

RF Test Data for BT(BDR/EDR) (Conducted Measurement)**Product Name: Android SET TOP BOX****Trade Mark: Viya****Test Model: SC6BHA****FCC ID: 2AOVU-SEI830AT****Environmental Conditions**

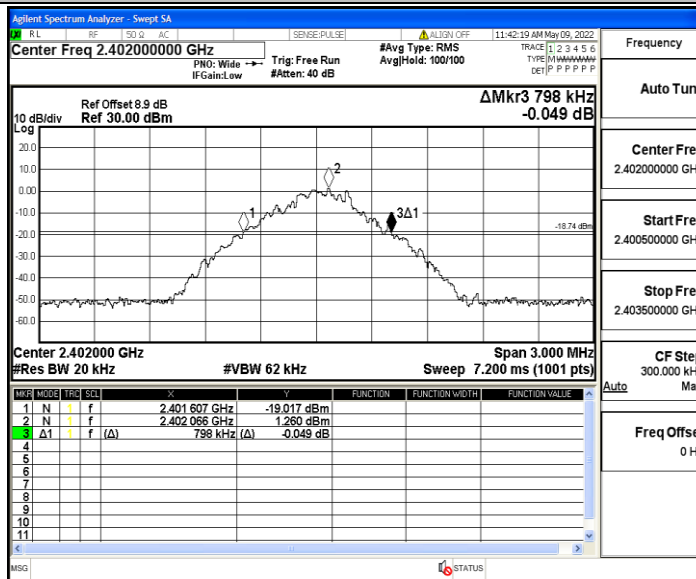
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth**Test Result**

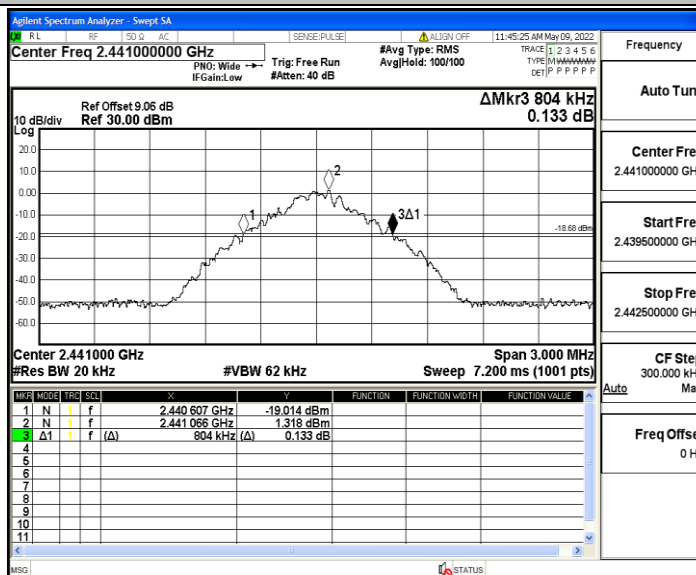
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.798	2401.607	2402.405	---	PASS
		2441	0.804	2440.607	2441.411	---	PASS
		2480	0.798	2479.607	2480.405	---	PASS
2DH5	Ant1	2402	1.269	2401.373	2402.642	---	PASS
		2441	1.263	2440.376	2441.639	---	PASS
		2480	1.266	2479.376	2480.642	---	PASS
3DH5	Ant1	2402	1.278	2401.361	2402.639	---	PASS
		2441	1.302	2440.358	2441.660	---	PASS
		2480	1.245	2479.376	2480.621	---	PASS

Test Graphs

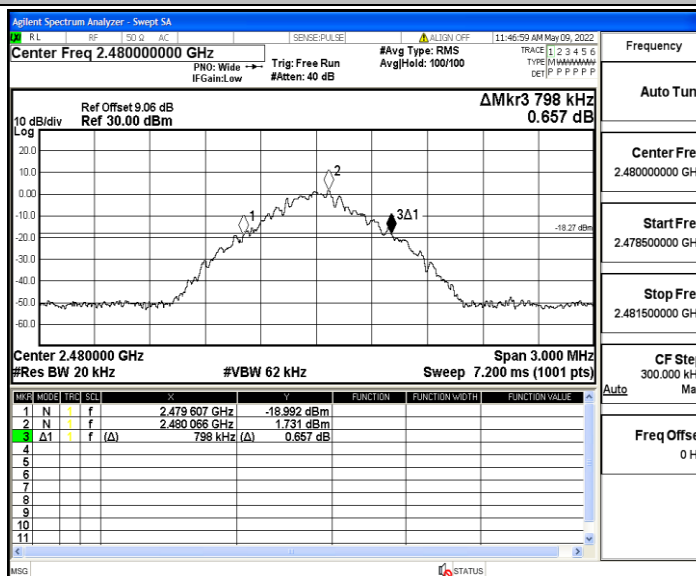
DH5_Ant1_2402



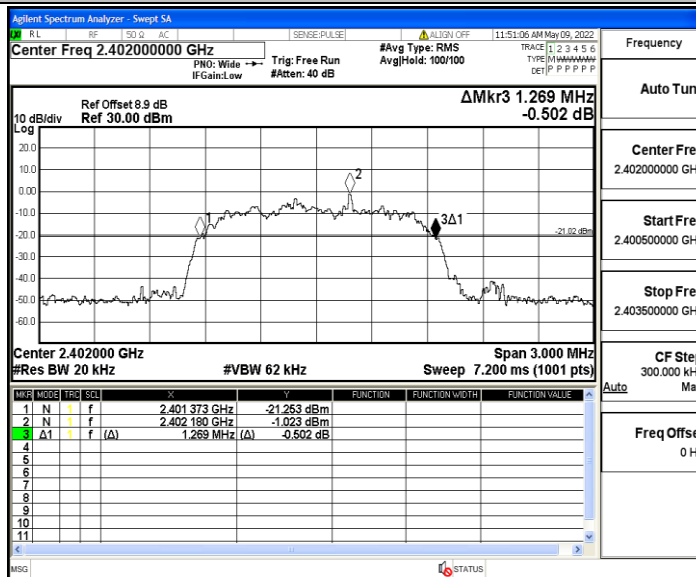
DH5_Ant1_2441



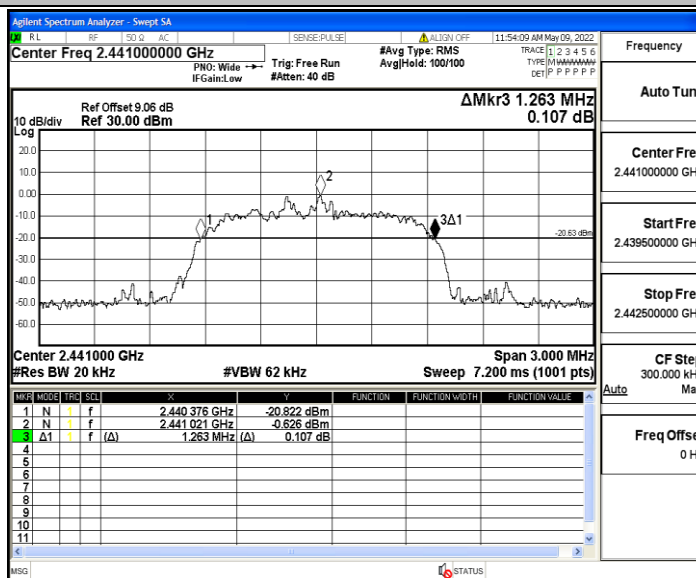
DH5_Ant1_2480



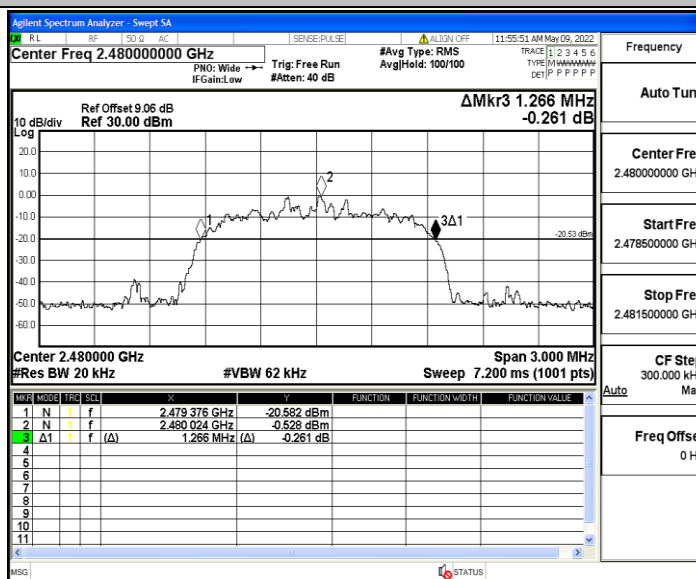
2DH5_Ant1_2402



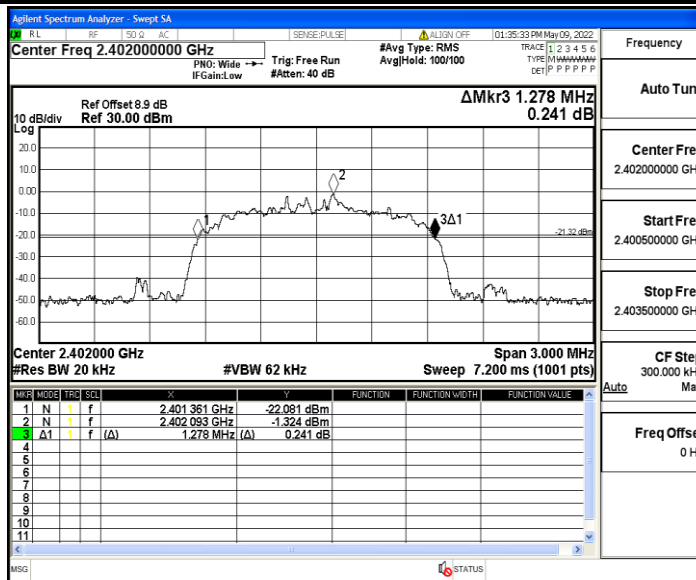
2DH5_Ant1_2441



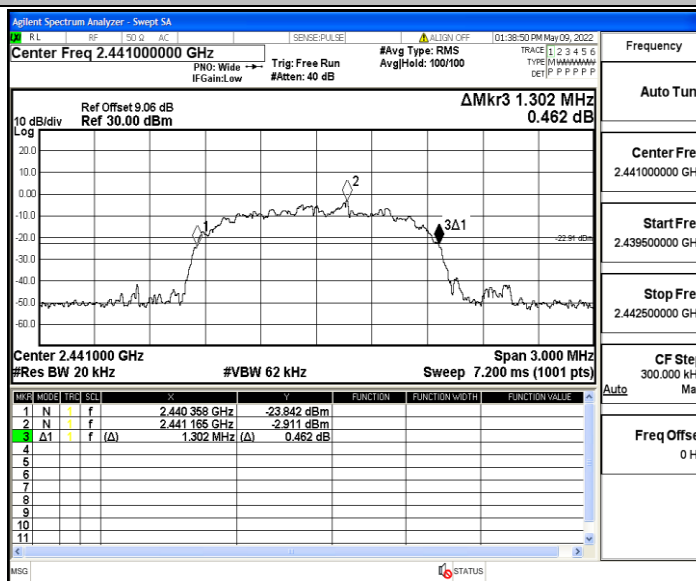
2DH5_Ant1_2480



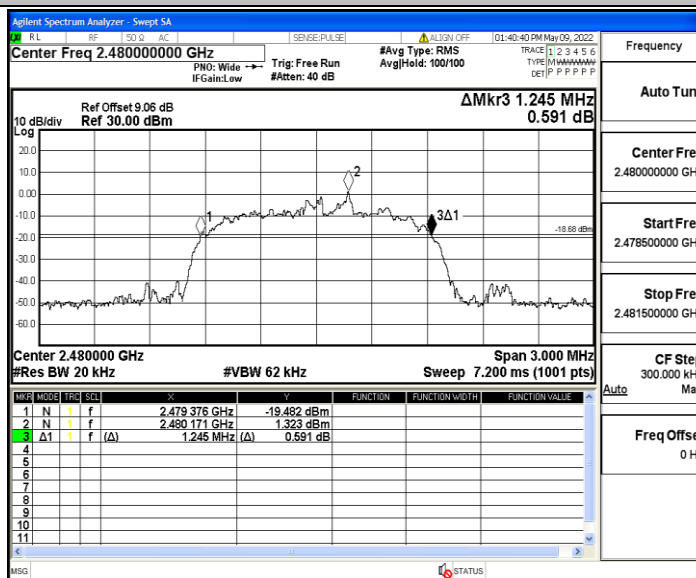
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



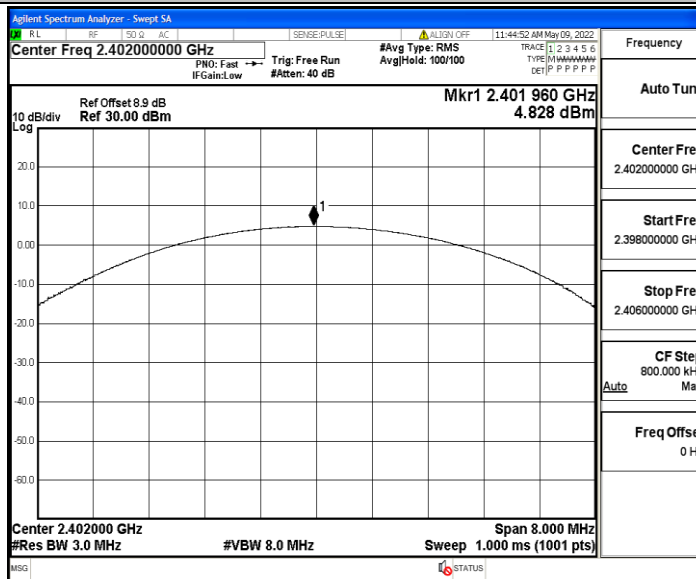
Appendix B: Maximum conducted output power

Test Result

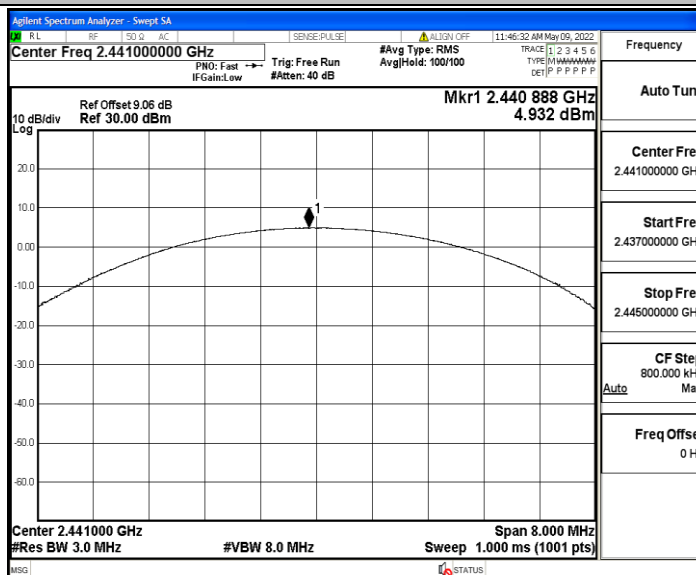
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	4.83	≤30.00	PASS
		2441	4.93	≤30.00	PASS
		2480	5.23	≤30.00	PASS
2DH5	Ant1	2402	4.8	≤20.97	PASS
		2441	4.8	≤20.97	PASS
		2480	5.02	≤20.97	PASS
3DH5	Ant1	2402	4.99	≤20.97	PASS
		2441	4.95	≤20.97	PASS
		2480	5.17	≤20.97	PASS

Test Graphs

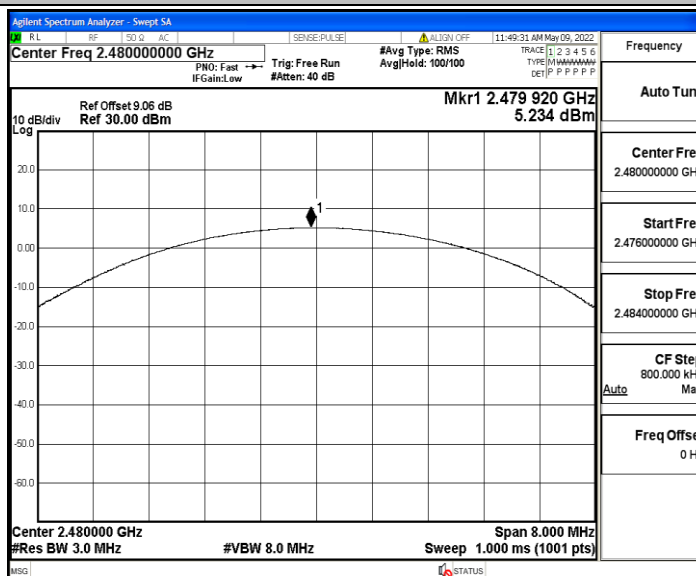
DH5_Ant1_2402



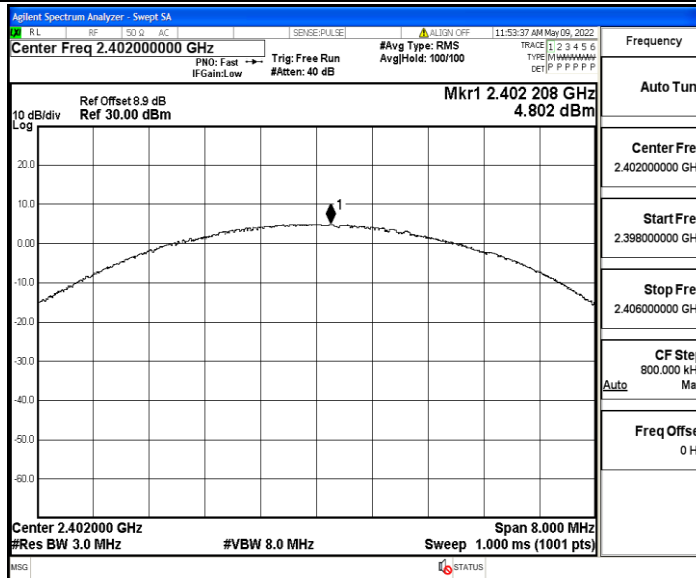
DH5_Ant1_2441



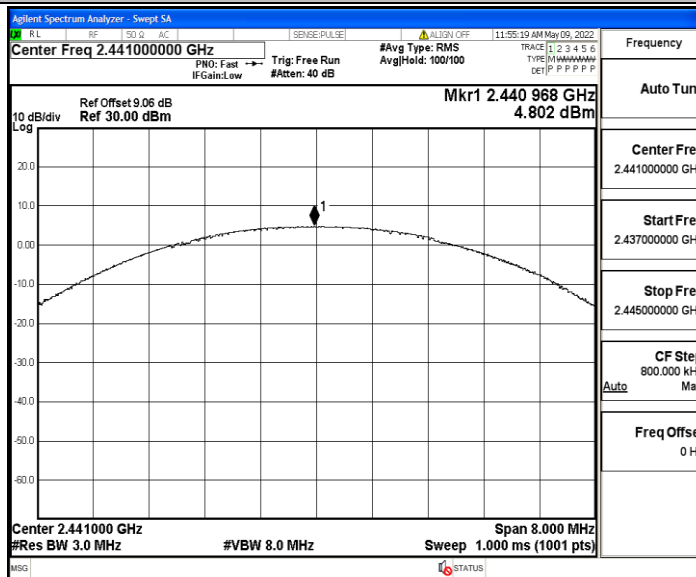
DH5_Ant1_2480



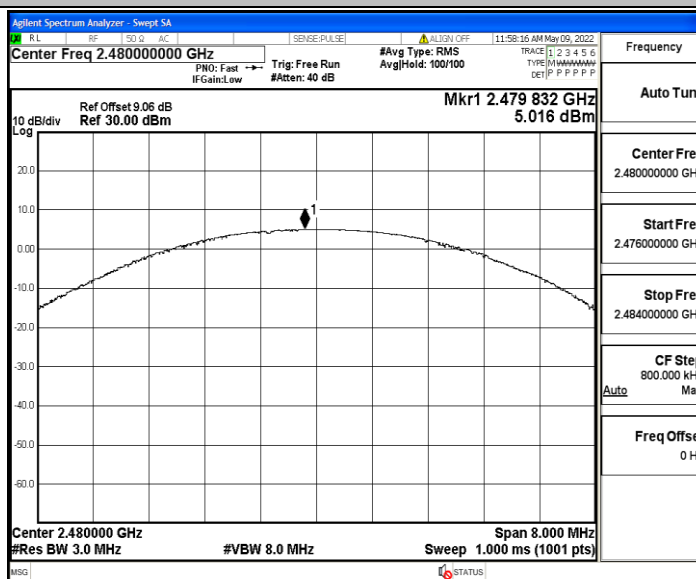
2DH5_Ant1_2402



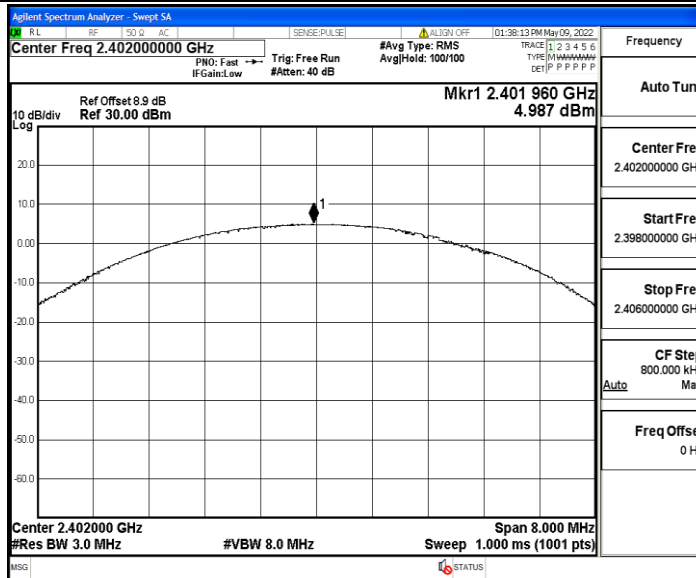
2DH5_Ant1_2441



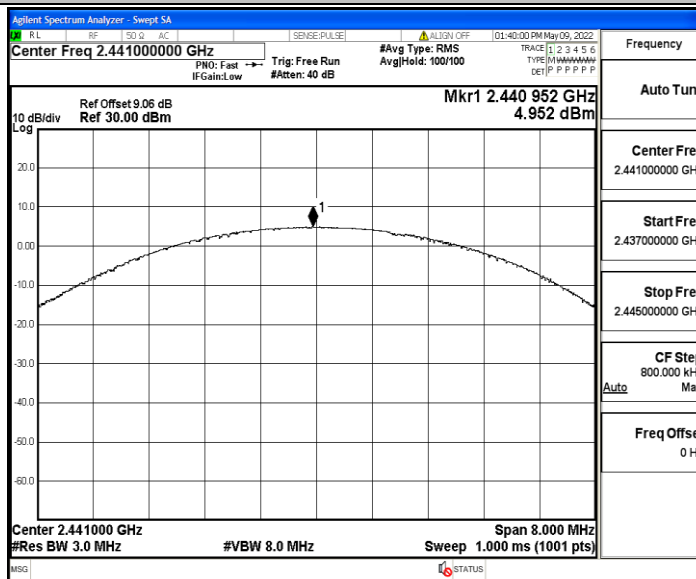
2DH5_Ant1_2480



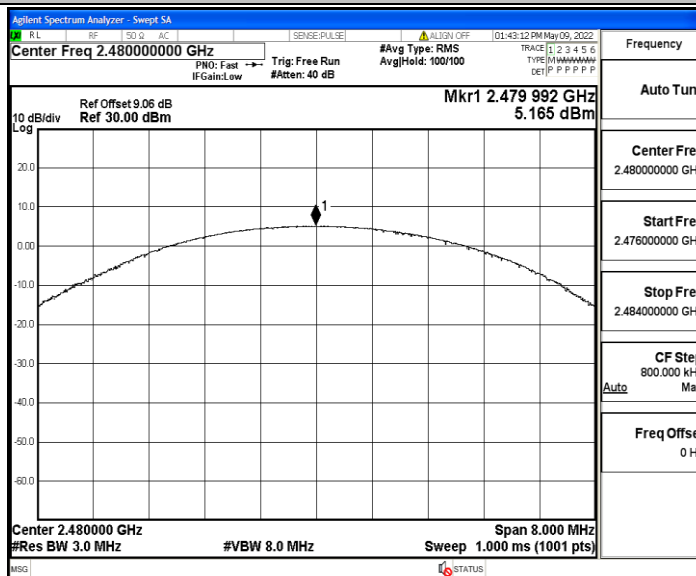
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



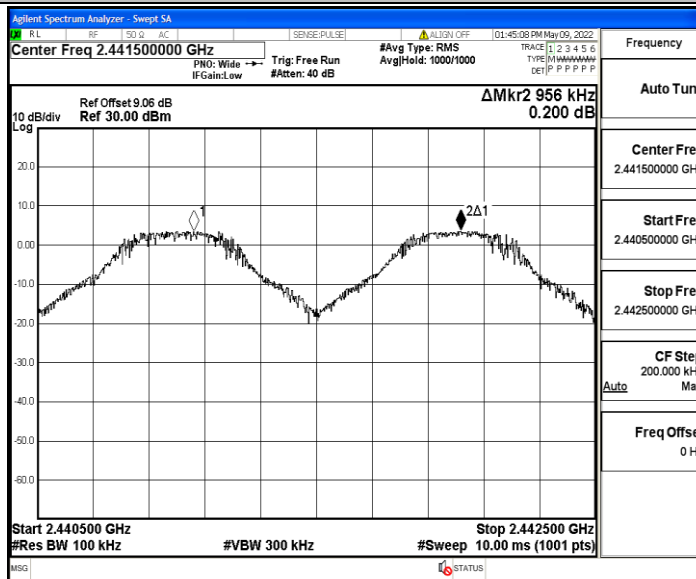
Appendix C: Carrier frequency separation

Test Result

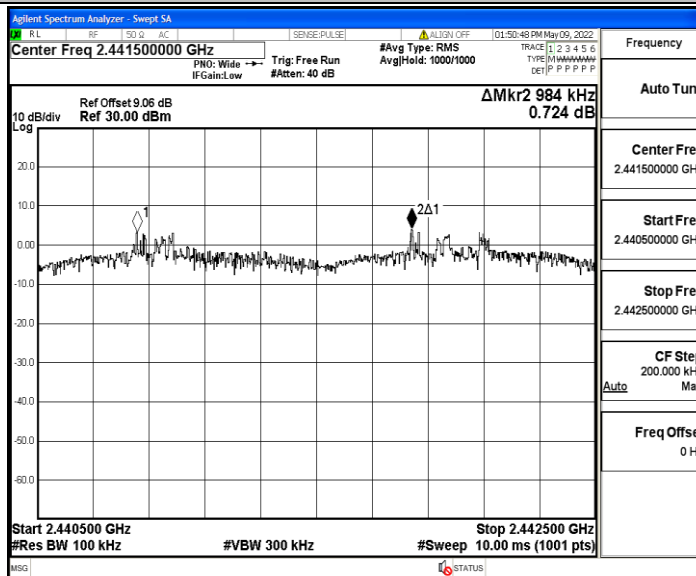
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.956	≥ 0.804	PASS
2DH5	Ant1	Hop	0.984	≥ 0.846	PASS
3DH5	Ant1	Hop	0.998	≥ 0.868	PASS

Test Graphs

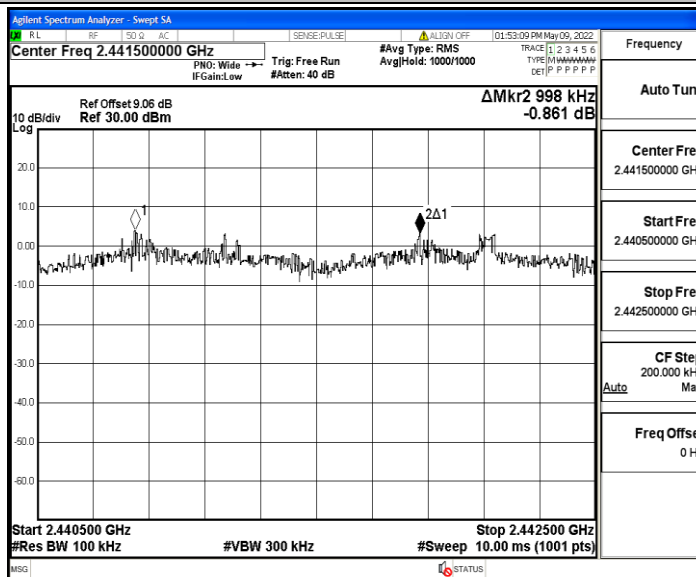
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



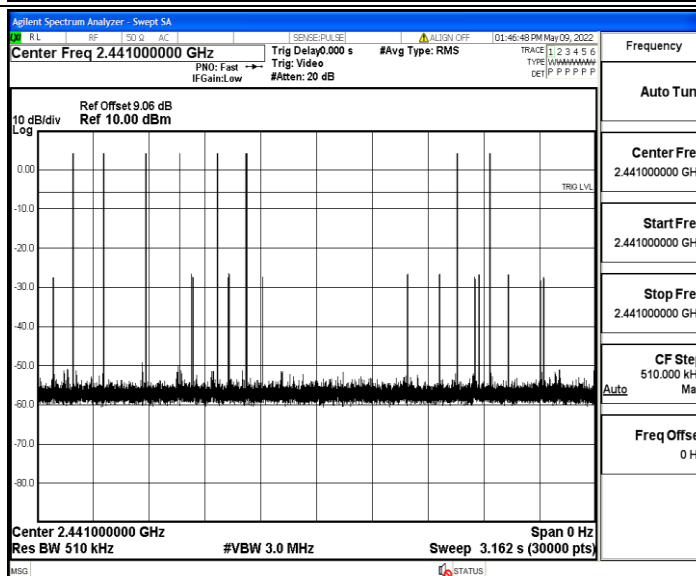
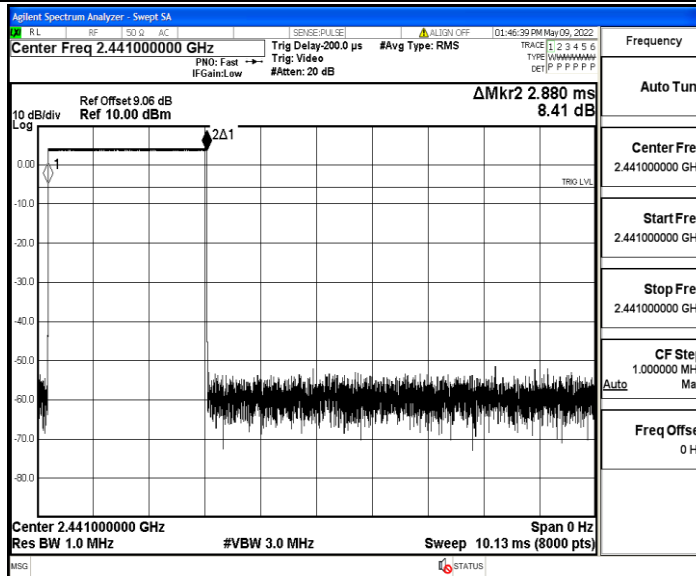
Appendix D: Time of occupancy

Test Result

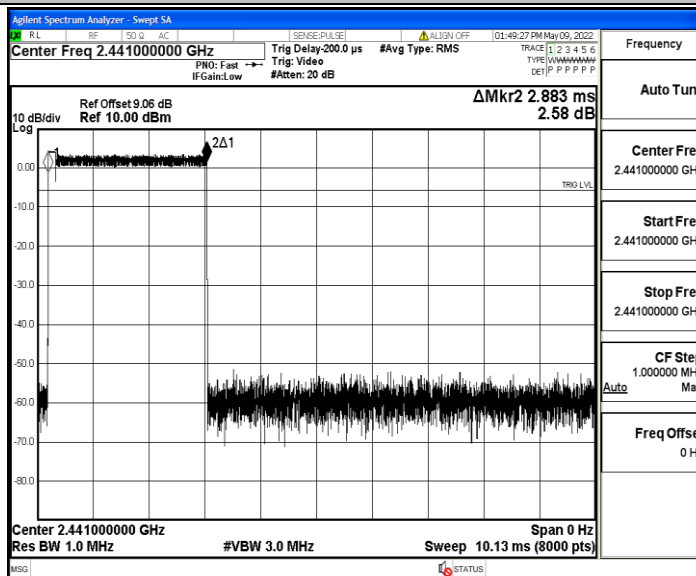
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
2DH5	Ant1	Hop	2.88	90	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.89	90	0.26	≤0.4	PASS

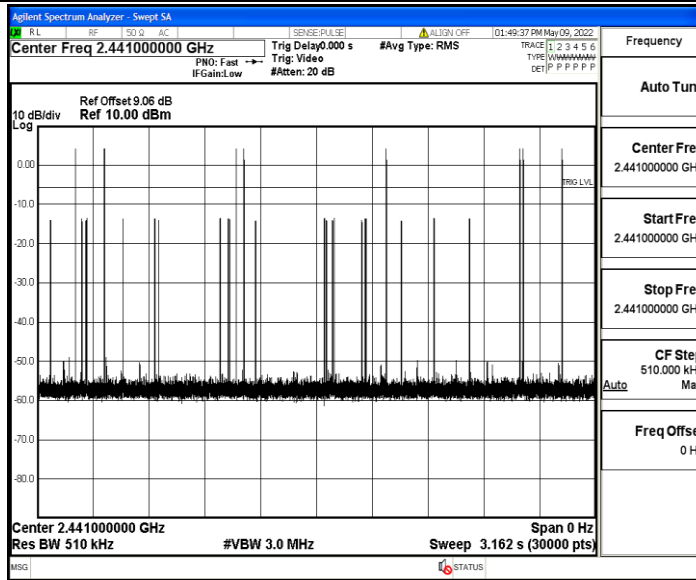
Test Graphs

DH5_Ant1_Hop

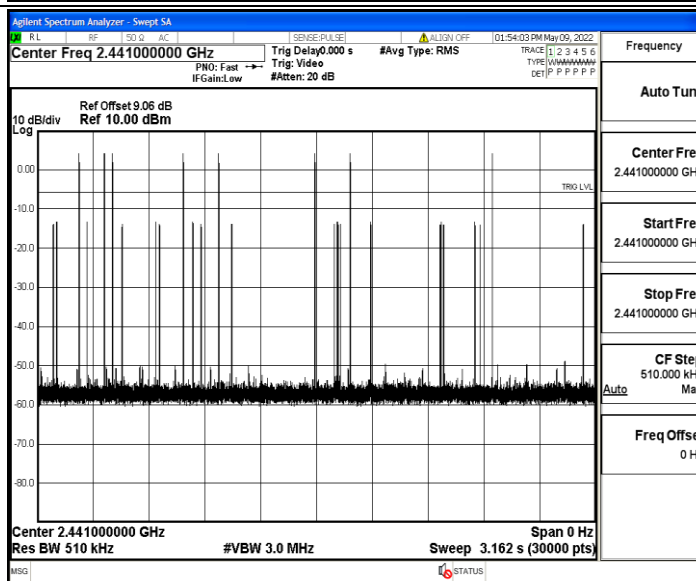
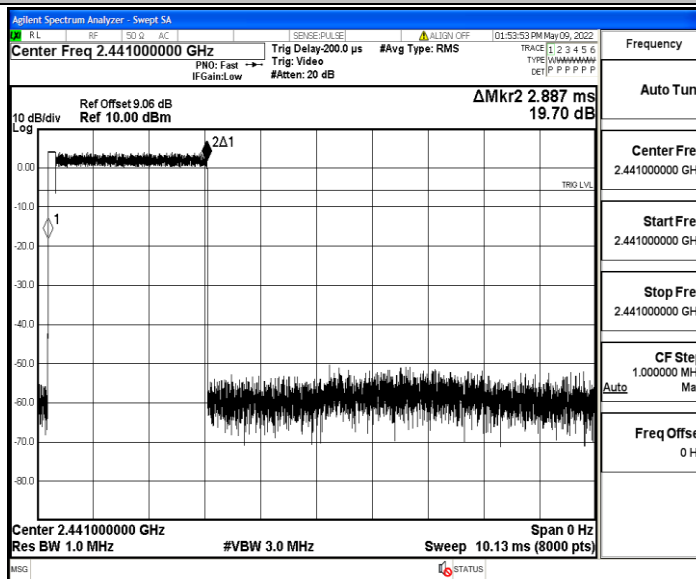


2DH5_Ant1_Hop





3DH5_Ant1_Hop



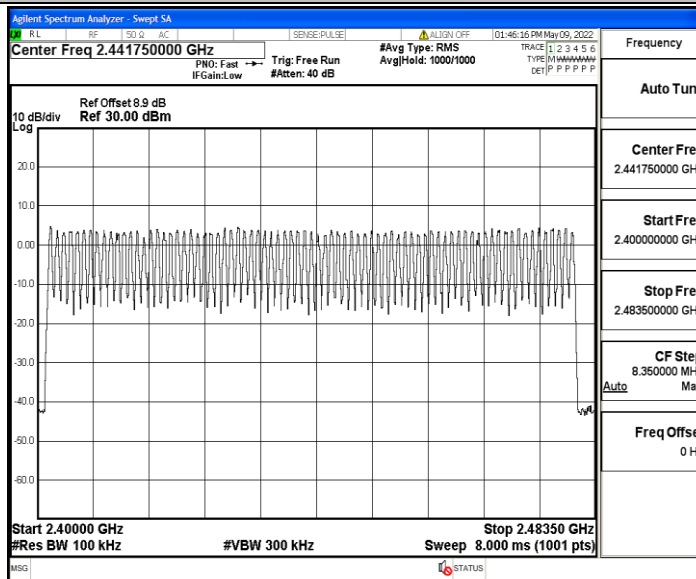
Appendix E: Number of hopping channels

Test Result

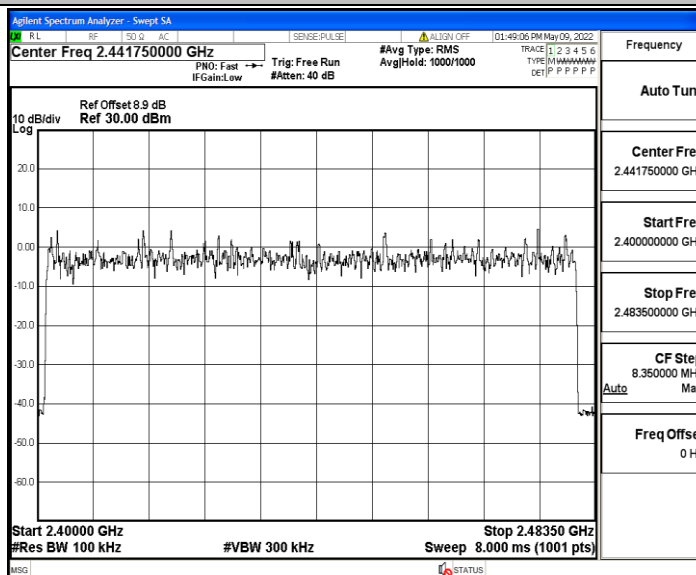
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

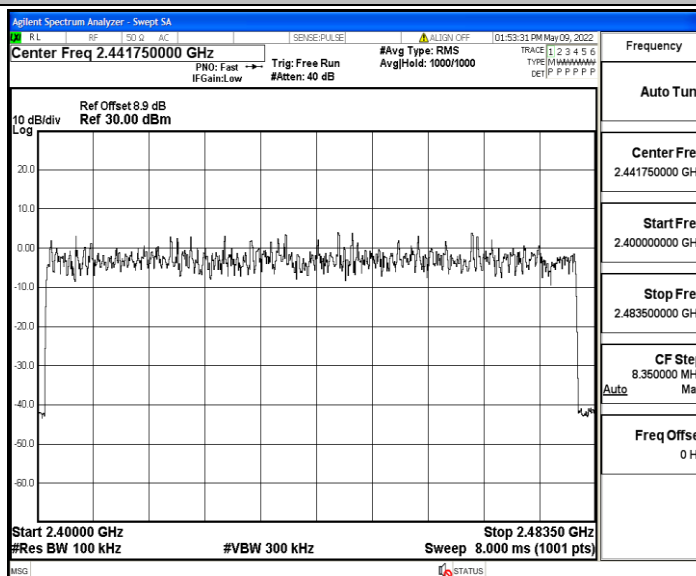
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



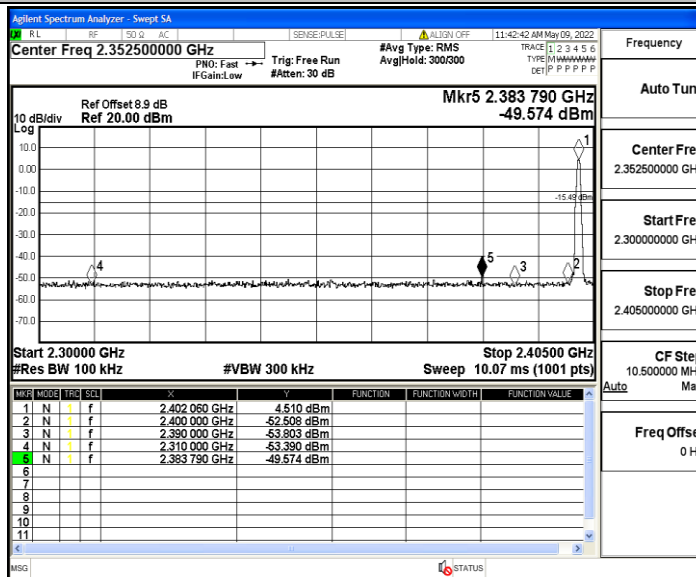
Appendix F: Band edge measurements

Test Result

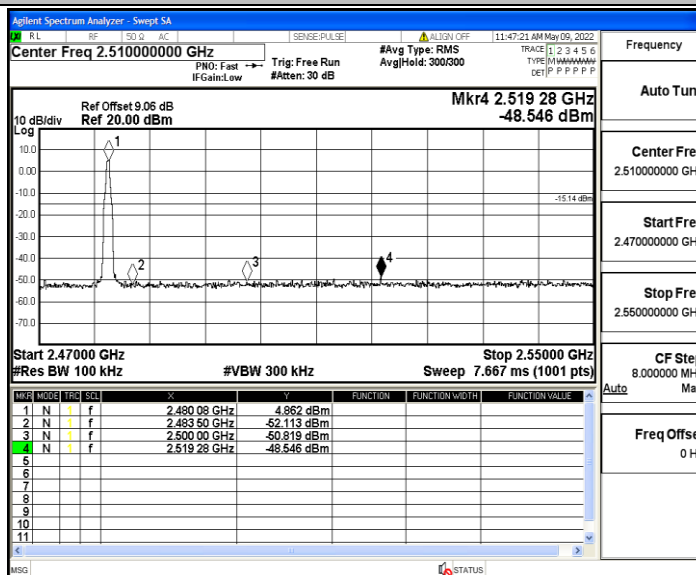
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.51	-49.57	≤ -15.49	PASS
		High	2480	4.86	-48.55	≤ -15.14	PASS
		Low	Hop_2402	3.23	-50.84	≤ -16.78	PASS
		High	Hop_2480	4.54	-50	≤ -15.46	PASS
2DH5	Ant1	Low	2402	2.37	-49.58	≤ -17.63	PASS
		High	2480	0.65	-49.1	≤ -19.35	PASS
		Low	Hop_2402	-1.32	-50.73	≤ -21.32	PASS
		High	Hop_2480	-0.97	-48.93	≤ -20.97	PASS
3DH5	Ant1	Low	2402	3.92	-50.39	≤ -16.08	PASS
		High	2480	4.94	-49.54	≤ -15.06	PASS
		Low	Hop_2402	1.72	-50.41	≤ -18.28	PASS
		High	Hop_2480	-0.49	-49	≤ -20.49	PASS

Test Graphs

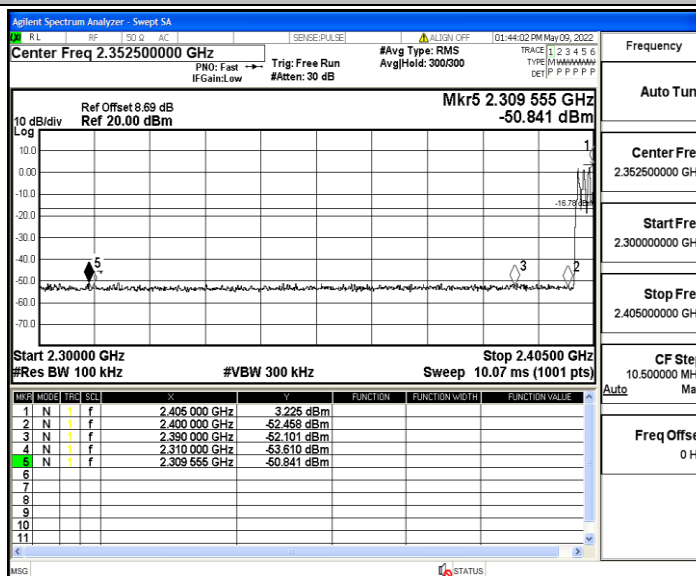
DH5_Ant1_Low_2402



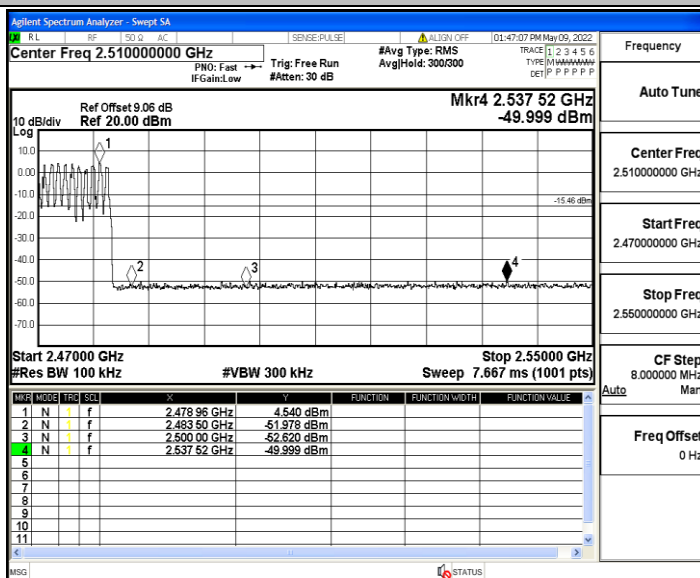
DH5_Ant1_High_2480



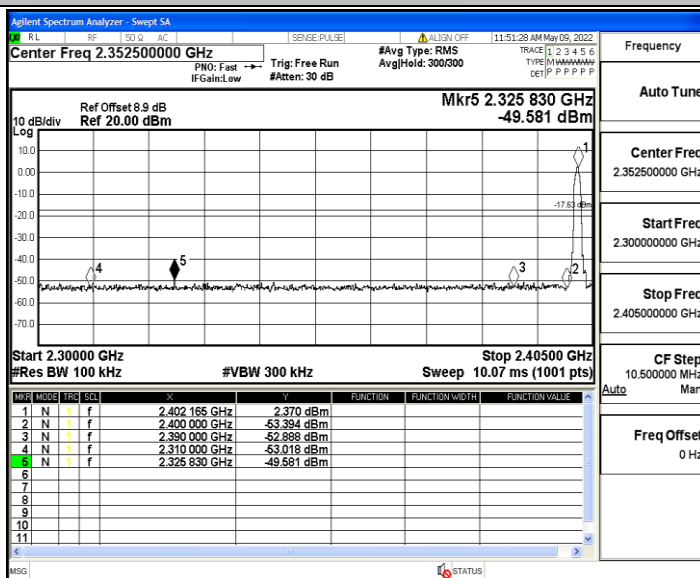
DH5_Ant1_Low_Hop_2402



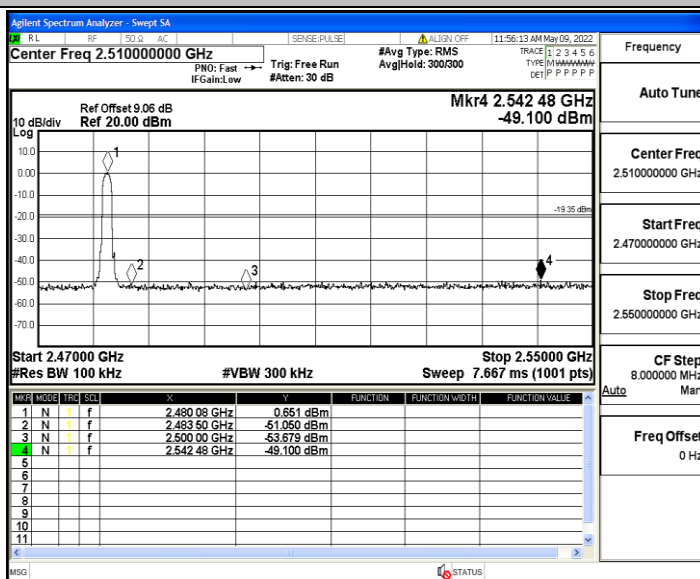
DH5_Ant1_High_Hop_2480



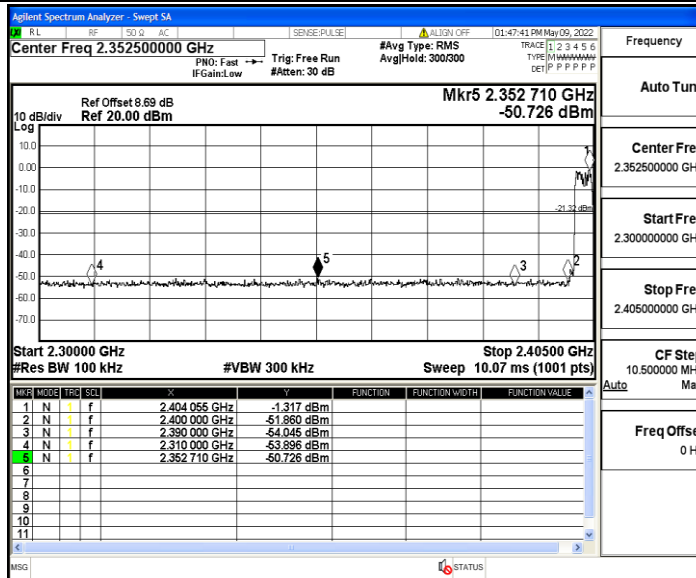
2DH5_Ant1_Low_2402



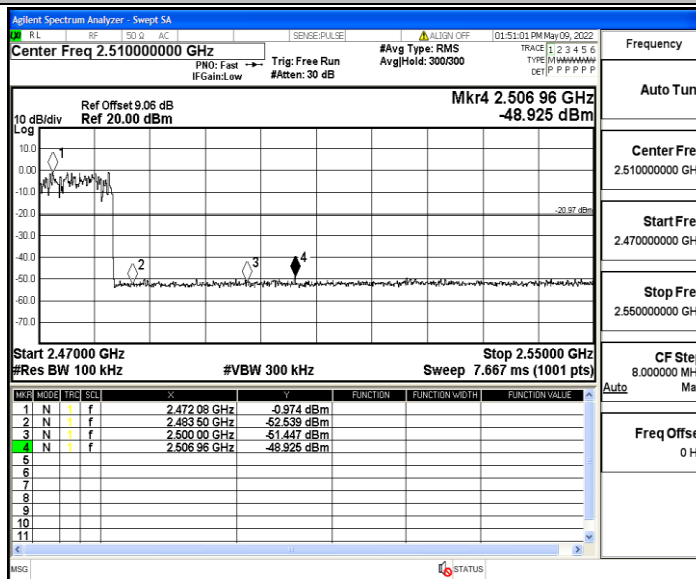
2DH5_Ant1_High_2480



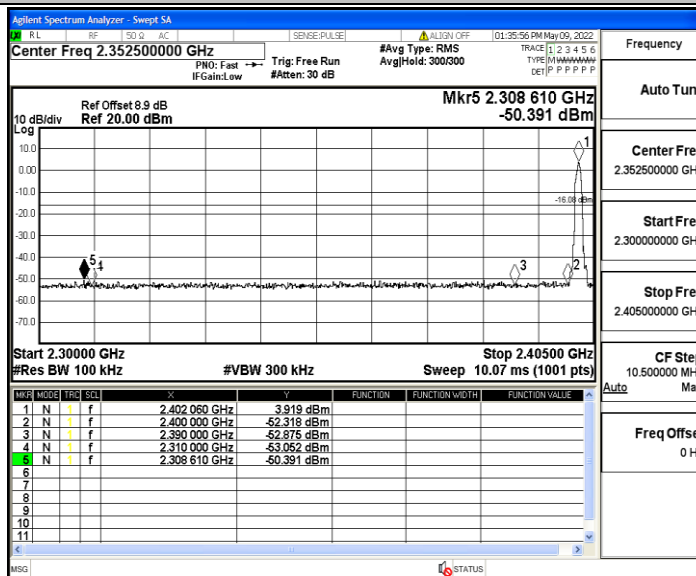
2DH5_Ant1_Low_Hop_2402



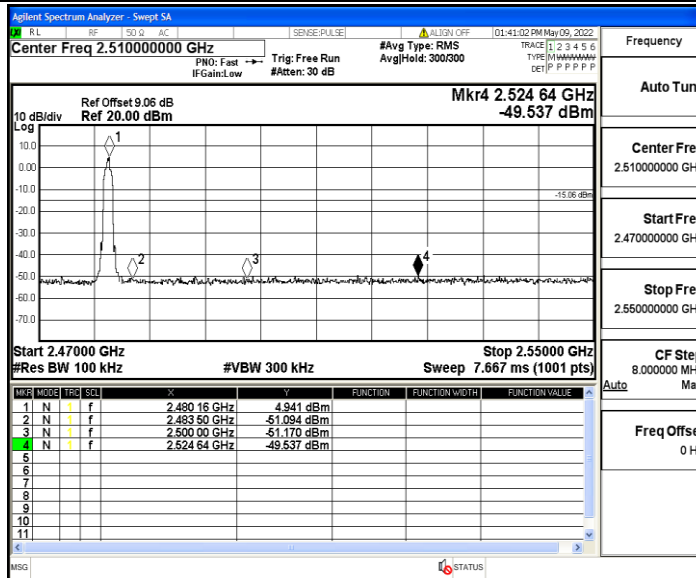
2DH5_Ant1_High_Hop_2480



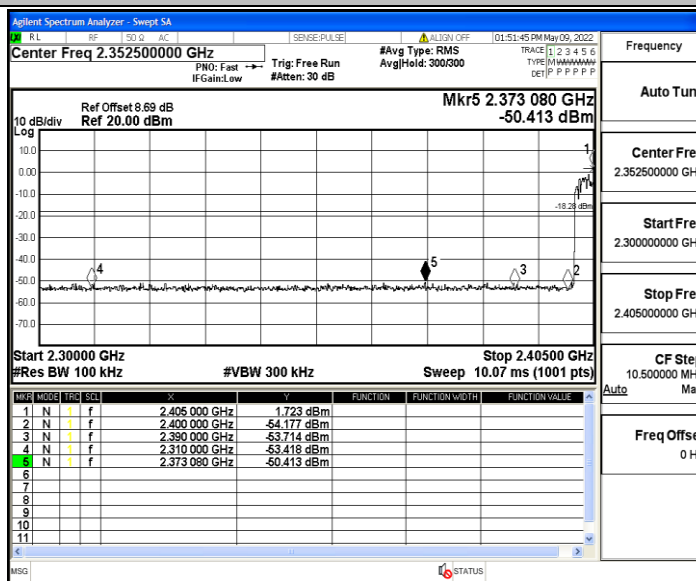
3DH5_Ant1_Low_2402



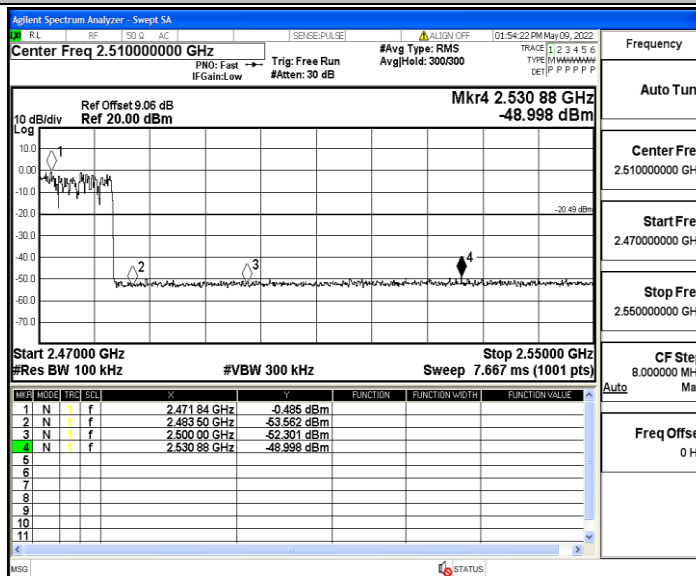
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



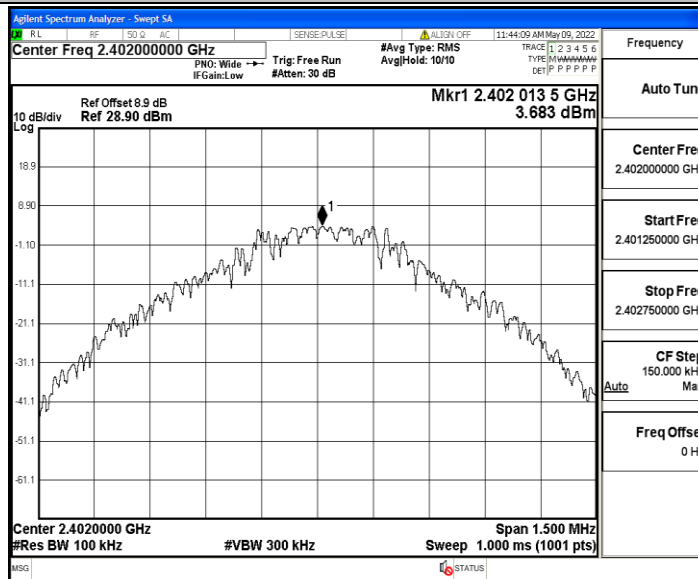
Appendix G: Conducted Spurious Emission

Test Result

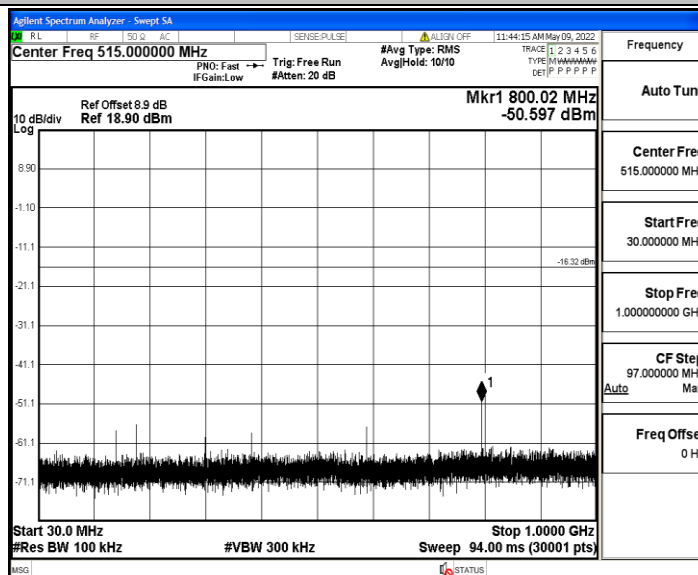
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.68	3.68	---	PASS
			30~1000	3.68	-50.6	≤-16.32	PASS
			1000~26500	3.68	-43.73	≤-16.32	PASS
		2441	Reference	3.91	3.91	---	PASS
			30~1000	3.91	-50.81	≤-16.09	PASS
			1000~26500	3.91	-47.31	≤-16.09	PASS
		2480	Reference	4.79	4.79	---	PASS
			30~1000	4.79	-50.71	≤-15.21	PASS
			1000~26500	4.79	-48.27	≤-15.21	PASS
2DH5	Ant1	2402	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-50.81	≤-16.19	PASS
			1000~26500	3.81	-49.79	≤-16.19	PASS
		2441	Reference	0.02	0.02	---	PASS
			30~1000	0.02	-50.57	≤-19.98	PASS
			1000~26500	0.02	-47.97	≤-19.98	PASS
		2480	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.34	-50.76	≤-20.34	PASS
			1000~26500	-0.34	-49.2	≤-20.34	PASS
3DH5	Ant1	2402	Reference	2.95	2.95	---	PASS
			30~1000	2.95	-49.95	≤-17.05	PASS
			1000~26500	2.95	-45.87	≤-17.05	PASS
		2441	Reference	0.31	0.31	---	PASS
			30~1000	0.31	-50.58	≤-19.69	PASS
			1000~26500	0.31	-49.21	≤-19.69	PASS
		2480	Reference	2.48	2.48	---	PASS
			30~1000	2.48	-50.84	≤-17.52	PASS
			1000~26500	2.48	-50.65	≤-17.52	PASS

Test Graphs

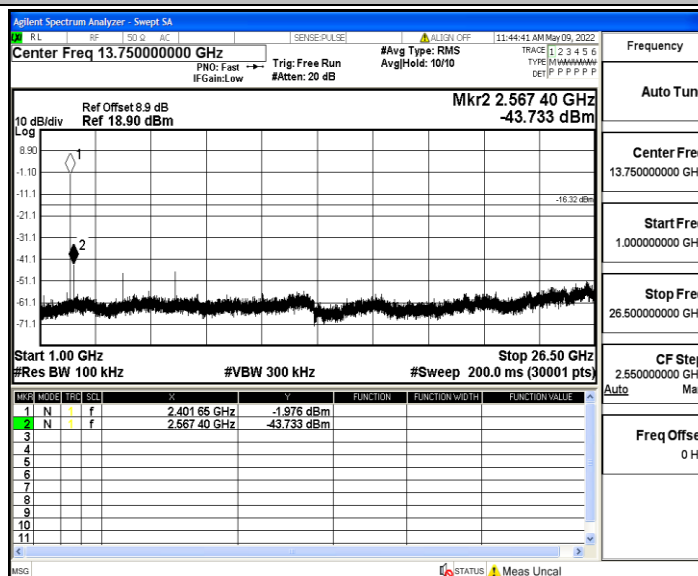
DH5_Ant1_2402_0~Reference



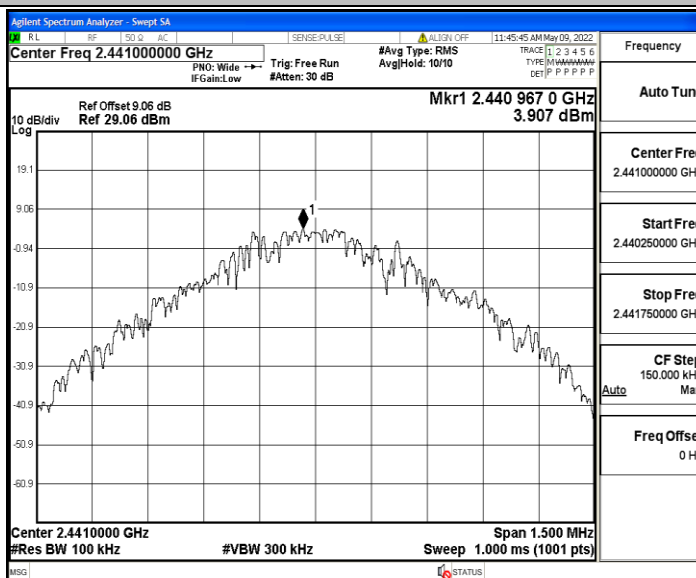
DH5_Ant1_2402_30~1000



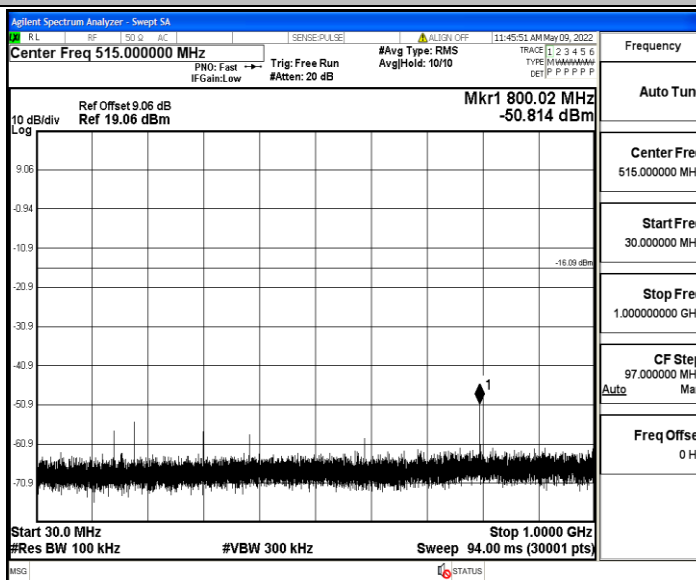
DH5_Ant1_2402_1000~26500



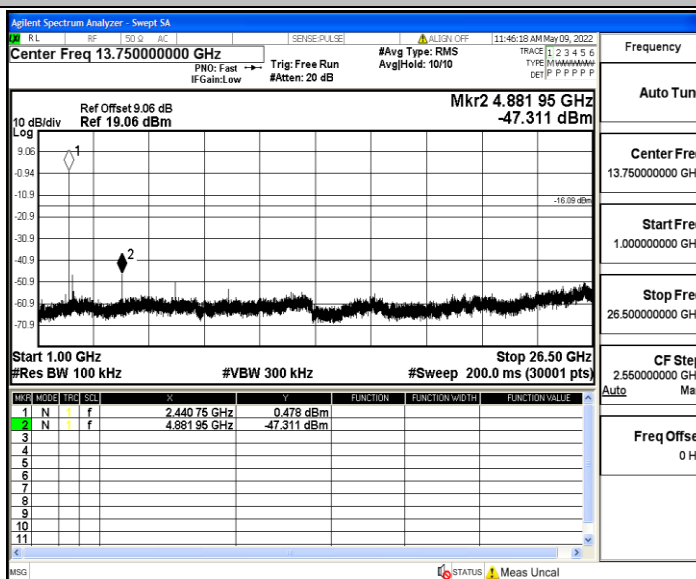
DH5_Ant1_2441_0~Reference



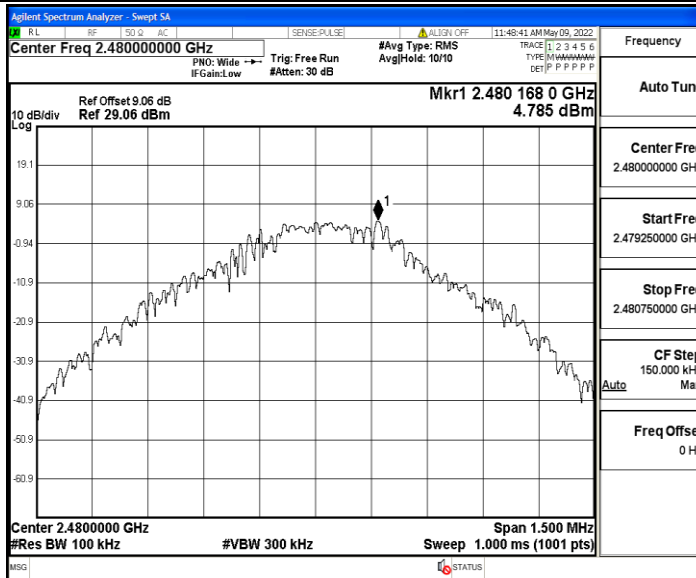
DH5_Ant1_2441_30~1000



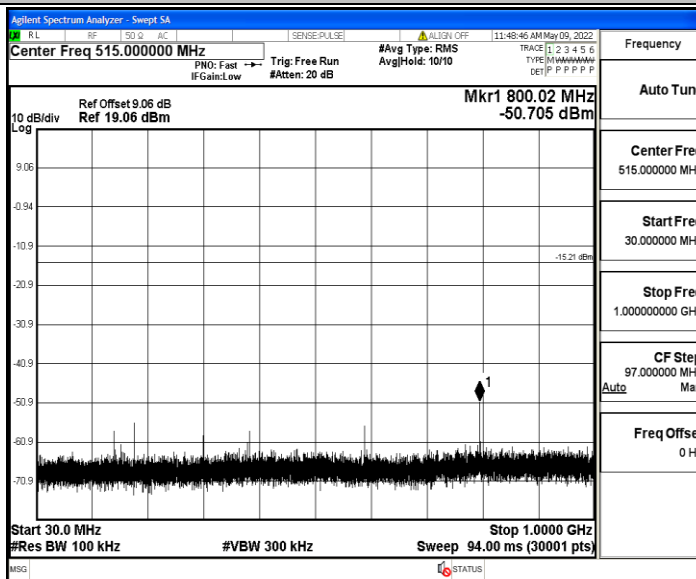
DH5_Ant1_2441_1000~26500



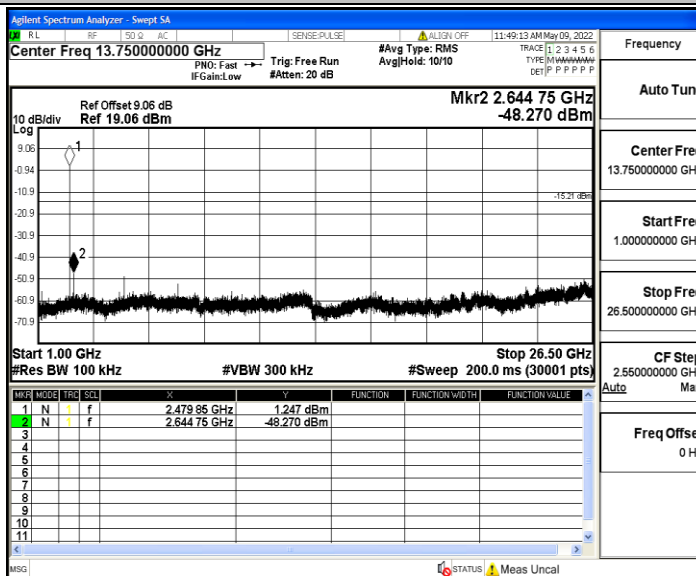
DH5_Ant1_2480_0~Reference



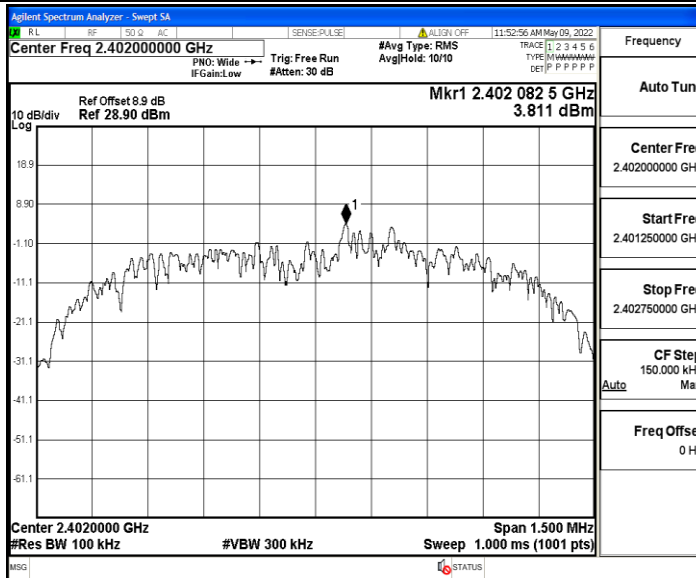
DH5_Ant1_2480_30~1000



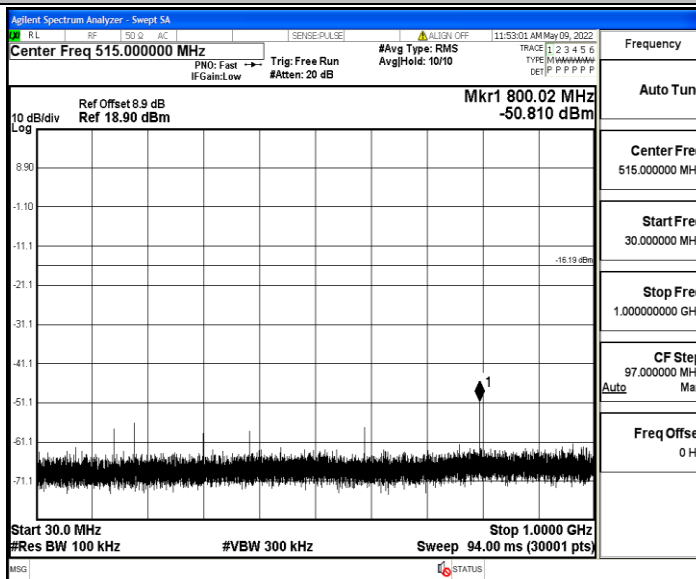
DH5_Ant1_2480_1000~26500



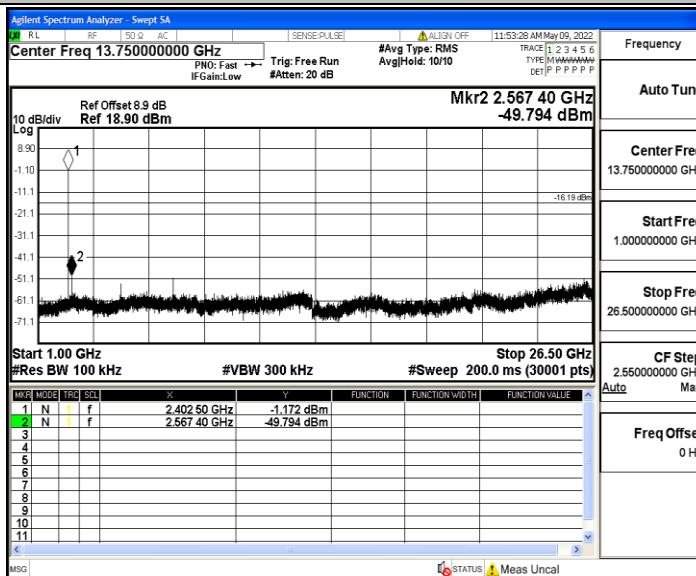
2DH5_Ant1_2402_0~Reference



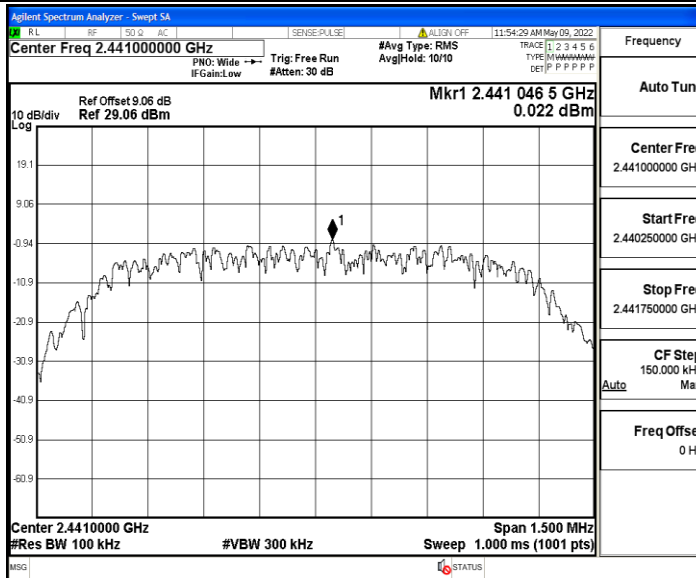
2DH5_Ant1_2402_30~1000



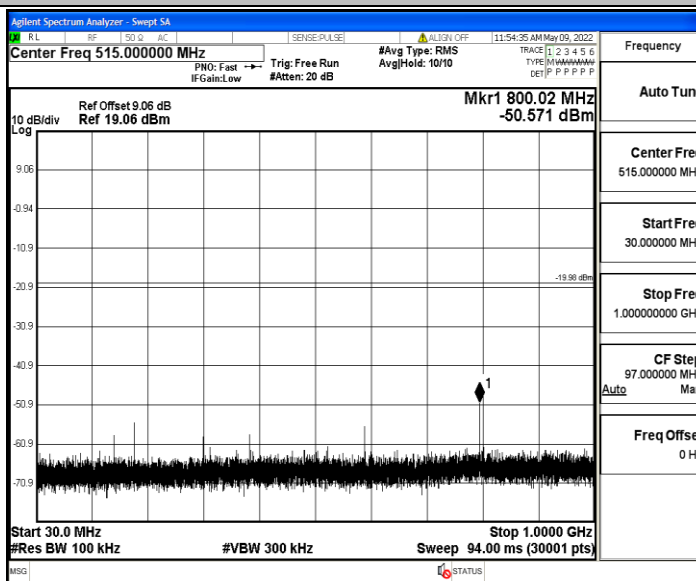
2DH5_Ant1_2402_1000~26500



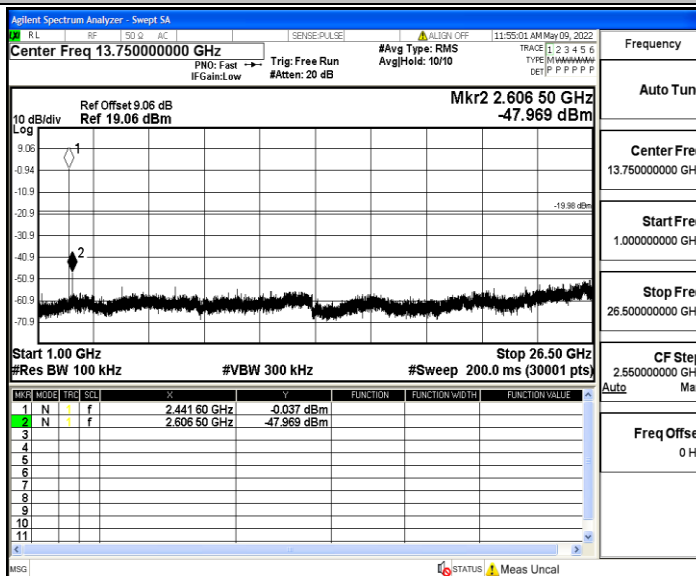
2DH5_Ant1_2441_0~Reference



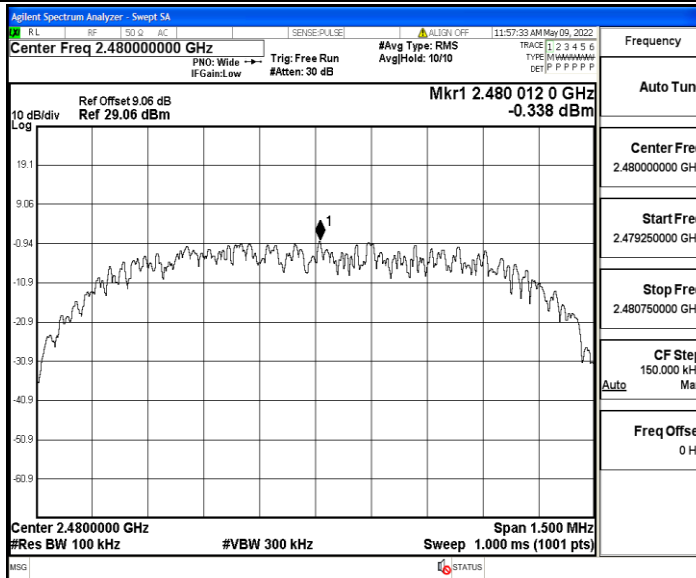
2DH5_Ant1_2441_30~1000



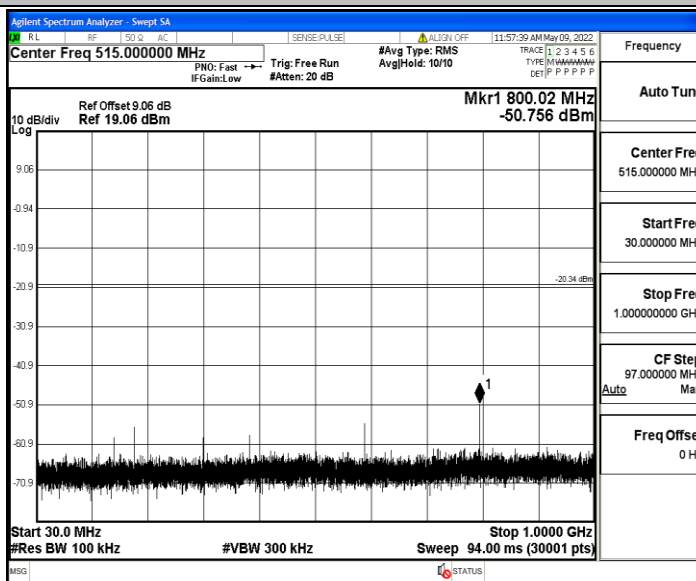
2DH5_Ant1_2441_1000~26500



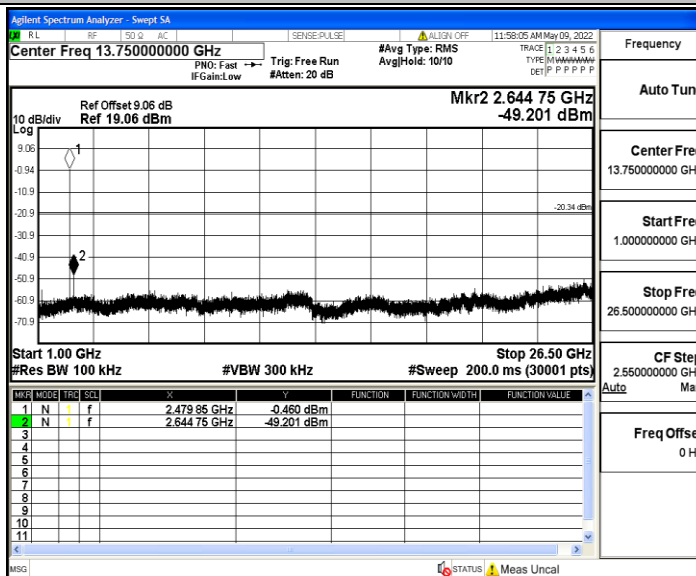
2DH5_Ant1_2480_0~Reference



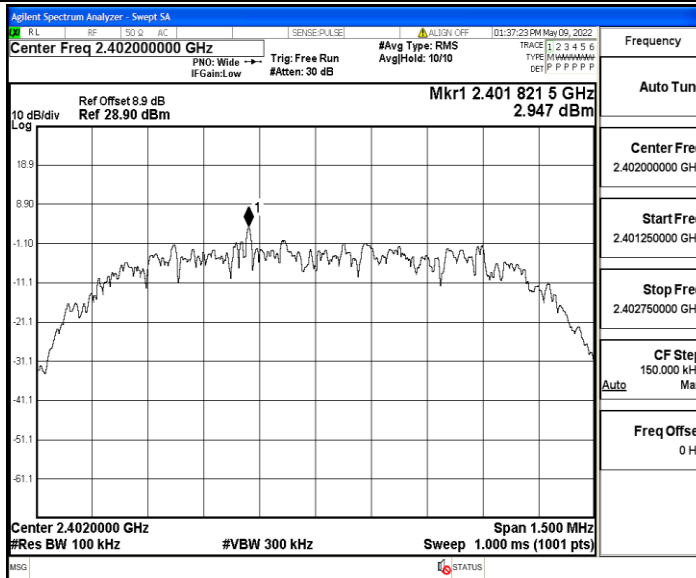
2DH5_Ant1_2480_30~1000



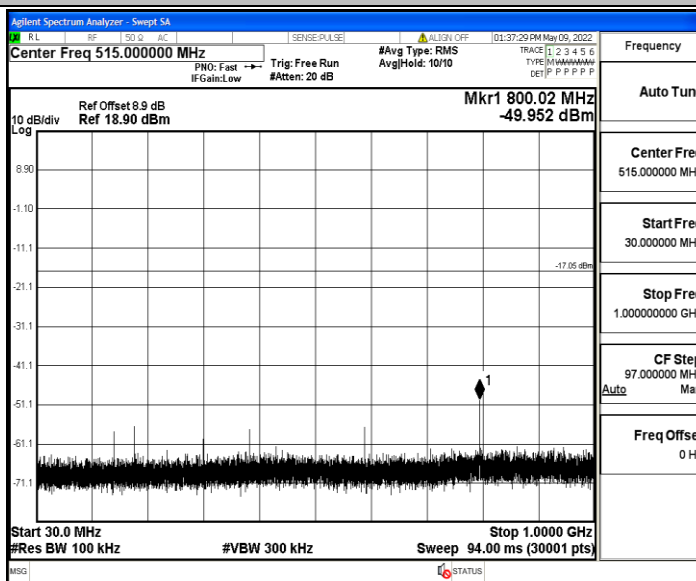
2DH5_Ant1_2480_1000~26500



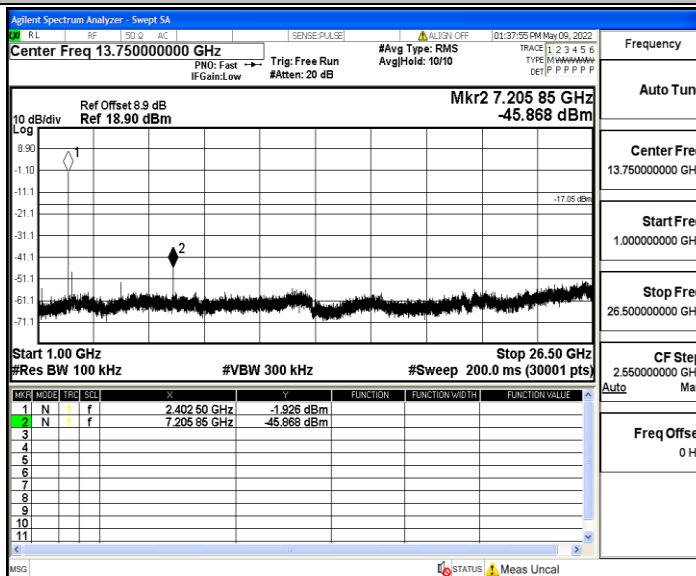
3DH5_Ant1_2402_0~Reference



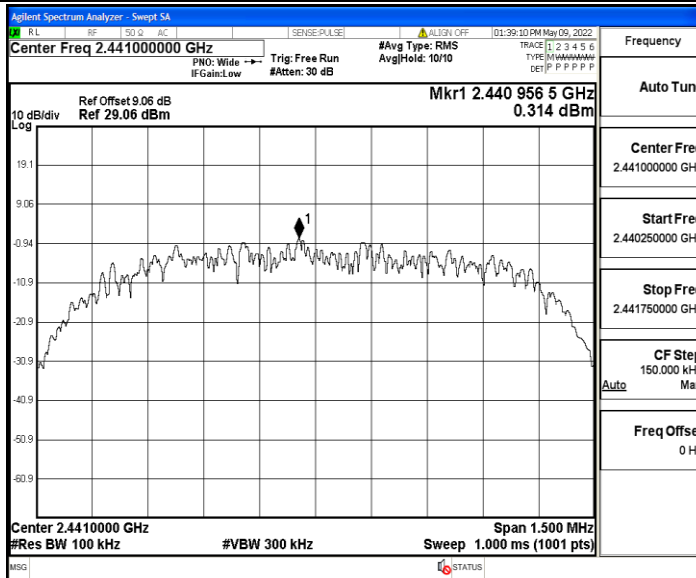
3DH5_Ant1_2402_30~1000



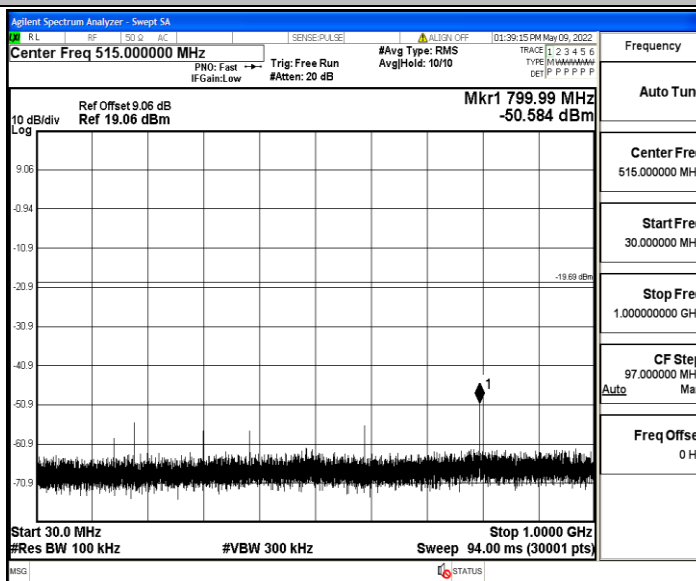
3DH5_Ant1_2402_1000~26500



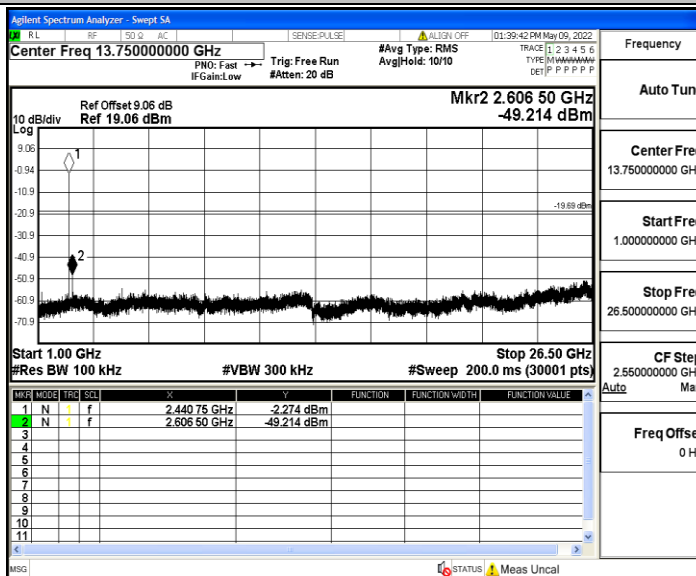
3DH5_Ant1_2441_0~Reference



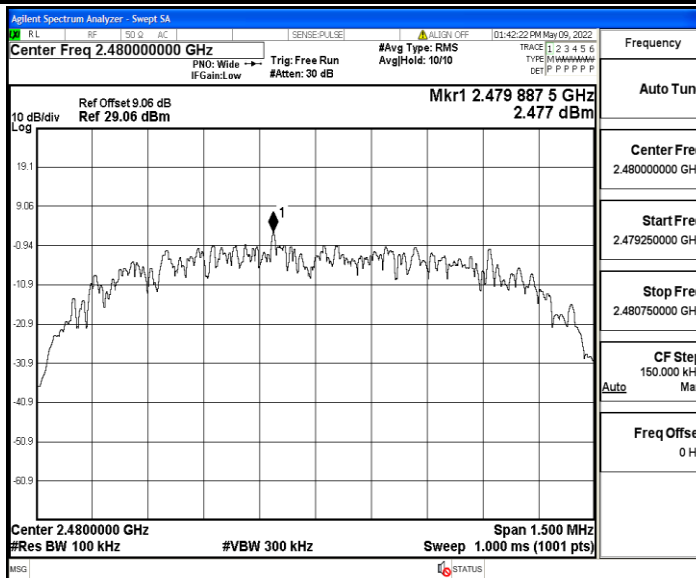
3DH5_Ant1_2441_30~1000



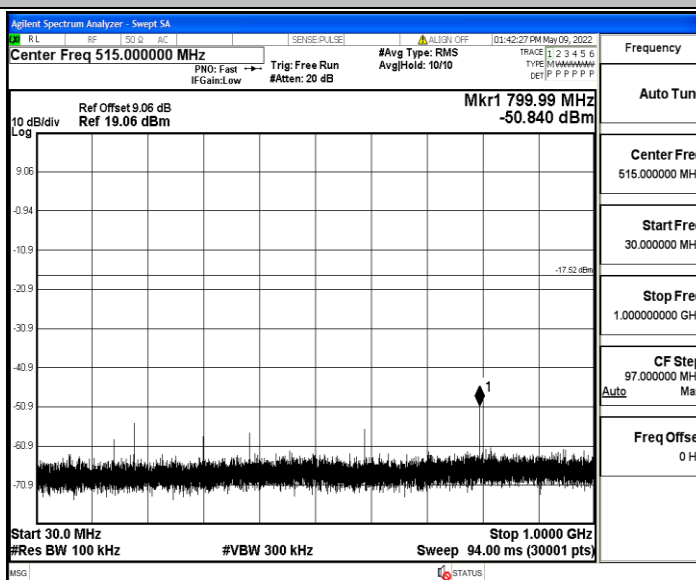
3DH5_Ant1_2441_1000~26500



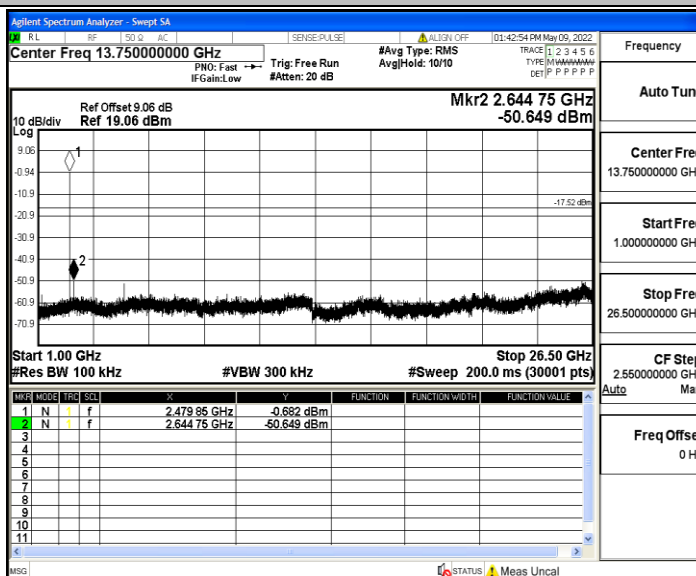
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



Appendix H: Emissions in Restricted Bands

Test Result

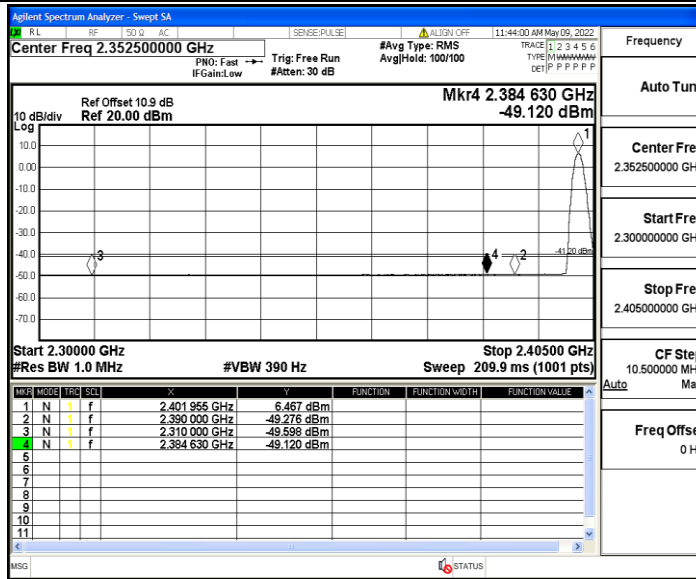
TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.6	≤-41.20	PASS
				AV	2384.630	-49.12	≤-41.20	PASS
				AV	2390.000	-49.28	≤-41.20	PASS
				Peak	2310.000	-41.54	≤-21.20	PASS
				Peak	2384.840	-39.02	≤-21.20	PASS
				Peak	2390.000	-42.27	≤-21.20	PASS
		High	2480	AV	2483.500	-47.65	≤-41.20	PASS
				AV	2483.520	-47.65	≤-41.20	PASS
				AV	2500.000	-48.55	≤-41.20	PASS
				Peak	2483.500	-41.08	≤-21.20	PASS
				Peak	2492.640	-38.94	≤-21.20	PASS
				Peak	2500.000	-41.48	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.5	≤-41.20	PASS
				AV	2389.880	-49.16	≤-41.20	PASS
				AV	2390.000	-49.28	≤-41.20	PASS
				Peak	2310.000	-41.91	≤-21.20	PASS
				Peak	2362.790	-39.55	≤-21.20	PASS
				Peak	2390.000	-42.81	≤-21.20	PASS
		High	2480	AV	2483.500	-47.7	≤-41.20	PASS
				AV	2483.520	-47.7	≤-41.20	PASS
				AV	2500.000	-48.66	≤-41.20	PASS
				Peak	2483.500	-42.96	≤-21.20	PASS
				Peak	2499.440	-39.23	≤-21.20	PASS
				Peak	2500.000	-40.27	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.55	≤-41.20	PASS
				AV	2387.360	-49.16	≤-41.20	PASS
				AV	2390.000	-49.33	≤-41.20	PASS
				Peak	2310.000	-41.82	≤-21.20	PASS
				Peak	2356.070	-38.47	≤-21.20	PASS
				Peak	2390.000	-42.8	≤-21.20	PASS
		High	2480	AV	2483.500	-47.78	≤-41.20	PASS
				AV	2483.520	-47.78	≤-41.20	PASS
				AV	2500.000	-48.51	≤-41.20	PASS
				Peak	2483.500	-40.5	≤-21.20	PASS
				Peak	2488.240	-38.34	≤-21.20	PASS
				Peak	2500.000	-39.6	≤-21.20	PASS

Note:

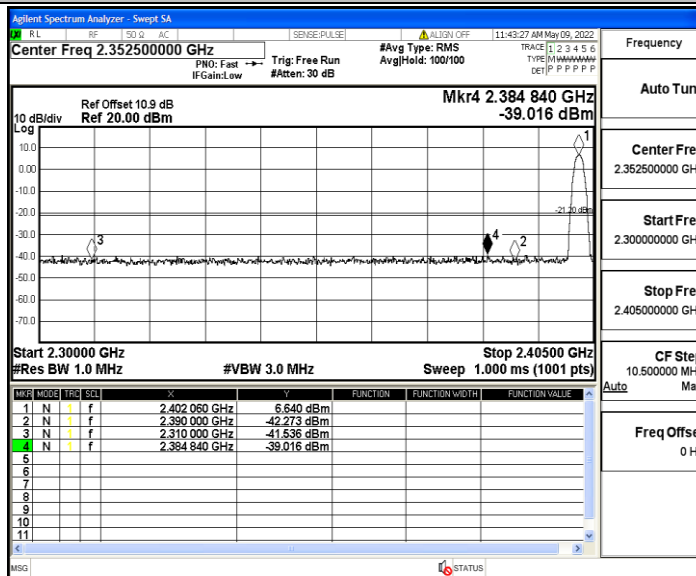
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

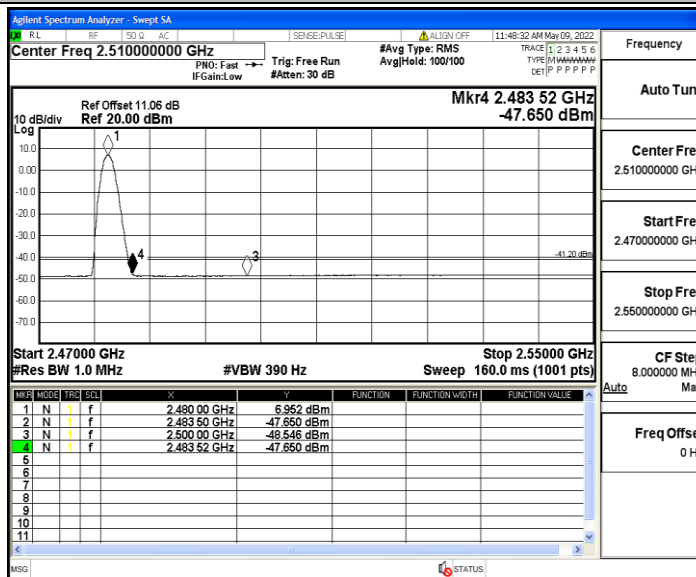
DH5_Ant1_Low_2402_AV



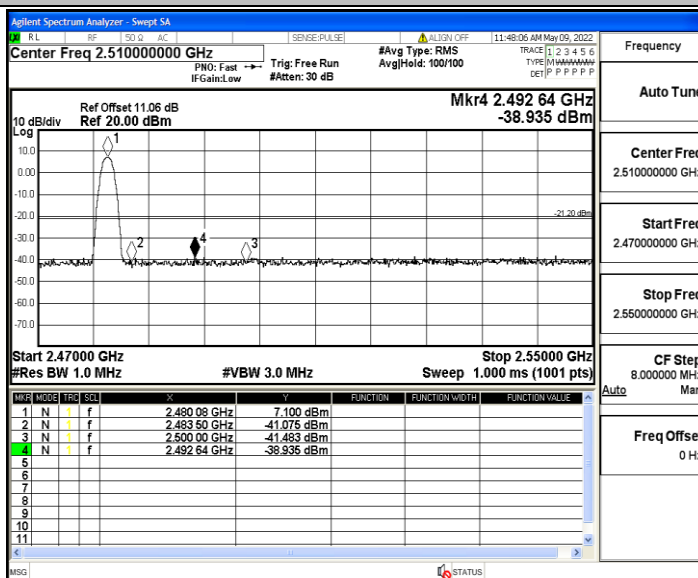
DH5_Ant1_Low_2402_Peak



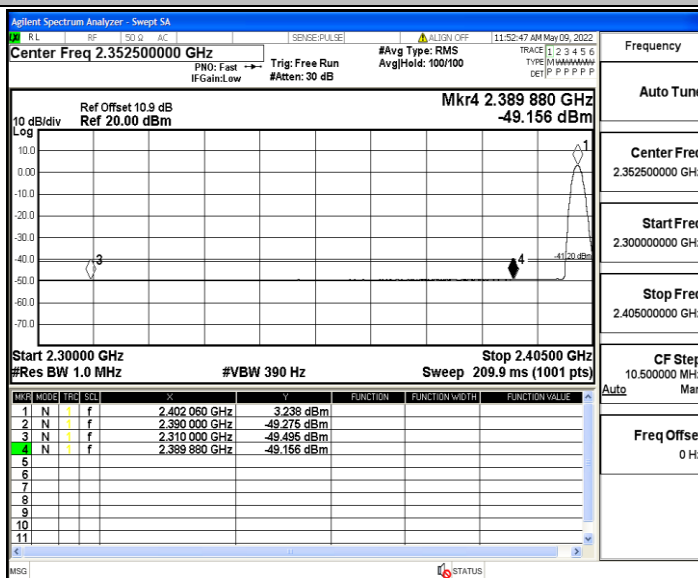
DH5_Ant1_High_2480_AV



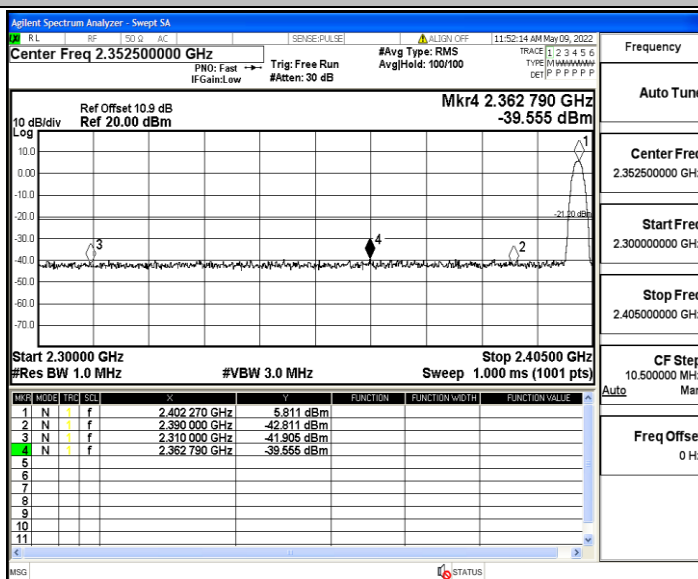
DH5_Ant1_High_2480_Peak



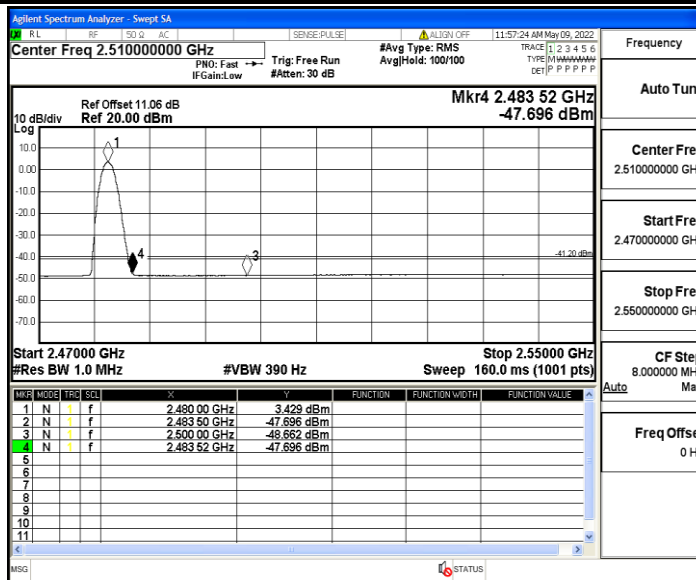
2DH5_Ant1_Low_2402_AV



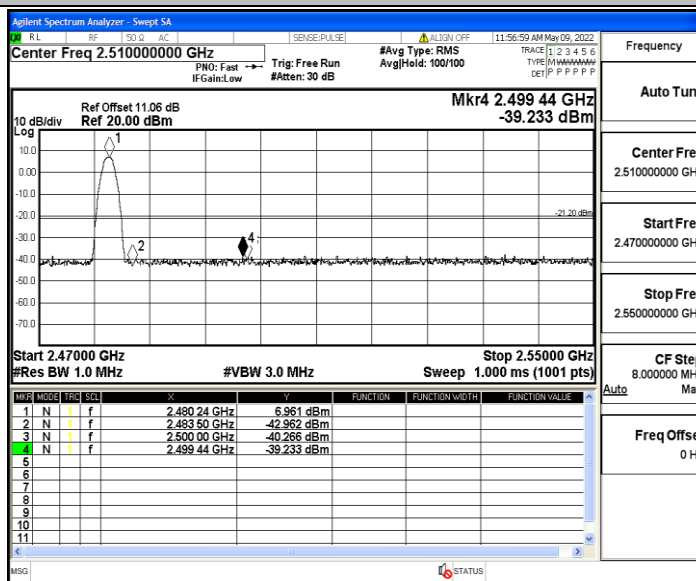
2DH5_Ant1_Low_2402_Peak



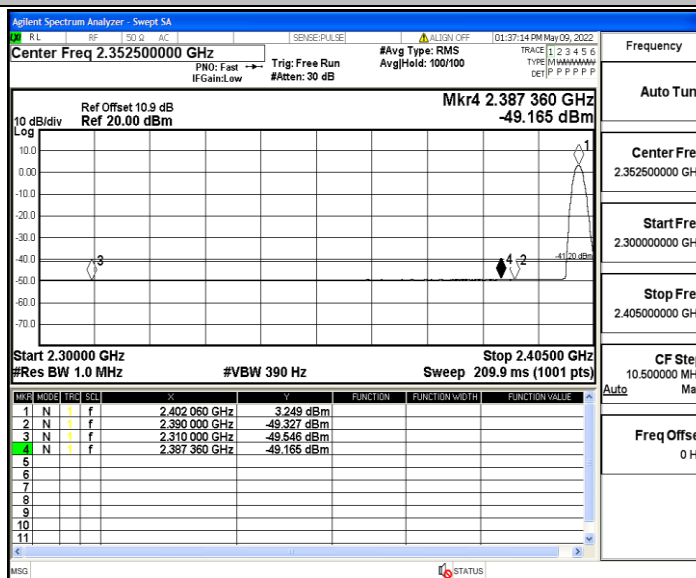
2DH5_Ant1_High_2480_AV



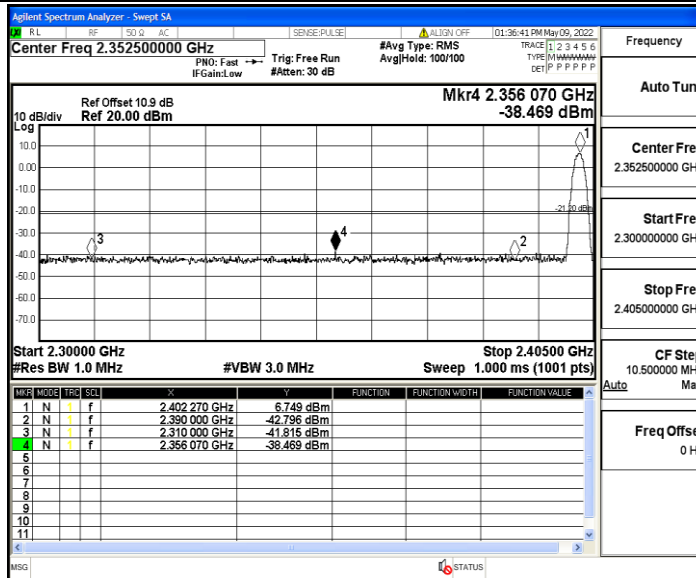
2DH5_Ant1_High_2480_Peak



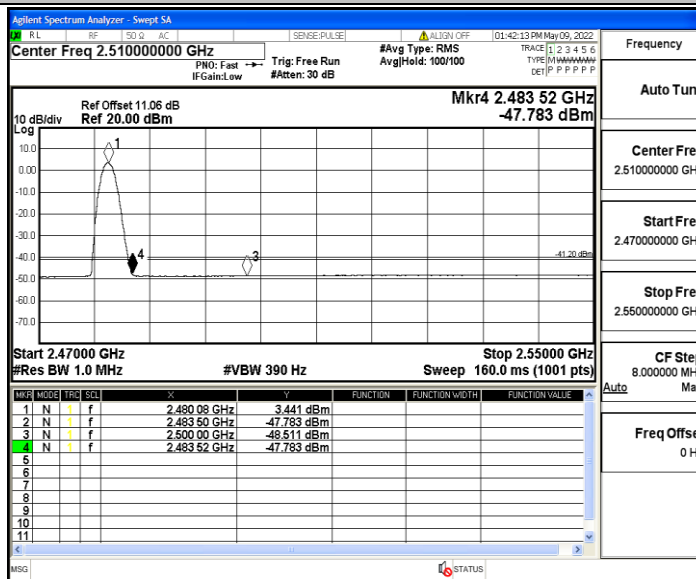
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

