

RF Test Data for BT(BDR/EDR) (Conducted Measurement)**Product Name: Bluetooth Headphone****Trade Mark: ALASKA BEAR****Test Model: AB01****FCC ID: 2A7UW-AB01****Environmental Conditions**

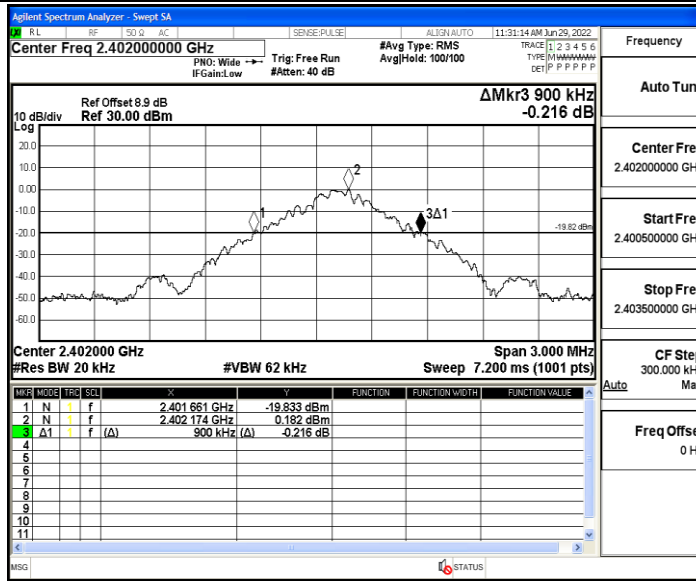
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

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

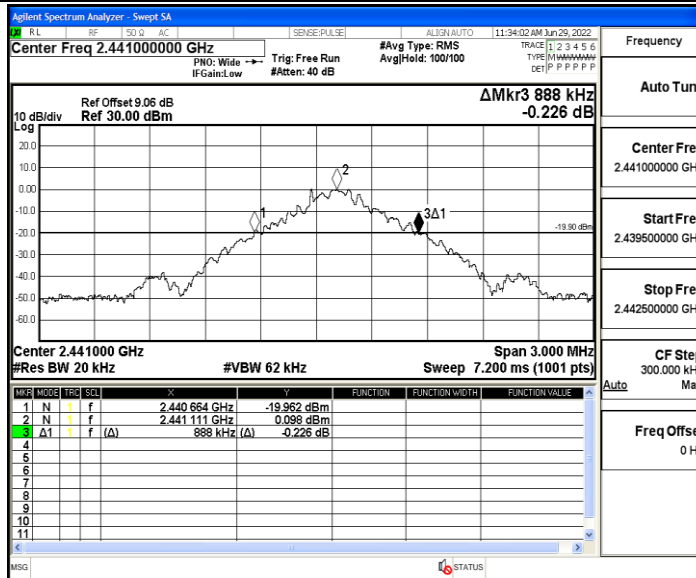
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.900	2401.661	2402.561	---	---
		2441	0.888	2440.664	2441.552	---	---
		2480	0.888	2479.664	2480.552	---	---
2DH5	Ant1	2402	1.212	2401.511	2402.723	---	---
		2441	1.197	2440.517	2441.714	---	---
		2480	1.206	2479.520	2480.726	---	---
3DH5	Ant1	2402	1.332	2401.445	2402.777	---	---
		2441	1.248	2440.481	2441.729	---	---
		2480	1.257	2479.478	2480.735	---	---

Test Graphs

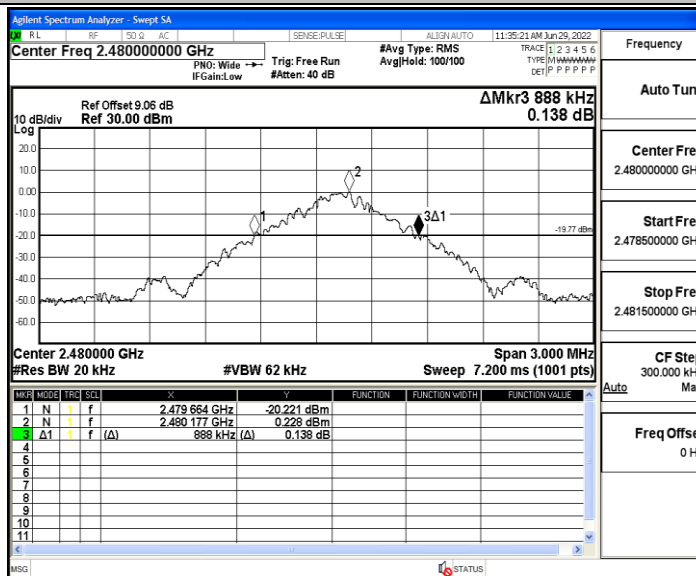
DH5_Ant1_2402



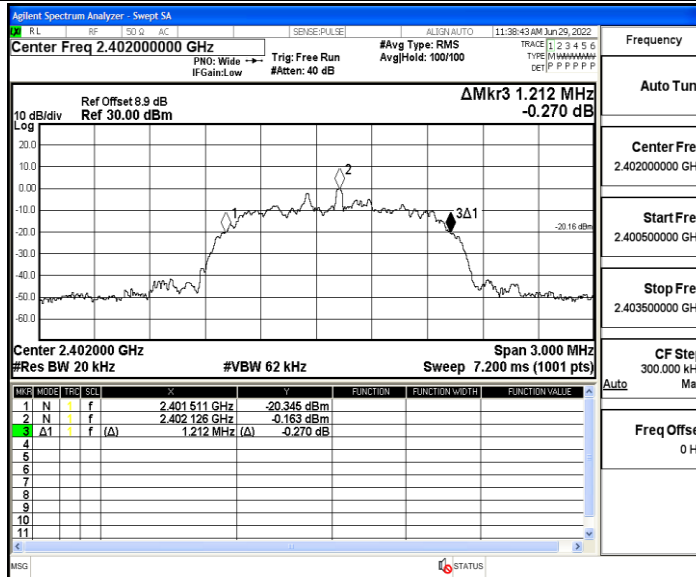
DH5_Ant1_2441



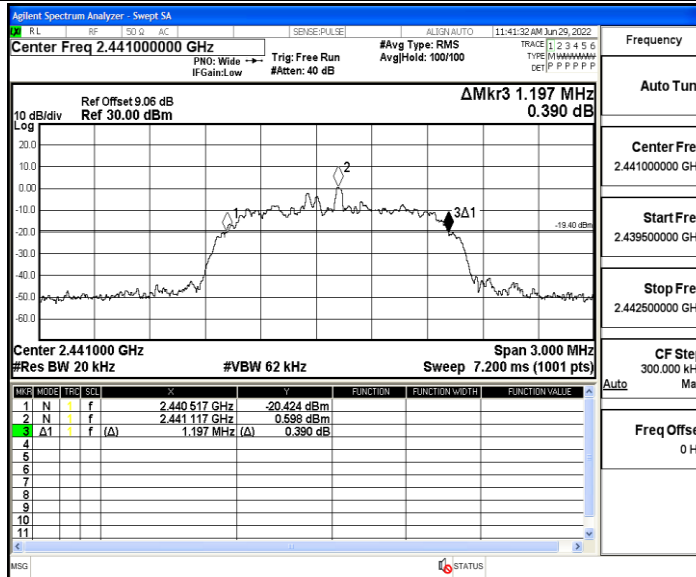
DH5_Ant1_2480



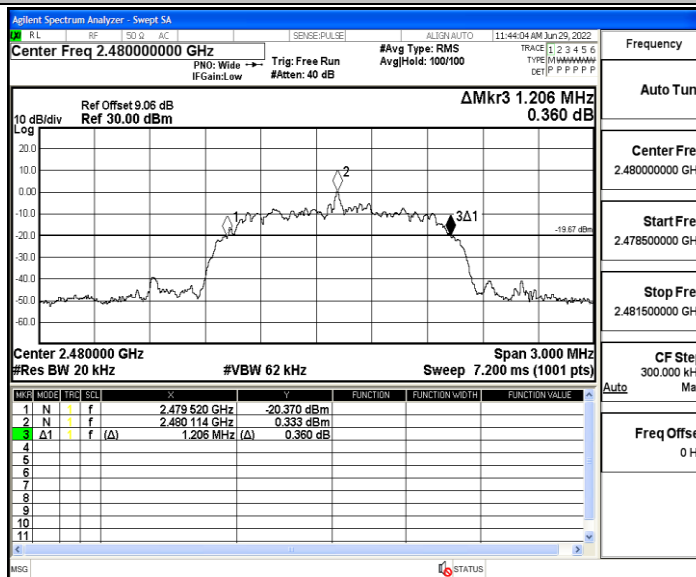
2DH5_Ant1_2402



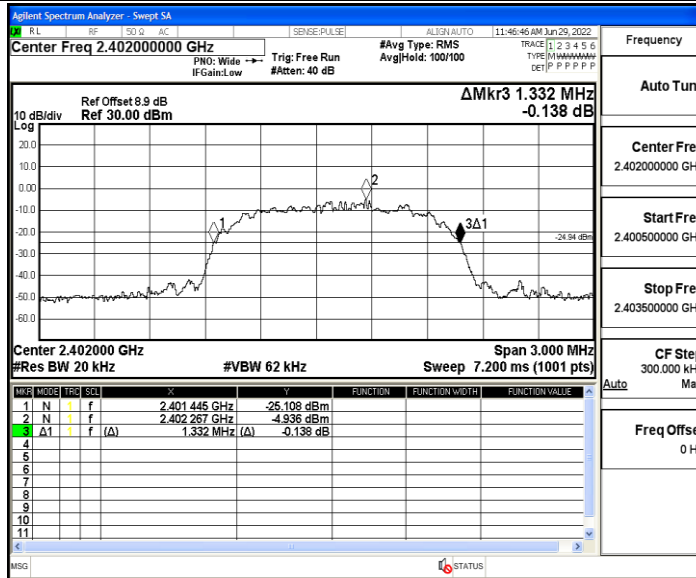
2DH5_Ant1_2441



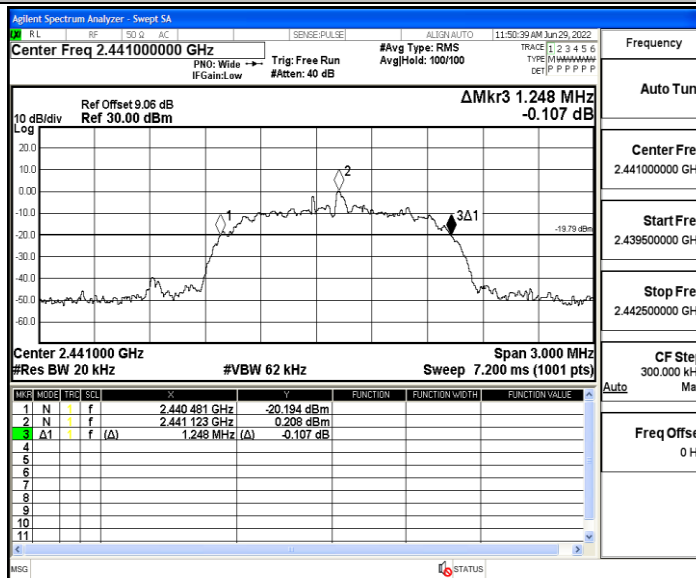
2DH5_Ant1_2480



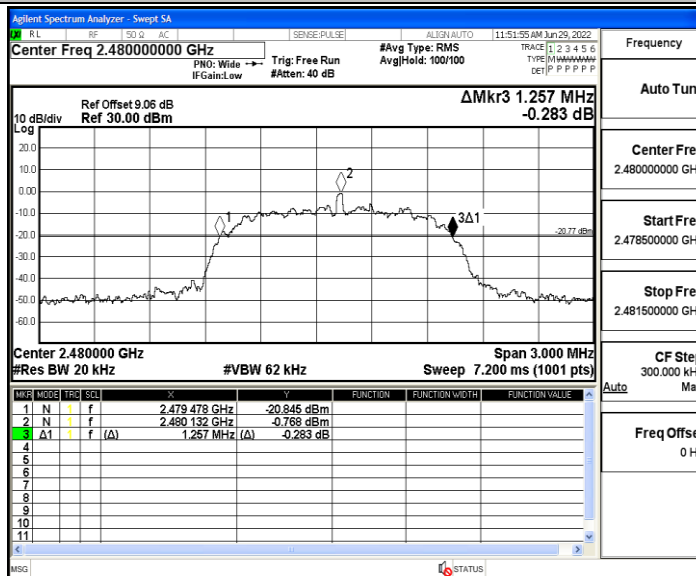
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



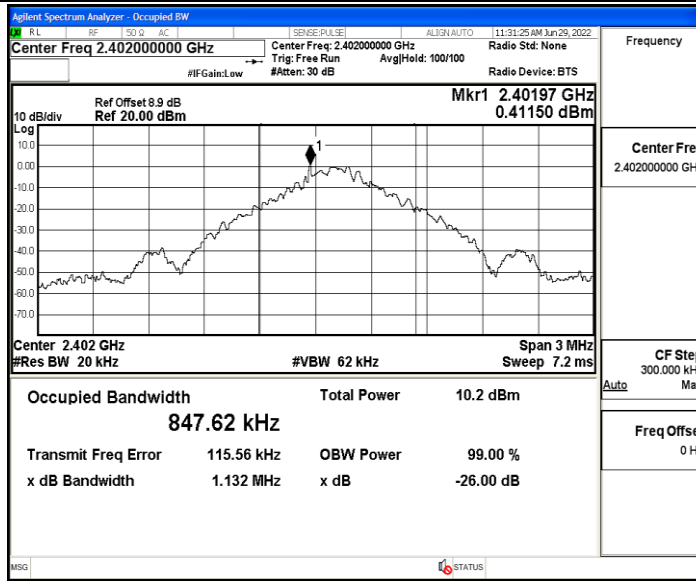
Appendix B: Occupied Channel Bandwidth

Test Result

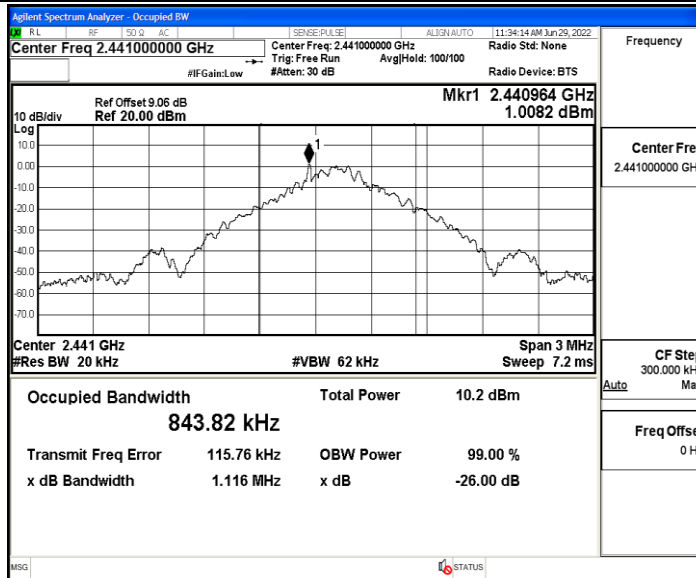
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.84762	2401.692	2402.539	---	---
		2441	0.84382	2440.694	2441.538	---	---
		2480	0.82261	2479.707	2480.529	---	---
2DH5	Ant1	2402	1.1650	2401.530	2402.695	---	---
		2441	1.1691	2440.531	2441.700	---	---
		2480	1.1673	2479.534	2480.701	---	---
3DH5	Ant1	2402	1.1506	2401.539	2402.690	---	---
		2441	1.1777	2440.524	2441.701	---	---
		2480	1.1542	2479.541	2480.696	---	---

Test Graphs

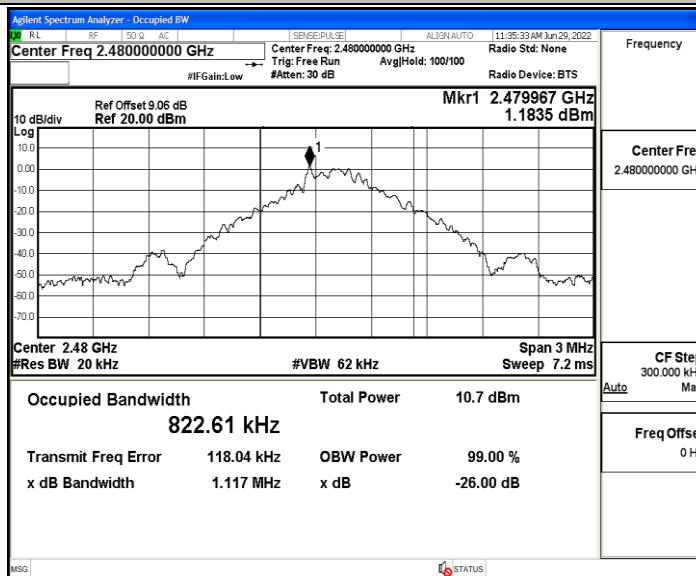
DH5_Ant1_2402



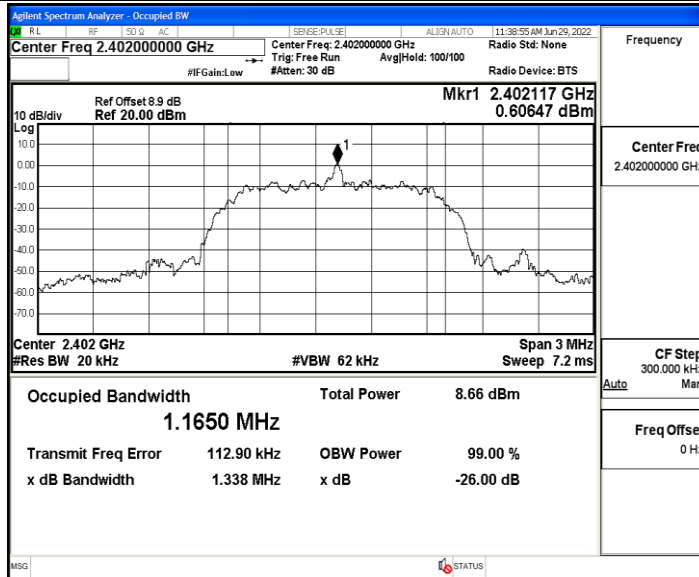
DH5_Ant1_2441



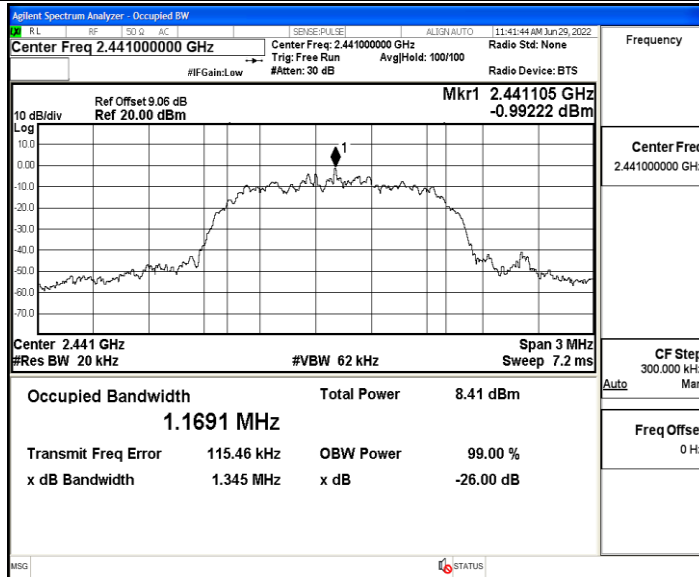
DH5_Ant1_2480



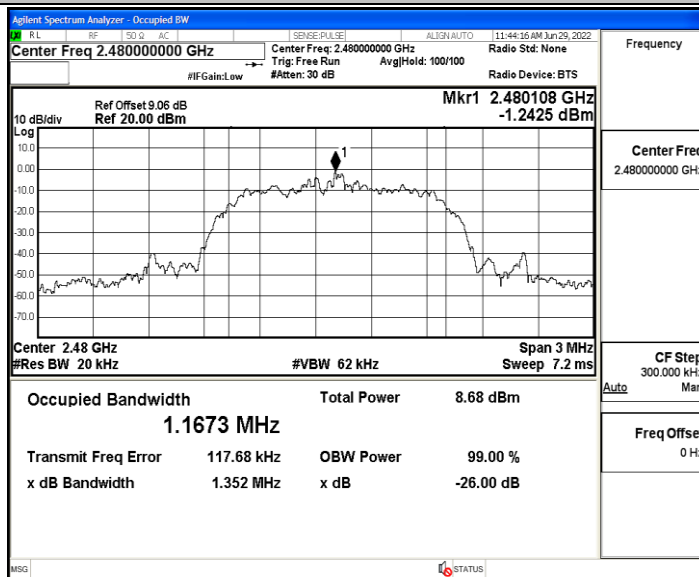
2DH5_Ant1_2402



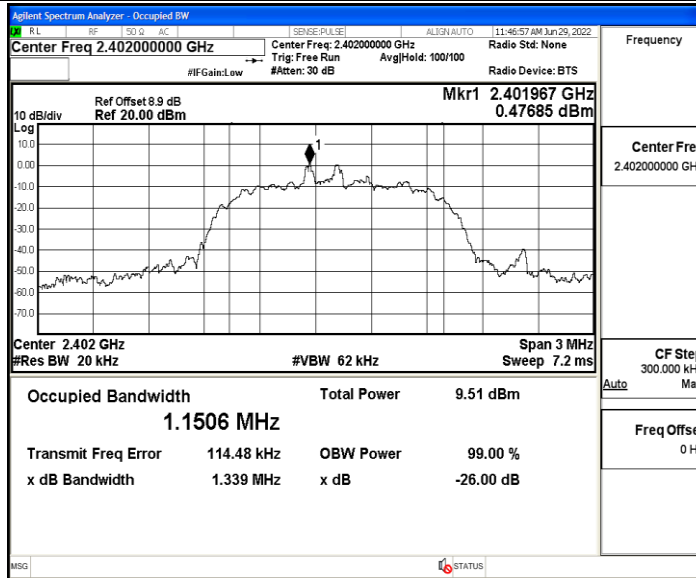
2DH5_Ant1_2441



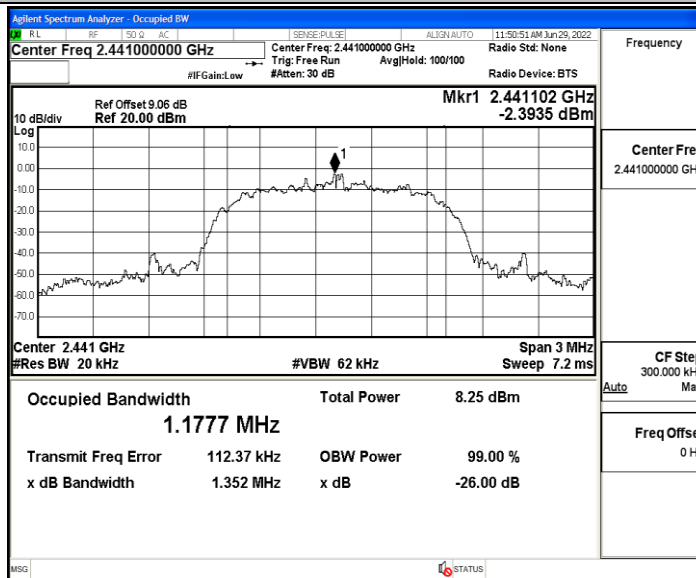
2DH5_Ant1_2480



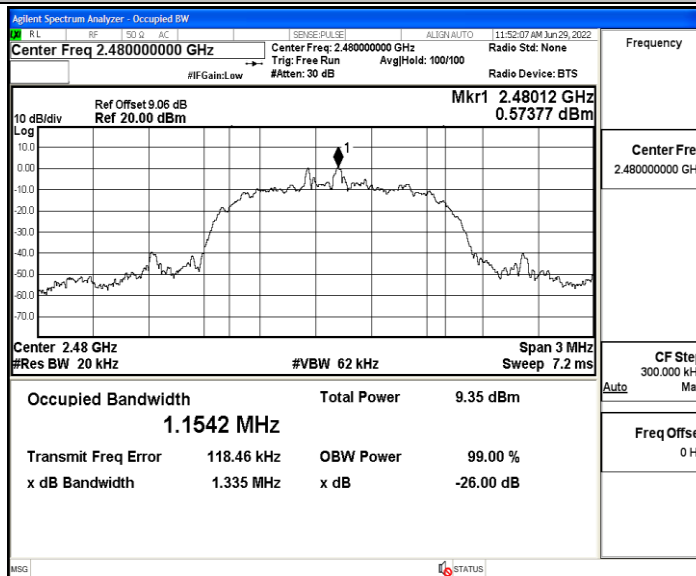
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



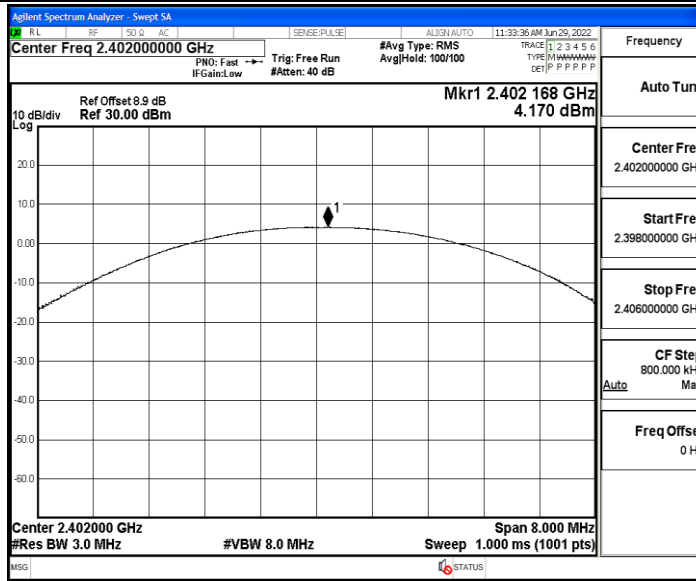
Appendix C: Maximum conducted output power

Test Result

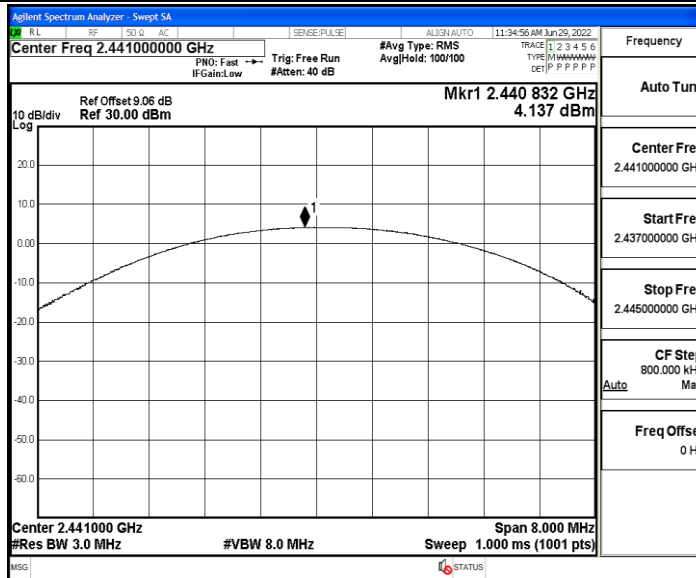
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	4.17	≤30	PASS
		2441	4.14	≤30	PASS
		2480	4.32	≤30	PASS
2DH5	Ant1	2402	4.15	≤20.97	PASS
		2441	4.07	≤20.97	PASS
		2480	4.19	≤20.97	PASS
3DH5	Ant1	2402	4.37	≤20.97	PASS
		2441	4.4	≤20.97	PASS
		2480	4.47	≤20.97	PASS

Test Graphs

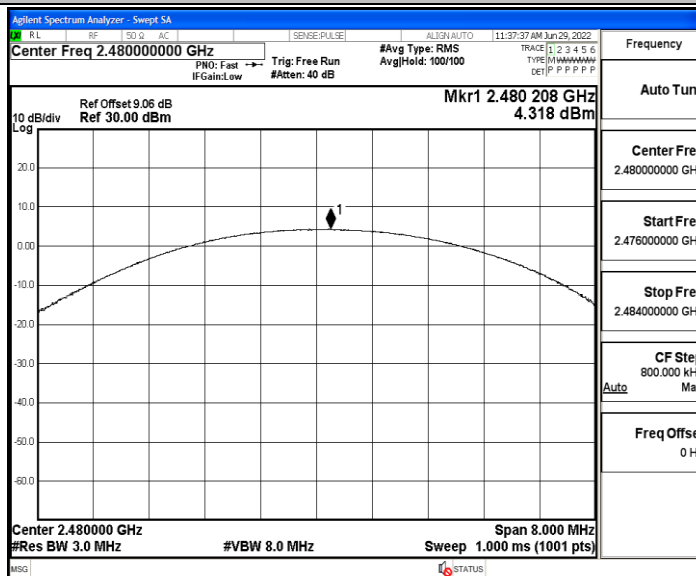
DH5_Ant1_2402



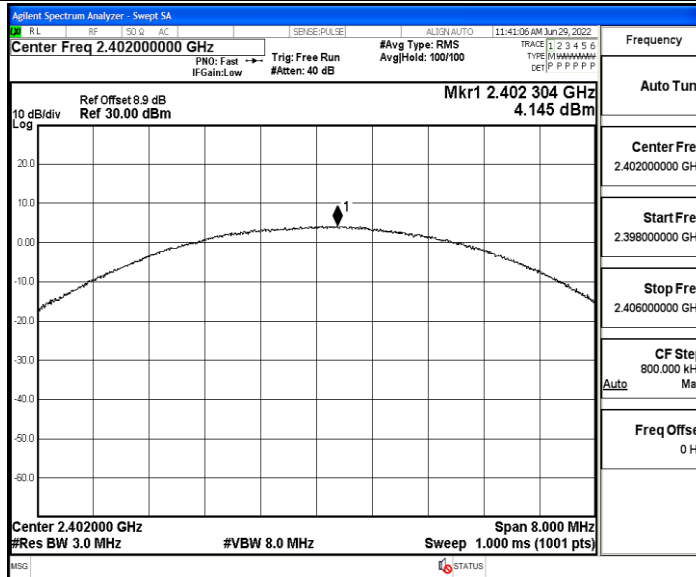
DH5_Ant1_2441



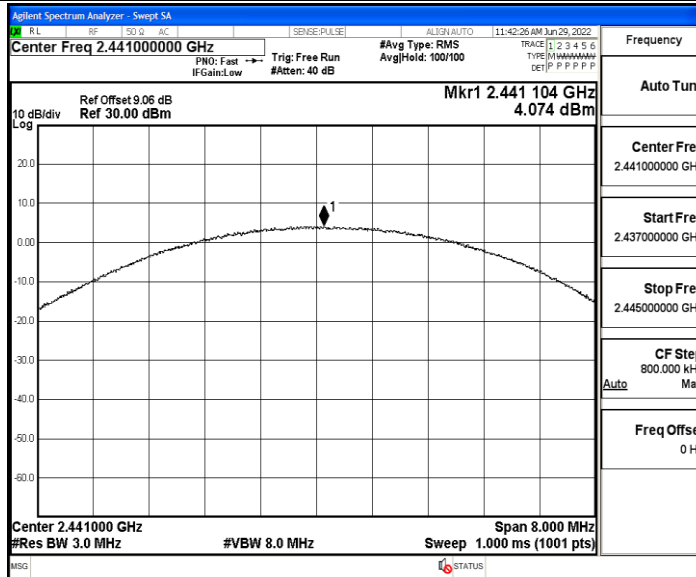
DH5_Ant1_2480



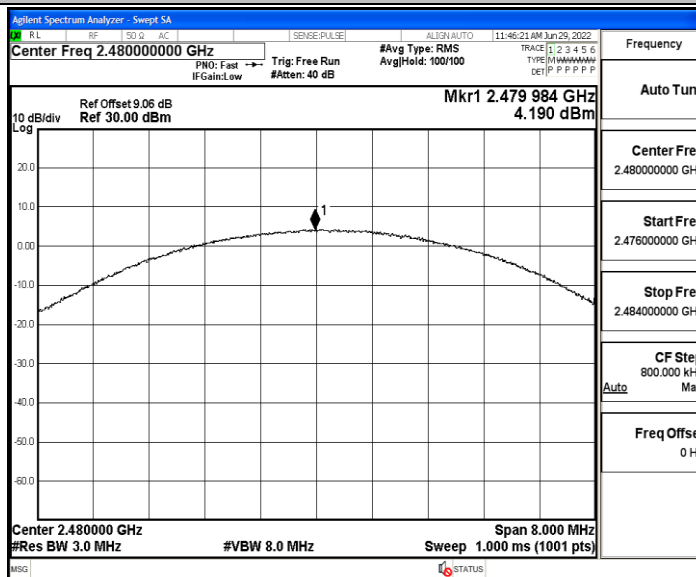
2DH5_Ant1_2402



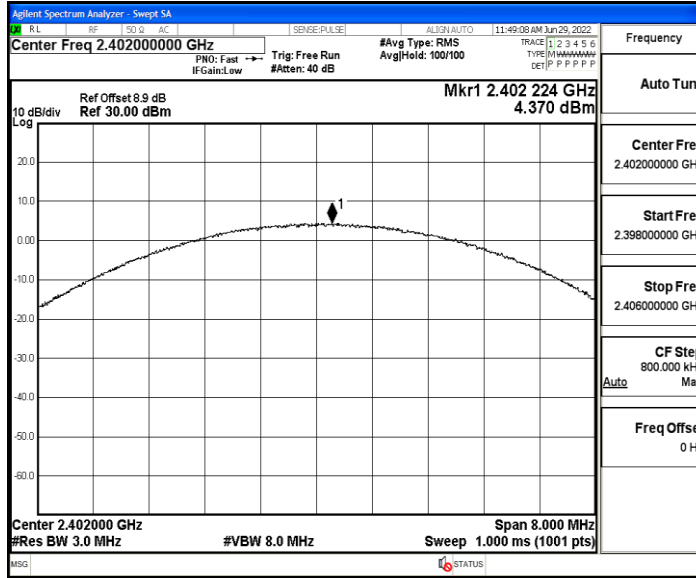
2DH5_Ant1_2441



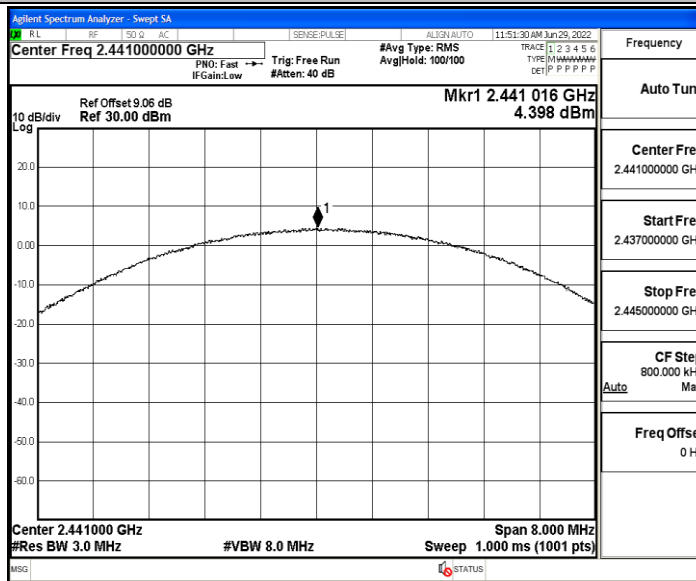
2DH5_Ant1_2480



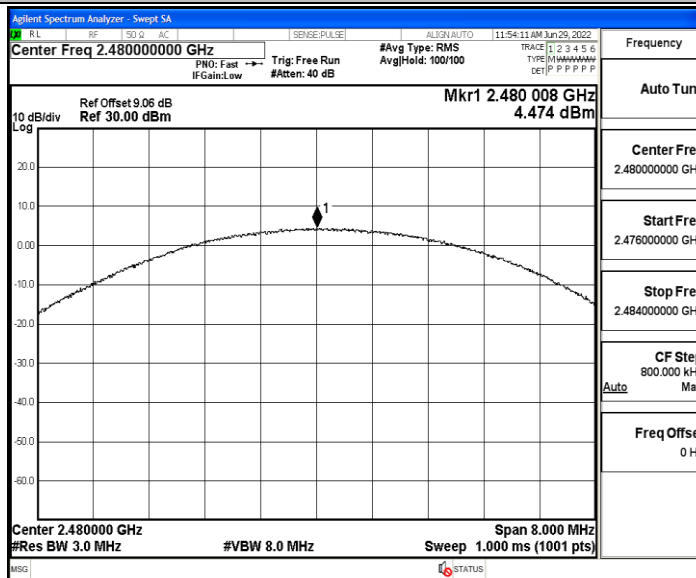
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



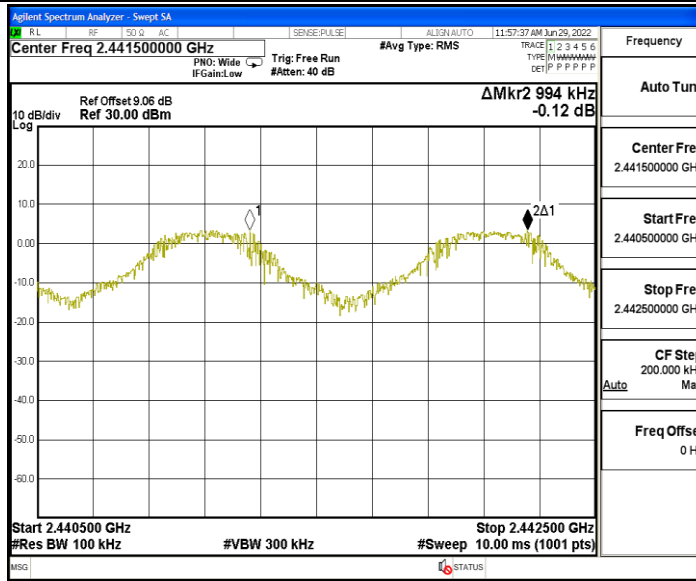
Appendix D: Carrier frequency separation

Test Result

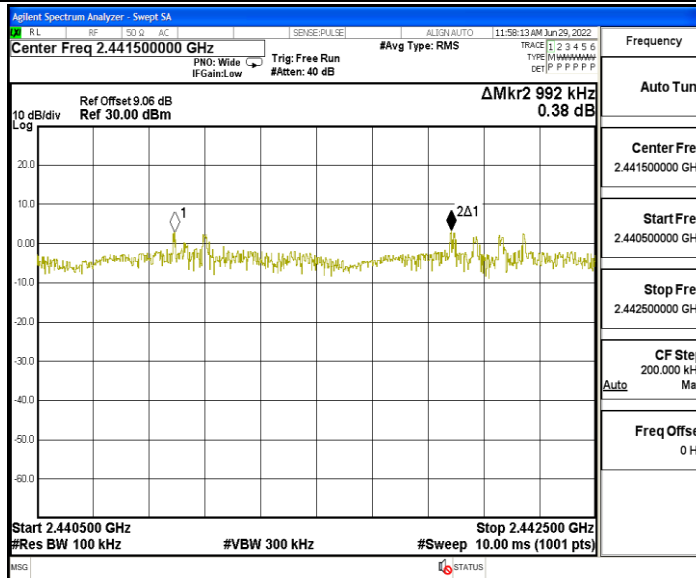
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.994	≥0.900	PASS
2DH5	Ant1	Hop	0.992	≥0.808	PASS
3DH5	Ant1	Hop	1.012	≥0.888	PASS

Test Graphs

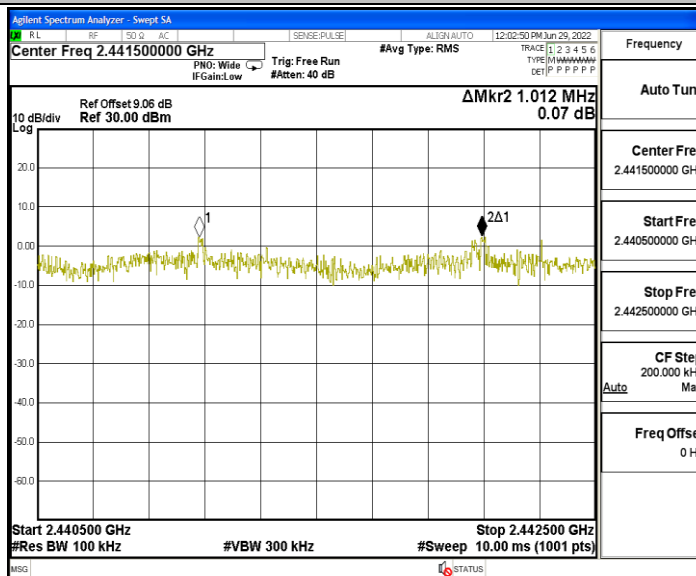
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

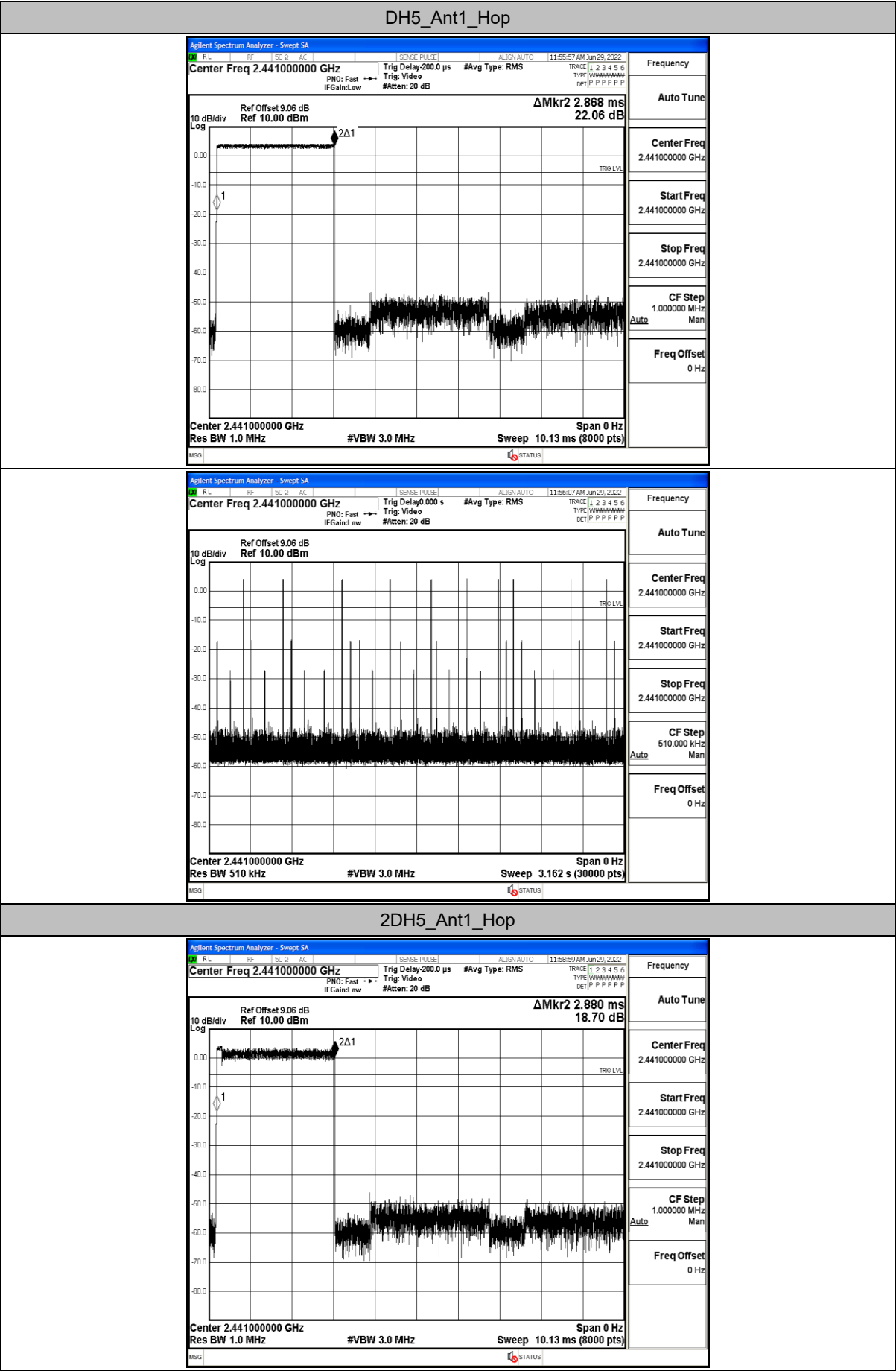


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.87	110	0.315	≤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 - Swept SA

RLRF50QACSENSE-PULSEALIGN-AUTO11:58:59 AM Jun 29, 2022

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

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

10 dB/divLogRef Offset: 9.06 dBRef 10.00 dBm Δ Mkr2 2.880 ms18.70 dB

1

201

TRIG LVL

Center 2.441000000 GHzSpan 0 HzRes BW 1.0 MHz#VBW 3.0 MHzSweep 10.13 ms (8000 pts)

MSGSTATUS

Frequency

Auto Tune

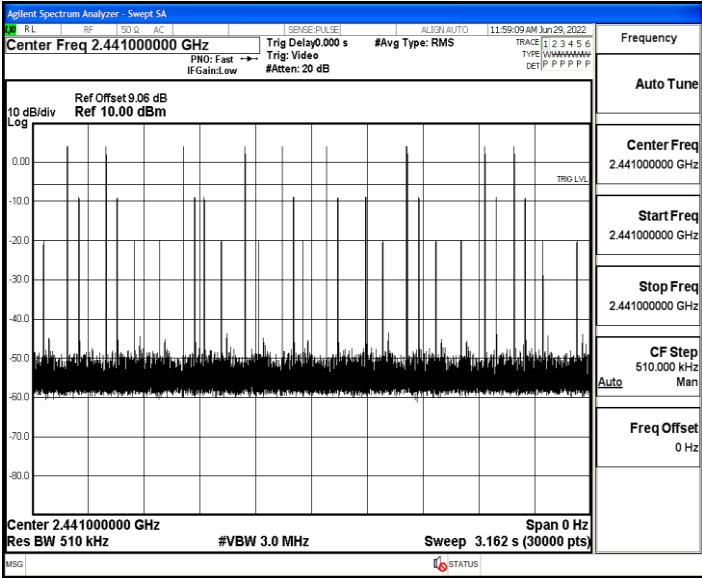
Center Freq2.441000000 GHz

Start Freq2.441000000 GHz

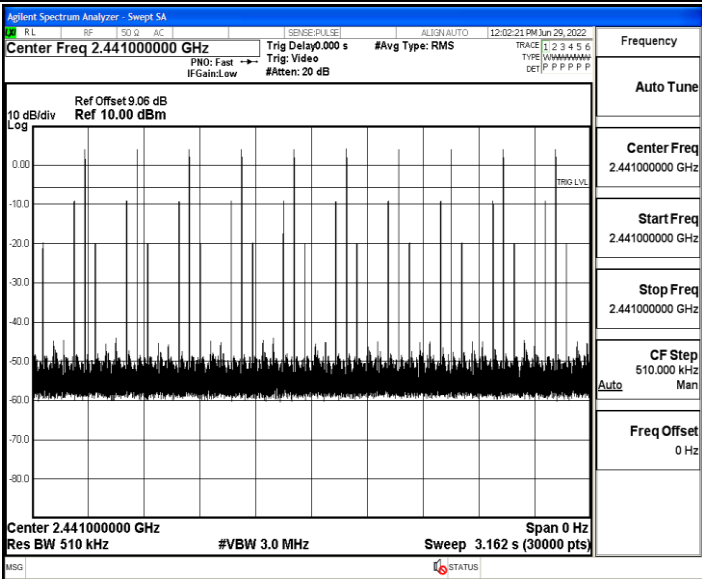
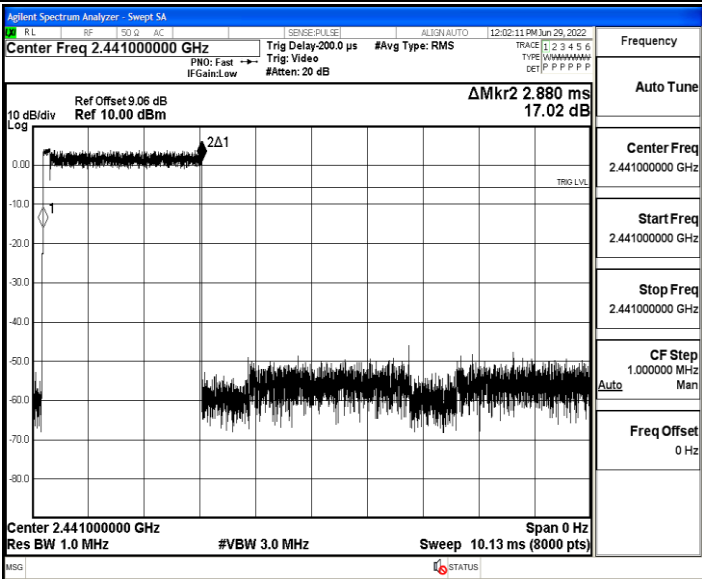
Stop Freq2.441000000 GHz

CF Step1.000000 MHzAutoMan

Freq Offset0 Hz



3DH5_Ant1_Hop

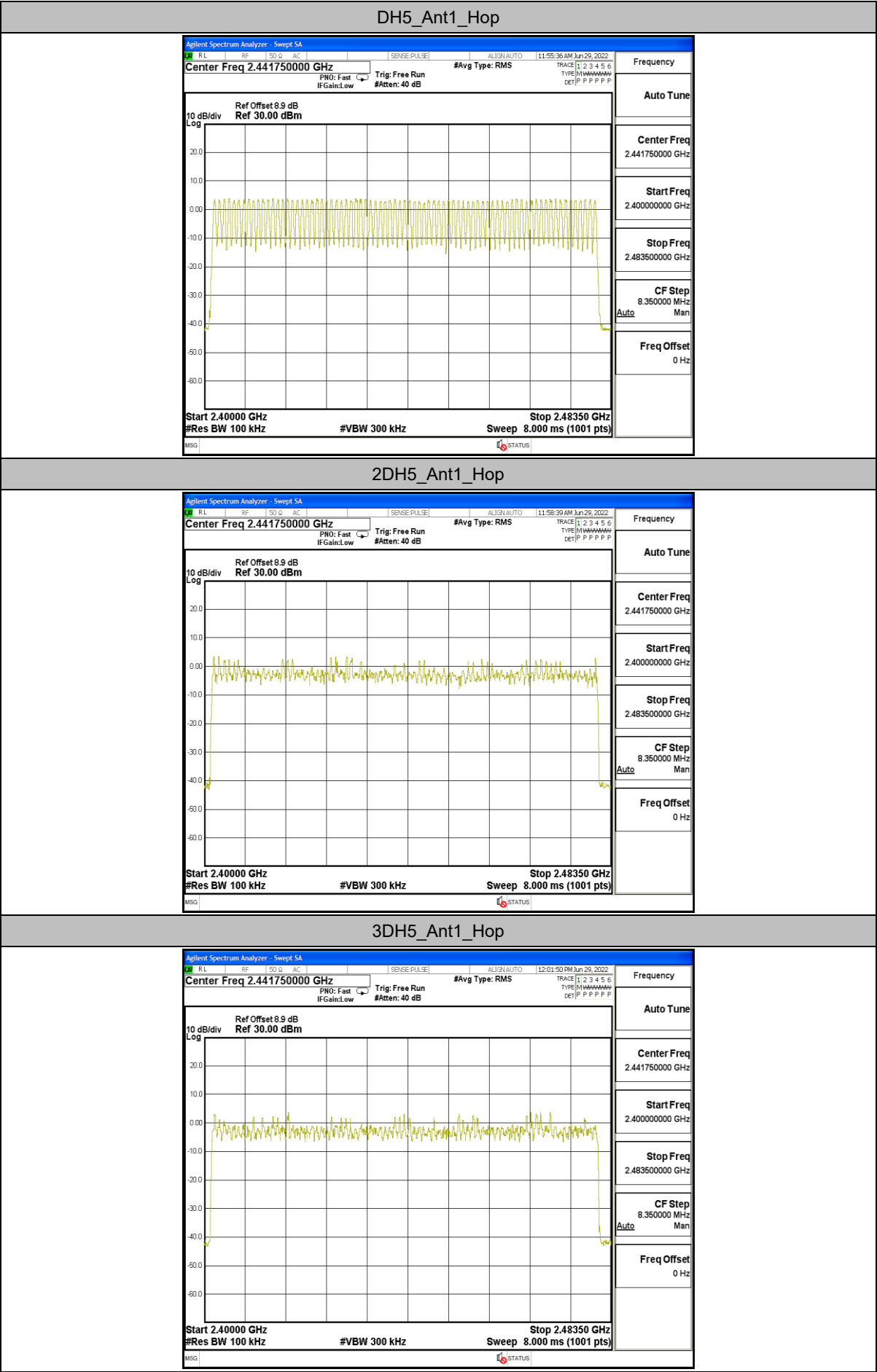


Appendix F: Number of hopping channels

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



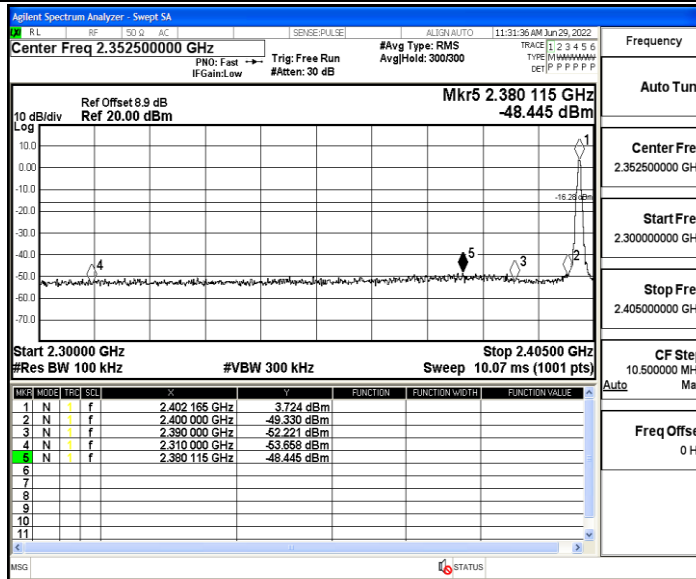
Appendix G: Band edge measurements

Test Result

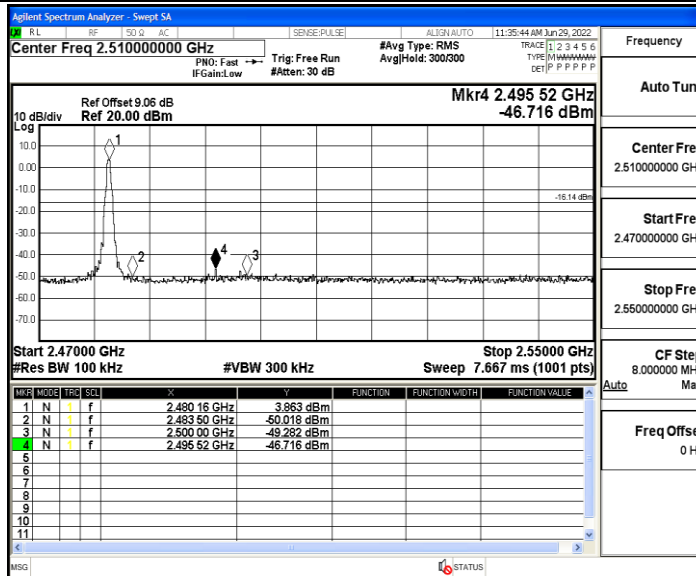
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.72	-48.45	≤ -16.28	PASS
		High	2480	3.86	-46.72	≤ -16.14	PASS
		Low	Hop_2402	3.10	-48.19	≤ -16.9	PASS
		High	Hop_2480	3.68	-48.39	≤ -16.32	PASS
2DH5	Ant1	Low	2402	2.63	-48.5	≤ -17.37	PASS
		High	2480	3.27	-48.83	≤ -16.73	PASS
		Low	Hop_2402	0.61	-49.17	≤ -19.39	PASS
		High	Hop_2480	2.20	-49.48	≤ -17.8	PASS
3DH5	Ant1	Low	2402	3.60	-47.96	≤ -16.4	PASS
		High	2480	3.69	-49.02	≤ -16.31	PASS
		Low	Hop_2402	-1.04	-50.83	≤ -21.04	PASS
		High	Hop_2480	2.36	-48.89	≤ -17.64	PASS

Test Graphs

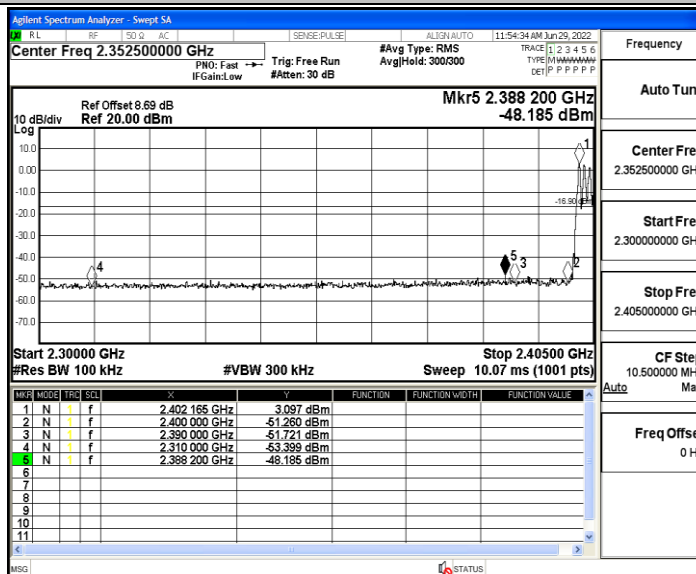
DH5_Ant1_Low_2402



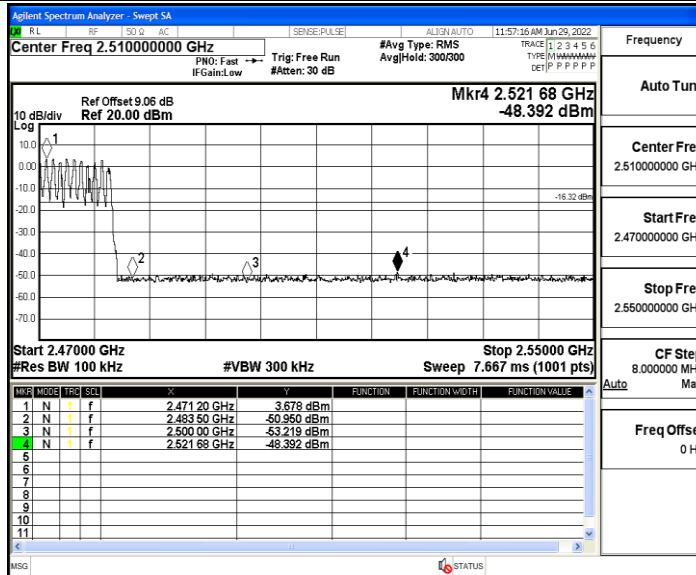
DH5_Ant1_High_2480



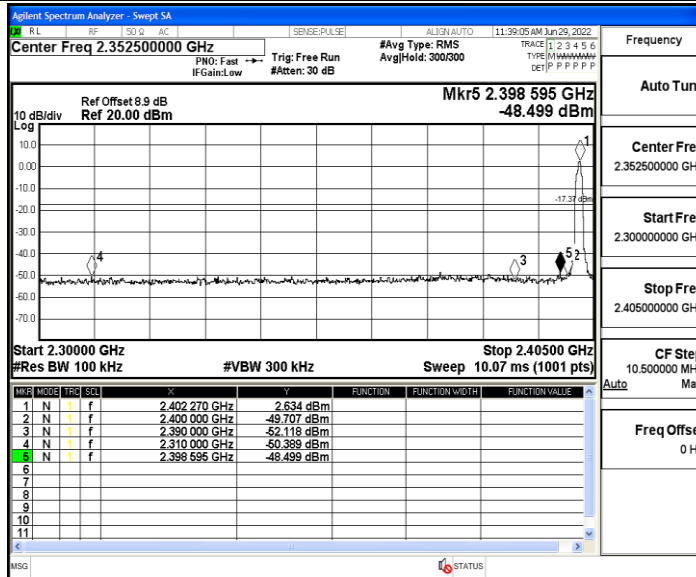
DH5_Ant1_Low_Hop_2402



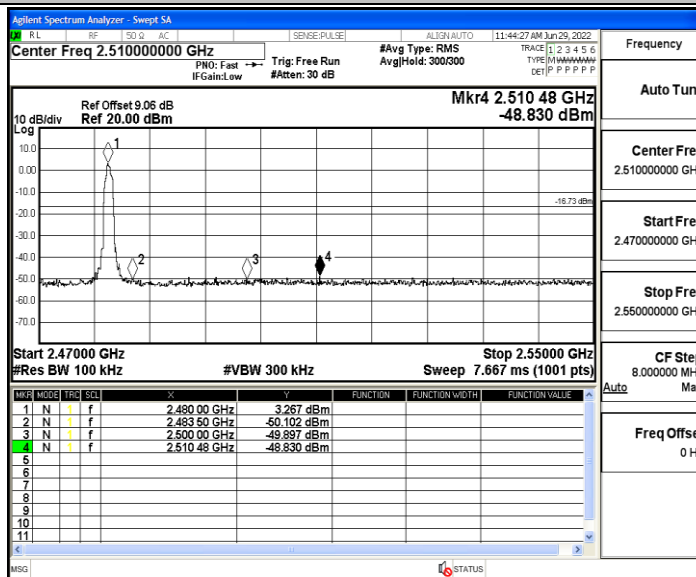
DH5_Ant1_High_Hop_2480



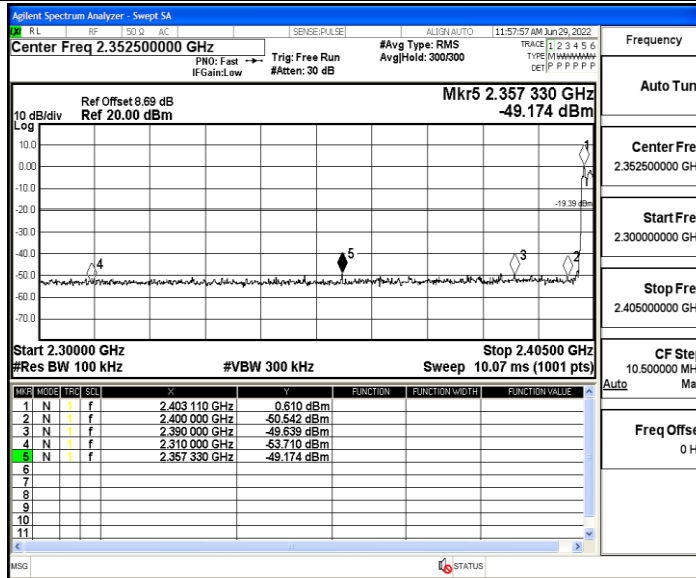
2DH5_Ant1_Low_2402



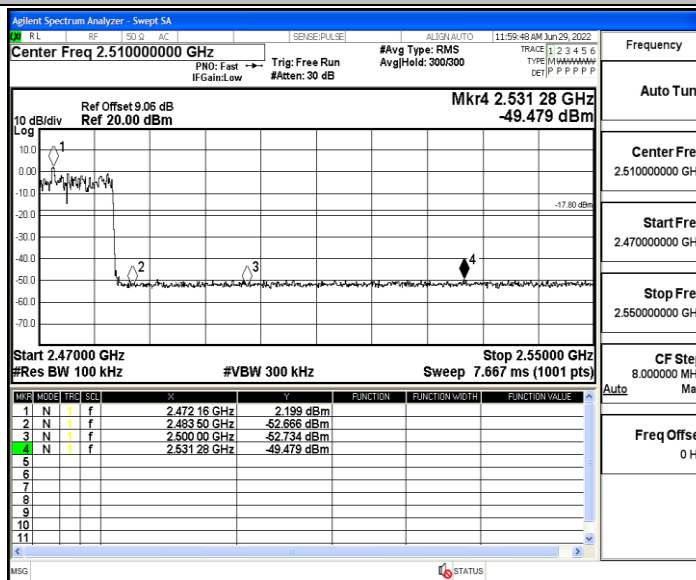
2DH5_Ant1_High_2480



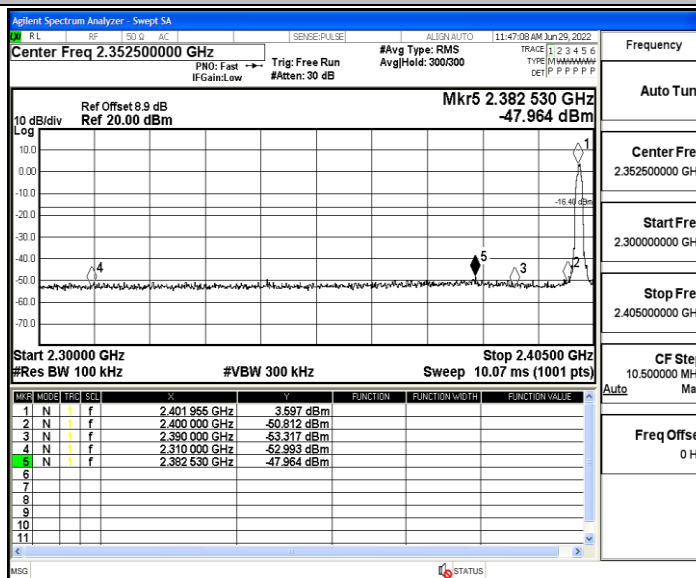
2DH5_Ant1_Low_Hop_2402



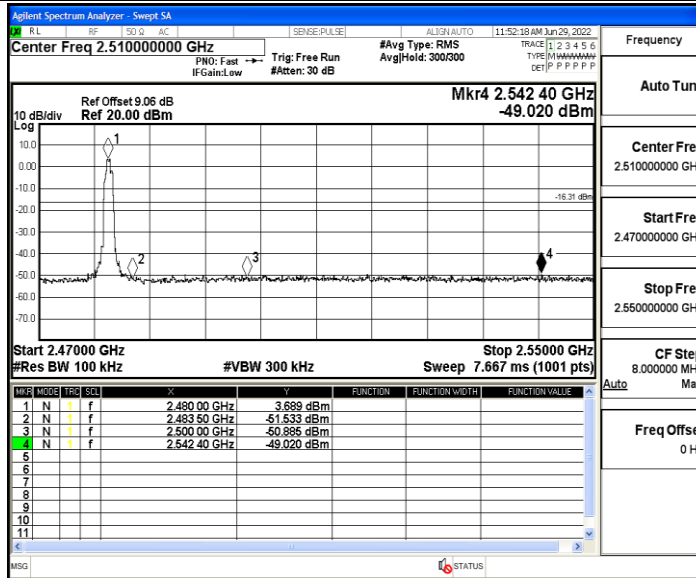
2DH5_Ant1_High_Hop_2480



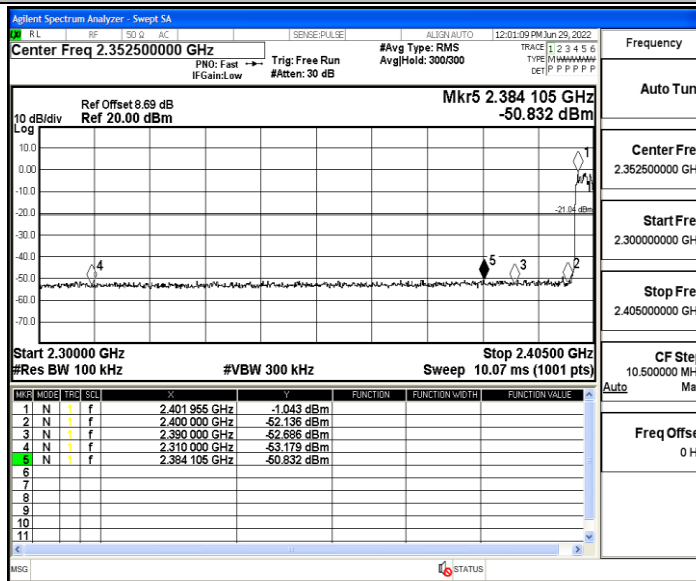
3DH5_Ant1_Low_2402



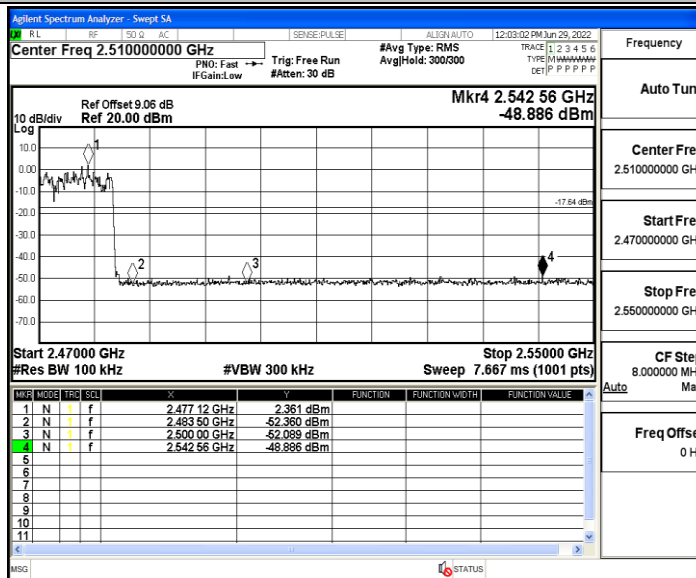
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



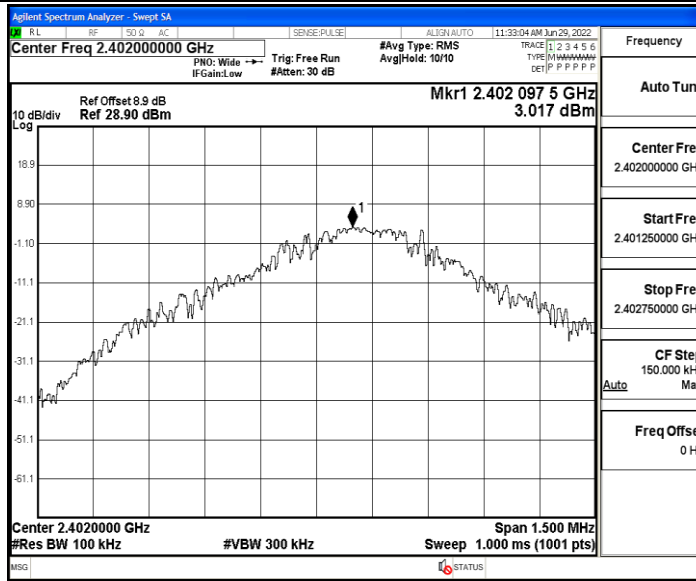
Appendix H: Conducted Spurious Emission

Test Result

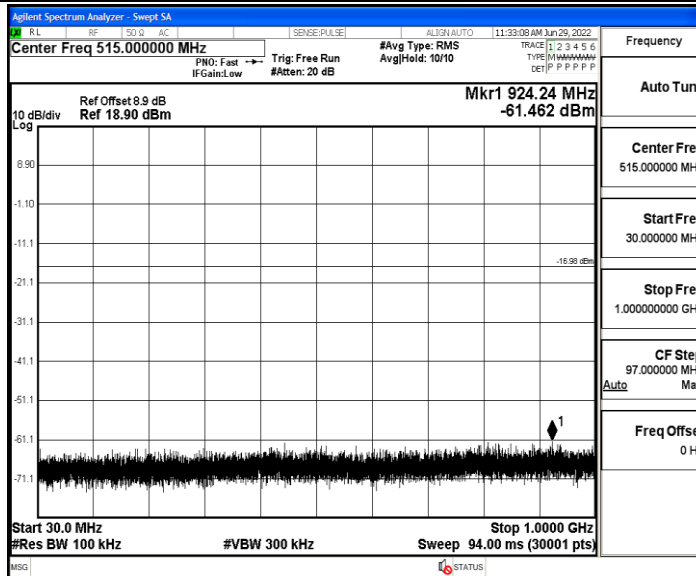
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.02	3.02	---	PASS
			30~1000	3.02	-61.46	≤-16.98	PASS
			1000~26500	3.02	-38.55	≤-16.98	PASS
		2441	Reference	3.10	3.10	---	PASS
			30~1000	3.10	-61.37	≤-16.9	PASS
			1000~26500	3.10	-40.62	≤-16.9	PASS
		2480	Reference	3.29	3.29	---	PASS
			30~1000	3.29	-61.93	≤-16.71	PASS
			1000~26500	3.29	-43.17	≤-16.71	PASS
2DH5	Ant1	2402	Reference	-1.04	-1.04	---	PASS
			30~1000	-1.04	-62.07	≤-21.04	PASS
			1000~26500	-1.04	-42.42	≤-21.04	PASS
		2441	Reference	0.67	0.67	---	PASS
			30~1000	0.67	-61.17	≤-19.33	PASS
			1000~26500	0.67	-46.33	≤-19.33	PASS
		2480	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-60.96	≤-21.02	PASS
			1000~26500	-1.02	-43.04	≤-21.02	PASS
3DH5	Ant1	2402	Reference	3.51	3.51	---	PASS
			30~1000	3.51	-61.94	≤-16.49	PASS
			1000~26500	3.51	-42.96	≤-16.49	PASS
		2441	Reference	2.25	2.25	---	PASS
			30~1000	2.25	-61.34	≤-17.75	PASS
			1000~26500	2.25	-41.72	≤-17.75	PASS
		2480	Reference	3.62	3.62	---	PASS
			30~1000	3.62	-61.91	≤-16.38	PASS
			1000~26500	3.62	-45.62	≤-16.38	PASS

Test Graphs

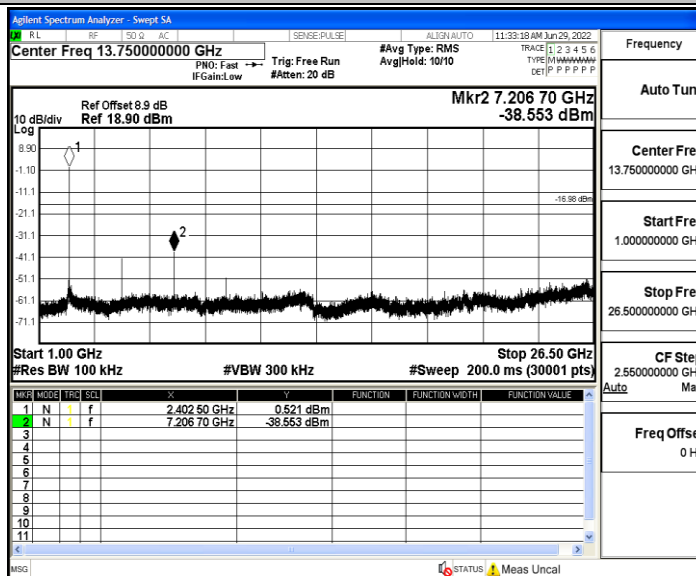
DH5_Ant1_2402_0~Reference



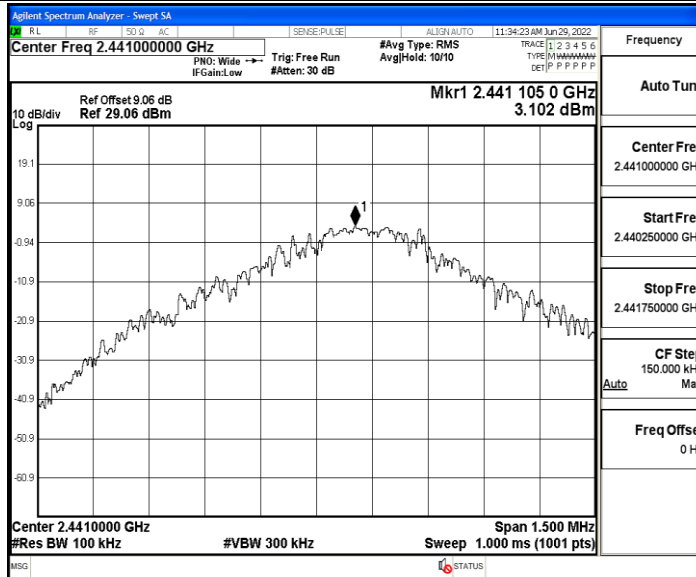
DH5_Ant1_2402_30~1000



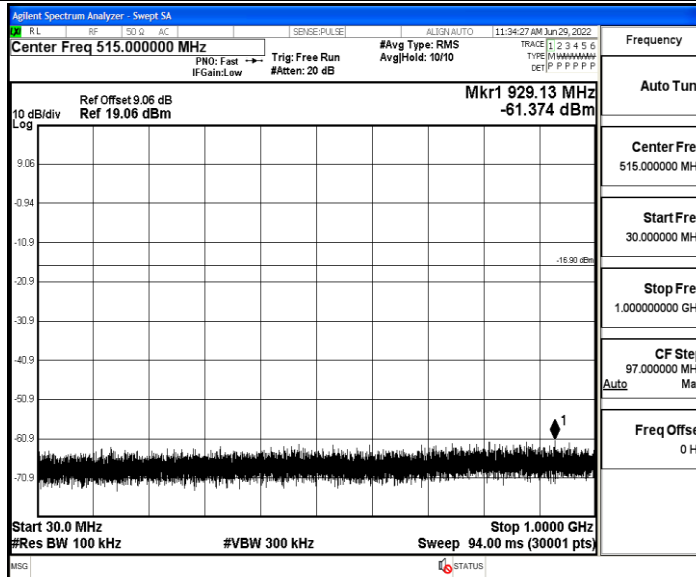
DH5_Ant1_2402_1000~26500



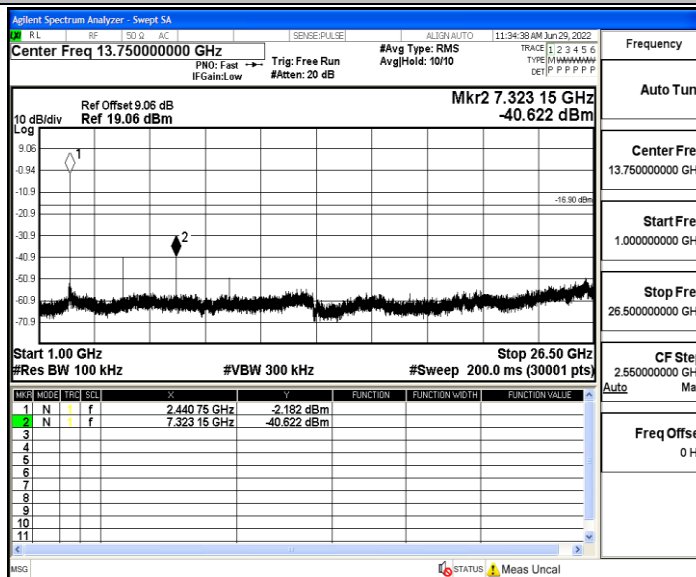
DH5_Ant1_2441_0~Reference



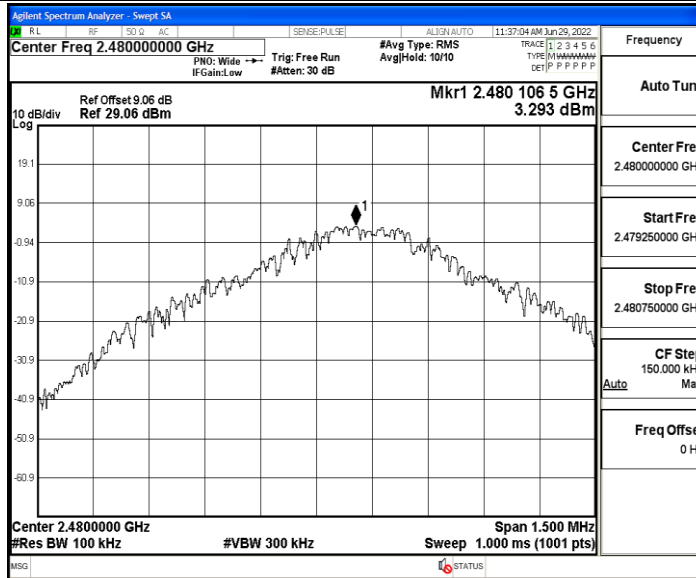
DH5_Ant1_2441_30~1000



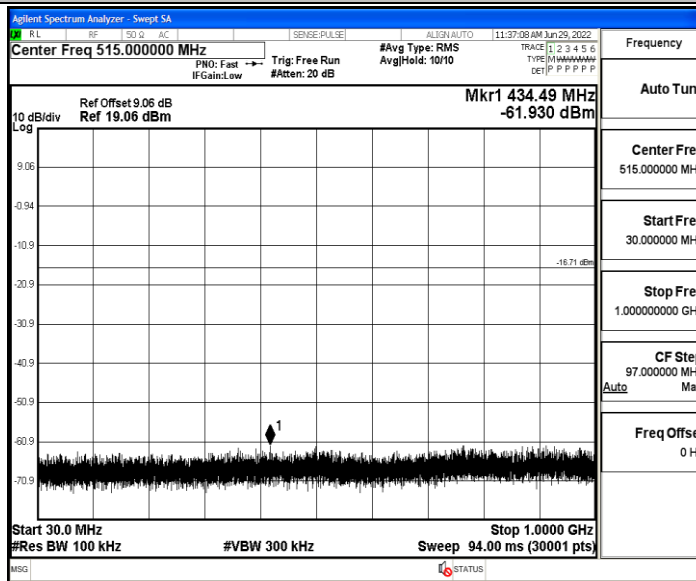
DH5_Ant1_2441_1000~26500



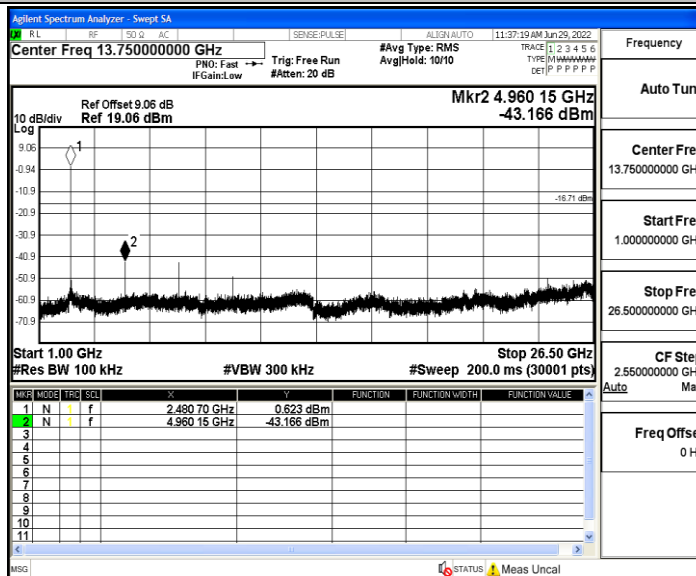
DH5_Ant1_2480_0~Reference



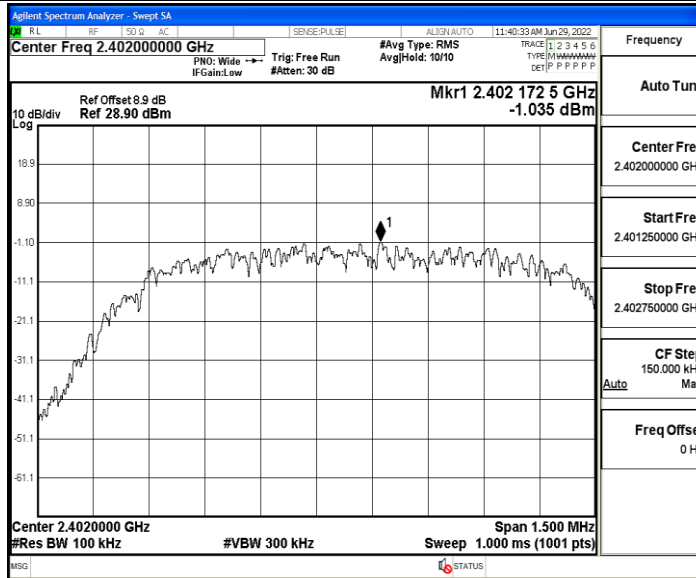
DH5_Ant1_2480_30~1000



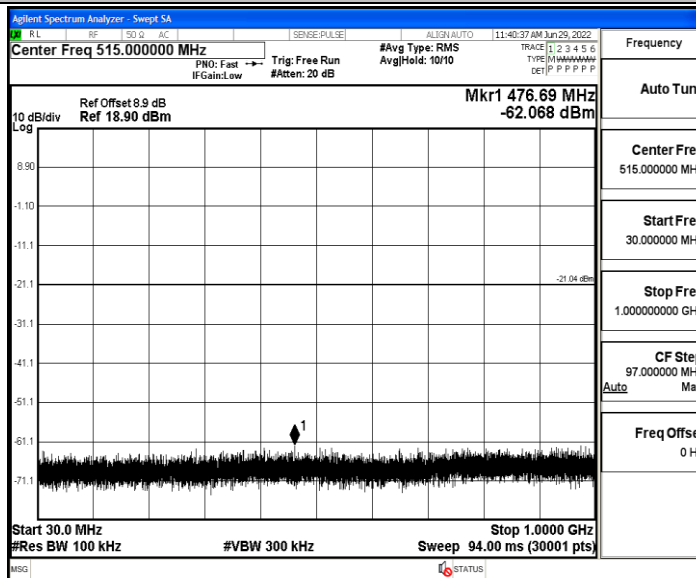
DH5_Ant1_2480_1000~26500



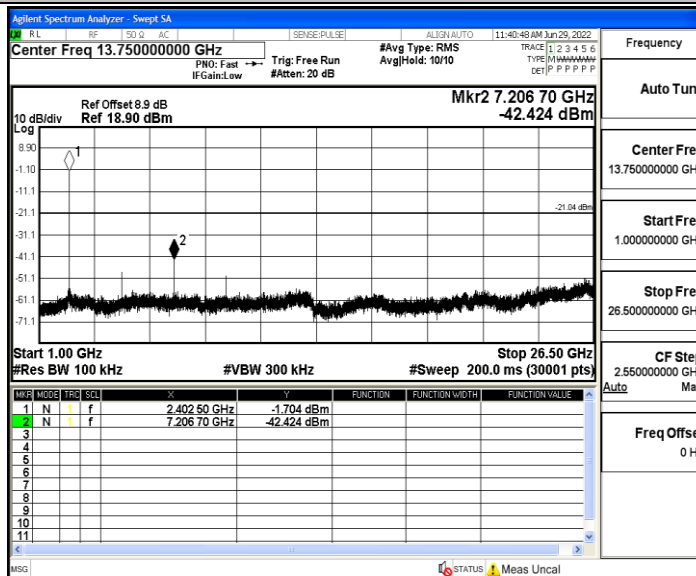
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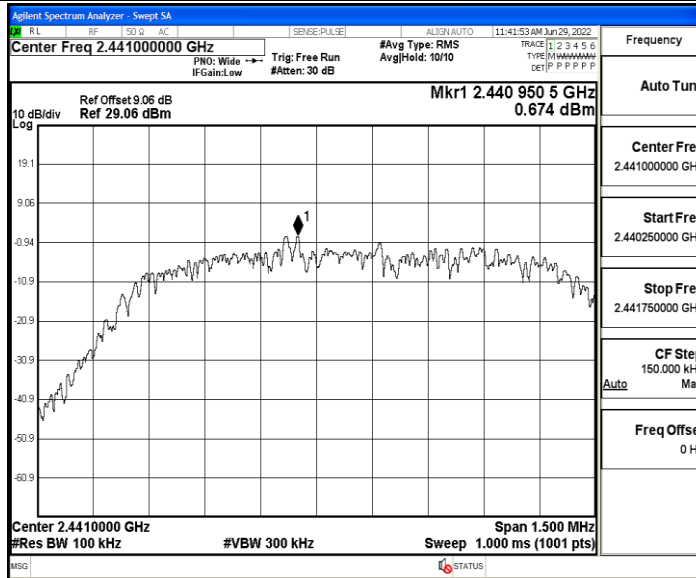
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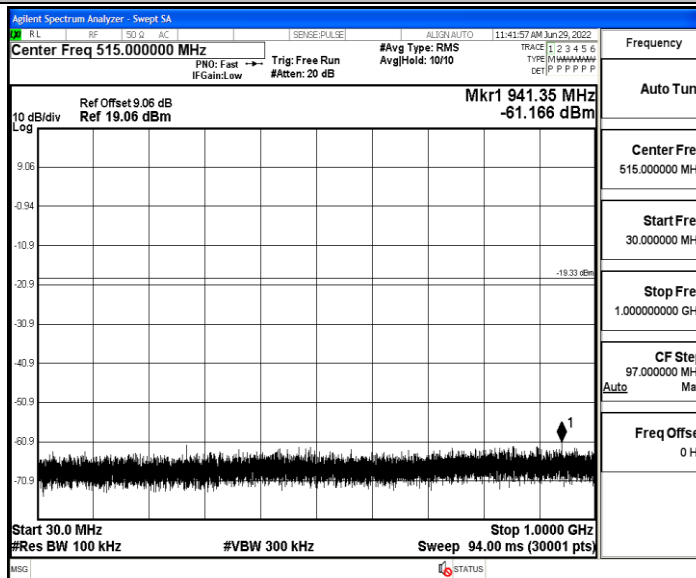
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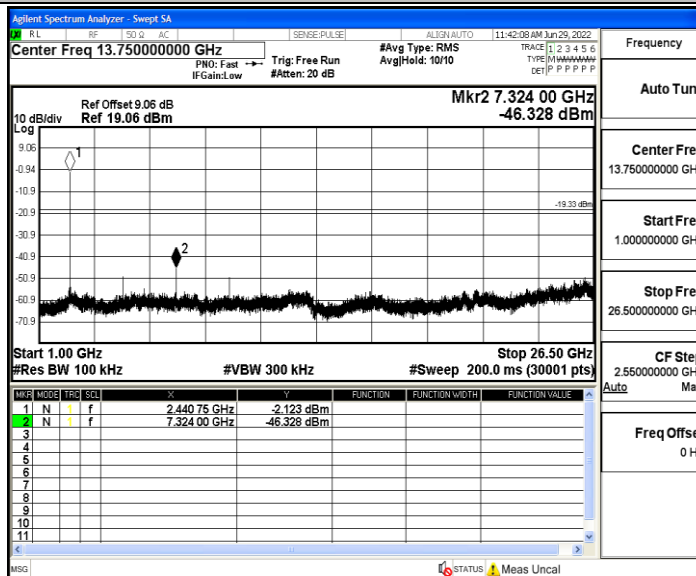
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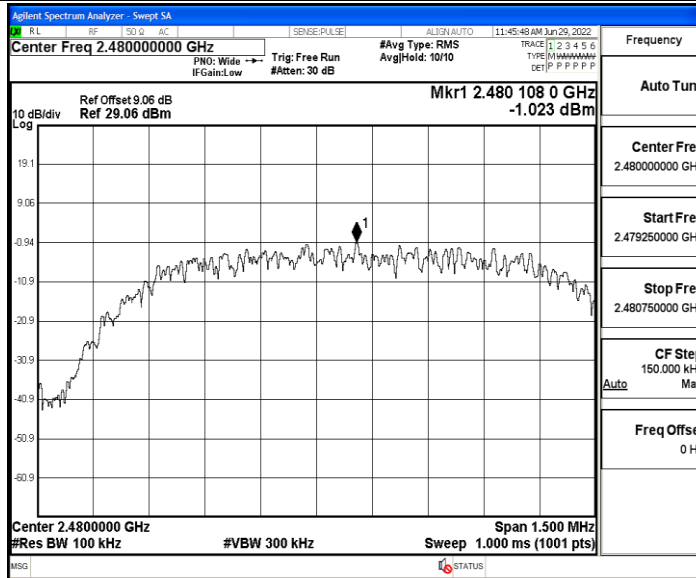
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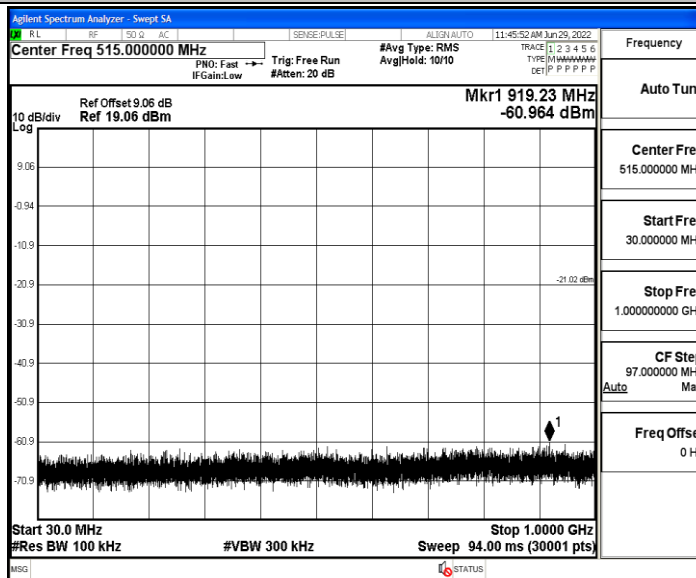
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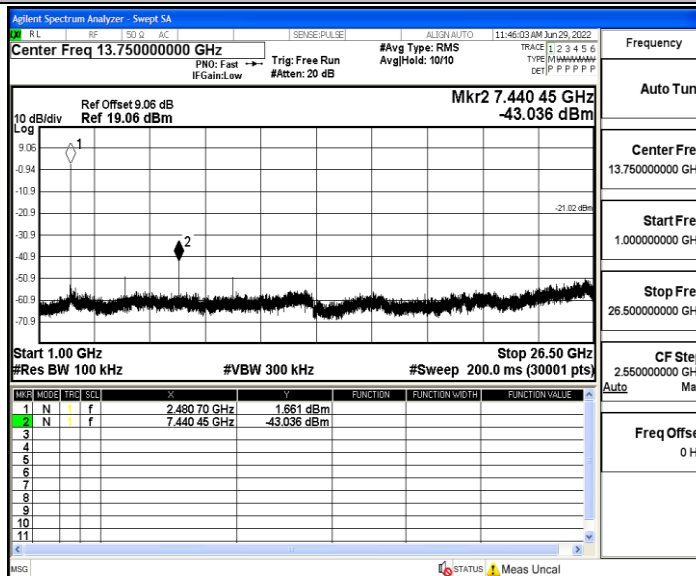
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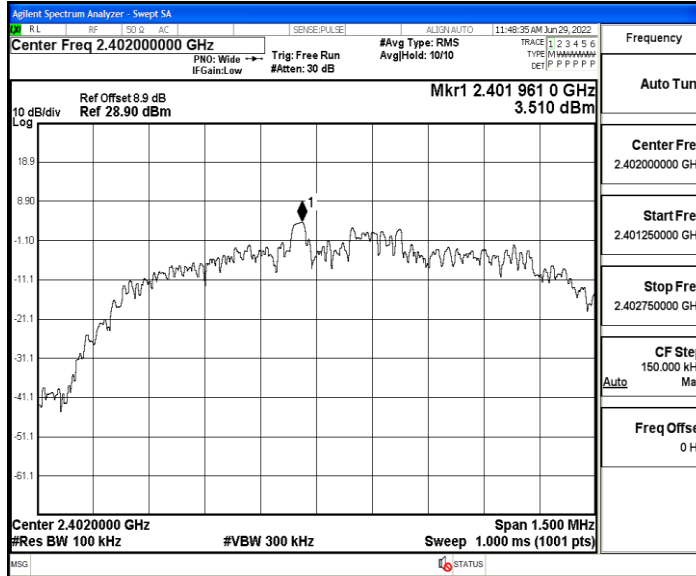
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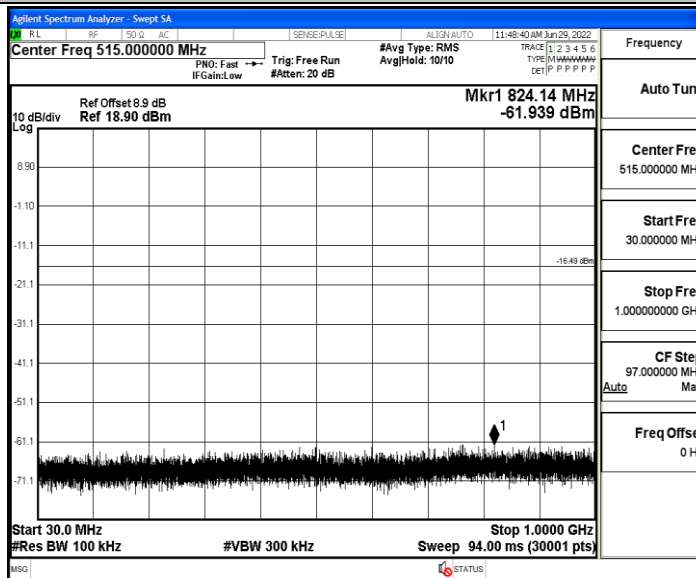
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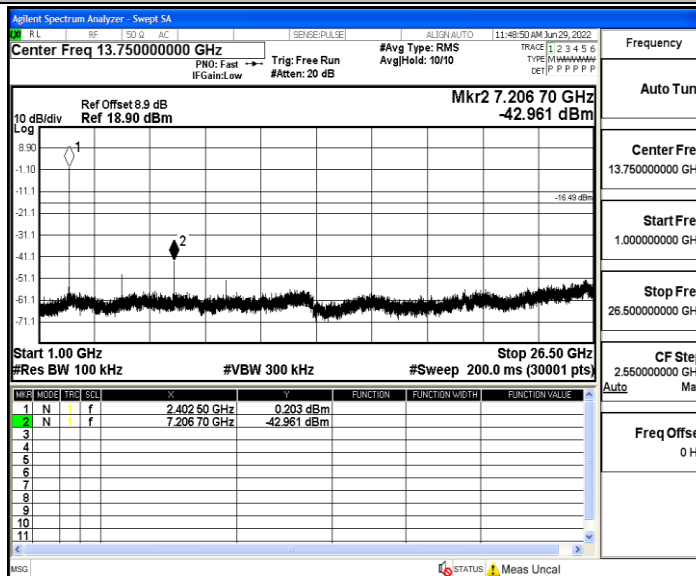
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference