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

Product Name: Waterproof Bluetooth soundbar

Trade Mark: /

Test Model: PSB6

FCC ID: 2BTKR-PSB6

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	0.957	2401.574	2402.531	---	---
DH5	Ant1	2441	0.960	2440.571	2441.531	---	---
DH5	Ant1	2480	0.963	2479.571	2480.534	---	---
2DH5	Ant1	2402	1.311	2401.382	2402.693	---	---
2DH5	Ant1	2441	1.311	2440.382	2441.693	---	---
2DH5	Ant1	2480	1.320	2479.382	2480.702	---	---
3DH5	Ant1	2402	1.290	2401.391	2402.681	---	---
3DH5	Ant1	2441	1.347	2440.364	2441.711	---	---
3DH5	Ant1	2480	1.314	2479.388	2480.702	---	---

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

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

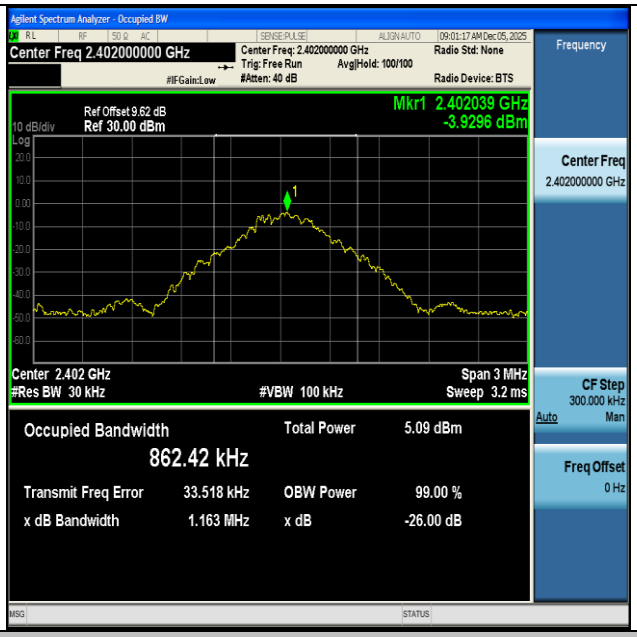
Appendix B: Occupied Channel Bandwidth

Test Result

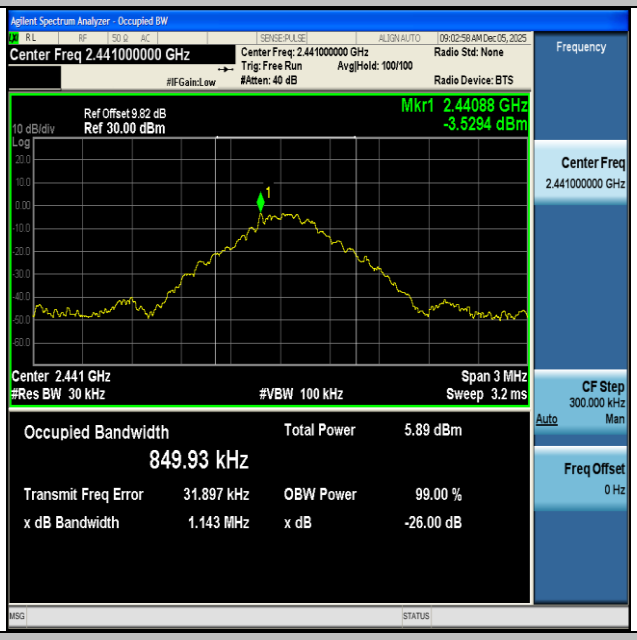
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.86242	2401.6023	2402.4647	---	---
DH5	Ant1	2441	0.84993	2440.6069	2441.4569	---	---
DH5	Ant1	2480	0.86832	2479.6029	2480.4712	---	---
2DH5	Ant1	2402	1.1933	2401.4398	2402.6331	---	---
2DH5	Ant1	2441	1.1976	2440.4424	2441.6400	---	---
2DH5	Ant1	2480	1.1818	2479.4472	2480.6290	---	---
3DH5	Ant1	2402	1.1989	2401.4365	2402.6354	---	---
3DH5	Ant1	2441	1.1814	2440.4537	2441.6351	---	---
3DH5	Ant1	2480	1.1944	2479.4397	2480.6341	---	---

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

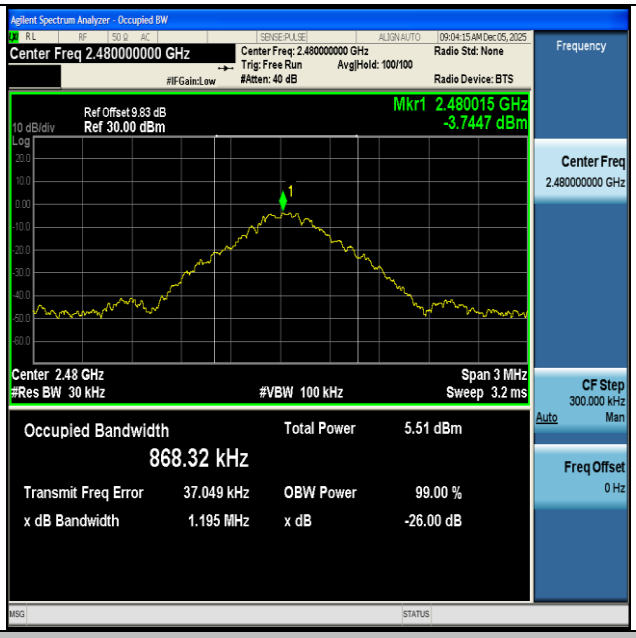
Test Graphs



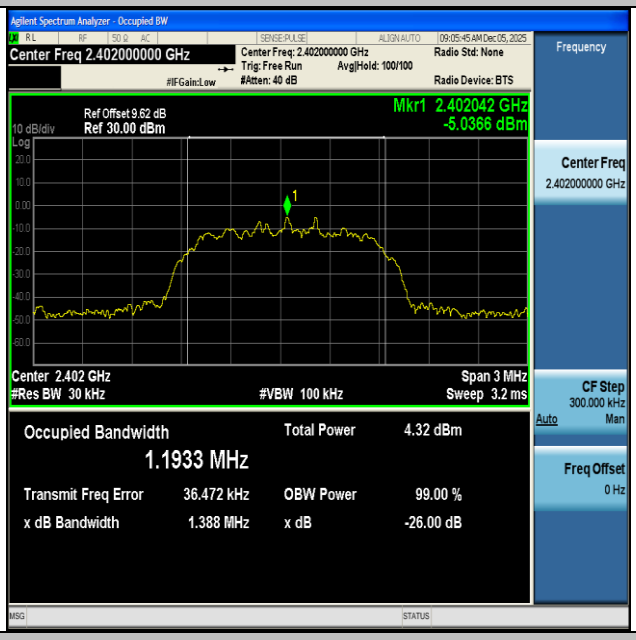
DH5-Ant1-2402



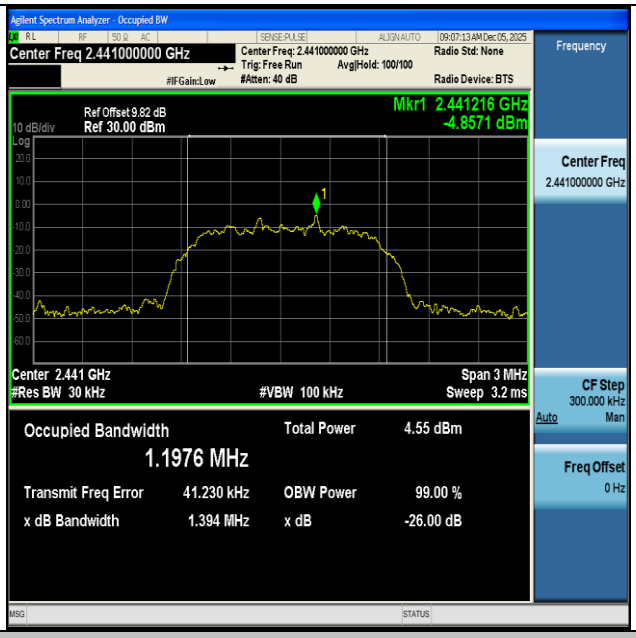
DH5-Ant1-2441



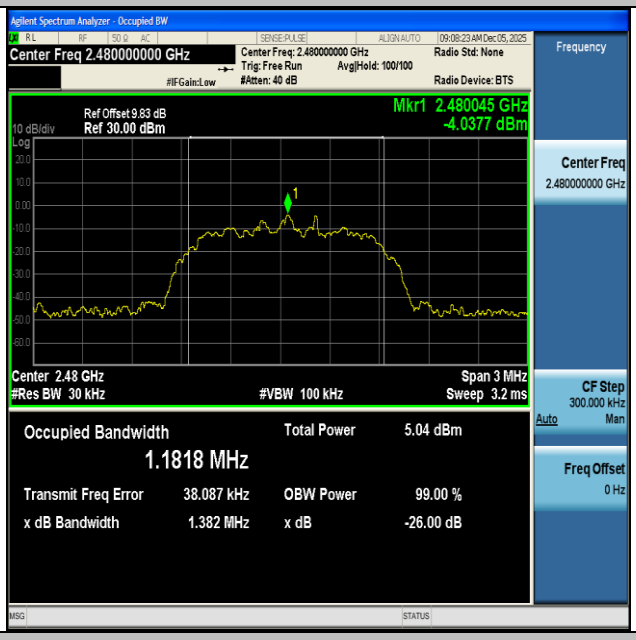
DH5-Ant1-2480



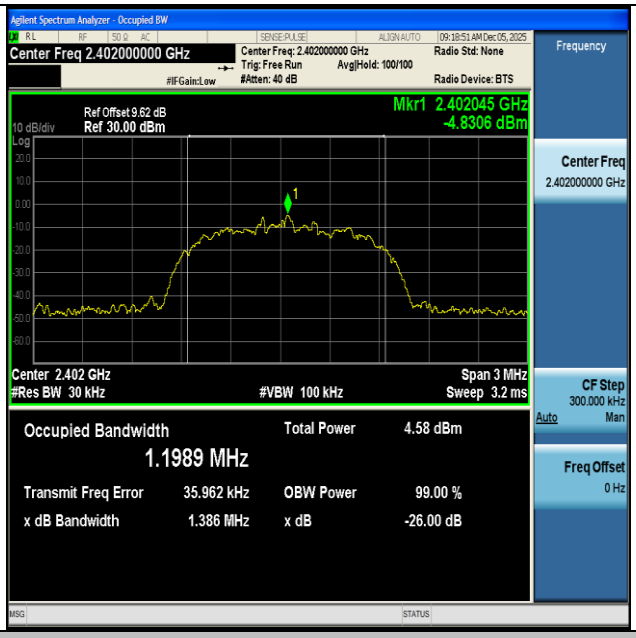
2DH5-Ant1-2402



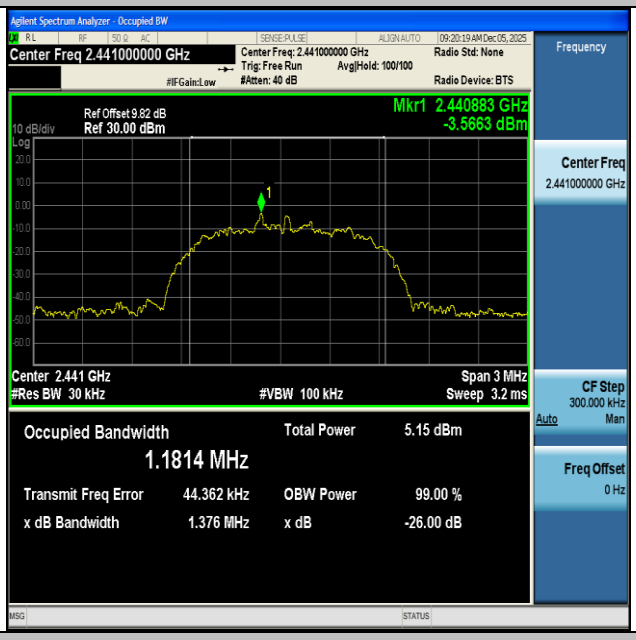
2DH5-Ant1-2441



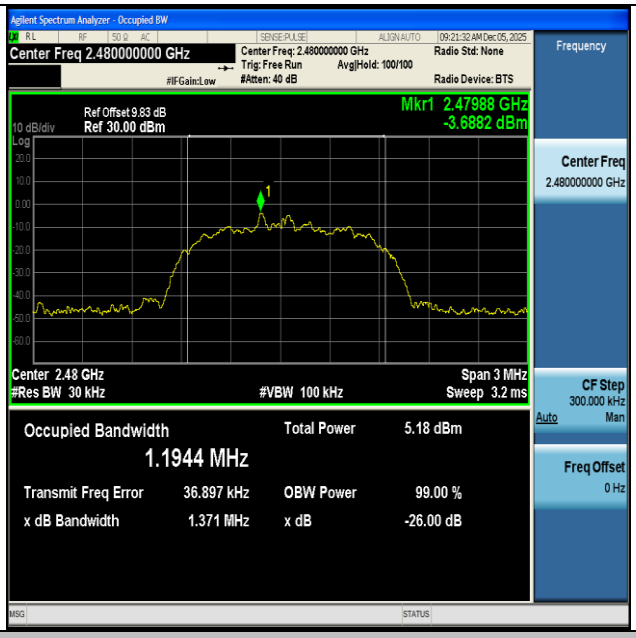
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

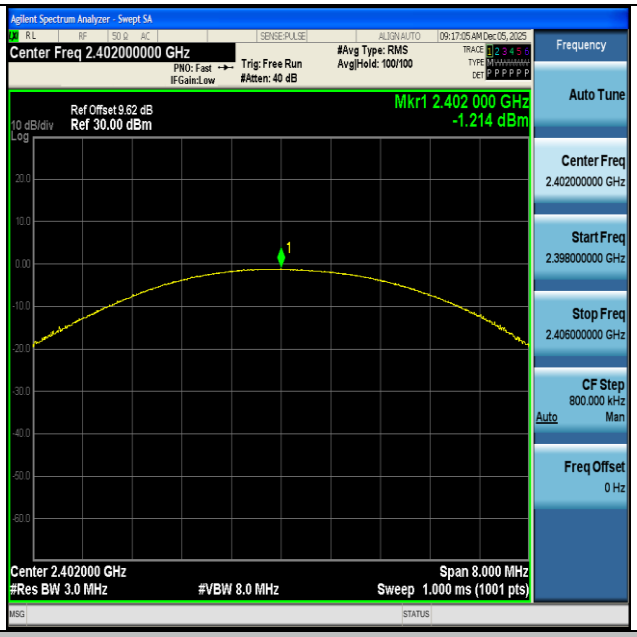
Appendix C: Maximum peak conducted output power

Test Result

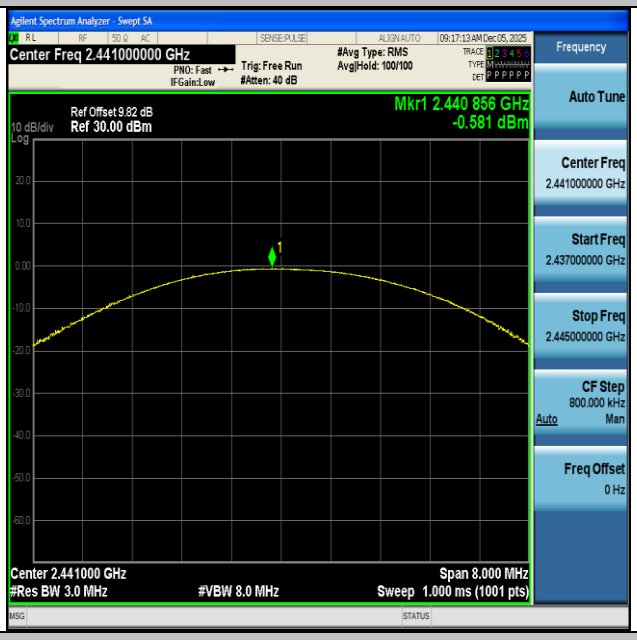
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
DH5	Ant1	2402	-1.21	≤30	PASS
DH5	Ant1	2441	-0.58	≤30	PASS
DH5	Ant1	2480	-0.75	≤30	PASS
2DH5	Ant1	2402	-0.55	≤20.97	PASS
2DH5	Ant1	2441	0.10	≤20.97	PASS
2DH5	Ant1	2480	-0.10	≤20.97	PASS
3DH5	Ant1	2402	-0.15	≤20.97	PASS
3DH5	Ant1	2441	0.48	≤20.97	PASS
3DH5	Ant1	2480	0.21	≤20.97	PASS

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

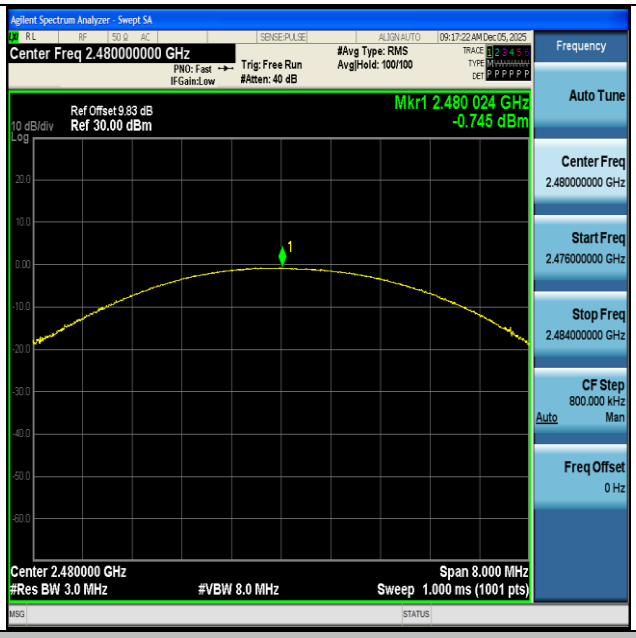
Test Graphs



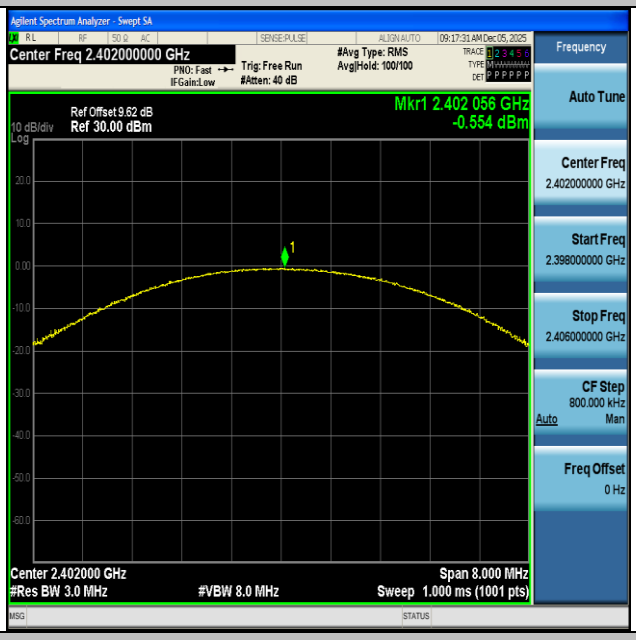
DH5-Ant1-2402-PASS



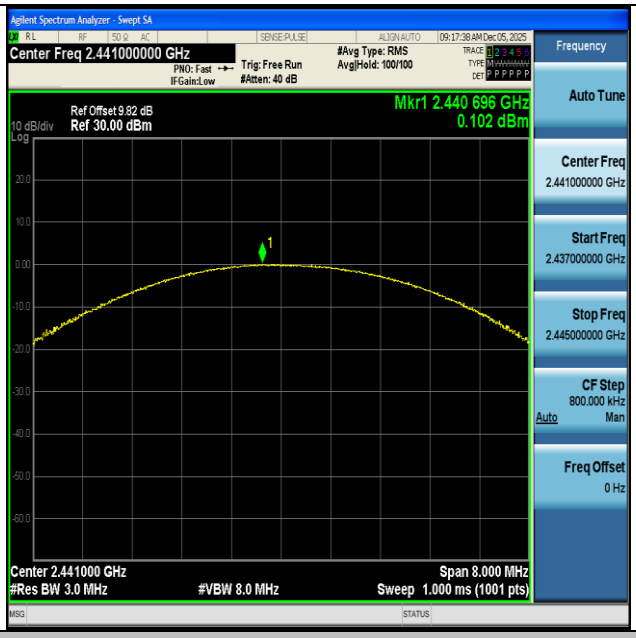
DH5-Ant1-2441-PASS



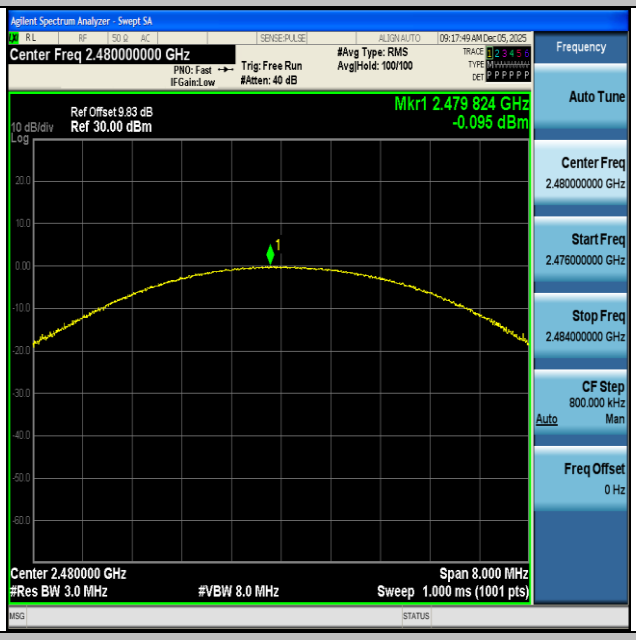
DH5-Ant1-2480-PASS



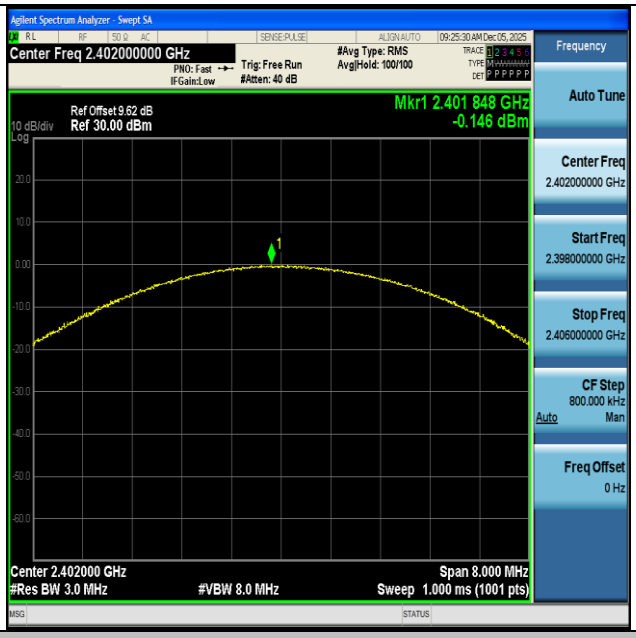
2DH5-Ant1-2402-PASS



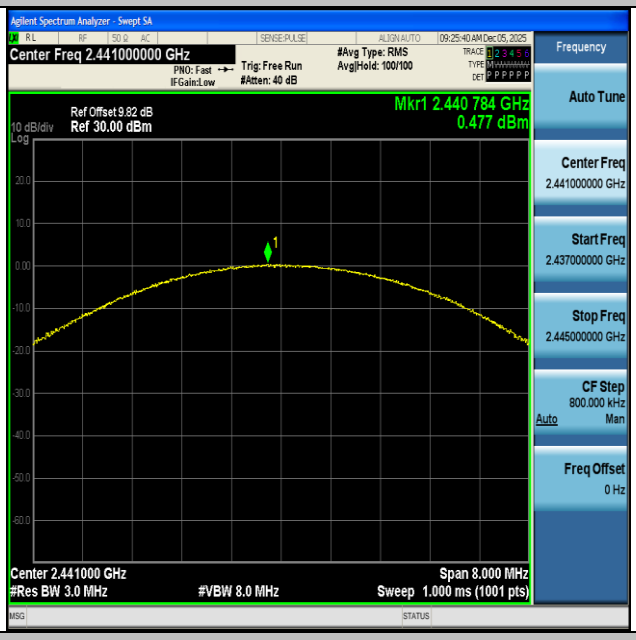
2DH5-Ant1-2441-PASS



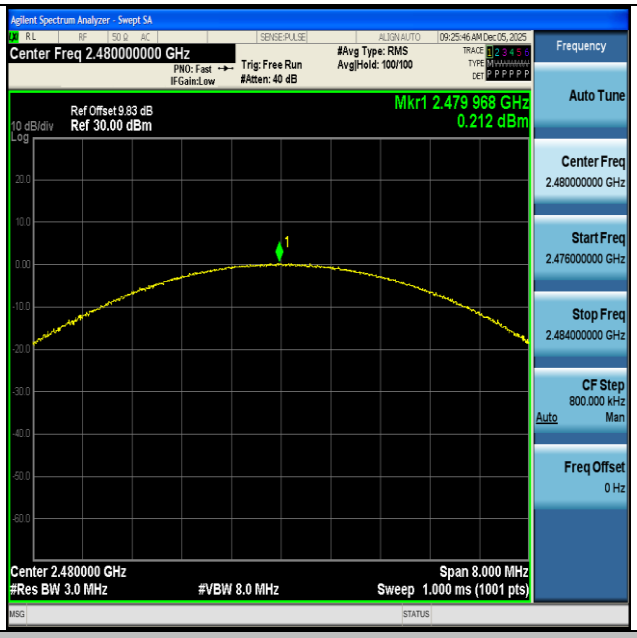
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS

Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.986	≥0.963	PASS
2DH5	Ant1	Hop	0.956	≥0.880	PASS
3DH5	Ant1	Hop	1.002	≥0.898	PASS

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

Test Graphs

DH5-Ant1-Hop-PASS

2DH5-Ant1-Hop-PASS

3DH5-Ant1-Hop-PASS

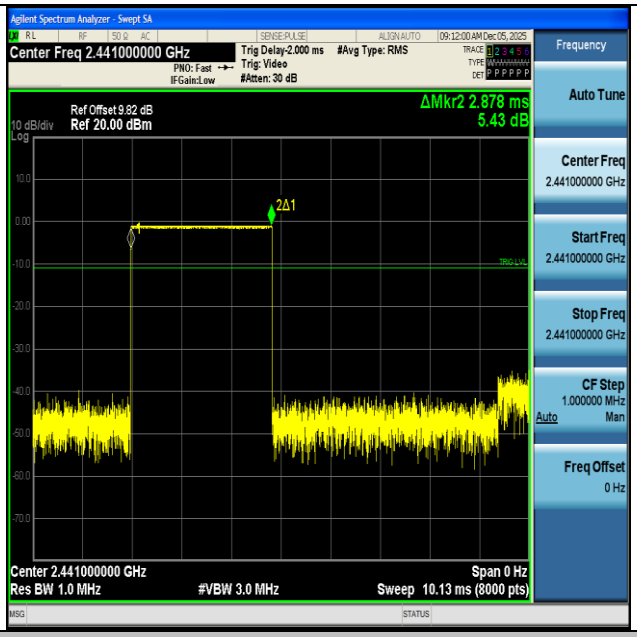
Appendix E: Time of occupancy

Test Result

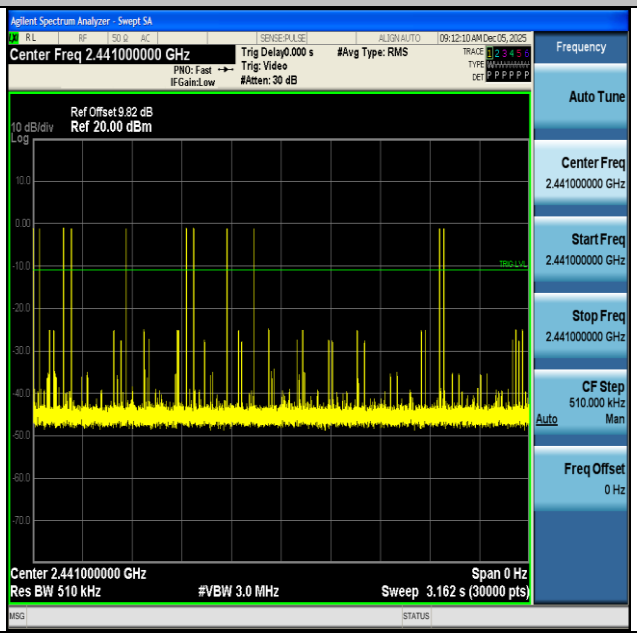
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.878	110	0.317	≤0.4	PASS
2DH5	Ant1	Hop	2.884	100	0.288	≤0.4	PASS
3DH5	Ant1	Hop	2.887	100	0.289	≤0.4	PASS

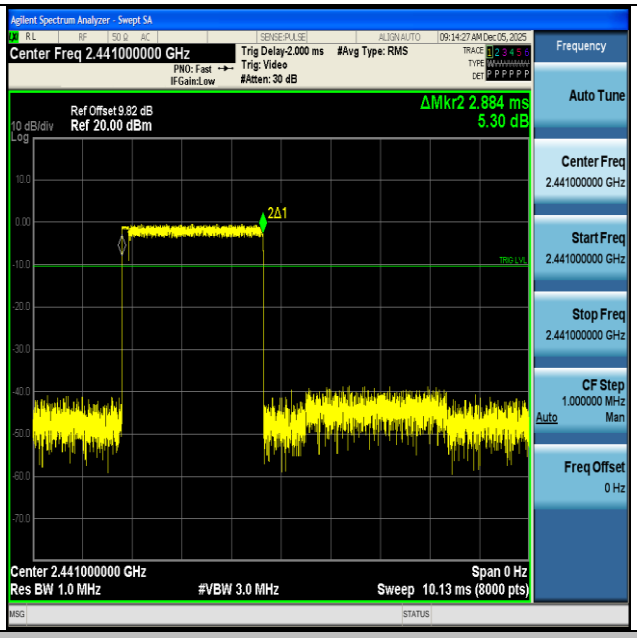
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

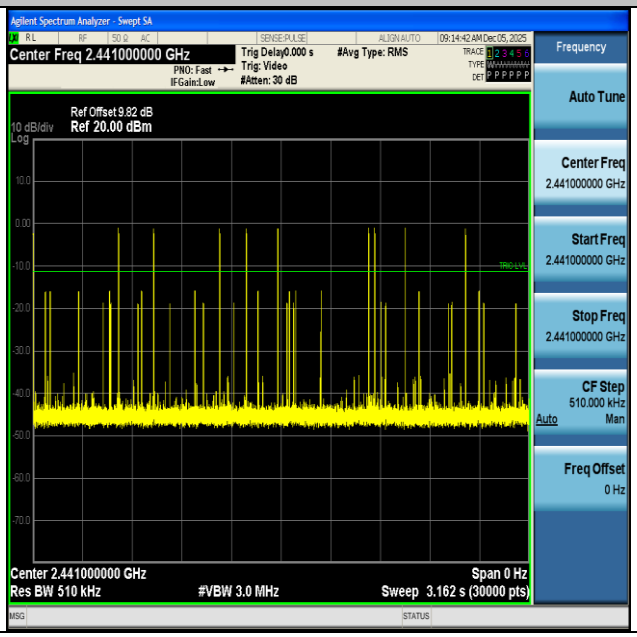


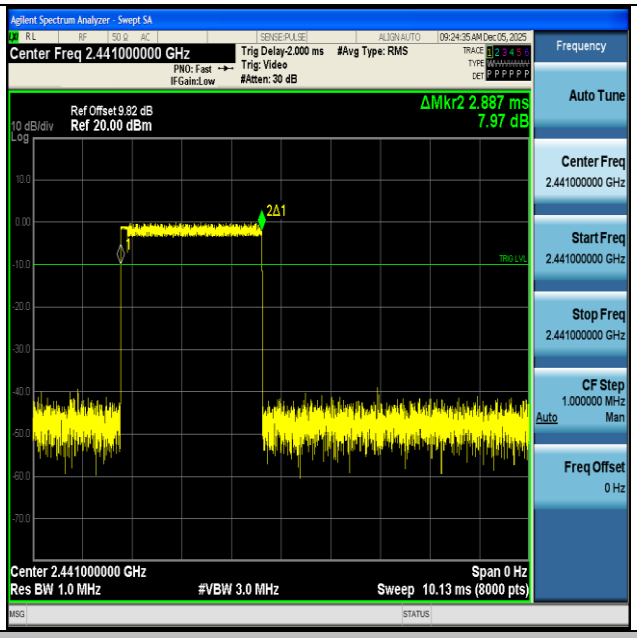
DH5-Ant1-Hop-PASS



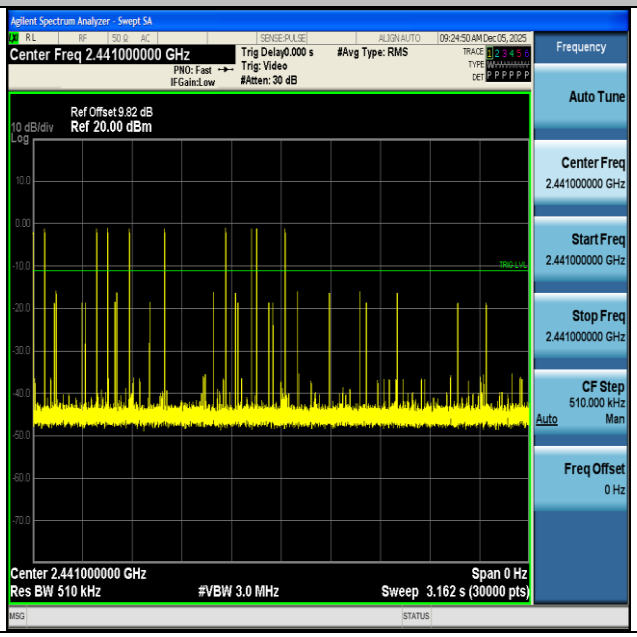


2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS



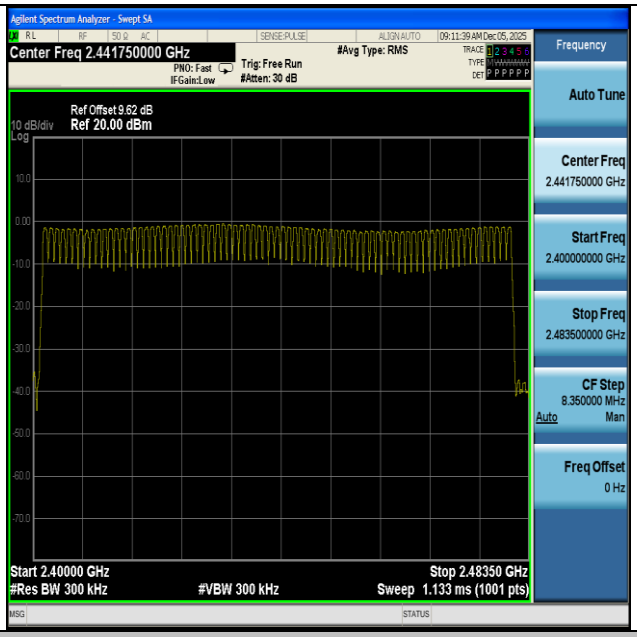
Appendix F: Number of hopping channels

Test Result

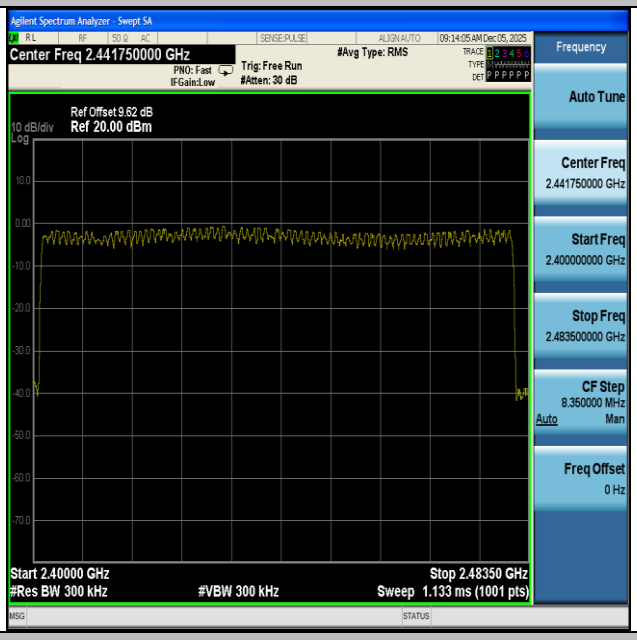
Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

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

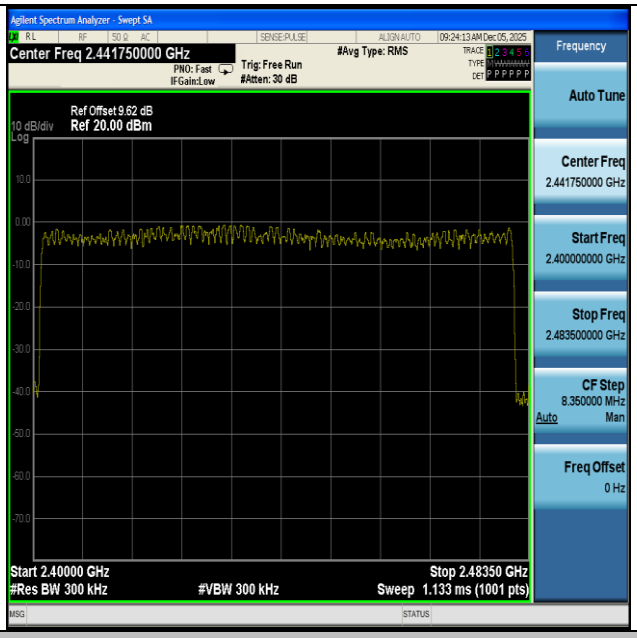
Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS

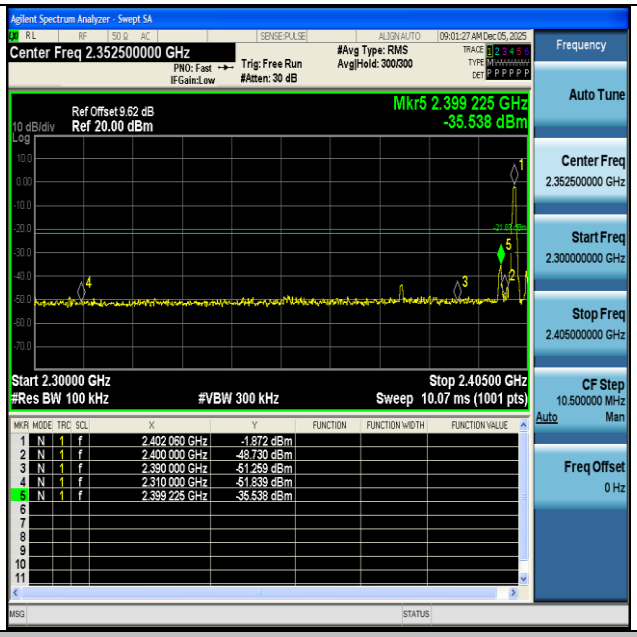
Appendix G: Band edge measurements

Test Result

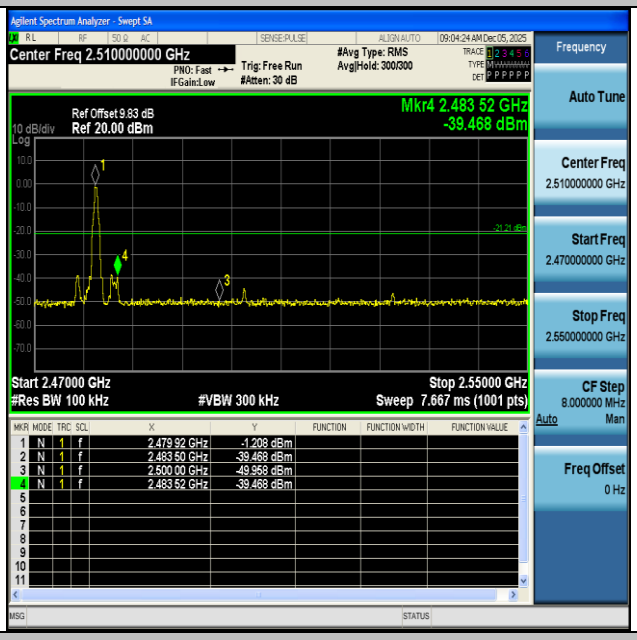
Test Mode	Antenna	Ch.Name	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.87	-35.54	≤-21.87	PASS
DH5	Ant1	High	2480	-1.21	-39.47	≤-21.21	PASS
DH5	Ant1	Low	Hop_2402	-3.13	-38.64	≤-23.13	PASS
DH5	Ant1	High	Hop_2480	-1.55	-43.59	≤-21.55	PASS
2DH5	Ant1	Low	2402	-1.92	-35.95	≤-21.92	PASS
2DH5	Ant1	High	2480	-1.46	-44.15	≤-21.46	PASS
2DH5	Ant1	Low	Hop_2402	-4.70	-45.36	≤-24.7	PASS
2DH5	Ant1	High	Hop_2480	-2.23	-45.23	≤-22.23	PASS
3DH5	Ant1	Low	2402	-2.04	-36.04	≤-22.04	PASS
3DH5	Ant1	High	2480	-1.36	-42.03	≤-21.36	PASS
3DH5	Ant1	Low	Hop_2402	-5.05	-44.38	≤-25.05	PASS
3DH5	Ant1	High	Hop_2480	-2.39	-45.62	≤-22.39	PASS

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

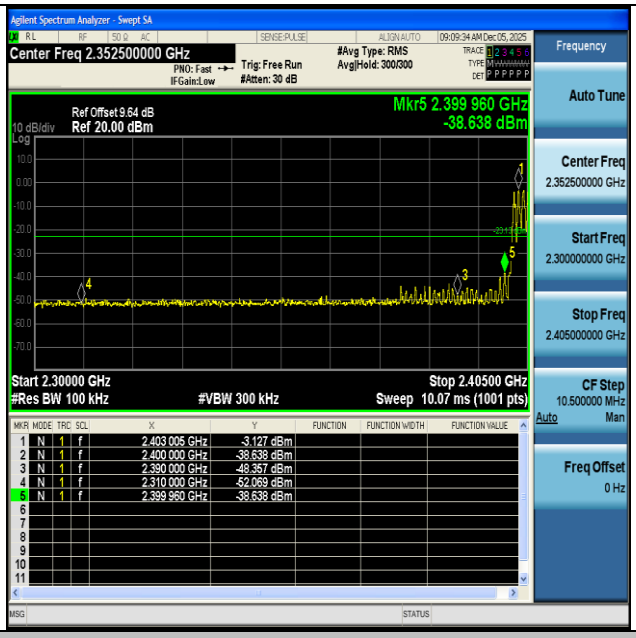
Test Graphs



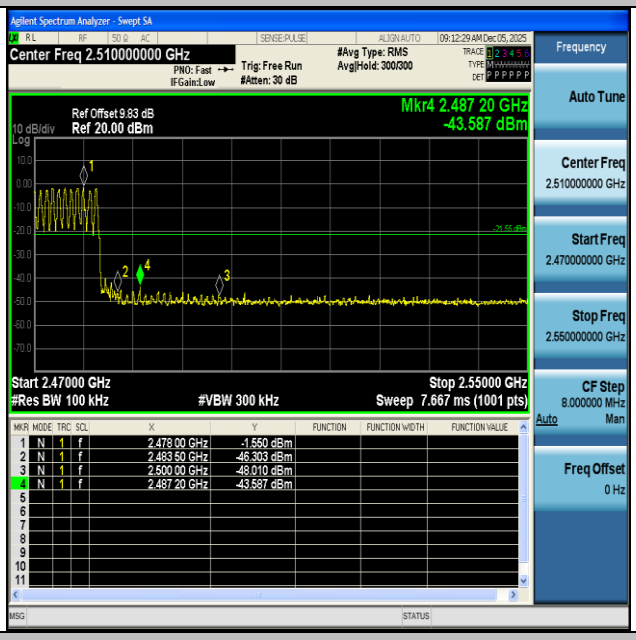
DH5-Ant1-2402-PASS



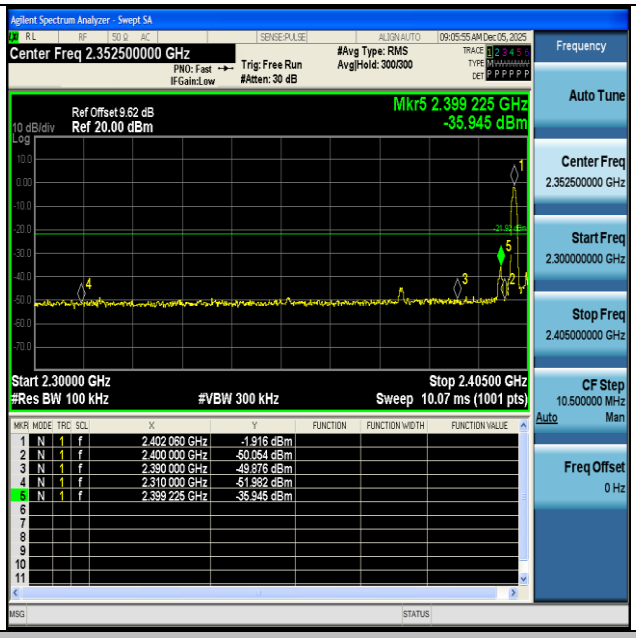
DH5-Ant1-2480-PASS



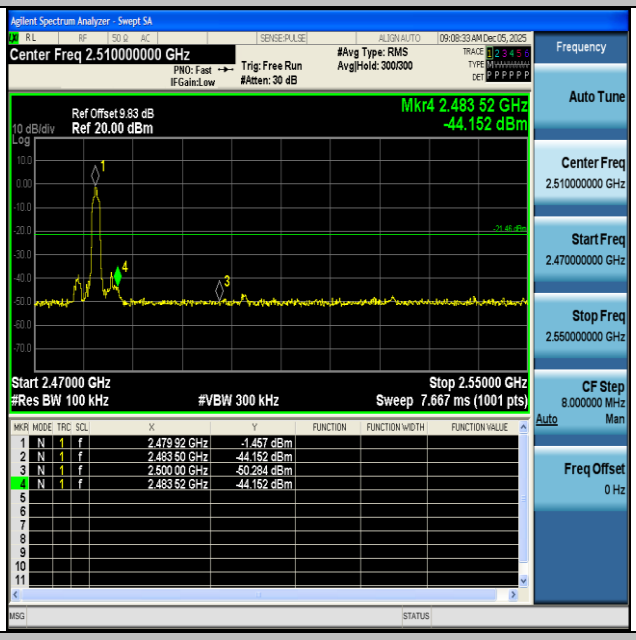
DH5-Ant1-Hop_2402-PASS



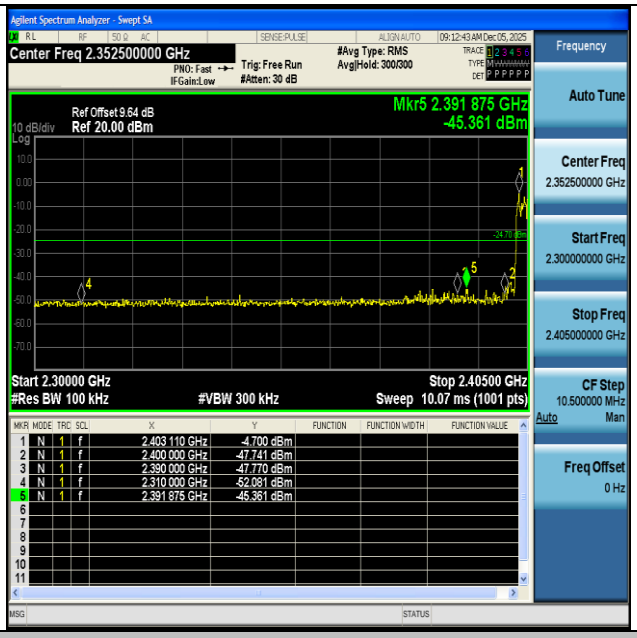
DH5-Ant1-Hop_2480-PASS



2DH5-Ant1-2402-PASS

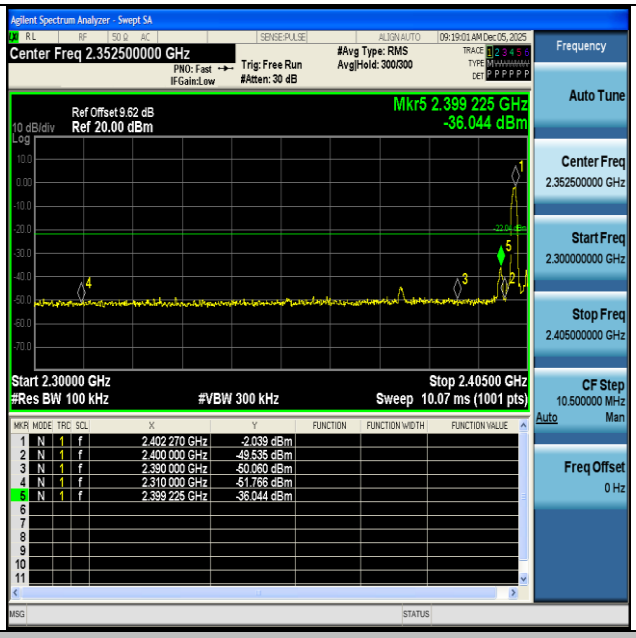


2DH5-Ant1-2480-PASS

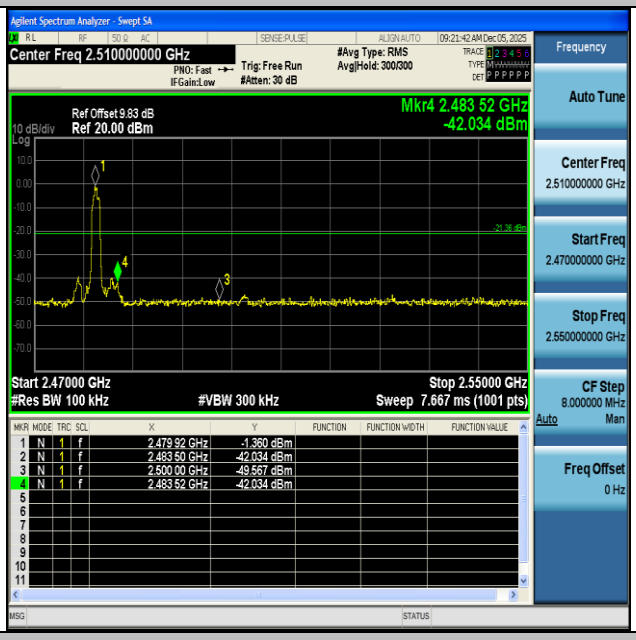


2DH5-Ant1-Hop_2402-PASS

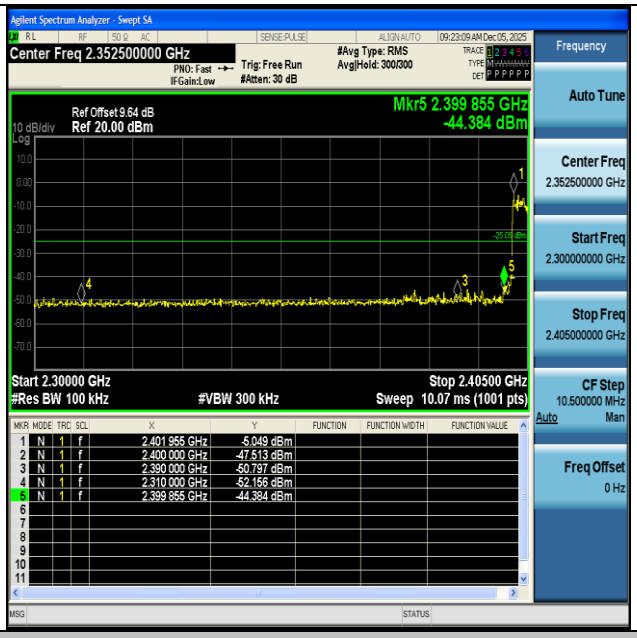
2DH5-Ant1-Hop_2480-PASS



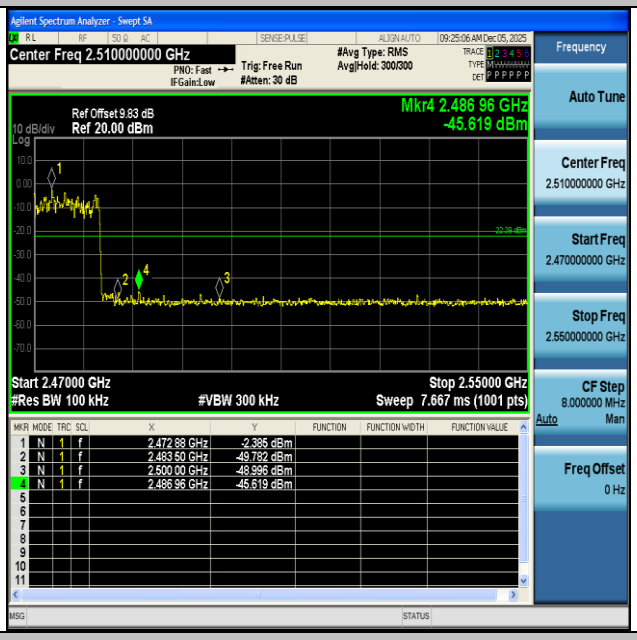
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS

Appendix H: Conducted Spurious Emission

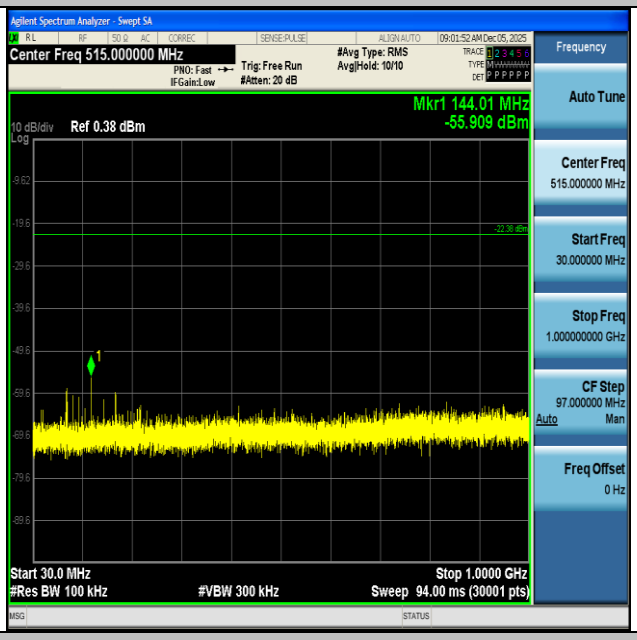
Test Result

Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-2.38	-2.38	---	PASS
DH5	Ant1	2402	30~1000	-2.38	-55.91	≤-22.38	PASS
DH5	Ant1	2402	1000~26500	-2.38	-37.42	≤-22.38	PASS
DH5	Ant1	2441	0~Reference	-1.85	-1.85	---	PASS
DH5	Ant1	2441	30~1000	-1.85	-55.52	≤-21.85	PASS
DH5	Ant1	2441	1000~26500	-1.85	-37.16	≤-21.85	PASS
DH5	Ant1	2480	0~Reference	-1.99	-1.99	---	PASS
DH5	Ant1	2480	30~1000	-1.99	-56.08	≤-21.99	PASS
DH5	Ant1	2480	1000~26500	-1.99	-37.12	≤-21.99	PASS
2DH5	Ant1	2402	0~Reference	-2.08	-2.08	---	PASS
2DH5	Ant1	2402	30~1000	-2.08	-56.62	≤-22.08	PASS
2DH5	Ant1	2402	1000~26500	-2.08	-36.55	≤-22.08	PASS
2DH5	Ant1	2441	0~Reference	-5.07	-5.07	---	PASS
2DH5	Ant1	2441	30~1000	-5.07	-54.06	≤-25.07	PASS
2DH5	Ant1	2441	1000~26500	-5.07	-36.65	≤-25.07	PASS
2DH5	Ant1	2480	0~Reference	-1.28	-1.28	---	PASS
2DH5	Ant1	2480	30~1000	-1.28	-55.01	≤-21.28	PASS
2DH5	Ant1	2480	1000~26500	-1.28	-37.32	≤-21.28	PASS
3DH5	Ant1	2402	0~Reference	-2.06	-2.06	---	PASS
3DH5	Ant1	2402	30~1000	-2.06	-56.13	≤-22.06	PASS
3DH5	Ant1	2402	1000~26500	-2.06	-37.66	≤-22.06	PASS
3DH5	Ant1	2441	0~Reference	-2.33	-2.33	---	PASS
3DH5	Ant1	2441	30~1000	-2.33	-55.82	≤-22.33	PASS
3DH5	Ant1	2441	1000~26500	-2.33	-37.31	≤-22.33	PASS
3DH5	Ant1	2480	0~Reference	-1.71	-1.71	---	PASS
3DH5	Ant1	2480	30~1000	-1.71	-55.92	≤-21.71	PASS
3DH5	Ant1	2480	1000~26500	-1.71	-37.03	≤-21.71	PASS

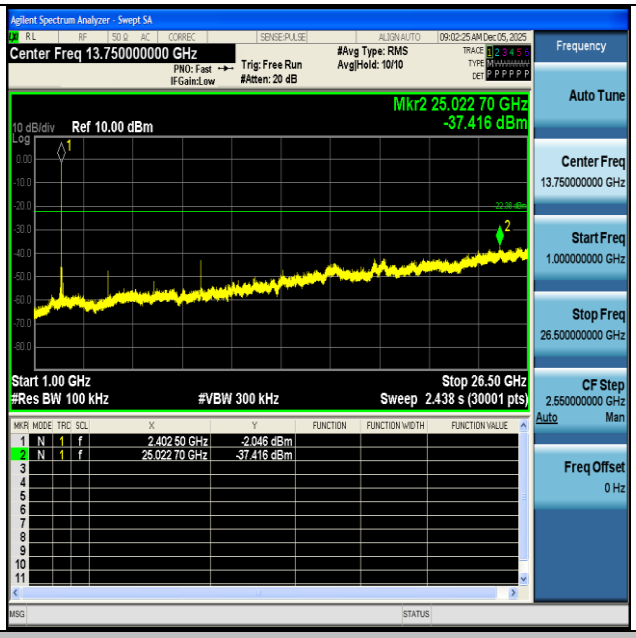
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

Test Graphs

DH5-Ant1-2402-0~Reference-PASS

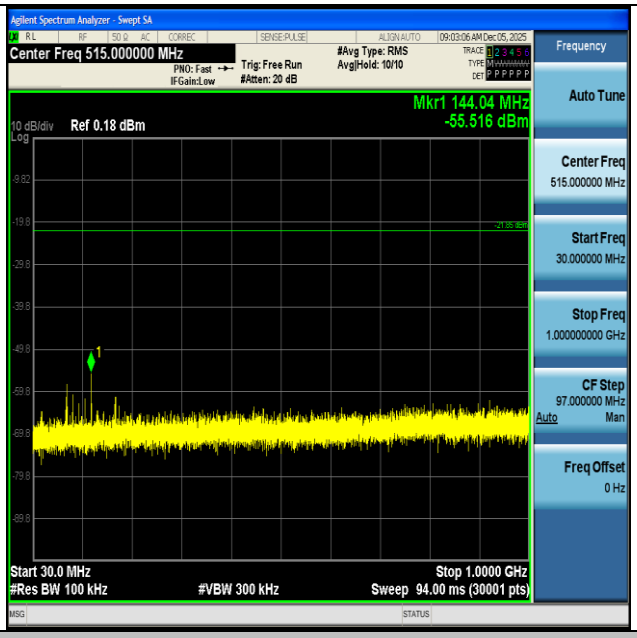


DH5-Ant1-2402-30~1000-PASS

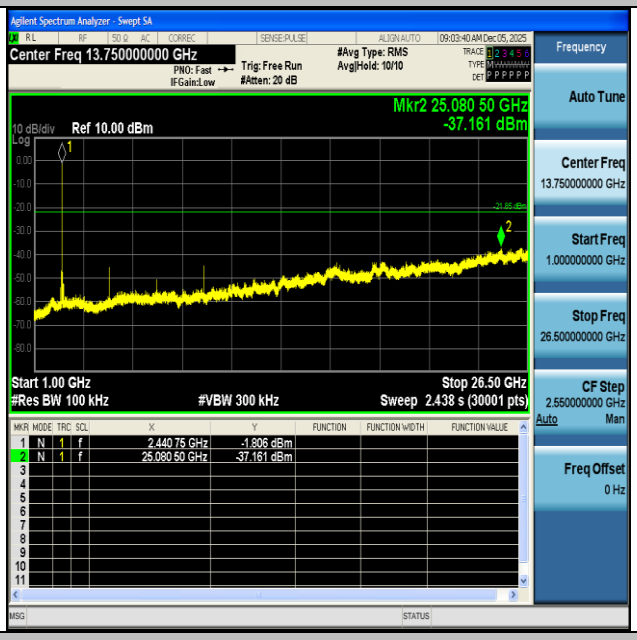


DH5-Ant1-2402-1000~26500-PASS

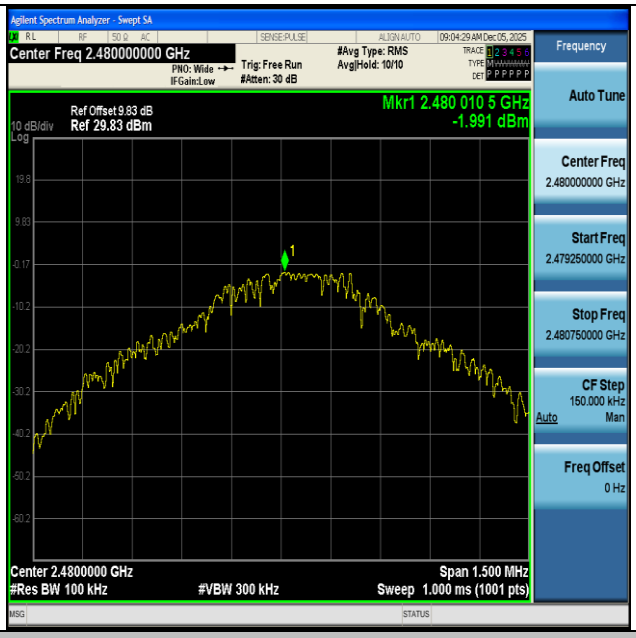
DH5-Ant1-2441-0~Reference-PASS



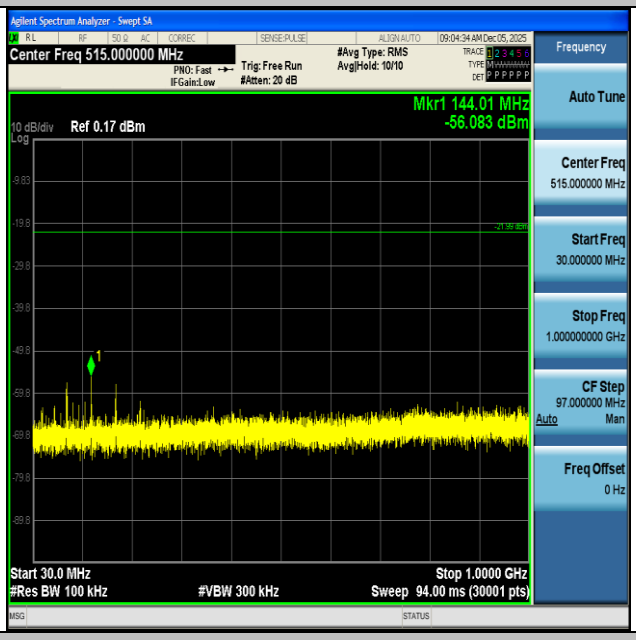
DH5-Ant1-2441-30~1000-PASS



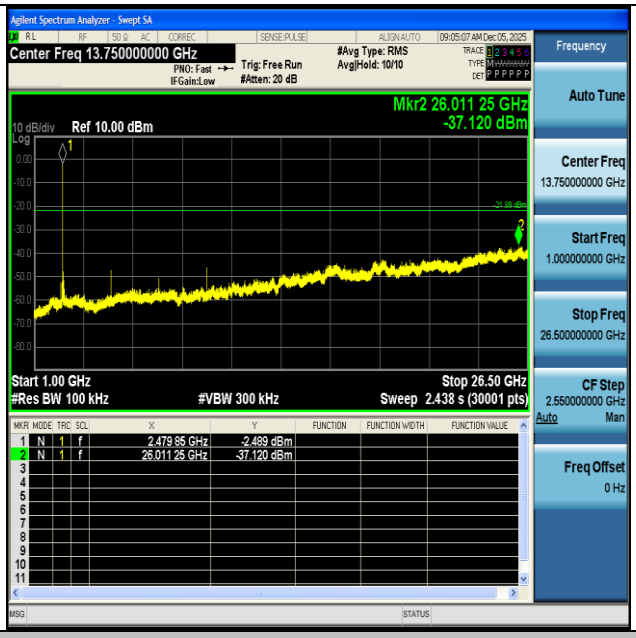
DH5-Ant1-2441-1000~26500-PASS



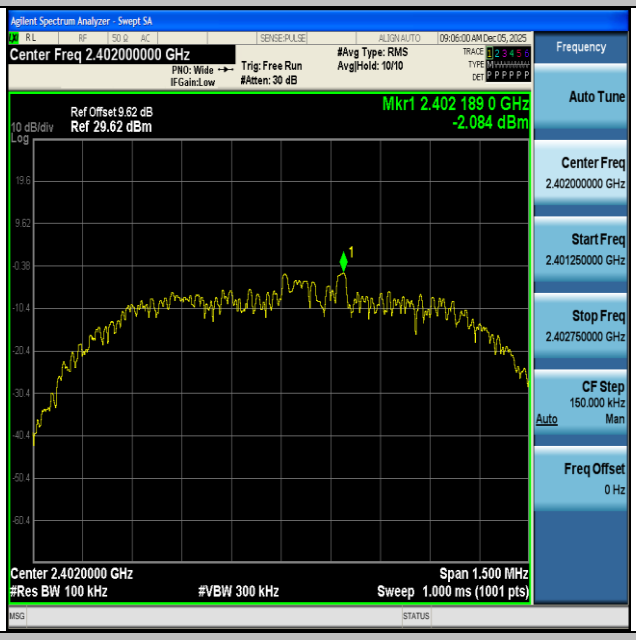
DH5-Ant1-2480-0~Reference-PASS



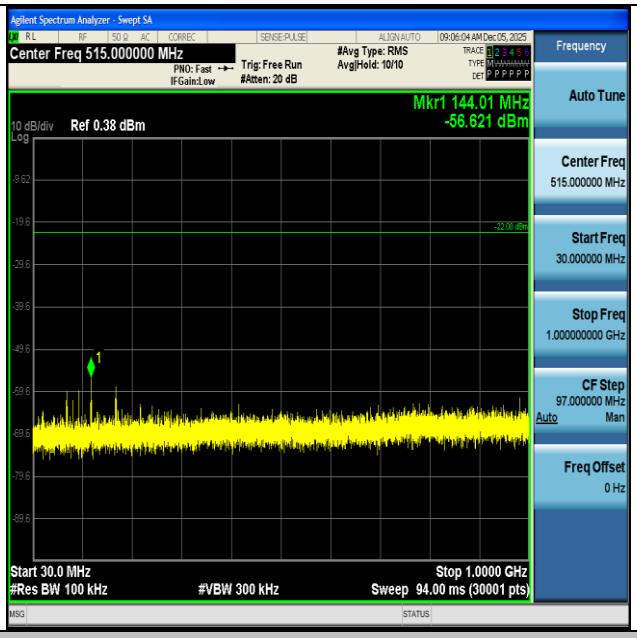
DH5-Ant1-2480-30~1000-PASS



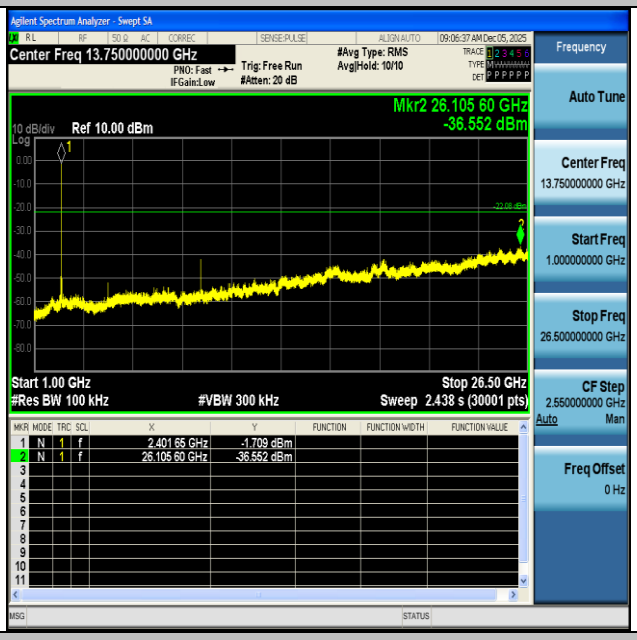
DH5-Ant1-2480-1000~26500-PASS



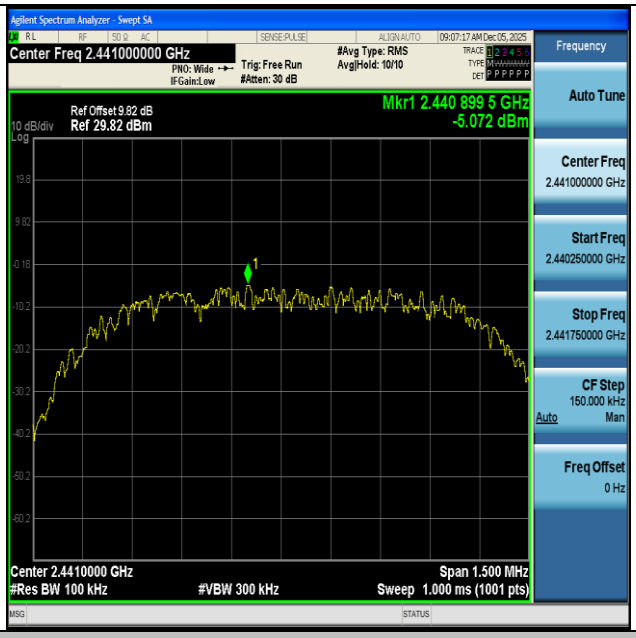
2DH5-Ant1-2402-0~Reference-PASS



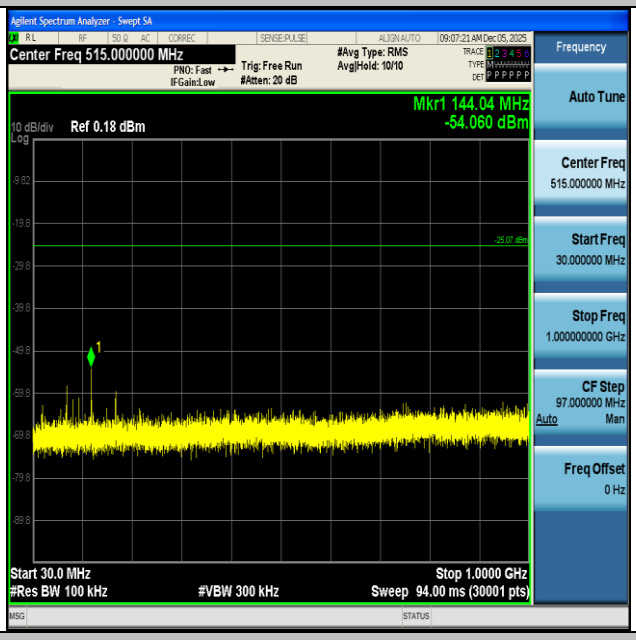
2DH5-Ant1-2402-30~1000-PASS



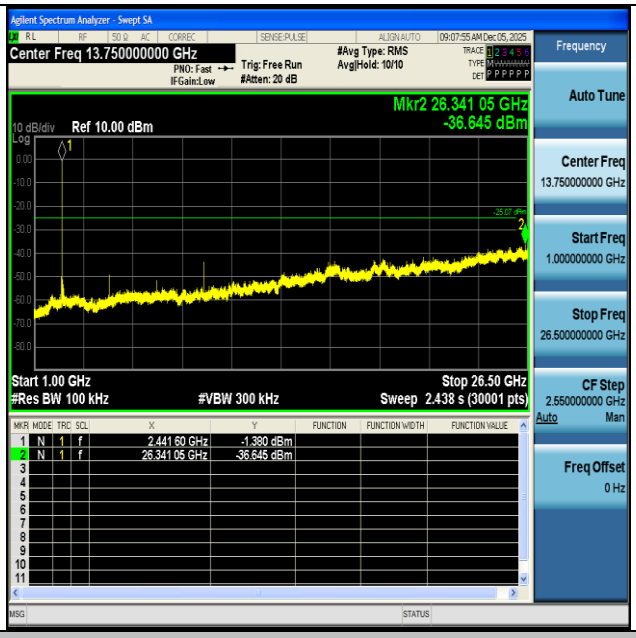
2DH5-Ant1-2402-1000~26500-PASS



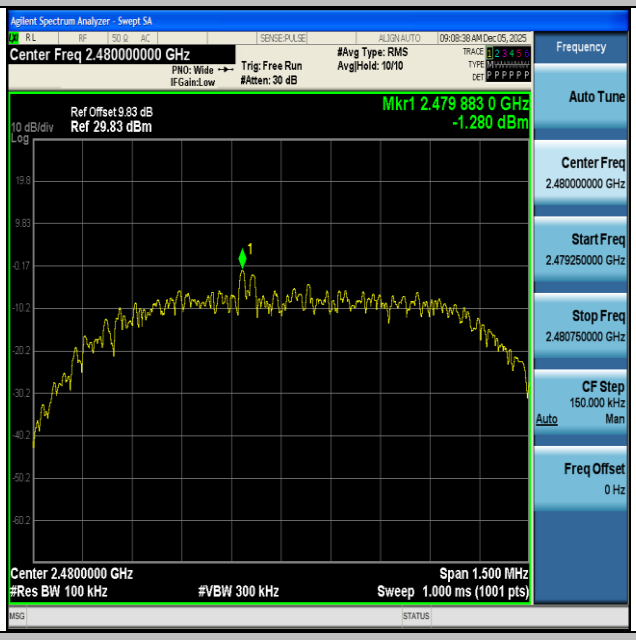
2DH5-Ant1-2441-0~Reference-PASS



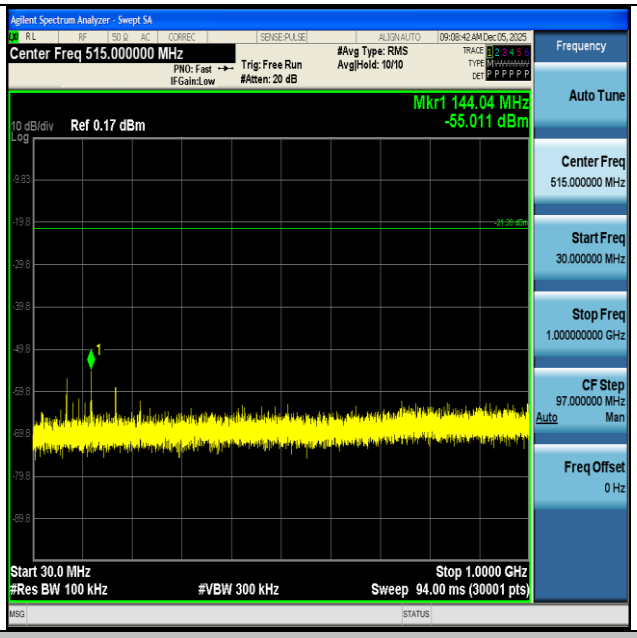
2DH5-Ant1-2441-30~1000-PASS



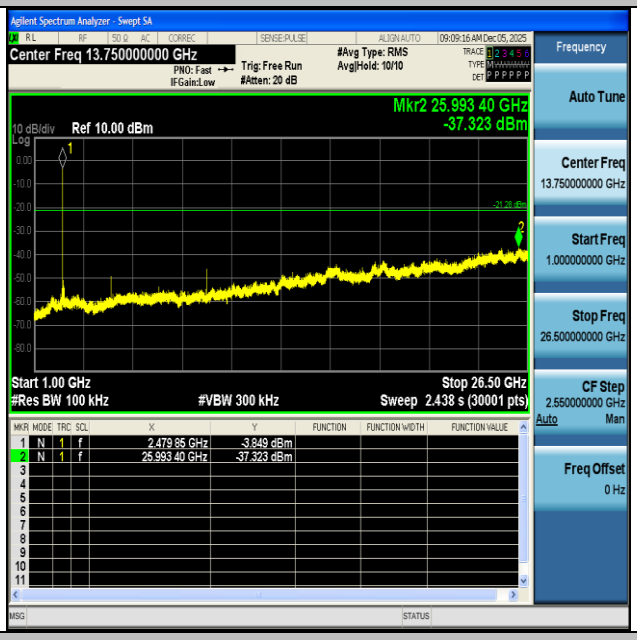
2DH5-Ant1-2441-1000~26500-PASS



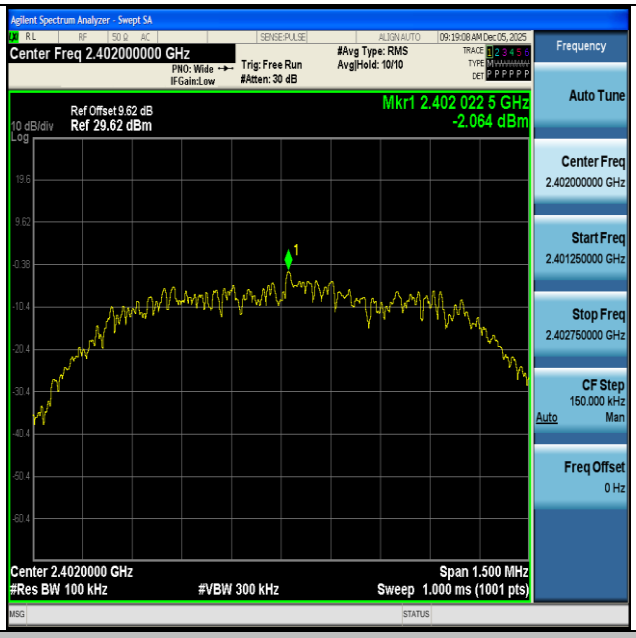
2DH5-Ant1-2480-0~Reference-PASS



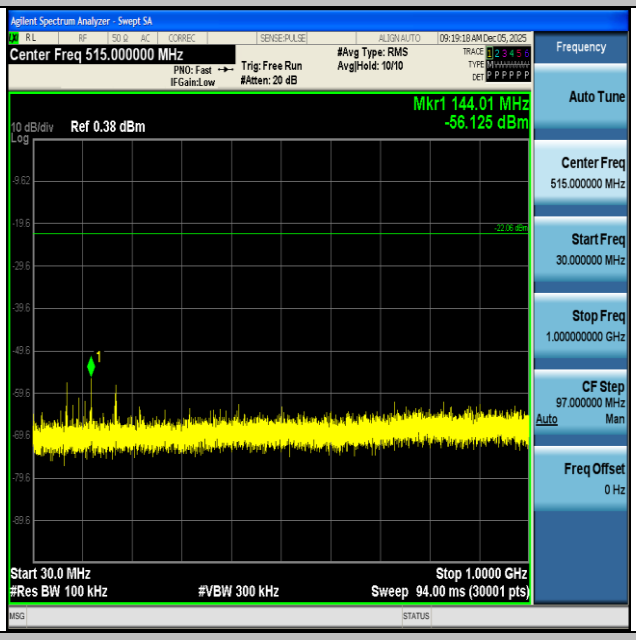
2DH5-Ant1-2480-30~1000-PASS



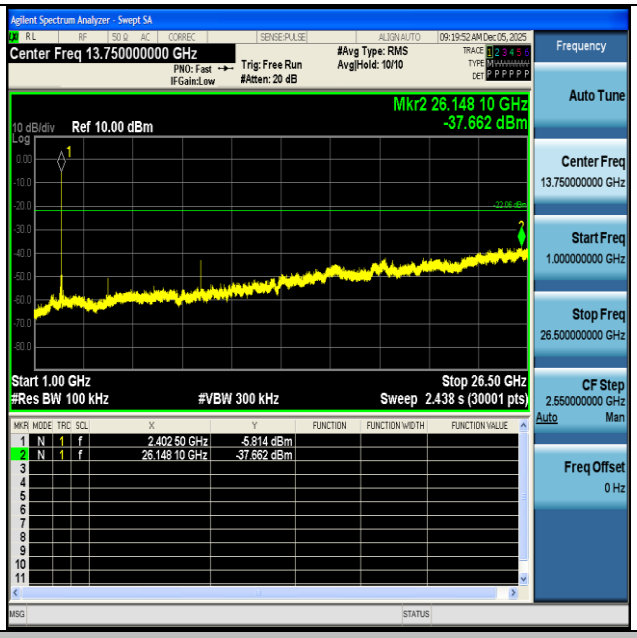
2DH5-Ant1-2480-1000~26500-PASS



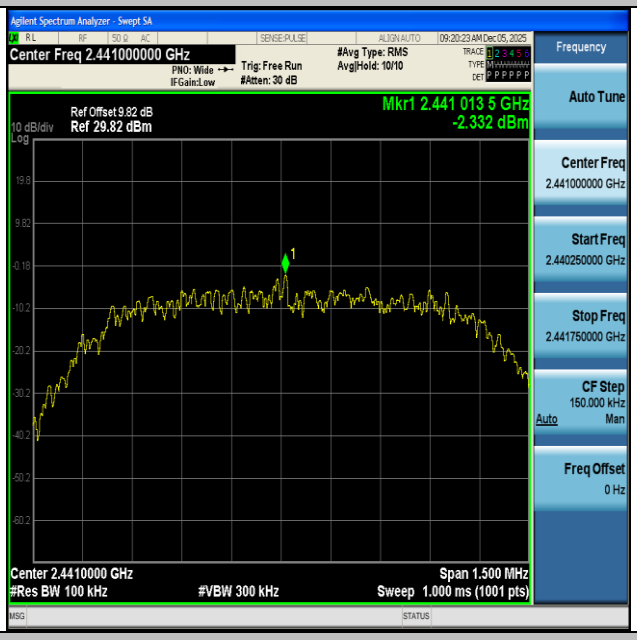
3DH5-Ant1-2402-0~Reference-PASS



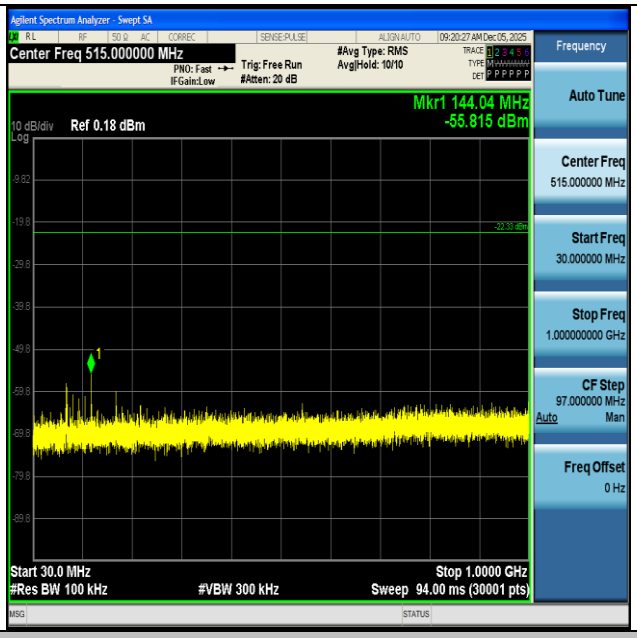
3DH5-Ant1-2402-30~1000-PASS



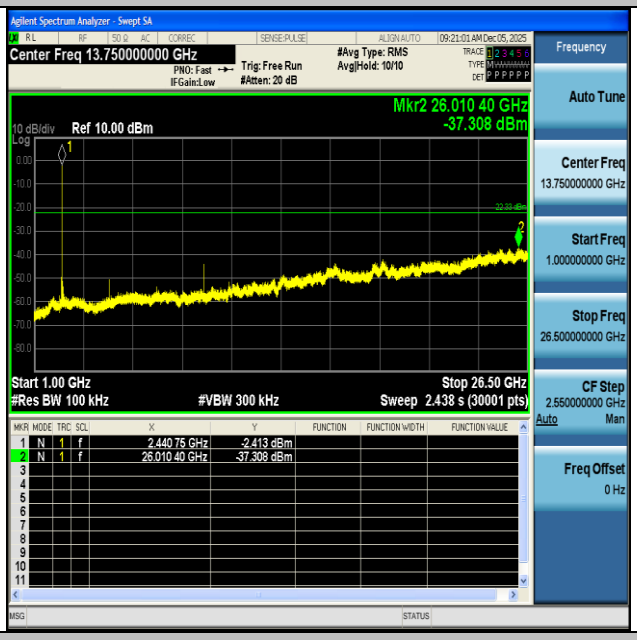
3DH5-Ant1-2402-1000~26500-PASS



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

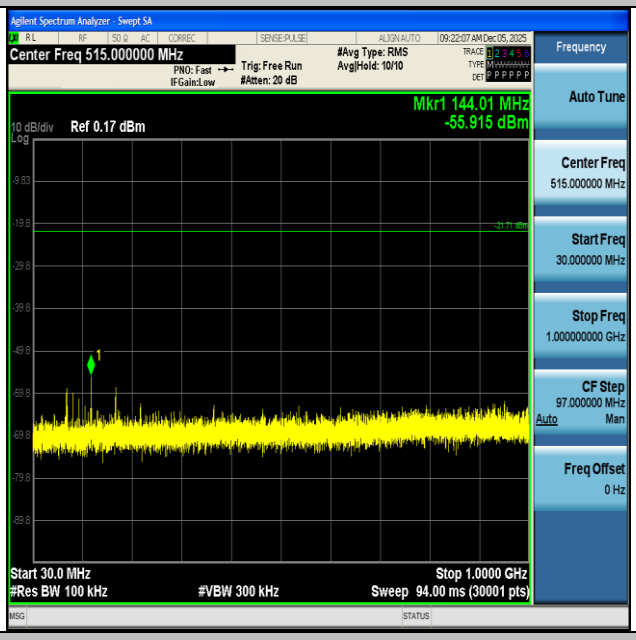


3DH5-Ant1-2441-30~1000-PASS

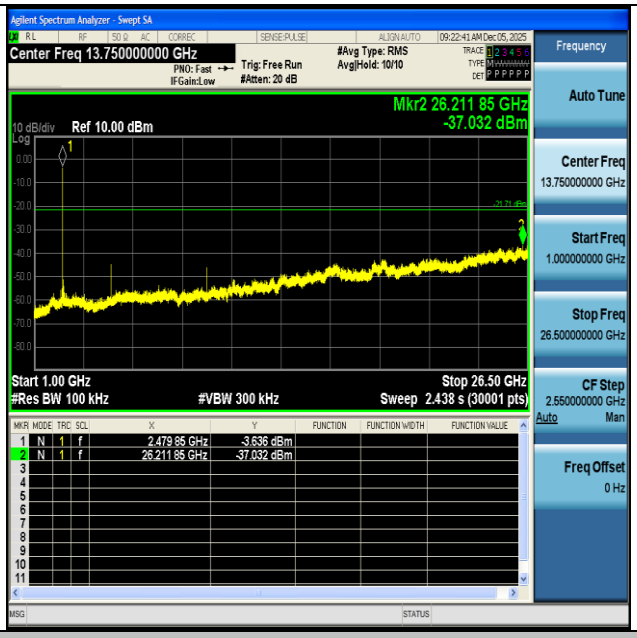


3DH5-Ant1-2441-1000~26500-PASS

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



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



3DH5-Ant1-2480-1000~26500-PASS

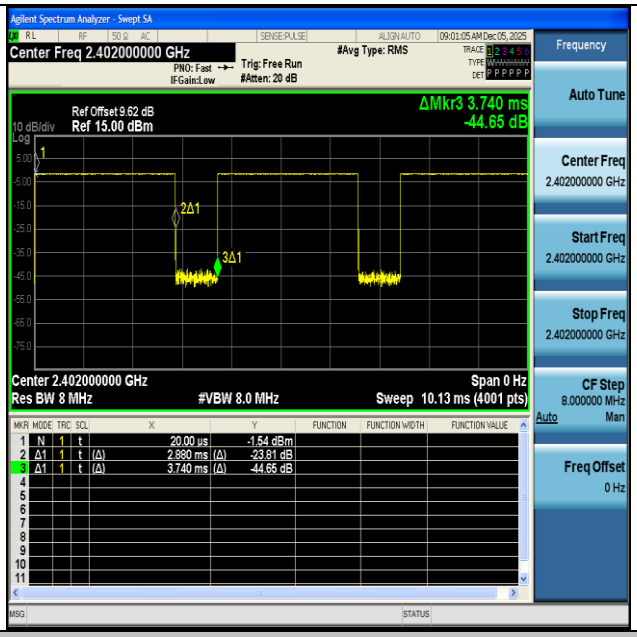
Appendix I: Duty Cycle

Test Result

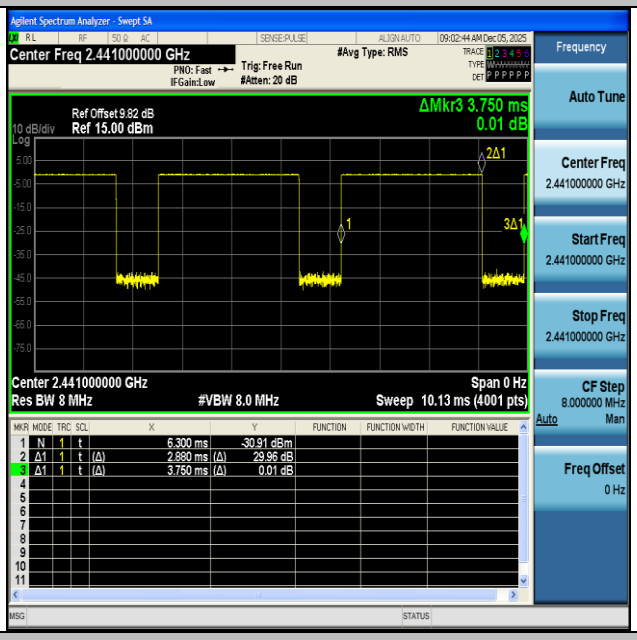
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.88	3.74	77.01	1.13
DH5	Ant1	2441	2.88	3.75	76.80	1.15
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.89	3.75	77.07	1.13
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
3DH5	Ant1	2441	2.88	3.75	76.80	1.15
3DH5	Ant1	2480	2.89	3.75	77.07	1.13

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

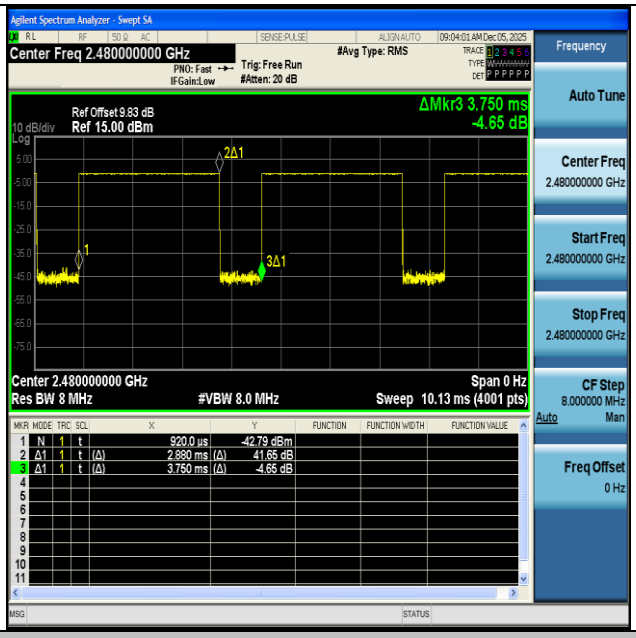
Test Graphs



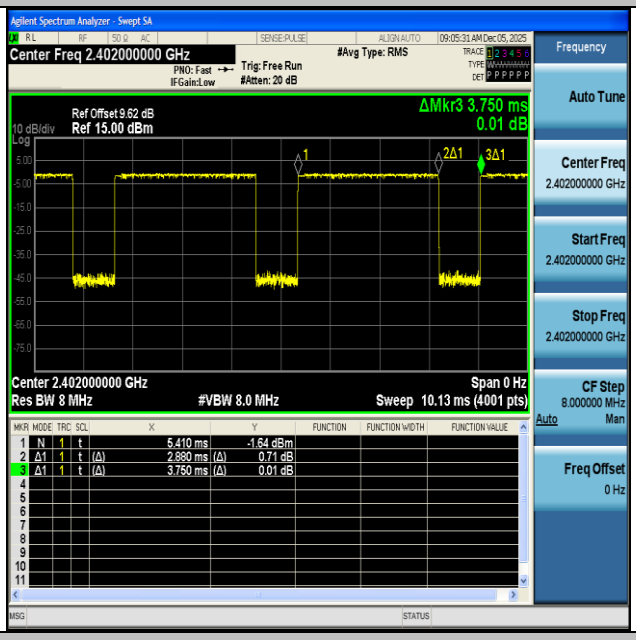
NTNV-DH5-Ant1-2402



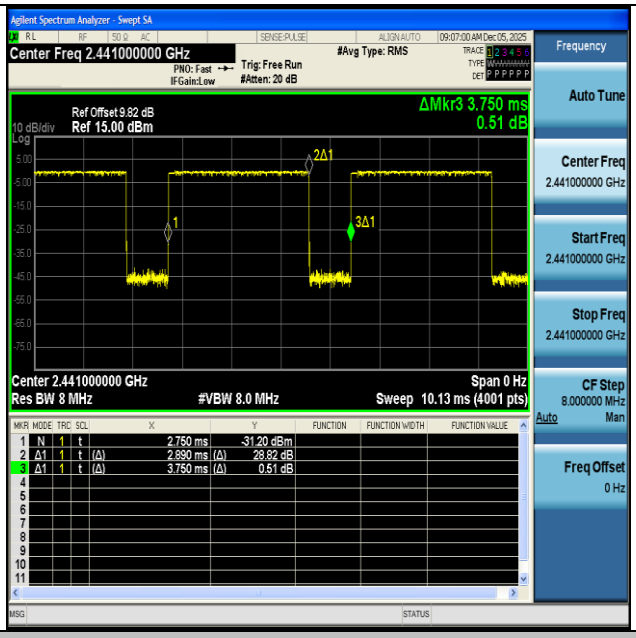
NTNV-DH5-Ant1-2441



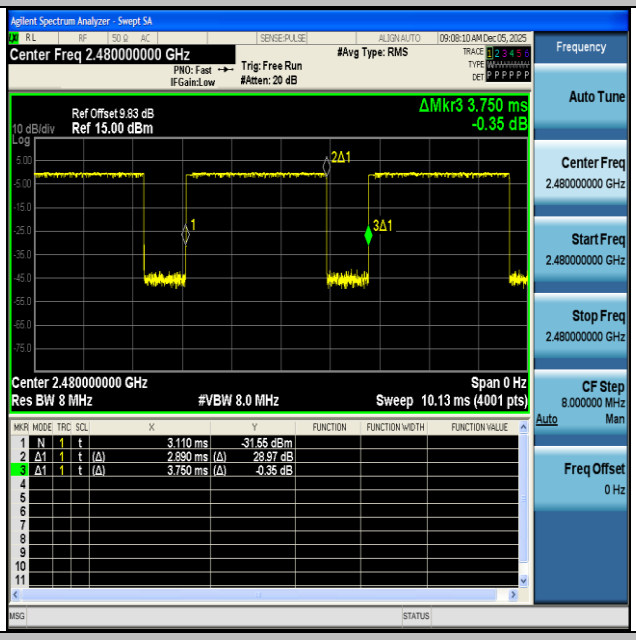
NTNV-DH5-Ant1-2480



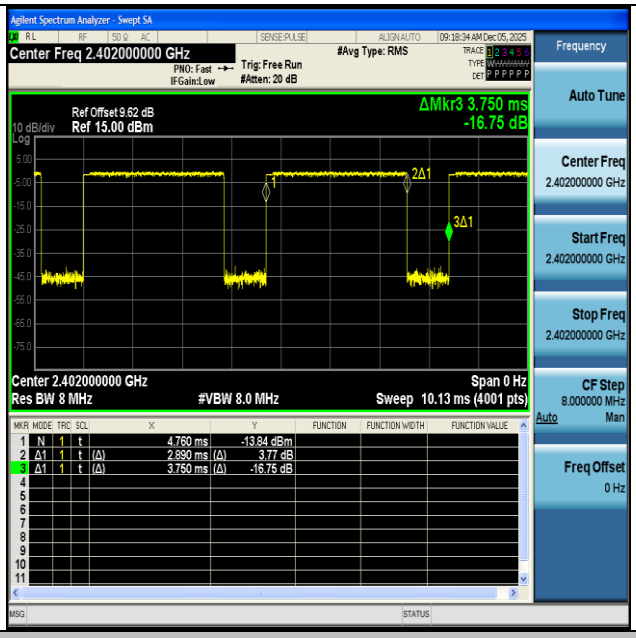
NTNV-2DH5-Ant1-2402



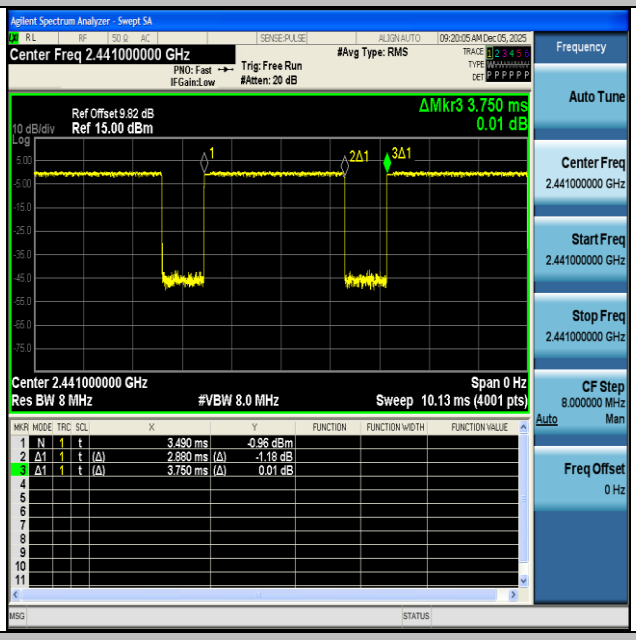
NTNV-2DH5-Ant1-2441



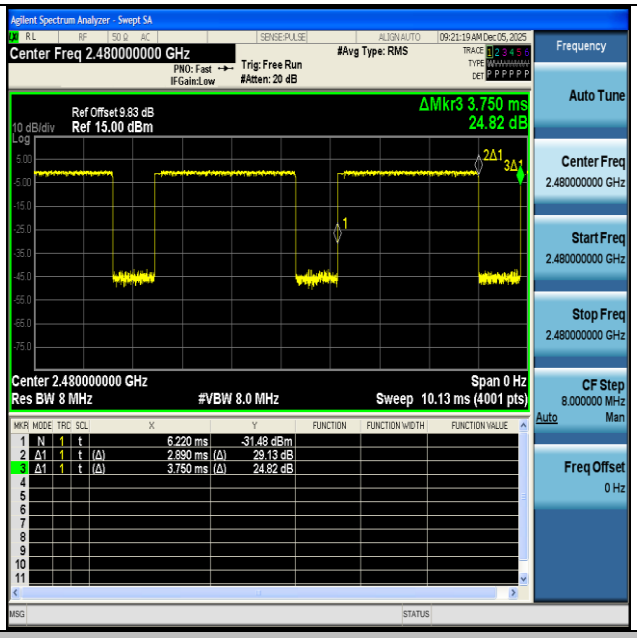
NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480