

RF Test Data for BT(BDR/EDR) (Conducted Measurement)**Product Name: multimedia car player****Trade Mark: DS18****Test Model: DS18****FCC ID: 2AYOQ-DS18****Environmental Conditions**

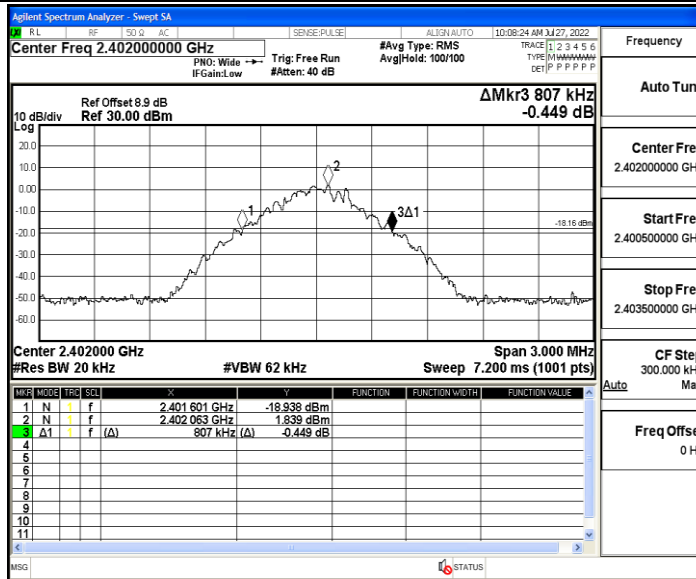
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

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

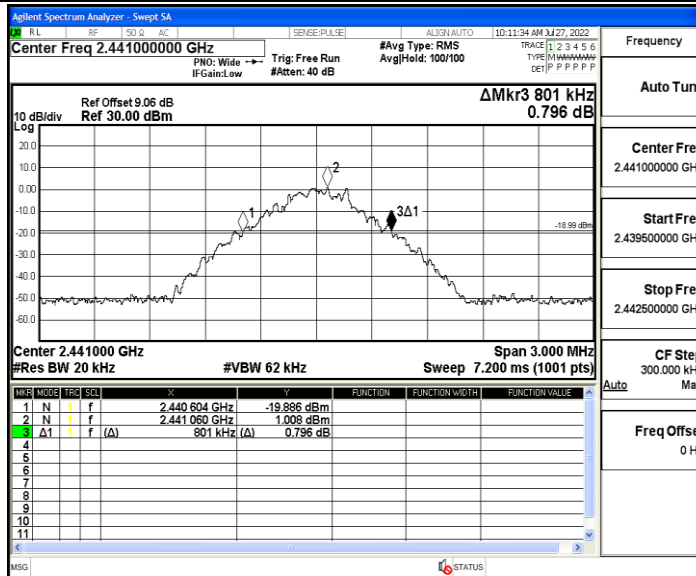
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.807	2401.601	2402.408	---	---
		2441	0.801	2440.604	2441.405	---	---
		2480	0.864	2479.523	2480.387	---	---
2DH5	Ant1	2402	1.260	2401.370	2402.630	---	---
		2441	1.215	2440.391	2441.606	---	---
		2480	1.320	2479.319	2480.639	---	---
3DH5	Ant1	2402	1.332	2401.307	2402.639	---	---
		2441	1.329	2440.310	2441.639	---	---
		2480	1.284	2479.328	2480.612	---	---

Test Graphs

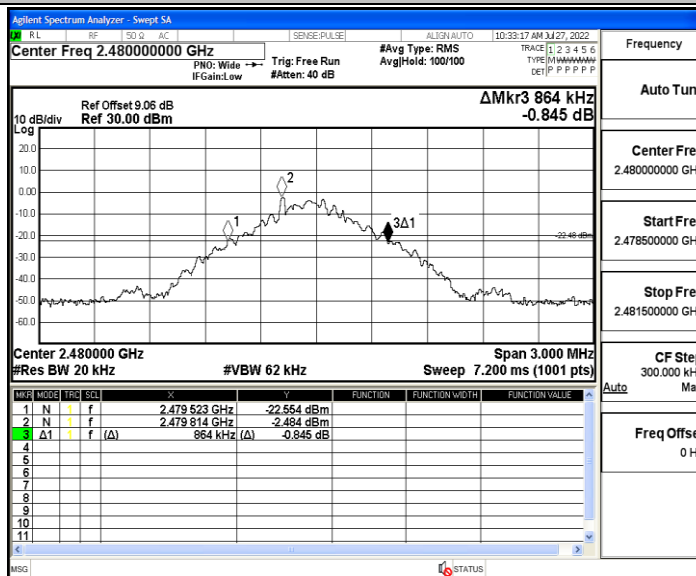
DH5_Ant1_2402



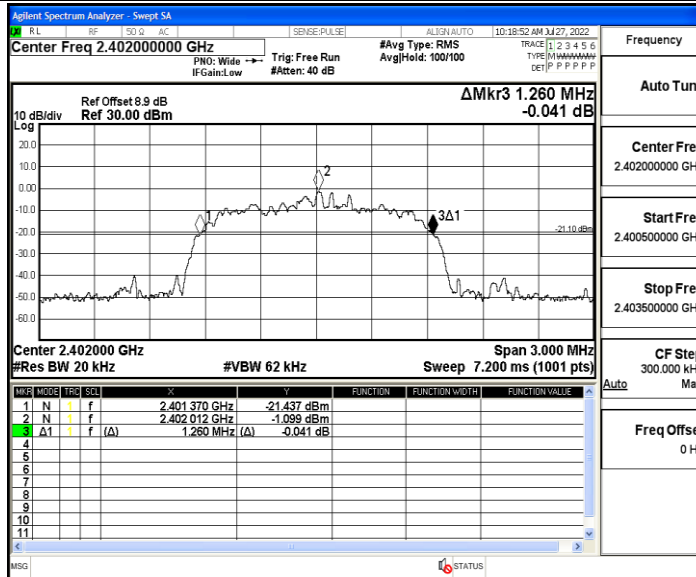
DH5_Ant1_2441



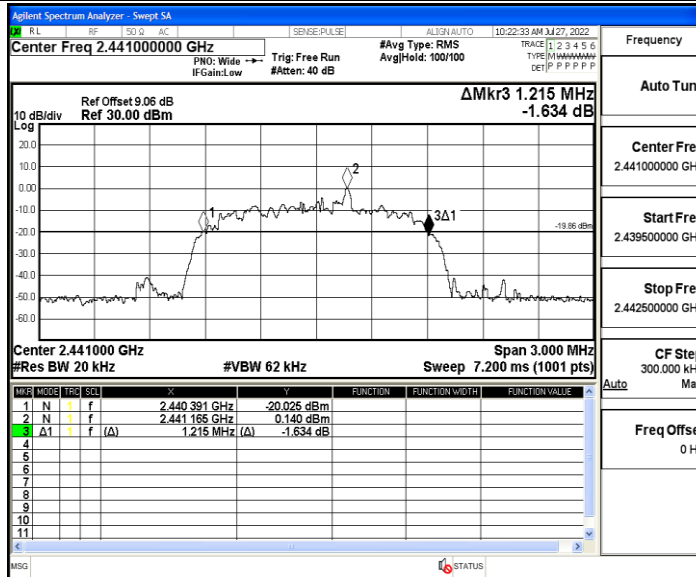
DH5_Ant1_2480



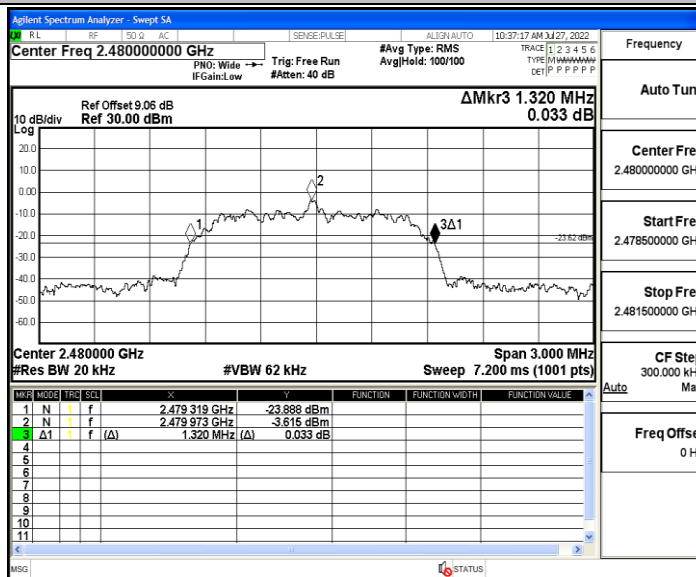
2DH5_Ant1_2402



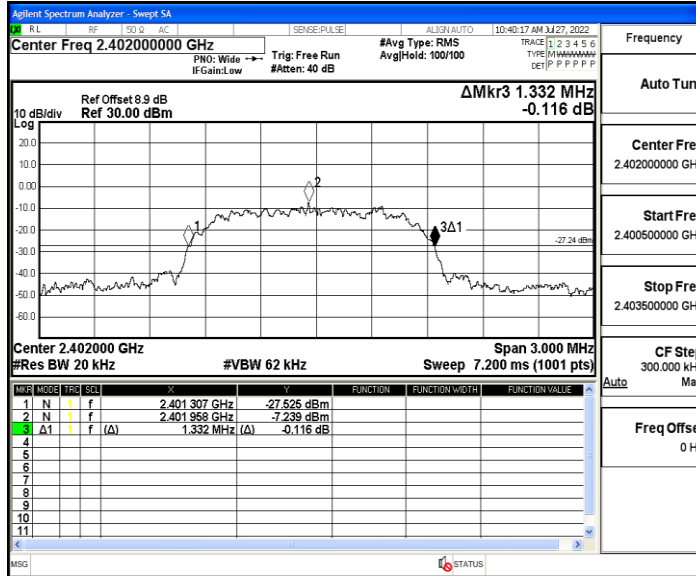
2DH5_Ant1_2441



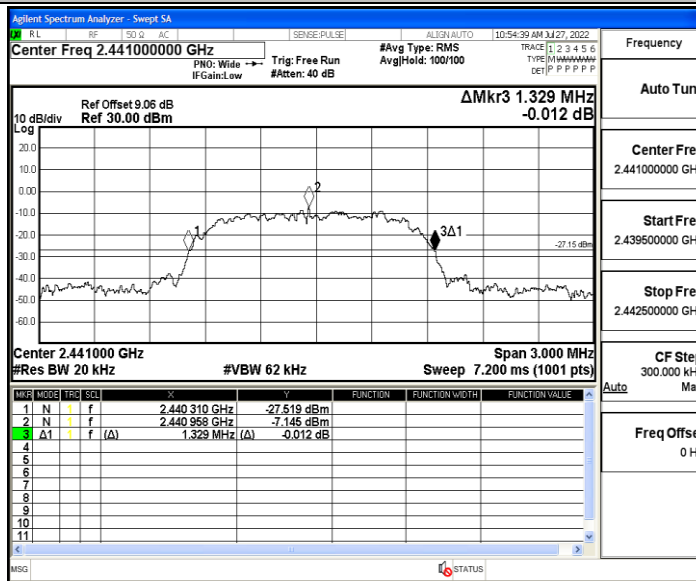
2DH5_Ant1_2480



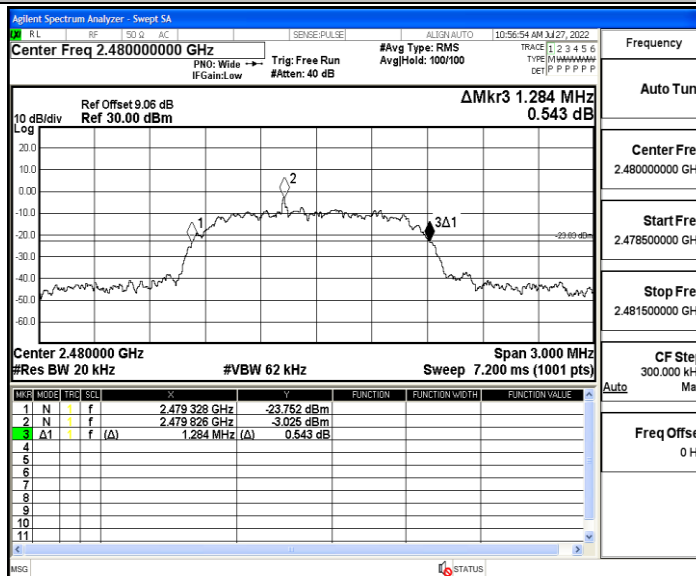
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



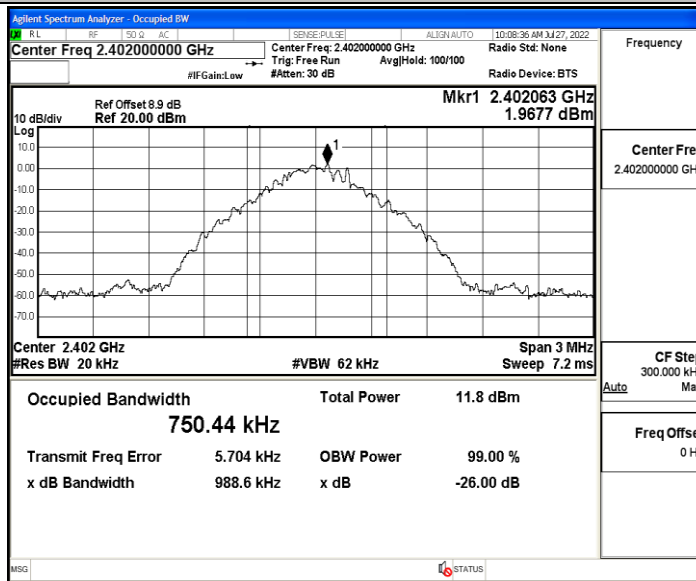
Appendix B: Occupied Channel Bandwidth

Test Result

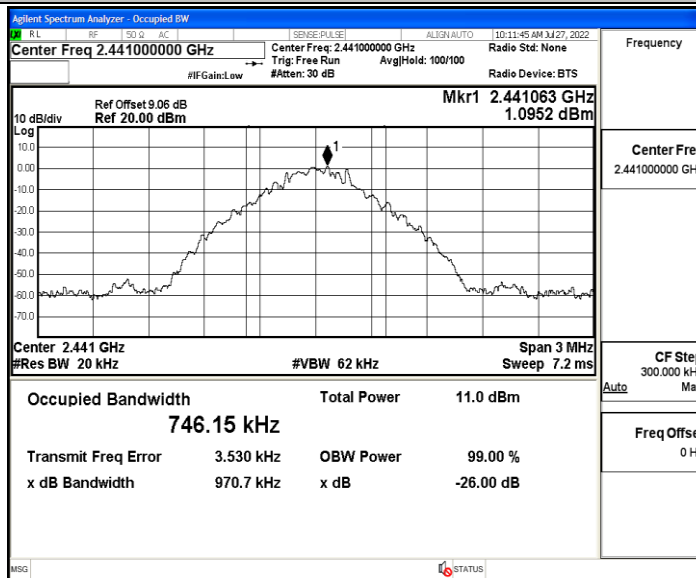
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.75044	2401.630	2402.381	---	---
		2441	0.74615	2440.630	2441.377	---	---
		2480	0.84625	2479.553	2480.400	---	---
2DH5	Ant1	2402	1.1626	2401.418	2402.581	---	---
		2441	1.1628	2440.418	2441.581	---	---
		2480	1.1928	2479.382	2480.575	---	---
3DH5	Ant1	2402	1.1855	2401.381	2402.566	---	---
		2441	1.1853	2440.380	2441.565	---	---
		2480	1.2011	2479.372	2480.573	---	---

Test Graphs

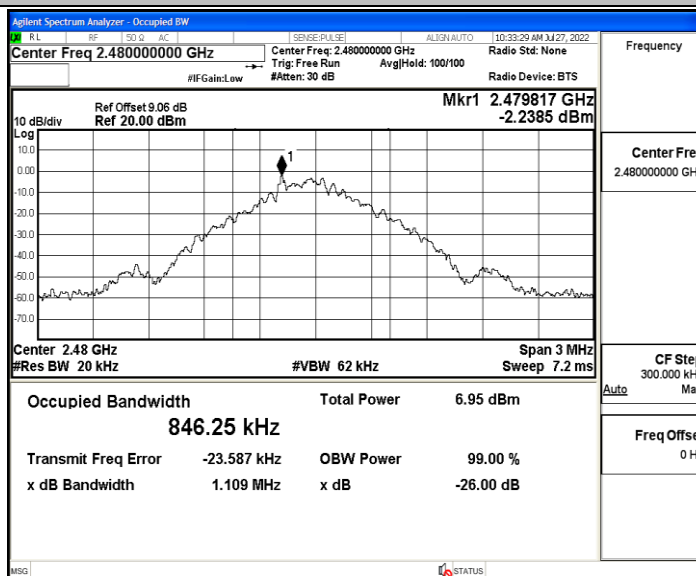
DH5_Ant1_2402



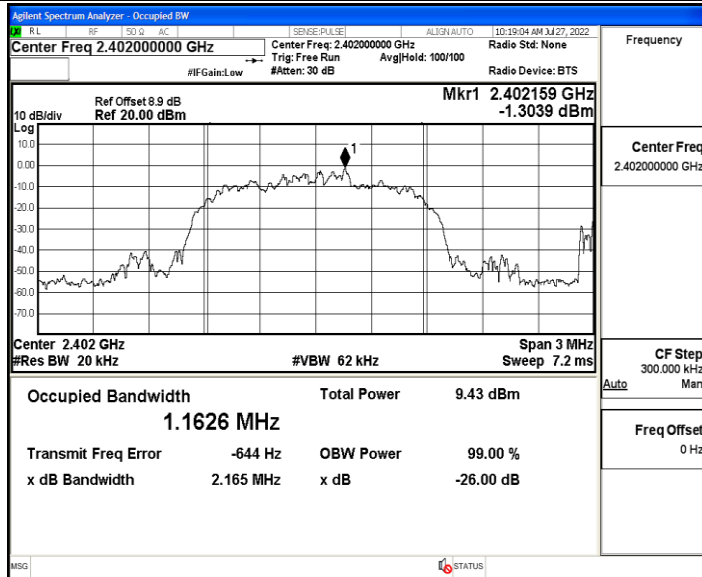
DH5_Ant1_2441



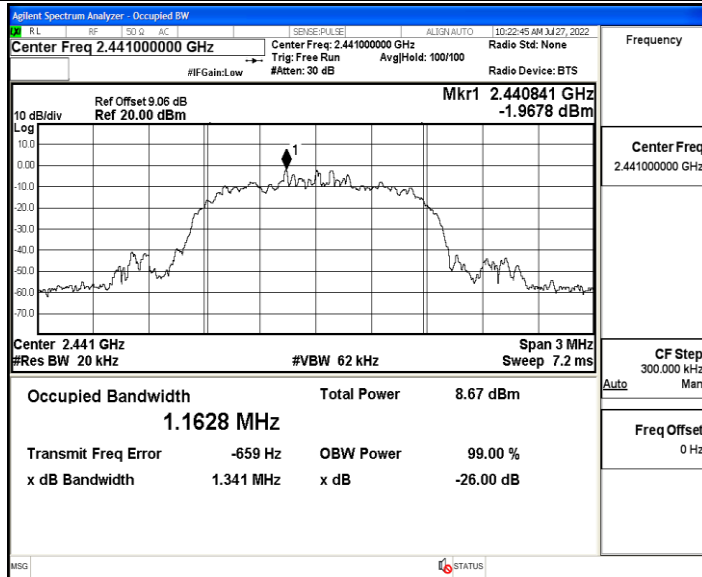
DH5_Ant1_2480



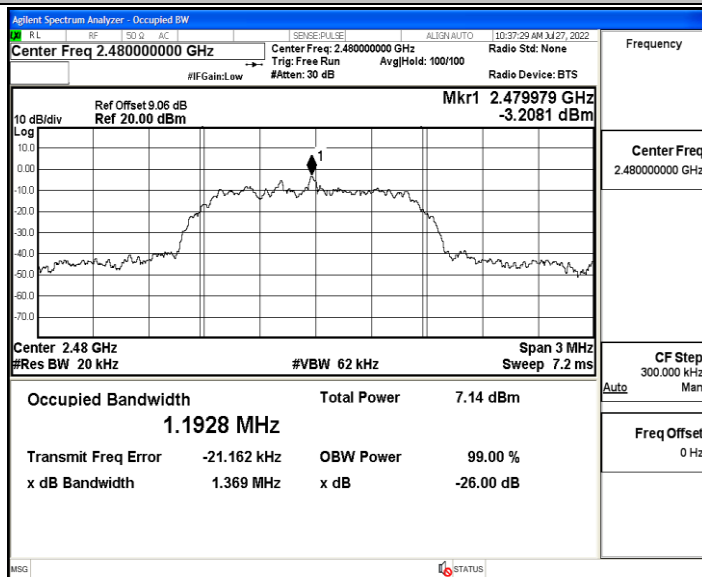
2DH5_Ant1_2402



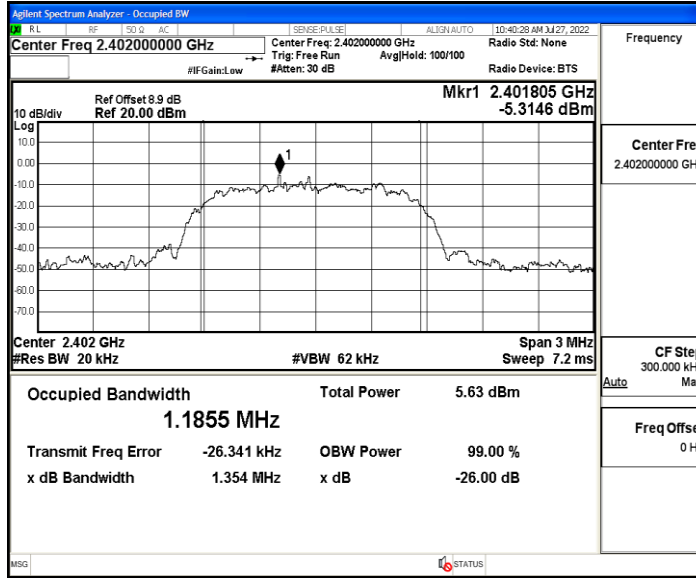
2DH5_Ant1_2441



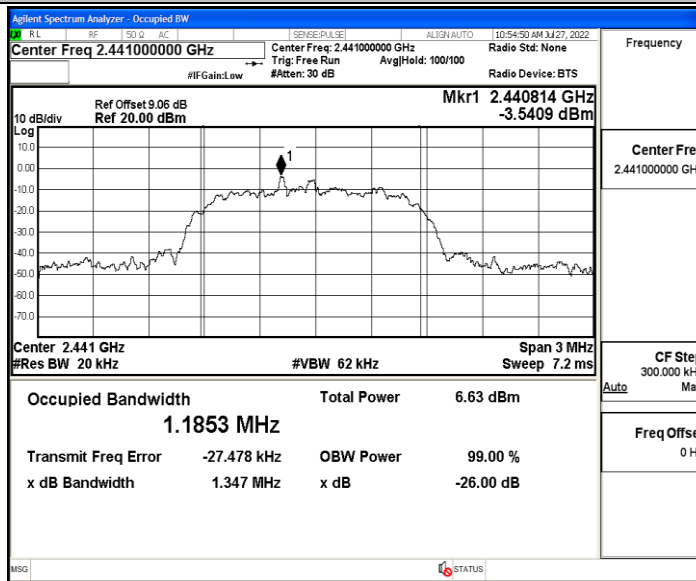
2DH5_Ant1_2480



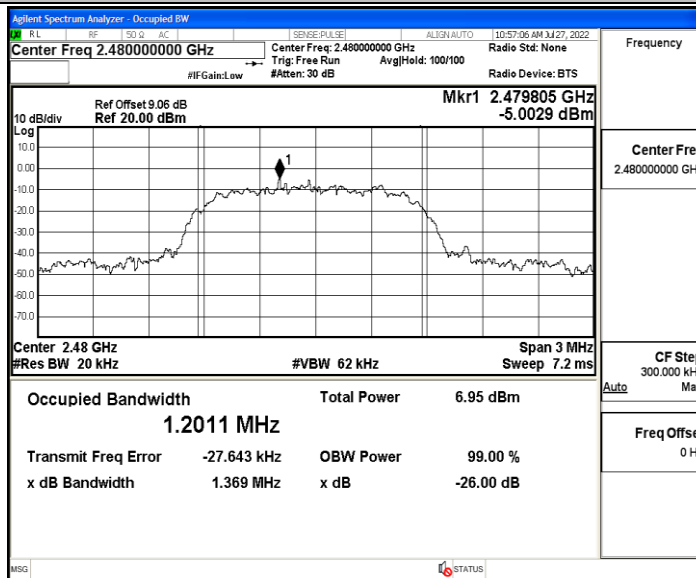
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

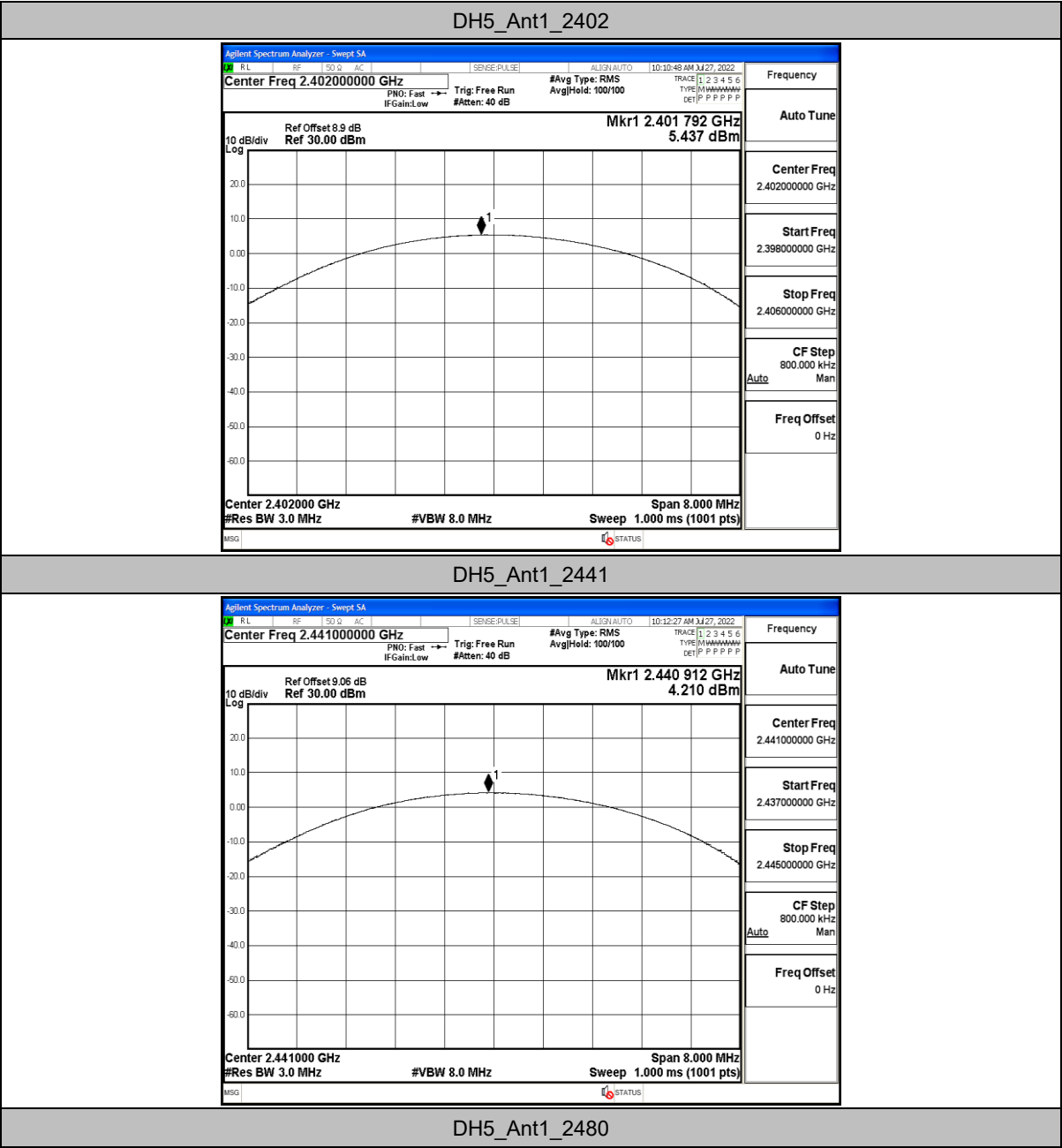


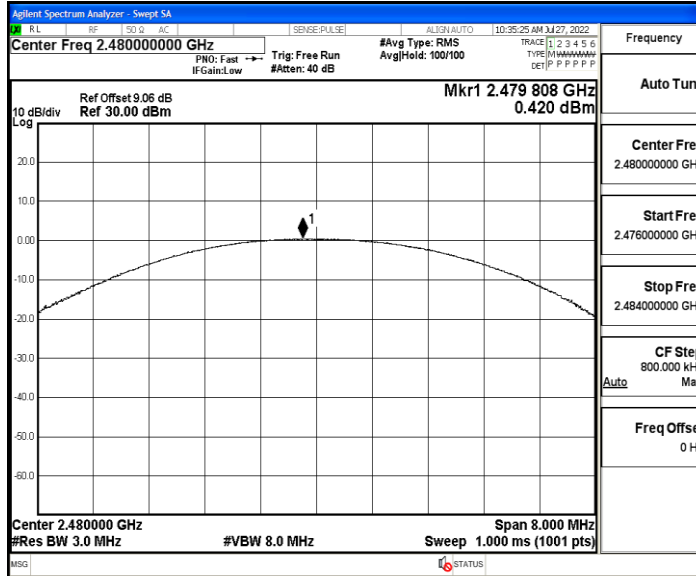
Appendix C: Maximum Peak conducted output power

Test Result

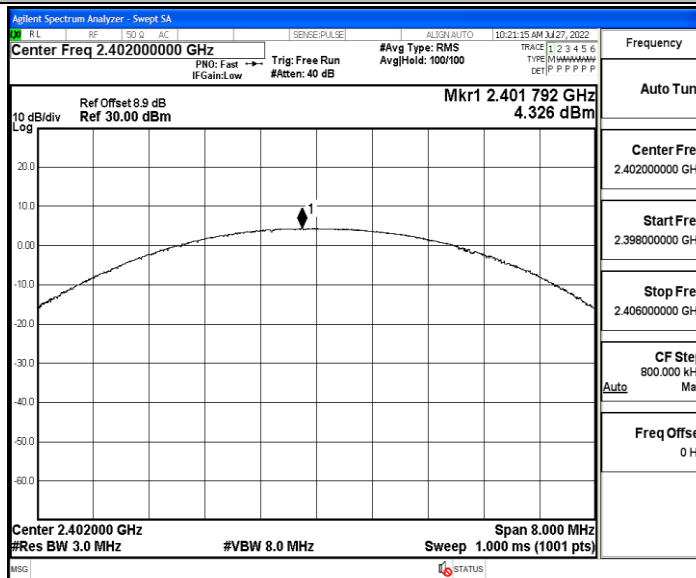
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	5.44	≤30	PASS
		2441	4.21	≤30	PASS
		2480	0.42	≤30	PASS
2DH5	Ant1	2402	4.33	≤20.97	PASS
		2441	3.8	≤20.97	PASS
		2480	3.58	≤20.97	PASS
3DH5	Ant1	2402	3.04	≤20.97	PASS
		2441	3.57	≤20.97	PASS
		2480	4.39	≤20.97	PASS

Test Graphs

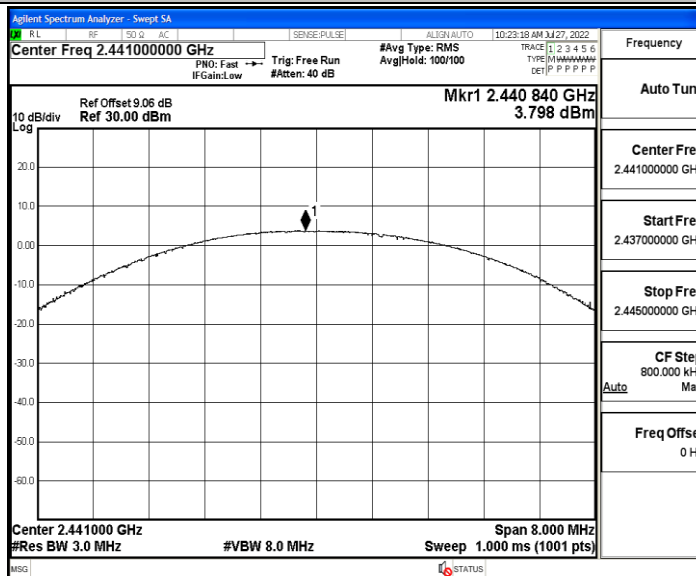




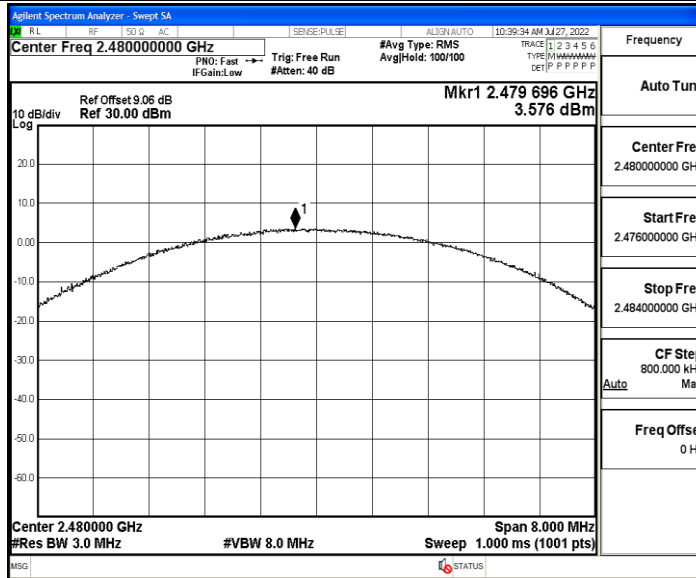
2DH5_Ant1_2402



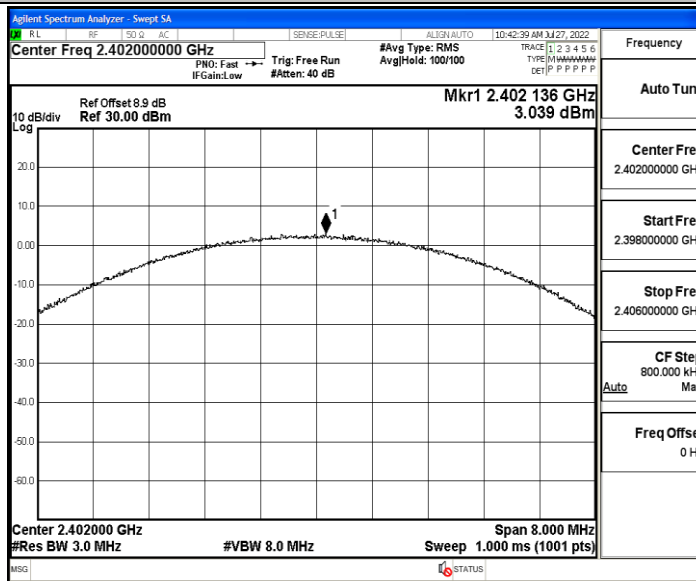
2DH5_Ant1_2441



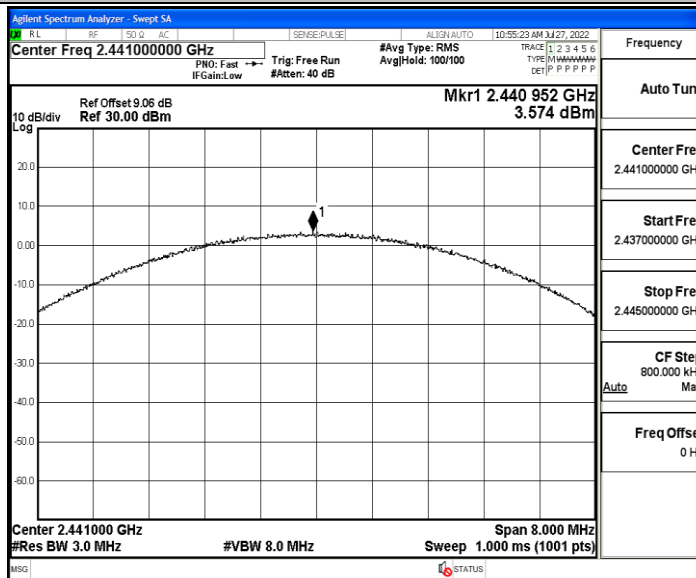
2DH5_Ant1_2480



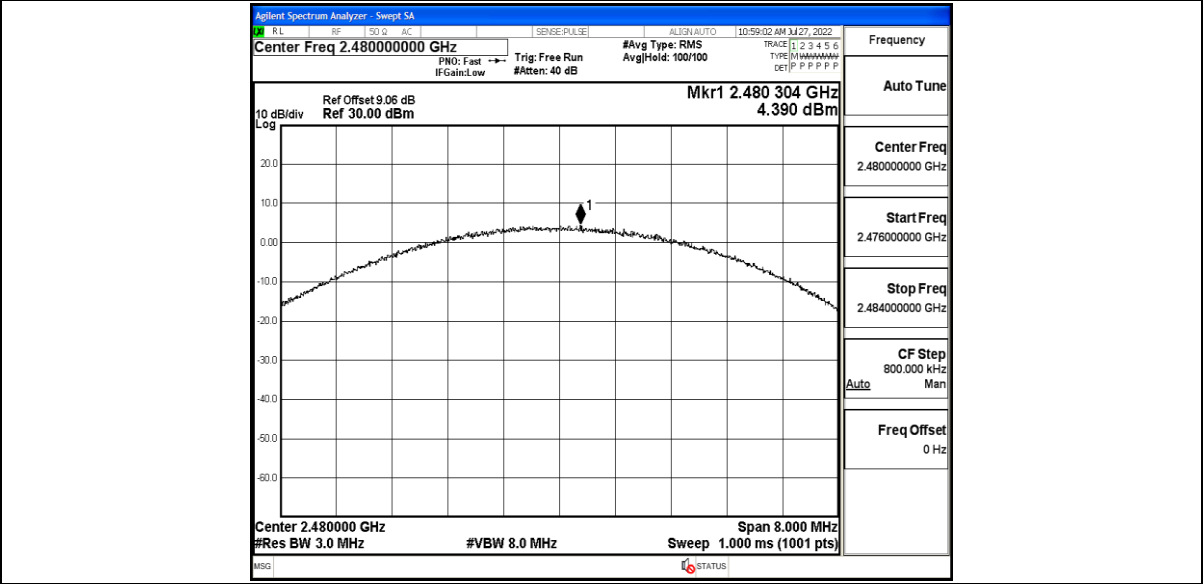
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

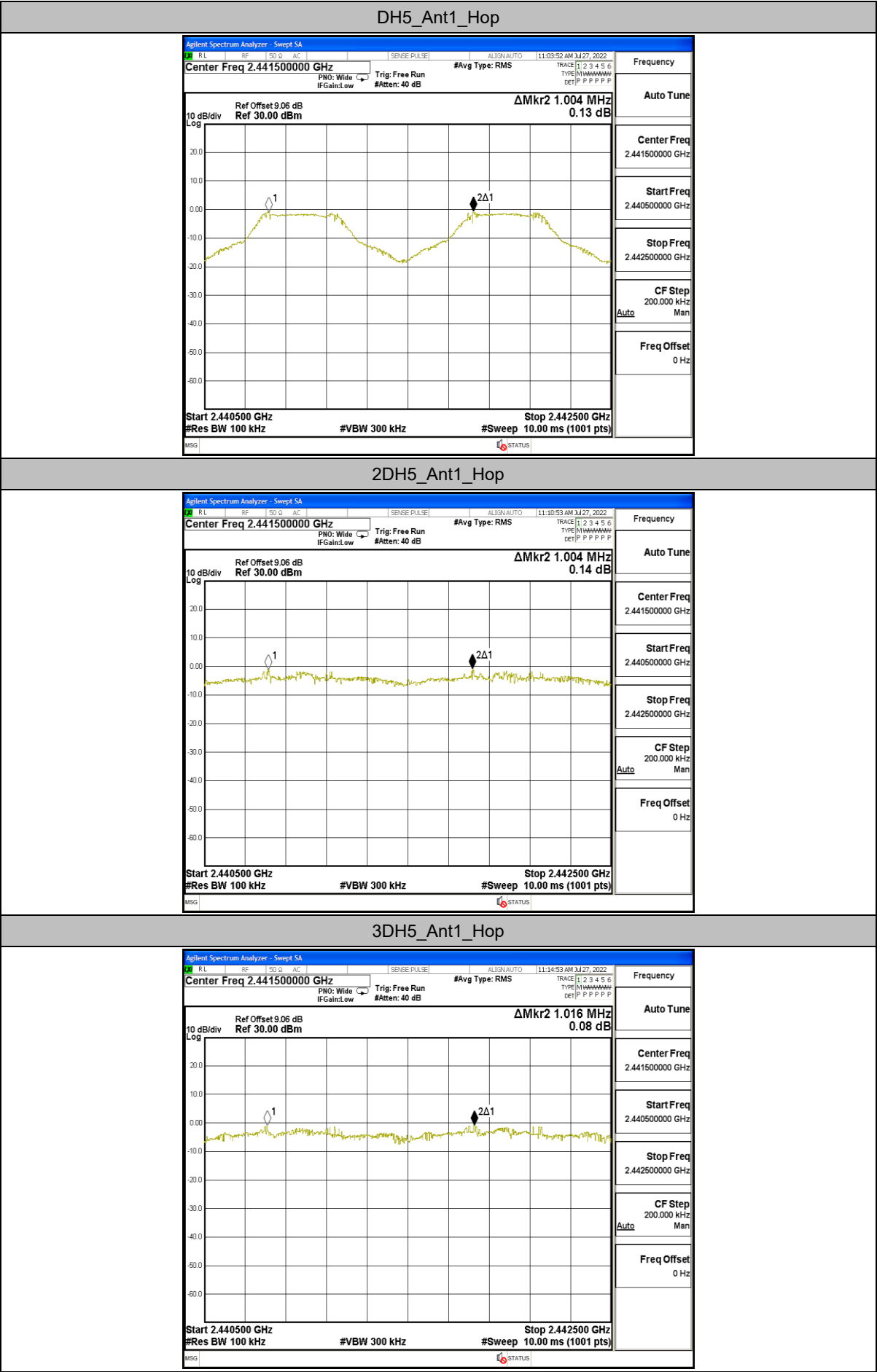


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	≥ 0.864	PASS
2DH5	Ant1	Hop	1.004	≥ 0.880	PASS
3DH5	Ant1	Hop	1.016	≥ 0.888	PASS

Test Graphs

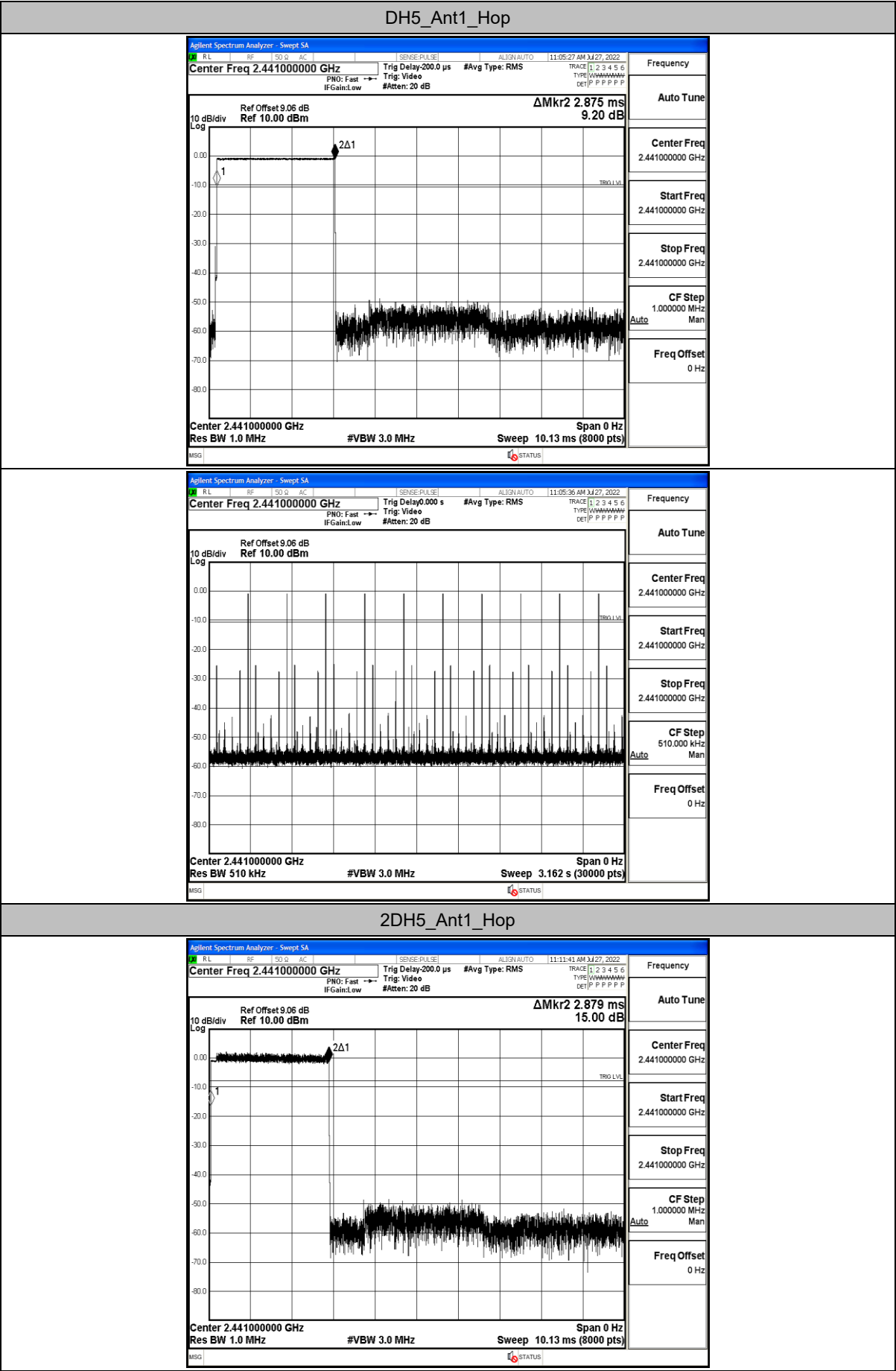


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	110	0.316	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS

Test Graphs



2DH5_Ant1_Hop

Agilent Spectrum Analyzer - Sweep SA

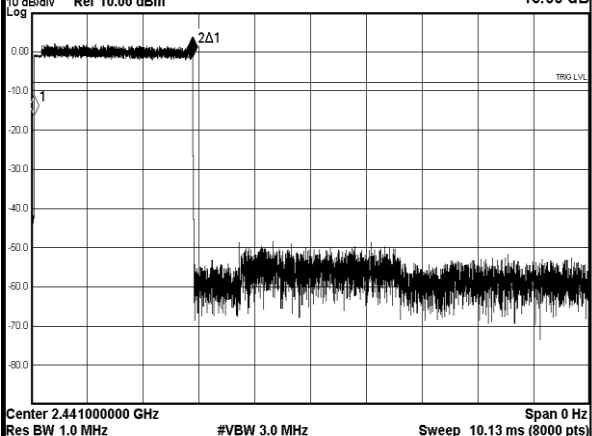
RLRF50 QACSENSE-PULSEALIGN AUTO11:11:41 AM 3/27/2022

Center Freq 2.441000000 GHzTrig Delay:200.0 μ s#Avg Type: RMS

PNO: FastIF Gain:LowTrig: Video#Atten: 20 dB

Ref Offset:9.06 dBRef 10.00 dBm

10 dB/divLog



Center 2.441000000 GHzRes BW 1.0 MHz#VBW 3.0 MHzSweep 10.13 ms (8000 pts)

MSGSTATUS

Frequency

Auto Tune

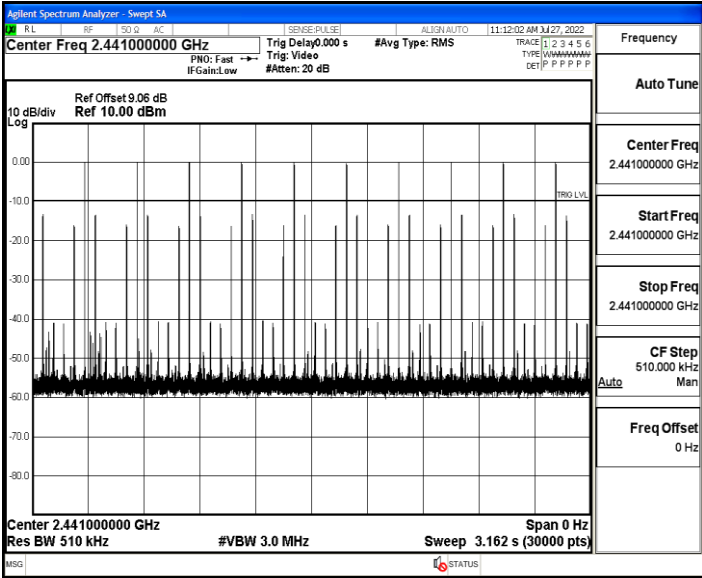
Center Freq2.441000000 GHz

Start Freq2.441000000 GHz

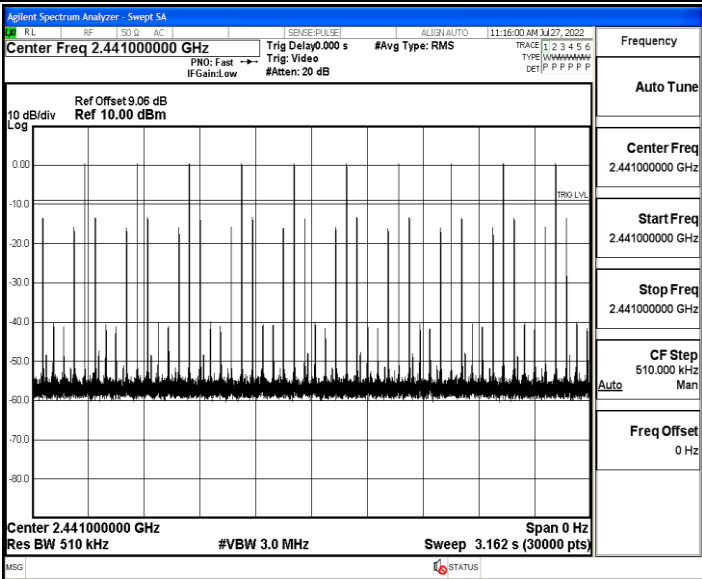
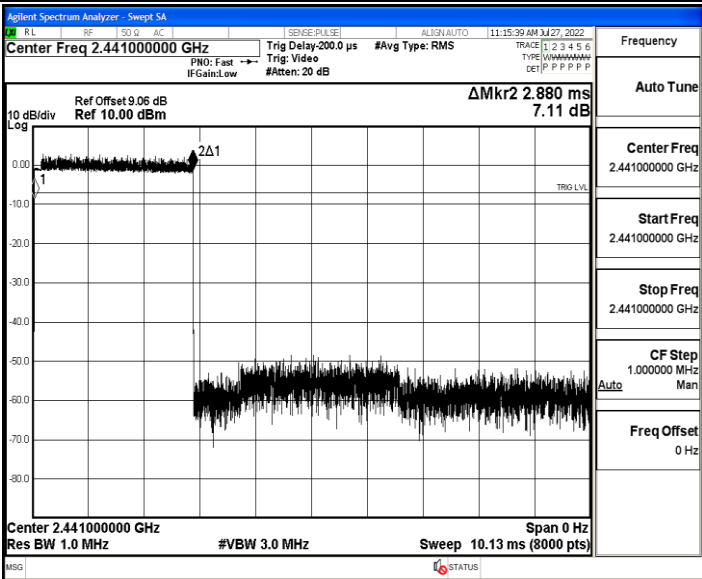
Stop Freq2.441000000 GHz

CF Step1.000000 MHzAuto

Freq Offset0 Hz



3DH5_Ant1_Hop



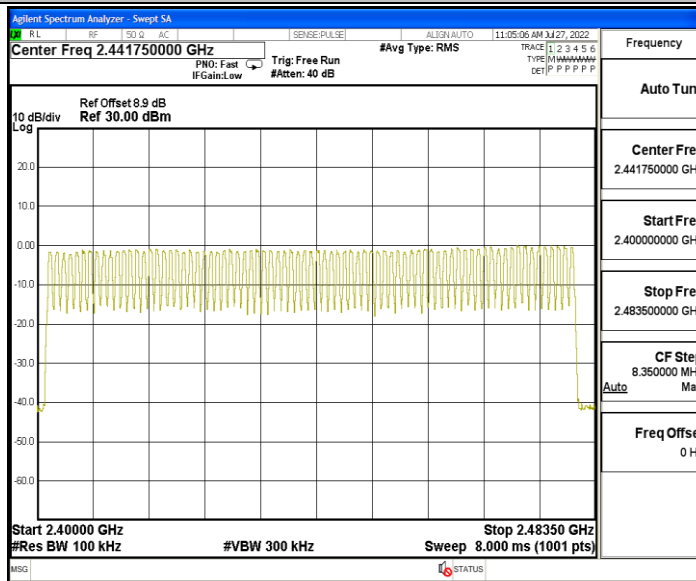
Appendix F: Number of hopping channels

Test Result

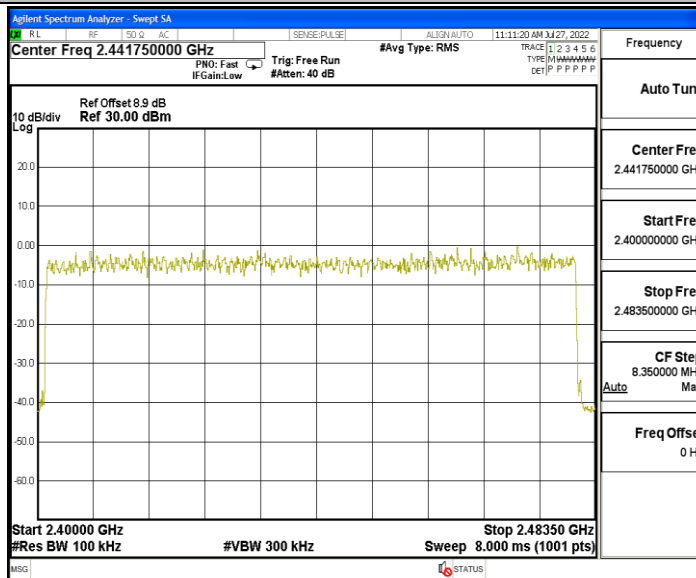
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

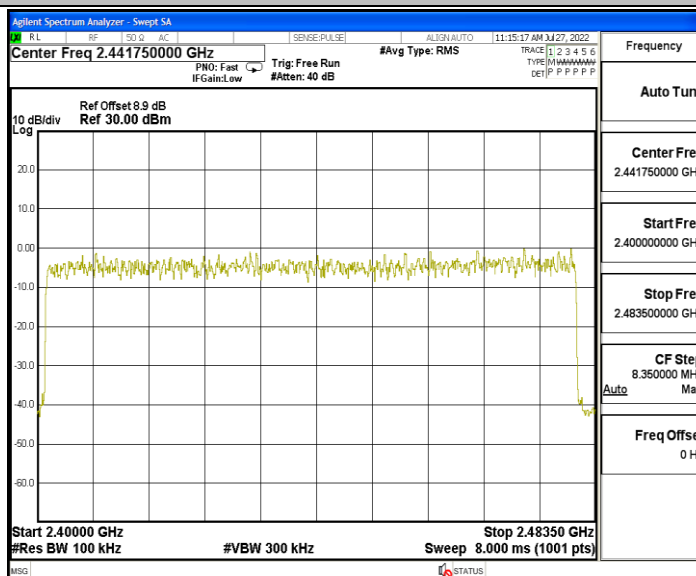
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



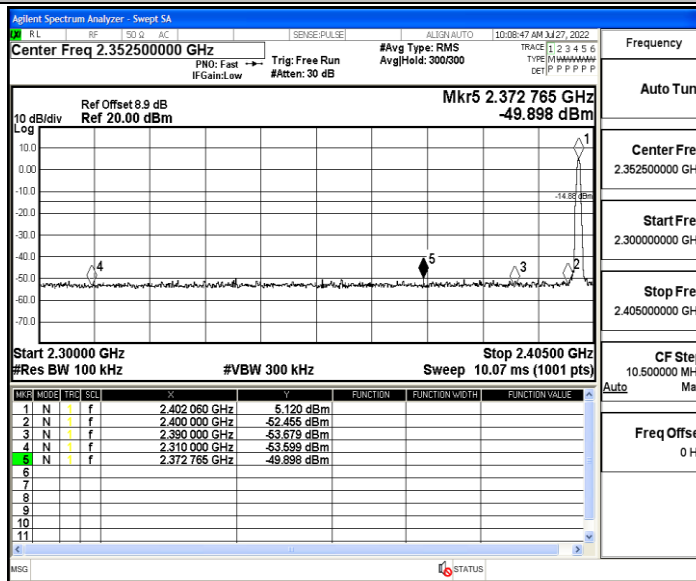
Appendix G: Band edge measurements

Test Result

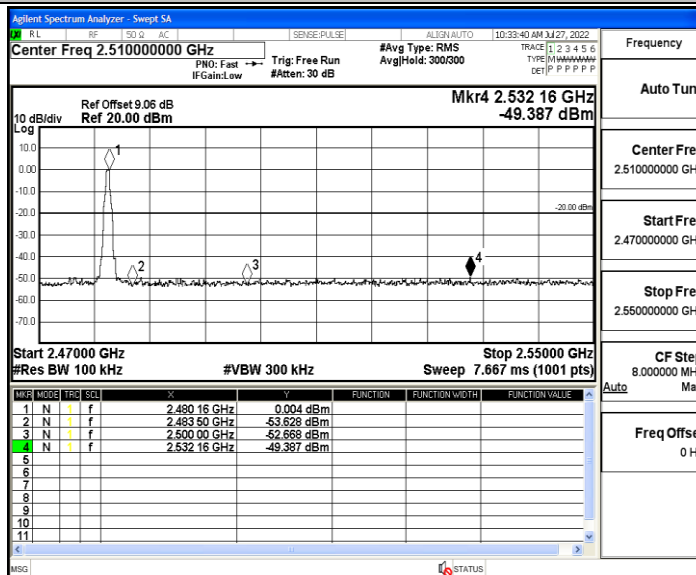
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.12	-49.9	≤ -14.88	PASS
		High	2480	0.00	-49.39	≤ -20	PASS
		Low	Hop_2402	-2.03	-47.85	≤ -22.03	PASS
		High	Hop_2480	-0.23	-47.88	≤ -20.23	PASS
2DH5	Ant1	Low	2402	2.00	-50.25	≤ -18	PASS
		High	2480	-0.03	-49.14	≤ -20.03	PASS
		Low	Hop_2402	-2.77	-49.71	≤ -22.77	PASS
		High	Hop_2480	-0.48	-49.35	≤ -20.48	PASS
3DH5	Ant1	Low	2402	-1.43	-48.42	≤ -21.43	PASS
		High	2480	-0.04	-49.39	≤ -20.04	PASS
		Low	Hop_2402	-3.78	-48.29	≤ -23.78	PASS
		High	Hop_2480	-0.70	-49.4	≤ -20.7	PASS

Test Graphs

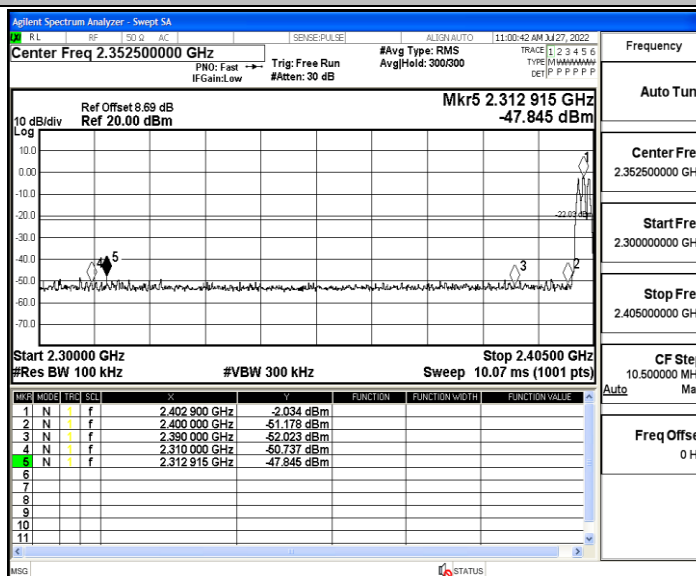
DH5_Ant1_Low_2402



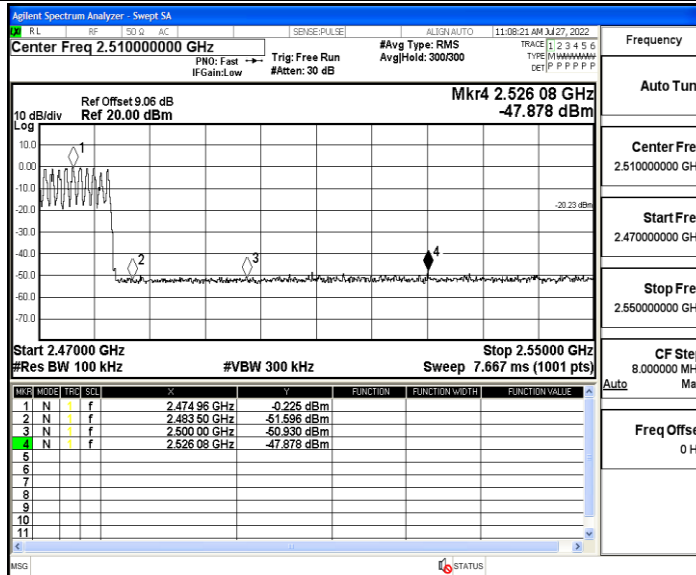
DH5_Ant1_High_2480



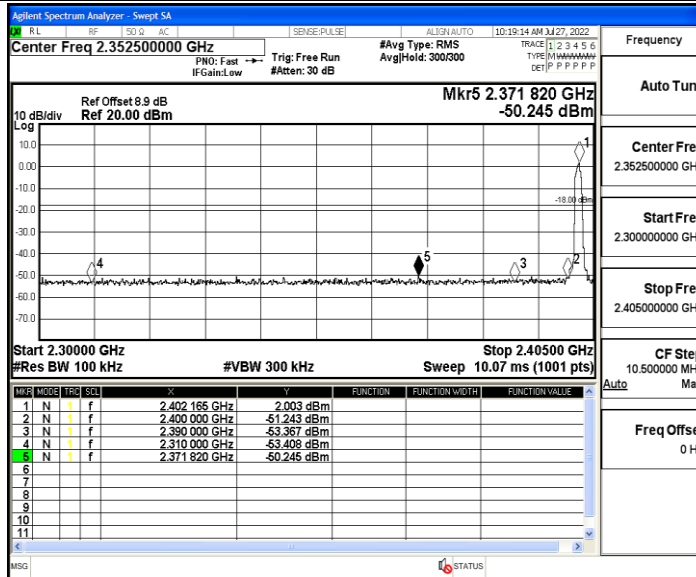
DH5_Ant1_Low_Hop_2402



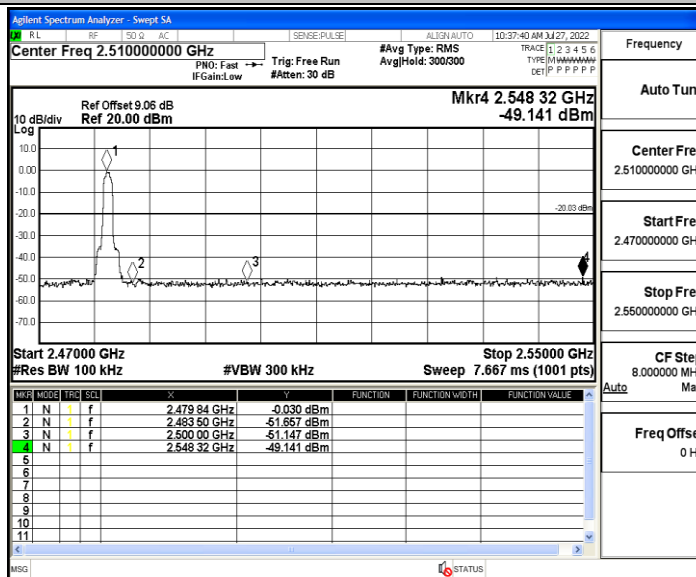
DH5_Ant1_High_Hop_2480



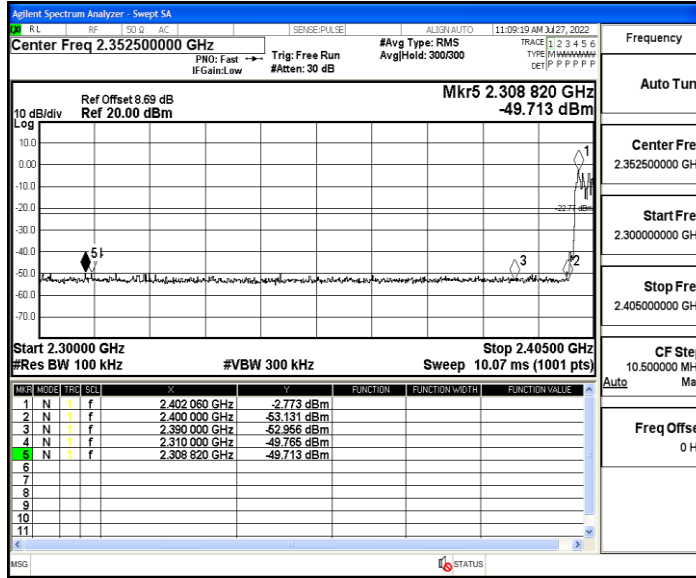
2DH5_Ant1_Low_2402



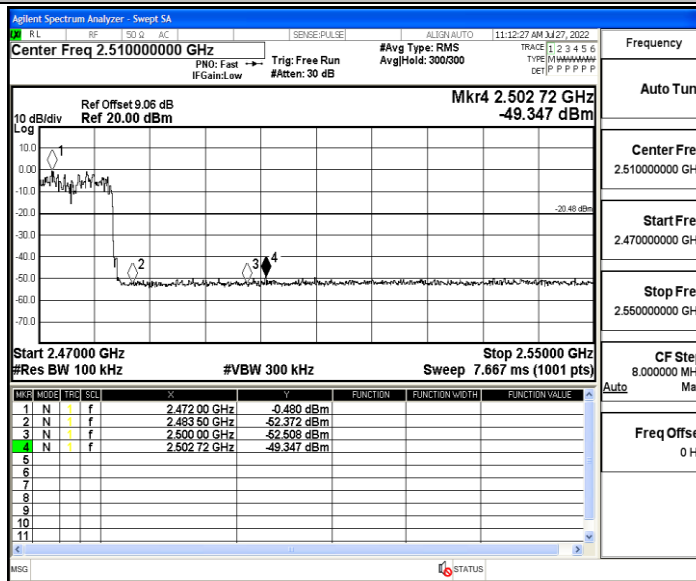
2DH5_Ant1_High_2480



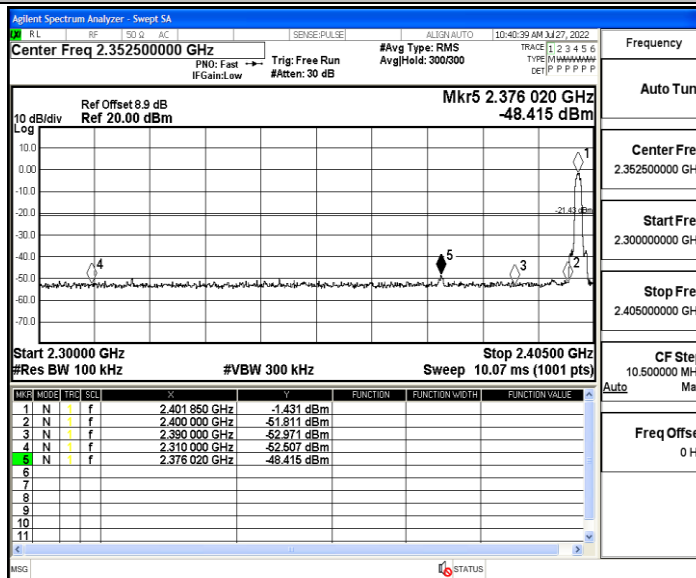
2DH5_Ant1_Low_Hop_2402



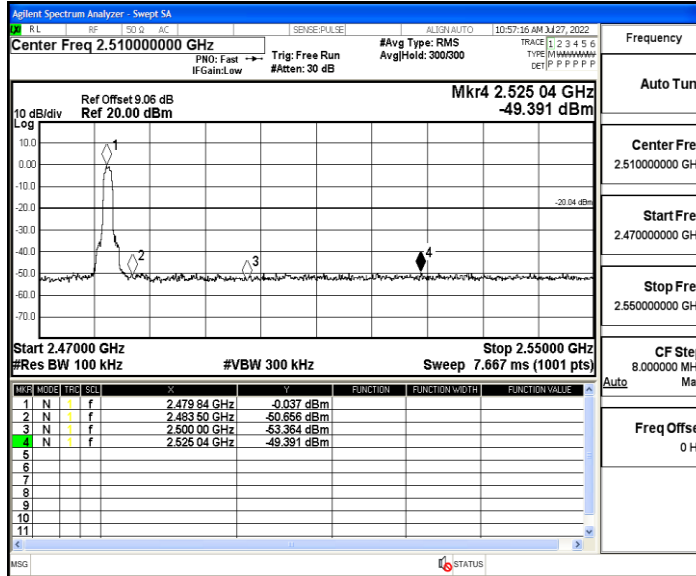
2DH5_Ant1_High_Hop_2480



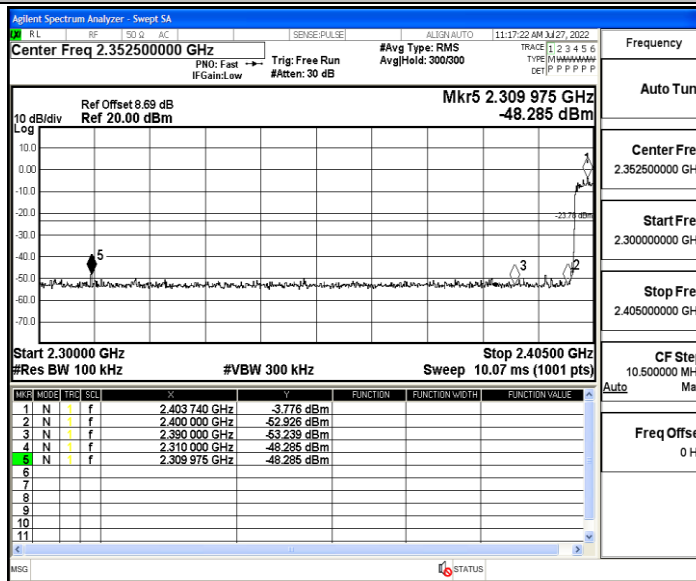
3DH5_Ant1_Low_2402



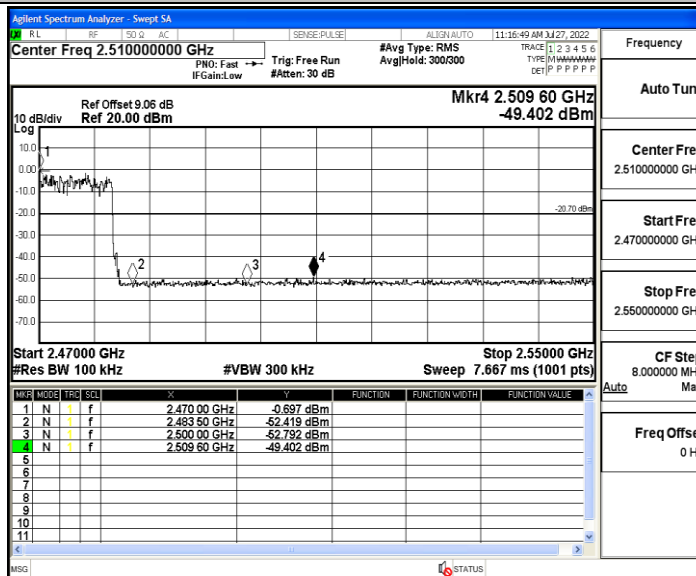
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



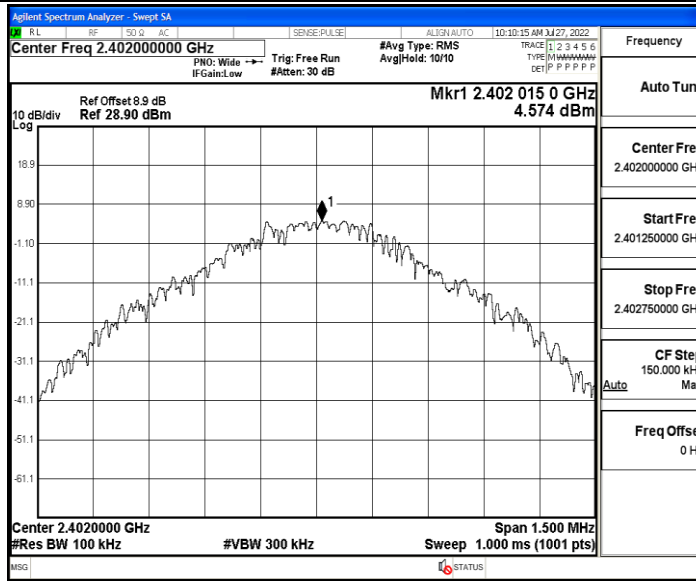
Appendix H: Conducted Spurious Emission

Test Result

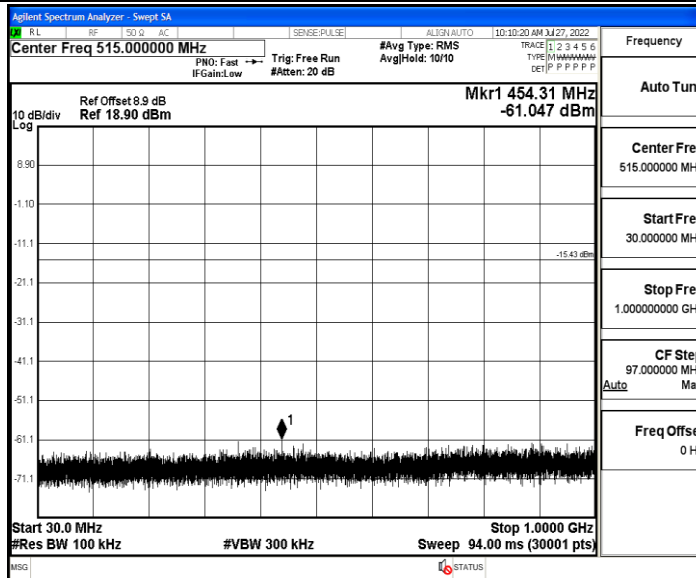
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.57	4.57	---	PASS
			30~1000	4.57	-61.05	≤-15.43	PASS
			1000~26500	4.57	-51.92	≤-15.43	PASS
		2441	Reference	3.66	3.66	---	PASS
			30~1000	3.66	-61.1	≤-16.34	PASS
			1000~26500	3.66	-51.69	≤-16.34	PASS
		2480	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-48.47	≤-20.54	PASS
			1000~26500	-0.54	-42.44	≤-20.54	PASS
2DH5	Ant1	2402	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-61.05	≤-20.45	PASS
			1000~26500	-0.45	-50.95	≤-20.45	PASS
		2441	Reference	2.26	2.26	---	PASS
			30~1000	2.26	-61	≤-17.74	PASS
			1000~26500	2.26	-51.55	≤-17.74	PASS
		2480	Reference	-3.35	-3.35	---	PASS
			30~1000	-3.35	-51.1	≤-23.35	PASS
			1000~26500	-3.35	-42.57	≤-23.35	PASS
3DH5	Ant1	2402	Reference	-3.15	-3.15	---	PASS
			30~1000	-3.15	-53.9	≤-23.15	PASS
			1000~26500	-3.15	-44.56	≤-23.15	PASS
		2441	Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-52.61	≤-21.86	PASS
			1000~26500	-1.86	-43.19	≤-21.86	PASS
		2480	Reference	-1.89	-1.89	---	PASS
			30~1000	-1.89	-48.07	≤-21.89	PASS
			1000~26500	-1.89	-42.86	≤-21.89	PASS

Test Graphs

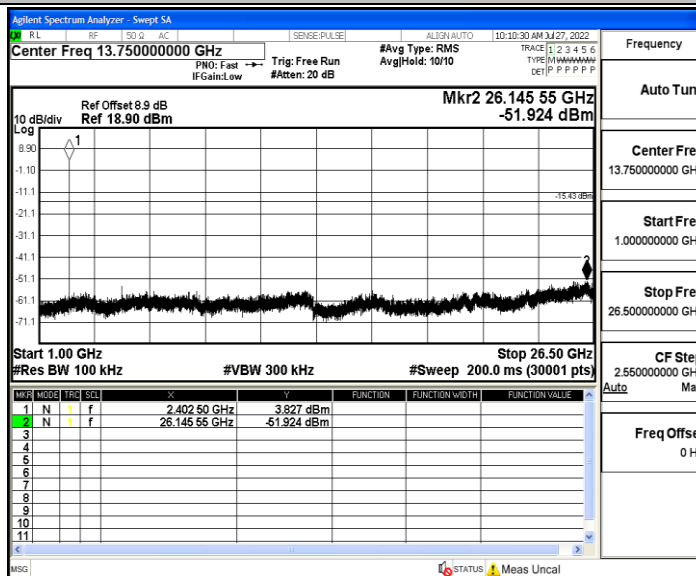
DH5_Ant1_2402_0~Reference



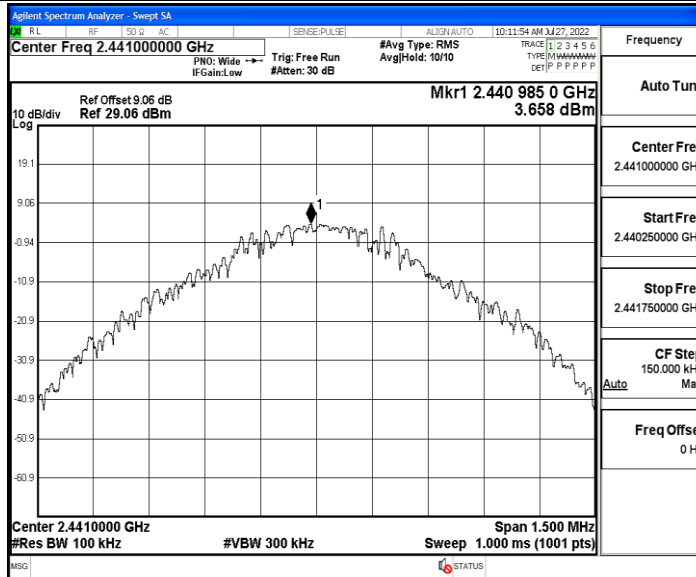
DH5_Ant1_2402_30~1000



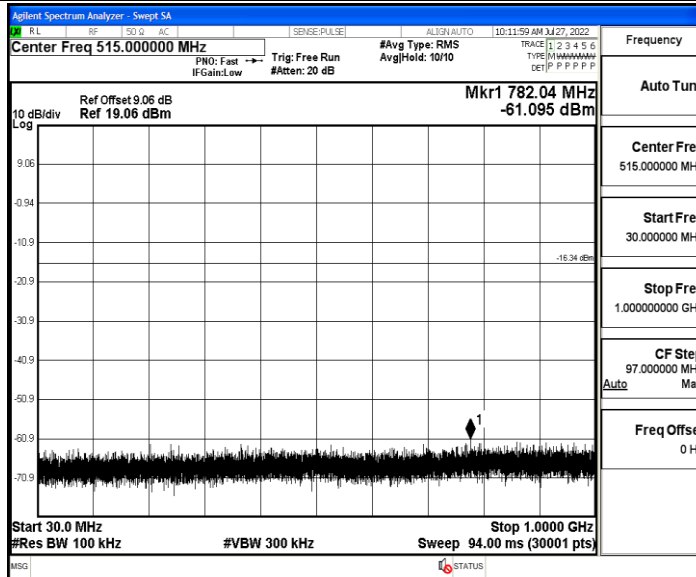
DH5_Ant1_2402_1000~26500



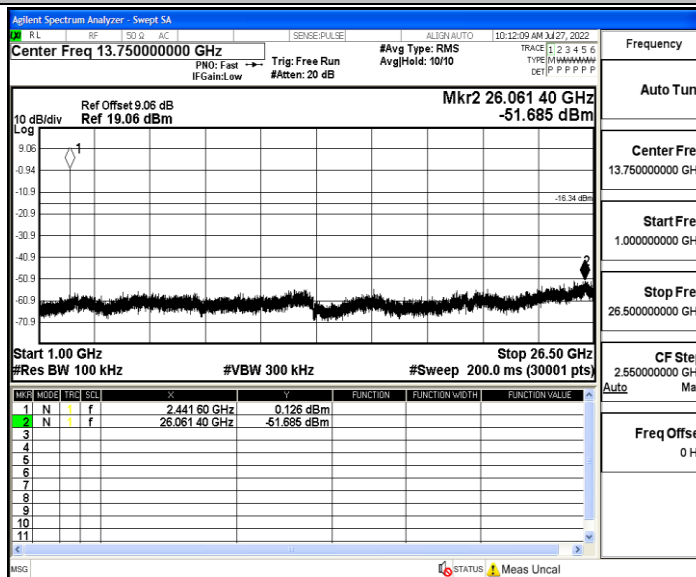
DH5_Ant1_2441_0~Reference



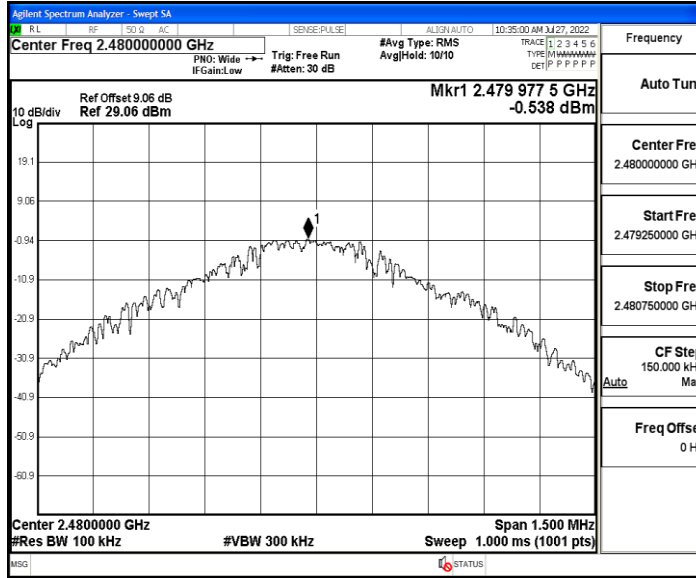
DH5_Ant1_2441_30~1000



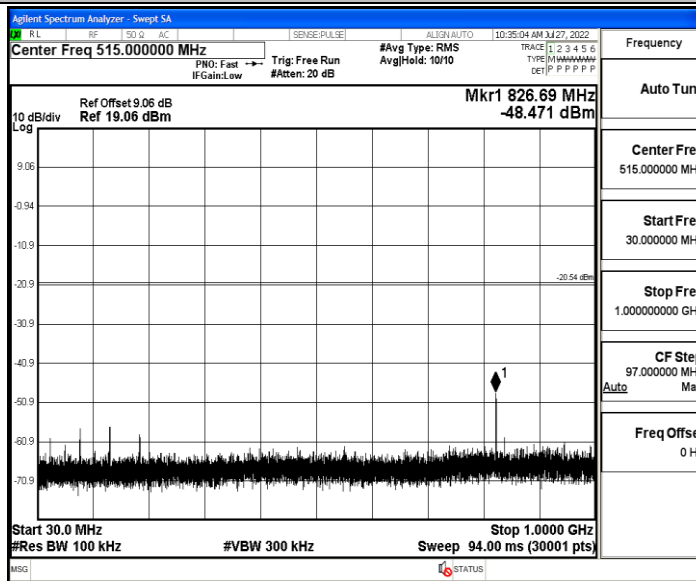
DH5_Ant1_2441_1000~26500



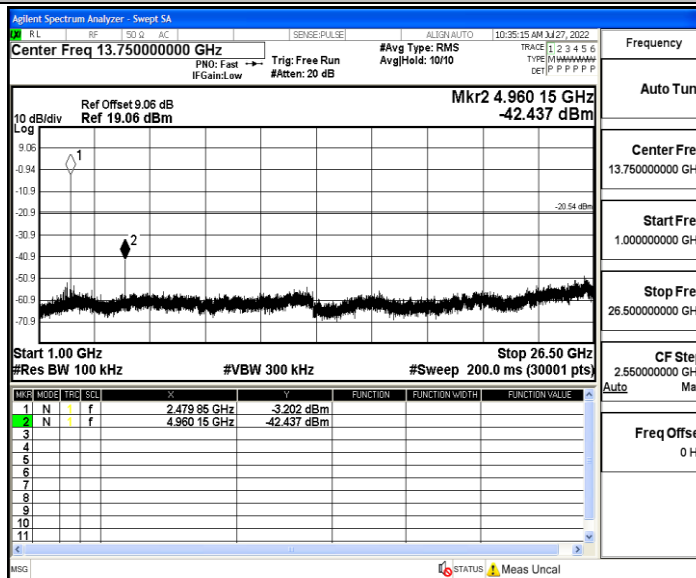
DH5_Ant1_2480_0~Reference



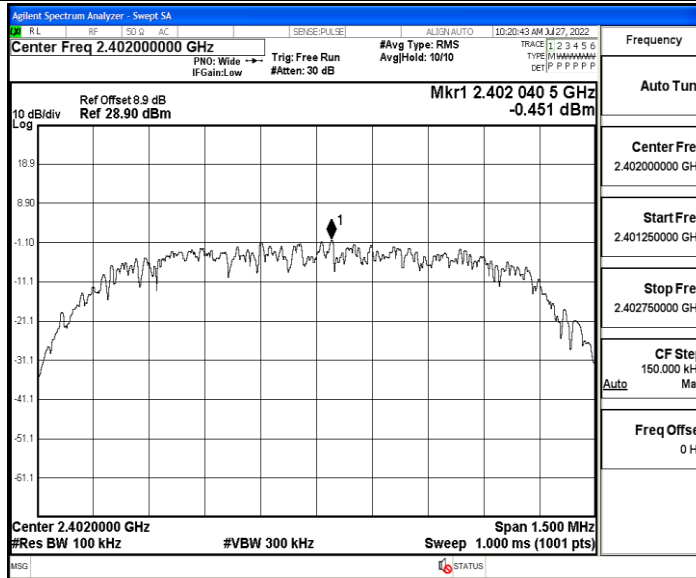
DH5_Ant1_2480_30~1000



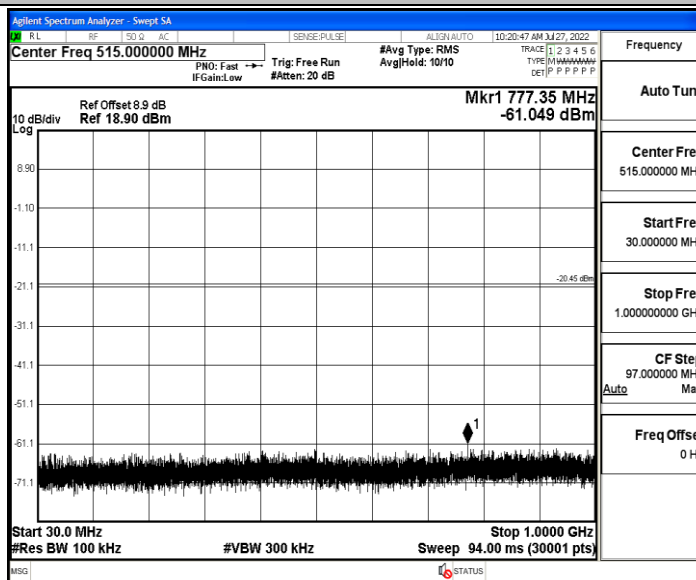
DH5_Ant1_2480_1000~26500



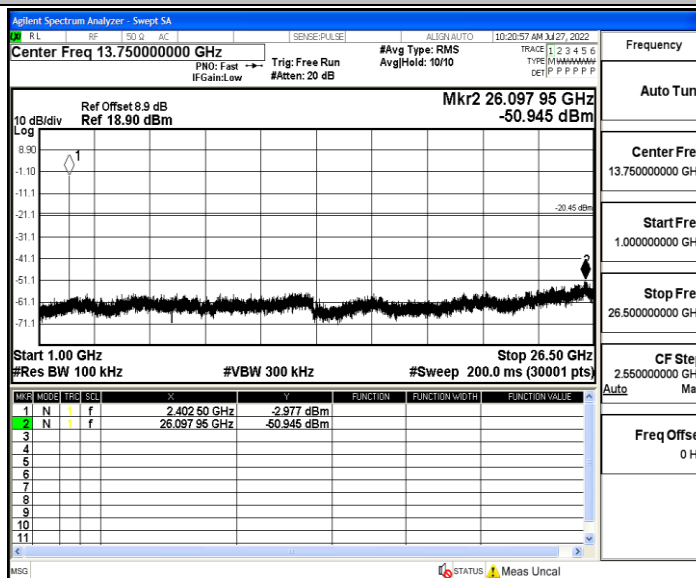
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference