



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Heyday True Wireless Earbuds

Test Model: ET-6506

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>monkey.Li</i> Monkey Li
Supervised by:	<i>Libu</i> Li Huan





A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.038	2401.460	2402.498	---
		2441	1.035	2440.460	2441.495	---
		2480	1.044	2479.454	2480.498	---
2DH5	Ant1	2402	1.290	2401.355	2402.645	---
		2441	1.296	2440.352	2441.648	---
		2480	1.293	2479.355	2480.648	---
3DH5	Ant1	2402	1.290	2401.343	2402.633	---
		2441	1.290	2440.343	2441.633	---
		2480	1.293	2479.343	2480.636	---

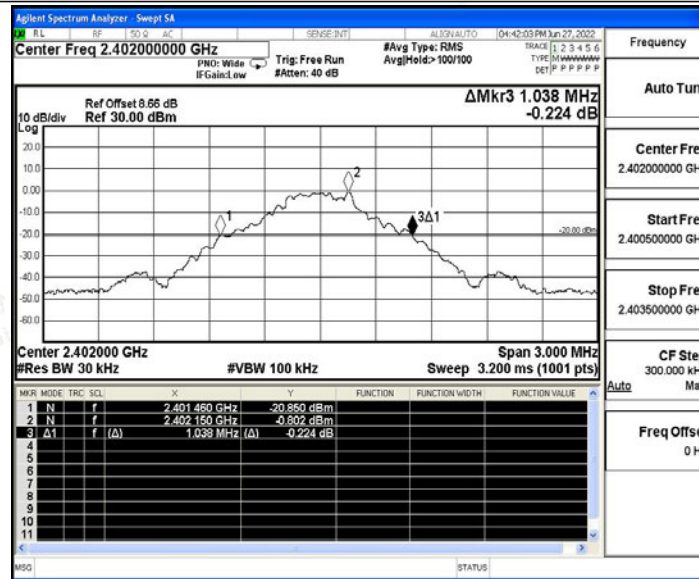


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

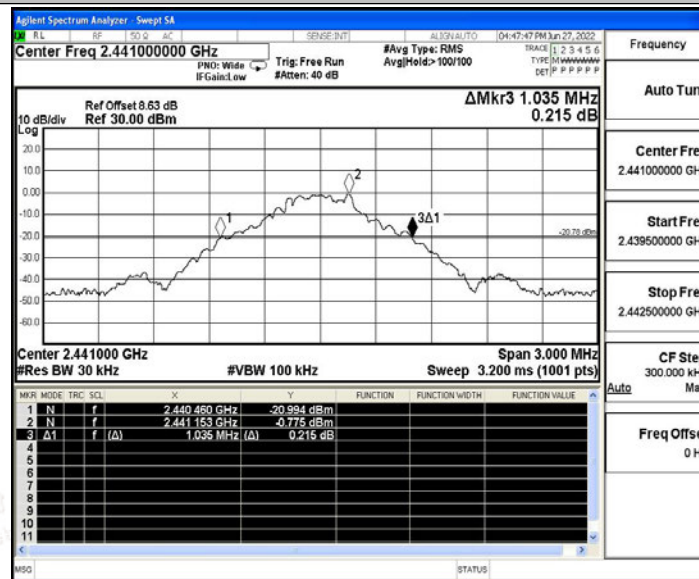


Test Graphs

DH5_Ant1_2402

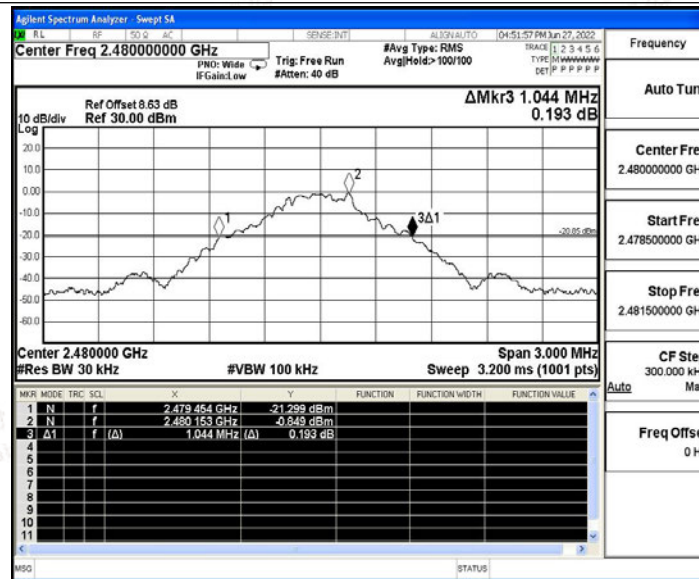


DH5_Ant1_2441

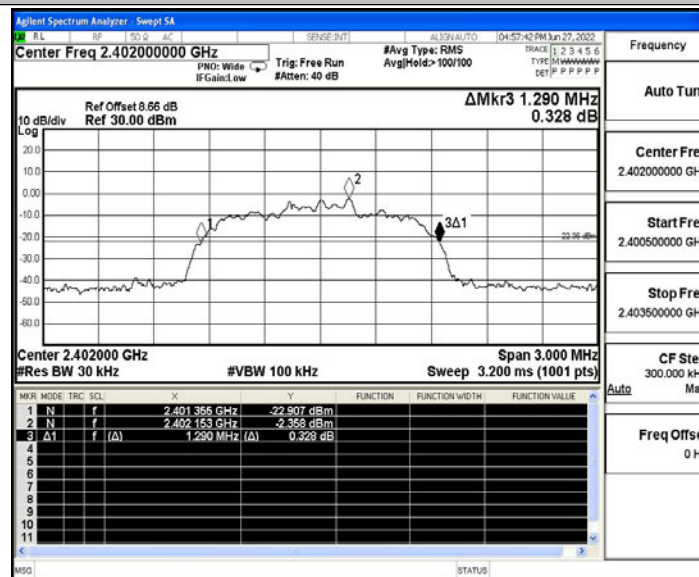


DH5_Ant1_2480



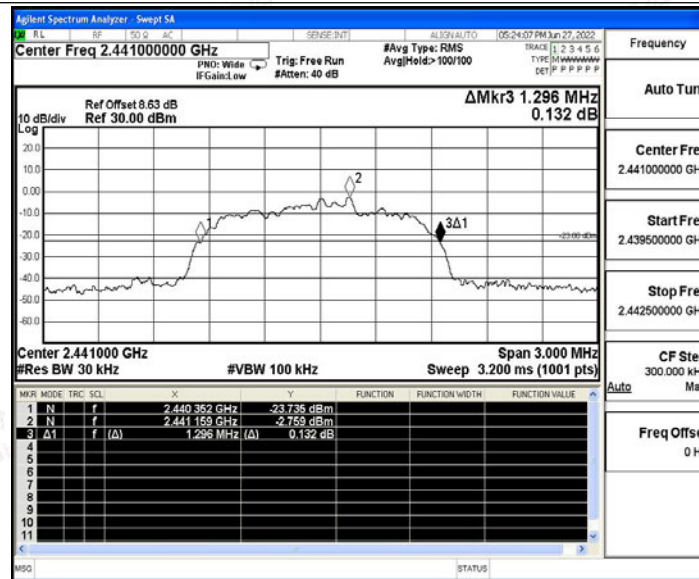


2DH5_Ant1_2402

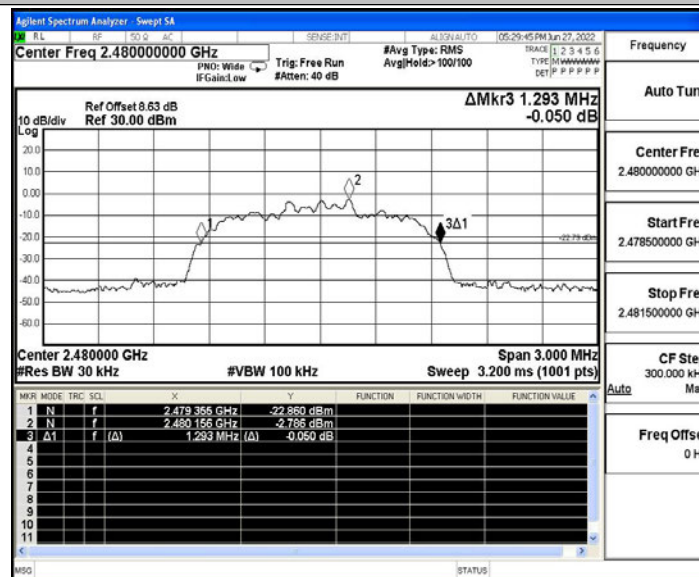


2DH5_Ant1_2441



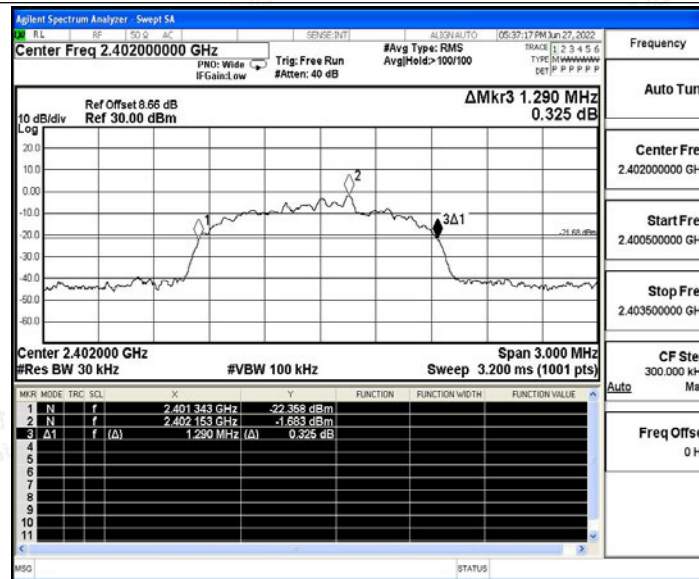


2DH5_Ant1_2480

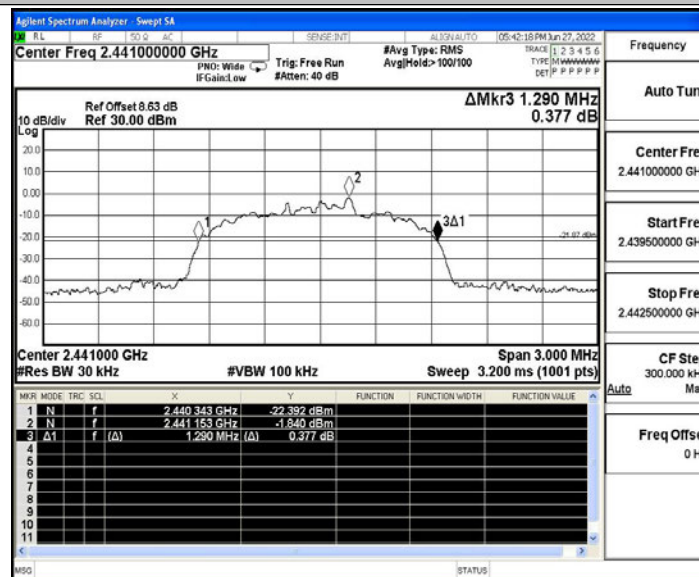


3DH5_Ant1_2402



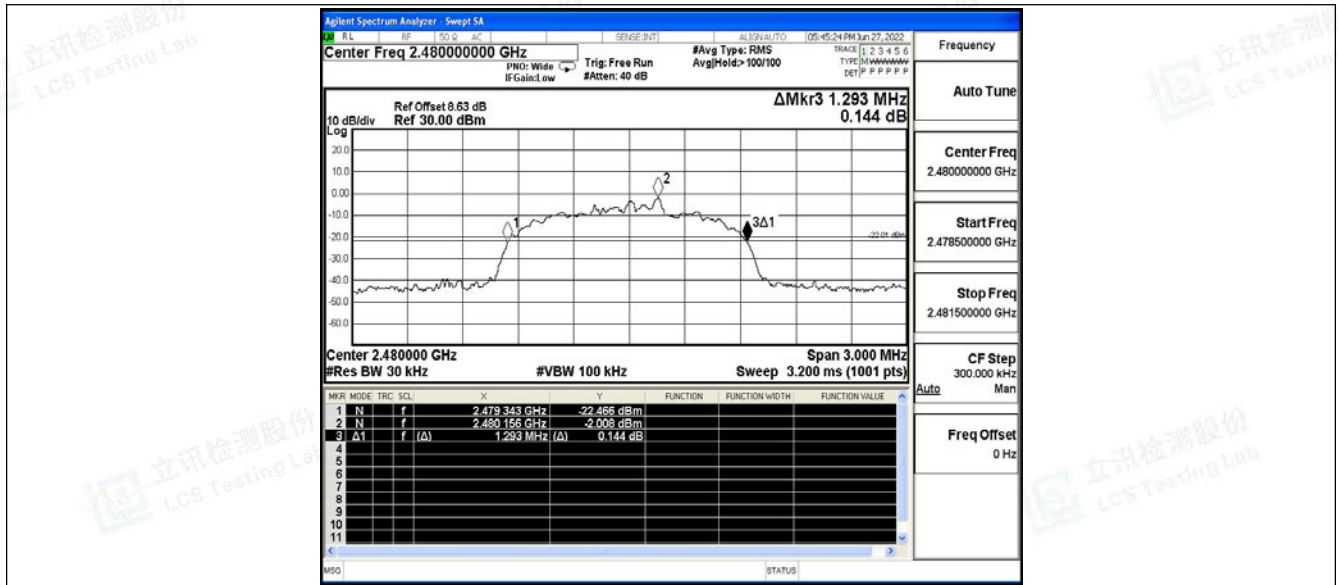


3DH5_Ant1_2441



3DH5_Ant1_2480







A.2 Maximum peak conducted output power

Test Result

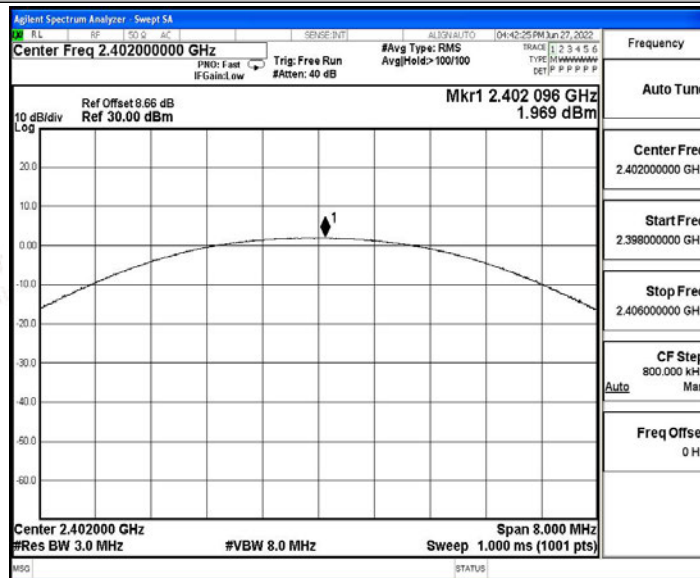
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.97	≤20.97	PASS
		2441	1.99	≤20.97	PASS
		2480	1.84	≤20.97	PASS
2DH5	Ant1	2402	1.62	≤20.97	PASS
		2441	1.53	≤20.97	PASS
		2480	1.49	≤20.97	PASS
3DH5	Ant1	2402	1.72	≤20.97	PASS
		2441	1.72	≤20.97	PASS
		2480	1.62	≤20.97	PASS



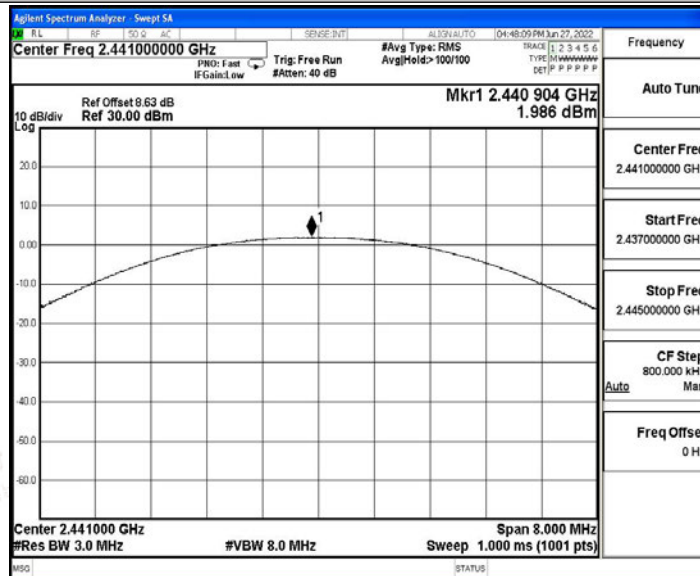


Test Graphs

DH5_Ant1_2402

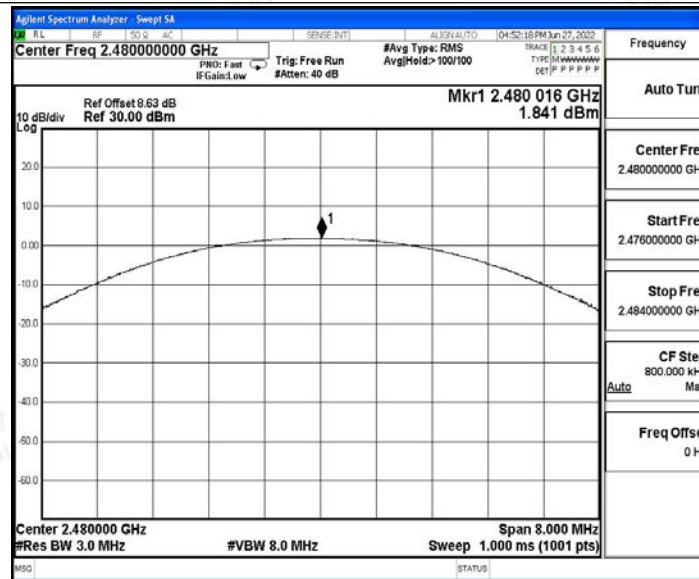


DH5_Ant1_2441

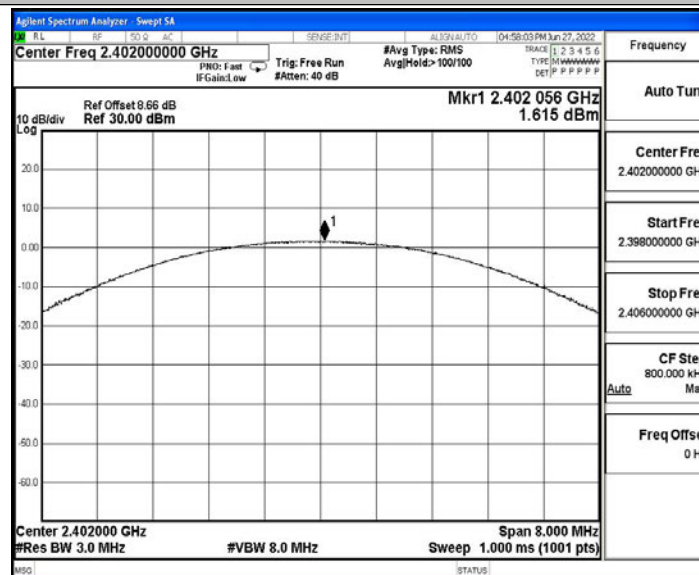


DH5_Ant1_2480



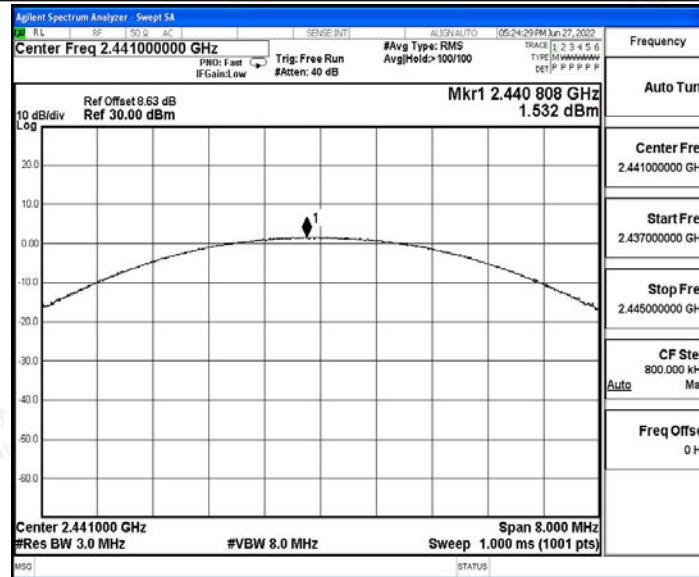


2DH5_Ant1_2402

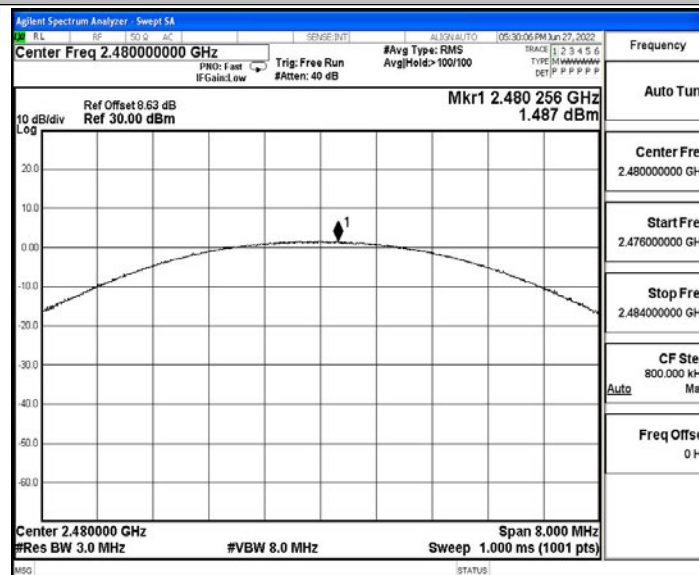


2DH5_Ant1_2441



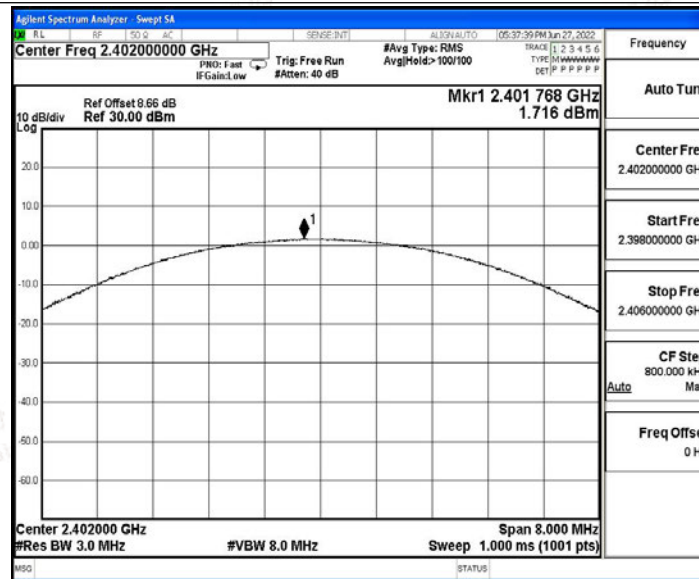


2DH5_Ant1_2480

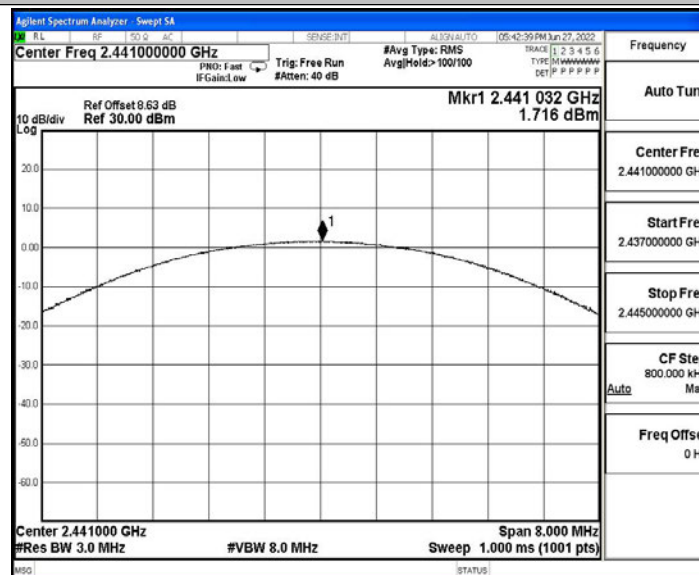


3DH5_Ant1_2402



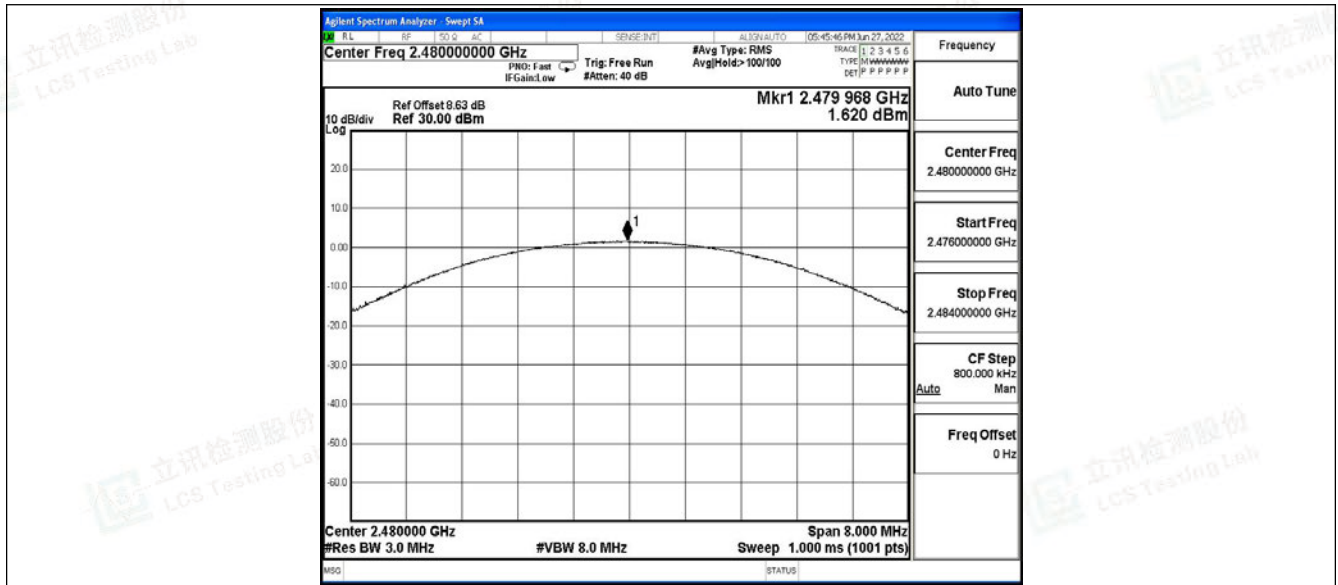


3DH5_Ant1_2441



3DH5_Ant1_2480







A.3 Carrier frequency separation

Test Result

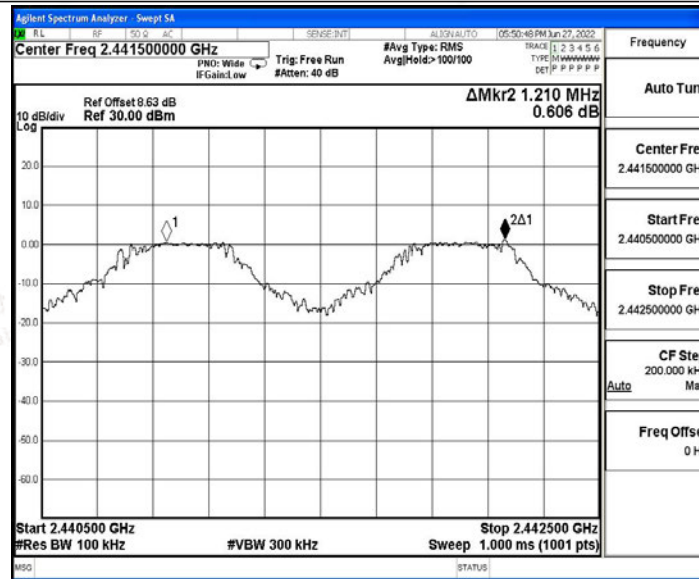
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.21	≥1.044	PASS
2DH5	Ant1	Hop	1.33	≥1.296	PASS
3DH5	Ant1	Hop	1.002	≥0.862	PASS



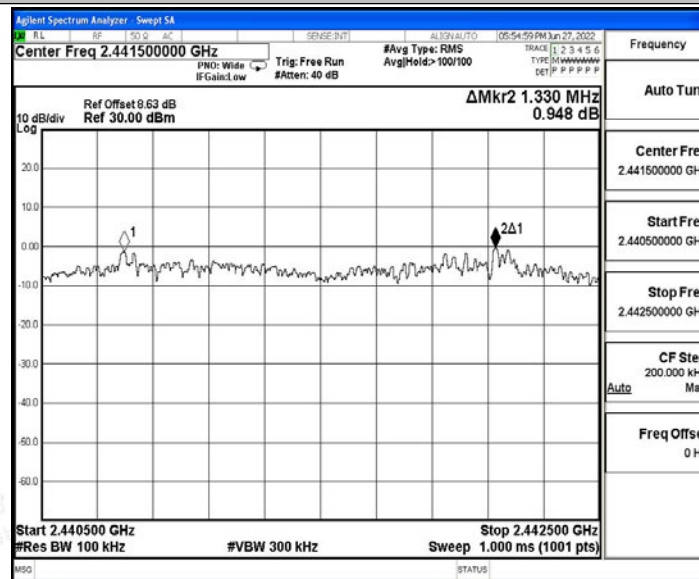


Test Graphs

DH5_Ant1_Hop

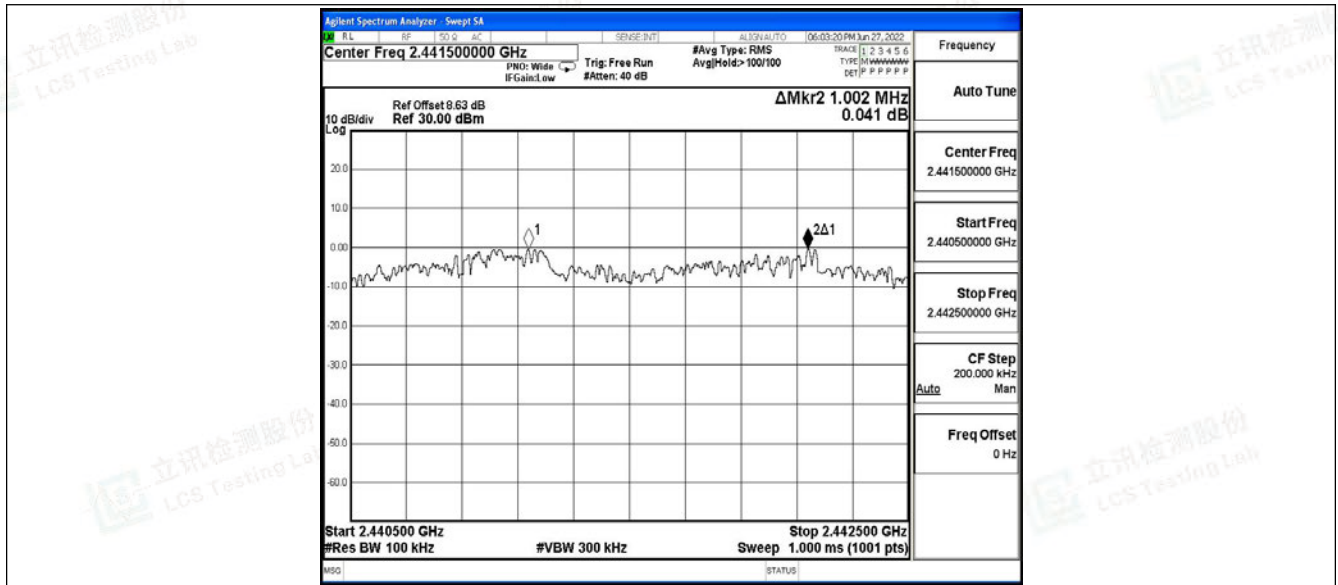


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.4 Time of occupancy

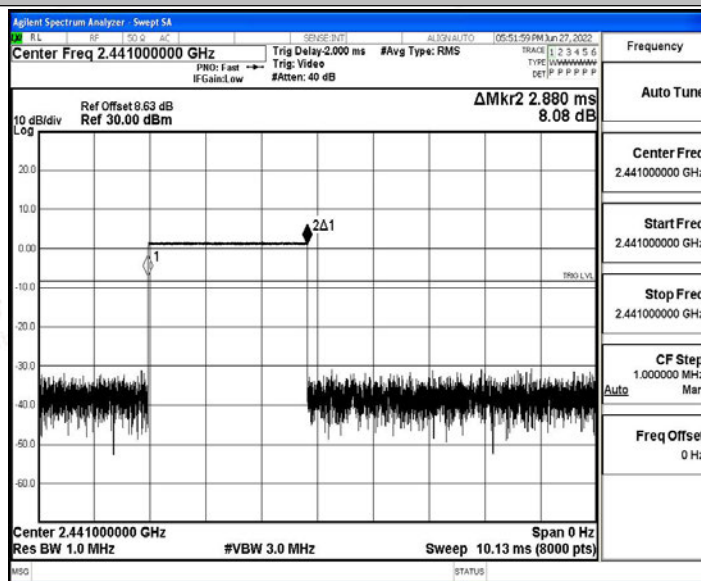
Test Result

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

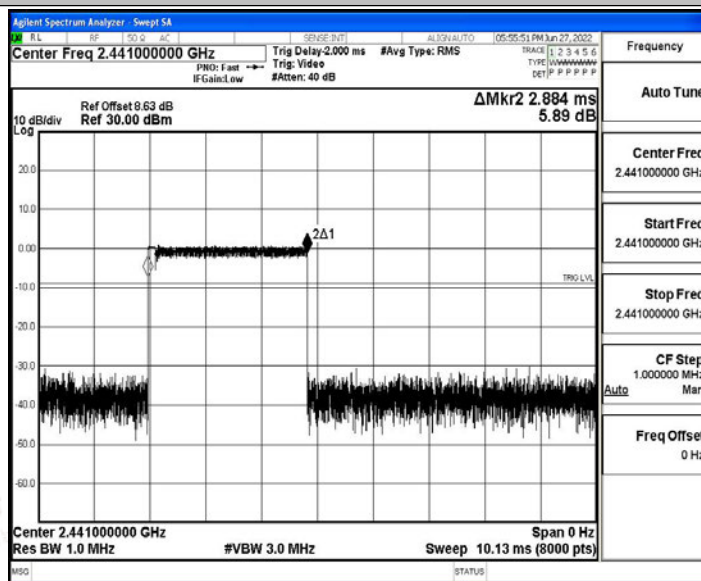


Test Graphs

DH5 Ant1 Hop

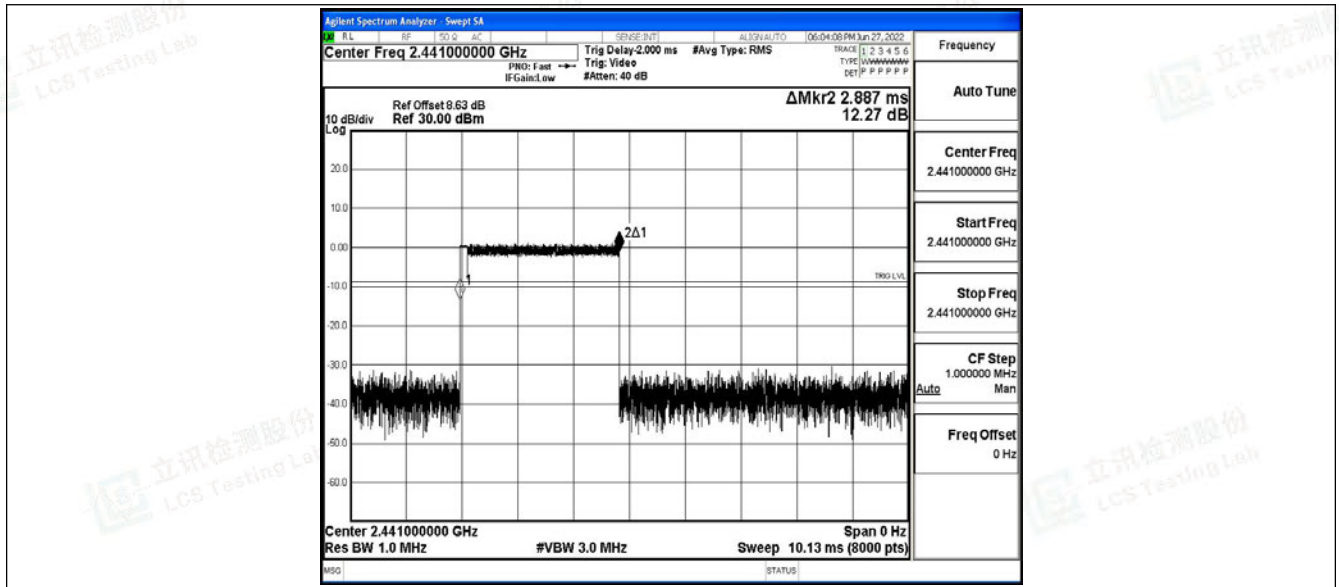


2DH5 Ant1 Hop



3DH5 Ant1 Hop







A.5 Number of hopping channels

Test Result

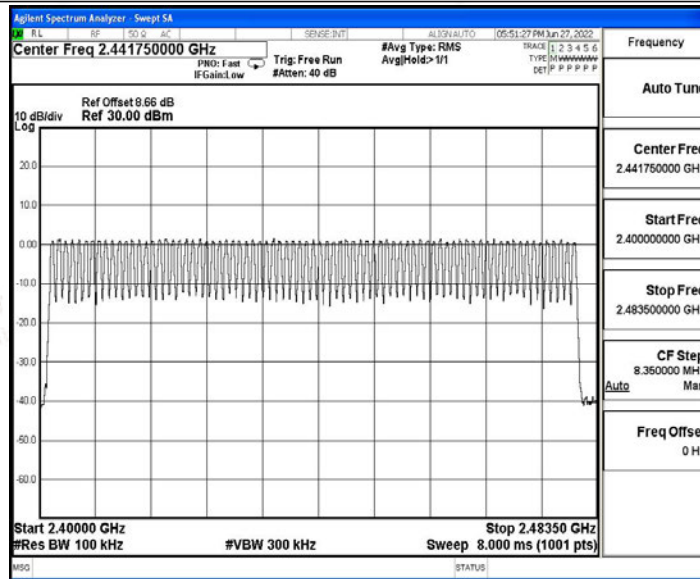
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



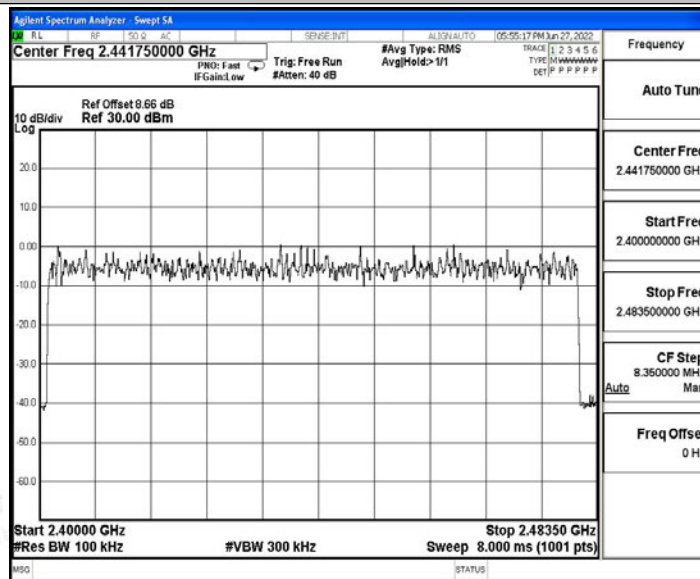


Test Graphs

DH5_Ant1_Hop

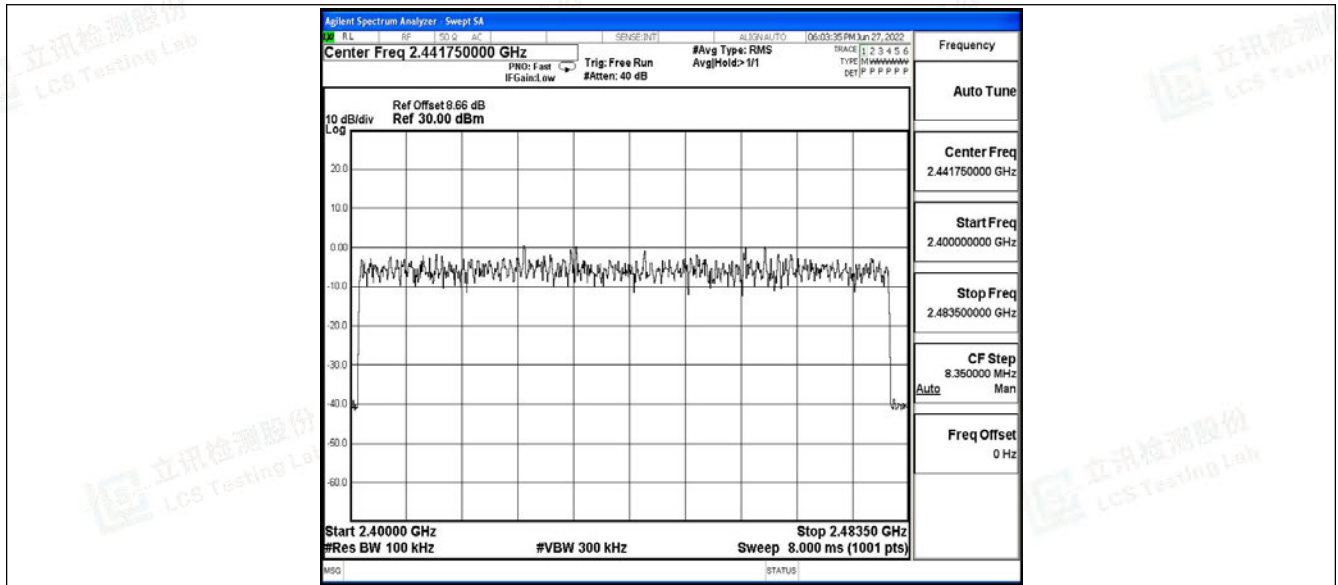


2DH5_Ant1_Hop



3DH5_Ant1_Hop







A.6 Band edge measurements

Test Result

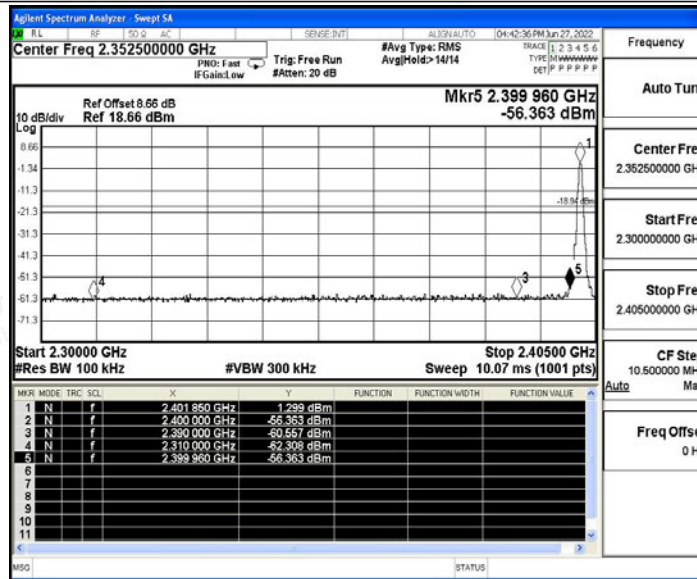
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.06	-56.39	≤-18.94	PASS
		High	2480	1.00	-57.24	≤-19.01	PASS
		Low	Hop_2402	0.63	-58.11	≤-19.37	PASS
		High	Hop_2480	1.04	-56.93	≤-18.96	PASS
2DH5	Ant1	Low	2402	0.33	-54.36	≤-19.67	PASS
		High	2480	-0.07	-57.47	≤-20.07	PASS
		Low	Hop_2402	-1.73	-59	≤-21.73	PASS
		High	Hop_2480	-0.11	-57.42	≤-20.11	PASS
3DH5	Ant1	Low	2402	-2.82	-54.75	≤-22.82	PASS
		High	2480	-0.06	-57.61	≤-20.06	PASS
		Low	Hop_2402	-3.64	-58.67	≤-23.64	PASS
		High	Hop_2480	-0.99	-58.1	≤-20.99	PASS



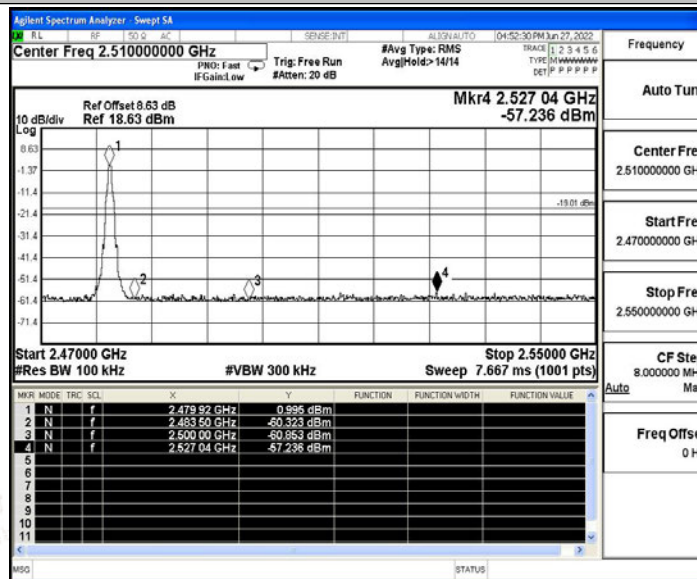


Test Graphs

DH5_Ant1_Low_2402

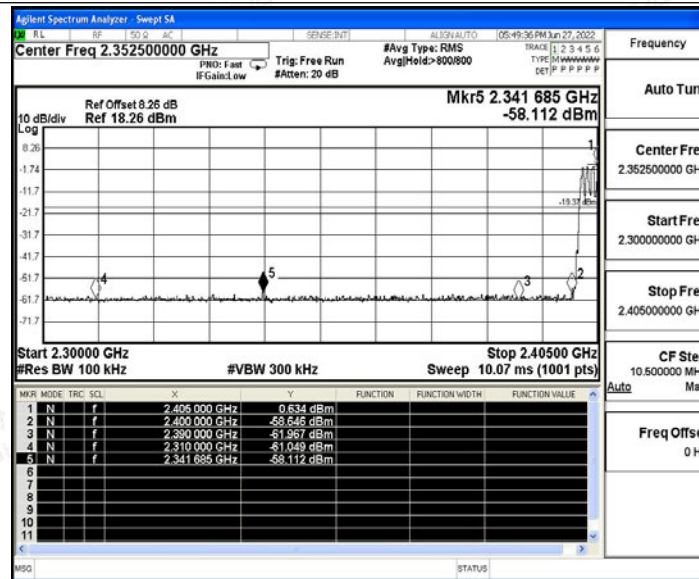


DH5_Ant1_High_2480

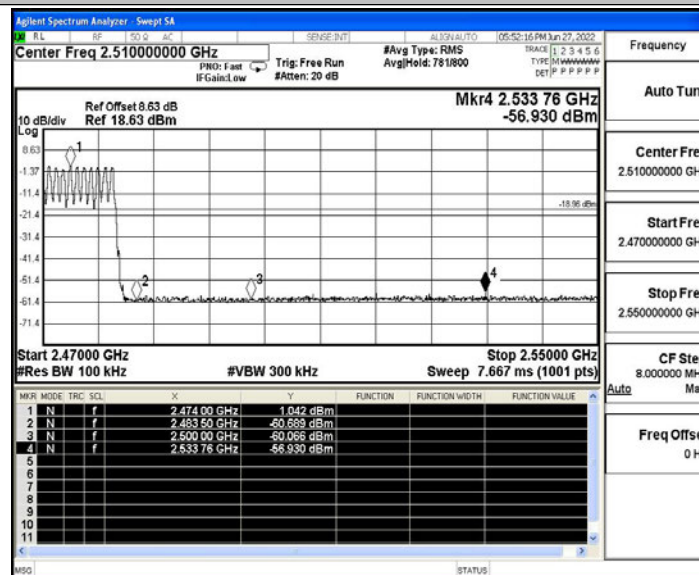


DH5_Ant1_Low_Hop_2402



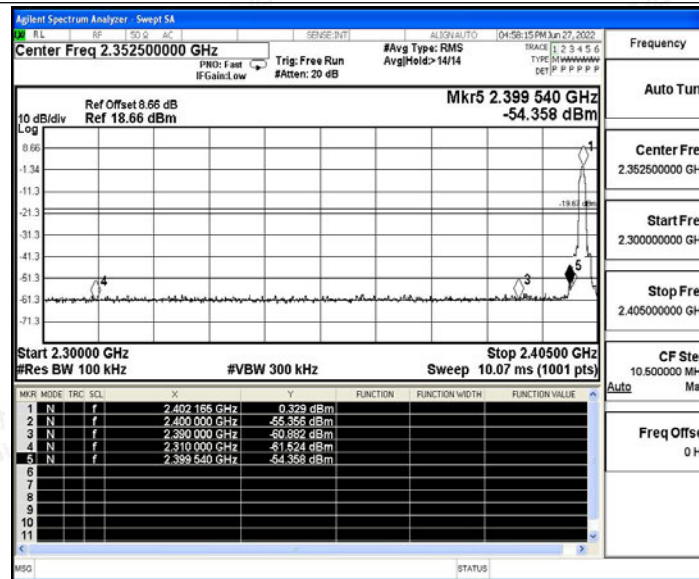


DH5_Ant1_High_Hop_2480

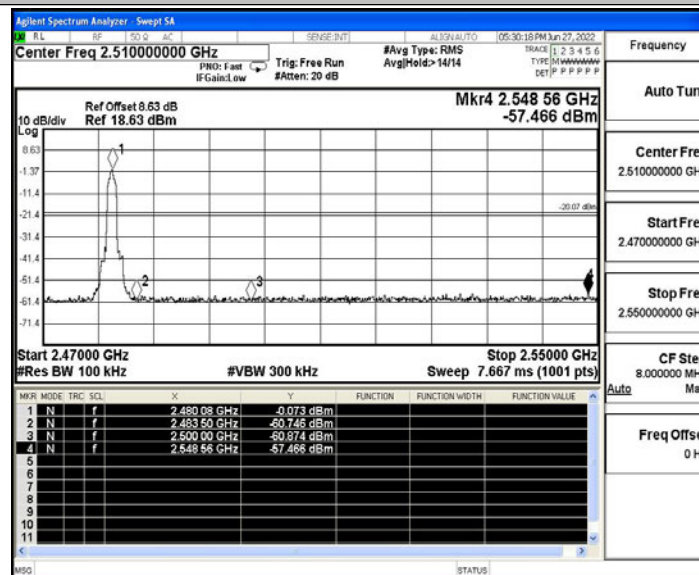


2DH5_Ant1_Low_2402



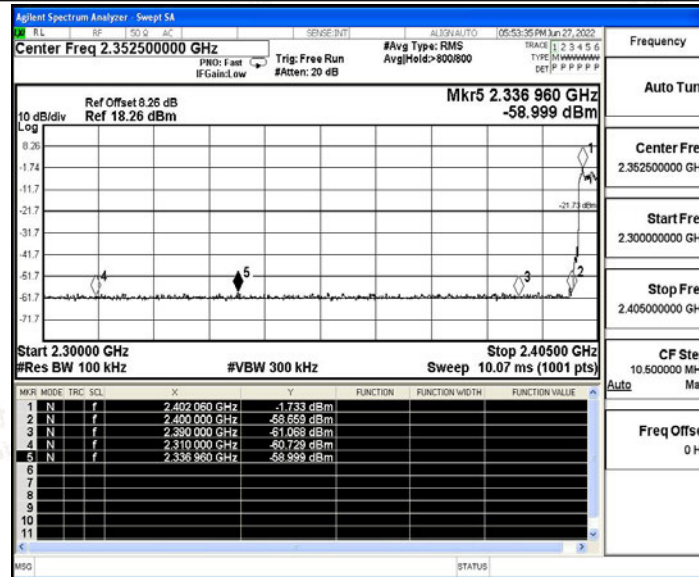


2DH5_Ant1_High_2480

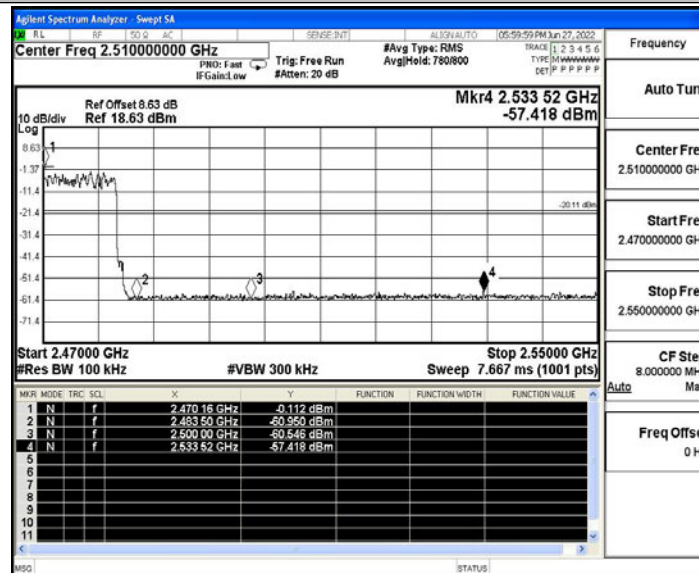


2DH5_Ant1_Low_Hop_2402



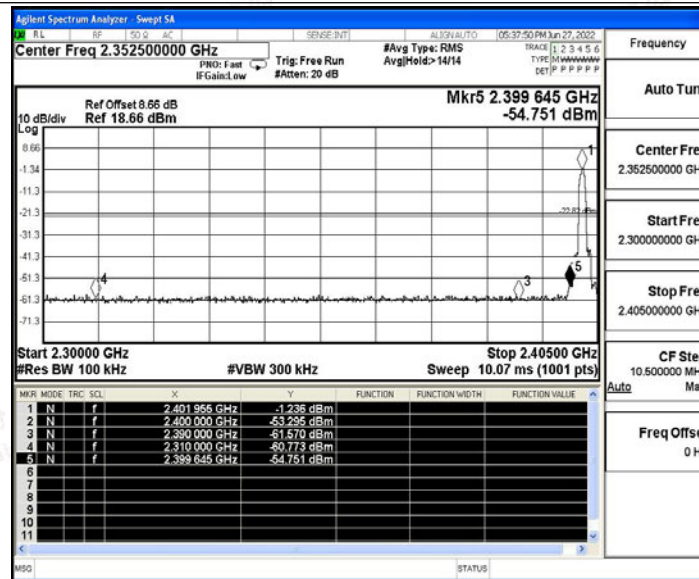


2DH5_Ant1_High_Hop_2480

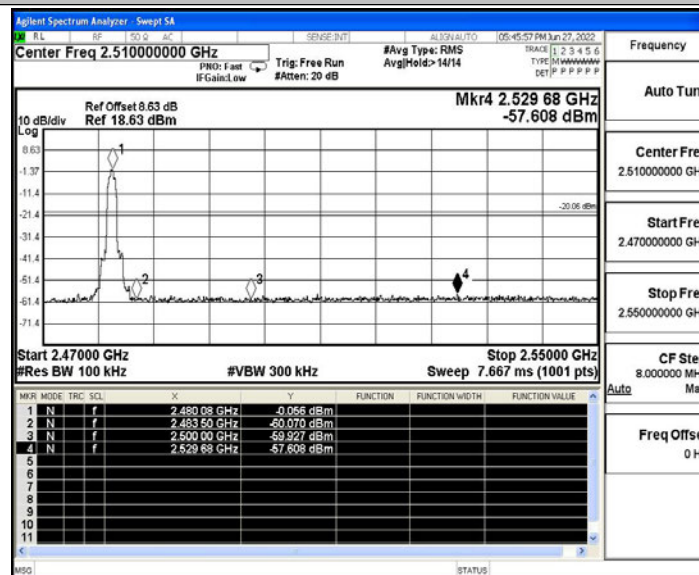


3DH5_Ant1_Low_2402



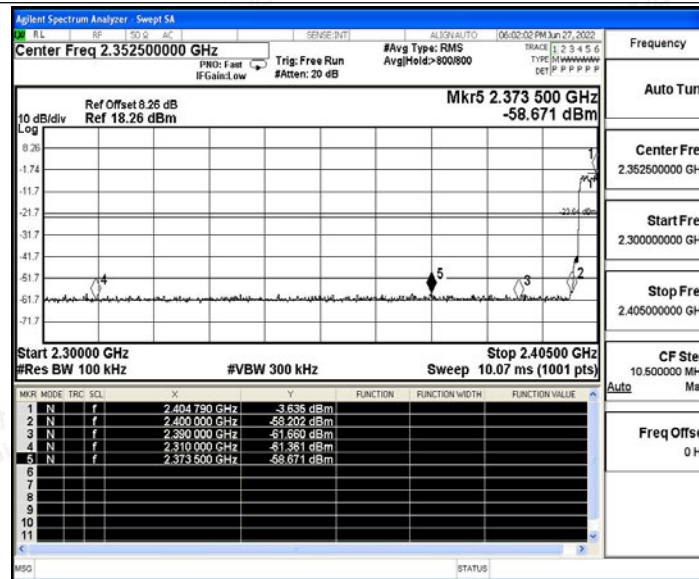


3DH5_Ant1_High_2480

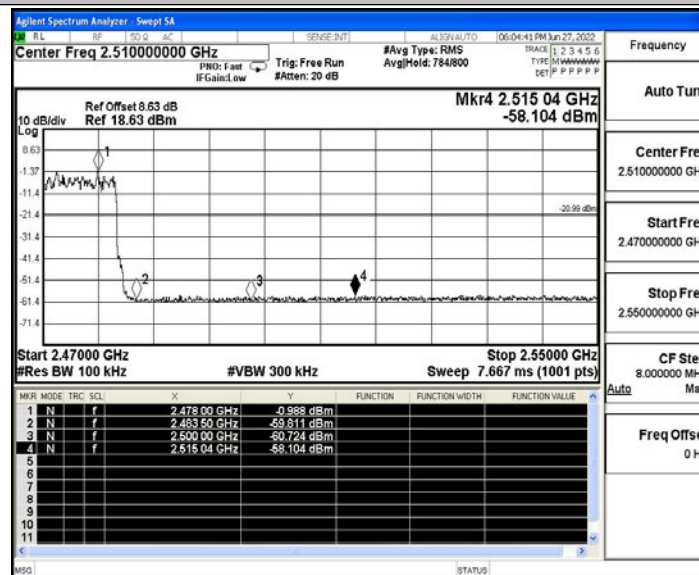


3DH5_Ant1_Low_Hop_2402





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	1.35	1.35	---	PASS
			30~1000	1.35	-49.33	≤-18.65	PASS
			1000~26500	1.35	-46.32	≤-18.65	PASS
		2441	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-48.66	≤-18.71	PASS
			1000~26500	1.29	-45.95	≤-18.71	PASS
		2480	Reference	1.28	1.28	---	PASS
			30~1000	1.28	-49.42	≤-18.72	PASS
			1000~26500	1.28	-46.02	≤-18.72	PASS
2DH5	Ant1	2402	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-51.21	≤-19.58	PASS
			1000~26500	0.42	-46.56	≤-19.58	PASS
		2441	Reference	-0.56	-0.56	---	PASS
			30~1000	-0.56	-58.09	≤-20.56	PASS
			1000~26500	-0.56	-46.24	≤-20.56	PASS
		2480	Reference	0.15	0.15	---	PASS
			30~1000	0.15	-53.74	≤-19.85	PASS
			1000~26500	0.15	-46.33	≤-19.85	PASS
3DH5	Ant1	2402	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-59.81	≤-19.66	PASS
			1000~26500	0.34	-46.65	≤-19.66	PASS
		2441	Reference	0.21	0.21	---	PASS
			30~1000	0.21	-60.07	≤-19.79	PASS
			1000~26500	0.21	-45.98	≤-19.79	PASS
		2480	Reference	0.24	0.24	---	PASS
			30~1000	0.24	-59.5	≤-19.76	PASS
			1000~26500	0.24	-45.61	≤-19.76	PASS



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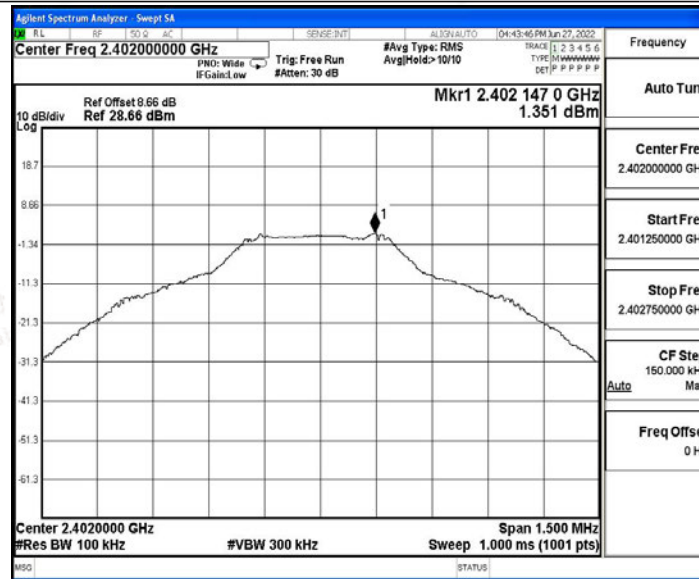
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

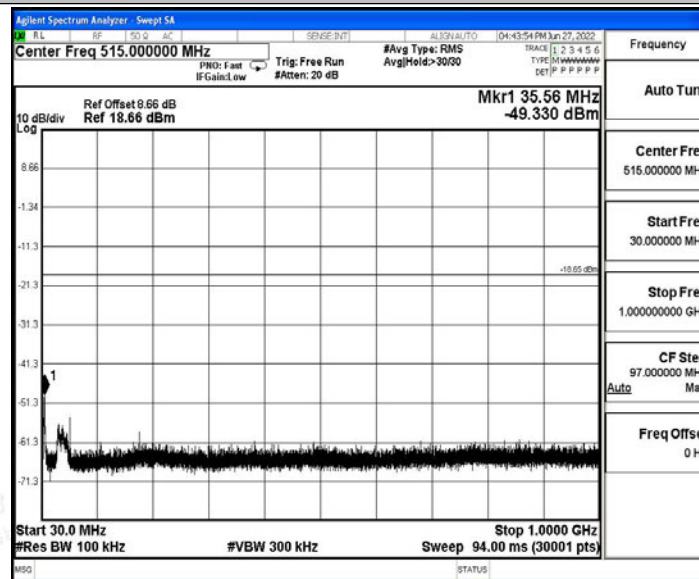


Test Graphs

DH5_Ant1_2402_0~Reference

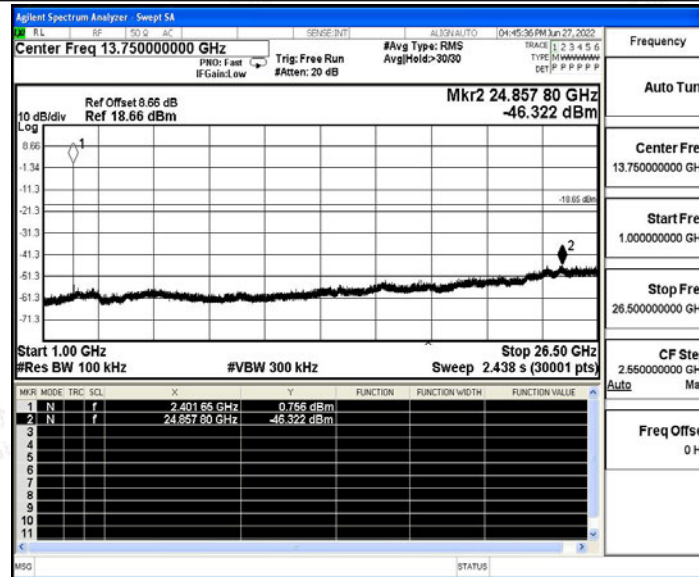


DH5_Ant1_2402_30~1000

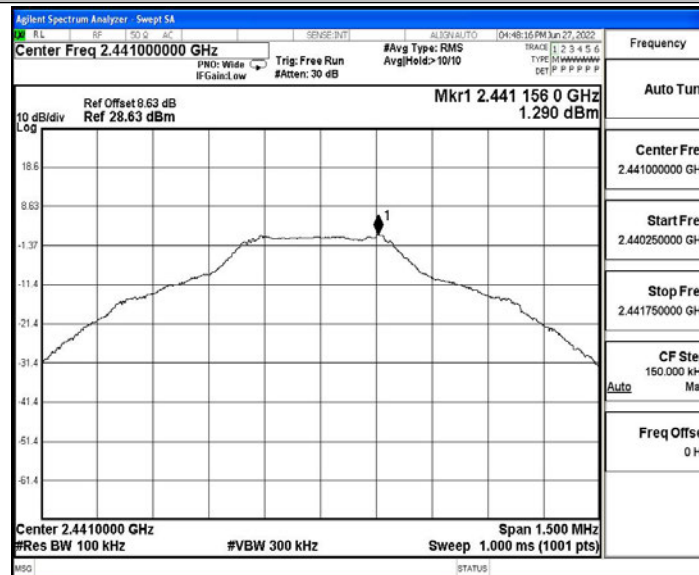


DH5_Ant1_2402_1000~26500



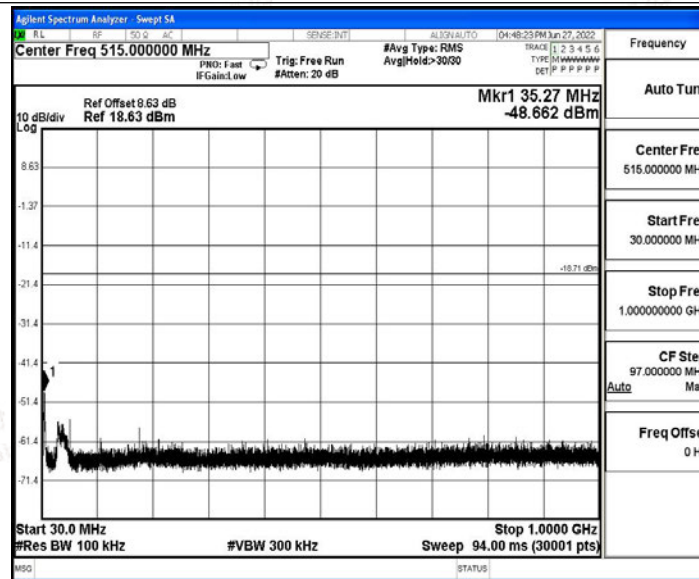


DH5_Ant1_2441_0~Reference

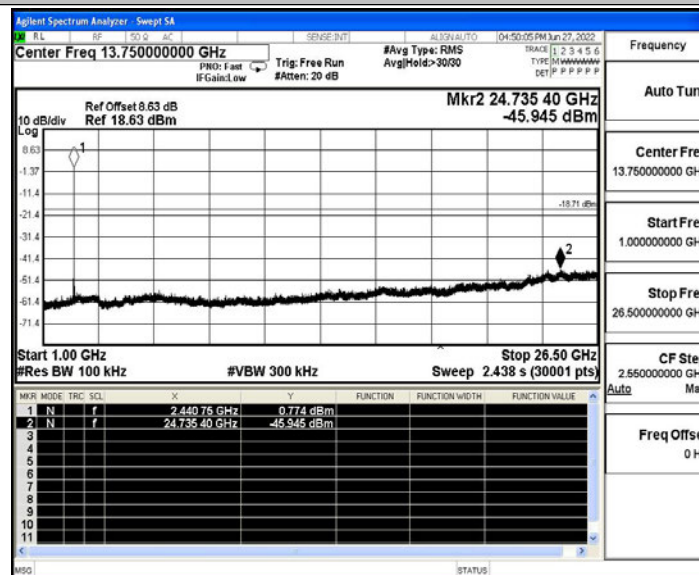


DH5_Ant1_2441_30~1000



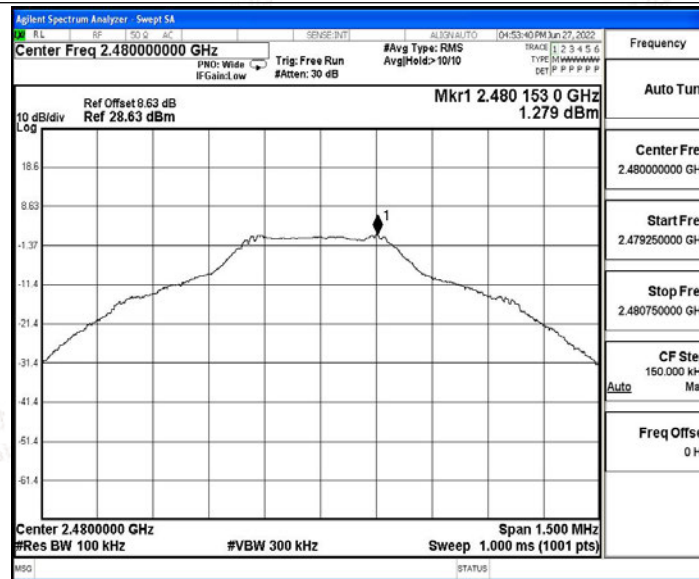


DH5_Ant1_2441_1000~26500

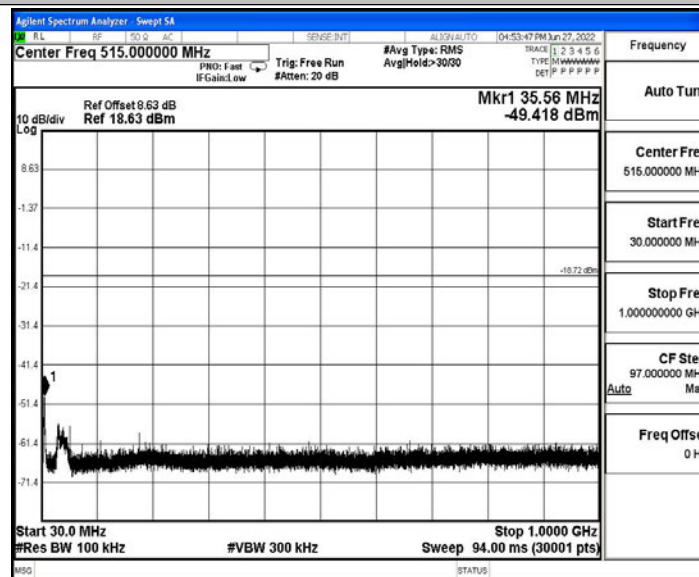


DH5_Ant1_2480_0~Reference



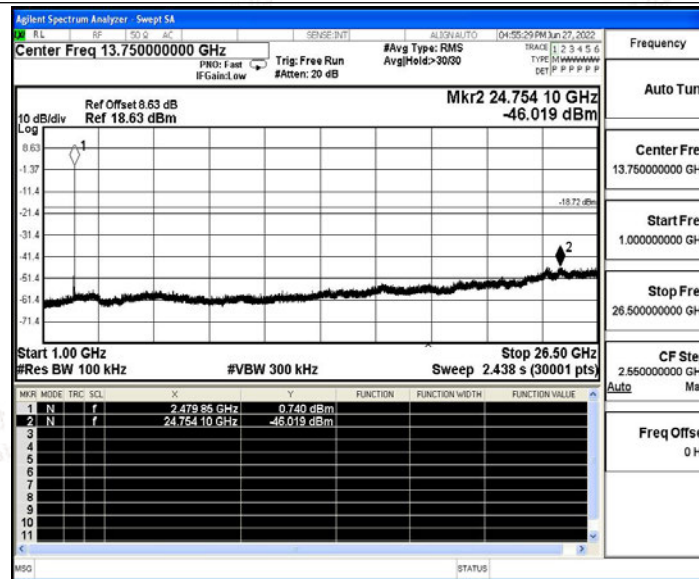


DH5_Ant1_2480_30~1000

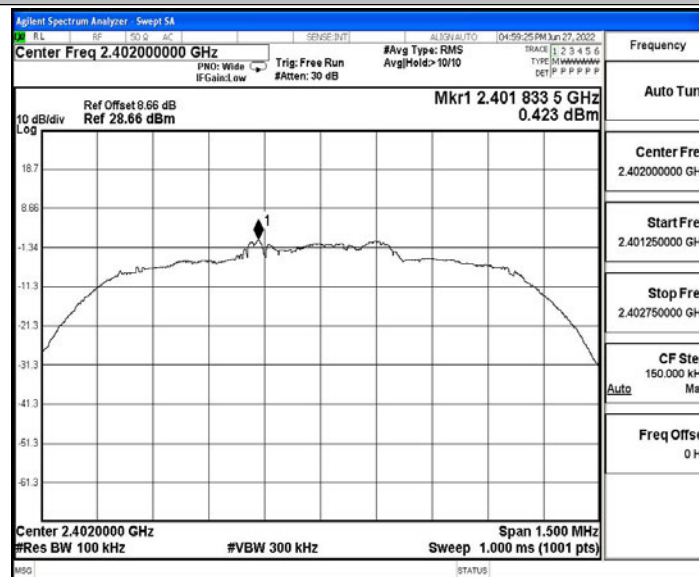


DH5_Ant1_2480_1000~26500



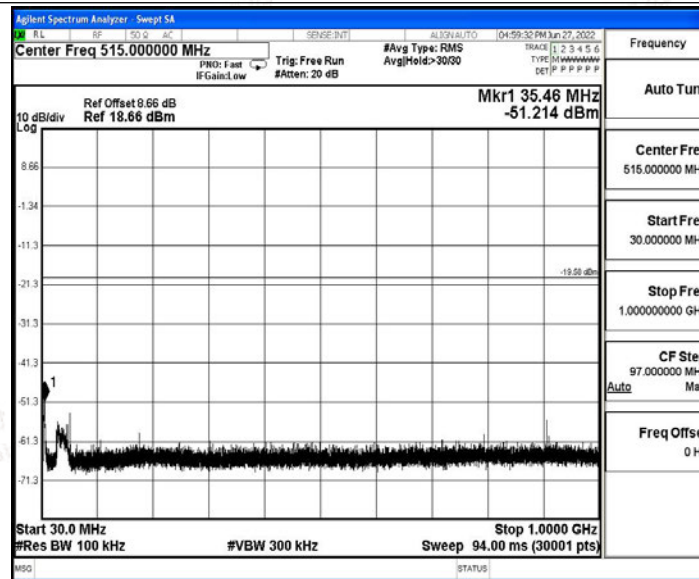


2DH5_Ant1_2402_0~Reference

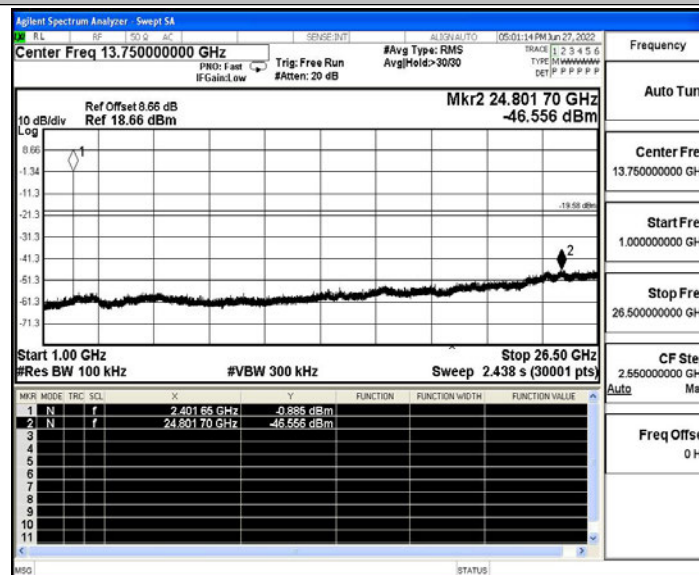


2DH5_Ant1_2402_30~1000



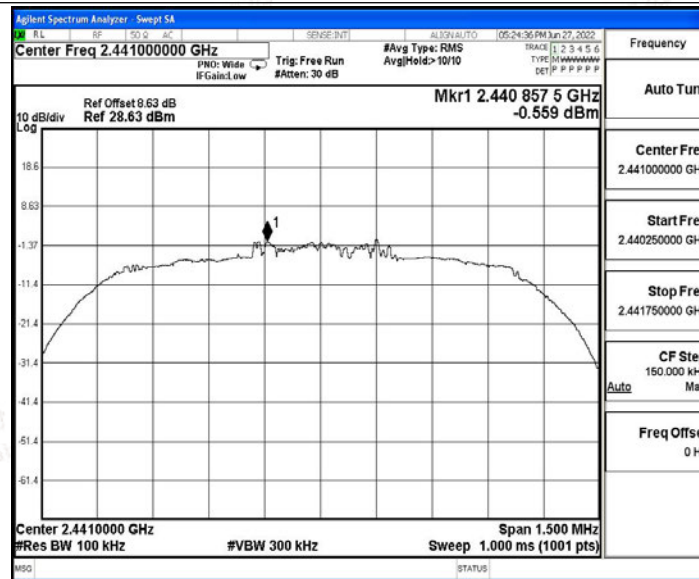


2DH5_Ant1_2402_1000~26500

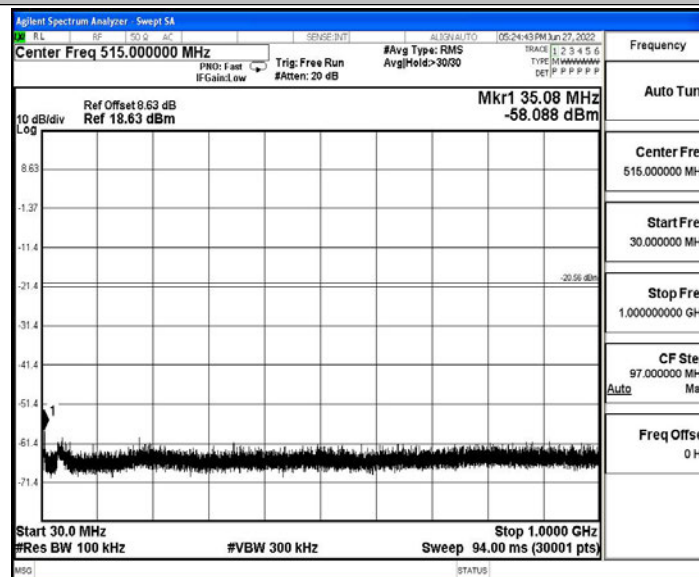


2DH5_Ant1_2441_0~Reference



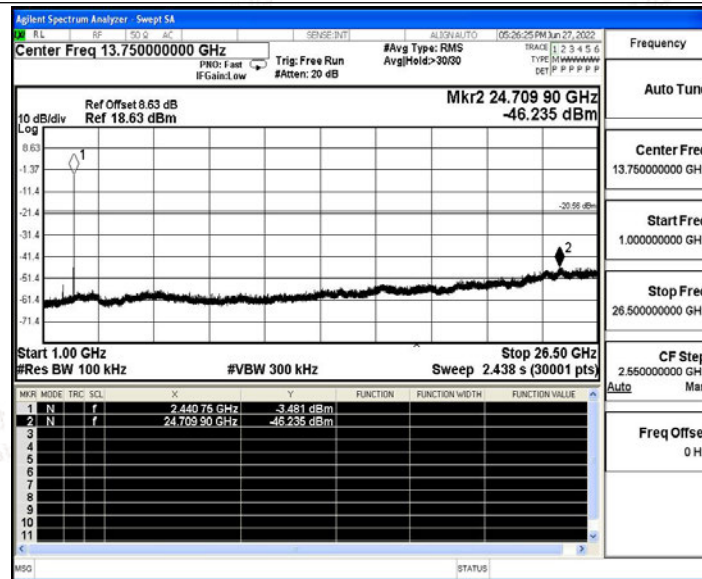


2DH5_Ant1_2441_30~1000

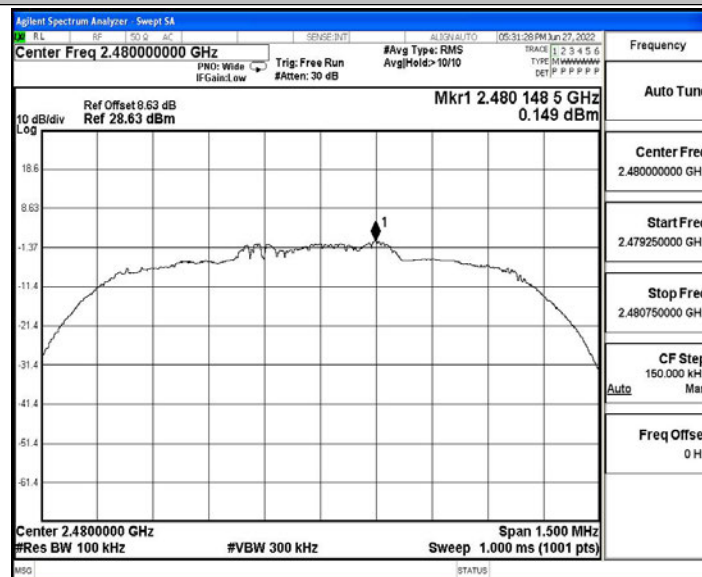


2DH5_Ant1_2441_1000~26500



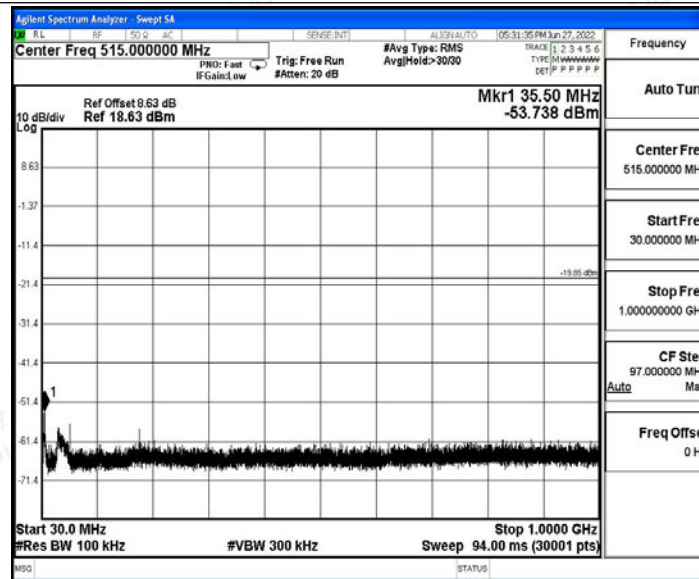


2DH5_Ant1_2480_0~Reference

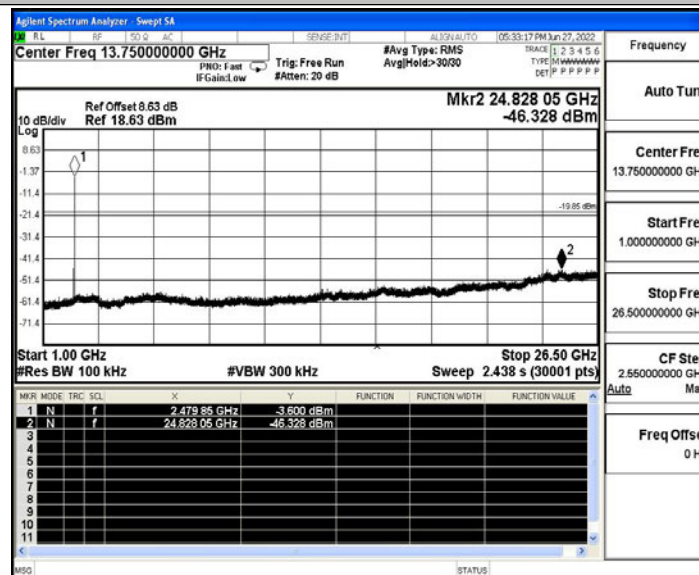


2DH5_Ant1_2480_30~1000



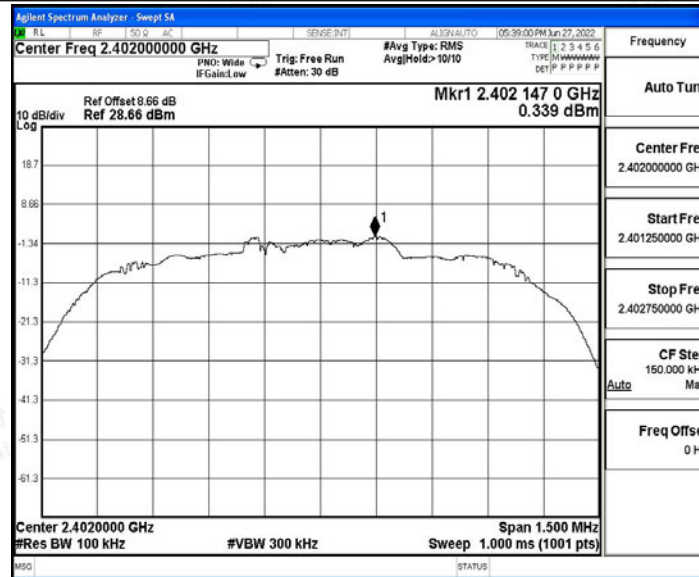


2DH5_Ant1_2480_1000~26500

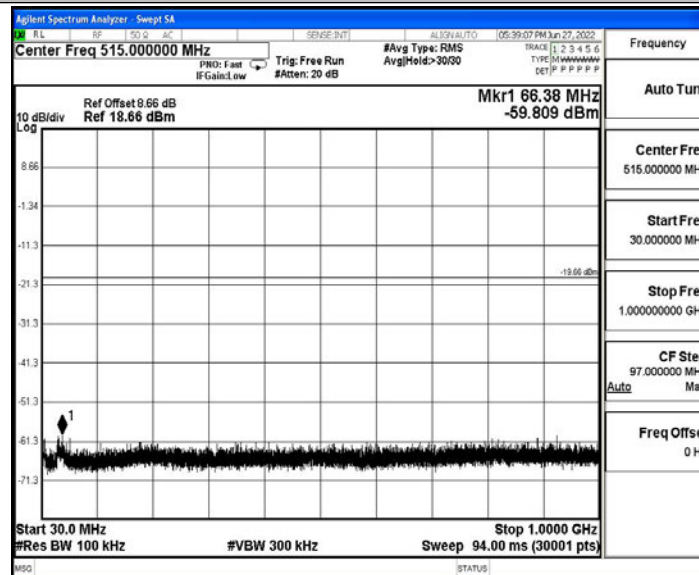


3DH5_Ant1_2402_0~Reference



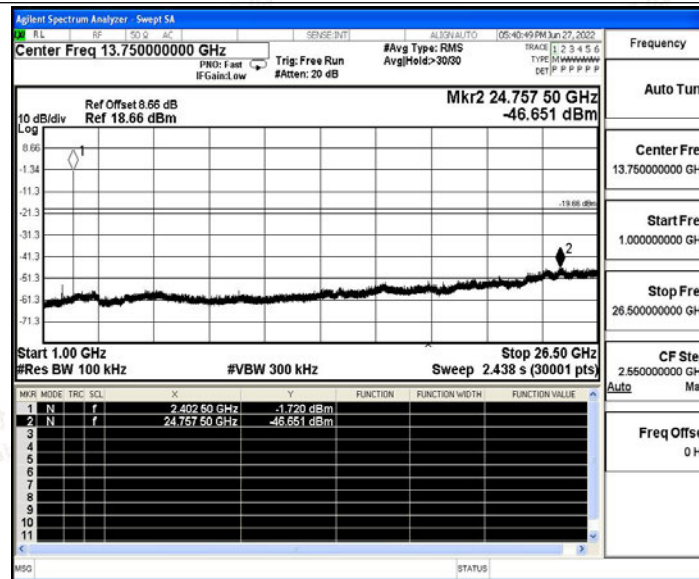


3DH5_Ant1_2402_30~1000

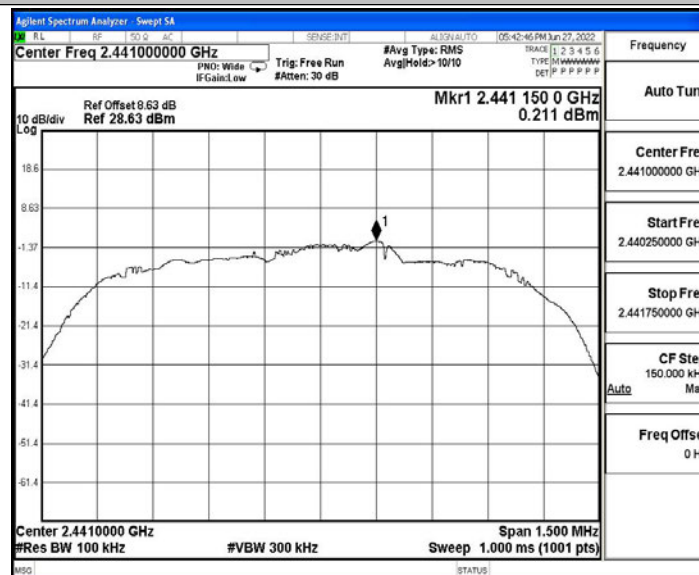


3DH5_Ant1_2402_1000~26500



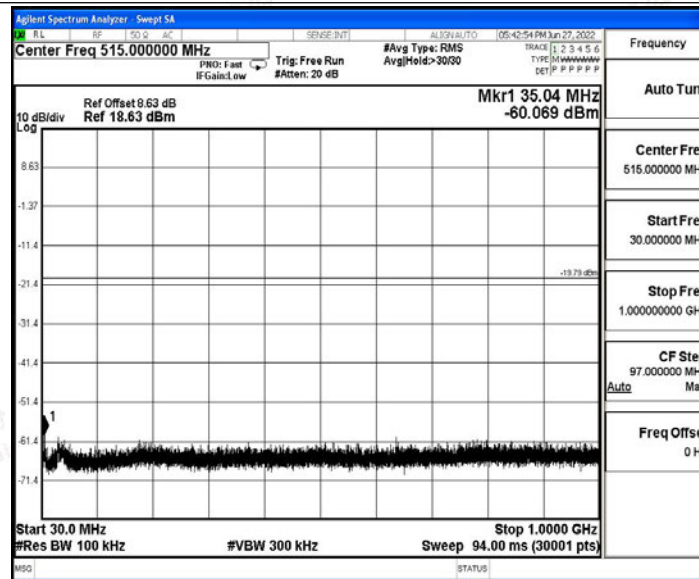


3DH5_Ant1_2441_0~Reference

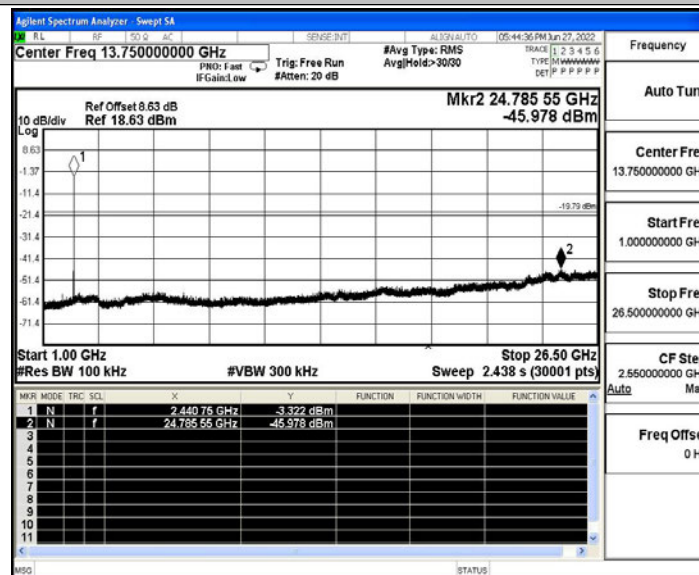


3DH5_Ant1_2441_30~1000



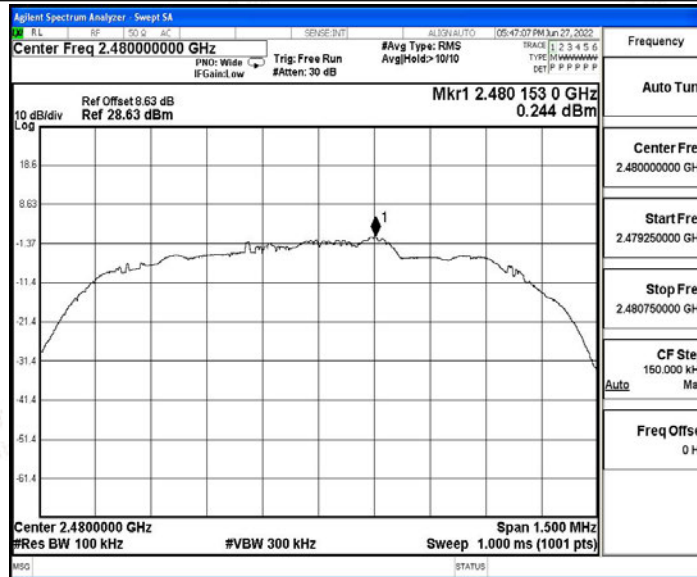


3DH5_Ant1_2441_1000~26500

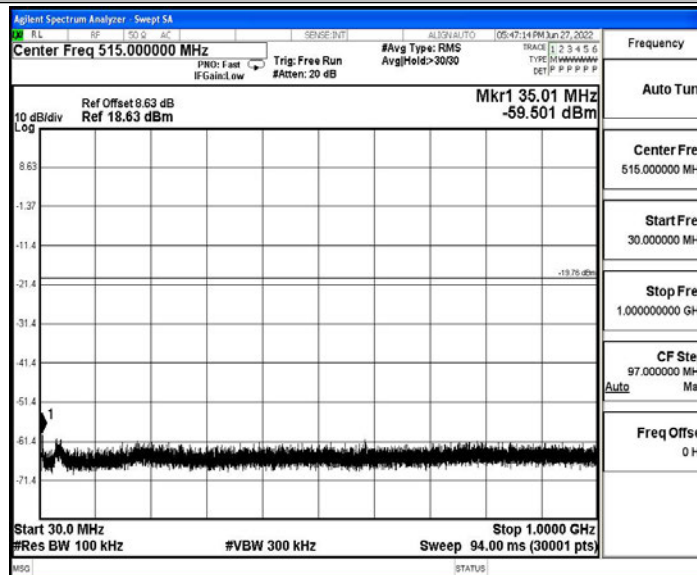


3DH5_Ant1_2480_0~Reference



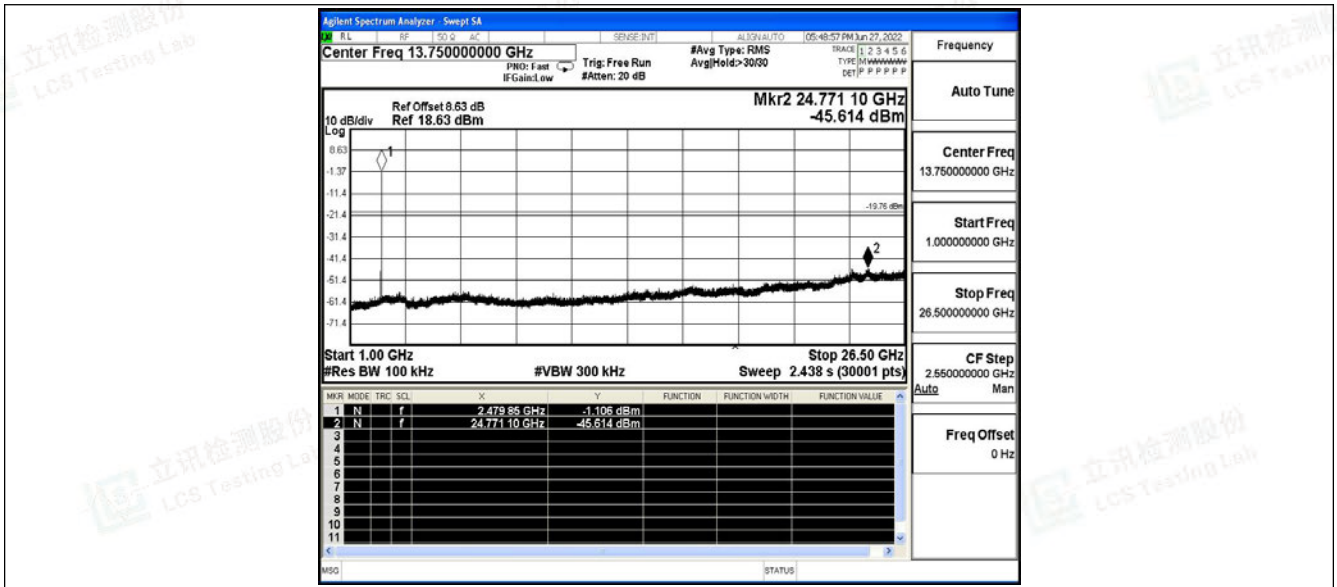


3DH5_Ant1_2480_30~1000



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	-58.03	≤-41.20	37.17	≤54	PASS
				AV	2388.095	-57.53	≤-41.20	37.67	≤54	PASS
				AV	2390.000	-57.56	≤-41.20	37.64	≤54	PASS
				Peak	2310.000	-48.93	≤-21.20	46.27	≤74	PASS
				Peak	2330.555	-45.85	≤-21.20	49.35	≤74	PASS
				Peak	2390.000	-47.9	≤-21.20	47.30	≤74	PASS
		High	2480	AV	2483.500	-54.77	≤-41.20	40.43	≤54	PASS
				AV	2483.520	-54.77	≤-41.20	40.43	≤54	PASS
				AV	2500.000	-57.11	≤-41.20	38.09	≤54	PASS
				Peak	2483.500	-47.49	≤-21.20	47.71	≤74	PASS
				Peak	2483.680	-45.94	≤-21.20	49.26	≤74	PASS
				Peak	2500.000	-47.87	≤-21.20	47.33	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-49.09	≤-21.20	46.11	≤74	PASS
				Peak	2374.655	-46.7	≤-21.20	48.50	≤74	PASS
				Peak	2390.000	-48.52	≤-21.20	46.68	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-47.58	≤-21.20	47.62	≤74	PASS
				Peak	2494.320	-45.3	≤-21.20	49.90	≤74	PASS
				Peak	2500.000	-46.88	≤-21.20	48.32	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-58.12	≤-41.20	37.08	≤54	PASS
				AV	2389.355	-57.52	≤-41.20	37.68	≤54	PASS
				AV	2390.000	-57.57	≤-41.20	37.63	≤54	PASS
				Peak	2310.000	-48.83	≤-21.20	46.37	≤74	PASS
				Peak	2320.685	-46.31	≤-21.20	48.89	≤74	PASS
				Peak	2390.000	-47.79	≤-21.20	47.41	≤74	PASS
		High	2480	AV	2483.500	-54.49	≤-41.20	40.71	≤54	PASS
				AV	2483.520	-54.48	≤-41.20	40.72	≤54	PASS
				AV	2500.000	-57.06	≤-41.20	38.14	≤54	PASS
				Peak	2483.500	-47.36	≤-21.20	47.84	≤74	PASS
				Peak	2484.000	-45.96	≤-21.20	49.24	≤74	PASS
				Peak	2500.000	-48.15	≤-21.20	47.05	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-48.74	≤-21.20	46.46	≤74	PASS
				Peak	2351.240	-46.59	≤-21.20	48.61	≤74	PASS
				Peak	2390.000	-48.15	≤-21.20	47.05	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-47.44	≤-21.20	47.76	≤74	PASS
				Peak	2497.360	-46.26	≤-21.20	48.94	≤74	PASS



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3DH5	Ant1	Low	2402	Peak	2500.000	-47.71	≤-21.20	47.49	≤74	PASS
				AV	2310.000	-57.96	≤-41.20	37.24	≤54	PASS
				AV	2388.200	-57.39	≤-41.20	37.81	≤54	PASS
				AV	2390.000	-57.58	≤-41.20	37.62	≤54	PASS
				Peak	2310.000	-48.56	≤-21.20	46.64	≤74	PASS
				Peak	2376.860	-46.18	≤-21.20	49.02	≤74	PASS
				Peak	2390.000	-47.02	≤-21.20	48.18	≤74	PASS
		High	2480	AV	2483.500	-54.55	≤-41.20	40.65	≤54	PASS
				AV	2483.520	-54.55	≤-41.20	40.65	≤54	PASS
				AV	2500.000	-57.02	≤-41.20	38.18	≤54	PASS
				Peak	2483.500	-46.52	≤-21.20	48.68	≤74	PASS
				Peak	2495.760	-44.66	≤-21.20	50.54	≤74	PASS
				Peak	2500.000	-47.74	≤-21.20	47.46	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-49.48	≤-21.20	45.72	≤74	PASS
				Peak	2389.040	-46.68	≤-21.20	48.52	≤74	PASS
				Peak	2390.000	-49.23	≤-21.20	45.97	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-48.19	≤-21.20	47.01	≤74	PASS
				Peak	2485.760	-46.1	≤-21.20	49.10	≤74	PASS
				Peak	2500.000	-47.54	≤-21.20	47.66	≤74	PASS

Note:

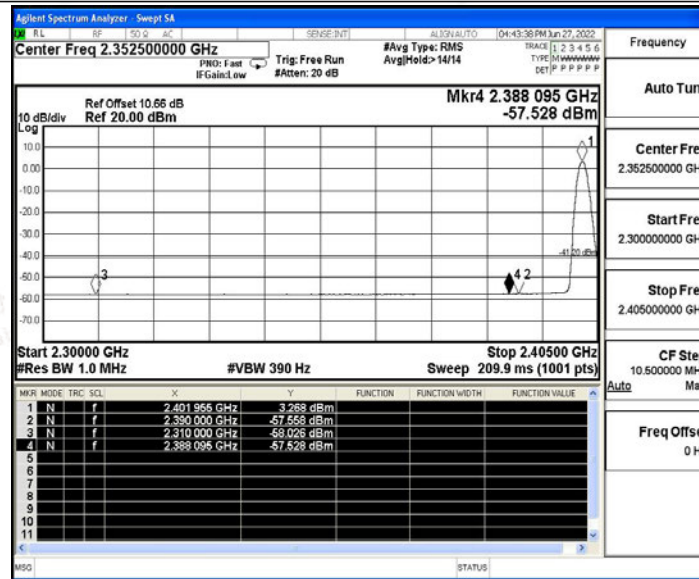
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



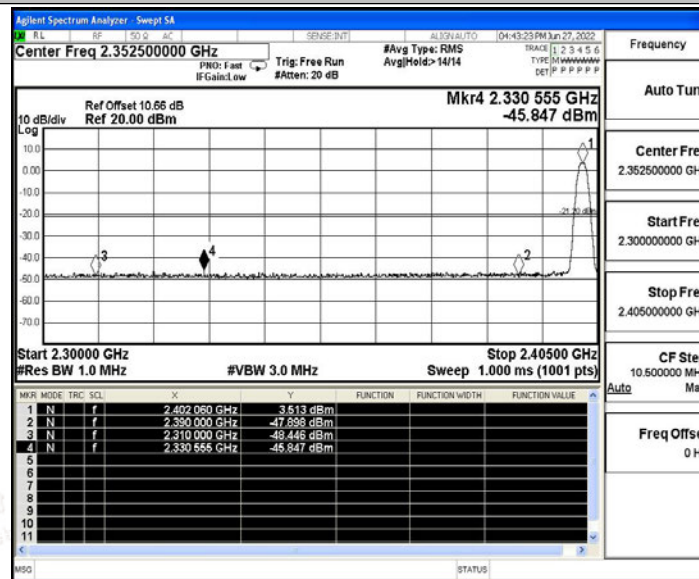


Test Graphs

DH5_Ant1_Low_2402_AV



DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

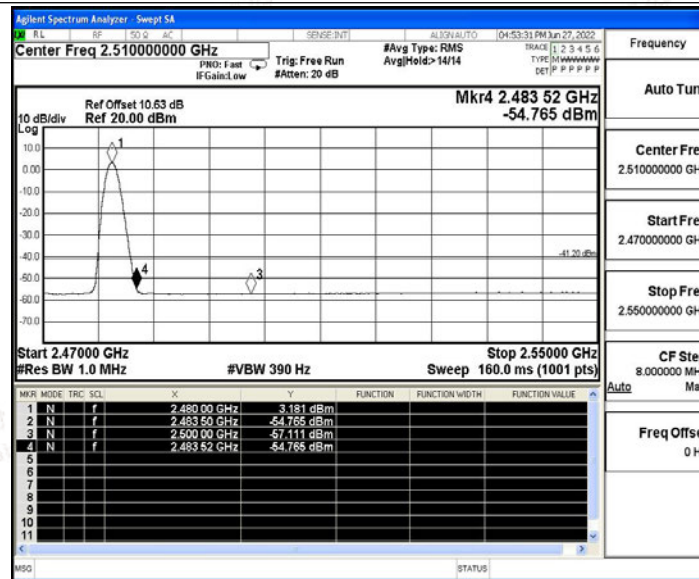


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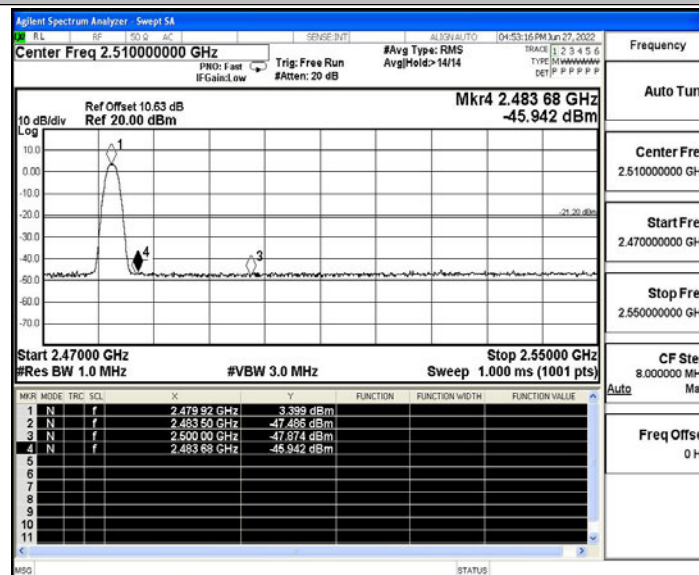
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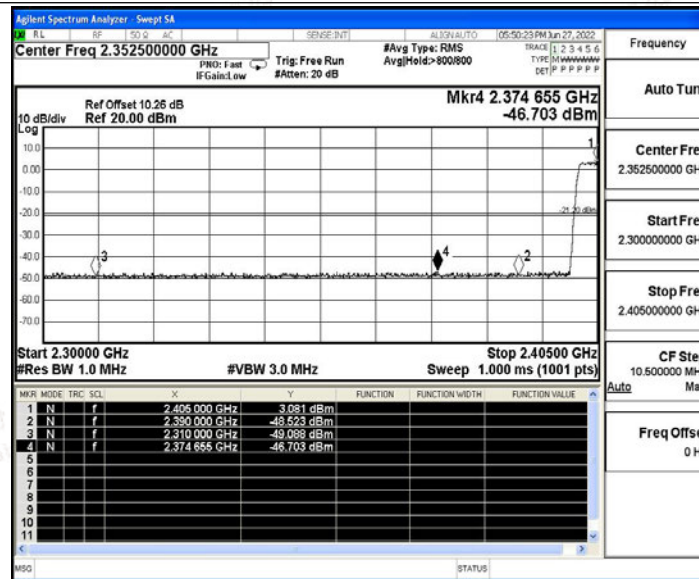


DH5_Ant1_High_2480_Peak

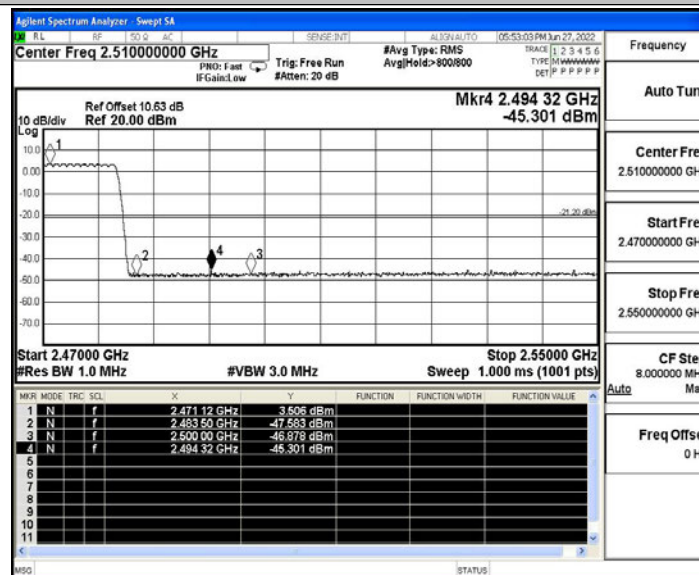


DH5_Ant1_Low_Hop_2402_Peak



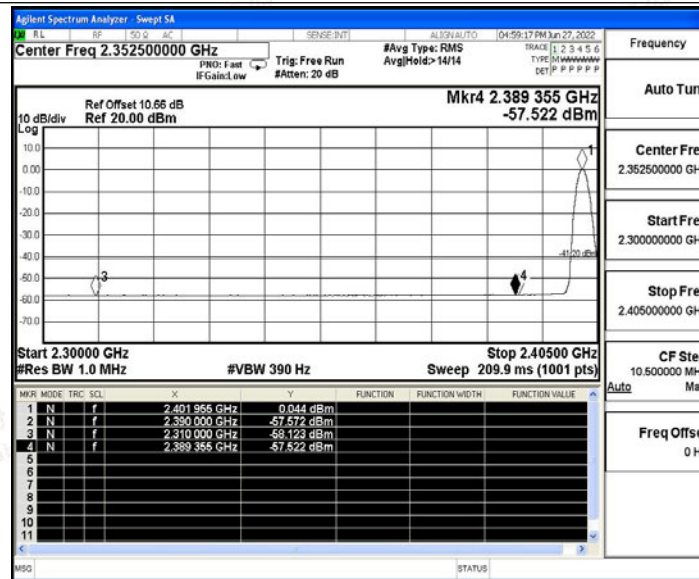


DH5_Ant1_High_Hop_2480_Peak

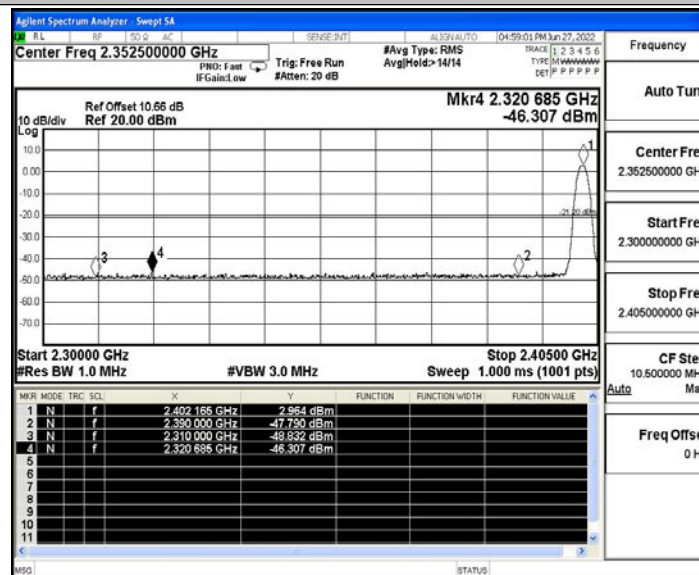


2DH5_Ant1_Low_2402_AV



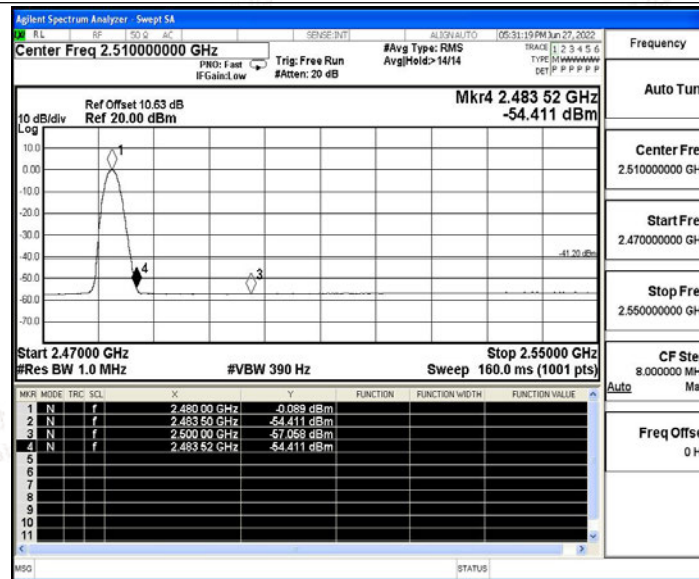


2DH5_Ant1_Low_2402_Peak

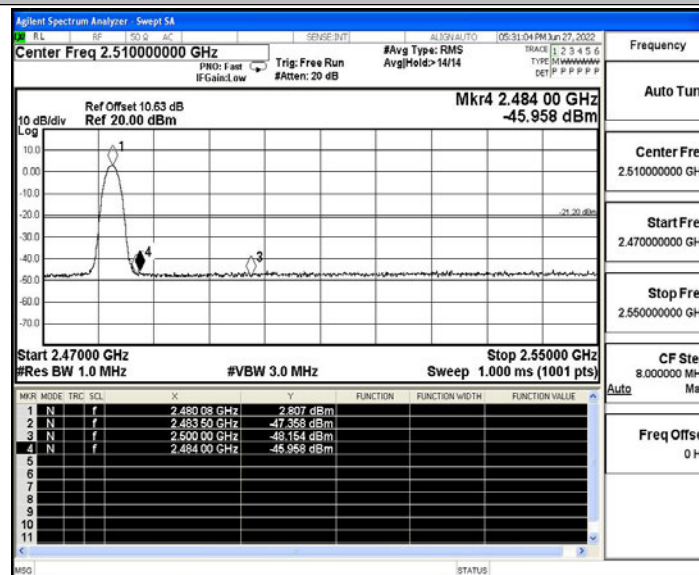


2DH5_Ant1_High_2480_AV



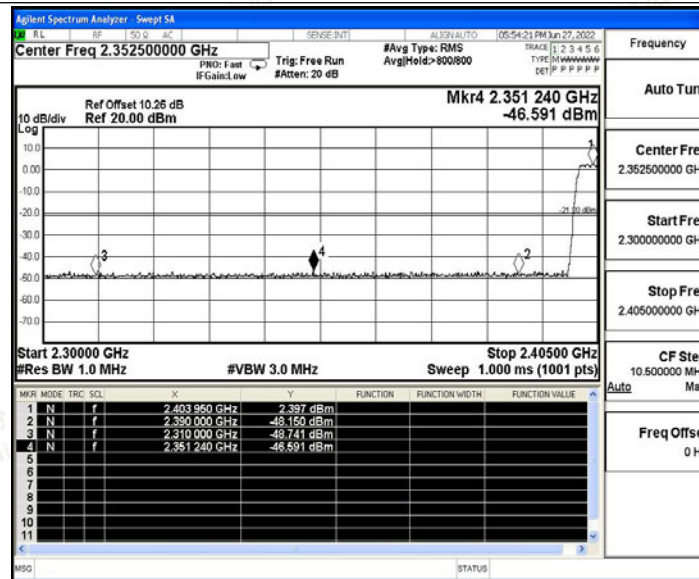


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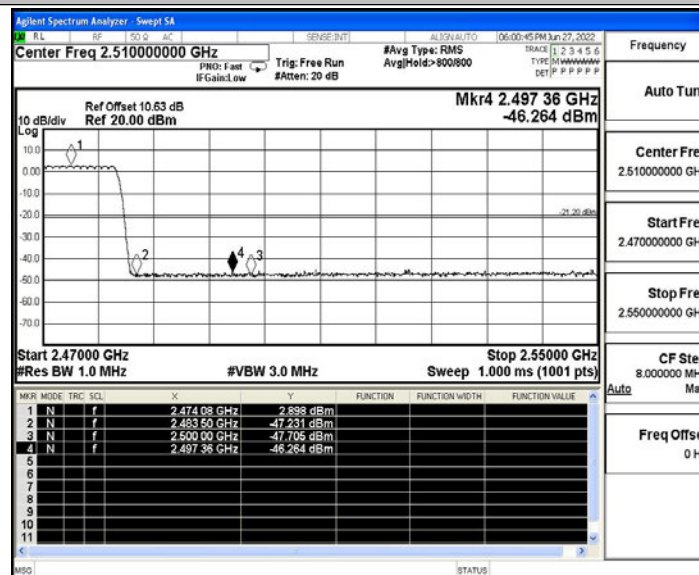


2DH5_Ant1_Low_Hop_2402_Peak



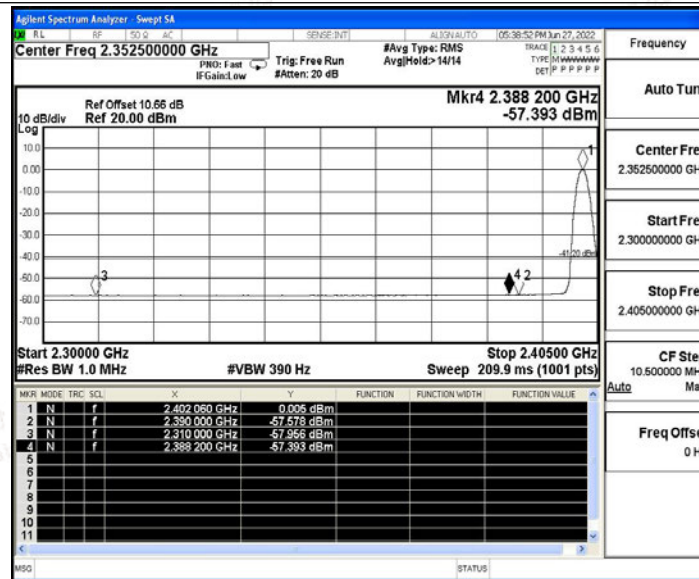


2DH5_Ant1_High_Hop_2480_Peak

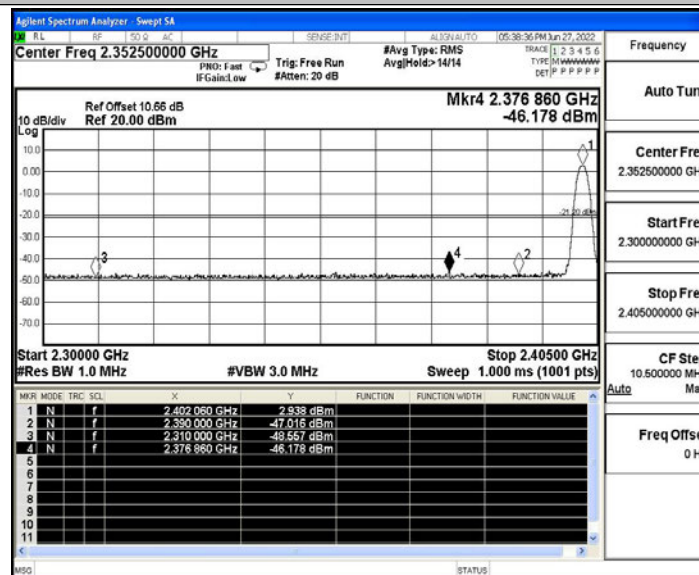


3DH5_Ant1_Low_2402_AV



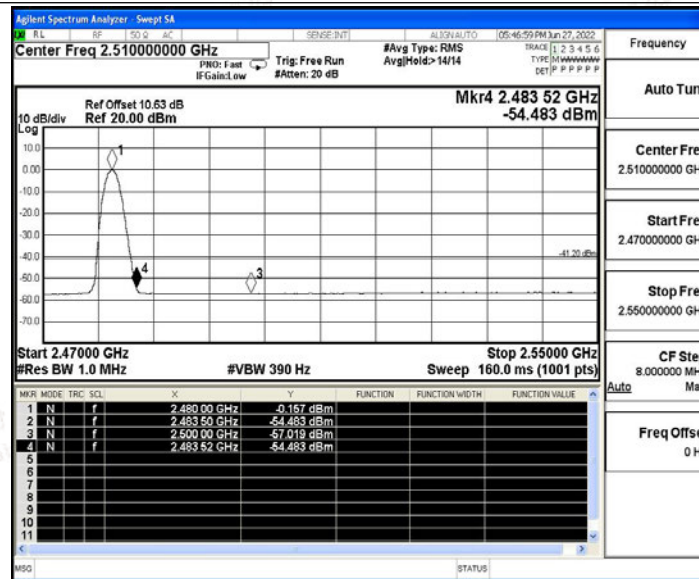


3DH5_Ant1_Low_2402_Peak

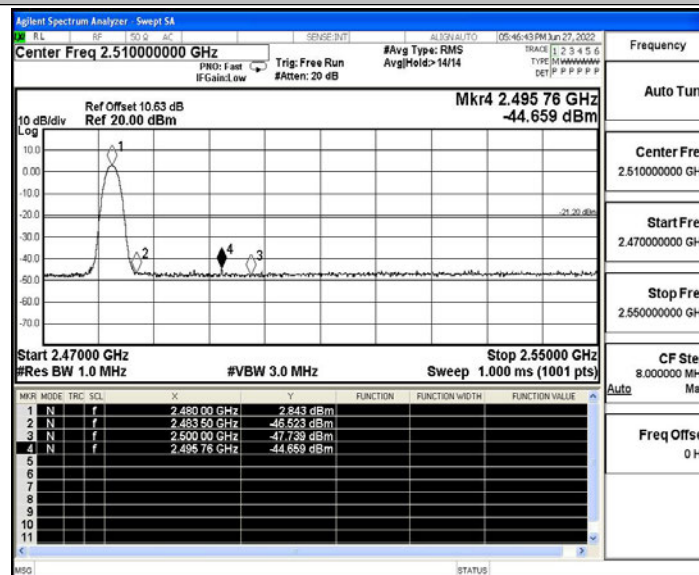


3DH5_Ant1_High_2480_AV



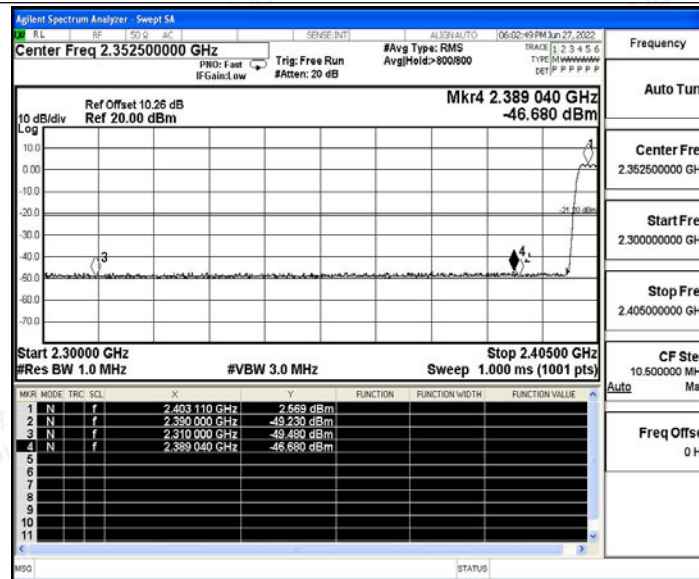


3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak





3DH5_Ant1_High_Hop_2480_Peak

