

APPENDIX A:BT

20DB EMISSION BANDWIDTH TEST RESULT

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant8	2402	0.945	2401.538	2402.483	---	---
		2441	0.948	2440.535	2441.483	---	---
		2480	0.933	2479.547	2480.480	---	---
2DH5	Ant8	2402	1.308	2401.346	2402.654	---	---
		2441	1.317	2440.337	2441.654	---	---
		2480	1.323	2479.331	2480.654	---	---
3DH5	Ant8	2402	1.332	2401.331	2402.663	---	---
		2441	1.329	2440.334	2441.663	---	---
		2480	1.320	2479.340	2480.660	---	---

TEST GRAPHS







2DH5_Ant8_2480



3DH5_Ant8_2402



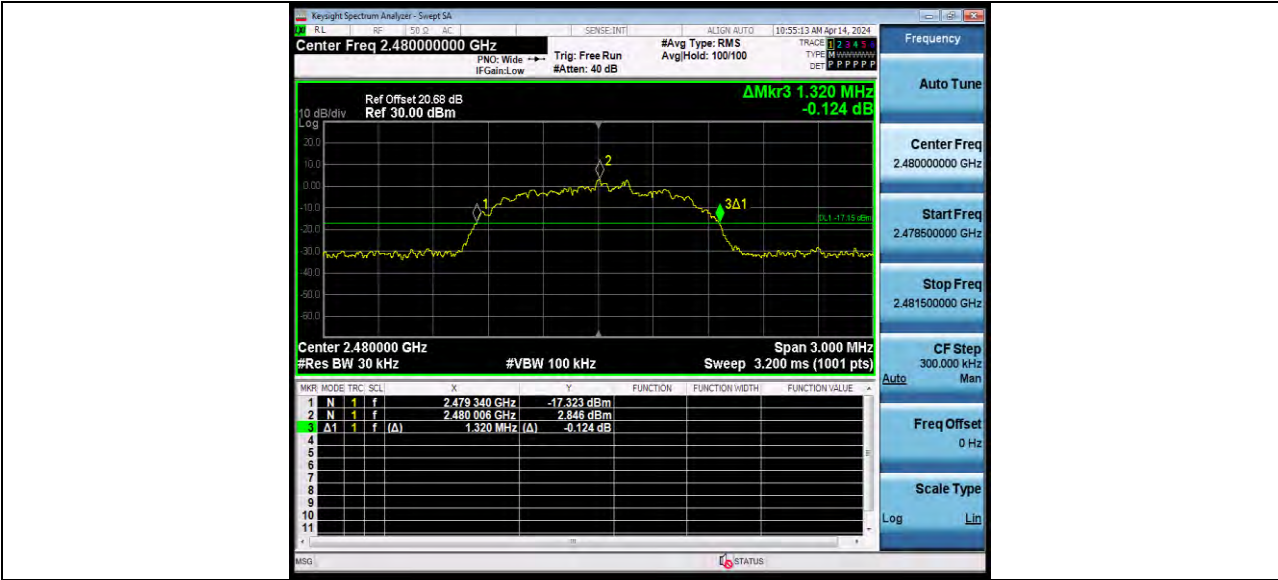
3DH5_Ant8_2441



3DH5_Ant8_2480



Reference No.: W7L-P24090003RF01

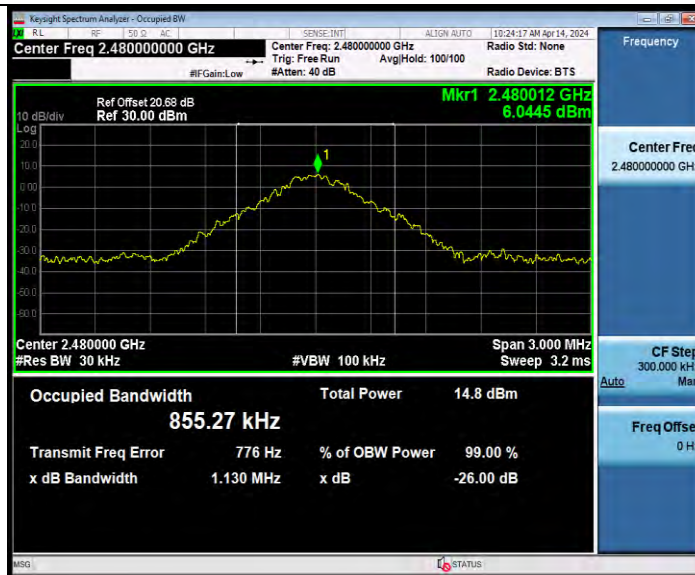


OCCUPIED CHANNEL BANDWIDTH TEST RESULT

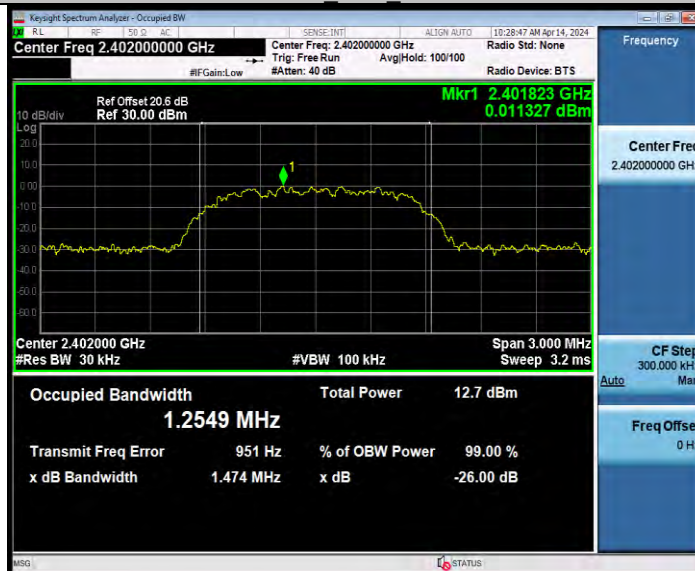
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant8	2402	0.88631	2401.5556	2402.4420	---	---
		2441	0.87179	2440.5662	2441.4380	---	---
		2480	0.85527	2479.5731	2480.4284	---	---
2DH5	Ant8	2402	1.2549	2401.3735	2402.6284	---	---
		2441	1.2276	2440.3843	2441.6119	---	---
		2480	1.2273	2479.3850	2480.6123	---	---
3DH5	Ant8	2402	1.2257	2401.3792	2402.6049	---	---
		2441	1.2314	2440.3762	2441.6076	---	---
		2480	1.2207	2479.3800	2480.6007	---	---

TEST GRAPHS



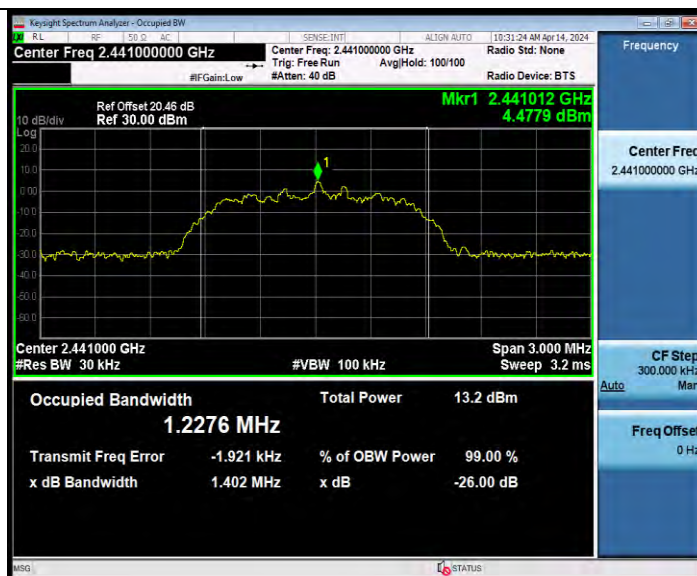


2DH5_Ant8_2402

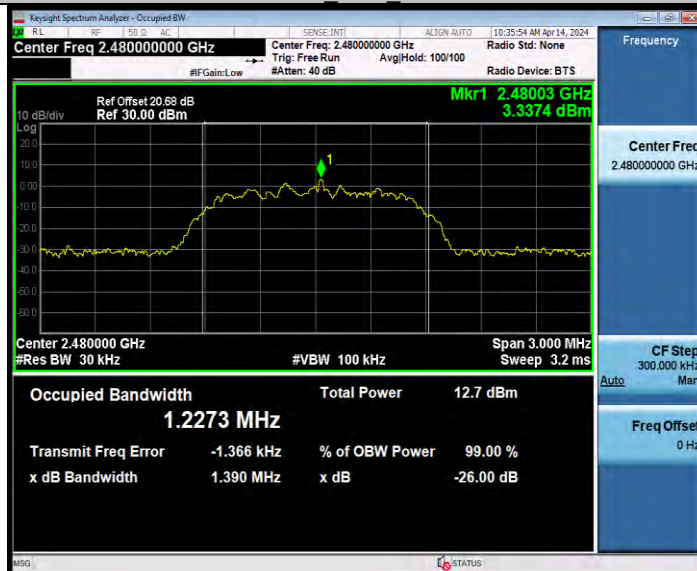


2DH5_Ant8_2441

Reference No.: W7L-P24090003RF01



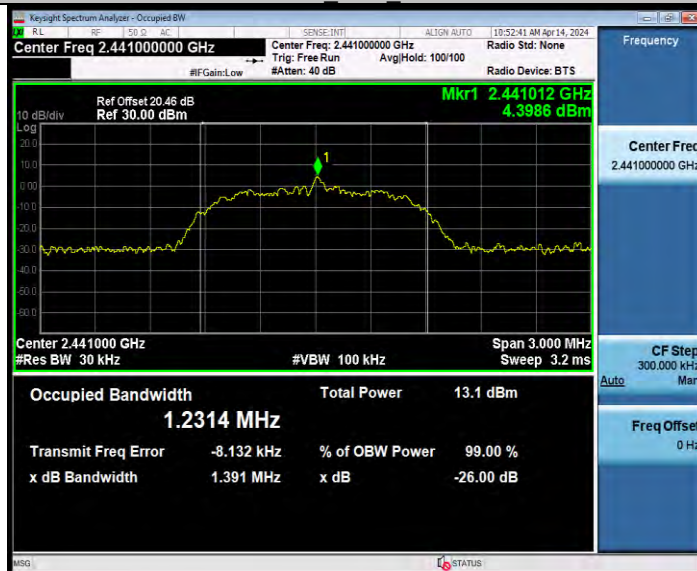
2DH5_Ant8_2480



3DH5_Ant8_2402



3DH5_Ant8_2441



3DH5_Ant8_2480



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Reference No.: W7L-P24090003RF01



MAXIMUM CONDUCTED OUTPUT POWER TEST RESULT

TestMode	Antenna	Frequency [MHz]	Average power [dBm]	Peak Power [dBm]	Peak power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdict	Power Setting
DH5	Ant8	2402	7.34	7.35	5.43	≤20.97	7.75	5.96	≤36.00	PASS	Default
		2441	7.49	7.5	5.62	≤20.97	7.9	6.17	≤36.00	PASS	Default
		2480	7.39	7.41	5.51	≤20.97	7.81	6.04	≤36.00	PASS	Default
2DH5	Ant8	2402	5.48	7.19	5.24	≤20.97	7.59	5.74	≤36.00	PASS	Default
		2441	5.59	7.25	5.31	≤20.97	7.65	5.82	≤36.00	PASS	Default
		2480	5.32	7.16	5.20	≤20.97	7.56	5.70	≤36.00	PASS	Default
3DH5	Ant8	2402	5.49	7.22	5.27	≤20.97	7.62	5.78	≤36.00	PASS	Default
		2441	5.56	7.39	5.48	≤20.97	7.79	6.01	≤36.00	PASS	Default
		2480	5.29	7.28	5.35	≤20.97	7.68	5.86	≤36.00	PASS	Default

Note:EIRP=Peak Power+Gain

CARRIER FREQUENCY SEPARATION TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant8	Hop	1.014	≥0.948	PASS
2DH5	Ant8	Hop	1.336	≥1.323	PASS
3DH5	Ant8	Hop	1.03	≥0.888	PASS

TEST GRAPHS





Reference No.: W7L-P24090003RF01





Reference No.: W7L-P24090003RF01

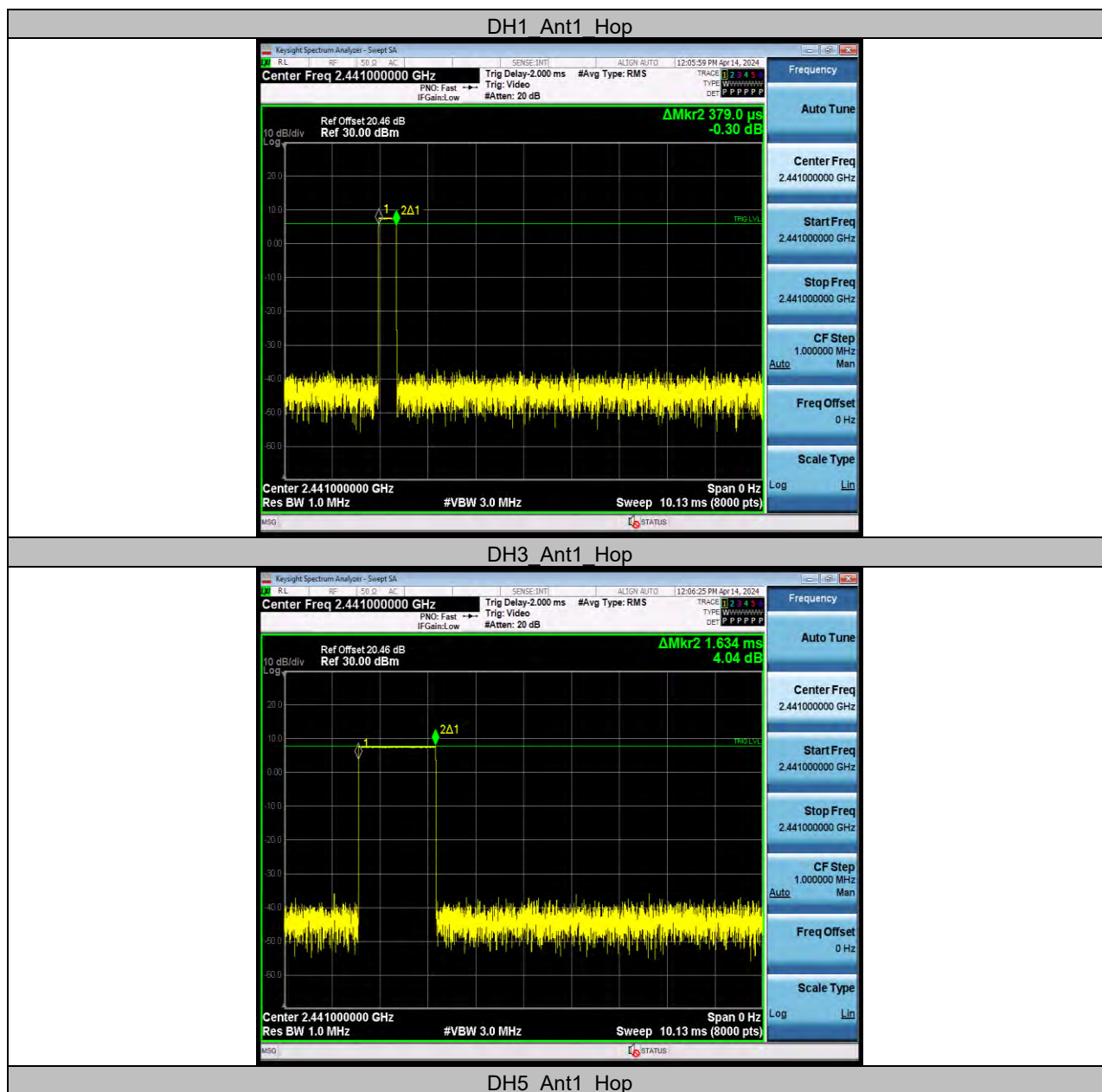
TIME OF OCCUPANCY TEST RESULT

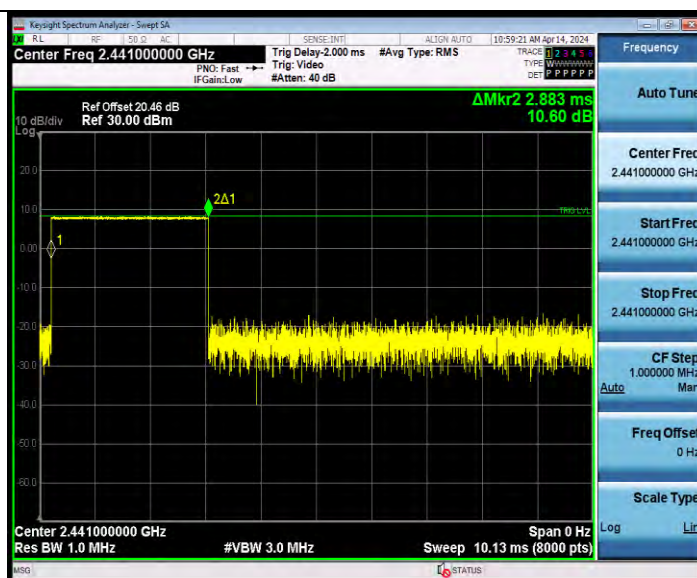
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.379	320	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.634	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.385	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.637	160	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.384	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.635	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.887	106.67	0.308	≤0.4	PASS

NOTE: TotalHops =[1600/(Send and receive Number*79)]*0.4*79;

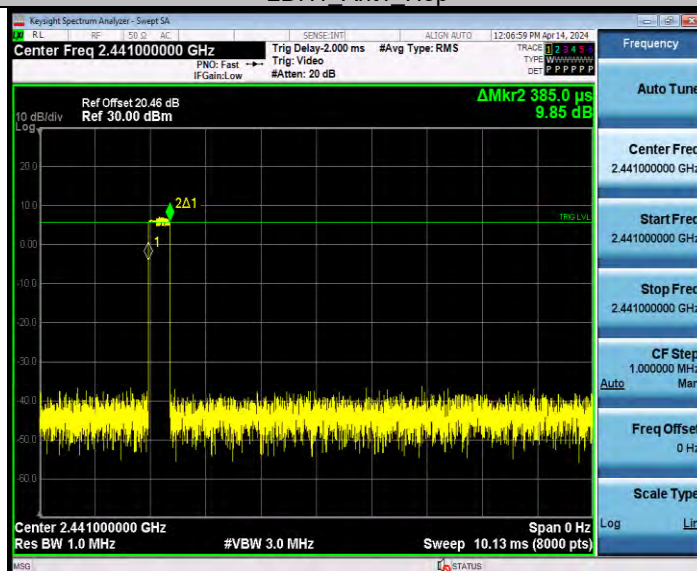
Send and receive Number : DH1/2DH1/3DH1=2; DH3/2DH3/3DH3=4; DH5/2DH5/3DH5=6

TEST GRAPHS

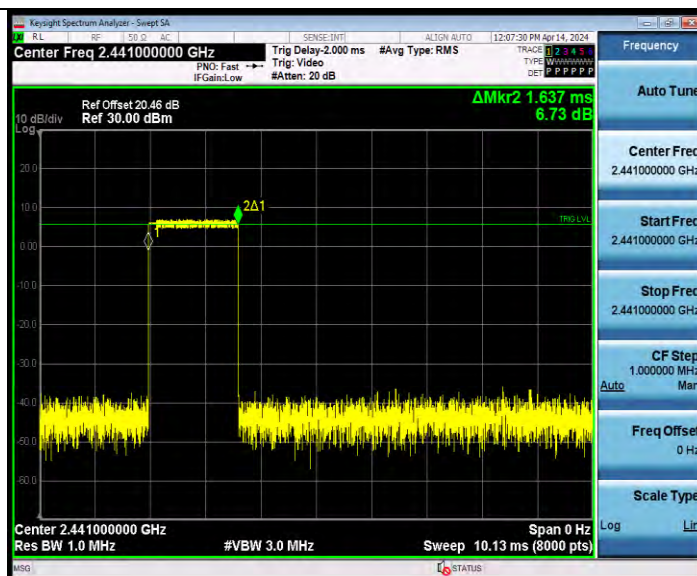




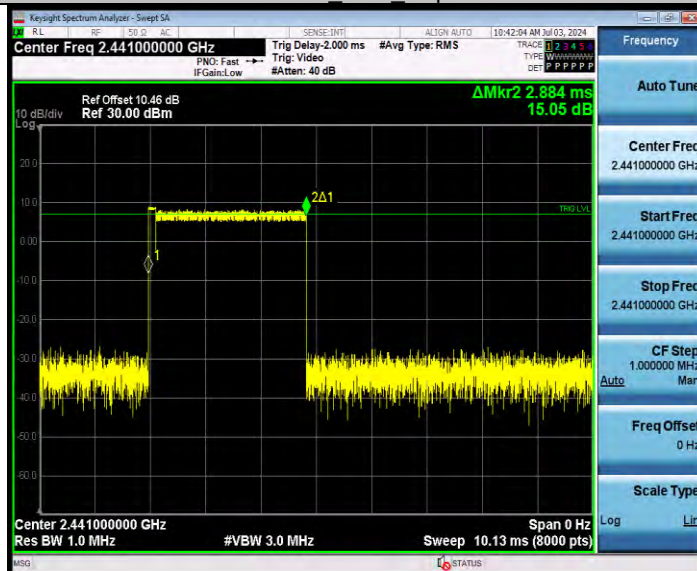
2DH1_Ant1_Hop



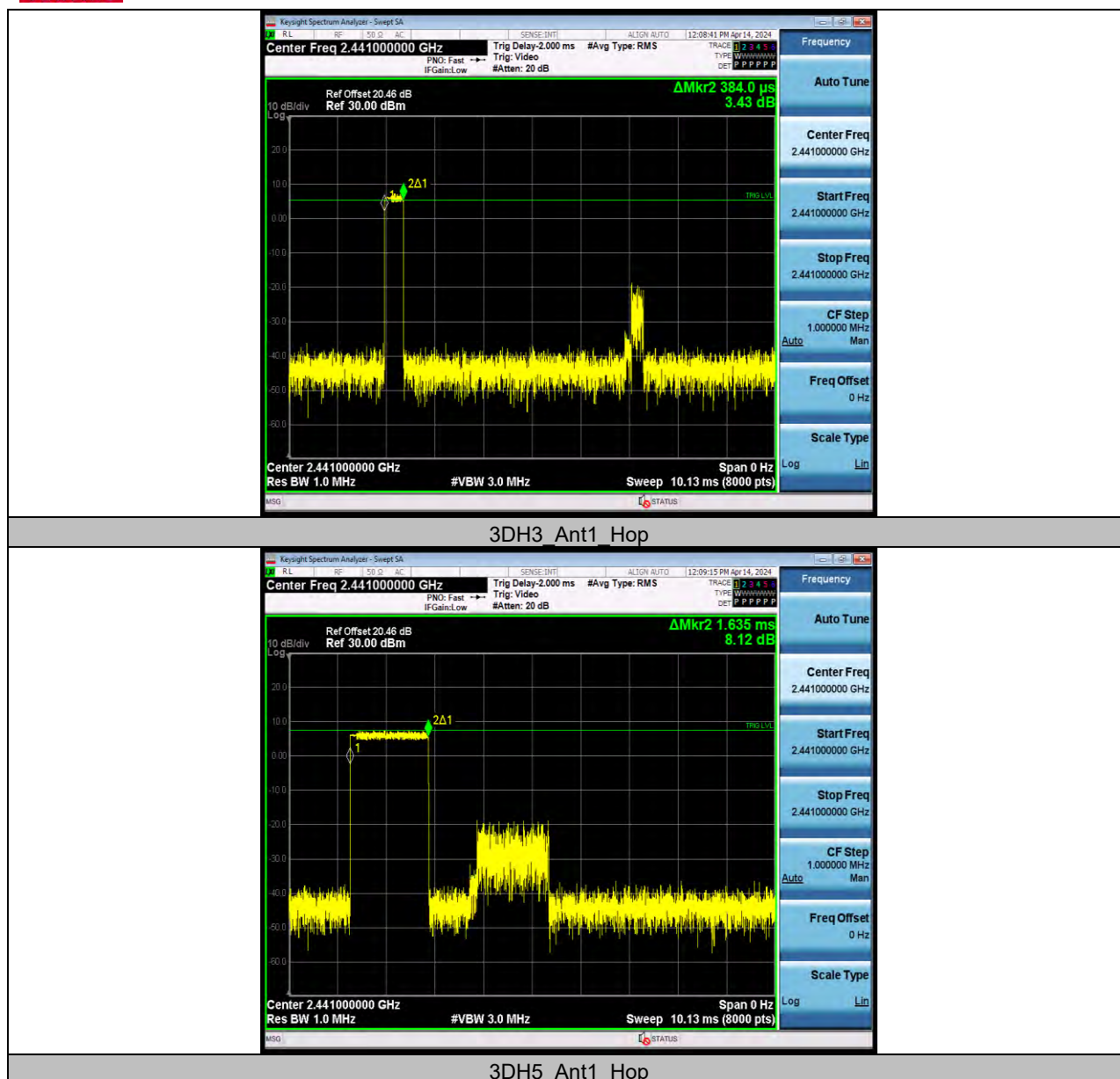
2DH3_Ant1_Hop

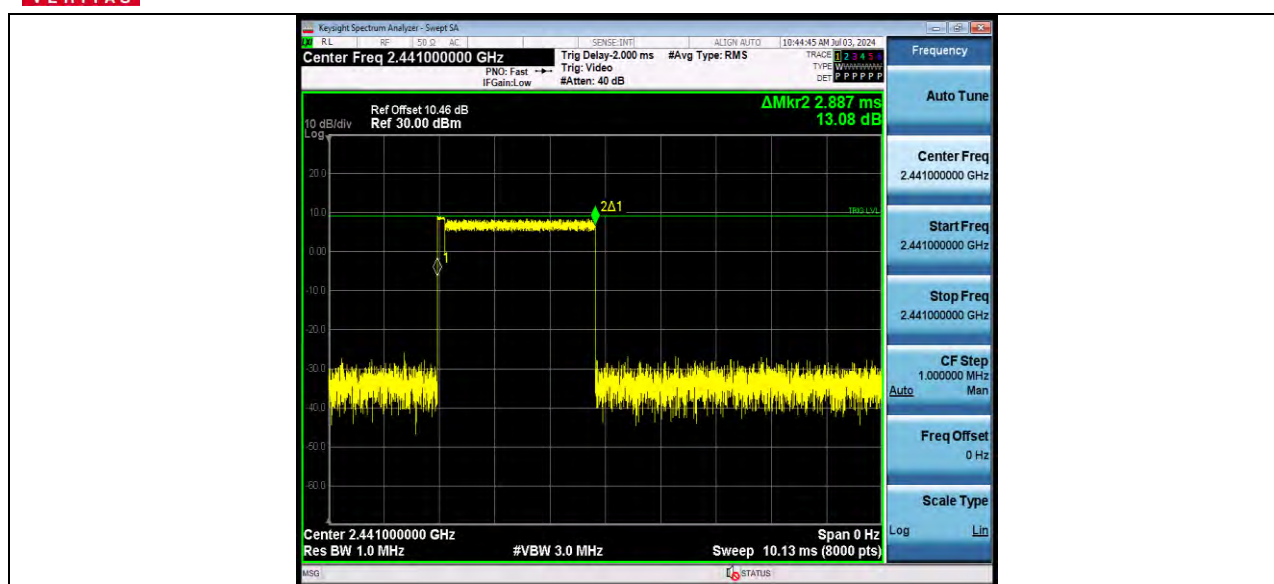


2D H5 Ant1 Hop



3D H1 Ant1 Hop







Reference No.: W7L-P24090003RF01

NUMBER OF HOPPING CHANNELS TEST RESULT

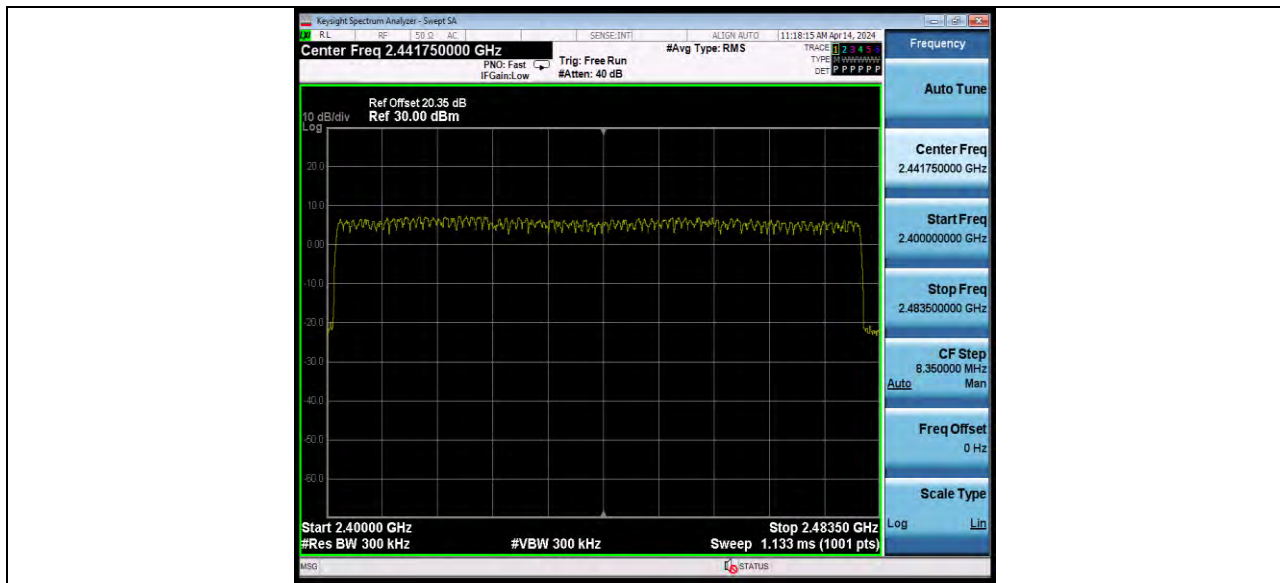
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant8	Hop	79	≥ 15	PASS
2DH5	Ant8	Hop	79	≥ 15	PASS
3DH5	Ant8	Hop	79	≥ 15	PASS

TEST GRAPHS





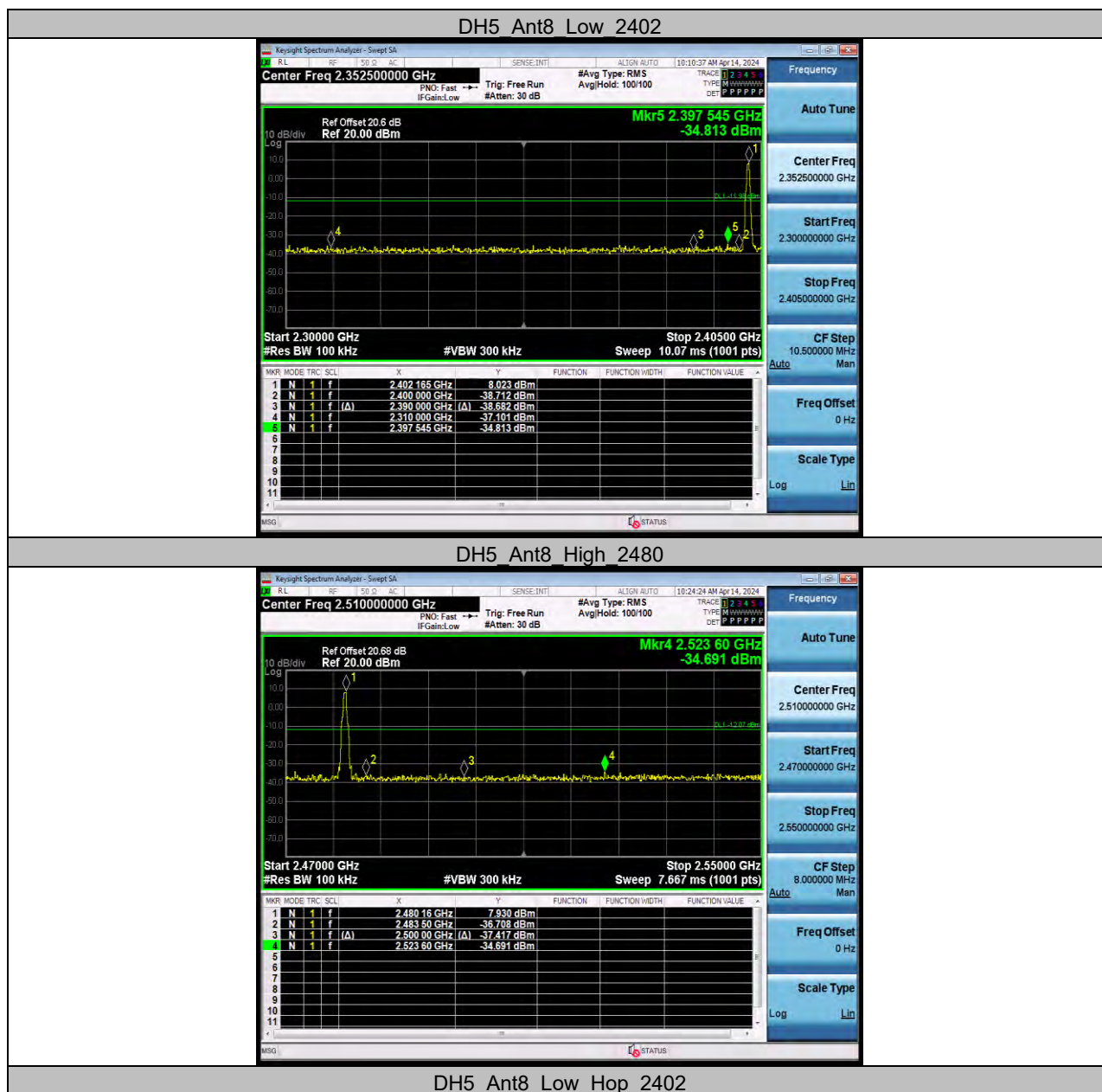
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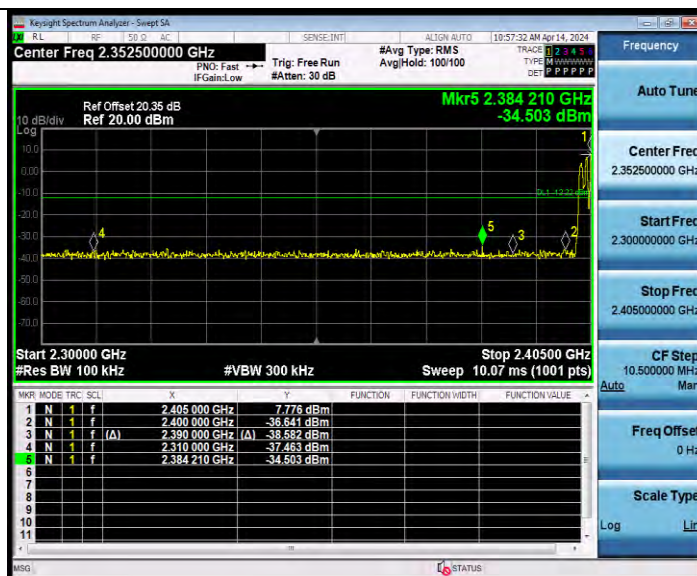


BAND EDGE MEASUREMENTS TEST RESULT

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant8	Low	2402	8.02	-34.81	≤-11.98	PASS
		High	2480	7.93	-34.69	≤-12.07	PASS
		Low	Hop_2402	7.78	-34.5	≤-12.22	PASS
		High	Hop_2480	7.10	-33.99	≤-12.9	PASS
2DH5	Ant8	Low	2402	6.46	-34.5	≤-13.54	PASS
		High	2480	5.50	-34.64	≤-14.5	PASS
		Low	Hop_2402	3.92	-35.39	≤-16.08	PASS
		High	Hop_2480	3.25	-34.84	≤-16.75	PASS
3DH5	Ant8	Low	2402	6.49	-35.86	≤-13.51	PASS
		High	2480	6.08	-34.47	≤-13.92	PASS
		Low	Hop_2402	1.77	-35.34	≤-18.23	PASS
		High	Hop_2480	3.12	-34.56	≤-16.88	PASS

TEST GRAPHS

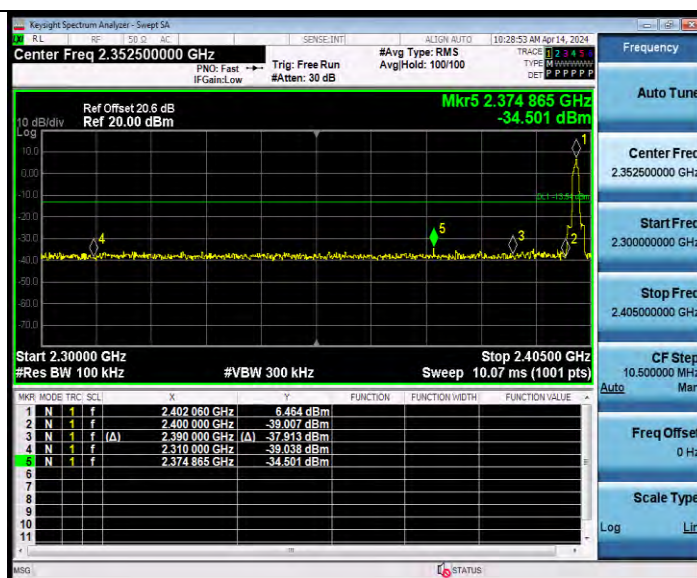




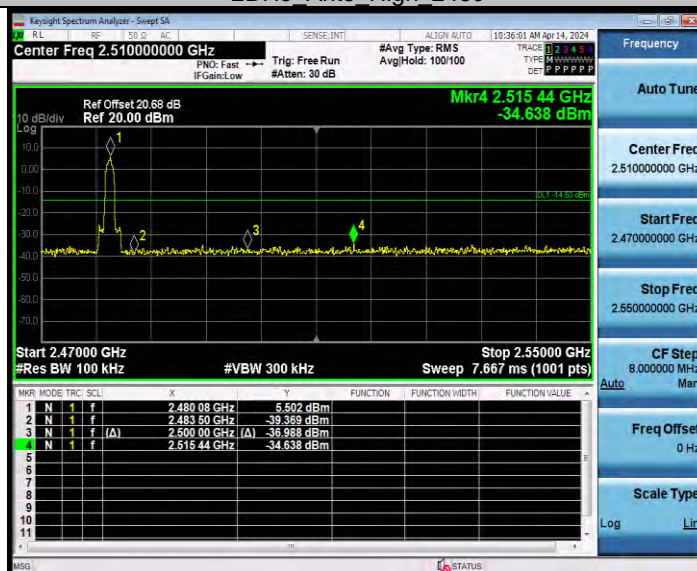
DH5 Ant8 High Hop 2480



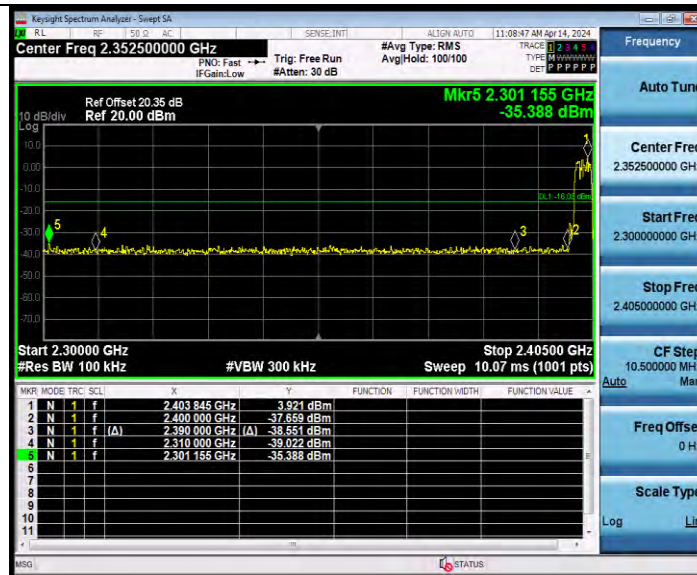
2DH5 Ant8 Low 2402



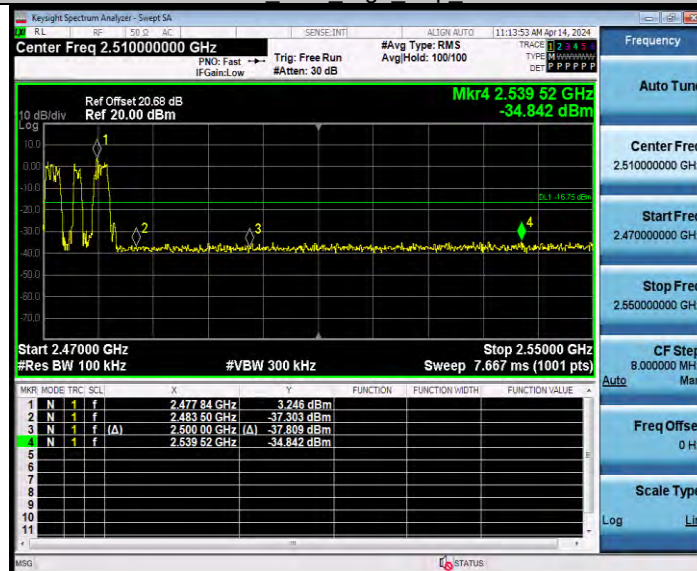
2DH5 Ant8 High 2480



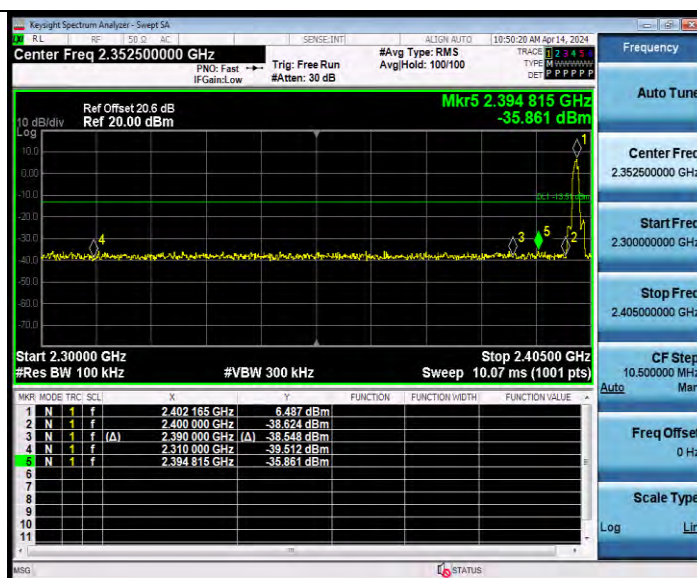
2DH5 Ant8 Low Hop 2402



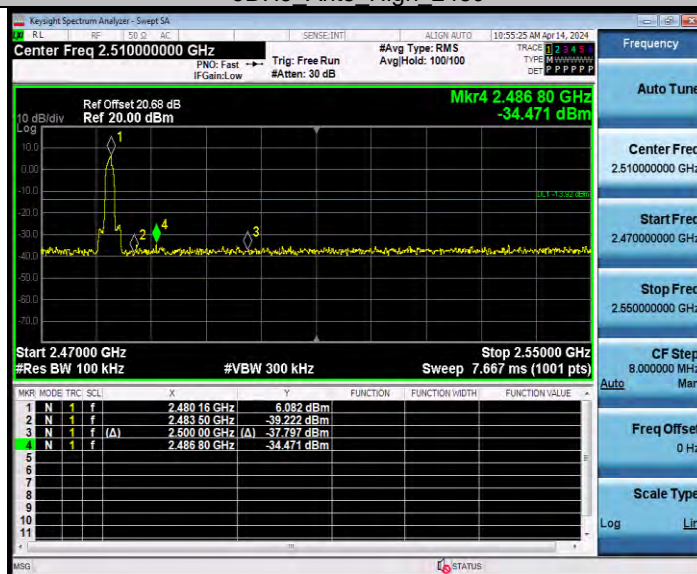
2DH5 Ant8 High Hop 2480



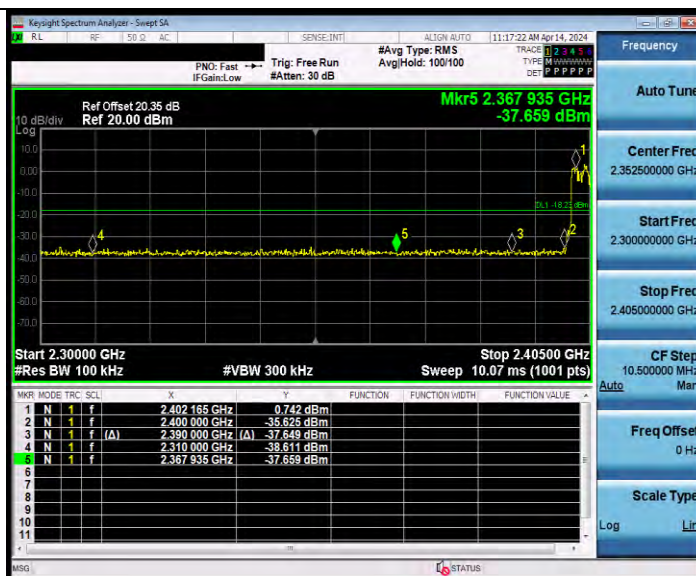
3DH5 Ant8 Low 2402



3DH5 Ant8 High 2480



3DH5 Ant8 Low Hop 2402



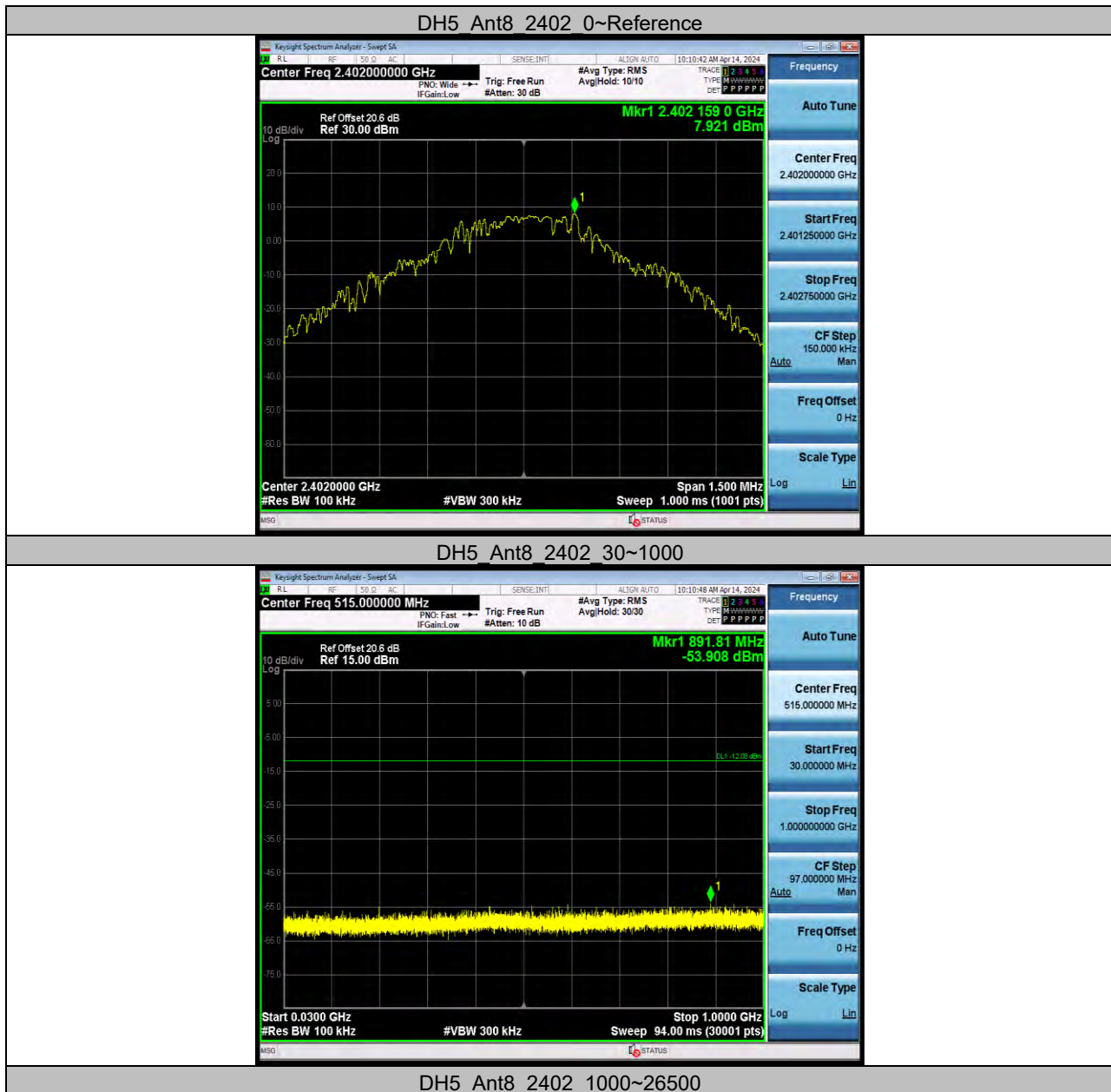
3DH5 Ant8 High Hop 2480



CONDUCTED SPURIOUS EMISSION TEST RESULT

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant8	2402	Reference	7.92	7.92	---	PASS
			30~1000	7.92	-53.91	≤-12.08	PASS
			1000~26500	7.92	-34.14	≤-12.08	PASS
		2441	Reference	7.29	7.29	---	PASS
			30~1000	7.29	-54.99	≤-12.71	PASS
			1000~26500	7.29	-34.9	≤-12.71	PASS
		2480	Reference	7.25	7.25	---	PASS
			30~1000	7.25	-53.69	≤-12.75	PASS
			1000~26500	7.25	-35.23	≤-12.75	PASS
2DH5	Ant8	2402	Reference	4.11	4.11	---	PASS
			30~1000	4.11	-54.21	≤-15.89	PASS
			1000~26500	4.11	-34.83	≤-15.89	PASS
		2441	Reference	5.80	5.80	---	PASS
			30~1000	5.80	-54.73	≤-14.2	PASS
			1000~26500	5.80	-35.18	≤-14.2	PASS
		2480	Reference	4.28	4.28	---	PASS
			30~1000	4.28	-53.29	≤-15.72	PASS
			1000~26500	4.28	-33.96	≤-15.72	PASS
3DH5	Ant8	2402	Reference	5.13	5.13	---	PASS
			30~1000	5.13	-53.88	≤-14.87	PASS
			1000~26500	5.13	-34.82	≤-14.87	PASS
		2441	Reference	5.59	5.59	---	PASS
			30~1000	5.59	-54	≤-14.41	PASS
			1000~26500	5.59	-32.79	≤-14.41	PASS
		2480	Reference	5.63	5.63	---	PASS
			30~1000	5.63	-54.15	≤-14.37	PASS
			1000~26500	5.63	-34.77	≤-14.37	PASS

TEST GRAPHS





DH5_Ant8_2441_0~Reference



DH5_Ant8_2441_30~1000



DH5_Ant8_2441_1000~26500



DH5_Ant8_2480_0~Reference

Reference No.: W7L-P24090003RF01



DH5 Ant8 2480 30~1000



DH5 Ant8 2480 1000~26500



2DH5_Ant8_2402_0~Reference



2DH5_Ant8_2402_30~1000



2DH5 Ant8 2402 1000~26500



2DH5 Ant8 2441 0~Reference

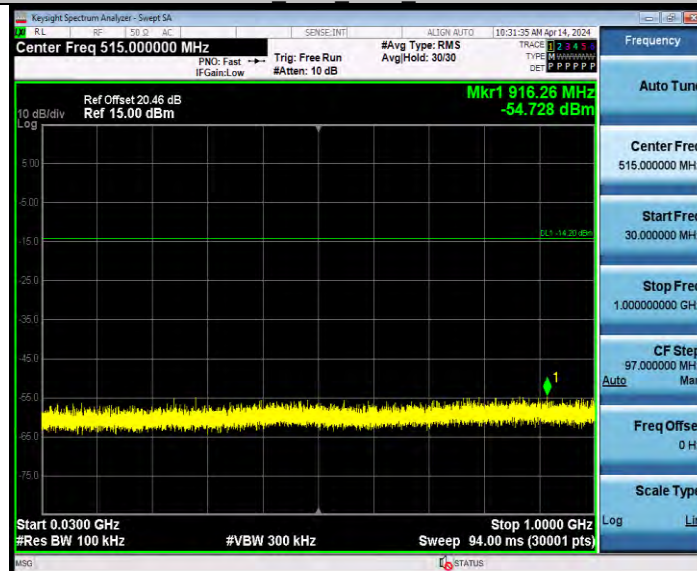


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Reference No.: W7L-P24090003RF01



2DH5_Ant8_2441_30~1000



2DH5_Ant8_2441_1000~26500



Reference No.: W7L-P24090003RF01



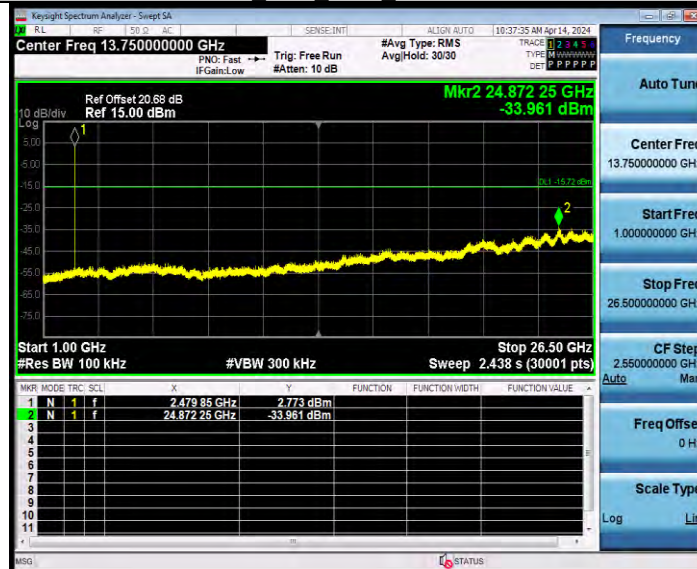


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VERITAS

Reference No.: W7L-P24090003RF01



2DH5 Ant8 2480 1000~26500



3DH5 Ant8 2402 0~Reference

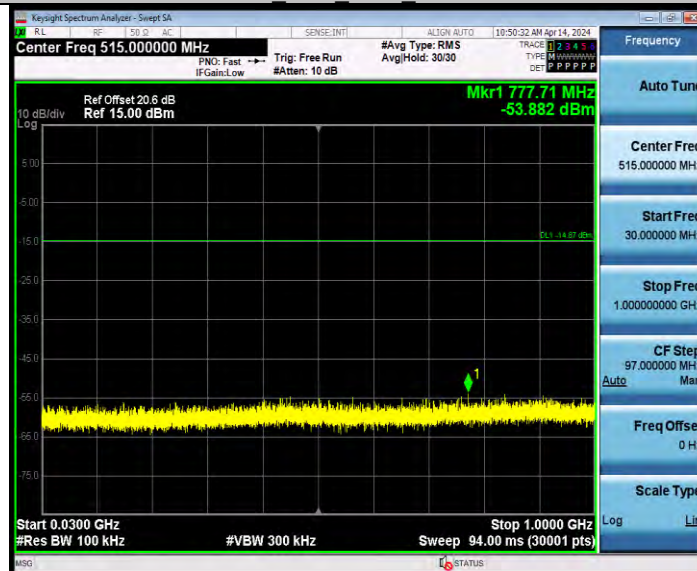


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Reference No.: W7L-P24090003RF01



3DH5_Ant8_2402_30~1000



3DH5_Ant8_2402_1000~26500



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VERITAS

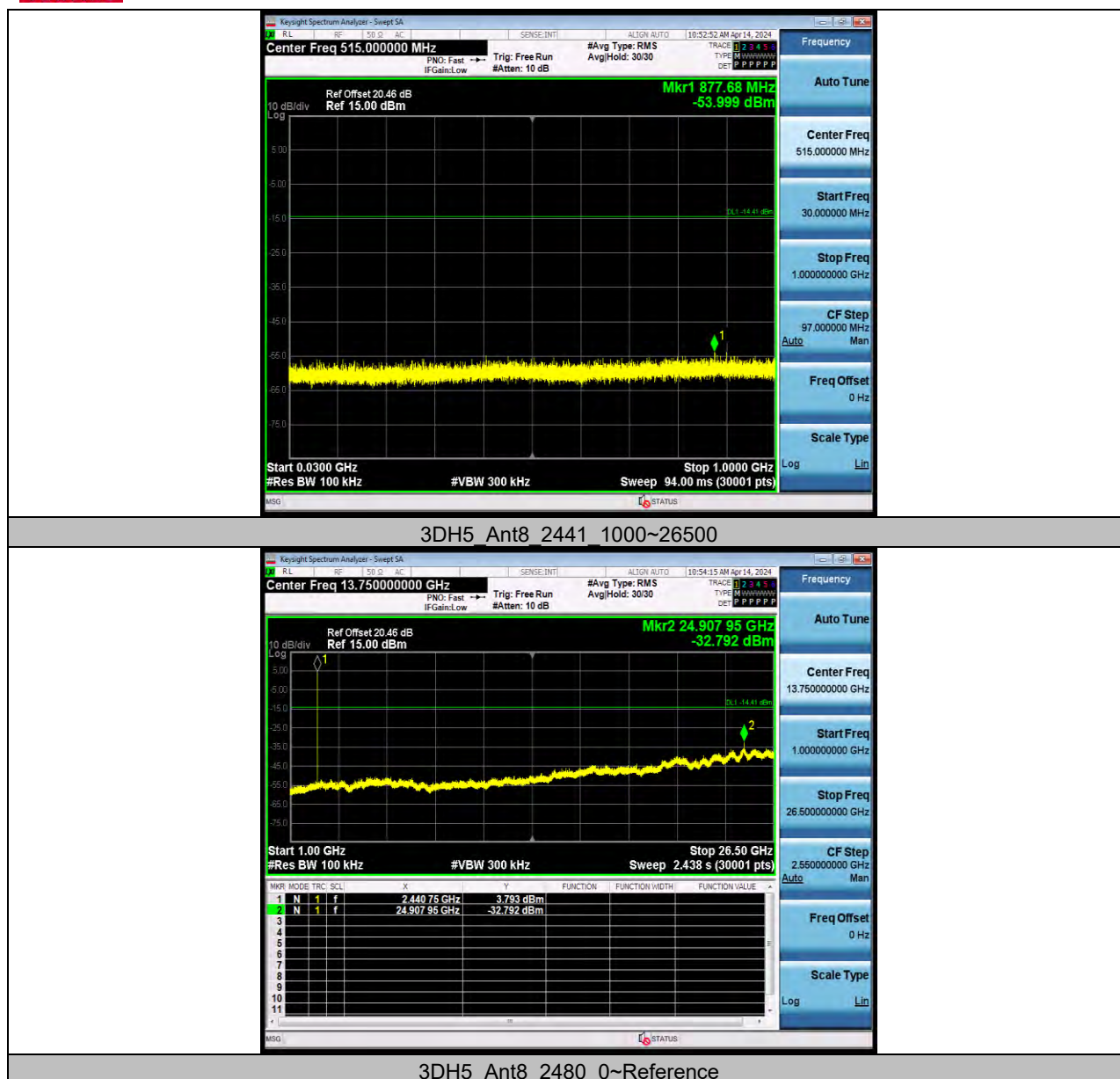
Reference No.: W7L-P24090003RF01

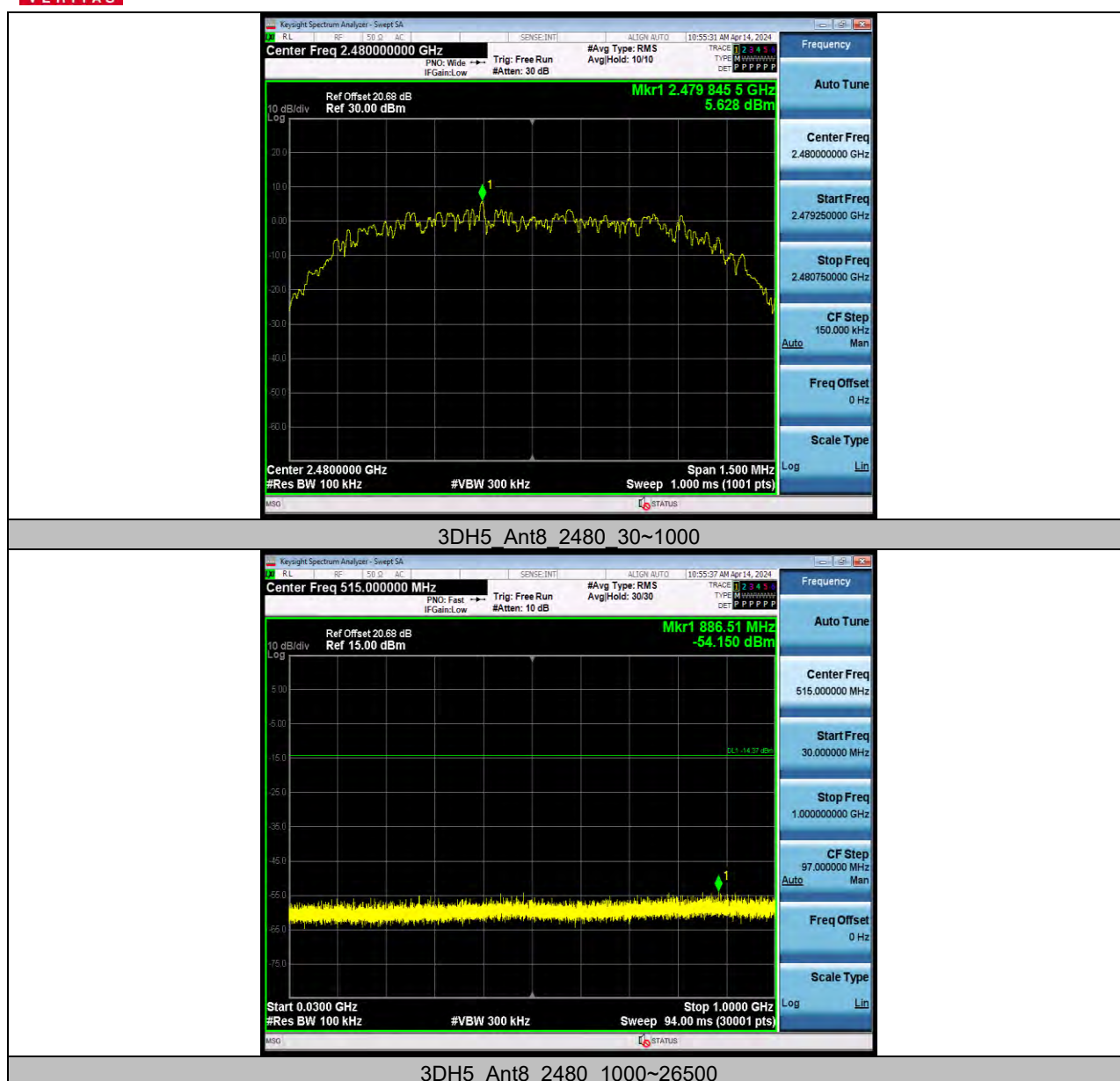


3DH5_Ant8_2441_0~Reference



3DH5_Ant8_2441_30~1000







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VERITAS

Reference No.: W7L-P24090003RF01

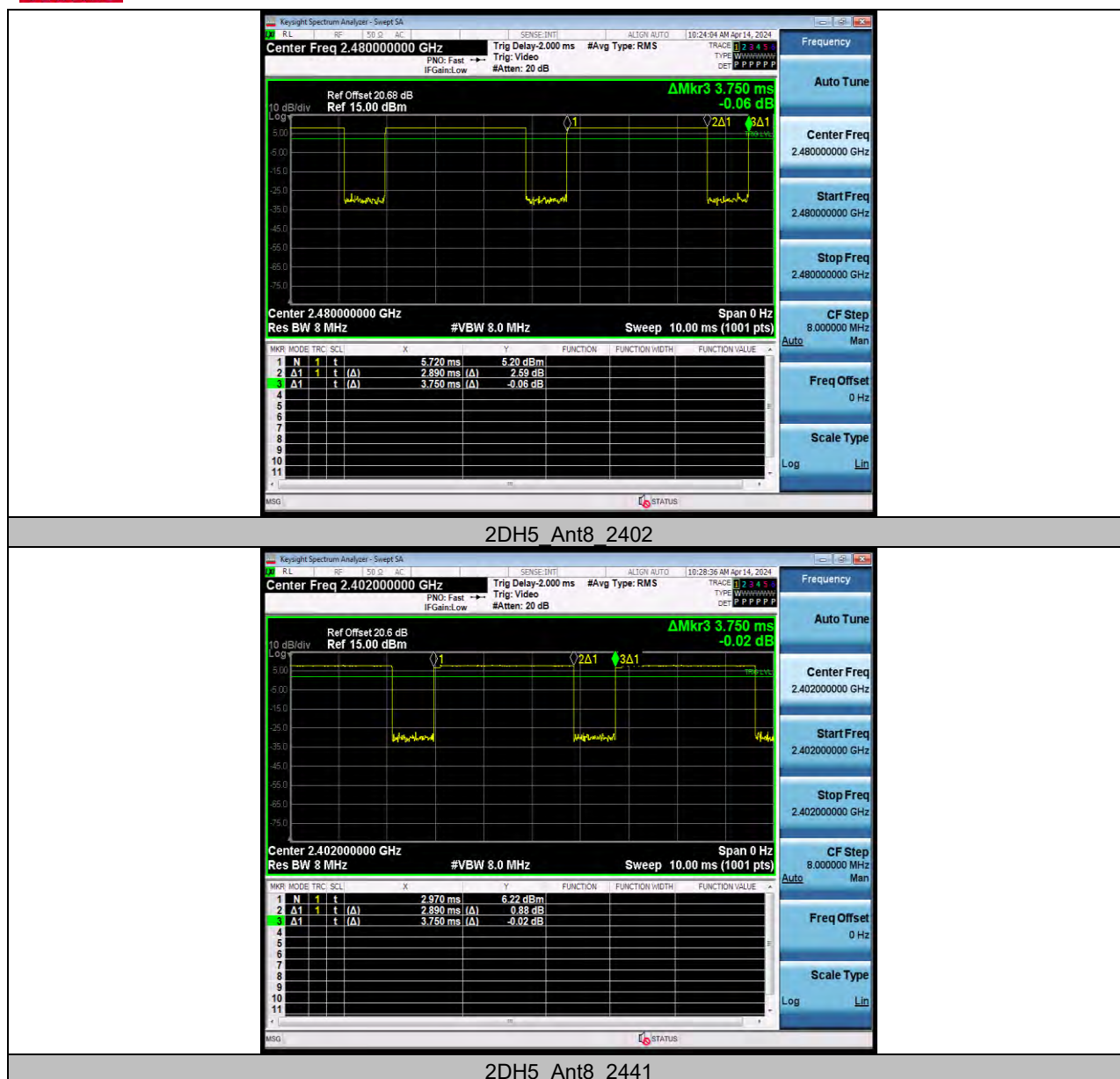


DUTY CYCLE TEST RESULT

TestMode	Antenna	Frequency[M Hz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant8	2402	2.88	3.75	76.80	1.15
		2441	2.88	3.75	76.80	1.15
		2480	2.89	3.75	77.07	1.13
2DH5	Ant8	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13
3DH5	Ant8	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.88	3.75	76.80	1.15

TEST GRAPHS

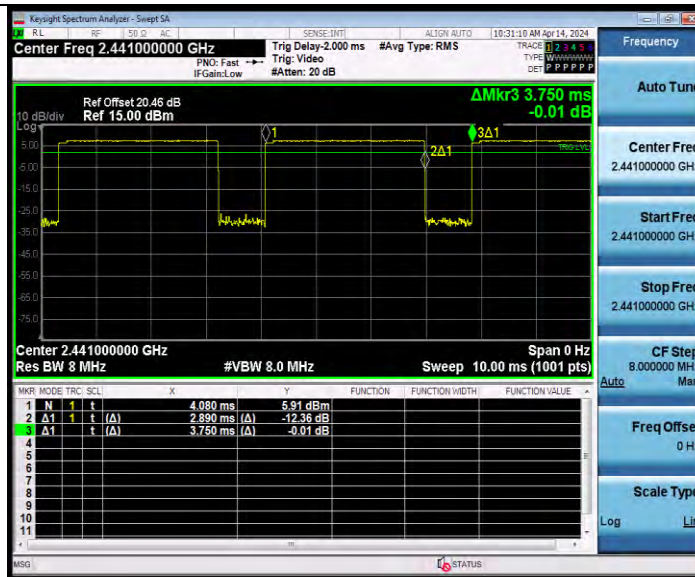




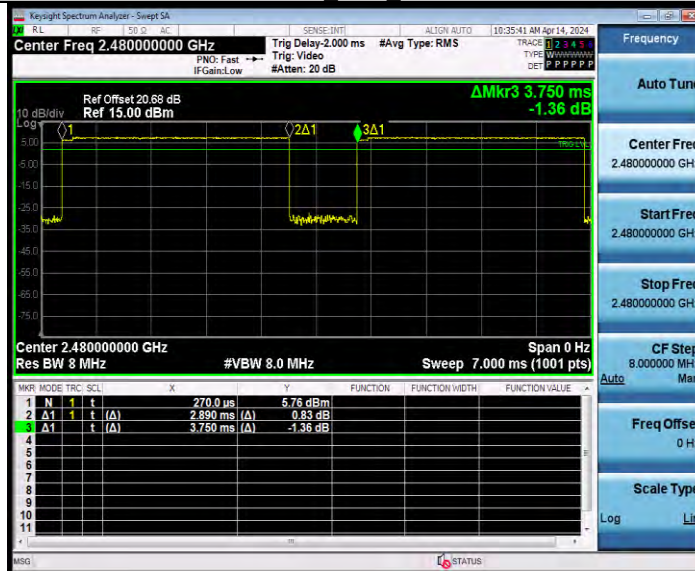


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VERITAS

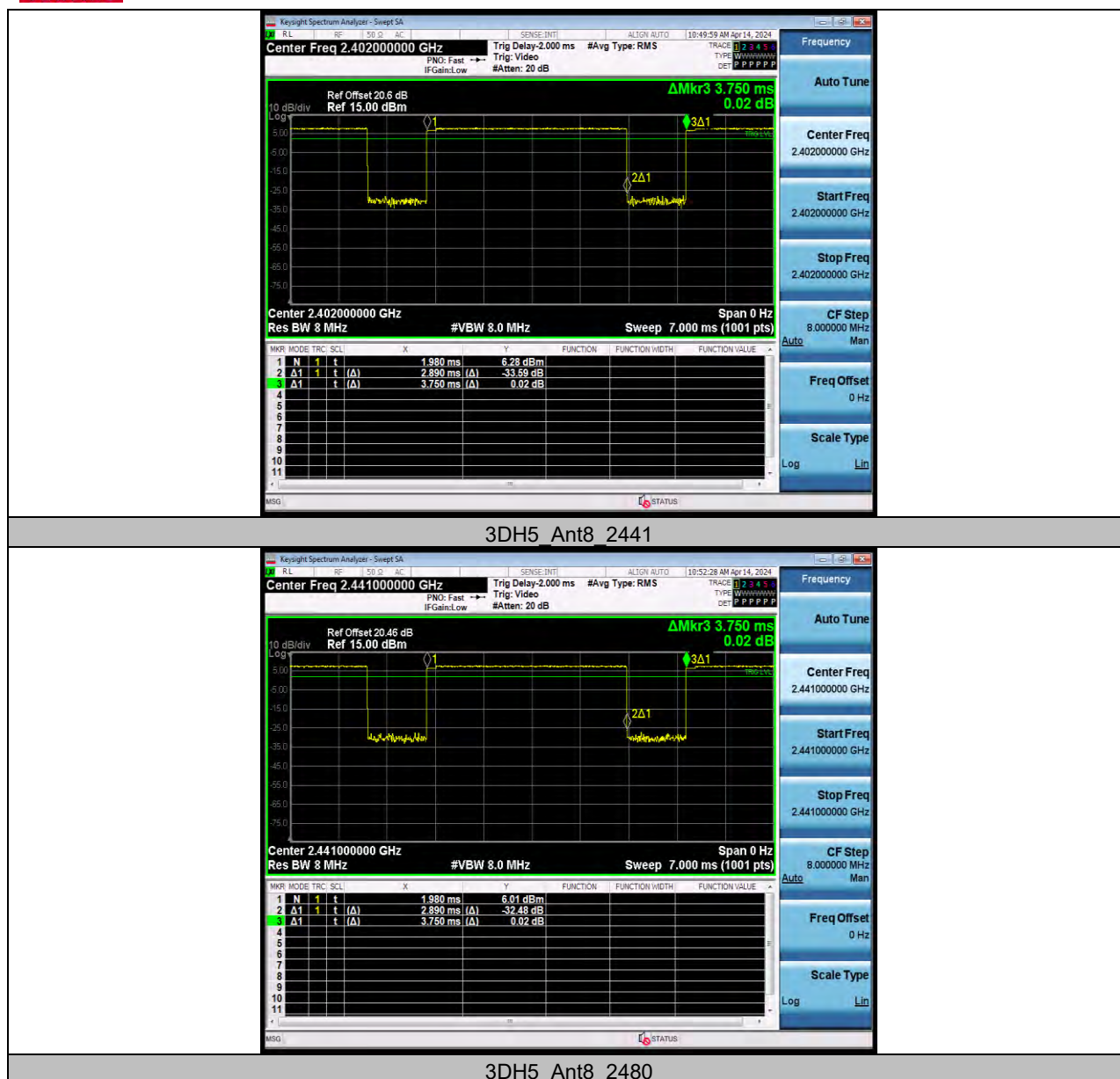
Reference No.: W7L-P24090003RF01



2D H5 Ant8 2480

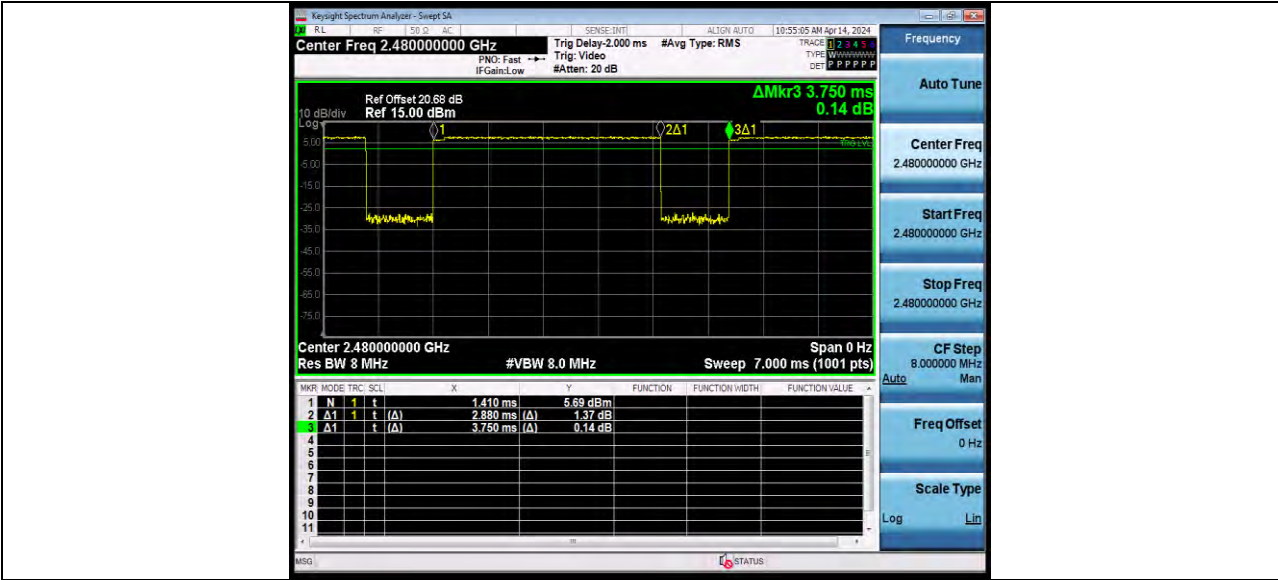


3D H5 Ant8 2402





Reference No.: W7L-P24090003RF01



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