

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

Product Name: LEARNING CAMERA



Trade Mark:

Test Model: DEX-01

FCC ID: 2BOSD-DEX-01

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

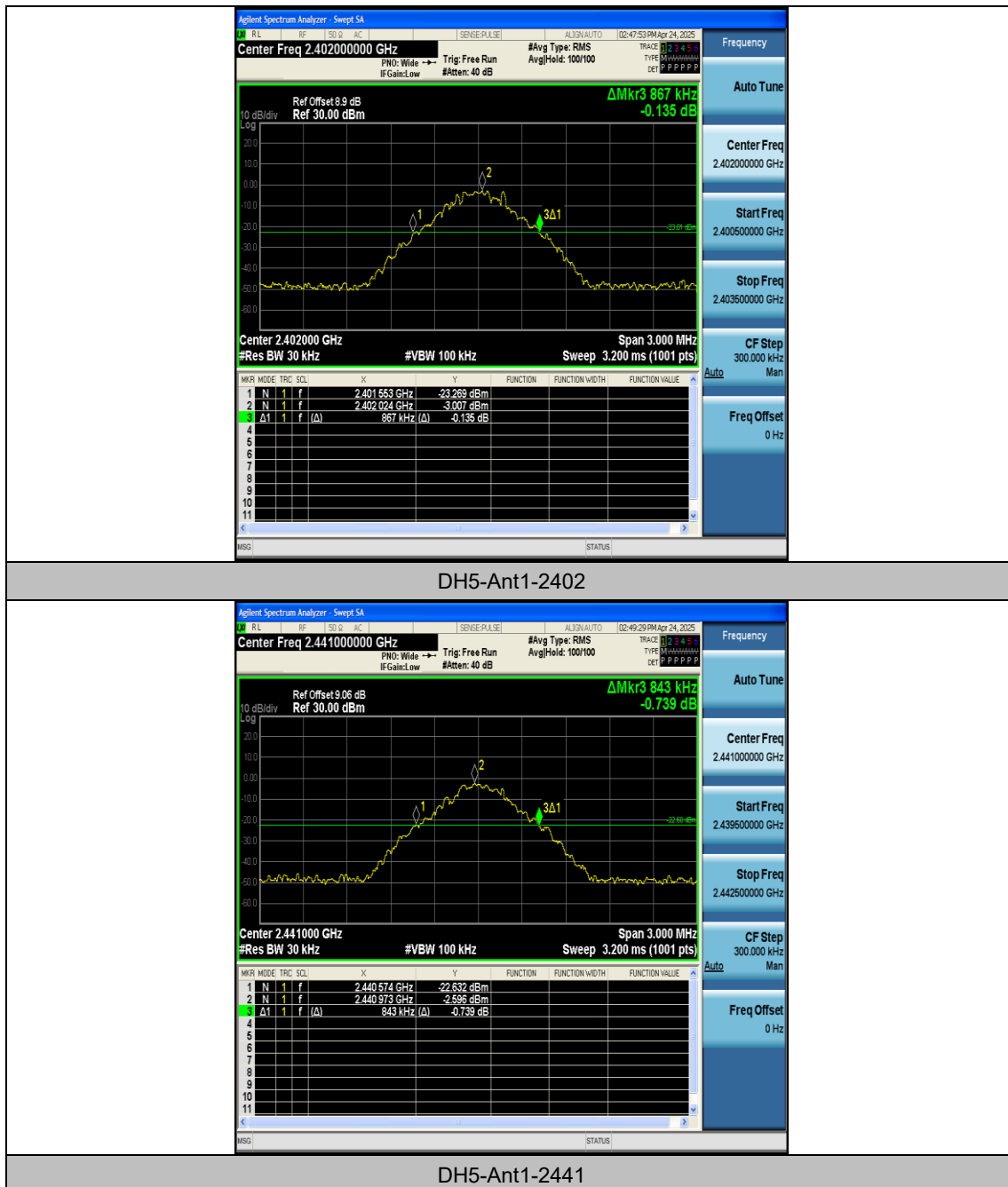
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.867	2401.553	2402.420	---	---
DH5	Ant1	2441	0.843	2440.574	2441.417	---	---
DH5	Ant1	2480	0.858	2479.559	2480.417	---	---
2DH5	Ant1	2402	1.266	2401.373	2402.639	---	---
2DH5	Ant1	2441	1.281	2440.367	2441.648	---	---
2DH5	Ant1	2480	1.275	2479.370	2480.645	---	---
3DH5	Ant1	2402	1.302	2401.352	2402.654	---	---
3DH5	Ant1	2441	1.263	2440.364	2441.627	---	---
3DH5	Ant1	2480	1.272	2479.358	2480.630	---	---

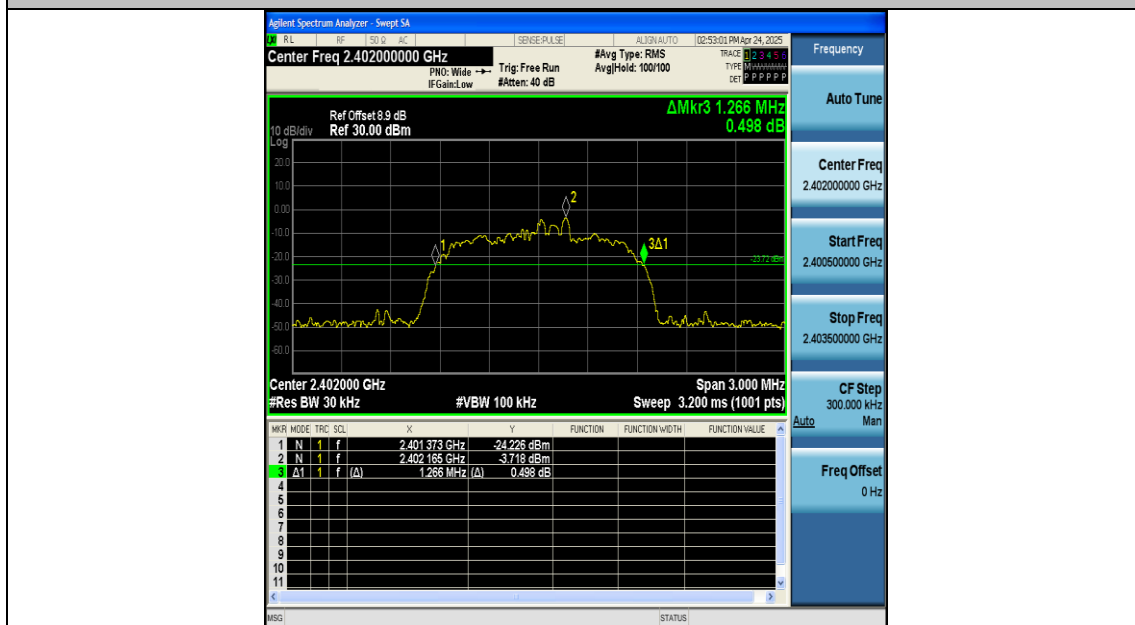
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



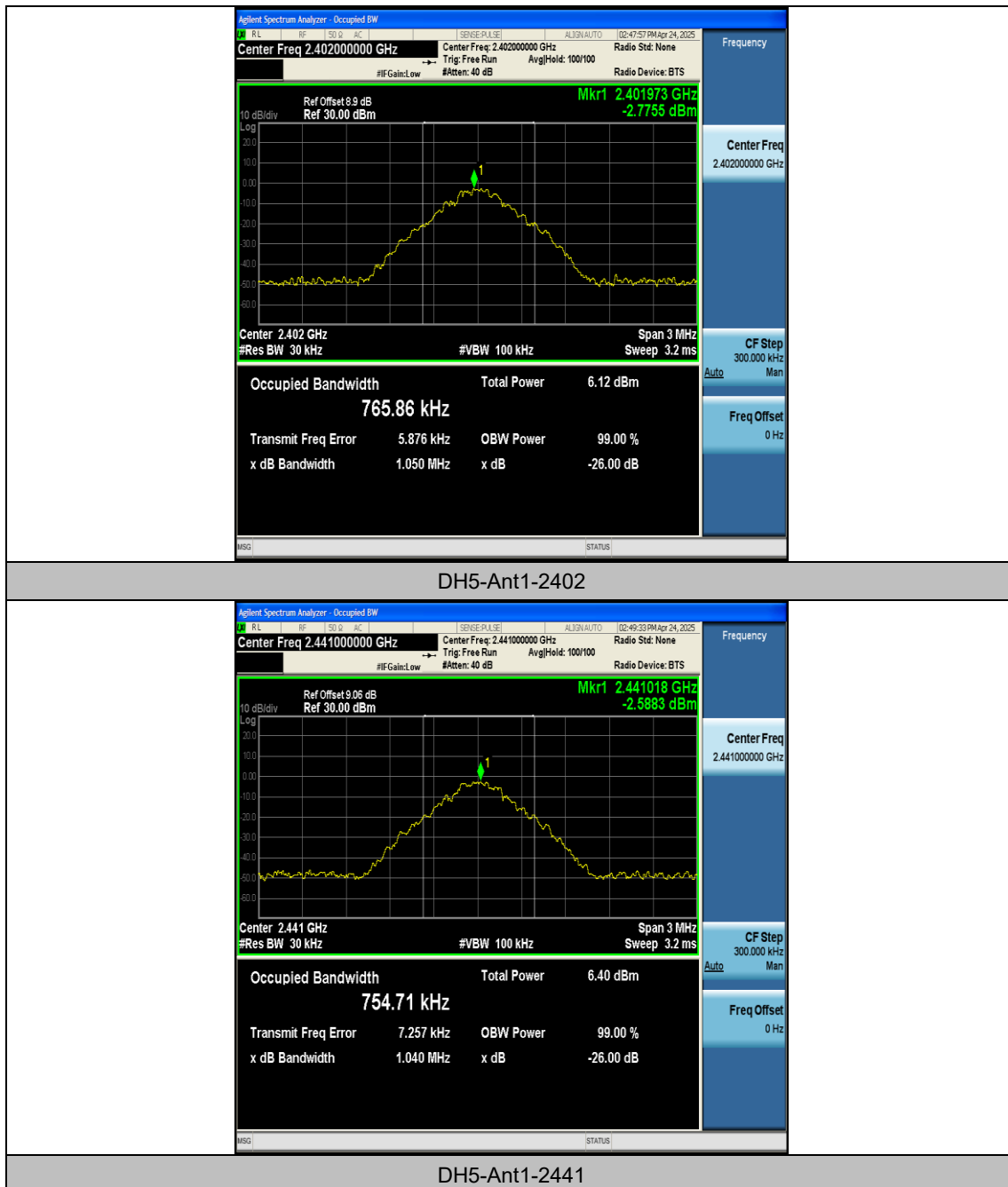
Appendix B: Occupied Channel Bandwidth

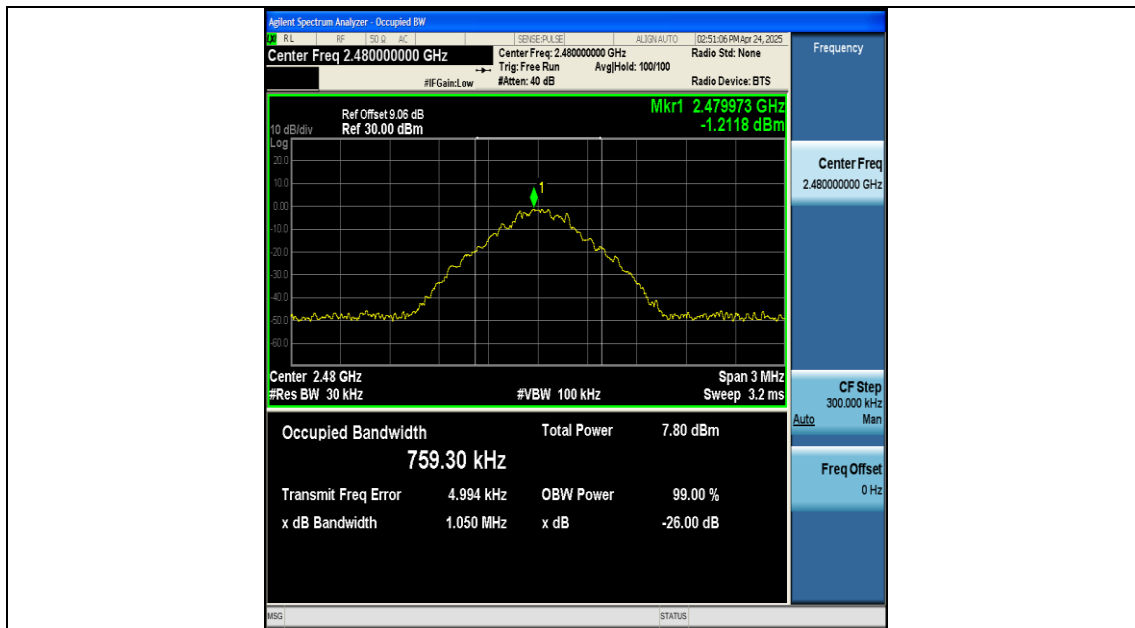
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.76586	2401.6230	2402.3888	---	---
DH5	Ant1	2441	0.75471	2440.6299	2441.3846	---	---
DH5	Ant1	2480	0.75930	2479.6253	2480.3846	---	---
2DH5	Ant1	2402	1.1702	2401.4153	2402.5855	---	---
2DH5	Ant1	2441	1.1673	2440.4141	2441.5814	---	---
2DH5	Ant1	2480	1.1637	2479.4171	2480.5808	---	---
3DH5	Ant1	2402	1.1793	2401.4150	2402.5943	---	---
3DH5	Ant1	2441	1.1627	2440.4217	2441.5844	---	---
3DH5	Ant1	2480	1.1897	2479.4073	2480.5970	---	---

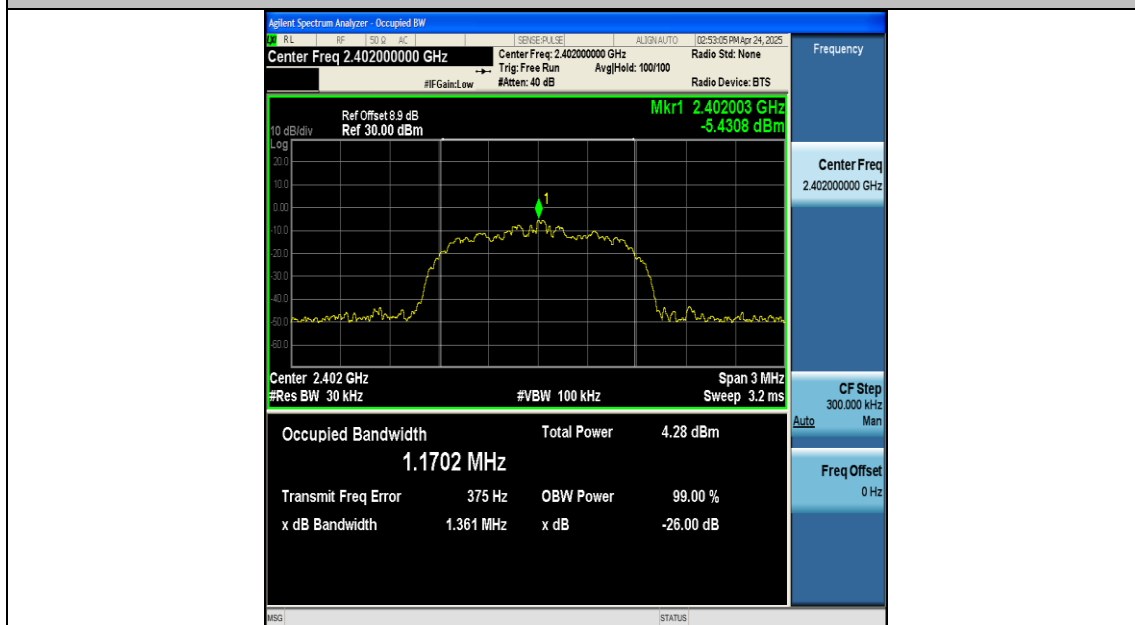
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

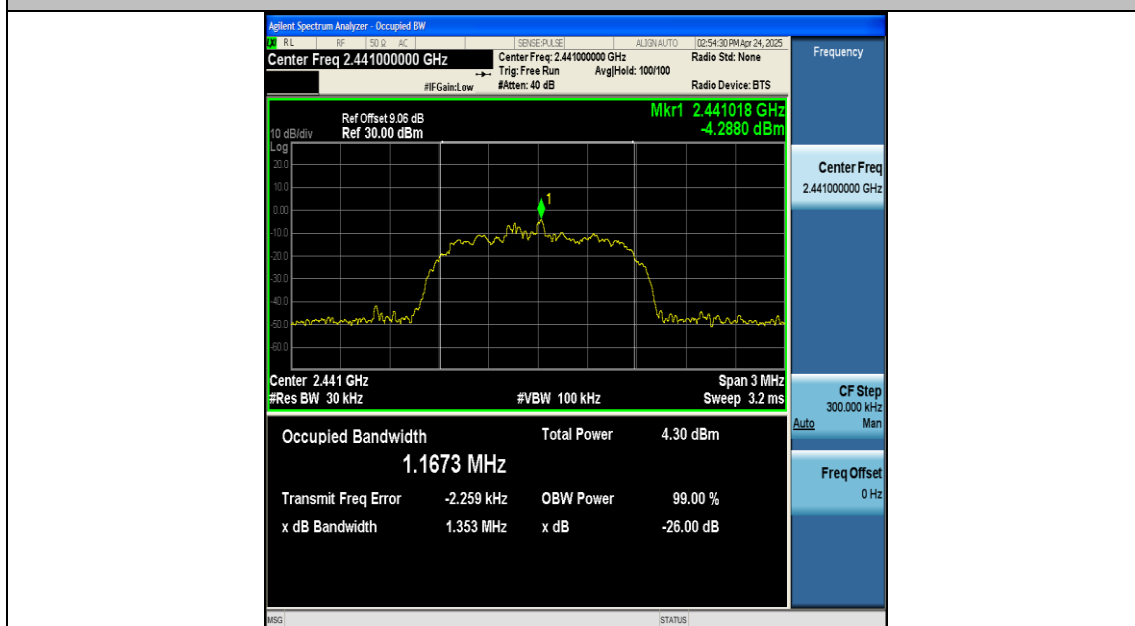




DH5-Ant1-2480



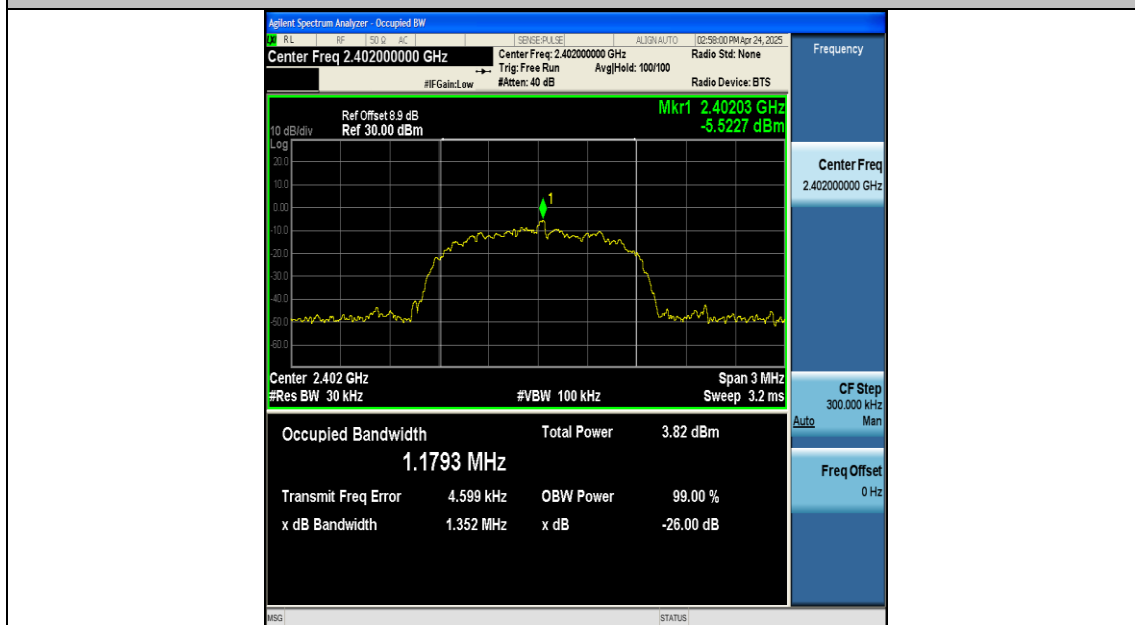
2DH5-Ant1-2402



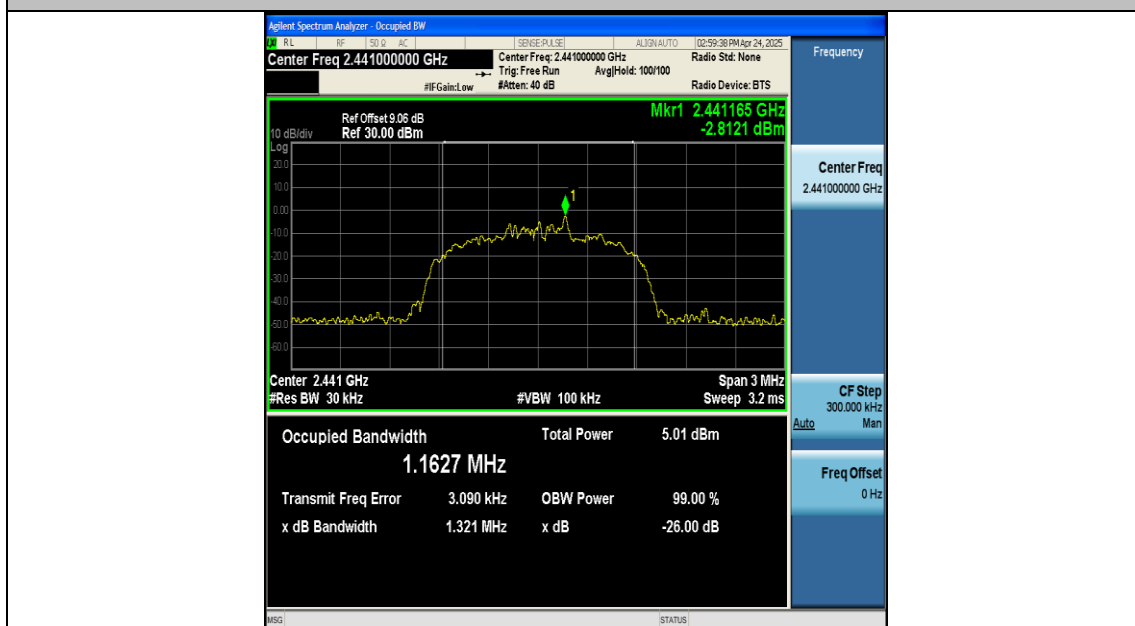
2DH5-Ant1-2441



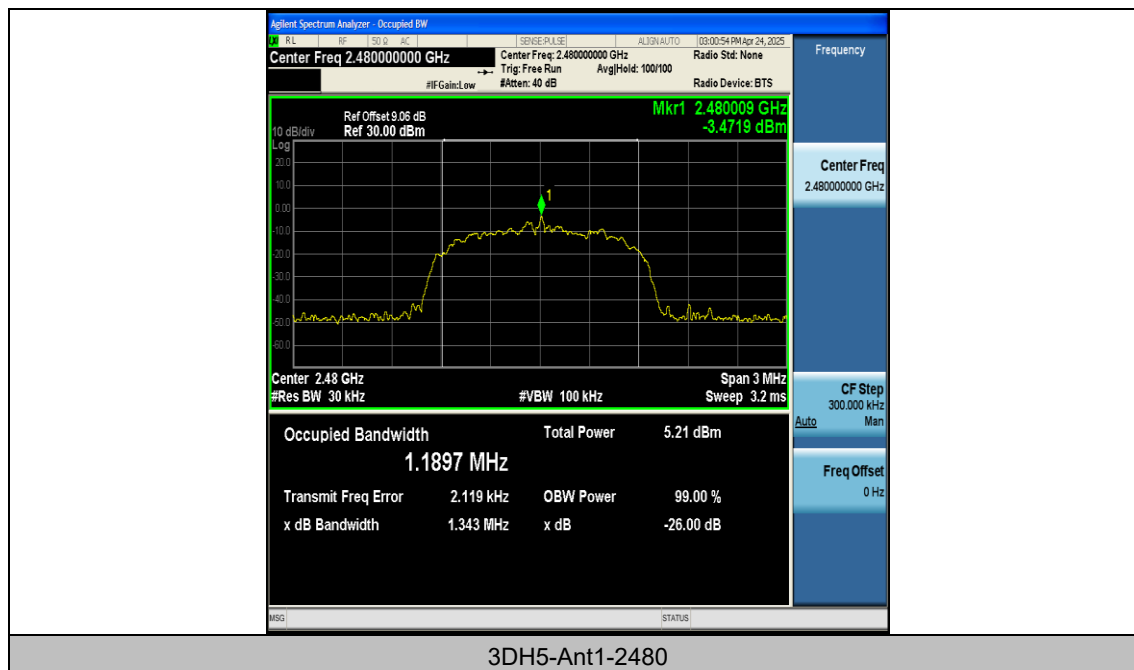
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



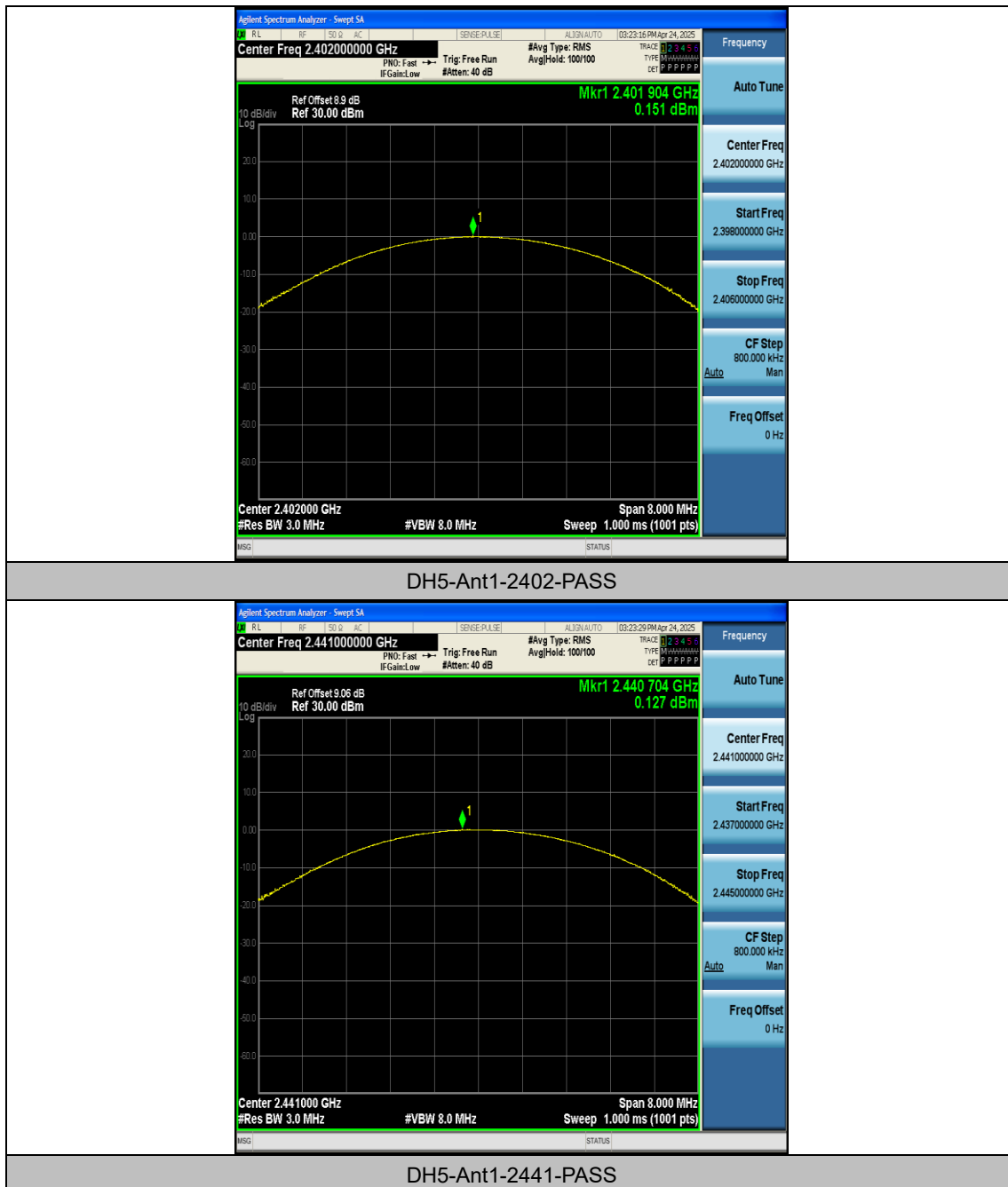
Appendix C: Maximum peak conducted output power

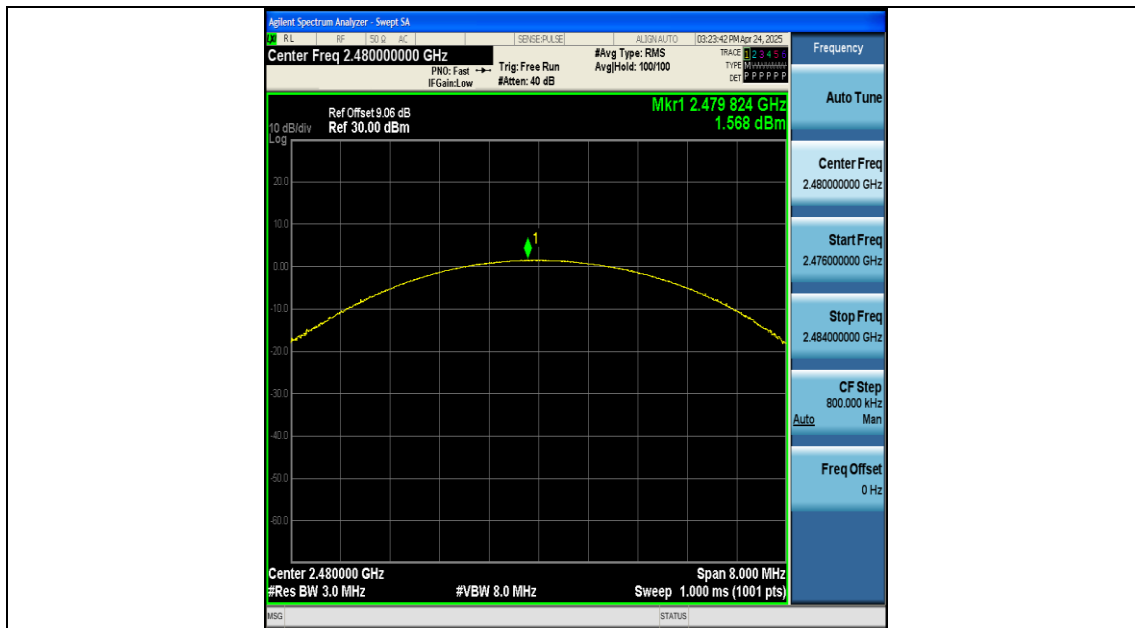
Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	0.15	≤30	PASS
DH5	Ant1	2441	0.13	≤30	PASS
DH5	Ant1	2480	1.57	≤30	PASS
2DH5	Ant1	2402	-0.35	≤20.97	PASS
2DH5	Ant1	2441	-0.38	≤20.97	PASS
2DH5	Ant1	2480	1.02	≤20.97	PASS
3DH5	Ant1	2402	-0.38	≤20.97	PASS
3DH5	Ant1	2441	-0.35	≤20.97	PASS
3DH5	Ant1	2480	1.06	≤20.97	PASS

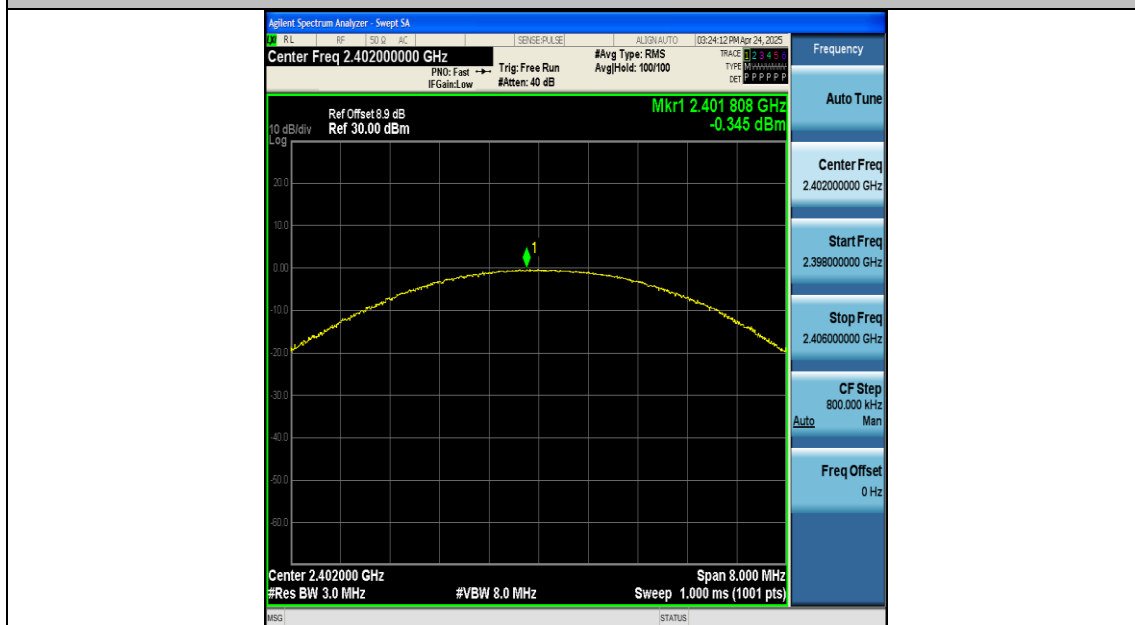
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

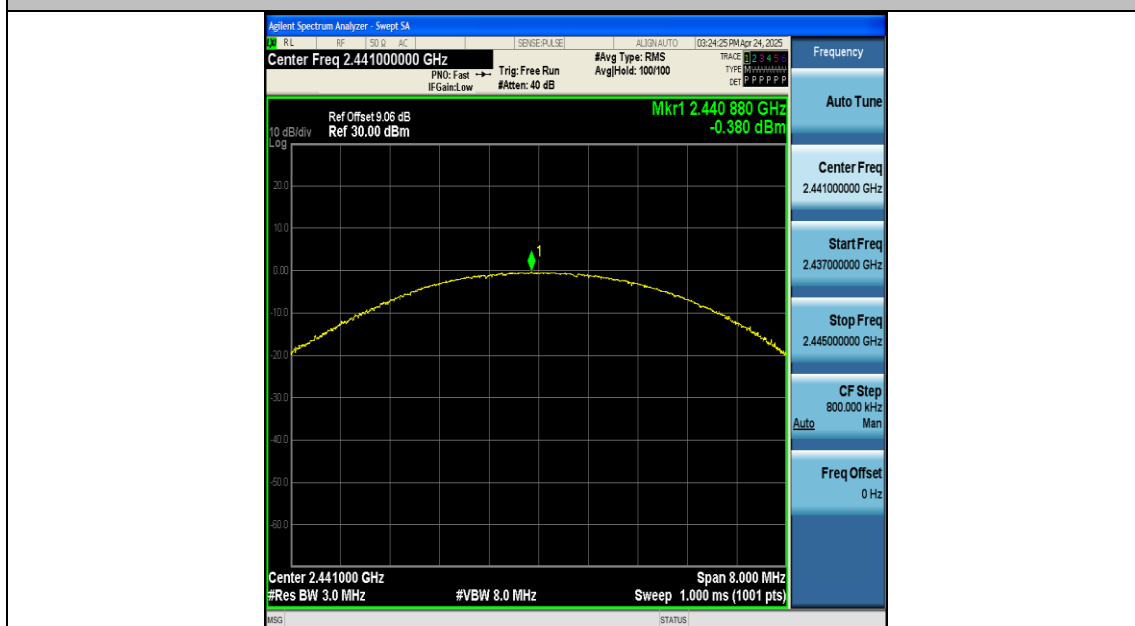




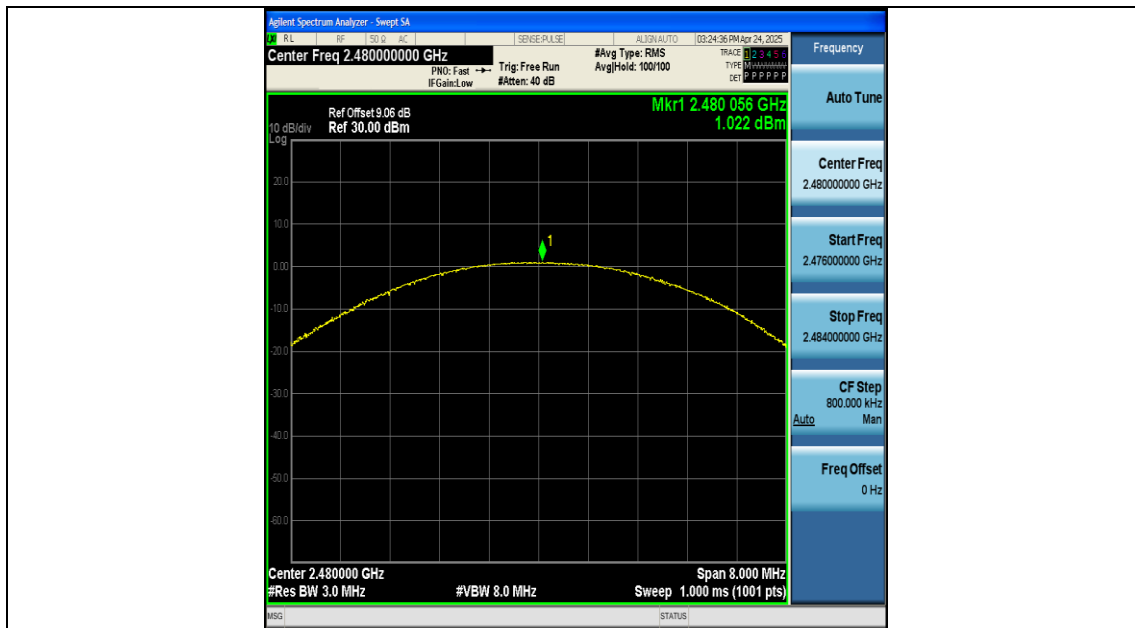
DH5-Ant1-2480-PASS



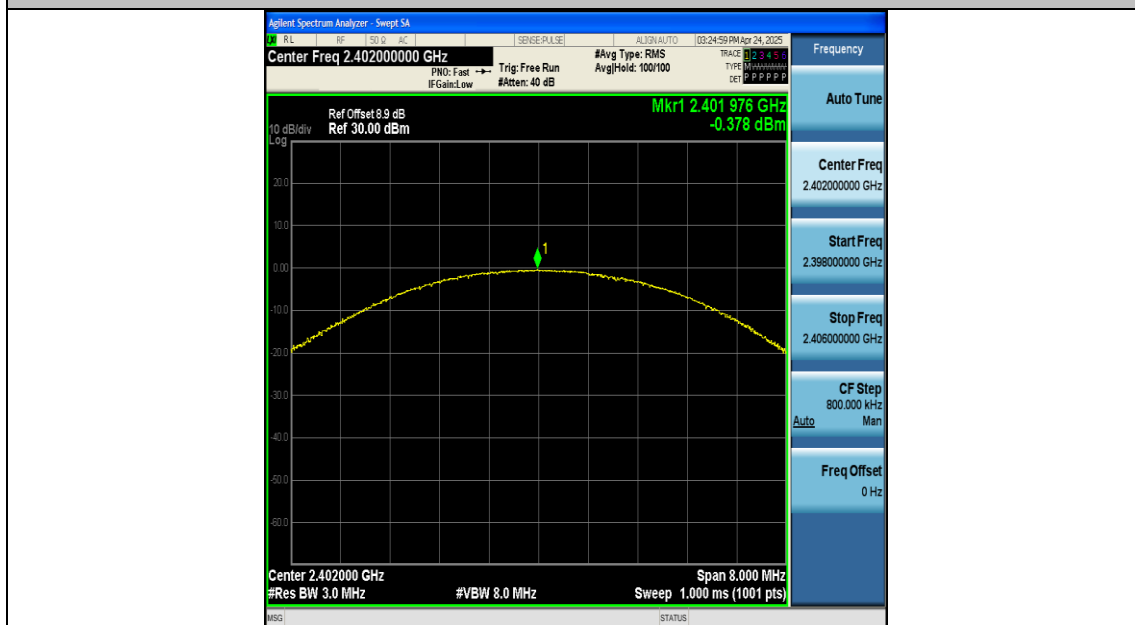
2DH5-Ant1-2402-PASS



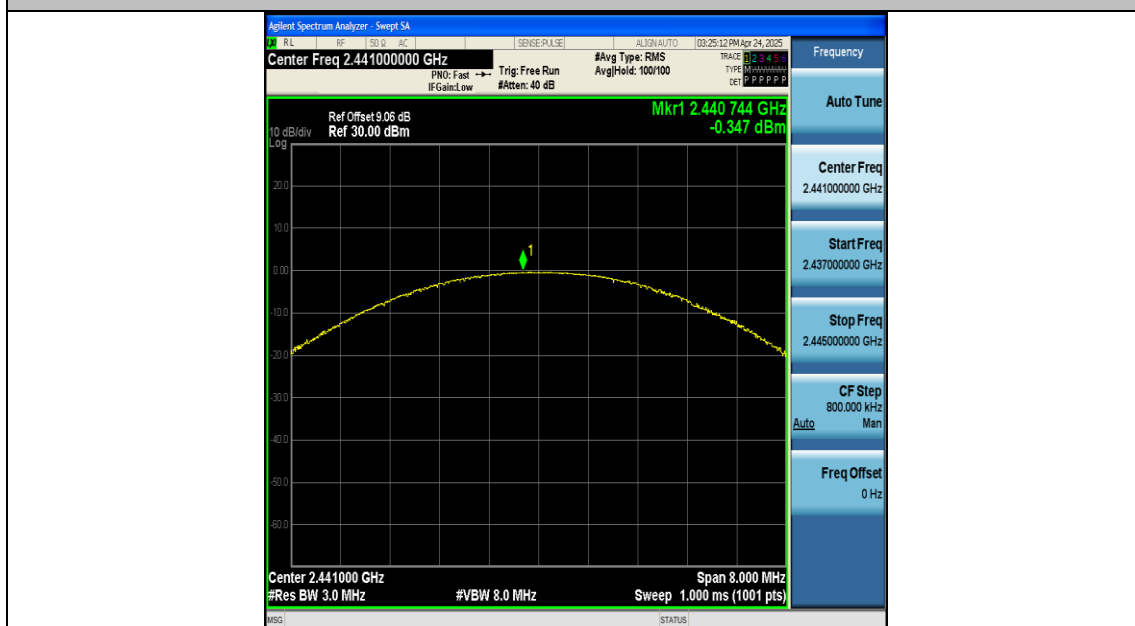
2DH5-Ant1-2441-PASS



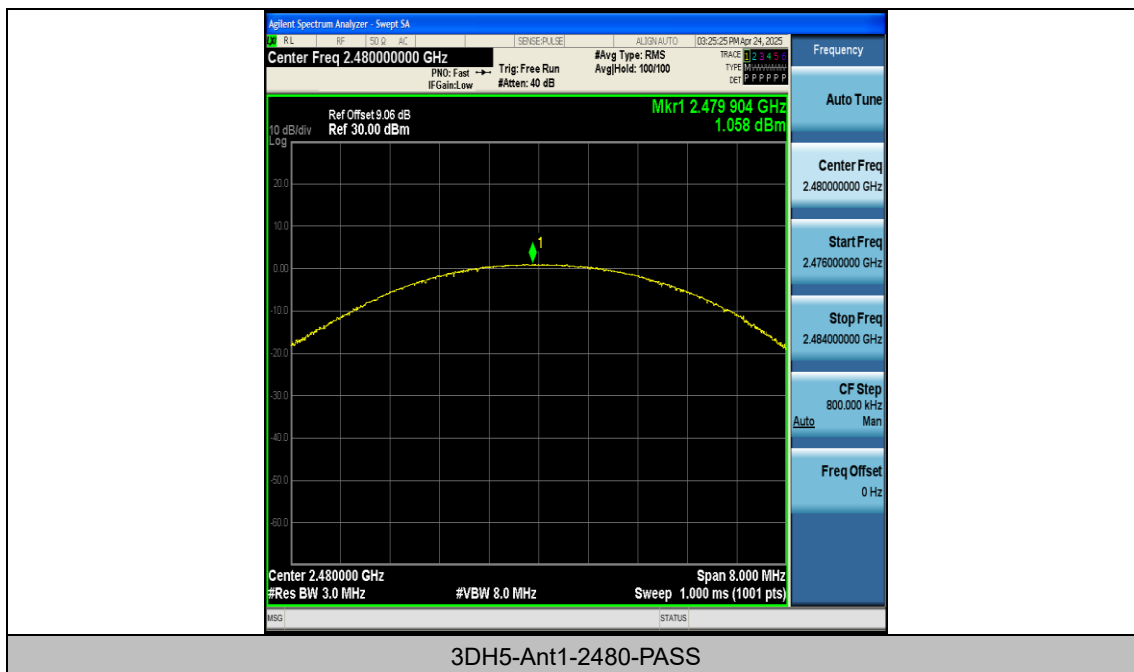
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



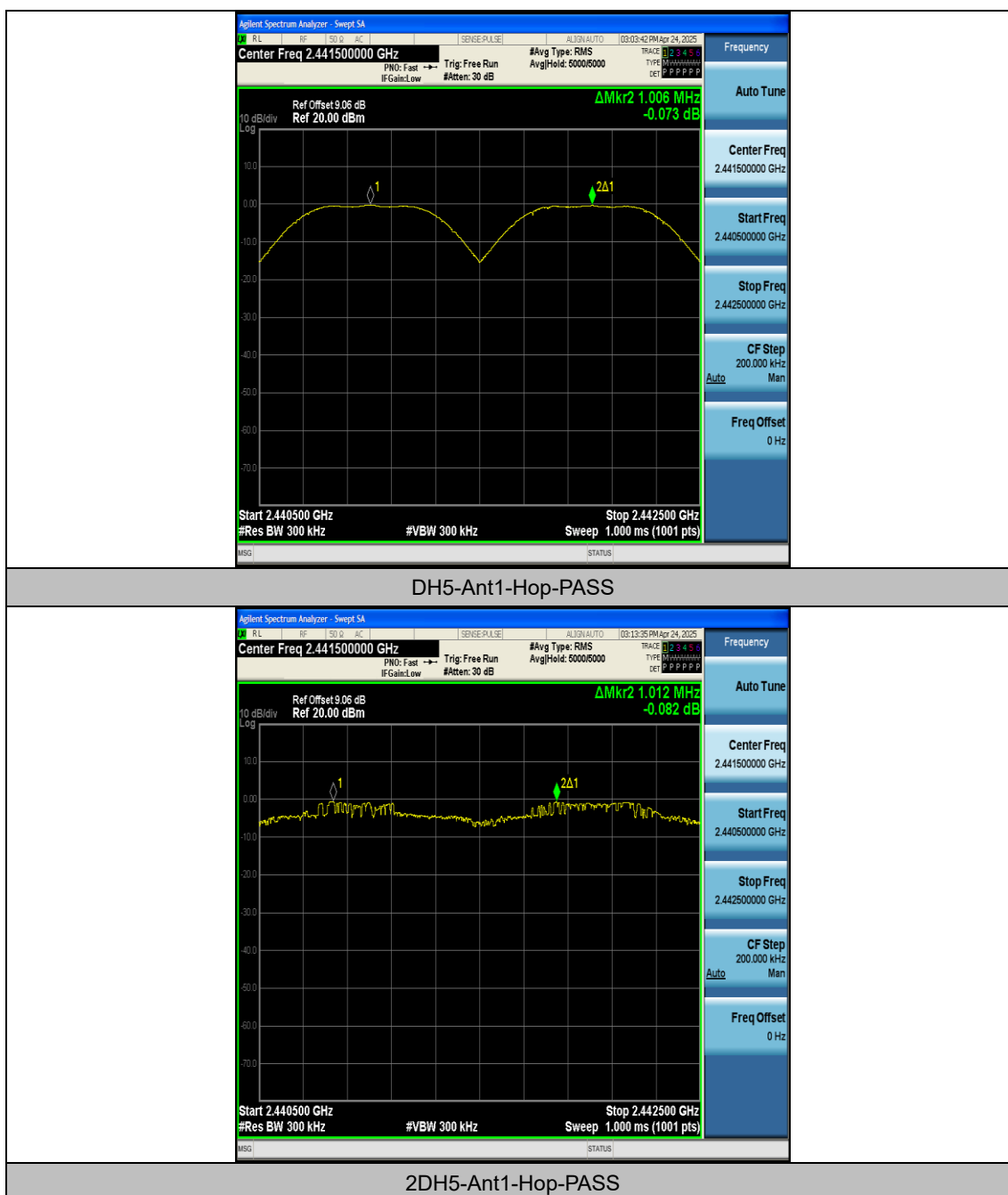
Appendix D: Carrier frequency separation

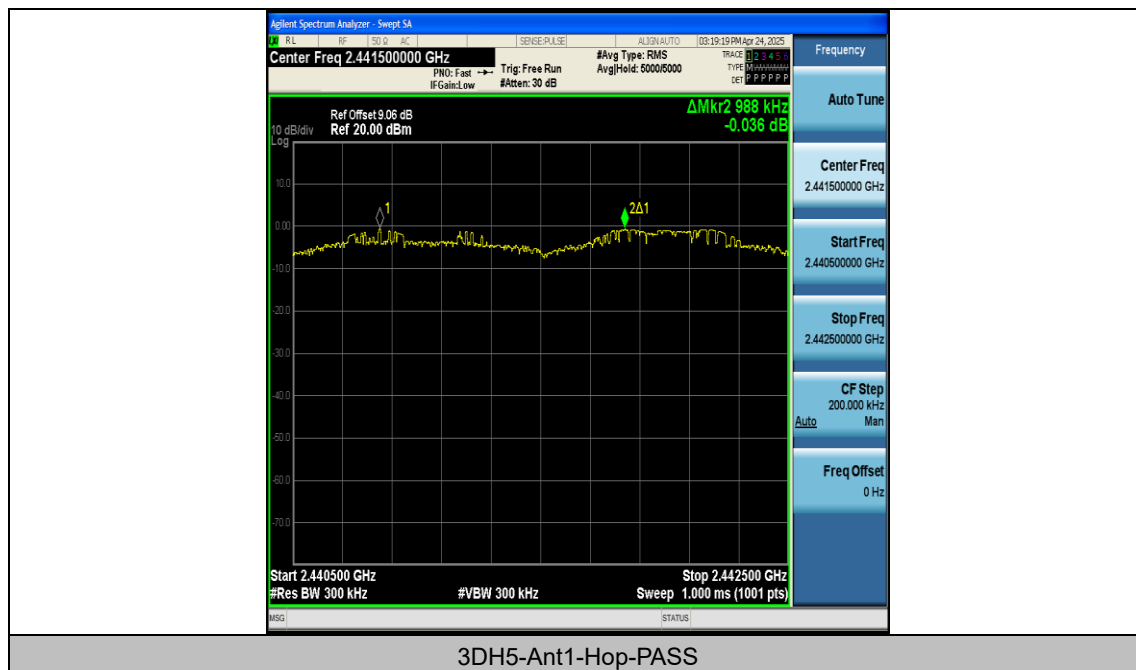
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	1.006	≥ 0.867	PASS
2DH5	Ant1	Hop	1.012	≥ 0.854	PASS
3DH5	Ant1	Hop	0.988	≥ 0.868	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





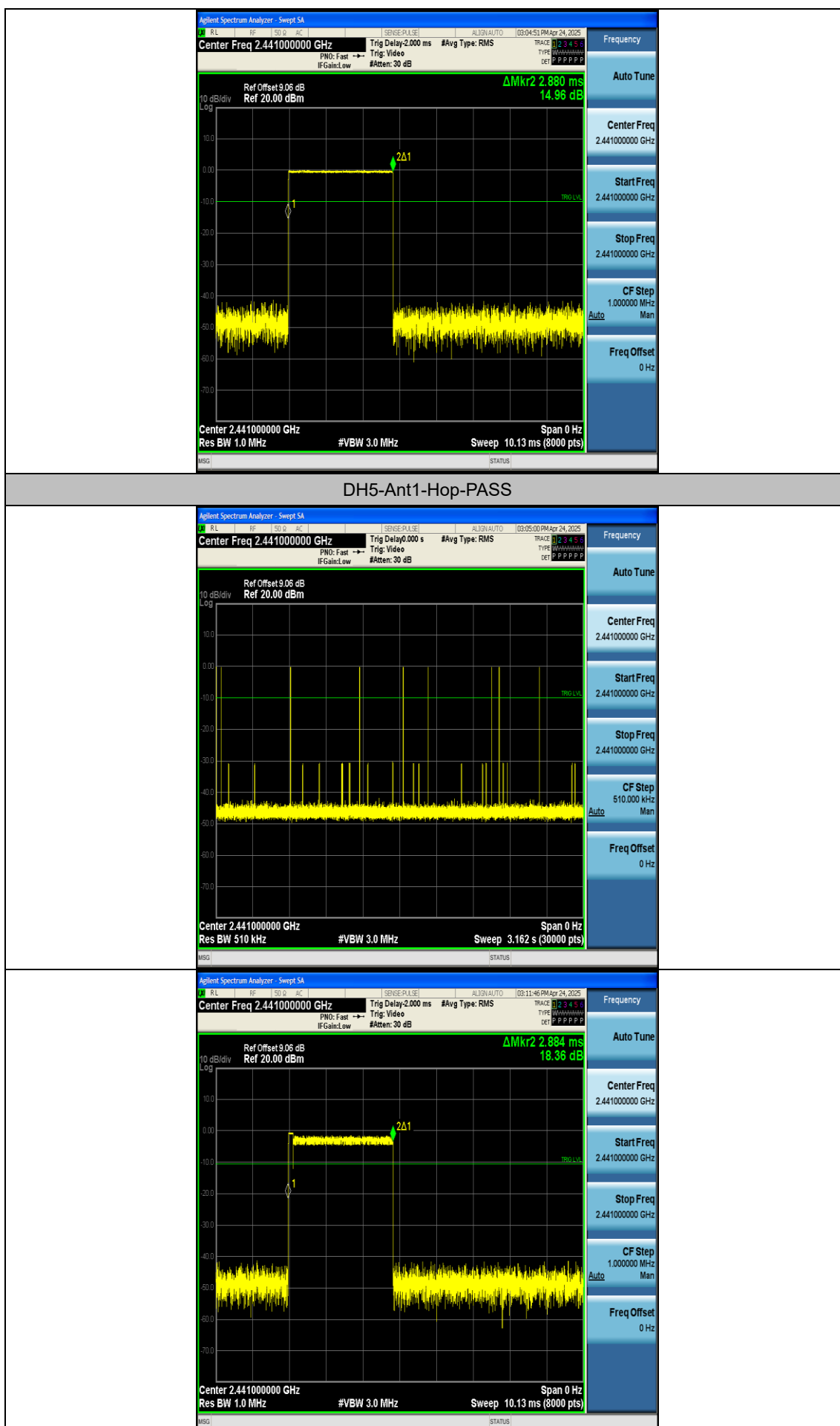
Appendix E: Time of occupancy

Test Result

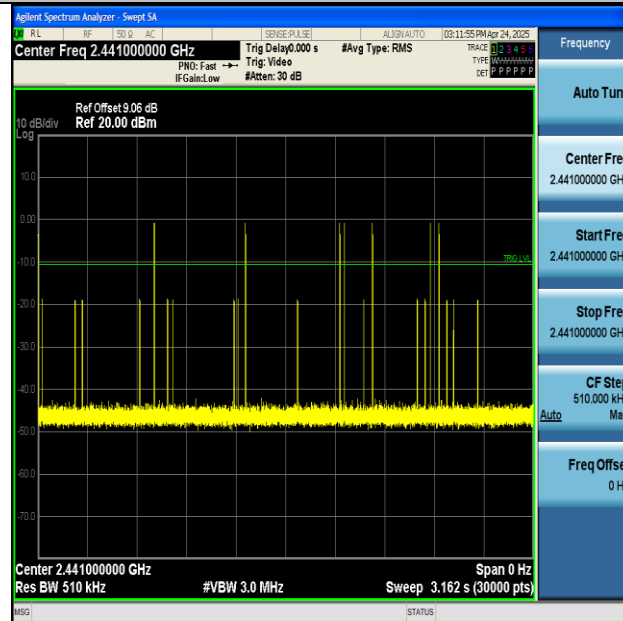
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.880	90	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.884	80	0.231	≤0.4	PASS
3DH5	Ant1	Hop	2.885	80	0.231	≤0.4	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

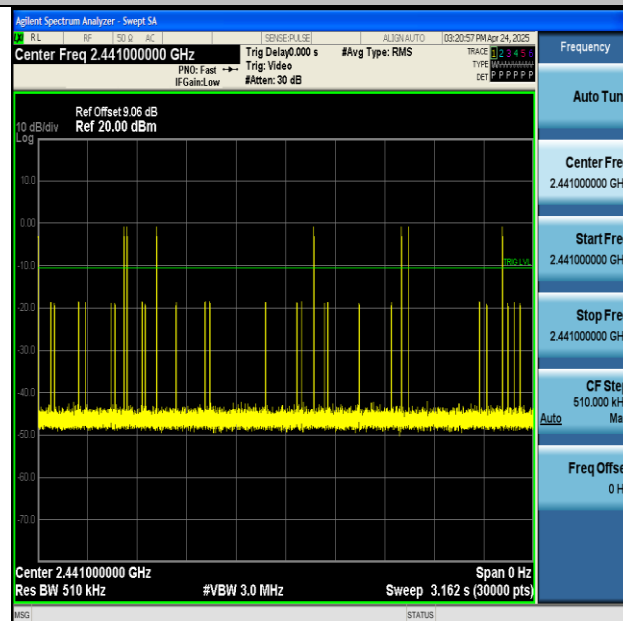
Test Graphs



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS



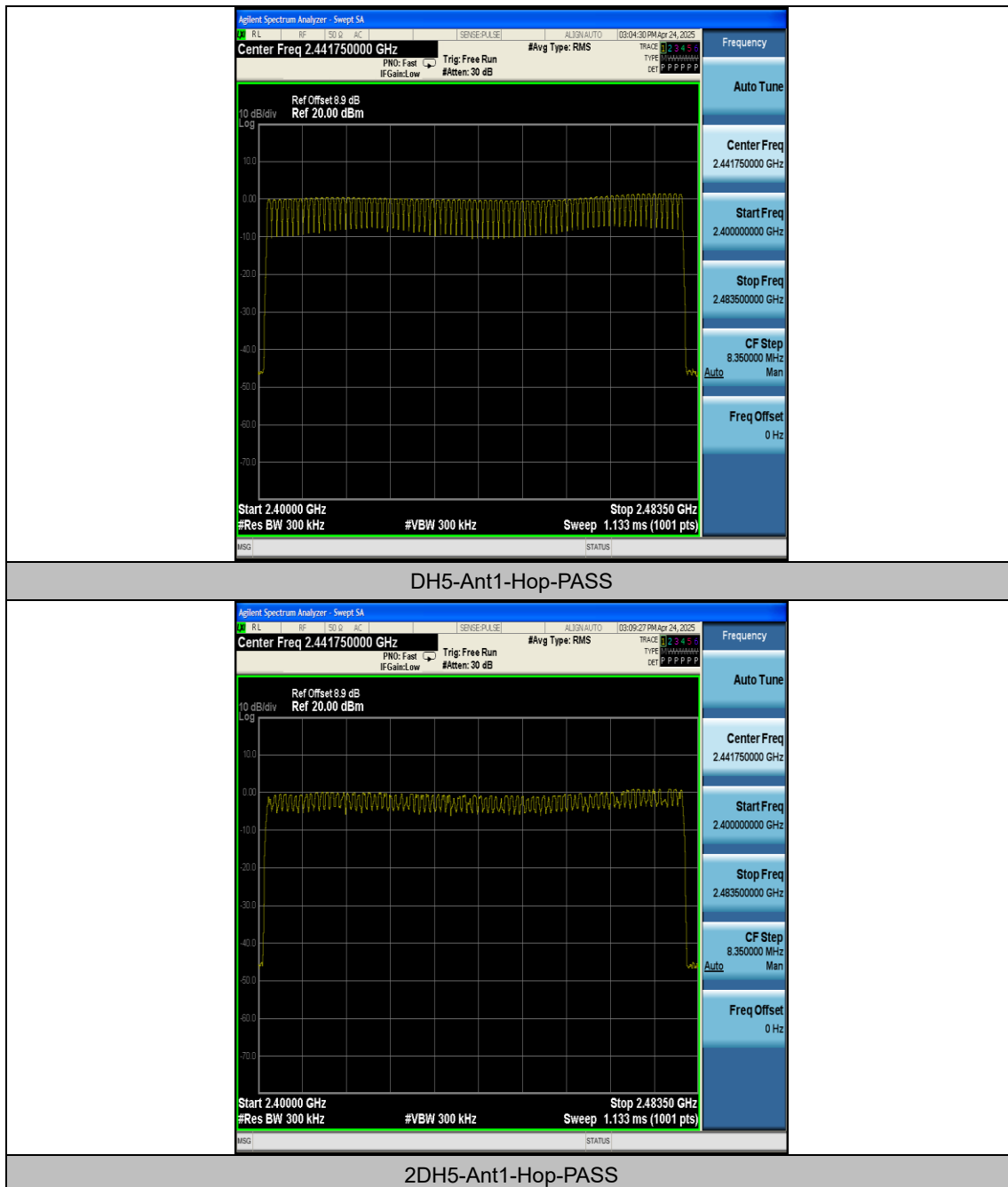
Appendix F: Number of hopping channels

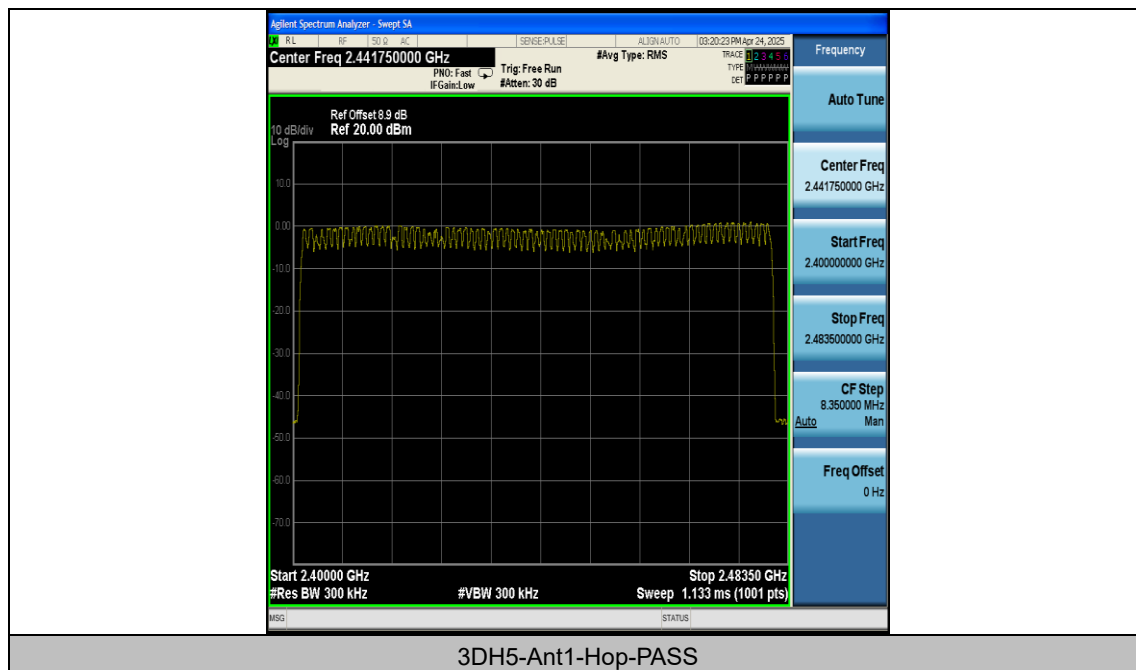
Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





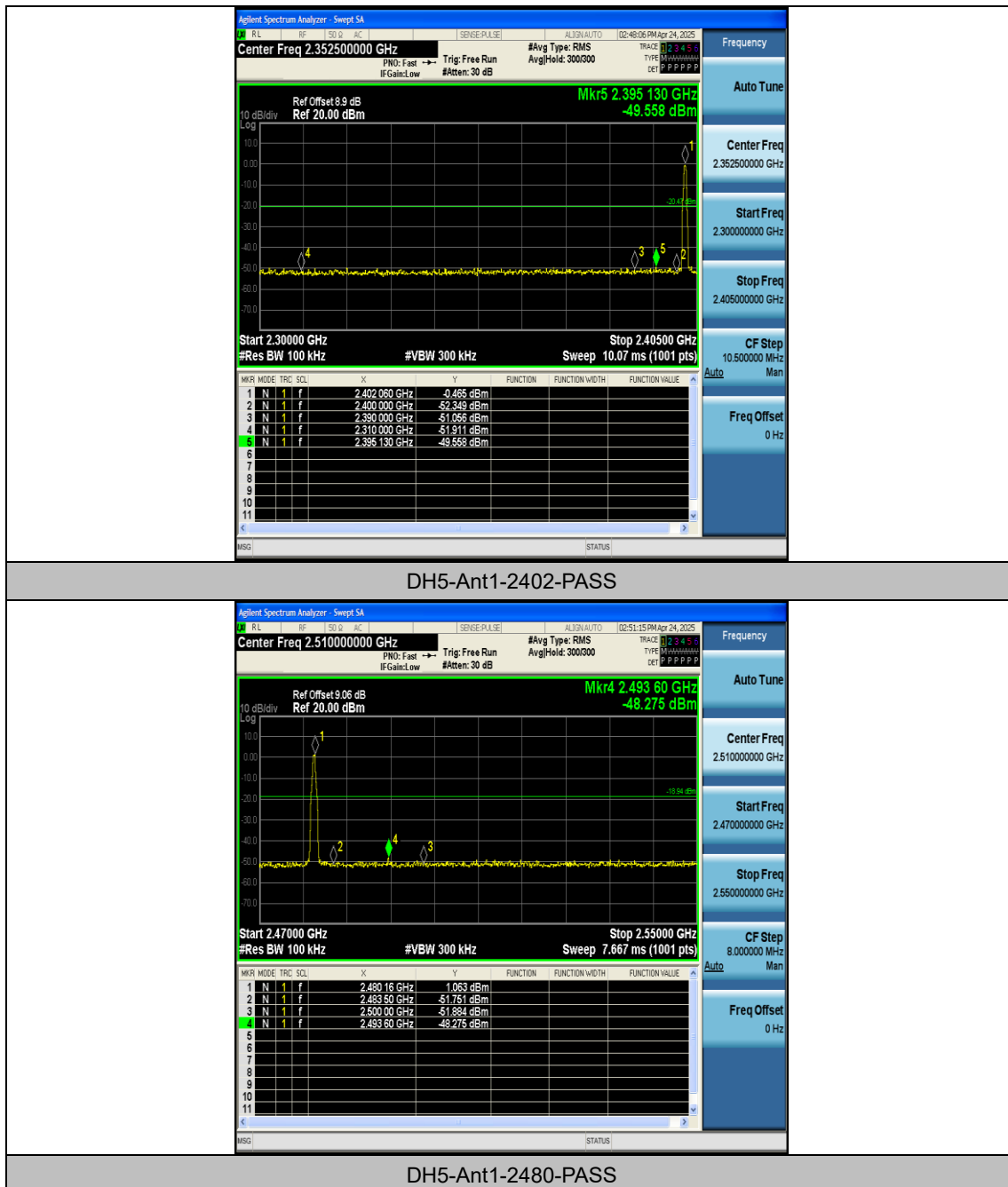
Appendix G: Band edge measurements

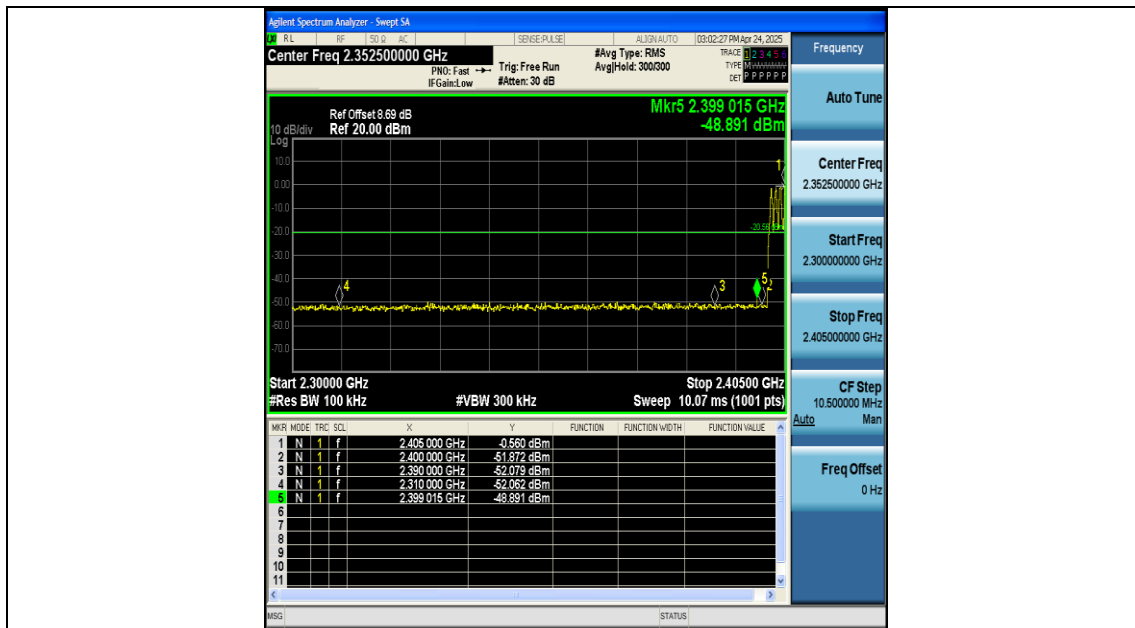
Test Result

Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.47	-49.56	≤ -20.47	PASS
DH5	Ant1	High	2480	1.06	-48.28	≤ -18.94	PASS
DH5	Ant1	Low	Hop_2402	-0.56	-48.89	≤ -20.56	PASS
DH5	Ant1	High	Hop_2480	1.28	-48.63	≤ -18.72	PASS
2DH5	Ant1	Low	2402	-0.74	-48.99	≤ -20.74	PASS
2DH5	Ant1	High	2480	0.77	-48.37	≤ -19.23	PASS
2DH5	Ant1	Low	Hop_2402	-6.07	-49.34	≤ -26.07	PASS
2DH5	Ant1	High	Hop_2480	0.86	-48.64	≤ -19.14	PASS
3DH5	Ant1	Low	2402	-0.92	-49.41	≤ -20.92	PASS
3DH5	Ant1	High	2480	0.78	-48.44	≤ -19.22	PASS
3DH5	Ant1	Low	Hop_2402	-6.84	-49.97	≤ -26.84	PASS
3DH5	Ant1	High	Hop_2480	-4.99	-48.79	≤ -24.99	PASS

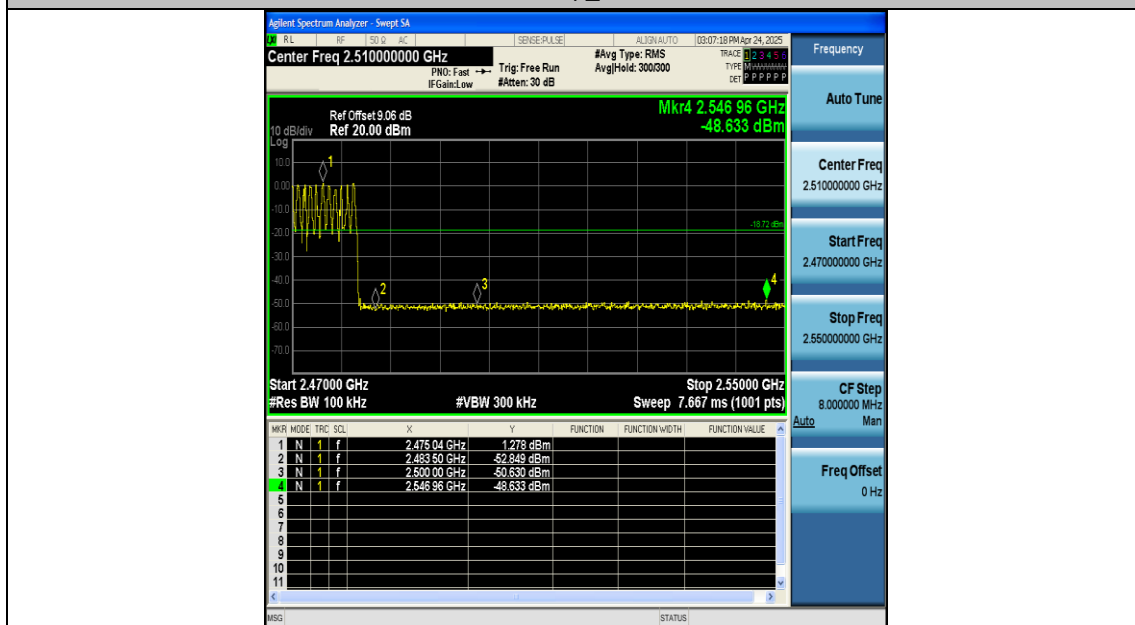
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

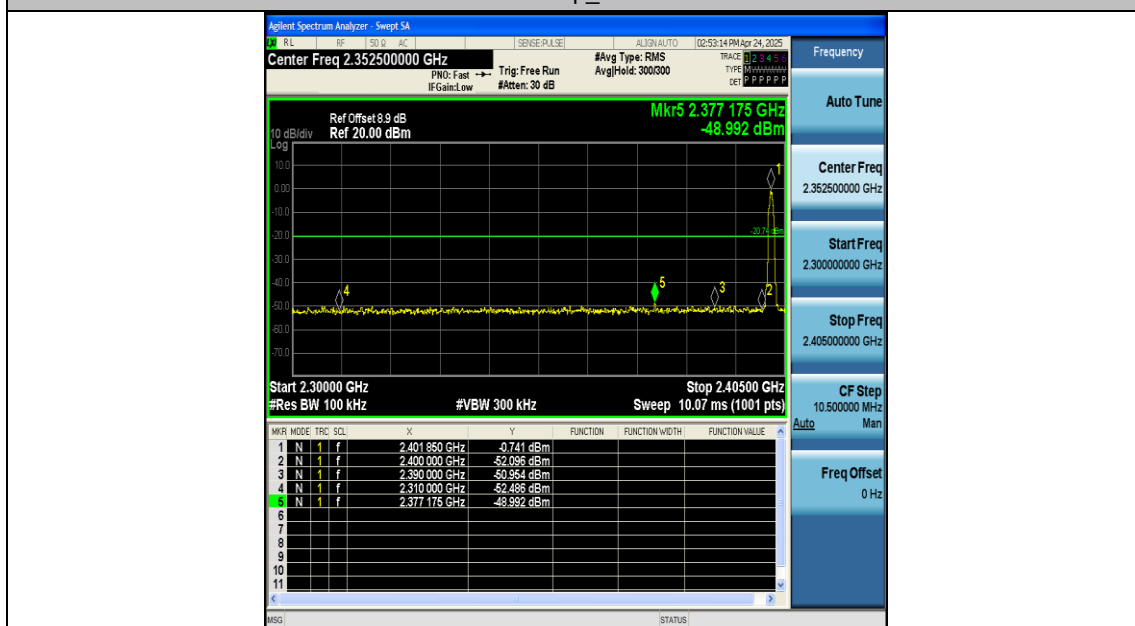




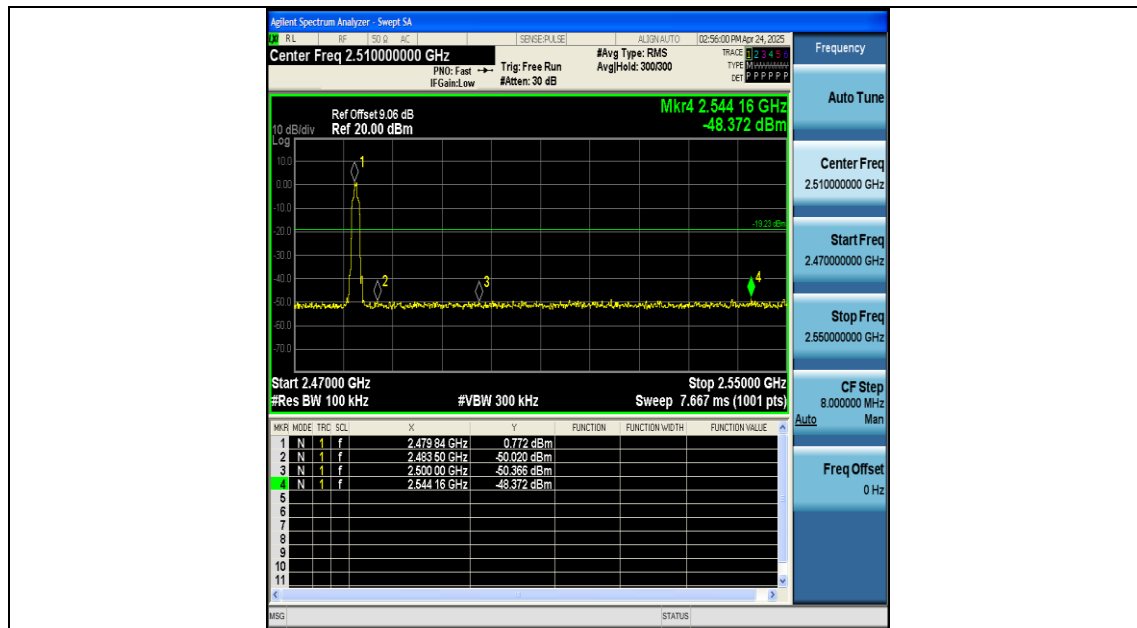
DH5-Ant1-Hop_2402-PASS



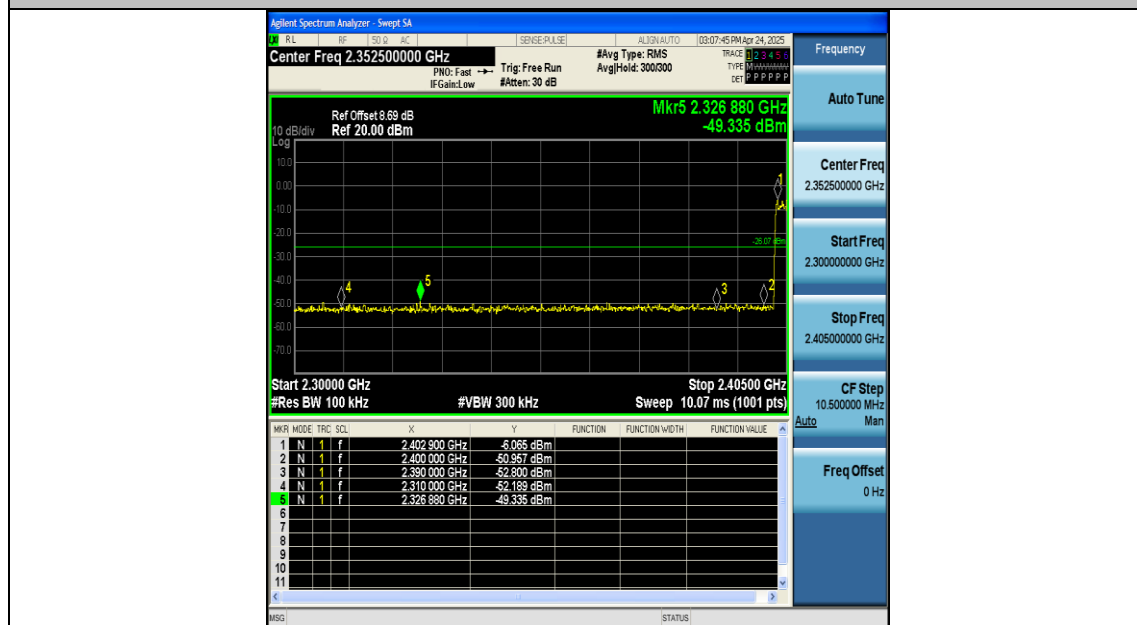
DH5-Ant1-Hop_2480-PASS



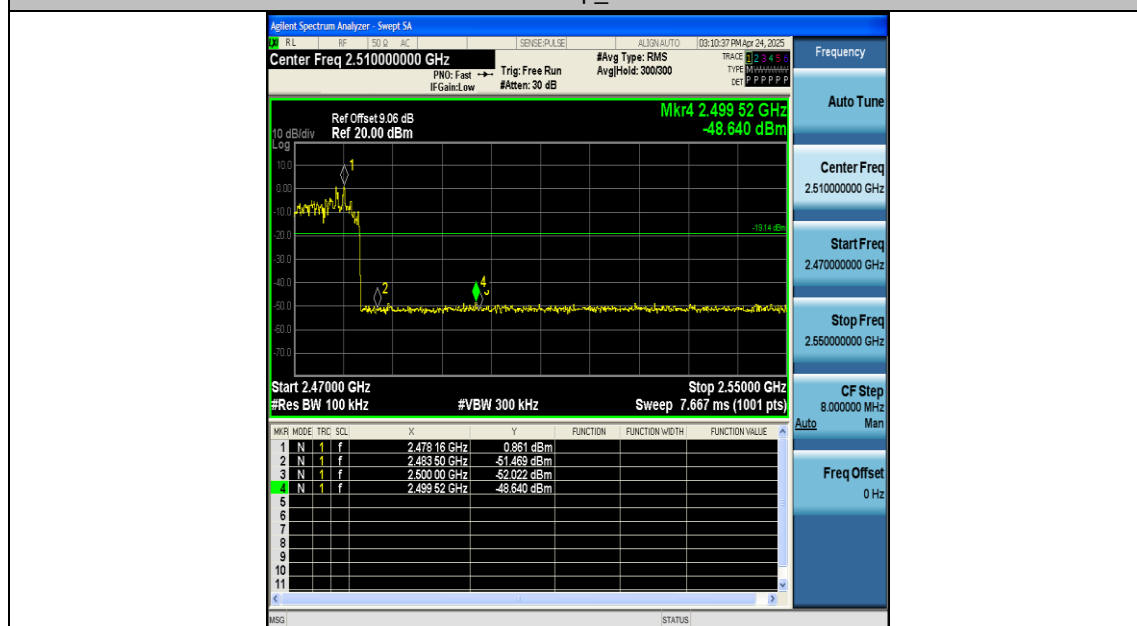
2DH5-Ant1-2402-PASS



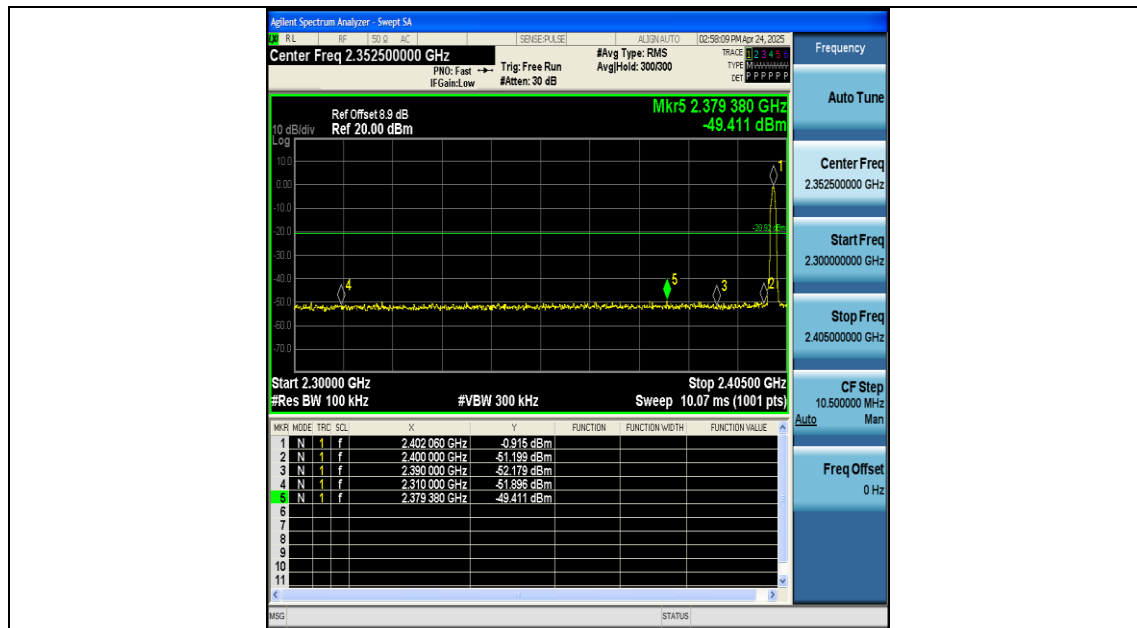
2DH5-Ant1-2480-PASS



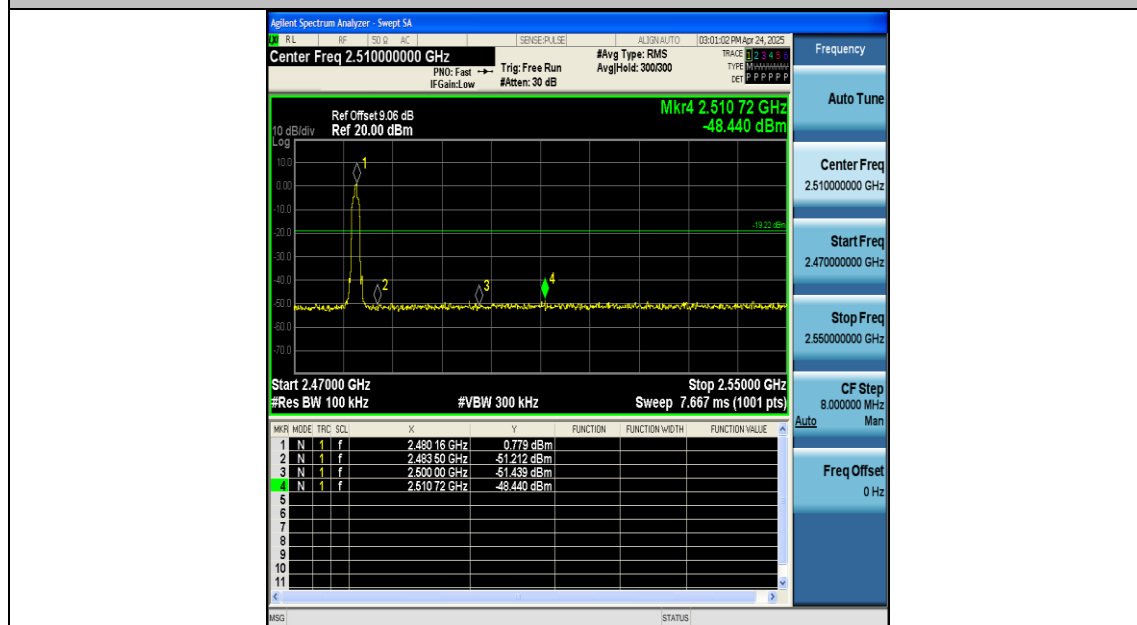
2DH5-Ant1-Hop_2402-PASS



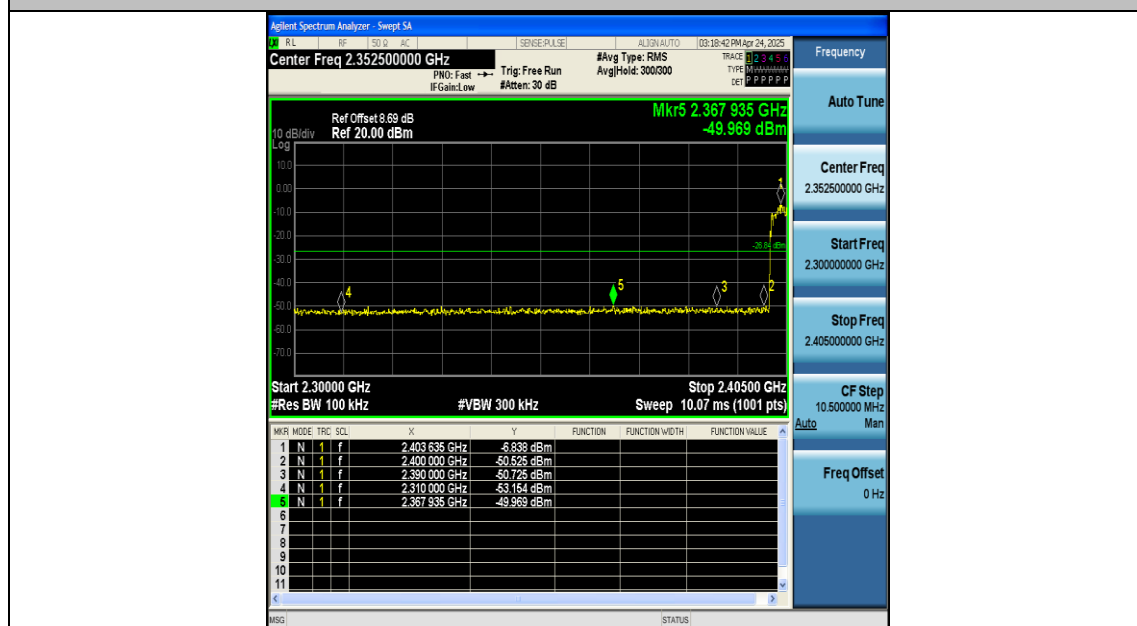
2DH5-Ant1-Hop_2480-PASS



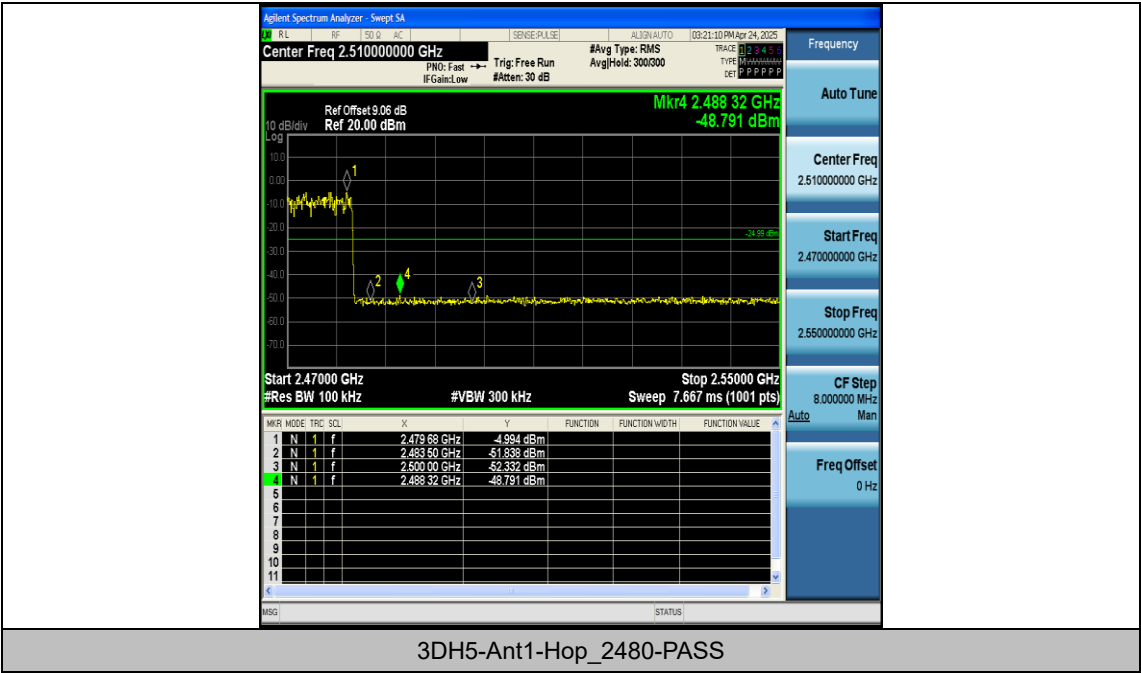
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS

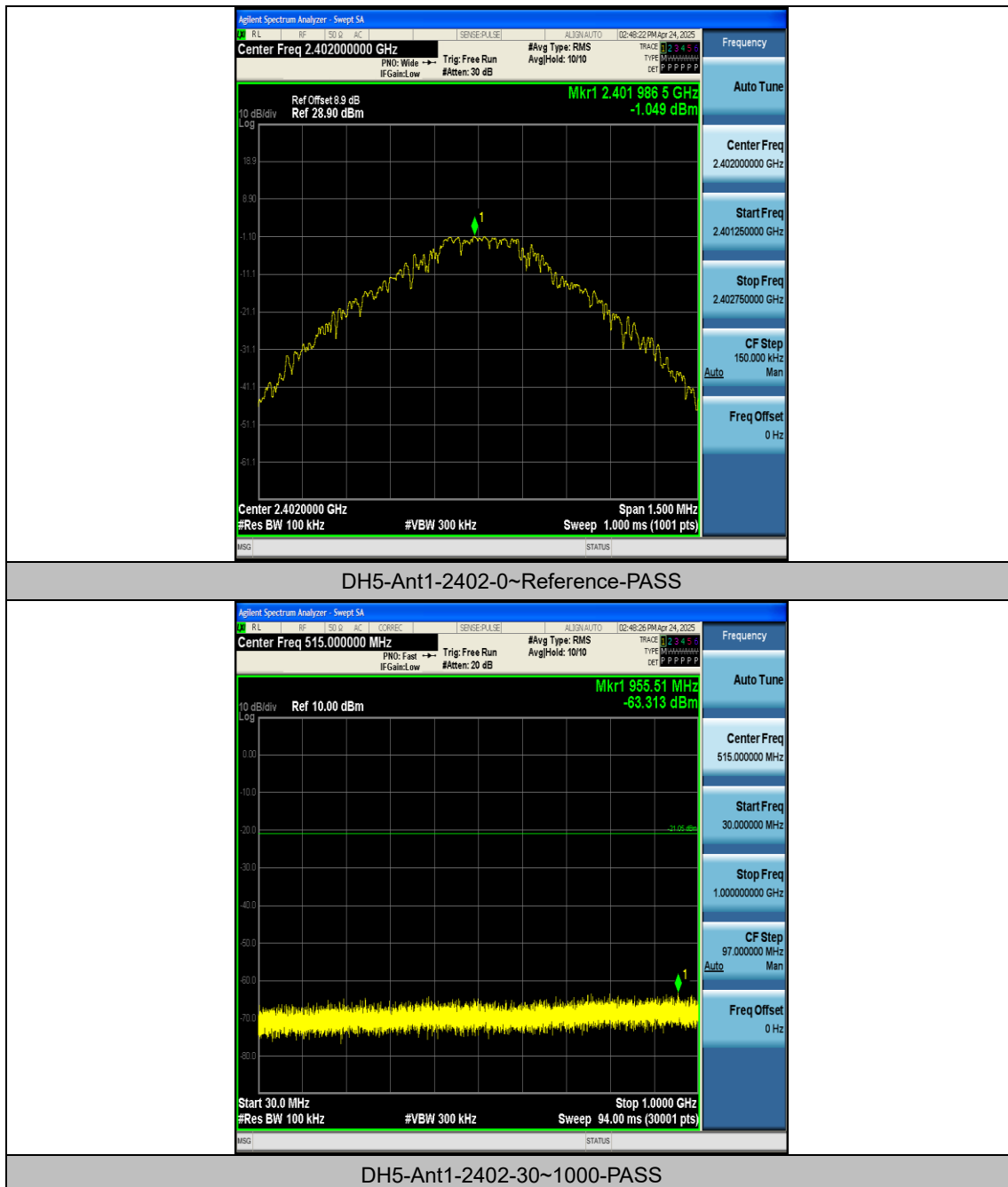
Appendix H: Conducted Spurious Emission

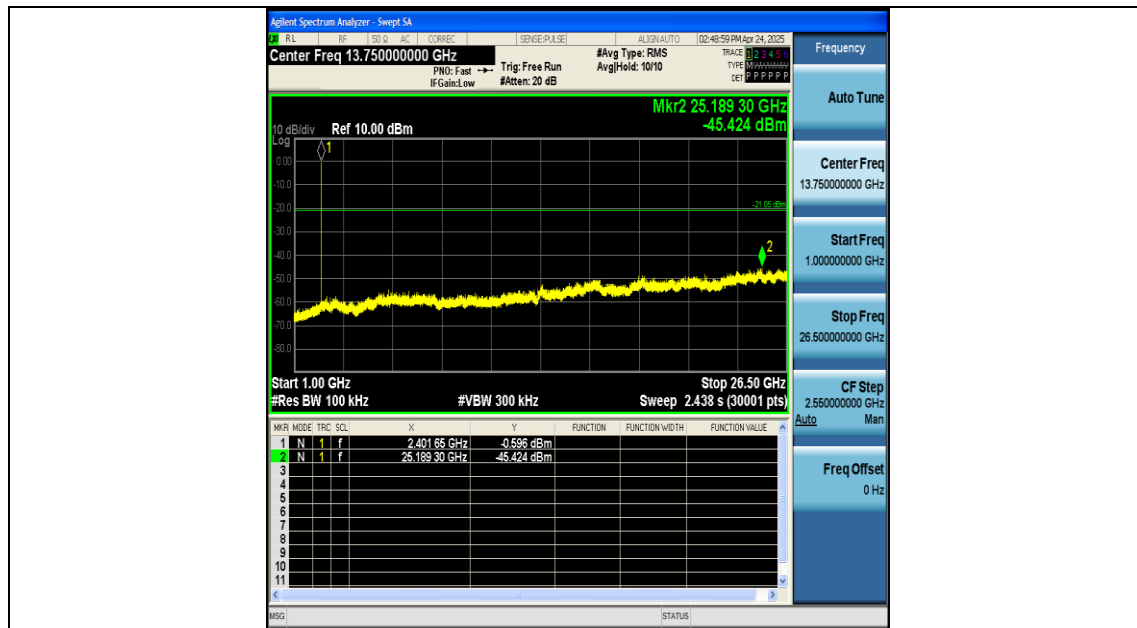
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.05	-1.05	---	PASS
DH5	Ant1	2402	30~1000	-1.05	-63.31	≤-21.05	PASS
DH5	Ant1	2402	1000~26500	-1.05	-45.42	≤-21.05	PASS
DH5	Ant1	2441	0~Reference	-0.83	-0.83	---	PASS
DH5	Ant1	2441	30~1000	-0.83	-62.84	≤-20.83	PASS
DH5	Ant1	2441	1000~26500	-0.83	-44.84	≤-20.83	PASS
DH5	Ant1	2480	0~Reference	0.70	0.70	---	PASS
DH5	Ant1	2480	30~1000	0.70	-62.9	≤-19.3	PASS
DH5	Ant1	2480	1000~26500	0.70	-45.31	≤-19.3	PASS
2DH5	Ant1	2402	0~Reference	-3.10	-3.10	---	PASS
2DH5	Ant1	2402	30~1000	-3.10	-62.43	≤-23.1	PASS
2DH5	Ant1	2402	1000~26500	-3.10	-45.67	≤-23.1	PASS
2DH5	Ant1	2441	0~Reference	-1.56	-1.56	---	PASS
2DH5	Ant1	2441	30~1000	-1.56	-63.38	≤-21.56	PASS
2DH5	Ant1	2441	1000~26500	-1.56	-45.08	≤-21.56	PASS
2DH5	Ant1	2480	0~Reference	-4.74	-4.74	---	PASS
2DH5	Ant1	2480	30~1000	-4.74	-63.14	≤-24.74	PASS
2DH5	Ant1	2480	1000~26500	-4.74	-45.4	≤-24.74	PASS
3DH5	Ant1	2402	0~Reference	-5.31	-5.31	---	PASS
3DH5	Ant1	2402	30~1000	-5.31	-63.1	≤-25.31	PASS
3DH5	Ant1	2402	1000~26500	-5.31	-45.36	≤-25.31	PASS
3DH5	Ant1	2441	0~Reference	-6.45	-6.45	---	PASS
3DH5	Ant1	2441	30~1000	-6.45	-62.57	≤-26.45	PASS
3DH5	Ant1	2441	1000~26500	-6.45	-45.55	≤-26.45	PASS
3DH5	Ant1	2480	0~Reference	0.63	0.63	---	PASS
3DH5	Ant1	2480	30~1000	0.63	-61.97	≤-19.37	PASS
3DH5	Ant1	2480	1000~26500	0.63	-44.79	≤-19.37	PASS

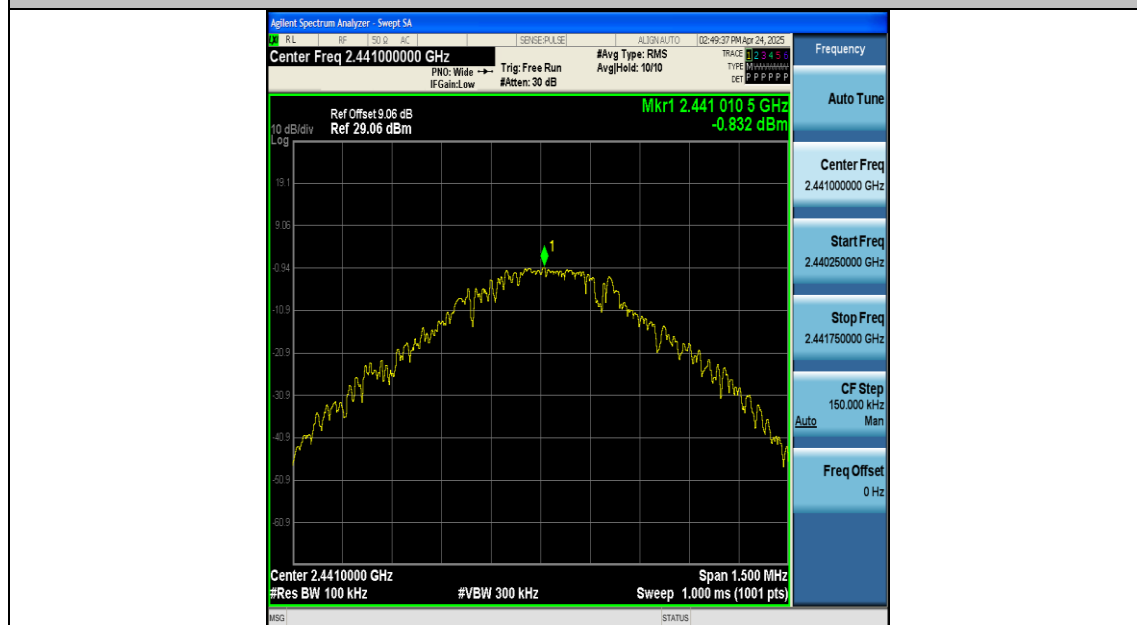
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

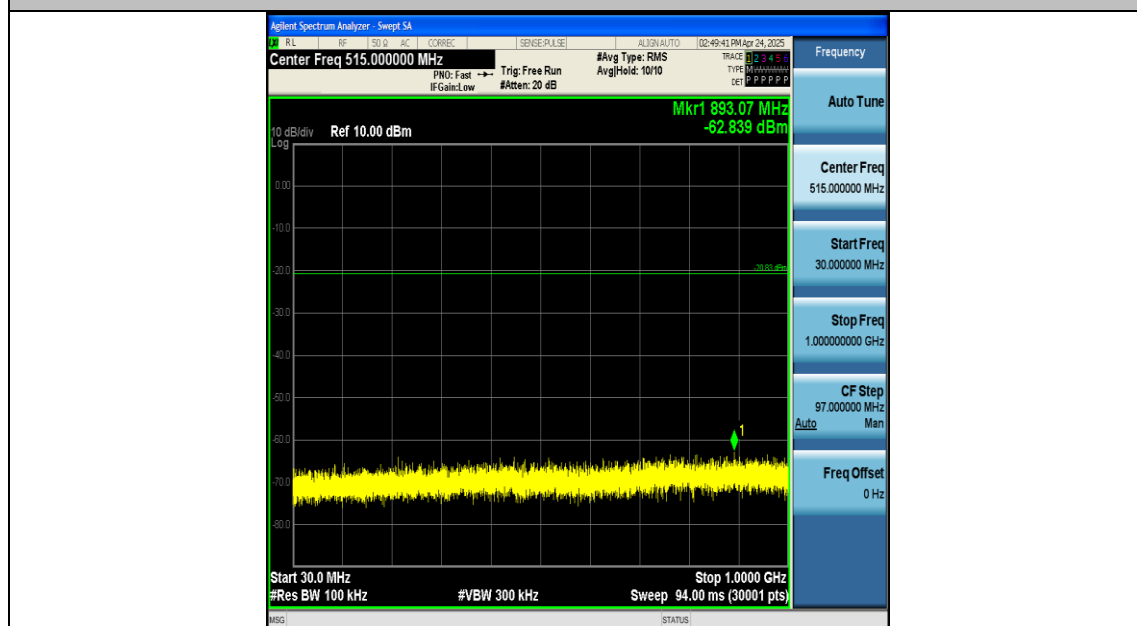




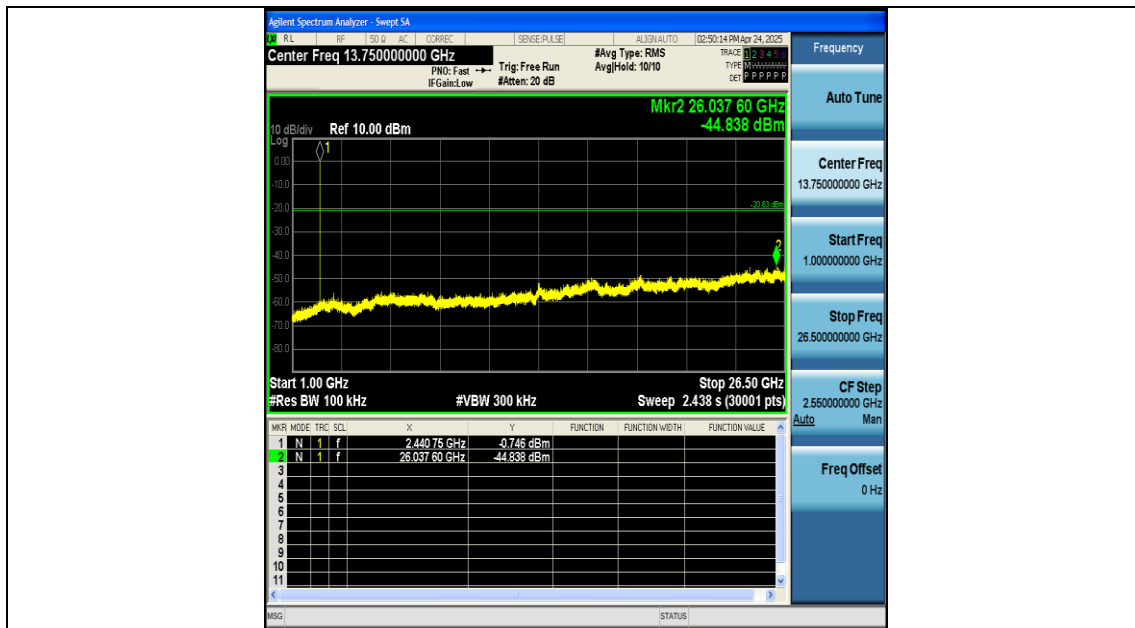
DH5-Ant1-2402-1000~26500-PASS



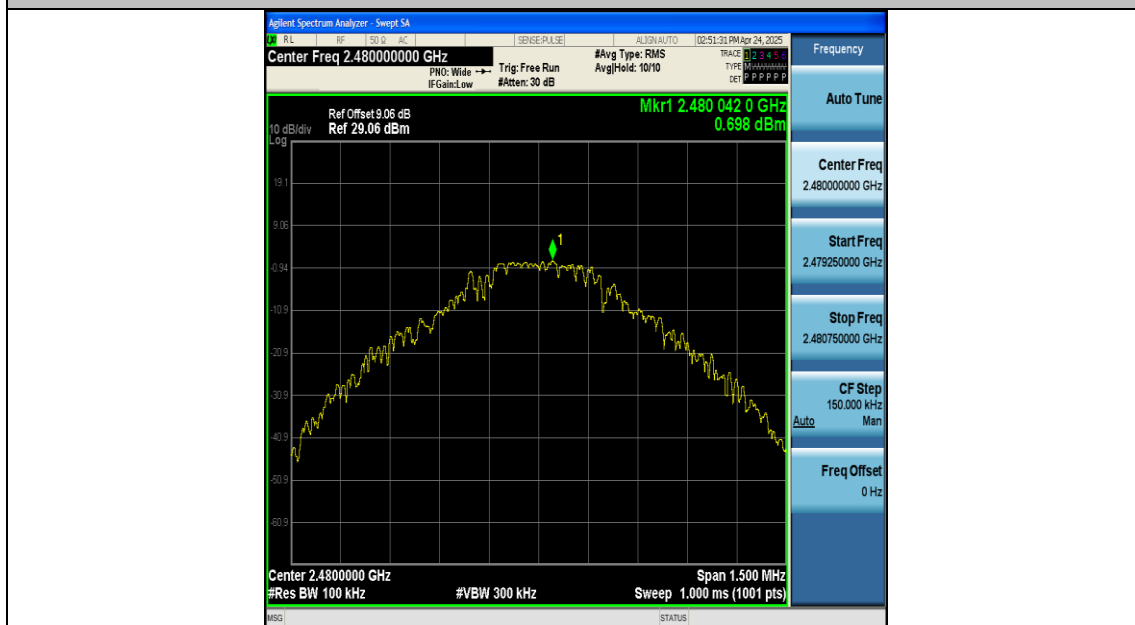
DH5-Ant1-2441-0~Reference-PASS



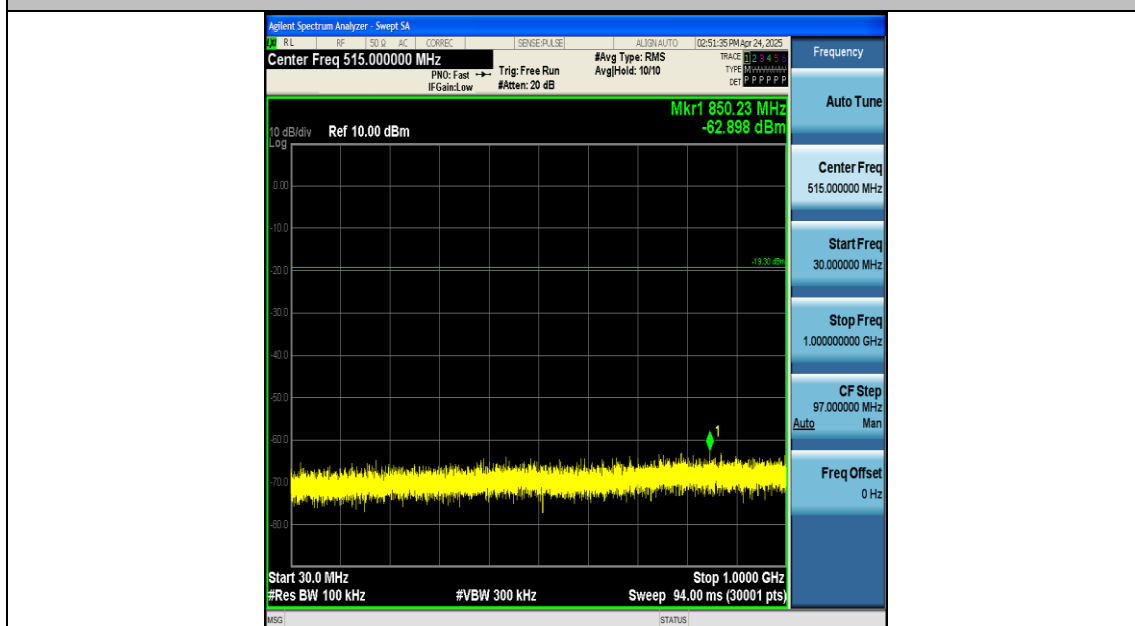
DH5-Ant1-2441-30~1000-PASS



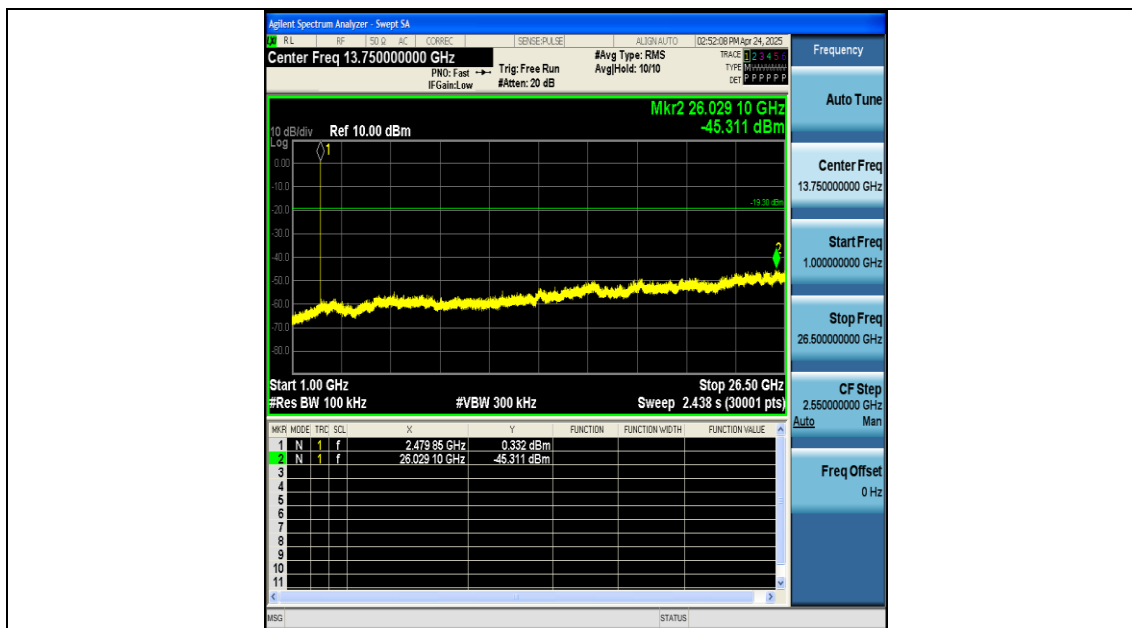
DH5-Ant1-2441-1000~26500-PASS



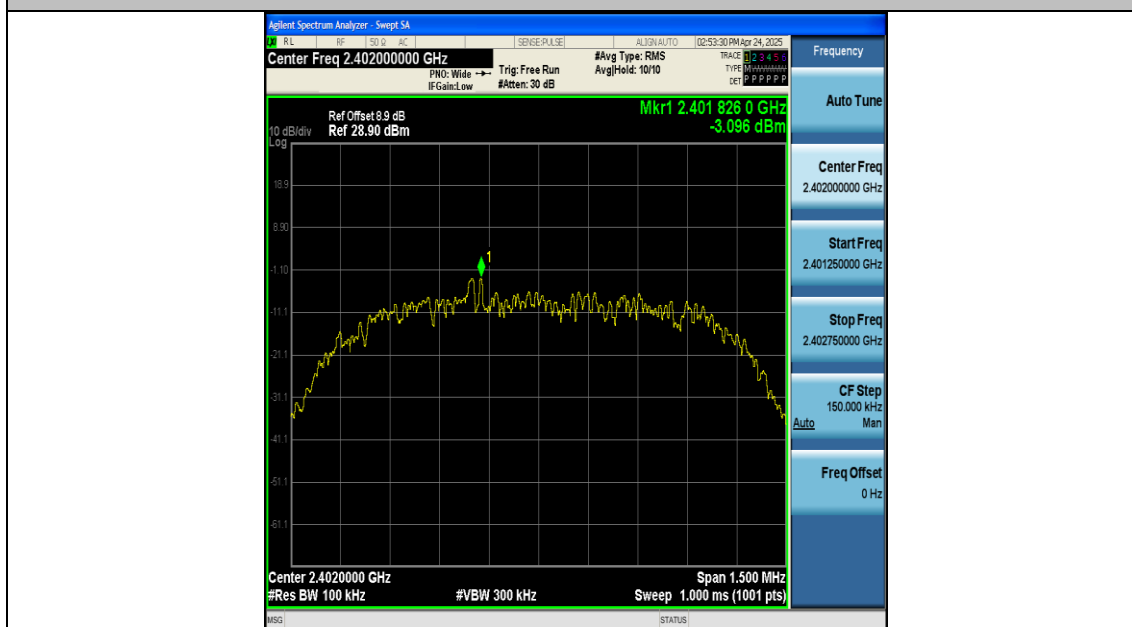
DH5-Ant1-2480-0~Reference-PASS



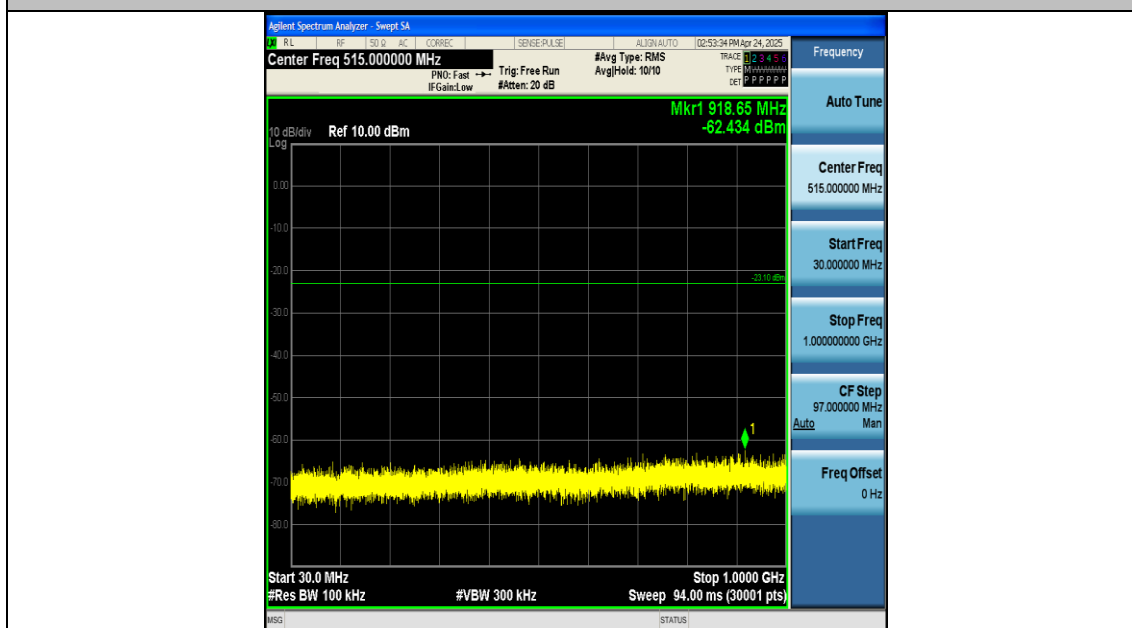
DH5-Ant1-2480-30~1000-PASS



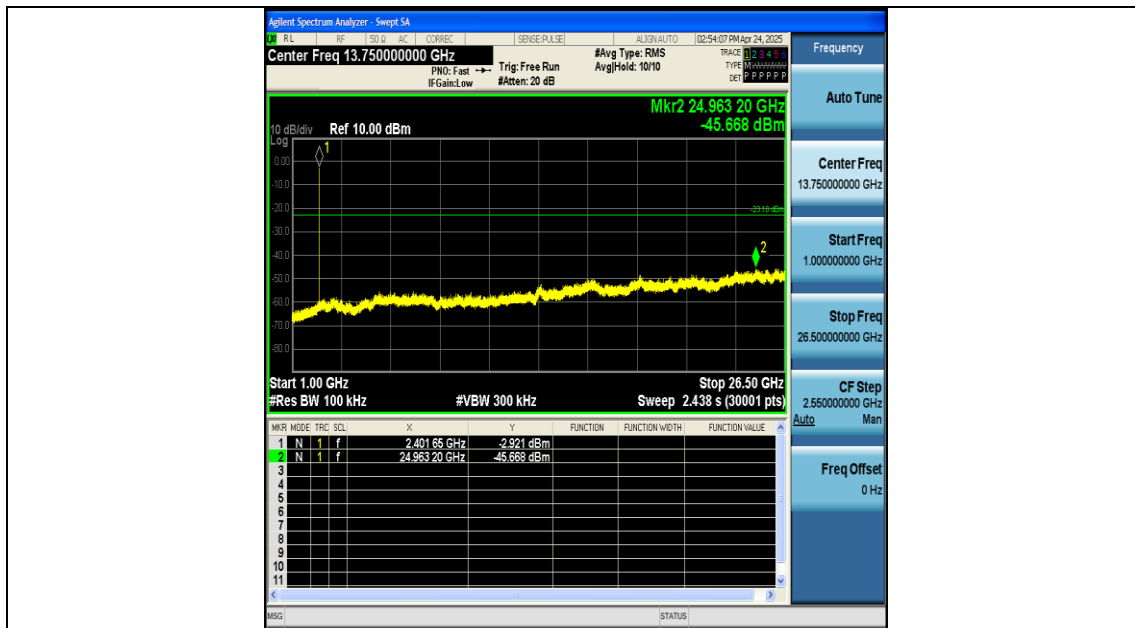
DH5-Ant1-2480-1000~26500-PASS



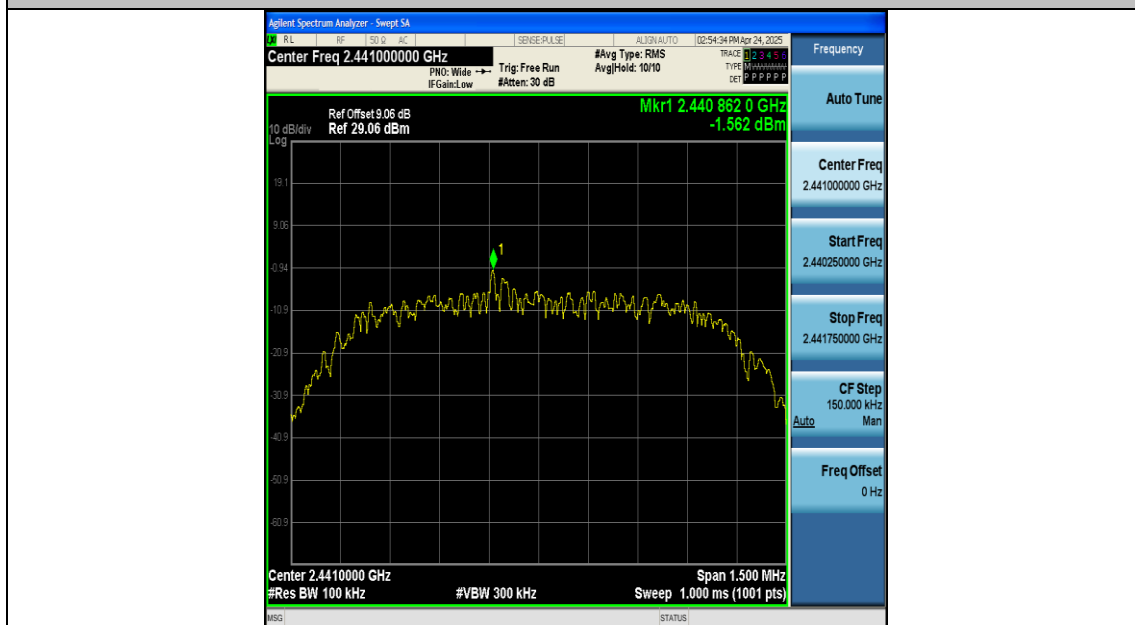
2DH5-Ant1-2402-0~Reference-PASS



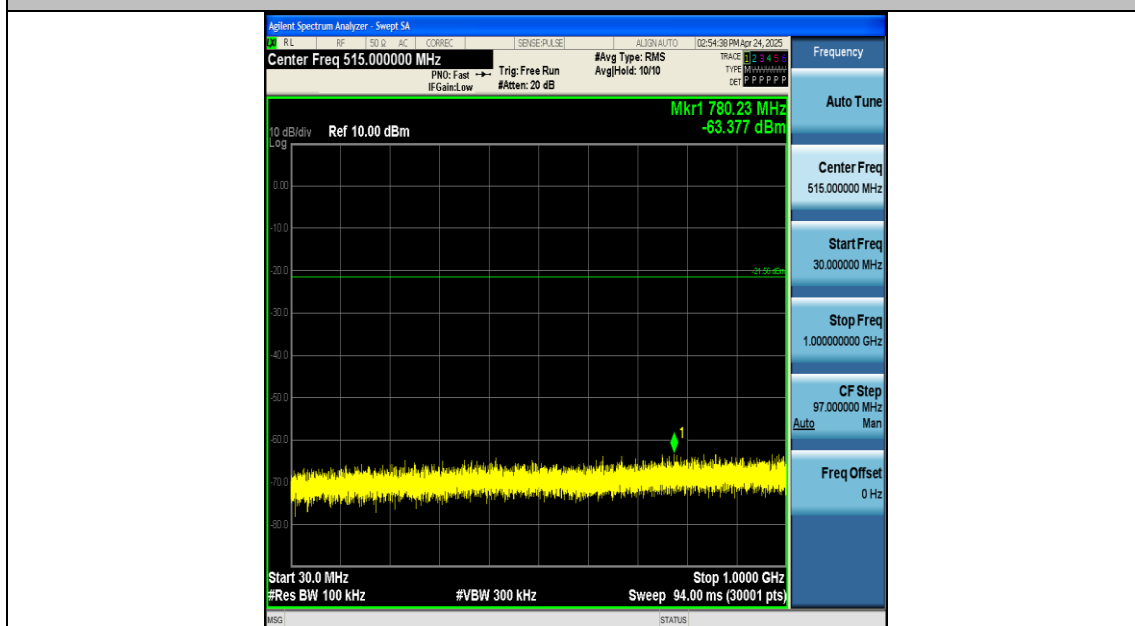
2DH5-Ant1-2402-30~1000-PASS



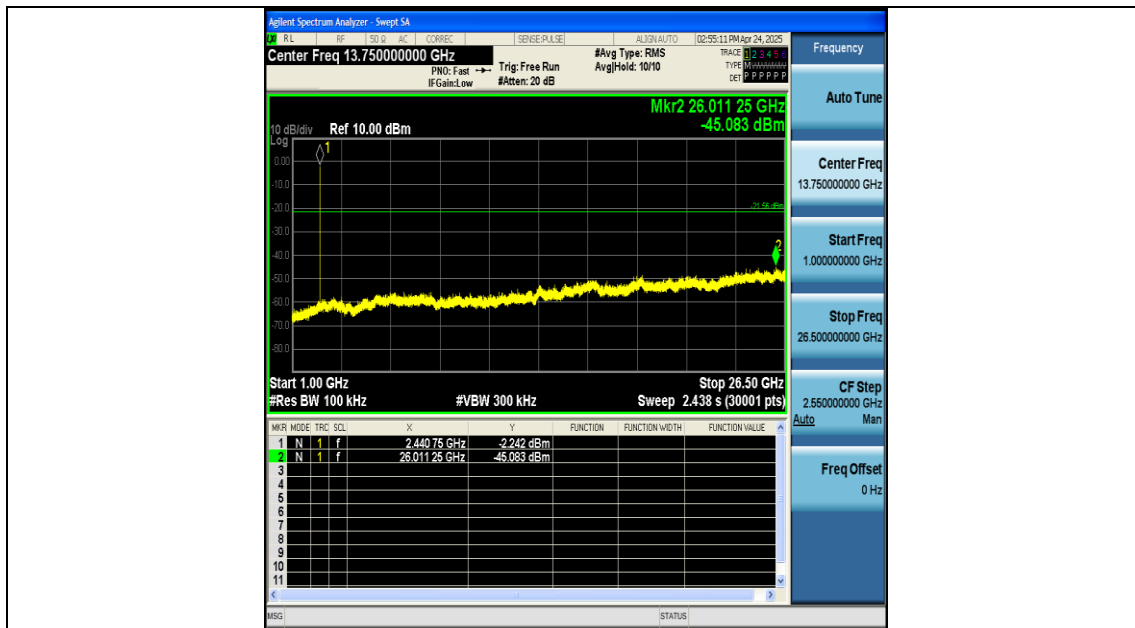
2DH5-Ant1-2402-1000~26500-PASS



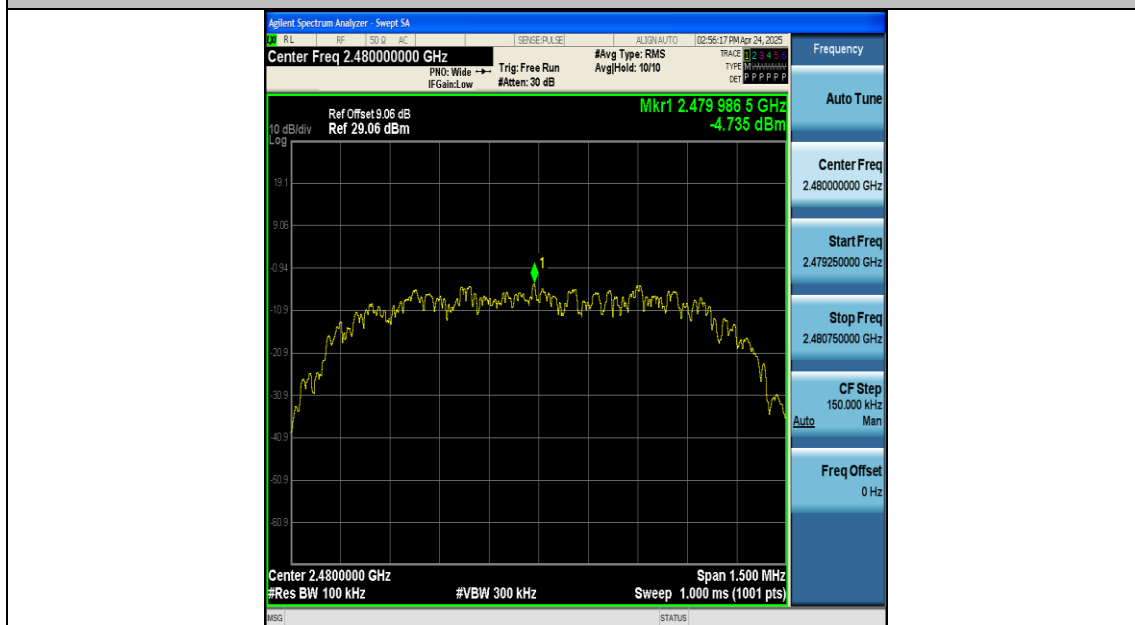
2DH5-Ant1-2441-0~Reference-PASS



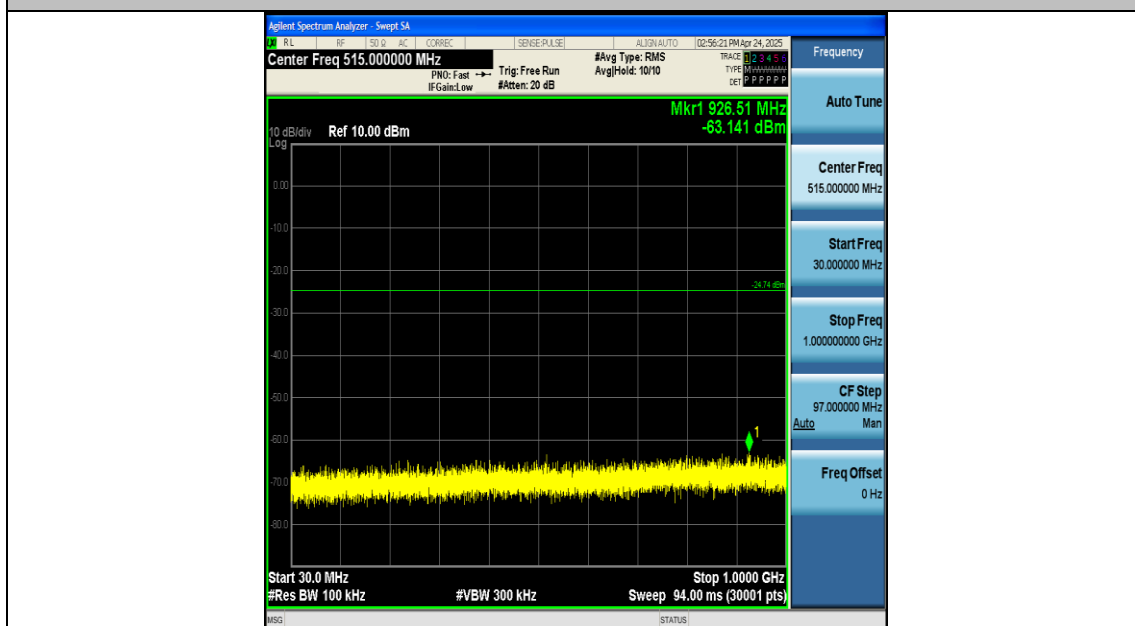
2DH5-Ant1-2441-30~1000-PASS



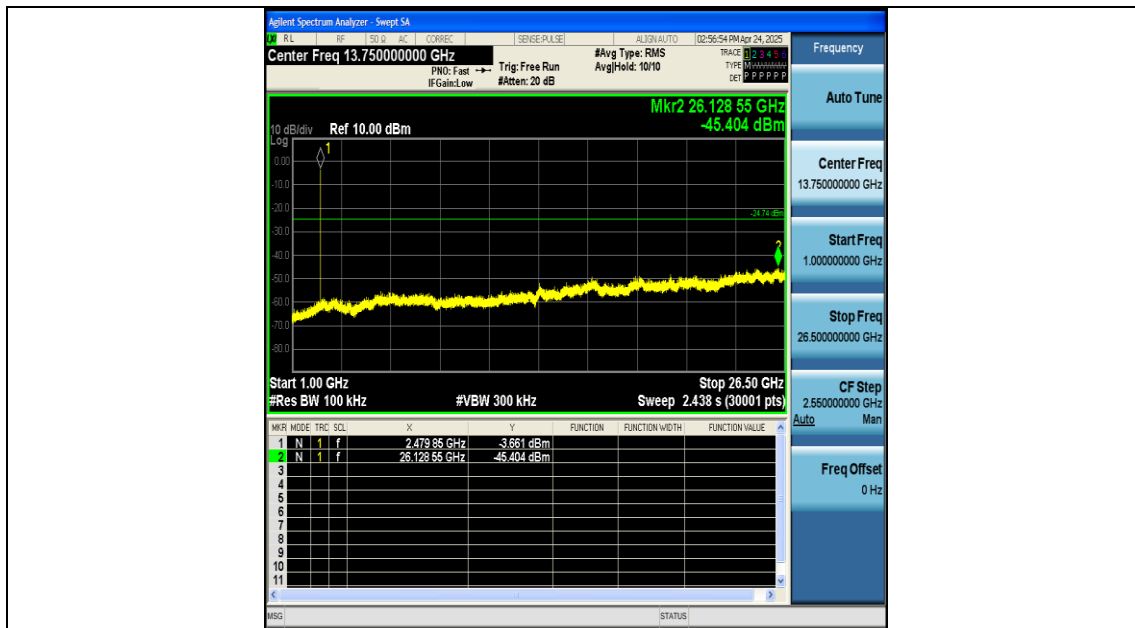
2DH5-Ant1-2441-1000~26500-PASS



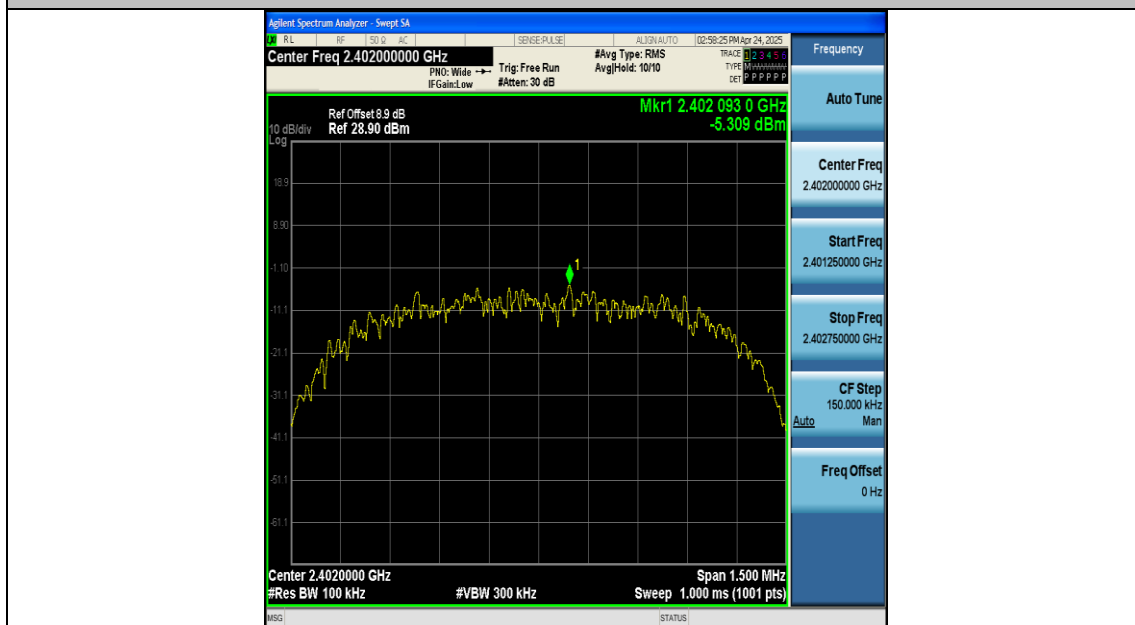
2DH5-Ant1-2480-0~Reference-PASS



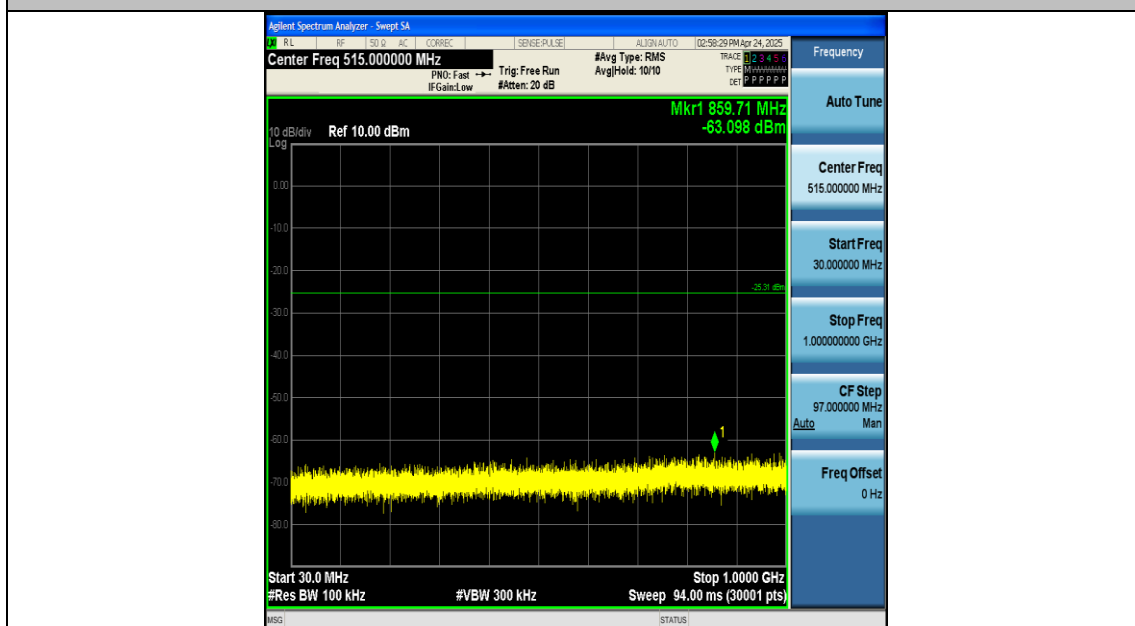
2DH5-Ant1-2480-30~1000-PASS



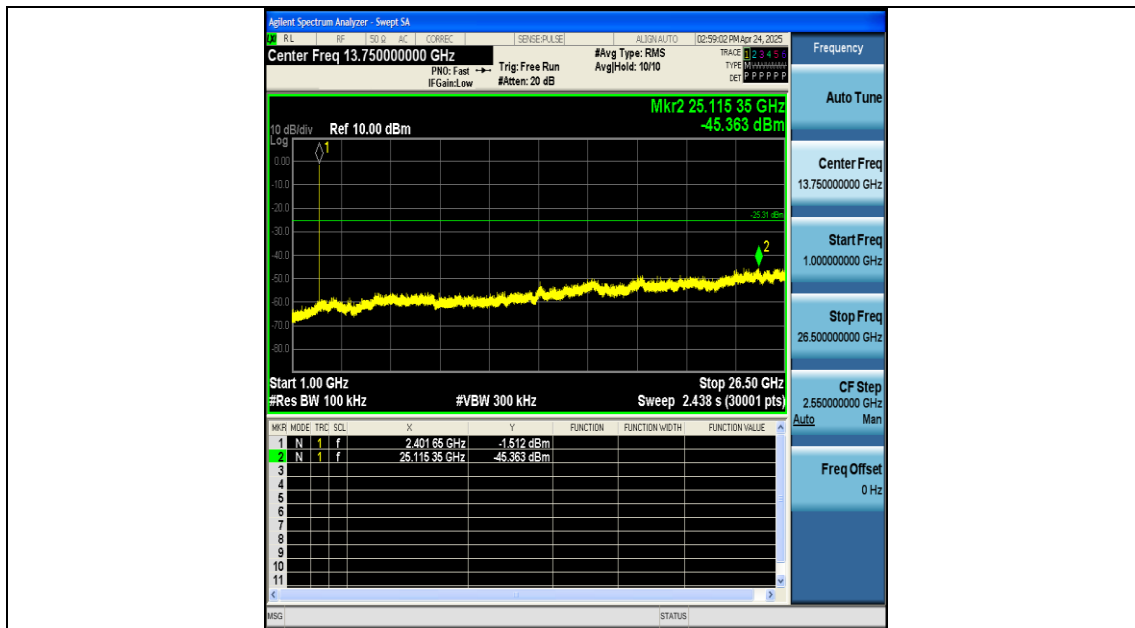
2DH5-Ant1-2480-1000~26500-PASS



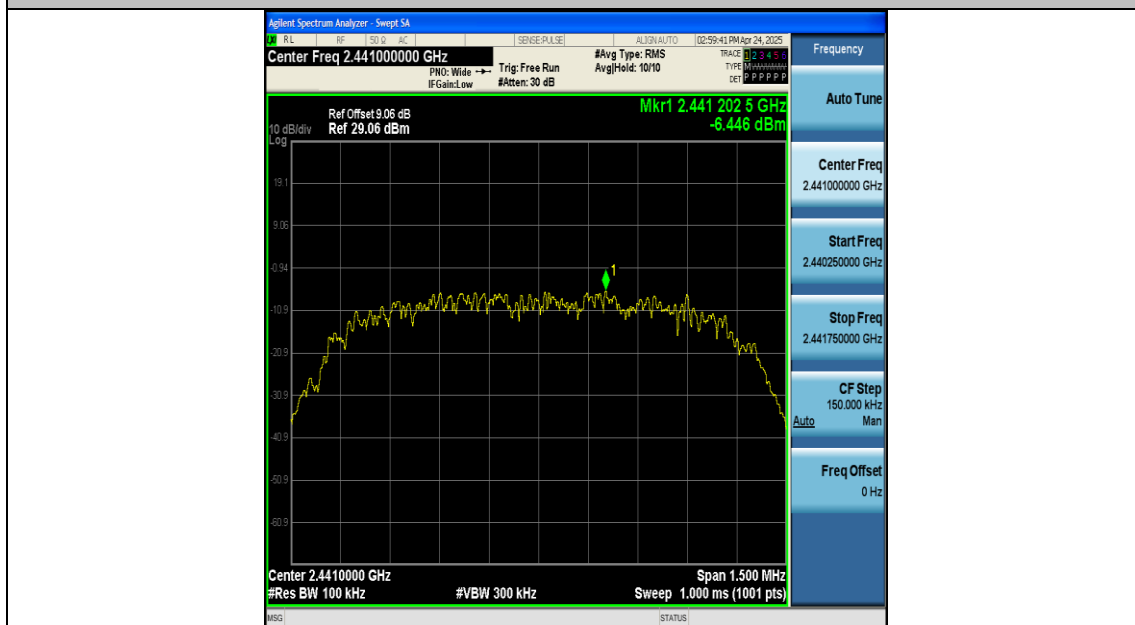
3DH5-Ant1-2402-0~Reference-PASS



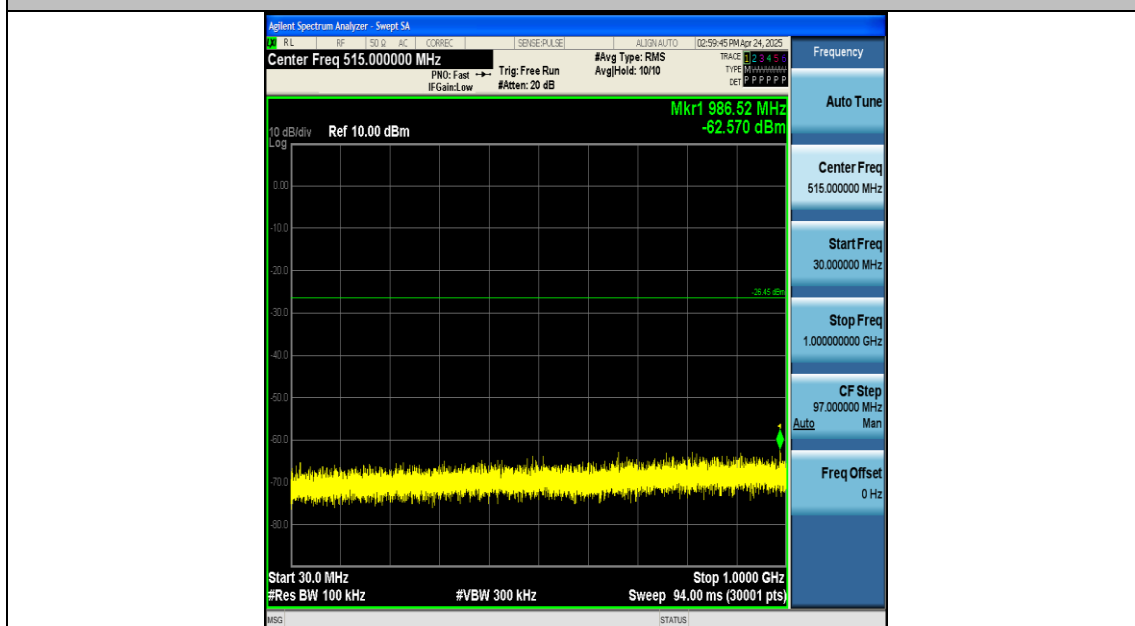
3DH5-Ant1-2402-30~1000-PASS



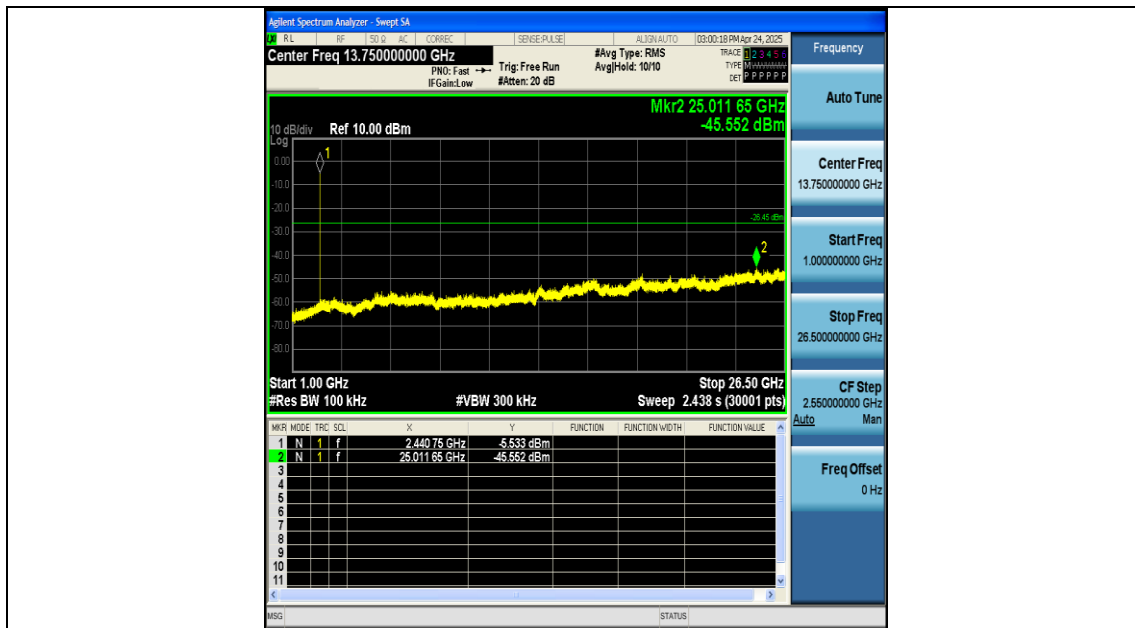
3DH5-Ant1-2402-1000~26500-PASS



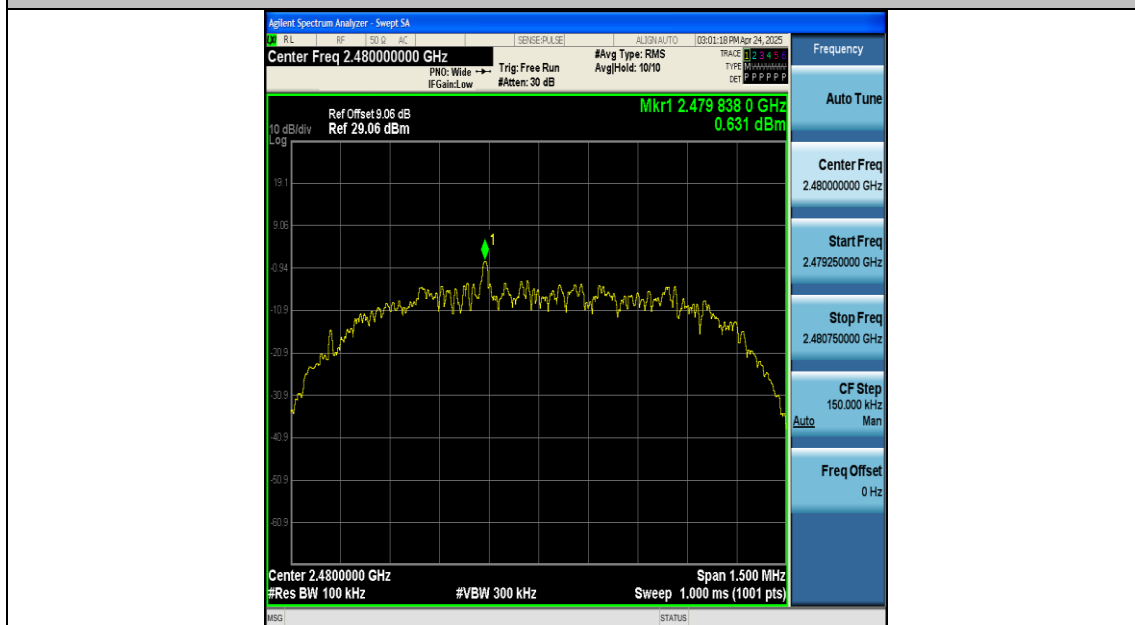
3DH5-Ant1-2441-0~Reference-PASS



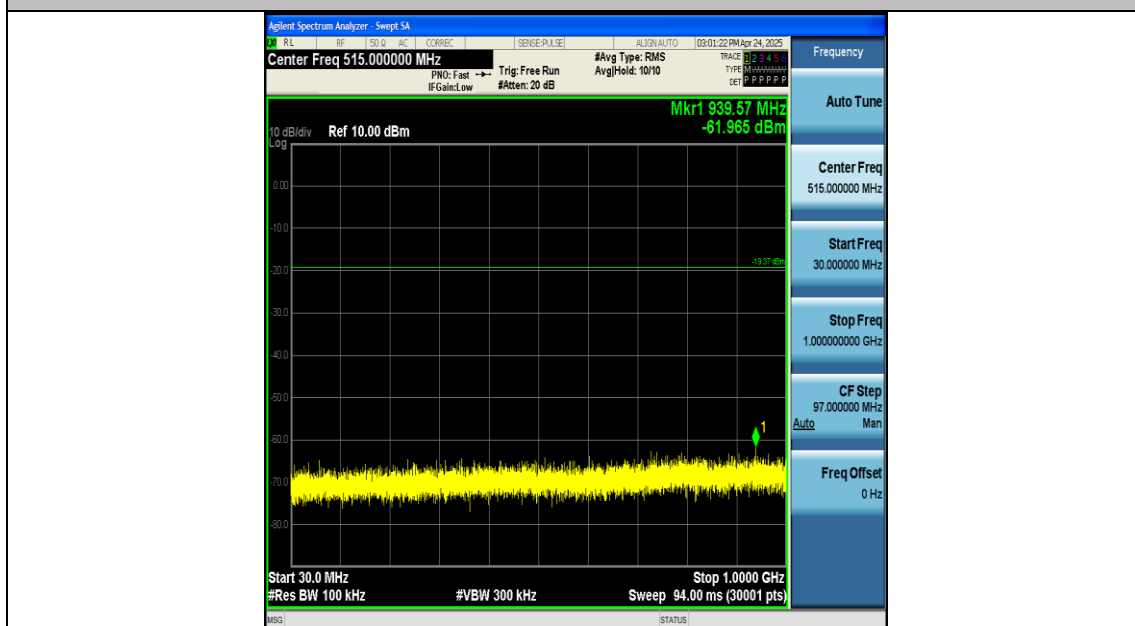
3DH5-Ant1-2441-30~1000-PASS



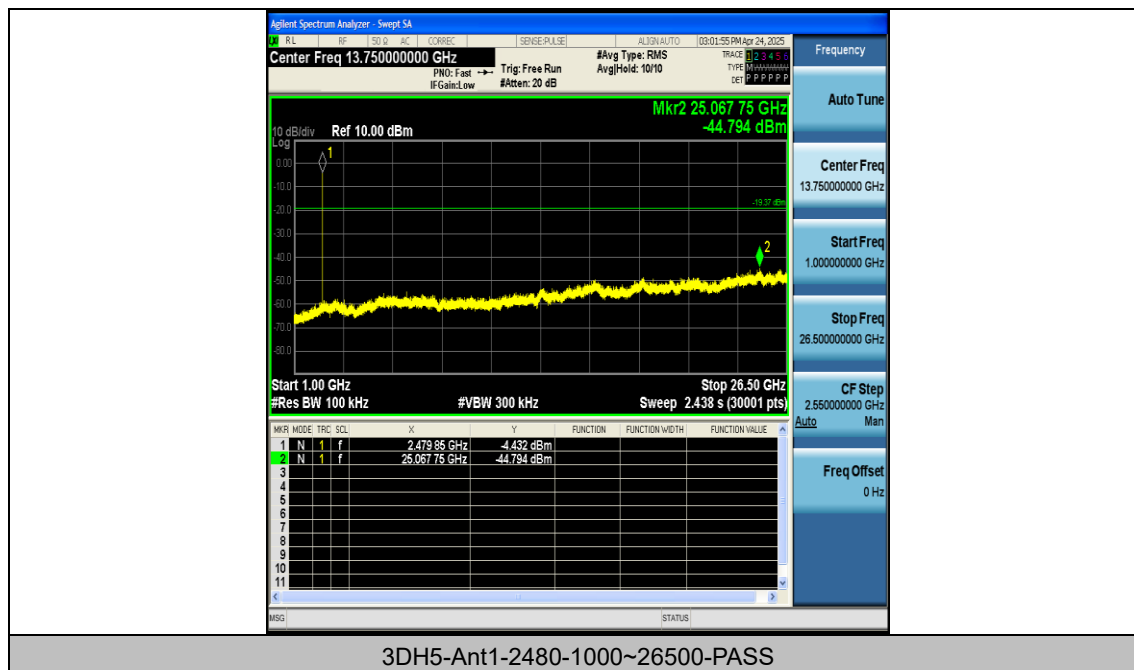
3DH5-Ant1-2441-1000~26500-PASS



3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS



Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
2DH5	Ant1	2441	2.88	3.75	76.80	1.15
2DH5	Ant1	2480	2.88	3.75	76.80	1.15
3DH5	Ant1	2402	2.88	3.75	76.80	1.15
3DH5	Ant1	2441	2.89	3.75	77.07	1.13
3DH5	Ant1	2480	2.89	3.76	76.86	1.14

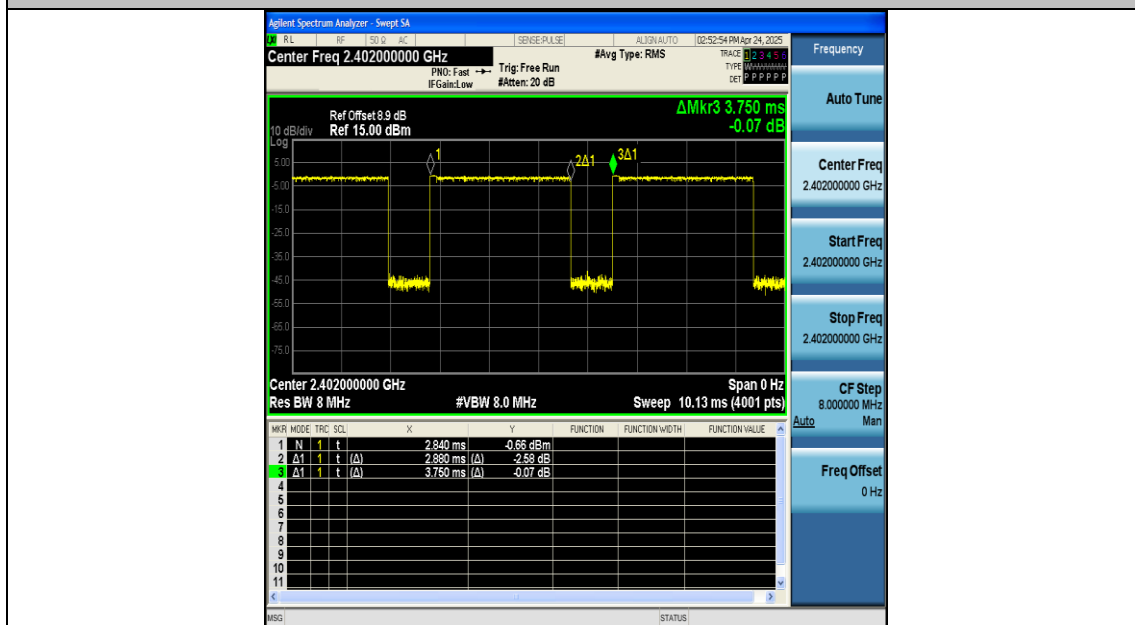
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

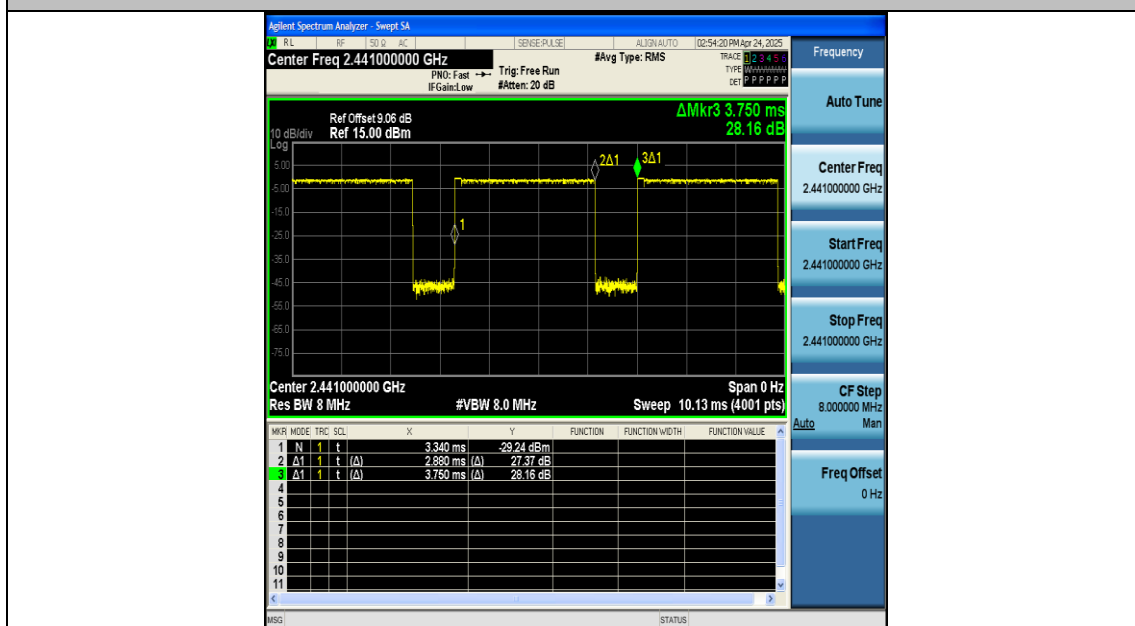




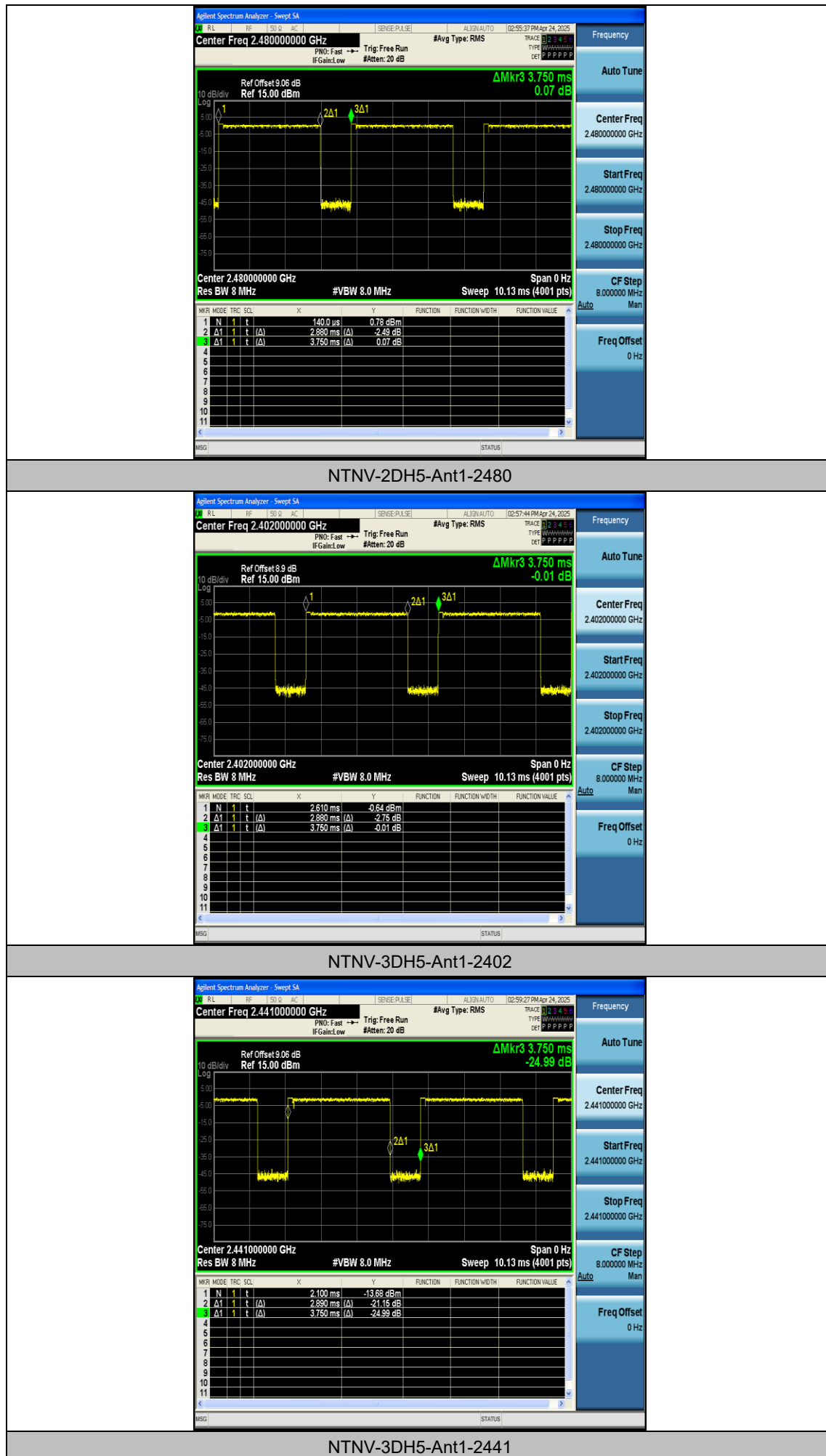
NTNV-DH5-Ant1-2480

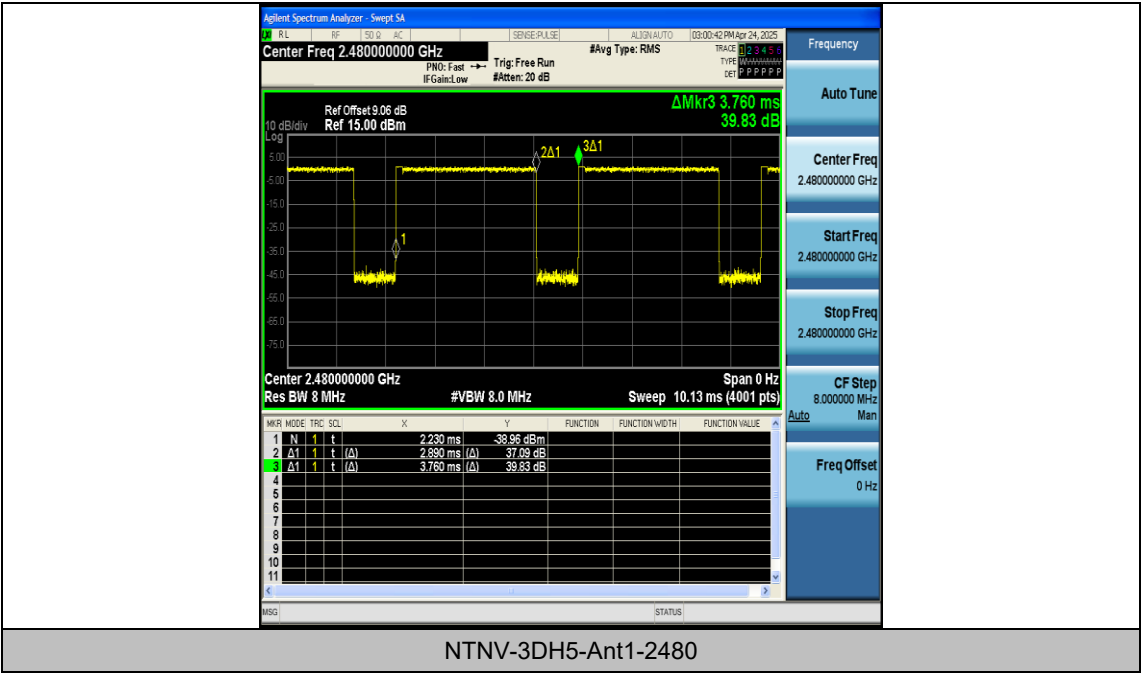


NTNV-2DH5-Ant1-2402



NTNV-2DH5-Ant1-2441





NTNV-3DH5-Ant1-2480