

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

Product Name:PCIE Wireless Card

Trade Mark:N/A

Test Model:PCE-3100

FCC ID: 2AYYXPCE-3100

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

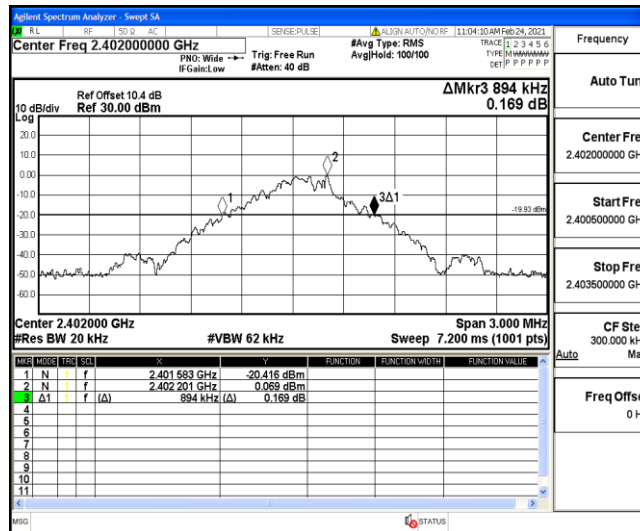
Appendix A: 20dB Emission Bandwidth

Test Result

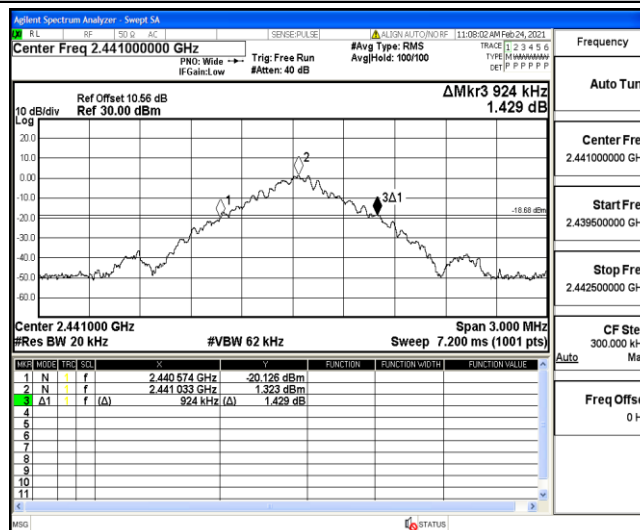
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.894	2401.583	2402.477	Not Specified	PASS
		2441	0.924	2440.574	2441.498	Not Specified	PASS
		2480	0.876	2479.580	2480.456	Not Specified	PASS
2DH5	Ant1	2402	1.323	2401.373	2402.696	Not Specified	PASS
		2441	1.329	2440.367	2441.696	Not Specified	PASS
		2480	1.362	2479.349	2480.711	Not Specified	PASS
3DH5	Ant1	2402	1.335	2401.367	2402.702	Not Specified	PASS
		2441	1.311	2440.379	2441.690	Not Specified	PASS
		2480	1.344	2479.352	2480.696	Not Specified	PASS

Test Graphs

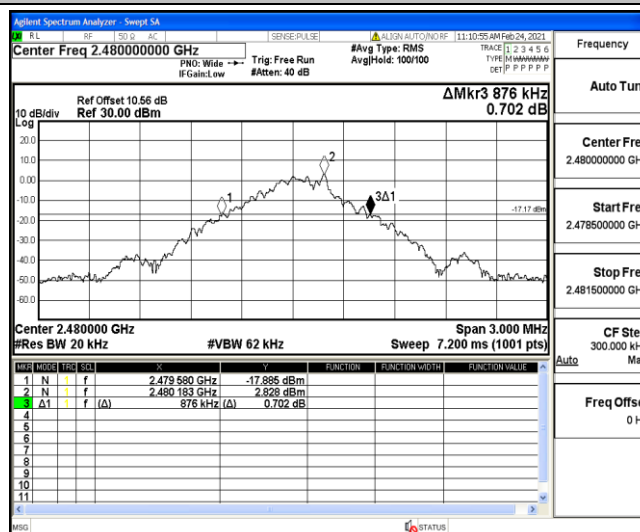
DH5_Ant1_2402



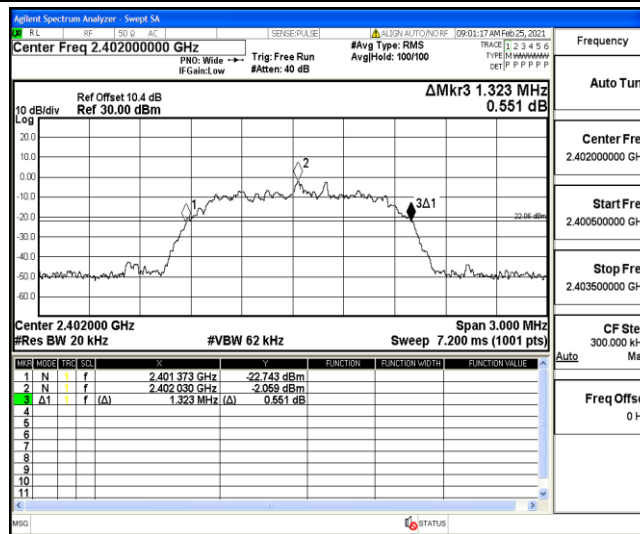
DH5_Ant1_2441



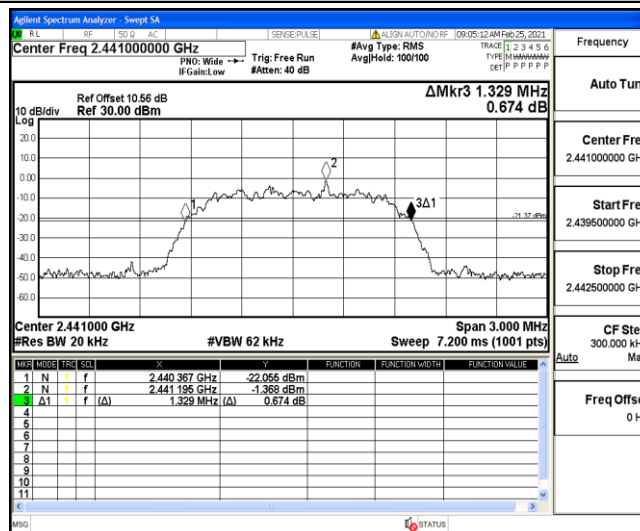
DH5_Ant1_2480



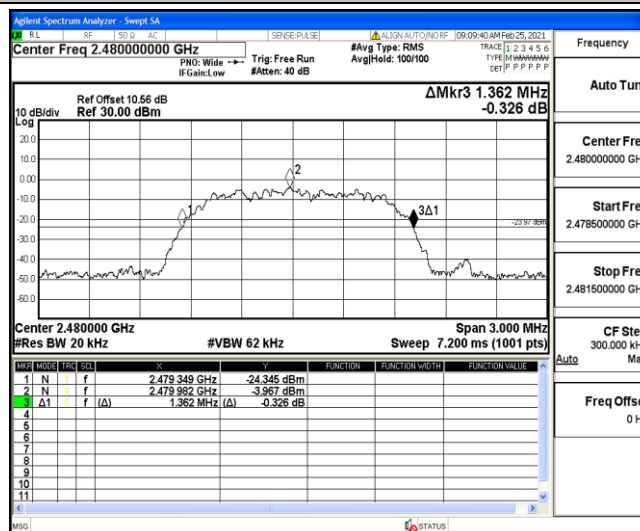
2DH5_Ant1_2402



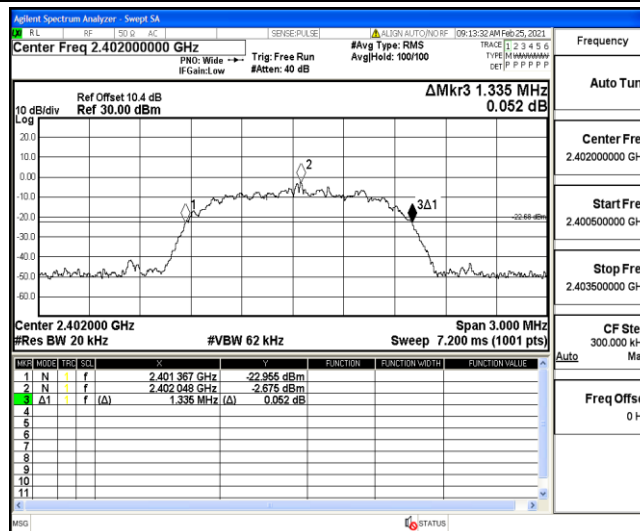
2DH5_Ant1_2441



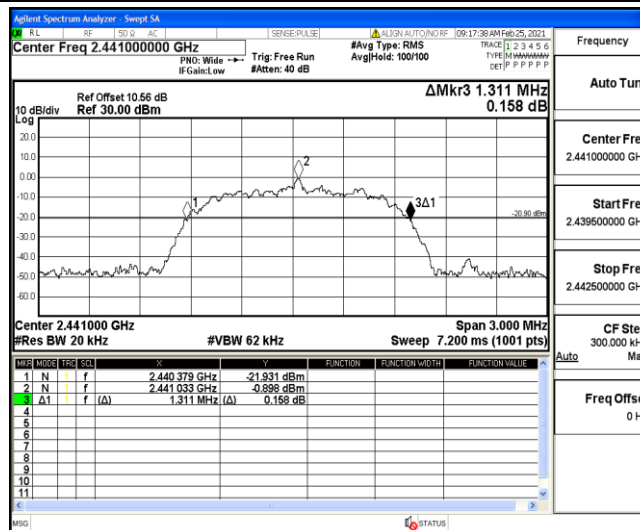
2DH5_Ant1_2480



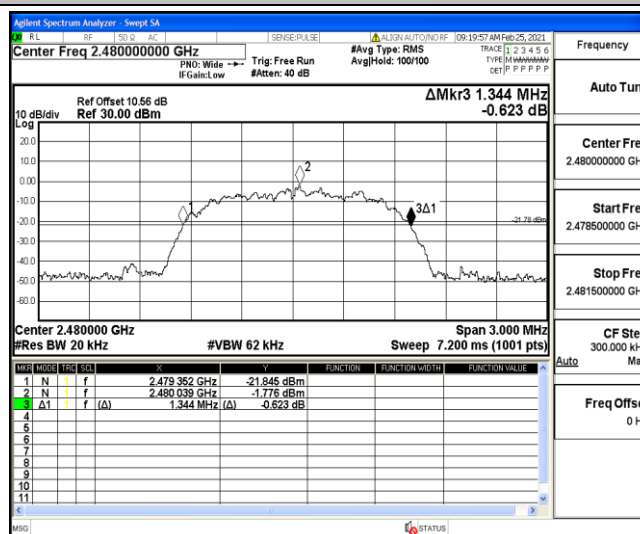
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

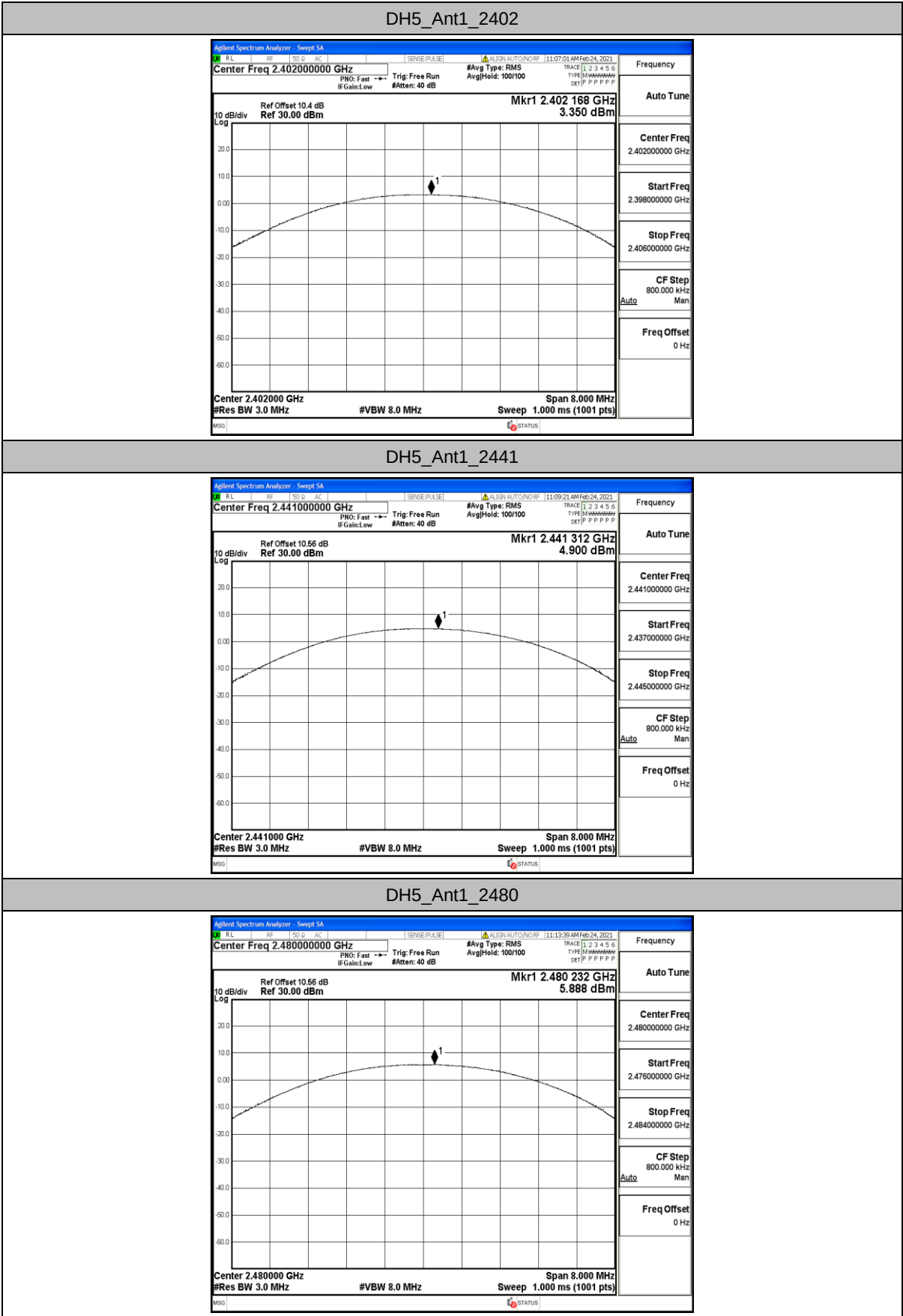


Appendix B: Maximum conducted output power

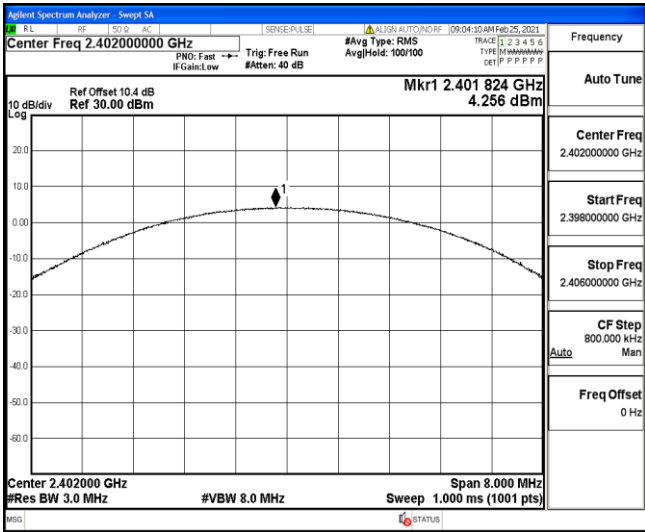
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.35	<=30	PASS
		2441	4.9	<=30	PASS
		2480	5.89	<=30	PASS
2DH5	Ant1	2402	4.26	<=20.97	PASS
		2441	5.32	<=20.97	PASS
		2480	6.08	<=20.97	PASS
3DH5	Ant1	2402	4.66	<=20.97	PASS
		2441	5.69	<=20.97	PASS
		2480	6.48	<=20.97	PASS

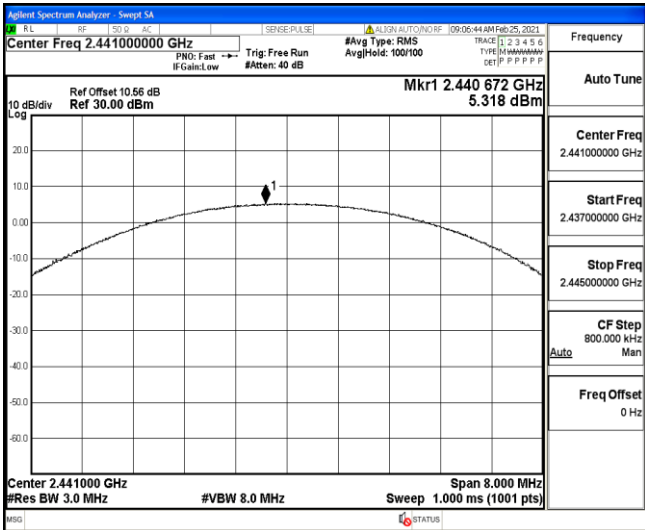
Test Graphs



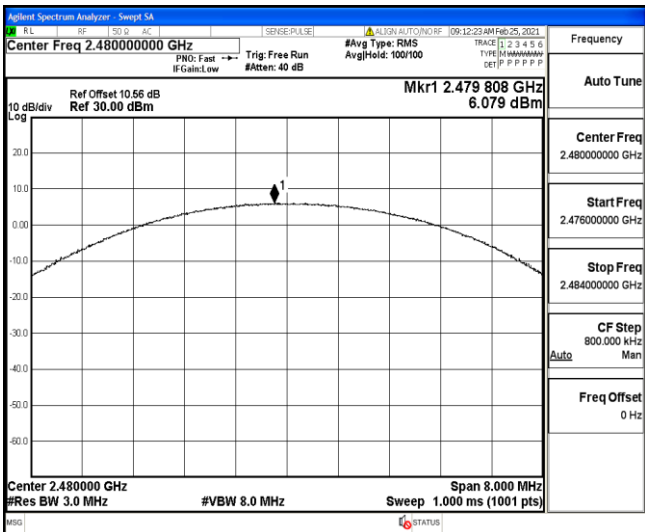
2DH5_Ant1_2402



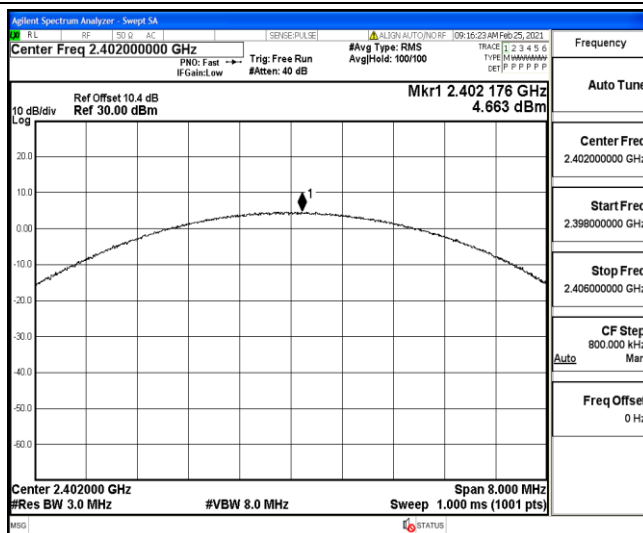
2DH5_Ant1_2441



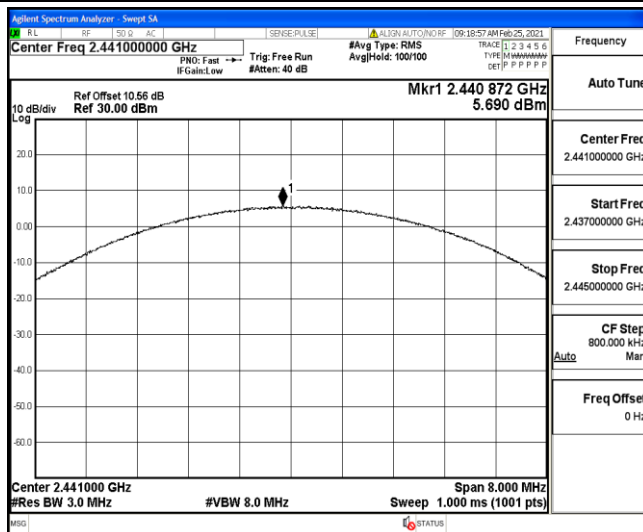
2DH5_Ant1_2480



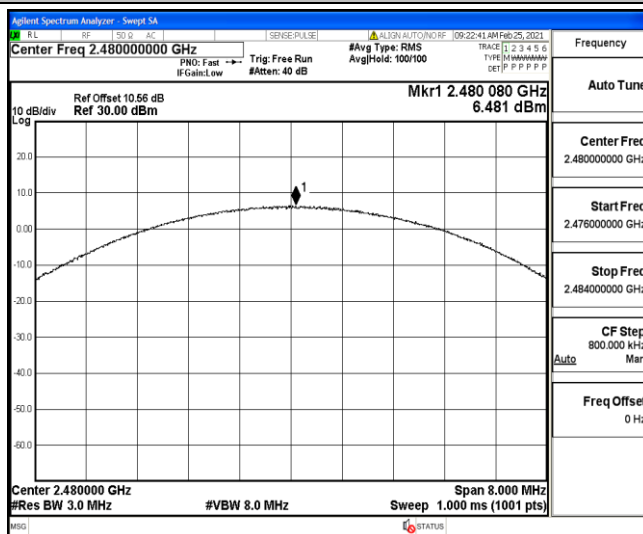
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

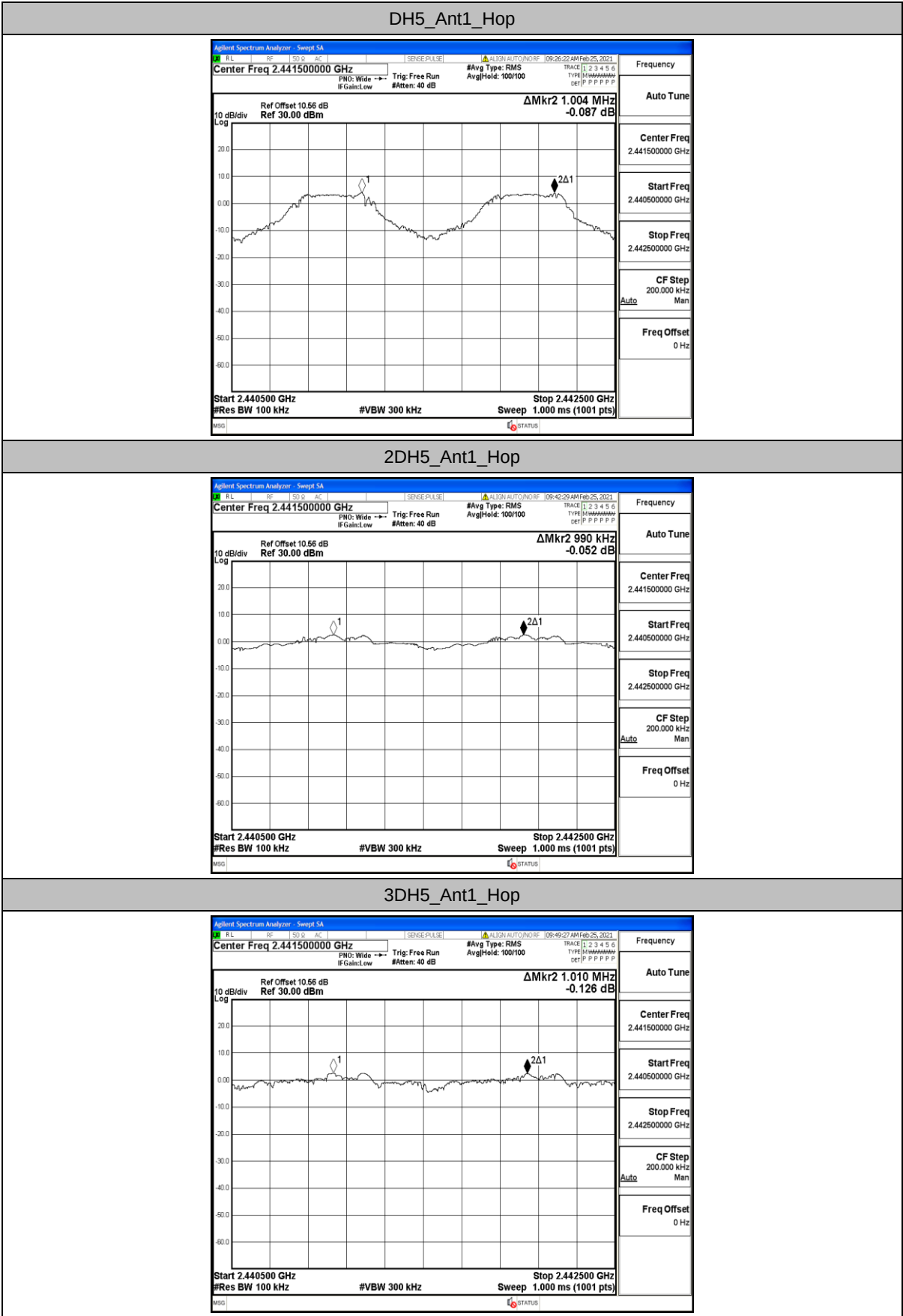


Appendix C: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.951	PASS
2DH5	Ant1	Hop	0.99	≥ 0.882	PASS
3DH5	Ant1	Hop	1.01	≥ 0.894	PASS

Test Graphs

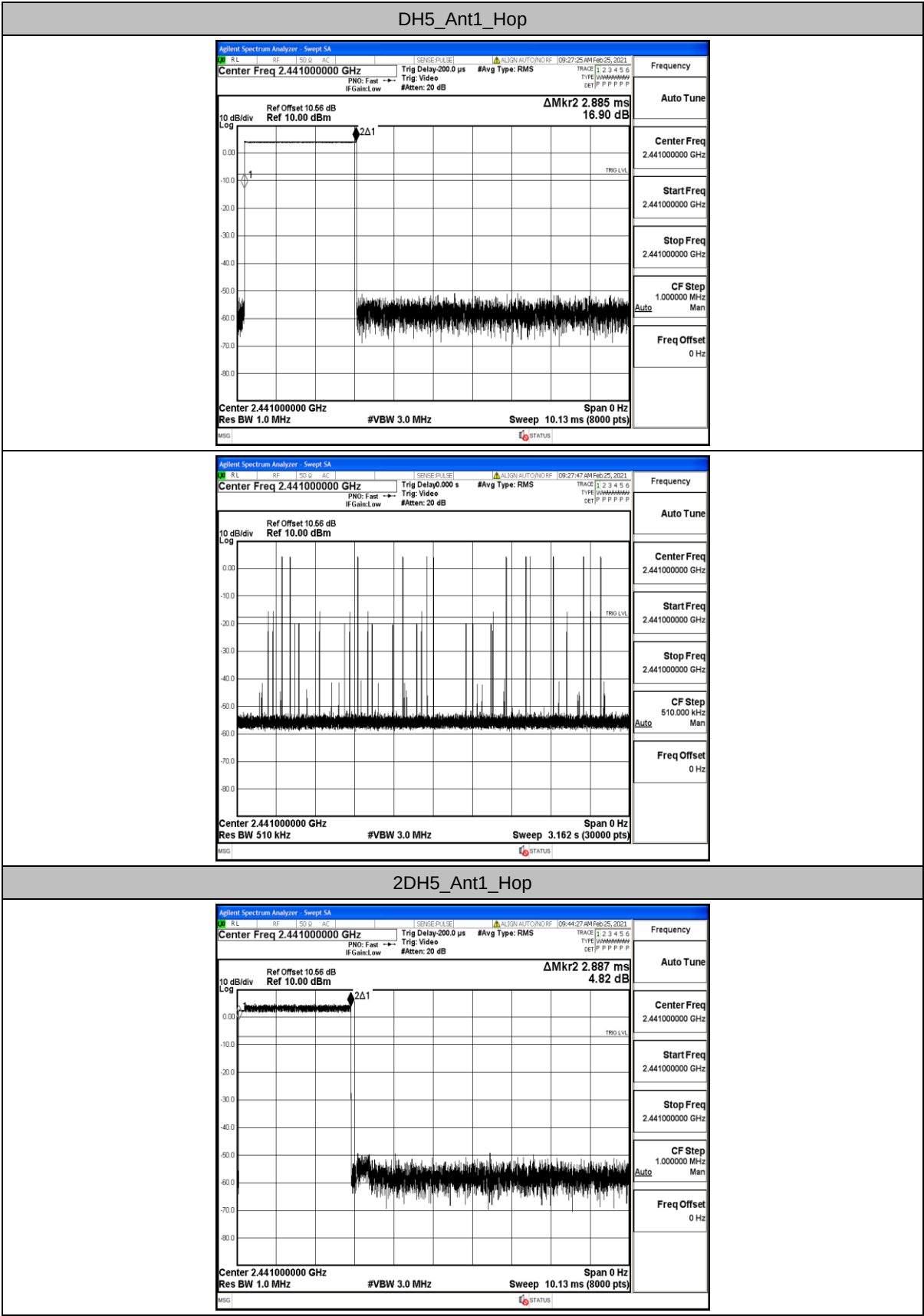


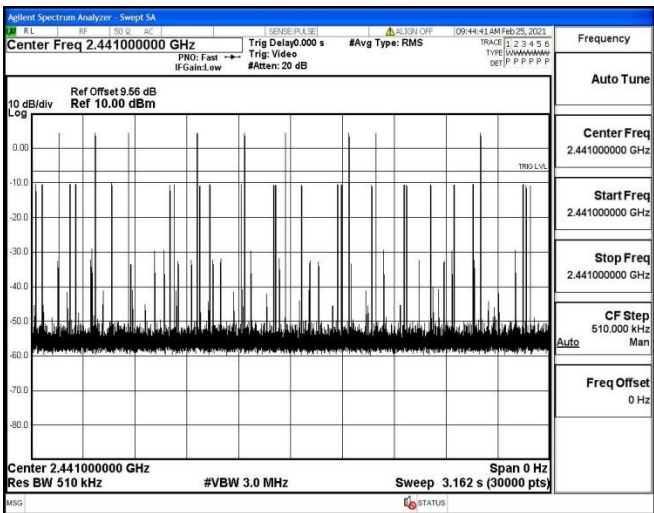
Appendix D: Time of occupancy

Test Result

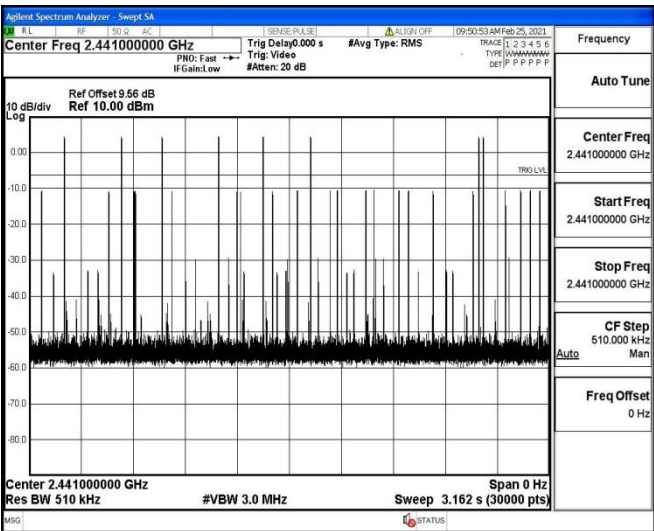
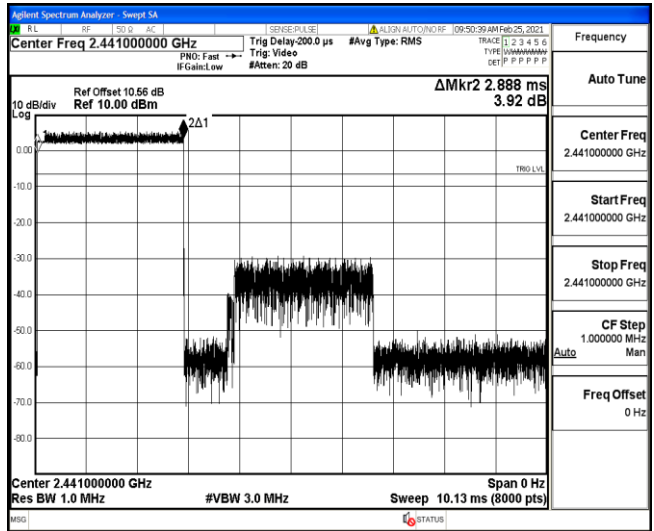
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	130	0.375	<=0.4	PASS
2DH5	Ant1	Hop	2.90	100	0.29	<=0.4	PASS
3DH5	Ant1	Hop	2.90	90	0.261	<=0.4	PASS

Test Graphs





3DH5_Ant1_Hop

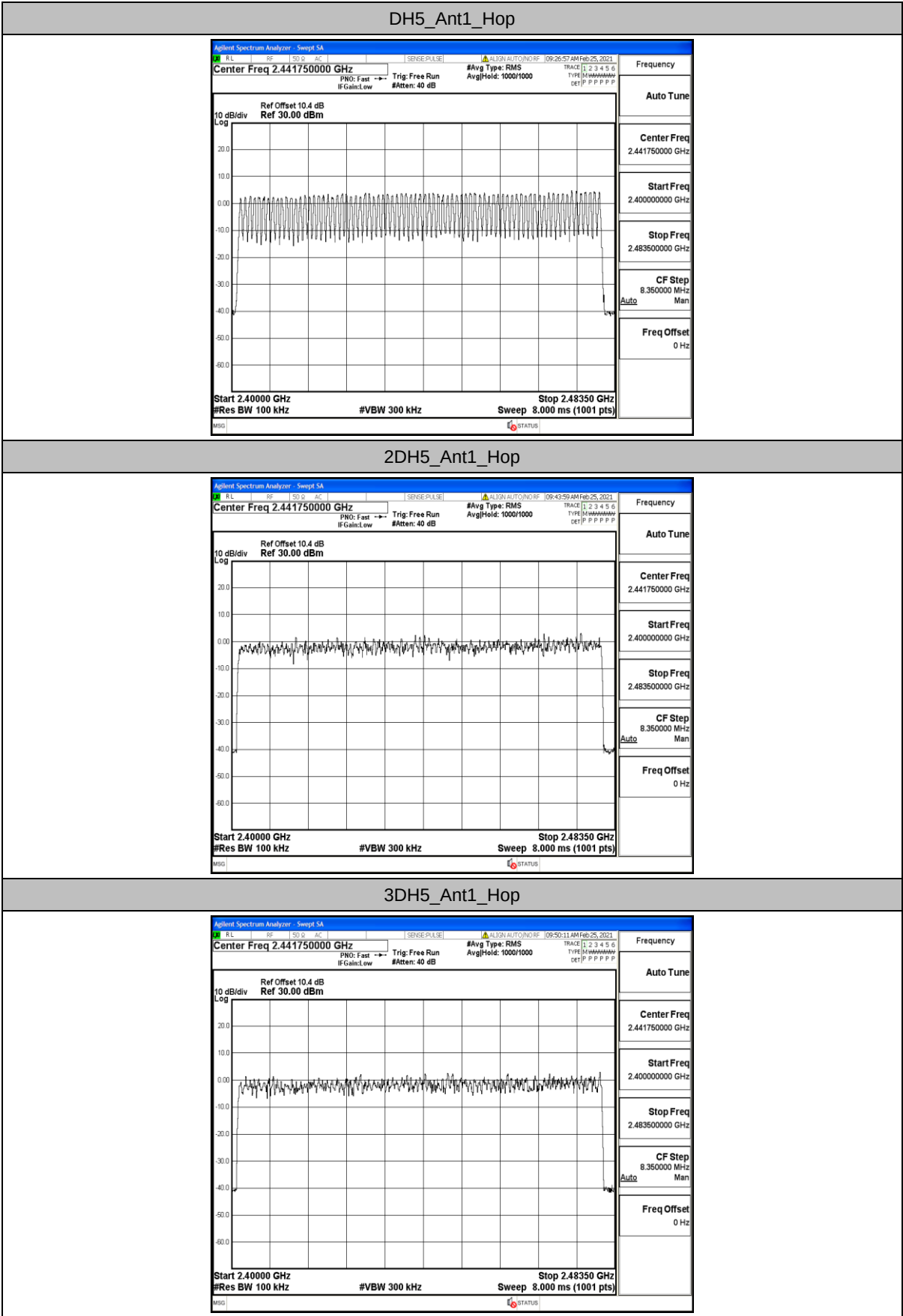


Appendix E: Number of hopping channels

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



Appendix F: Band edge measurements

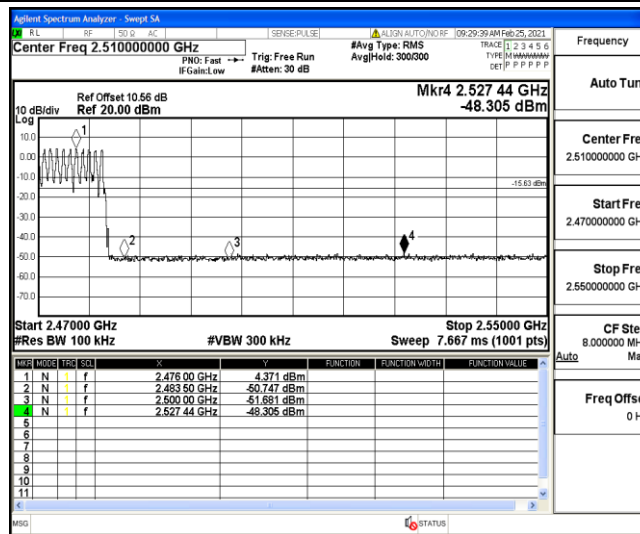
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.88	-48.58	<=-17.12	PASS
		High	2480	5.42	-47.36	<=-14.58	PASS
		Low	Hop_2402	2.23	-48.81	<=-17.77	PASS
		High	Hop_2480	4.37	-48.31	<=-15.63	PASS
2DH5	Ant1	Low	2402	0.85	-49.28	<=-19.15	PASS
		High	2480	3.55	-48.29	<=-16.45	PASS
		Low	Hop_2402	0.22	-48.93	<=-19.78	PASS
		High	Hop_2480	2.30	-48.2	<=-17.7	PASS
3DH5	Ant1	Low	2402	1.43	-48.7	<=-18.57	PASS
		High	2480	2.05	-48.21	<=-17.95	PASS
		Low	Hop_2402	-0.25	-49.33	<=-20.25	PASS
		High	Hop_2480	2.33	-47.95	<=-17.67	PASS

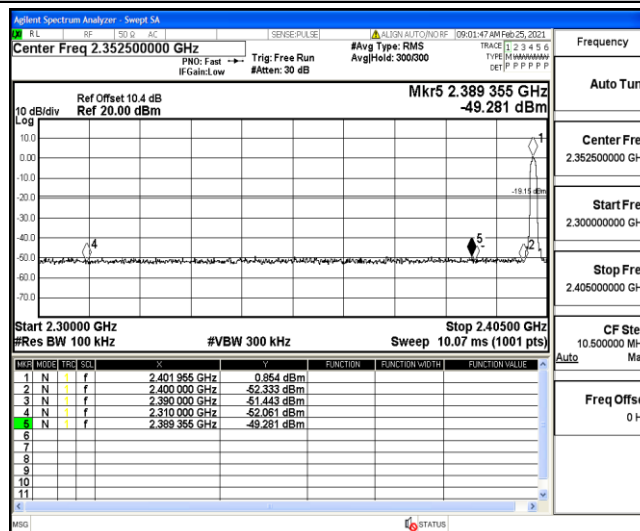
Test Graphs



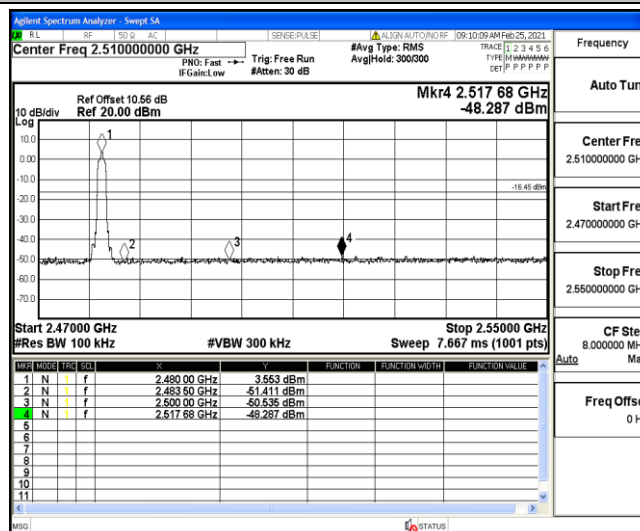
DH5_Ant1_High_Hop_2480



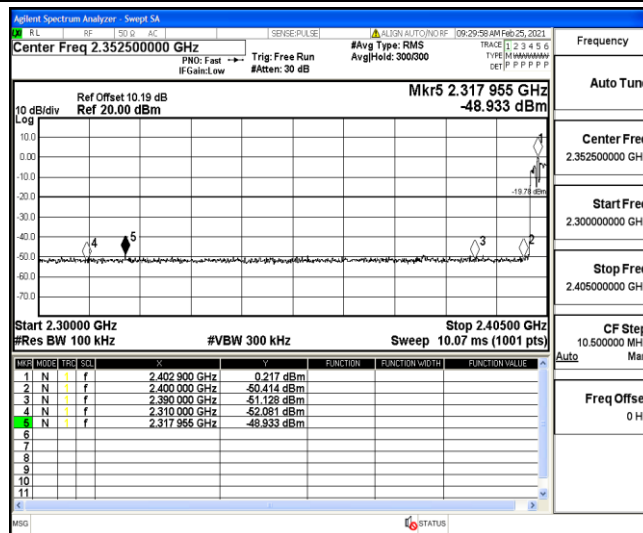
2DH5_Ant1_Low_2402



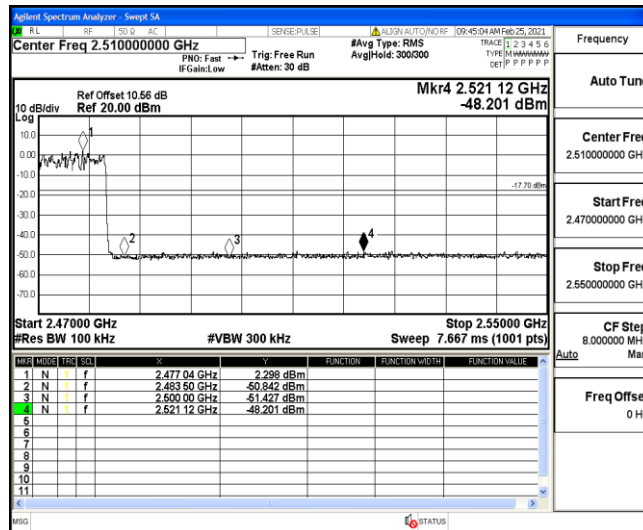
2DH5_Ant1_High_2480



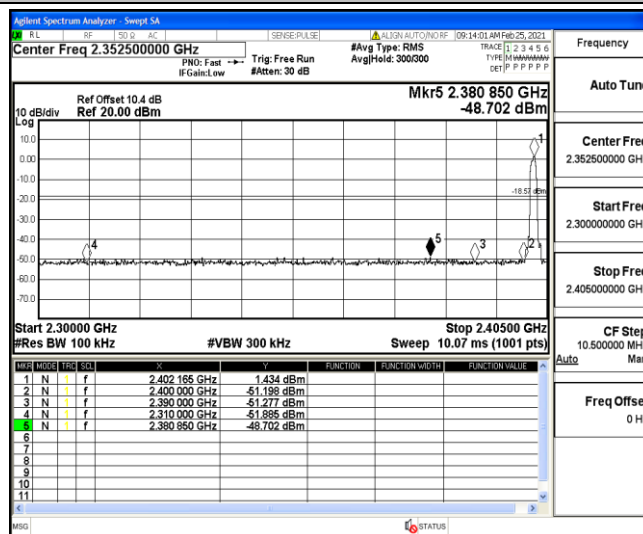
2DH5_Ant1_Low_Hop_2402



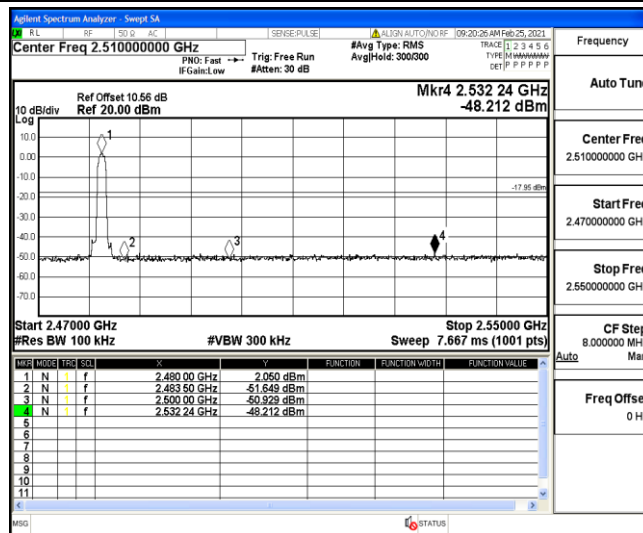
2DH5_Ant1_High_Hop_2480



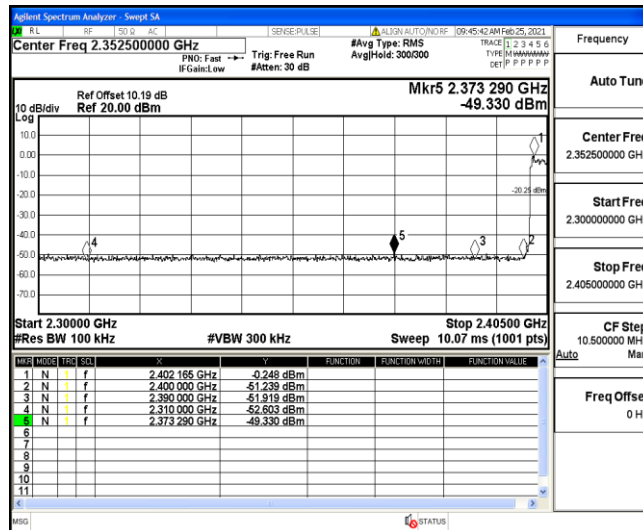
3DH5_Ant1_Low_2402



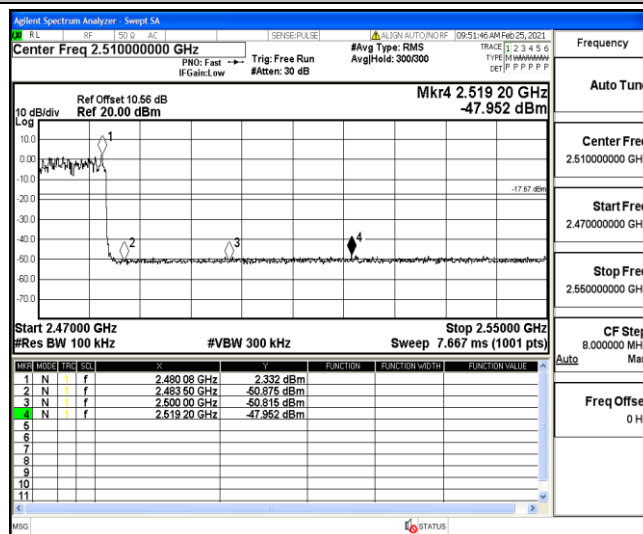
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

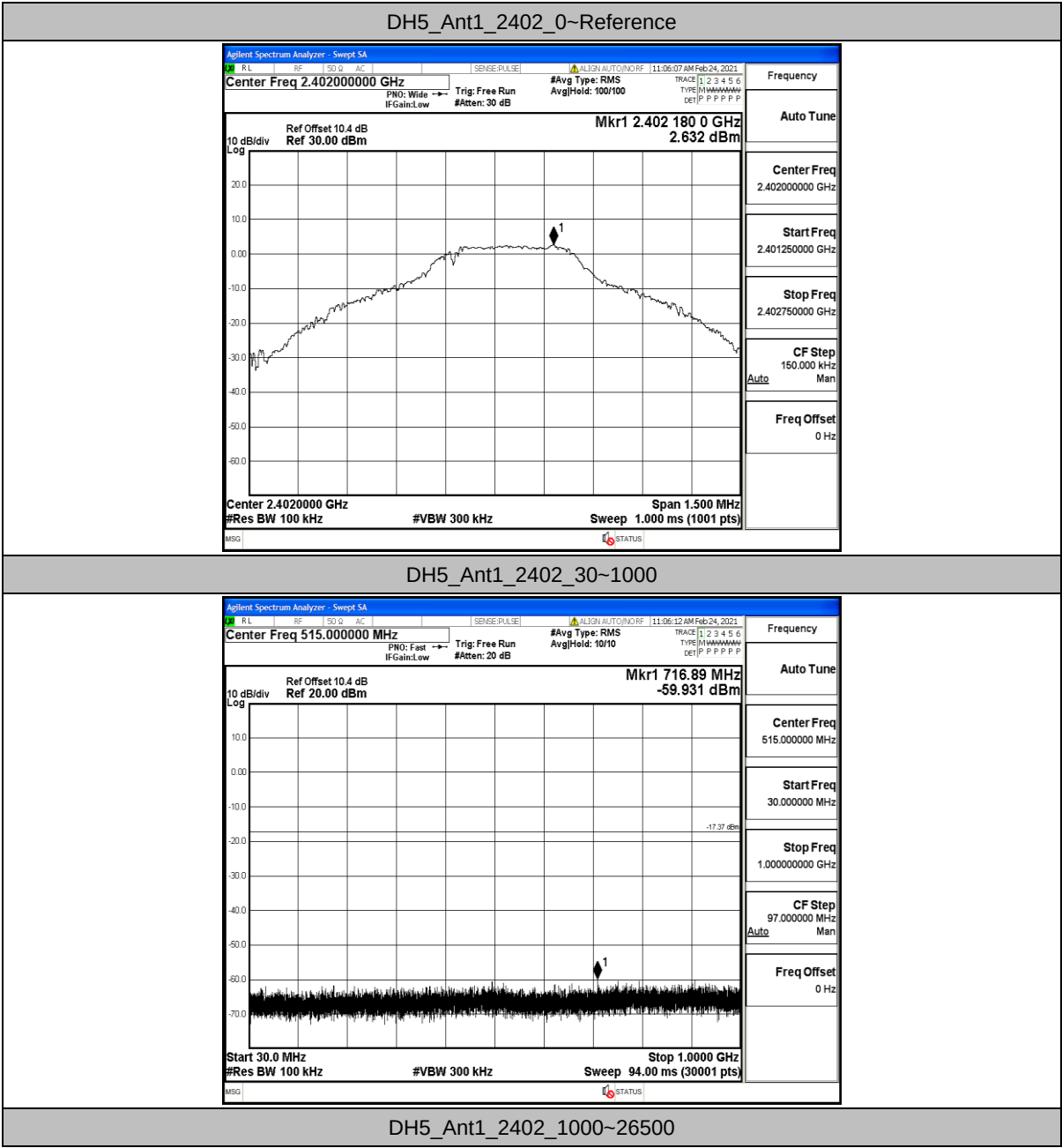


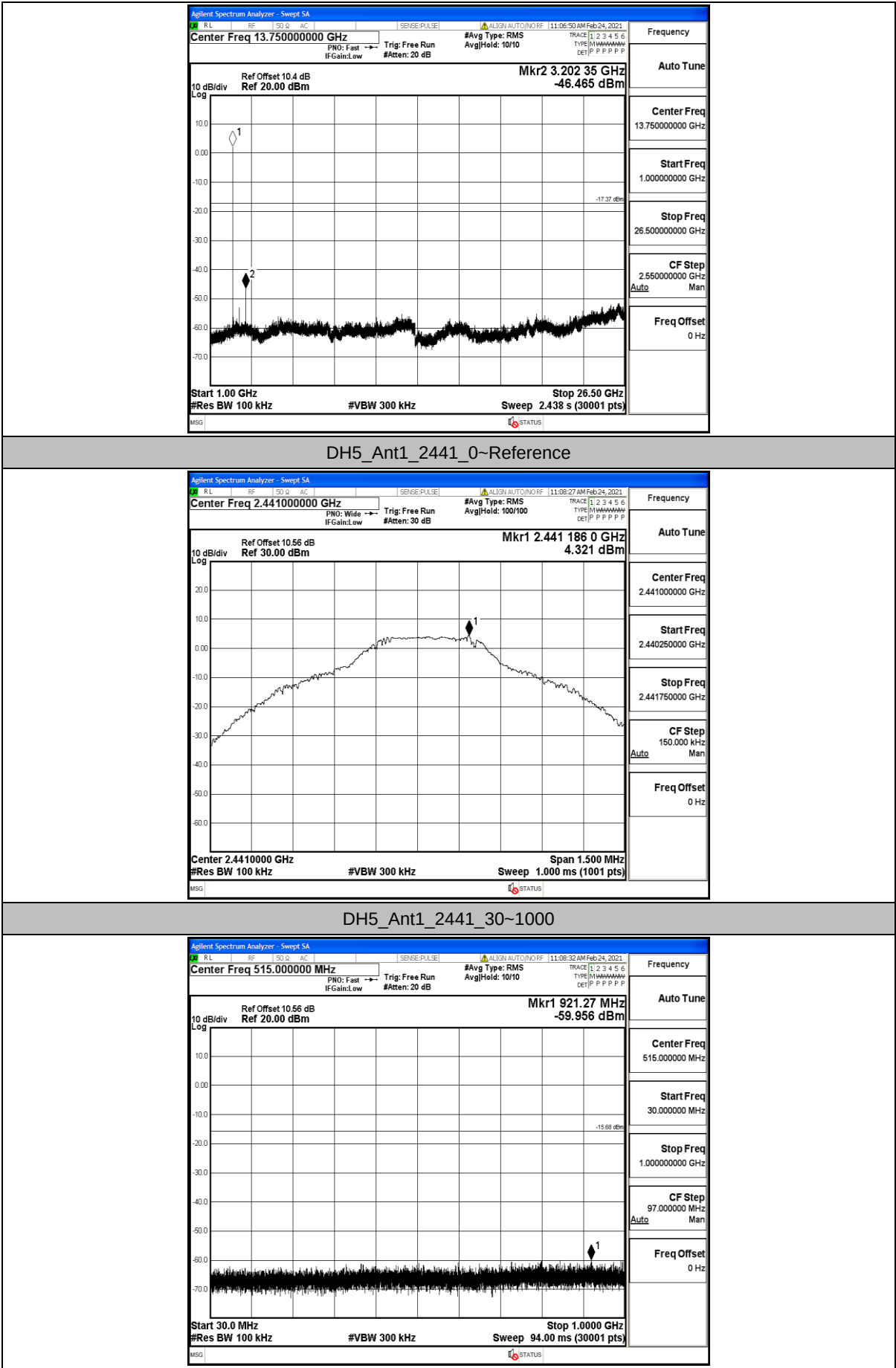
Appendix G: Conducted Spurious Emission

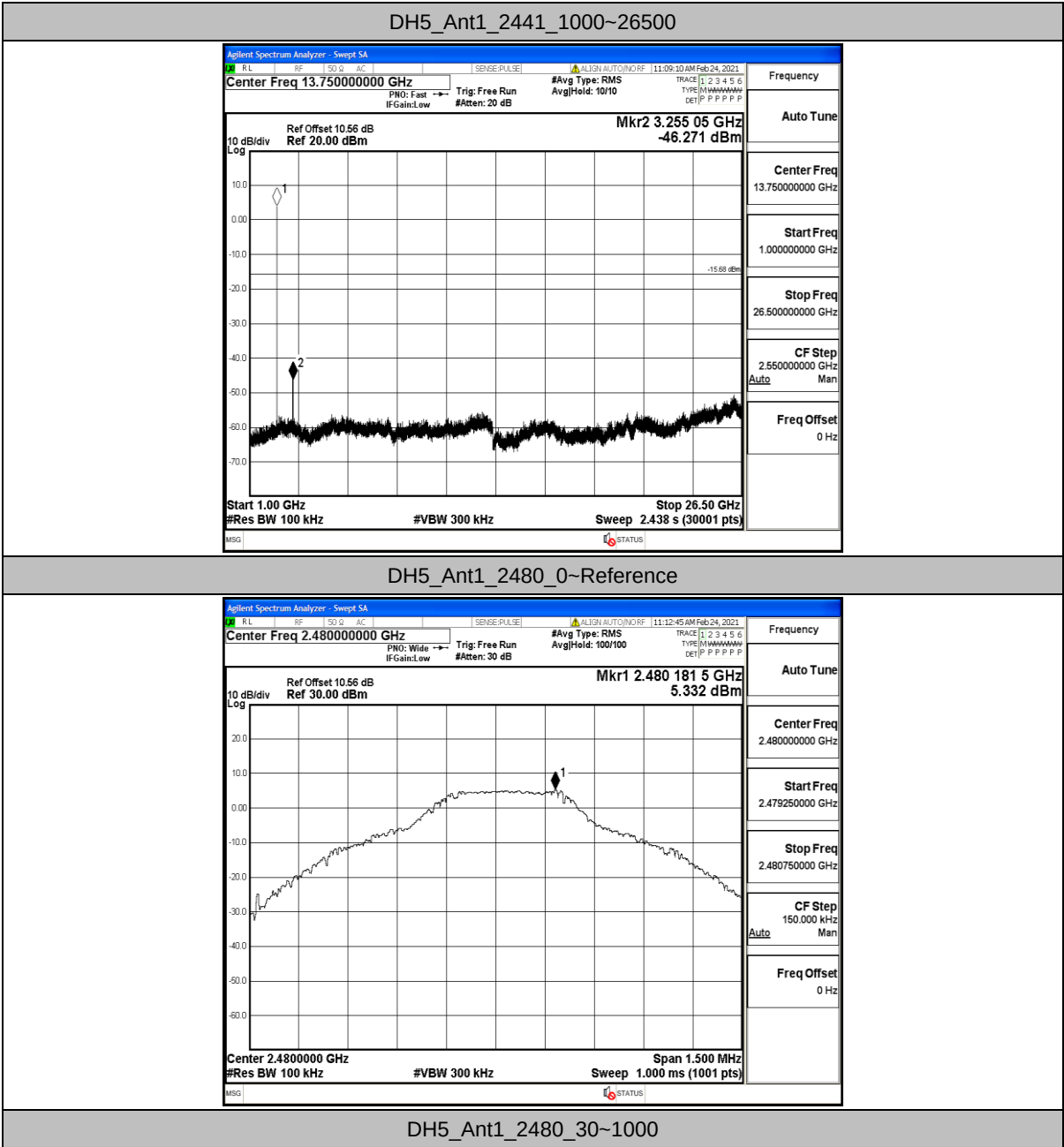
Test Result

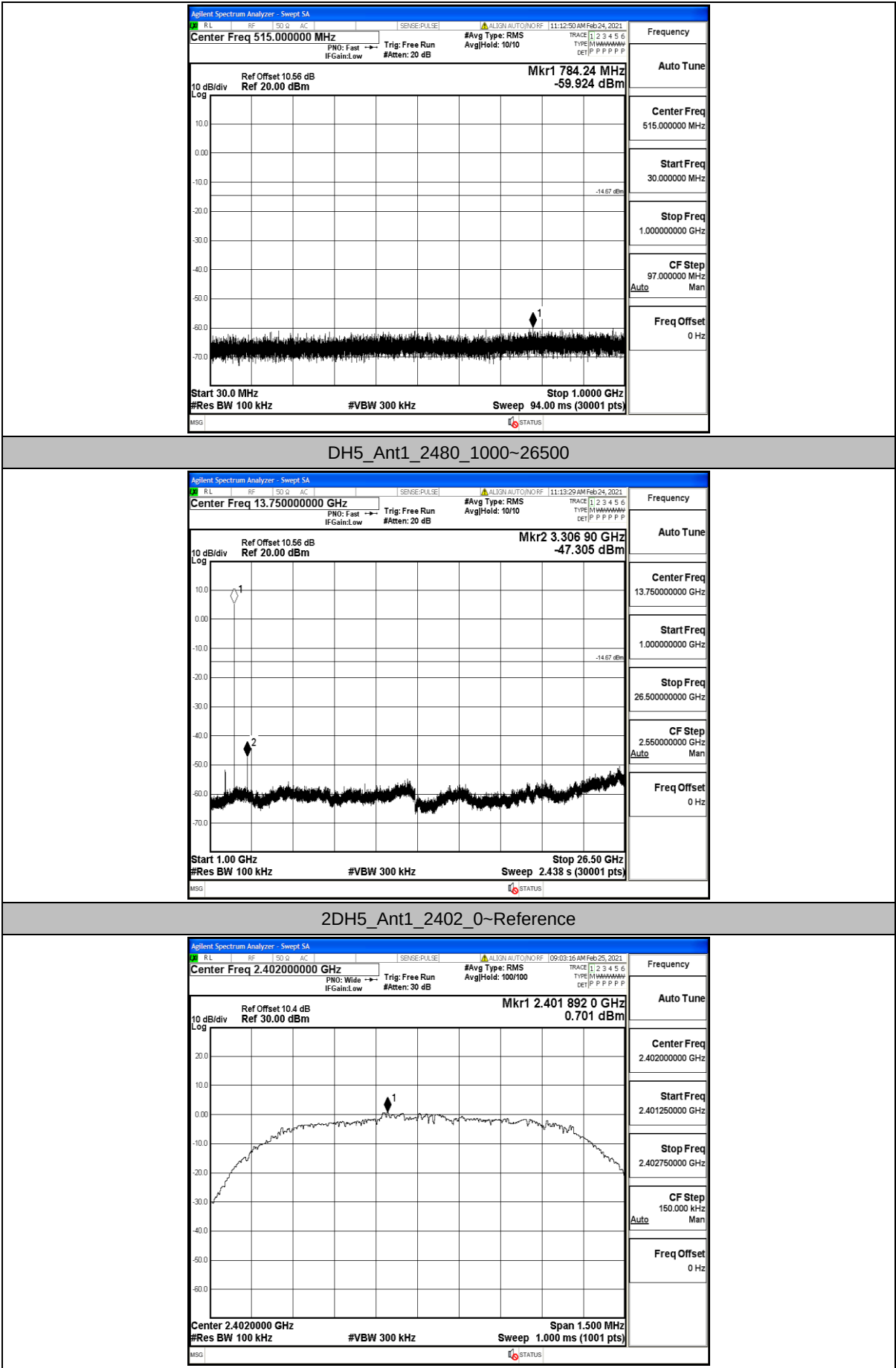
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.63	2.63	---	PASS
			30~1000	2.63	-59.93	<=-17.37	PASS
			1000~26500	2.63	-46.47	<=-17.37	PASS
		2441	Reference	4.32	4.32	---	PASS
			30~1000	4.32	-59.96	<=-15.68	PASS
			1000~26500	4.32	-46.27	<=-15.68	PASS
		2480	Reference	5.33	5.33	---	PASS
			30~1000	5.33	-59.92	<=-14.67	PASS
			1000~26500	5.33	-47.31	<=-14.67	PASS
2DH5	Ant1	2402	Reference	0.70	0.70	---	PASS
			30~1000	0.70	-33.27	<=-19.3	PASS
			1000~26500	0.70	-37.73	<=-19.3	PASS
		2441	Reference	2.51	2.51	---	PASS
			30~1000	2.51	-60.62	<=-17.49	PASS
			1000~26500	2.51	-39.49	<=-17.49	PASS
		2480	Reference	3.26	3.26	---	PASS
			30~1000	3.26	-59.57	<=-16.75	PASS
			1000~26500	3.26	-41.47	<=-16.75	PASS
3DH5	Ant1	2402	Reference	1.36	1.36	---	PASS
			30~1000	1.36	-59.89	<=-18.64	PASS
			1000~26500	1.36	-37.7	<=-18.64	PASS
		2441	Reference	2.43	2.43	---	PASS
			30~1000	2.43	-59.93	<=-17.57	PASS
			1000~26500	2.43	-39.26	<=-17.57	PASS
		2480	Reference	3.11	3.11	---	PASS
			30~1000	3.11	-60.22	<=-16.89	PASS
			1000~26500	3.11	-41.46	<=-16.89	PASS

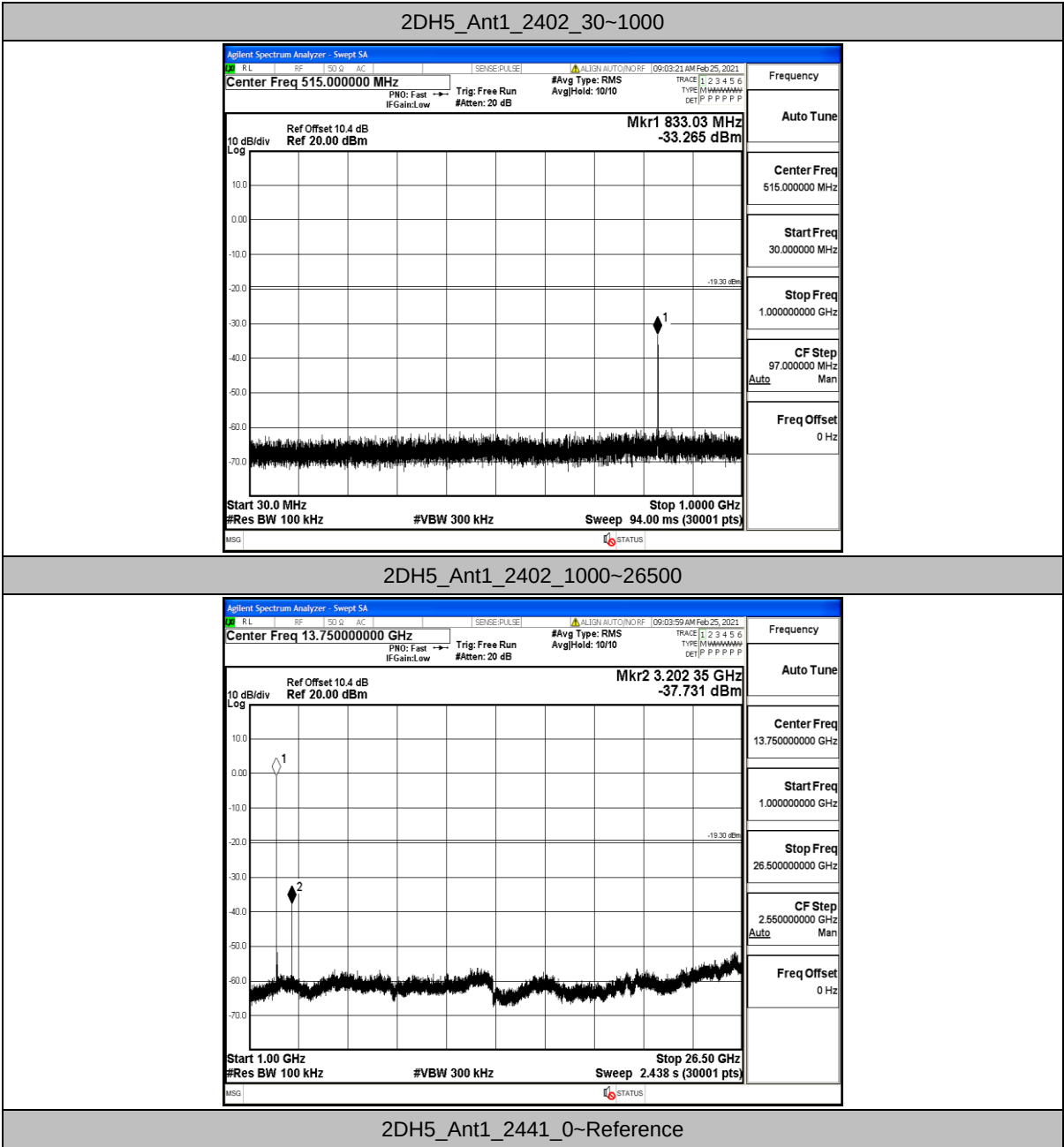
Test Graphs

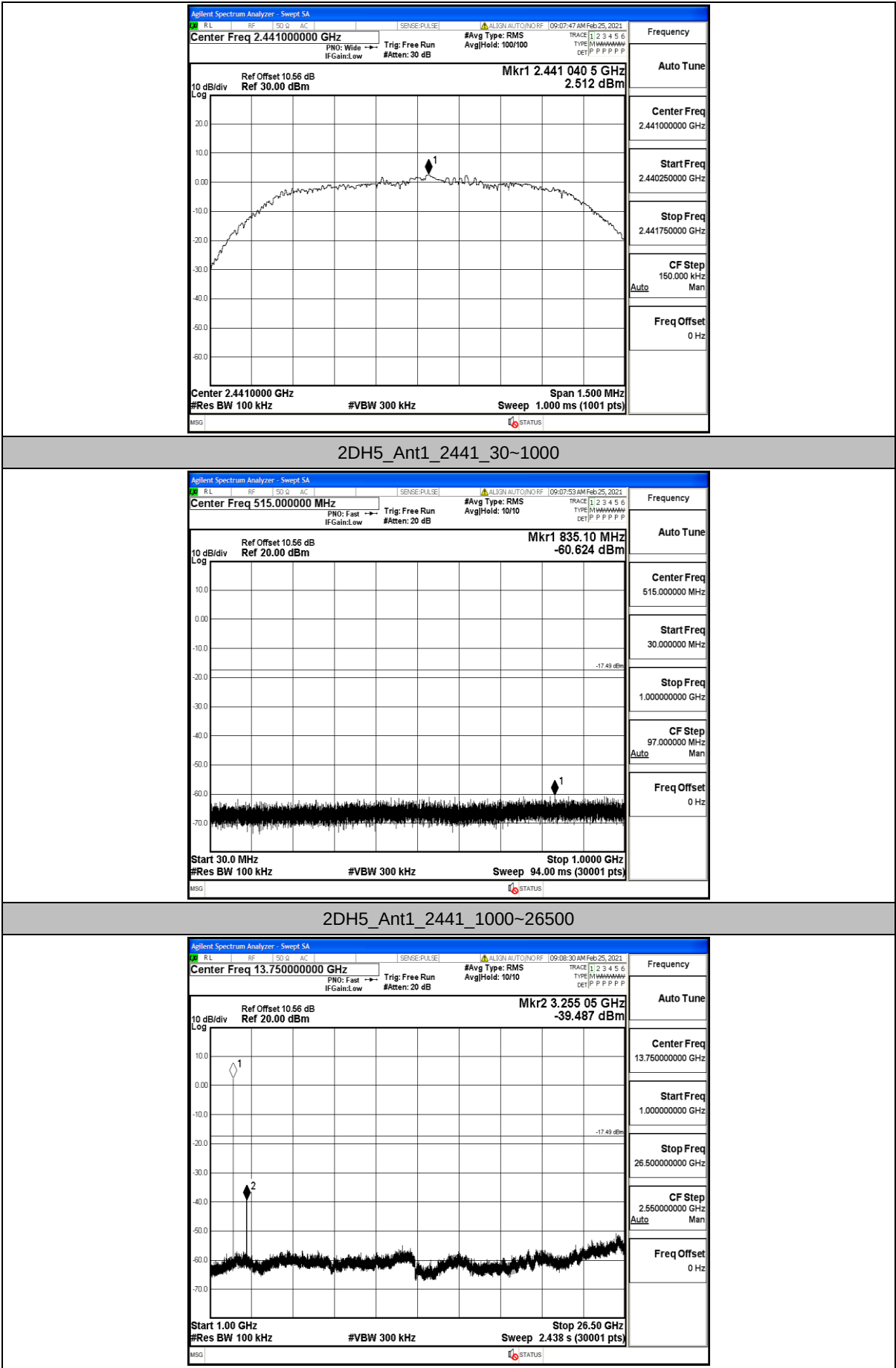


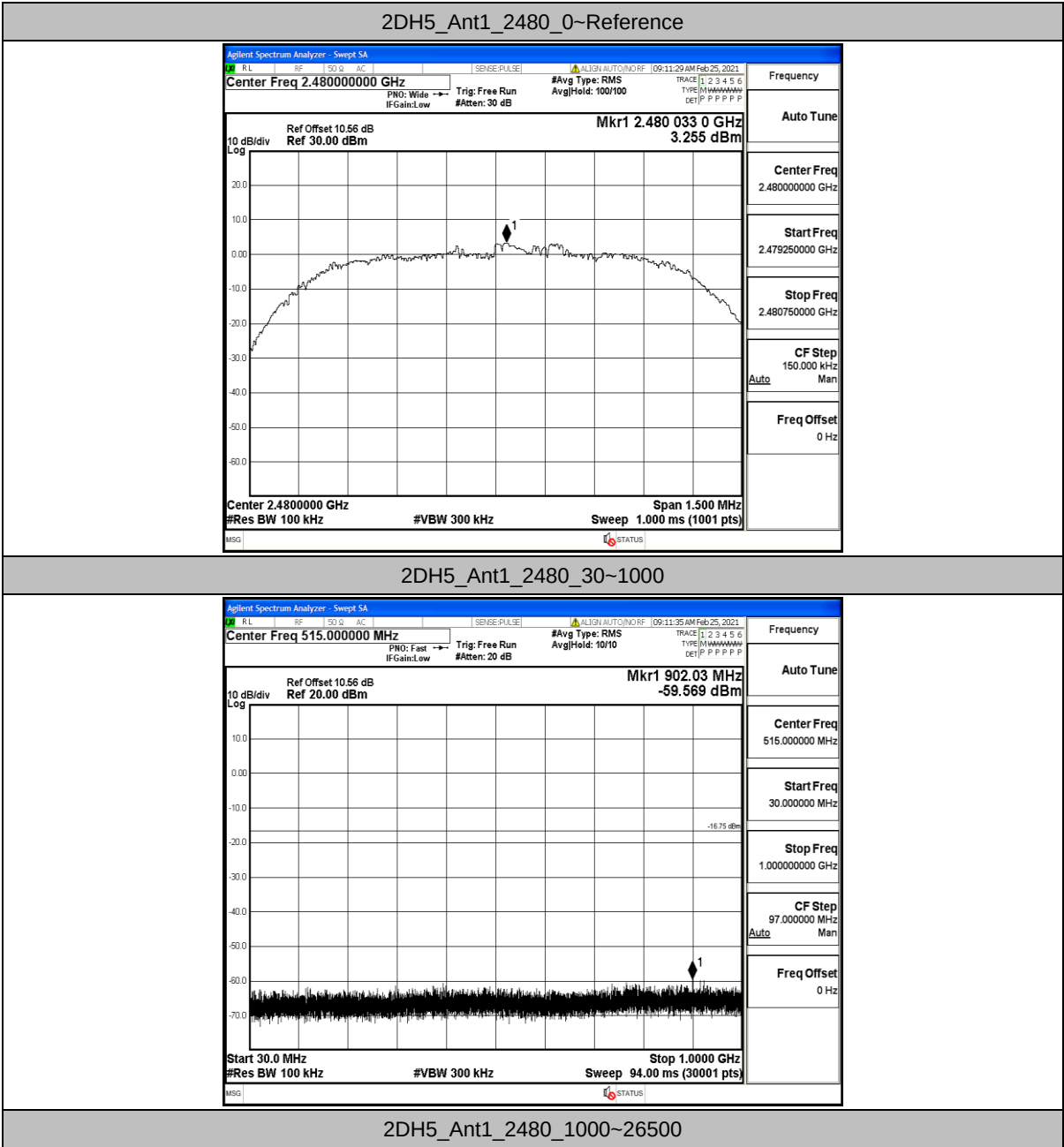


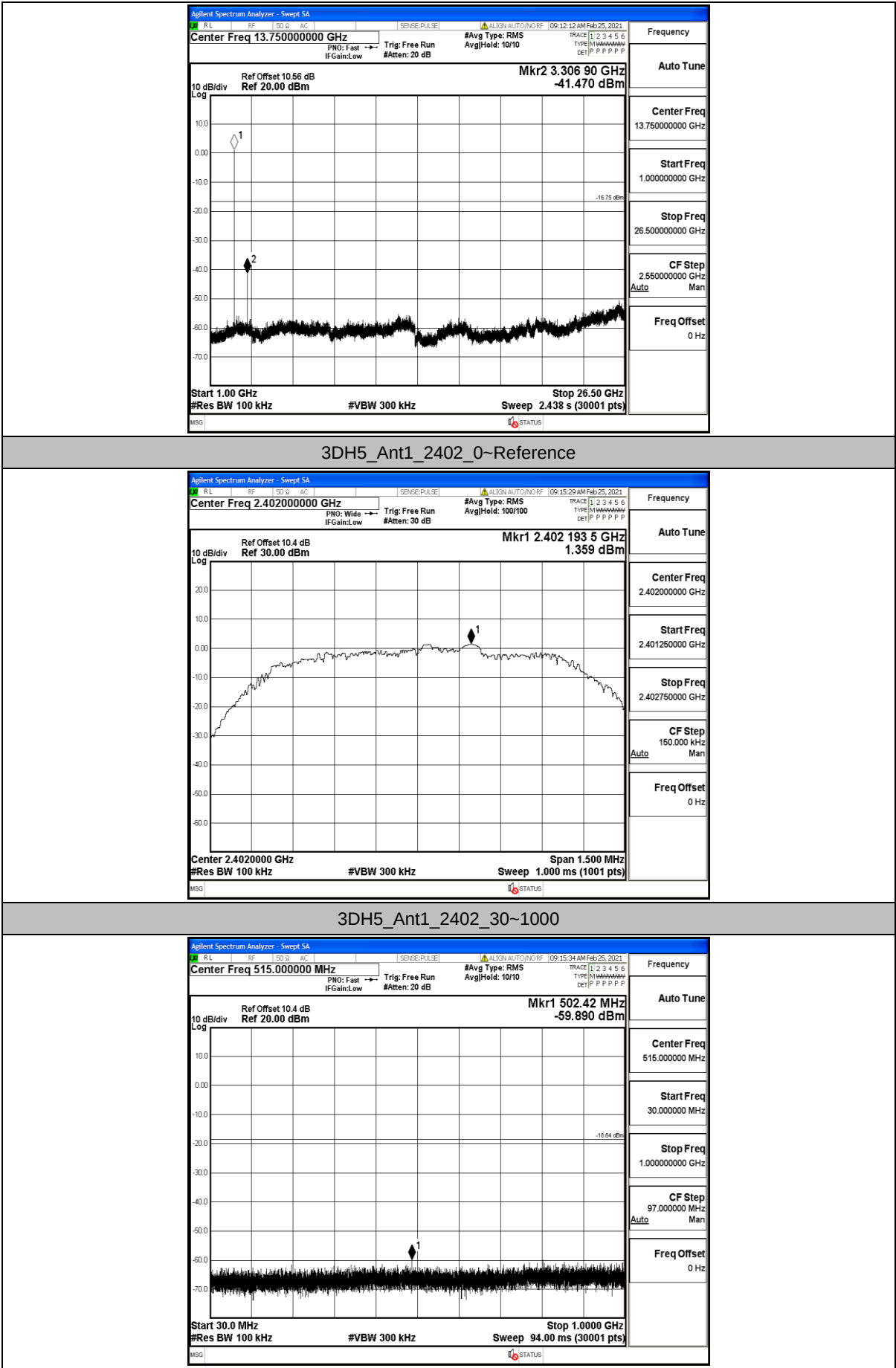




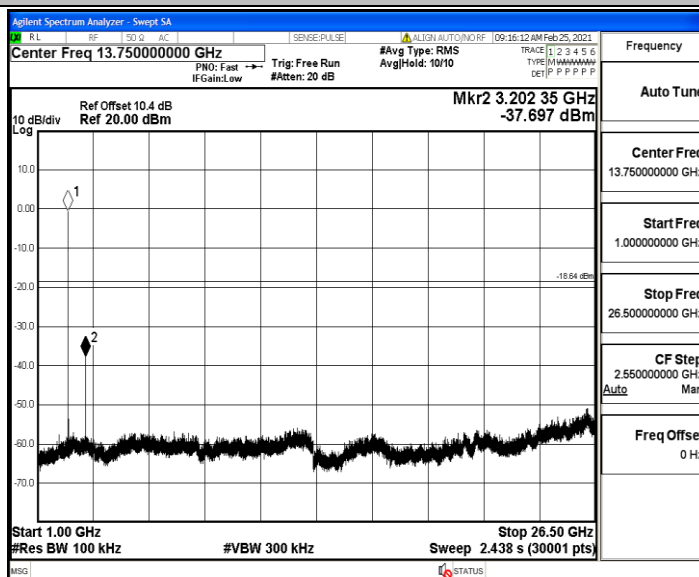




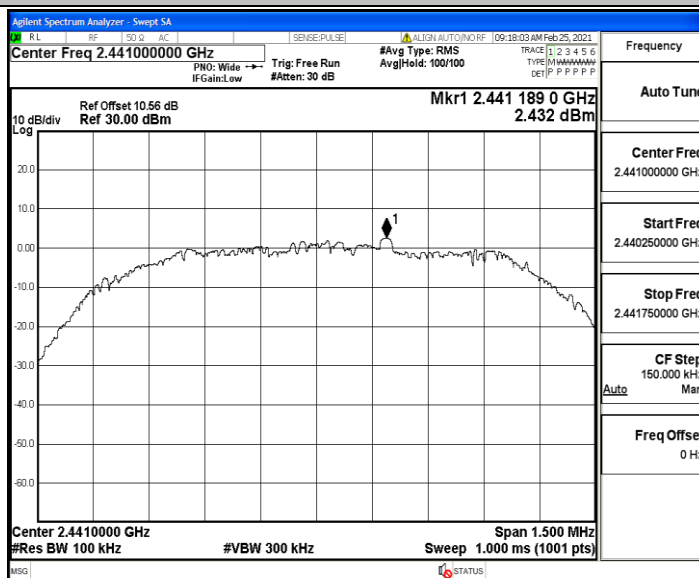




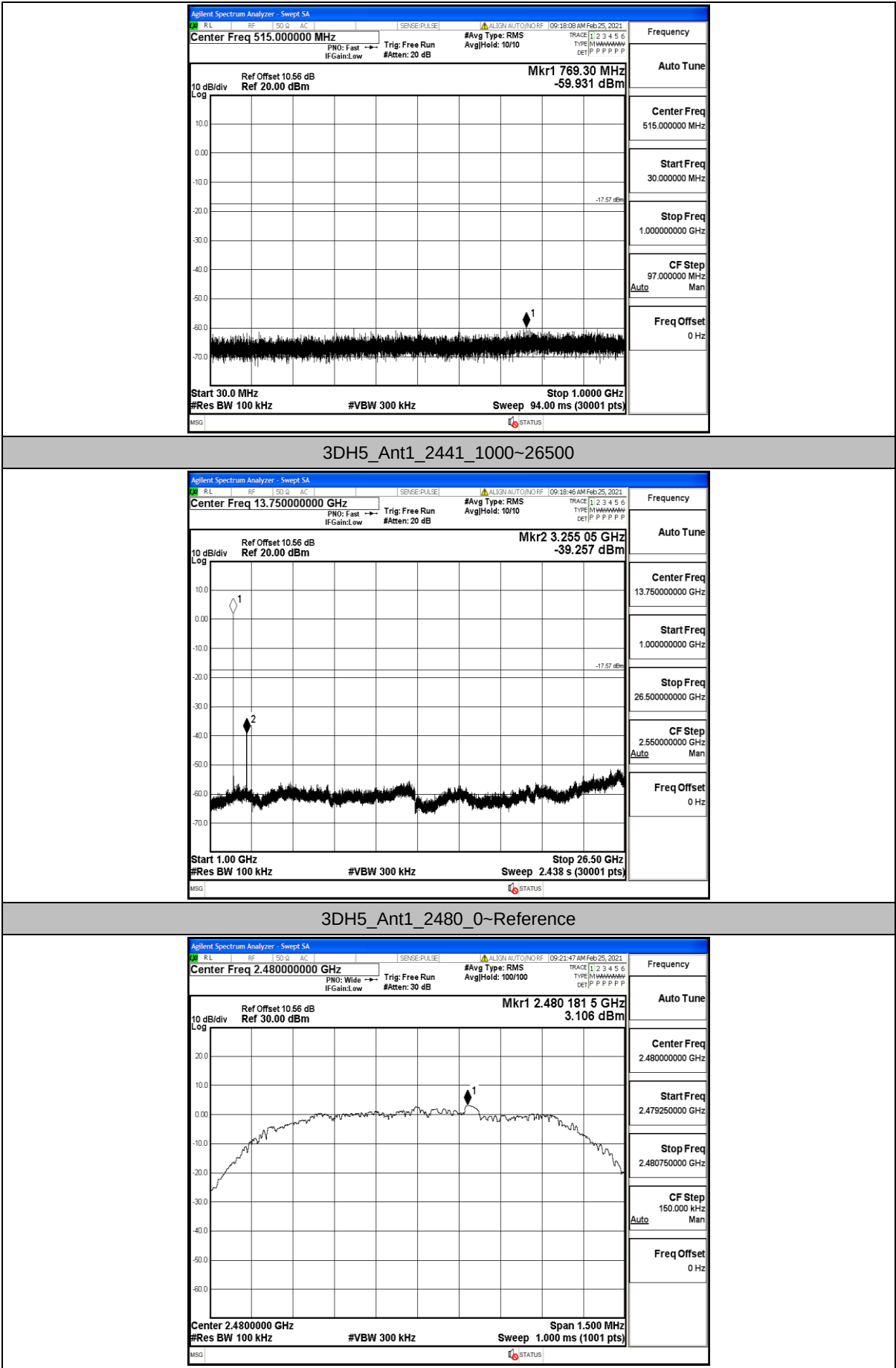
3DH5_Ant1_2402_1000~26500



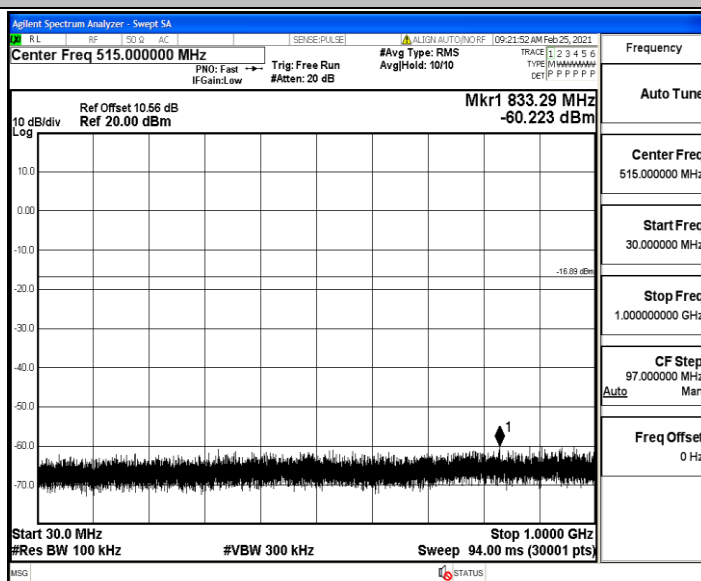
3DH5_Ant1_2441_0~Reference



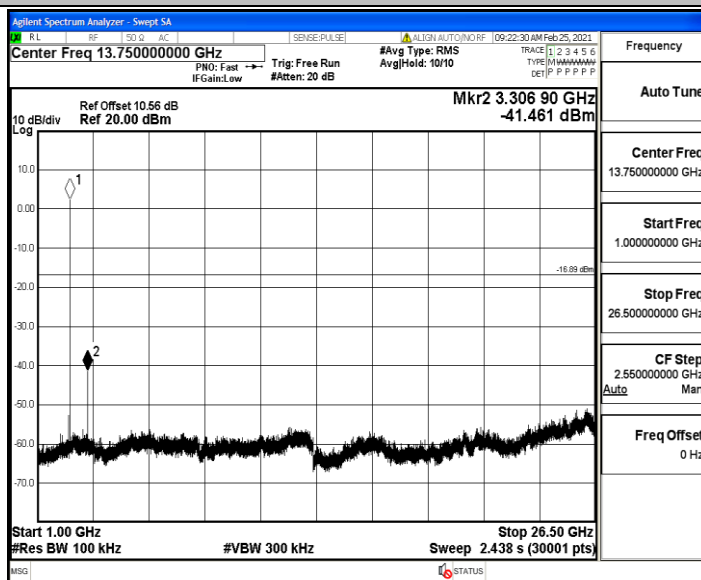
3DH5_Ant1_2441_30~1000



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



Appendix H: Emissions in Restricted Bands

Test Result

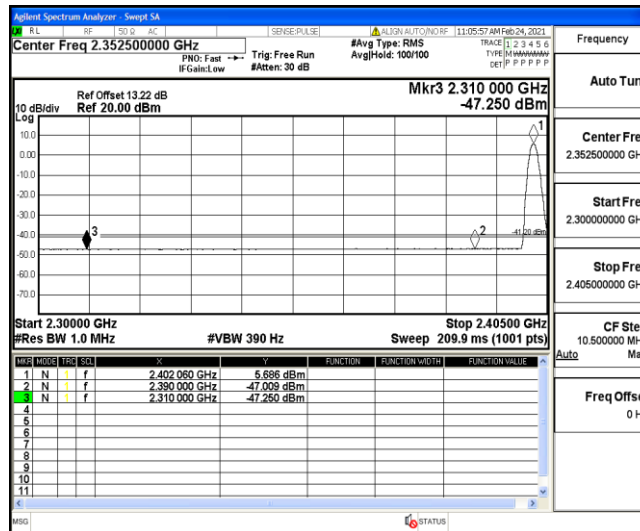
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-47.25	<=-41.20	PASS
				AV	2390.000	-47.01	<=-41.20	PASS
				Peak	2310.000	-39.37	<=-21.20	PASS
				Peak	2390.000	-39.7	<=-21.20	PASS
		High	2480	AV	2483.500	-45.73	<=-41.20	PASS
				AV	2500.000	-46.34	<=-41.20	PASS
				Peak	2483.500	-39.75	<=-21.20	PASS
				Peak	2500.000	-38.26	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-47.42	<=-41.20	PASS
				AV	2390.000	-47.1	<=-41.20	PASS
				Peak	2310.000	-39.98	<=-21.20	PASS
				Peak	2390.000	-40.3	<=-21.20	PASS
		High	2480	AV	2483.500	-45.47	<=-41.20	PASS
				AV	2500.000	-46.36	<=-41.20	PASS
				Peak	2483.500	-38.76	<=-21.20	PASS
				Peak	2500.000	-38.29	<=-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-47.31	<=-41.20	PASS
				AV	2390.000	-46.99	<=-41.20	PASS
				Peak	2310.000	-38.36	<=-21.20	PASS
				Peak	2390.000	-39.57	<=-21.20	PASS
		High	2480	AV	2483.500	-45.4	<=-41.20	PASS
				AV	2500.000	-46.29	<=-41.20	PASS
				Peak	2483.500	-39.17	<=-21.20	PASS
				Peak	2500.000	-39.6	<=-21.20	PASS

Note:

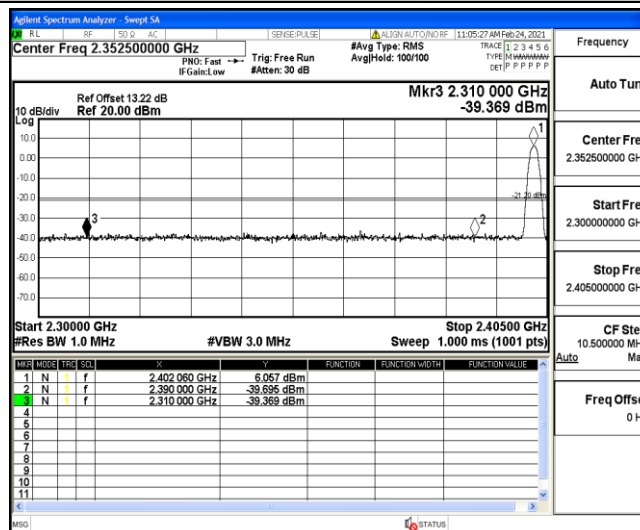
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

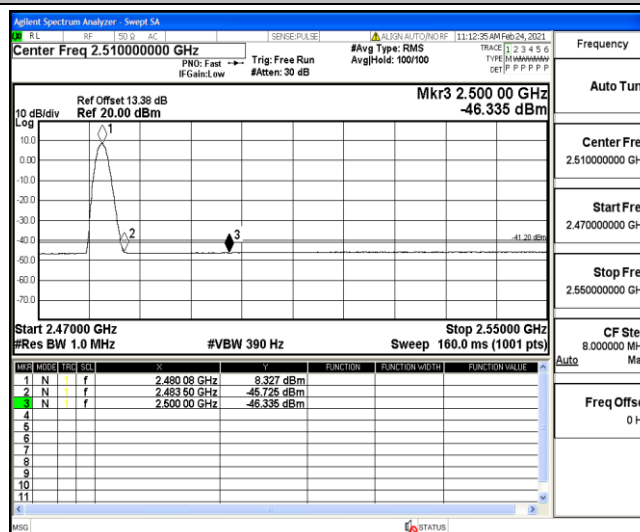
DH5_Ant1_Low_2402_AV



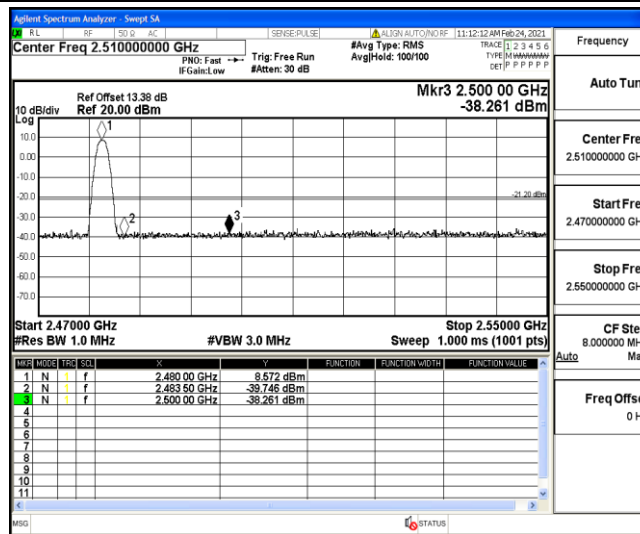
DH5_Ant1_Low_2402_Peak



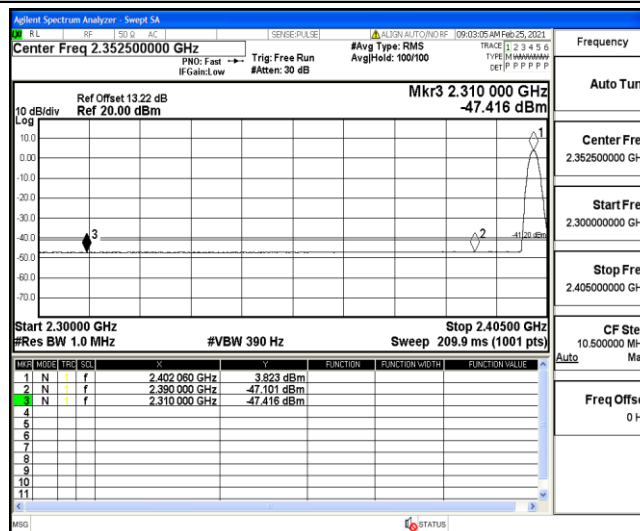
DH5_Ant1_High_2480_AV



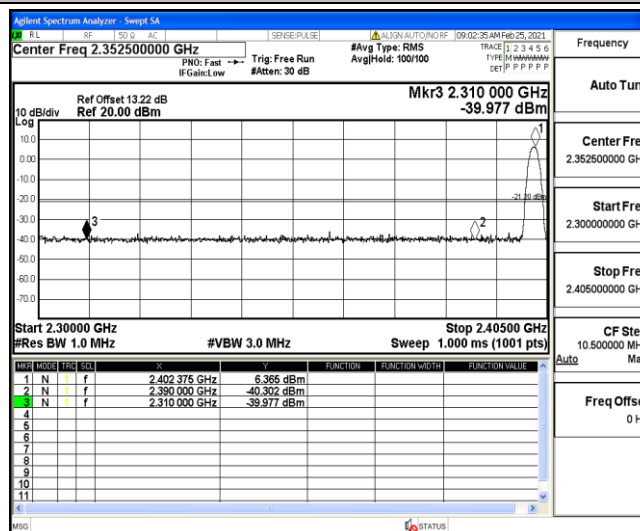
DH5_Ant1_High_2480_Peak



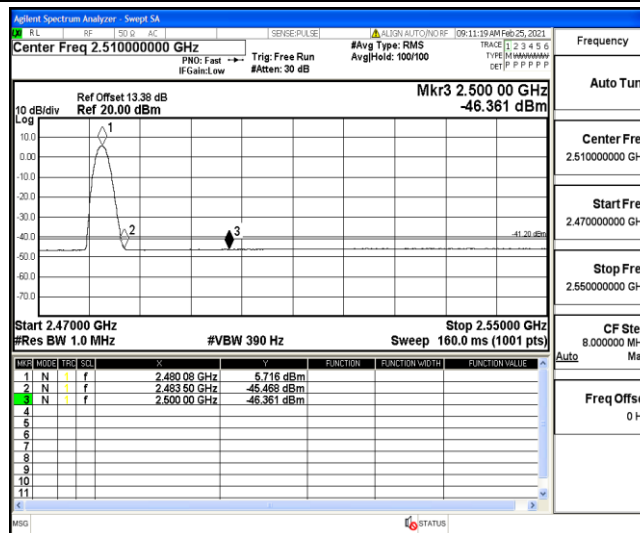
2DH5_Ant1_Low_2402_AV



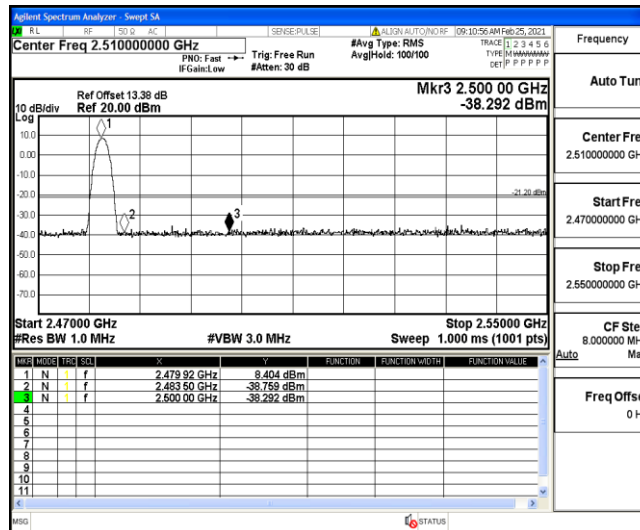
2DH5_Ant1_Low_2402_Peak



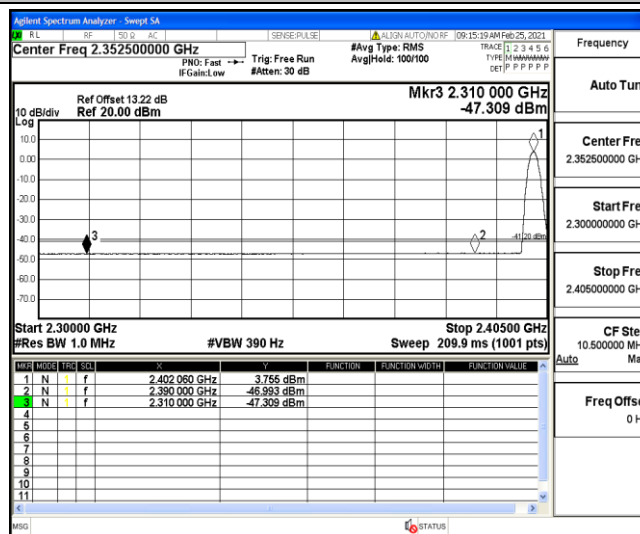
2DH5_Ant1_High_2480_AV



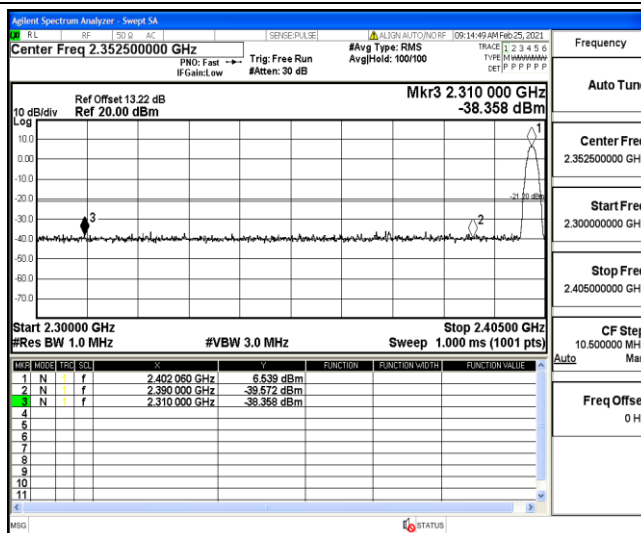
2DH5_Ant1_High_2480_Peak



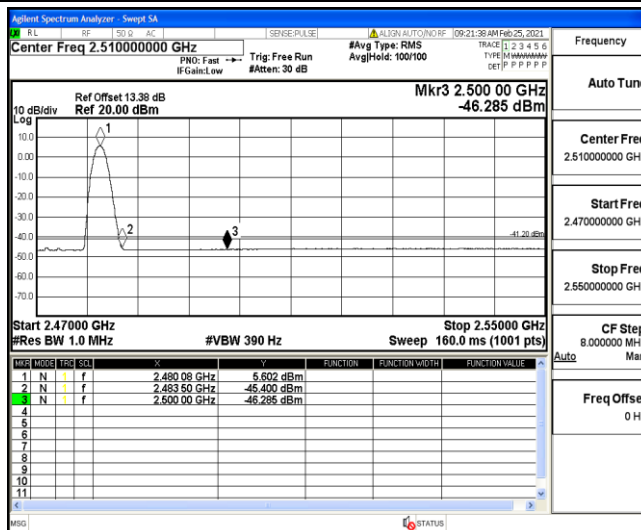
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

