

Appendix A

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

Product Name: Feature phone

Trade Mark: Sunelan

Test Model: S3

FCC ID: 2A2AJ-S3

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

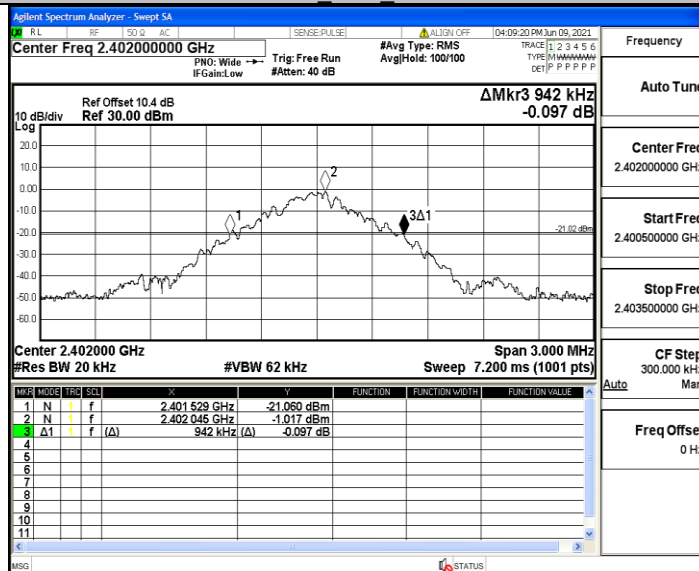
Appendix A: 20dB Emission Bandwidth

Test Result

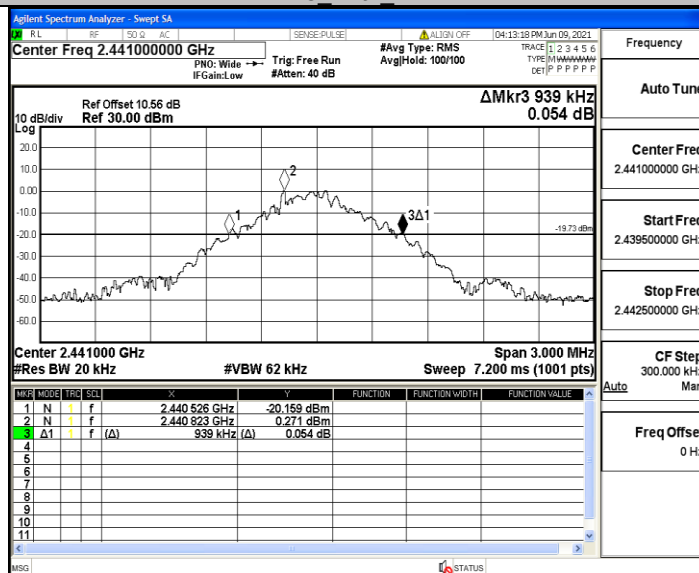
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.529	2402.471	---	PASS
		2441	0.939	2440.526	2441.465	---	PASS
		2480	0.930	2479.535	2480.465	---	PASS
2DH5	Ant1	2402	1.284	2401.352	2402.636	---	PASS
		2441	1.320	2440.328	2441.648	---	PASS
		2480	1.275	2479.346	2480.621	---	PASS
3DH5	Ant1	2402	1.296	2401.337	2402.633	---	PASS
		2441	1.293	2440.337	2441.630	---	PASS
		2480	1.278	2479.343	2480.621	---	PASS

Test Graphs

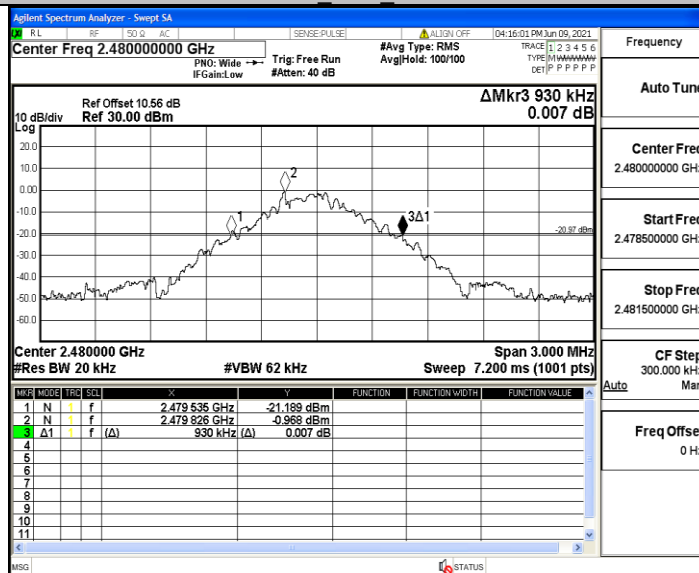
DH5_Ant1_2402



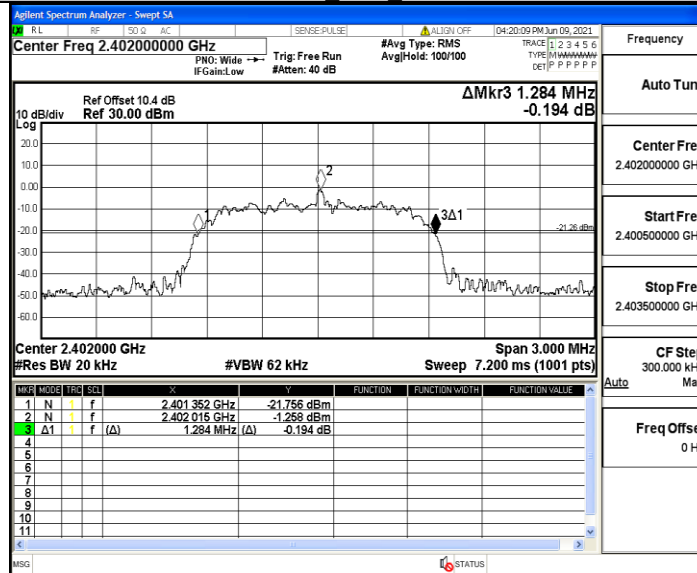
DH5_Ant1_2441



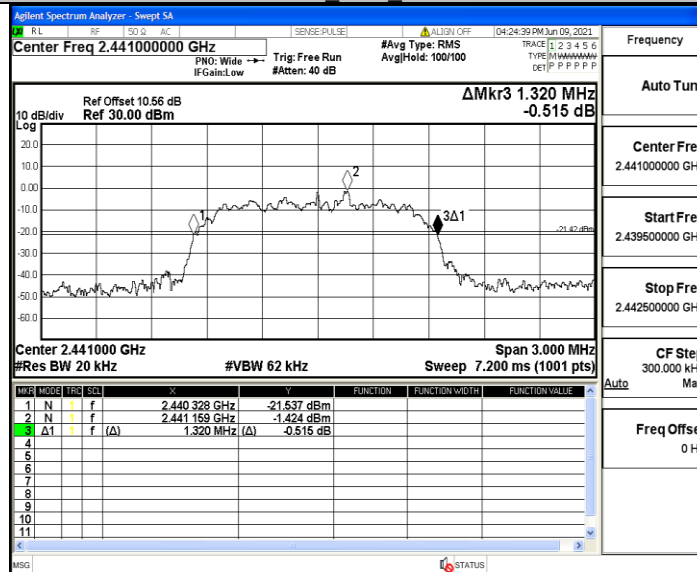
DH5_Ant1_2480



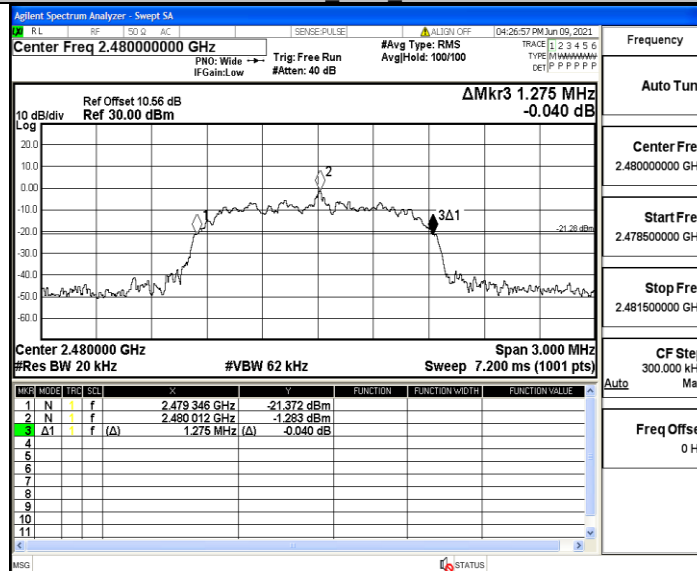
2DH5_Ant1_2402



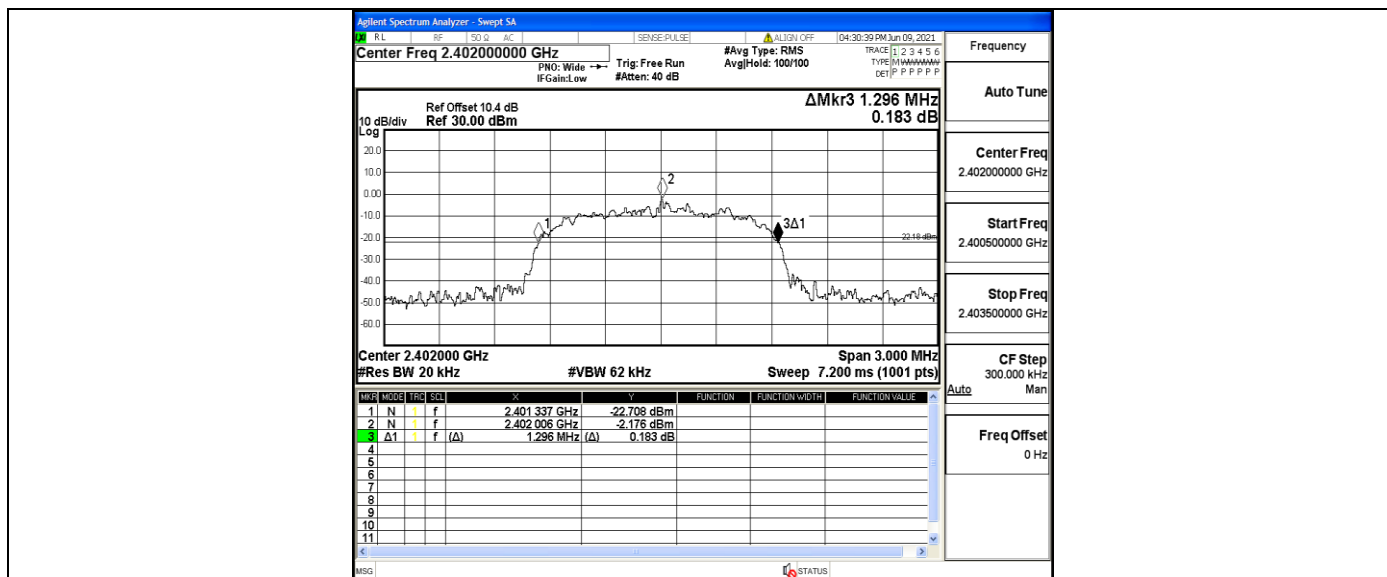
2DH5_Ant1_2441



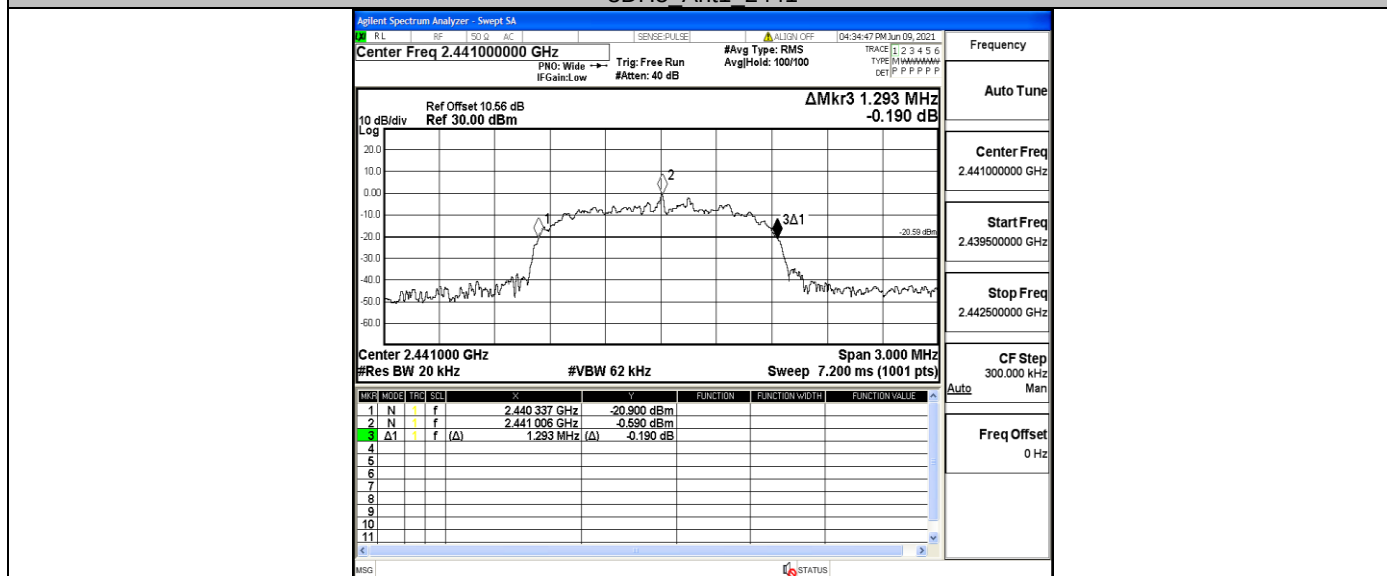
2DH5_Ant1_2480



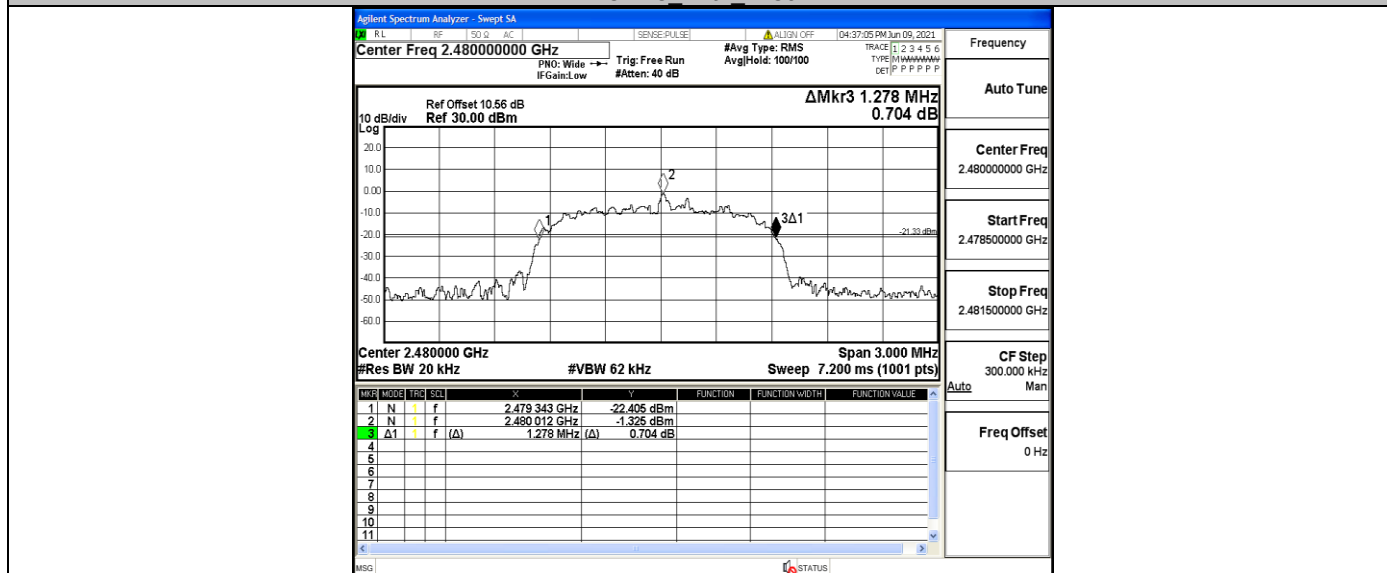
3DH5_Ant1_2402



3DH5 Ant1_2441



3DH5 Ant1_2480



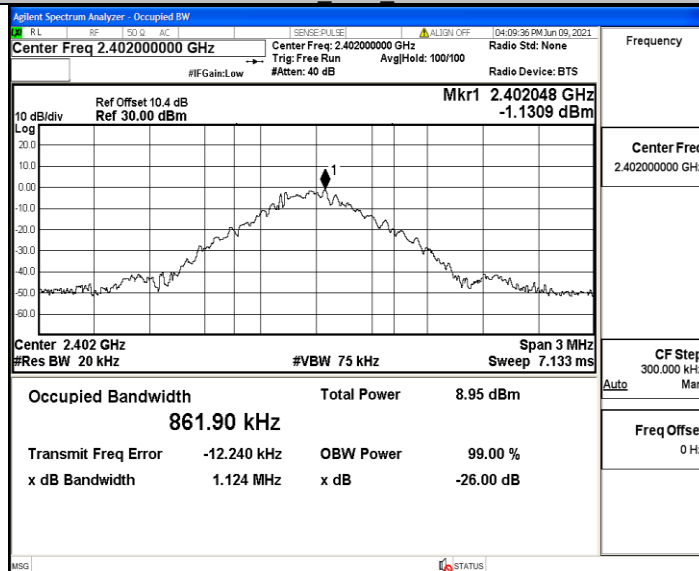
Appendix B: Occupied Channel Bandwidth

Test Result

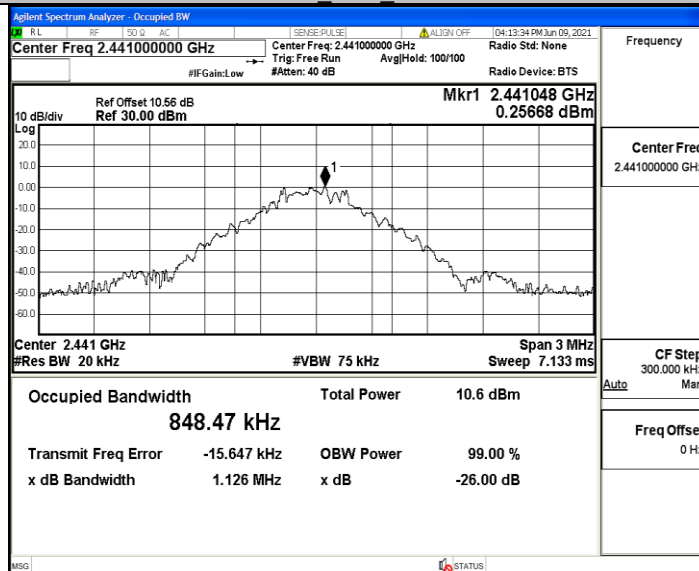
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86190	2401.557	2402.419	---	PASS
		2441	0.84847	2440.560	2441.409	---	PASS
		2480	0.86064	2479.552	2480.413	---	PASS
2DH5	Ant1	2402	1.1884	2401.397	2402.585	---	PASS
		2441	1.1872	2440.394	2441.581	---	PASS
		2480	1.1890	2479.393	2480.582	---	PASS
3DH5	Ant1	2402	1.1944	2401.388	2402.582	---	PASS
		2441	1.1924	2440.385	2441.578	---	PASS
		2480	1.1980	2479.381	2480.579	---	PASS

Test Graphs

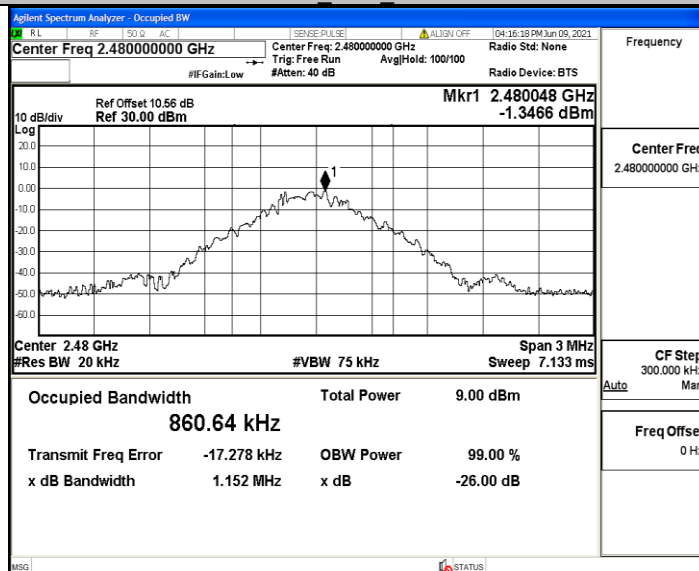
DH5_Ant1_2402



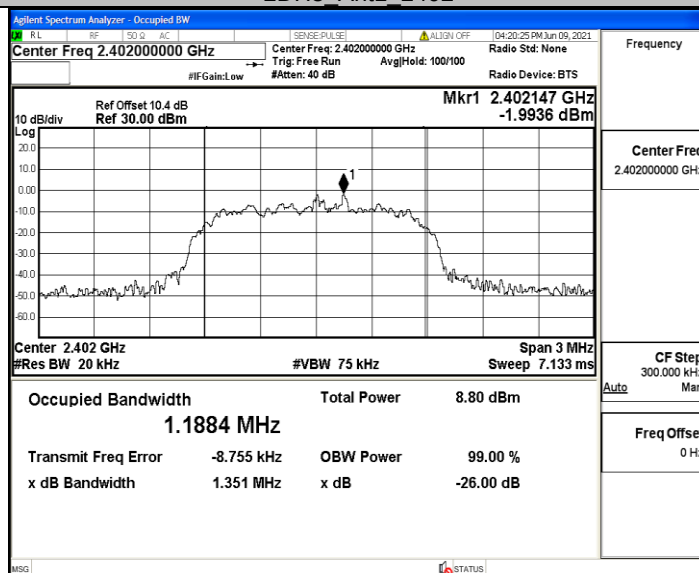
DH5_Ant1_2441



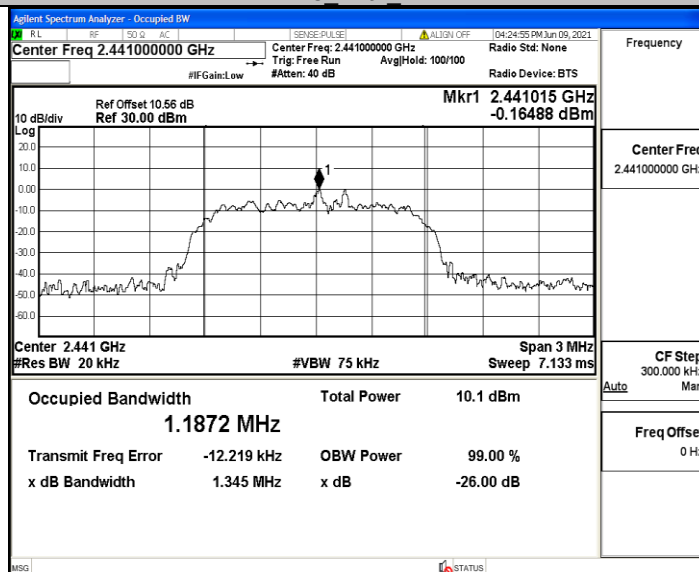
DH5_Ant1_2480



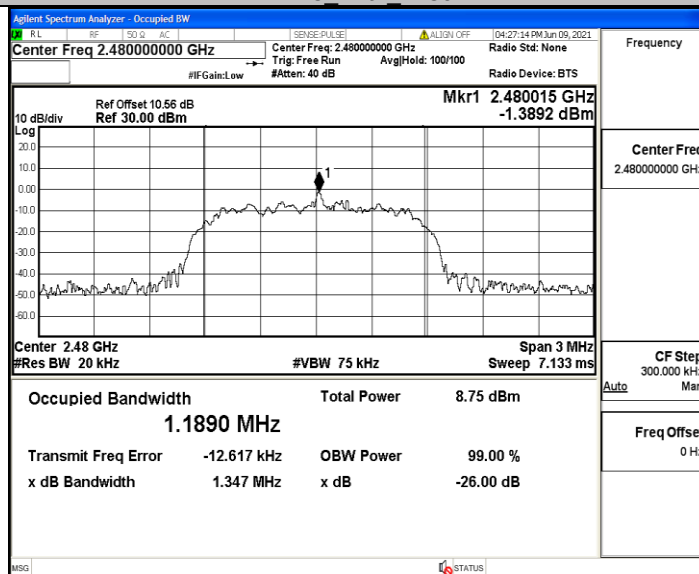
2DH5_Ant1_2402



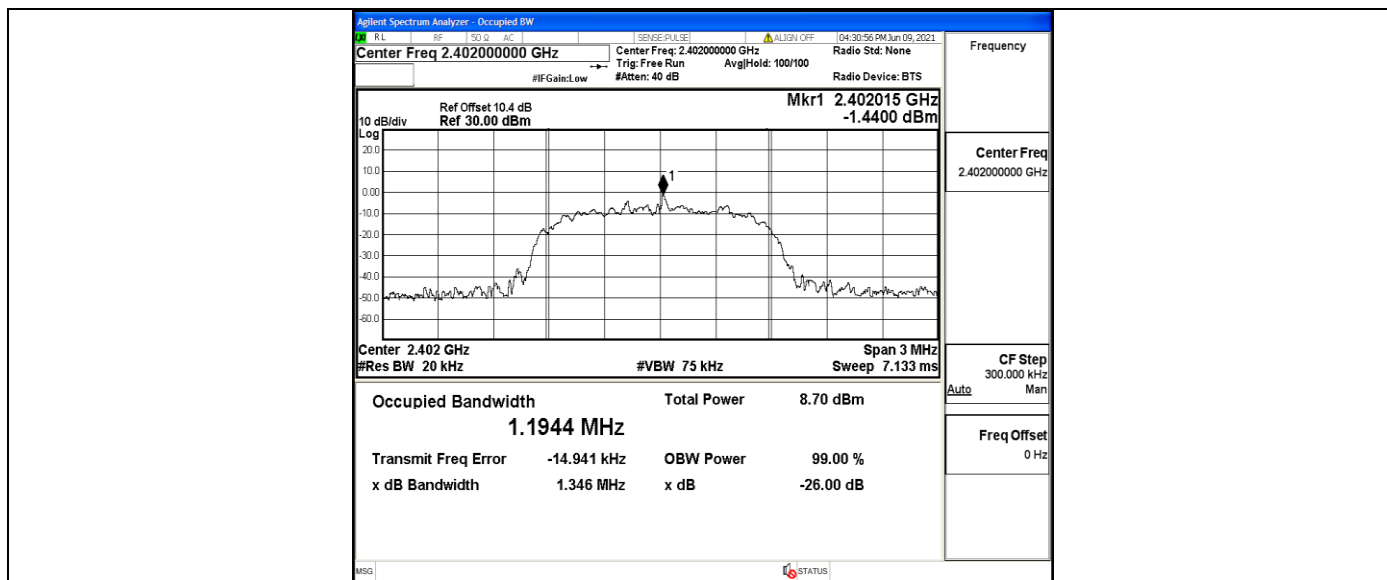
2DH5_Ant1_2441



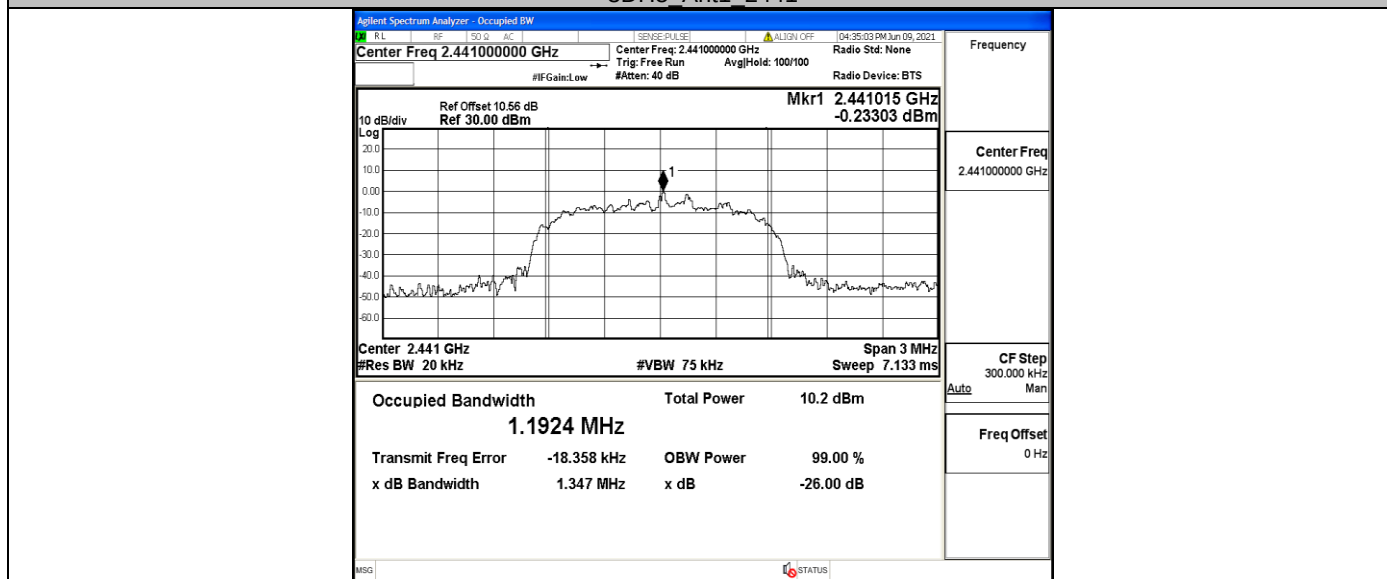
2DH5_Ant1_2480



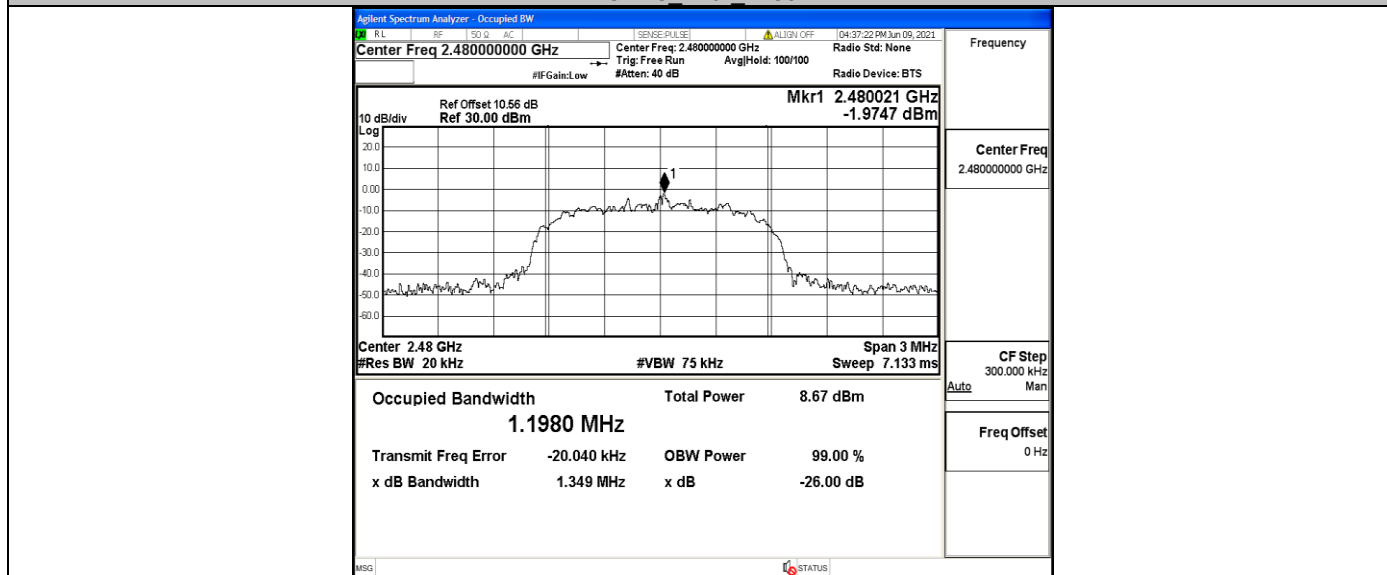
3DH5_Ant1_2402



3DH5 Ant1 2441



3DH5 Ant1 2480

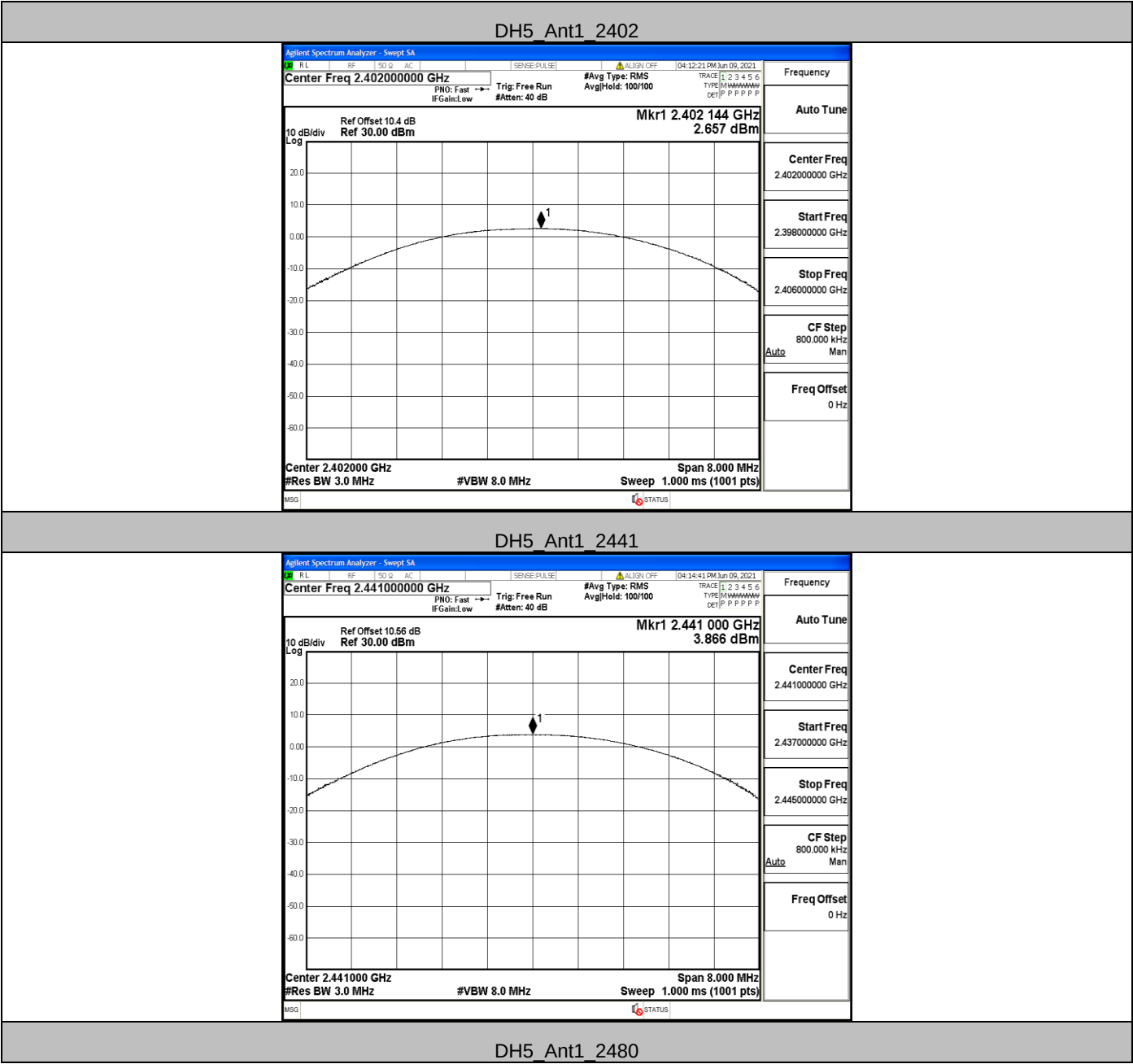


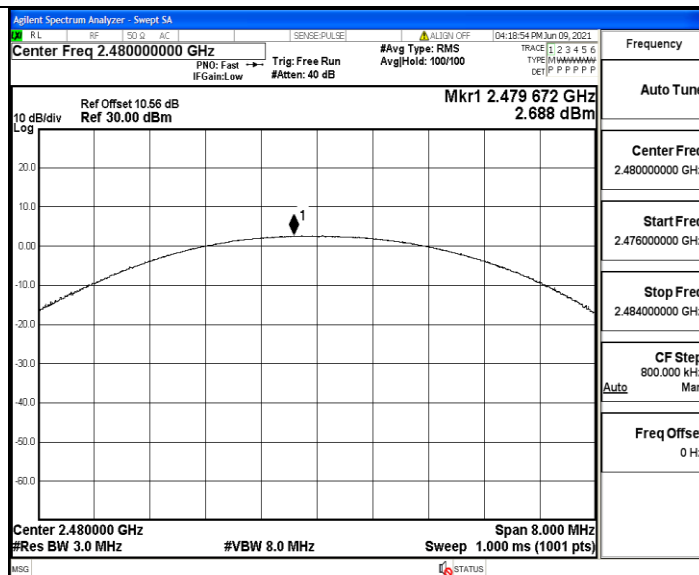
Appendix C: Maximum conducted output power

Test Result

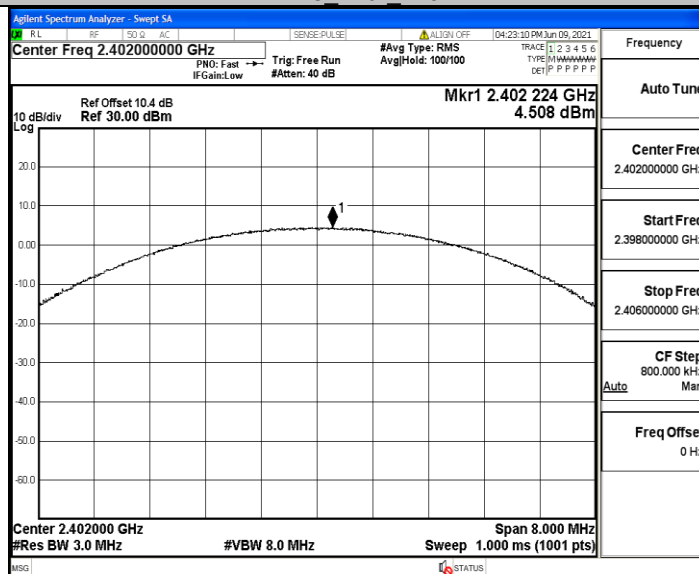
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.66	<=20.97	PASS
		2441	3.87	<=20.97	PASS
		2480	2.69	<=20.97	PASS
2DH5	Ant1	2402	4.51	<=20.97	PASS
		2441	5.82	<=20.97	PASS
		2480	4.46	<=20.97	PASS
3DH5	Ant1	2402	4.97	<=20.97	PASS
		2441	6.33	<=20.97	PASS
		2480	4.96	<=20.97	PASS

Test Graphs

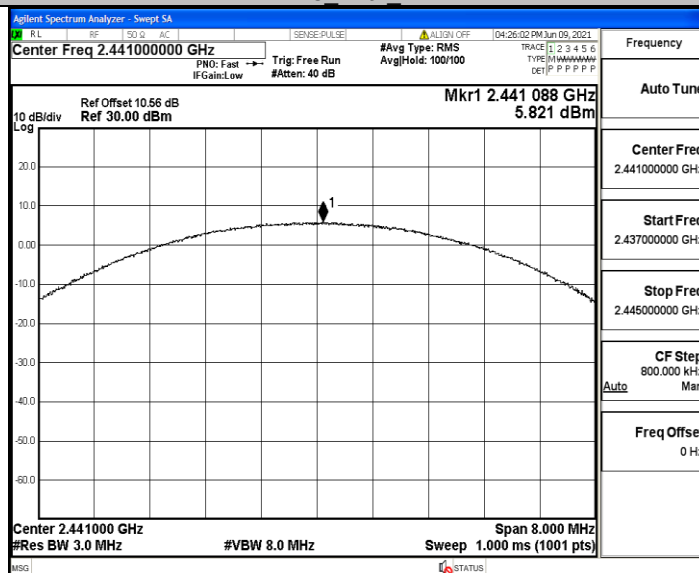




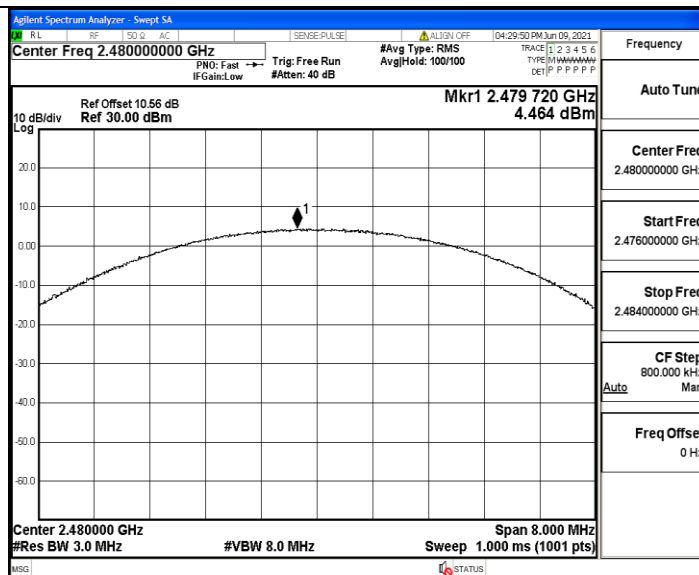
2DH5_Ant1_2402



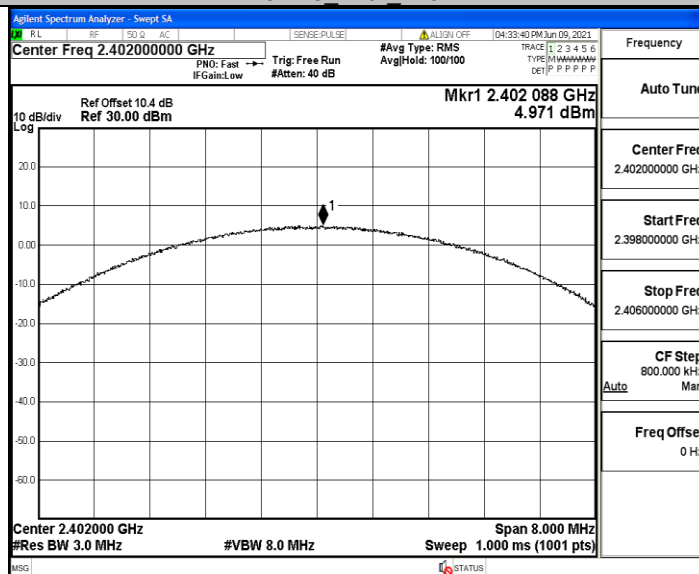
2DH5_Ant1_2441



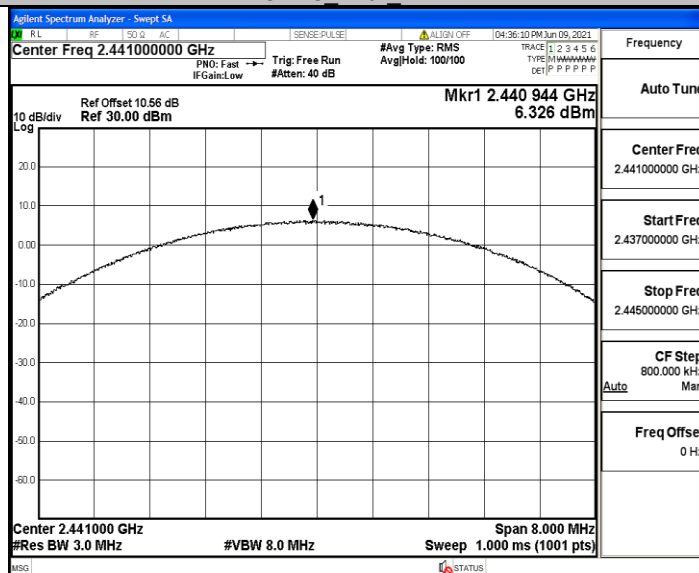
2DH5_Ant1_2480



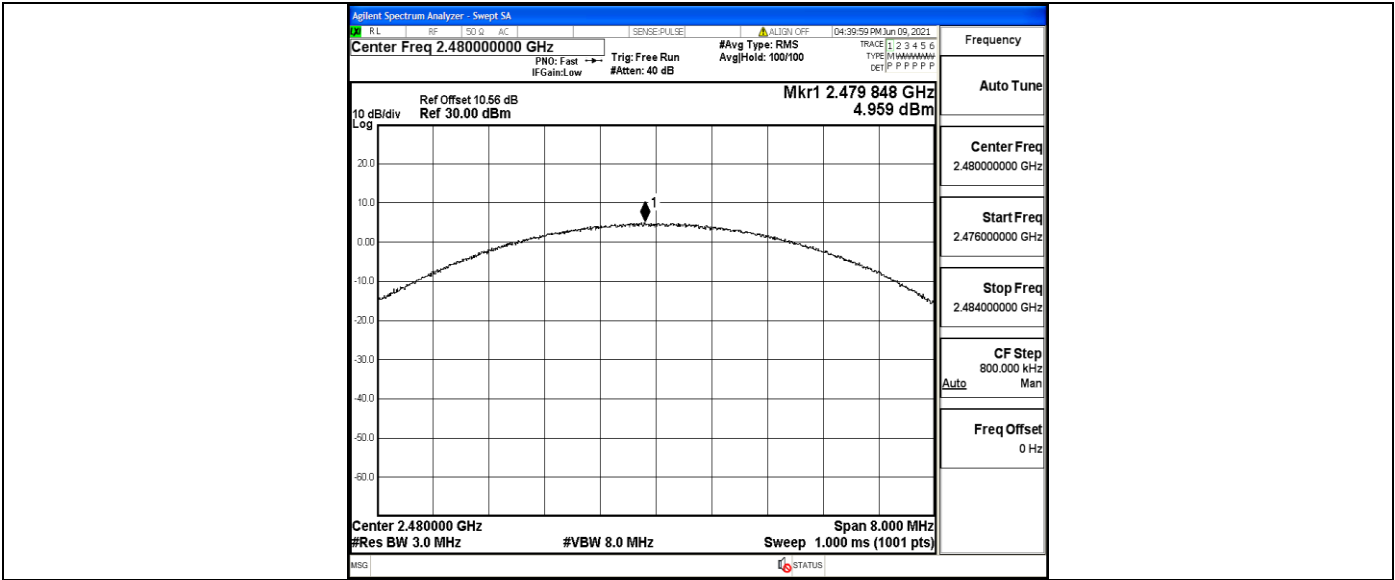
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

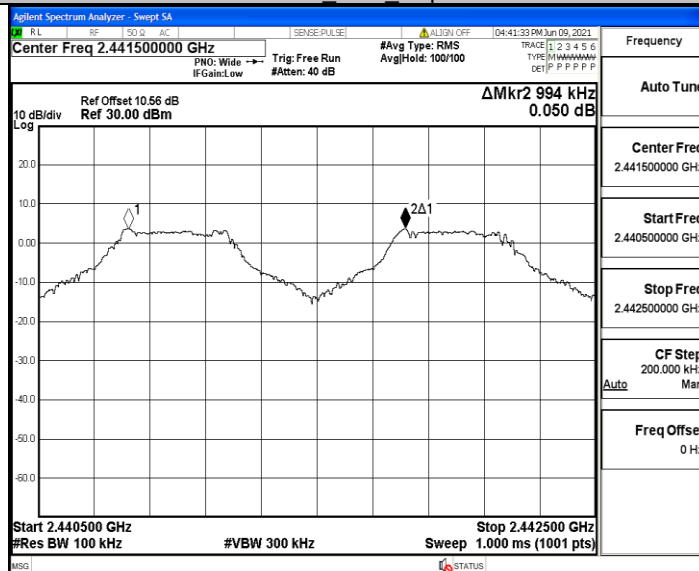


Appendix D: Carrier frequency separation Test Result

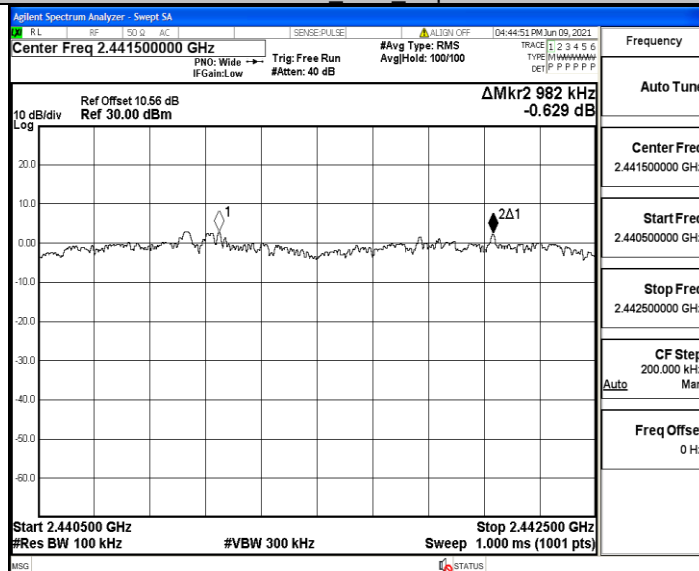
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥ 0.942	PASS
2DH5	Ant1	Hop	0.982	≥ 0.880	PASS
3DH5	Ant1	Hop	0.996	≥ 0.864	PASS

Test Graphs

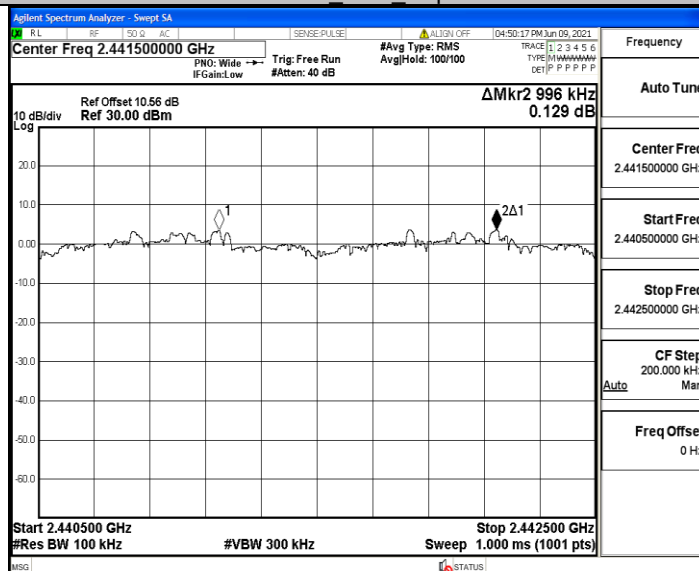
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



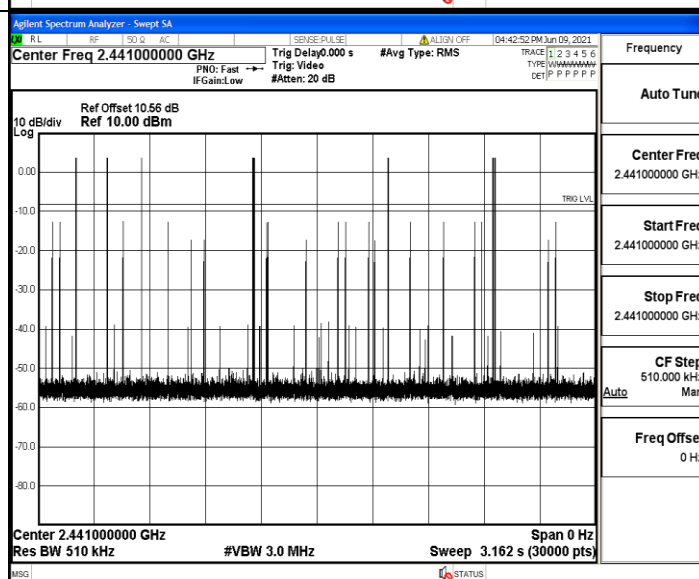
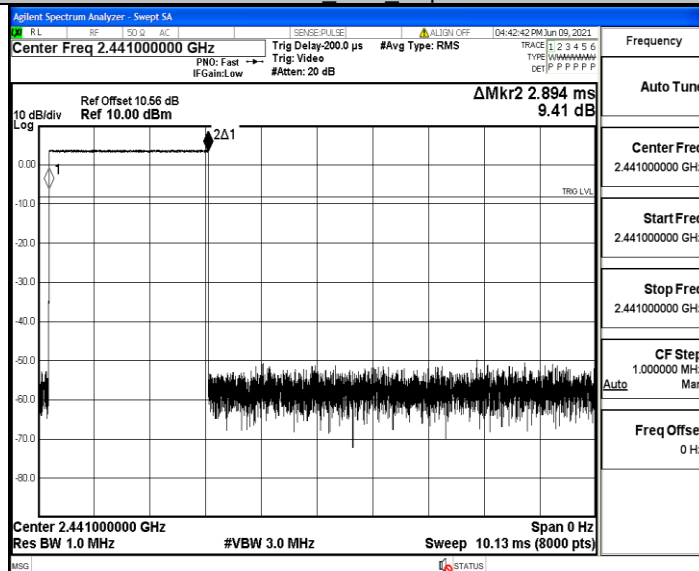
Appendix E: Time of occupancy

Test Result

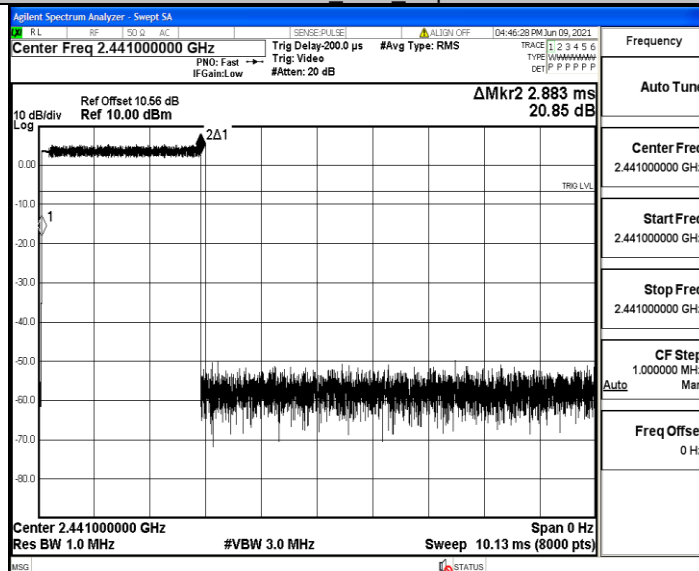
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	90	0.26	≤ 0.4	PASS
2DH5	Ant1	Hop	2.88	130	0.375	≤ 0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤ 0.4	PASS

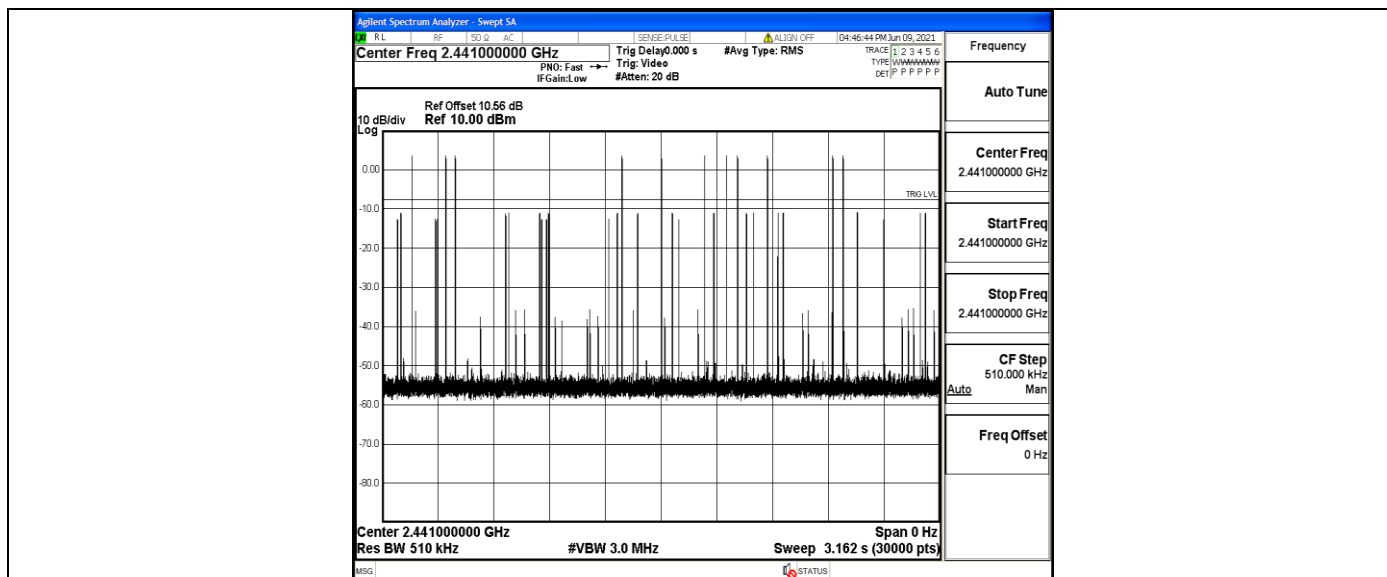
Test Graphs

DH5_Ant1_Hop

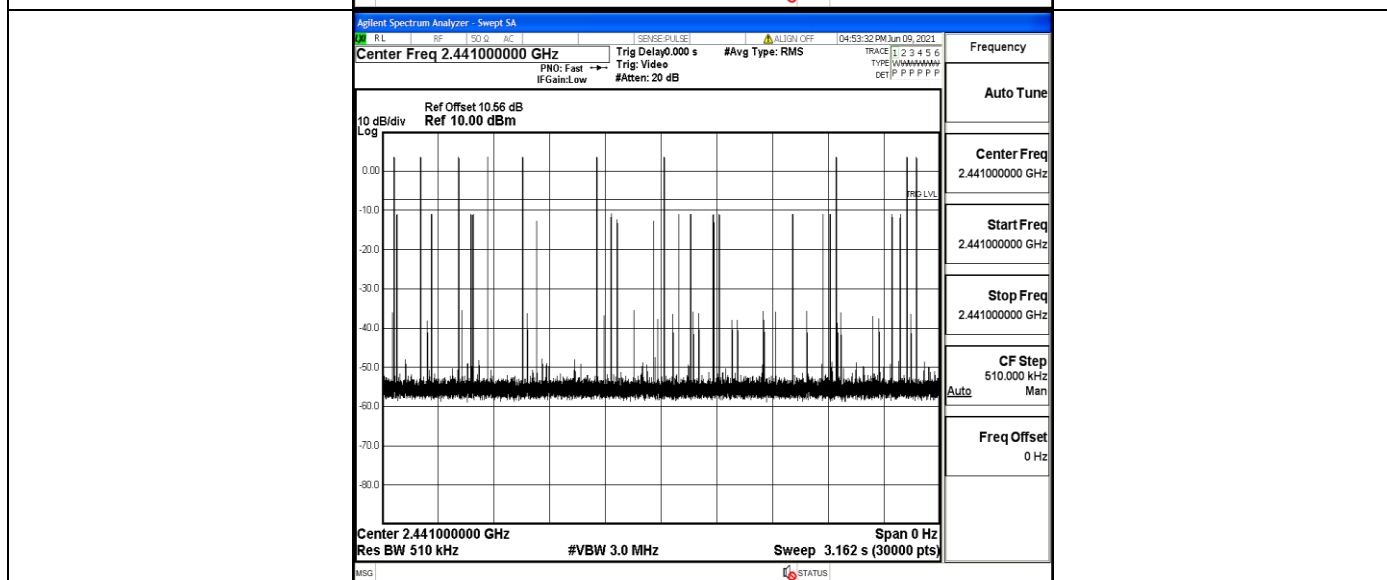
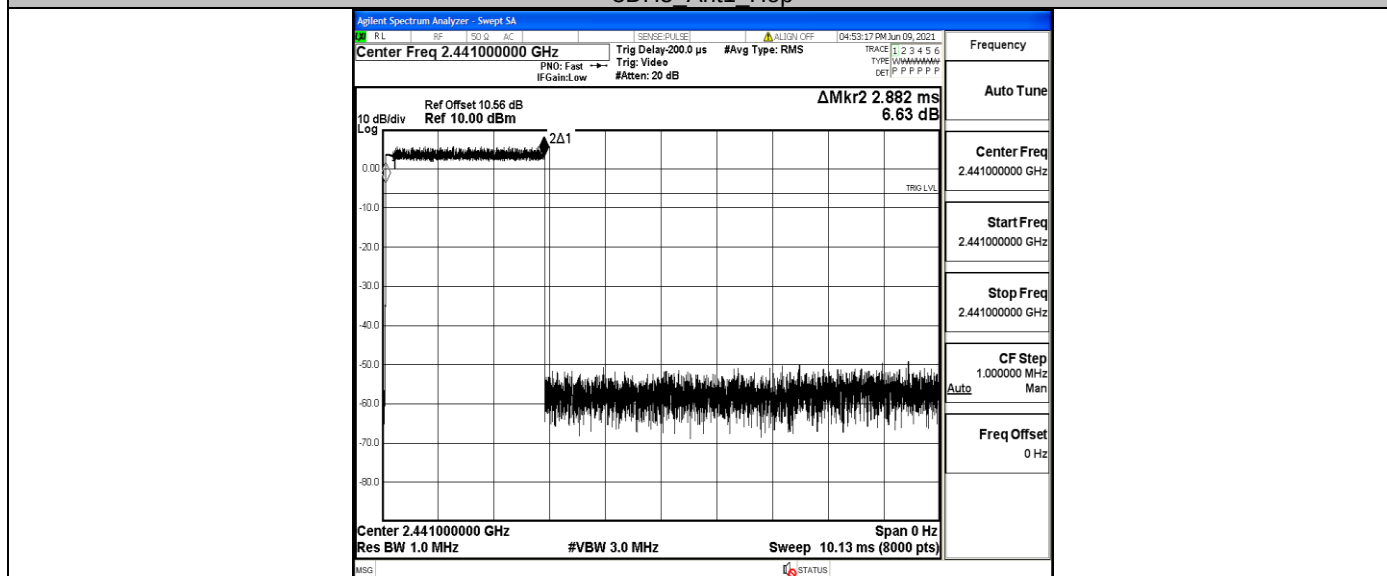


2DH5_Ant1_Hop





3DH5 Ant1 Hop

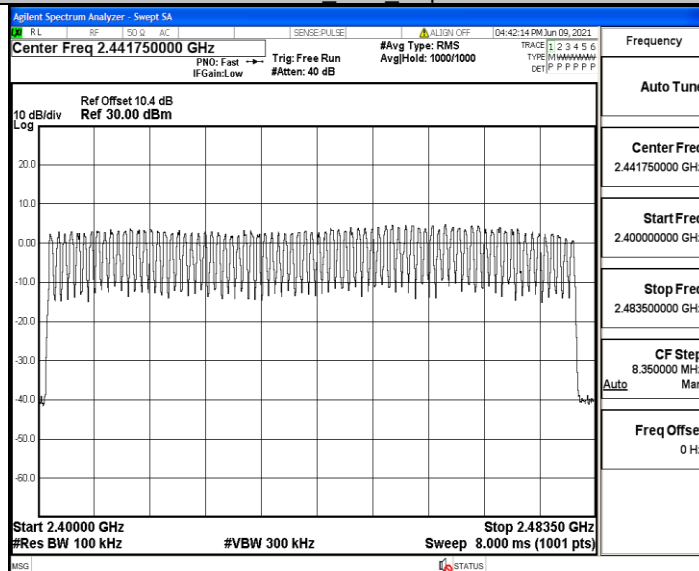


Appendix F: Number of hopping channels**Test Result**

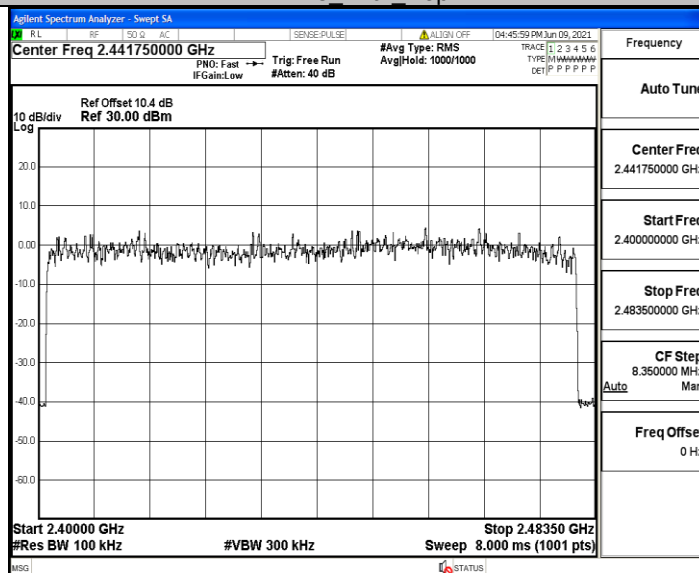
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	>=15	PASS
2DH5	Ant1	Hop	79	>=15	PASS
3DH5	Ant1	Hop	79	>=15	PASS

Test Graphs

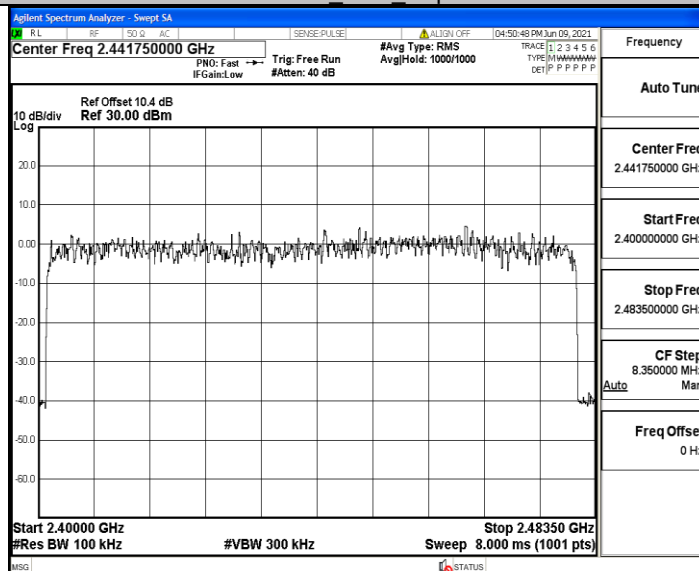
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



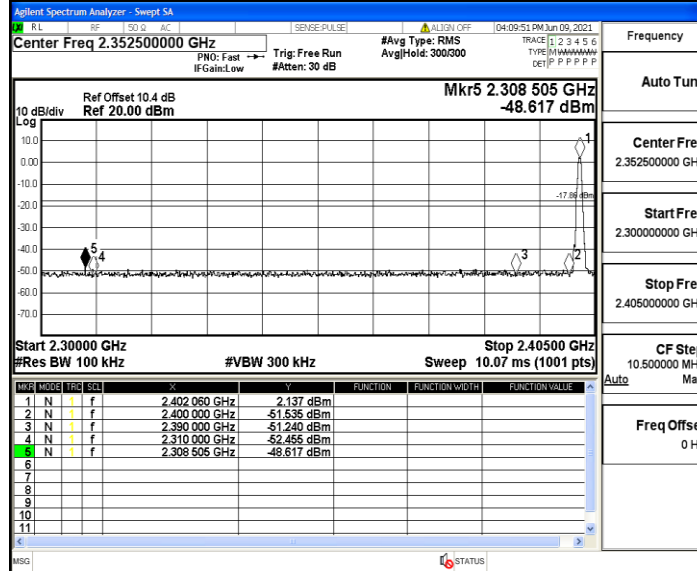
Appendix G: Band edge measurements

Test Result

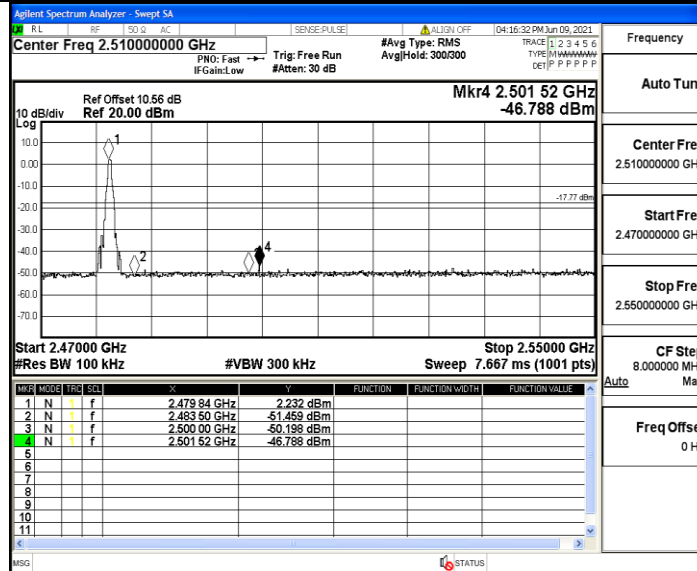
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.14	-48.62	<=-17.86	PASS
		High	2480	2.23	-46.79	<=-17.77	PASS
		Low	Hop_2402	1.32	-48.66	<=-18.68	PASS
		High	Hop_2480	2.73	-47.76	<=-17.27	PASS
2DH5	Ant1	Low	2402	1.45	-48.3	<=-18.55	PASS
		High	2480	1.96	-47.99	<=-18.04	PASS
		Low	Hop_2402	-0.34	-49.4	<=-20.34	PASS
		High	Hop_2480	3.47	-48.05	<=-16.53	PASS
3DH5	Ant1	Low	2402	2.40	-48.67	<=-17.6	PASS
		High	2480	1.87	-47.77	<=-18.13	PASS
		Low	Hop_2402	0.10	-49.01	<=-19.9	PASS
		High	Hop_2480	0.98	-47.62	<=-19.02	PASS

Test Graphs

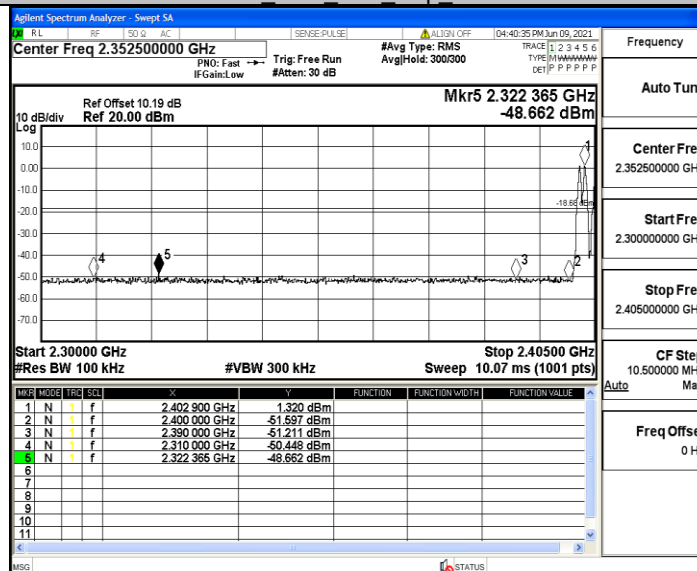
DH5_Ant1_Low_2402



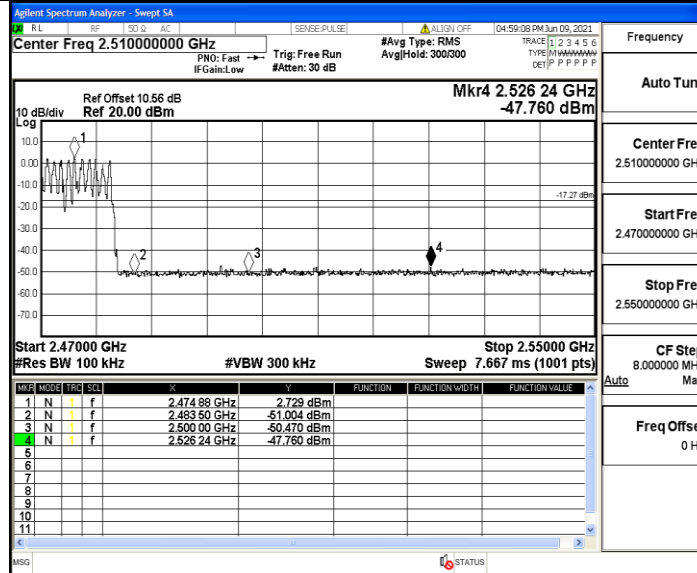
DH5_Ant1_High_2480



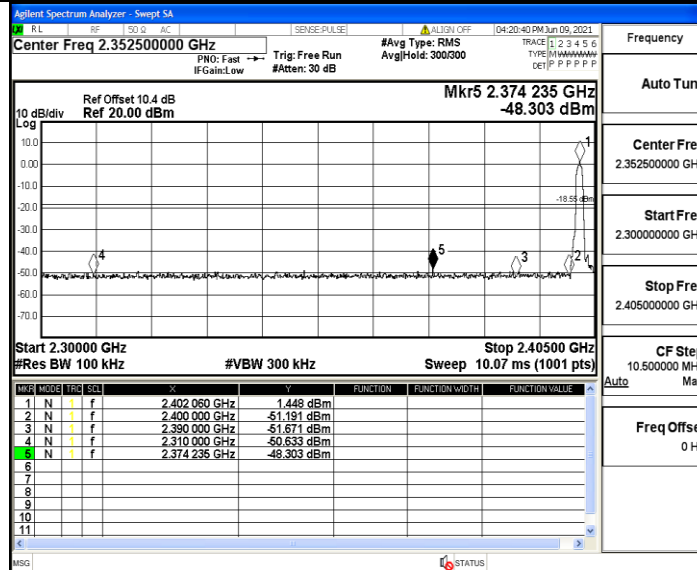
DH5_Ant1_Low_Hop_2402



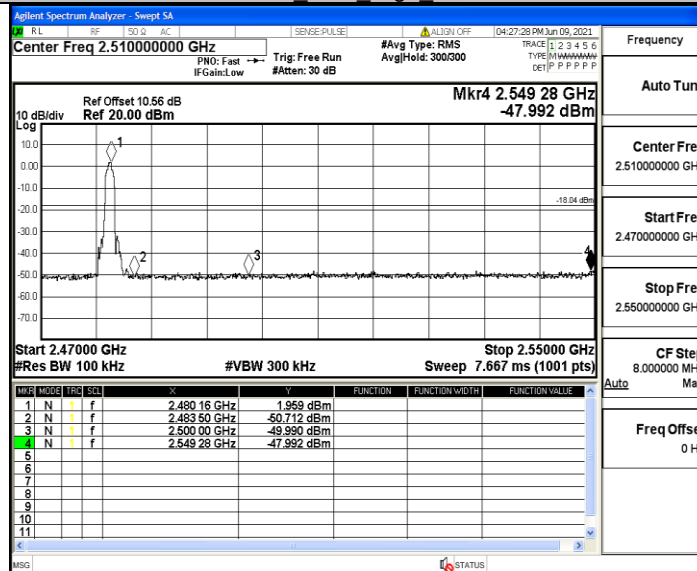
DH5_Ant1_High_Hop_2480



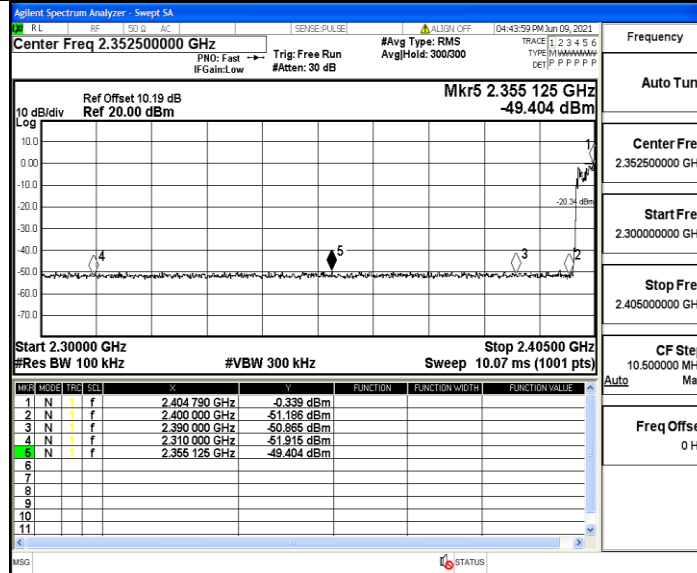
2DH5_Ant1_Low_2402



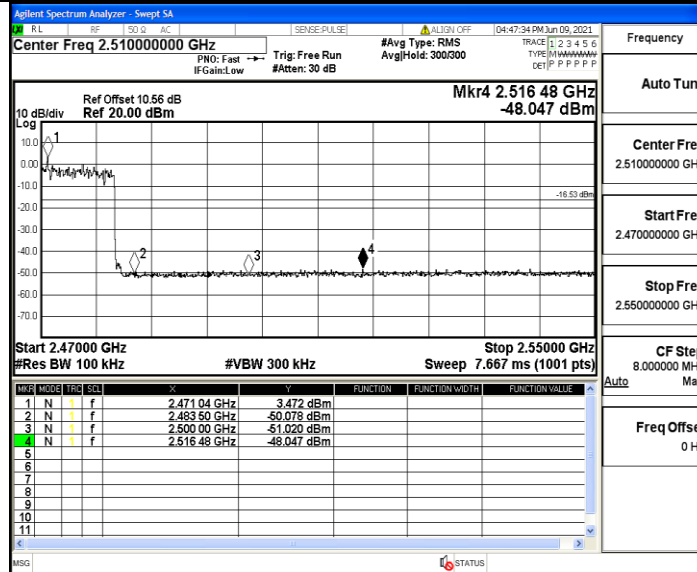
2DH5_Ant1_High_2480



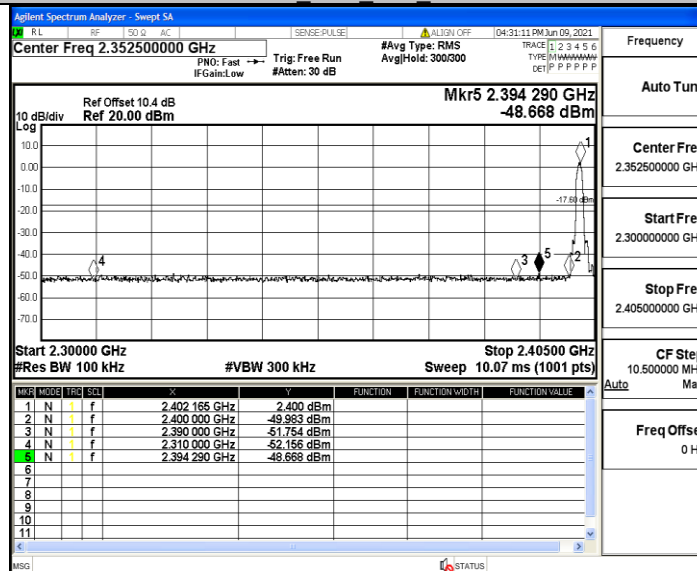
2DH5_Ant1_Low_Hop_2402



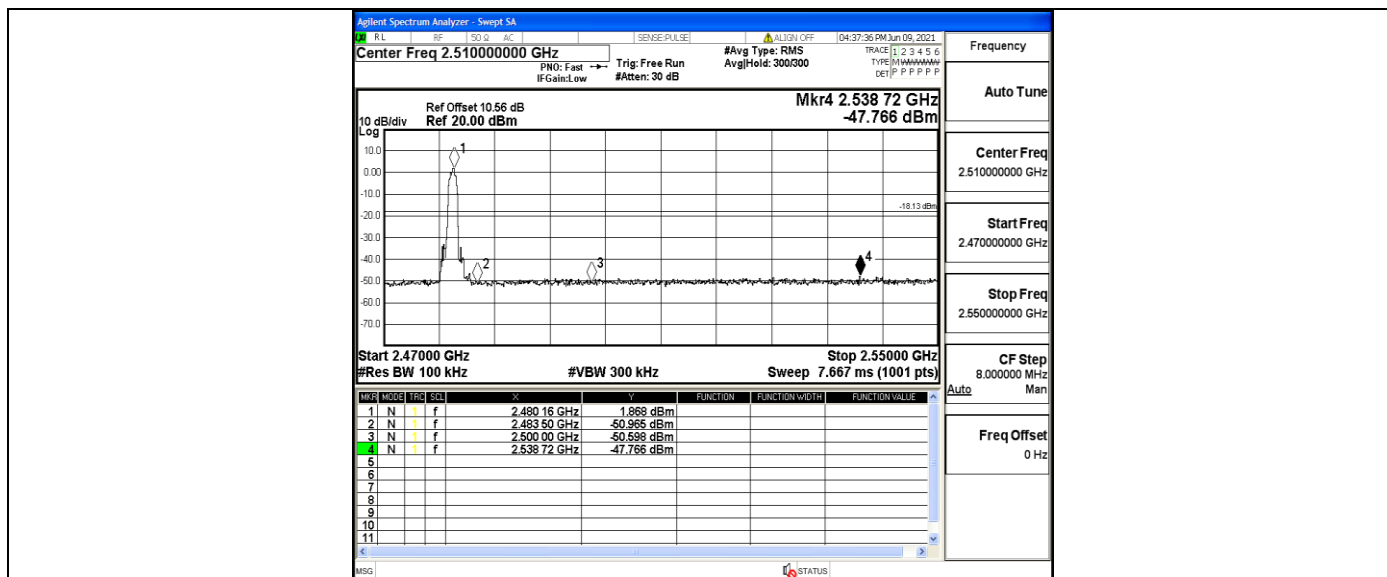
2DH5 Ant1 High Hop 2480



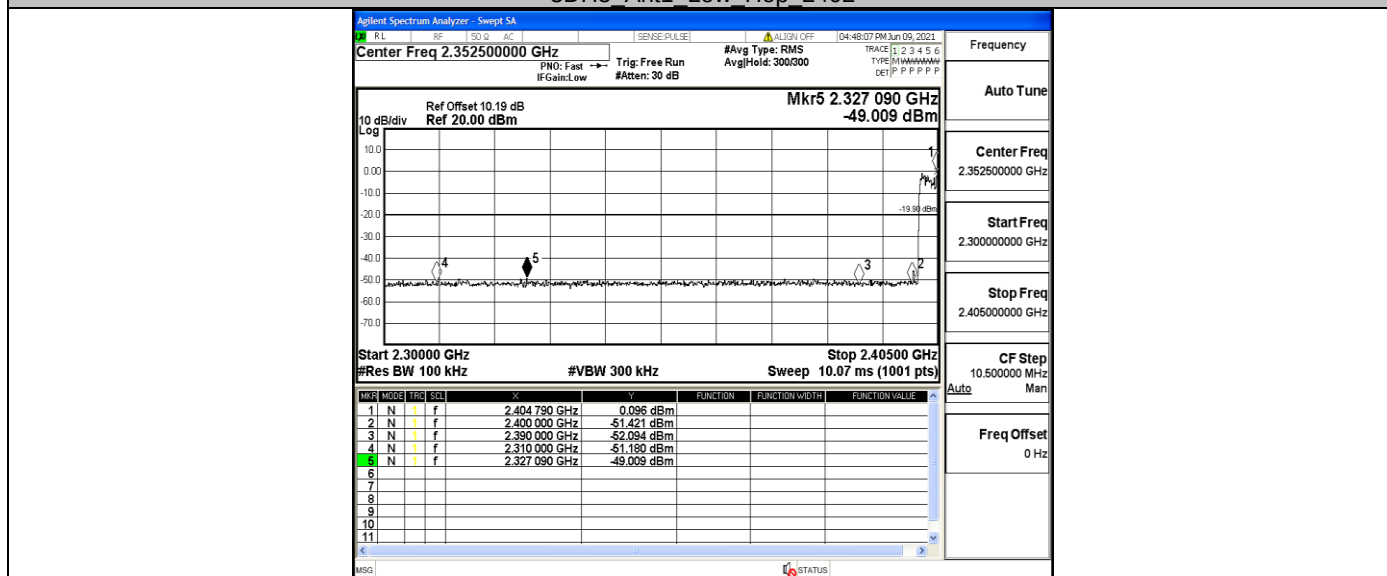
3DH5 Ant1 Low 2402



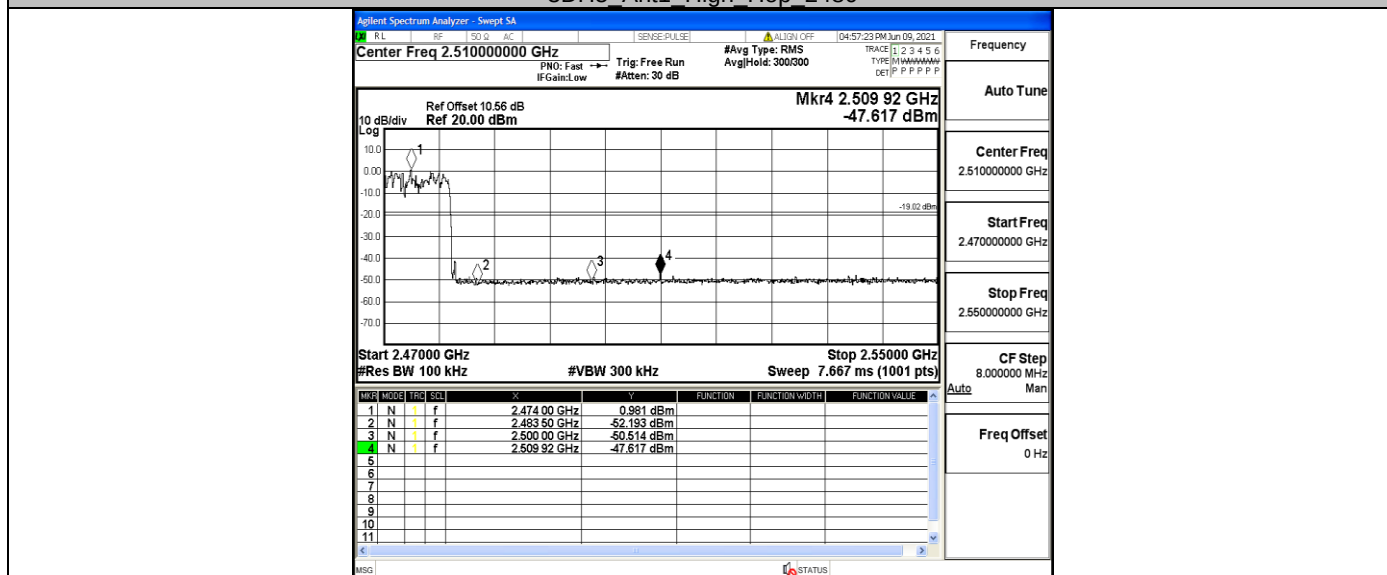
3DH5 Ant1 High 2480



3DH5 Ant1 Low Hop 2402



3DH5 Ant1 High Hop 2480



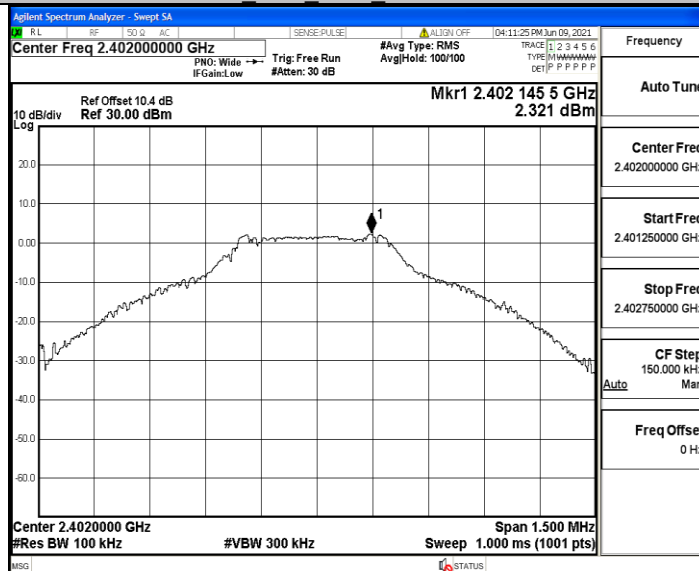
Appendix H: Conducted Spurious Emission

Test Result

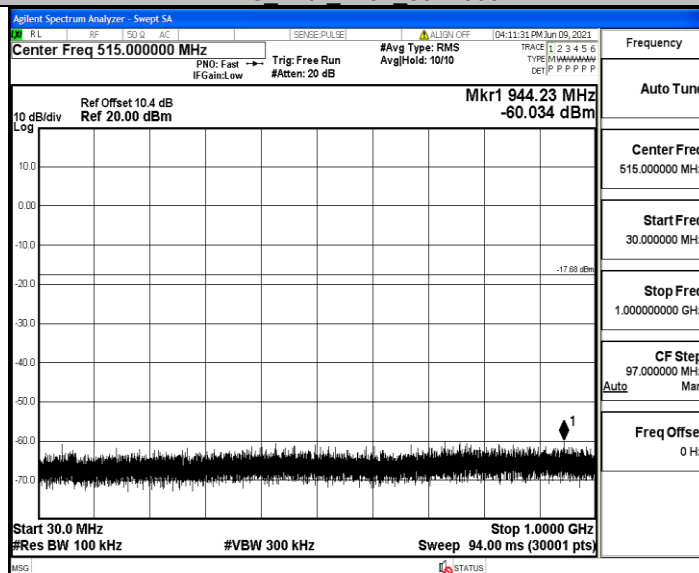
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.32	2.32	---	PASS
			30~1000	2.32	-60.03	<=-17.68	PASS
			1000~26500	2.32	-51.04	<=-17.68	PASS
		2441	Reference	3.45	3.45	---	PASS
			30~1000	3.45	-58.96	<=-16.55	PASS
			1000~26500	3.45	-51.04	<=-16.55	PASS
		2480	Reference	2.25	2.25	---	PASS
			30~1000	2.25	-59.5	<=-17.75	PASS
			1000~26500	2.25	-50.61	<=-17.75	PASS
2DH5	Ant1	2402	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-59.84	<=-20.78	PASS
			1000~26500	-0.78	-50.11	<=-20.78	PASS
		2441	Reference	2.94	2.94	---	PASS
			30~1000	2.94	-59.92	<=-17.06	PASS
			1000~26500	2.94	-50.96	<=-17.06	PASS
		2480	Reference	1.63	1.63	---	PASS
			30~1000	1.63	-59.49	<=-18.37	PASS
			1000~26500	1.63	-50.04	<=-18.37	PASS
3DH5	Ant1	2402	Reference	0.62	0.62	---	PASS
			30~1000	0.62	-59.35	<=-19.38	PASS
			1000~26500	0.62	-50.94	<=-19.38	PASS
		2441	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-59.84	<=-19.02	PASS
			1000~26500	0.98	-50.24	<=-19.02	PASS
		2480	Reference	2.33	2.33	---	PASS
			30~1000	2.33	-59.24	<=-17.67	PASS
			1000~26500	2.33	-51.18	<=-17.67	PASS

Test Graphs

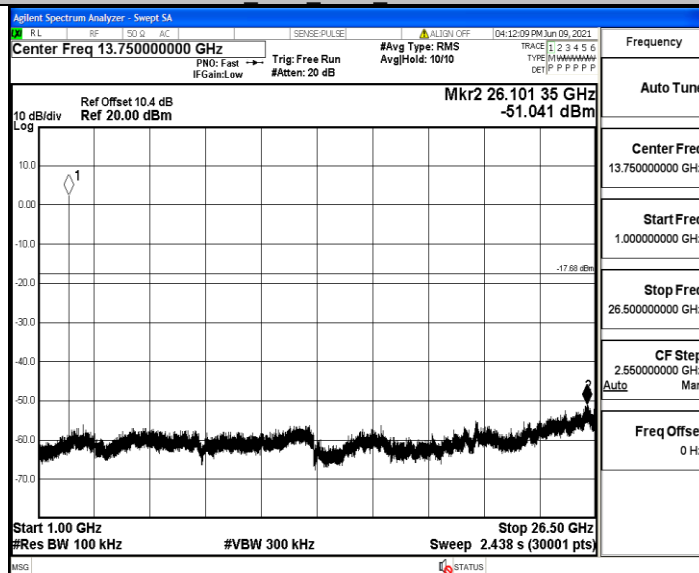
DH5_Ant1_2402_0-Reference



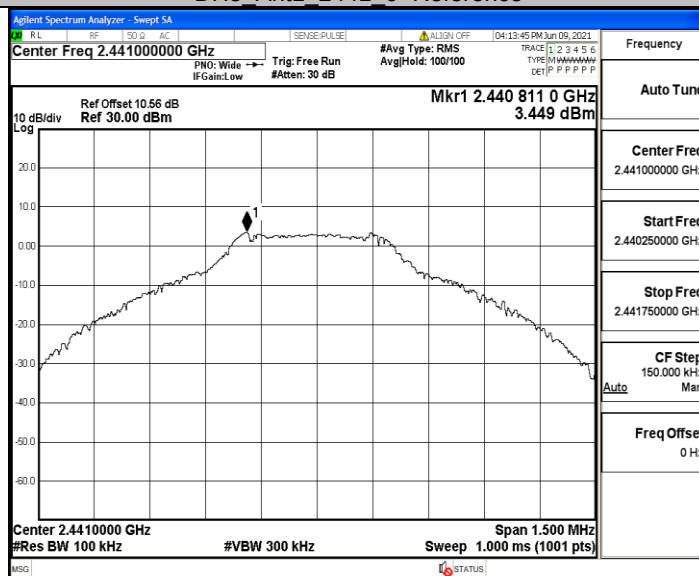
DH5_Ant1_2402_30~1000



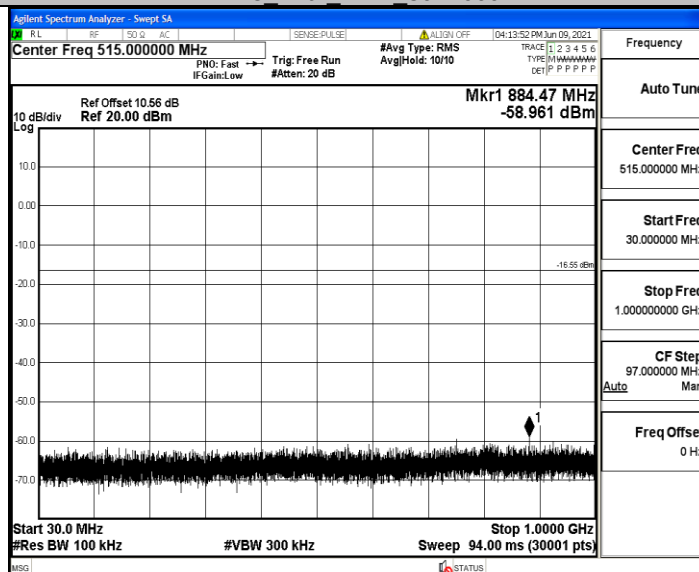
DH5_Ant1_2402_1000~26500



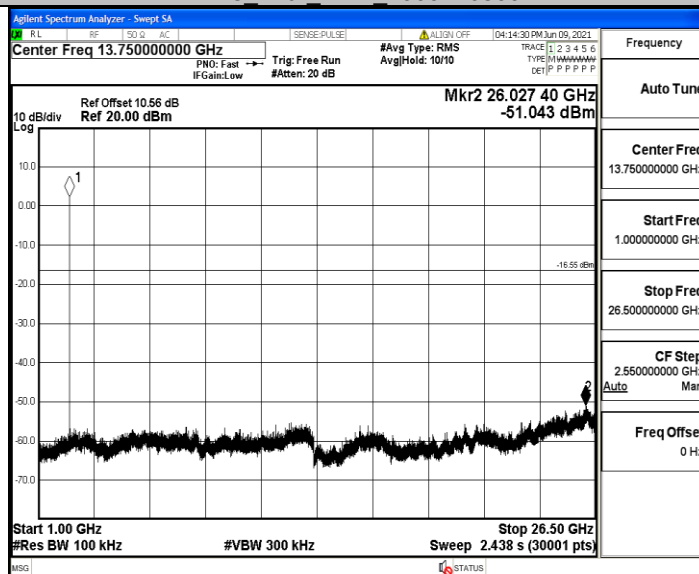
DH5_Ant1_2441_0-Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0-Reference