

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

Product Name: Set Top Box

Trade Mark: N/A

Test Model: Claro STB SEI800CCOA-M

FCC ID: 2AOVU-SN6BHXX

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

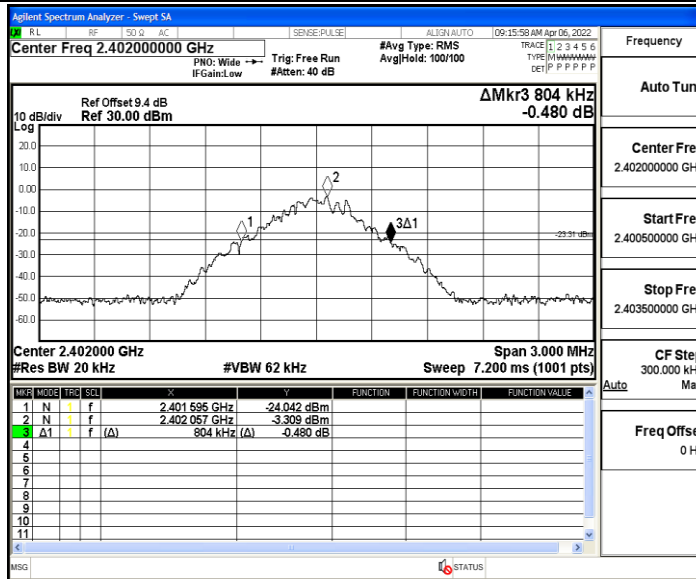
Appendix A: 20dB Emission Bandwidth

Test Result

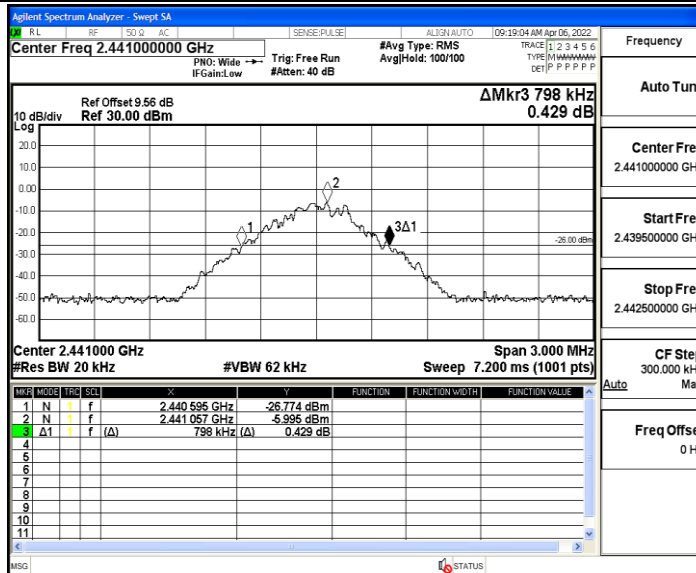
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.804	2401.595	2402.399	---	PASS
		2441	0.798	2440.595	2441.393	---	PASS
		2480	0.807	2479.595	2480.402	---	PASS
2DH5	Ant1	2402	1.260	2401.367	2402.627	---	PASS
		2441	1.230	2440.376	2441.606	---	PASS
		2480	1.290	2479.364	2480.654	---	PASS
3DH5	Ant1	2402	1.299	2401.349	2402.648	---	PASS
		2441	1.275	2440.349	2441.624	---	PASS
		2480	1.296	2479.346	2480.642	---	PASS

Test Graphs

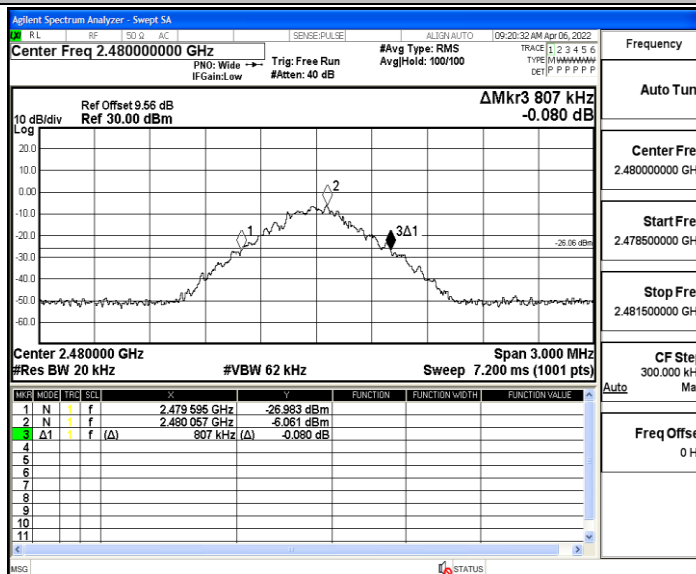
DH5_Ant1_2402



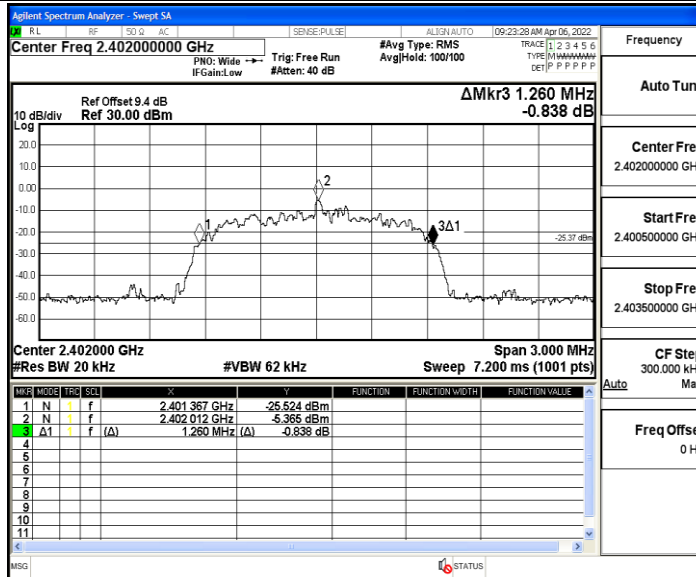
DH5_Ant1_2441



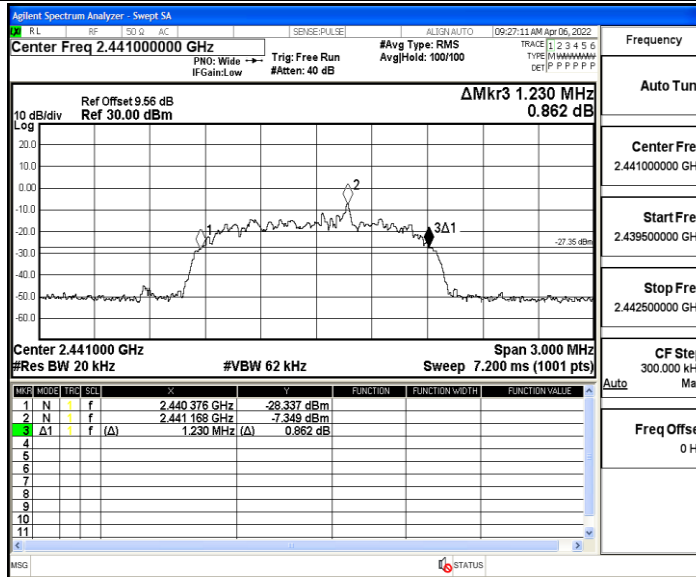
DH5_Ant1_2480



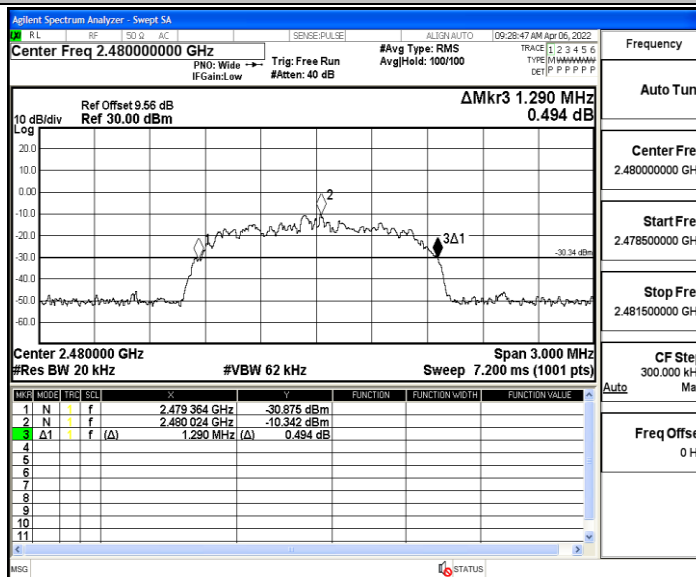
2DH5_Ant1_2402



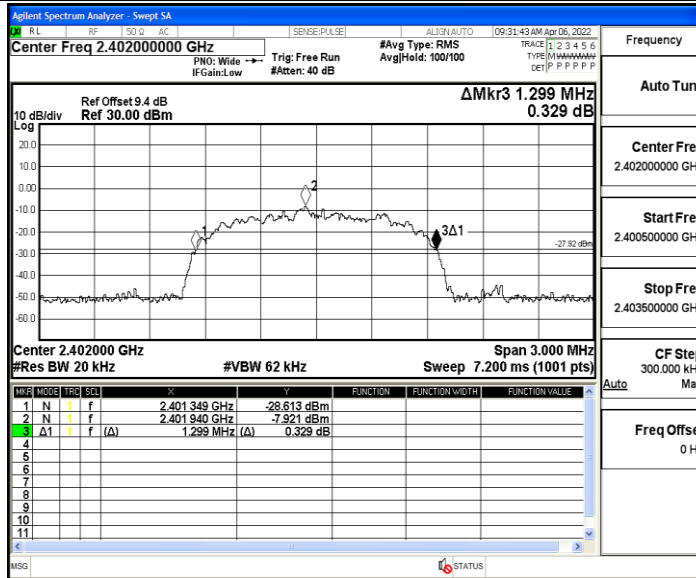
2DH5_Ant1_2441



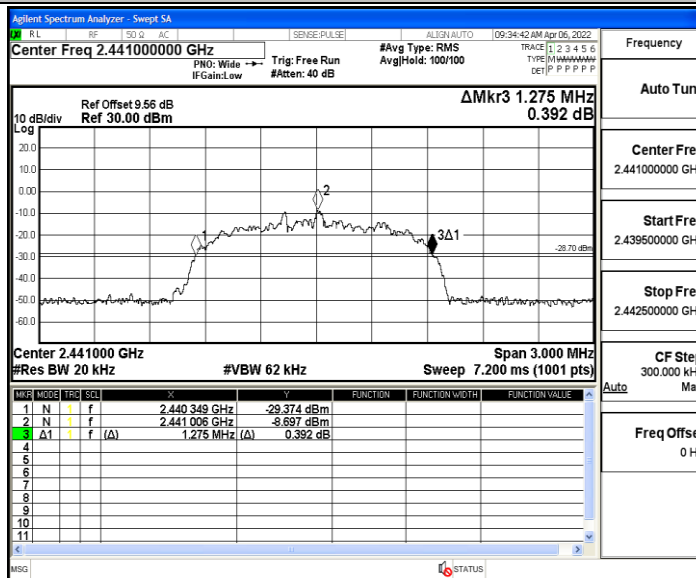
2DH5_Ant1_2480



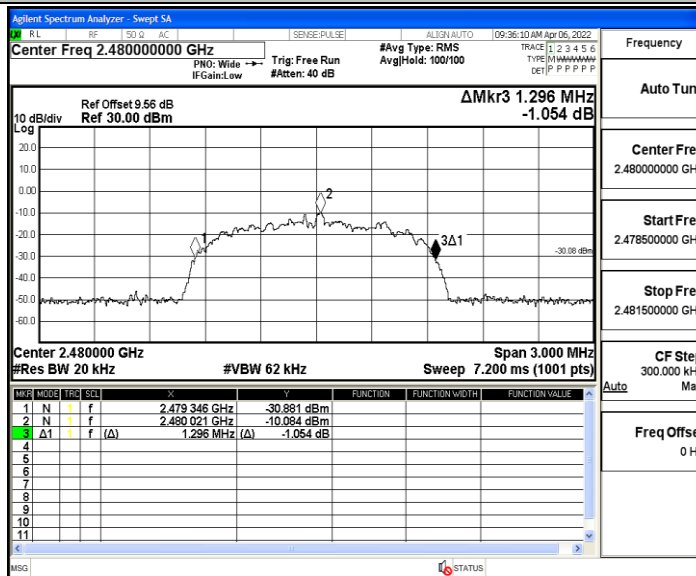
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

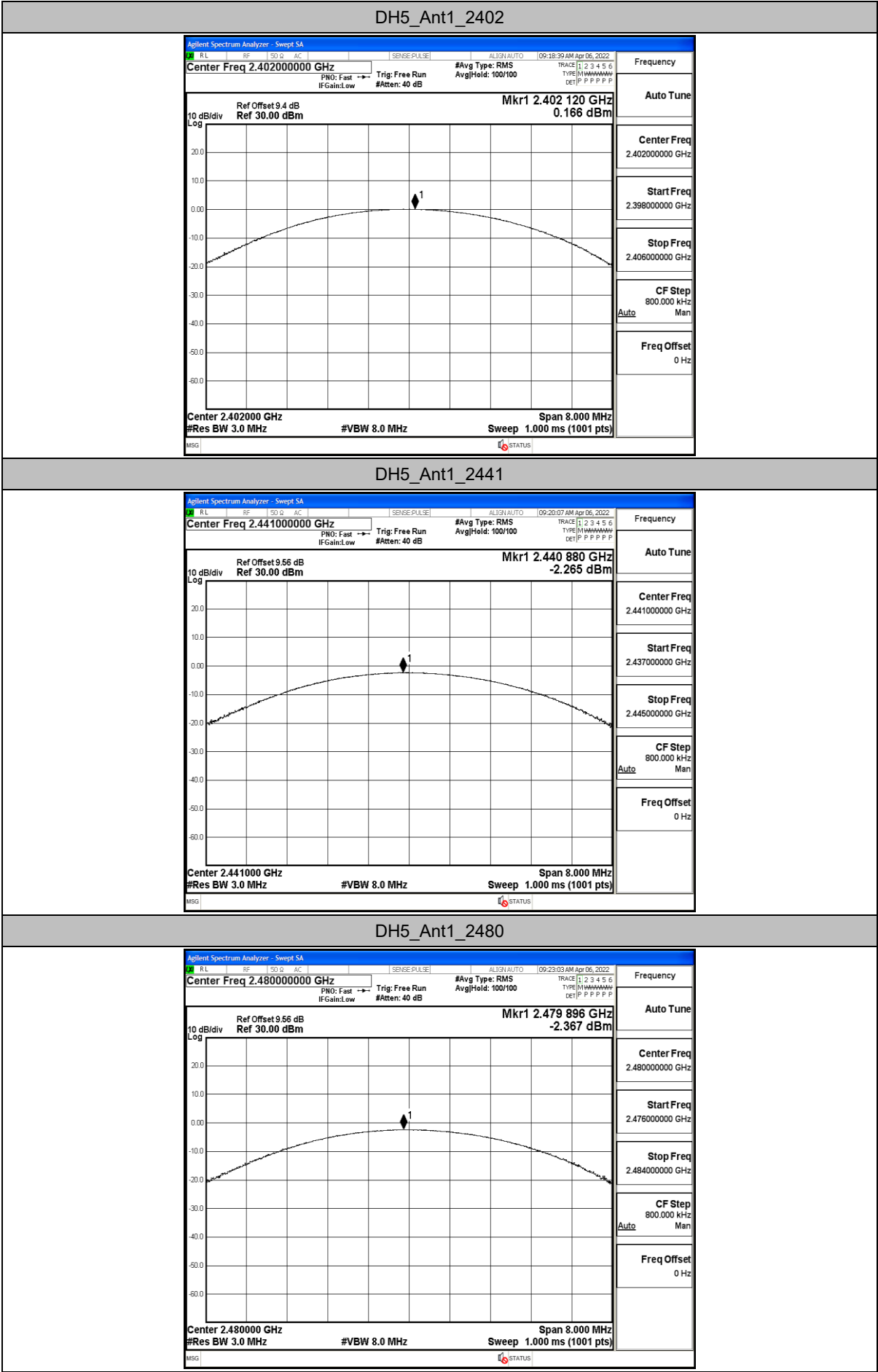


Appendix B: Maximum conducted output power

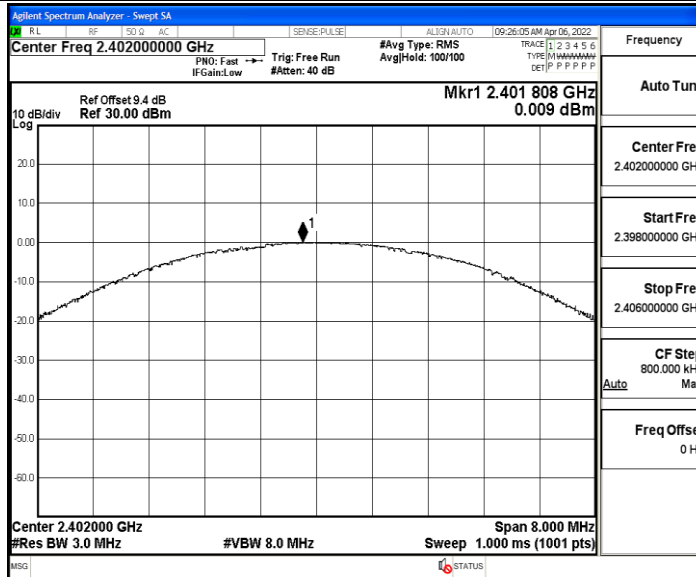
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.17	≤30.00	PASS
		2441	-2.27	≤30.00	PASS
		2480	-2.37	≤30.00	PASS
2DH5	Ant1	2402	0.01	≤20.97	PASS
		2441	-2.47	≤20.97	PASS
		2480	-2.48	≤20.97	PASS
3DH5	Ant1	2402	0.05	≤20.97	PASS
		2441	-2.19	≤20.97	PASS
		2480	-2.55	≤20.97	PASS

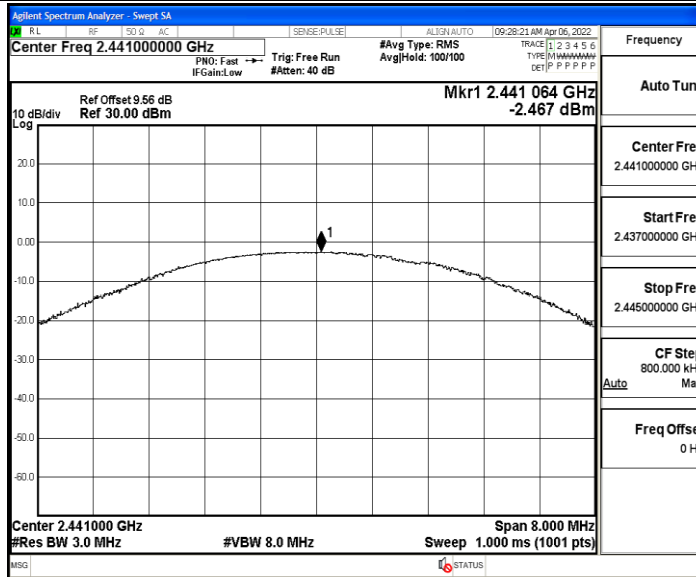
Test Graphs



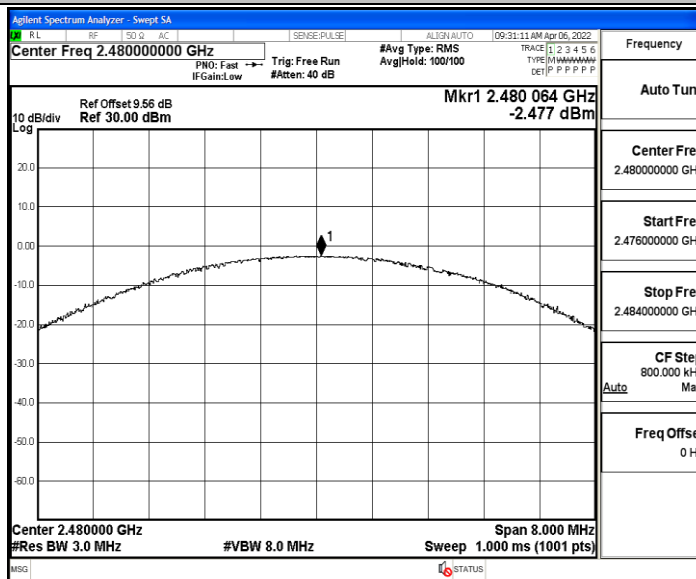
2DH5_Ant1_2402



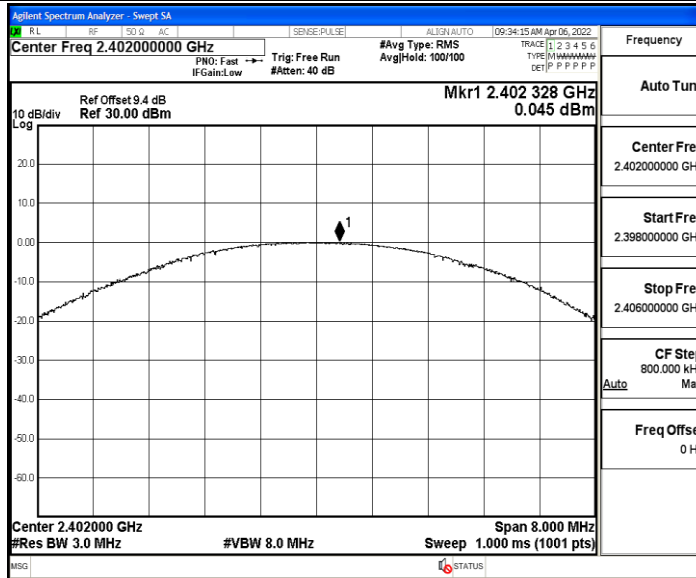
2DH5_Ant1_2441



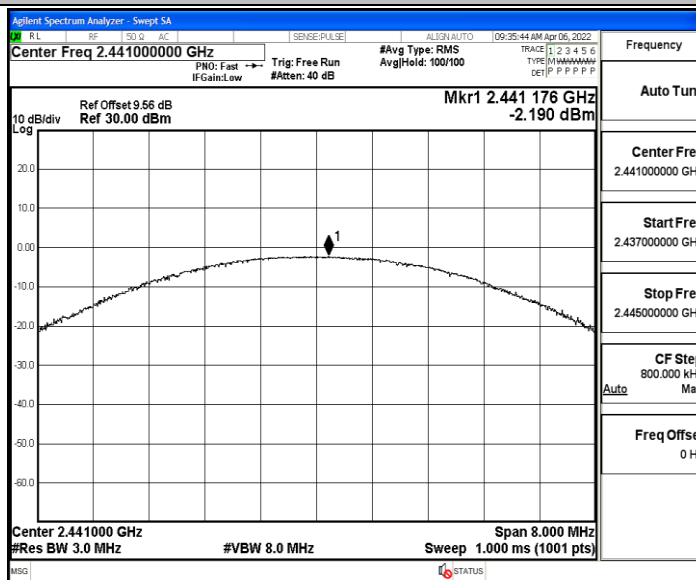
2DH5_Ant1_2480



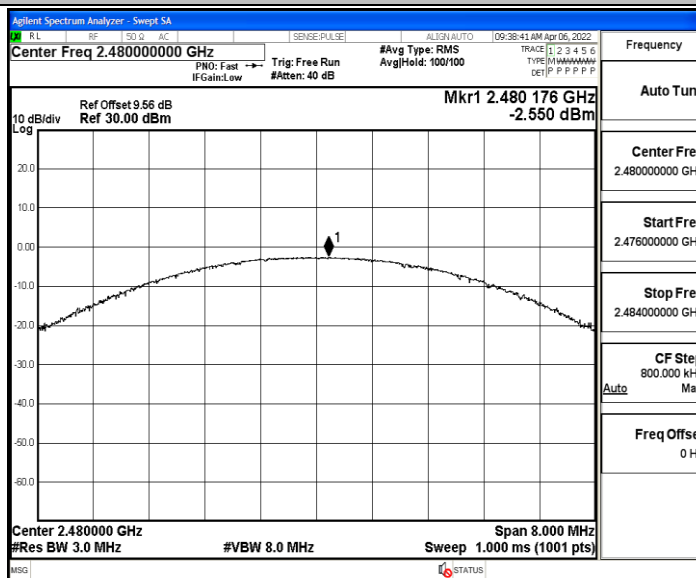
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

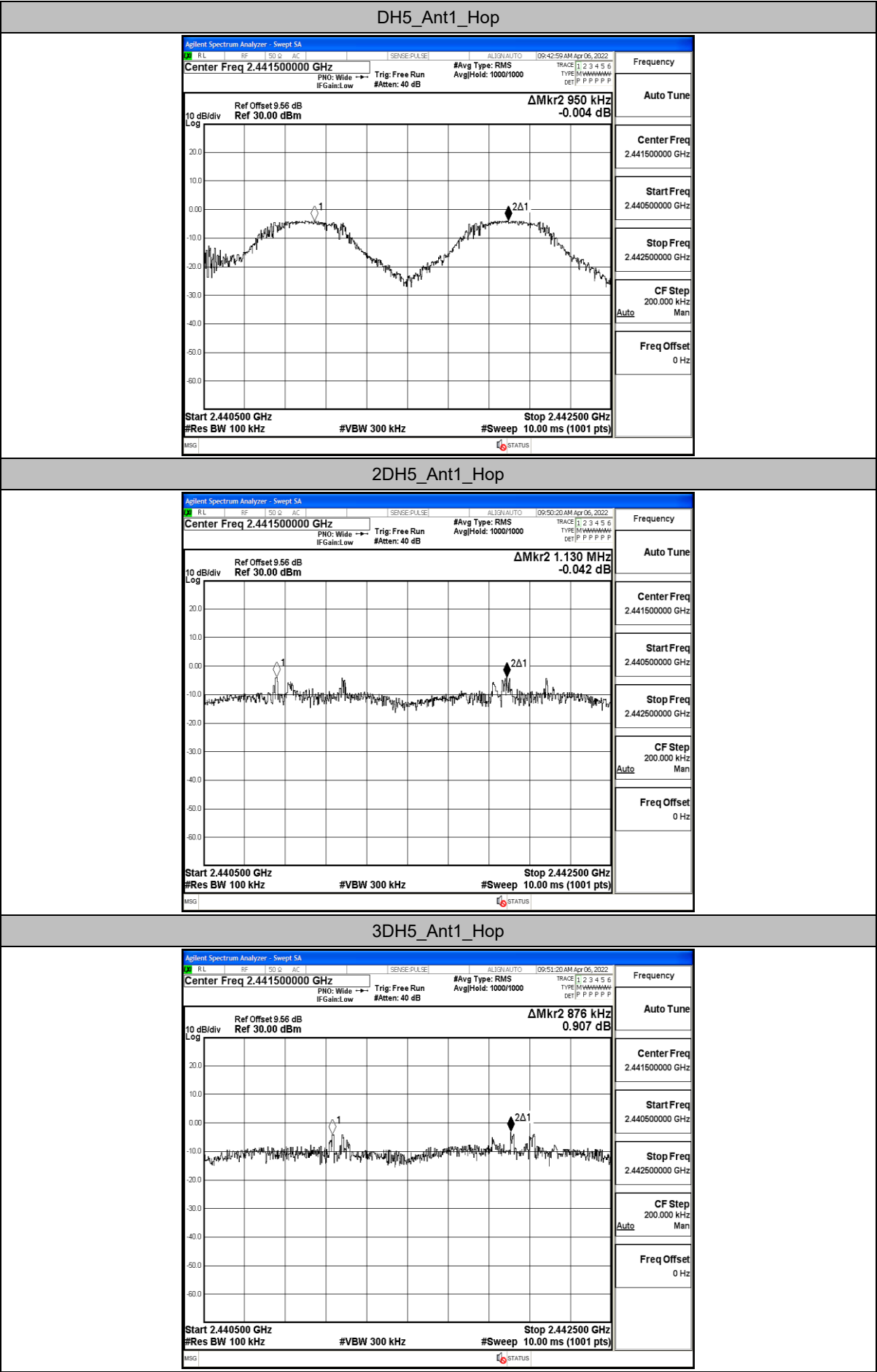


Appendix C: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.95	≥0.807	PASS
2DH5	Ant1	Hop	1.13	≥0.860	PASS
3DH5	Ant1	Hop	0.876	≥0.866	PASS

Test Graphs

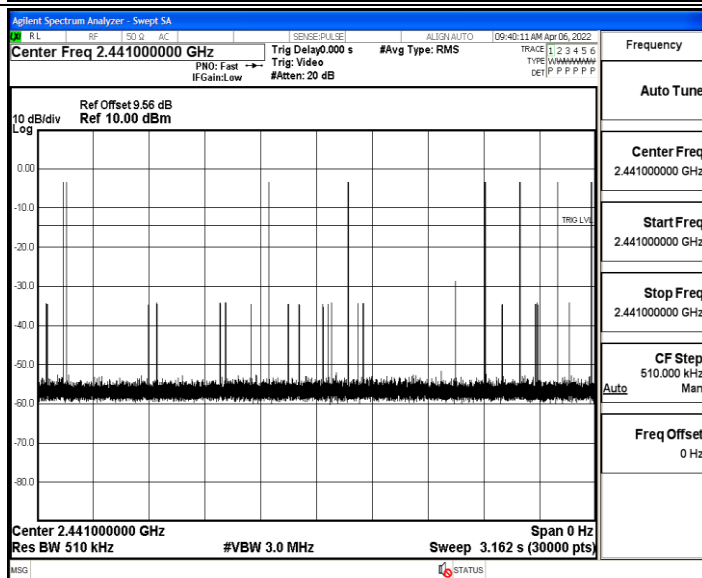
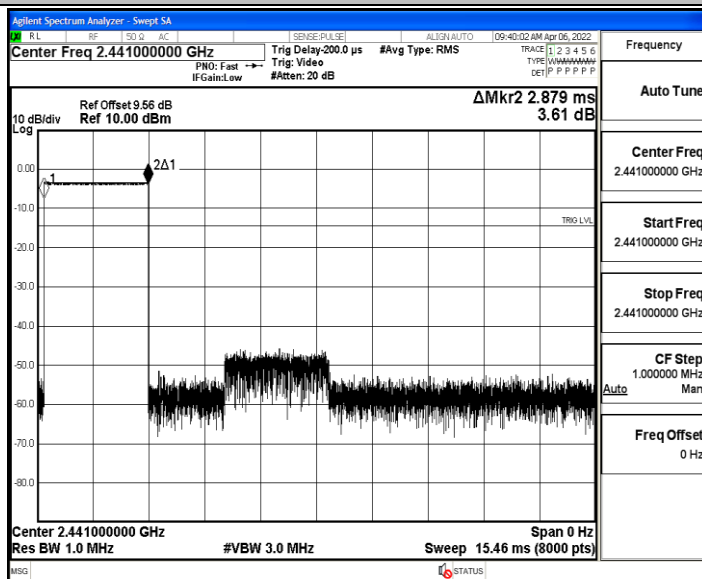


Appendix D: Time of occupancy

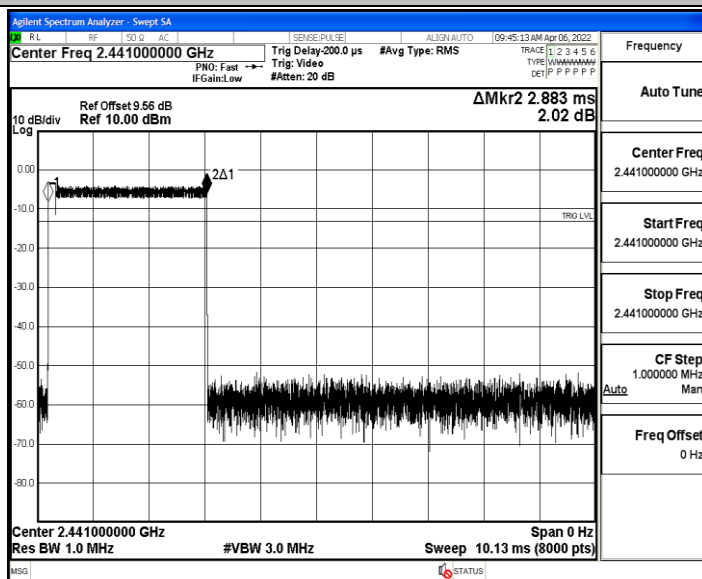
Test Result

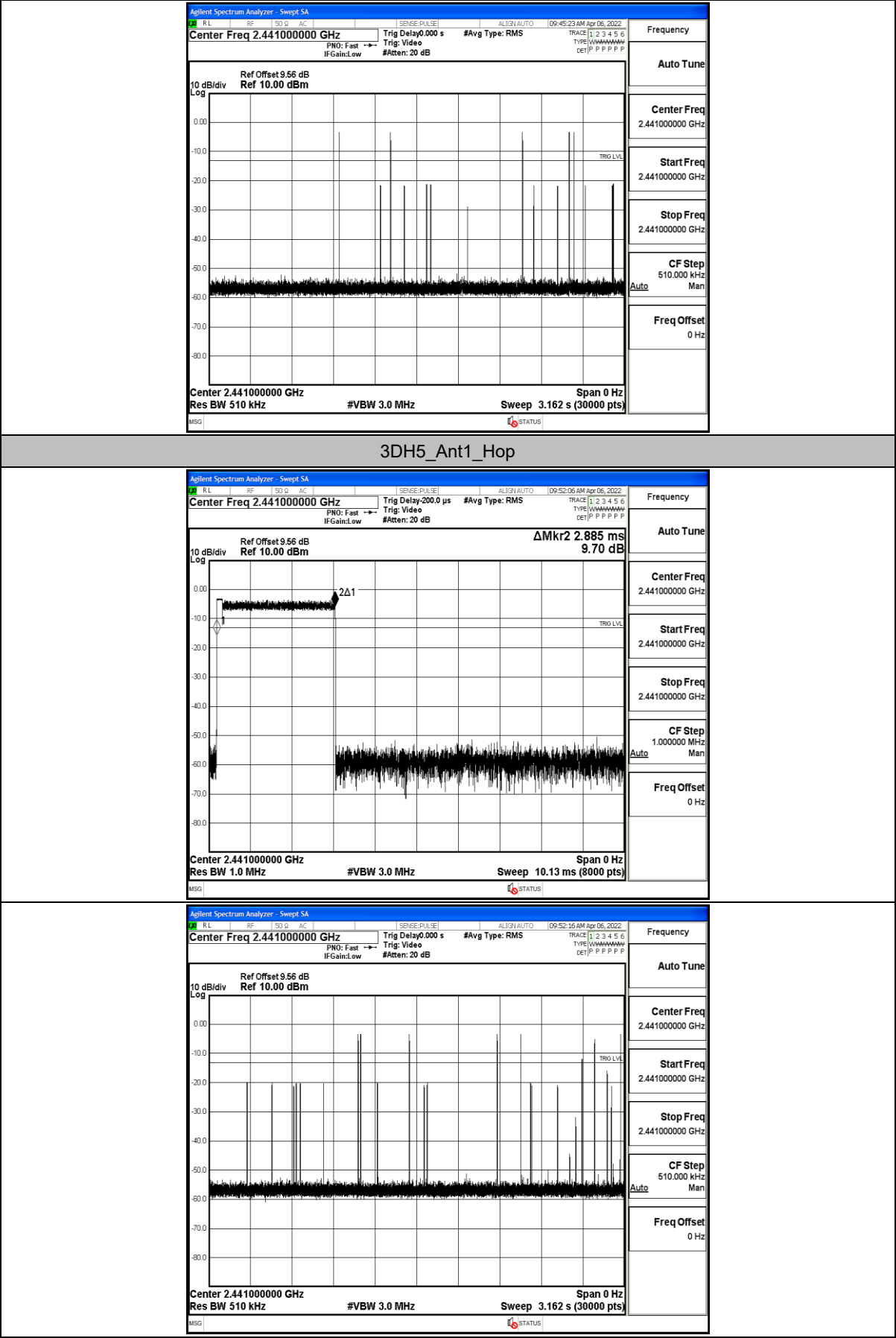
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	90	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.88	70	0.202	≤0.4	PASS
3DH5	Ant1	Hop	2.89	90	0.26	≤0.4	PASS

DH5_Ant1_Hop



2DH5_Ant1_Hop



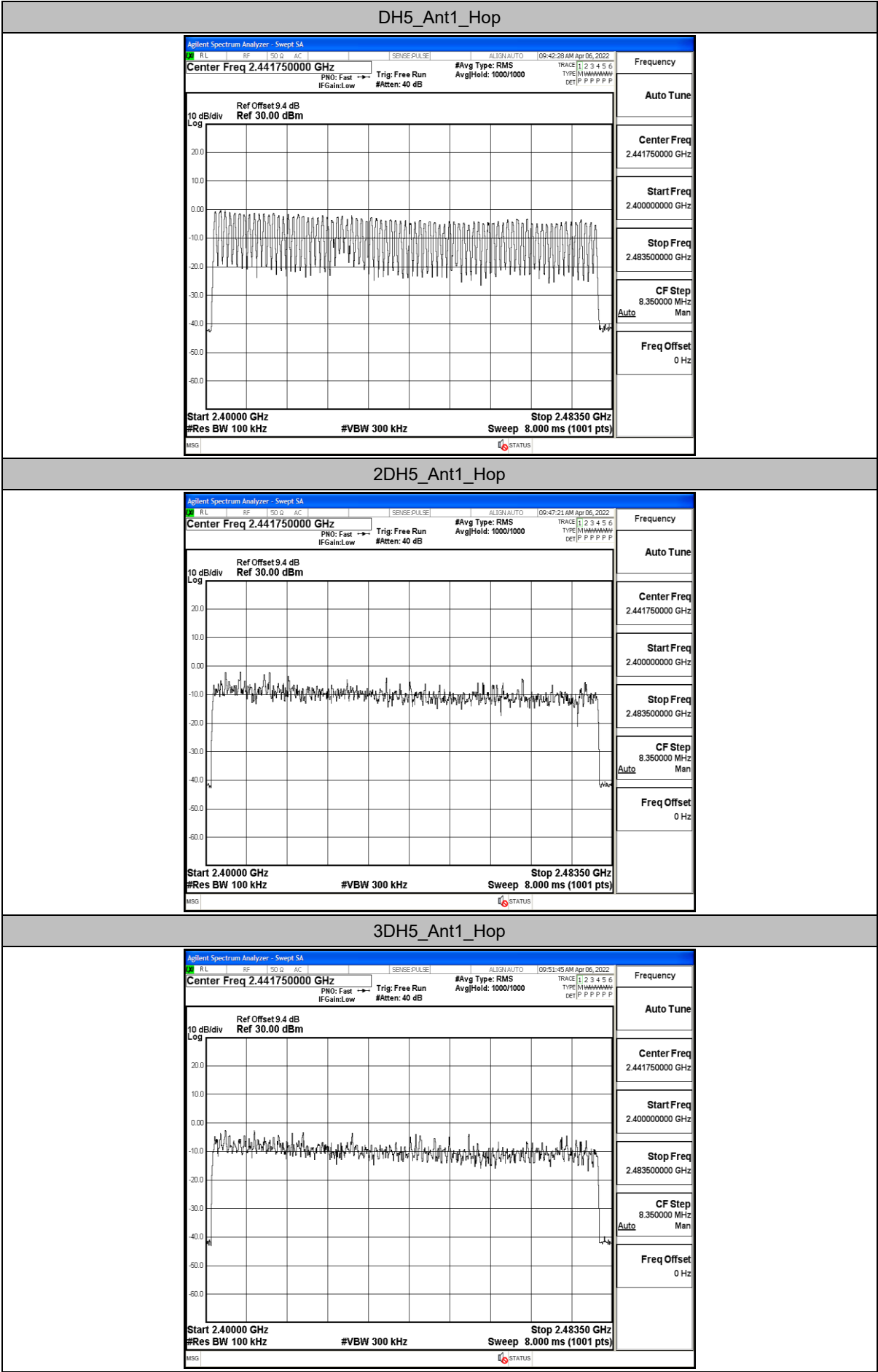


Appendix E: Number of hopping channels

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



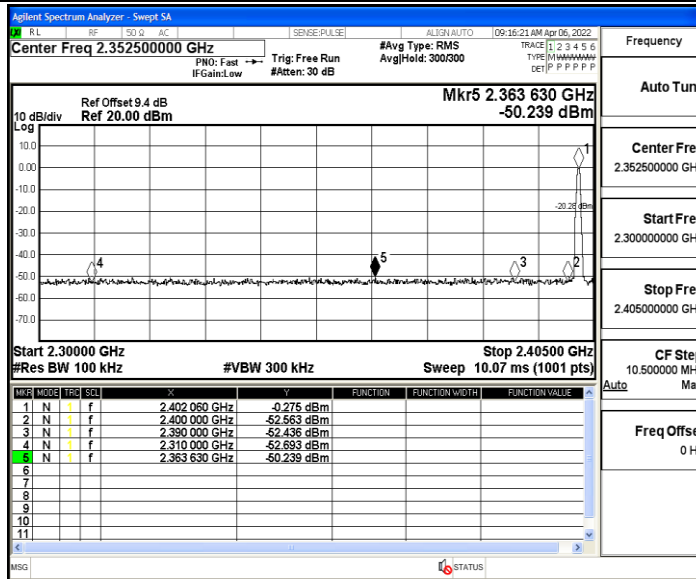
Appendix F: Band edge measurements

Test Result

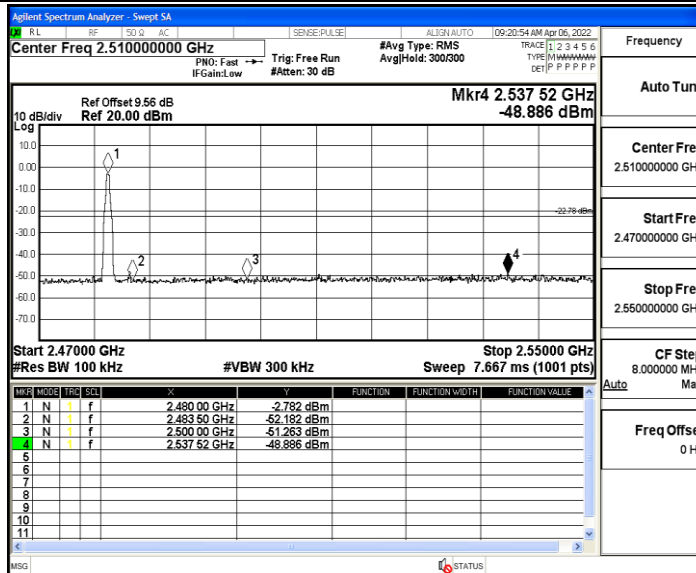
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.28	-50.24	≤ -20.28	PASS
		High	2480	-2.78	-48.89	≤ -22.78	PASS
		Low	Hop_2402	-0.97	-50.2	≤ -20.97	PASS
		High	Hop_2480	-4.53	-47.2	≤ -24.53	PASS
2DH5	Ant1	Low	2402	-2.07	-49.81	≤ -22.07	PASS
		High	2480	-2.92	-48.46	≤ -22.92	PASS
		Low	Hop_2402	-5.39	-49.65	≤ -25.39	PASS
		High	Hop_2480	-7.29	-48.87	≤ -27.29	PASS
3DH5	Ant1	Low	2402	-0.34	-49.88	≤ -20.34	PASS
		High	2480	-3.01	-47.7	≤ -23.01	PASS
		Low	Hop_2402	-5.22	-49.6	≤ -25.22	PASS
		High	Hop_2480	-8.57	-47.77	≤ -28.57	PASS

Test Graphs

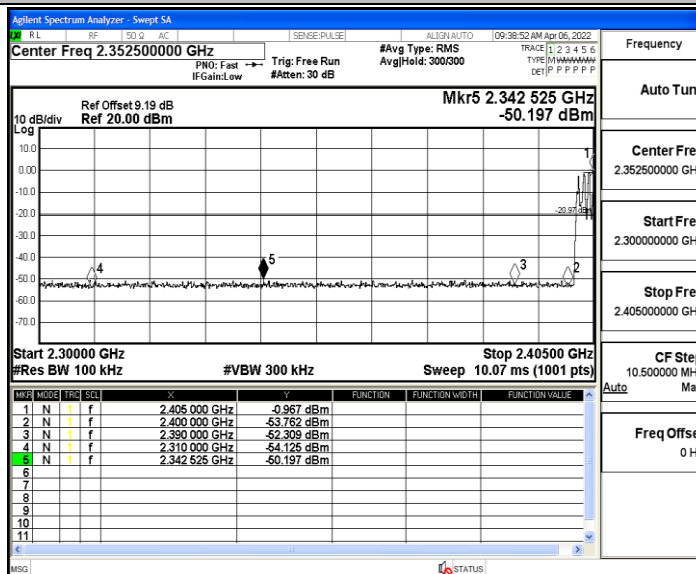
DH5_Ant1_Low_2402



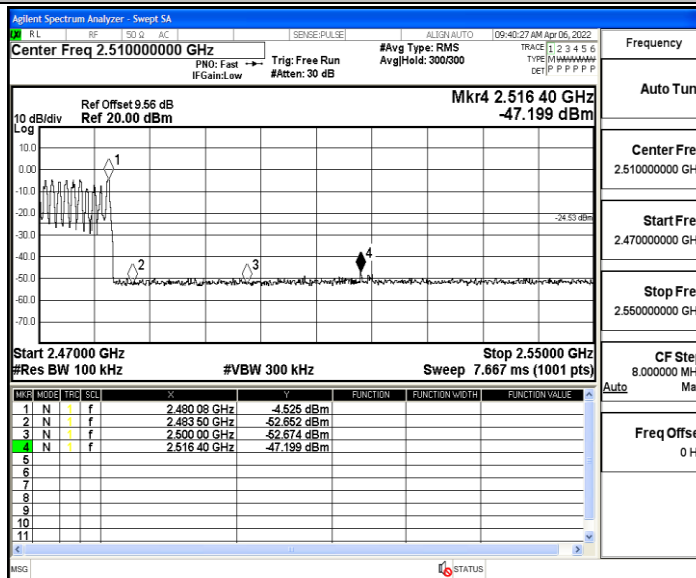
DH5_Ant1_High_2480



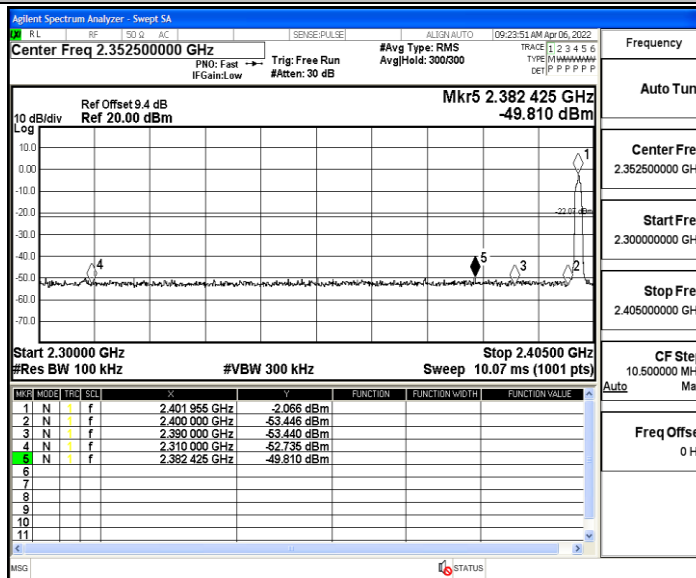
DH5_Ant1_Low_Hop_2402



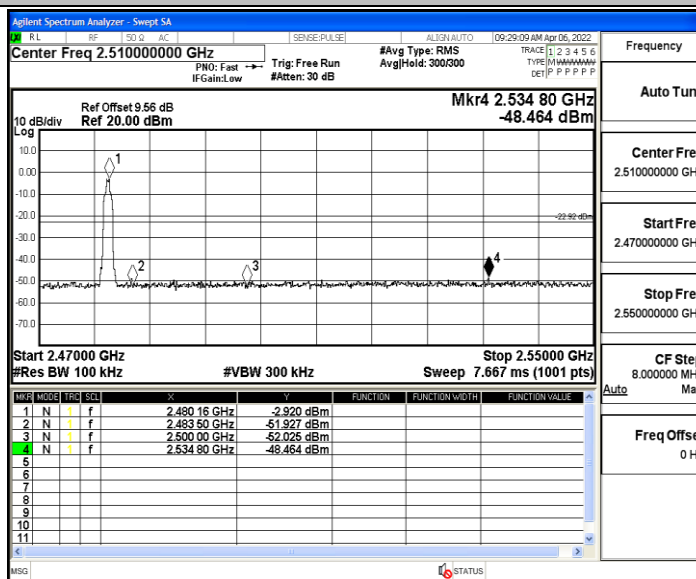
DH5_Ant1_High_Hop_2480



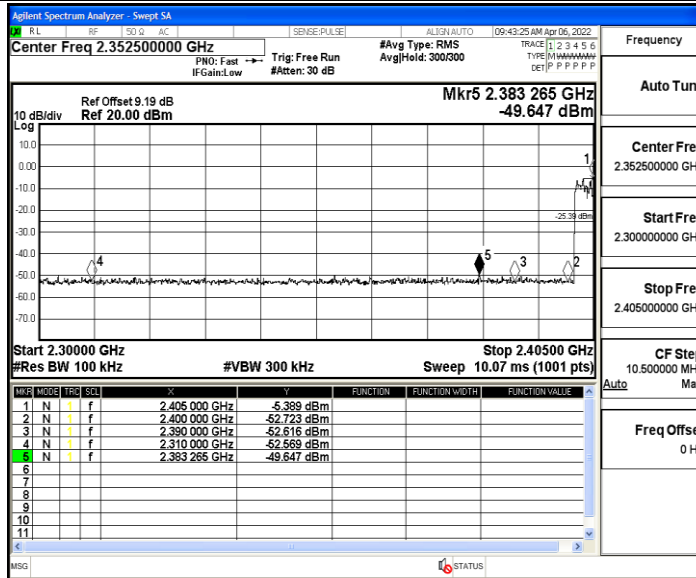
2DH5_Ant1_Low_2402



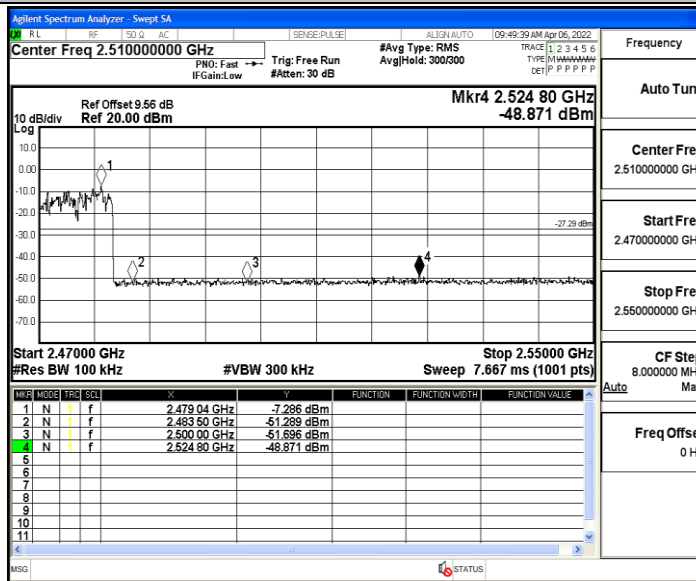
2DH5_Ant1_High_2480



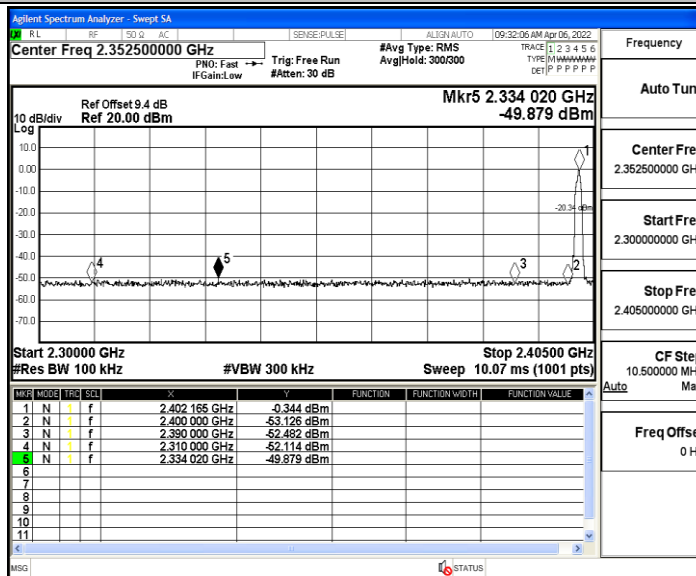
2DH5_Ant1_Low_Hop_2402



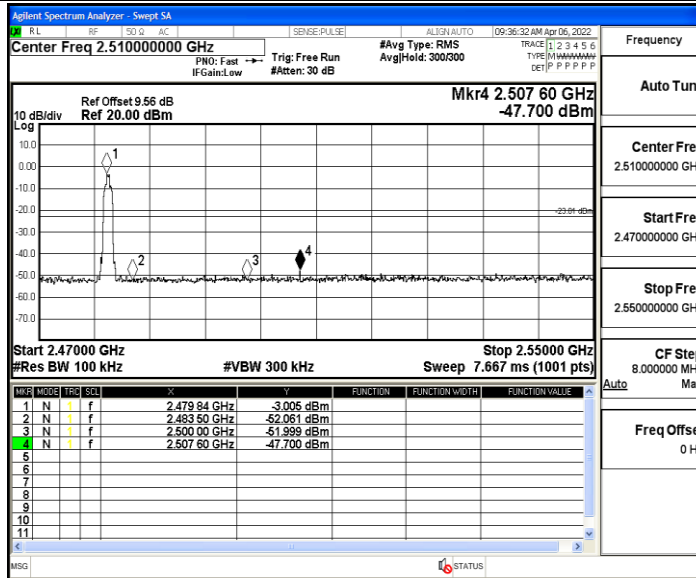
2DH5_Ant1_High_Hop_2480



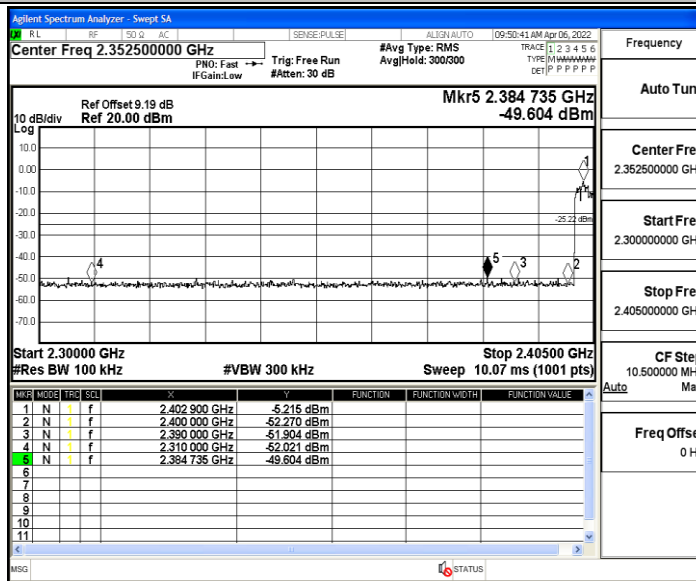
3DH5_Ant1_Low_2402



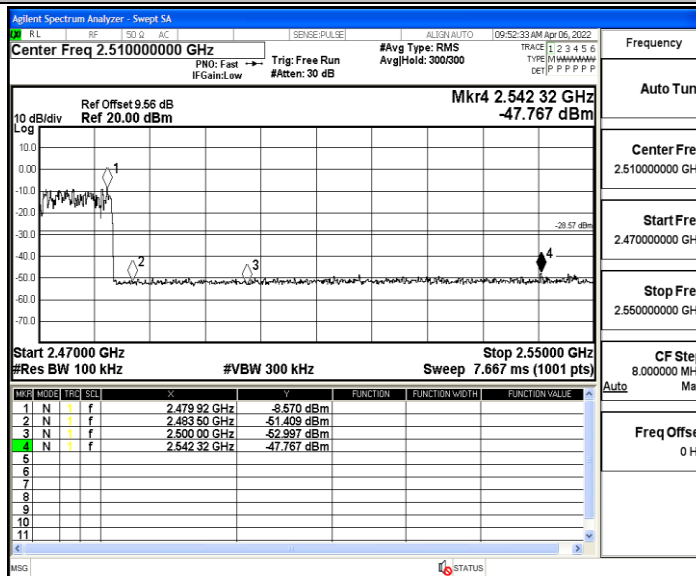
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

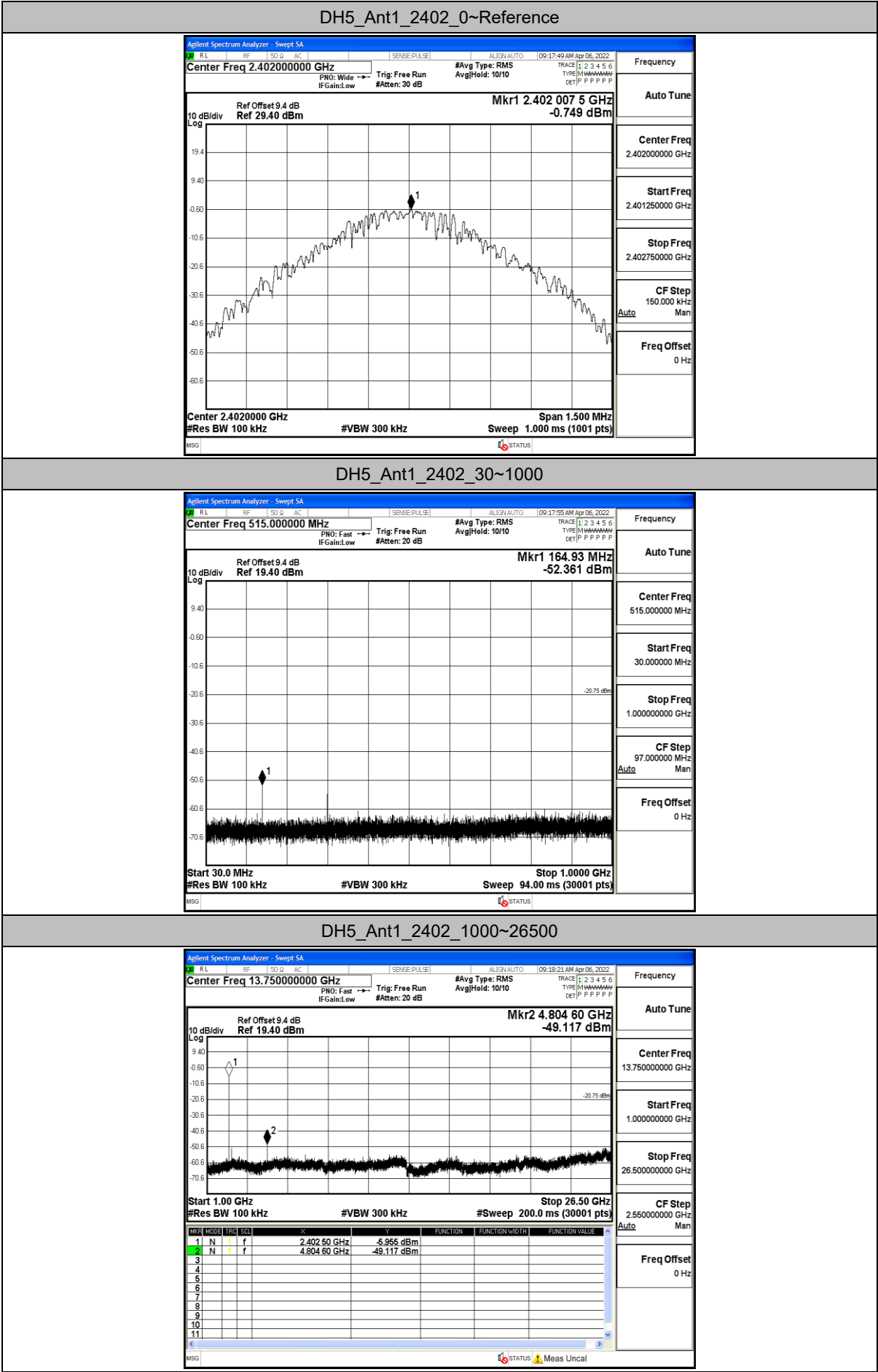


Appendix G: Conducted Spurious Emission

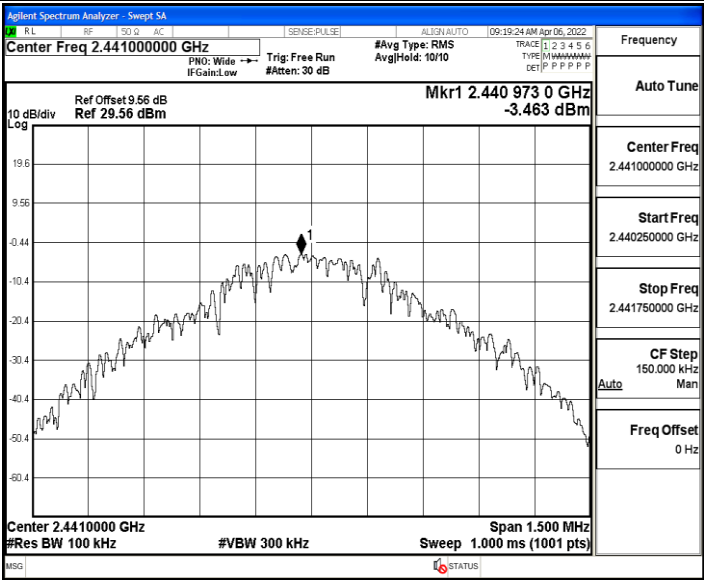
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.75	-0.75	---	PASS
			30~1000	-0.75	-52.36	≤-20.75	PASS
			1000~26500	-0.75	-49.12	≤-20.75	PASS
		2441	Reference	-3.46	-3.46	---	PASS
			30~1000	-3.46	-50.32	≤-23.46	PASS
			1000~26500	-3.46	-49.79	≤-23.46	PASS
		2480	Reference	-3.47	-3.47	---	PASS
			30~1000	-3.47	-52.88	≤-23.47	PASS
			1000~26500	-3.47	-50.97	≤-23.47	PASS
2DH5	Ant1	2402	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-55.5	≤-21.43	PASS
			1000~26500	-1.43	-50.01	≤-21.43	PASS
		2441	Reference	-7.68	-7.68	---	PASS
			30~1000	-7.68	-53.03	≤-27.68	PASS
			1000~26500	-7.68	-50.07	≤-27.68	PASS
		2480	Reference	-3.01	-3.01	---	PASS
			30~1000	-3.01	-54.78	≤-23.01	PASS
			1000~26500	-3.01	-51.11	≤-23.01	PASS
3DH5	Ant1	2402	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-51.97	≤-21.11	PASS
			1000~26500	-1.11	-51.28	≤-21.11	PASS
		2441	Reference	-3.30	-3.30	---	PASS
			30~1000	-3.30	-52.78	≤-23.3	PASS
			1000~26500	-3.30	-50.69	≤-23.3	PASS
		2480	Reference	-5.24	-5.24	---	PASS
			30~1000	-5.24	-51.67	≤-25.24	PASS
			1000~26500	-5.24	-36.45	≤-25.24	PASS

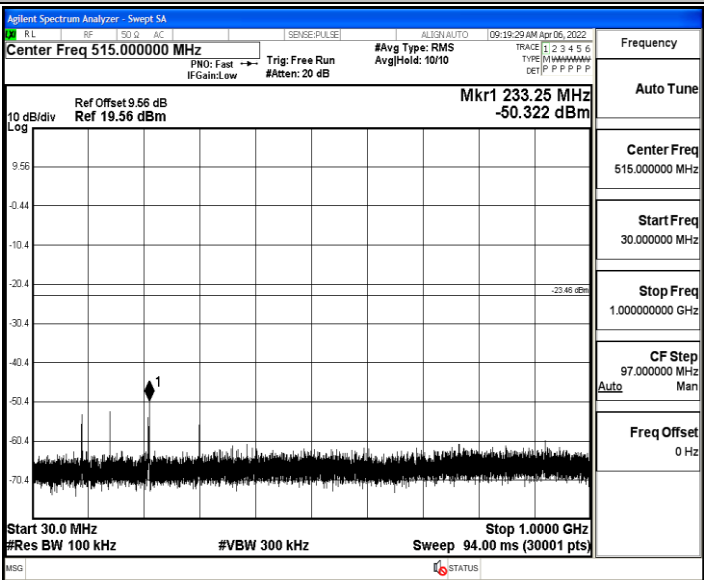
Test Graphs



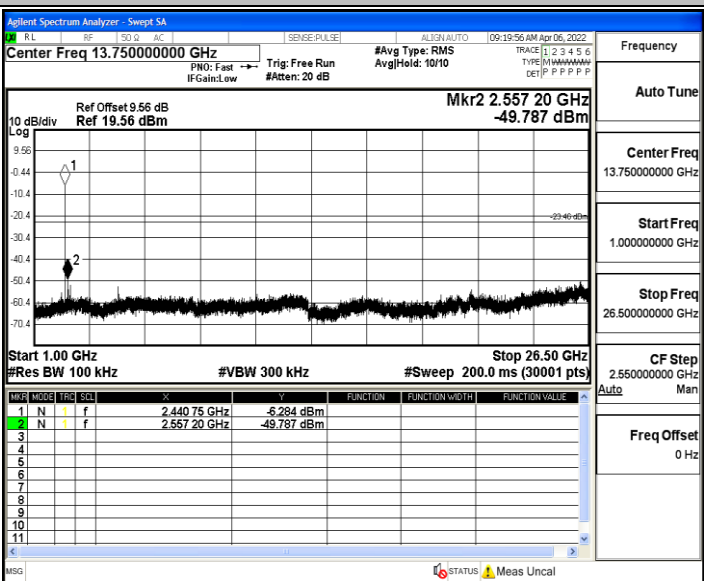
DH5_Ant1_2441_0~Reference



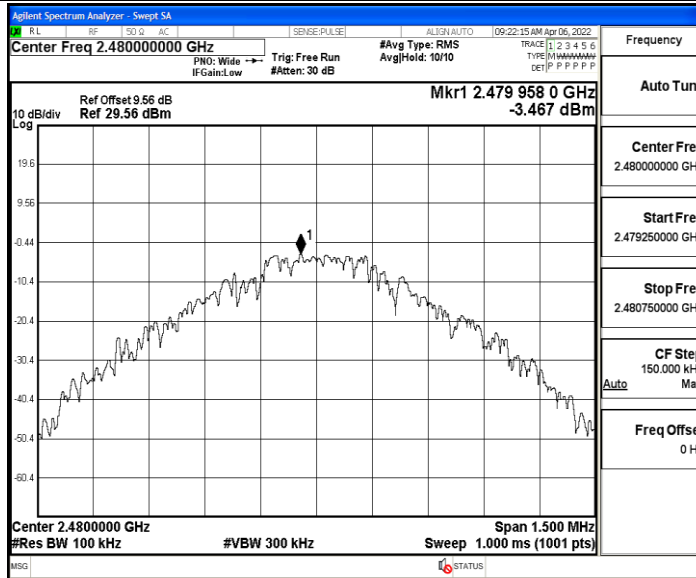
DH5_Ant1_2441_30~1000



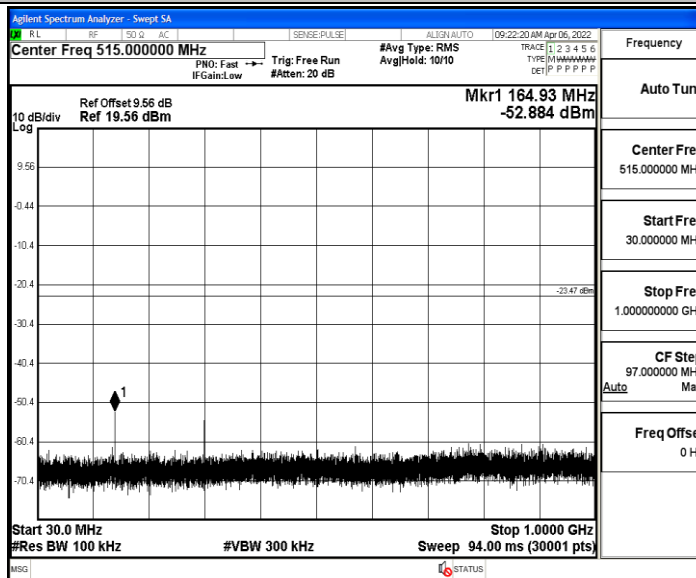
DH5_Ant1_2441_1000~26500



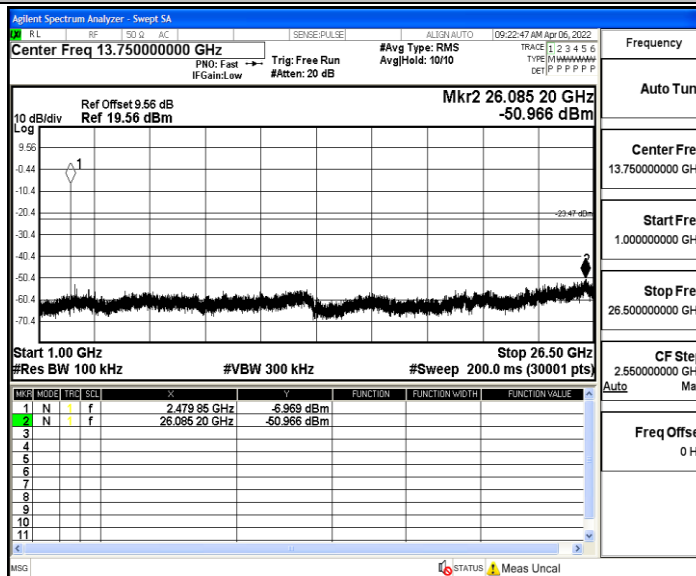
DH5_Ant1_2480_0~Reference



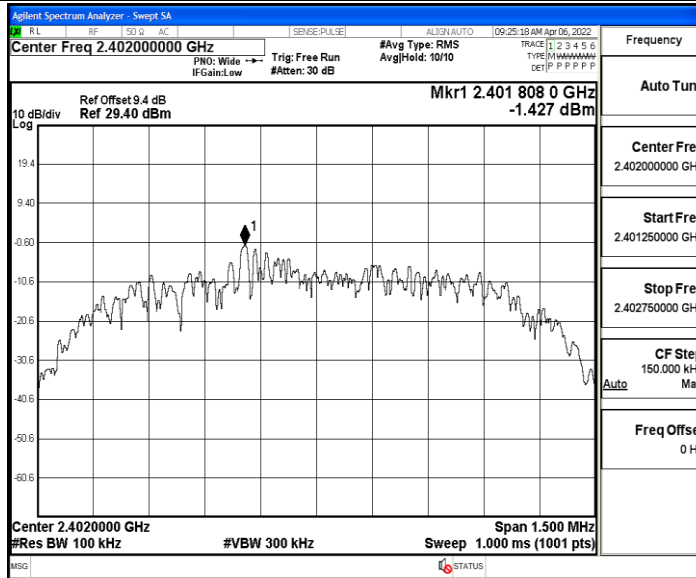
DH5_Ant1_2480_30~1000



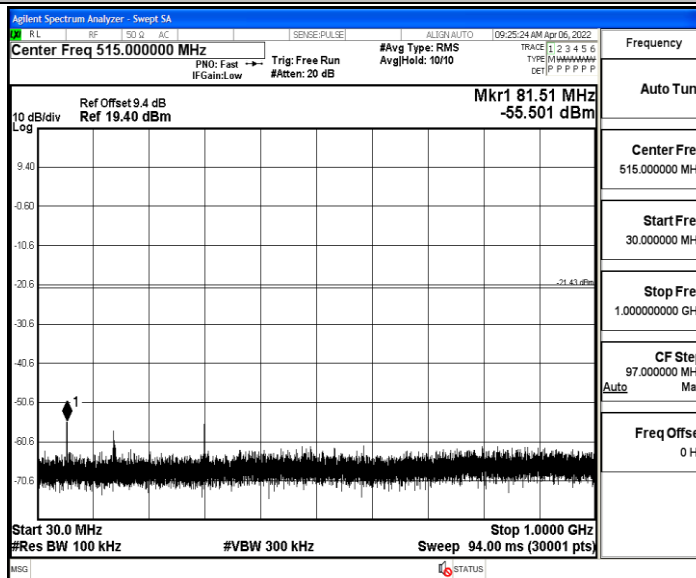
DH5_Ant1_2480_1000~26500



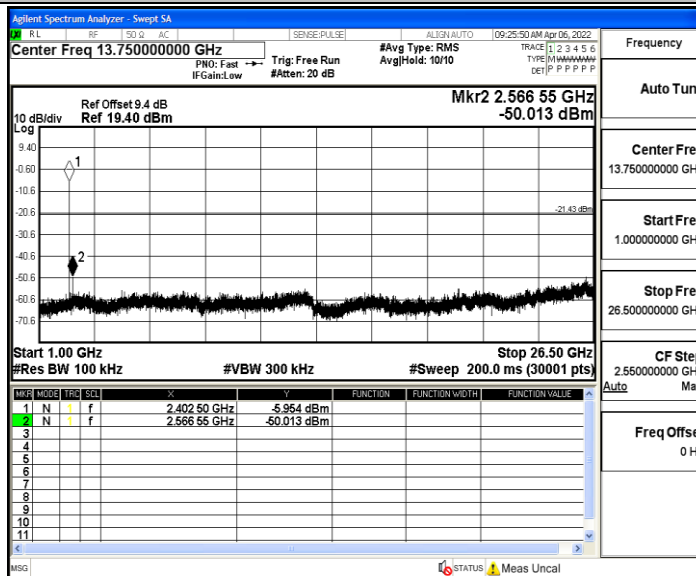
2DH5_Ant1_2402_0~Reference



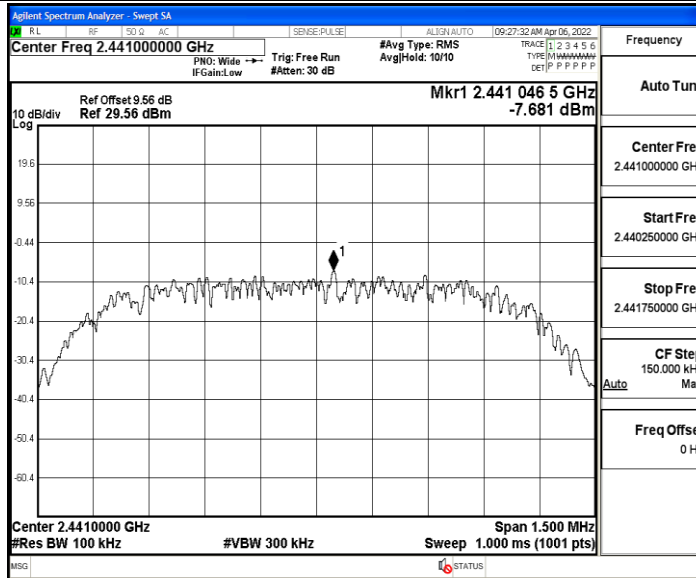
2DH5_Ant1_2402_30~1000



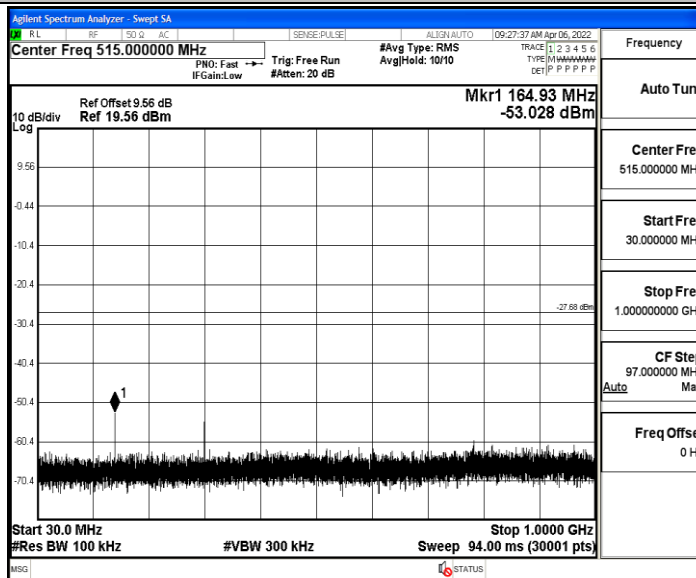
2DH5_Ant1_2402_1000~26500



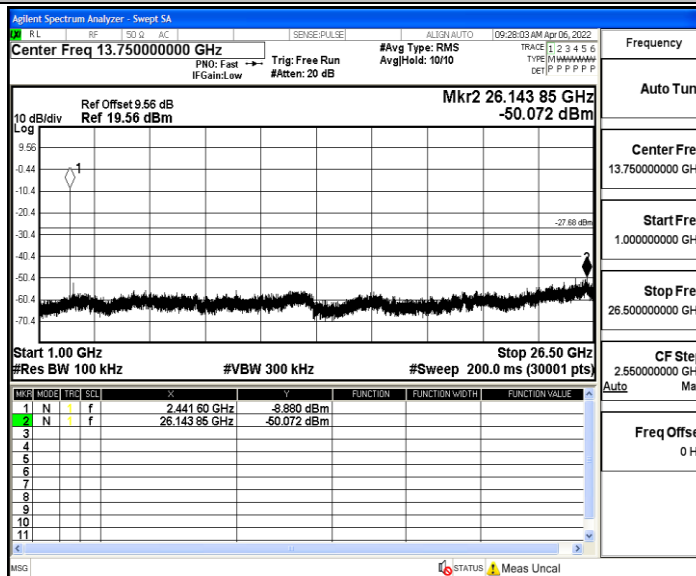
2DH5_Ant1_2441_0~Reference



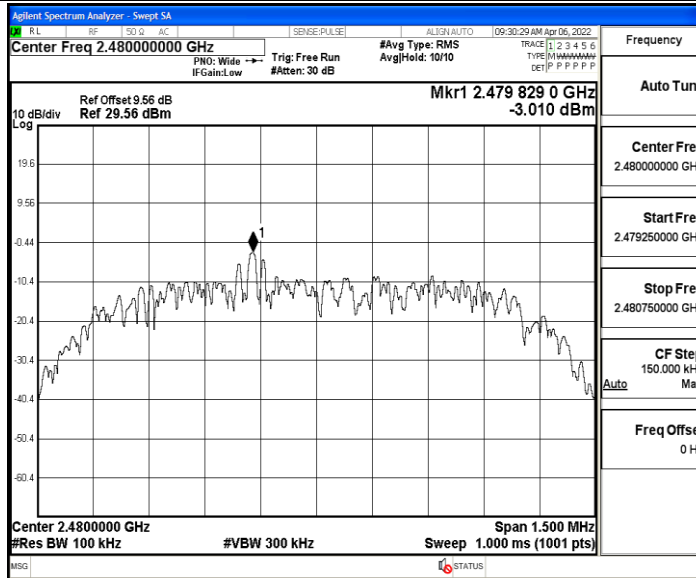
2DH5_Ant1_2441_30~1000



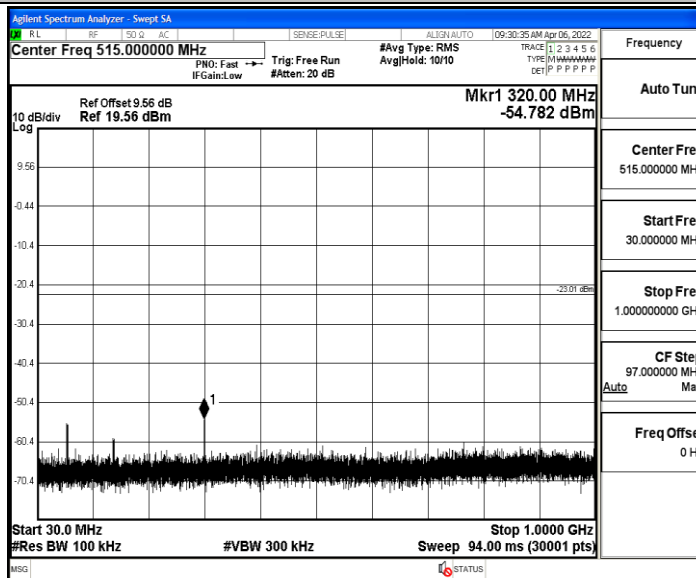
2DH5_Ant1_2441_1000~26500



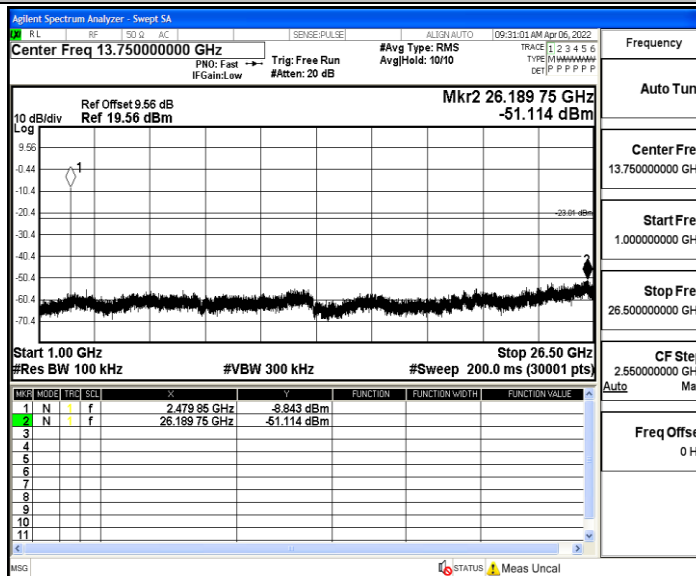
2DH5_Ant1_2480_0~Reference



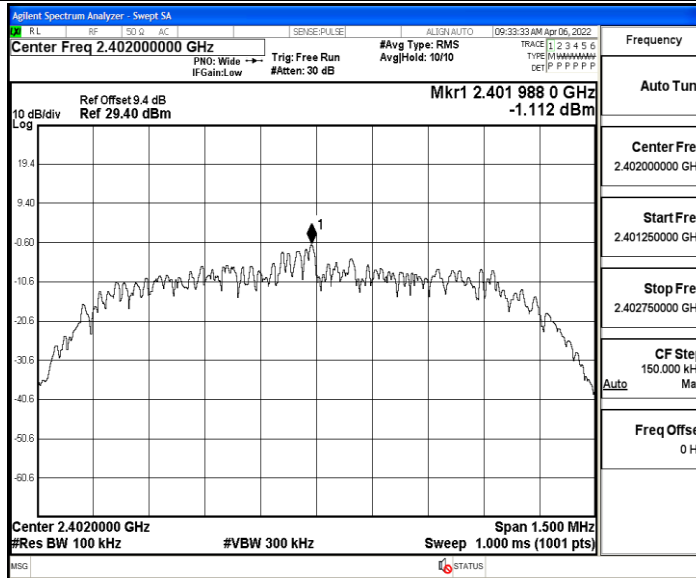
2DH5_Ant1_2480_30~1000



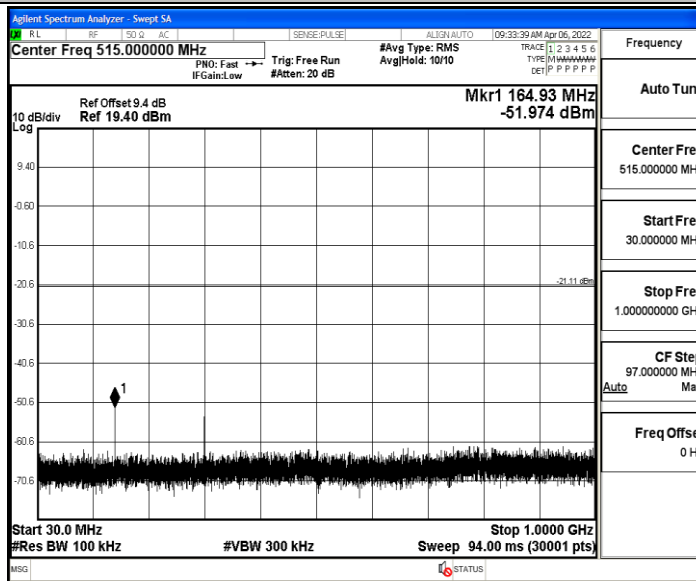
2DH5_Ant1_2480_1000~26500



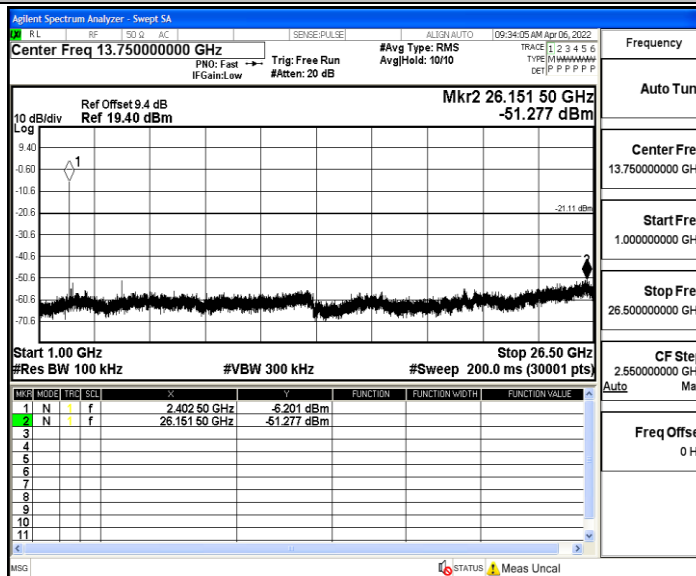
3DH5_Ant1_2402_0~Reference



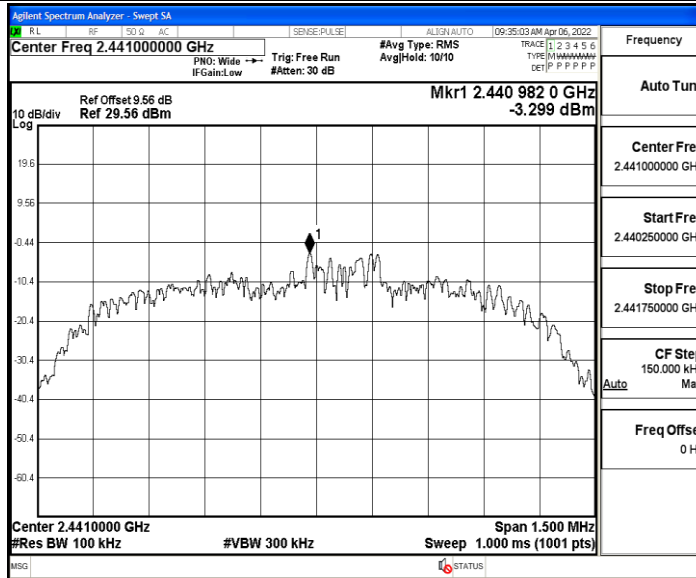
3DH5_Ant1_2402_30~1000



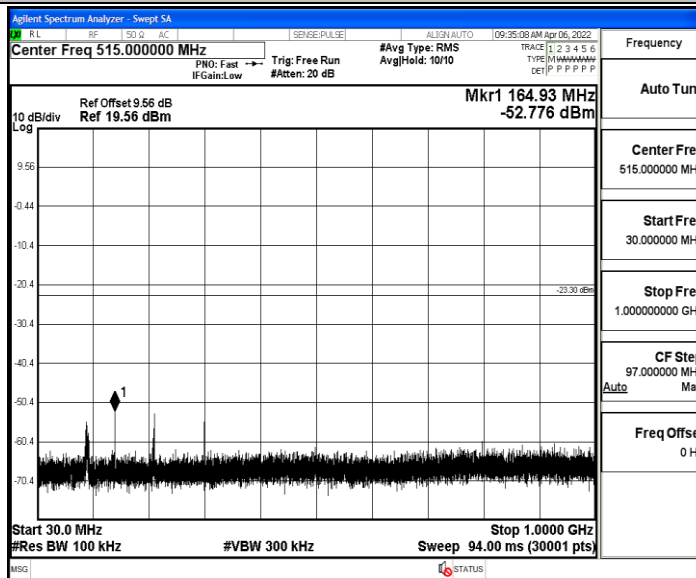
3DH5_Ant1_2402_1000~26500



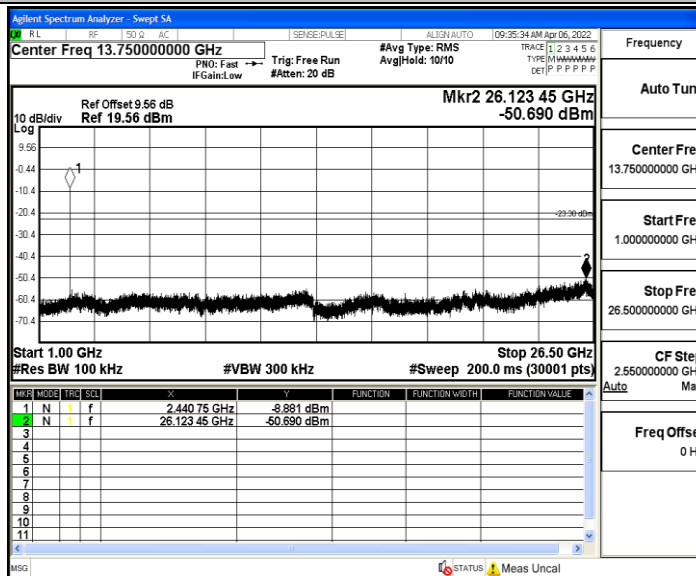
3DH5_Ant1_2441_0~Reference



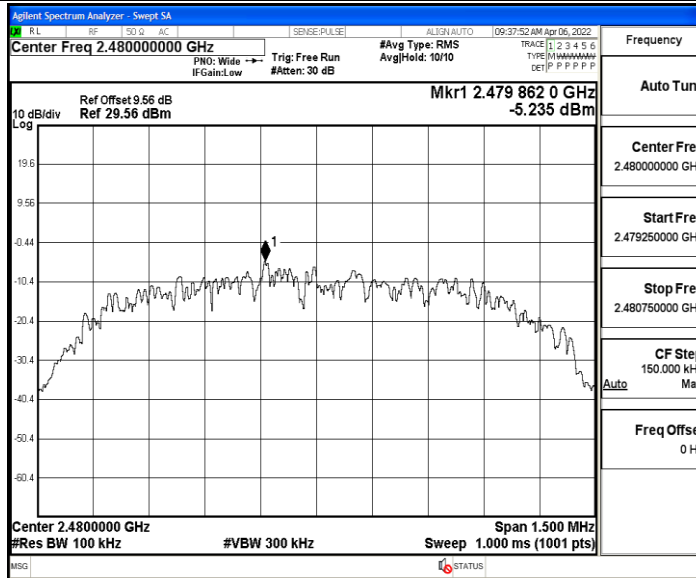
3DH5_Ant1_2441_30~1000



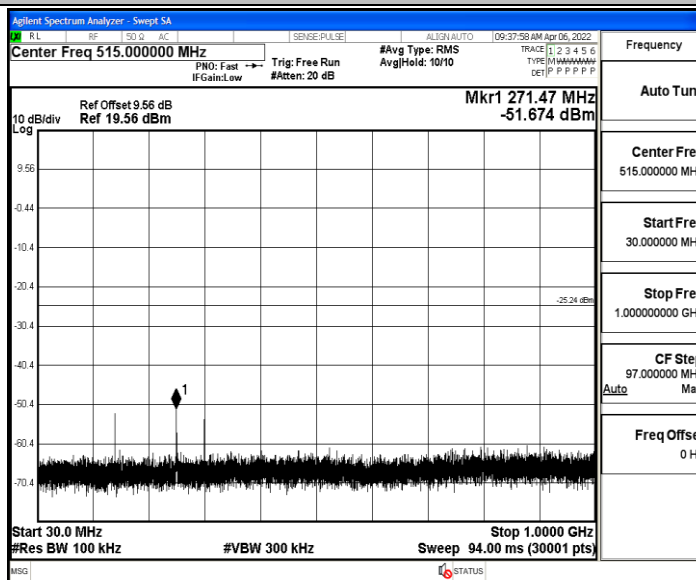
3DH5_Ant1_2441_1000~26500



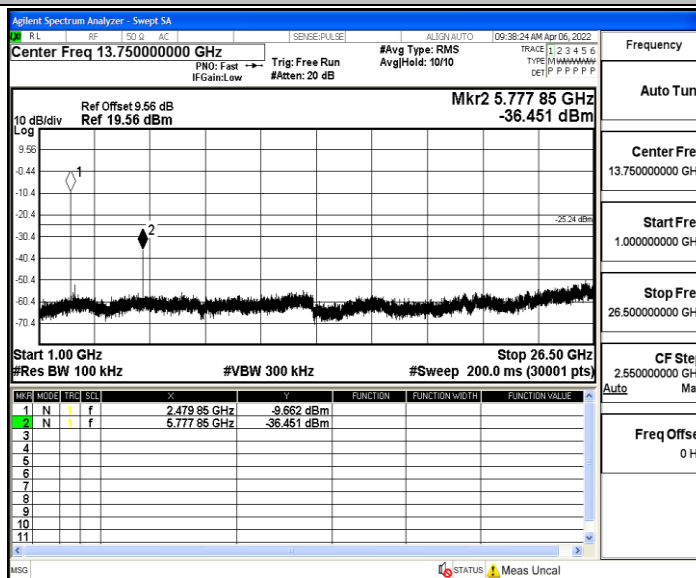
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



Appendix H: Emissions in Restricted Bands

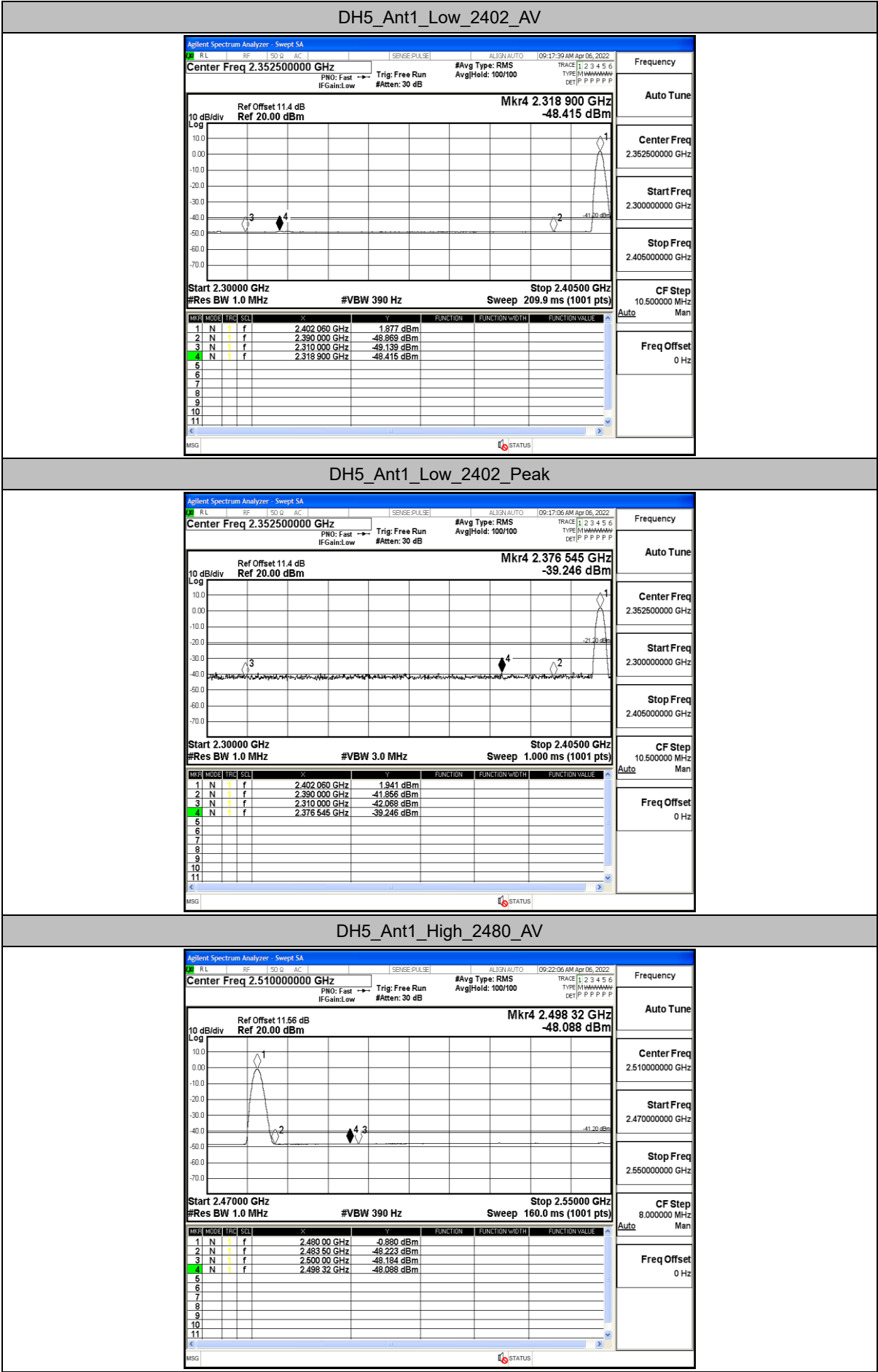
Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.14	≤-41.20	PASS
				AV	2318.900	-48.41	≤-41.20	PASS
				AV	2390.000	-48.87	≤-41.20	PASS
				Peak	2310.000	-42.07	≤-21.20	PASS
				Peak	2376.545	-39.25	≤-21.20	PASS
				Peak	2390.000	-41.86	≤-21.20	PASS
		High	2480	AV	2483.500	-48.22	≤-41.20	PASS
				AV	2498.320	-48.09	≤-41.20	PASS
				AV	2500.000	-48.18	≤-41.20	PASS
				Peak	2483.500	-40.98	≤-21.20	PASS
				Peak	2487.520	-38.32	≤-21.20	PASS
				Peak	2500.000	-40.29	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.08	≤-41.20	PASS
				AV	2351.240	-47.55	≤-41.20	PASS
				AV	2390.000	-48.89	≤-41.20	PASS
				Peak	2310.000	-42.19	≤-21.20	PASS
				Peak	2321.630	-38.19	≤-21.20	PASS
				Peak	2390.000	-41.17	≤-21.20	PASS
		High	2480	AV	2483.500	-47.68	≤-41.20	PASS
				AV	2483.520	-47.68	≤-41.20	PASS
				AV	2500.000	-48.12	≤-41.20	PASS
				Peak	2483.500	-41.58	≤-21.20	PASS
				Peak	2495.200	-38.47	≤-21.20	PASS
				Peak	2500.000	-40.57	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.02	≤-41.20	PASS
				AV	2320.580	-48.63	≤-41.20	PASS
				AV	2390.000	-48.82	≤-41.20	PASS
				Peak	2310.000	-41.92	≤-21.20	PASS
				Peak	2380.640	-38.14	≤-21.20	PASS
				Peak	2390.000	-42.55	≤-21.20	PASS
		High	2480	AV	2483.500	-48.29	≤-41.20	PASS
				AV	2498.400	-47.99	≤-41.20	PASS
				AV	2500.000	-48.15	≤-41.20	PASS
				Peak	2483.500	-40.48	≤-21.20	PASS
				Peak	2496.160	-38.35	≤-21.20	PASS
				Peak	2500.000	-39.79	≤-21.20	PASS

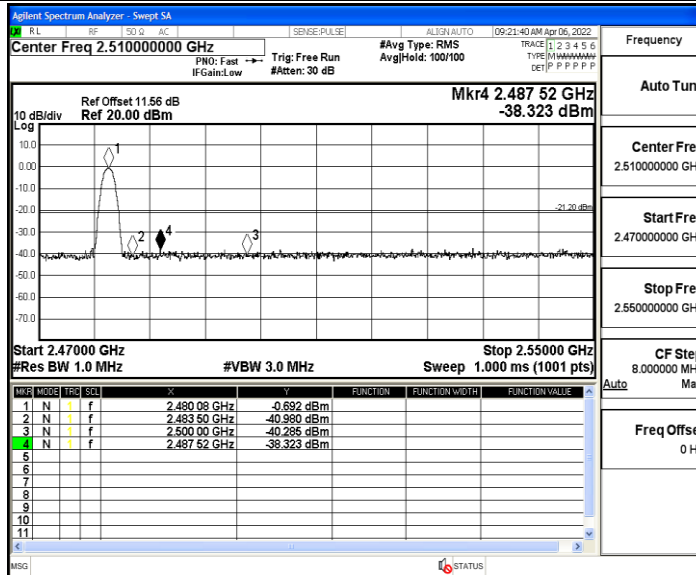
Note:

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.

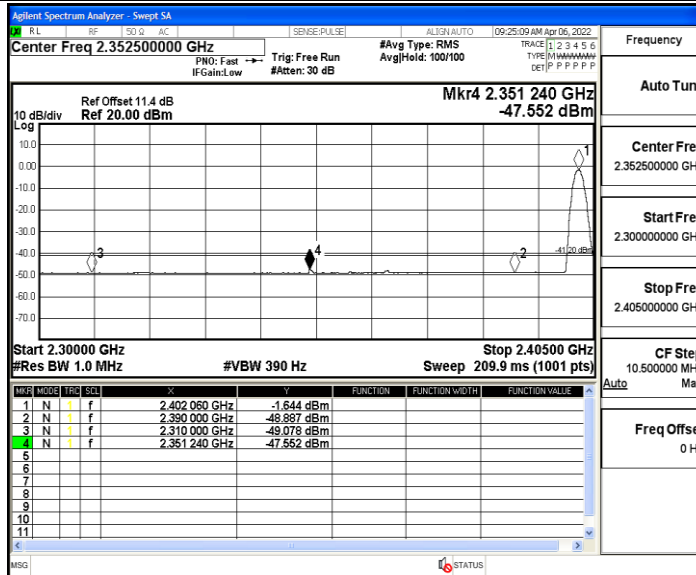
Test Graphs



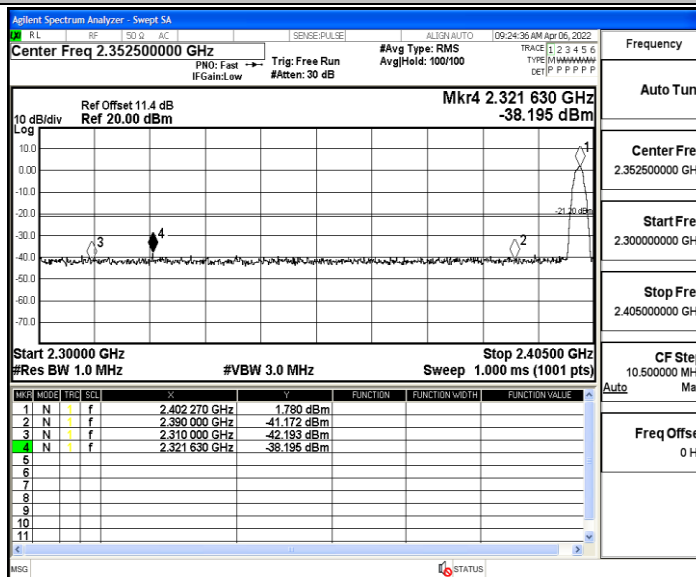
DH5_Ant1_High_2480_Peak



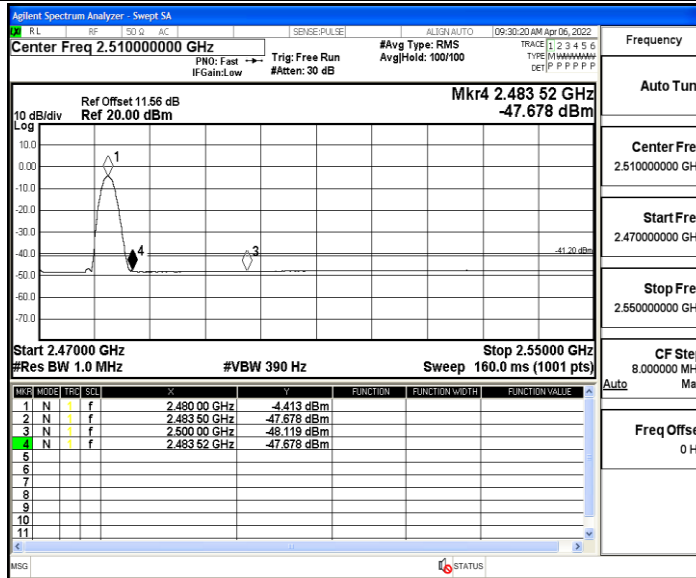
2DH5_Ant1_Low_2402_AV



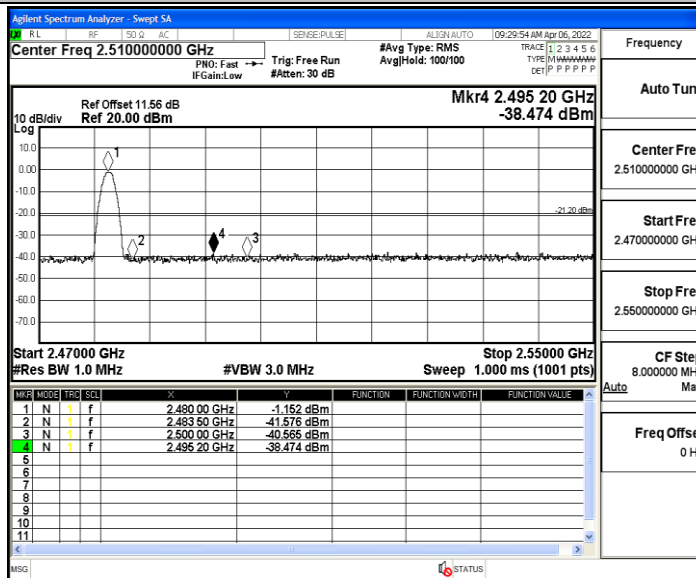
2DH5_Ant1_Low_2402_Peak



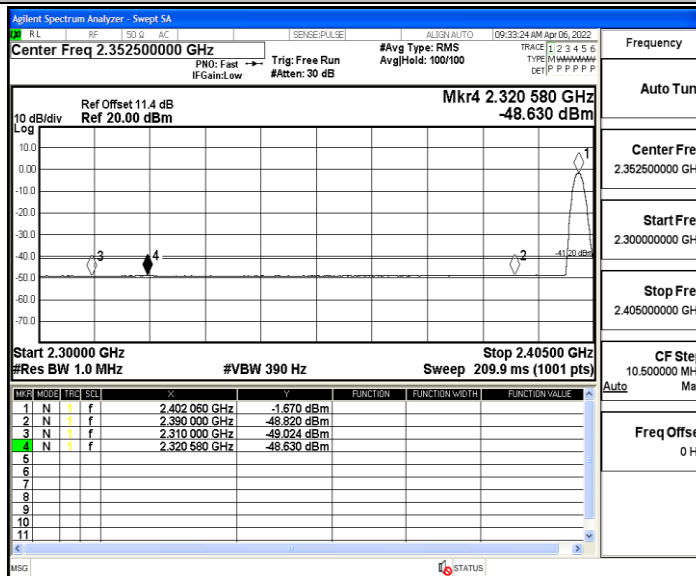
2DH5_Ant1_High_2480_AV



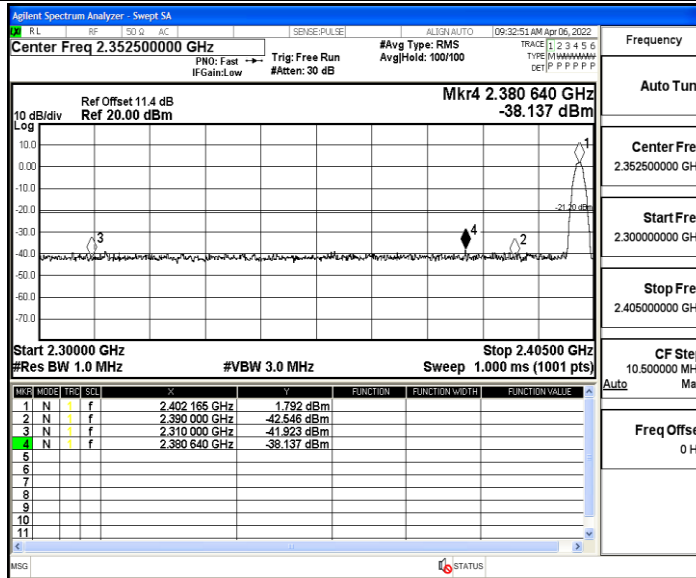
2DH5_Ant1_High_2480_Peak



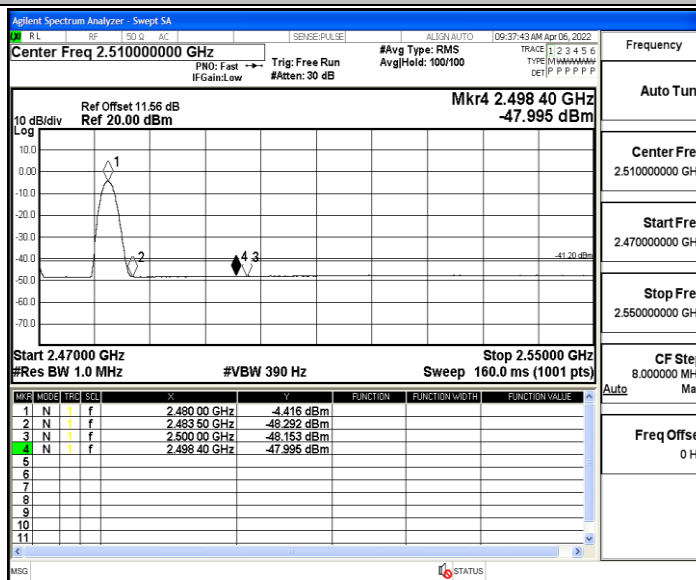
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

