



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: STAGE & STUDIO DJ SPEAKER & MIXER BUNDLE KIT

Test Model: PPHP28AMX

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	kayHu Kay Hu
Supervised by:	Libu Li Huan





A.1 20dB Emission Bandwidth

Test Result

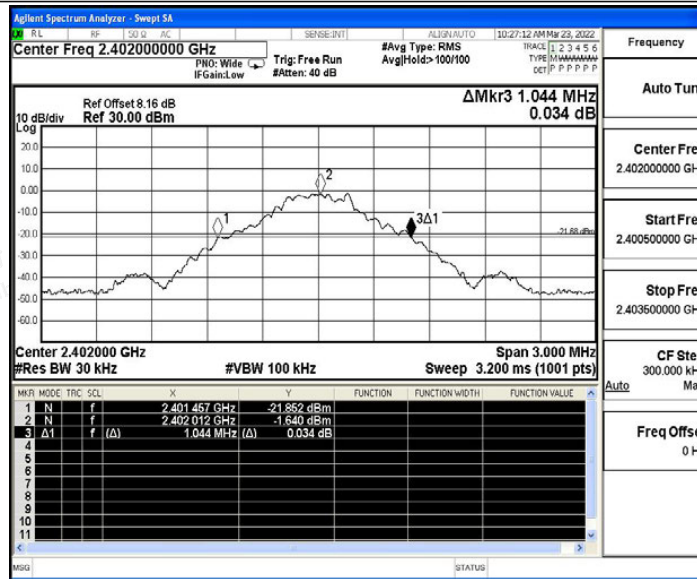
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.044	2401.457	2402.501	---	---
		2441	1.038	2440.460	2441.498	---	---
		2480	1.038	2479.463	2480.501	---	---
2DH5	Ant1	2402	1.320	2401.337	2402.657	---	---
		2441	1.320	2440.337	2441.657	---	---
		2480	1.290	2479.361	2480.651	---	---



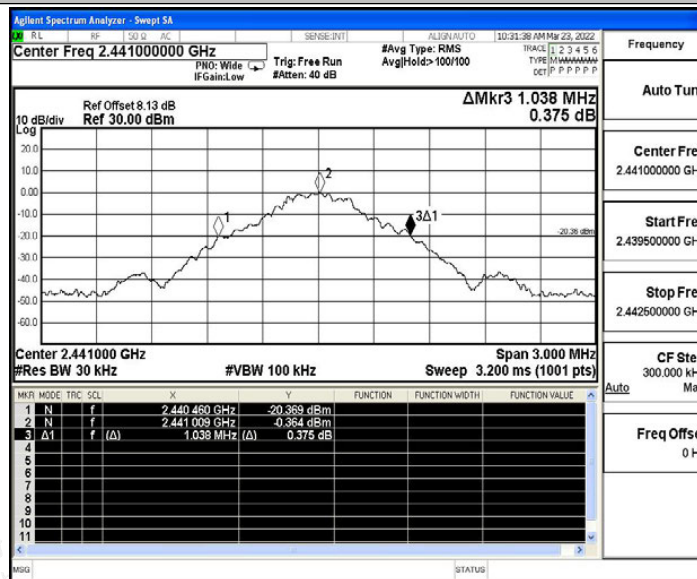


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

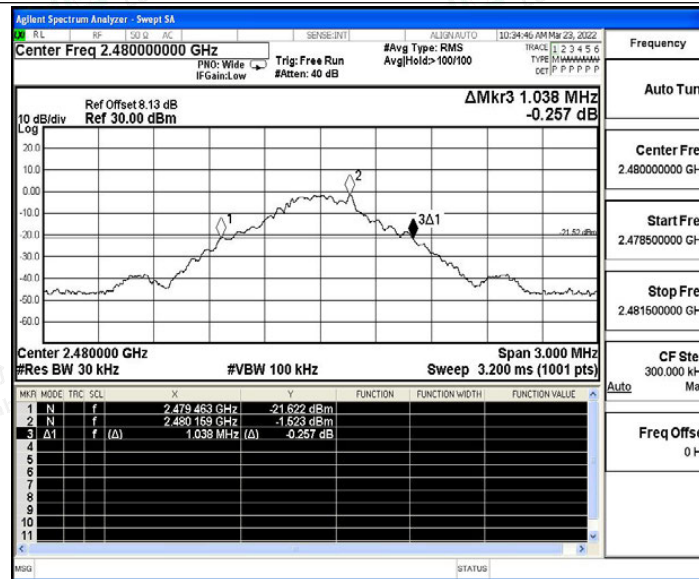


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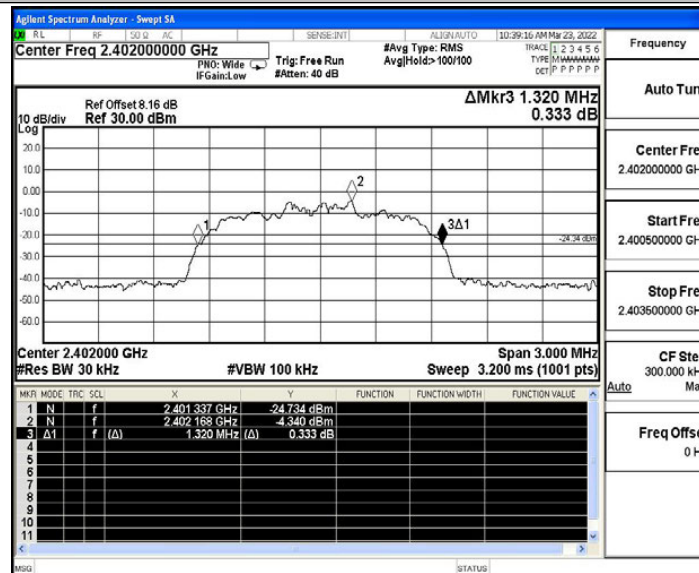
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2DH5_Ant1_2402



2DH5_Ant1_2441

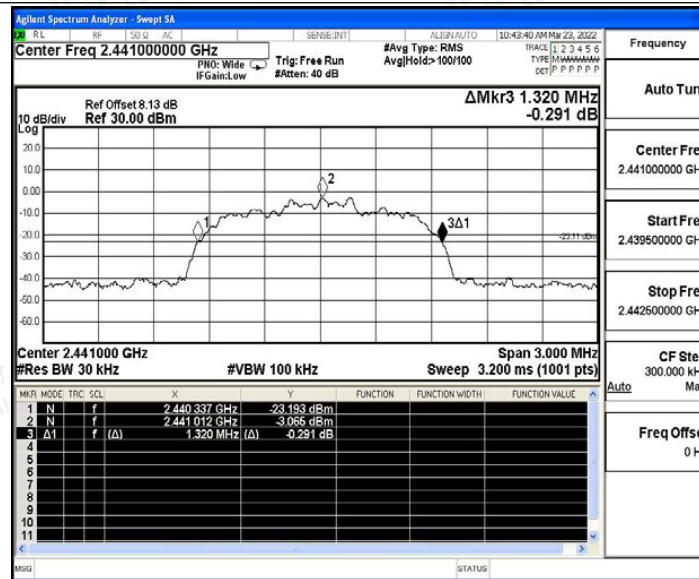


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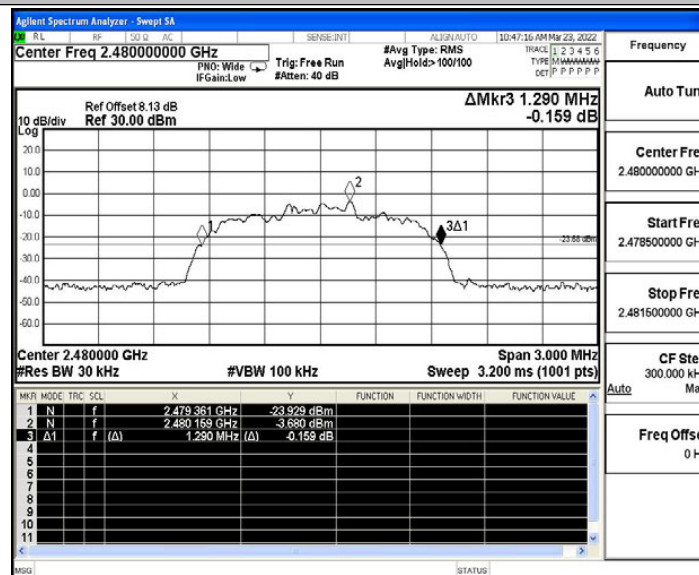
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2DH5_Ant1_2480



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A.2 Maximum peak conducted output power

Test Result

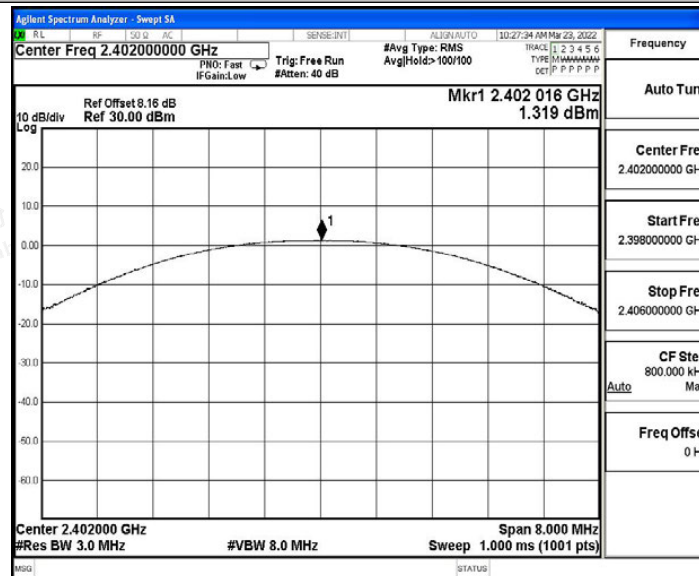
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.32	≤20.97	PASS
		2441	2.53	≤20.97	PASS
		2480	1.06	≤20.97	PASS
2DH5	Ant1	2402	0.46	≤20.97	PASS
		2441	1.7	≤20.97	PASS
		2480	0.36	≤20.97	PASS



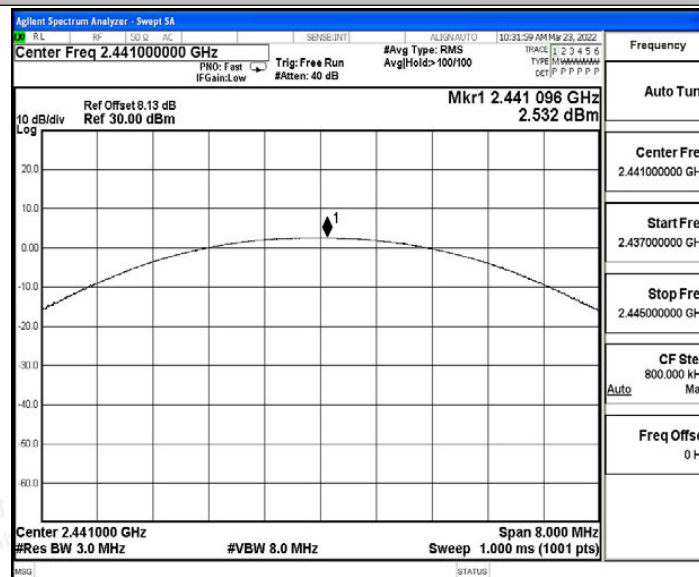


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

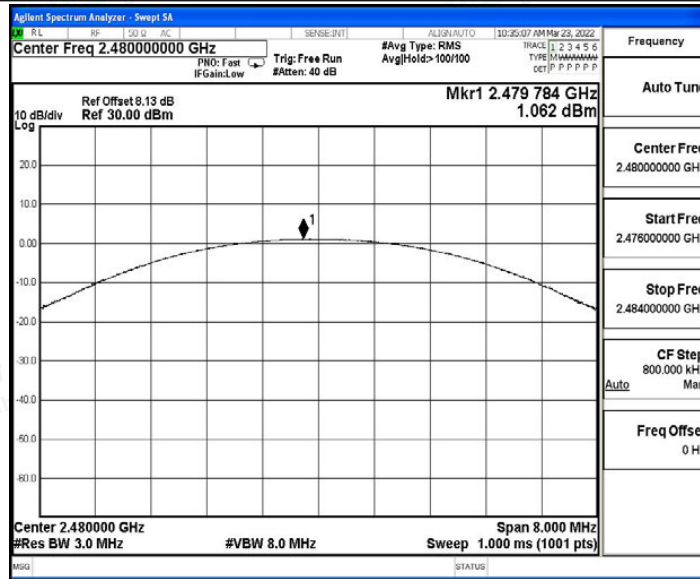


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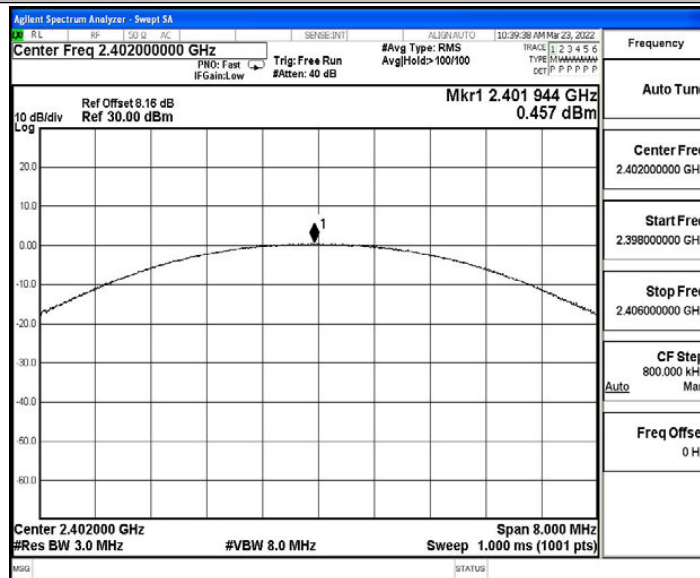
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2DH5_Ant1_2402



2DH5_Ant1_2441

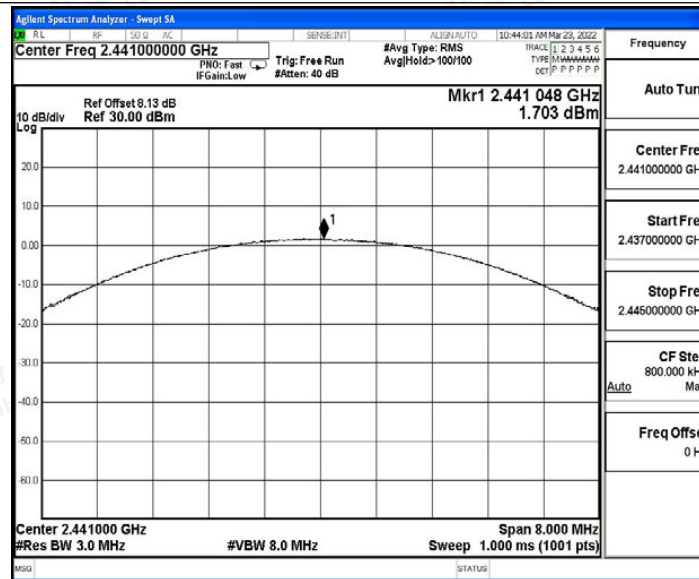


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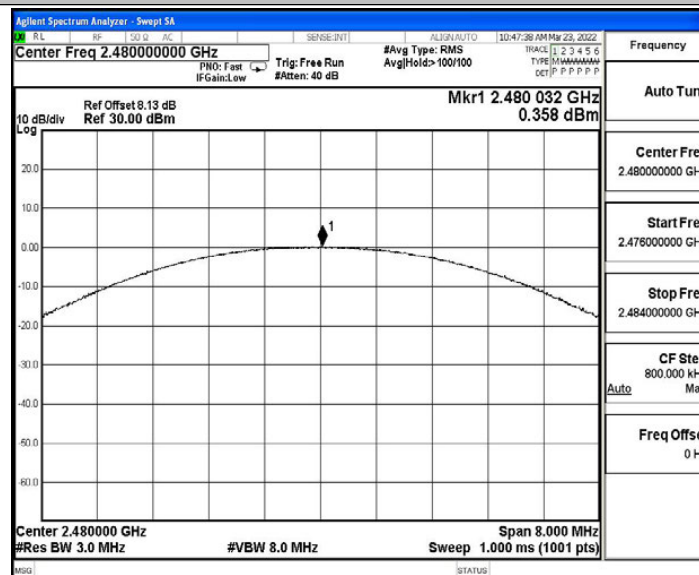
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2DH5_Ant1_2480



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A.3 Carrier frequency separation

Test Result

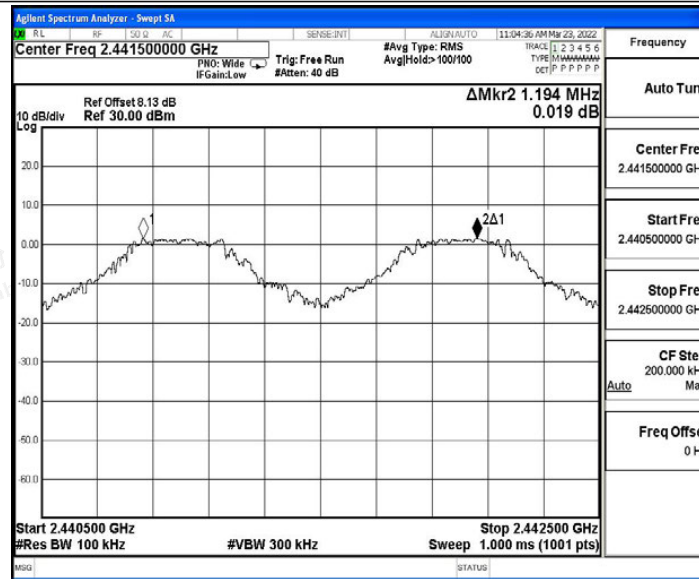
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.194	≥0.696	PASS
2DH5	Ant1	Hop	1.144	≥0.880	PASS



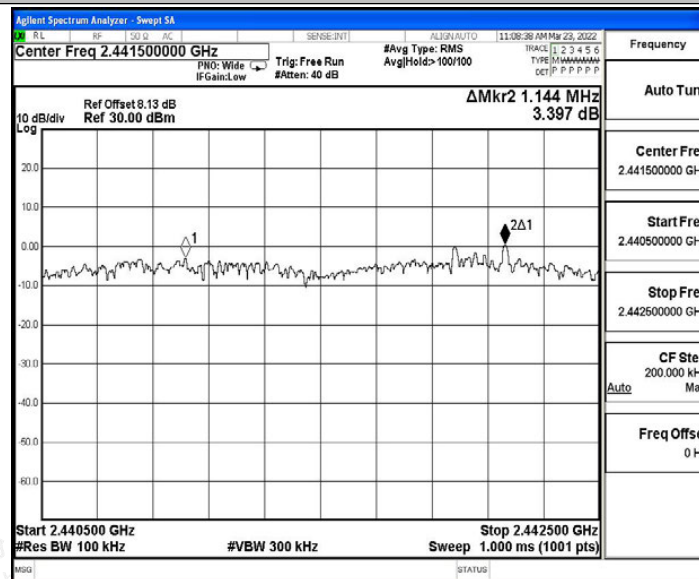


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



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A.4 Time of occupancy

Test Result

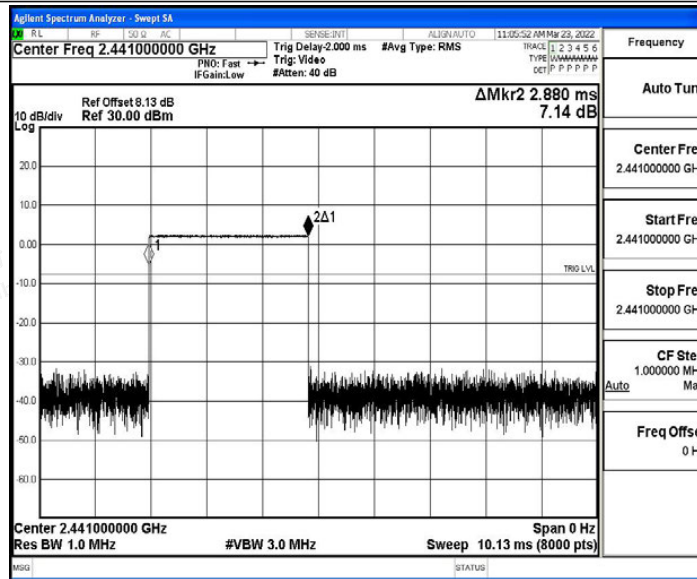
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS



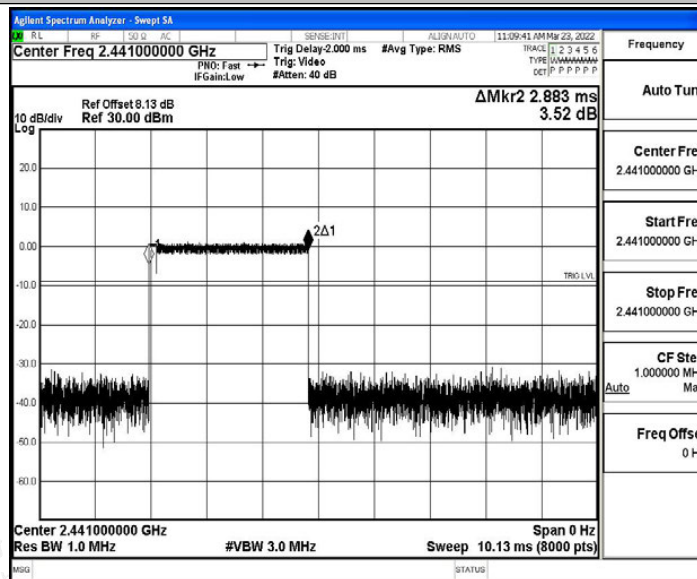


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



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A.5 Number of hopping channels

Test Result

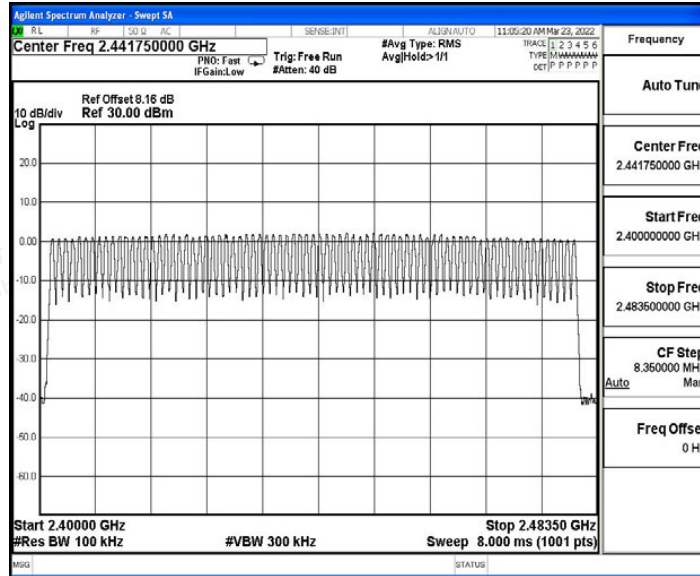
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS



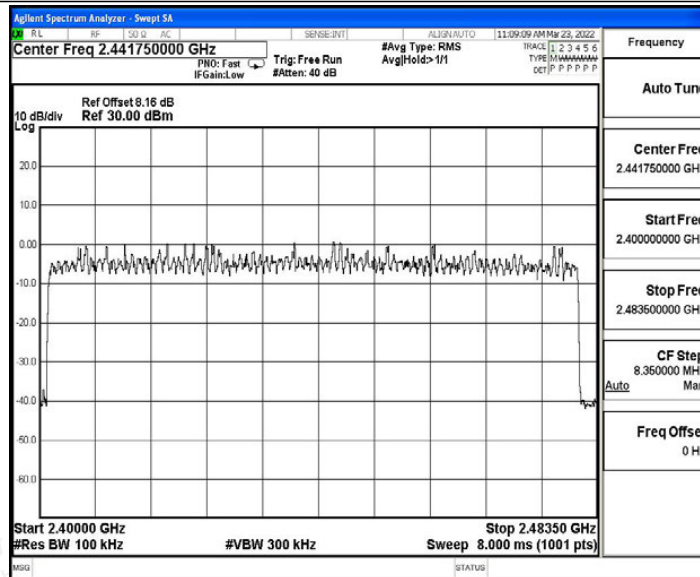


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



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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	0.84	-55.74	≤ -19.16	PASS
		High	2480	0.44	-57.15	≤ -19.56	PASS
		Low	Hop_2402	0.58	-59.75	≤ -19.42	PASS
		High	Hop_2480	0.62	-58.41	≤ -19.38	PASS
2DH5	Ant1	Low	2402	-0.73	-56.08	≤ -20.73	PASS
		High	2480	-0.77	-58.36	≤ -20.77	PASS
		Low	Hop_2402	-4.49	-59.49	≤ -24.49	PASS
		High	Hop_2480	-0.66	-57.97	≤ -20.66	PASS



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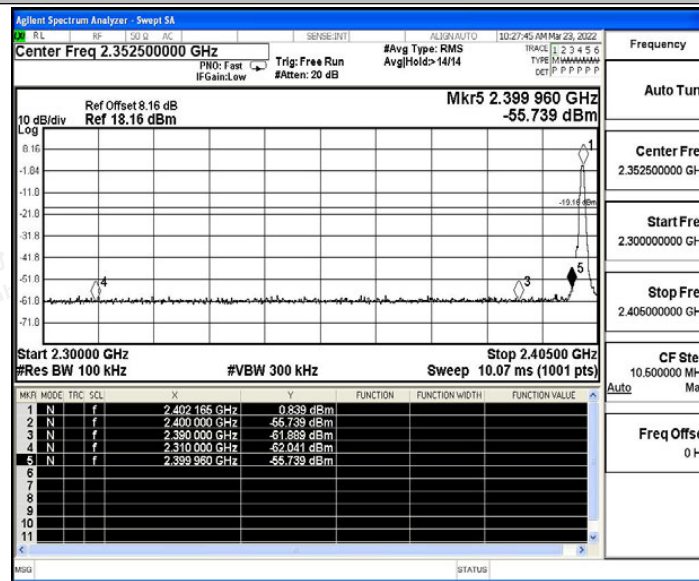
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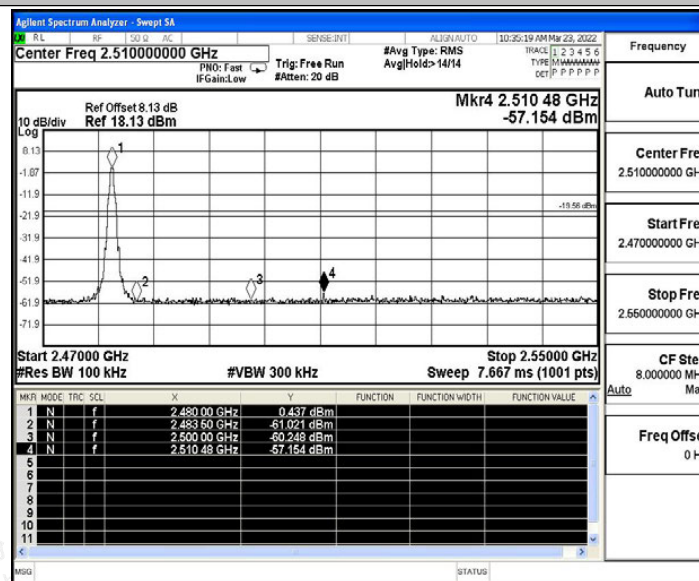


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

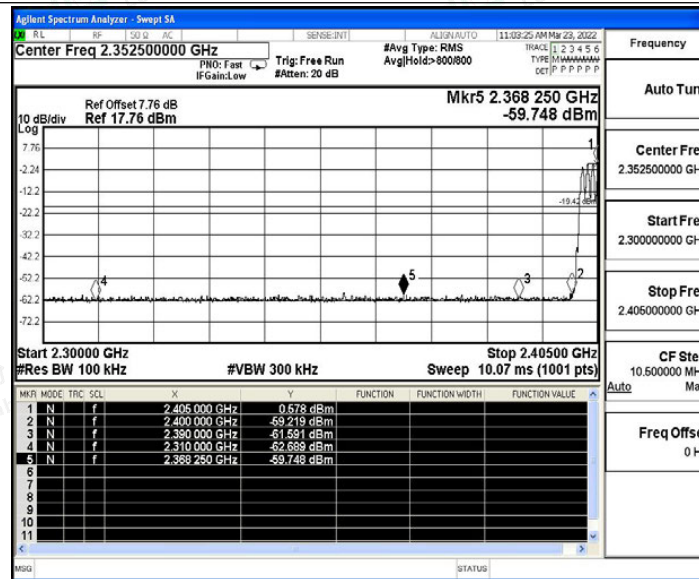


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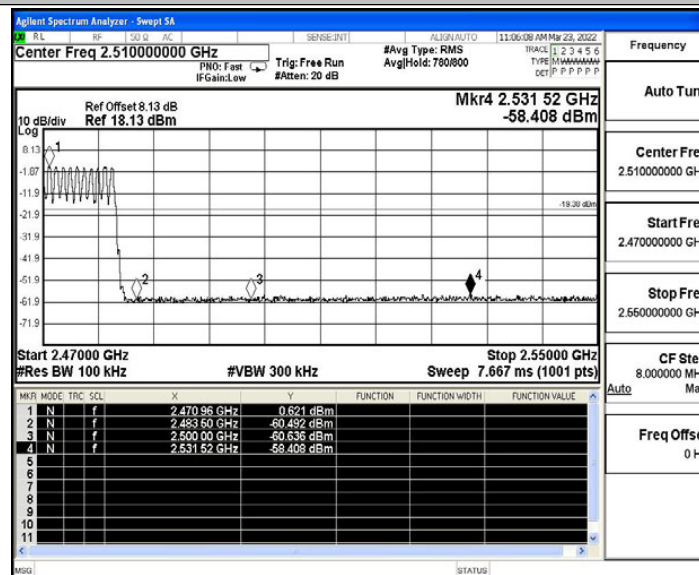
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

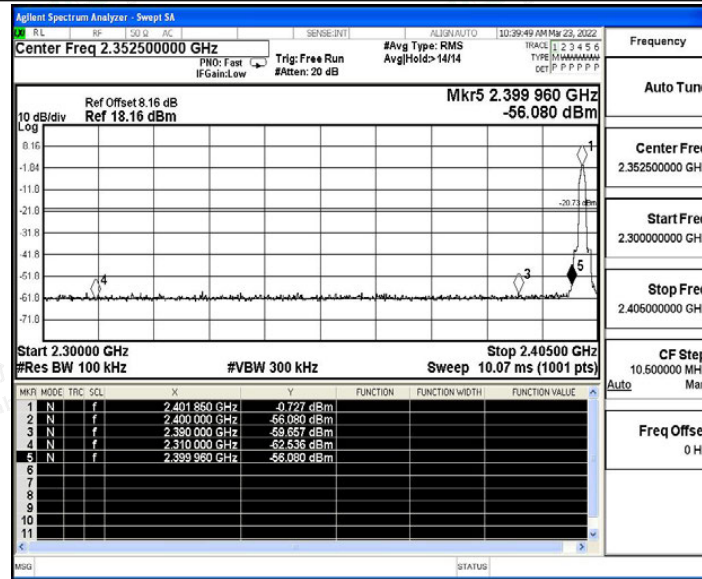


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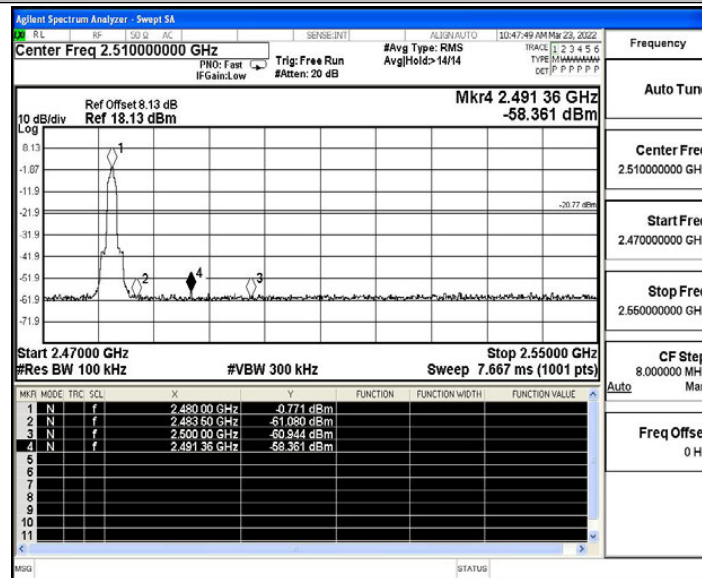
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

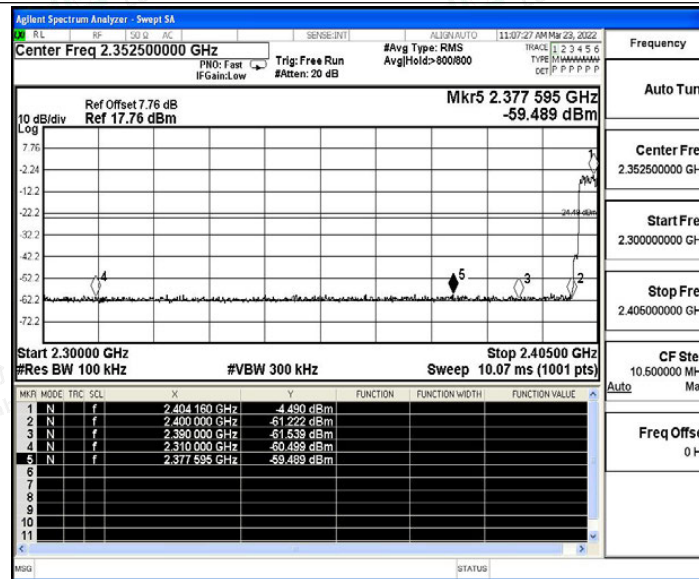


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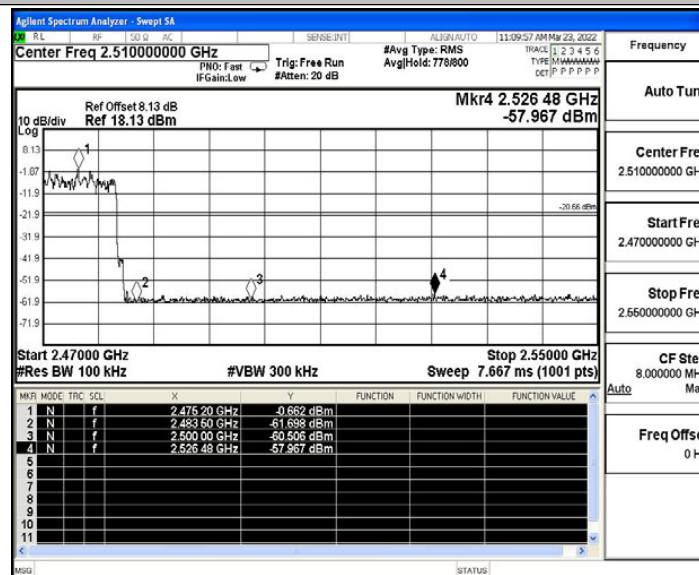
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2DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

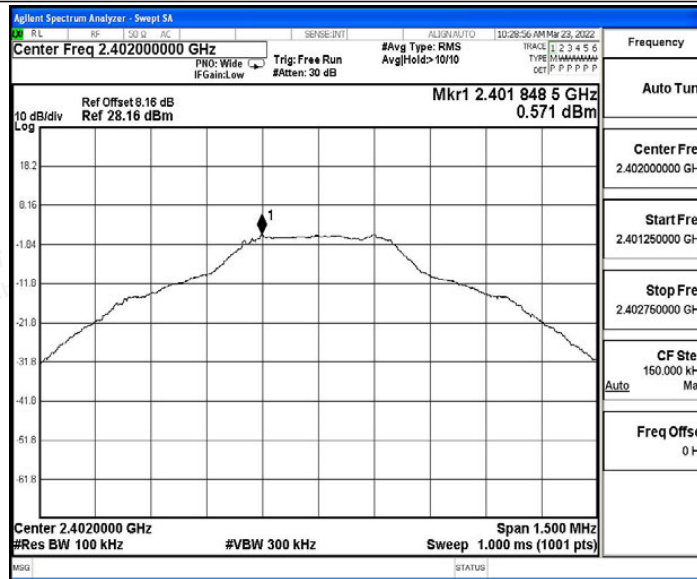
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.57	0.57	---	PASS
			30~1000	0.57	-61.03	≤-19.43	PASS
			1000~26500	0.57	-46.87	≤-19.43	PASS
		2441	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-60.76	≤-18.29	PASS
			1000~26500	1.71	-47.16	≤-18.29	PASS
		2480	Reference	0.57	0.57	---	PASS
			30~1000	0.57	-60.36	≤-19.43	PASS
			1000~26500	0.57	-46.39	≤-19.43	PASS
2DH5	Ant1	2402	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-60.78	≤-20.83	PASS
			1000~26500	-0.83	-46.29	≤-20.83	PASS
		2441	Reference	0.20	0.20	---	PASS
			30~1000	0.20	-60.92	≤-19.8	PASS
			1000~26500	0.20	-46.52	≤-19.8	PASS
		2480	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-60.73	≤-21.04	PASS
			1000~26500	-1.04	-46.69	≤-21.04	PASS



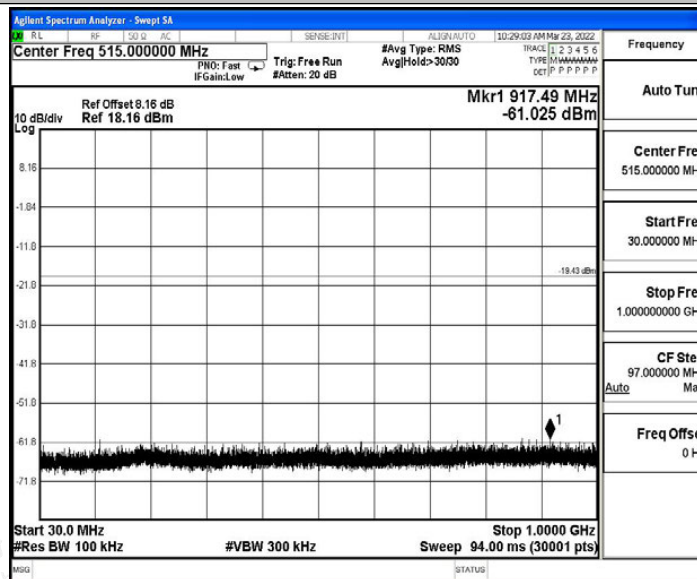


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

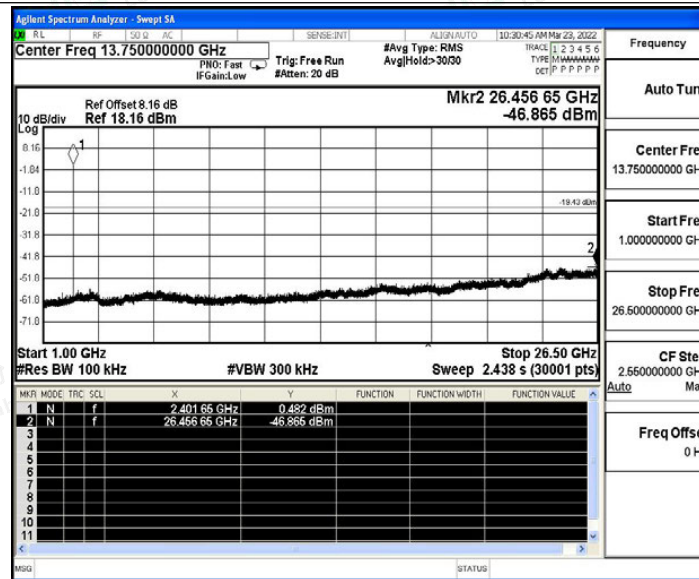


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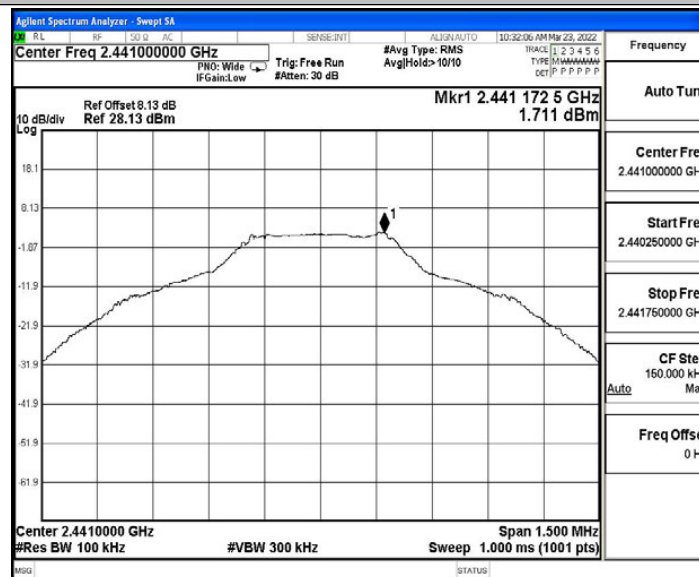
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

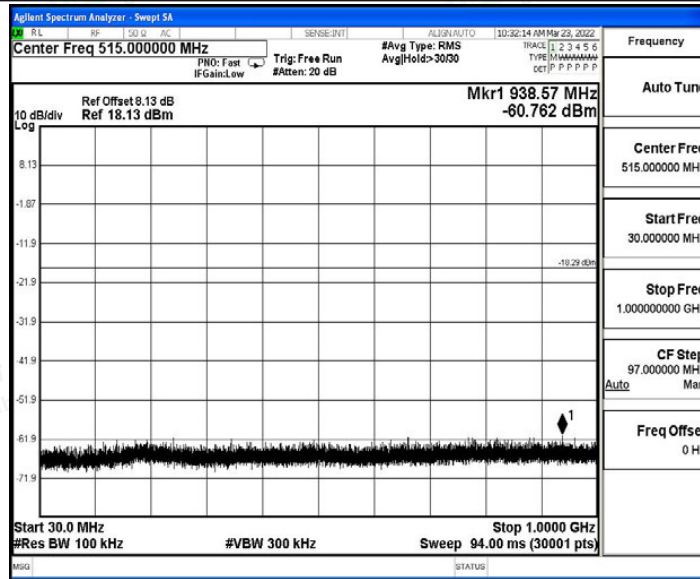


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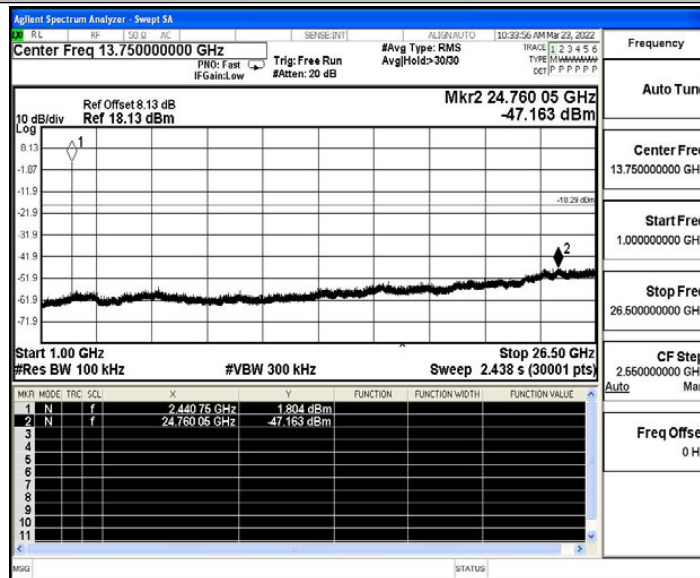
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

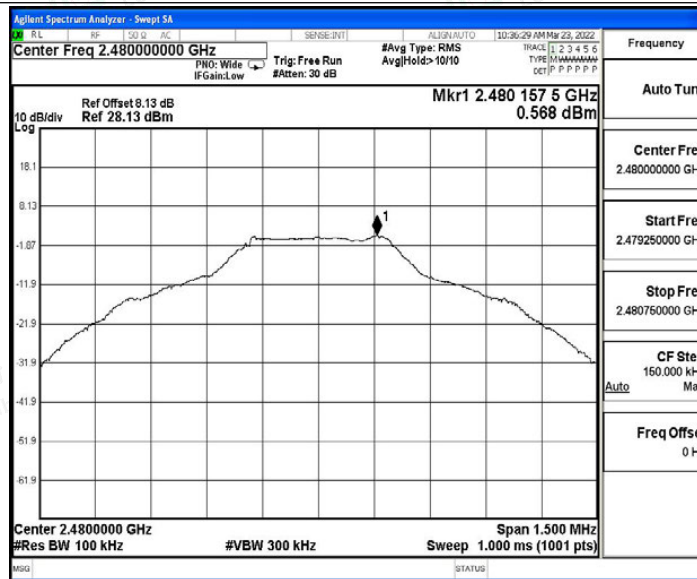


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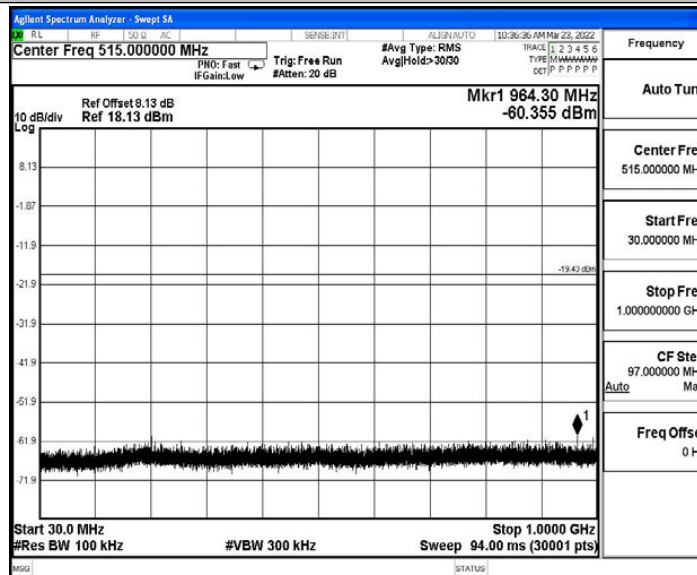
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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

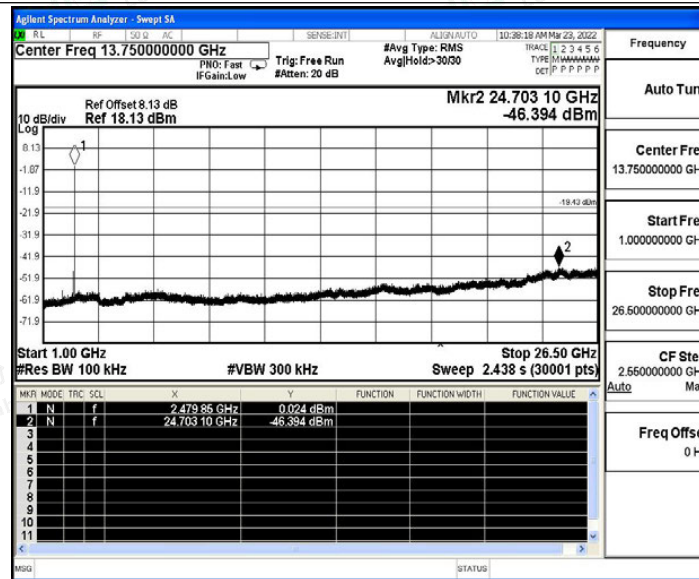


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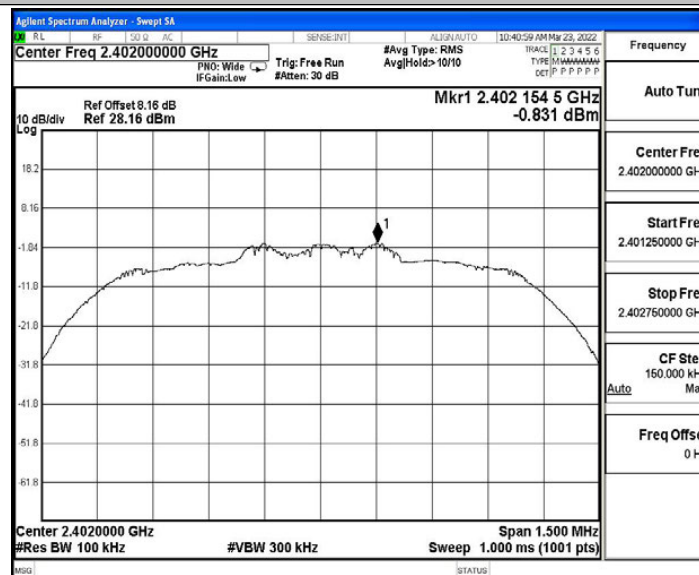
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

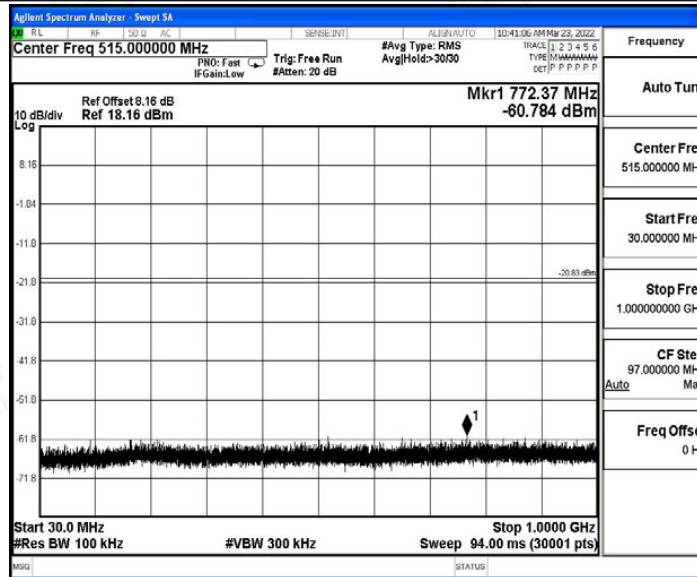


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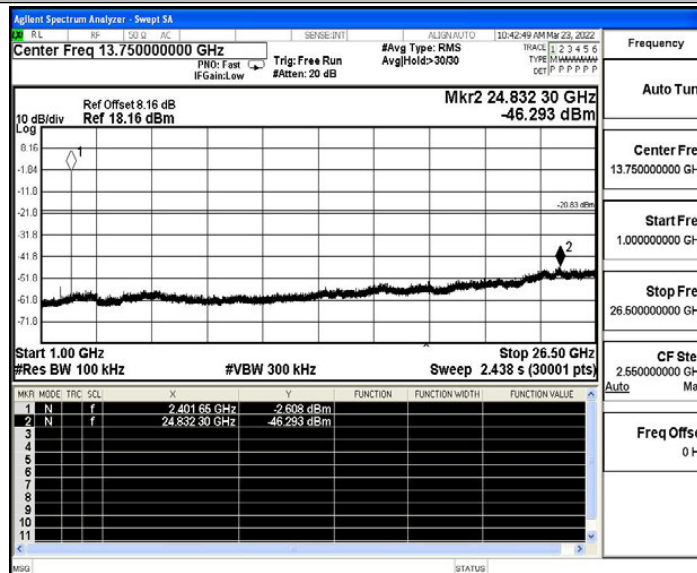
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

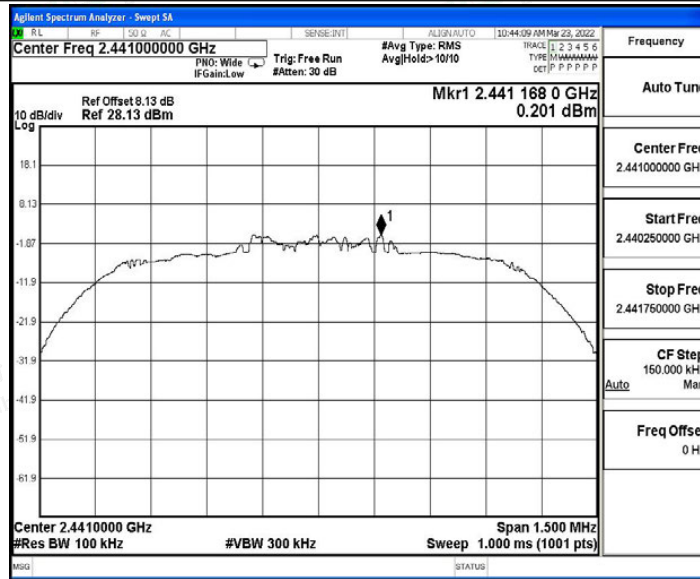


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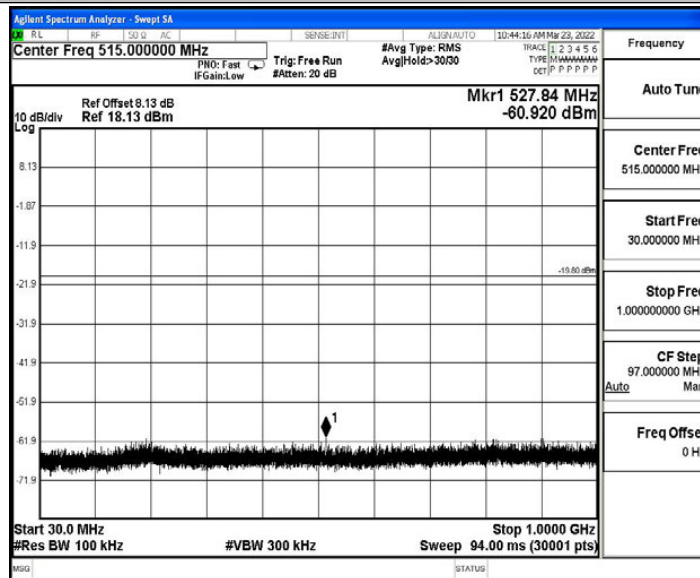
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

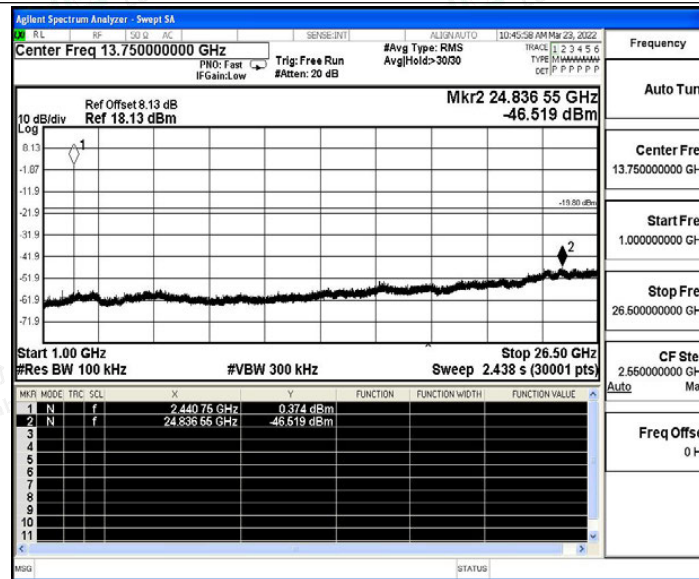


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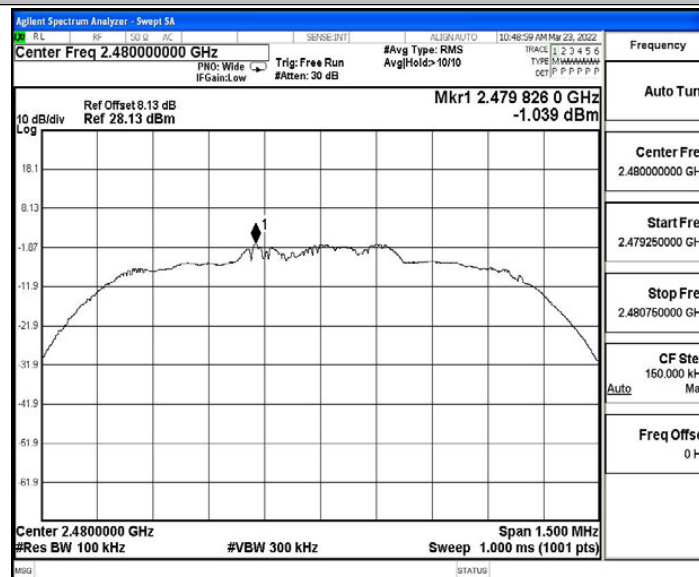
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

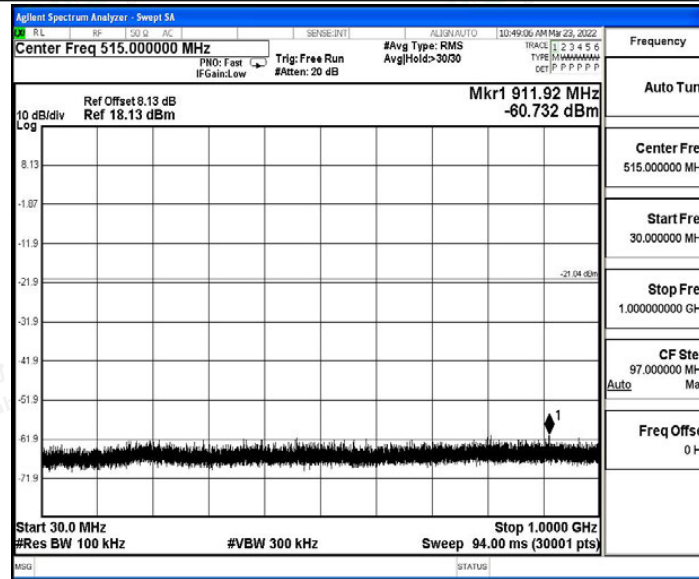


Shenzhen LCS Compliance Testing Laboratory Ltd.

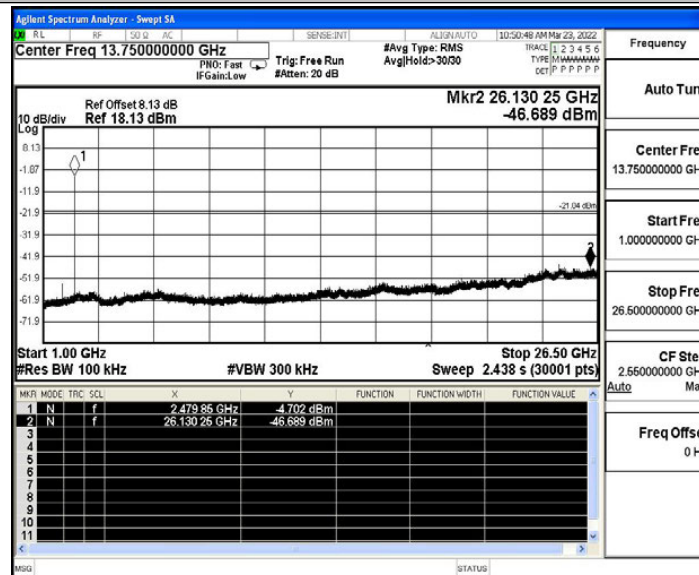
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2DH5_Ant1_2480_1000~26500



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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	-58.68	≤-41.20	36.52	≤54	PASS
				AV	2389.565	-58.03	≤-41.20	37.17	≤54	PASS
				AV	2390.000	-58.14	≤-41.20	37.06	≤54	PASS
				Peak	2310.000	-49.85	≤-21.20	45.35	≤74	PASS
				Peak	2370.140	-46.92	≤-21.20	48.28	≤74	PASS
				Peak	2390.000	-48.2	≤-21.20	47.00	≤74	PASS
		High	2480	AV	2483.500	-55	≤-41.20	40.20	≤54	PASS
				AV	2483.520	-55	≤-41.20	40.20	≤54	PASS
				AV	2500.000	-57.71	≤-41.20	37.49	≤54	PASS
				Peak	2483.500	-47.95	≤-21.20	47.25	≤74	PASS
				Peak	2485.840	-46.29	≤-21.20	48.91	≤74	PASS
				Peak	2500.000	-48.21	≤-21.20	46.99	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.62	≤-41.20	36.58	≤54	PASS
				AV	2383.055	-58.07	≤-41.20	37.13	≤54	PASS
				AV	2390.000	-58.1	≤-41.20	37.10	≤54	PASS
				Peak	2310.000	-47.93	≤-21.20	47.27	≤74	PASS
				Peak	2368.460	-46.9	≤-21.20	48.30	≤74	PASS
				Peak	2390.000	-48.6	≤-21.20	46.60	≤74	PASS
		High	2480	AV	2483.500	-54.99	≤-41.20	40.21	≤54	PASS
				AV	2483.520	-54.99	≤-41.20	40.21	≤54	PASS
				AV	2500.000	-57.65	≤-41.20	37.55	≤54	PASS
				Peak	2483.500	-47.14	≤-21.20	48.06	≤74	PASS
				Peak	2494.720	-46.02	≤-21.20	49.18	≤74	PASS
				Peak	2500.000	-48.4	≤-21.20	46.80	≤74	PASS

Note:

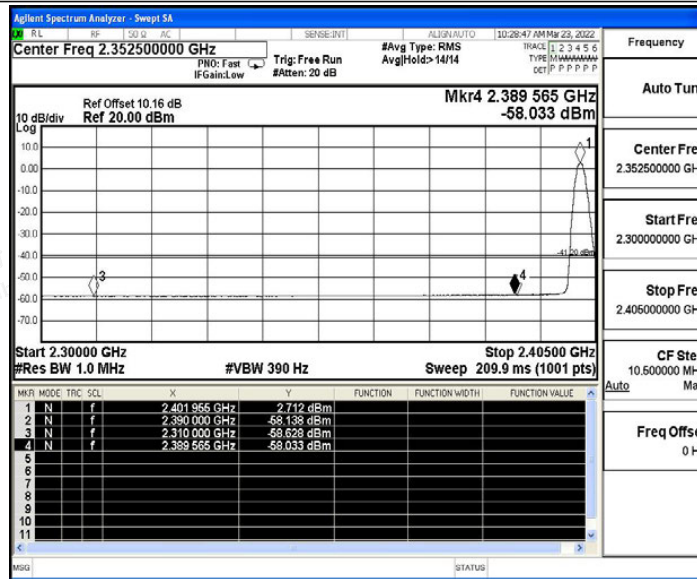
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



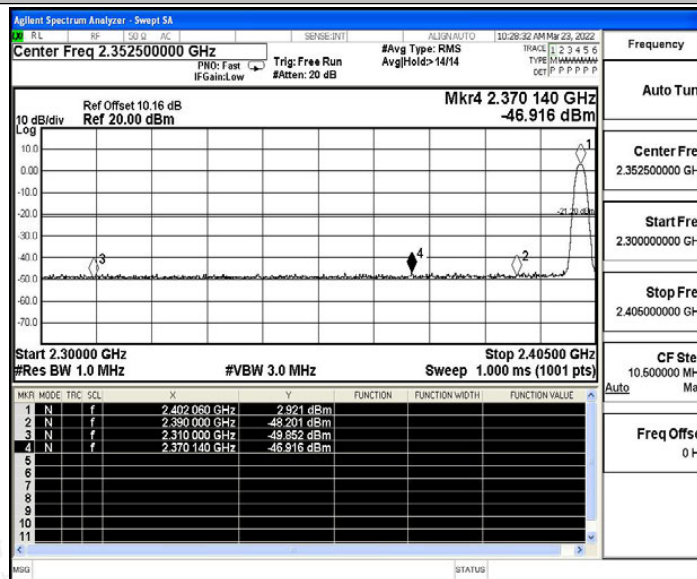


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

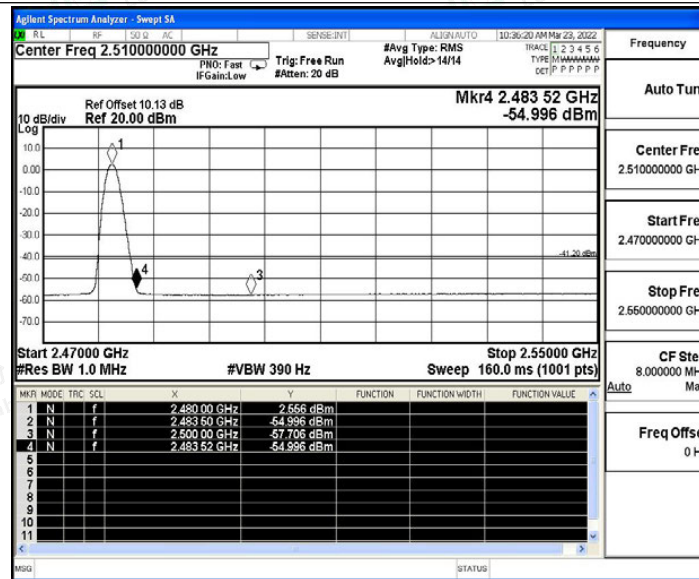


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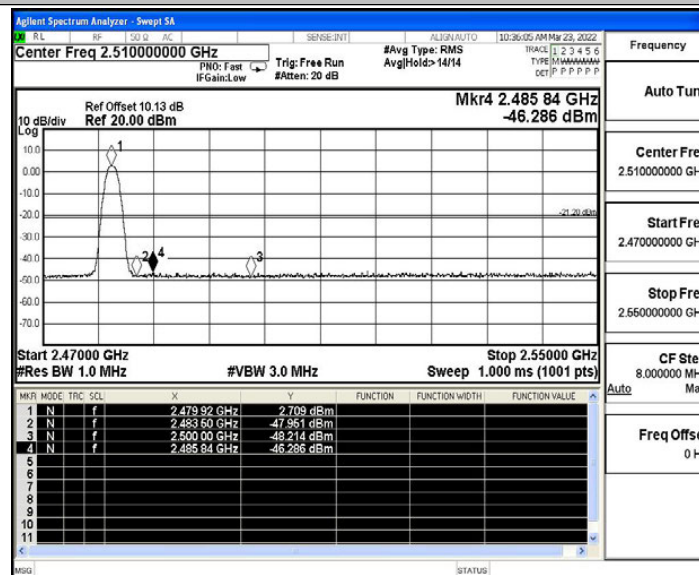
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_2402_AV

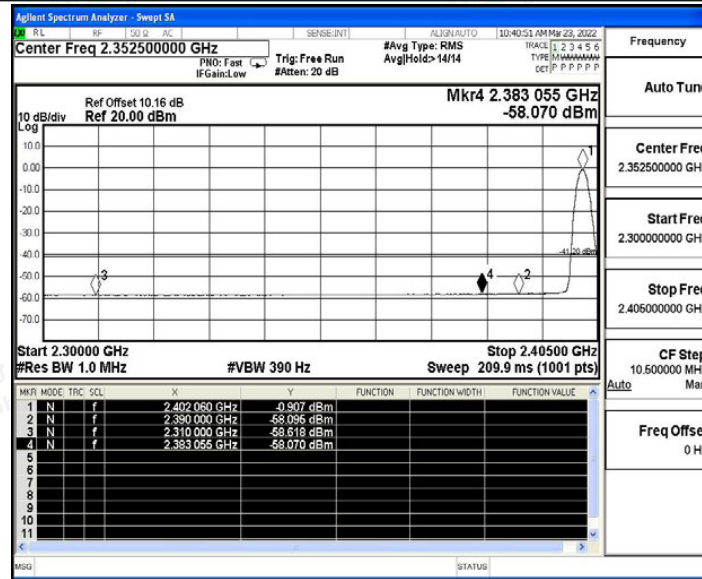


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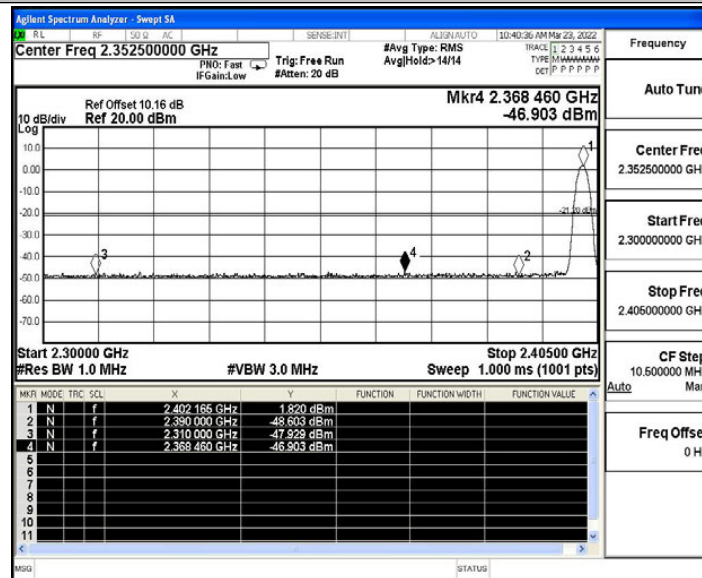
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

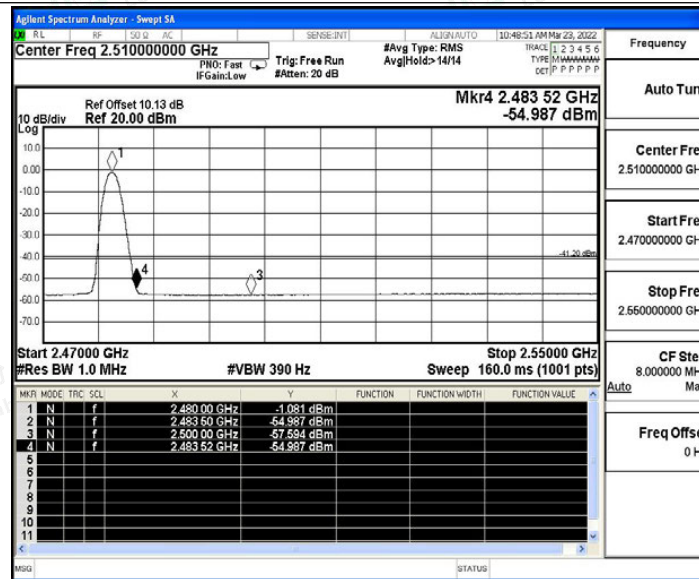


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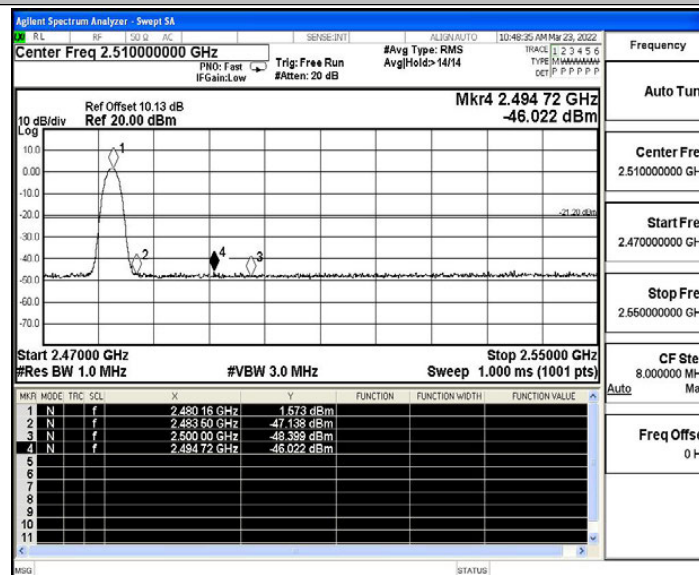
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2DH5_Ant1_High_2480_Peak



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