

Appendix A

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

Product Name: Ture Wireless Stereo Earbuds

Trade Mark: Lasuney

Test Model: T72

FCC ID: 2A5OU-T72

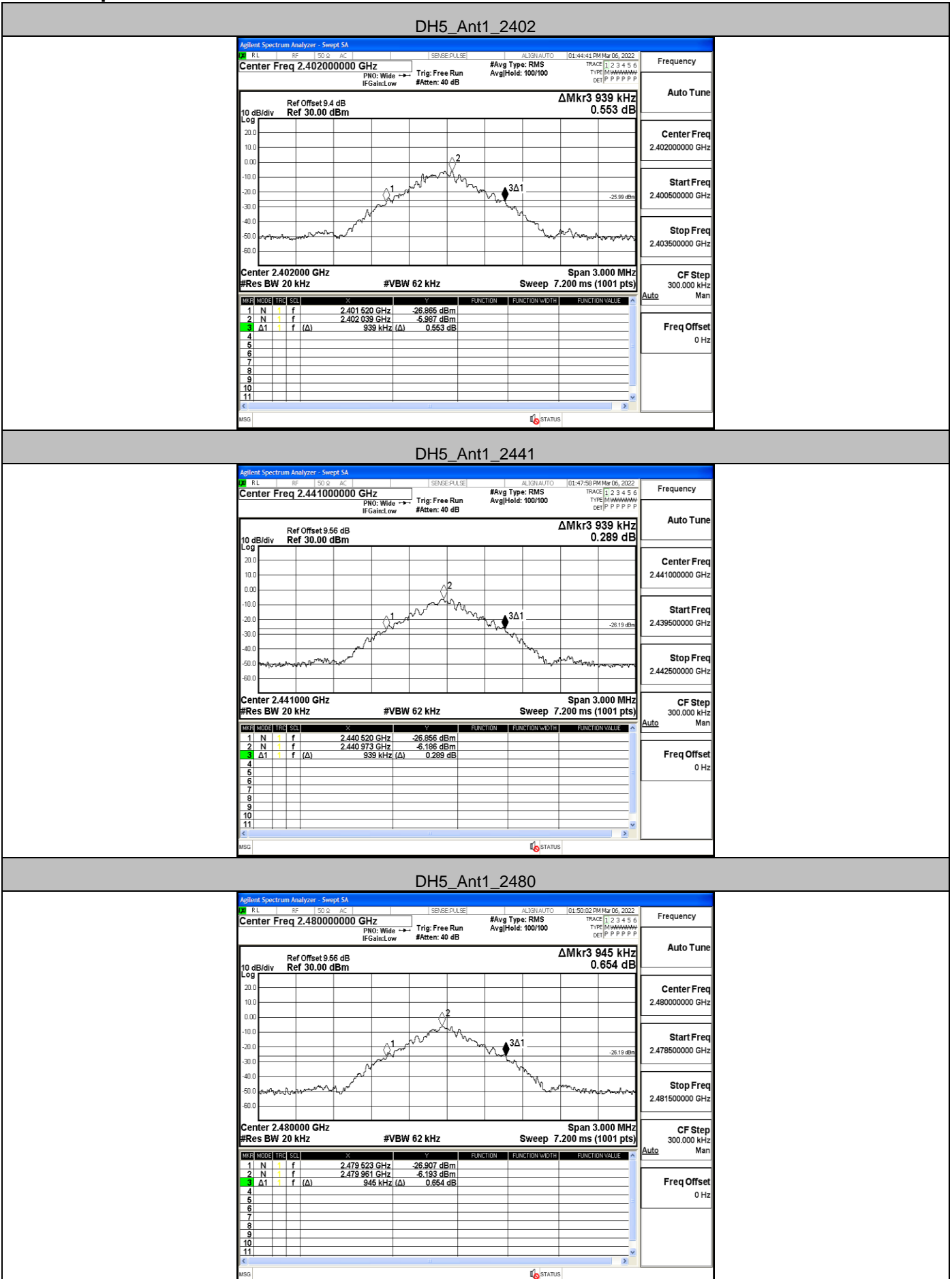
Environmental Conditions

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

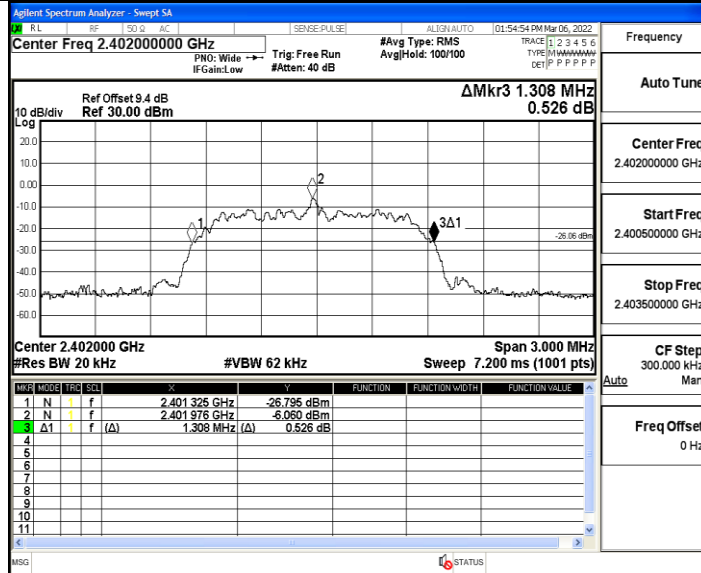
A.1 20 dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.520	2402.459	---	---
		2441	0.939	2440.520	2441.459	---	---
		2480	0.945	2479.523	2480.468	---	---
2DH5	Ant1	2402	1.308	2401.325	2402.633	---	---
		2441	1.314	2440.322	2441.636	---	---
		2480	1.335	2479.313	2480.648	---	---
3DH5	Ant1	2402	1.290	2401.331	2402.621	---	---
		2441	1.290	2440.331	2441.621	---	---
		2480	1.272	2479.343	2480.615	---	---

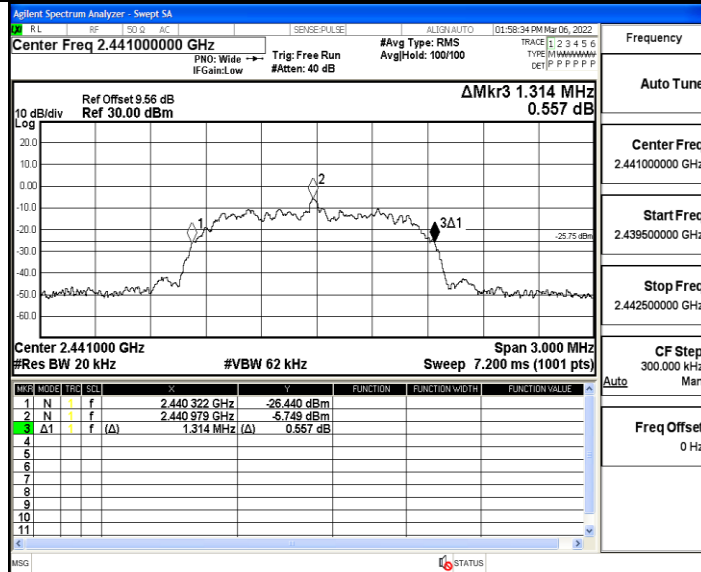
Test Graph



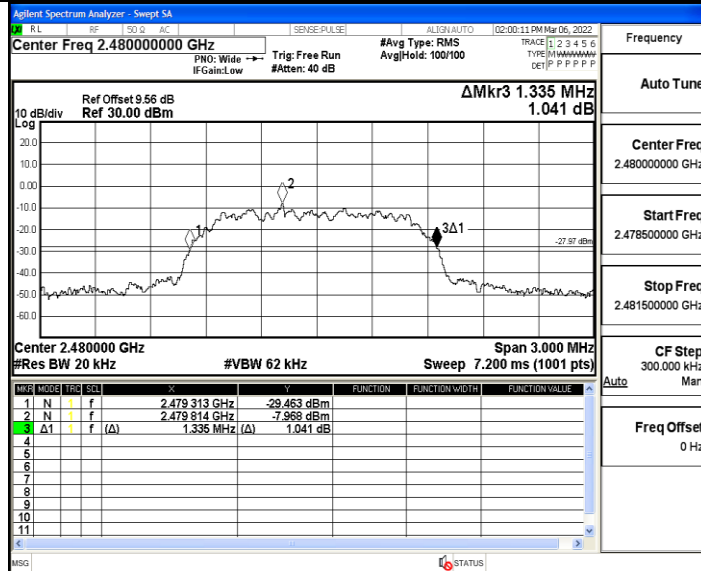
2DH5_Ant1_2402



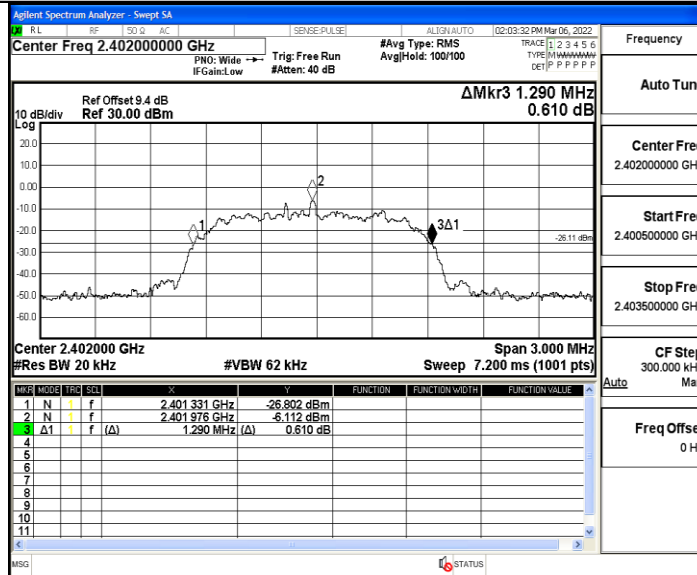
2DH5_Ant1_2441



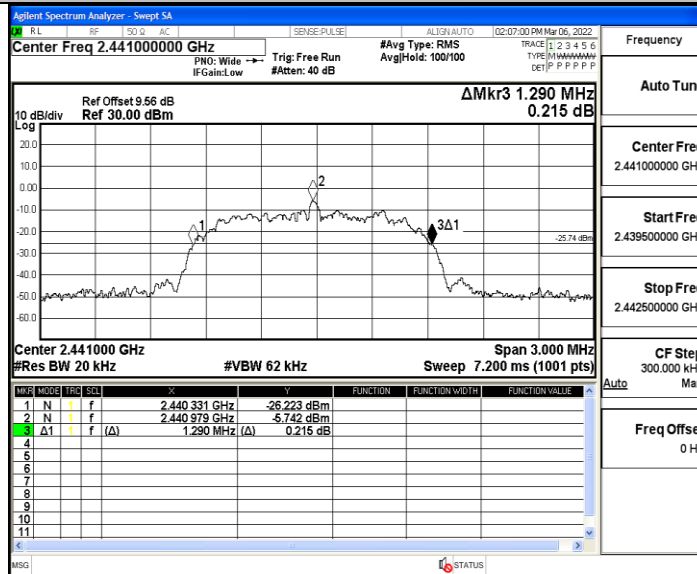
2DH5_Ant1_2480



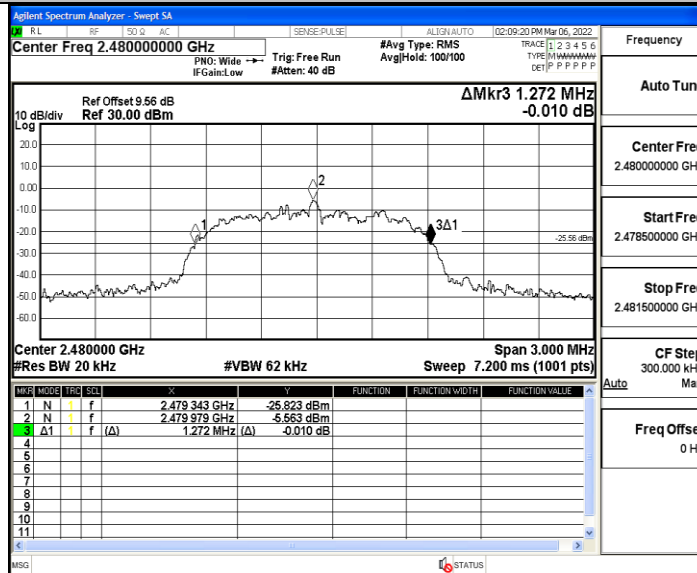
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

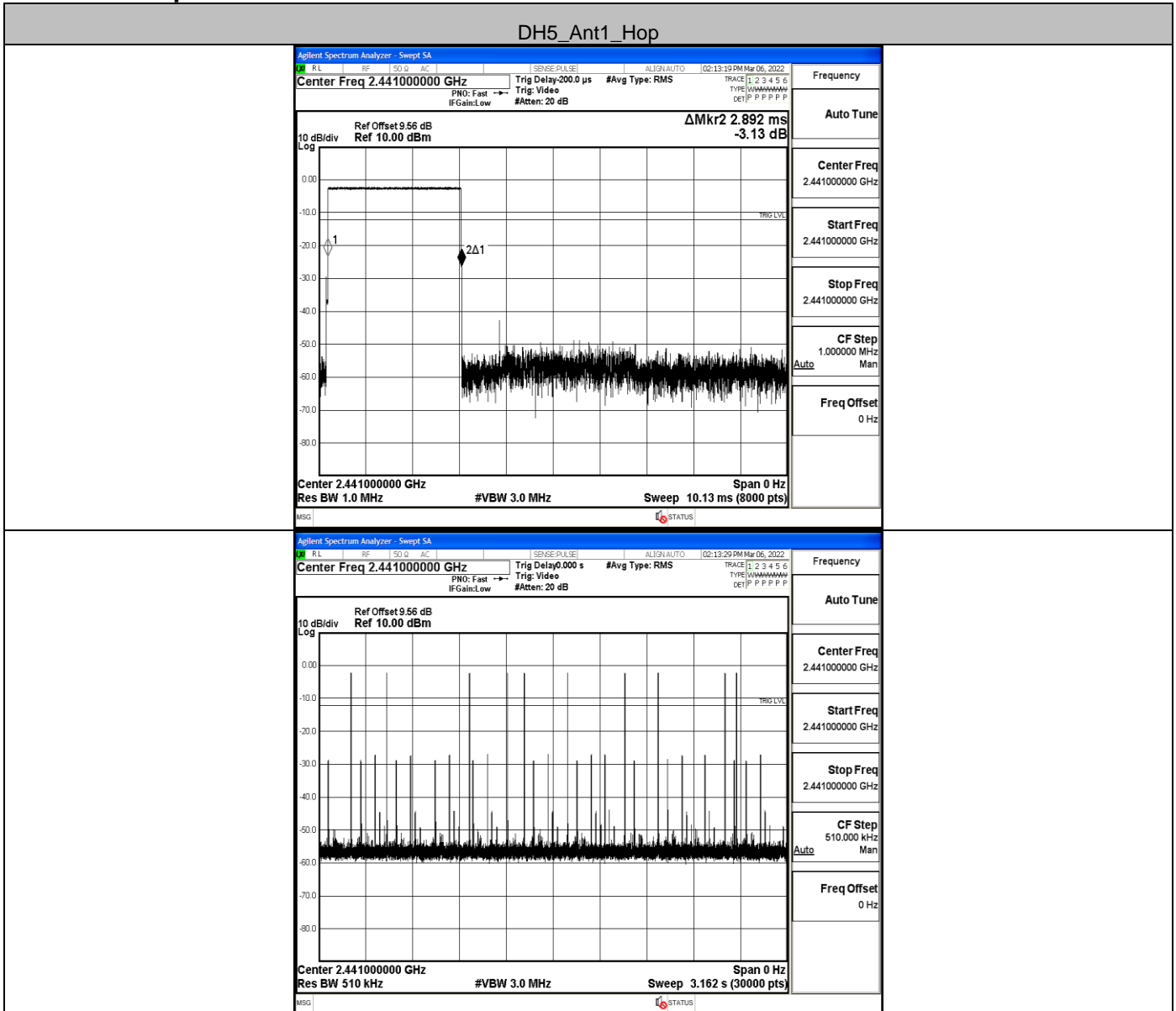


A.2 Dwell Time

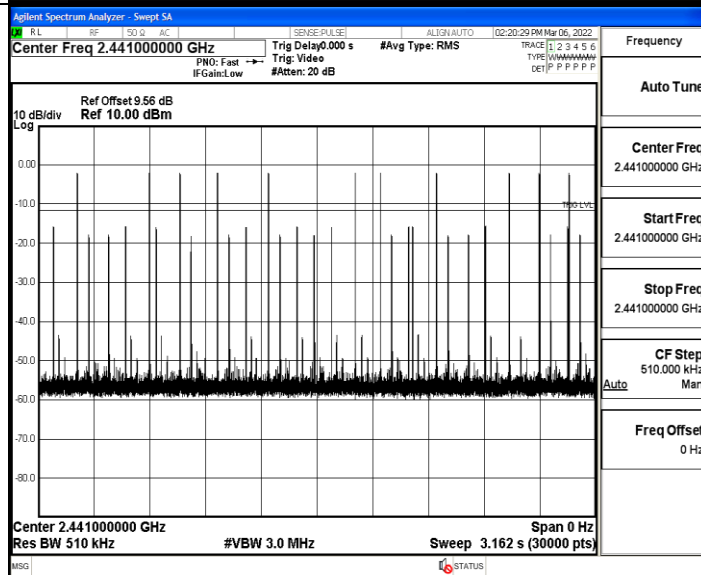
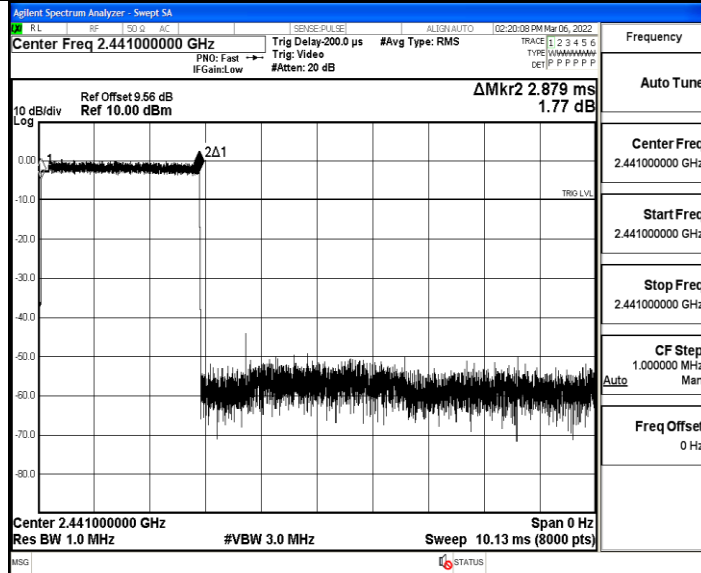
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	110	0.318	≤0.4	PASS
2DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS
3DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS

Test Graph

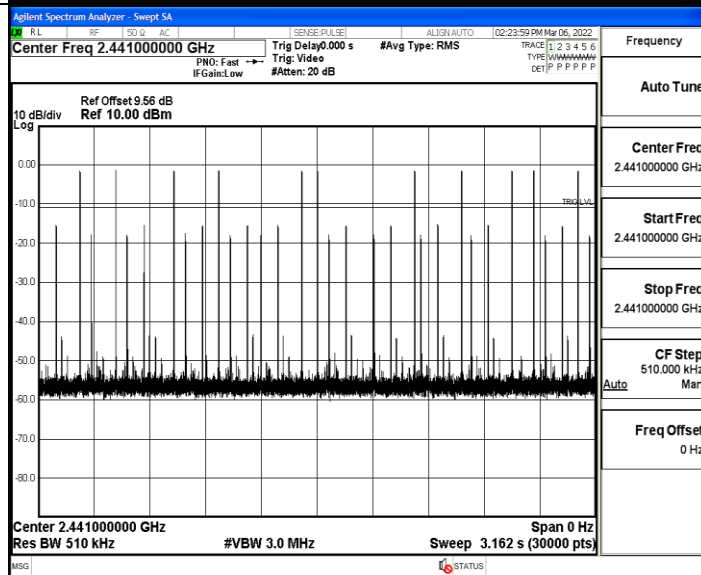
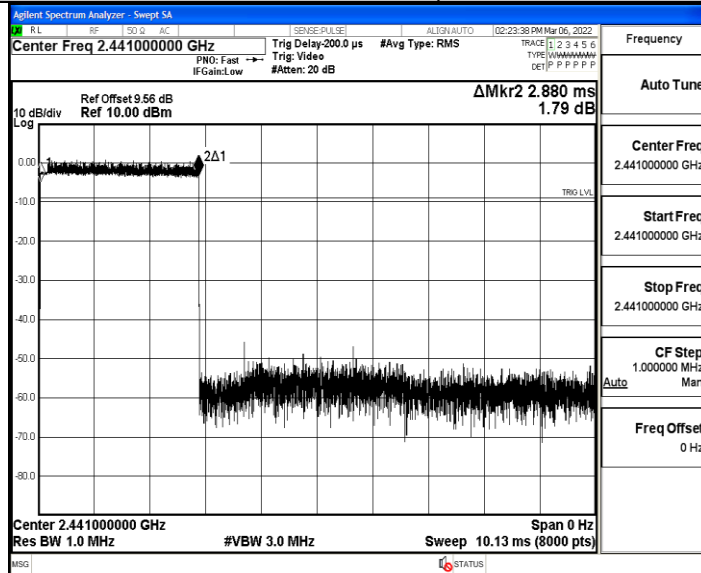
DH5_Ant1_Hop



2DH5_Ant1_Hop



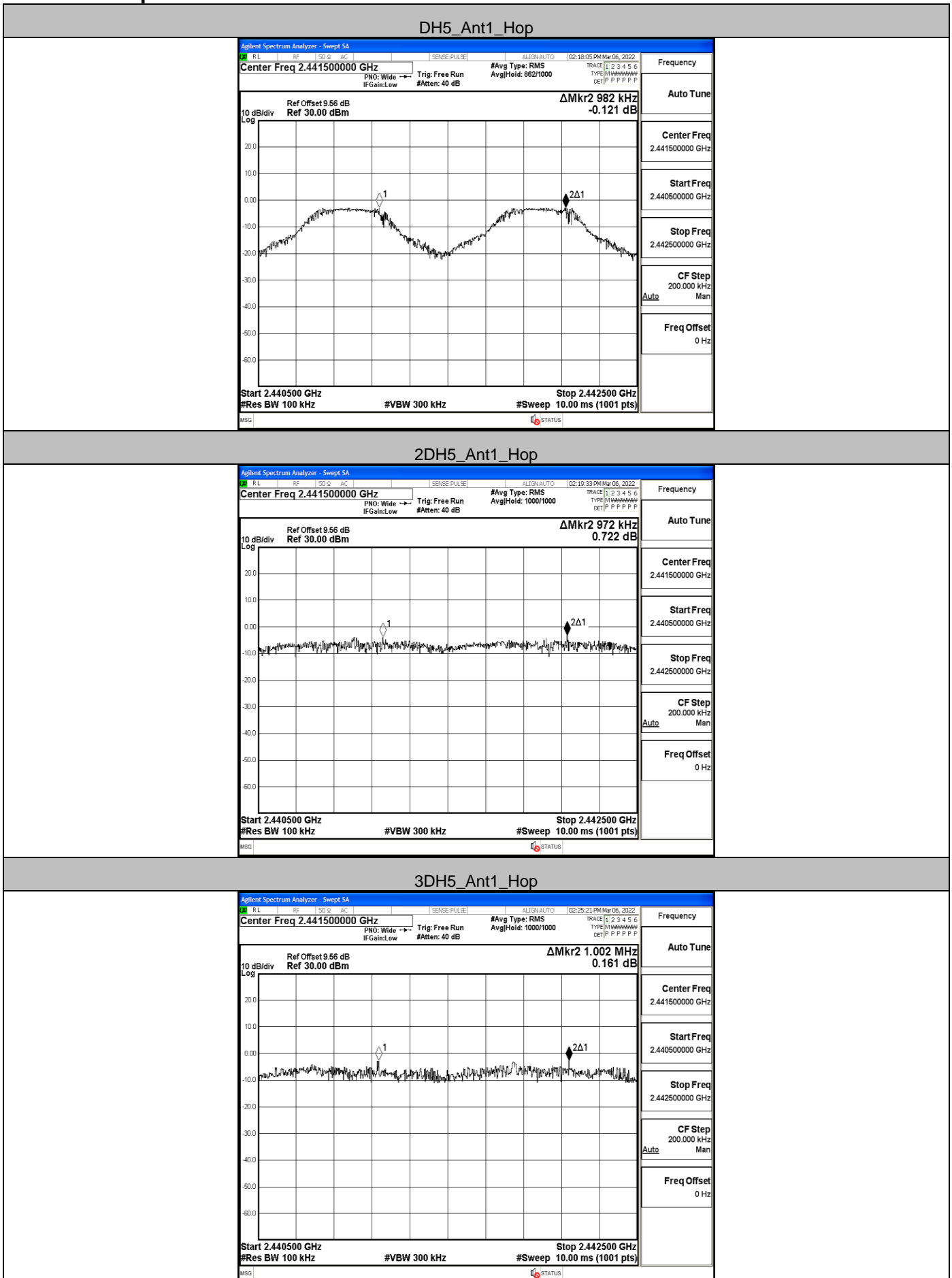
3DH5_Ant1_Hop



A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.982	≥0.945	PASS
2DH5	Ant1	Hop	0.972	≥0.890	PASS
3DH5	Ant1	Hop	1.002	≥0.860	PASS

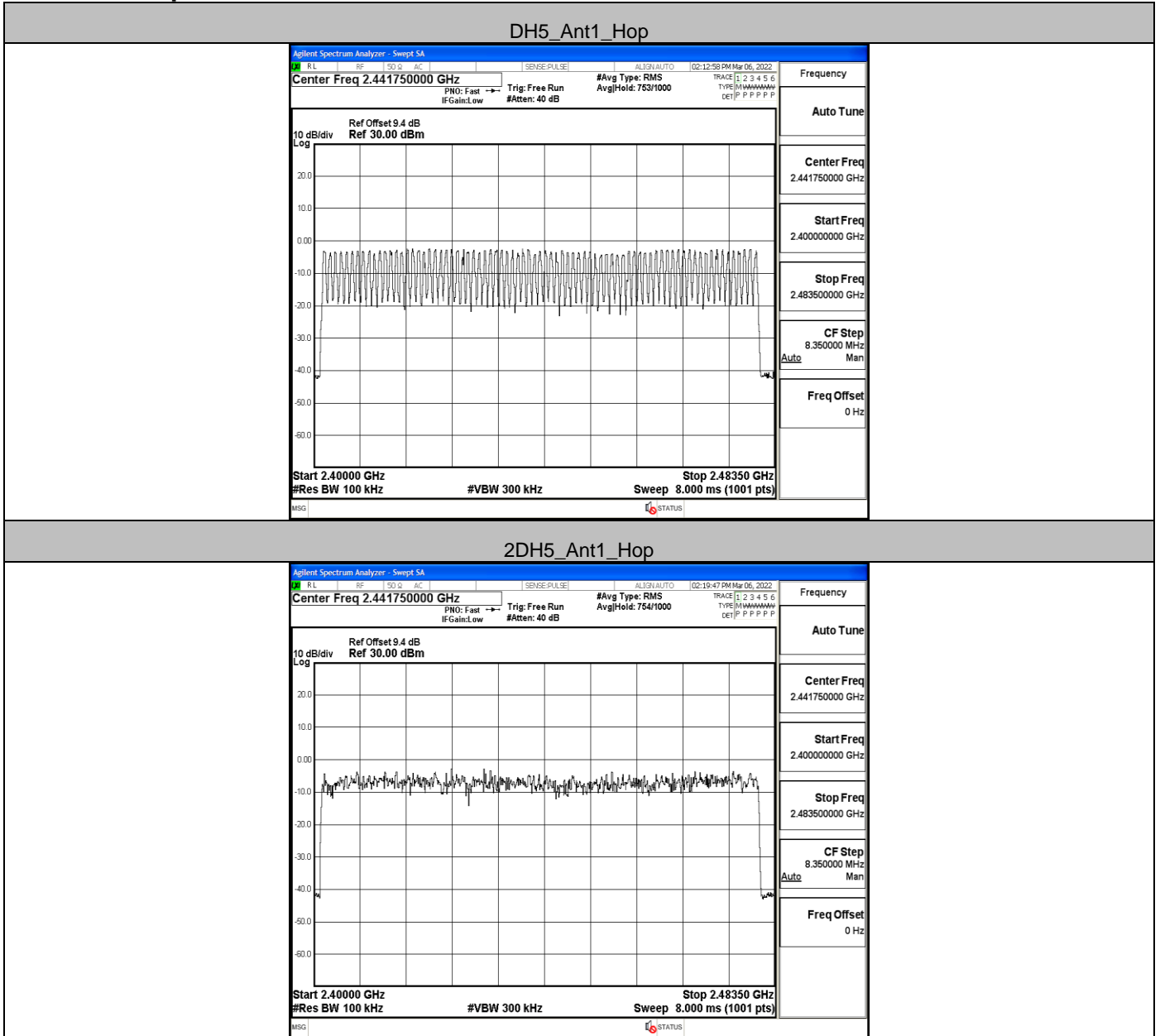
Test Graph



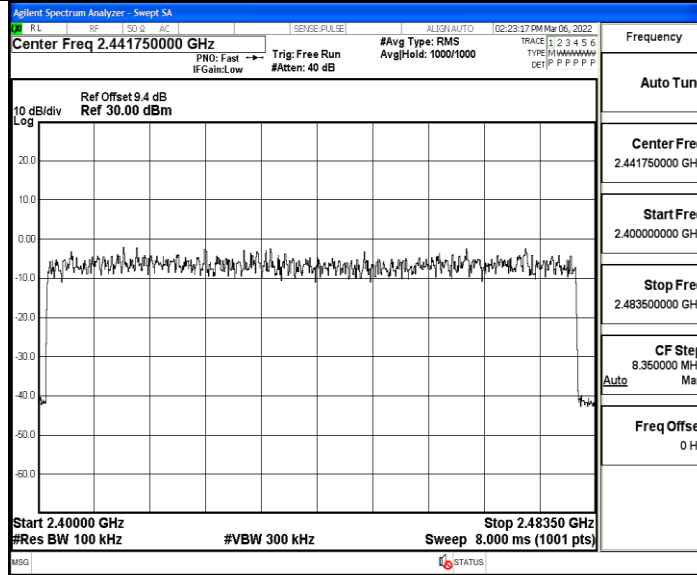
A.4 Hopping Channel Number

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



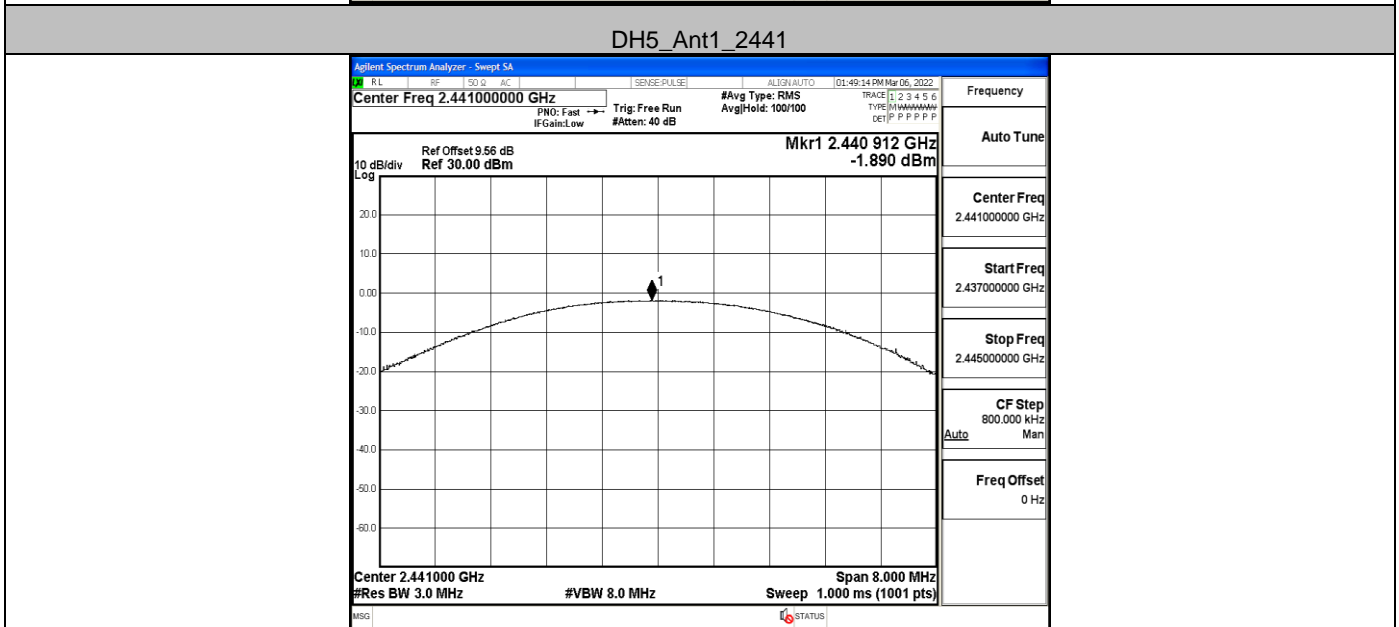
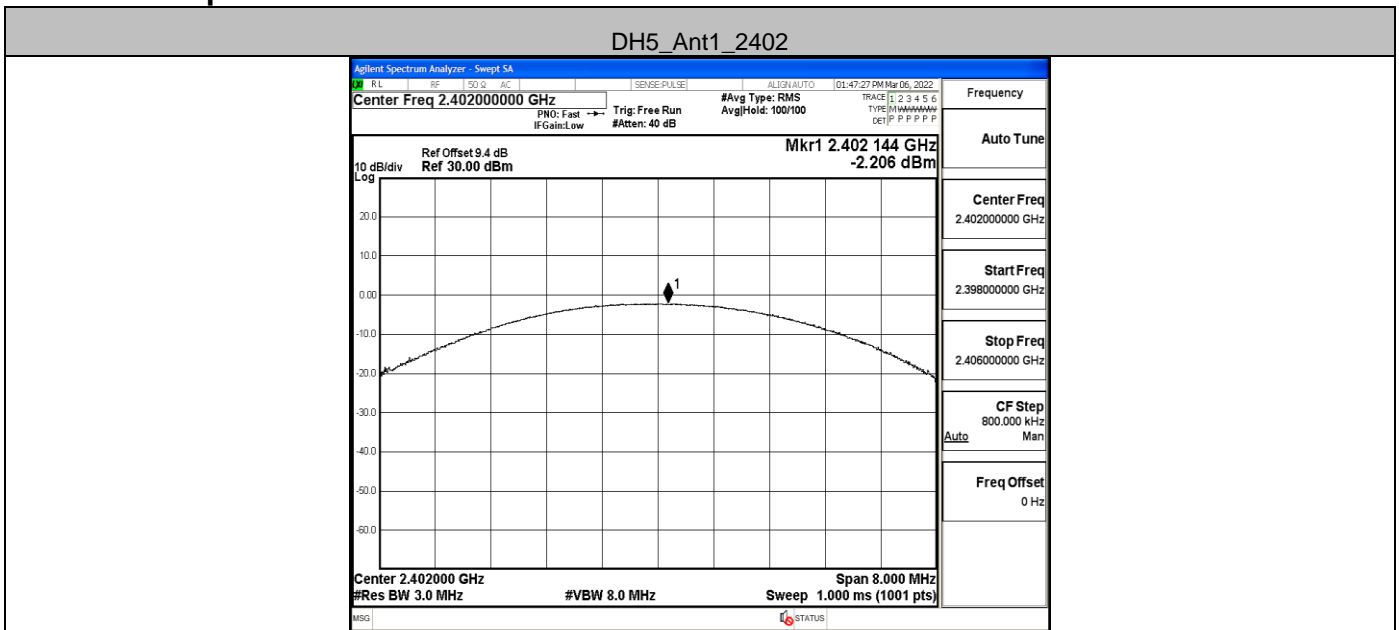
3DH5_Ant1_Hop



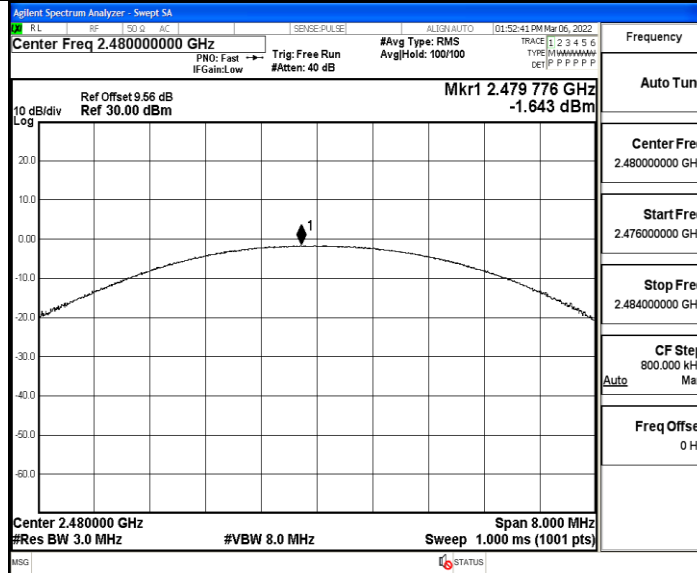
A.5 Conducted Peak Output Power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-2.21	≤30	PASS
		2441	-1.89	≤30	PASS
		2480	-1.64	≤30	PASS
2DH5	Ant1	2402	0.49	≤20.97	PASS
		2441	0.82	≤20.97	PASS
		2480	0.97	≤20.97	PASS
3DH5	Ant1	2402	0.99	≤20.97	PASS
		2441	1.59	≤20.97	PASS
		2480	1.98	≤20.97	PASS

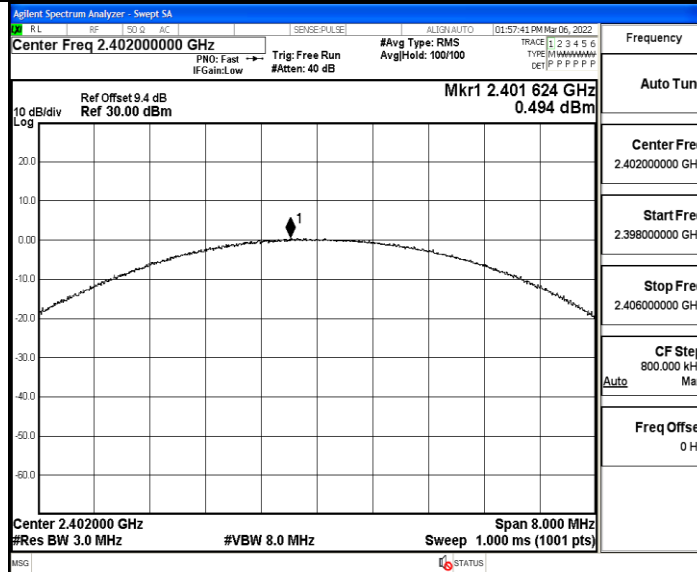
Test Graph



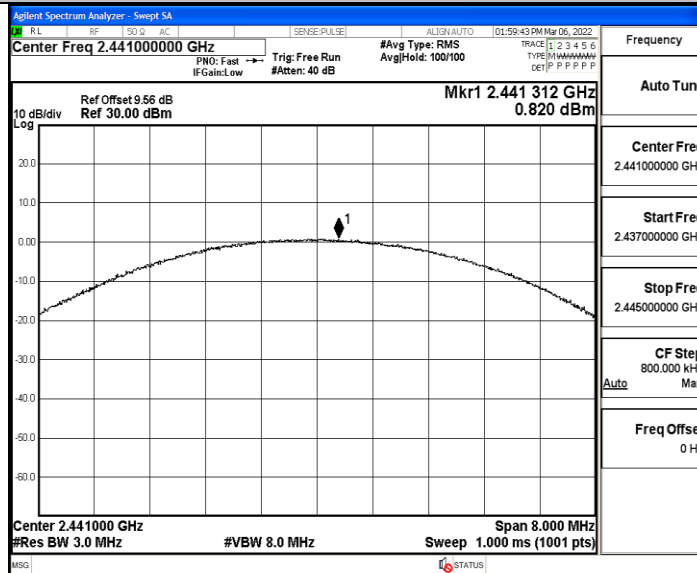
DH5_Ant1_2480



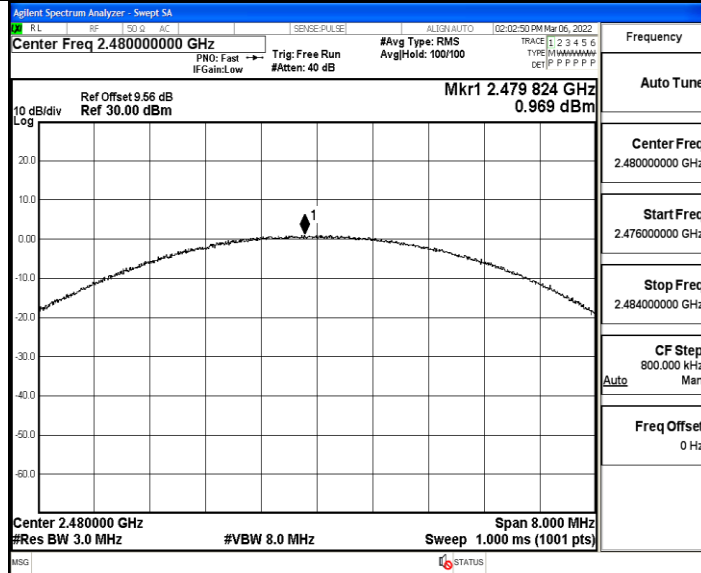
2DH5_Ant1_2402



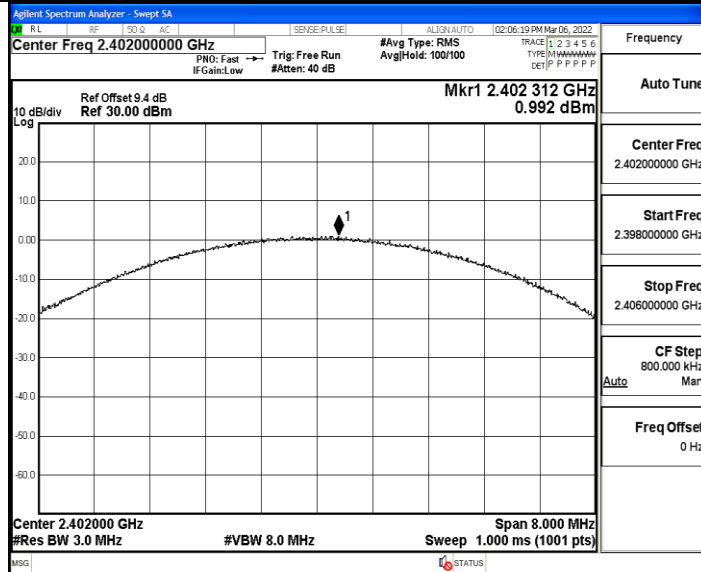
2DH5_Ant1_2441



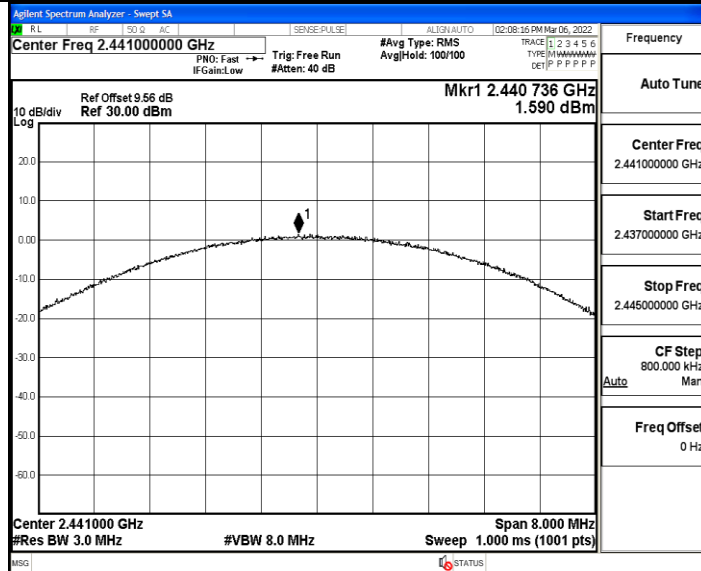
2DH5_Ant1_2480



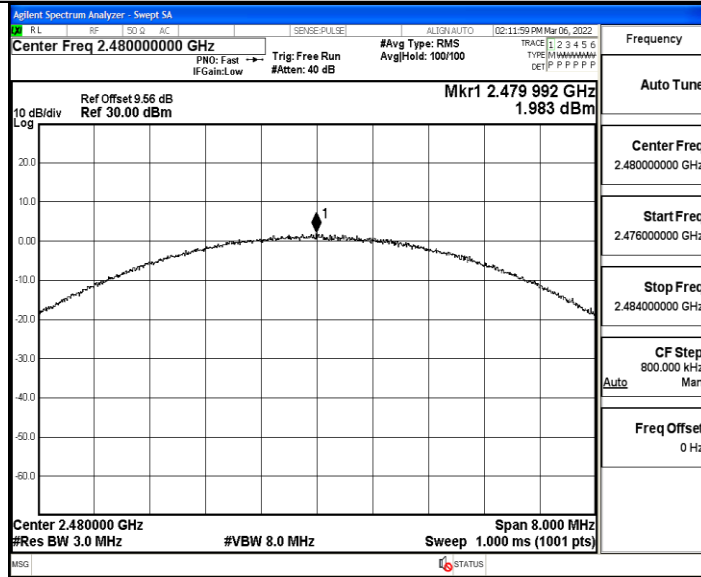
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

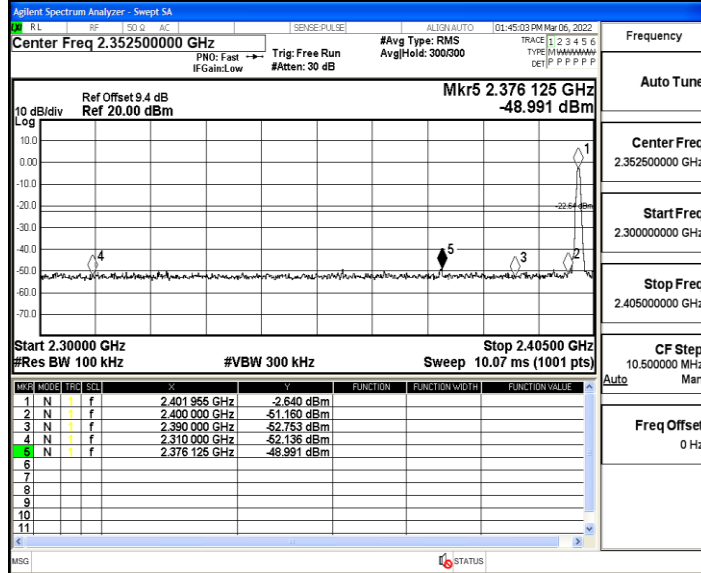


A.6 Band-edge for RF Conducted Emissions

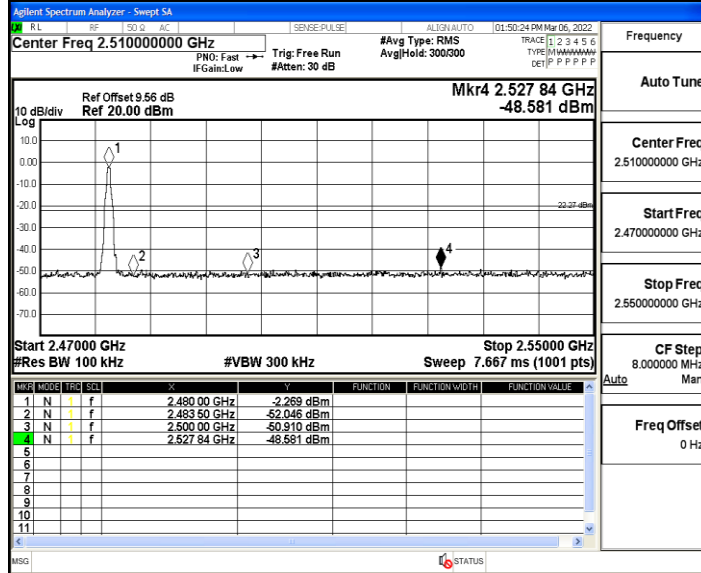
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.64	-48.99	≤-22.64	PASS
		High	2480	-2.27	-48.58	≤-22.27	PASS
		Low	Hop_2402	-3.98	-48.79	≤-23.98	PASS
		High	Hop_2480	-1.95	-48.21	≤-21.95	PASS
2DH5	Ant1	Low	2402	-3.61	-48.98	≤-23.61	PASS
		High	2480	-2.80	-48.97	≤-22.8	PASS
		Low	Hop_2402	-3.28	-49.42	≤-23.28	PASS
		High	Hop_2480	-4.12	-48.85	≤-24.12	PASS
3DH5	Ant1	Low	2402	-2.91	-49.26	≤-22.91	PASS
		High	2480	-2.88	-48.95	≤-22.88	PASS
		Low	Hop_2402	-5.17	-50.08	≤-25.17	PASS
		High	Hop_2480	-4.33	-49.46	≤-24.33	PASS

Test Graph

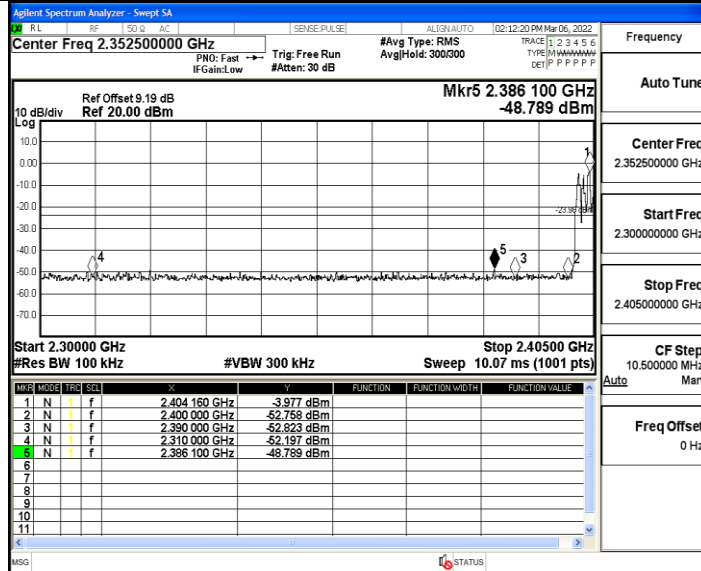
DH5_Ant1_Low_2402



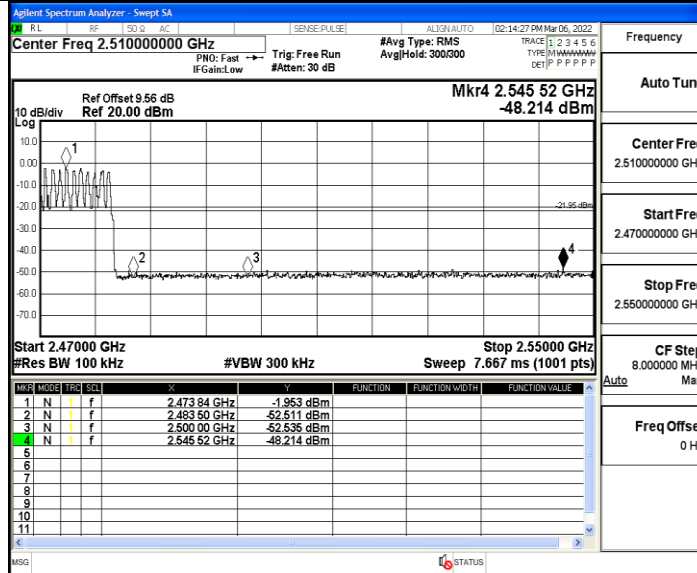
DH5_Ant1_High_2480



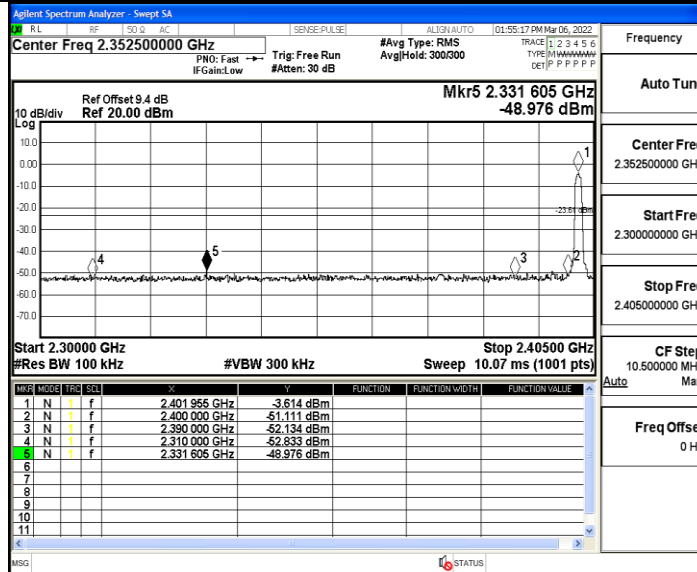
DH5_Ant1_Low_Hop_2402



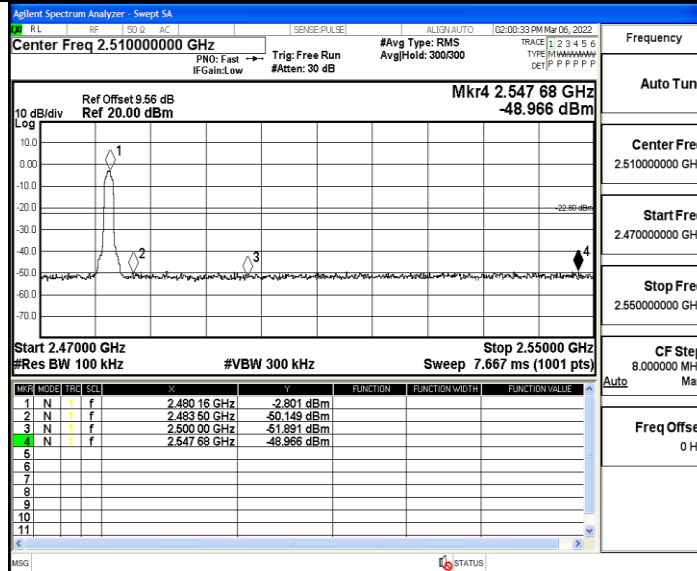
DH5_Ant1_High_Hop_2480



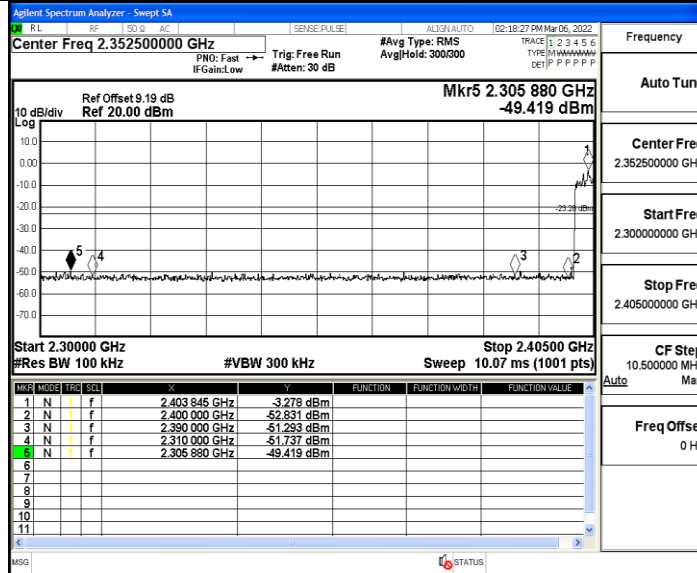
2DH5_Ant1_Low_2402



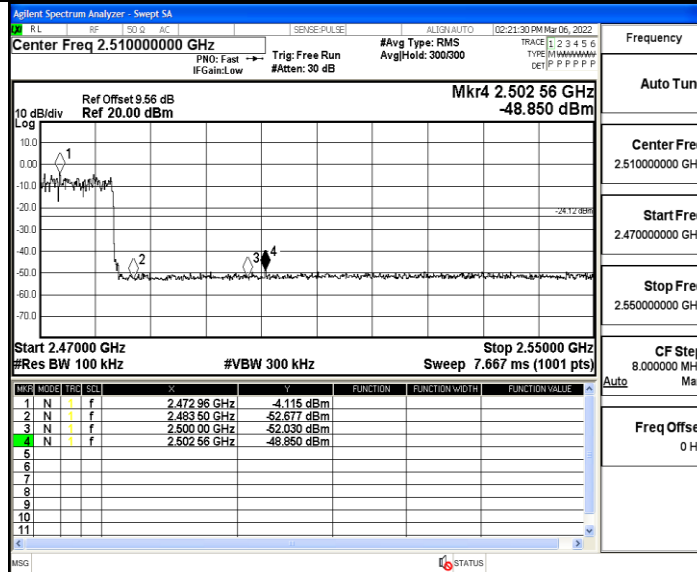
2DH5_Ant1_High_2480



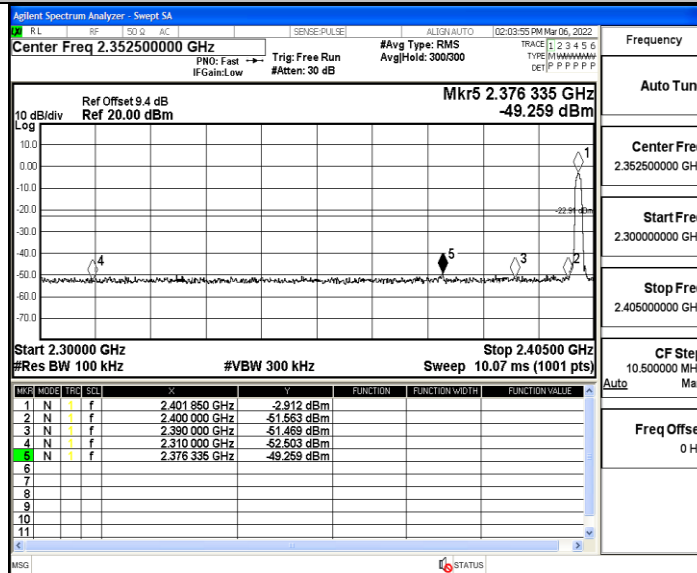
2DH5_Ant1_Low_Hop_2402



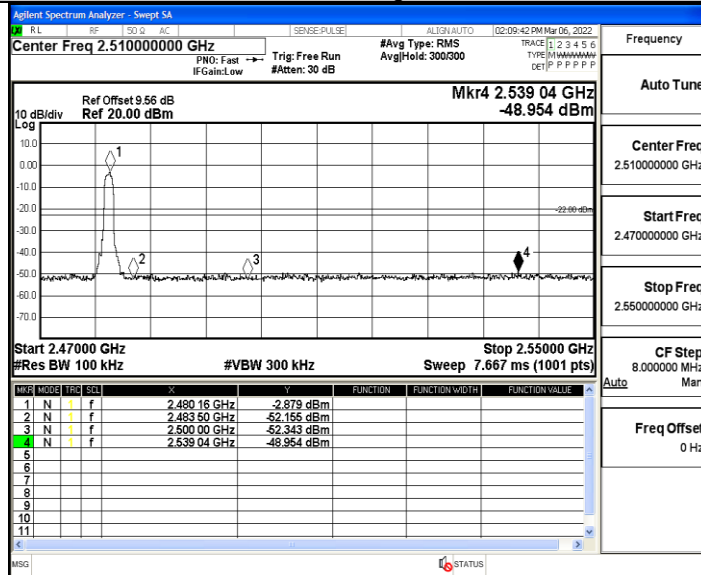
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

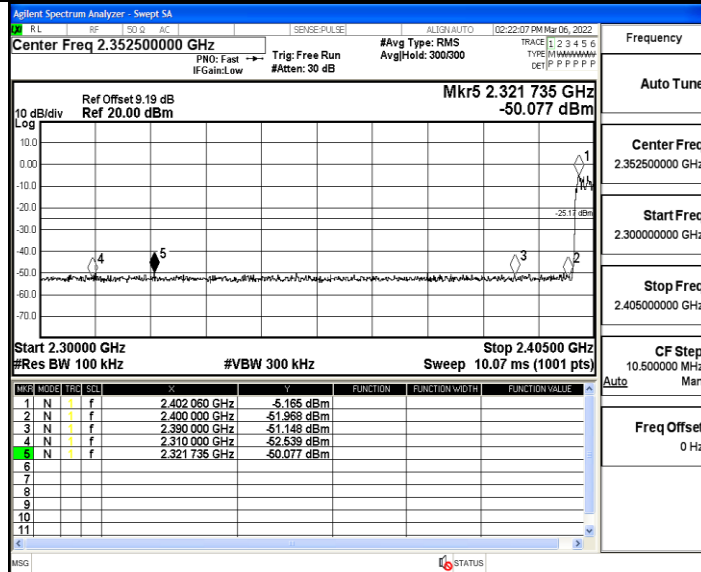


3DH5_Ant1_High_2480



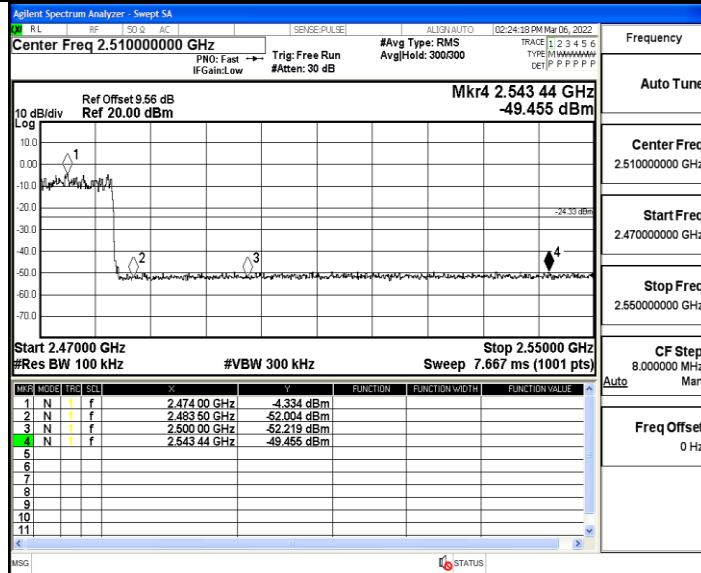
Frequency	Auto Tune
Center Freq	2.51000000 GHz
Start Freq	2.47000000 GHz
Stop Freq	2.55000000 GHz
CF Step	8.000000 MHz
Freq Offset	0 Hz

3DH5_Ant1_Low_Hop_2402



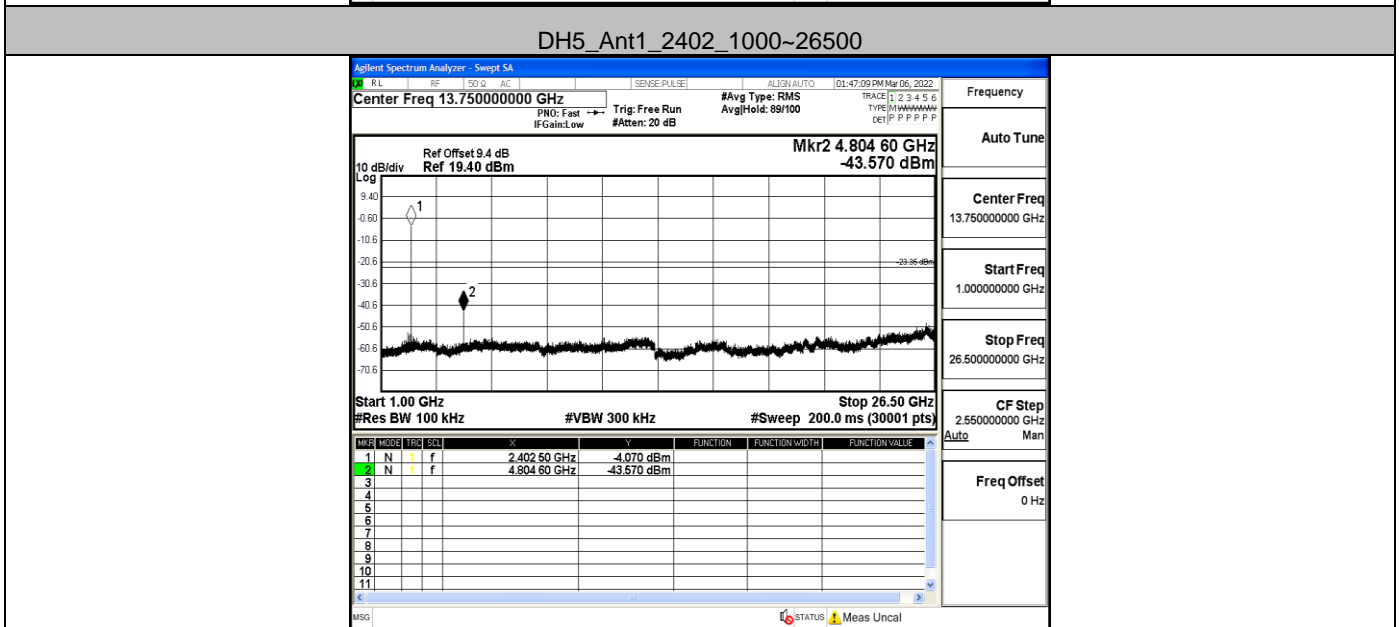
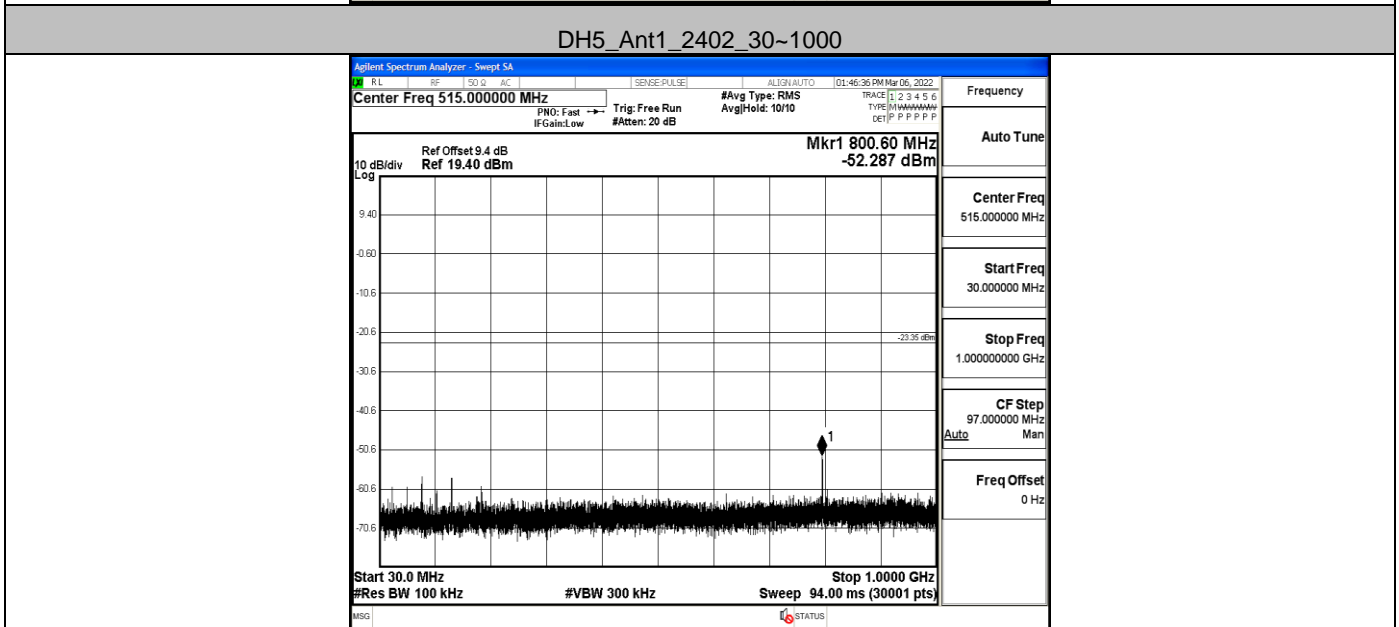
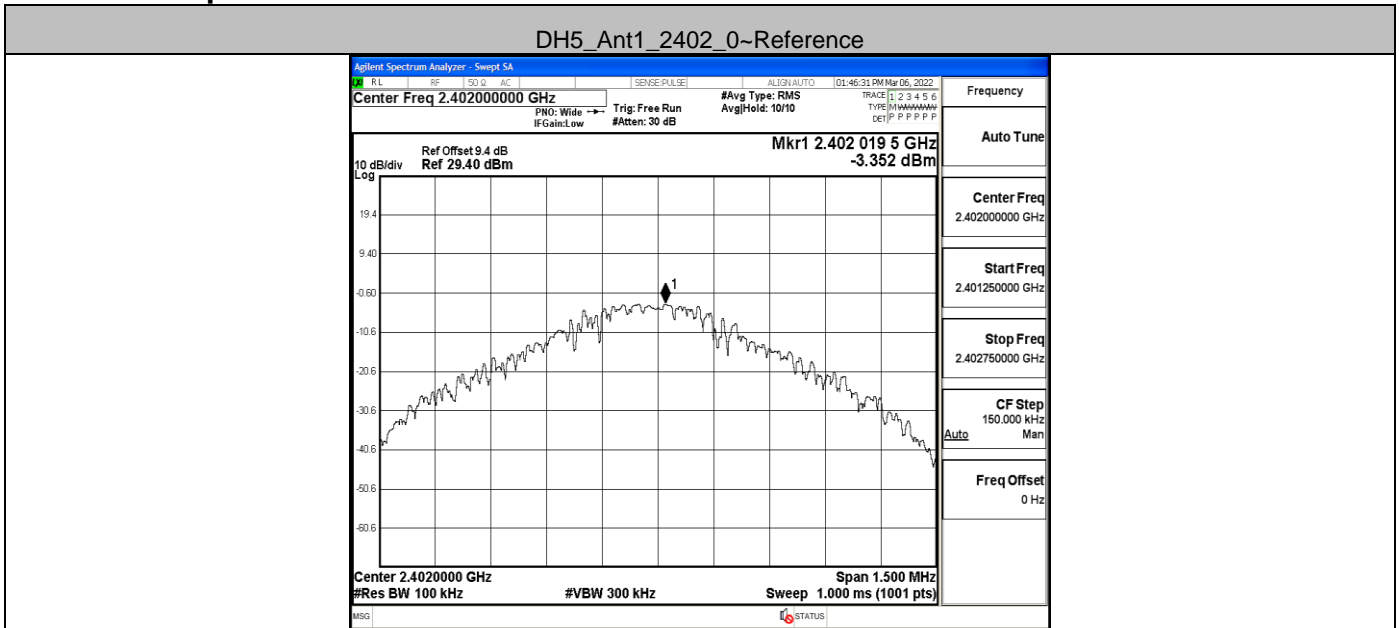
Frequency	Auto Tune
Center Freq	2.35250000 GHz
Start Freq	2.30000000 GHz
Stop Freq	2.40500000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

3DH5_Ant1_High_Hop_2480

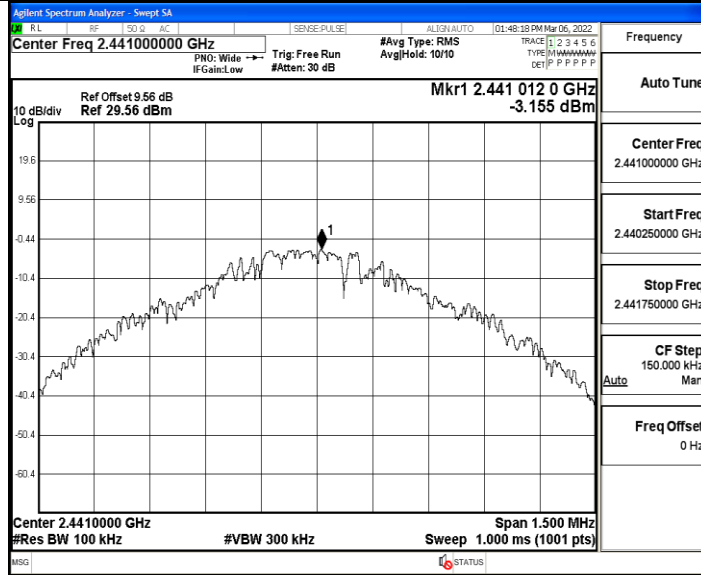


Frequency	Auto Tune
Center Freq	2.51000000 GHz
Start Freq	2.47000000 GHz
Stop Freq	2.55000000 GHz
CF Step	8.000000 MHz
Freq Offset	0 Hz

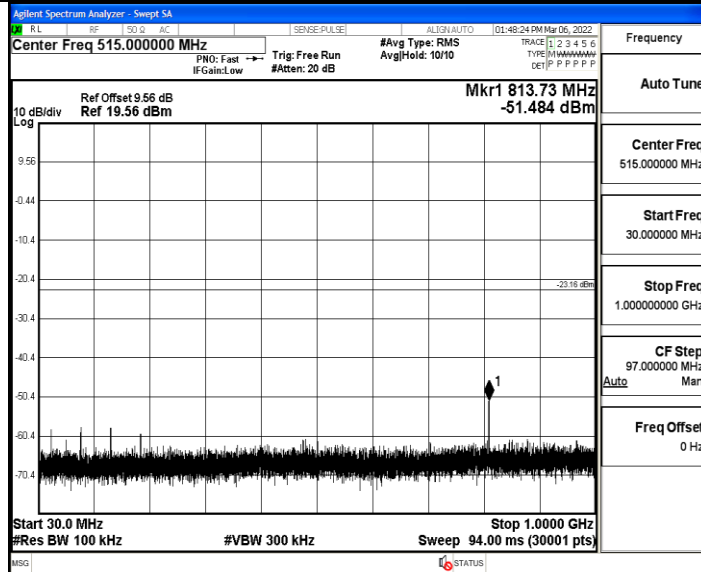
A.7 RF Conducted Spurious Emissions Test Graph



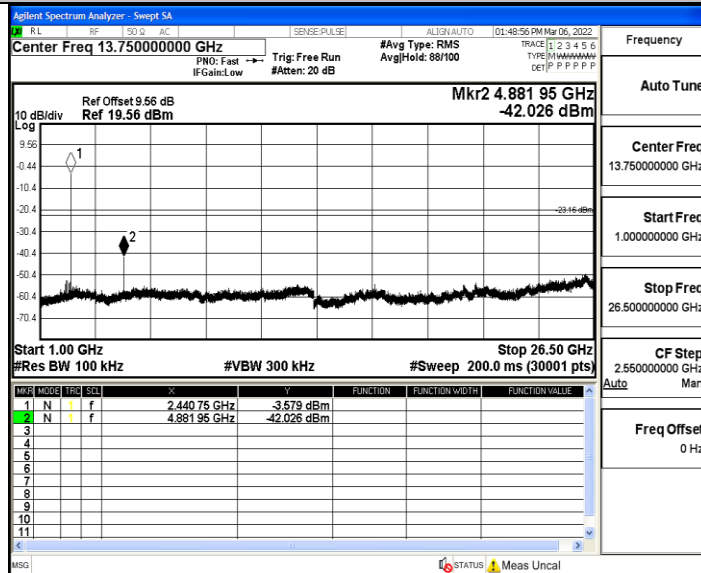
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



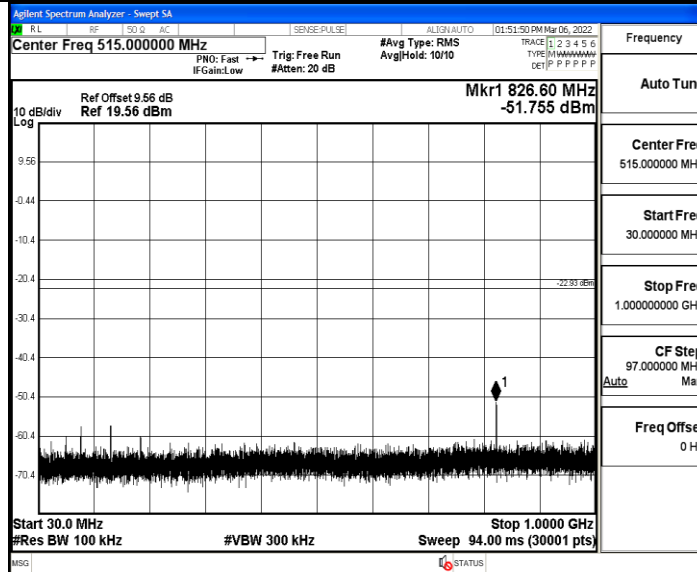
DH5_Ant1_2441_1000~26500



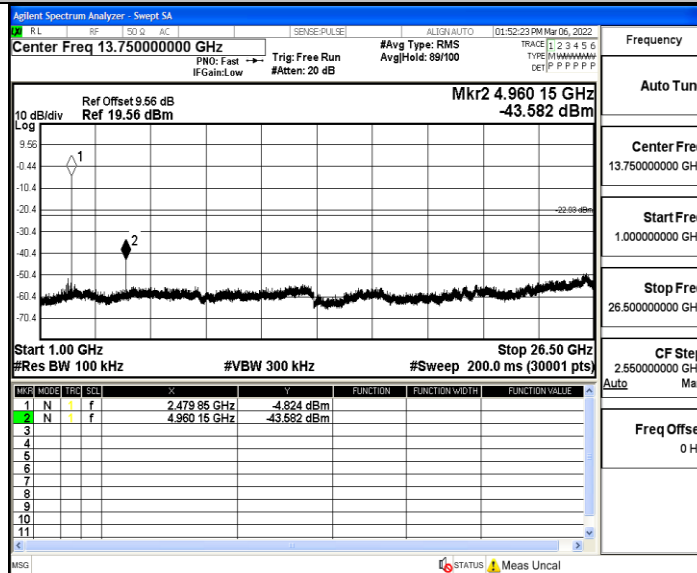
DH5_Ant1_2480_0~Reference



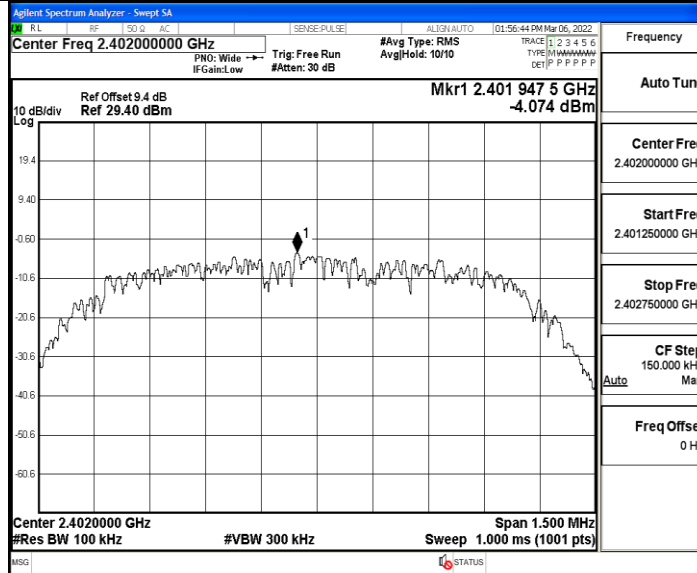
DH5_Ant1_2480_30~1000



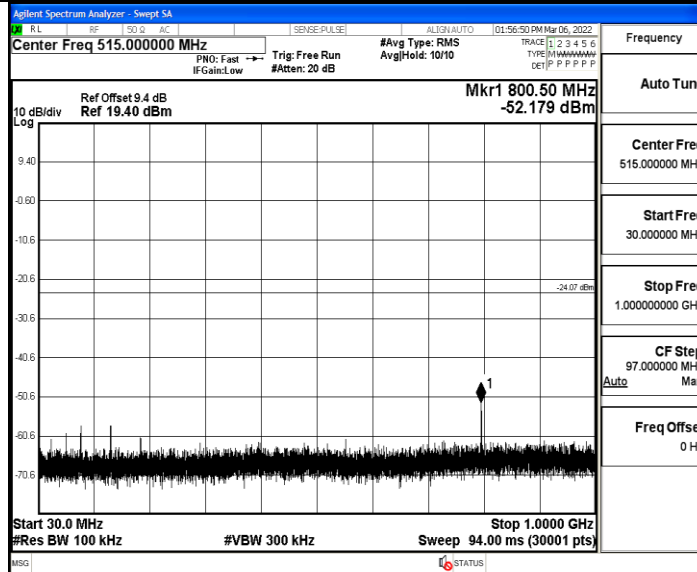
DH5_Ant1_2480_1000~26500



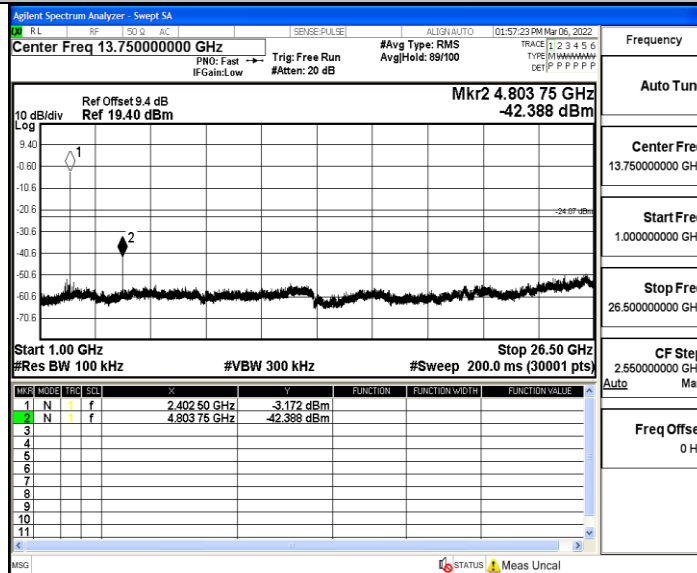
2DH5_Ant1_2402_0~Reference



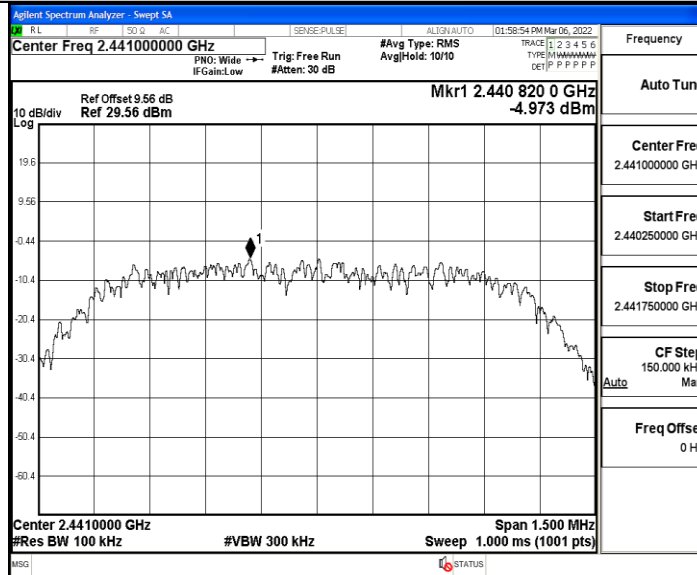
2DH5_Ant1_2402_30~1000



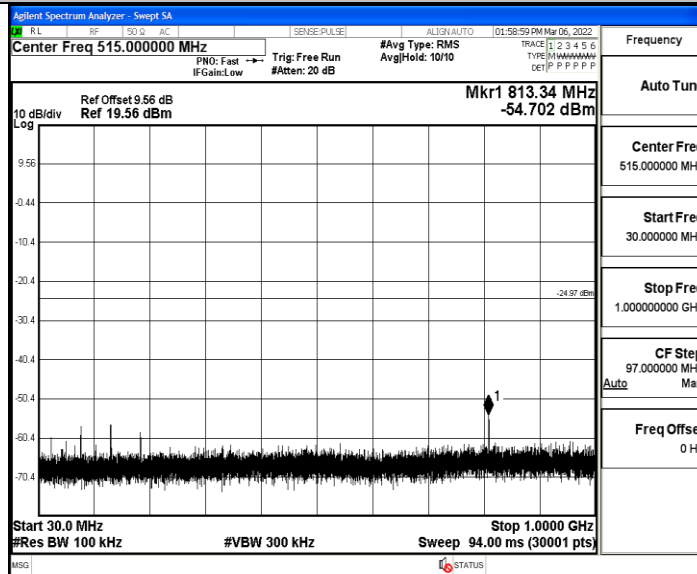
2DH5_Ant1_2402_1000~26500



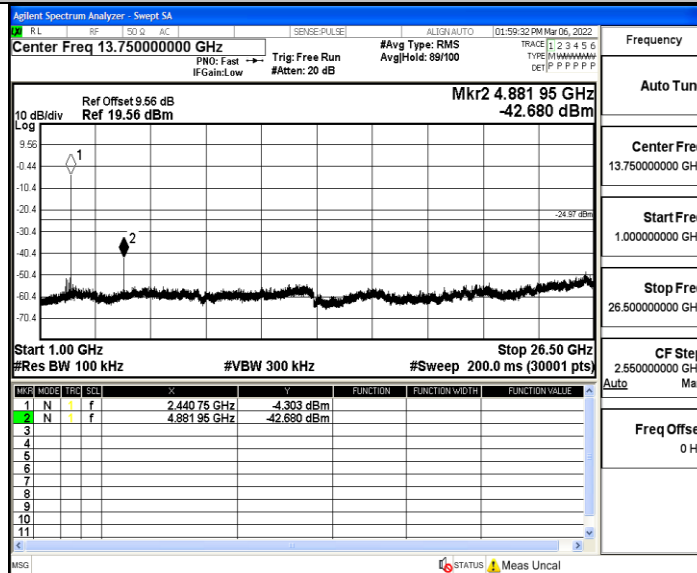
2DH5_Ant1_2441_0~Reference



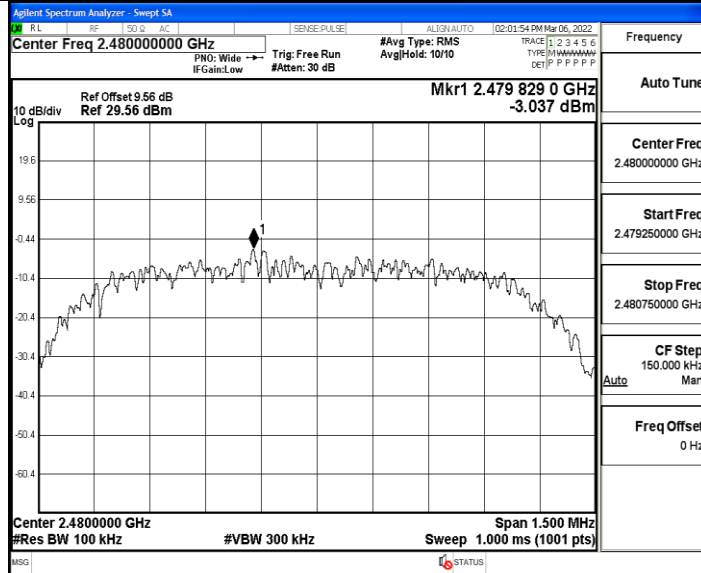
2DH5_Ant1_2441_30~1000



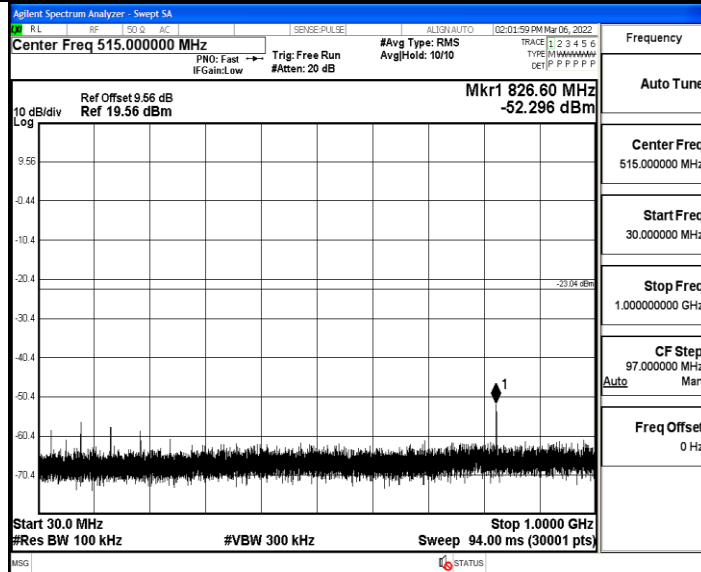
2DH5_Ant1_2441_1000~26500



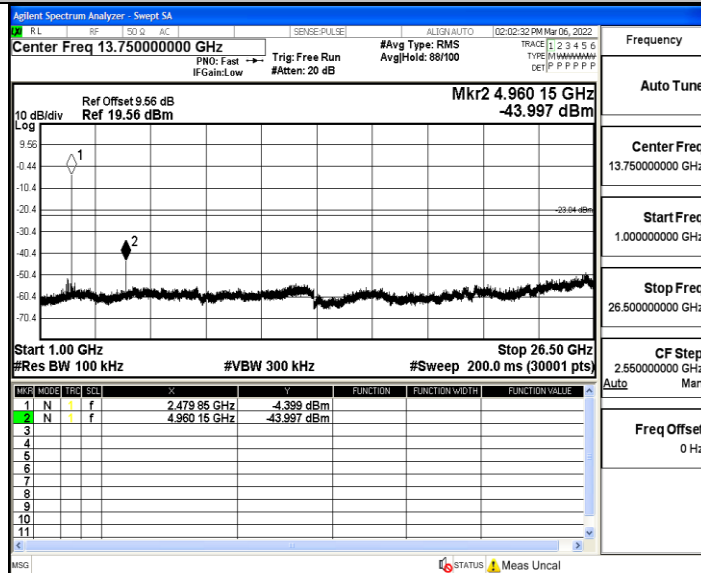
2DH5_Ant1_2480_0~Reference



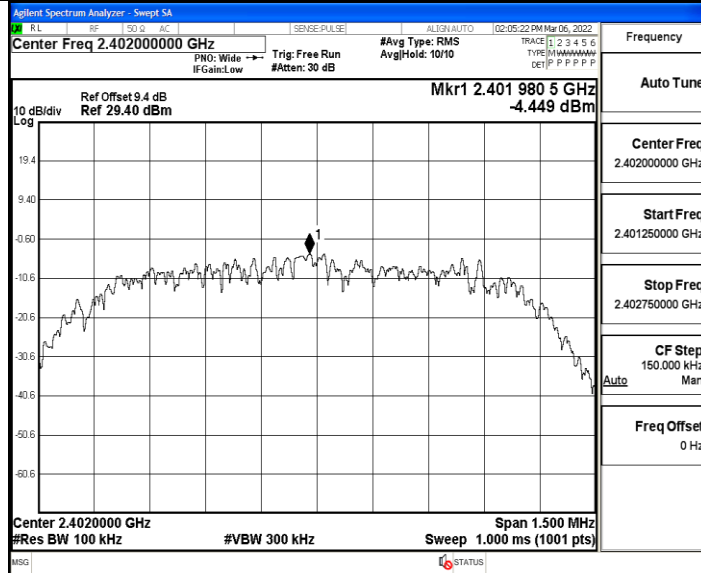
2DH5_Ant1_2480_30~1000



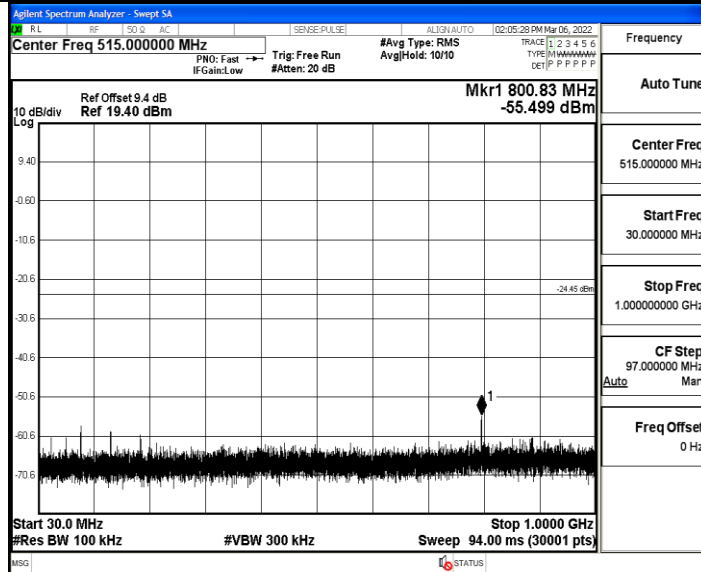
2DH5_Ant1_2480_1000~26500



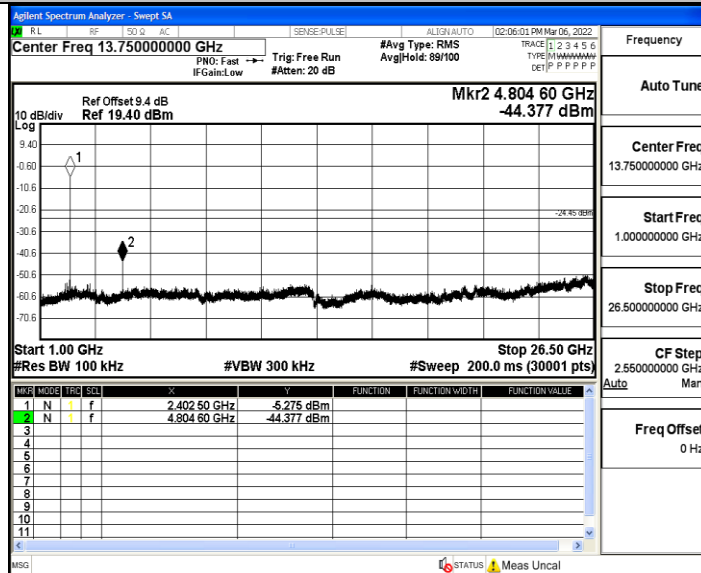
3DH5_Ant1_2402_0~Reference



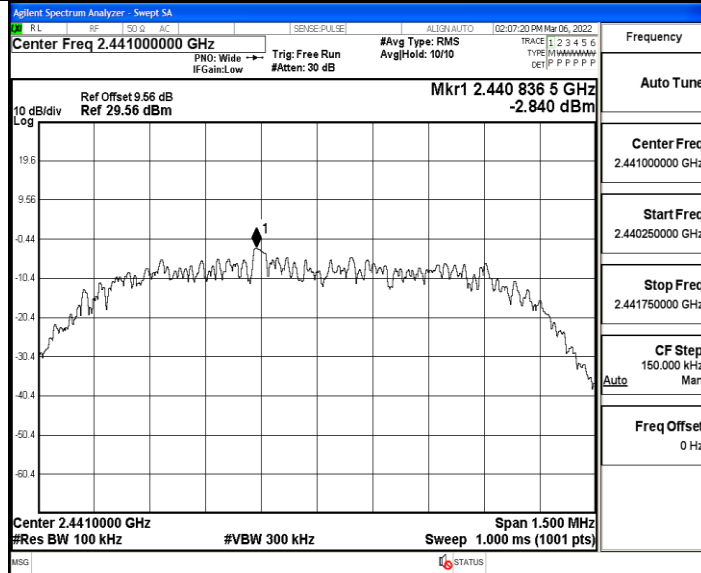
3DH5_Ant1_2402_30~1000



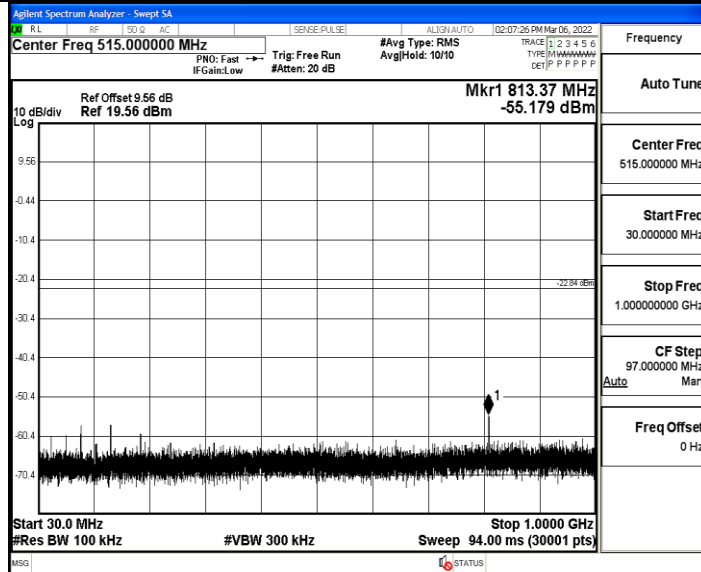
3DH5_Ant1_2402_1000~26500



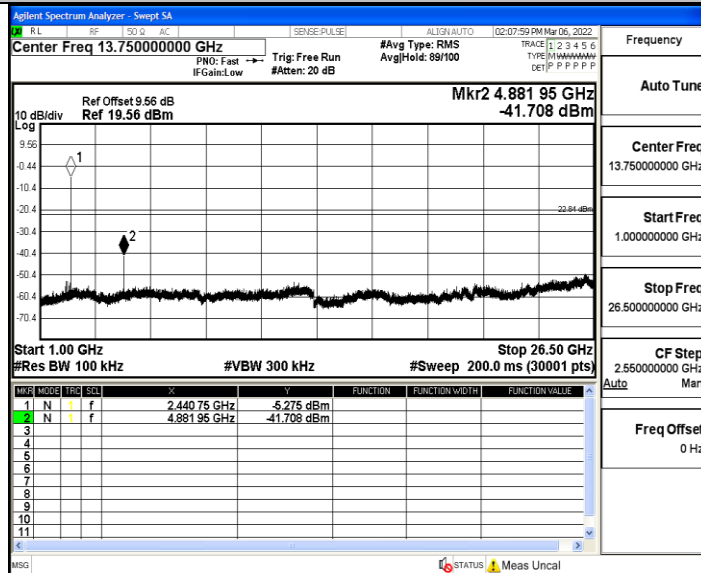
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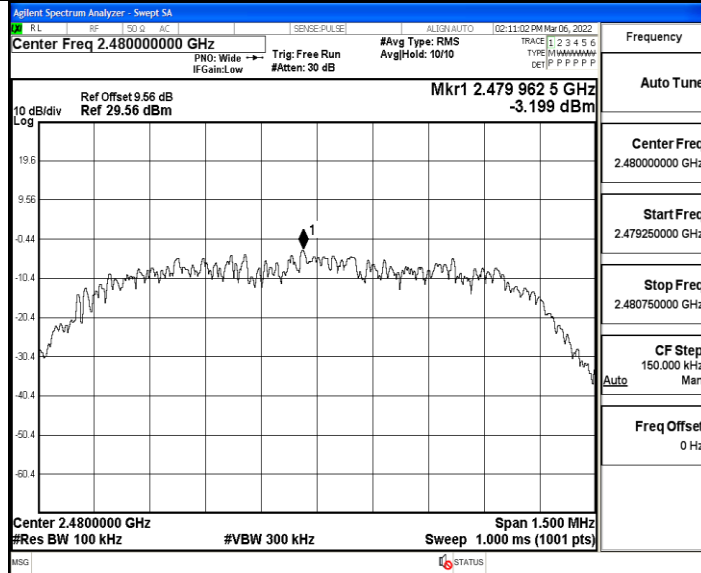
3DH5_Ant1_2441_30~1000



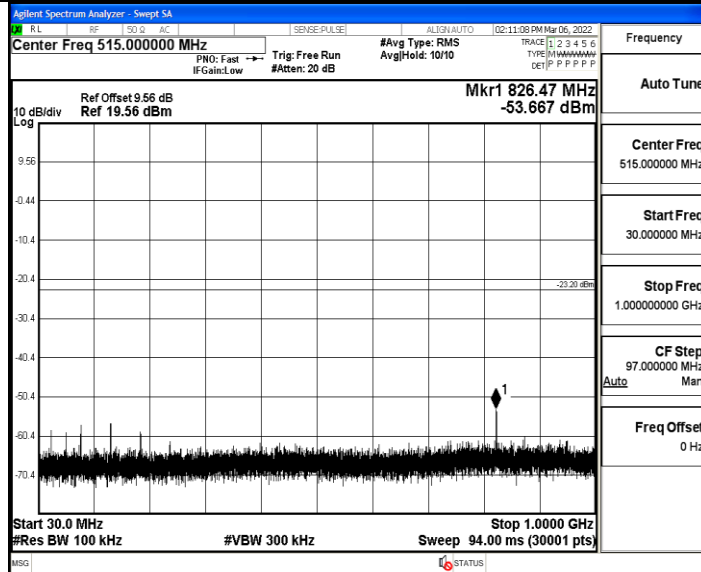
3DH5_Ant1_2441_1000~26500



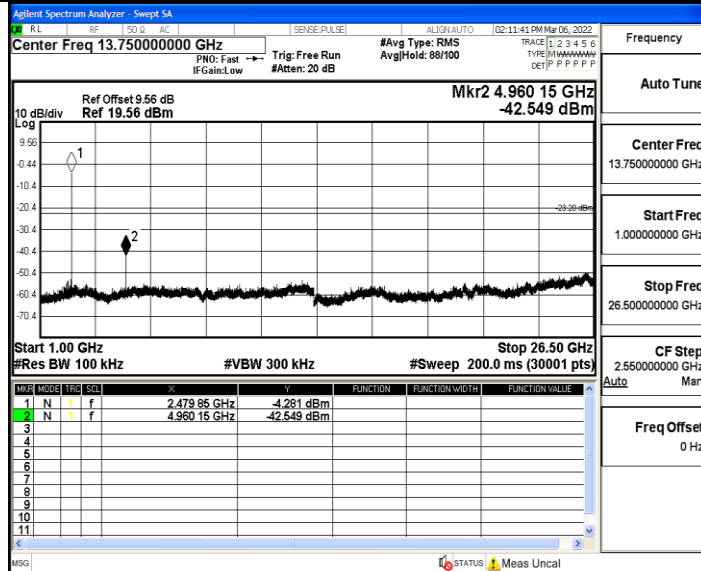
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

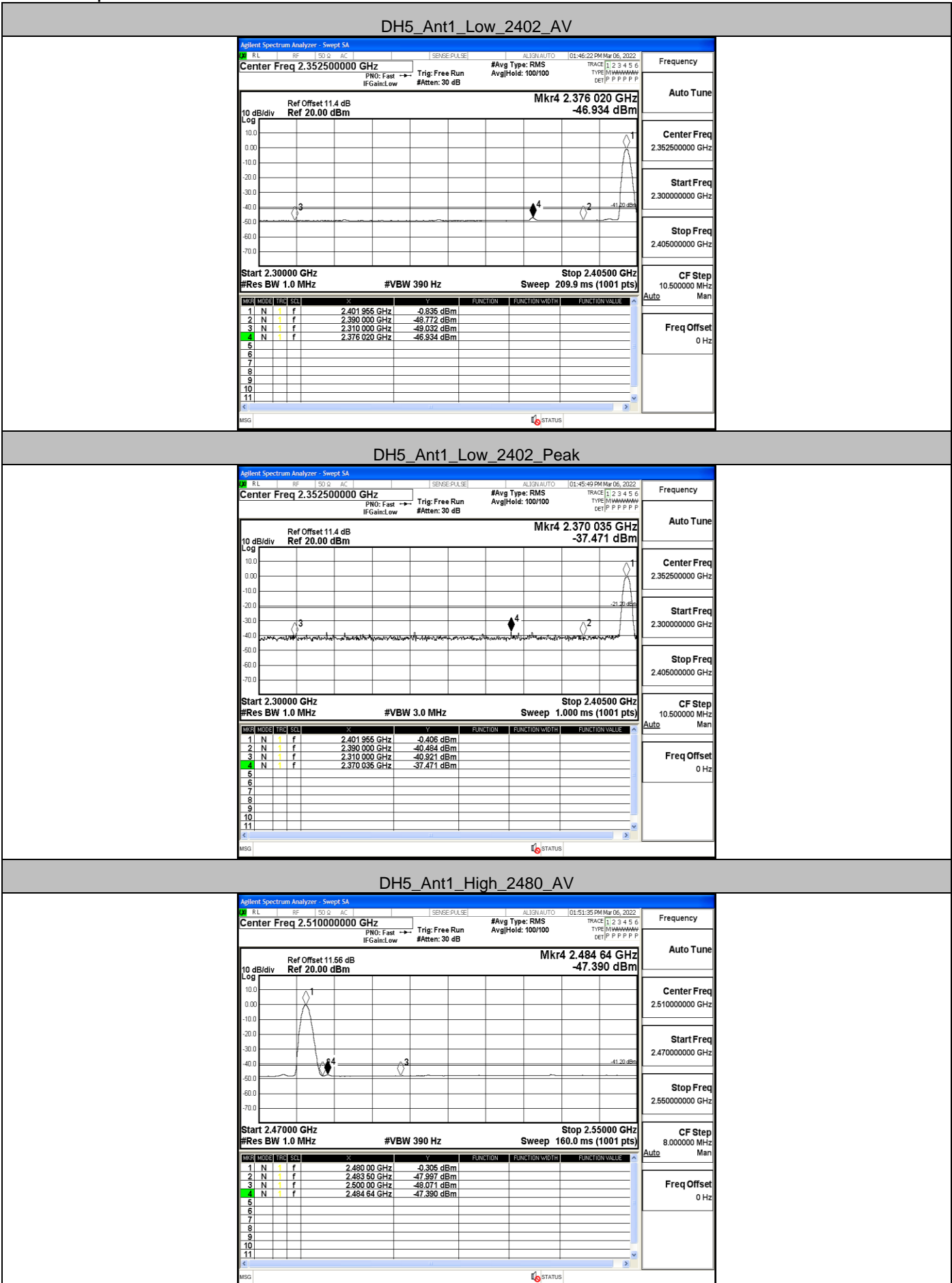


A.8 Restrict-band band-edge measurements

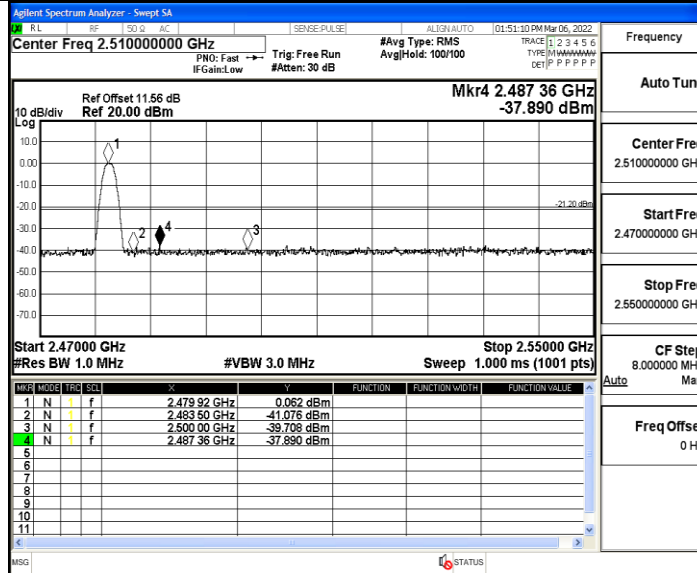
TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.03	≤-41.20	PASS
				AV	2376.020	-46.93	≤-41.20	PASS
				AV	2390.000	-48.77	≤-41.20	PASS
				Peak	2310.000	-40.92	≤-21.20	PASS
				Peak	2370.035	-37.47	≤-21.20	PASS
				Peak	2390.000	-40.48	≤-21.20	PASS
		High	2480	AV	2483.500	-48	≤-41.20	PASS
				AV	2484.640	-47.39	≤-41.20	PASS
				AV	2500.000	-48.07	≤-41.20	PASS
				Peak	2483.500	-41.08	≤-21.20	PASS
				Peak	2487.360	-37.89	≤-21.20	PASS
				Peak	2500.000	-39.71	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.01	≤-41.20	PASS
				AV	2376.125	-47.19	≤-41.20	PASS
				AV	2390.000	-48.72	≤-41.20	PASS
				Peak	2310.000	-42.44	≤-21.20	PASS
				Peak	2376.020	-38.6	≤-21.20	PASS
				Peak	2390.000	-42.29	≤-21.20	PASS
		High	2480	AV	2483.500	-47.75	≤-41.20	PASS
				AV	2484.480	-47.42	≤-41.20	PASS
				AV	2500.000	-48.06	≤-41.20	PASS
				Peak	2483.500	-41.51	≤-21.20	PASS
				Peak	2498.800	-38.75	≤-21.20	PASS
				Peak	2500.000	-42.07	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.05	≤-41.20	PASS
				AV	2375.810	-47.28	≤-41.20	PASS
				AV	2390.000	-48.77	≤-41.20	PASS
				Peak	2310.000	-40.98	≤-21.20	PASS
				Peak	2378.120	-38.04	≤-21.20	PASS
				Peak	2390.000	-41.19	≤-21.20	PASS
		High	2480	AV	2483.500	-47.78	≤-41.20	PASS
				AV	2484.640	-47.4	≤-41.20	PASS
				AV	2500.000	-48.09	≤-41.20	PASS
				Peak	2483.500	-40.83	≤-21.20	PASS
				Peak	2492.560	-38.5	≤-21.20	PASS
				Peak	2500.000	-41.55	≤-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

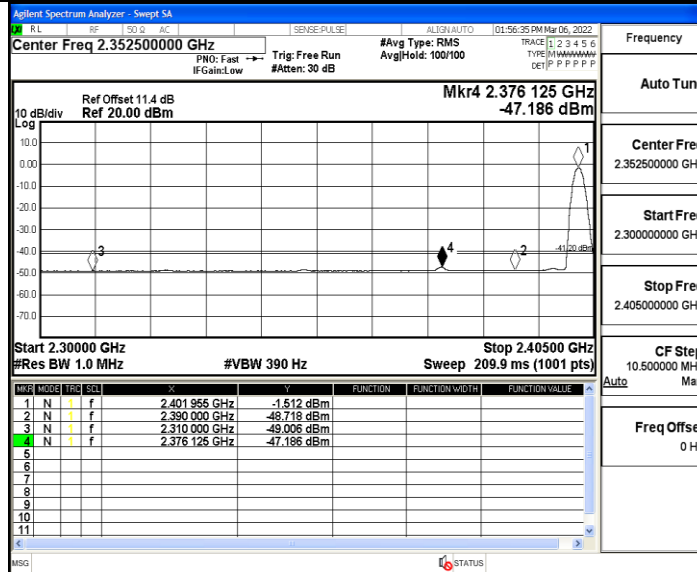


DH5_Ant1_High_2480_Peak



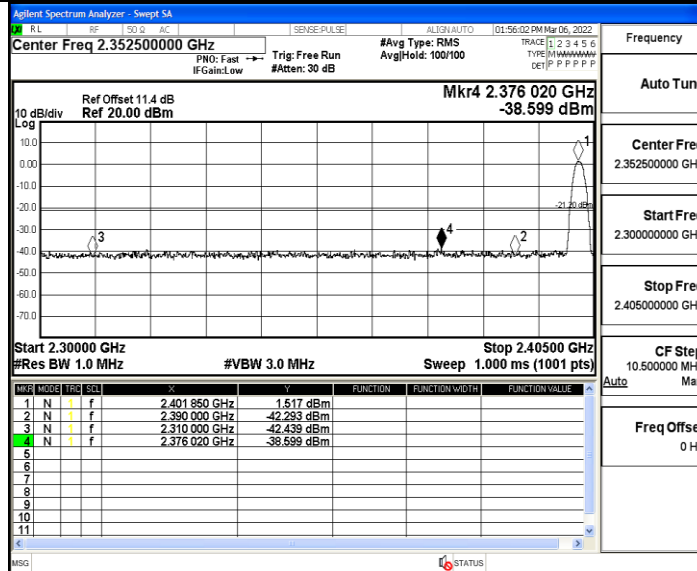
Frequency	Auto Tune
Center Freq	2.510000000 GHz
Start Freq	2.470000000 GHz
Stop Freq	2.550000000 GHz
CF Step	8.000000 MHz
Freq Offset	0 Hz

2DH5_Ant1_Low_2402_AV



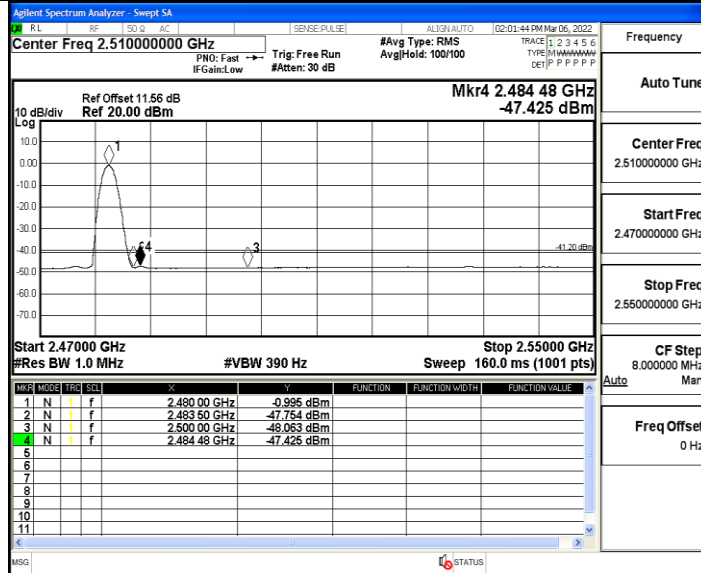
Frequency	Auto Tune
Center Freq	2.352500000 GHz
Start Freq	2.300000000 GHz
Stop Freq	2.405000000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

2DH5_Ant1_Low_2402_Peak

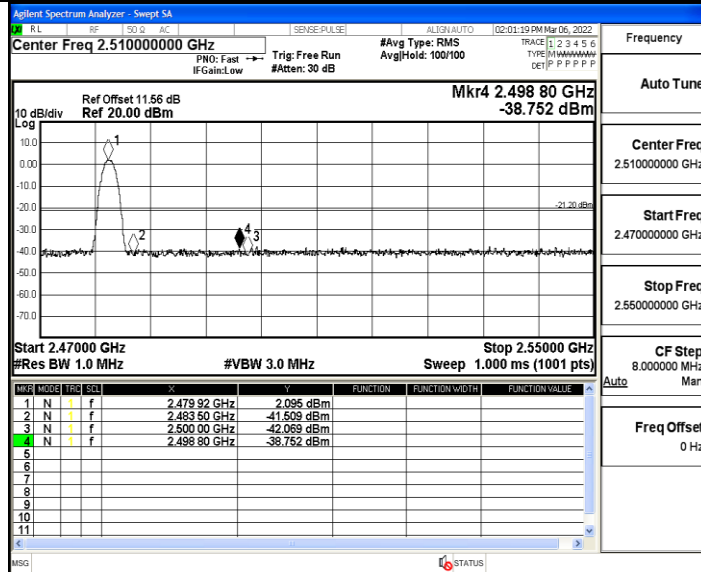


Frequency	Auto Tune
Center Freq	2.352500000 GHz
Start Freq	2.300000000 GHz
Stop Freq	2.405000000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

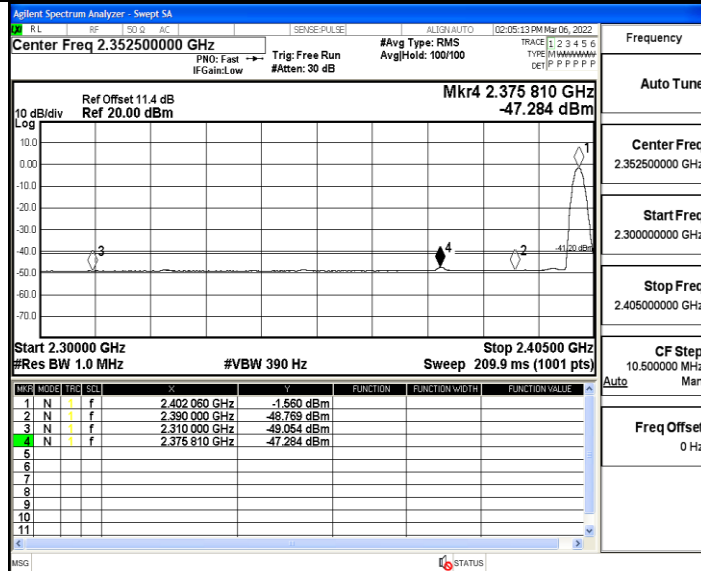
2DH5_Ant1_High_2480_AV



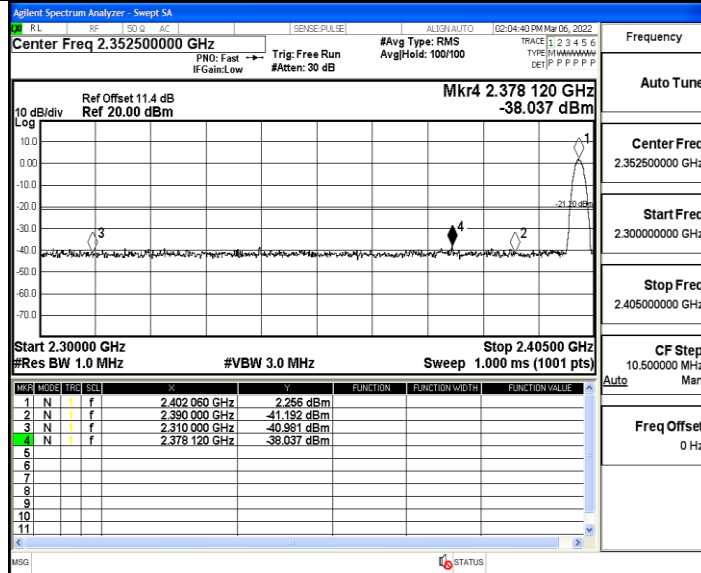
2DH5_Ant1_High_2480_Peak



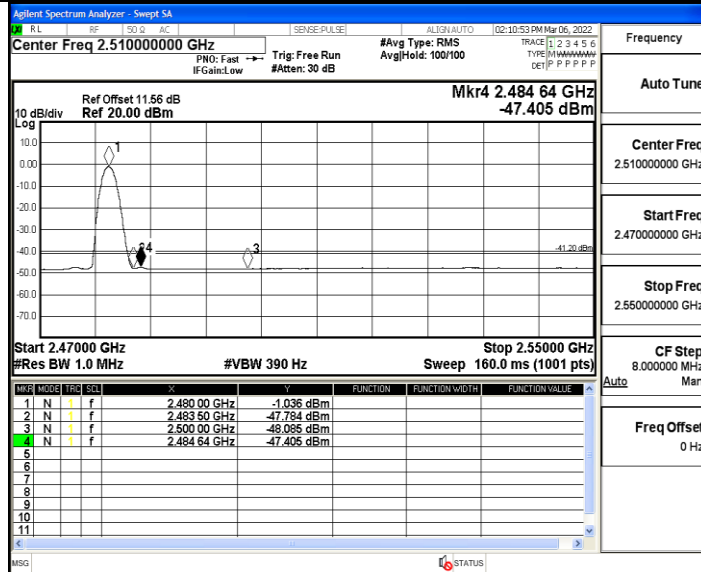
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

