



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: JVC Rover

Test Model: XS-S521PB

Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Mark Chen
Supervised by:	Li Huan

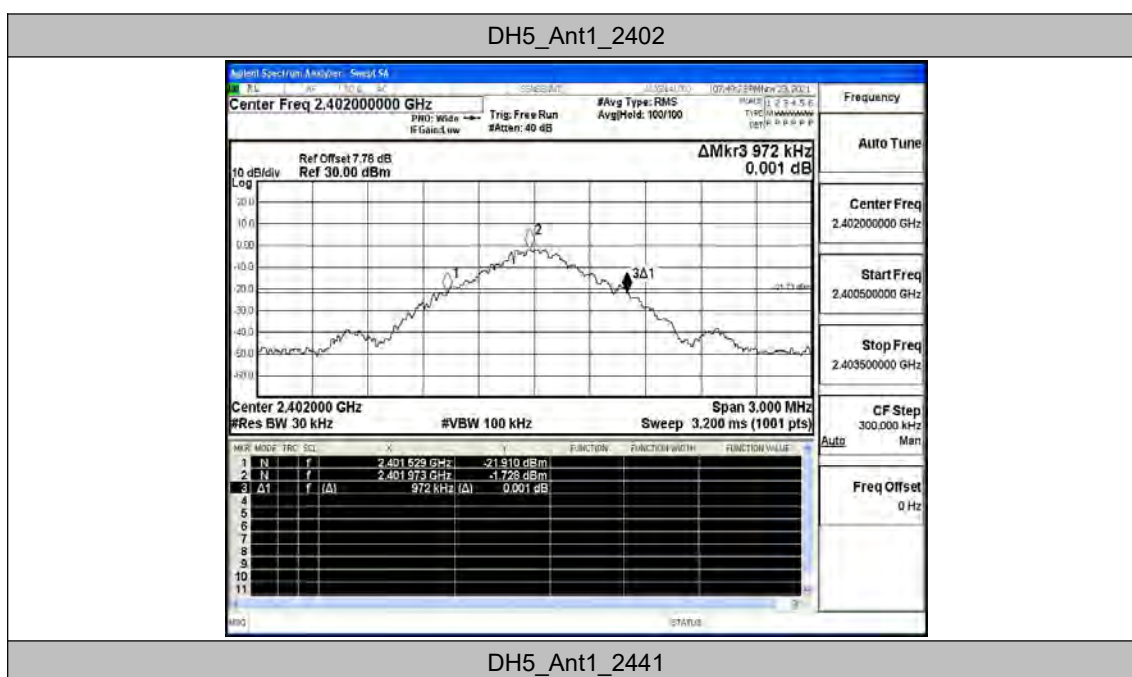


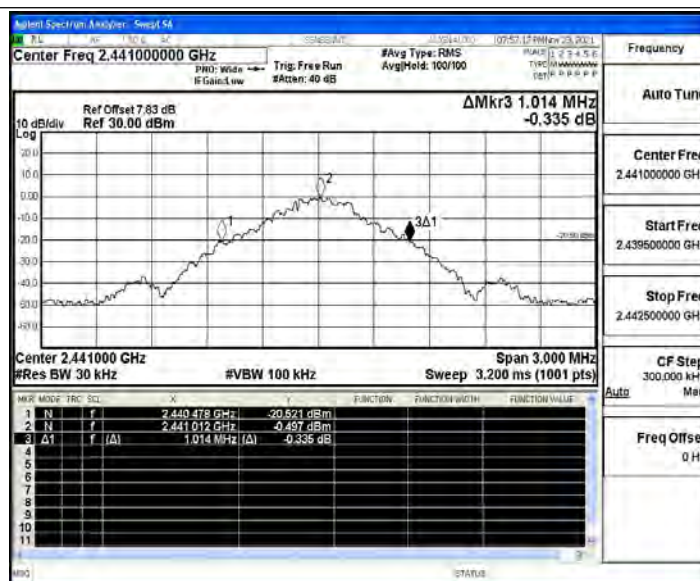
A.1 20dB Emission Bandwidth

Test Result

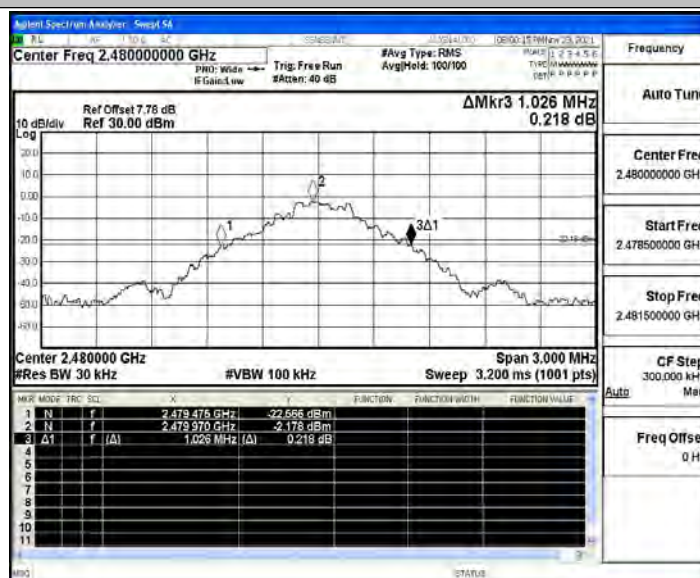
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.972	2401.529	2402.501	---	PASS
		2441	1.014	2440.478	2441.492	---	PASS
		2480	1.026	2479.475	2480.501	---	PASS
2DH5	Ant1	2402	1.308	2401.337	2402.645	---	PASS
		2441	1.329	2440.334	2441.663	---	PASS
		2480	1.284	2479.364	2480.648	---	PASS
3DH5	Ant1	2402	1.317	2401.343	2402.660	---	PASS
		2441	1.317	2440.343	2441.660	---	PASS
		2480	1.296	2479.346	2480.642	---	PASS

Test Graphs

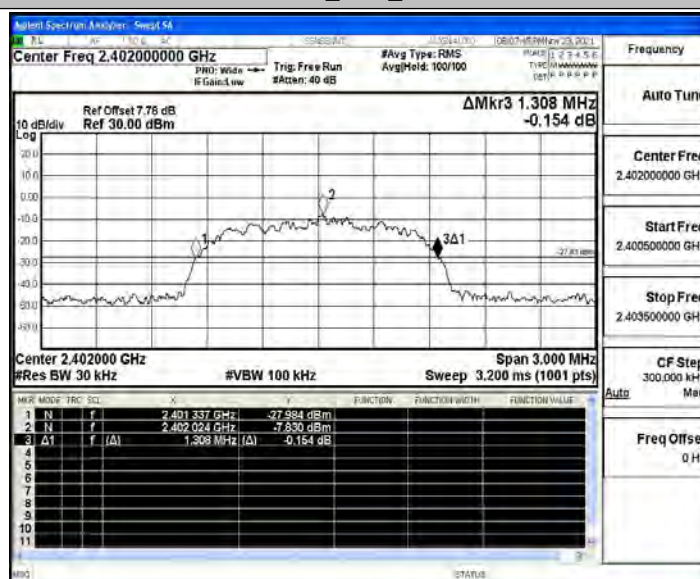




DH5_Ant1_2480

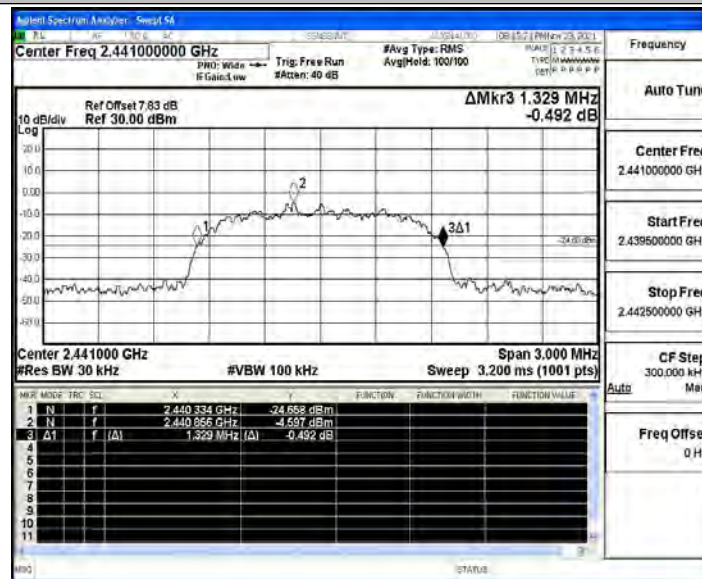


2DH5_Ant1_2402

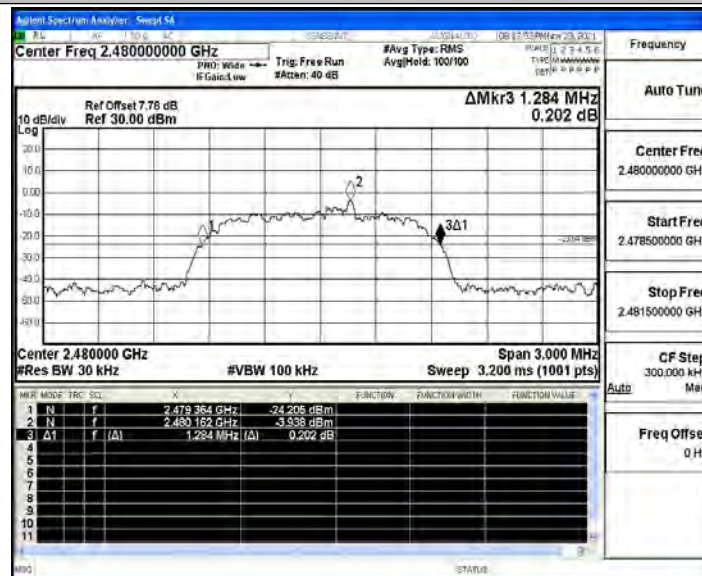




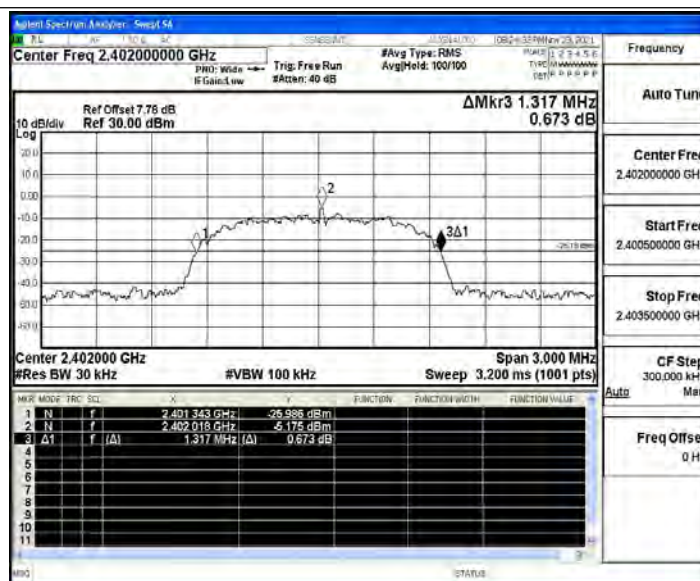
2DH5_Ant1_2441



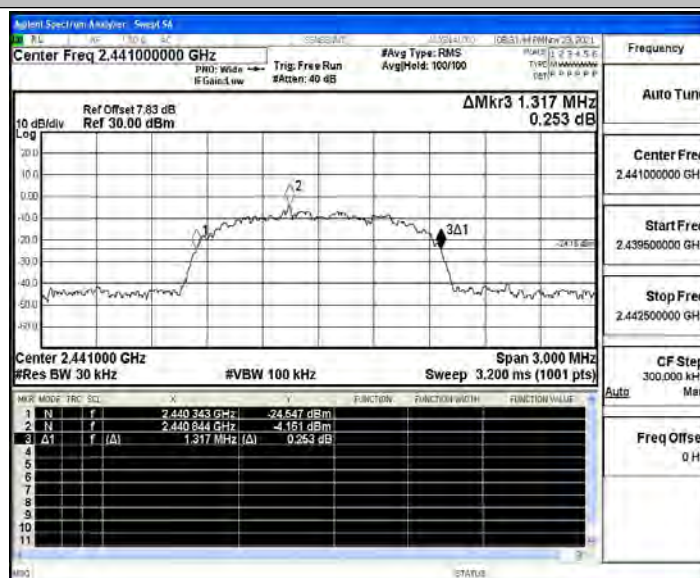
2DH5_Ant1_2480



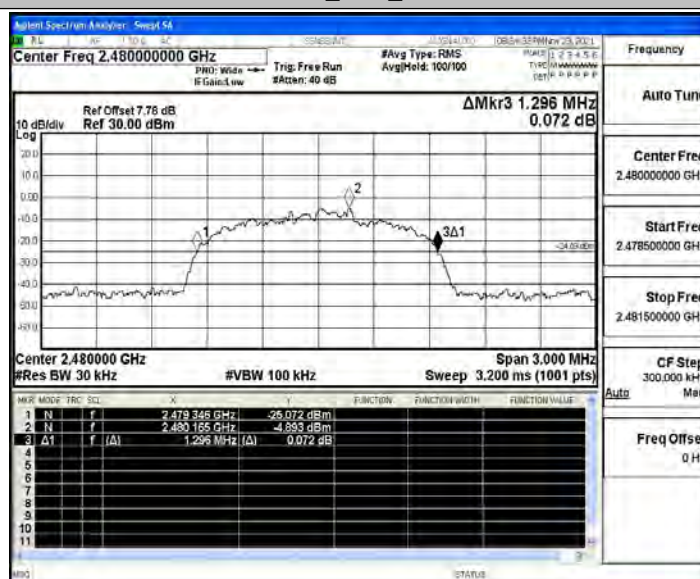
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



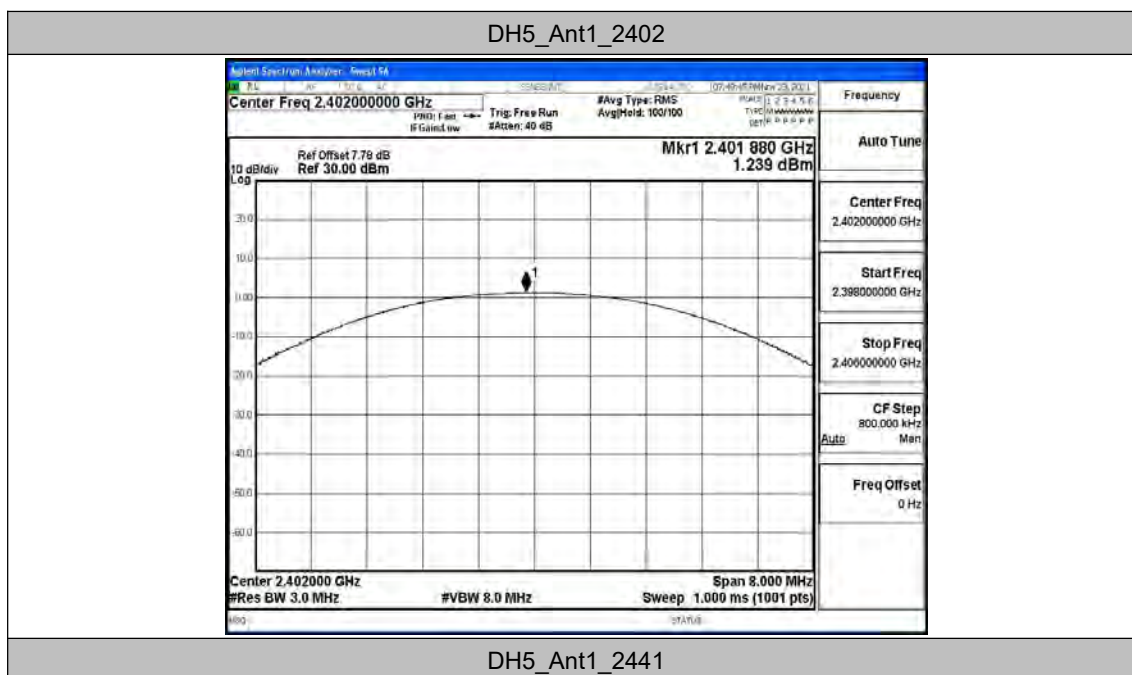


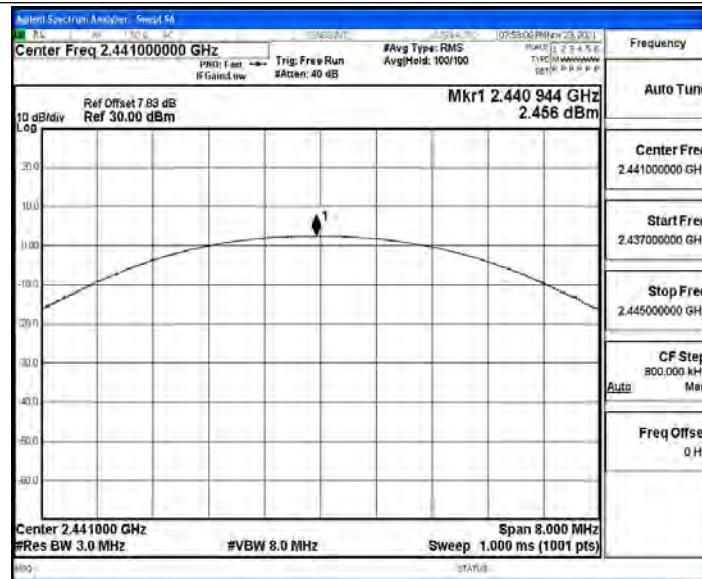
A.2 Maximum conducted output power

Test Result

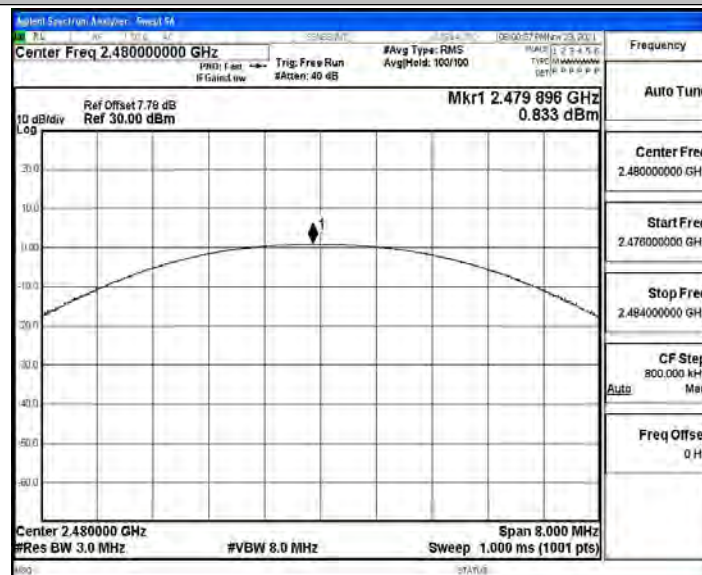
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.24	≤20.97	PASS
		2441	2.46	≤20.97	PASS
		2480	0.83	≤20.97	PASS
2DH5	Ant1	2402	-2.08	≤20.97	PASS
		2441	1.3	≤20.97	PASS
		2480	-0.13	≤20.97	PASS
3DH5	Ant1	2402	0.49	≤20.97	PASS
		2441	1.59	≤20.97	PASS
		2480	0.08	≤20.97	PASS

Test Graphs

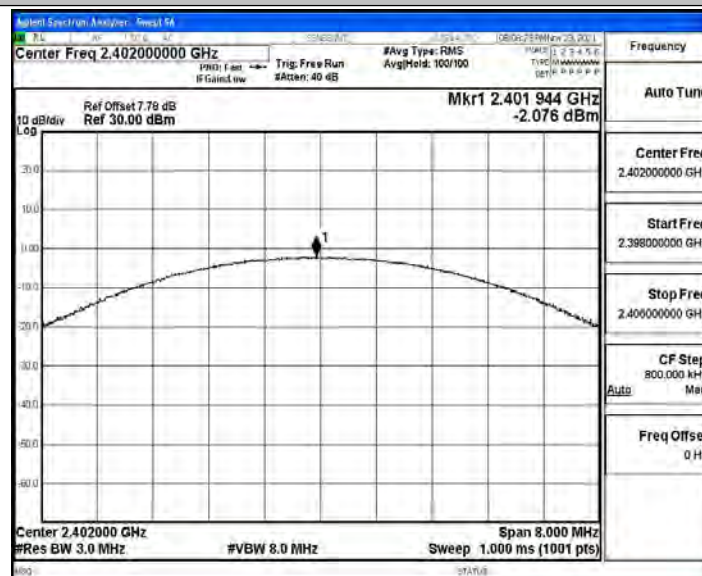




DH5_Ant1_2480

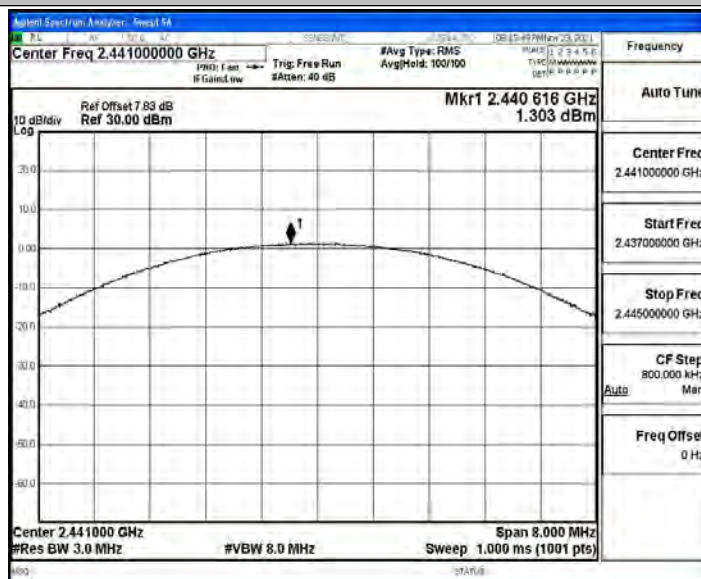


2DH5_Ant1_2402

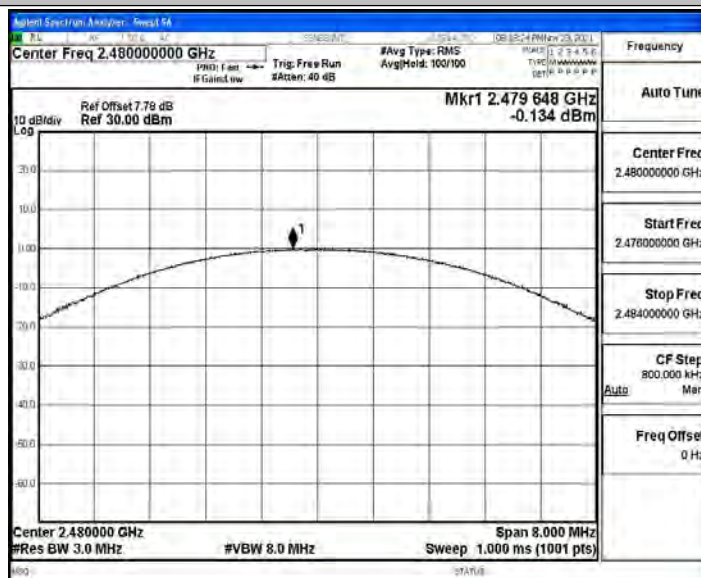




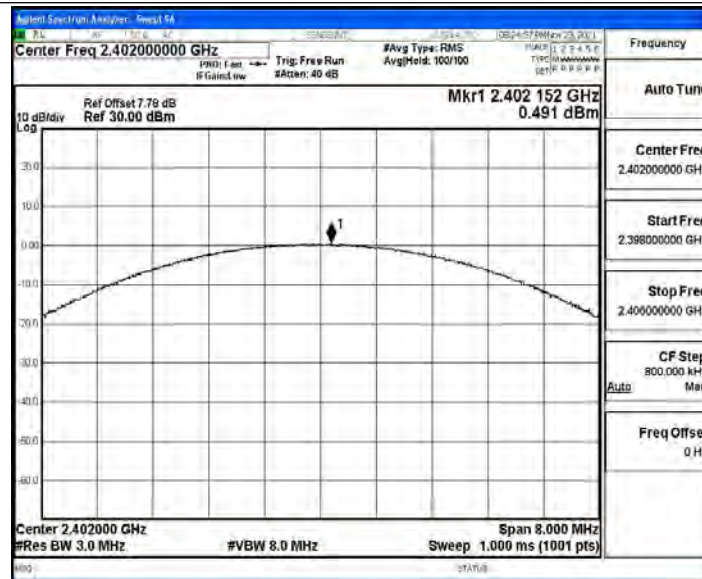
2DH5_Ant1_2441



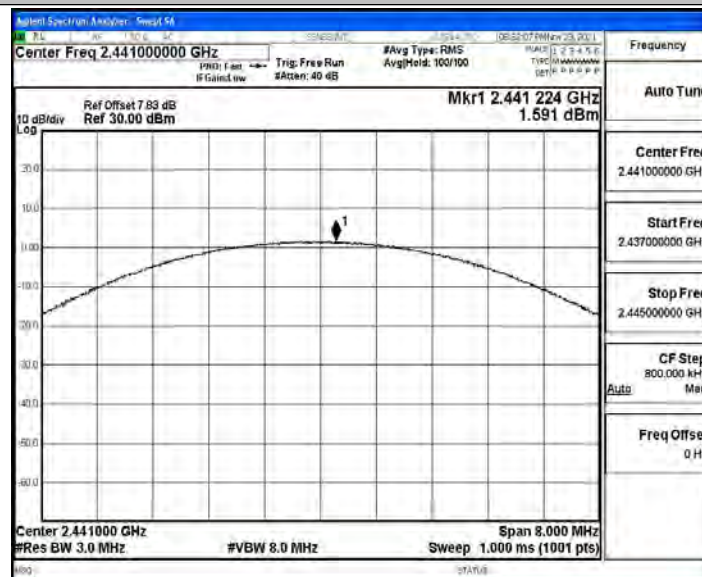
2DH5_Ant1_2480



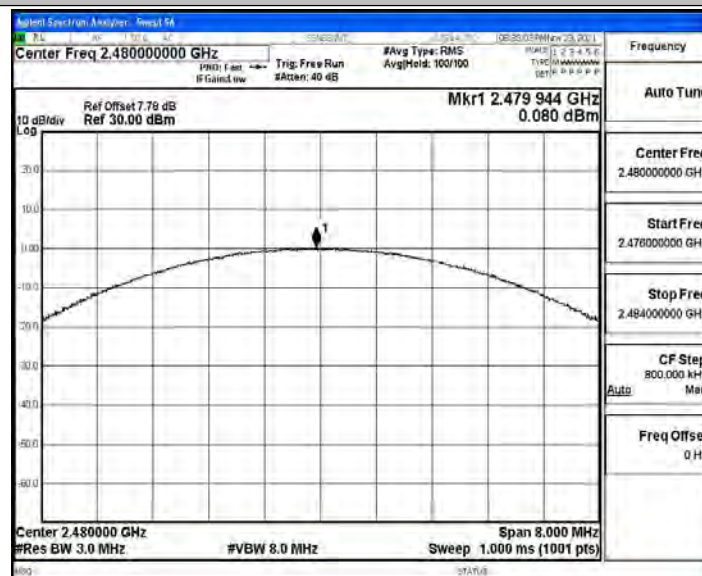
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





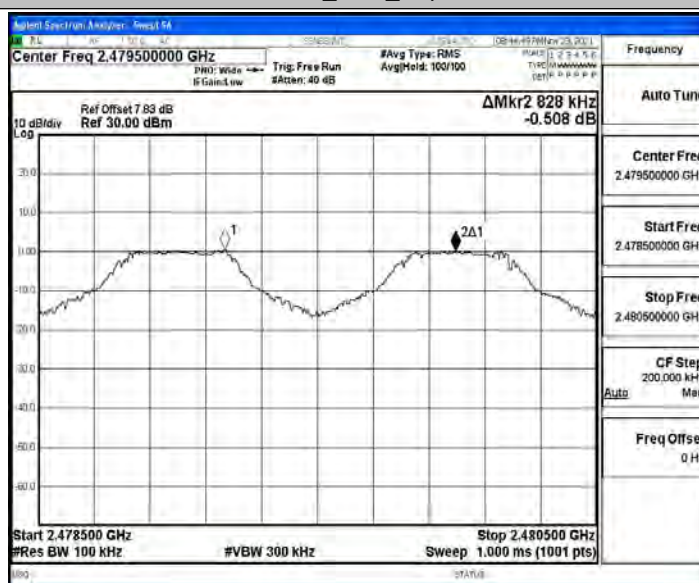
A.3 Carrier frequency separation

Test Result

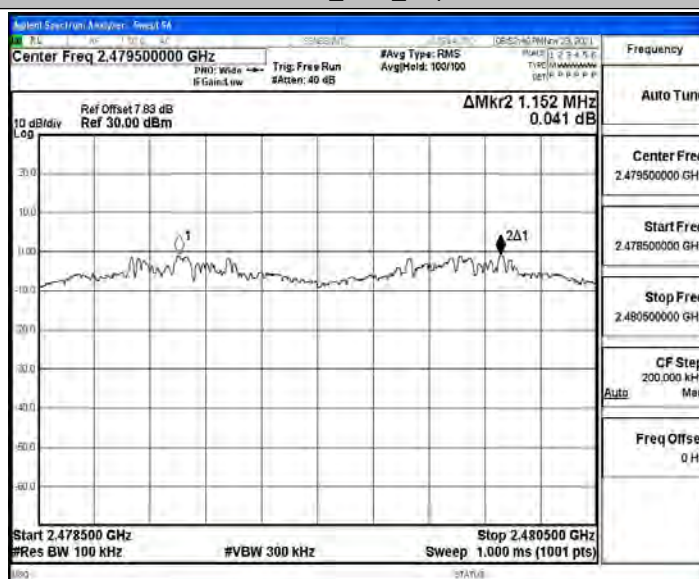
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.828	≥ 0.684	PASS
2DH5	Ant1	Hop	1.152	≥ 0.886	PASS
3DH5	Ant1	Hop	1.352	≥ 1.317	PASS

Test Graphs

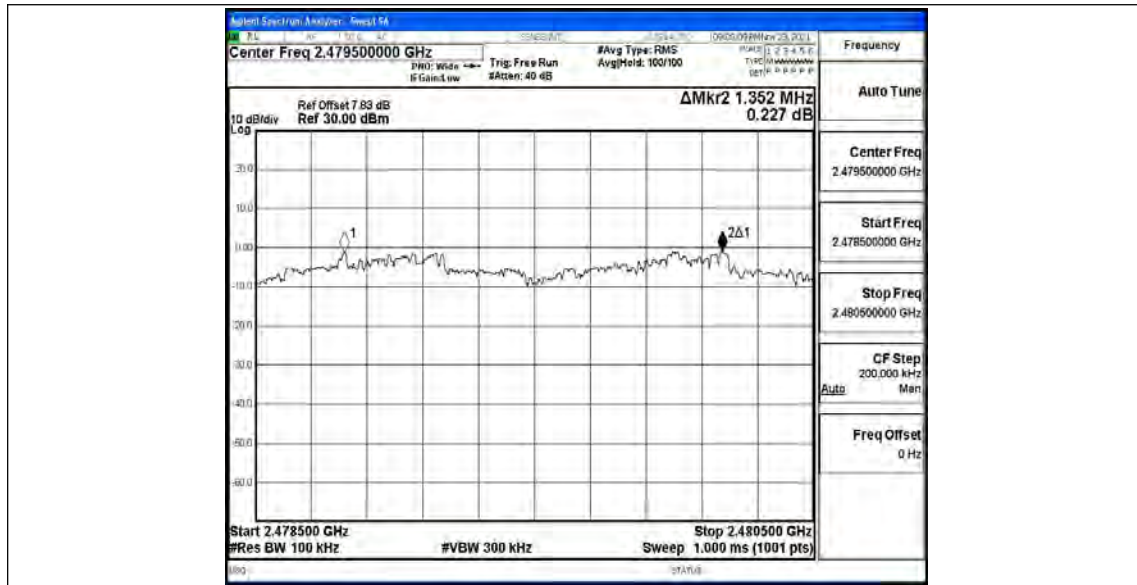
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





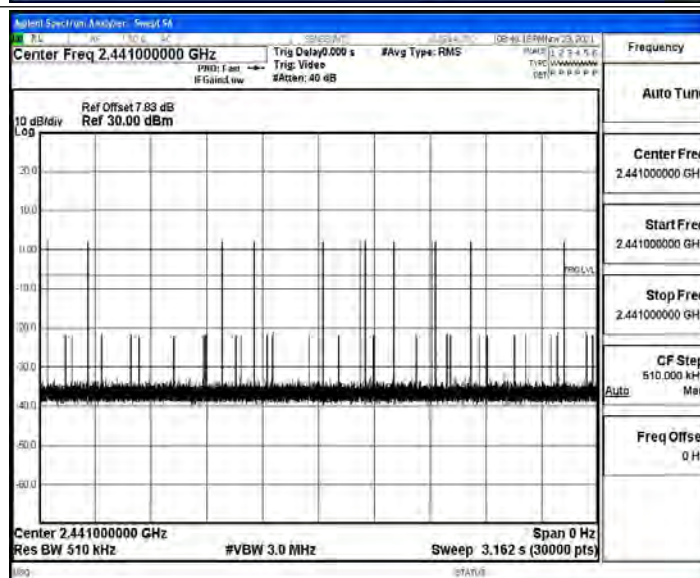
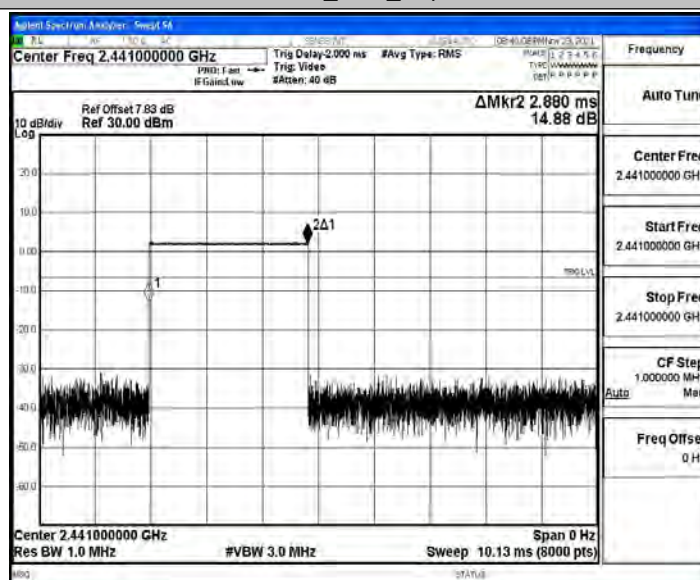
A.4 Time of occupancy

Test Result

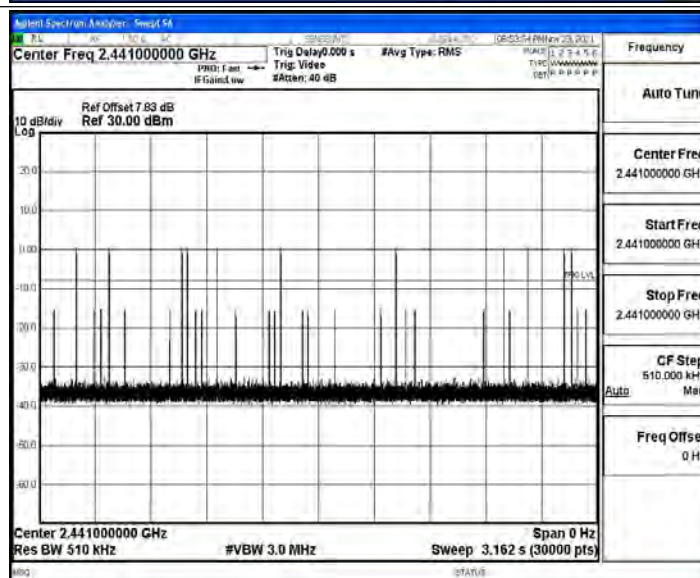
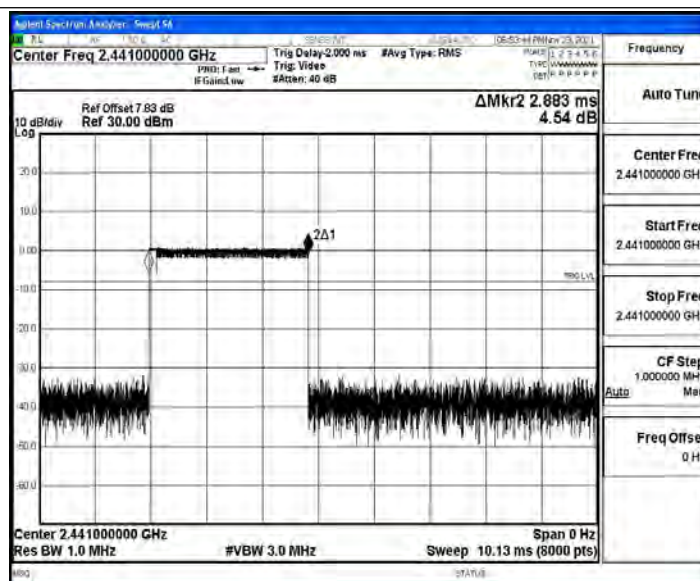
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	130	0.374	≤0.4	PASS
2DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS
3DH5	Ant1	Hop	2.89	130	0.375	≤0.4	PASS

Test Graphs

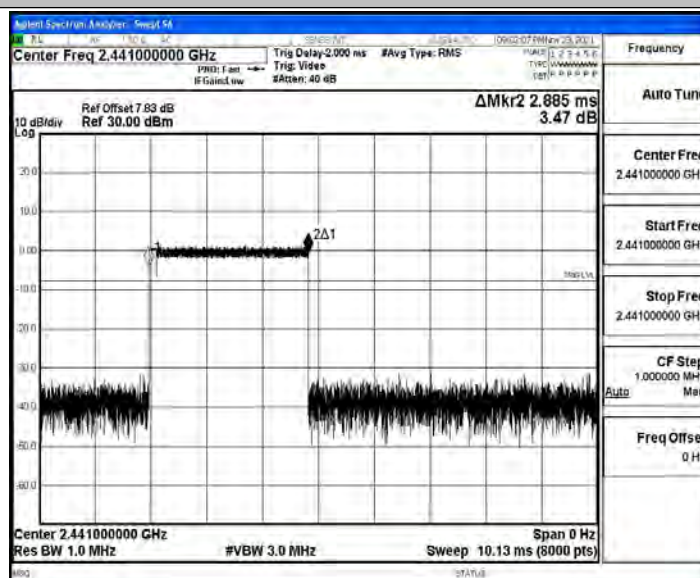
DH5_Ant1_Hop

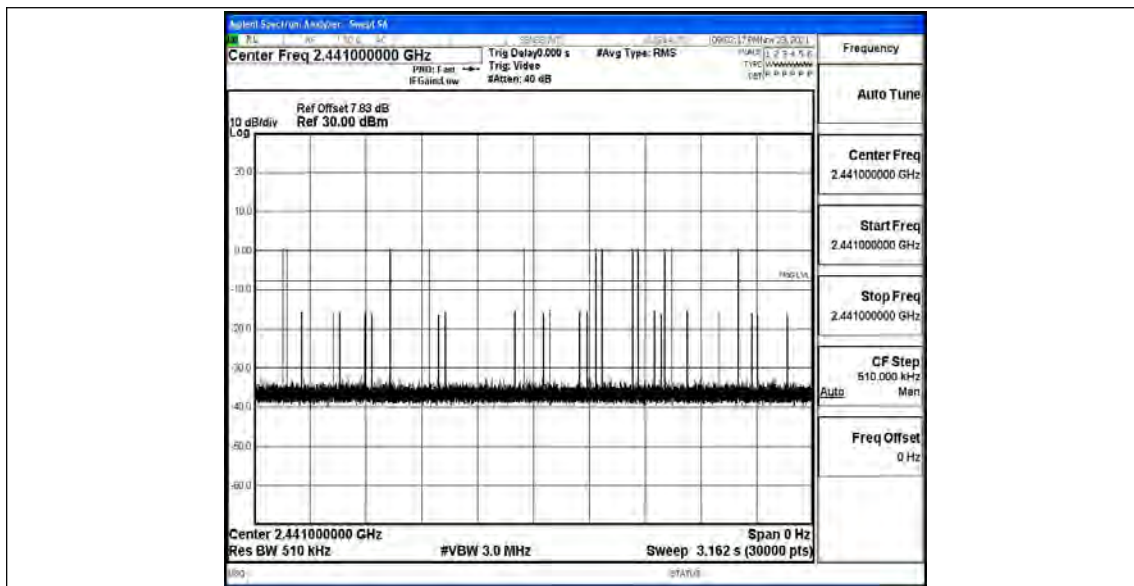


2DH5_Ant1_Hop



3DH5_Ant1_Hop







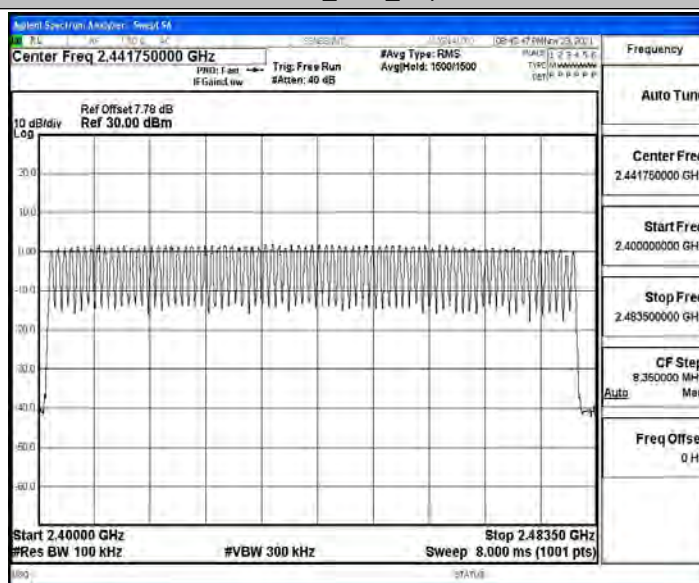
A.5 Number of hopping channels

Test Result

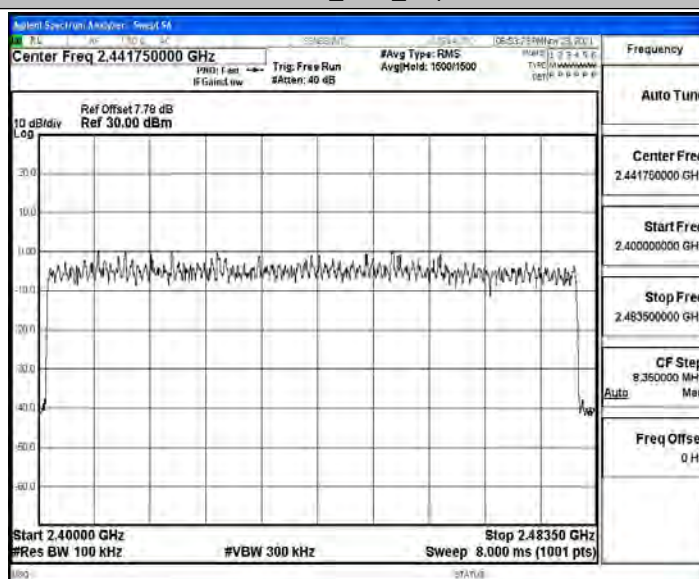
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

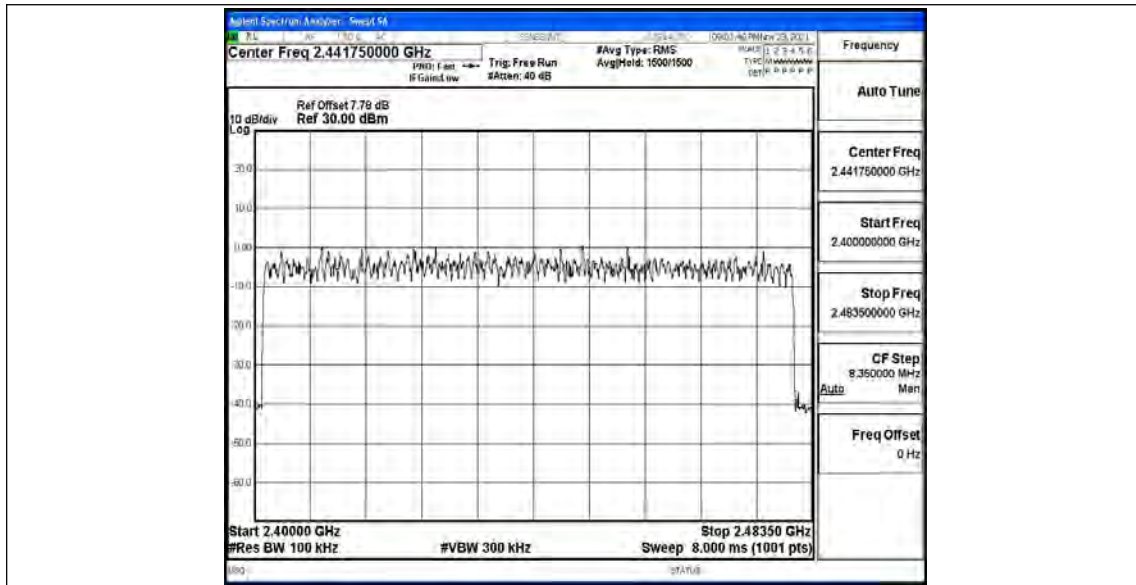
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.6 Band edge measurements

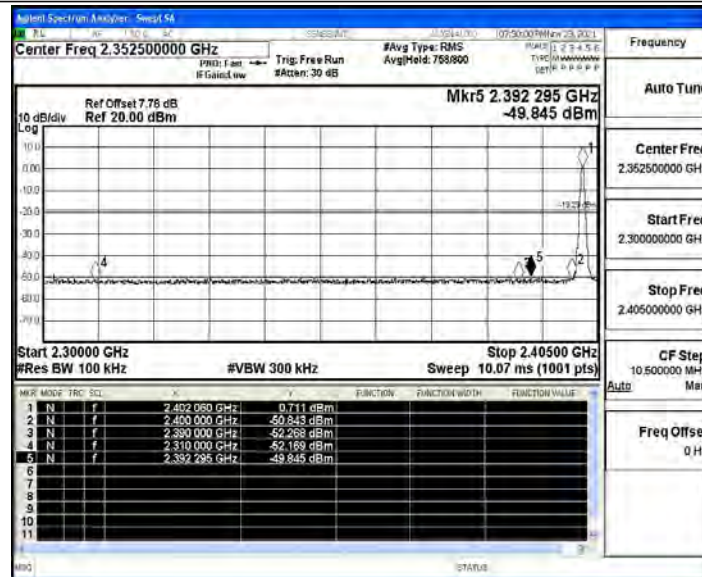
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.71	-49.85	≤ -19.29	PASS
		High	2480	0.44	-48.23	≤ -19.57	PASS
		Low	Hop_2402	0.82	-49.8	≤ -19.18	PASS
		High	Hop_2480	0.54	-48.58	≤ -19.47	PASS
2DH5	Ant1	Low	2402	-5.93	-49.37	≤ -25.93	PASS
		High	2480	-0.89	-48.5	≤ -20.89	PASS
		Low	Hop_2402	-1.60	-49.56	≤ -21.6	PASS
		High	Hop_2480	-1.79	-48.32	≤ -21.79	PASS
3DH5	Ant1	Low	2402	-0.78	-49.42	≤ -20.78	PASS
		High	2480	-0.90	-47.93	≤ -20.9	PASS
		Low	Hop_2402	-1.47	-49.33	≤ -21.47	PASS
		High	Hop_2480	-3.43	-48.47	≤ -23.43	PASS

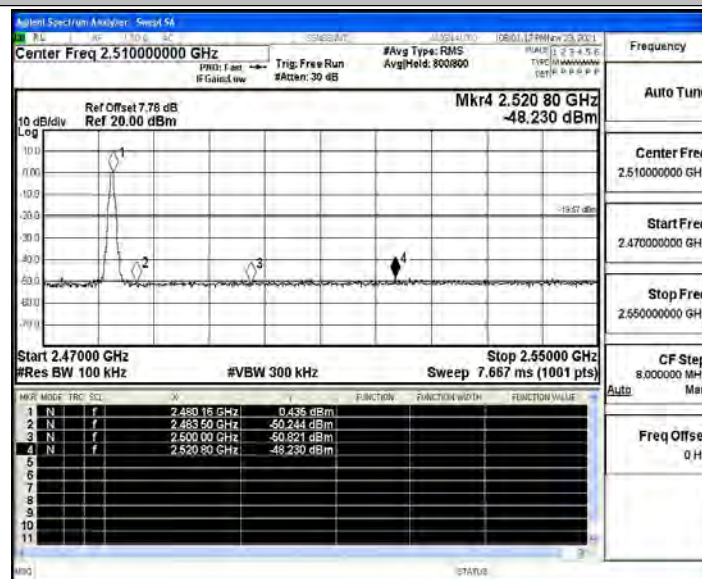


Test Graphs

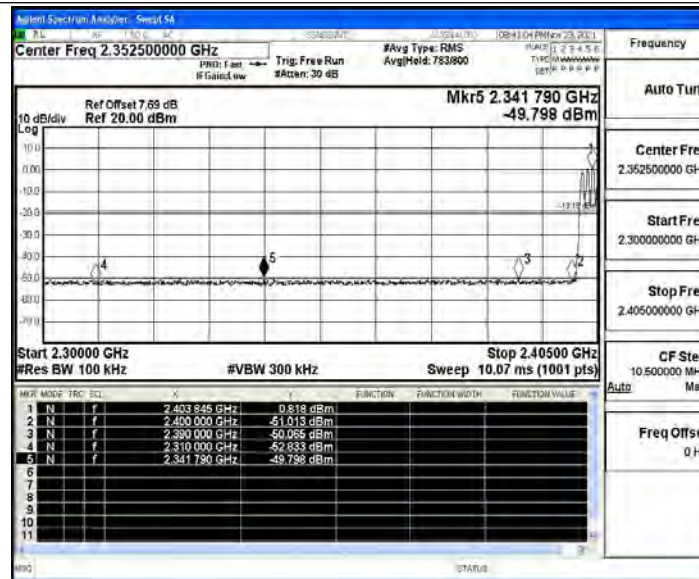
DH5_Ant1_Low_2402



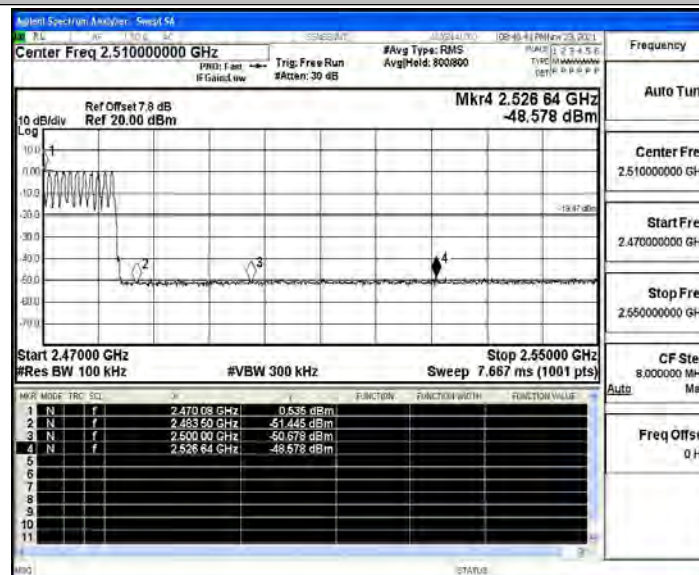
DH5_Ant1_High_2480



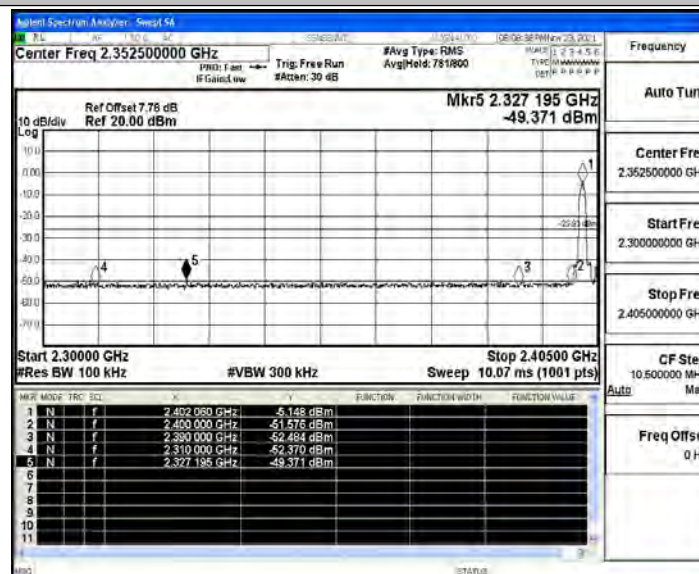
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

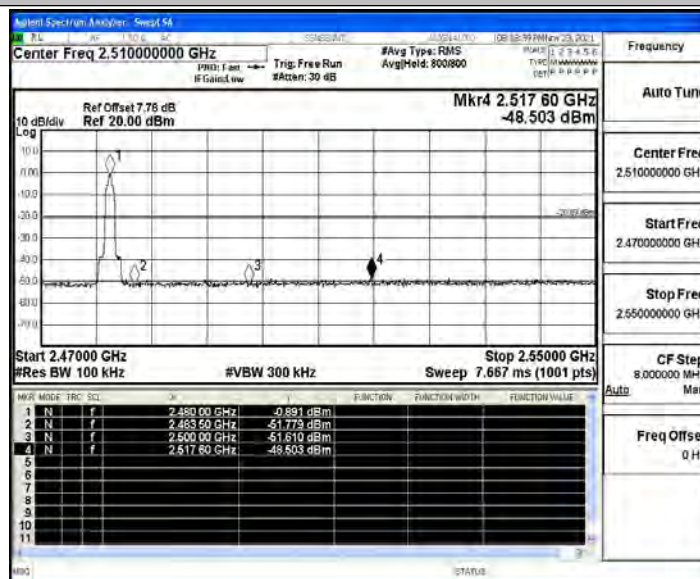


2DH5_Ant1_Low_2402

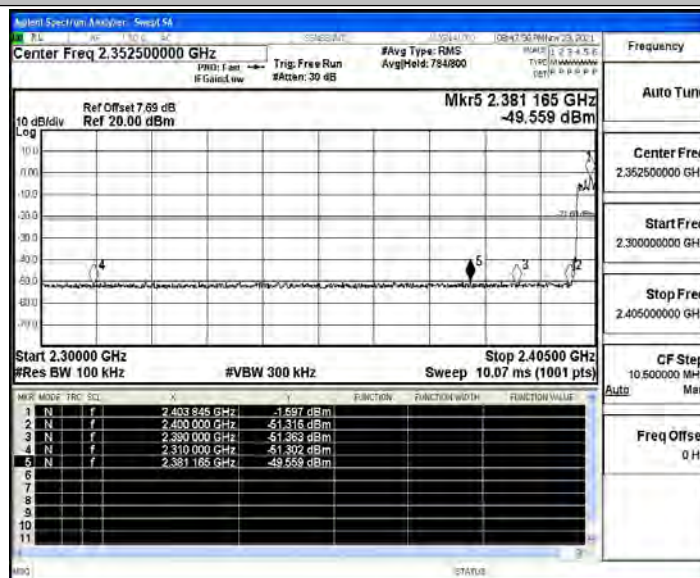




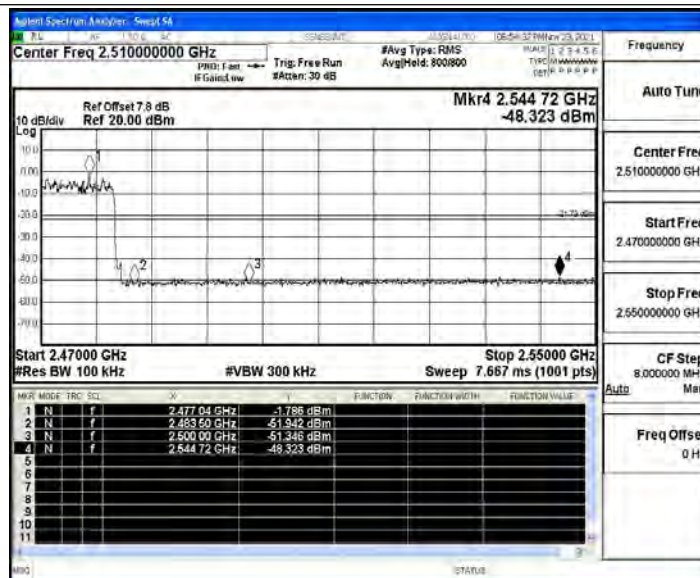
2DH5_Ant1_High_2480



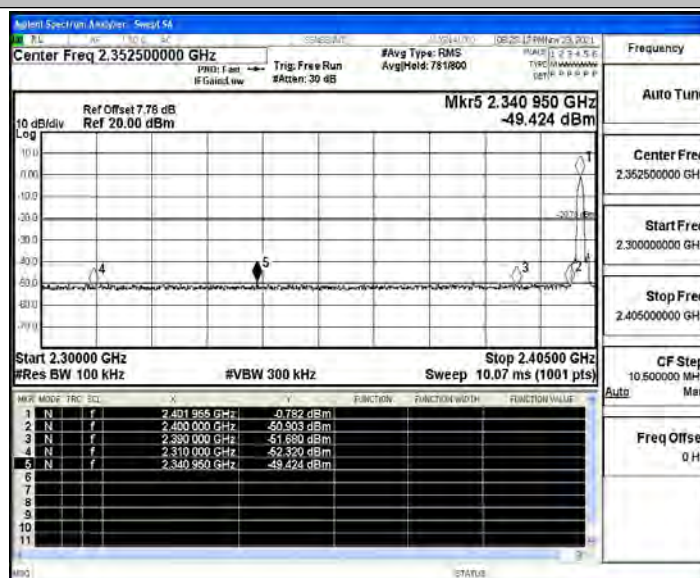
2DH5_Ant1_Low_Hop_2402



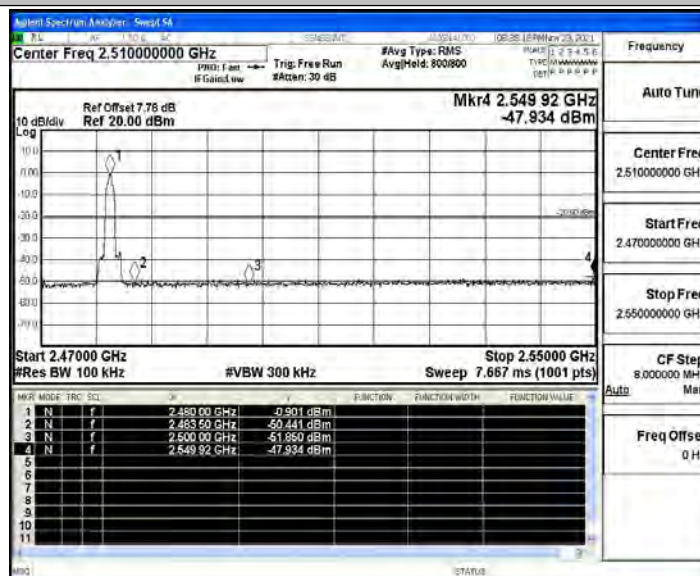
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

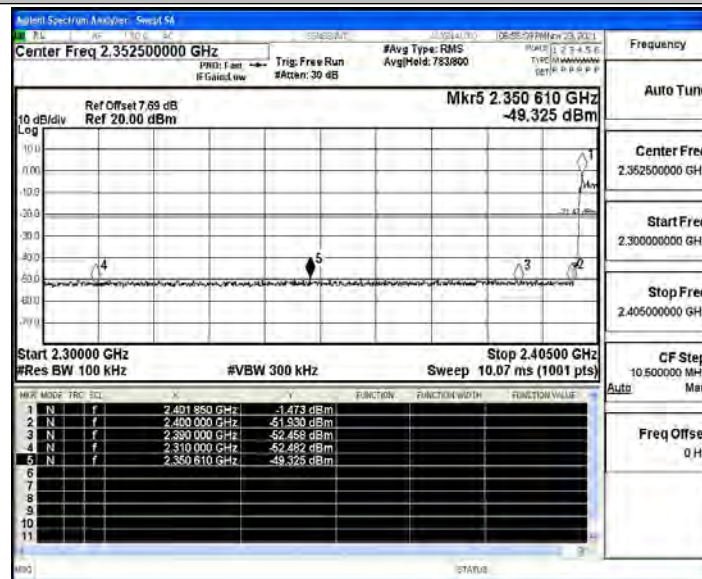


3DH5_Ant1_High_2480

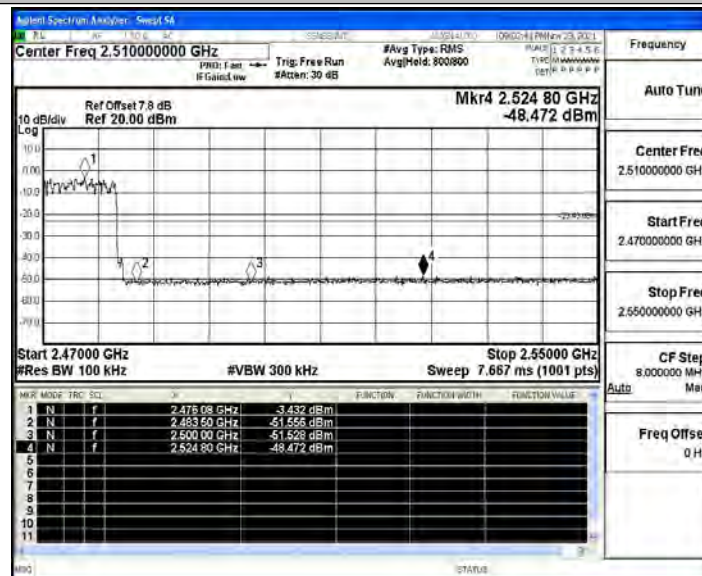




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

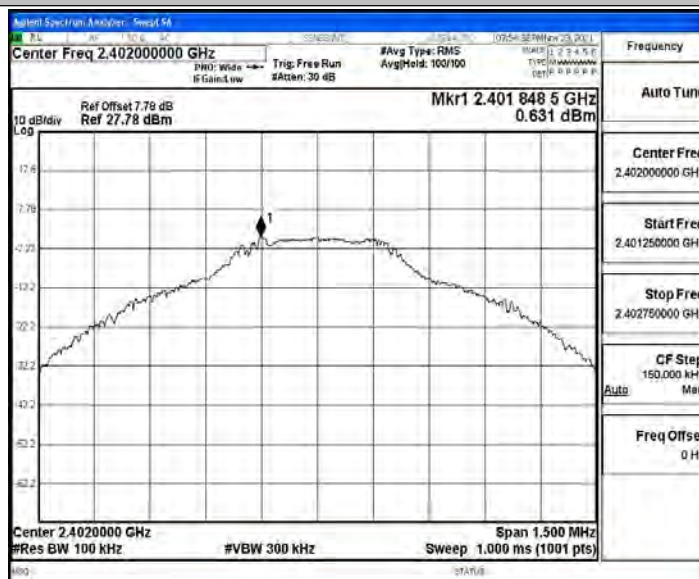
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-61.87	≤-19.37	PASS
			1000~26500	0.63	-47.02	≤-19.37	PASS
		2441	Reference	1.39	1.39	---	PASS
			30~1000	1.39	-61.13	≤-18.61	PASS
			1000~26500	1.39	-46.53	≤-18.61	PASS
		2480	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-61.16	≤-20.14	PASS
			1000~26500	-0.14	-47.14	≤-20.14	PASS
2DH5	Ant1	2402	Reference	-3.55	-3.55	---	PASS
			30~1000	-3.55	-56.53	≤-23.55	PASS
			1000~26500	-3.55	-46.62	≤-23.55	PASS
		2441	Reference	-0.44	-0.44	---	PASS
			30~1000	-0.44	-61.39	≤-20.44	PASS
			1000~26500	-0.44	-47.02	≤-20.44	PASS
		2480	Reference	-1.40	-1.40	---	PASS
			30~1000	-1.40	-60.93	≤-21.4	PASS
			1000~26500	-1.40	-46.78	≤-21.4	PASS
3DH5	Ant1	2402	Reference	-1.47	-1.47	---	PASS
			30~1000	-1.47	-61.33	≤-21.47	PASS
			1000~26500	-1.47	-46.89	≤-21.47	PASS
		2441	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-61.66	≤-20.29	PASS
			1000~26500	-0.29	-46.38	≤-20.29	PASS
		2480	Reference	-1.94	-1.94	---	PASS
			30~1000	-1.94	-44.83	≤-21.94	PASS
			1000~26500	-1.94	-47.19	≤-21.94	PASS

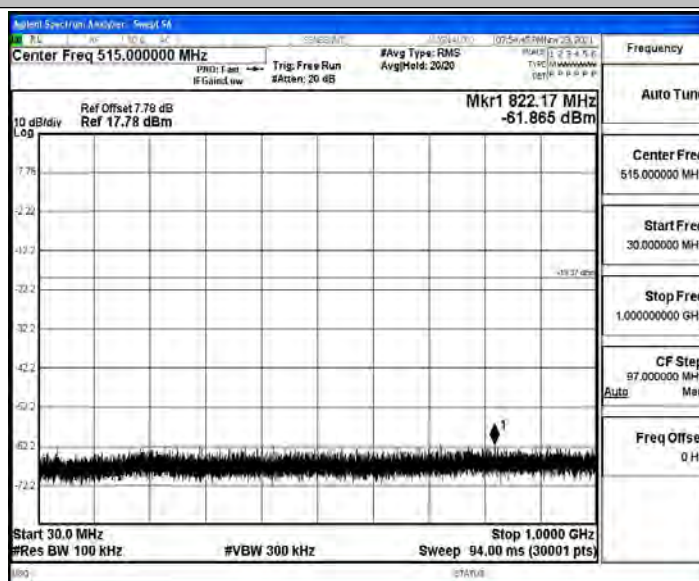


Test Graphs

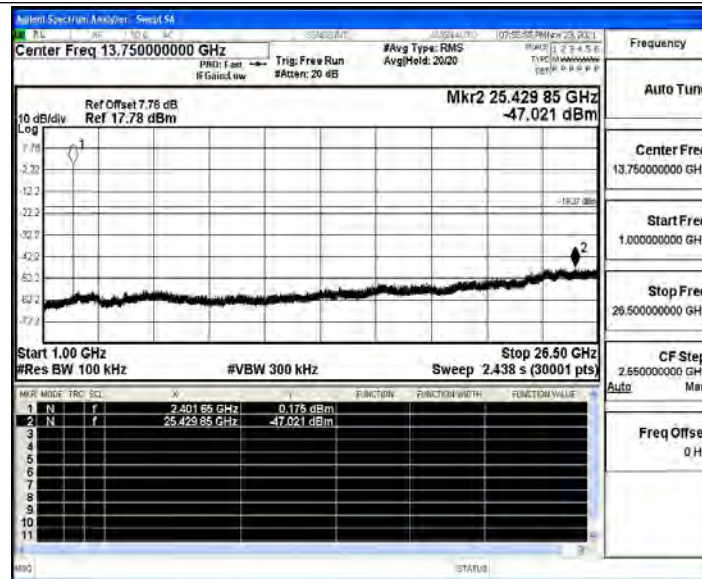
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



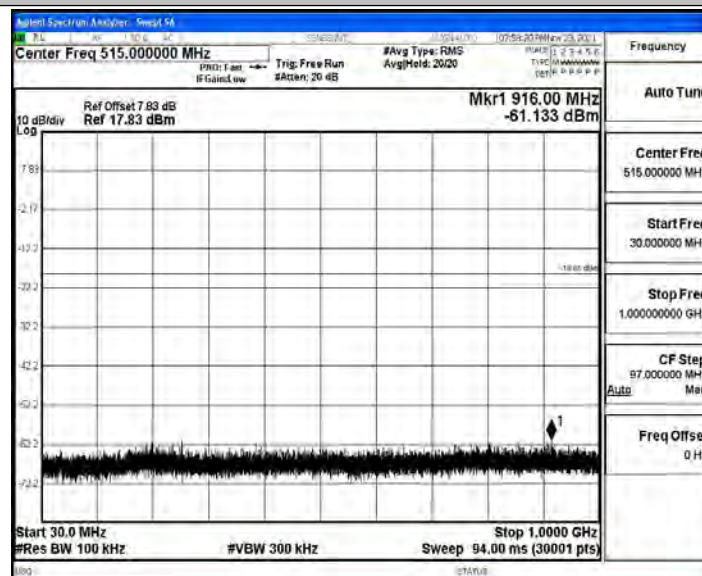
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference

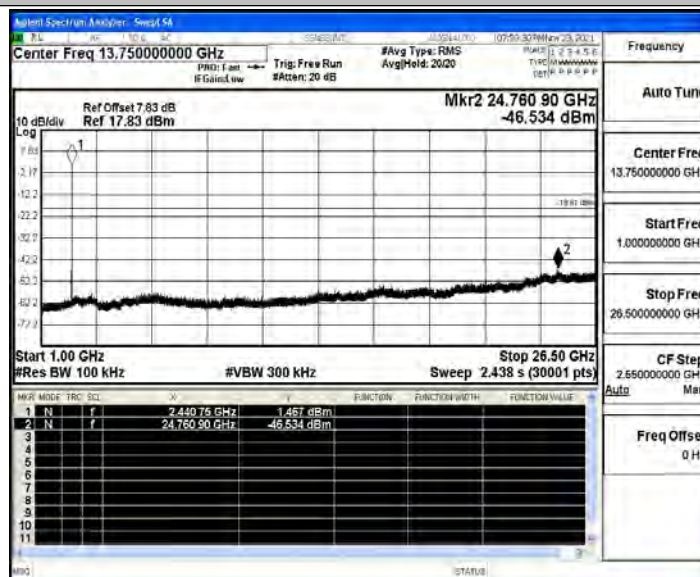


DH5_Ant1_2441_30~1000





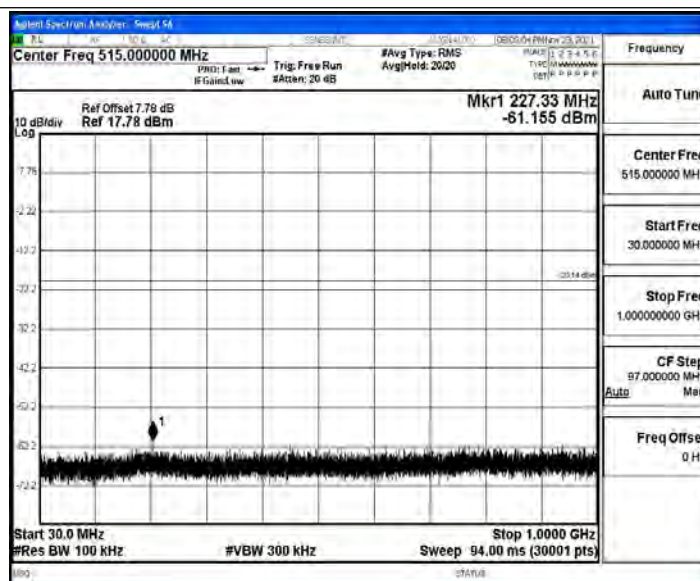
DH5_Ant1_2441_1000~26500



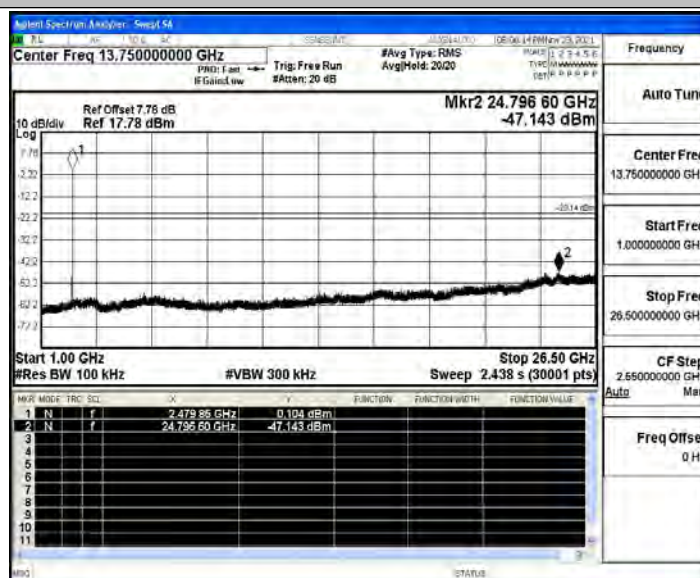
DH5_Ant1_2480_0~Reference



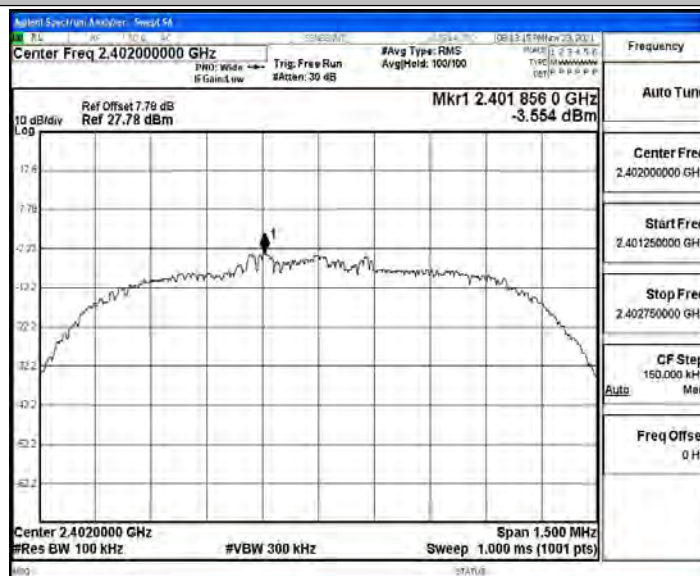
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

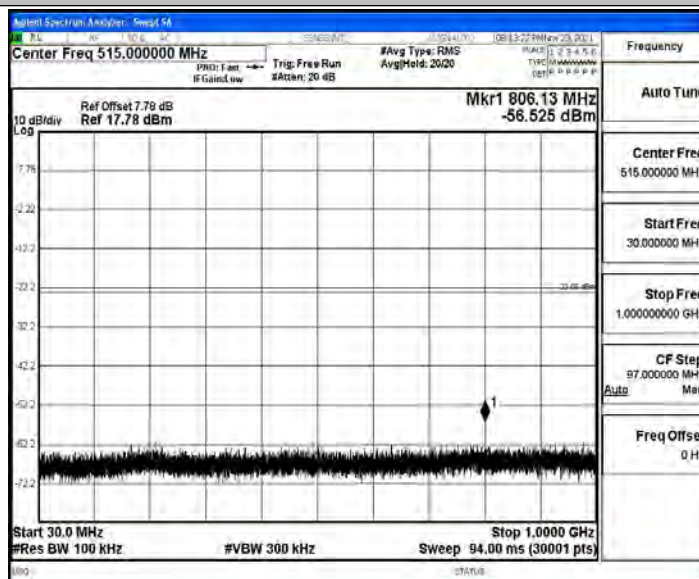


2DH5_Ant1_2402_0~Reference

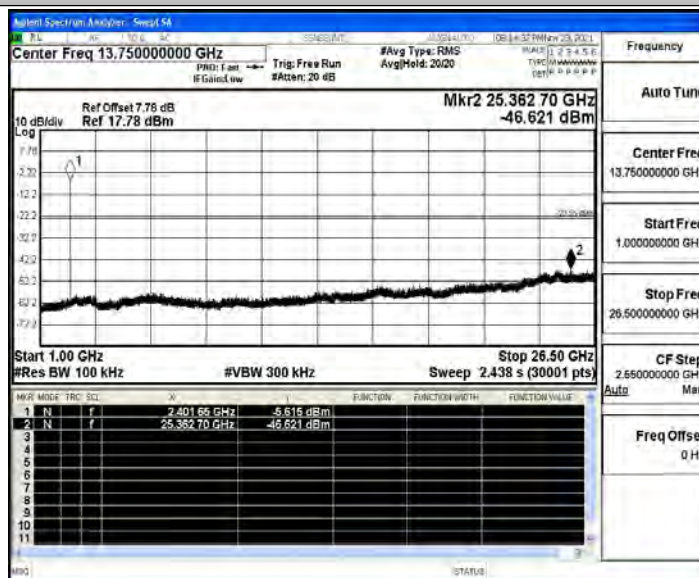




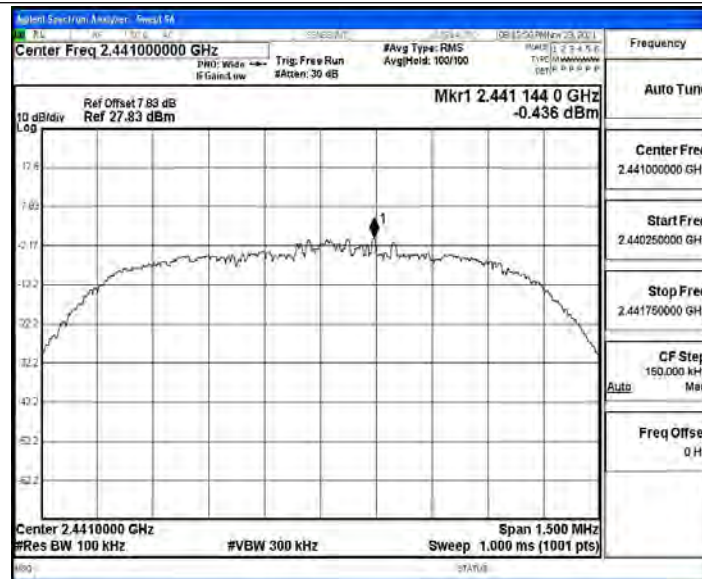
2DH5_Ant1_2402_30~1000



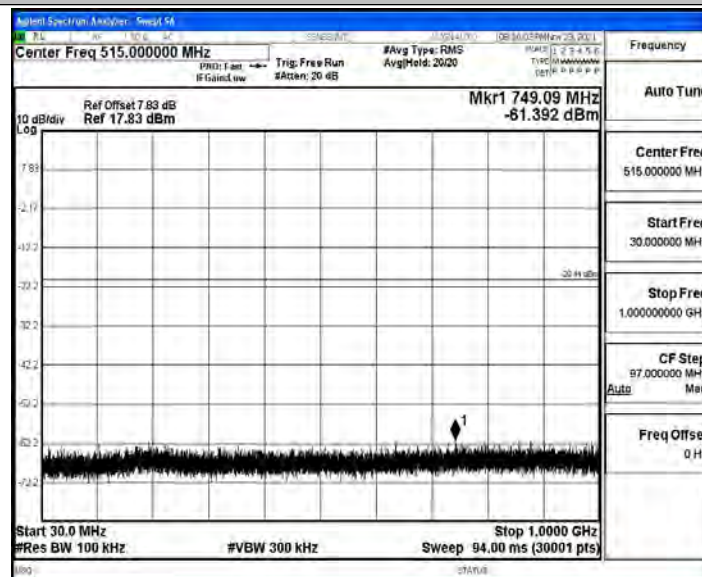
2DH5_Ant1_2402_1000~26500



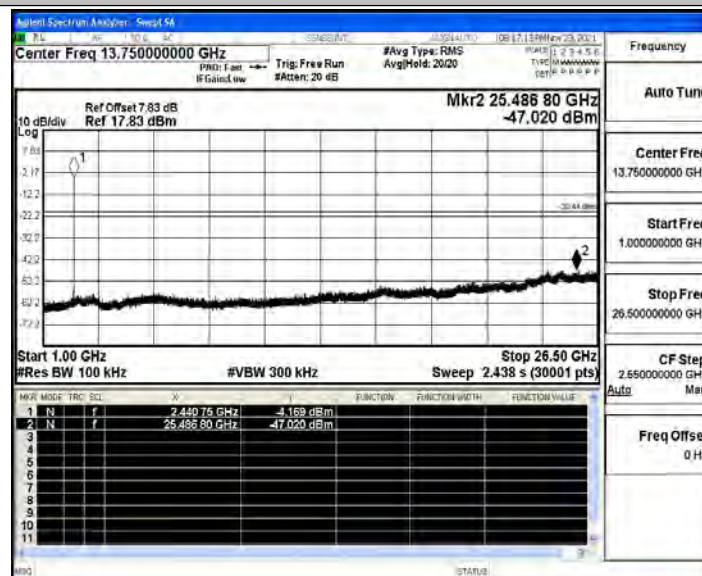
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

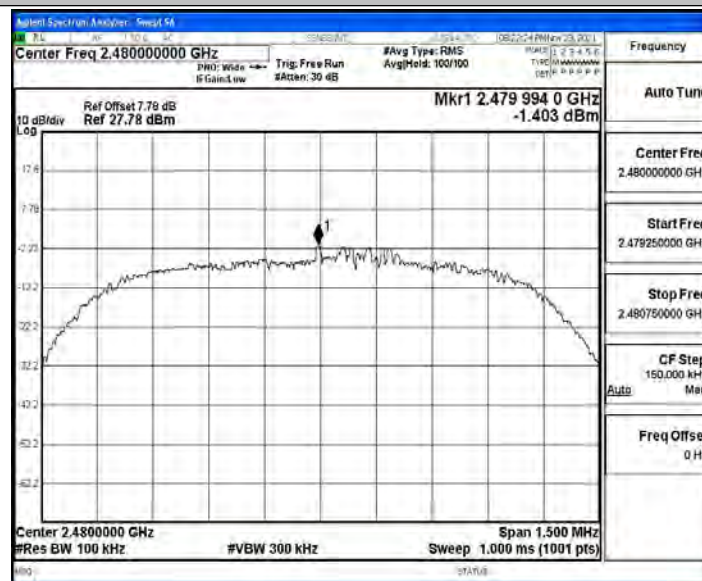


2DH5_Ant1_2441_1000~26500

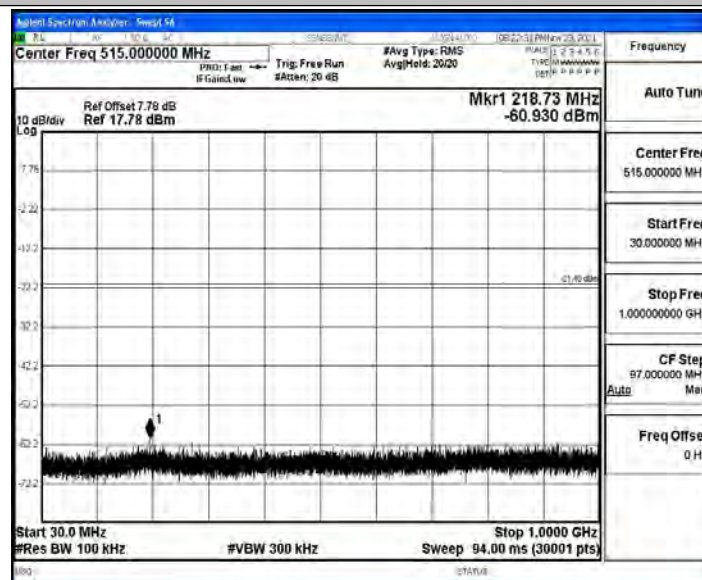




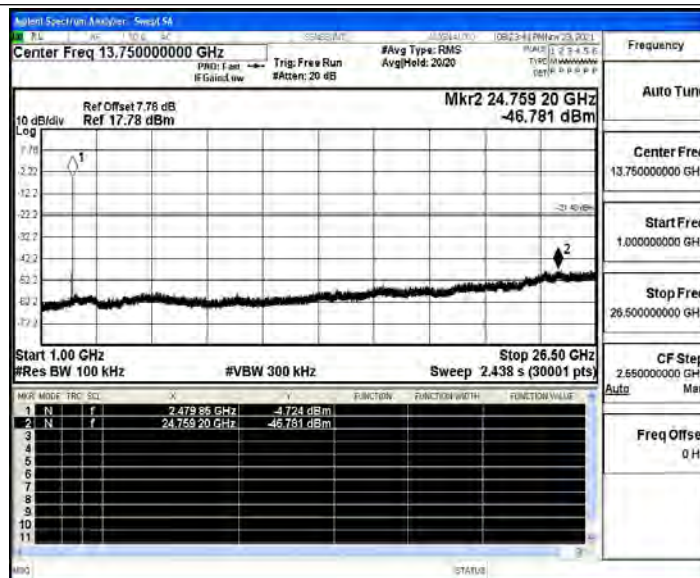
2DH5_Ant1_2480_0~Reference



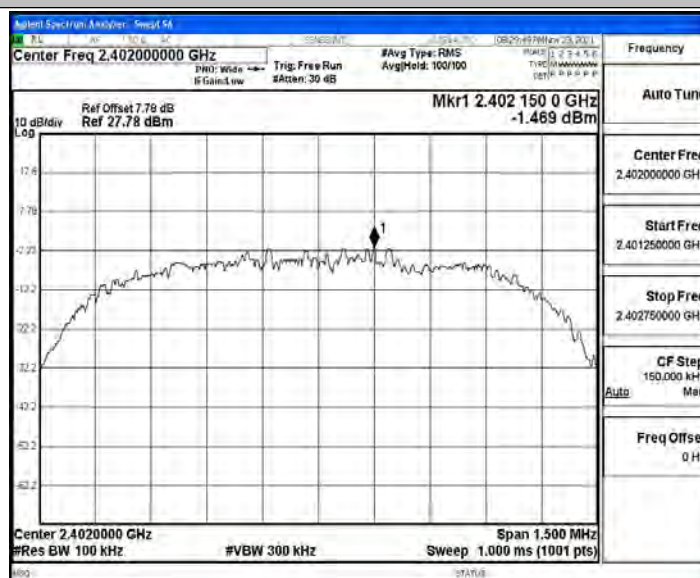
2DH5_Ant1_2480_30~1000



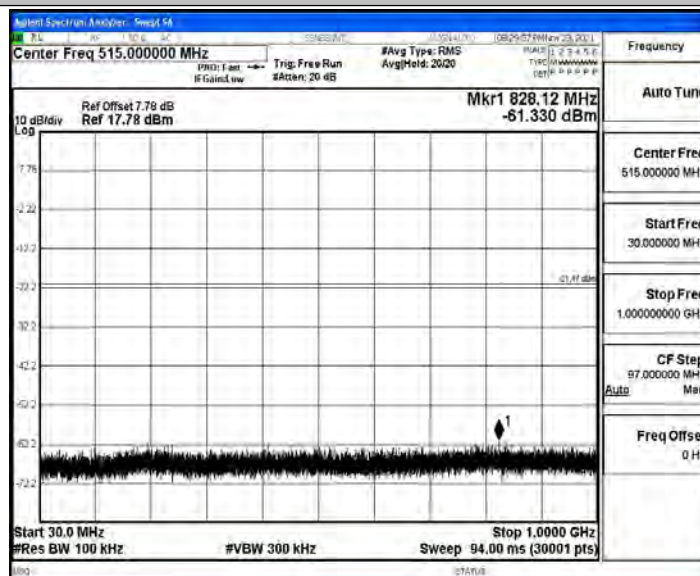
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

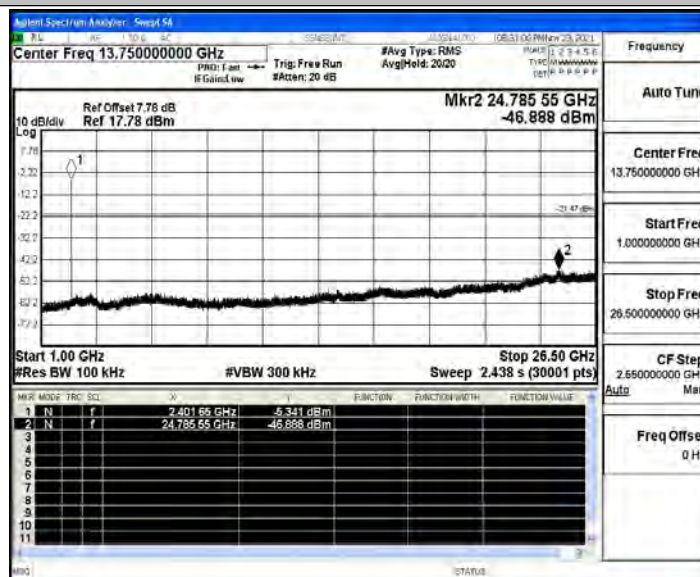


3DH5_Ant1_2402_30~1000

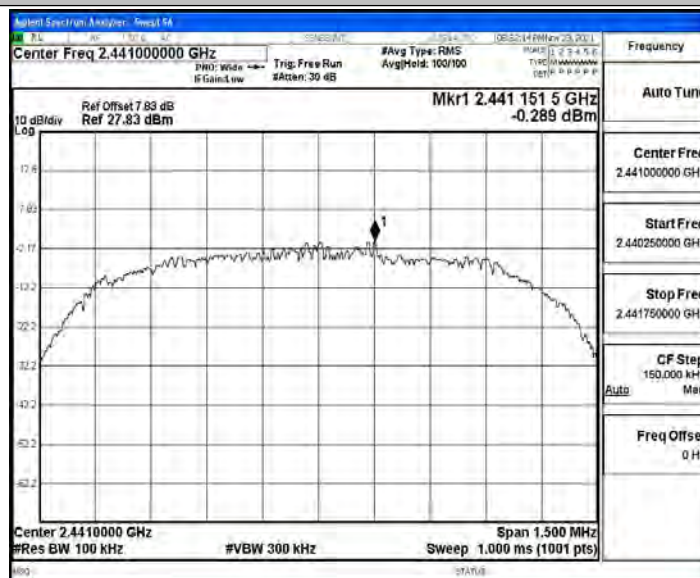




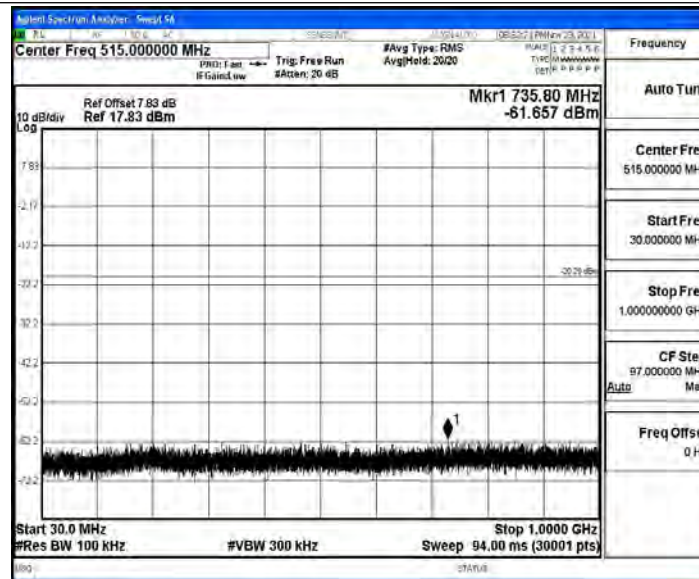
3DH5_Ant1_2402_1000~26500



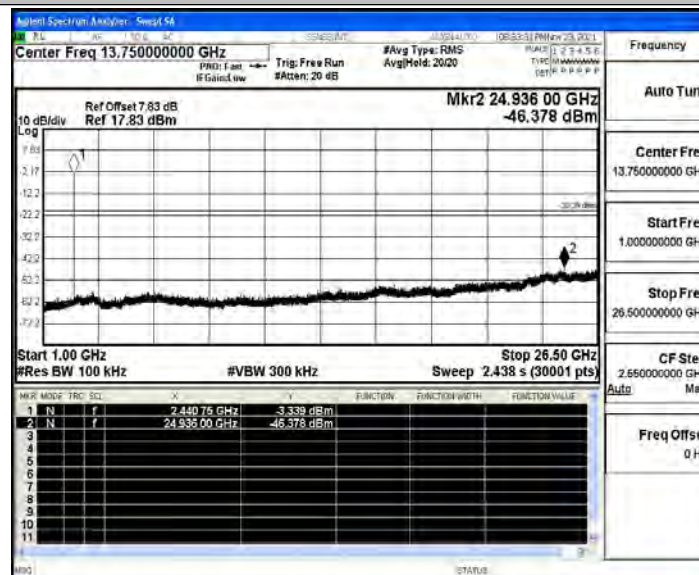
3DH5_Ant1_2441_0~Reference



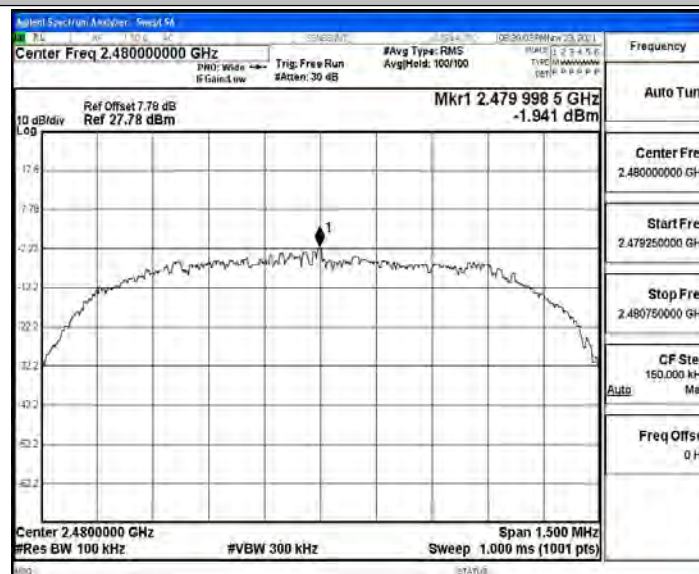
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

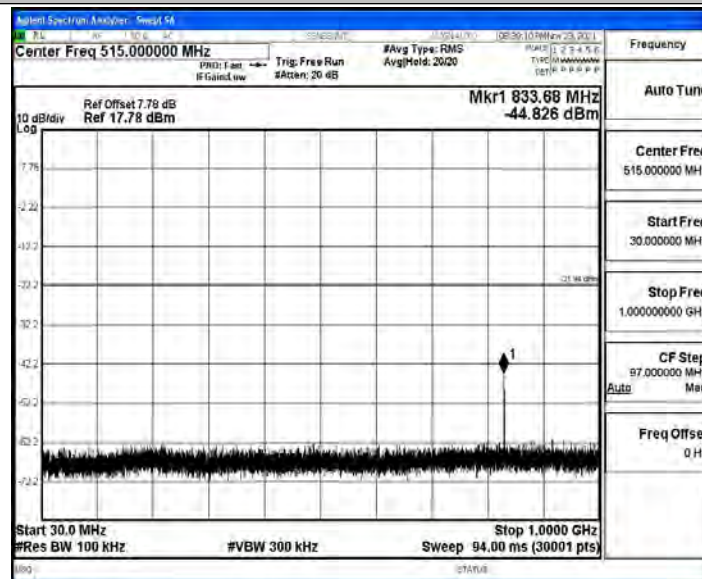


3DH5_Ant1_2480_0~Reference

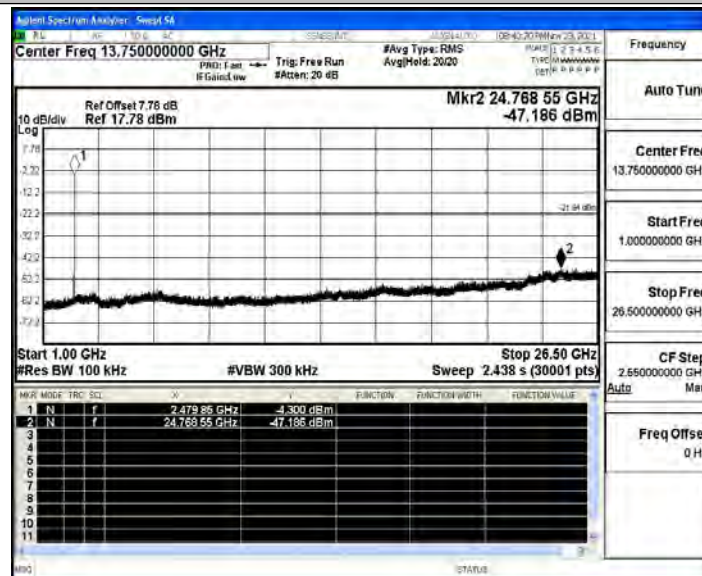




3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500





A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.9	≤-41.20	46.30	≤54	PASS
				AV	2388.305	-48.39	≤-41.20	46.81	≤54	PASS
				AV	2390.000	-48.58	≤-41.20	46.62	≤54	PASS
				Peak	2310.000	-39.29	≤-21.20	55.91	≤74	PASS
				Peak	2385.470	-37.24	≤-21.20	57.96	≤74	PASS
				Peak	2390.000	-40.73	≤-21.20	54.47	≤74	PASS
		High	2480	AV	2483.500	-47.84	≤-41.20	47.36	≤54	PASS
				AV	2496.480	-47.72	≤-41.20	47.48	≤54	PASS
				AV	2500.000	-47.99	≤-41.20	47.21	≤54	PASS
				Peak	2483.500	-40.12	≤-21.20	55.08	≤74	PASS
				Peak	2499.360	-38.17	≤-21.20	57.03	≤74	PASS
				Peak	2500.000	-39.11	≤-21.20	56.09	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.43	≤-21.20	54.77	≤74	PASS
				Peak	2375.075	-37.95	≤-21.20	57.25	≤74	PASS
				Peak	2390.000	-39.53	≤-21.20	55.67	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-38.84	≤-21.20	56.36	≤74	PASS
				Peak	2487.600	-37.52	≤-21.20	57.68	≤74	PASS
				Peak	2500.000	-39.24	≤-21.20	55.96	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.76	≤-41.20	46.44	≤54	PASS
				AV	2382.110	-48.4	≤-41.20	46.80	≤54	PASS
				AV	2390.000	-48.55	≤-41.20	46.65	≤54	PASS
				Peak	2310.000	-39.72	≤-21.20	55.48	≤74	PASS
				Peak	2314.070	-37.82	≤-21.20	57.38	≤74	PASS
				Peak	2390.000	-39.76	≤-21.20	55.44	≤74	PASS
		High	2480	AV	2483.500	-47.84	≤-41.20	47.36	≤54	PASS
				AV	2483.520	-47.84	≤-41.20	47.36	≤54	PASS
				AV	2500.000	-47.98	≤-41.20	47.22	≤54	PASS
				Peak	2483.500	-39.51	≤-21.20	55.69	≤74	PASS
				Peak	2489.360	-37.38	≤-21.20	57.82	≤74	PASS
				Peak	2500.000	-39.73	≤-21.20	55.47	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.56	≤-21.20	54.64	≤74	PASS
				Peak	2380.640	-38.05	≤-21.20	57.15	≤74	PASS
				Peak	2390.000	-39.57	≤-21.20	55.63	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-39.03	≤-21.20	56.17	≤74	PASS
				Peak	2484.720	-38.39	≤-21.20	56.81	≤74	PASS
				Peak	2500.000	-39.83	≤-21.20	55.37	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.76	≤-41.20	46.44	≤54	PASS



				AV	2385.050	-48.42	≤ -41.20	46.78	≤ 54	PASS
				AV	2390.000	-48.44	≤ -41.20	46.76	≤ 54	PASS
				Peak	2310.000	-41.07	≤ -21.20	54.13	≤ 74	PASS
				Peak	2356.910	-38.2	≤ -21.20	57.00	≤ 74	PASS
				Peak	2390.000	-40.48	≤ -21.20	54.72	≤ 74	PASS
		High	2480	AV	2483.500	-47.82	≤ -41.20	47.38	≤ 54	PASS
				AV	2495.280	-47.8	≤ -41.20	47.40	≤ 54	PASS
				AV	2500.000	-47.93	≤ -41.20	47.27	≤ 54	PASS
				Peak	2483.500	-40.3	≤ -21.20	54.90	≤ 74	PASS
				Peak	2493.520	-37.96	≤ -21.20	57.24	≤ 74	PASS
				Peak	2500.000	-39.49	≤ -21.20	55.71	≤ 74	PASS
		Low	Hop_24 02	Peak	2310.000	-40.99	≤ -21.20	54.21	≤ 74	PASS
				Peak	2360.060	-38.35	≤ -21.20	56.85	≤ 74	PASS
				Peak	2390.000	-38.98	≤ -21.20	56.22	≤ 74	PASS
		High	Hop_24 80	Peak	2483.500	-38.5	≤ -21.20	56.70	≤ 74	PASS
				Peak	2493.040	-37.75	≤ -21.20	57.45	≤ 74	PASS
				Peak	2500.000	-39.46	≤ -21.20	55.74	≤ 74	PASS

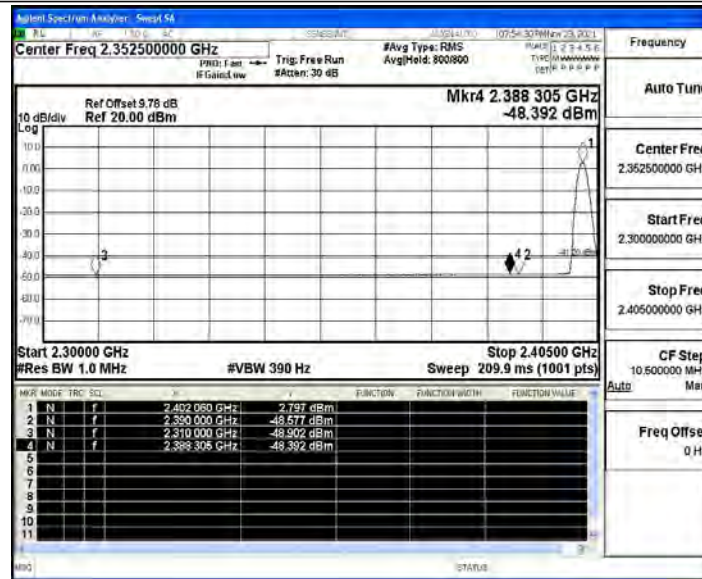
Note:

1. The Antenna Gain is compensated in the graph.
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.

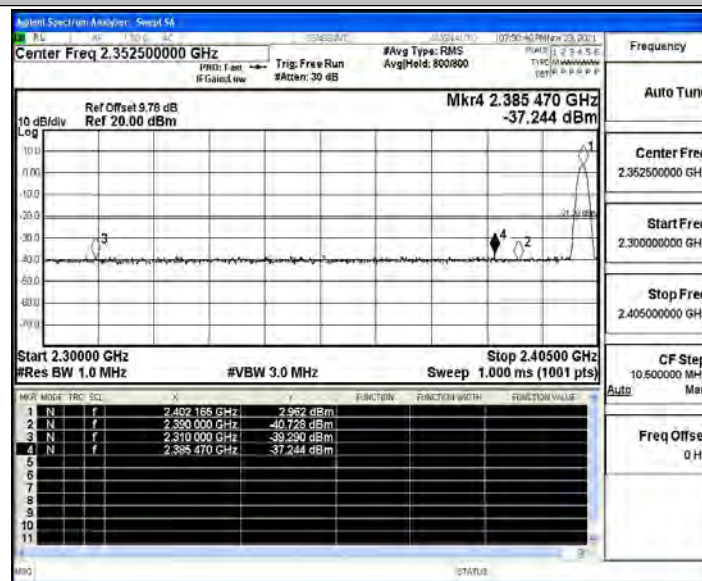


Test Graphs

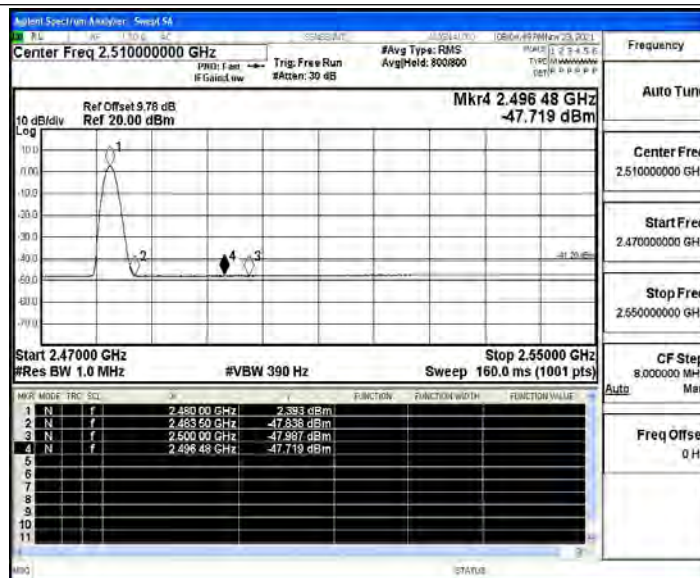
DH5_Ant1_Low_2402_AV



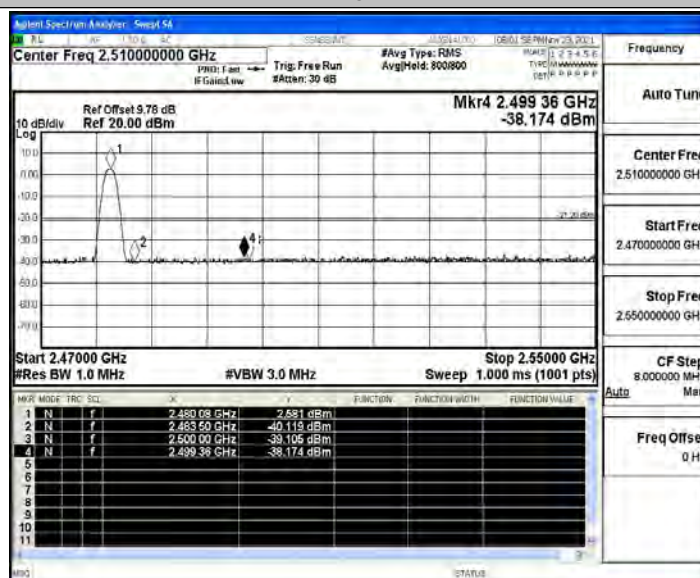
DH5_Ant1_Low_2402_Peak



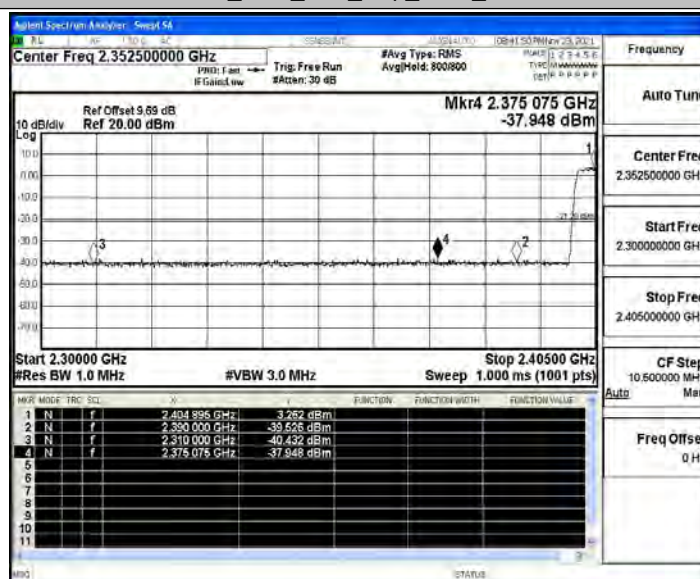
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

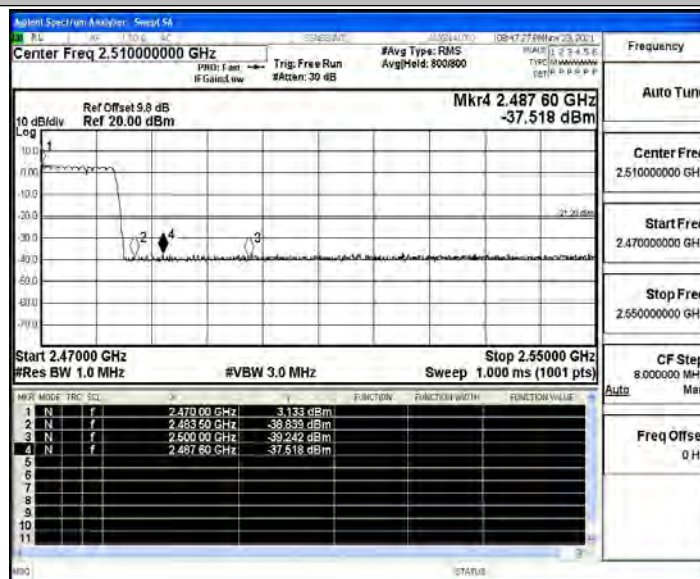


DH5_Ant1_Low_Hop_2402_Peak

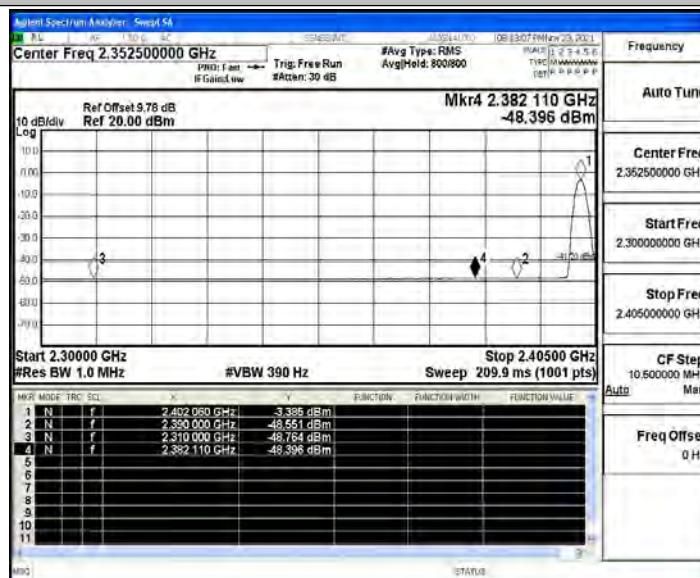




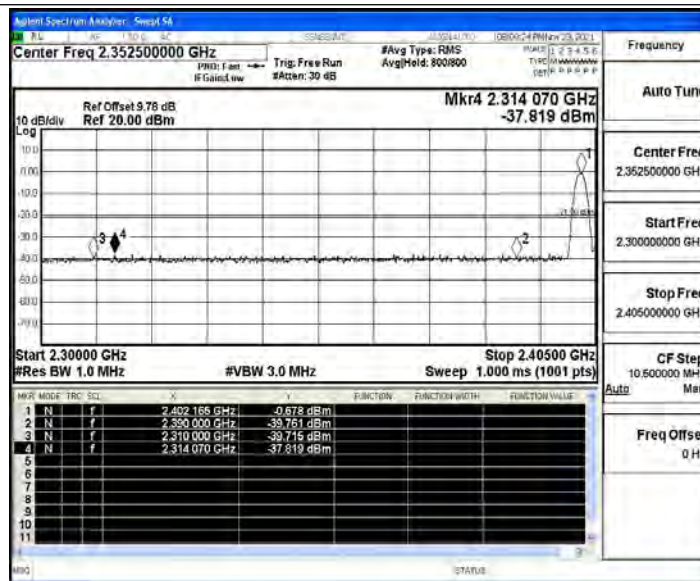
DH5_Ant1_High_Hop_2480_Peak



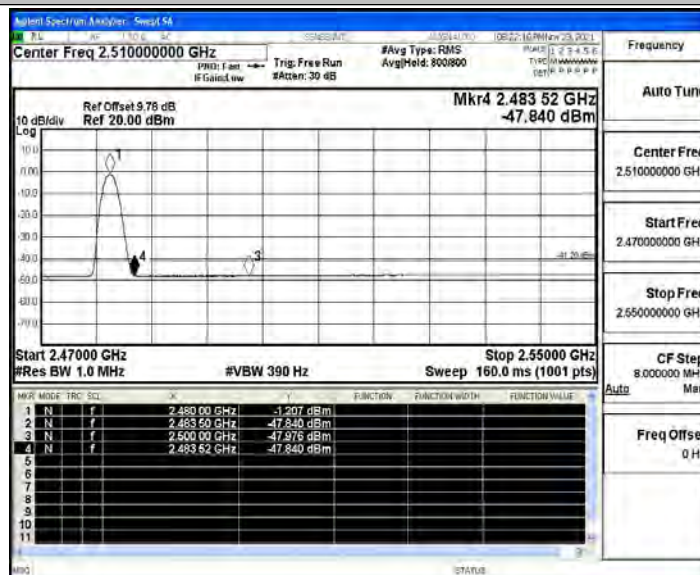
2DH5_Ant1_Low_2402_AV



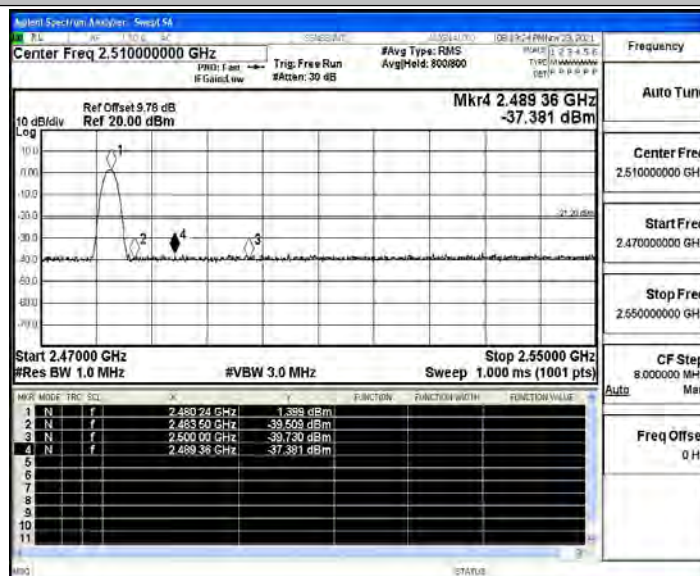
2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

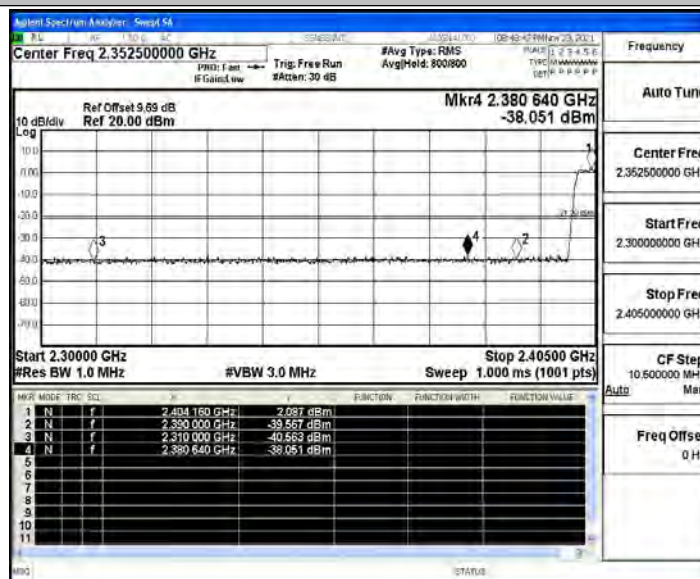


2DH5_Ant1_High_2480_Peak

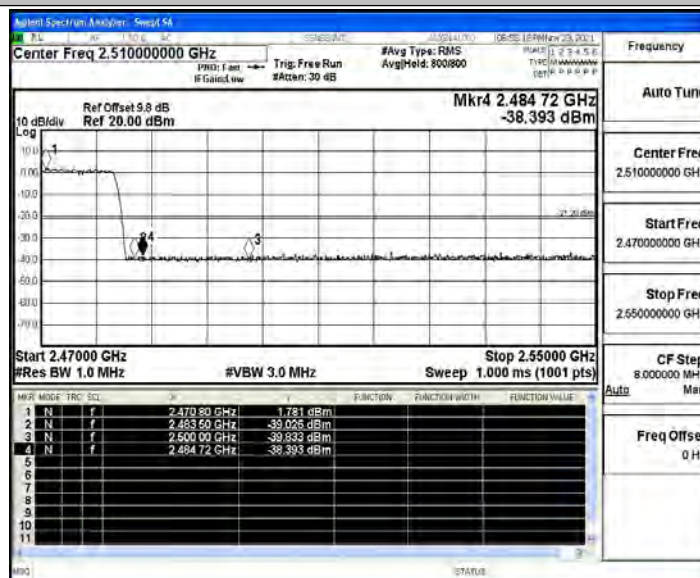




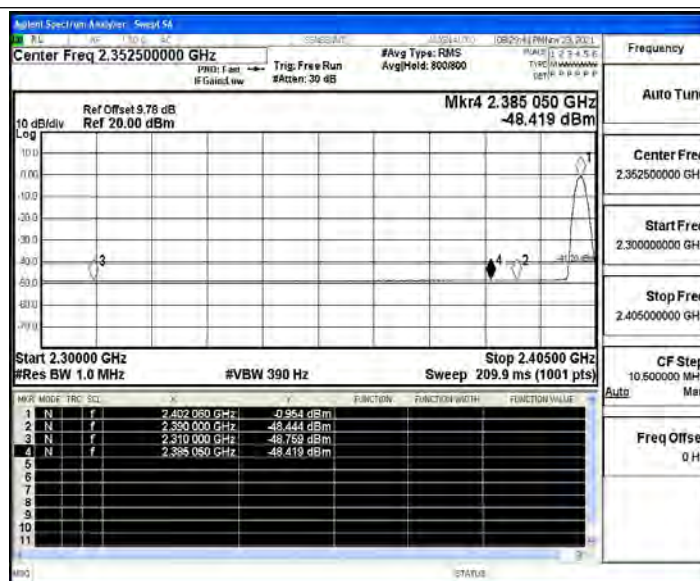
2DH5_Ant1_Low_Hop_2402_Peak



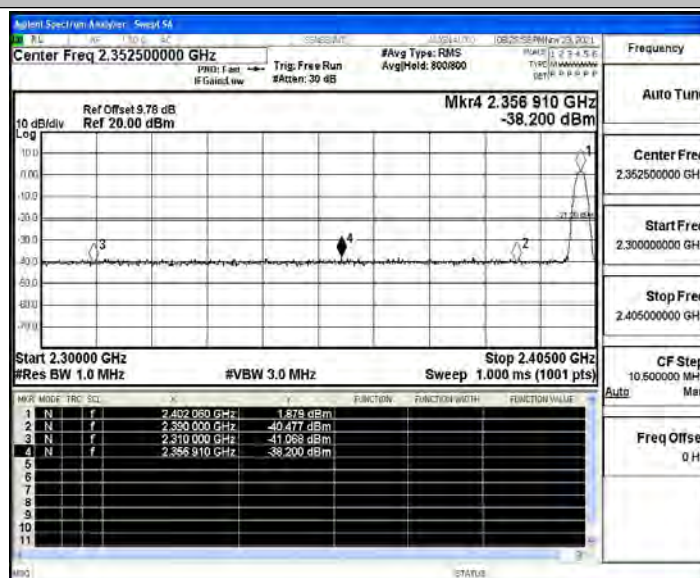
2DH5_Ant1_High_Hop_2480_Peak



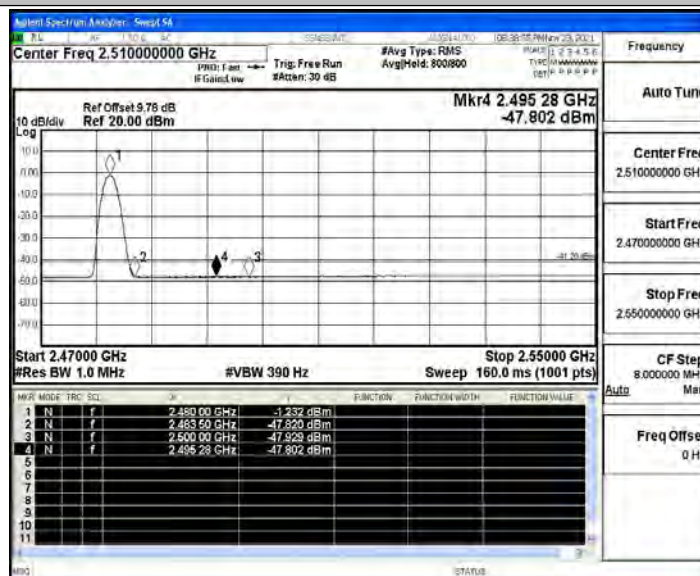
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak

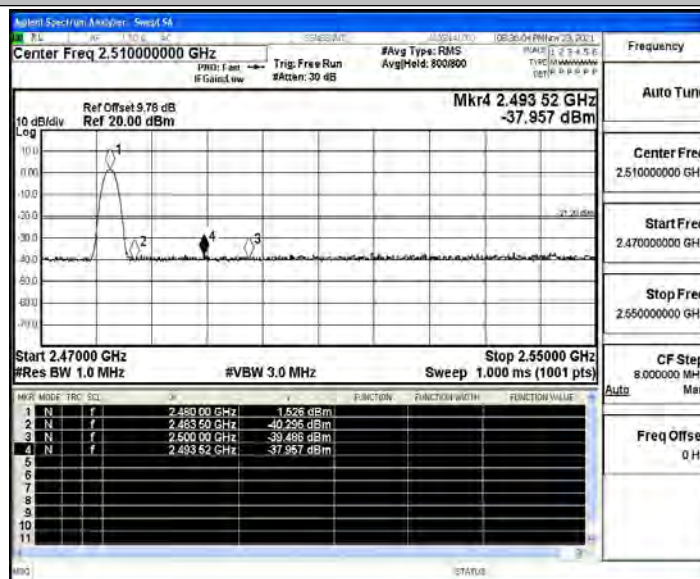


3DH5_Ant1_High_2480_AV

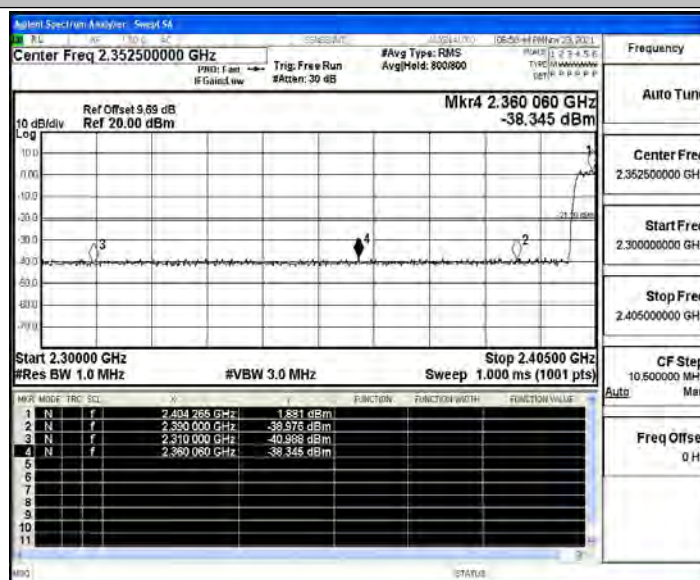




3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak



3DH5_Ant1_High_Hop_2480_Peak

