



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: LED shower system

Test Model: 66714746

Environmental Conditions

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





A.1 20dB Emission Bandwidth

Test Result

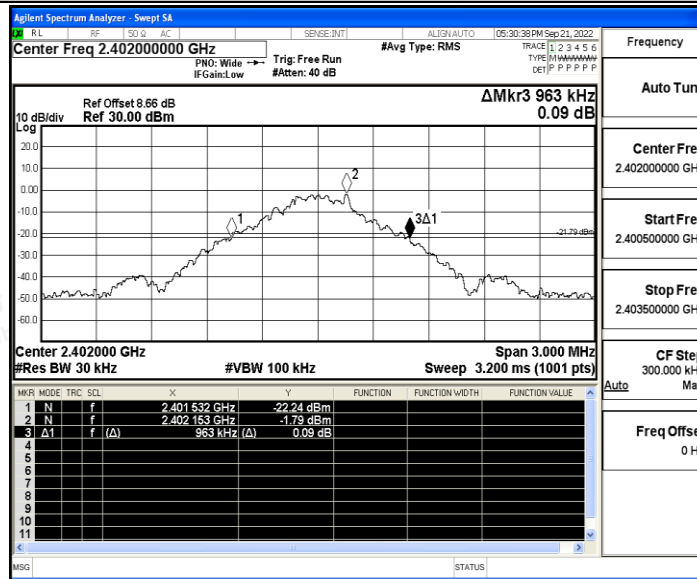
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.532	2402.495	---
		2441	1.029	2440.457	2441.486	---
		2480	1.038	2479.448	2480.486	---
2DH5	Ant1	2402	1.320	2401.325	2402.645	---
		2441	1.287	2440.352	2441.639	---
		2480	1.293	2479.349	2480.642	---



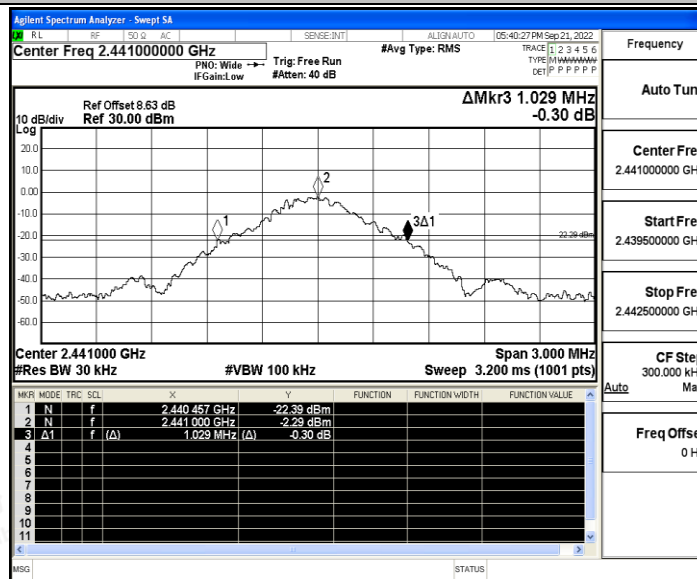


Test Graphs

DH5_Ant1_2402

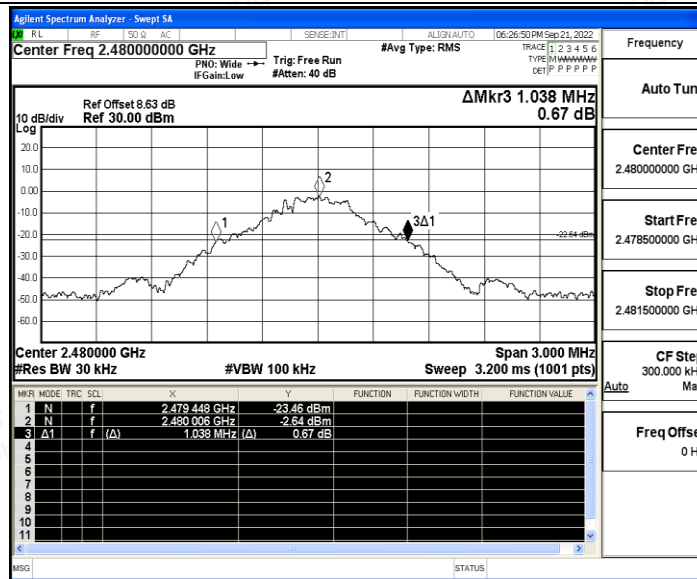


DH5_Ant1_2441

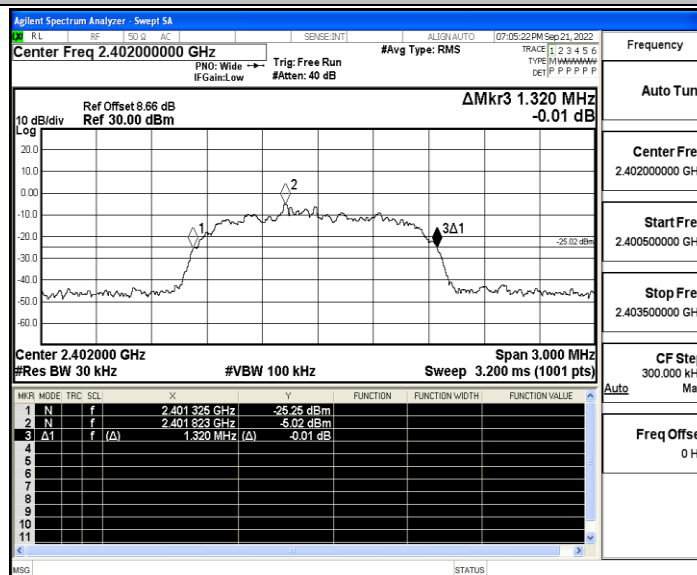


DH5_Ant1_2480



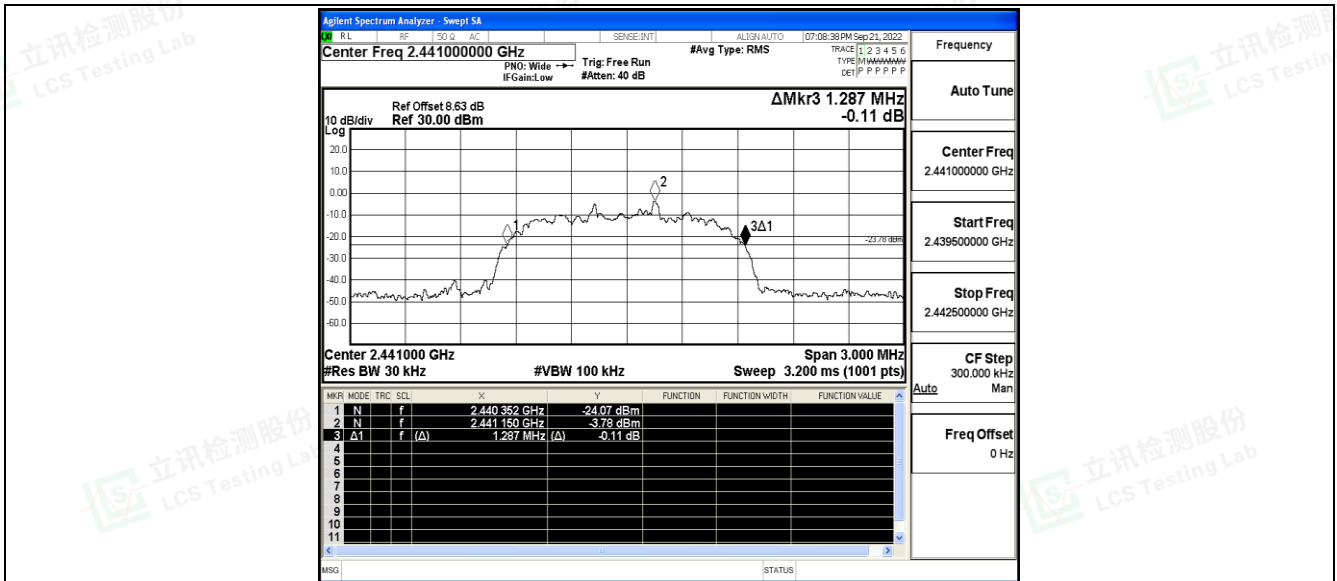


2DH5_Ant1_2402

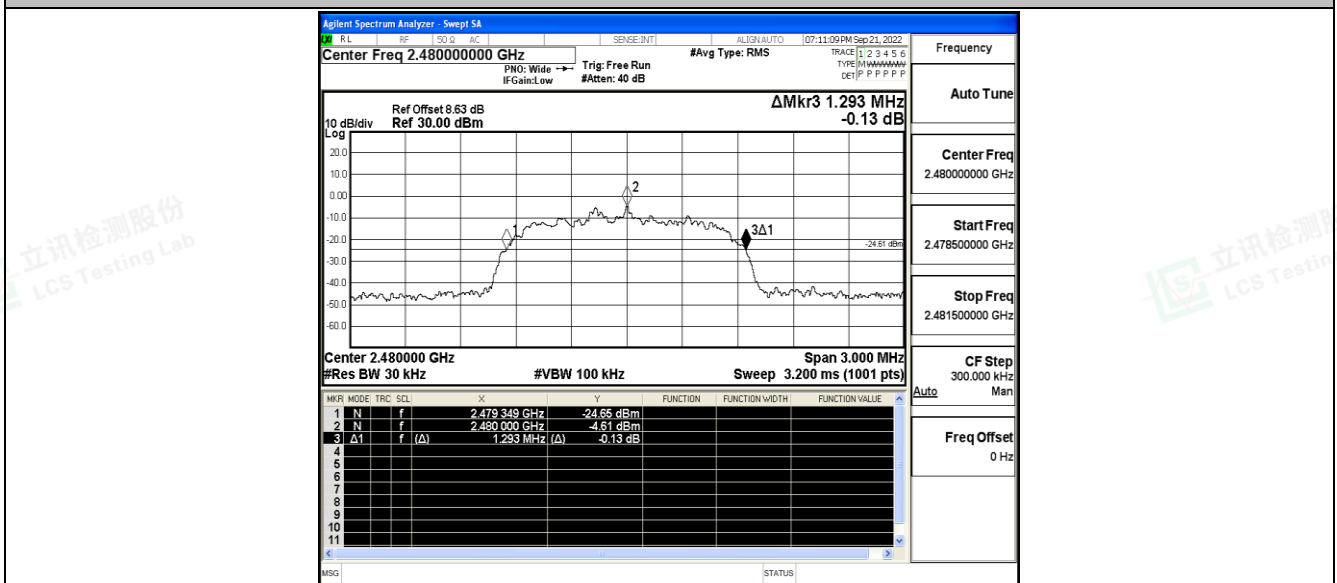


2DH5_Ant1_2441





2DH5_Ant1_2480



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A.2 Maximum conducted output power

Test Result

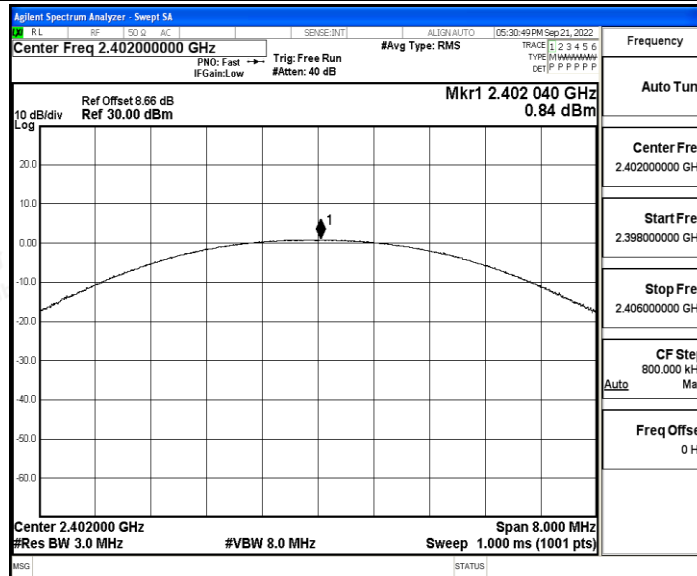
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.84	≤20.97	PASS
		2441	0.75	≤20.97	PASS
		2480	0.55	≤20.97	PASS
2DH5	Ant1	2402	0.27	≤20.97	PASS
		2441	0.23	≤20.97	PASS
		2480	0.19	≤20.97	PASS



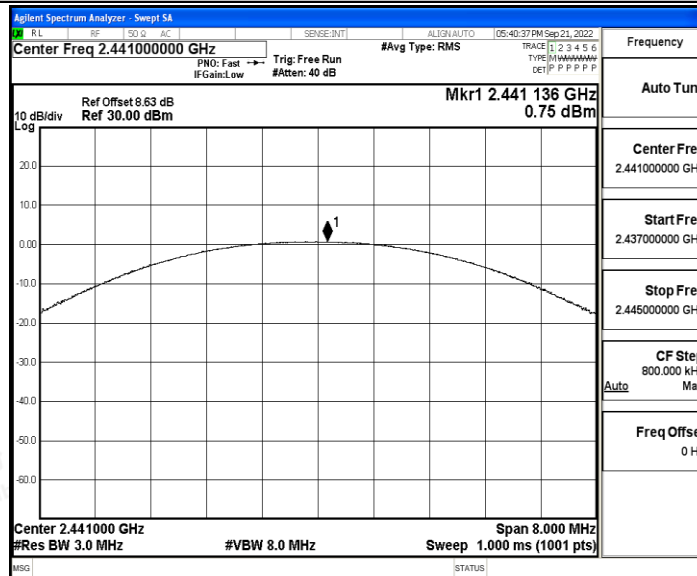


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

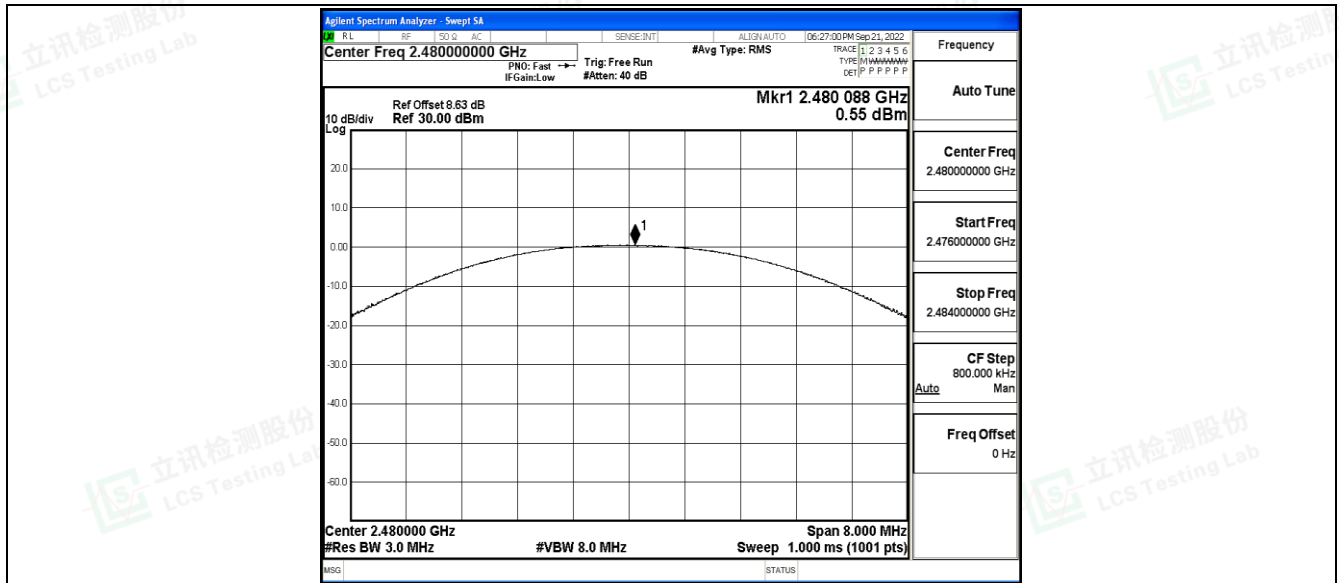


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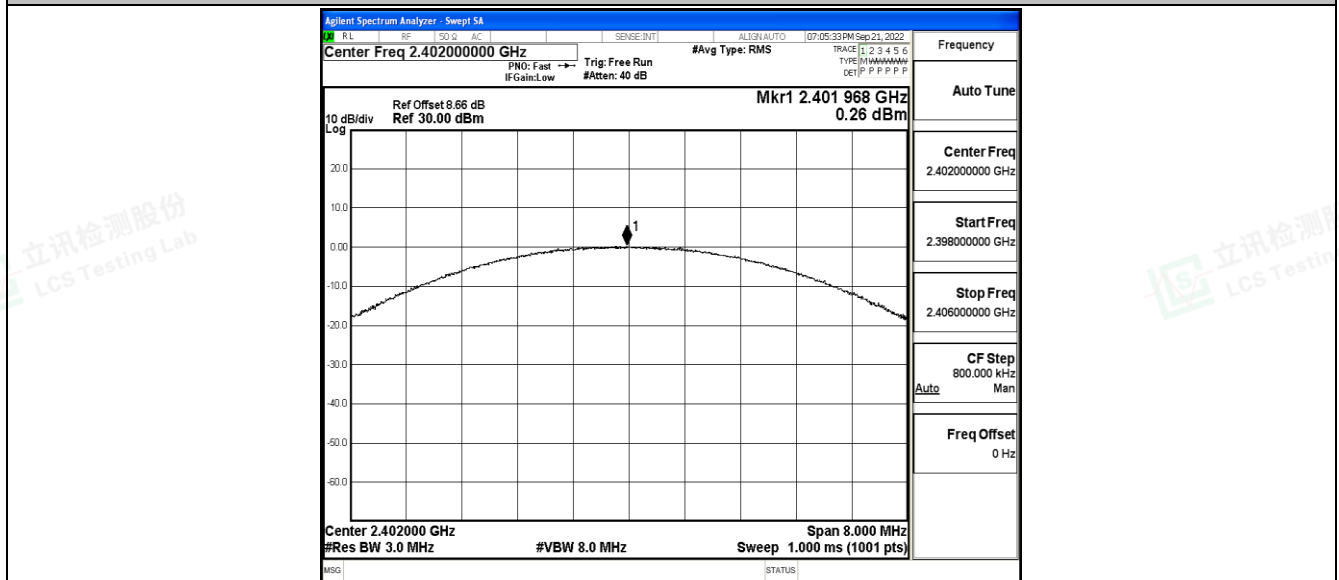
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2DH5_Ant1_2402



2DH5_Ant1_2441

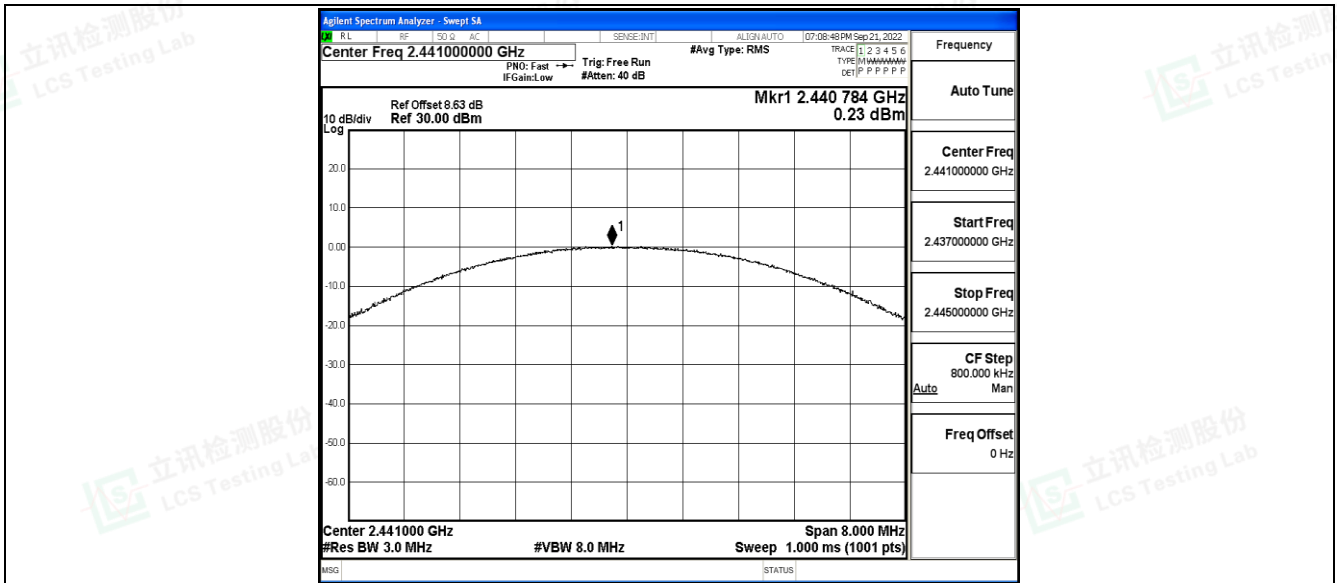


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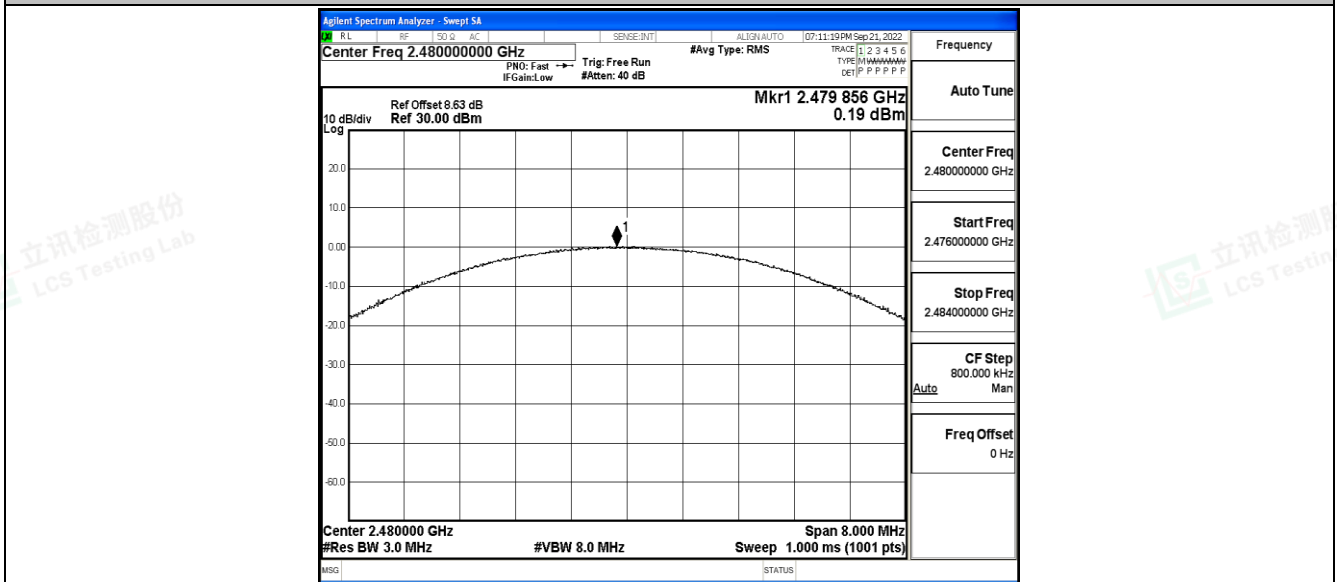
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2DH5_Ant1_2480





A.3 Carrier frequency separation

Test Result

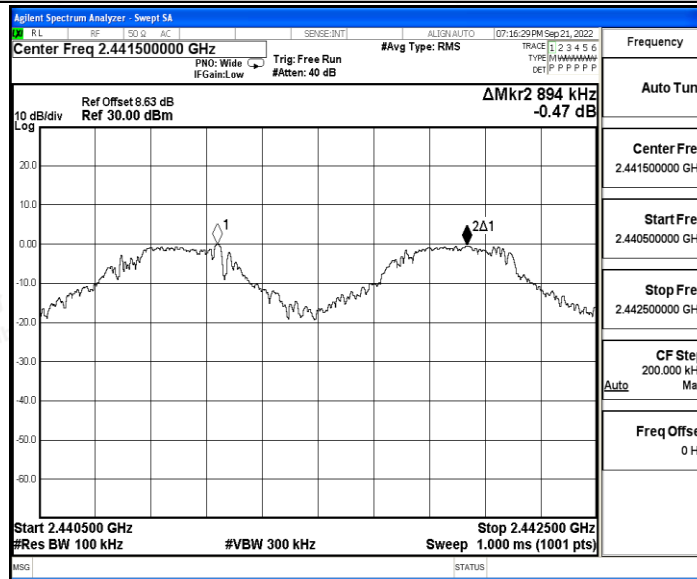
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.894	≥0.692	PASS
2DH5	Ant1	Hop	0.998	≥0.880	PASS



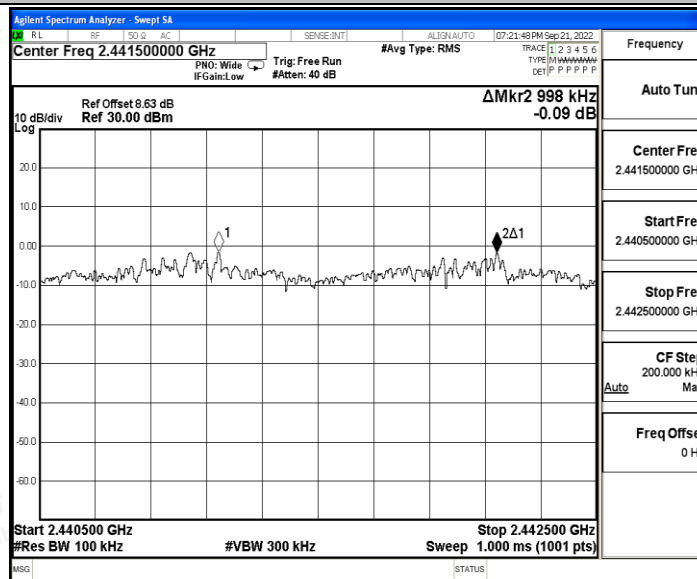


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



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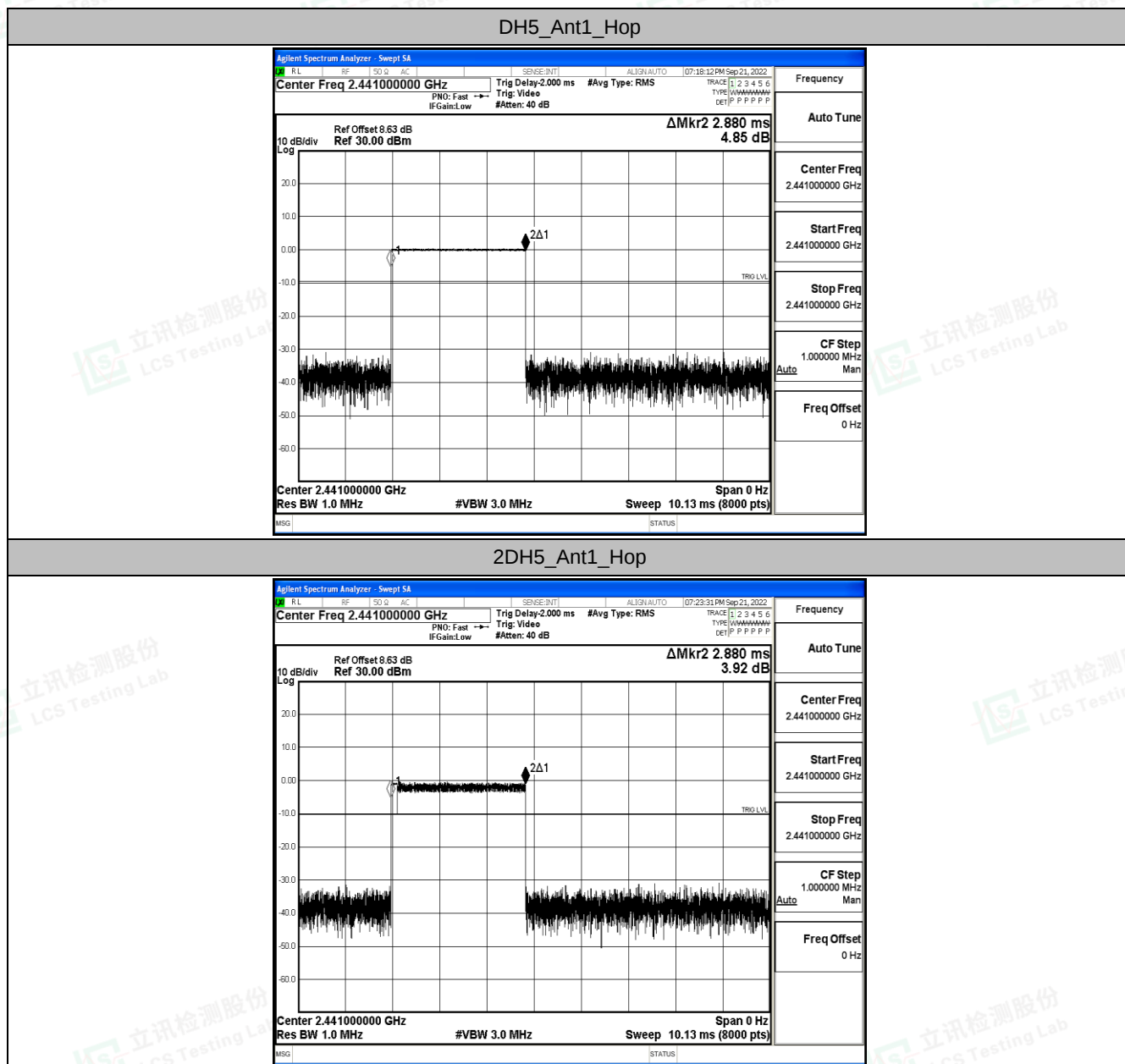
A.4 Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS



Test Graphs



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A.5 Number of hopping channels

Test Result

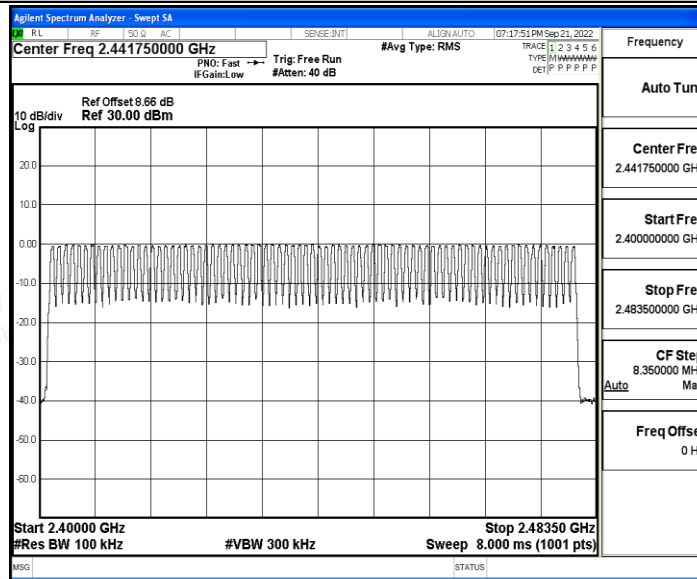
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS



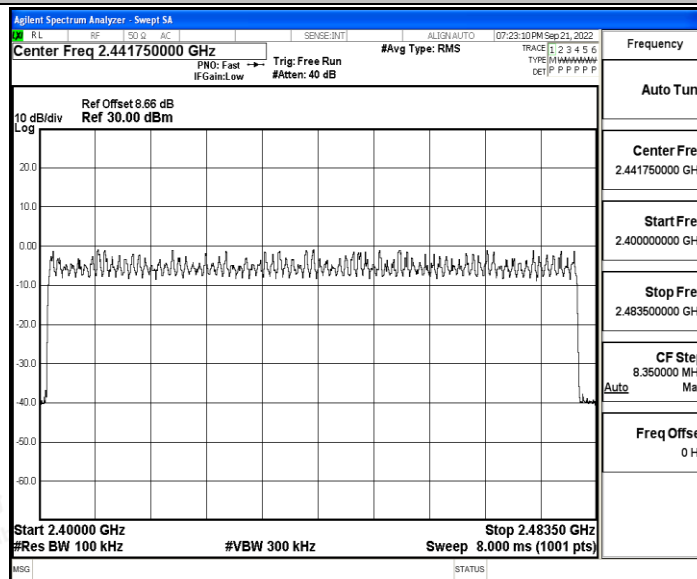


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.6 Band edge measurements

Test Result

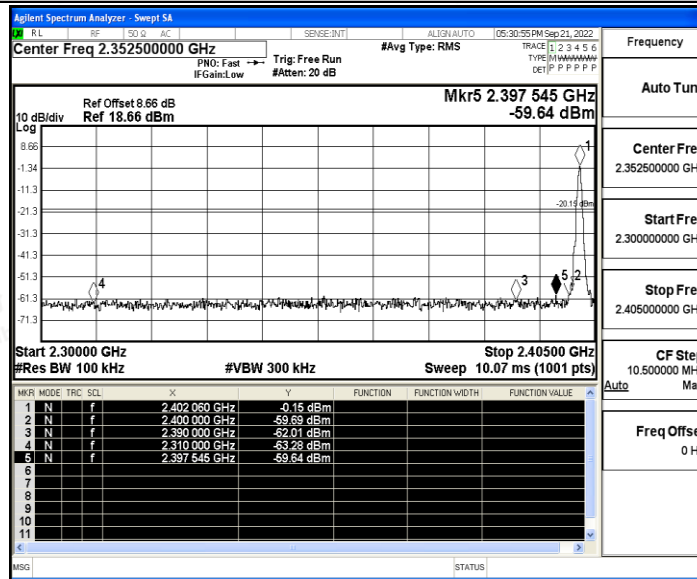
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.15	-59.64	≤ -20.15	PASS
		High	2480	-0.30	-59.19	≤ -20.3	PASS
		Low	Hop_2402	-1.28	-59.31	≤ -21.28	PASS
		High	Hop_2480	-0.22	-56.66	≤ -20.22	PASS
2DH5	Ant1	Low	2402	-4.72	-58.93	≤ -24.72	PASS
		High	2480	-3.42	-58.92	≤ -23.42	PASS
		Low	Hop_2402	-5.41	-59.01	≤ -25.41	PASS
		High	Hop_2480	-1.14	-57.94	≤ -21.14	PASS



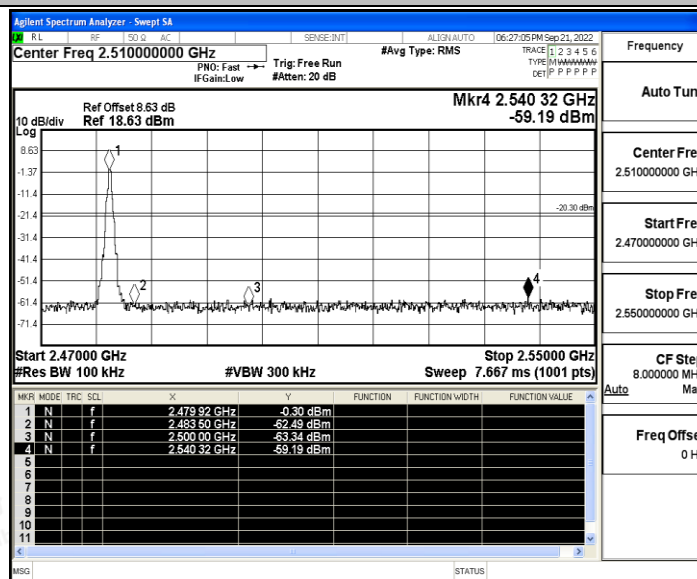


Test Graphs

DH5_Ant1_Low_2402

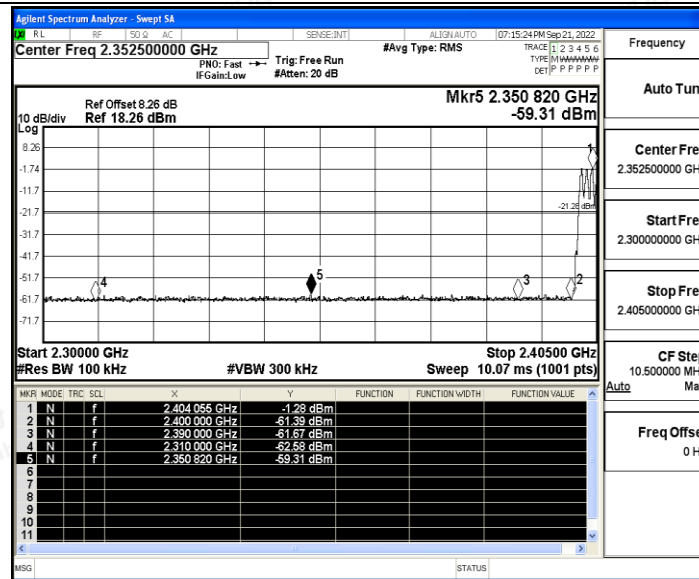


DH5_Ant1_High_2480

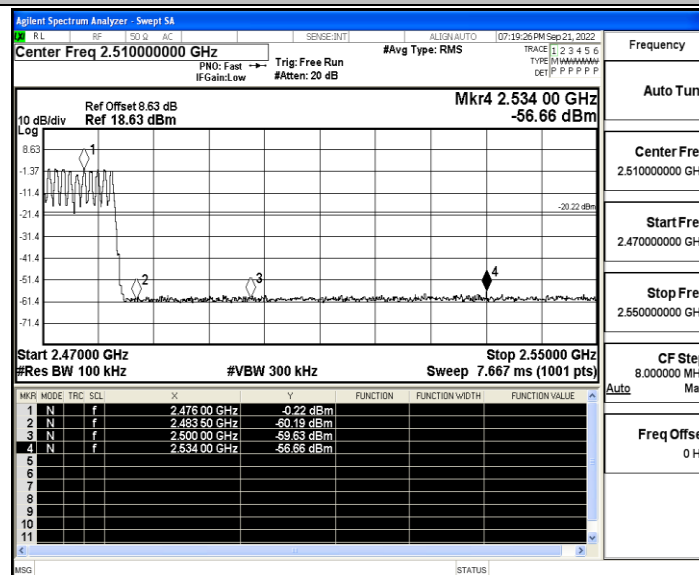


DH5_Ant1_Low_Hop_2402





DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

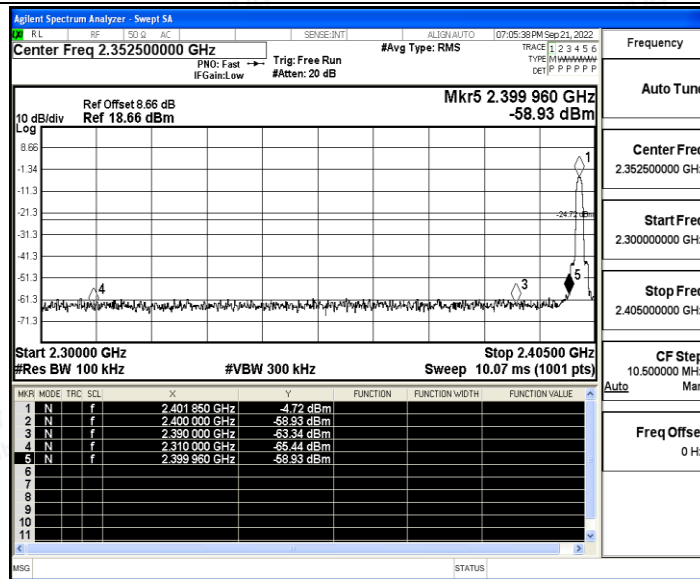


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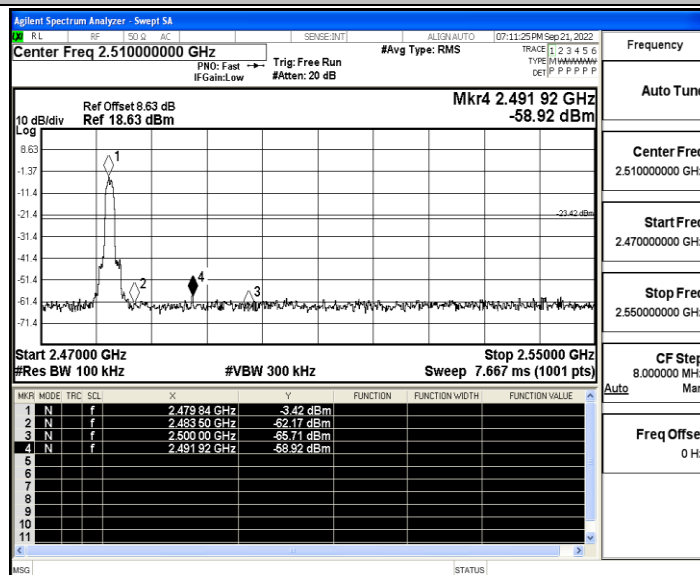
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

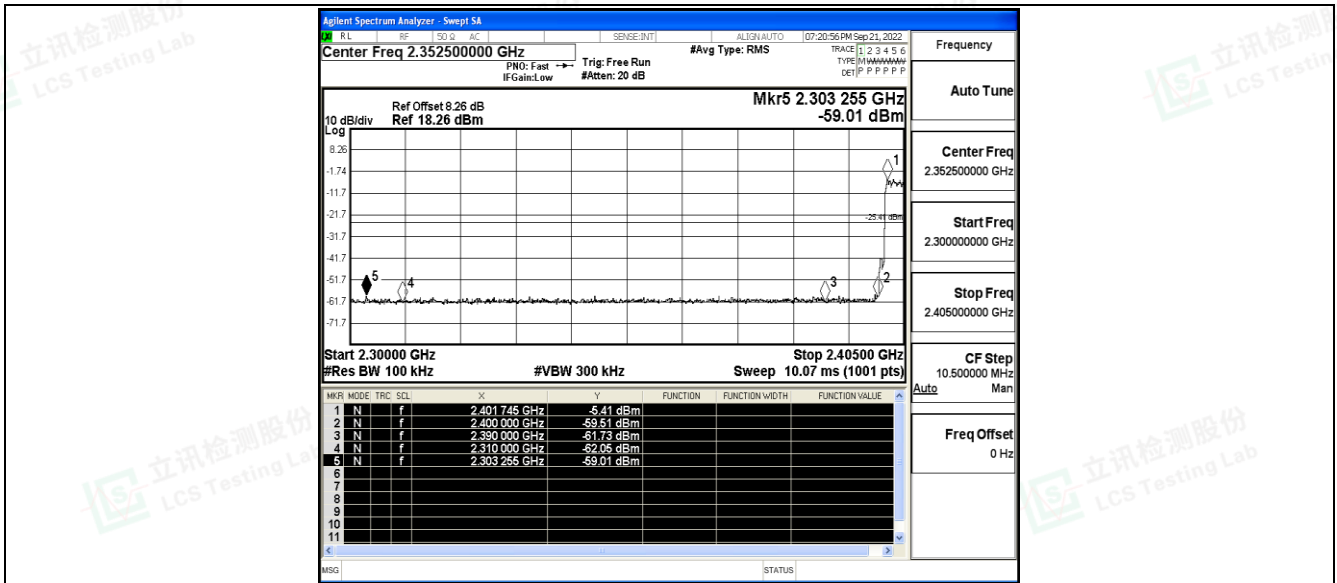


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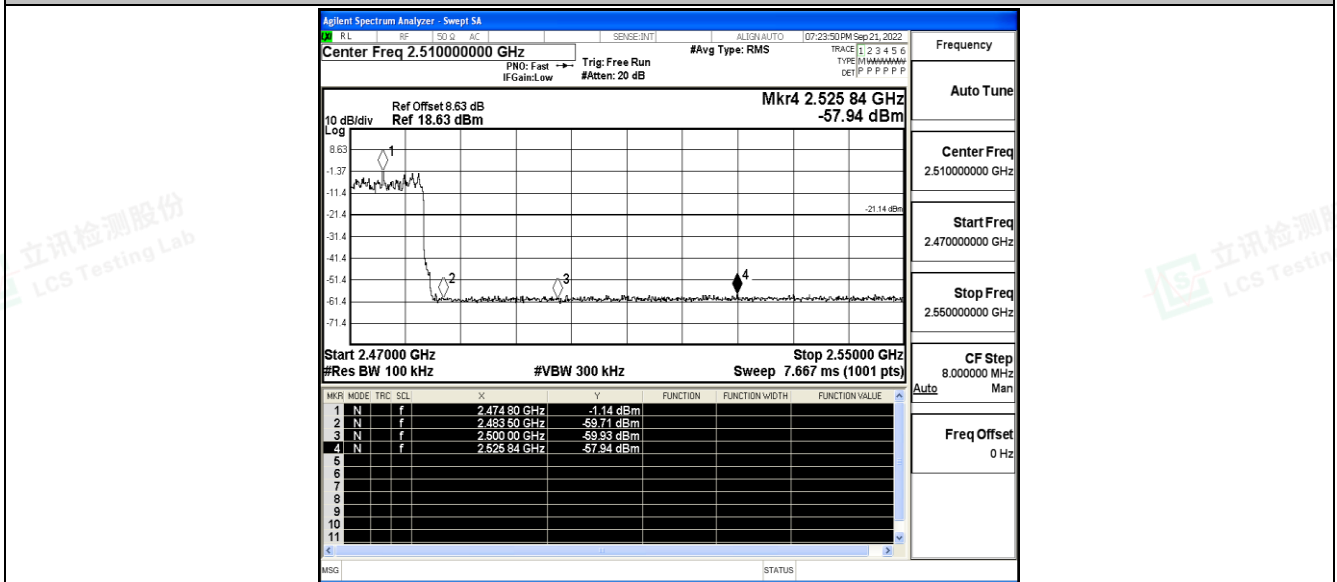
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2DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-60.24	≤ -20.35	PASS
			1000~26500	-0.35	-45.91	≤ -20.35	PASS
		2441	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-60.13	≤ -20.58	PASS
			1000~26500	-0.58	-46.36	≤ -20.58	PASS
		2480	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-61.21	≤ -20.72	PASS
			1000~26500	-0.72	-46.9	≤ -20.72	PASS
2DH5	Ant1	2402	Reference	-5.18	-5.18	---	PASS
			30~1000	-5.18	-60.22	≤ -25.18	PASS
			1000~26500	-5.18	-46.06	≤ -25.18	PASS
		2441	Reference	-1.87	-1.87	---	PASS
			30~1000	-1.87	-60.43	≤ -21.87	PASS
			1000~26500	-1.87	-45.53	≤ -21.87	PASS
		2480	Reference	-5.21	-5.21	---	PASS
			30~1000	-5.21	-60.78	≤ -25.21	PASS
			1000~26500	-5.21	-46.14	≤ -25.21	PASS



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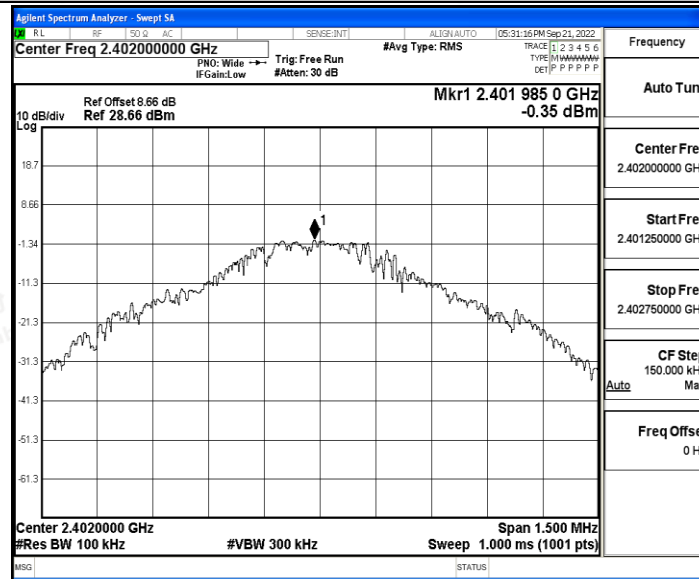
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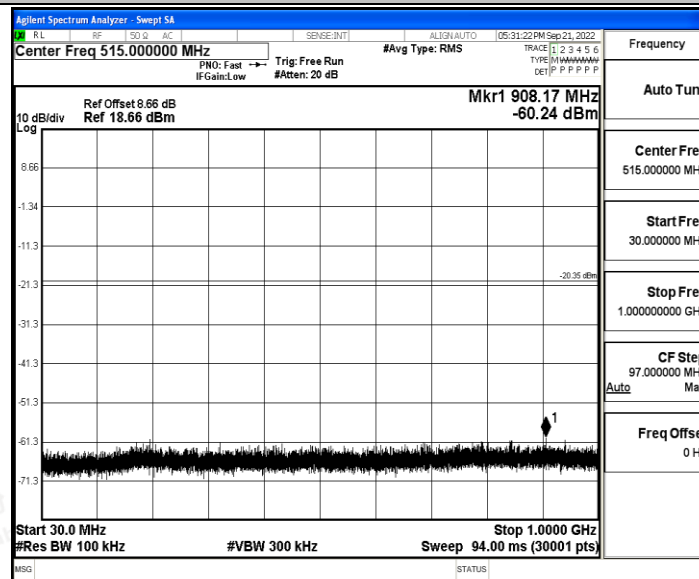


Test Graphs

DH5_Ant1_2402_0-Reference

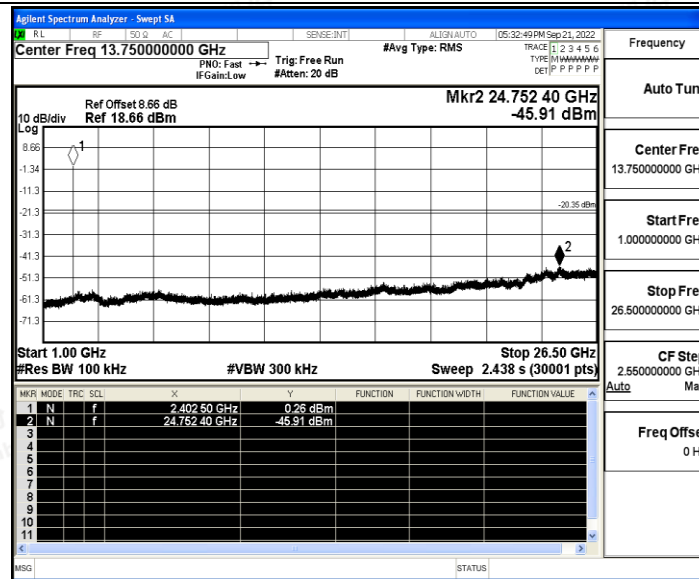


DH5_Ant1_2402_30~1000

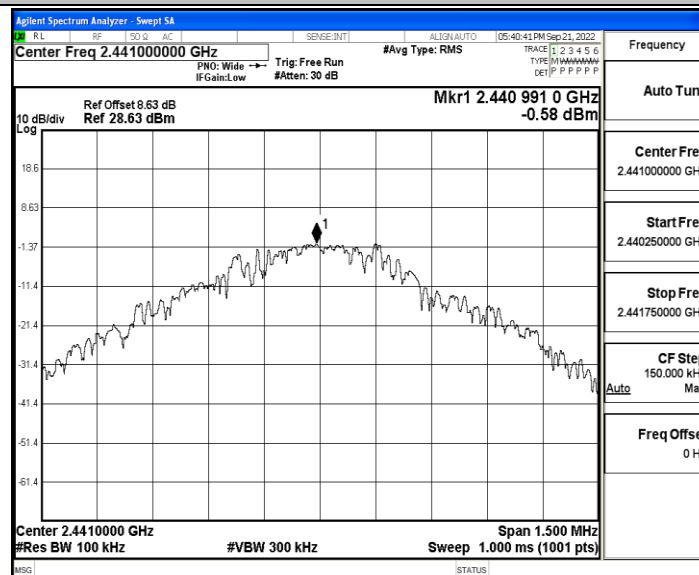


DH5_Ant1_2402_1000~26500





DH5_Ant1_2441_0-Reference



DH5_Ant1_2441_30~1000

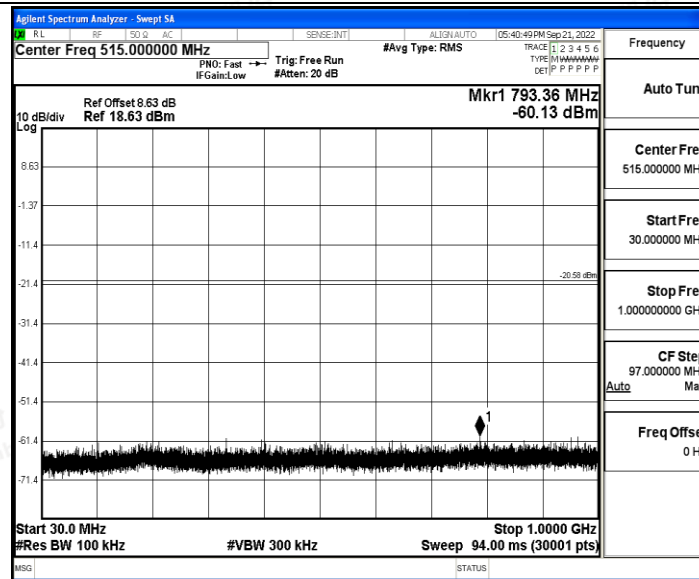


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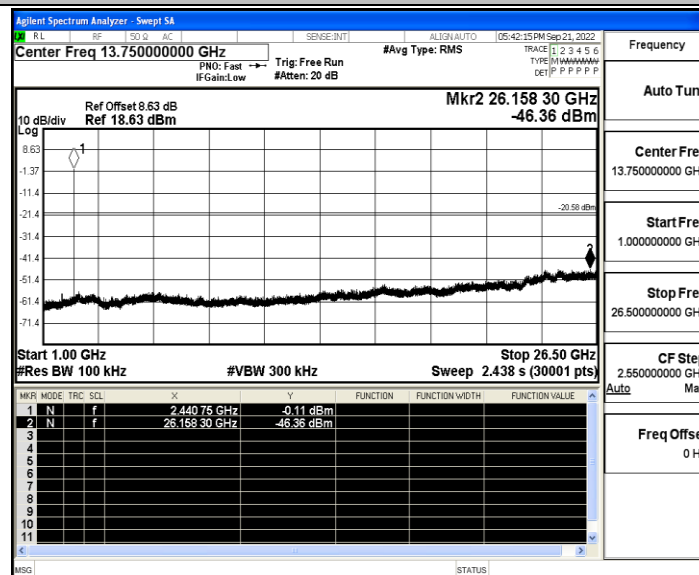
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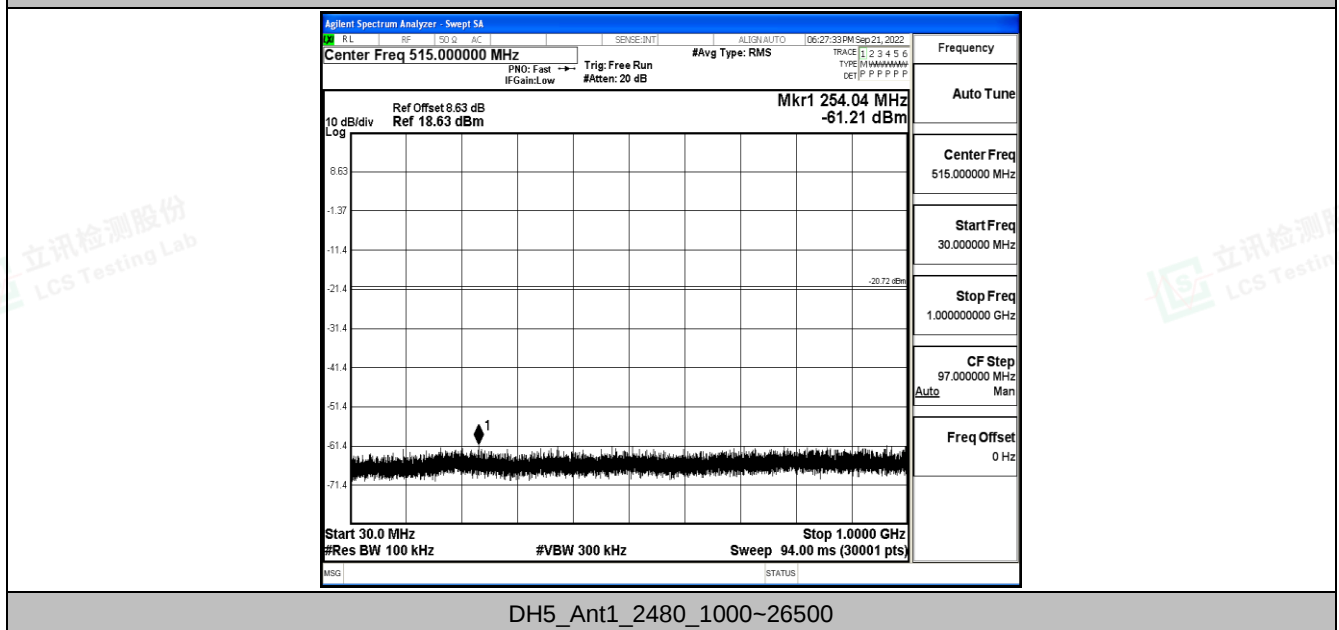
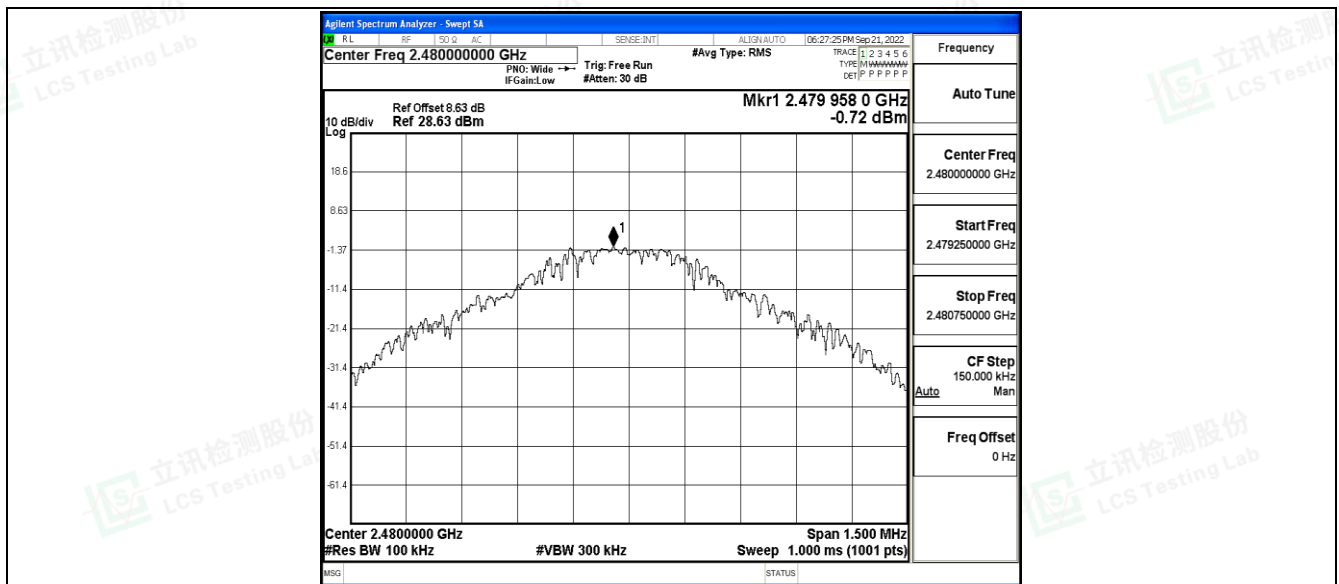


DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



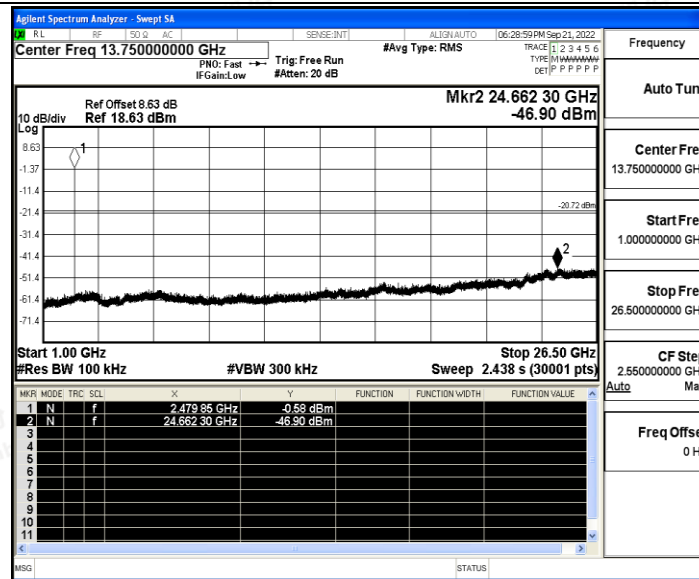


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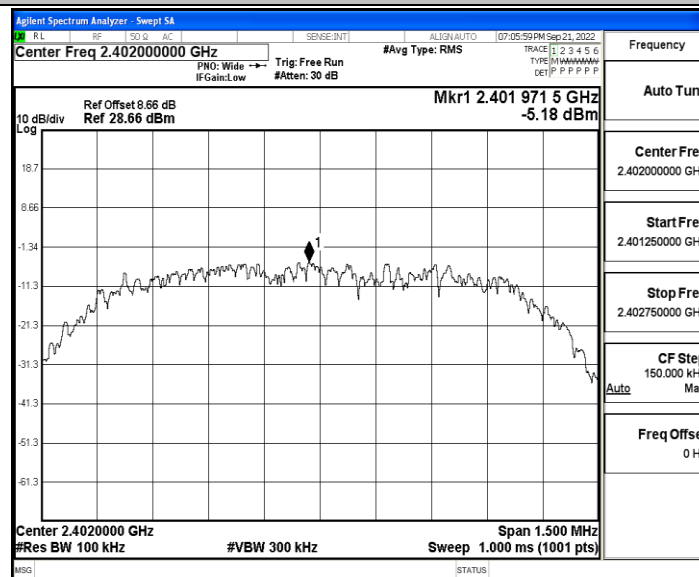
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

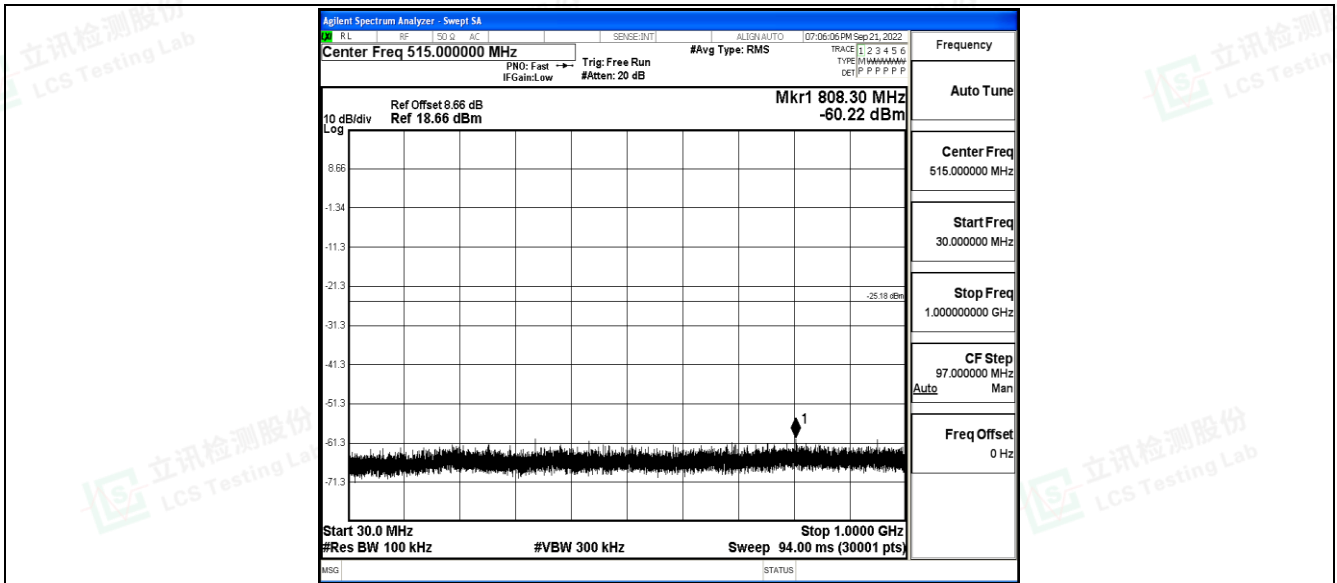


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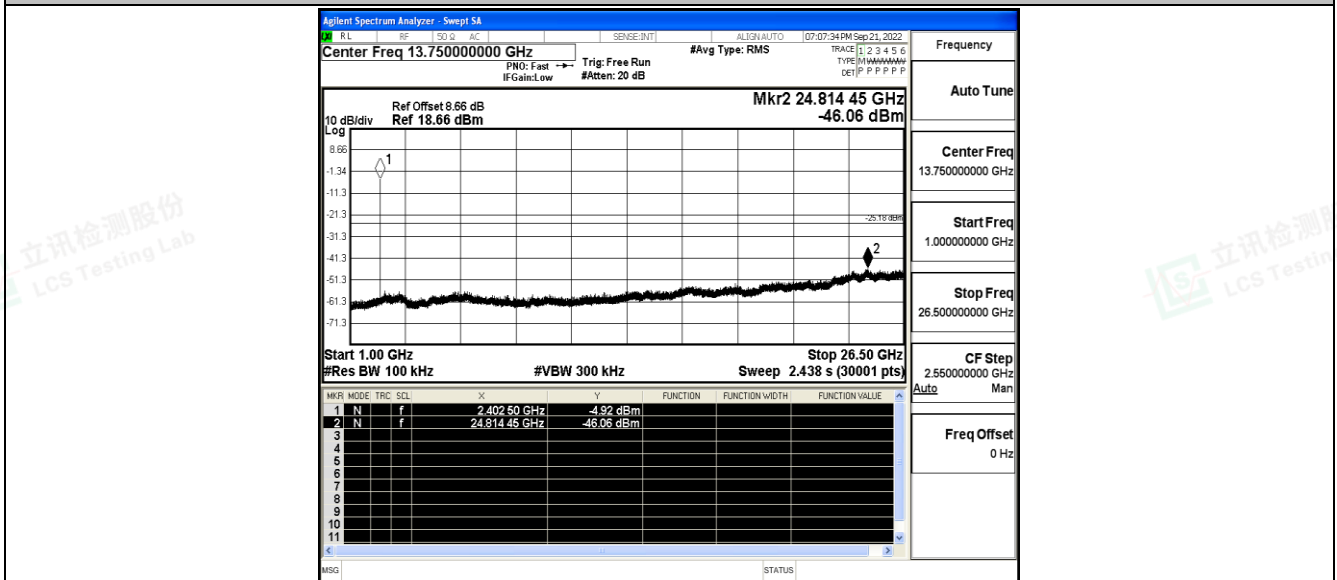
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

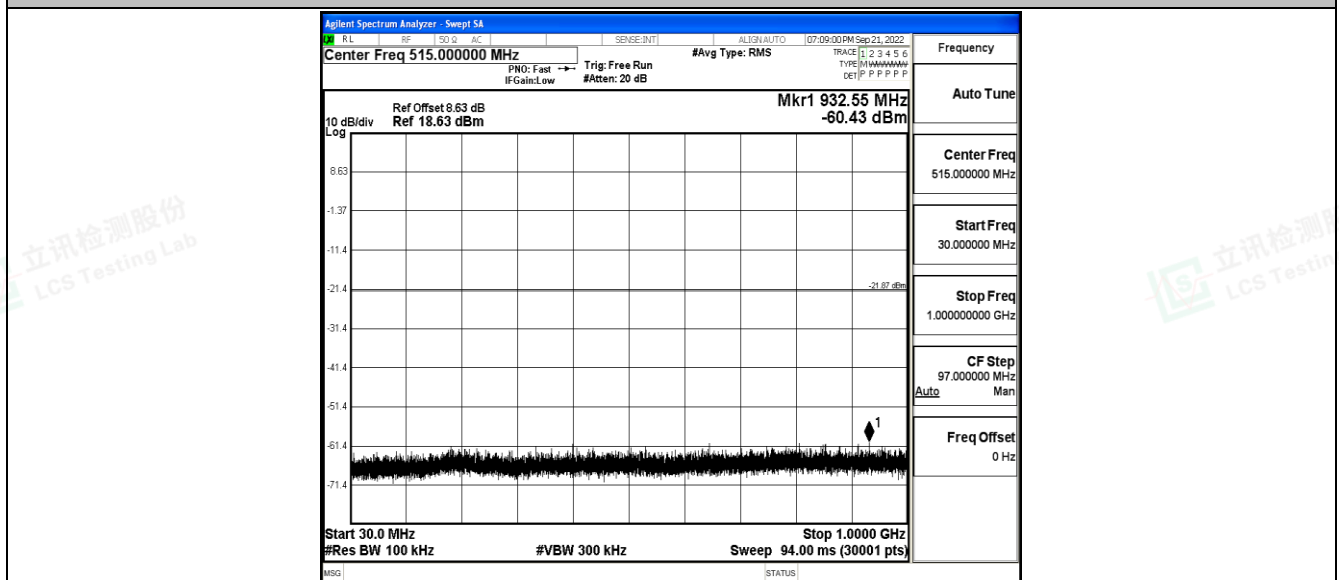
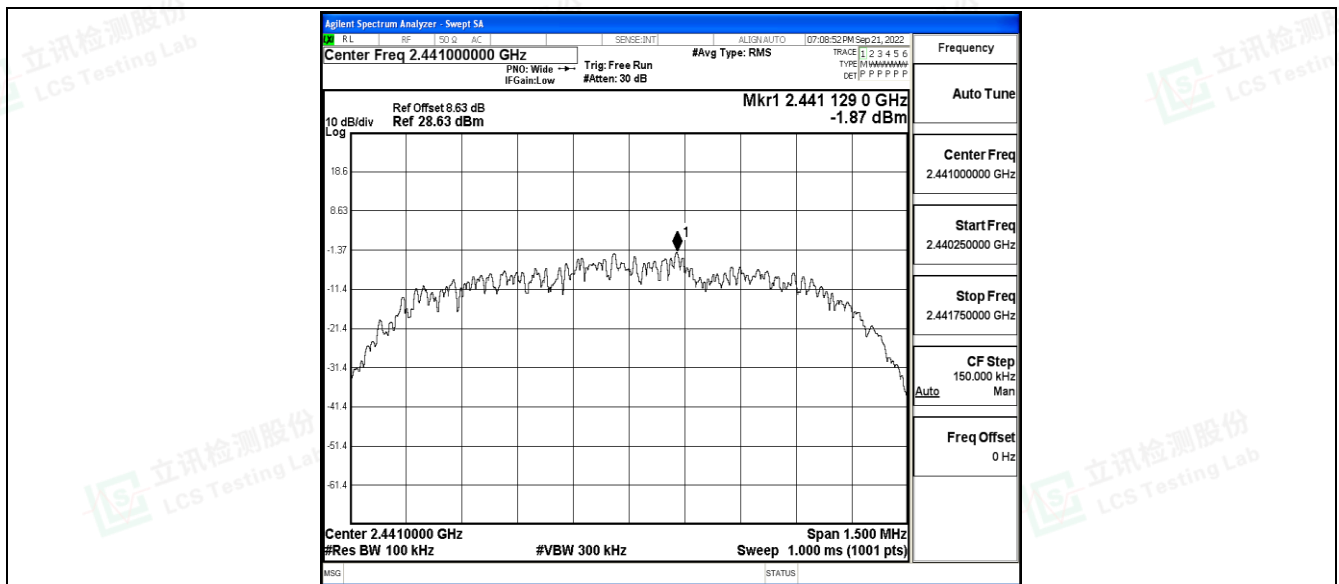


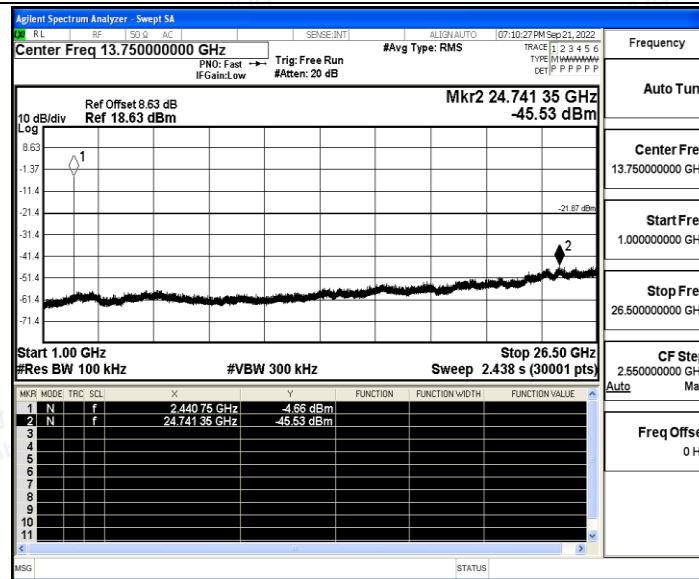
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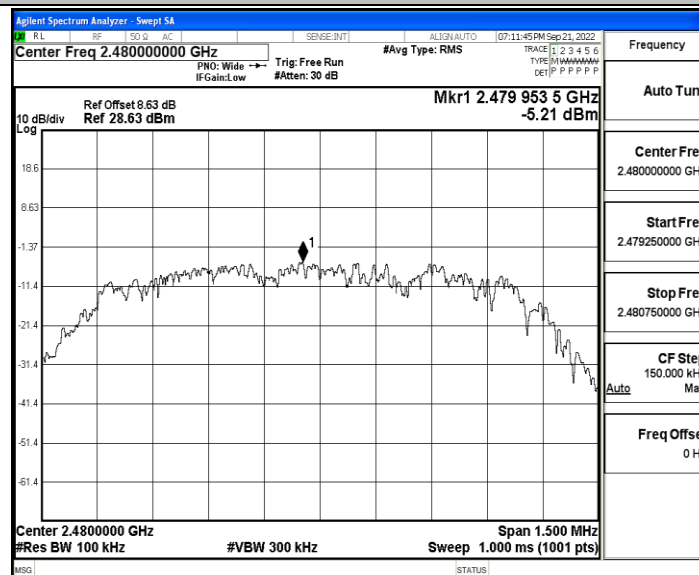
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

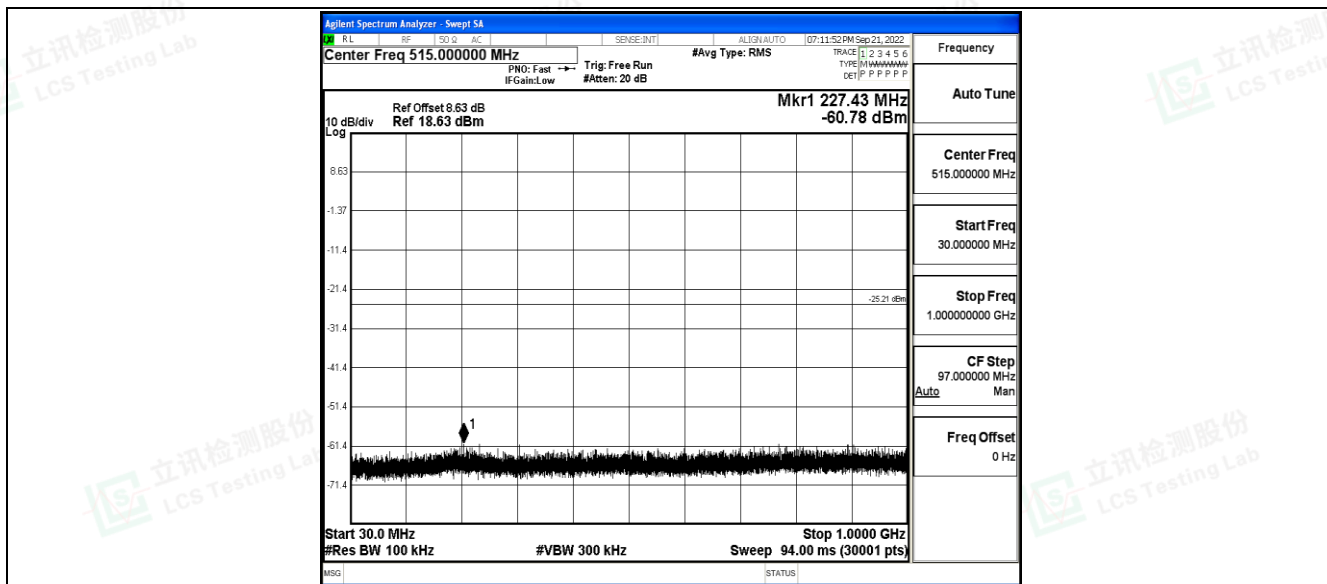


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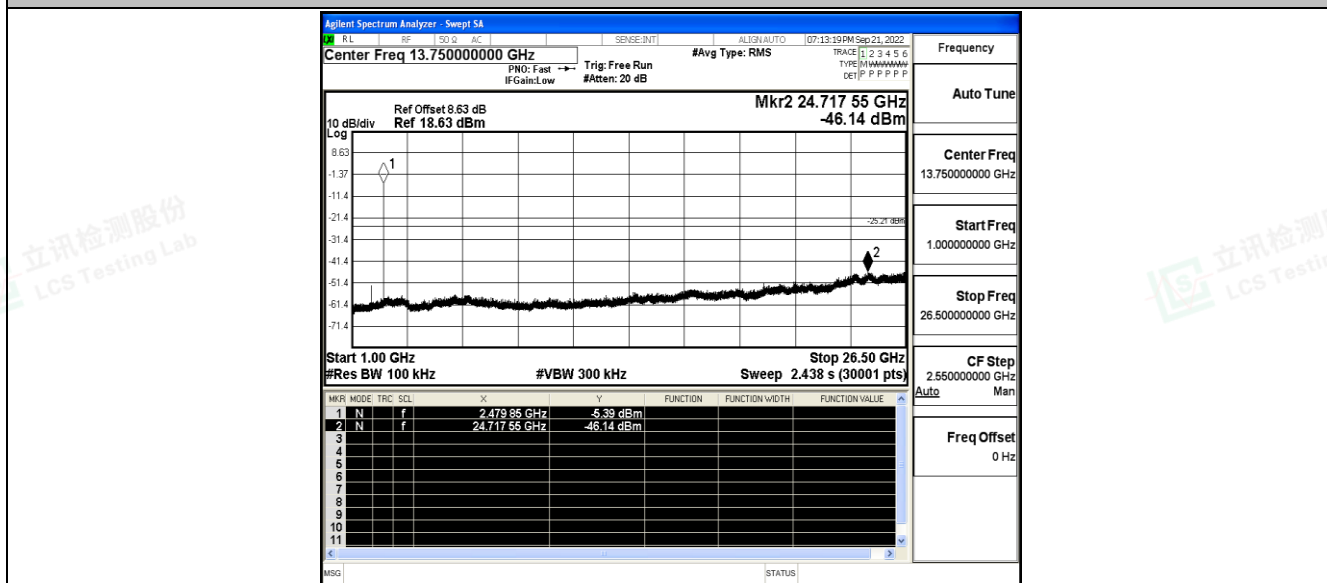
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2DH5_Ant1_2480_1000~26500



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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	-58.23	≤-41.20	36.97	≤54	PASS
				AV	2386.100	-57.67	≤-41.20	37.53	≤54	PASS
				AV	2390.000	-57.75	≤-41.20	37.45	≤54	PASS
				Peak	2310.000	-53.24	≤-21.20	41.96	≤74	PASS
				Peak	2324.255	-48.69	≤-21.20	46.51	≤74	PASS
				Peak	2390.000	-50.88	≤-21.20	44.32	≤74	PASS
		High	2480	AV	2483.500	-55.46	≤-41.20	39.74	≤54	PASS
				AV	2483.520	-55.46	≤-41.20	39.74	≤54	PASS
				AV	2500.000	-57.35	≤-41.20	37.85	≤54	PASS
				Peak	2483.500	-50.39	≤-21.20	44.81	≤74	PASS
				Peak	2495.760	-48.01	≤-21.20	47.19	≤74	PASS
				Peak	2500.000	-51.44	≤-21.20	43.76	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-50.29	≤-21.20	44.91	≤74	PASS
				Peak	2352.815	-47.99	≤-21.20	47.21	≤74	PASS
				Peak	2390.000	-49.99	≤-21.20	45.21	≤74	PASS
		High	Hop_2480	Peak	2483.500	-48.04	≤-21.20	47.16	≤74	PASS
				Peak	2499.040	-46.41	≤-21.20	48.79	≤74	PASS
				Peak	2500.000	-48.97	≤-21.20	46.23	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.28	≤-41.20	36.92	≤54	PASS
				AV	2389.775	-57.62	≤-41.20	37.58	≤54	PASS
				AV	2390.000	-57.71	≤-41.20	37.49	≤54	PASS
				Peak	2310.000	-53.88	≤-21.20	41.32	≤74	PASS
				Peak	2310.605	-48.24	≤-21.20	46.96	≤74	PASS
				Peak	2390.000	-53.5	≤-21.20	41.70	≤74	PASS
		High	2480	AV	2483.500	-55.25	≤-41.20	39.95	≤54	PASS
				AV	2483.520	-55.25	≤-41.20	39.95	≤54	PASS
				AV	2500.000	-57.17	≤-41.20	38.03	≤54	PASS
				Peak	2483.500	-49.04	≤-21.20	46.16	≤74	PASS
				Peak	2483.520	-49.04	≤-21.20	46.16	≤74	PASS
				Peak	2500.000	-53.71	≤-21.20	41.49	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-49.78	≤-21.20	45.42	≤74	PASS
				Peak	2351.870	-47.2	≤-21.20	48.00	≤74	PASS
				Peak	2390.000	-49.38	≤-21.20	45.82	≤74	PASS
		High	Hop_2480	Peak	2483.500	-49.71	≤-21.20	45.49	≤74	PASS
				Peak	2497.360	-47.04	≤-21.20	48.16	≤74	PASS



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				Peak	2500.000	-48.83	≤-21.20	46.37	≤74	PASS
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Note:

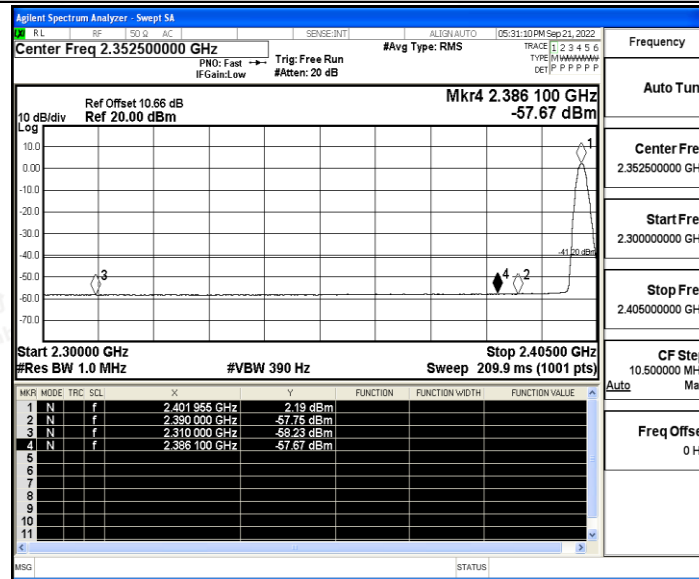
- 1. The Antenna Gain is compensated in the graph.
- 2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



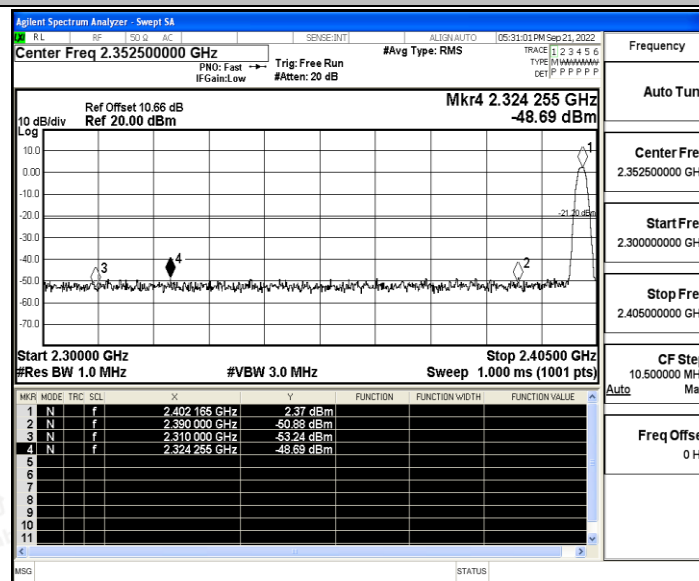


Test Graphs

DH5_Ant1_Low_2402_AV

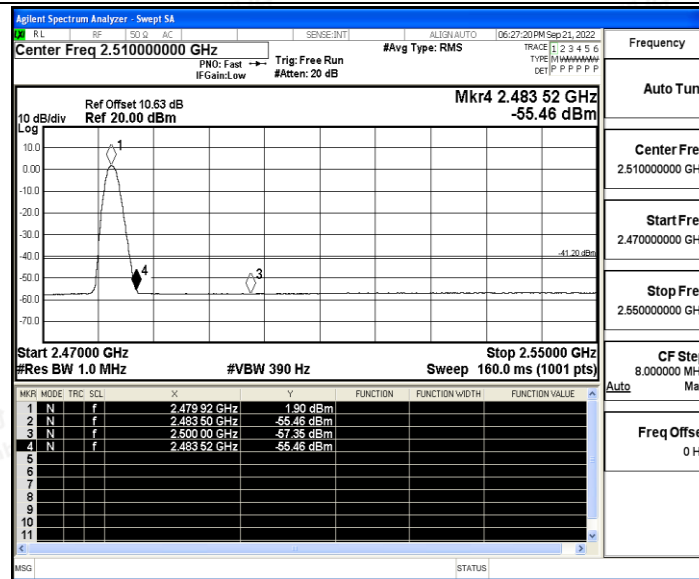


DH5_Ant1_Low_2402_Peak

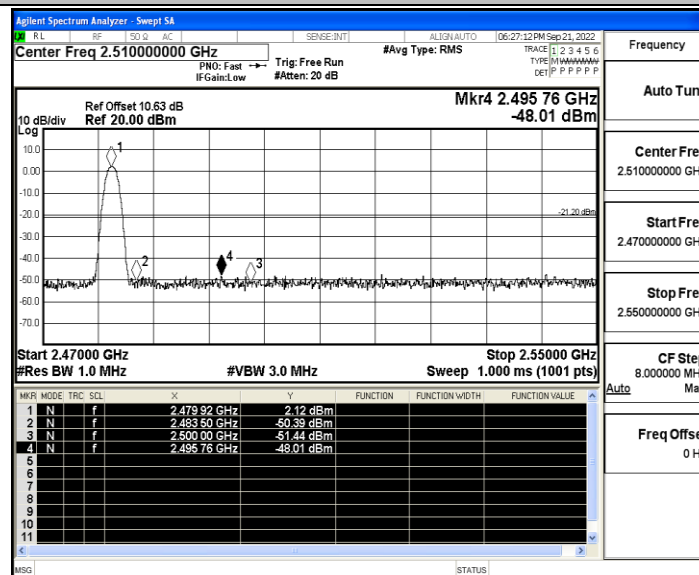


DH5_Ant1_High_2480_AV





DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

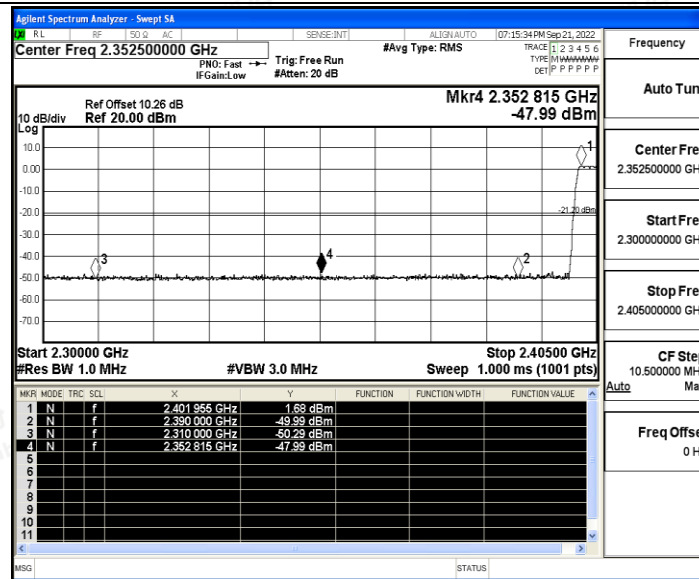


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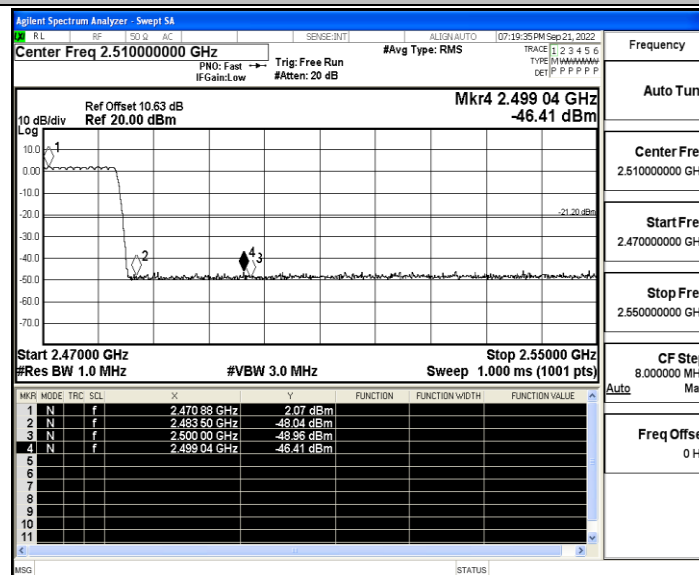
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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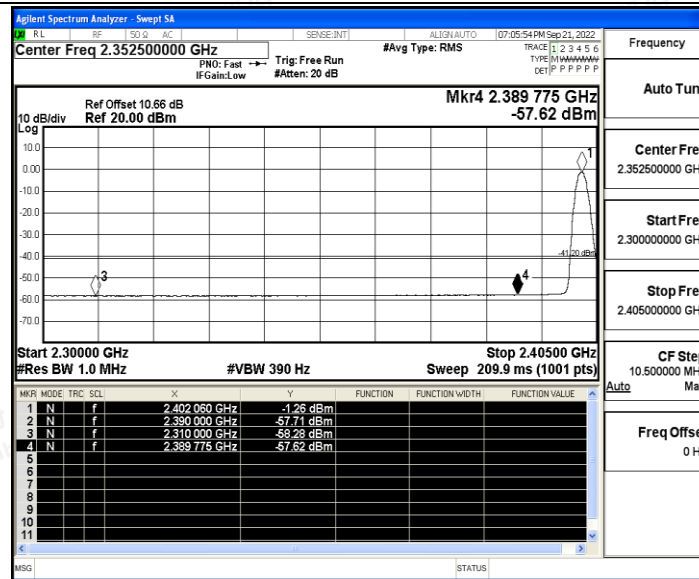


DH5_Ant1_High_Hop_2480_Peak

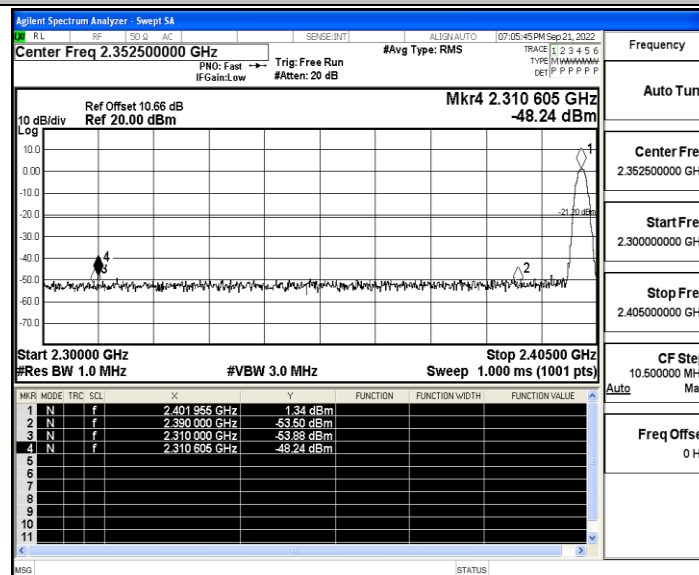


2DH5_Ant1_Low_2402_AV





2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

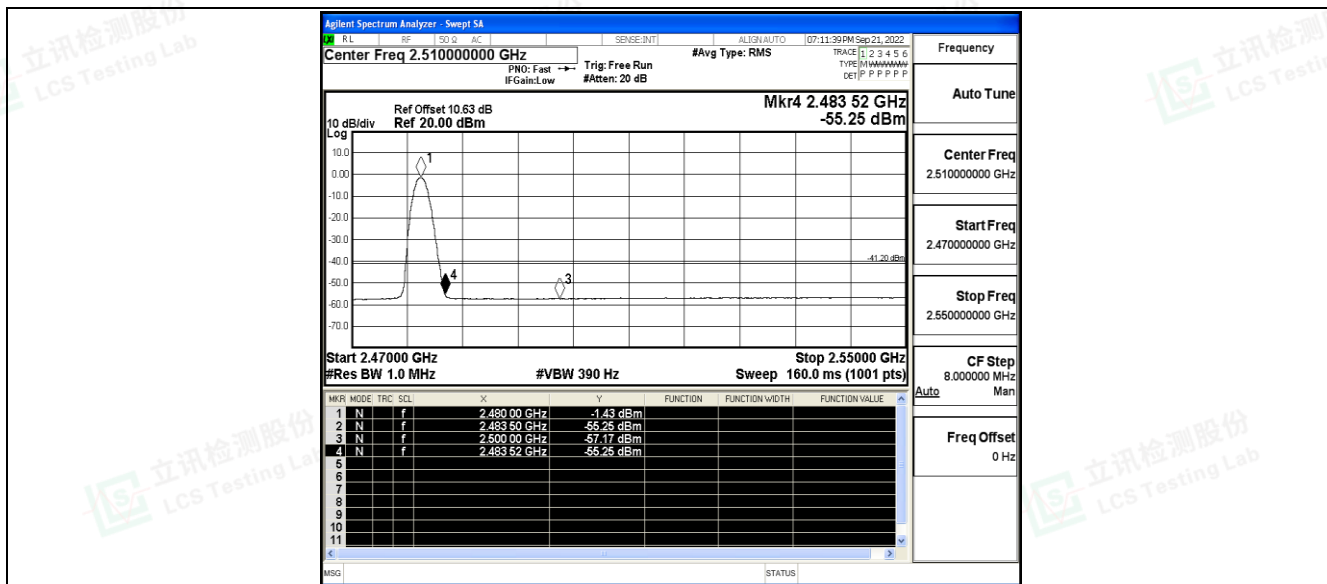


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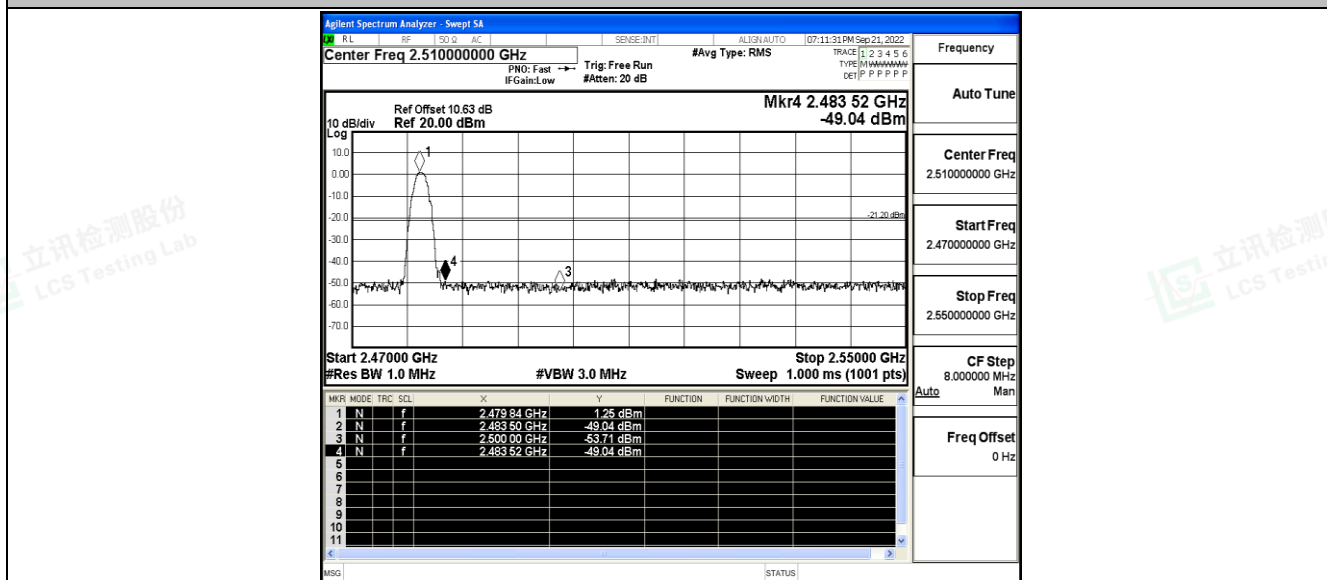
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

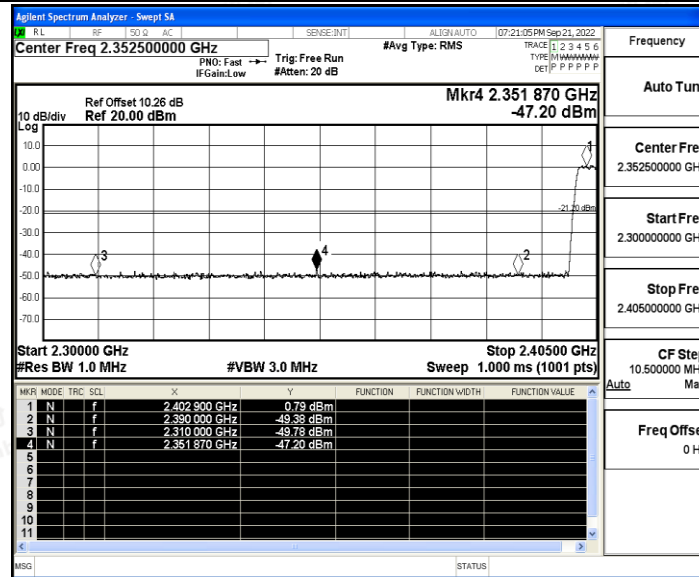


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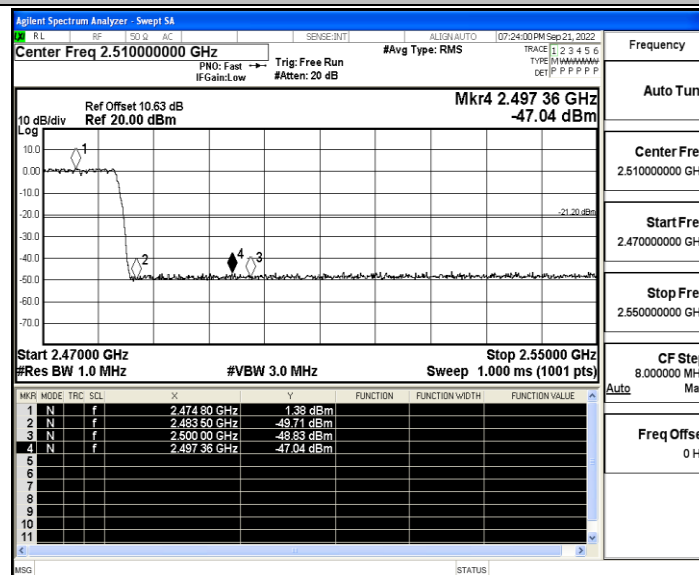
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2DH5_Ant1_High_Hop_2480_Peak



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