

Appendix A

RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Wireless Rock Speaker

Trade Mark: OSD AUDIO

Test Model: BTR805

FCC ID: 2A4UH-BTR805

Environmental Conditions

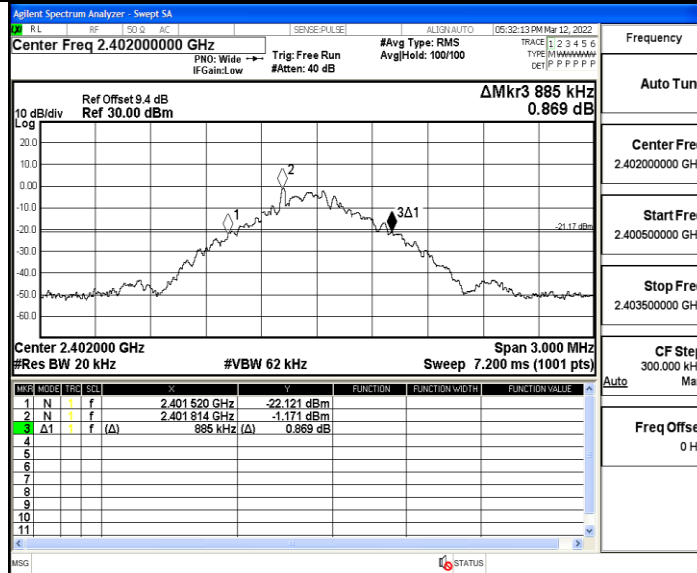
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

A.1 20 dB Bandwidth

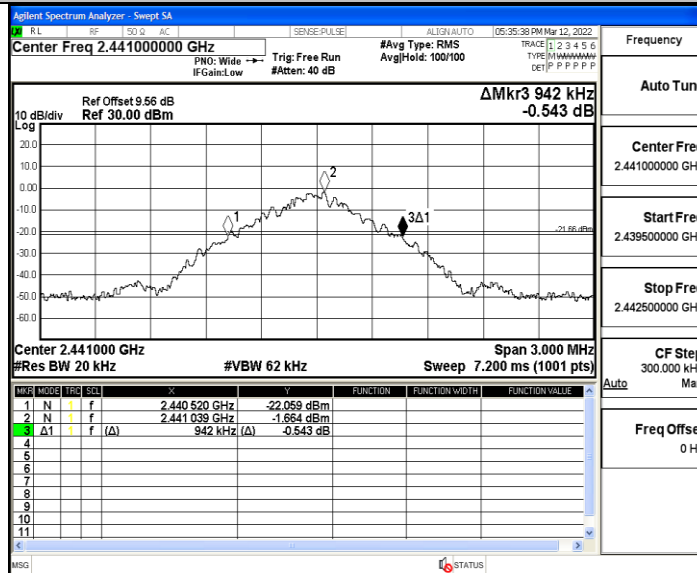
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.885	2401.520	2402.405	---	---
		2441	0.942	2440.520	2441.462	---	---
		2480	0.942	2479.520	2480.462	---	---
2DH5	Ant1	2402	1.329	2401.313	2402.642	---	---
		2441	1.317	2440.322	2441.639	---	---
		2480	1.335	2479.316	2480.651	---	---
3DH5	Ant1	2402	1.281	2401.328	2402.609	---	---
		2441	1.284	2440.334	2441.618	---	---
		2480	1.302	2479.328	2480.630	---	---

Test Graph

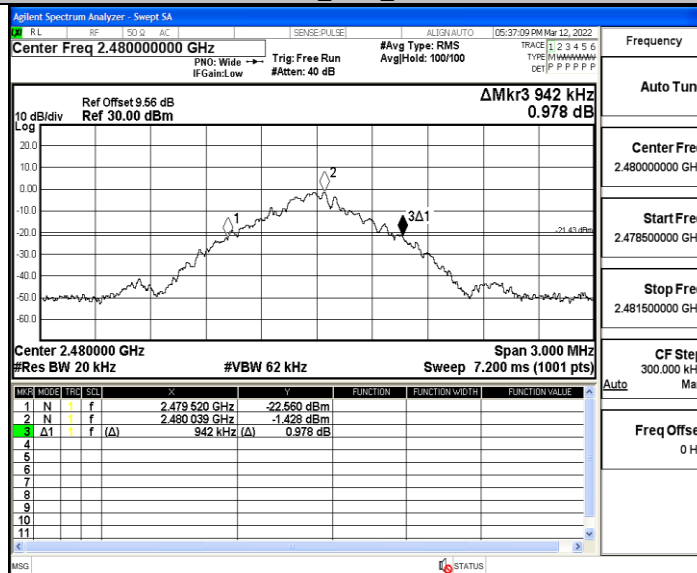
DH5_Ant1_2402



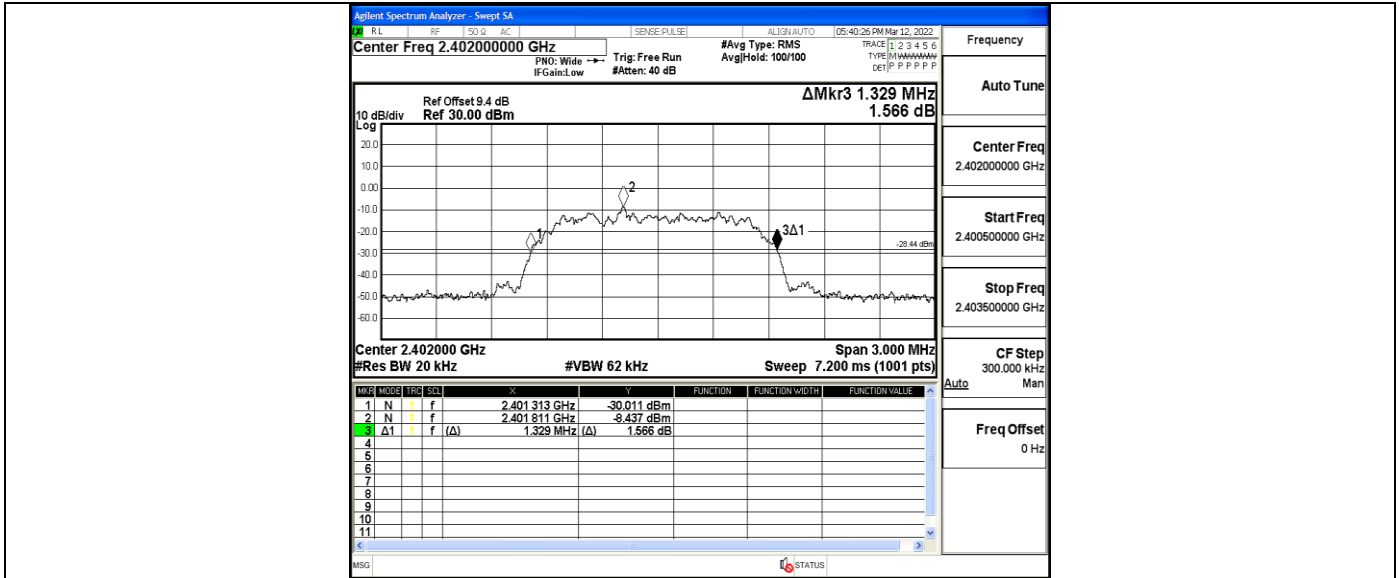
DH5_Ant1_2441



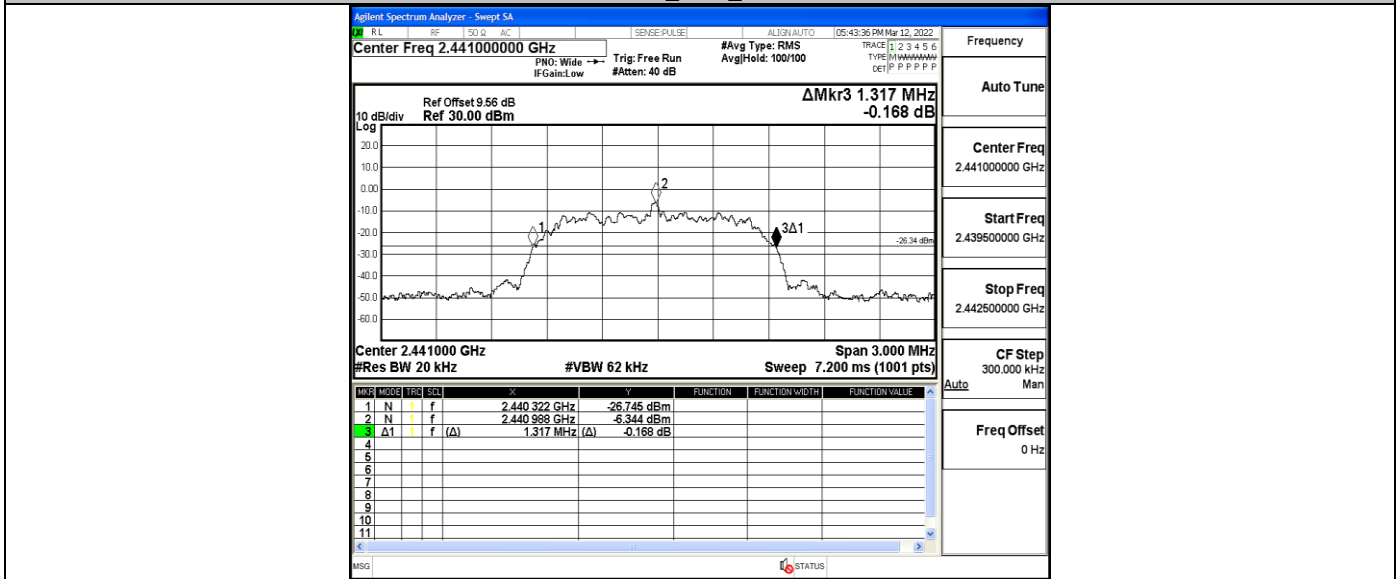
DH5_Ant1_2480



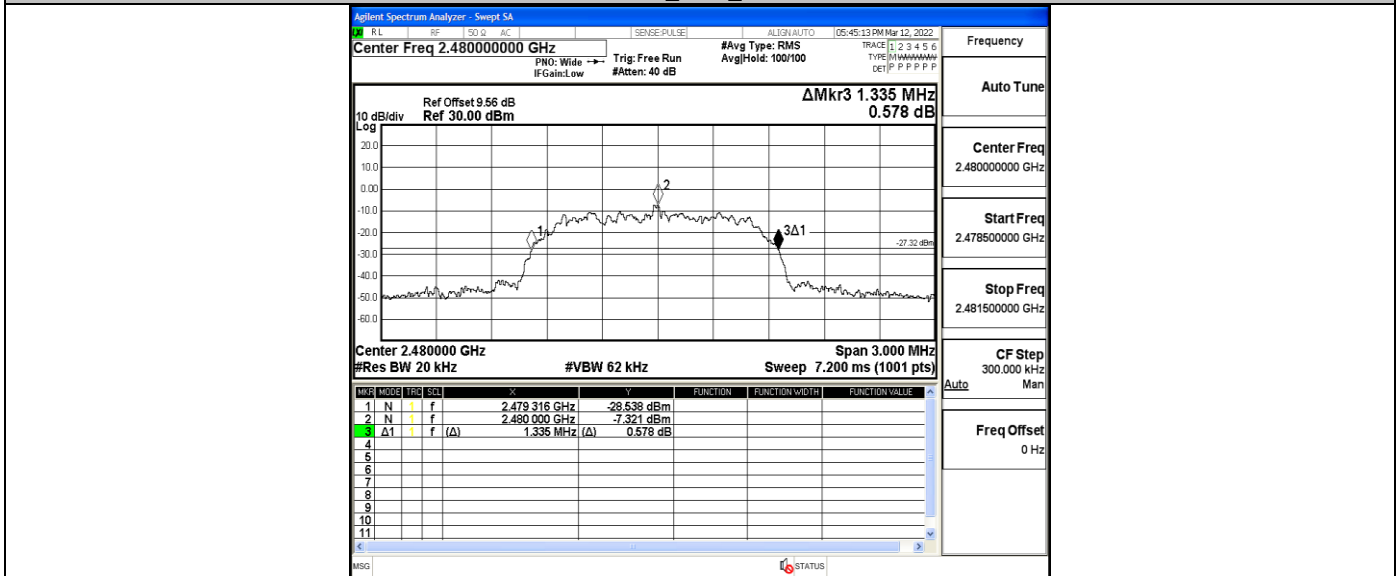
2DH5_Ant1_2402



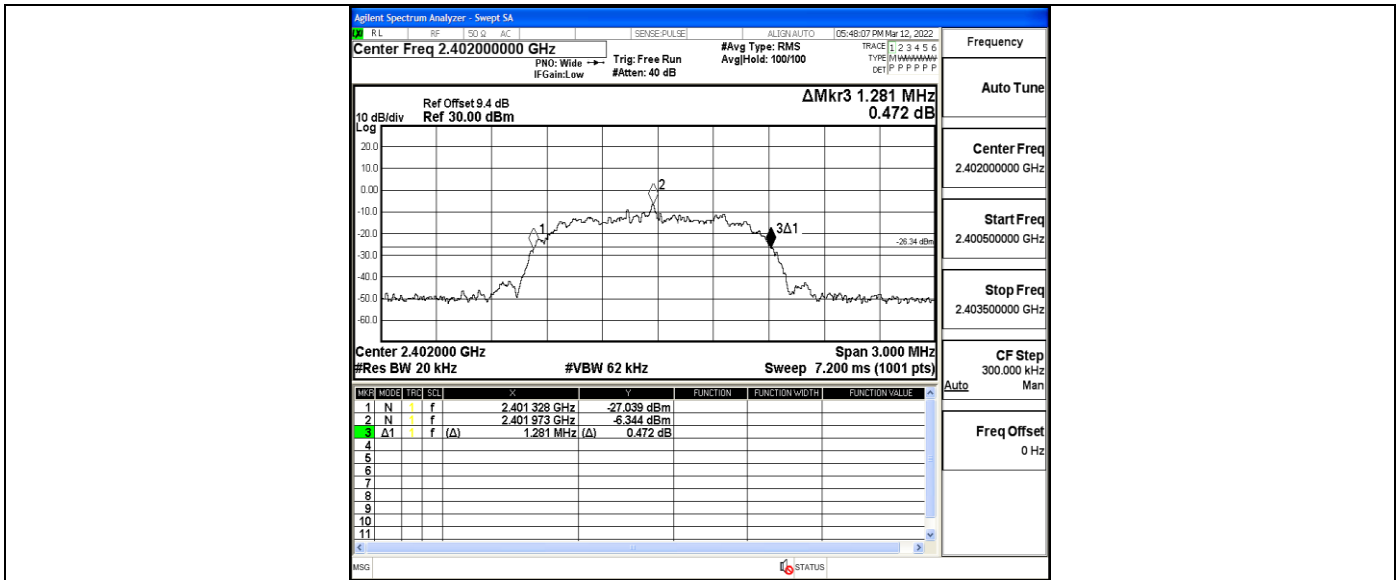
2D5_Ant1_2441



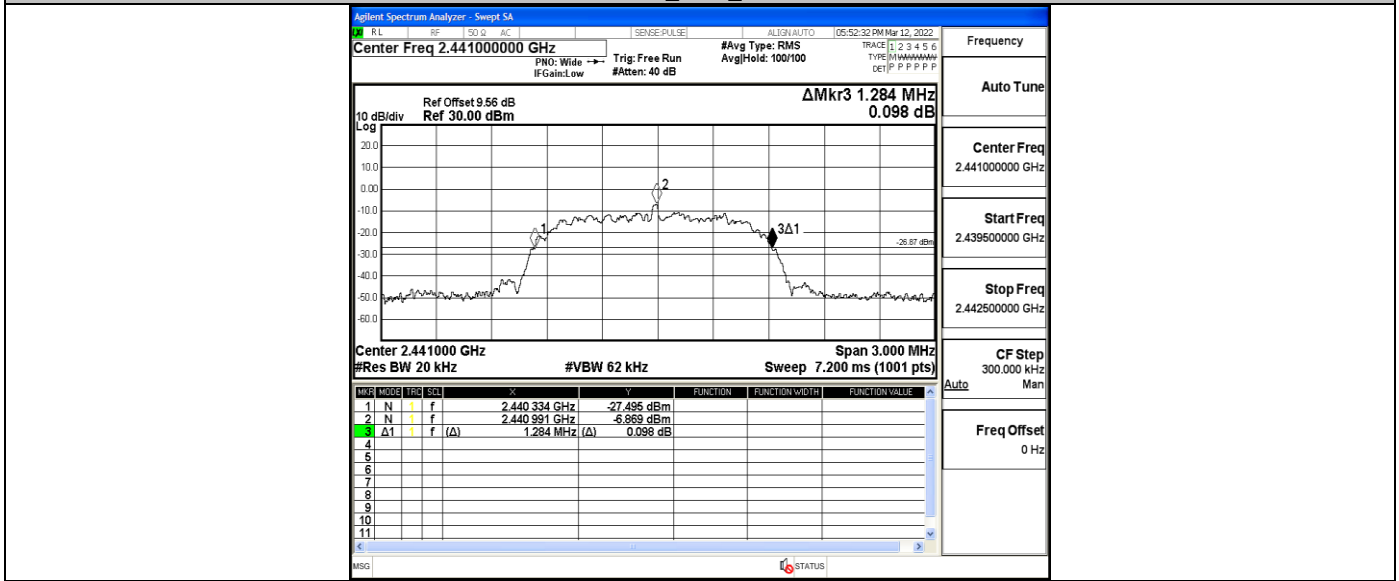
2D5_Ant1_2480



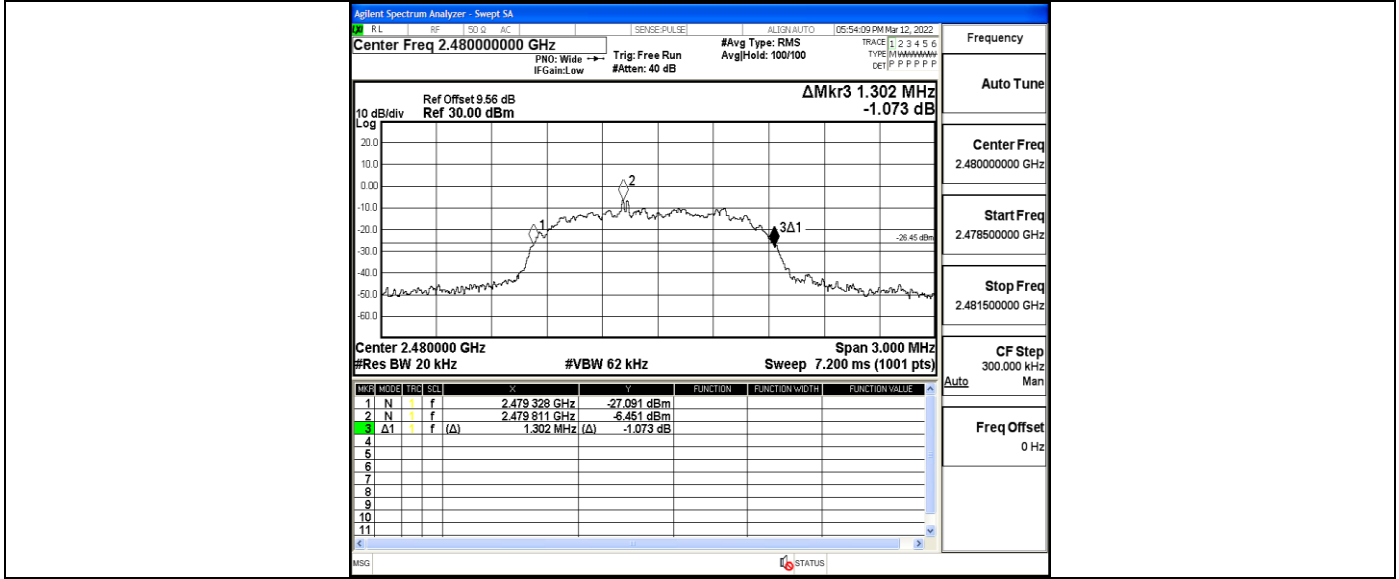
3D5_Ant1_2402



3DH5_Ant1_2441



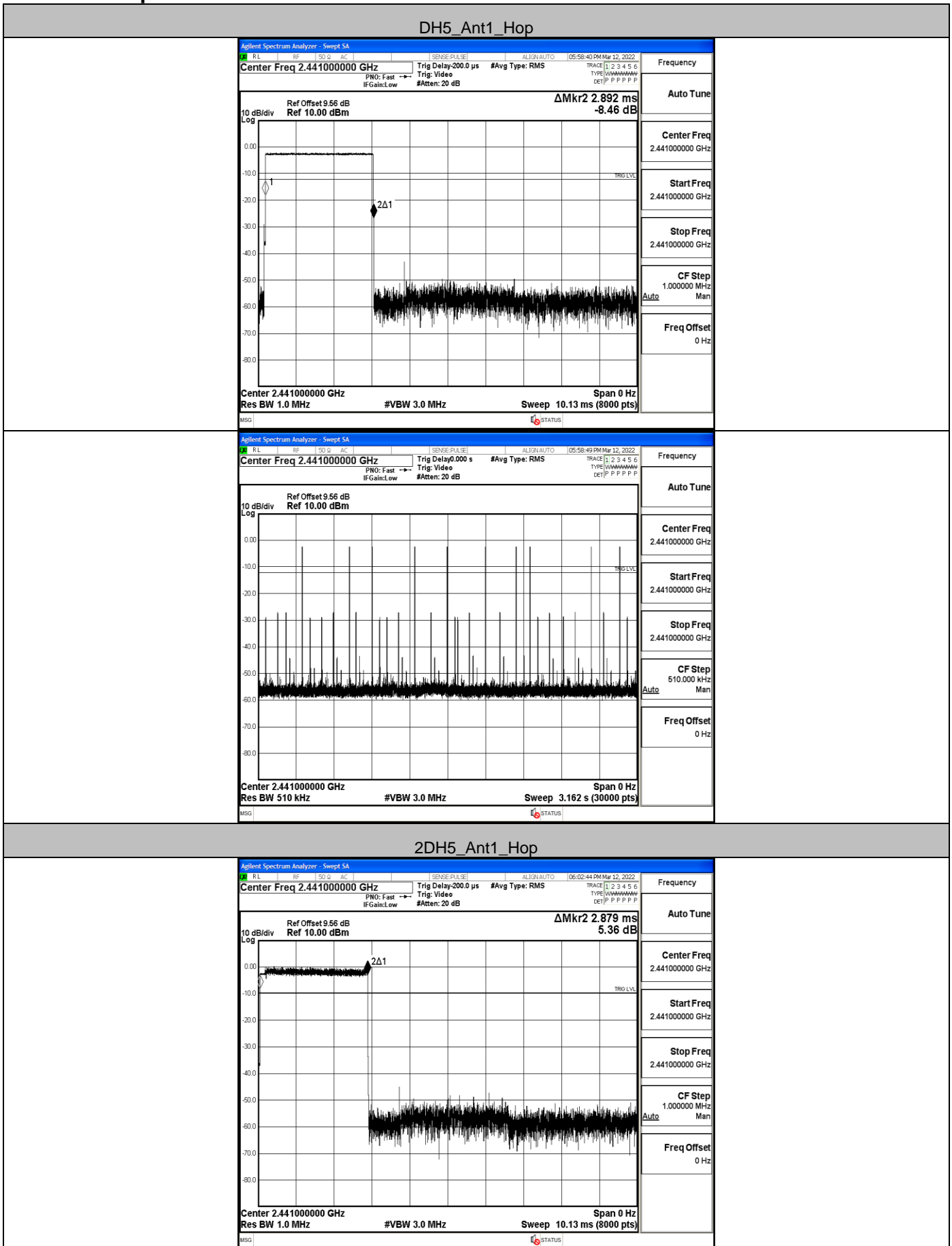
3DH5_Ant1_2480

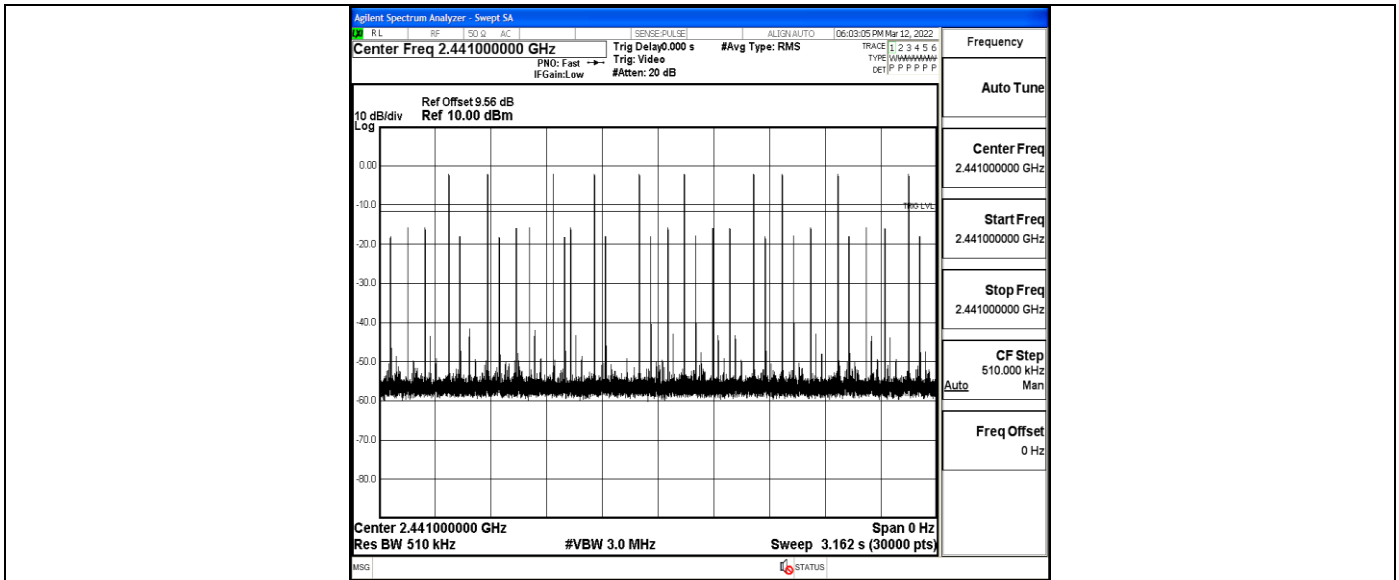


A.2 Dwell Time

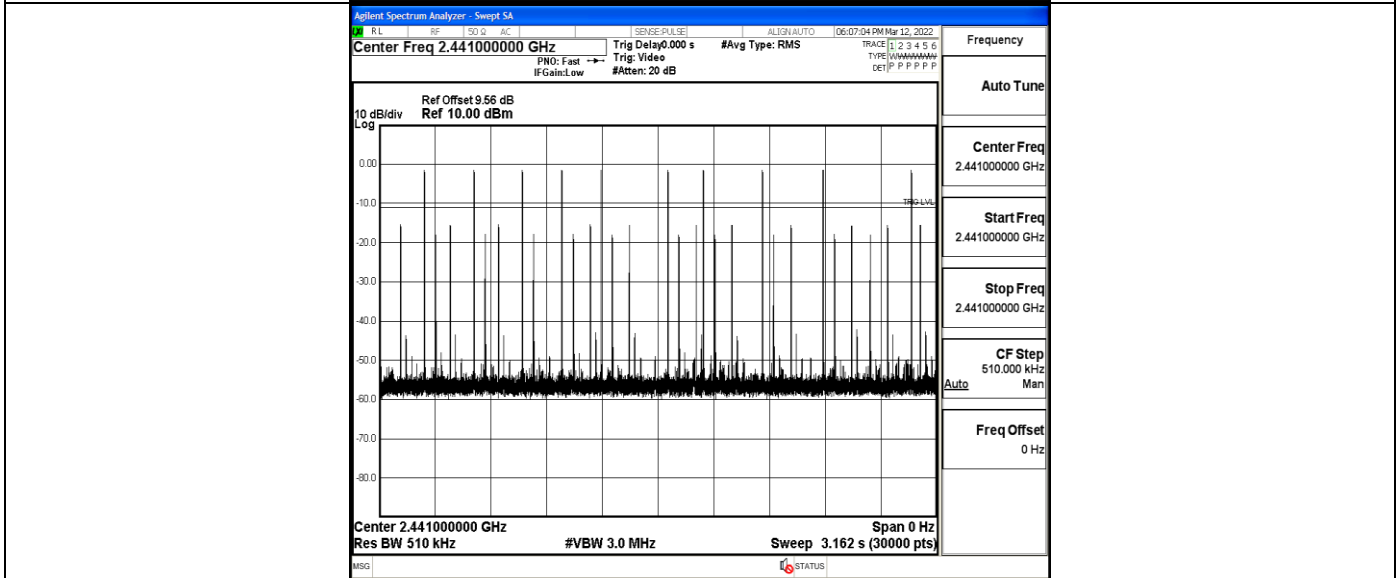
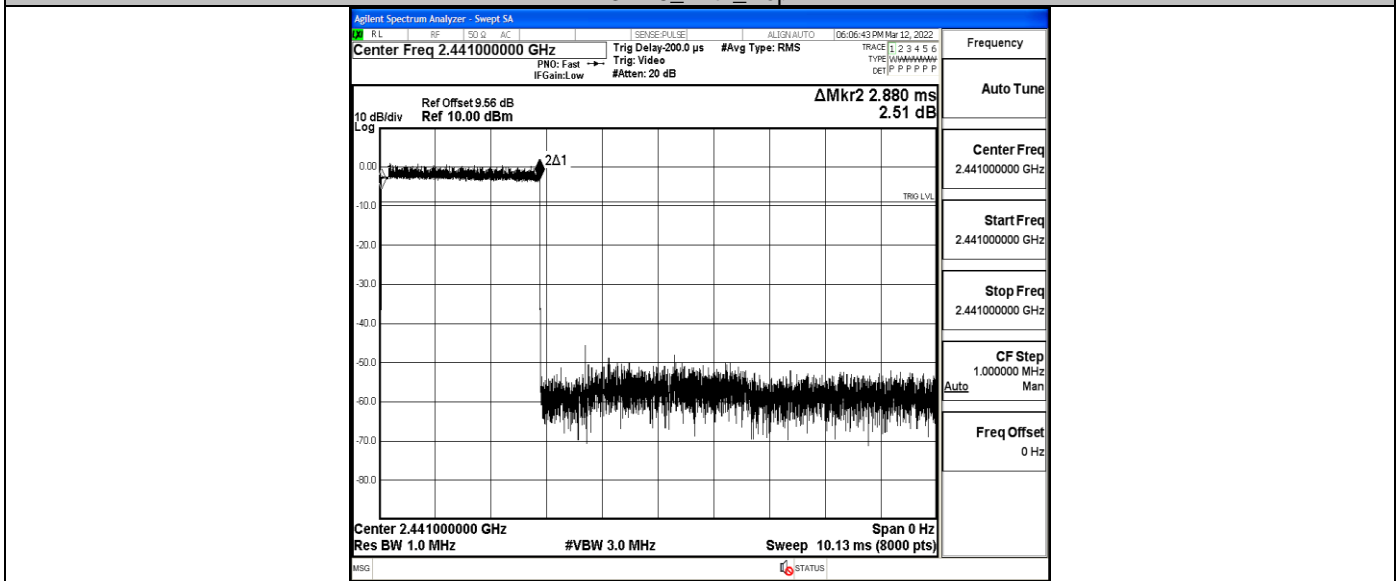
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	110	0.318	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS

Test Graph





3DH5_Ant1_Hop

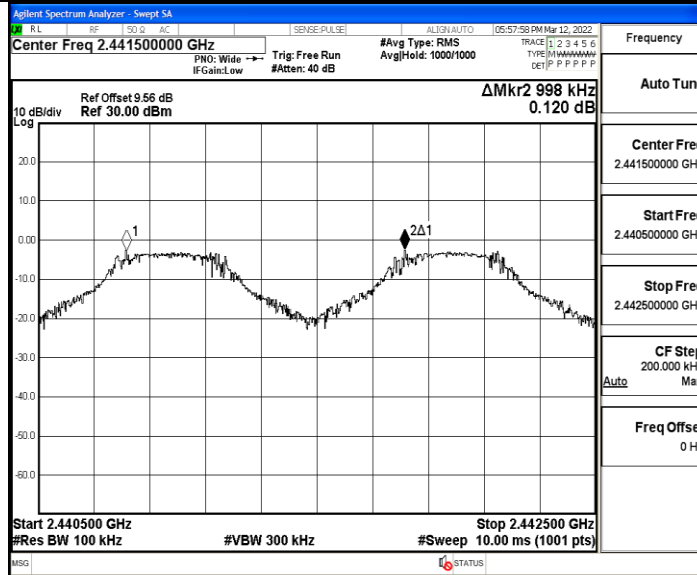


A.3 Carrier Frequency Separation

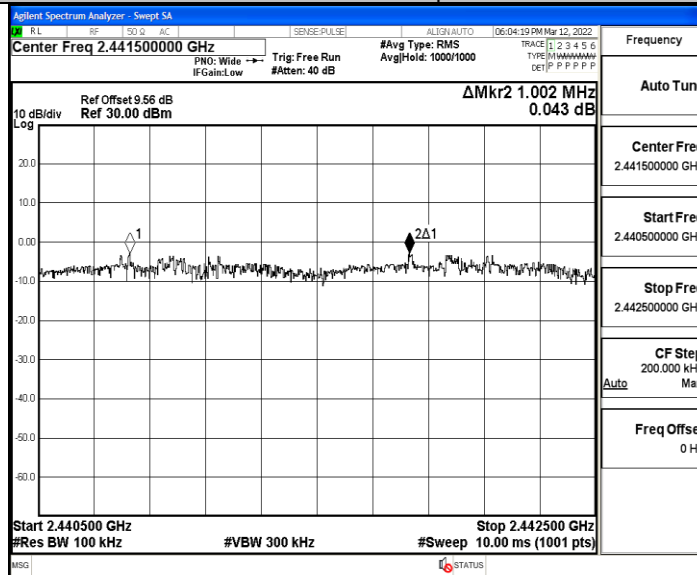
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.998	≥ 0.942	PASS
2DH5	Ant1	Hop	1.002	≥ 0.890	PASS
3DH5	Ant1	Hop	0.994	≥ 0.868	PASS

Test Graph

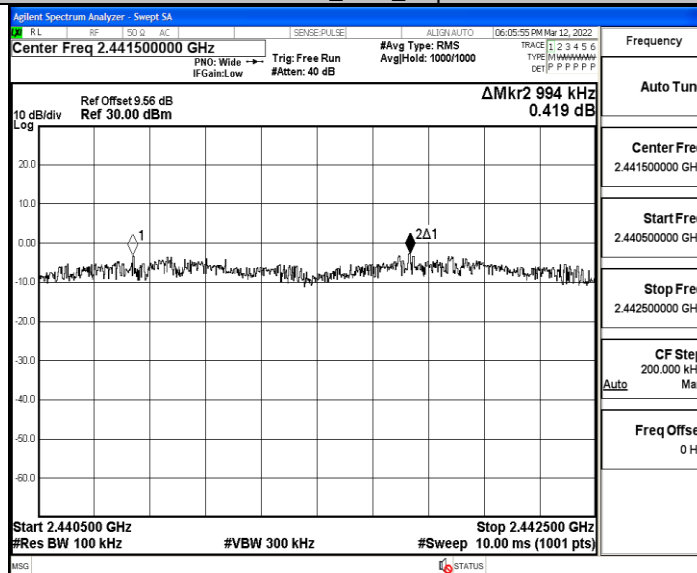
DH5_Ant1_Hop



2DH5_Ant1_Hop



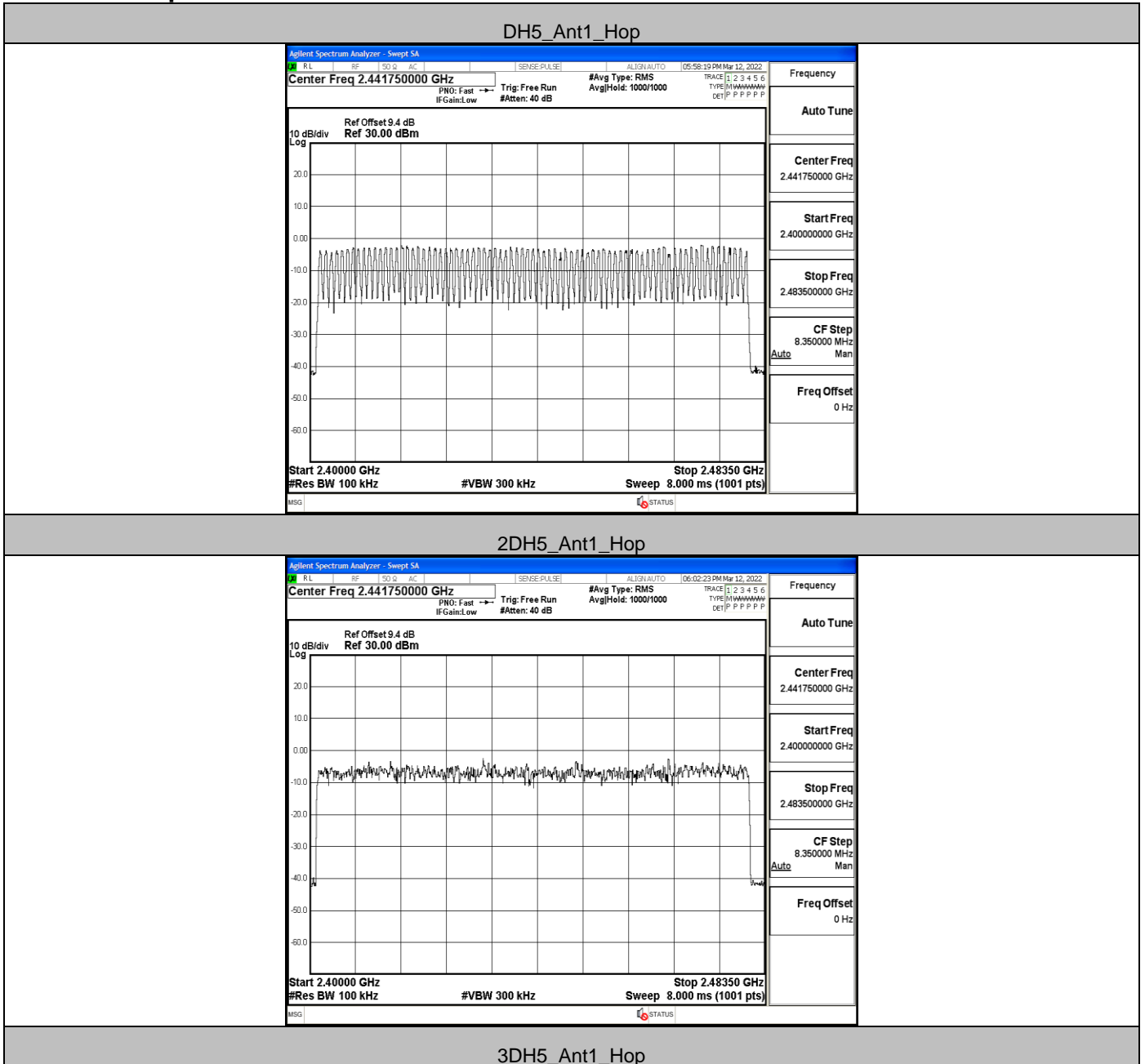
3DH5_Ant1_Hop

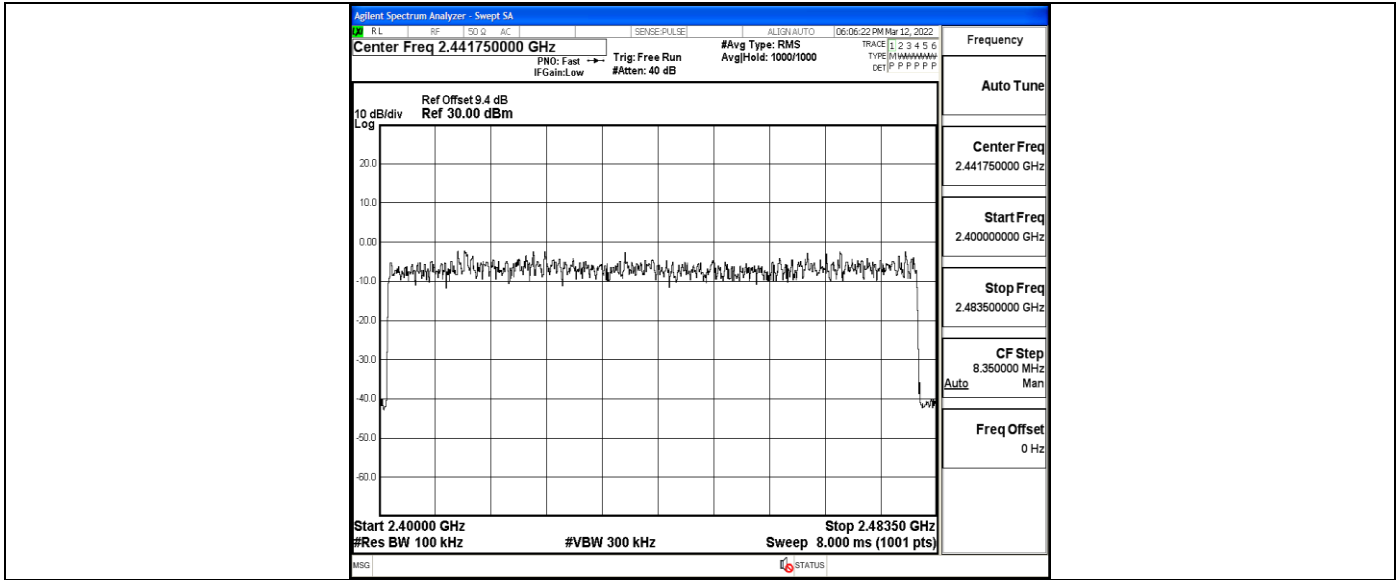


A.4 Hopping Channel Number

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 Graph

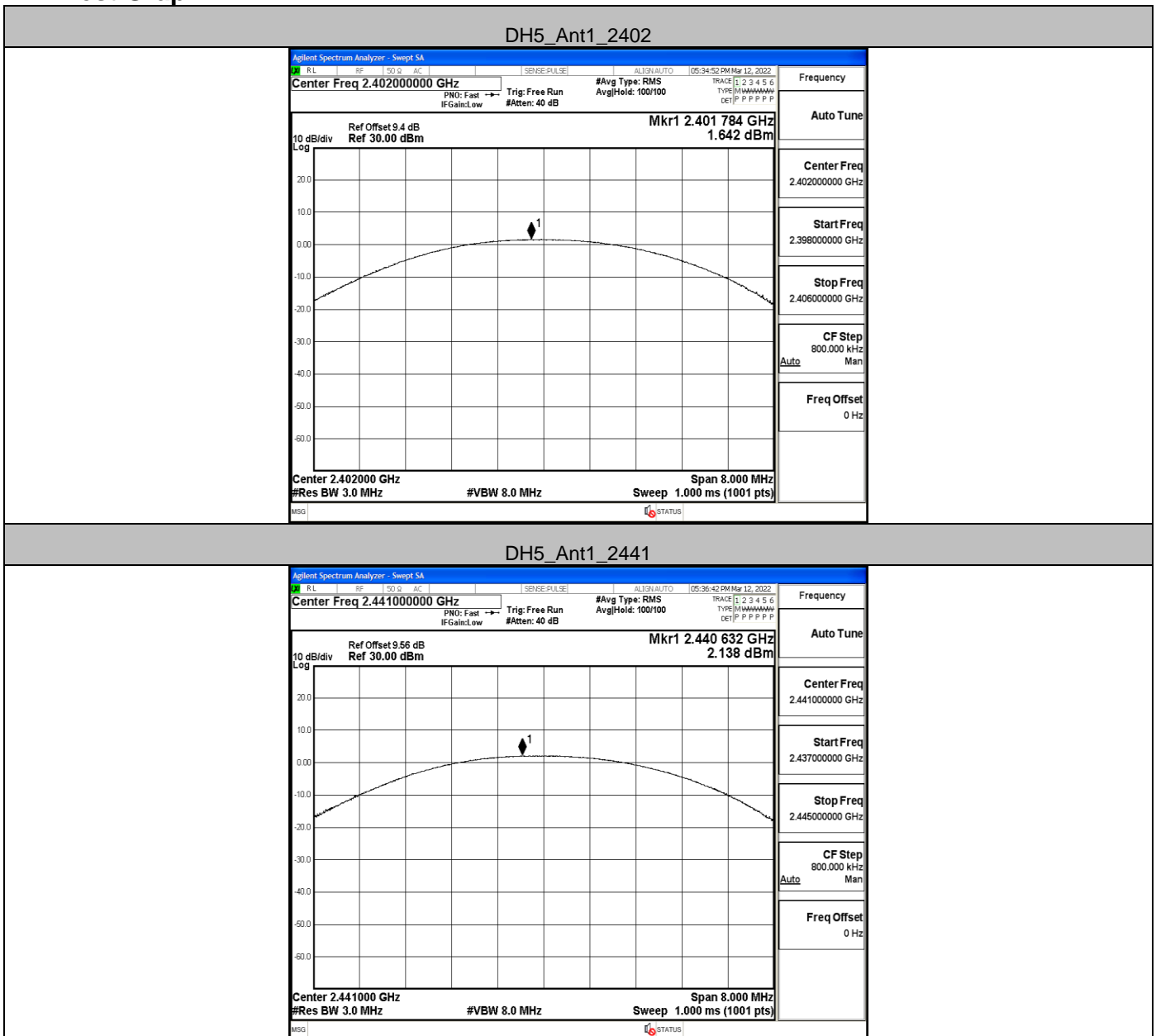




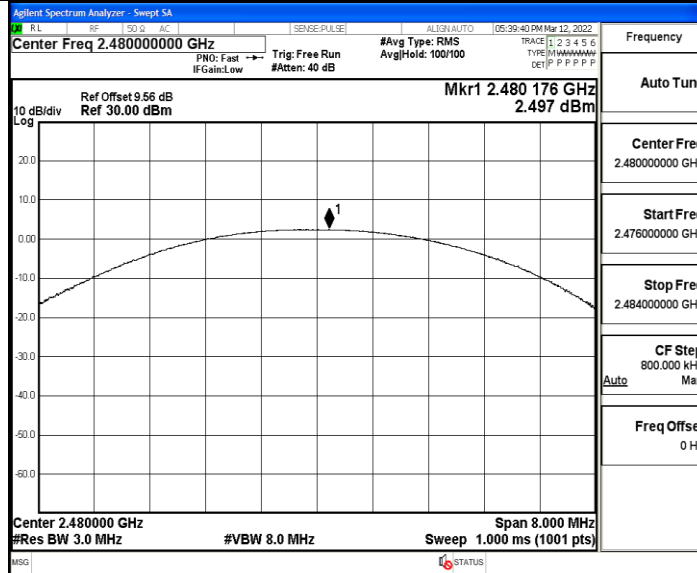
A.5 Conducted Peak Output Power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.64	≤20.97	PASS
		2441	2.14	≤20.97	PASS
		2480	2.5	≤20.97	PASS
2DH5	Ant1	2402	0.24	≤20.97	PASS
		2441	0.87	≤20.97	PASS
		2480	1.15	≤20.97	PASS
3DH5	Ant1	2402	1.06	≤20.97	PASS
		2441	1.42	≤20.97	PASS
		2480	1.84	≤20.97	PASS

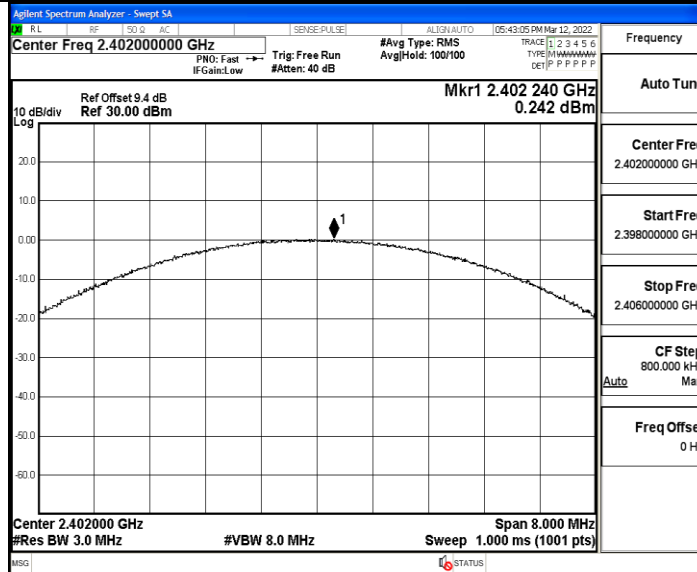
Test Graph



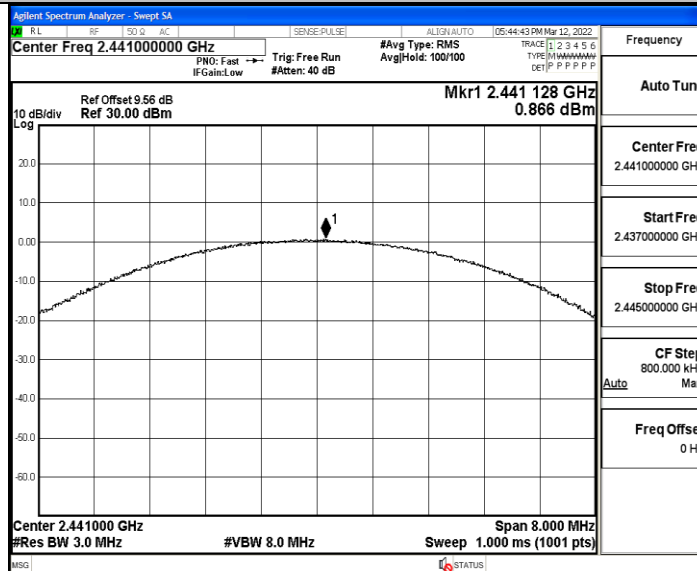
DH5_Ant1_2480



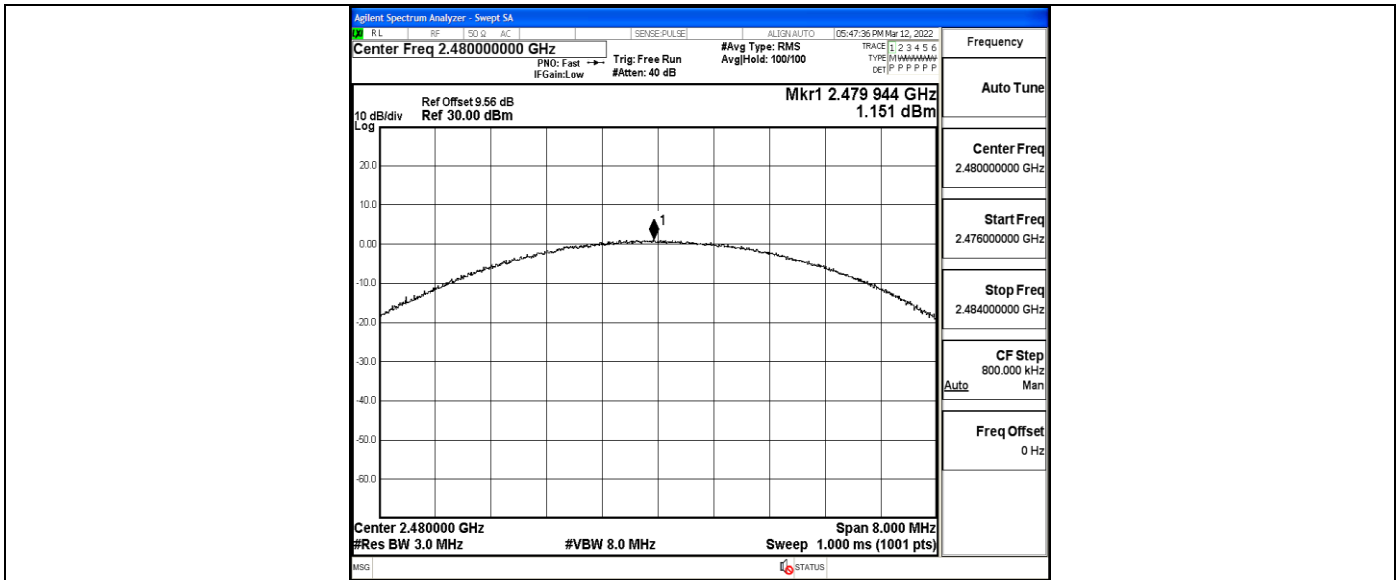
2DH5_Ant1_2402



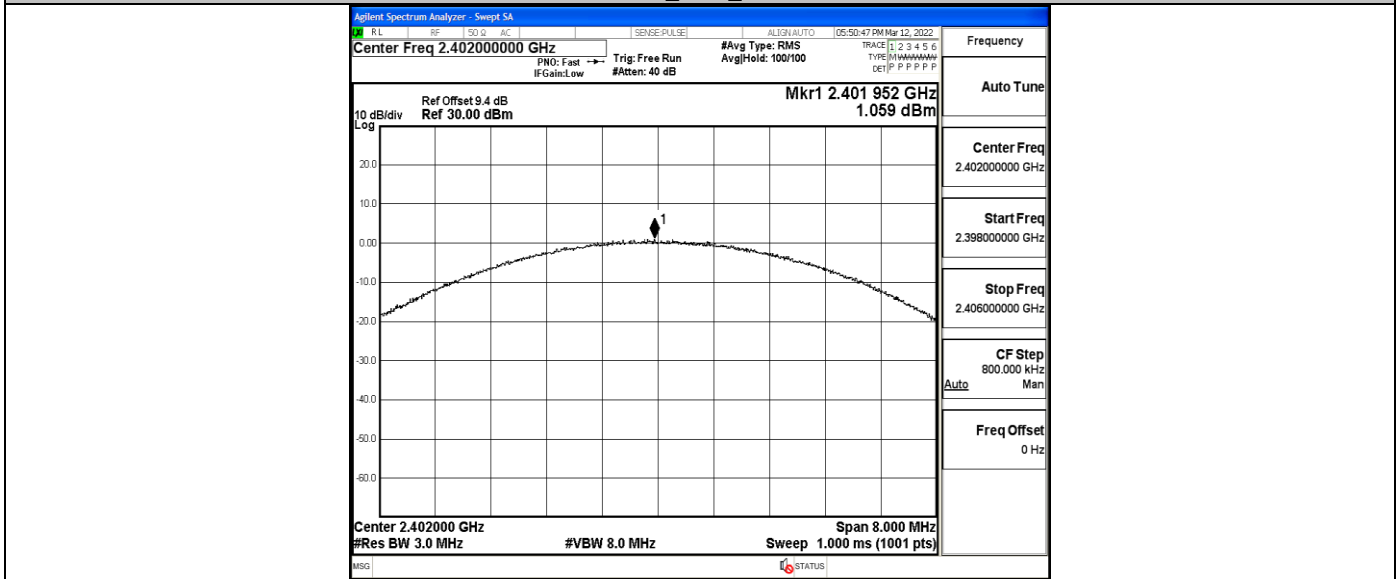
2DH5_Ant1_2441



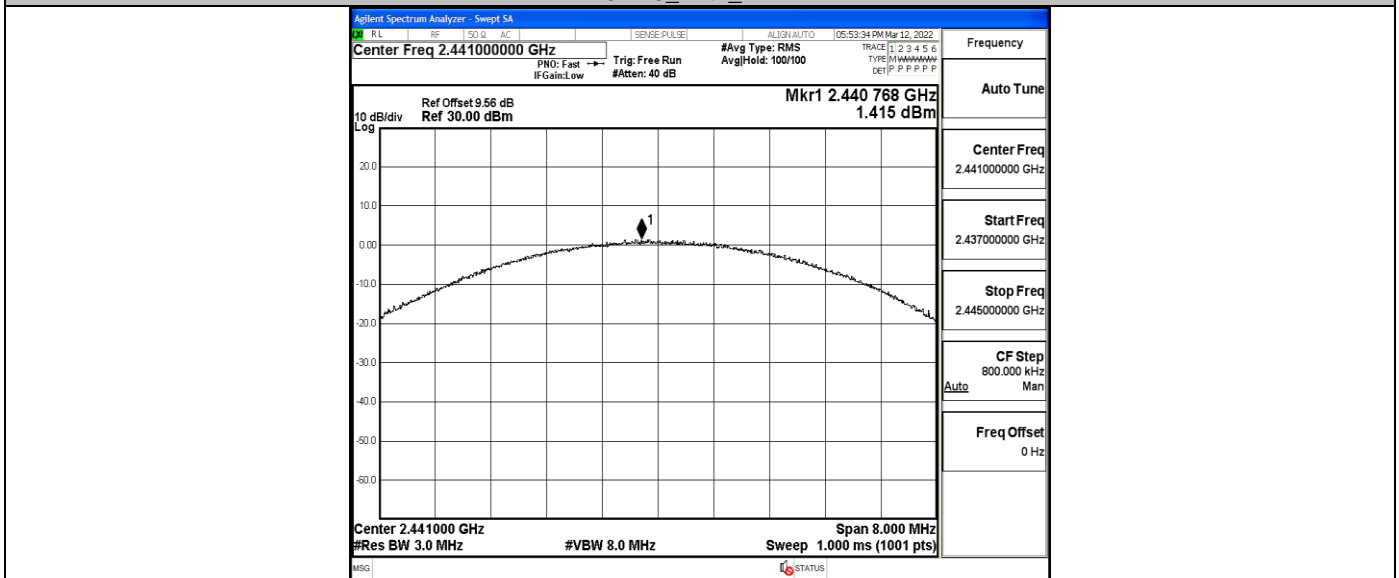
2DH5_Ant1_2480



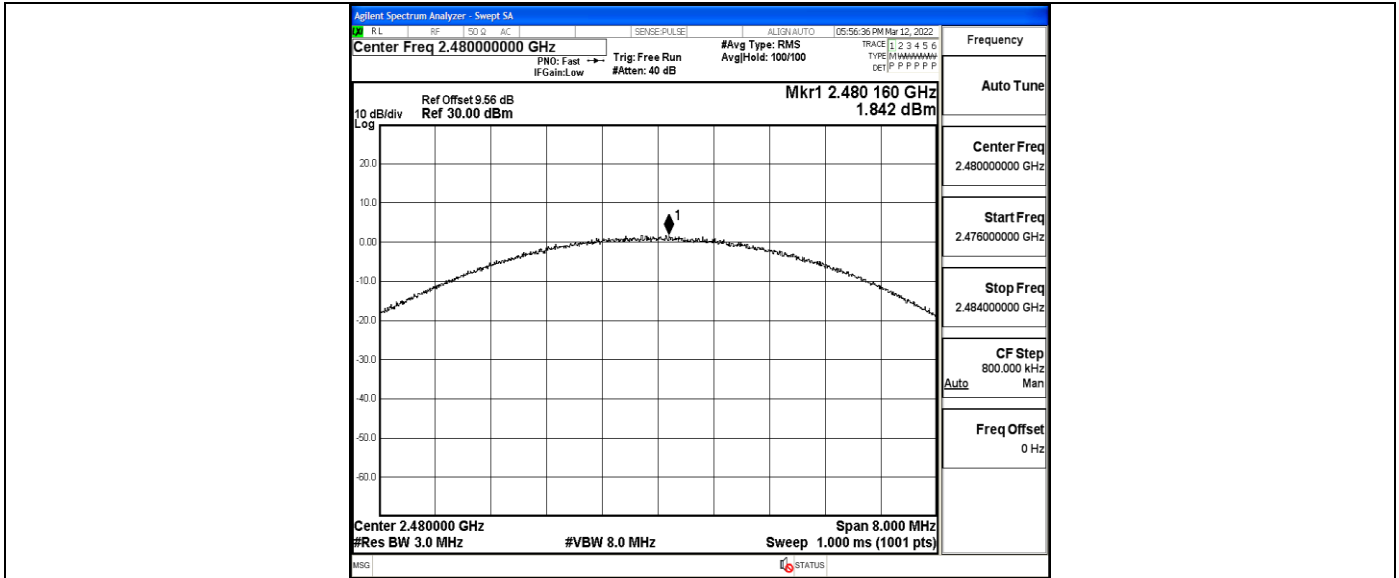
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

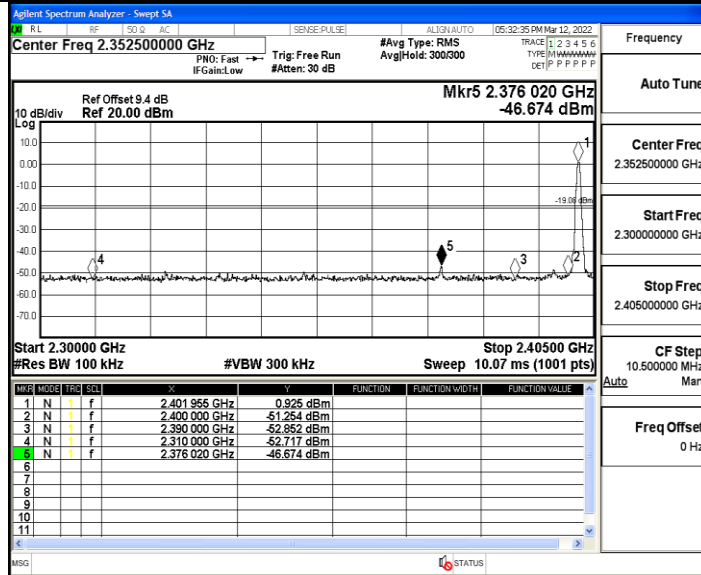


A.6 Band-edge for RF Conducted Emissions

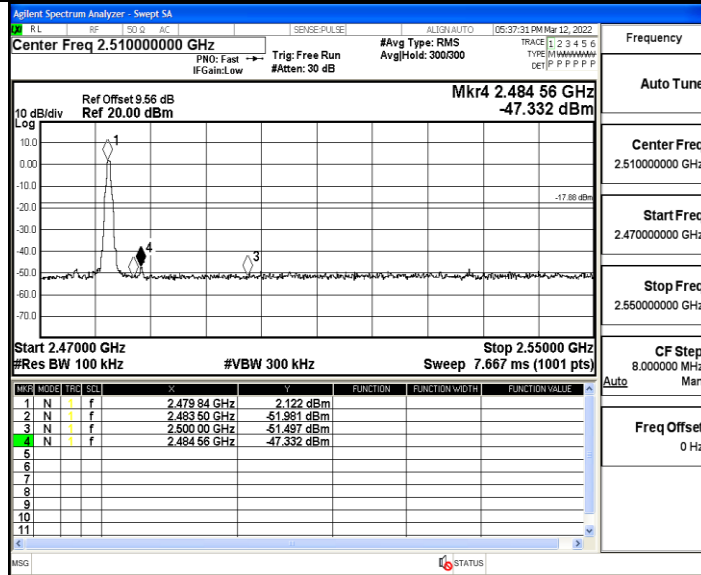
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.93	-46.67	≤-19.08	PASS
		High	2480	2.12	-47.33	≤-17.88	PASS
		Low	Hop_2402	-3.54	-48.98	≤-23.54	PASS
		High	Hop_2480	-2.68	-49.48	≤-22.68	PASS
2DH5	Ant1	Low	2402	-3.56	-49.72	≤-23.56	PASS
		High	2480	-3.02	-48.53	≤-23.02	PASS
		Low	Hop_2402	-5.90	-49.16	≤-25.9	PASS
		High	Hop_2480	-3.59	-48.69	≤-23.59	PASS
3DH5	Ant1	Low	2402	-3.02	-50.01	≤-23.02	PASS
		High	2480	-2.43	-48.99	≤-22.43	PASS
		Low	Hop_2402	-5.63	-49.05	≤-25.63	PASS
		High	Hop_2480	-4.29	-48.75	≤-24.29	PASS

Test Graph

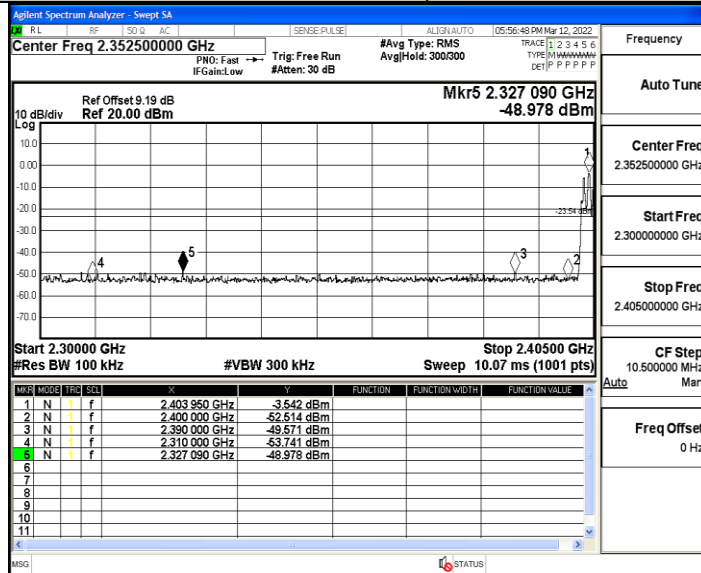
DH5_Ant1_Low_2402



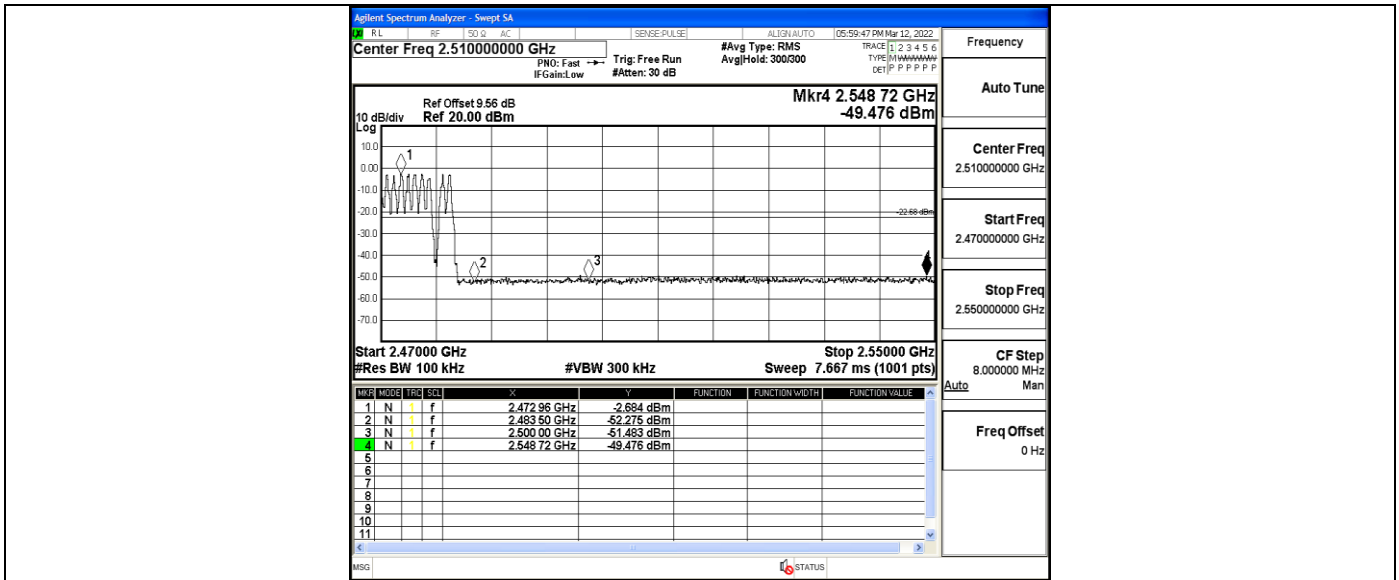
DH5_Ant1_High_2480



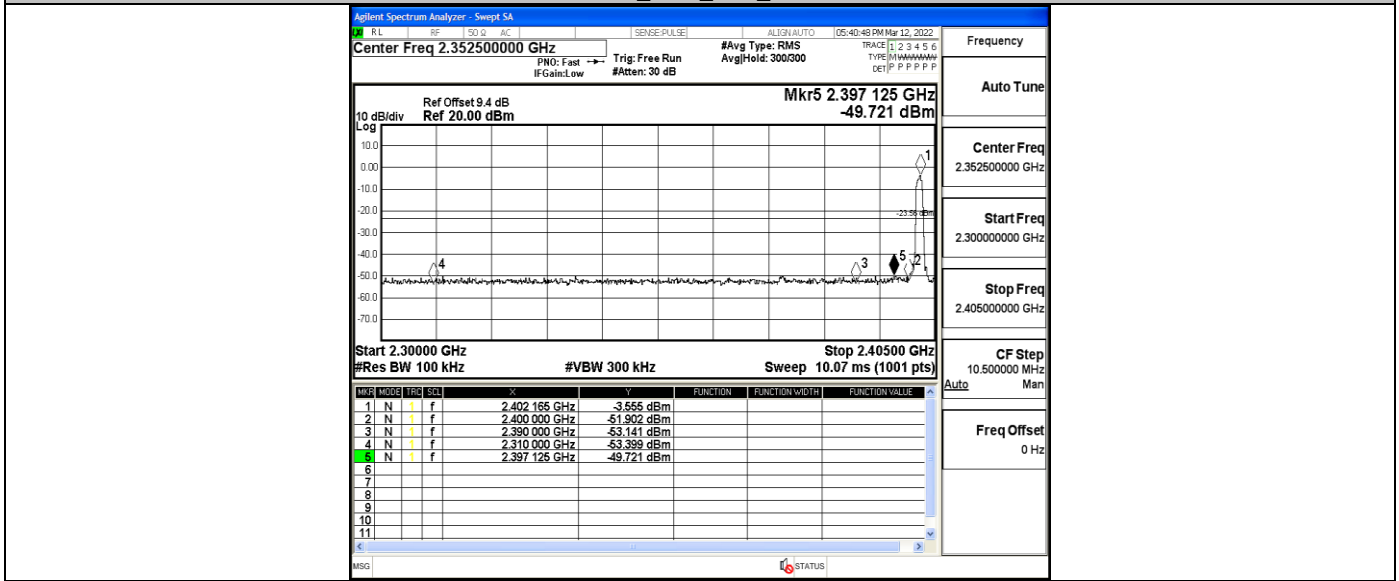
DH5_Ant1_Low_Hop_2402



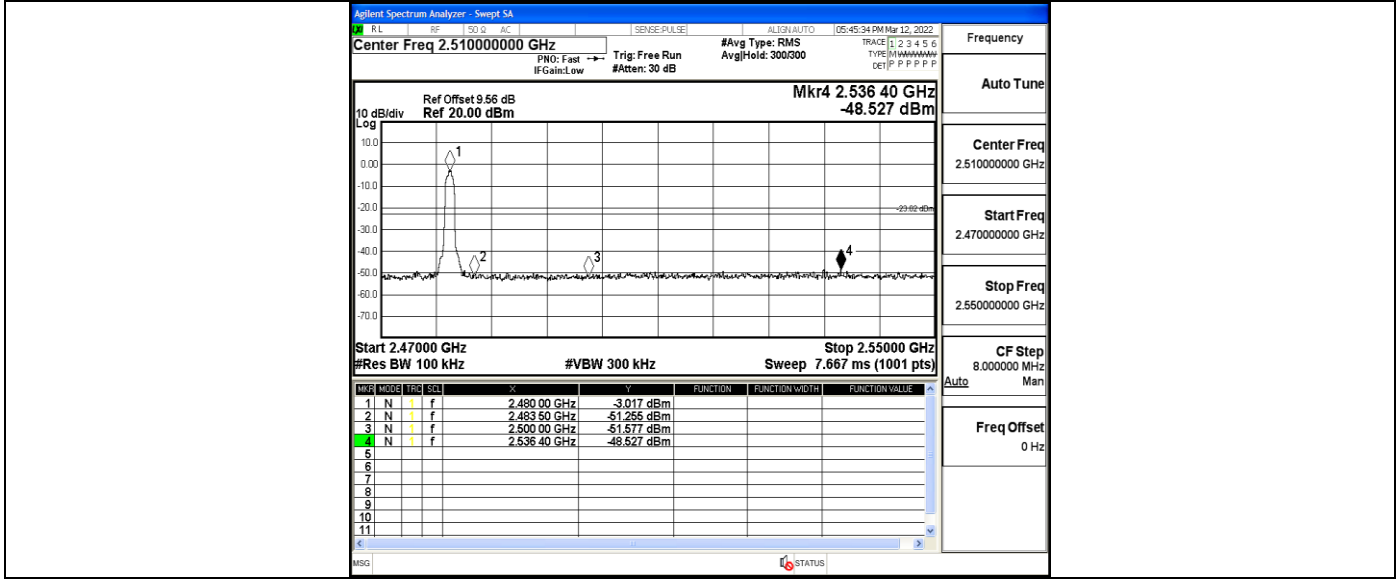
DH5_Ant1_High_Hop_2480



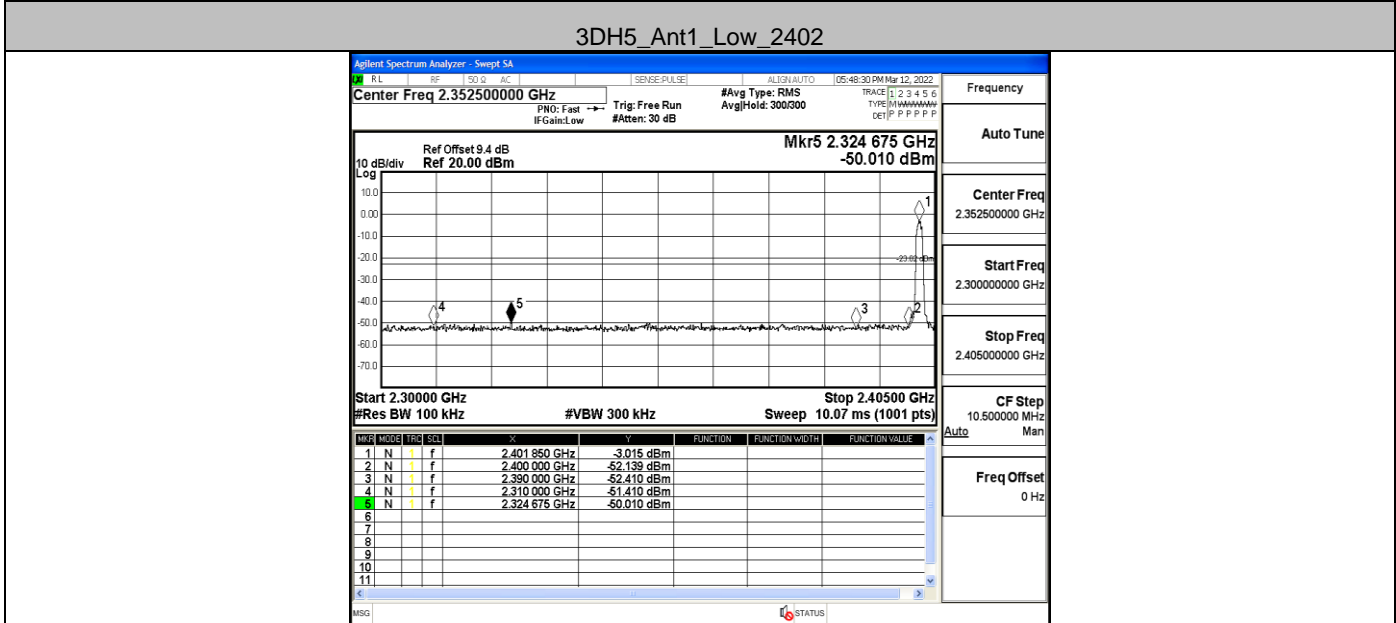
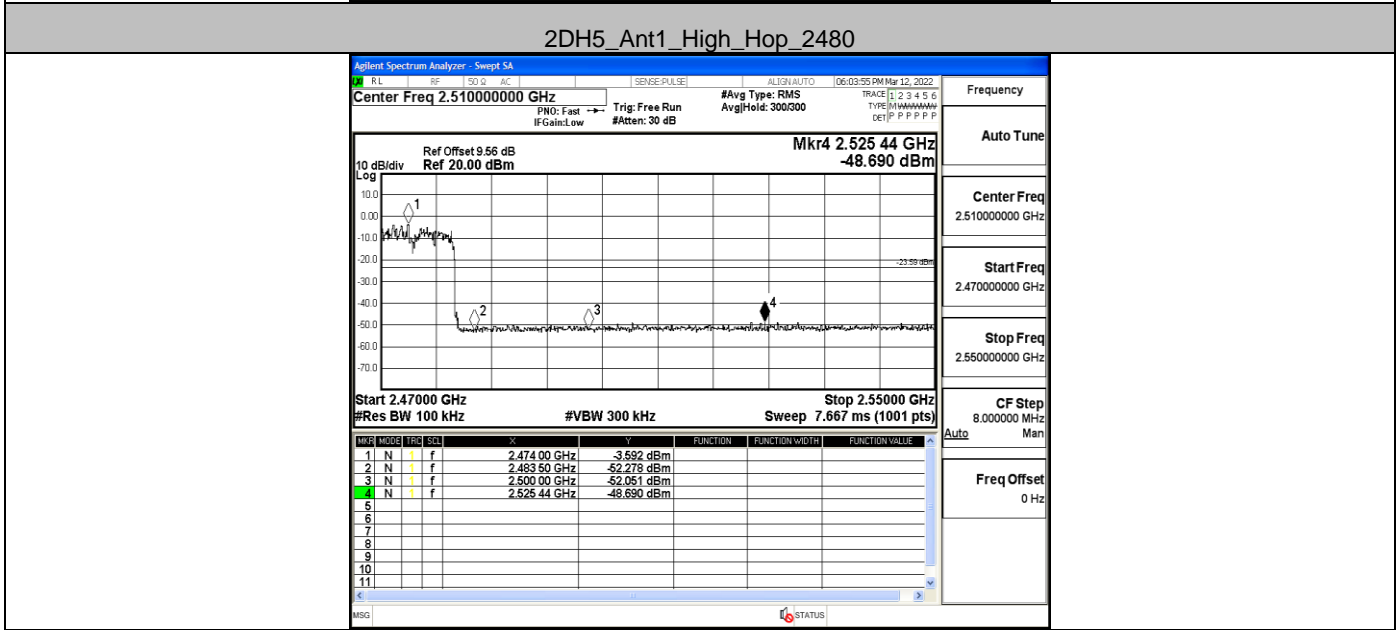
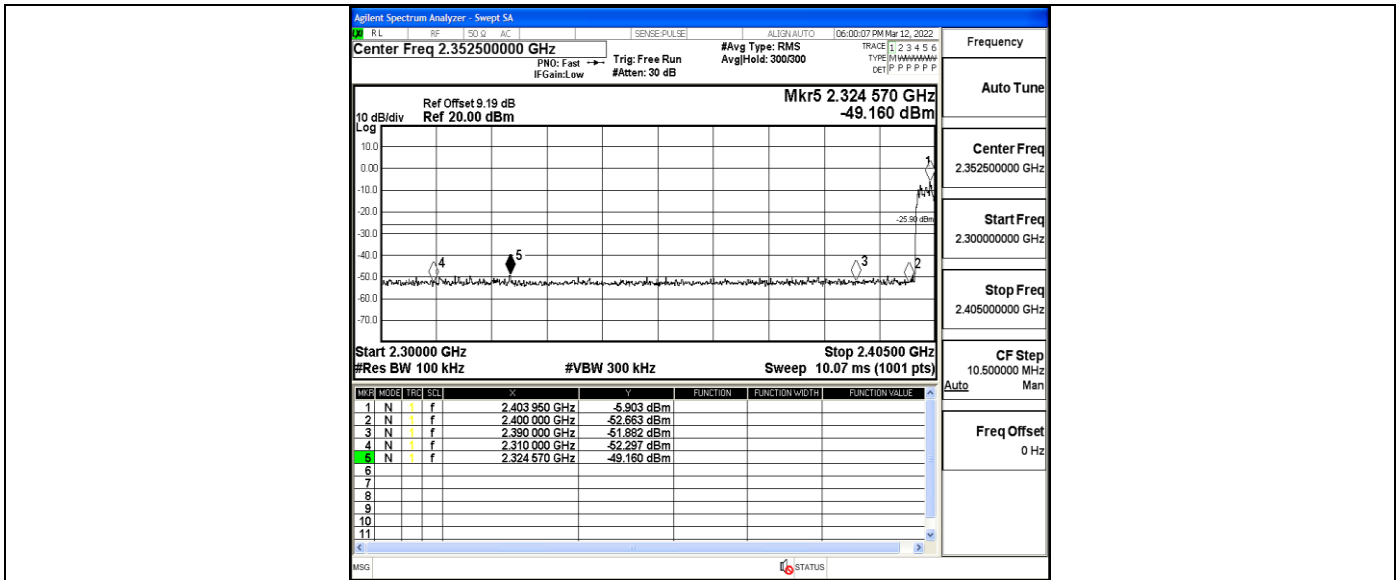
2D5_Ant1_Low_2402

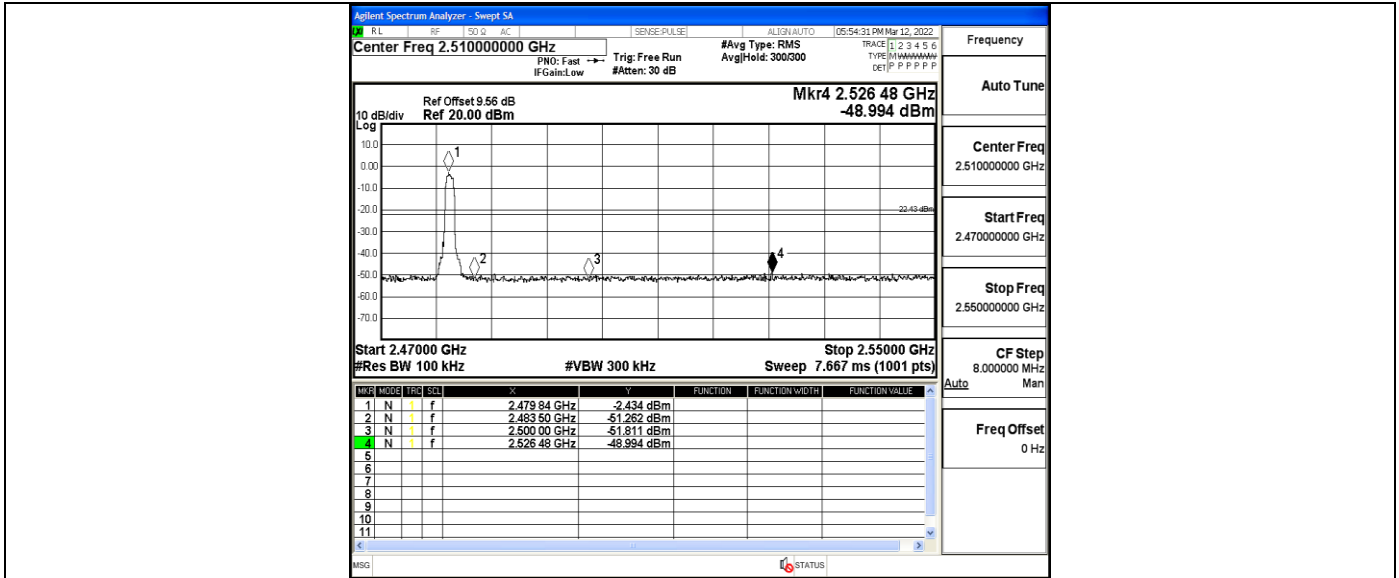


2D5_Ant1_High_2480

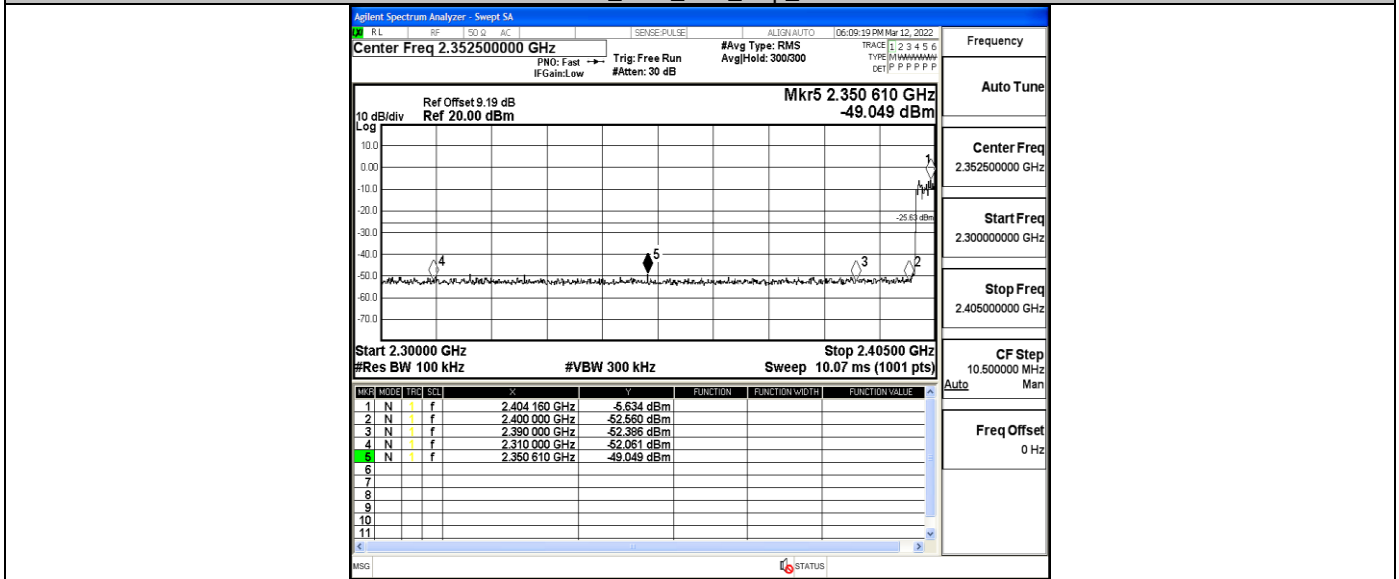


2D5_Ant1_Low_Hop_2402

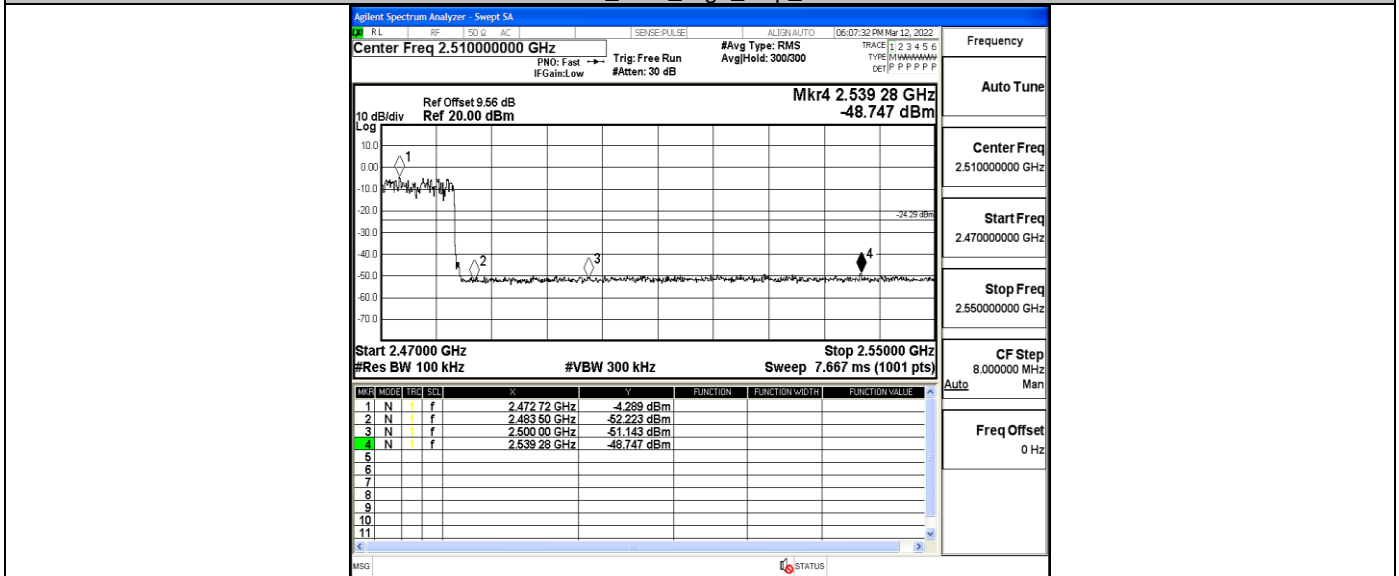




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

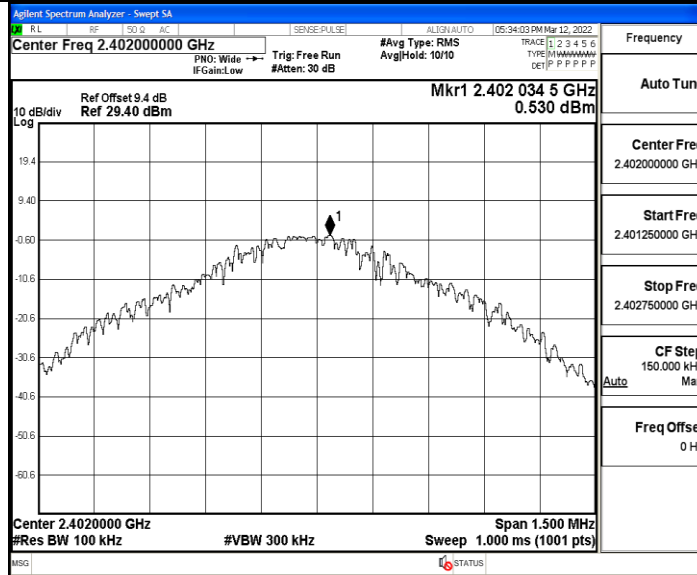


A.7 RF Conducted Spurious Emission**Test Result**

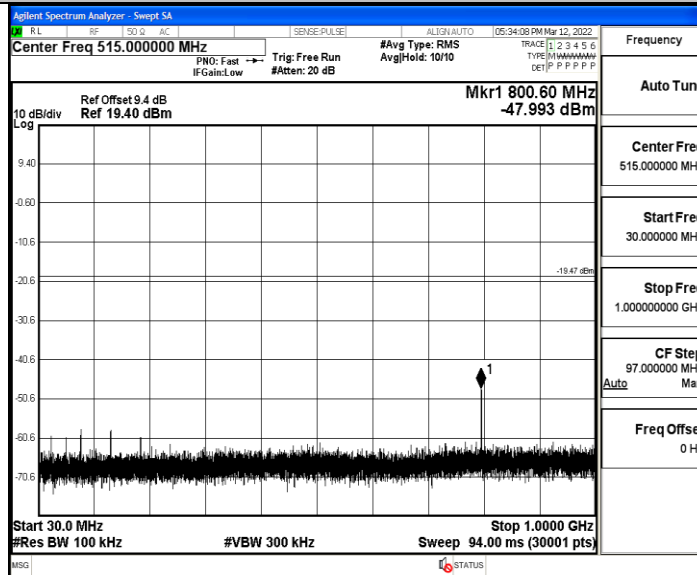
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.53	0.53	---	PASS
			30~1000	0.53	-47.99	≤-19.47	PASS
			1000~26500	0.53	-36.63	≤-19.47	PASS
		2441	Reference	0.82	0.82	---	PASS
			30~1000	0.82	-47.61	≤-19.18	PASS
			1000~26500	0.82	-36.65	≤-19.18	PASS
		2480	Reference	1.46	1.46	---	PASS
			30~1000	1.46	-47.97	≤-18.54	PASS
			1000~26500	1.46	-37.66	≤-18.54	PASS
2DH5	Ant1	2402	Reference	-5.45	-5.45	---	PASS
			30~1000	-5.45	-54.68	≤-25.45	PASS
			1000~26500	-5.45	-46.09	≤-25.45	PASS
		2441	Reference	-4.16	-4.16	---	PASS
			30~1000	-4.16	-52.95	≤-24.16	PASS
			1000~26500	-4.16	-45.12	≤-24.16	PASS
		2480	Reference	-5.25	-5.25	---	PASS
			30~1000	-5.25	-52.89	≤-25.25	PASS
			1000~26500	-5.25	-45.12	≤-25.25	PASS
3DH5	Ant1	2402	Reference	-5.50	-5.50	---	PASS
			30~1000	-5.50	-54.82	≤-25.5	PASS
			1000~26500	-5.50	-44.71	≤-25.5	PASS
		2441	Reference	-5.31	-5.31	---	PASS
			30~1000	-5.31	-54.06	≤-25.31	PASS
			1000~26500	-5.31	-43.96	≤-25.31	PASS
		2480	Reference	-3.29	-3.29	---	PASS
			30~1000	-3.29	-52.96	≤-23.29	PASS
			1000~26500	-3.29	-43.54	≤-23.29	PASS

Test Graphs

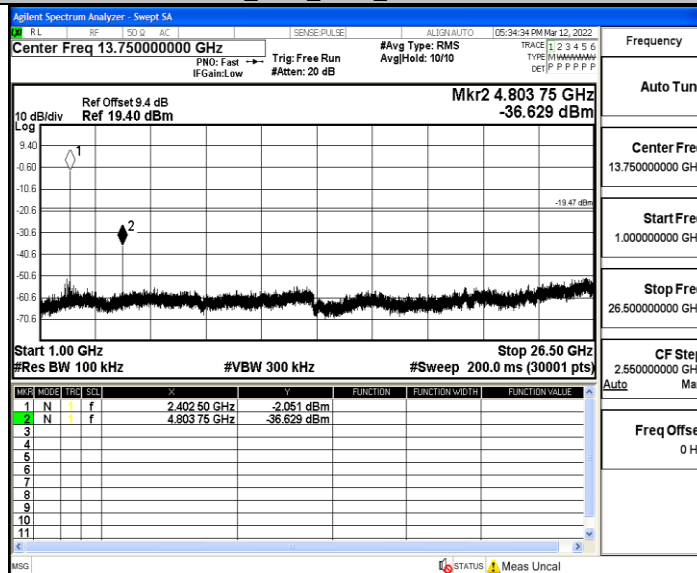
DH5_Ant1_2402_0-Reference



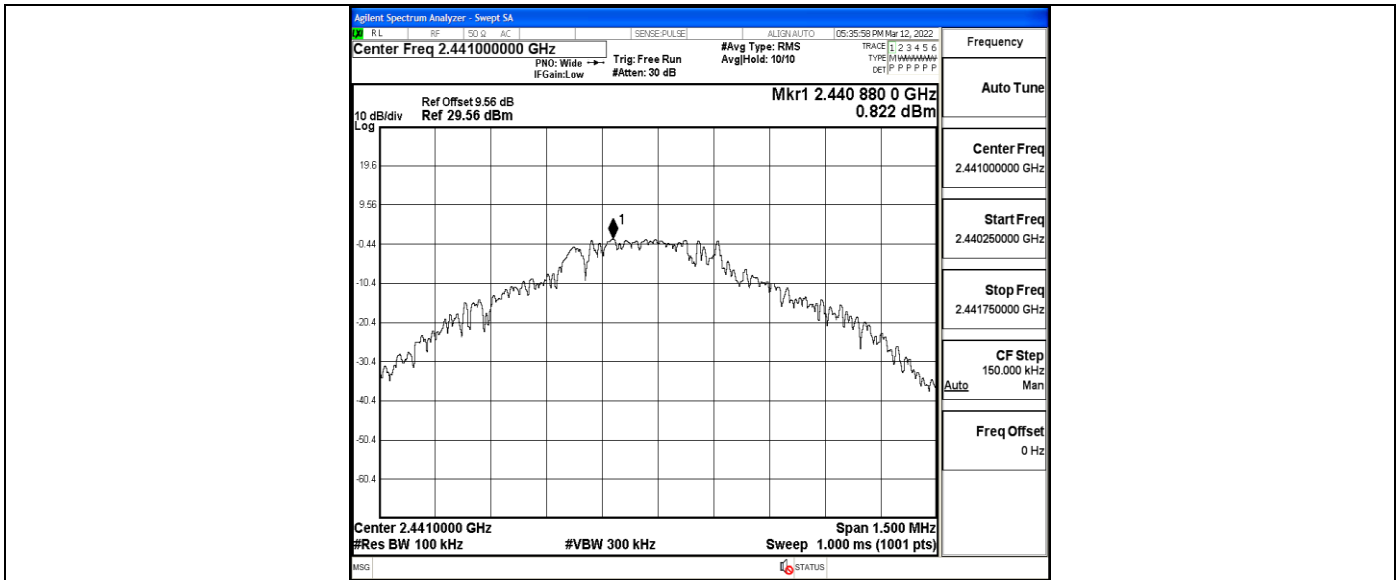
DH5_Ant1_2402_30-1000



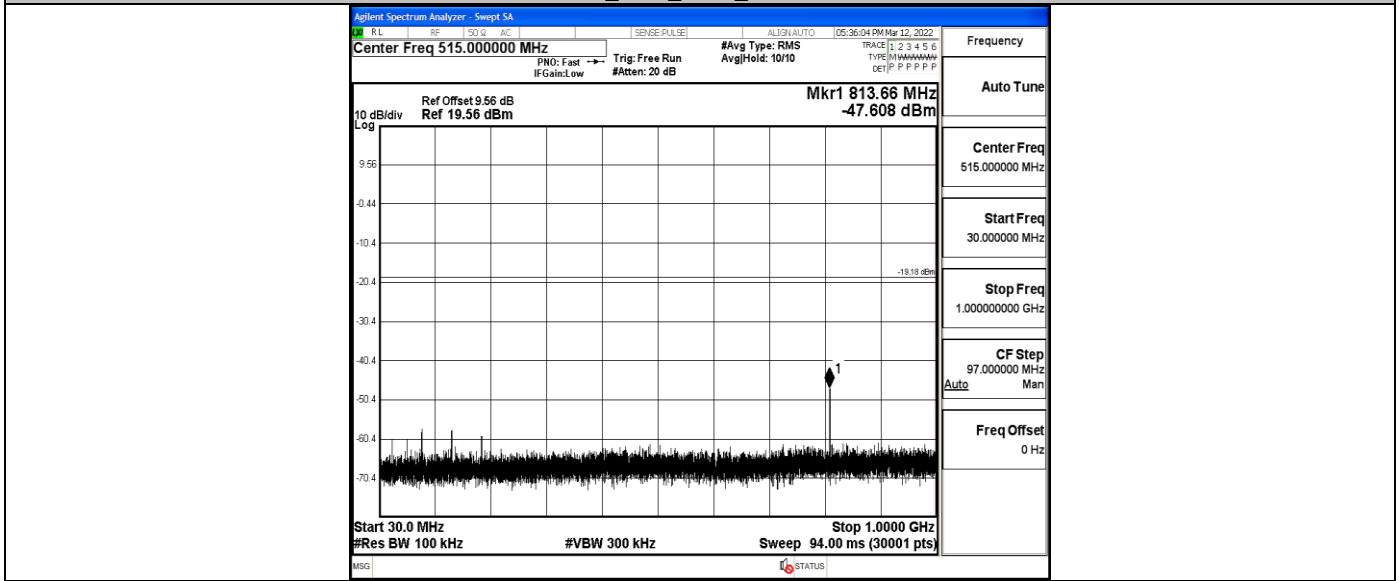
DH5_Ant1_2402_1000~26500



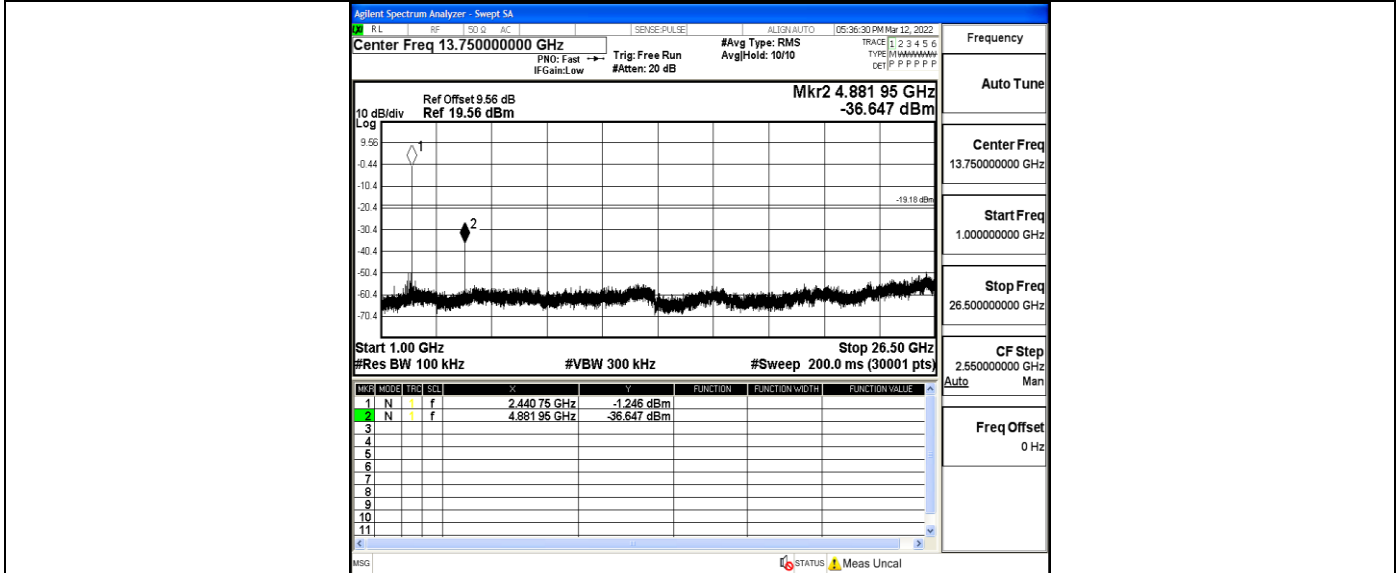
DH5_Ant1_2441_0-Reference



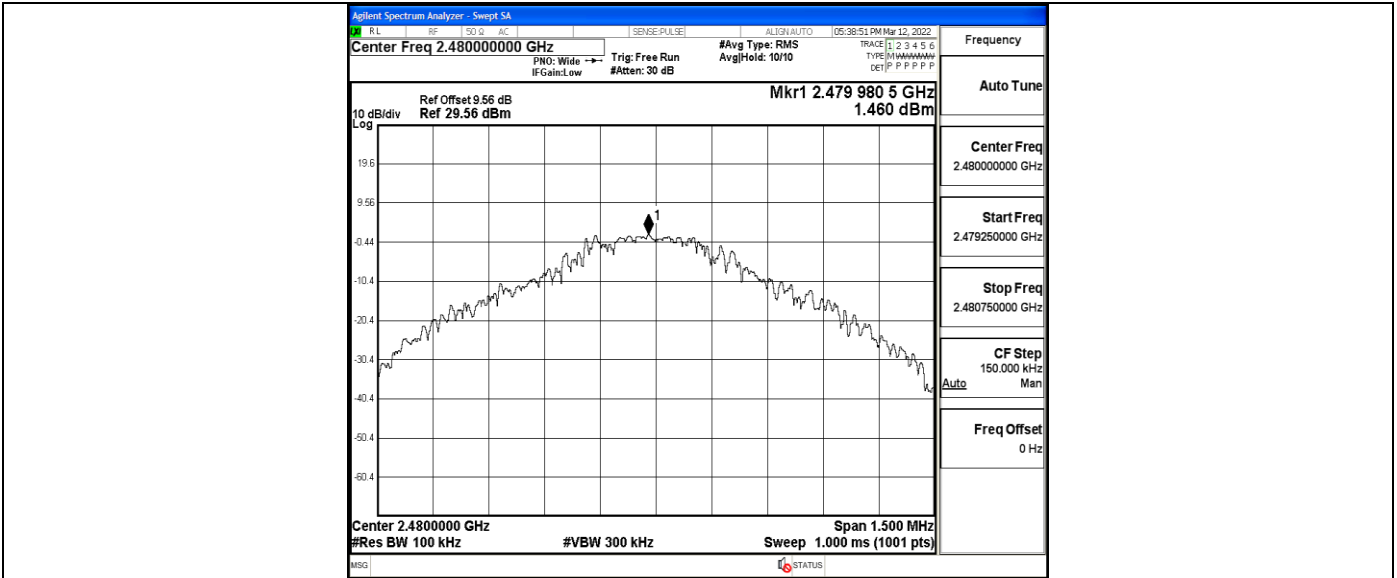
DH5_Ant1_2441_30~1000



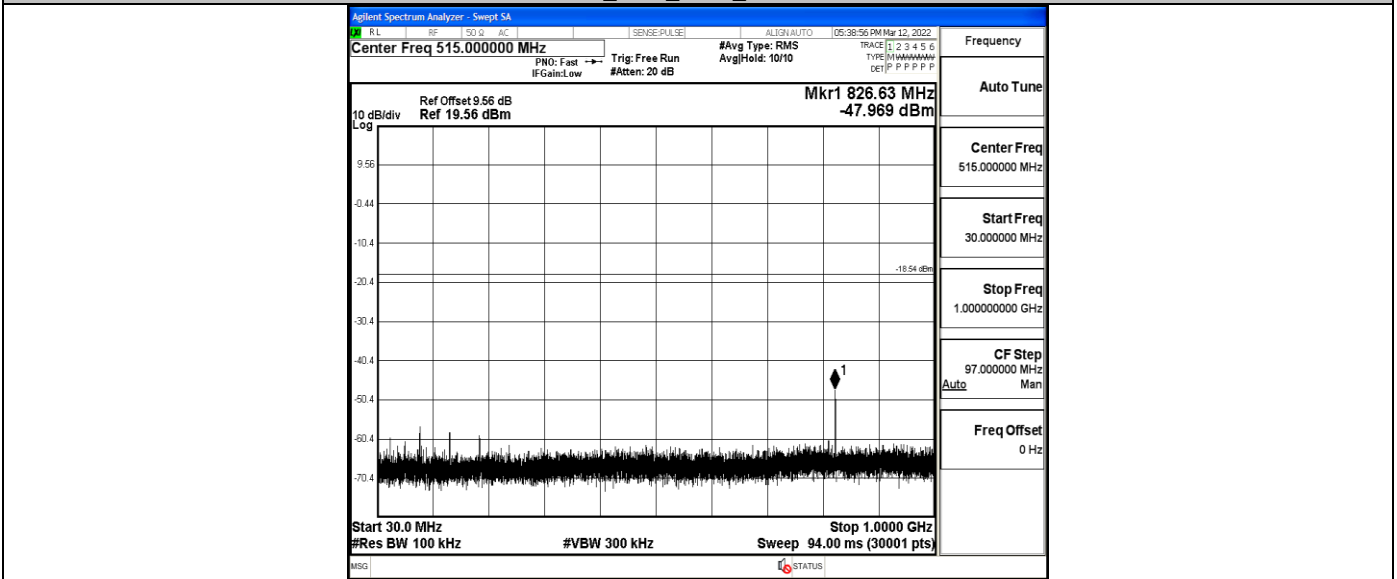
DH5_Ant1_2441_1000~26500



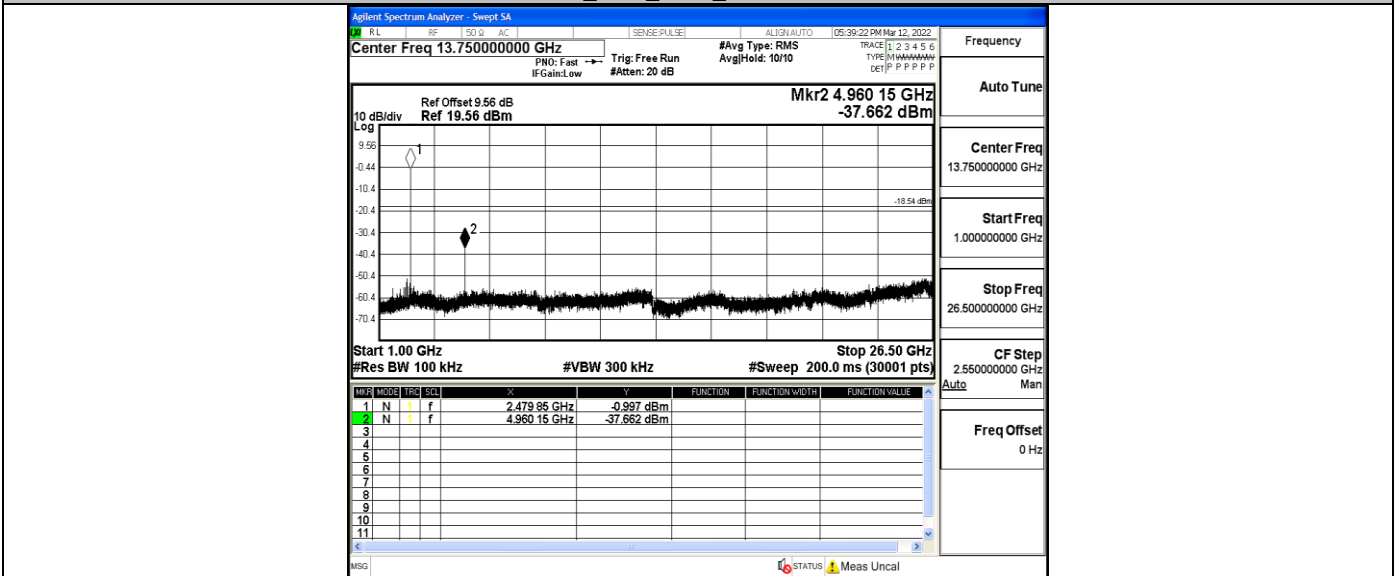
DH5_Ant1_2480_0~Reference



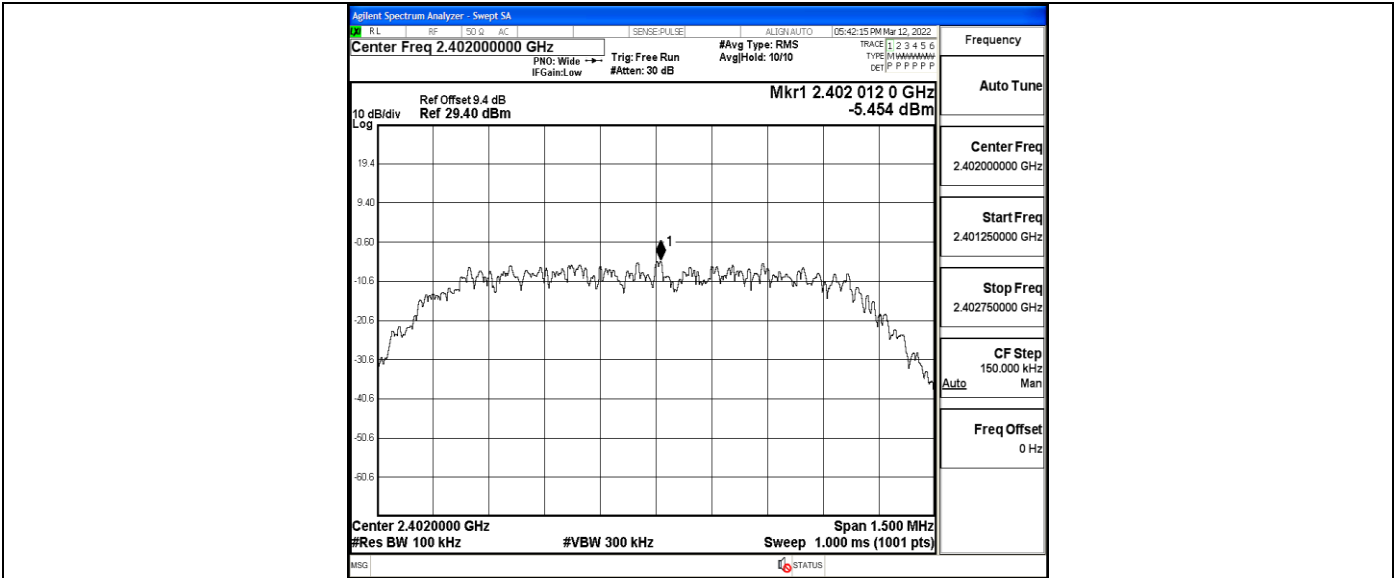
DH5_Ant1_2480_30~1000



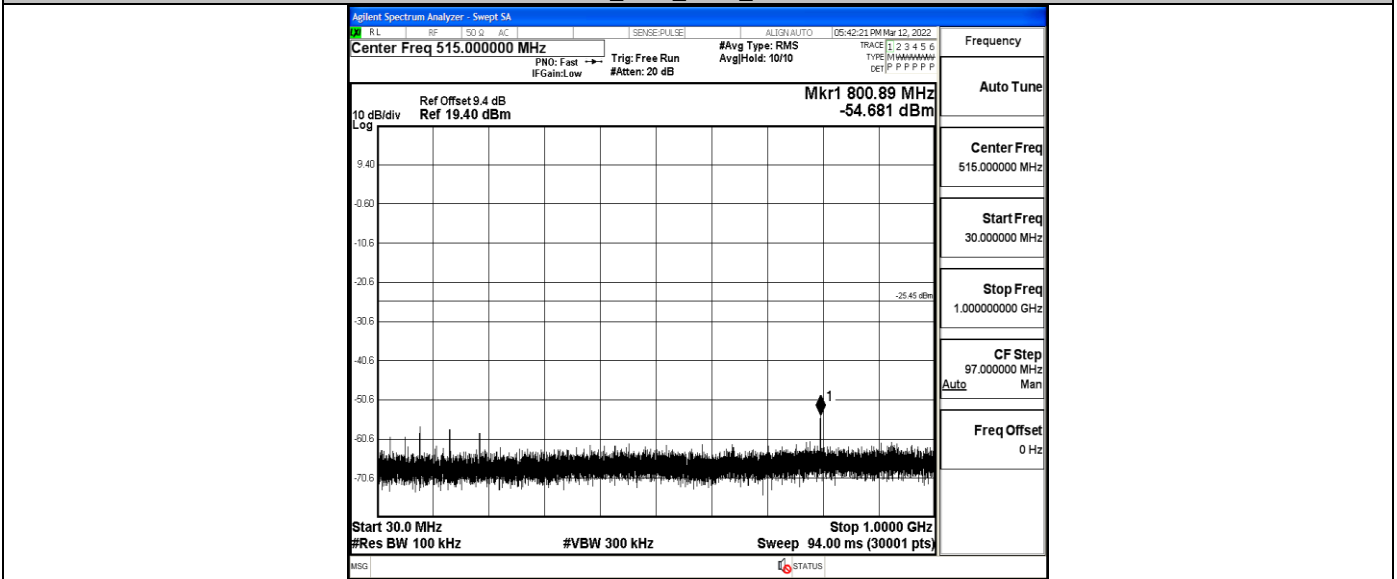
DH5_Ant1_2480_1000~26500



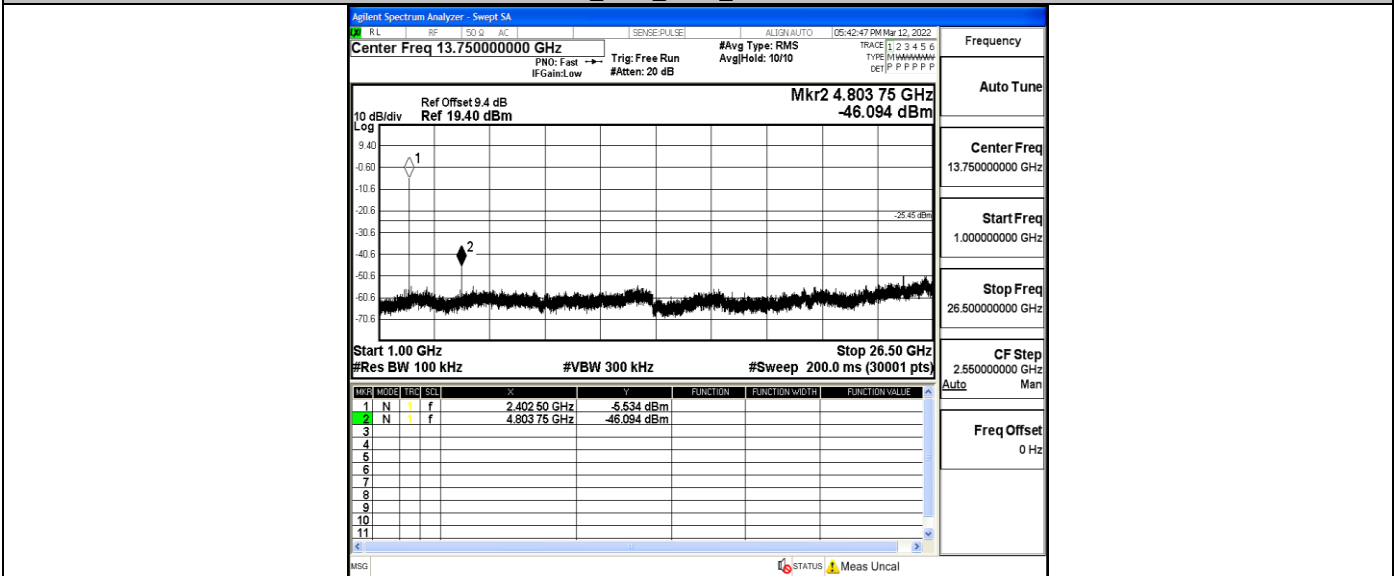
2DH5_Ant1_2402_0~Reference



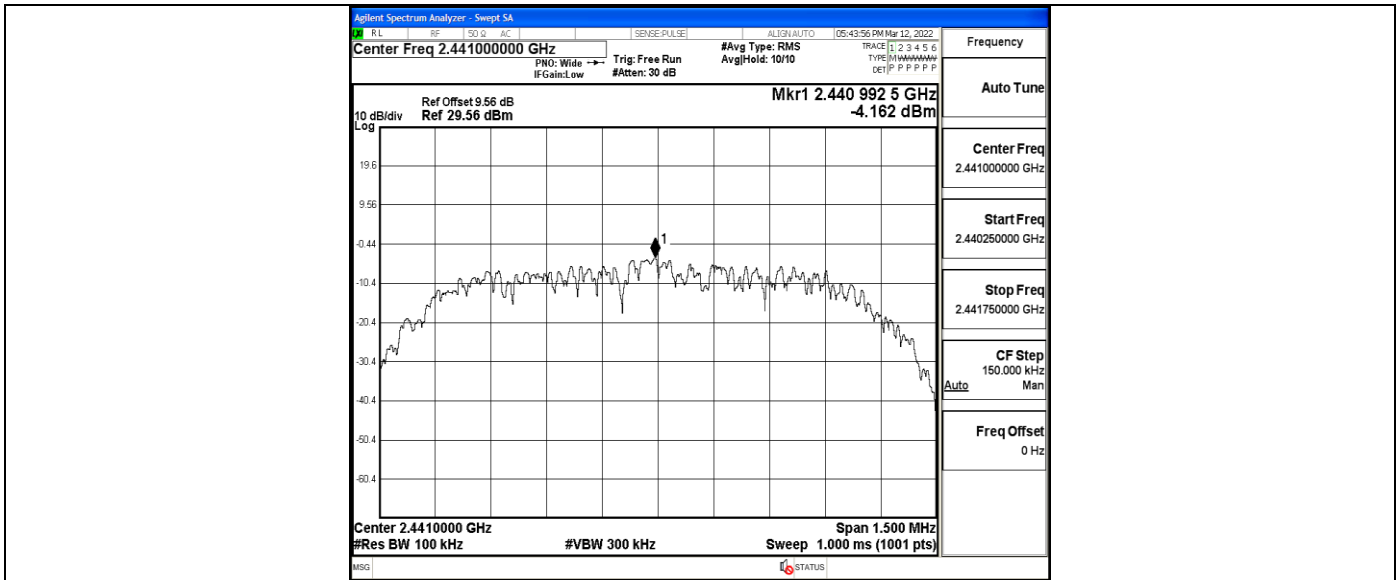
2DH5_Ant1_2402_30~1000



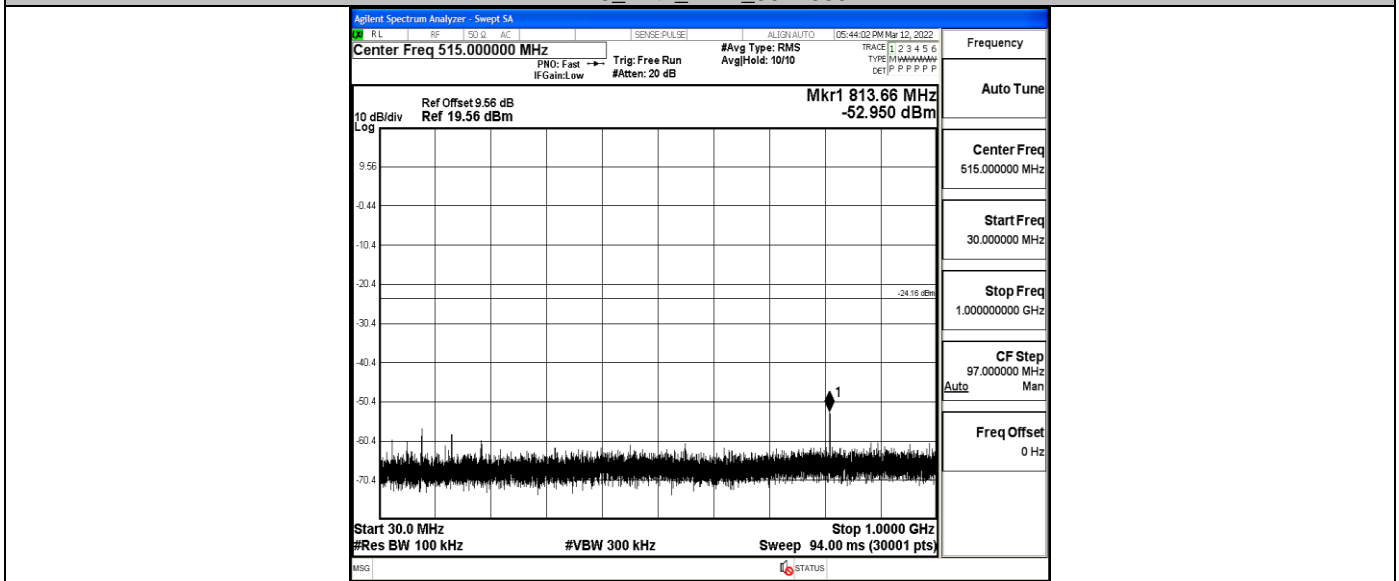
2DH5_Ant1_2402_1000~26500



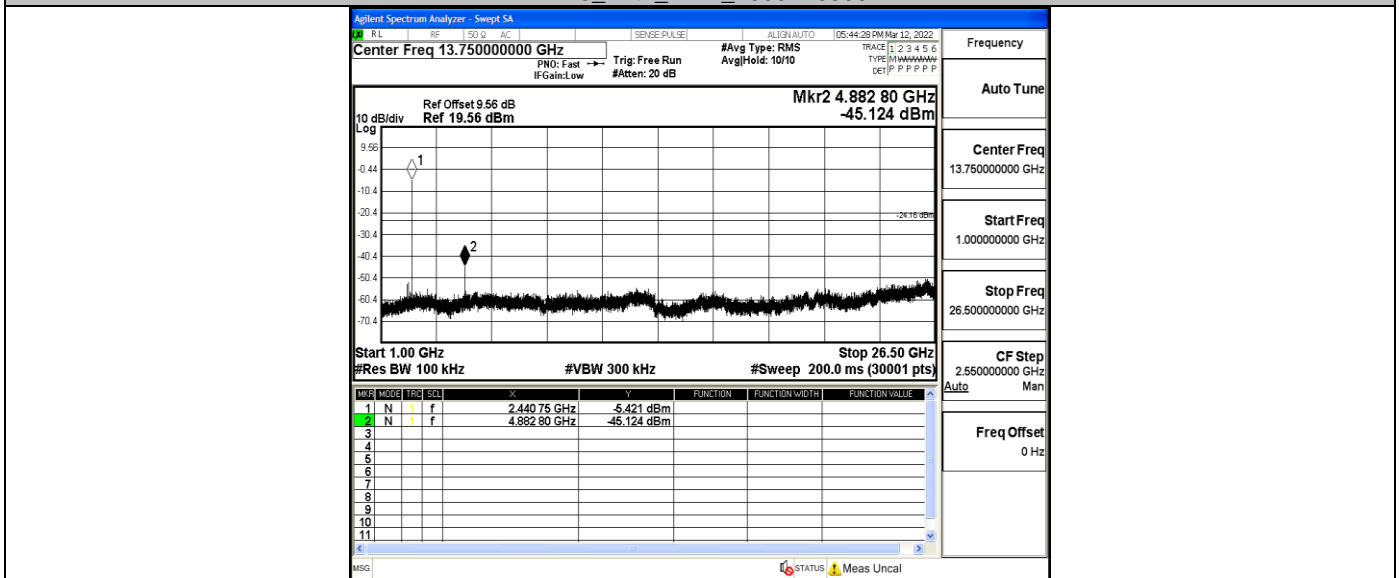
2DH5_Ant1_2441_0~Reference



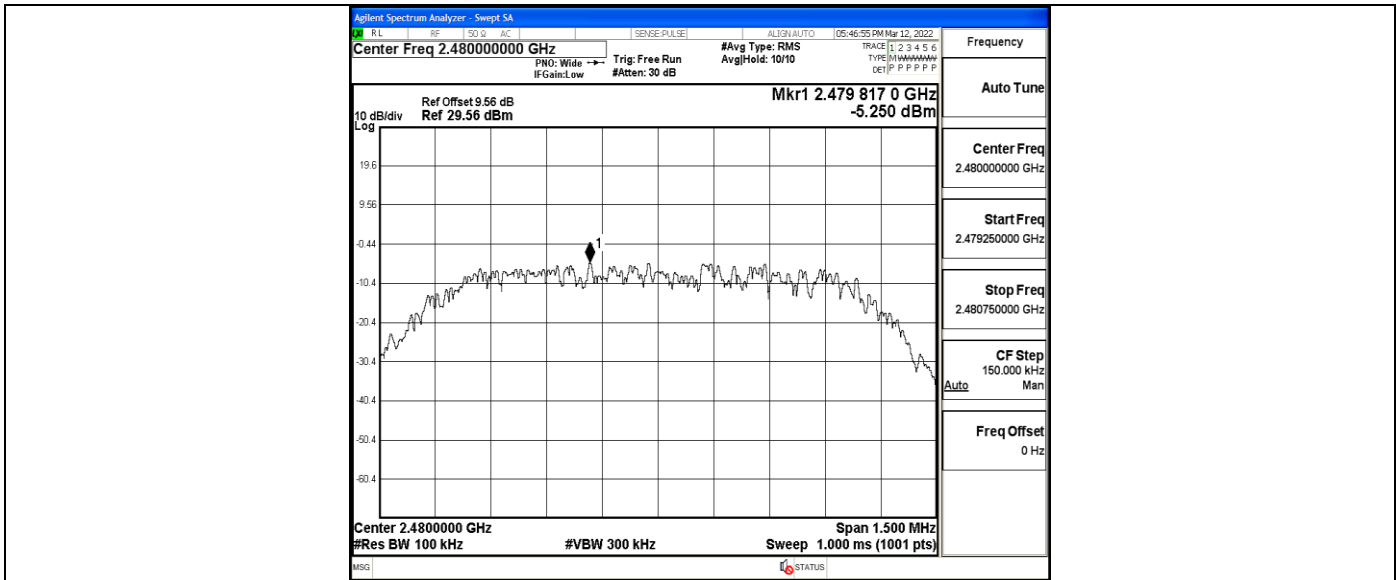
2DH5_Ant1_2441_30~1000



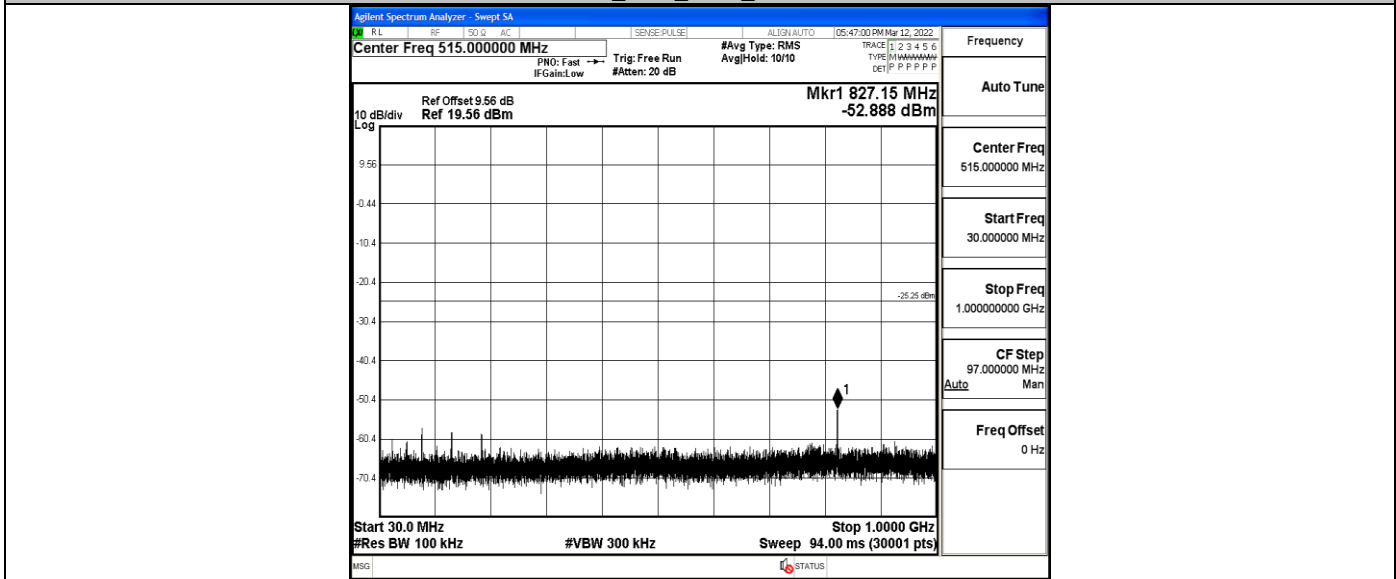
2DH5_Ant1_2441_1000~26500



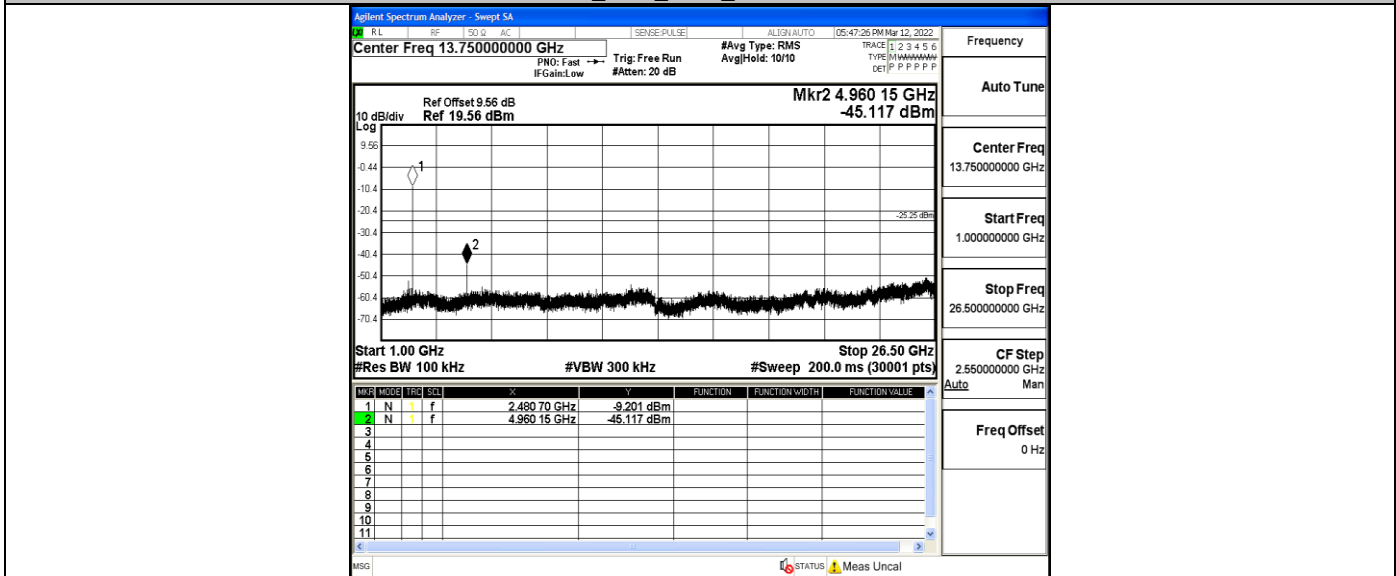
2DH5_Ant1_2480_0~Reference



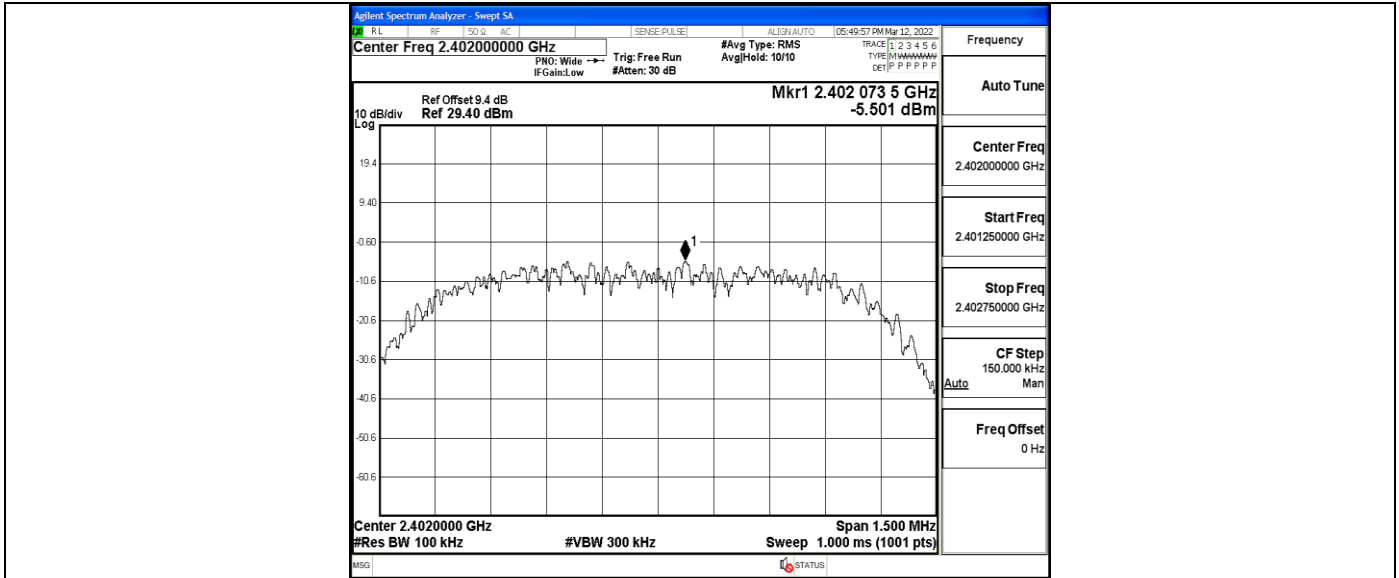
2DH5_Ant1_2480_30~1000



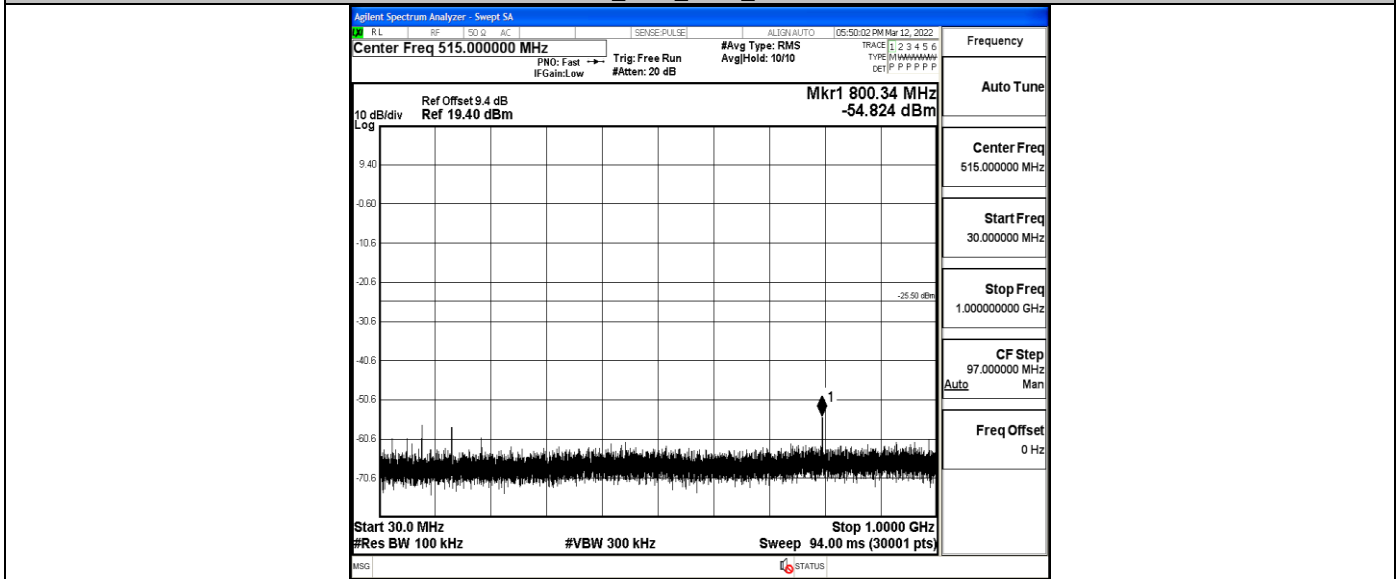
2DH5_Ant1_2480_1000~26500



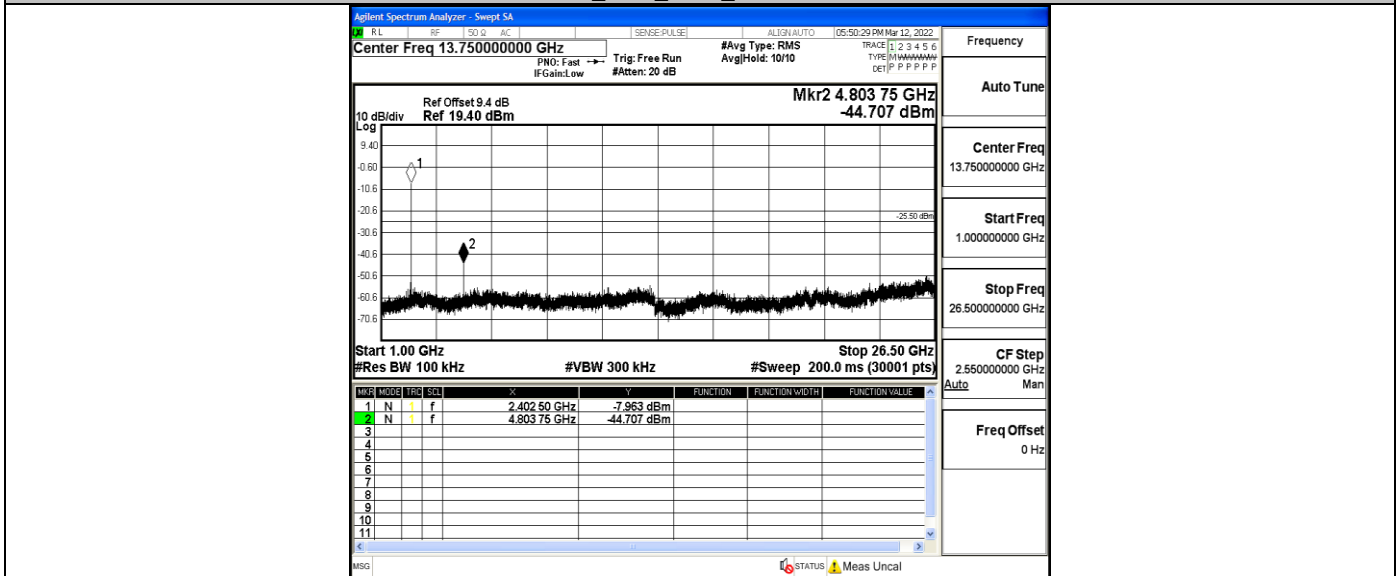
3DH5_Ant1_2402_0~Reference



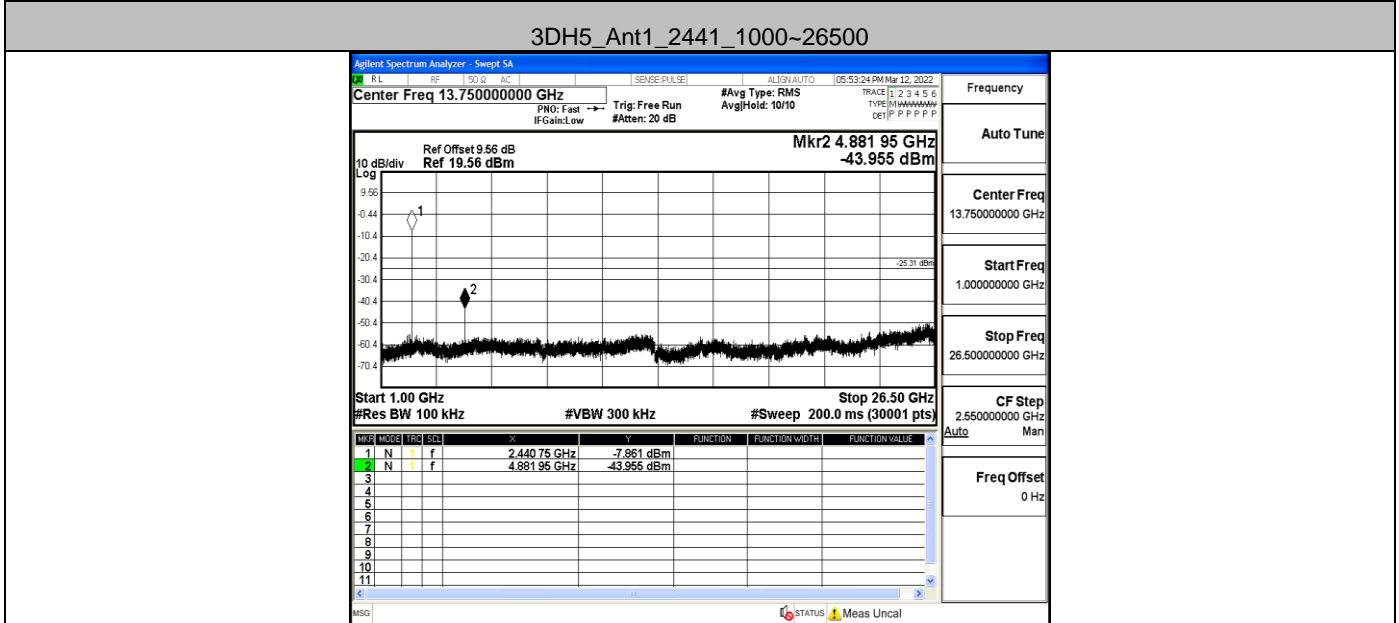
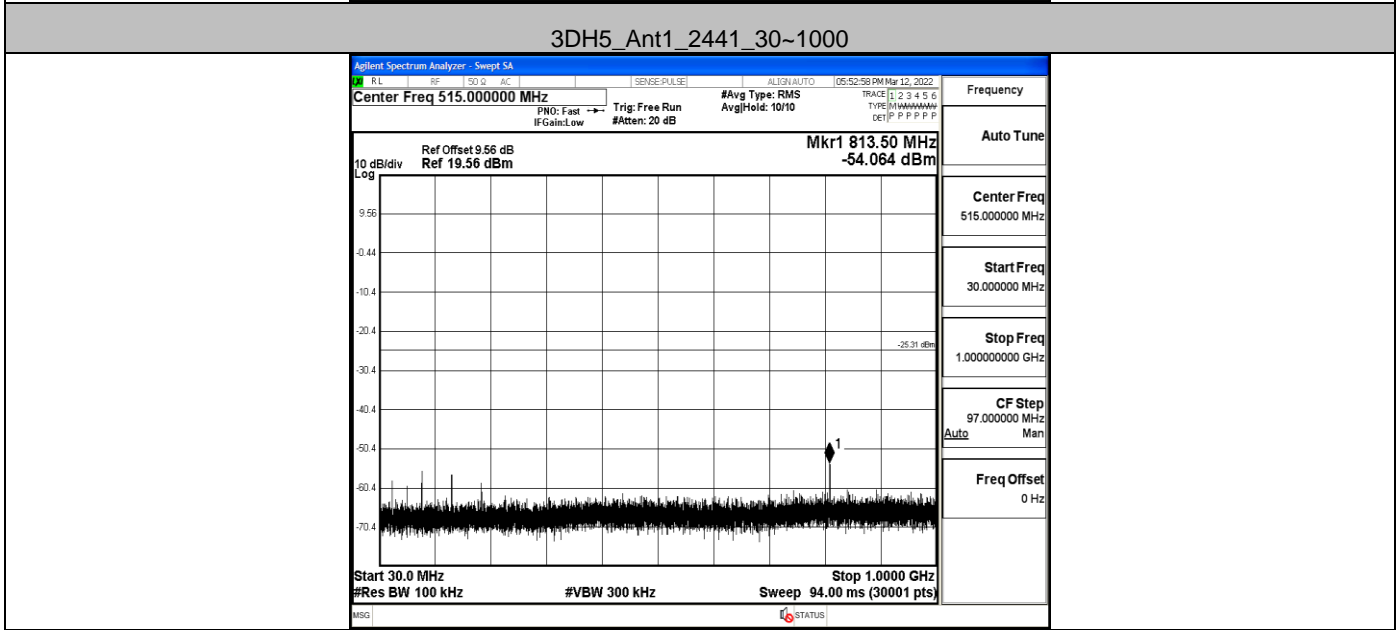
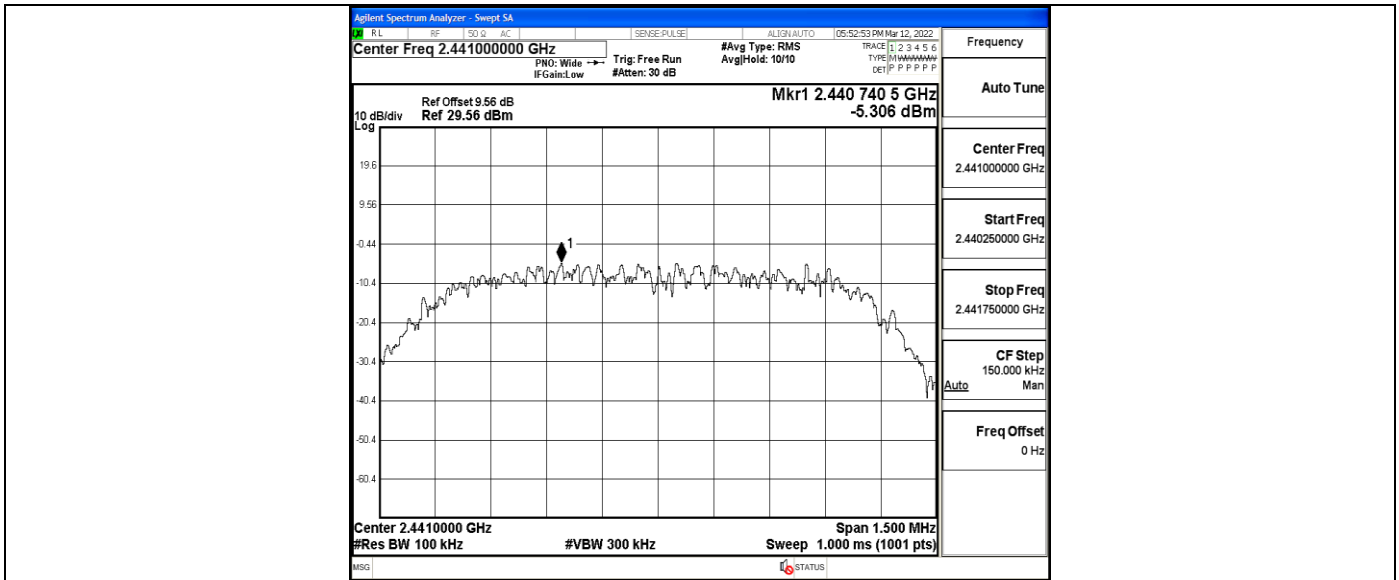
3DH5_Ant1_2402_30~1000



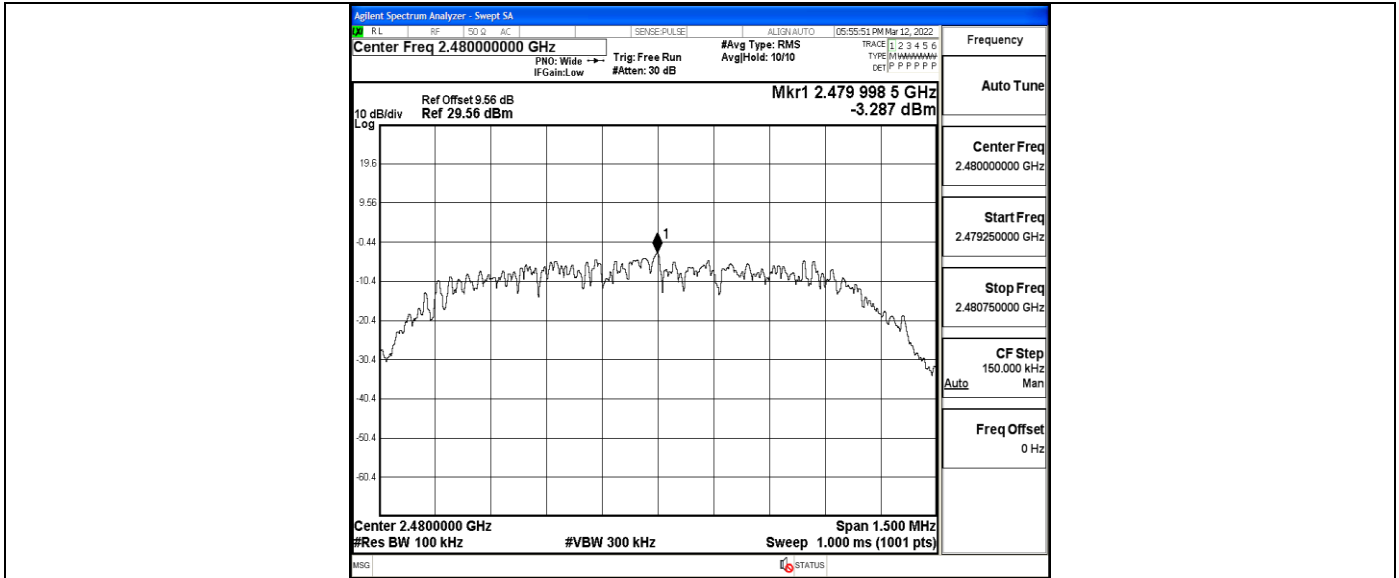
3DH5_Ant1_2402_1000~26500



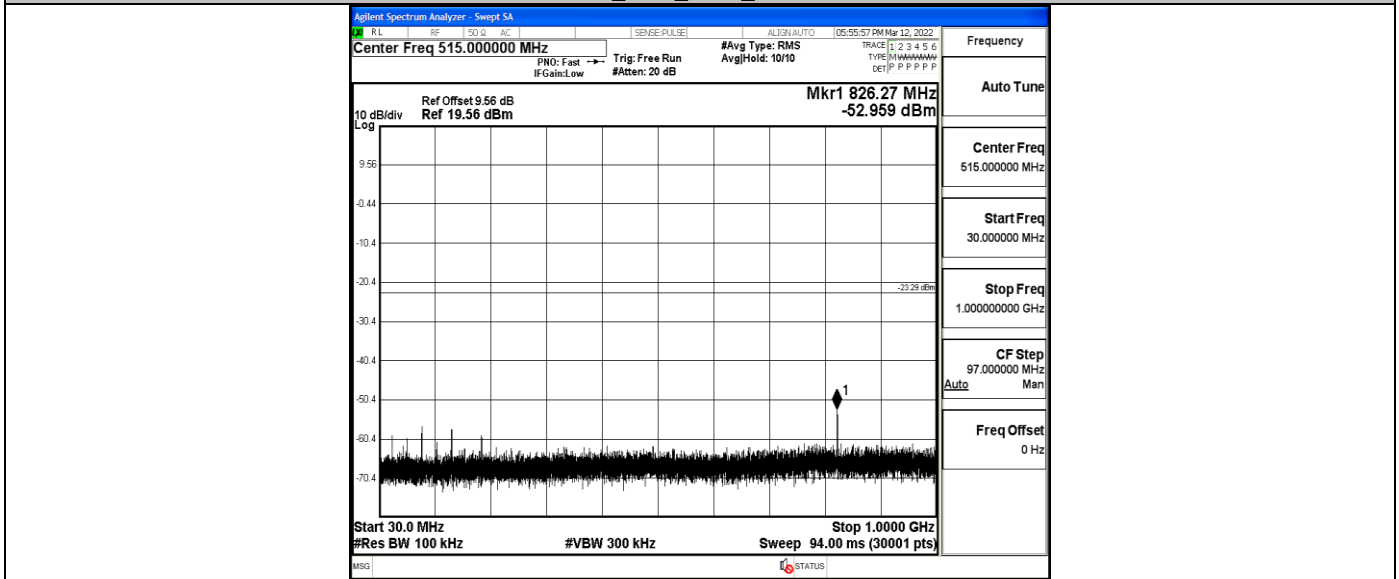
3DH5_Ant1_2441_0~Reference



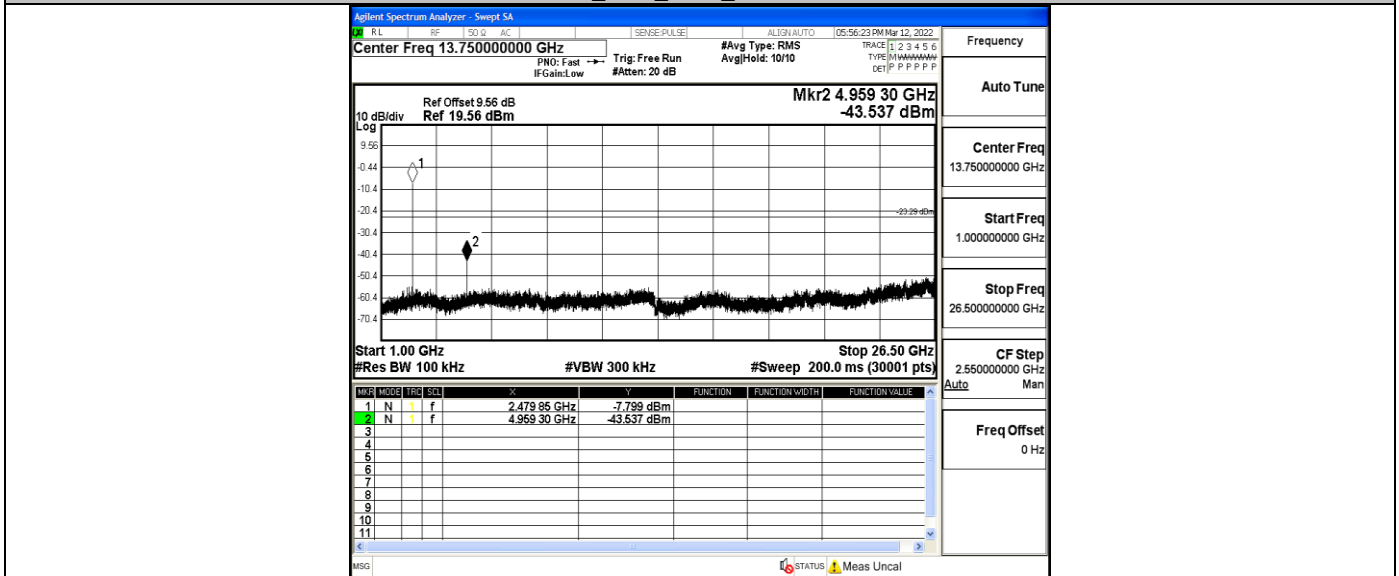
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



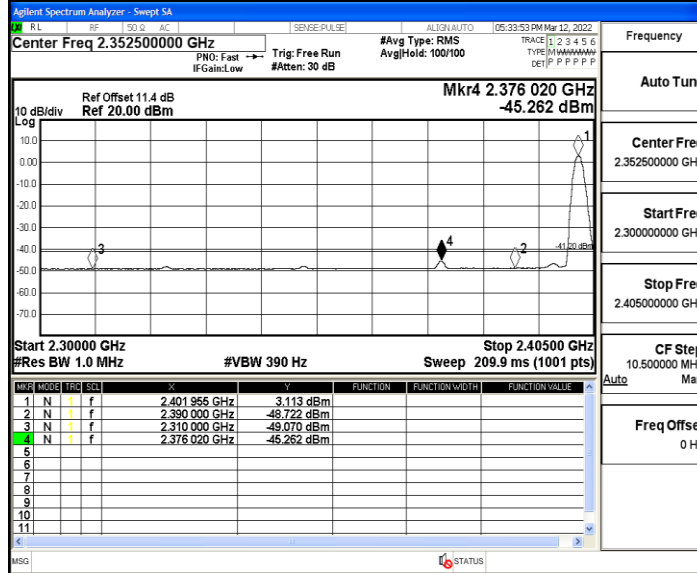
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.07	≤-41.20	PASS
				AV	2376.020	-45.26	≤-41.20	PASS
				AV	2390.000	-48.72	≤-41.20	PASS
				Peak	2310.000	-42.81	≤-21.20	PASS
				Peak	2376.230	-37.48	≤-21.20	PASS
				Peak	2390.000	-42.51	≤-21.20	PASS
		High	2480	AV	2483.500	-47.42	≤-41.20	PASS
				AV	2484.640	-46.1	≤-41.20	PASS
				AV	2500.000	-48.07	≤-41.20	PASS
				Peak	2483.500	-40.82	≤-21.20	PASS
				Peak	2494.240	-37.81	≤-21.20	PASS
				Peak	2500.000	-39.88	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.95	≤-41.20	PASS
				AV	2376.125	-47.28	≤-41.20	PASS
				AV	2390.000	-48.68	≤-41.20	PASS
				Peak	2310.000	-42.47	≤-21.20	PASS
				Peak	2329.820	-38.91	≤-21.20	PASS
				Peak	2390.000	-42.13	≤-21.20	PASS
		High	2480	AV	2483.500	-47.69	≤-41.20	PASS
				AV	2484.880	-47.31	≤-41.20	PASS
				AV	2500.000	-48.01	≤-41.20	PASS
				Peak	2483.500	-39.38	≤-21.20	PASS
				Peak	2495.840	-36.8	≤-21.20	PASS
				Peak	2500.000	-40.88	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.98	≤-41.20	PASS
				AV	2376.020	-47.26	≤-41.20	PASS
				AV	2390.000	-48.67	≤-41.20	PASS
				Peak	2310.000	-43.12	≤-21.20	PASS
				Peak	2376.125	-38.04	≤-21.20	PASS
				Peak	2390.000	-41.86	≤-21.20	PASS
		High	2480	AV	2483.500	-47.77	≤-41.20	PASS
				AV	2484.960	-47.47	≤-41.20	PASS
				AV	2500.000	-47.95	≤-41.20	PASS
				Peak	2483.500	-40.82	≤-21.20	PASS
				Peak	2485.120	-38.13	≤-21.20	PASS
				Peak	2500.000	-40.46	≤-21.20	PASS

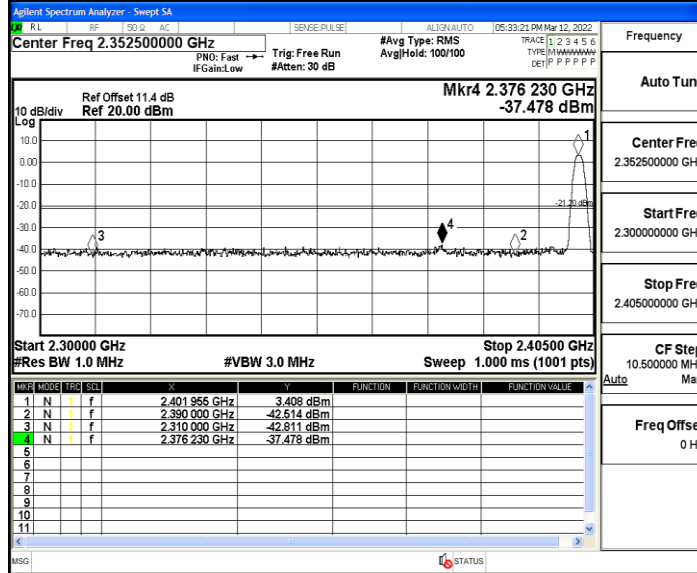
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

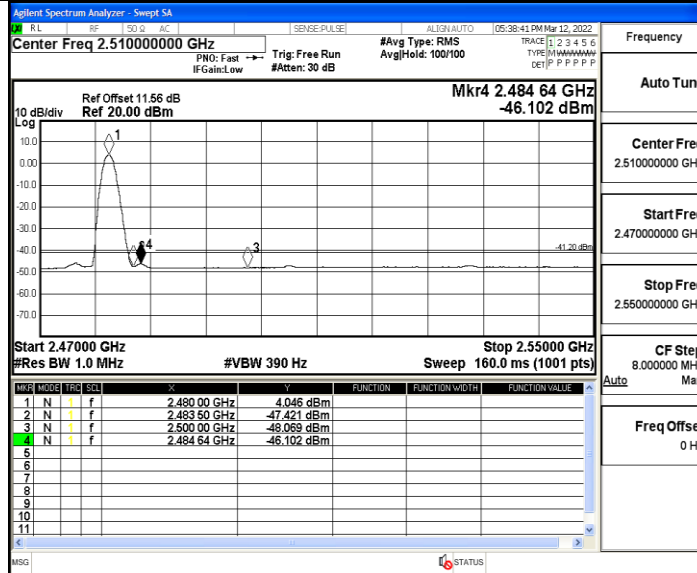
DH5_Ant1_Low_2402_AV



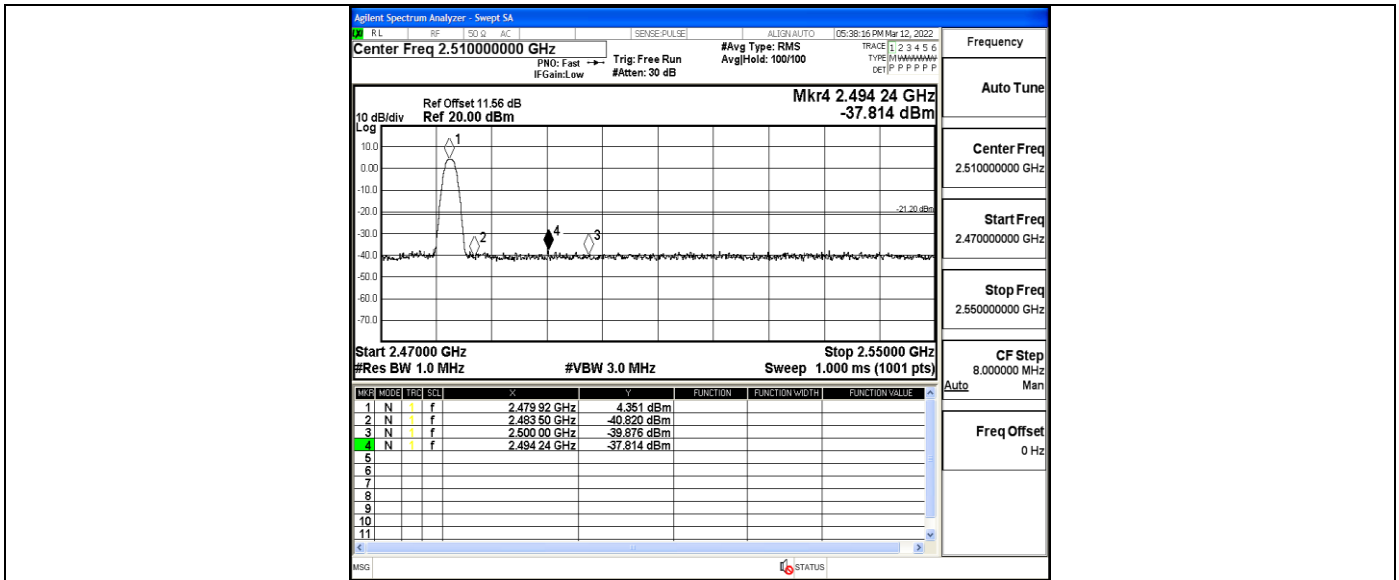
DH5_Ant1_Low_2402_Peak



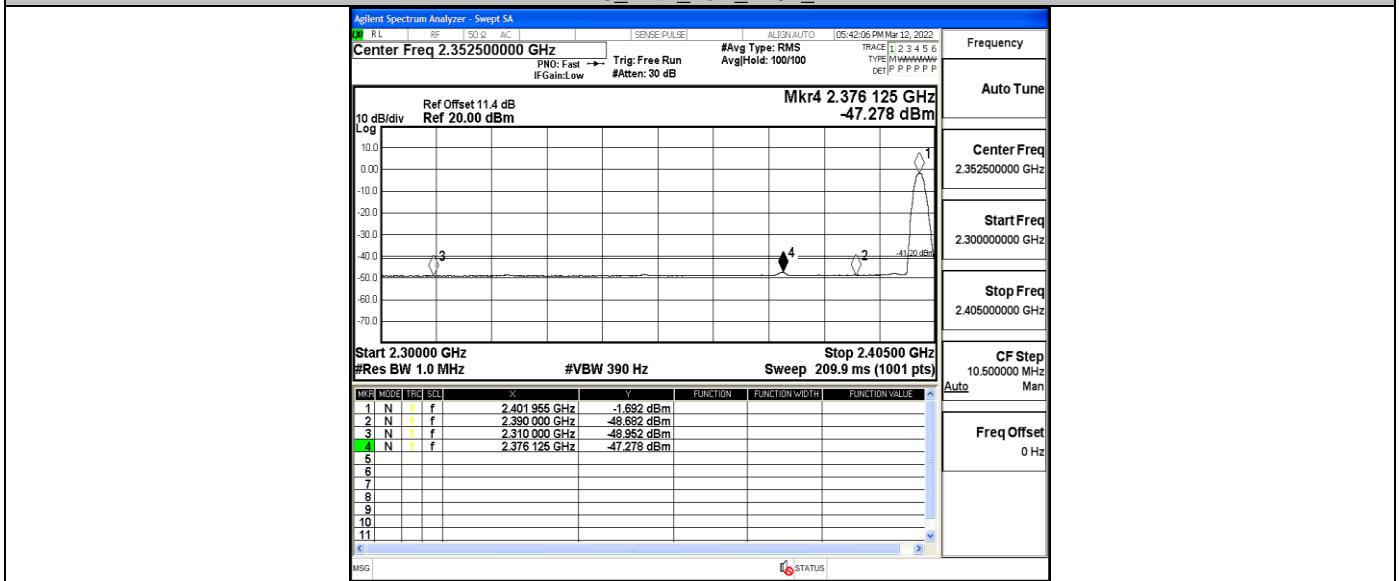
DH5_Ant1_High_2480_AV



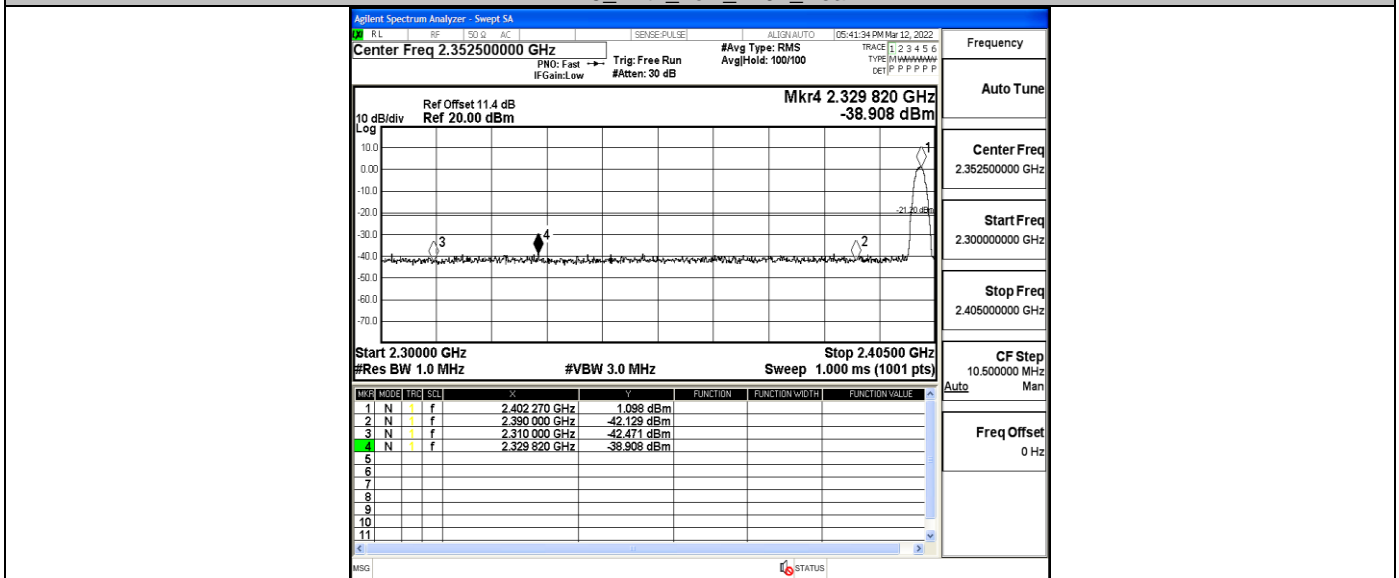
DH5_Ant1_High_2480_Peak



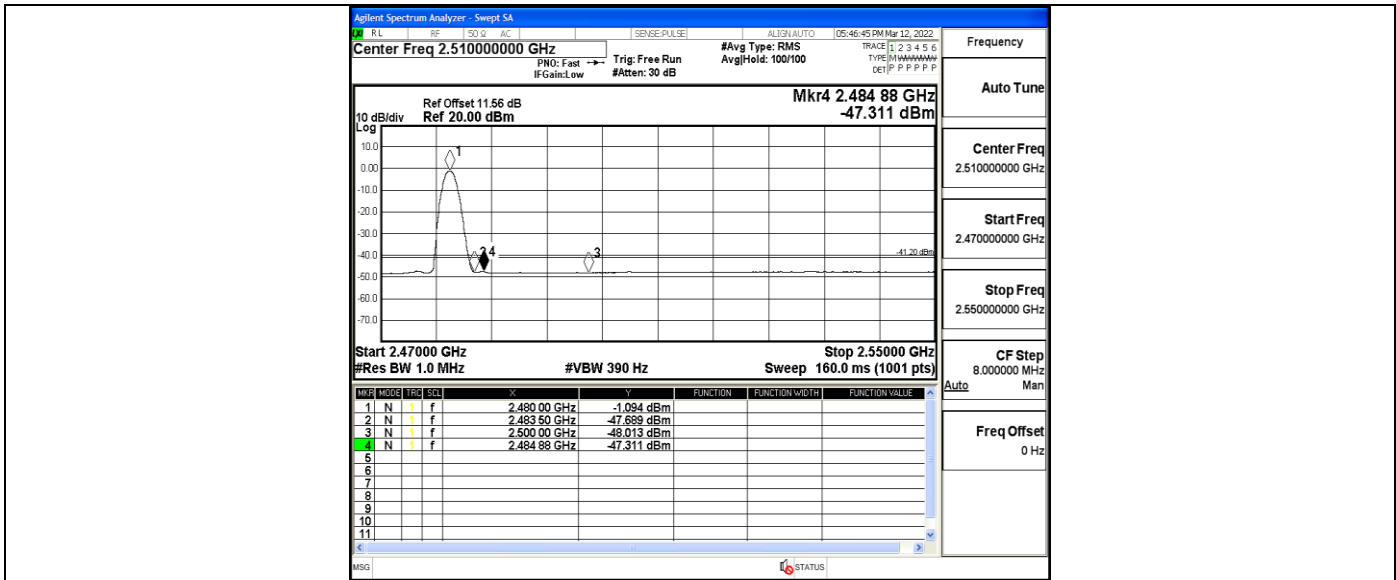
2DH5_Ant1_Low_2402_AV



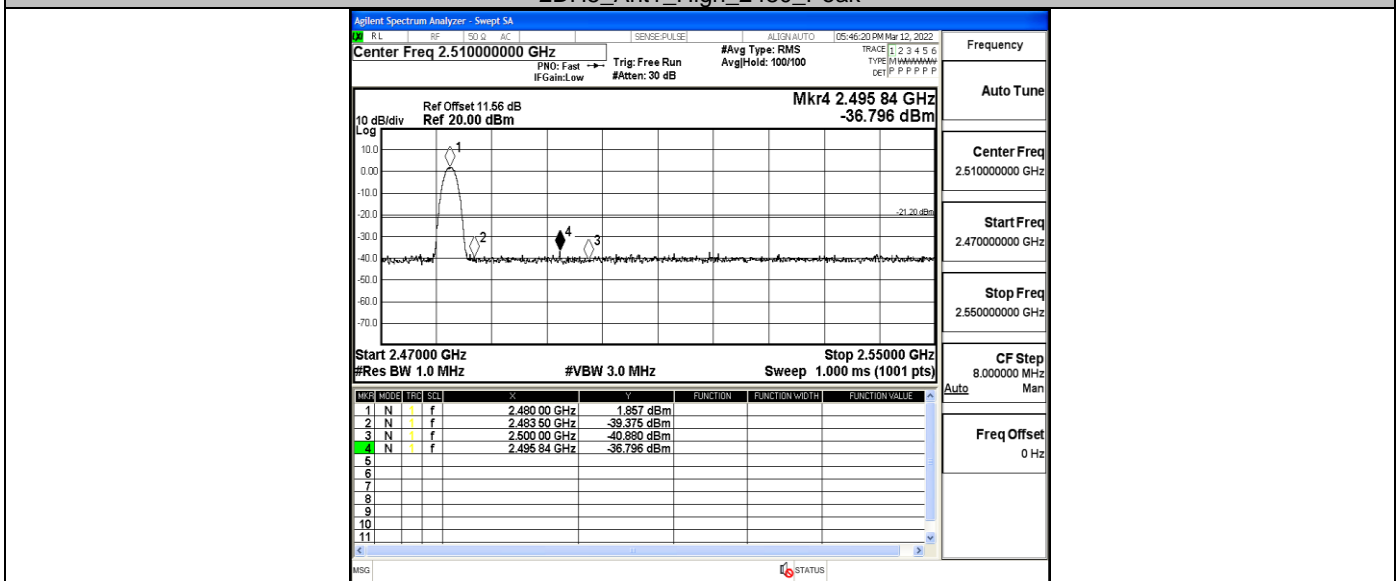
2DH5_Ant1_Low_2402_Peak



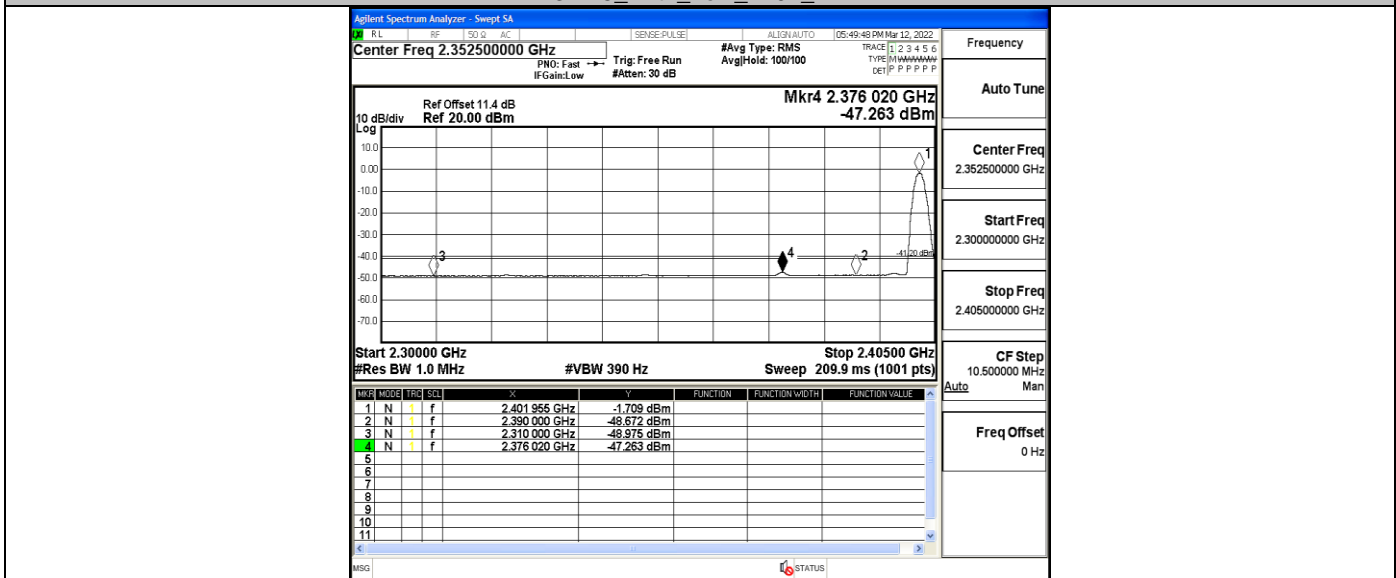
2DH5_Ant1_High_2480_AV



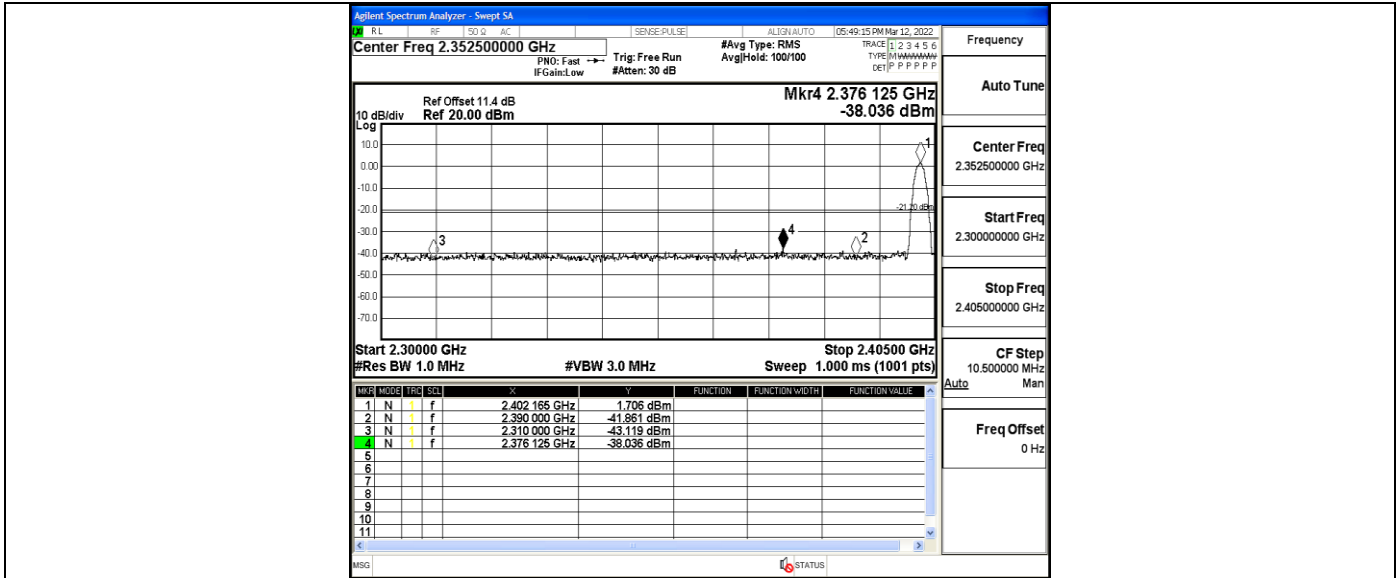
2DH5_Ant1_High_2480_Peak



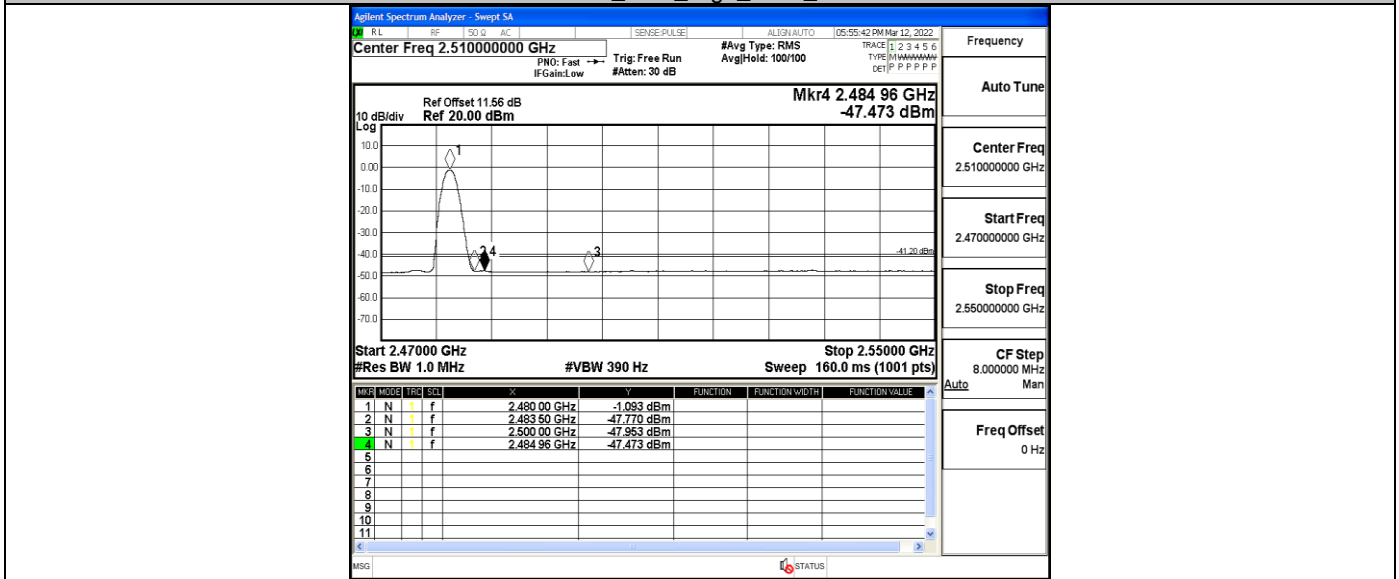
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

