



## Appendix A

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

Product Name: MOTORCYCLE SPEAKER

Test Model: SB26BTXRGB

#### Environmental Conditions

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





### A.1 20dB Emission Bandwidth

#### Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.032	2401.457	2402.489	---	---
		2441	1.020	2440.466	2441.486	---	---
		2480	1.014	2479.460	2480.474	---	---
2DH5	Ant1	2402	1.287	2401.349	2402.636	---	---
		2441	1.281	2440.355	2441.636	---	---
		2480	1.311	2479.331	2480.642	---	---

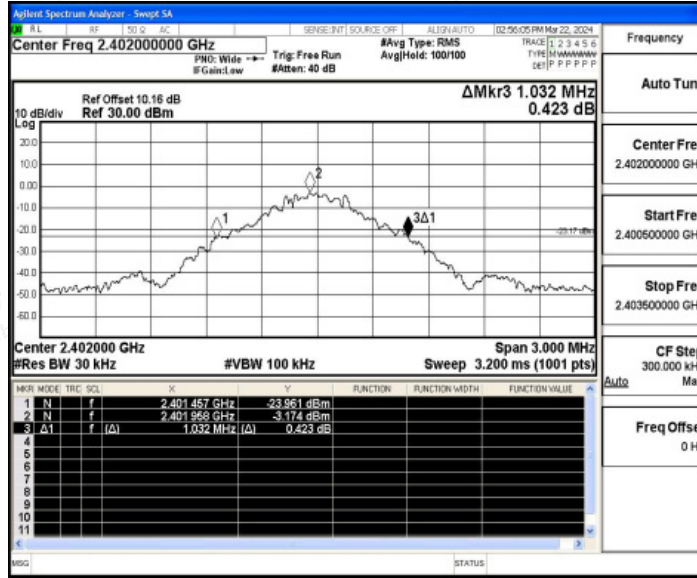


Shenzhen LCS Compliance Testing Laboratory Ltd.  
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

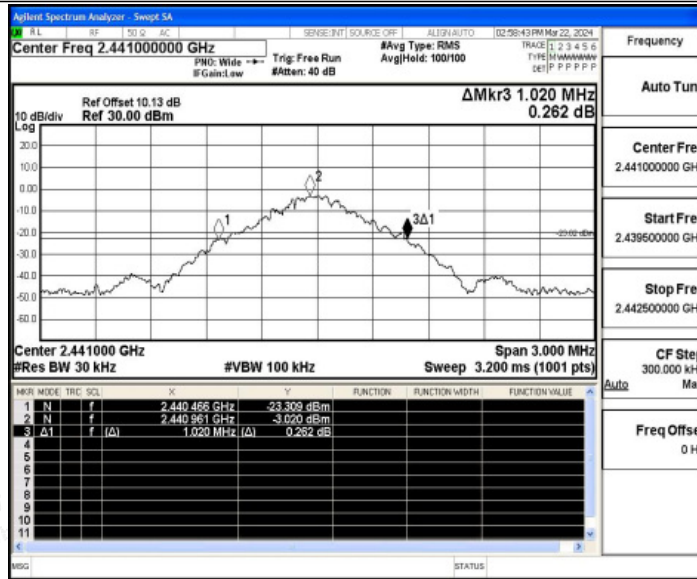


Test Graphs

DH5\_Ant1\_2402

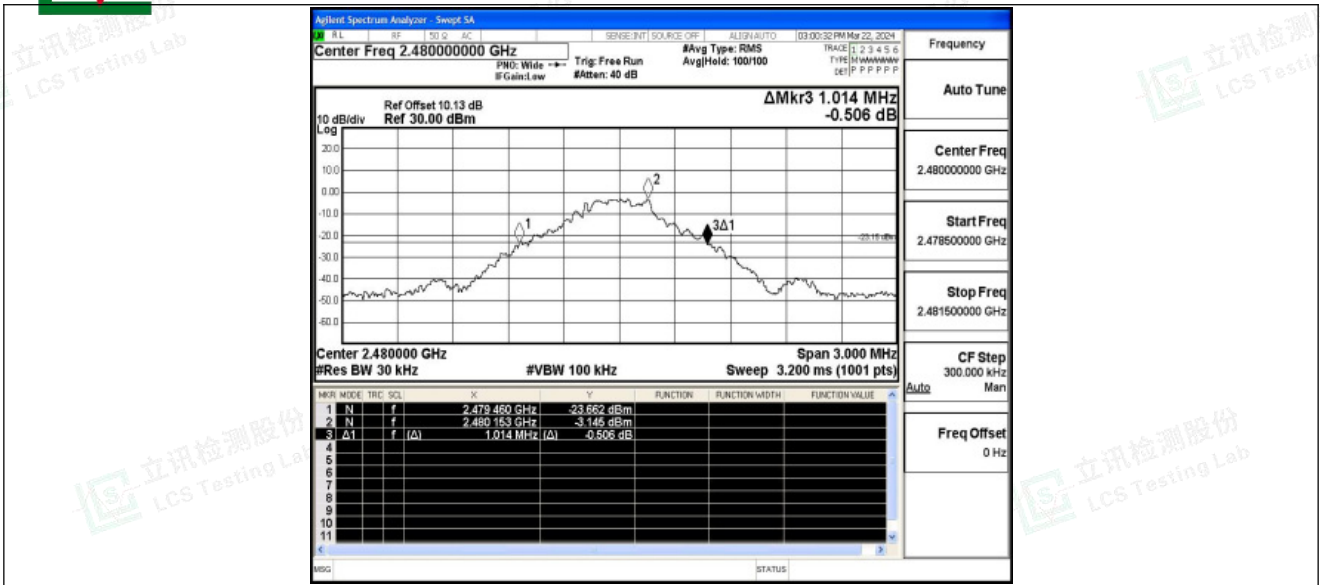


DH5\_Ant1\_2441

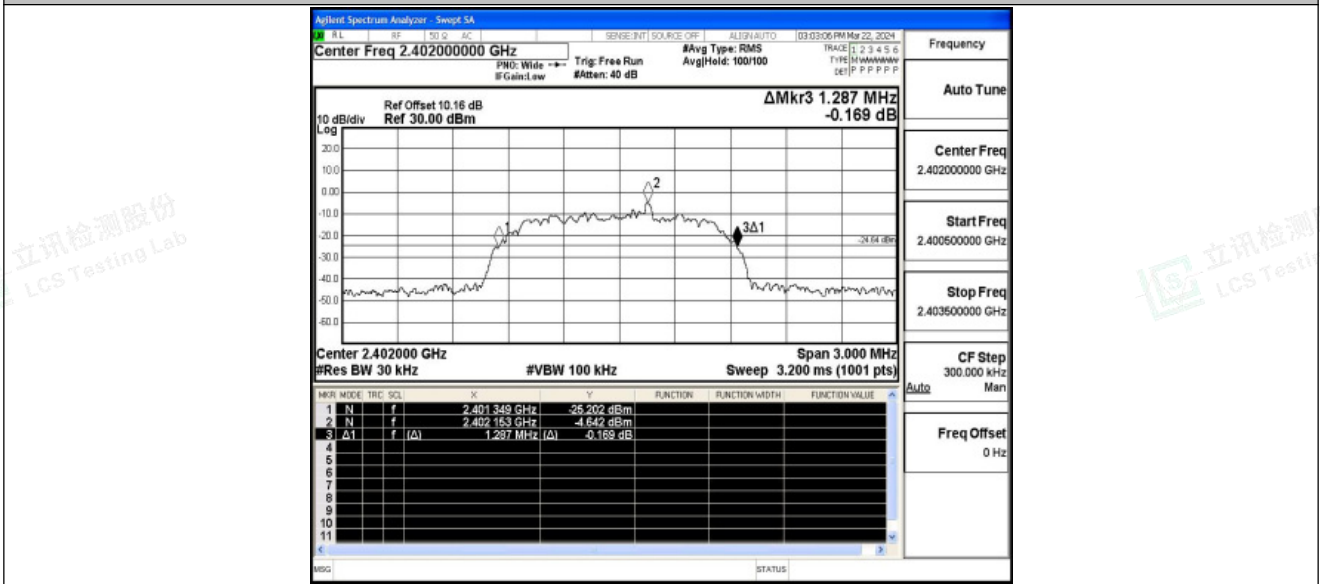


DH5\_Ant1\_2480



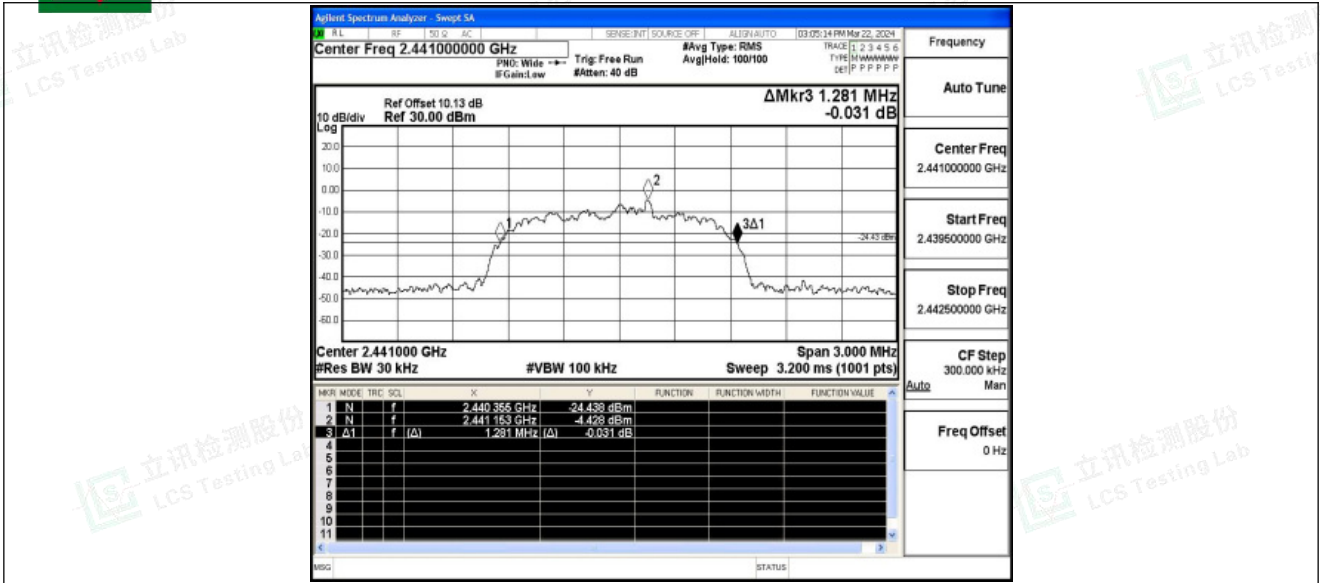


2Dh5\_Ant1\_2402

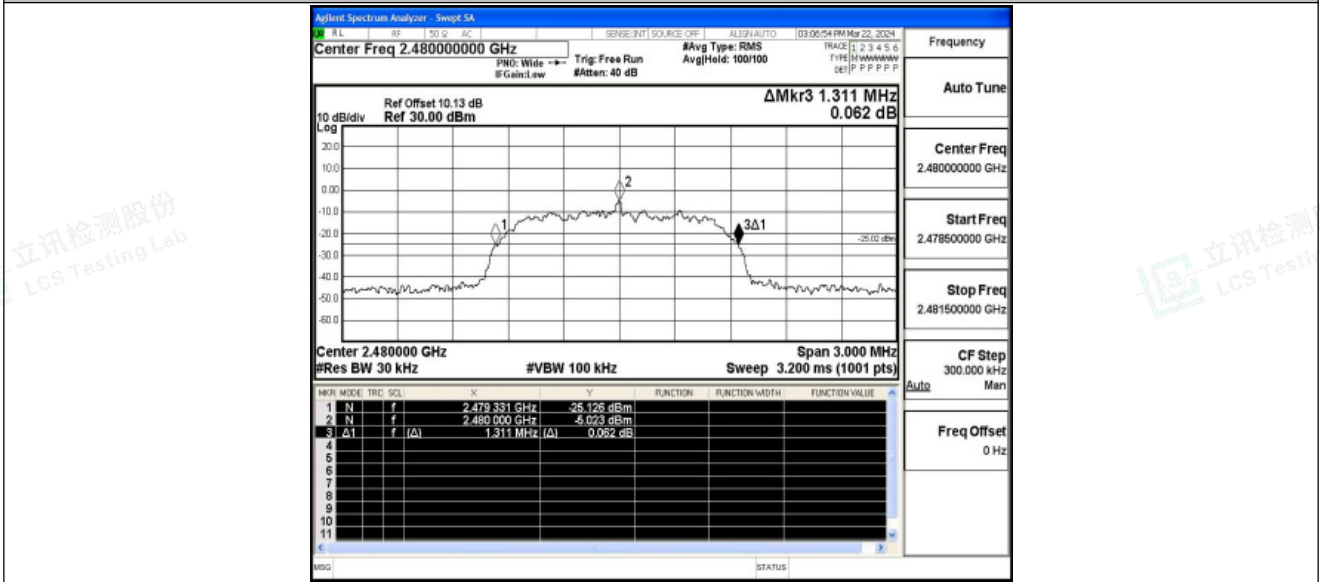


2Dh5\_Ant1\_2441





2DH5\_Ant1\_2480





## A.2 Maximum conducted output power

### Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.03	≤20.97	PASS
		2441	0.14	≤20.97	PASS
		2480	0.05	≤20.97	PASS
2DH5	Ant1	2402	-0.46	≤20.97	PASS
		2441	-0.29	≤20.97	PASS
		2480	-0.23	≤20.97	PASS

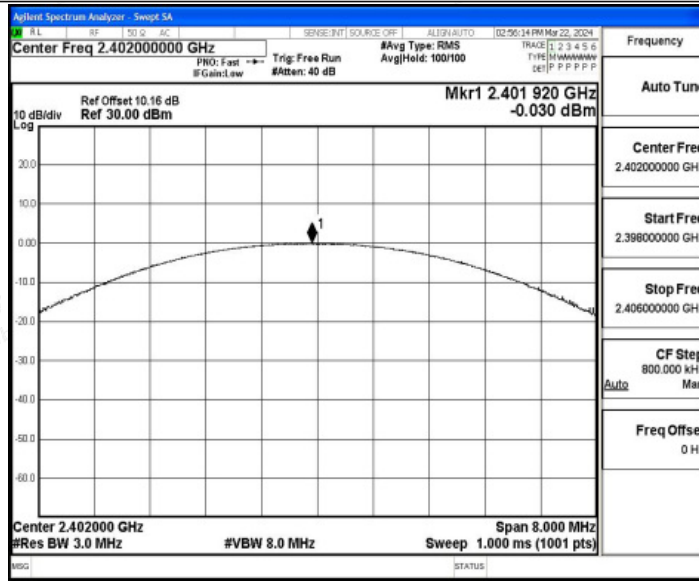




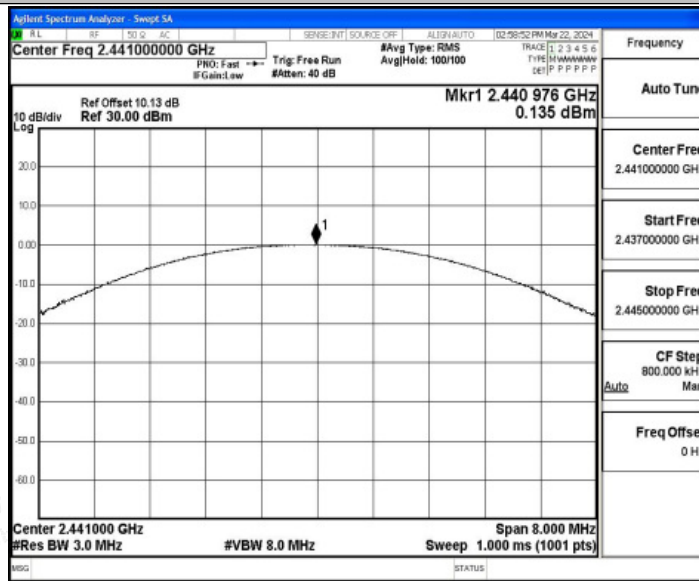


Test Graphs

DH5\_Ant1\_2402

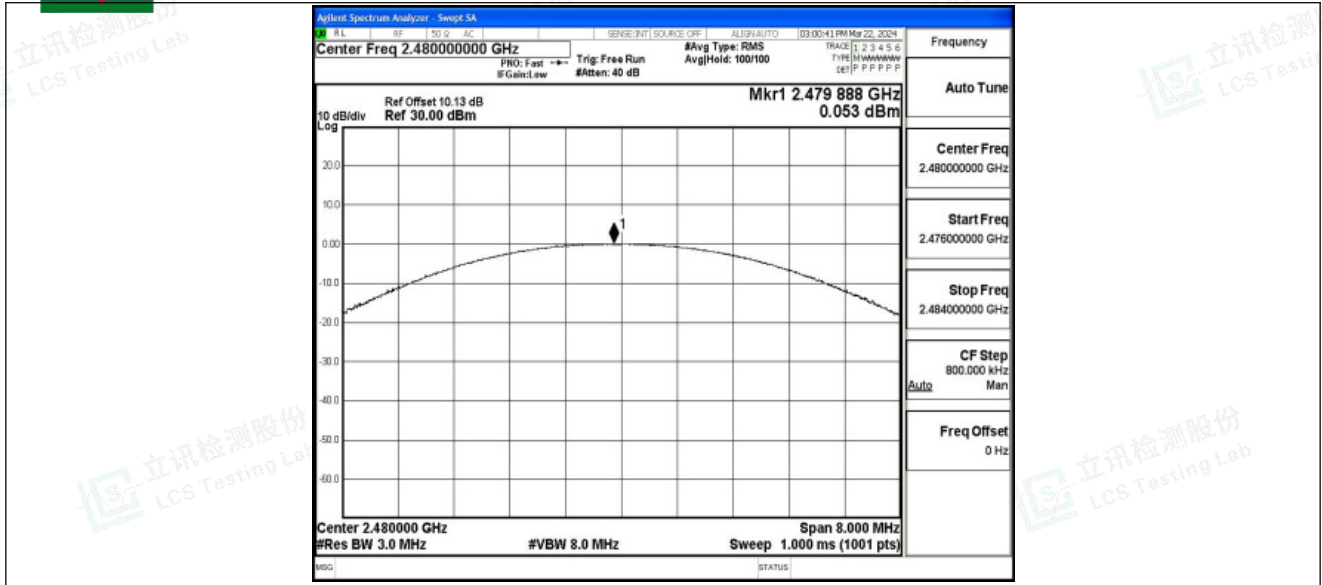


DH5\_Ant1\_2441

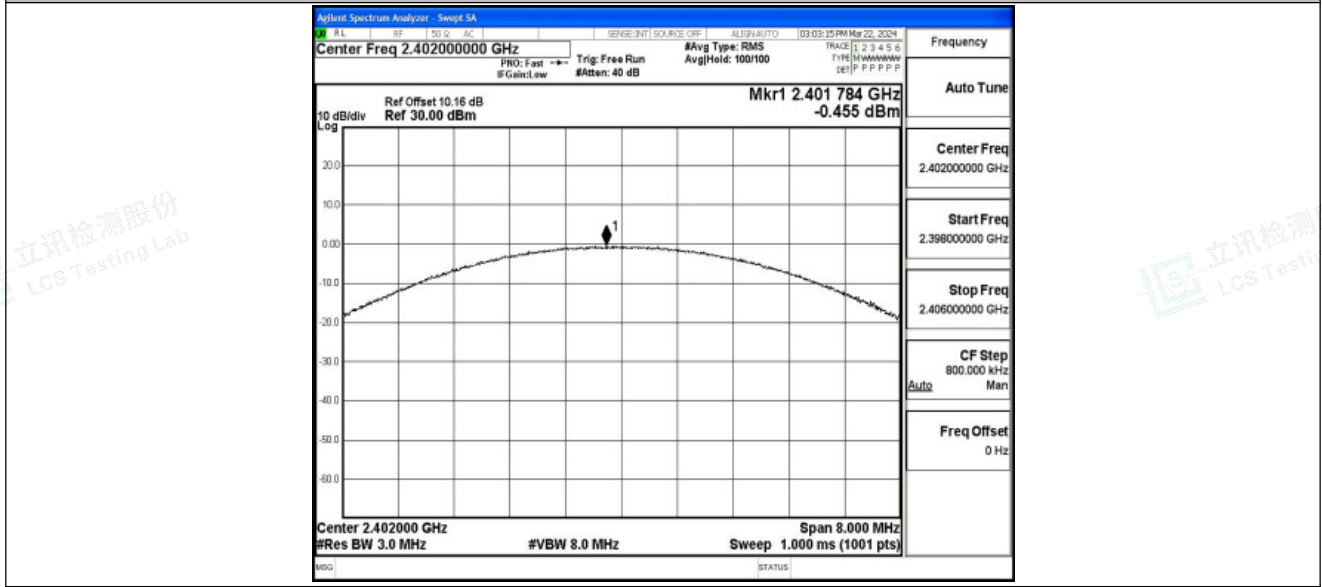


DH5\_Ant1\_2480





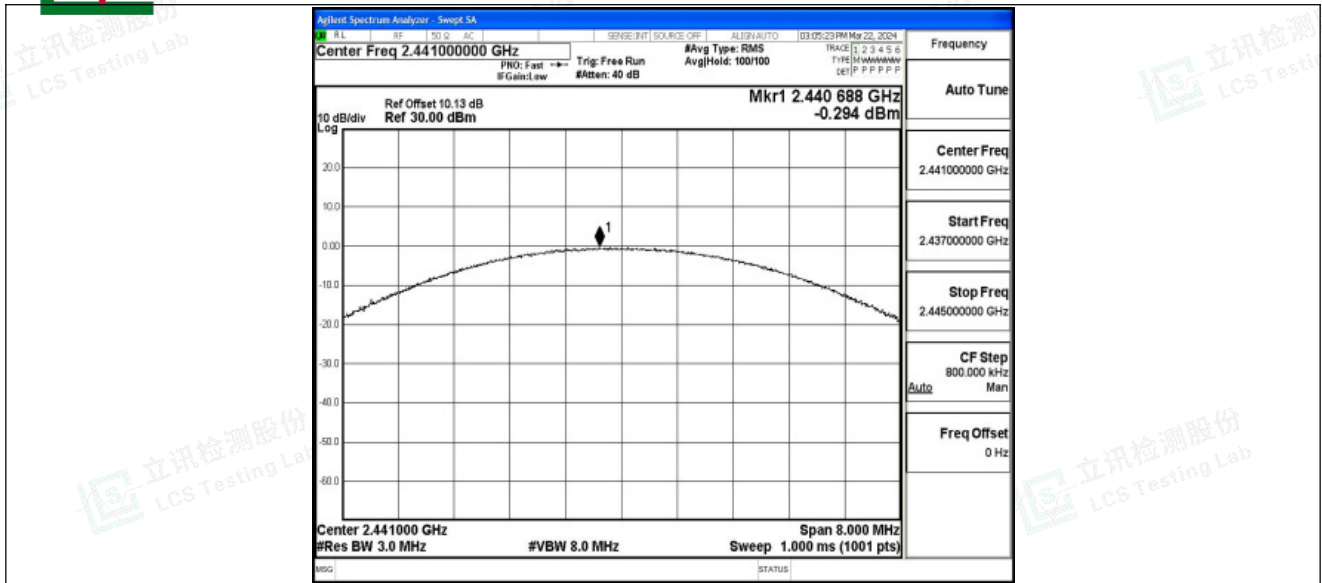
2DH5\_Ant1\_2402



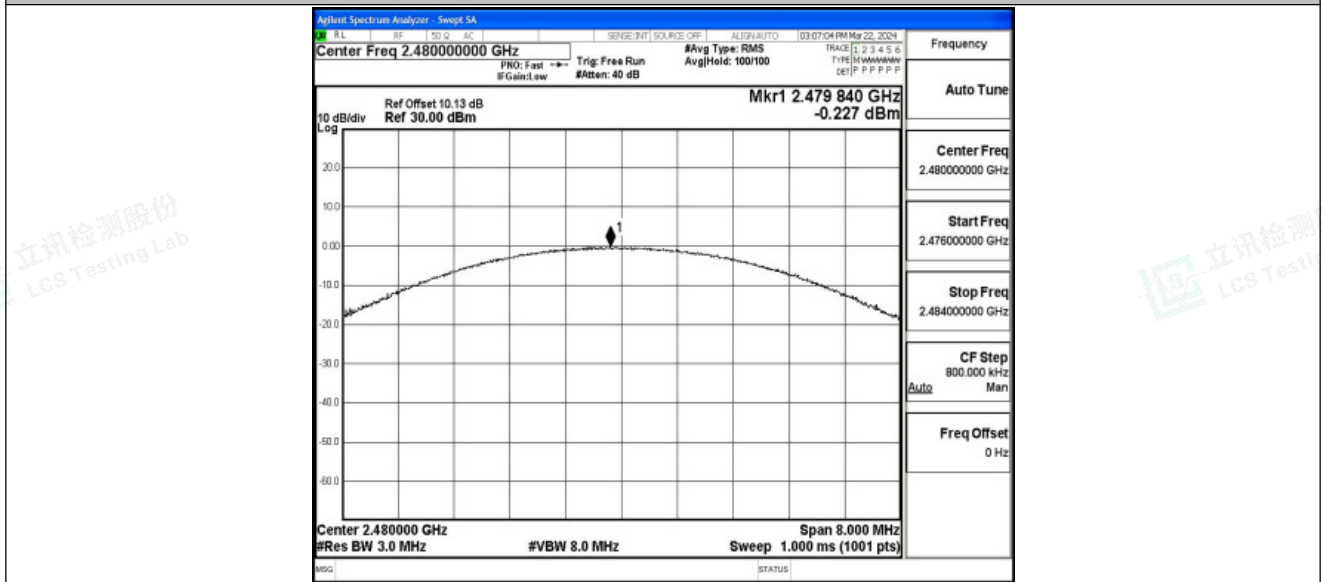
2DH5\_Ant1\_2441







2DH5\_Ant1\_2480





### A.3 Carrier frequency separation

#### Test Result

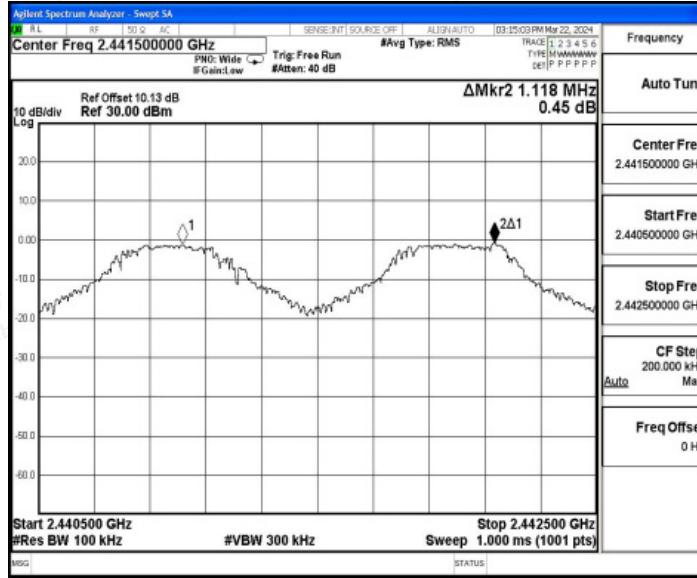
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.118	≥1.032	PASS
2DH5	Ant1	Hop	0.928	≥0.874	PASS



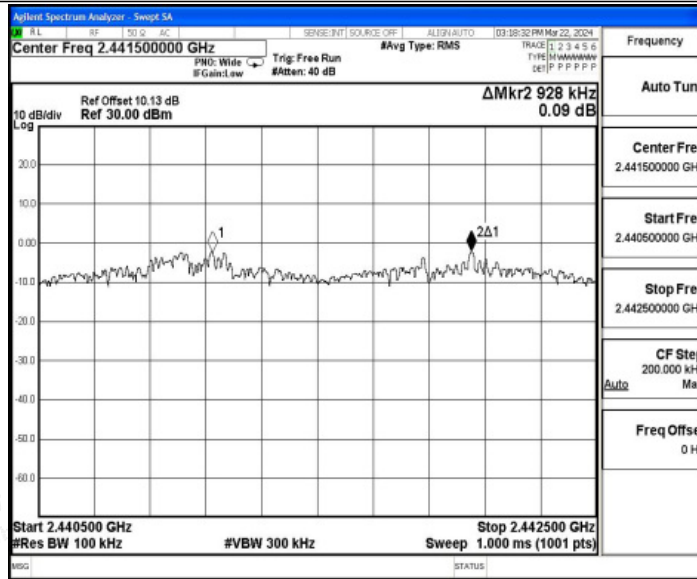


### Test Graphs

#### DH5\_Ant1\_Hop



#### 2DH5\_Ant1\_Hop





## A.4 Time of occupancy

### Test Result

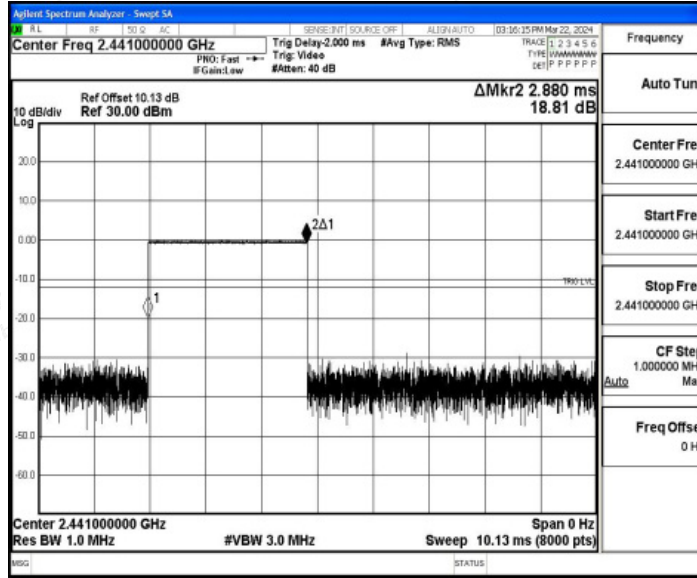
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.883	106.67	0.308	≤0.4	PASS



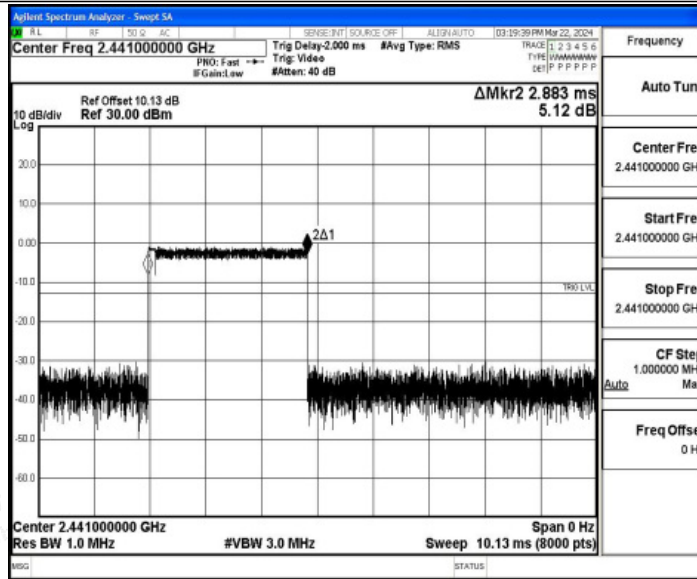


### Test Graphs

#### DH5\_Ant1\_Hop



#### 2DH5\_Ant1\_Hop





## A.5 Number of hopping channels

### Test Result

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

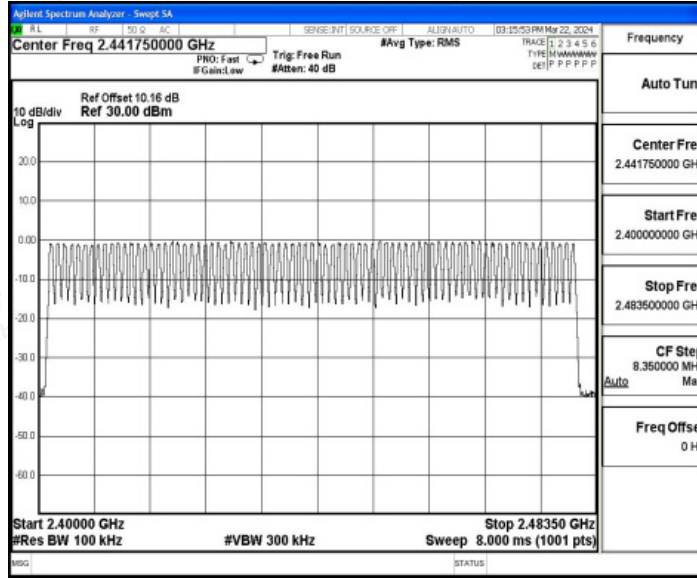




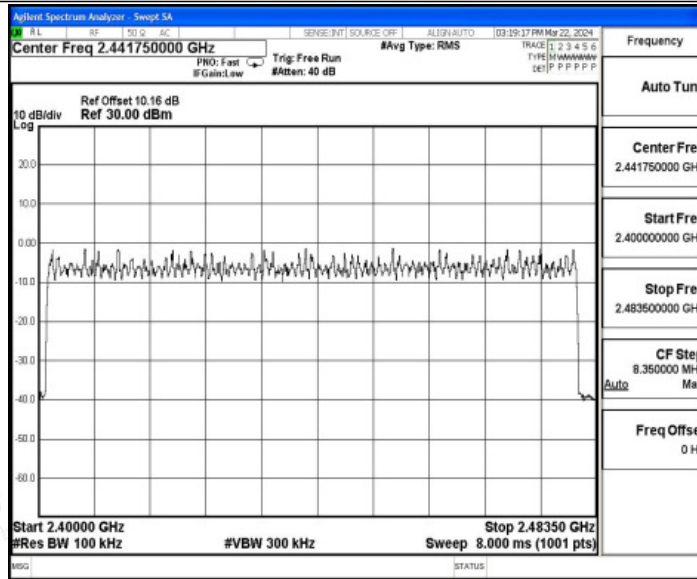


### Test Graphs

#### DH5\_Ant1\_Hop



#### 2DH5\_Ant1\_Hop





### Reference Level

### Test Result

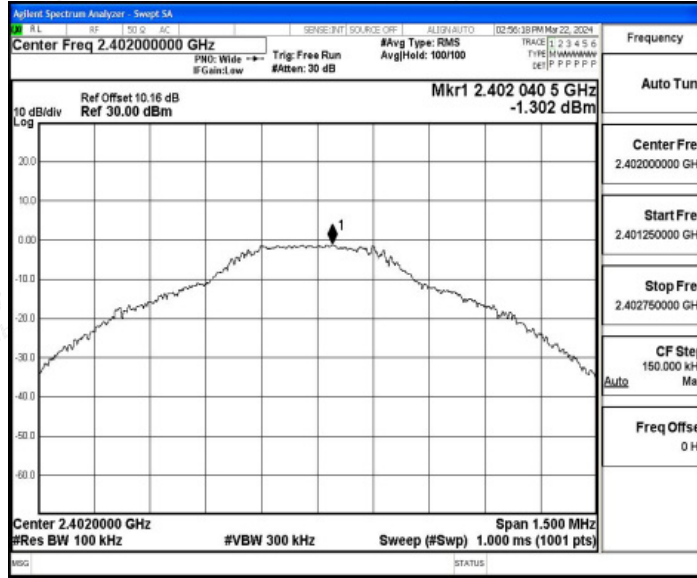
TestMode	Antenna	ChName	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	2402.04	-1.30	---	PASS
		2441	2440.98	-1.09	---	PASS
		2480	2480.05	-1.10	---	PASS
2DH5	Ant1	2402	2401.80	-2.84	---	PASS
		2441	2440.80	-2.37	---	PASS
		2480	2480.16	-1.67	---	PASS



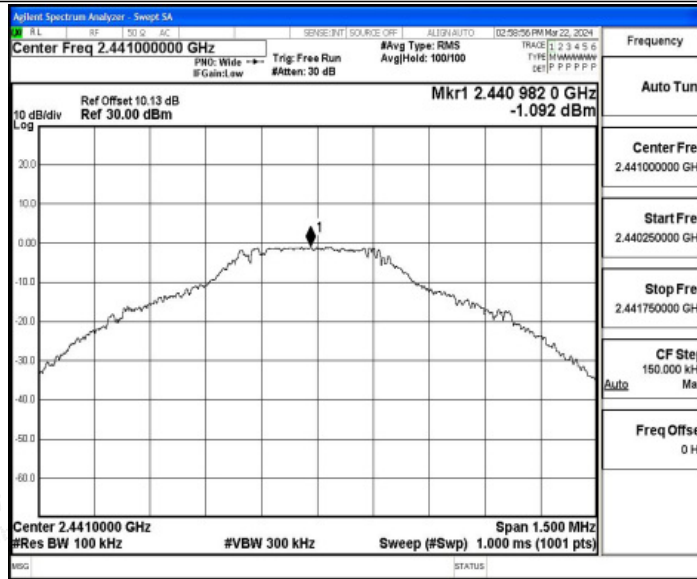


Test Graphs

DH5\_Ant1\_2402

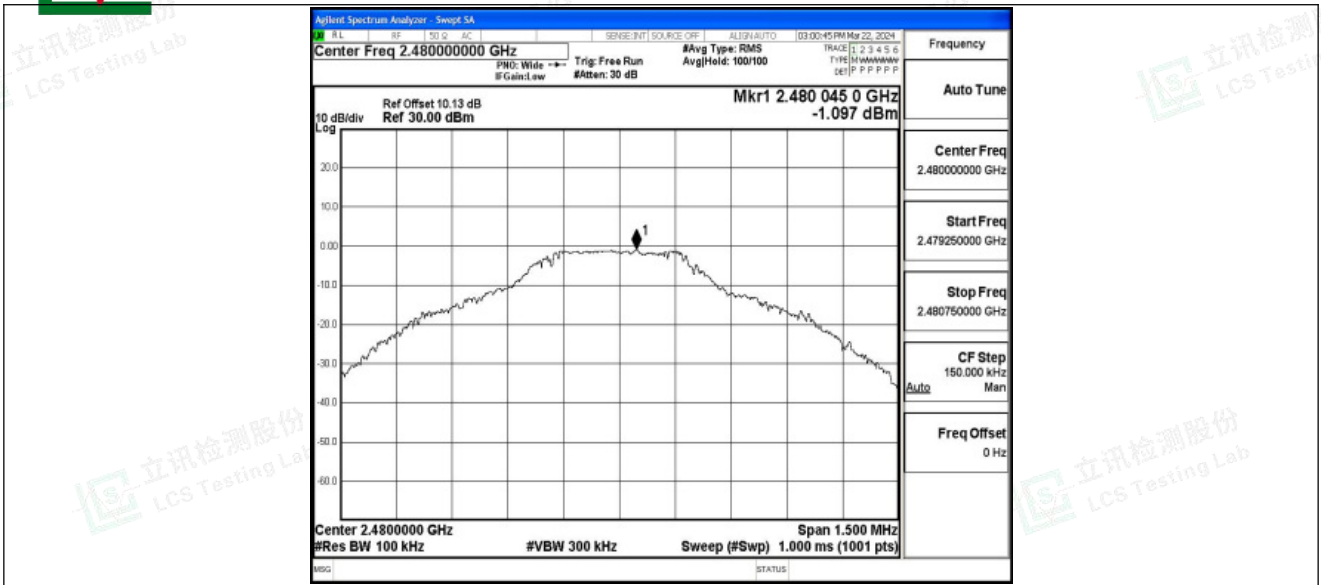


DH5\_Ant1\_2441

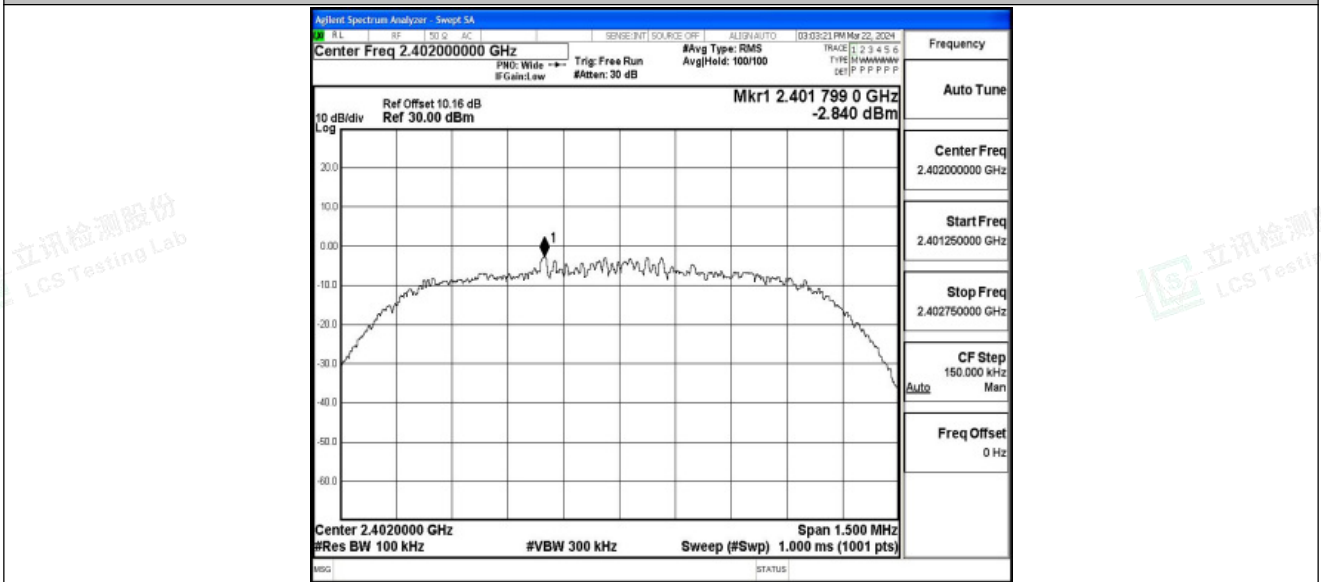


DH5\_Ant1\_2480



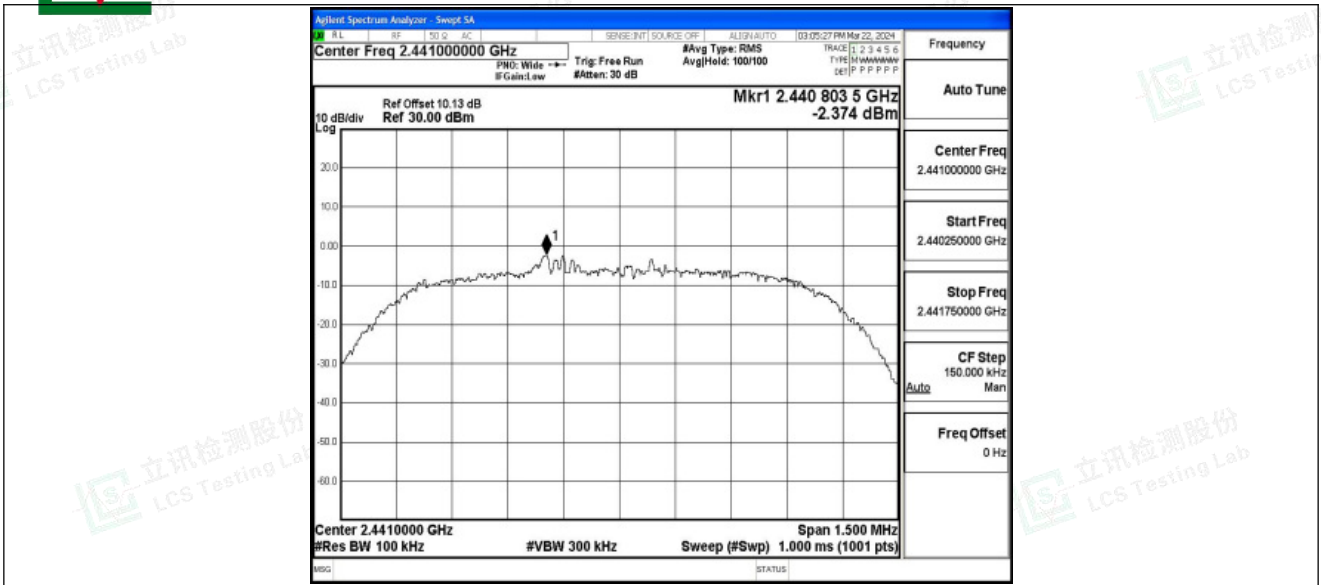


2DH5\_Ant1\_2402

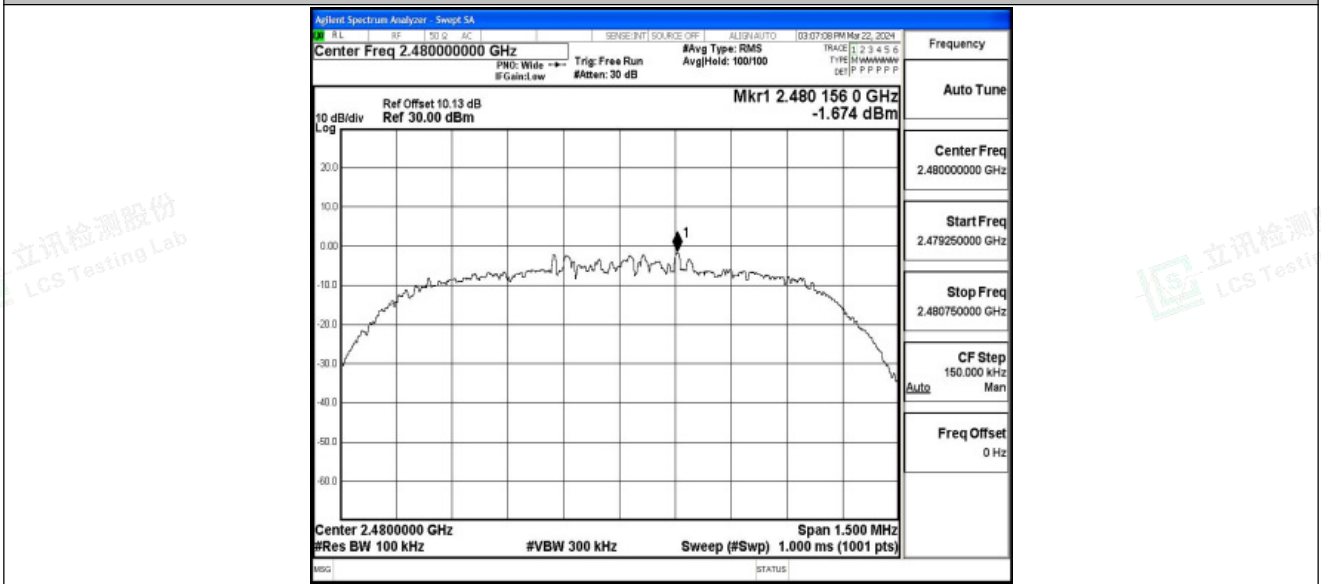


2DH5\_Ant1\_2441





2DH5\_Ant1\_2480





## A.6 Band edge measurements

### Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.30	-49.19	$\leq -21.3$	PASS
		High	2480	-1.10	-48.39	$\leq -21.1$	PASS
		Low	Hop_2402	-1.43	-47.74	$\leq -21.43$	PASS
		High	Hop_2480	-0.39	-47.7	$\leq -20.39$	PASS
2DH5	Ant1	Low	2402	-2.84	-49.22	$\leq -22.84$	PASS
		High	2480	-1.67	-48.6	$\leq -21.67$	PASS
		Low	Hop_2402	-4.41	-47.55	$\leq -24.41$	PASS
		High	Hop_2480	-3.50	-46.87	$\leq -23.5$	PASS

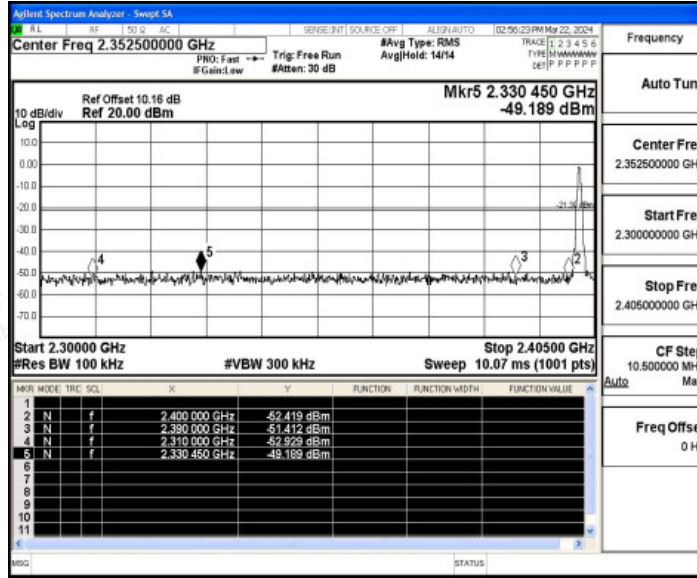




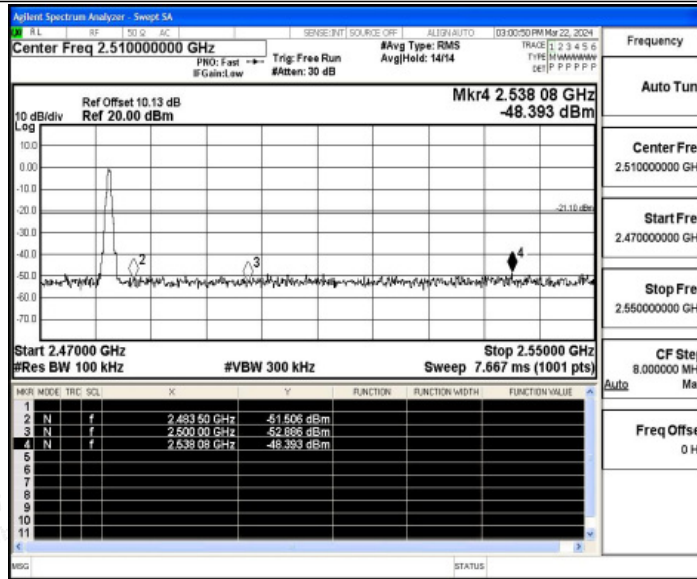


Test Graphs

DH5\_Ant1\_Low\_2402

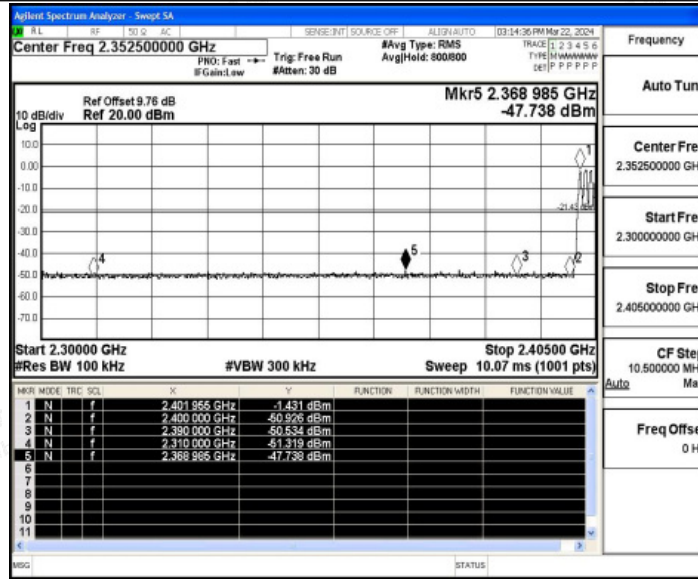


DH5\_Ant1\_High\_2480

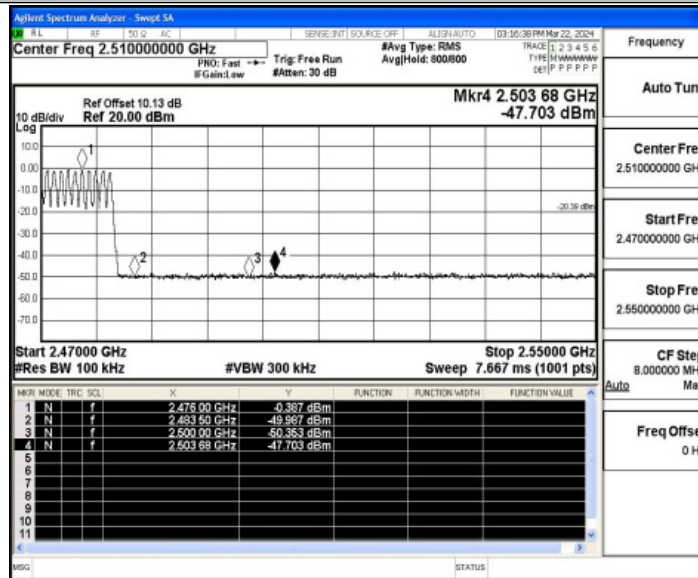


DH5\_Ant1\_Low\_Hop\_2402



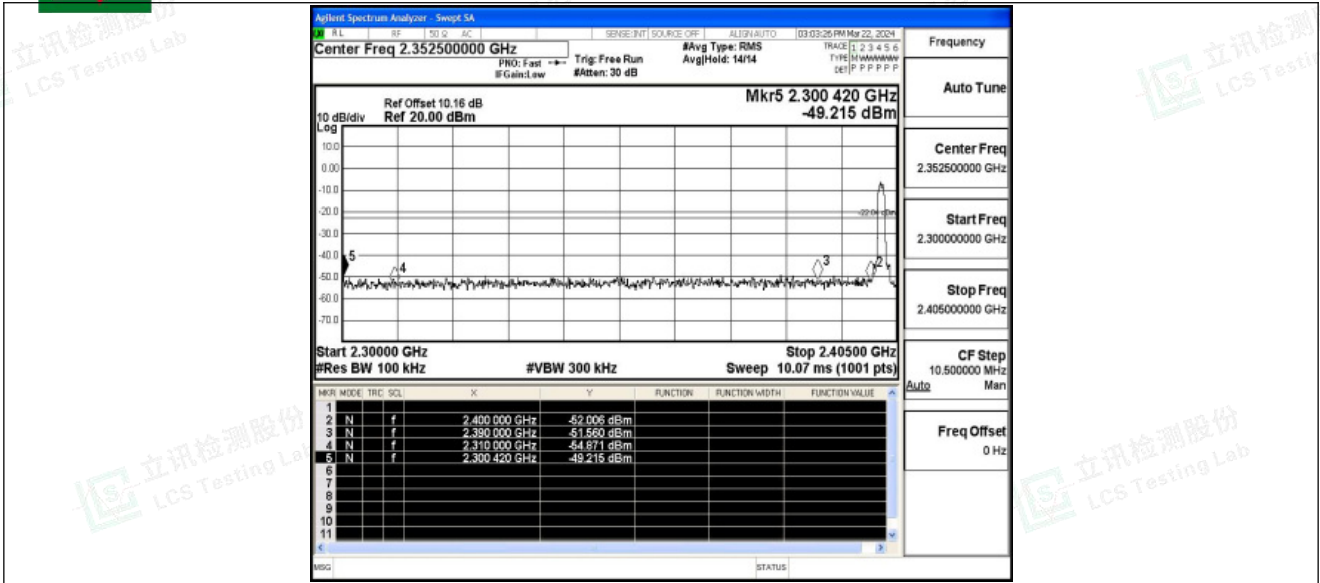


DH5\_Ant1\_High\_Hop\_2480

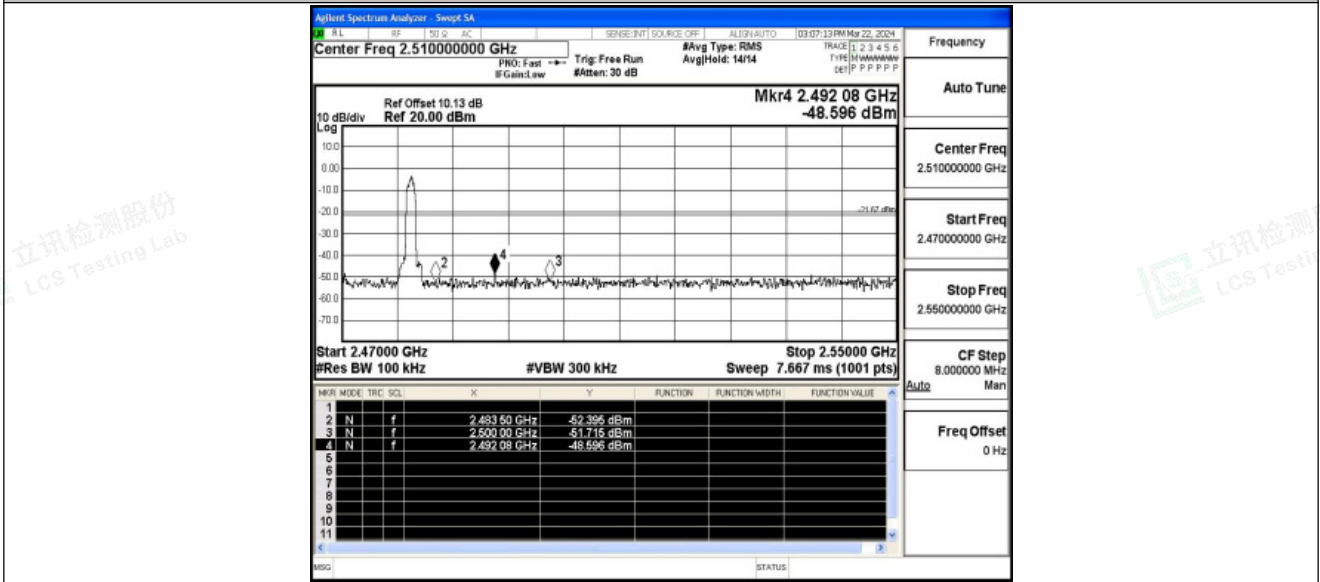


2DH5\_Ant1\_Low\_2402



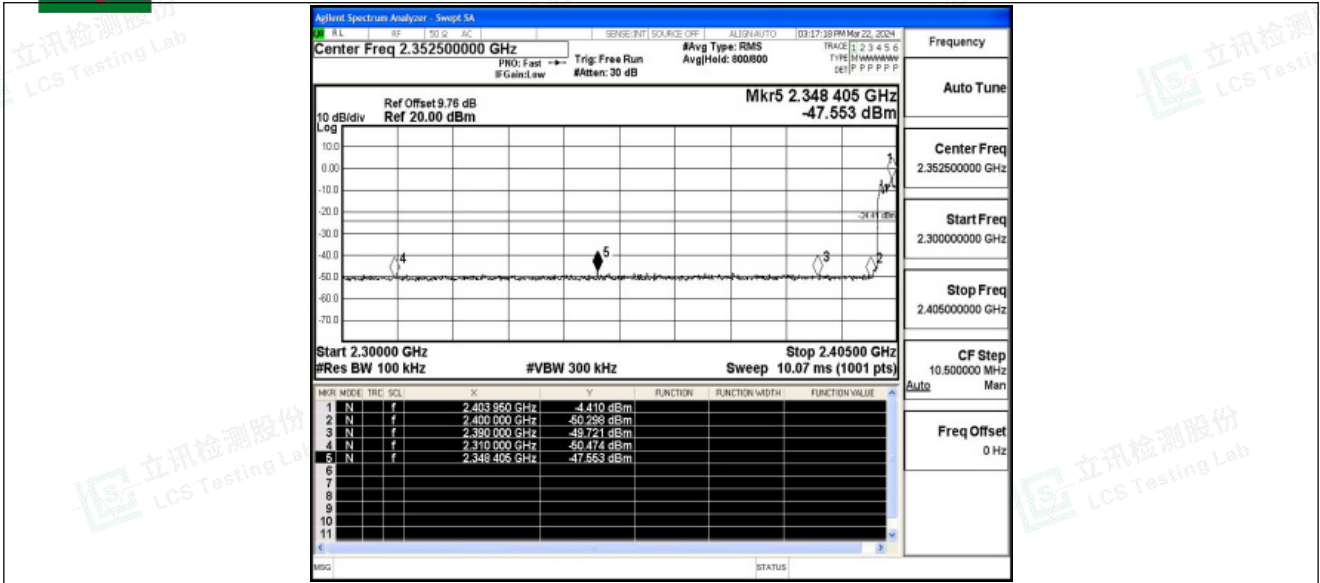


2DH5\_Ant1\_High\_2480

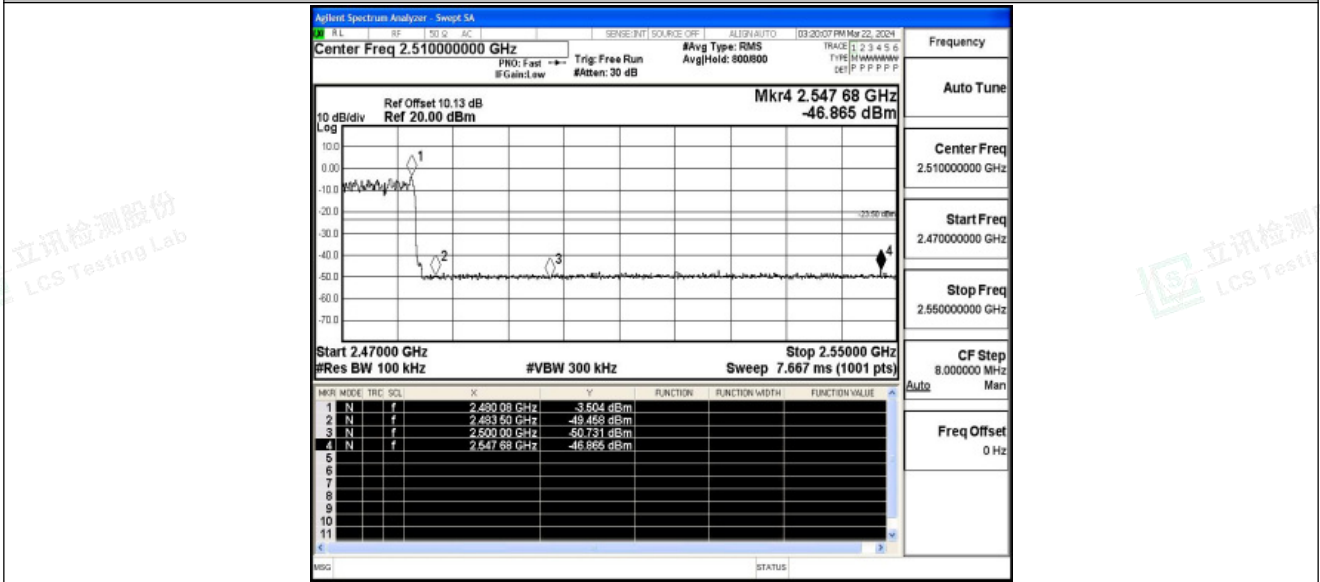


2DH5\_Ant1\_Low\_Hop\_2402





2DH5\_Ant1\_High\_Hop\_2480





### A.7 Conducted Spurious Emission

#### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	-1.30	-59.79	≤-21.3	PASS
			1000~26500	-1.30	-47.02	≤-21.3	PASS
		2441	30~1000	-1.09	-59.85	≤-21.09	PASS
			1000~26500	-1.09	-46.43	≤-21.09	PASS
		2480	30~1000	-1.10	-59.44	≤-21.1	PASS
			1000~26500	-1.10	-46.13	≤-21.1	PASS
2DH5	Ant1	2402	30~1000	-2.84	-59.71	≤-22.84	PASS
			1000~26500	-2.84	-46.76	≤-22.84	PASS
		2441	30~1000	-2.37	-59.5	≤-22.37	PASS
			1000~26500	-2.37	-46.77	≤-22.37	PASS
		2480	30~1000	-1.67	-59.84	≤-21.67	PASS
			1000~26500	-1.67	-47	≤-21.67	PASS

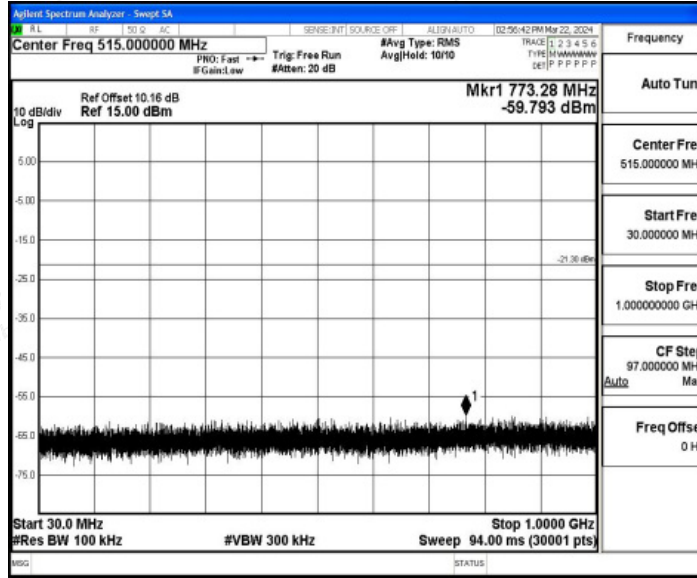




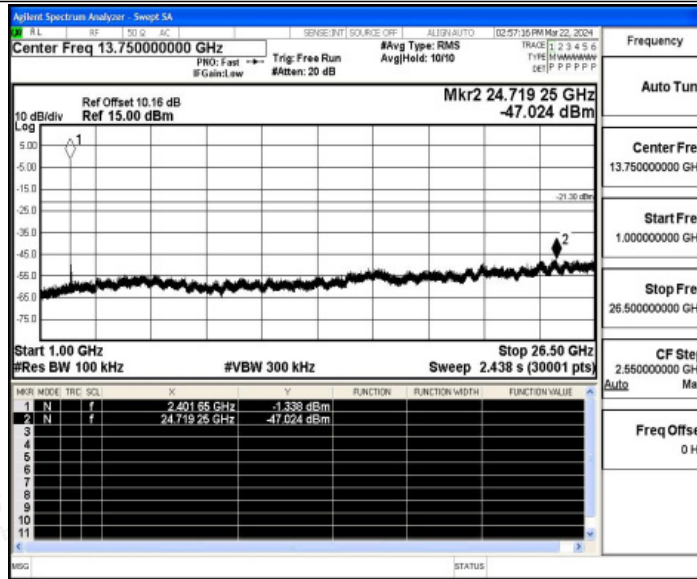


Test Graphs

DH5\_Ant1\_2402\_30~1000



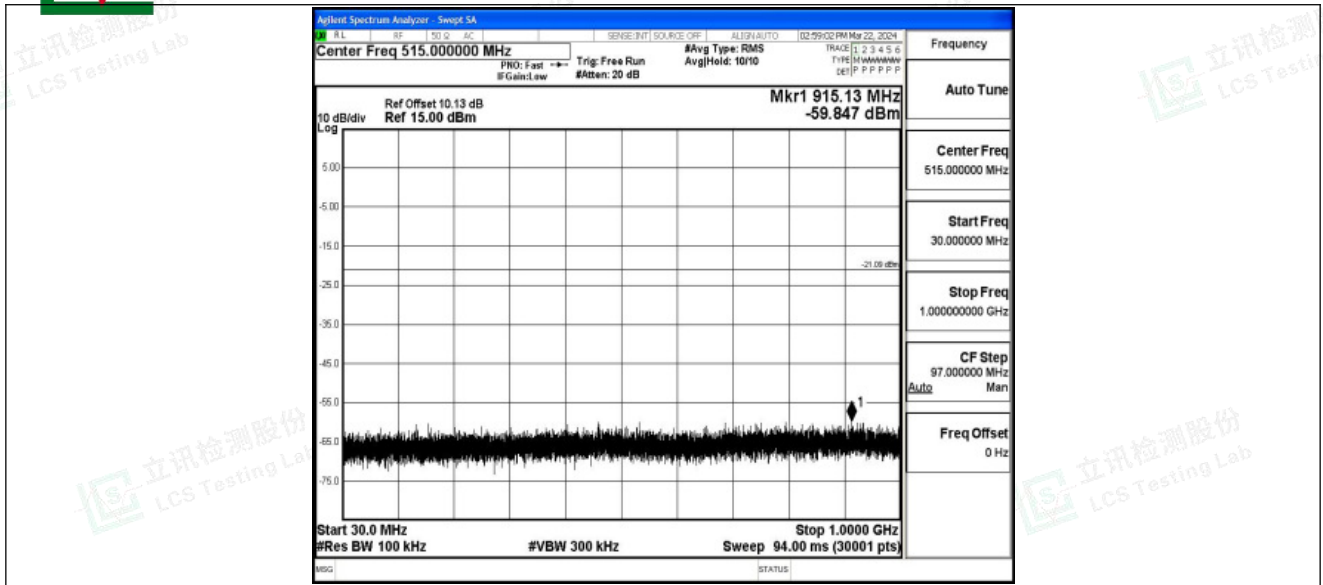
DH5\_Ant1\_2402\_1000~26500



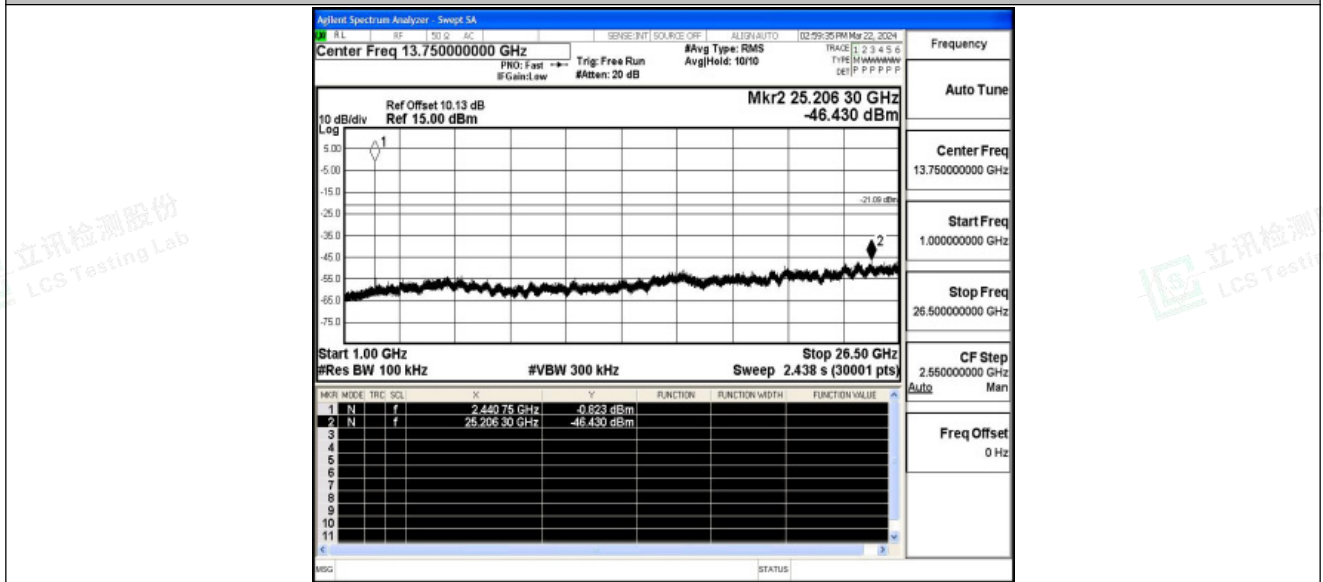
DH5\_Ant1\_2441\_30~1000





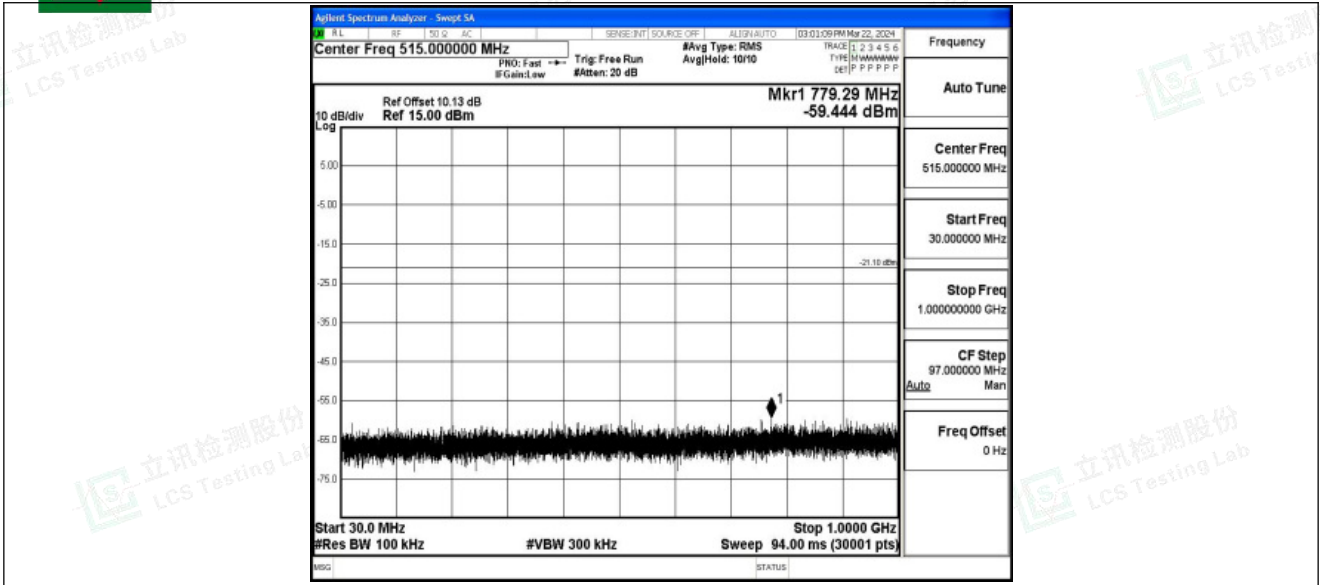


DH5\_Ant1\_2441\_1000~26500

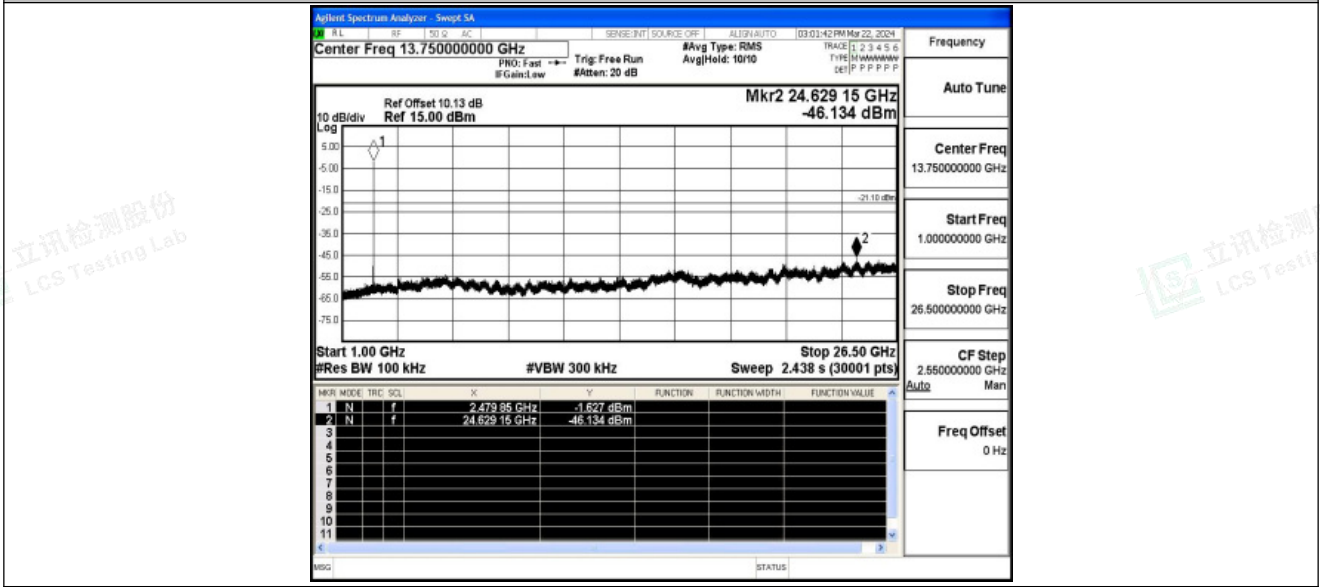


DH5\_Ant1\_2480\_30~1000



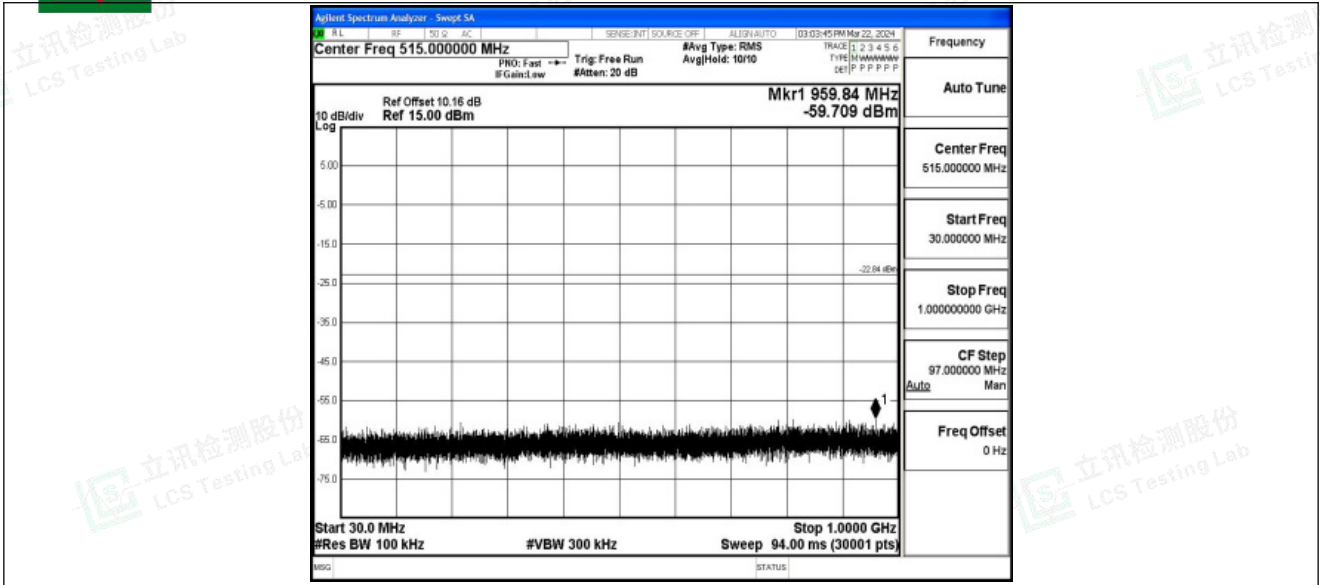


DH5\_Ant1\_2480\_1000~26500

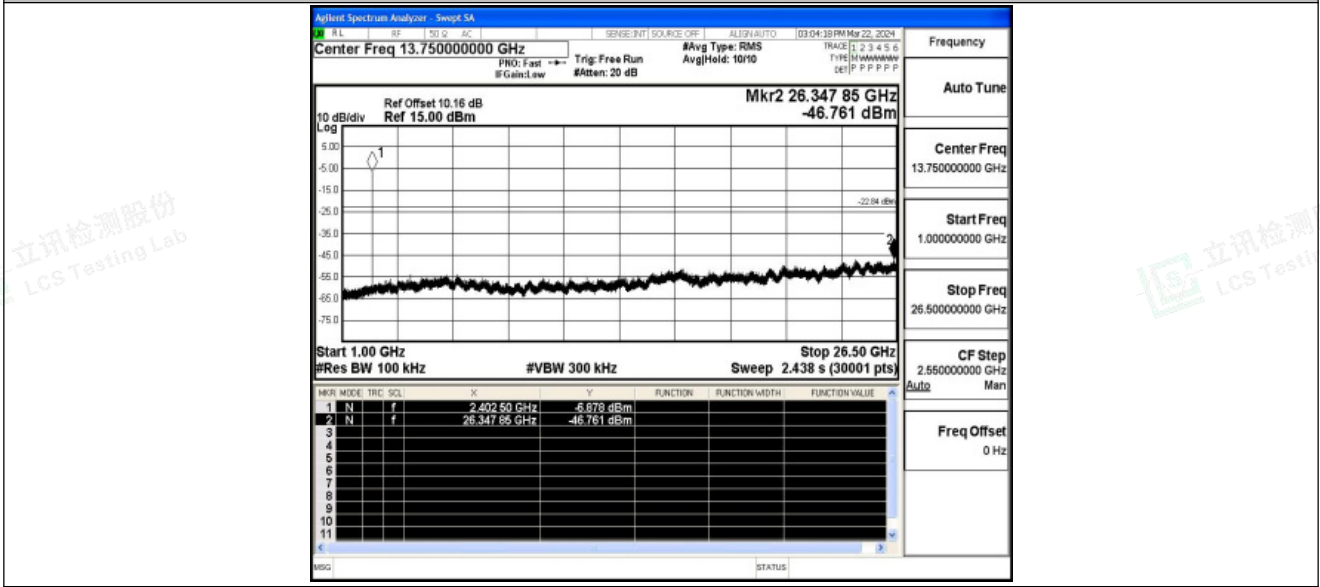


2DH5\_Ant1\_2402\_30~1000



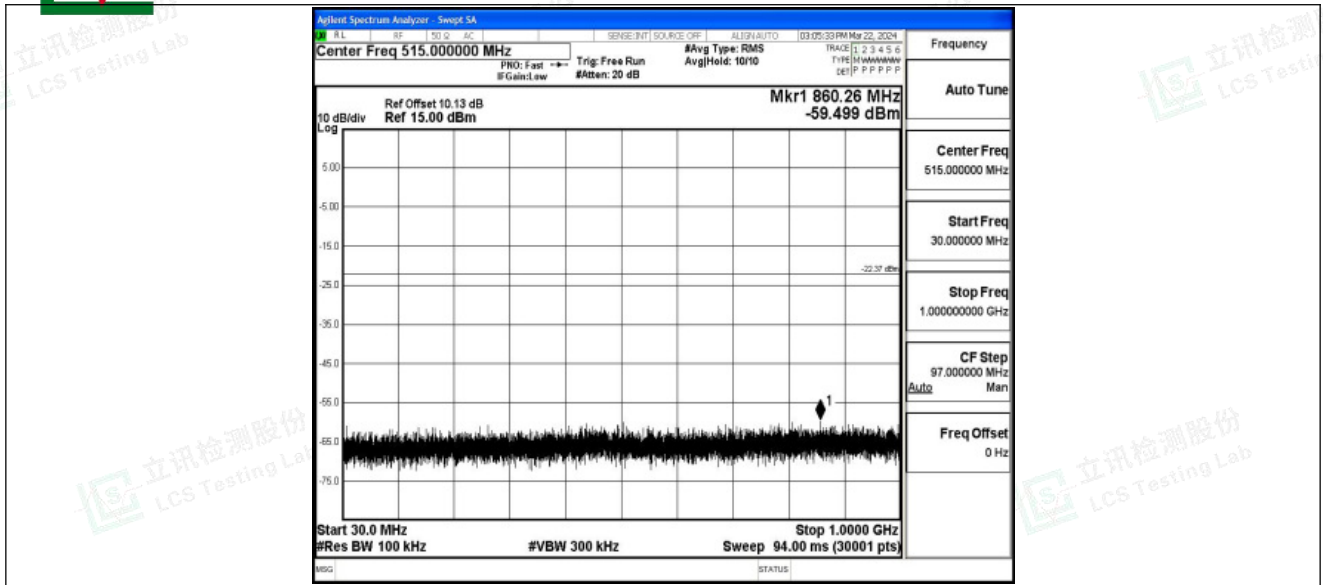


2DH5\_Ant1\_2402\_1000~26500

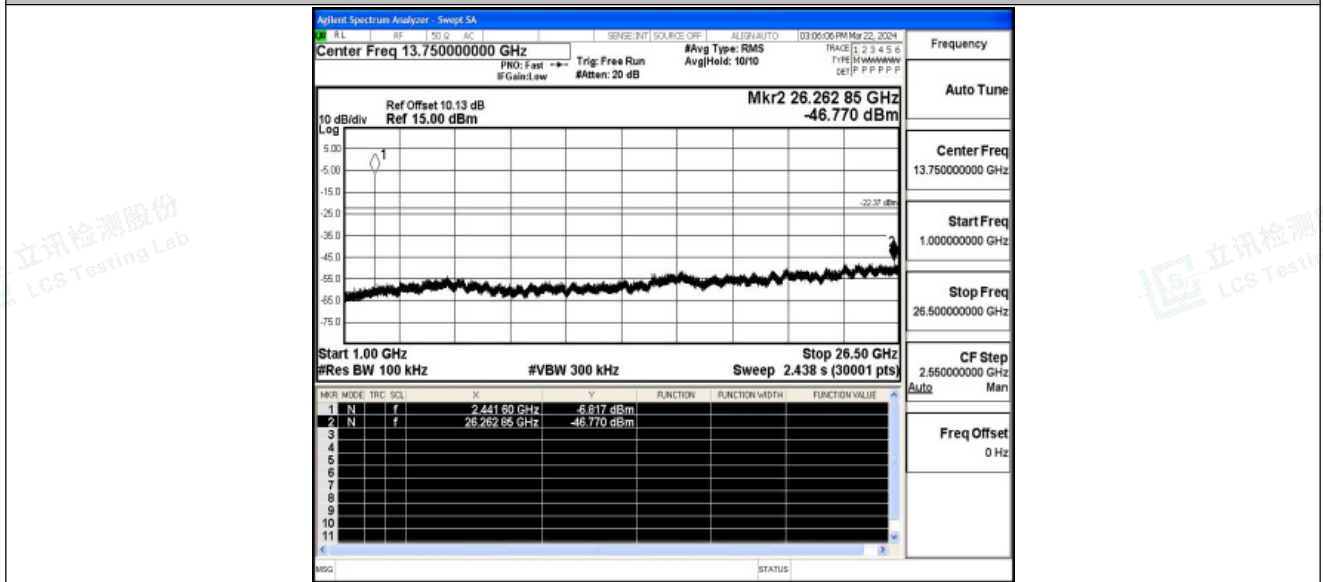


2DH5\_Ant1\_2441\_30~1000



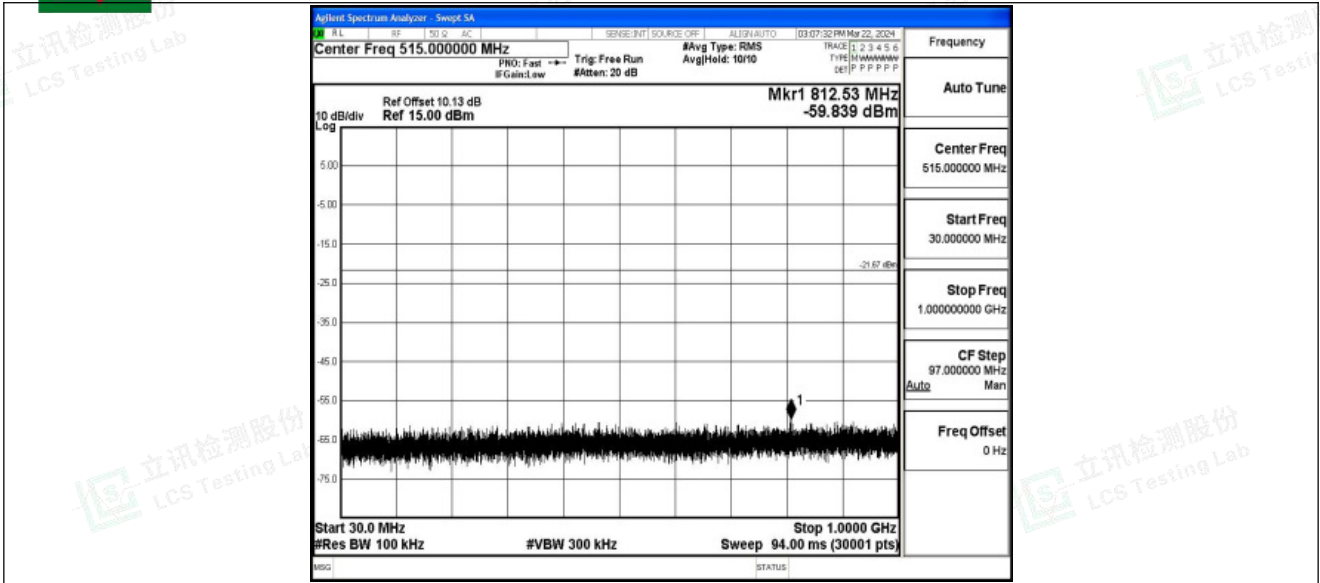


2DH5\_Ant1\_2441\_1000~26500

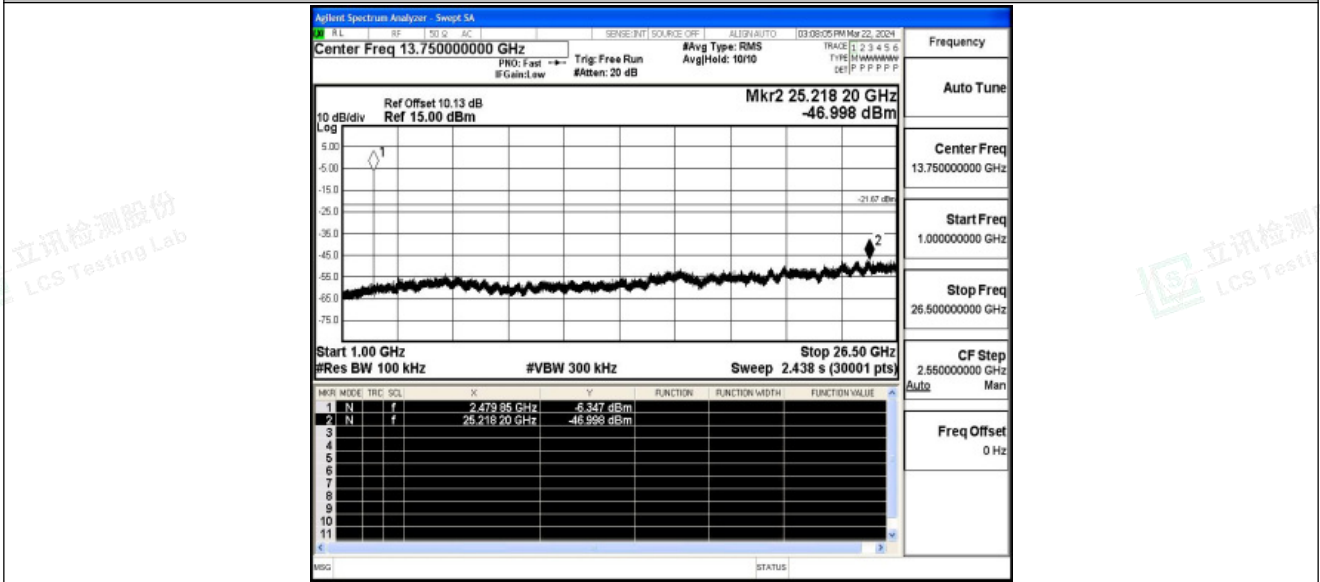


2DH5\_Ant1\_2480\_30~1000





2DH5\_Ant1\_2480\_1000~26500







# A.8 Duty Cycle

## Test Result

TestMode	Antenna	Frequency[M Hz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[kHz]
DH5	Ant1	2402	2.88	3.75	76.80	1.15	0.35
		2441	2.88	3.75	76.80	1.15	0.35
		2480	2.88	3.75	76.80	1.15	0.35
2DH5	Ant1	2402	2.89	3.75	77.07	1.13	0.35
		2441	2.89	3.75	77.07	1.13	0.35
		2480	2.89	3.75	77.07	1.13	0.35

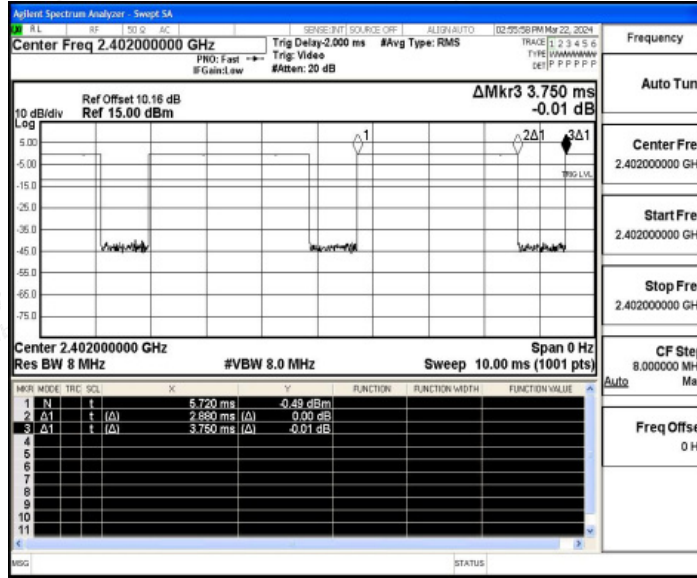




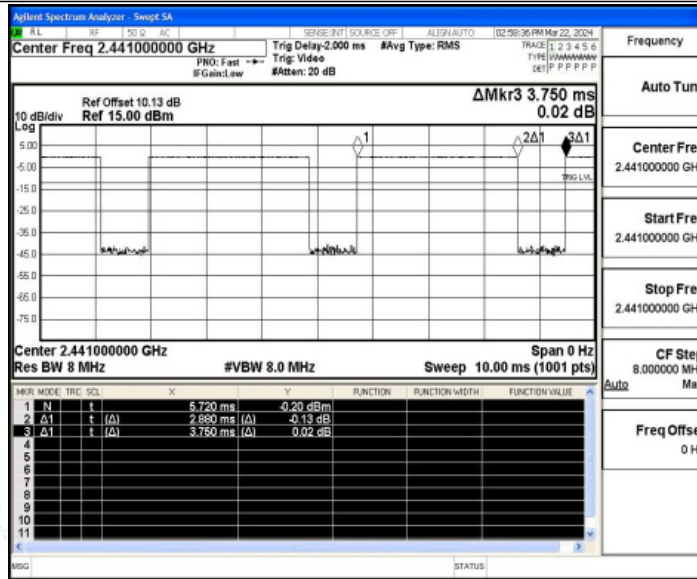


### Test Graphs

#### DH5\_Ant1\_2402

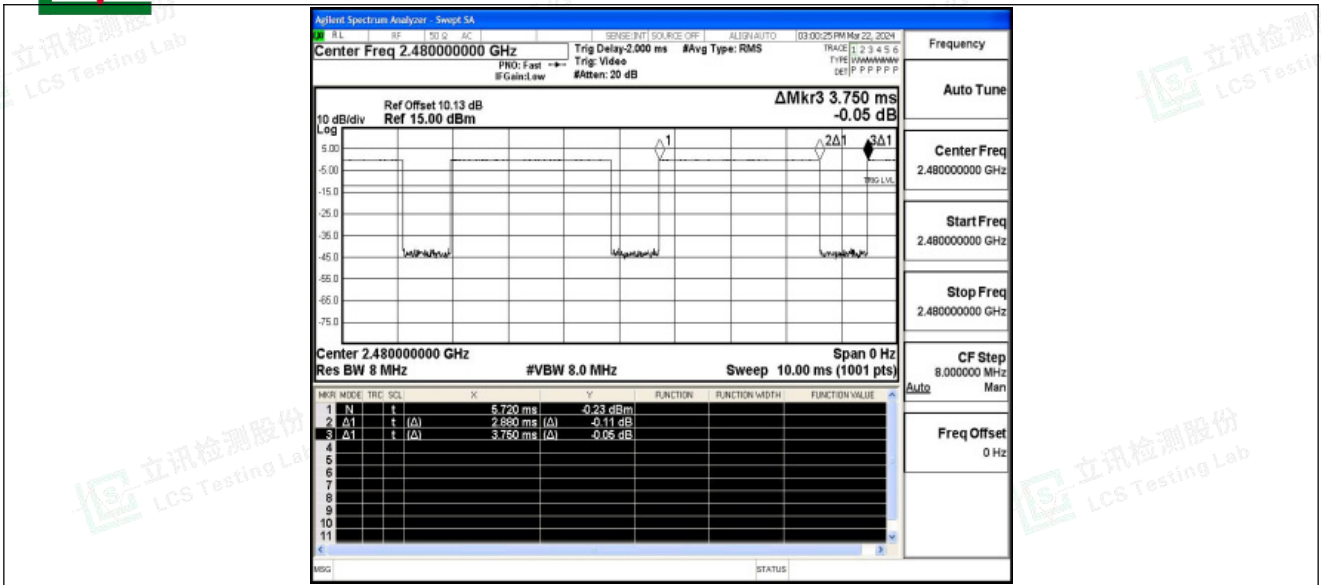


#### DH5\_Ant1\_2441

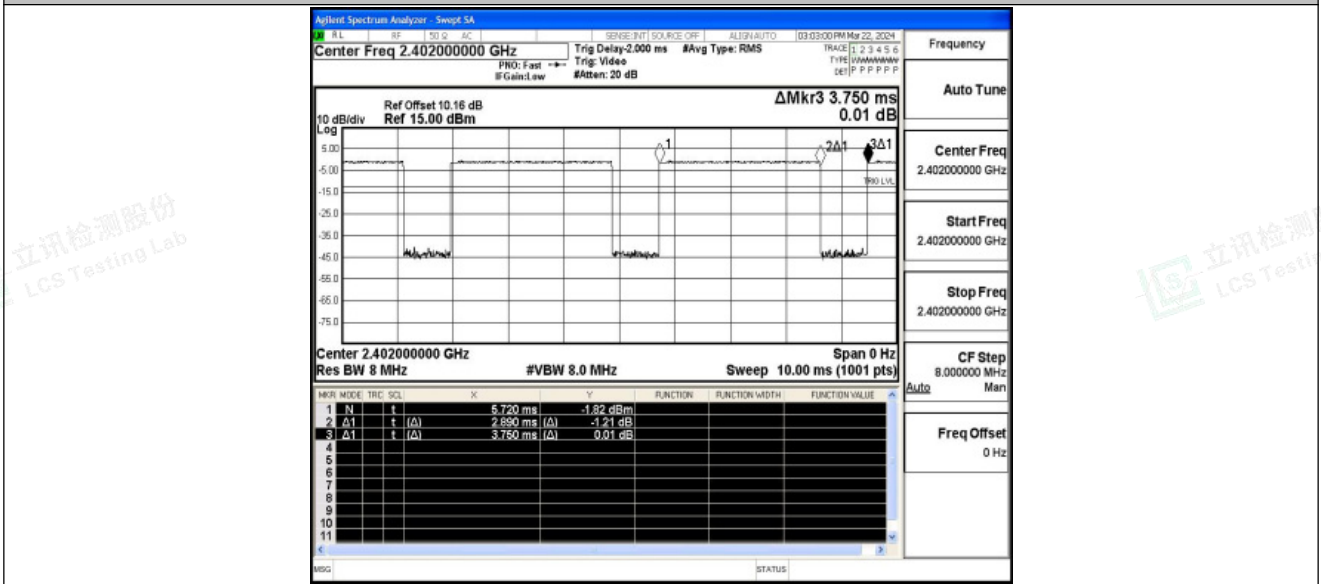


#### DH5\_Ant1\_2480



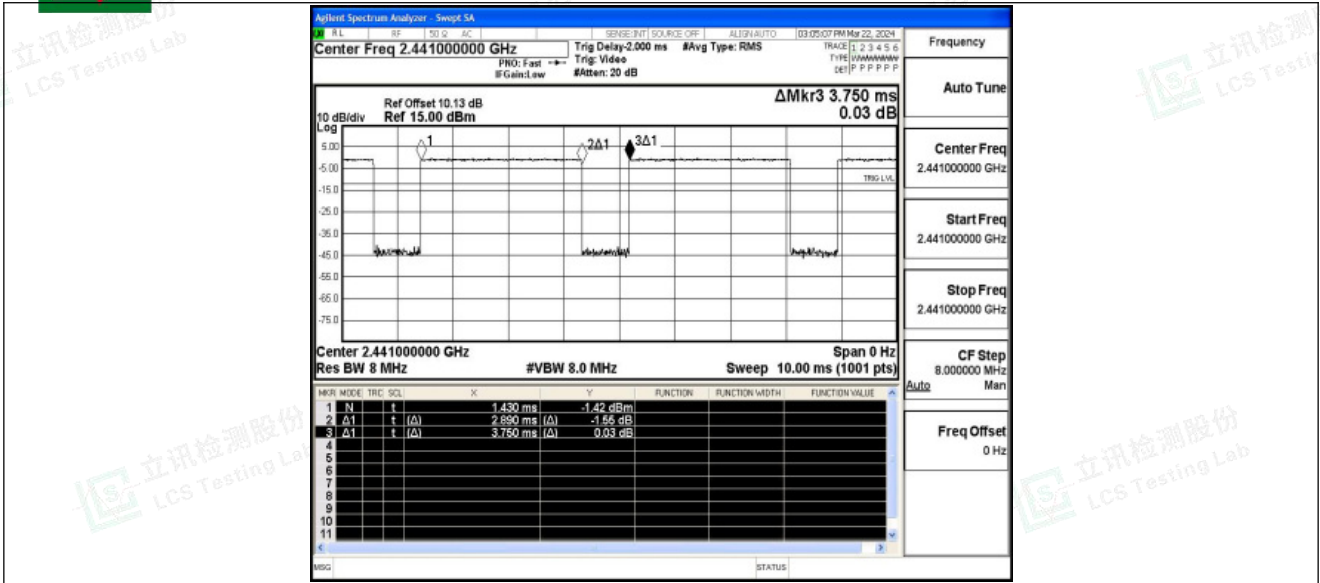


2DH5\_Ant1\_2402

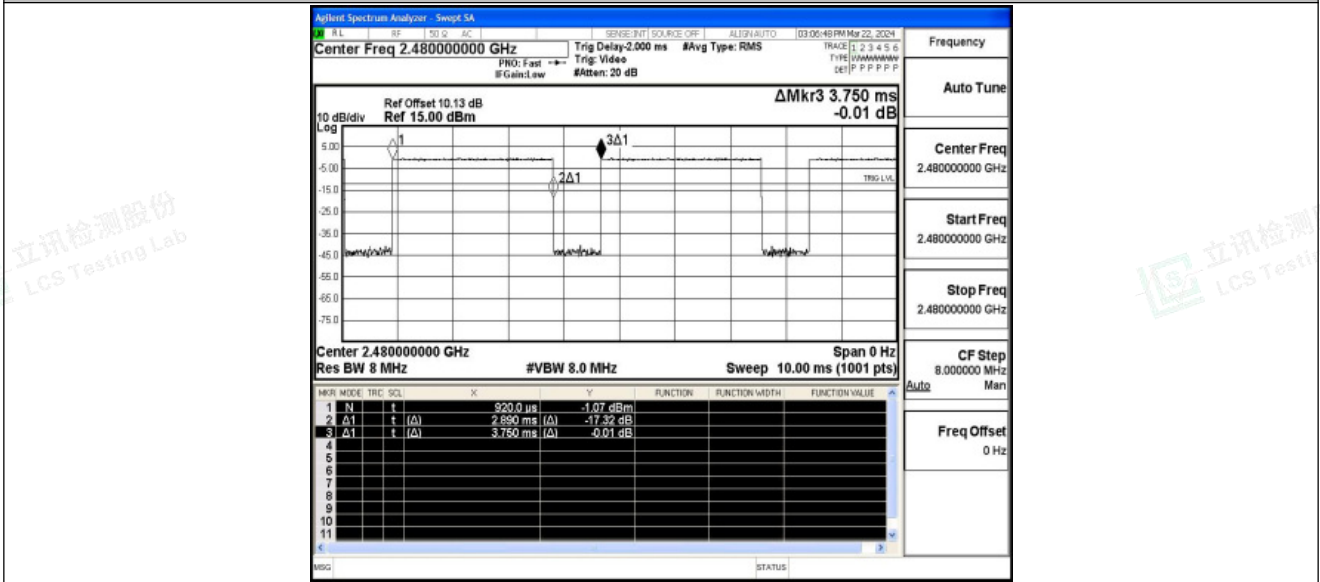


2DH5\_Ant1\_2441





2DH5\_Ant1\_2480





## A.9 Emissions in Restricted Bands

### Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-46.67	≤-41.20	48.53	≤54	PASS
				AV	2388.935	-45.64	≤-41.20	49.56	≤54	PASS
				AV	2390.000	-46.42	≤-41.20	48.78	≤54	PASS
				Peak	2310.000	-40.09	≤-21.20	55.11	≤74	PASS
				Peak	2389.880	-36.01	≤-21.20	59.19	≤74	PASS
				Peak	2390.000	-40.36	≤-21.20	54.84	≤74	PASS
		High	2480	AV	2483.500	-46.53	≤-41.20	48.67	≤54	PASS
				AV	2496.480	-45.64	≤-41.20	49.56	≤54	PASS
				AV	2500.000	-46.44	≤-41.20	48.76	≤54	PASS
				Peak	2483.500	-38.15	≤-21.20	57.05	≤74	PASS
				Peak	2490.880	-37.06	≤-21.20	58.14	≤74	PASS
				Peak	2500.000	-38.34	≤-21.20	56.86	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-46.77	≤-41.20	48.43	≤54	PASS
				AV	2380.850	-45.8	≤-41.20	49.40	≤54	PASS
				AV	2390.000	-46.92	≤-41.20	48.28	≤54	PASS
				Peak	2310.000	-40.76	≤-21.20	54.44	≤74	PASS
				Peak	2378.015	-36.12	≤-21.20	59.08	≤74	PASS
				Peak	2390.000	-39.84	≤-21.20	55.36	≤74	PASS
		High	2480	AV	2483.500	-46.86	≤-41.20	48.34	≤54	PASS
				AV	2495.840	-45.63	≤-41.20	49.57	≤54	PASS
				AV	2500.000	-46.47	≤-41.20	48.73	≤54	PASS
				Peak	2483.500	-38.71	≤-21.20	56.49	≤74	PASS
				Peak	2495.680	-36.99	≤-21.20	58.21	≤74	PASS
				Peak	2500.000	-39.35	≤-21.20	55.85	≤74	PASS

**Note:**

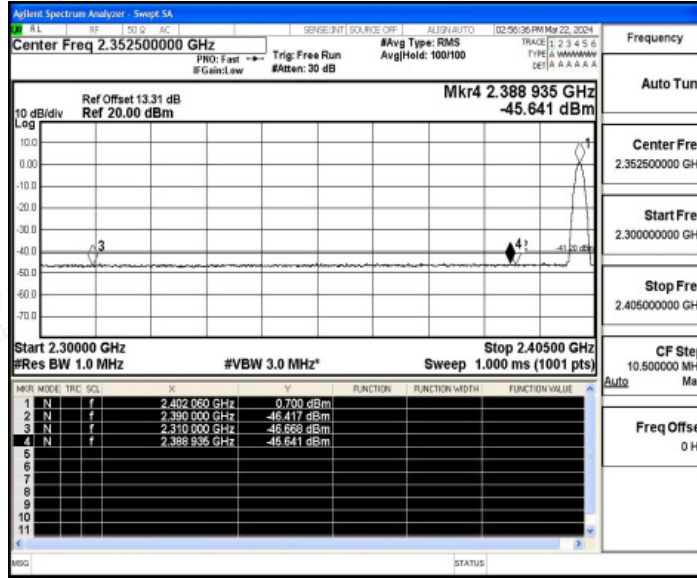
1. The Antenna Gain is compensated in the graph. The Correction Factor is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



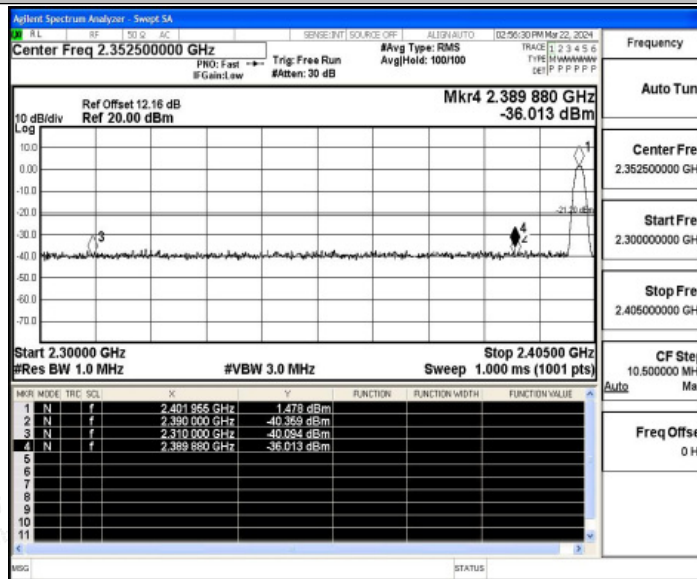


### Test Graphs

#### DH5\_Ant1\_Low\_2402\_AV



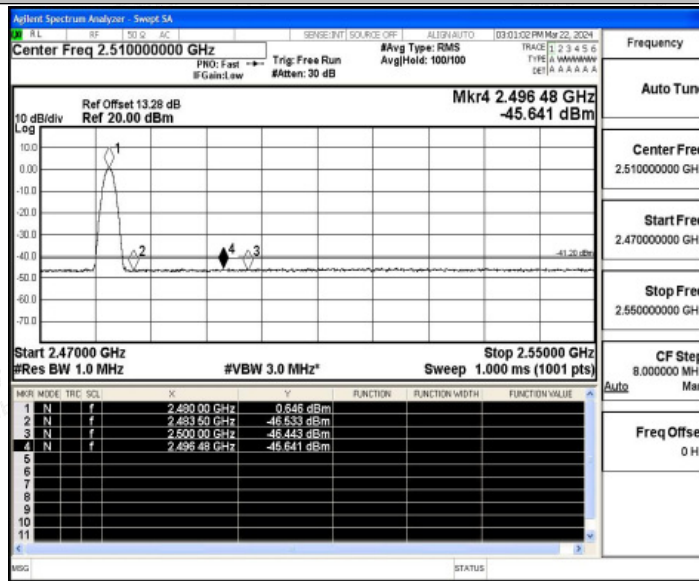
#### DH5\_Ant1\_Low\_2402\_Peak



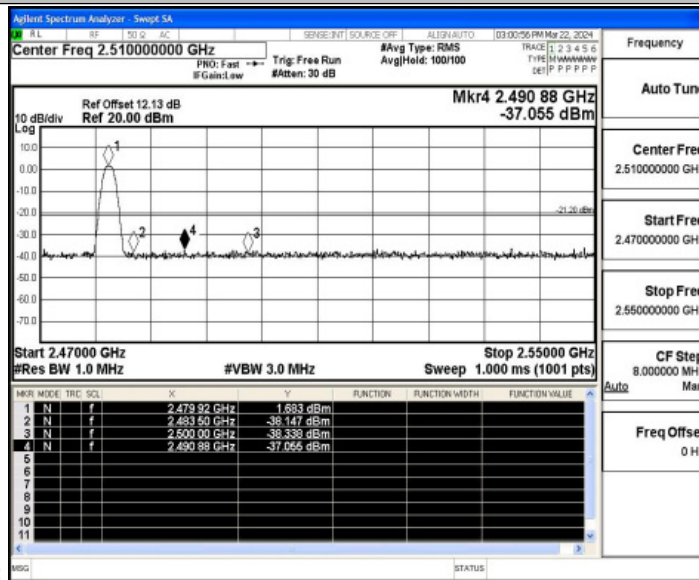




DH5\_Ant1\_High\_2480\_AV

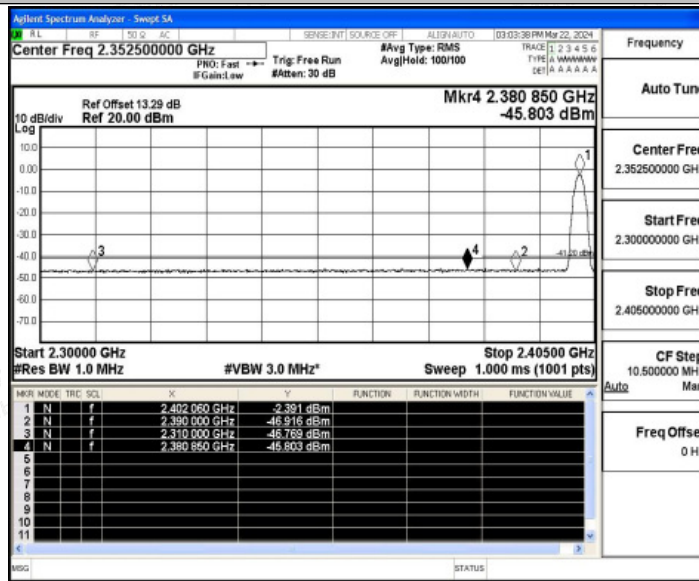


DH5\_Ant1\_High\_2480\_Peak

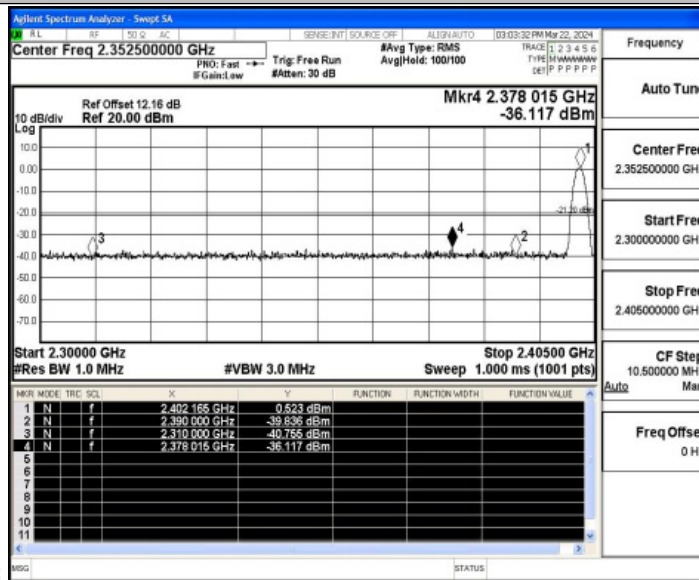




2DH5\_Ant1\_Low\_2402\_AV



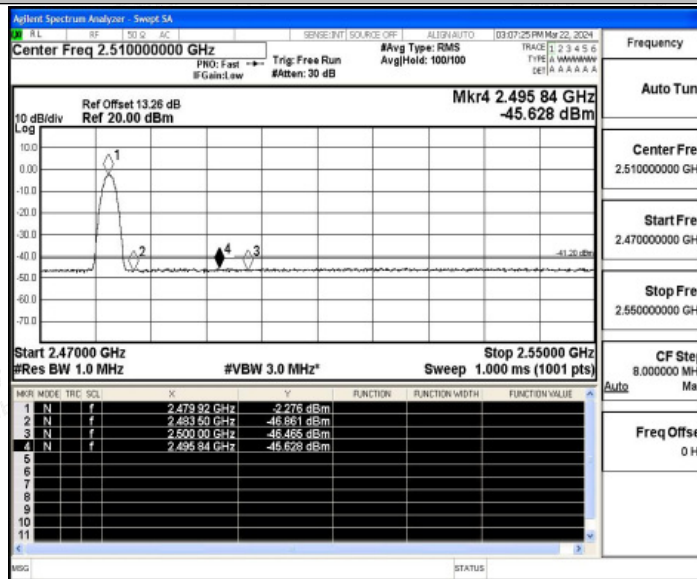
2DH5\_Ant1\_Low\_2402\_Peak







2DH5\_Ant1\_High\_2480\_AV



2DH5\_Ant1\_High\_2480\_Peak

