

FCC Appendix RF Test Data for BT

FCC ID : 2BVWM-S30PRO

Company : SHARE3DCAM LIMITED

EUT : Real-Scene 3D LiDAR Scanner

Model Number : SHARE3DCAM S30 PRO

Report No. : CTA26040800501

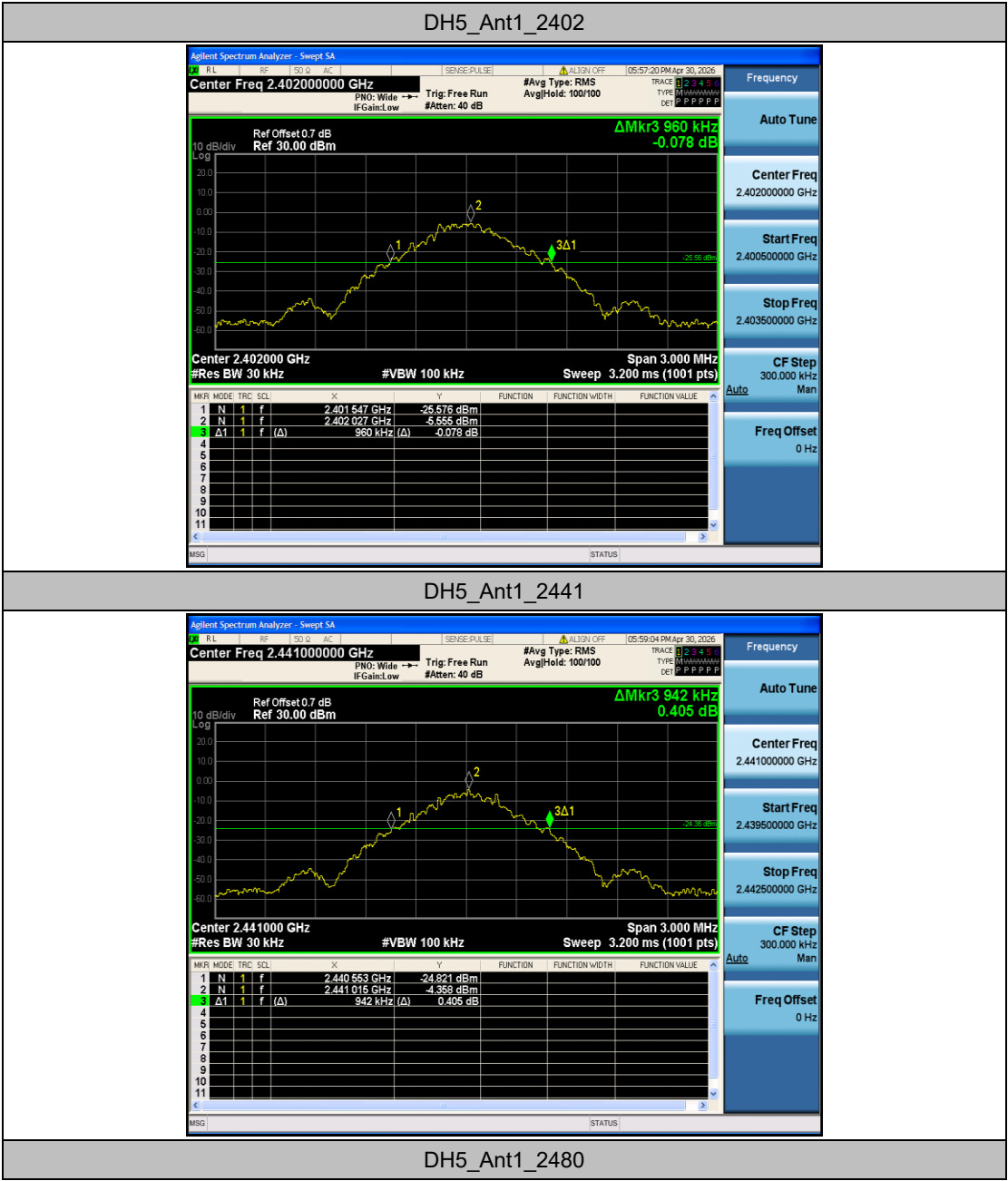
Reviewed By : Eric Wang

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.960	2401.547	2402.507	---	---
		2441	0.942	2440.553	2441.495	---	---
		2480	0.930	2479.550	2480.480	---	---
2DH5	Ant1	2402	1.335	2401.346	2402.681	---	---
		2441	1.359	2440.331	2441.690	---	---
		2480	1.332	2479.340	2480.672	---	---
3DH5	Ant1	2402	1.284	2401.367	2402.651	---	---
		2441	1.293	2440.367	2441.660	---	---
		2480	1.287	2479.367	2480.654	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

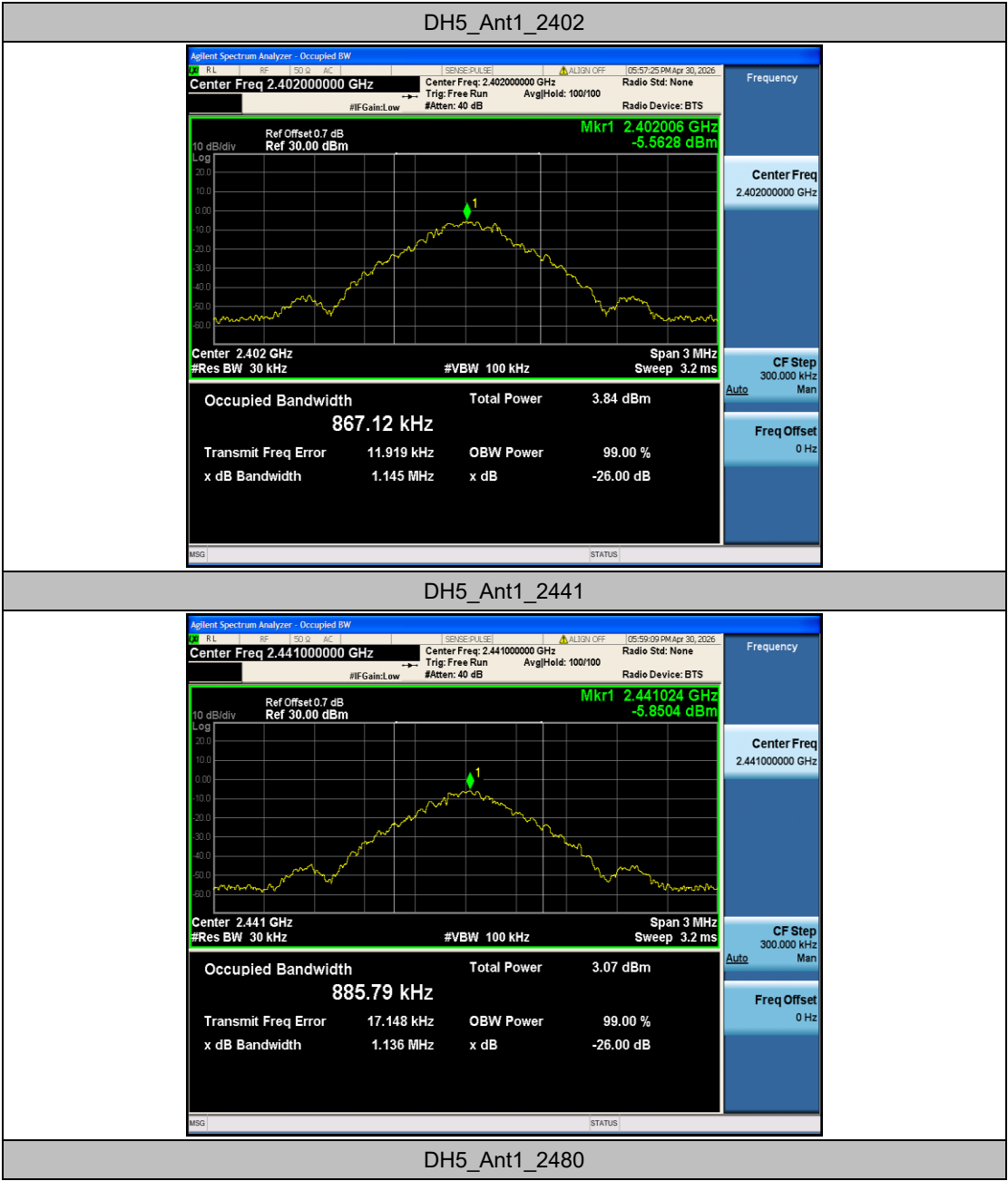


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86712	2401.5784	2402.4455	---	---
		2441	0.88579	2440.5743	2441.4600	---	---
		2480	0.86471	2479.5764	2480.4411	---	---
2DH5	Ant1	2402	1.1912	2401.4149	2402.6061	---	---
		2441	1.1886	2440.4163	2441.6049	---	---
		2480	1.1818	2479.4202	2480.6020	---	---
3DH5	Ant1	2402	1.1942	2401.4135	2402.6077	---	---
		2441	1.1866	2440.4204	2441.6070	---	---
		2480	1.1988	2479.4122	2480.6110	---	---

Test Graphs



DH5_Ant1_2441

Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.441000000 GHz

Center Freq: 2.441000000 GHz
Trig: Free Run
Avg/Hold: 100/100
Radio Std: None
Radio Device: BTS

Ref Offset 0.7 dB
Ref 30.00 dBm

10 dB/div
Log

Span 3 MHz
Sweep 3.2 ms

Occupied Bandwidth
885.79 kHz

Total Power
3.07 dBm

Transmit Freq Error
17.148 kHz

OBW Power
99.00 %

x dB Bandwidth
1.136 MHz

x dB
-26.00 dB

MSG

STATUS

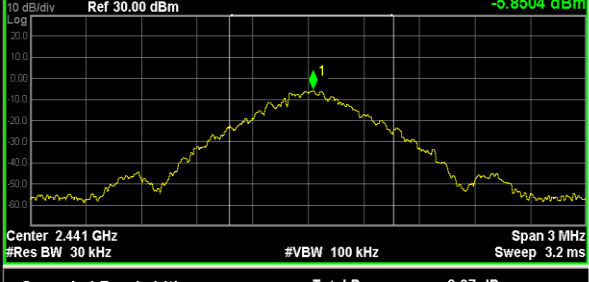
Frequency

Center Freq
2.441000000 GHz

CF Step
300.000 kHz
Man

Freq Offset
0 Hz

Mkr1 2.441024 GHz
-5.8504 dBm



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	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-2.63	≤20.97	PASS
		2441	-2.88	≤20.97	PASS
		2480	-2.95	≤20.97	PASS
2DH5	Ant1	2402	-3.40	≤20.97	PASS
		2441	-3.72	≤20.97	PASS
		2480	-3.87	≤20.97	PASS
3DH5	Ant1	2402	-3.18	≤20.97	PASS
		2441	-3.43	≤20.97	PASS
		2480	-3.48	≤20.97	PASS

Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.956	≥ 0.640	PASS
2DH5	Ant1	Hop	1.106	≥ 0.906	PASS
3DH5	Ant1	Hop	0.944	≥ 0.862	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



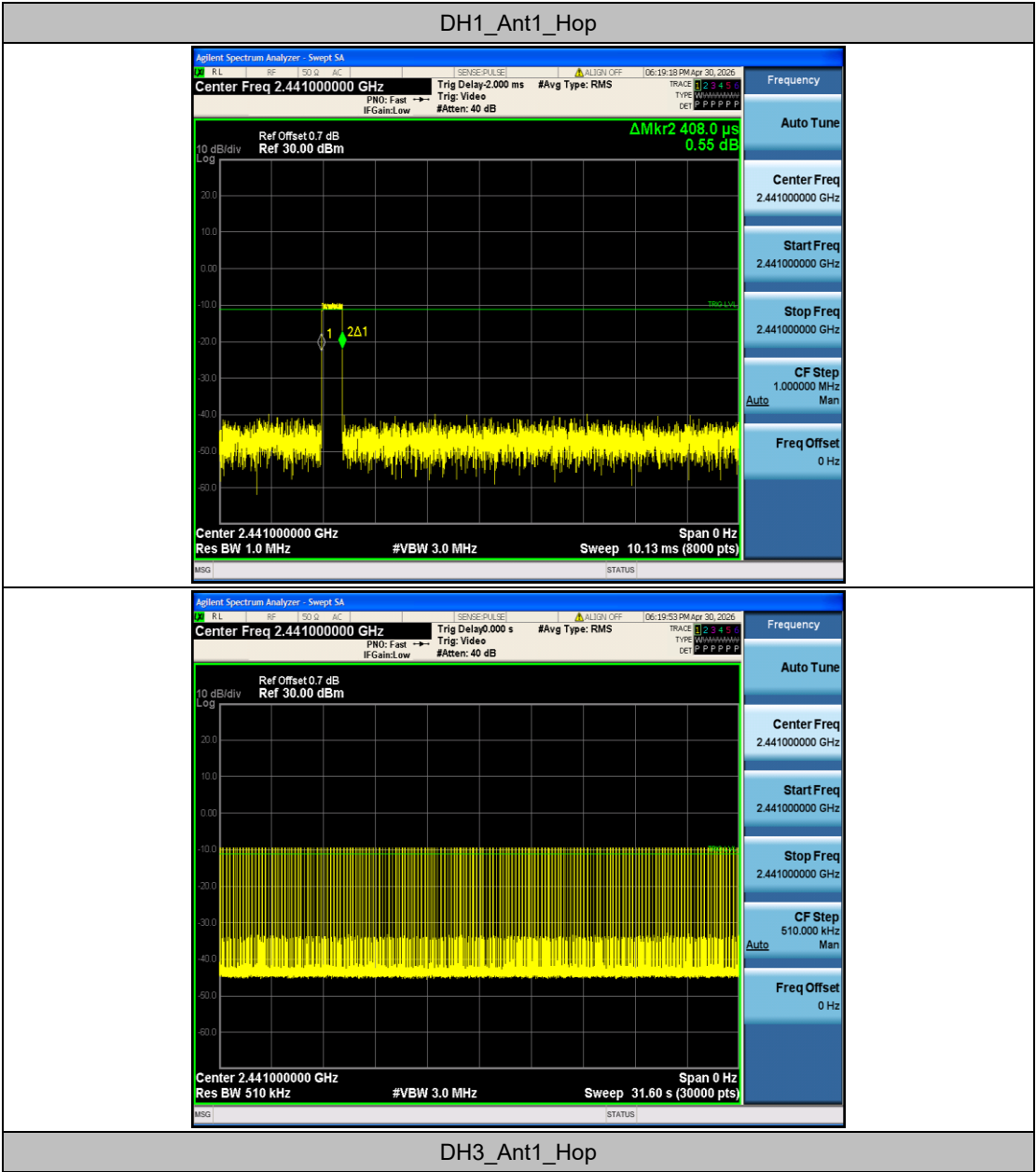
3DH5_Ant1_Hop

Appendix E: Time of occupancy

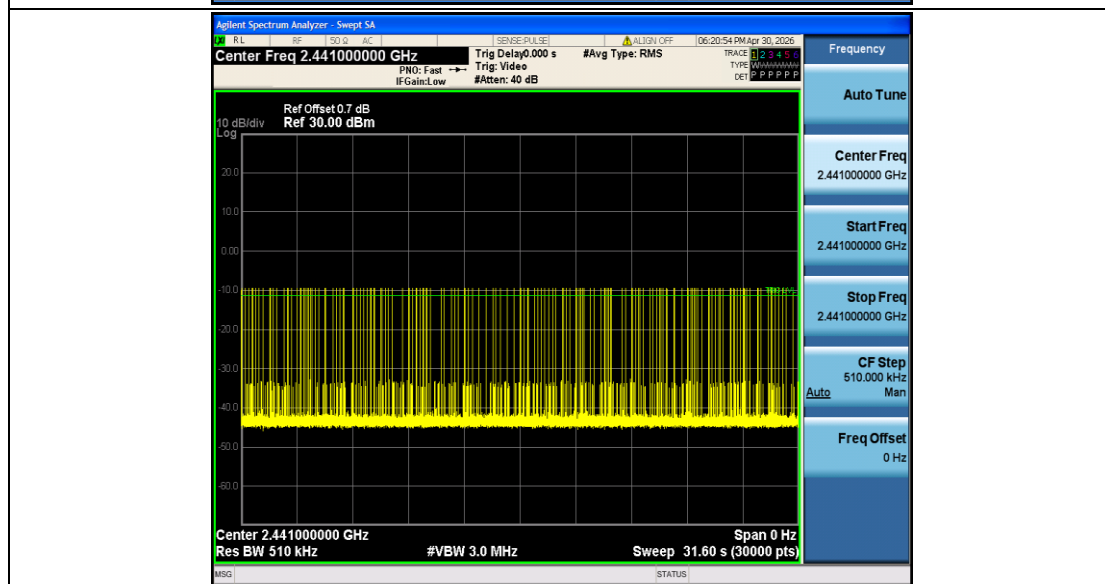
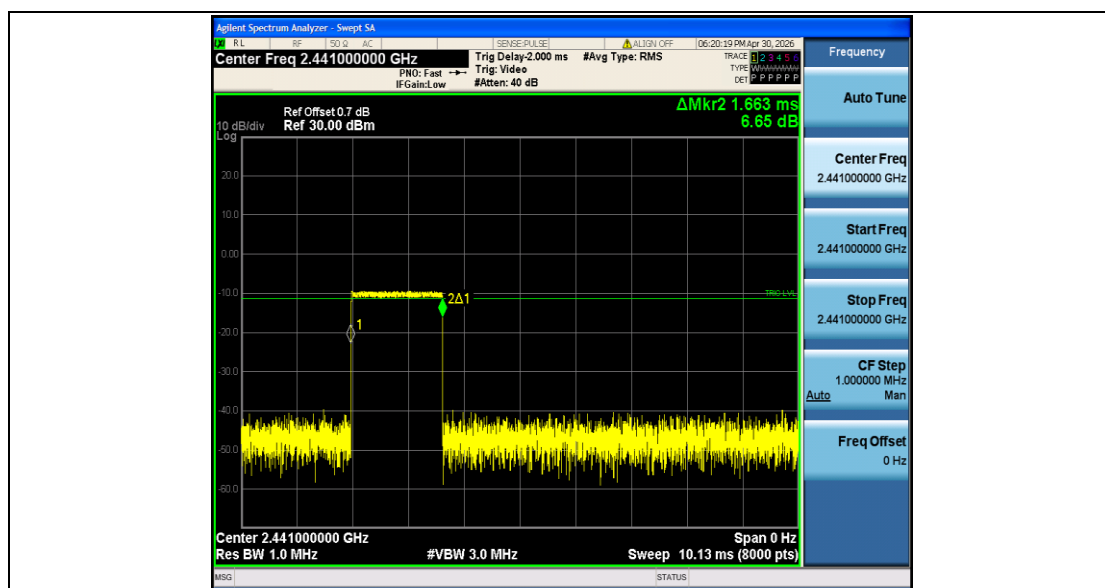
Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.408	319	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.663	164	0.273	≤0.4	PASS
DH5	Ant1	Hop	2.912	106	0.309	≤0.4	PASS
2DH1	Ant1	Hop	0.418	316	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.668	151	0.252	≤0.4	PASS
2DH5	Ant1	Hop	2.916	110	0.321	≤0.4	PASS
3DH1	Ant1	Hop	0.415	318	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.664	157	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.918	105	0.306	≤0.4	PASS

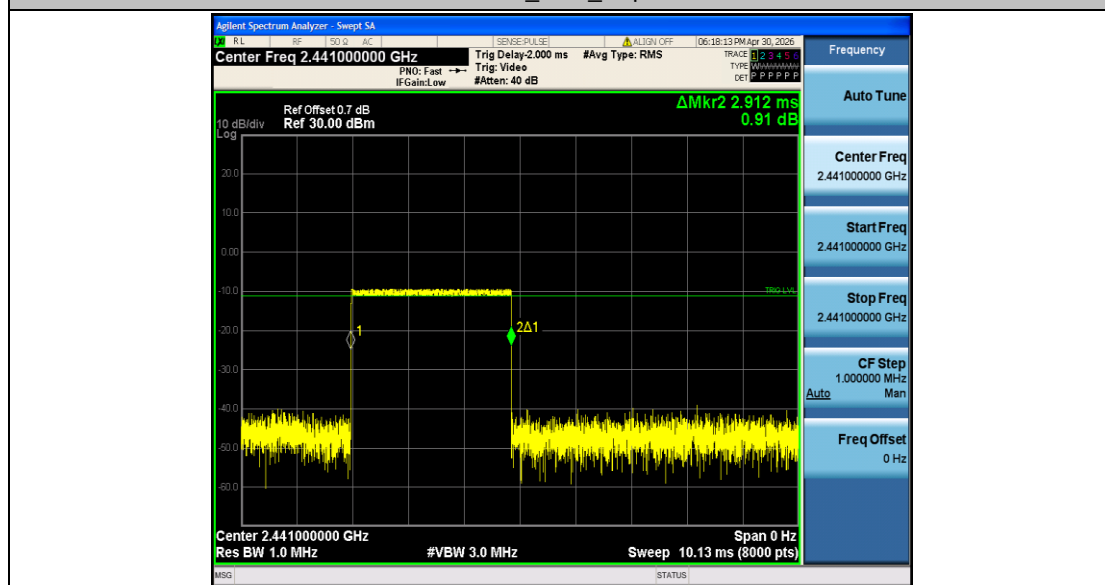
Test Graphs

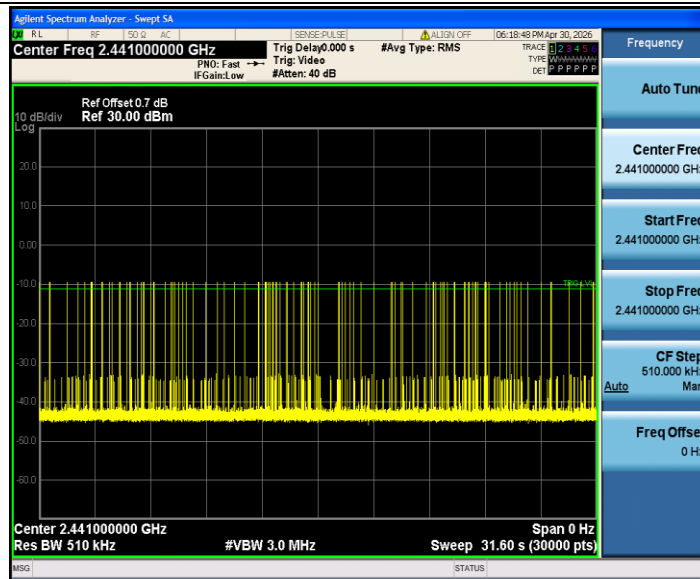


DH3_Ant1_Hop

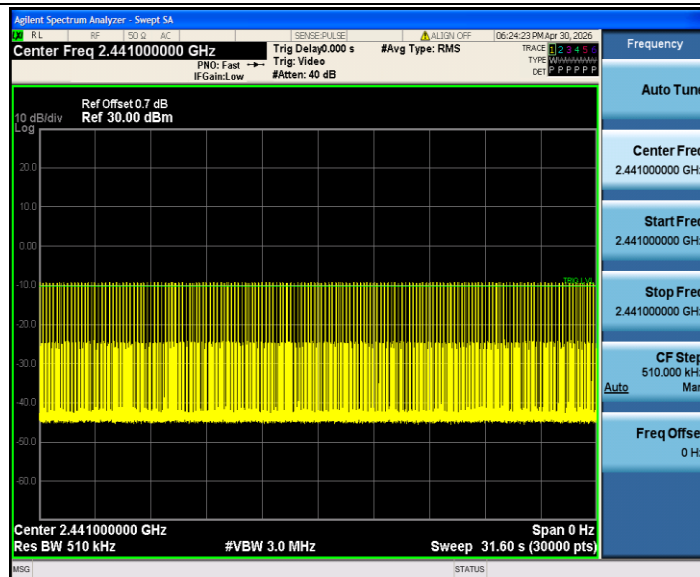
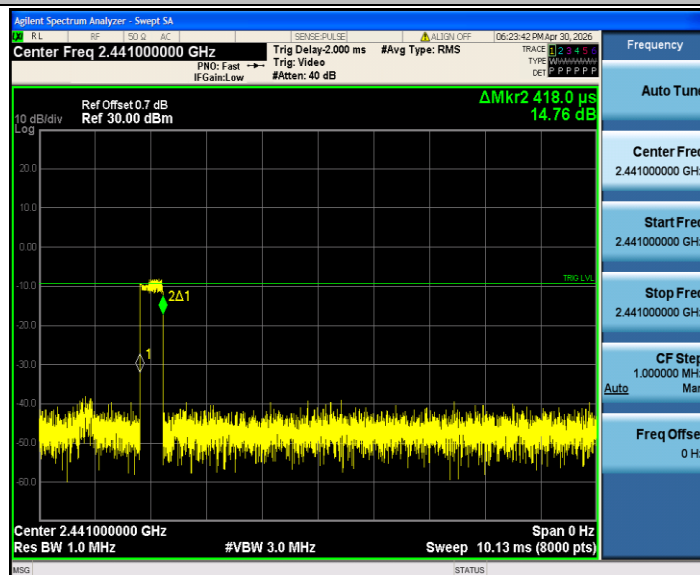


DH5_Ant1_Hop

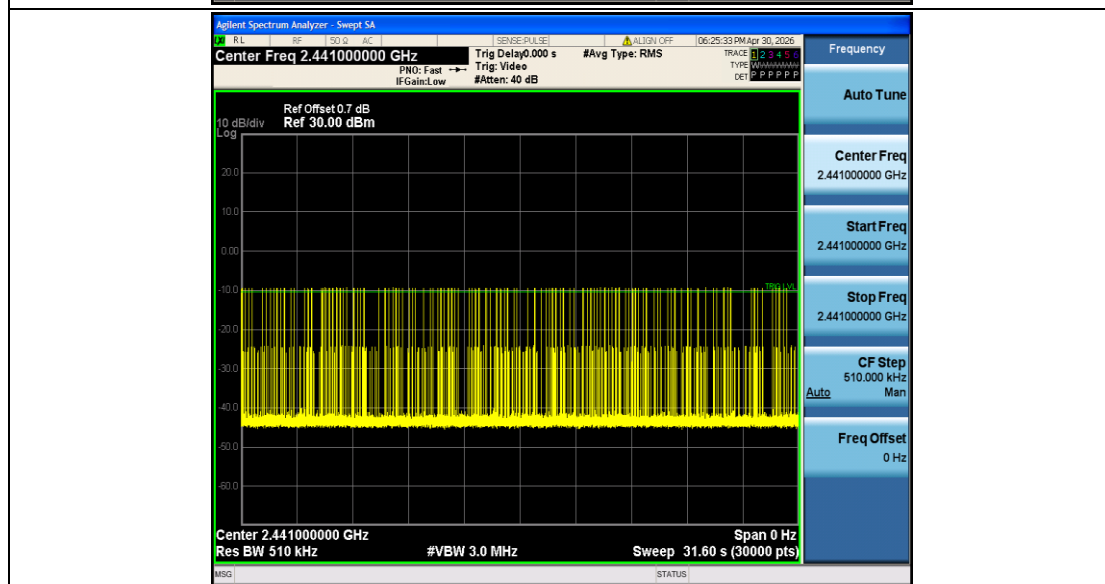
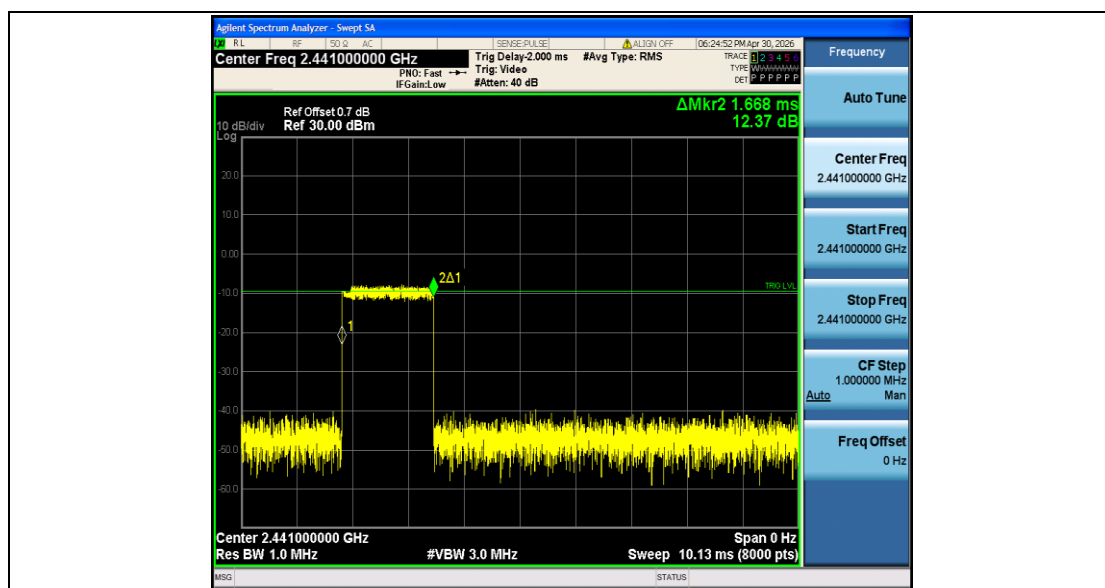




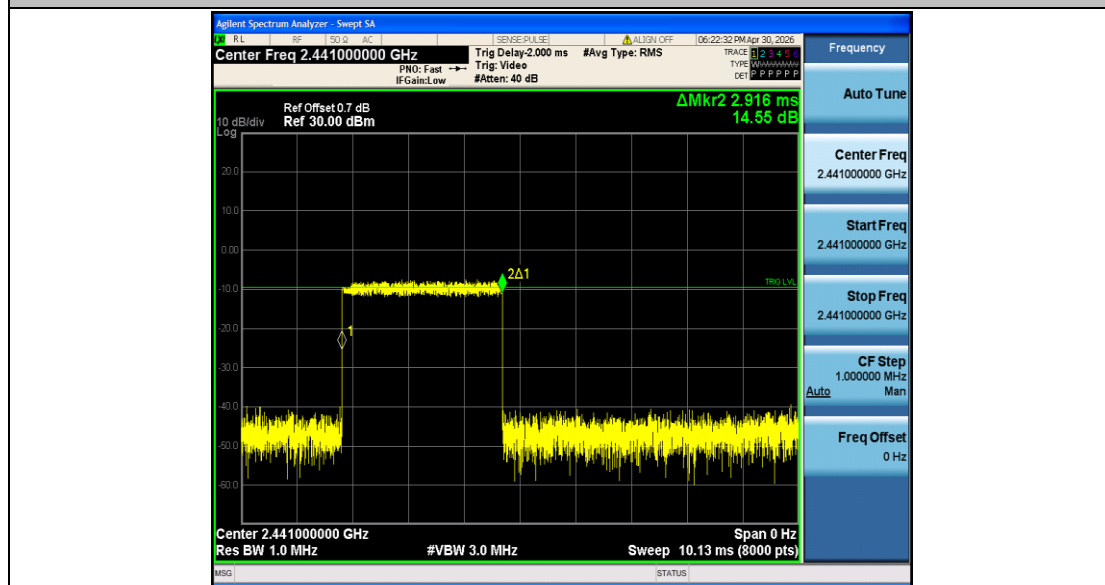
2DH1_Ant1_Hop

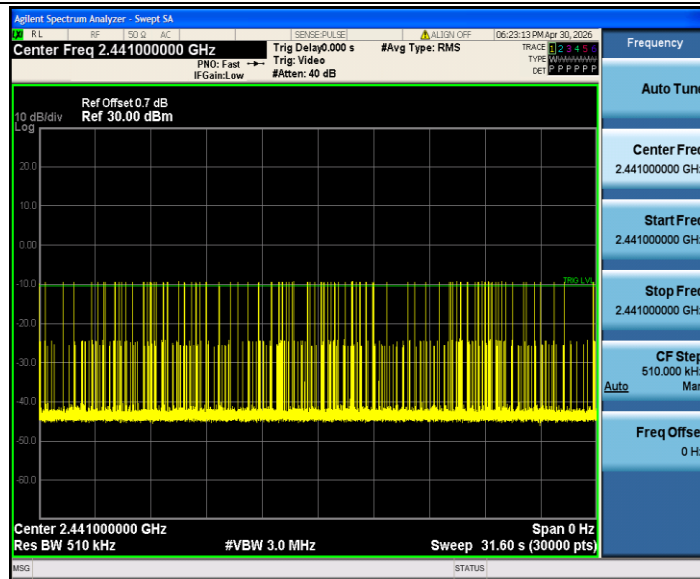


2DH3_Ant1_Hop

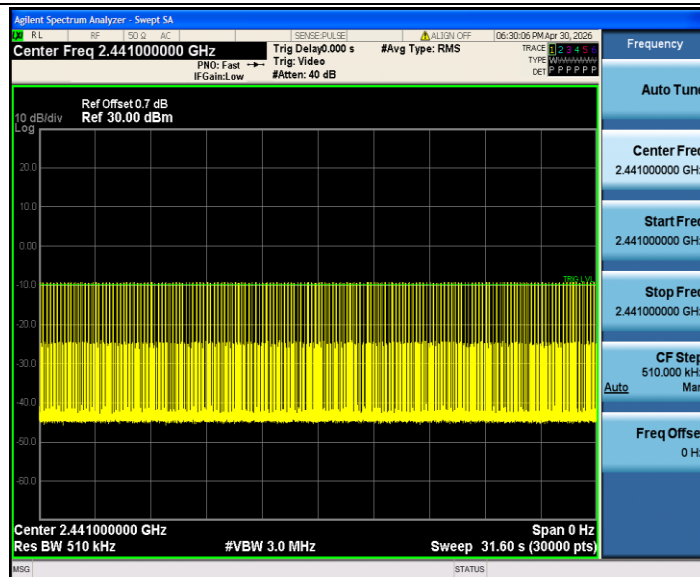
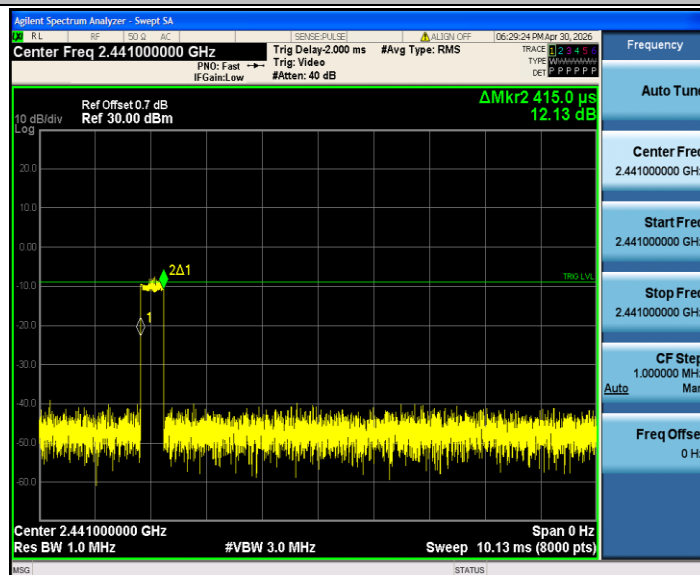


2DH5_Ant1_Hop

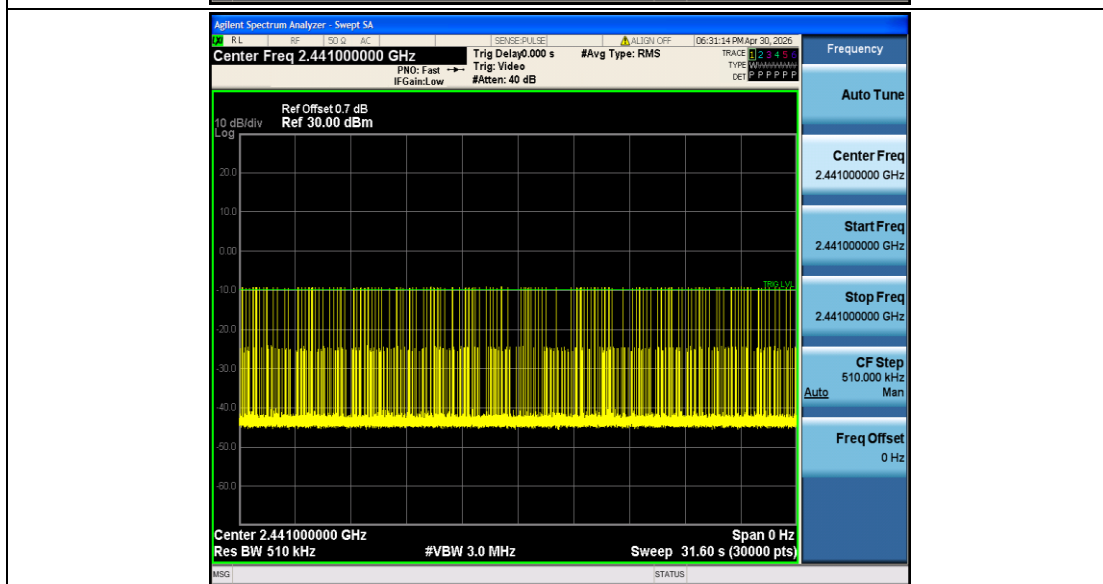
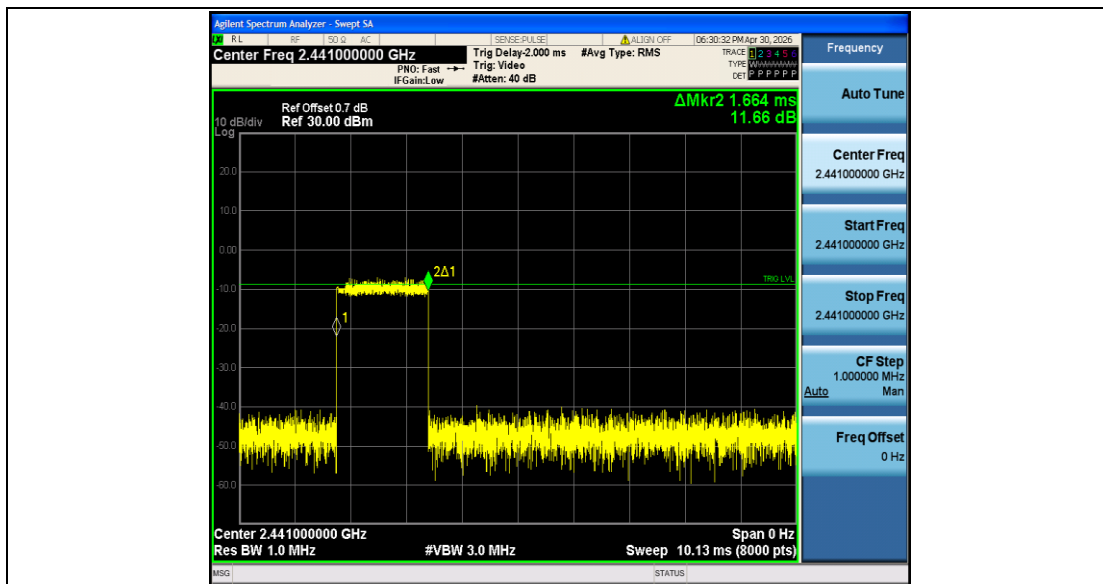




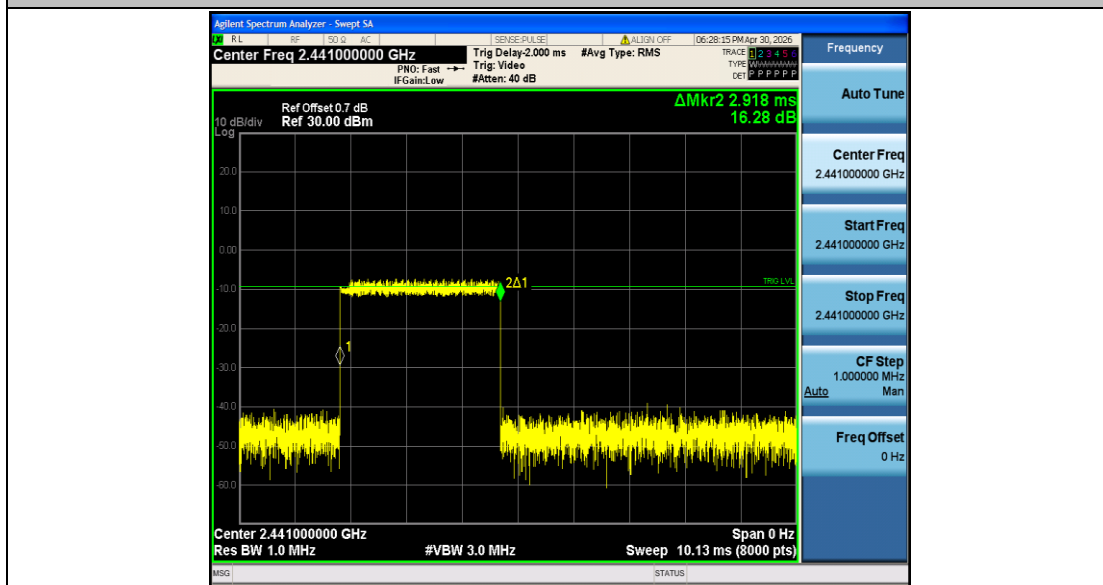
3DH1_Ant1_Hop

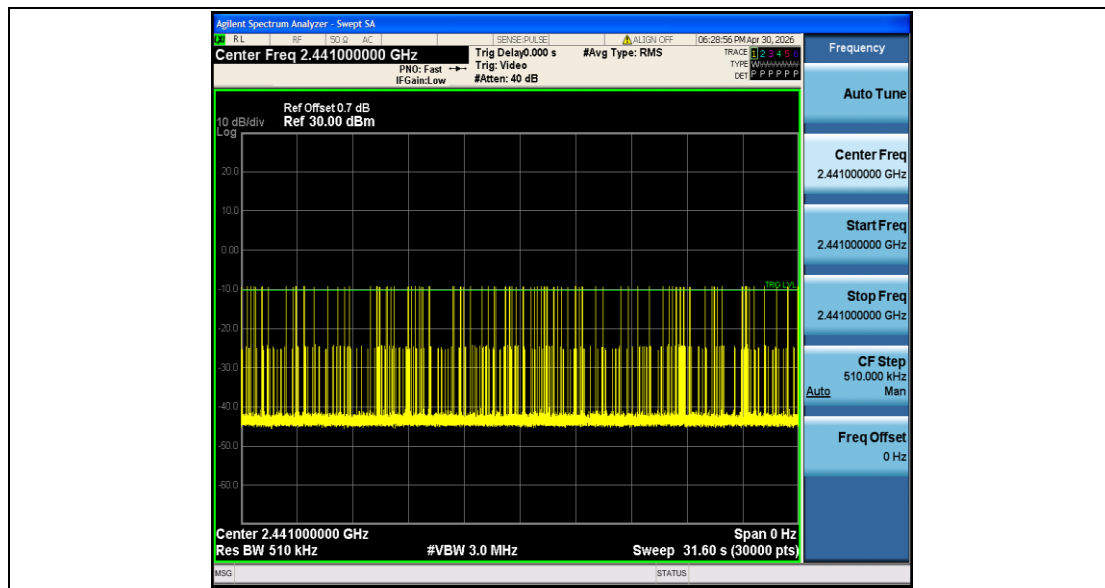


3DH3_Ant1_Hop



3DH5_Ant1_Hop



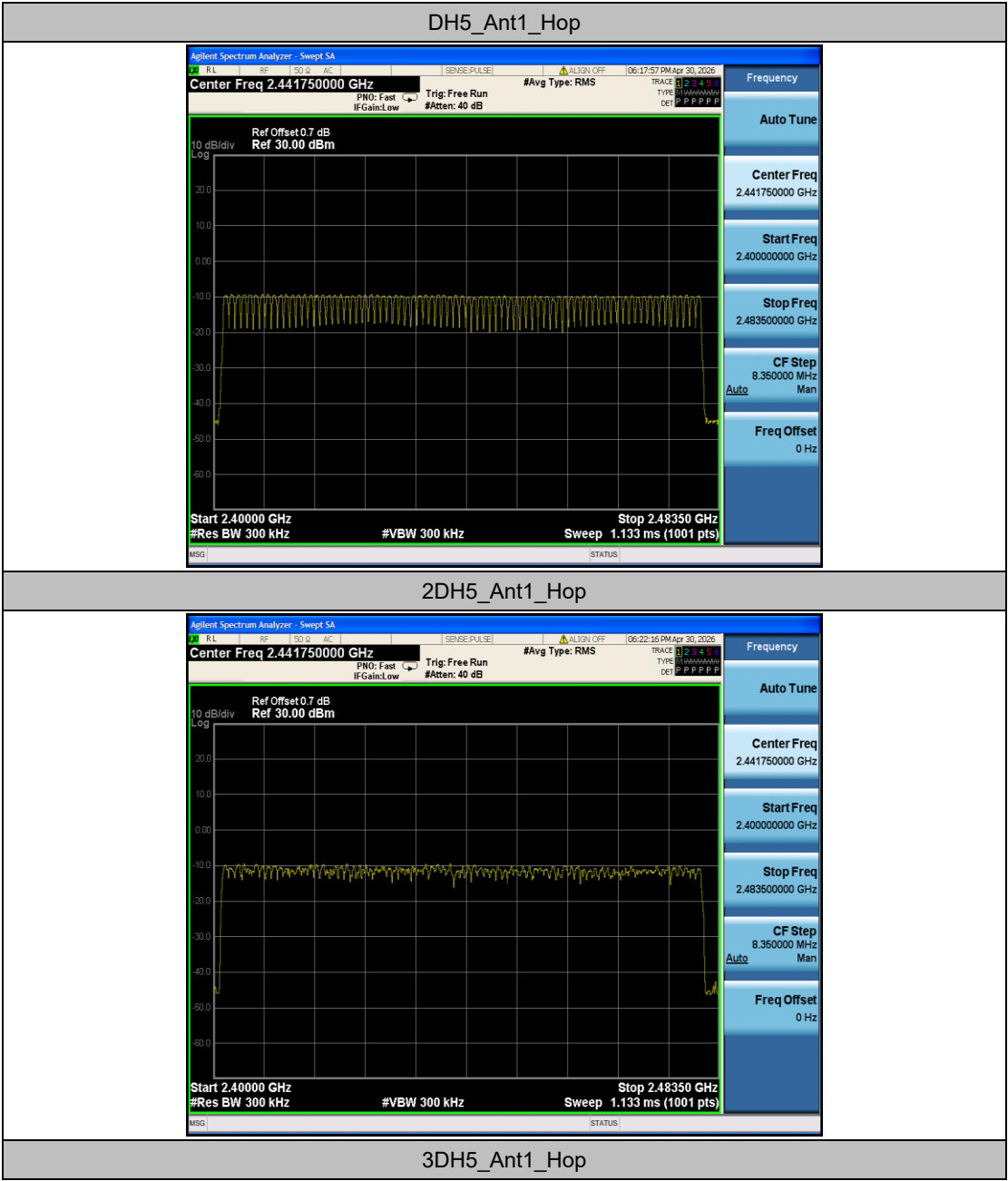


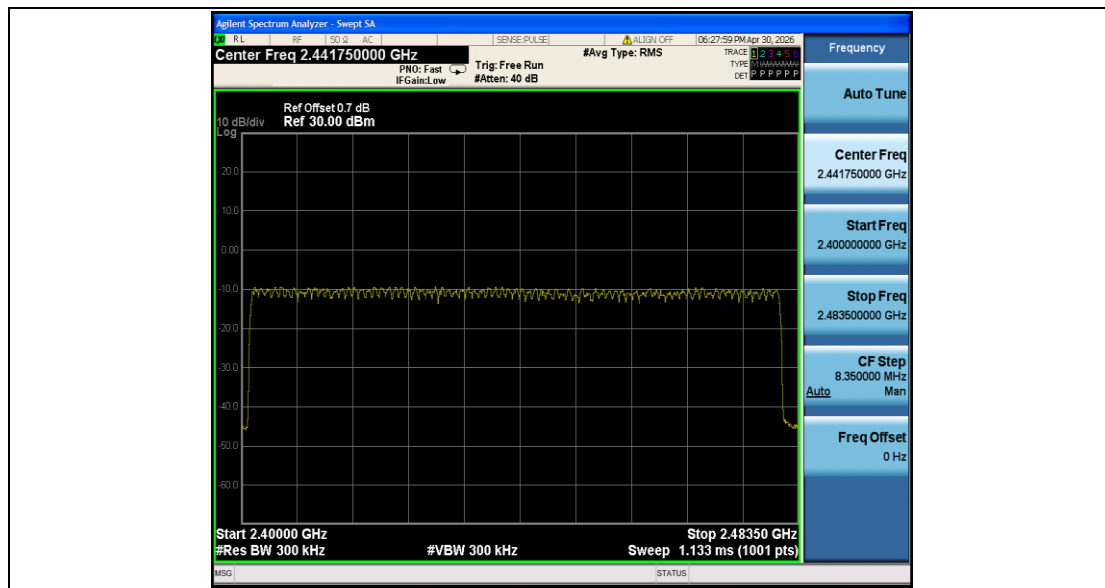
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	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



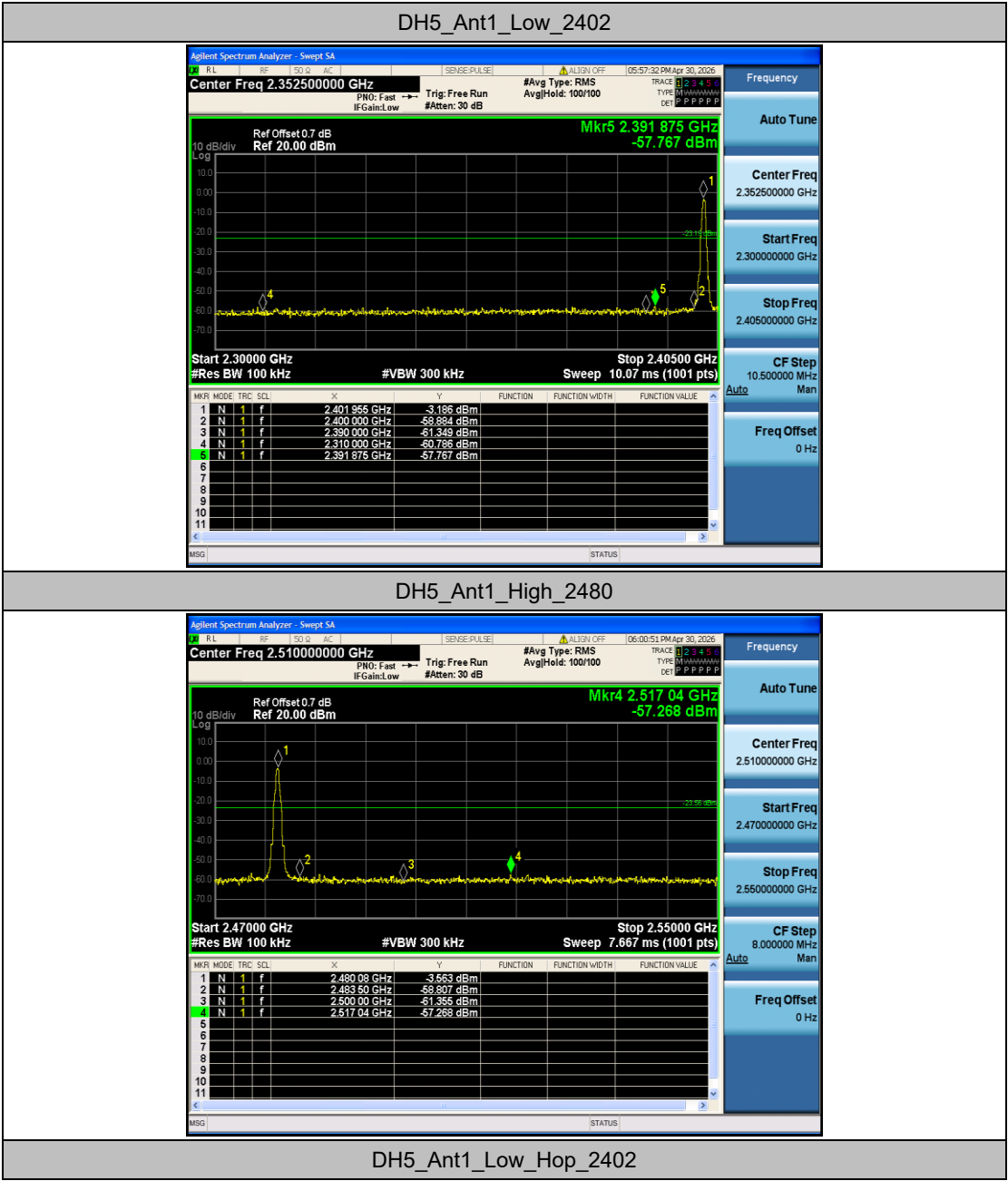


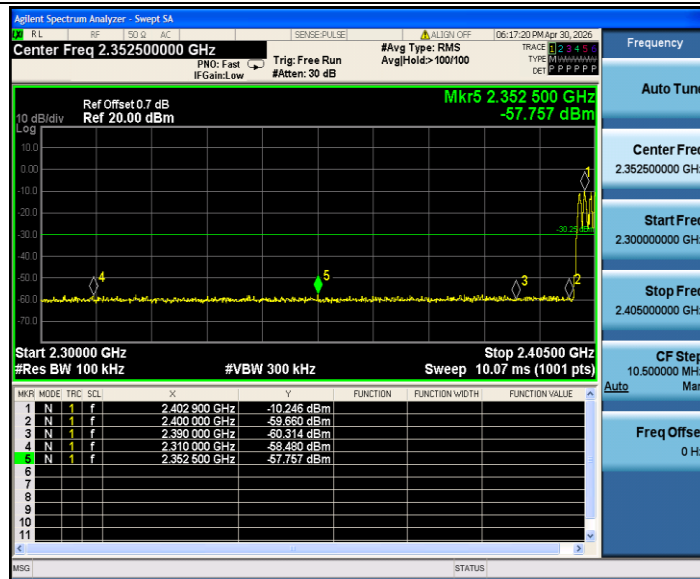
Appendix G: Band edge measurements

Test Result

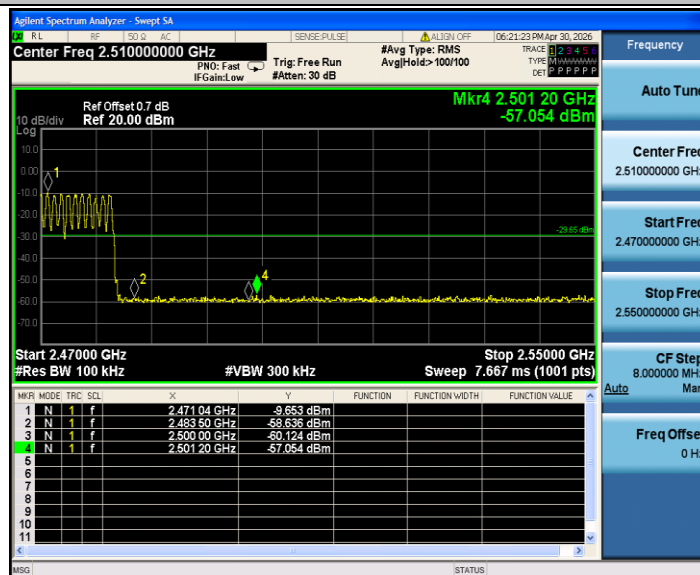
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.19	-57.77	≤ -23.19	PASS
		High	2480	-3.56	-57.27	≤ -23.56	PASS
		Low	Hop_2402	-10.25	-57.76	≤ -30.25	PASS
		High	Hop_2480	-9.65	-57.05	≤ -29.65	PASS
2DH5	Ant1	Low	2402	-6.02	-57.53	≤ -26.02	PASS
		High	2480	-7.40	-57.49	≤ -27.4	PASS
		Low	Hop_2402	-13.32	-57.42	≤ -33.32	PASS
		High	Hop_2480	-12.62	-57.25	≤ -32.62	PASS
3DH5	Ant1	Low	2402	-8.81	-57.29	≤ -28.81	PASS
		High	2480	-6.79	-57.21	≤ -26.79	PASS
		Low	Hop_2402	-10.89	-57.44	≤ -30.89	PASS
		High	Hop_2480	-11.02	-56.87	≤ -31.02	PASS

Test Graphs

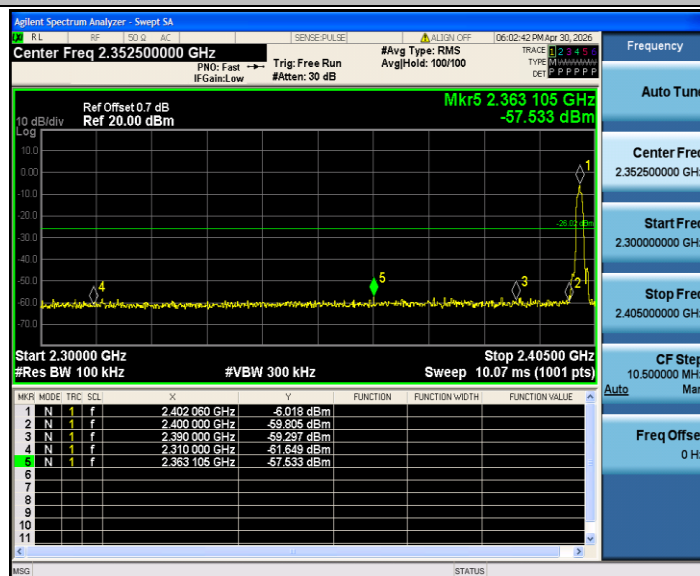




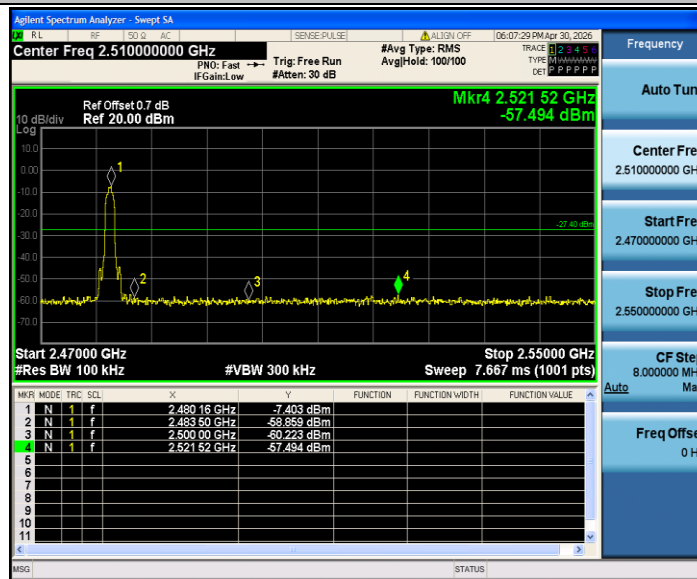
DH5_Ant1_High_Hop_2480



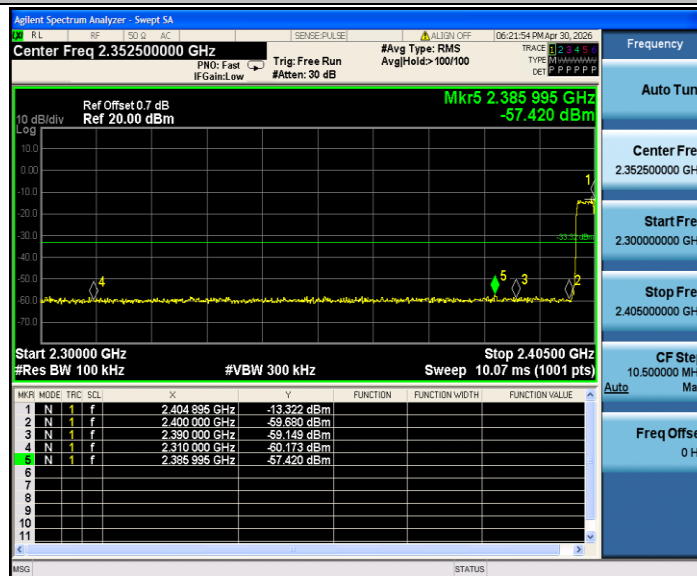
2DH5_Ant1_Low_2402



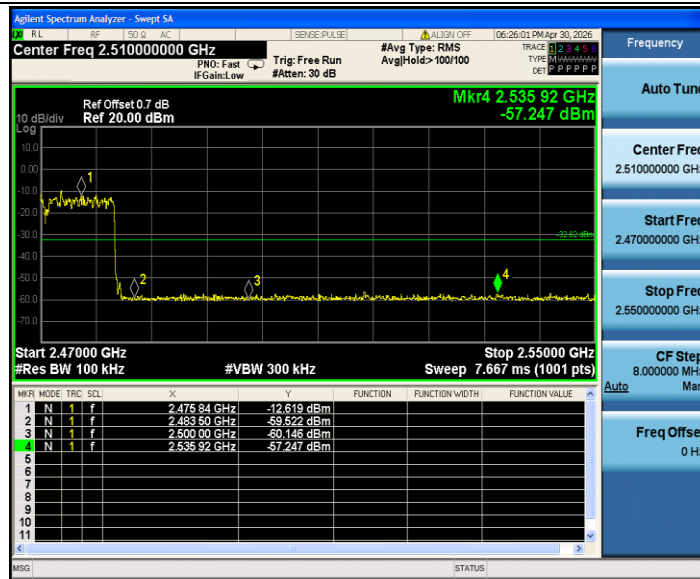
2DH5_Ant1_High_2480



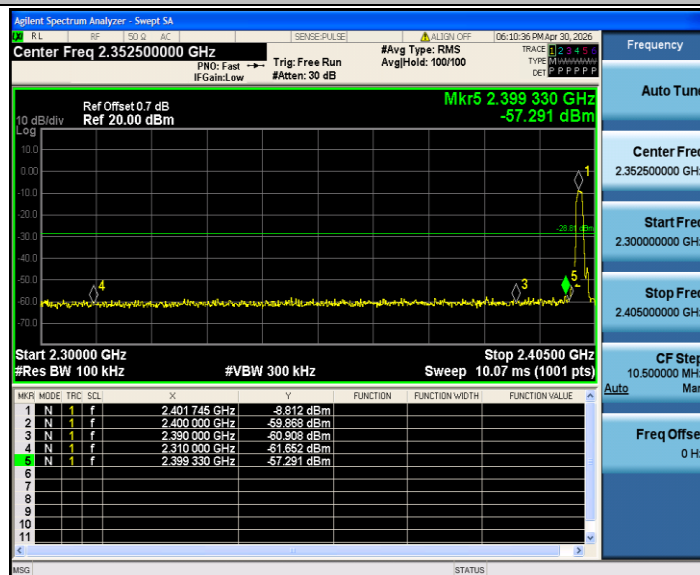
2DH5_Ant1_Low_Hop_2402



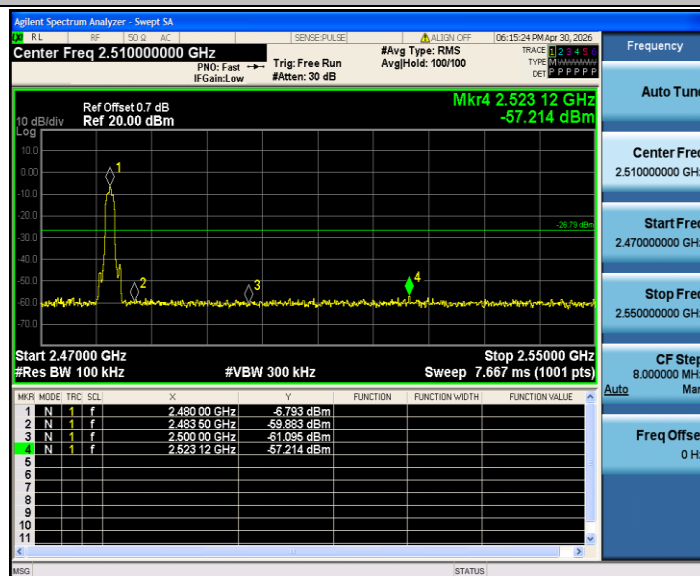
2DH5_Ant1_High_Hop_2480



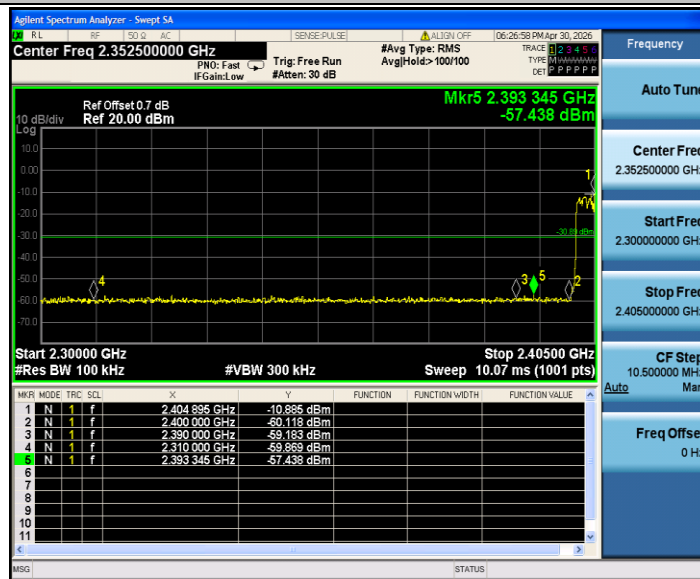
3DH5_Ant1_Low_2402



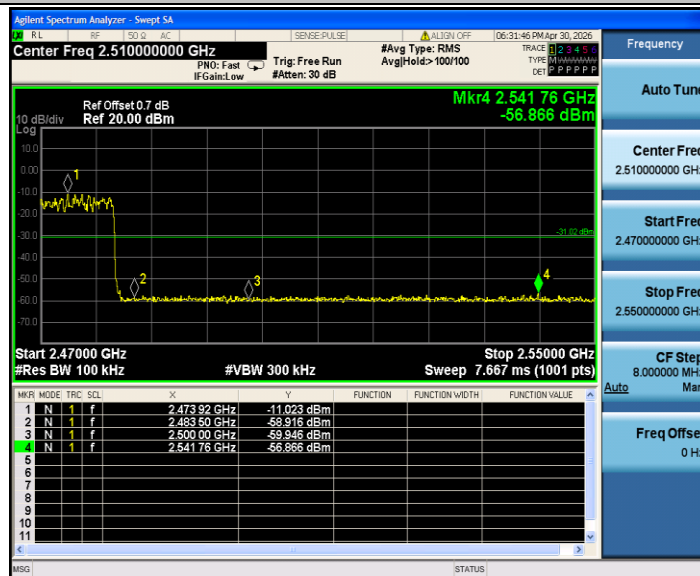
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



Appendix H: Conducted Spurious Emission

Test Result

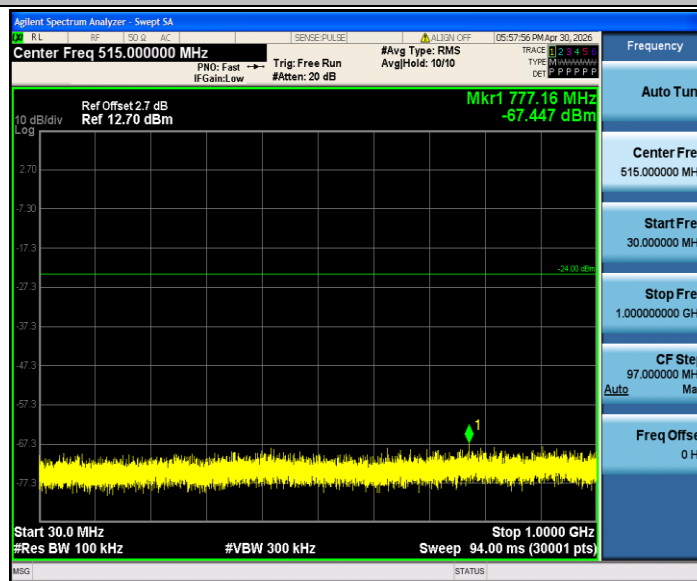
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-4.00	-4.00	---	PASS
			30~1000	-4.00	-67.45	≤-24	PASS
			1000~26500	-4.00	-46.67	≤-24	PASS
		2441	Reference	-3.95	-3.95	---	PASS
			30~1000	-3.95	-68.07	≤-23.95	PASS
			1000~26500	-3.95	-47.38	≤-23.95	PASS
		2480	Reference	-3.59	-3.59	---	PASS
			30~1000	-3.59	-68.17	≤-23.59	PASS
			1000~26500	-3.59	-47.04	≤-23.59	PASS
2DH5	Ant1	2402	Reference	-7.21	-7.21	---	PASS
			30~1000	-7.21	-68	≤-27.21	PASS
			1000~26500	-7.21	-52.84	≤-27.21	PASS
		2441	Reference	-8.61	-8.61	---	PASS
			30~1000	-8.61	-67.51	≤-28.61	PASS
			1000~26500	-8.61	-52.91	≤-28.61	PASS
		2480	Reference	-7.85	-7.85	---	PASS
			30~1000	-7.85	-67.8	≤-27.85	PASS
			1000~26500	-7.85	-53.85	≤-27.85	PASS
3DH5	Ant1	2402	Reference	-7.16	-7.16	---	PASS
			30~1000	-7.16	-67.81	≤-27.16	PASS
			1000~26500	-7.16	-52.42	≤-27.16	PASS
		2441	Reference	-7.71	-7.71	---	PASS
			30~1000	-7.71	-66.79	≤-27.71	PASS
			1000~26500	-7.71	-53.39	≤-27.71	PASS
		2480	Reference	-9.39	-9.39	---	PASS
			30~1000	-9.39	-68.25	≤-29.39	PASS
			1000~26500	-9.39	-53.98	≤-29.39	PASS

Test Graphs

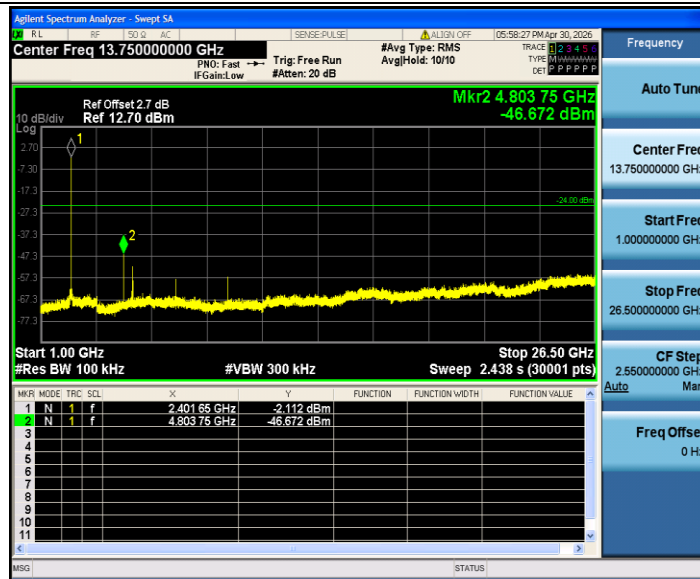
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



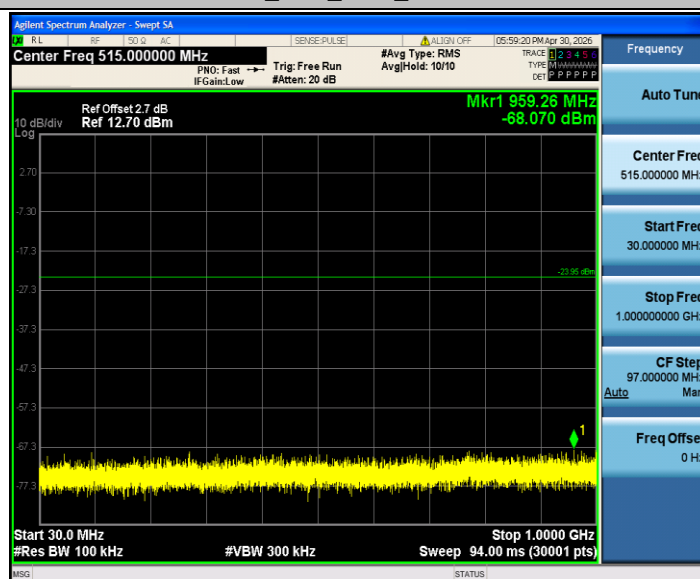
DH5_Ant1_2402_1000~26500



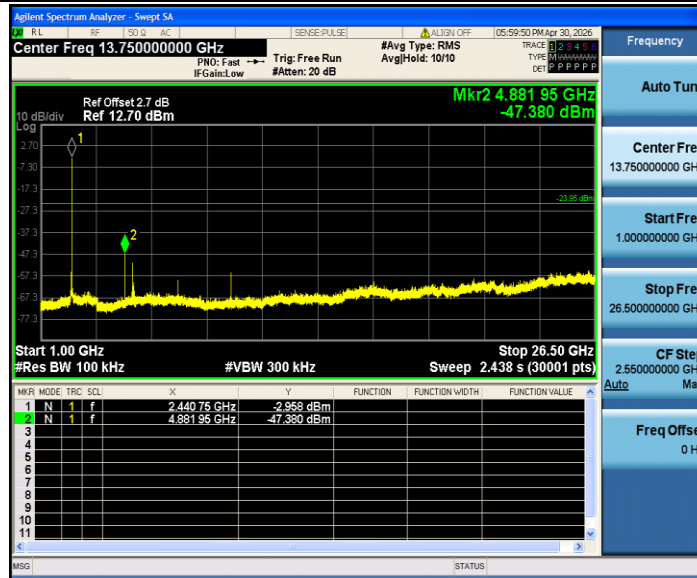
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



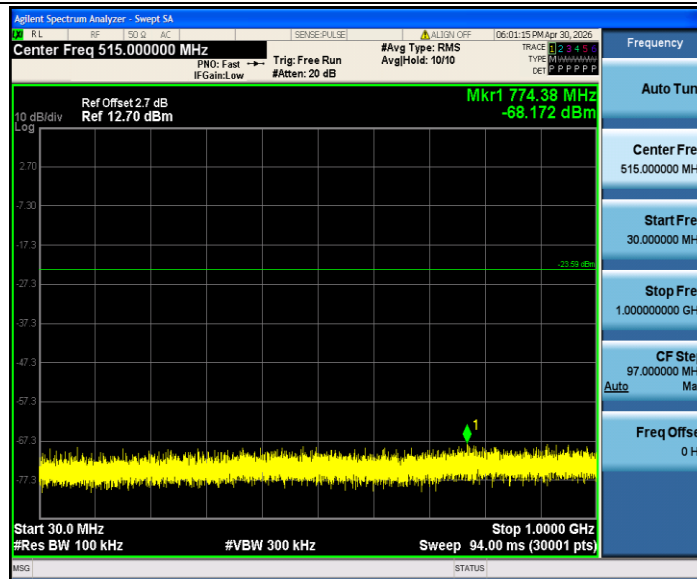
DH5_Ant1_2441_1000~26500



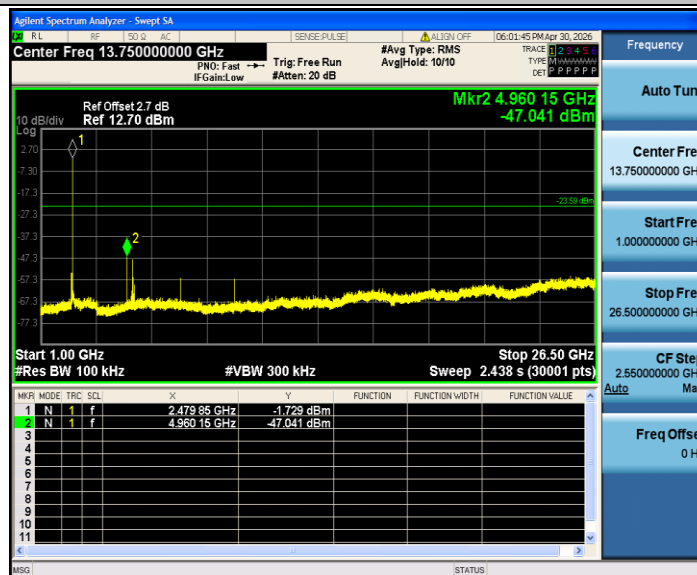
DH5_Ant1_2480_0~Reference



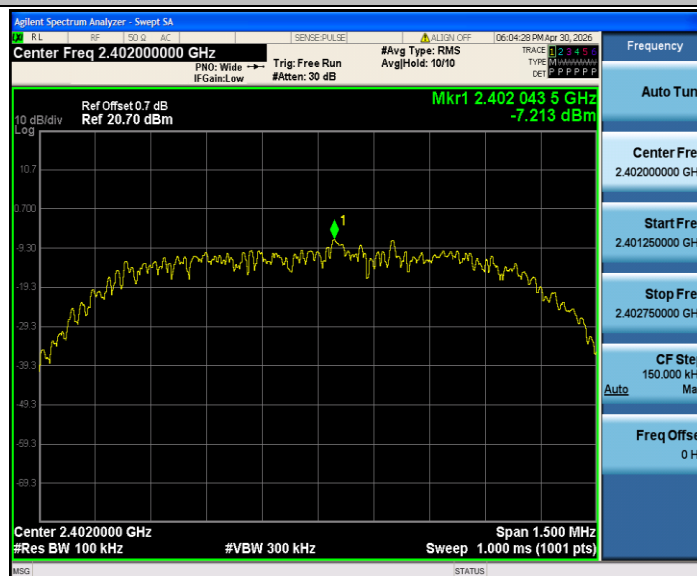
DH5_Ant1_2480_30~1000



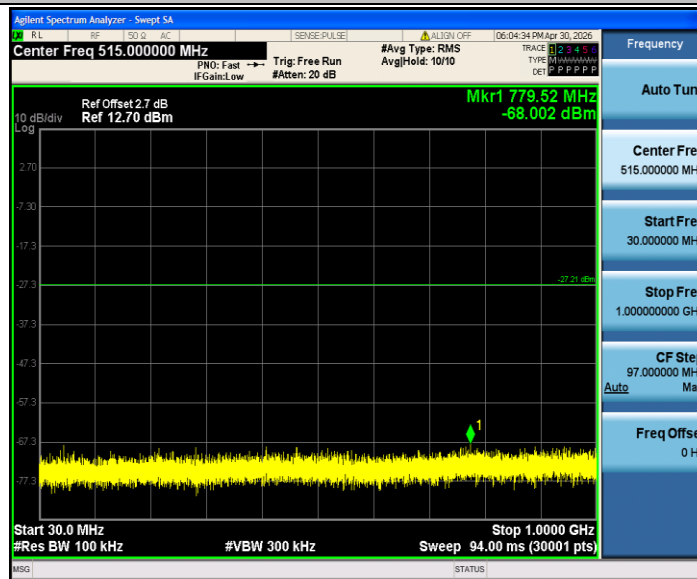
DH5_Ant1_2480_1000~26500



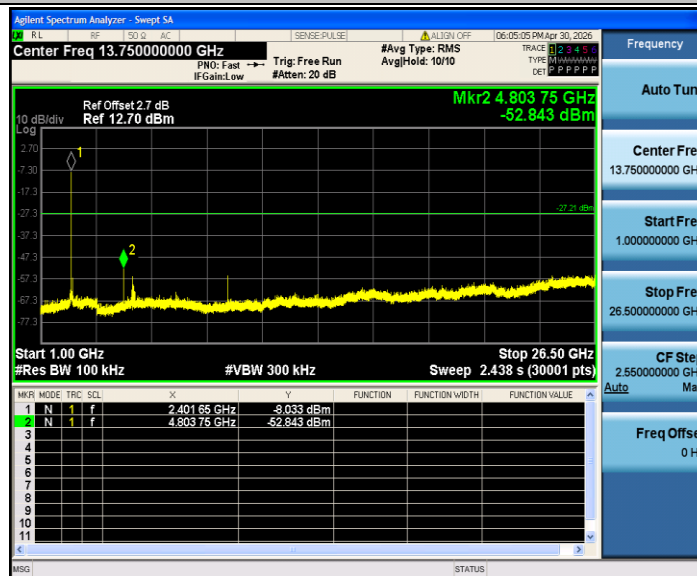
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference