



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: VIDEO PROJECTOR

Test Model: JQ901A

Environmental Conditions

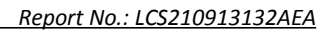
Temperature:	21.1 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Wunder Wu
Supervised by:	Huan Li



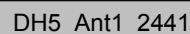
A.1 20dB Emission Bandwidth

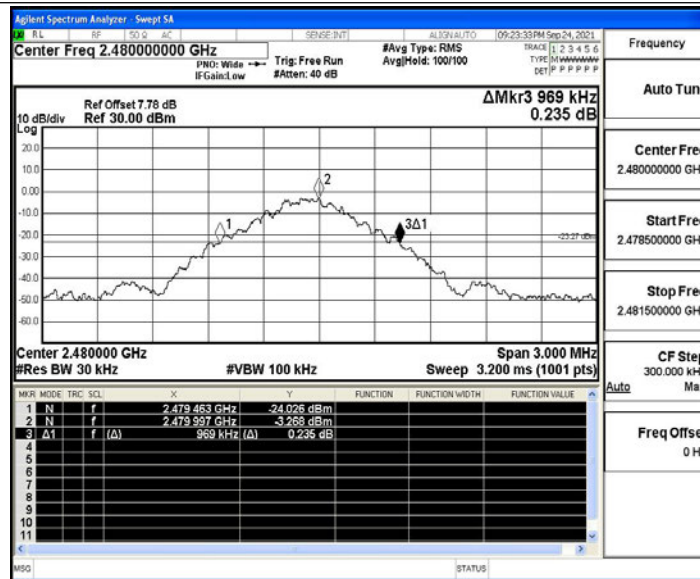
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.478	2402.417	---	PASS
		2441	0.933	2440.487	2441.420	---	PASS
		2480	0.969	2479.463	2480.432	---	PASS
2DH5	Ant1	2402	1.314	2401.280	2402.594	---	PASS
		2441	1.287	2440.301	2441.588	---	PASS
		2480	1.278	2479.304	2480.582	---	PASS
3DH5	Ant1	2402	1.344	2401.265	2402.609	---	PASS
		2441	1.296	2440.289	2441.585	---	PASS
		2480	1.242	2479.307	2480.549	---	PASS

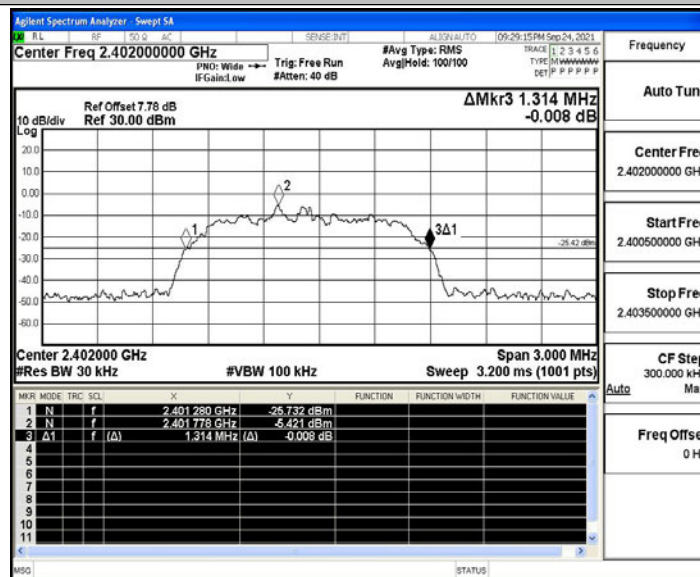


DH5_Ant1_2402

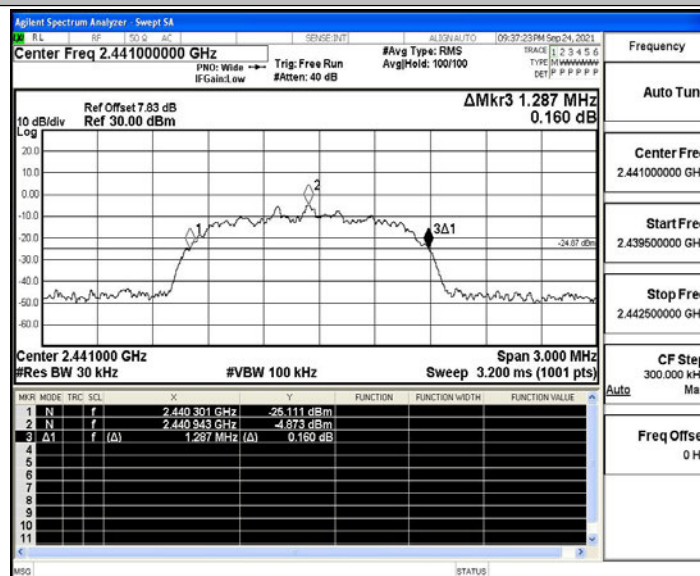




2DH5_Ant1_2402

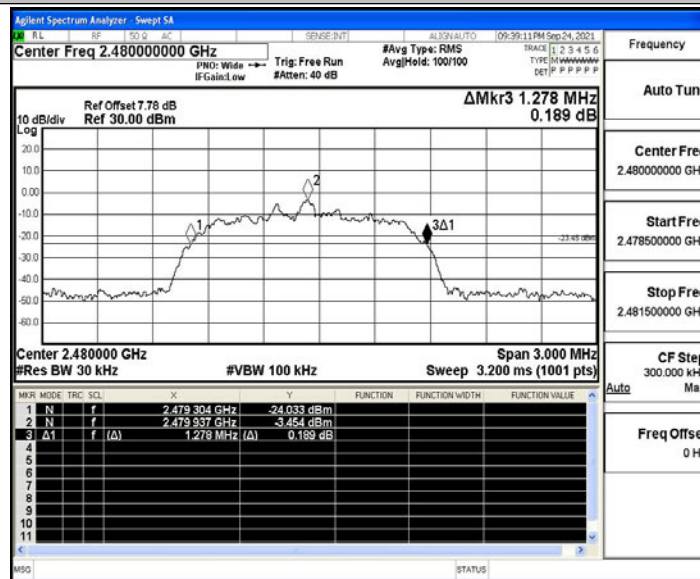


2DH5_Ant1_2441

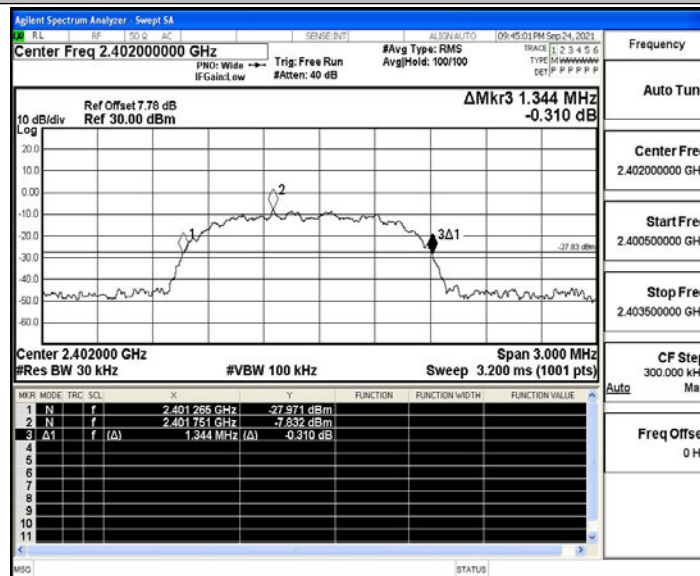




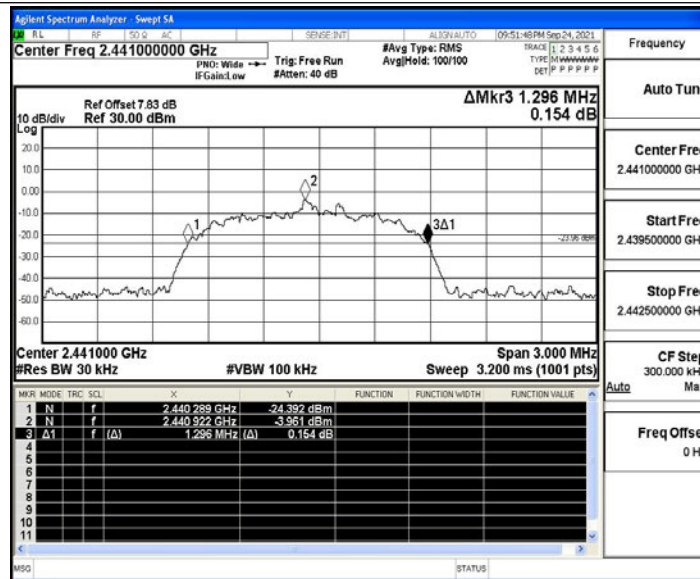
2DH5_Ant1_2480



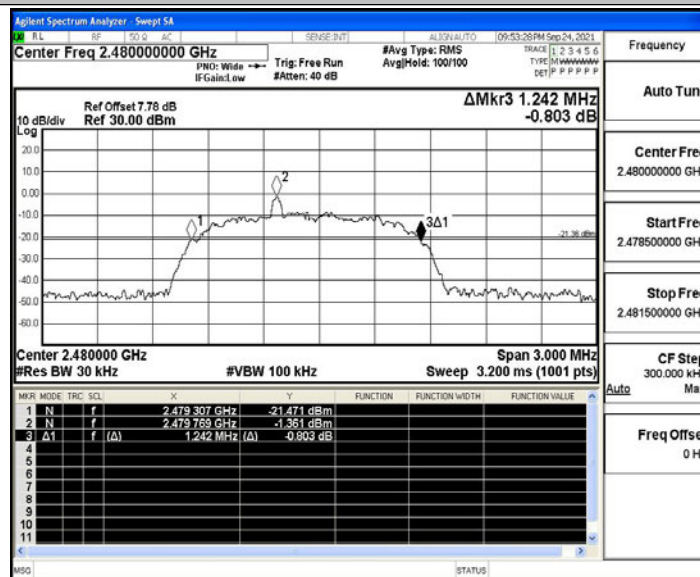
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.2 Maximum conducted output power

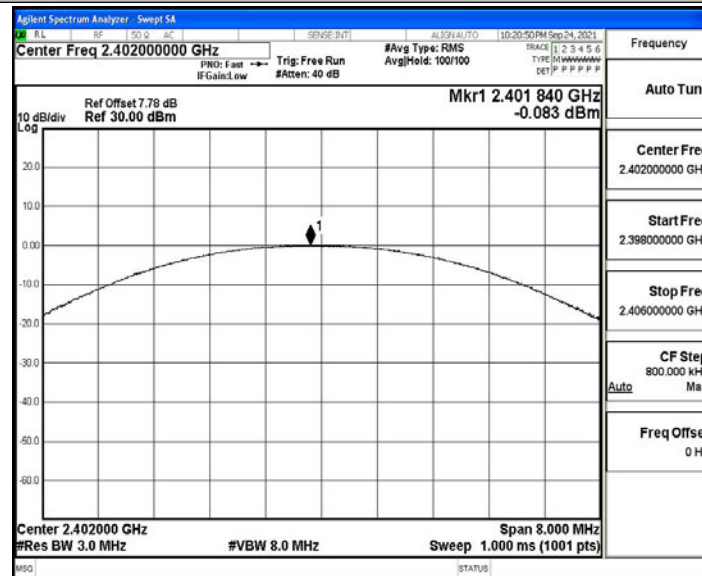
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.08	≤20.97	PASS
		2441	-0.01	≤20.97	PASS
		2480	0.01	≤20.97	PASS
2DH5	Ant1	2402	-0.2	≤20.97	PASS
		2441	-0.29	≤20.97	PASS
		2480	-0.01	≤20.97	PASS
3DH5	Ant1	2402	-0.13	≤20.97	PASS
		2441	-0.2	≤20.97	PASS
		2480	0.02	≤20.97	PASS

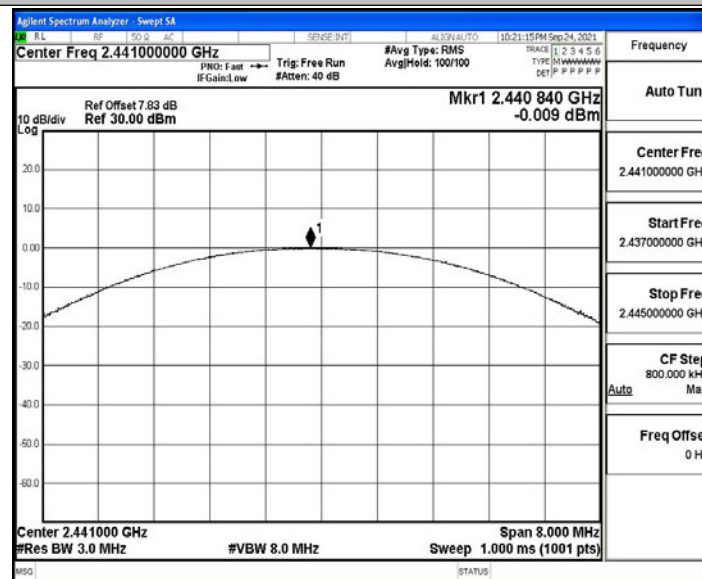


Test Graphs

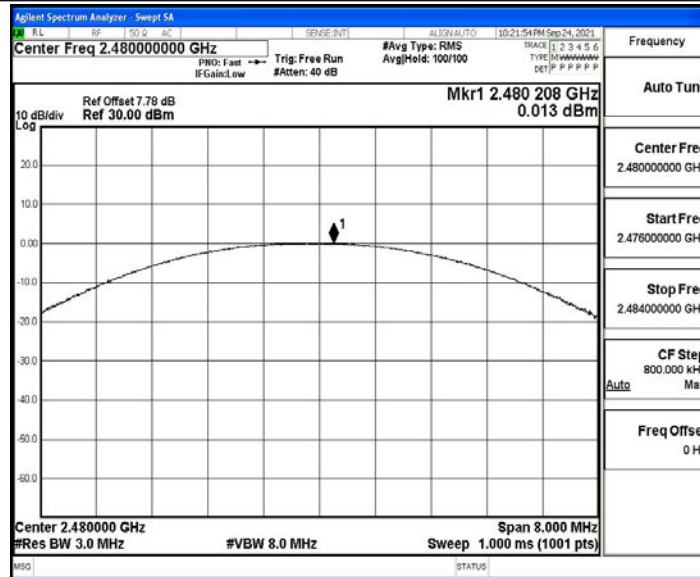
DH5_Ant1_2402



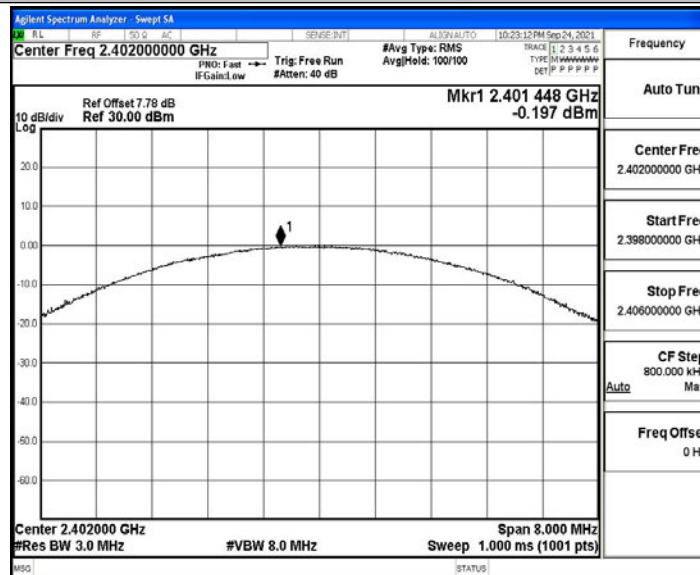
DH5_Ant1_2441



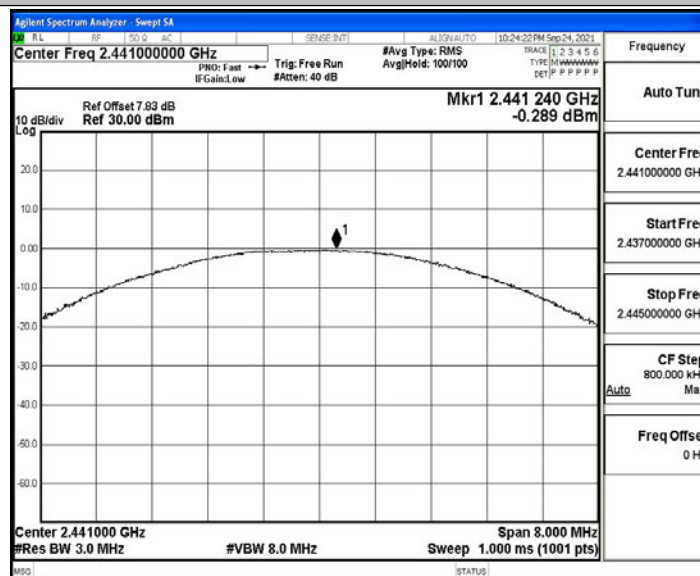
DH5_Ant1_2480

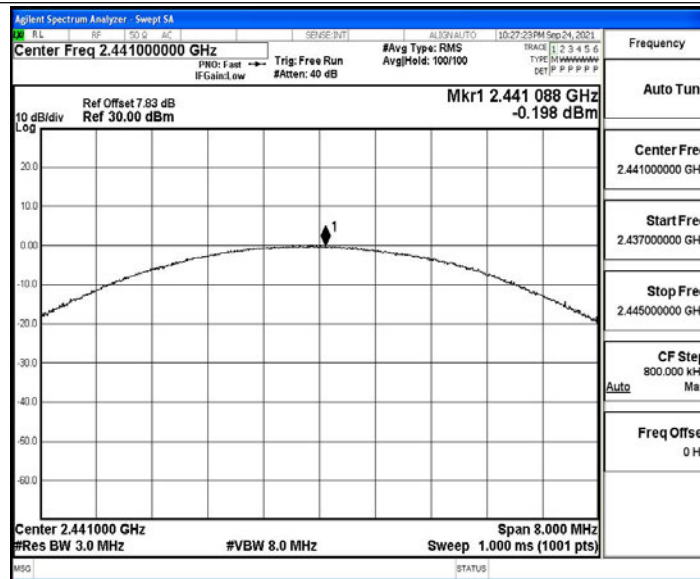


2DH5_Ant1_2402

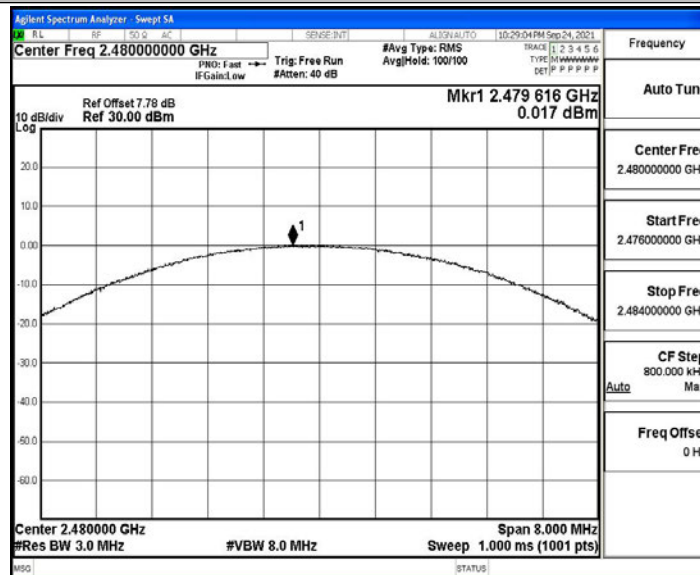


2DH5_Ant1_2441





3DH5_Ant1_2480



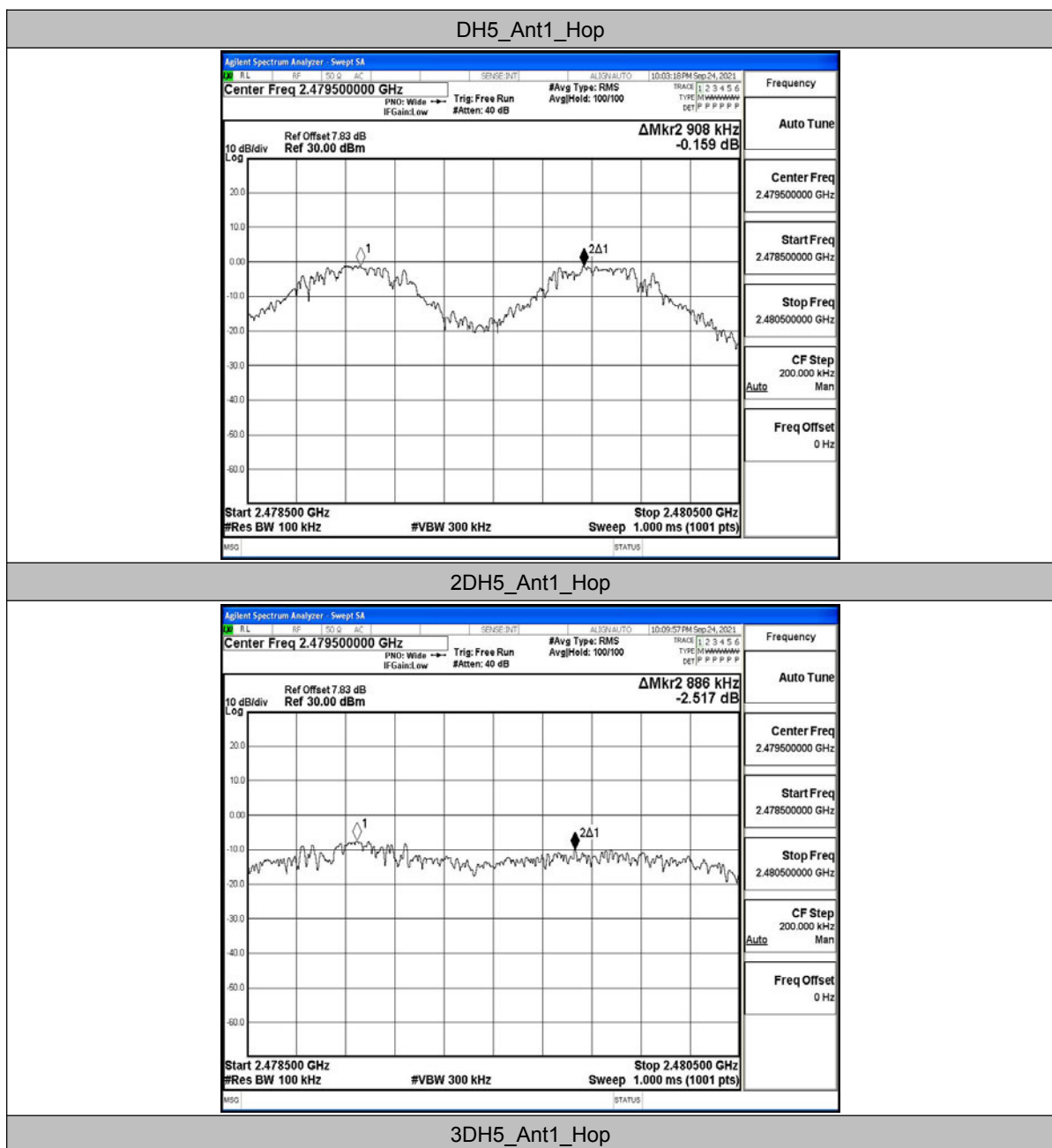


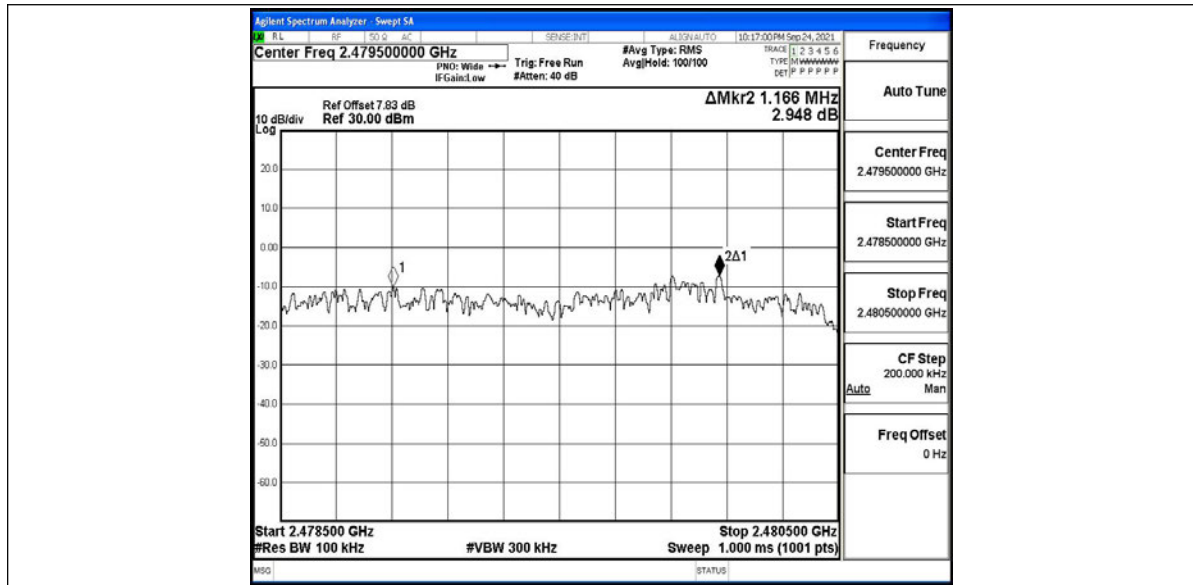
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.908	≥ 0.646	PASS
2DH5	Ant1	Hop	0.886	≥ 0.876	PASS
3DH5	Ant1	Hop	1.166	≥ 0.896	PASS

Test Graphs





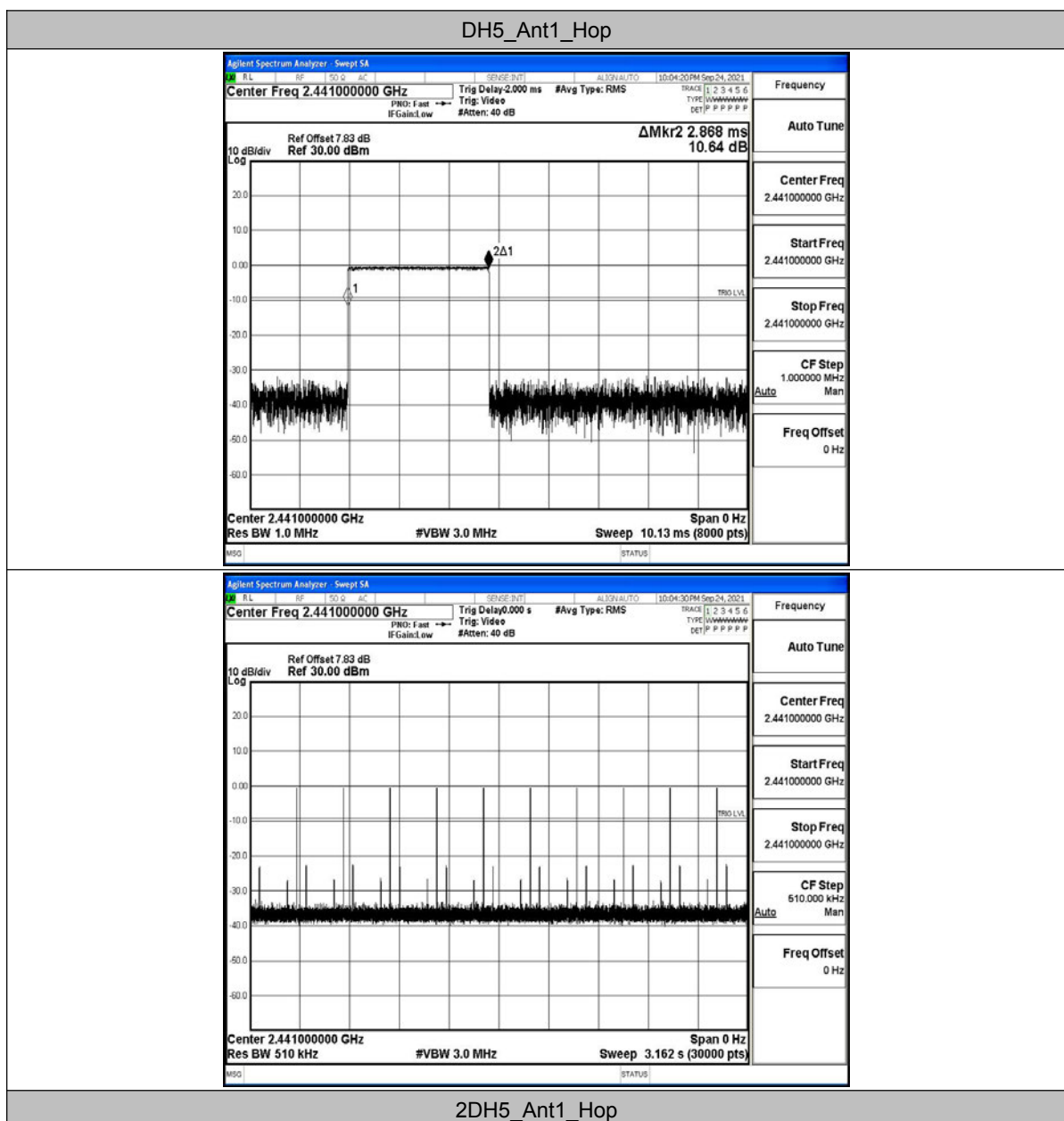


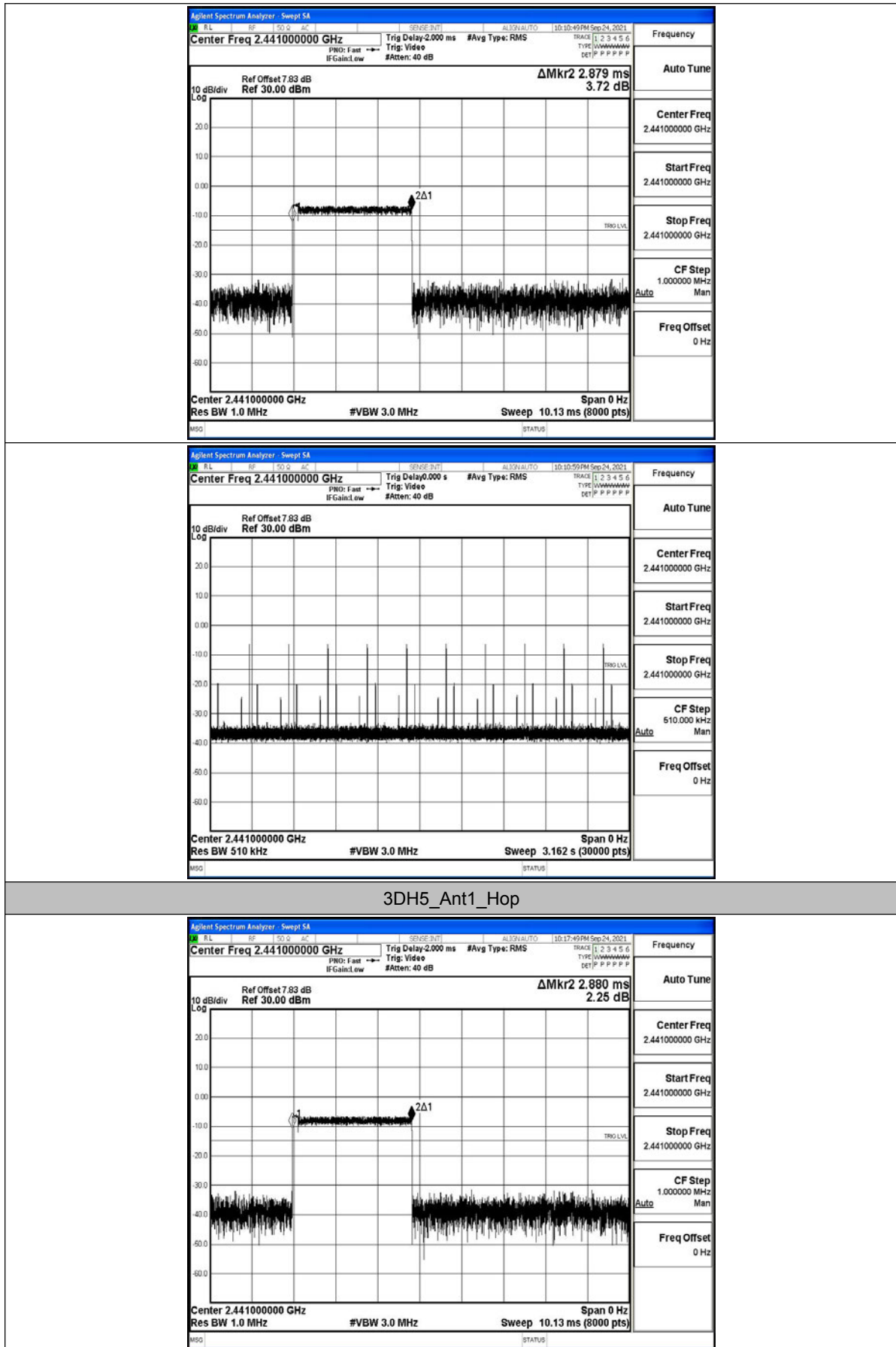
A.4 Time of occupancy

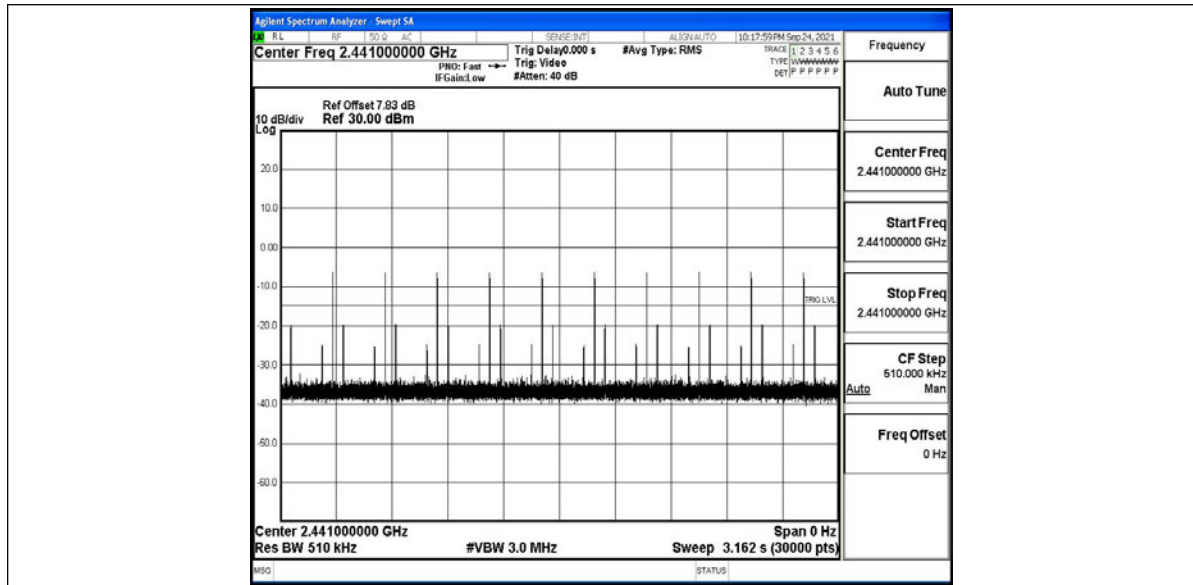
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.87	110	0.315	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS

Test Graphs









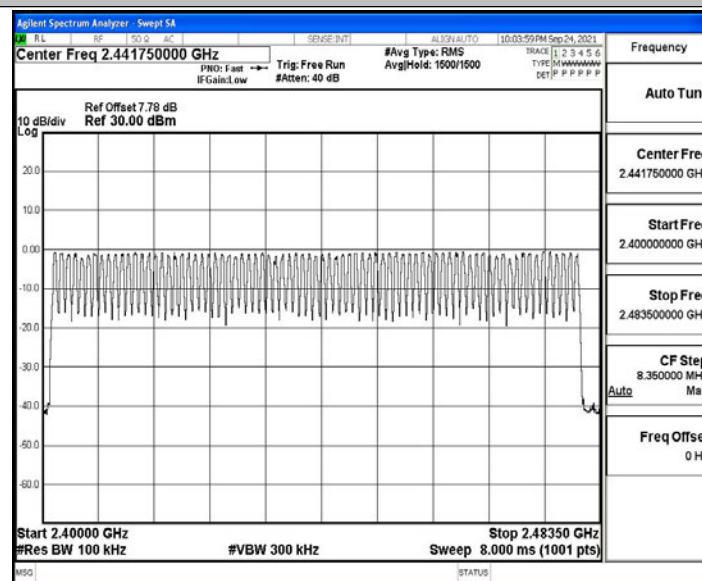
A.5 Number of hopping channels

Test Result

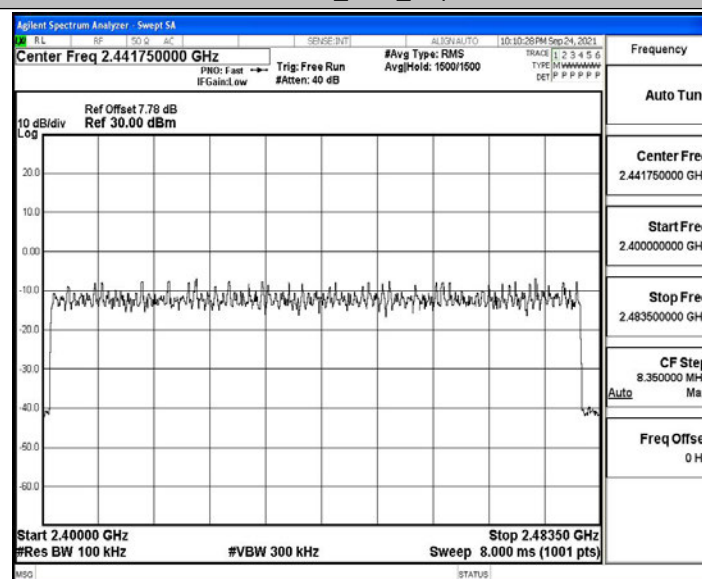
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

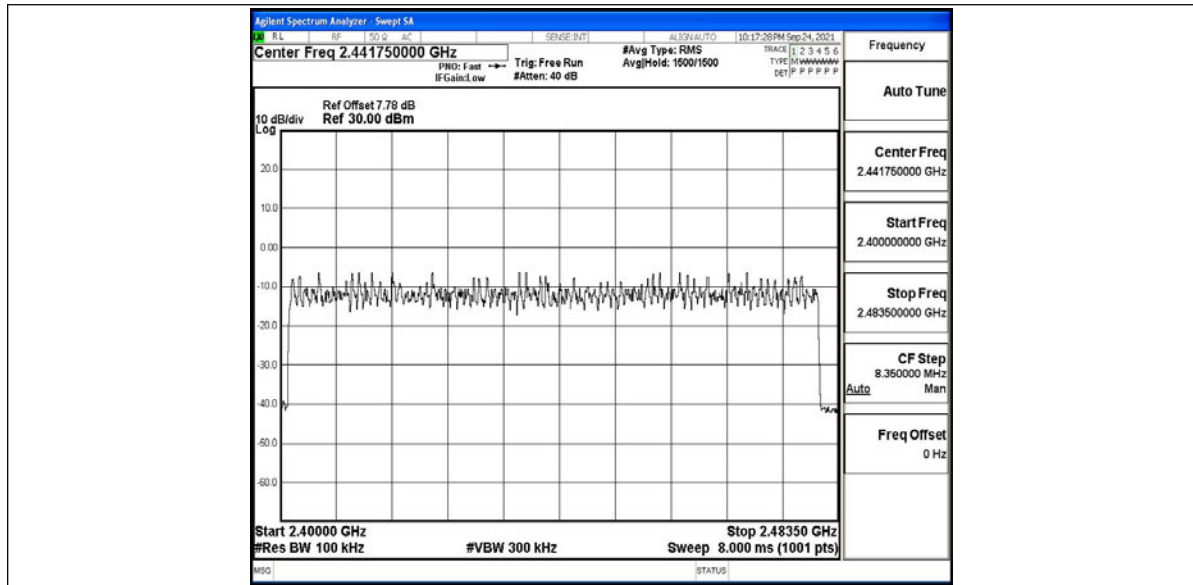
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.6 Band edge measurements

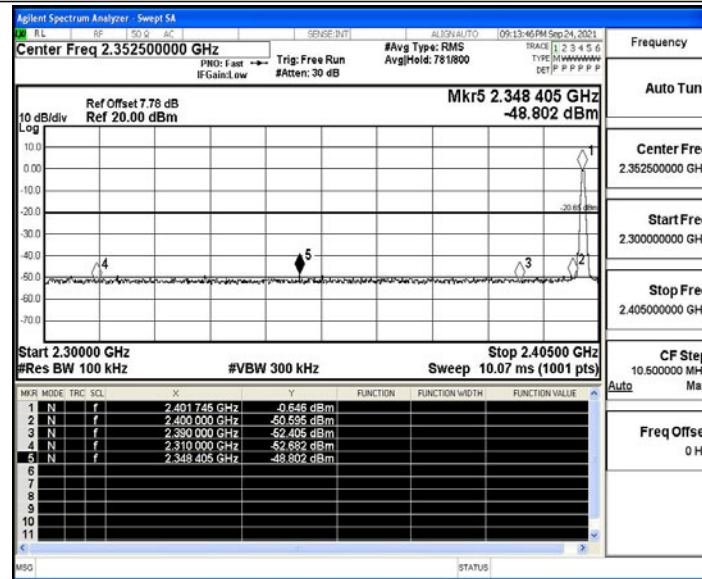
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.65	-48.8	≤ -20.65	PASS
		High	2480	-0.55	-48.36	≤ -20.55	PASS
		Low	Hop_2402	-1.24	-49.42	≤ -21.24	PASS
		High	Hop_2480	-0.57	-48.27	≤ -20.57	PASS
2DH5	Ant1	Low	2402	-1.28	-49.39	≤ -21.28	PASS
		High	2480	-0.63	-47.86	≤ -20.63	PASS
		Low	Hop_2402	-10.69	-49.54	≤ -30.69	PASS
		High	Hop_2480	-10.12	-48.97	≤ -30.12	PASS
3DH5	Ant1	Low	2402	-0.70	-49.35	≤ -20.7	PASS
		High	2480	-0.50	-48.36	≤ -20.5	PASS
		Low	Hop_2402	-8.34	-49.41	≤ -28.34	PASS
		High	Hop_2480	-6.20	-48.02	≤ -26.2	PASS

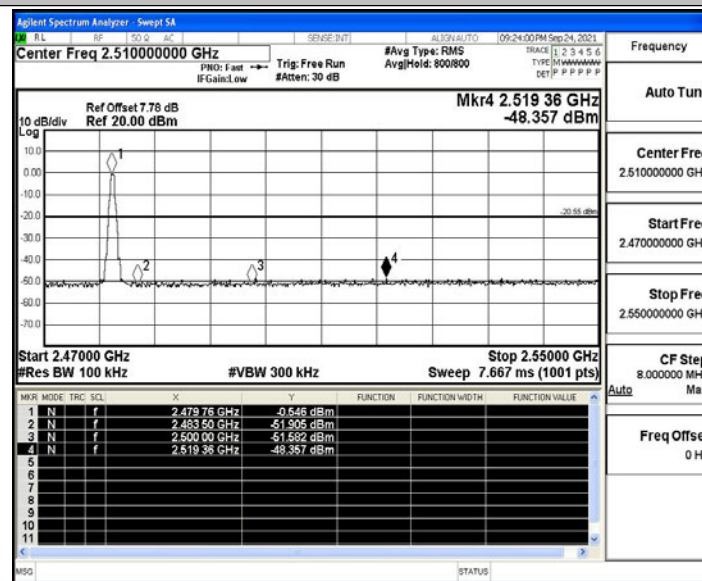


Test Graphs

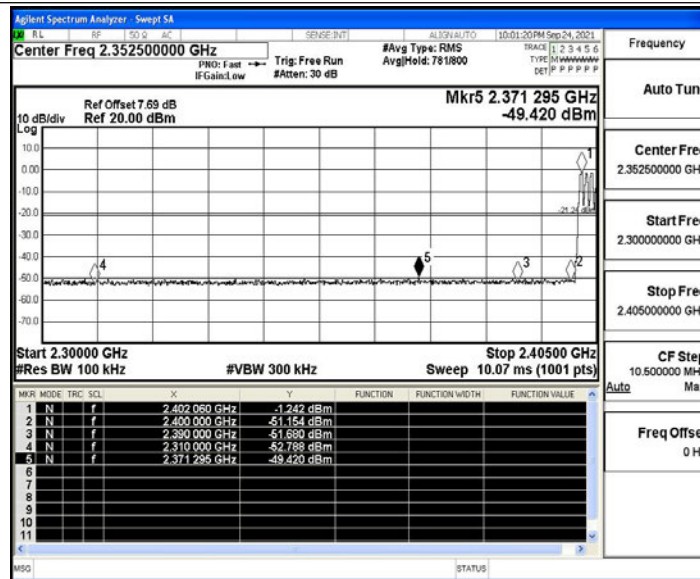
DH5_Ant1_Low_2402



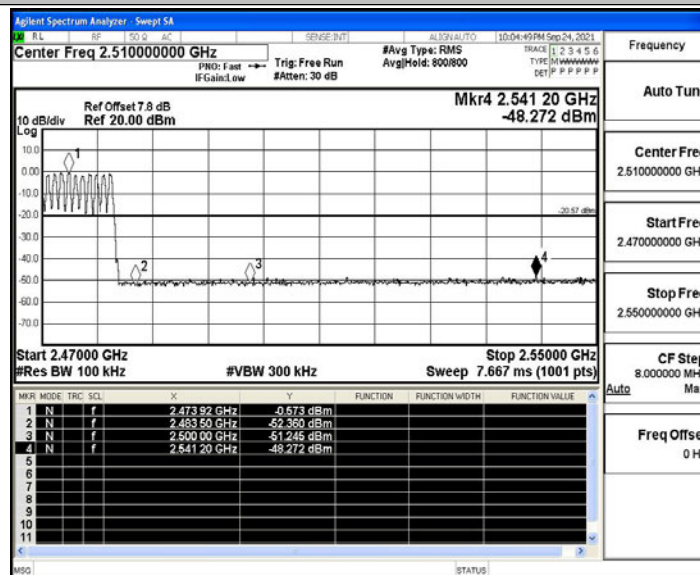
DH5_Ant1_High_2480



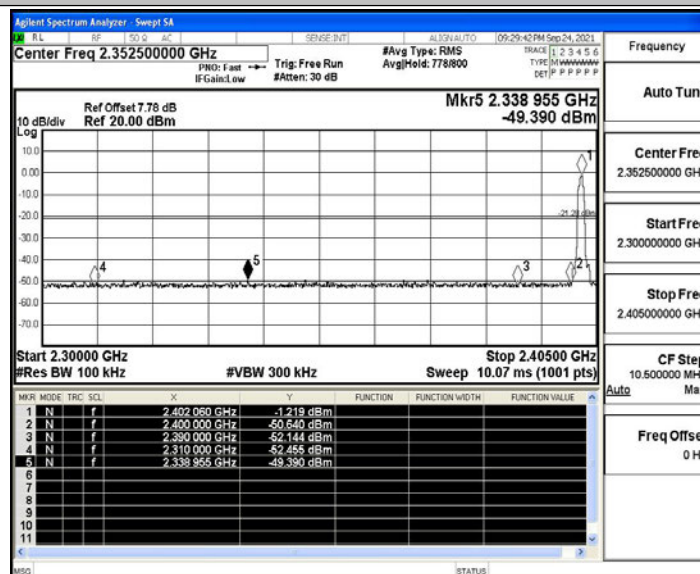
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

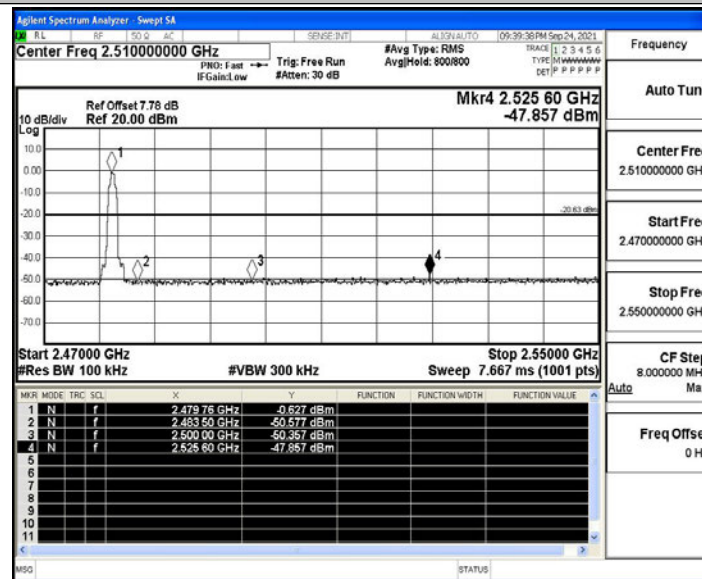


2DH5_Ant1_Low_2402

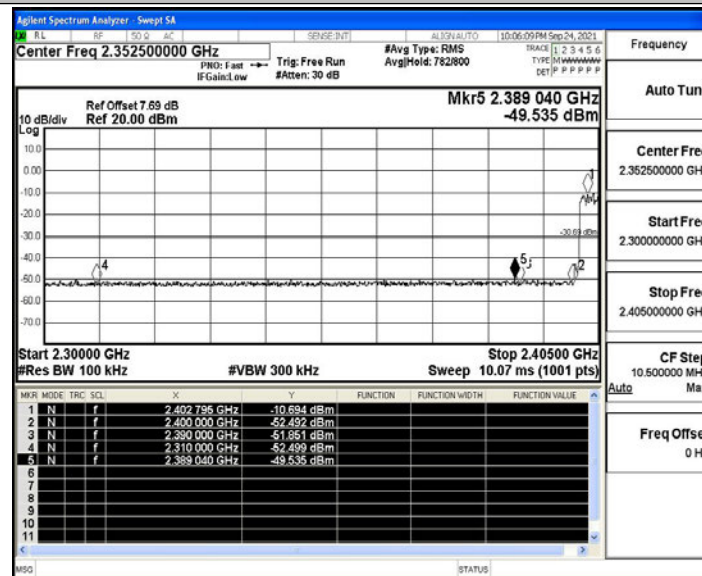




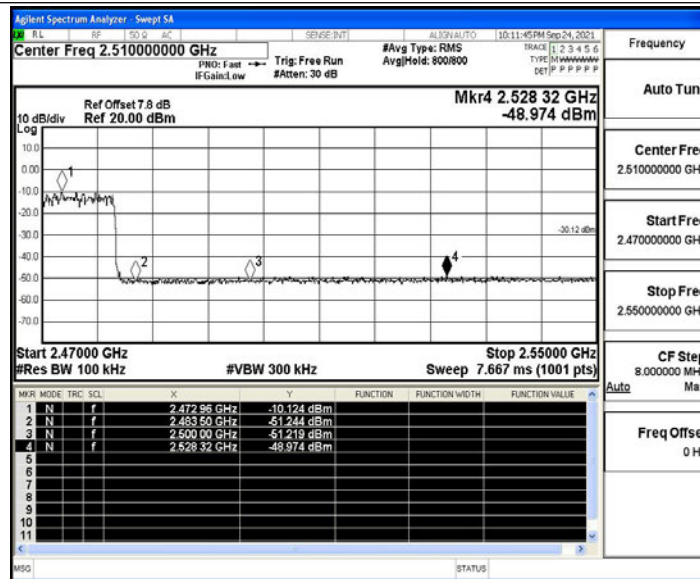
2DH5_Ant1_High_2480



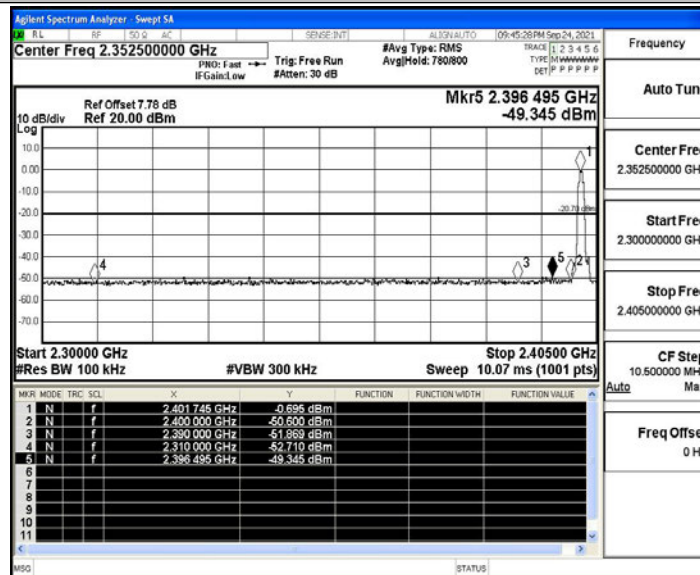
2DH5_Ant1_Low_Hop_2402



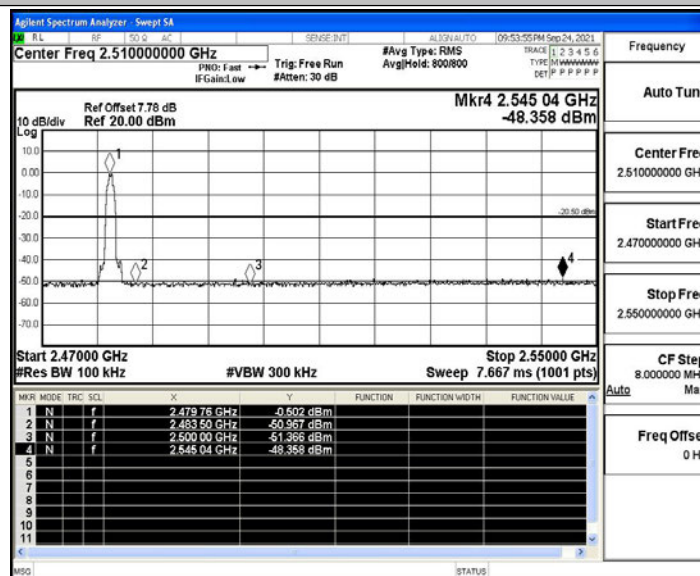
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

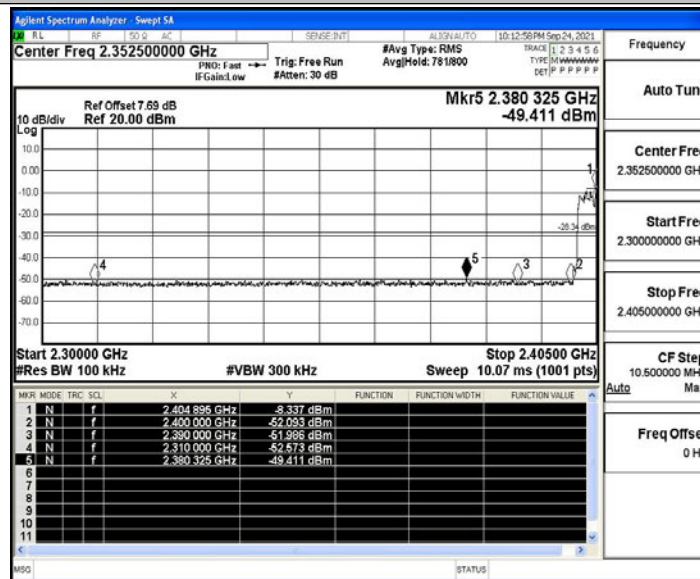


3DH5_Ant1_High_2480

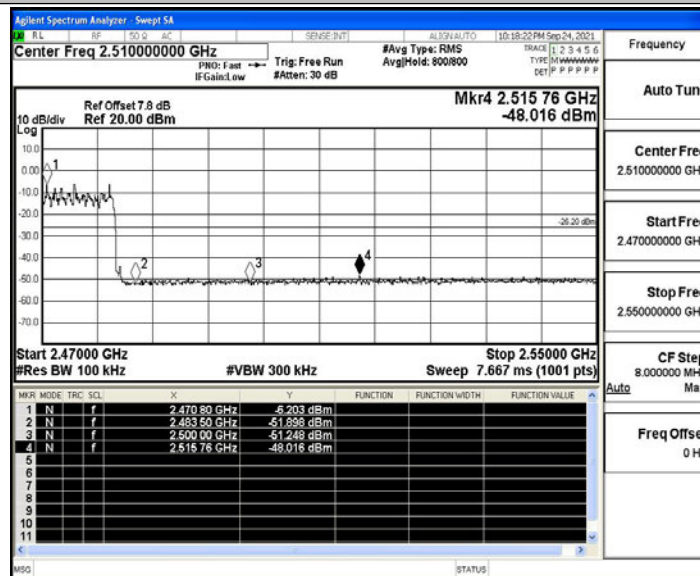




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

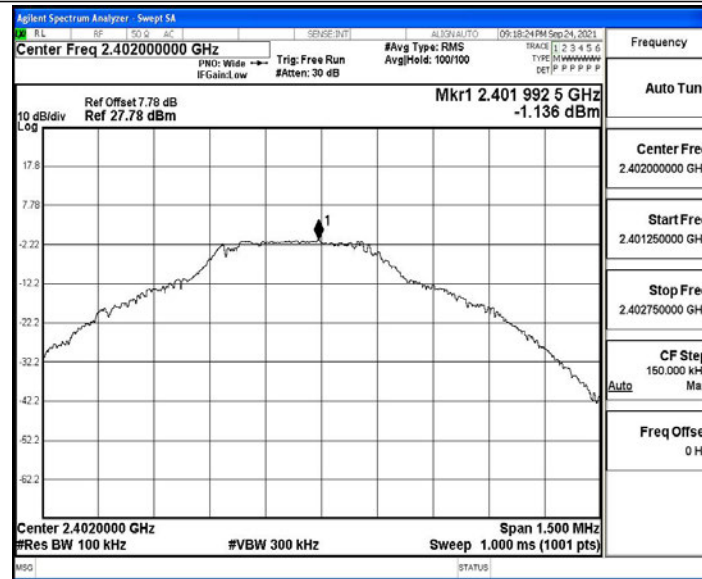
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.14	-1.14	---	PASS
			30~1000	-1.14	-61.72	≤ -21.14	PASS
			1000~26500	-1.14	-47.41	≤ -21.14	PASS
		2441	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-61.81	≤ -20.71	PASS
			1000~26500	-0.71	-48.01	≤ -20.71	PASS
		2480	Reference	-1.10	-1.10	---	PASS
			30~1000	-1.10	-61.63	≤ -21.1	PASS
			1000~26500	-1.10	-47.91	≤ -21.1	PASS
2DH5	Ant1	2402	Reference	-5.14	-5.14	---	PASS
			30~1000	-5.14	-60.72	≤ -25.14	PASS
			1000~26500	-5.14	-47.35	≤ -25.14	PASS
		2441	Reference	-3.10	-3.10	---	PASS
			30~1000	-3.10	-61.56	≤ -23.1	PASS
			1000~26500	-3.10	-47.72	≤ -23.1	PASS
		2480	Reference	-1.37	-1.37	---	PASS
			30~1000	-1.37	-61.34	≤ -21.37	PASS
			1000~26500	-1.37	-47.32	≤ -21.37	PASS
3DH5	Ant1	2402	Reference	-0.63	-0.63	---	PASS
			30~1000	-0.63	-61.57	≤ -20.63	PASS
			1000~26500	-0.63	-47.55	≤ -20.63	PASS
		2441	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-60.93	≤ -21.69	PASS
			1000~26500	-1.69	-47.02	≤ -21.69	PASS
		2480	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-61.9	≤ -20.71	PASS
			1000~26500	-0.71	-46.25	≤ -20.71	PASS

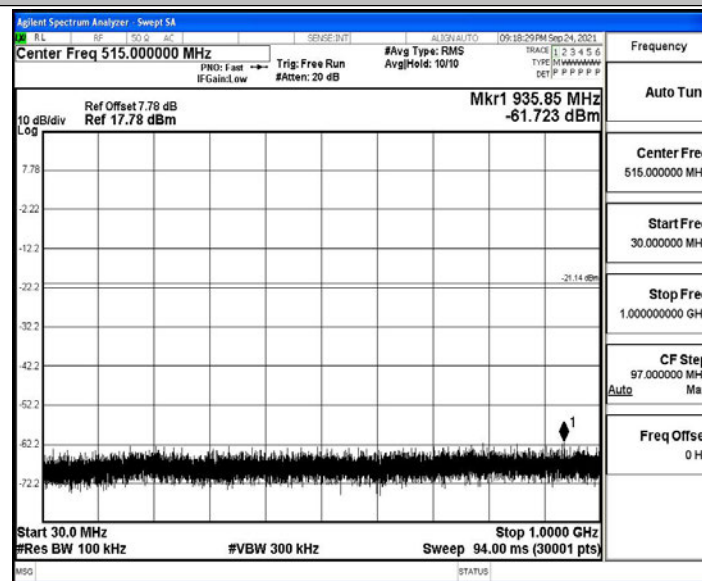


Test Graphs

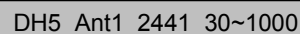
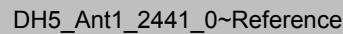
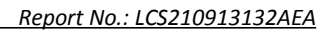
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000

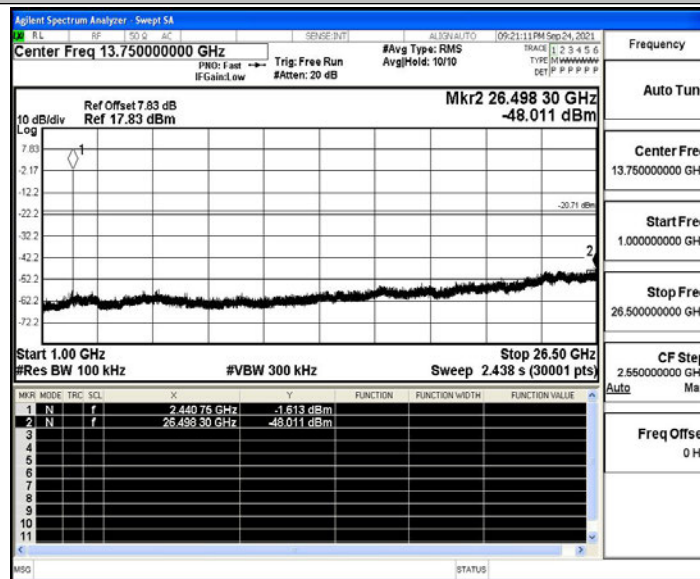


DH5_Ant1_2402_1000~26500

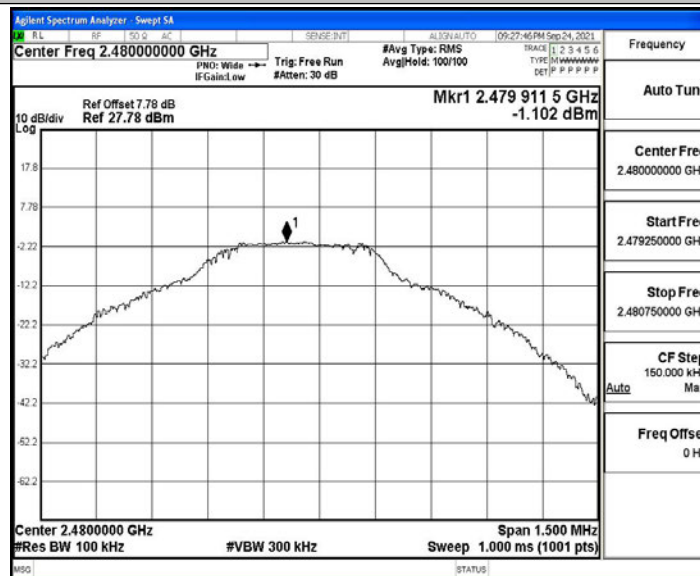




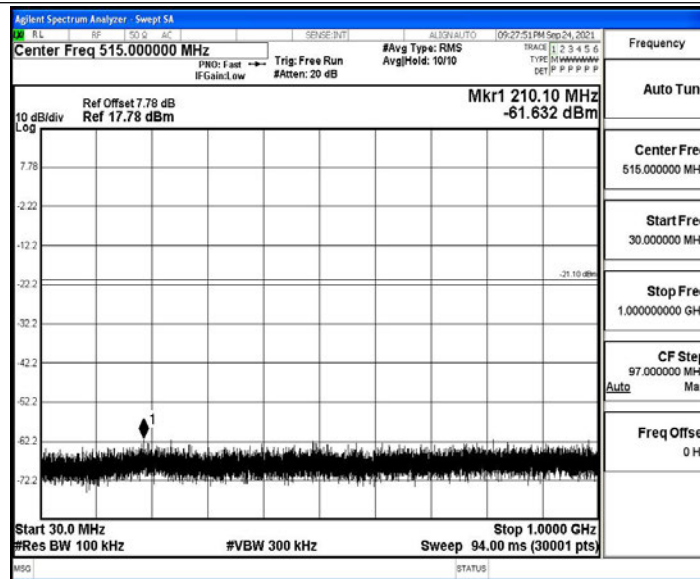
DH5_Ant1_2441_1000~26500



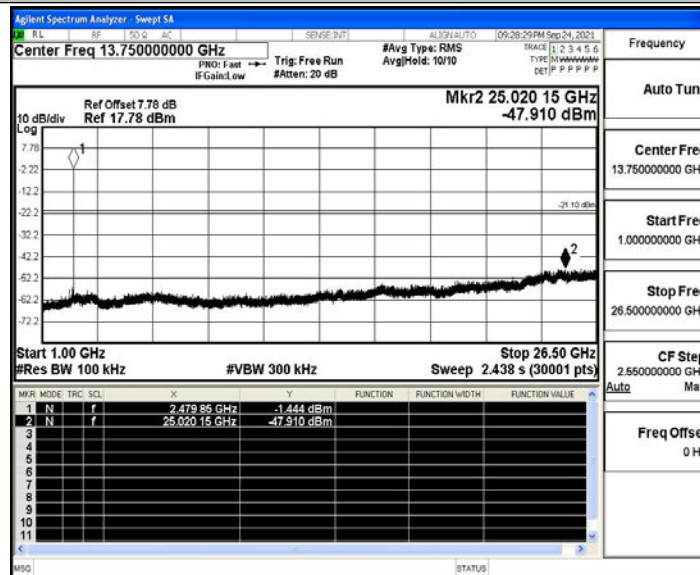
DH5_Ant1_2480_0~Reference



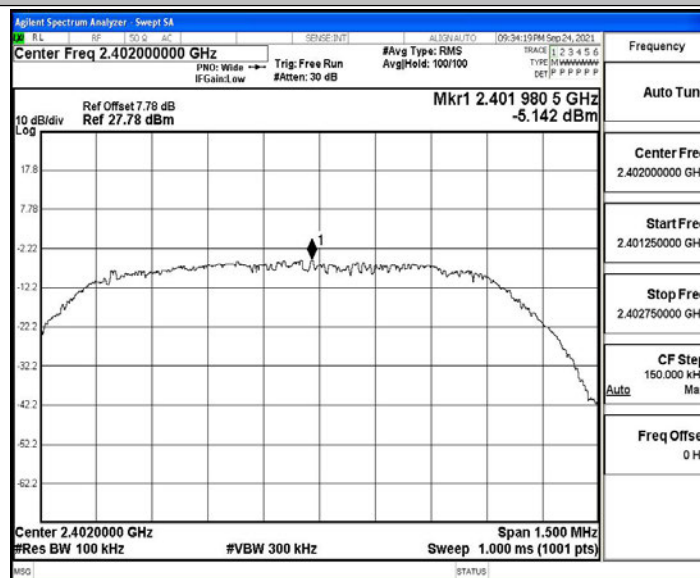
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

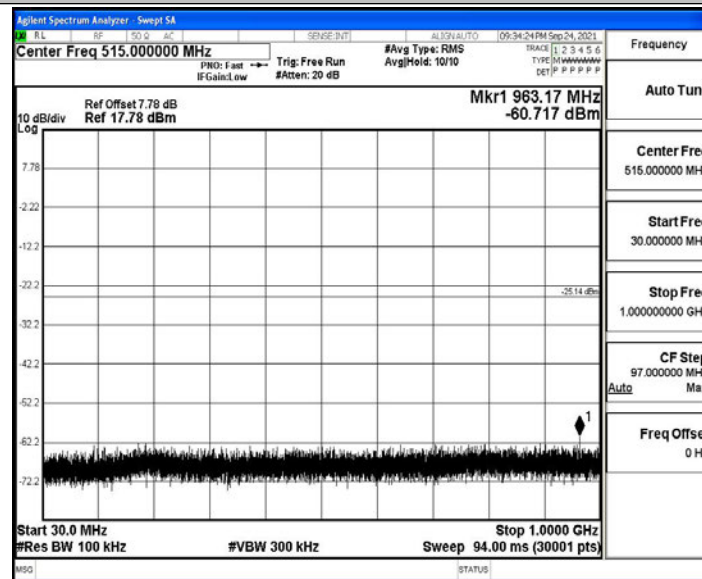


2DH5_Ant1_2402_0~Reference

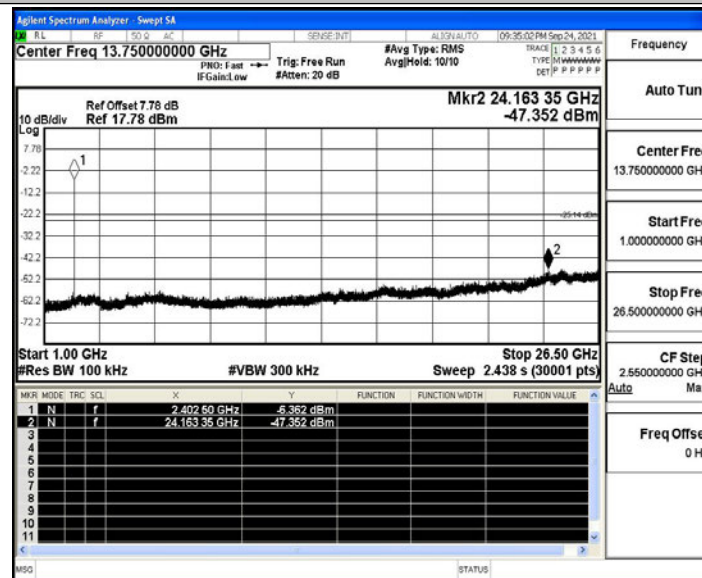




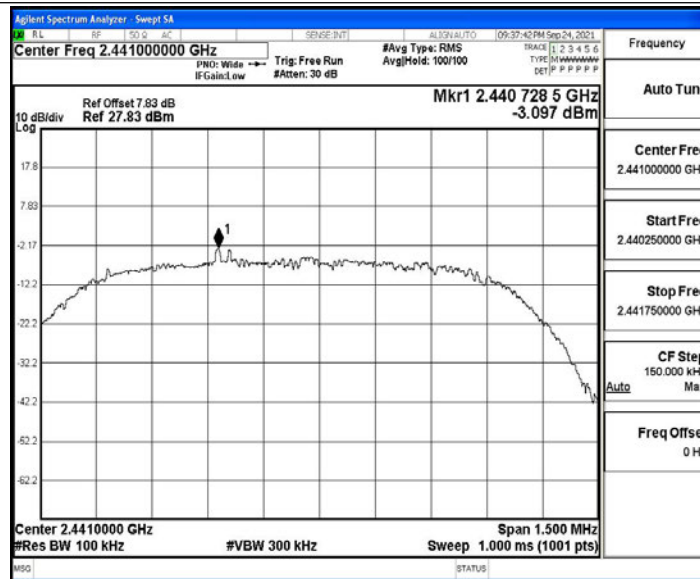
2DH5_Ant1_2402_30~1000



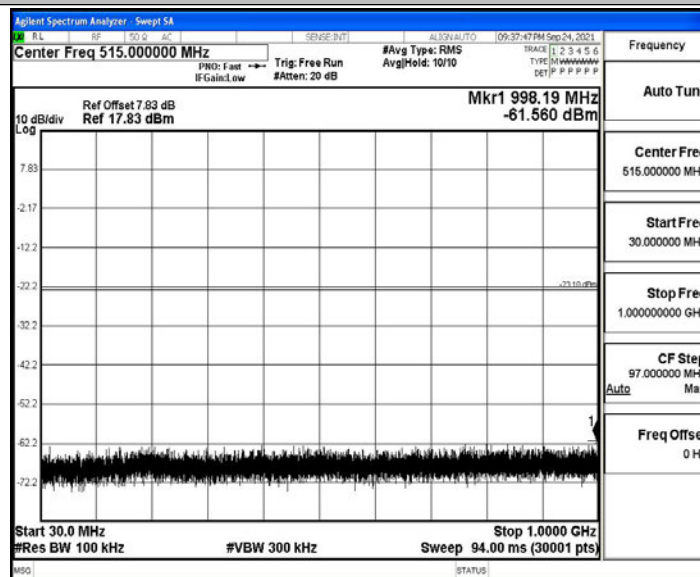
2DH5_Ant1_2402_1000~26500



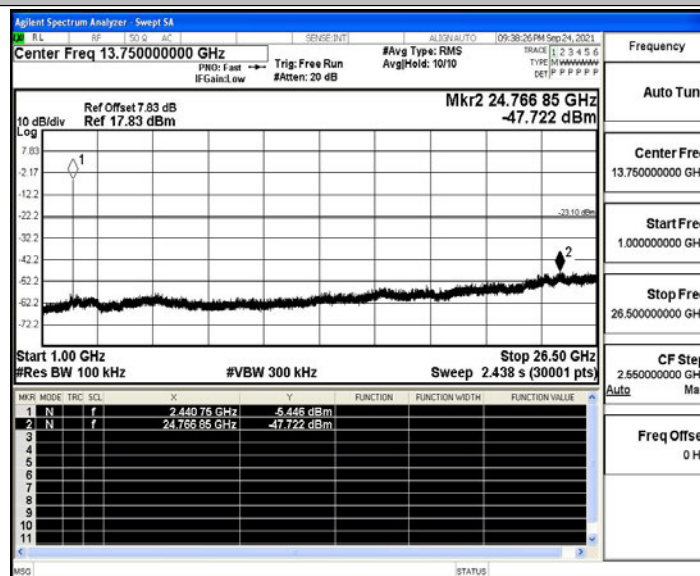
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

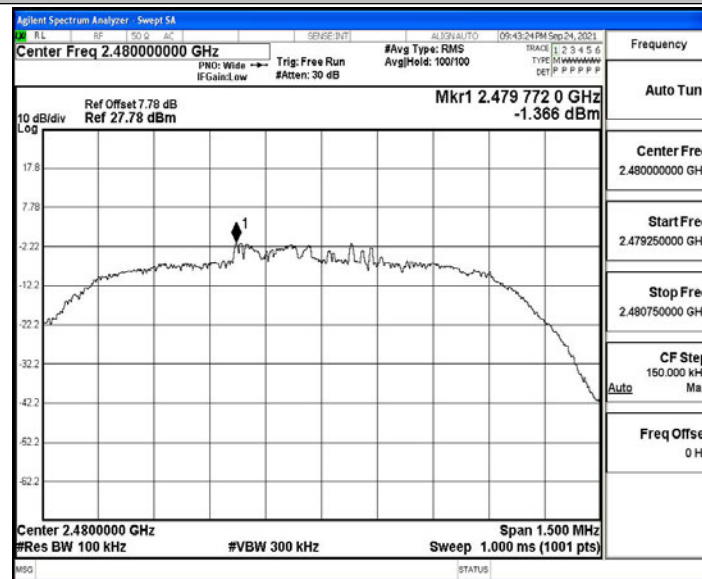


2DH5_Ant1_2441_1000~26500

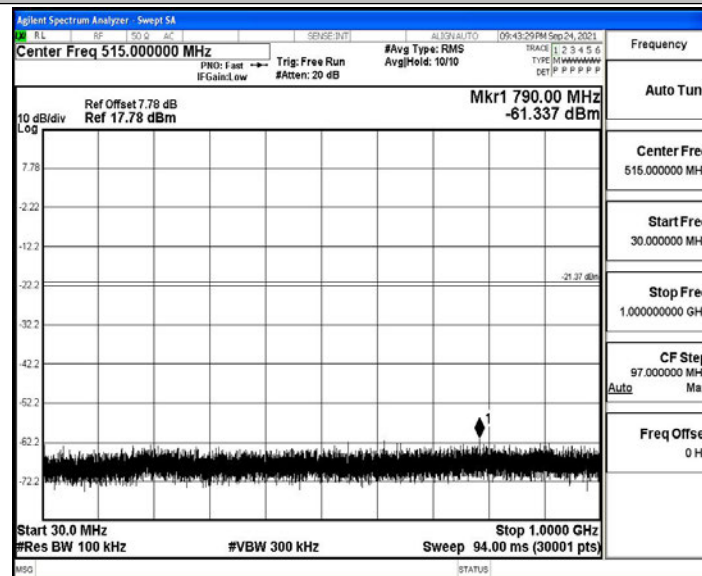




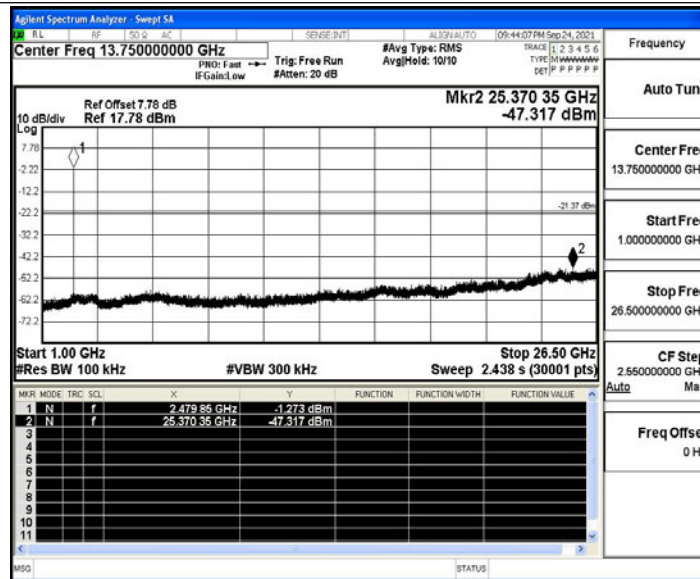
2DH5_Ant1_2480_0~Reference



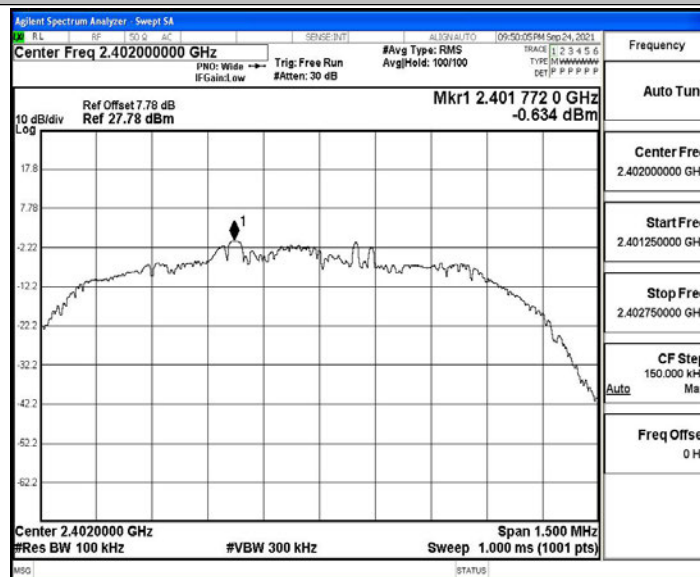
2DH5_Ant1_2480_30~1000



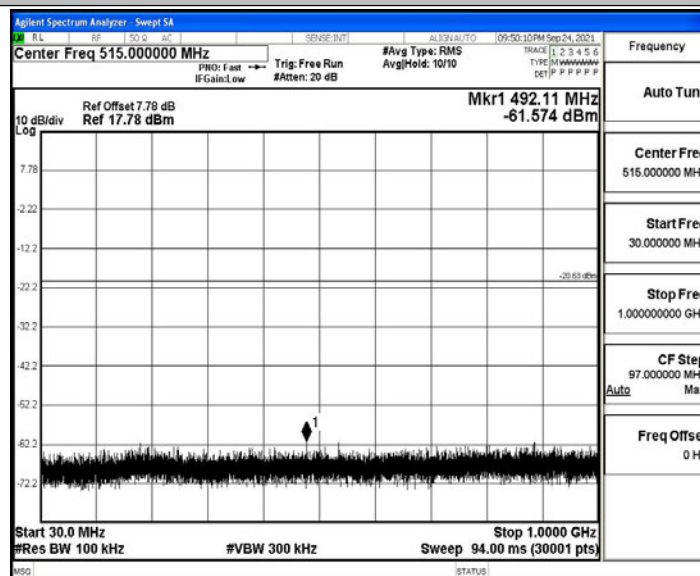
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

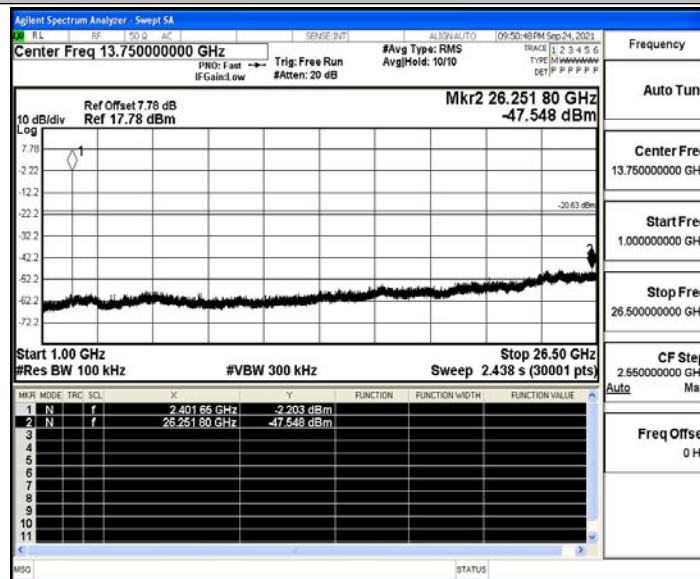


3DH5_Ant1_2402_30~1000

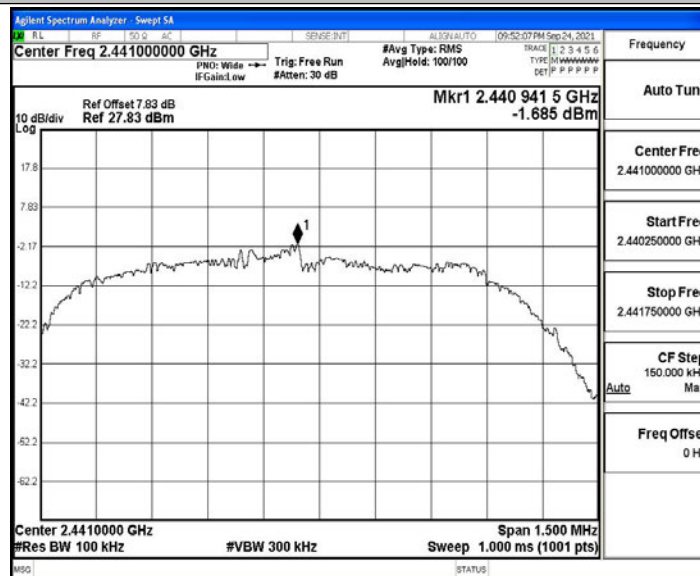




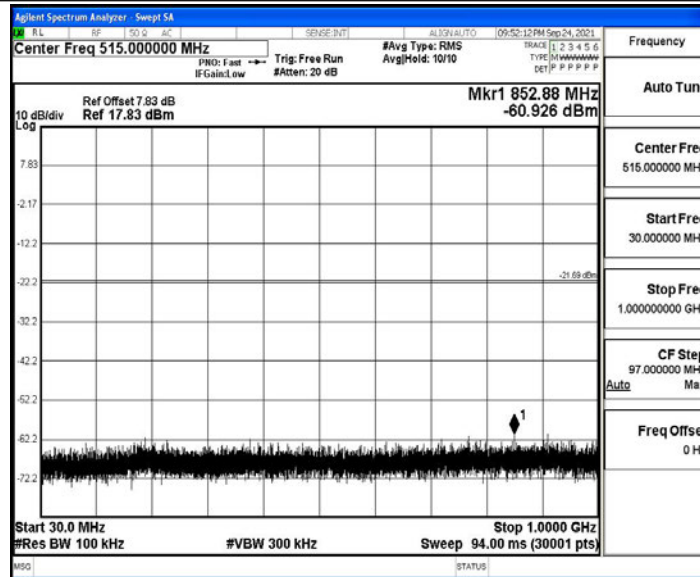
3DH5_Ant1_2402_1000~26500



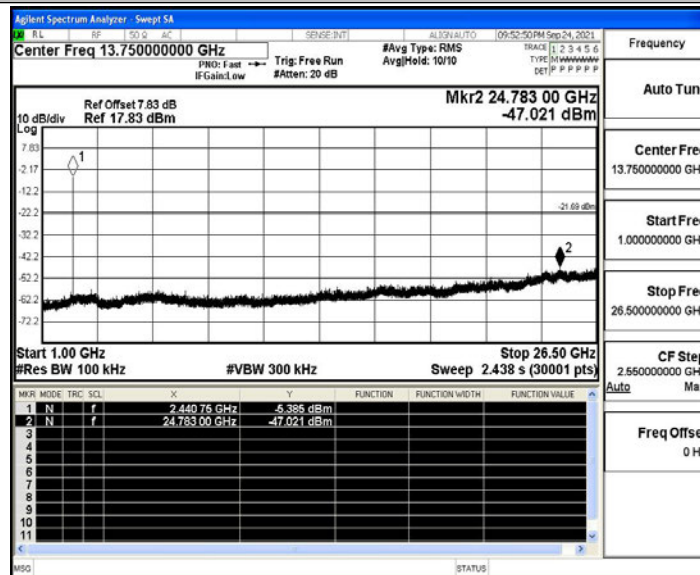
3DH5_Ant1_2441_0~Reference



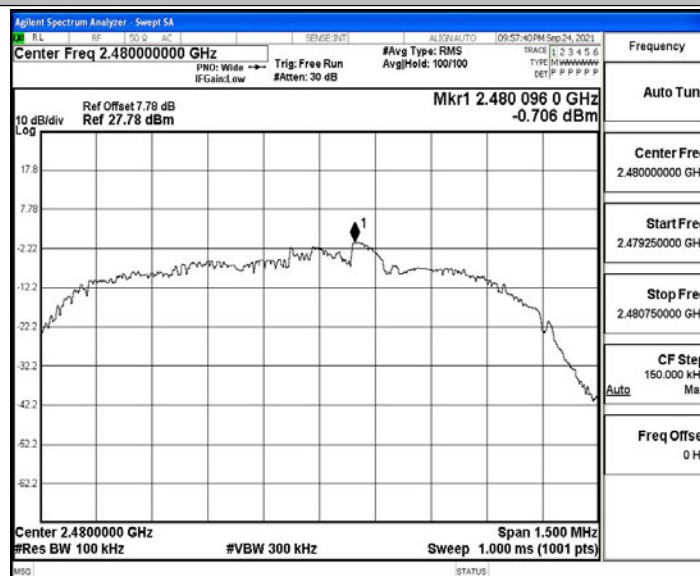
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

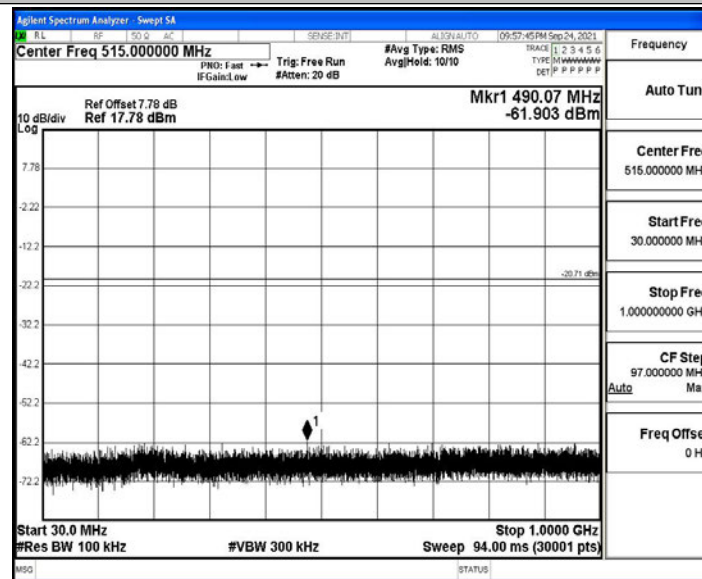


3DH5_Ant1_2480_0~Reference

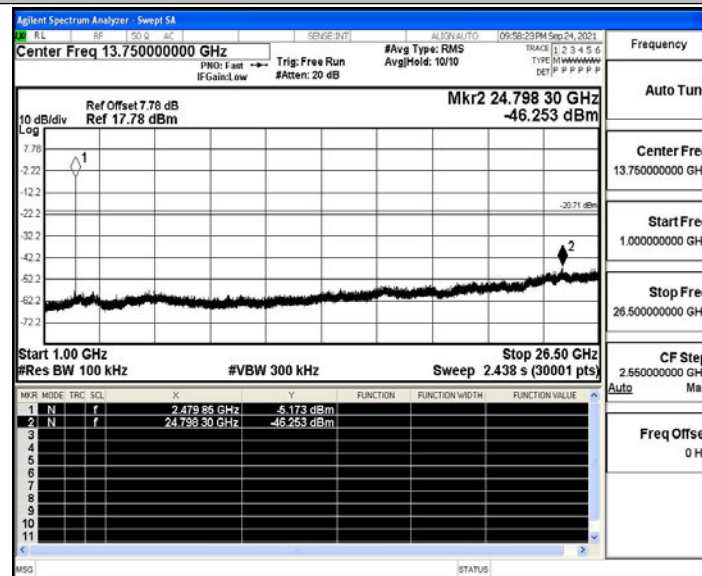




3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500





A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.59	≤-41.20	46.61	≤54	PASS
				AV	2357.225	-47.99	≤-41.20	47.21	≤54	PASS
				AV	2390.000	-48.52	≤-41.20	46.68	≤54	PASS
				Peak	2310.000	-39.83	≤-21.20	55.37	≤74	PASS
				Peak	2312.495	-38.3	≤-21.20	56.90	≤74	PASS
				Peak	2390.000	-40.46	≤-21.20	54.74	≤74	PASS
		High	2480	AV	2483.500	-47.95	≤-41.20	47.25	≤54	PASS
				AV	2499.200	-47.84	≤-41.20	47.36	≤54	PASS
				AV	2500.000	-47.9	≤-41.20	47.30	≤54	PASS
				Peak	2483.500	-39.43	≤-21.20	55.77	≤74	PASS
				Peak	2488.640	-37.13	≤-21.20	58.07	≤74	PASS
				Peak	2500.000	-40.18	≤-21.20	55.02	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.73	≤-41.20	46.47	≤54	PASS
				AV	2357.330	-48.31	≤-41.20	46.89	≤54	PASS
				AV	2390.000	-48.49	≤-41.20	46.71	≤54	PASS
				Peak	2310.000	-40.78	≤-21.20	54.42	≤74	PASS
				Peak	2368.565	-37.42	≤-21.20	57.78	≤74	PASS
				Peak	2390.000	-40.05	≤-21.20	55.15	≤74	PASS
		High	2480	AV	2483.500	-47.84	≤-41.20	47.36	≤54	PASS
				AV	2483.520	-47.84	≤-41.20	47.36	≤54	PASS
				AV	2500.000	-47.93	≤-41.20	47.27	≤54	PASS
				Peak	2483.500	-39.48	≤-21.20	55.72	≤74	PASS
				Peak	2489.360	-37.73	≤-21.20	57.47	≤74	PASS
				Peak	2500.000	-39.77	≤-21.20	55.43	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.77	≤-41.20	46.43	≤54	PASS
				AV	2357.120	-48.28	≤-41.20	46.92	≤54	PASS
				AV	2390.000	-48.54	≤-41.20	46.66	≤54	PASS
				Peak	2310.000	-41.21	≤-21.20	53.99	≤74	PASS
				Peak	2326.670	-38.02	≤-21.20	57.18	≤74	PASS
				Peak	2390.000	-39.39	≤-21.20	55.81	≤74	PASS
		High	2480	AV	2483.500	-47.91	≤-41.20	47.29	≤54	PASS
				AV	2498.640	-47.82	≤-41.20	47.38	≤54	PASS
				AV	2500.000	-47.99	≤-41.20	47.21	≤54	PASS
				Peak	2483.500	-39.46	≤-21.20	55.74	≤74	PASS
				Peak	2485.600	-37.63	≤-21.20	57.57	≤74	PASS



				Peak	2500.000	-39.32	≤-21.20	55.88	≤74	PASS
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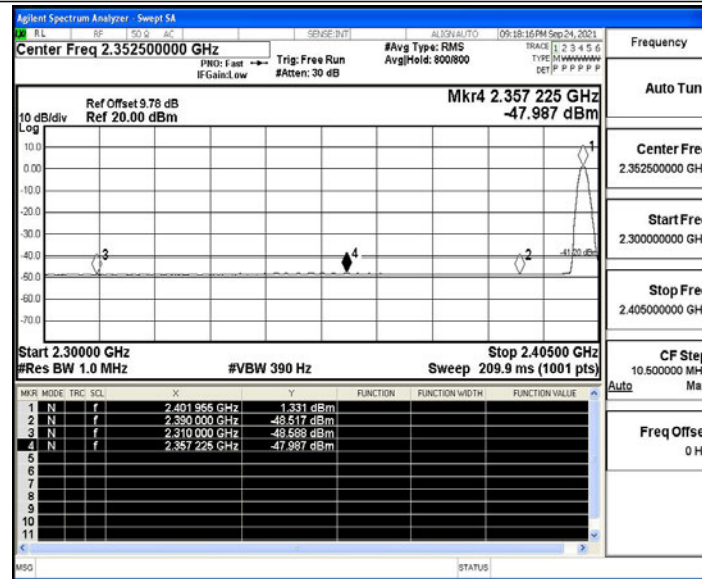
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

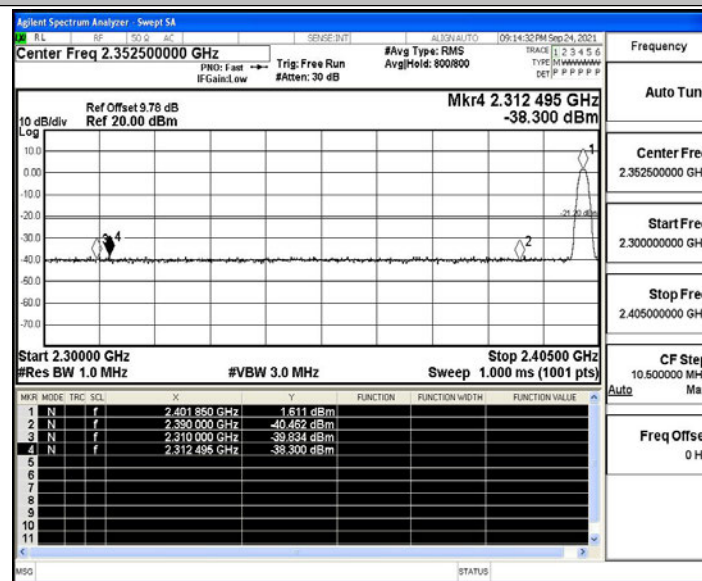


Test Graphs

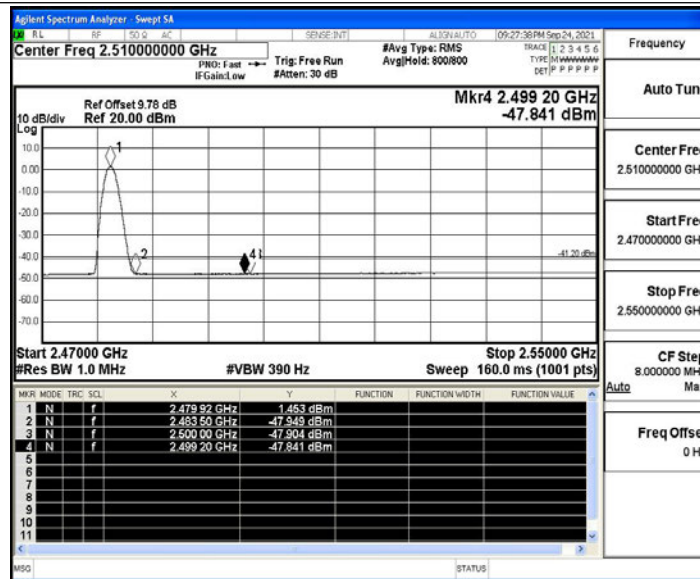
DH5_Ant1_Low_2402_AV



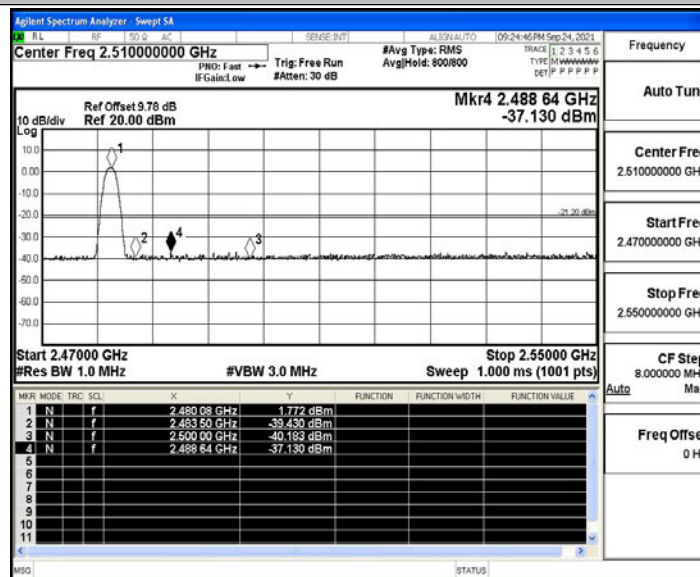
DH5_Ant1_Low_2402_Peak



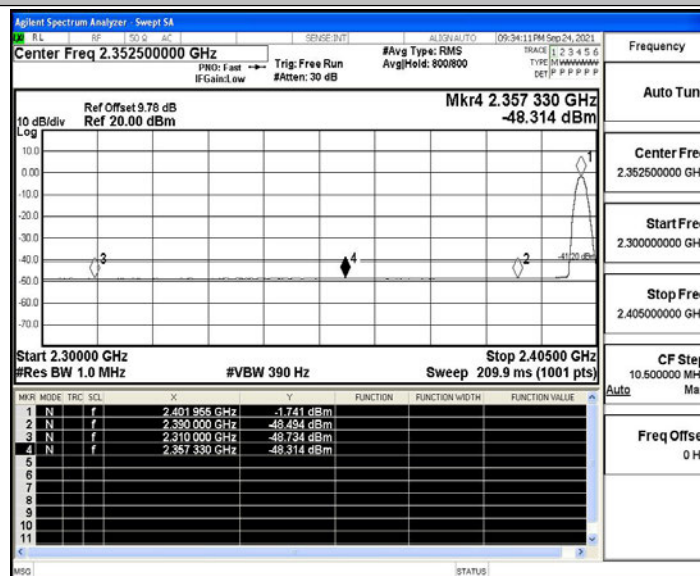
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

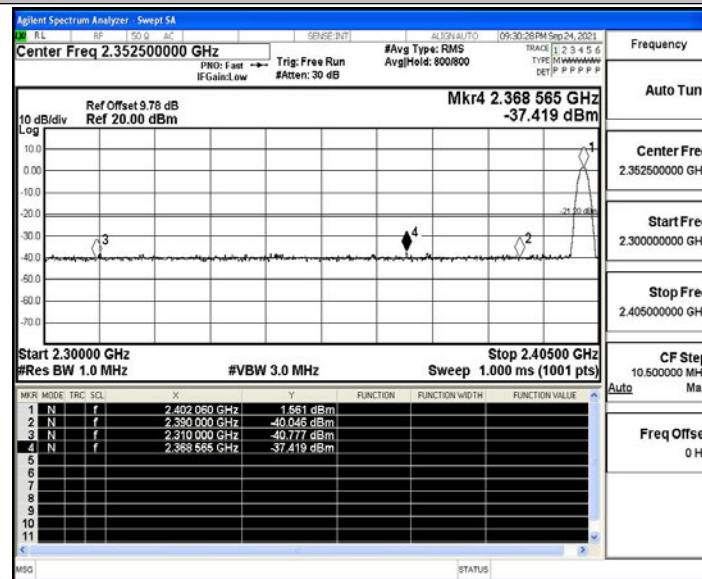


2DH5_Ant1_Low_2402_AV

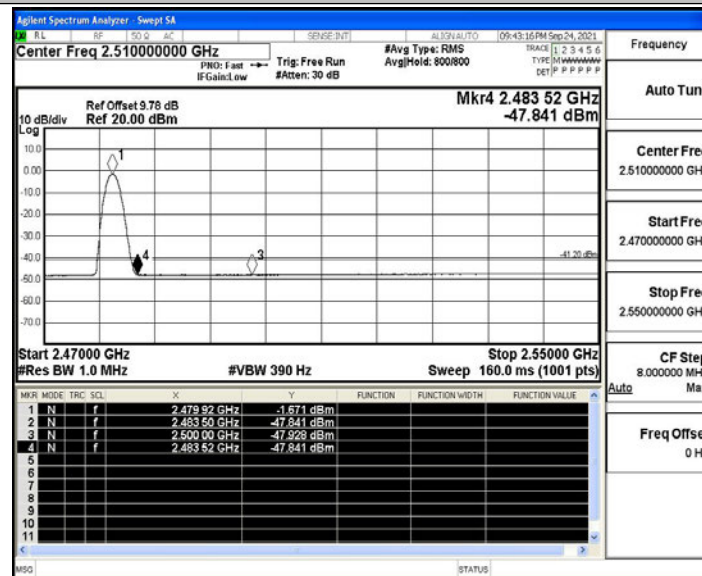




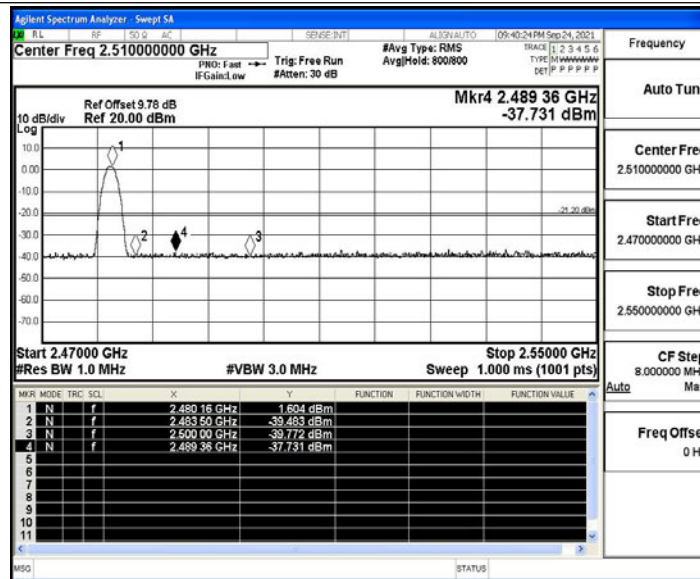
2DH5_Ant1_Low_2402_Peak



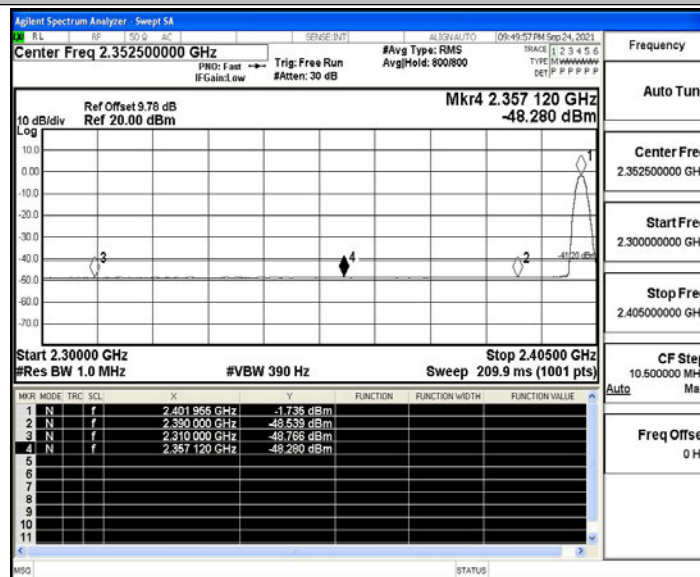
2DH5_Ant1_High_2480_AV



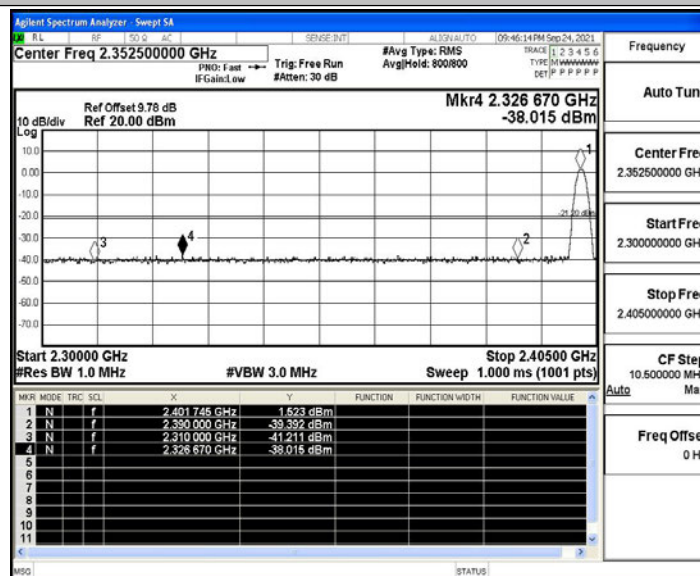
2DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_2402_AV

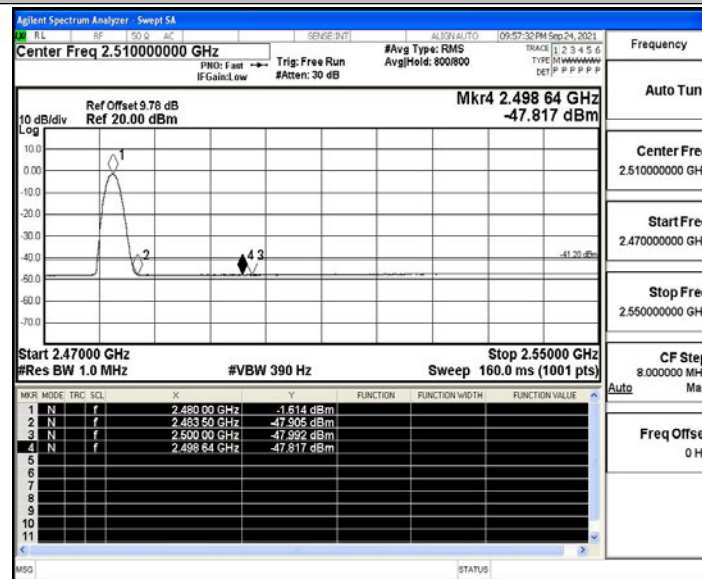


3DH5_Ant1_Low_2402_Peak





3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

