

Appendix A

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

Product Name: Wireless Earphones

Trade Mark: Haylou

Test Model: Haylou MoriPods ANC

FCC ID: 2AMQ6-MORIPODSANC

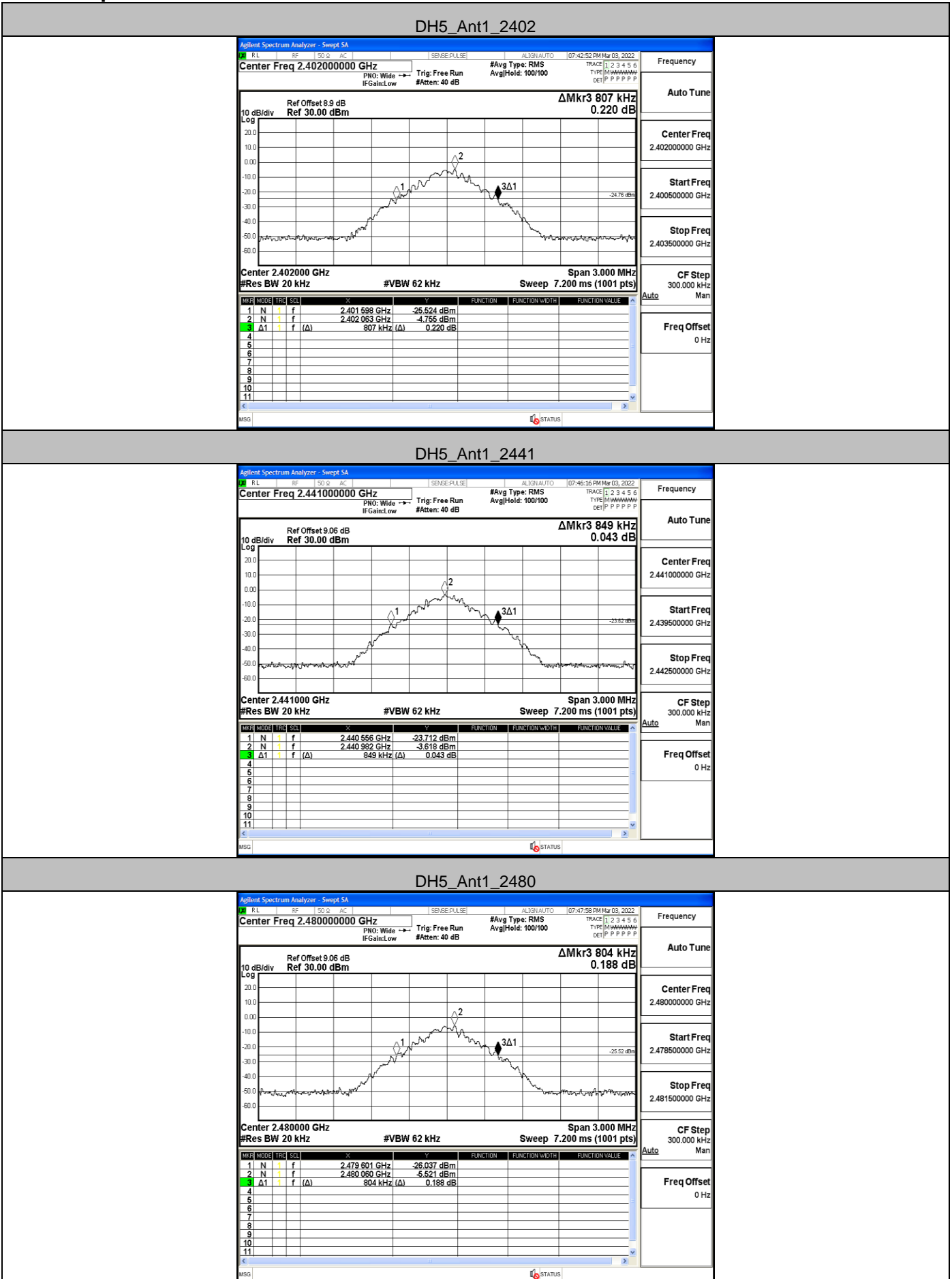
Environmental Conditions

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

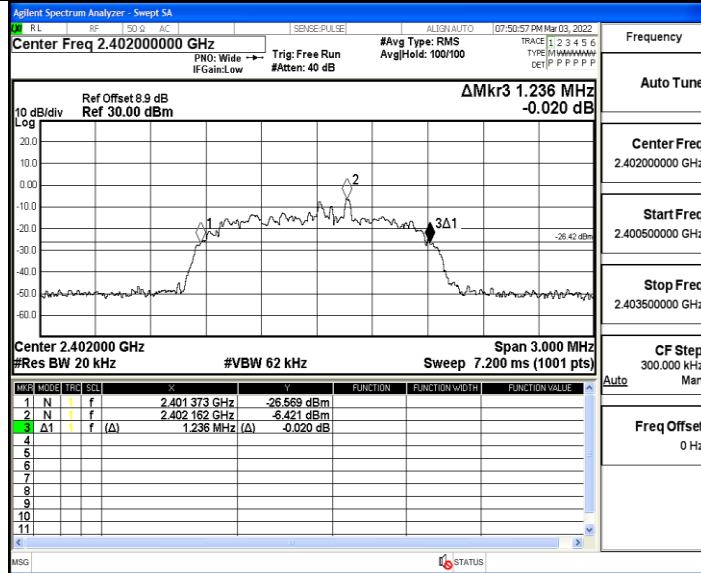
A.1 20 dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.807	2401.598	2402.405	---	---
		2441	0.849	2440.556	2441.405	---	---
		2480	0.804	2479.601	2480.405	---	---
2DH5	Ant1	2402	1.236	2401.373	2402.609	---	---
		2441	1.311	2440.346	2441.657	---	---
		2480	1.293	2479.367	2480.660	---	---
3DH5	Ant1	2402	1.299	2401.349	2402.648	---	---
		2441	1.281	2440.352	2441.633	---	---
		2480	1.257	2479.364	2480.621	---	---

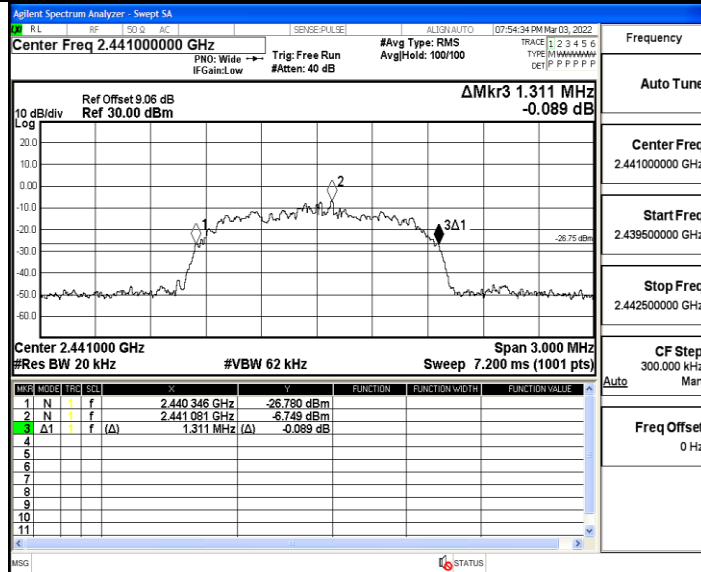
Test Graph



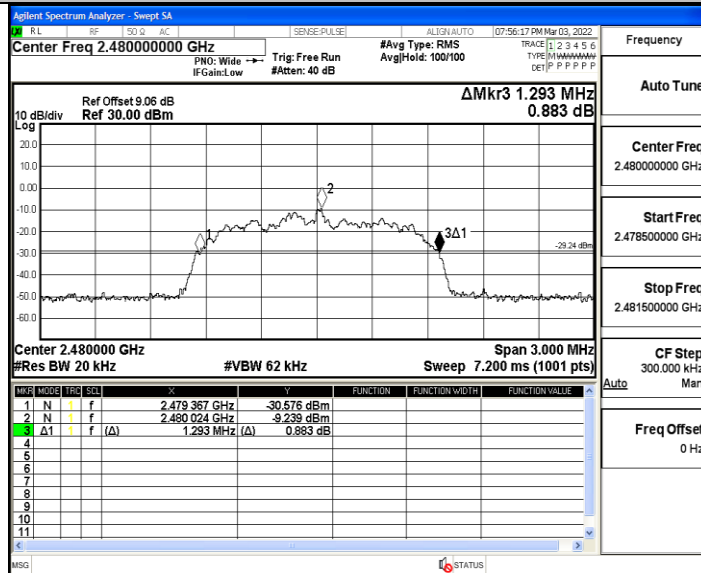
2DH5_Ant1_2402



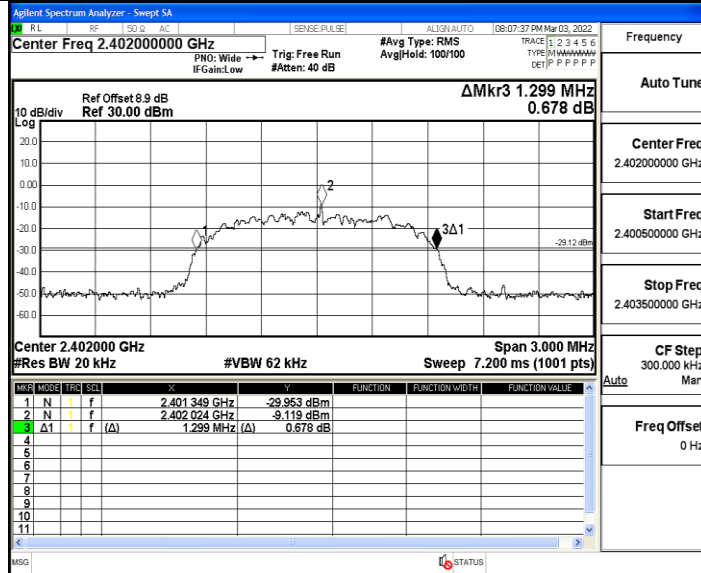
2DH5_Ant1_2441



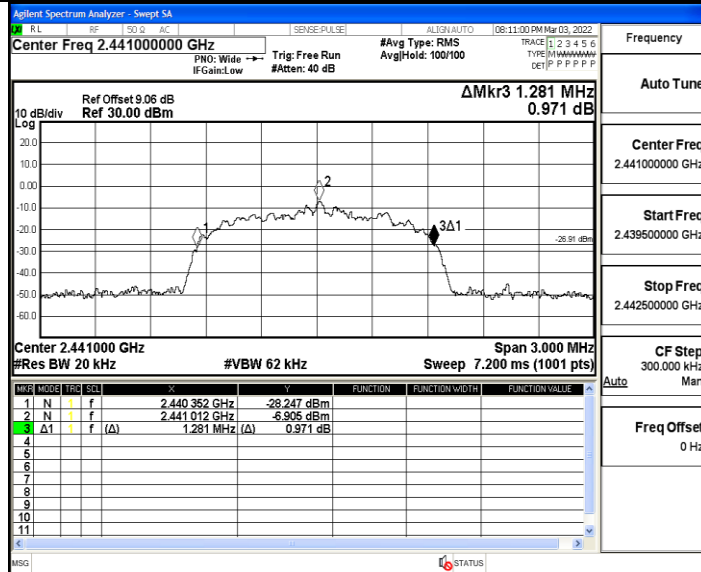
2DH5_Ant1_2480



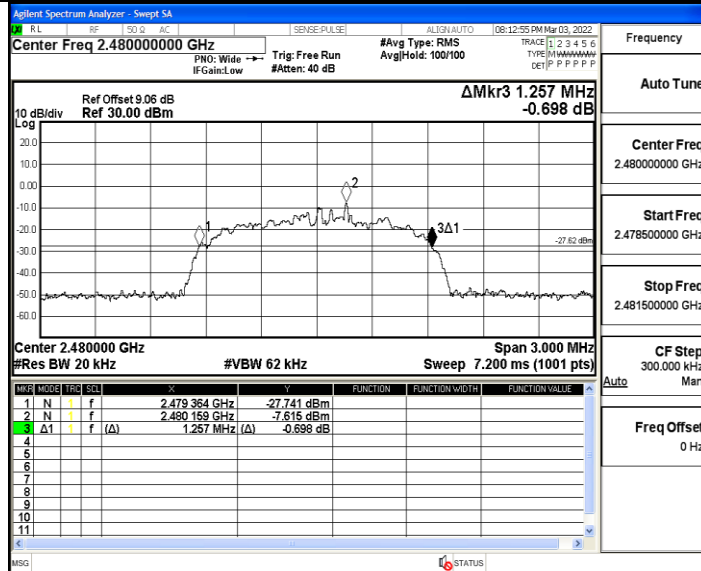
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

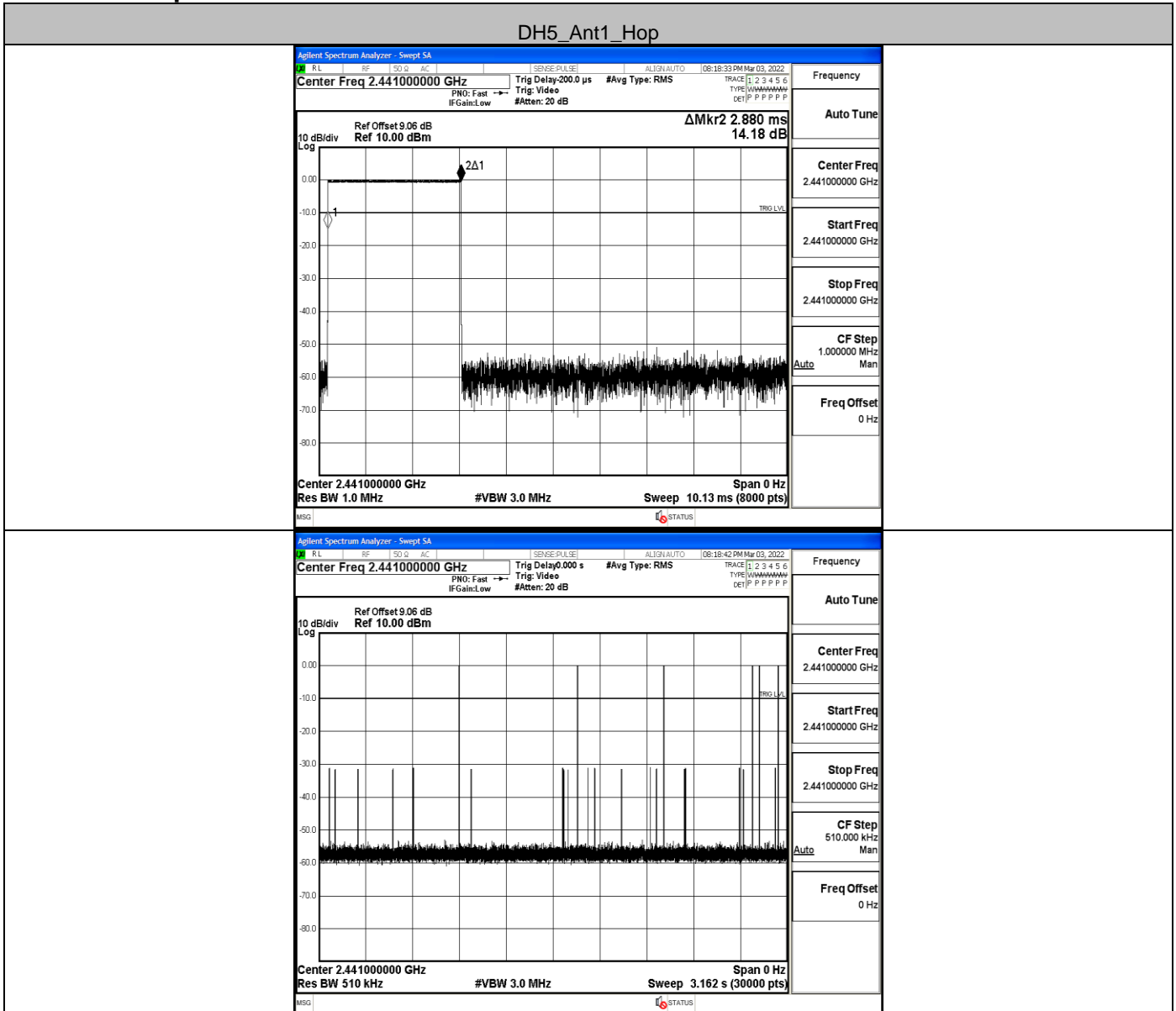


A.2 Dwell Time

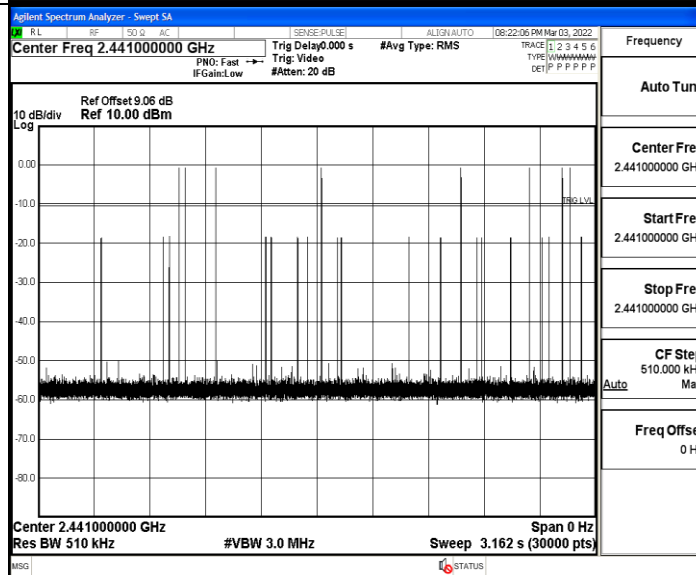
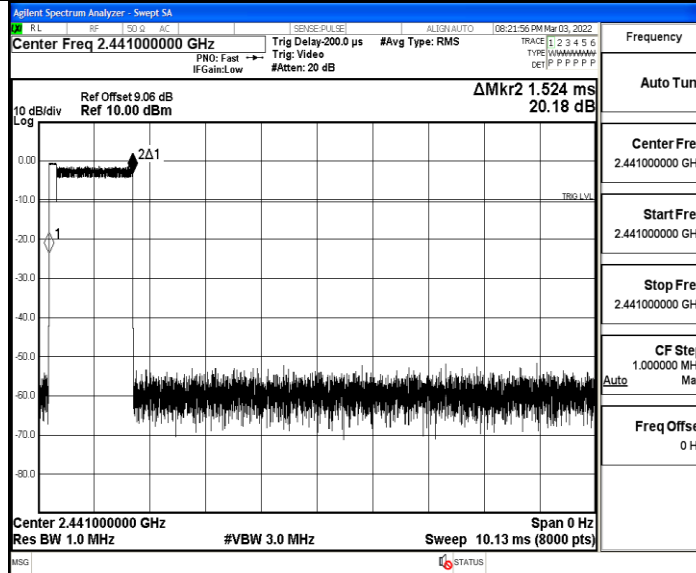
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	70	0.202	≤0.4	PASS
2DH5	Ant1	Hop	1.52	90	0.137	≤0.4	PASS
3DH5	Ant1	Hop	0.65	110	0.072	≤0.4	PASS

Test Graph

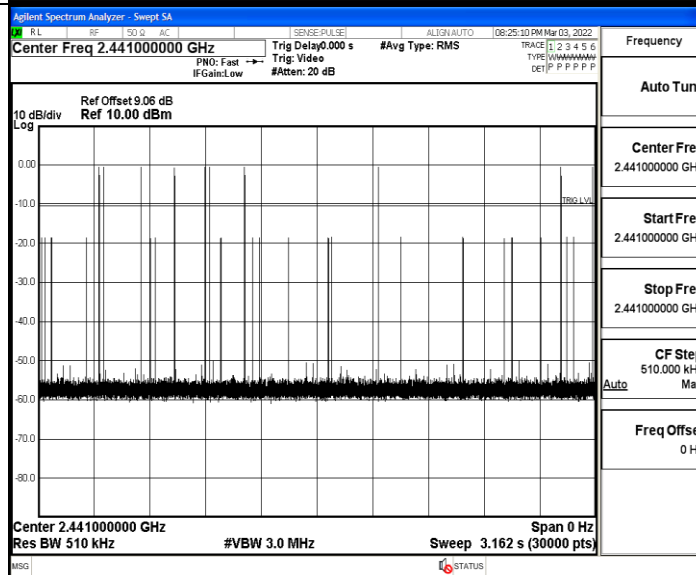
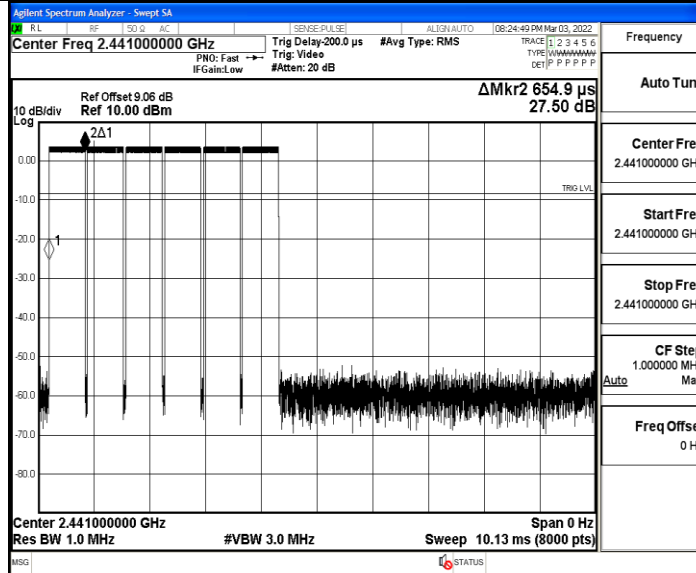
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

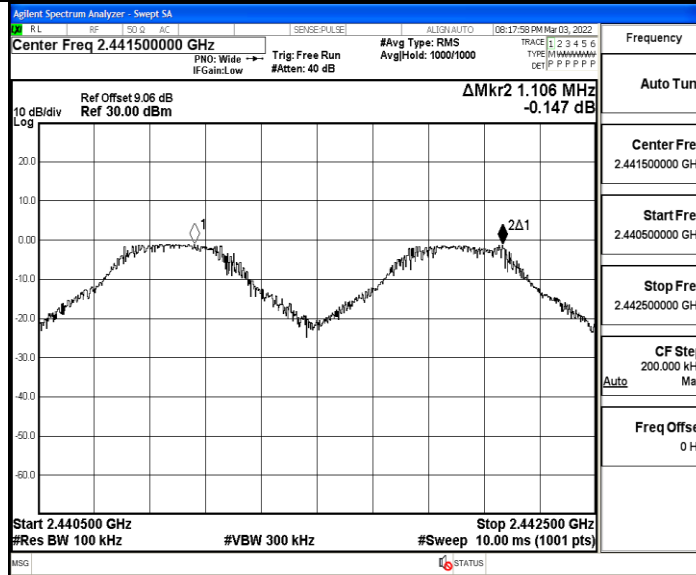


A.3 Carrier Frequency Separation

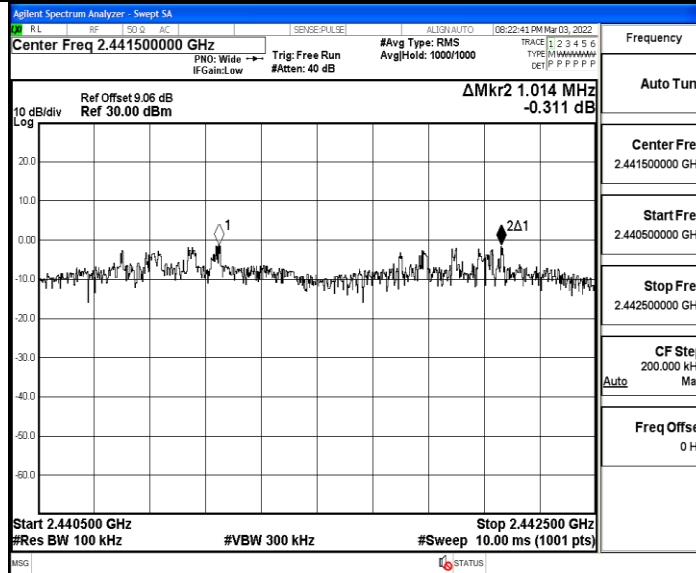
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.106	≥ 0.849	PASS
2DH5	Ant1	Hop	1.014	≥ 0.874	PASS
3DH5	Ant1	Hop	1.048	≥ 0.866	PASS

Test Graph

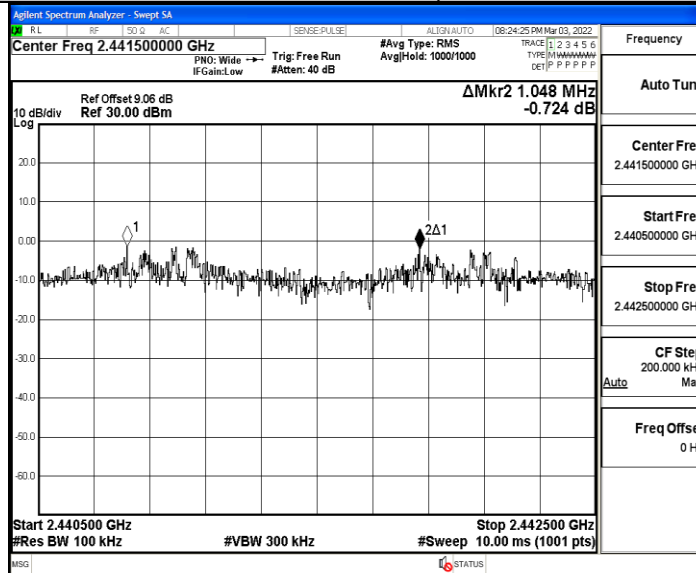
DH5_Ant1_Hop



2DH5_Ant1_Hop



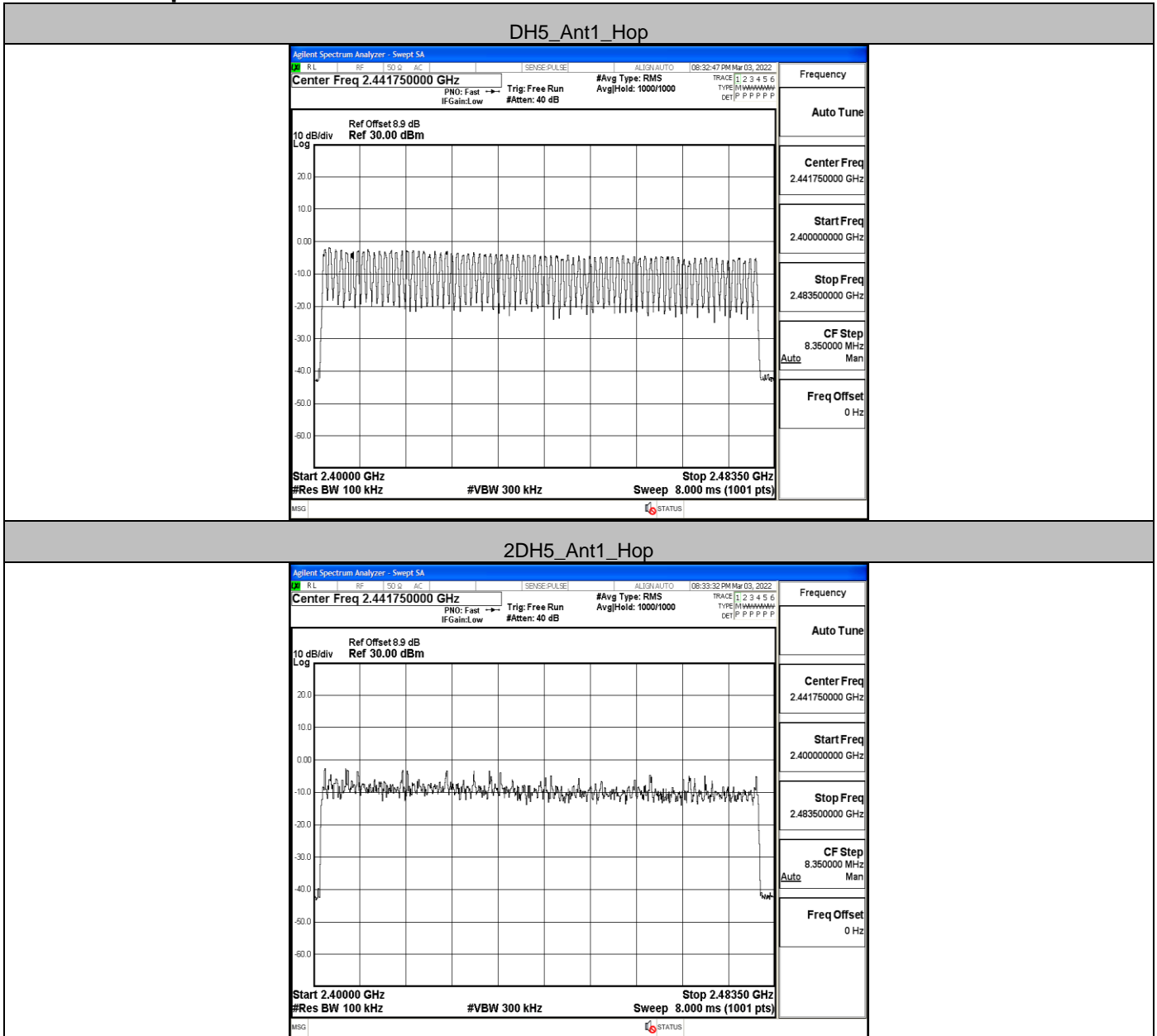
3DH5_Ant1_Hop



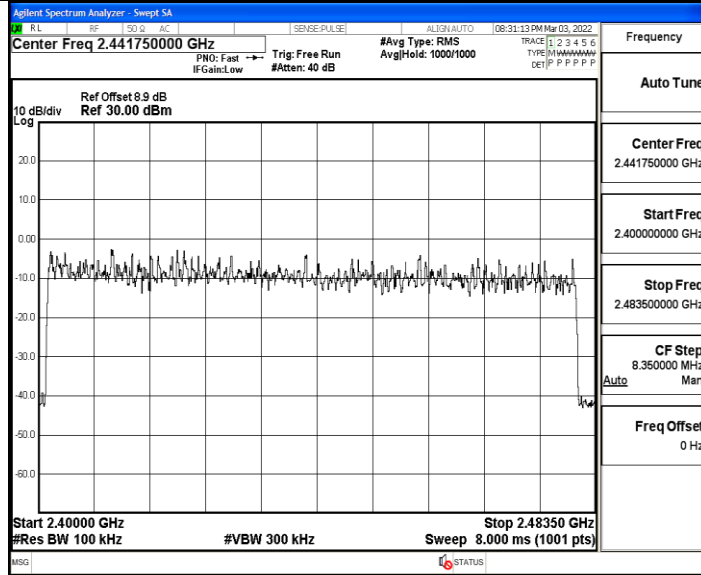
A.4 Hopping Channel Number

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



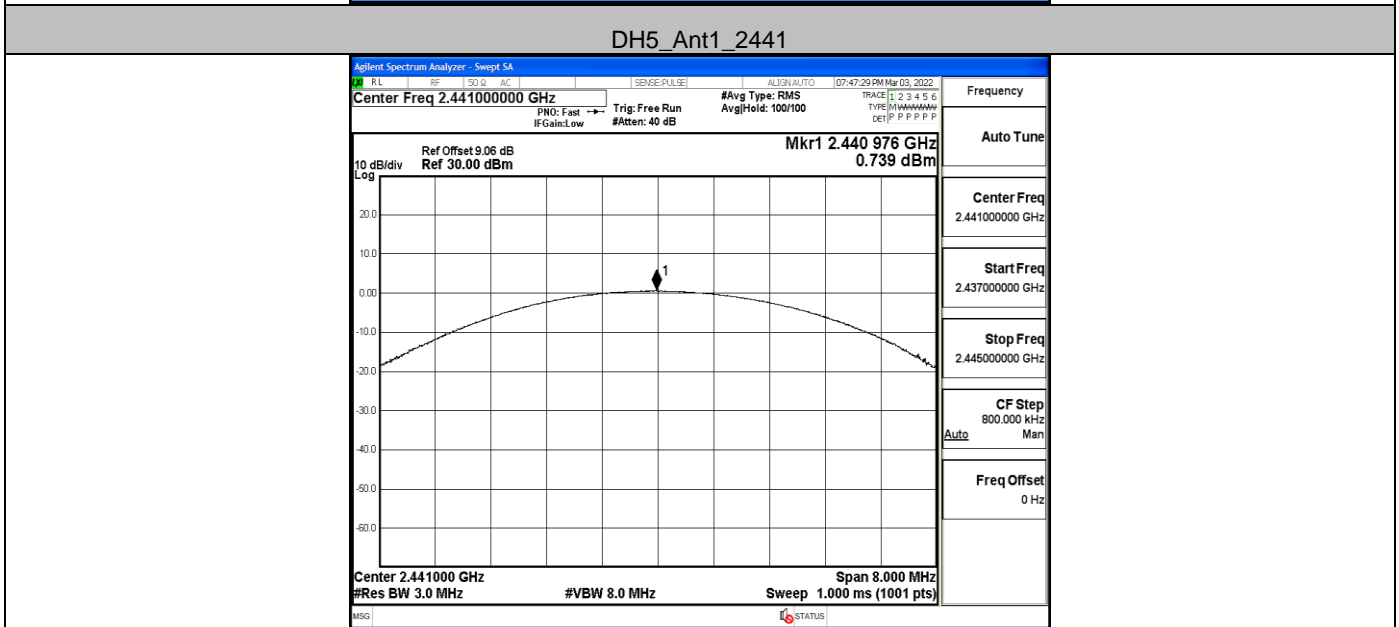
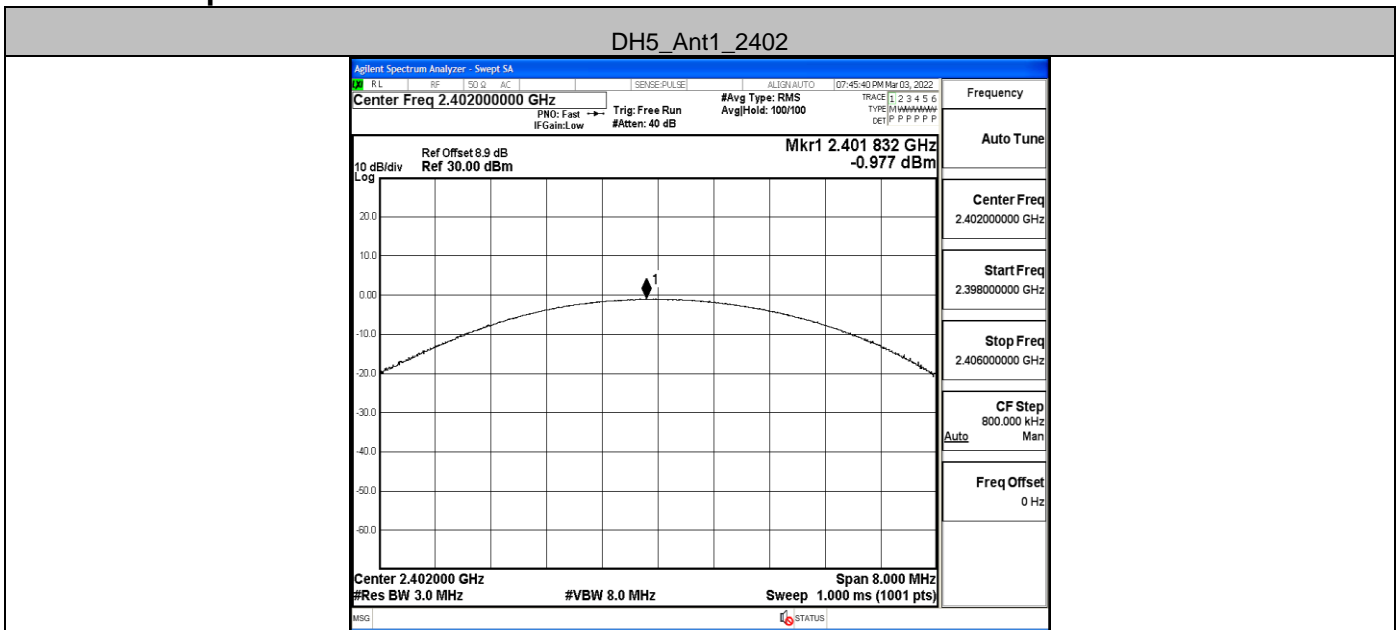
3DH5_Ant1_Hop



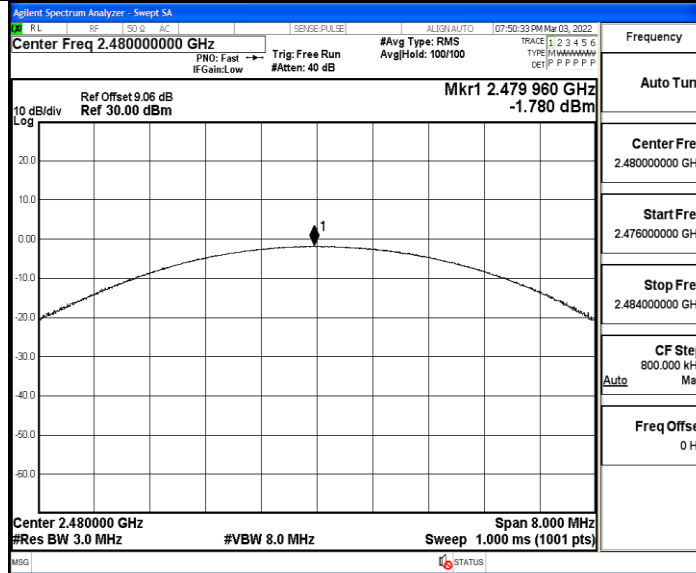
A.5 Conducted Peak Output Power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.98	≤30	PASS
		2441	0.74	≤30	PASS
		2480	-1.78	≤30	PASS
2DH5	Ant1	2402	-1.83	≤20.97	PASS
		2441	0.05	≤20.97	PASS
		2480	-2.6	≤20.97	PASS
3DH5	Ant1	2402	-2.09	≤20.97	PASS
		2441	-0.55	≤20.97	PASS
		2480	-3.18	≤20.97	PASS

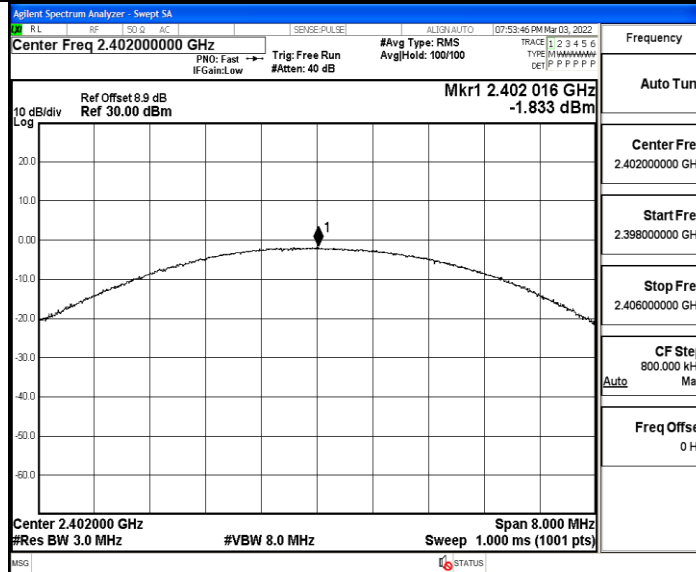
Test Graph



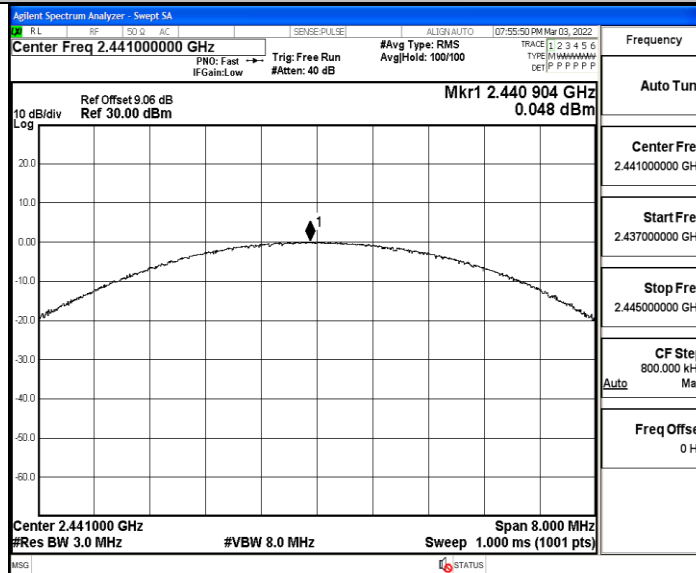
DH5_Ant1_2480



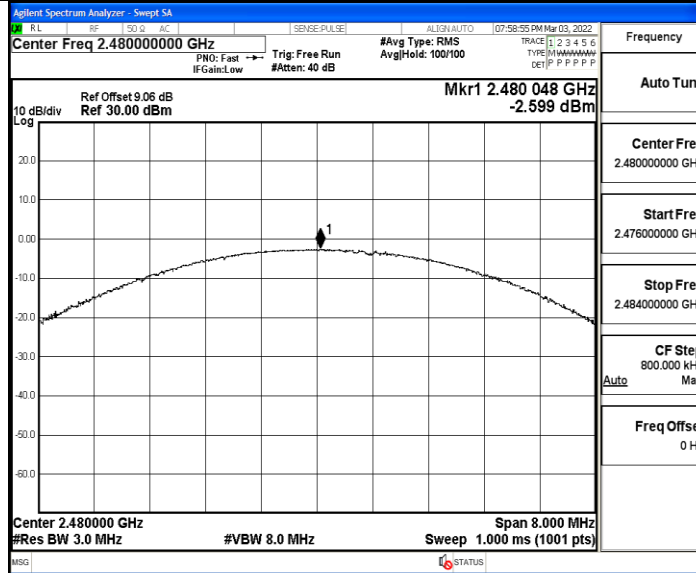
2DH5_Ant1_2402



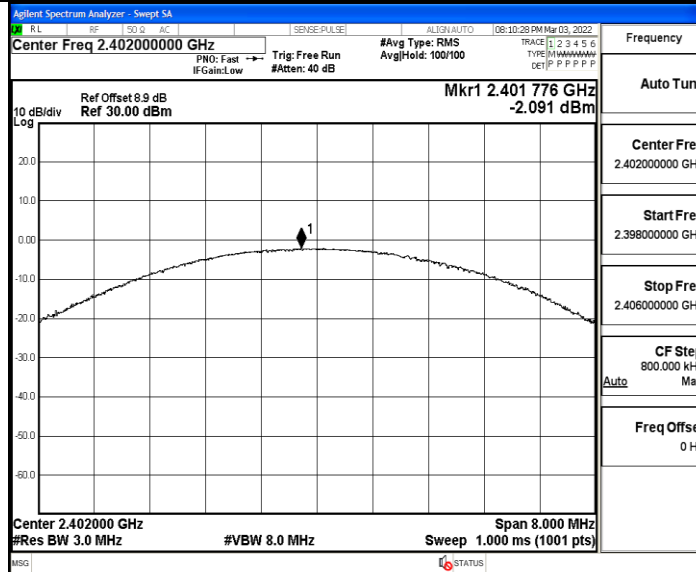
2DH5_Ant1_2441



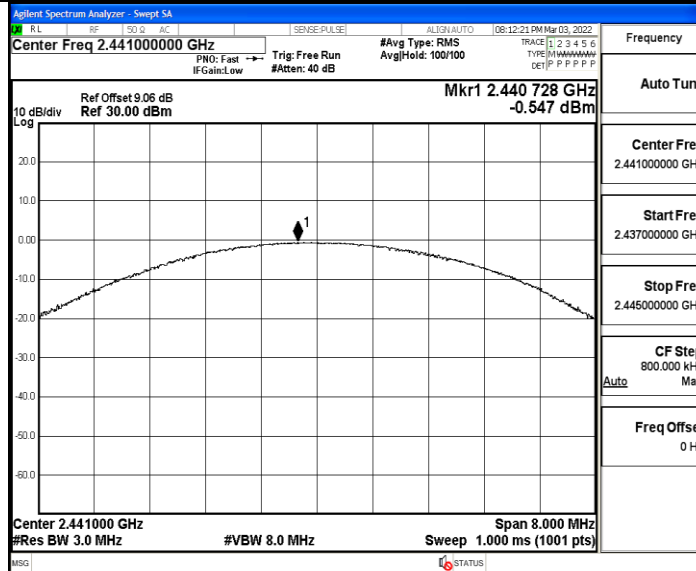
2DH5_Ant1_2480



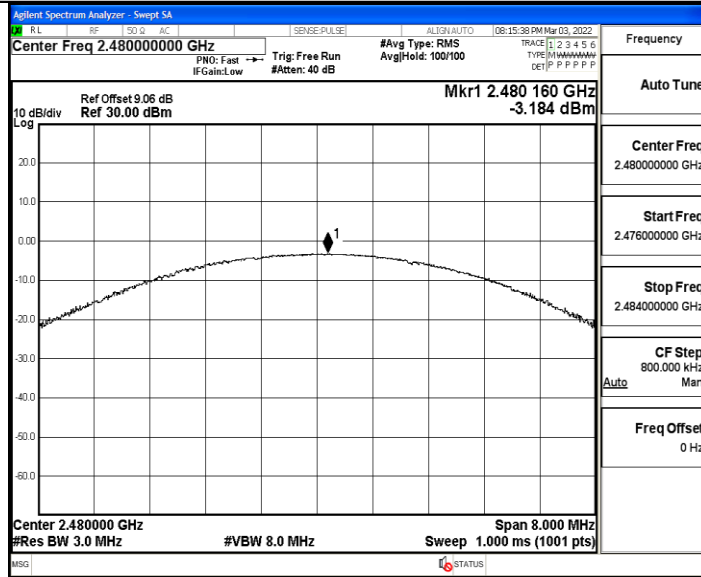
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

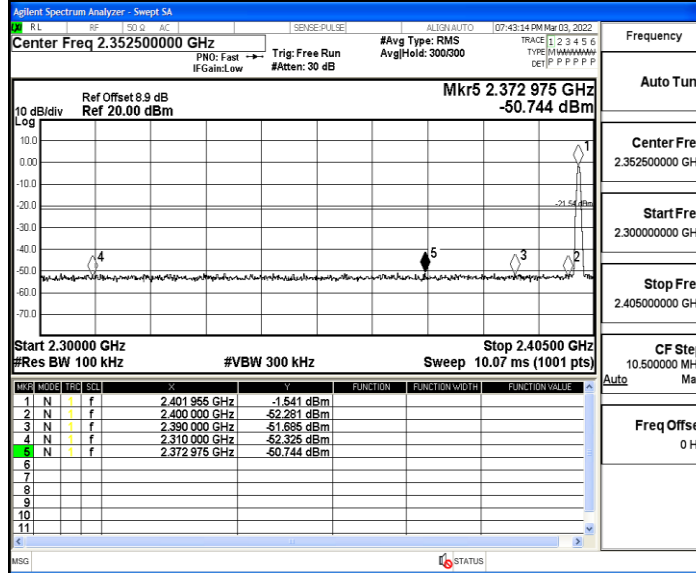


A.6 Band-edge for RF Conducted Emissions

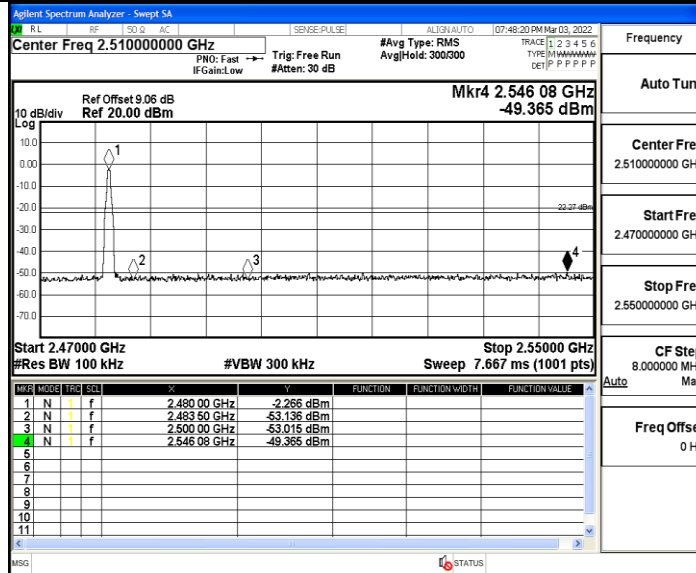
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.54	-50.74	≤-21.54	PASS
		High	2480	-2.27	-49.37	≤-22.27	PASS
		Low	Hop_2402	-3.23	-50.18	≤-23.23	PASS
		High	Hop_2480	-3.72	-49.63	≤-23.72	PASS
2DH5	Ant1	Low	2402	-2.42	-50.58	≤-22.42	PASS
		High	2480	-3.01	-49.17	≤-23.01	PASS
		Low	Hop_2402	-4.42	-50.73	≤-24.42	PASS
		High	Hop_2480	-9.65	-49.22	≤-29.65	PASS
3DH5	Ant1	Low	2402	-2.87	-50.74	≤-22.87	PASS
		High	2480	-3.52	-49.54	≤-23.52	PASS
		Low	Hop_2402	-6.34	-50.86	≤-26.34	PASS
		High	Hop_2480	-6.16	-48.92	≤-26.16	PASS

Test Graph

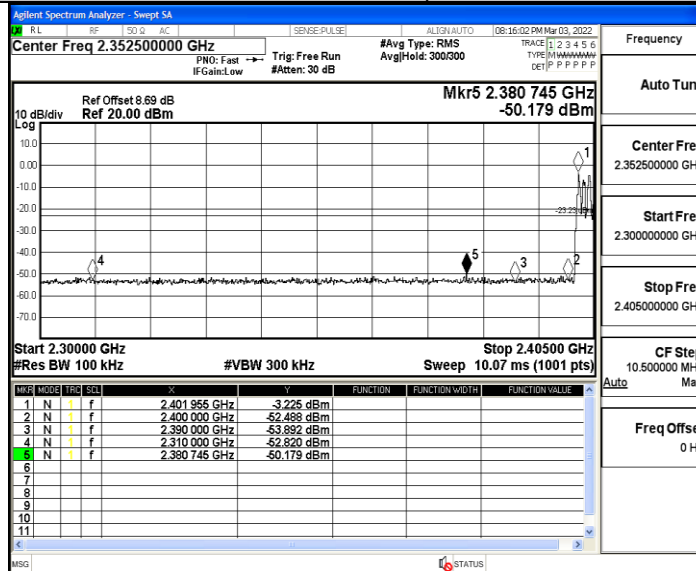
DH5_Ant1_Low_2402



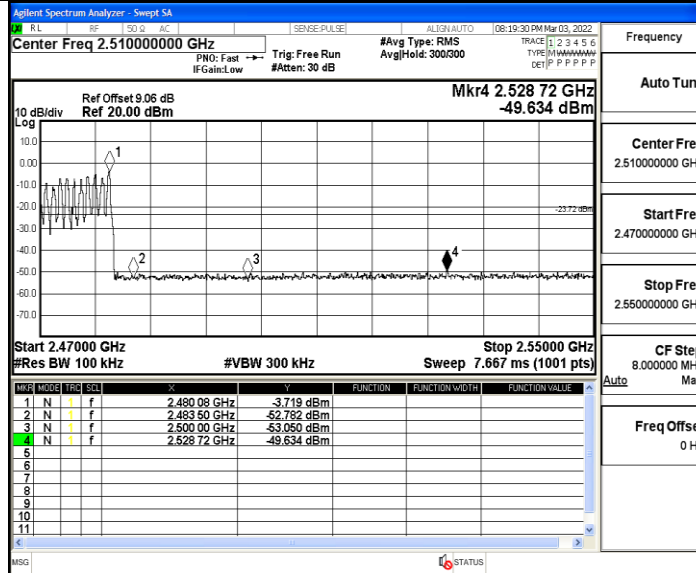
DH5_Ant1_High_2480



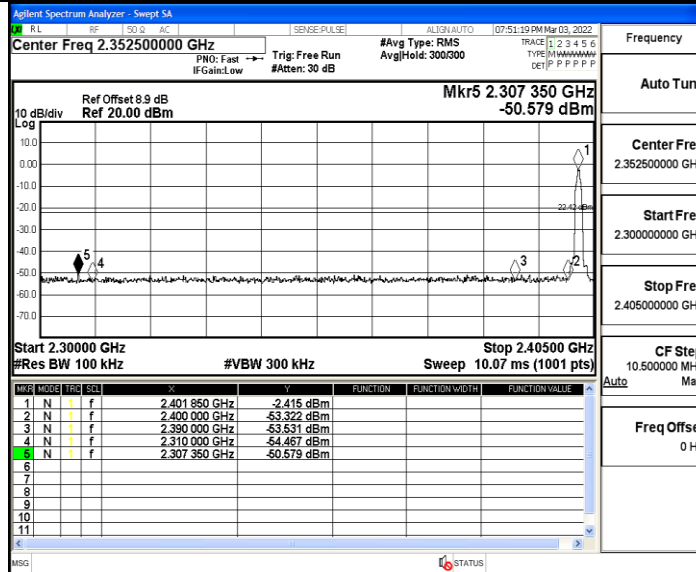
DH5_Ant1_Low_Hop_2402



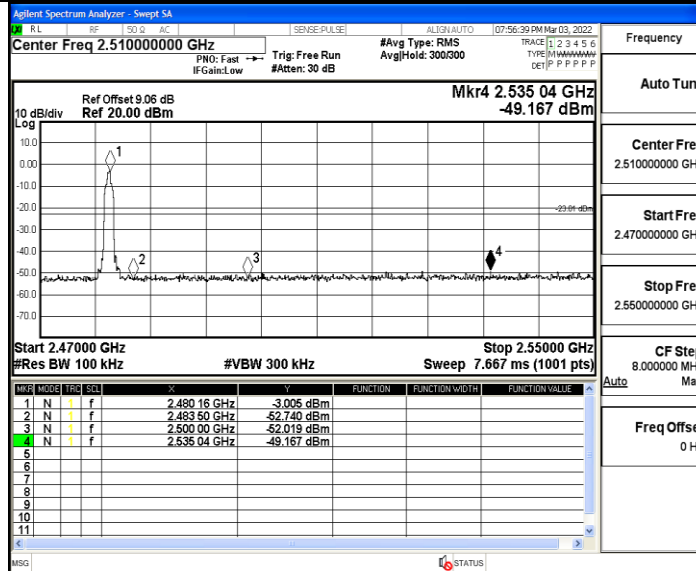
DH5_Ant1_High_Hop_2480



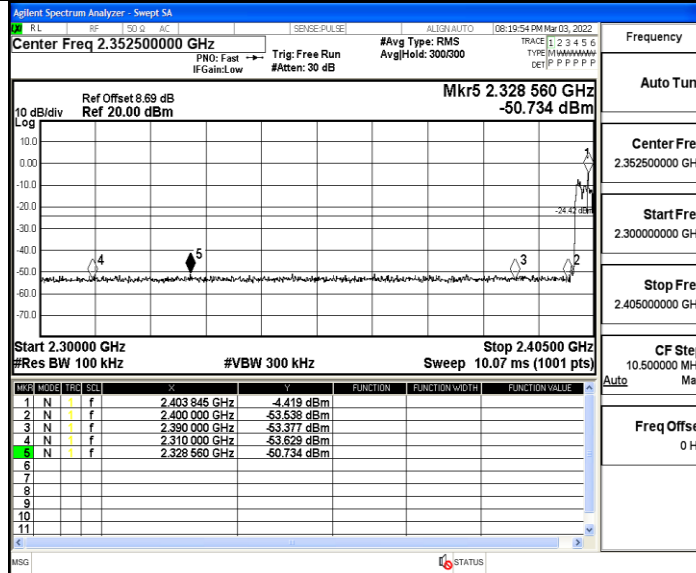
2DH5_Ant1_Low_2402



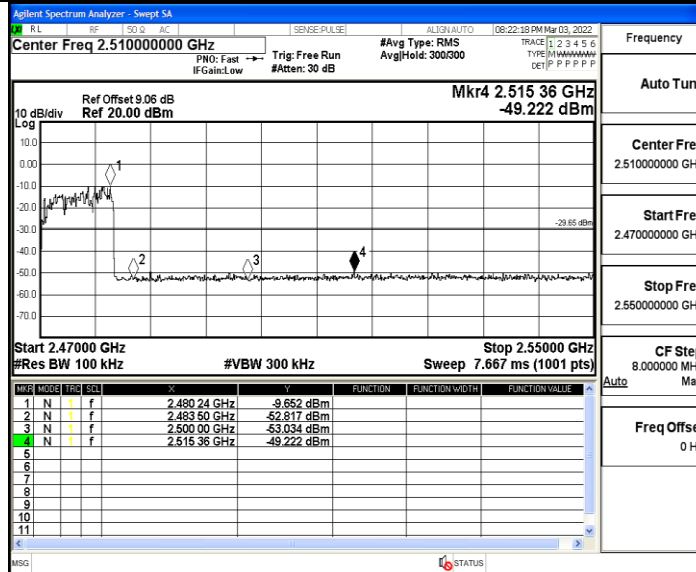
2DH5_Ant1_High_2480



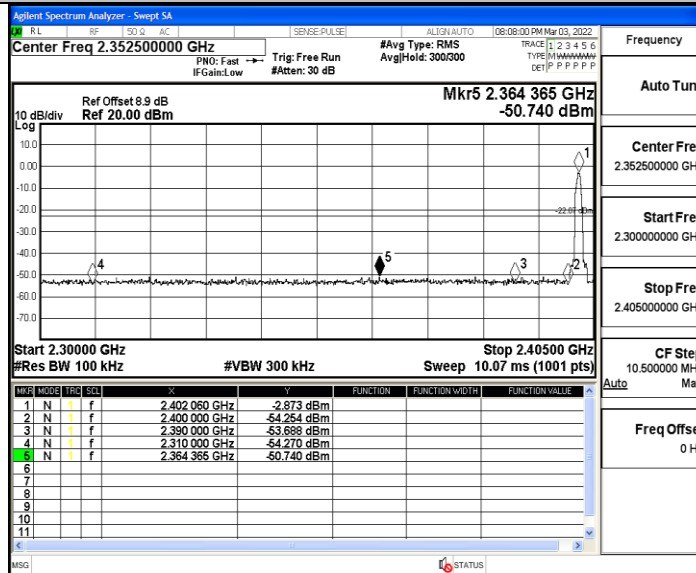
2DH5_Ant1_Low_Hop_2402



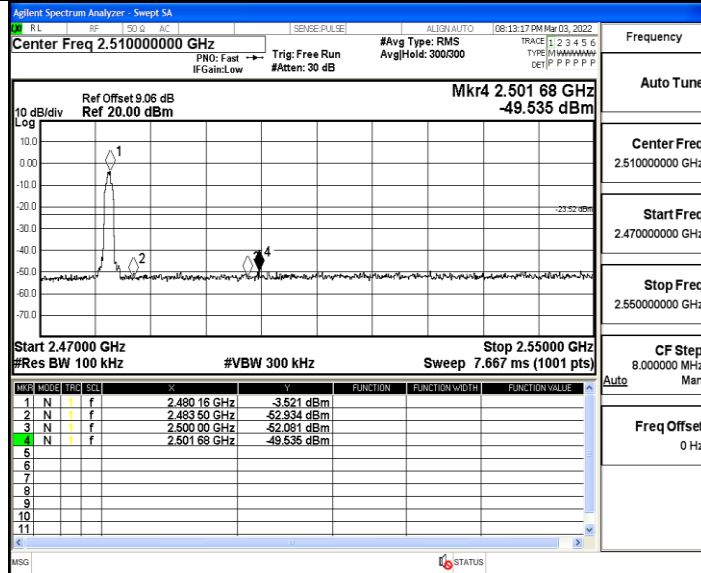
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

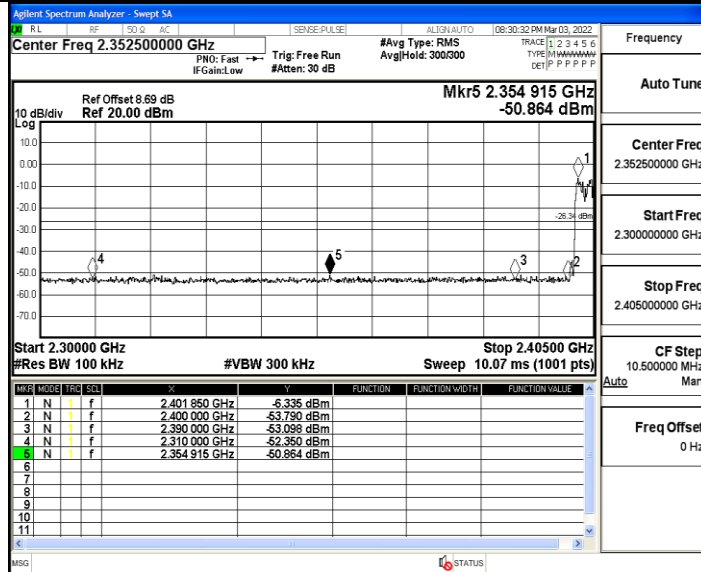


3DH5_Ant1_High_2480



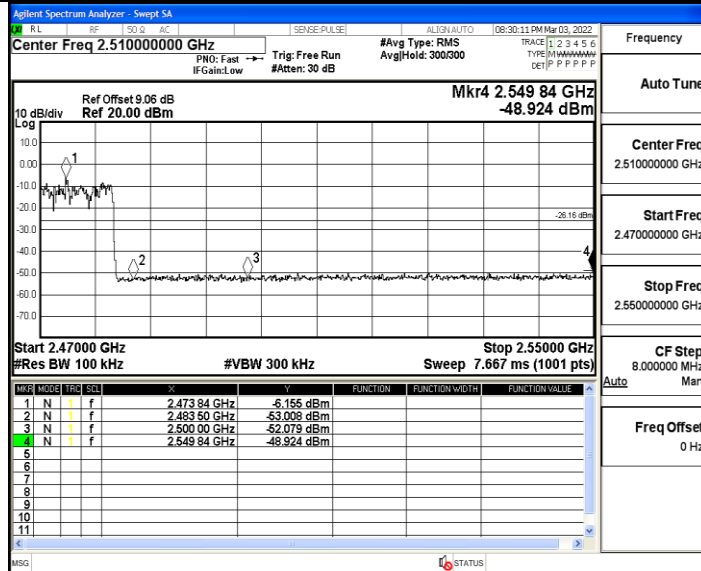
Frequency	Auto Tune
Center Freq	2.51000000 GHz
Start Freq	2.47000000 GHz
Stop Freq	2.55000000 GHz
CF Step	8.000000 MHz
Freq Offset	0 Hz

3DH5_Ant1_Low_Hop_2402



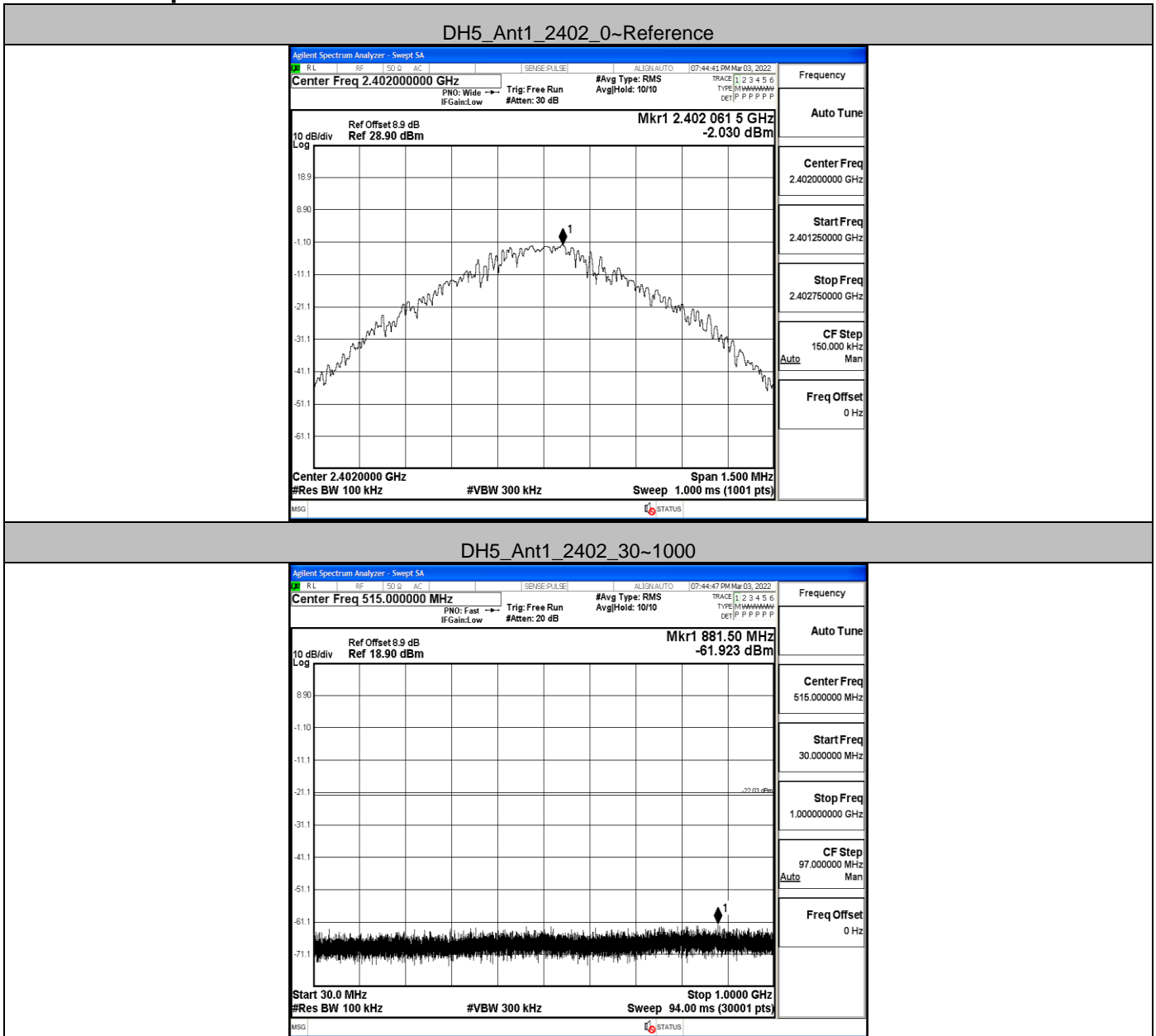
Frequency	Auto Tune
Center Freq	2.35250000 GHz
Start Freq	2.30000000 GHz
Stop Freq	2.40500000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

3DH5_Ant1_High_Hop_2480

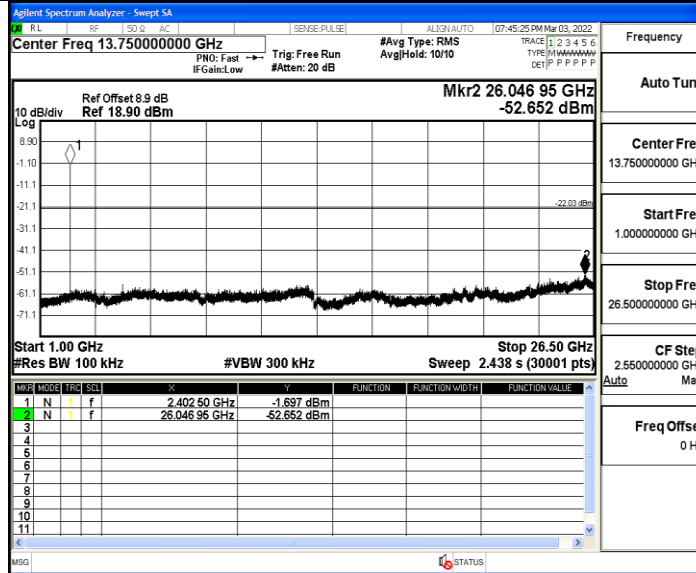


Frequency	Auto Tune
Center Freq	2.51000000 GHz
Start Freq	2.47000000 GHz
Stop Freq	2.55000000 GHz
CF Step	8.000000 MHz
Freq Offset	0 Hz

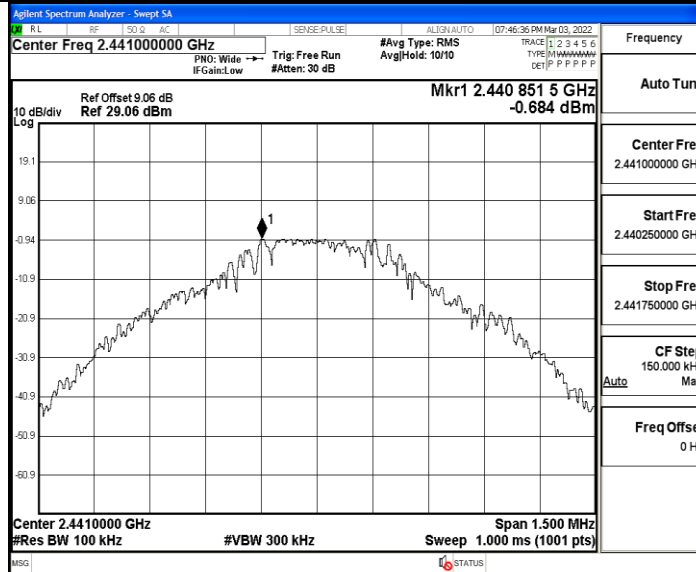
A.7 RF Conducted Spurious Emissions Test Graph



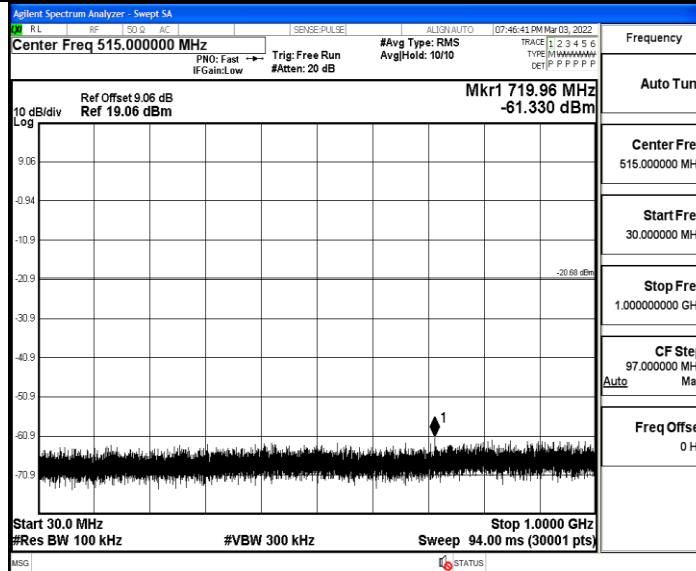
DH5_Ant1_2402_1000~26500



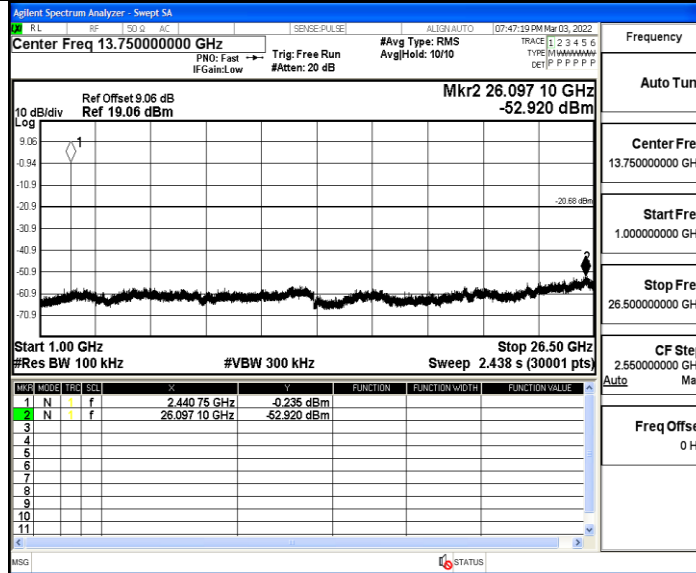
DH5_Ant1_2441_0~Reference



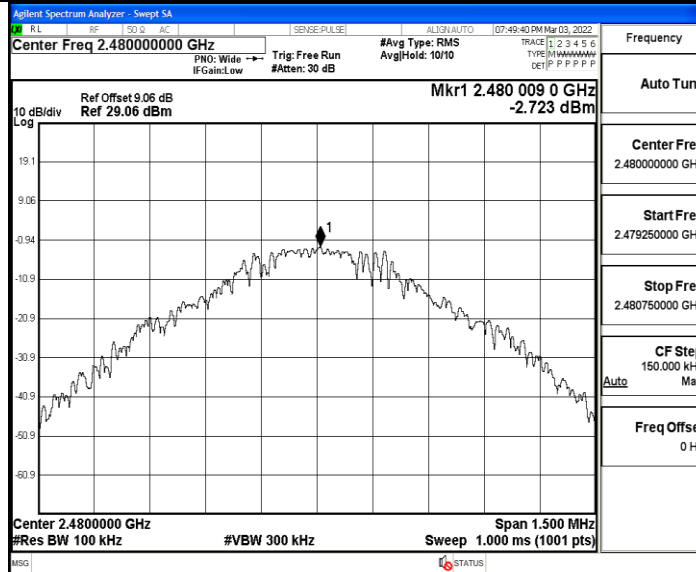
DH5_Ant1_2441_30~1000



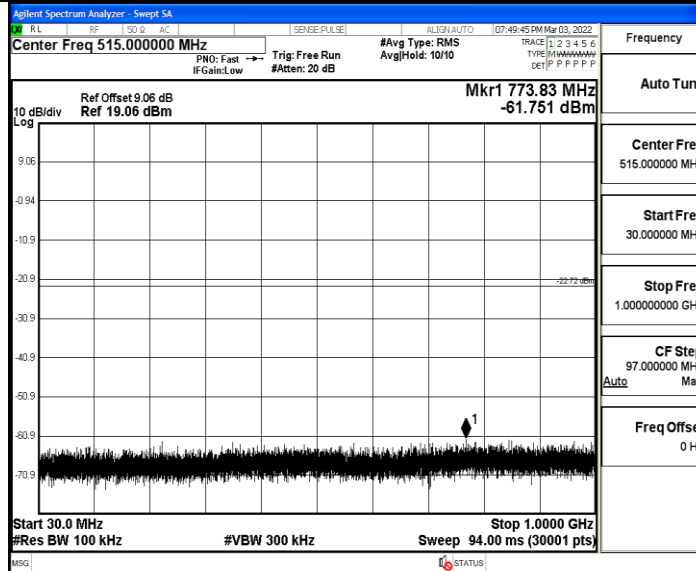
DH5_Ant1_2441_1000~26500



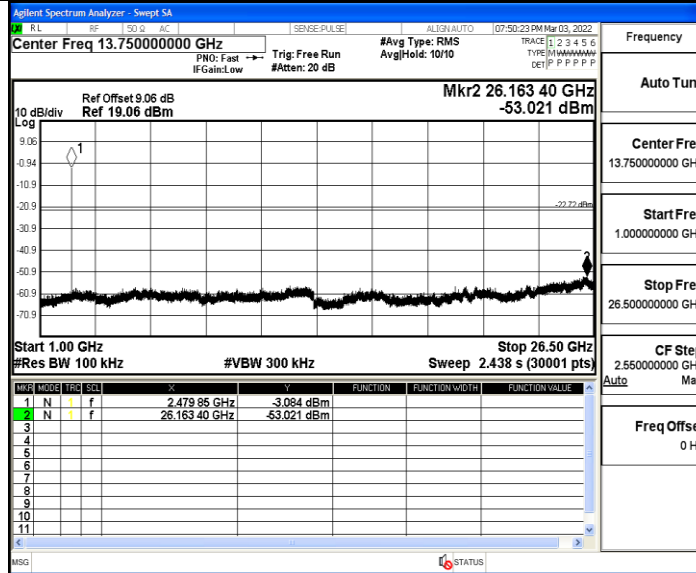
DH5_Ant1_2480_0~Reference



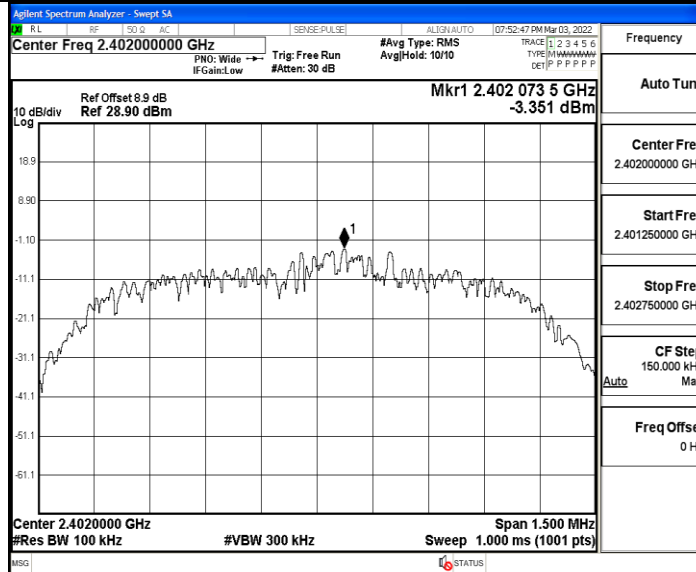
DH5_Ant1_2480_30~1000



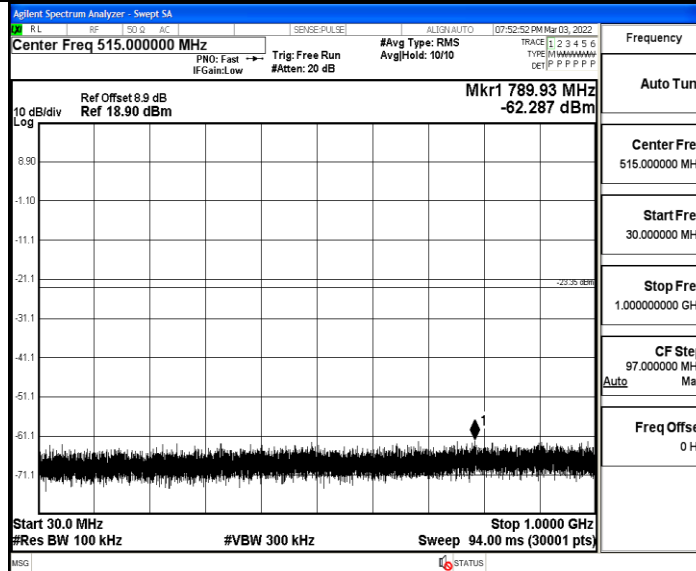
DH5_Ant1_2480_1000~26500



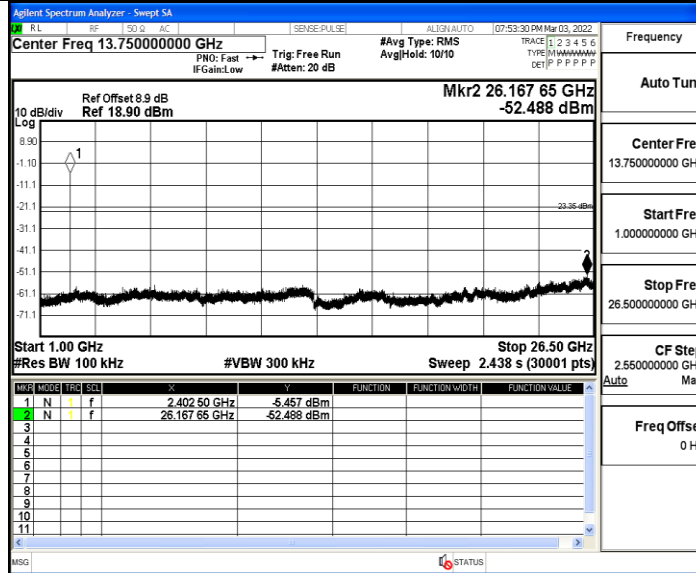
2DH5_Ant1_2402_0~Reference



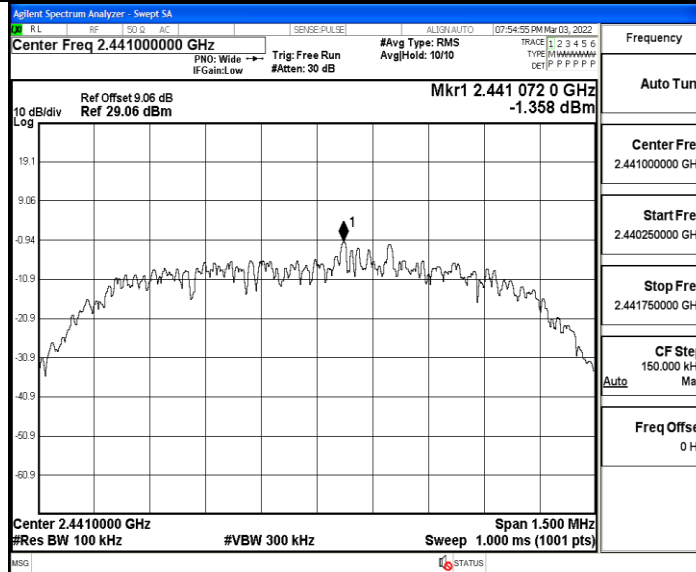
2DH5_Ant1_2402_30~1000



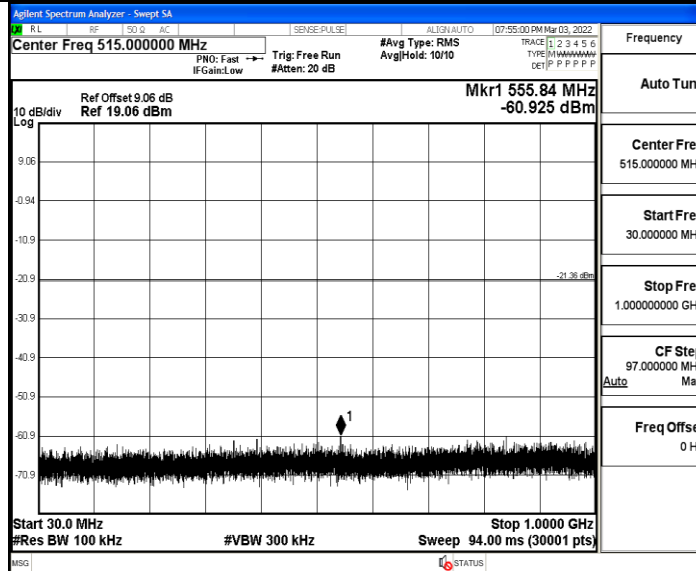
2DH5_Ant1_2402_1000~26500



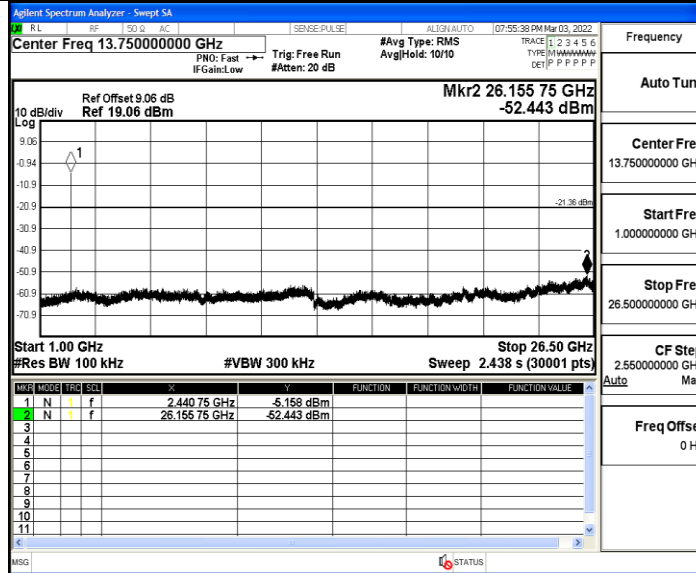
2DH5_Ant1_2441_0~Reference



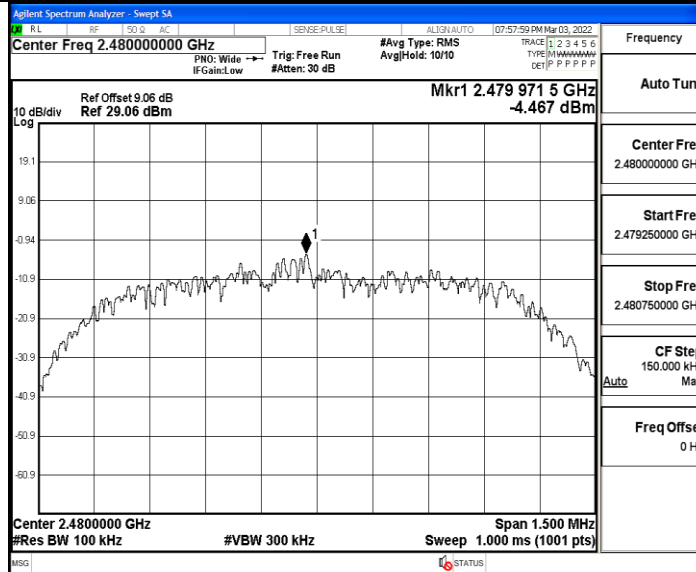
2DH5_Ant1_2441_30~1000



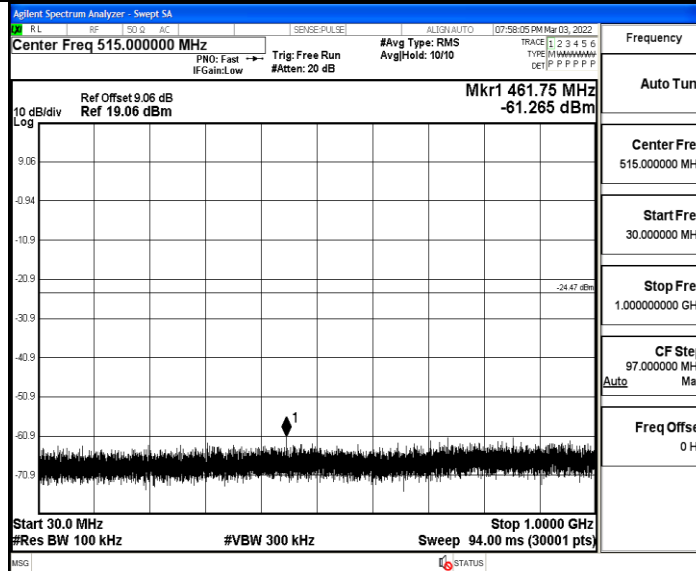
2DH5_Ant1_2441_1000~26500



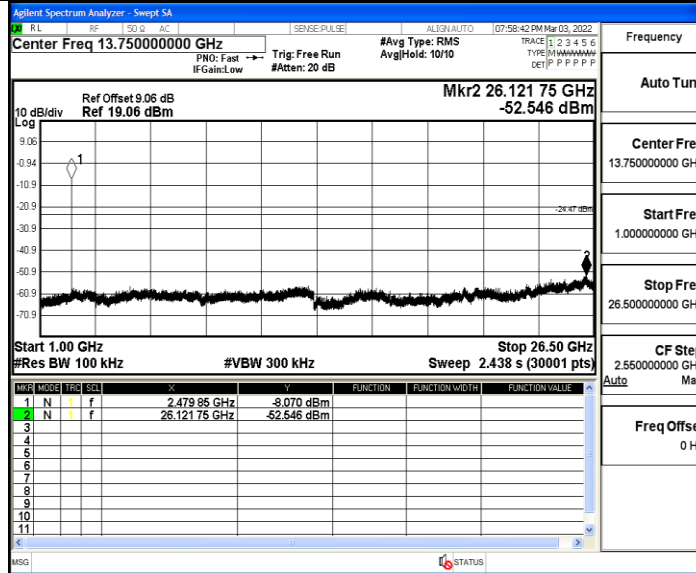
2DH5_Ant1_2480_0~Reference



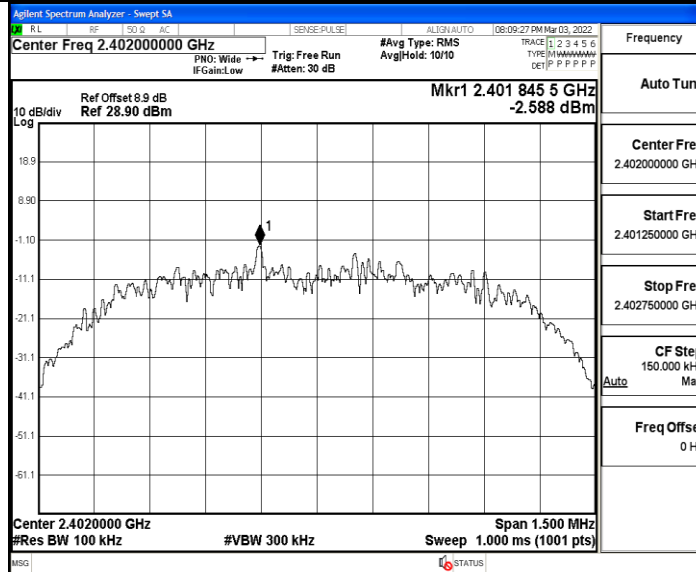
2DH5_Ant1_2480_30~1000



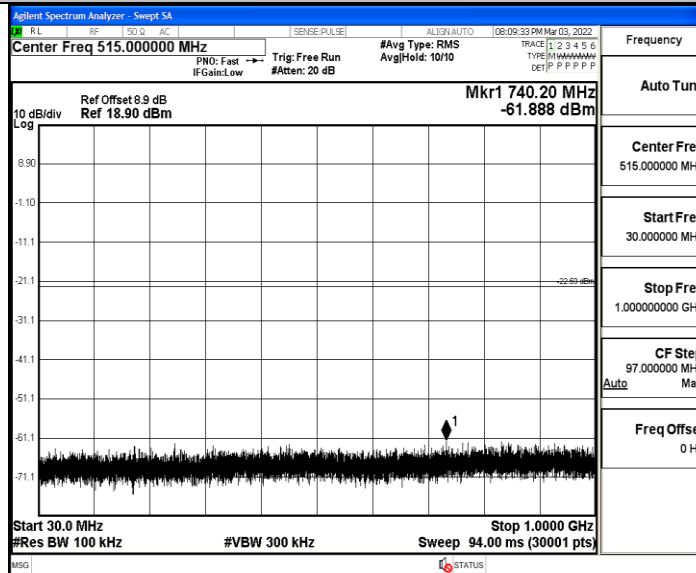
2DH5_Ant1_2480_1000~26500



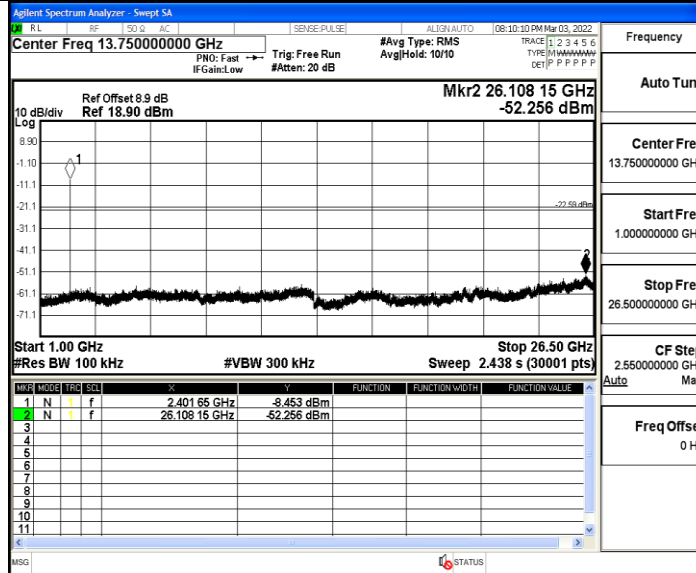
3DH5_Ant1_2402_0~Reference



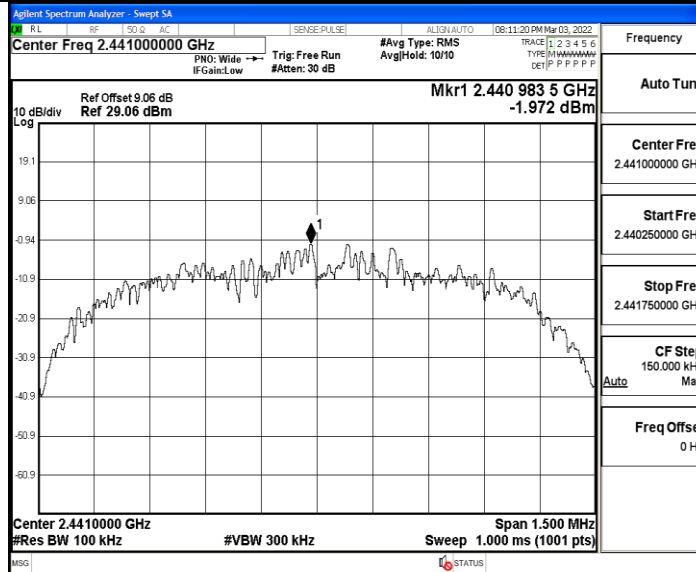
3DH5_Ant1_2402_30~1000



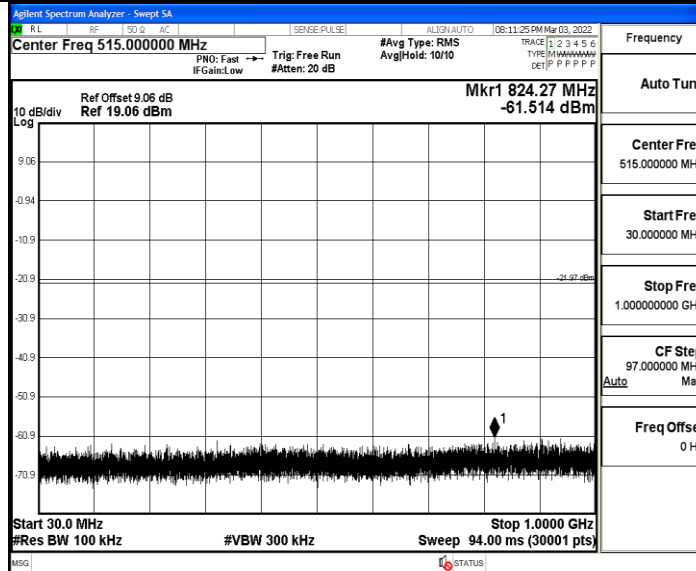
3DH5_Ant1_2402_1000~26500



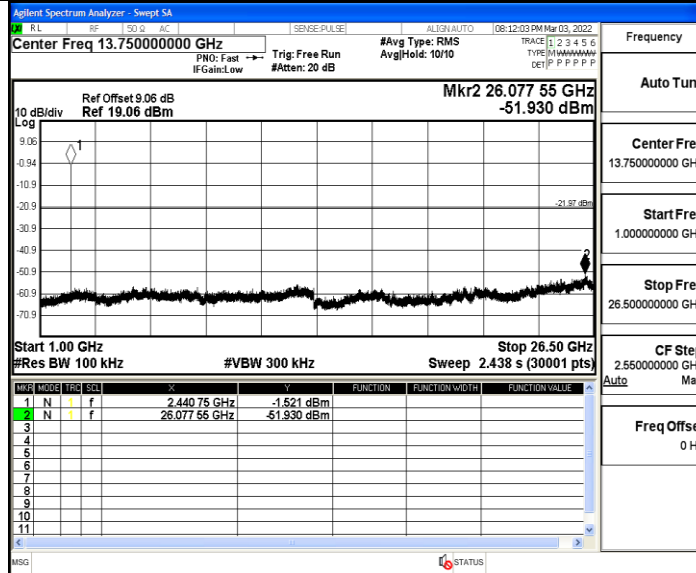
3DH5_Ant1_2441_0~Reference



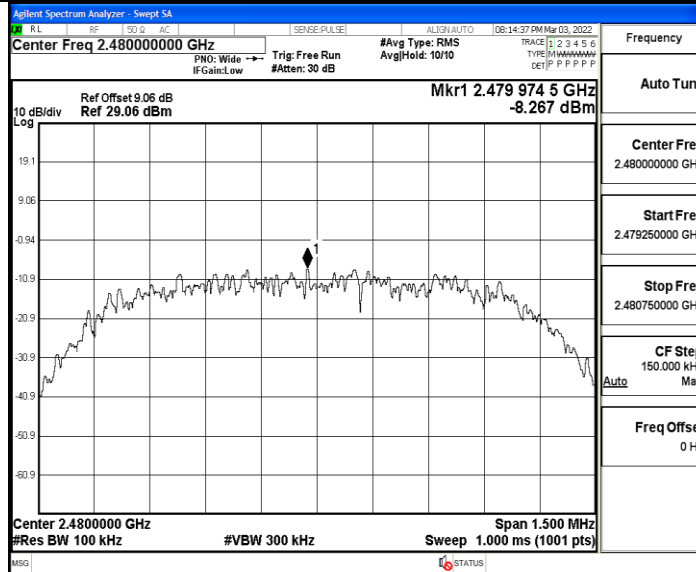
3DH5_Ant1_2441_30~1000



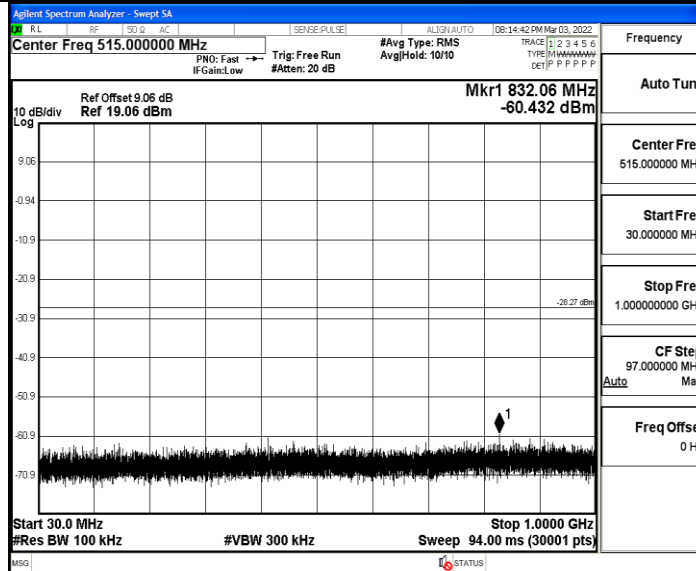
3DH5_Ant1_2441_1000~26500



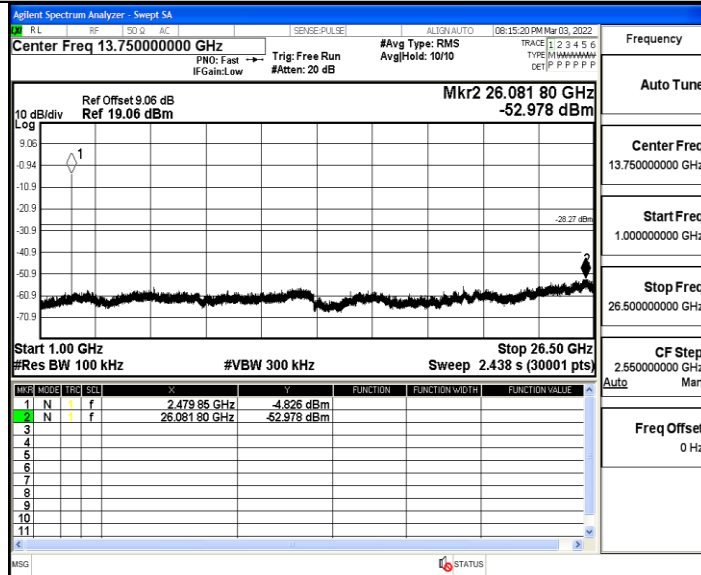
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000-26500



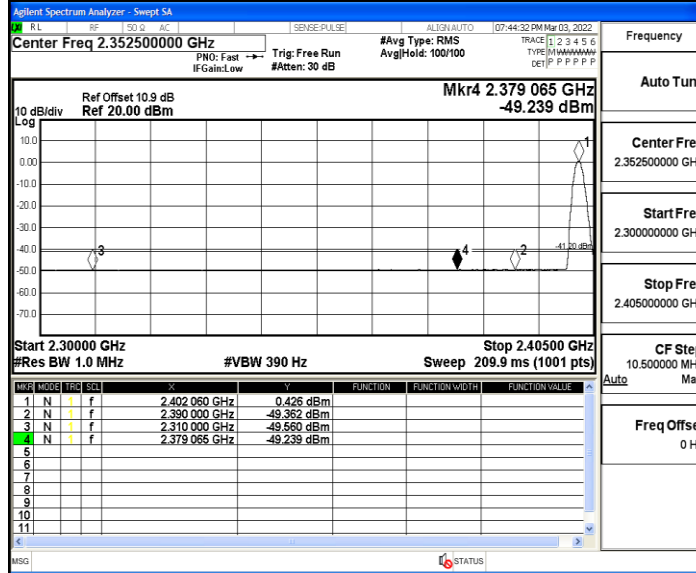
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.56	≤-41.20	PASS
				AV	2379.065	-49.24	≤-41.20	PASS
				AV	2390.000	-49.36	≤-41.20	PASS
				Peak	2310.000	-42.23	≤-21.20	PASS
				Peak	2311.970	-39.17	≤-21.20	PASS
				Peak	2390.000	-43.28	≤-21.20	PASS
		High	2480	AV	2483.500	-48.59	≤-41.20	PASS
				AV	2499.600	-48.54	≤-41.20	PASS
				AV	2500.000	-48.6	≤-41.20	PASS
				Peak	2483.500	-41.47	≤-21.20	PASS
				Peak	2486.640	-39.31	≤-21.20	PASS
				Peak	2500.000	-40.36	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.67	≤-41.20	PASS
				AV	2373.290	-49.2	≤-41.20	PASS
				AV	2390.000	-49.34	≤-41.20	PASS
				Peak	2310.000	-42.93	≤-21.20	PASS
				Peak	2373.710	-39.07	≤-21.20	PASS
				Peak	2390.000	-42.76	≤-21.20	PASS
		High	2480	AV	2483.500	-48.71	≤-41.20	PASS
				AV	2499.760	-48.56	≤-41.20	PASS
				AV	2500.000	-48.66	≤-41.20	PASS
				Peak	2483.500	-42.54	≤-21.20	PASS
				Peak	2499.040	-39.37	≤-21.20	PASS
				Peak	2500.000	-41.98	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.61	≤-41.20	PASS
				AV	2386.205	-49.18	≤-41.20	PASS
				AV	2390.000	-49.31	≤-41.20	PASS
				Peak	2310.000	-41.14	≤-21.20	PASS
				Peak	2325.830	-39.51	≤-21.20	PASS
				Peak	2390.000	-42.21	≤-21.20	PASS
		High	2480	AV	2483.500	-48.8	≤-41.20	PASS
				AV	2497.840	-48.58	≤-41.20	PASS
				AV	2500.000	-48.59	≤-41.20	PASS
				Peak	2483.500	-41.39	≤-21.20	PASS
				Peak	2488.720	-38.8	≤-21.20	PASS
				Peak	2500.000	-40.82	≤-21.20	PASS

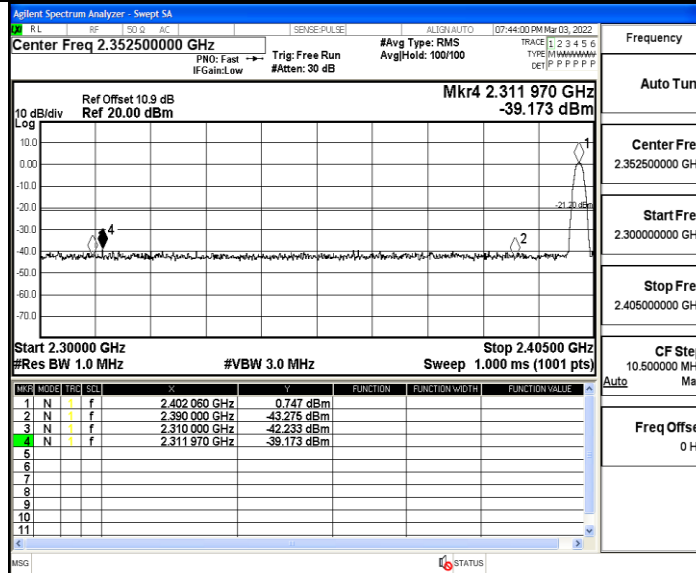
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

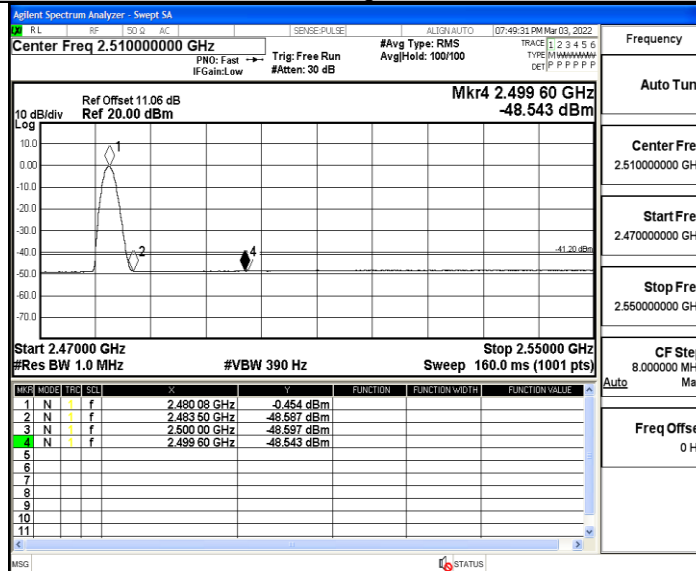
DH5_Ant1_Low_2402_AV



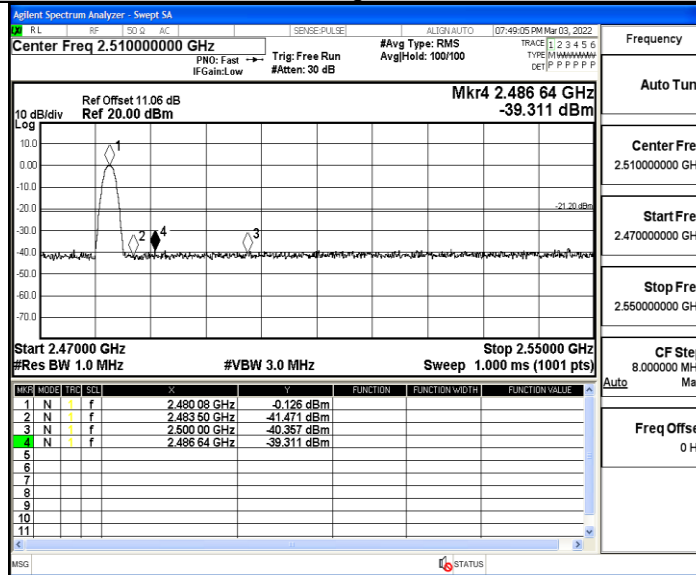
DH5_Ant1_Low_2402_Peak



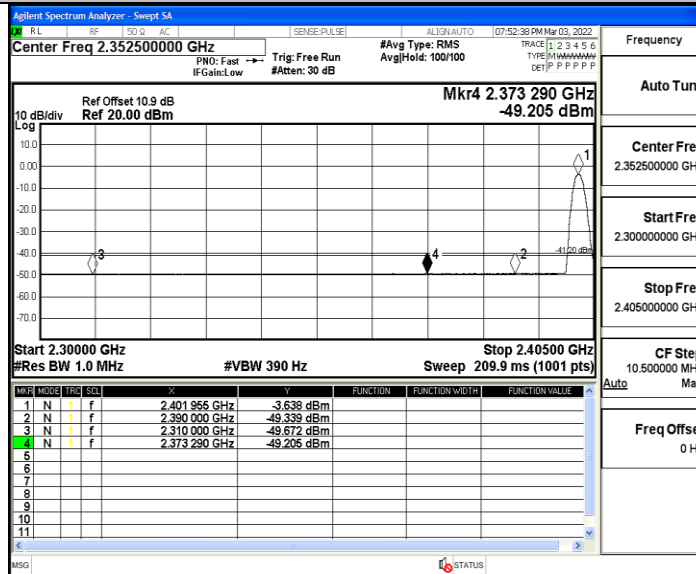
DH5_Ant1_High_2480_AV



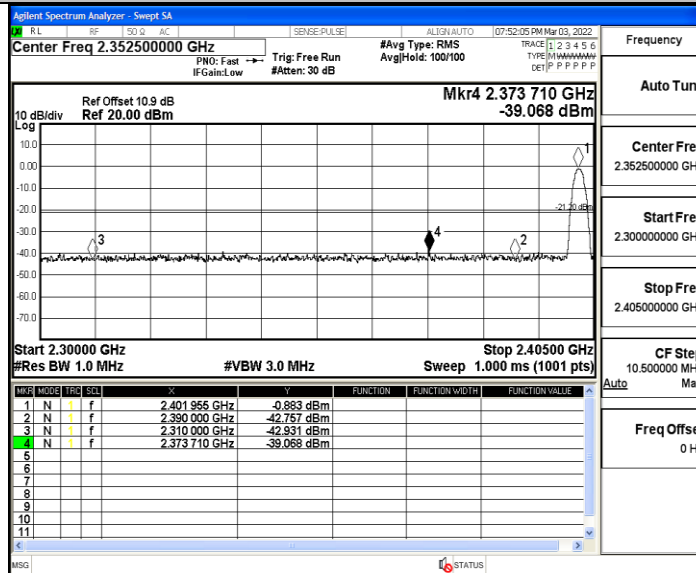
DH5_Ant1_High_2480_Peak



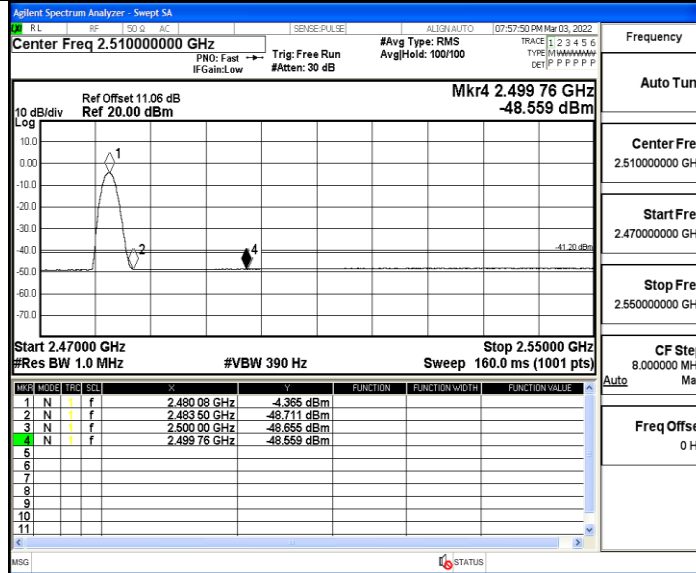
2DH5_Ant1_Low_2402_AV



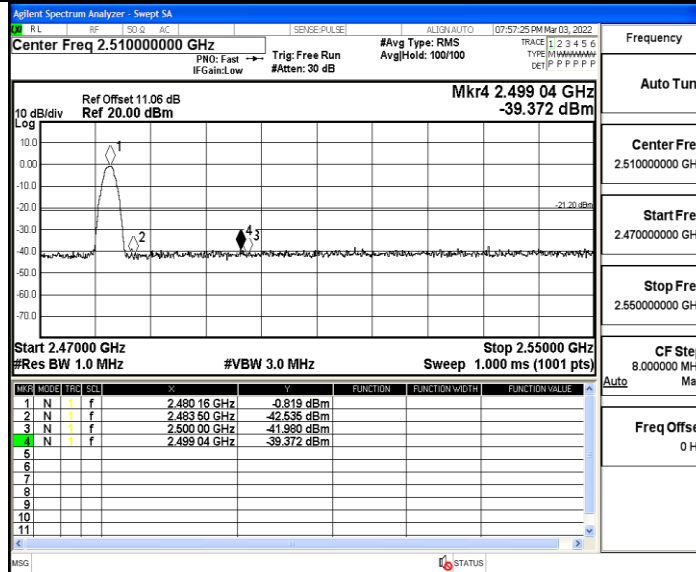
2DH5_Ant1_Low_2402_Peak



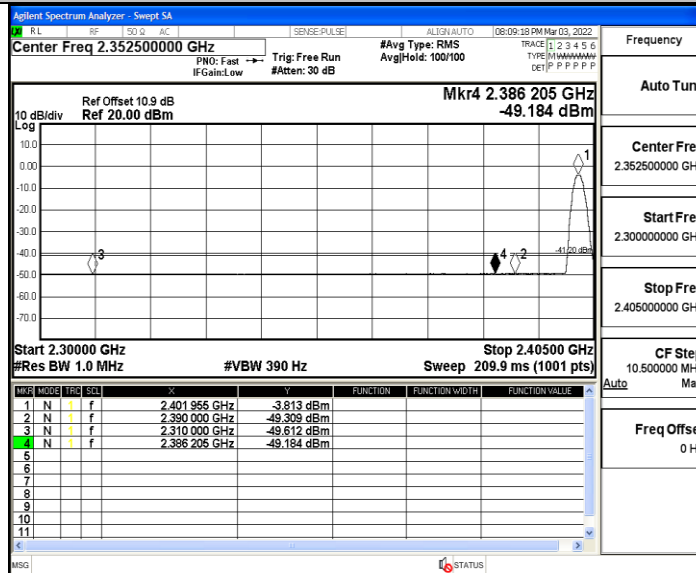
2DH5_Ant1_High_2480_AV



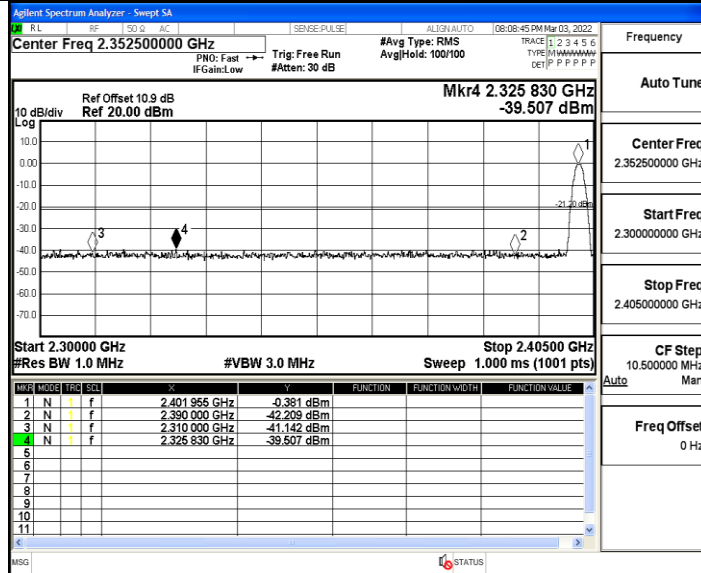
2DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_2402_AV

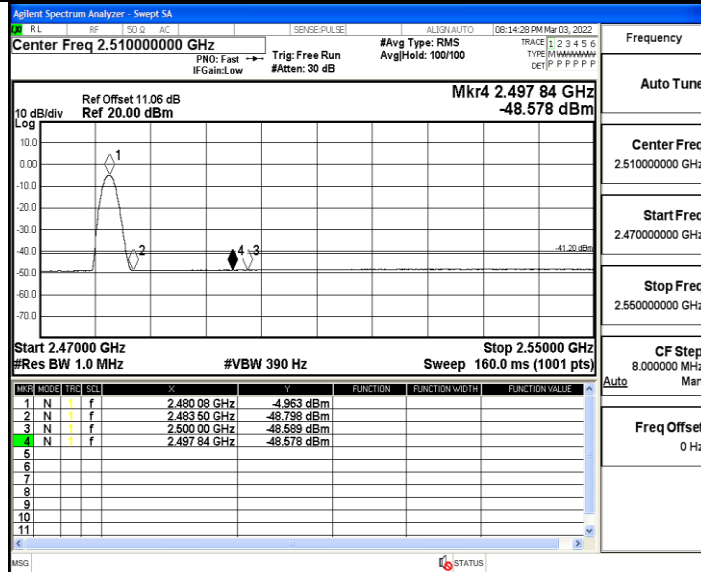


3DH5_Ant1_Low_2402_Peak



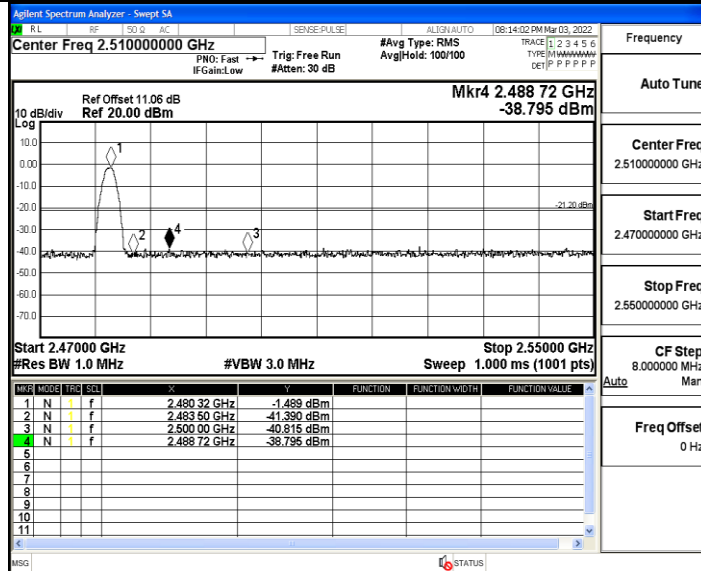
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Center Freq	2.352500000 GHz
Start Freq	2.300000000 GHz
Stop Freq	2.405000000 GHz
CF Step	10.50000000 MHz
Freq Offset	0 Hz

3DH5_Ant1_High_2480_AV



Frequency	Auto Tune
Center Freq	2.510000000 GHz
Start Freq	2.470000000 GHz
Stop Freq	2.550000000 GHz
CF Step	8.00000000 MHz
Freq Offset	0 Hz

3DH5_Ant1_High_2480_Peak



Frequency	Auto Tune
Center Freq	2.510000000 GHz
Start Freq	2.470000000 GHz
Stop Freq	2.550000000 GHz
CF Step	8.00000000 MHz
Freq Offset	0 Hz