

Appendix A
RF Test Data for BT(BDR/EDR) (Conducted Measurement)
Product Name: 7-in IPS Touch Screen Wireless CarPlay
Trade Mark: N/A
Test Model: CP701S
FCC ID: 2A5PH-CP701S

Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

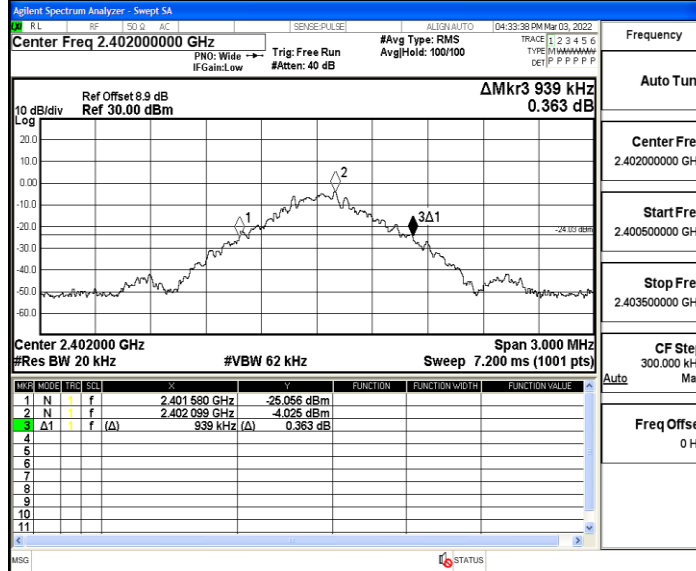
Appendix A: 20dB Emission Bandwidth

Test Result

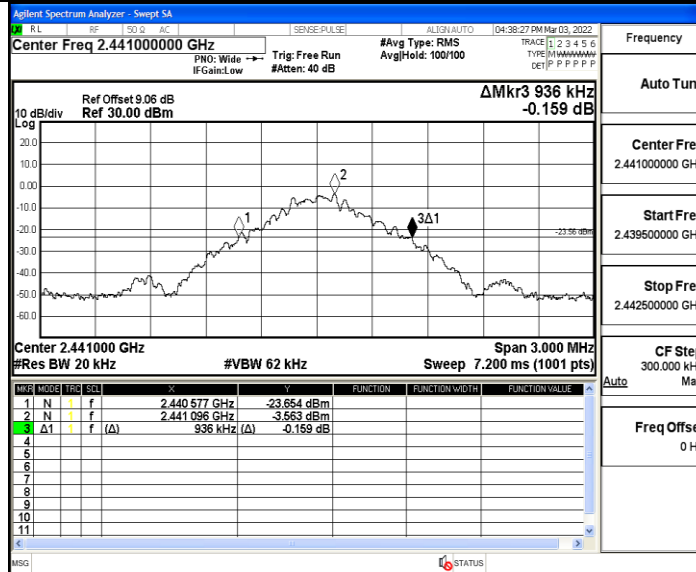
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant0	2402	0.939	2401.580	2402.519	---	PASS
		2441	0.936	2440.577	2441.513	---	PASS
		2480	0.942	2479.577	2480.519	---	PASS
2DH5	Ant0	2402	1.323	2401.376	2402.699	---	PASS
		2441	1.293	2440.379	2441.672	---	PASS
		2480	1.260	2479.406	2480.666	---	PASS

Test Graphs

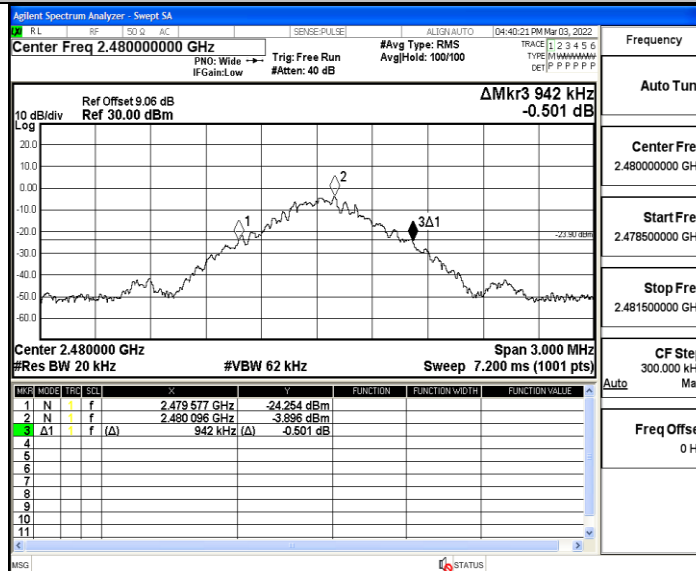
DH5_Ant0_2402



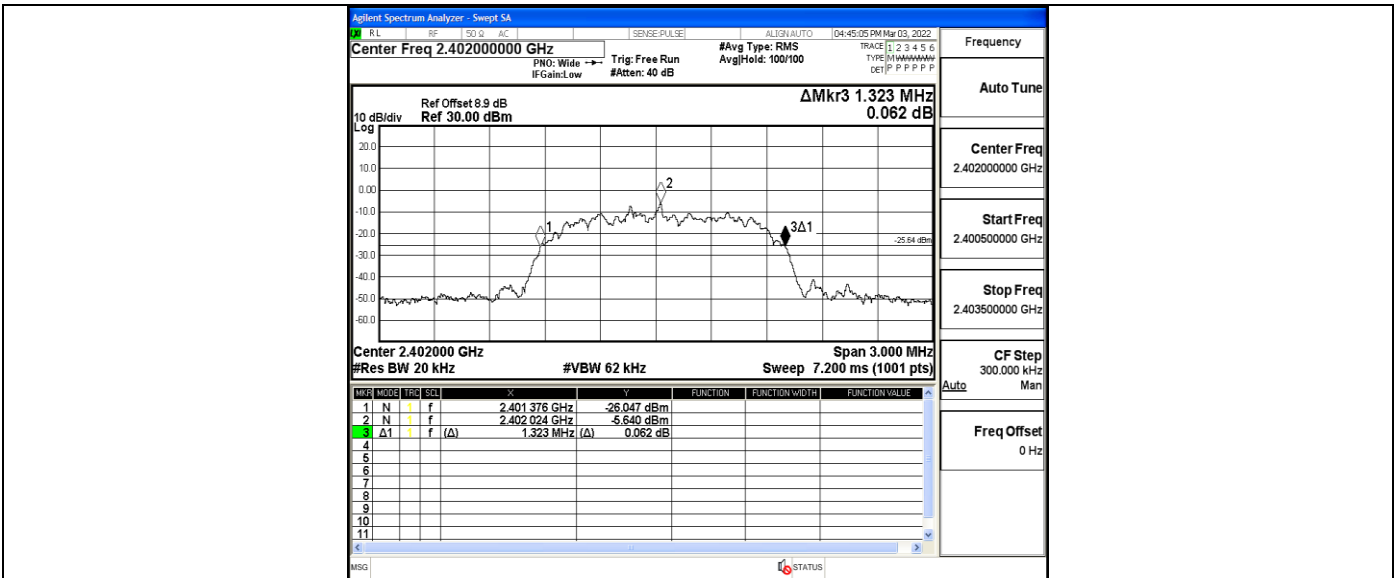
DH5_Ant0_2441



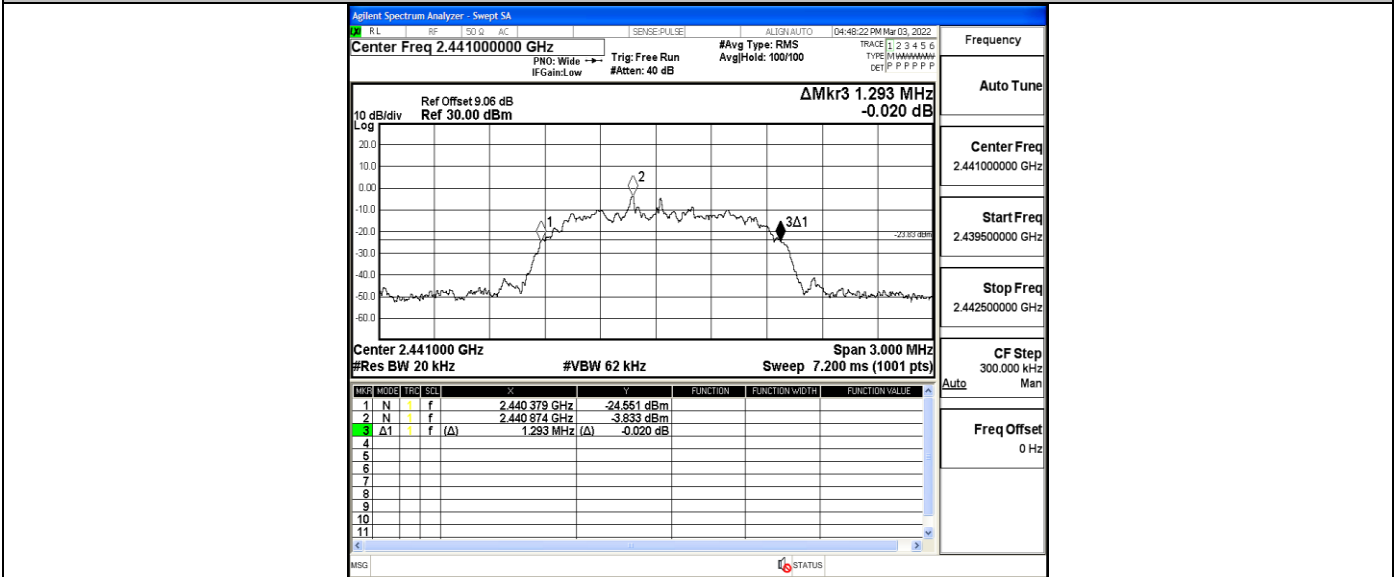
DH5_Ant0_2480



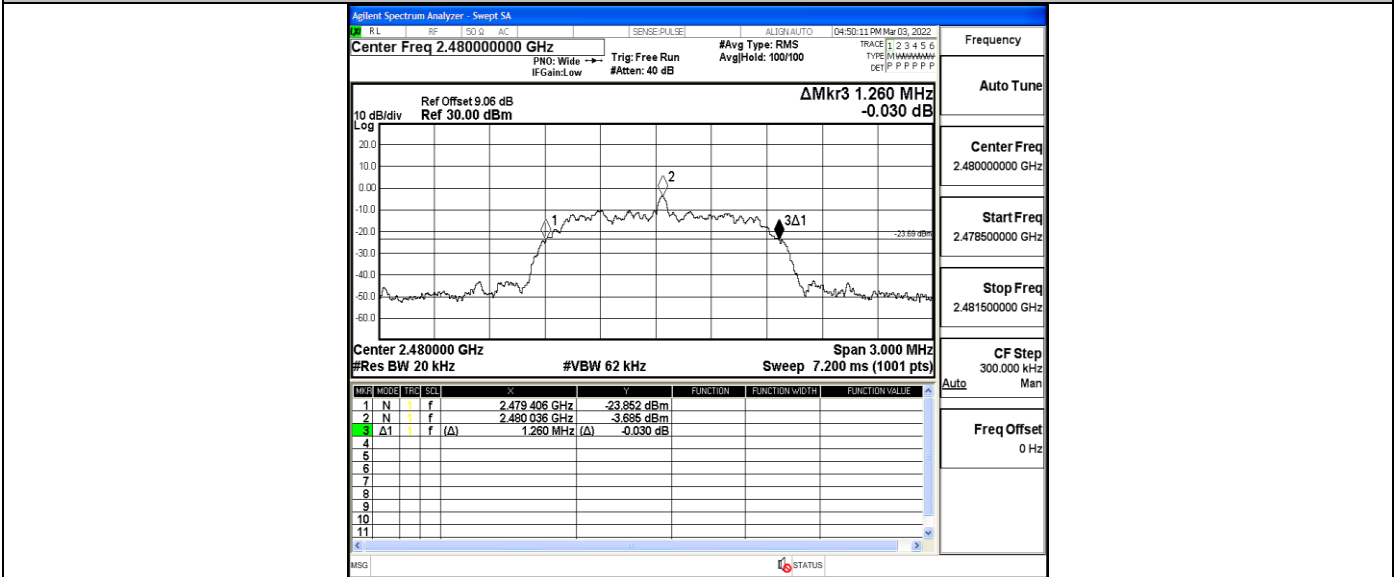
2DH5_Ant0_2402



2DH5_Ant0_2441



2DH5_Ant0_2480

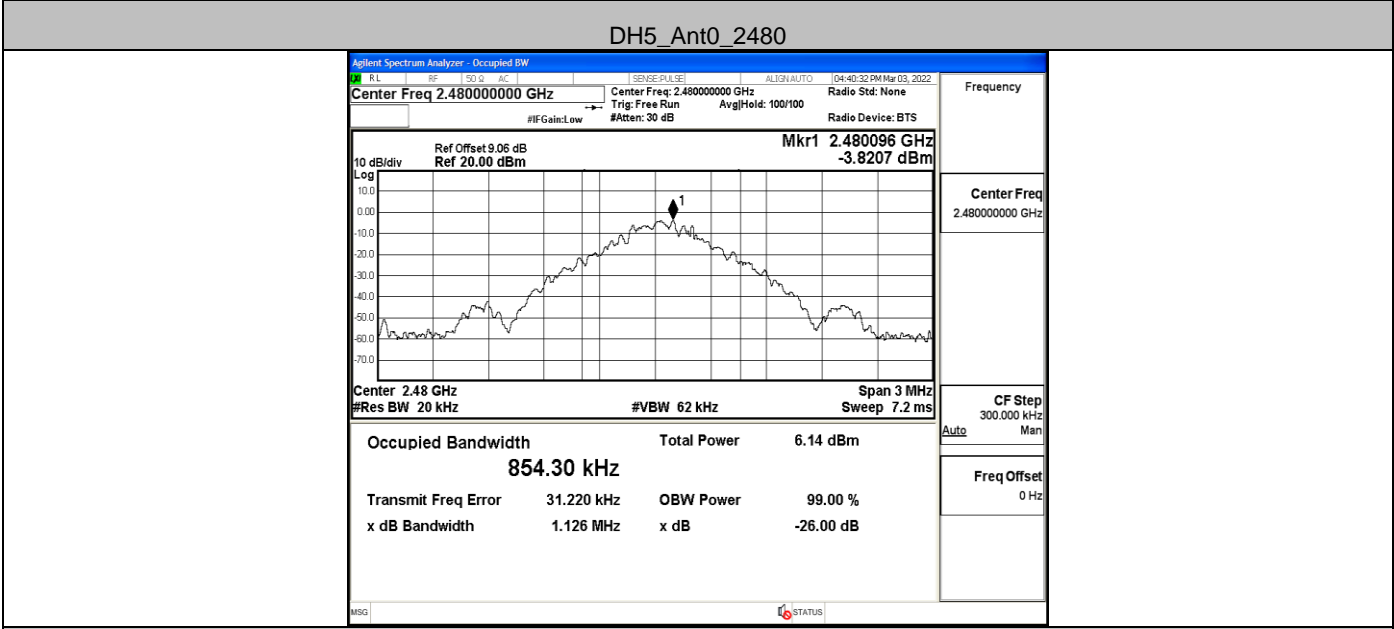
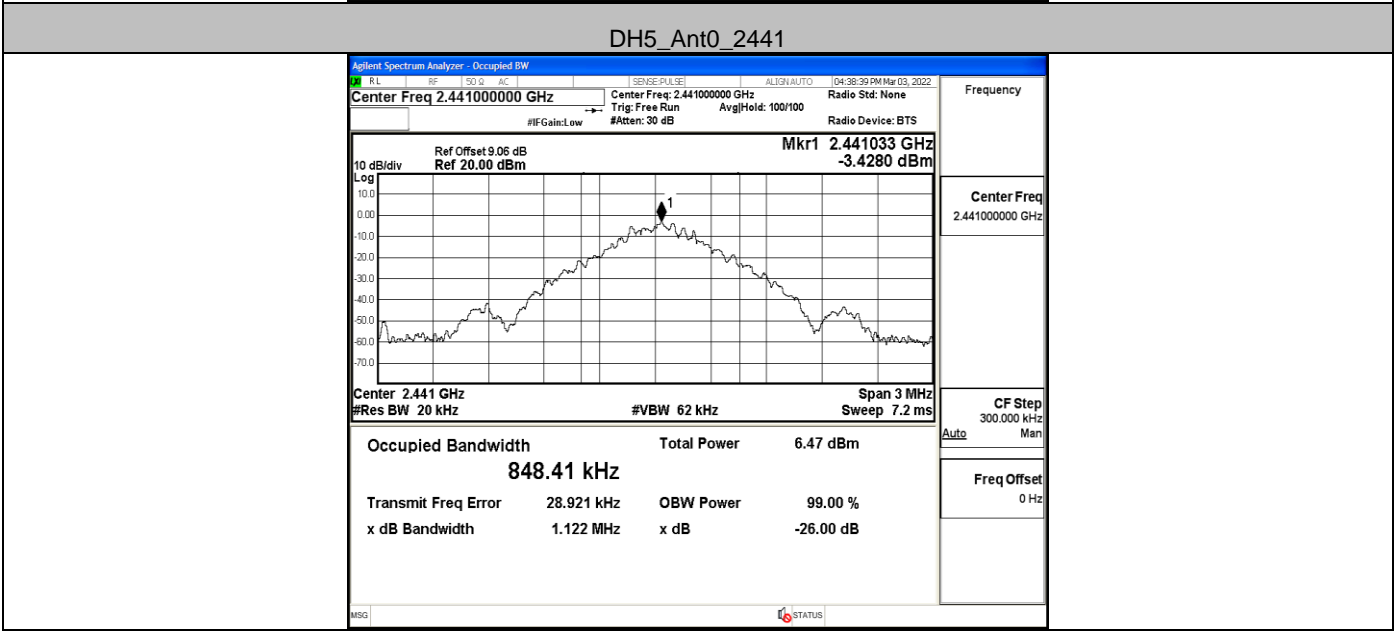
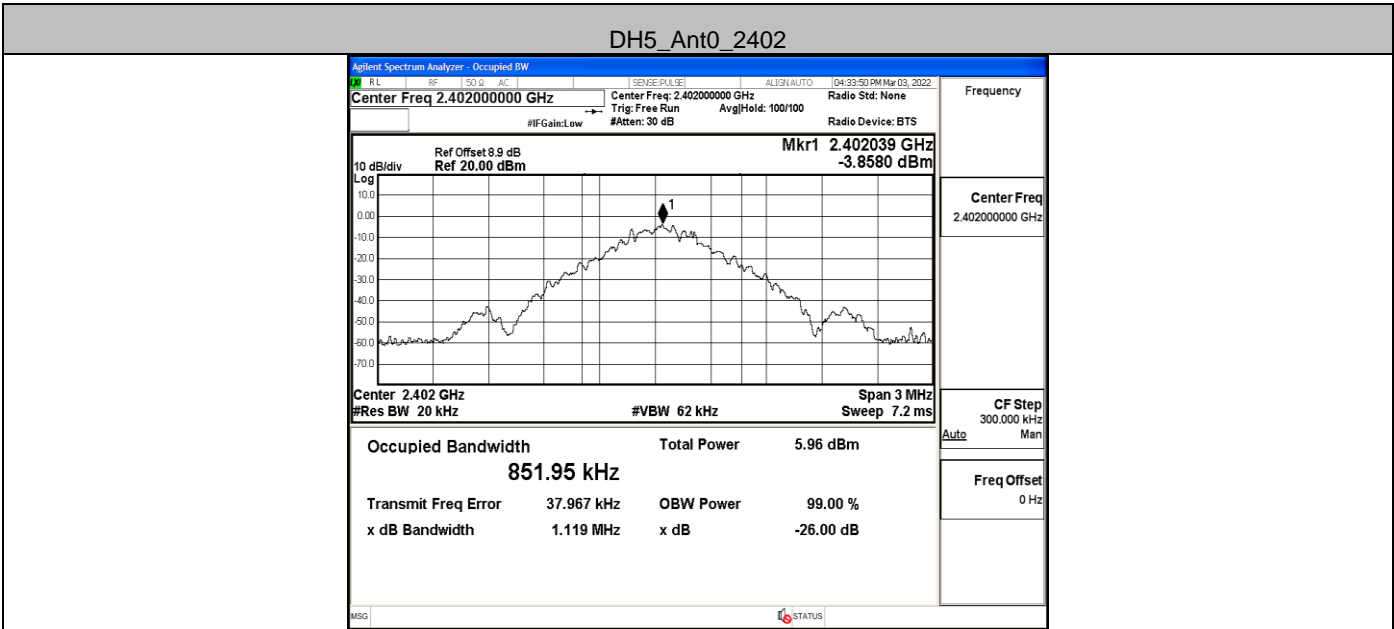


Appendix B: Occupied Channel Bandwidth

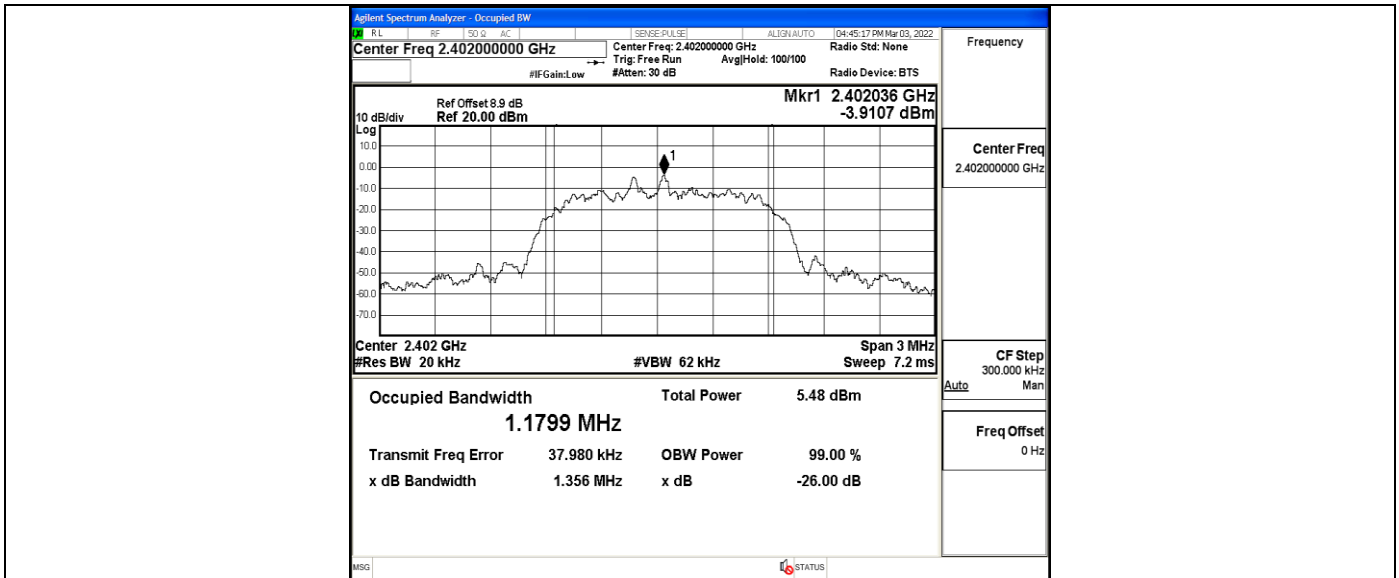
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant0	2402	0.85195	2401.612	2402.464	---	PASS
		2441	0.84841	2440.605	2441.453	---	PASS
		2480	0.85430	2479.604	2480.458	---	PASS
2DH5	Ant0	2402	1.1799	2401.448	2402.628	---	PASS
		2441	1.1948	2440.439	2441.634	---	PASS
		2480	1.1825	2479.445	2480.627	---	PASS

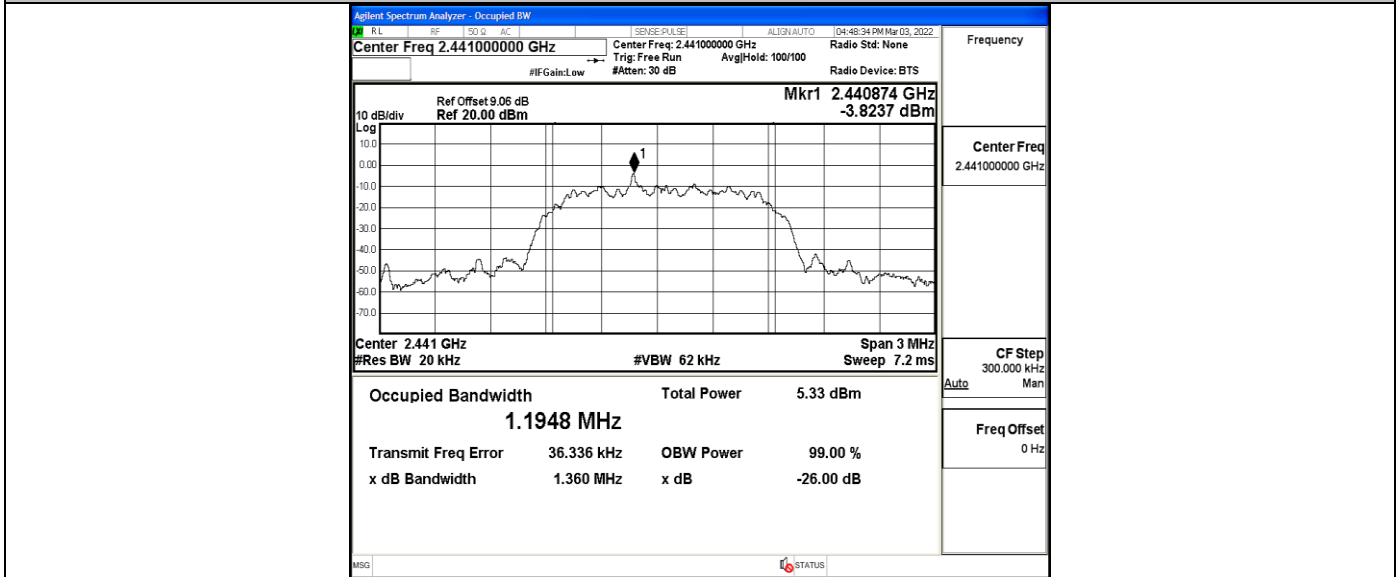
Test Graphs



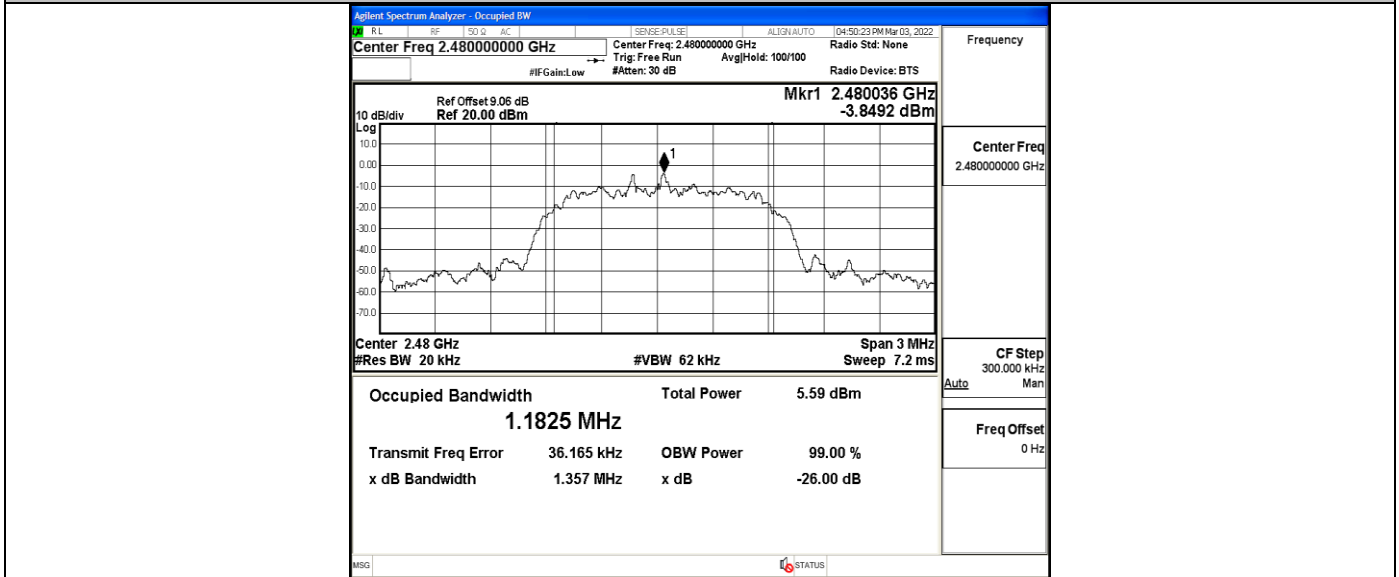
2DH5_Ant0_2402



2DH5_Ant0_2441



2DH5_Ant0_2480

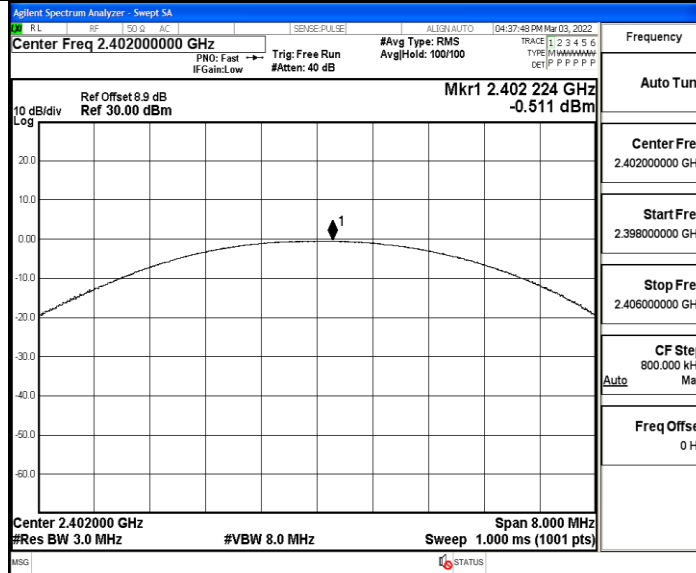


Appendix C: Maximum conducted output power**Test Result**

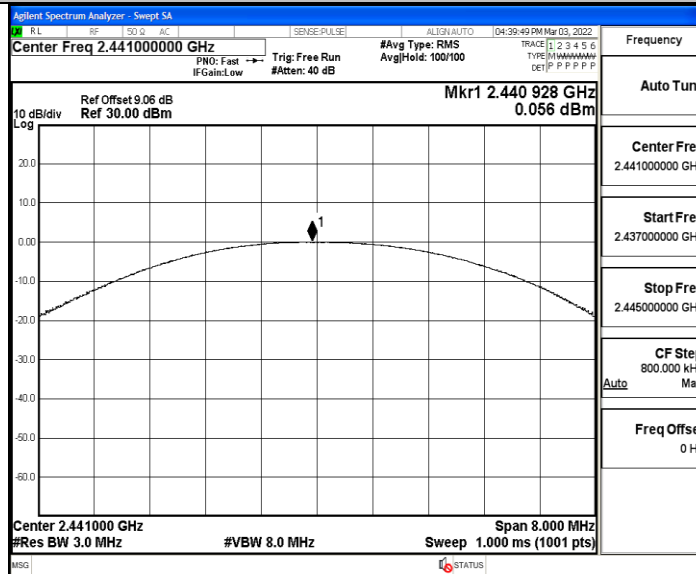
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant0	2402	-0.51	<=30.00	PASS
		2441	0.06	<=30.00	PASS
		2480	-0.21	<=30.00	PASS
2DH5	Ant0	2402	0.29	<=20.97	PASS
		2441	0.82	<=20.97	PASS
		2480	0.45	<=20.97	PASS

Test Graphs

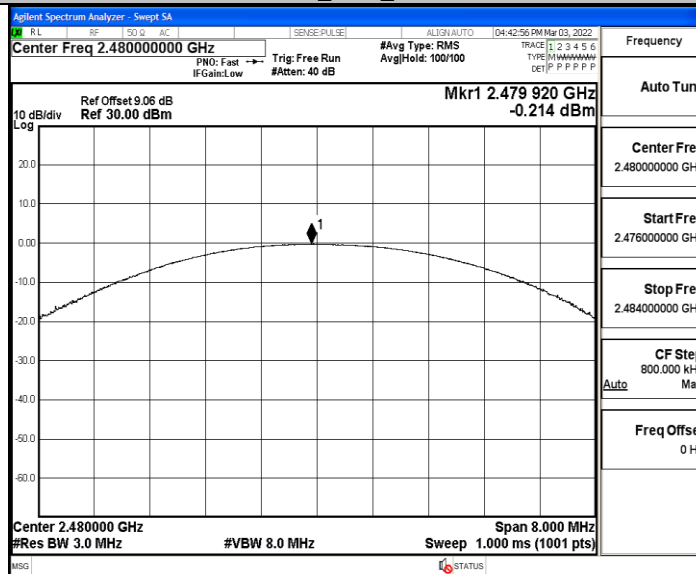
DH5_Ant0_2402

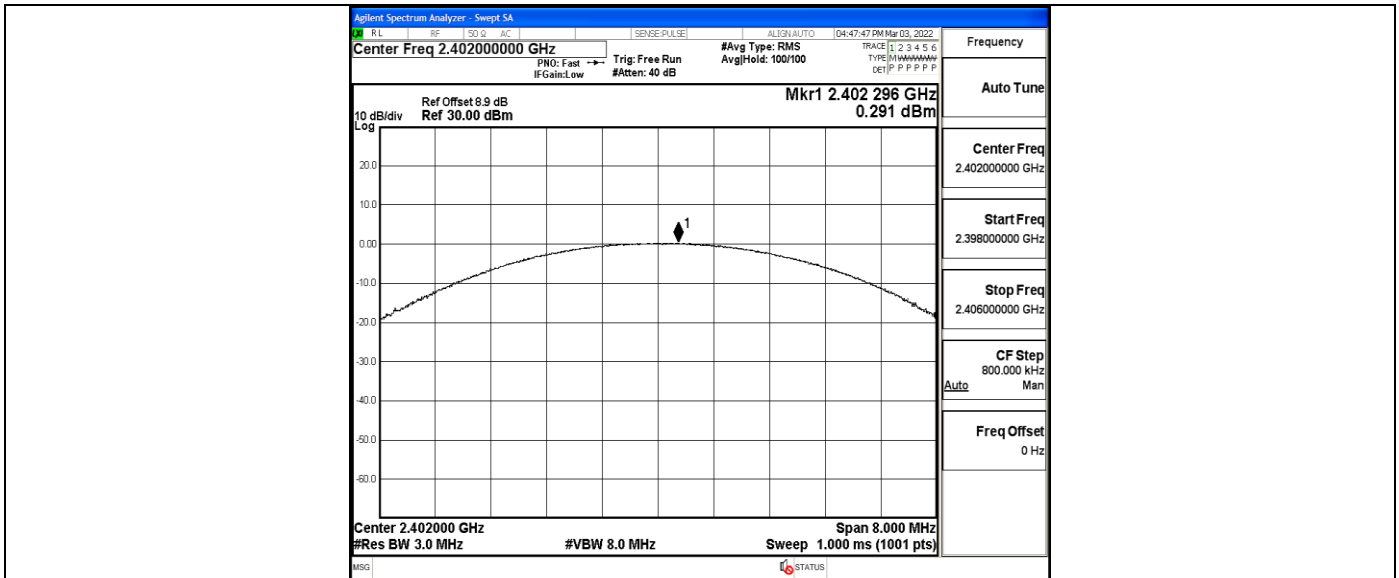


DH5_Ant0_2441

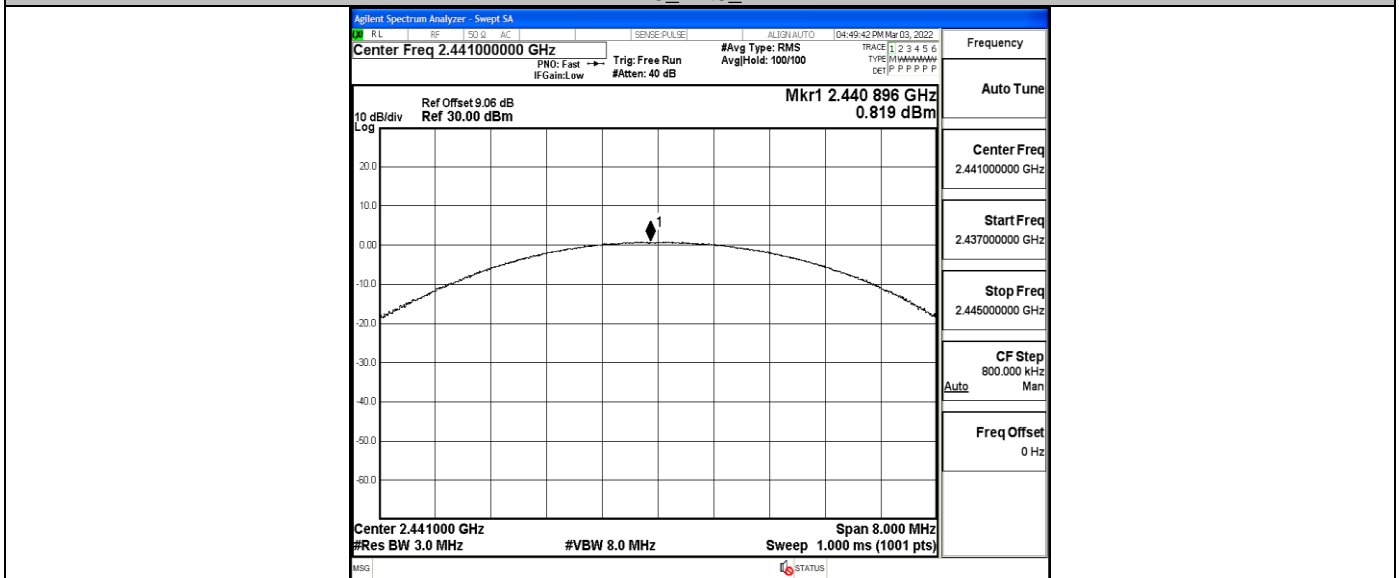


DH5_Ant0_2480

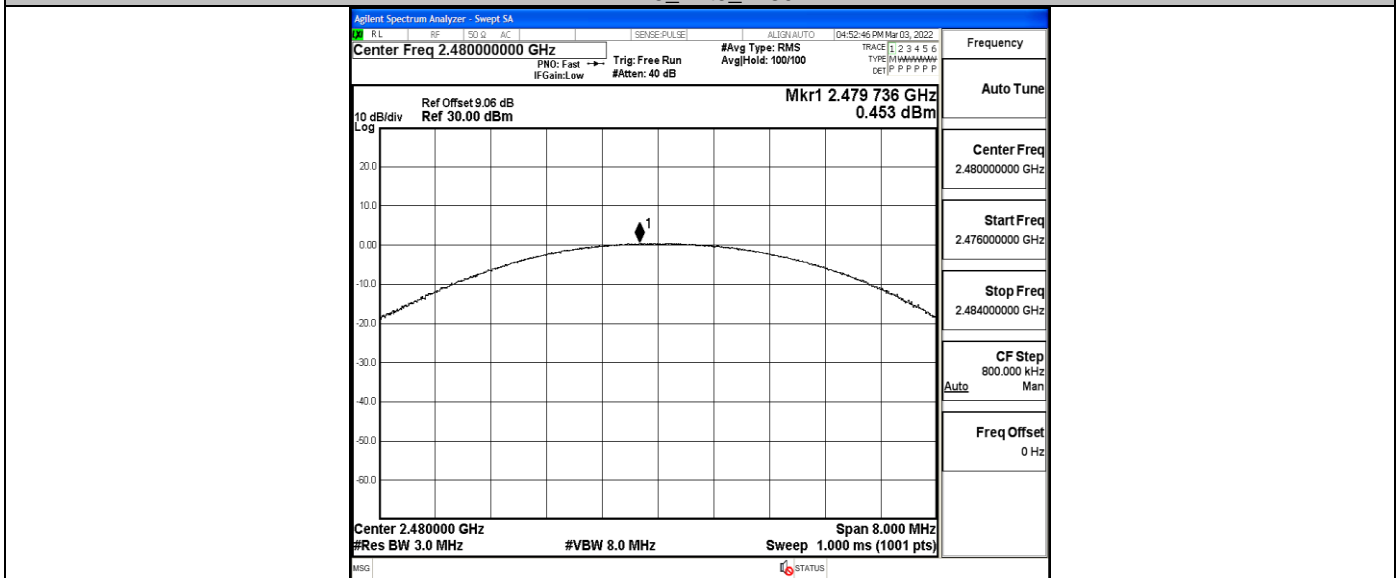




2DH5_Ant0_2441



2DH5_Ant0_2480

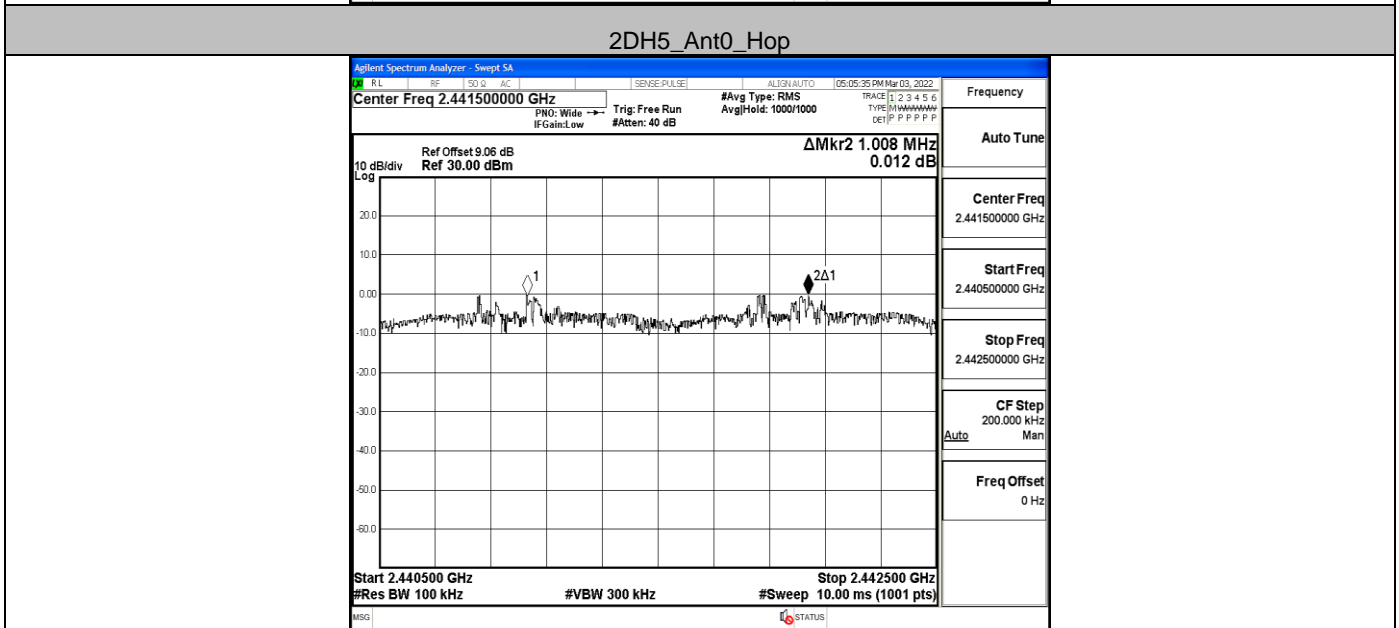
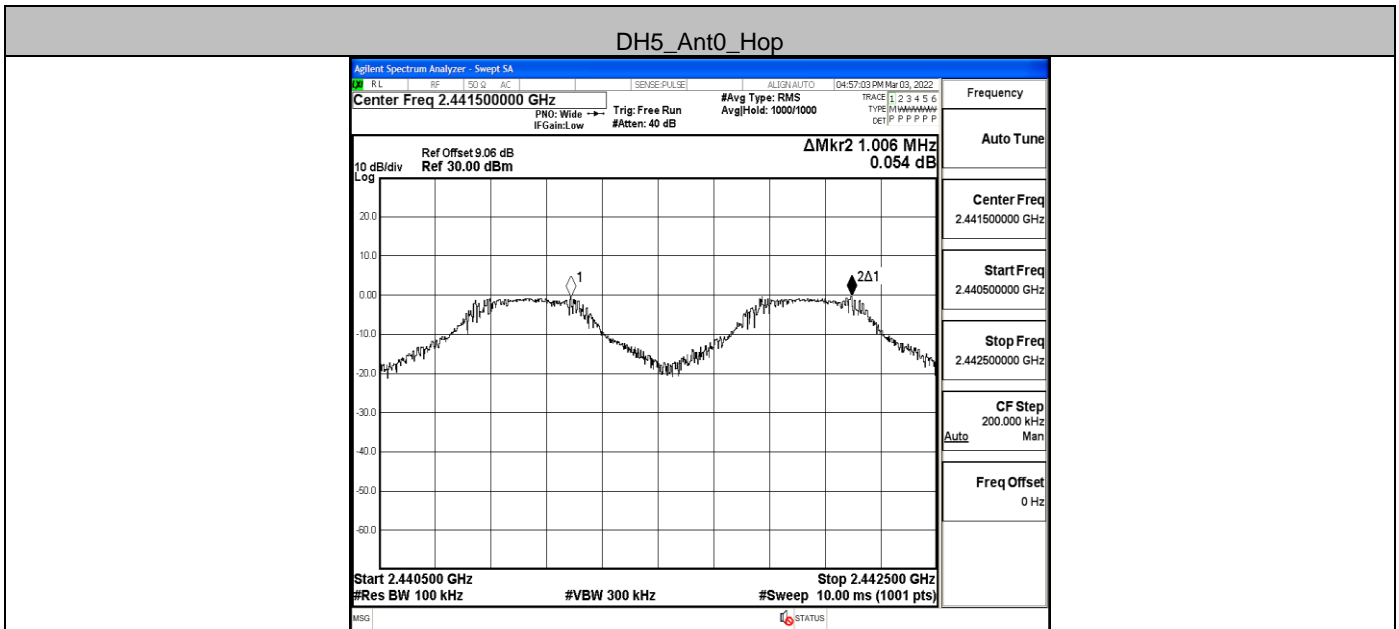


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant0	Hop	1.006	≥ 0.942	PASS
2DH5	Ant0	Hop	1.008	≥ 0.882	PASS

Test Graphs

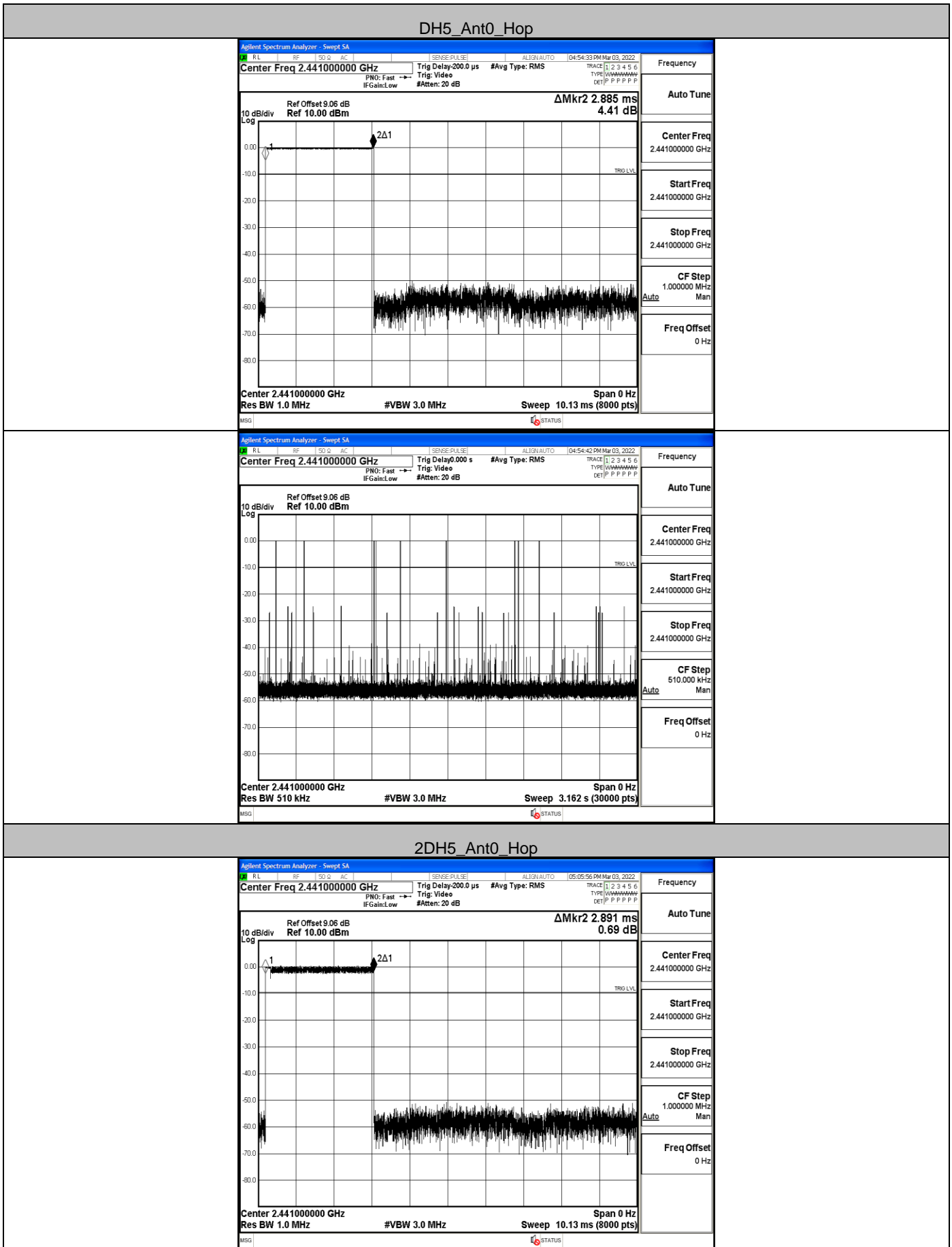


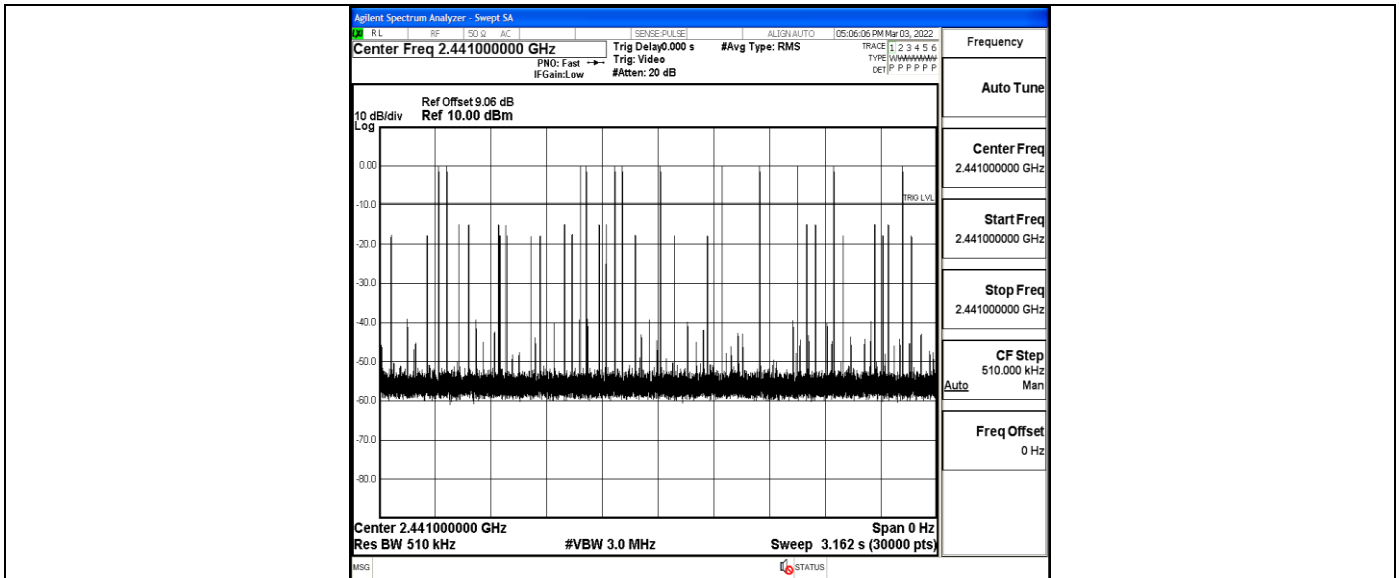
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant0	Hop	2.89	100	0.289	<=0.4	PASS
2DH5	Ant0	Hop	2.89	130	0.376	<=0.4	PASS

Test Graphs



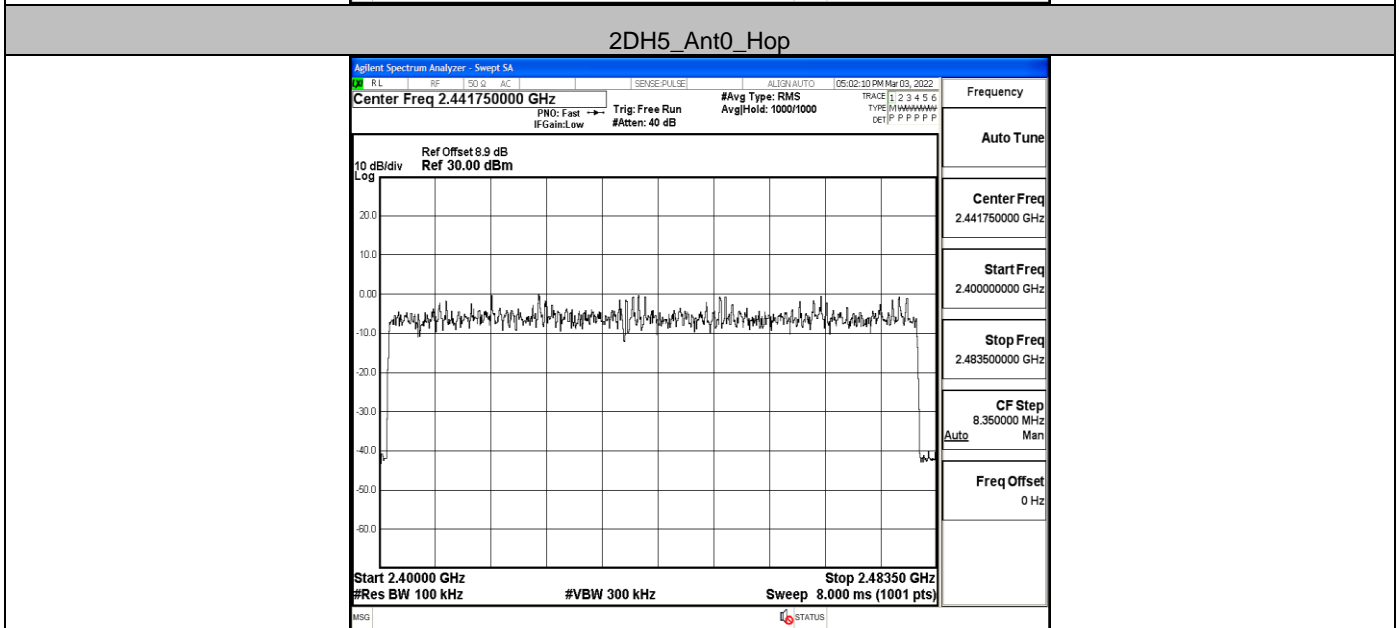
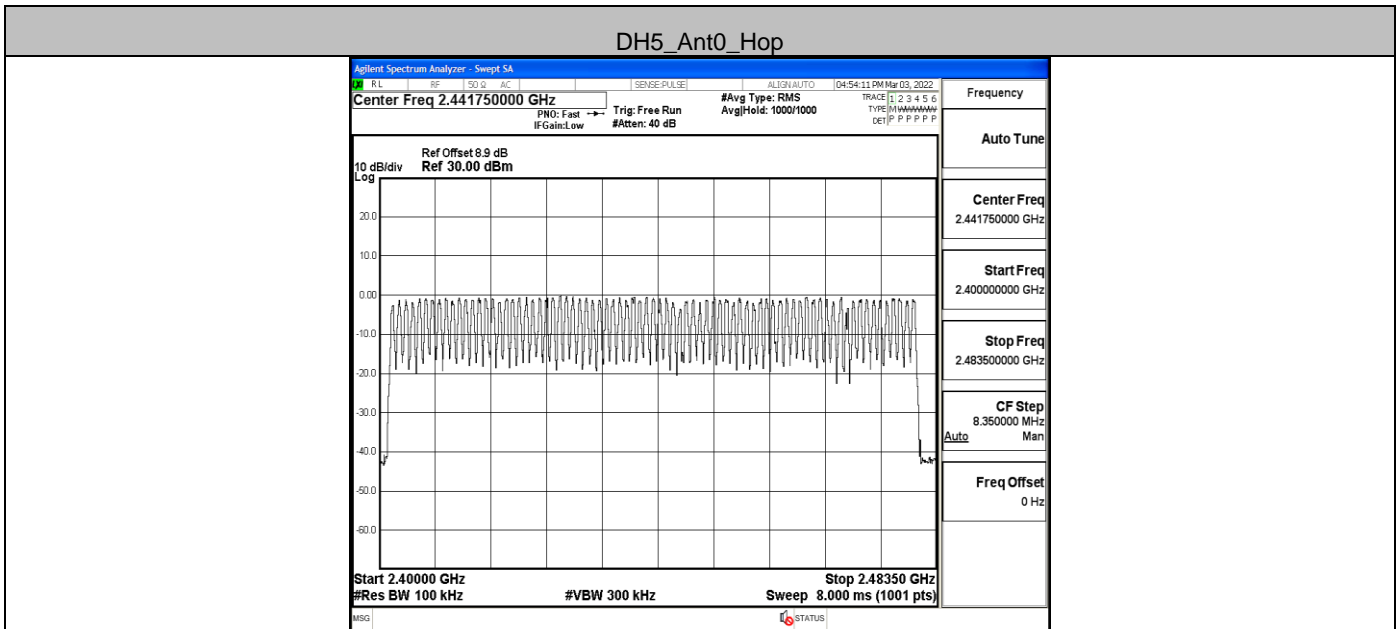


Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant0	Hop	79	≥ 15	PASS
2DH5	Ant0	Hop	79	≥ 15	PASS

Test Graphs



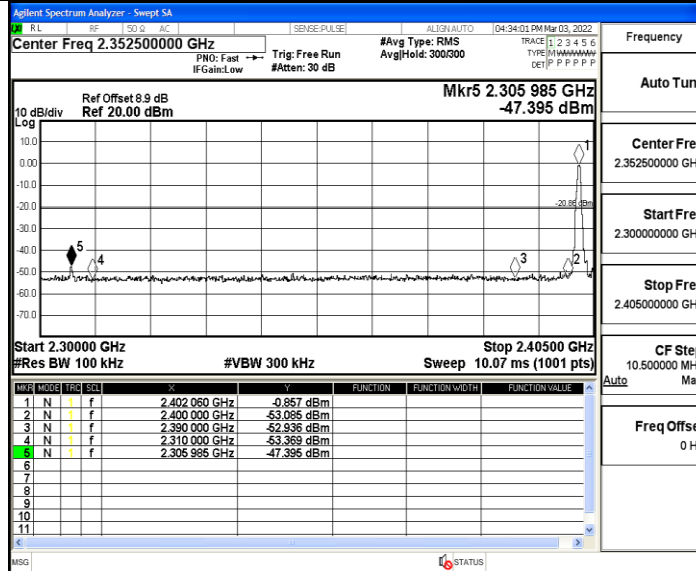
Appendix G: Band edge measurements

Test Result

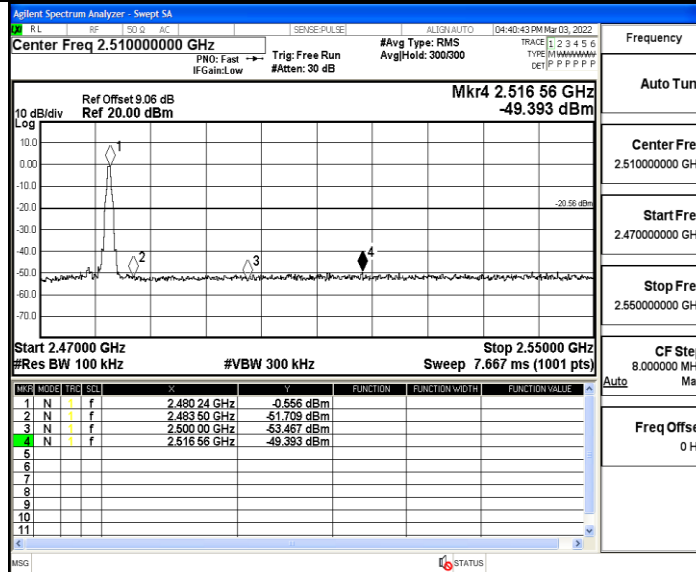
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant0	Low	2402	-0.86	-47.4	≤-20.86	PASS
		High	2480	-0.56	-49.39	≤-20.56	PASS
		Low	Hop_2402	-1.56	-47.72	≤-21.56	PASS
		High	Hop_2480	-0.51	-47.27	≤-20.51	PASS
2DH5	Ant0	Low	2402	-0.79	-48.78	≤-20.79	PASS
		High	2480	-0.64	-48.52	≤-20.64	PASS
		Low	Hop_2402	-2.75	-48.27	≤-22.75	PASS
		High	Hop_2480	-2.62	-47.87	≤-22.62	PASS

Test Graphs

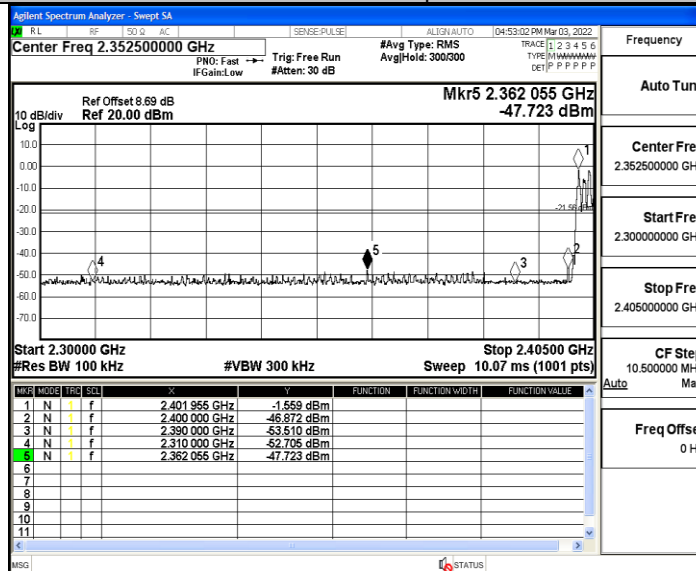
DH5_Ant0_Low_2402



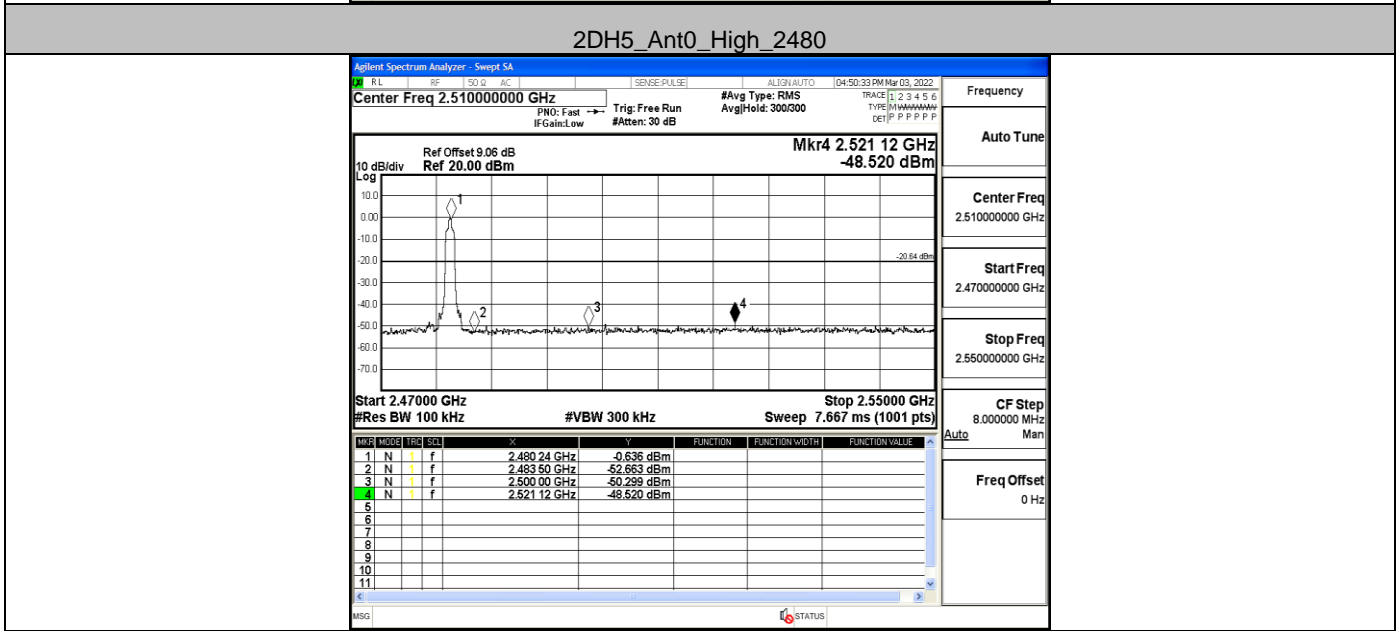
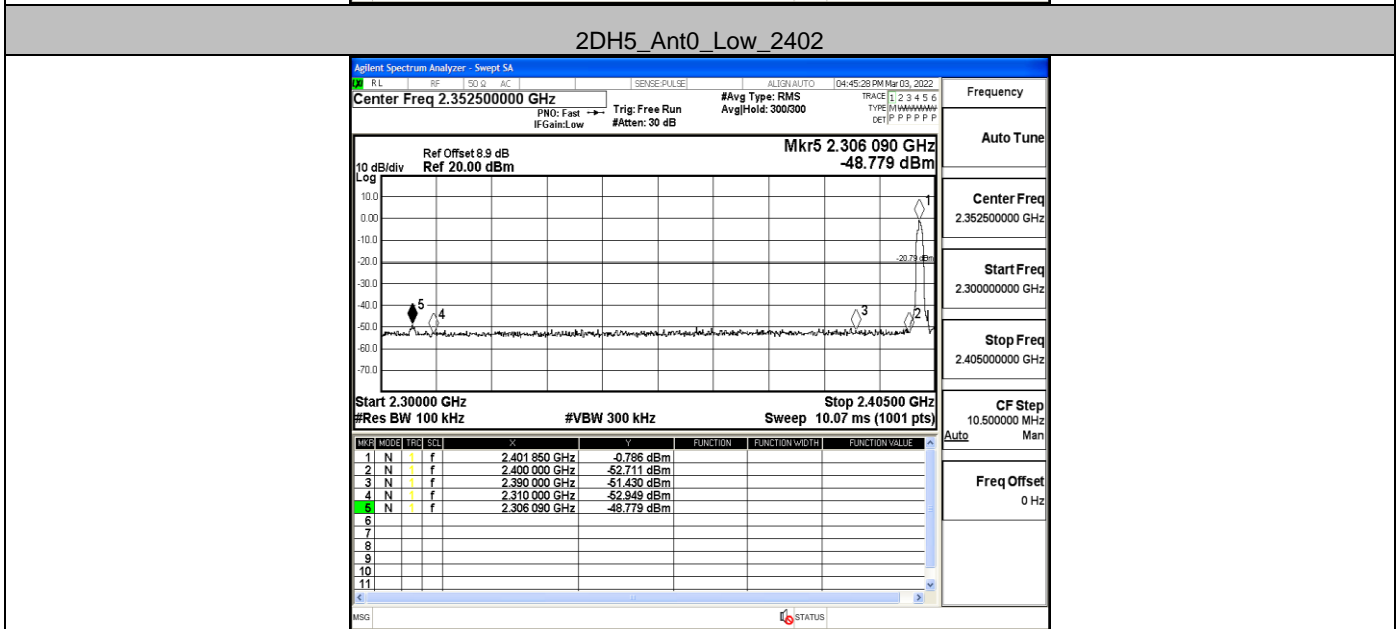
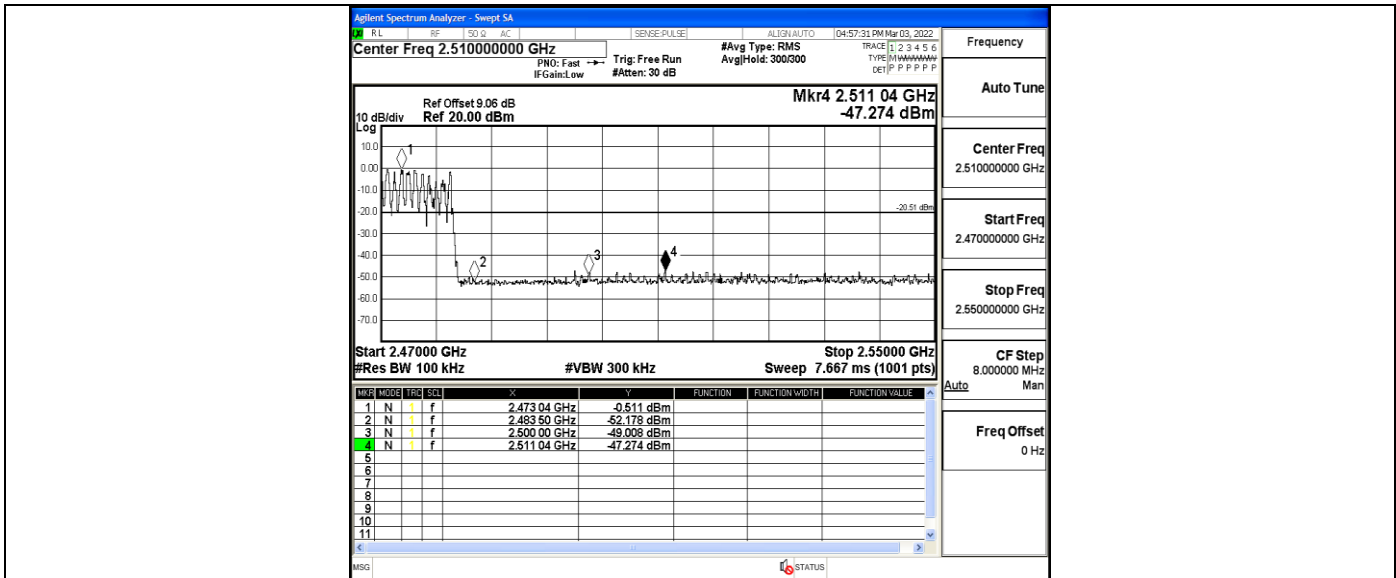
DH5_Ant0_High_2480

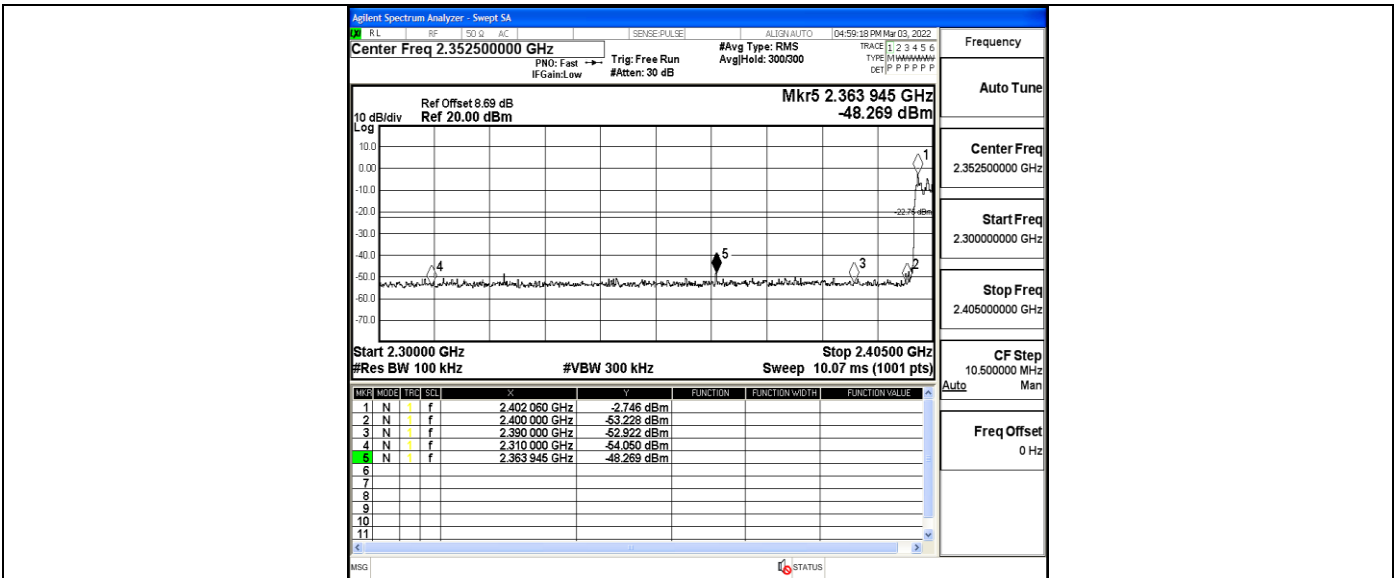


DH5_Ant0_Low_Hop_2402

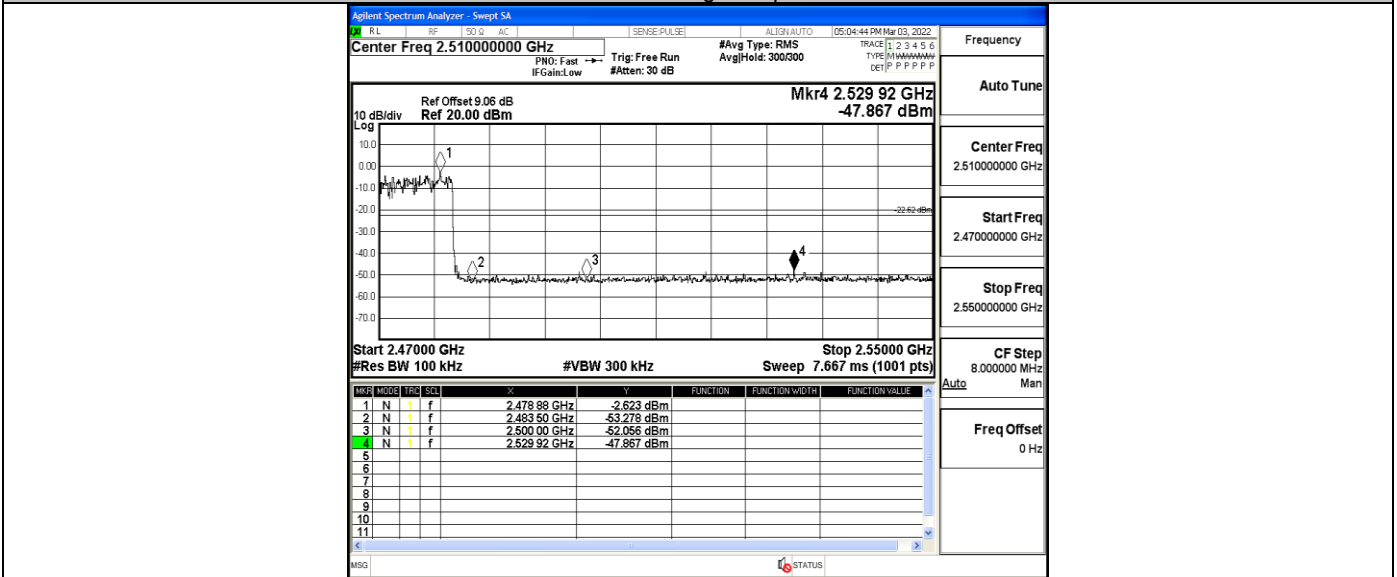


DH5_Ant0_High_Hop_2480





2DH5_Ant0_High_Hop_2480



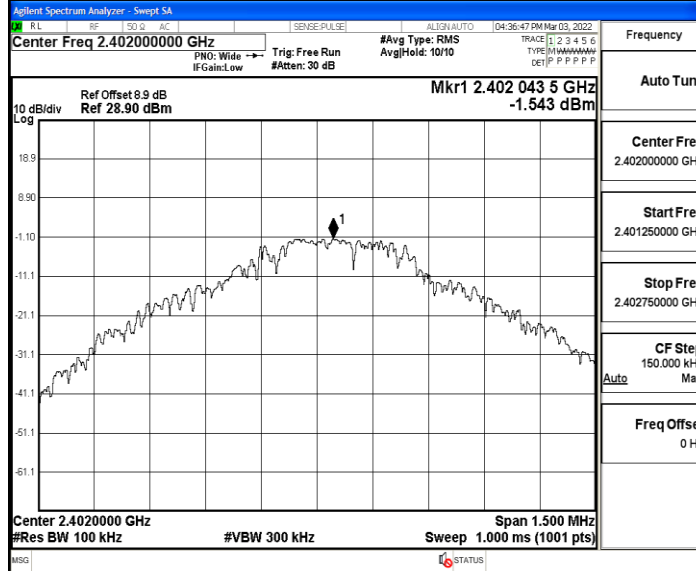
Appendix H: Conducted Spurious Emission

Test Result

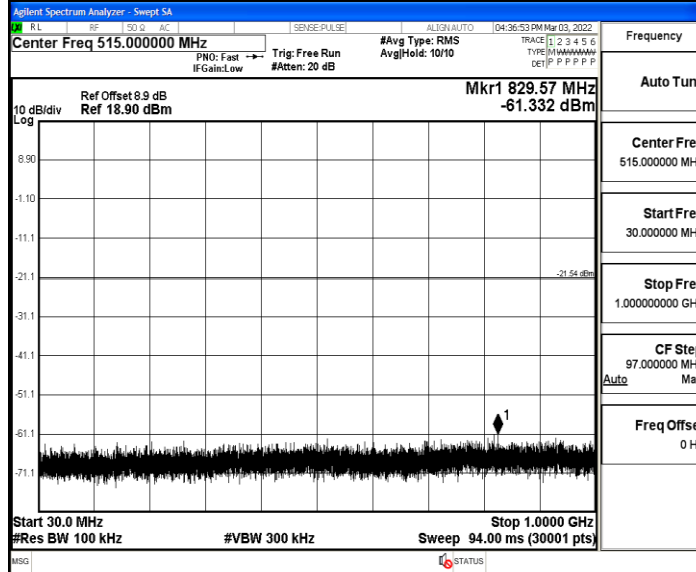
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant0	2402	Reference	-1.54	-1.54	---	PASS
			30~1000	-1.54	-61.33	≤-21.54	PASS
			1000~26500	-1.54	-47.73	≤-21.54	PASS
		2441	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-59.65	≤-21.16	PASS
			1000~26500	-1.16	-49.91	≤-21.16	PASS
		2480	Reference	-1.31	-1.31	---	PASS
			30~1000	-1.31	-61.57	≤-21.31	PASS
			1000~26500	-1.31	-47.97	≤-21.31	PASS
2DH5	Ant0	2402	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-61.44	≤-21.09	PASS
			1000~26500	-1.09	-50.63	≤-21.09	PASS
		2441	Reference	-2.01	-2.01	---	PASS
			30~1000	-2.01	-60.02	≤-22.01	PASS
			1000~26500	-2.01	-52.05	≤-22.01	PASS
		2480	Reference	-3.95	-3.95	---	PASS
			30~1000	-3.95	-61.1	≤-23.95	PASS
			1000~26500	-3.95	-50.33	≤-23.95	PASS

Test Graphs

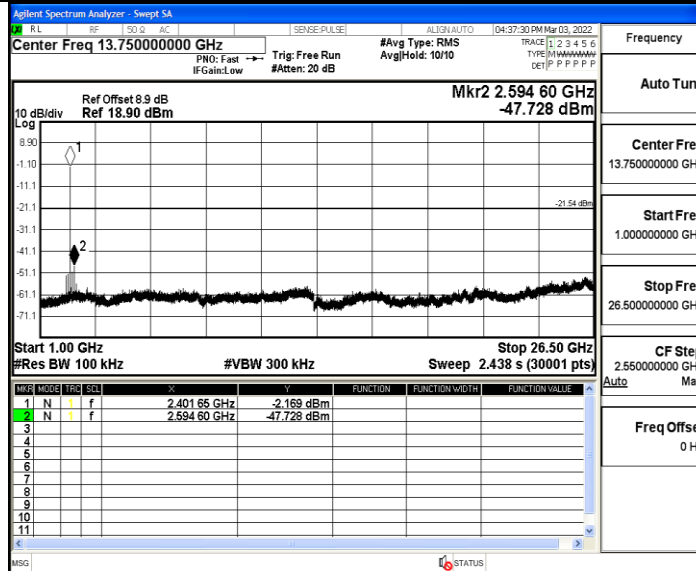
DH5_Ant0_2402_0~Reference



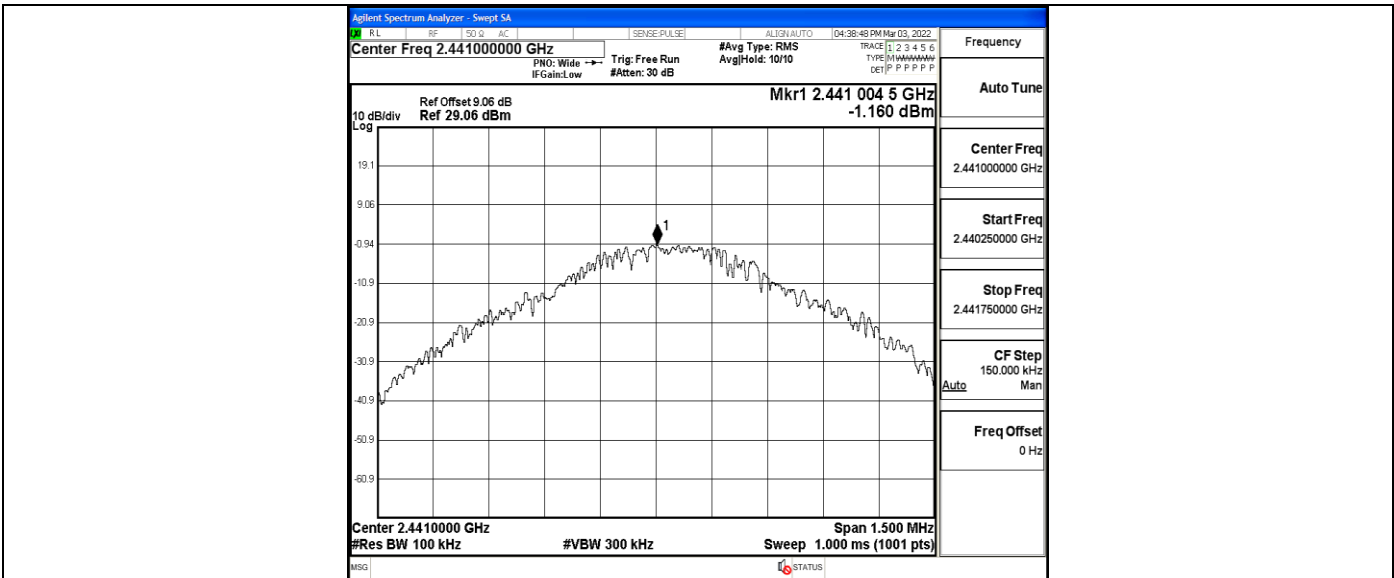
DH5_Ant0_2402_30~1000



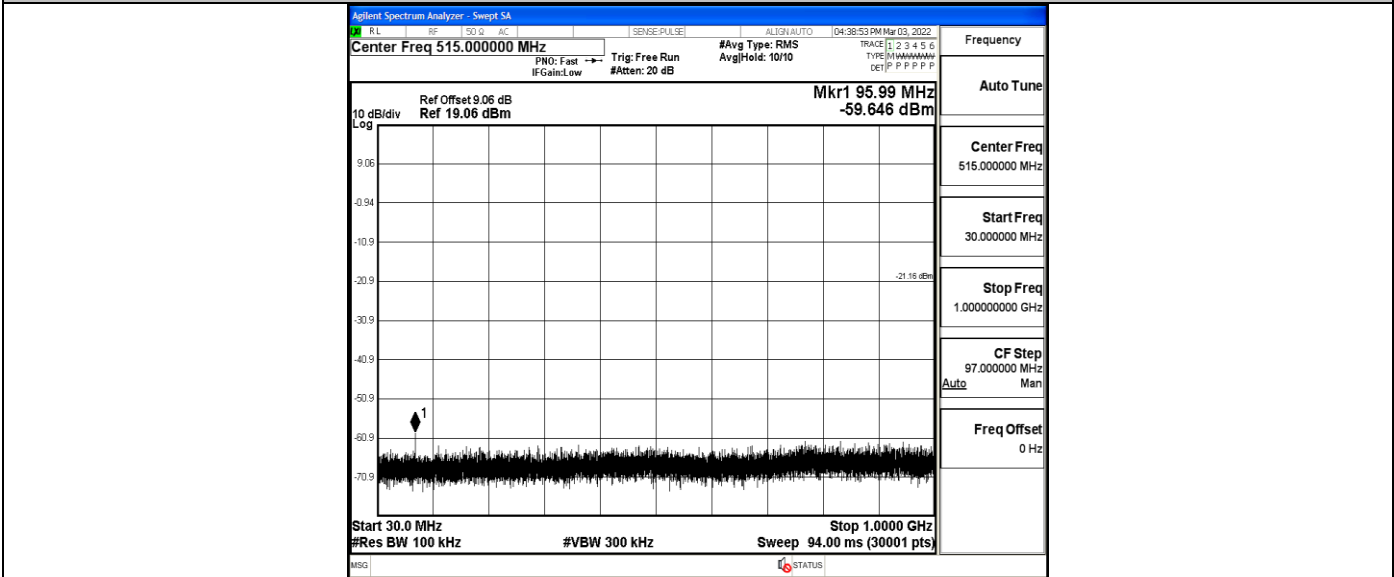
DH5_Ant0_2402_1000~26500



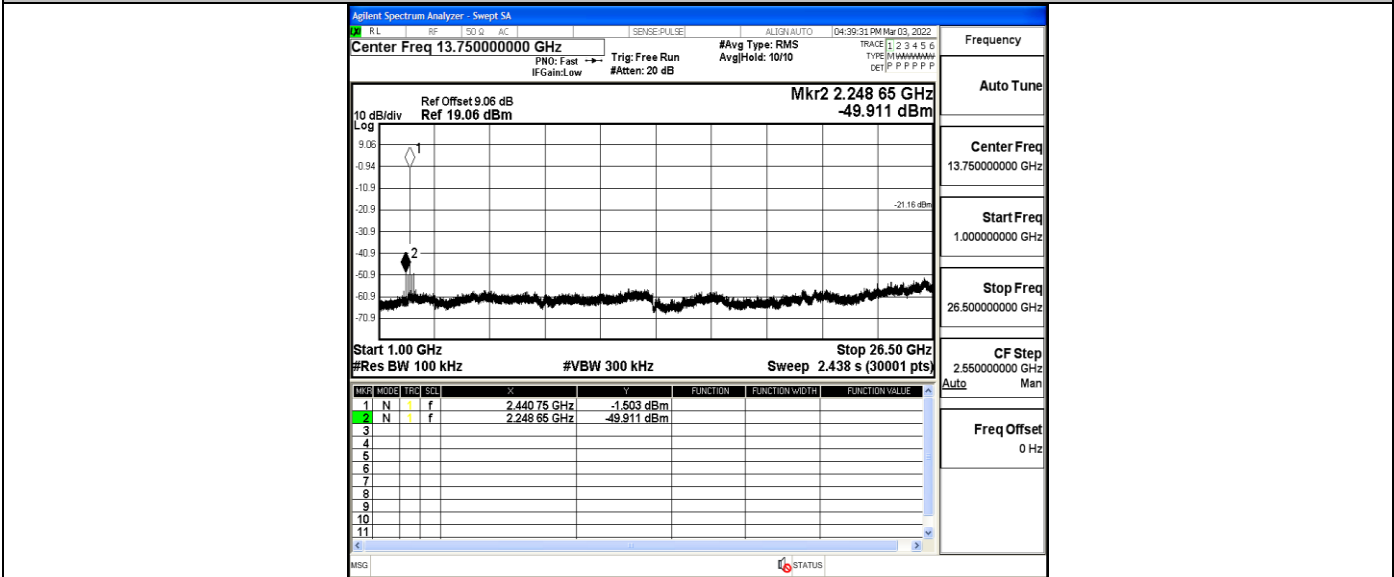
DH5_Ant0_2441_0~Reference



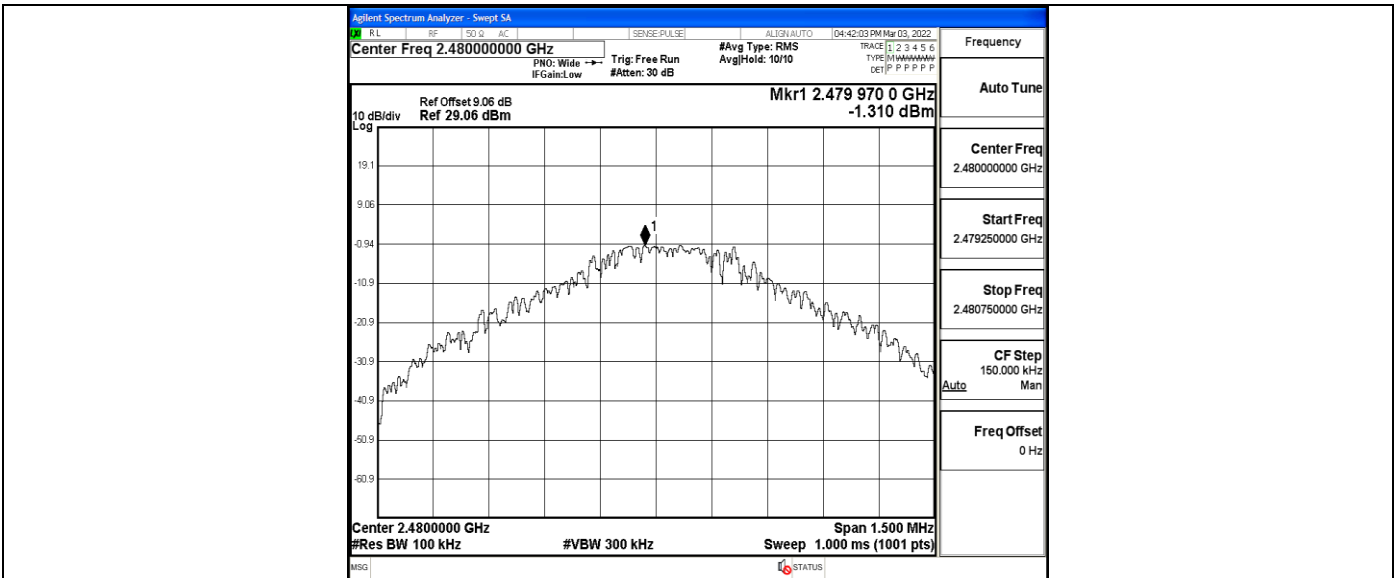
DH5_Ant0_2441_30~1000



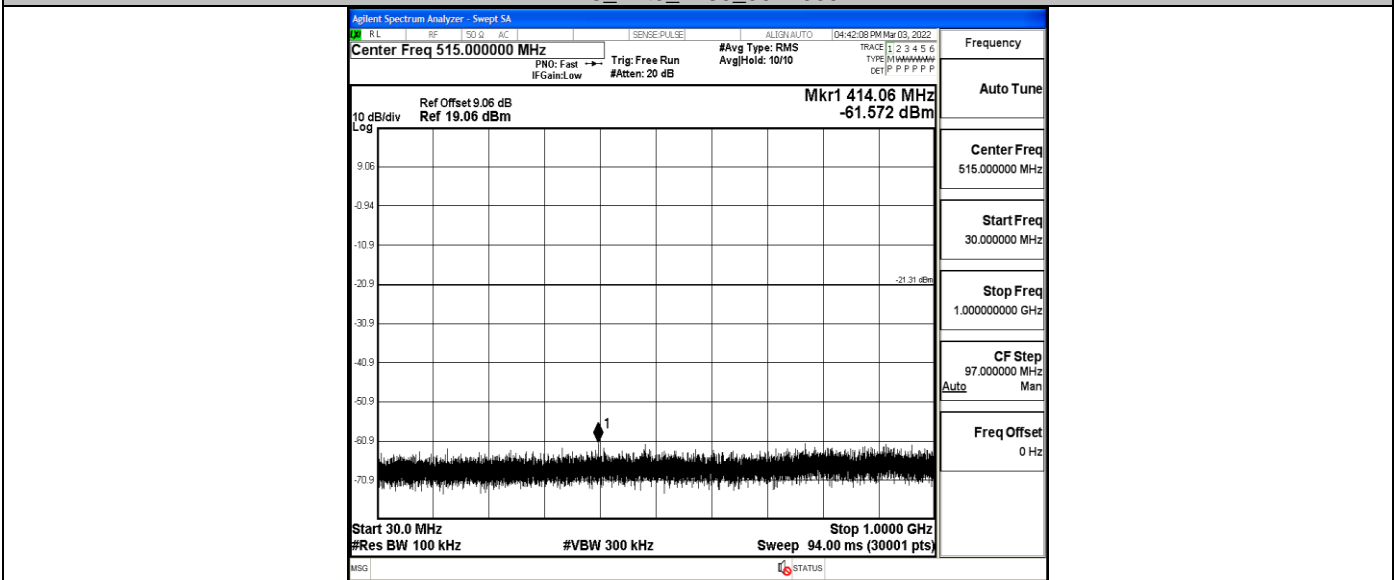
DH5_Ant0_2441_1000~26500



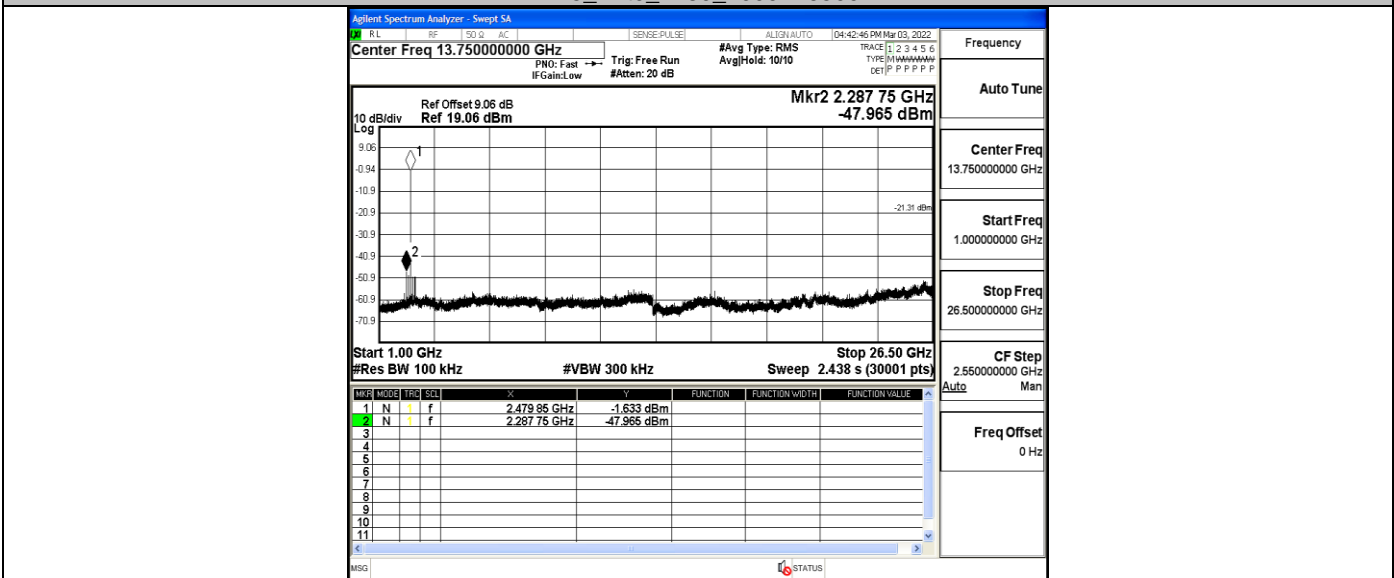
DH5_Ant0_2480_0-Reference



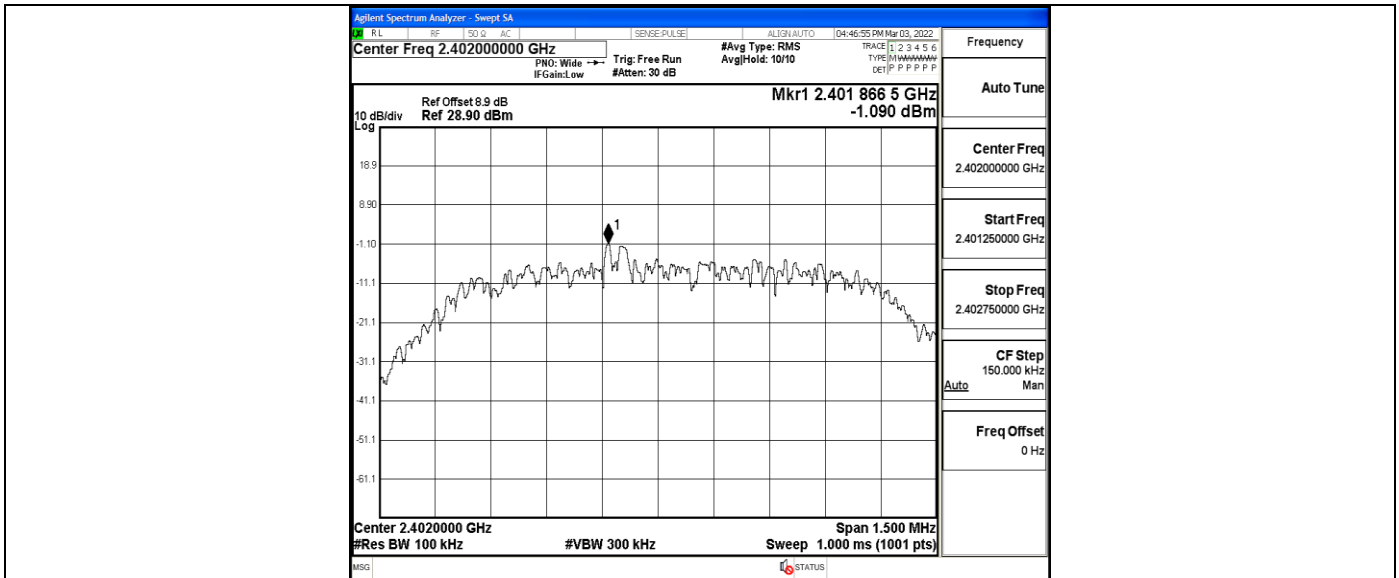
DH5_Ant0_2480_30~1000



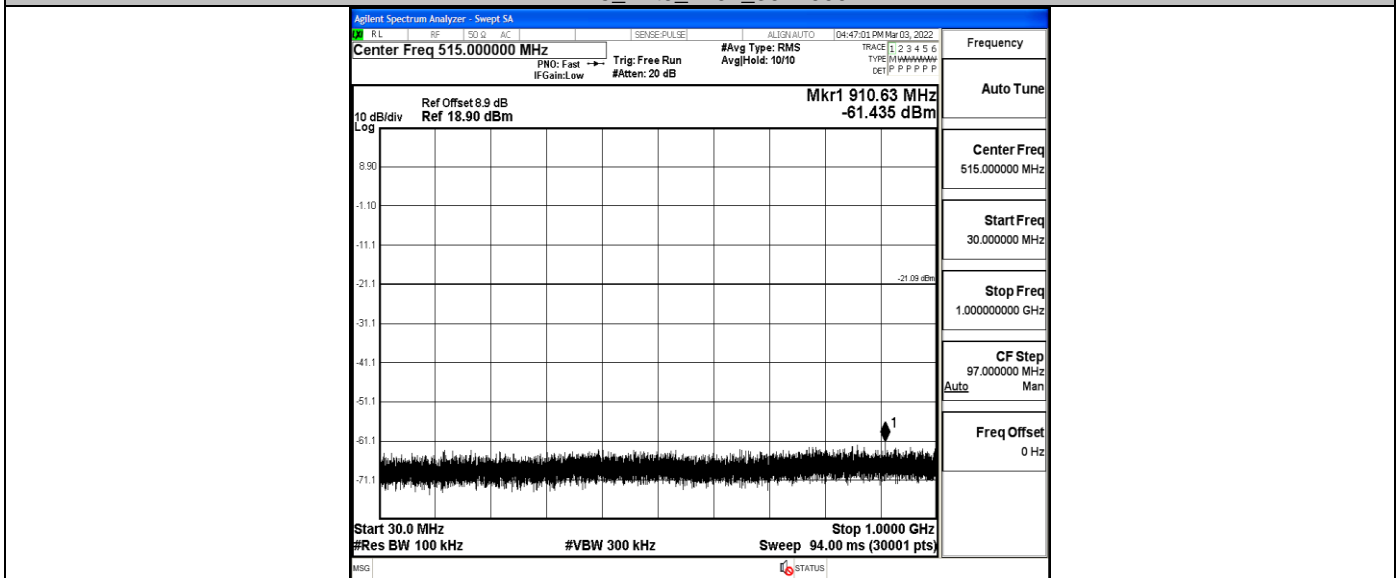
DH5_Ant0_2480_1000~26500



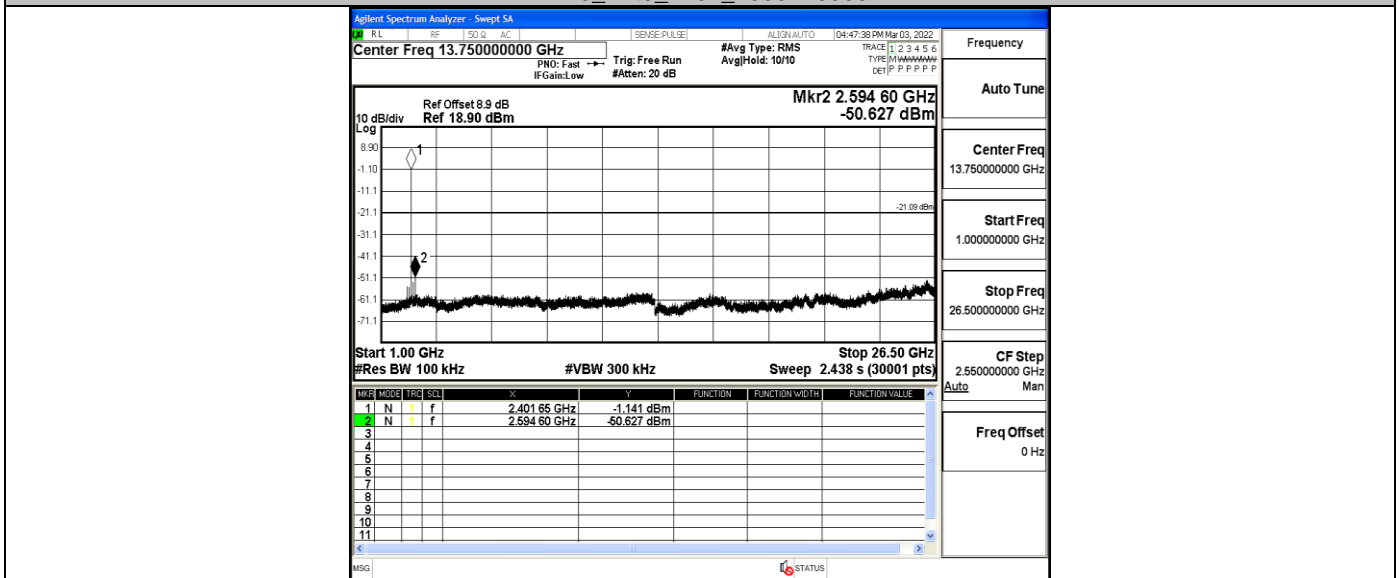
2DH5_Ant0_2402_0~Reference



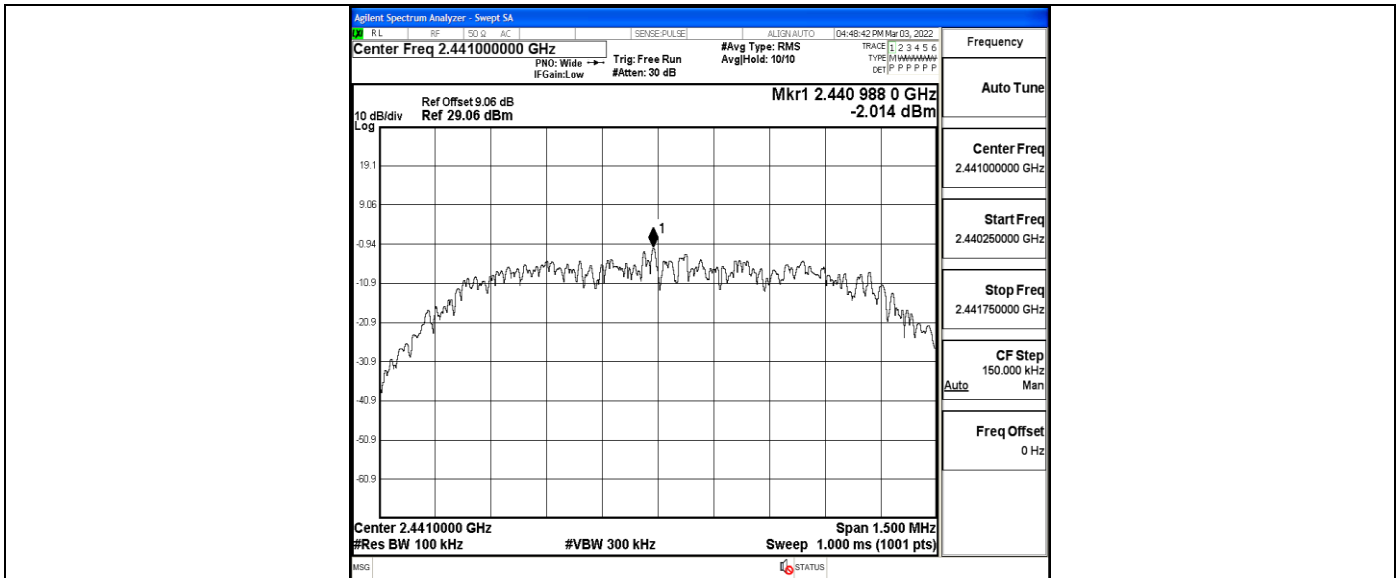
2DH5_Ant0_2402_30~1000



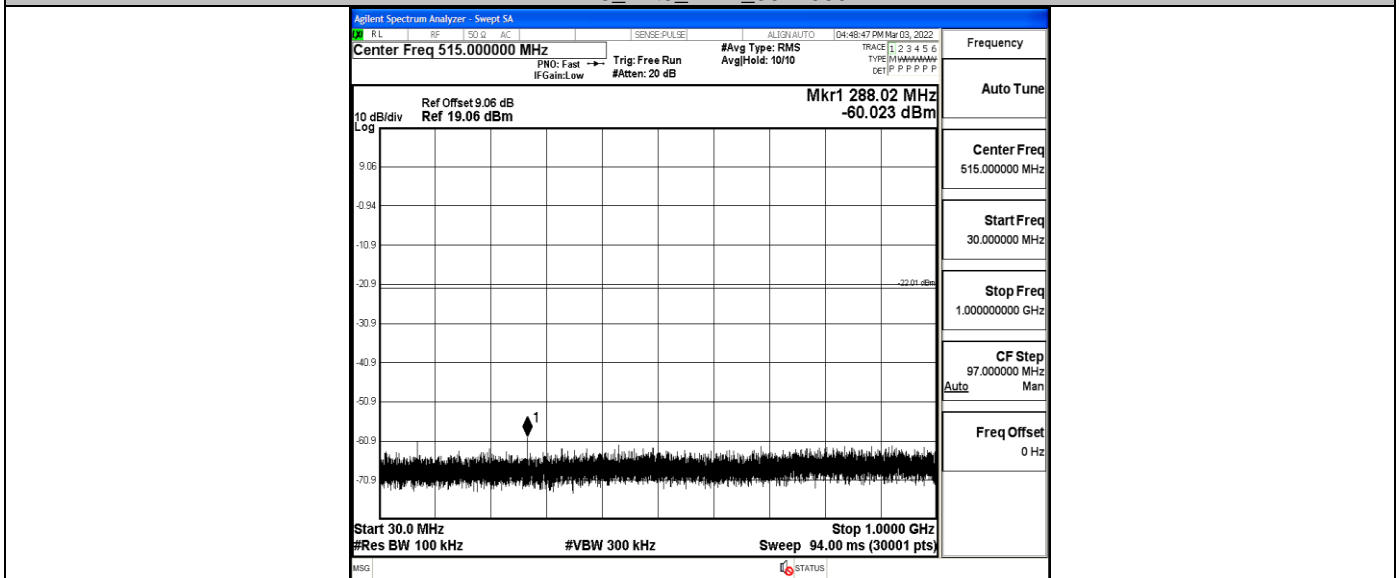
2DH5_Ant0_2402_1000~26500



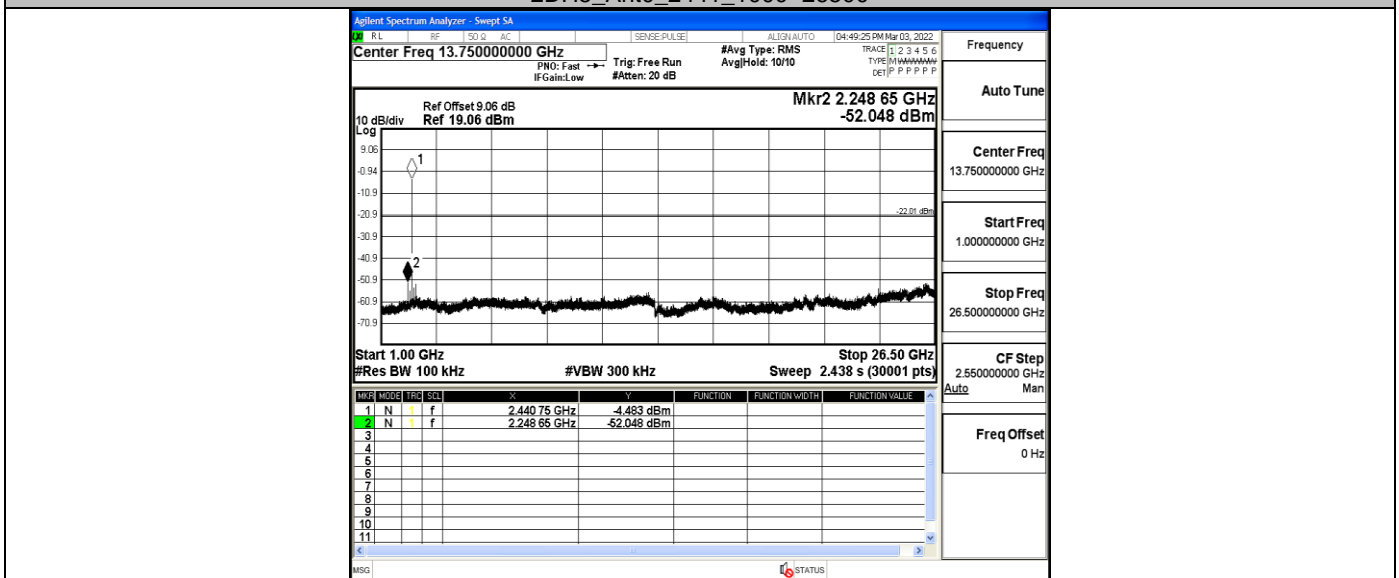
2DH5_Ant0_2441_0~Reference



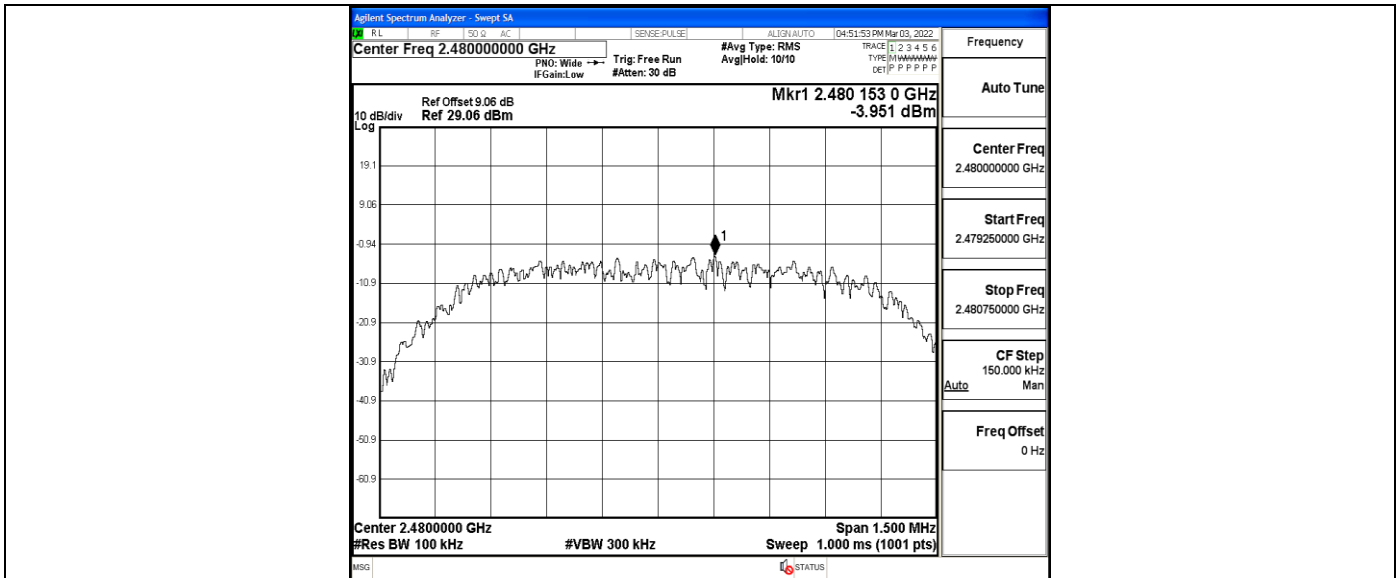
2DH5_Ant0_2441_30~1000



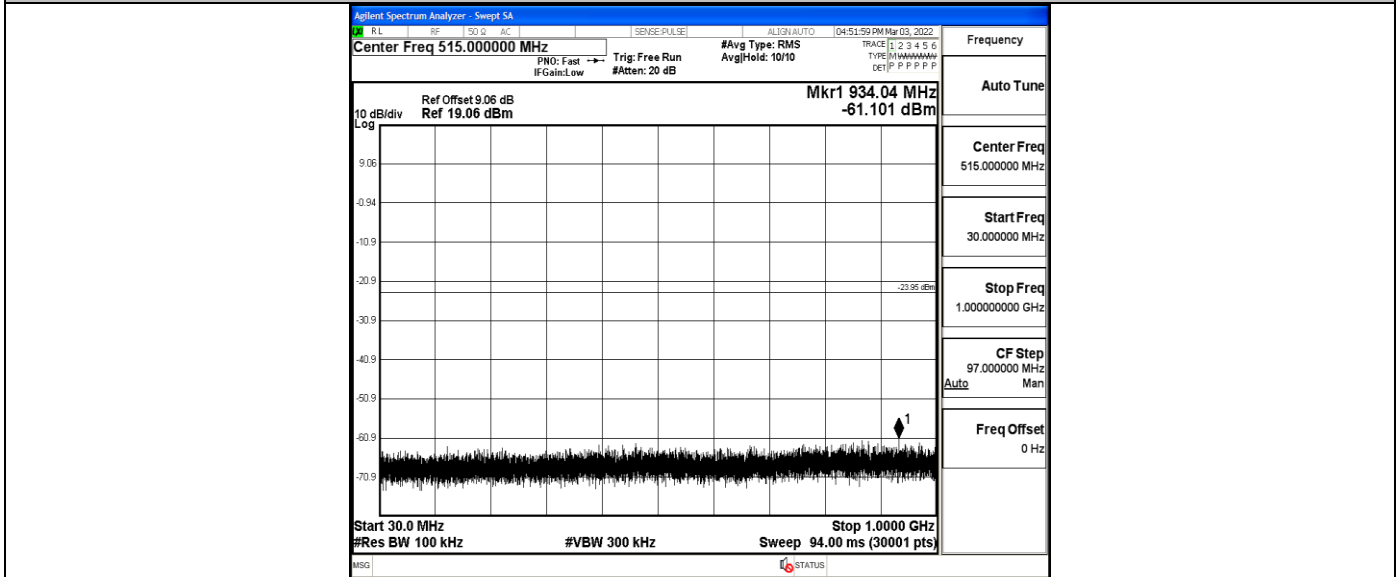
2DH5_Ant0_2441_1000~26500



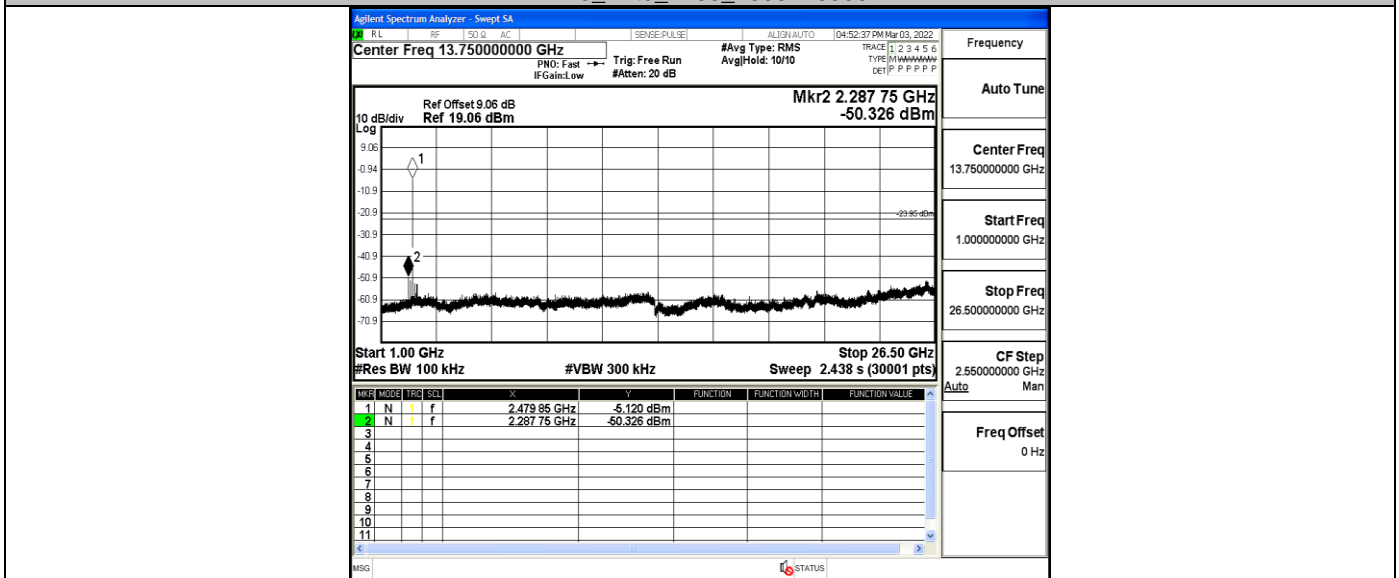
2DH5_Ant0_2480_0~Reference



2DH5_Ant0_2480_30~1000



2DH5_Ant0_2480_1000~26500



Appendix I: Duty Cycle

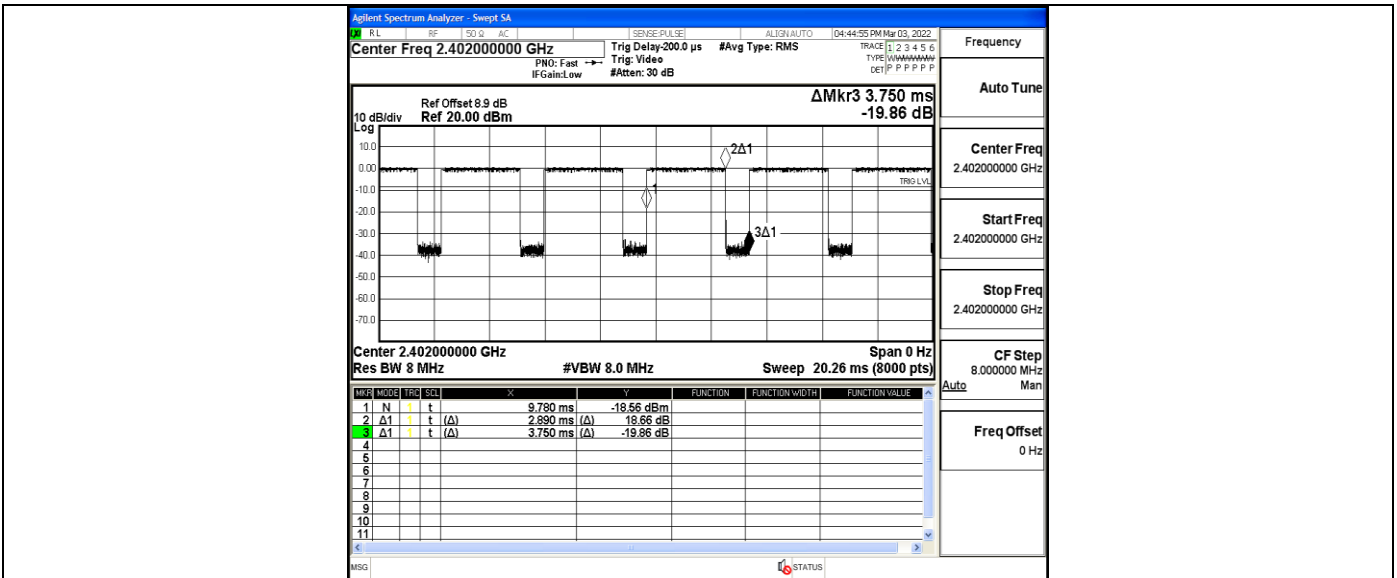
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/B(KHz)
DH5	Ant0	2402	2.87	3.77	76.13	0.35
		2441	2.88	3.74	77.01	0.35
		2480	2.89	3.75	77.07	0.35
2DH5	Ant0	2402	2.89	3.75	77.07	0.35
		2441	2.89	3.74	77.27	0.35
		2480	2.90	3.76	77.13	0.34

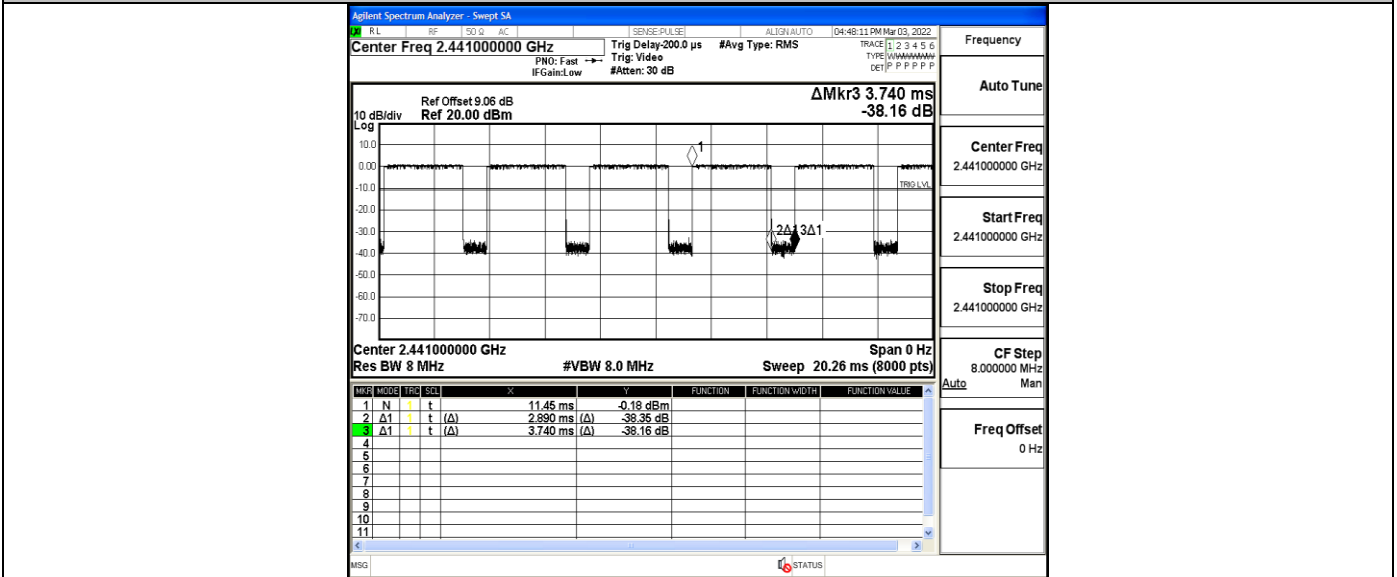
Test Graphs



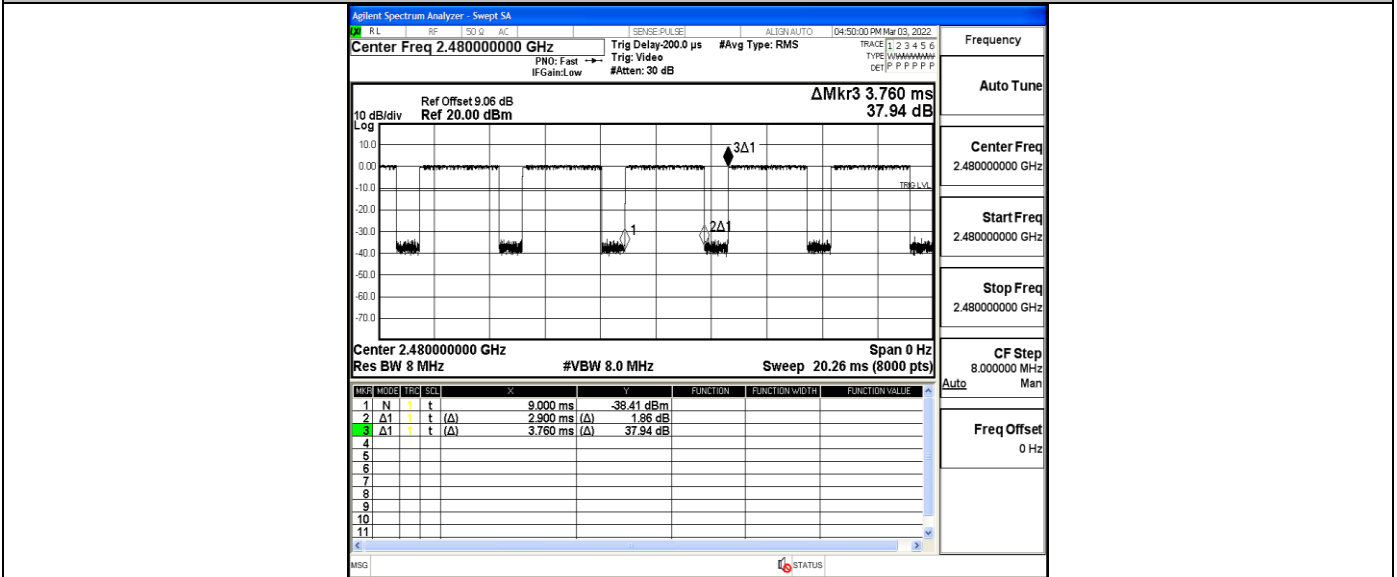
2DH5_Ant0_2402



2DH5_Ant0_2441



2DH5_Ant0_2480



Appendix J: Emissions in Restricted Bands

Test Result

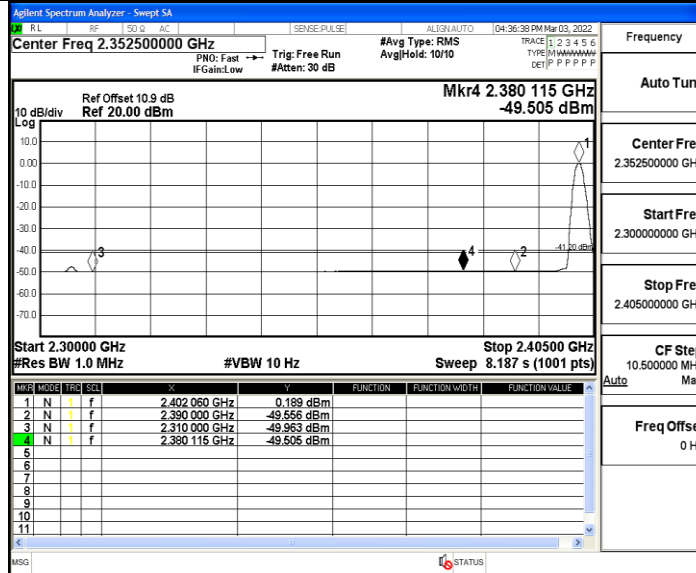
TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant0	Low	2402	AV	2310.000	-49.96	≤-41.20	PASS
				AV	2380.115	-49.5	≤-41.20	PASS
				AV	2390.000	-49.56	≤-41.20	PASS
				Peak	2310.000	-43.95	≤-21.20	PASS
				Peak	2369.300	-40.75	≤-21.20	PASS
				Peak	2390.000	-45.28	≤-21.20	PASS
		High	2480	AV	2483.500	-48.15	≤-41.20	PASS
				AV	2483.520	-48.15	≤-41.20	PASS
				AV	2500.000	-48.48	≤-41.20	PASS
				Peak	2483.500	-39.74	≤-21.20	PASS
				Peak	2488.640	-38.77	≤-21.20	PASS
				Peak	2500.000	-42.15	≤-21.20	PASS
2DH5	Ant0	Low	2402	AV	2310.000	-49.58	≤-41.20	PASS
				AV	2378.645	-48.97	≤-41.20	PASS
				AV	2390.000	-49.16	≤-41.20	PASS
				Peak	2310.000	-40.3	≤-21.20	PASS
				Peak	2311.970	-39.85	≤-21.20	PASS
				Peak	2390.000	-41.76	≤-21.20	PASS
		High	2480	AV	2483.500	-48	≤-41.20	PASS
				AV	2483.520	-48	≤-41.20	PASS
				AV	2500.000	-48.42	≤-41.20	PASS
				Peak	2483.500	-39.23	≤-21.20	PASS
				Peak	2483.520	-39.23	≤-21.20	PASS
				Peak	2500.000	-39.99	≤-21.20	PASS

Note :

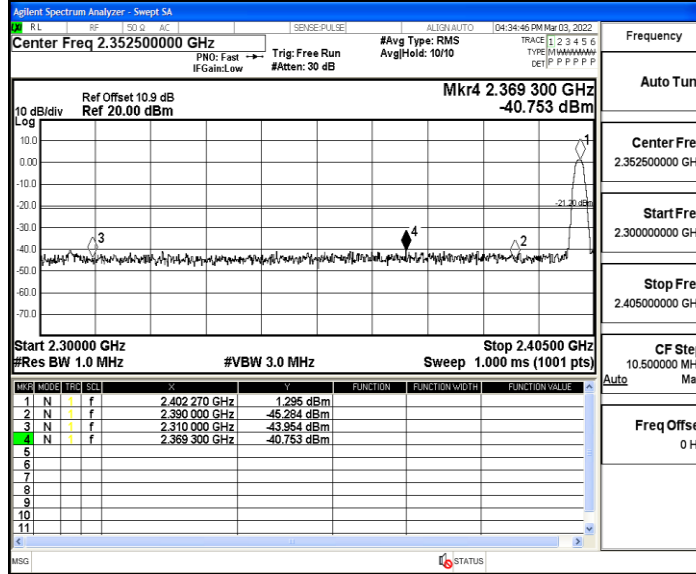
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

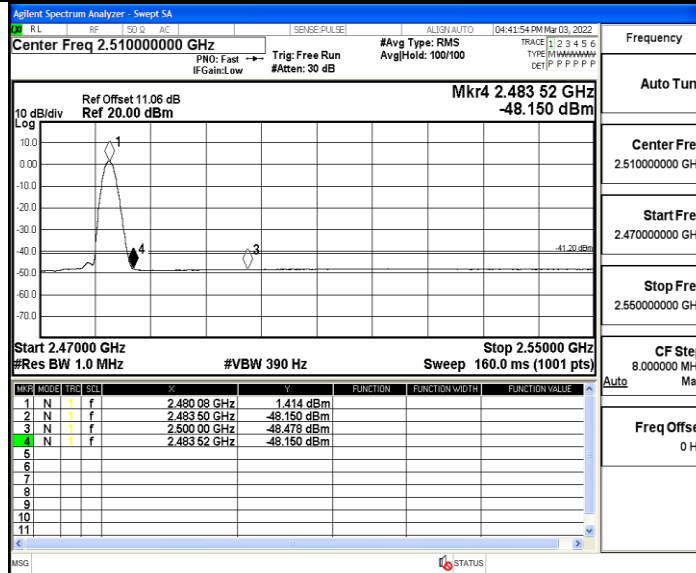
DH5_Ant0_Low_2402_AV



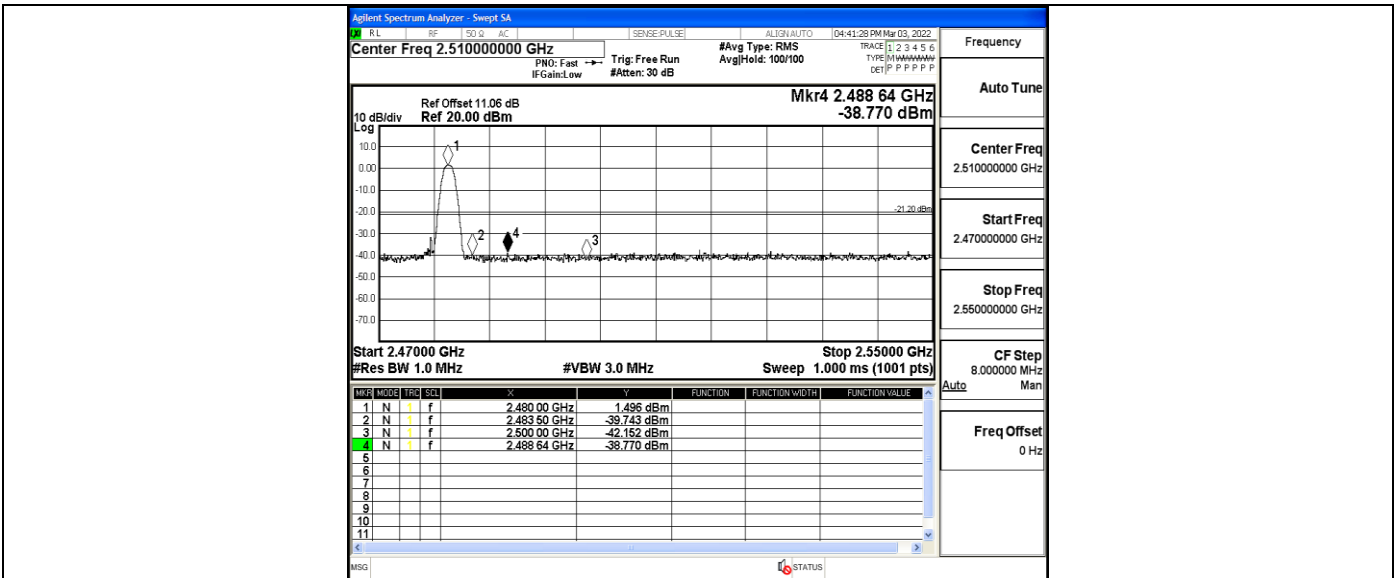
DH5_Ant0_Low_2402_Peak



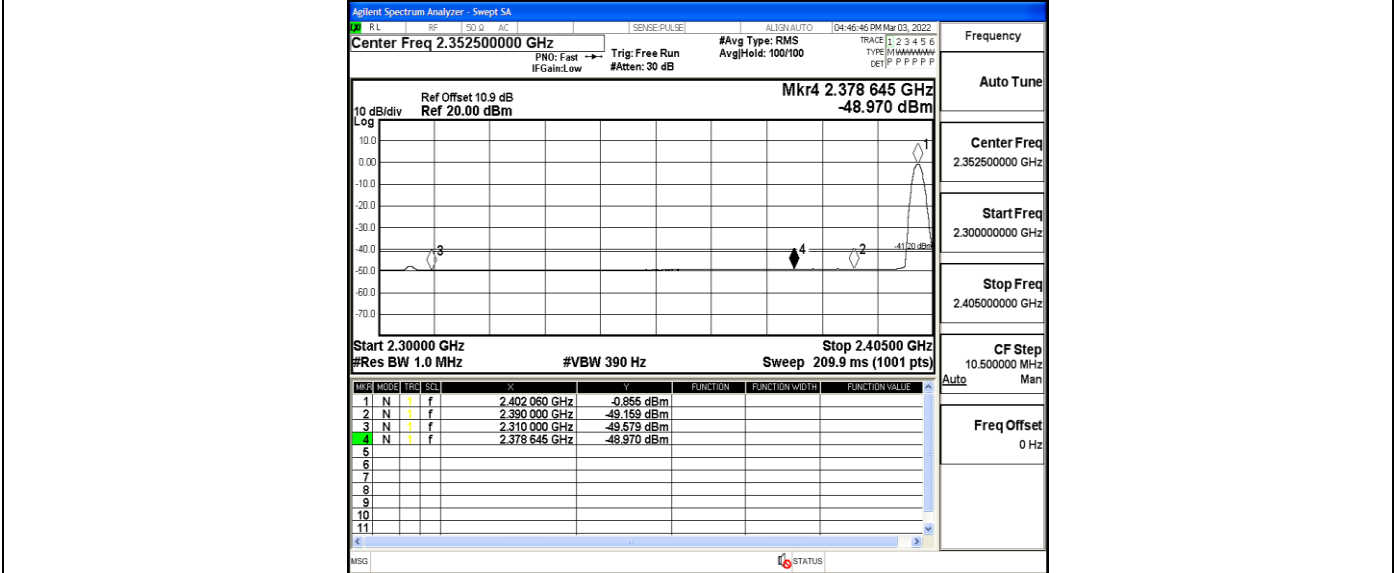
DH5_Ant0_High_2480_AV



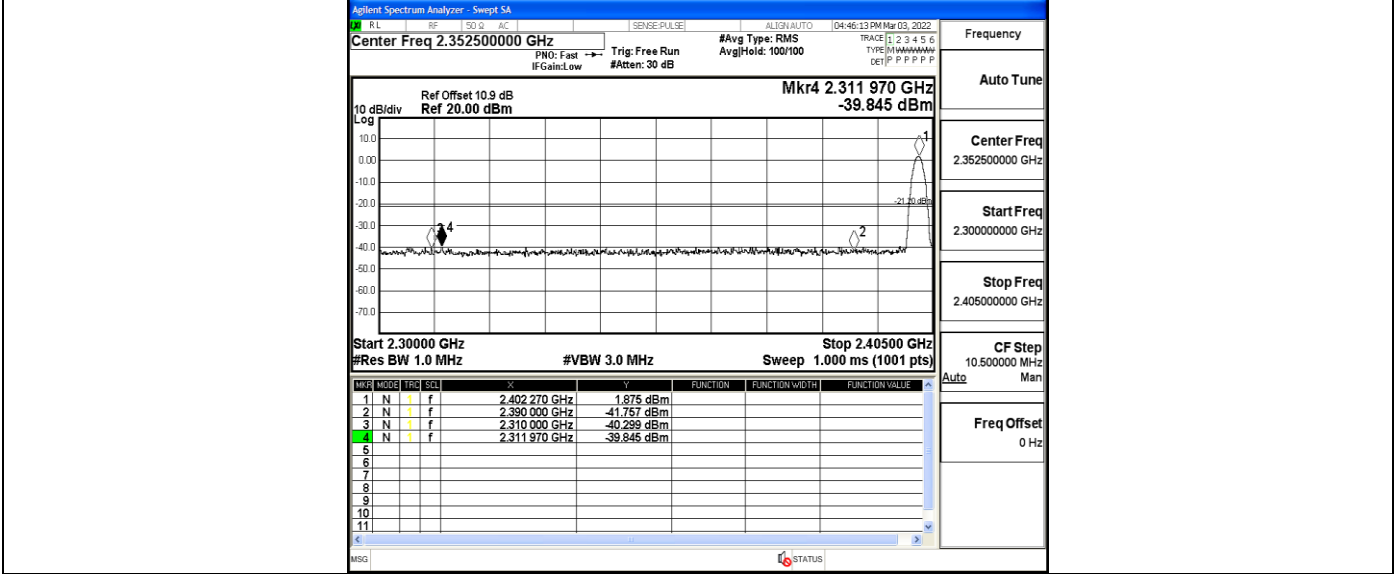
DH5_Ant0_High_2480_Peak



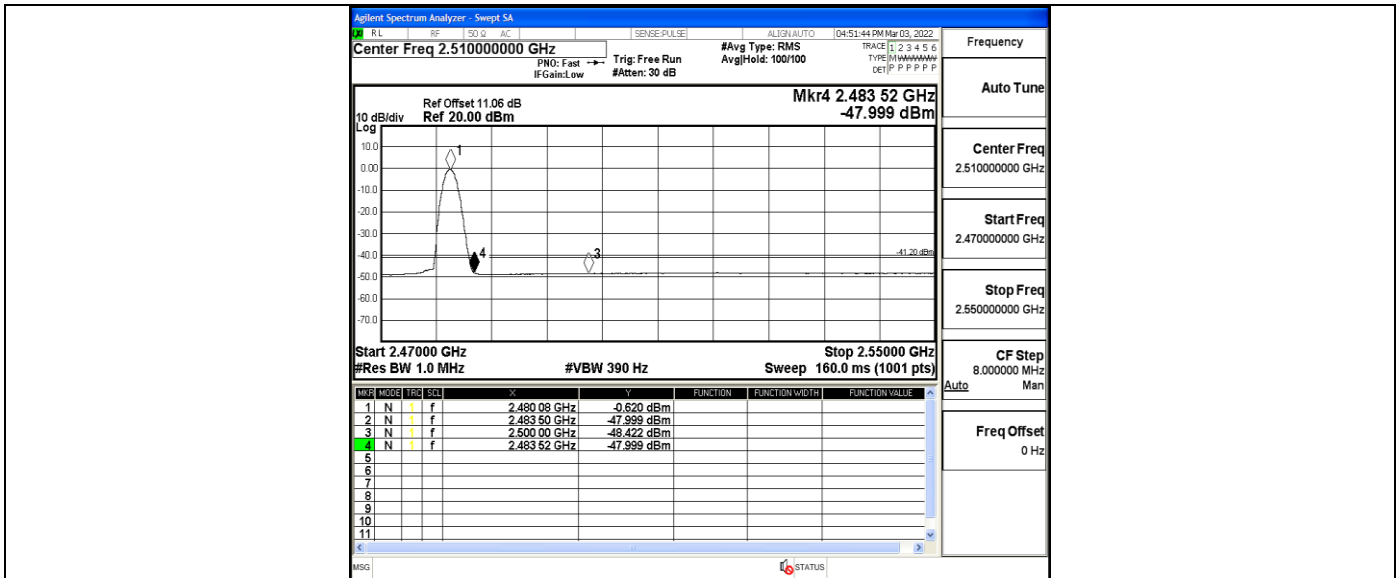
2DH5_Ant0_Low_2402_AV



2DH5_Ant0_Low_2402_Peak



2DH5_Ant0_High_2480_AV



2DH5_Ant0_High_2480_Peak

