



## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: EarphoneBluetooth

Test Model: BluePods 104

#### Environmental Conditions

Temperature:	21.1 °C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Huan Li



## A.1 20dB Emission Bandwidth

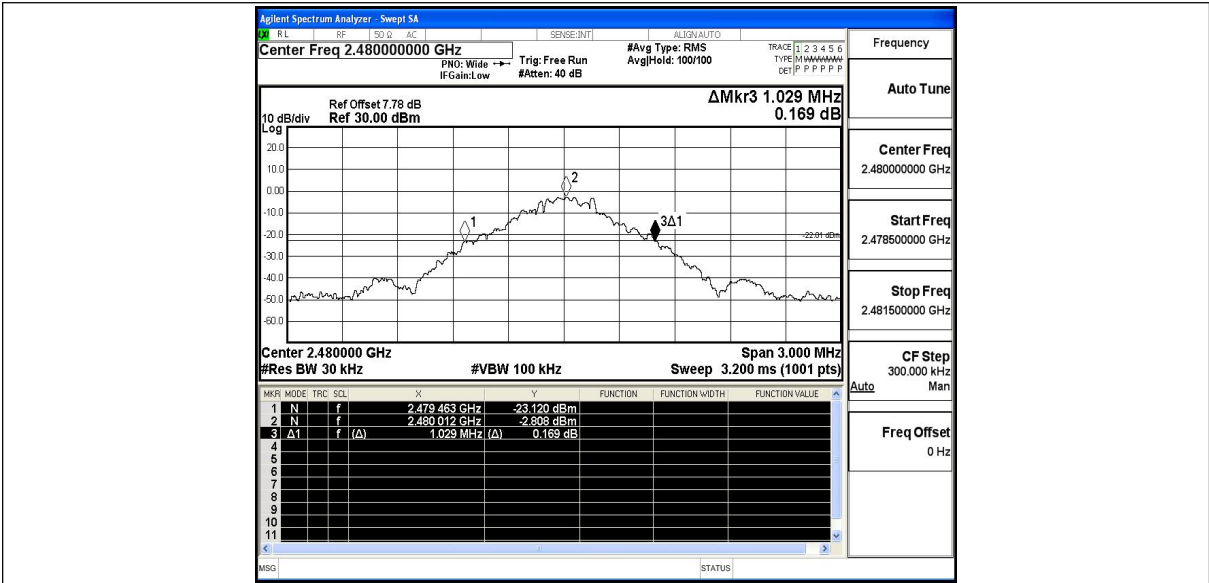
### Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.038	2401.463	2402.501	---	PASS
		2441	0.969	2440.532	2441.501	---	PASS
		2480	1.029	2479.463	2480.492	---	PASS
2DH5	Ant1	2402	1.317	2401.340	2402.657	---	PASS
		2441	1.314	2440.349	2441.663	---	PASS
		2480	1.317	2479.340	2480.657	---	PASS
3DH5	Ant1	2402	1.350	2401.325	2402.675	---	PASS
		2441	1.275	2440.352	2441.627	---	PASS
		2480	1.314	2479.343	2480.657	---	PASS

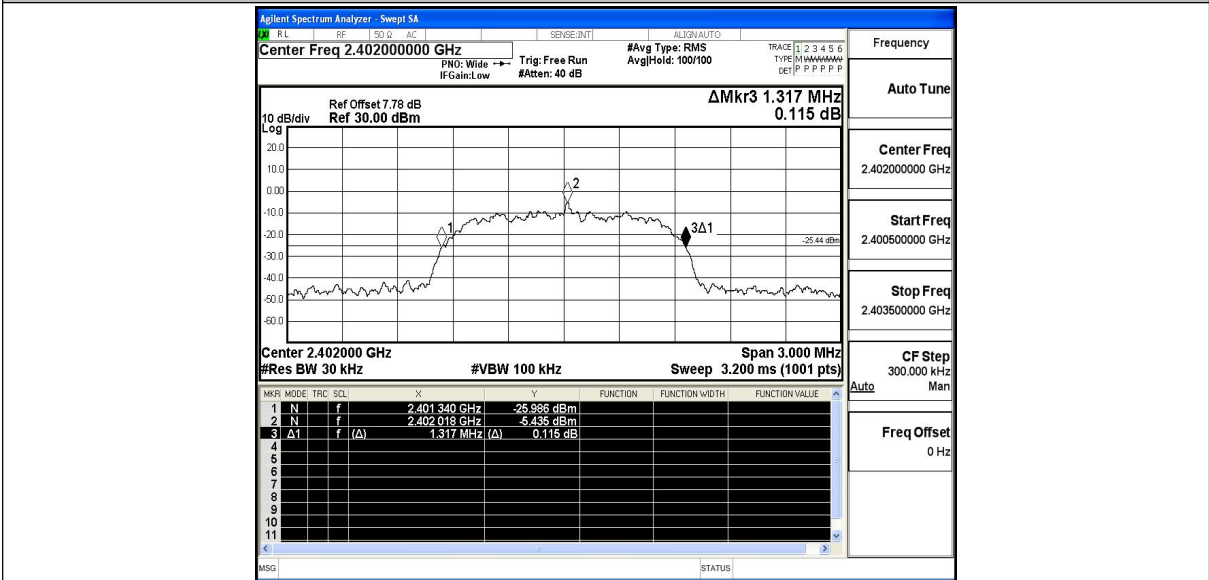


### Test Graphs

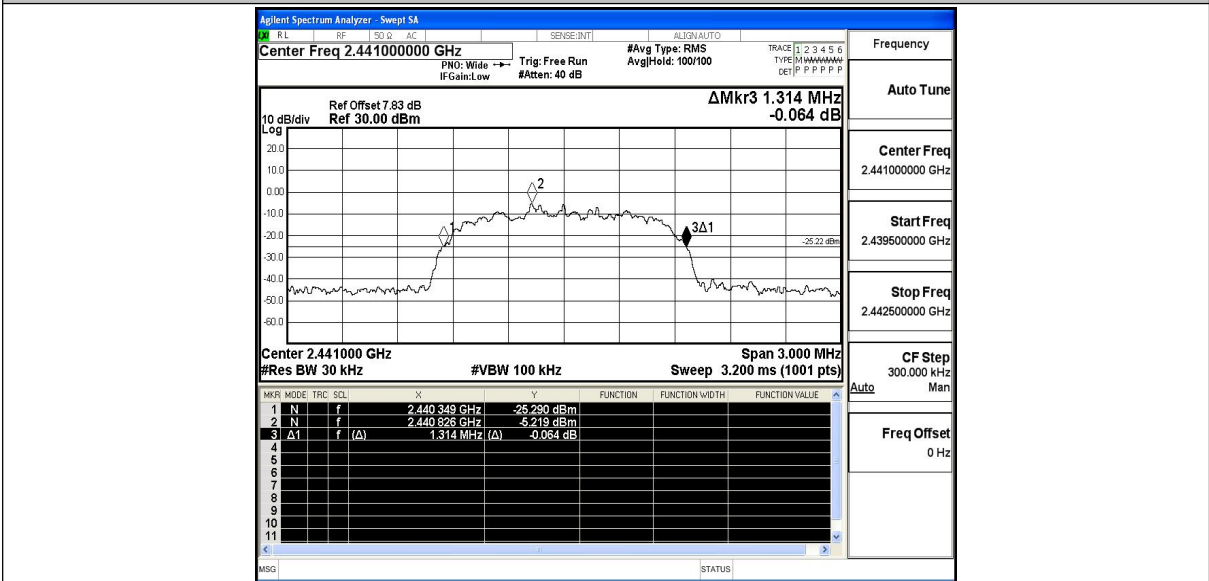




2DH5\_Ant1\_2402

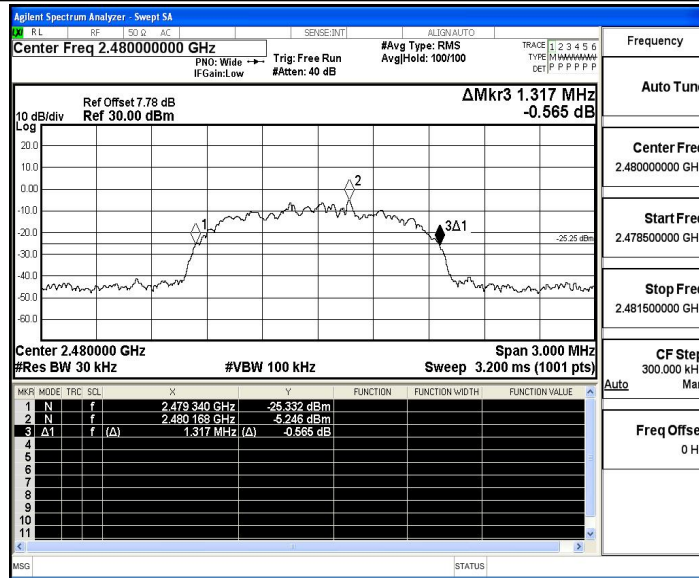


2DH5\_Ant1\_2441

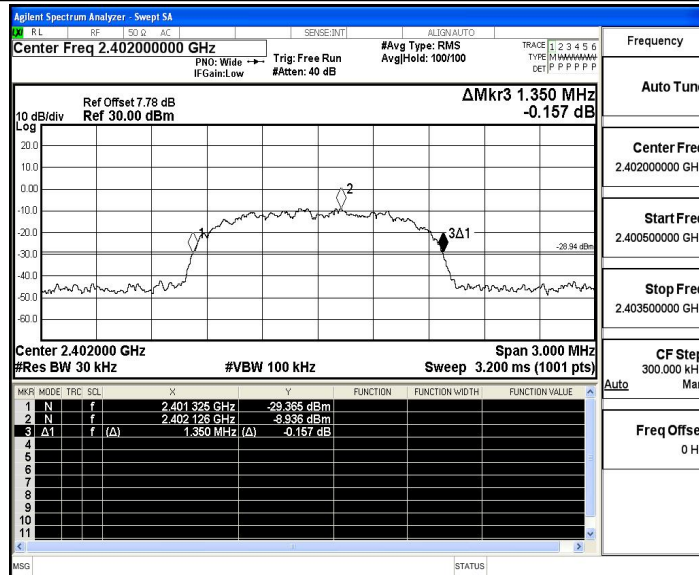




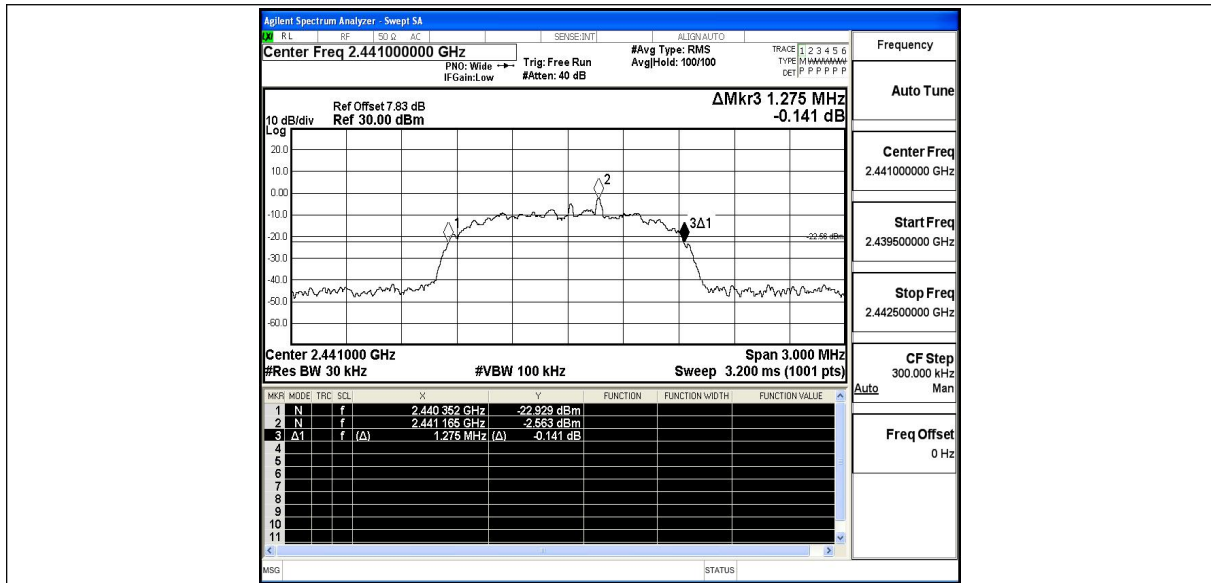
2DH5\_Ant1\_2480



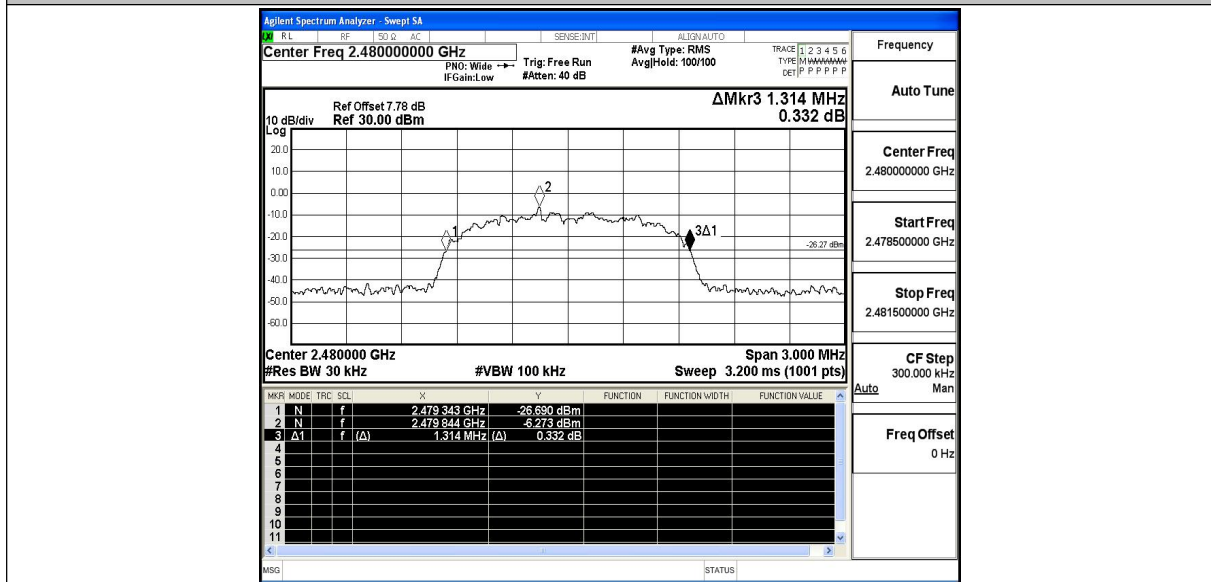
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480





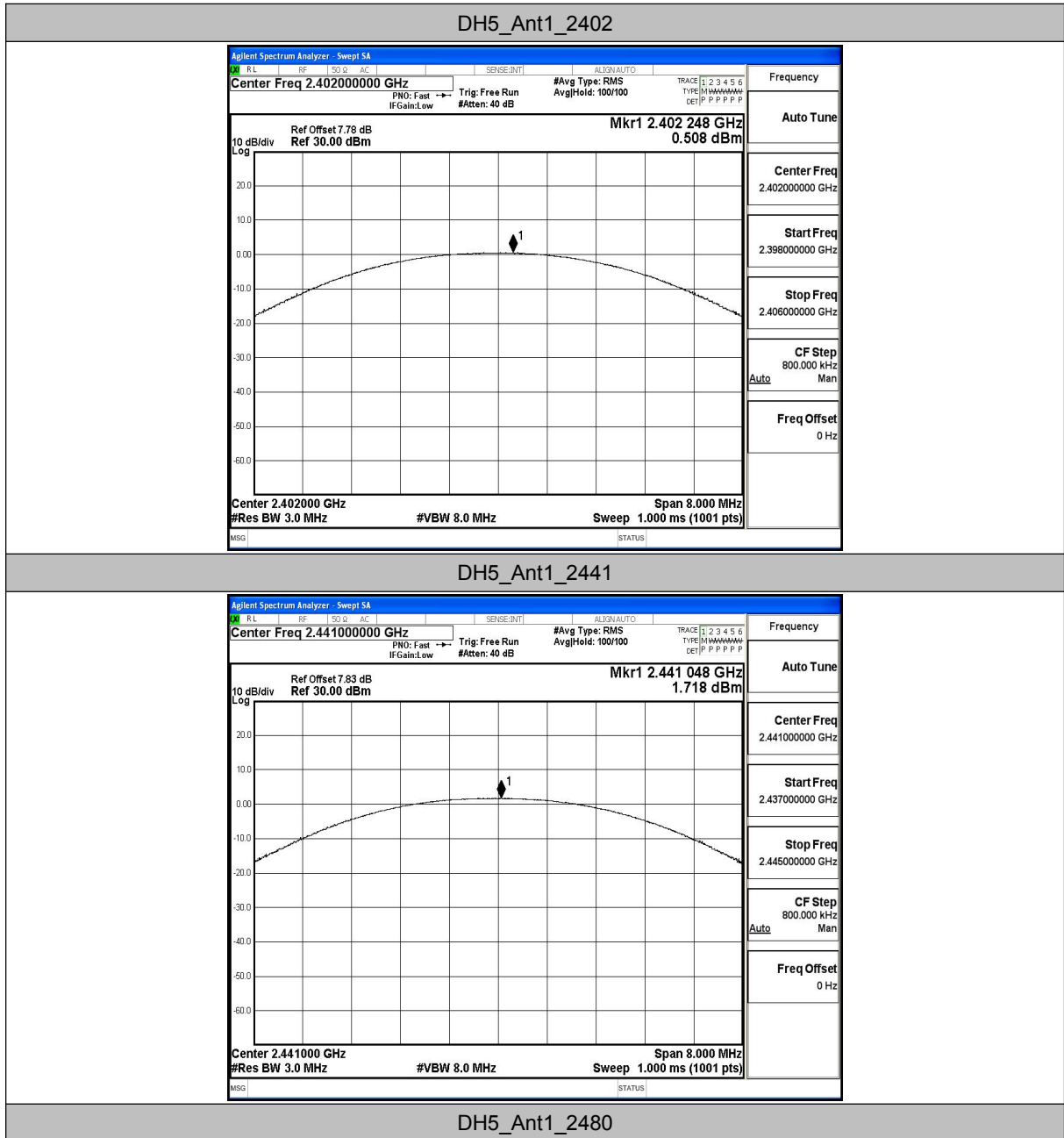
## A.2 Maximum conducted output power

### Test Result

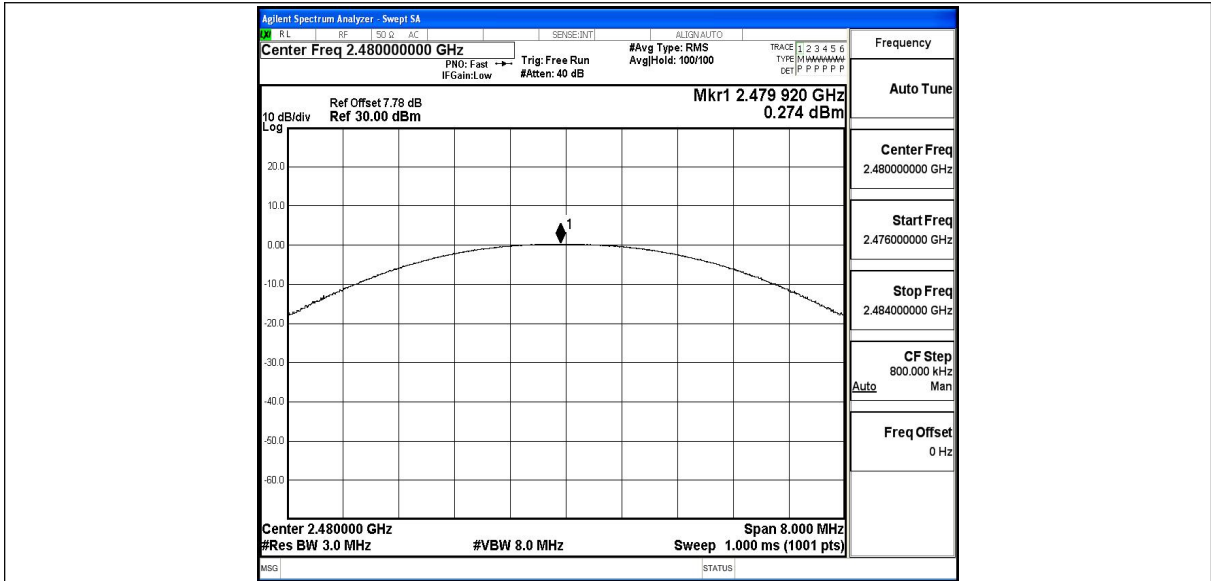
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.51	≤20.97	PASS
		2441	1.72	≤20.97	PASS
		2480	0.27	≤20.97	PASS
2DH5	Ant1	2402	-0.41	≤20.97	PASS
		2441	0.81	≤20.97	PASS
		2480	-0.49	≤20.97	PASS
3DH5	Ant1	2402	-0.25	≤20.97	PASS
		2441	0.95	≤20.97	PASS
		2480	-0.48	≤20.97	PASS



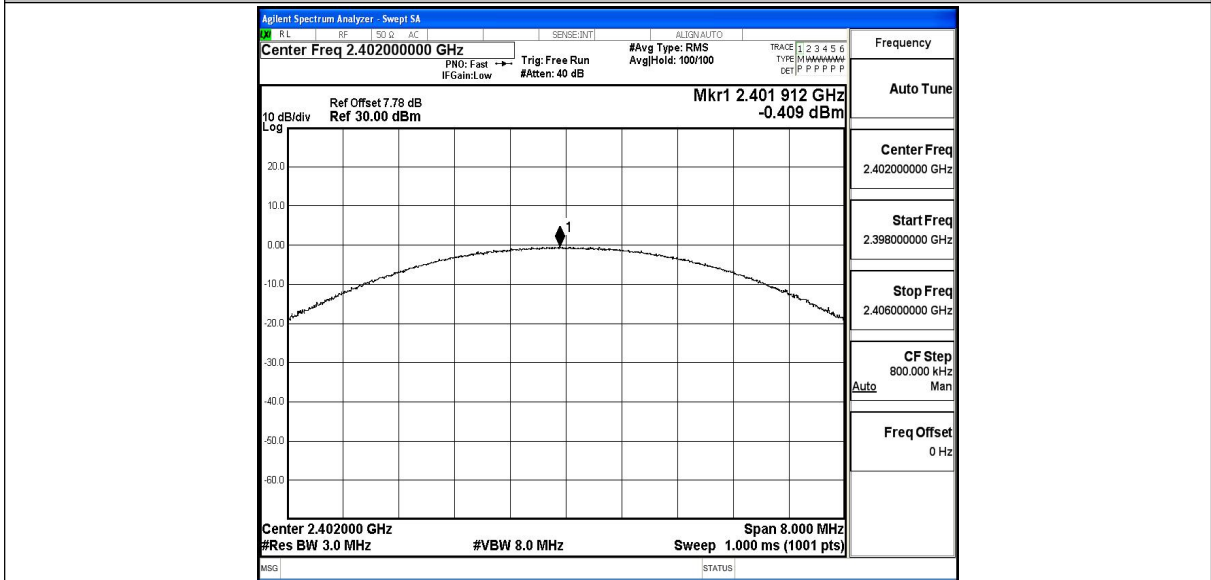
### Test Graphs



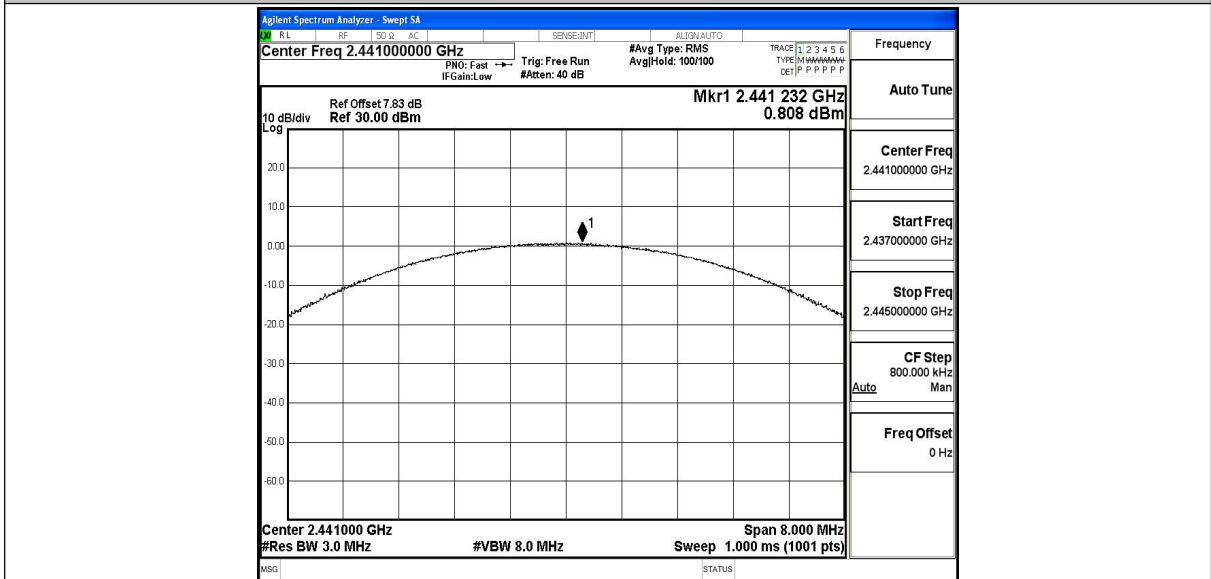




2DH5\_Ant1\_2402

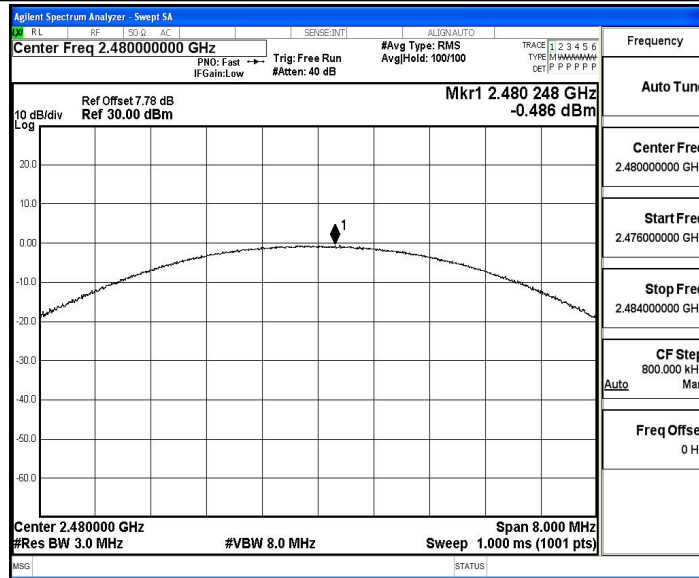


2DH5\_Ant1\_2441

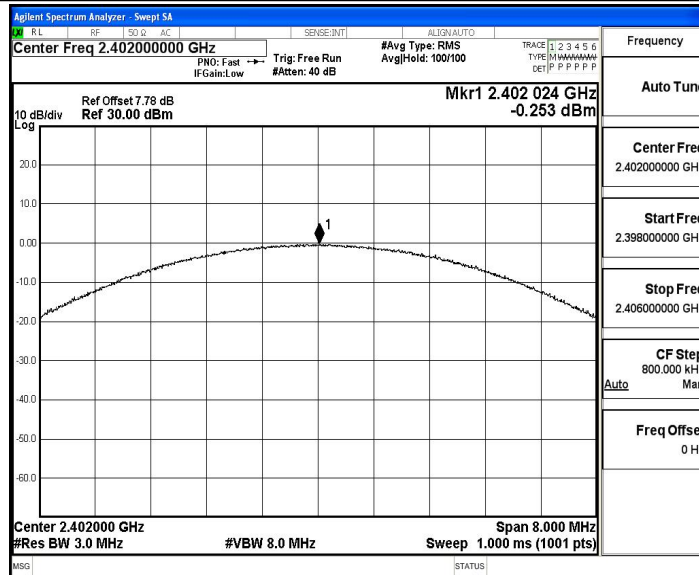




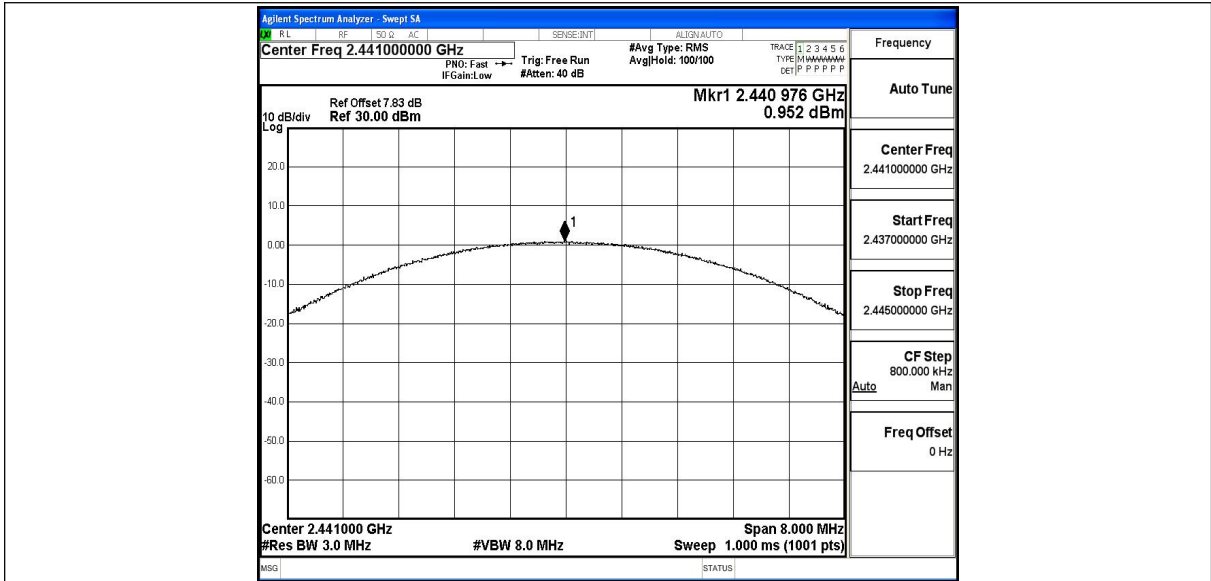
### 2DH5\_Ant1\_2480



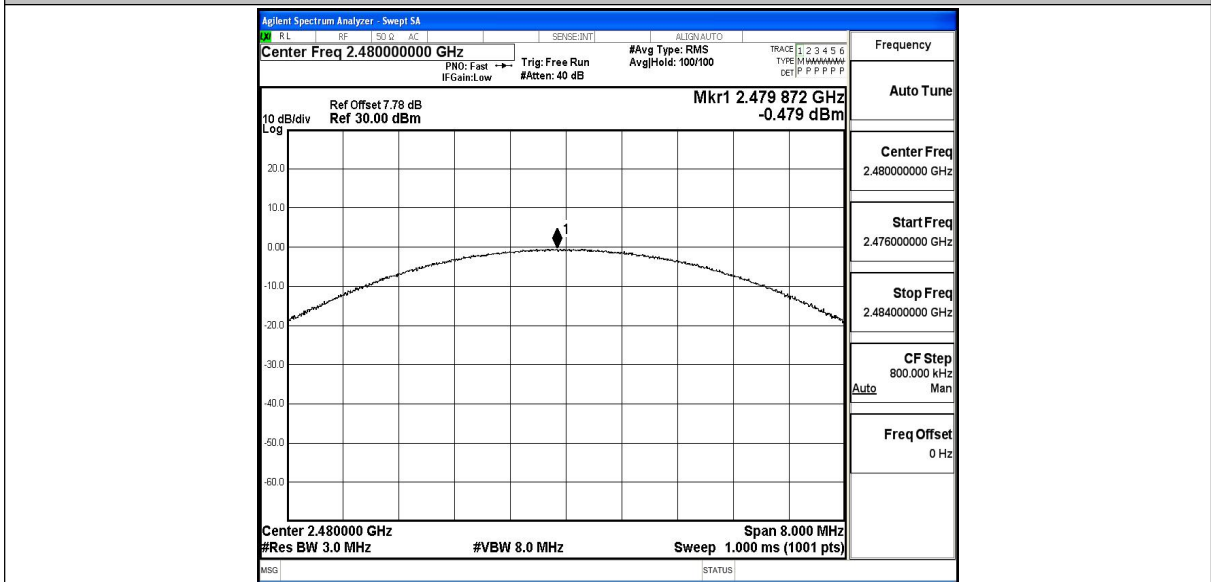
### 3DH5\_Ant1\_2402



### 3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



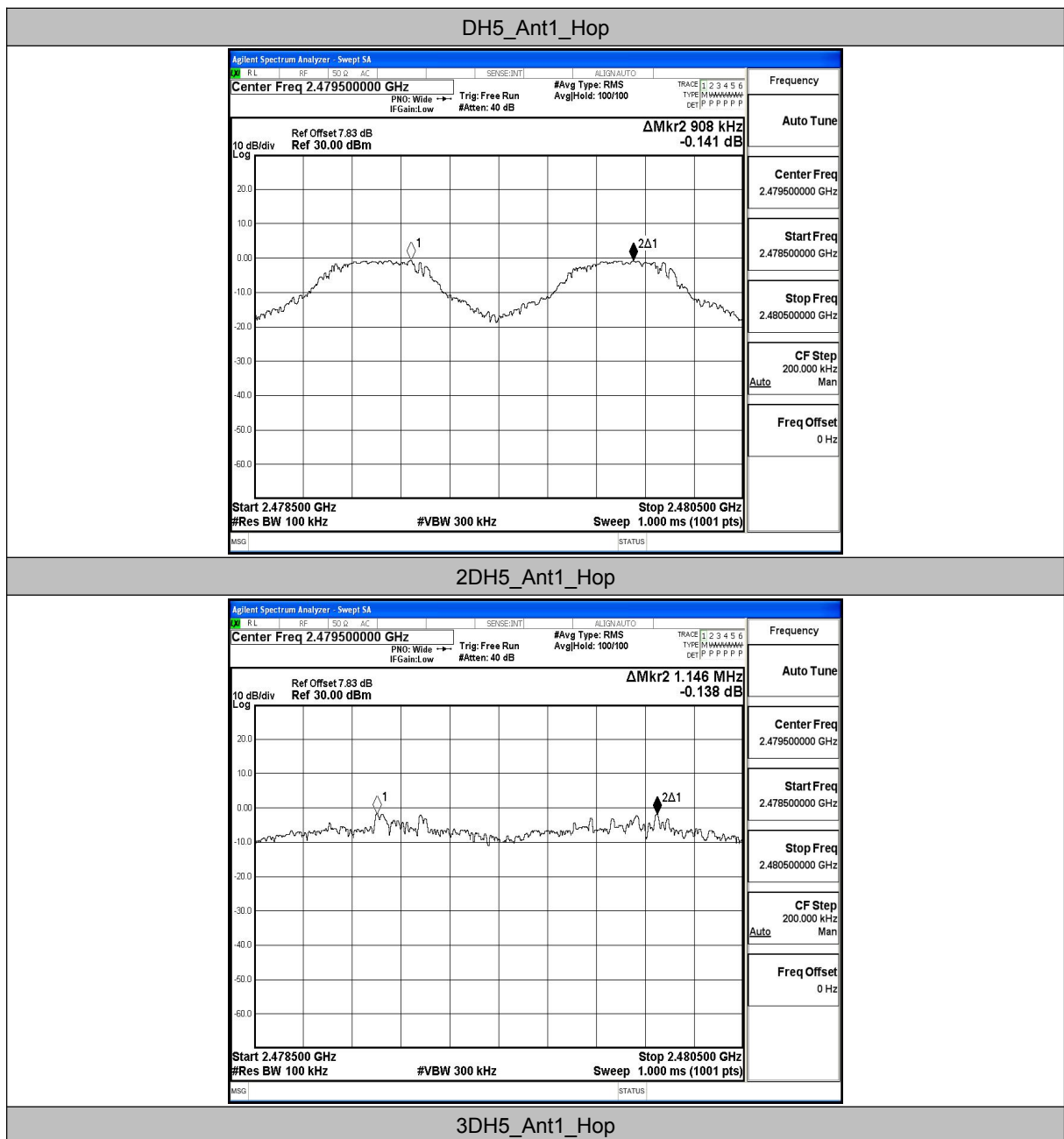


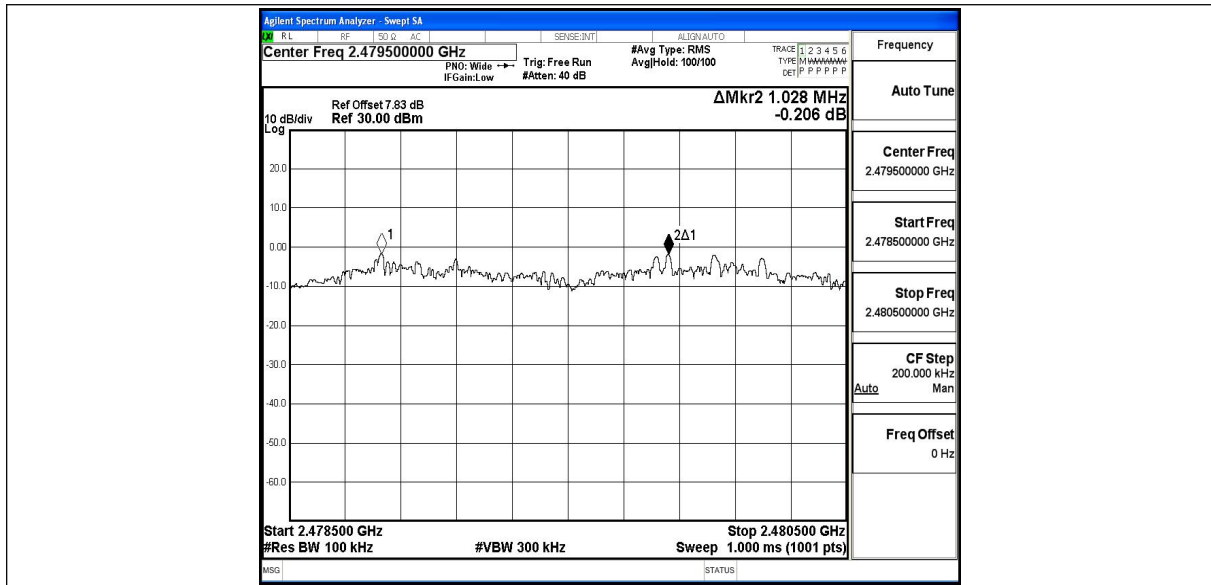
### A.3 Carrier frequency separation

#### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.908	≥0.692	PASS
2DH5	Ant1	Hop	1.146	≥0.878	PASS
3DH5	Ant1	Hop	1.028	≥0.900	PASS

#### Test Graphs





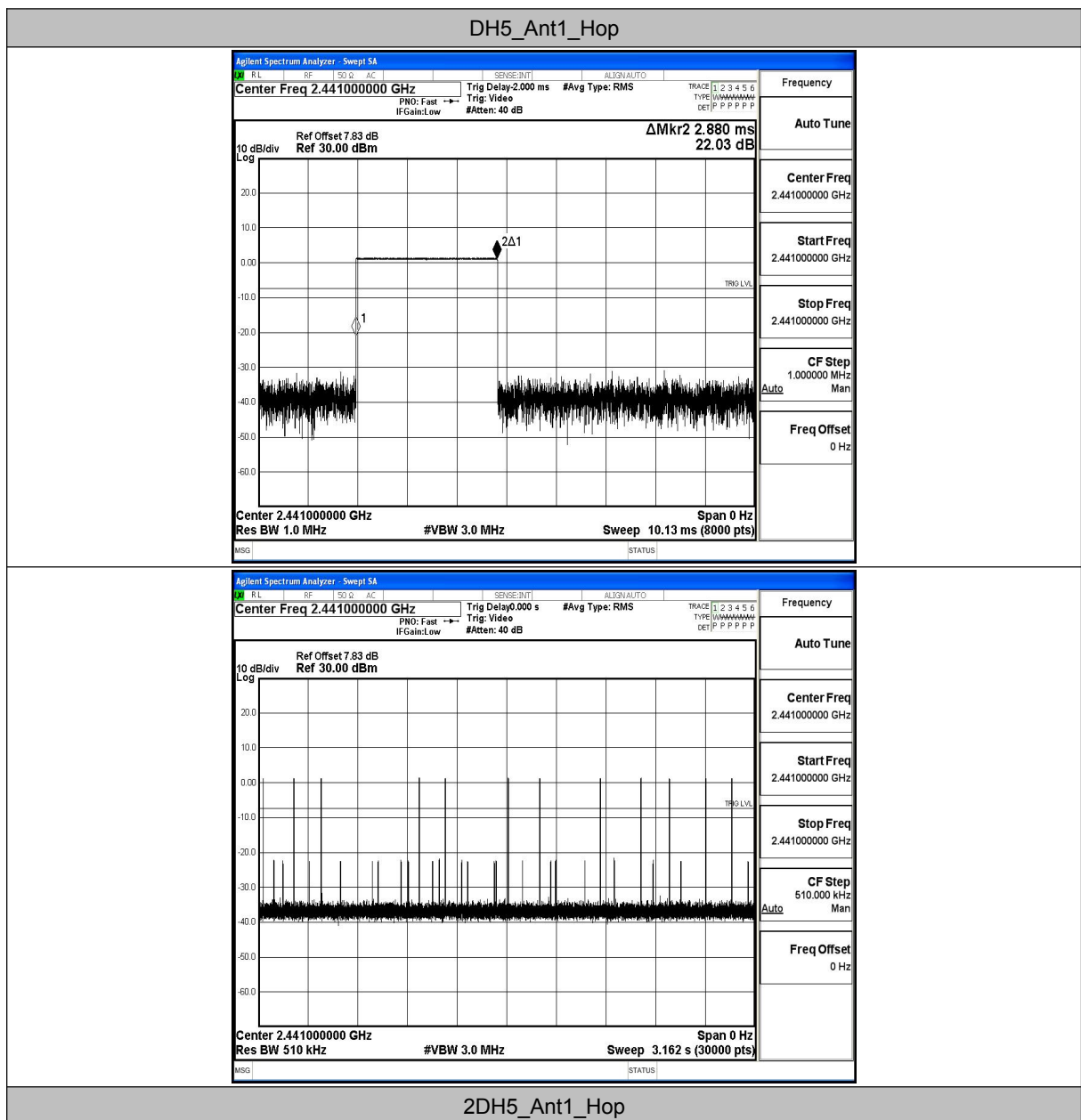


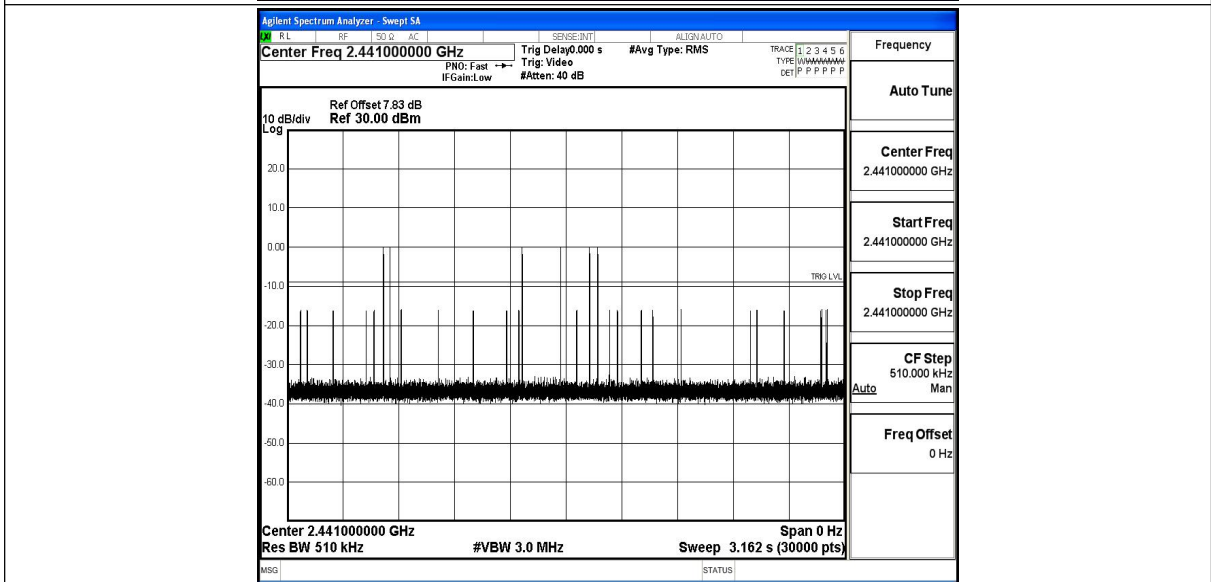
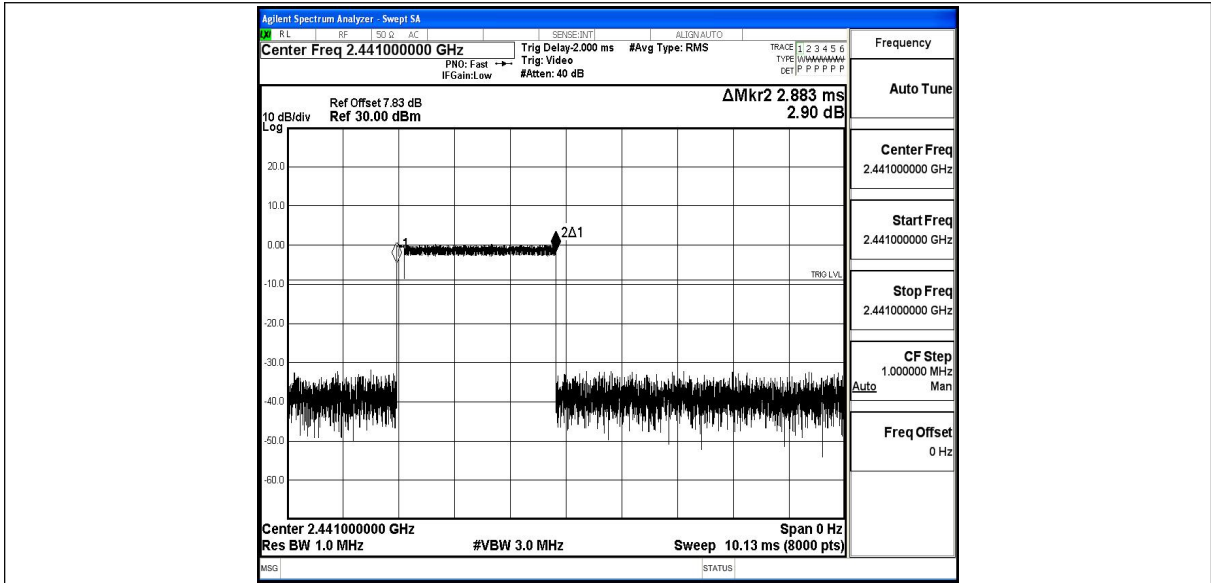
## A.4 Time of occupancy

### Test Result

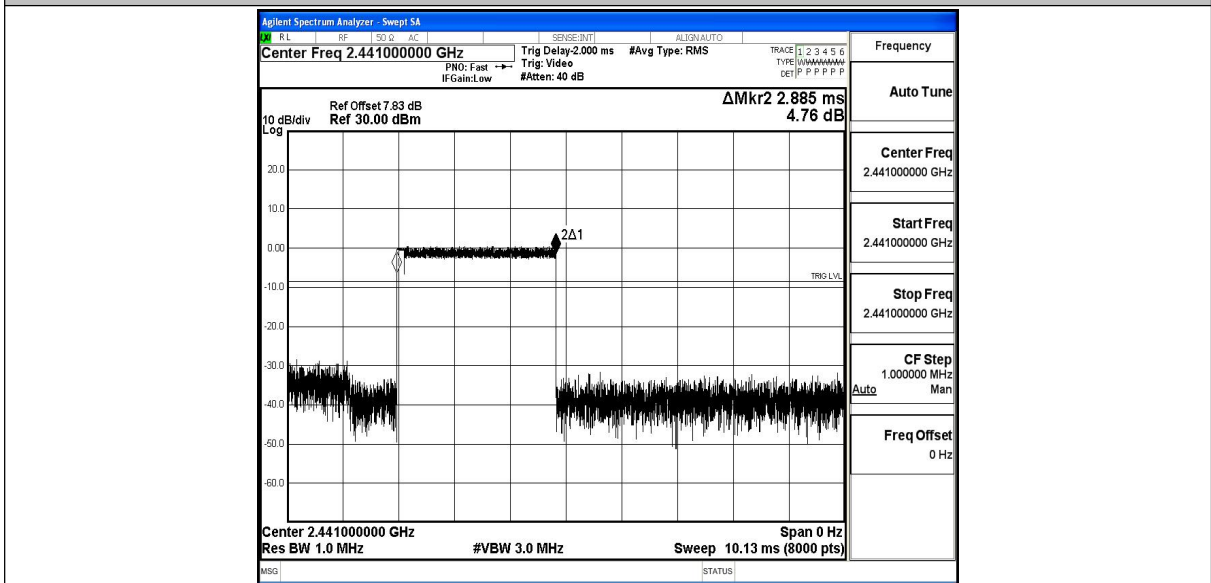
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	130	0.374	≤0.4	PASS
2DH5	Ant1	Hop	2.88	70	0.202	≤0.4	PASS
3DH5	Ant1	Hop	2.89	110	0.317	≤0.4	PASS

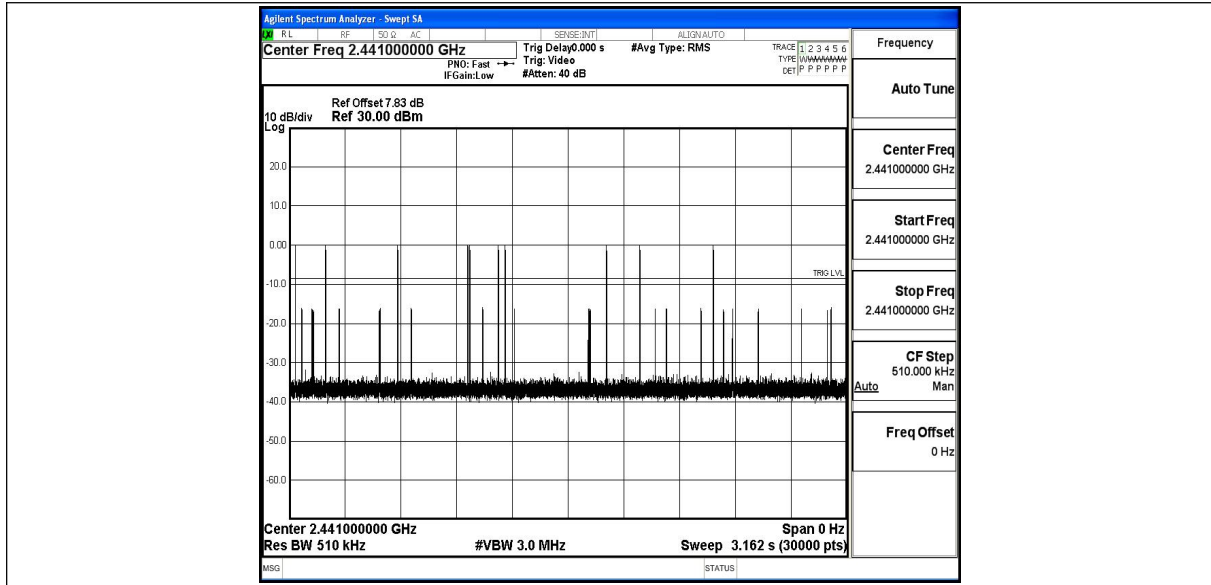
### Test Graphs





3DH5\_Ant1\_Hop







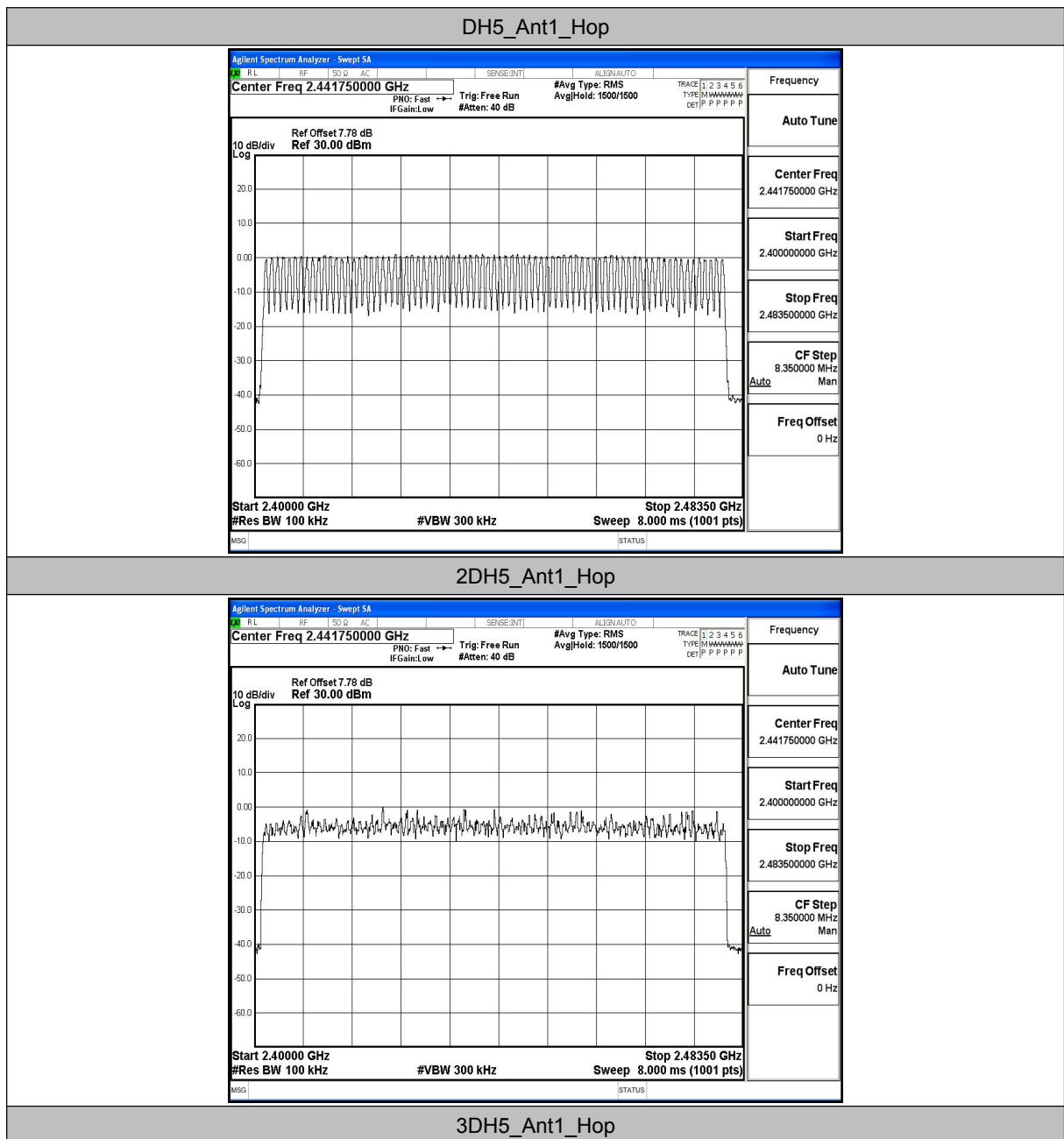


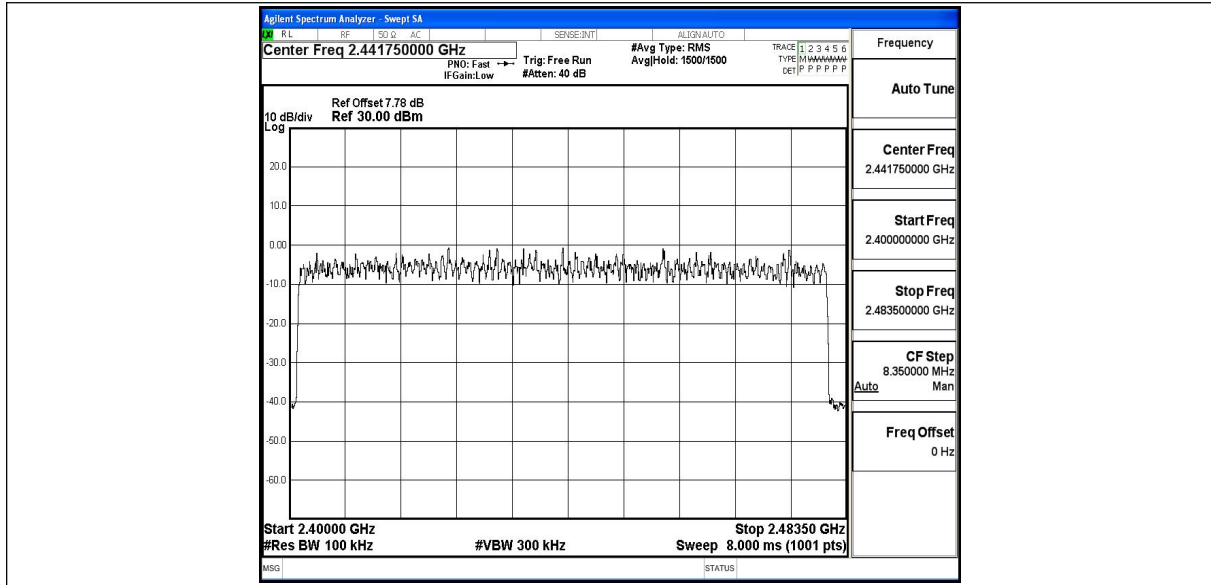
## A.5 Number of hopping channels

### 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







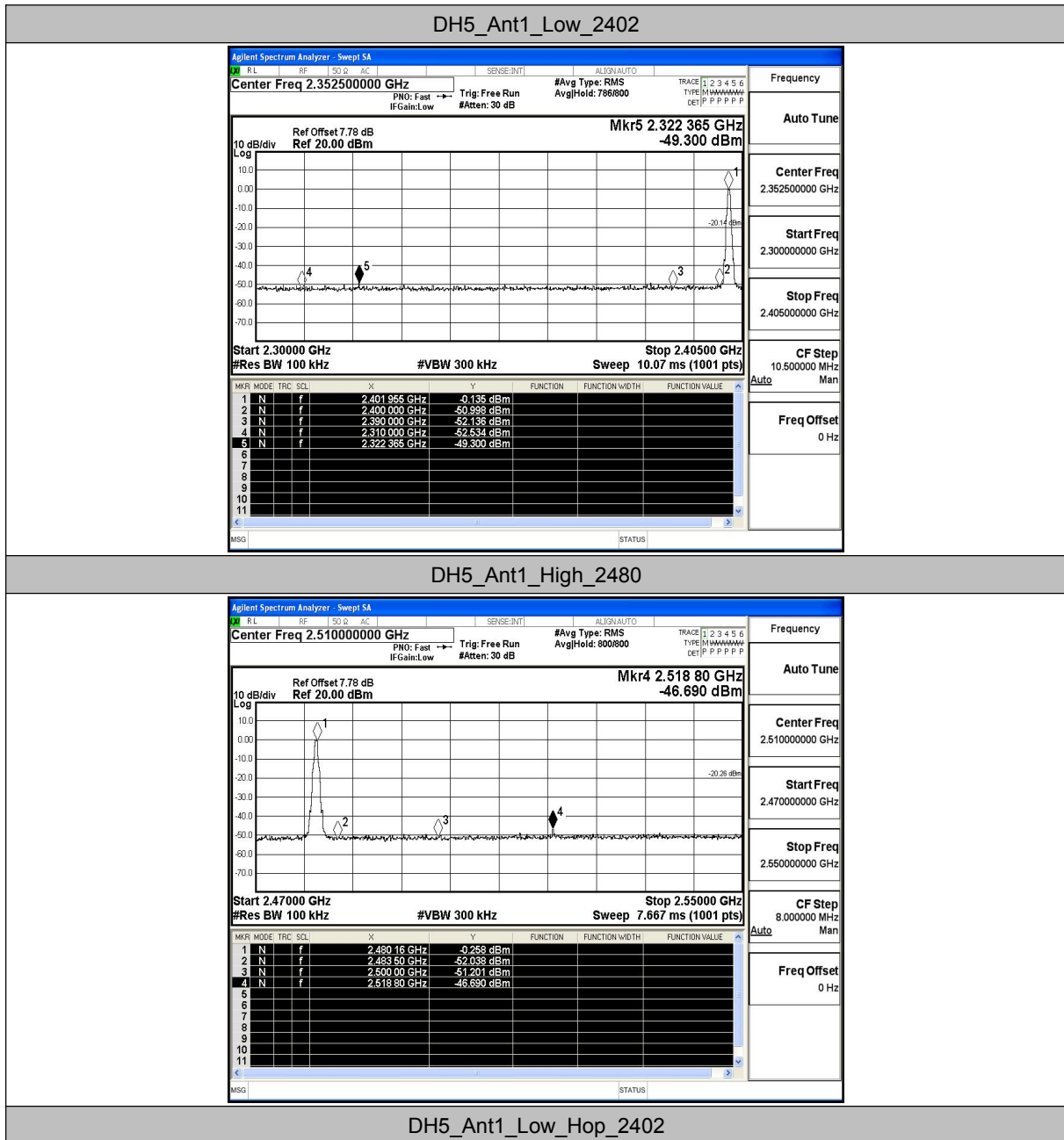
## A.6 Band edge measurements

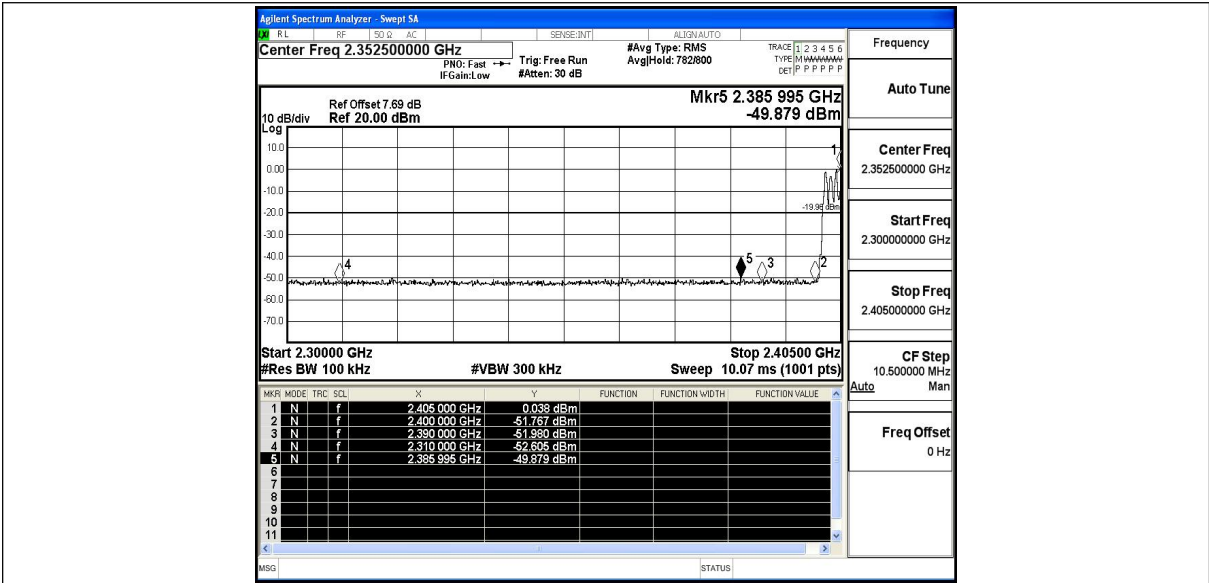
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.14	-49.3	$\leq -20.14$	PASS
		High	2480	-0.26	-46.69	$\leq -20.26$	PASS
		Low	Hop_2402	0.04	-49.88	$\leq -19.96$	PASS
		High	Hop_2480	-0.20	-48.45	$\leq -20.2$	PASS
2DH5	Ant1	Low	2402	-3.27	-49.04	$\leq -23.27$	PASS
		High	2480	-1.62	-48.92	$\leq -21.62$	PASS
		Low	Hop_2402	-5.08	-49.9	$\leq -25.08$	PASS
		High	Hop_2480	-2.64	-48.49	$\leq -22.64$	PASS
3DH5	Ant1	Low	2402	-1.51	-48.88	$\leq -21.51$	PASS
		High	2480	-1.69	-48.42	$\leq -21.69$	PASS
		Low	Hop_2402	-2.95	-49.83	$\leq -22.95$	PASS
		High	Hop_2480	-4.29	-48.72	$\leq -24.29$	PASS

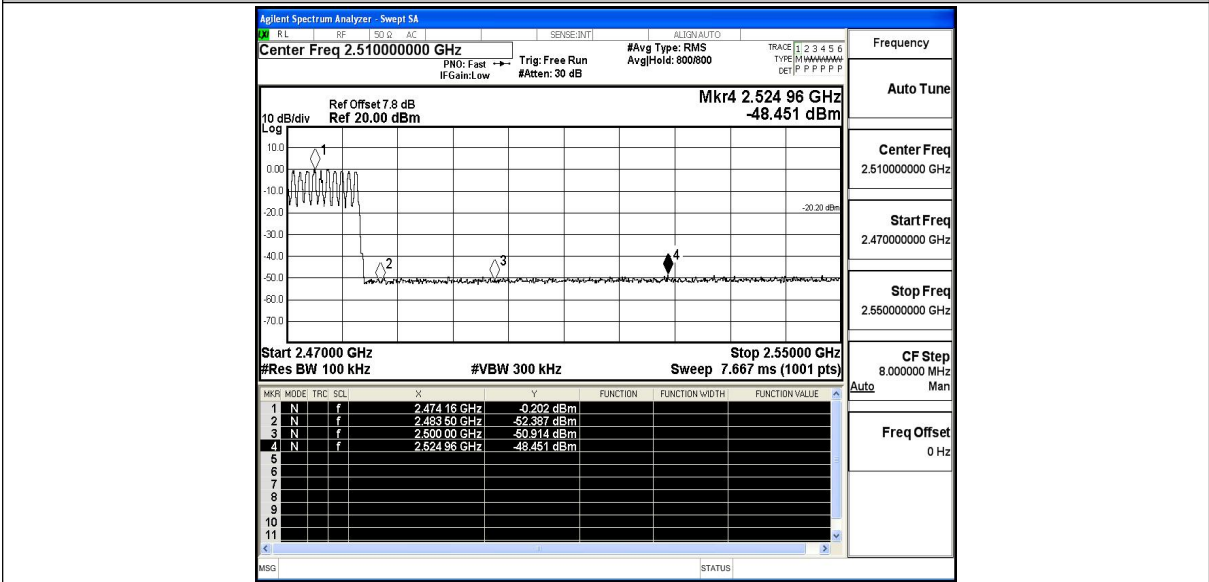


### Test Graphs

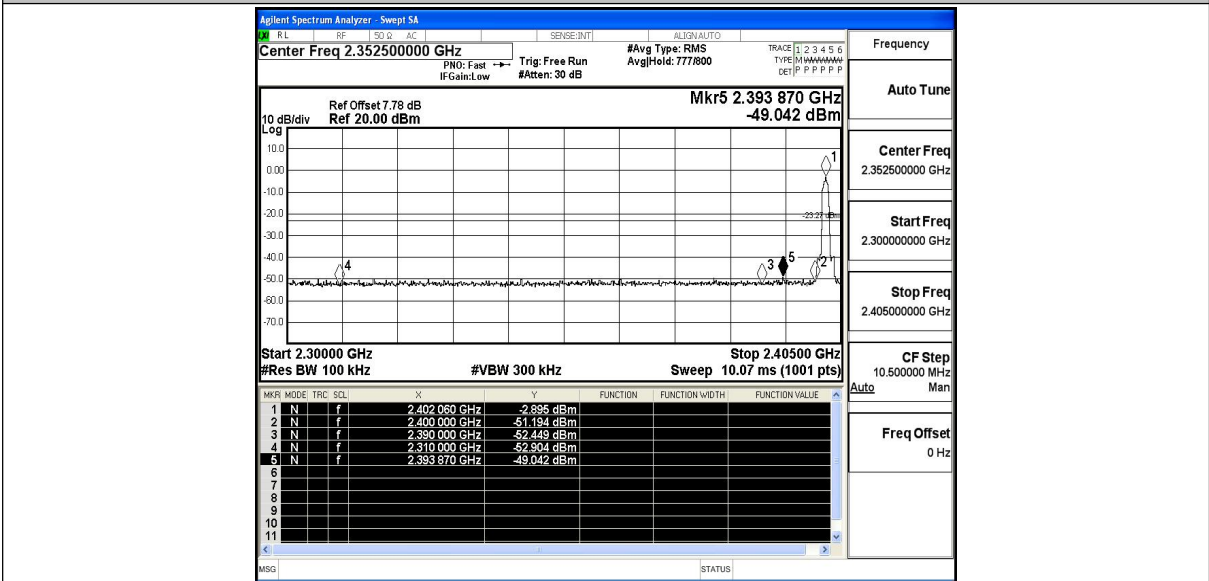




DH5\_Ant1\_High\_Hop\_2480

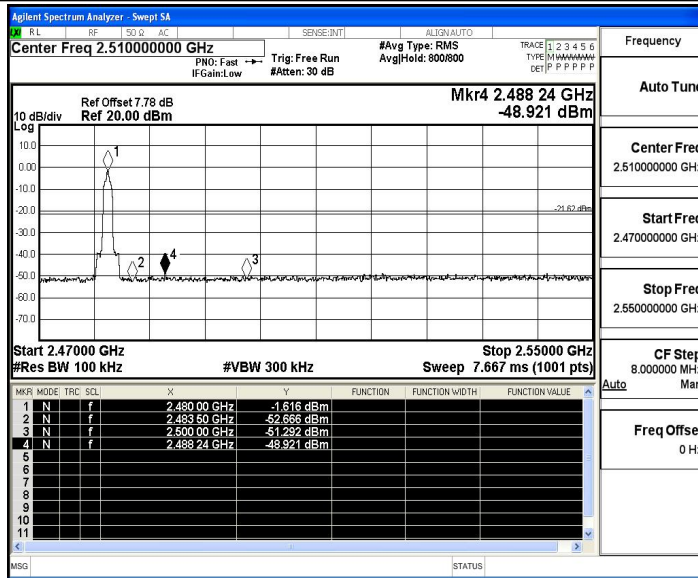


2DH5\_Ant1\_Low\_2402

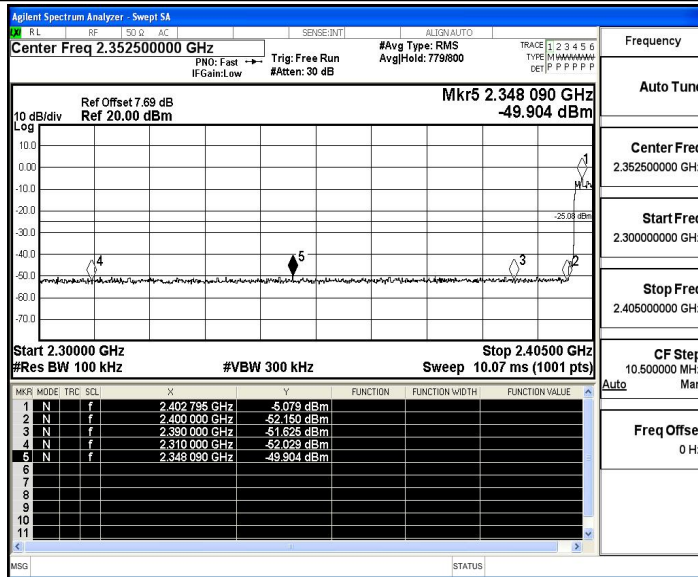




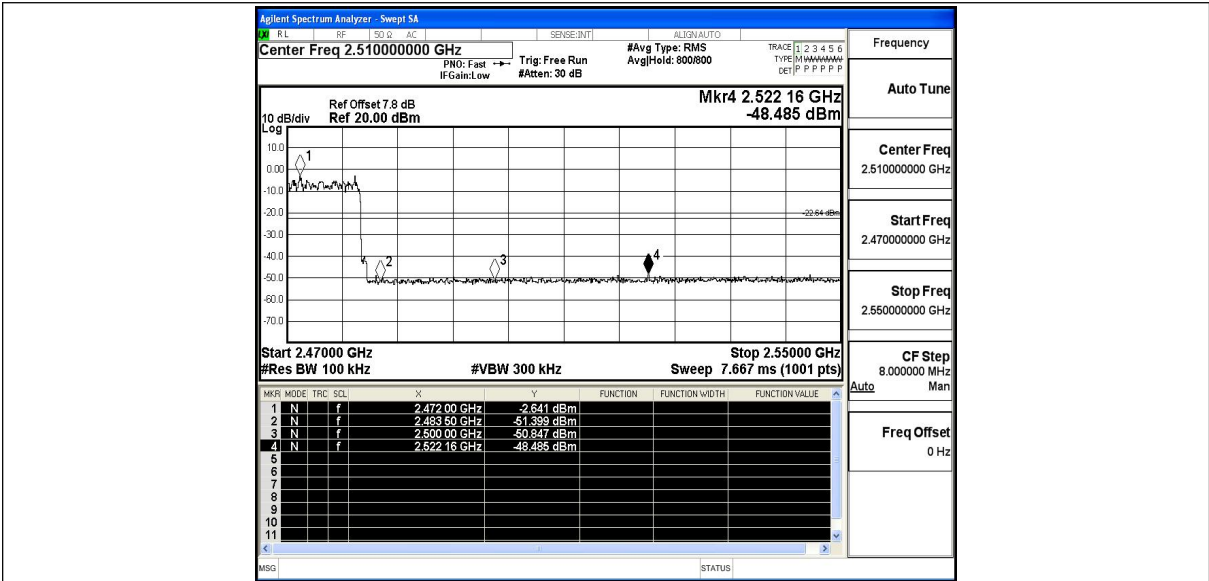
### 2DH5\_Ant1\_High\_2480



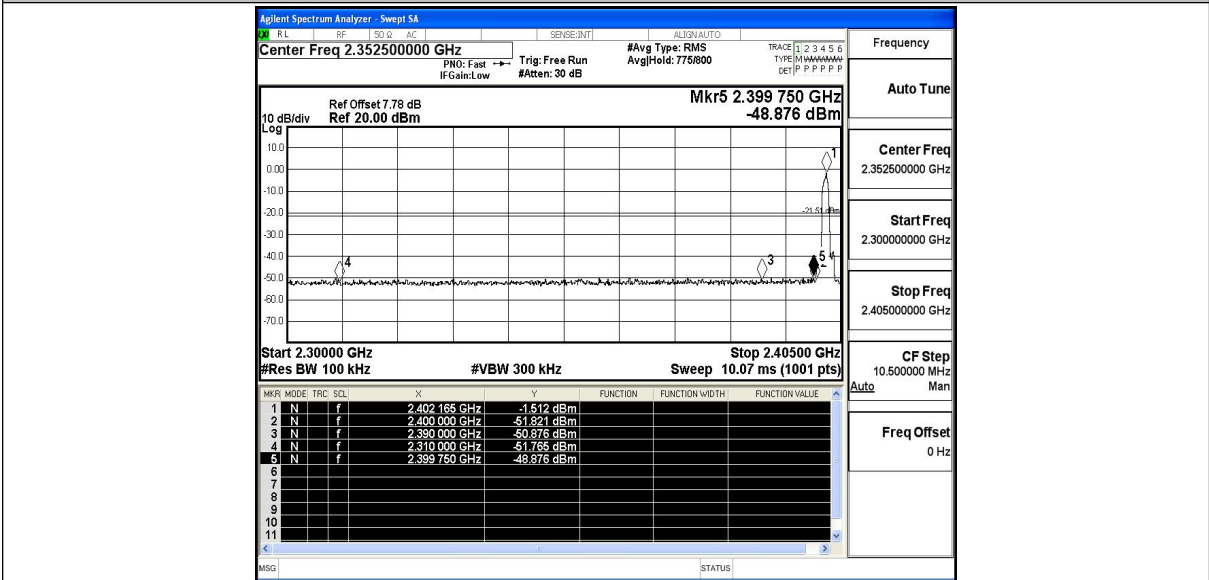
### 2DH5\_Ant1\_Low\_Hop\_2402



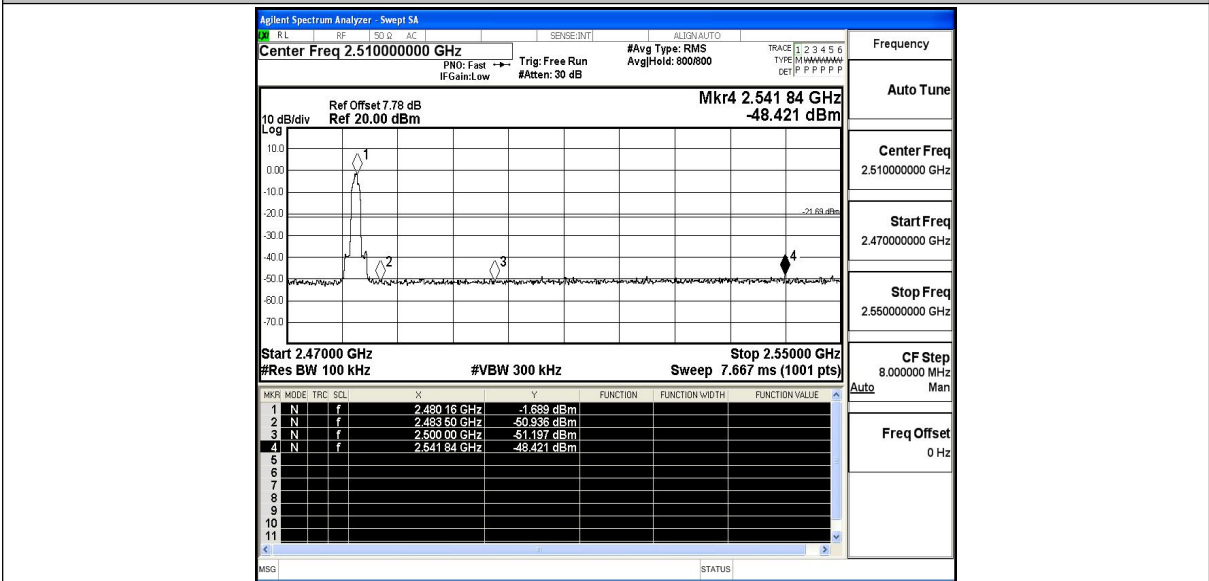
### 2DH5\_Ant1\_High\_Hop\_2480



3DH5\_Ant1\_Low\_2402

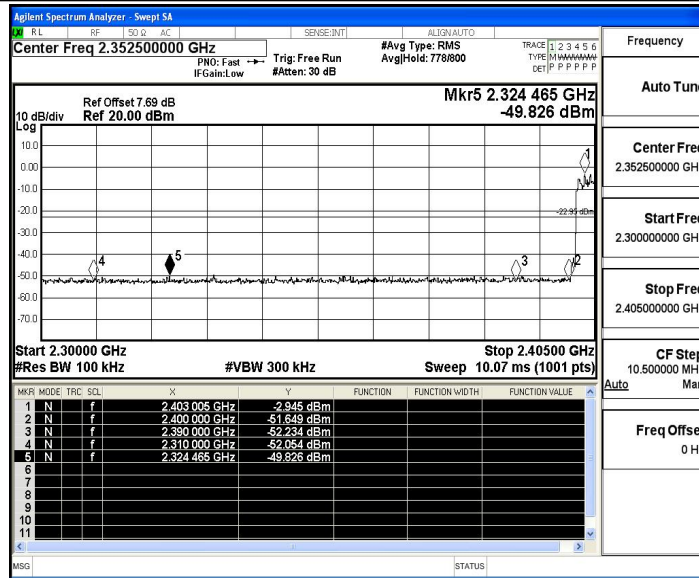


3DH5\_Ant1\_High\_2480

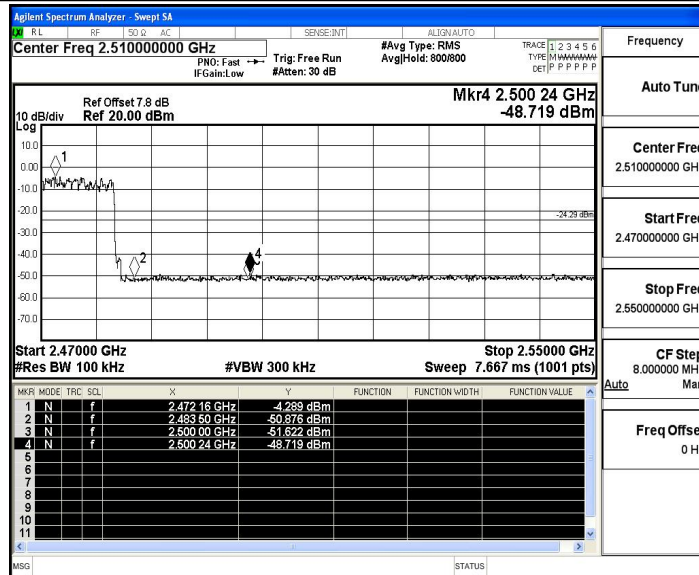




3DH5\_Ant1\_Low\_Hop\_2402



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	-0.04	-0.04	---	PASS
			30~1000	-0.04	-61.43	≤-20.04	PASS
			1000~26500	-0.04	-47.97	≤-20.04	PASS
		2441	Reference	0.56	0.56	---	PASS
			30~1000	0.56	-62.07	≤-19.44	PASS
			1000~26500	0.56	-47.61	≤-19.44	PASS
		2480	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-62.03	≤-20.54	PASS
			1000~26500	-0.54	-47.44	≤-20.54	PASS
2DH5	Ant1	2402	Reference	-1.68	-1.68	---	PASS
			30~1000	-1.68	-61.62	≤-21.68	PASS
			1000~26500	-1.68	-47.9	≤-21.68	PASS
		2441	Reference	-0.48	-0.48	---	PASS
			30~1000	-0.48	-61.44	≤-20.48	PASS
			1000~26500	-0.48	-48.09	≤-20.48	PASS
		2480	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-61.9	≤-21.92	PASS
			1000~26500	-1.92	-47.77	≤-21.92	PASS
3DH5	Ant1	2402	Reference	-2.61	-2.61	---	PASS
			30~1000	-2.61	-62.18	≤-22.61	PASS
			1000~26500	-2.61	-48.11	≤-22.61	PASS
		2441	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-62.24	≤-20.53	PASS
			1000~26500	-0.53	-47.68	≤-20.53	PASS
		2480	Reference	-2.60	-2.60	---	PASS
			30~1000	-2.60	-61.55	≤-22.6	PASS
			1000~26500	-2.60	-47.8	≤-22.6	PASS