



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: VIM4

Test Model: VIM4

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan





A.1 20dB Emission Bandwidth

Test Result

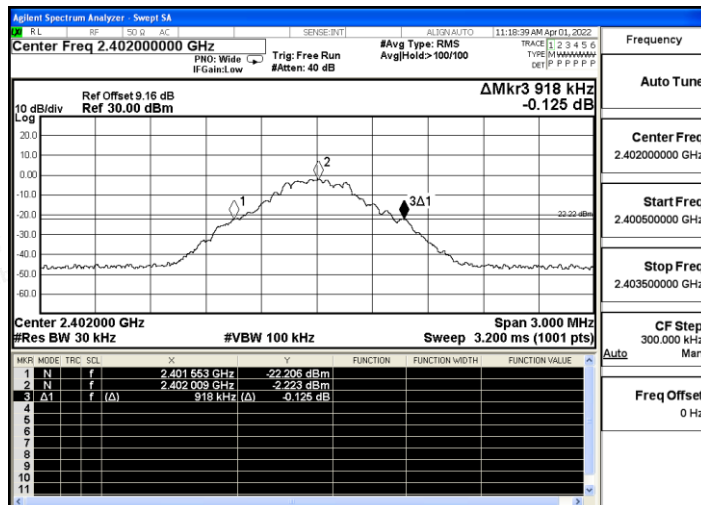
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.918	2401.553	2402.471	---	---
		2441	0.933	2440.541	2441.474	---	---
		2480	0.921	2479.547	2480.468	---	---
2DH5	Ant1	2402	1.284	2401.358	2402.642	---	---
		2441	1.317	2440.334	2441.651	---	---
		2480	1.284	2479.358	2480.642	---	---
3DH5	Ant1	2402	1.290	2401.346	2402.636	---	---
		2441	1.287	2440.343	2441.630	---	---
		2480	1.296	2479.343	2480.639	---	---



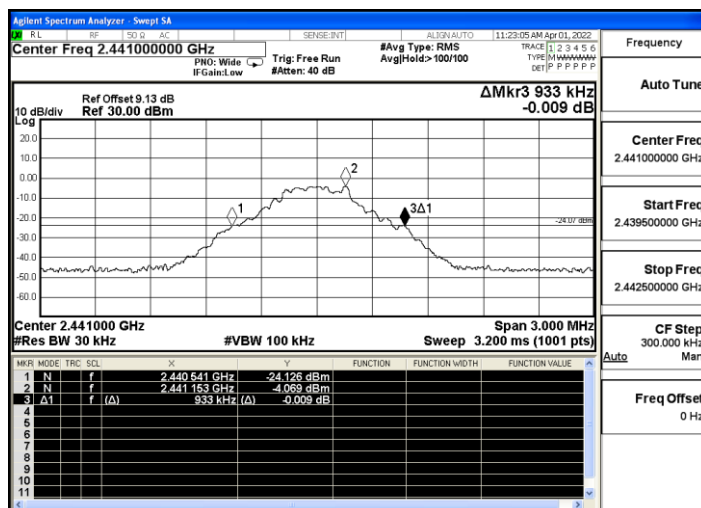


Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

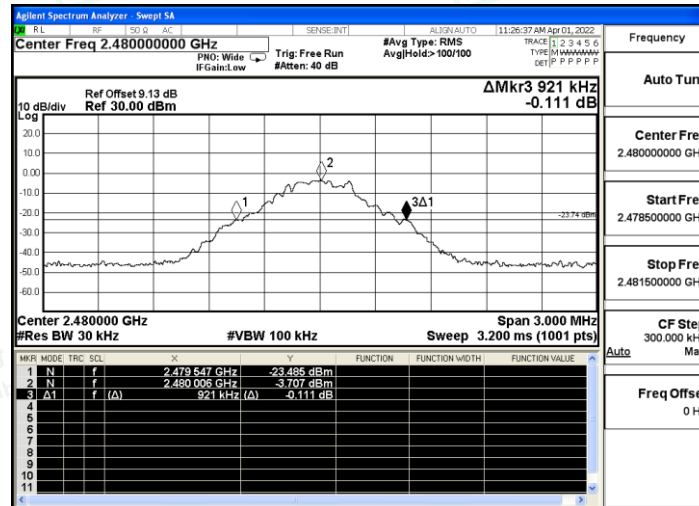


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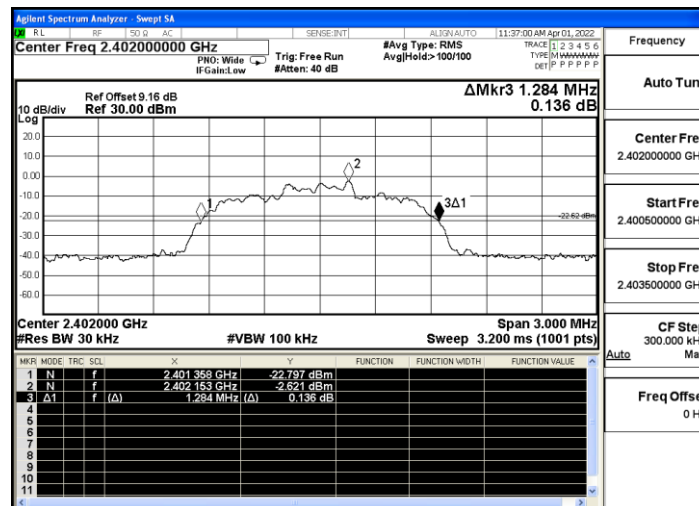
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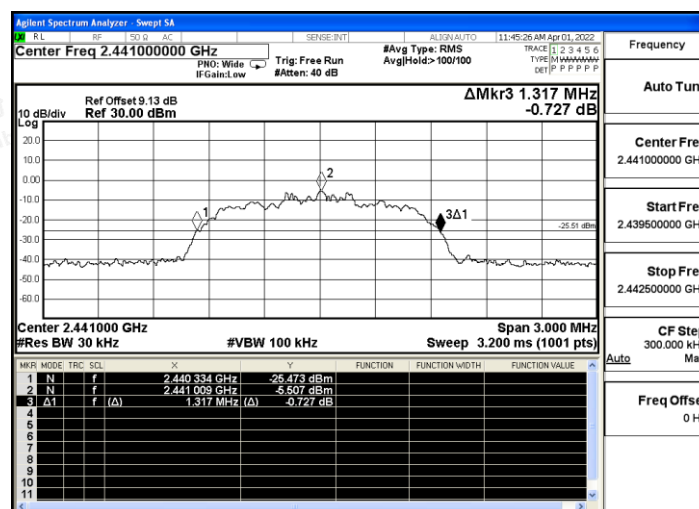
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2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

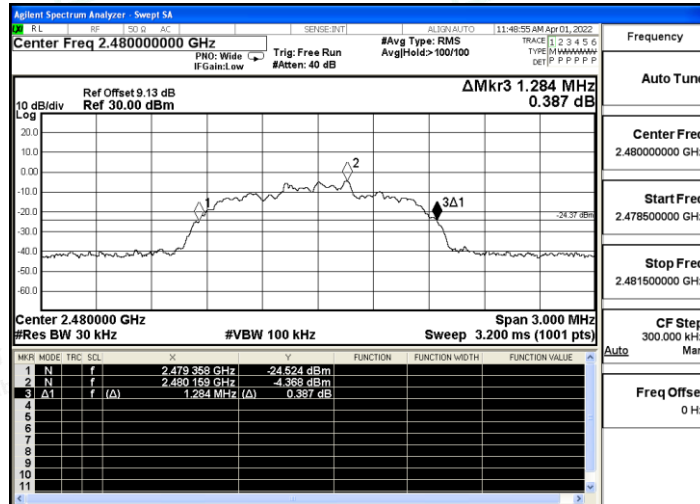


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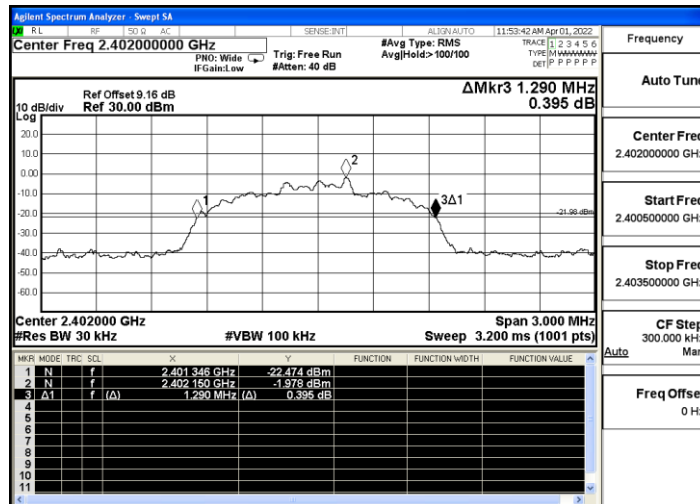
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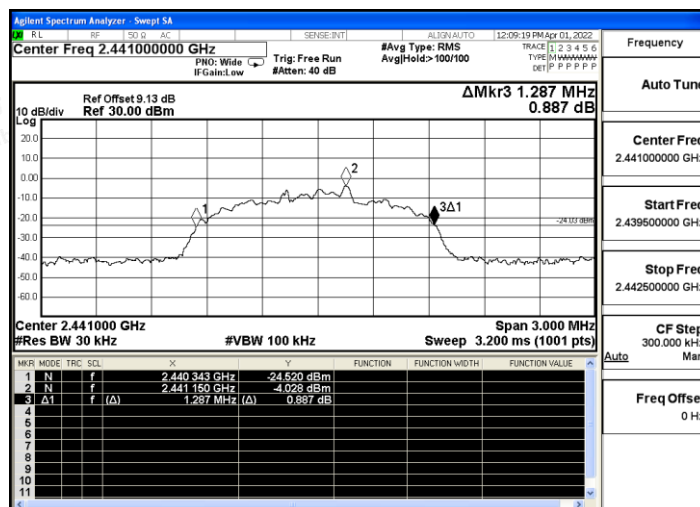
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3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

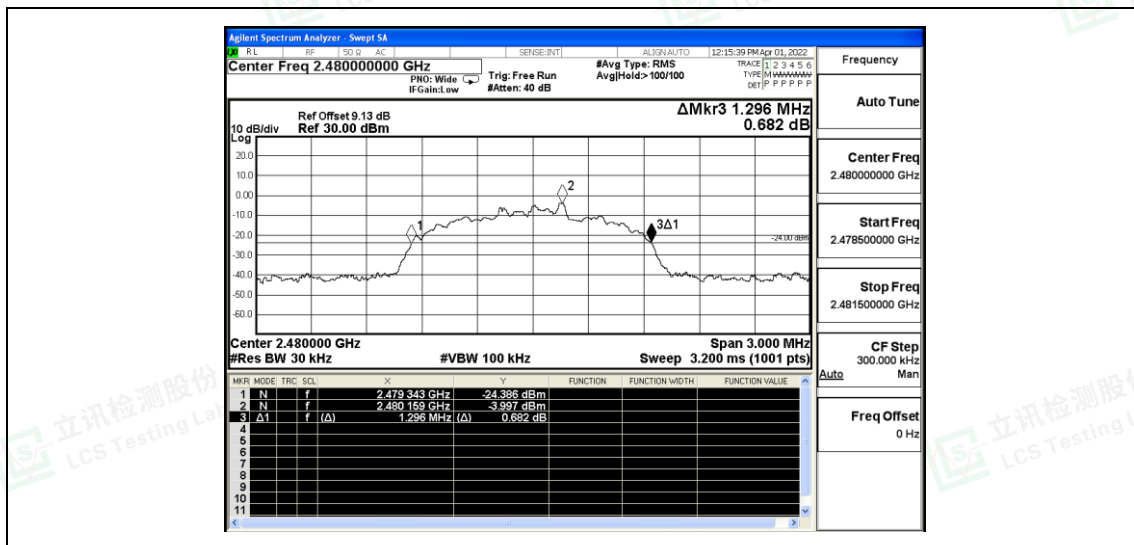


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A.2 Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.91	≤ 20.97	PASS
		2441	-0.88	≤ 20.97	PASS
		2480	-0.59	≤ 20.97	PASS
2DH5	Ant1	2402	1.07	≤ 20.97	PASS
		2441	-0.91	≤ 20.97	PASS
		2480	-0.45	≤ 20.97	PASS
3DH5	Ant1	2402	0.95	≤ 20.97	PASS
		2441	-0.86	≤ 20.97	PASS
		2480	-0.33	≤ 20.97	PASS



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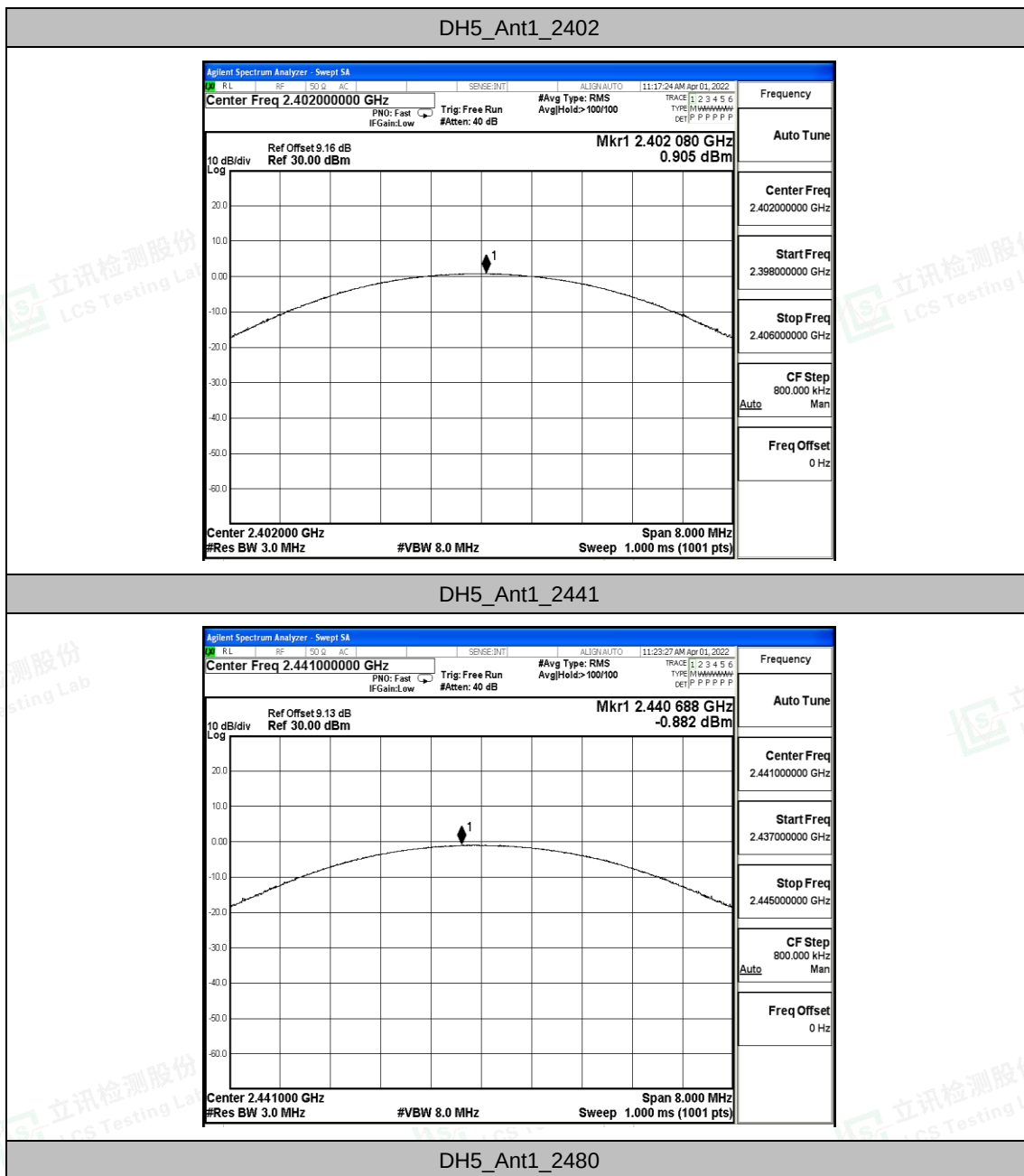
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

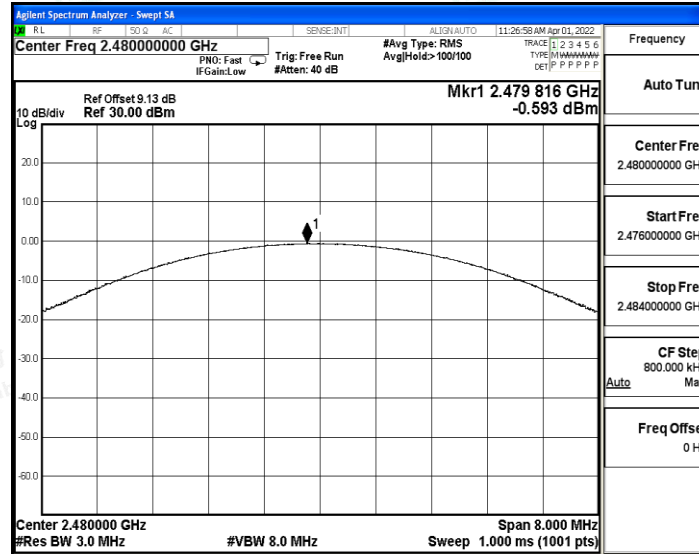
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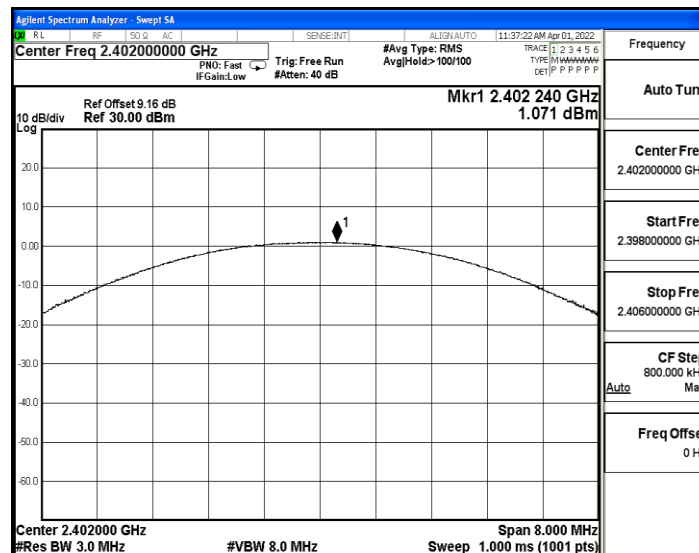


Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441

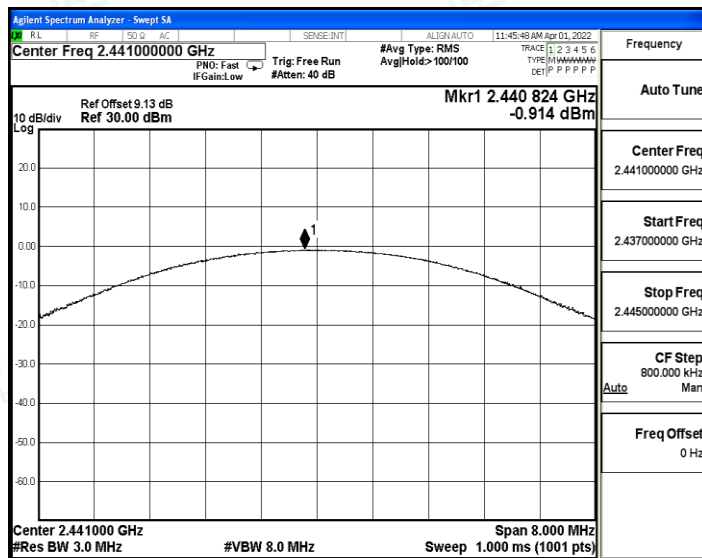


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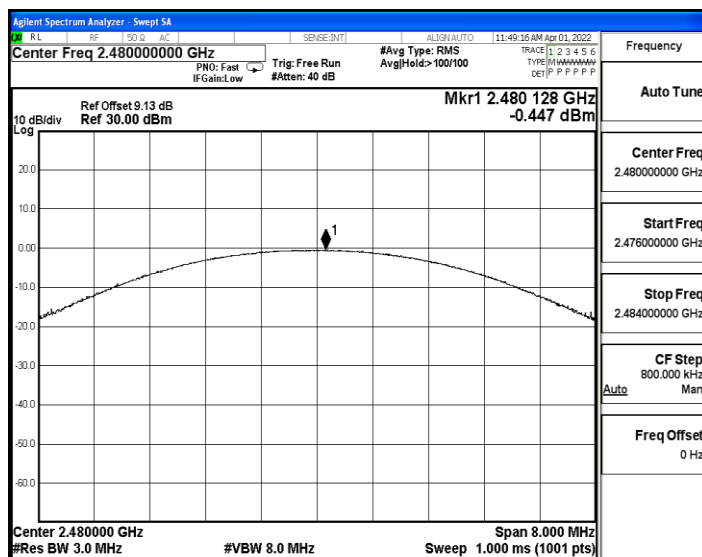
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2DH5_Ant1_2480



3DH5_Ant1_2402

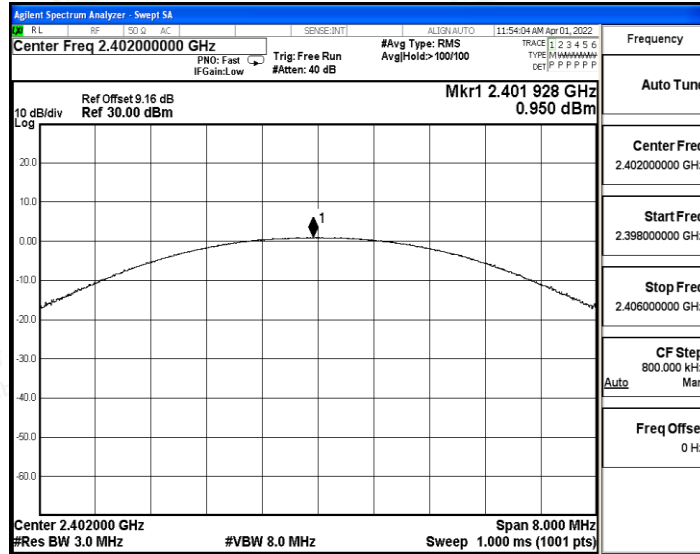


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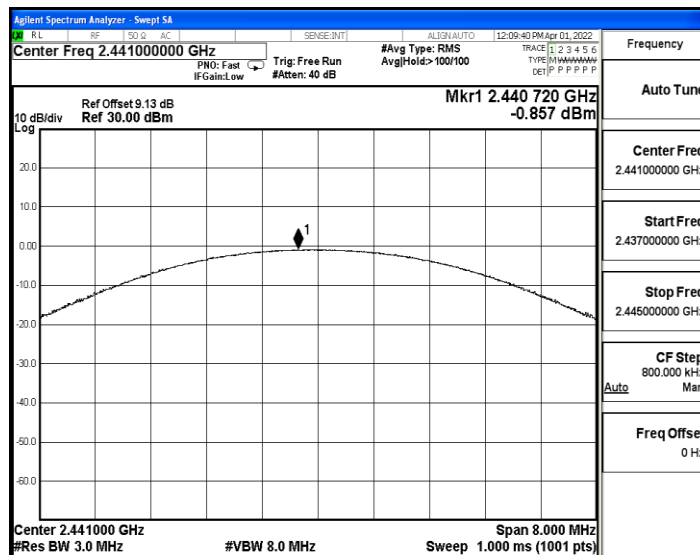
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3DH5_Ant1_2441



3DH5_Ant1_2480

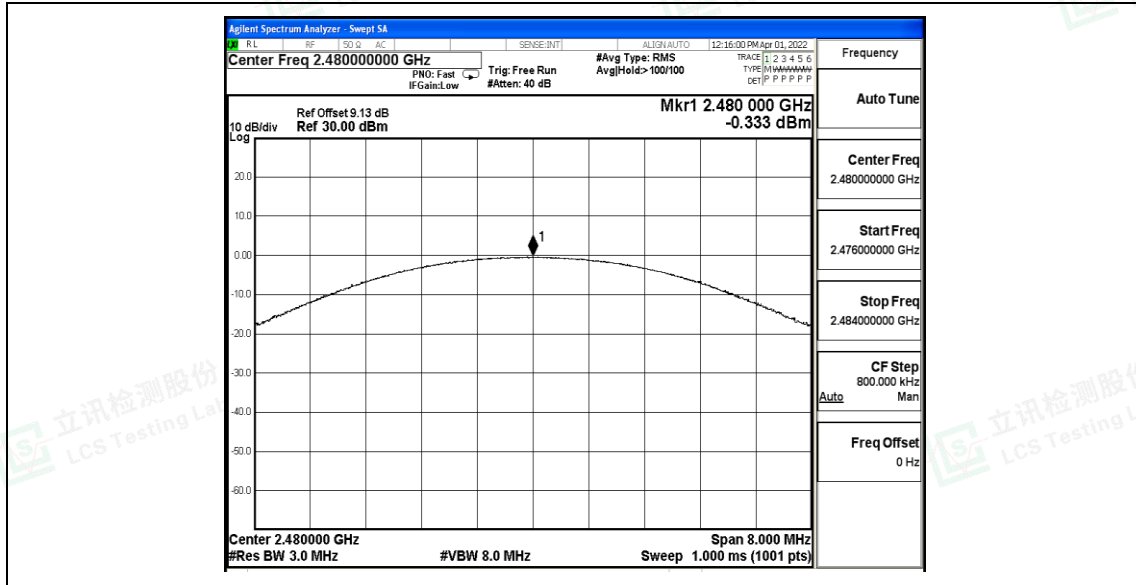


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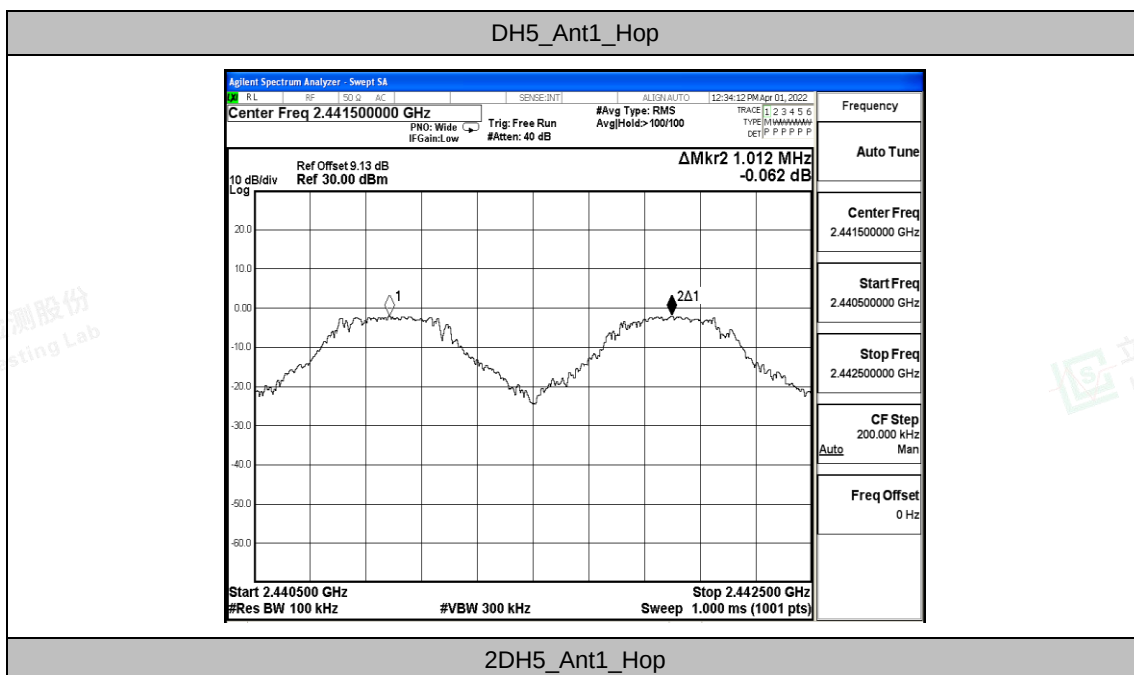


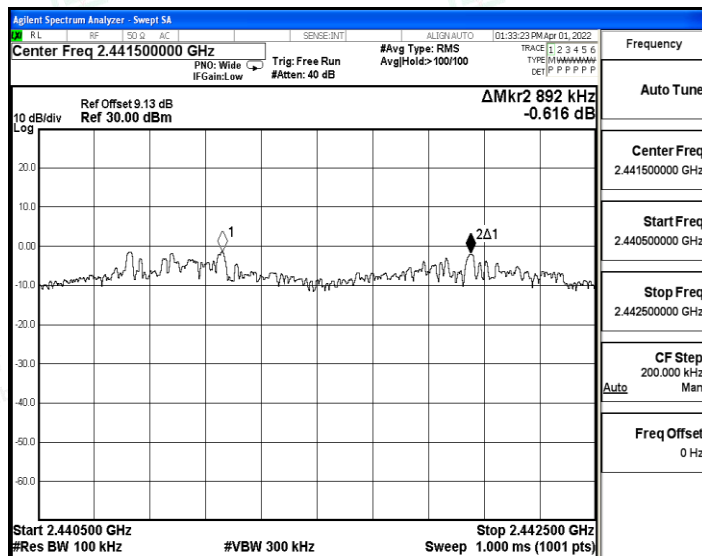
A.3 Carrier frequency separation

Test Result

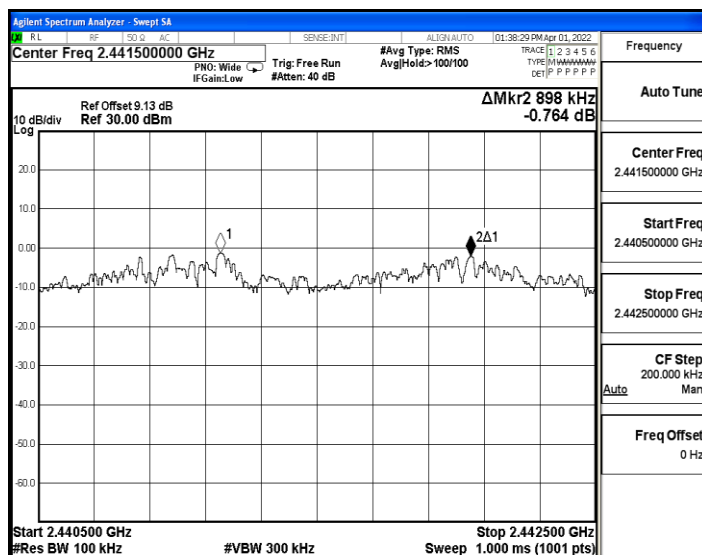
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.012	≥0.933	PASS
2DH5	Ant1	Hop	0.892	≥0.878	PASS
3DH5	Ant1	Hop	0.898	≥0.864	PASS

Test Graphs





3DH5_Ant1_Hop



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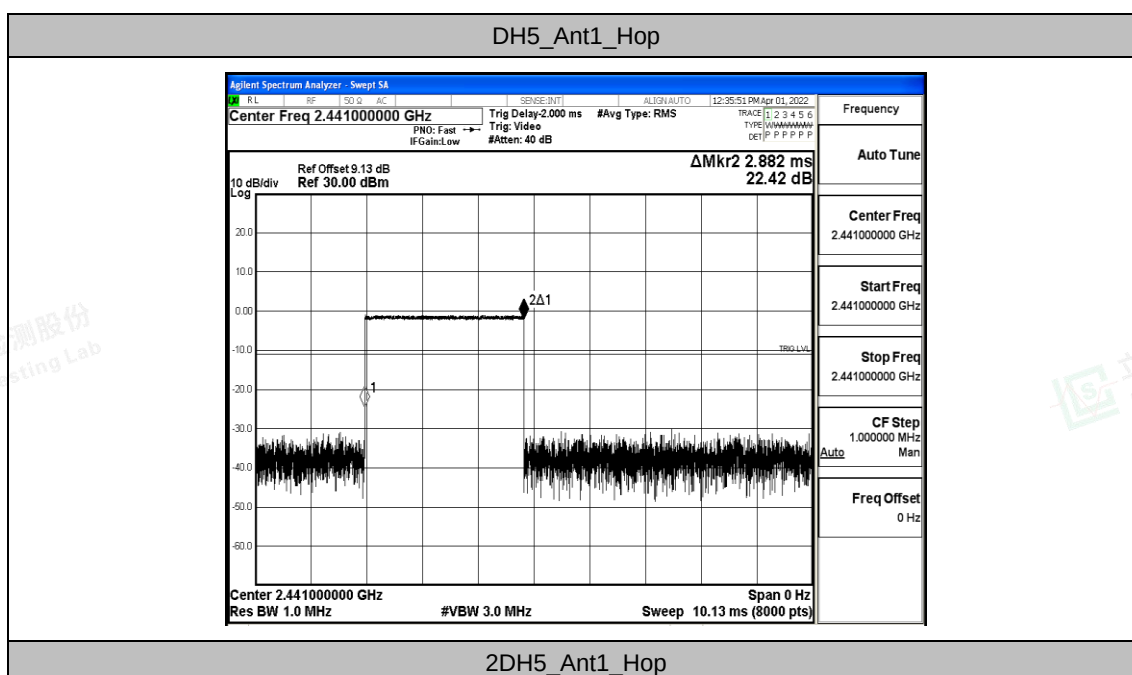


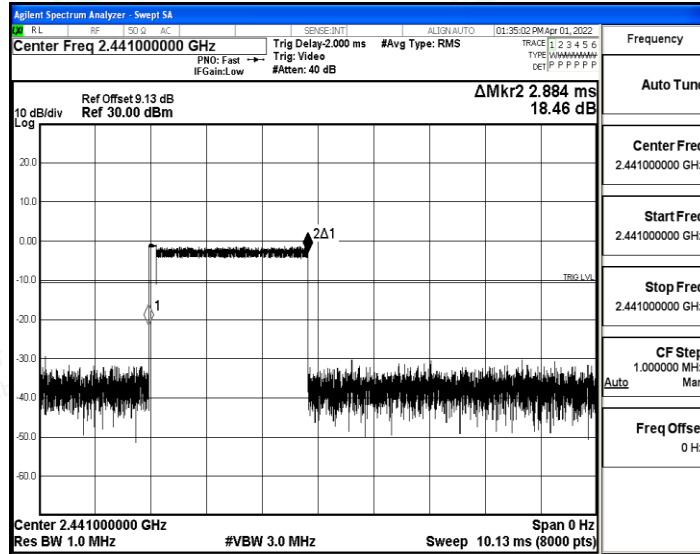
A.4 Time of occupancy

Test Result

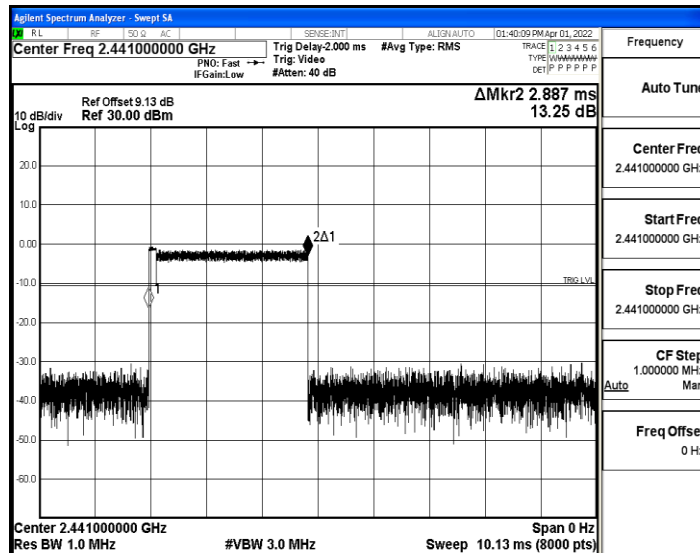
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS

Test Graphs





3DH5_Ant1_Hop



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A.5 Number of hopping channels

Test Result

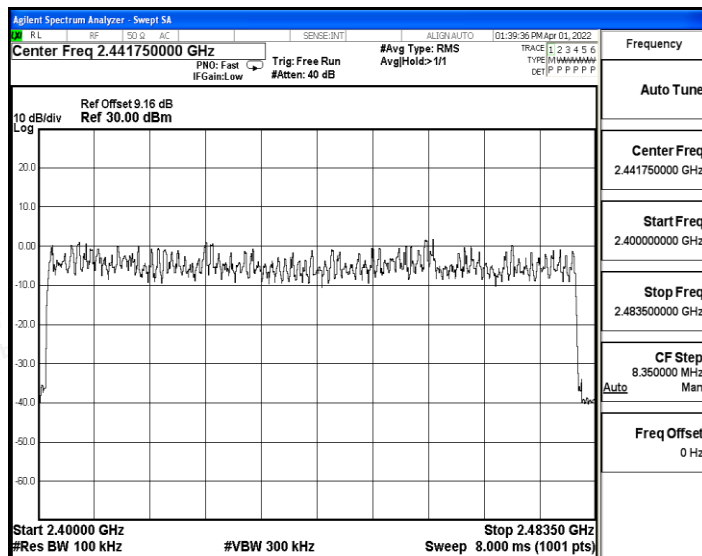
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs





3DH5_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	-0.15	-57.95	≤ -20.15	PASS
		High	2480	-1.70	-57.3	≤ -21.7	PASS
		Low	Hop_2402	-0.24	-58.61	≤ -20.24	PASS
		High	Hop_2480	0.29	-57.32	≤ -19.71	PASS
2DH5	Ant1	Low	2402	-0.06	-53.26	≤ -20.06	PASS
		High	2480	-1.29	-56.97	≤ -21.29	PASS
		Low	Hop_2402	-3.85	-58.2	≤ -23.85	PASS
		High	Hop_2480	-0.95	-57.33	≤ -20.95	PASS
3DH5	Ant1	Low	2402	-0.18	-53.62	≤ -20.18	PASS
		High	2480	-1.28	-57.66	≤ -21.28	PASS
		Low	Hop_2402	-3.71	-58.12	≤ -23.71	PASS
		High	Hop_2480	-1.91	-57.18	≤ -21.91	PASS



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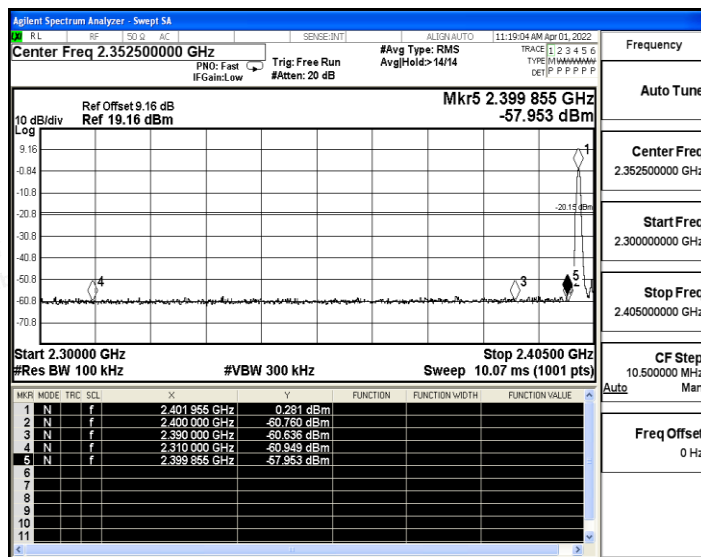
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

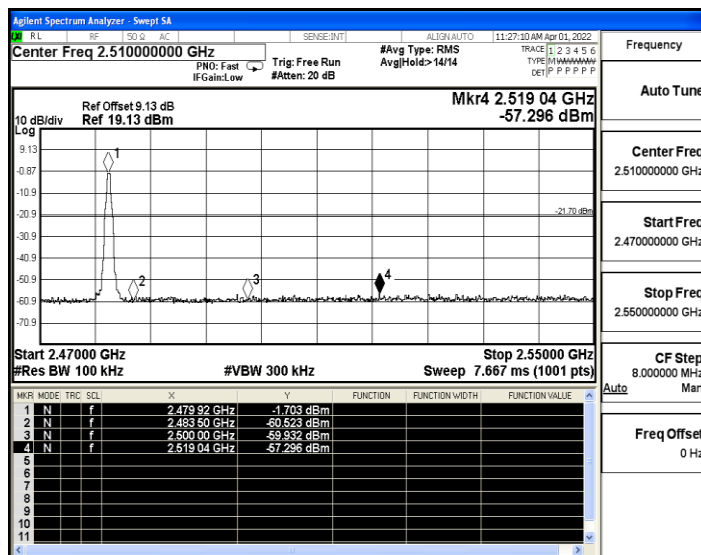


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

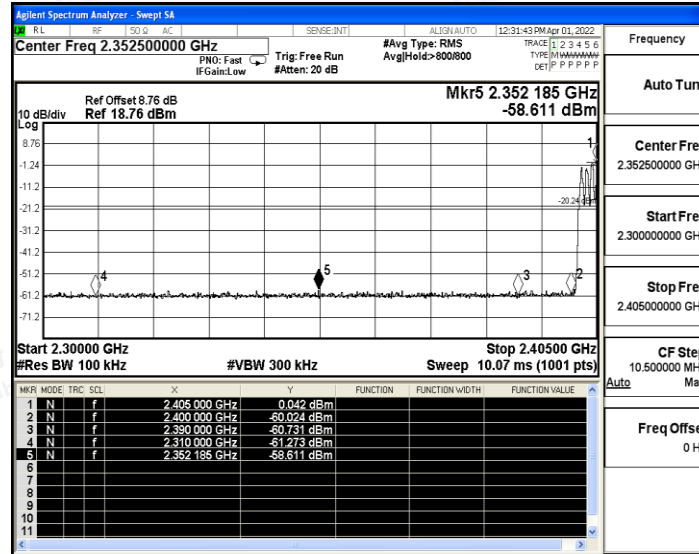


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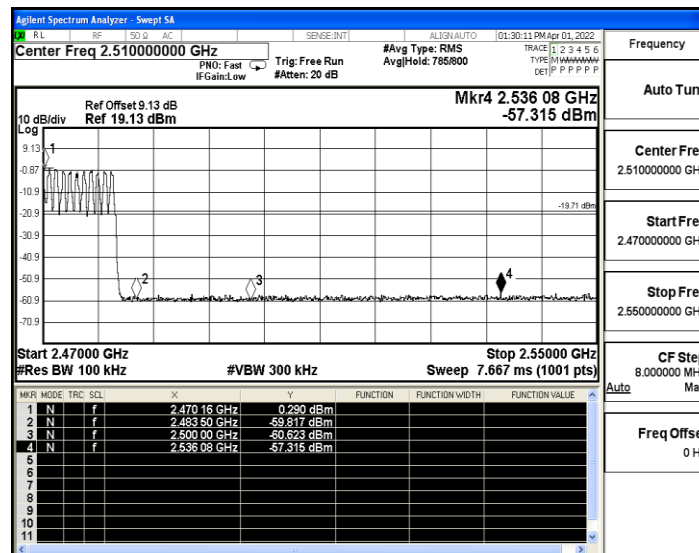
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402

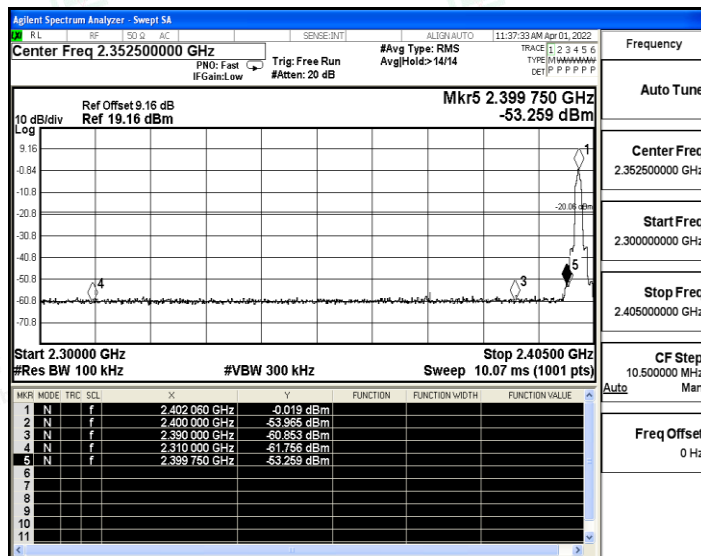


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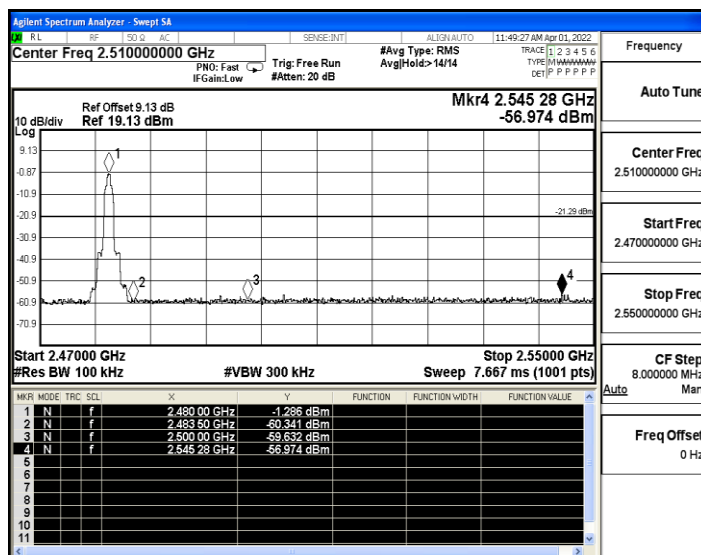
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402

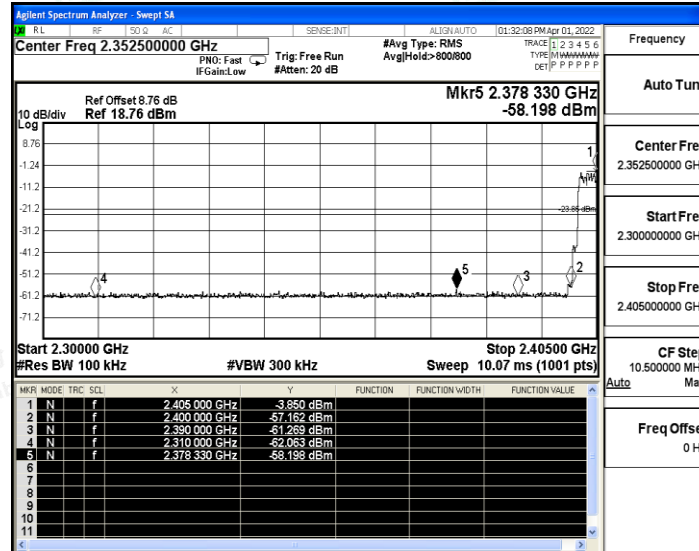


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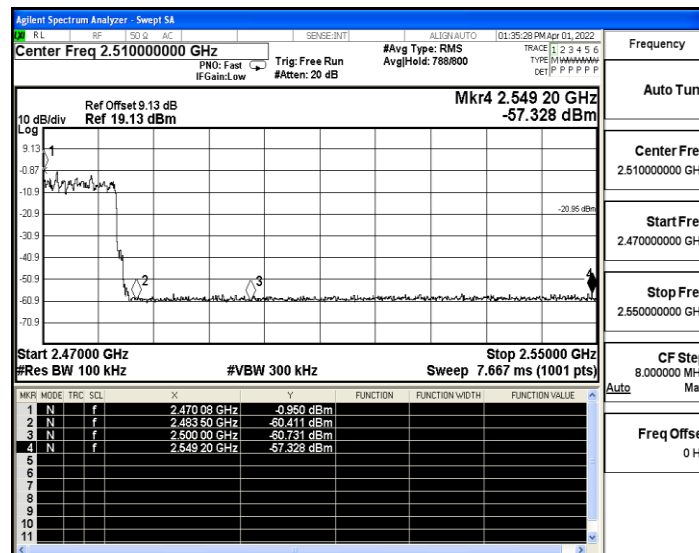
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2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

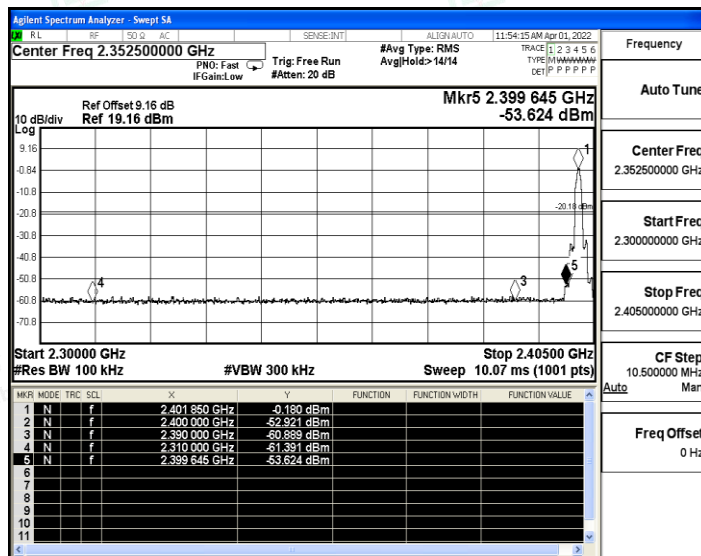


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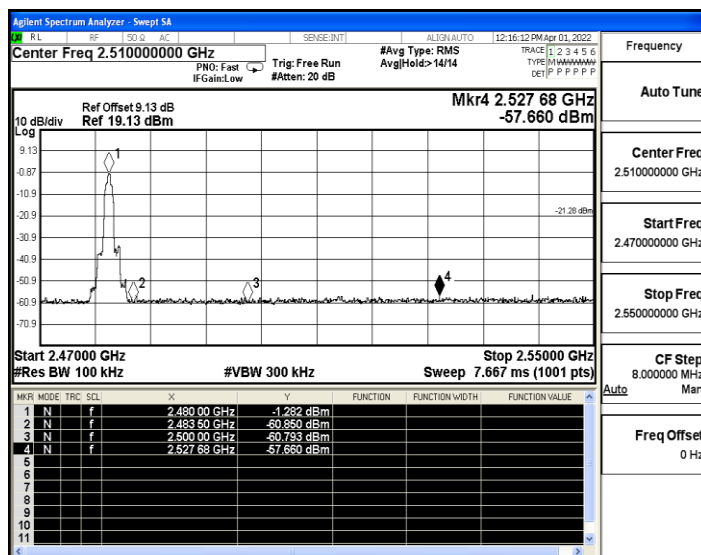
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3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

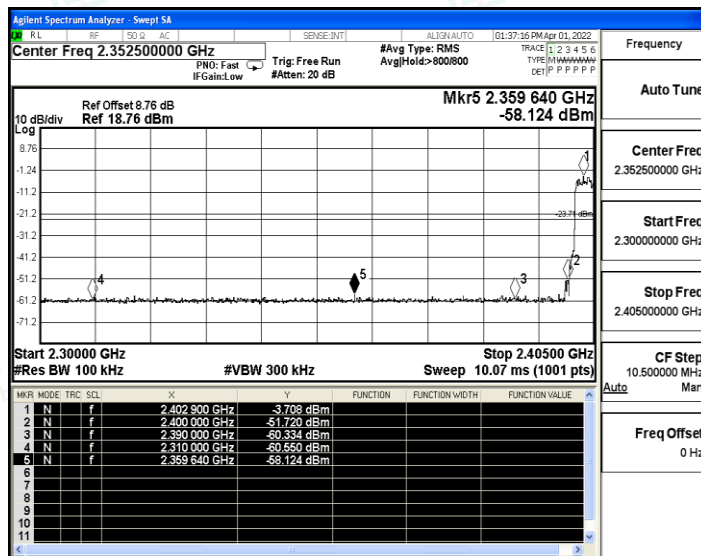


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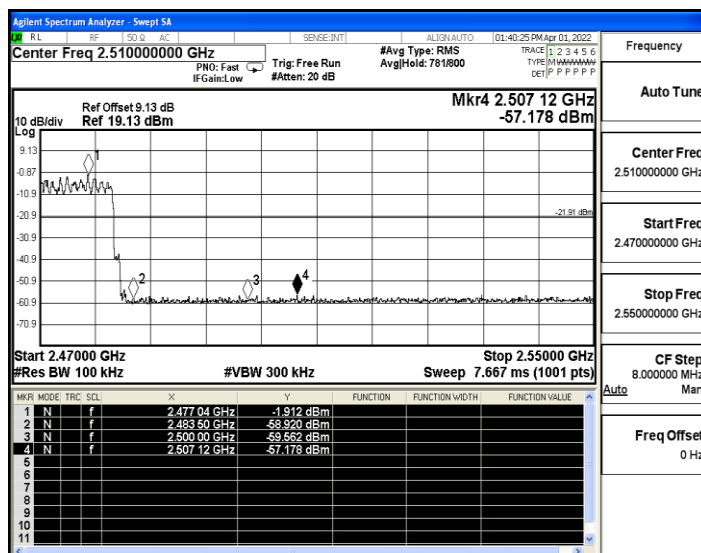
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3DH5_Ant1_High_Hop_2480



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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	0.07	0.07	---	PASS
			30~1000	0.07	-59.68	≤-19.93	PASS
			1000~26500	0.07	-45.99	≤-19.93	PASS
		2441	Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-47.03	≤-21.86	PASS
			1000~26500	-1.86	-45.78	≤-21.86	PASS
		2480	Reference	-1.42	-1.42	---	PASS
			30~1000	-1.42	-59.75	≤-21.42	PASS
			1000~26500	-1.42	-46.19	≤-21.42	PASS
2DH5	Ant1	2402	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-59.85	≤-19.93	PASS
			1000~26500	0.07	-45.96	≤-19.93	PASS
		2441	Reference	-1.93	-1.93	---	PASS
			30~1000	-1.93	-59.31	≤-21.93	PASS
			1000~26500	-1.93	-45.59	≤-21.93	PASS
		2480	Reference	-1.38	-1.38	---	PASS
			30~1000	-1.38	-60.93	≤-21.38	PASS
			1000~26500	-1.38	-45.66	≤-21.38	PASS
3DH5	Ant1	2402	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-59.4	≤-19.88	PASS
			1000~26500	0.12	-45.18	≤-19.88	PASS
		2441	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-60.04	≤-21.92	PASS
			1000~26500	-1.92	-45.49	≤-21.92	PASS
		2480	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-60.31	≤-21.32	PASS
			1000~26500	-1.32	-45.85	≤-21.32	PASS



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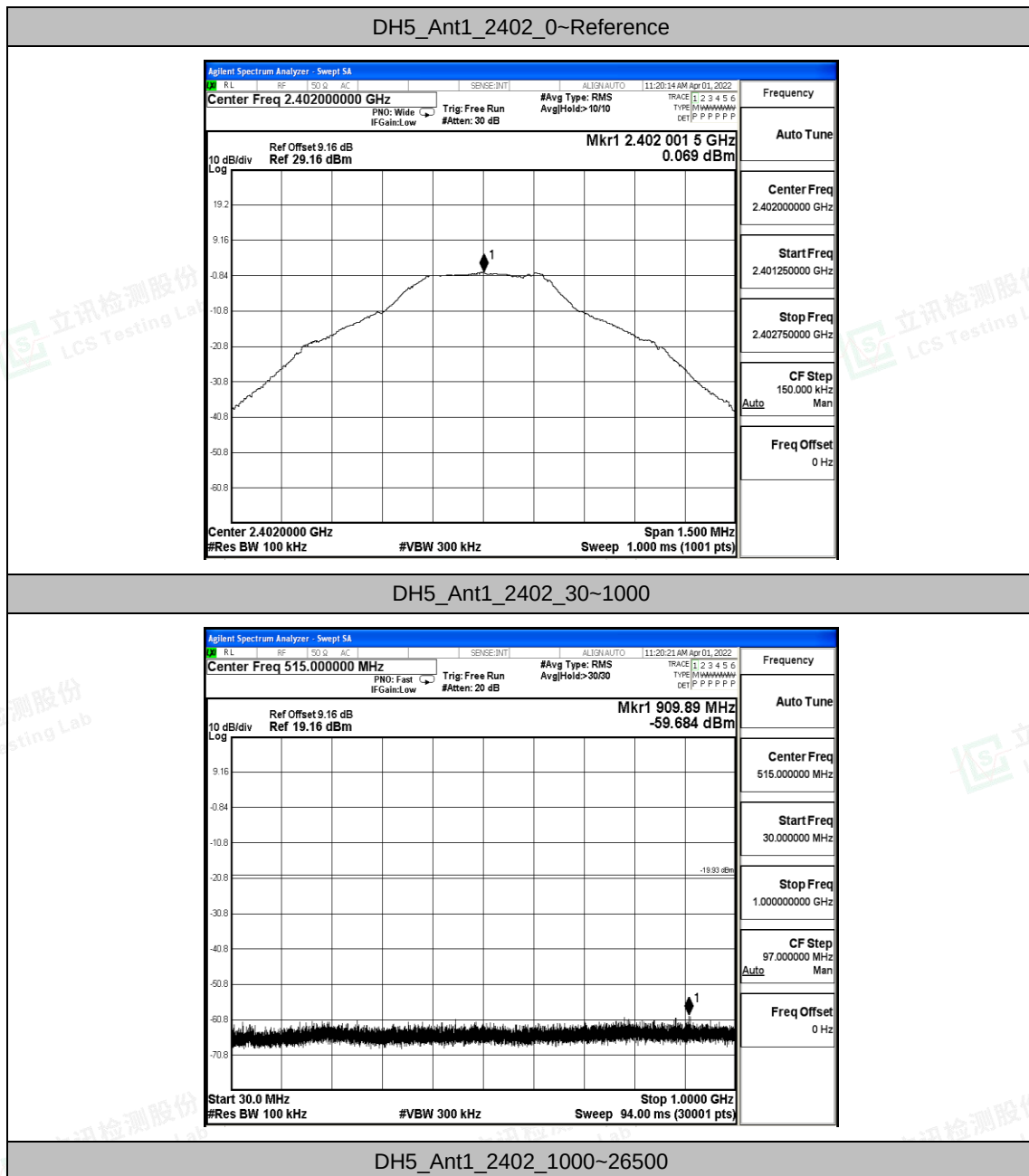
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Test Graphs

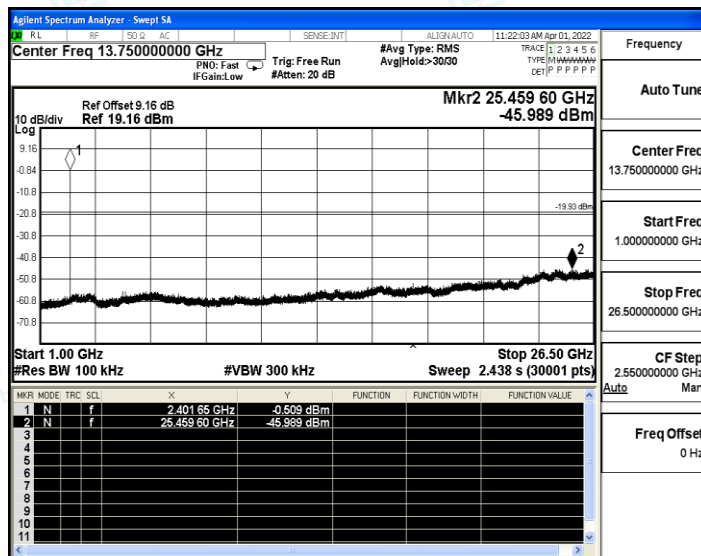


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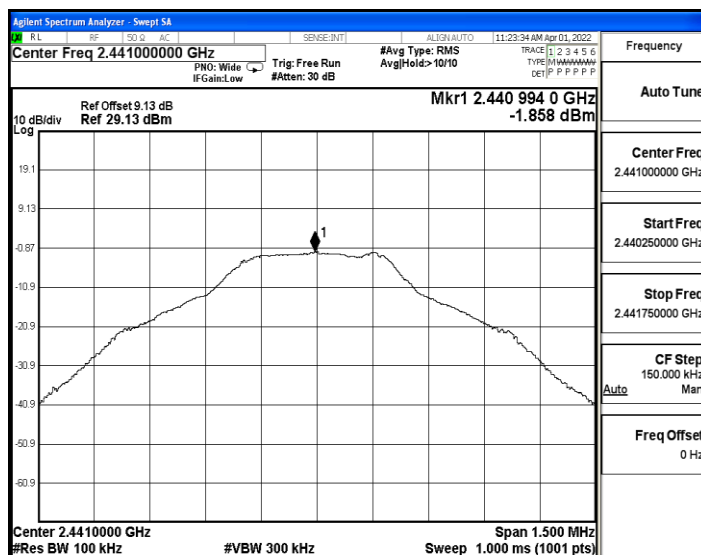
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DH5_Ant1_2441_0-Reference



DH5_Ant1_2441_30~1000

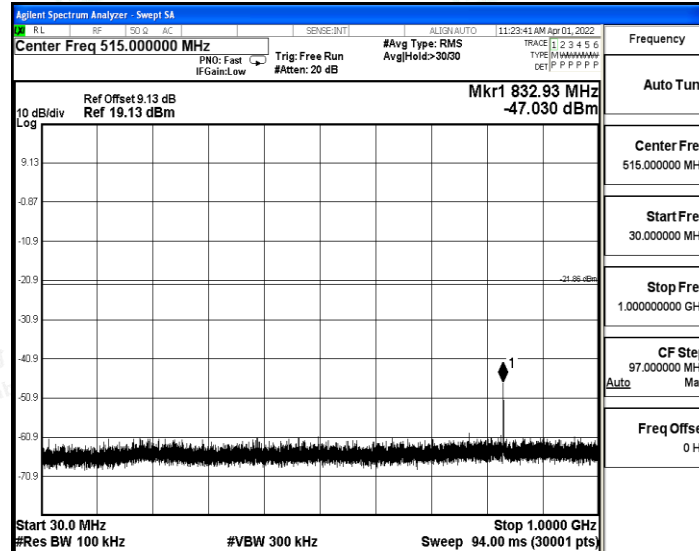


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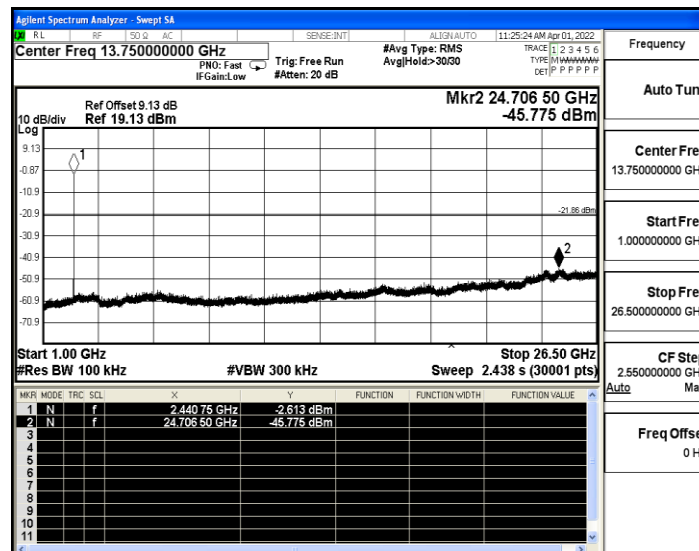
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0-Reference

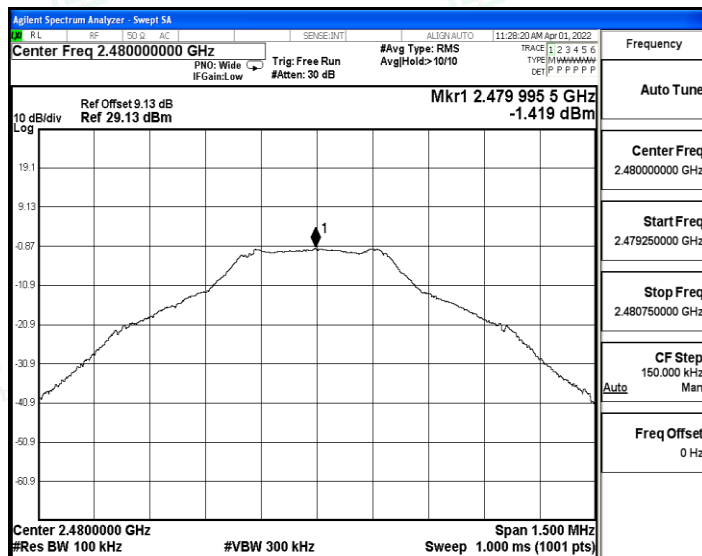


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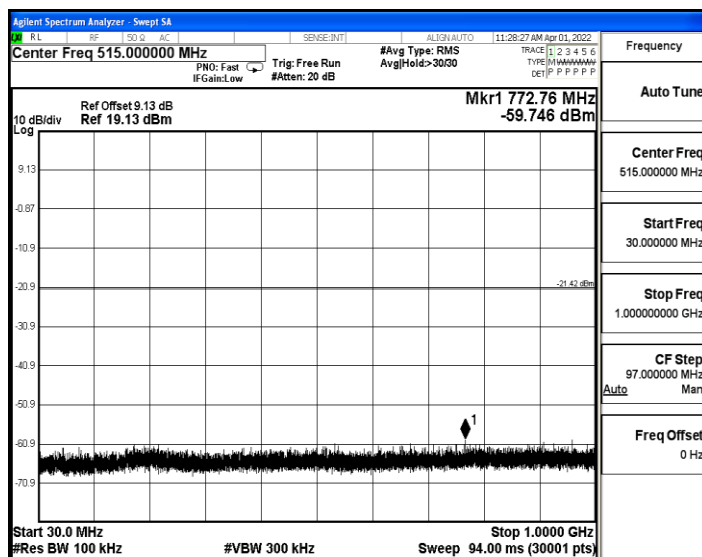
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DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

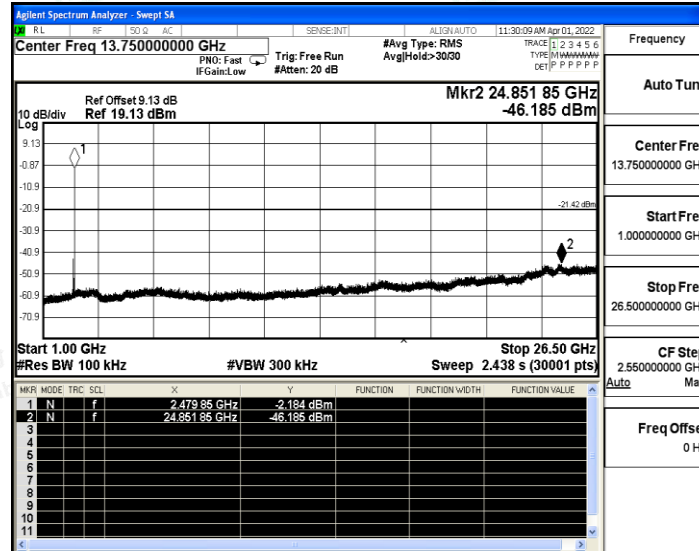


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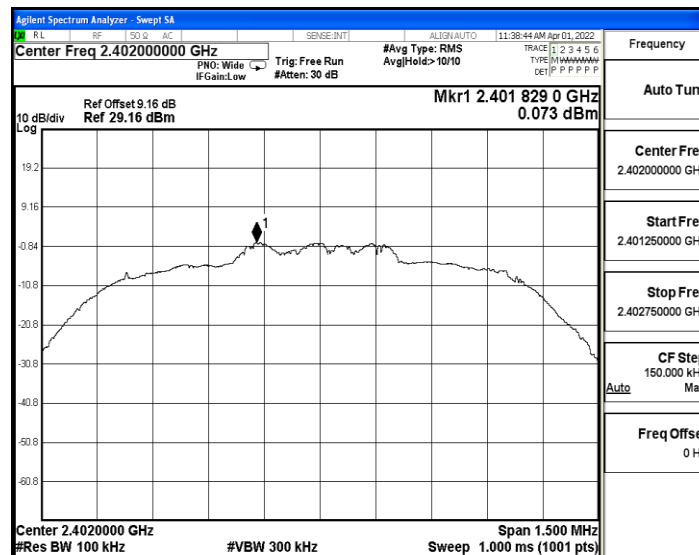
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2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000

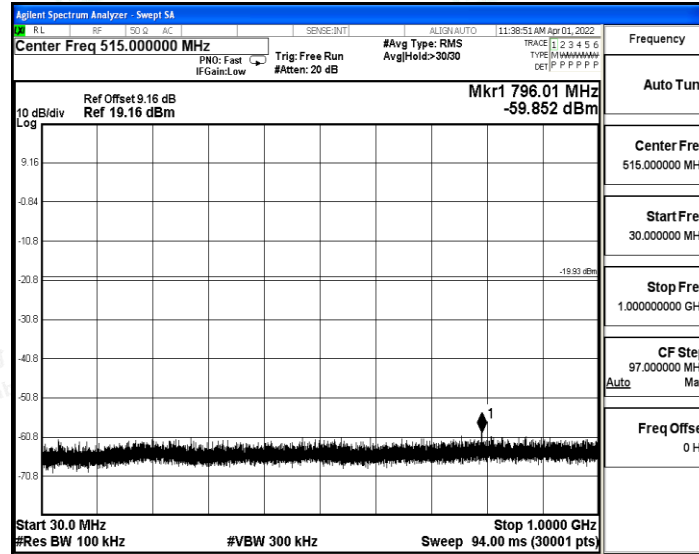


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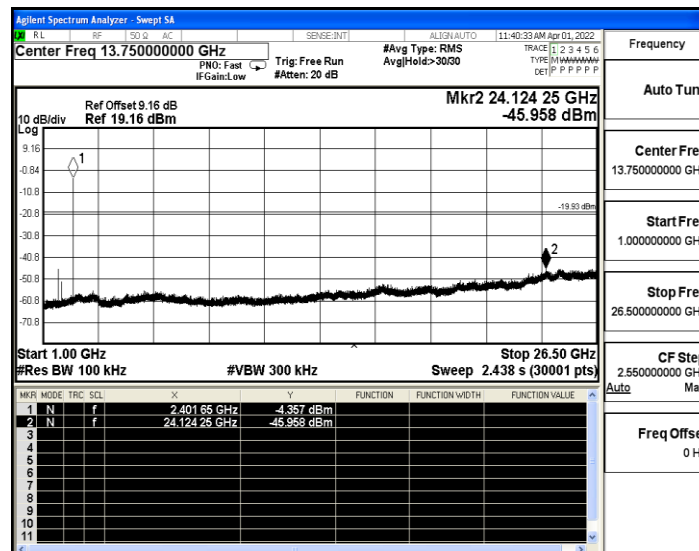
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2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference

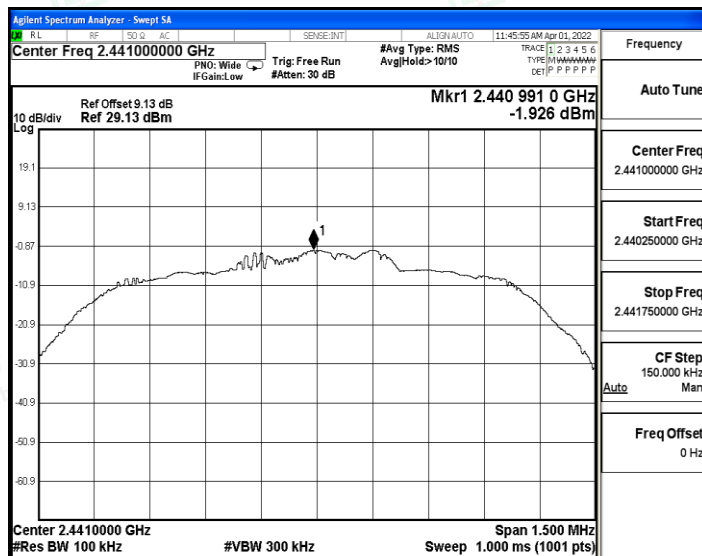


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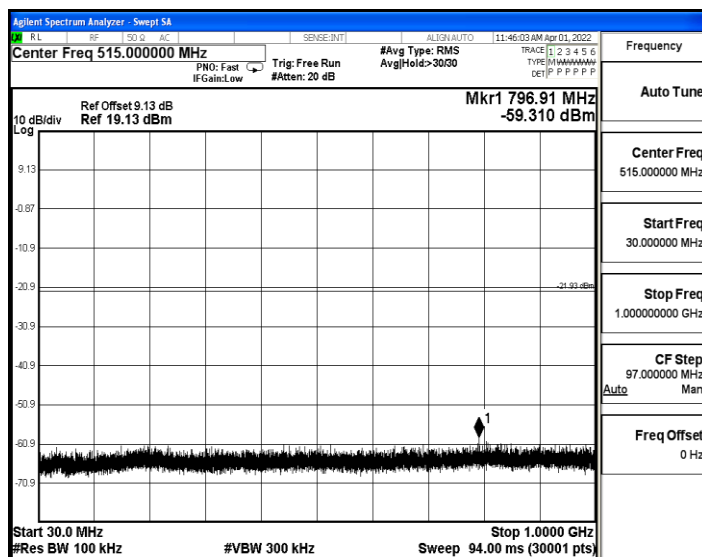
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

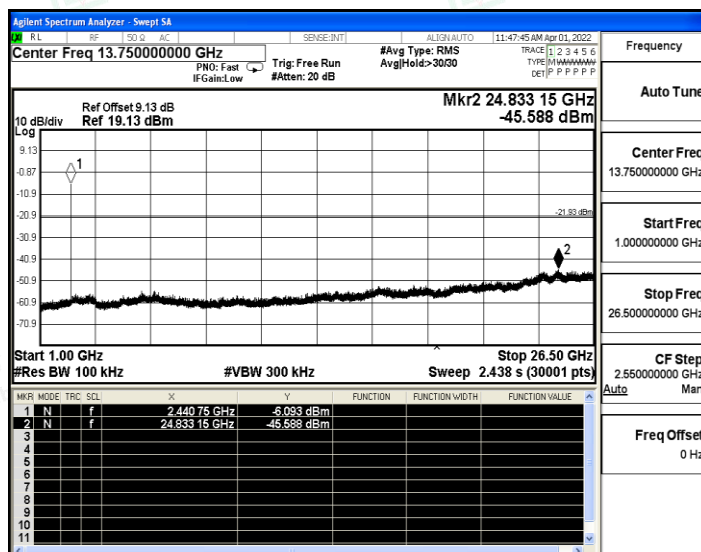


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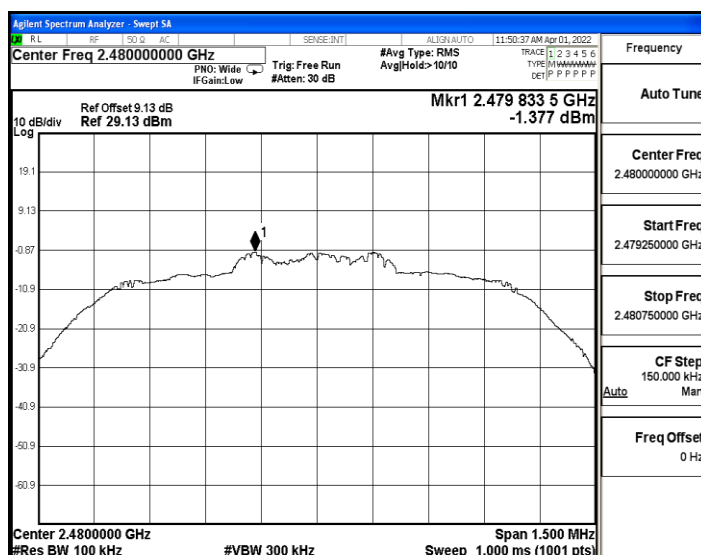
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000

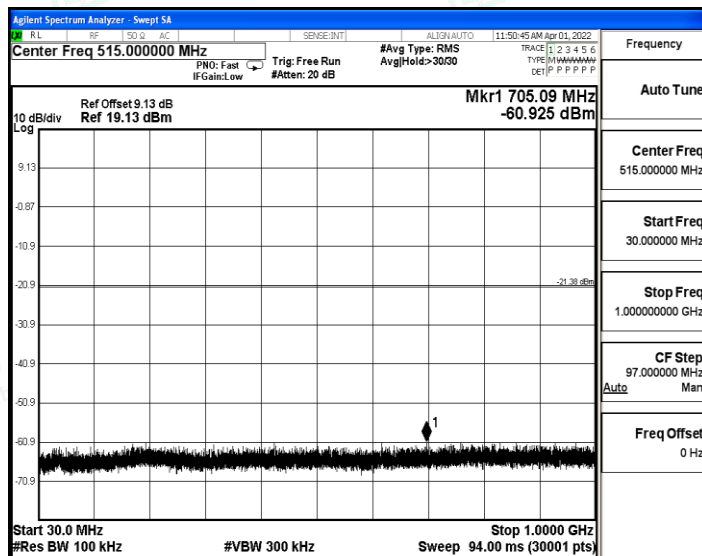


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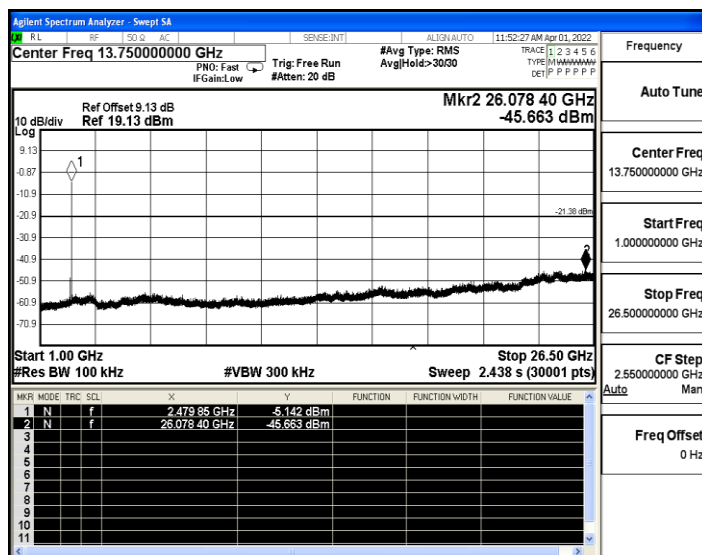
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2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

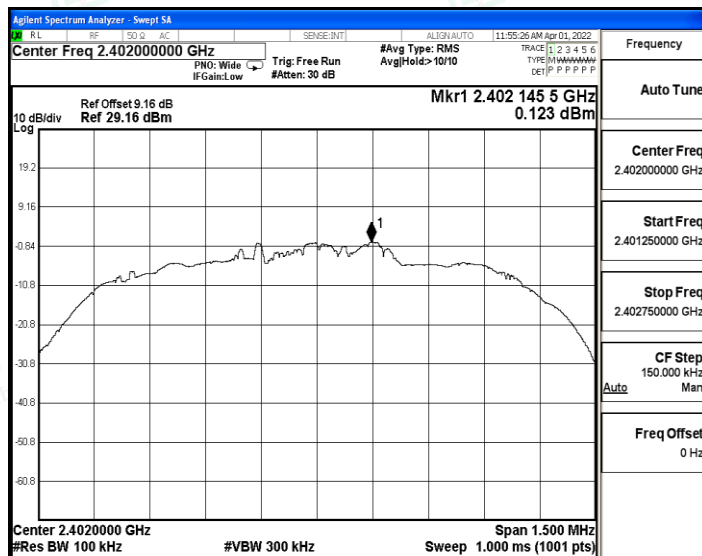


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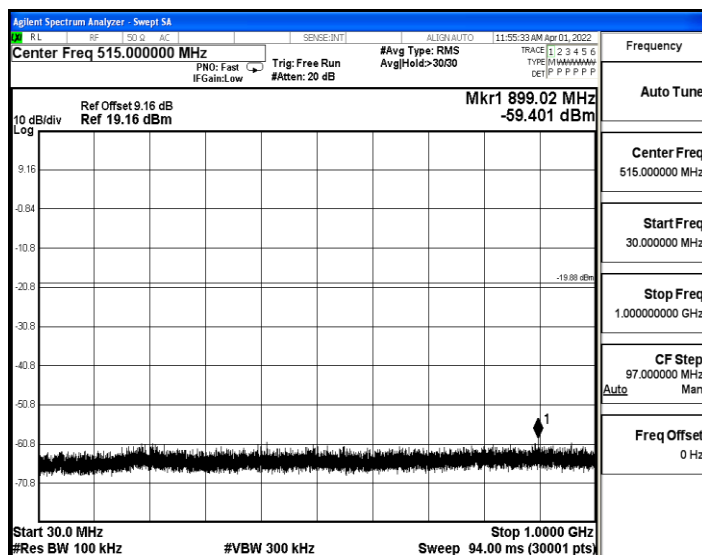
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3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

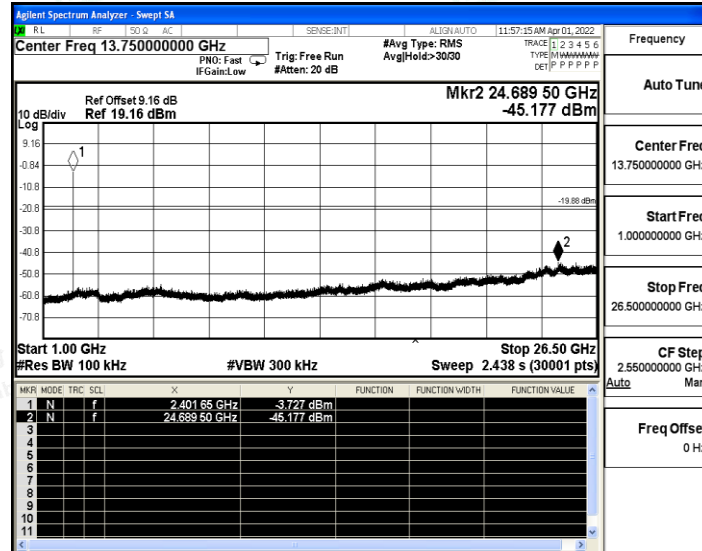


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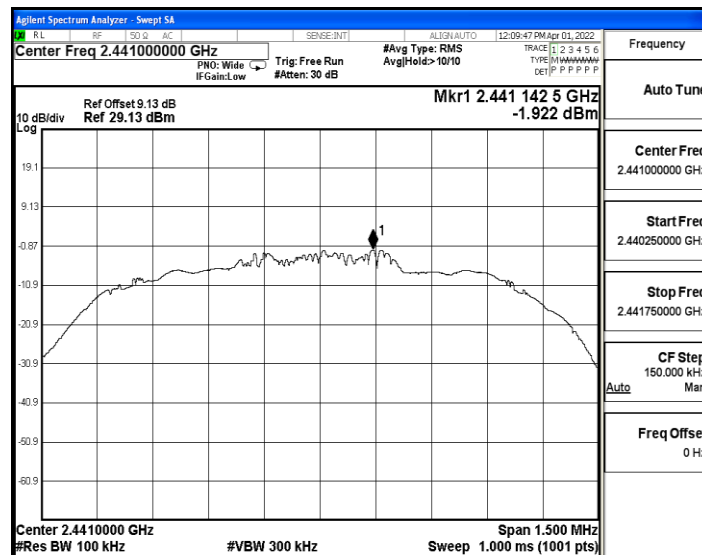
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

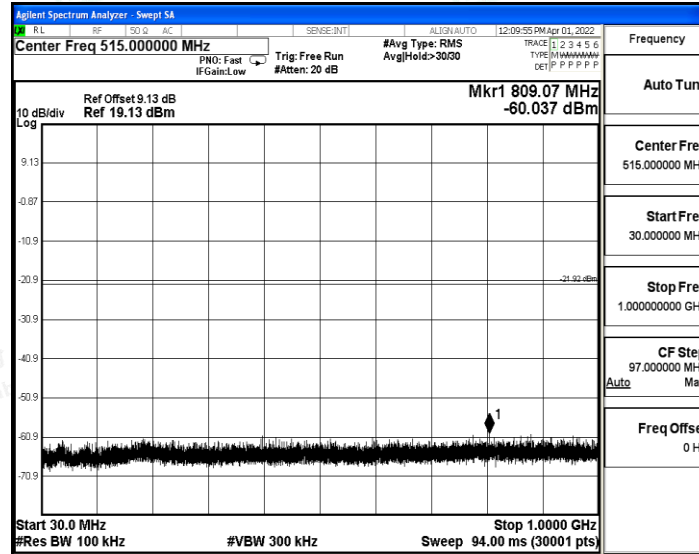


Shenzhen LCS Compliance Testing Laboratory Ltd.

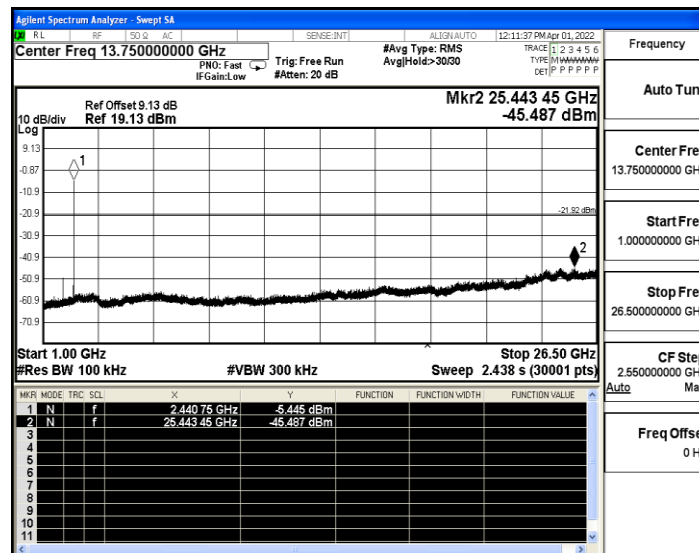
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

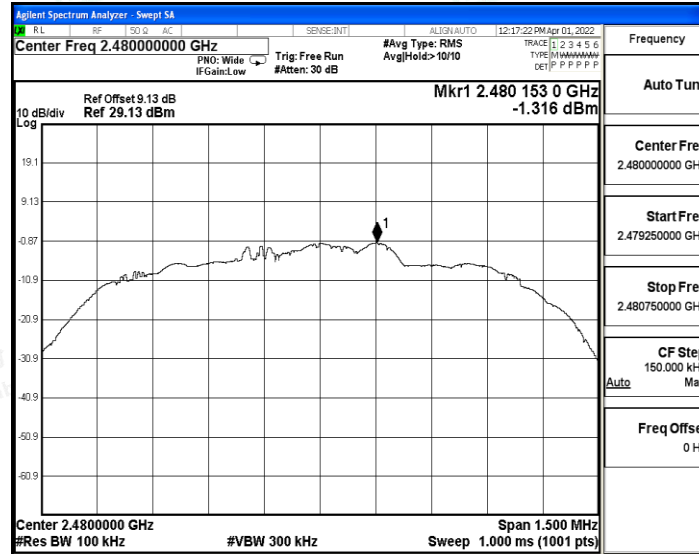


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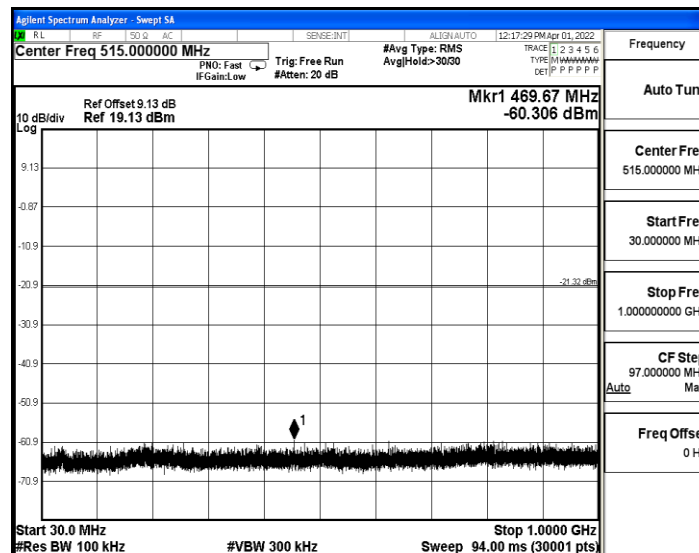
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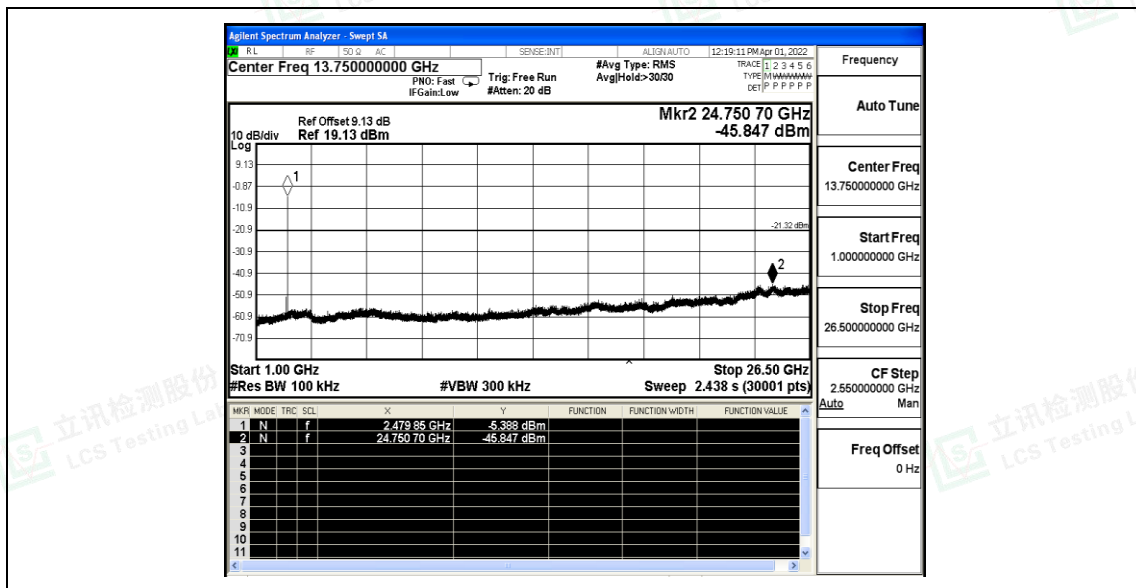


3DH5_Ant1_2480_30~1000



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	-57.88	≤-41.20	37.32	≤54	PASS
				AV	2389.670	-57.12	≤-41.20	38.08	≤54	PASS
				AV	2390.000	-57.32	≤-41.20	37.88	≤54	PASS
				Peak	2310.000	-48.46	≤-21.20	46.74	≤74	PASS
				Peak	2353.340	-46.36	≤-21.20	48.84	≤74	PASS
				Peak	2390.000	-48.32	≤-21.20	46.88	≤74	PASS
		High	2480	AV	2483.500	-55.73	≤-41.20	39.47	≤54	PASS
				AV	2483.520	-55.73	≤-41.20	39.47	≤54	PASS
				AV	2500.000	-56.85	≤-41.20	38.35	≤54	PASS
				Peak	2483.500	-47.74	≤-21.20	47.46	≤74	PASS
				Peak	2497.120	-45.84	≤-21.20	49.36	≤74	PASS
				Peak	2500.000	-47.87	≤-21.20	47.33	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-48.53	≤-21.20	46.67	≤74	PASS
				Peak	2386.940	-46.78	≤-21.20	48.42	≤74	PASS
				Peak	2390.000	-47.46	≤-21.20	47.74	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-46.91	≤-21.20	48.29	≤74	PASS
				Peak	2498.240	-45.59	≤-21.20	49.61	≤74	PASS
				Peak	2500.000	-47.73	≤-21.20	47.47	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-57.8	≤-41.20	37.40	≤54	PASS
				AV	2380.640	-57.14	≤-41.20	38.06	≤54	PASS
				AV	2390.000	-57.34	≤-41.20	37.86	≤54	PASS
				Peak	2310.000	-48.55	≤-21.20	46.65	≤74	PASS
				Peak	2382.110	-46.16	≤-21.20	49.04	≤74	PASS
				Peak	2390.000	-47.74	≤-21.20	47.46	≤74	PASS
		High	2480	AV	2483.500	-55.01	≤-41.20	40.19	≤54	PASS
				AV	2483.520	-55.01	≤-41.20	40.19	≤54	PASS
				AV	2500.000	-56.85	≤-41.20	38.35	≤54	PASS
				Peak	2483.500	-47.1	≤-21.20	48.10	≤74	PASS
				Peak	2491.120	-45.64	≤-21.20	49.56	≤74	PASS
				Peak	2500.000	-47	≤-21.20	48.20	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-49.37	≤-21.20	45.83	≤74	PASS
				Peak	2320.580	-46.89	≤-21.20	48.31	≤74	PASS
				Peak	2390.000	-48.41	≤-21.20	46.79	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-46.57	≤-21.20	48.63	≤74	PASS
				Peak	2490.080	-45.53	≤-21.20	49.67	≤74	PASS



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				Peak	2500.000	-48.01	≤-21.20	47.19	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-57.93	≤-41.20	37.27	≤54	PASS
				AV	2388.935	-57.09	≤-41.20	38.11	≤54	PASS
				AV	2390.000	-57.26	≤-41.20	37.94	≤54	PASS
				Peak	2310.000	-48.8	≤-21.20	46.40	≤74	PASS
				Peak	2332.760	-46.32	≤-21.20	48.88	≤74	PASS
				Peak	2390.000	-48.04	≤-21.20	47.16	≤74	PASS
		High	2480	AV	2483.500	-54.93	≤-41.20	40.27	≤54	PASS
				AV	2483.520	-54.93	≤-41.20	40.27	≤54	PASS
				AV	2500.000	-56.81	≤-41.20	38.39	≤54	PASS
				Peak	2483.500	-46.07	≤-21.20	49.13	≤74	PASS
				Peak	2495.200	-45.78	≤-21.20	49.42	≤74	PASS
				Peak	2500.000	-47.26	≤-21.20	47.94	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-48.75	≤-21.20	46.45	≤74	PASS
				Peak	2376.965	-46.74	≤-21.20	48.46	≤74	PASS
				Peak	2390.000	-49.18	≤-21.20	46.02	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-47.86	≤-21.20	47.34	≤74	PASS
				Peak	2490.160	-46.17	≤-21.20	49.03	≤74	PASS
				Peak	2500.000	-47.47	≤-21.20	47.73	≤74	PASS

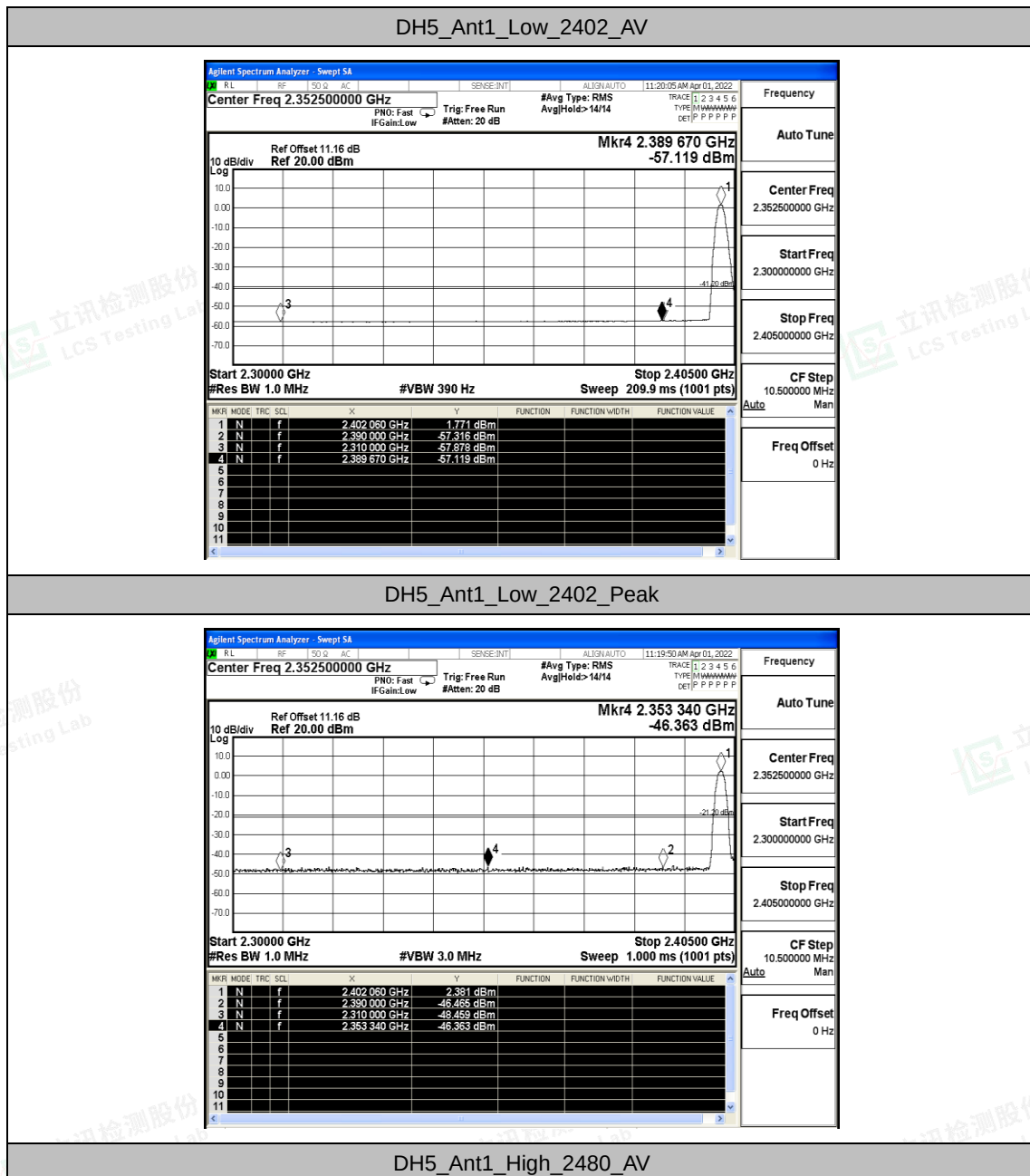
Note:

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

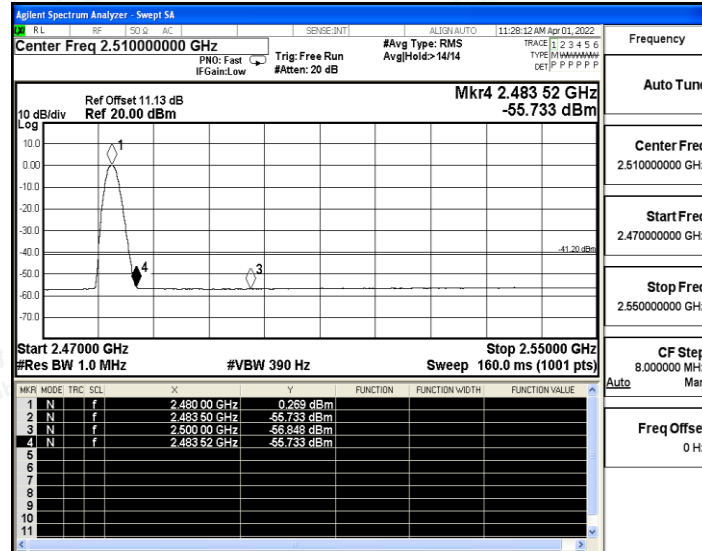


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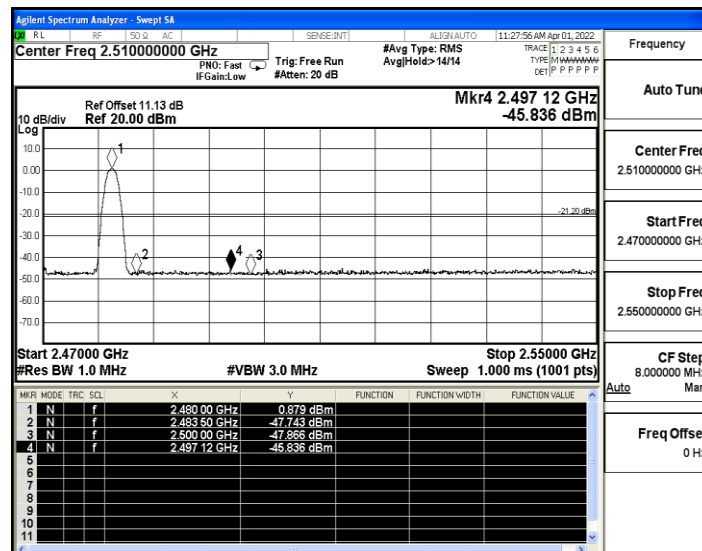
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DH5_Ant1_High_2480_Peak



DH5_Ant1_Low_Hop_2402_Peak

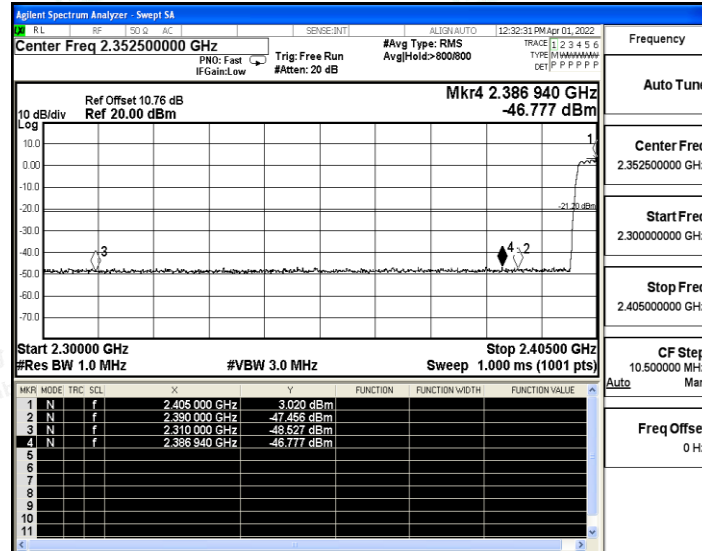


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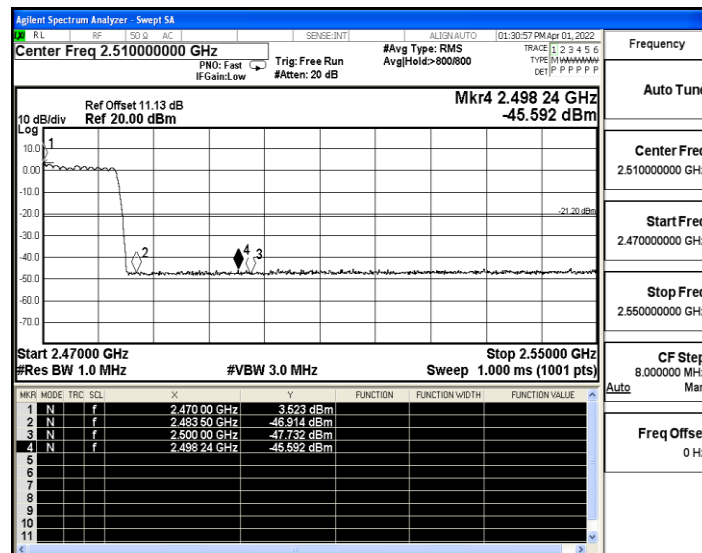
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DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV

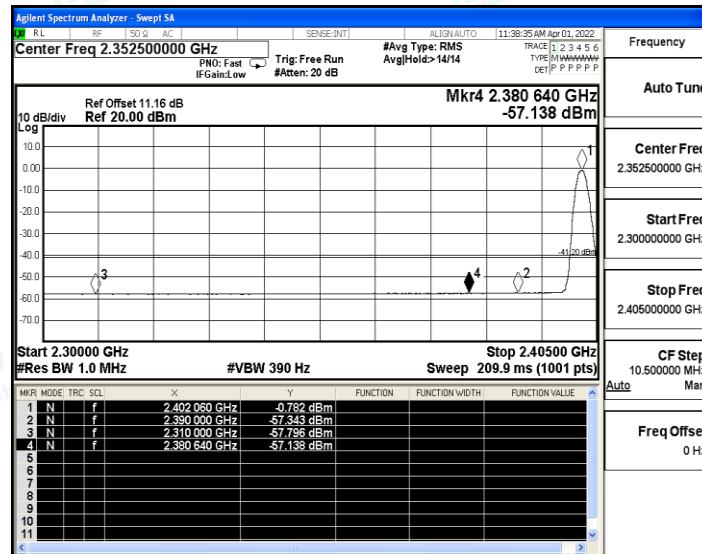


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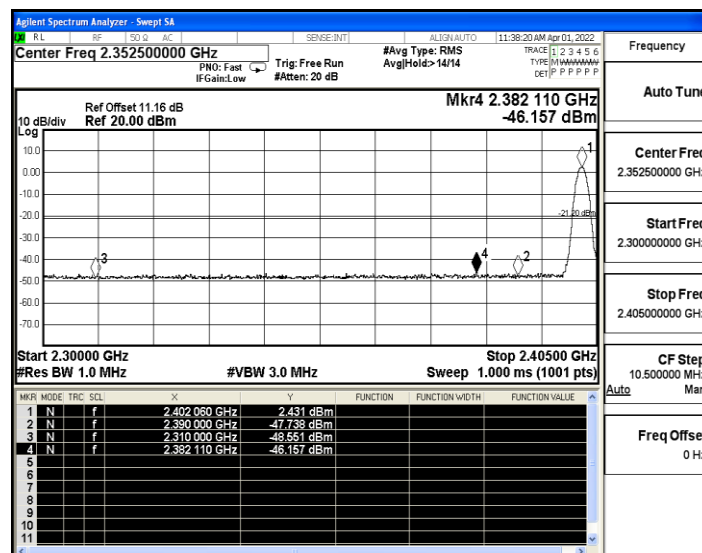
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2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

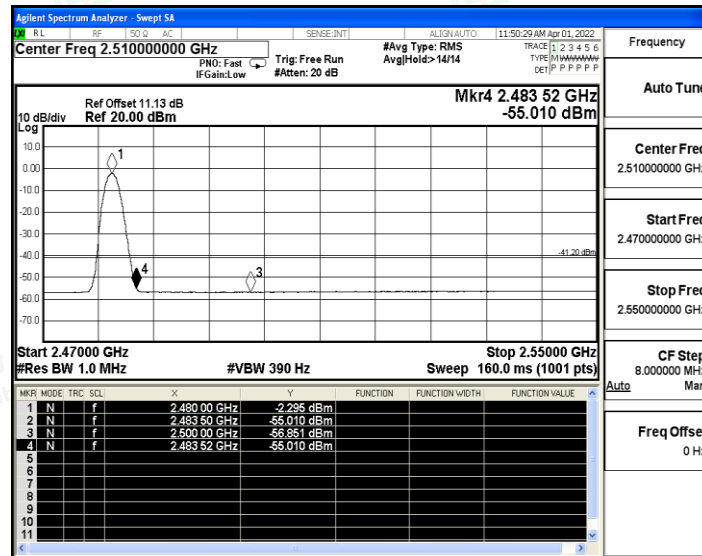


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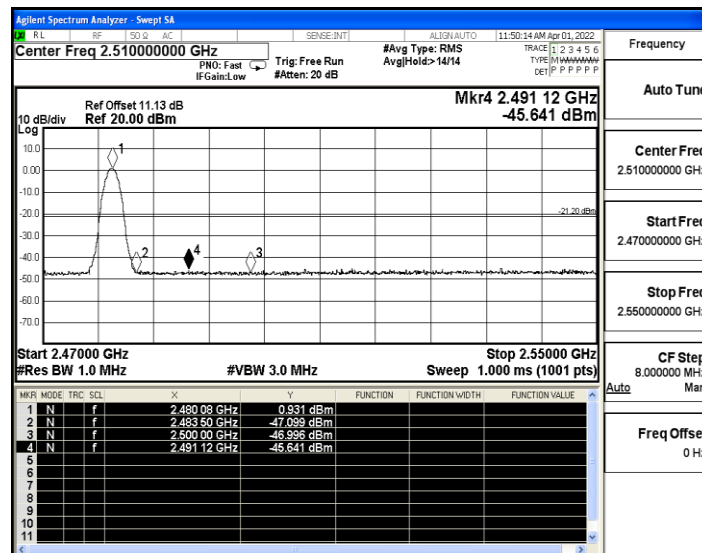
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2DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_Hop_2402_Peak

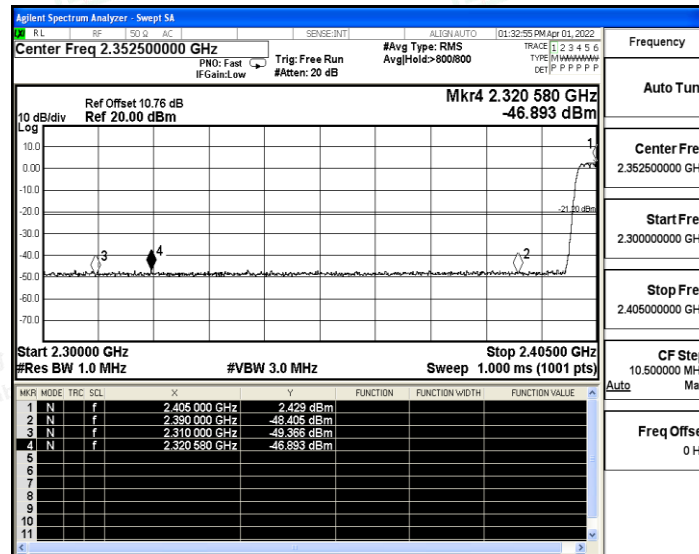


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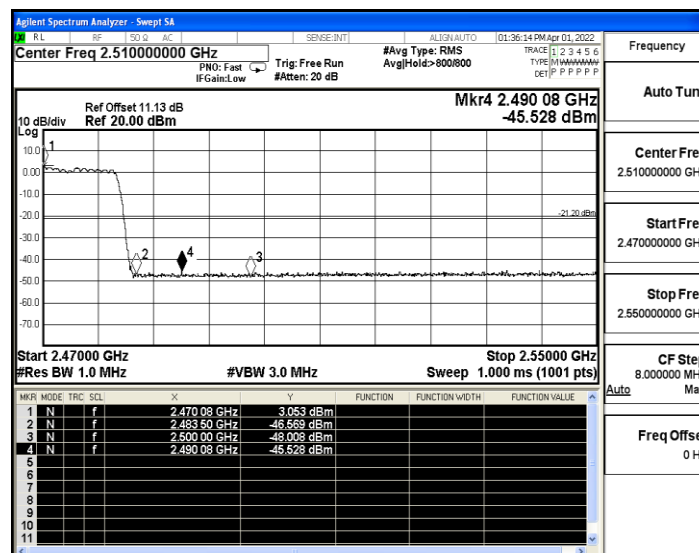
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2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

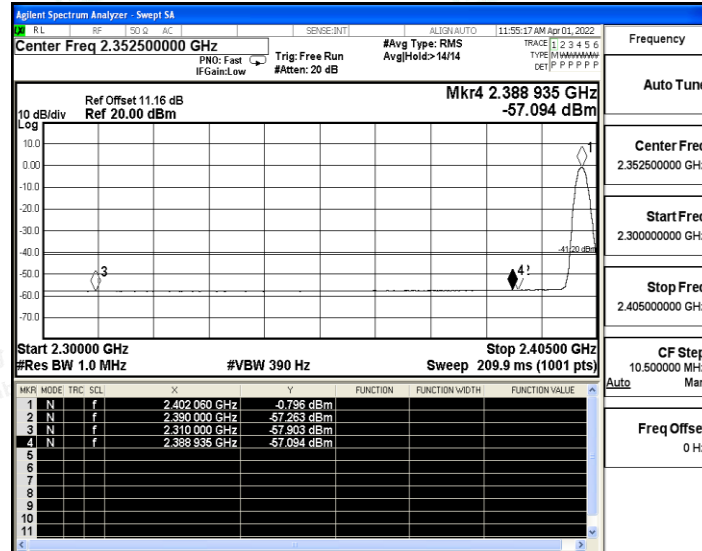


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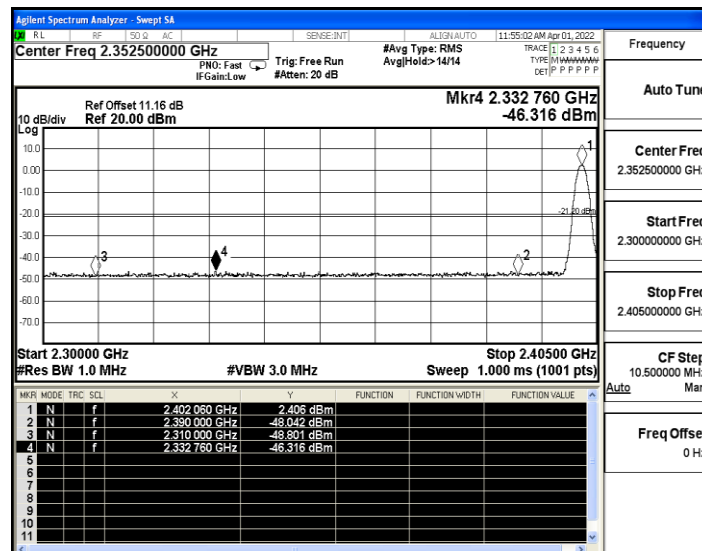
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3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV

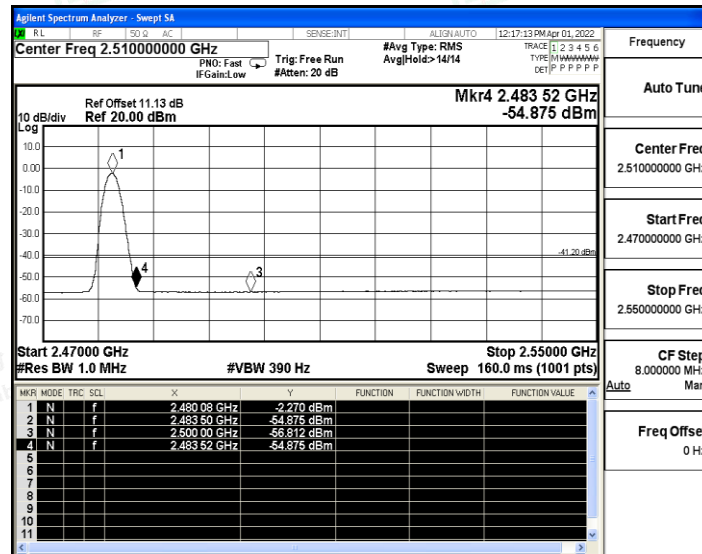


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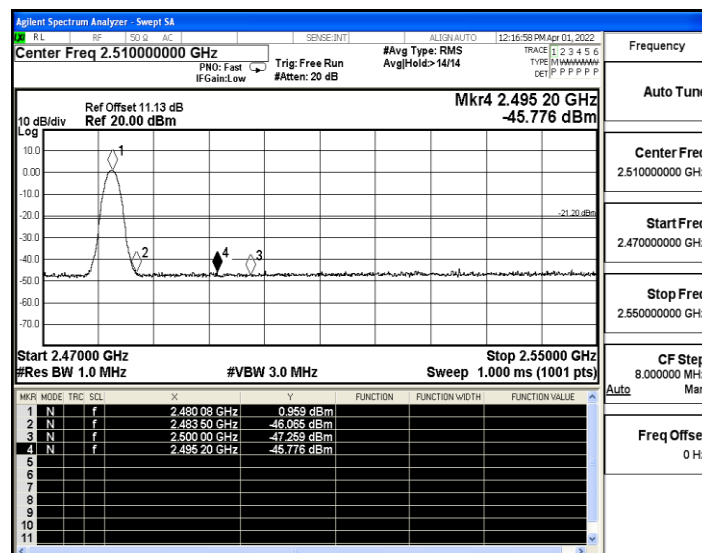
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

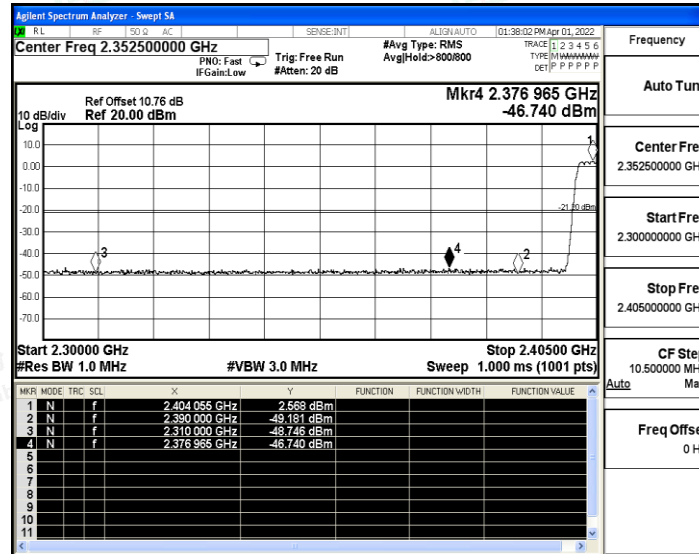


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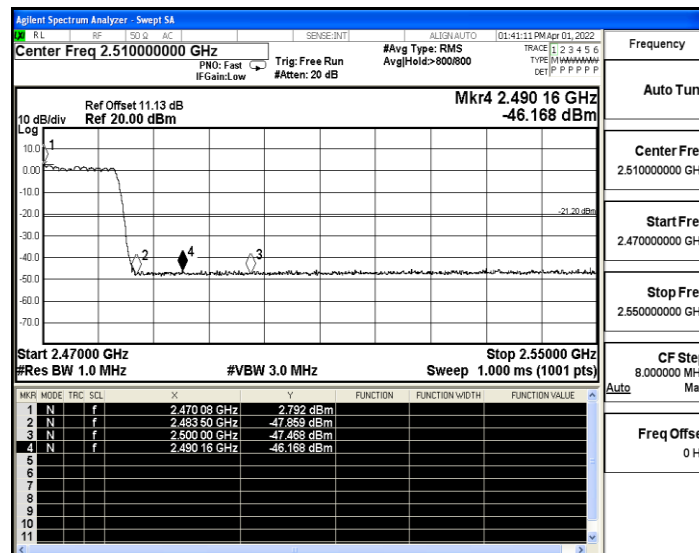
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3DH5_Ant1_High_Hop_2480_Peak



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