



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Smart Phone

Test Model: K1

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





A.1 20dB Emission Bandwidth

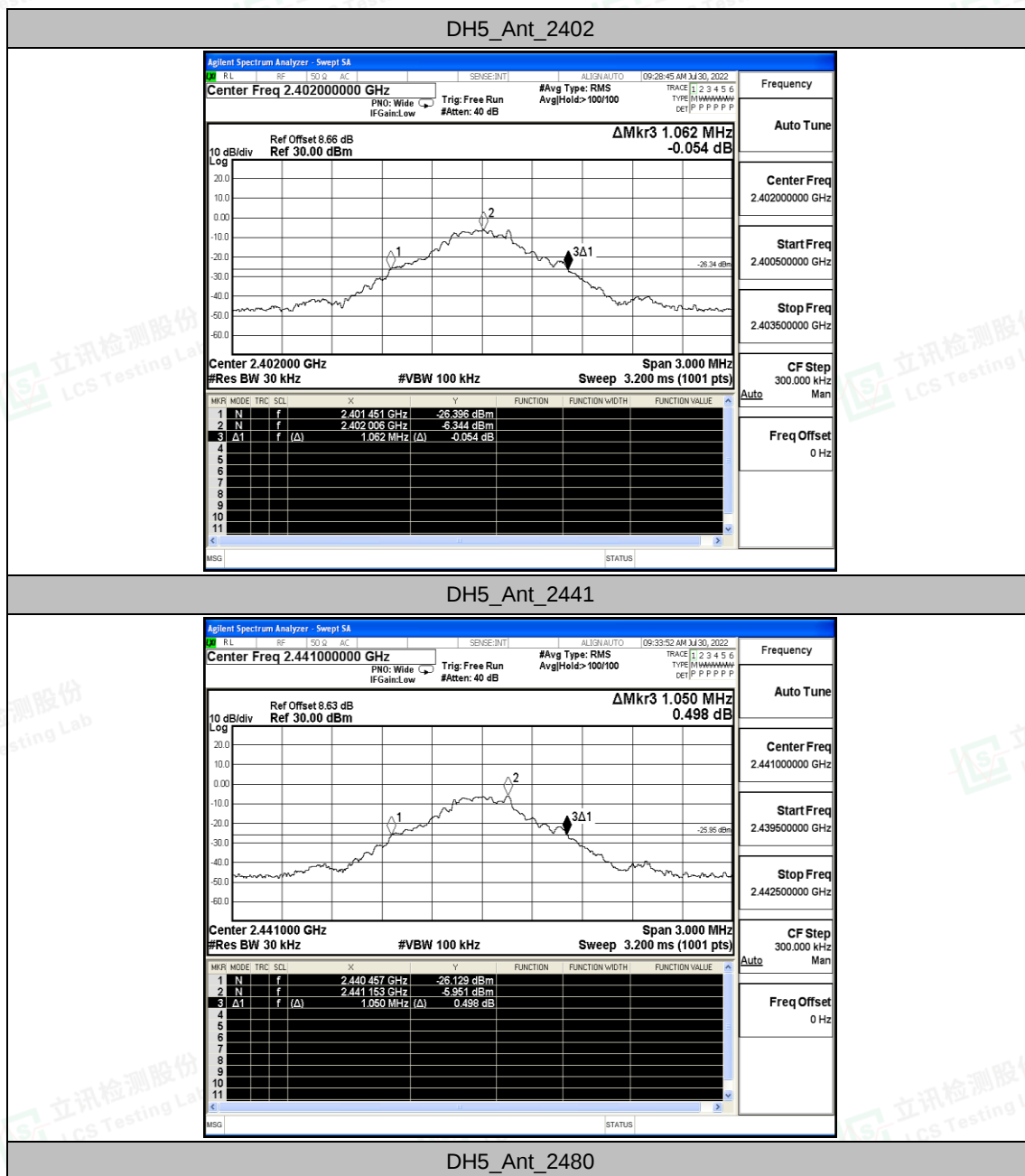
Test Result

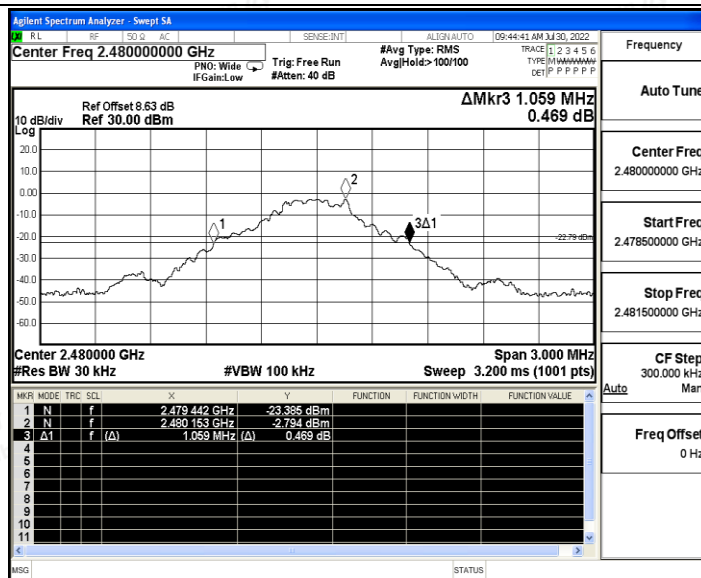
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant	2402	1.062	2401.451	2402.513	---
		2441	1.050	2440.457	2441.507	---
		2480	1.059	2479.442	2480.501	---
2DH5	Ant	2402	1.344	2401.322	2402.666	---
		2441	1.323	2440.331	2441.654	---
		2480	1.329	2479.319	2480.648	---
3DH5	Ant	2402	1.308	2401.340	2402.648	---
		2441	1.305	2440.343	2441.648	---
		2480	1.302	2479.334	2480.636	---



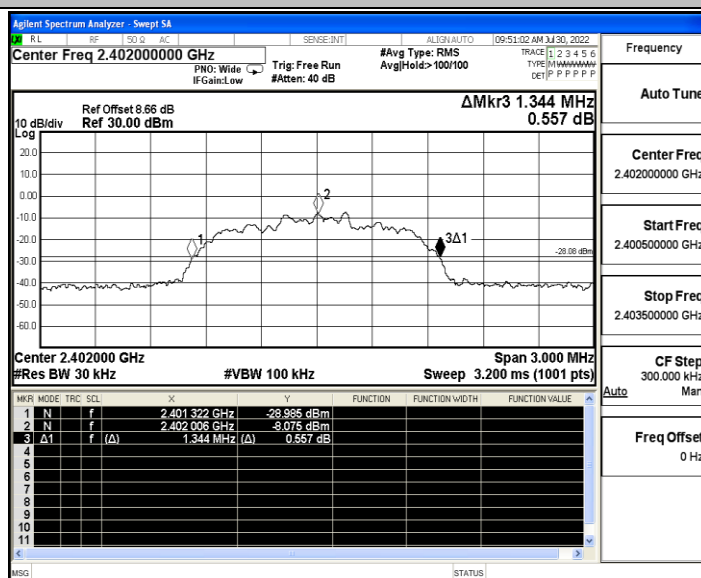


Test Graphs



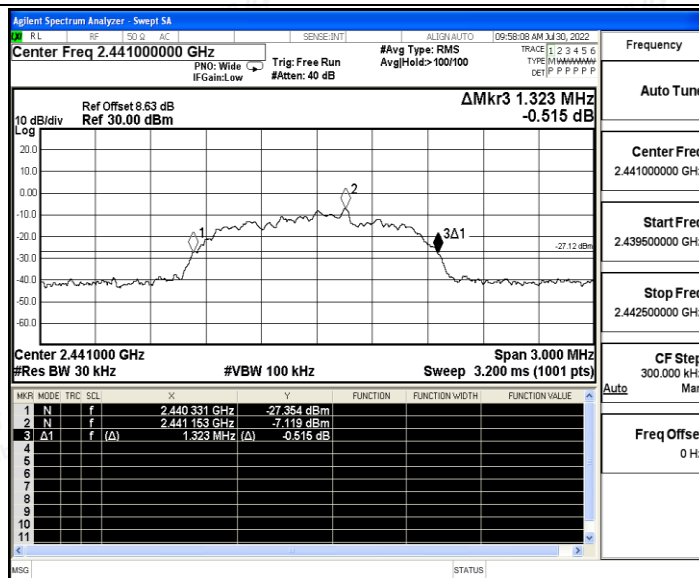


2DH5_Ant_2402

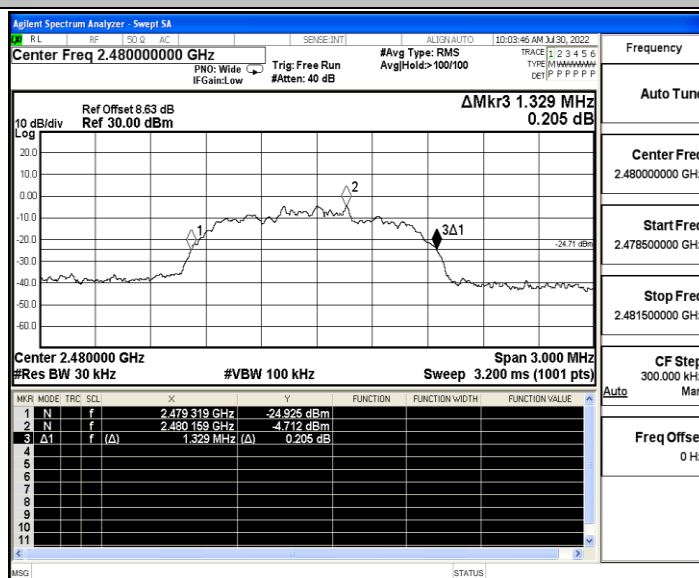


2DH5_Ant_2441



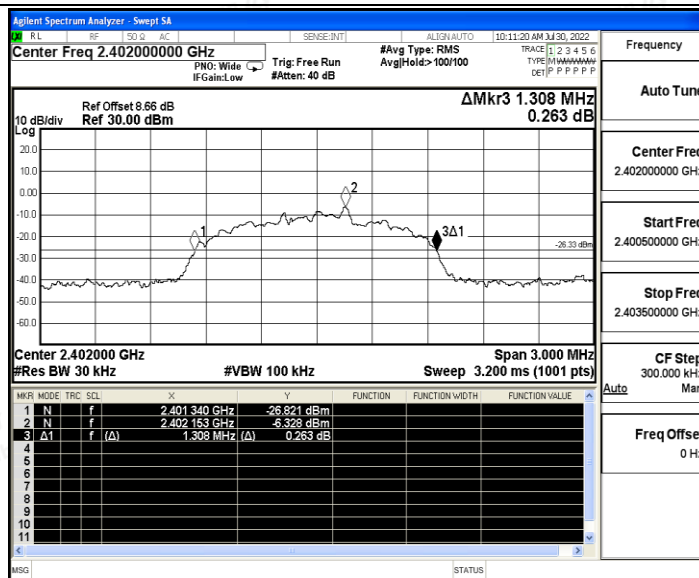


2DH5_Ant_2480

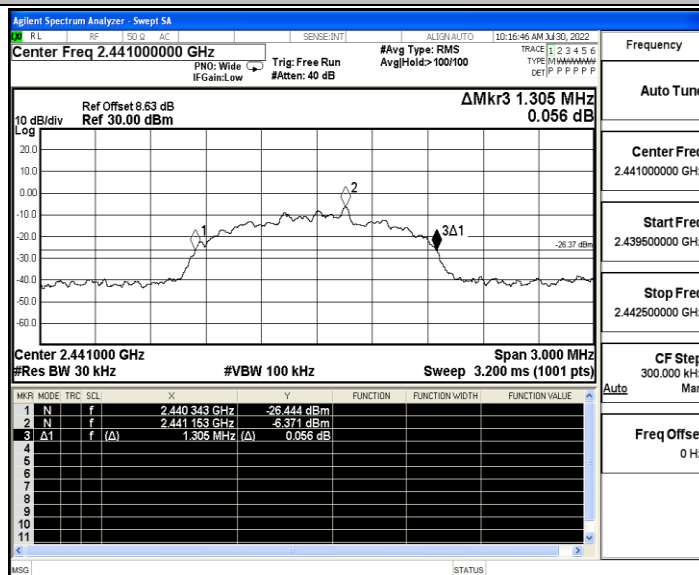


3DH5_Ant_2402



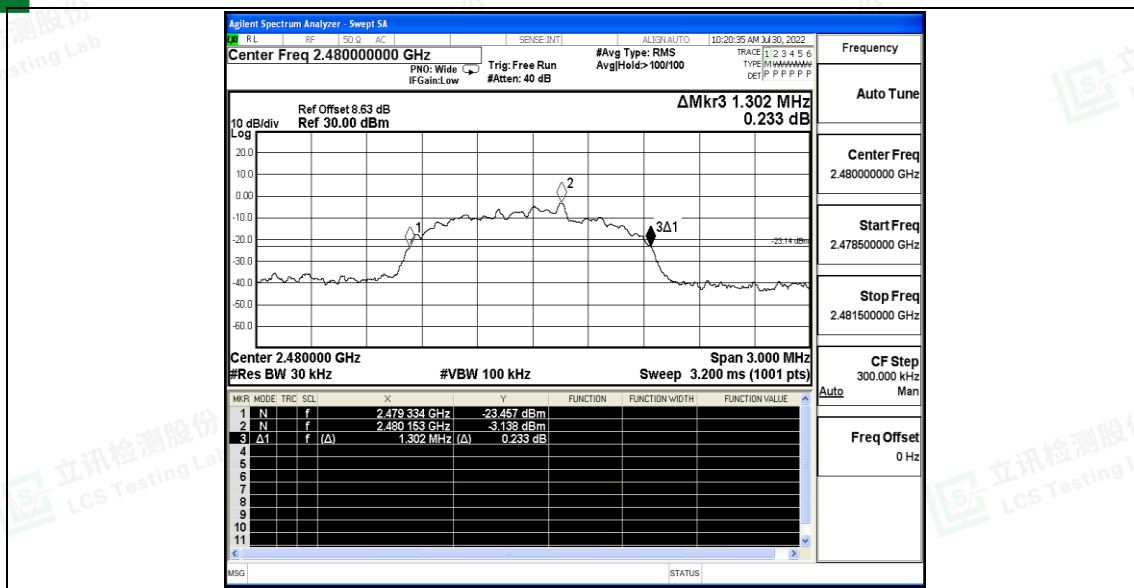


3DH5_Ant_2441



3DH5_Ant_2480







A.2 Maximum conducted output power

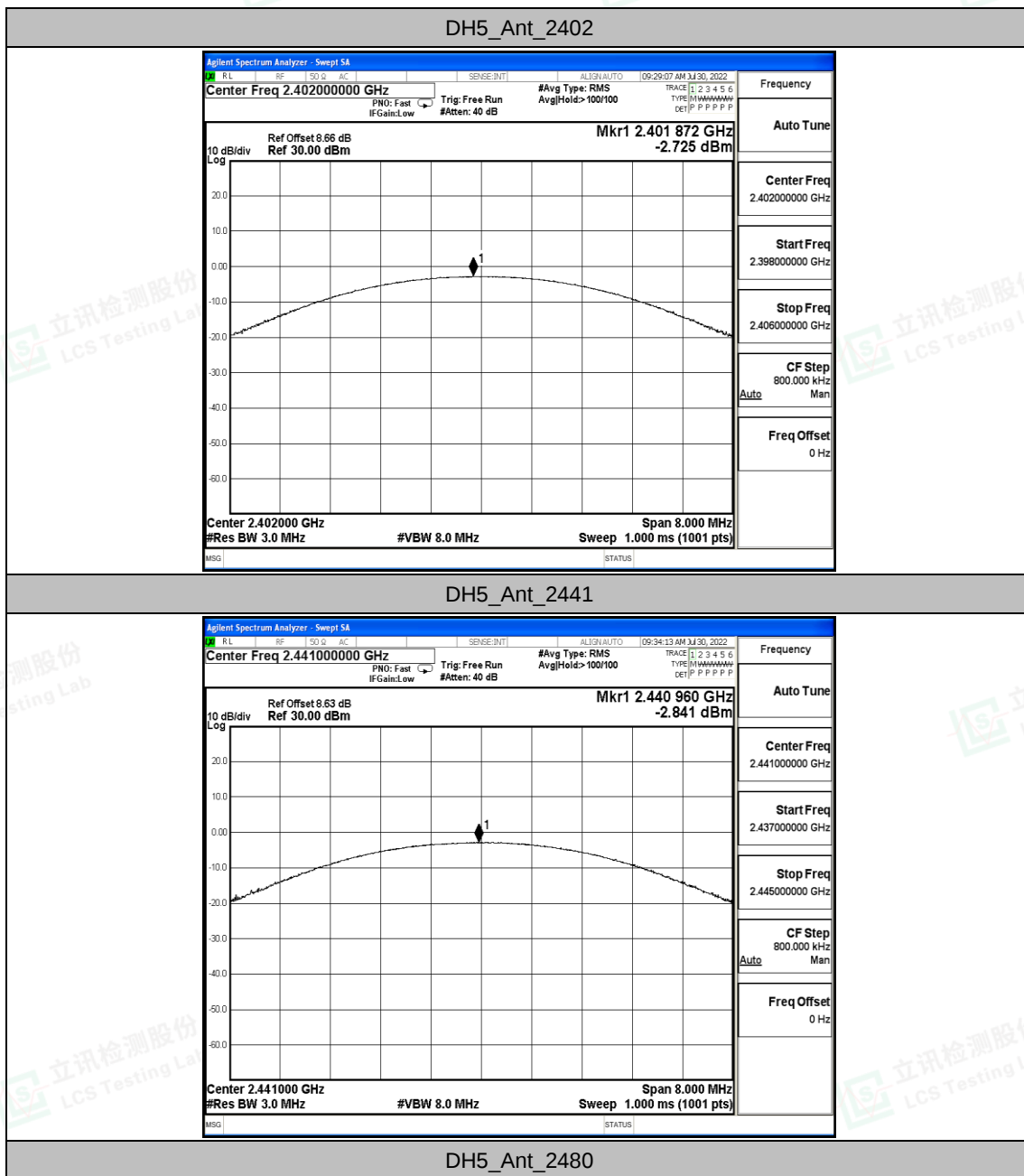
Test Result

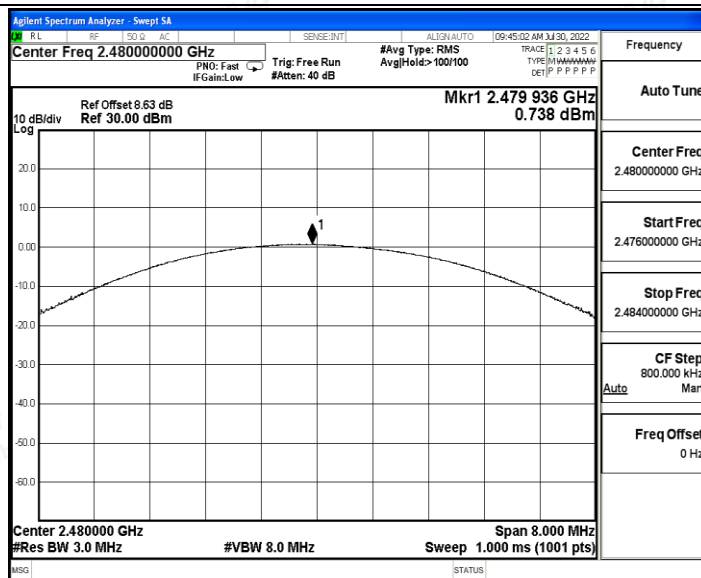
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant	2402	-2.73	≤20.97	PASS
		2441	-2.84	≤20.97	PASS
		2480	0.74	≤20.97	PASS
2DH5	Ant	2402	-2.91	≤20.97	PASS
		2441	-3.04	≤20.97	PASS
		2480	0.66	≤20.97	PASS
3DH5	Ant	2402	-2.81	≤20.97	PASS
		2441	-3.00	≤20.97	PASS
		2480	0.78	≤20.97	PASS



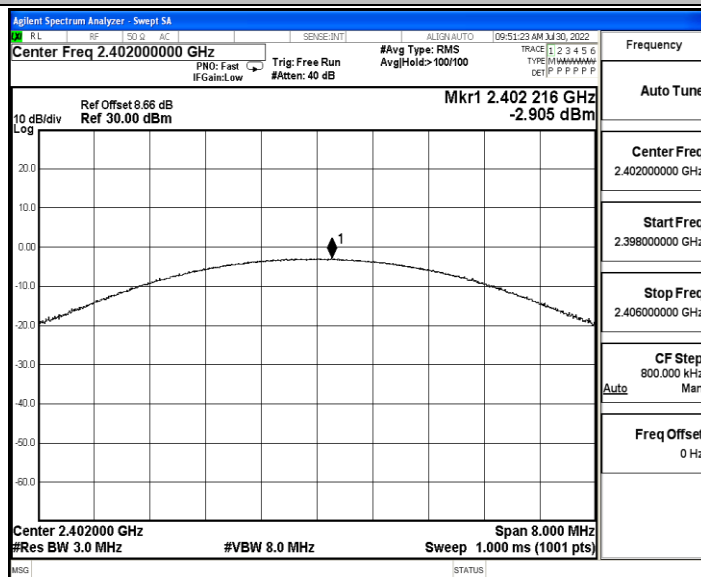


Test Graphs



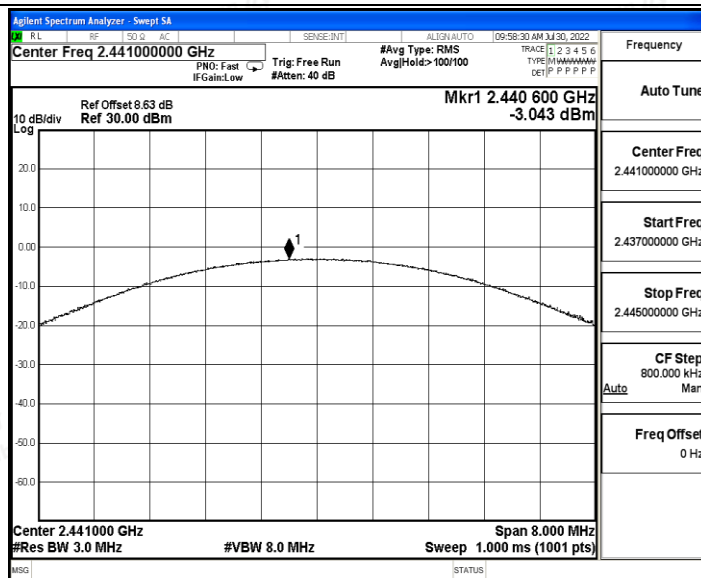


2DH5_Ant_2402

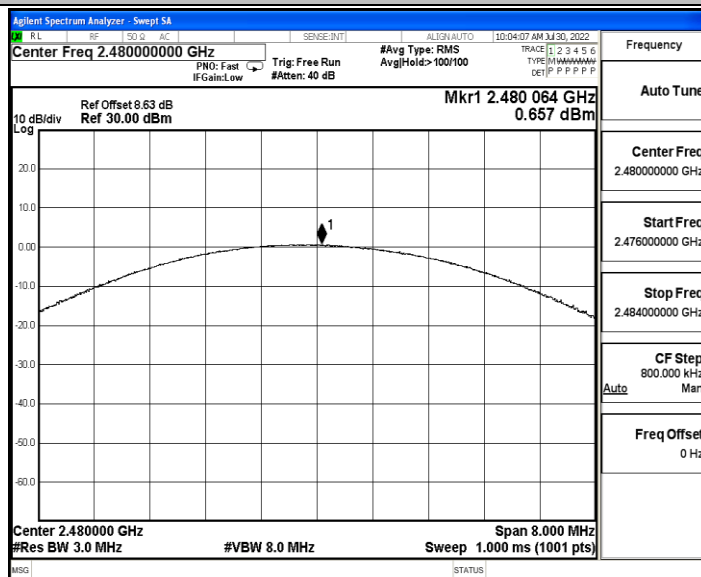


2DH5_Ant_2441



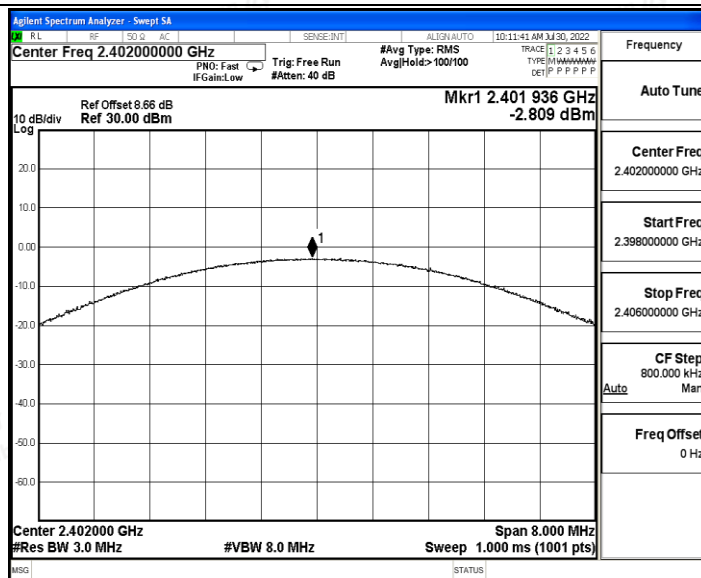


2DH5_Ant_2480

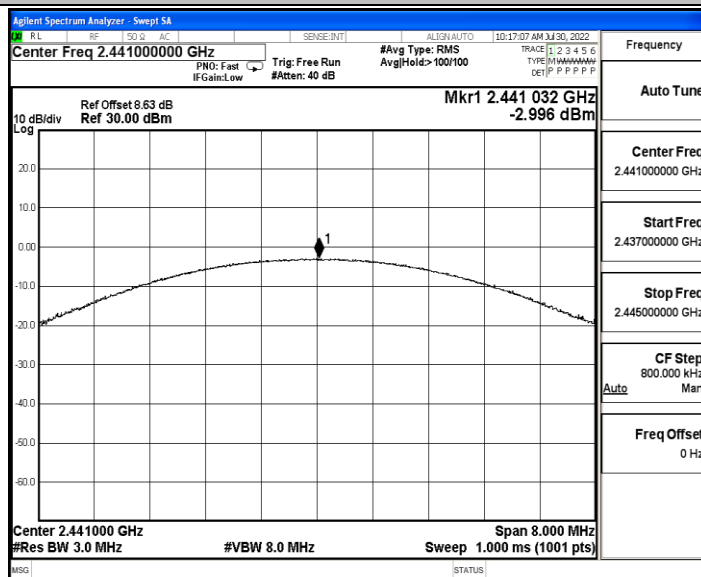


3DH5_Ant_2402



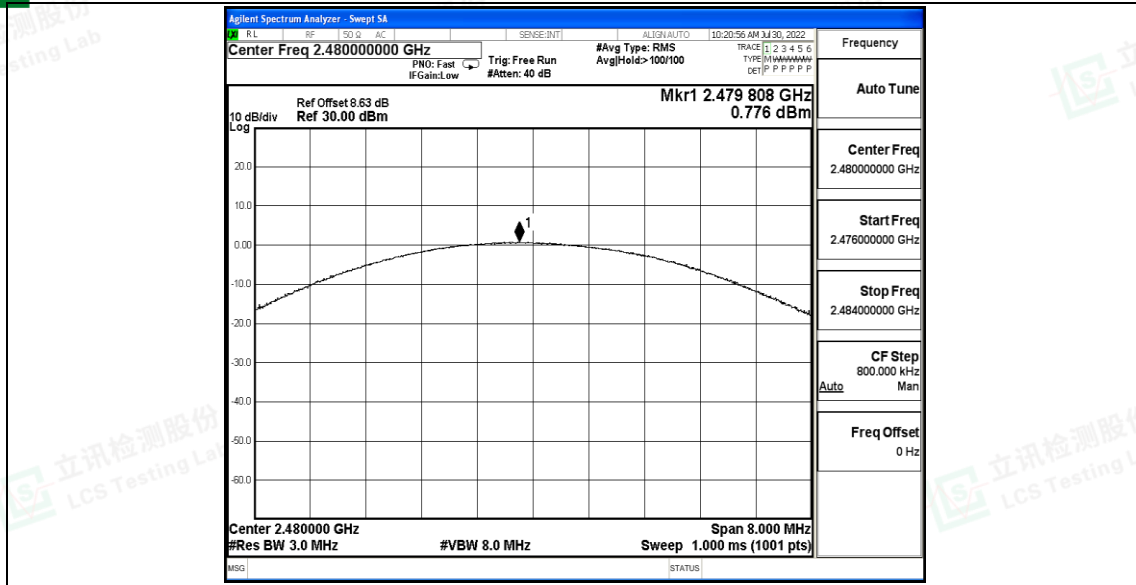


3DH5_Ant_2441



3DH5_Ant_2480







A.3 Carrier frequency separation

Test Result

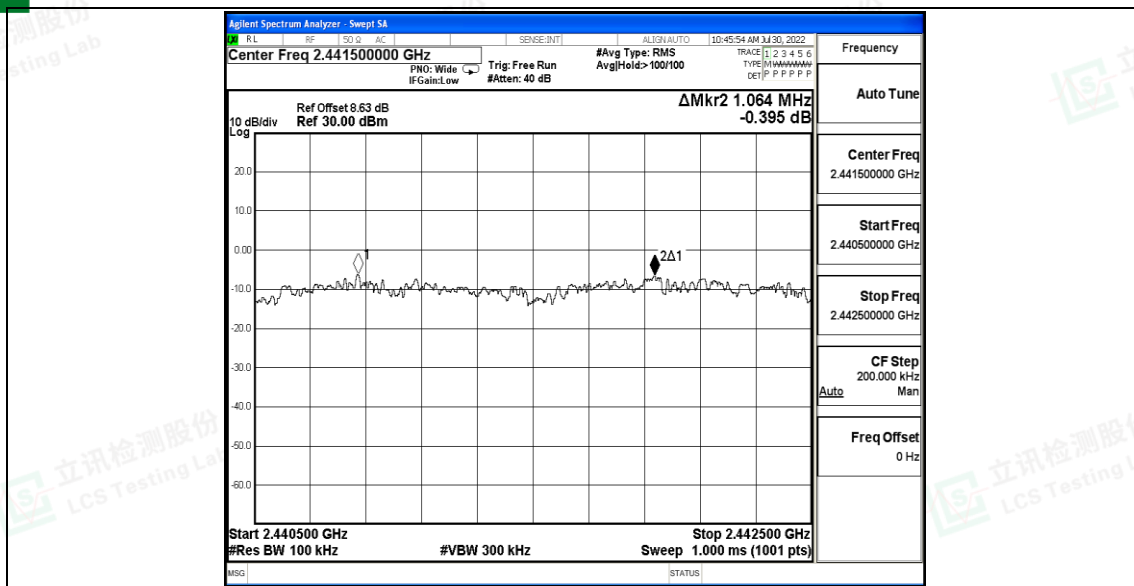
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant	Hop	1.052	≥ 0.708	PASS
2DH5	Ant	Hop	1.114	≥ 0.896	PASS
3DH5	Ant	Hop	1.064	≥ 0.872	PASS





Test Graphs







A.4 Time of occupancy

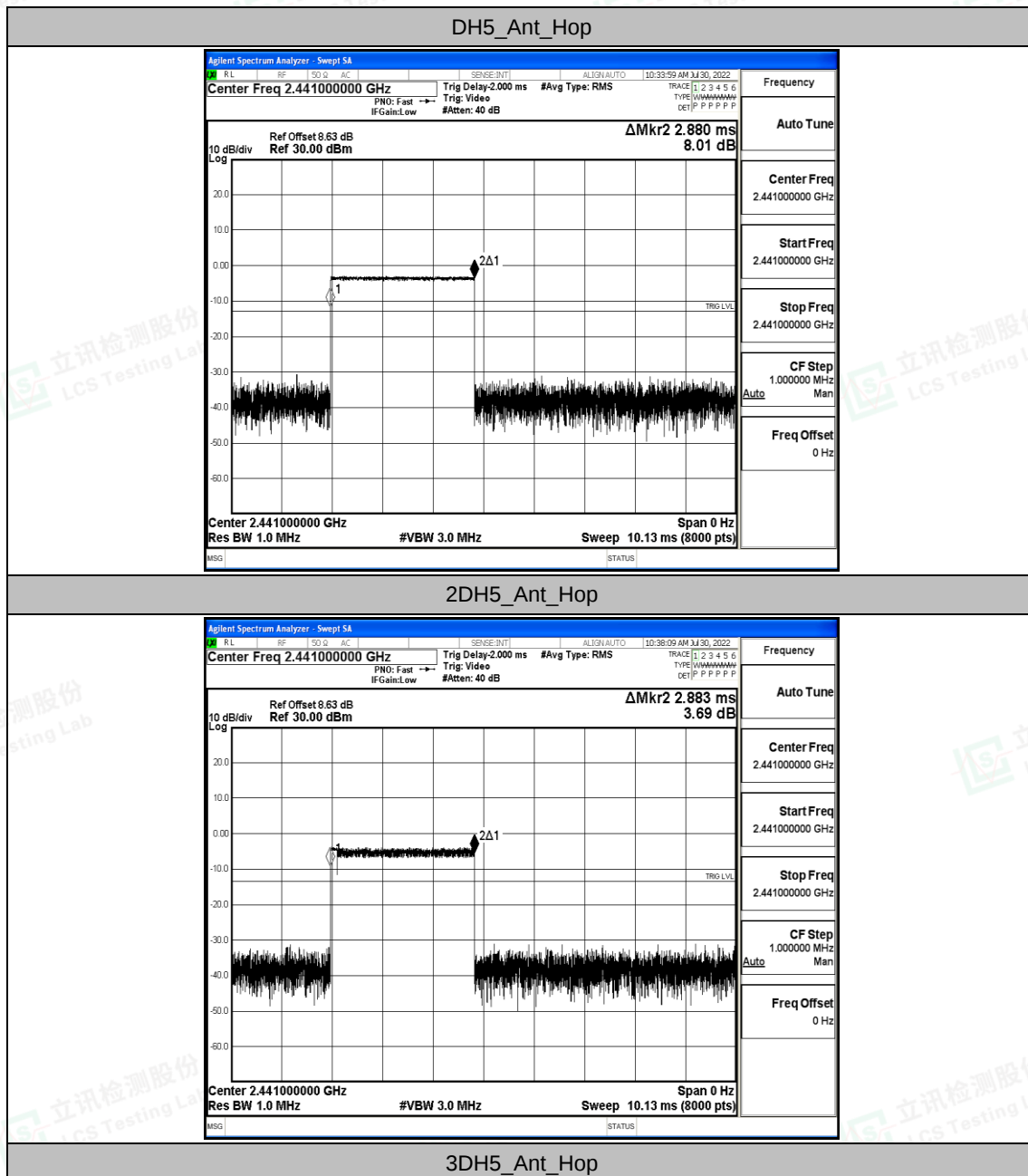
Test Result

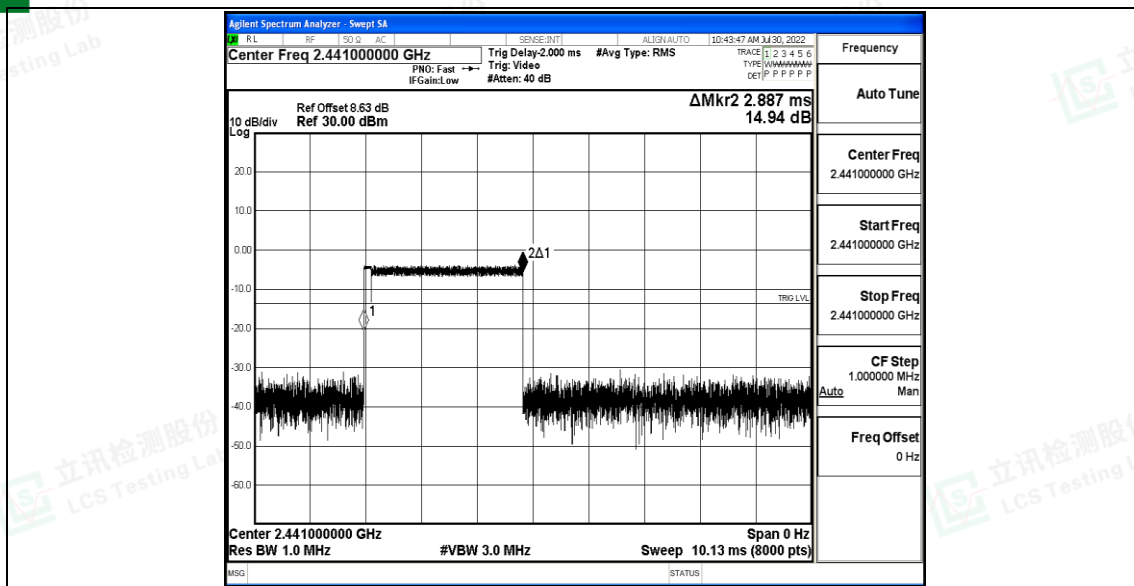
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant	Hop	2.89	106.67	0.308	≤0.4	PASS





Test Graphs







A.5 Number of hopping channels

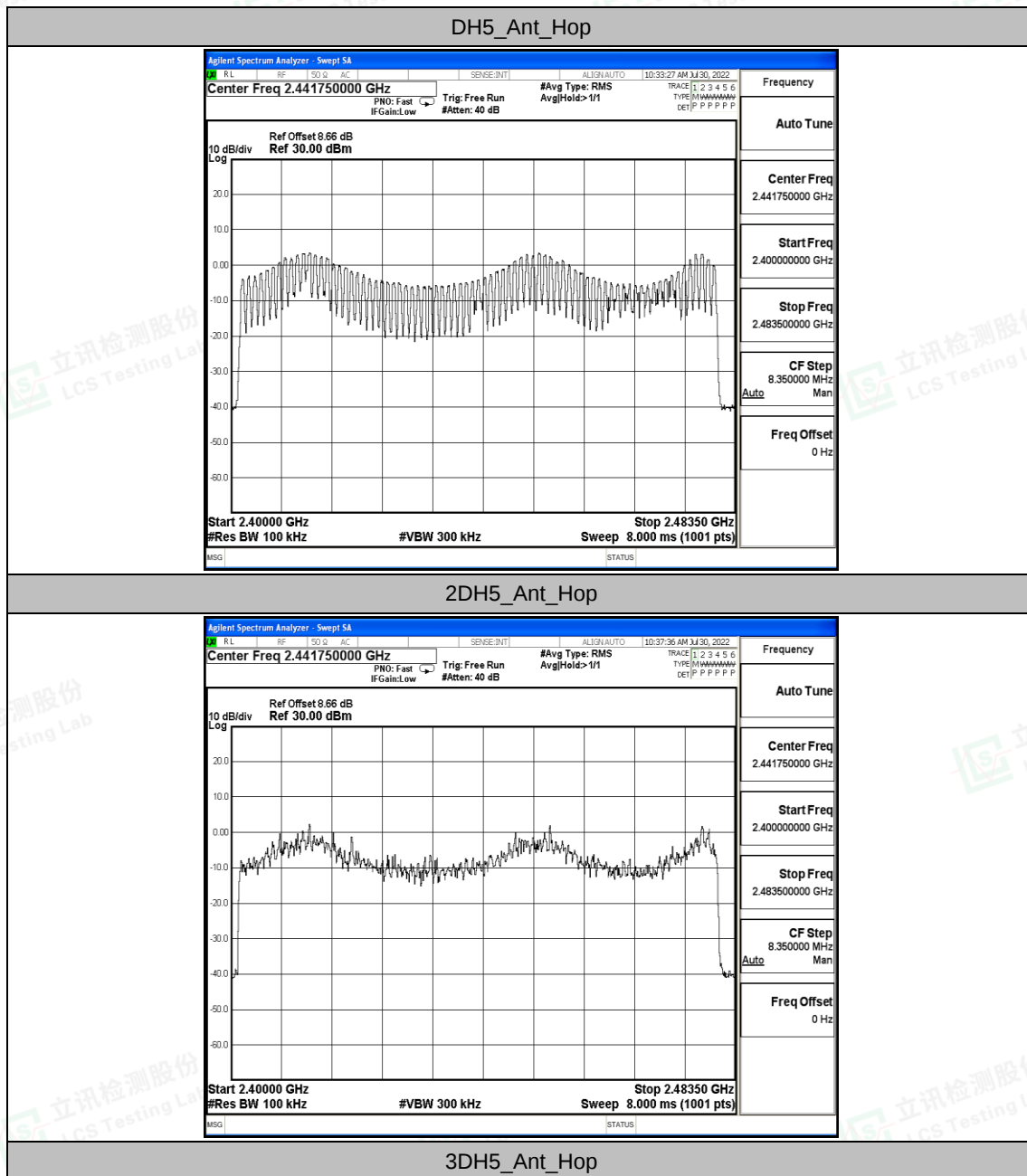
Test Result

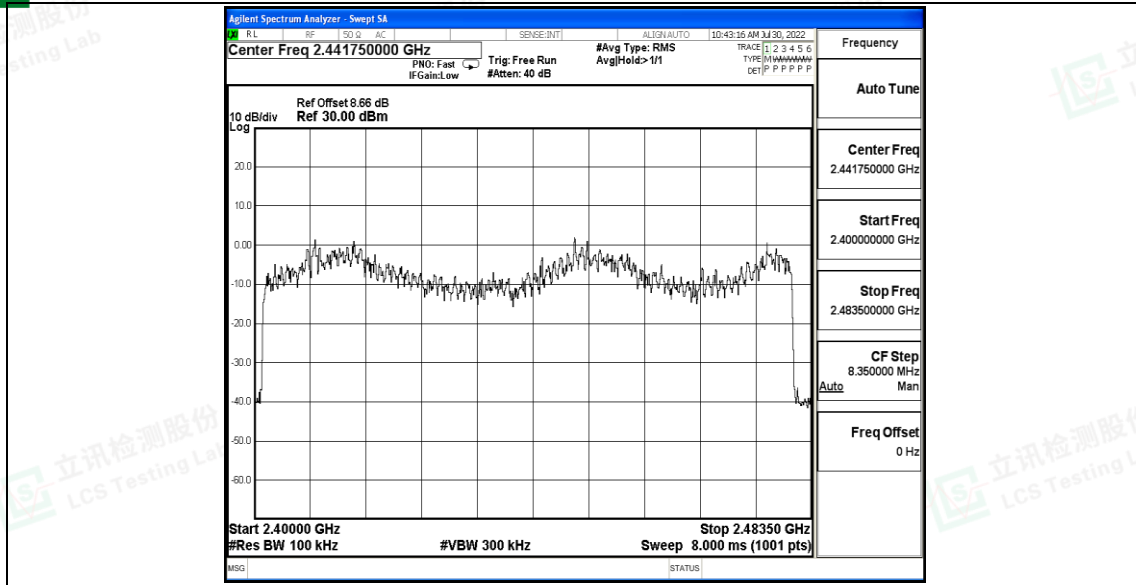
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant	Hop	79	≥15	PASS
2DH5	Ant	Hop	79	≥15	PASS
3DH5	Ant	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	Low	2402	-3.86	-58.75	≤ -23.86	PASS
		High	2480	-0.34	-57.12	≤ -20.34	PASS
		Low	Hop_2402	-3.13	-58.96	≤ -23.13	PASS
		High	Hop_2480	2.83	-57.09	≤ -17.17	PASS
2DH5	Ant	Low	2402	-6.64	-55.16	≤ -26.64	PASS
		High	2480	-0.63	-57.5	≤ -20.63	PASS
		Low	Hop_2402	-7.10	-58.13	≤ -27.1	PASS
		High	Hop_2480	1.07	-58.11	≤ -18.93	PASS
3DH5	Ant	Low	2402	-4.10	-56.14	≤ -24.1	PASS
		High	2480	-1.05	-57.93	≤ -21.05	PASS
		Low	Hop_2402	-6.29	-58.73	≤ -26.29	PASS
		High	Hop_2480	0.22	-57.39	≤ -19.78	PASS





Test Graphs

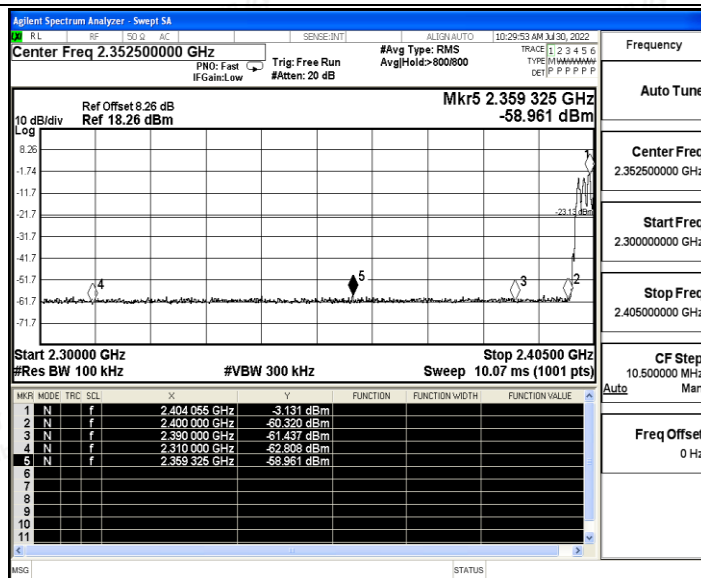


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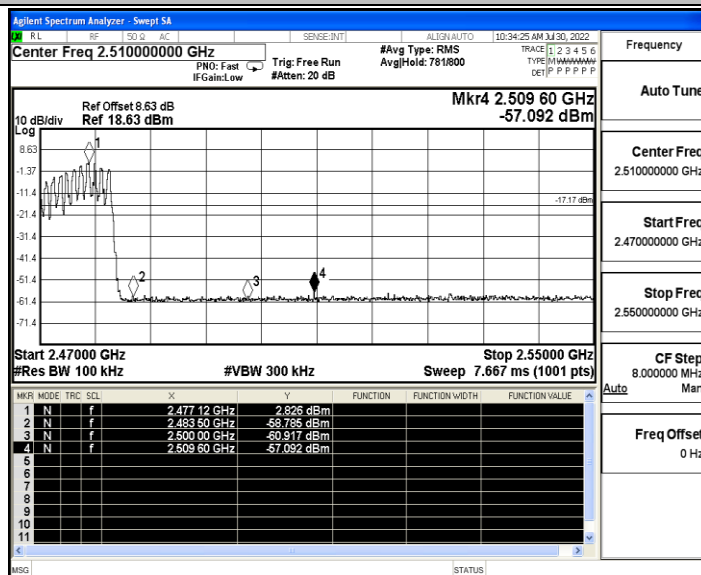
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

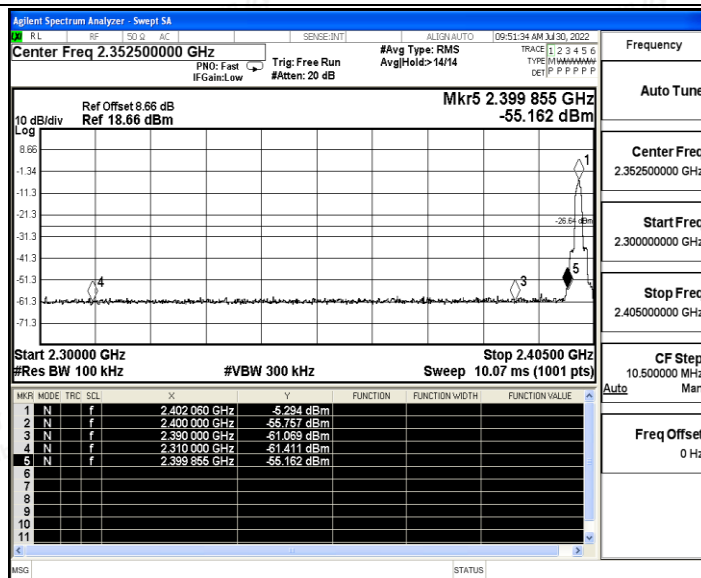


DH5_Ant_High_Hop_2480

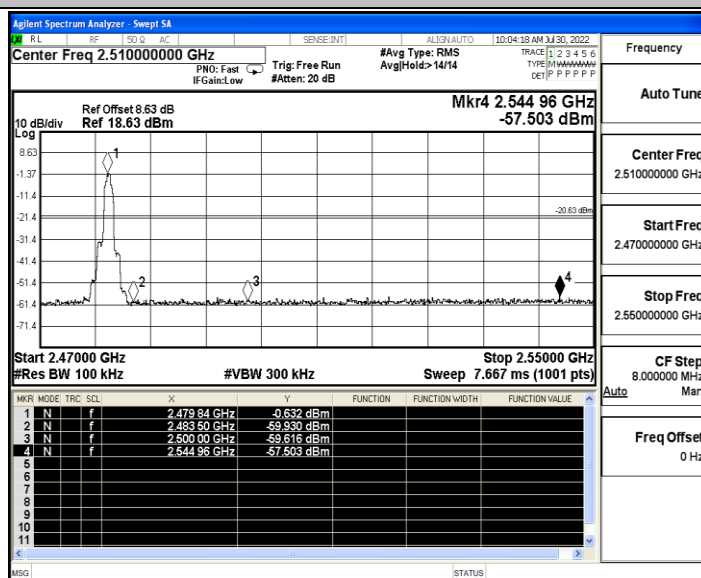


2DH5_Ant_Low_2402



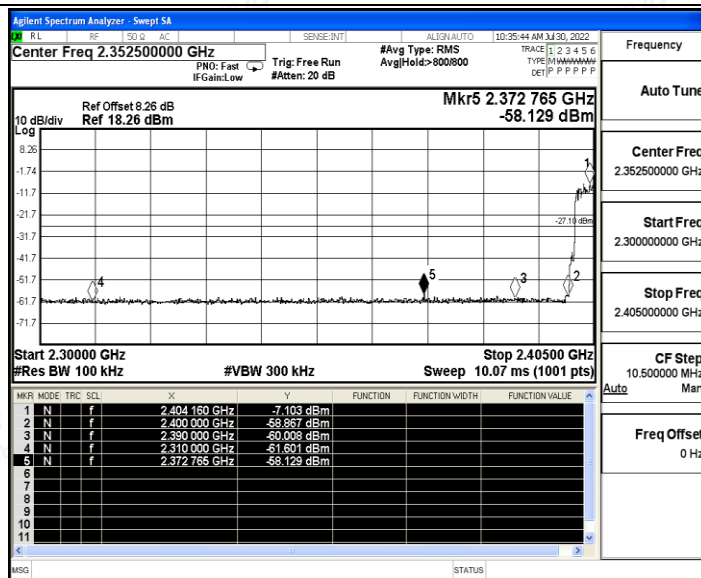


2DH5_Ant_High_2480

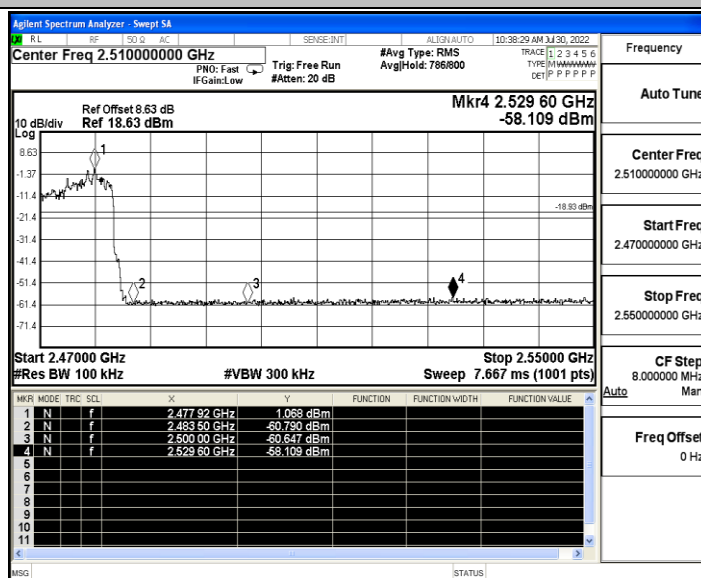


2DH5_Ant_Low_Hop_2402





2DH5_Ant_High_Hop_2480



3DH5_Ant_Low_2402

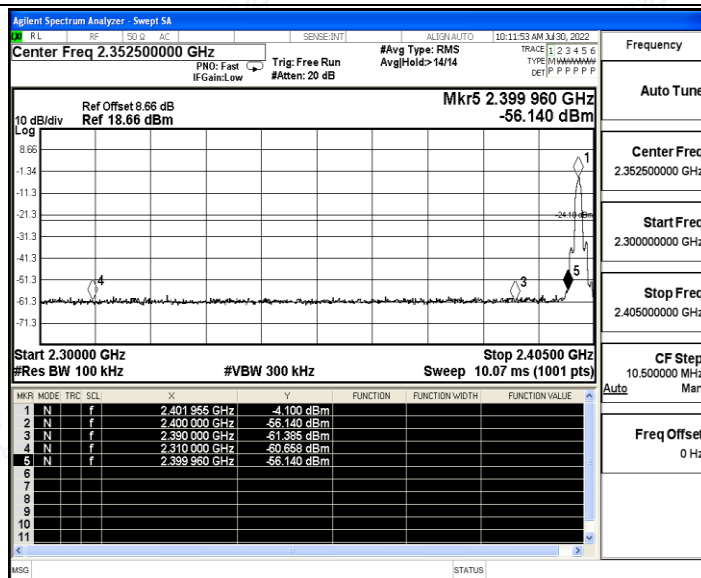


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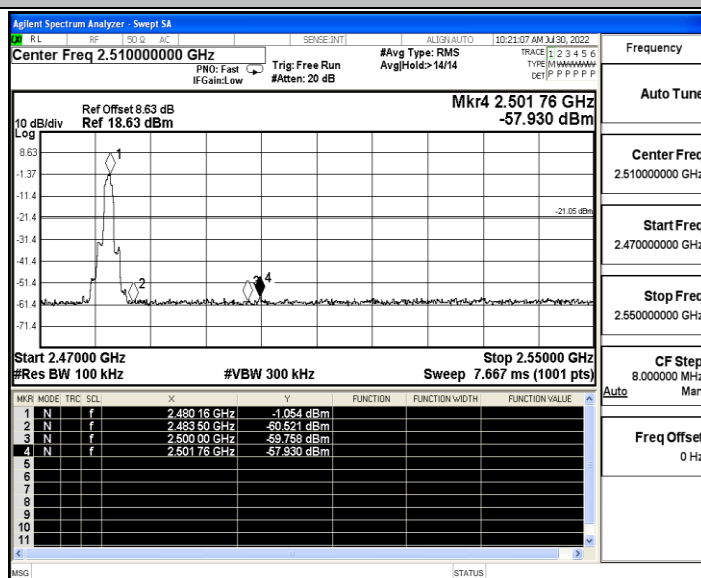
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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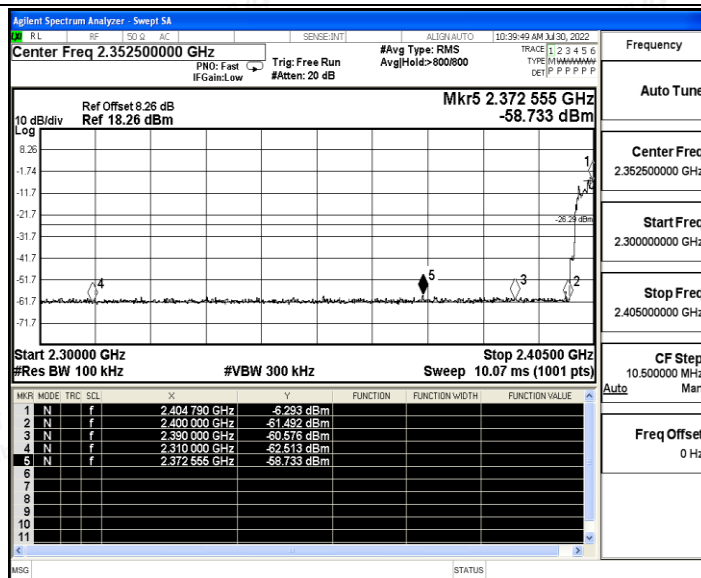


3DH5_Ant_High_2480

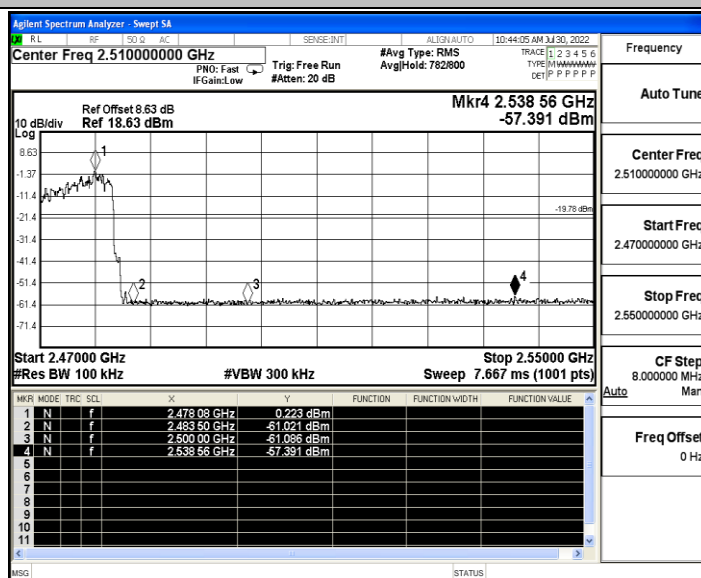


3DH5_Ant_Low_Hop_2402





3DH5_Ant_High_Hop_2480





A.7 Conducted Spurious Emission

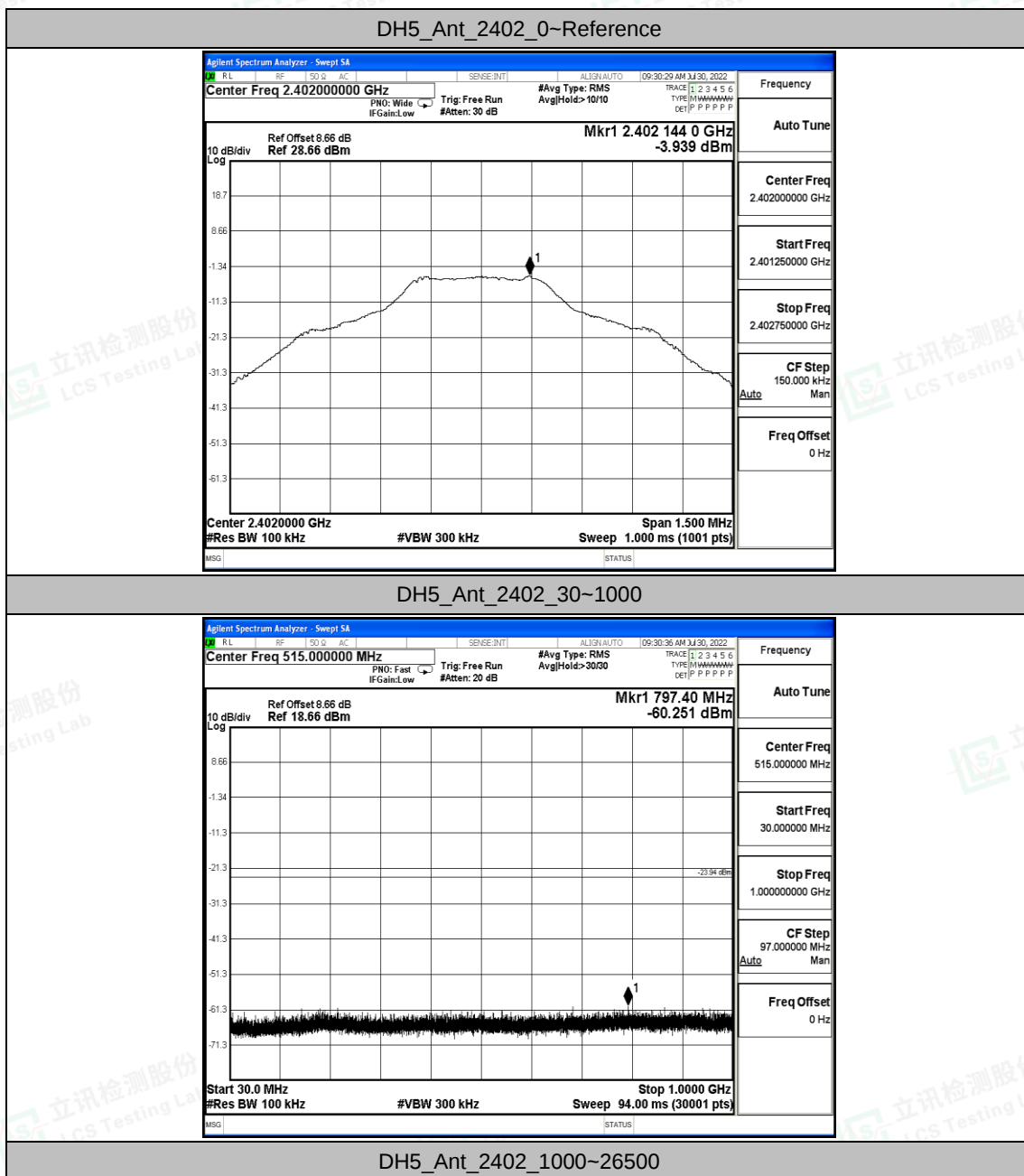
Test Result

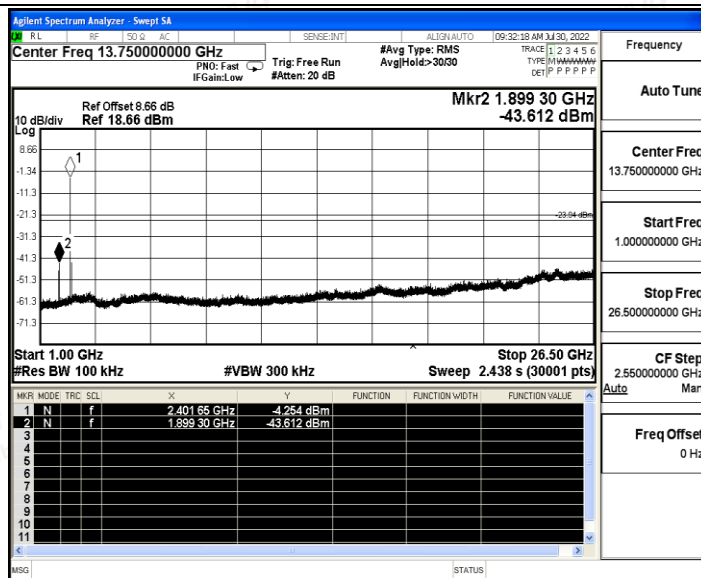
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant	2402	Reference	-3.94	-3.94	---	PASS
			30~1000	-3.94	-60.25	≤-23.94	PASS
			1000~26500	-3.94	-43.61	≤-23.94	PASS
		2441	Reference	-4.00	-4.00	---	PASS
			30~1000	-4.00	-60.55	≤-24	PASS
			1000~26500	-4.00	-45.98	≤-24	PASS
		2480	Reference	-0.13	-0.13	---	PASS
			30~1000	-0.13	-60.93	≤-20.13	PASS
			1000~26500	-0.13	-44.67	≤-20.13	PASS
2DH5	Ant	2402	Reference	-4.45	-4.45	---	PASS
			30~1000	-4.45	-60.66	≤-24.45	PASS
			1000~26500	-4.45	-39.85	≤-24.45	PASS
		2441	Reference	-4.49	-4.49	---	PASS
			30~1000	-4.49	-60.43	≤-24.49	PASS
			1000~26500	-4.49	-44.57	≤-24.49	PASS
		2480	Reference	-0.50	-0.50	---	PASS
			30~1000	-0.50	-60.09	≤-20.5	PASS
			1000~26500	-0.50	-40.23	≤-20.5	PASS
3DH5	Ant	2402	Reference	-4.32	-4.32	---	PASS
			30~1000	-4.32	-60.74	≤-24.32	PASS
			1000~26500	-4.32	-45.87	≤-24.32	PASS
		2441	Reference	-4.34	-4.34	---	PASS
			30~1000	-4.34	-60.96	≤-24.34	PASS
			1000~26500	-4.34	-43.61	≤-24.34	PASS
		2480	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-60.57	≤-20.7	PASS
			1000~26500	-0.70	-46.31	≤-20.7	PASS



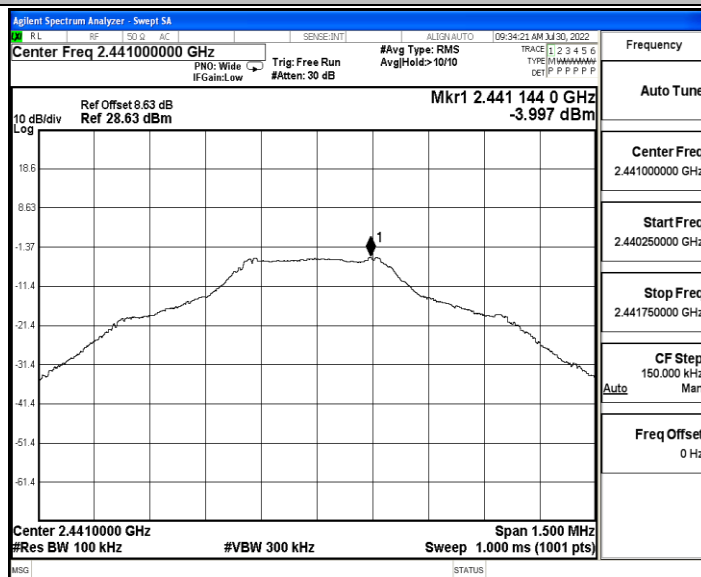


Test Graphs





DH5_Ant_2441_0~Reference



DH5_Ant_2441_30~1000

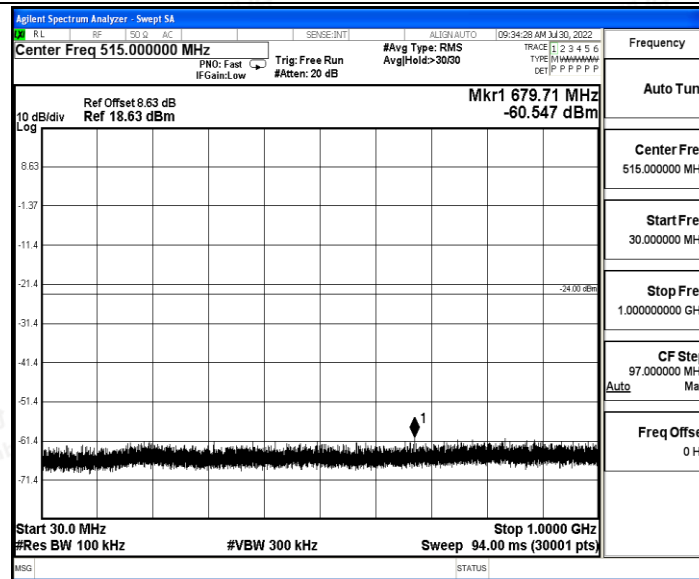


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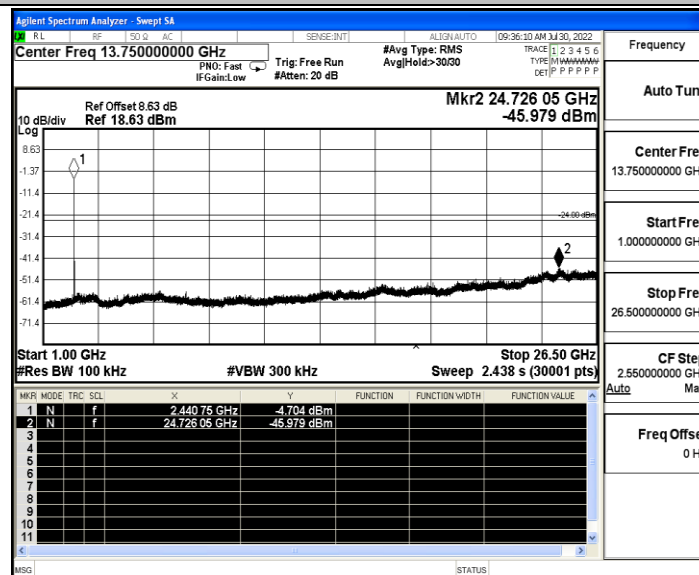
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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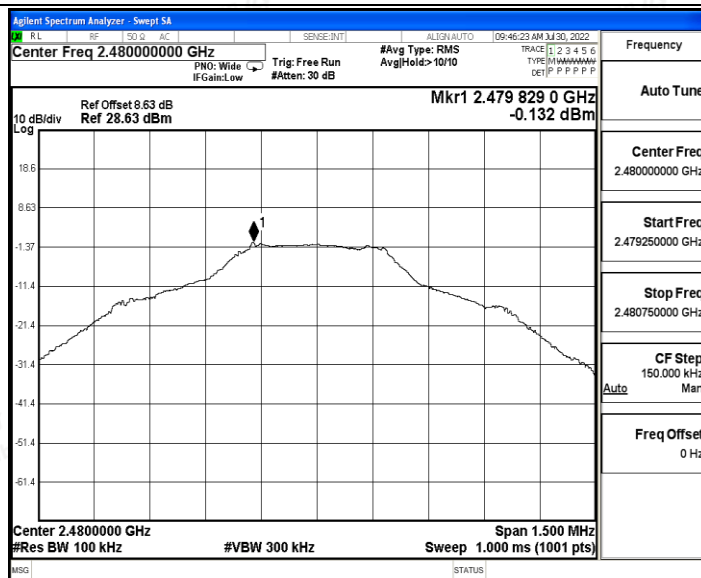


DH5_Ant_2441_1000~26500

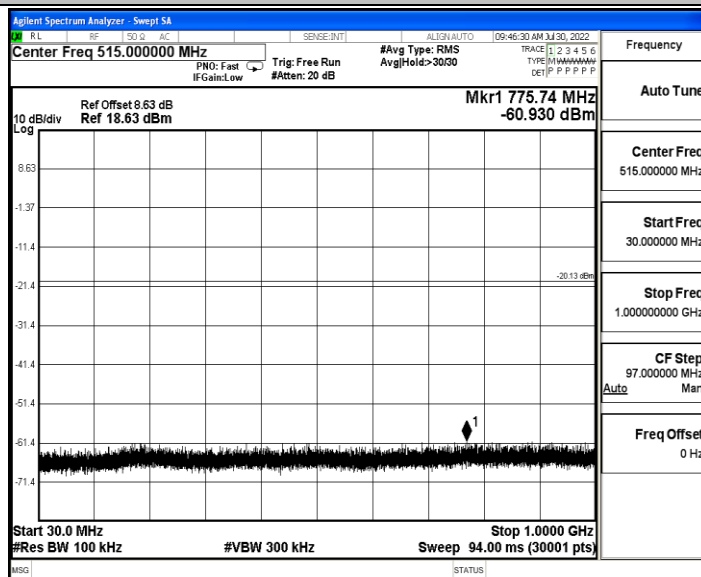


DH5_Ant_2480_0~Reference



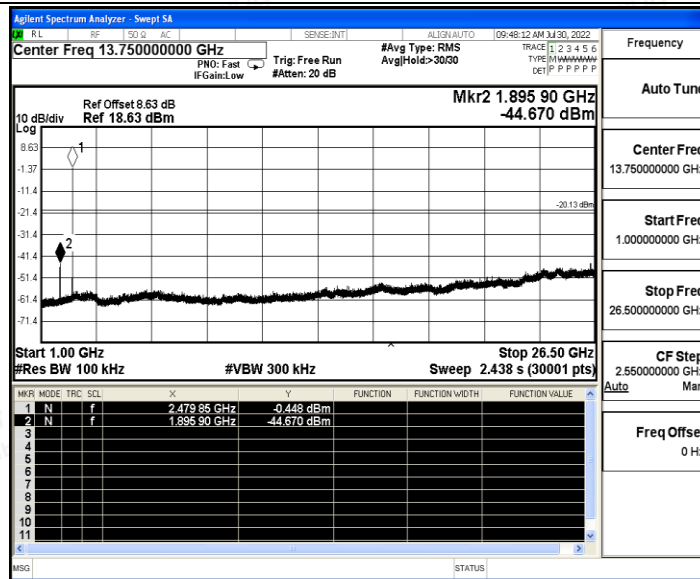


DH5_Ant_2480_30~1000

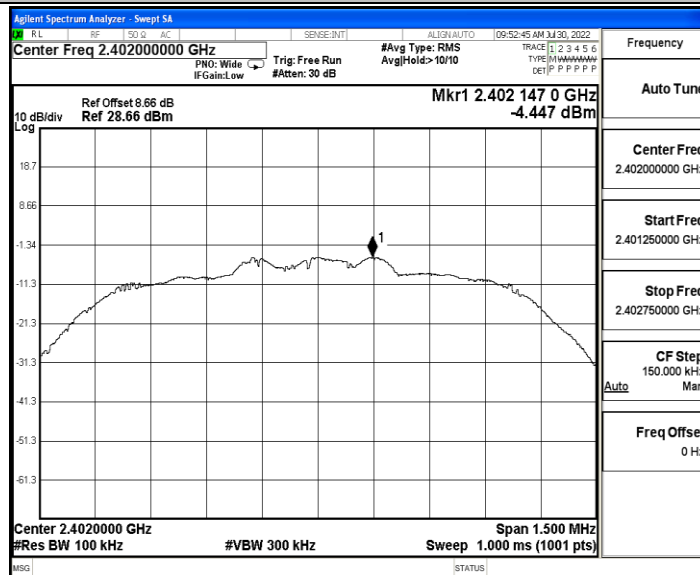


DH5_Ant_2480_1000~26500





2DH5_Ant_2402_0-Reference



2DH5_Ant_2402_30~1000

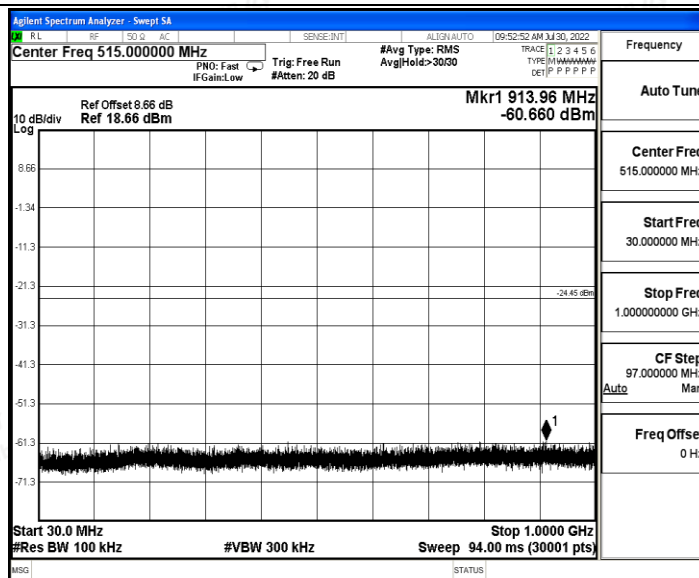


Shenzhen LCS Compliance Testing Laboratory Ltd.

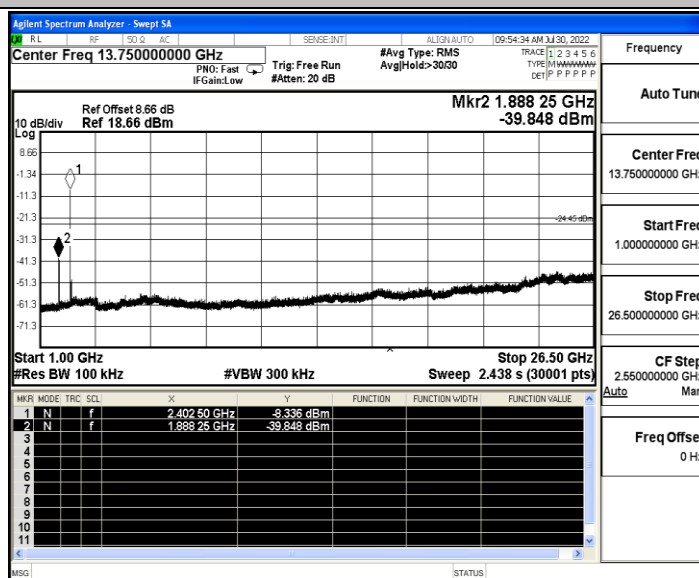
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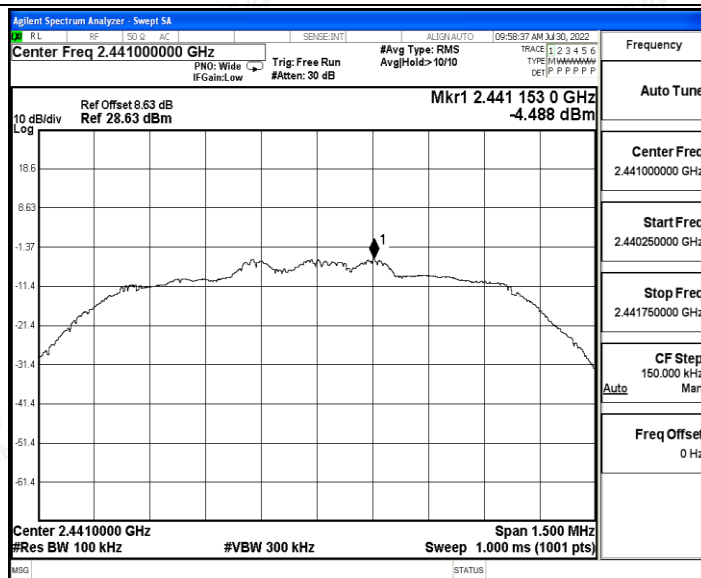


2DH5_Ant_2402_1000~26500

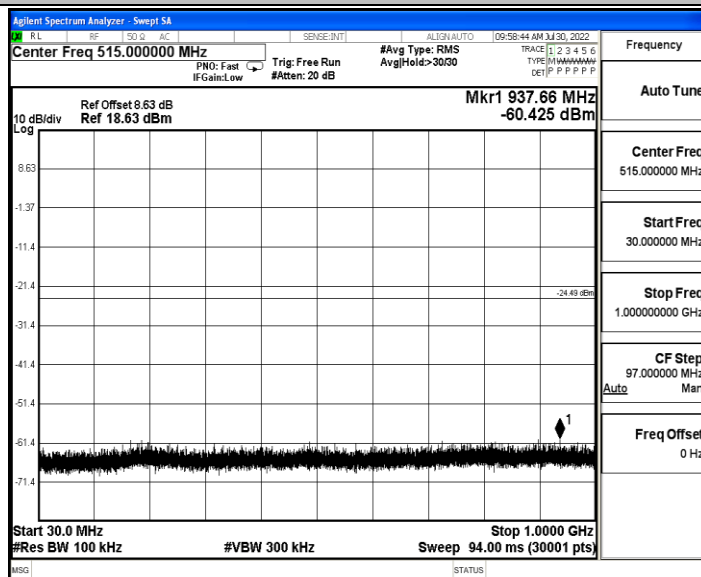


2DH5_Ant_2441_0~Reference



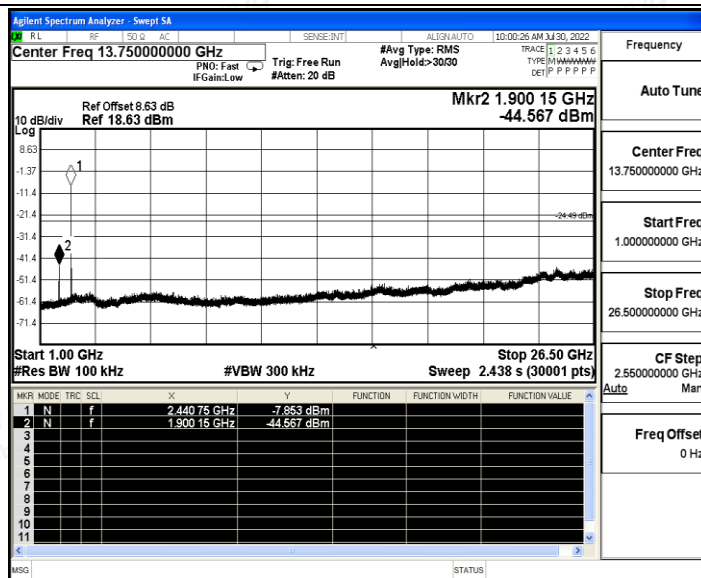


2DH5_Ant_2441_30~1000

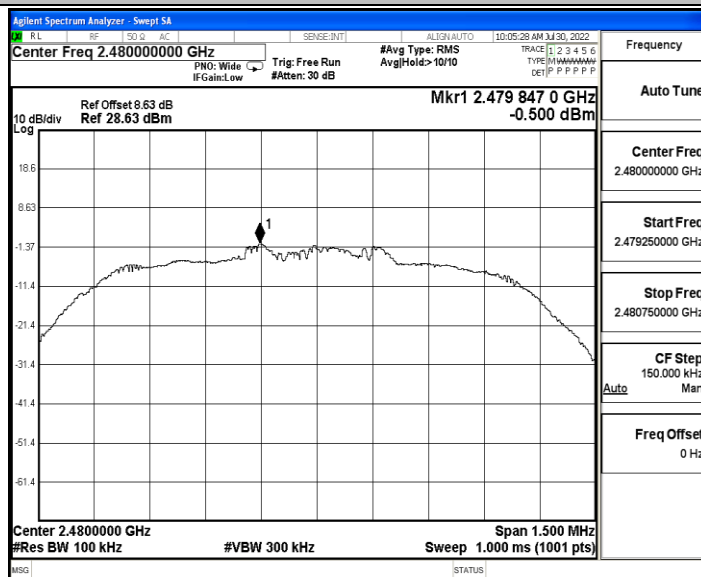


2DH5_Ant_2441_1000~26500





2DH5_Ant_2480_0-Reference



2DH5_Ant_2480_30~1000

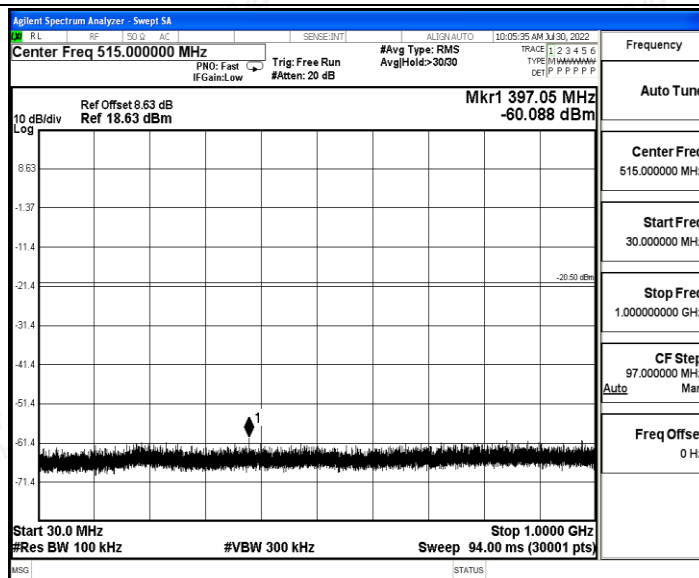


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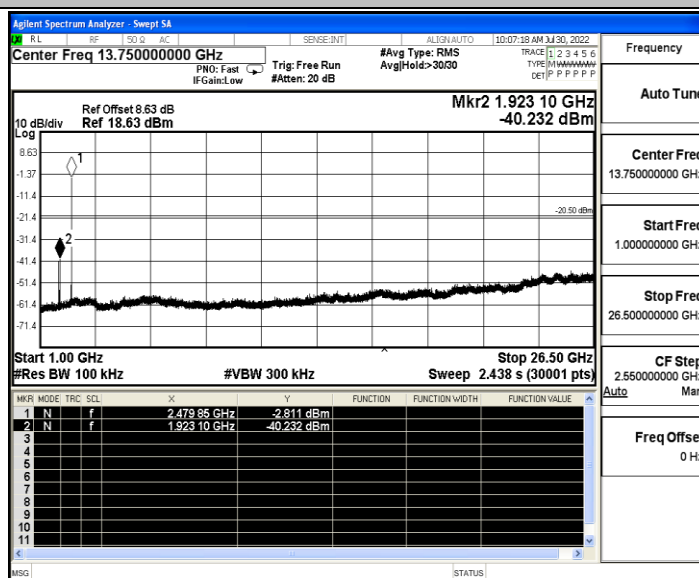
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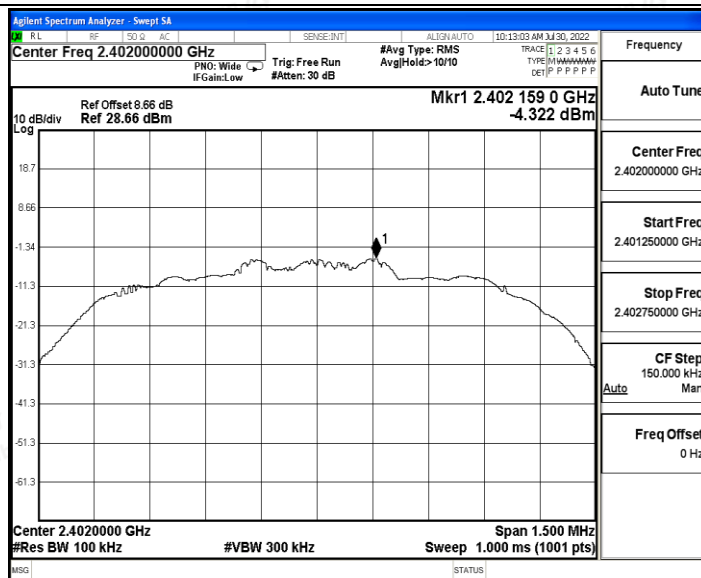


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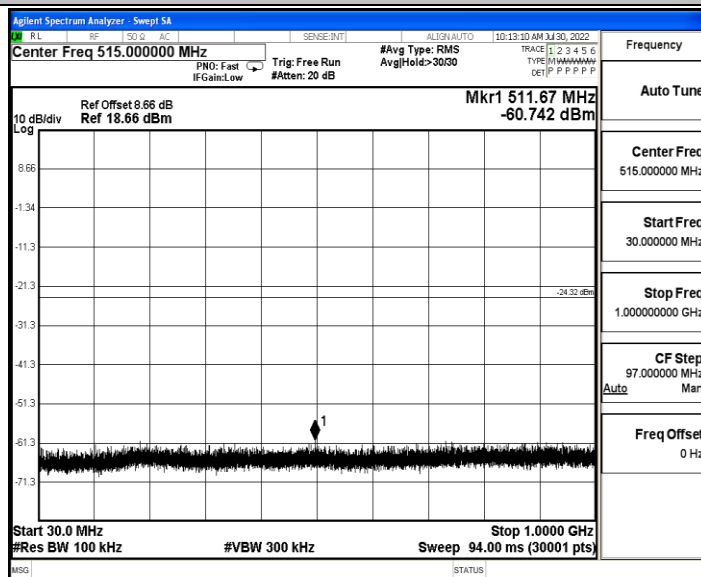


3DH5_Ant_2402_0-Reference



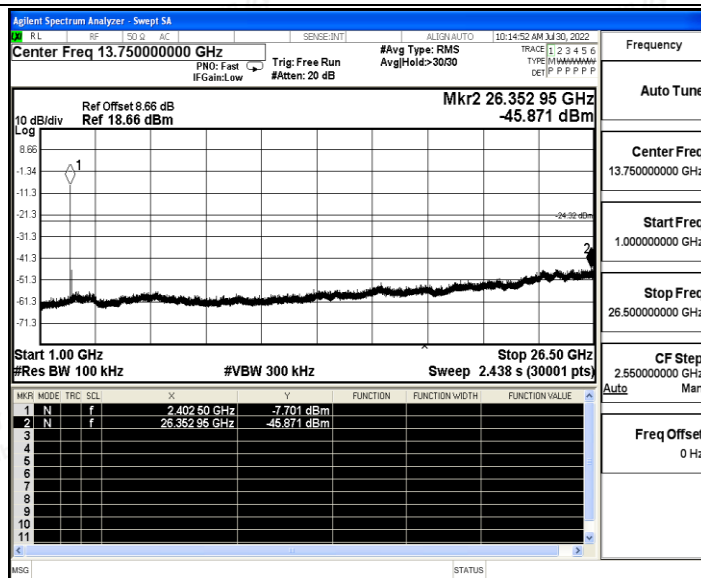


3DH5_Ant_2402_30~1000

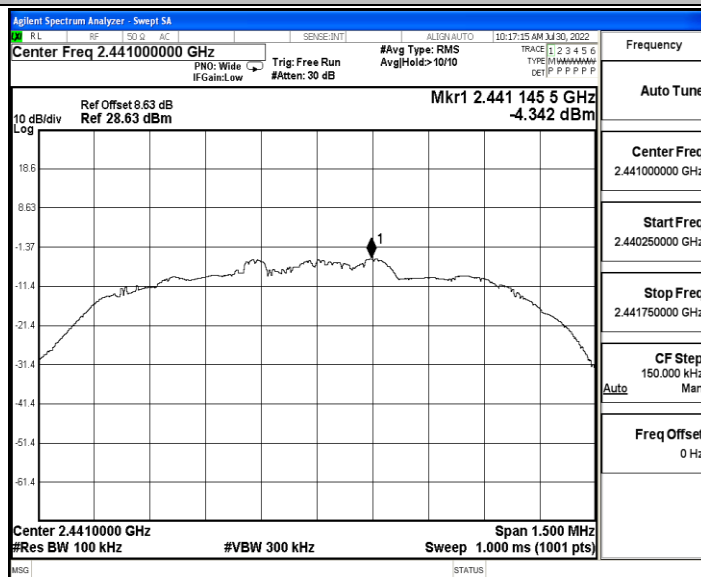


3DH5_Ant_2402_1000~26500





3DH5_Ant_2441_0~Reference



3DH5_Ant_2441_30~1000

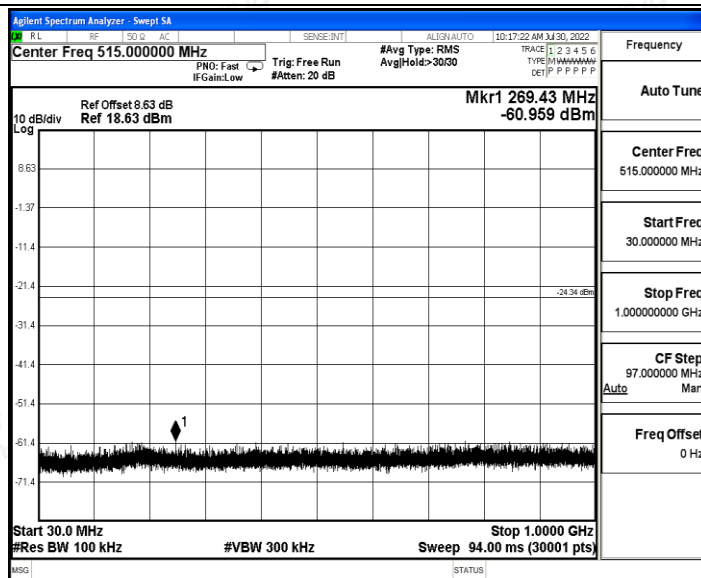


Shenzhen LCS Compliance Testing Laboratory Ltd.

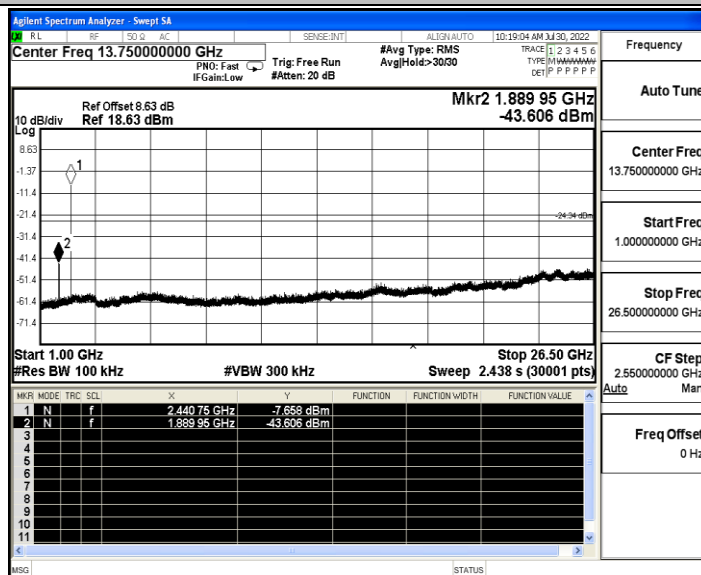
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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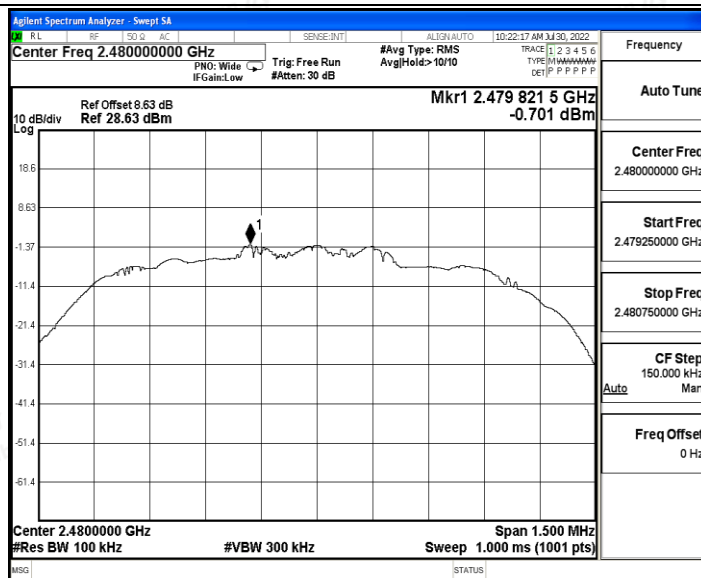


3DH5_Ant_2441_1000~26500

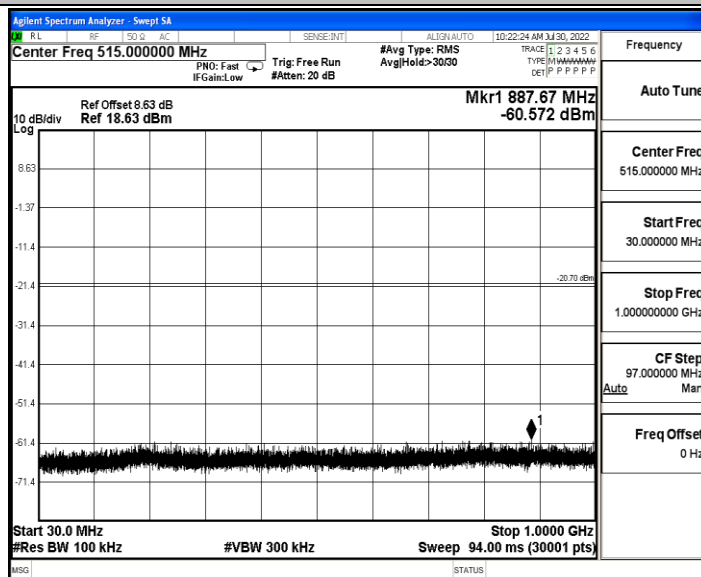


3DH5_Ant_2480_0~Reference



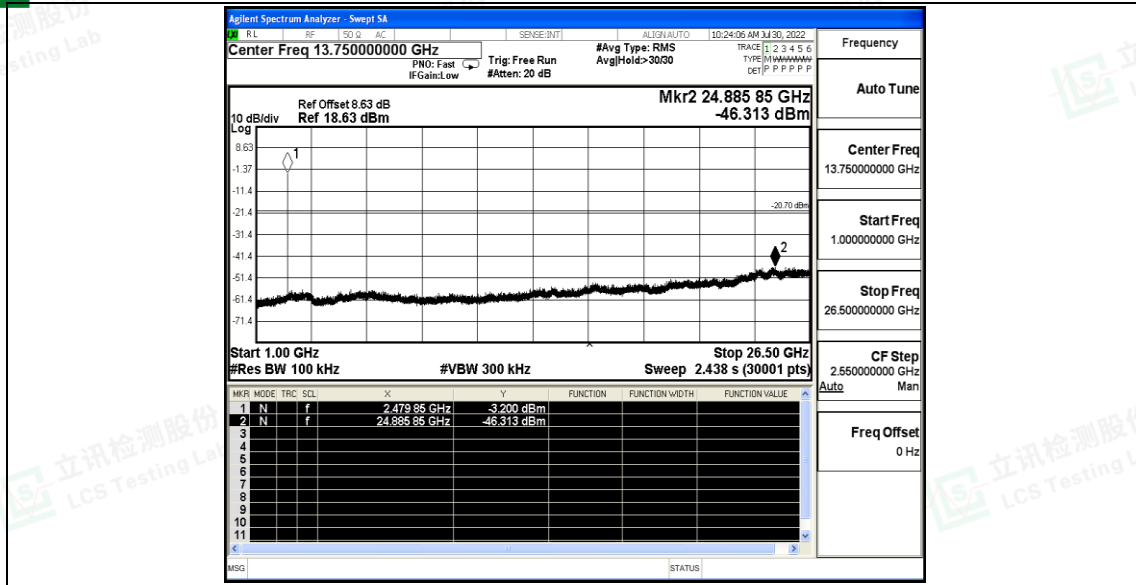


3DH5_Ant_2480_30~1000



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	-58.12	≤-41.20	37.08	≤54	PASS
				AV	2387.465	-57.43	≤-41.20	37.77	≤54	PASS
				AV	2390.000	-57.62	≤-41.20	37.58	≤54	PASS
				Peak	2310.000	-48.78	≤-21.20	46.42	≤74	PASS
				Peak	2377.385	-45.76	≤-21.20	49.44	≤74	PASS
				Peak	2390.000	-48.09	≤-21.20	47.11	≤74	PASS
		High	2480	AV	2483.500	-55.78	≤-41.20	39.42	≤54	PASS
				AV	2483.520	-55.78	≤-41.20	39.42	≤54	PASS
				AV	2500.000	-57.17	≤-41.20	38.03	≤54	PASS
				Peak	2483.500	-47.94	≤-21.20	47.26	≤74	PASS
				Peak	2491.520	-46.25	≤-21.20	48.95	≤74	PASS
				Peak	2500.000	-47.65	≤-21.20	47.55	≤74	PASS
2DH5	Ant	Low	2402	AV	2310.000	-57.97	≤-41.20	37.23	≤54	PASS
				AV	2387.045	-57.35	≤-41.20	37.85	≤54	PASS
				AV	2390.000	-57.63	≤-41.20	37.57	≤54	PASS
				Peak	2310.000	-48.64	≤-21.20	46.56	≤74	PASS
				Peak	2366.465	-46.31	≤-21.20	48.89	≤74	PASS
				Peak	2390.000	-47.54	≤-21.20	47.66	≤74	PASS
		High	2480	AV	2483.500	-42.7	≤-41.20	52.50	≤54	PASS
				AV	2483.520	-42.7	≤-41.20	52.50	≤54	PASS
				AV	2500.000	-57.04	≤-41.20	38.16	≤54	PASS
				Peak	2483.500	-47.41	≤-21.20	47.79	≤74	PASS
				Peak	2492.080	-46.3	≤-21.20	48.90	≤74	PASS
				Peak	2500.000	-47.41	≤-21.20	47.79	≤74	PASS
3DH5	Ant	Low	2402	AV	2310.000	-58.12	≤-41.20	37.08	≤54	PASS
				AV	2389.670	-57.45	≤-41.20	37.75	≤54	PASS
				AV	2390.000	-57.65	≤-41.20	37.55	≤54	PASS
				Peak	2310.000	-49.14	≤-21.20	46.06	≤74	PASS
				Peak	2361.320	-45.94	≤-21.20	49.26	≤74	PASS
				Peak	2390.000	-47.71	≤-21.20	47.49	≤74	PASS
		High	2480	AV	2483.500	-55.23	≤-41.20	39.97	≤54	PASS
				AV	2483.520	-55.23	≤-41.20	39.97	≤54	PASS
				AV	2500.000	-57.14	≤-41.20	38.06	≤54	PASS
				Peak	2483.500	-36.84	≤-21.20	58.36	≤74	PASS
				Peak	2485.040	-35.56	≤-21.20	59.64	≤74	PASS



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			Peak	2500.000	-48.27	≤-21.20	46.93	≤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.

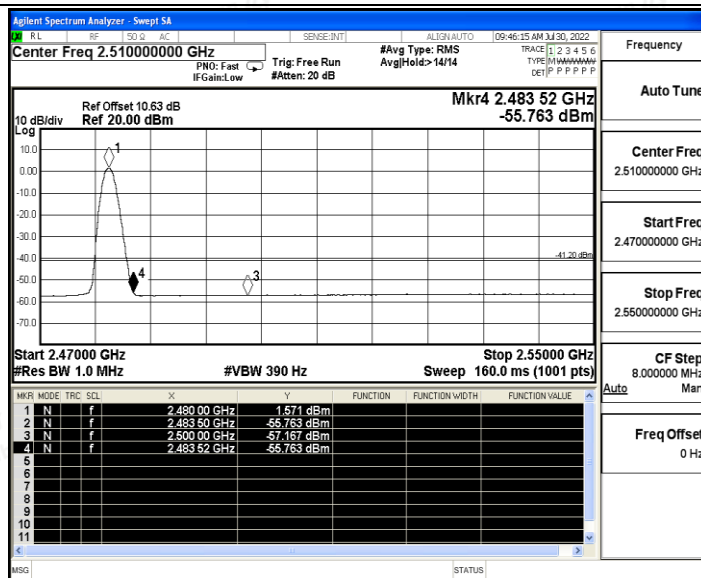


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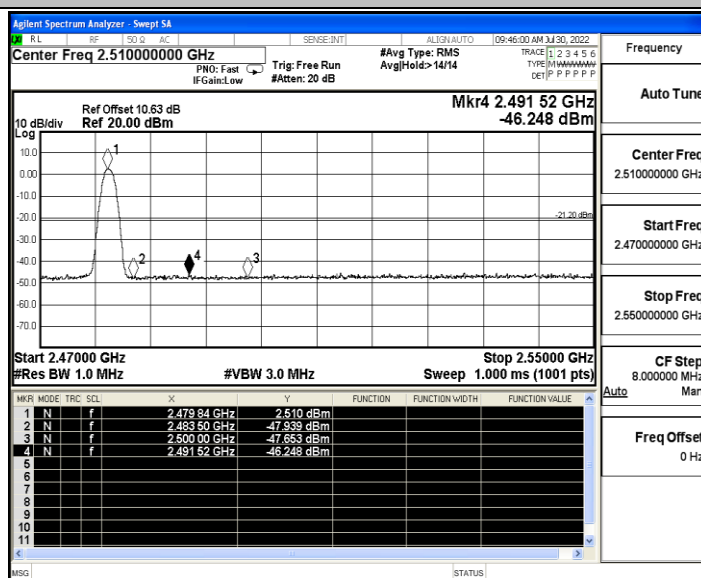


Test Graphs



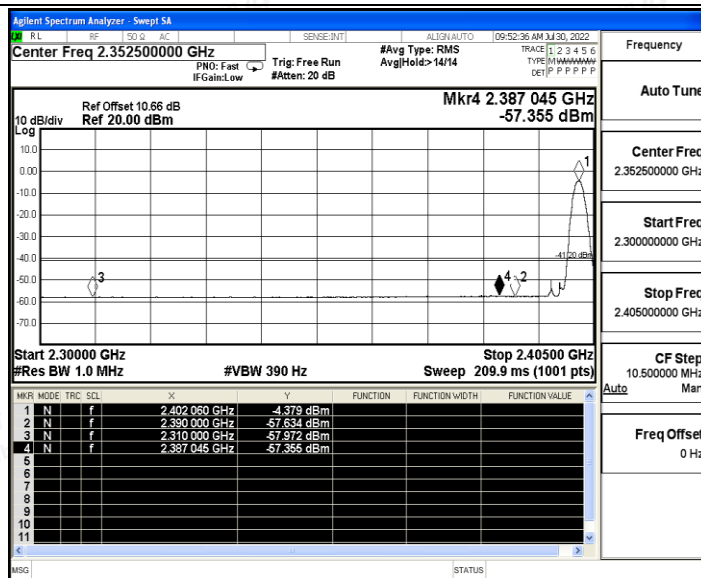


DH5_Ant_High_2480_Peak

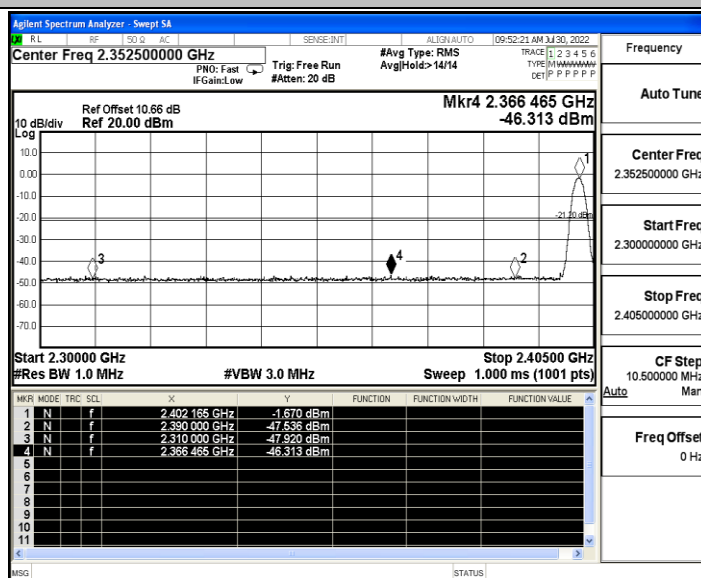


2DH5_Ant_Low_2402_AV



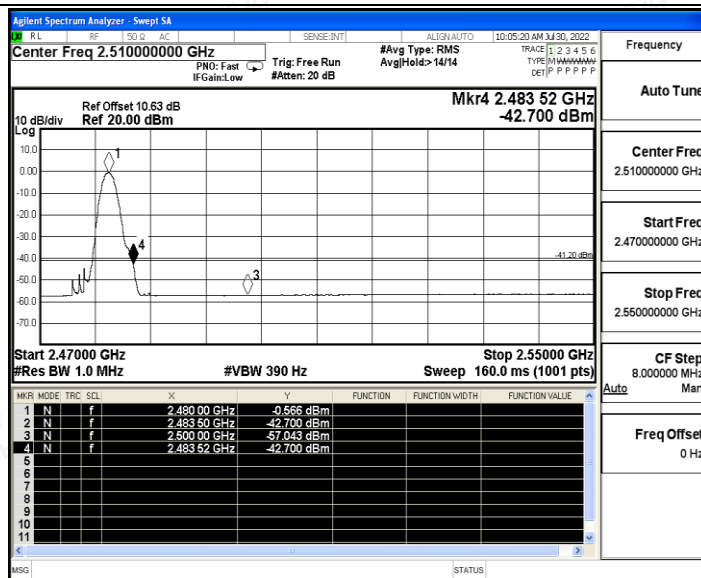


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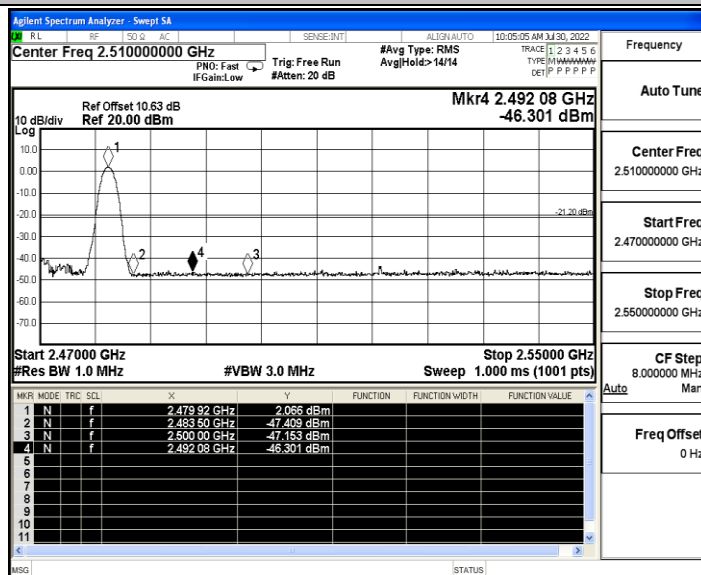


2DH5_Ant_High_2480_AV





2DH5_Ant_High_2480_Peak



3DH5_Ant_Low_2402_AV

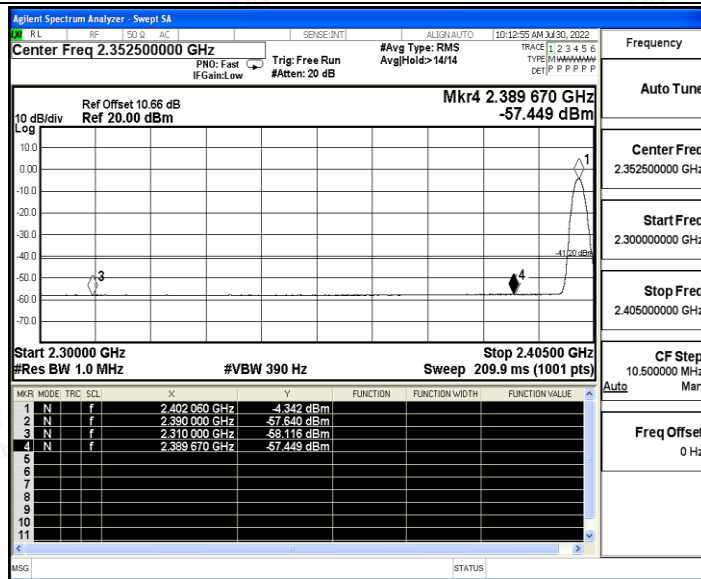


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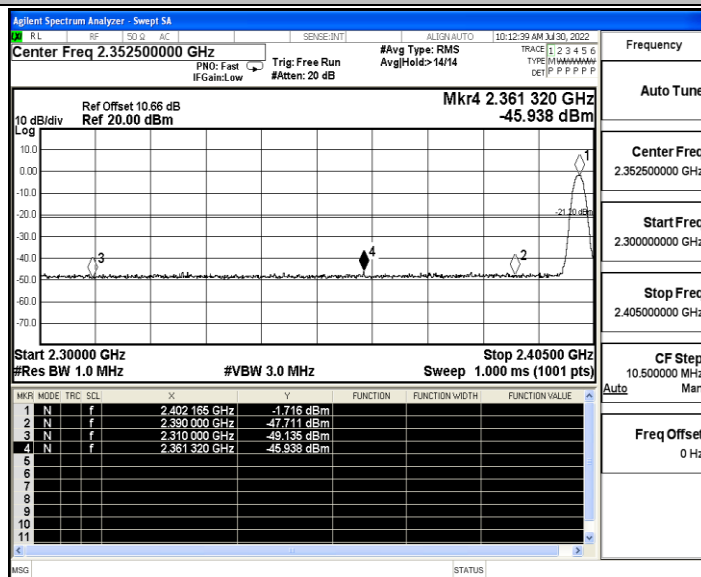
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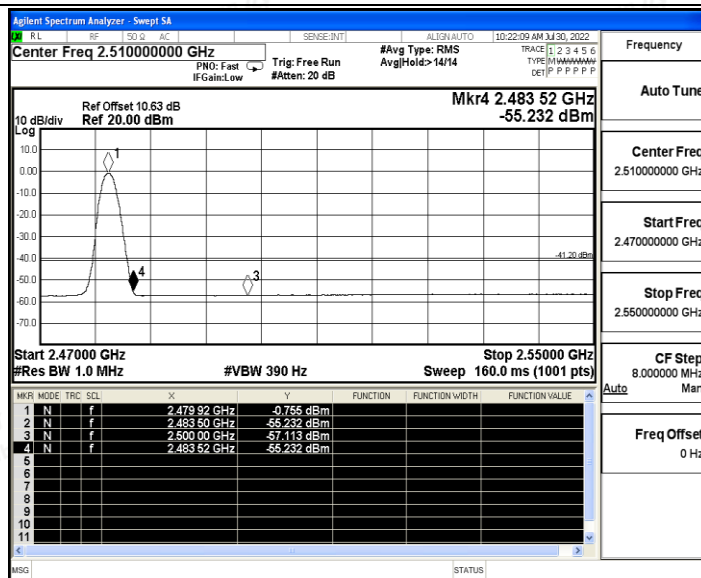


3DH5_Ant_Low_2402_Peak



3DH5_Ant_High_2480_AV





3DH5_Ant_High_2480_Peak

