



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Aeye-P4

Test Model: JBV-ME20301A

Environmental Conditions

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



A.1 20dB Emission Bandwidth

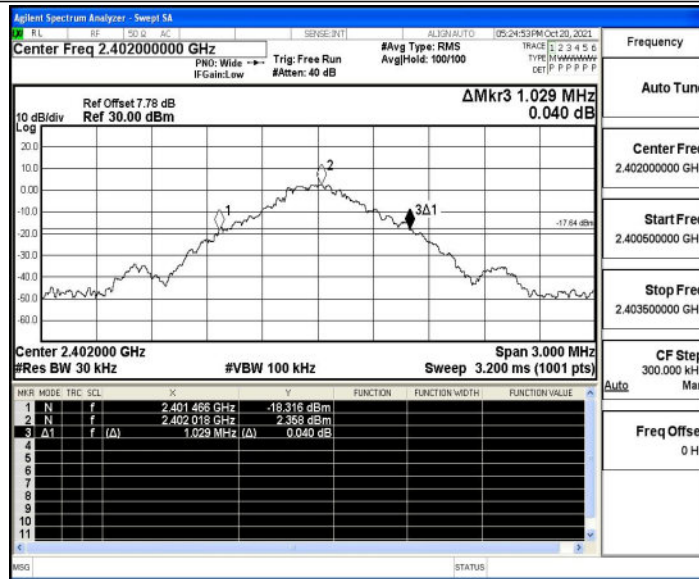
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.029	2401.466	2402.495	---	PASS
		2441	0.933	2440.538	2441.471	---	PASS
		2480	1.026	2479.466	2480.492	---	PASS
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	PASS
		2441	1.320	2440.337	2441.657	---	PASS
		2480	1.326	2479.334	2480.660	---	PASS
3DH5	Ant1	2402	1.332	2401.334	2402.666	---	PASS
		2441	1.347	2440.325	2441.672	---	PASS
		2480	1.344	2479.328	2480.672	---	PASS

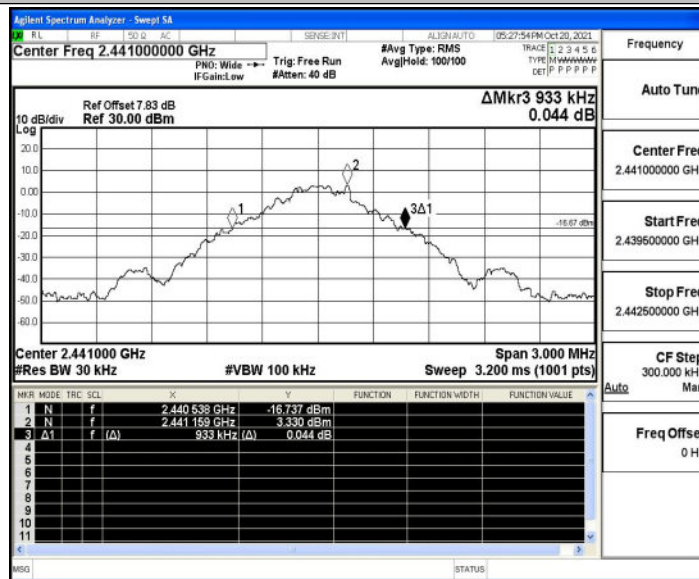


Test Graphs

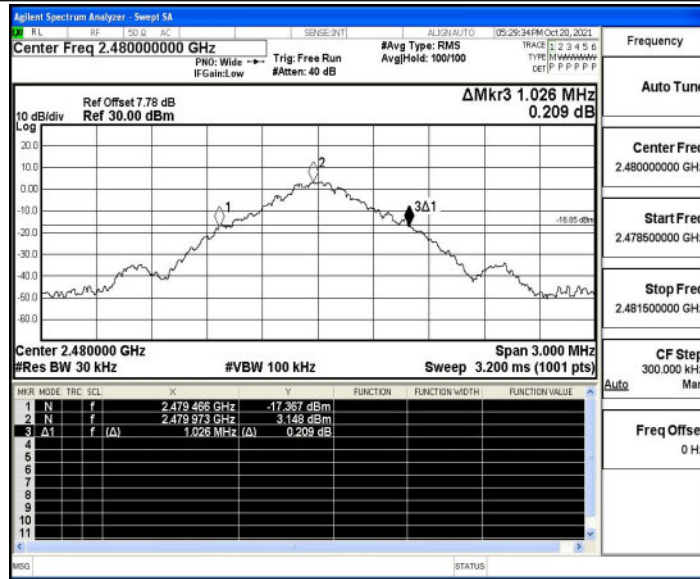
DH5_Ant1_2402



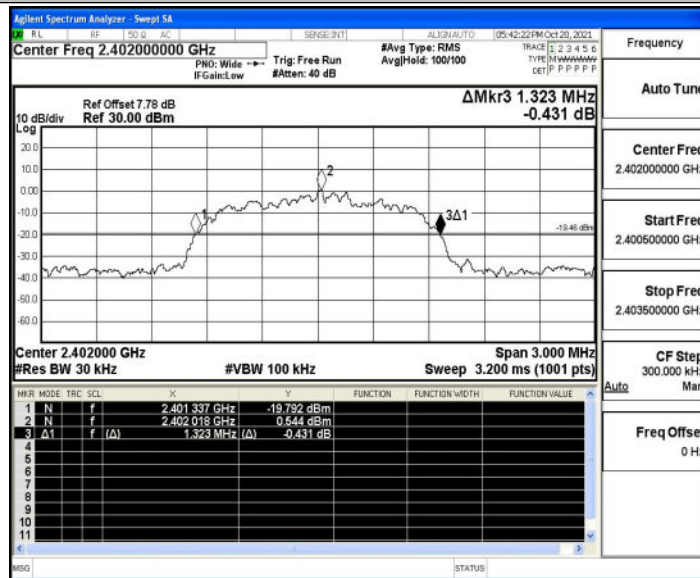
DH5_Ant1_2441



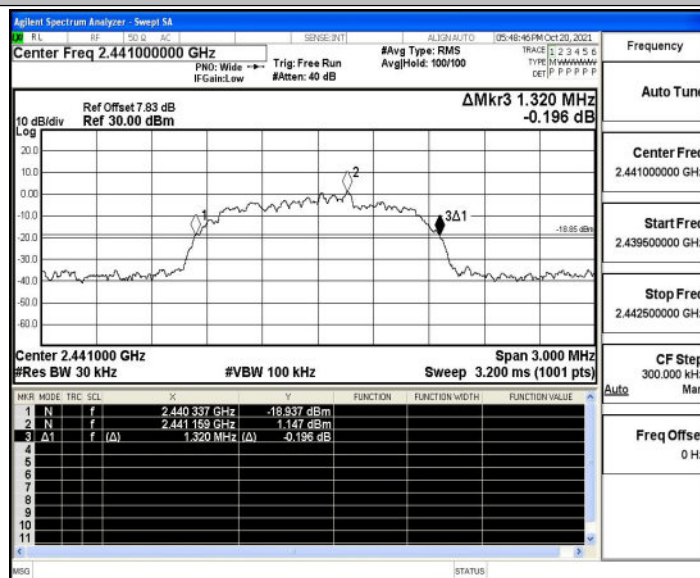
DH5_Ant1_2480



2DH5_Ant1_2402

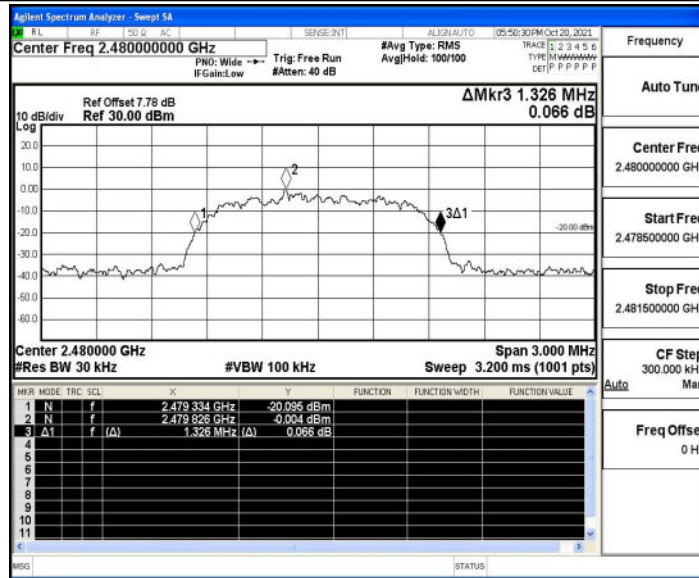


2DH5_Ant1_2441

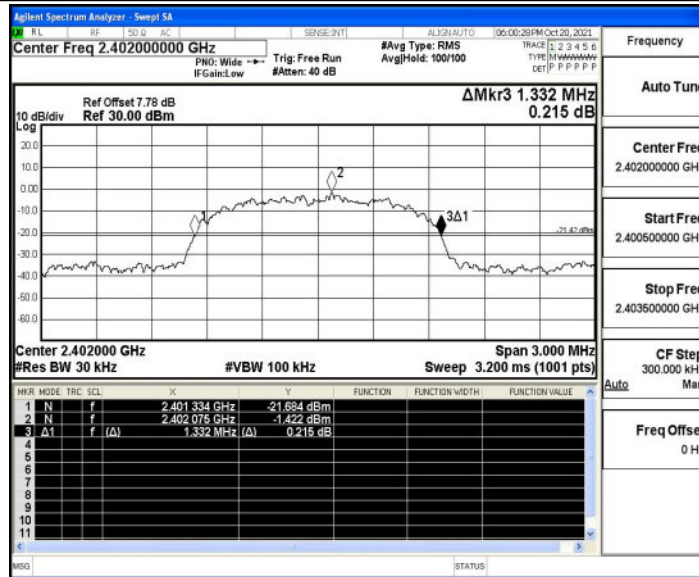




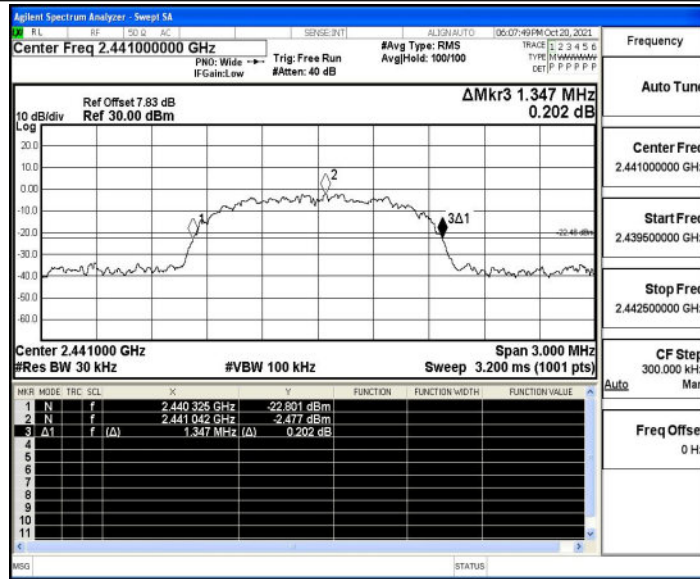
2DH5_Ant1_2480



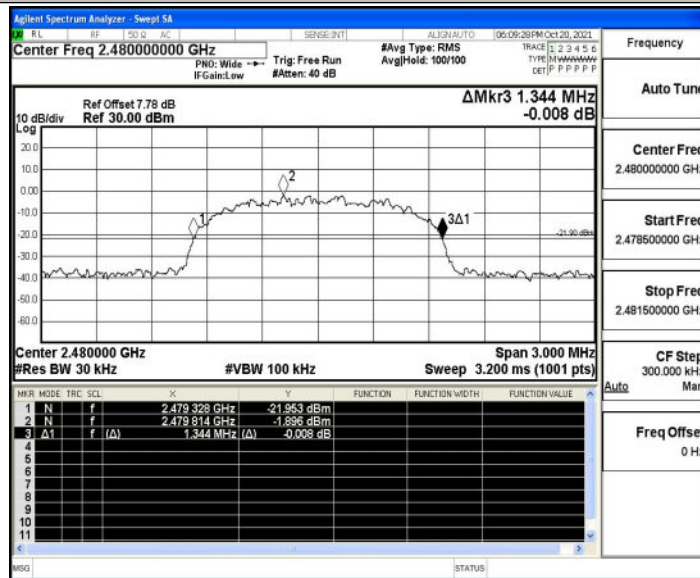
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480





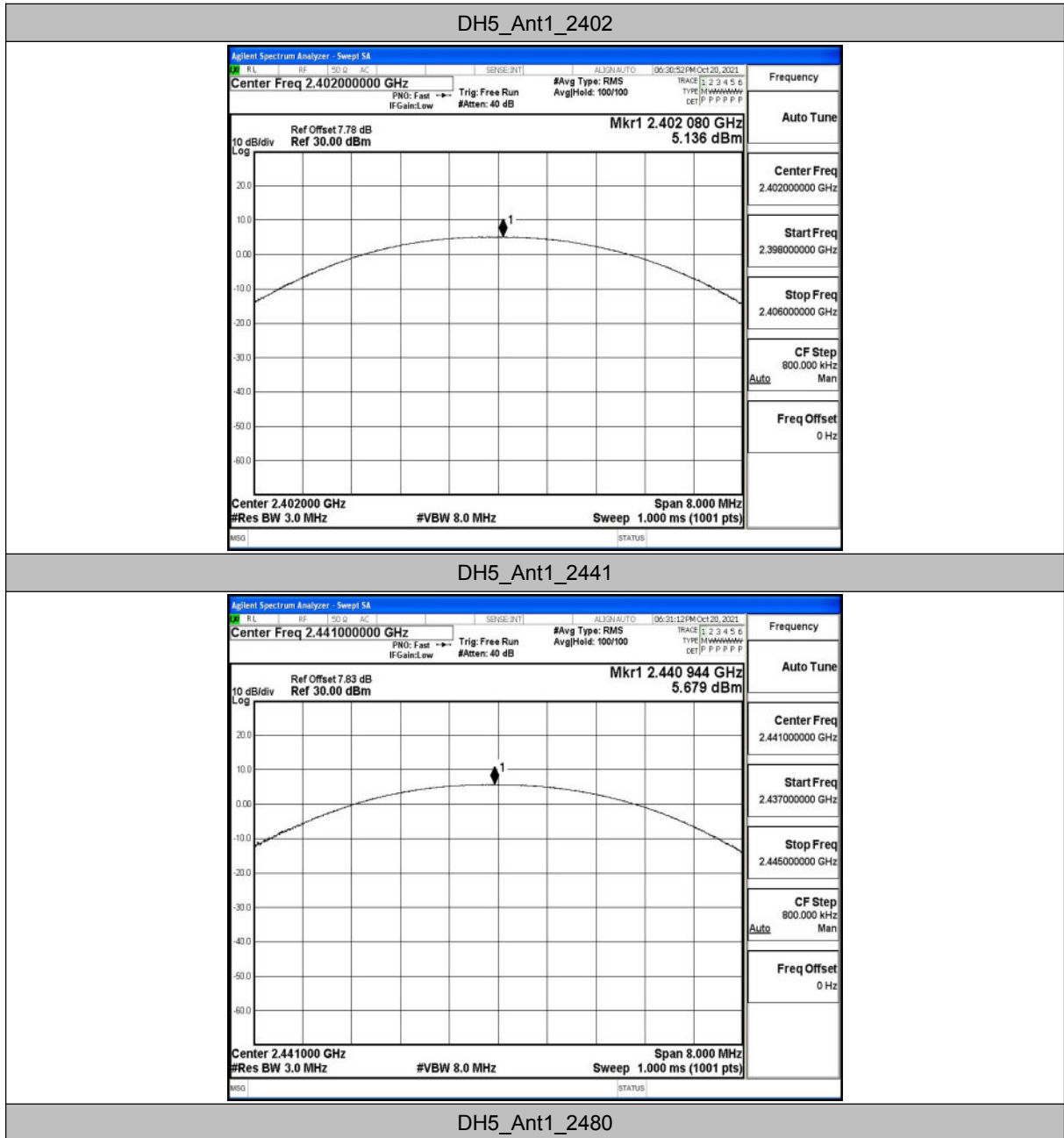
A.2 Maximum conducted output power

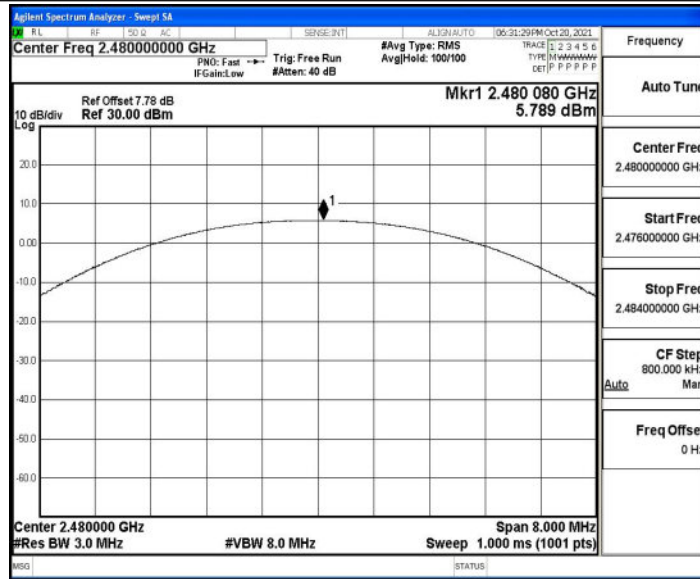
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	5.14	≤20.97	PASS
		2441	5.68	≤20.97	PASS
		2480	5.79	≤20.97	PASS
2DH5	Ant1	2402	4.89	≤20.97	PASS
		2441	5.51	≤20.97	PASS
		2480	5.52	≤20.97	PASS
3DH5	Ant1	2402	5.04	≤20.97	PASS
		2441	5.44	≤20.97	PASS
		2480	5.58	≤20.97	PASS

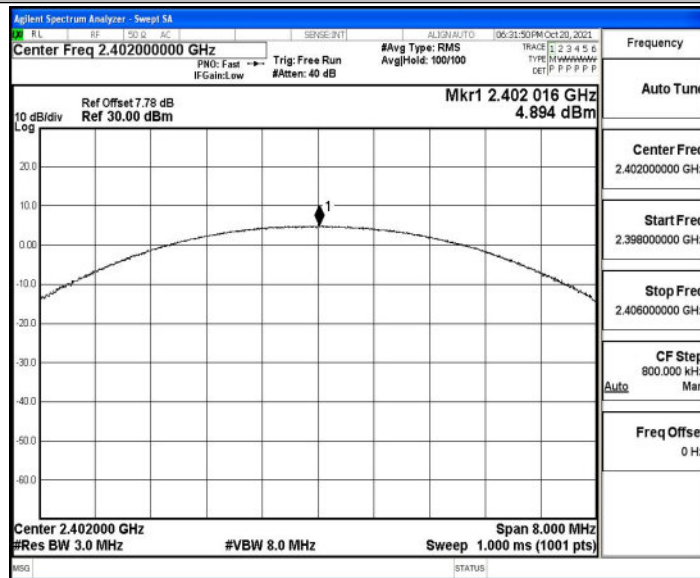


Test Graphs

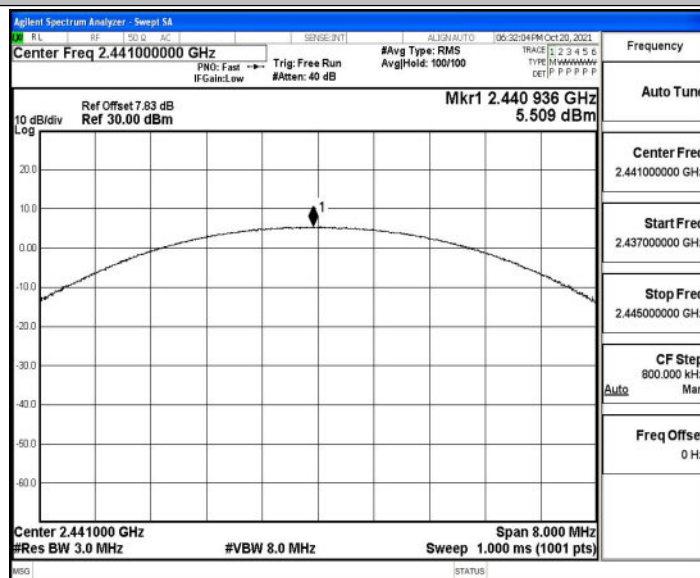




2DH5_Ant1_2402

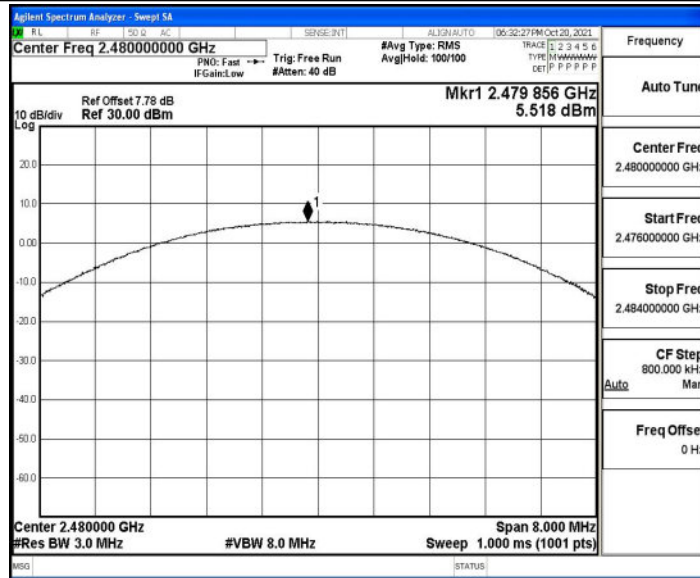


2DH5_Ant1_2441

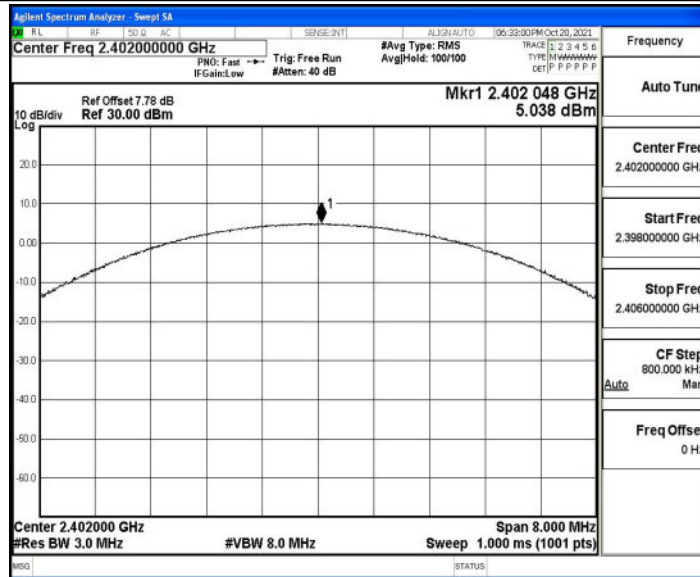




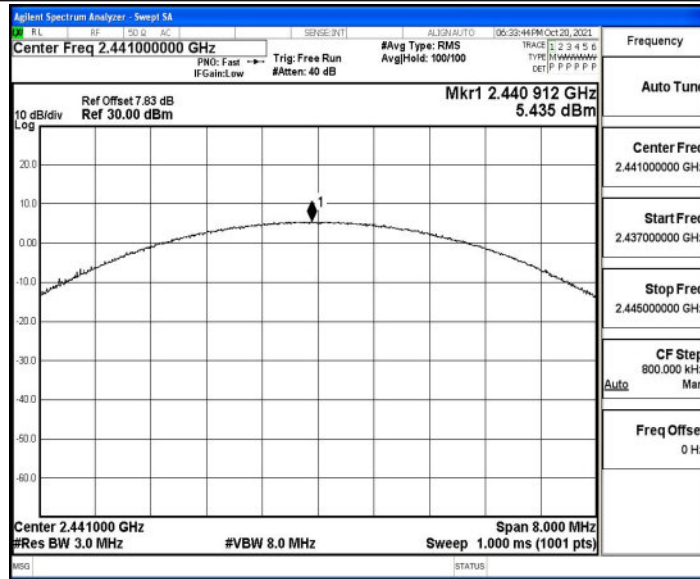
2DH5_Ant1_2480



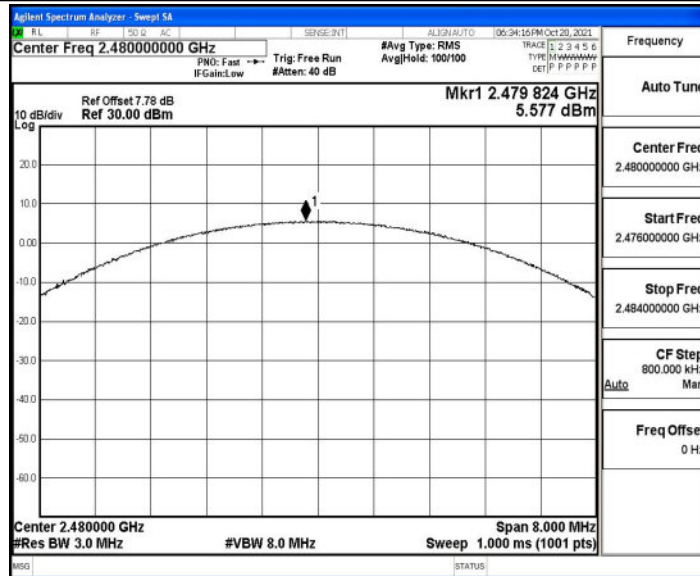
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



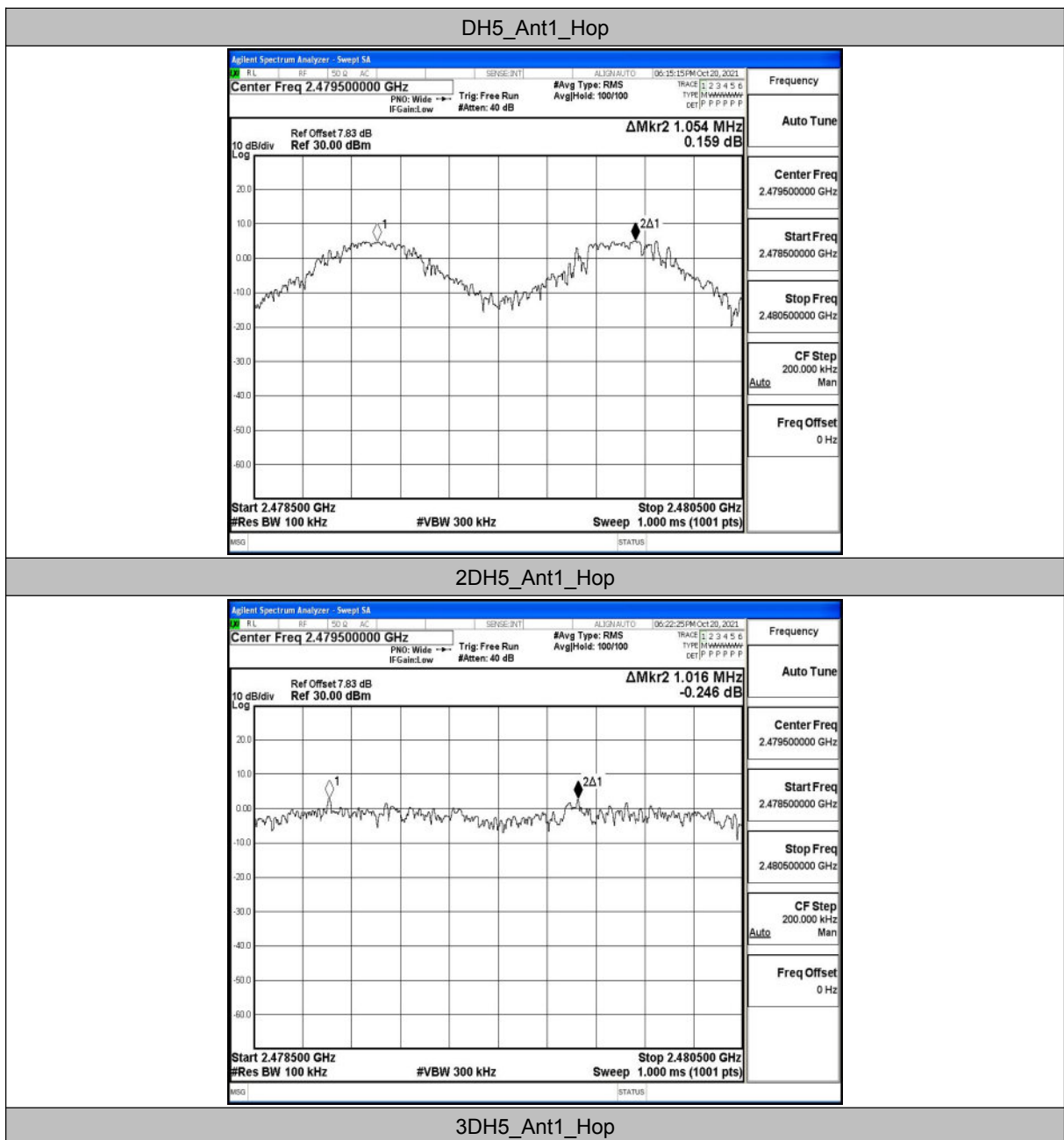


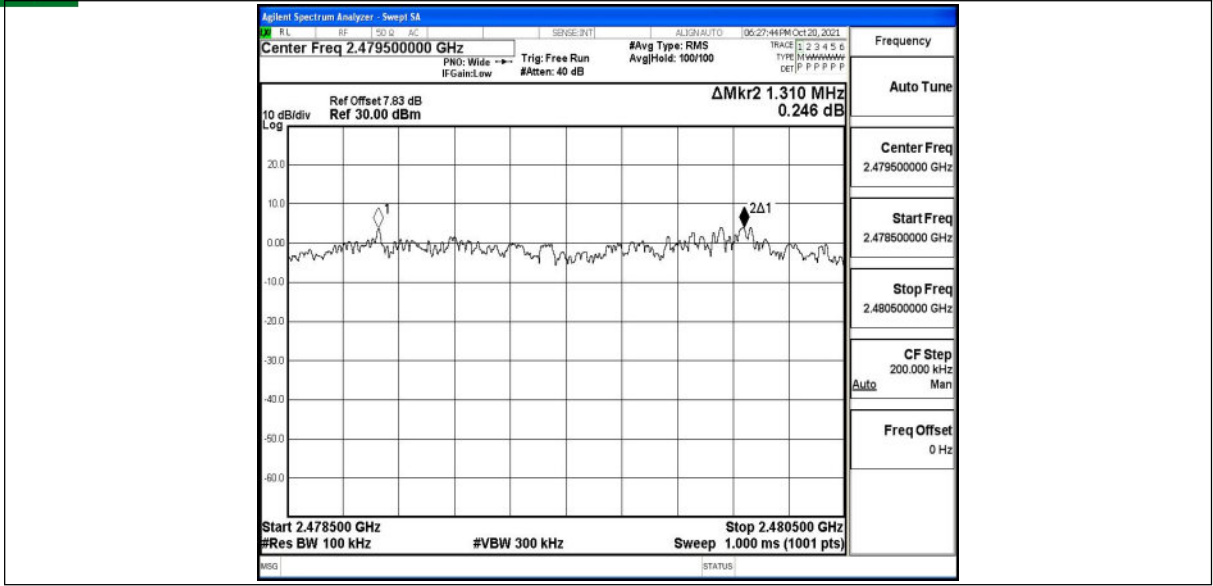
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.054	≥0.686	PASS
2DH5	Ant1	Hop	1.016	≥0.884	PASS
3DH5	Ant1	Hop	1.31	≥0.898	PASS

Test Graphs





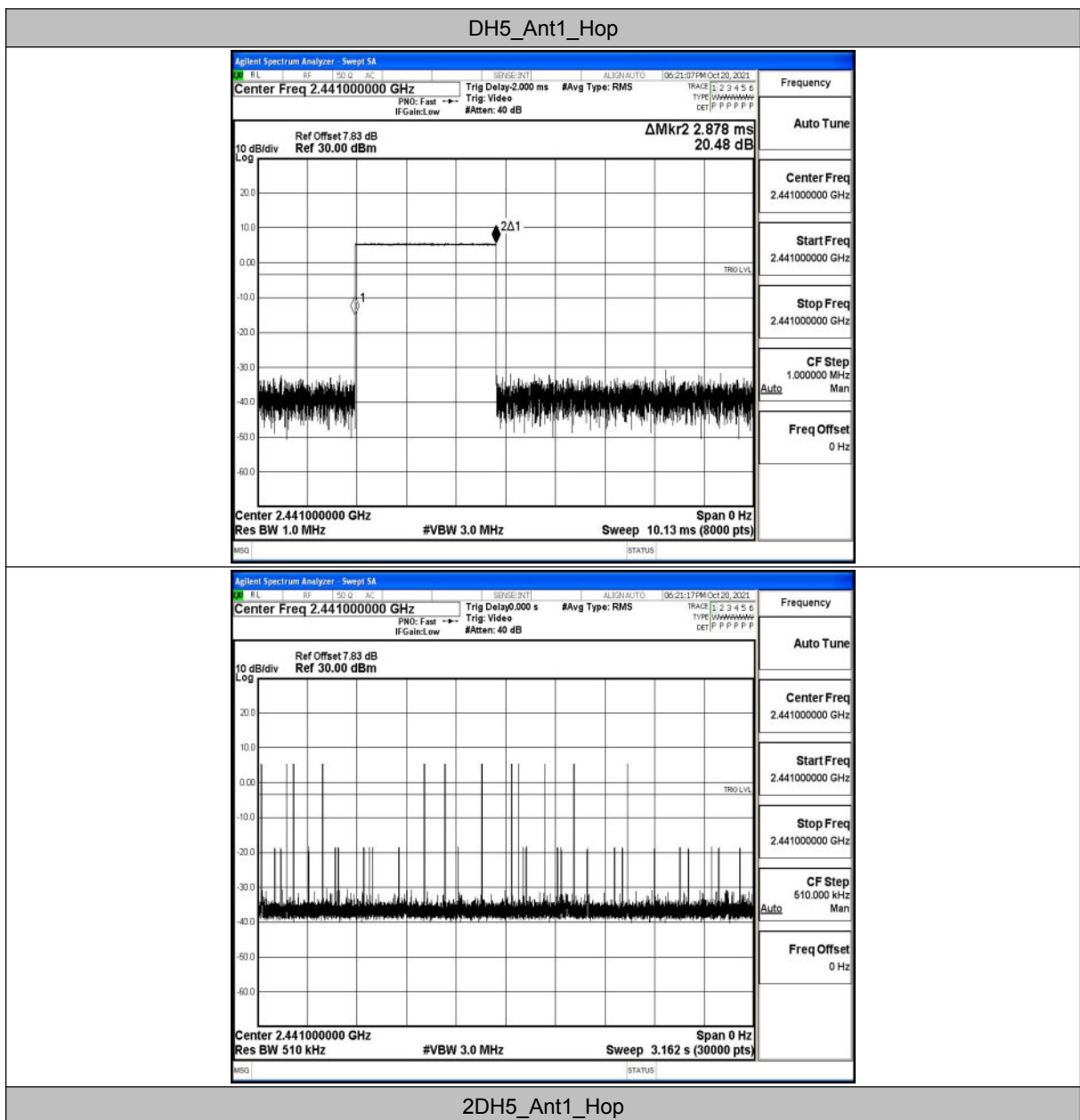


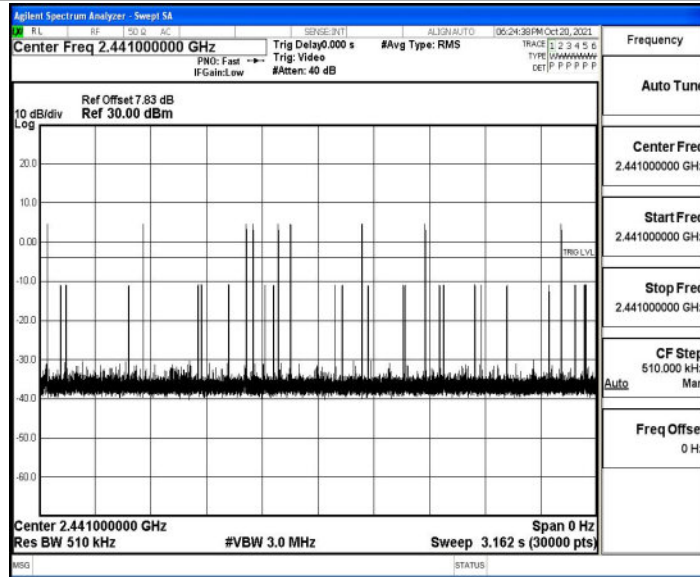
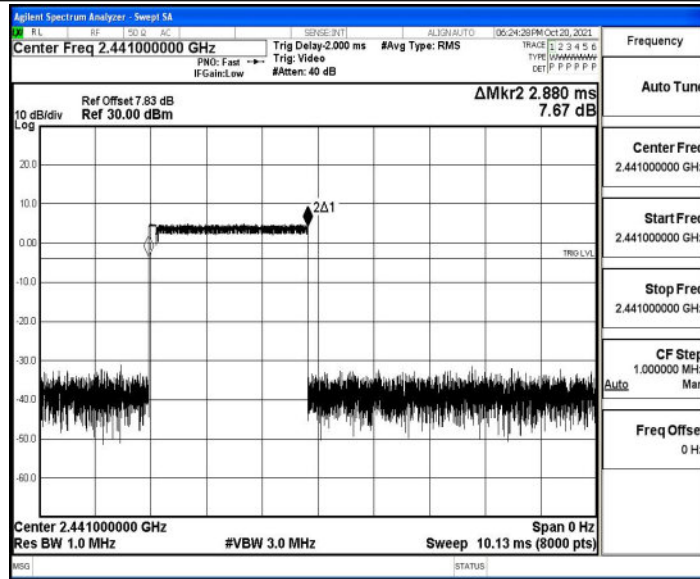
A.4 Time of occupancy

Test Result

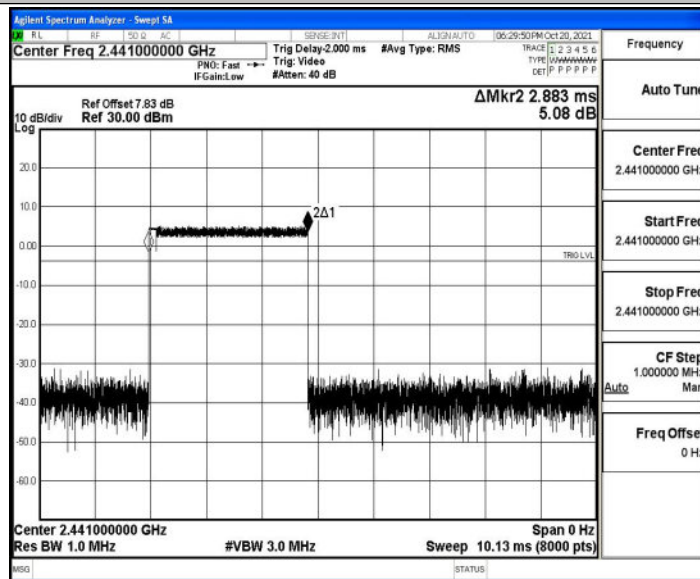
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	130	0.374	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS

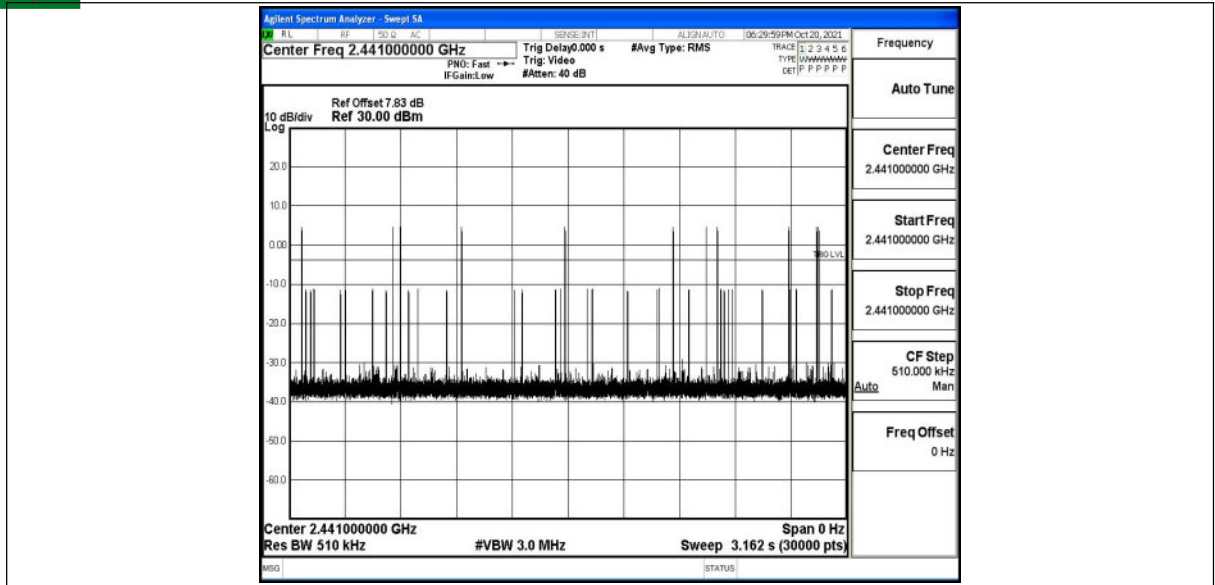
Test Graphs





3DH5_Ant1_Hop





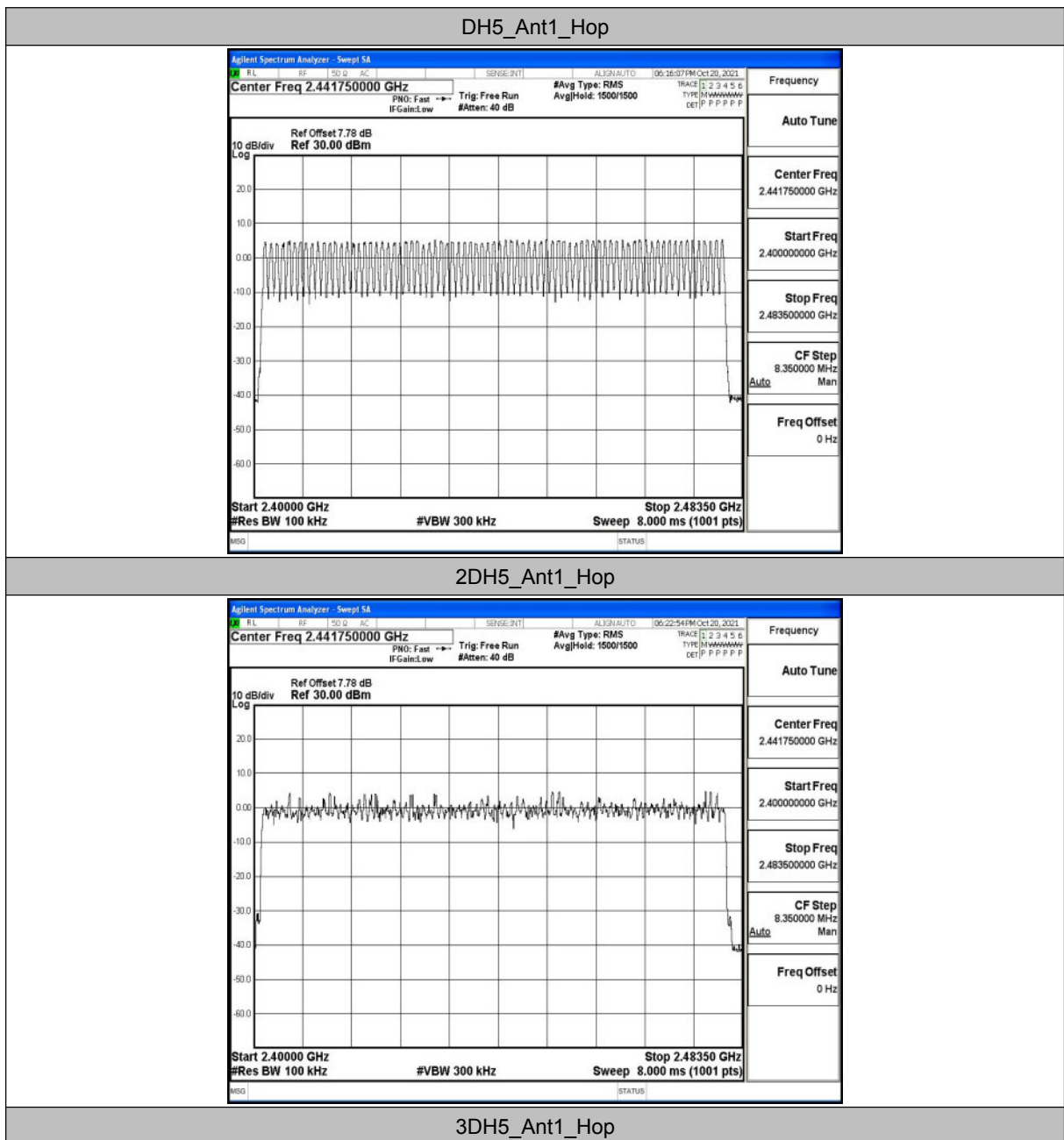


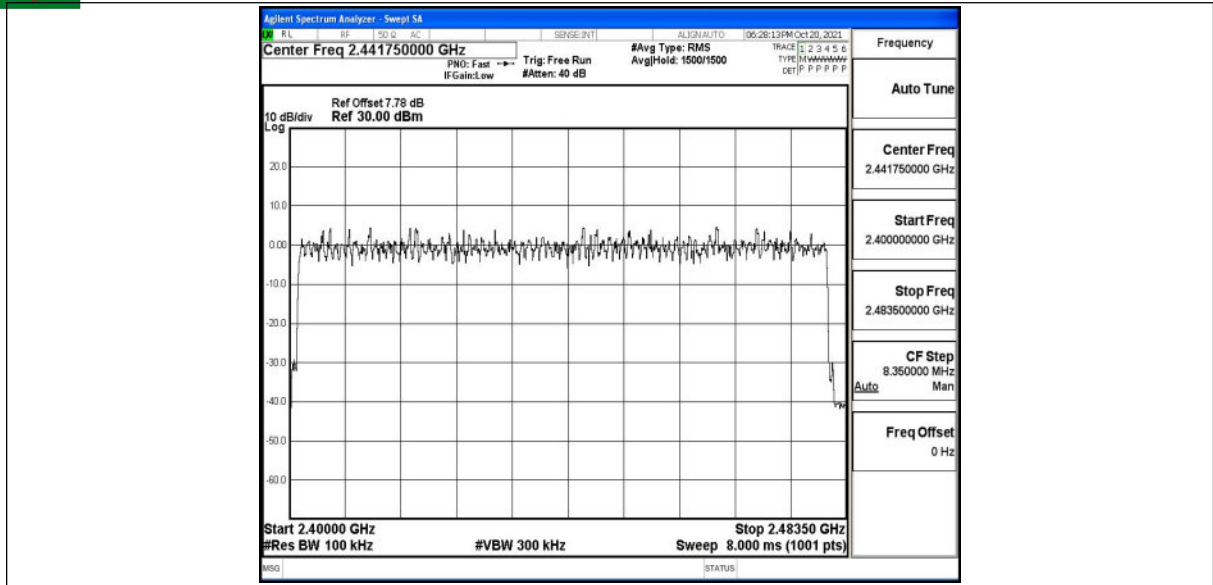
A.5 Number of hopping channels

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

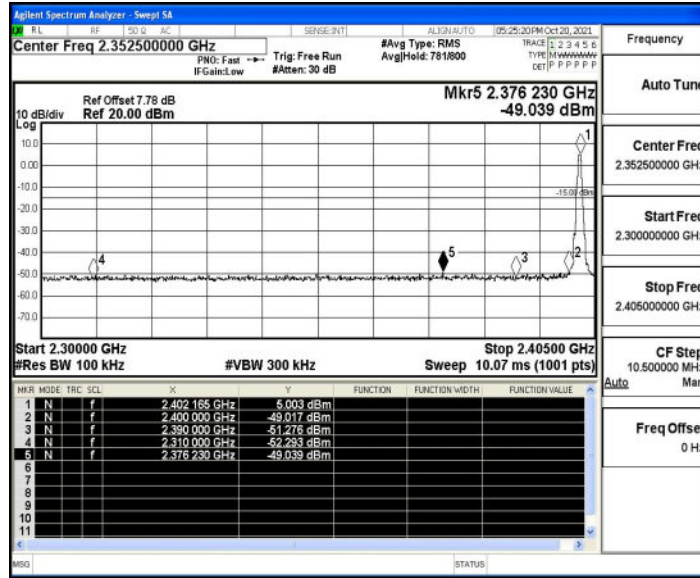
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.00	-49.04	≤ -15	PASS
		High	2480	5.64	-47.61	≤ -14.36	PASS
		Low	Hop_2402	4.53	-49.19	≤ -15.48	PASS
		High	Hop_2480	5.19	-48.43	≤ -14.81	PASS
2DH5	Ant1	Low	2402	4.35	-48.1	≤ -15.65	PASS
		High	2480	4.96	-48.19	≤ -15.04	PASS
		Low	Hop_2402	1.22	-50.05	≤ -18.78	PASS
		High	Hop_2480	4.74	-47.48	≤ -15.26	PASS
3DH5	Ant1	Low	2402	4.42	-47.56	≤ -15.58	PASS
		High	2480	4.88	-32.41	≤ -15.12	PASS
		Low	Hop_2402	0.46	-49.41	≤ -19.54	PASS
		High	Hop_2480	4.18	-38.21	≤ -15.82	PASS

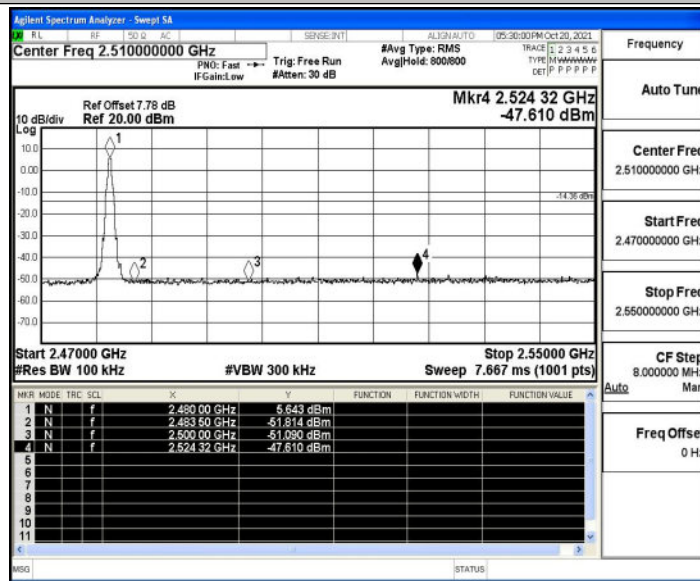


Test Graphs

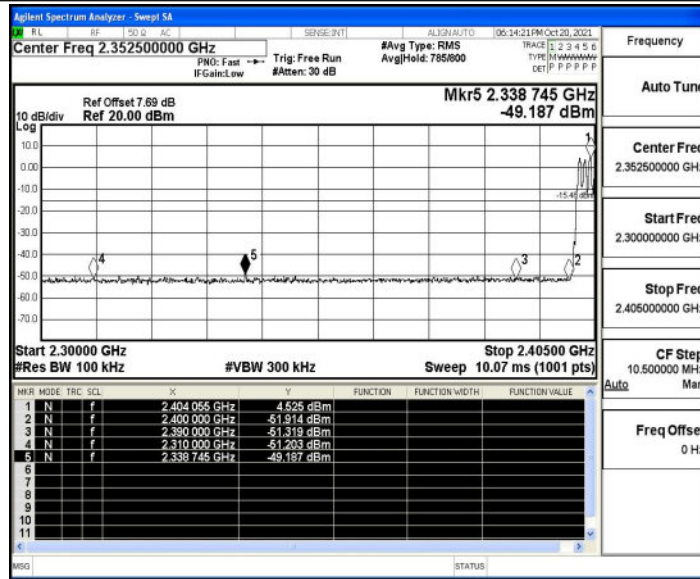
DH5_Ant1_Low_2402



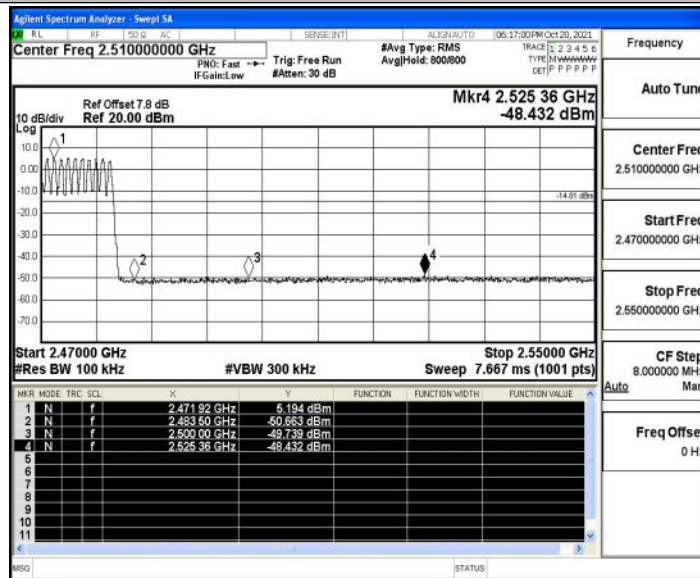
DH5_Ant1_High_2480



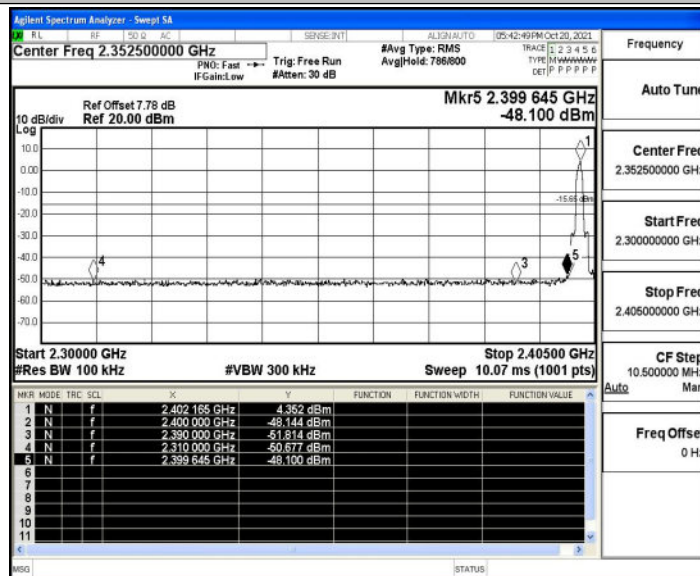
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480

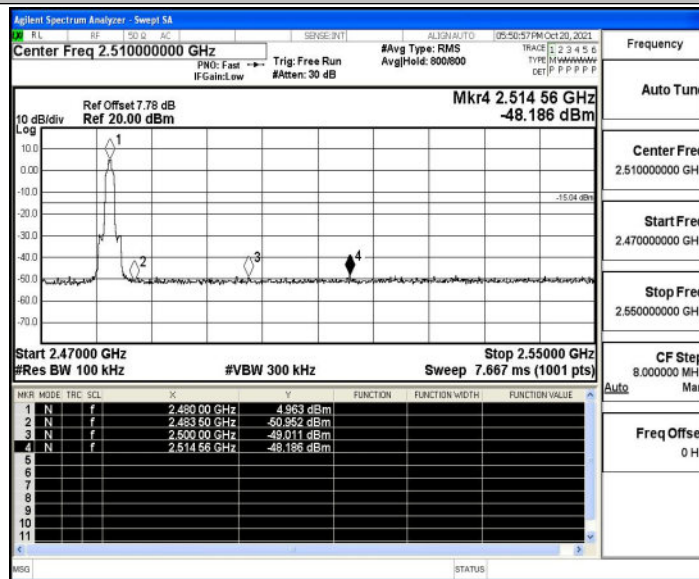


2DH5_Ant1_Low_2402

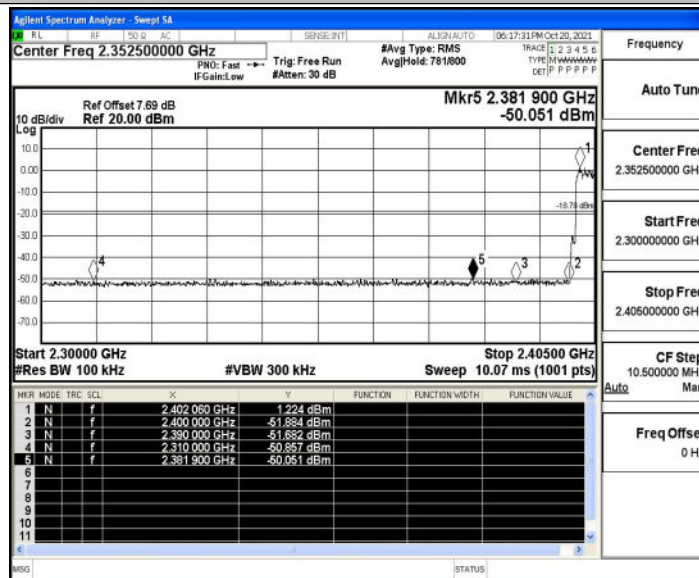




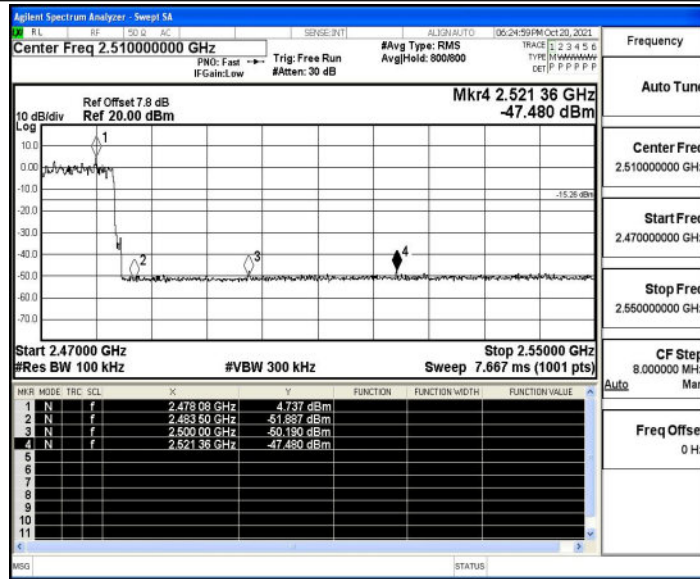
2DH5_Ant1_High_2480



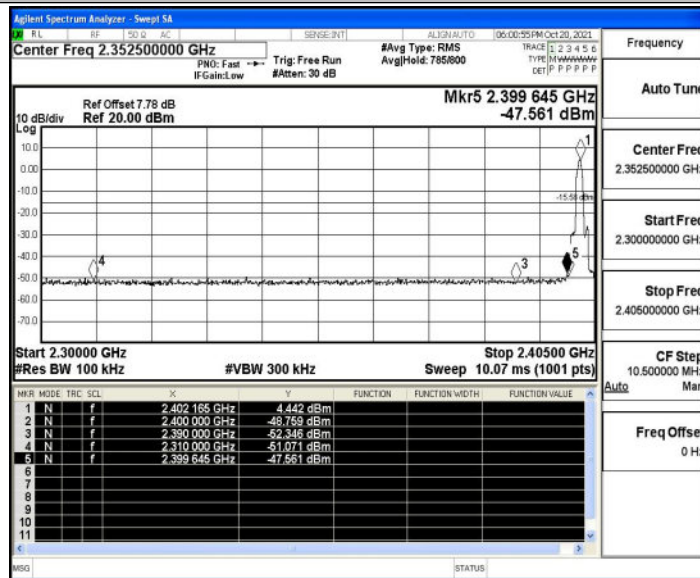
2DH5_Ant1_Low_Hop_2402



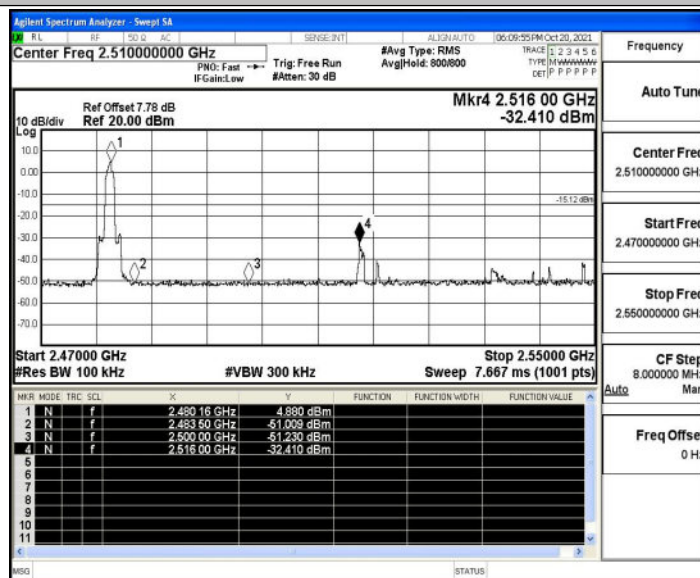
2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402

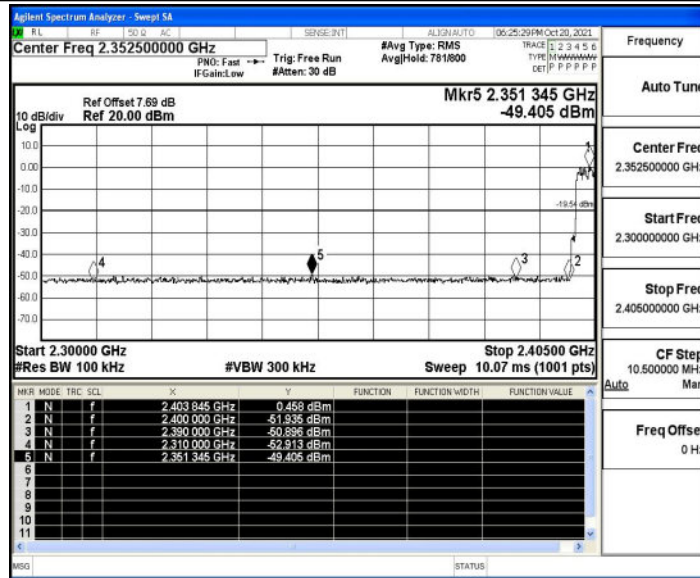


3DH5_Ant1_High_2480

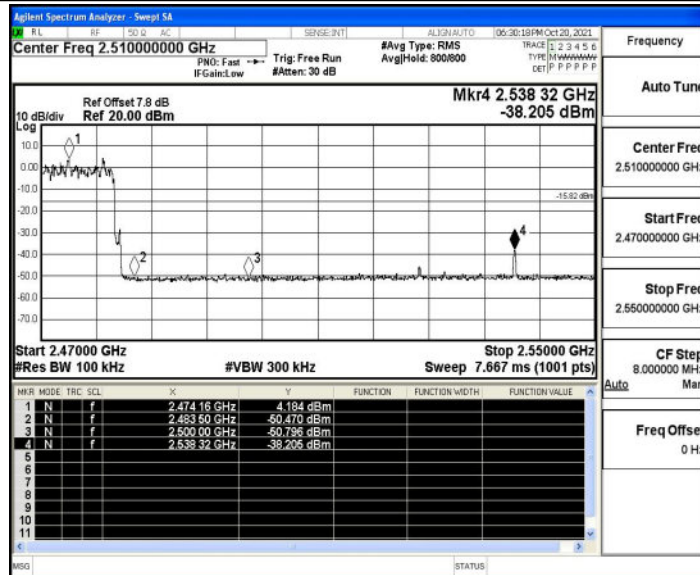




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480





A.7 Conducted Spurious Emission

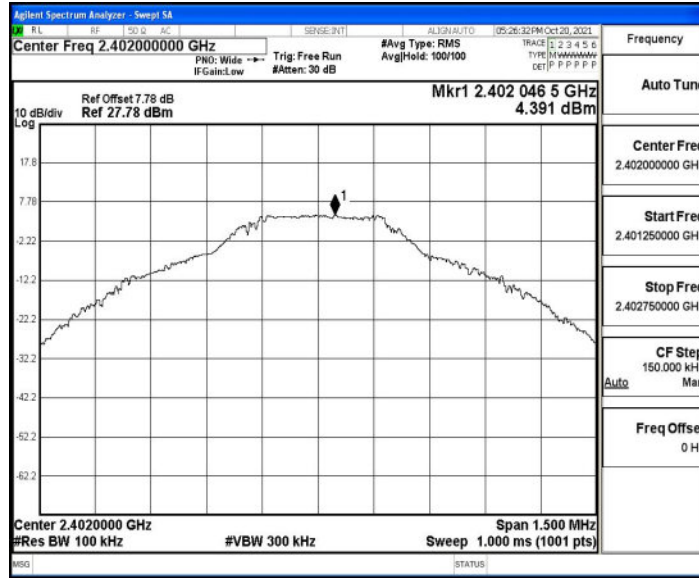
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.39	4.39	---	PASS
			30~1000	4.39	-33	≤-15.61	PASS
			1000~26500	4.39	-47.39	≤-15.61	PASS
		2441	Reference	5.43	5.43	---	PASS
			30~1000	5.43	-53.87	≤-14.57	PASS
			1000~26500	5.43	-47.21	≤-14.57	PASS
		2480	Reference	5.12	5.12	---	PASS
			30~1000	5.12	-61.63	≤-14.88	PASS
			1000~26500	5.12	-43.34	≤-14.88	PASS
2DH5	Ant1	2402	Reference	3.59	3.59	---	PASS
			30~1000	3.59	-61.7	≤-16.41	PASS
			1000~26500	3.59	-46.11	≤-16.41	PASS
		2441	Reference	4.59	4.59	---	PASS
			30~1000	4.59	-61.85	≤-15.42	PASS
			1000~26500	4.59	-43.21	≤-15.42	PASS
		2480	Reference	4.94	4.94	---	PASS
			30~1000	4.94	-61.95	≤-15.06	PASS
			1000~26500	4.94	-34.89	≤-15.06	PASS
3DH5	Ant1	2402	Reference	3.51	3.51	---	PASS
			30~1000	3.51	-61.6	≤-16.49	PASS
			1000~26500	3.51	-47.19	≤-16.49	PASS
		2441	Reference	4.64	4.64	---	PASS
			30~1000	4.64	-52.05	≤-15.36	PASS
			1000~26500	4.64	-47.63	≤-15.36	PASS
		2480	Reference	3.89	3.89	---	PASS
			30~1000	3.89	-49.31	≤-16.12	PASS
			1000~26500	3.89	-47.56	≤-16.12	PASS

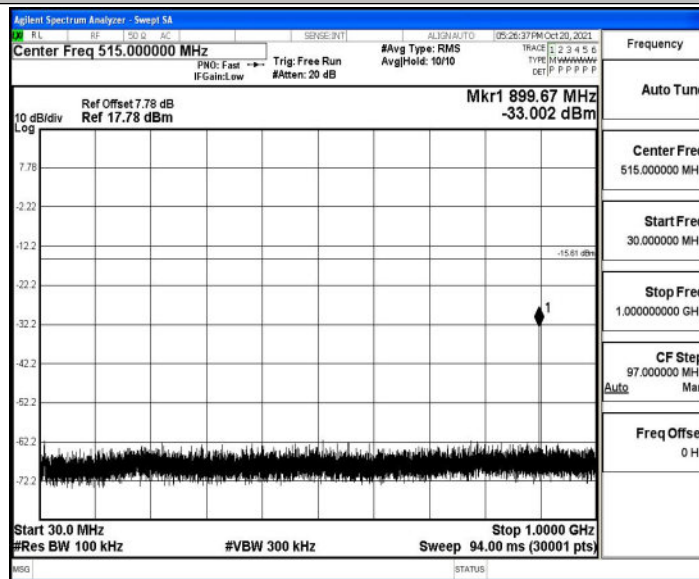


Test Graphs

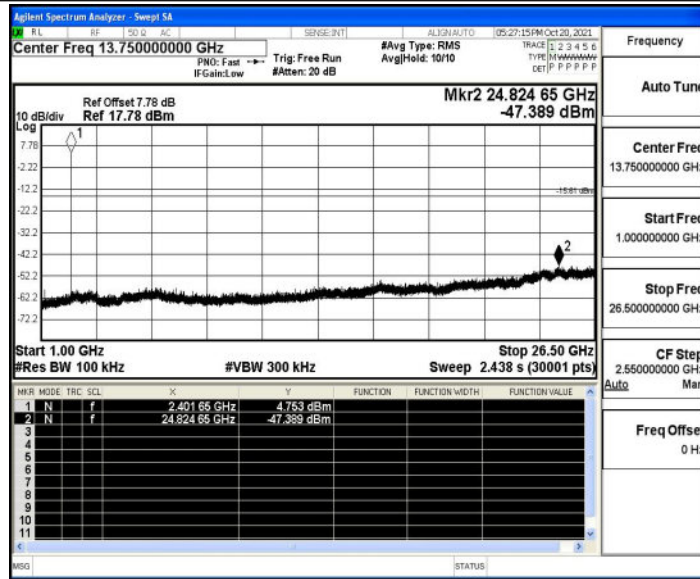
DH5_Ant1_2402_0~Reference



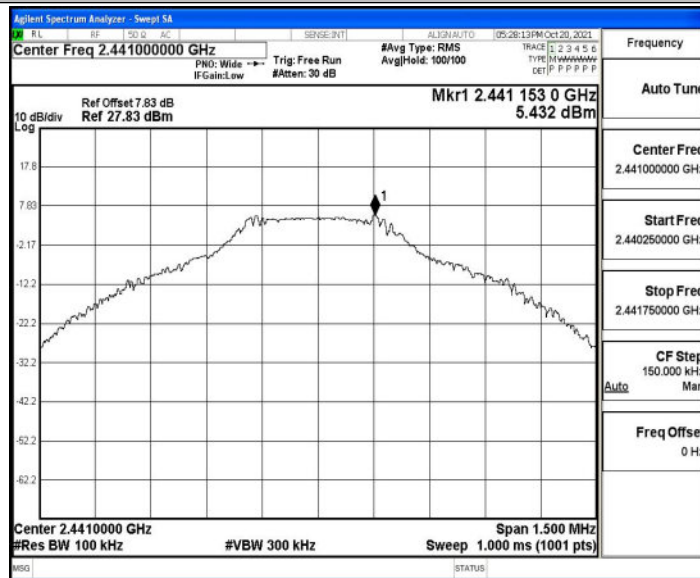
DH5_Ant1_2402_30~1000



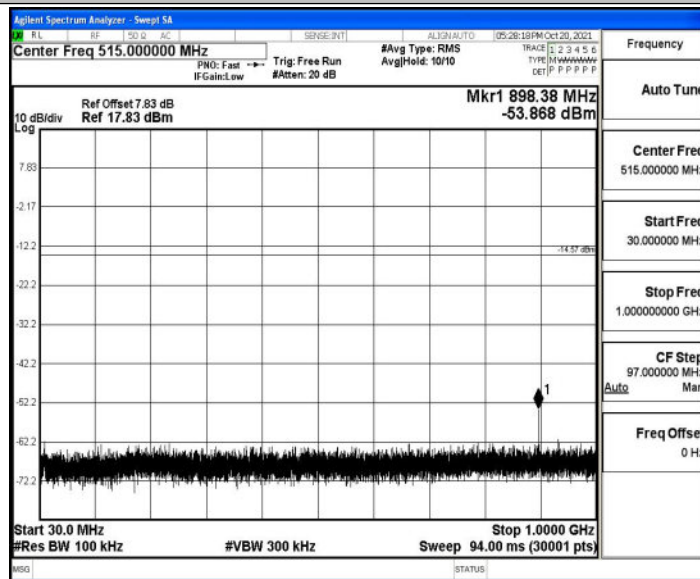
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference

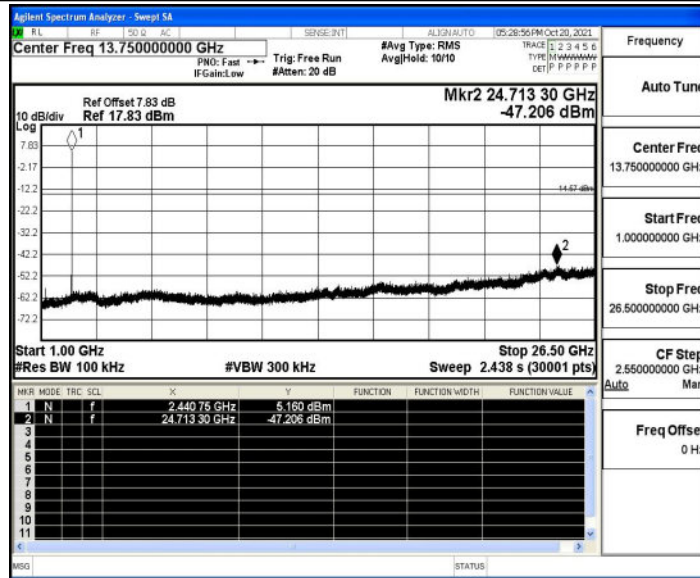


DH5_Ant1_2441_30~1000

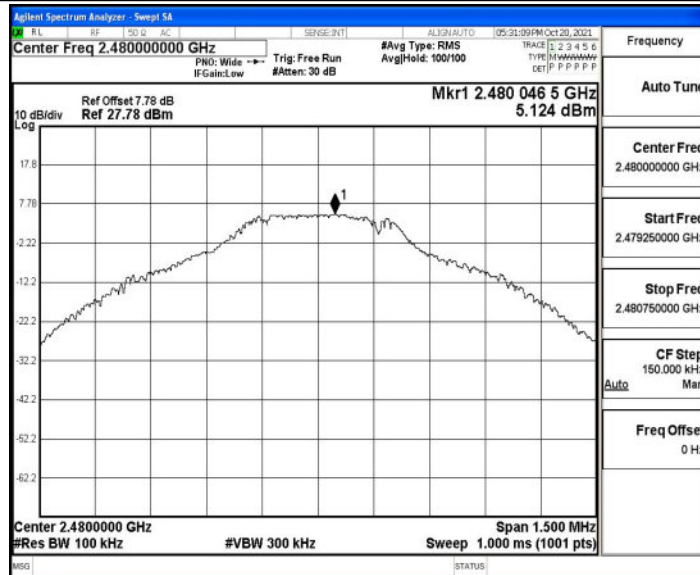




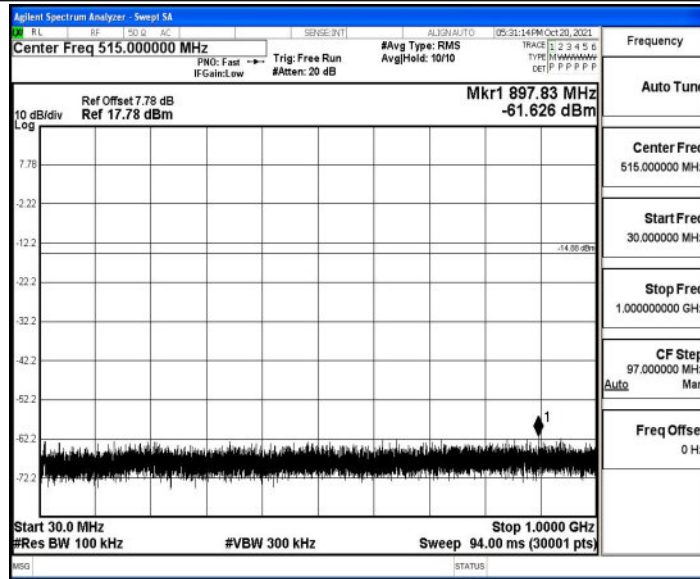
DH5_Ant1_2441_1000~26500



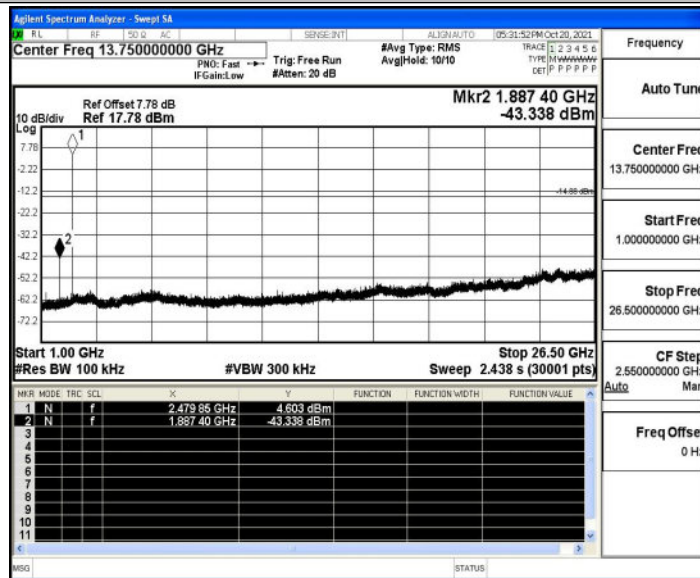
DH5_Ant1_2480_0~Reference



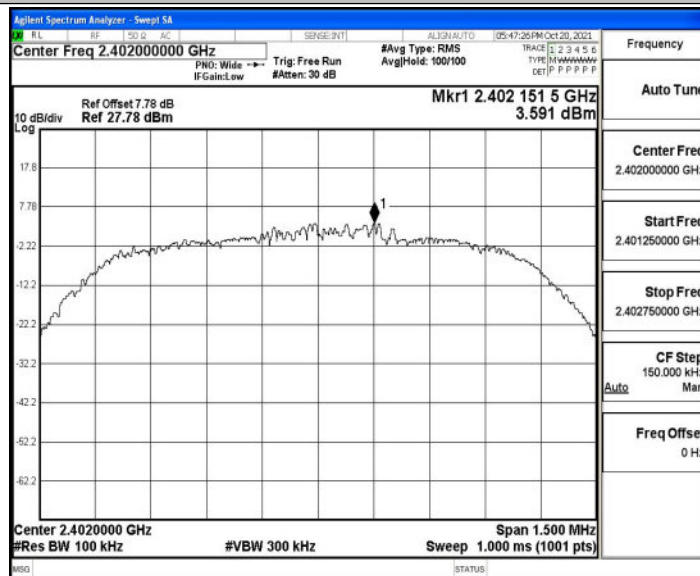
DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500

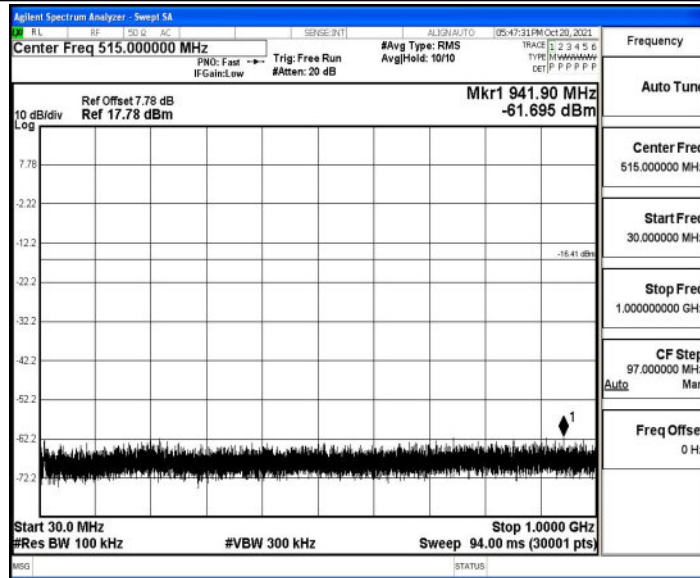


2DH5_Ant1_2402_0~Reference

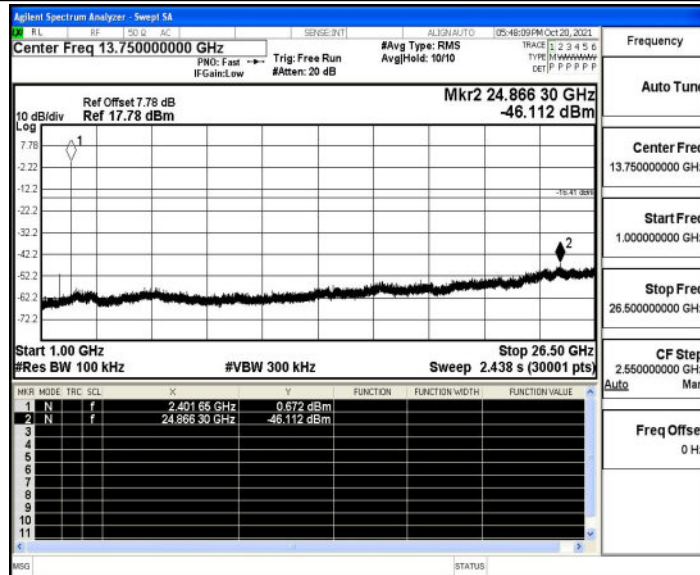




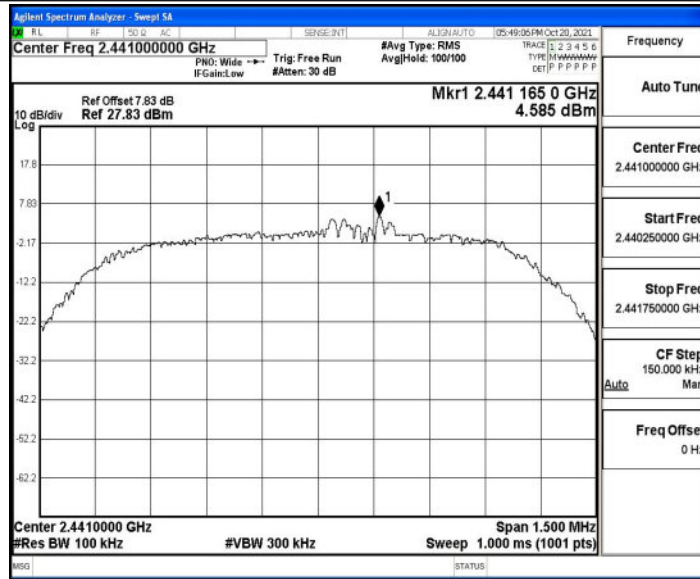
2DH5_Ant1_2402_30~1000



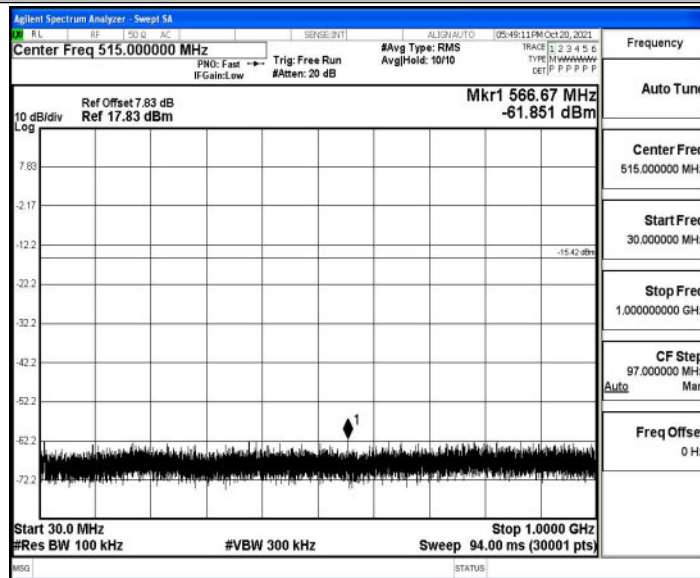
2DH5_Ant1_2402_1000~26500



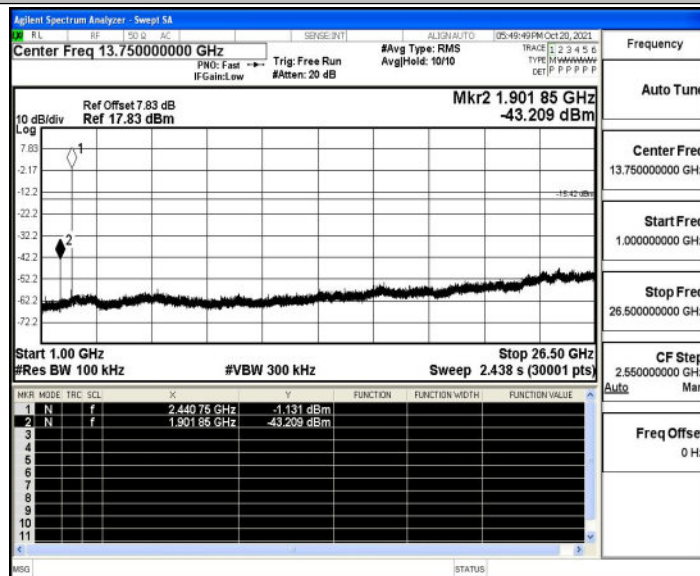
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000

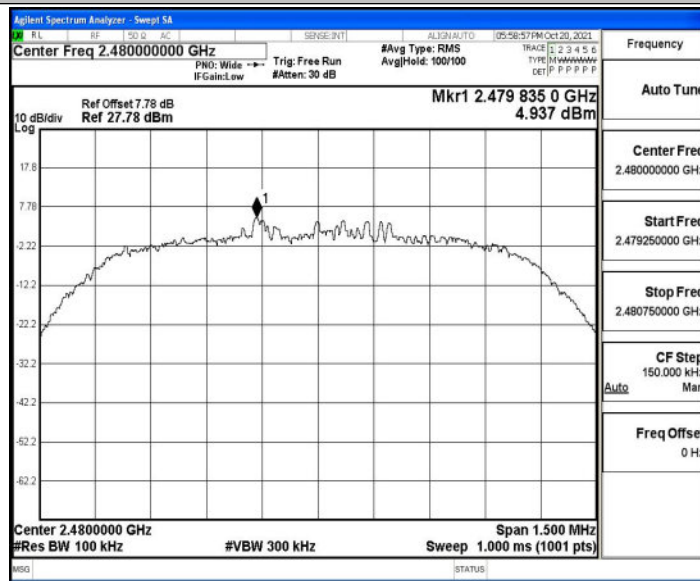


2DH5_Ant1_2441_1000~26500

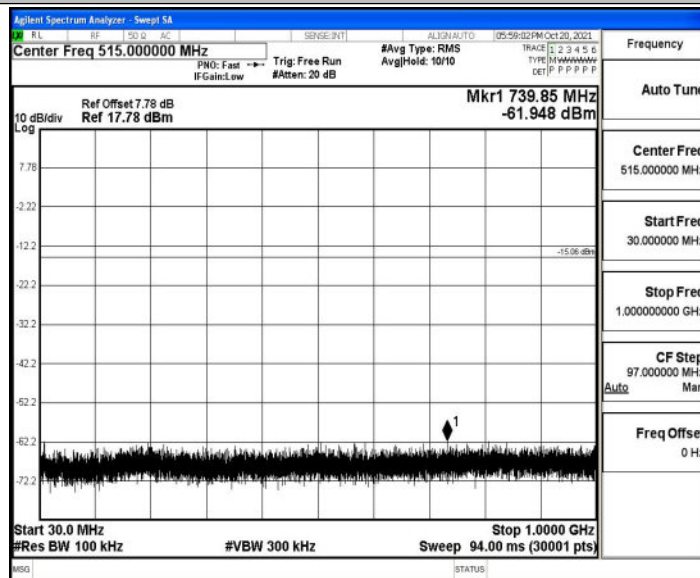




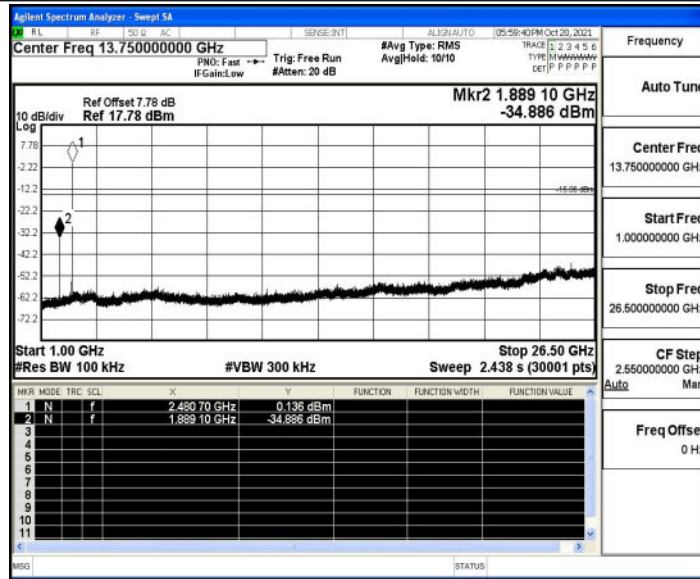
2DH5_Ant1_2480_0~Reference



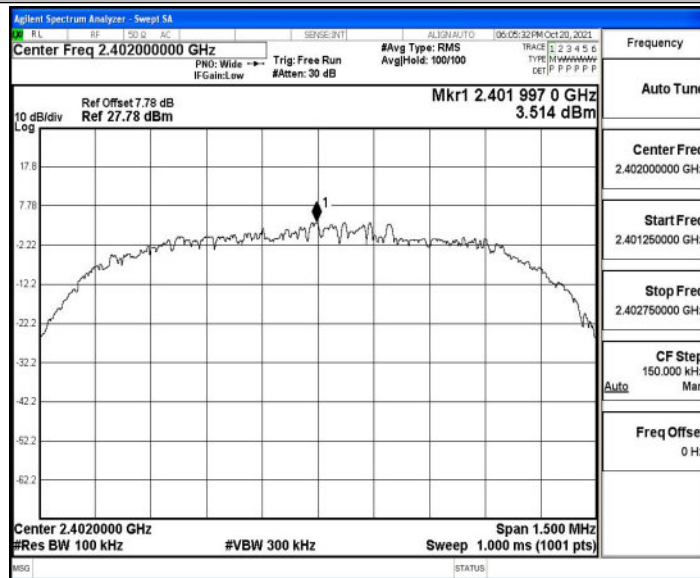
2DH5_Ant1_2480_30~1000



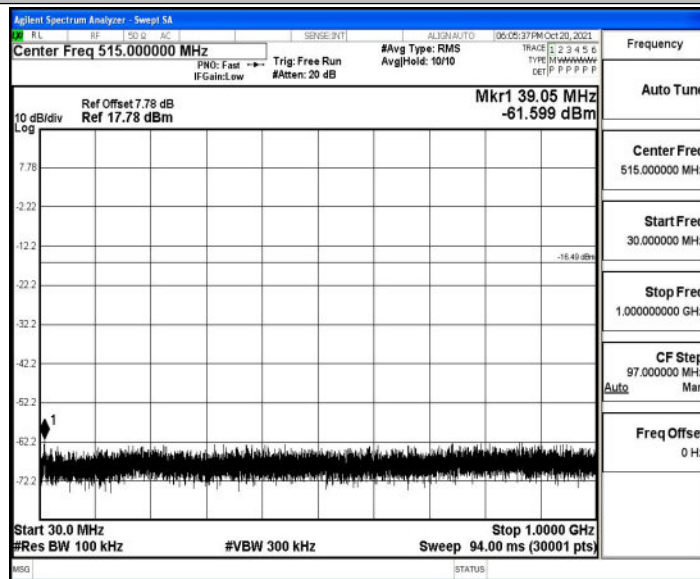
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference

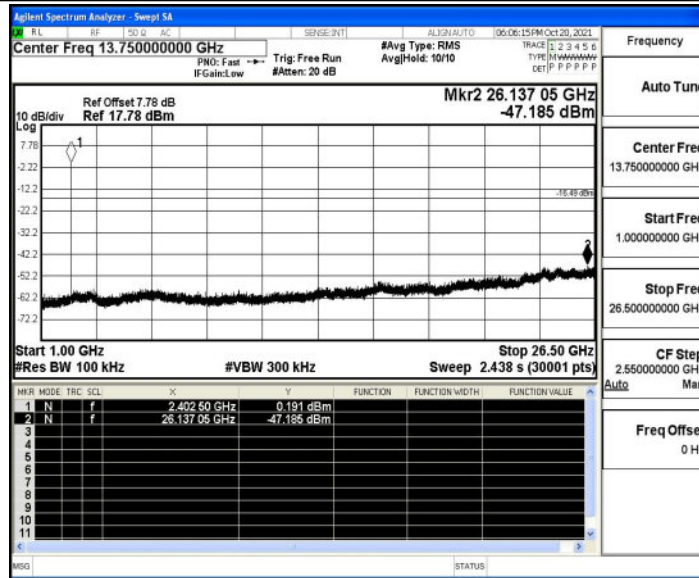


3DH5_Ant1_2402_30~1000

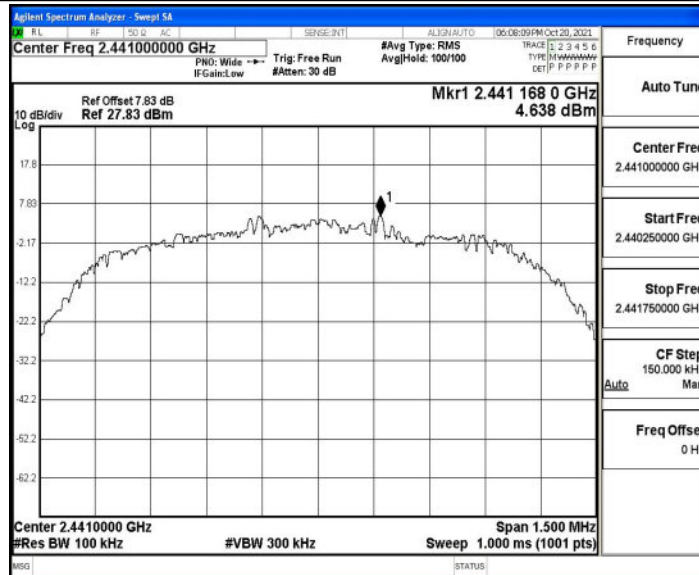




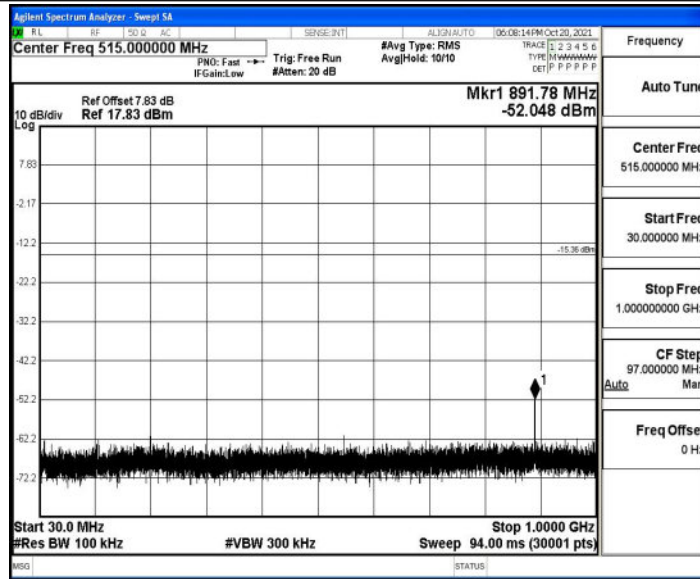
3DH5_Ant1_2402_1000~26500



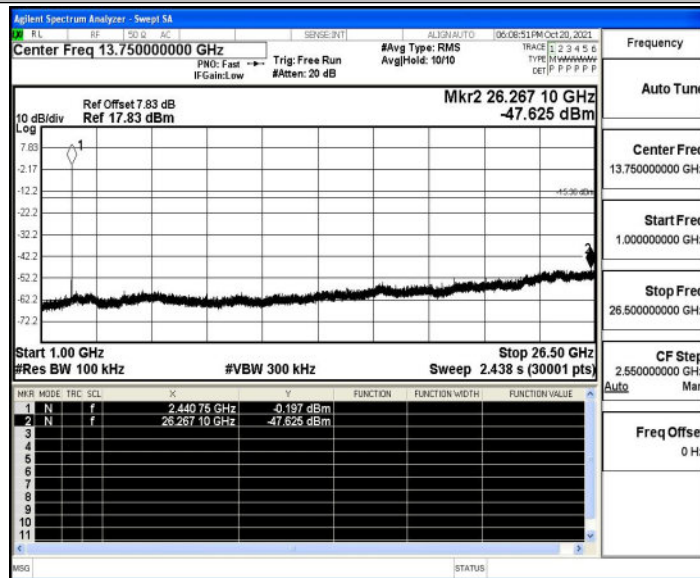
3DH5_Ant1_2441_0~Reference



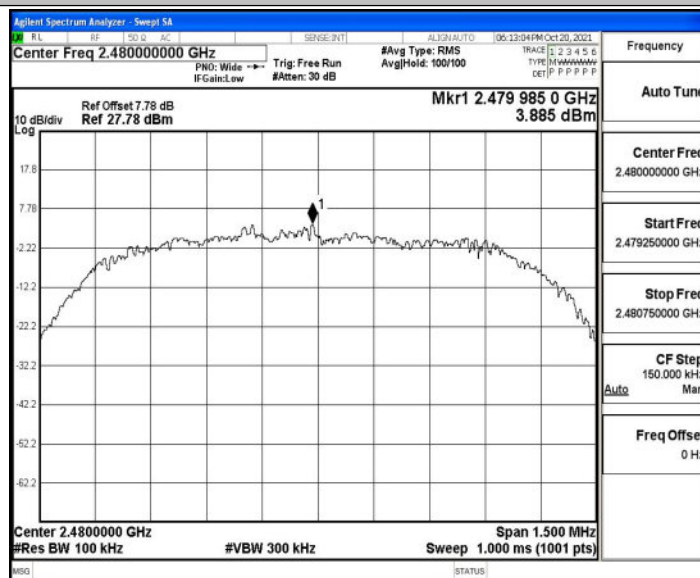
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500

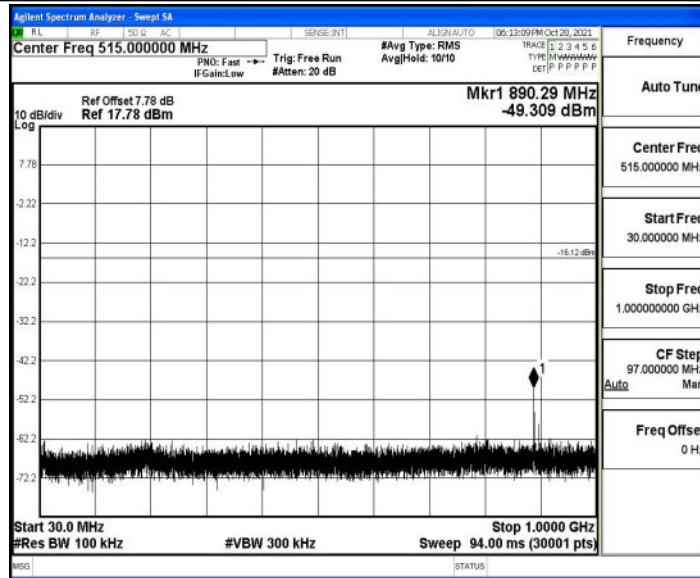


3DH5_Ant1_2480_0~Reference

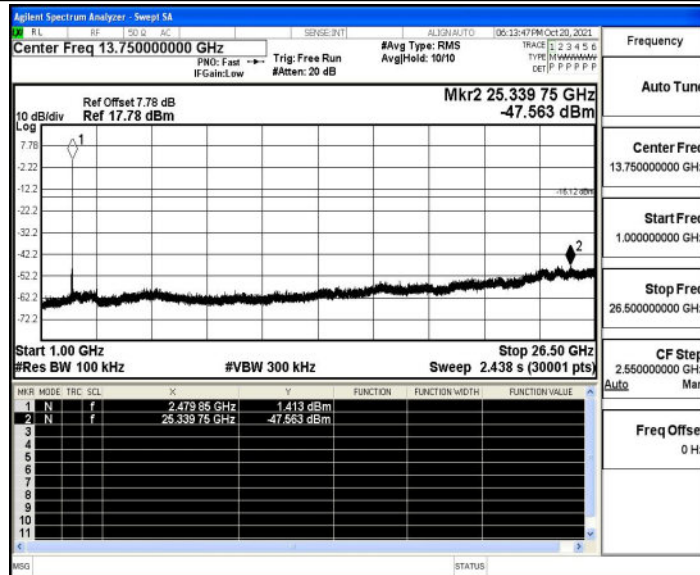




3DH5_Ant1_2480_30~1000



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	-48.94	≤-41.20	46.26	≤54	PASS
				AV	2368.250	-48.3	≤-41.20	46.90	≤54	PASS
				AV	2390.000	-48.48	≤-41.20	46.72	≤54	PASS
				Peak	2310.000	-42.18	≤-21.20	53.02	≤74	PASS
				Peak	2365.835	-38.62	≤-21.20	56.58	≤74	PASS
				Peak	2390.000	-43.45	≤-21.20	51.75	≤74	PASS
		High	2480	AV	2483.500	-47.29	≤-41.20	47.91	≤54	PASS
				AV	2483.520	-47.29	≤-41.20	47.91	≤54	PASS
				AV	2500.000	-48	≤-41.20	47.20	≤54	PASS
				Peak	2483.500	-40.69	≤-21.20	54.51	≤74	PASS
				Peak	2492.240	-37.76	≤-21.20	57.44	≤74	PASS
				Peak	2500.000	-41.09	≤-21.20	54.11	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.05	≤-41.20	46.15	≤54	PASS
				AV	2389.355	-48.47	≤-41.20	46.73	≤54	PASS
				AV	2390.000	-48.58	≤-41.20	46.62	≤54	PASS
				Peak	2310.000	-40.8	≤-21.20	54.40	≤74	PASS
				Peak	2380.220	-37.89	≤-21.20	57.31	≤74	PASS
				Peak	2390.000	-40.59	≤-21.20	54.61	≤74	PASS
		High	2480	AV	2483.500	-46.76	≤-41.20	48.44	≤54	PASS
				AV	2483.520	-46.76	≤-41.20	48.44	≤54	PASS
				AV	2500.000	-48.04	≤-41.20	47.16	≤54	PASS
				Peak	2483.500	-41.18	≤-21.20	54.02	≤74	PASS
				Peak	2492.880	-38.58	≤-21.20	56.62	≤74	PASS
				Peak	2500.000	-41.36	≤-21.20	53.84	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.03	≤-41.20	46.17	≤54	PASS
				AV	2366.990	-48.38	≤-41.20	46.82	≤54	PASS
				AV	2390.000	-48.5	≤-41.20	46.70	≤54	PASS
				Peak	2310.000	-41.45	≤-21.20	53.75	≤74	PASS
				Peak	2350.715	-39.08	≤-21.20	56.12	≤74	PASS
				Peak	2390.000	-42.2	≤-21.20	53.00	≤74	PASS
		High	2480	AV	2483.500	-46.56	≤-41.20	48.64	≤54	PASS
				AV	2483.520	-46.56	≤-41.20	48.64	≤54	PASS
				AV	2500.000	-48.02	≤-41.20	47.18	≤54	PASS
				Peak	2483.500	-40.33	≤-21.20	54.87	≤74	PASS
				Peak	2495.040	-37.72	≤-21.20	57.48	≤74	PASS
				Peak	2500.000	-40.7	≤-21.20	54.50	≤74	PASS



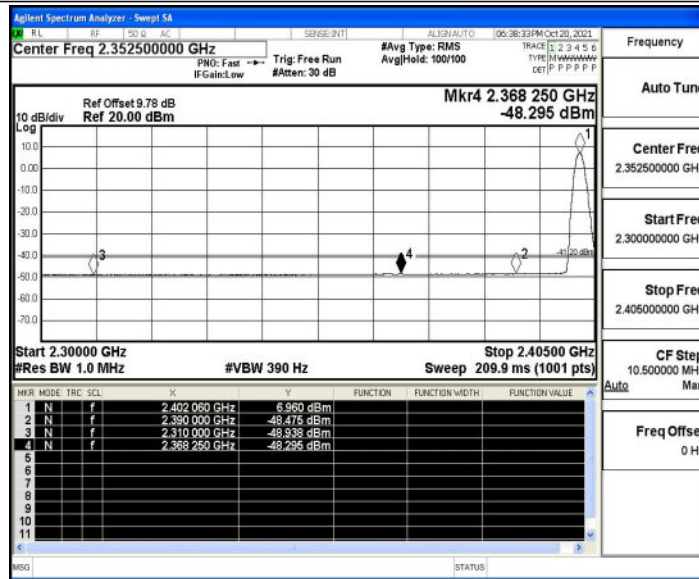
Note:

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.

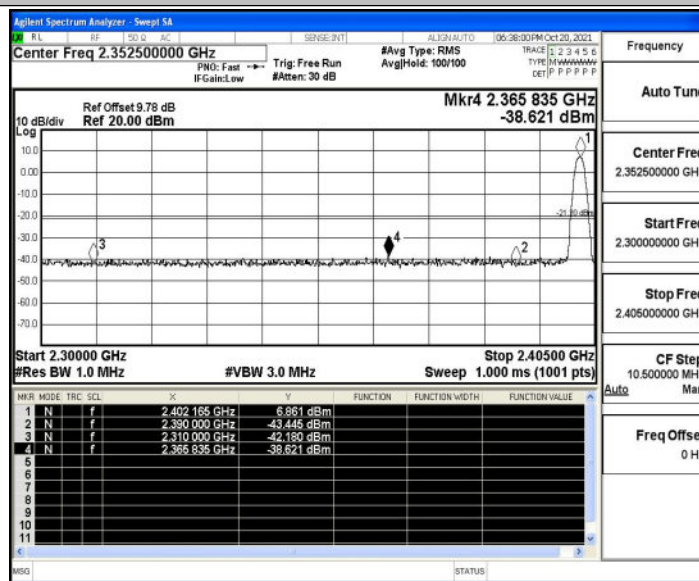


Test Graphs

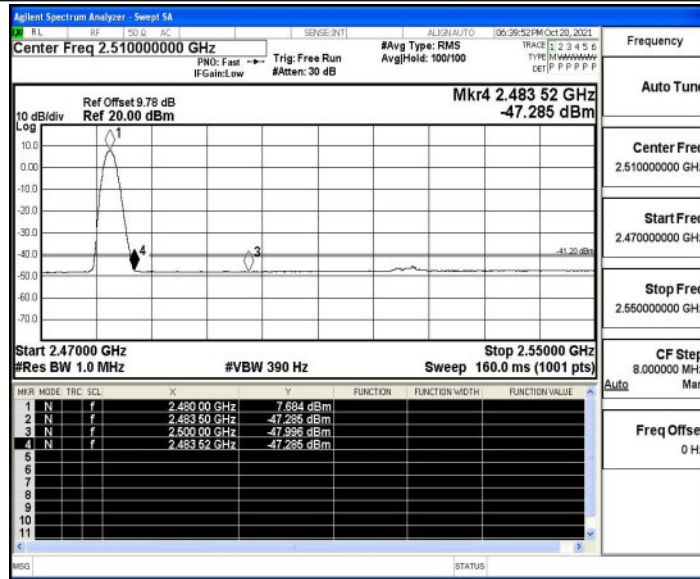
DH5_Ant1_Low_2402_AV



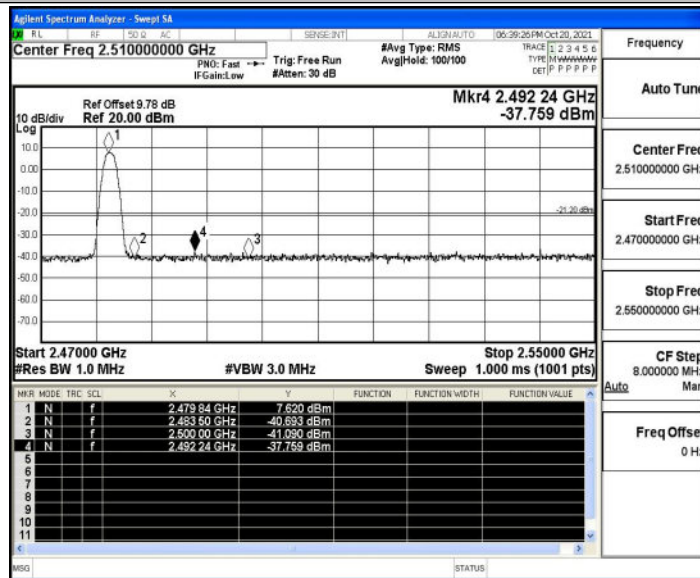
DH5_Ant1_Low_2402_Peak



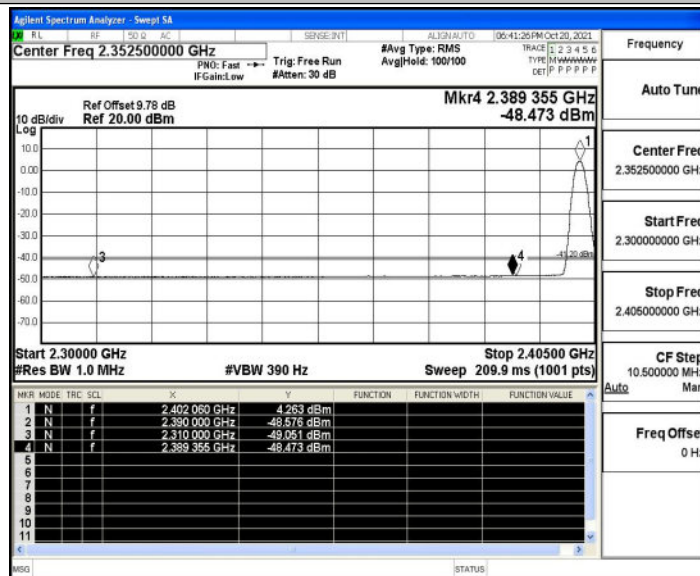
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak

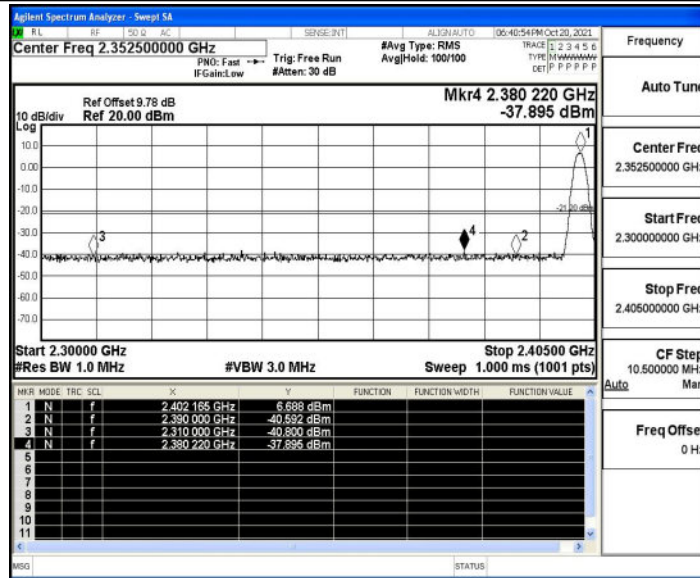


2DH5_Ant1_Low_2402_AV

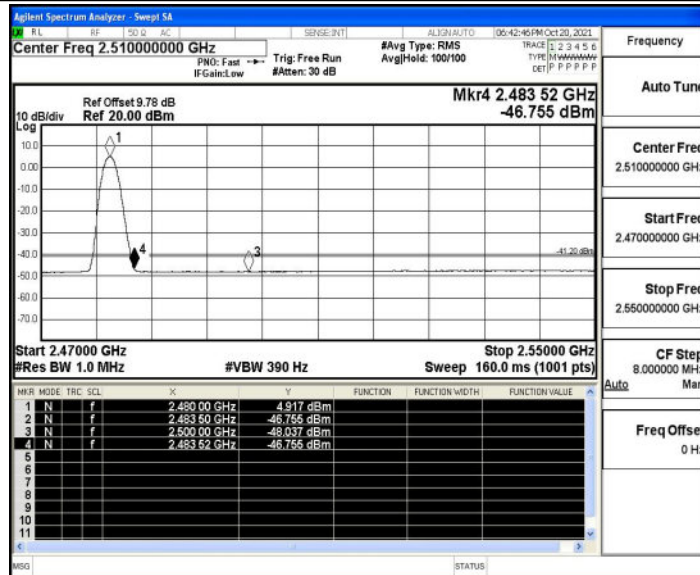




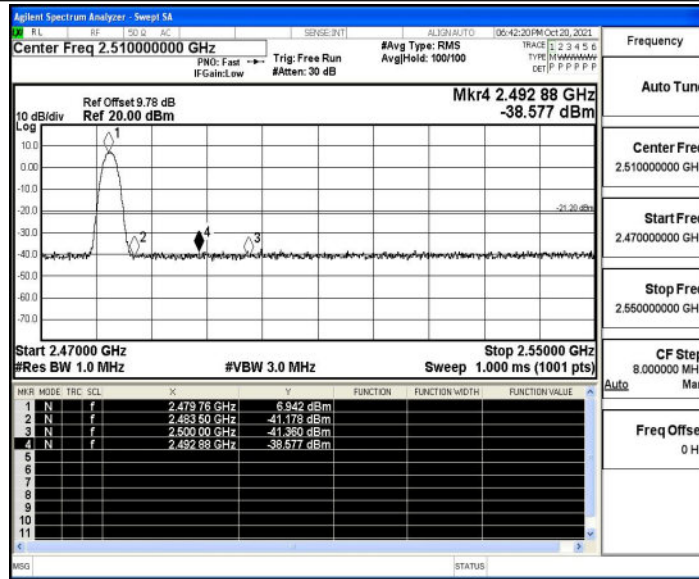
2DH5_Ant1_Low_2402_Peak



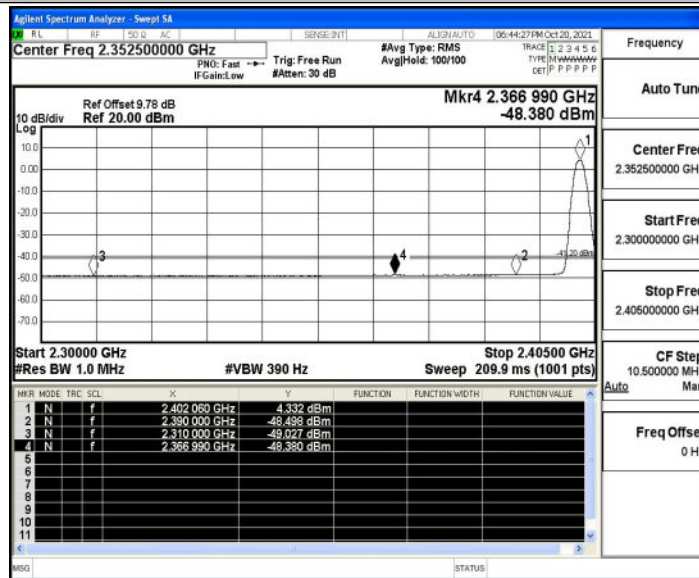
2DH5_Ant1_High_2480_AV



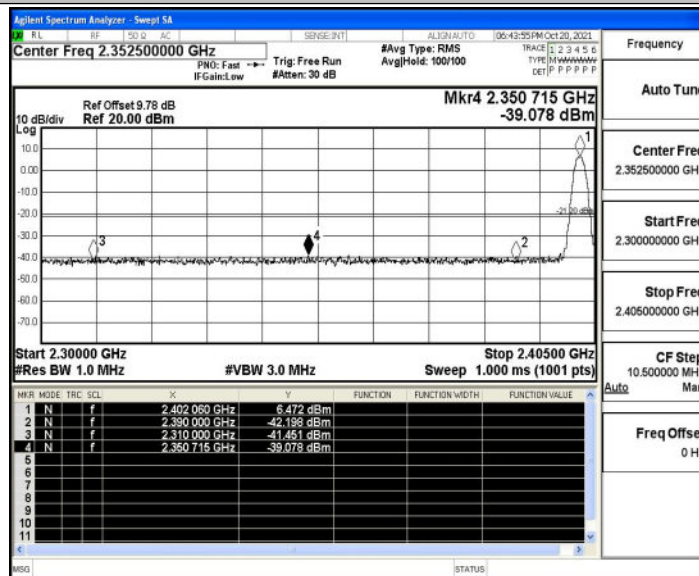
2DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_2402_AV

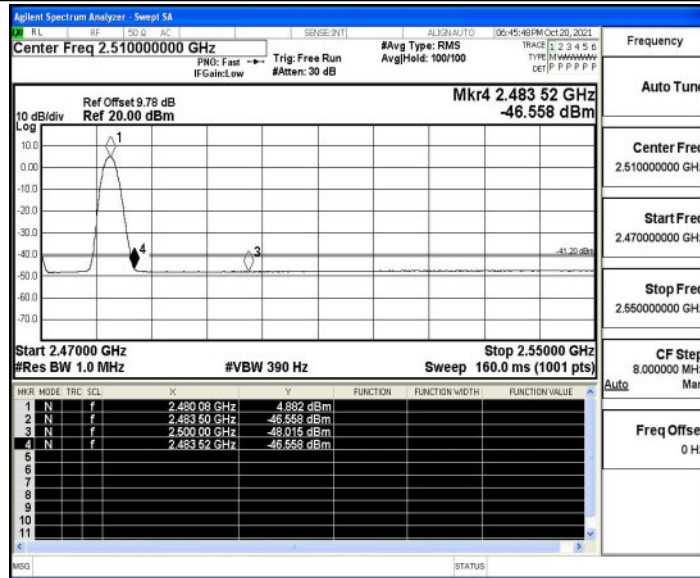


3DH5_Ant1_Low_2402_Peak





3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

