



Appendix A

RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

Product Name: Smartphone
Trade Mark: S Smooth
Test Model: Smooth 6.26 Lite

Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

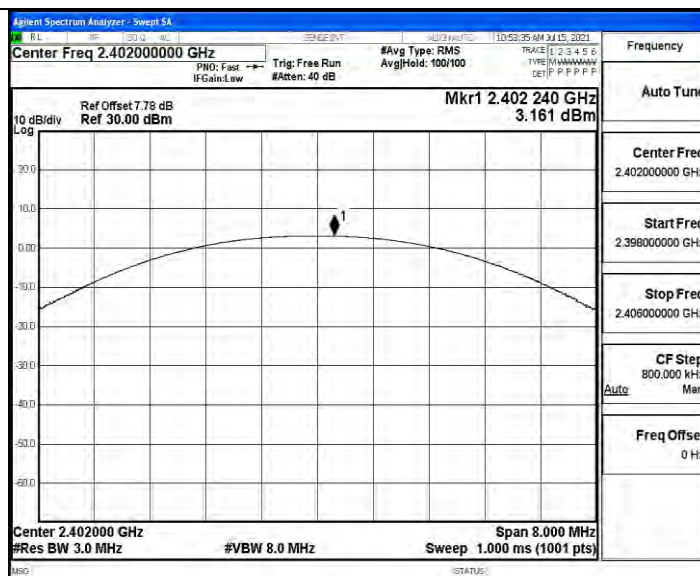
A.1 Maximum Conducted Peak Output Power

Test Result

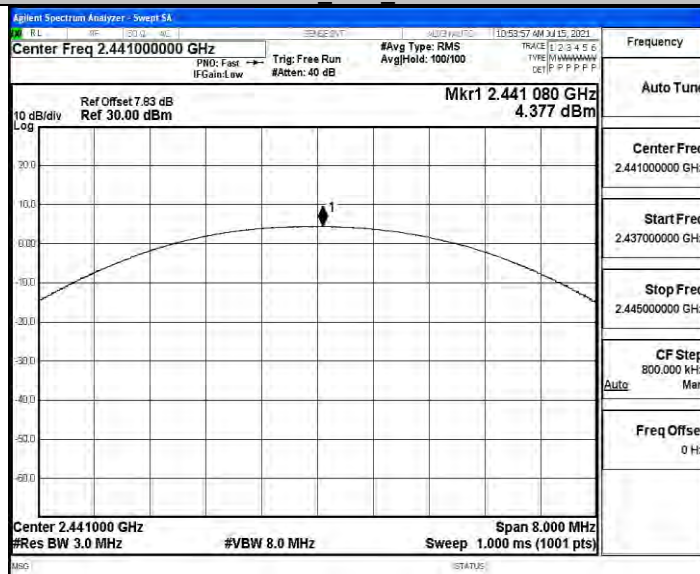
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.16	≤30	PASS
		2441	4.38	≤30	PASS
		2480	3.01	≤30	PASS
2DH5	Ant1	2402	2.24	≤20.97	PASS
		2441	3.53	≤20.97	PASS
		2480	2.09	≤20.97	PASS
3DH5	Ant1	2402	2.41	≤20.97	PASS
		2441	3.61	≤20.97	PASS
		2480	2.37	≤20.97	PASS



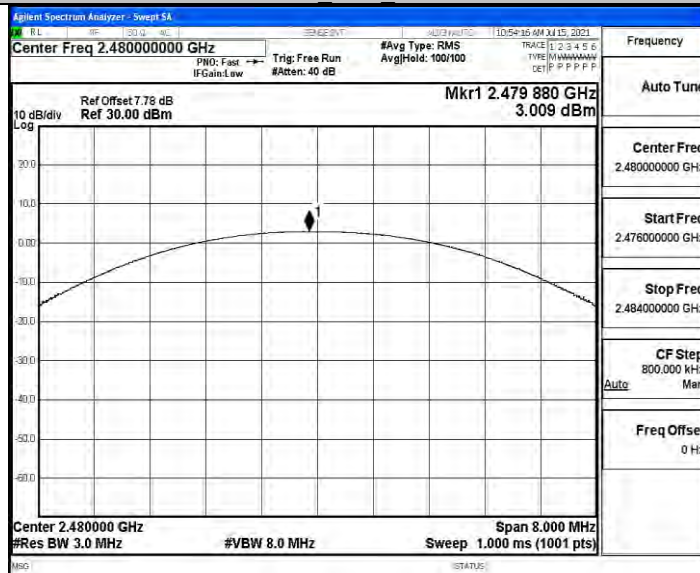
Test Graphs



DH5_Ant1_2402

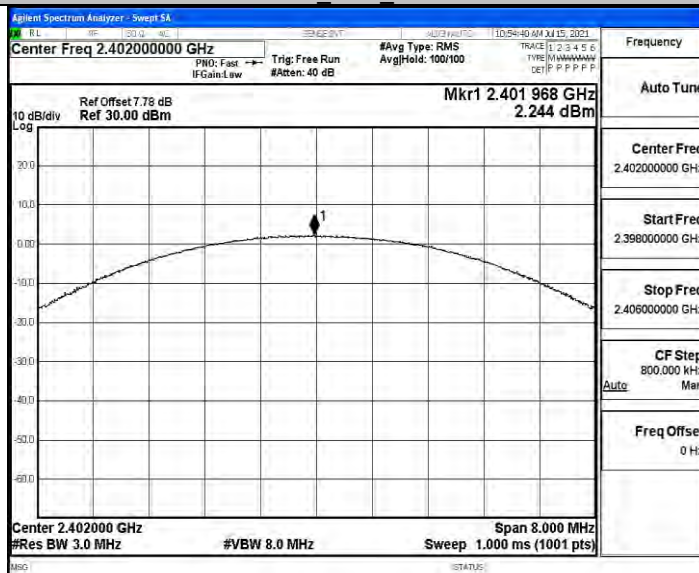


DH5_Ant1_2441

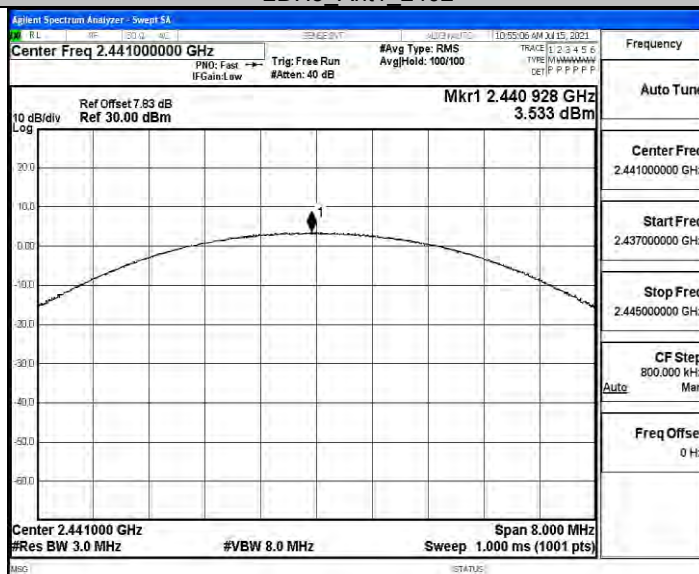




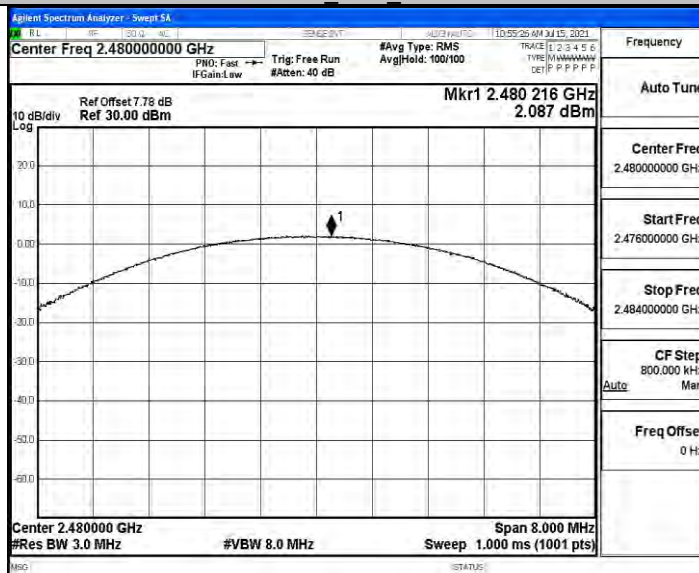
DH5_Ant1_2480



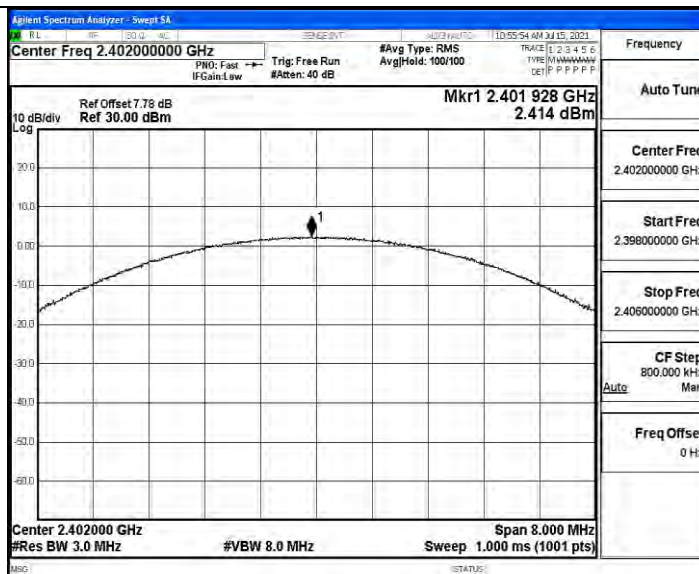
2DH5_Ant1_2402



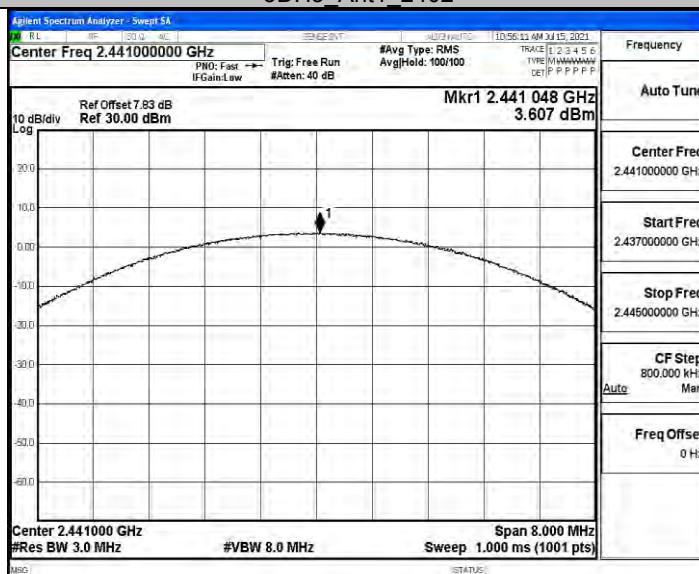
2DH5_Ant1_2441



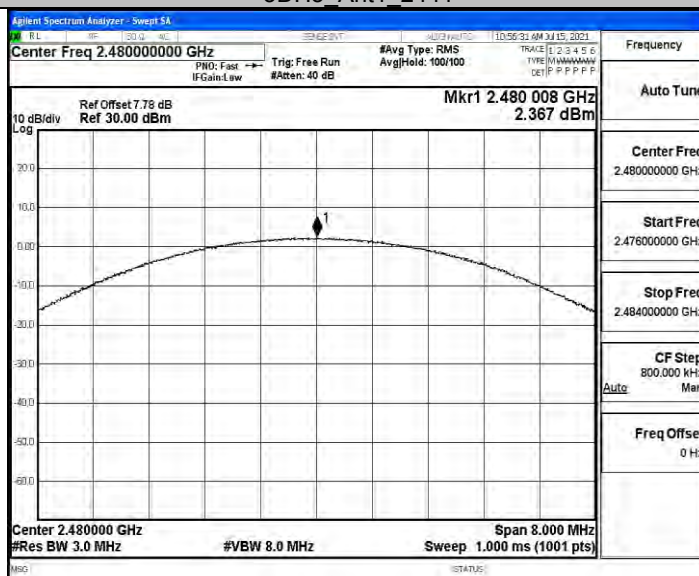
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



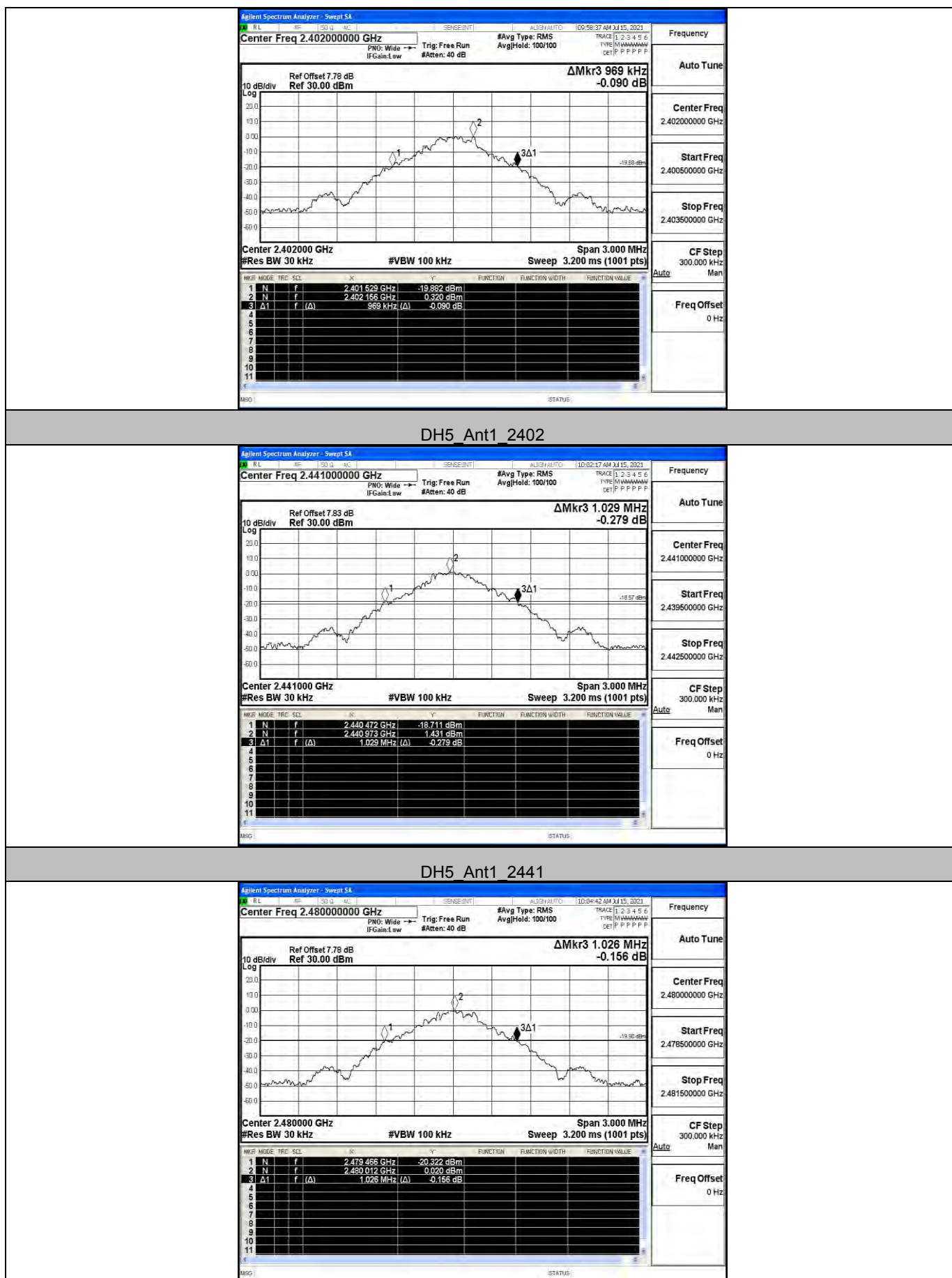
A.2 20dB Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.969	2401.529	2402.498	PASS
		2441	1.029	2440.472	2441.501	PASS
		2480	1.026	2479.466	2480.492	PASS
2DH5	Ant1	2402	1.359	2401.322	2402.681	PASS
		2441	1.326	2440.337	2441.663	PASS
		2480	1.329	2479.334	2480.663	PASS
3DH5	Ant1	2402	1.323	2401.343	2402.666	PASS
		2441	1.317	2440.343	2441.660	PASS
		2480	1.326	2479.340	2480.666	PASS

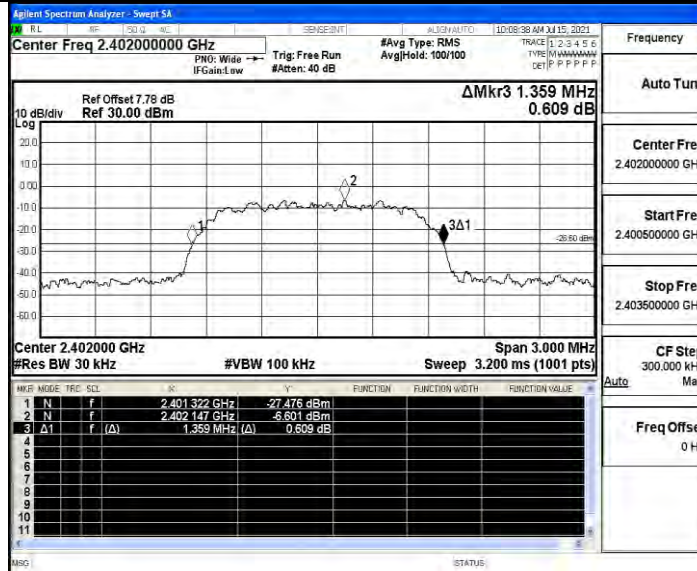


Test Graphs

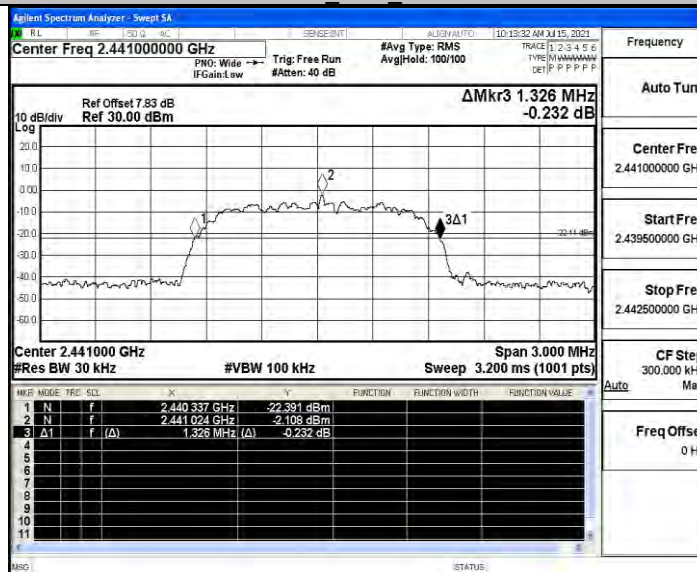




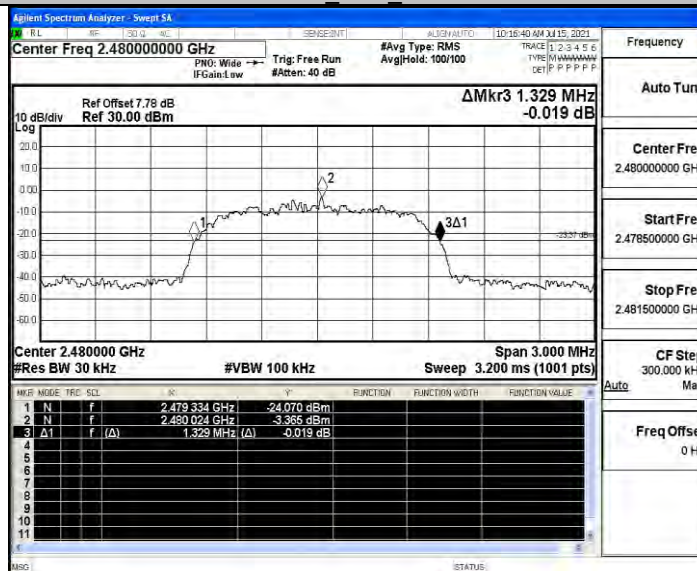
DH5_Ant1_2480



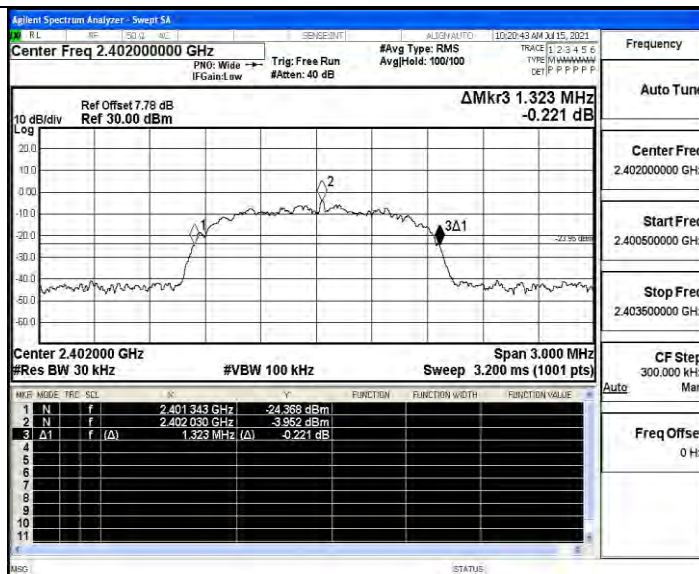
2DH5_Ant1_2402



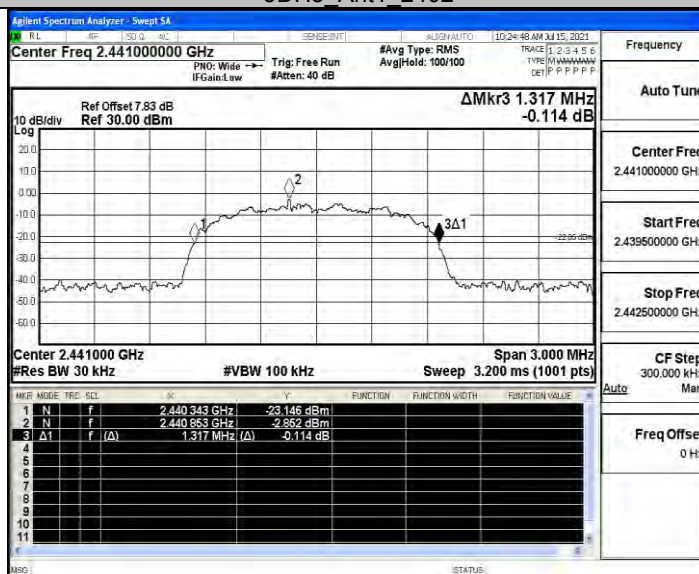
2DH5_Ant1_2441



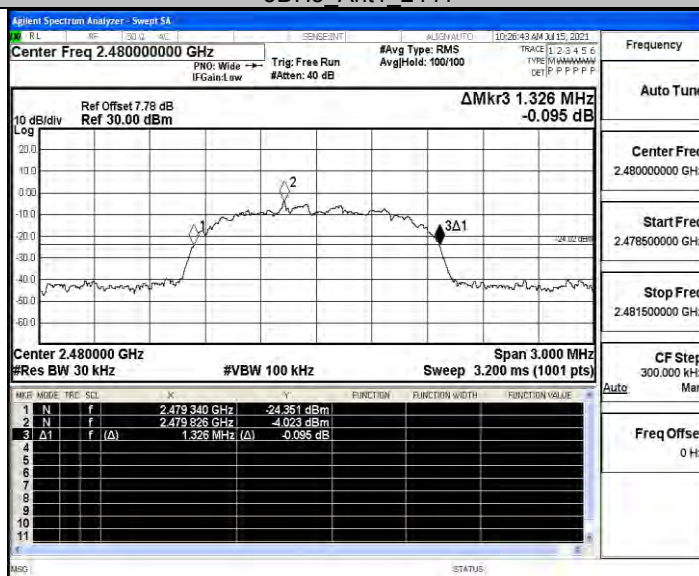
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

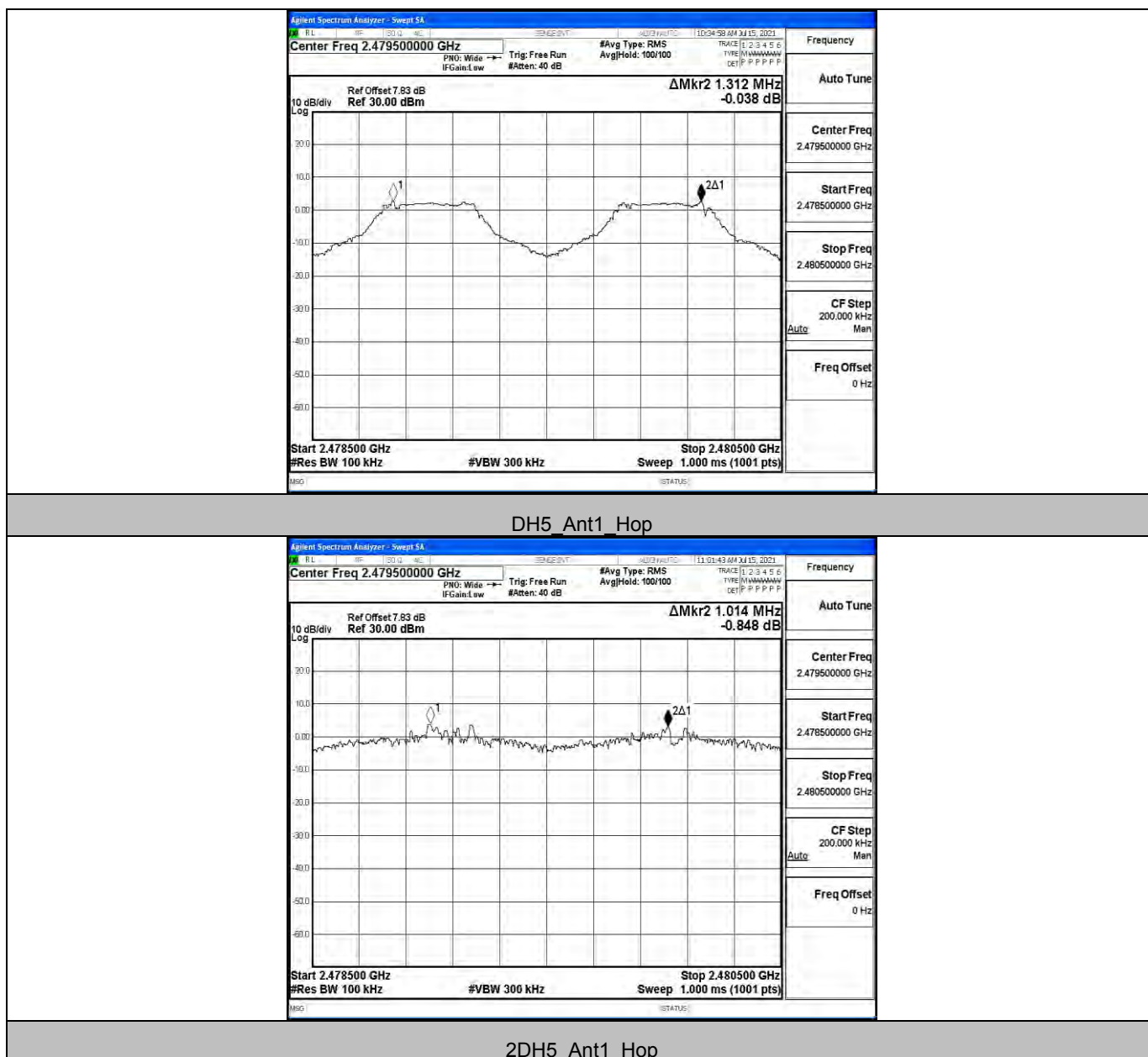


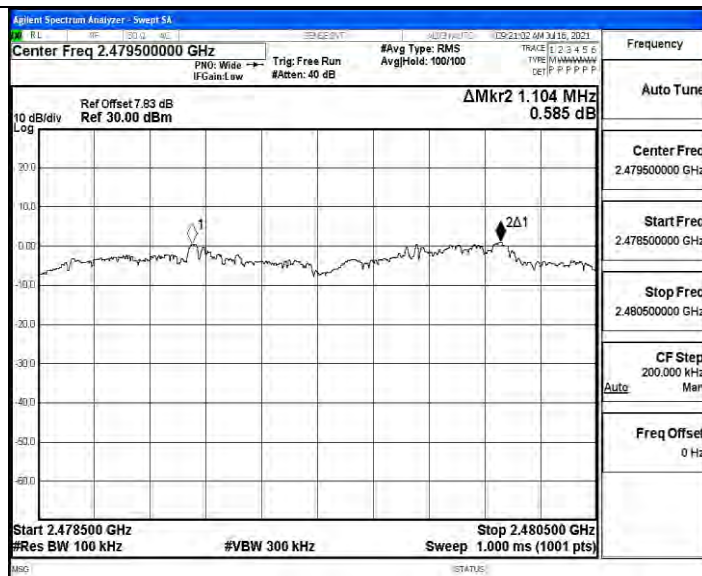
A.3 Carrier Frequency Separation

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	1.312	≥ 1.029	PASS
2DH5	Ant1	Hop	1.014	≥ 0.906	PASS
3DH5	Ant1	Hop	1.104	≥ 0.884	PASS

Test Graphs





3DH5_Ant1_Hop



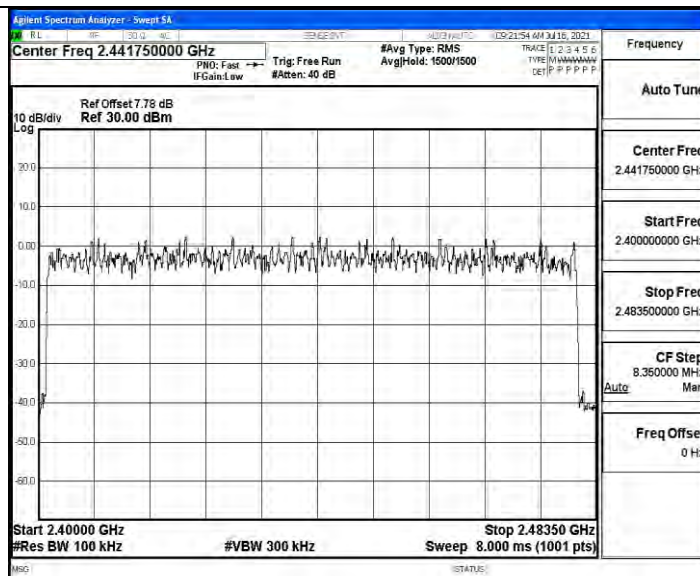
A.4 Hopping Channel Number

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





3DH5_Ant1_Hop

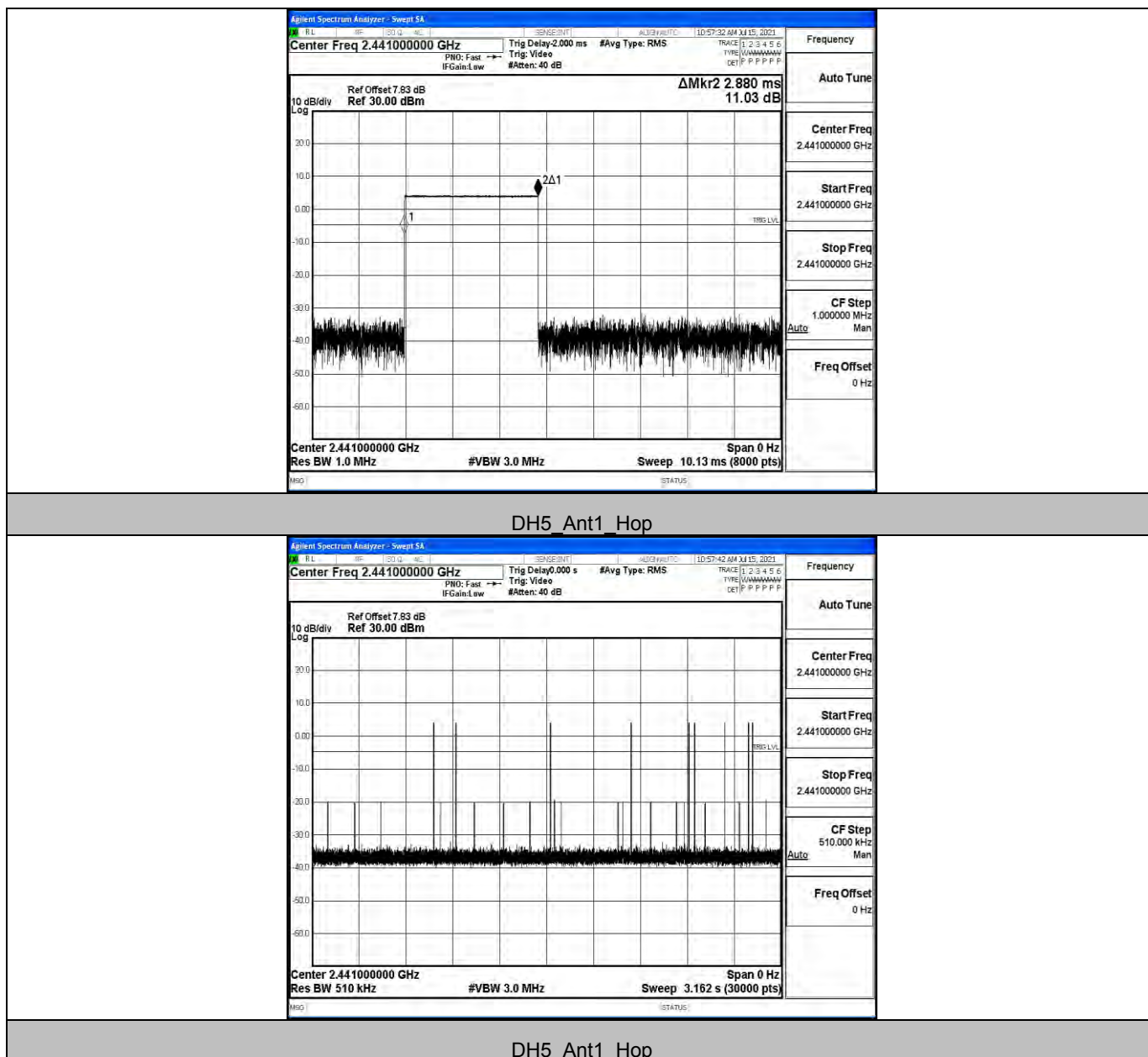


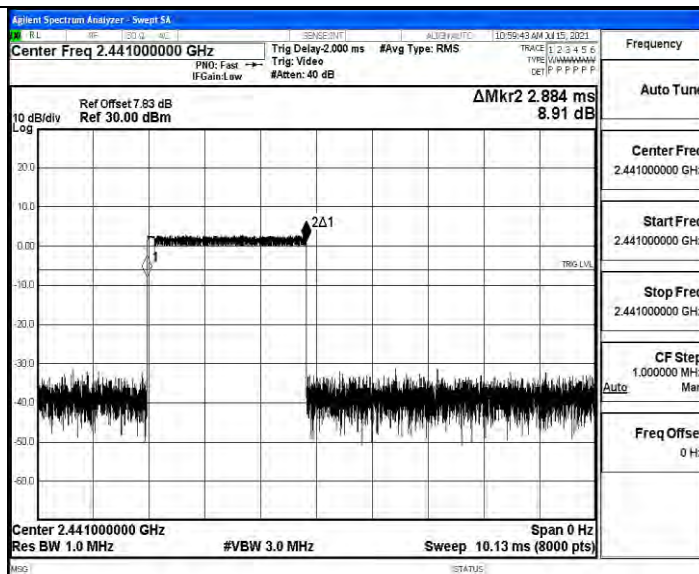
A.5 Dwell Time

Test Result

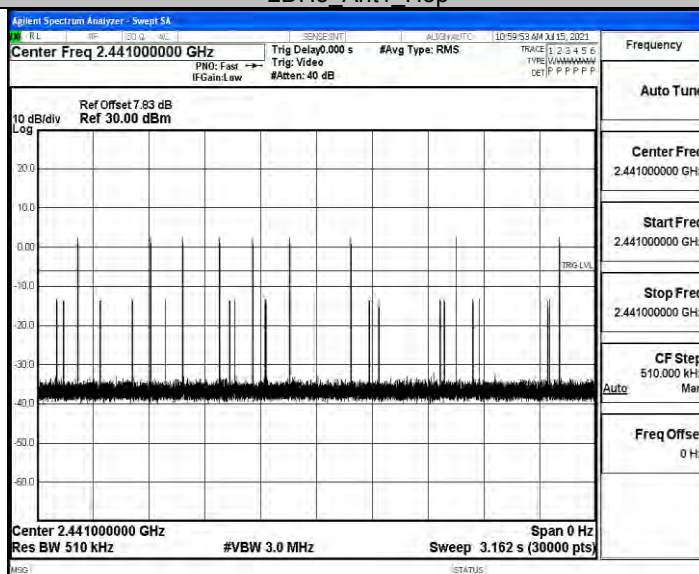
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH5	Ant1	Hop	2.89	70	0.202	≤0.4	PASS

Test Graphs

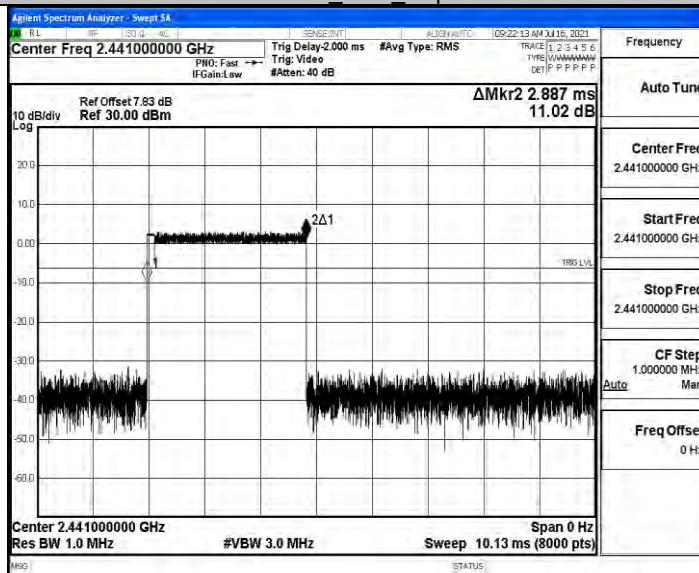




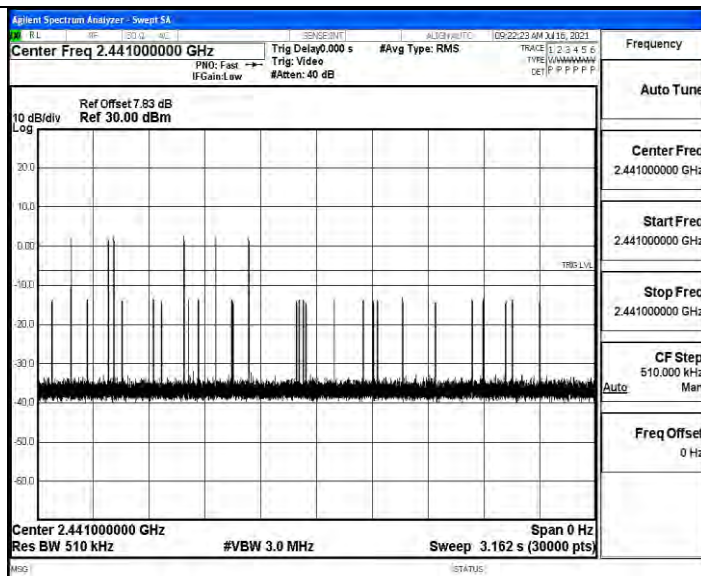
2DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



3DH5_Ant1_Hop



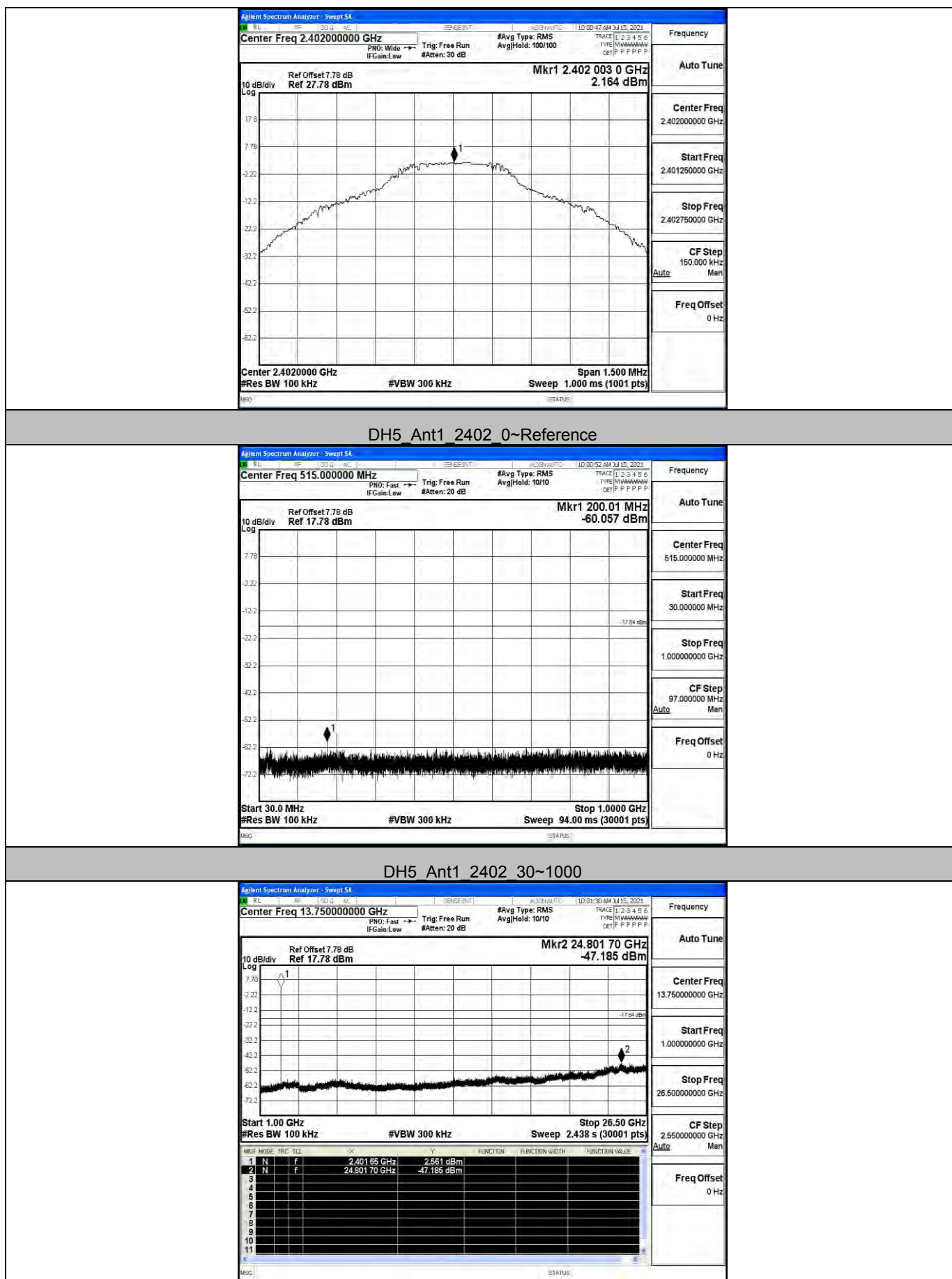
A.6 RF Conducted Spurious Emissions

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.16	2.16	---	PASS
			30~1000	2.16	-60.06	≤-17.84	PASS
			1000~26500	2.16	-47.19	≤-17.84	PASS
		2441	Reference	3.88	3.88	---	PASS
			30~1000	3.88	-58.53	≤-16.12	PASS
			1000~26500	3.88	-47.73	≤-16.12	PASS
		2480	Reference	2.25	2.25	---	PASS
			30~1000	2.25	-58.07	≤-17.75	PASS
			1000~26500	2.25	-48.02	≤-17.75	PASS
2DH5	Ant1	2402	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-57.7	≤-18.99	PASS
			1000~26500	1.01	-46.84	≤-18.99	PASS
		2441	Reference	2.19	2.19	---	PASS
			30~1000	2.19	-58.74	≤-17.81	PASS
			1000~26500	2.19	-48.08	≤-17.81	PASS
		2480	Reference	0.18	0.18	---	PASS
			30~1000	0.18	-57.44	≤-19.82	PASS
			1000~26500	0.18	-38.05	≤-19.82	PASS
3DH5	Ant1	2402	Reference	0.40	0.40	---	PASS
			30~1000	0.40	-59.19	≤-19.6	PASS
			1000~26500	0.40	-47.95	≤-19.6	PASS
		2441	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-59.97	≤-20.89	PASS
			1000~26500	-0.89	-48.09	≤-20.89	PASS
		2480	Reference	0.36	0.36	---	PASS
			30~1000	0.36	-59.39	≤-19.64	PASS
			1000~26500	0.36	-47.65	≤-19.64	PASS

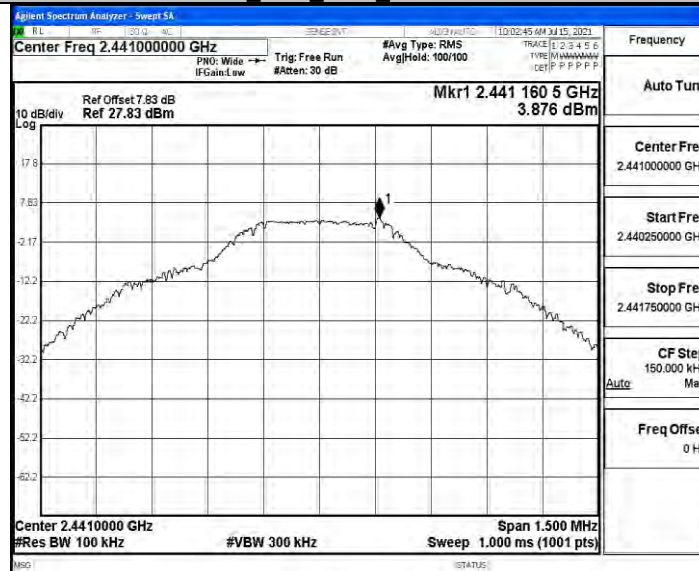


Test Graphs

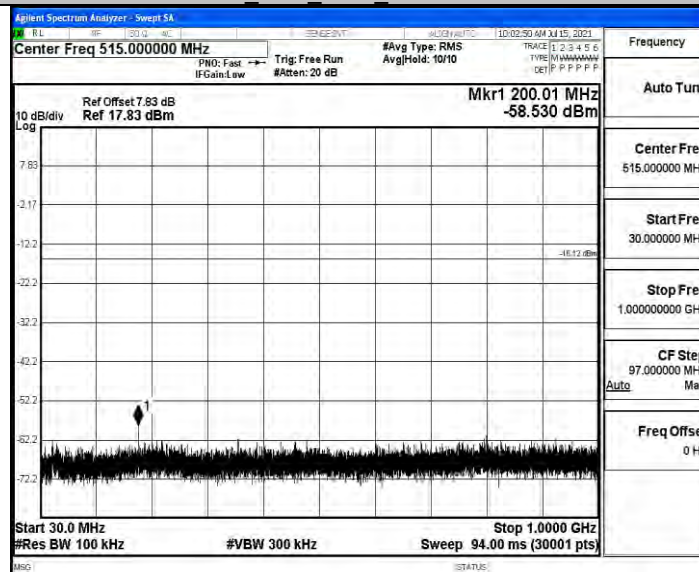




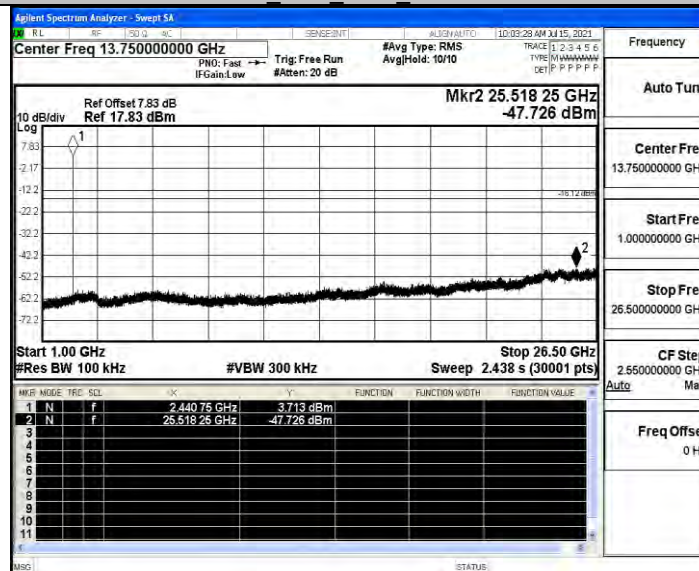
DH5_Ant1_2402_1000~26500



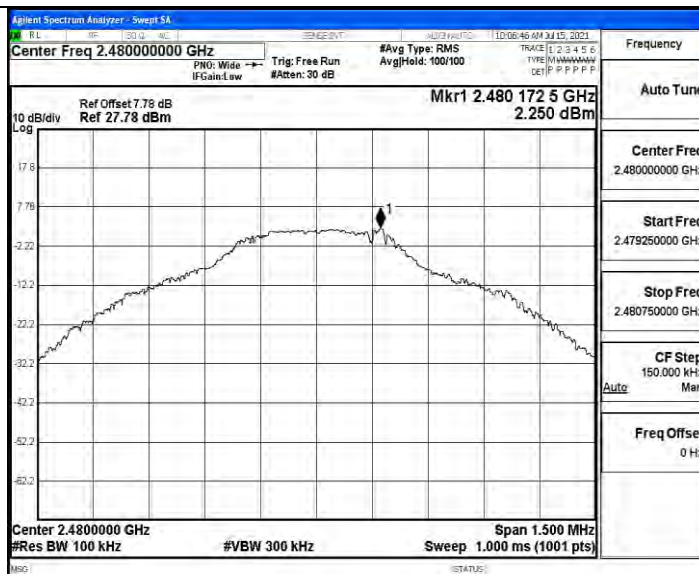
DH5_Ant1_2441_0~Reference



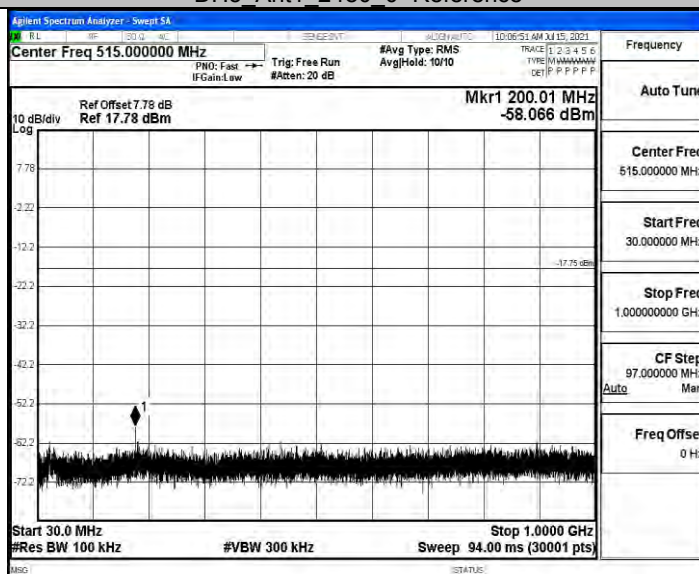
DH5_Ant1_2441_30~1000



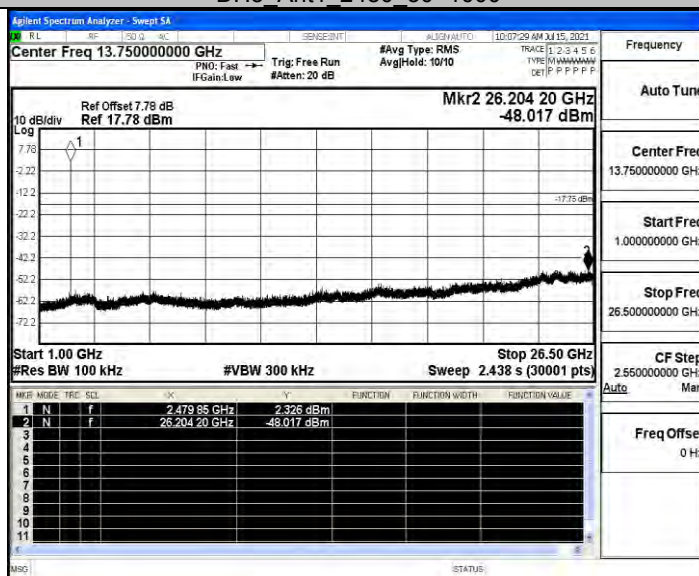
DH5_Ant1_2441_1000~26500



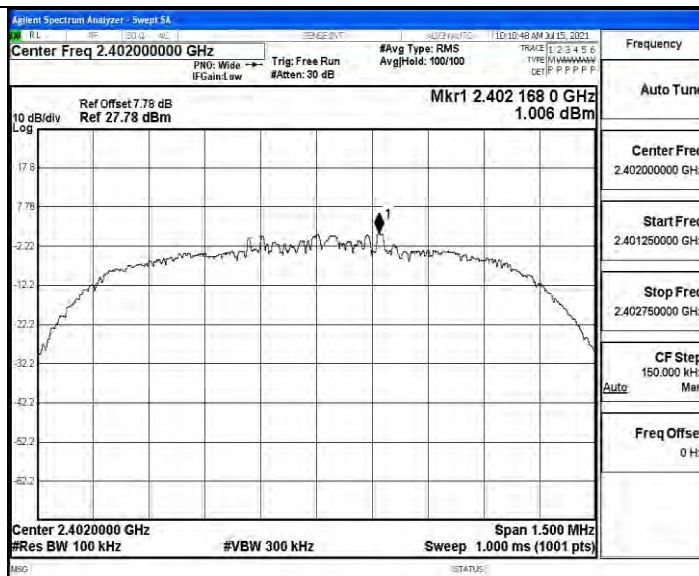
DH5_Ant1_2480_0~Reference



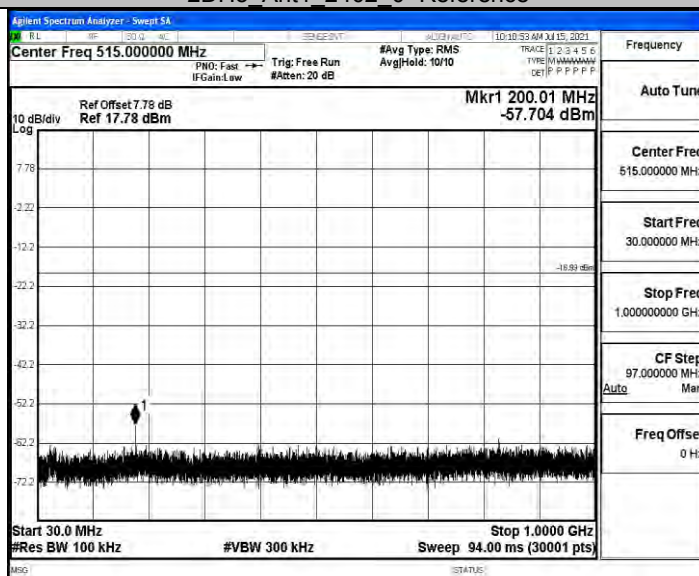
DH5_Ant1_2480_30~1000



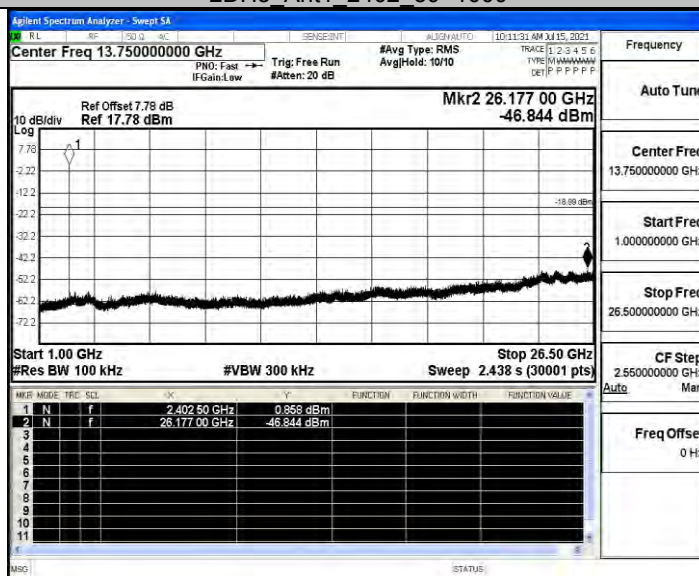
DH5_Ant1_2480_1000~26500



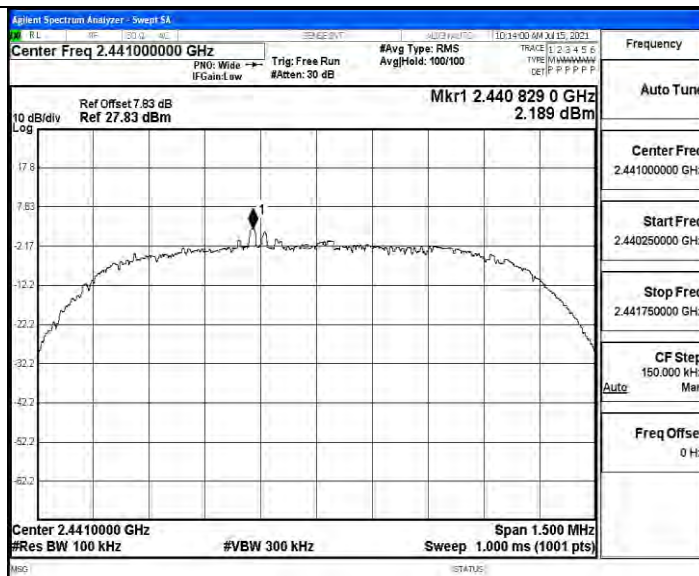
2DH5_Ant1_2402_0~Reference



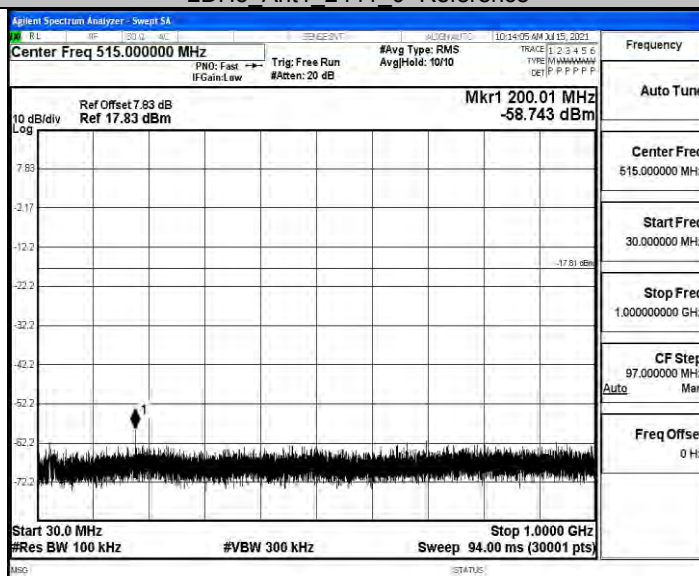
2DH5_Ant1_2402_30~1000



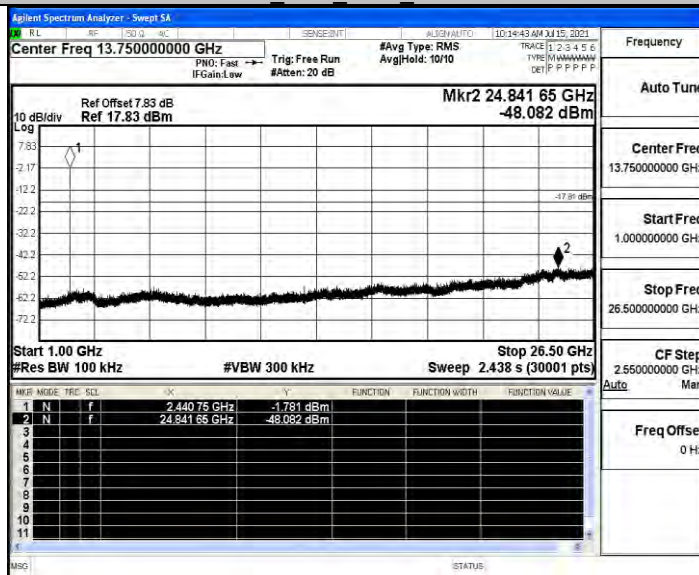
2DH5_Ant1_2402_1000~26500



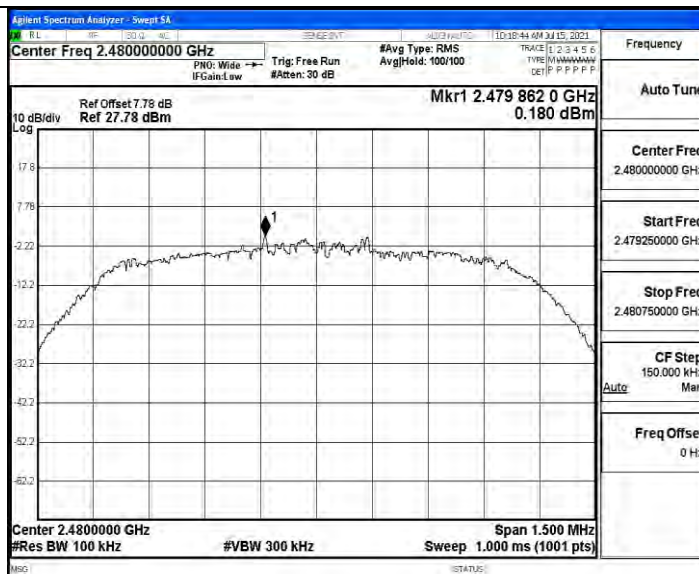
2DH5_Ant1_2441_0~Reference



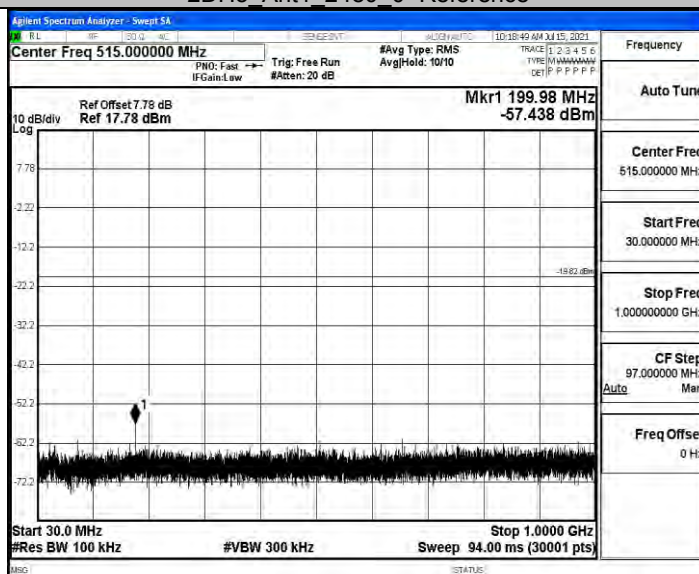
2DH5_Ant1_2441_30~1000



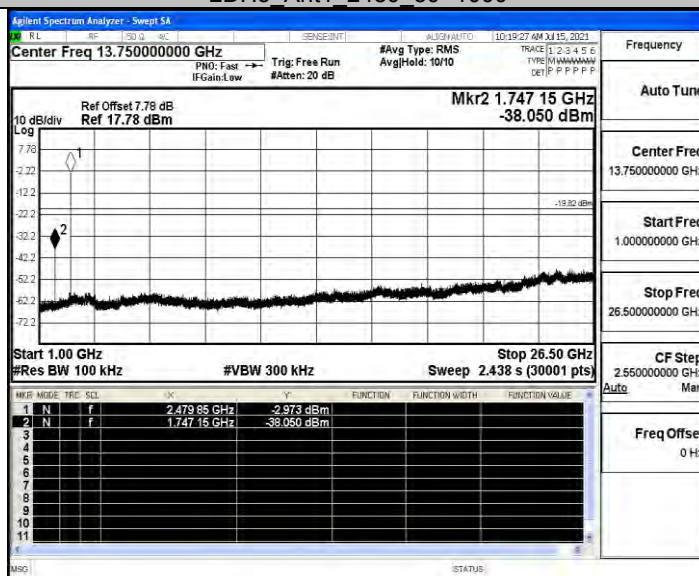
2DH5_Ant1_2441_1000~26500



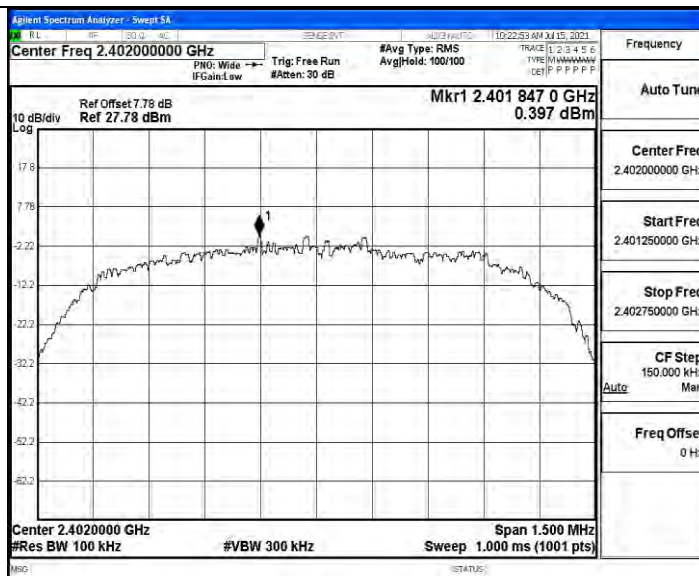
2DH5 Ant1 2480 0~Reference



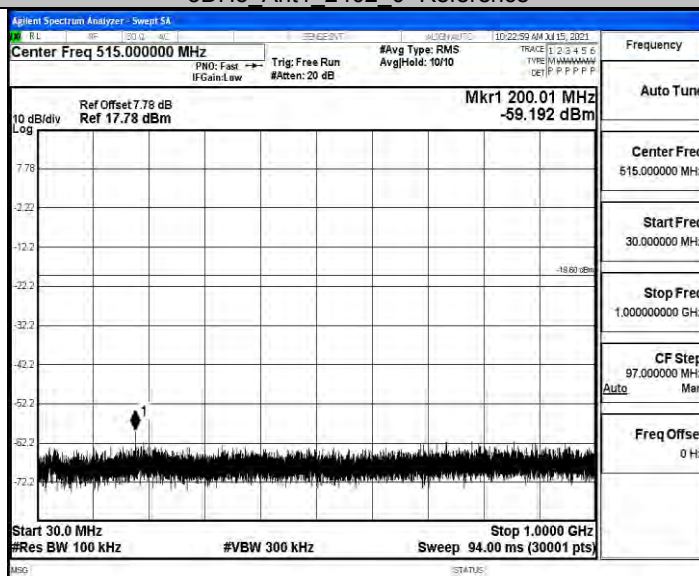
2DH5 Ant1 2480 30~1000



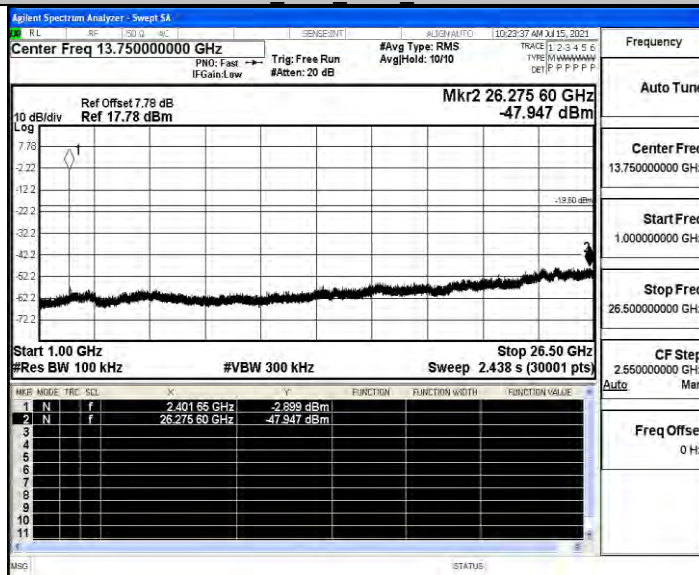
2DH5 Ant1 2480 1000~26500



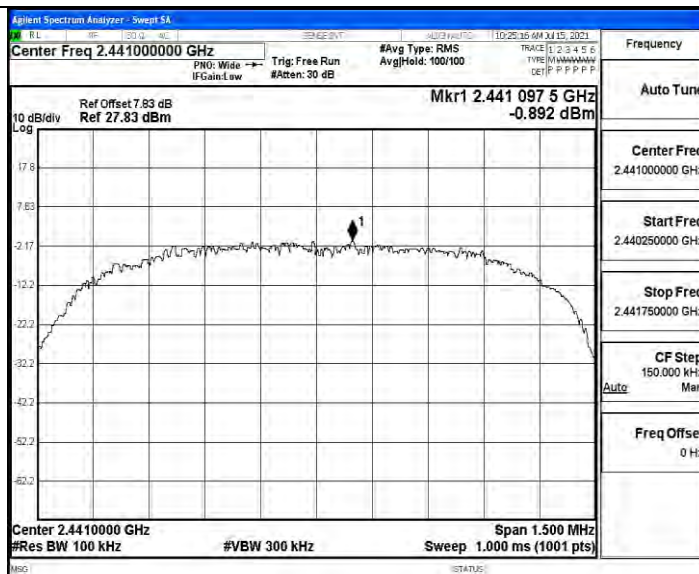
3DH5_Ant1_2402_0~Reference



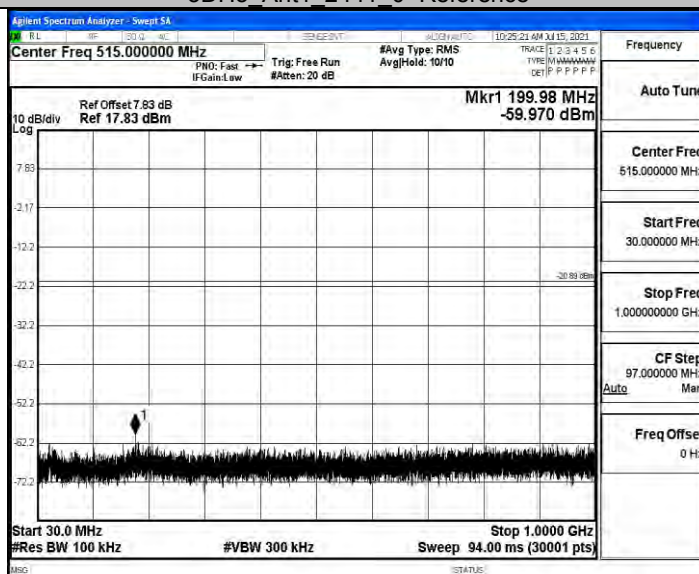
3DH5_Ant1_2402_30~1000



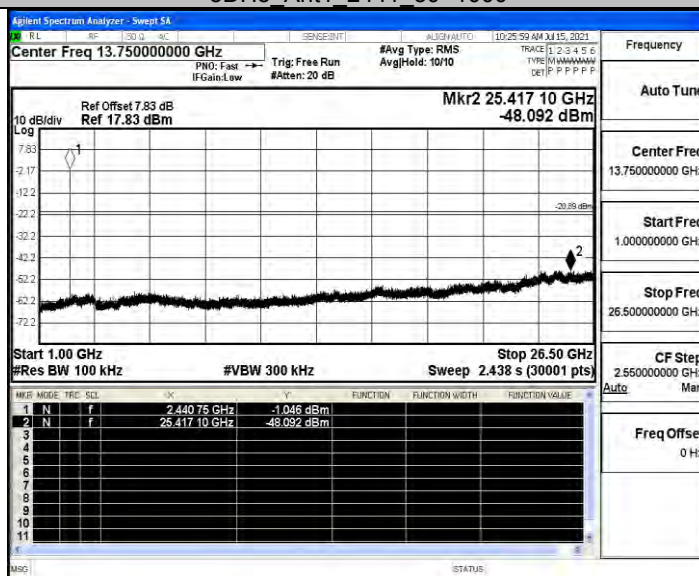
3DH5_Ant1_2402_1000~26500



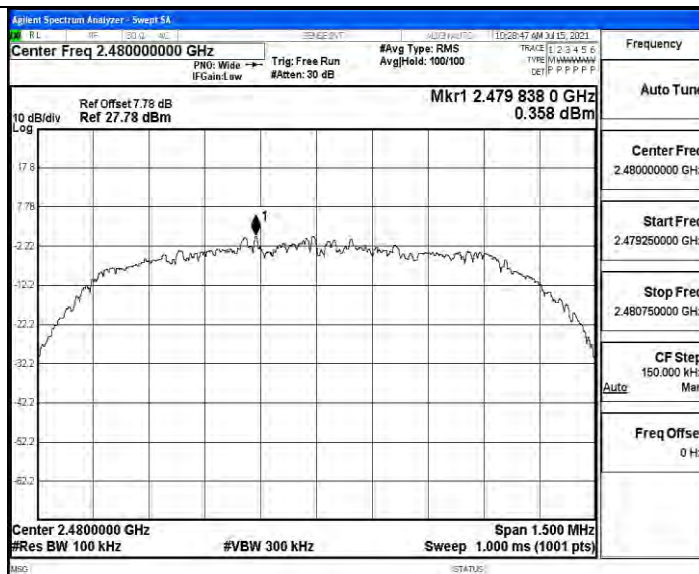
3DH5_Ant1_2441_0~Reference



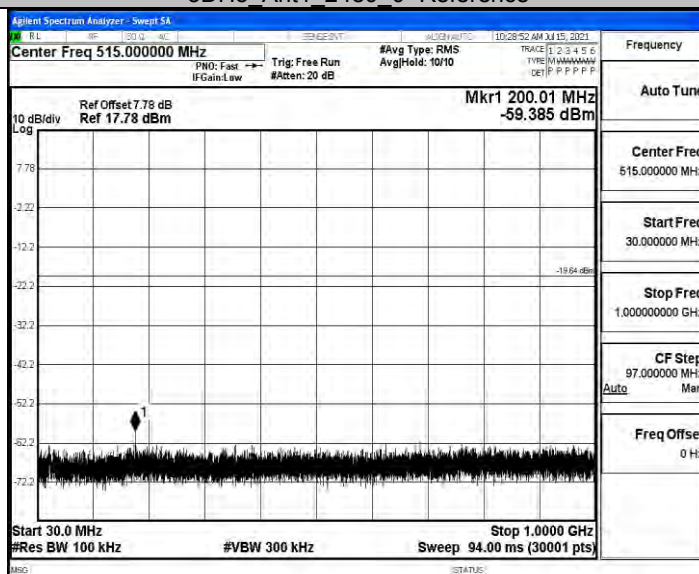
3DH5_Ant1_2441_30~1000



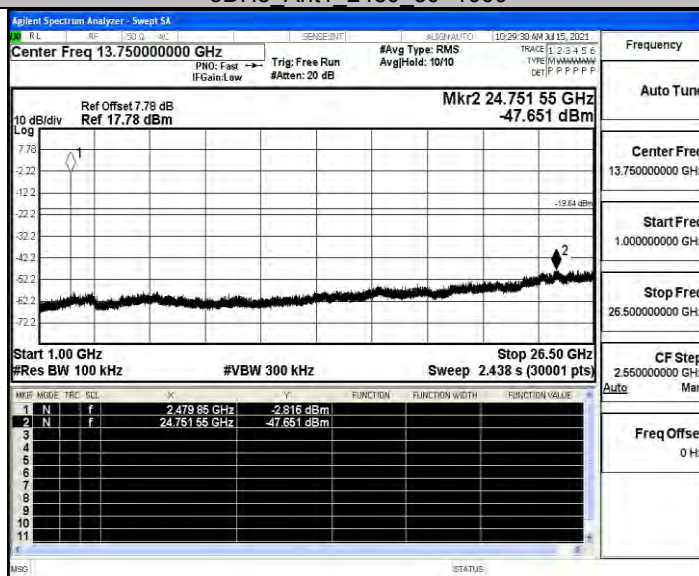
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



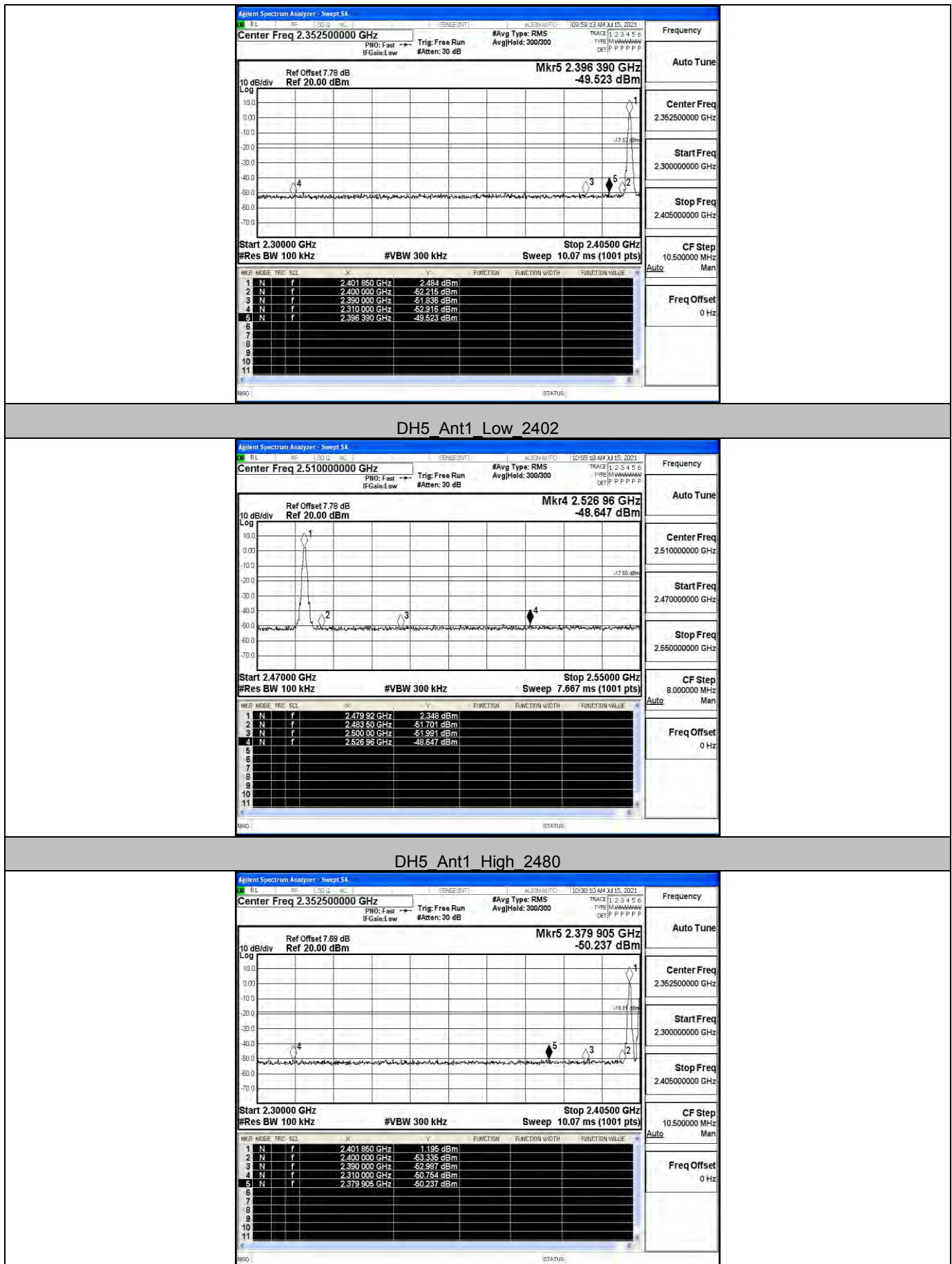
A.7 Band-edge for RF Conducted Emissions

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.48	-49.52	≤ -17.52	PASS
		High	2480	2.35	-48.65	≤ -17.65	PASS
		Low	Hop_2402	1.20	-50.24	≤ -18.81	PASS
		High	Hop_2480	2.59	-49.21	≤ -17.41	PASS
2DH5	Ant1	Low	2402	-0.63	-49.86	≤ -20.63	PASS
		High	2480	-0.16	-48.93	≤ -20.16	PASS
		Low	Hop_2402	-2.27	-49.91	≤ -22.27	PASS
		High	Hop_2480	-0.24	-48.33	≤ -20.24	PASS
3DH5	Ant1	Low	2402	-0.24	-49.89	≤ -20.24	PASS
		High	2480	3.93	-49.32	≤ -16.07	PASS
		Low	Hop_2402	-2.51	-50.25	≤ -22.51	PASS
		High	Hop_2480	4.24	-48.64	≤ -15.76	PASS

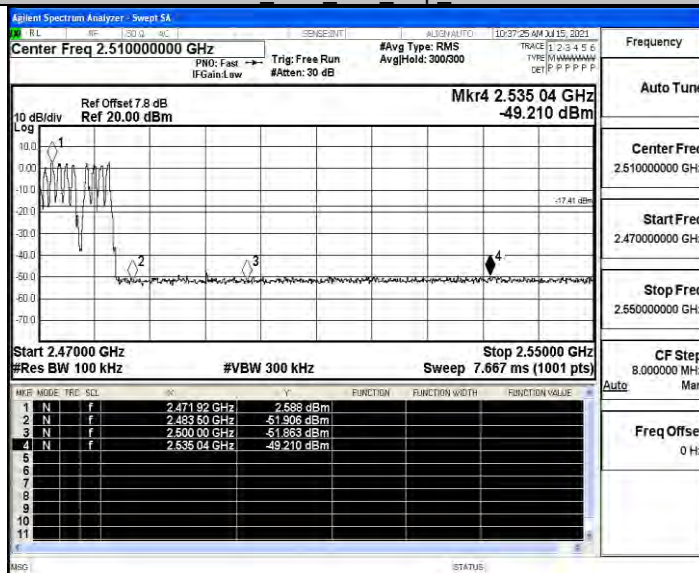


Test Graphs

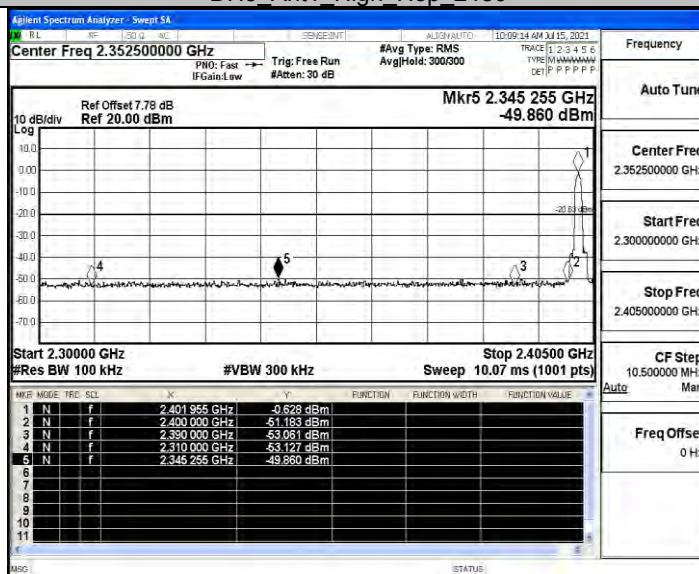




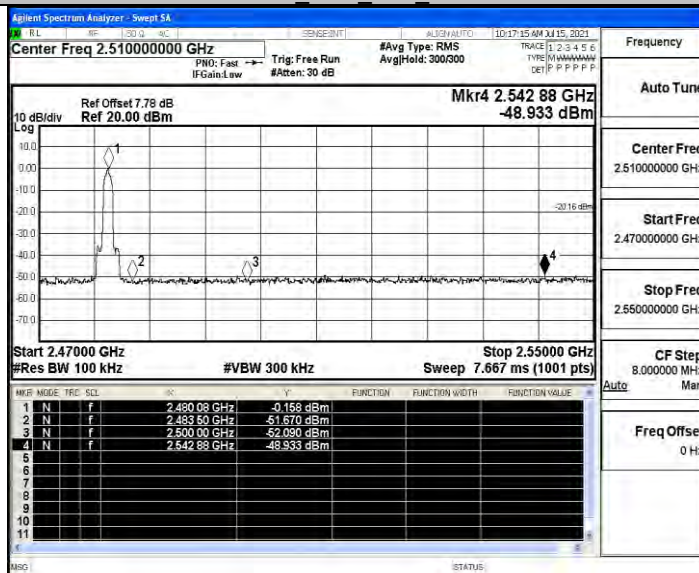
DH5_Ant1_Low_Hop_2402



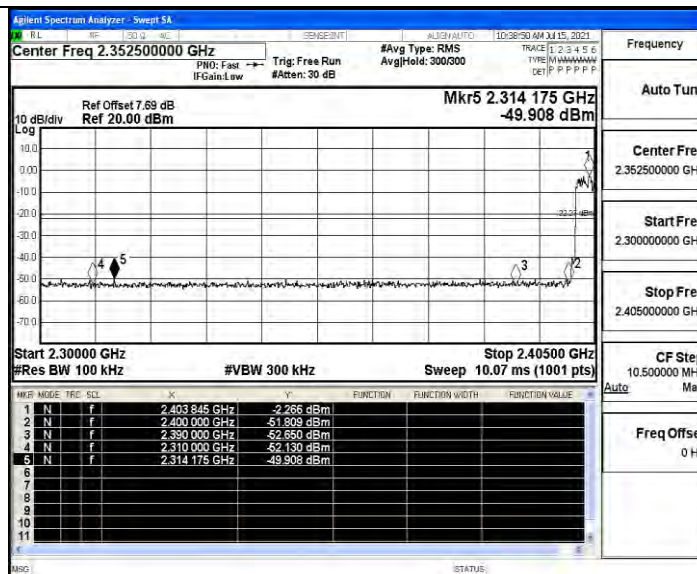
DH5_Ant1_High_Hop_2480



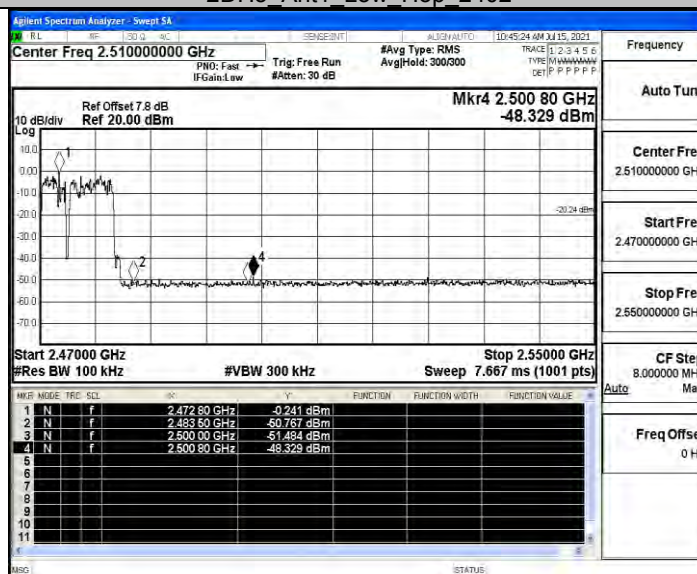
2DH5_Ant1_Low_2402



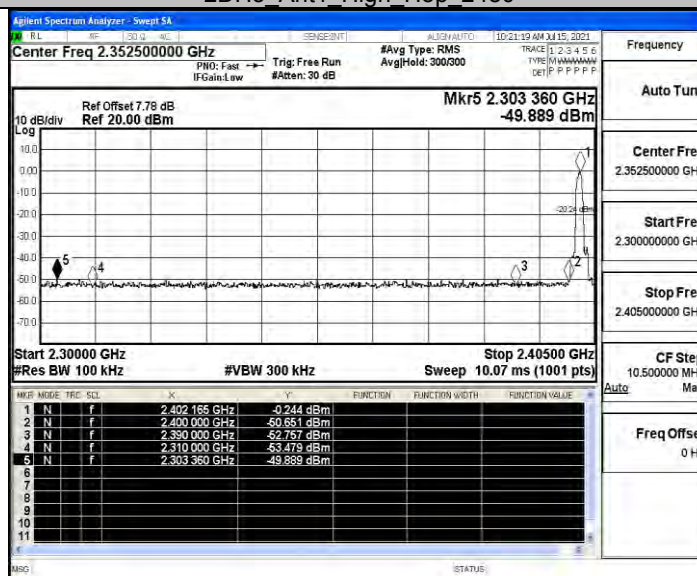
2DH5_Ant1_High_2480



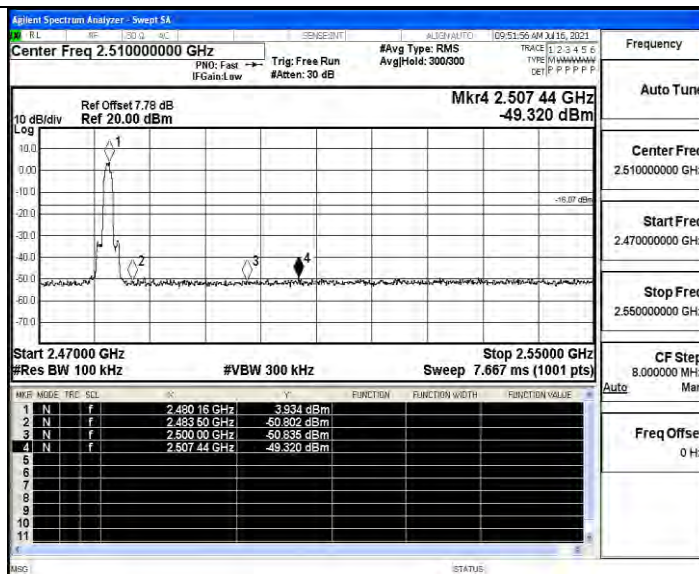
2DH5 Ant1 Low Hop 2402



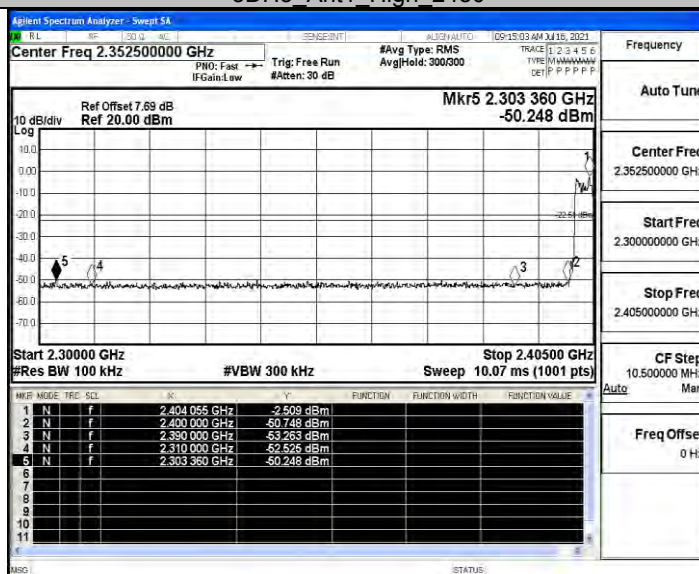
2DH5 Ant1 High Hop 2480



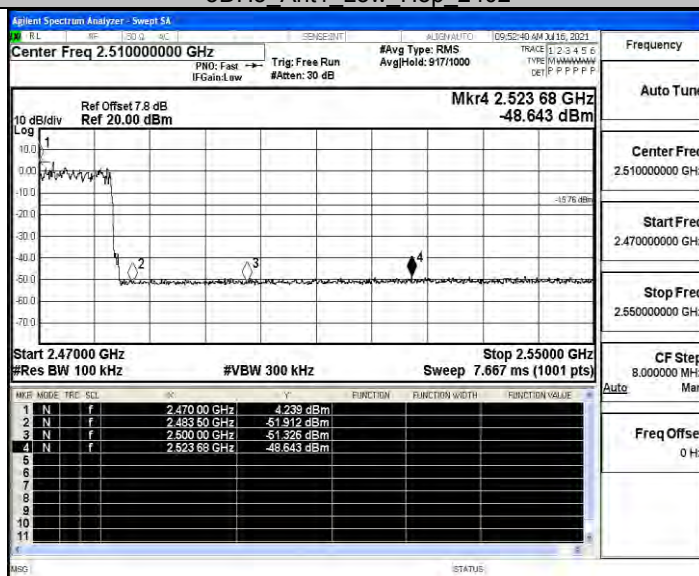
3DH5 Ant1 Low 2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

**A.8 Restrict-band band-edge measurements****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	-49.07	≤-41.20	46.13	≤54	PASS
				AV	2382.845	-48.59	≤-41.20	46.61	≤54	PASS
				AV	2390.000	-48.73	≤-41.20	46.47	≤54	PASS
				Peak	2310.000	-42.23	≤-21.20	52.97	≤74	PASS
				Peak	2369.300	-38.82	≤-21.20	56.38	≤74	PASS
				Peak	2390.000	-42.13	≤-21.20	53.07	≤74	PASS
		High	2480	AV	2483.500	-47.82	≤-41.20	47.38	≤54	PASS
				AV	2483.520	-47.81	≤-41.20	47.39	≤54	PASS
				AV	2500.000	-48.15	≤-41.20	47.05	≤54	PASS
				Peak	2483.500	-40.73	≤-21.20	54.47	≤74	PASS
				Peak	2492.000	-38.33	≤-21.20	56.87	≤74	PASS
				Peak	2500.000	-40.37	≤-21.20	54.83	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.06	≤-41.20	46.14	≤54	PASS
				AV	2384.630	-48.58	≤-41.20	46.62	≤54	PASS
				AV	2390.000	-48.71	≤-41.20	46.49	≤54	PASS
				Peak	2310.000	-42.44	≤-21.20	52.76	≤74	PASS
				Peak	2337.065	-38.99	≤-21.20	56.21	≤74	PASS
				Peak	2390.000	-41.34	≤-21.20	53.86	≤74	PASS
		High	2480	AV	2483.500	-47.68	≤-41.20	47.52	≤54	PASS
				AV	2483.520	-47.68	≤-41.20	47.52	≤54	PASS
				AV	2500.000	-48.16	≤-41.20	47.04	≤54	PASS
				Peak	2483.500	-40.9	≤-21.20	54.30	≤74	PASS
				Peak	2497.440	-37.59	≤-21.20	57.61	≤74	PASS
				Peak	2500.000	-39.47	≤-21.20	55.73	≤74	PASS
≤74	PASS	Low	2402	AV	2310.000	-49.17	≤-41.20	46.03	≤54	PASS
				AV	2378.960	-48.57	≤-41.20	46.63	≤54	PASS
				AV	2390.000	-48.65	≤-41.20	46.55	≤54	PASS
				Peak	2310.000	-41.86	≤-21.20	53.34	≤74	PASS
				Peak	2384.840	-38.98	≤-21.20	56.22	≤74	PASS
				Peak	2390.000	-41.02	≤-21.20	54.18	≤74	PASS
		High	2480	AV	2483.500	-47.82	≤-41.20	47.38	≤54	PASS
				AV	2483.520	-47.82	≤-41.20	47.38	≤54	PASS
				AV	2500.000	-48.16	≤-41.20	47.04	≤54	PASS
				Peak	2483.500	-41.75	≤-21.20	53.45	≤74	PASS
				Peak	2493.200	-38.94	≤-21.20	56.26	≤74	PASS



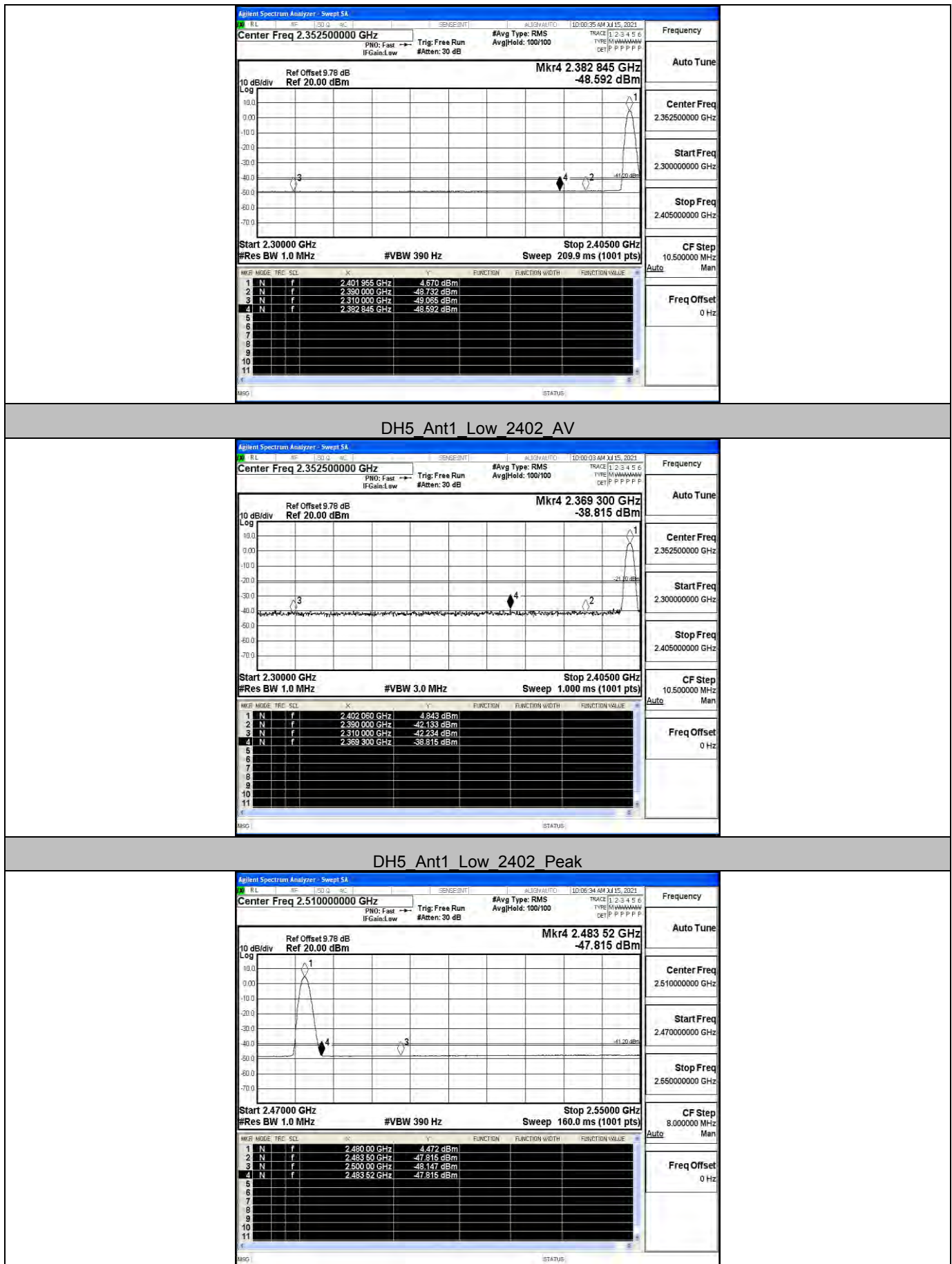
				Peak	2500.000	-41.64	≤-21.20	53.56	≤74	PASS
--	--	--	--	------	----------	--------	---------	-------	-----	------

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.

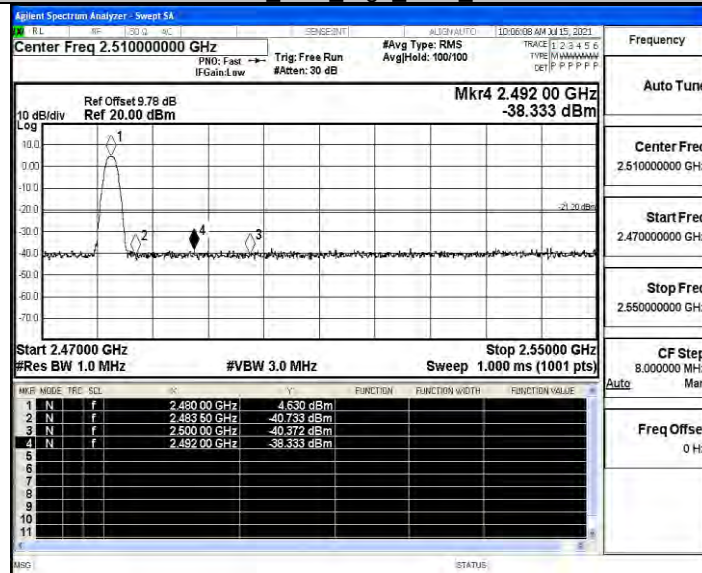


Test Graphs

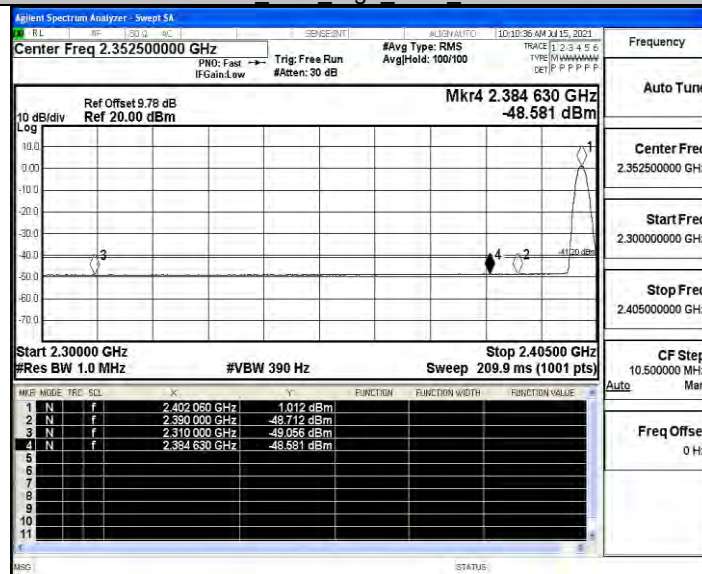




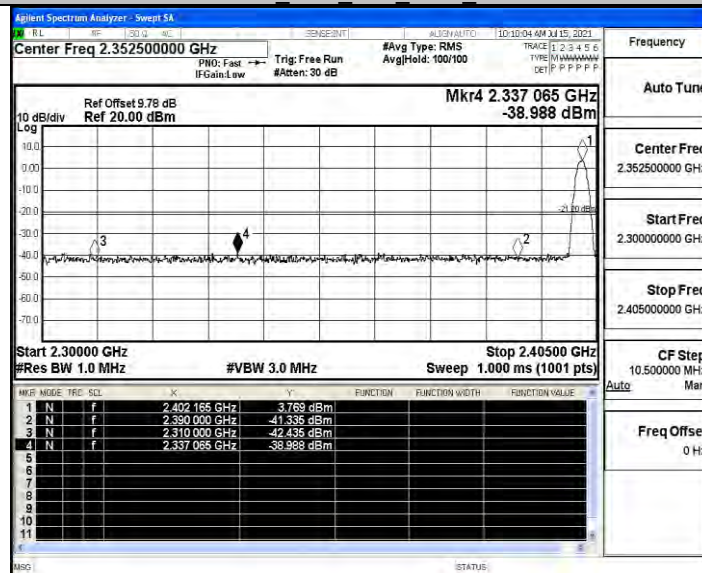
DH5 Ant1 High 2480 AV



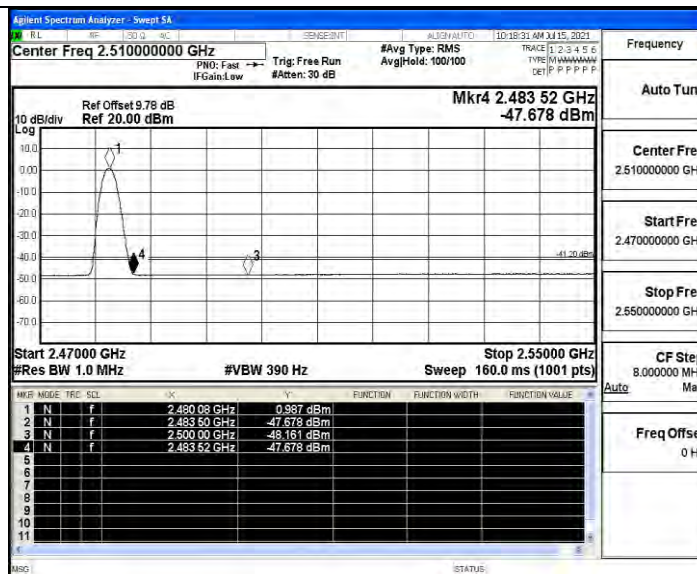
DH5 Ant1 High 2480 Peak



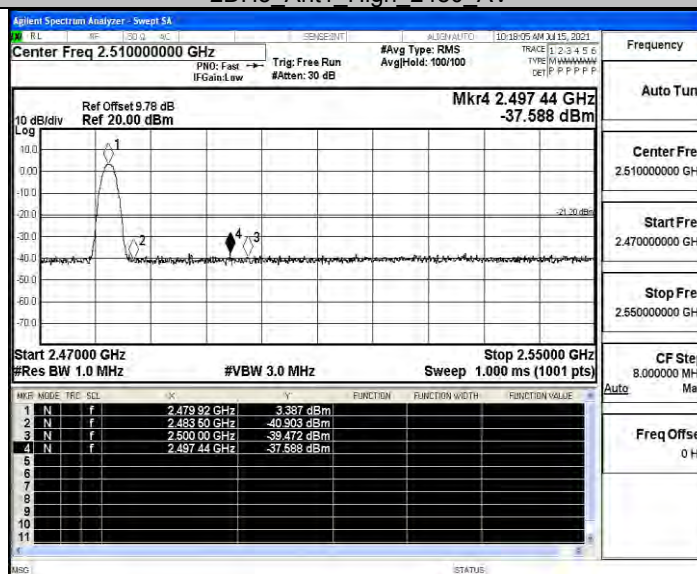
2DH5 Ant1 Low 2402 AV



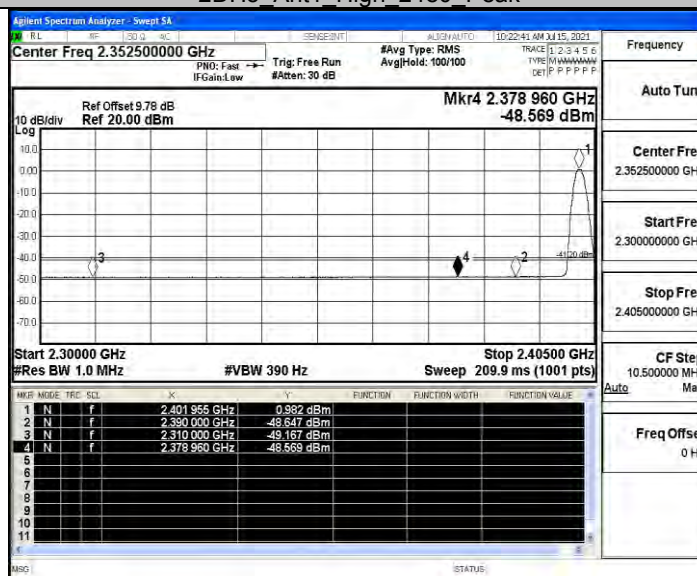
2DH5 Ant1 Low 2402 Peak



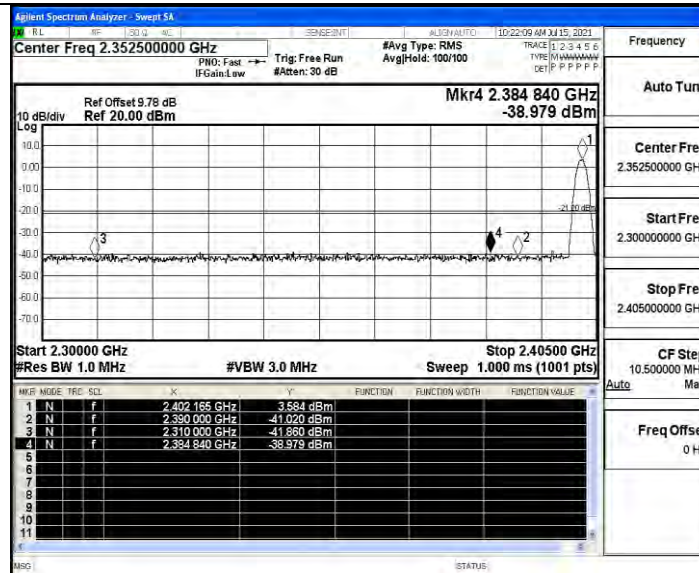
2DH5 Ant1 High 2480 AV



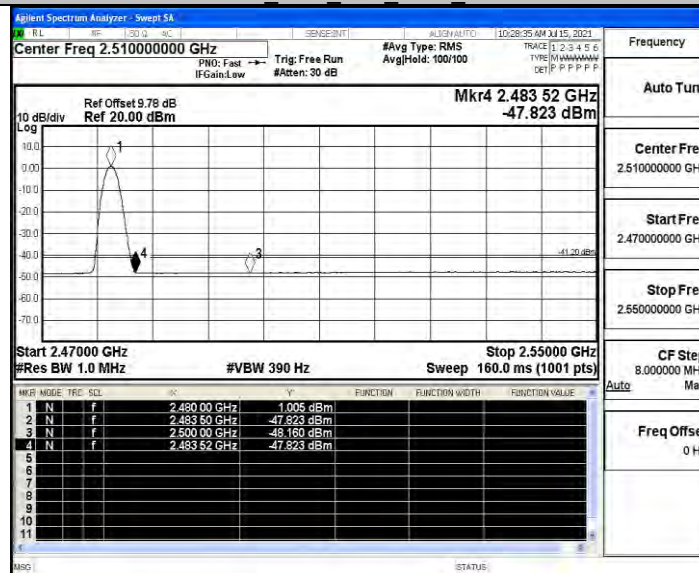
2DH5 Ant1 High 2480 Peak



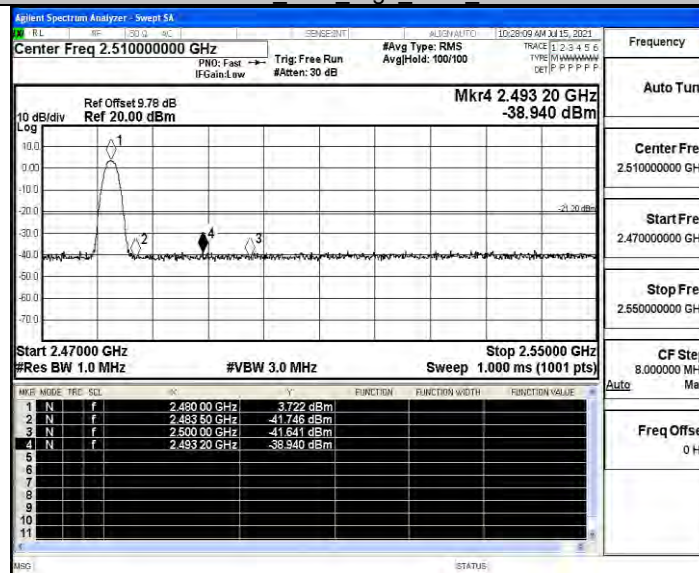
3DH5 Ant1 Low 2402 AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak