



Appendix A

RF Test Data for BT (Conducted Measurement)

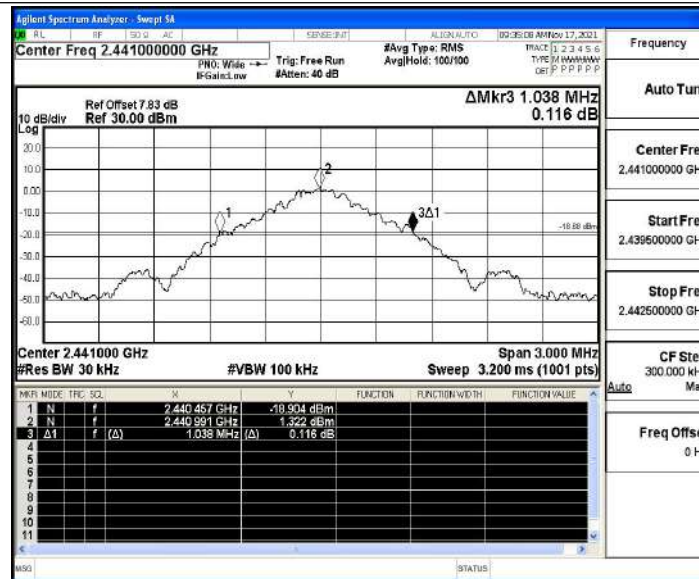
Product Name: 37 inch Soundbar with Amazon Alexa

Test Model: CAW-70940

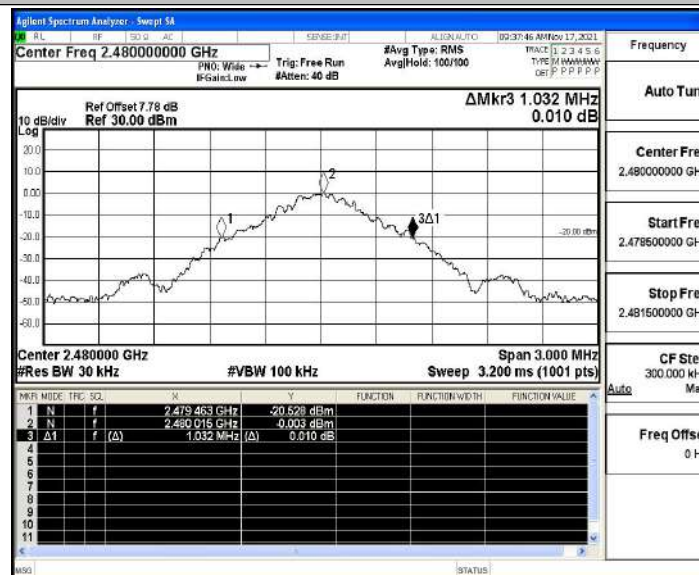
Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

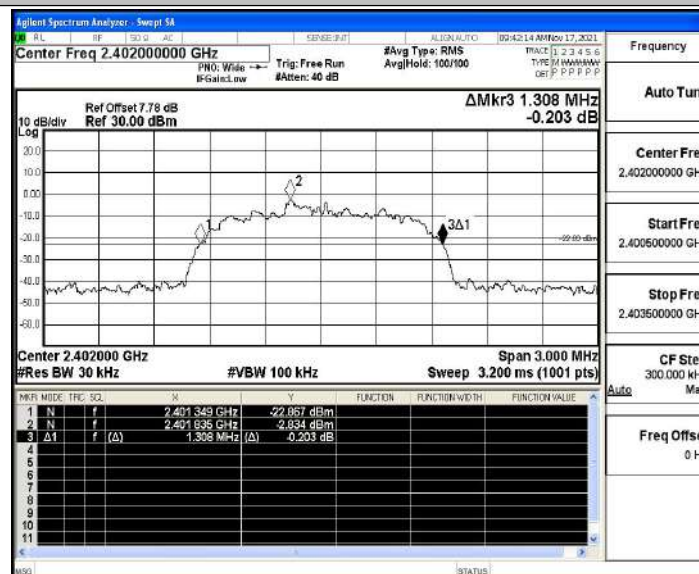




DH5_Ant1_2480

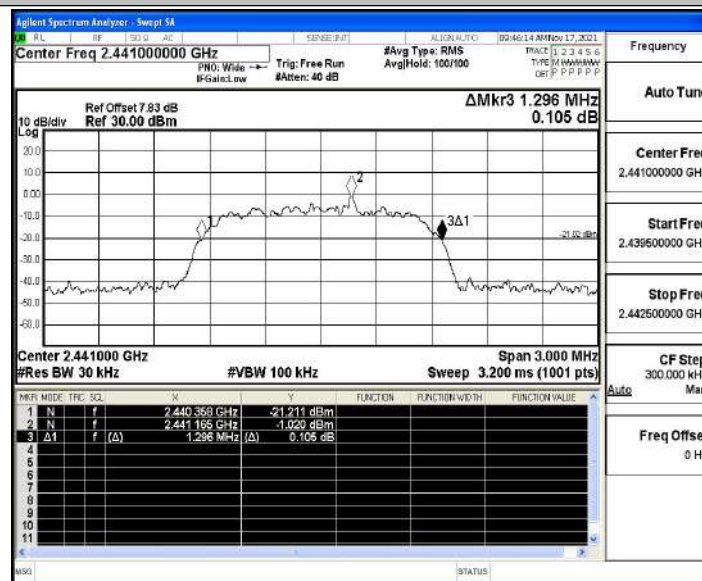


2DH5_Ant1_2402

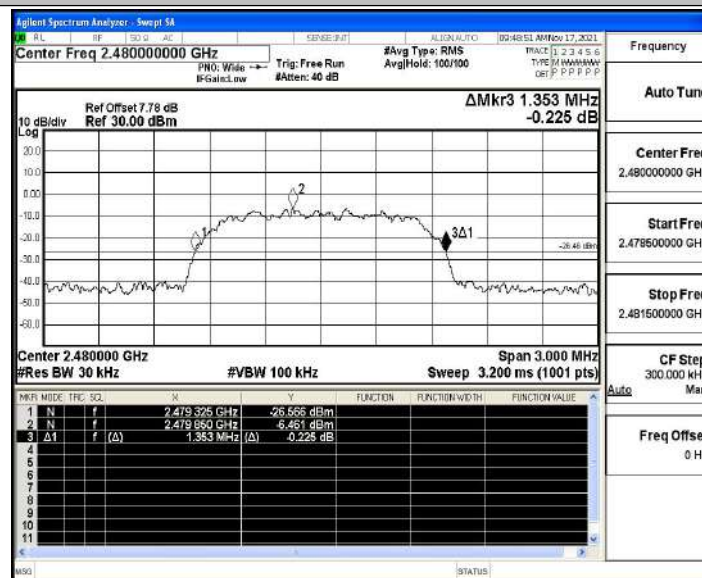




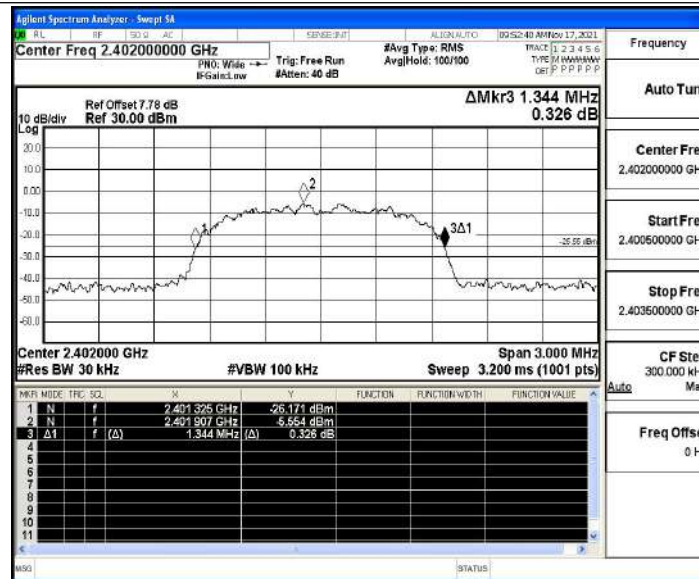
2DH5_Ant1_2441



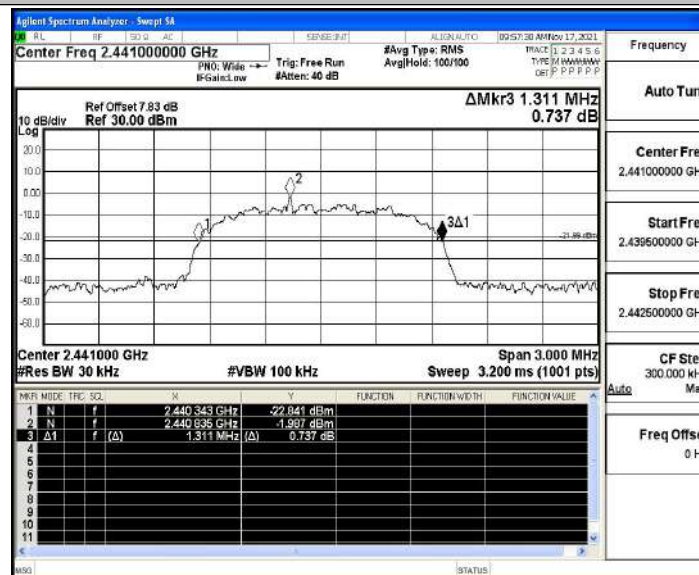
2DH5_Ant1_2480



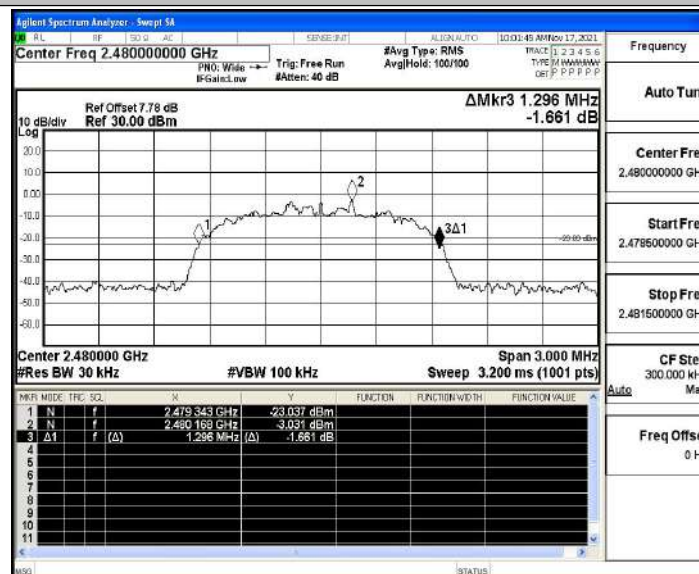
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



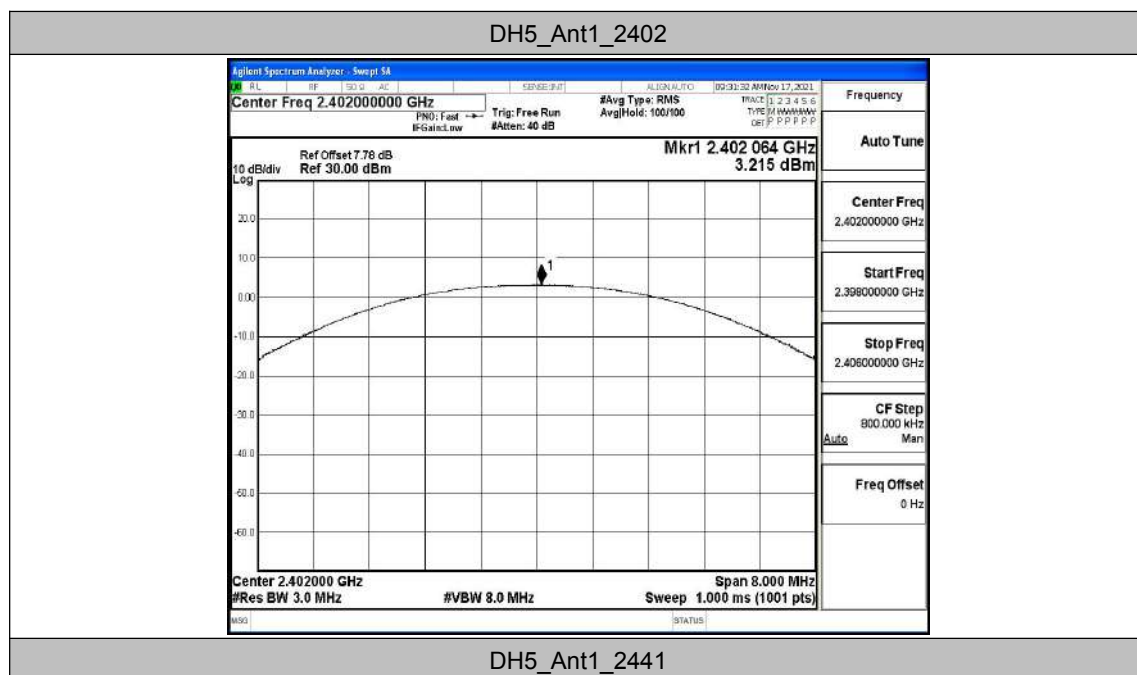


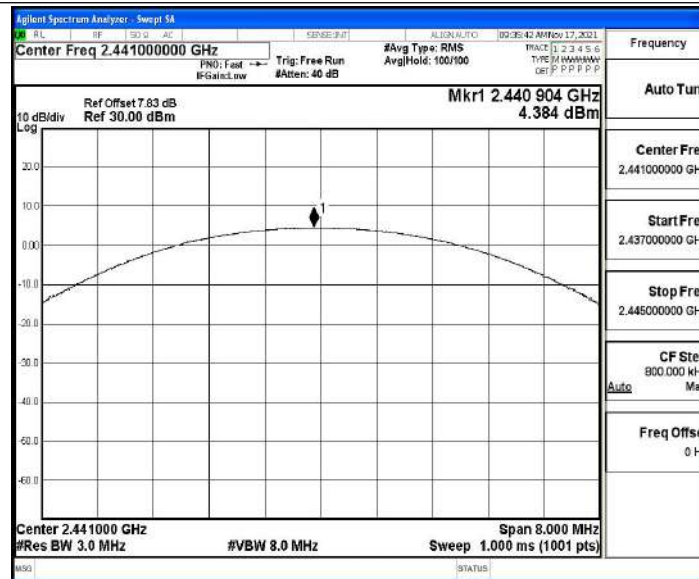
A.2 Maximum conducted output power

Test Result

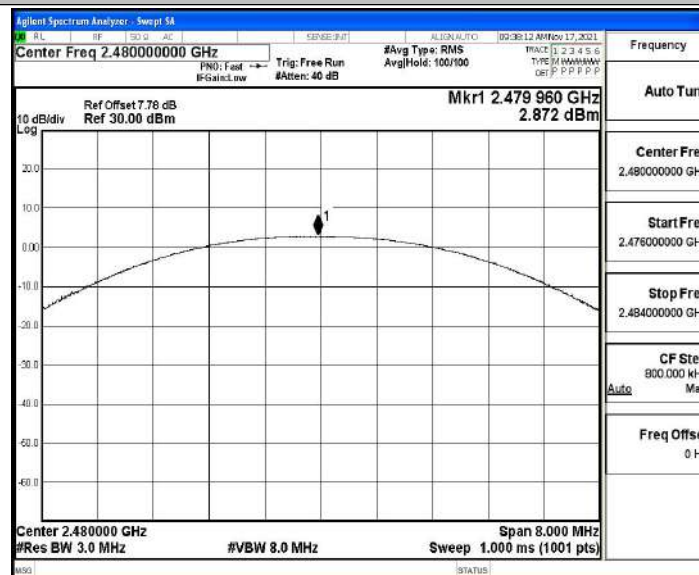
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.22	≤20.97	PASS
		2441	4.38	≤20.97	PASS
		2480	2.87	≤20.97	PASS
2DH5	Ant1	2402	2.41	≤20.97	PASS
		2441	3.5	≤20.97	PASS
		2480	2.01	≤20.97	PASS
3DH5	Ant1	2402	2.45	≤20.97	PASS
		2441	3.7	≤20.97	PASS
		2480	2.17	≤20.97	PASS

Test Graphs

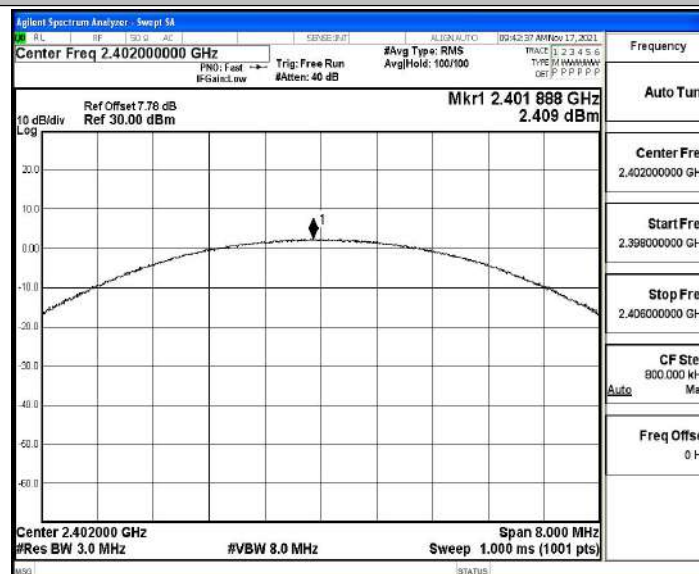




DH5_Ant1_2480

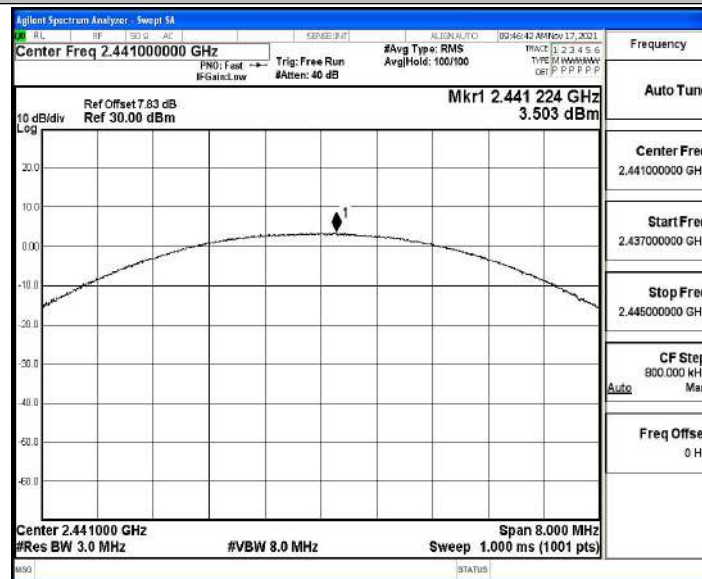


2DH5_Ant1_2402

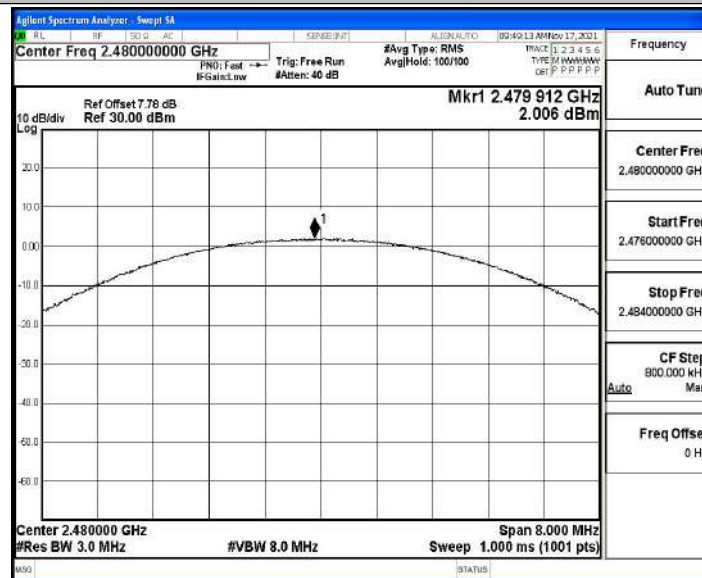




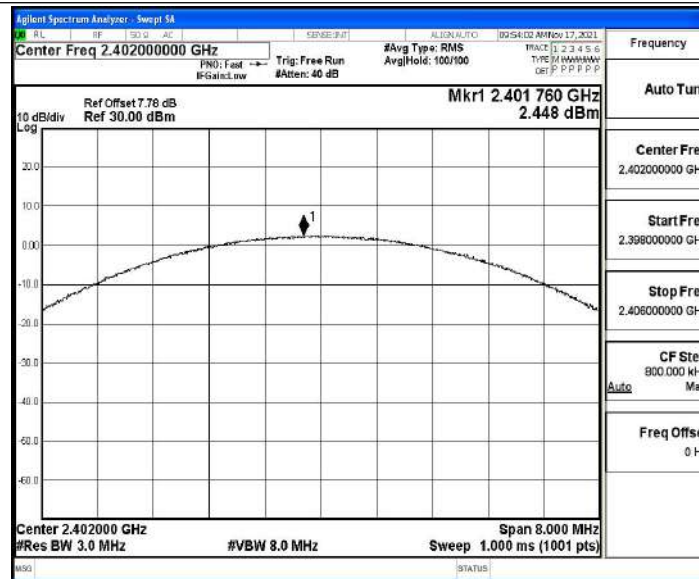
2DH5_Ant1_2441



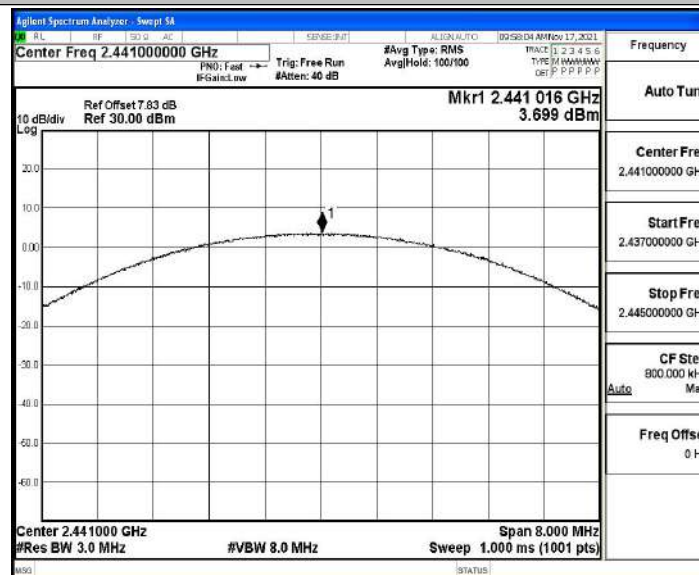
2DH5_Ant1_2480



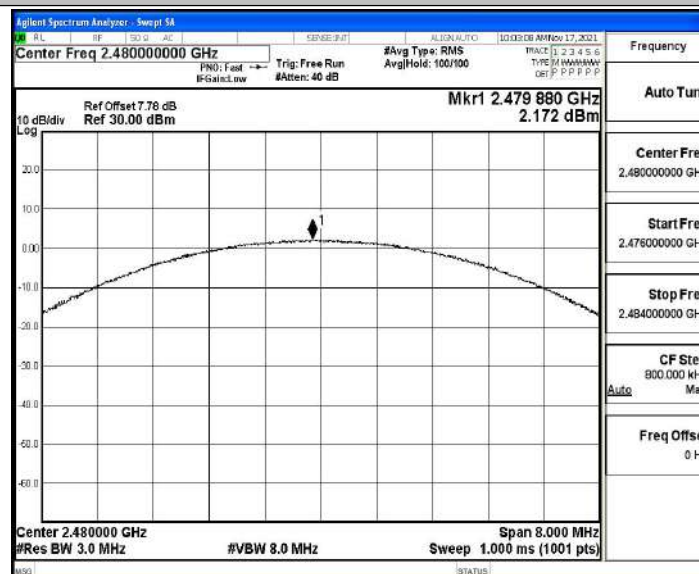
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



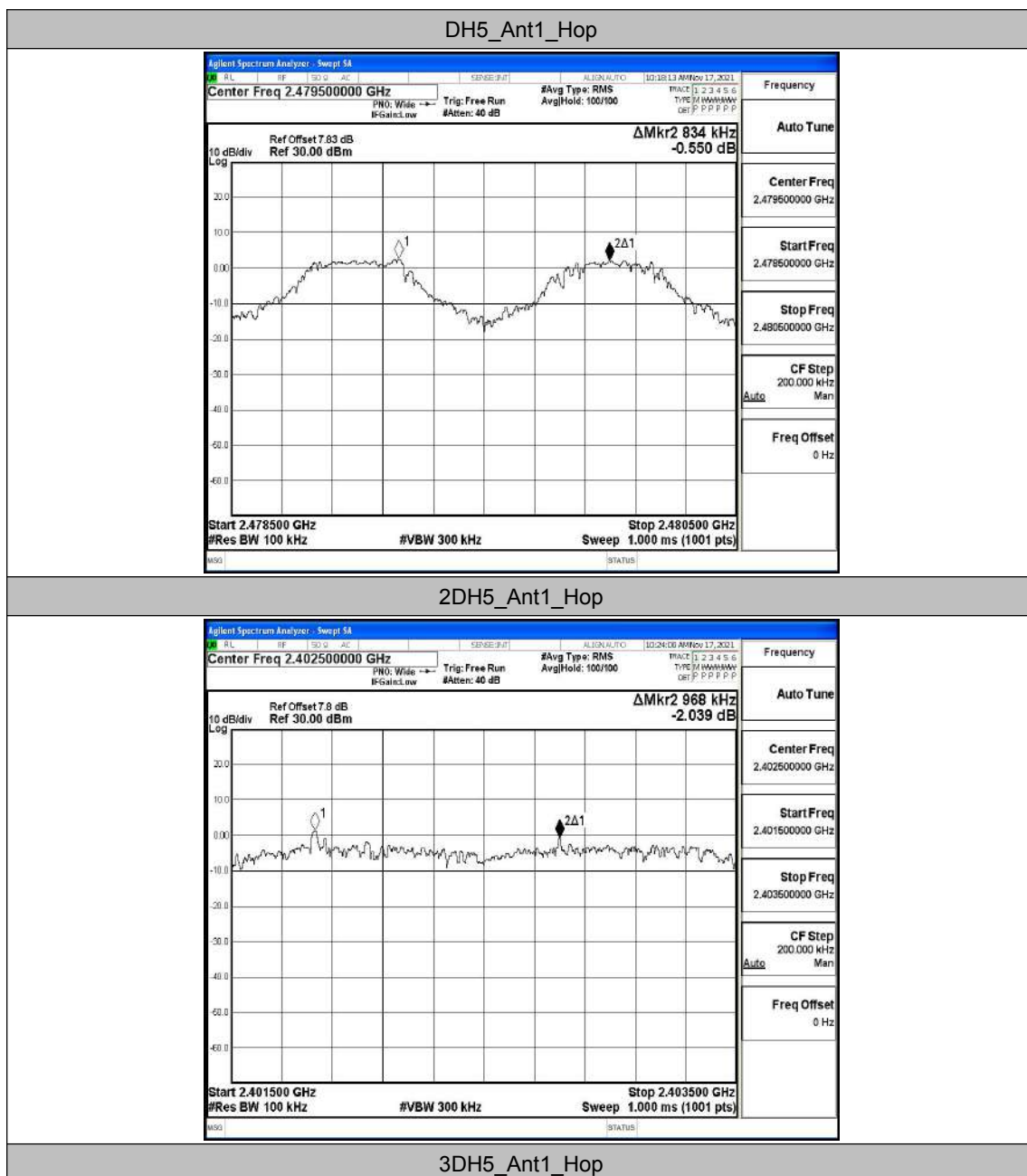


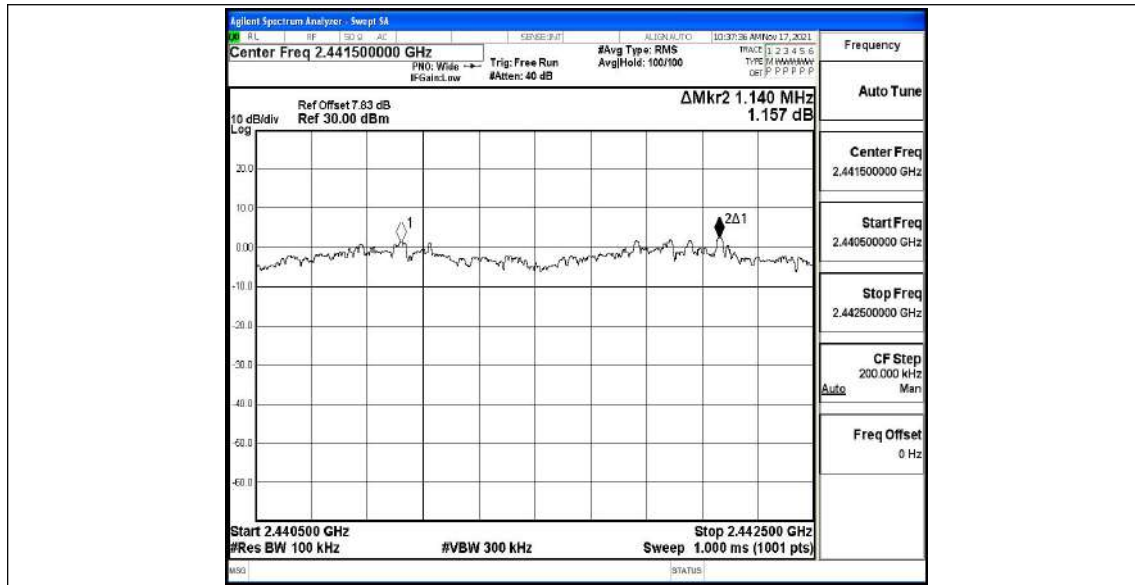
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.834	≥ 0.692	PASS
2DH5	Ant1	Hop	0.968	≥ 0.902	PASS
3DH5	Ant1	Hop	1.14	≥ 0.896	PASS

Test Graphs





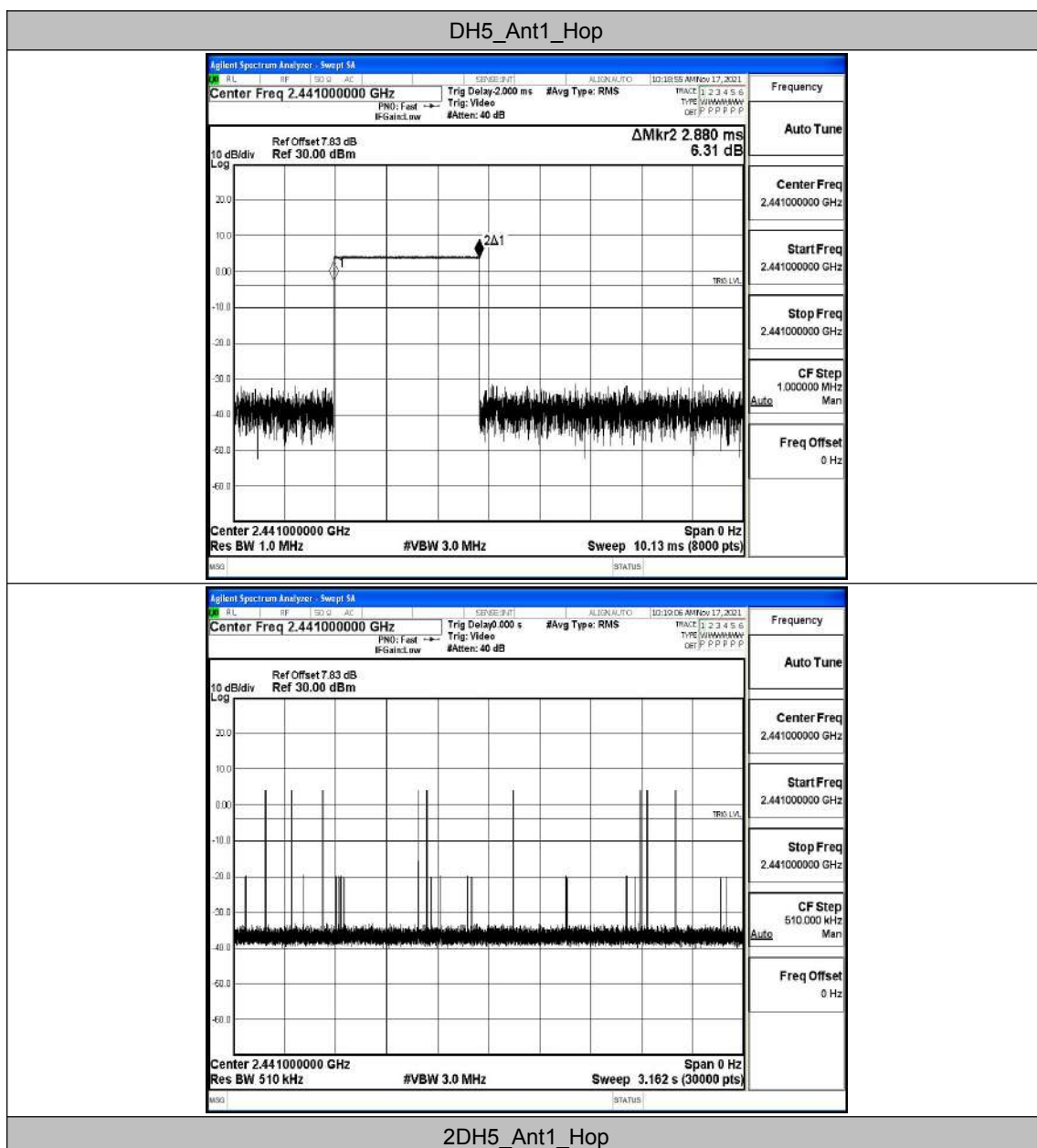


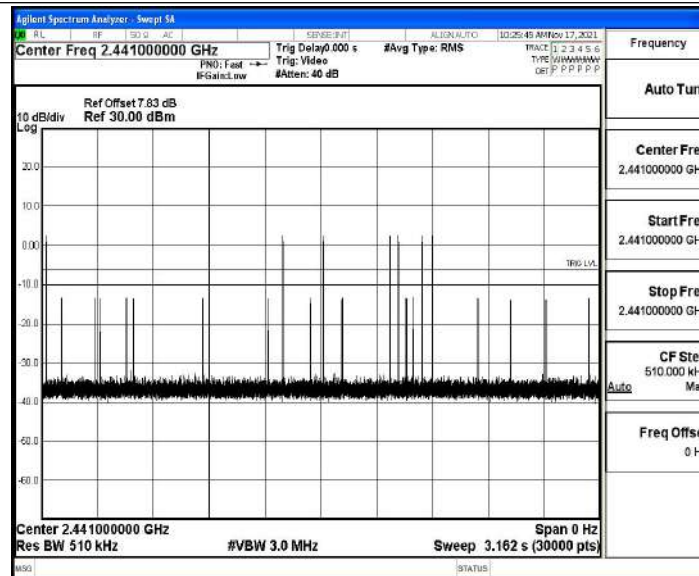
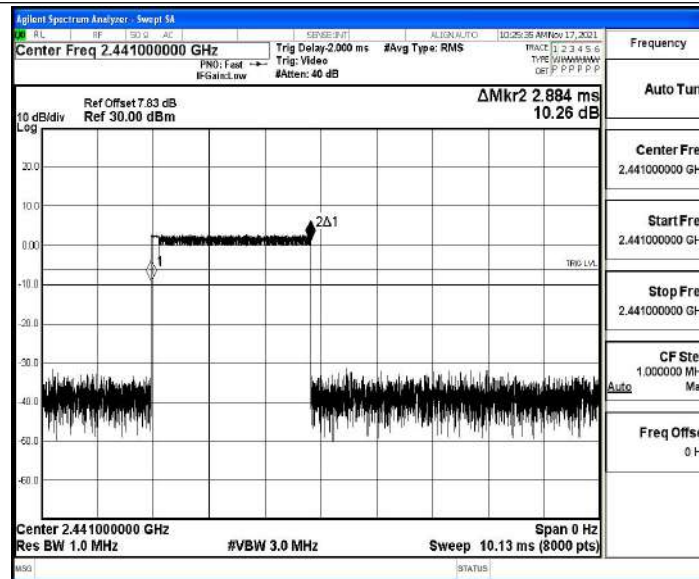
A.4 Time of occupancy

Test Result

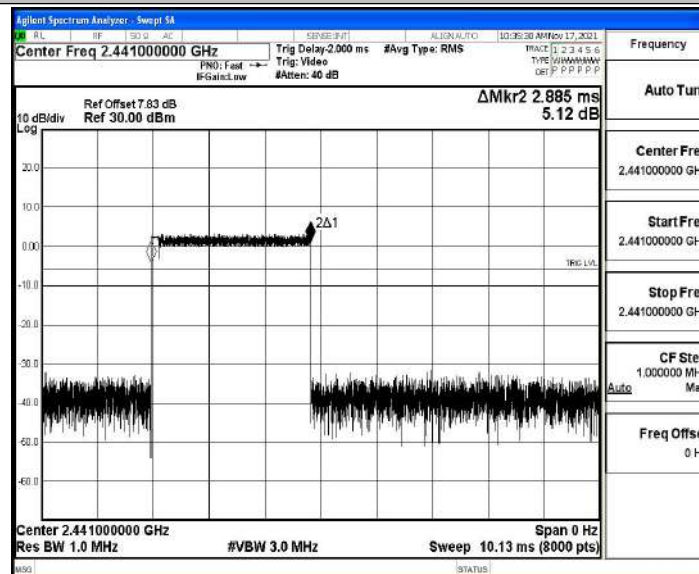
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
2DH5	Ant1	Hop	2.88	80	0.231	≤0.4	PASS
3DH5	Ant1	Hop	2.89	90	0.26	≤0.4	PASS

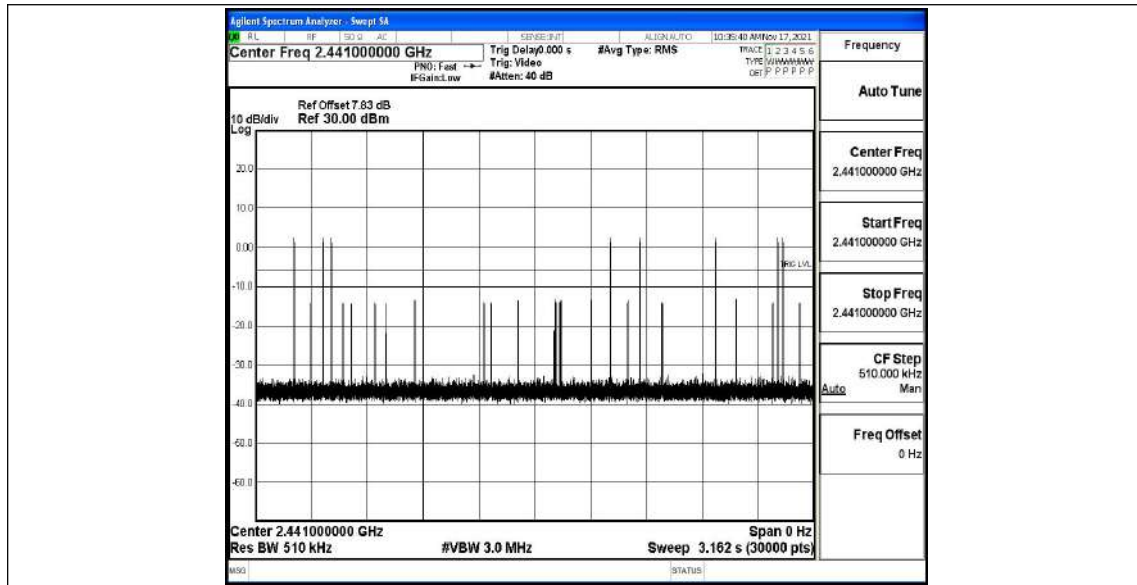
Test Graphs





3DH5_Ant1_Hop





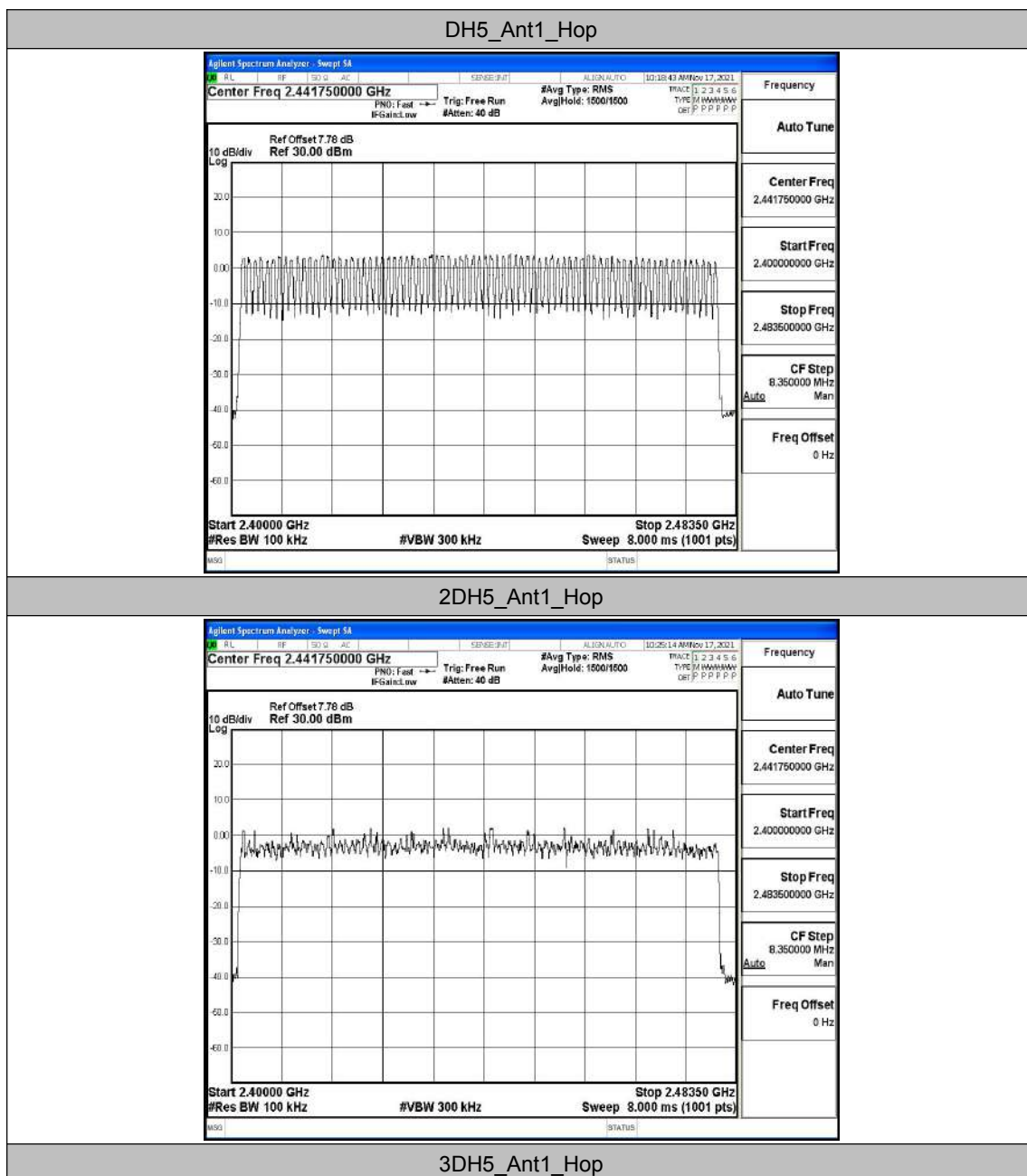


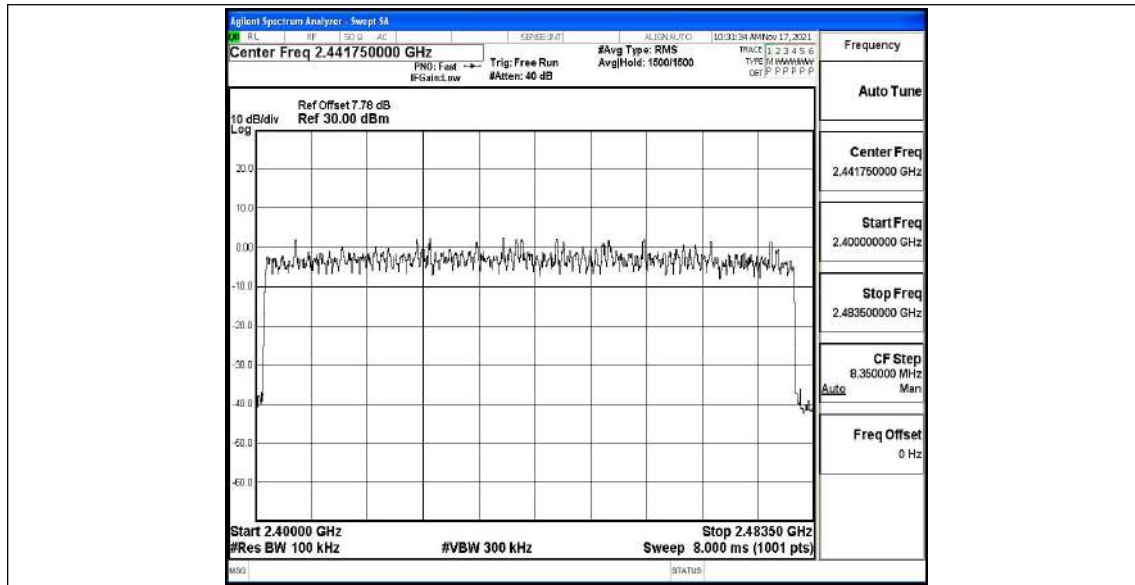
A.5 Number of hopping channels

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





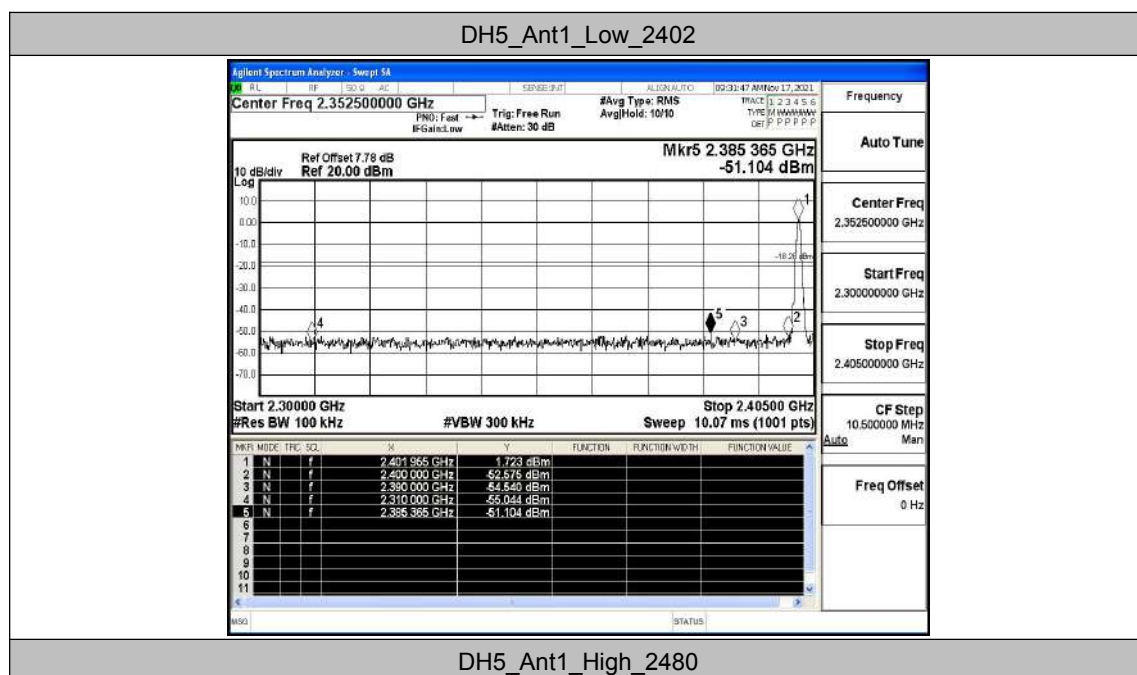


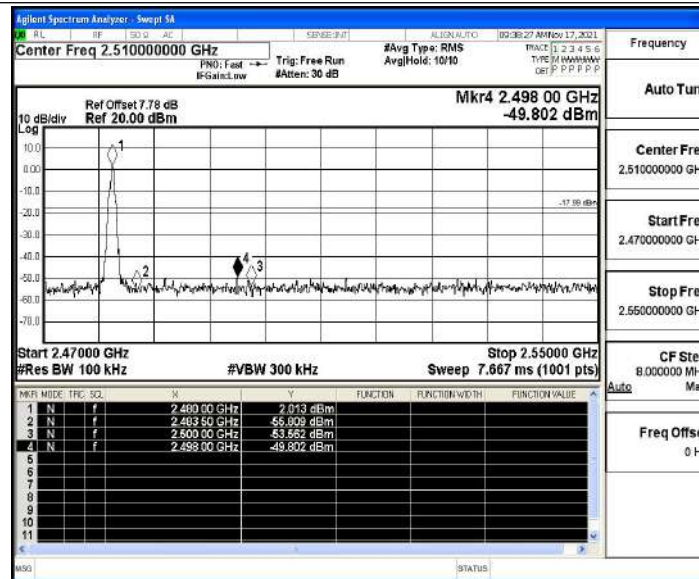
A.6 Band edge measurements

Test Result

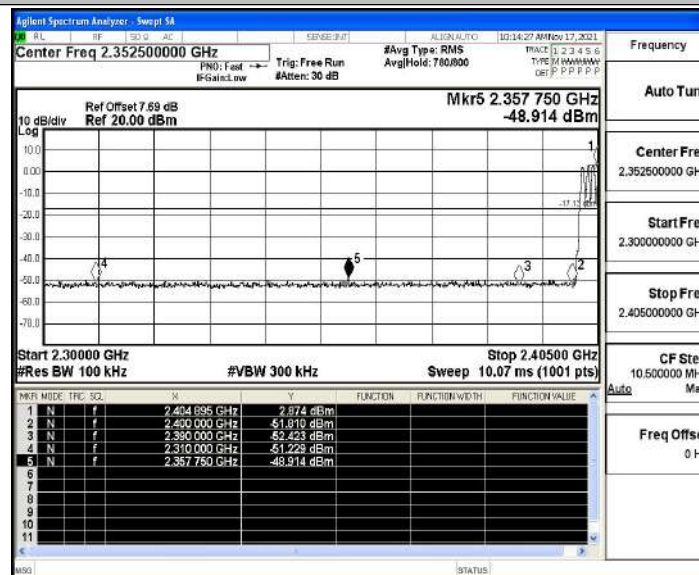
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.72	-51.1	≤-18.28	PASS
		High	2480	2.01	-49.8	≤-17.99	PASS
		Low	Hop_2402	2.87	-48.91	≤-17.13	PASS
		High	Hop_2480	2.59	-47.37	≤-17.41	PASS
2DH5	Ant1	Low	2402	-2.55	-51.2	≤-22.55	PASS
		High	2480	0.96	-49.91	≤-19.04	PASS
		Low	Hop_2402	-2.16	-49.91	≤-22.16	PASS
		High	Hop_2480	1.51	-42.91	≤-18.49	PASS
3DH5	Ant1	Low	2402	-3.53	-51.08	≤-23.53	PASS
		High	2480	0.68	-50.75	≤-19.32	PASS
		Low	Hop_2402	-1.09	-49.77	≤-21.09	PASS
		High	Hop_2480	1.28	-46.2	≤-18.72	PASS

Test Graphs

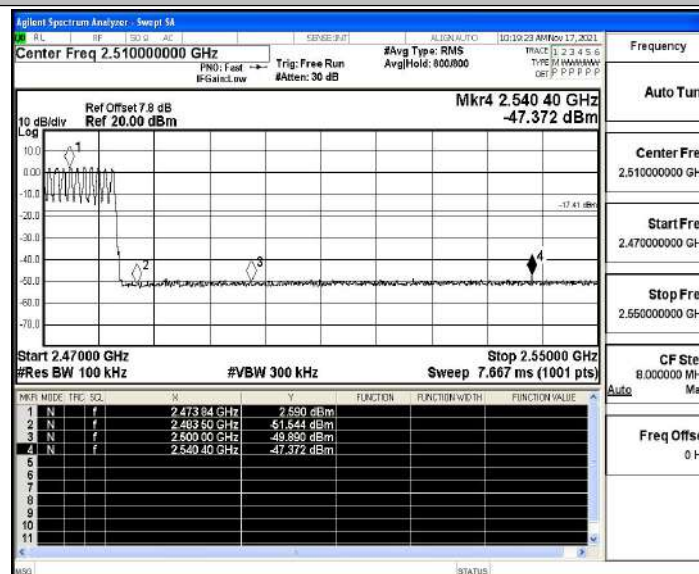




DH5_Ant1_Low_Hop_2402

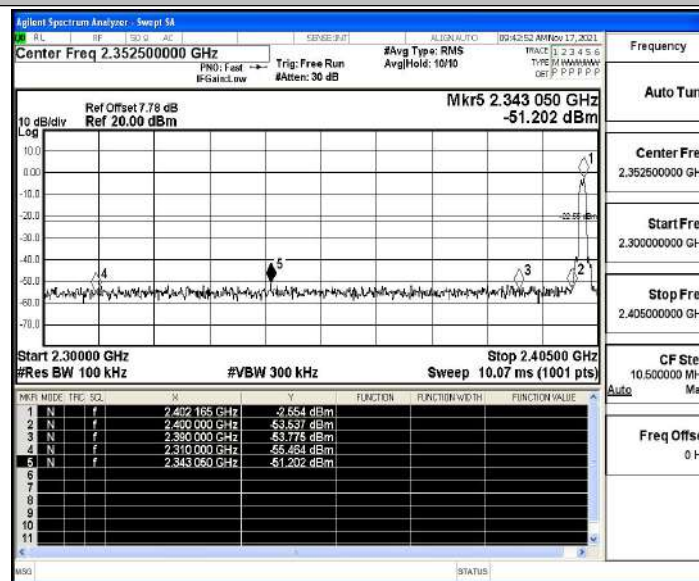


DH5_Ant1_High_Hop_2480

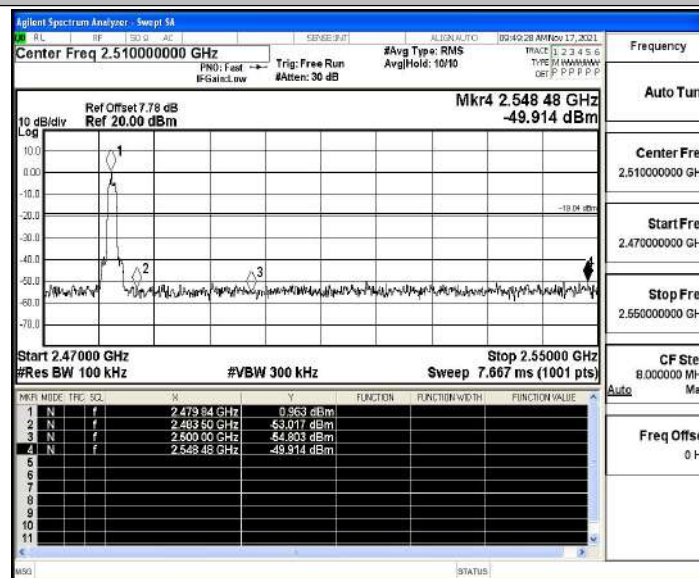




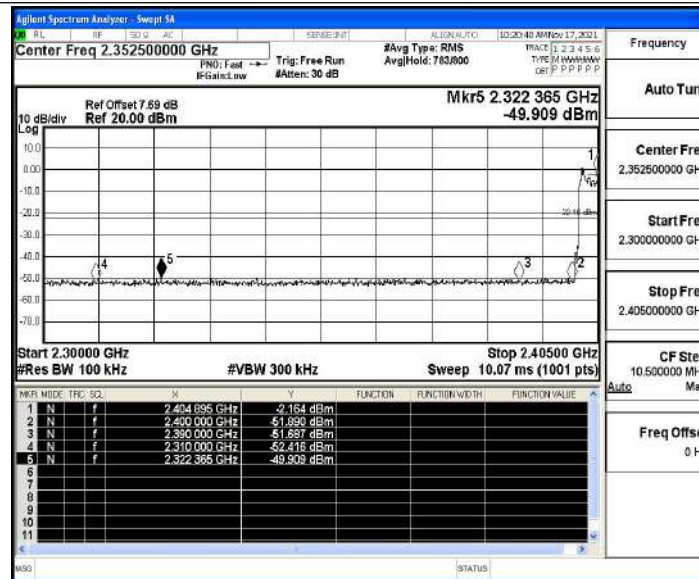
2DH5_Ant1_Low_2402



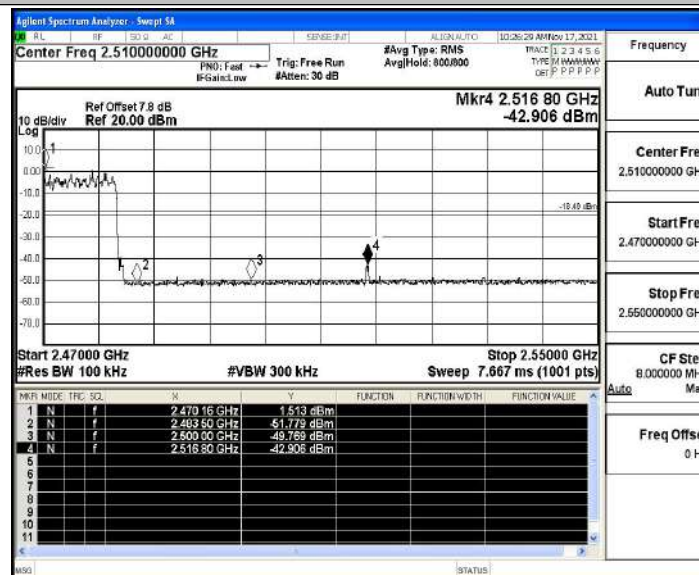
2DH5_Ant1_High_2480



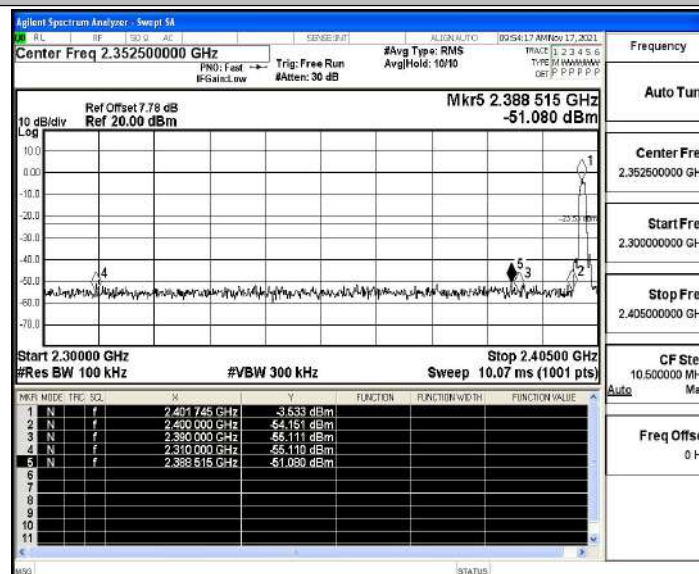
2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

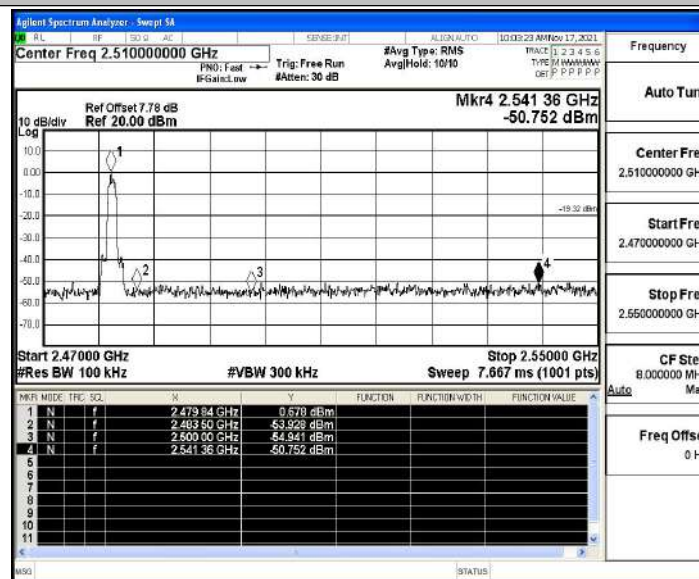


3DH5_Ant1_Low_2402

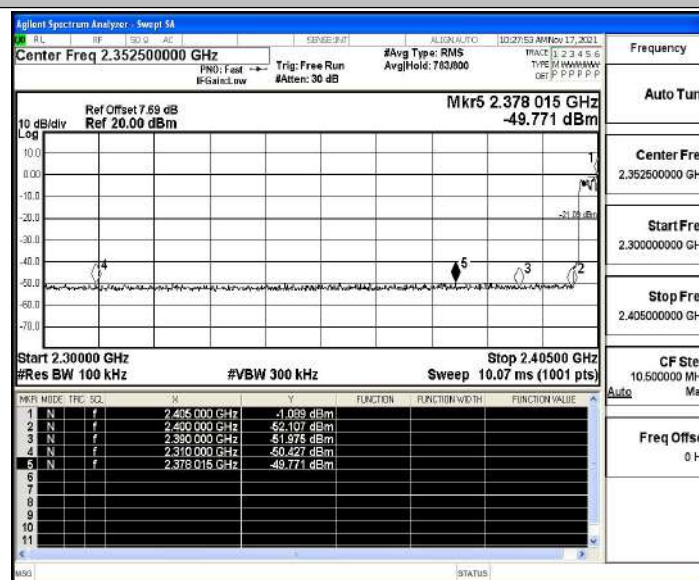




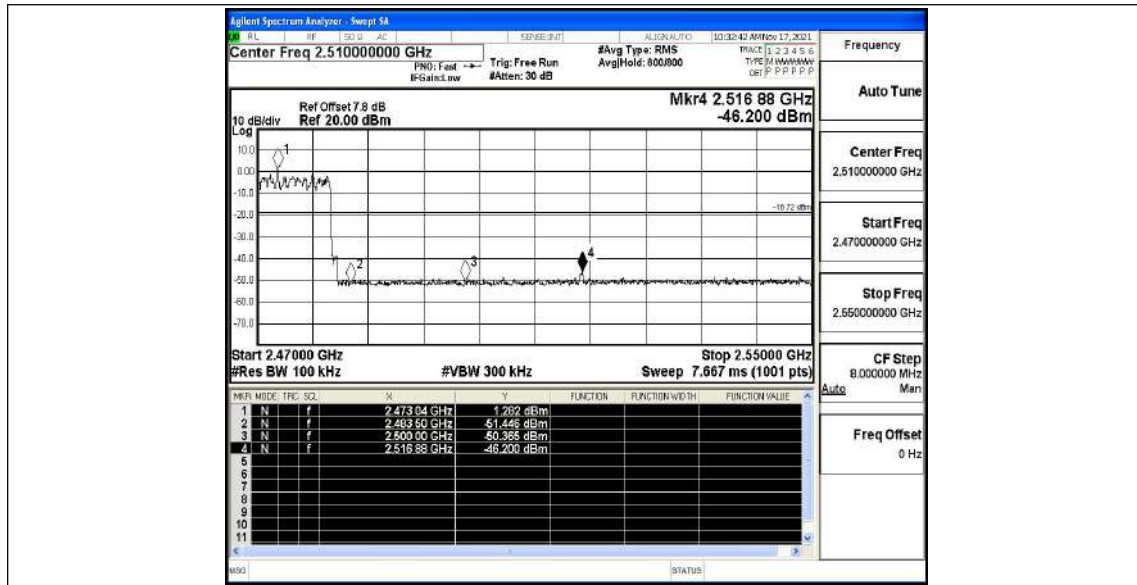
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

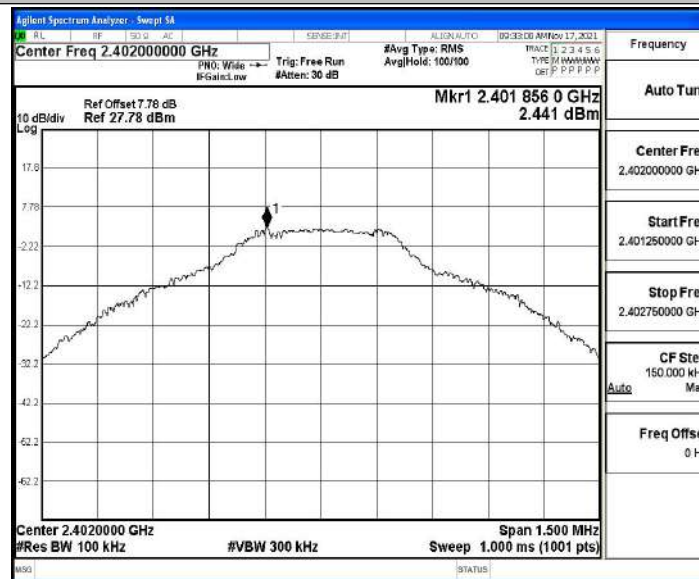
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.44	2.44	---	PASS
			30~1000	2.44	-62.26	≤-17.56	PASS
			1000~26500	2.44	-47.27	≤-17.56	PASS
		2441	Reference	3.97	3.97	---	PASS
			30~1000	3.97	-61.06	≤-16.03	PASS
			1000~26500	3.97	-46.49	≤-16.03	PASS
		2480	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-61.61	≤-18.1	PASS
			1000~26500	1.90	-46.58	≤-18.1	PASS
2DH5	Ant1	2402	Reference	1.15	1.15	---	PASS
			30~1000	1.15	-61.86	≤-18.85	PASS
			1000~26500	1.15	-46.31	≤-18.85	PASS
		2441	Reference	2.25	2.25	---	PASS
			30~1000	2.25	-61.66	≤-17.75	PASS
			1000~26500	2.25	-47.21	≤-17.75	PASS
		2480	Reference	0.85	0.85	---	PASS
			30~1000	0.85	-61.78	≤-19.16	PASS
			1000~26500	0.85	-46.62	≤-19.16	PASS
3DH5	Ant1	2402	Reference	1.20	1.20	---	PASS
			30~1000	1.20	-61.06	≤-18.8	PASS
			1000~26500	1.20	-44.51	≤-18.8	PASS
		2441	Reference	1.17	1.17	---	PASS
			30~1000	1.17	-61.78	≤-18.83	PASS
			1000~26500	1.17	-47.62	≤-18.83	PASS
		2480	Reference	-0.01	-0.01	---	PASS
			30~1000	-0.01	-61.1	≤-20.01	PASS
			1000~26500	-0.01	-46.37	≤-20.01	PASS

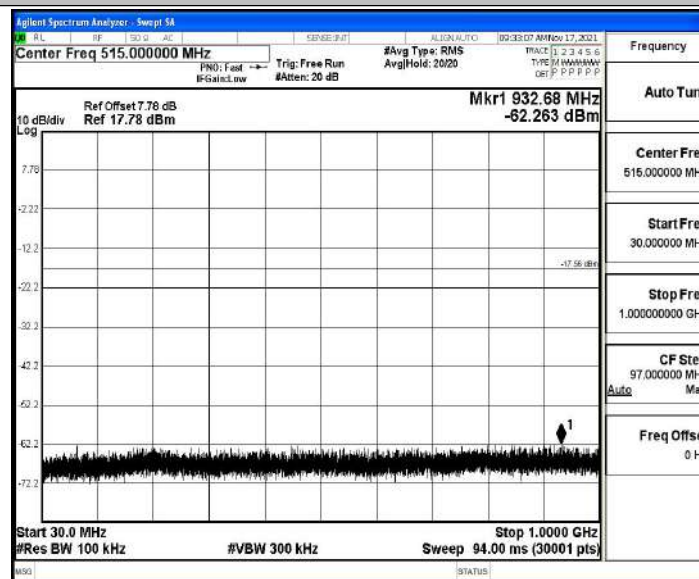


Test Graphs

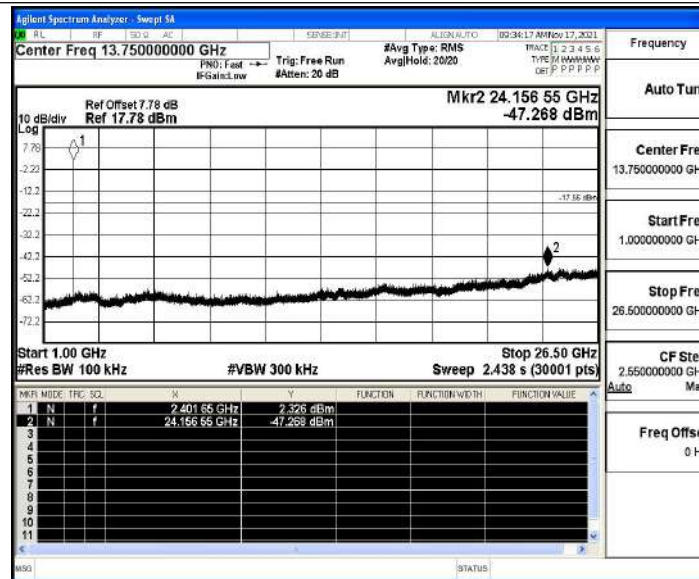
DH5_Ant1_2402_0~Reference



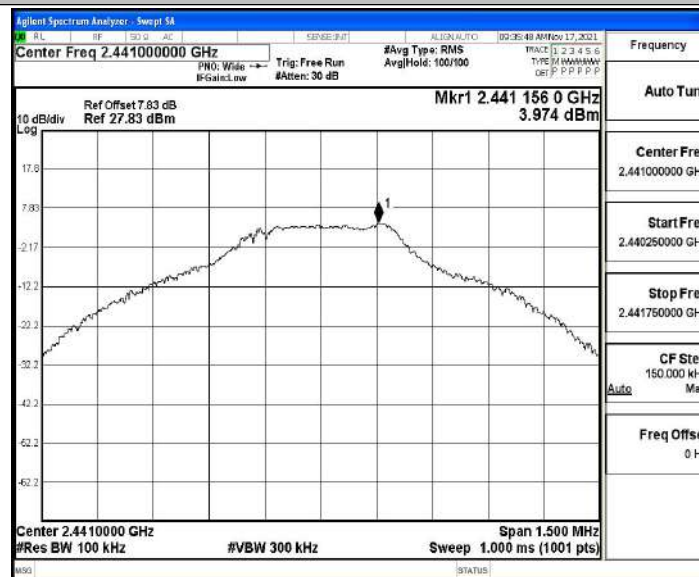
DH5_Ant1_2402_30~1000



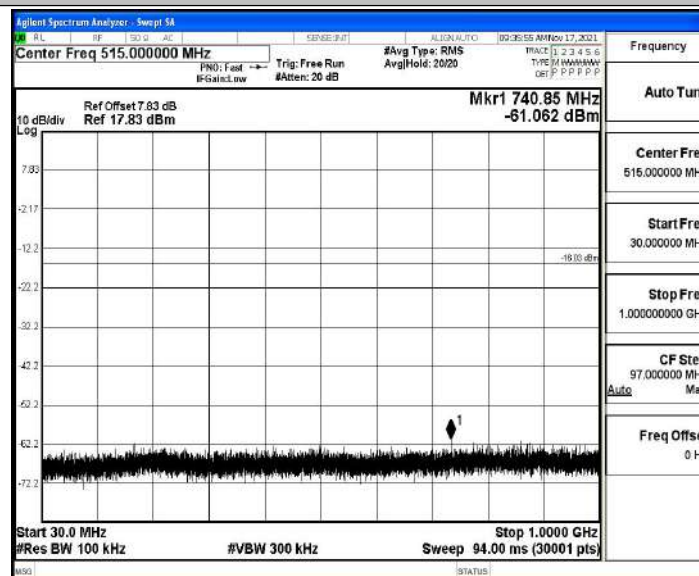
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference

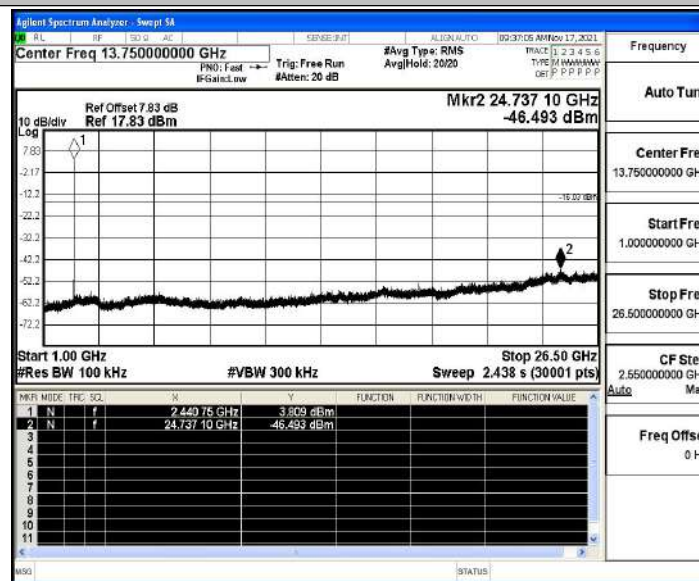


DH5_Ant1_2441_30~1000

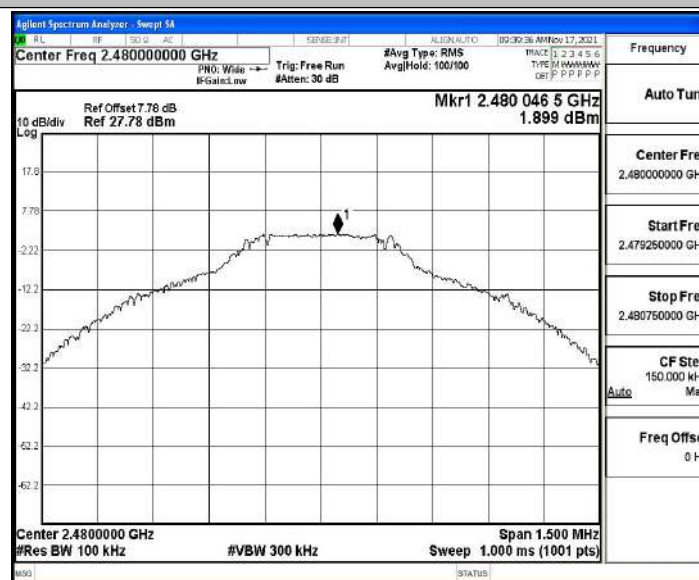




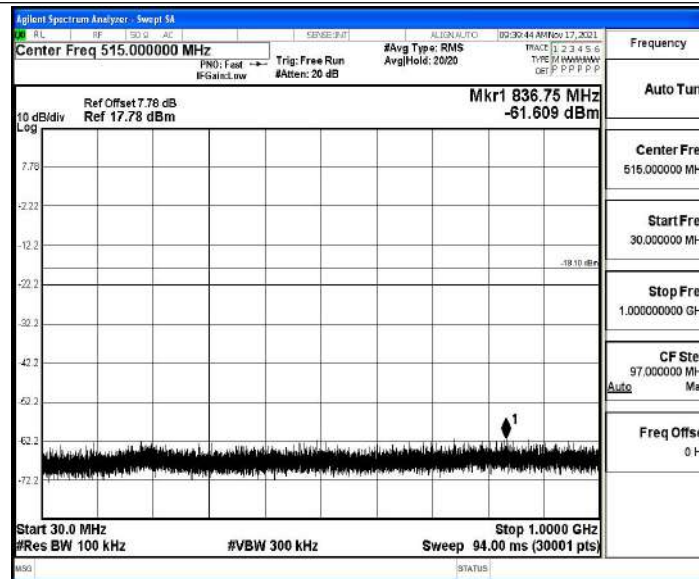
DH5_Ant1_2441_1000~26500



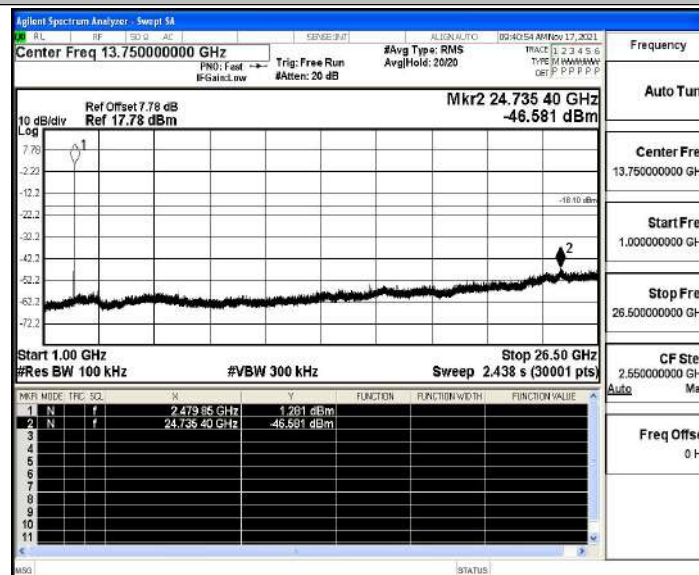
DH5_Ant1_2480_0~Reference



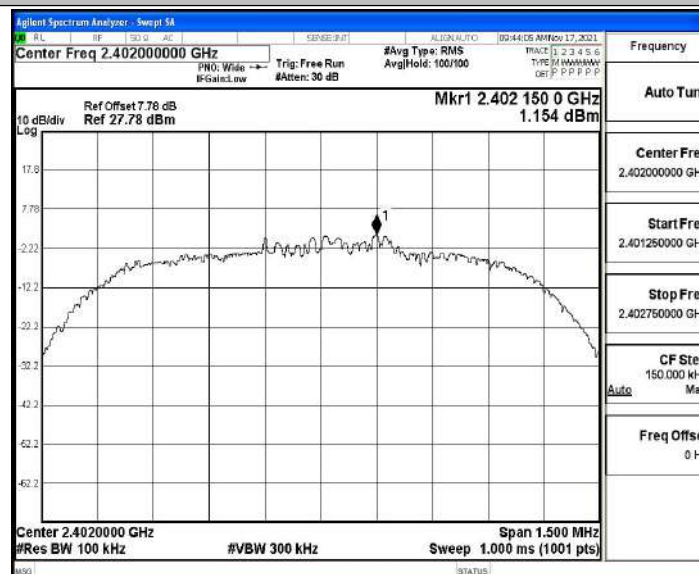
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

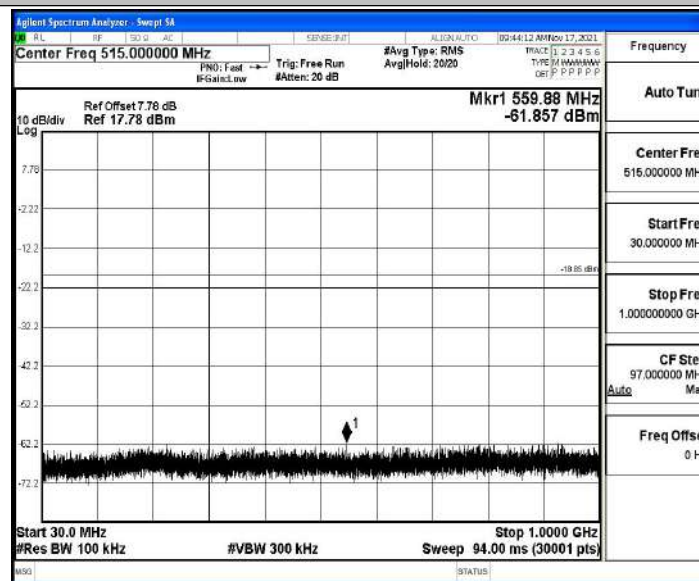


2DH5_Ant1_2402_0~Reference

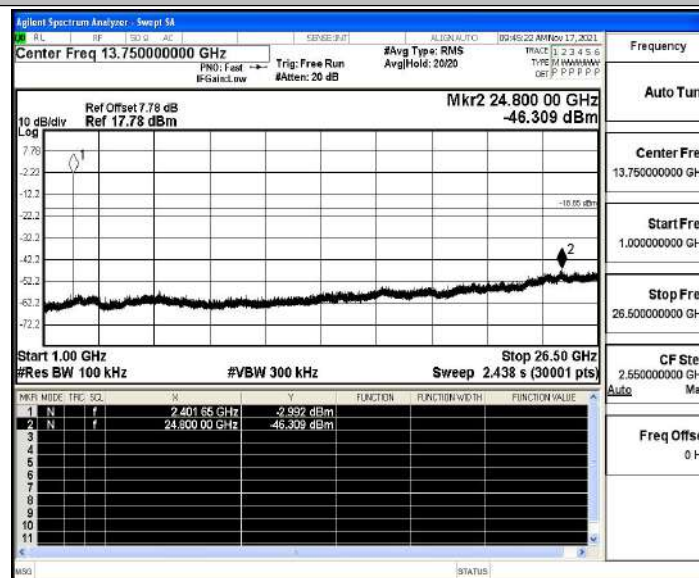




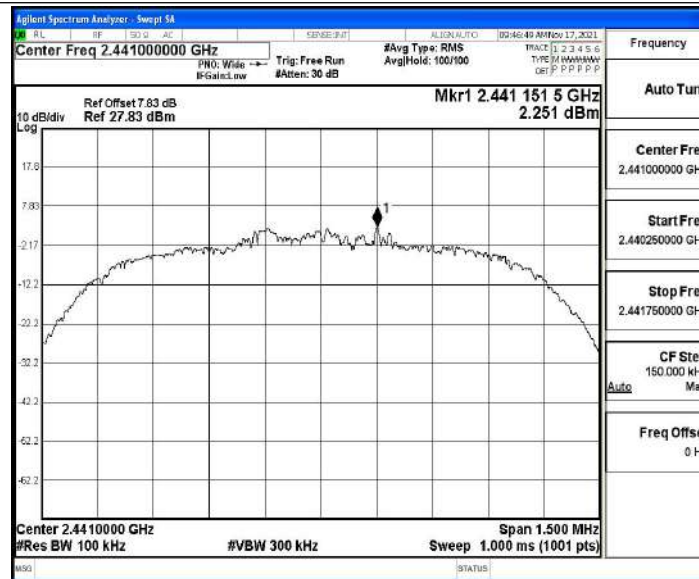
2DH5_Ant1_2402_30~1000



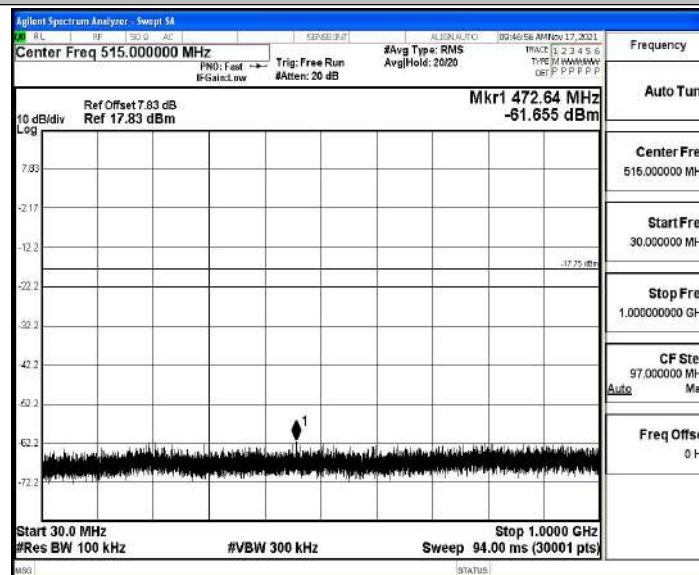
2DH5_Ant1_2402_1000~26500



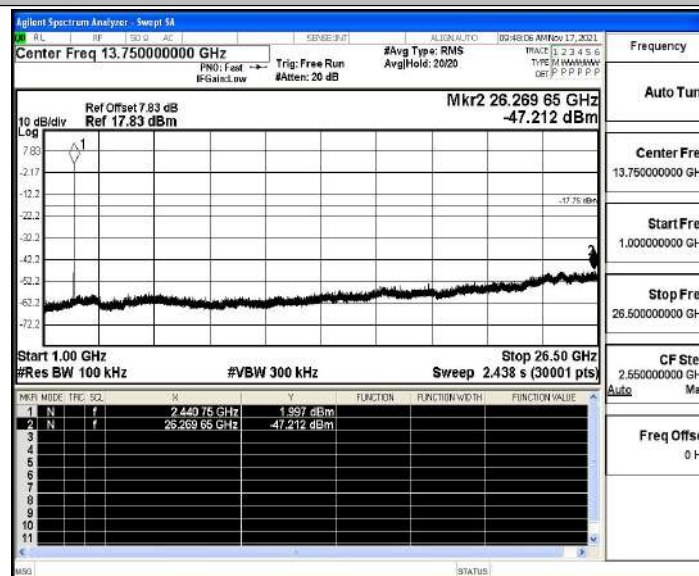
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

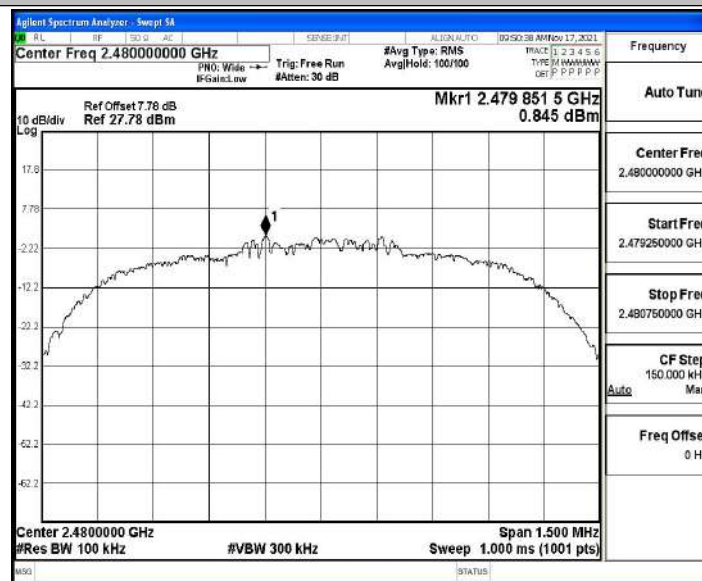


2DH5_Ant1_2441_1000~26500

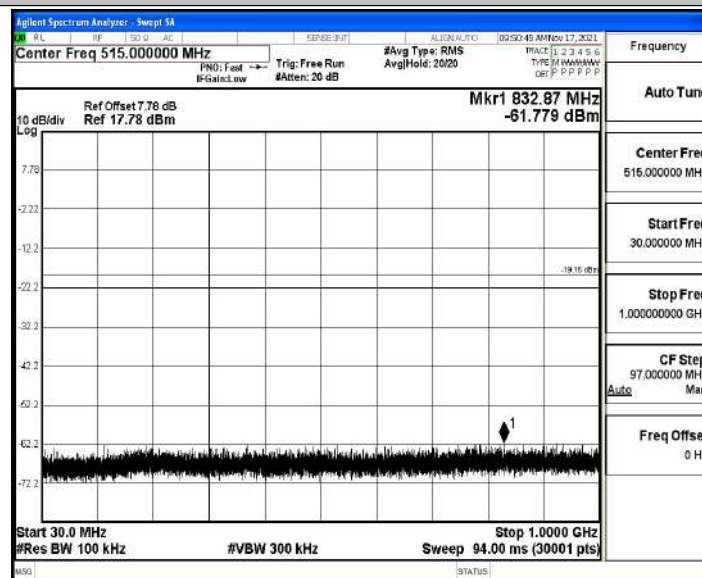




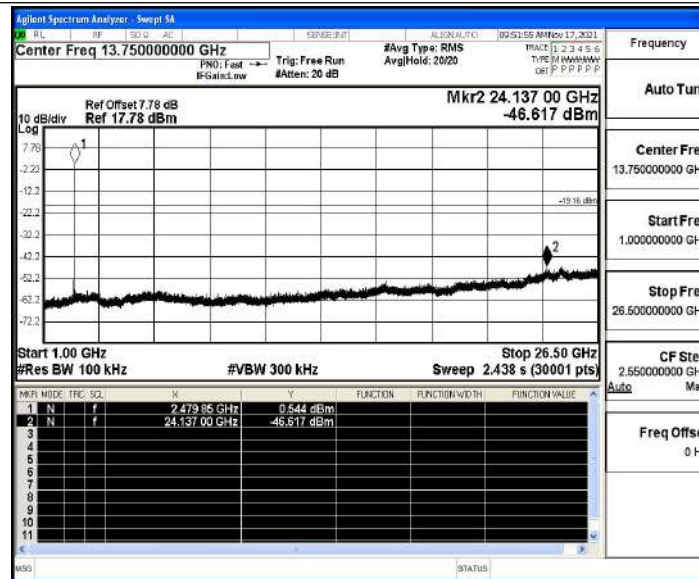
2DH5_Ant1_2480_0~Reference



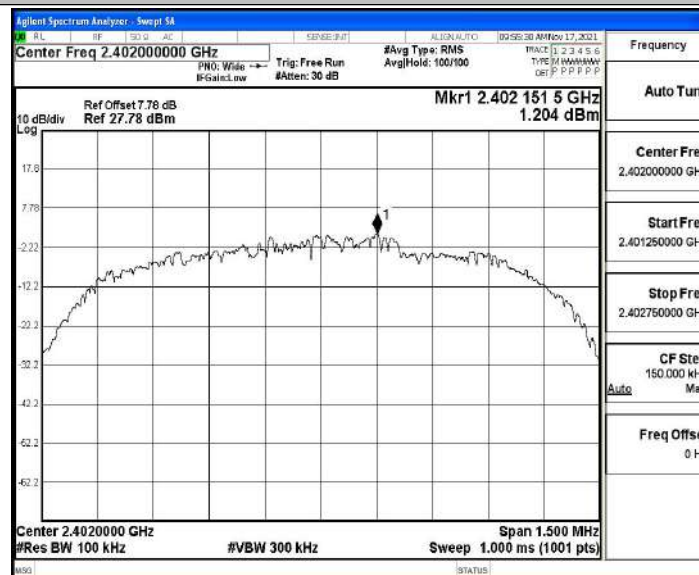
2DH5_Ant1_2480_30~1000



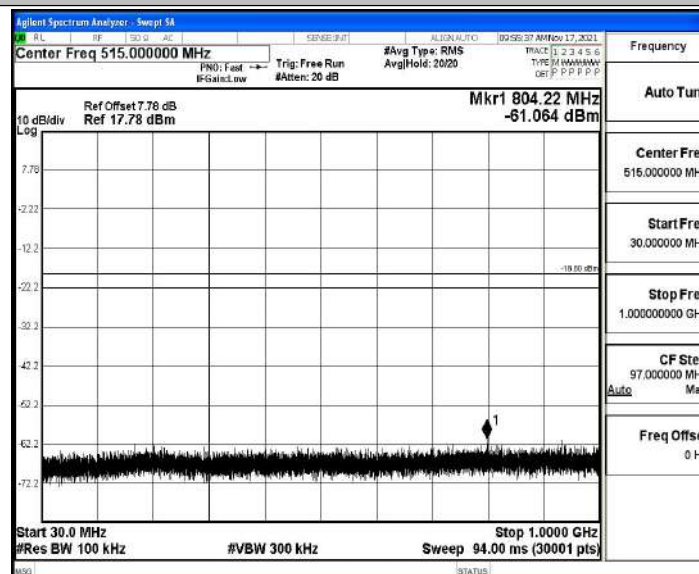
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

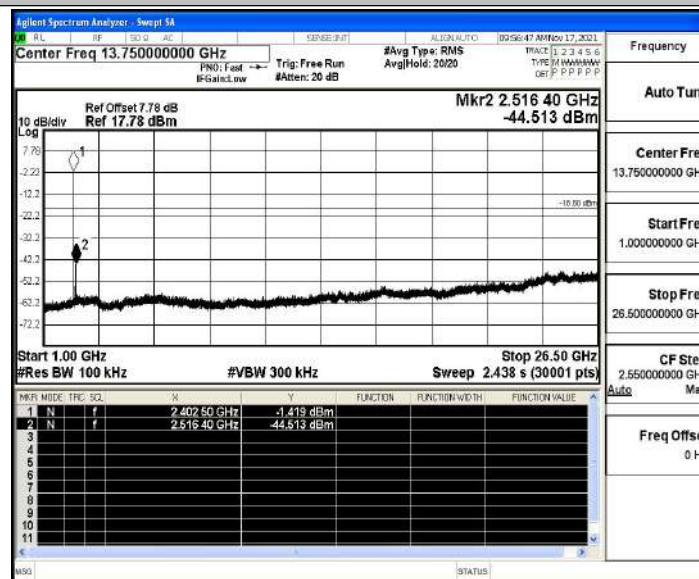


3DH5_Ant1_2402_30~1000

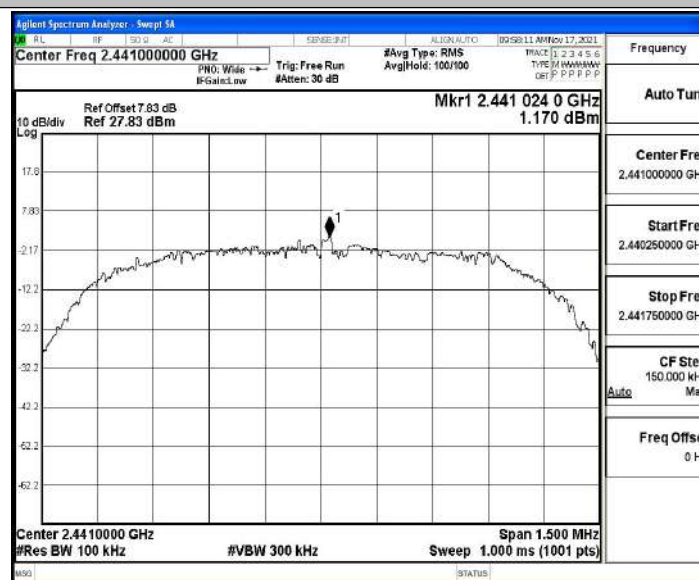




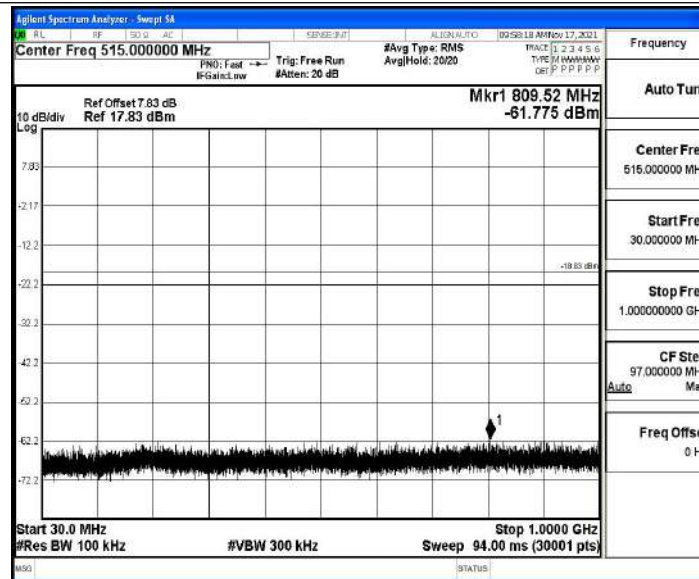
3DH5_Ant1_2402_1000~26500



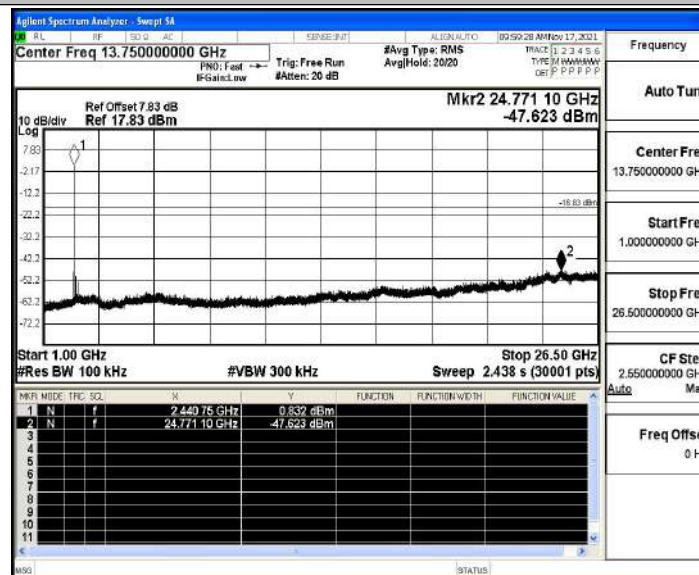
3DH5_Ant1_2441_0~Reference



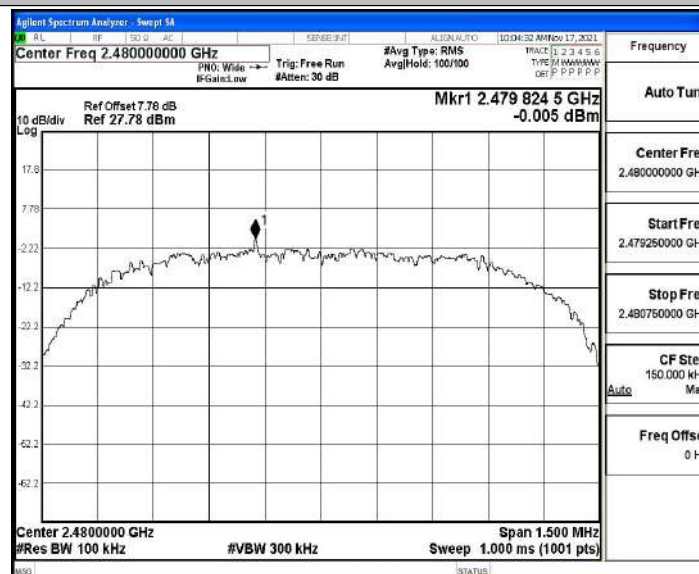
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

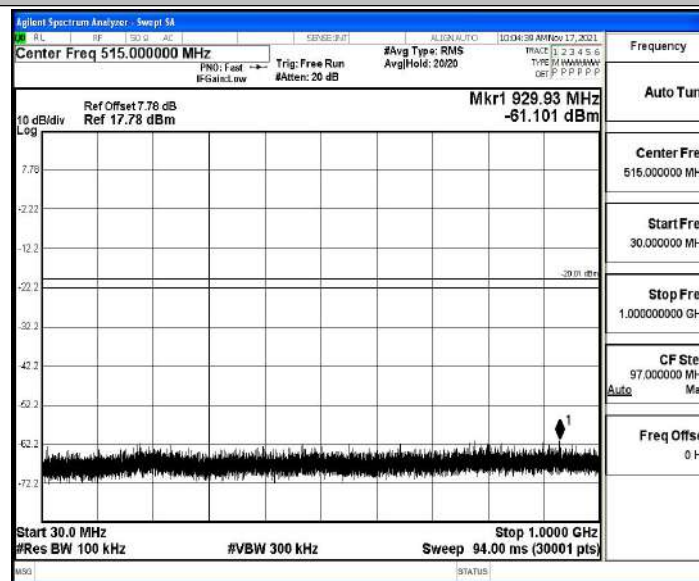


3DH5_Ant1_2480_0~Reference

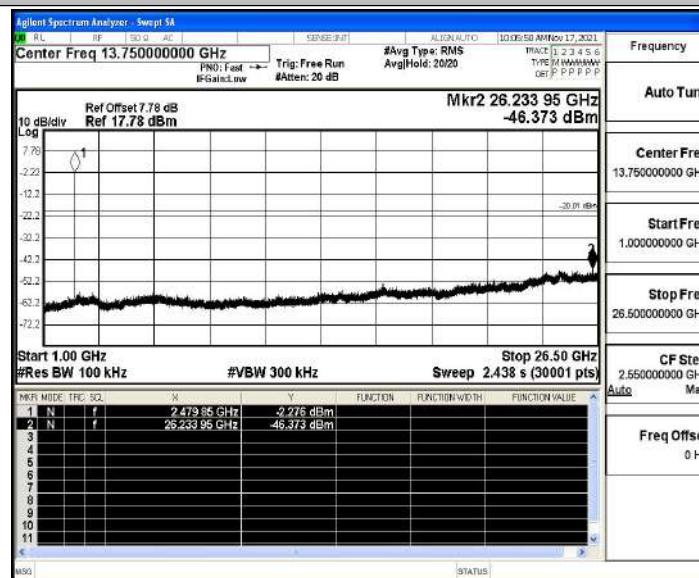




3DH5_Ant1_2480_30~1000



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	-49.05	≤-41.20	46.15	≤54	PASS
				AV	2382.005	-48.56	≤-41.20	46.64	≤54	PASS
				AV	2390.000	-48.68	≤-41.20	46.52	≤54	PASS
				Peak	2310.000	-43.82	≤-21.20	51.38	≤74	PASS
				Peak	2336.120	-38.87	≤-21.20	56.33	≤74	PASS
				Peak	2390.000	-40.36	≤-21.20	54.84	≤74	PASS
		High	2480	AV	2483.500	-47.83	≤-41.20	47.37	≤54	PASS
				AV	2483.520	-47.83	≤-41.20	47.37	≤54	PASS
				AV	2500.000	-48.07	≤-41.20	47.13	≤54	PASS
				Peak	2483.500	-41.86	≤-21.20	53.34	≤74	PASS
				Peak	2495.520	-38.26	≤-21.20	56.94	≤74	PASS
				Peak	2500.000	-42.69	≤-21.20	52.51	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.98	≤-41.20	46.22	≤54	PASS
				AV	2388.935	-48.56	≤-41.20	46.64	≤54	PASS
				AV	2390.000	-48.69	≤-41.20	46.51	≤54	PASS
				Peak	2310.000	-40.88	≤-21.20	54.32	≤74	PASS
				Peak	2312.495	-38.99	≤-21.20	56.21	≤74	PASS
				Peak	2390.000	-40.9	≤-21.20	54.30	≤74	PASS
		High	2480	AV	2483.500	-47.8	≤-41.20	47.40	≤54	PASS
				AV	2483.520	-47.8	≤-41.20	47.40	≤54	PASS
				AV	2500.000	-48.09	≤-41.20	47.11	≤54	PASS
				Peak	2483.500	-41.85	≤-21.20	53.35	≤74	PASS
				Peak	2491.280	-38.35	≤-21.20	56.85	≤74	PASS
				Peak	2500.000	-41.22	≤-21.20	53.98	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.94	≤-41.20	46.26	≤54	PASS
				AV	2379.170	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2390.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2310.000	-40.02	≤-21.20	55.18	≤74	PASS
				Peak	2375.705	-39.26	≤-21.20	55.94	≤74	PASS
				Peak	2390.000	-41.98	≤-21.20	53.22	≤74	PASS
		High	2480	AV	2483.500	-47.83	≤-41.20	47.37	≤54	PASS
				AV	2483.520	-47.83	≤-41.20	47.37	≤54	PASS
				AV	2500.000	-48.07	≤-41.20	47.13	≤54	PASS
				Peak	2483.500	-43.13	≤-21.20	52.07	≤74	PASS
				Peak	2487.120	-38.21	≤-21.20	56.99	≤74	PASS
				Peak	2500.000	-41.92	≤-21.20	53.28	≤74	PASS



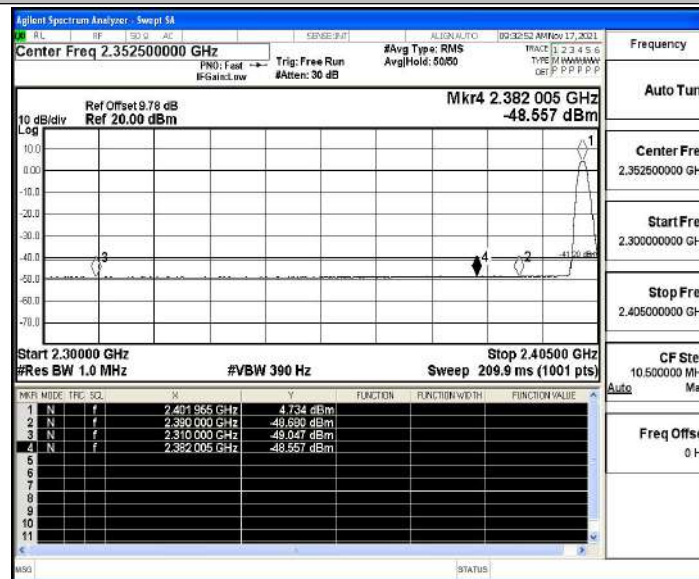
Note:

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.

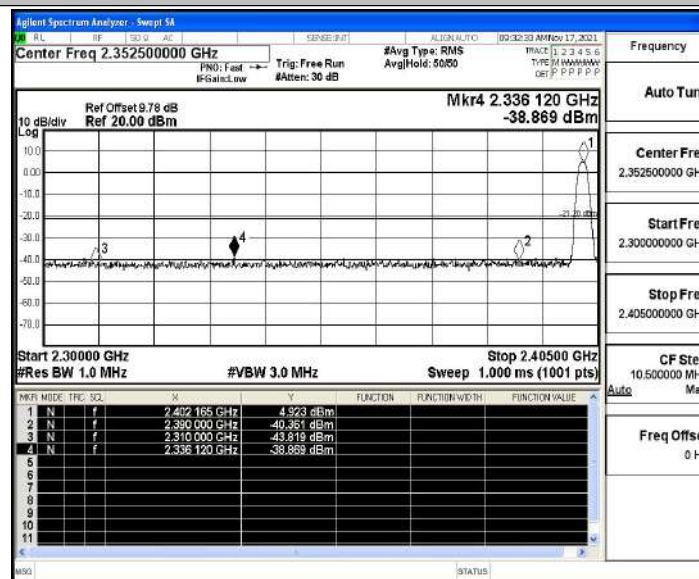


Test Graphs

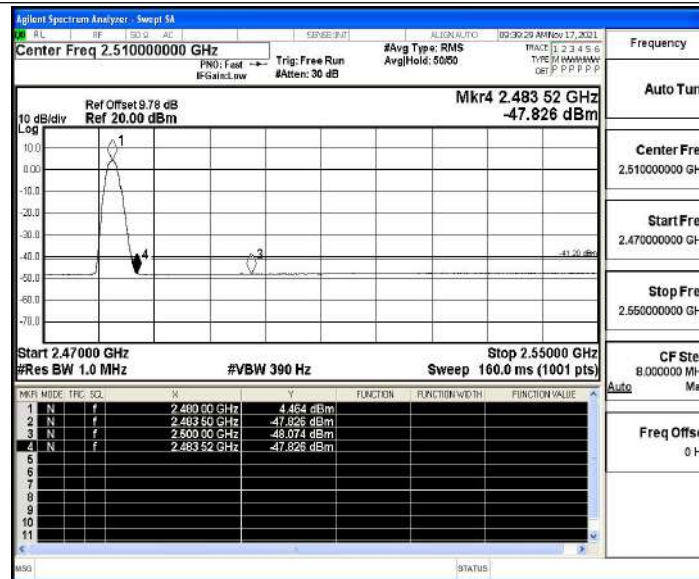
DH5_Ant1_Low_2402_AV



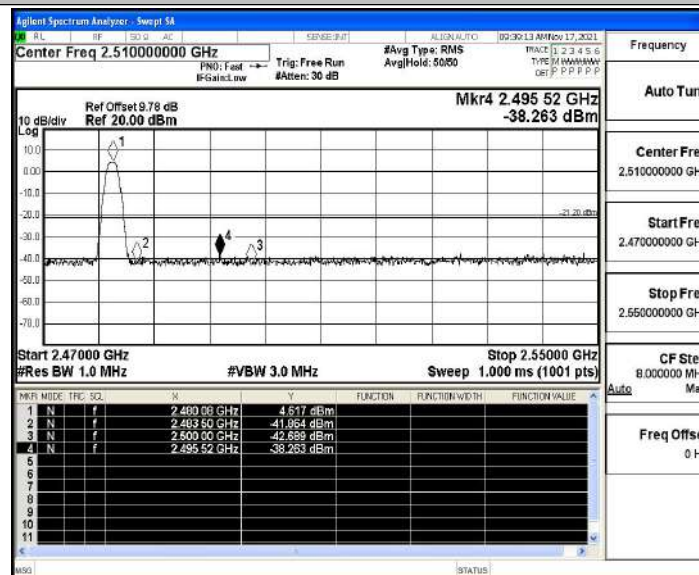
DH5_Ant1_Low_2402_Peak



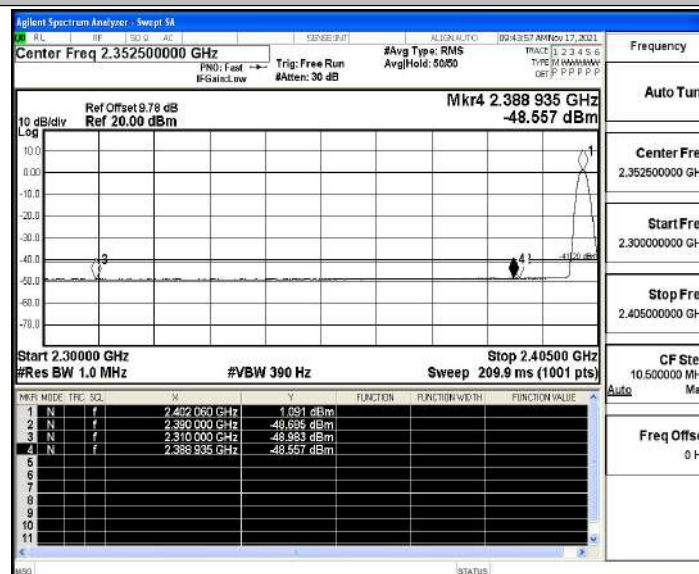
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

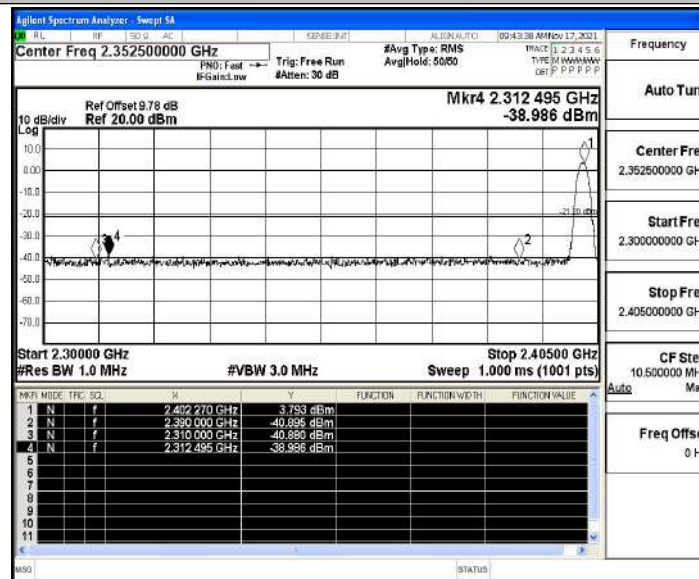


2DH5_Ant1_Low_2402_AV

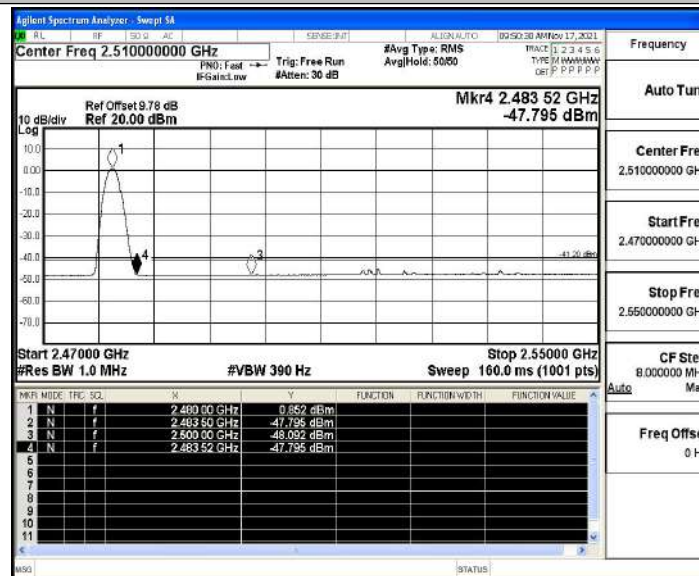




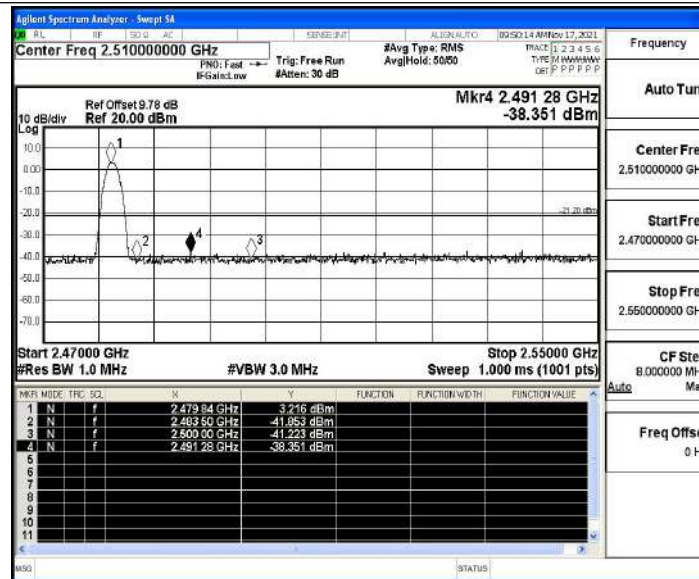
2DH5_Ant1_Low_2402_Peak



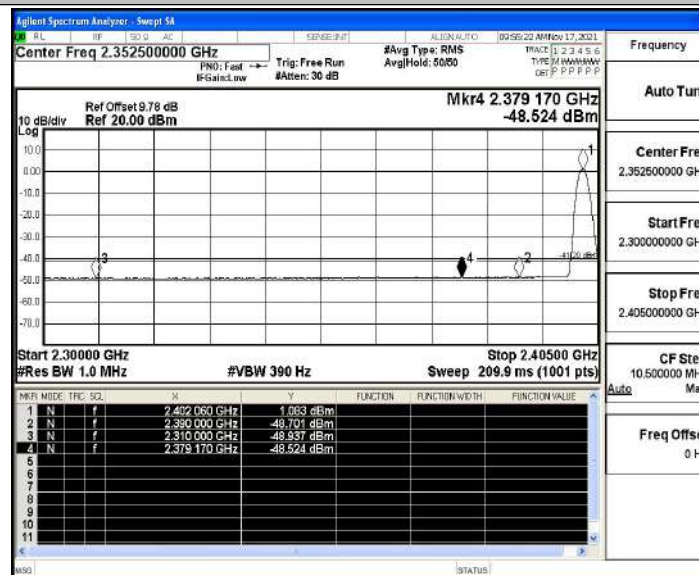
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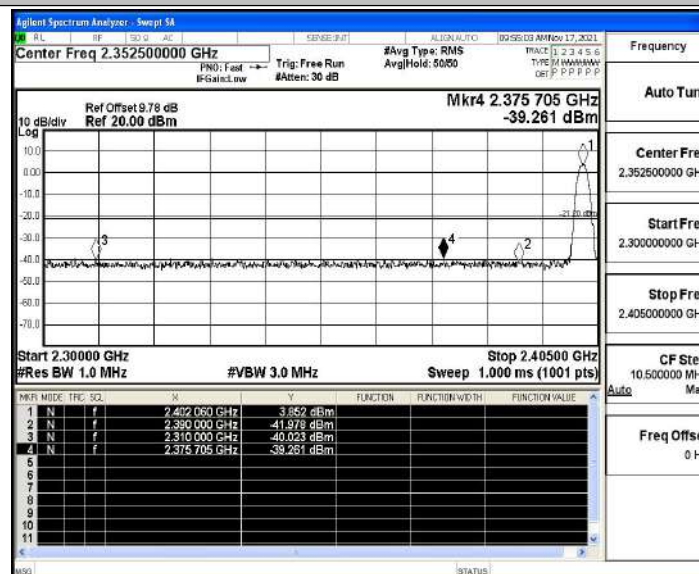
2DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_2402_AV

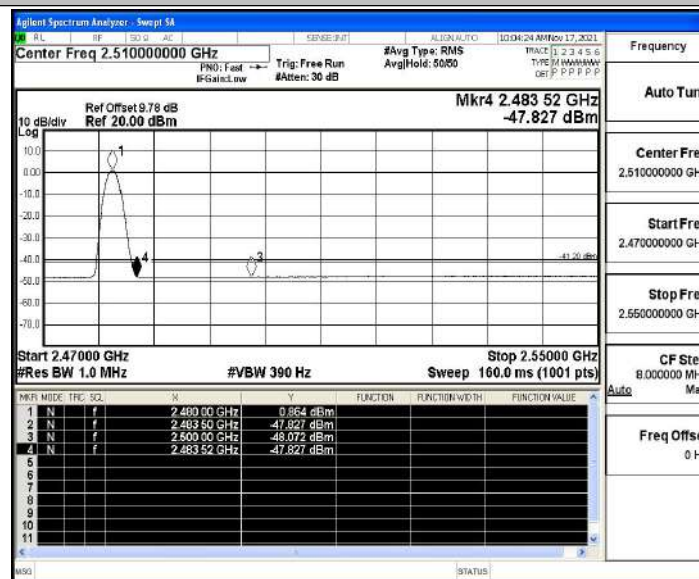


3DH5_Ant1_Low_2402_Peak





3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

