



## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: HOME THEATER PROJECTOR

Test Model: B-110

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jeson Zhou
Supervised by:	Nick Peng





## A.1 20dB Emission Bandwidth

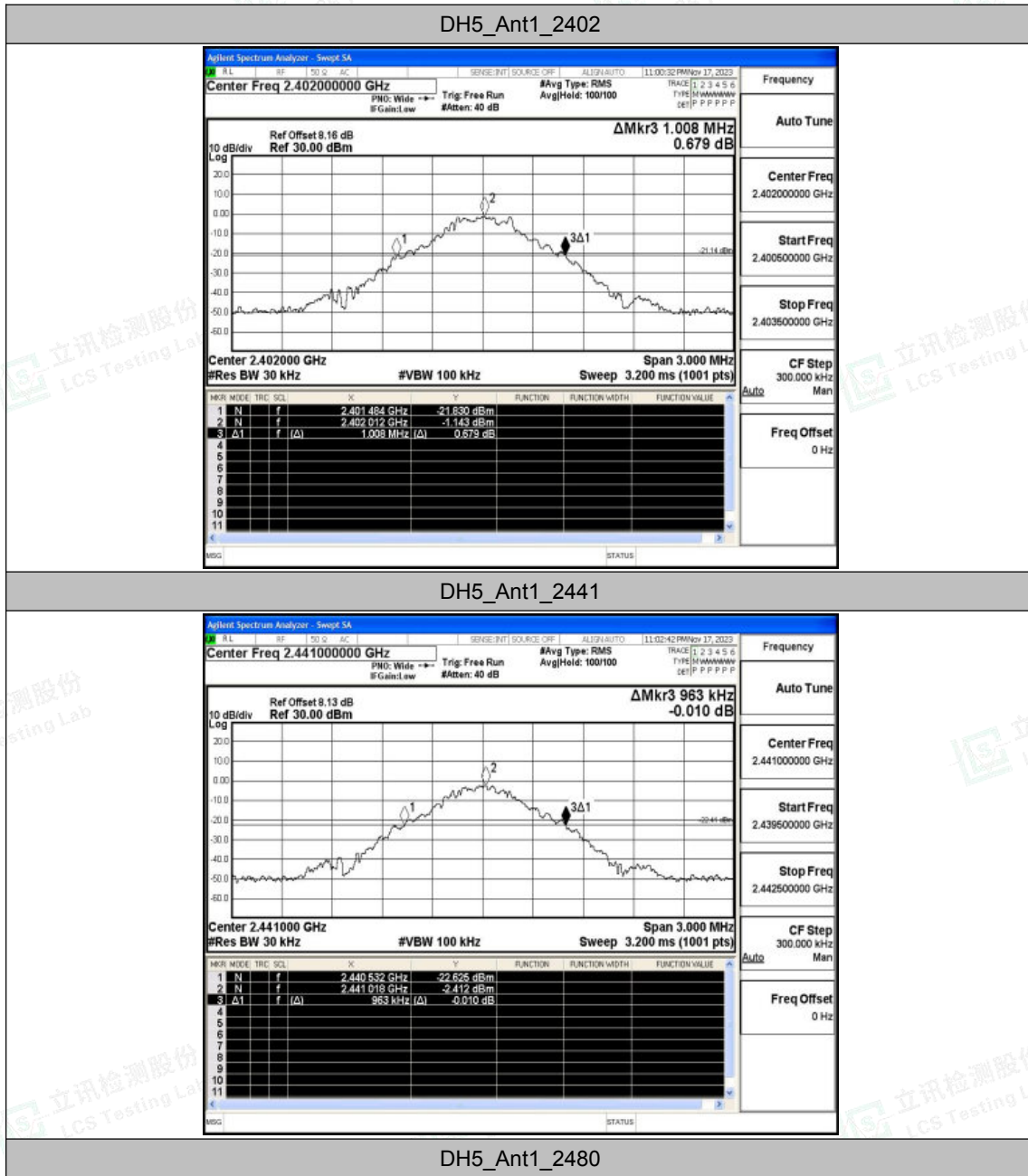
### Test Result

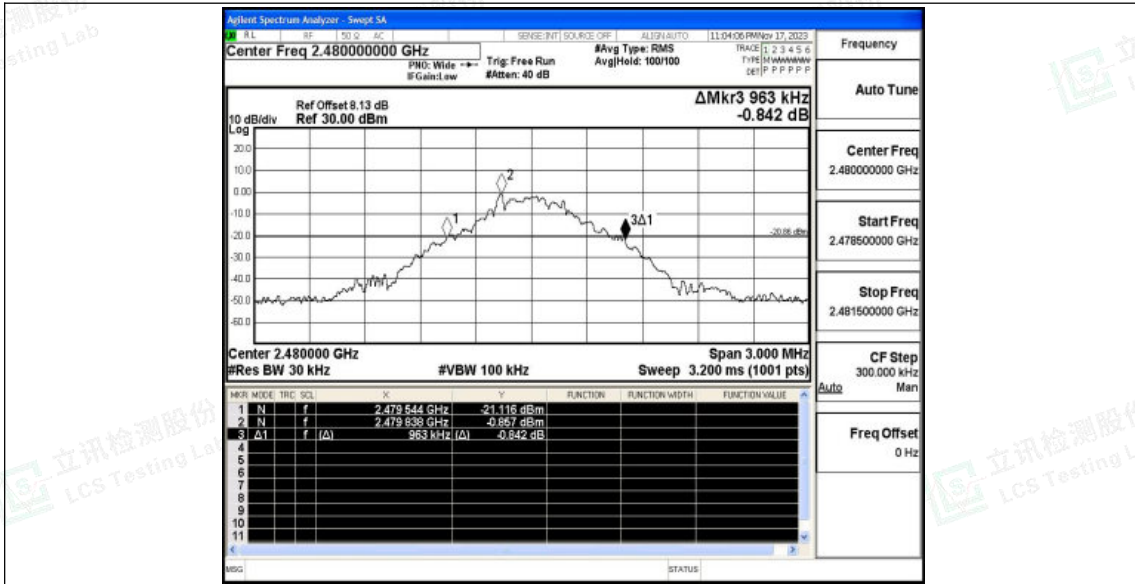
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.008	2401.484	2402.492	---
		2441	0.963	2440.532	2441.495	---
		2480	0.963	2479.544	2480.507	---
2DH5	Ant1	2402	1.356	2401.325	2402.681	---
		2441	1.317	2440.346	2441.663	---
		2480	1.311	2479.346	2480.657	---
3DH5	Ant1	2402	1.305	2401.346	2402.651	---
		2441	1.314	2440.343	2441.657	---
		2480	1.311	2479.346	2480.657	---



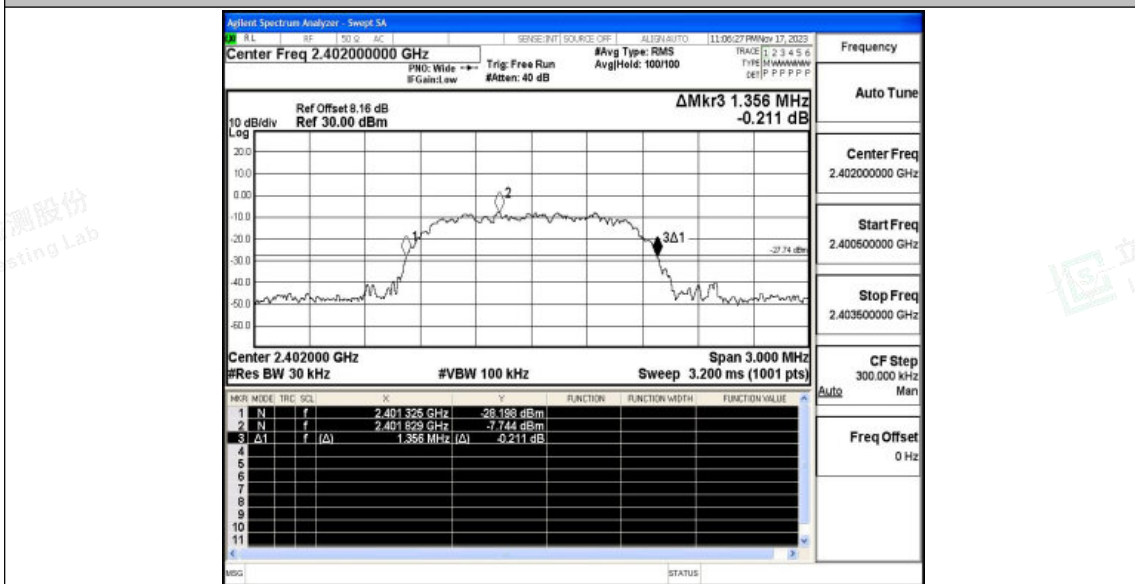


### Test Graphs



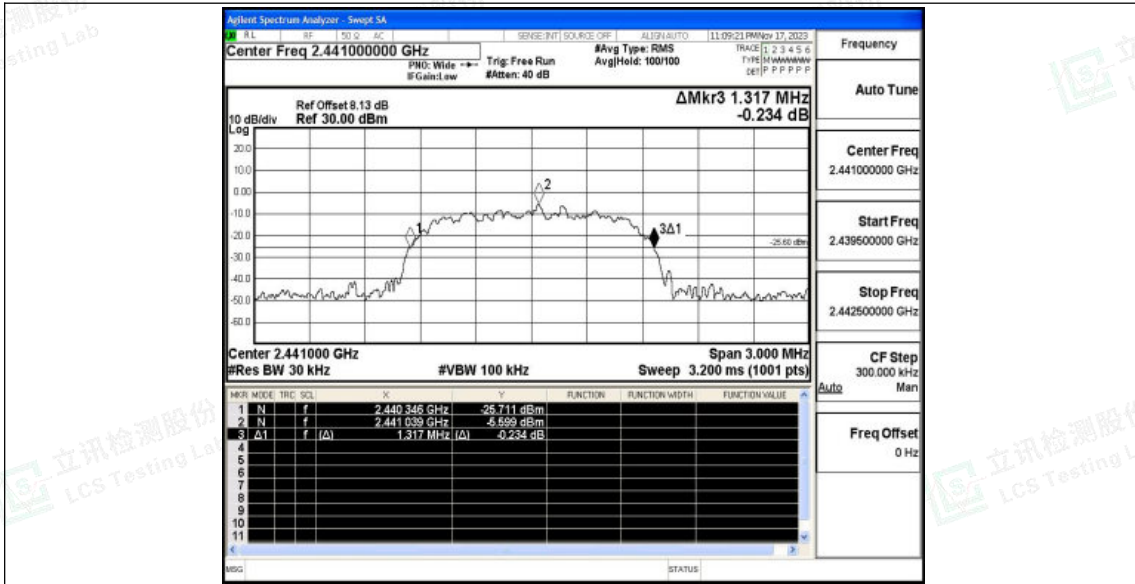


2DH5\_Ant1\_2402

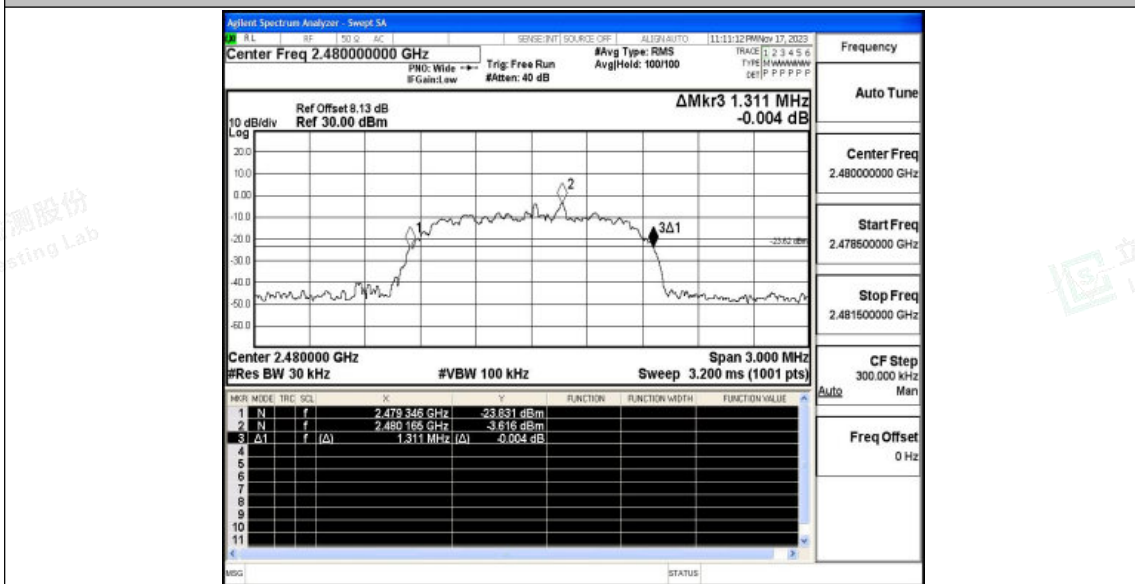


2DH5\_Ant1\_2441



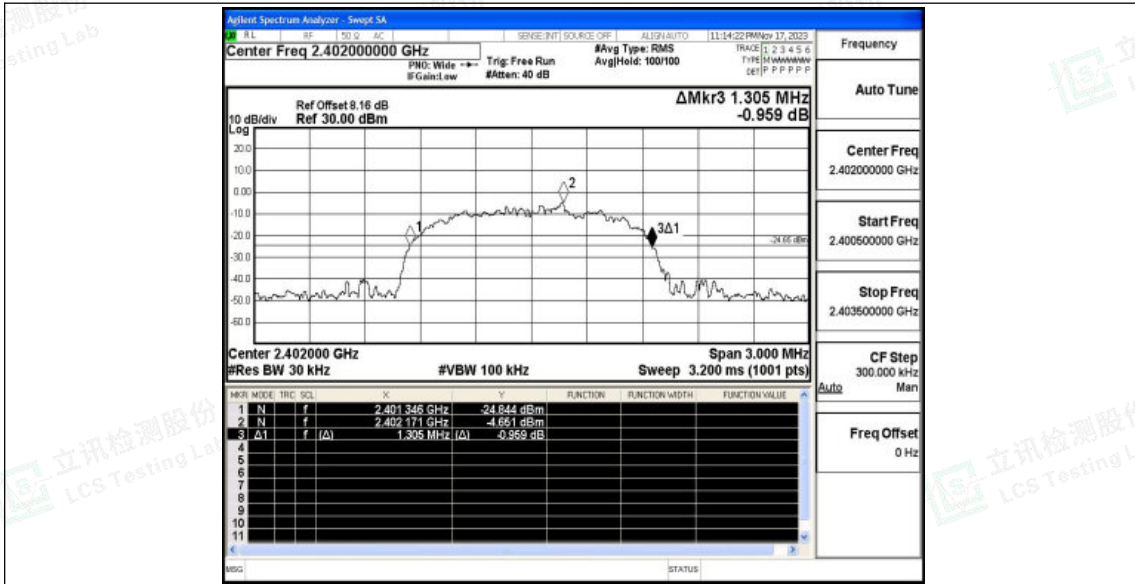


2DH5\_Ant1\_2480

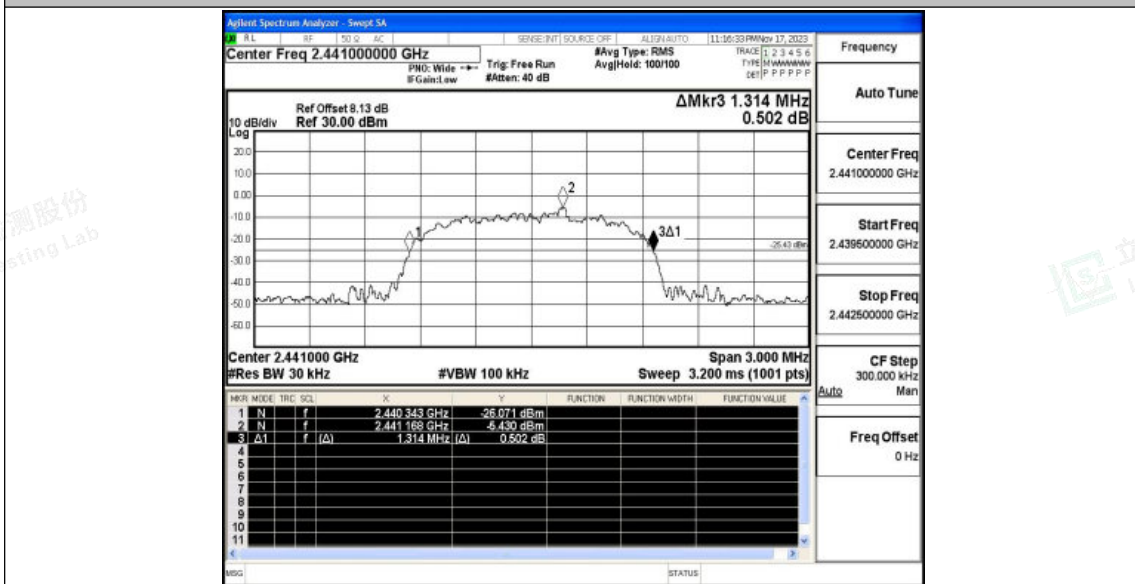


3DH5\_Ant1\_2402





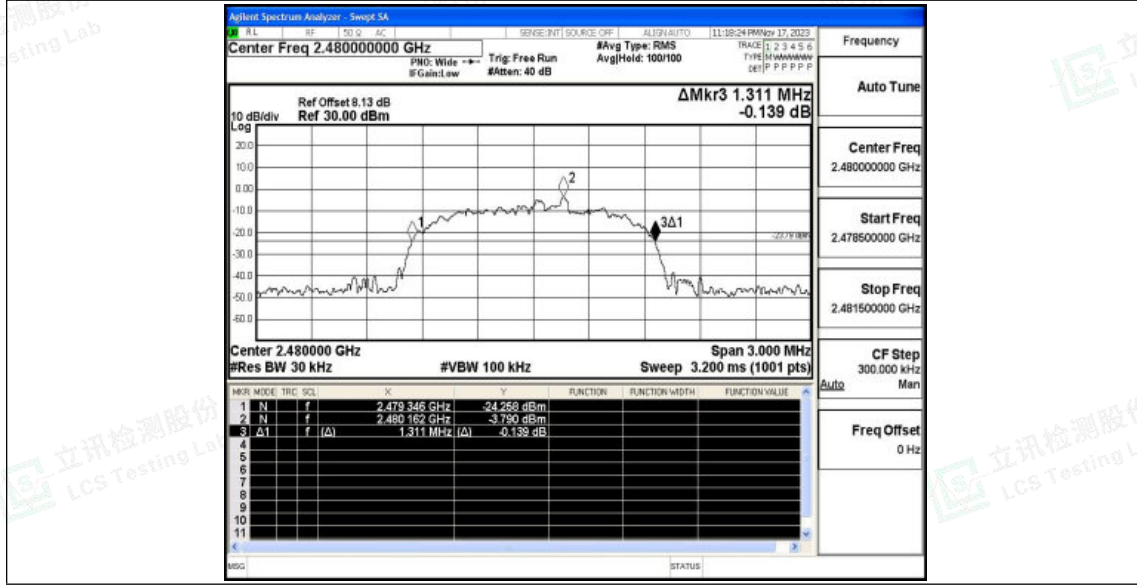
3DH5\_Ant1\_2441



3DH5\_Ant1\_2480









## A.2 Maximum Peak Conducted Output Power

### Test Result

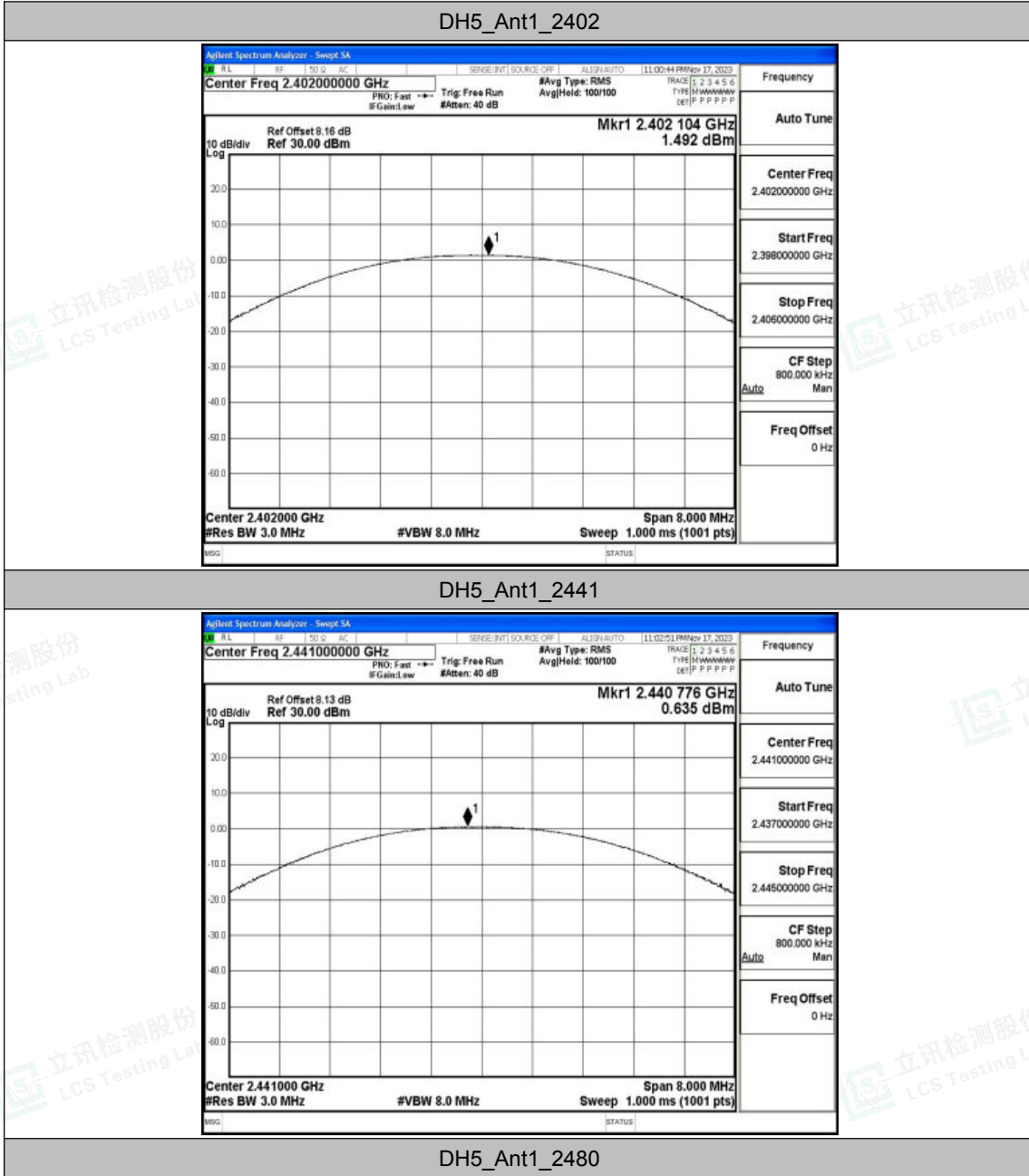
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.49	≤21	PASS
		2441	0.64	≤21	PASS
		2480	0.7	≤21	PASS
2DH5	Ant1	2402	1.49	≤21	PASS
		2441	0.61	≤21	PASS
		2480	1.25	≤21	PASS
3DH5	Ant1	2402	1.72	≤21	PASS
		2441	0.92	≤21	PASS
		2480	1.56	≤21	PASS





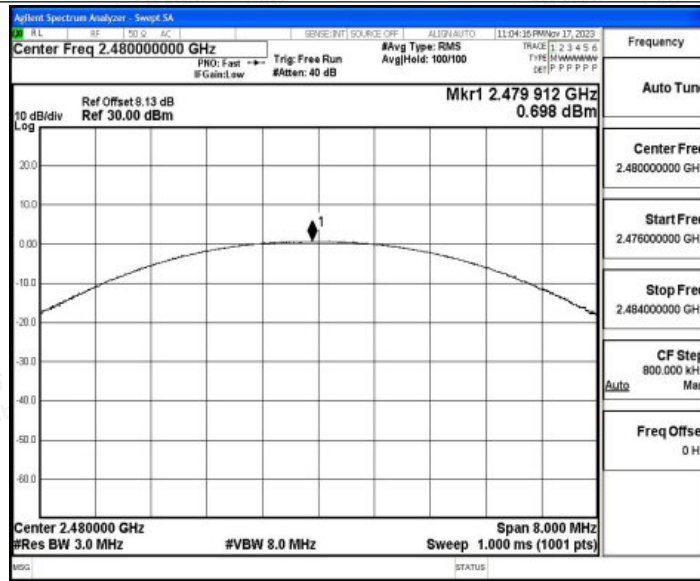


### Test Graphs

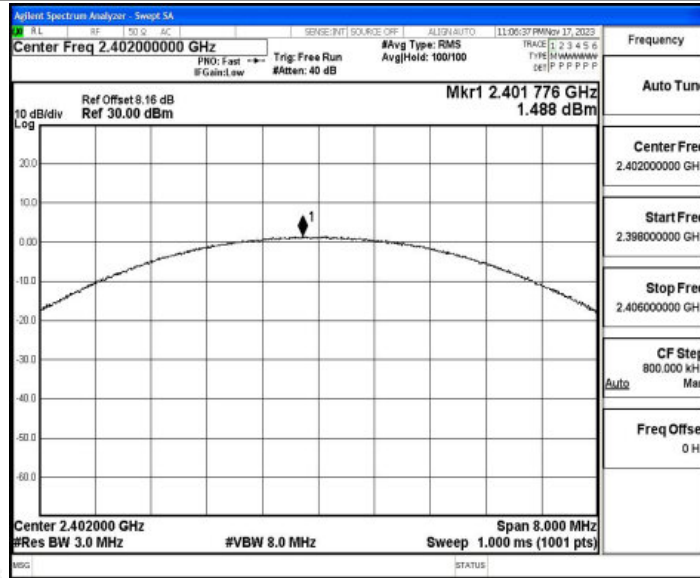




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2DH5\_Ant1\_2402

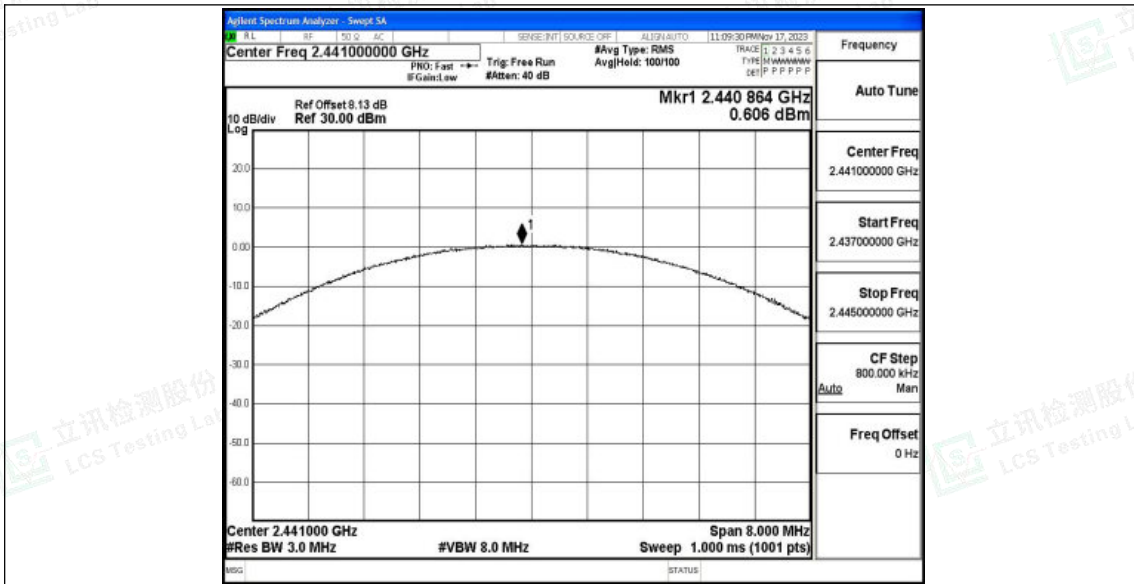


2DH5\_Ant1\_2441

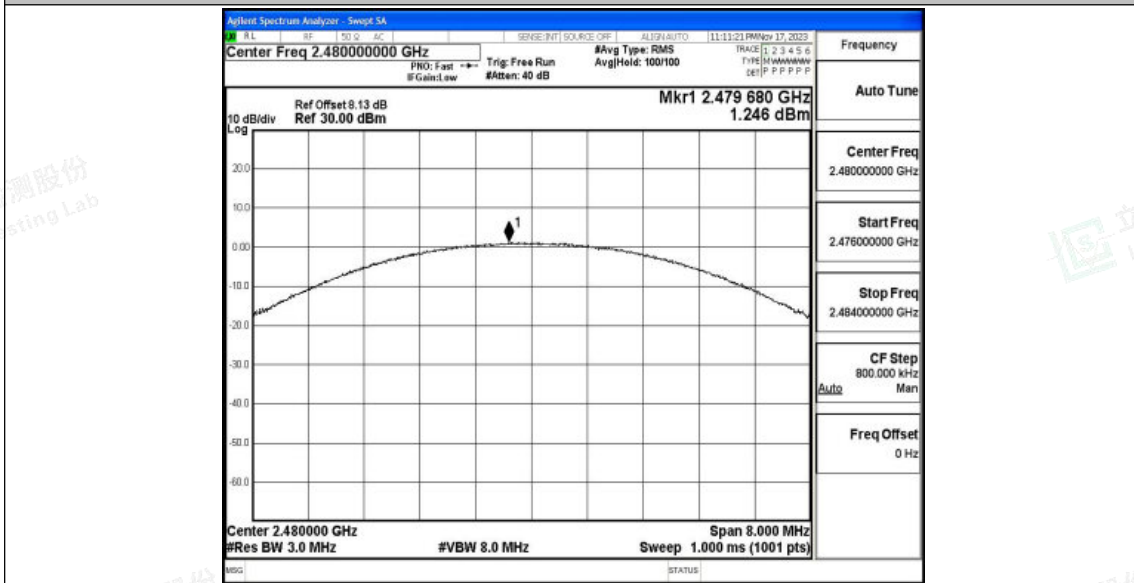




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2DH5\_Ant1\_2480

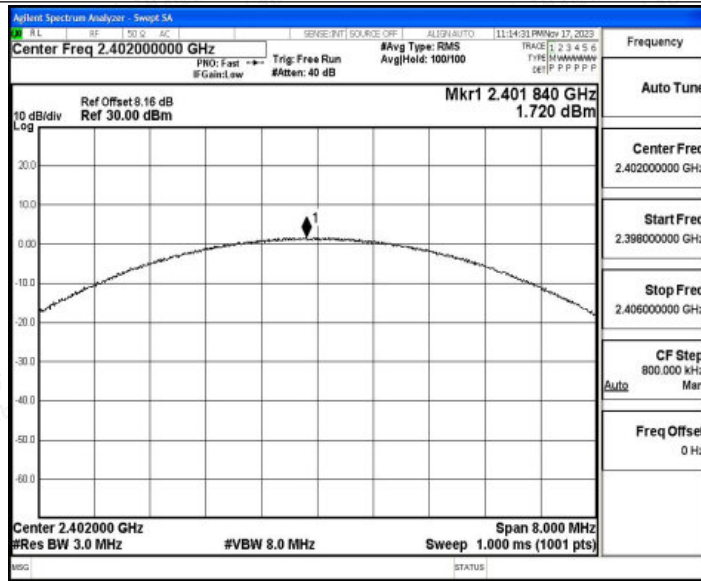


3DH5\_Ant1\_2402

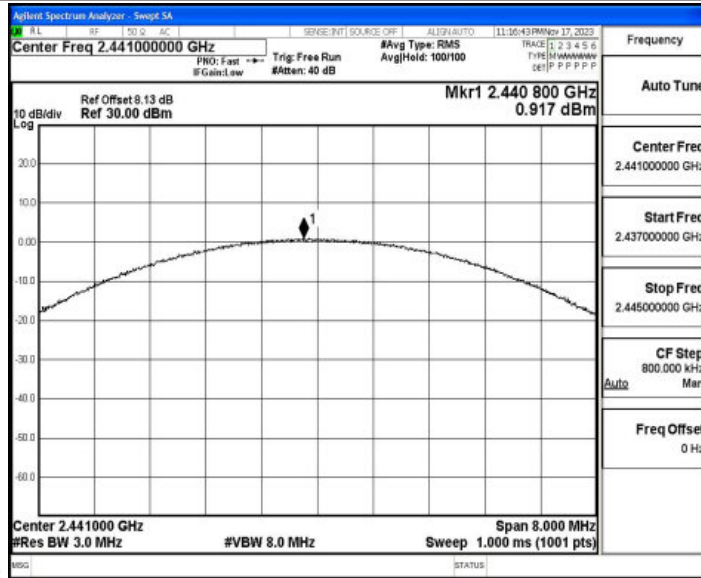




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3DH5\_Ant1\_2441

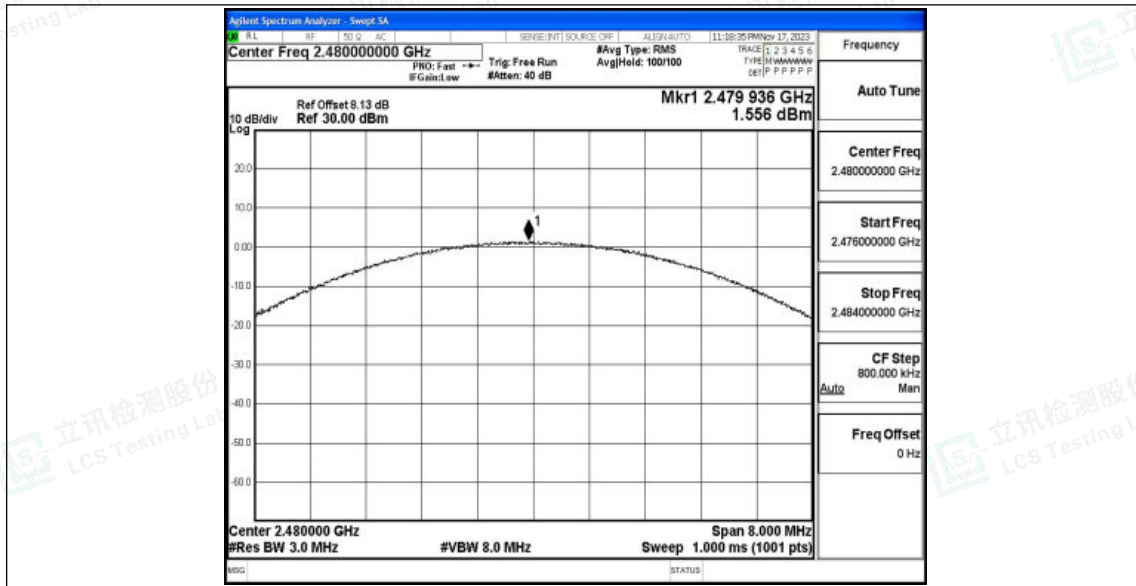


3DH5\_Ant1\_2480





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 Scan code to check authenticity



### A.3 Carrier frequency separation

#### Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.854	≥0.672	PASS
2DH5	Ant1	Hop	1.112	≥0.904	PASS
3DH5	Ant1	Hop	0.936	≥0.876	PASS

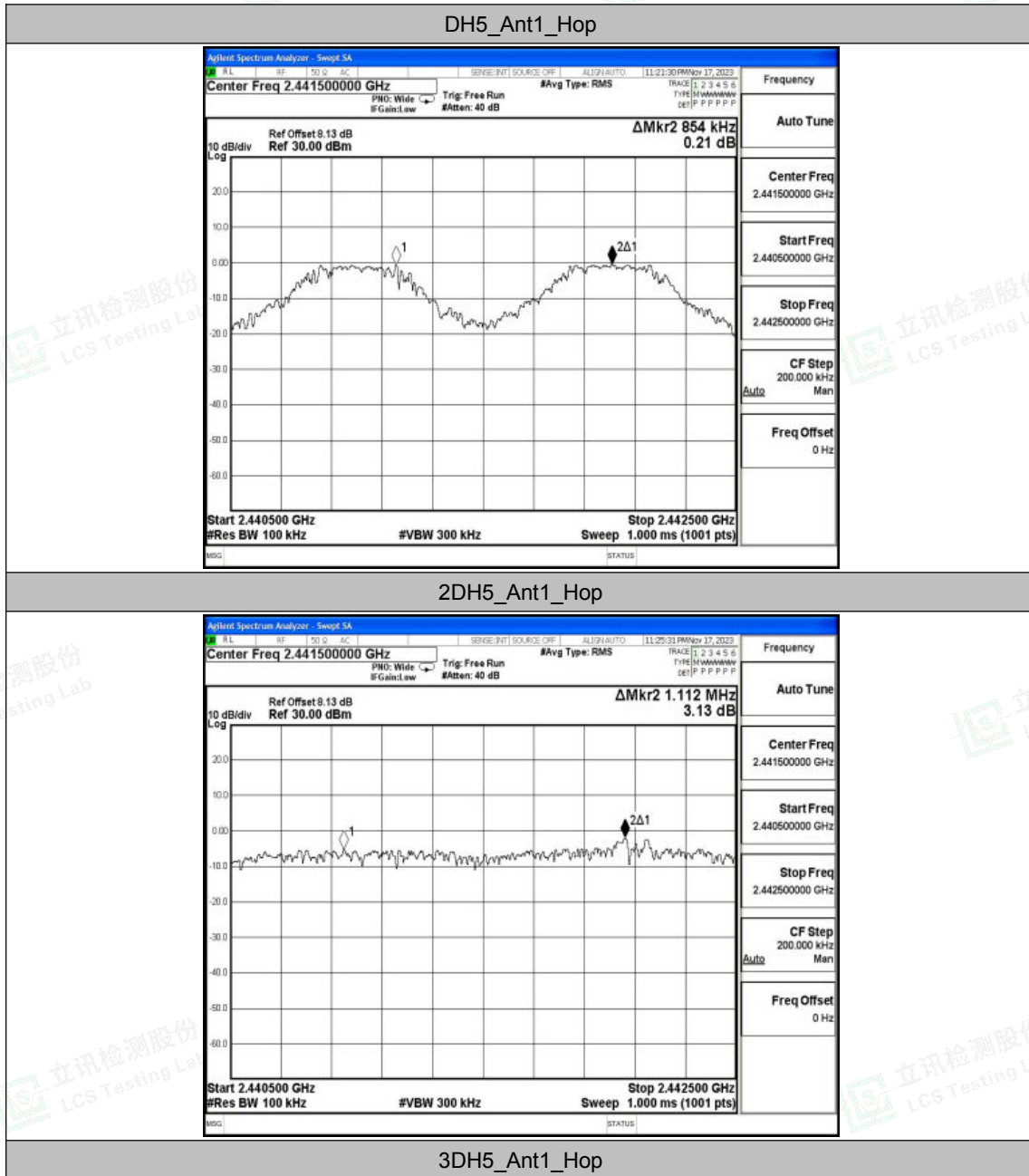






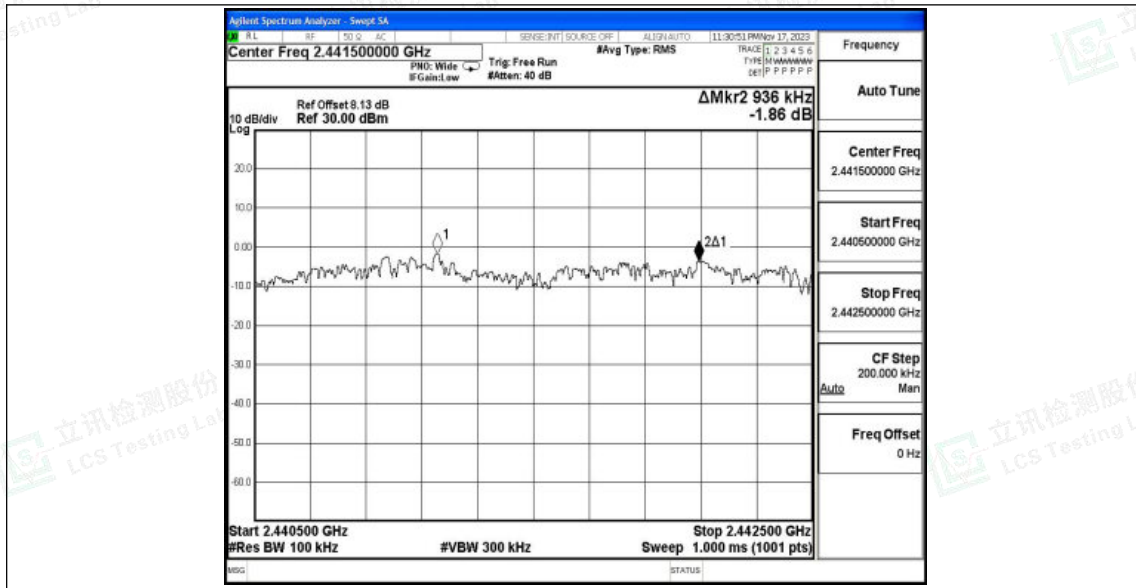
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### Test Graphs





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### A.4 Time of occupancy

#### Test Result

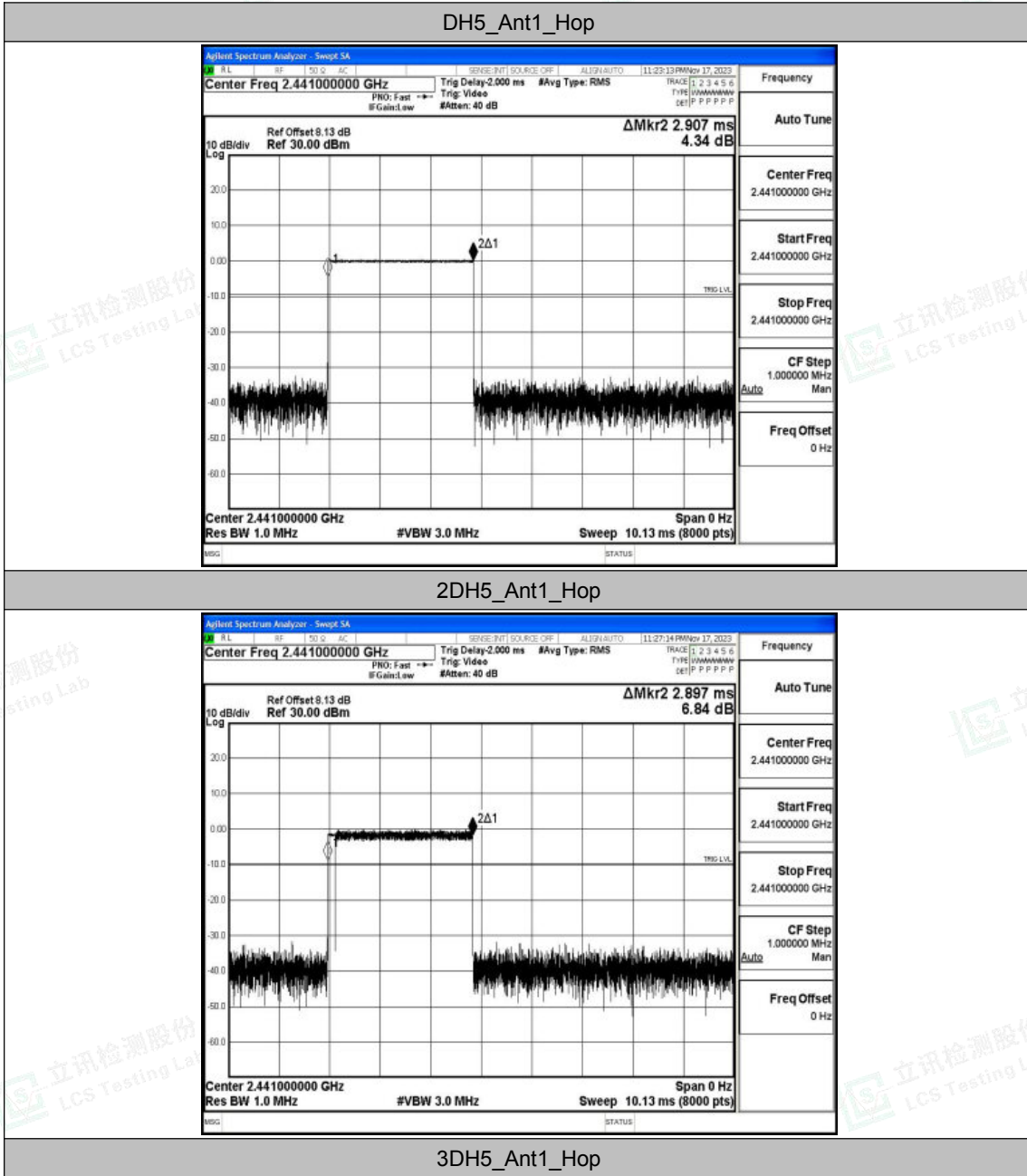
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.907	106.67	0.31	≤0.4	PASS
2DH5	Ant1	Hop	2.897	106.67	0.309	≤0.4	PASS
3DH5	Ant1	Hop	2.896	106.67	0.309	≤0.4	PASS





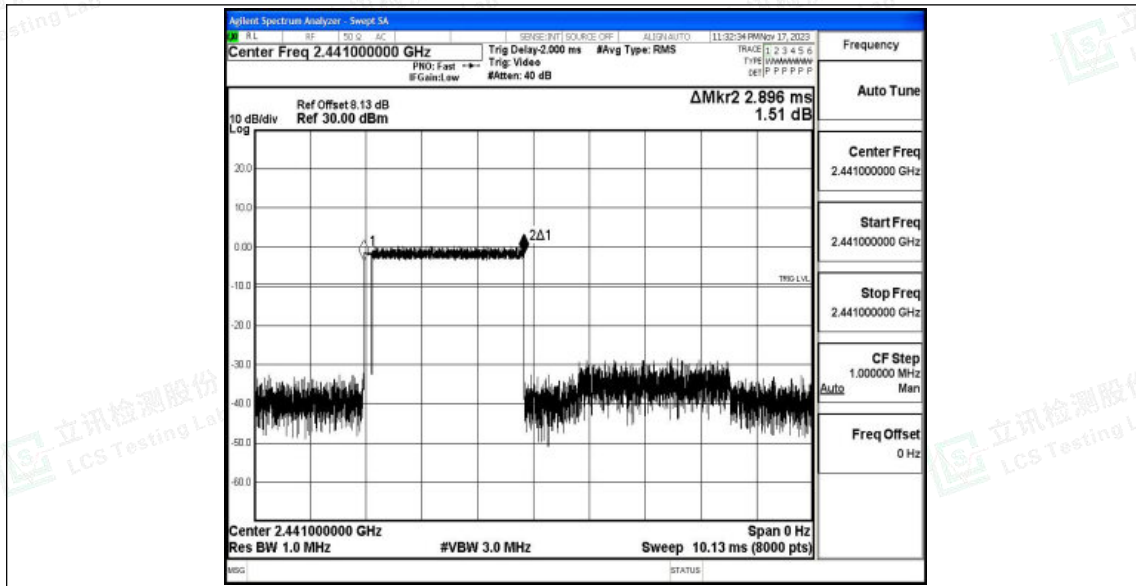
LC SA 2403040EA

### Test Graphs





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## 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







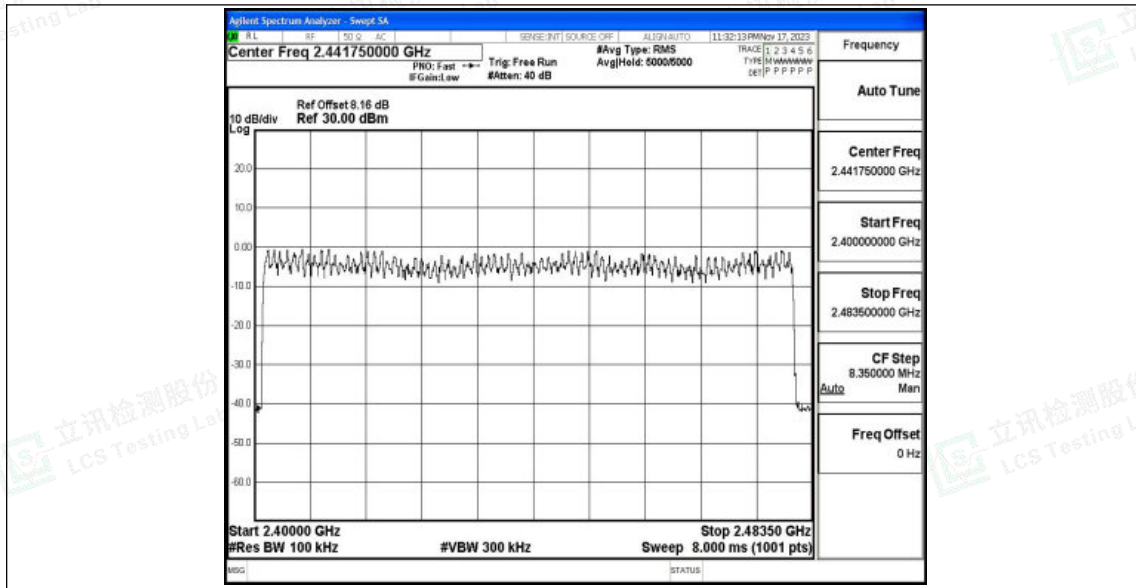
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### Test Graphs





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## A.6 Band edge measurements

### Test Result

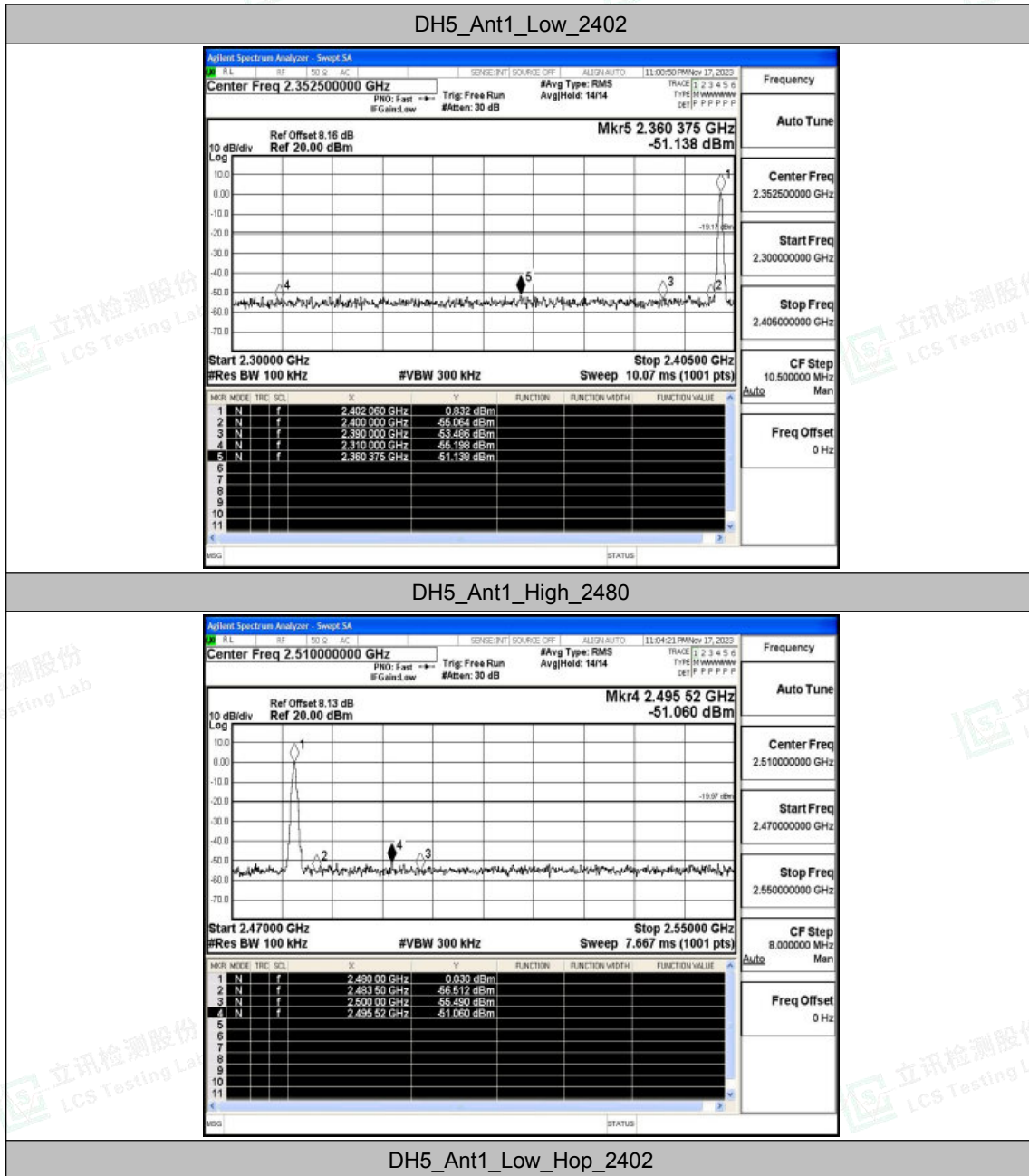
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.83	-51.14	≤-19.17	PASS
		High	2480	0.03	-51.06	≤-19.97	PASS
		Low	Hop_2402	0.23	-50.38	≤-19.77	PASS
		High	Hop_2480	0.08	-48.74	≤-19.92	PASS
2DH5	Ant1	Low	2402	-3.79	-50.15	≤-23.79	PASS
		High	2480	-4.77	-50.95	≤-24.77	PASS
		Low	Hop_2402	-3.61	-50.63	≤-23.61	PASS
		High	Hop_2480	-1.63	-49.62	≤-21.63	PASS
3DH5	Ant1	Low	2402	-3.14	-50.7	≤-23.14	PASS
		High	2480	-3.89	-50.96	≤-23.89	PASS
		Low	Hop_2402	-2.72	-49.95	≤-22.72	PASS
		High	Hop_2480	-1.05	-49.5	≤-21.05	PASS





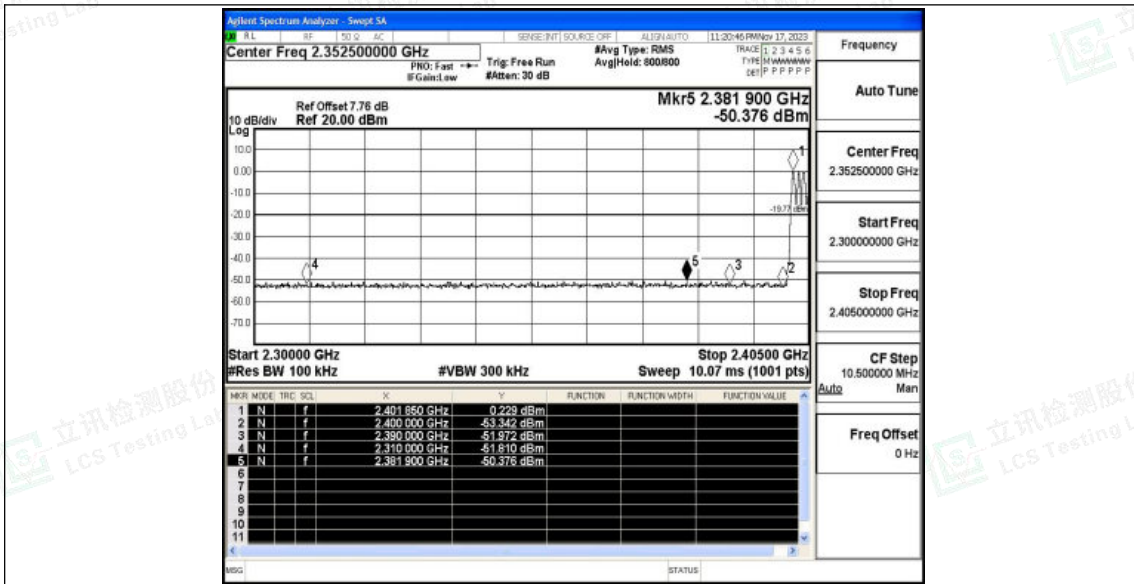
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### Test Graphs

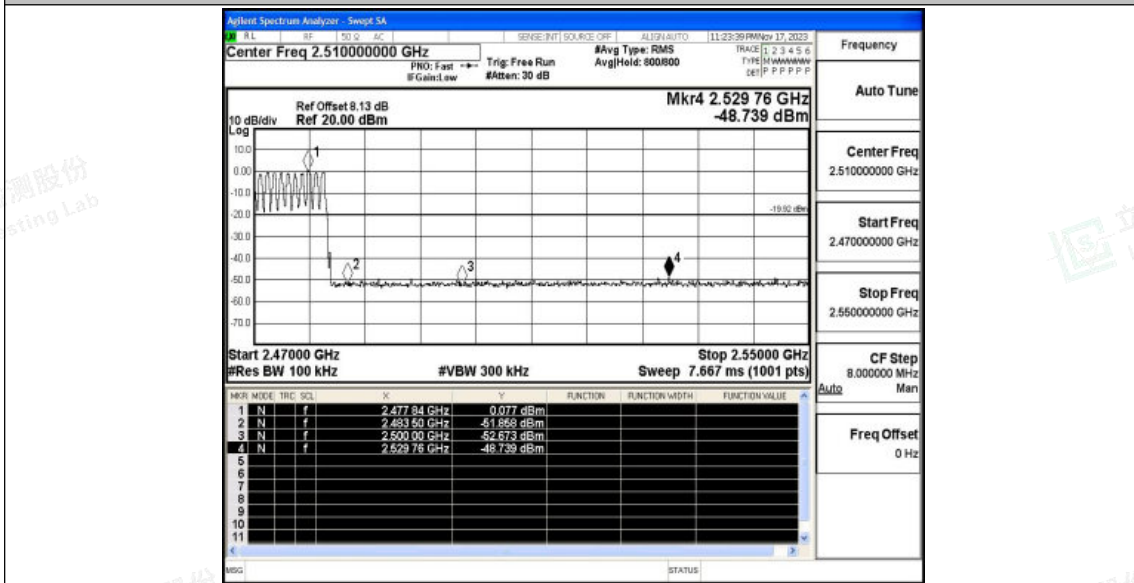




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DH5\_Ant1\_High\_Hop\_2480



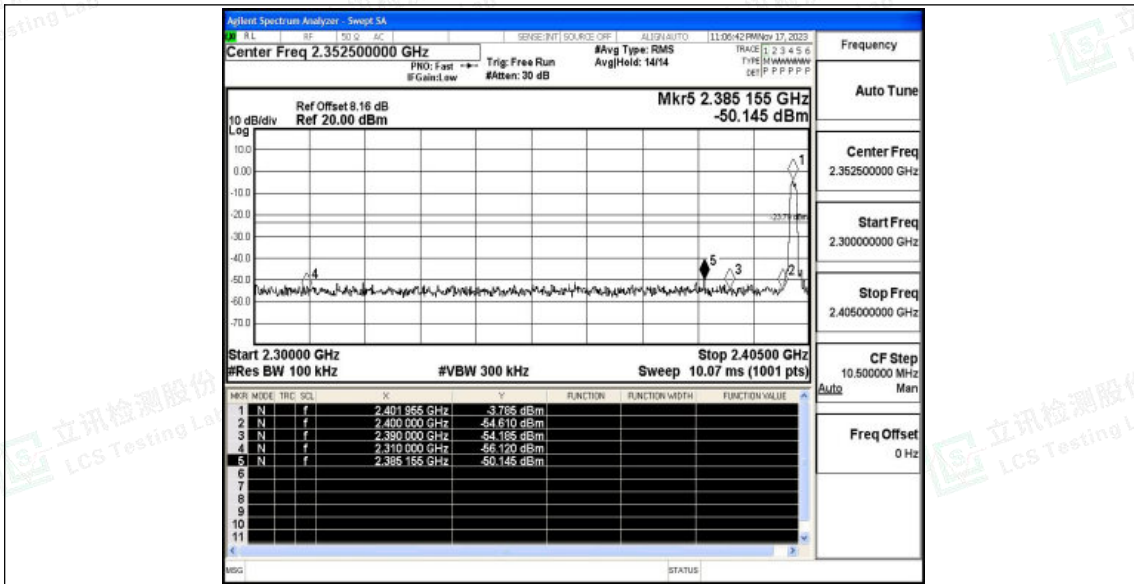
2DH5\_Ant1\_Low\_2402



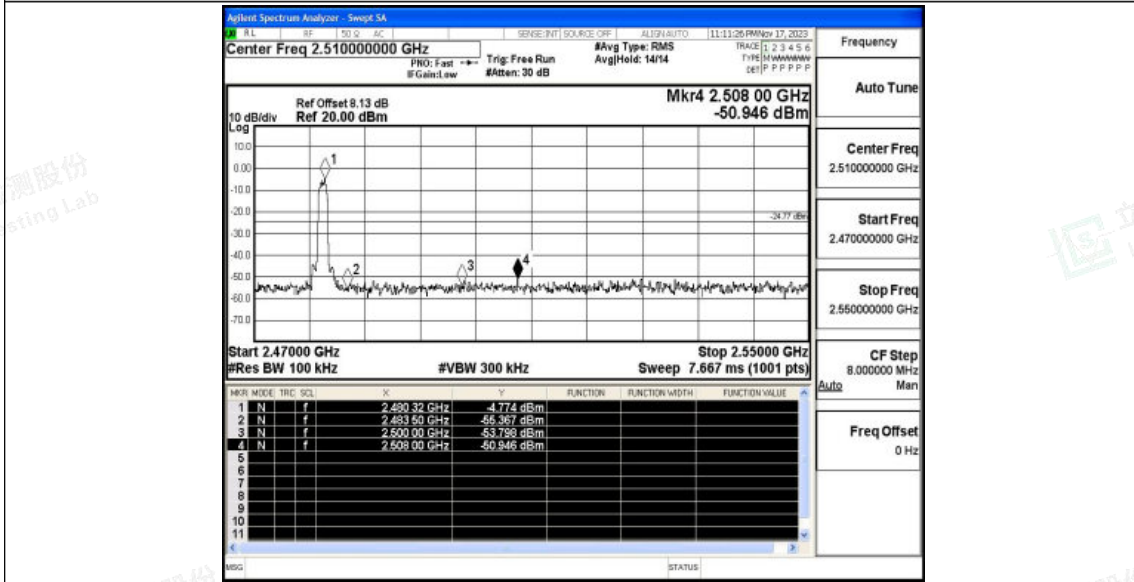




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2DH5\_Ant1\_High\_2480



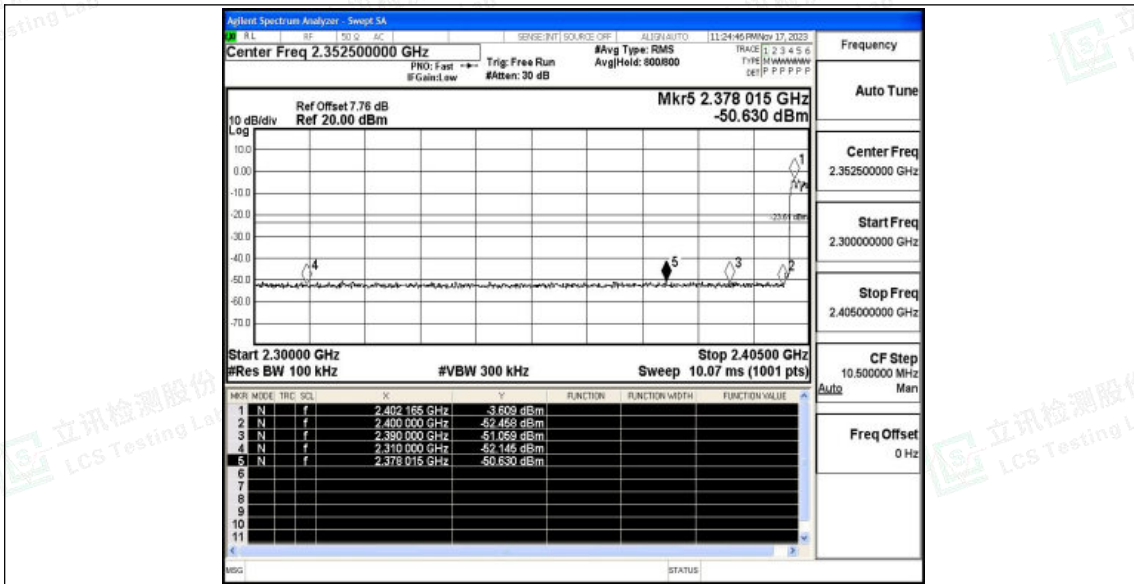
2DH5\_Ant1\_Low\_Hop\_2402



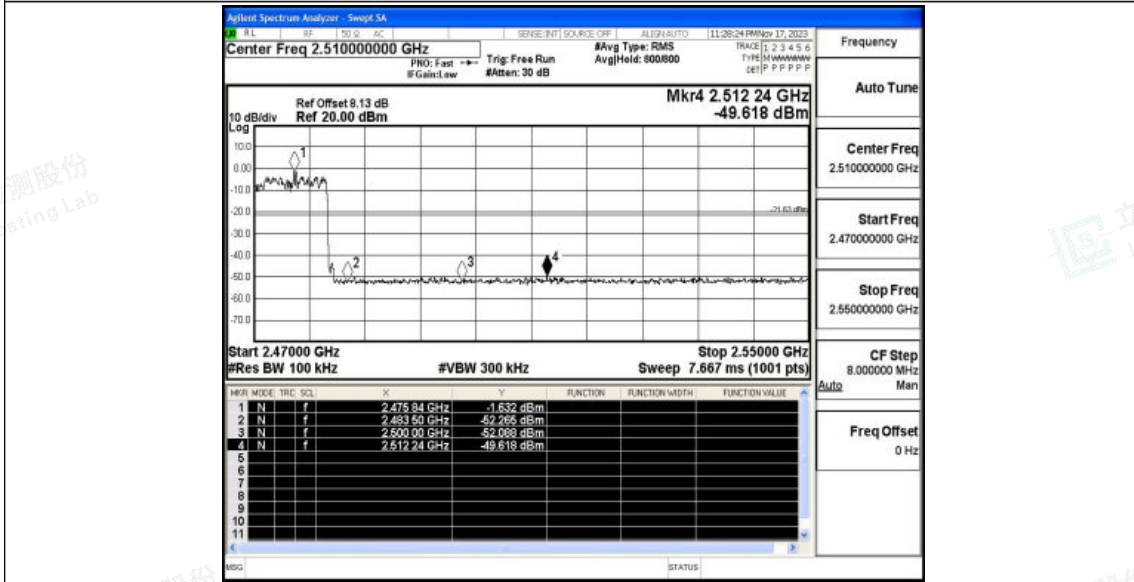




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2DH5\_Ant1\_High\_Hop\_2480

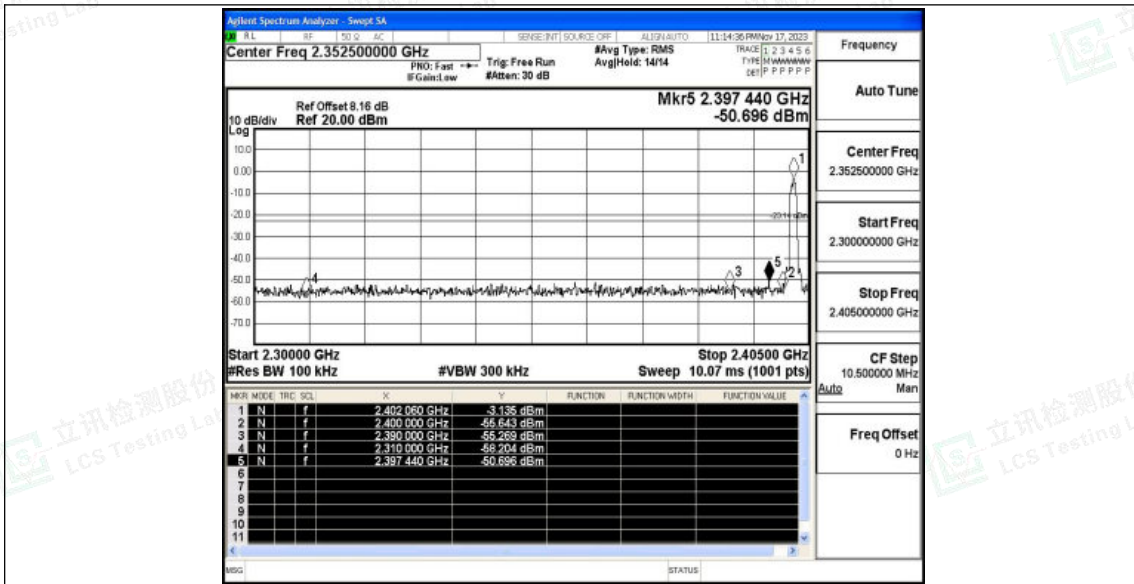


3DH5\_Ant1\_Low\_2402

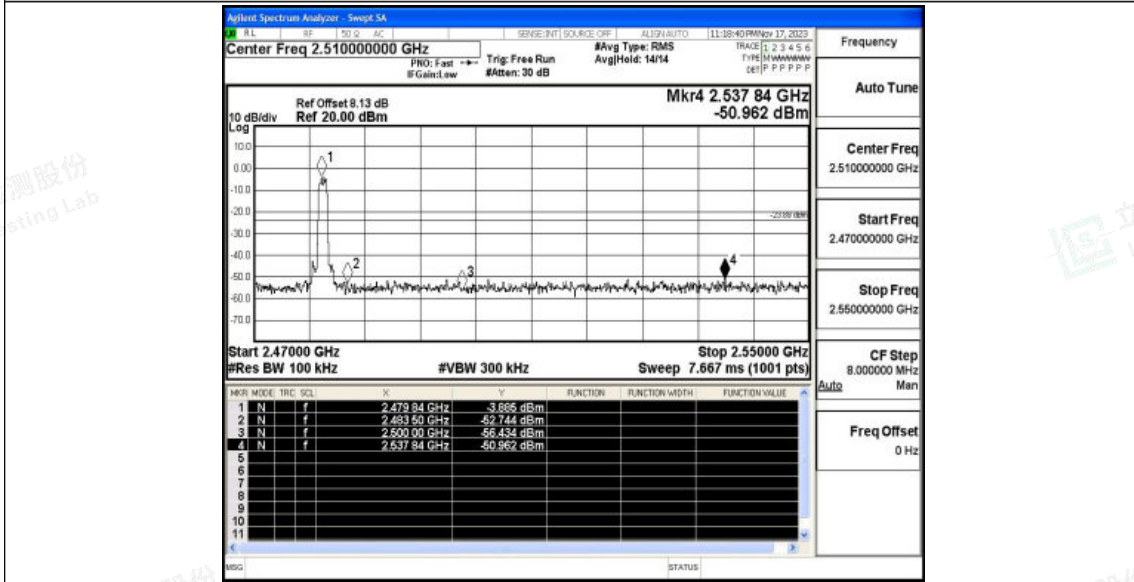




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3DH5\_Ant1\_High\_2480

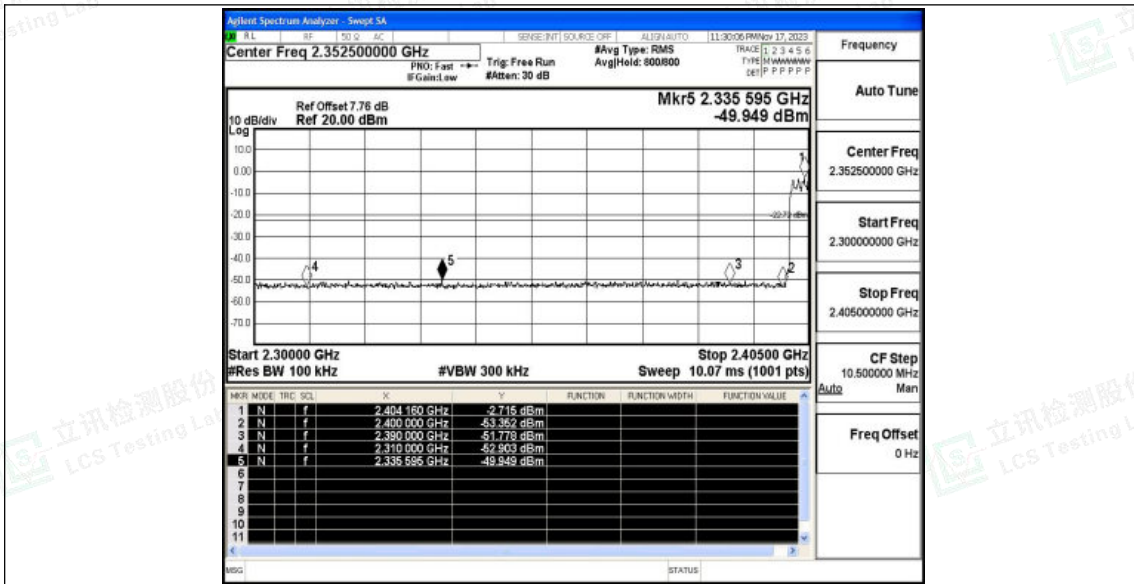


3DH5\_Ant1\_Low\_Hop\_2402

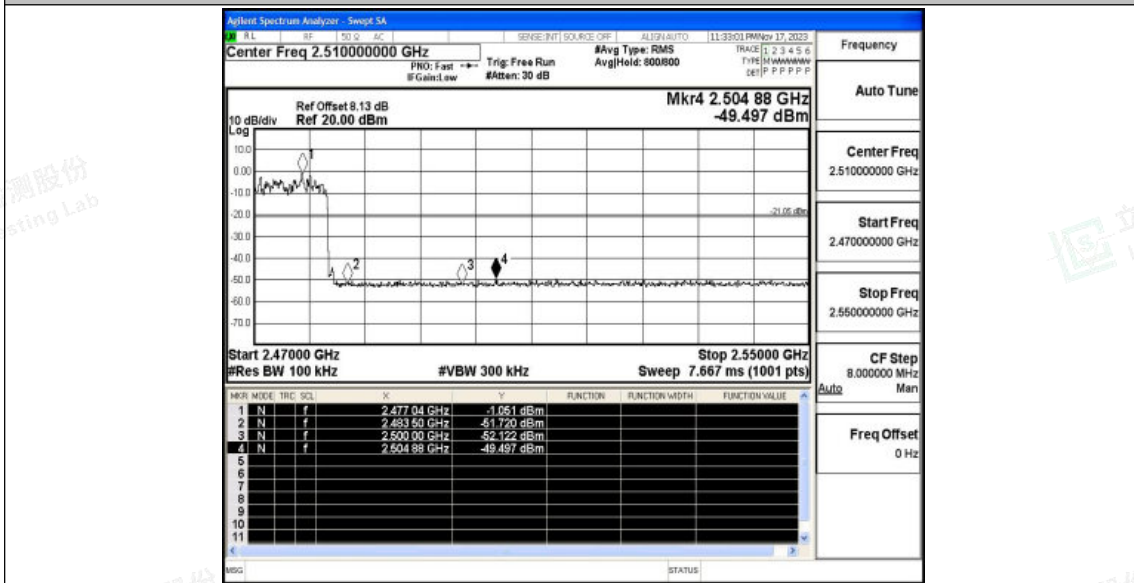




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3DH5\_Ant1\_High\_Hop\_2480





## A.7 Conducted Spurious Emission

### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-62.1	≤-19.54	PASS
			1000~26500	0.46	-49.22	≤-19.54	PASS
		2441	Reference	0.10	0.10	---	PASS
			30~1000	0.10	-61.7	≤-19.9	PASS
			1000~26500	0.10	-48.71	≤-19.9	PASS
		2480	Reference	0.16	0.16	---	PASS
			30~1000	0.16	-61.59	≤-19.84	PASS
			1000~26500	0.16	-49.08	≤-19.84	PASS
2DH5	Ant1	2402	Reference	-1.42	-1.42	---	PASS
			30~1000	-1.42	-62.06	≤-21.42	PASS
			1000~26500	-1.42	-49.19	≤-21.42	PASS
		2441	Reference	-1.74	-1.74	---	PASS
			30~1000	-1.74	-60.13	≤-21.74	PASS
			1000~26500	-1.74	-48.5	≤-21.74	PASS
		2480	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-61.74	≤-21.09	PASS
			1000~26500	-1.09	-49	≤-21.09	PASS
3DH5	Ant1	2402	Reference	-1.07	-1.07	---	PASS
			30~1000	-1.07	-61.21	≤-21.07	PASS
			1000~26500	-1.07	-48.57	≤-21.07	PASS
		2441	Reference	-1.77	-1.77	---	PASS
			30~1000	-1.77	-62.32	≤-21.77	PASS
			1000~26500	-1.77	-46.05	≤-21.77	PASS
		2480	Reference	-1.23	-1.23	---	PASS
			30~1000	-1.23	-61.45	≤-21.23	PASS
			1000~26500	-1.23	-48.96	≤-21.23	PASS



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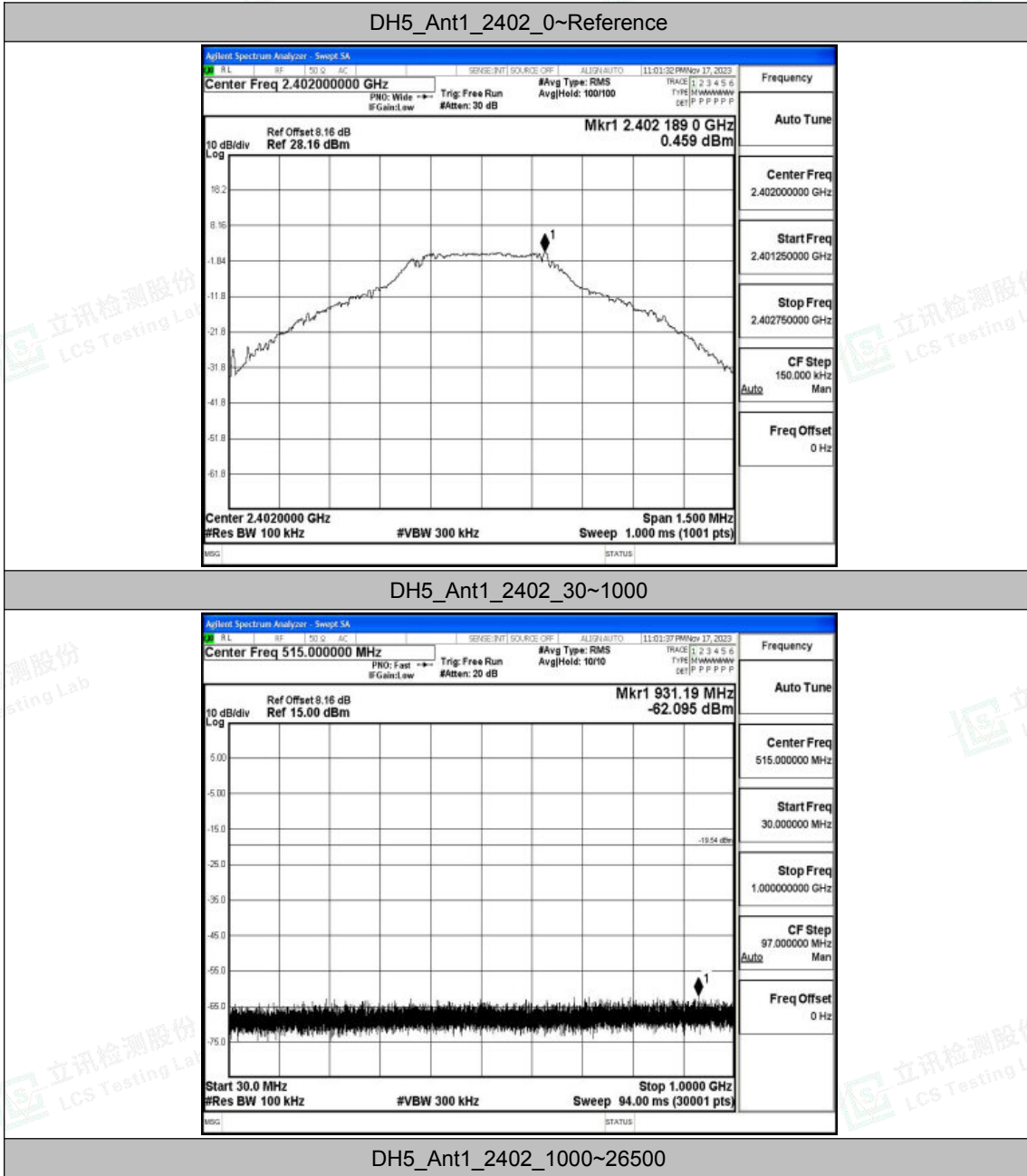
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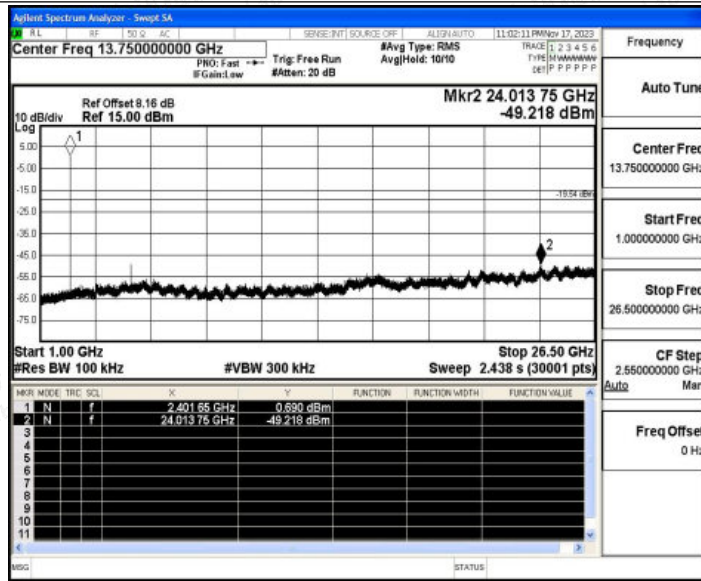
### Test Graphs



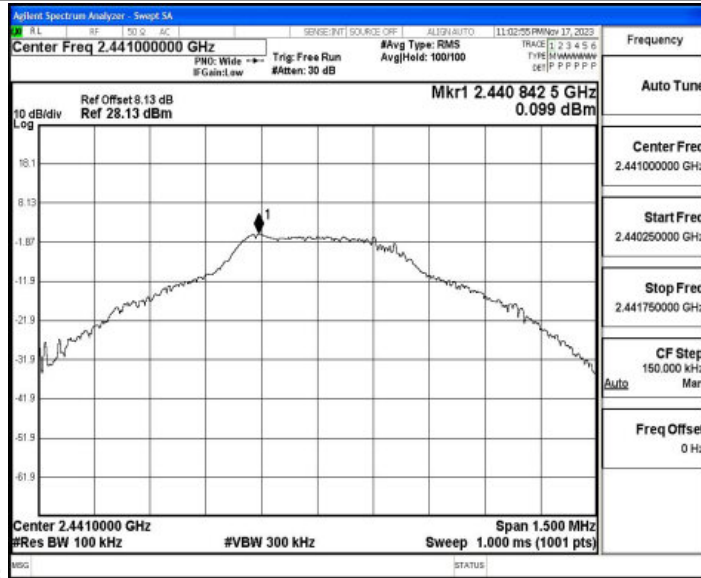




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DH5\_Ant1\_2441\_0~Reference



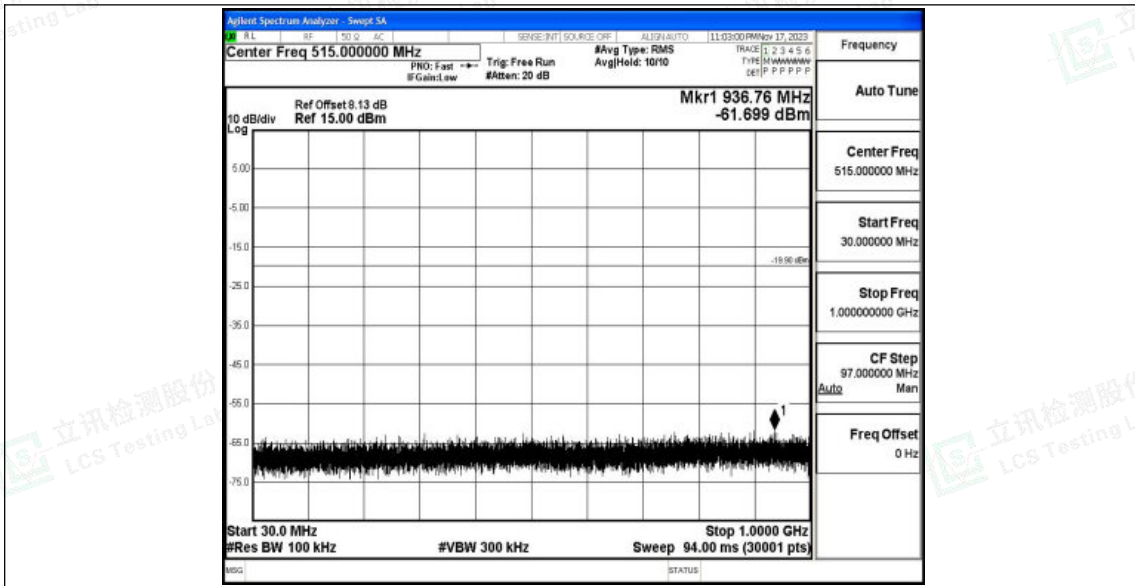
DH5\_Ant1\_2441\_30~1000



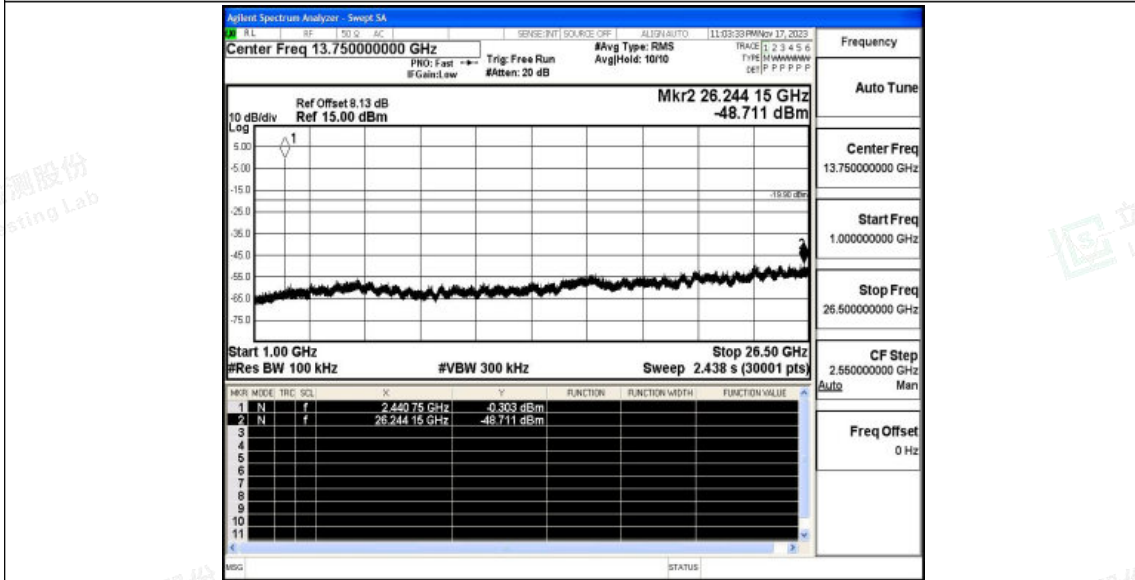




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DH5\_Ant1\_2441\_1000~26500

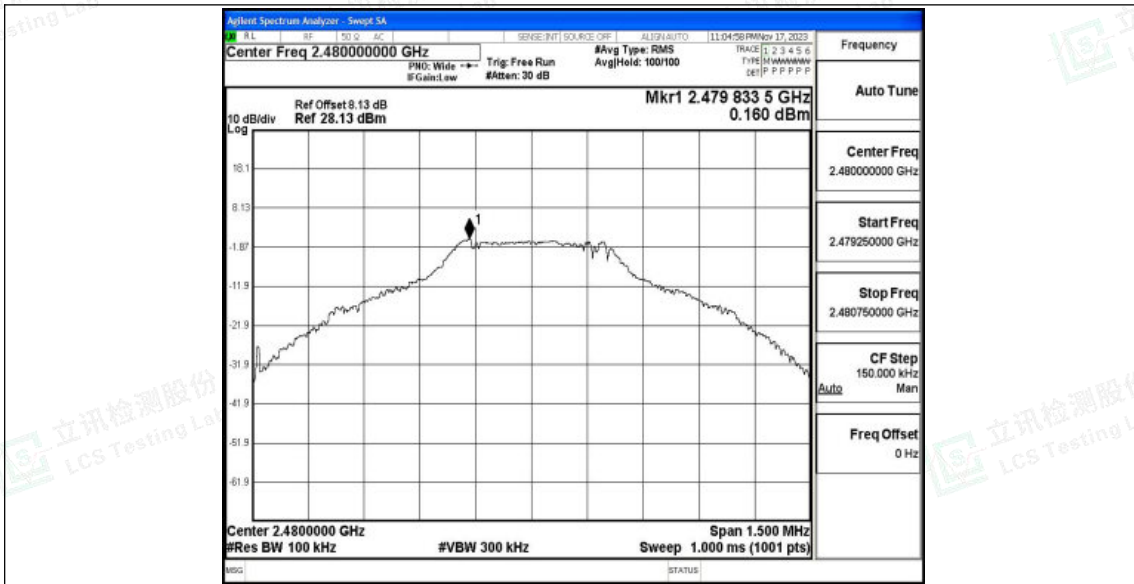


DH5\_Ant1\_2480\_0~Reference

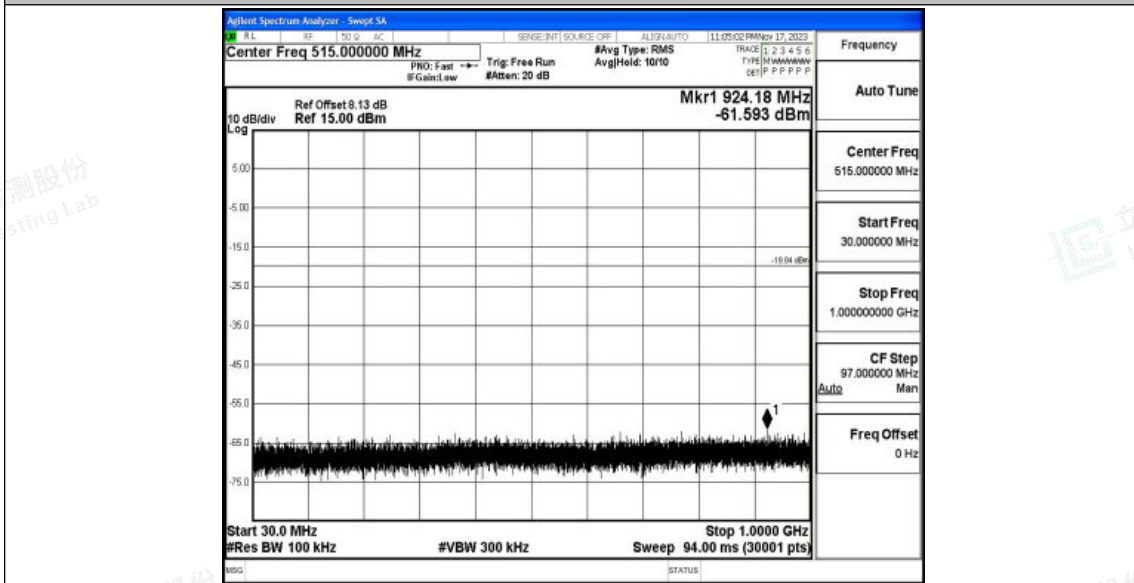




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DH5\_Ant1\_2480\_30~1000

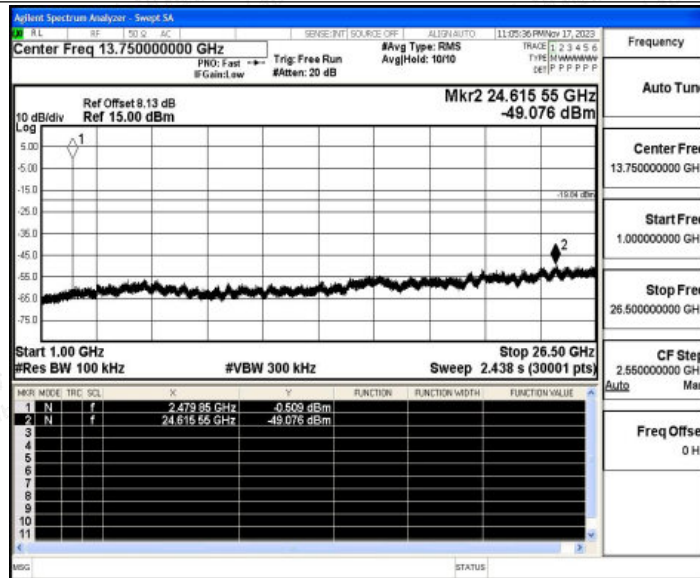


DH5\_Ant1\_2480\_1000~26500

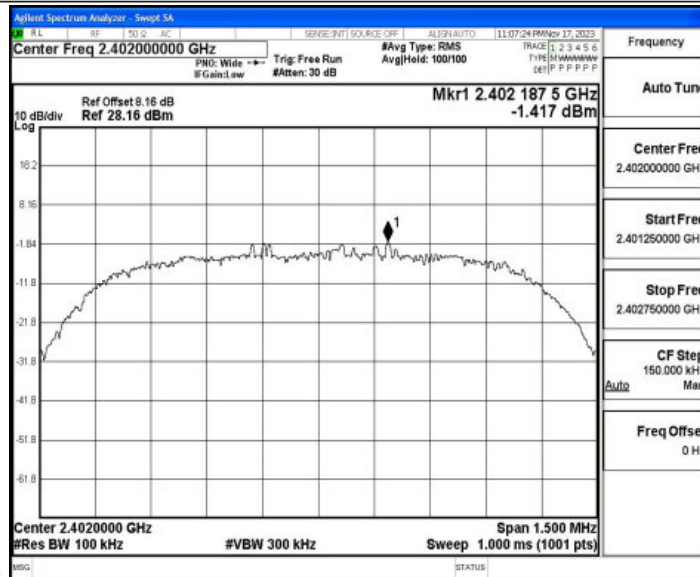




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2DH5\_Ant1\_2402\_0~Reference

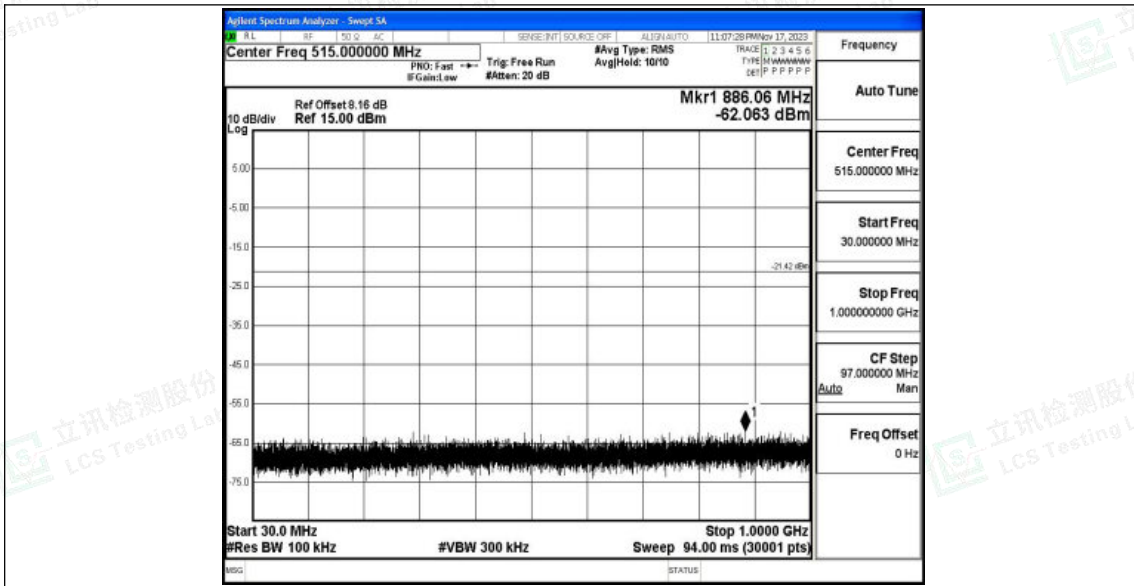


2DH5\_Ant1\_2402\_30~1000

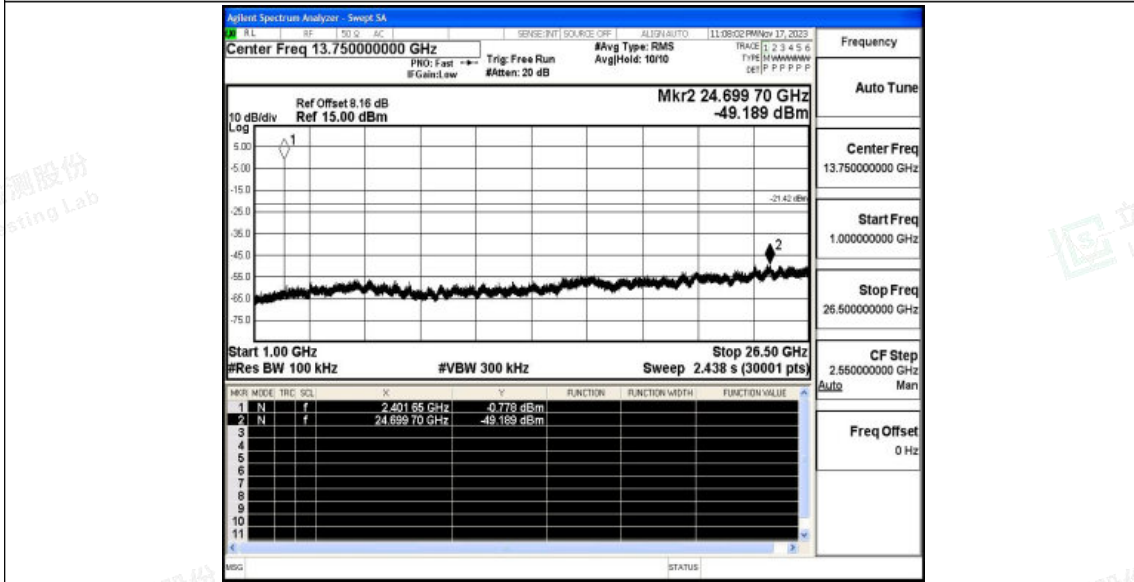




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2DH5\_Ant1\_2402\_1000~26500

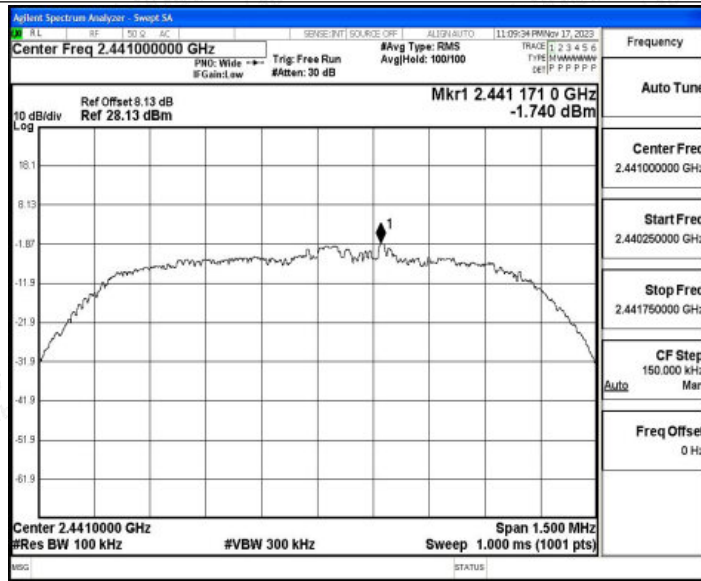


2DH5\_Ant1\_2441\_0~Reference

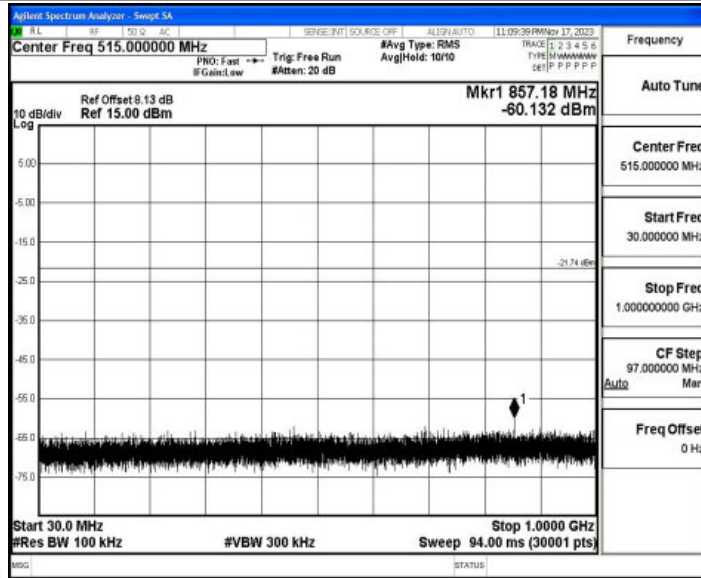




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2DH5\_Ant1\_2441\_30~1000



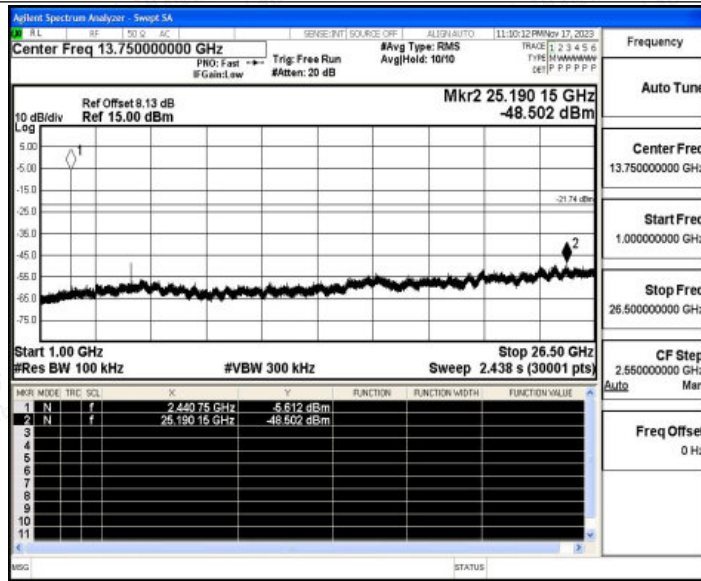
2DH5\_Ant1\_2441\_1000~26500



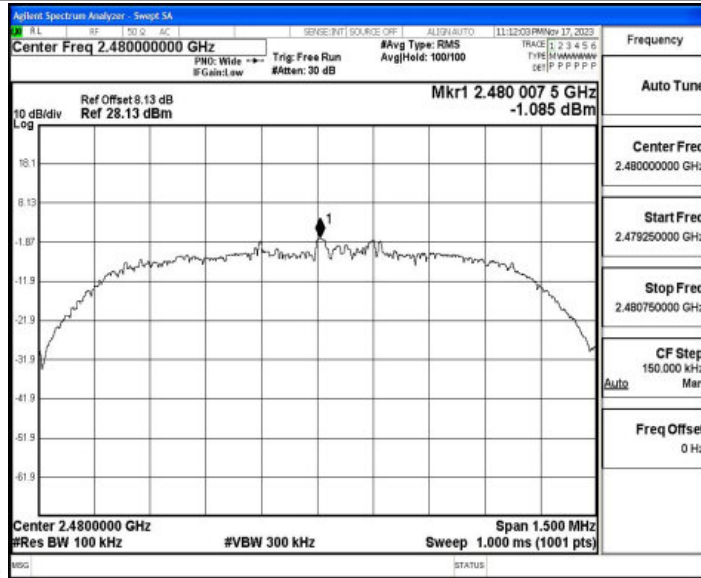




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2DH5\_Ant1\_2480\_0~Reference



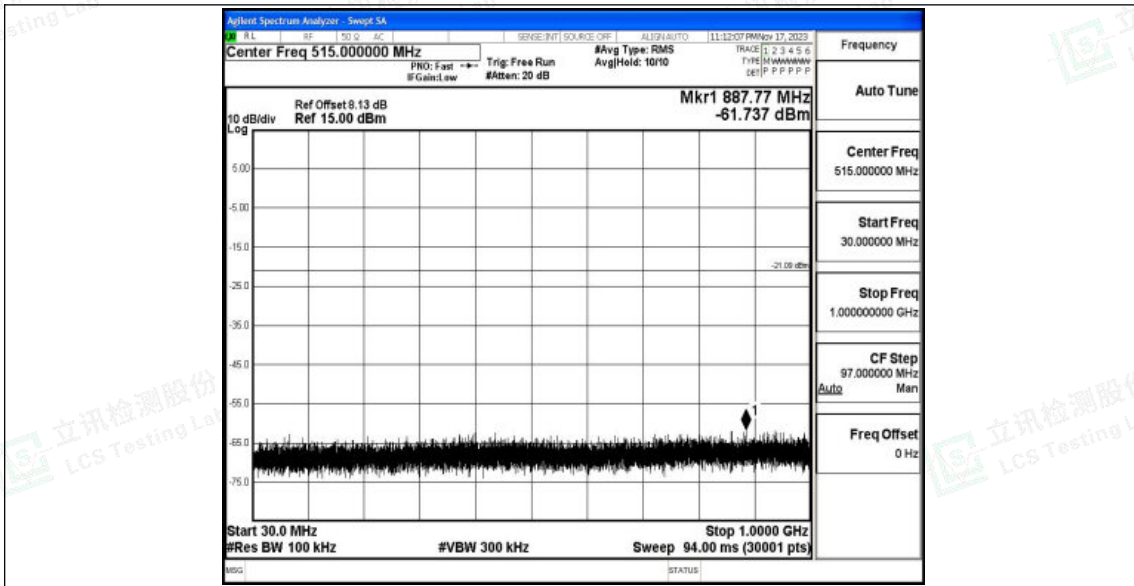
2DH5\_Ant1\_2480\_30~1000



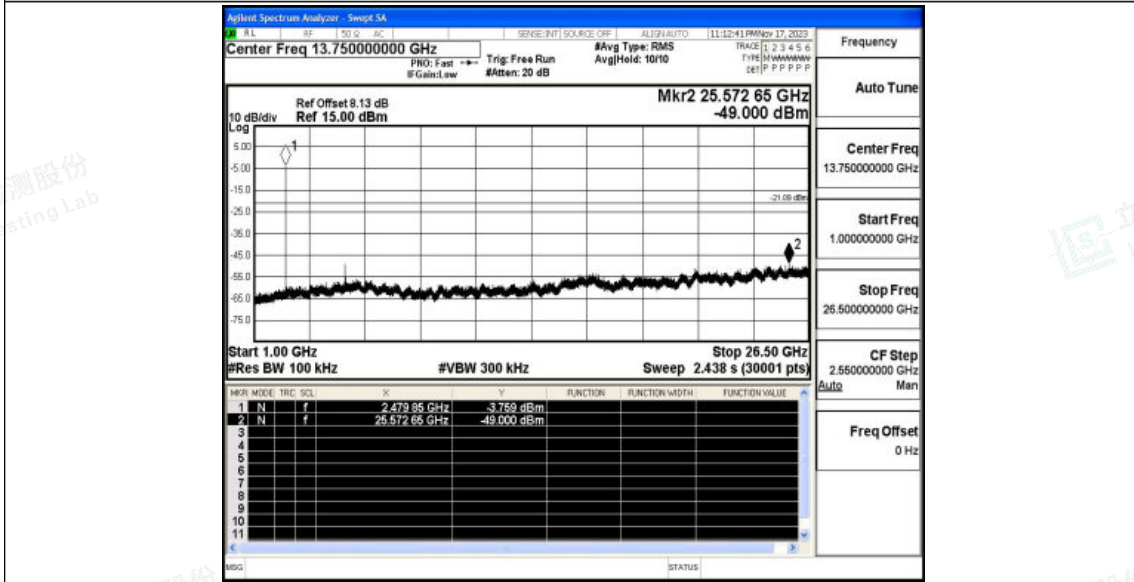




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2DH5\_Ant1\_2480\_1000~26500

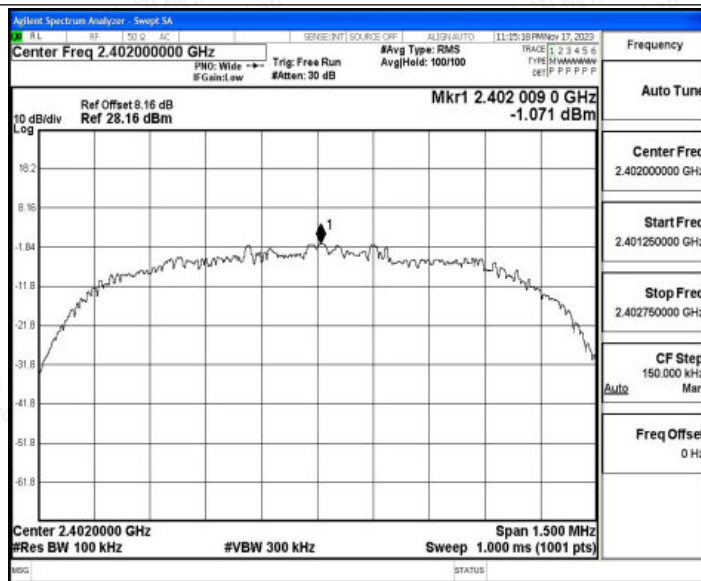


3DH5\_Ant1\_2402\_0~Reference

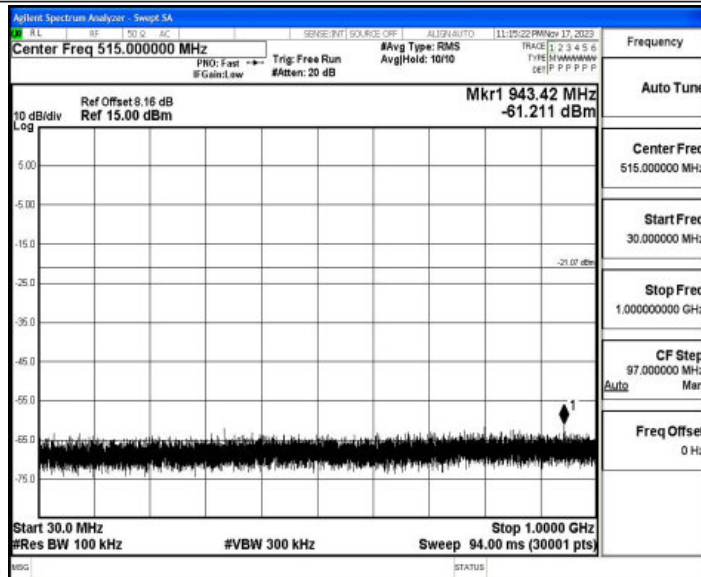




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3DH5\_Ant1\_2402\_30~1000

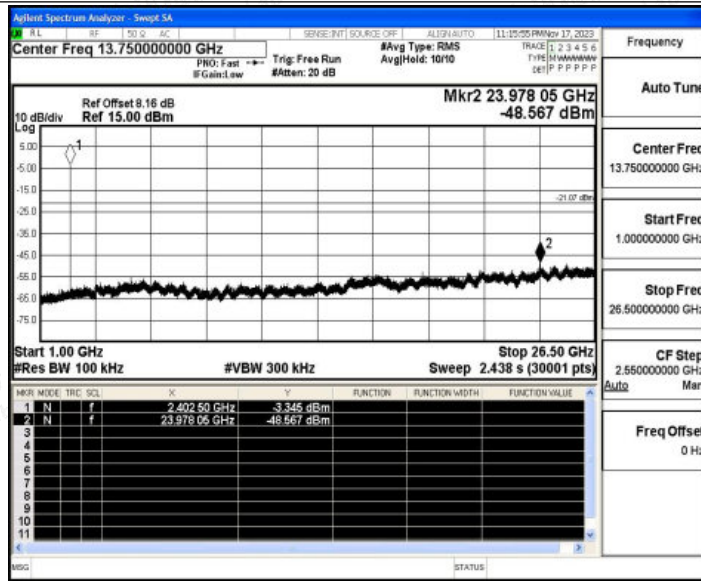


3DH5\_Ant1\_2402\_1000~26500

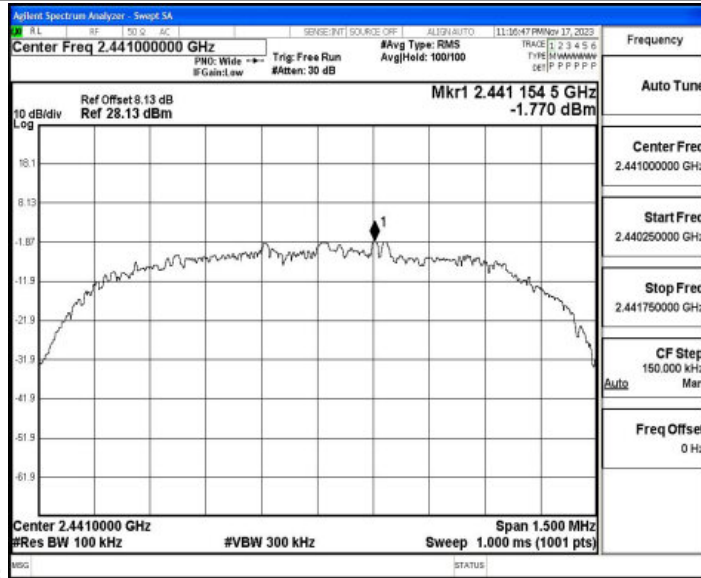




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3DH5\_Ant1\_2441\_0~Reference

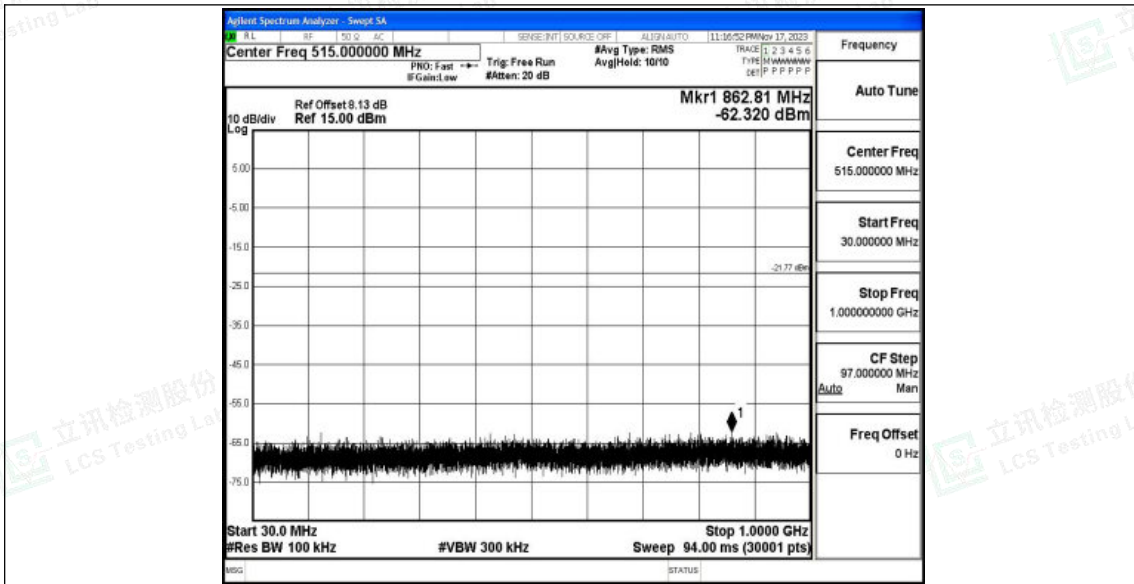


3DH5\_Ant1\_2441\_30~1000

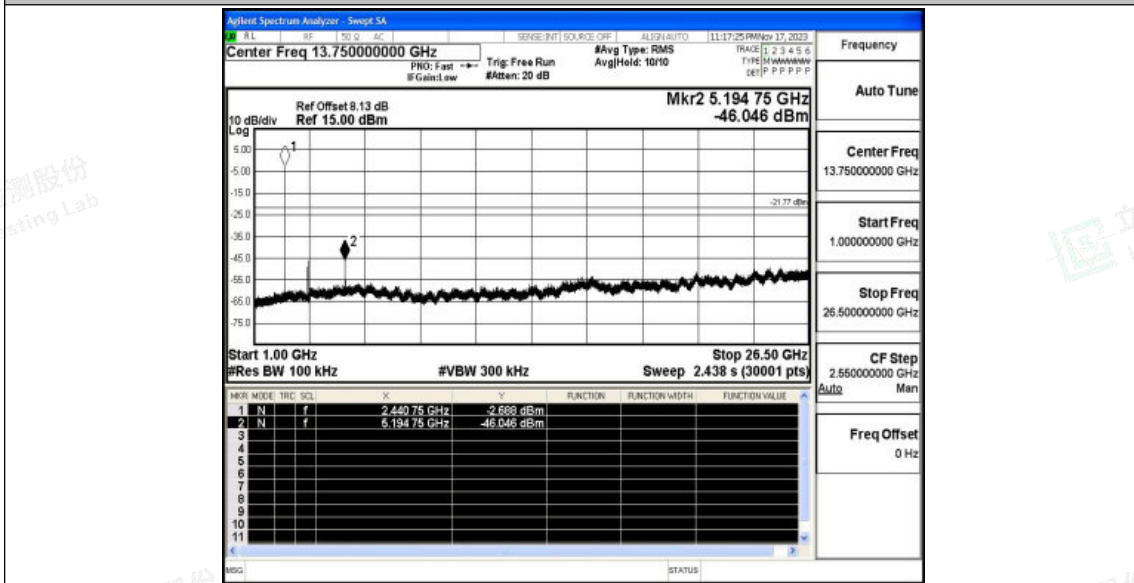




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3DH5\_Ant1\_2441\_1000~26500

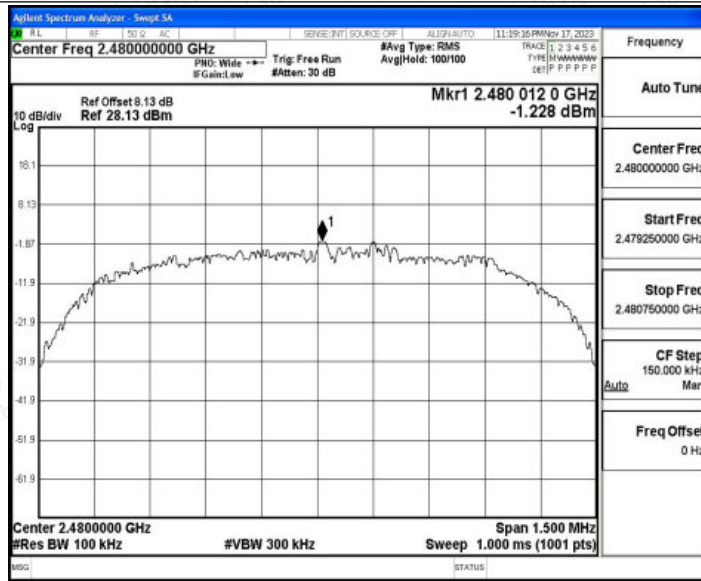


3DH5\_Ant1\_2480\_0~Reference

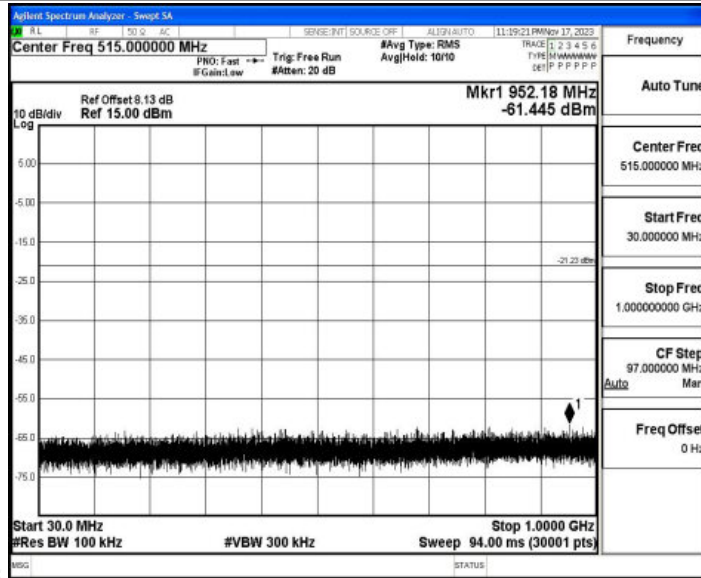




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3DH5\_Ant1\_2480\_30~1000



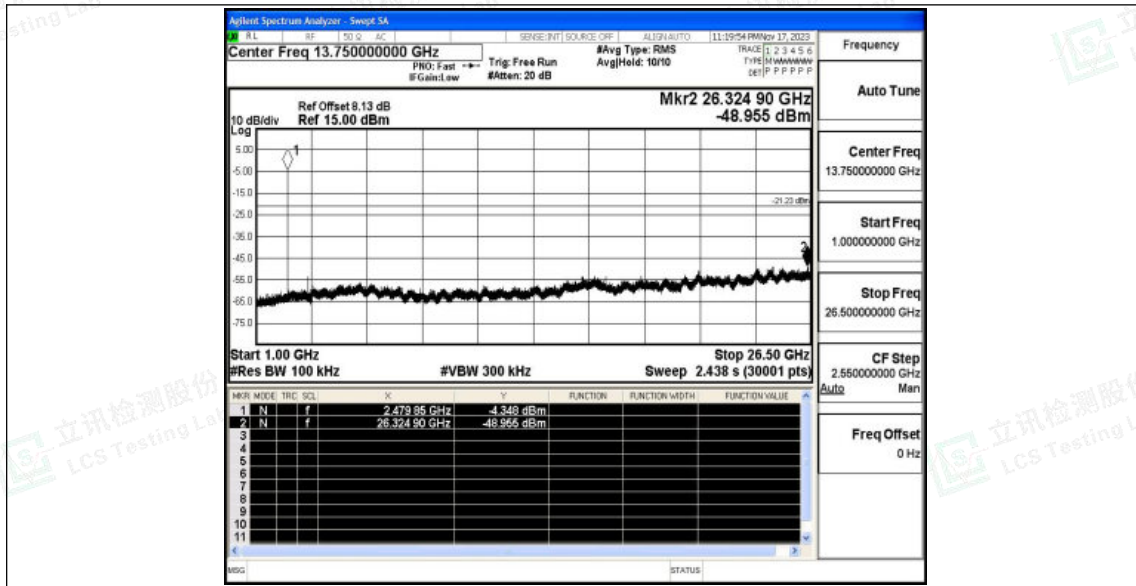
3DH5\_Ant1\_2480\_1000~26500







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## 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	-49.25	≤-41.20	45.95	≤54	PASS
				AV	2385.470	-48.73	≤-41.20	46.47	≤54	PASS
				AV	2390.000	-48.96	≤-41.20	46.24	≤54	PASS
				Peak	2310.000	-43.73	≤-21.20	51.47	≤74	PASS
				Peak	2319.740	-39.86	≤-21.20	55.34	≤74	PASS
				Peak	2390.000	-40.77	≤-21.20	54.43	≤74	PASS
		High	2480	AV	2483.500	-48.65	≤-41.20	46.55	≤54	PASS
				AV	2498.320	-48.59	≤-41.20	46.61	≤54	PASS
				AV	2500.000	-48.74	≤-41.20	46.46	≤54	PASS
				Peak	2483.500	-43.68	≤-21.20	51.52	≤74	PASS
				Peak	2496.880	-39.23	≤-21.20	55.97	≤74	PASS
				Peak	2500.000	-44.47	≤-21.20	50.73	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.51	≤-21.20	53.69	≤74	PASS
				Peak	2312.390	-38.5	≤-21.20	56.70	≤74	PASS
				Peak	2390.000	-41.39	≤-21.20	53.81	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-41.07	≤-21.20	54.13	≤74	PASS
				Peak	2484.080	-38.85	≤-21.20	56.35	≤74	PASS
				Peak	2500.000	-40.67	≤-21.20	54.53	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.24	≤-41.20	45.96	≤54	PASS
				AV	2387.045	-48.67	≤-41.20	46.53	≤54	PASS
				AV	2390.000	-48.93	≤-41.20	46.27	≤54	PASS
				Peak	2310.000	-43.1	≤-21.20	52.10	≤74	PASS
				Peak	2386.835	-39.58	≤-21.20	55.62	≤74	PASS
				Peak	2390.000	-42.63	≤-21.20	52.57	≤74	PASS
		High	2480	AV	2483.500	-48.45	≤-41.20	46.75	≤54	PASS
				AV	2483.520	-48.45	≤-41.20	46.75	≤54	PASS
				AV	2500.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2483.500	-44.27	≤-21.20	50.93	≤74	PASS
				Peak	2489.200	-39.85	≤-21.20	55.35	≤74	PASS
				Peak	2500.000	-44.71	≤-21.20	50.49	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.67	≤-21.20	54.53	≤74	PASS
				Peak	2344.730	-38.71	≤-21.20	56.49	≤74	PASS
				Peak	2390.000	-40.36	≤-21.20	54.84	≤74	PASS
High	Hop_24	Peak	2483.500	-40.5	≤-21.20	54.70	≤74	PASS		



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Scan code to check authenticity



			80	Peak	2497.200	-38.66	≤-21.20	56.54	≤74	PASS
				Peak	2500.000	-40.63	≤-21.20	54.57	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.14	≤-41.20	46.06	≤54	PASS
				AV	2381.900	-48.71	≤-41.20	46.49	≤54	PASS
				AV	2390.000	-48.92	≤-41.20	46.28	≤54	PASS
				Peak	2310.000	-45.19	≤-21.20	50.01	≤74	PASS
				Peak	2345.675	-39.47	≤-21.20	55.73	≤74	PASS
				Peak	2390.000	-45.08	≤-21.20	50.12	≤74	PASS
		High	2480	AV	2483.500	-48.41	≤-41.20	46.79	≤54	PASS
				AV	2483.520	-48.4	≤-41.20	46.80	≤54	PASS
				AV	2500.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2483.500	-41.73	≤-21.20	53.47	≤74	PASS
				Peak	2485.440	-39.9	≤-21.20	55.30	≤74	PASS
				Peak	2500.000	-42.22	≤-21.20	52.98	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-41.34	≤-21.20	53.86	≤74	PASS
				Peak	2369.510	-38.44	≤-21.20	56.76	≤74	PASS
				Peak	2390.000	-40.88	≤-21.20	54.32	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-40.29	≤-21.20	54.91	≤74	PASS
				Peak	2499.680	-38.34	≤-21.20	56.86	≤74	PASS
				Peak	2500.000	-39.93	≤-21.20	55.27	≤74	PASS

Note:

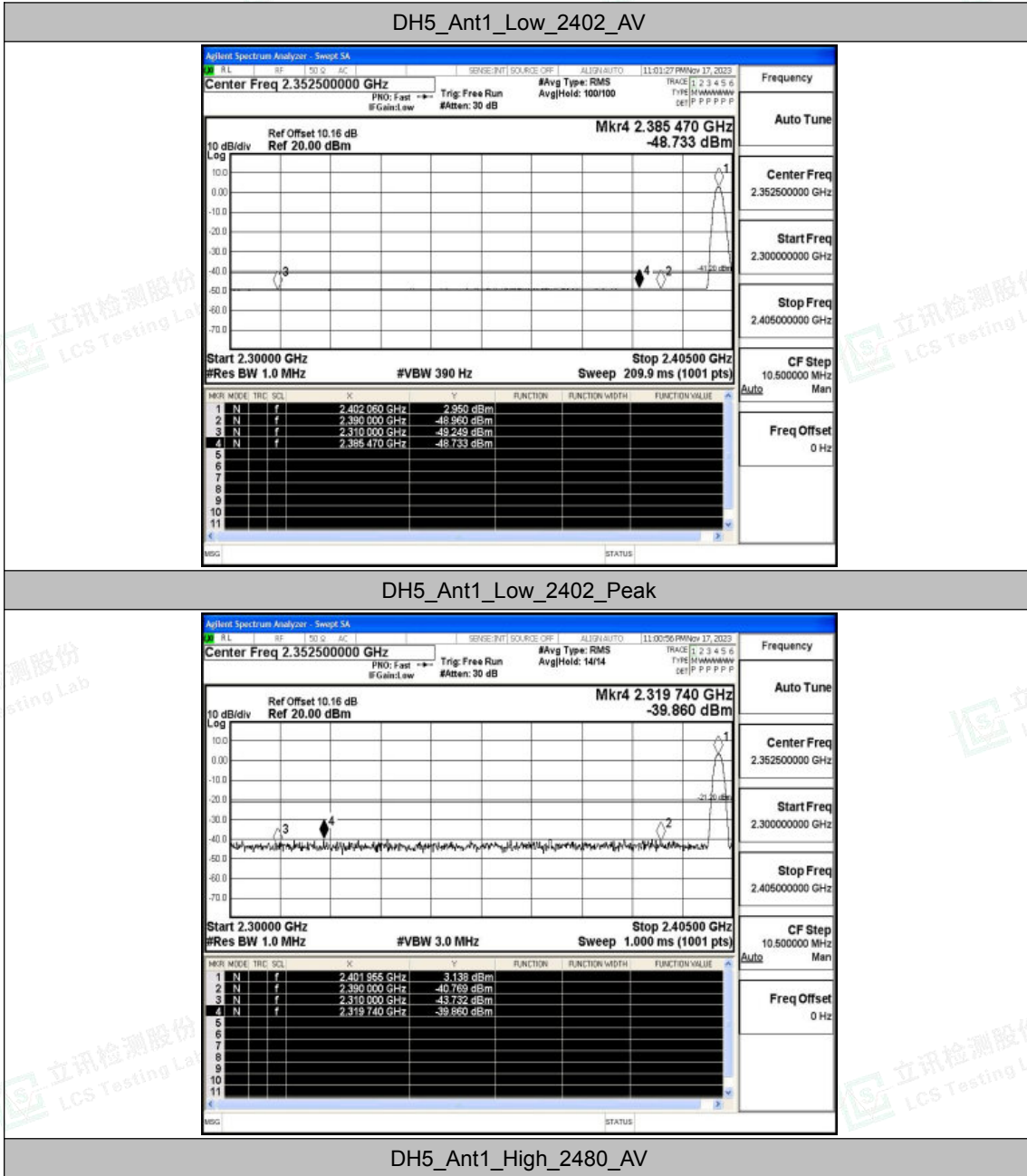
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.





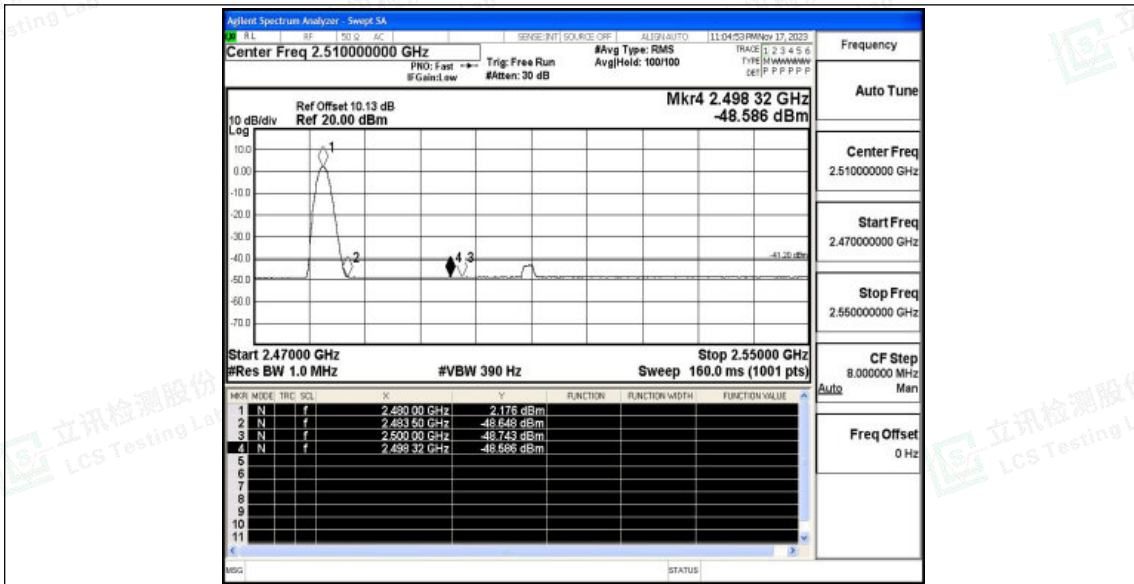
LC SA 1403040EA

### Test Graphs

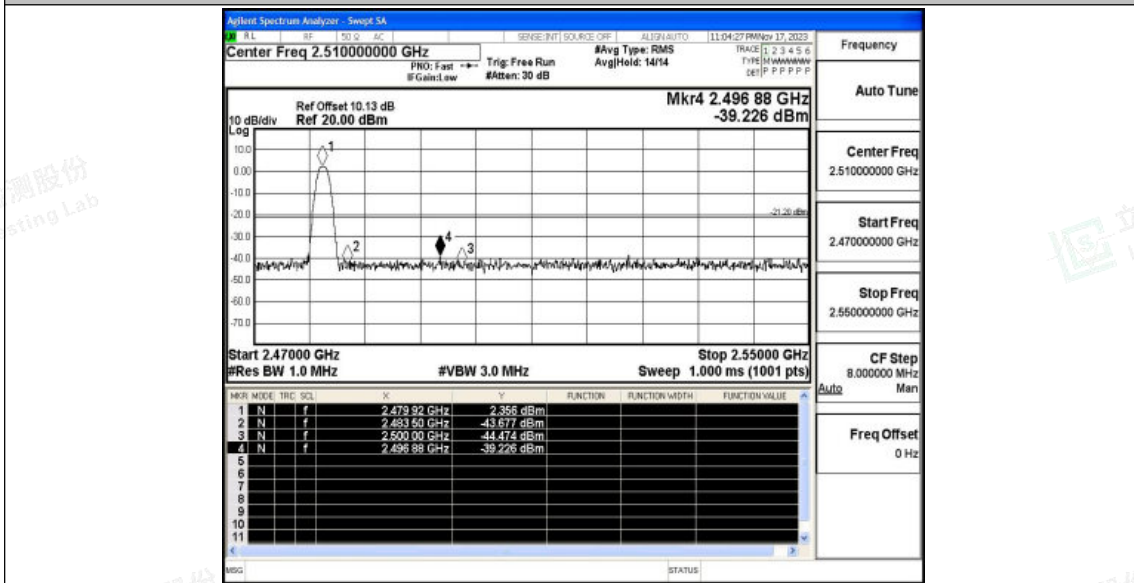




LC SA 103040EA



DH5\_Ant1\_High\_2480\_Peak

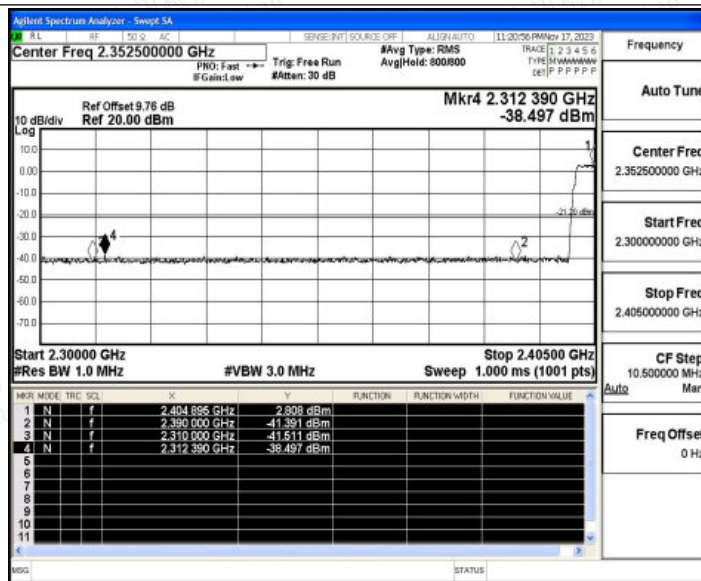


DH5\_Ant1\_Low\_Hop\_2402\_Peak

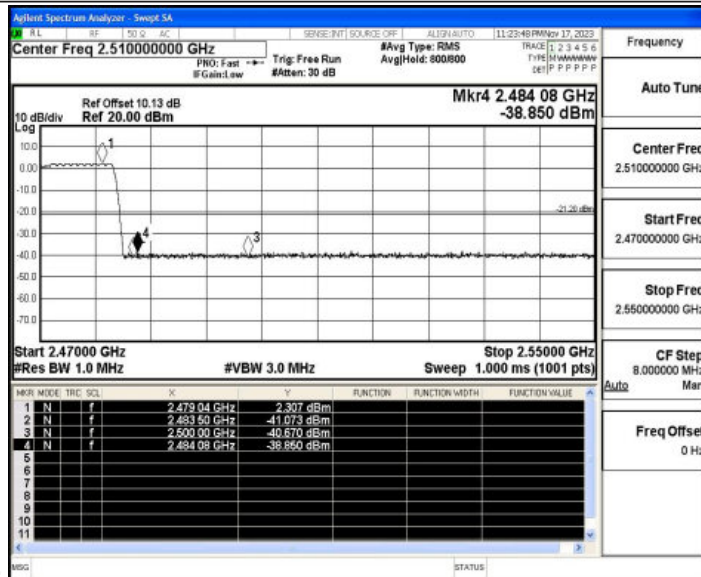




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DH5\_Ant1\_High\_Hop\_2480\_Peak



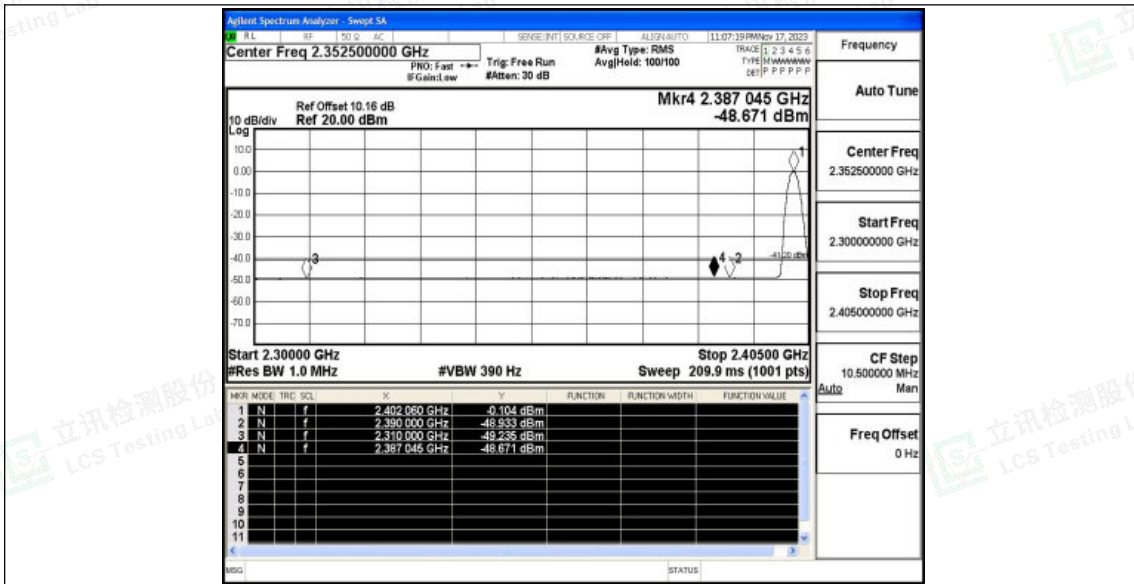
2DH5\_Ant1\_Low\_2402\_AV



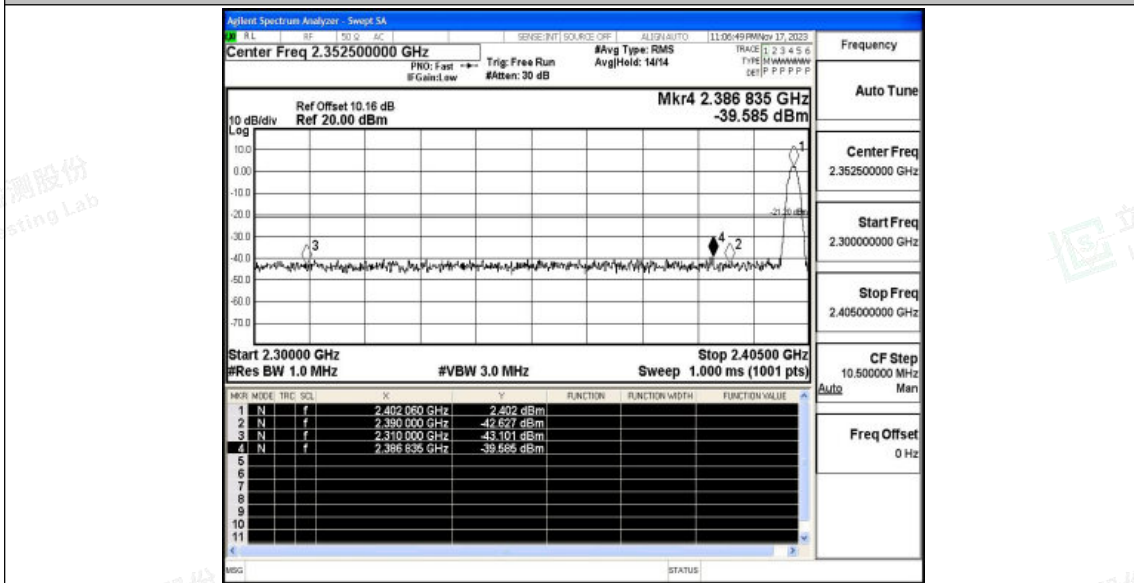




LC-SA-M403040EA



2DH5\_Ant1\_Low\_2402\_Peak



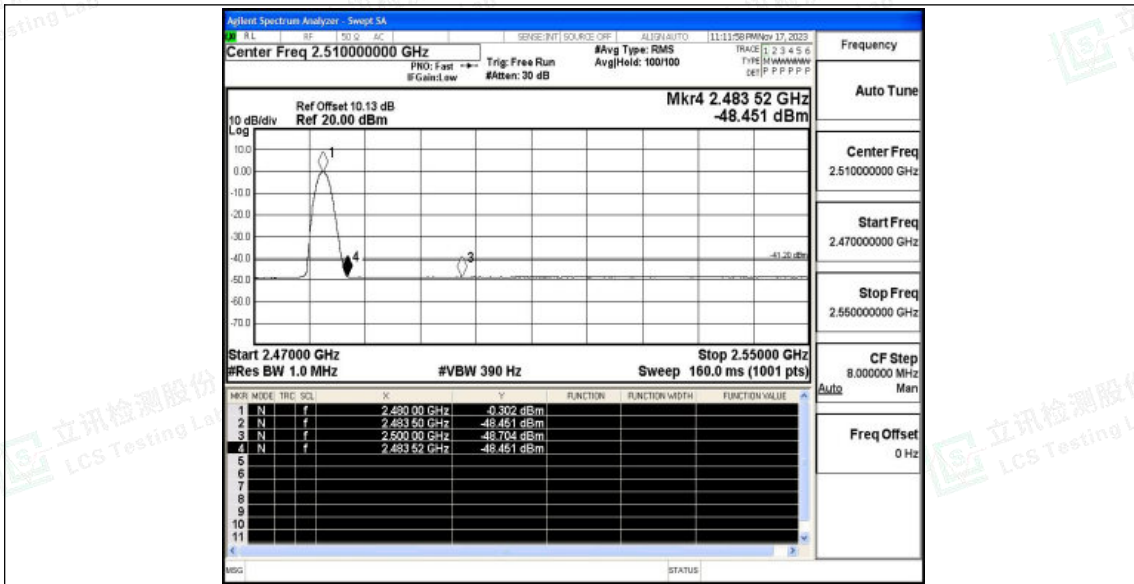
2DH5\_Ant1\_High\_2480\_AV



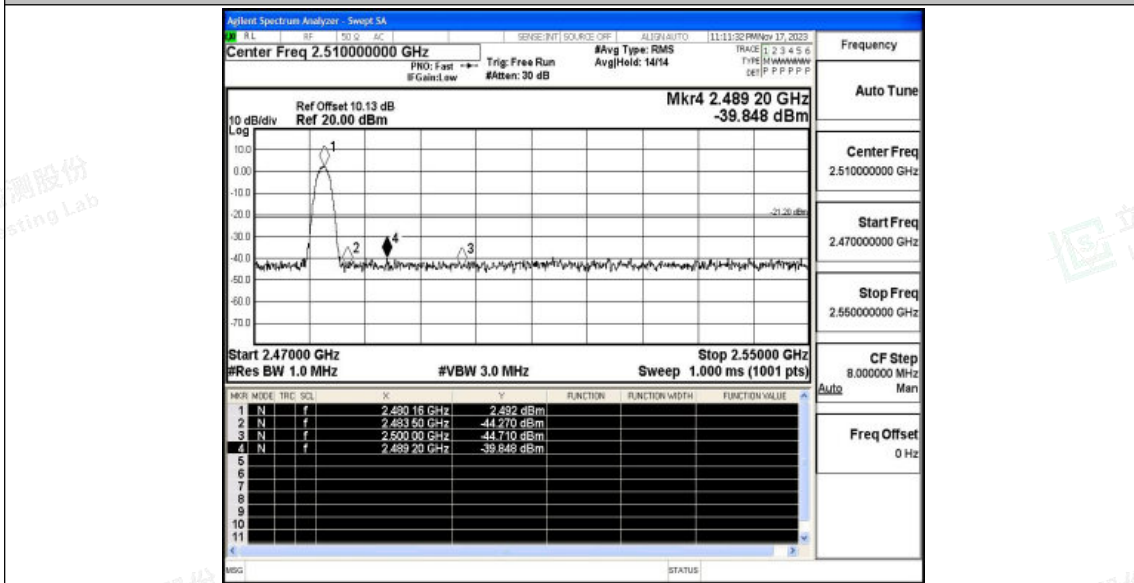




LC SA 2403040EA



2DH5\_Ant1\_High\_2480\_Peak

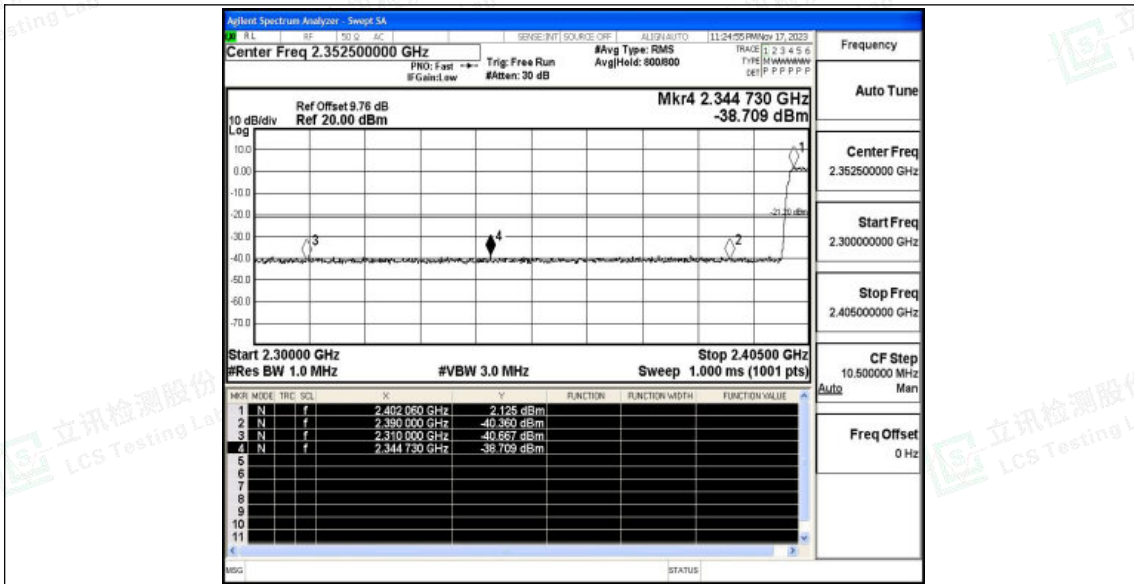


2DH5\_Ant1\_Low\_Hop\_2402\_Peak

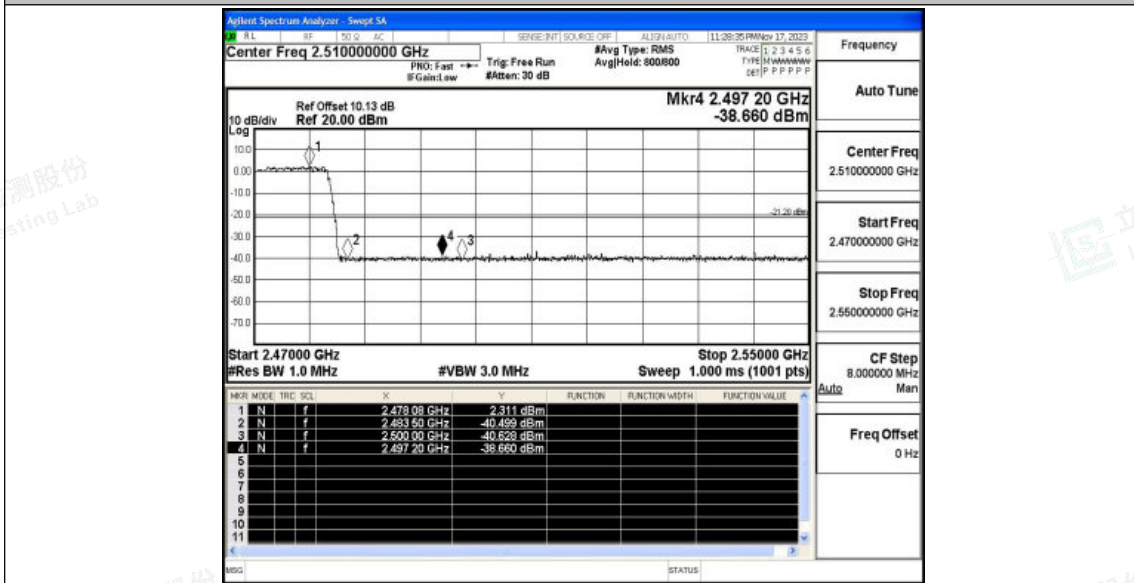




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2DH5\_Ant1\_High\_Hop\_2480\_Peak

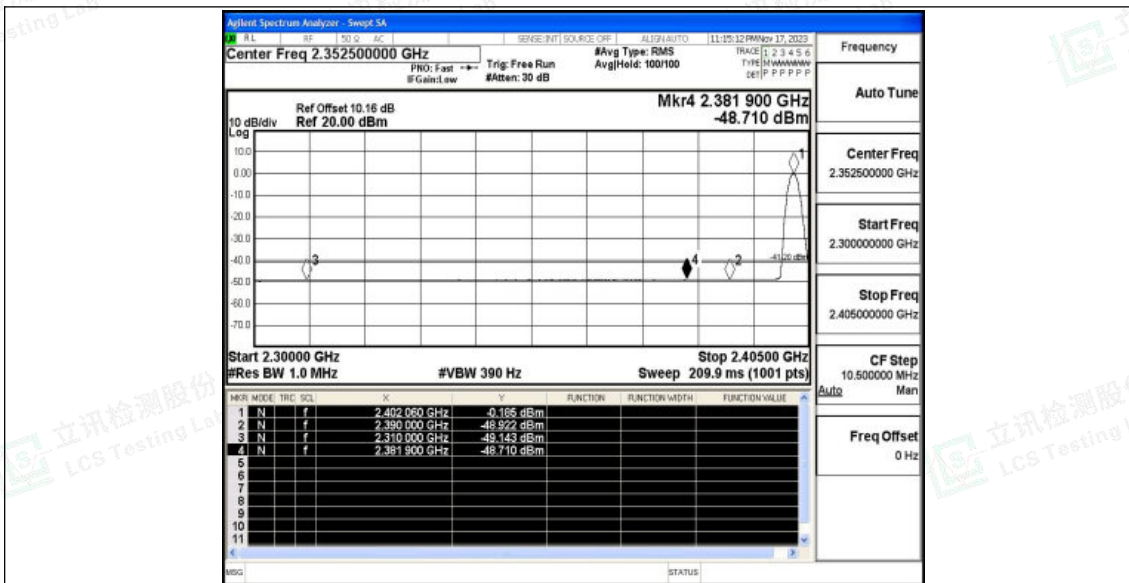


3DH5\_Ant1\_Low\_2402\_AV

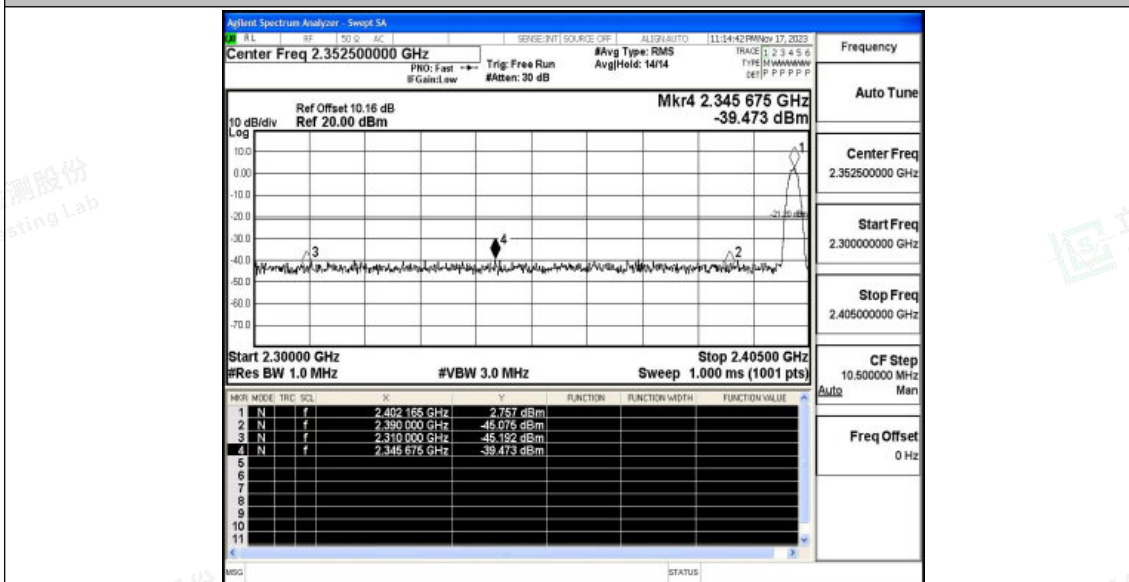




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3DH5\_Ant1\_Low\_2402\_Peak

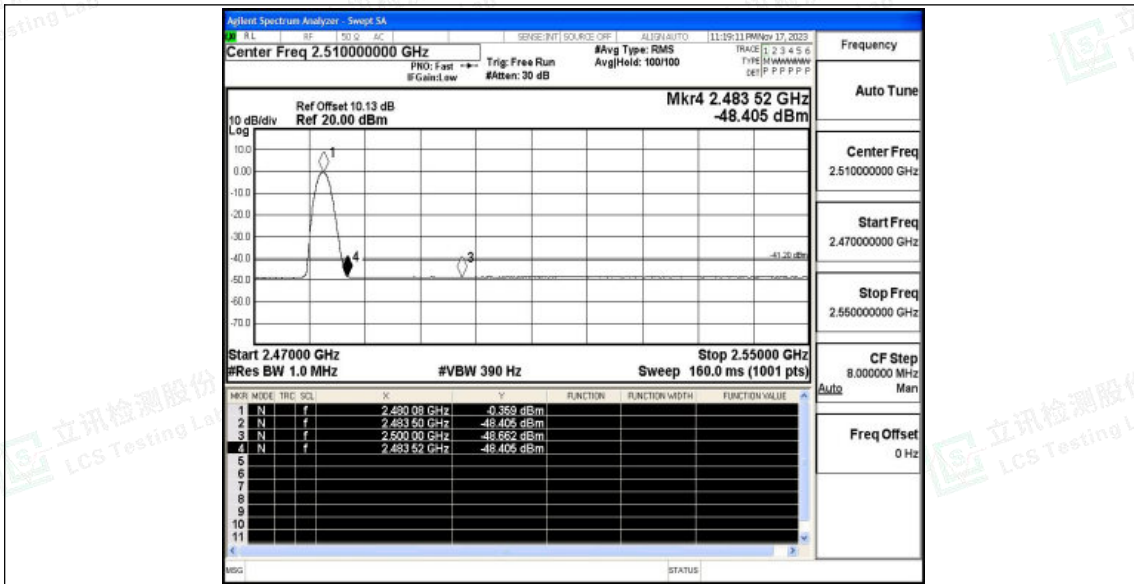


3DH5\_Ant1\_High\_2480\_AV

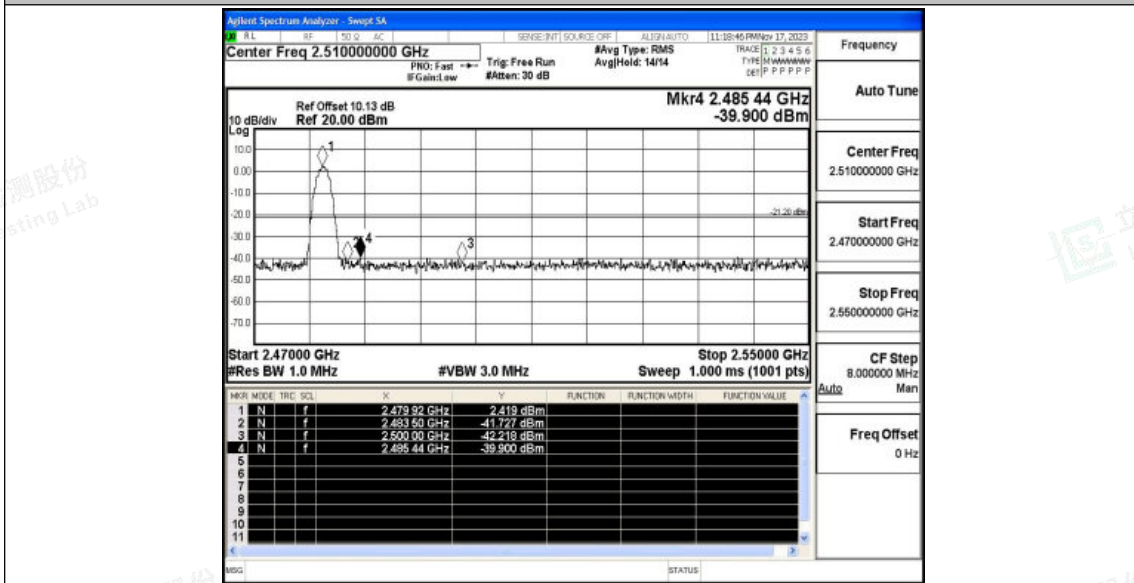




LC-SA-2023040EA



3DH5\_Ant1\_High\_2480\_Peak

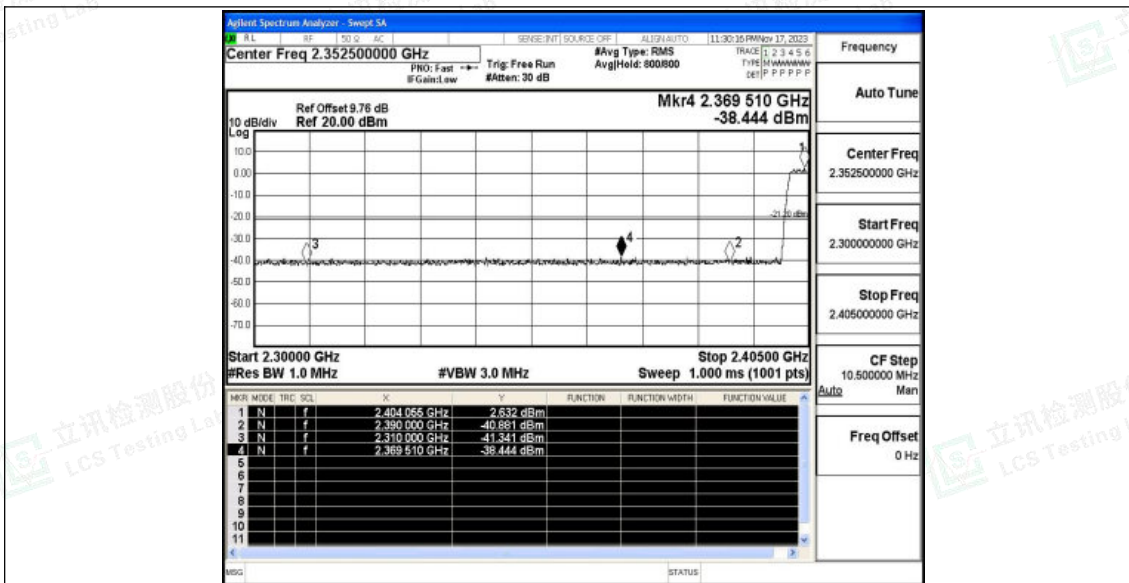


3DH5\_Ant1\_Low\_Hop\_2402\_Peak





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3DH5\_Ant1\_High\_Hop\_2480\_Peak

