



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Mobile Computer

Test Model: C7X

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





A.1 20dB Emission Bandwidth

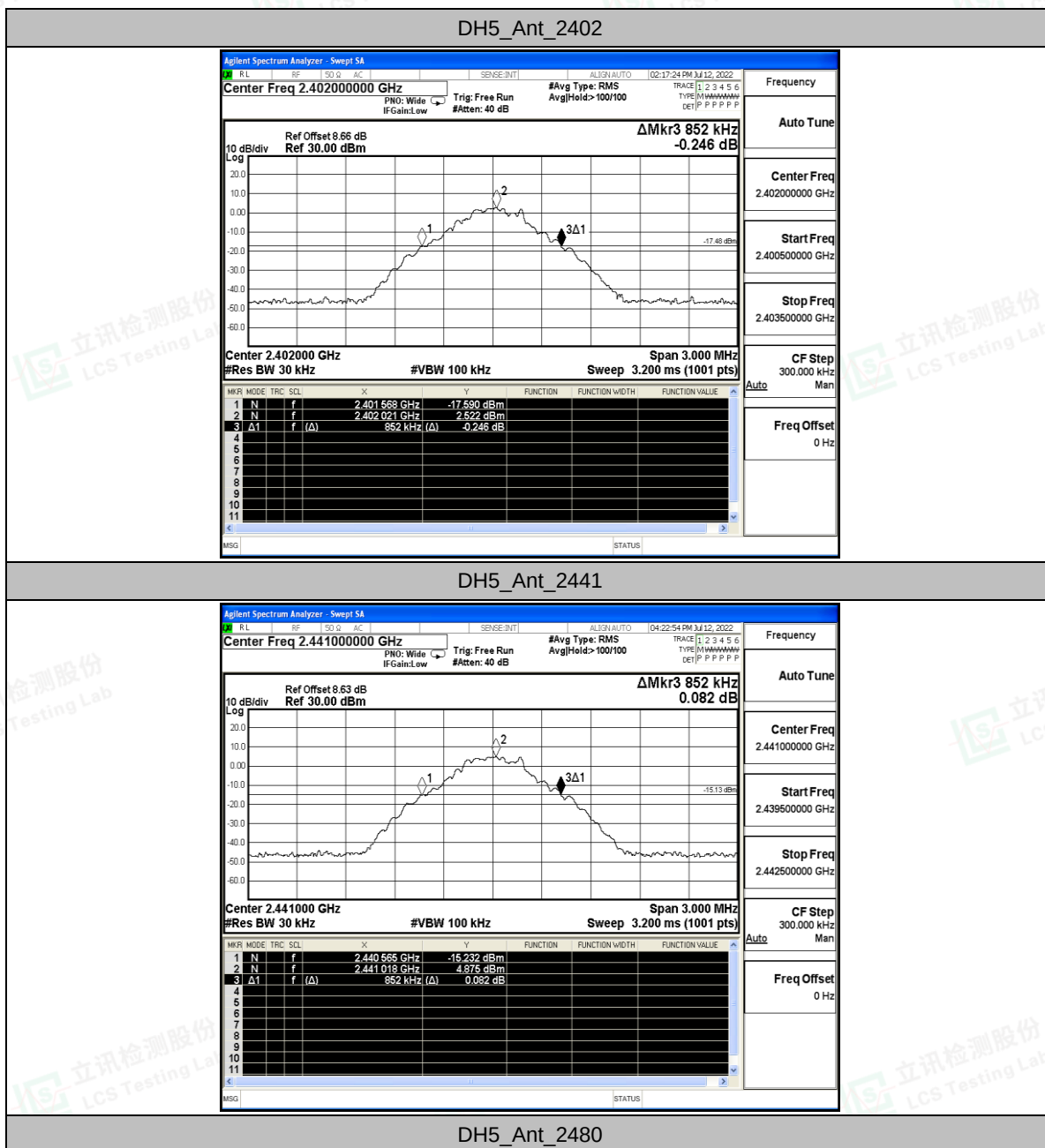
Test Result

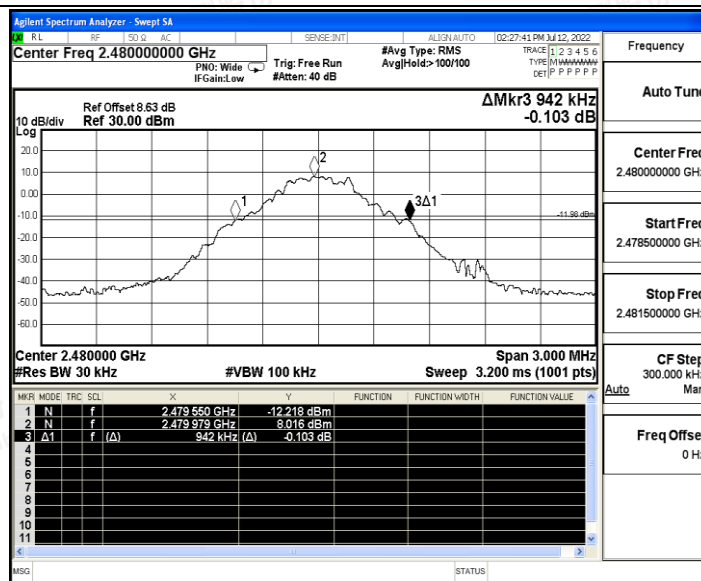
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant	2402	0.852	2401.568	2402.420	---
		2441	0.852	2440.565	2441.417	---
		2480	0.942	2479.550	2480.492	---
2DH5	Ant	2402	1.275	2401.373	2402.648	---
		2441	1.269	2440.373	2441.642	---
		2480	1.308	2479.349	2480.657	---
3DH5	Ant	2402	1.284	2401.568	2402.420	---
		2441	1.293	2440.355	2441.648	---
		2480	1.284	2479.364	2480.648	---



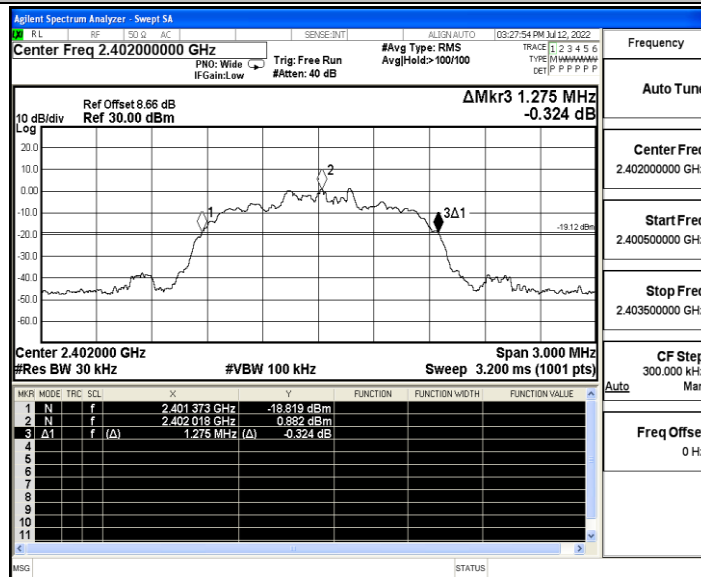


Test Graphs



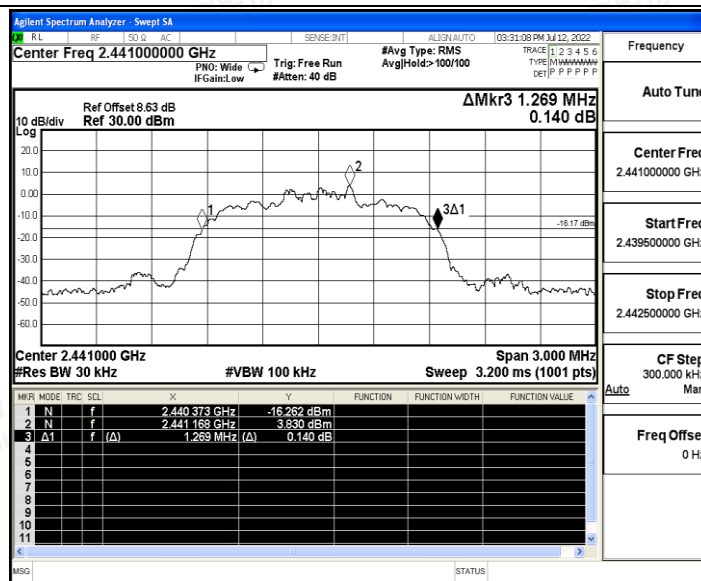


2DH5_Ant_2402

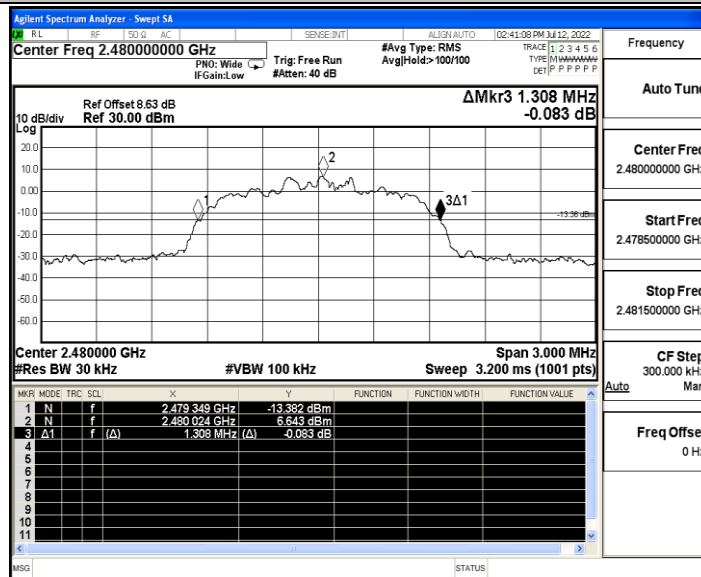


2DH5_Ant_2441



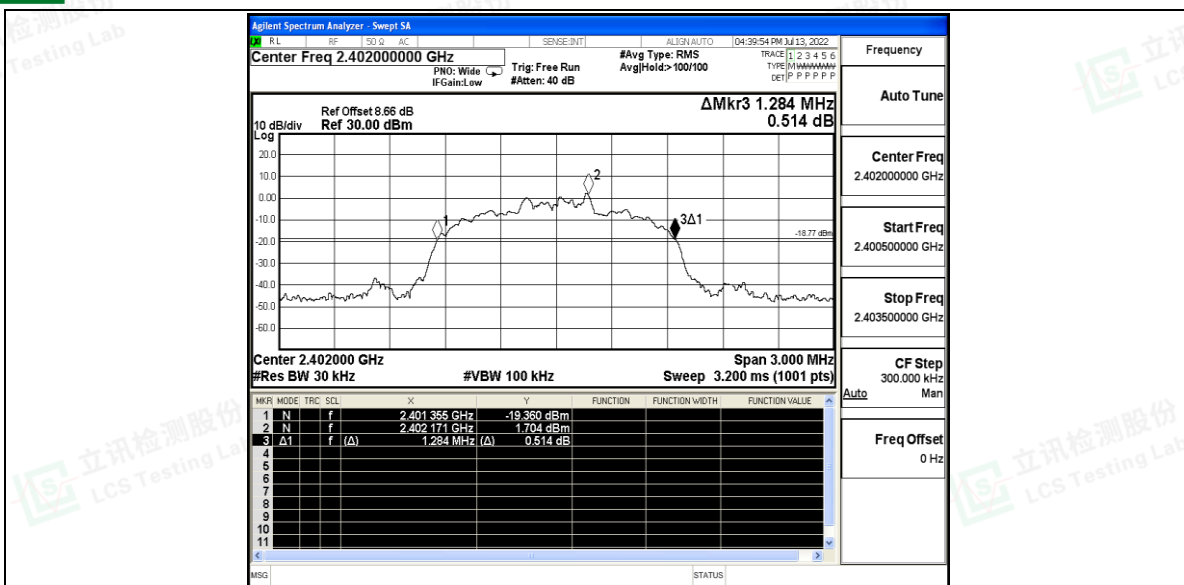


2DH5_Ant_2480

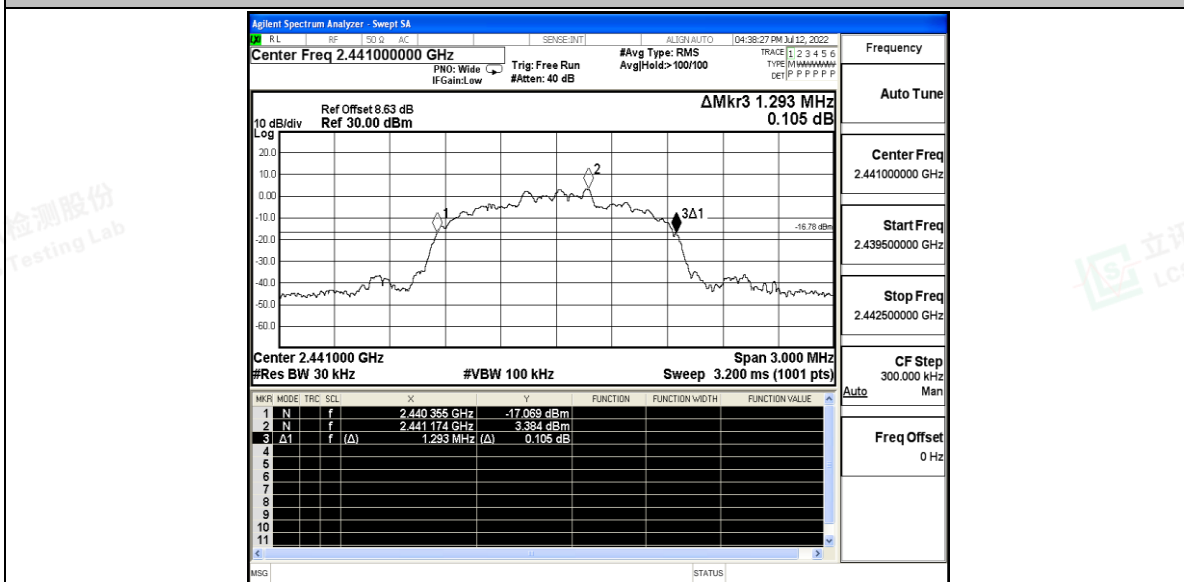


3DH5_Ant_2402



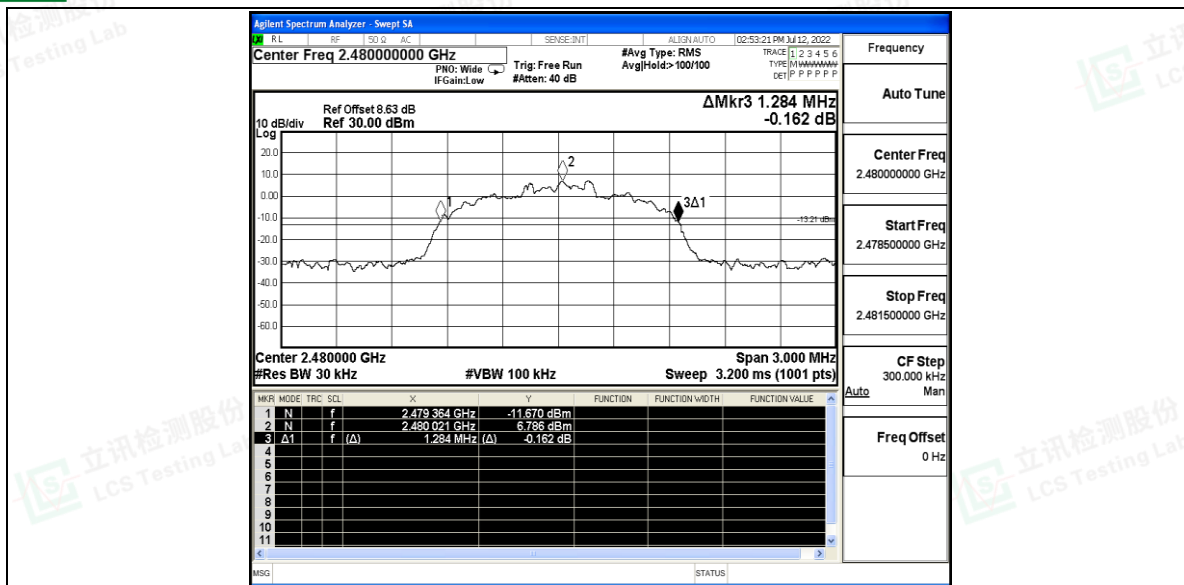


3DH5_Ant_2441



3DH5_Ant_2480







A.2 Maximum conducted output power

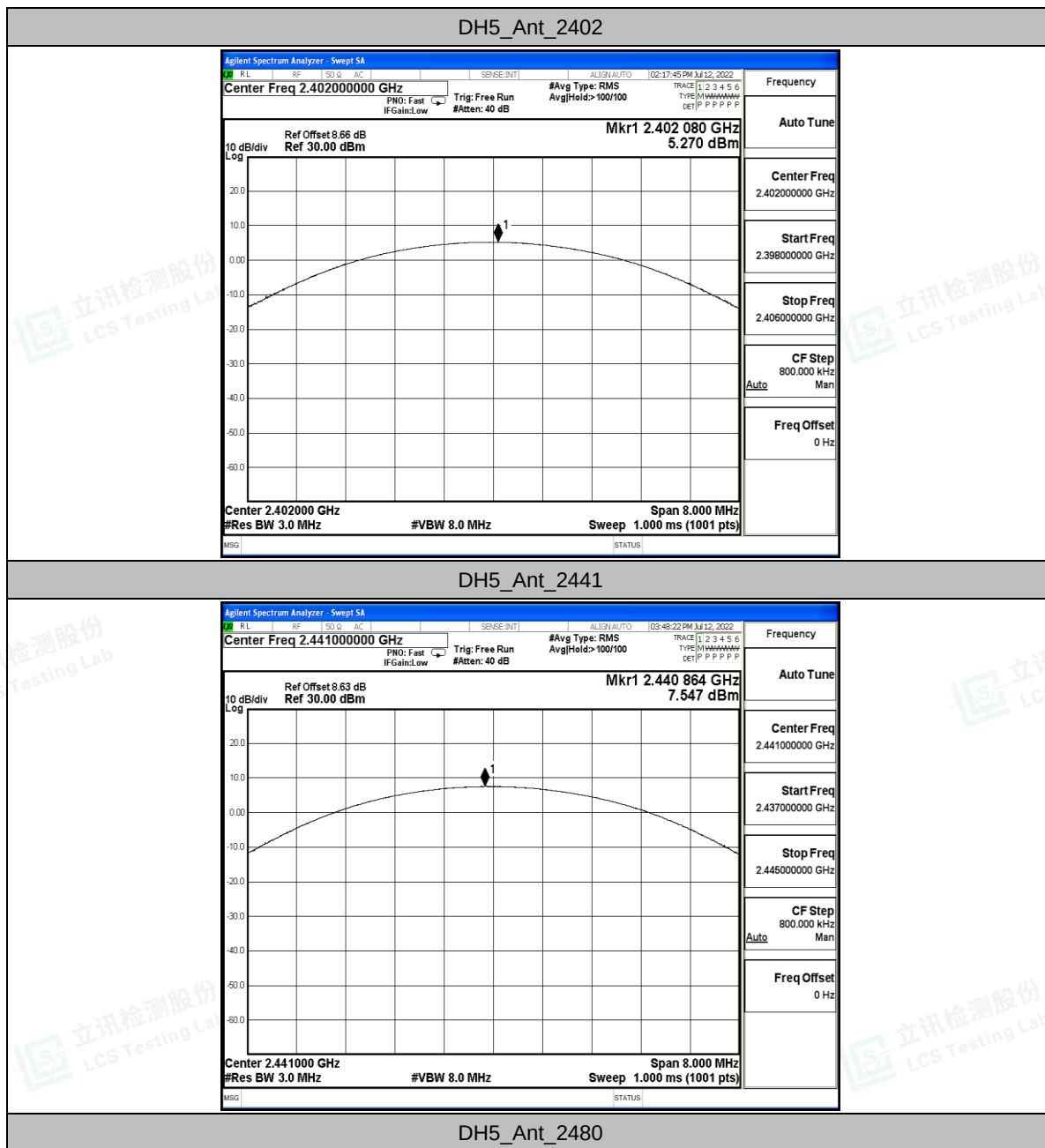
Test Result

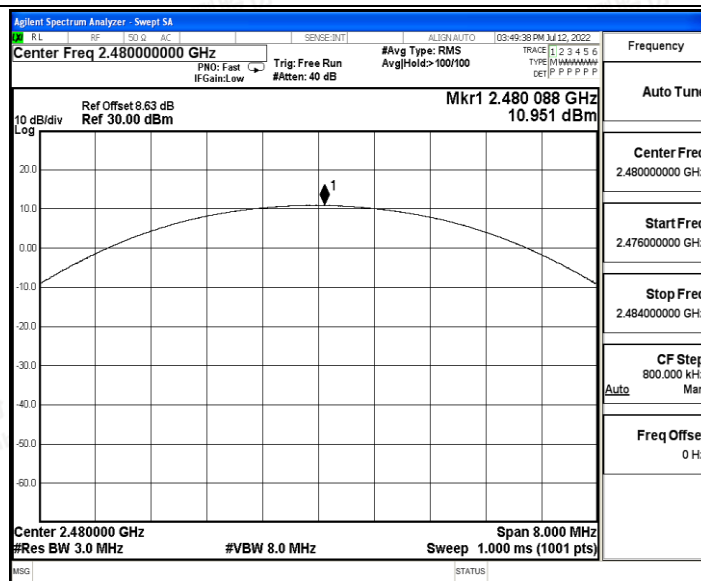
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant	2402	5.27	≤20.97	PASS
		2441	7.55	≤20.97	PASS
		2480	10.95	≤20.97	PASS
2DH5	Ant	2402	4.76	≤20.97	PASS
		2441	6.89	≤20.97	PASS
		2480	11.18	≤20.97	PASS
3DH5	Ant	2402	5.42	≤20.97	PASS
		2441	7.62	≤20.97	PASS
		2480	11.28	≤20.97	PASS



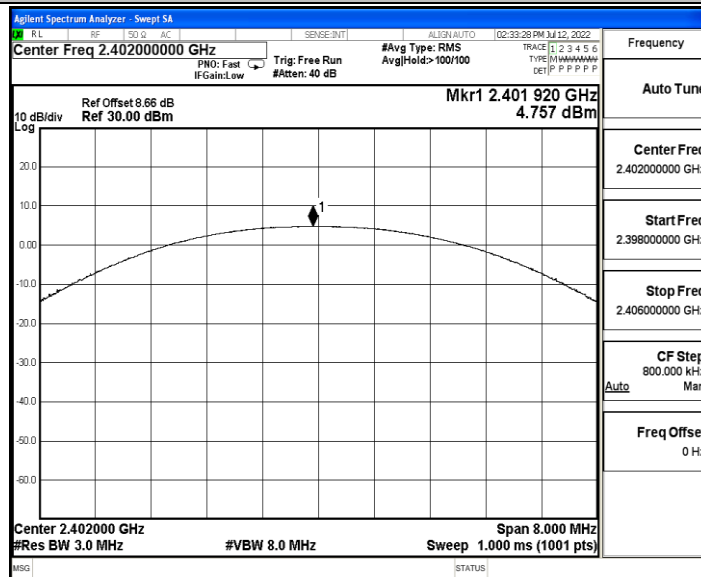


Test Graphs



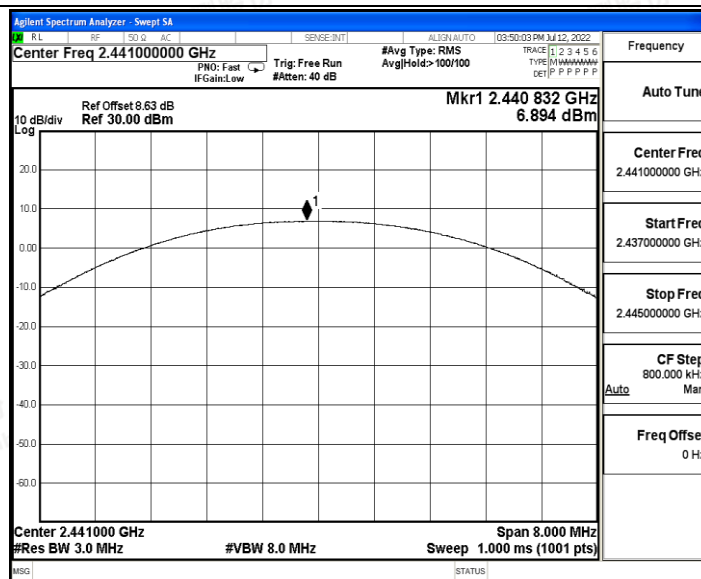


2DH5_Ant_2402

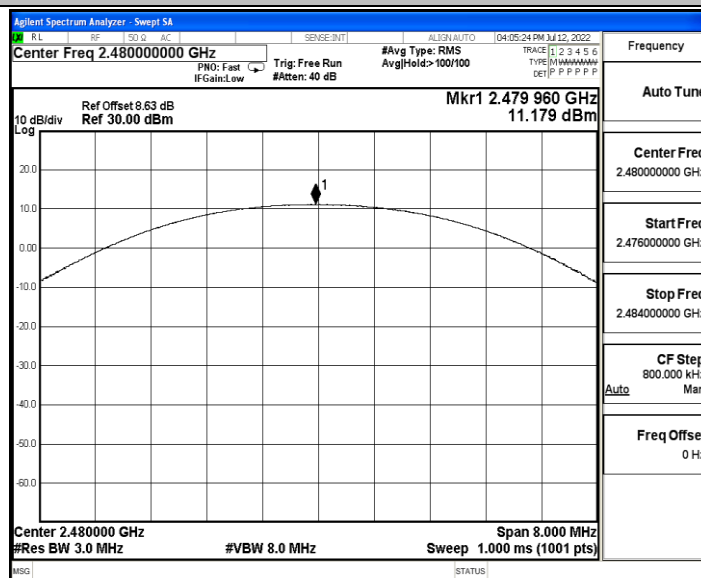


2DH5_Ant_2441



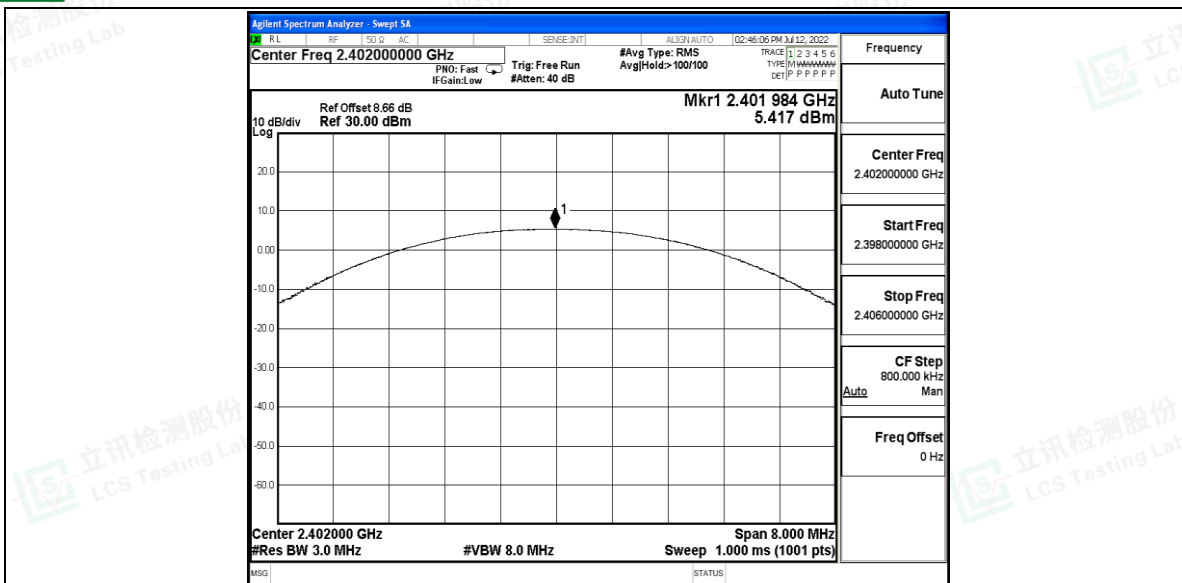


2DH5_Ant_2480

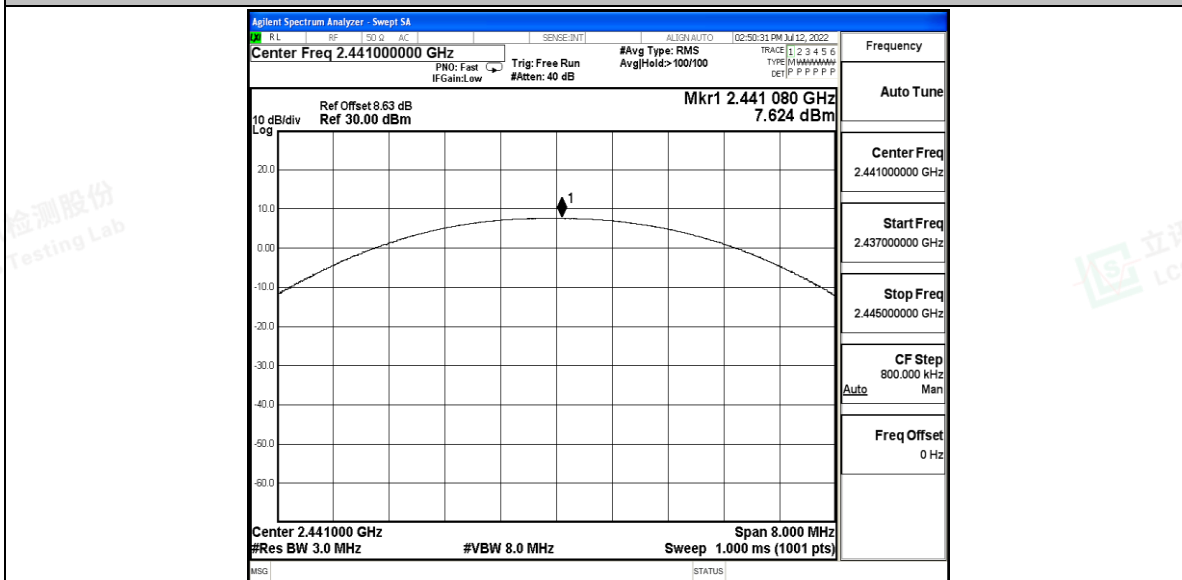


3DH5_Ant_2402



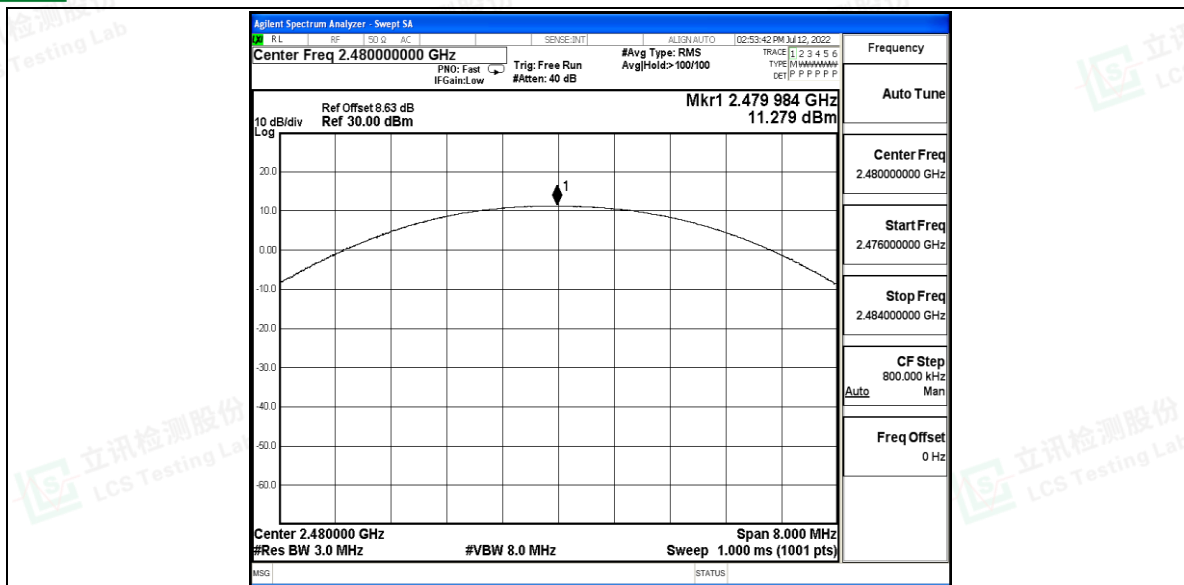


3DH5_Ant_2441



3DH5_Ant_2480







A.3 Carrier frequency separation

Test Result

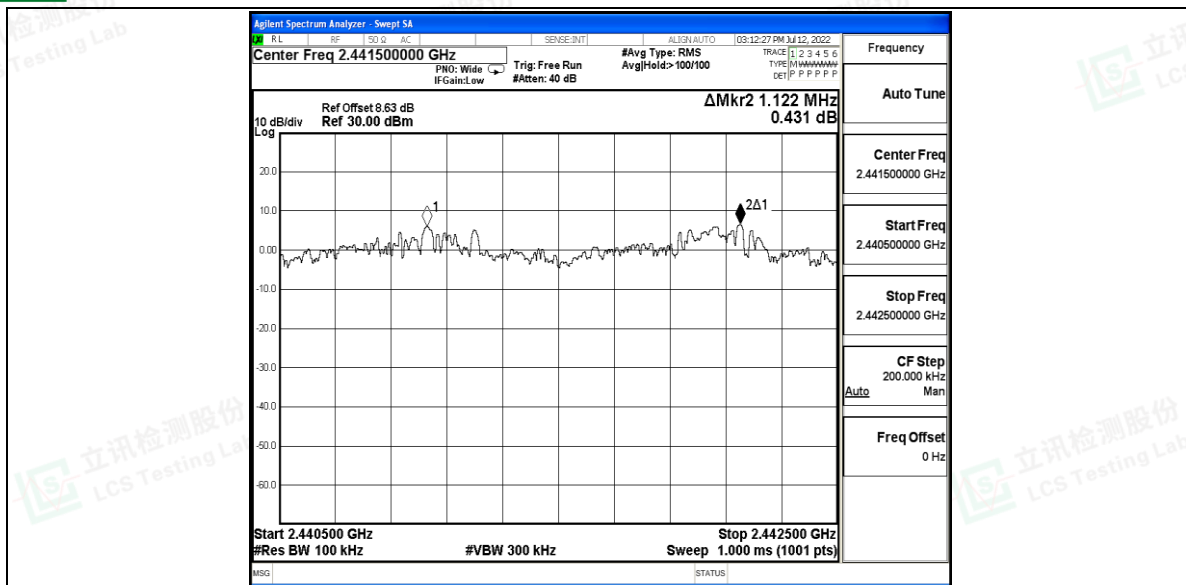
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	1.500	≥ 0.628	PASS
2DH5	Ant	Hop	1.108	≥ 0.872	PASS
3DH5	Ant	Hop	1.122	≥ 0.856	PASS





Test Graphs







A.4 Time of occupancy

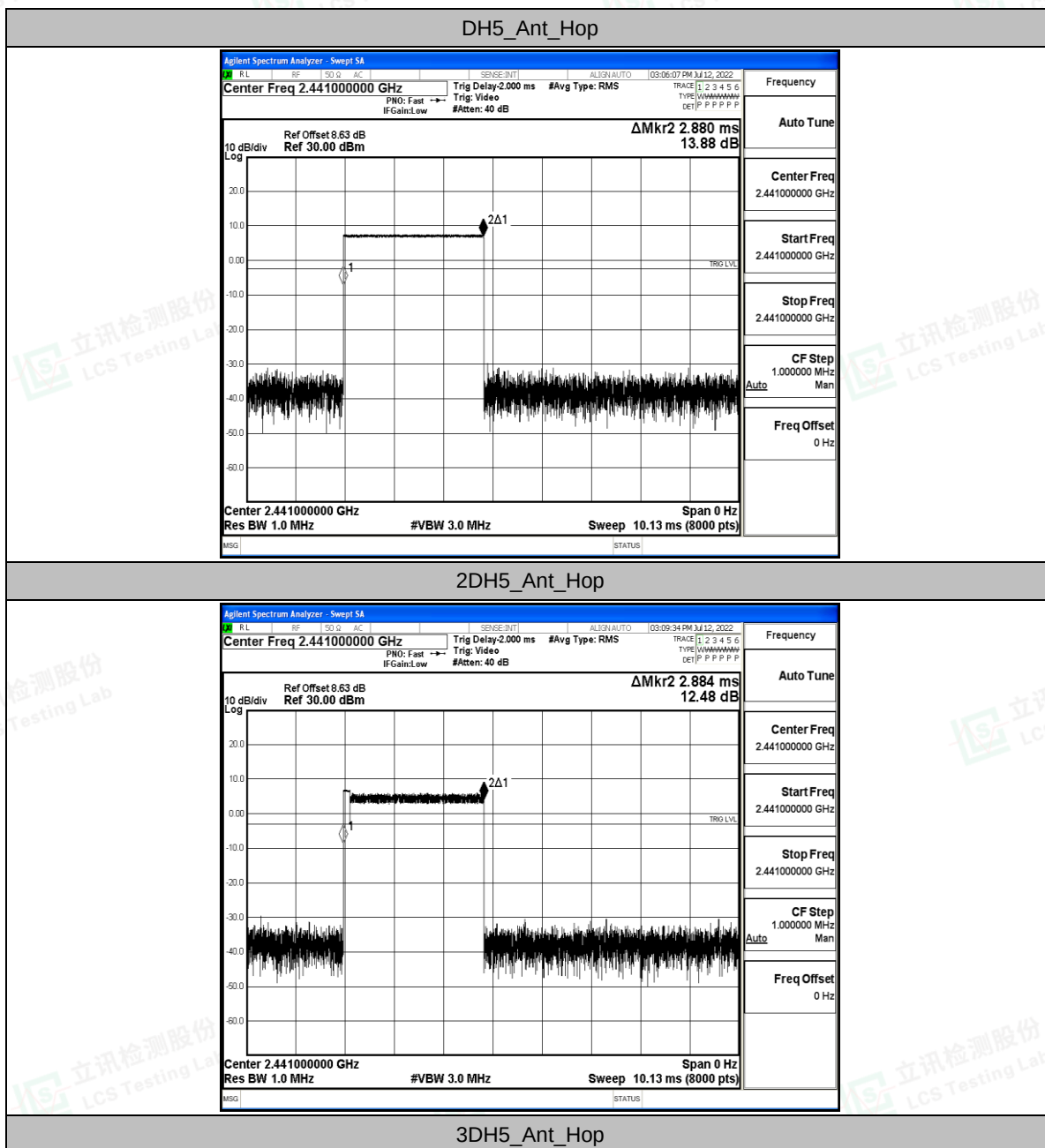
Test Result

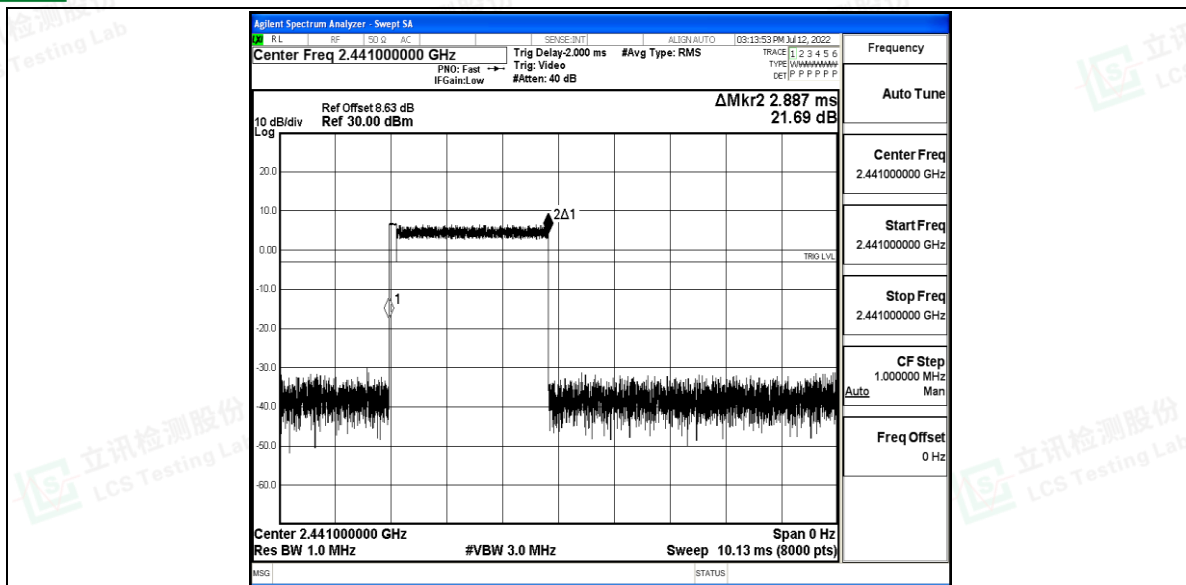
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant	Hop	2.89	106.67	0.308	≤0.4	PASS





Test Graphs





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Scan code to check authenticity



A.5 Number of hopping channels

Test Result

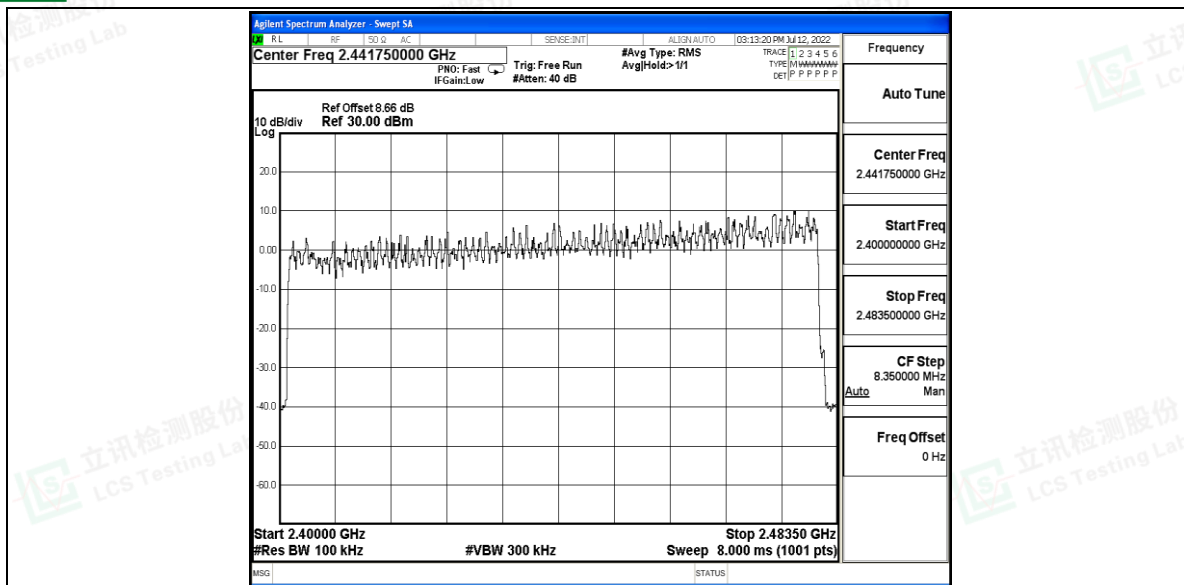
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant	Hop	79	≥15	PASS
2DH5	Ant	Hop	79	≥15	PASS
3DH5	Ant	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

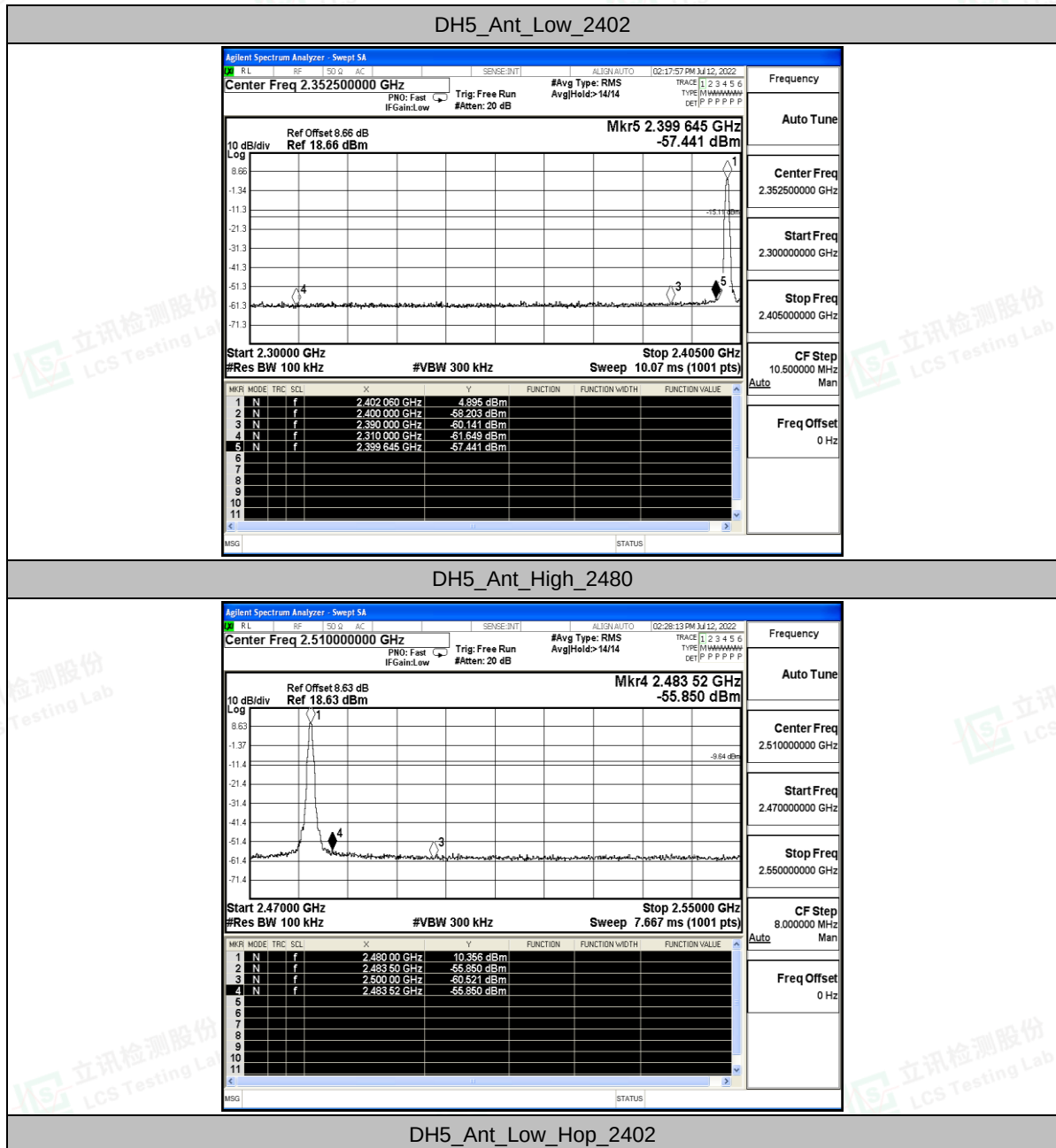
Test Result

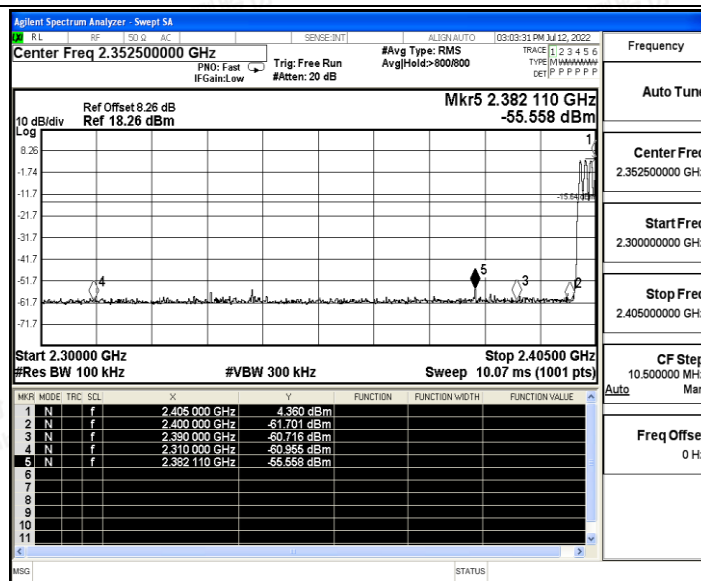
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	4.90	-57.44	≤ -15.11	PASS
		High	2480	10.36	-55.85	≤ -9.64	PASS
		Low	Hop_2402	4.36	-55.56	≤ -15.64	PASS
		High	Hop_2480	9.92	-57.39	≤ -10.08	PASS
2DH5	Ant	Low	2402	4.31	-58.11	≤ -15.69	PASS
		High	2480	10.81	-55.22	≤ -9.2	PASS
		Low	Hop_2402	-1.43	-55.54	≤ -21.43	PASS
		High	Hop_2480	8.77	-57.43	≤ -11.23	PASS
3DH5	Ant	Low	2402	4.64	-57.33	≤ -15.36	PASS
		High	2480	10.46	-53.92	≤ -9.54	PASS
		Low	Hop_2402	1.90	-55.7	≤ -18.1	PASS
		High	Hop_2480	9.55	-57.4	≤ -10.45	PASS



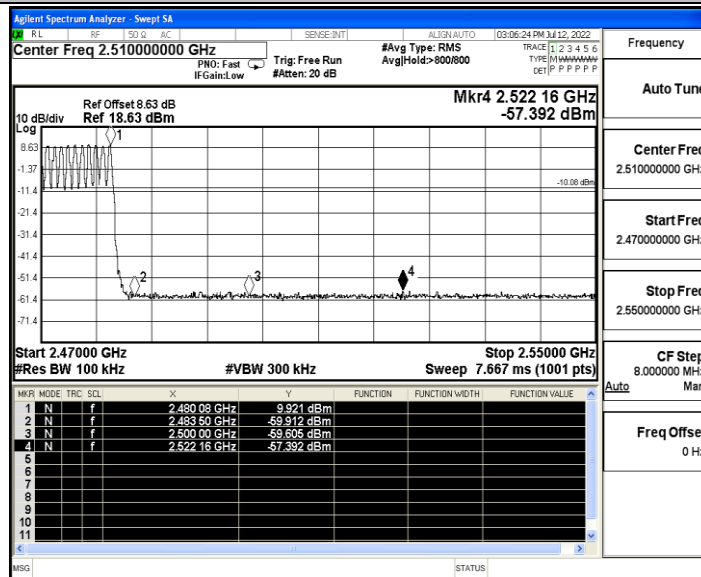


Test Graphs



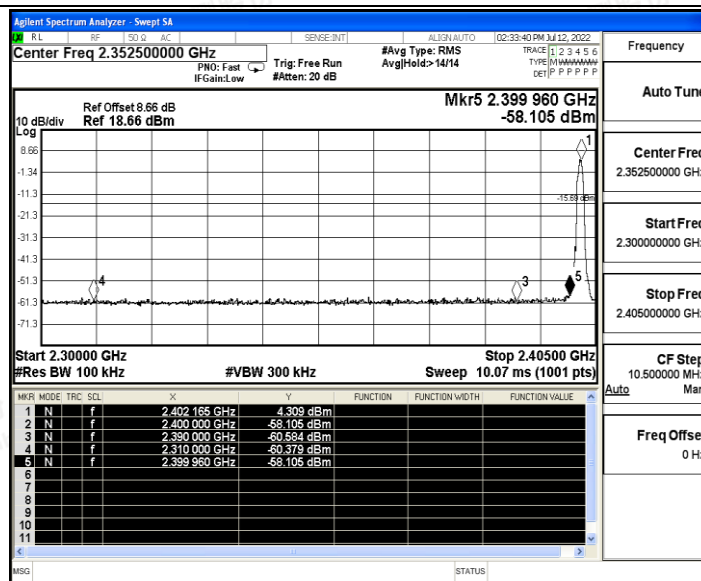


DH5_Ant_High_Hop_2480

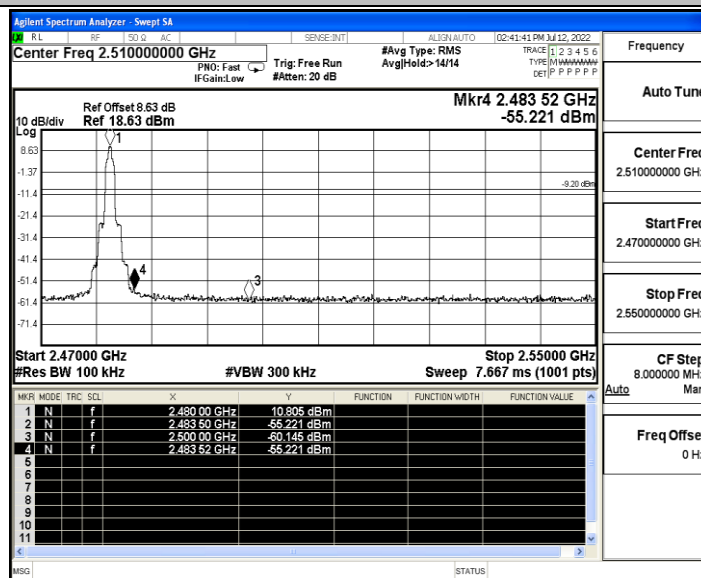


2DH5_Ant_Low_2402



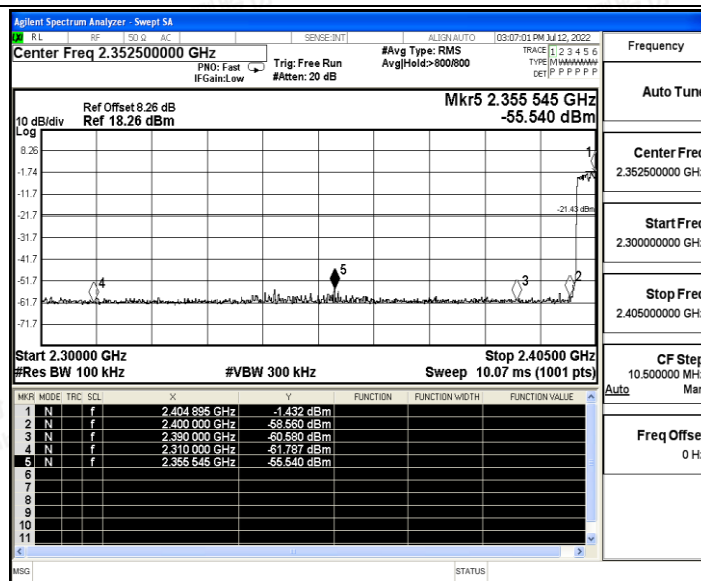


2DH5_Ant_High_2480

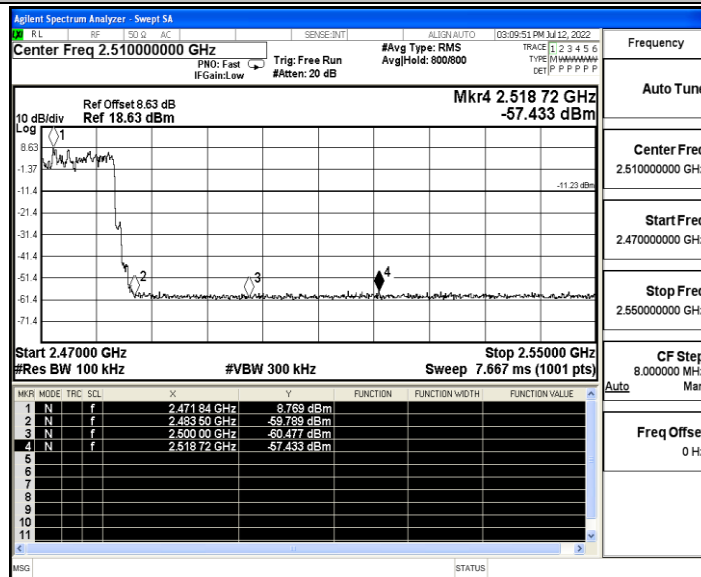


2DH5_Ant_Low_Hop_2402



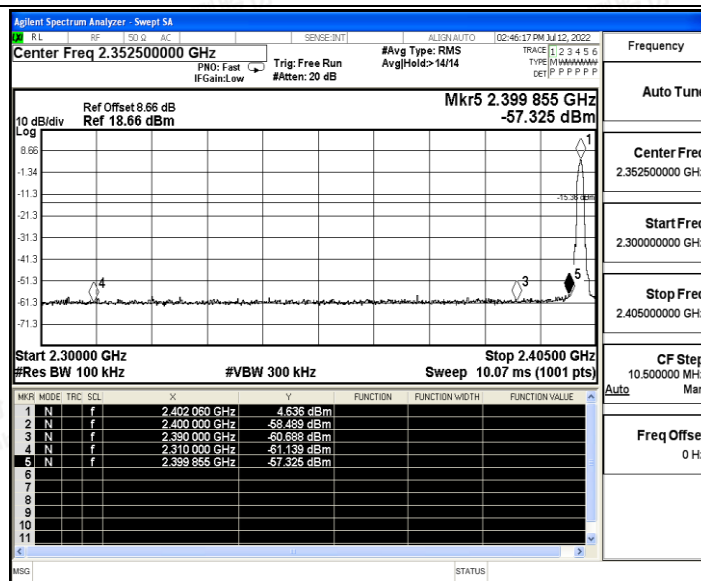


2DH5_Ant_High_Hop_2480

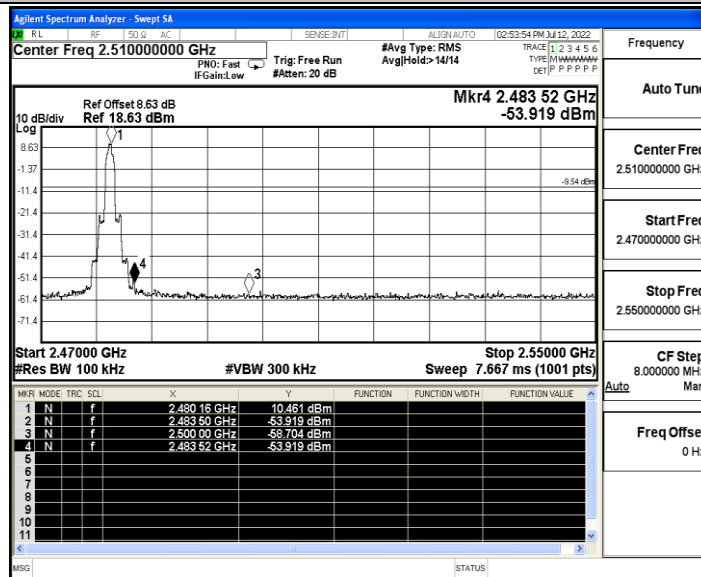


3DH5_Ant_Low_2402



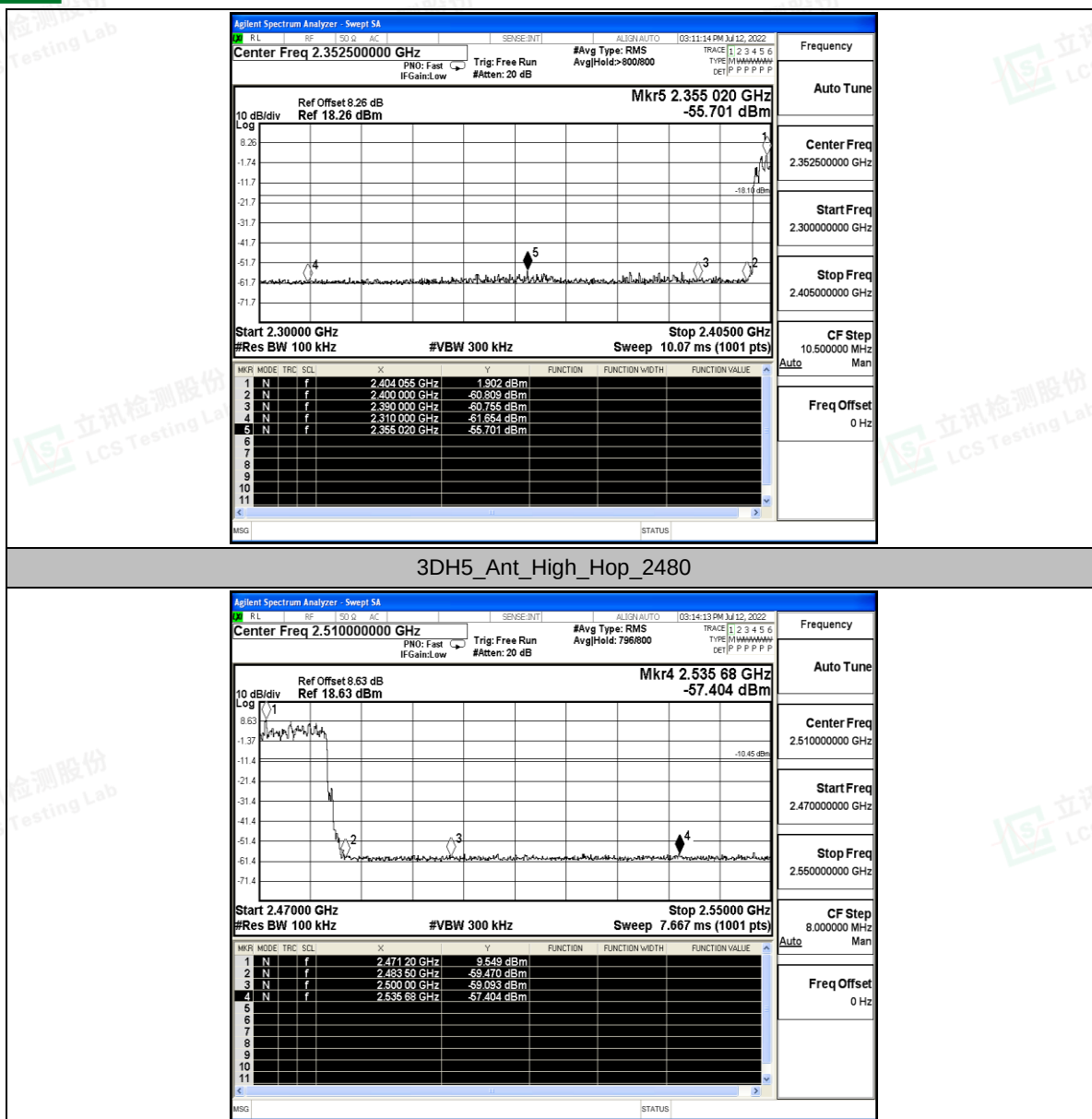


3DH5_Ant_High_2480



3DH5_Ant_Low_Hop_2402







A.7 Conducted Spurious Emission

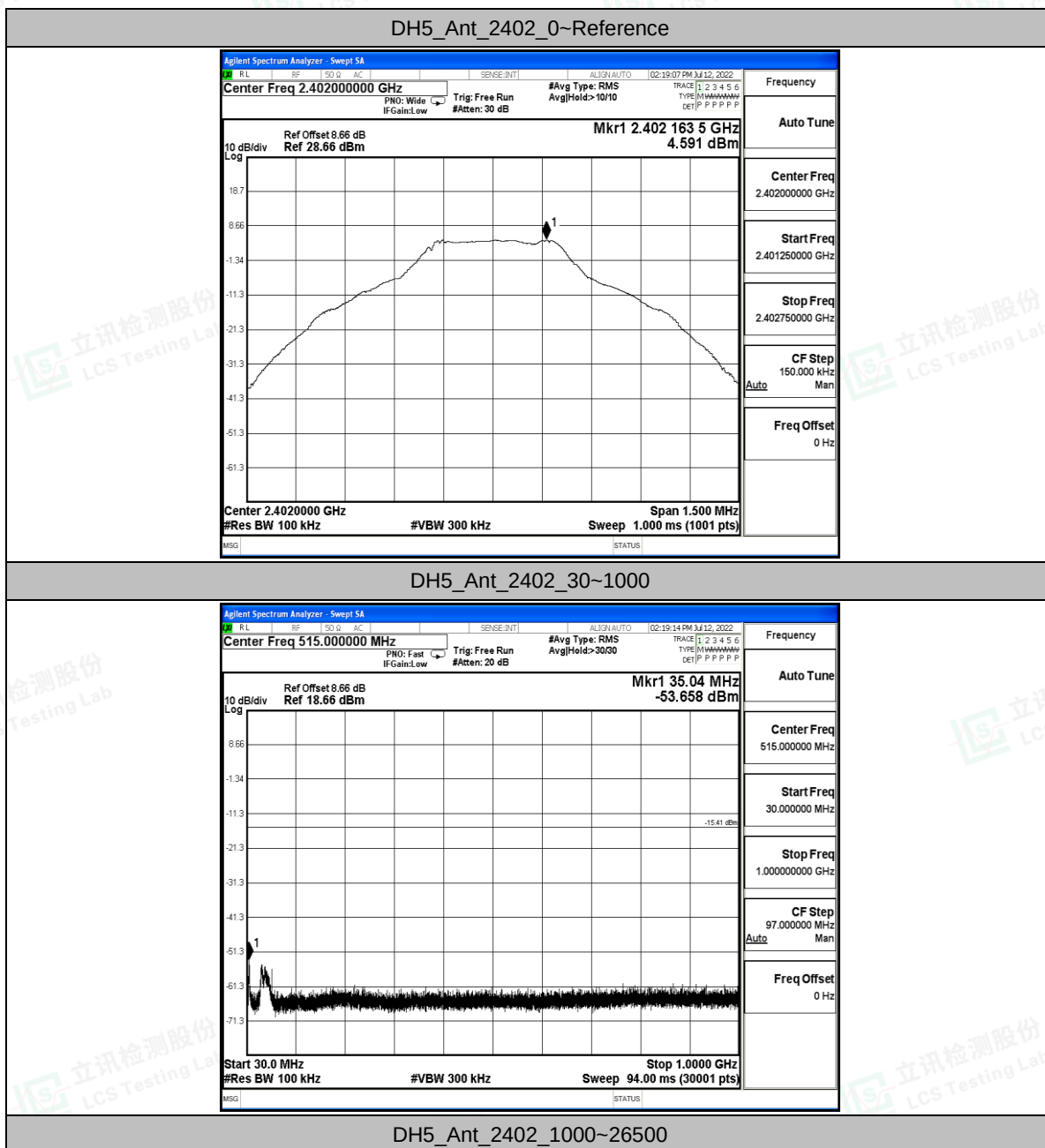
Test Result

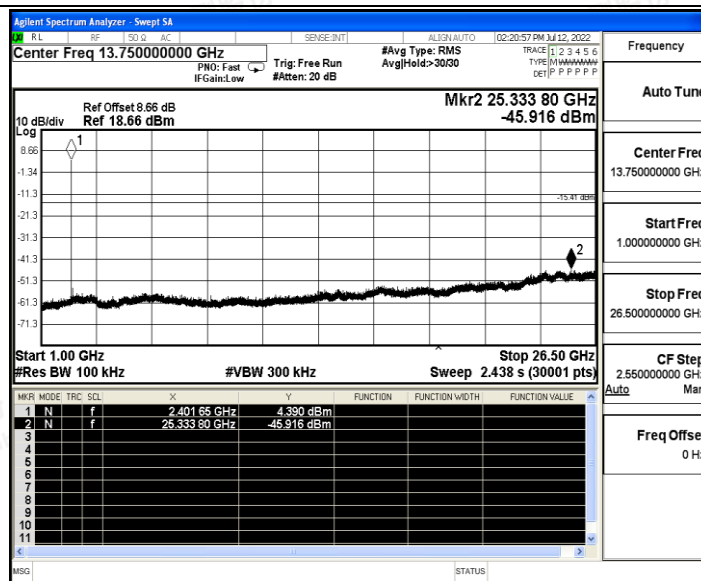
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	Reference	4.59	4.59	---	PASS
			30~1000	4.59	-53.66	≤ -15.41	PASS
			1000~26500	4.59	-45.92	≤ -15.41	PASS
		2441	Reference	6.90	6.90	---	PASS
			30~1000	6.90	-53.13	≤ -13.1	PASS
			1000~26500	6.90	-45.5	≤ -13.1	PASS
		2480	Reference	10.35	10.35	---	PASS
			30~1000	10.35	-53.19	≤ -9.65	PASS
			1000~26500	10.35	-46.06	≤ -9.65	PASS
2DH5	Ant	2402	Reference	4.32	4.32	---	PASS
			30~1000	4.32	-50.98	≤ -15.68	PASS
			1000~26500	4.32	-46.57	≤ -15.68	PASS
		2441	Reference	6.02	6.02	---	PASS
			30~1000	6.02	-52.99	≤ -13.98	PASS
			1000~26500	6.02	-46.09	≤ -13.98	PASS
		2480	Reference	10.48	10.48	---	PASS
			30~1000	10.48	-53.5	≤ -9.52	PASS
			1000~26500	10.48	-46.23	≤ -9.52	PASS
3DH5	Ant	2402	Reference	4.87	4.87	---	PASS
			30~1000	4.87	-52.77	≤ -15.13	PASS
			1000~26500	4.87	-45.77	≤ -15.13	PASS
		2441	Reference	7.21	7.21	---	PASS
			30~1000	7.21	-49.89	≤ -12.79	PASS
			1000~26500	7.21	-45.72	≤ -12.79	PASS
		2480	Reference	10.47	10.47	---	PASS
			30~1000	10.47	-51.5	≤ -9.53	PASS
			1000~26500	10.47	-45.73	≤ -9.53	PASS



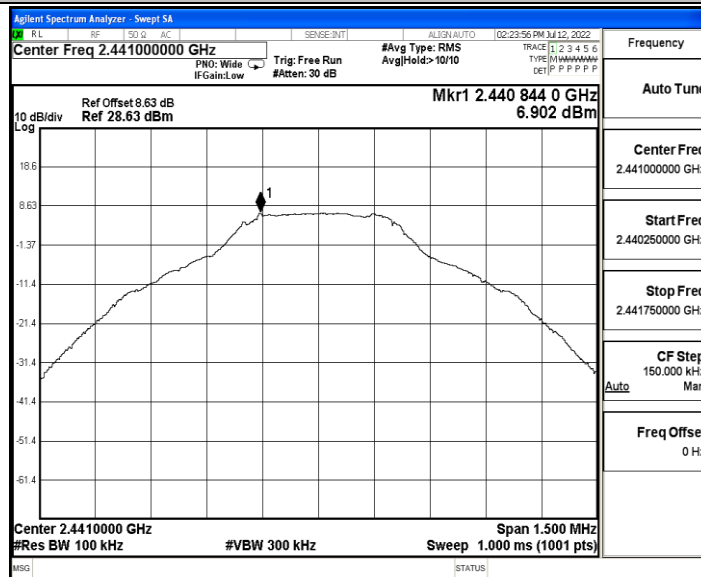


Test Graphs



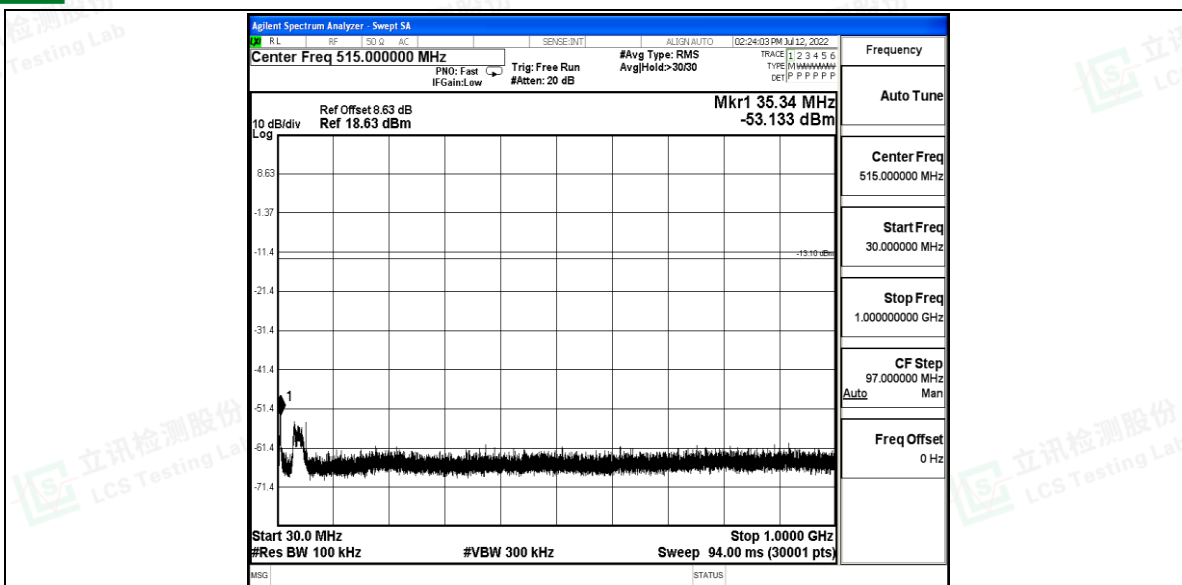


DH5_Ant_2441_0~Reference

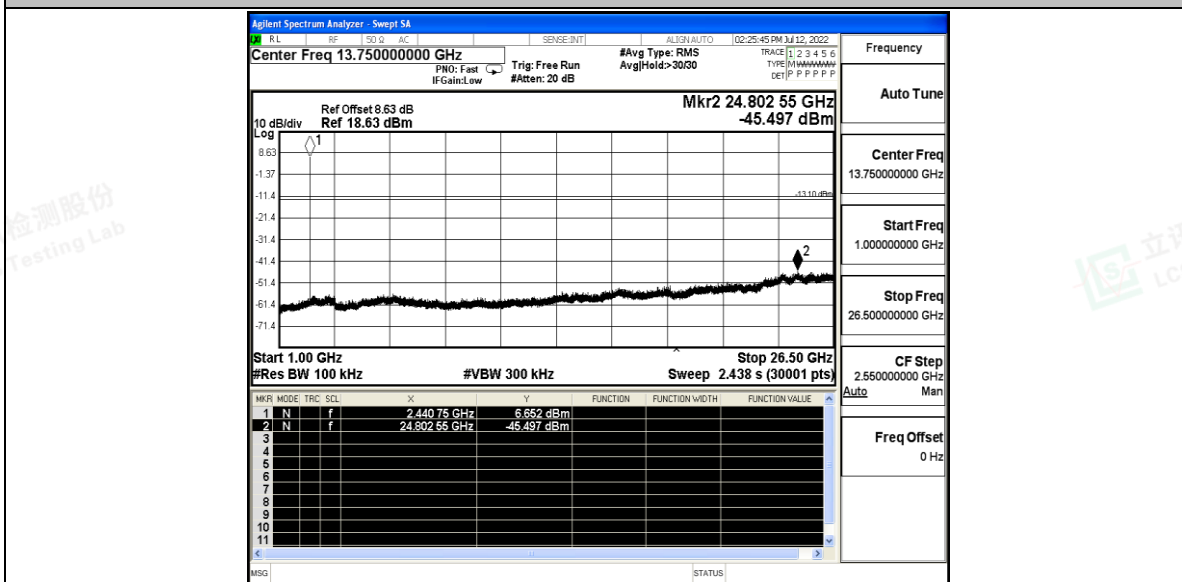


DH5_Ant_2441_30~1000



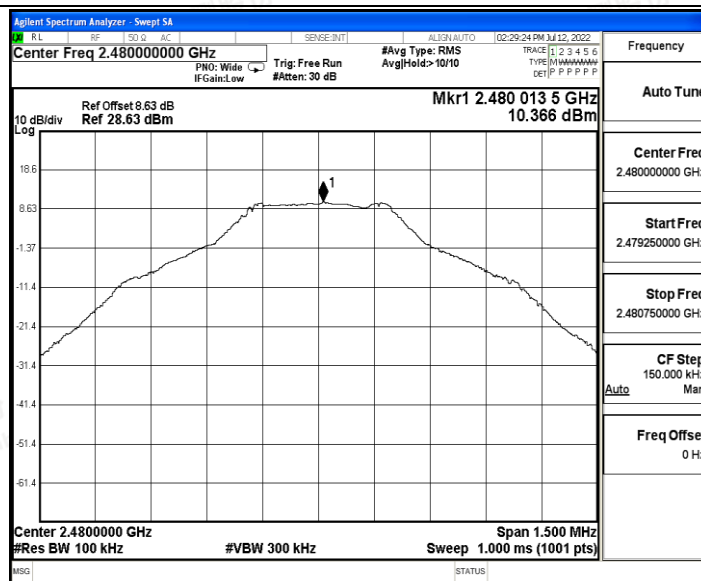


DH5_Ant_2441_1000~26500

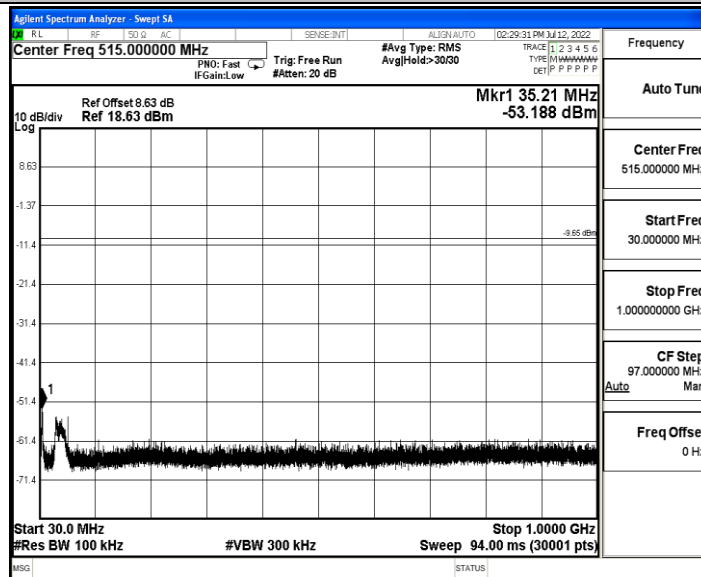


DH5_Ant_2480_0~Reference



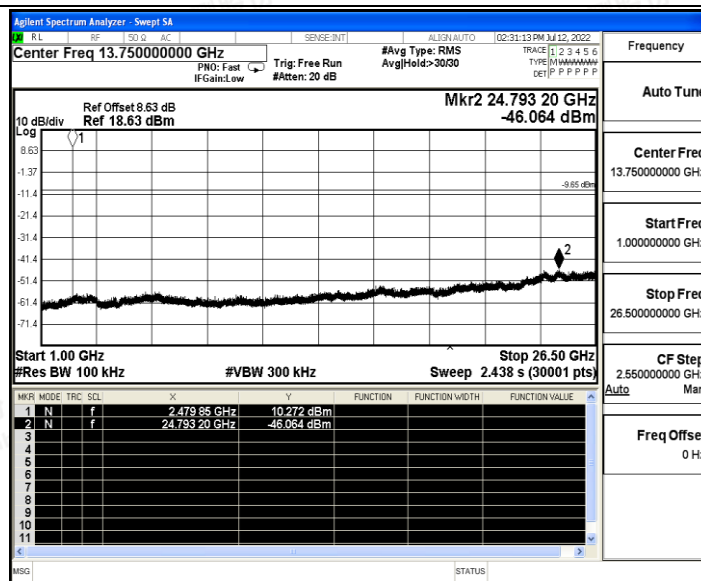


DH5_Ant_2480_30~1000

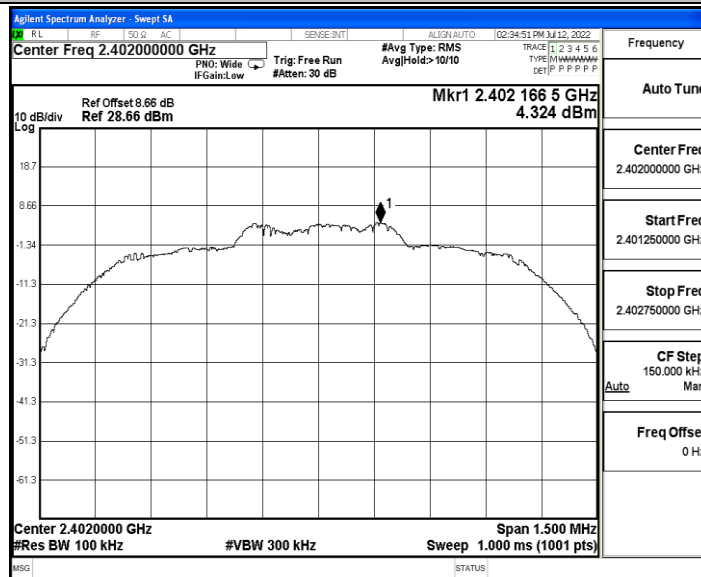


DH5_Ant_2480_1000~26500



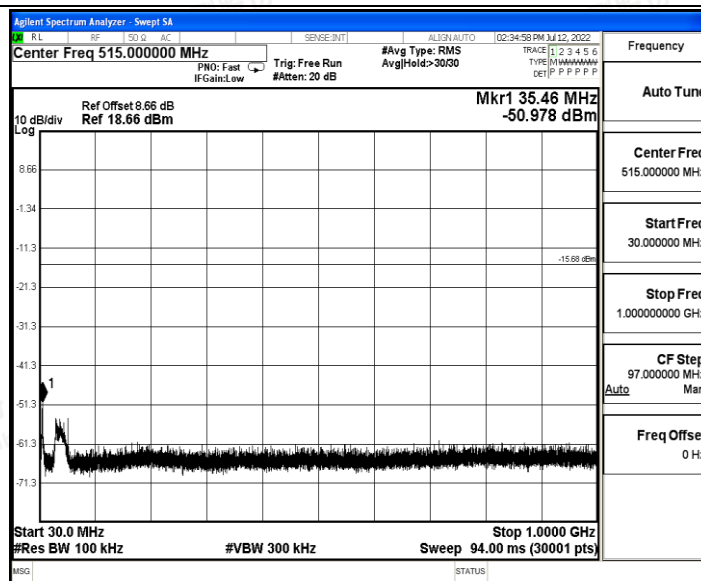


2DH5_Ant_2402_0~Reference

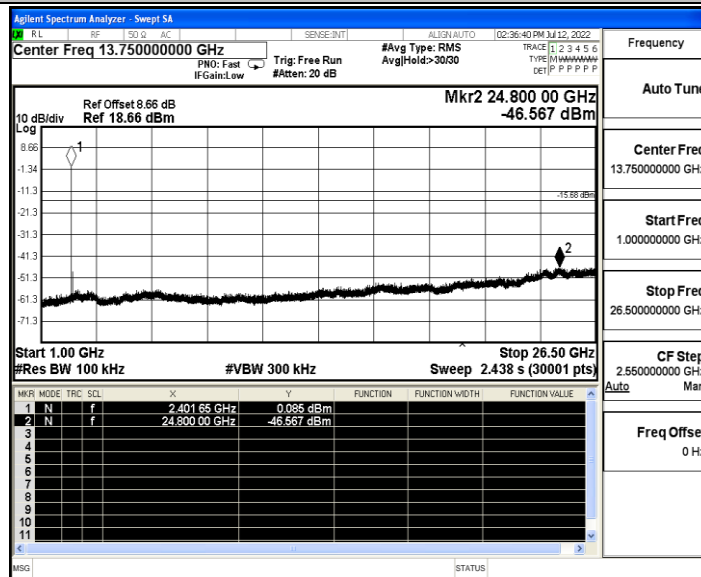


2DH5_Ant_2402_30~1000



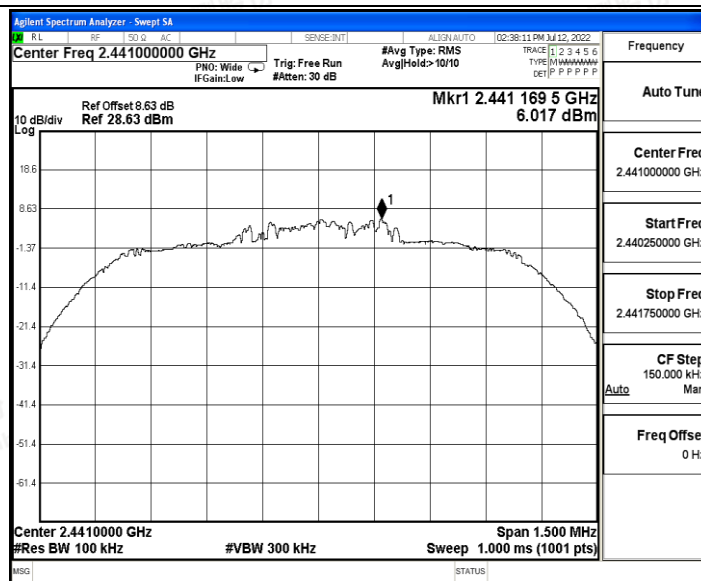


2DH5_Ant_2402_1000~26500

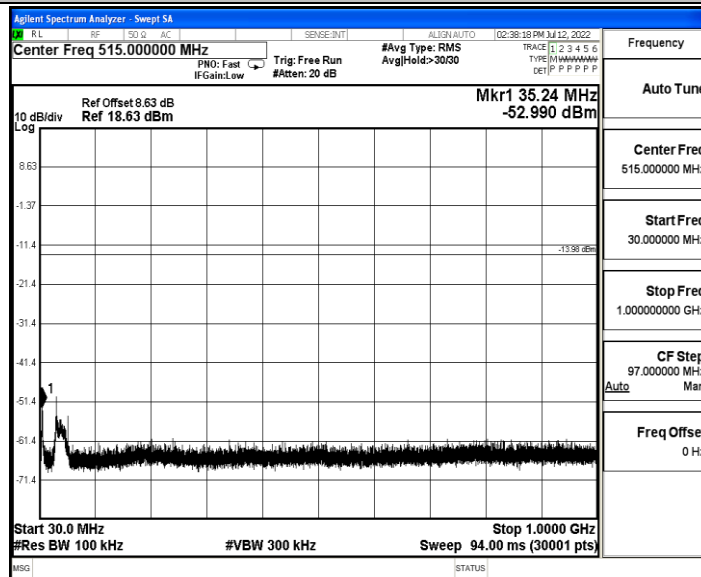


2DH5_Ant_2441_0~Reference



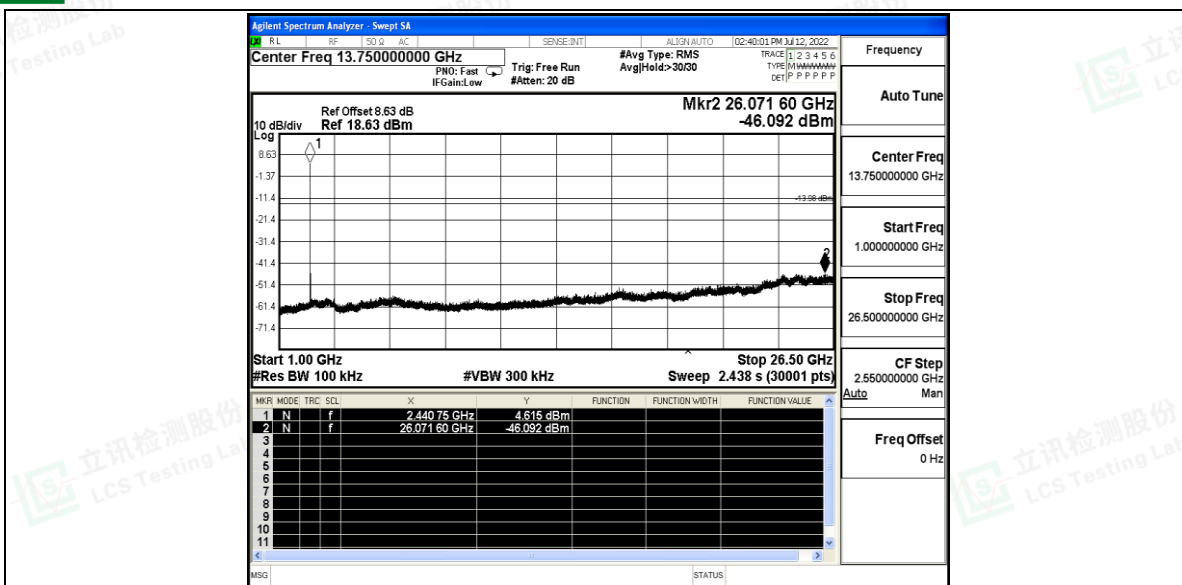


2DH5_Ant_2441_30~1000

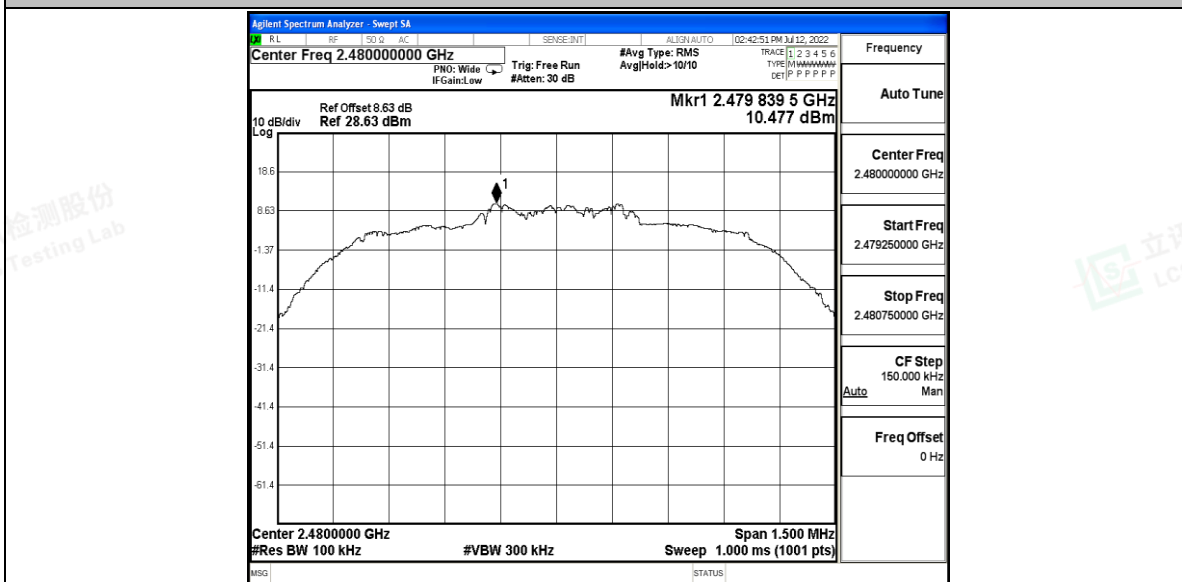


2DH5_Ant_2441_1000~26500



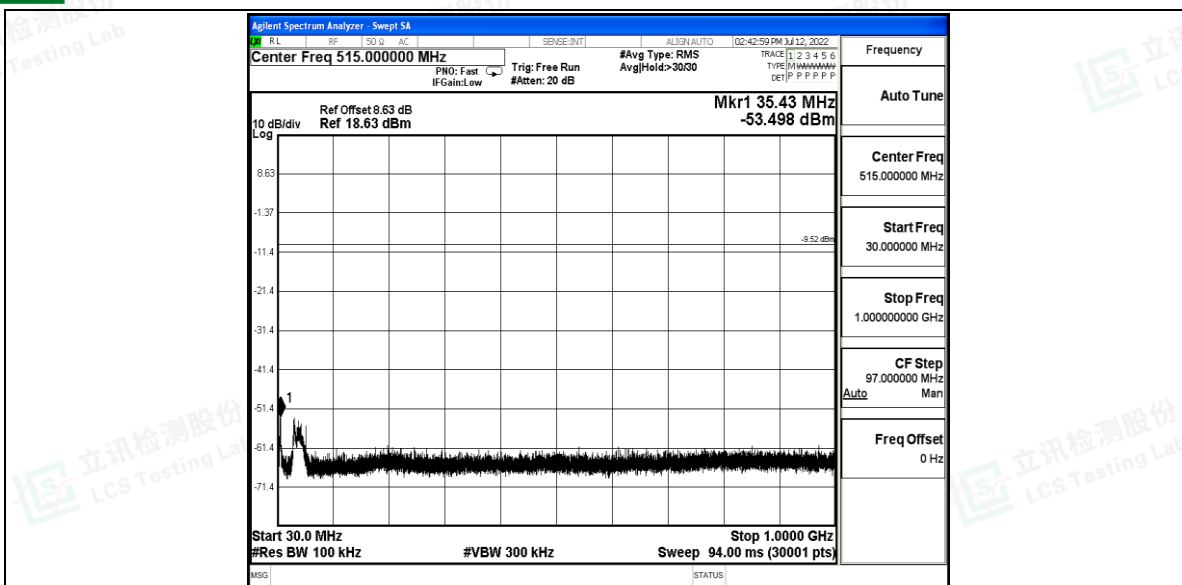


2DH5_Ant_2480_0~Reference

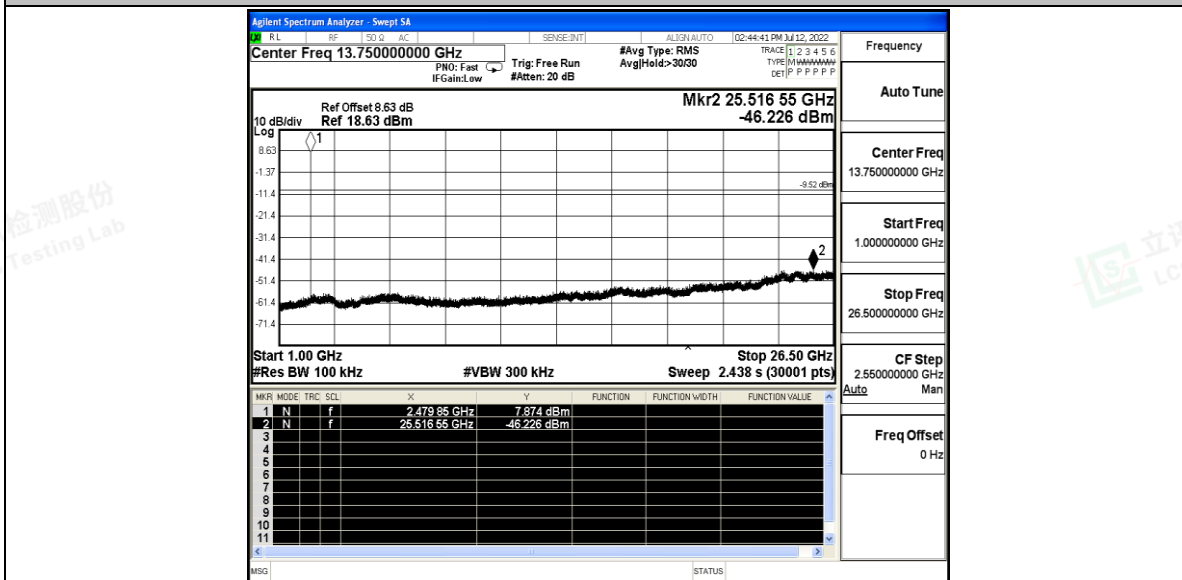


2DH5_Ant_2480_30~1000



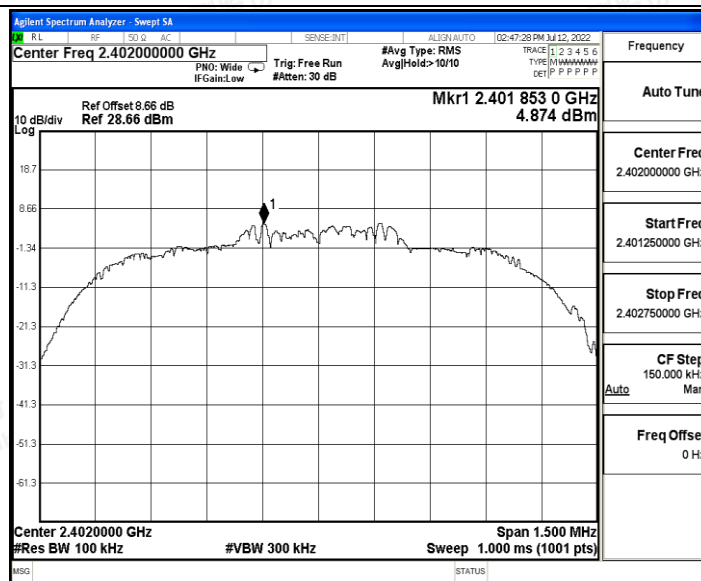


2DH5_Ant_2480_1000~26500

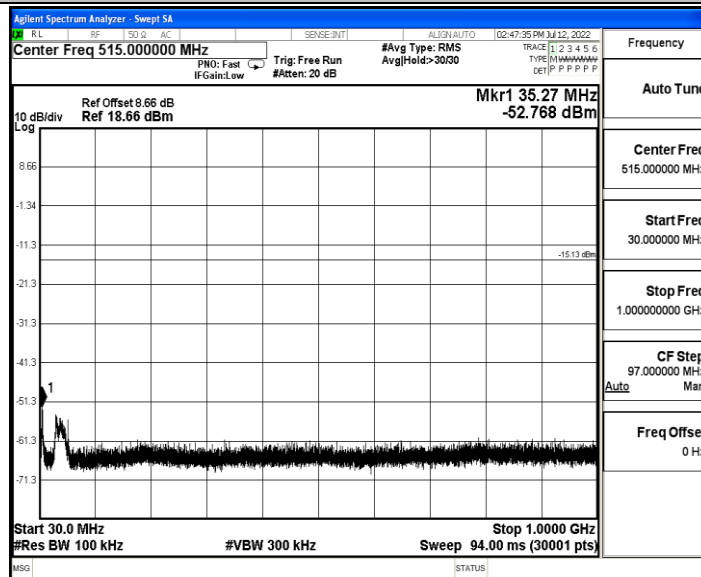


3DH5_Ant_2402_0~Reference



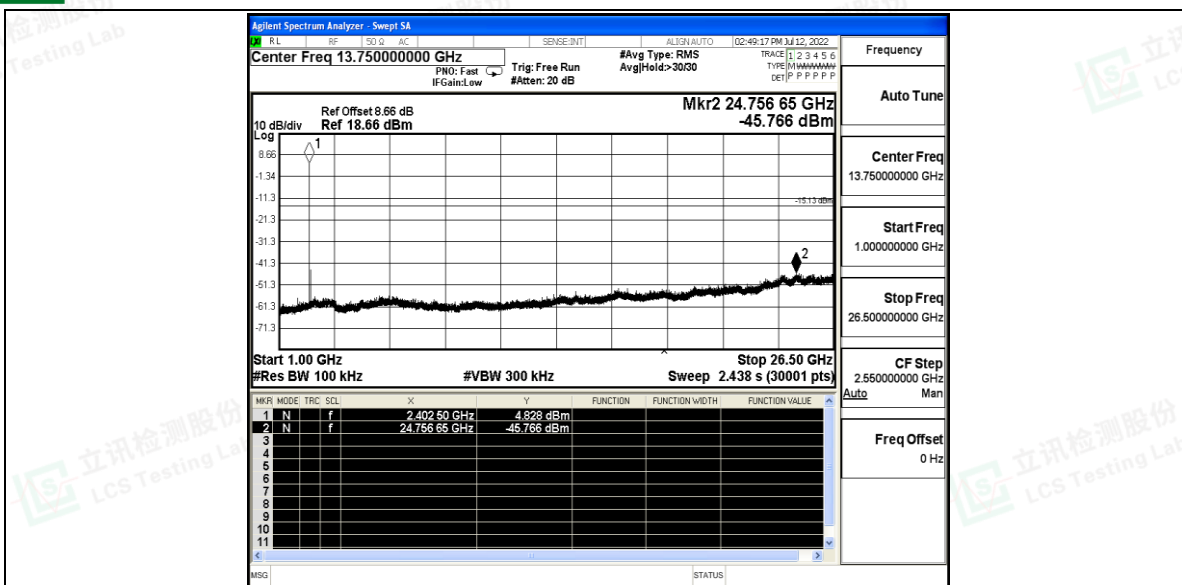


3DH5_Ant_2402_30~1000

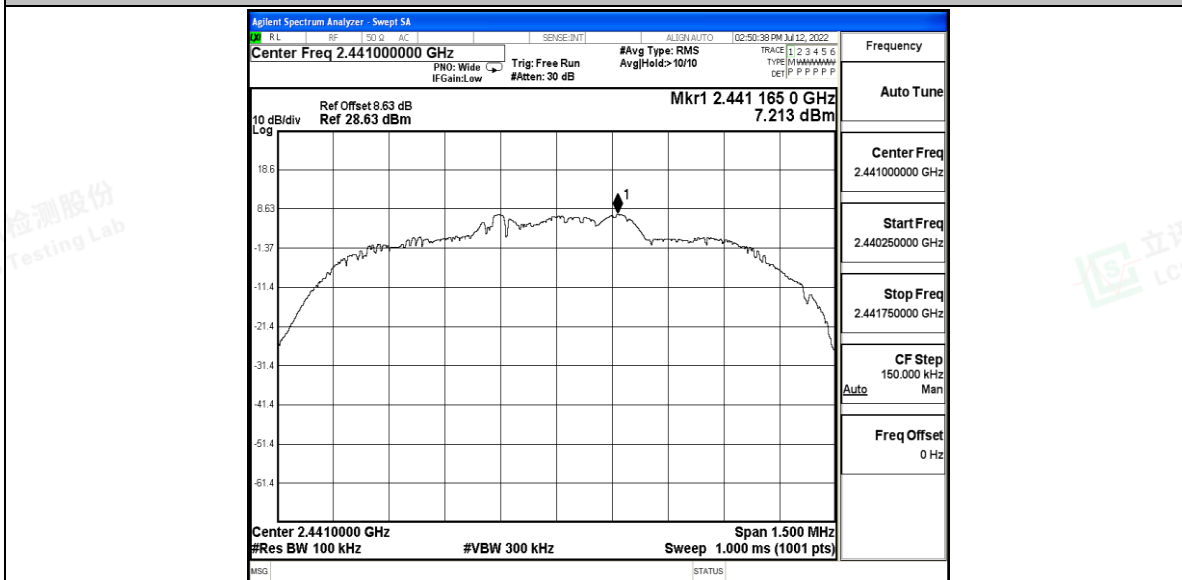


3DH5_Ant_2402_1000~26500



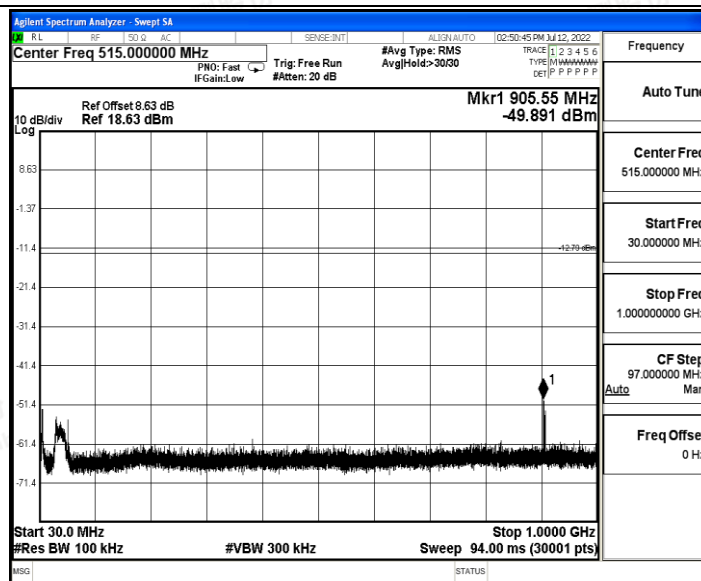


3DH5_Ant_2441_0~Reference

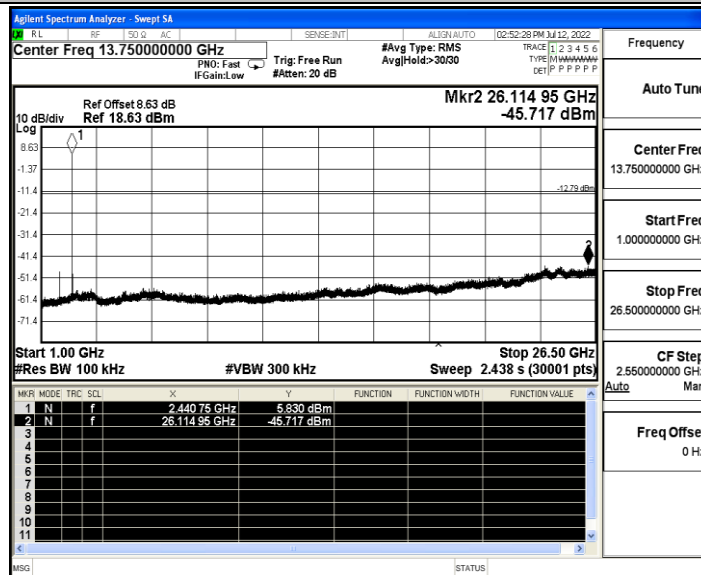


3DH5_Ant_2441_30~1000



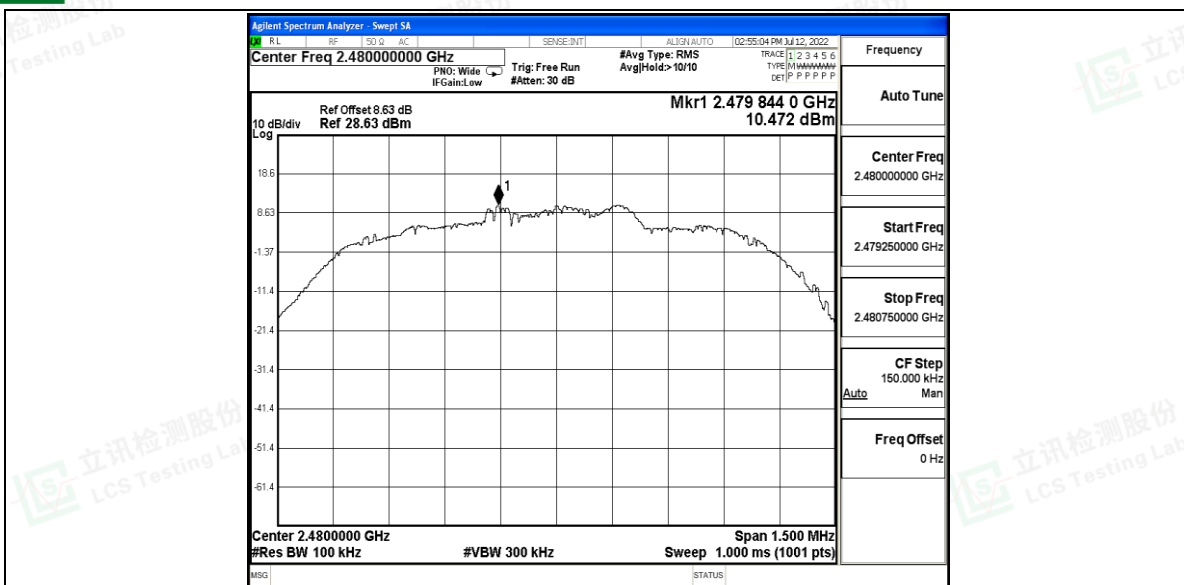


3DH5_Ant_2441_1000~26500

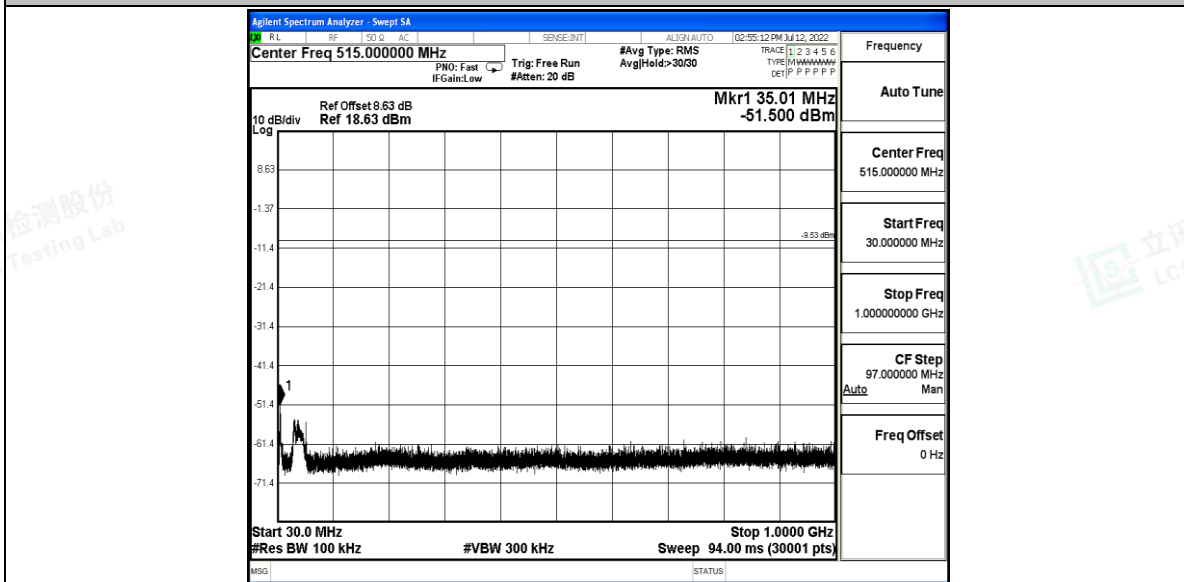


3DH5_Ant_2480_0~Reference



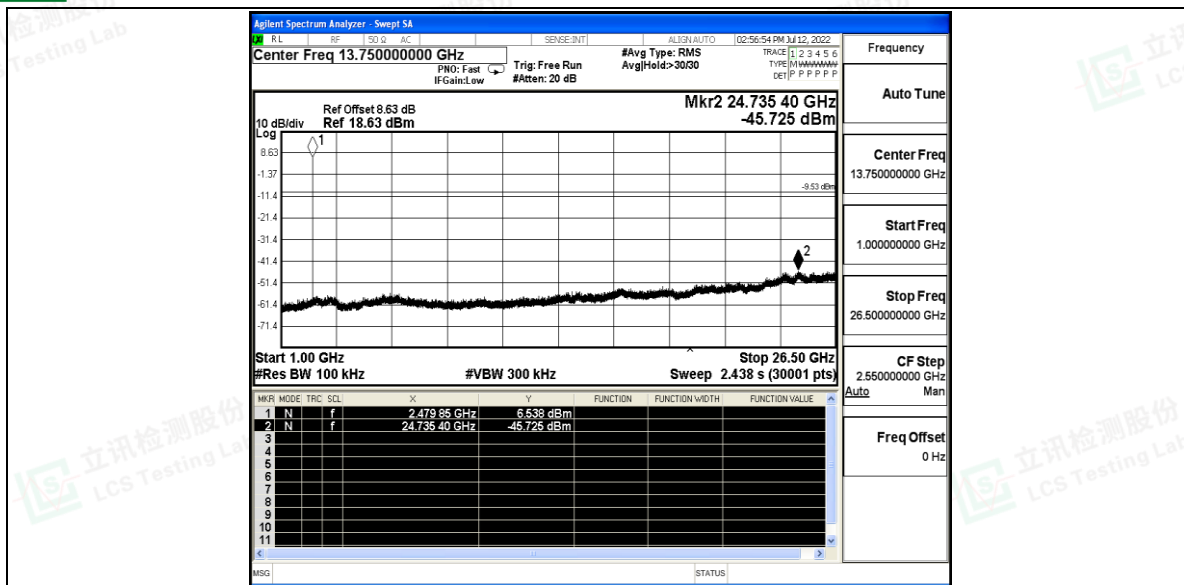


3DH5_Ant_2480_30~1000



3DH5_Ant_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	Ant	Low	2402	AV	2310.000	-57.83	≤-41.20	37.37	≤54	PASS
				AV	2389.880	-56.89	≤-41.20	38.31	≤54	PASS
				AV	2390.000	-56.97	≤-41.20	38.23	≤54	PASS
				Peak	2310.000	-48.36	≤-21.20	46.84	≤74	PASS
				Peak	2385.050	-45.82	≤-21.20	49.38	≤74	PASS
				Peak	2390.000	-48	≤-21.20	47.20	≤74	PASS
		High	2480	AV	2483.500	-48.62	≤-41.20	46.58	≤54	PASS
				AV	2483.520	-48.62	≤-41.20	46.58	≤54	PASS
				AV	2500.000	-56.16	≤-41.20	39.04	≤54	PASS
				Peak	2483.500	-44.5	≤-21.20	50.70	≤74	PASS
				Peak	2484.160	-43.69	≤-21.20	51.51	≤74	PASS
				Peak	2500.000	-46.81	≤-21.20	48.39	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-57.82	≤-41.20	37.38	≤54	PASS
				AV	2388.830	-56.78	≤-41.20	38.42	≤54	PASS
				AV	2390.000	-57.08	≤-41.20	38.12	≤54	PASS
				Peak	2310.000	-48.66	≤-21.20	46.54	≤74	PASS
				Peak	2381.375	-46.52	≤-21.20	48.68	≤74	PASS
				Peak	2390.000	-48.06	≤-21.20	47.14	≤74	PASS
		High	2480	AV	2483.500	-45.17	≤-41.20	50.03	≤54	PASS
				AV	2483.520	-45.17	≤-41.20	50.03	≤54	PASS
				AV	2500.000	-56.19	≤-41.20	39.01	≤54	PASS
				Peak	2483.500	-40.36	≤-21.20	54.84	≤74	PASS
				Peak	2483.520	-40.36	≤-21.20	54.84	≤74	PASS
				Peak	2500.000	-47.5	≤-21.20	47.70	≤74	PASS
3DH5	Ant	Low	2402	AV	2310.000	-57.63	≤-41.20	37.57	≤54	PASS
				AV	2387.360	-56.73	≤-41.20	38.47	≤54	PASS
				AV	2390.000	-56.9	≤-41.20	38.30	≤54	PASS
				Peak	2310.000	-48.55	≤-21.20	46.65	≤74	PASS
				Peak	2364.470	-45.95	≤-21.20	49.25	≤74	PASS
				Peak	2390.000	-47.04	≤-21.20	48.16	≤74	PASS
		High	2480	AV	2483.500	-47.3	≤-41.20	47.90	≤54	PASS
				AV	2483.520	-47.83	≤-41.20	47.37	≤54	PASS
				AV	2500.000	-56.15	≤-41.20	39.05	≤54	PASS
				Peak	2483.500	-40.21	≤-21.20	54.99	≤74	PASS





			Peak	2483.600	-39.77	≤-21.20	55.43	≤74	PASS
			Peak	2500.000	-46.72	≤-21.20	48.48	≤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.

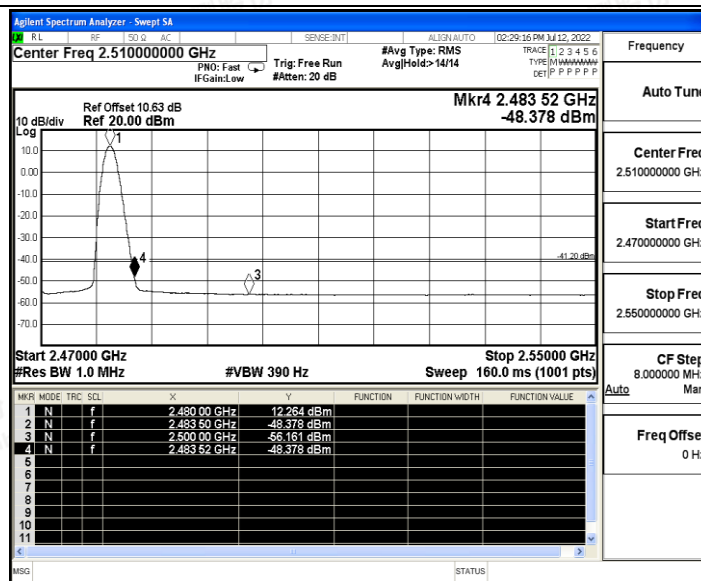


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Scan code to check authenticity

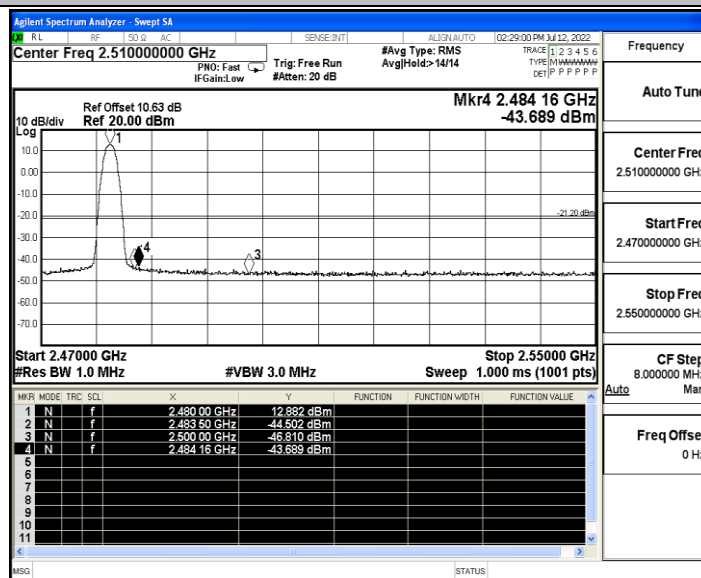


Test Graphs



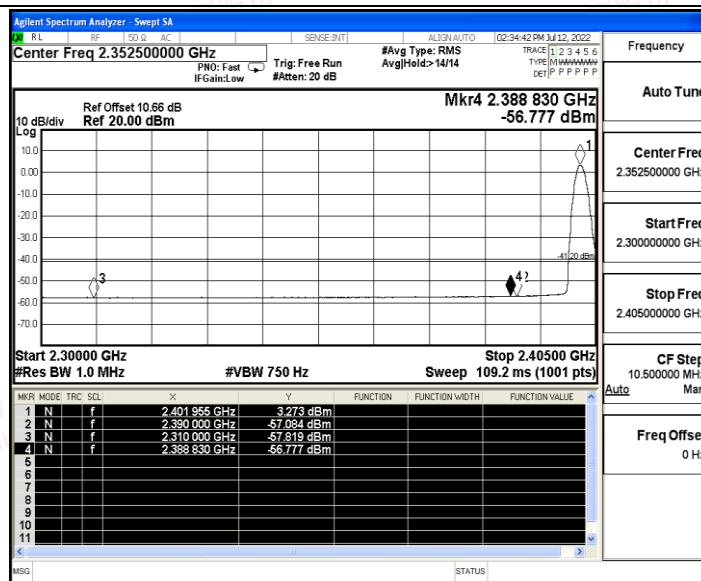


DH5_Ant_High_2480_Peak

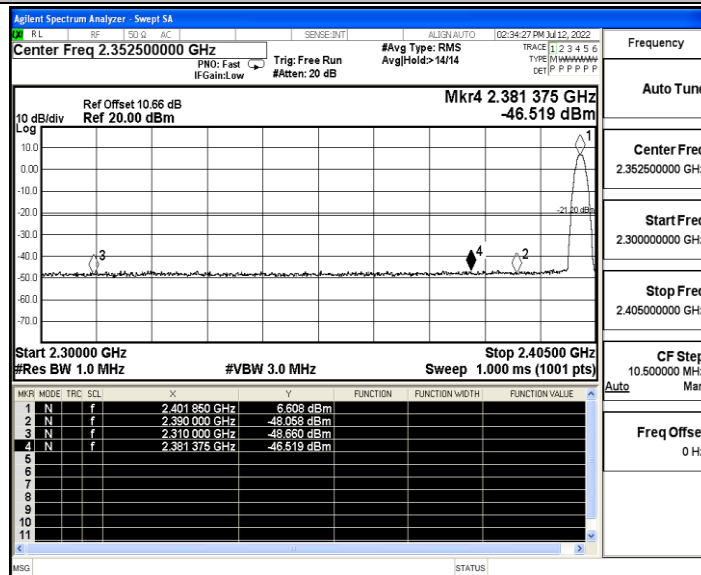


2DH5_Ant_Low_2402_AV



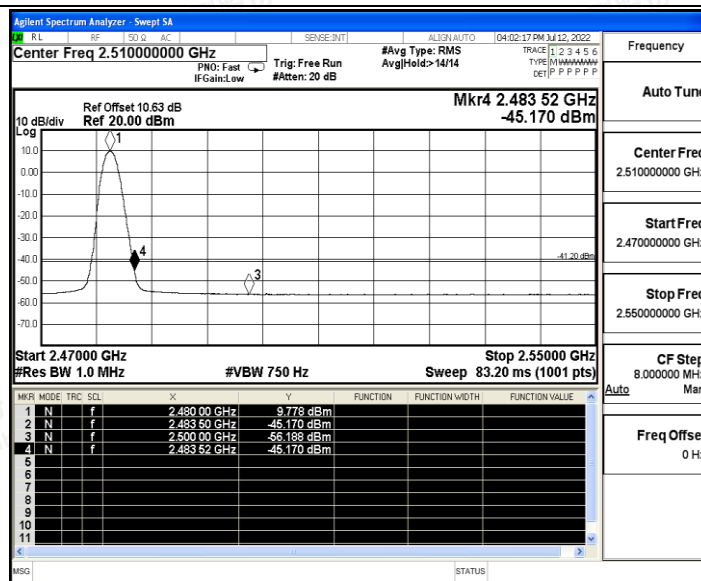


2DH5_Ant_Low_2402_Peak

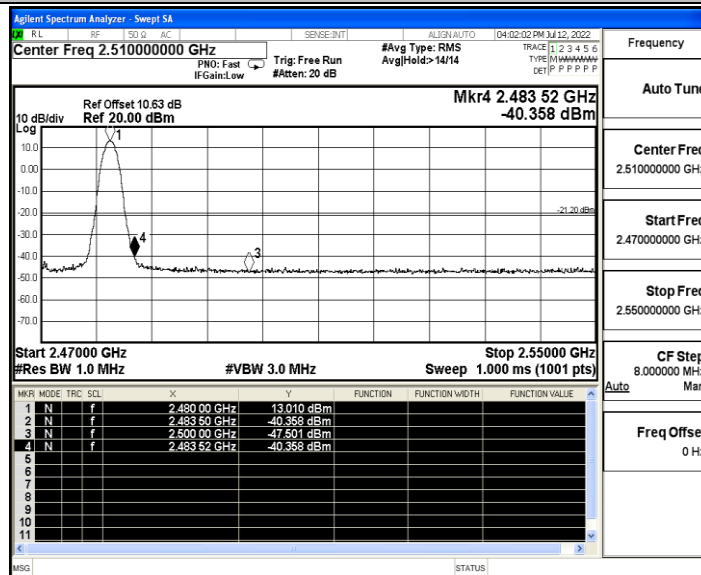


2DH5_Ant_High_2480_AV



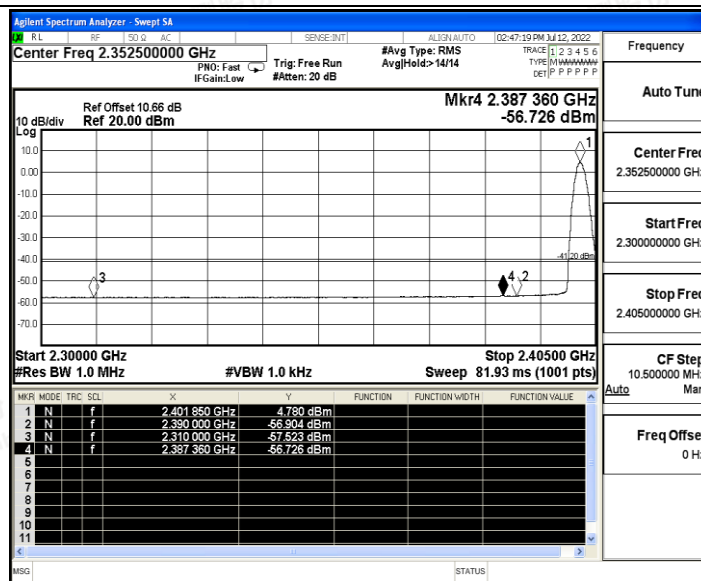


2DH5_Ant_High_2480_Peak

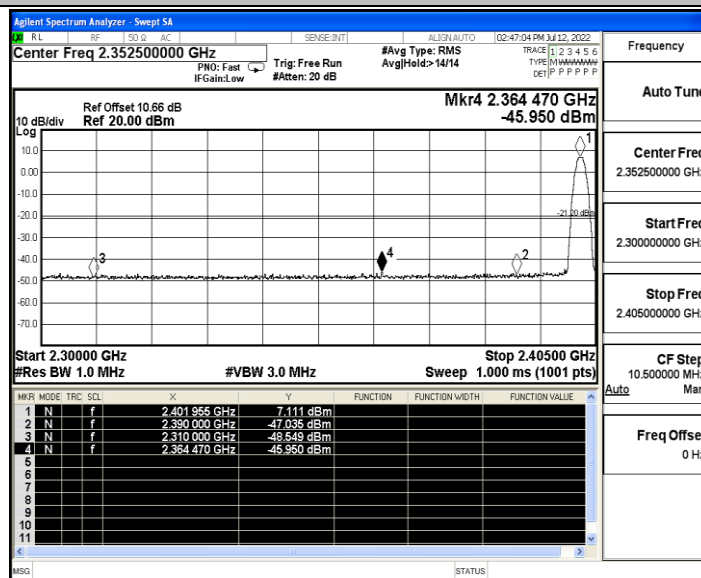


3DH5_Ant_Low_2402_AV





3DH5_Ant_Low_2402_Peak



3DH5_Ant_High_2480_AV



