



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Intel mini PC

Test Model: NEO Z83-4 Max

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Kay Hu
Supervised by:	 Li Huan



A.1 20dB Emission Bandwidth

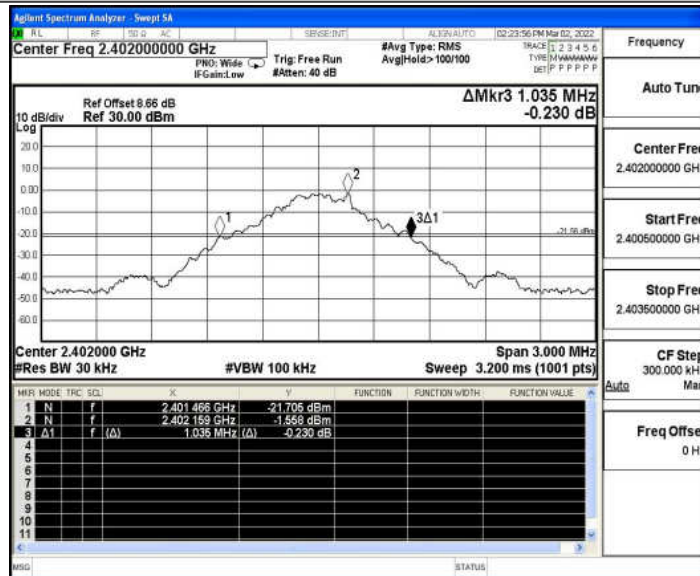
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.035	2401.466	2402.501	---	---
		2441	1.044	2440.457	2441.501	---	---
		2480	1.044	2479.457	2480.501	---	---
2DH5	Ant1	2402	1.287	2401.361	2402.648	---	---
		2441	1.317	2440.337	2441.654	---	---
		2480	1.296	2479.358	2480.654	---	---
3DH5	Ant1	2402	1.299	2401.346	2402.645	---	---
		2441	1.293	2440.349	2441.642	---	---
		2480	1.296	2479.346	2480.642	---	---

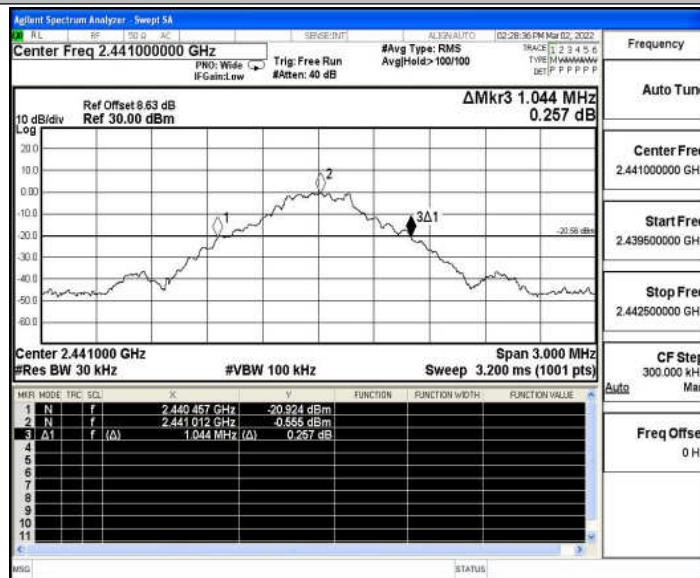


Test Graphs

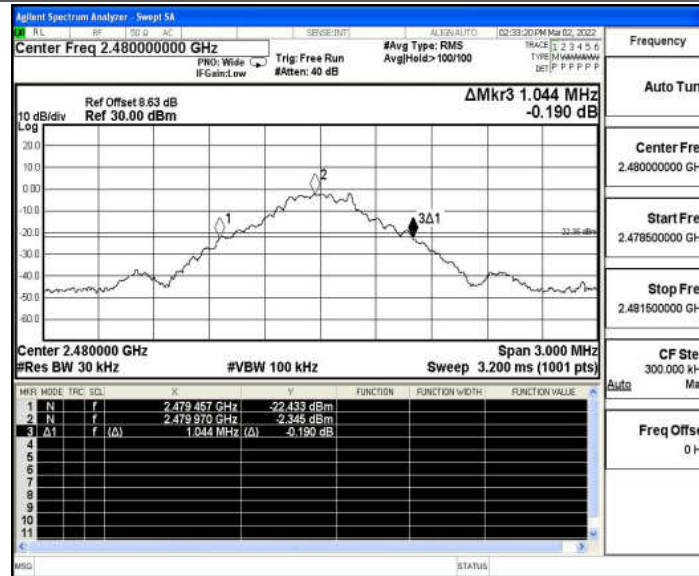
DH5_Ant1_2402



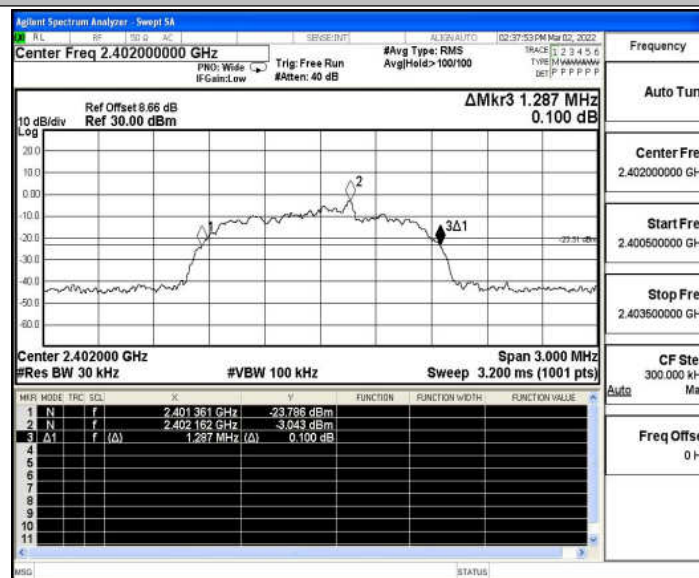
DH5_Ant1_2441



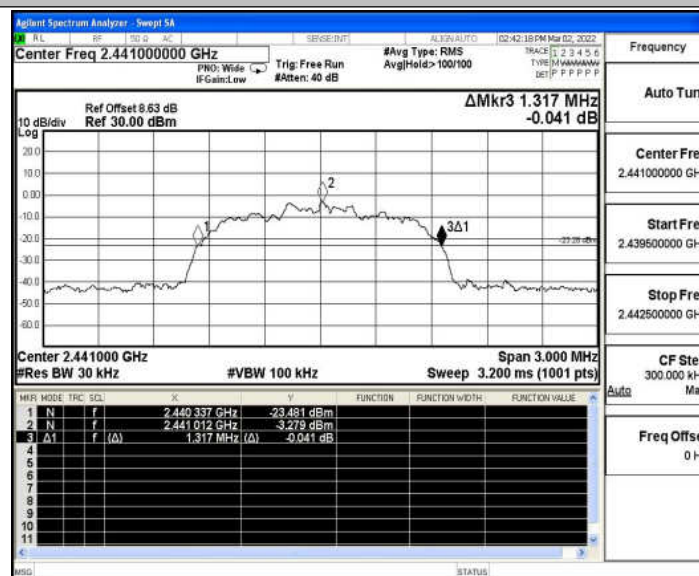
DH5_Ant1_2480



2DH5_Ant1_2402

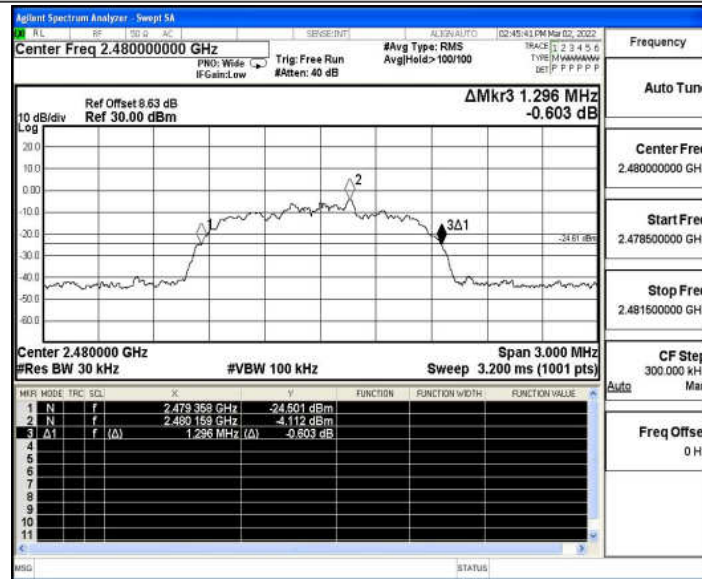


2DH5_Ant1_2441

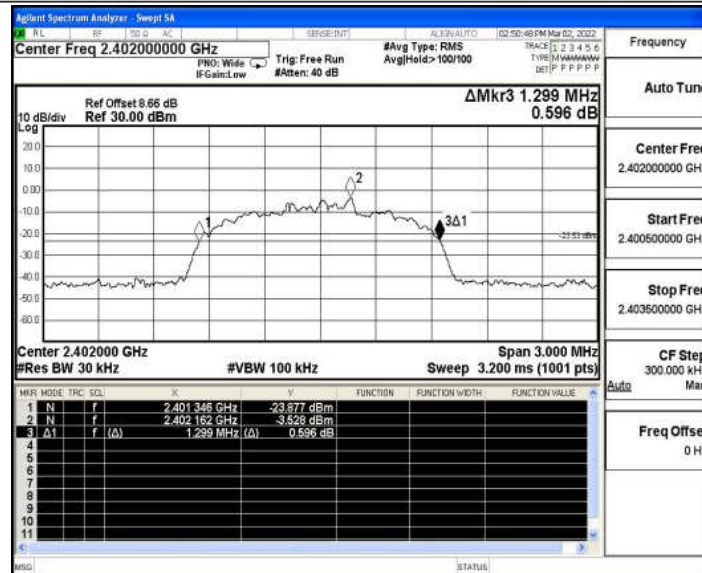




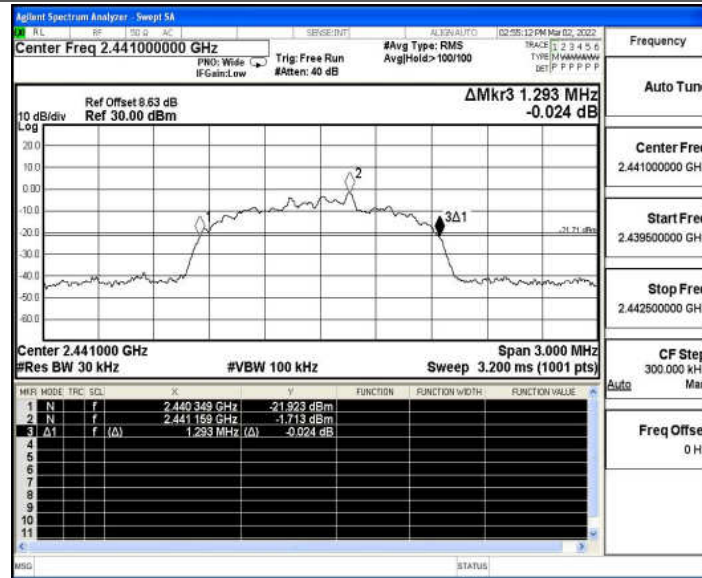
2DH5_Ant1_2480



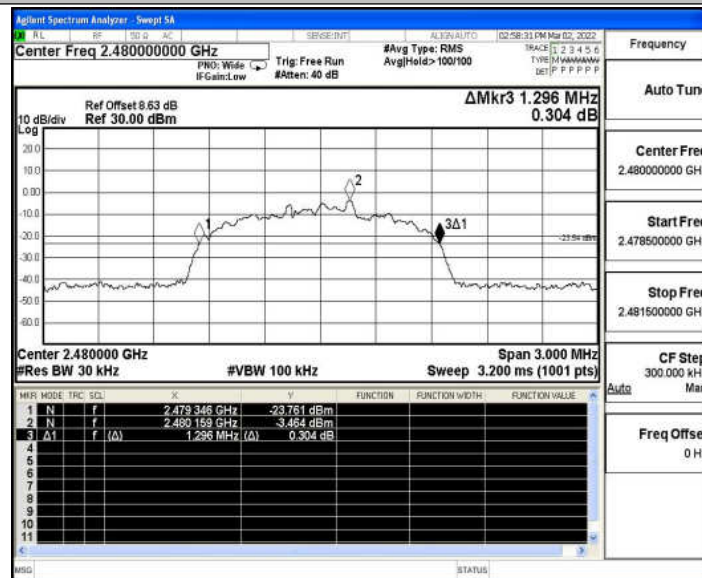
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.2 Maximum peak conducted output power

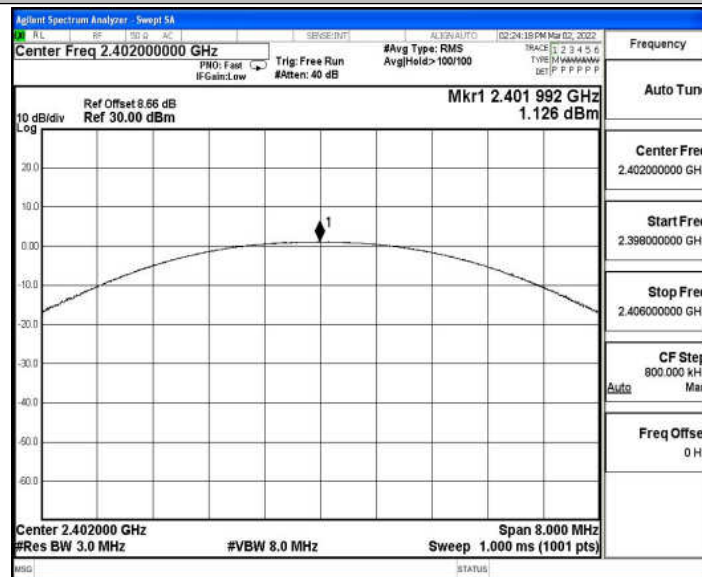
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.13	≤ 20.97	PASS
		2441	2.37	≤ 20.97	PASS
		2480	0.77	≤ 20.97	PASS
2DH5	Ant1	2402	0.15	≤ 20.97	PASS
		2441	1.54	≤ 20.97	PASS
		2480	-0.06	≤ 20.97	PASS
3DH5	Ant1	2402	0.28	≤ 20.97	PASS
		2441	1.65	≤ 20.97	PASS
		2480	-0.04	≤ 20.97	PASS

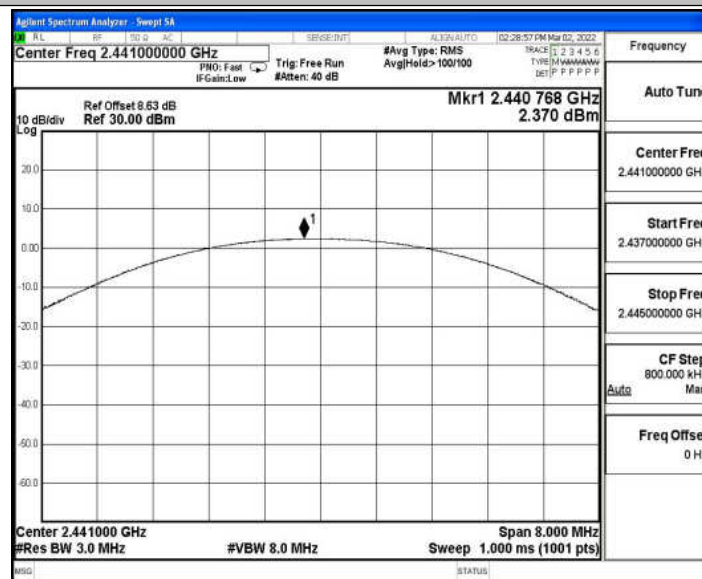


Test Graphs

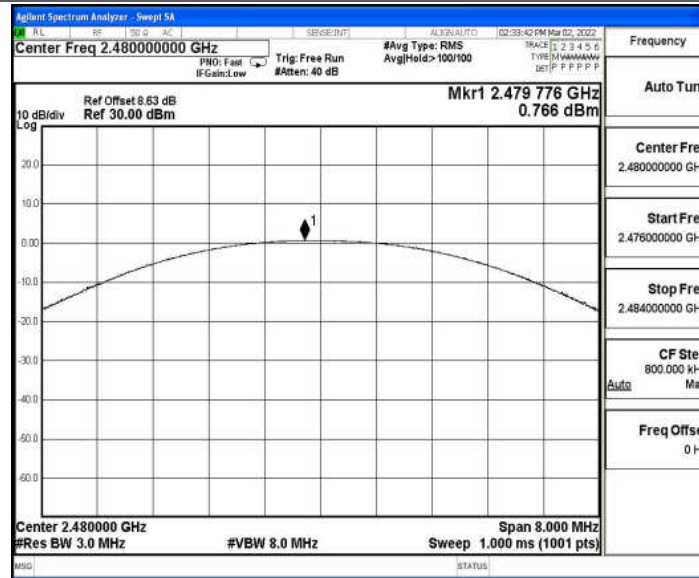
DH5_Ant1_2402



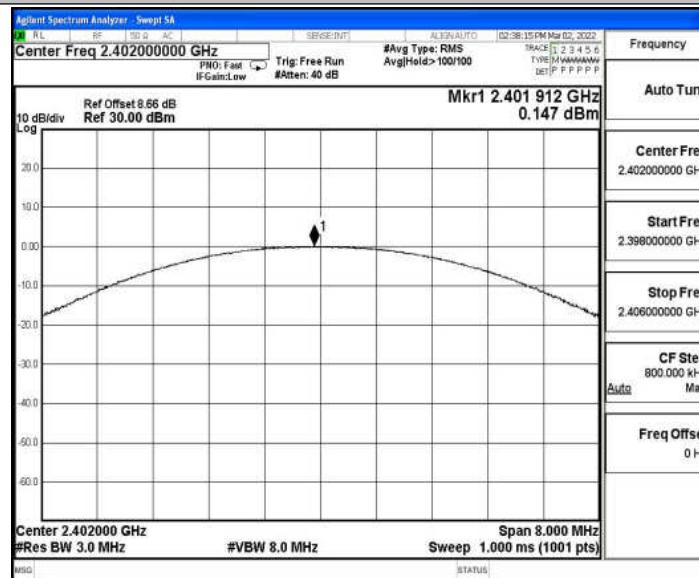
DH5_Ant1_2441



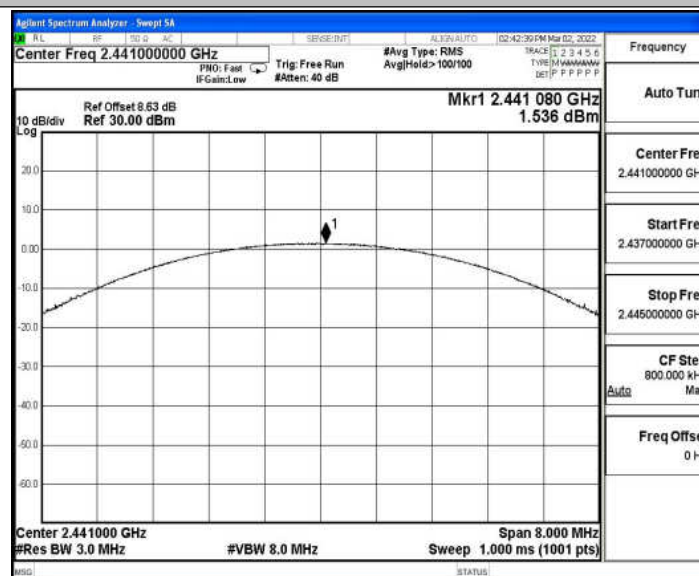
DH5_Ant1_2480



2DH5_Ant1_2402

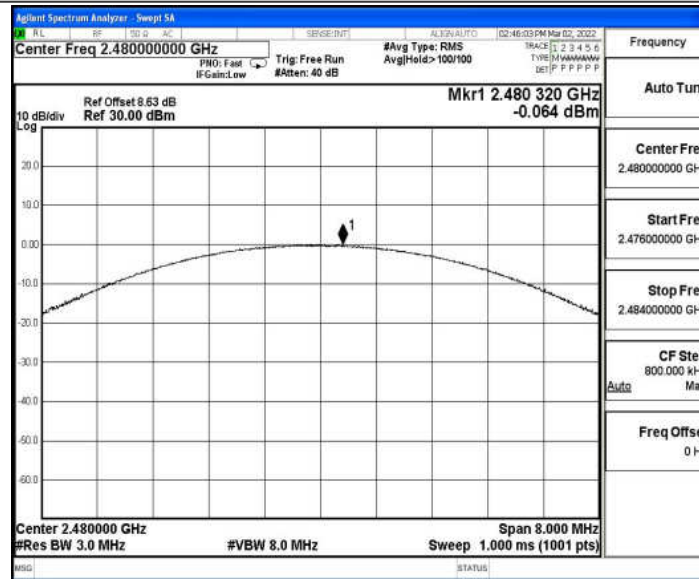


2DH5_Ant1_2441

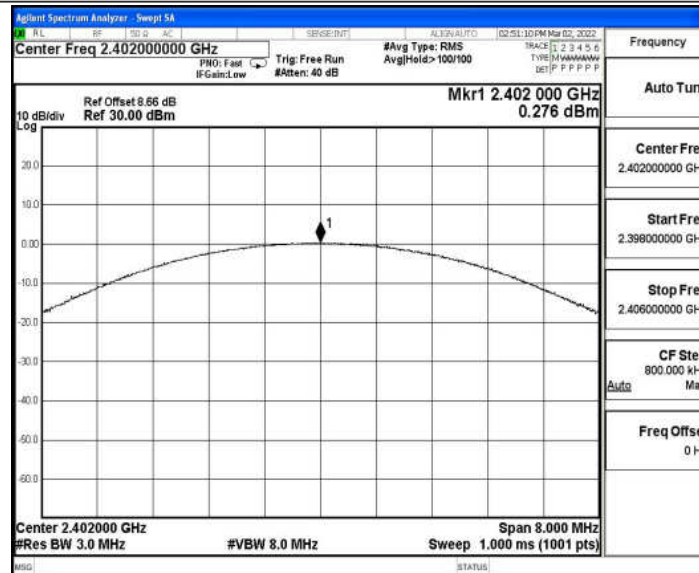




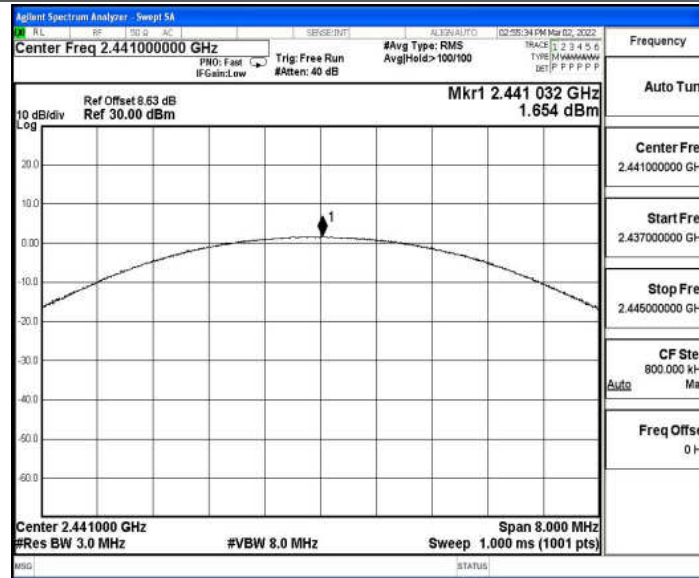
2DH5_Ant1_2480



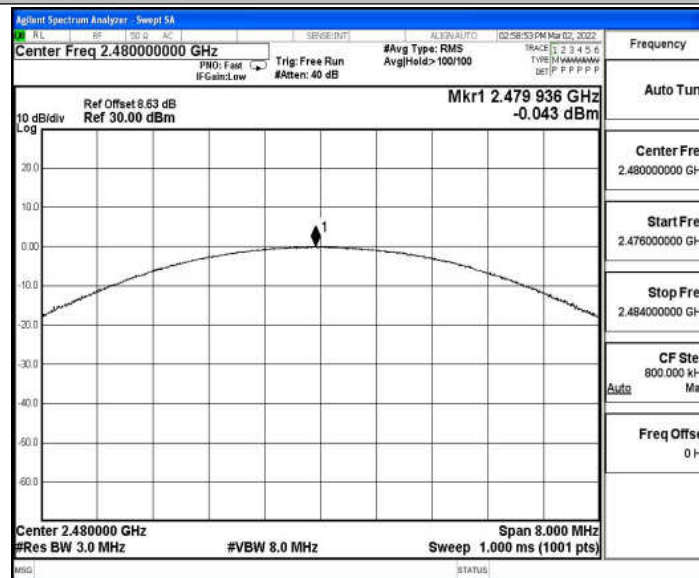
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





A.3 Carrier frequency separation

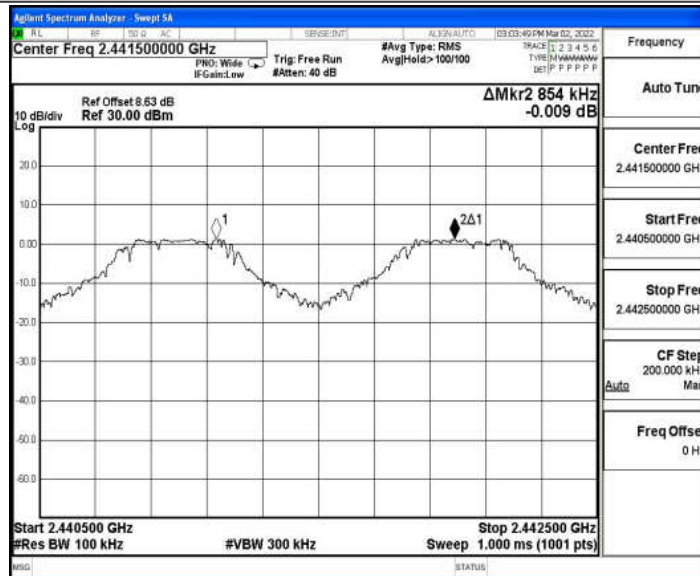
Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.854	≥ 0.696	PASS
2DH5	Ant1	Hop	1.01	≥ 0.878	PASS
3DH5	Ant1	Hop	0.954	≥ 0.866	PASS

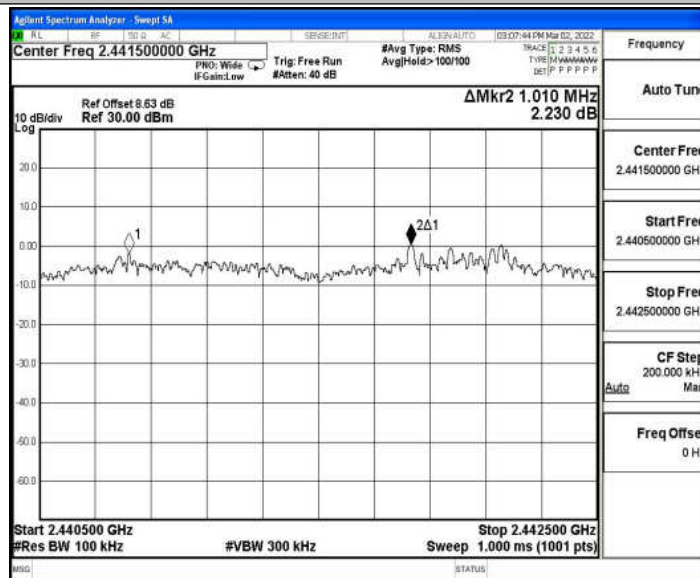


Test Graphs

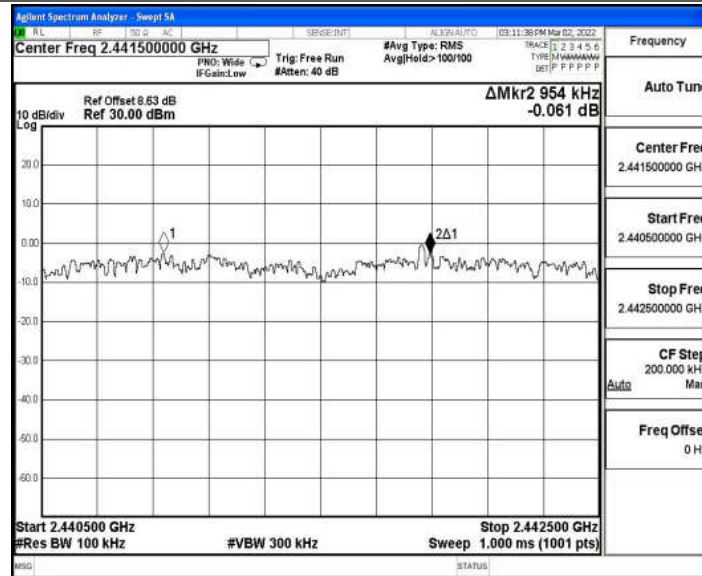
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.4 Time of occupancy

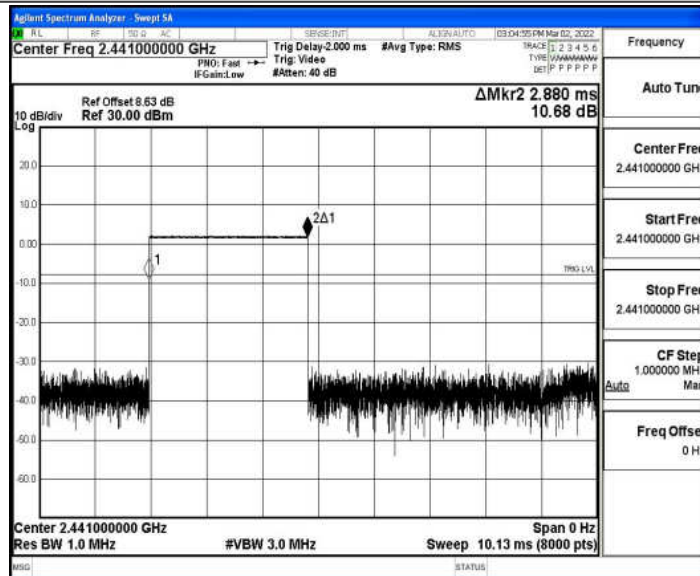
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS

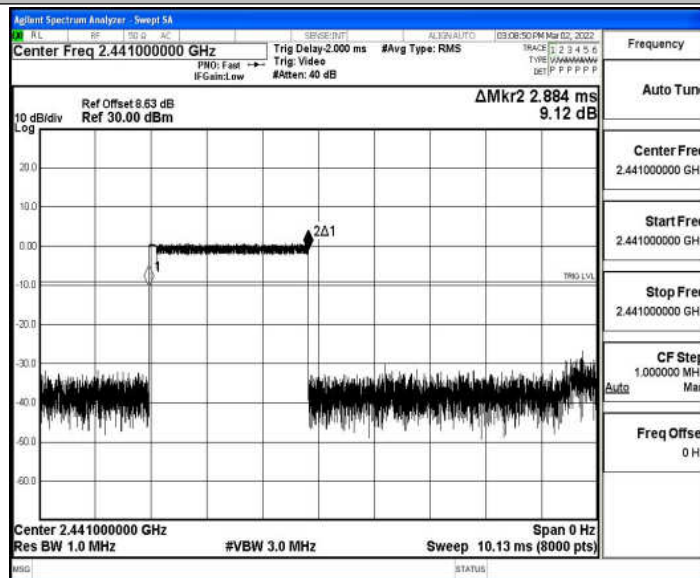


Test Graphs

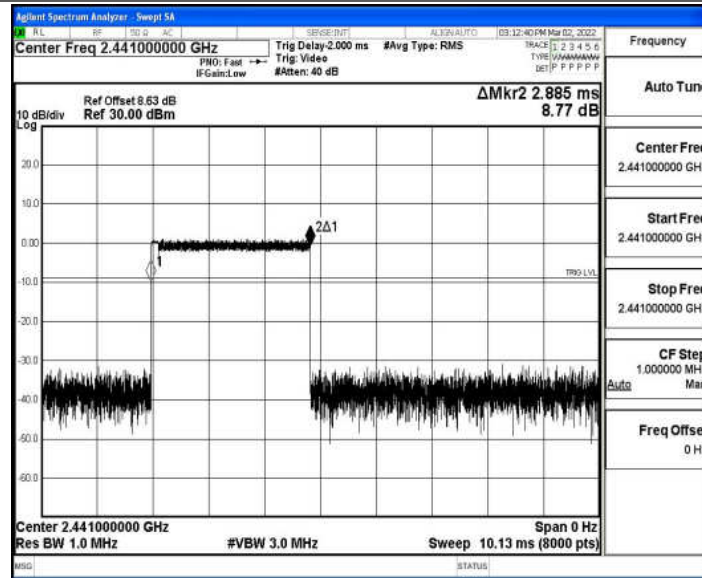
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.5 Number of hopping channels

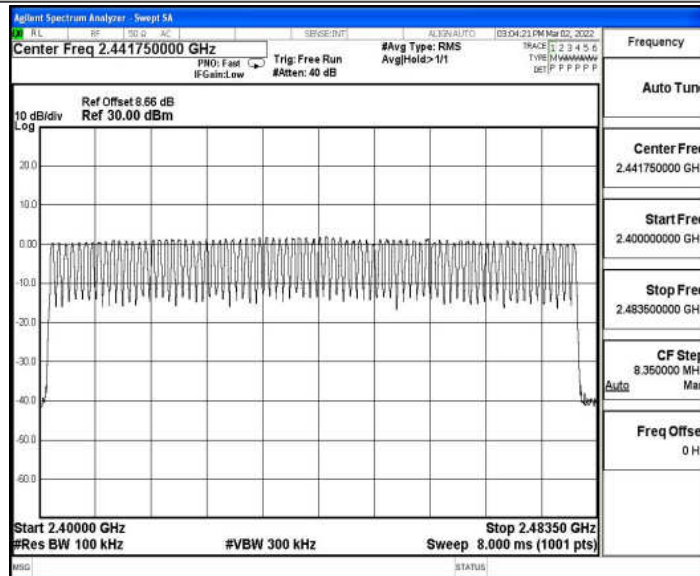
Test Result

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

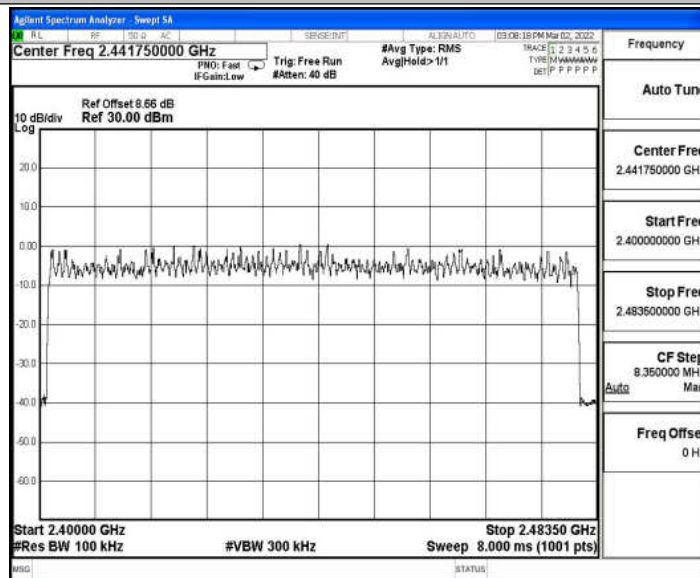


Test Graphs

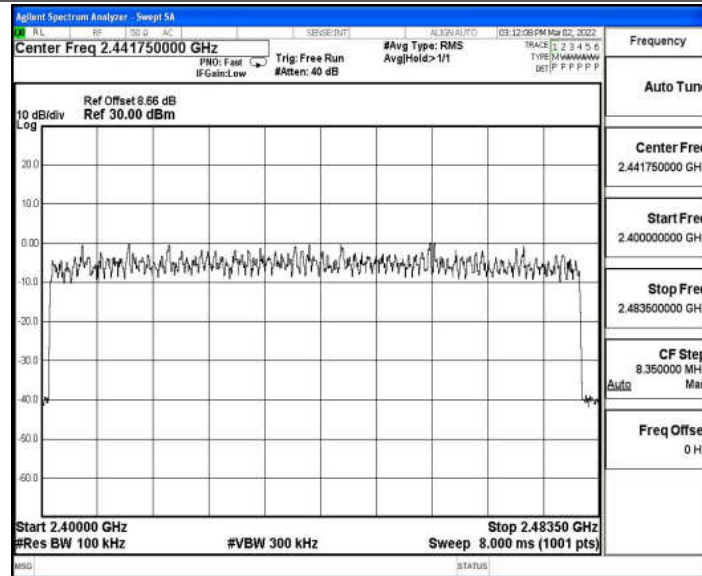
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop





A.6 Band edge measurements

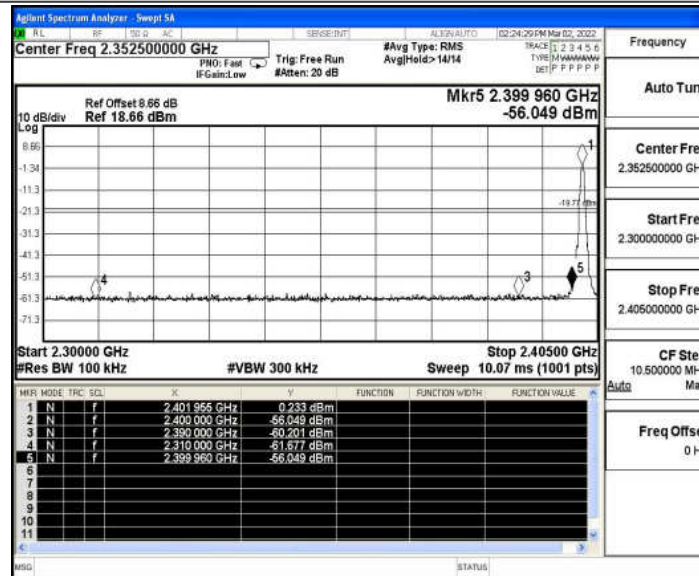
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.23	-56.05	≤ -19.77	PASS
		High	2480	0.01	-57.33	≤ -19.99	PASS
		Low	Hop_2402	-0.56	-59.55	≤ -20.56	PASS
		High	Hop_2480	0.29	-58.1	≤ -19.71	PASS
2DH5	Ant1	Low	2402	-1.94	-55.94	≤ -21.94	PASS
		High	2480	-1.38	-57.89	≤ -21.38	PASS
		Low	Hop_2402	-4.80	-59.12	≤ -24.8	PASS
		High	Hop_2480	-2.54	-57.88	≤ -22.54	PASS
3DH5	Ant1	Low	2402	-2.57	-56.35	≤ -22.57	PASS
		High	2480	-1.31	-57.47	≤ -21.31	PASS
		Low	Hop_2402	-3.27	-59.34	≤ -23.27	PASS
		High	Hop_2480	-1.31	-57.71	≤ -21.31	PASS

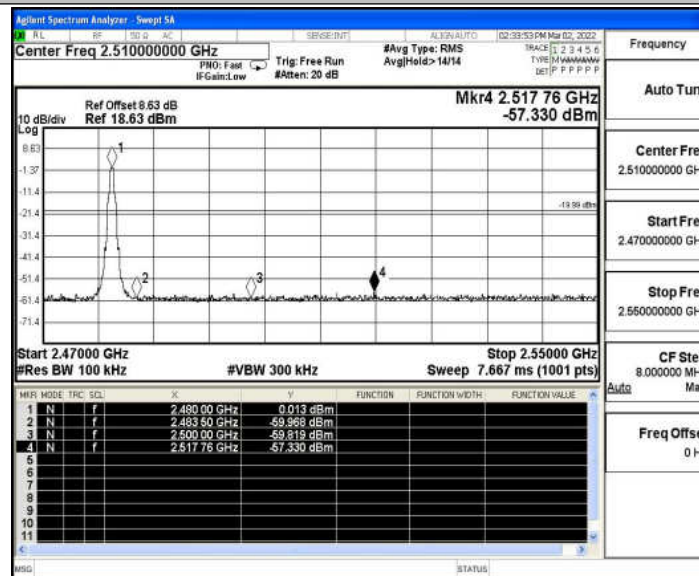


Test Graphs

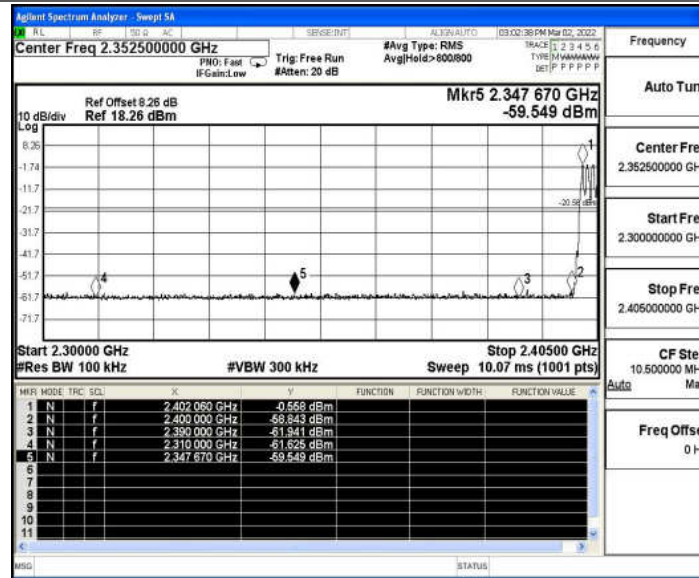
DH5_Ant1_Low_2402



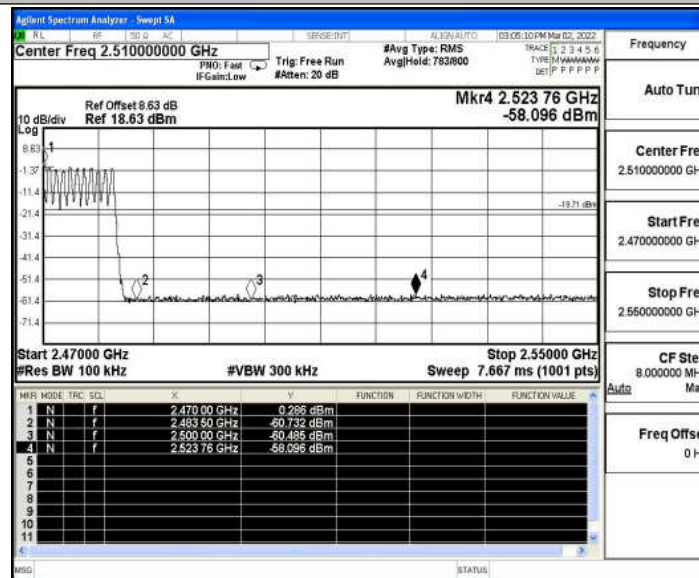
DH5_Ant1_High_2480



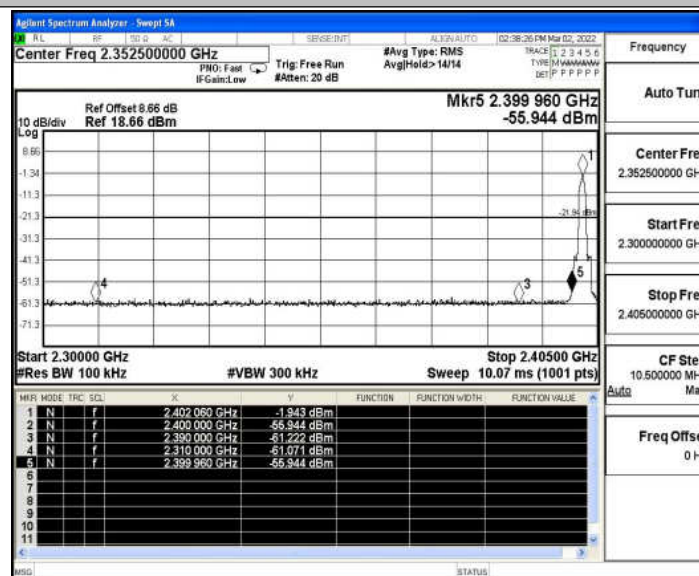
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

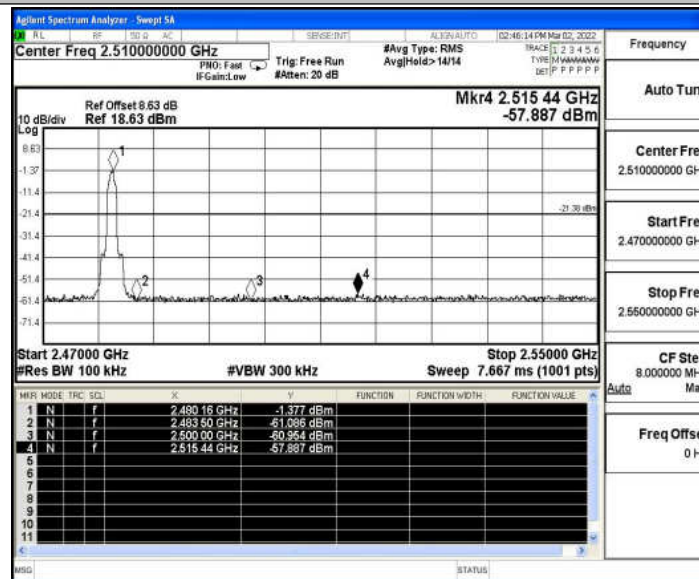


2DH5_Ant1_Low_2402

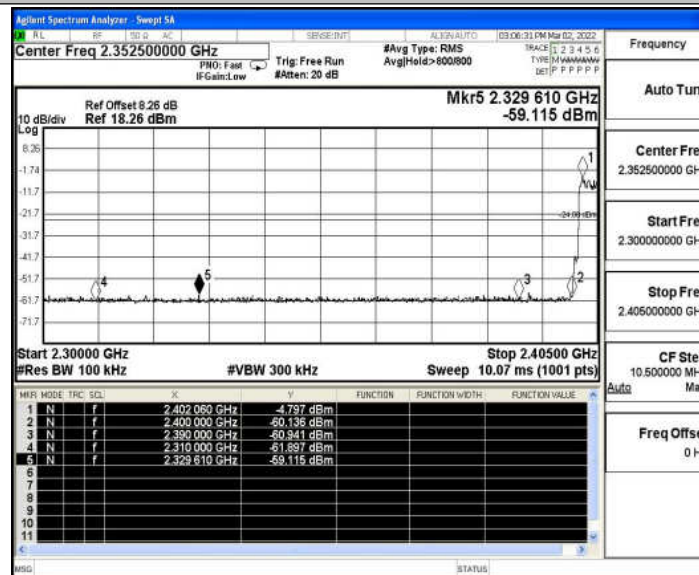




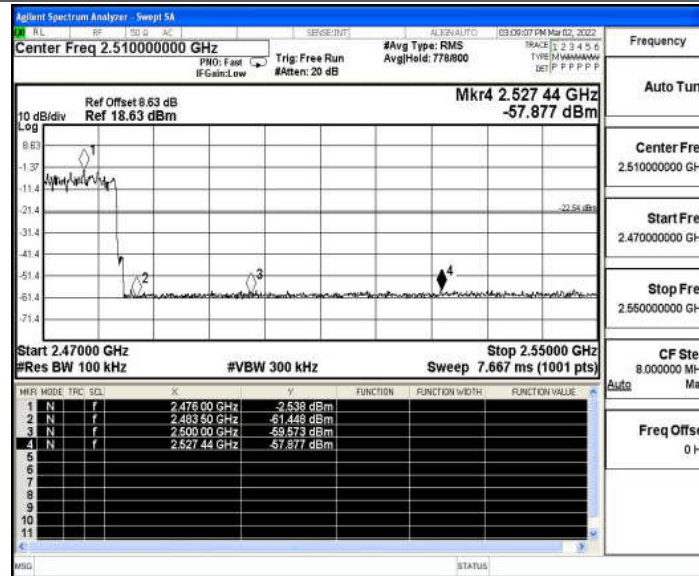
2DH5_Ant1_High_2480



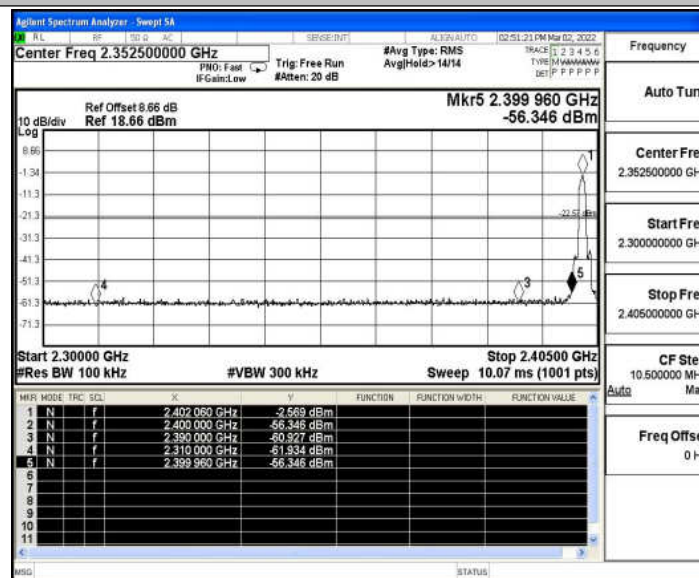
2DH5_Ant1_Low_Hop_2402



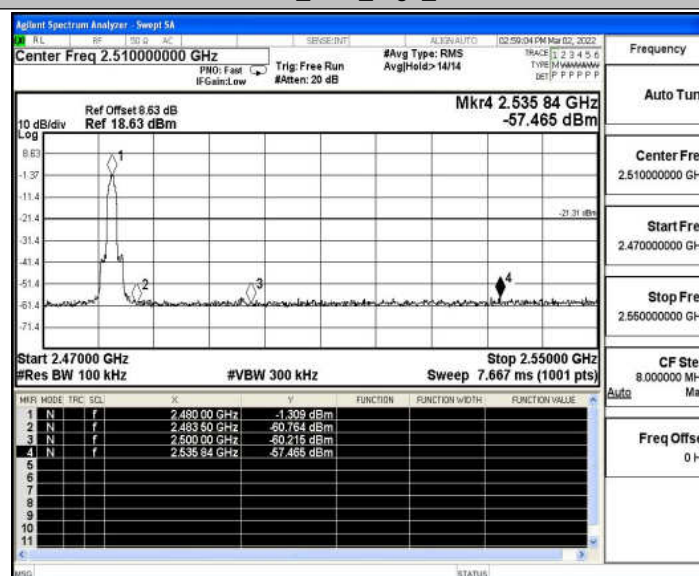
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

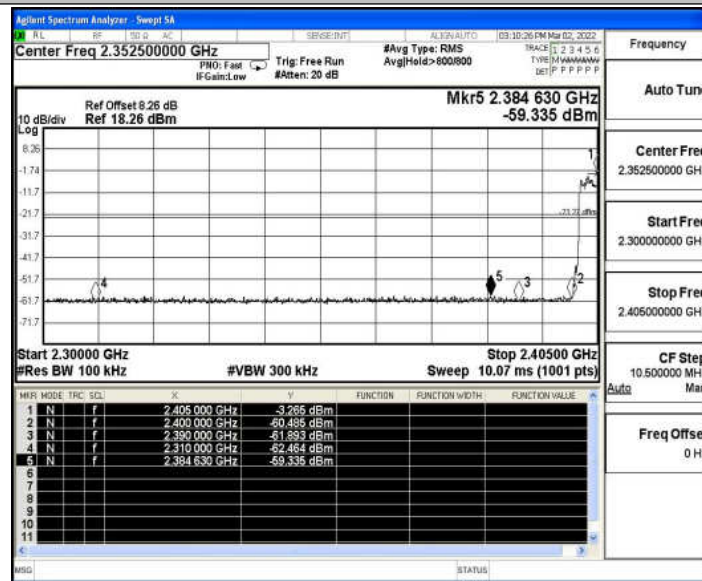


3DH5_Ant1_High_2480

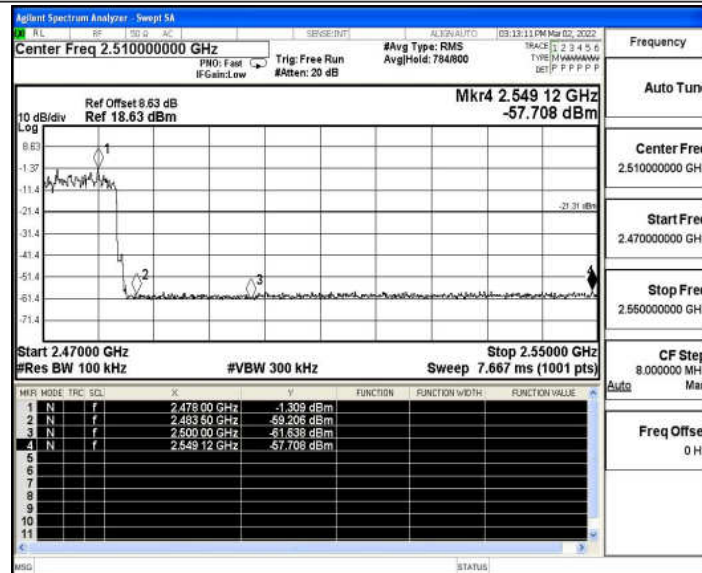




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

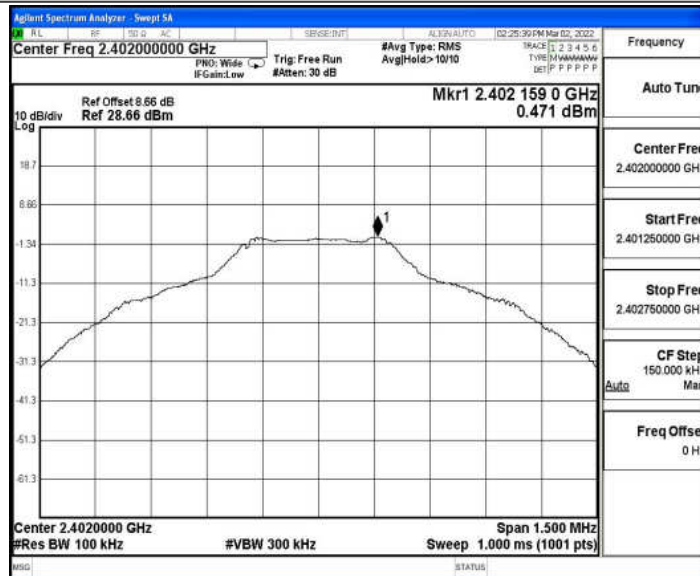
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.47	0.47	---	PASS
			30~1000	0.47	-52.95	≤ -19.53	PASS
			1000~26500	0.47	-46.02	≤ -19.53	PASS
		2441	Reference	1.78	1.78	---	PASS
			30~1000	1.78	-55.29	≤ -18.22	PASS
			1000~26500	1.78	-46.14	≤ -18.22	PASS
		2480	Reference	0.10	0.10	---	PASS
			30~1000	0.10	-54.56	≤ -19.9	PASS
			1000~26500	0.10	-46.59	≤ -19.9	PASS
2DH5	Ant1	2402	Reference	-1.10	-1.10	---	PASS
			30~1000	-1.10	-58.83	≤ -21.1	PASS
			1000~26500	-1.10	-46.3	≤ -21.1	PASS
		2441	Reference	0.14	0.14	---	PASS
			30~1000	0.14	-53.78	≤ -19.86	PASS
			1000~26500	0.14	-46.42	≤ -19.86	PASS
		2480	Reference	-1.62	-1.62	---	PASS
			30~1000	-1.62	-42.7	≤ -21.62	PASS
			1000~26500	-1.62	-46.54	≤ -21.62	PASS
3DH5	Ant1	2402	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-54.14	≤ -21.09	PASS
			1000~26500	-1.09	-46.24	≤ -21.09	PASS
		2441	Reference	0.29	0.29	---	PASS
			30~1000	0.29	-53.8	≤ -19.71	PASS
			1000~26500	0.29	-46.45	≤ -19.71	PASS
		2480	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-52.34	≤ -21.43	PASS
			1000~26500	-1.43	-46.64	≤ -21.43	PASS

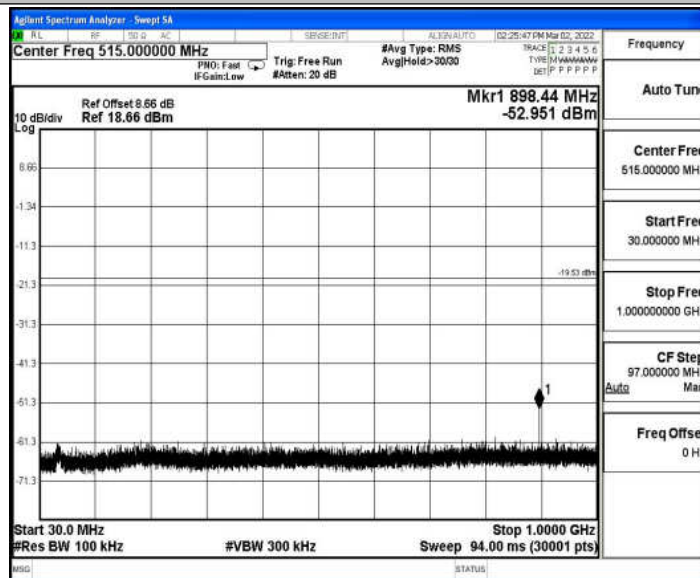


Test Graphs

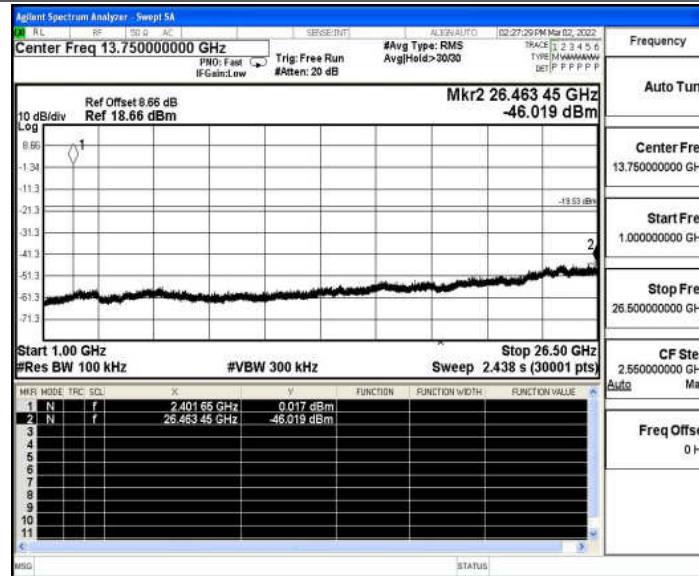
DH5_Ant1_2402_0~Reference



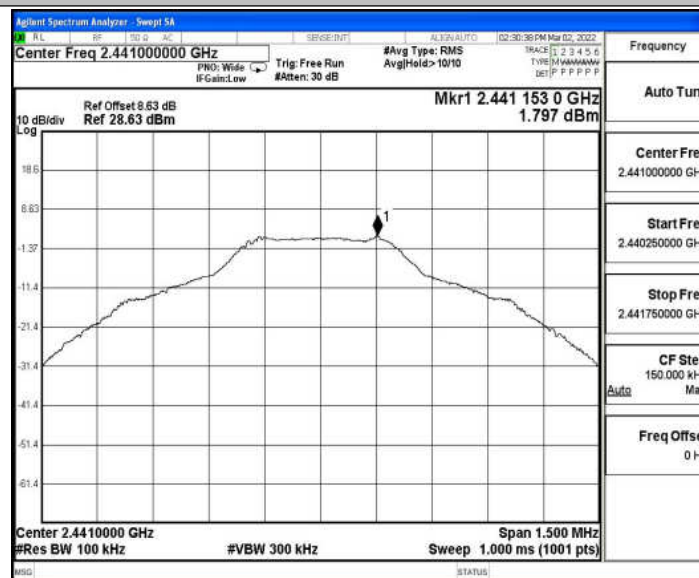
DH5_Ant1_2402_30~1000



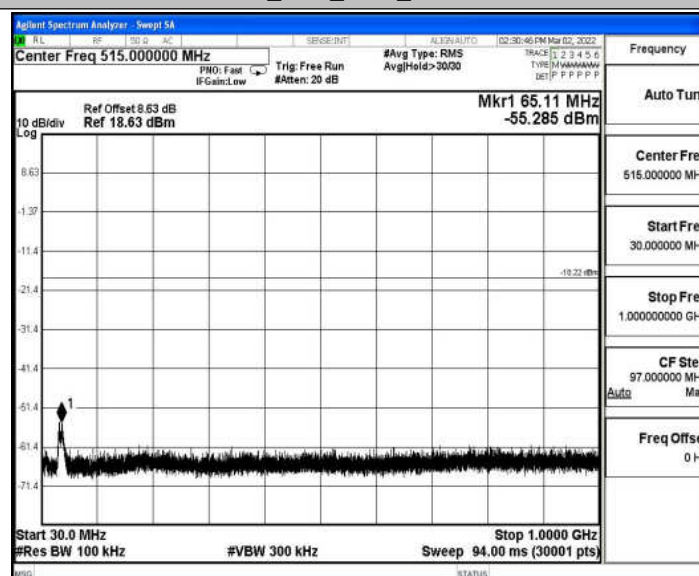
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference

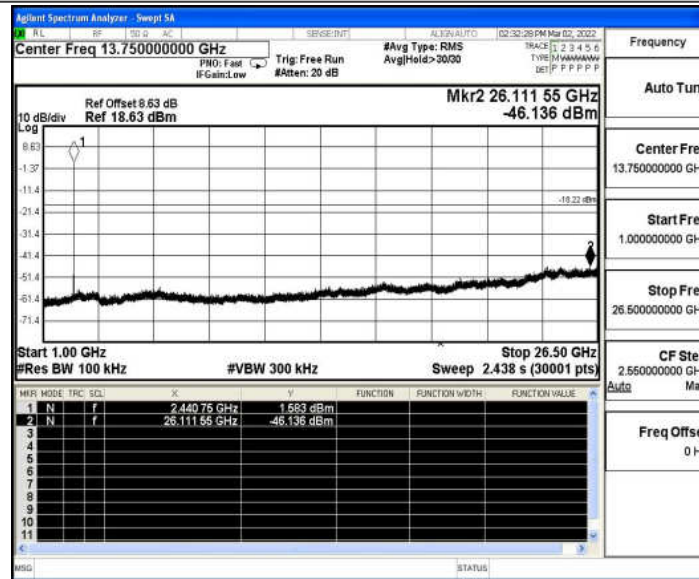


DH5_Ant1_2441_30~1000

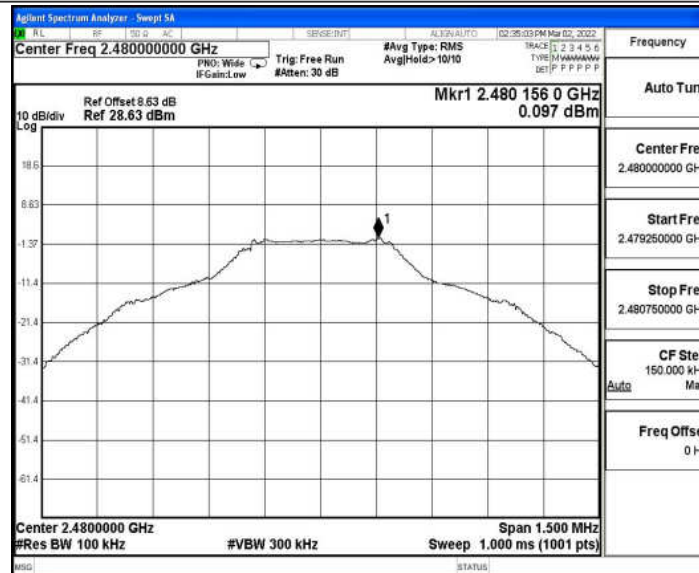




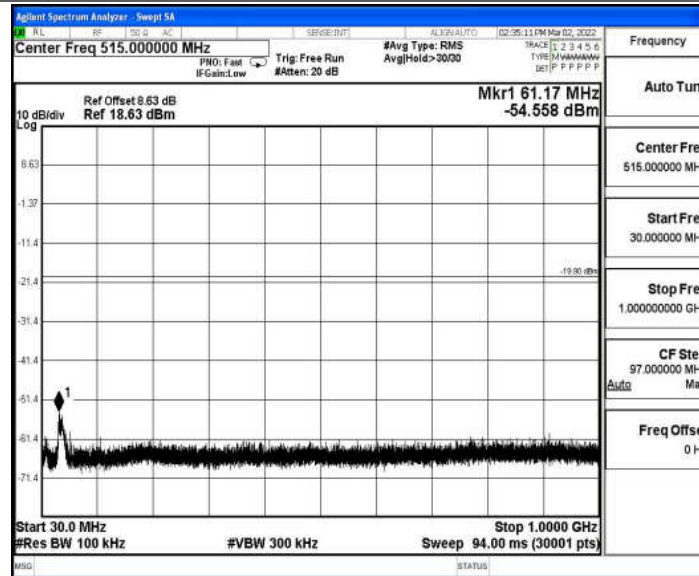
DH5_Ant1_2441_1000~26500



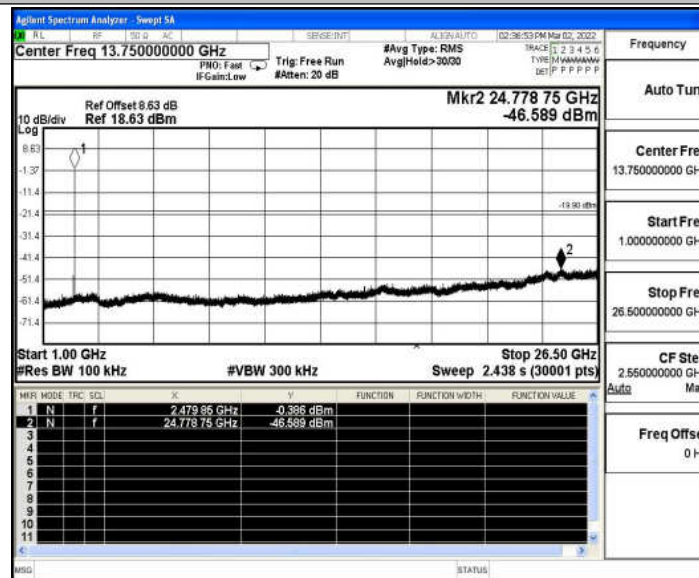
DH5_Ant1_2480_0~Reference



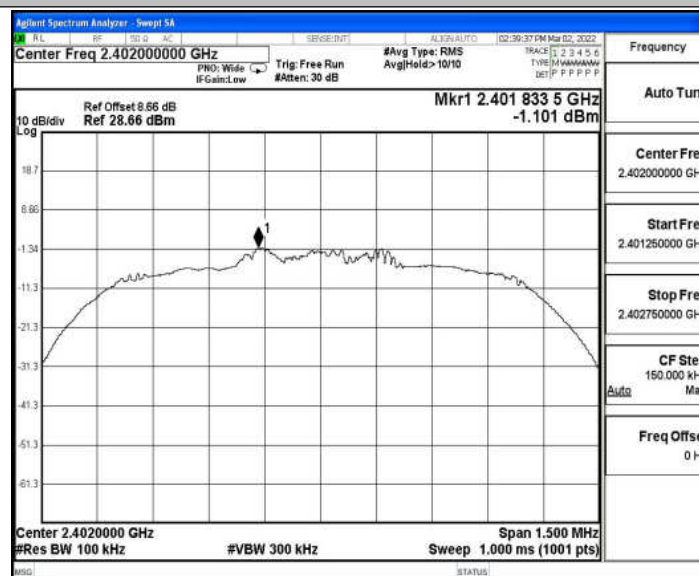
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

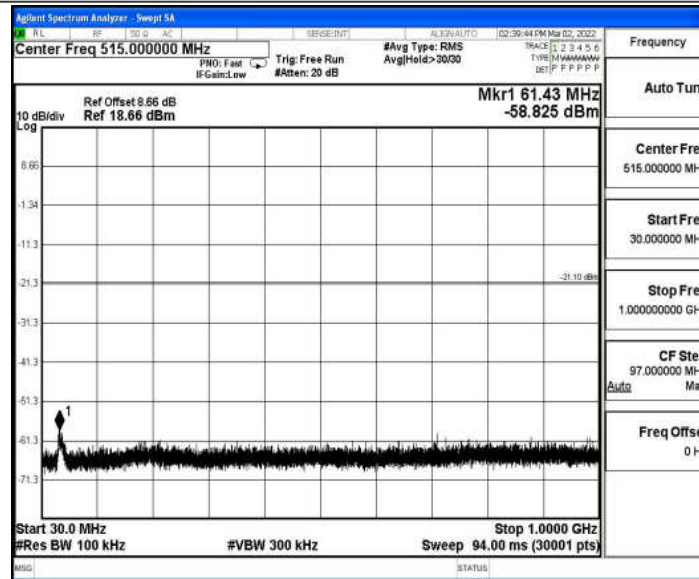


2DH5_Ant1_2402_0~Reference

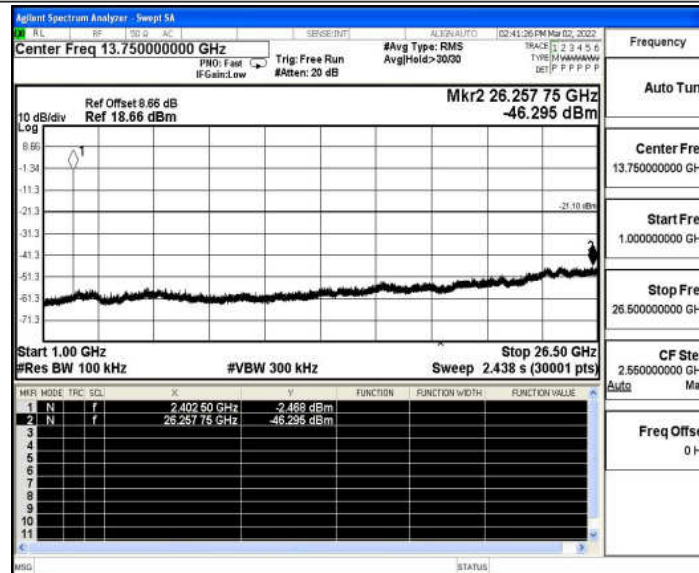




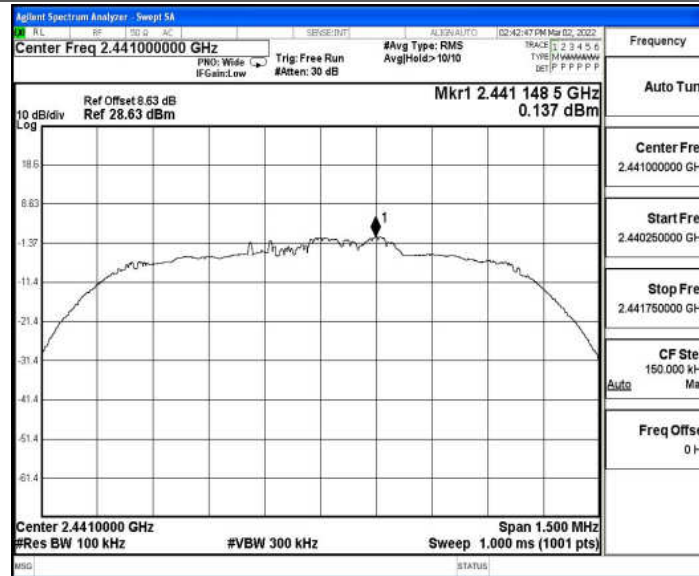
2DH5_Ant1_2402_30~1000



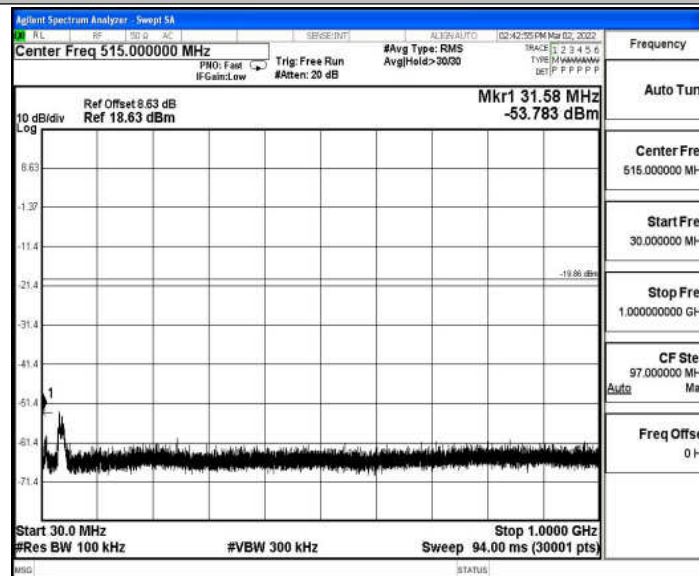
2DH5_Ant1_2402_1000~26500



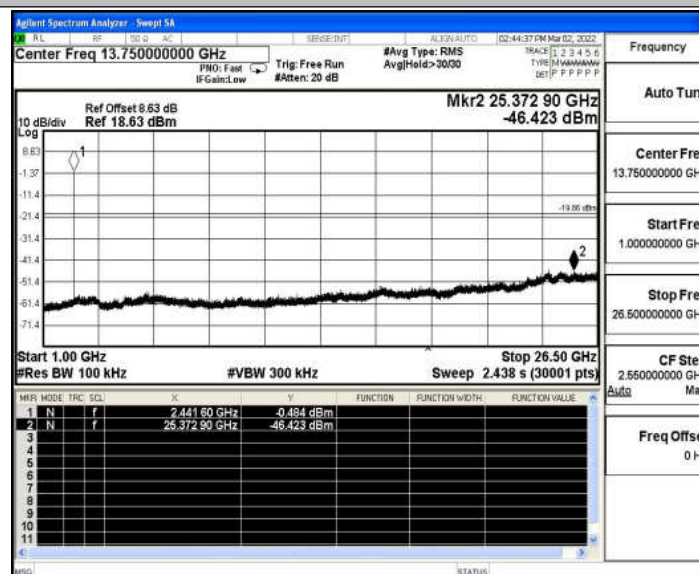
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

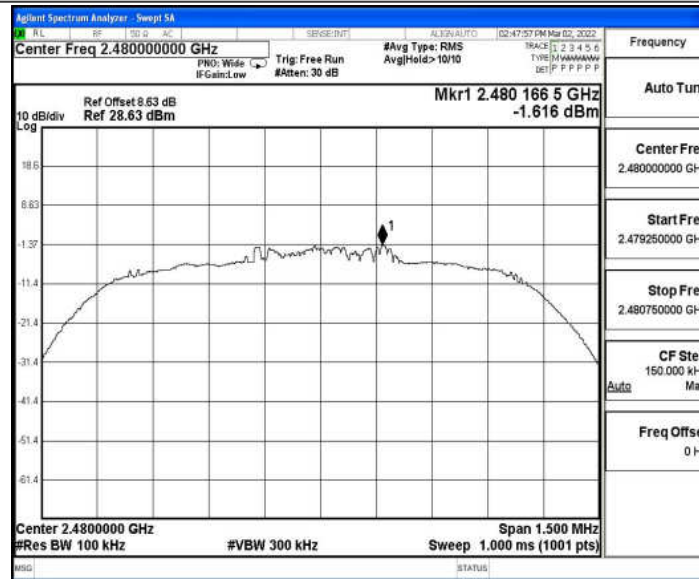


2DH5_Ant1_2441_1000~26500

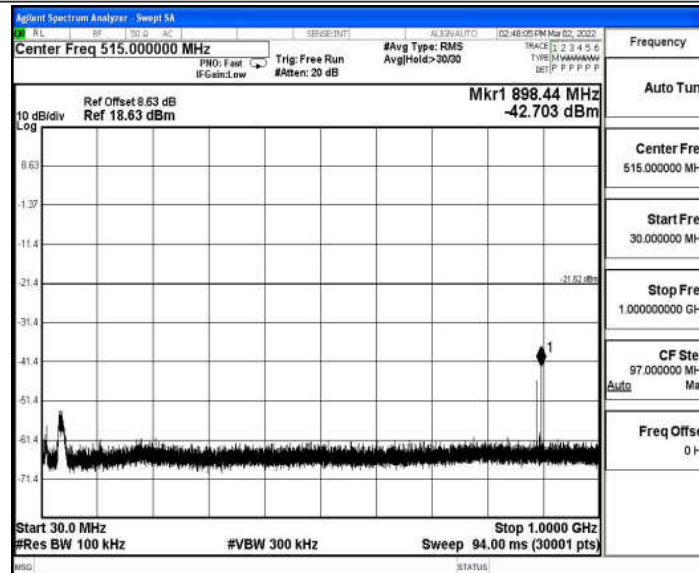




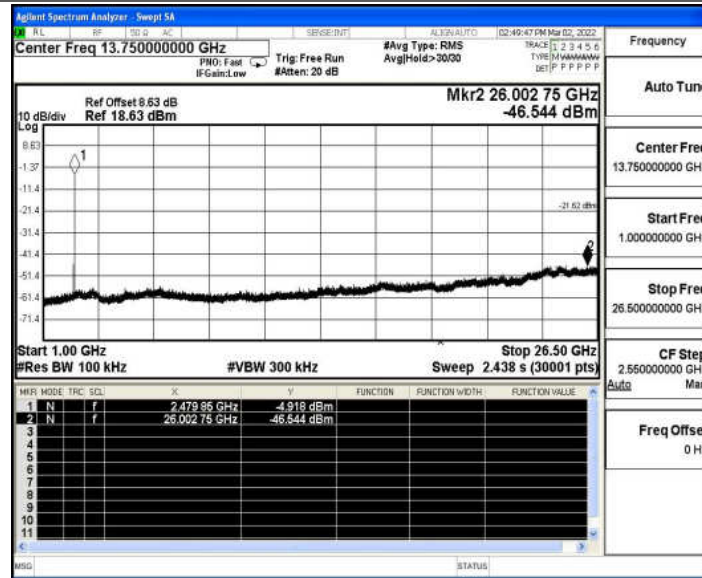
2DH5_Ant1_2480_0~Reference



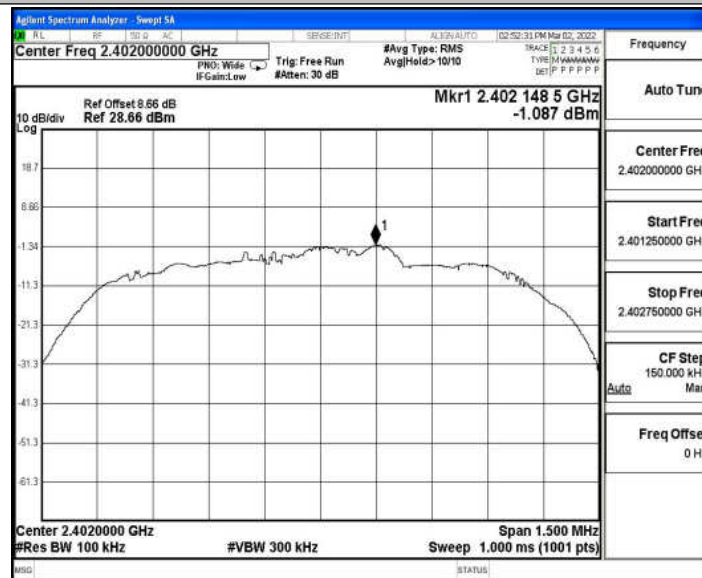
2DH5_Ant1_2480_30~1000



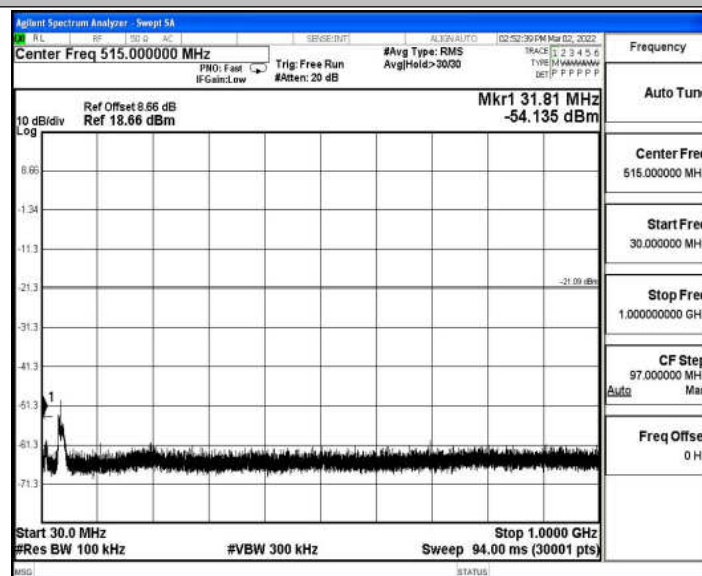
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

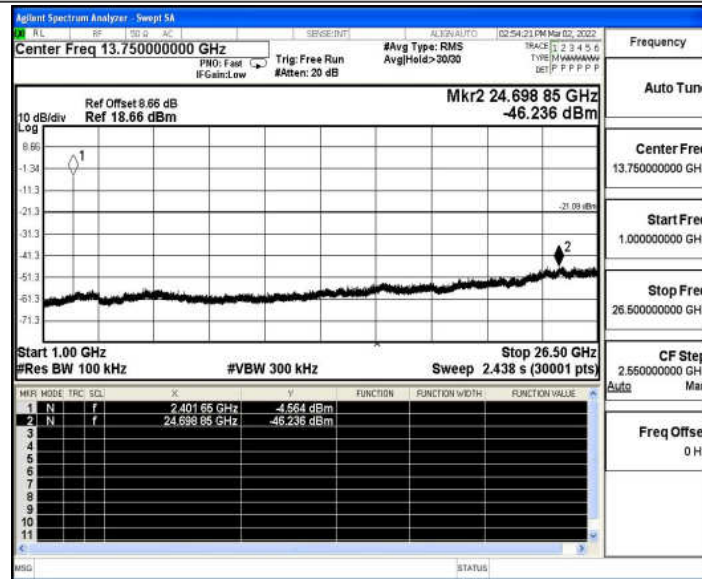


3DH5_Ant1_2402_30~1000

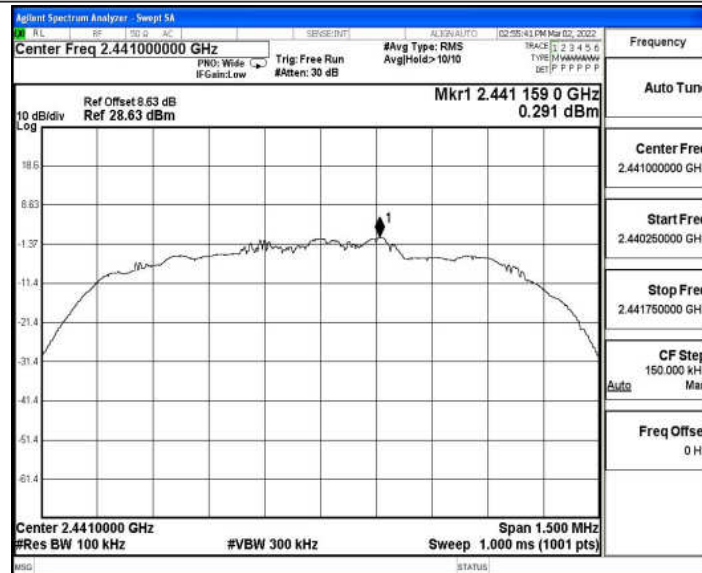




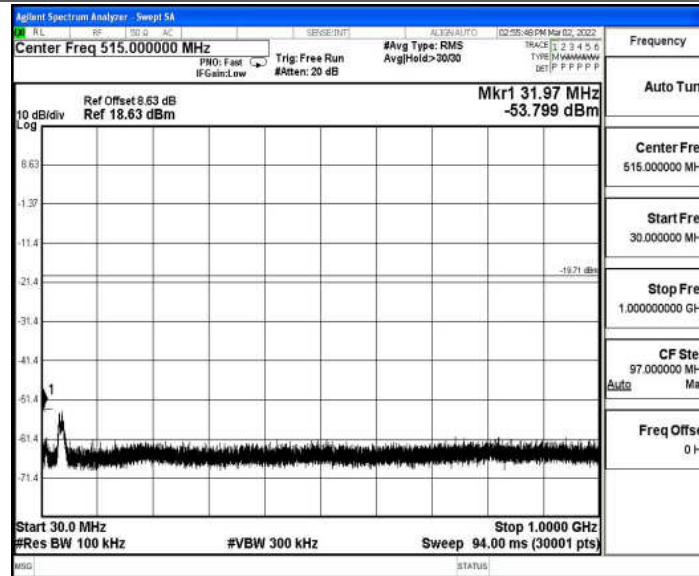
3DH5_Ant1_2402_1000~26500



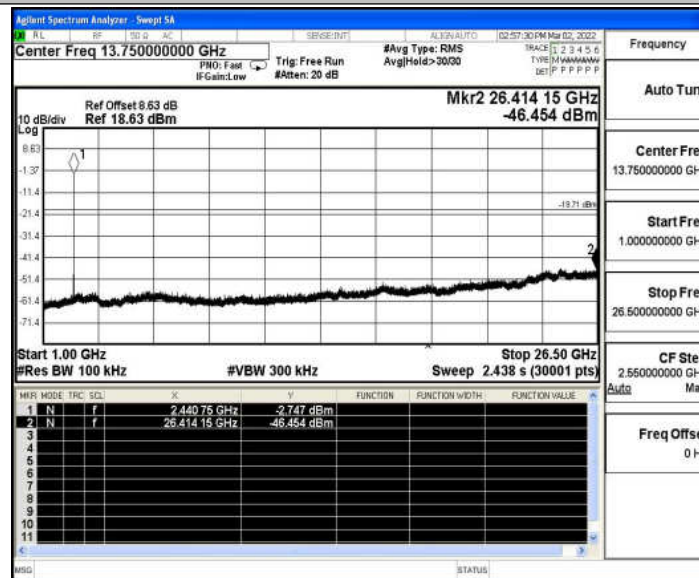
3DH5_Ant1_2441_0~Reference



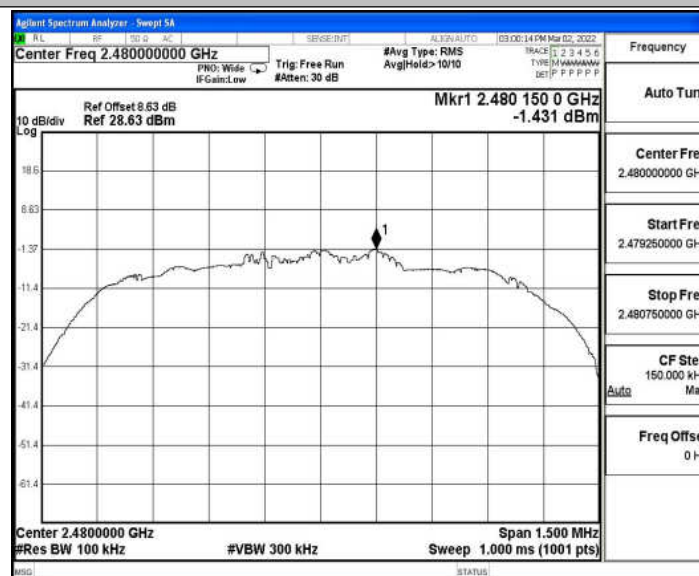
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

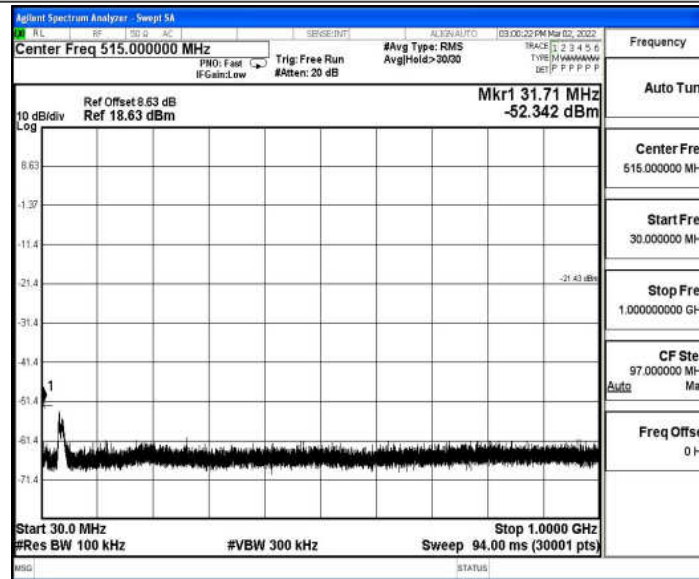


3DH5_Ant1_2480_0~Reference

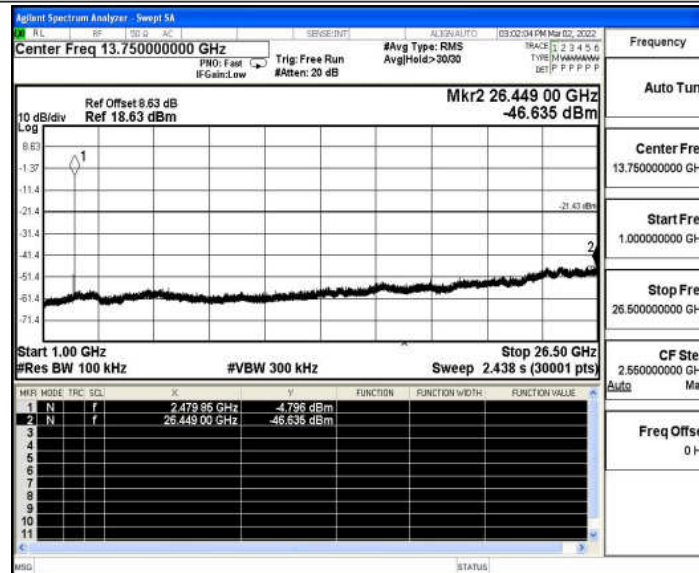




3DH5_Ant1_2480_30~1000



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	-58.16	≤-41.20	37.04	≤54	PASS
				AV	2388.830	-57.66	≤-41.20	37.54	≤54	PASS
				AV	2390.000	-57.68	≤-41.20	37.52	≤54	PASS
				Peak	2310.000	-48.69	≤-21.20	46.51	≤74	PASS
				Peak	2325.200	-46.62	≤-21.20	48.58	≤74	PASS
				Peak	2390.000	-47.76	≤-21.20	47.44	≤74	PASS
		High	2480	AV	2483.500	-55.06	≤-41.20	40.14	≤54	PASS
				AV	2483.520	-55.05	≤-41.20	40.15	≤54	PASS
				AV	2500.000	-57.24	≤-41.20	37.96	≤54	PASS
				Peak	2483.500	-47.53	≤-21.20	47.67	≤74	PASS
				Peak	2497.280	-45.78	≤-21.20	49.42	≤74	PASS
				Peak	2500.000	-46.23	≤-21.20	48.97	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-48.64	≤-21.20	46.56	≤74	PASS
				Peak	2362.055	-46.35	≤-21.20	48.85	≤74	PASS
				Peak	2390.000	-48.93	≤-21.20	46.27	≤74	PASS
		High	Hop_2480	Peak	2483.500	-47.57	≤-21.20	47.63	≤74	PASS
				Peak	2487.680	-45.94	≤-21.20	49.26	≤74	PASS
				Peak	2500.000	-47.37	≤-21.20	47.83	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-57.98	≤-41.20	37.22	≤54	PASS
				AV	2381.375	-57.56	≤-41.20	37.64	≤54	PASS
				AV	2390.000	-57.64	≤-41.20	37.56	≤54	PASS
				Peak	2310.000	-47.79	≤-21.20	47.41	≤74	PASS
				Peak	2388.725	-46.16	≤-21.20	49.04	≤74	PASS
				Peak	2390.000	-48.1	≤-21.20	47.10	≤74	PASS
		High	2480	AV	2483.500	-55.02	≤-41.20	40.18	≤54	PASS
				AV	2483.520	-55.02	≤-41.20	40.18	≤54	PASS
				AV	2500.000	-56.99	≤-41.20	38.21	≤54	PASS
				Peak	2483.500	-46.75	≤-21.20	48.45	≤74	PASS
				Peak	2497.840	-45.77	≤-21.20	49.43	≤74	PASS
				Peak	2500.000	-48.25	≤-21.20	46.95	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-48.77	≤-21.20	46.43	≤74	PASS
				Peak	2381.165	-46.6	≤-21.20	48.60	≤74	PASS
				Peak	2390.000	-48.94	≤-21.20	46.26	≤74	PASS
		High	Hop_2480	Peak	2483.500	-48.36	≤-21.20	46.84	≤74	PASS
				Peak	2484.160	-46.27	≤-21.20	48.93	≤74	PASS
				Peak	2500.000	-47.35	≤-21.20	47.85	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-58.15	≤-41.20	37.05	≤54	PASS



				AV	2389.250	-57.57	≤-41.20	37.63	≤54	PASS
				AV	2390.000	-57.76	≤-41.20	37.44	≤54	PASS
				Peak	2310.000	-48.97	≤-21.20	46.23	≤74	PASS
				Peak	2372.240	-45.94	≤-21.20	49.26	≤74	PASS
				Peak	2390.000	-48.02	≤-21.20	47.18	≤74	PASS
		High	2480	AV	2483.500	-54.91	≤-41.20	40.29	≤54	PASS
				AV	2483.520	-54.91	≤-41.20	40.29	≤54	PASS
				AV	2500.000	-57.23	≤-41.20	37.97	≤54	PASS
				Peak	2483.500	-47.3	≤-21.20	47.90	≤74	PASS
				Peak	2484.560	-45.74	≤-21.20	49.46	≤74	PASS
				Peak	2500.000	-48.31	≤-21.20	46.89	≤74	PASS
		Low	Hop_24 02	Peak	2310.000	-48.18	≤-21.20	47.02	≤74	PASS
				Peak	2316.695	-46.5	≤-21.20	48.70	≤74	PASS
				Peak	2390.000	-49.21	≤-21.20	45.99	≤74	PASS
		High	Hop_24 80	Peak	2483.500	-47.47	≤-21.20	47.73	≤74	PASS
				Peak	2499.360	-46.3	≤-21.20	48.90	≤74	PASS
				Peak	2500.000	-47.73	≤-21.20	47.47	≤74	PASS

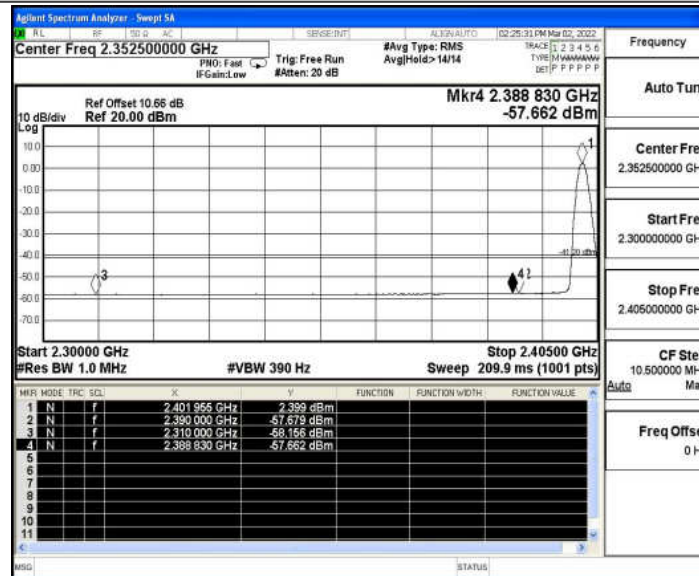
Note:

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.

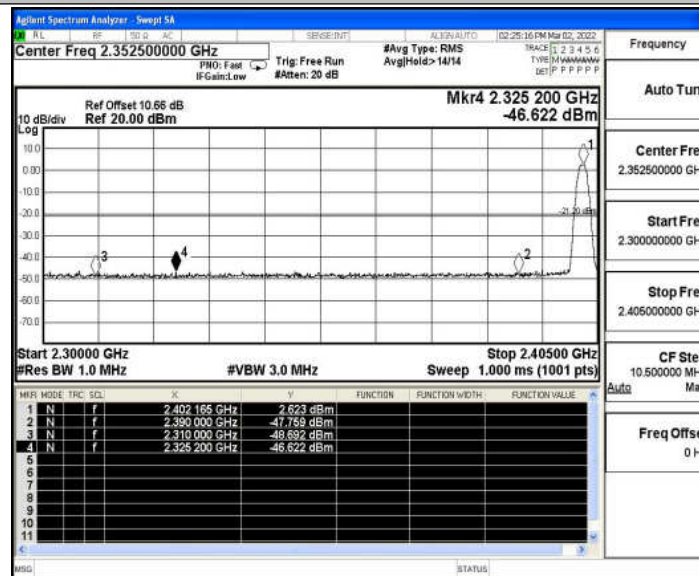


Test Graphs

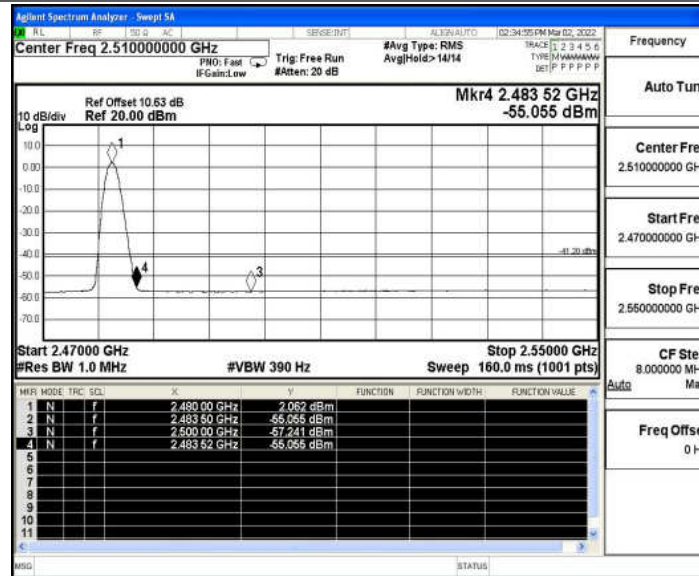
DH5_Ant1_Low_2402_AV



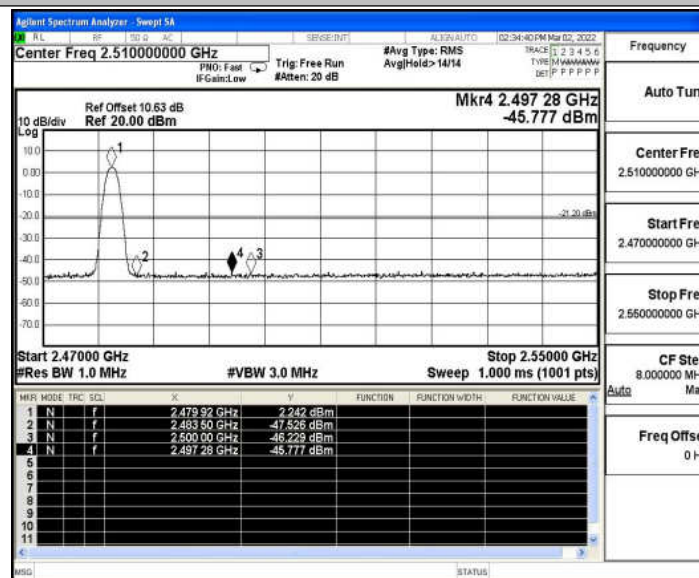
DH5_Ant1_Low_2402_Peak



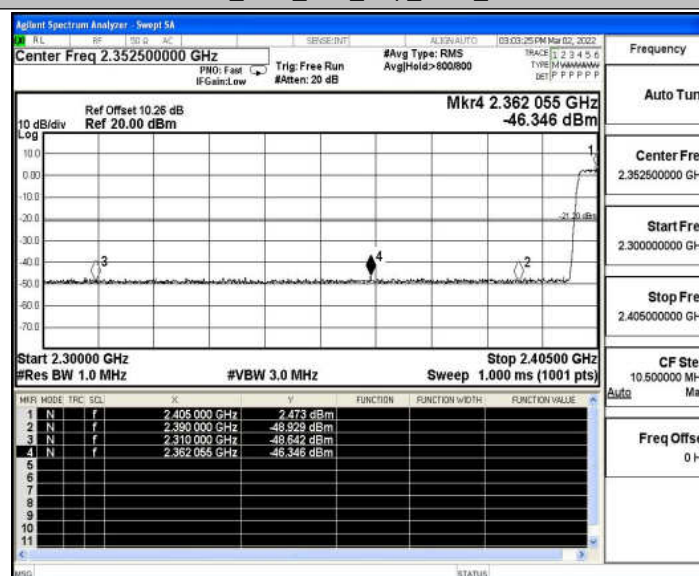
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

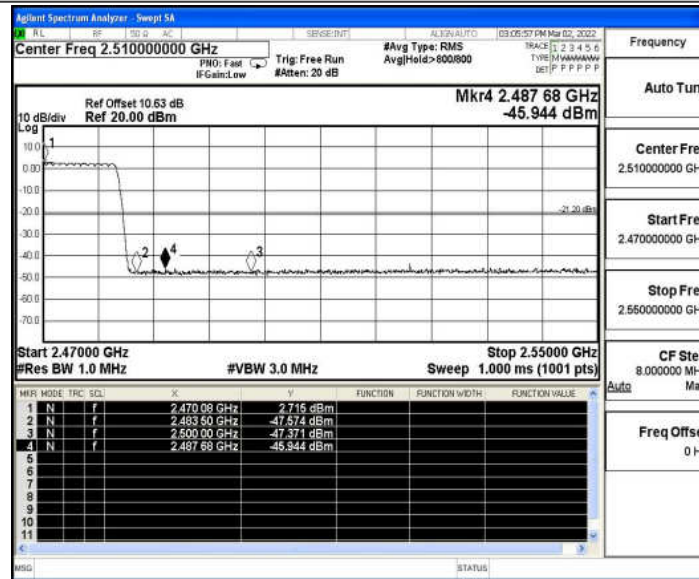


DH5_Ant1_Low_Hop_2402_Peak

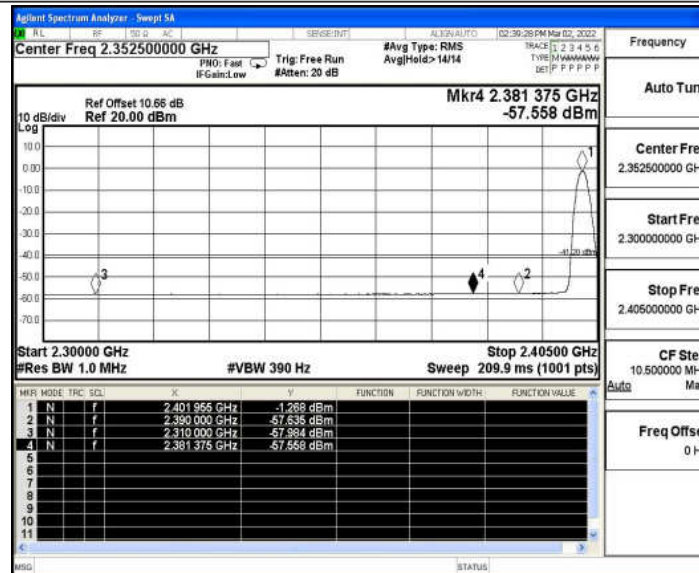




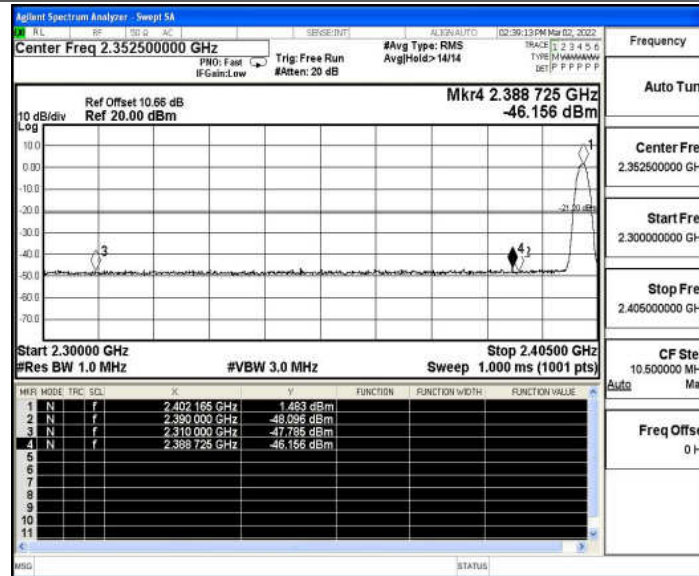
DH5_Ant1_High_Hop_2480_Peak



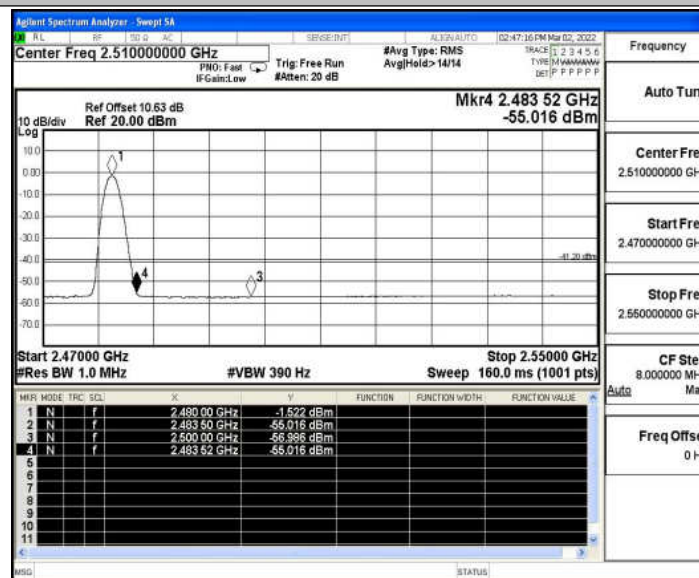
2DH5_Ant1_Low_2402_AV



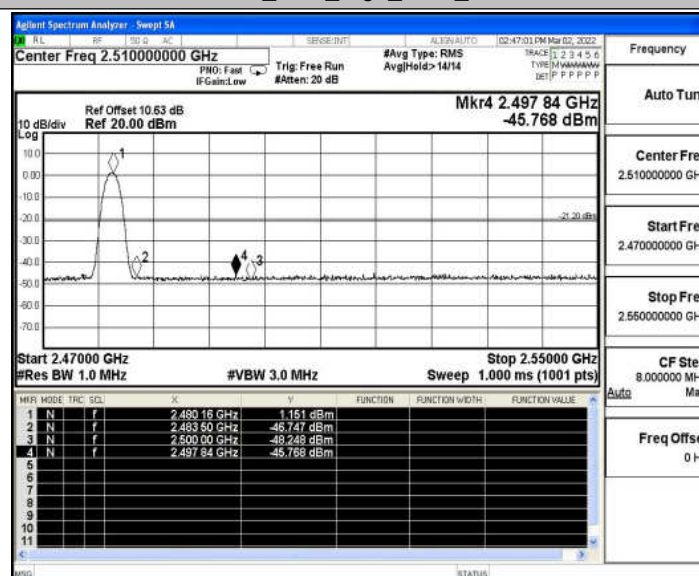
2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

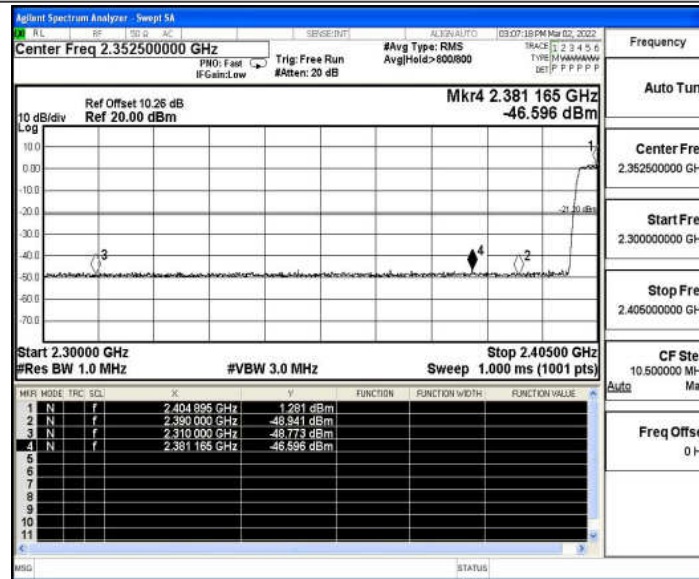


2DH5_Ant1_High_2480_Peak

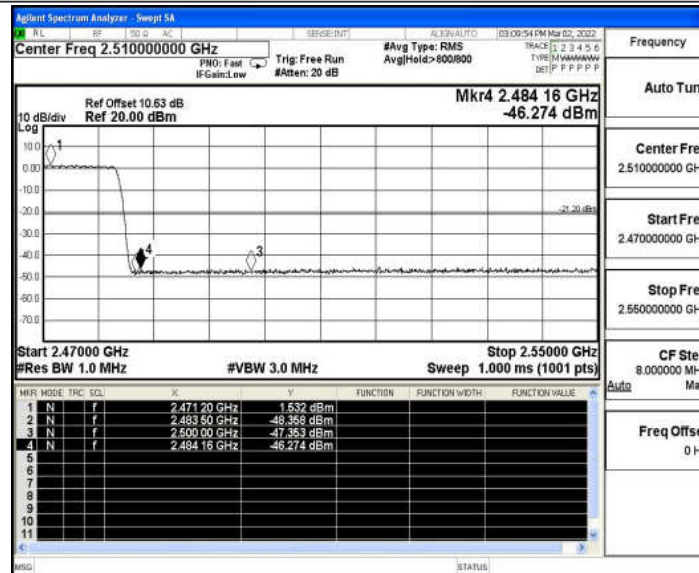




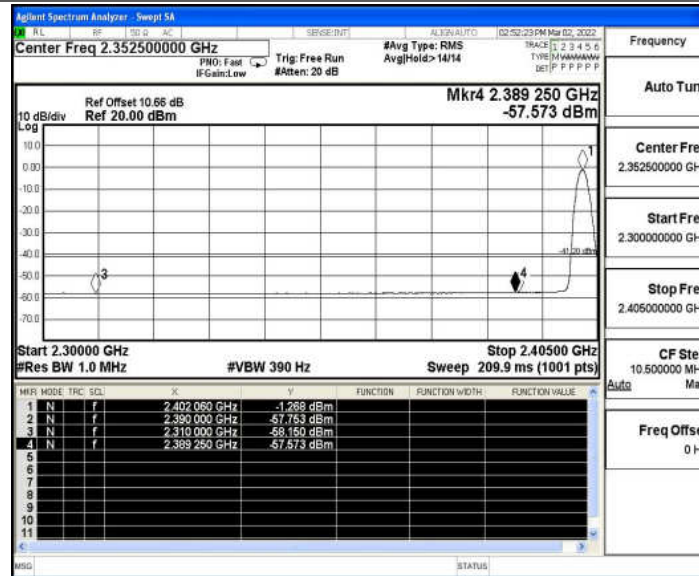
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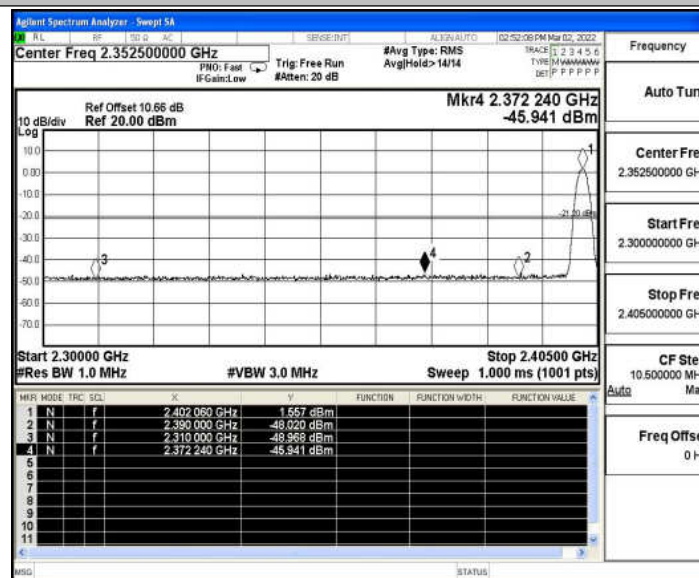
2DH5_Ant1_High_Hop_2480_Peak



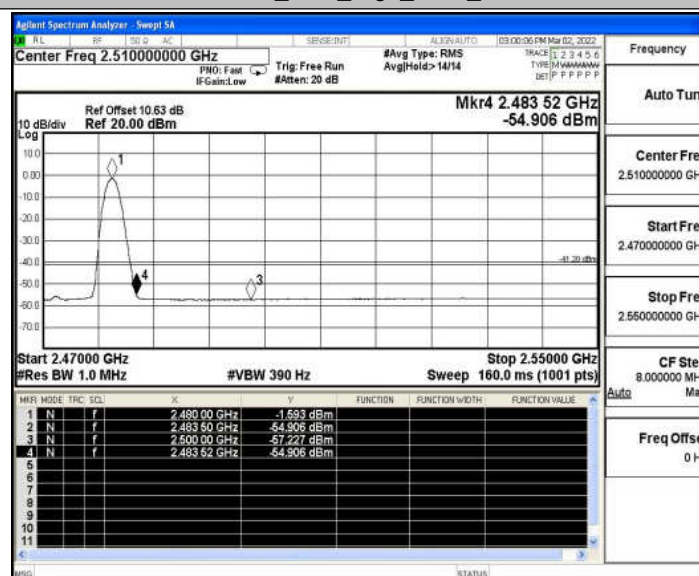
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak

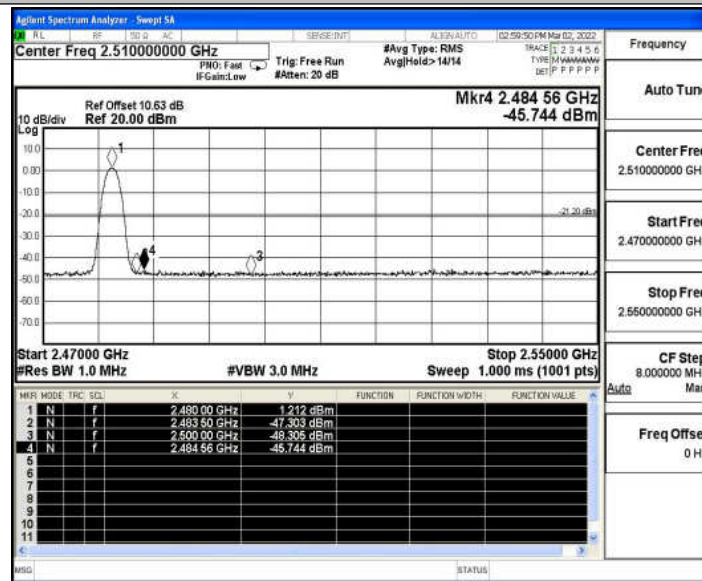


3DH5_Ant1_High_2480_AV

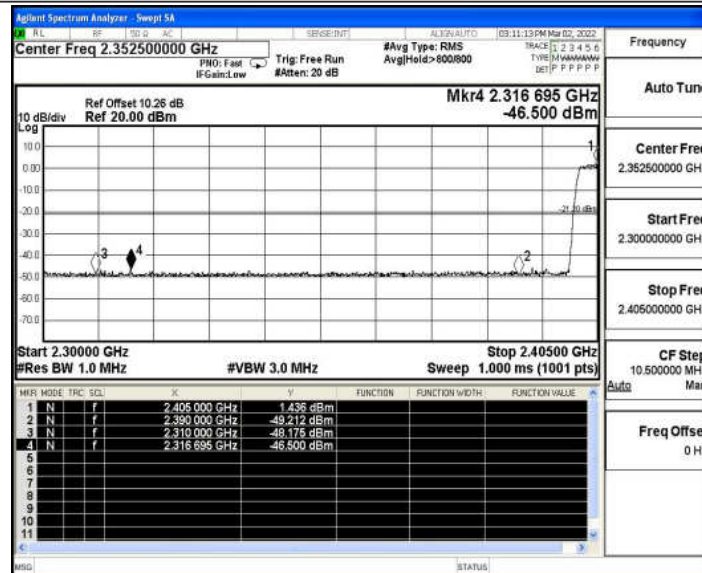




3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak



3DH5_Ant1_High_Hop_2480_Peak

