



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Magnetic headphones with wire

Test Model: N6

Environmental Conditions

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





A.1 20dB Emission Bandwidth

Test Result

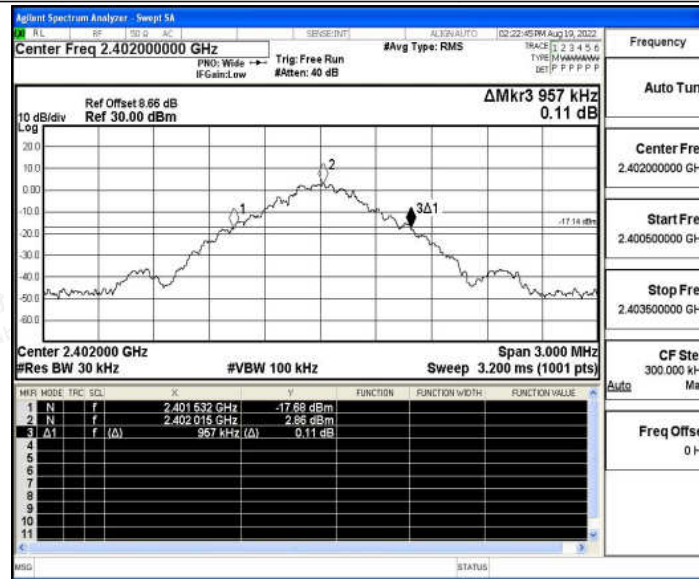
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.957	2401.532	2402.489	---
		2441	0.957	2440.535	2441.492	---
		2480	0.942	2479.535	2480.477	---
2DH5	Ant1	2402	1.308	2401.343	2402.651	---
		2441	1.317	2440.340	2441.657	---
		2480	1.356	2479.325	2480.681	---
3DH5	Ant1	2402	1.011	2401.493	2402.504	---
		2441	0.993	2440.496	2441.489	---
		2480	0.921	2479.541	2480.462	---



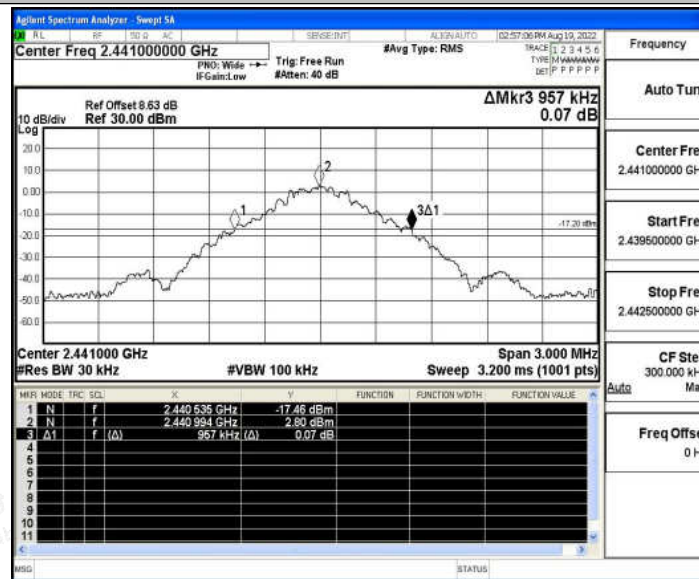


Test Graphs

DH5_Ant1_2402

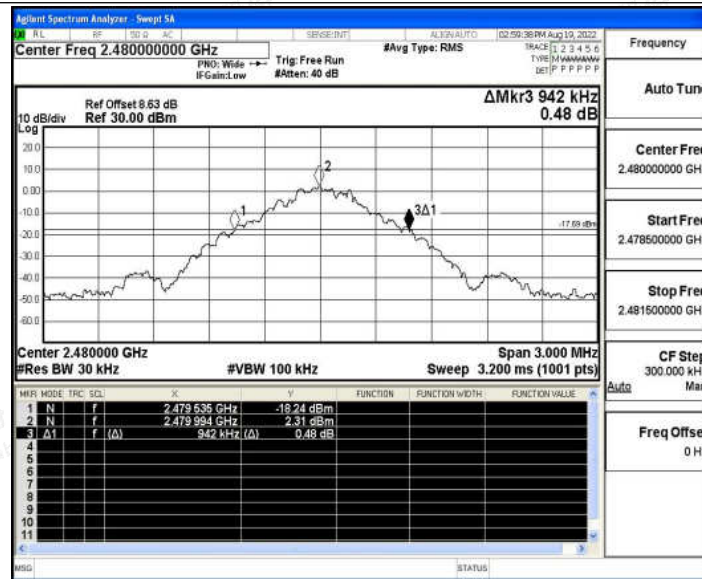


DH5_Ant1_2441

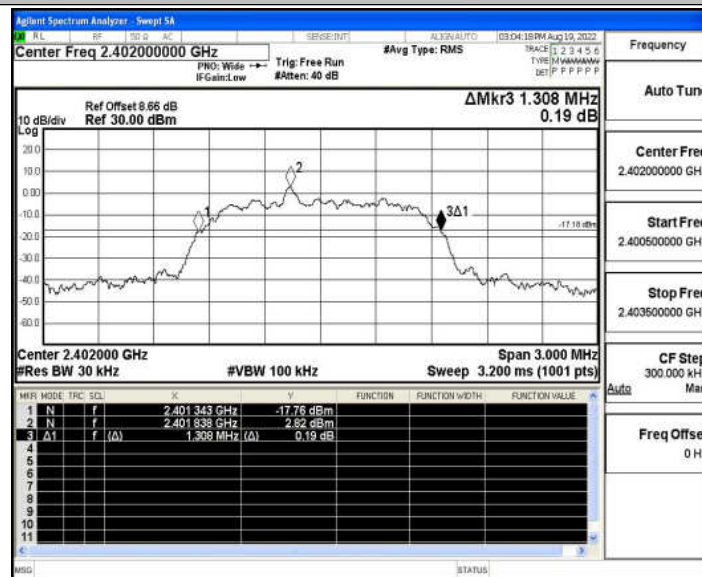


DH5_Ant1_2480



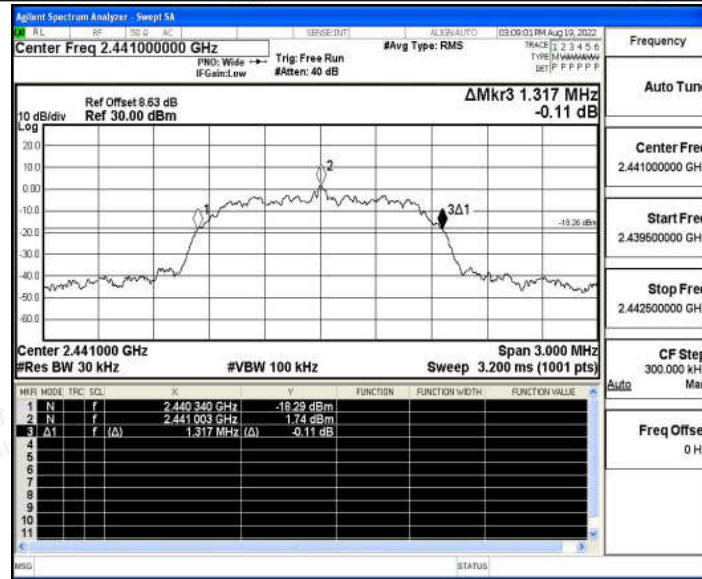


2DH5_Ant1_2402

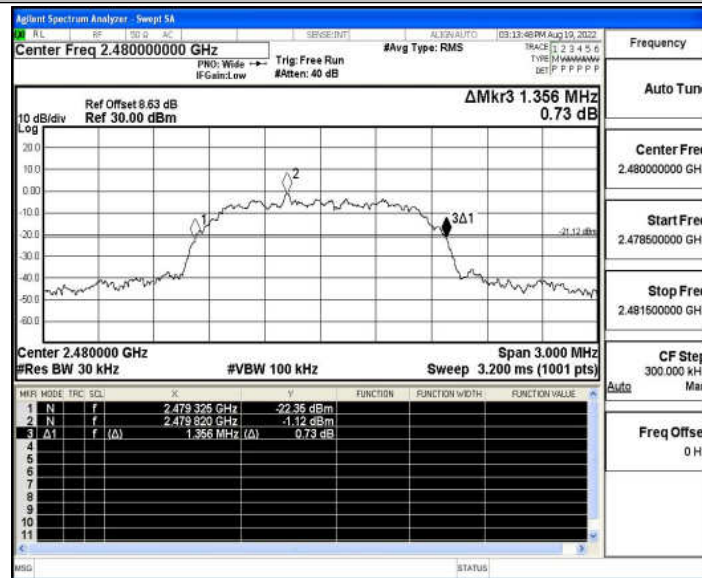


2DH5_Ant1_2441



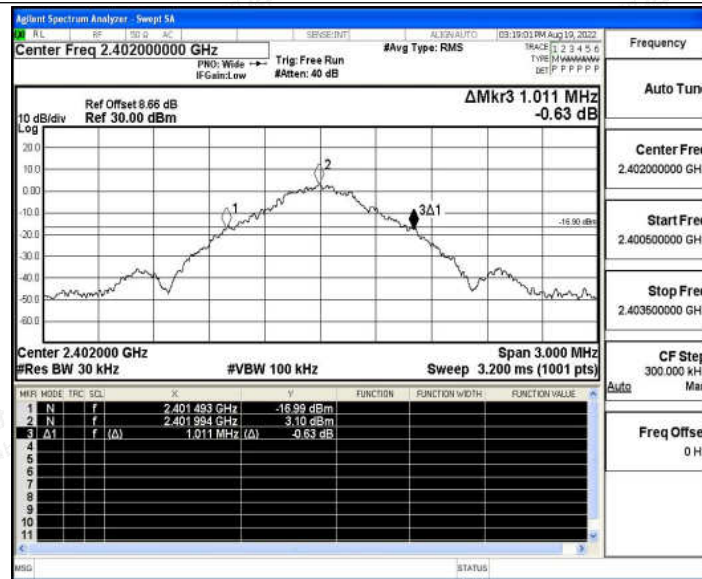


2DH5_Ant1_2480

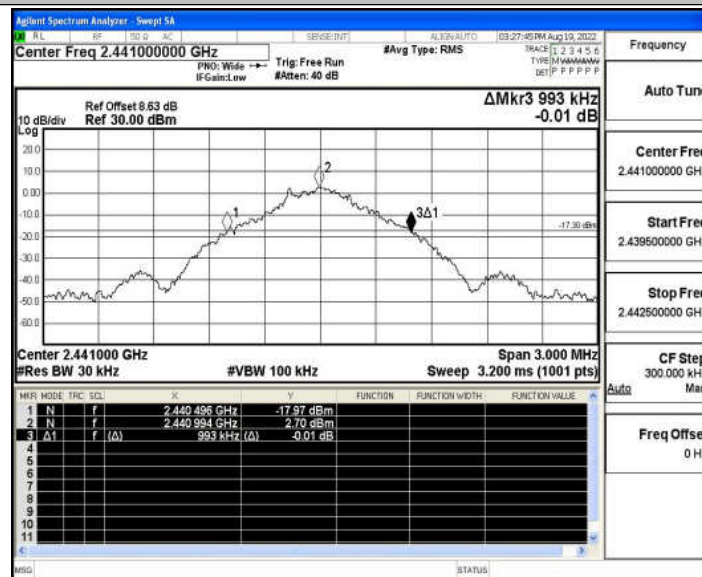


3DH5_Ant1_2402



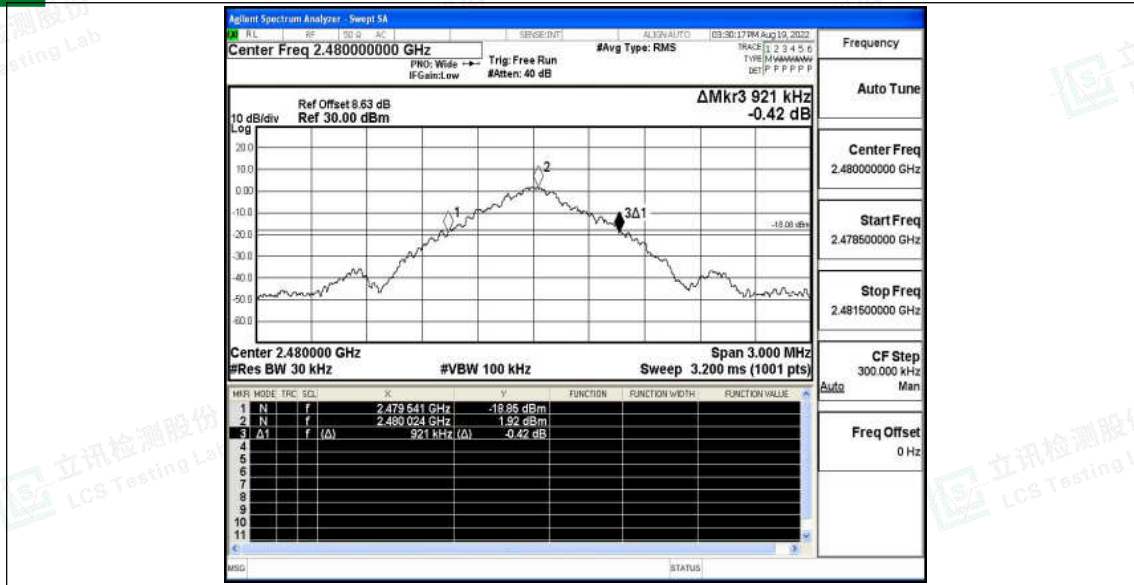


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum conducted output power

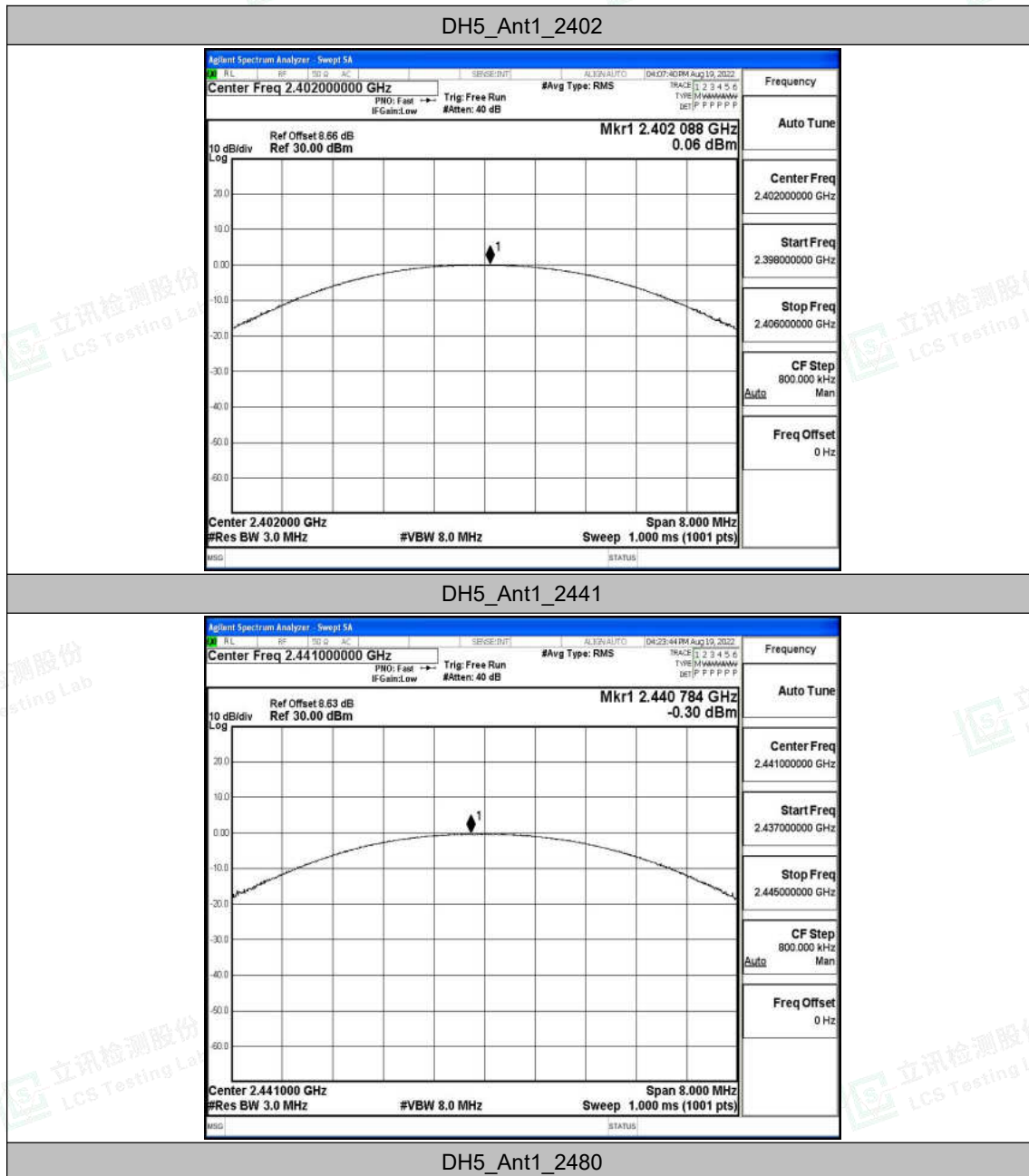
Test Result

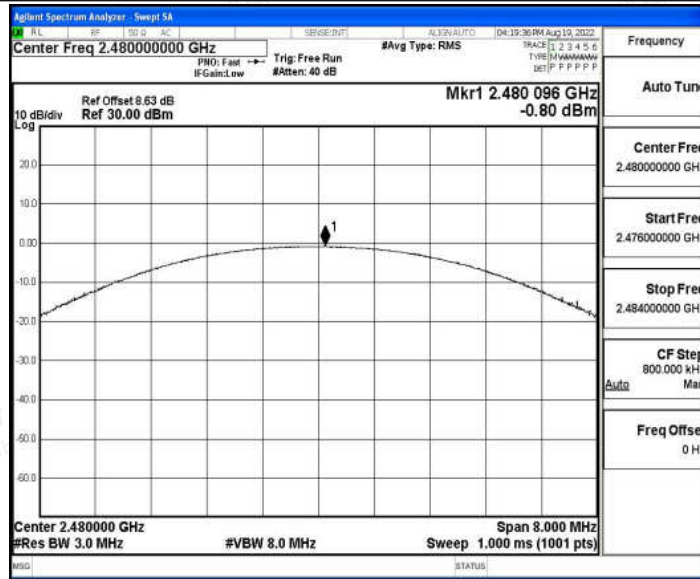
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.06	≤20.97	PASS
		2441	-0.3	≤20.97	PASS
		2480	-0.8	≤20.97	PASS
2DH5	Ant1	2402	0.71	≤20.97	PASS
		2441	0.49	≤20.97	PASS
		2480	-0.13	≤20.97	PASS
3DH5	Ant1	2402	0.04	≤20.97	PASS
		2441	-0.27	≤20.97	PASS
		2480	-0.81	≤20.97	PASS



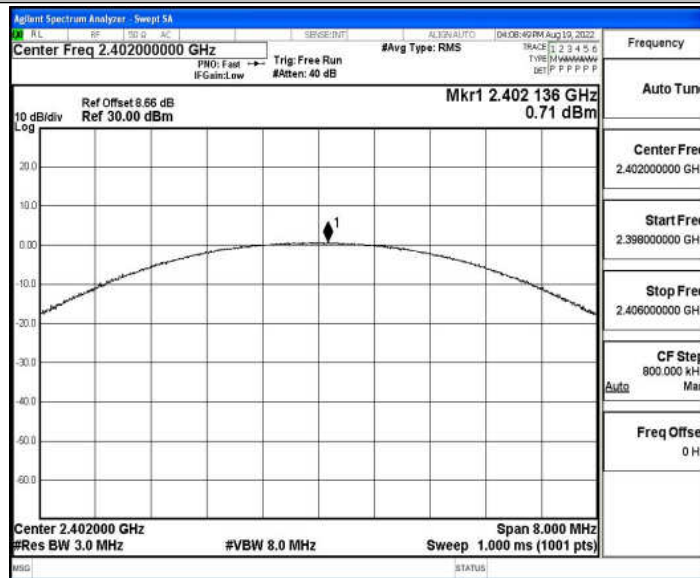


Test Graphs



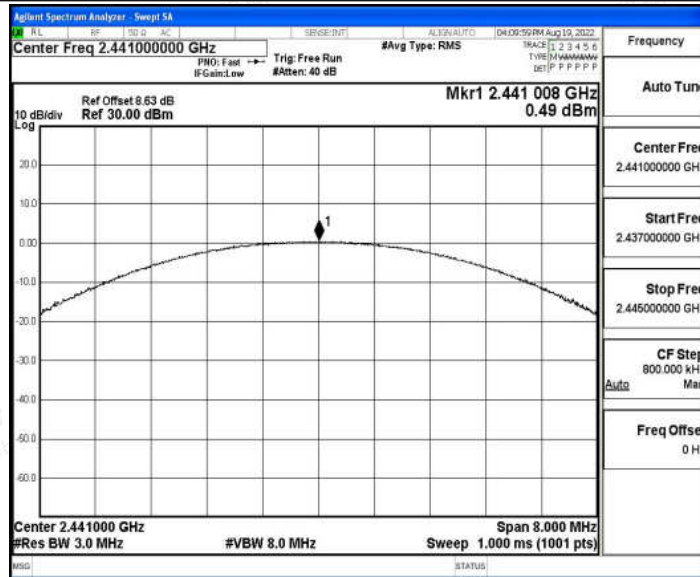


2DH5_Ant1_2402

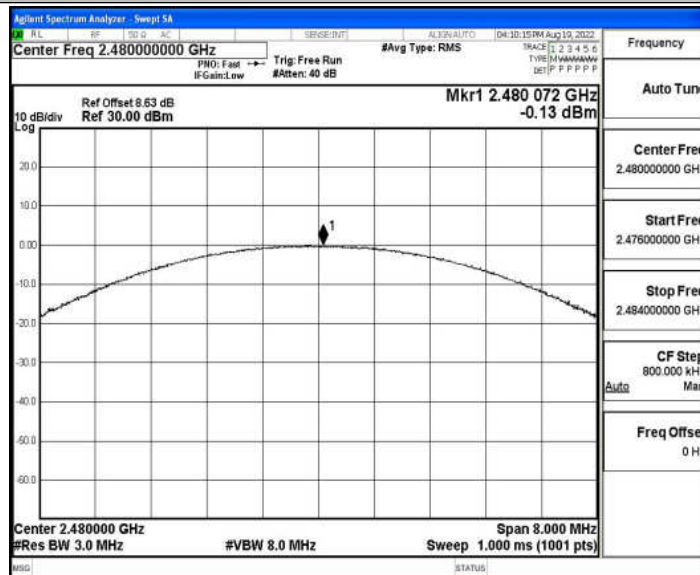


2DH5_Ant1_2441



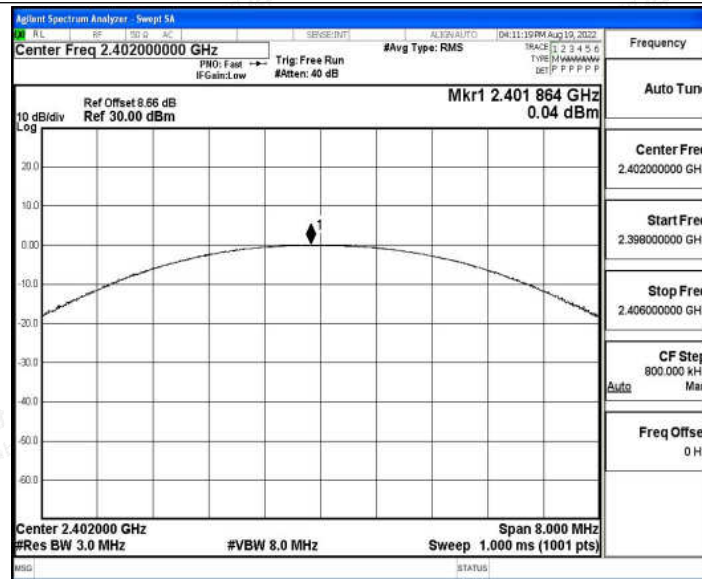


2DH5_Ant1_2480

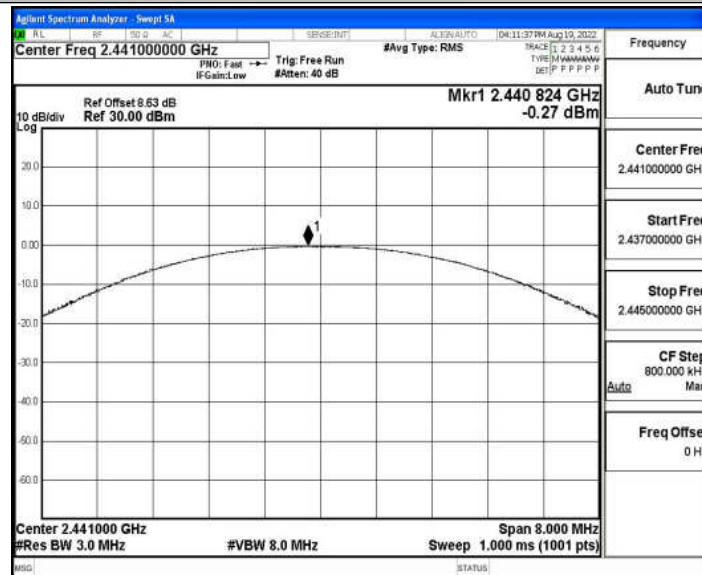


3DH5_Ant1_2402



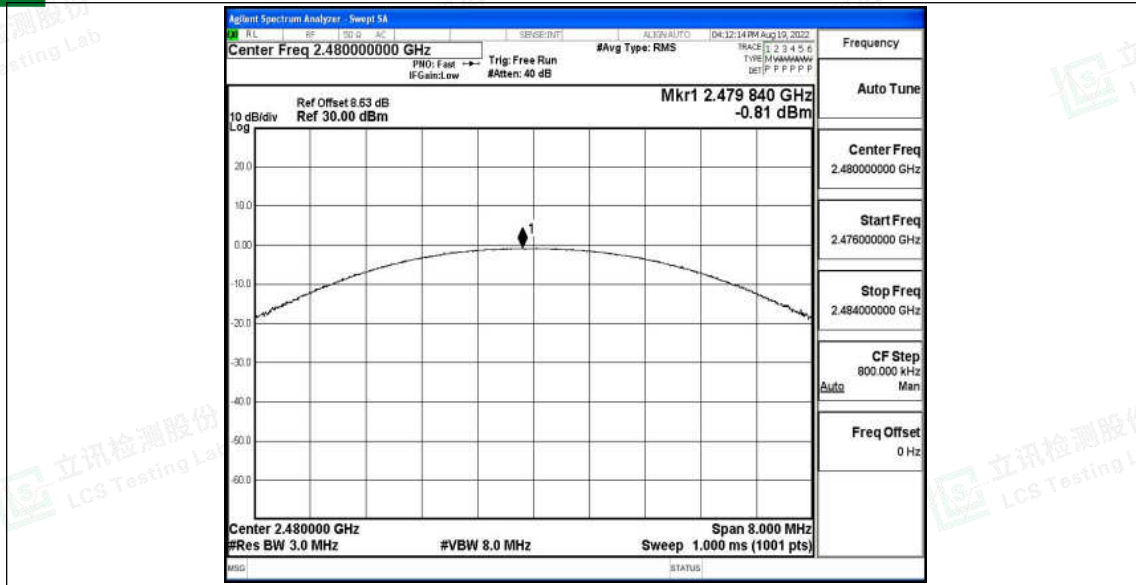


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

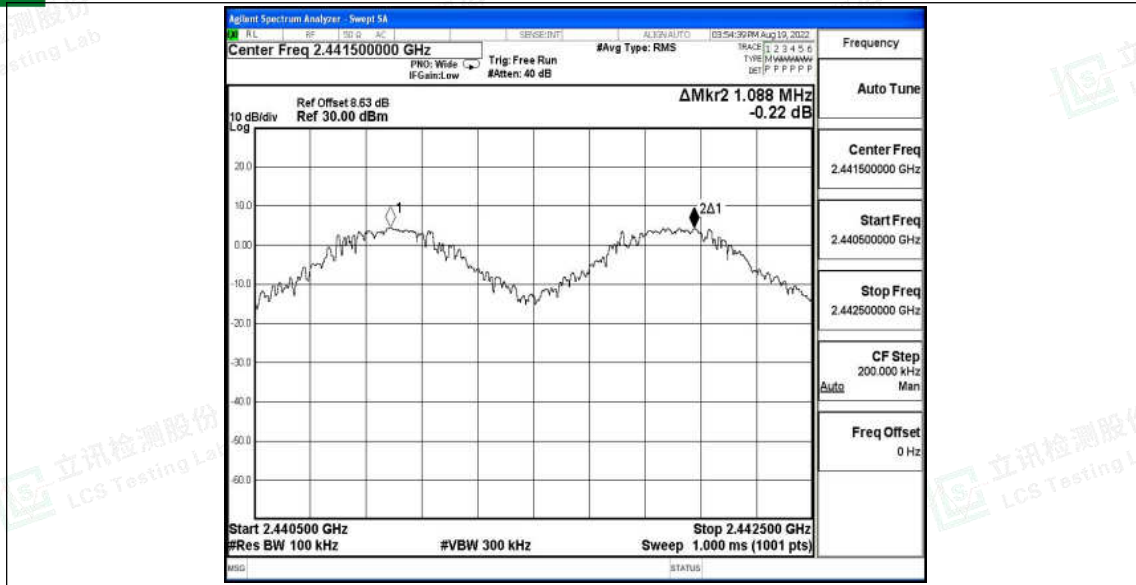
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.962	≥ 0.957	PASS
2DH5	Ant1	Hop	0.99	≥ 0.904	PASS
3DH5	Ant1	Hop	1.088	≥ 1.011	PASS





Test Graphs







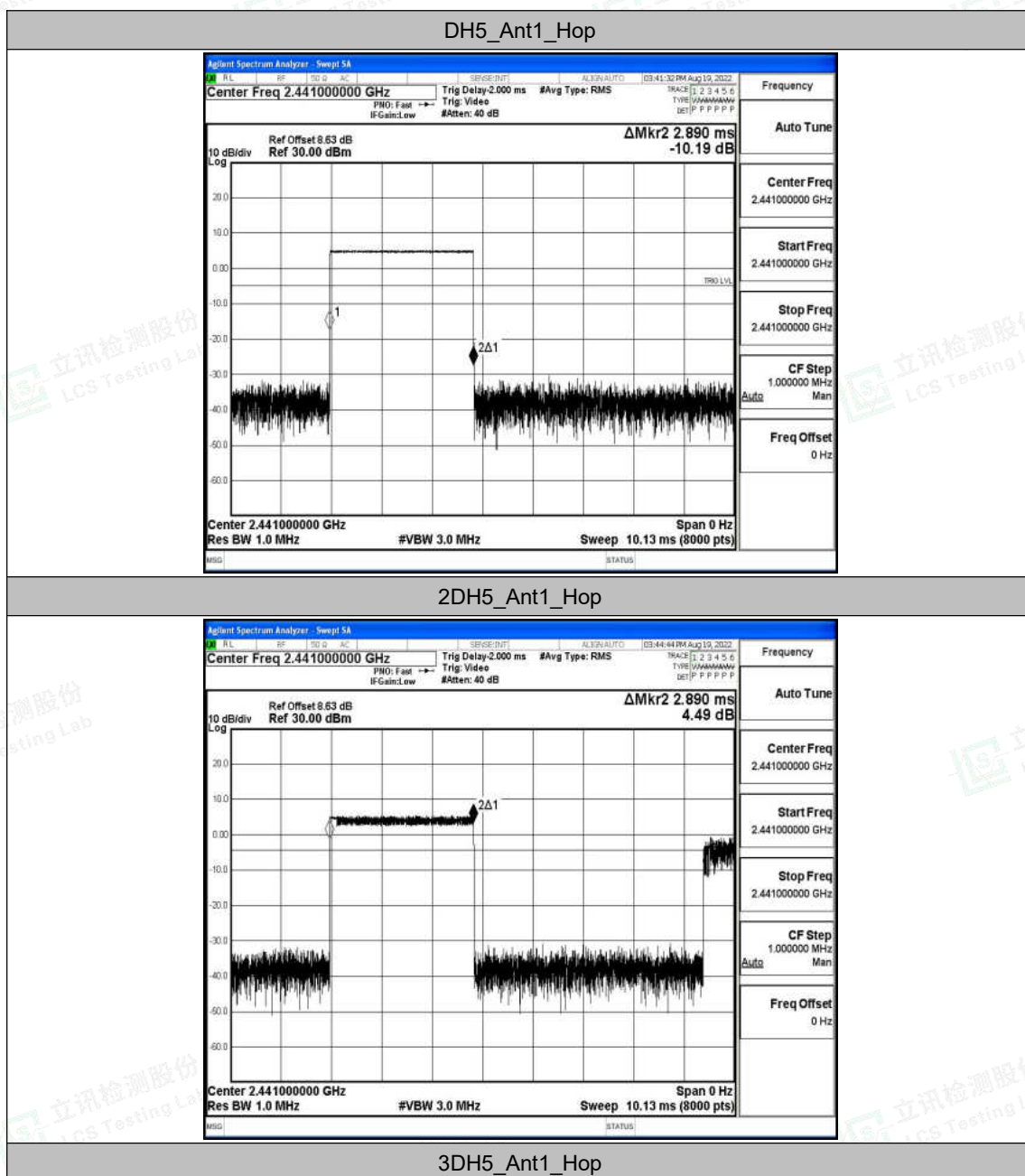
A.4 Time of occupancy

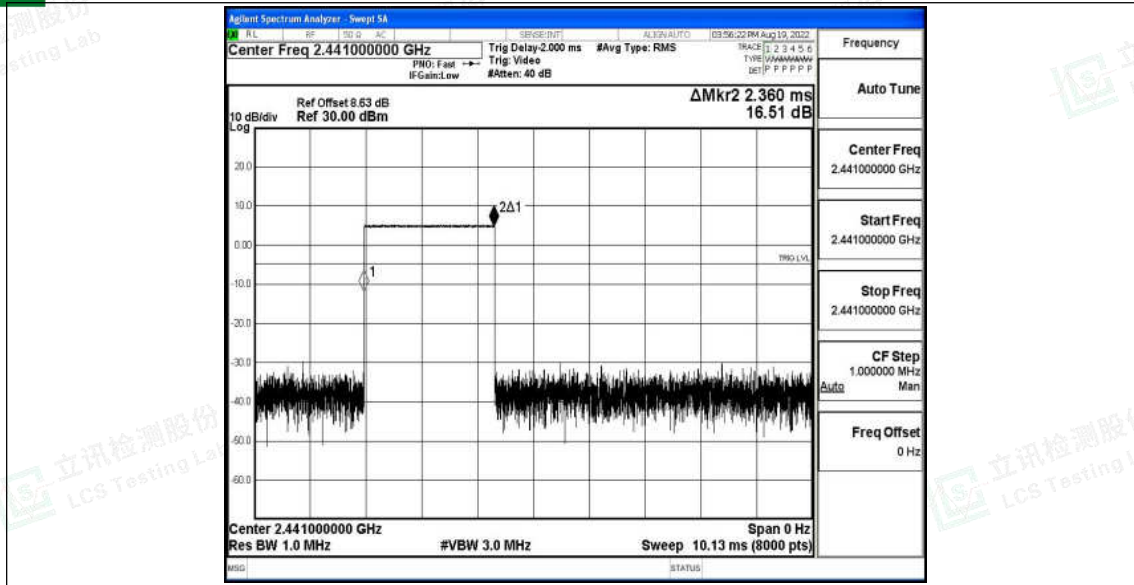
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS
2DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.36	106.67	0.252	≤0.4	PASS



Test Graphs







A.5 Number of hopping channels

Test Result

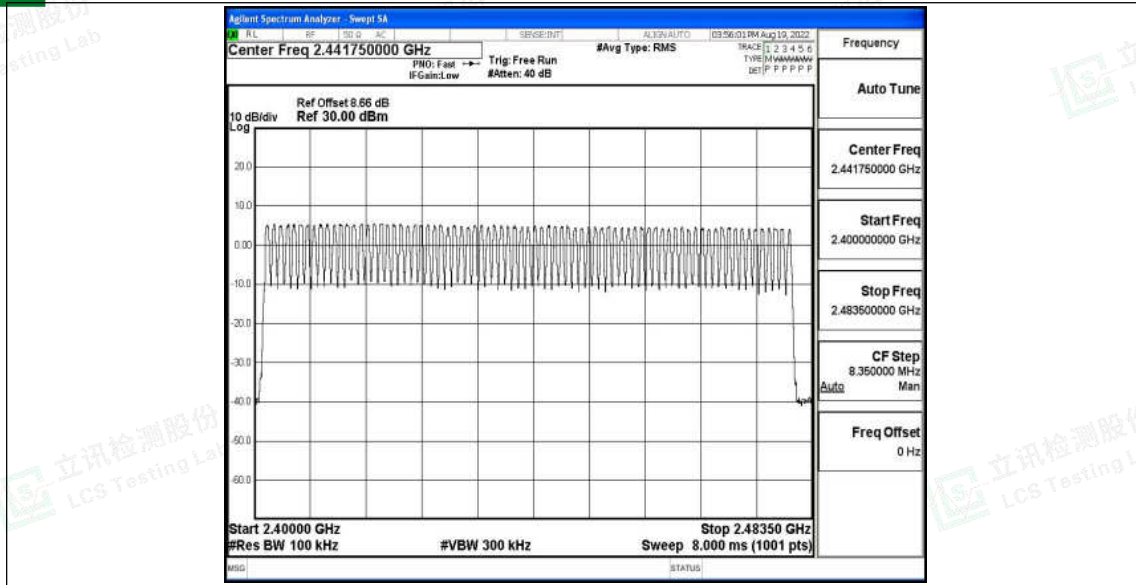
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS





Test Graphs







A.6 Band edge measurements

Test Result

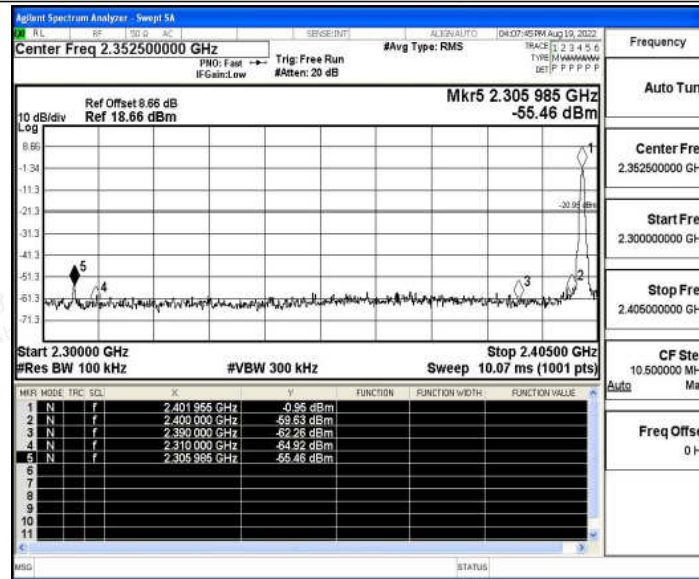
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.95	-55.46	≤-20.95	PASS
		High	2480	-2.18	-57.2	≤-22.18	PASS
		Low	Hop_2402	4.64	-49.6	≤-15.36	PASS
		High	Hop_2480	4.02	-49.94	≤-15.98	PASS
2DH5	Ant1	Low	2402	4.94	-53.92	≤-15.06	PASS
		High	2480	3.09	-56.03	≤-16.91	PASS
		Low	Hop_2402	4.54	-50.69	≤-15.46	PASS
		High	Hop_2480	2.43	-50.92	≤-17.57	PASS
3DH5	Ant1	Low	2402	4.82	-51.66	≤-15.18	PASS
		High	2480	3.68	-55.68	≤-16.32	PASS
		Low	Hop_2402	4.59	-49.74	≤-15.41	PASS
		High	Hop_2480	4.42	-50.6	≤-15.58	PASS



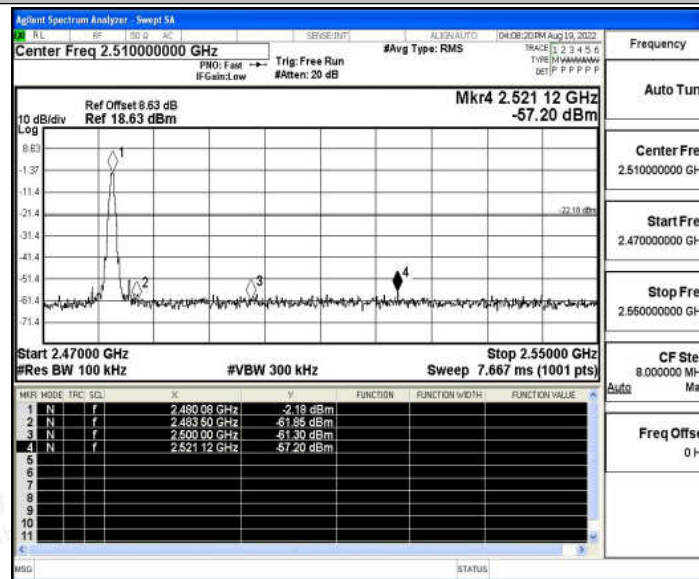


Test Graphs

DH5_Ant1_Low_2402

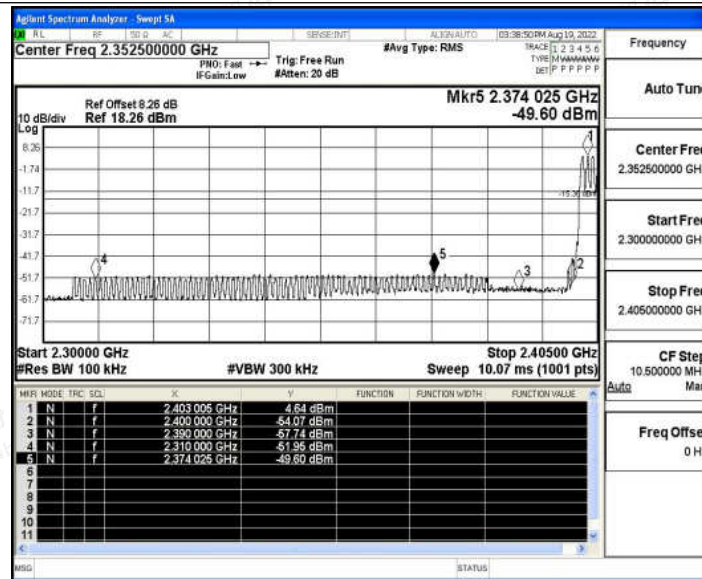


DH5_Ant1_High_2480

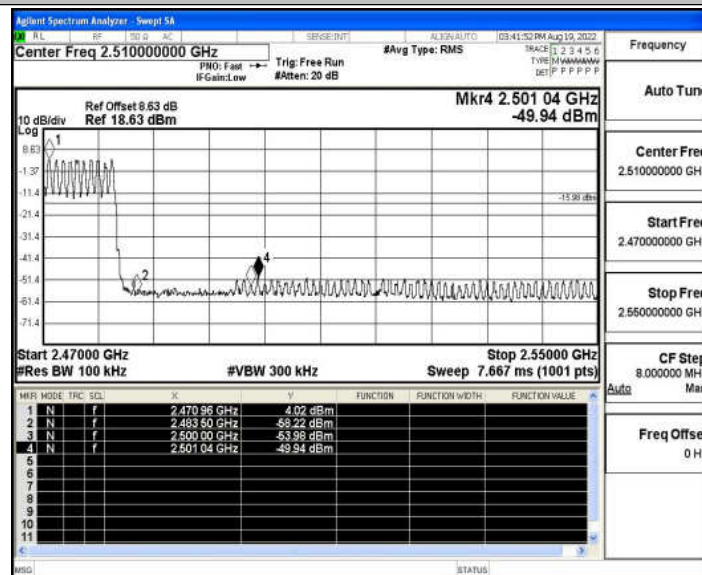


DH5_Ant1_Low_Hop_2402



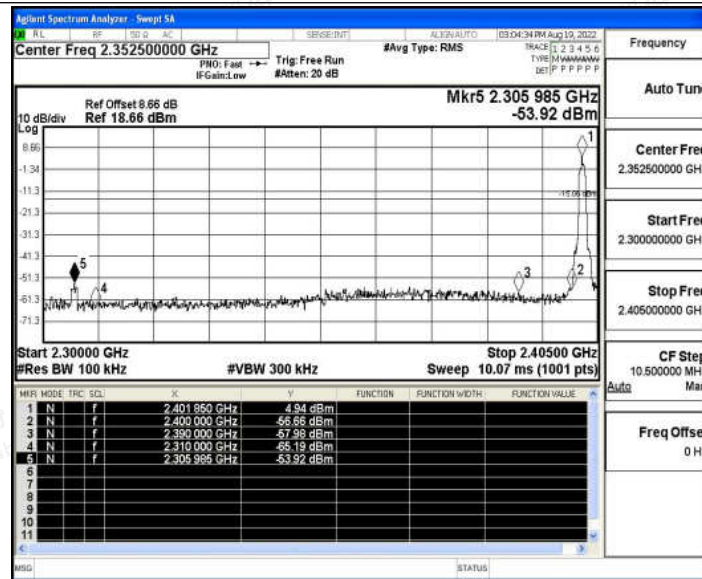


DH5_Ant1_High_Hop_2480

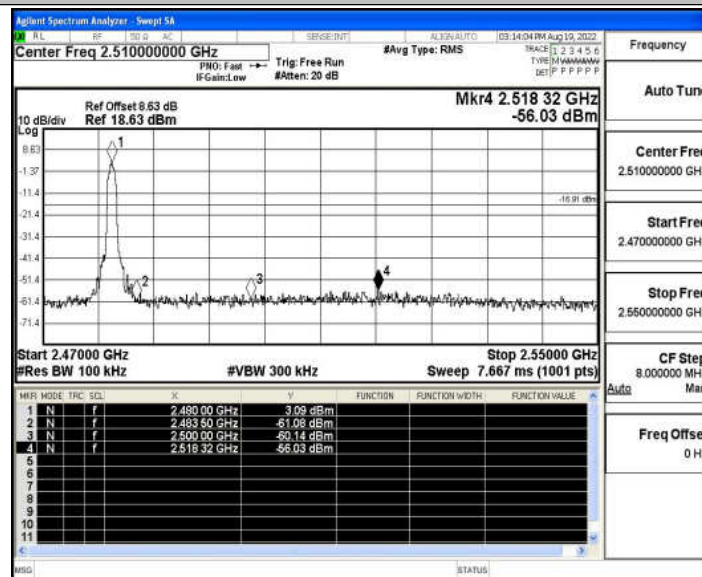


2DH5_Ant1_Low_2402



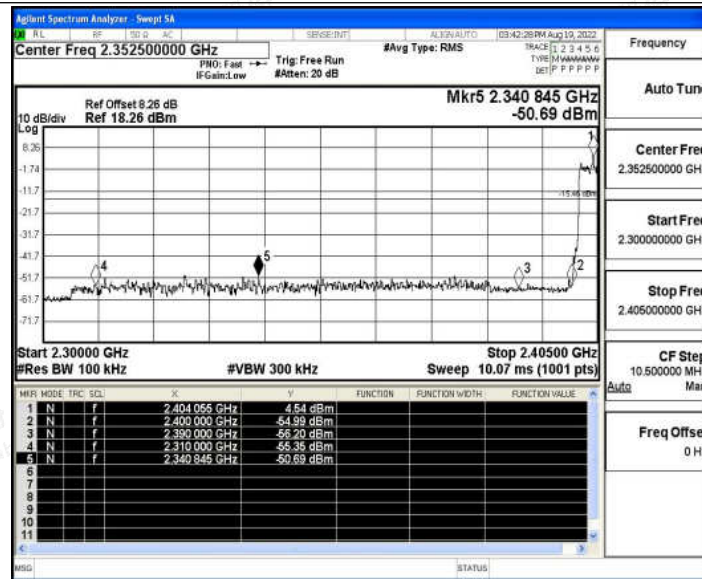


2DH5_Ant1_High_2480

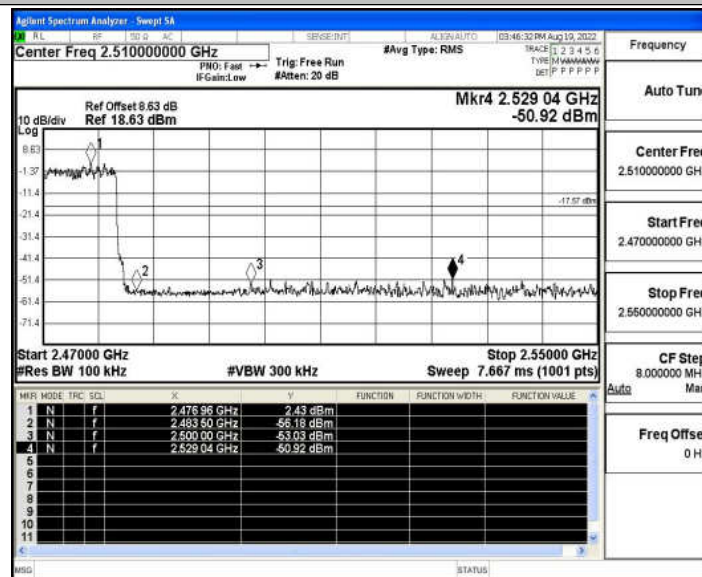


2DH5_Ant1_Low_Hop_2402



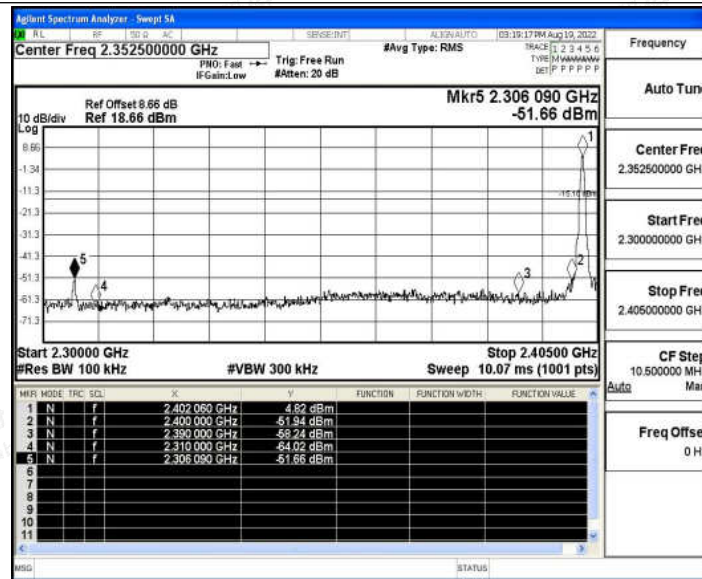


2DH5_Ant1_High_Hop_2480

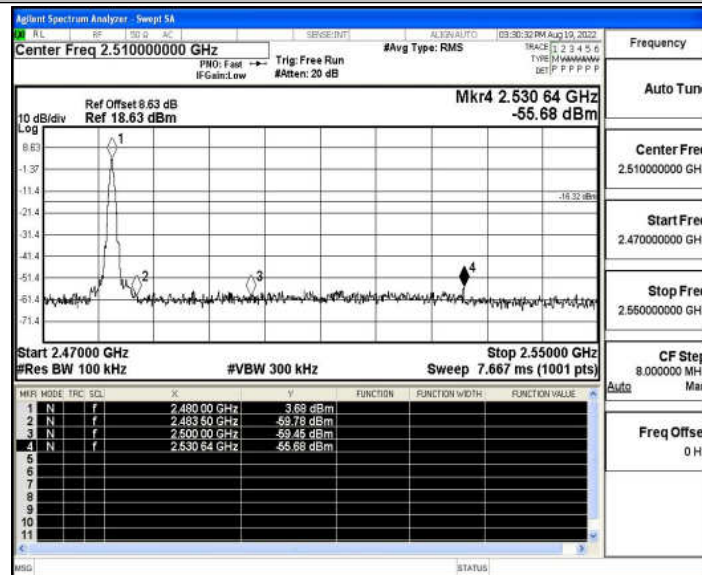


3DH5_Ant1_Low_2402



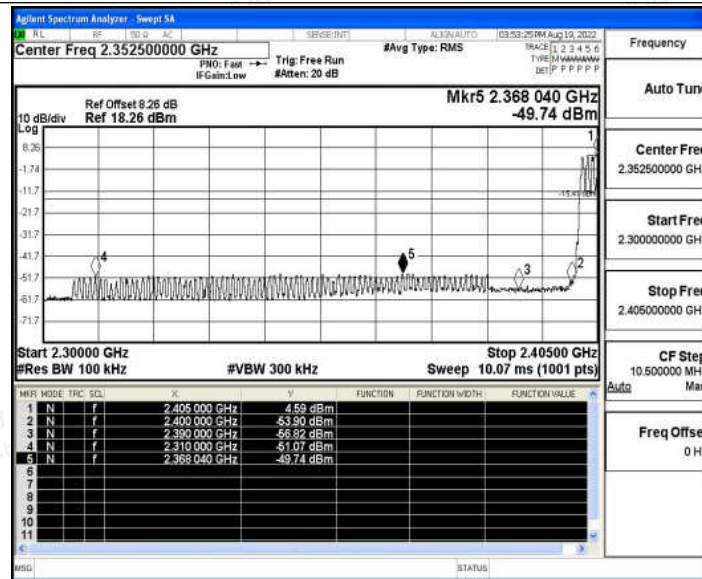


3DH5_Ant1_High_2480

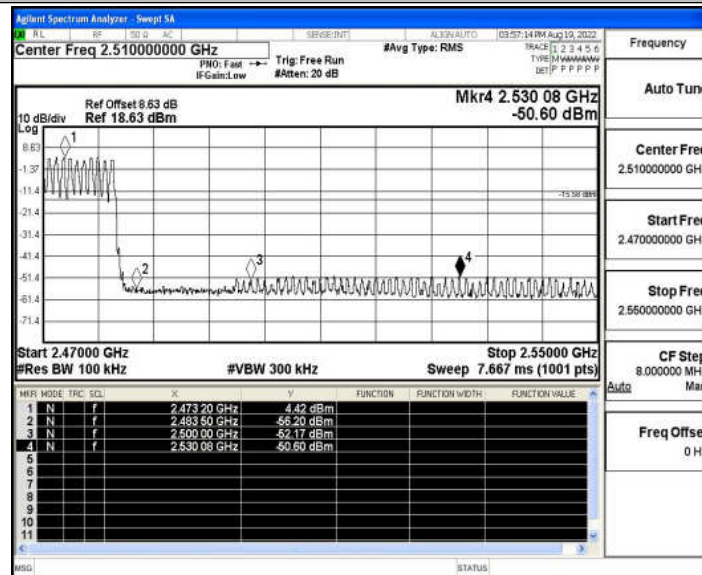


3DH5_Ant1_Low_Hop_2402





3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

Test Result

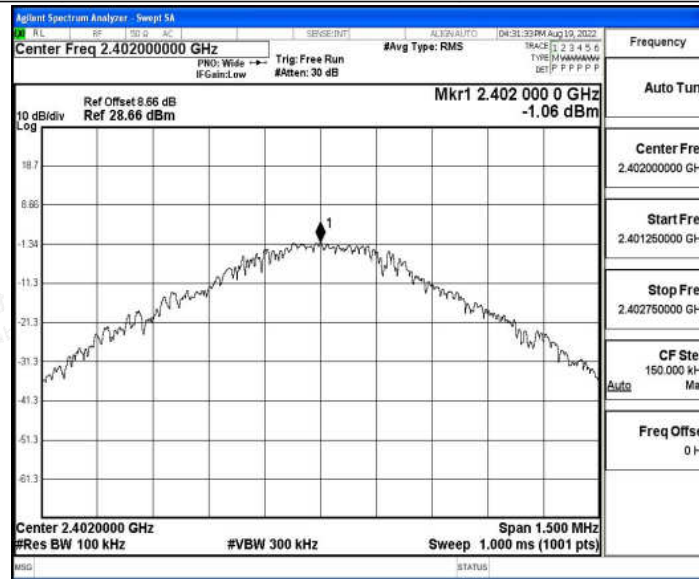
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-60.81	≤-21.06	PASS
			1000~26500	-1.06	-44.83	≤-21.06	PASS
		2441	Reference	4.14	4.14	---	PASS
			30~1000	4.14	-59.76	≤-15.86	PASS
			1000~26500	4.14	-40.79	≤-15.86	PASS
		2480	Reference	3.31	3.31	---	PASS
			30~1000	3.31	-60.87	≤-16.69	PASS
			1000~26500	3.31	-39.07	≤-16.69	PASS
2DH5	Ant1	2402	Reference	0.81	0.81	---	PASS
			30~1000	0.81	-59.53	≤-19.19	PASS
			1000~26500	0.81	-42.65	≤-19.19	PASS
		2441	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-60.4	≤-19.02	PASS
			1000~26500	0.98	-42.4	≤-19.02	PASS
		2480	Reference	0.55	0.55	---	PASS
			30~1000	0.55	-60.58	≤-19.45	PASS
			1000~26500	0.55	-38.87	≤-19.45	PASS
3DH5	Ant1	2402	Reference	4.68	4.68	---	PASS
			30~1000	4.68	-59.77	≤-15.32	PASS
			1000~26500	4.68	-41.13	≤-15.32	PASS
		2441	Reference	3.87	3.87	---	PASS
			30~1000	3.87	-60.68	≤-16.13	PASS
			1000~26500	3.87	-40.74	≤-16.13	PASS
		2480	Reference	3.80	3.80	---	PASS
			30~1000	3.80	-55.78	≤-16.2	PASS
			1000~26500	3.80	-38.41	≤-16.2	PASS



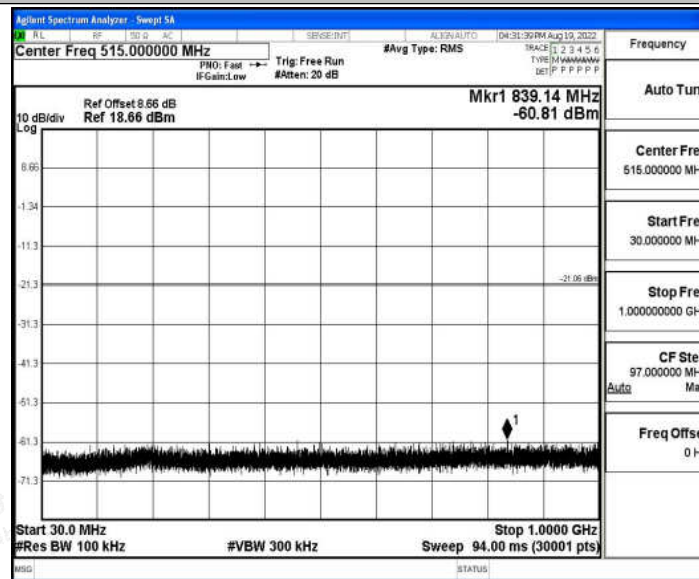


Test Graphs

DH5_Ant1_2402_0~Reference

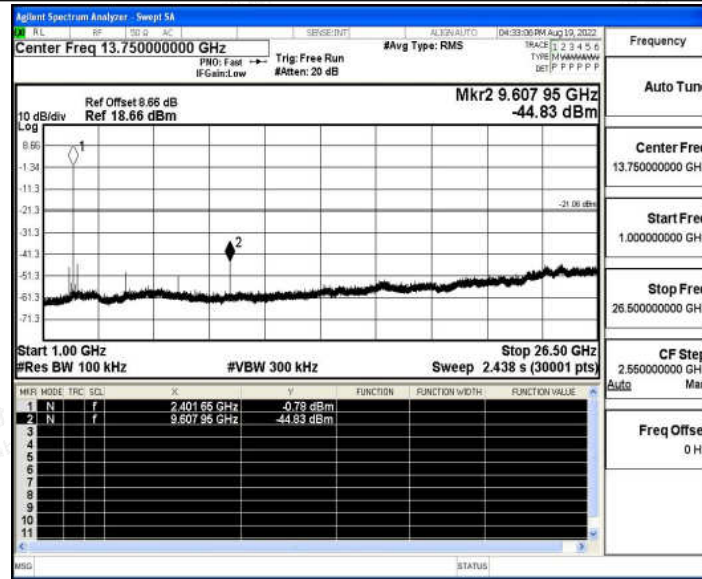


DH5_Ant1_2402_30~1000

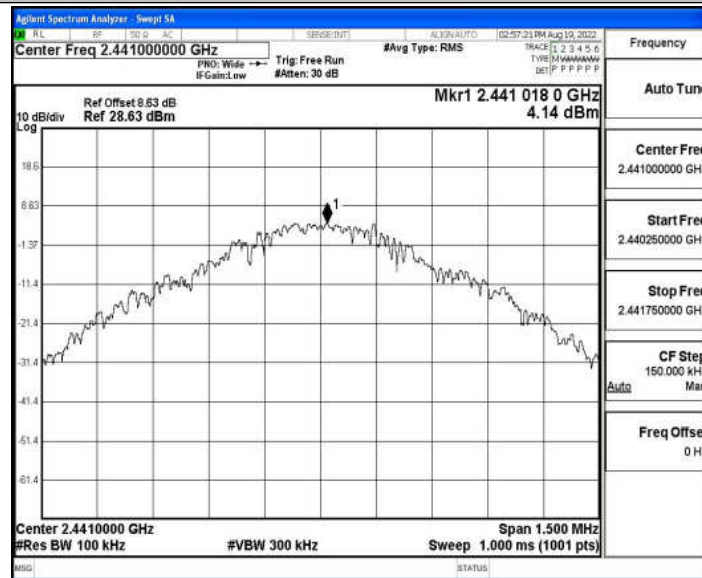


DH5_Ant1_2402_1000~26500



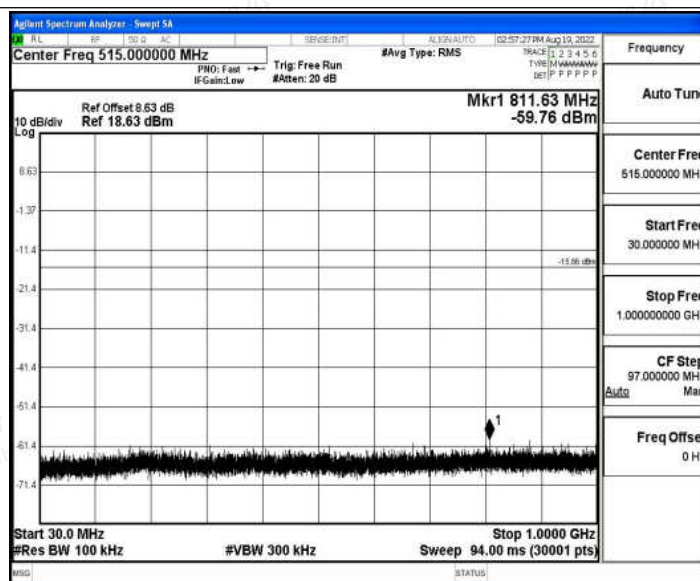


DH5_Ant1_2441_0~Reference

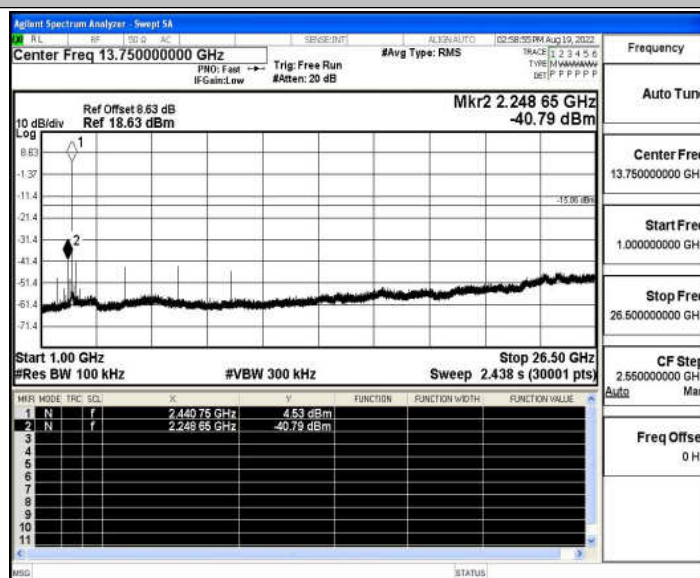


DH5_Ant1_2441_30~1000



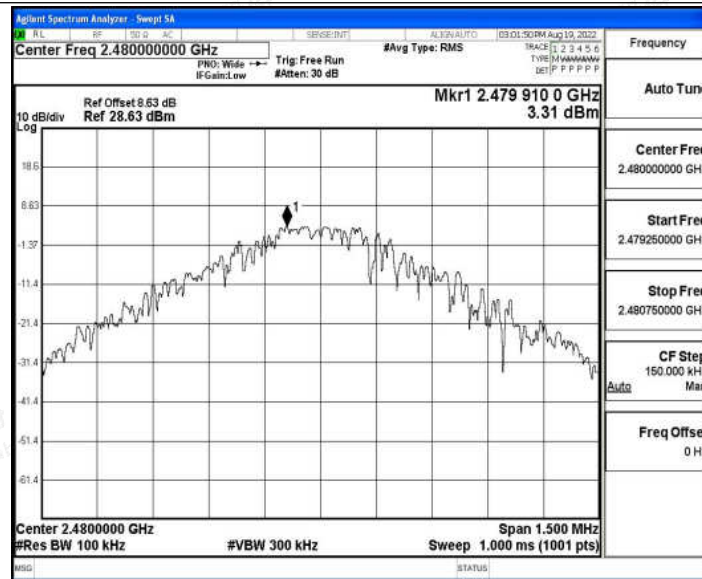


DH5 Ant1 2441 1000~26500

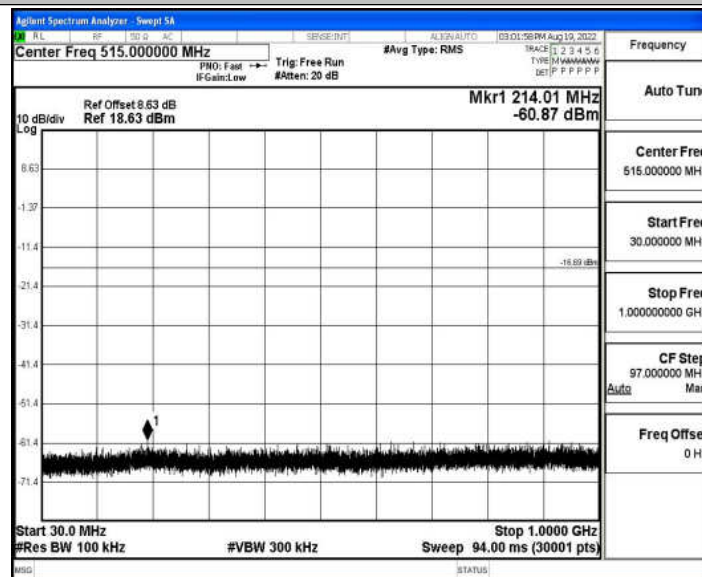


DH5 Ant1 2480 0~Reference



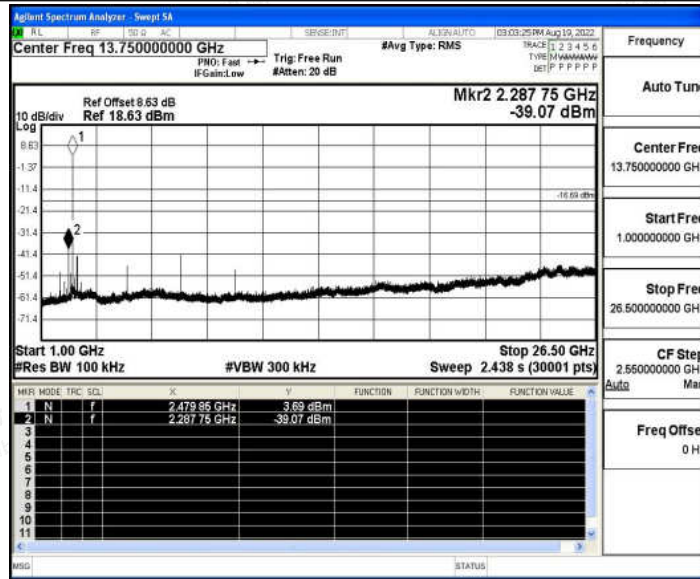


DH5_Ant1_2480_30~1000

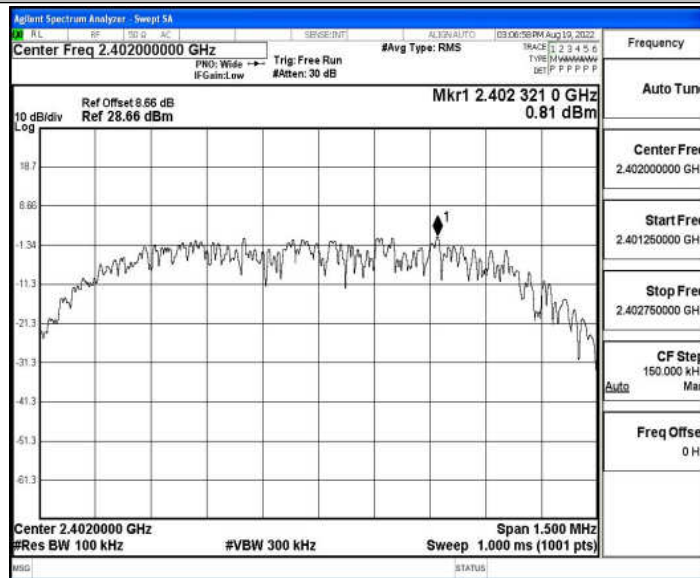


DH5_Ant1_2480_1000~26500



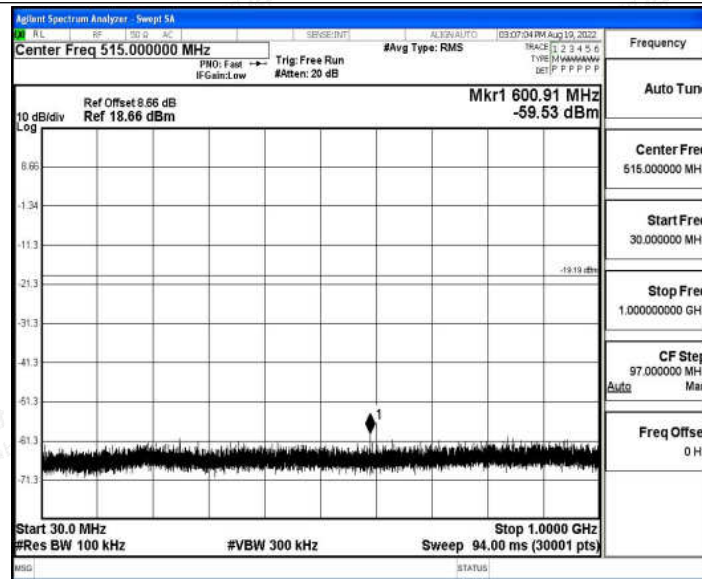


2DH5_Ant1_2402_0~Reference

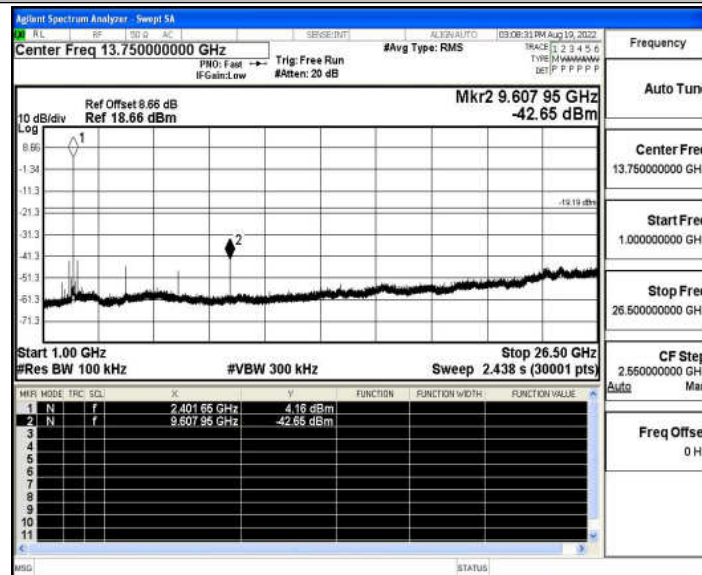


2DH5_Ant1_2402_30~1000



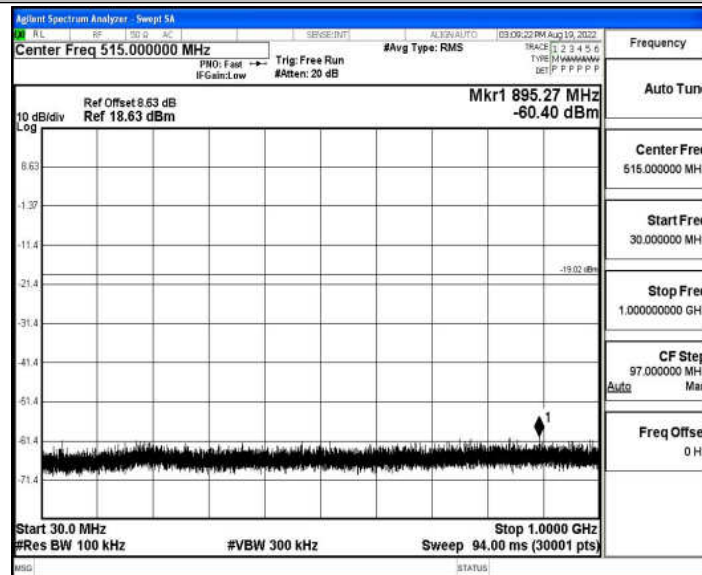
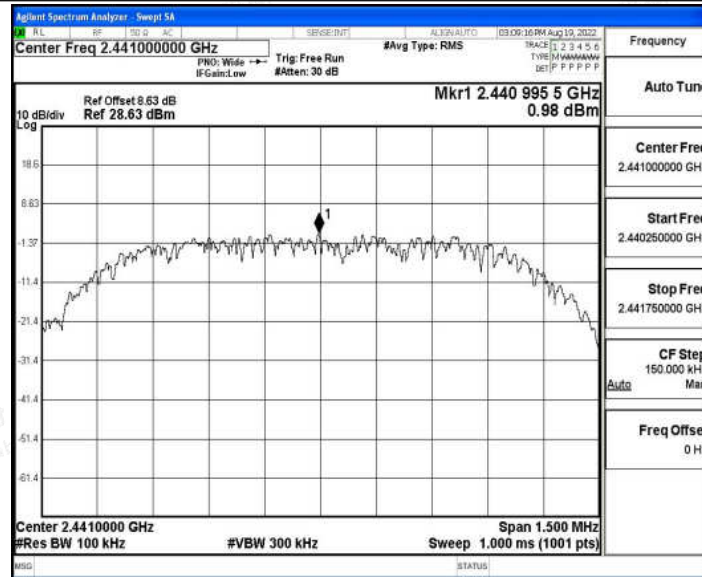


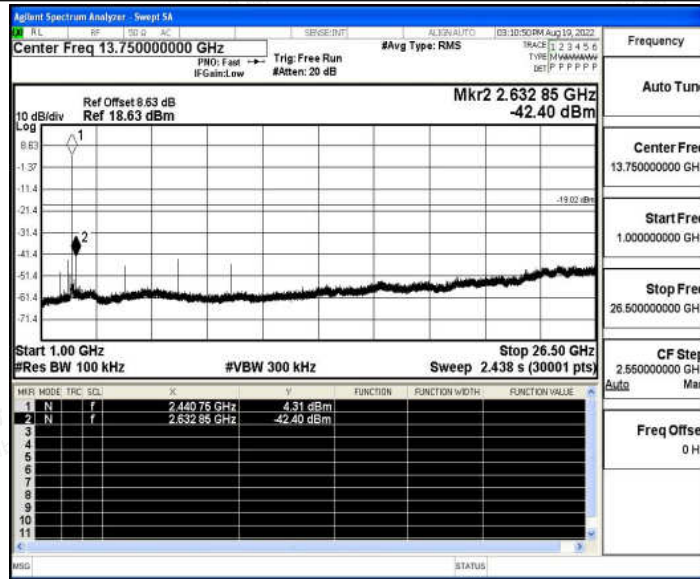
2DH5_Ant1_2402_1000~26500



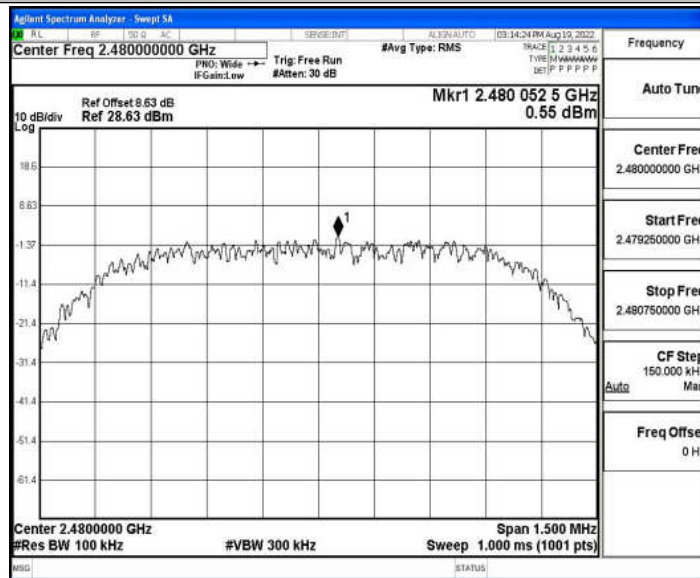
2DH5_Ant1_2441_0~Reference





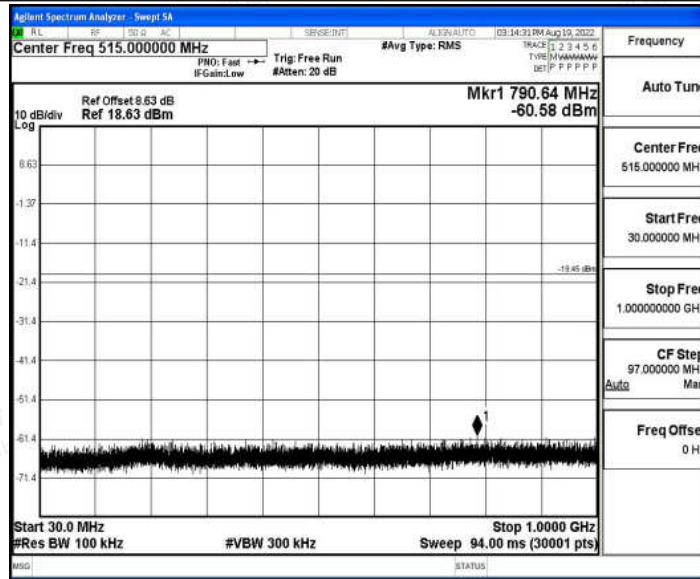


2DH5_Ant1_2480_0~Reference

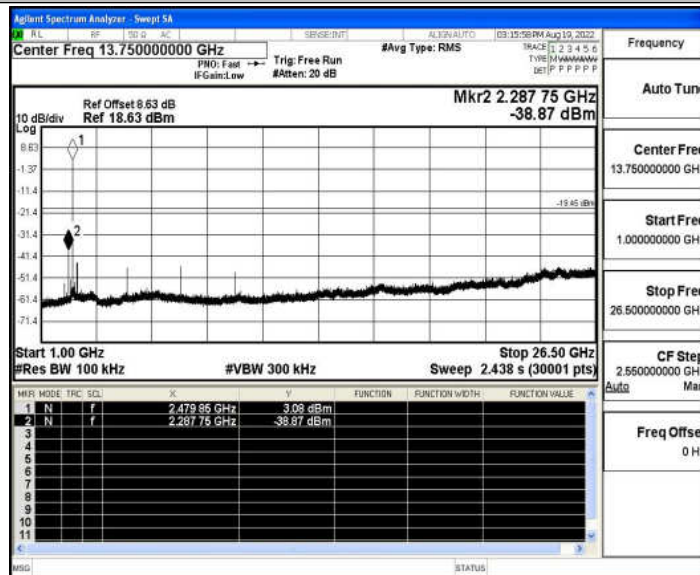


2DH5_Ant1_2480_30~1000



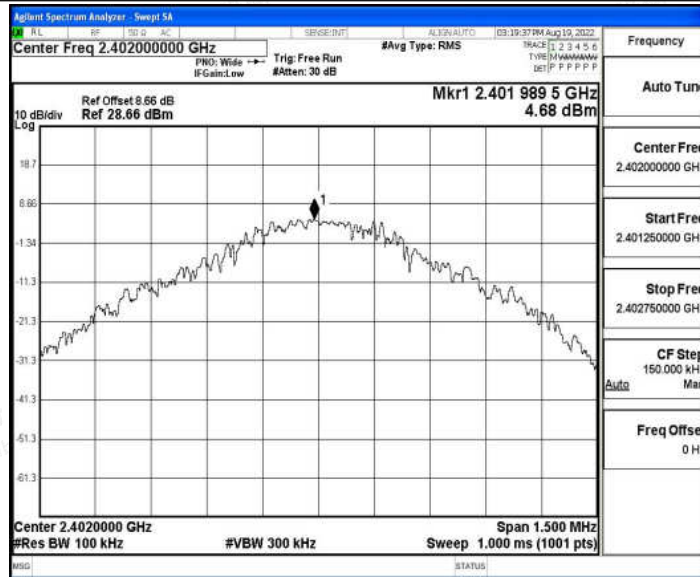


2DH5_Ant1_2480_1000~26500

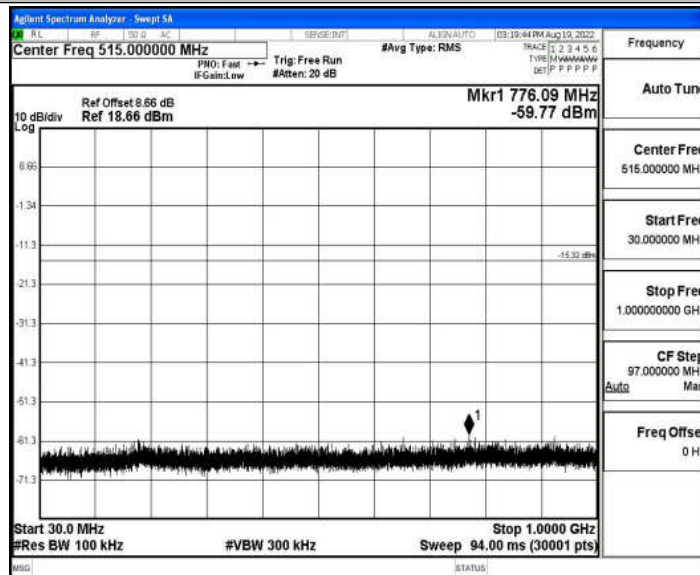


3DH5_Ant1_2402_0~Reference



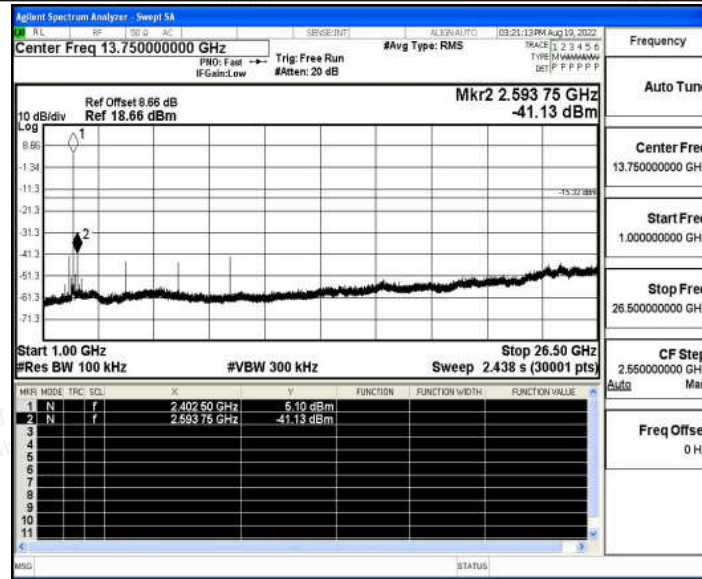


3DH5_Ant1_2402_30~1000

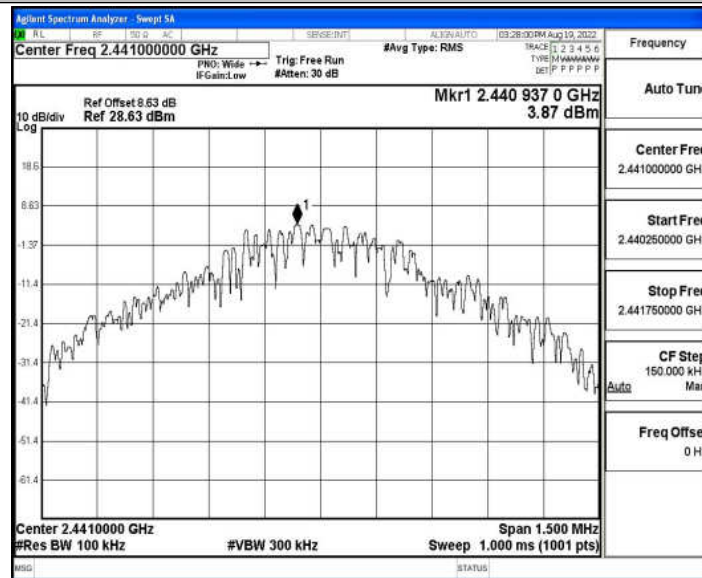


3DH5_Ant1_2402_1000~26500



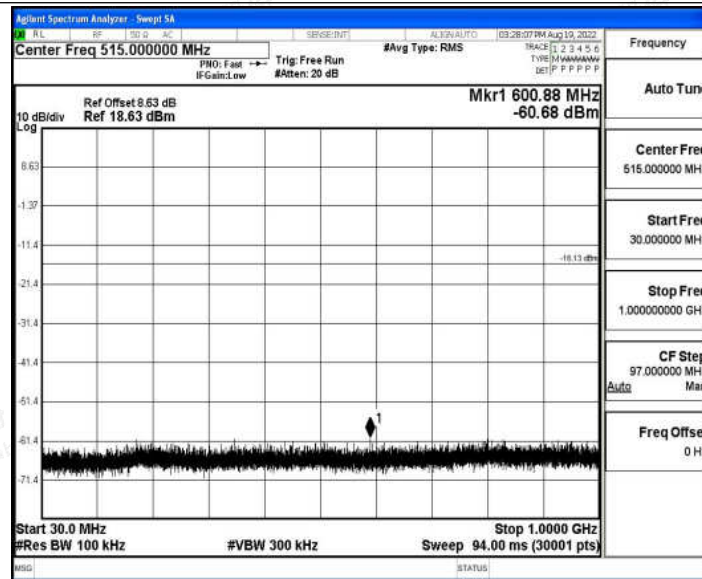


3DH5_Ant1_2441_0~Reference

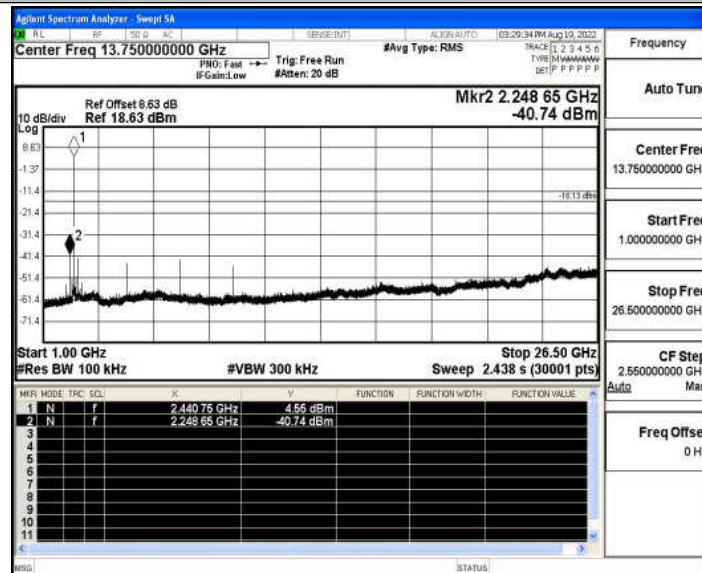


3DH5_Ant1_2441_30~1000



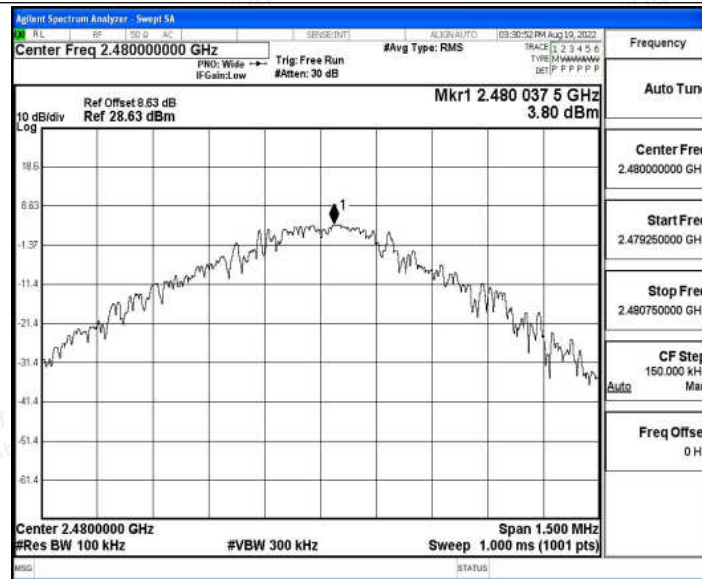


3DH5_Ant1_2441_1000~26500

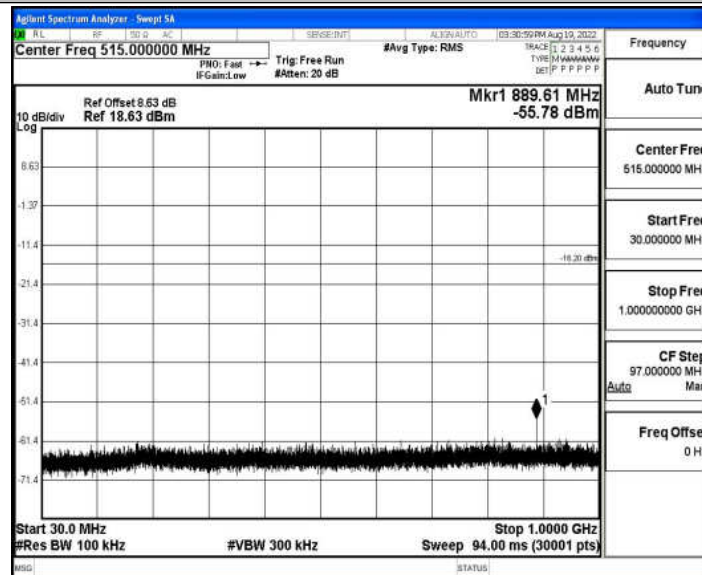


3DH5_Ant1_2480_0~Reference



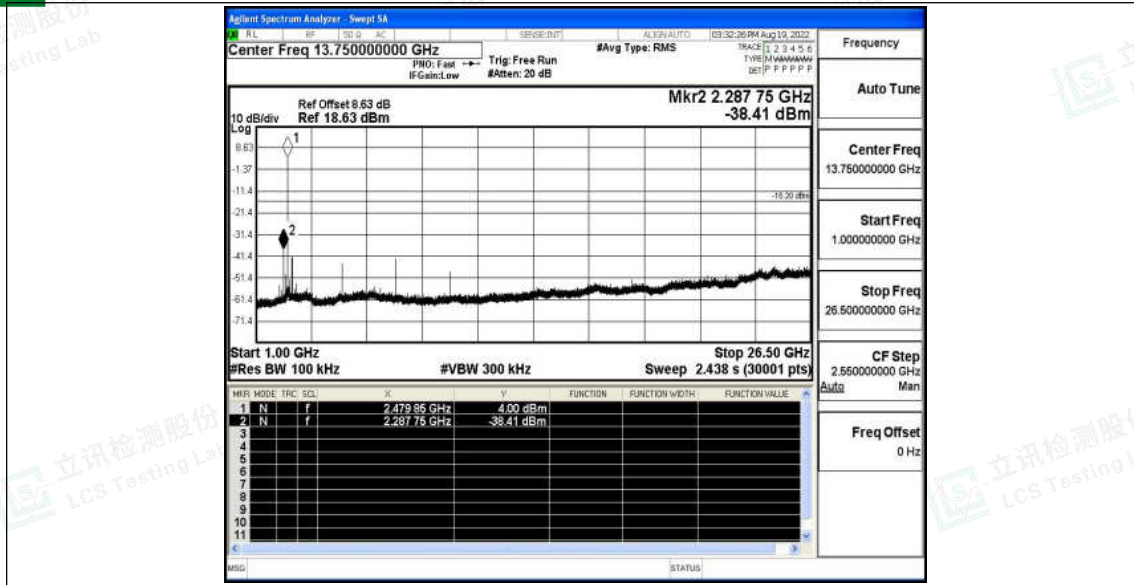


3DH5_Ant1_2480_30~1000



3DH5_Ant1_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	Ant1	Low	2402	AV	2310.000	-58.23	≤-41.20	36.97	≤54	PASS
				AV	2369.825	-56.33	≤-41.20	38.87	≤54	PASS
				AV	2390.000	-57.03	≤-41.20	38.17	≤54	PASS
				Peak	2310.000	-53.33	≤-21.20	41.87	≤74	PASS
				Peak	2378.960	-45.91	≤-21.20	49.29	≤74	PASS
				Peak	2390.000	-48.67	≤-21.20	46.53	≤74	PASS
		High	2480	AV	2483.500	-51.88	≤-41.20	43.32	≤54	PASS
				AV	2483.520	-51.88	≤-41.20	43.32	≤54	PASS
				AV	2500.000	-54.81	≤-41.20	40.39	≤54	PASS
				Peak	2483.500	-45.53	≤-21.20	49.67	≤74	PASS
				Peak	2483.520	-45.53	≤-21.20	49.67	≤74	PASS
				Peak	2500.000	-49.38	≤-21.20	45.82	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.09	≤-41.20	37.11	≤54	PASS
				AV	2362.475	-53.44	≤-41.20	41.76	≤54	PASS
				AV	2390.000	-55.3	≤-41.20	39.90	≤54	PASS
				Peak	2310.000	-53.38	≤-21.20	41.82	≤74	PASS
				Peak	2366.780	-43.43	≤-21.20	51.77	≤74	PASS
				Peak	2390.000	-49.52	≤-21.20	45.68	≤74	PASS
		High	2480	AV	2483.500	-50.7	≤-41.20	44.50	≤54	PASS
				AV	2483.520	-50.7	≤-41.20	44.50	≤54	PASS
				AV	2500.000	-54.28	≤-41.20	40.92	≤54	PASS
				Peak	2483.500	-46.58	≤-21.20	48.62	≤74	PASS
				Peak	2494.320	-46.36	≤-21.20	48.84	≤74	PASS
				Peak	2500.000	-48.87	≤-21.20	46.33	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-57.59	≤-41.20	37.61	≤54	PASS
				AV	2367.620	-52.52	≤-41.20	42.68	≤54	PASS
				AV	2390.000	-54.41	≤-41.20	40.79	≤54	PASS
				Peak	2310.000	-52.83	≤-21.20	42.37	≤74	PASS
				Peak	2371.820	-44.03	≤-21.20	51.17	≤74	PASS
				Peak	2390.000	-48.09	≤-21.20	47.11	≤74	PASS
		High	2480	AV	2483.500	-50.84	≤-41.20	44.36	≤54	PASS
				AV	2483.520	-50.84	≤-41.20	44.36	≤54	PASS
				AV	2500.000	-54.05	≤-41.20	41.15	≤54	PASS
				Peak	2483.500	-50.12	≤-21.20	45.08	≤74	PASS





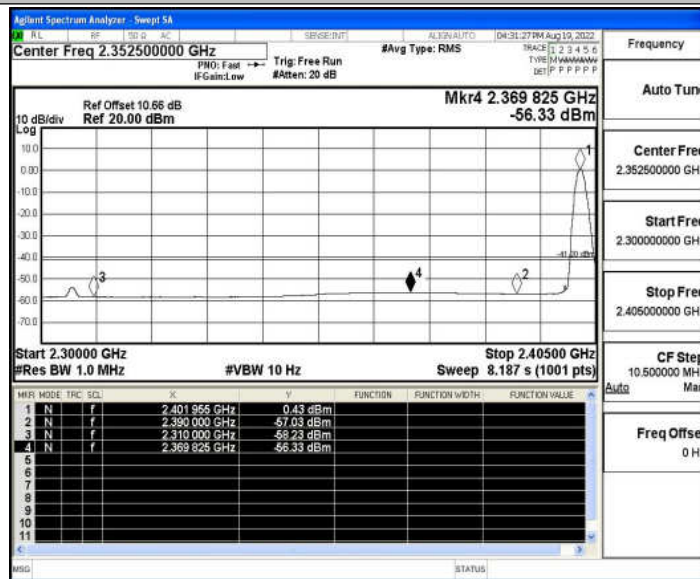
			Peak	2485.440	-45.97	≤-21.20	49.23	≤74	PASS
			Peak	2500.000	-47.57	≤-21.20	47.63	≤74	PASS

Note:

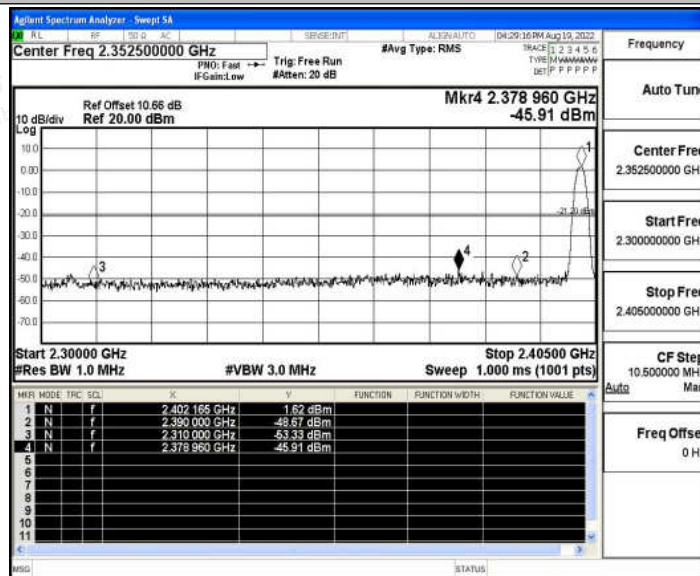
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

DH5_Ant1_Low_2402_AV



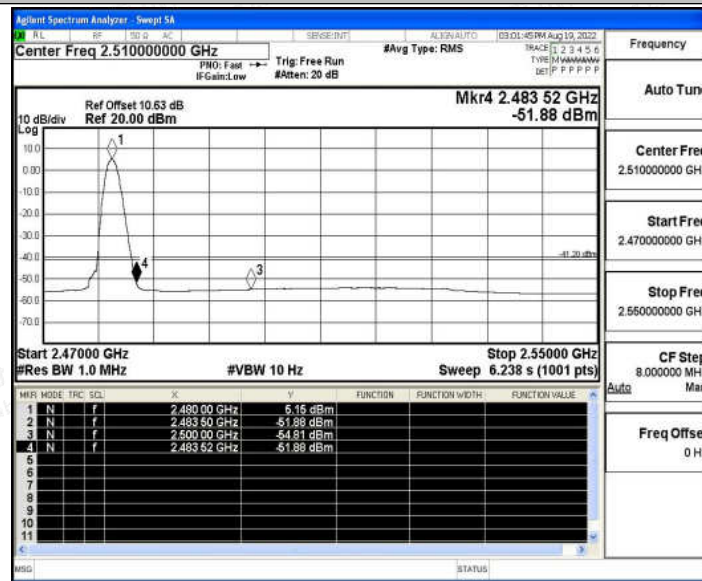
DH5_Ant1_Low_2402_Peak



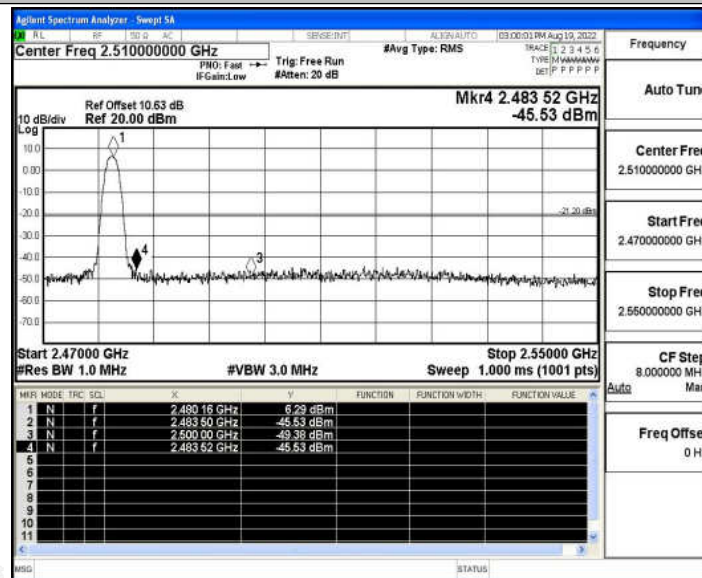
Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



DH5_Ant1_High_2480_AV

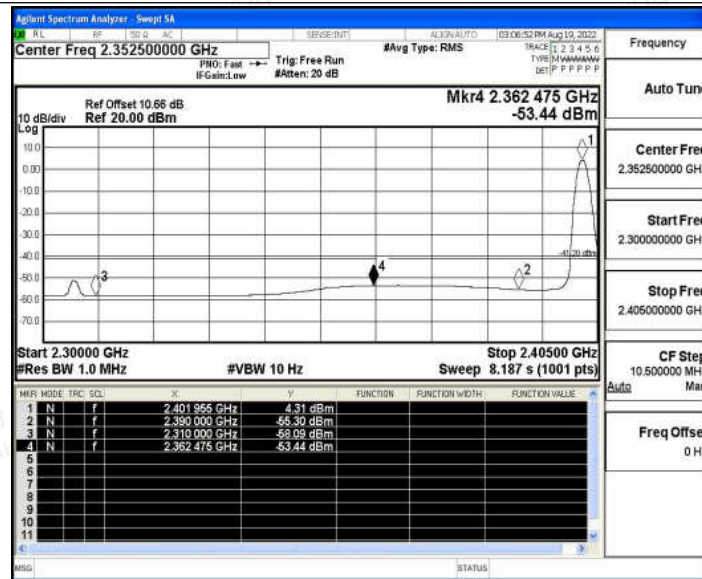


DH5_Ant1_High_2480_Peak

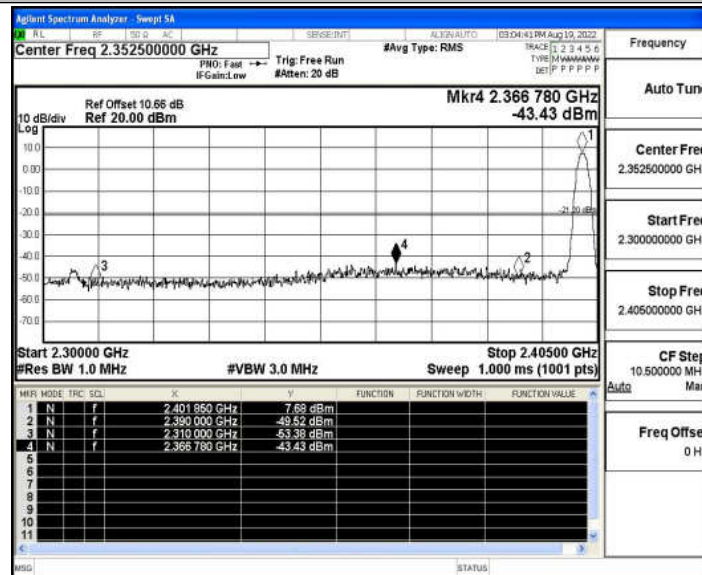


2DH5_Ant1_Low_2402_AV



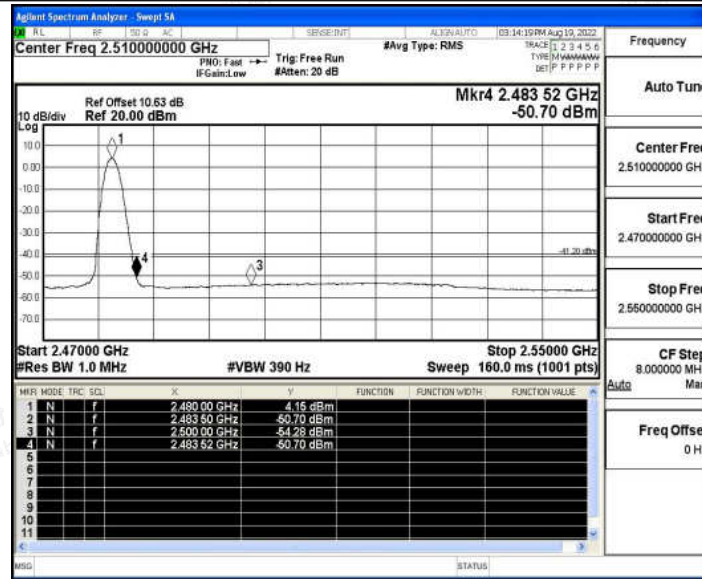


2DH5_Ant1_Low_2402_Peak

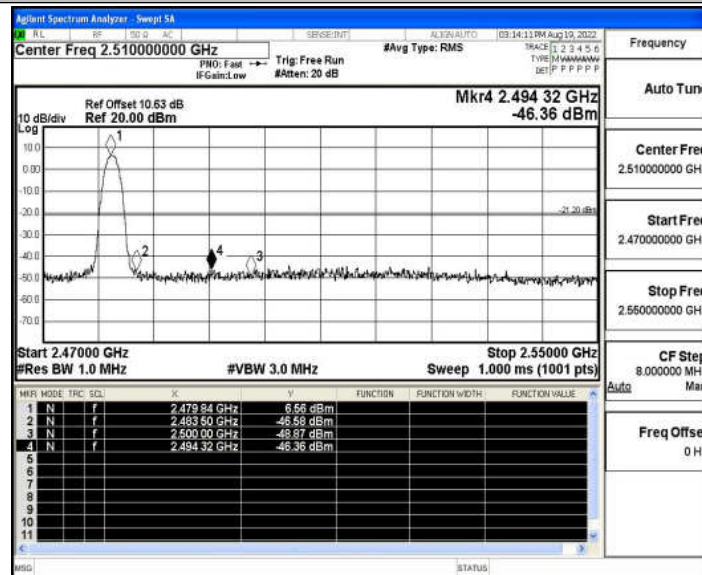


2DH5_Ant1_High_2480_AV



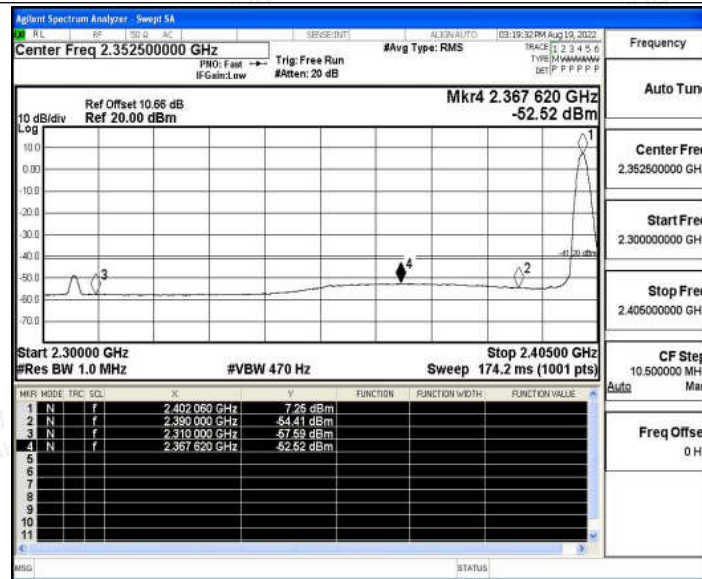


2DH5_Ant1_High_2480_Peak

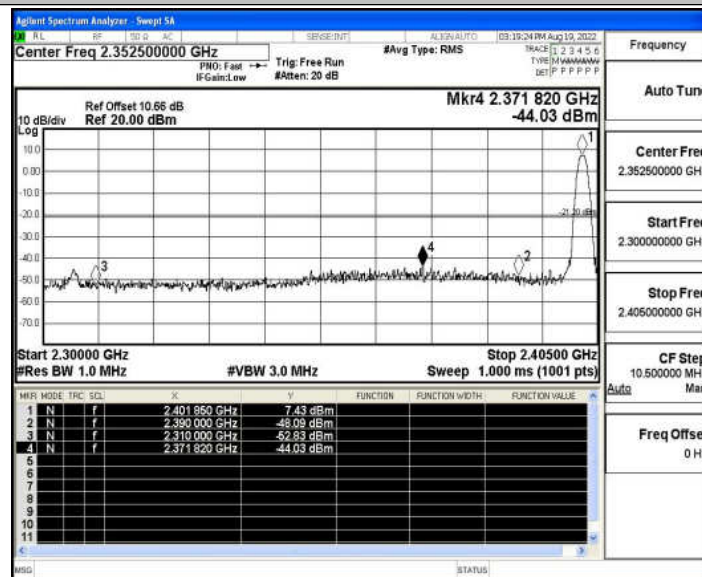


3DH5_Ant1_Low_2402_AV



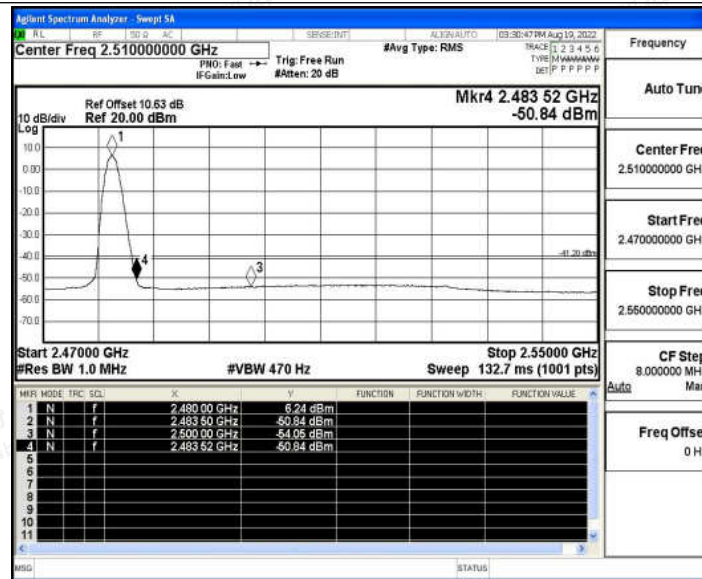


3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV





3DH5_Ant1_High_2480_Peak

