



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Massage chair

Test Model: CGMEMCG-2301

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Joker Hu
Supervised by:	Nick Peng



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Scan code to check authenticity



A.1 20dB Emission Bandwidth

Test Result

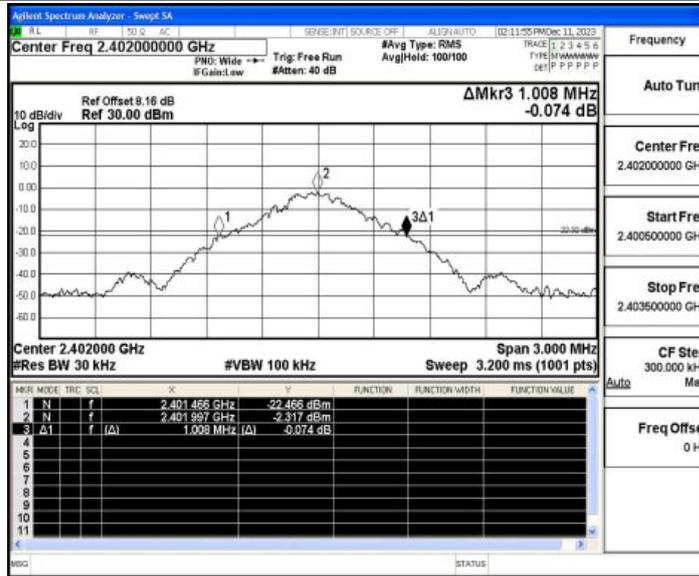
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.008	2401.466	2402.474	---
		2441	1.023	2440.457	2441.480	---
		2480	1.026	2479.460	2480.486	---
2DH5	Ant1	2402	1.329	2401.322	2402.651	---
		2441	1.299	2440.349	2441.648	---
		2480	1.290	2479.352	2480.642	---
3DH5	Ant1	2402	1.302	2401.343	2402.645	---
		2441	1.296	2440.334	2441.630	---
		2480	1.329	2479.328	2480.657	---



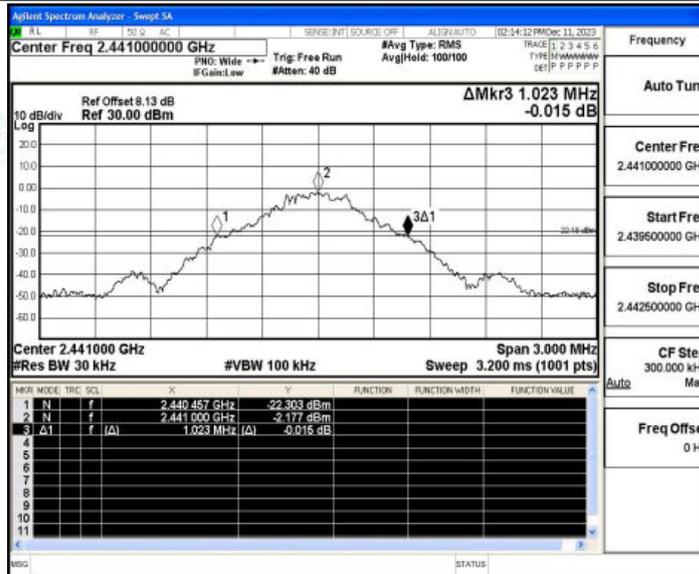


Test Graphs

DH5_Ant1_2402

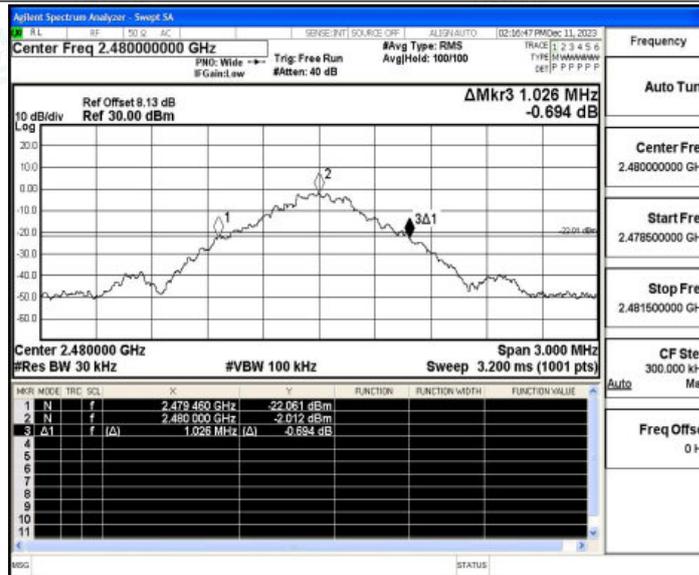


DH5_Ant1_2441

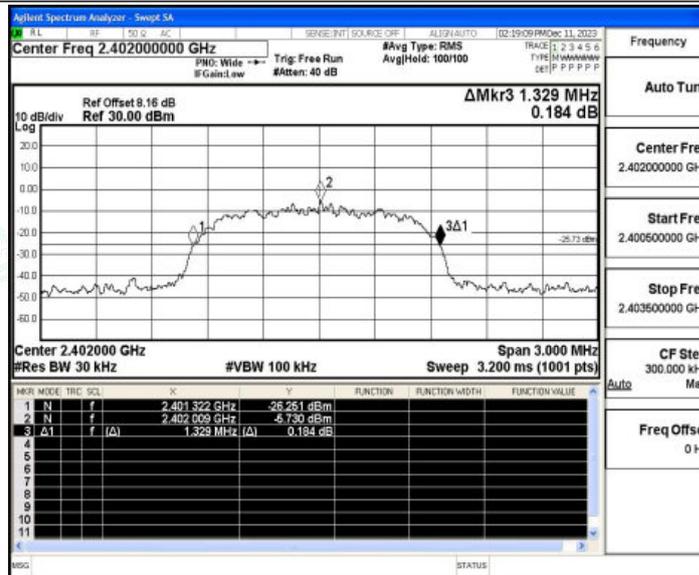


DH5_Ant1_2480



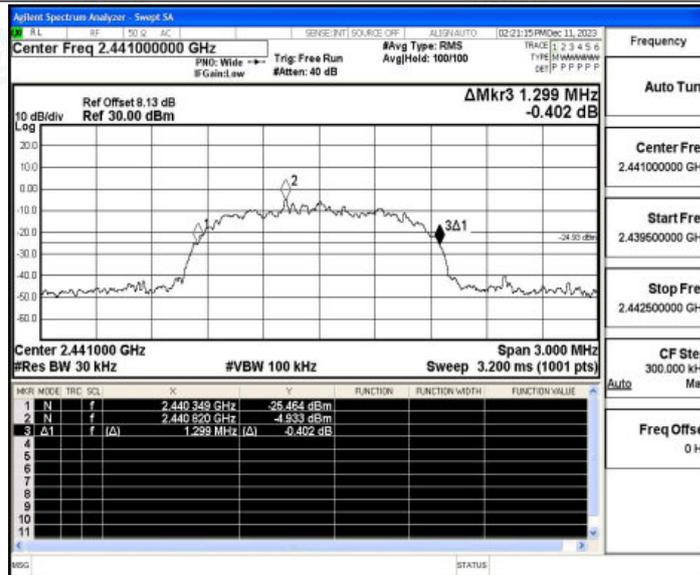


2DH5_Ant1_2402

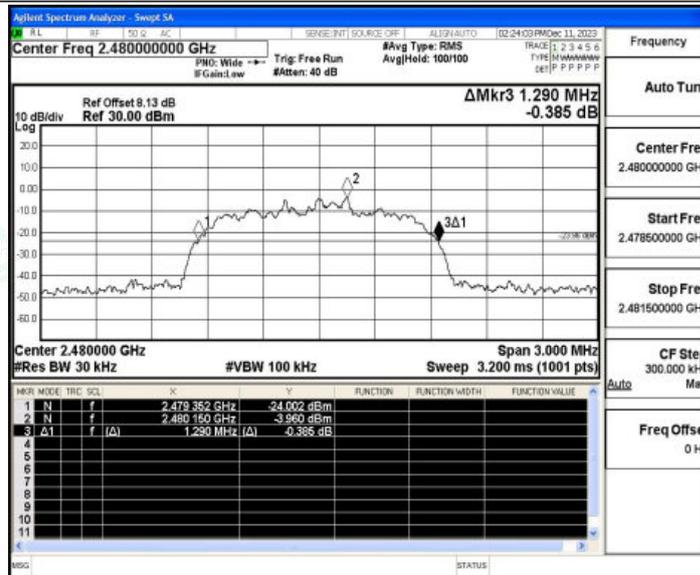


2DH5_Ant1_2441



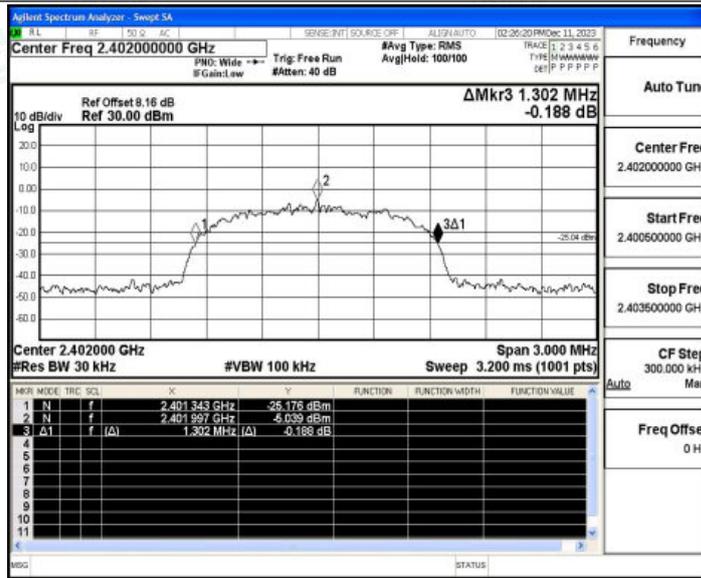


2DH5_Ant1_2480

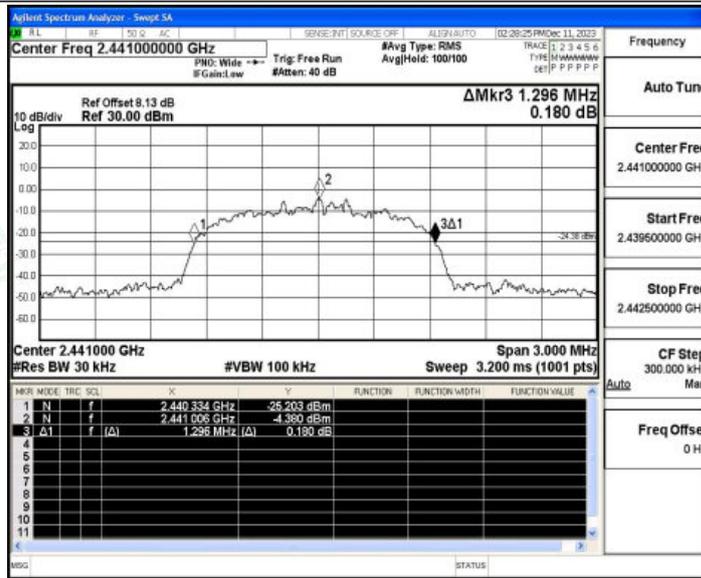


3DH5_Ant1_2402



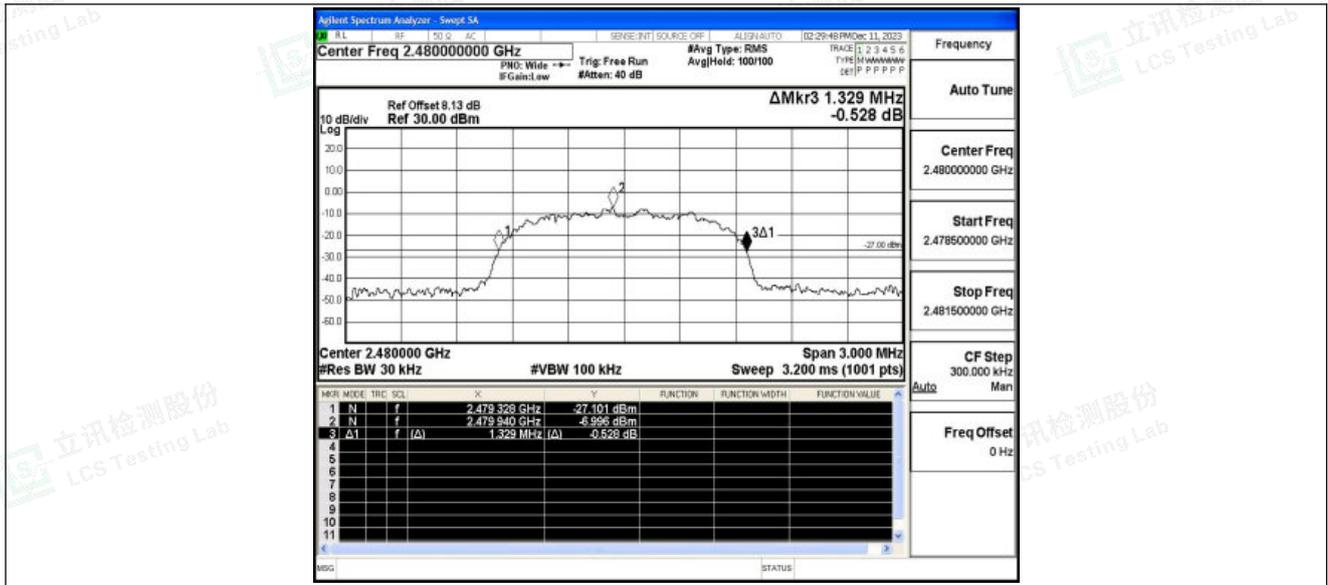


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.79	≤20.97	PASS
		2441	0.9	≤20.97	PASS
		2480	1	≤20.97	PASS
2DH5	Ant1	2402	0.49	≤20.97	PASS
		2441	0.47	≤20.97	PASS
		2480	0.59	≤20.97	PASS
3DH5	Ant1	2402	0.49	≤20.97	PASS
		2441	0.63	≤20.97	PASS
		2480	0.8	≤20.97	PASS

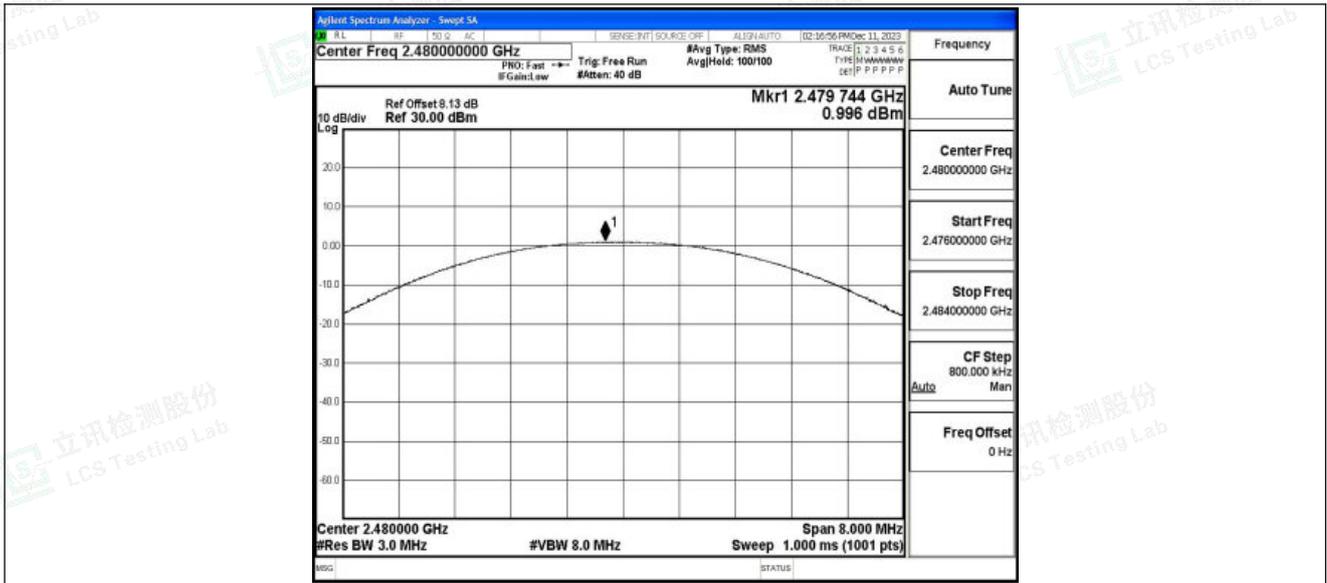


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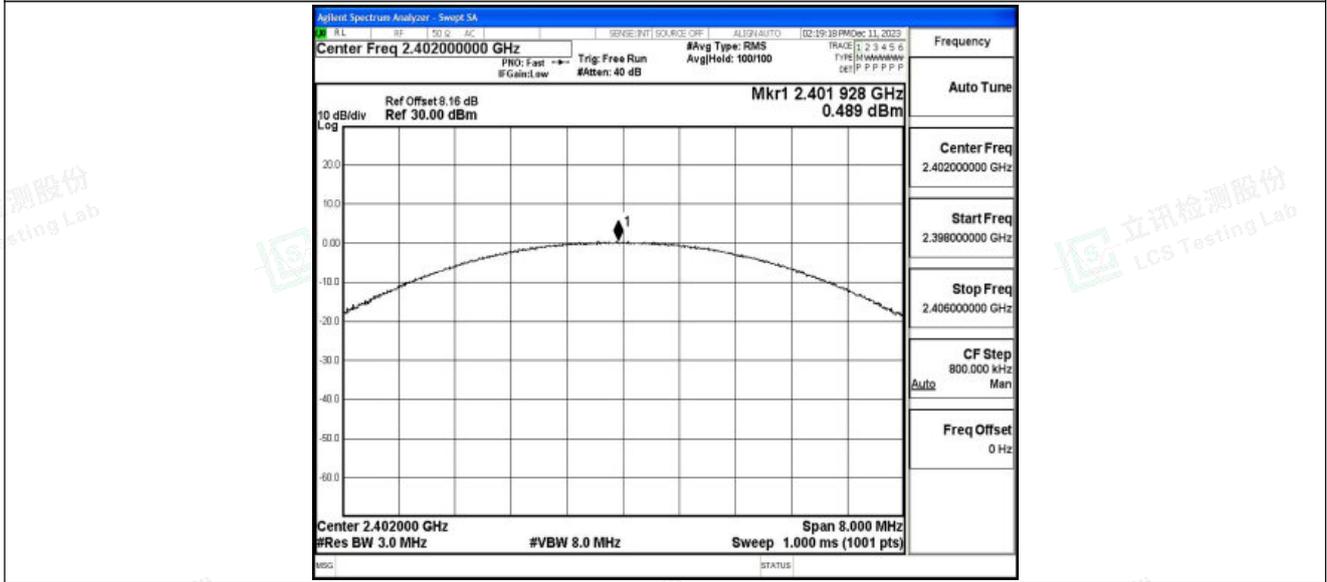
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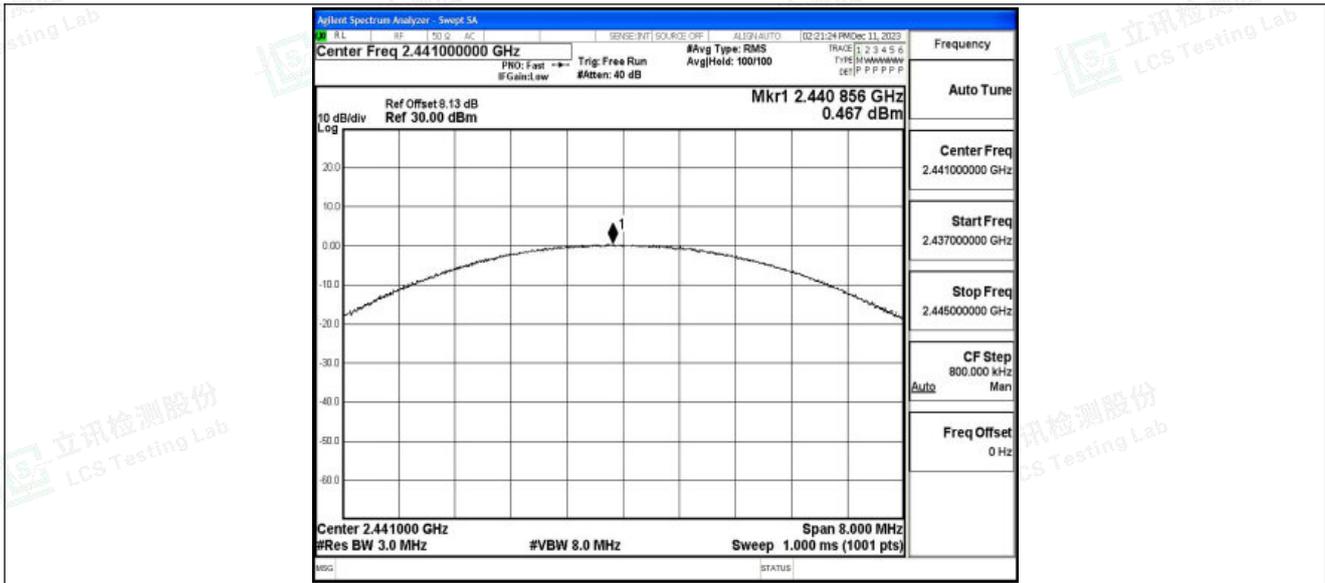


2DH5_Ant1_2402

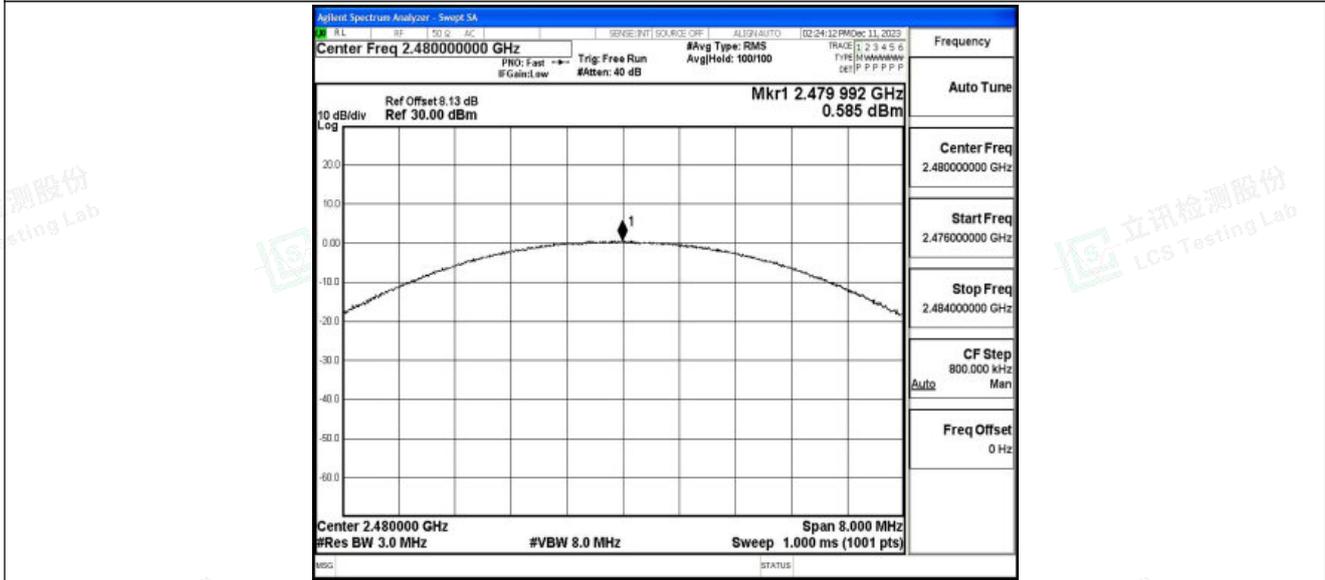


2DH5_Ant1_2441



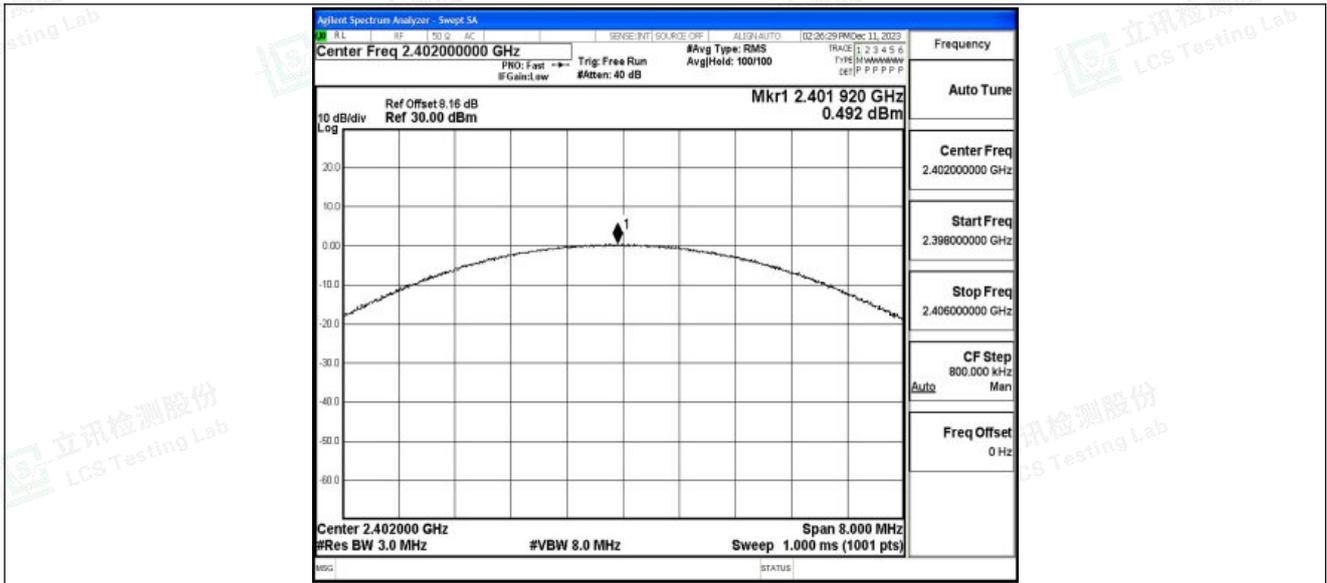


2DH5_Ant1_2480

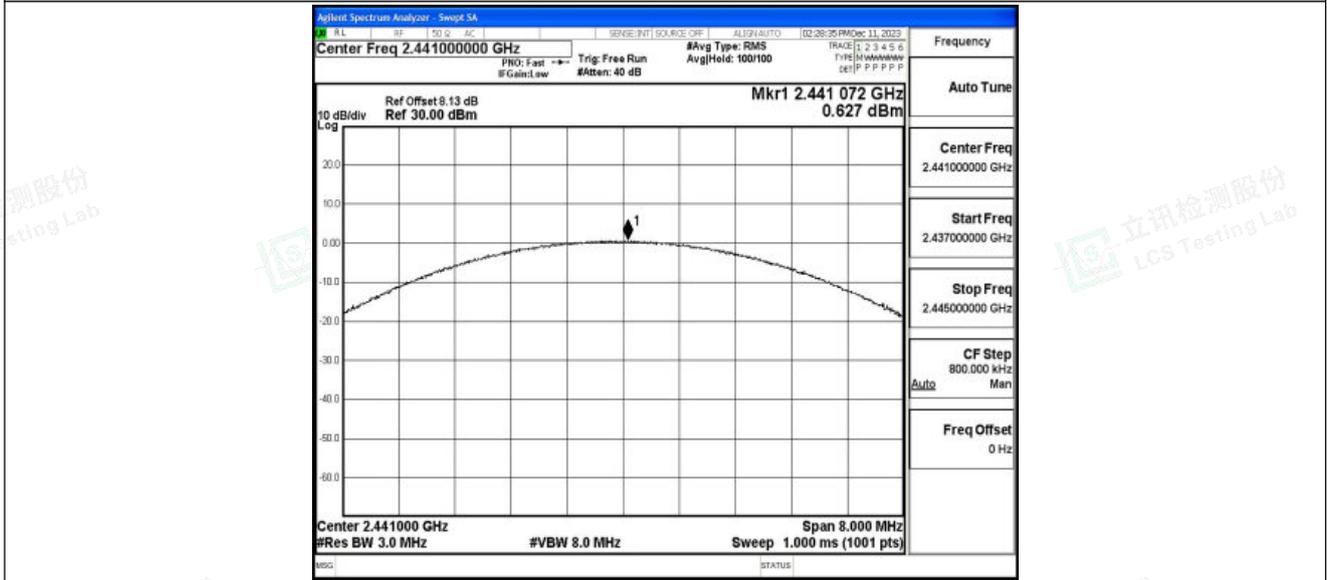


3DH5_Ant1_2402



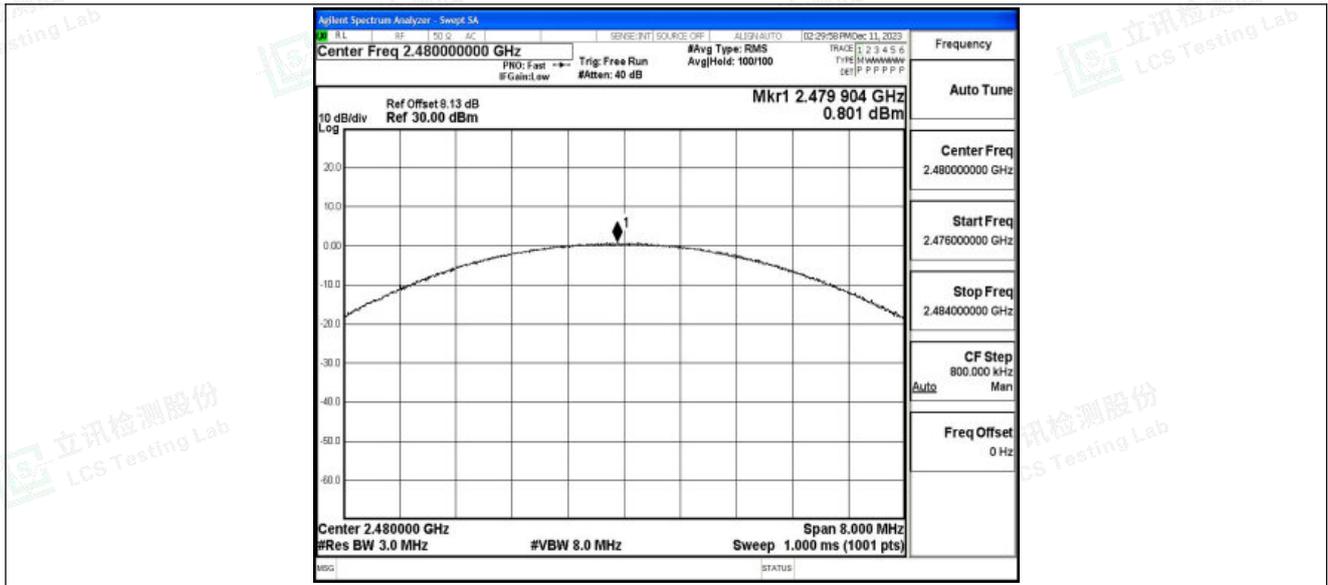


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

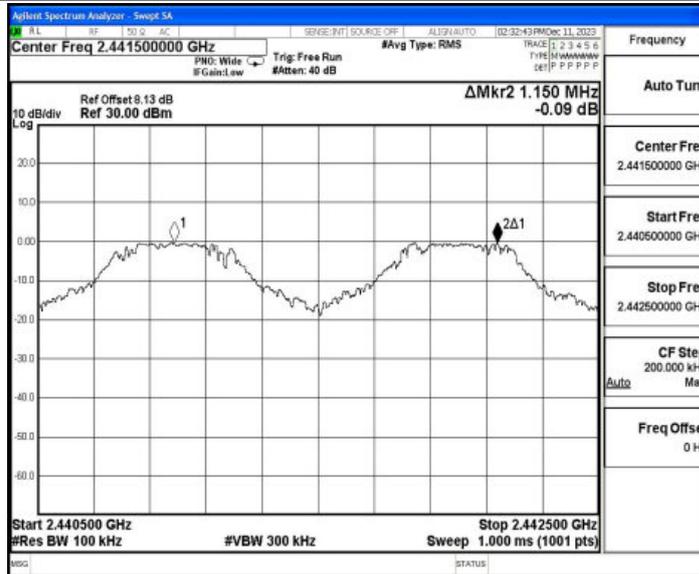
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.15	≥0.684	PASS
2DH5	Ant1	Hop	1.204	≥0.886	PASS
3DH5	Ant1	Hop	0.928	≥0.886	PASS



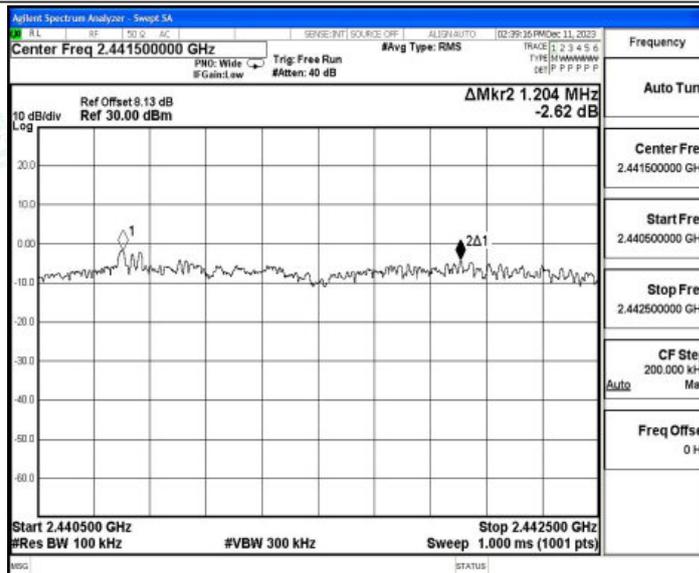


Test Graphs

DH5_Ant1_Hop

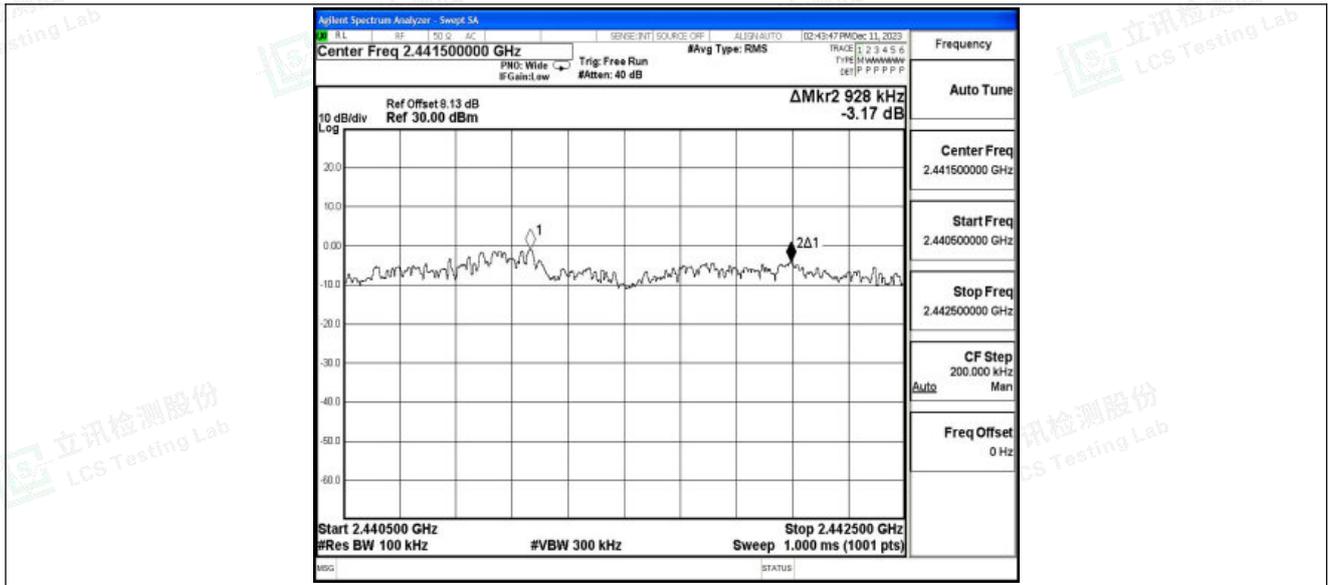


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.4 Time of occupancy

Test Result

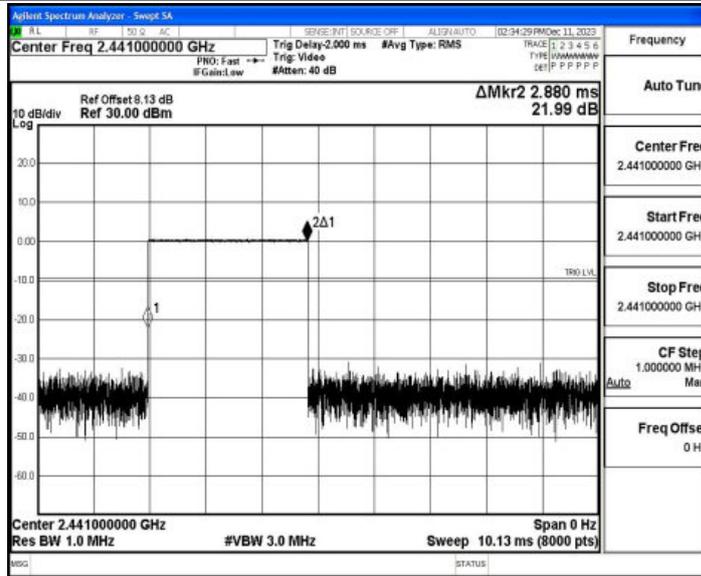
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS



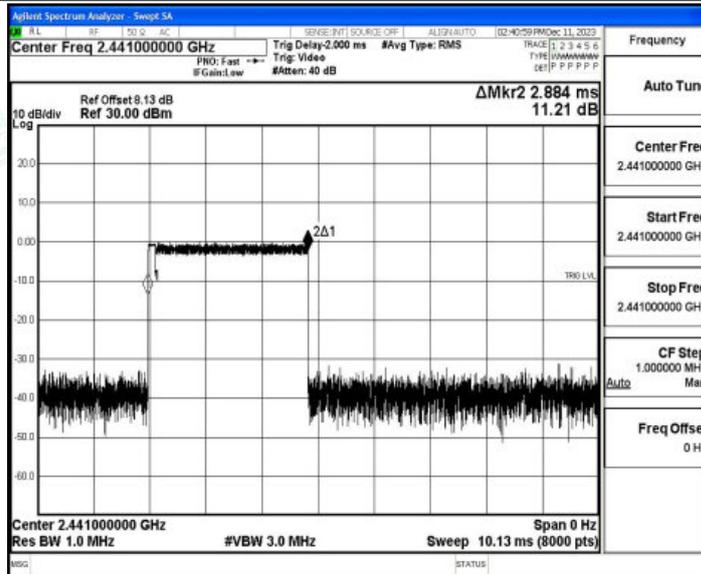


Test Graphs

DH5_Ant1_Hop

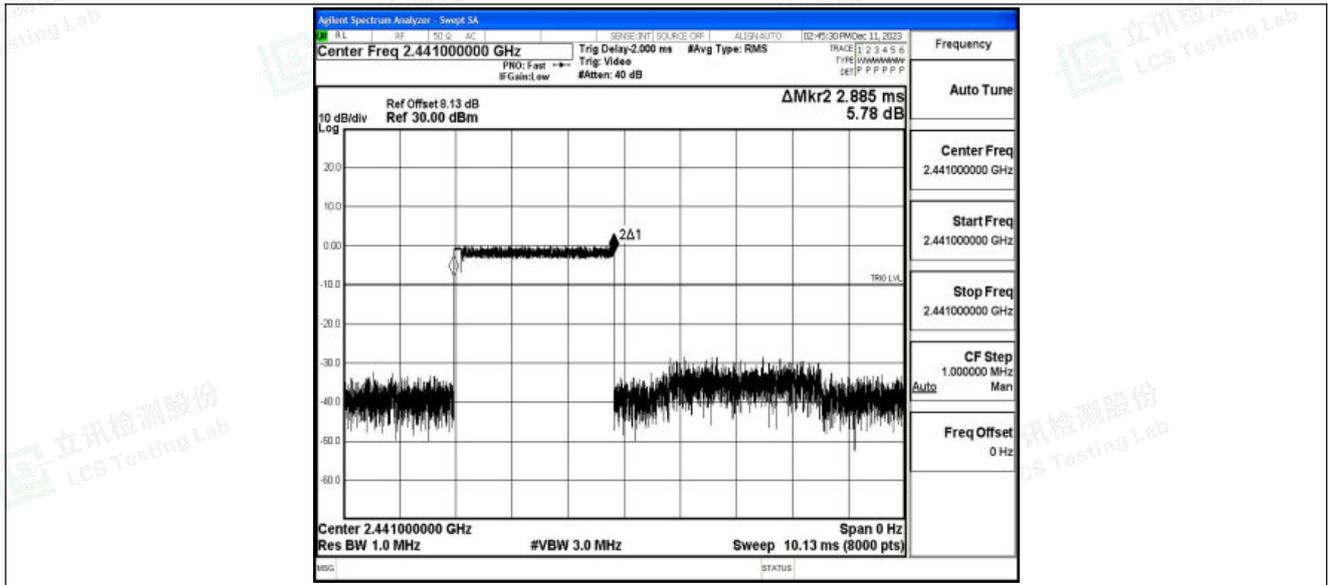


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.5 Number of hopping channels

Test Result

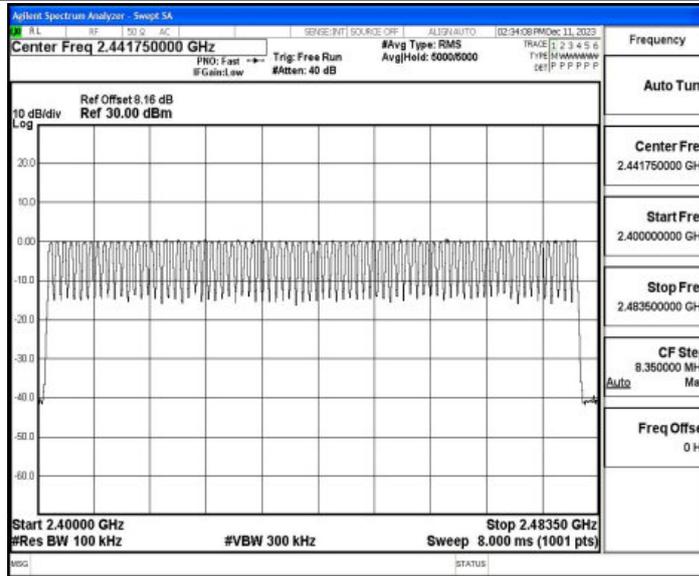
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



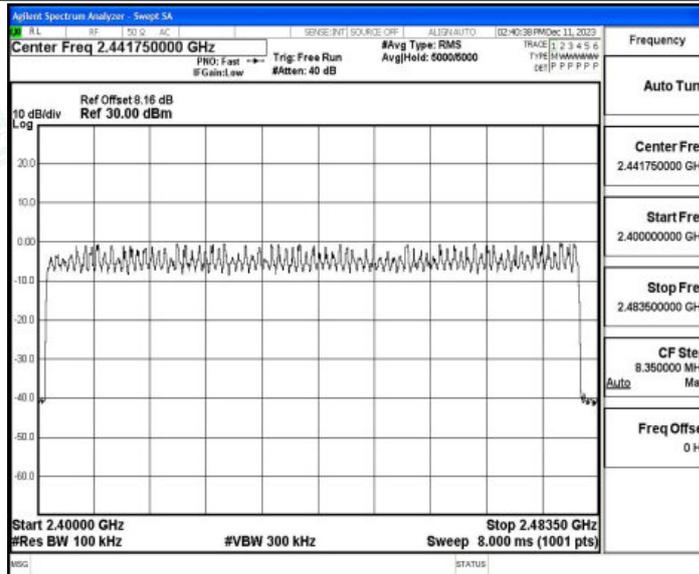


Test Graphs

DH5_Ant1_Hop

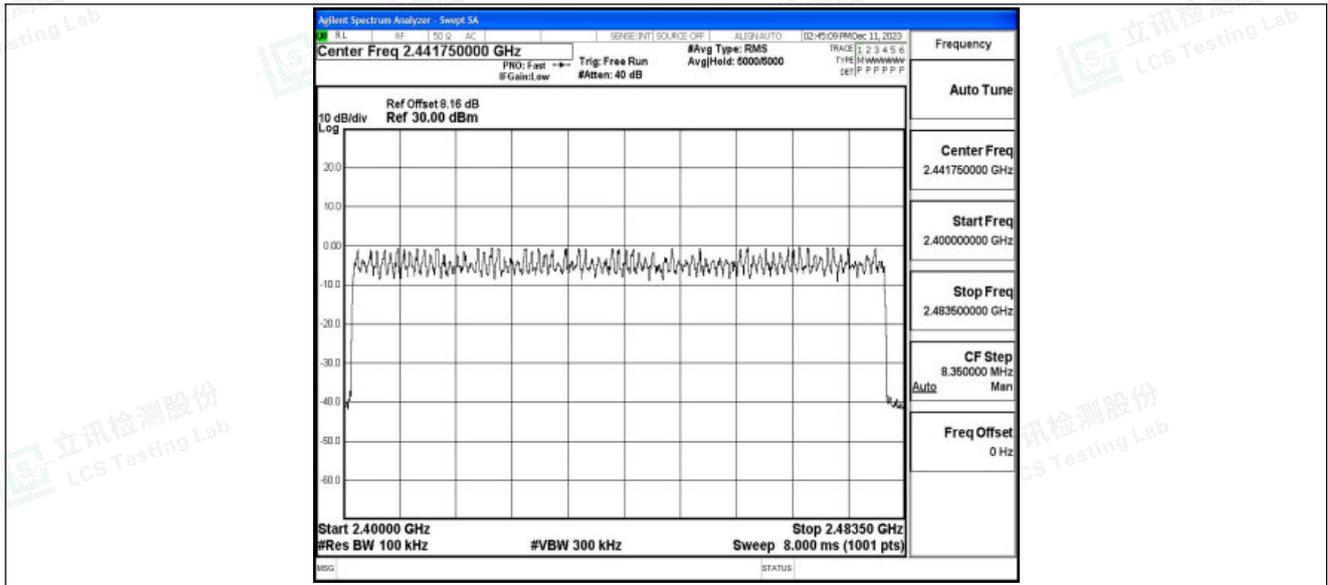


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.6 Band edge measurements

Test Result

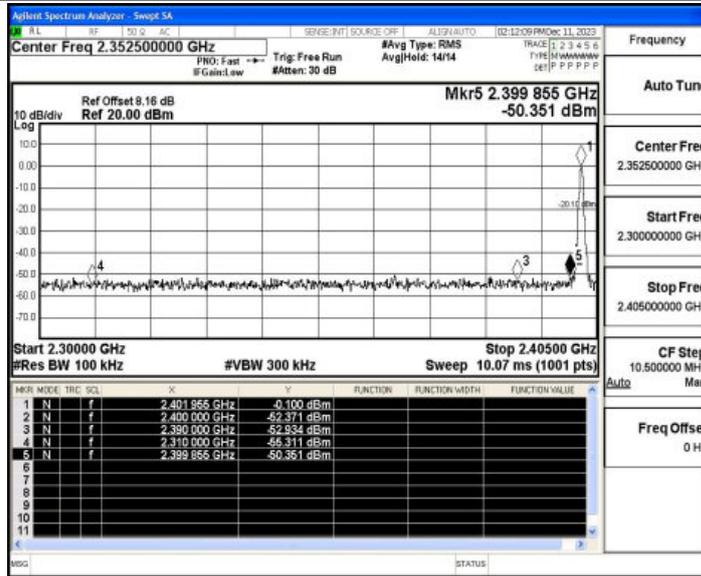
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.10	-50.35	≤-20.1	PASS
		High	2480	-0.08	-50.08	≤-20.08	PASS
		Low	Hop_2402	-0.70	-50.23	≤-20.7	PASS
		High	Hop_2480	0.27	-49.36	≤-19.73	PASS
2DH5	Ant1	Low	2402	-3.58	-51.1	≤-23.58	PASS
		High	2480	-1.64	-50.53	≤-21.64	PASS
		Low	Hop_2402	-5.29	-49.82	≤-25.29	PASS
		High	Hop_2480	-1.20	-48.43	≤-21.2	PASS
3DH5	Ant1	Low	2402	-5.06	-50.87	≤-25.06	PASS
		High	2480	-2.30	-50.89	≤-22.3	PASS
		Low	Hop_2402	-3.12	-49.67	≤-23.12	PASS
		High	Hop_2480	-1.22	-49.65	≤-21.22	PASS



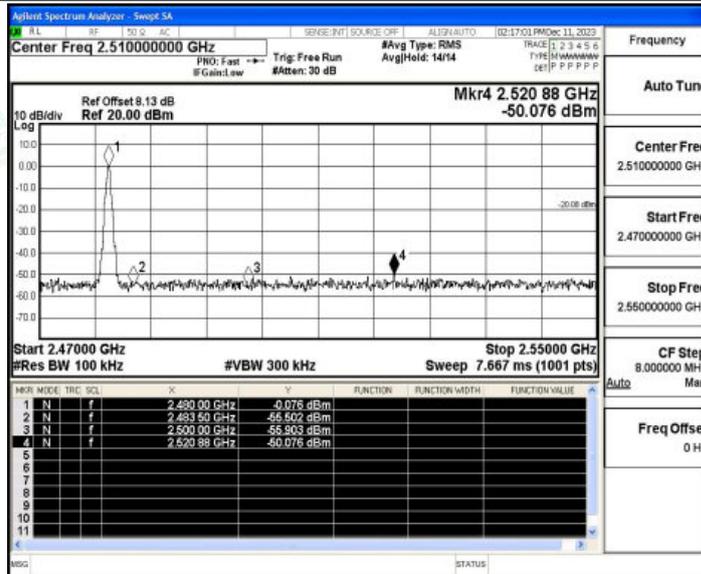


Test Graphs

DH5_Ant1_Low_2402

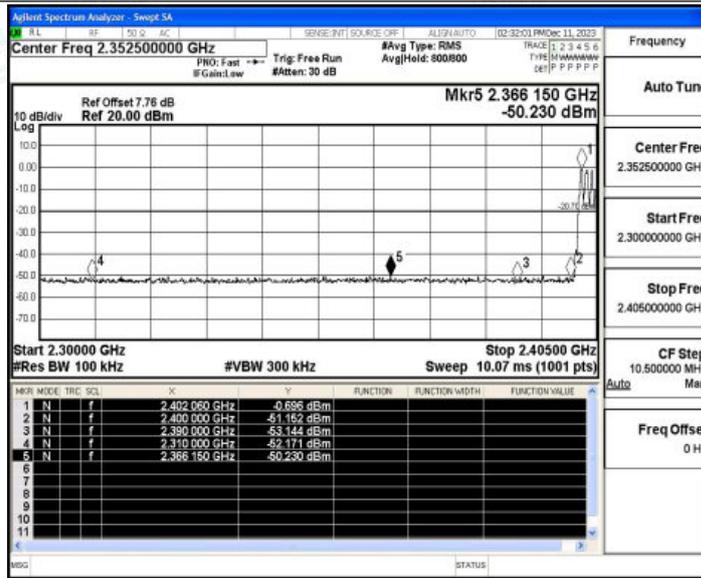


DH5_Ant1_High_2480

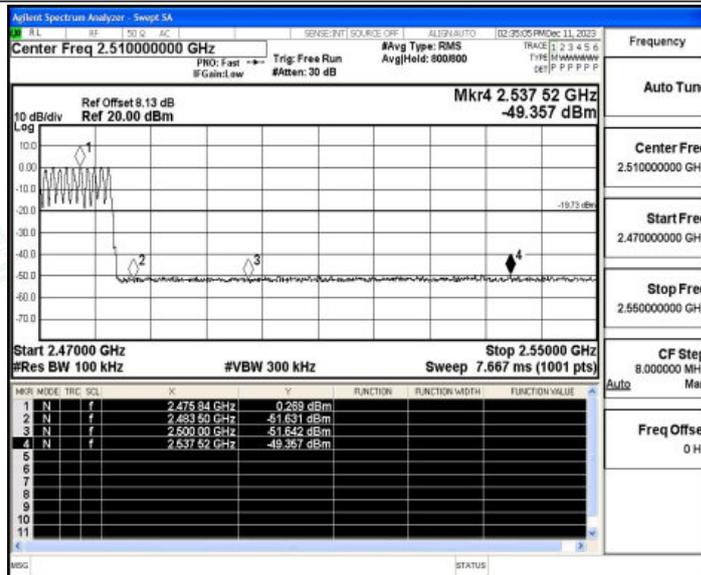


DH5_Ant1_Low_Hop_2402



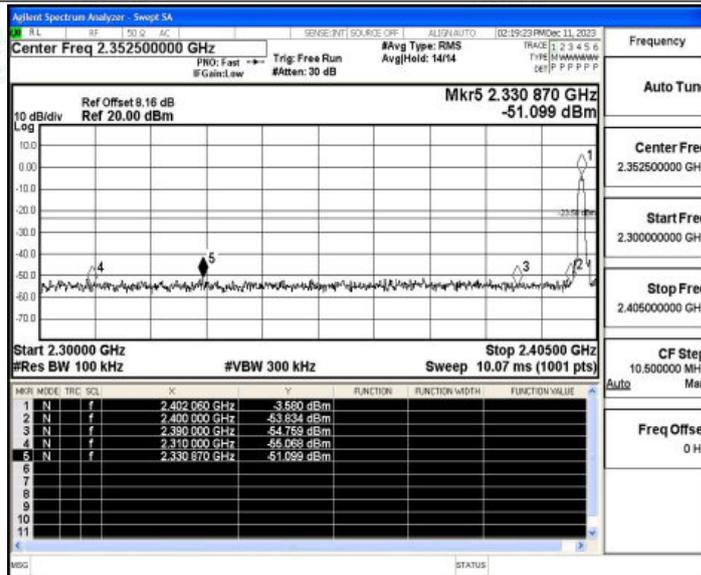


DH5_Ant1_High_Hop_2480

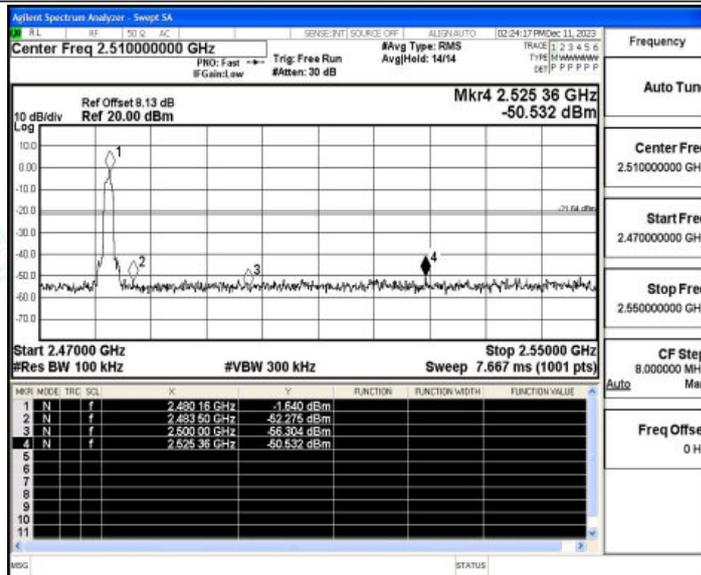


2DH5_Ant1_Low_2402



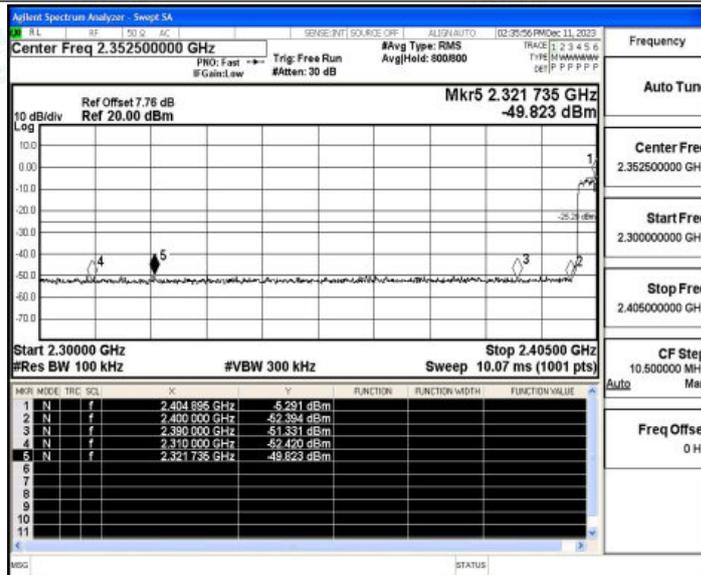


2DH5_Ant1_High_2480

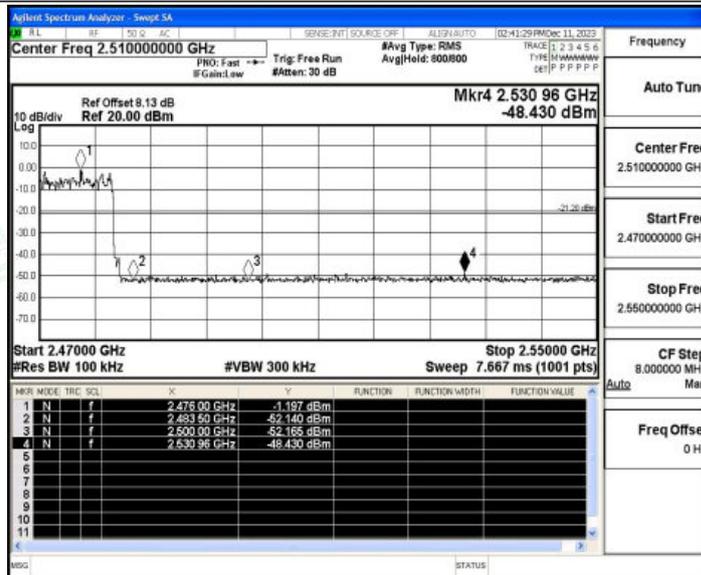


2DH5_Ant1_Low_Hop_2402



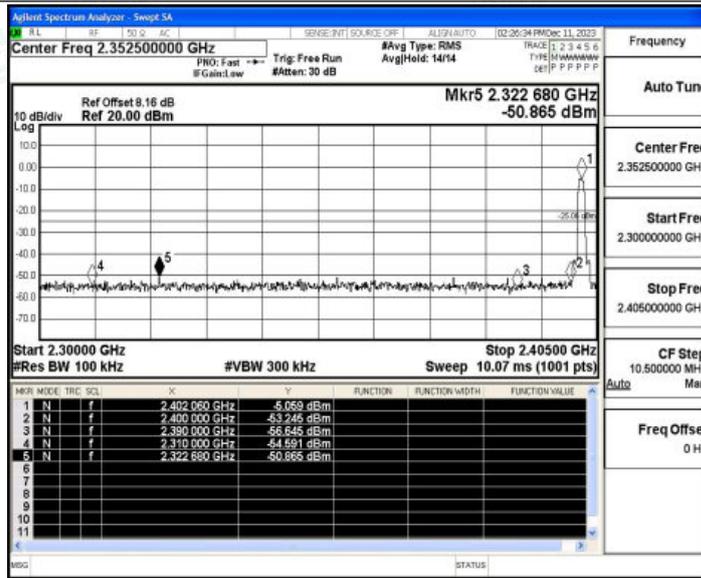


2DH5_Ant1_High_Hop_2480

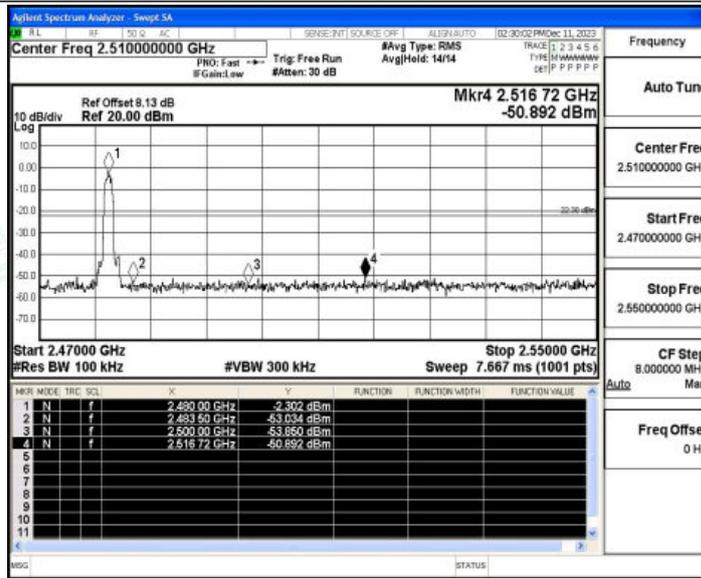


3DH5_Ant1_Low_2402



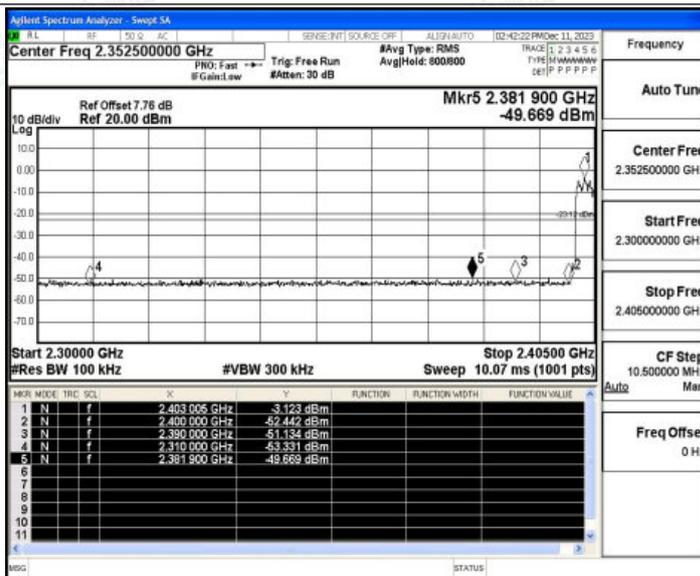


3DH5_Ant1_High_2480

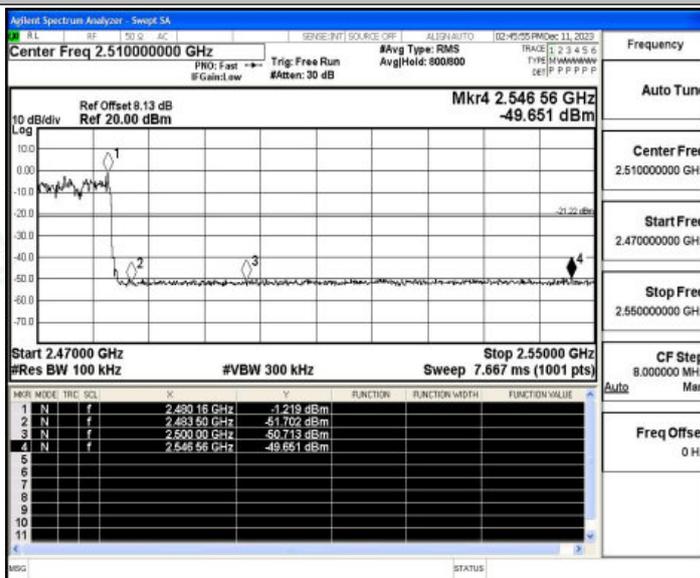


3DH5_Ant1_Low_Hop_2402





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	-0.36	-0.36	---	PASS
			30~1000	-0.36	-61.6	≤-20.36	PASS
			1000~26500	-0.36	-49.56	≤-20.36	PASS
		2441	Reference	0.31	0.31	---	PASS
			30~1000	0.31	-61.72	≤-19.69	PASS
			1000~26500	0.31	-49.04	≤-19.69	PASS
		2480	Reference	0.31	0.31	---	PASS
			30~1000	0.31	-62.07	≤-19.69	PASS
			1000~26500	0.31	-49.27	≤-19.69	PASS
2DH5	Ant1	2402	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-62.03	≤-20.83	PASS
			1000~26500	-0.83	-49.19	≤-20.83	PASS
		2441	Reference	-1.24	-1.24	---	PASS
			30~1000	-1.24	-61.59	≤-21.24	PASS
			1000~26500	-1.24	-49.08	≤-21.24	PASS
		2480	Reference	-0.76	-0.76	---	PASS
			30~1000	-0.76	-60.99	≤-20.76	PASS
			1000~26500	-0.76	-48.73	≤-20.76	PASS
3DH5	Ant1	2402	Reference	-1.13	-1.13	---	PASS
			30~1000	-1.13	-61.46	≤-21.13	PASS
			1000~26500	-1.13	-48.82	≤-21.13	PASS
		2441	Reference	-1.44	-1.44	---	PASS
			30~1000	-1.44	-61.58	≤-21.44	PASS
			1000~26500	-1.44	-37.19	≤-21.44	PASS
		2480	Reference	-0.60	-0.60	---	PASS
			30~1000	-0.60	-61.16	≤-20.6	PASS
			1000~26500	-0.60	-49.19	≤-20.6	PASS



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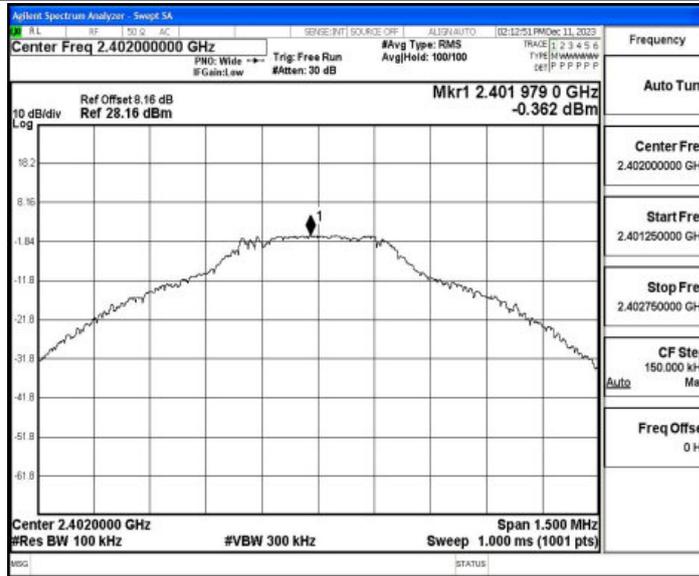
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Scan code to check authenticity

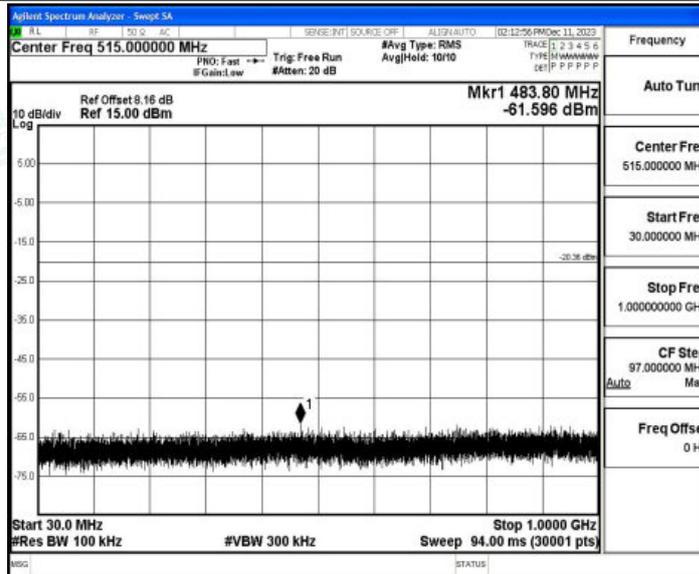


Test Graphs

DH5_Ant1_2402_0~Reference

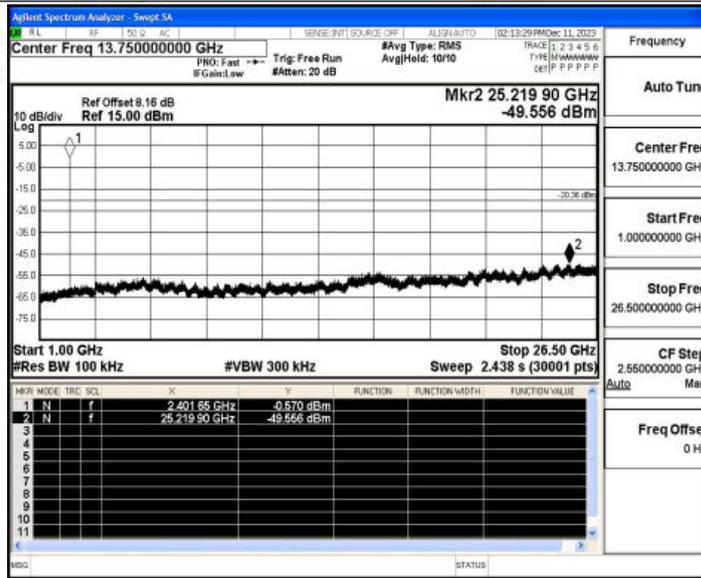


DH5_Ant1_2402_30~1000

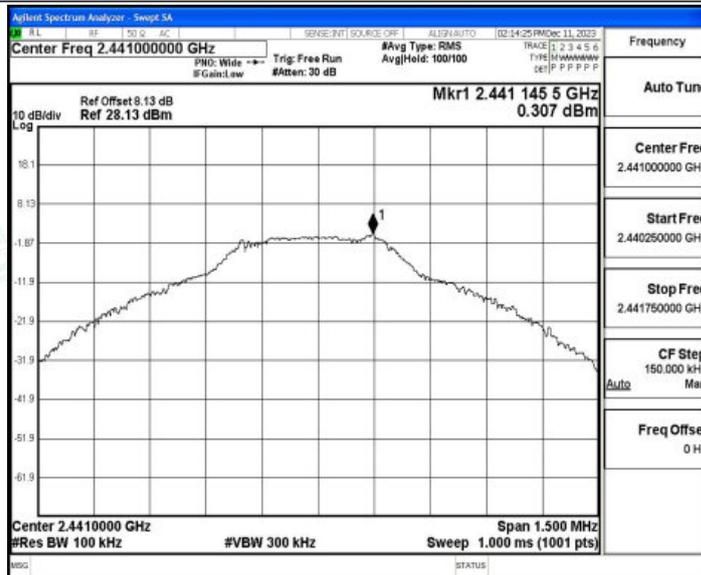


DH5_Ant1_2402_1000~26500



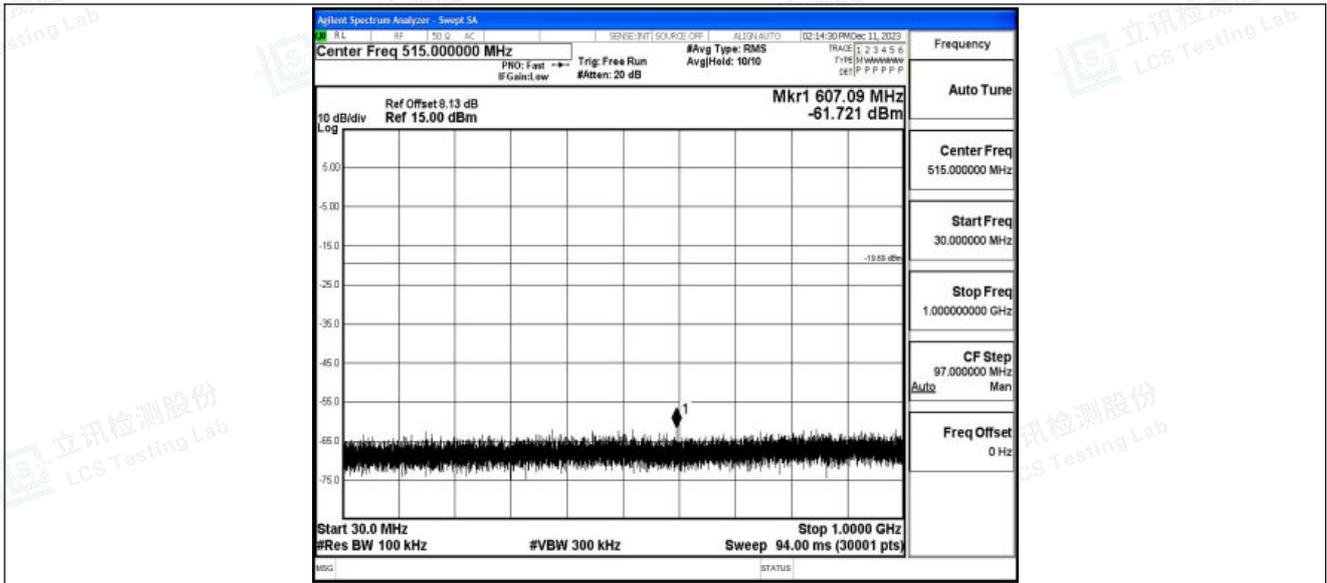


DH5_Ant1_2441_0~Reference

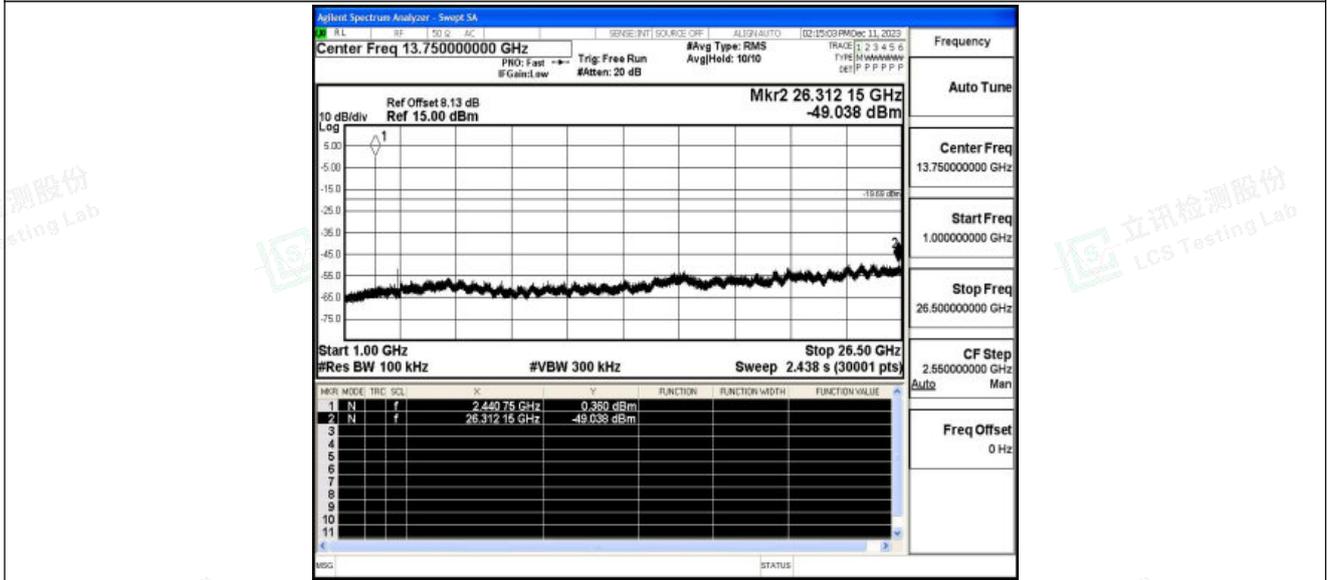


DH5_Ant1_2441_30~1000



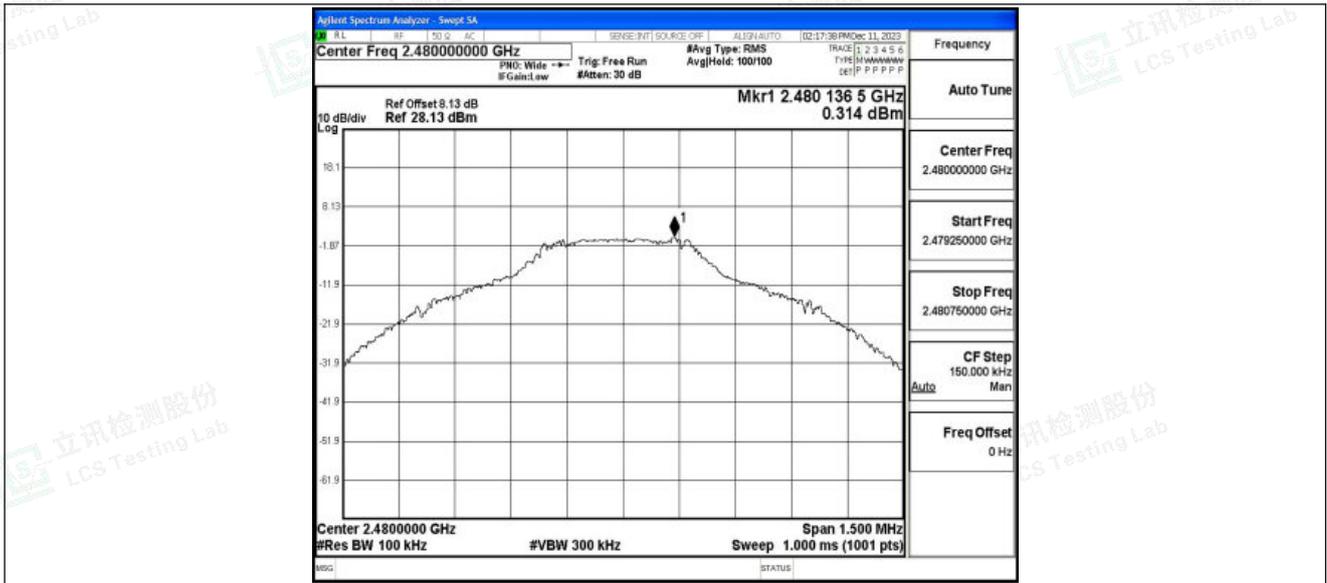


DH5_Ant1_2441_1000~26500

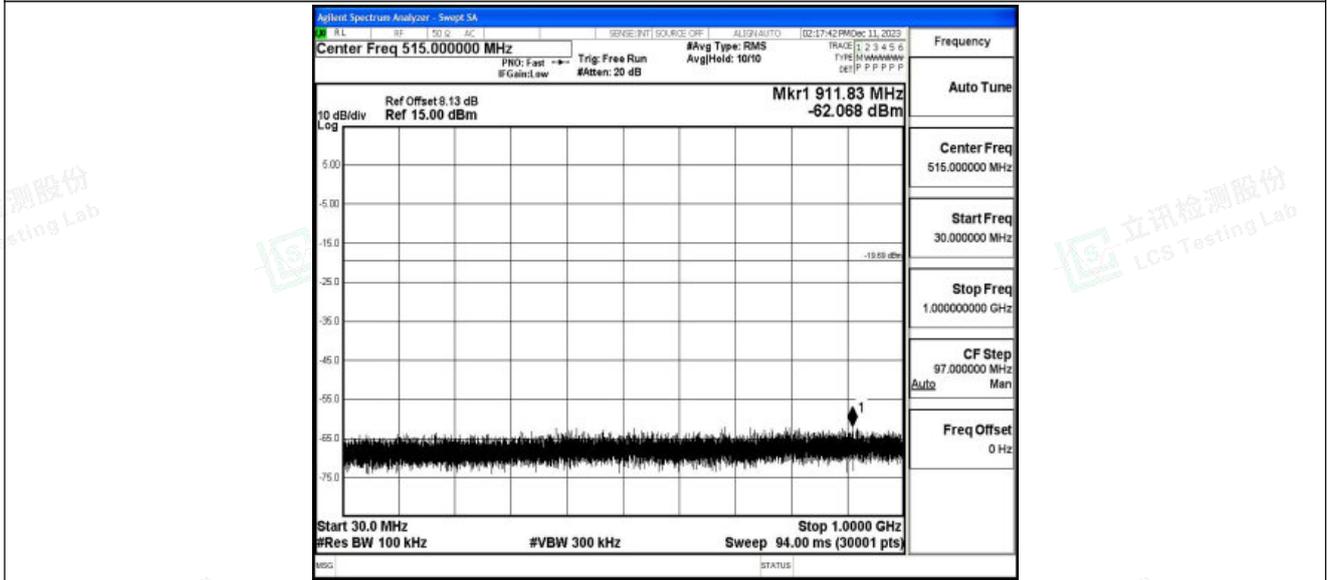


DH5_Ant1_2480_0~Reference



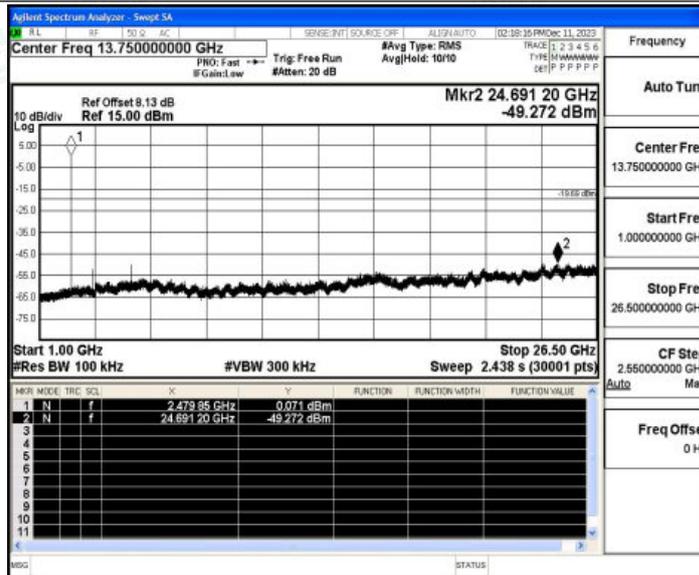


DH5_Ant1_2480_30~1000

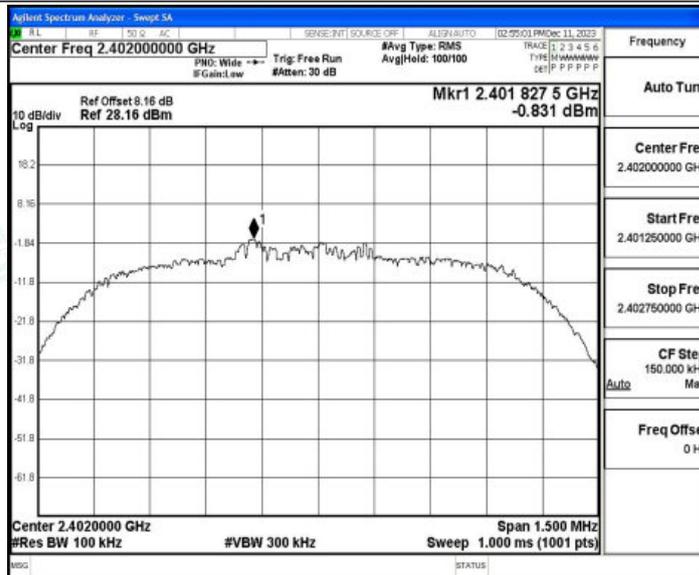


DH5_Ant1_2480_1000~26500



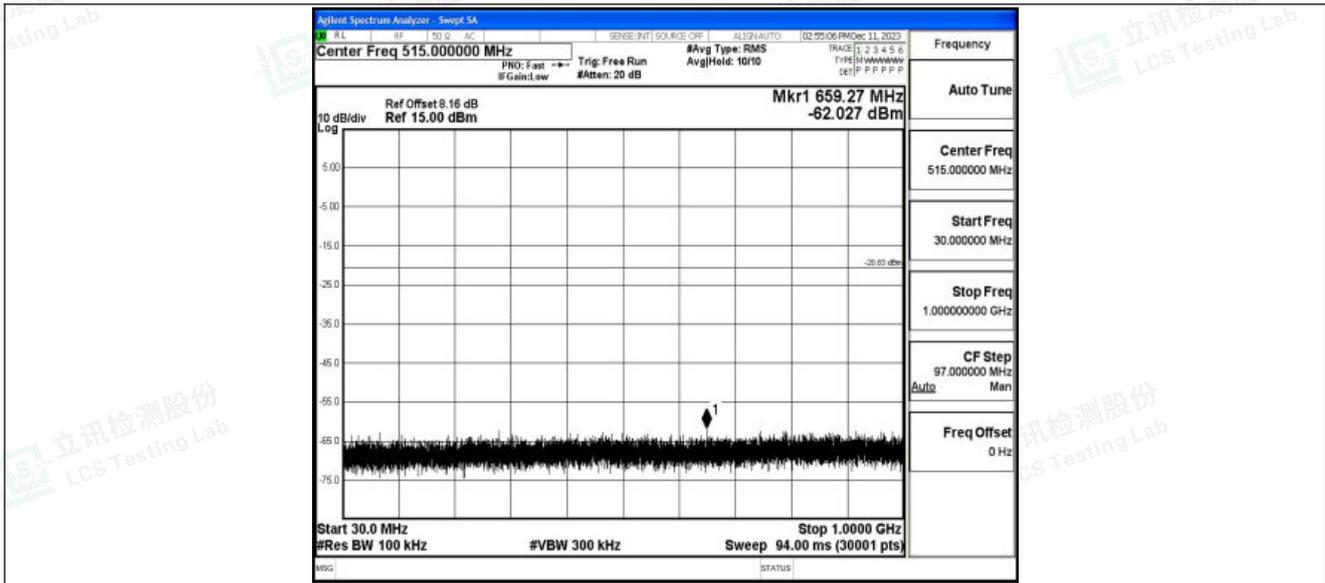


2DH5_Ant1_2402_0~Reference

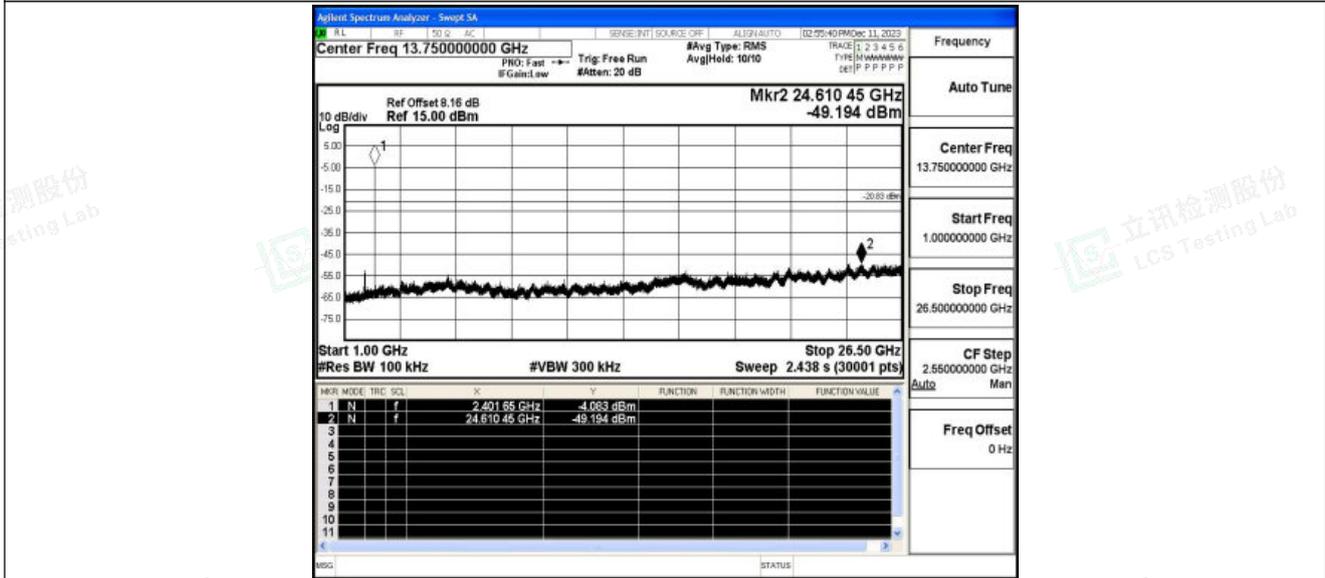


2DH5_Ant1_2402_30~1000



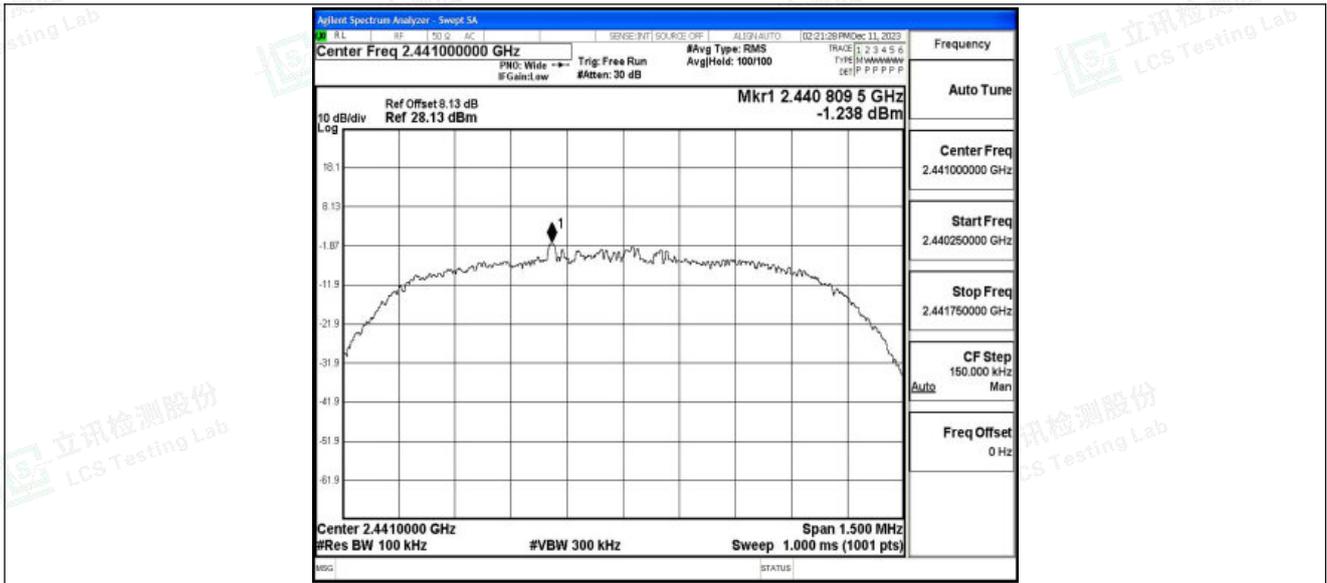


2DH5_Ant1_2402_1000~26500

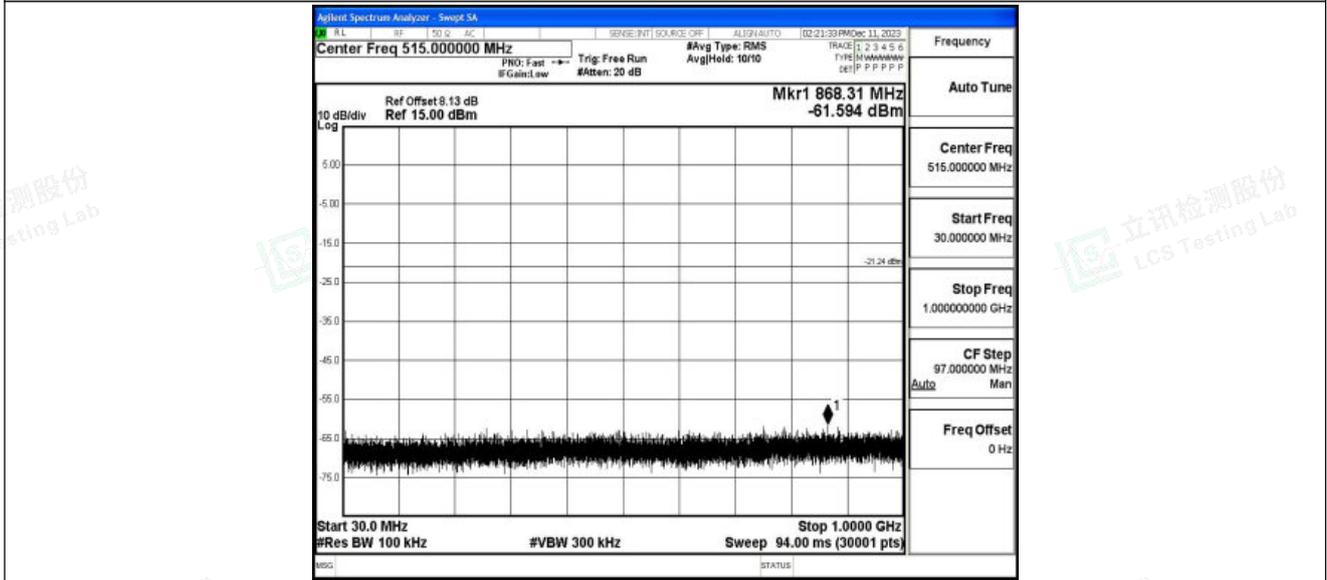


2DH5_Ant1_2441_0~Reference



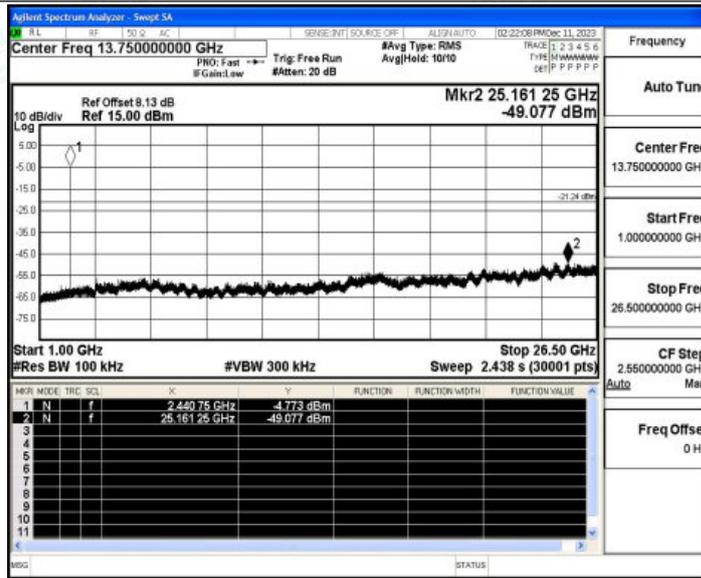


2DH5_Ant1_2441_30~1000

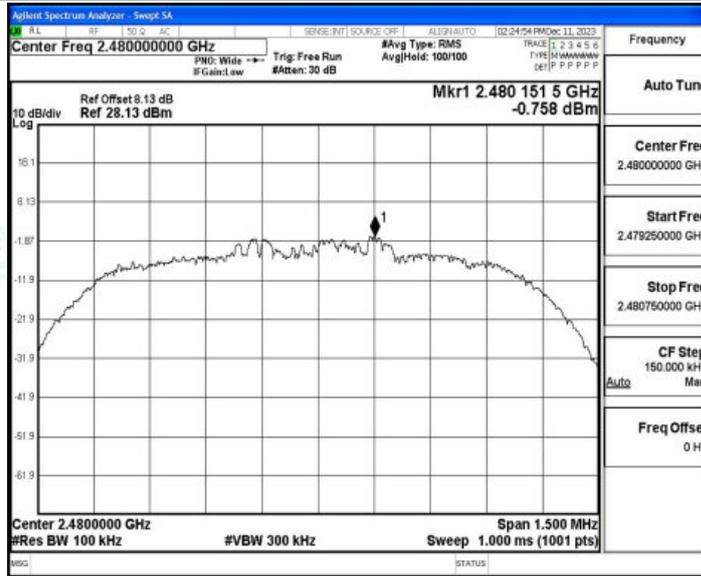


2DH5_Ant1_2441_1000~26500



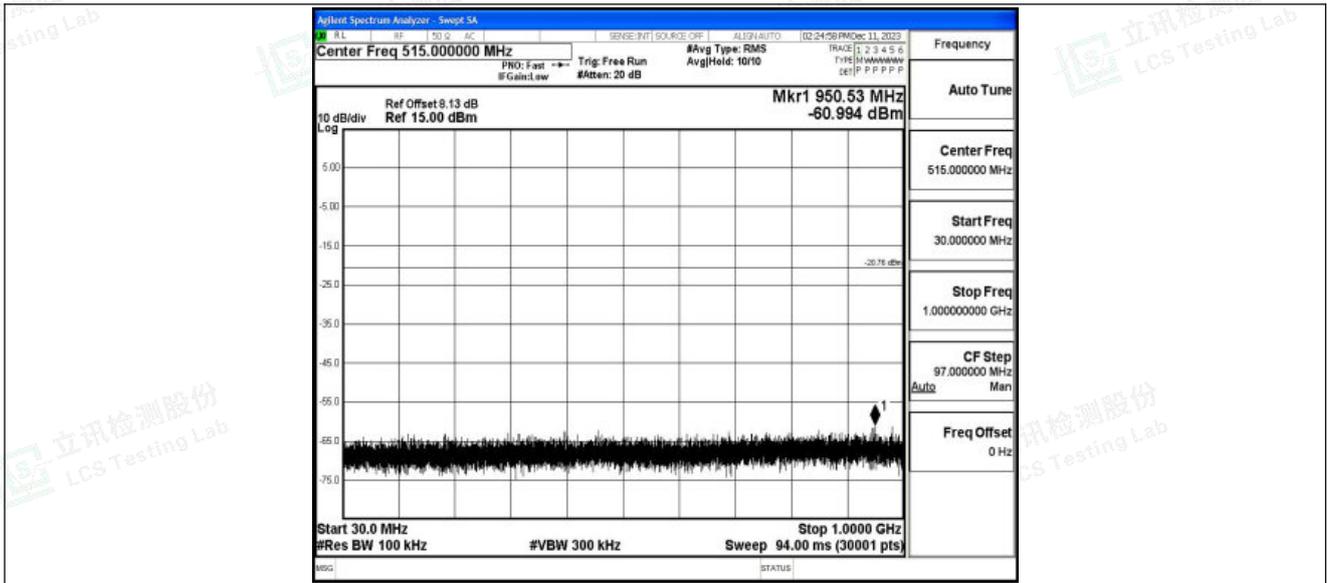


2DH5_Ant1_2480_0~Reference

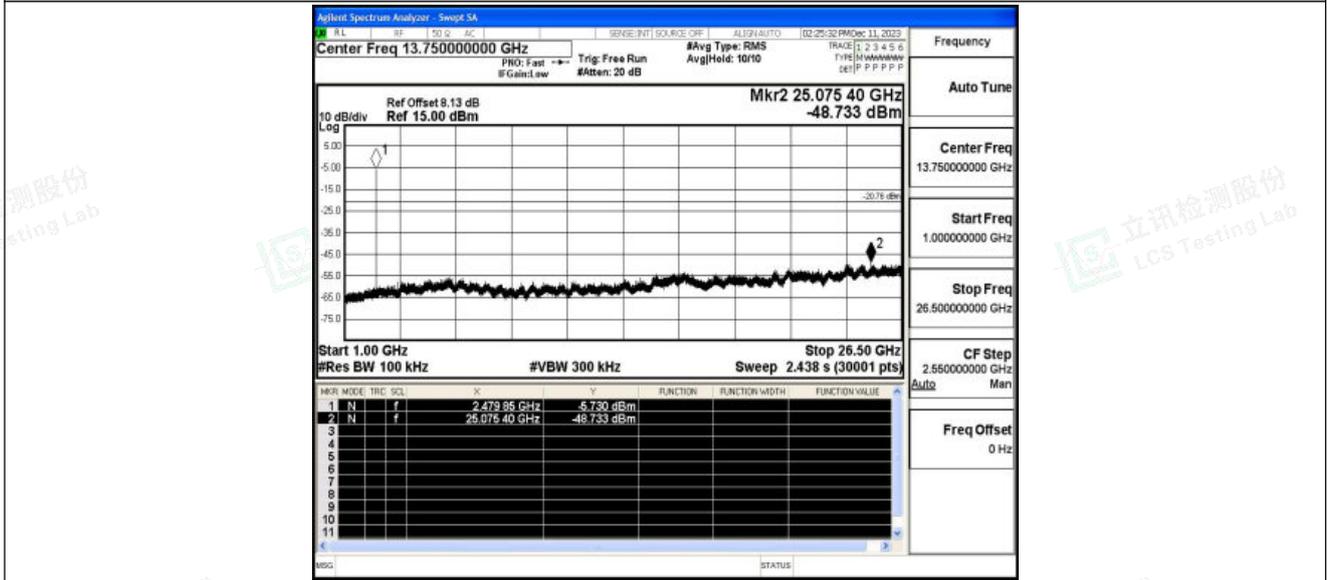


2DH5_Ant1_2480_30~1000



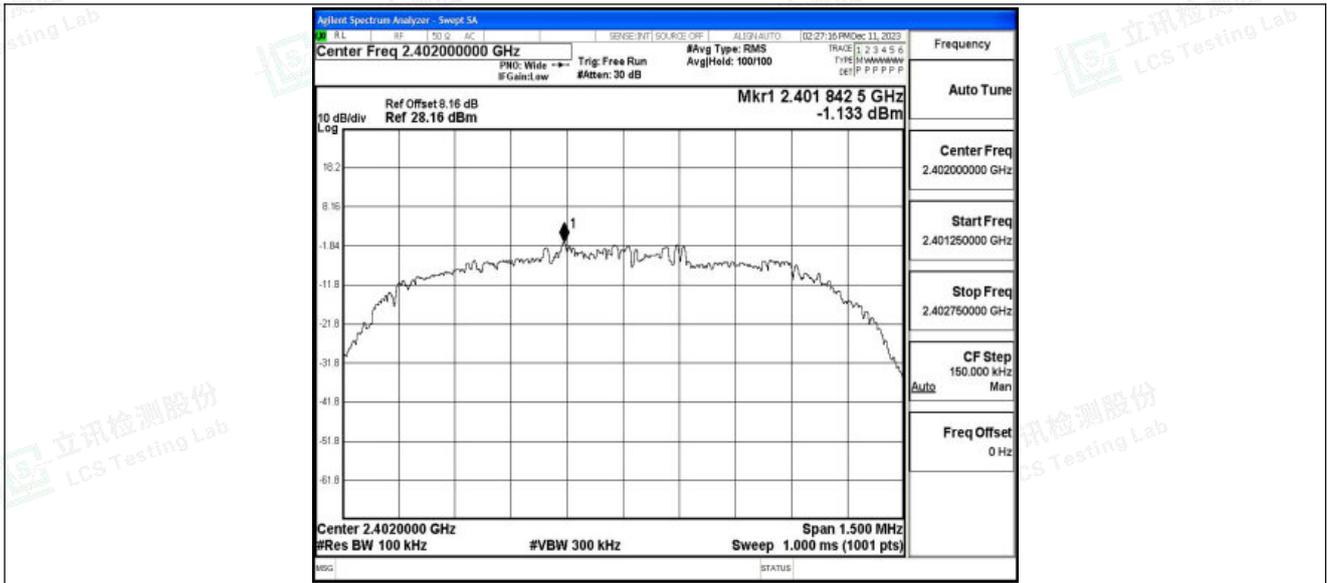


2DH5_Ant1_2480_1000~26500

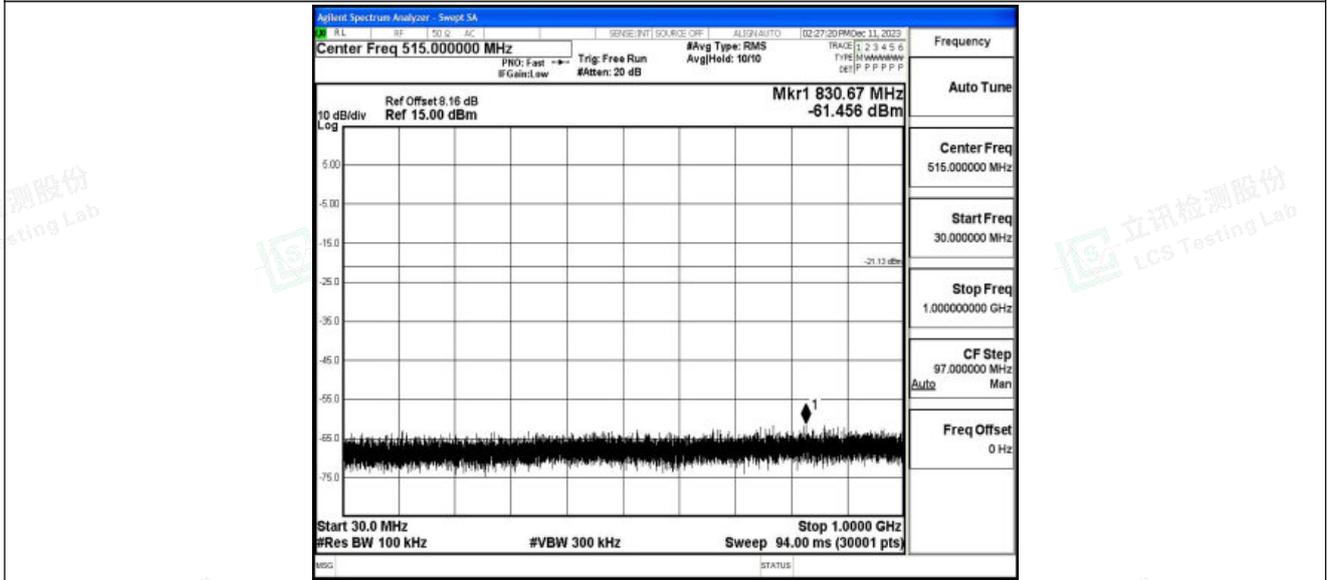


3DH5_Ant1_2402_0~Reference



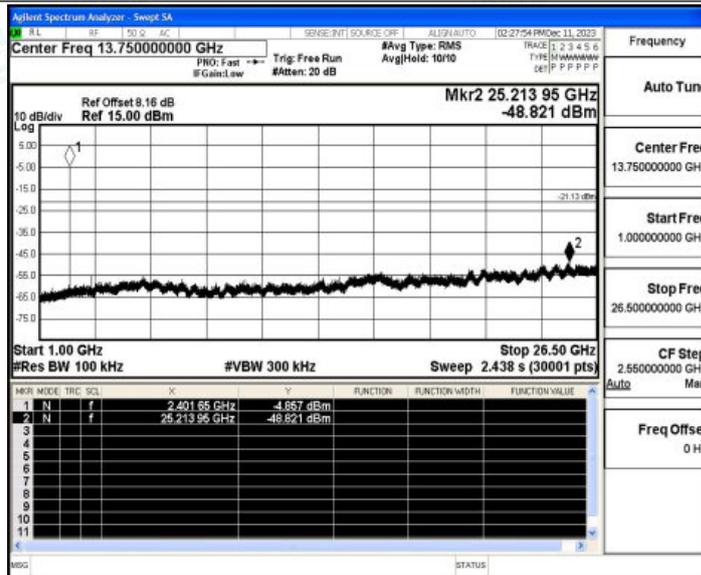


3DH5_Ant1_2402_30~1000

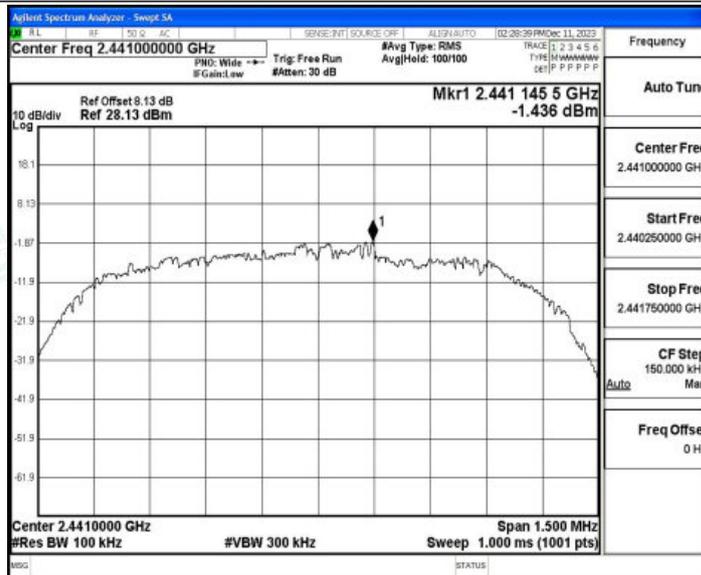


3DH5_Ant1_2402_1000~26500



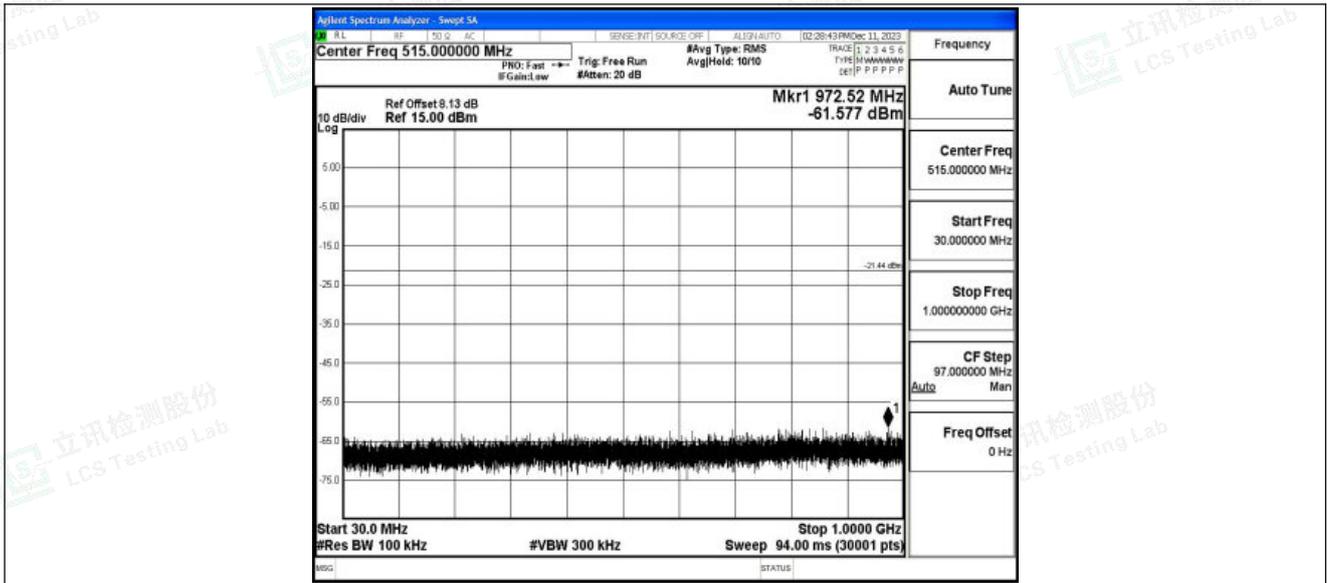


3DH5_Ant1_2441_0~Reference

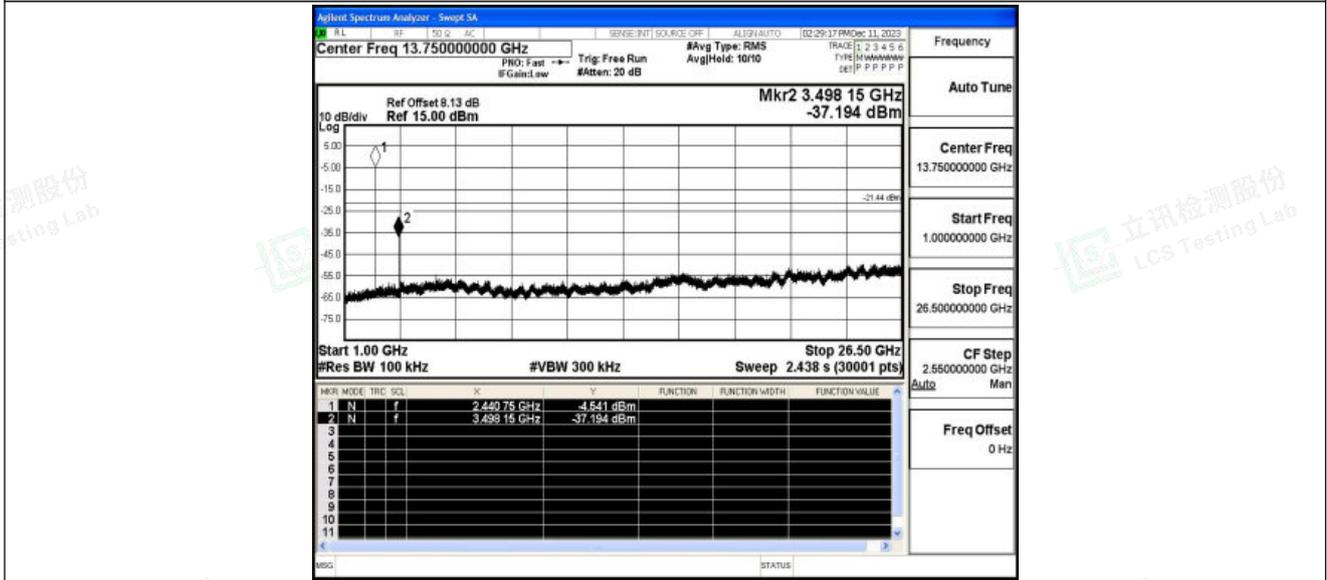


3DH5_Ant1_2441_30~1000



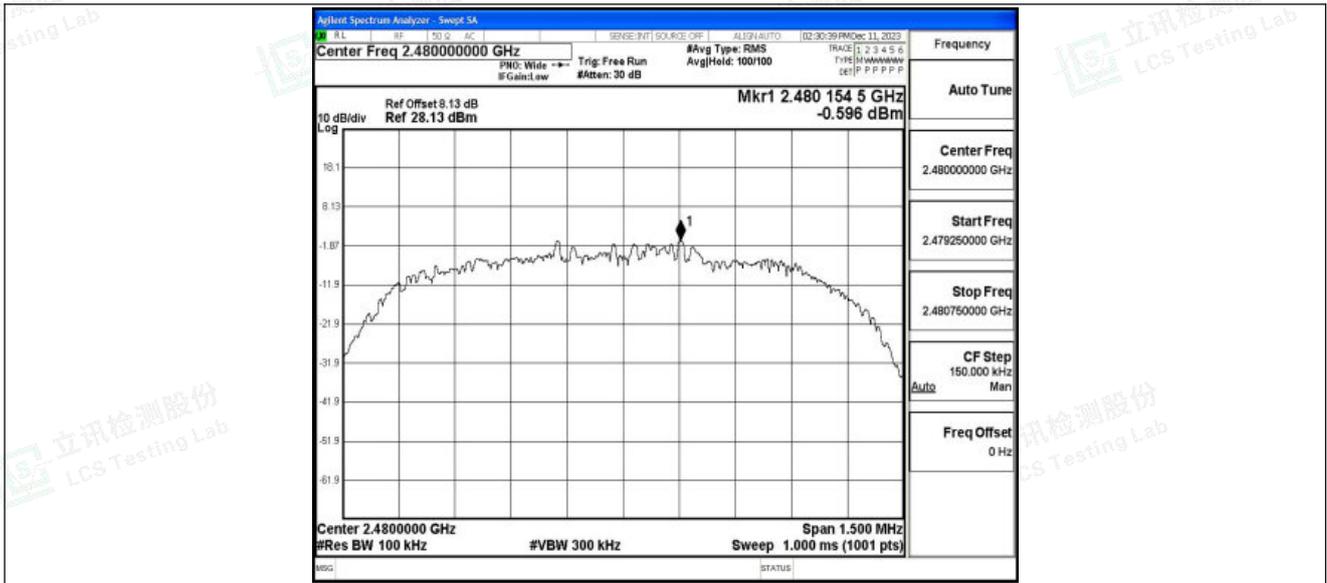


3DH5_Ant1_2441_1000~26500

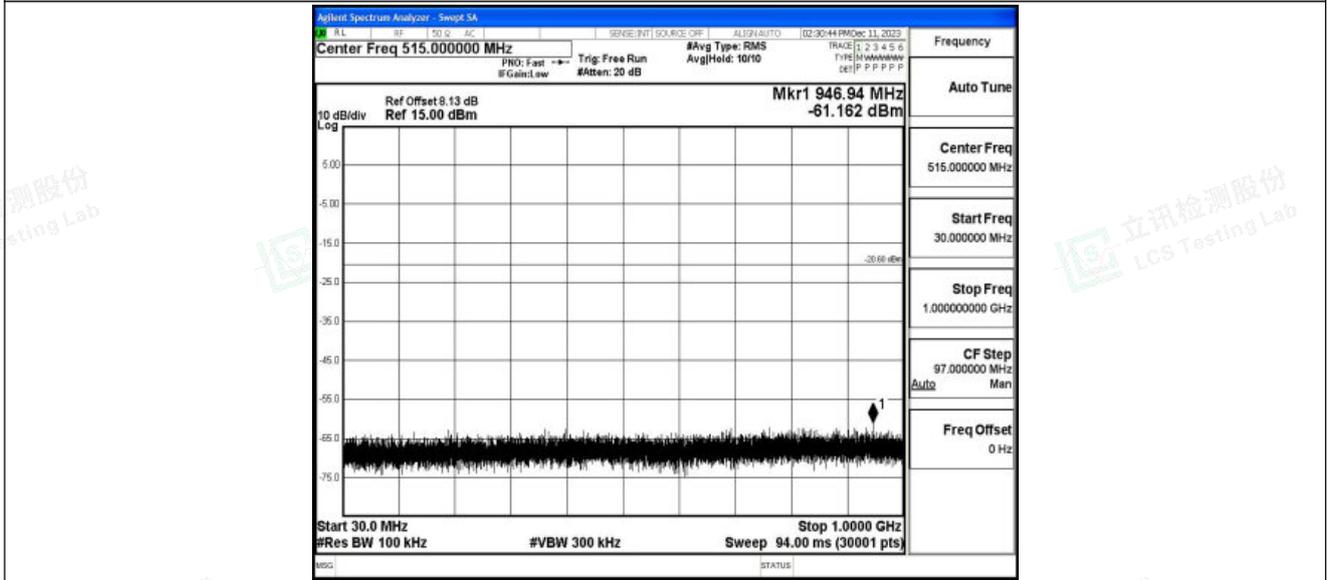


3DH5_Ant1_2480_0~Reference



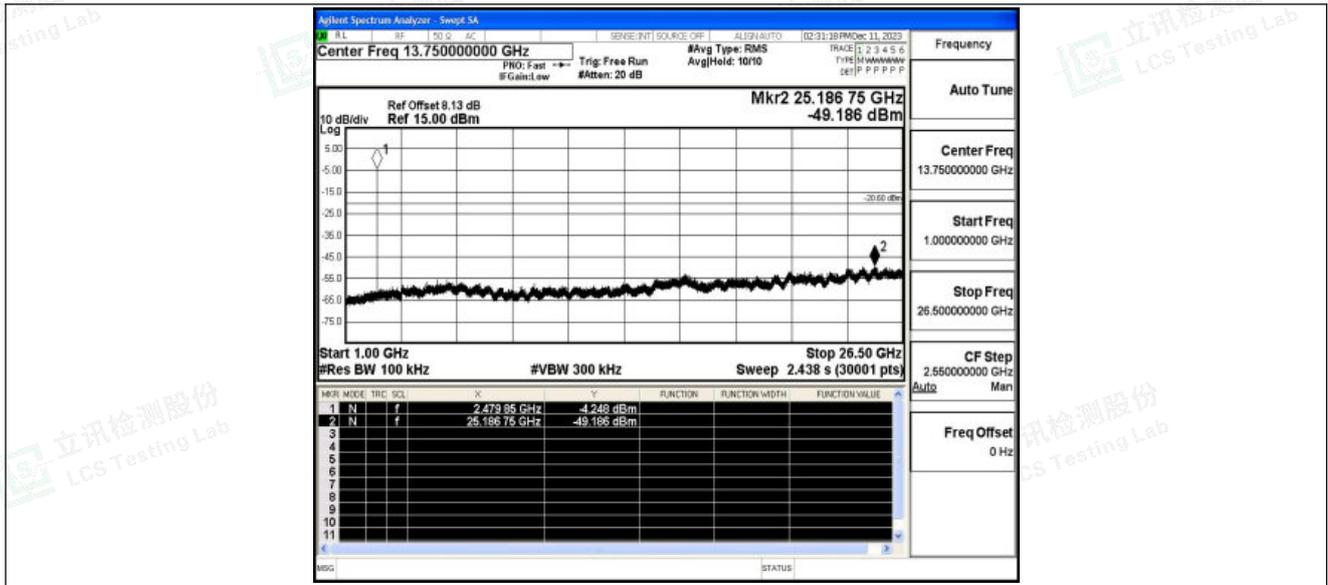


3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500







A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBUV/m]	Limit [dBU V/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.95	≤-41.20	46.25	≤54	PASS
				AV	2385.995	-48.46	≤-41.20	46.74	≤54	PASS
				AV	2390.000	-48.59	≤-41.20	46.61	≤54	PASS
				Peak	2310.000	-41.45	≤-21.20	53.75	≤74	PASS
				Peak	2310.185	-39.13	≤-21.20	56.07	≤74	PASS
				Peak	2390.000	-44	≤-21.20	51.20	≤74	PASS
		High	2480	AV	2483.500	-48.23	≤-41.20	46.97	≤54	PASS
				AV	2483.520	-48.23	≤-41.20	46.97	≤54	PASS
				AV	2500.000	-48.49	≤-41.20	46.71	≤54	PASS
				Peak	2483.500	-44.72	≤-21.20	50.48	≤74	PASS
				Peak	2491.840	-38.57	≤-21.20	56.63	≤74	PASS
				Peak	2500.000	-40.87	≤-21.20	54.33	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.18	≤-21.20	54.02	≤74	PASS
				Peak	2365.415	-38.7	≤-21.20	56.50	≤74	PASS
				Peak	2390.000	-40.48	≤-21.20	54.72	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-41	≤-21.20	54.20	≤74	PASS
				Peak	2490.480	-38.31	≤-21.20	56.89	≤74	PASS
				Peak	2500.000	-40.52	≤-21.20	54.68	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.93	≤-41.20	46.27	≤54	PASS
				AV	2386.835	-48.4	≤-41.20	46.80	≤54	PASS
				AV	2390.000	-48.63	≤-41.20	46.57	≤54	PASS
				Peak	2310.000	-44.64	≤-21.20	50.56	≤74	PASS
				Peak	2335.595	-39.19	≤-21.20	56.01	≤74	PASS
				Peak	2390.000	-43.93	≤-21.20	51.27	≤74	PASS
		High	2480	AV	2483.500	-48.32	≤-41.20	46.88	≤54	PASS
				AV	2483.520	-48.32	≤-41.20	46.88	≤54	PASS
				AV	2500.000	-48.58	≤-41.20	46.62	≤54	PASS
				Peak	2483.500	-42.47	≤-21.20	52.73	≤74	PASS
				Peak	2495.440	-39.69	≤-21.20	55.51	≤74	PASS
				Peak	2500.000	-43.4	≤-21.20	51.80	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.68	≤-21.20	54.52	≤74	PASS
				Peak	2319.425	-38.36	≤-21.20	56.84	≤74	PASS
				Peak	2390.000	-40.63	≤-21.20	54.57	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.35	≤-21.20	55.85	≤74	PASS
				Peak	2490.480	-38.65	≤-21.20	56.55	≤74	PASS





3DH5	Ant1	Low	2402	Peak	2500.000	-40.64	≤-21.20	54.56	≤74	PASS
				AV	2310.000	-48.99	≤-41.20	46.21	≤54	PASS
				AV	2386.520	-48.56	≤-41.20	46.64	≤54	PASS
				AV	2390.000	-48.71	≤-41.20	46.49	≤54	PASS
				Peak	2310.000	-45.22	≤-21.20	49.98	≤74	PASS
				Peak	2339.375	-39.72	≤-21.20	55.48	≤74	PASS
		High	2480	AV	2483.500	-48.28	≤-41.20	46.92	≤54	PASS
				AV	2483.520	-48.28	≤-41.20	46.92	≤54	PASS
				AV	2500.000	-48.63	≤-41.20	46.57	≤54	PASS
				Peak	2483.500	-42.87	≤-21.20	52.33	≤74	PASS
				Peak	2489.600	-40.47	≤-21.20	54.73	≤74	PASS
				Peak	2500.000	-43.94	≤-21.20	51.26	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.57	≤-21.20	53.63	≤74	PASS
				Peak	2354.180	-37.78	≤-21.20	57.42	≤74	PASS
				Peak	2390.000	-40.87	≤-21.20	54.33	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.77	≤-21.20	54.43	≤74	PASS
				Peak	2485.680	-37.81	≤-21.20	57.39	≤74	PASS
				Peak	2500.000	-41.02	≤-21.20	54.18	≤74	PASS

Note:

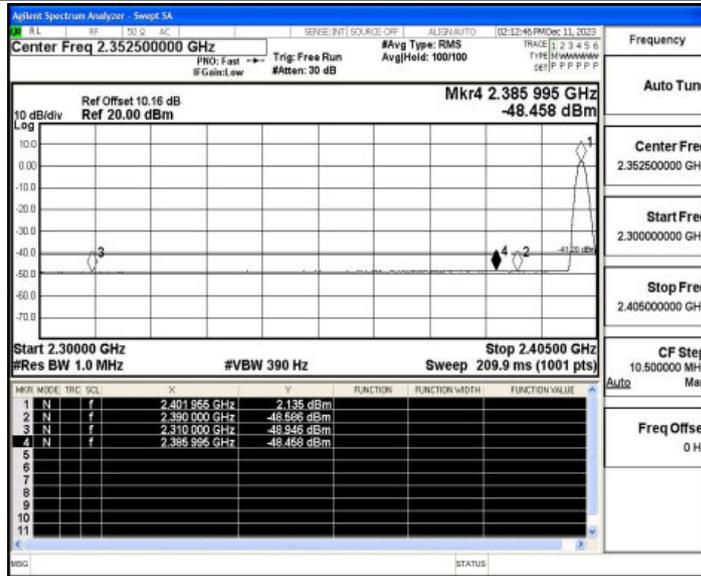
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



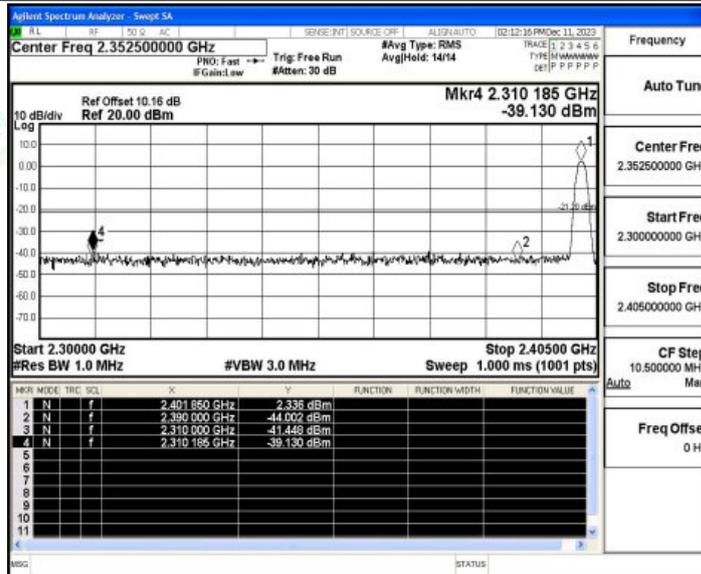


Test Graphs

DH5_Ant1_Low_2402_AV

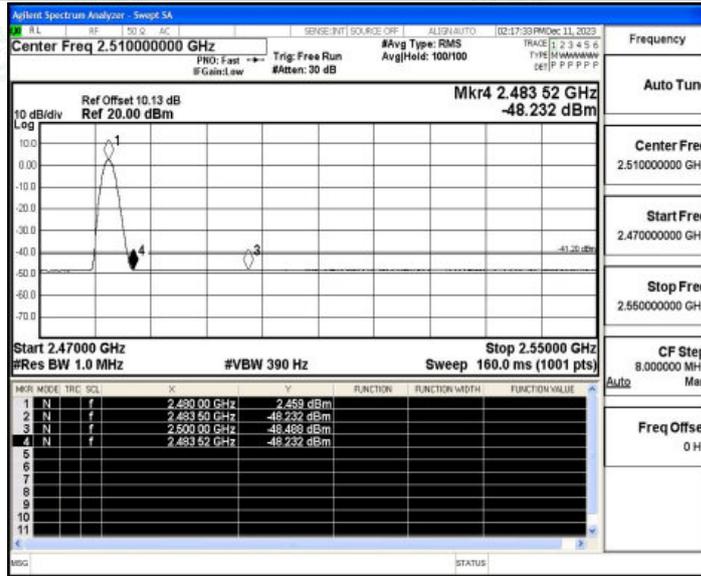


DH5_Ant1_Low_2402_Peak

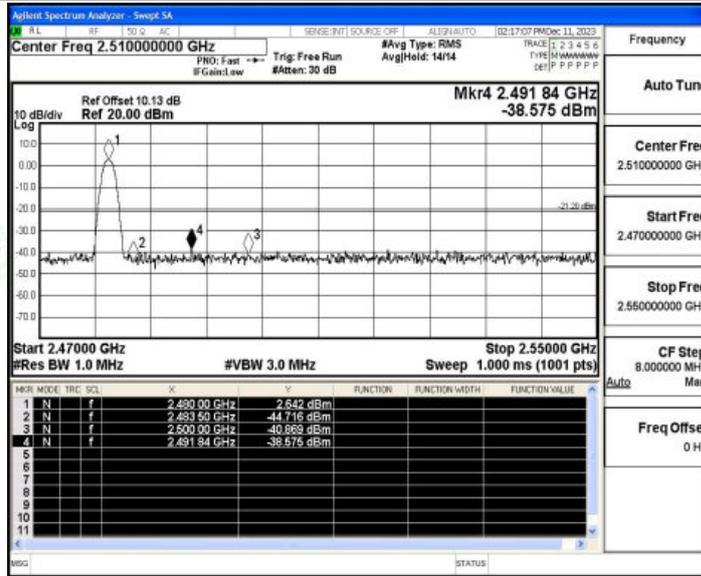


DH5_Ant1_High_2480_AV



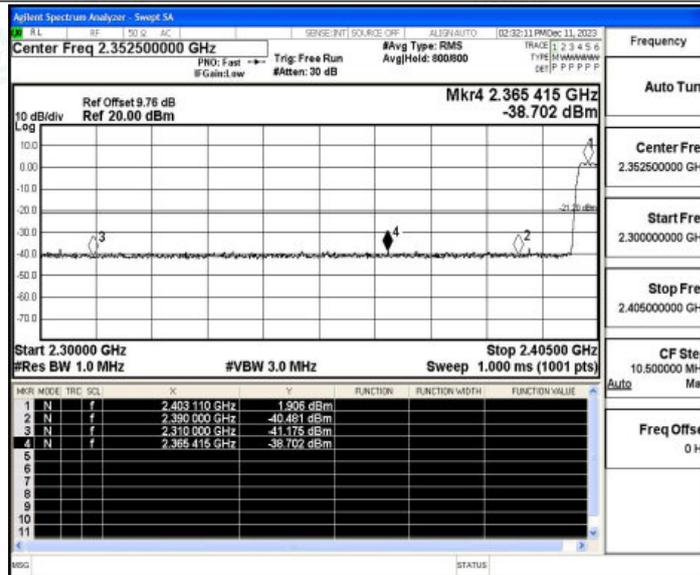


DH5_Ant1_High_2480_Peak

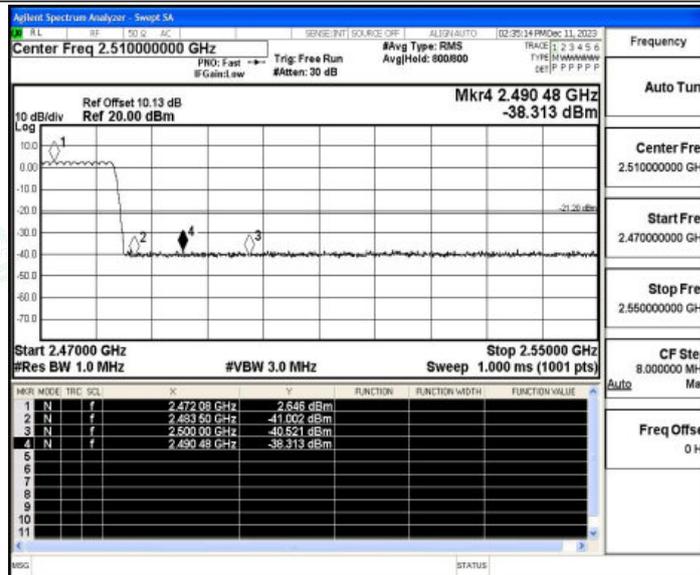


DH5_Ant1_Low_Hop_2402_Peak



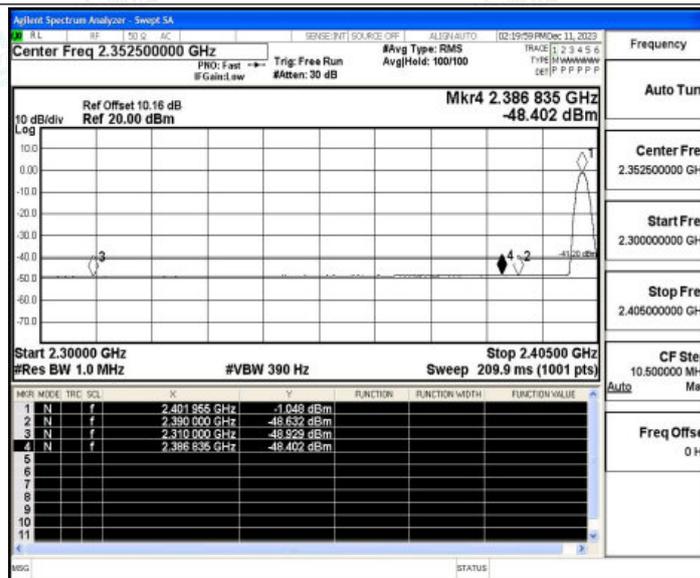


DH5_Ant1_High_Hop_2480_Peak

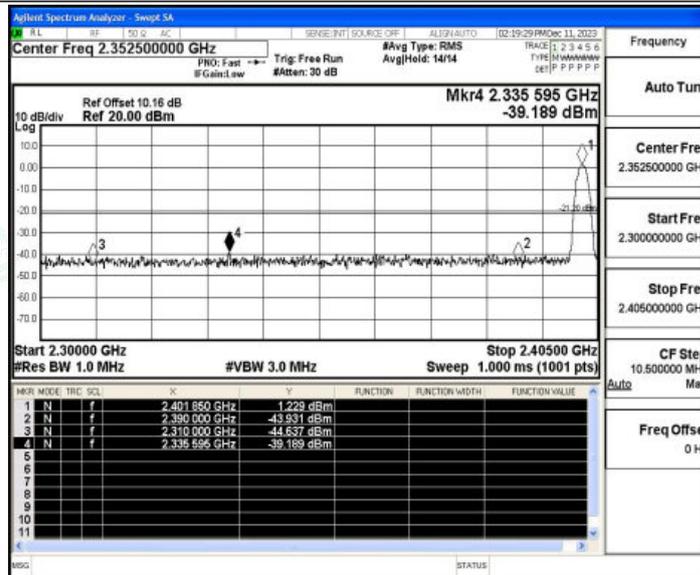


2DH5_Ant1_Low_2402_AV



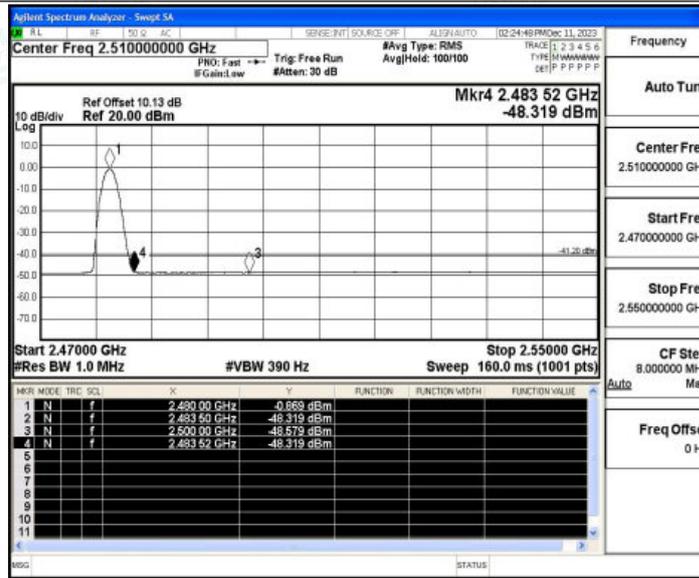


2DH5_Ant1_Low_2402_Peak

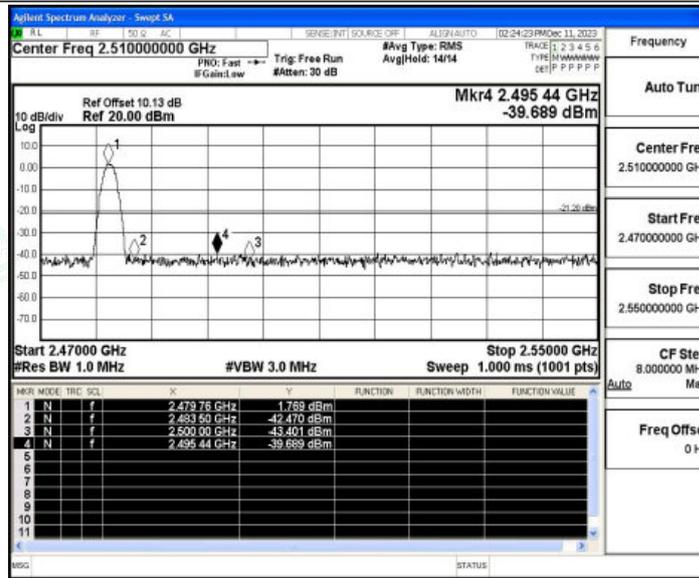


2DH5_Ant1_High_2480_AV



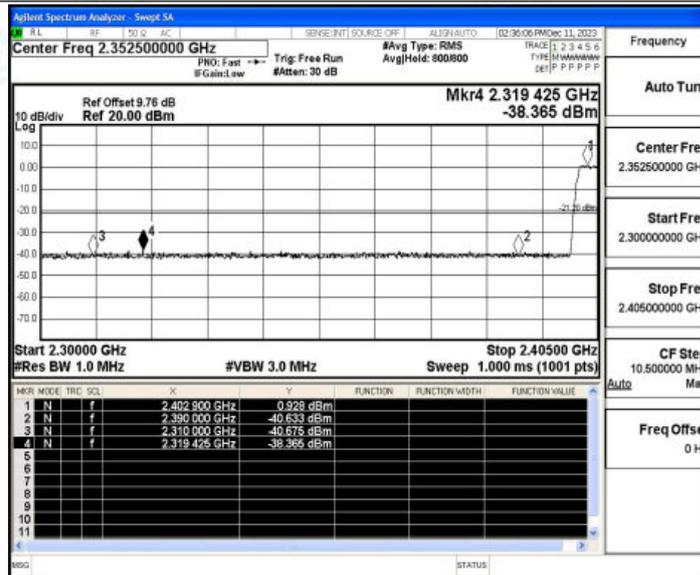


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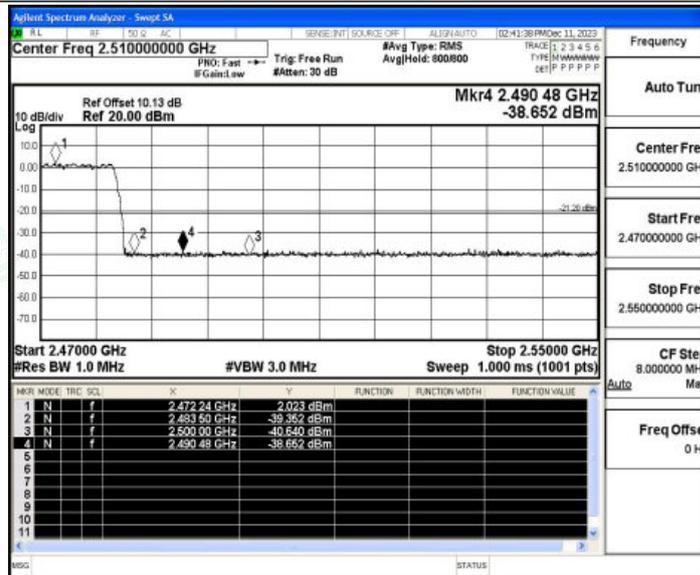


2DH5_Ant1_Low_Hop_2402_Peak



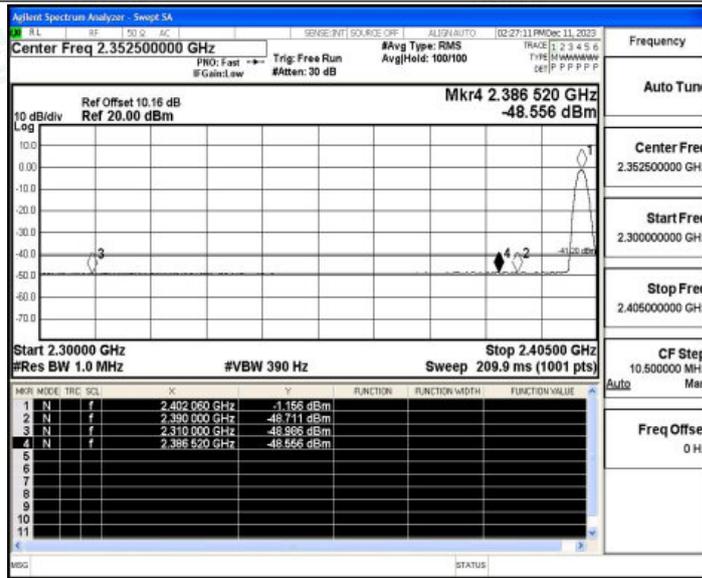


2DH5_Ant1_High_Hop_2480_Peak

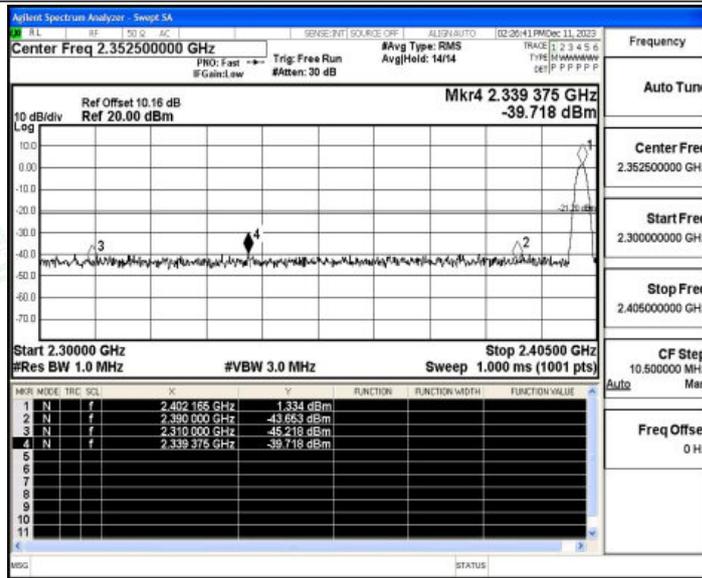


3DH5_Ant1_Low_2402_AV



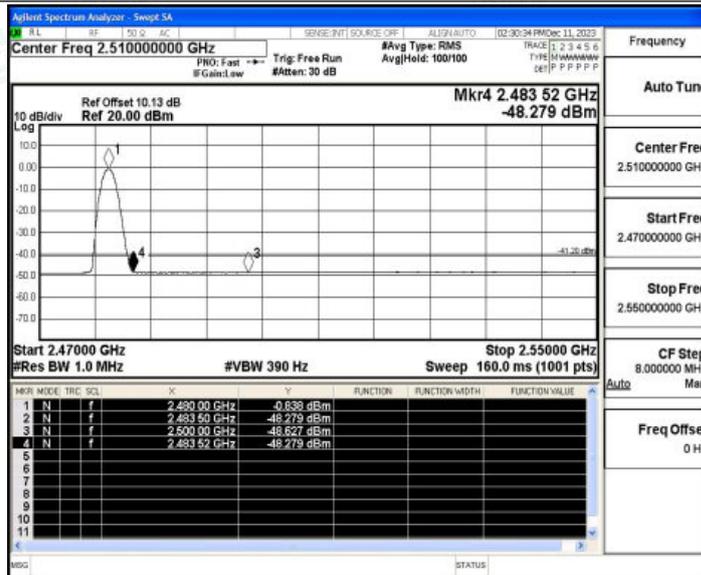


3DH5_Ant1_Low_2402_Peak

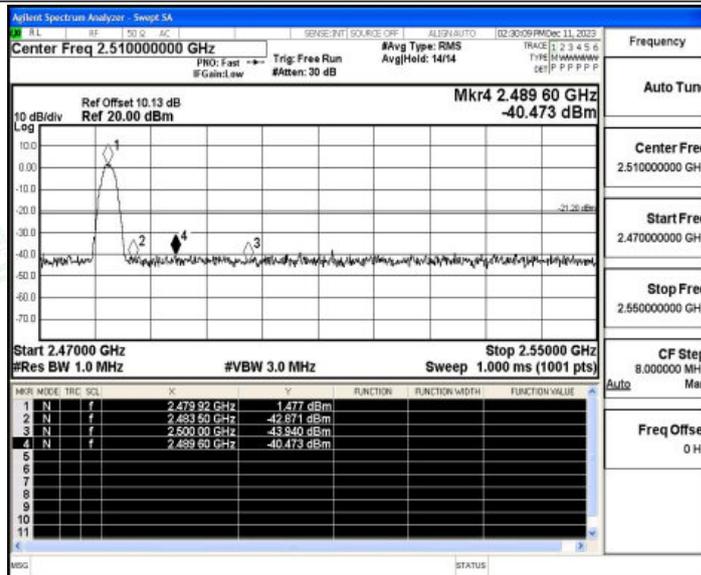


3DH5_Ant1_High_2480_AV



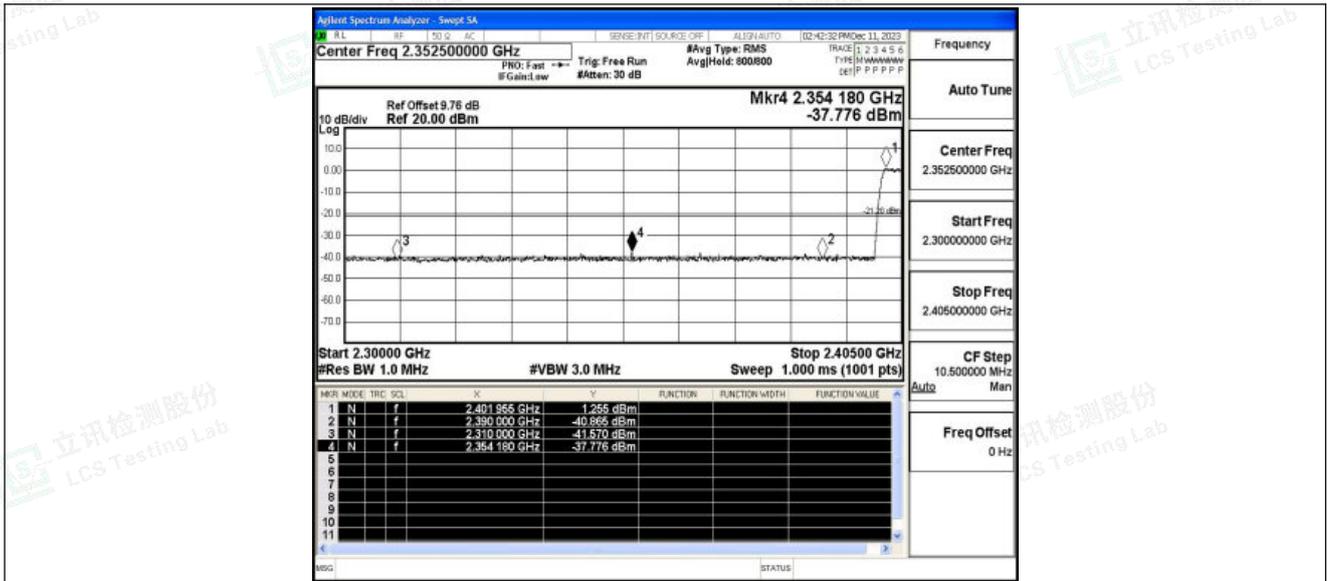


3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak





3DH5_Ant1_High_Hop_2480_Peak

