

Appendix Test Data

Report No:	1813C40076012501	Test Sample NO:	1-2-2
Start Test Date:	2024.9.23	Finish Test Date:	2024.9.23
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.9°C	Relative Humidity:	49%
Pressure:	101 kPa		

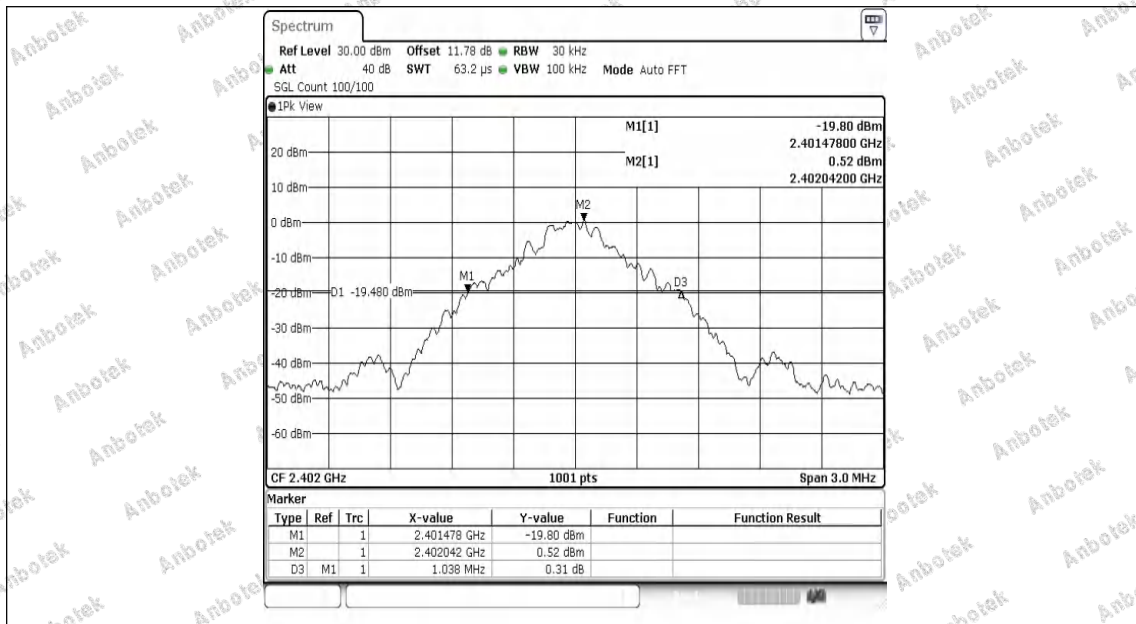
Appendix A: 20dB Emission Bandwidth

Test Result

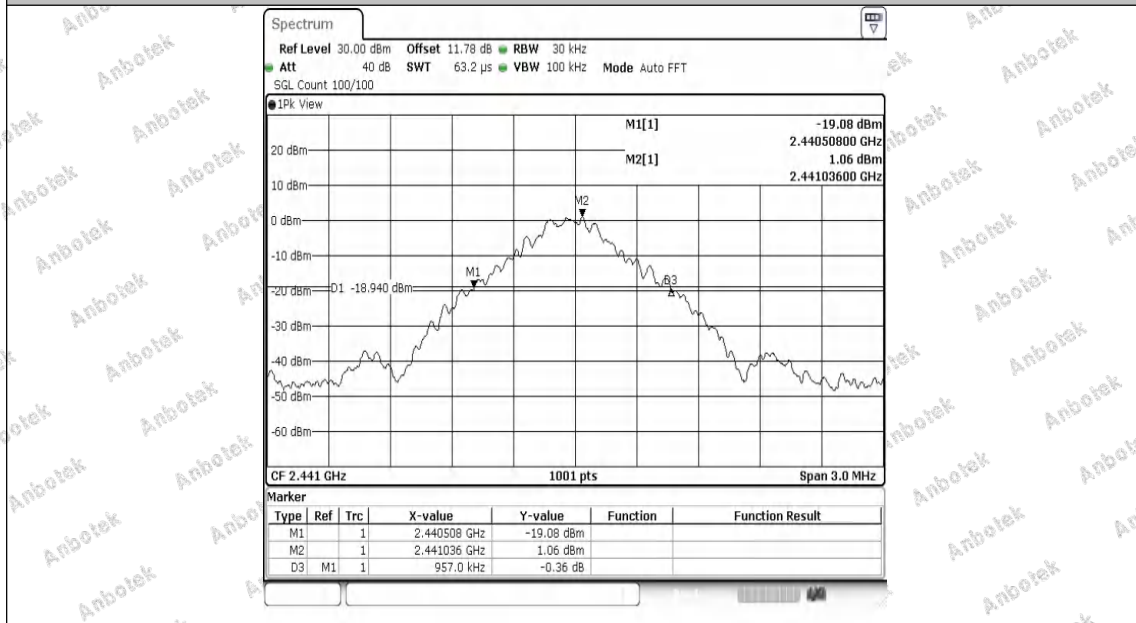
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.04	2401.48	2402.52	---	---
DH5	Ant1	2441	0.96	2440.51	2441.47	---	---
DH5	Ant1	2480	0.97	2479.49	2480.46	---	---
2DH5	Ant1	2402	1.37	2401.30	2402.67	---	---
2DH5	Ant1	2441	1.35	2440.30	2441.66	---	---
2DH5	Ant1	2480	1.35	2479.30	2480.65	---	---
3DH5	Ant1	2402	1.34	2401.31	2402.65	---	---
3DH5	Ant1	2441	1.29	2440.31	2441.60	---	---
3DH5	Ant1	2480	1.31	2479.32	2480.63	---	---



Test Graphs

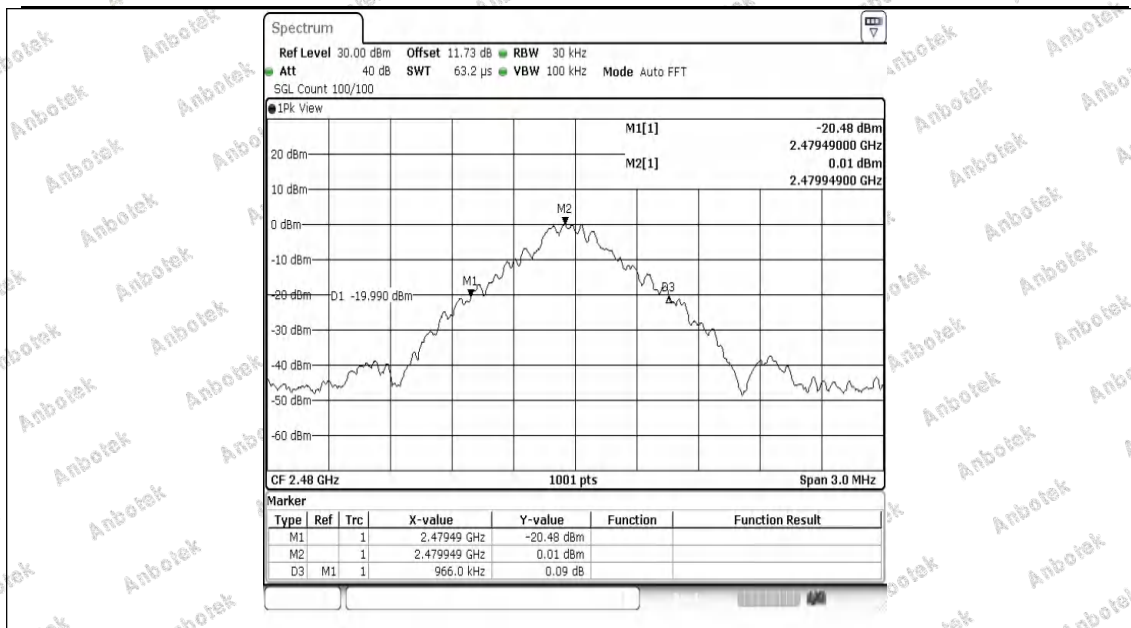


DH5-Ant1-2402

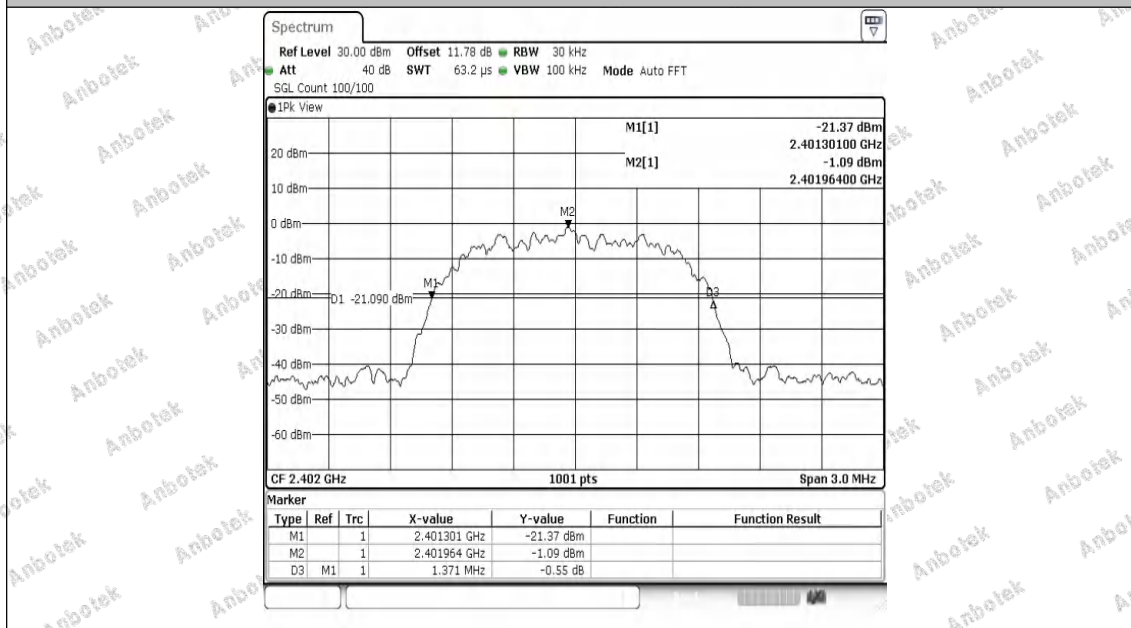


DH5-Ant1-2441



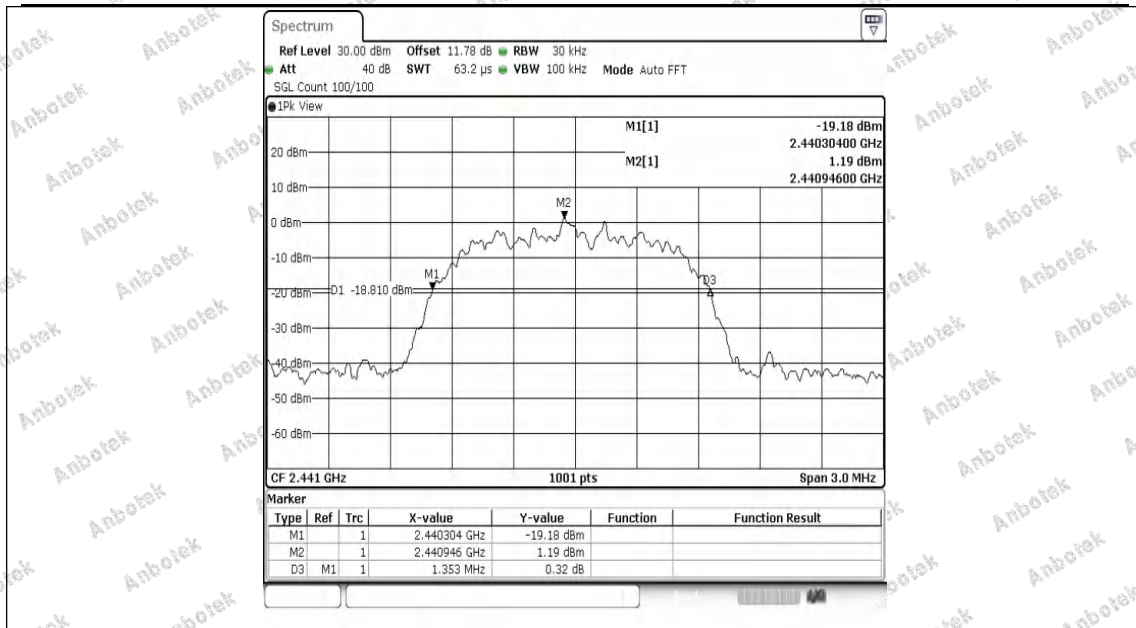


DH5-Ant1-2480

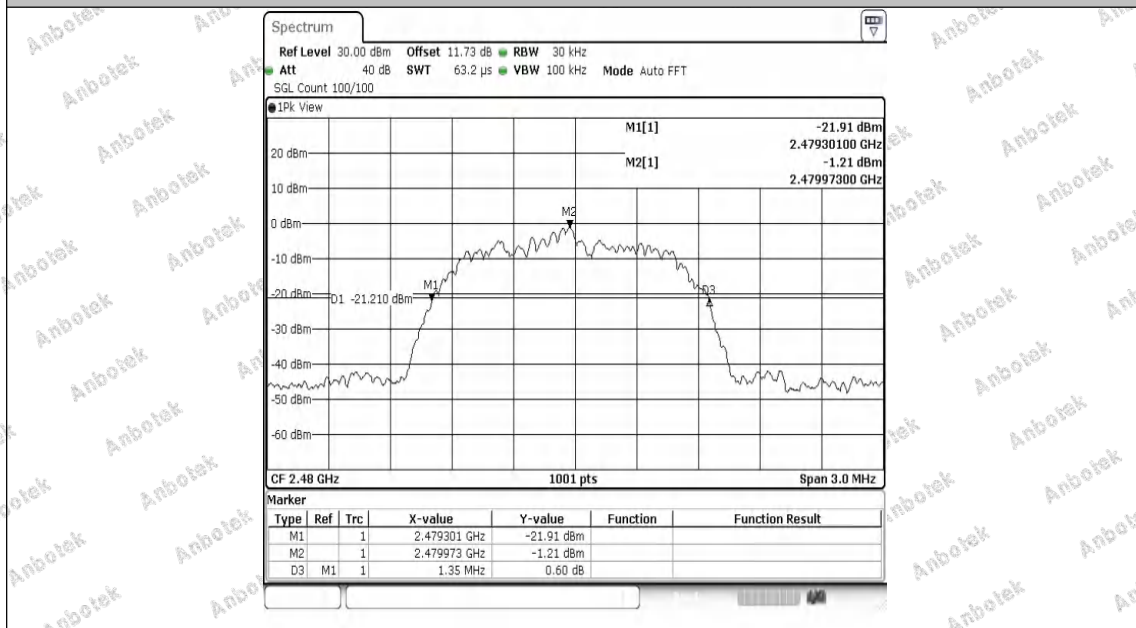


2DH5-Ant1-2402



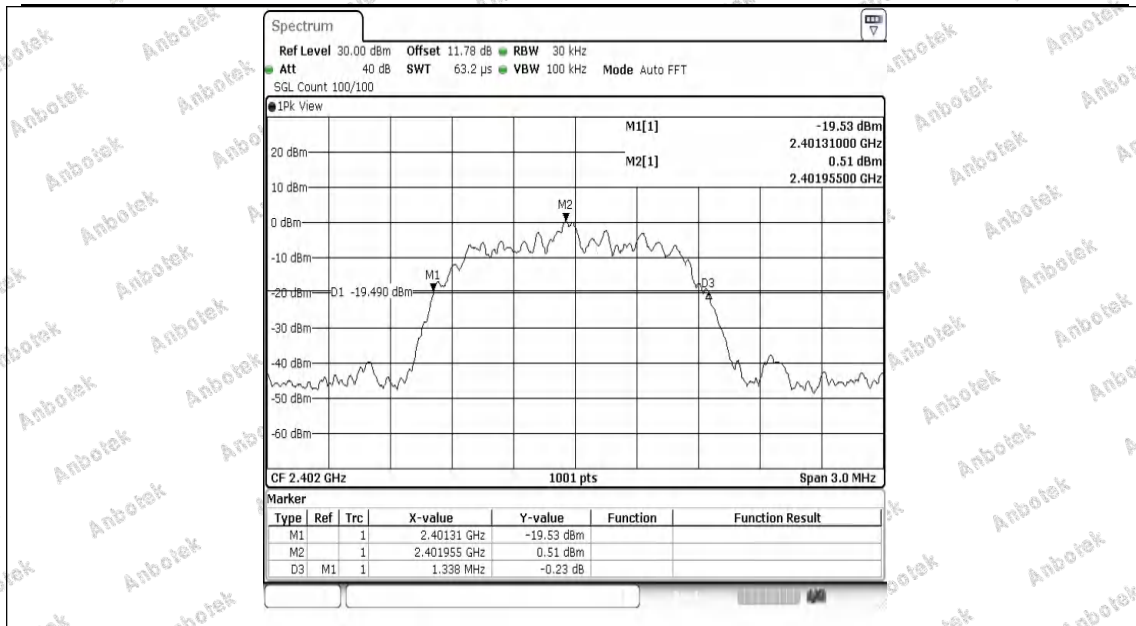


2DH5-Ant1-2441

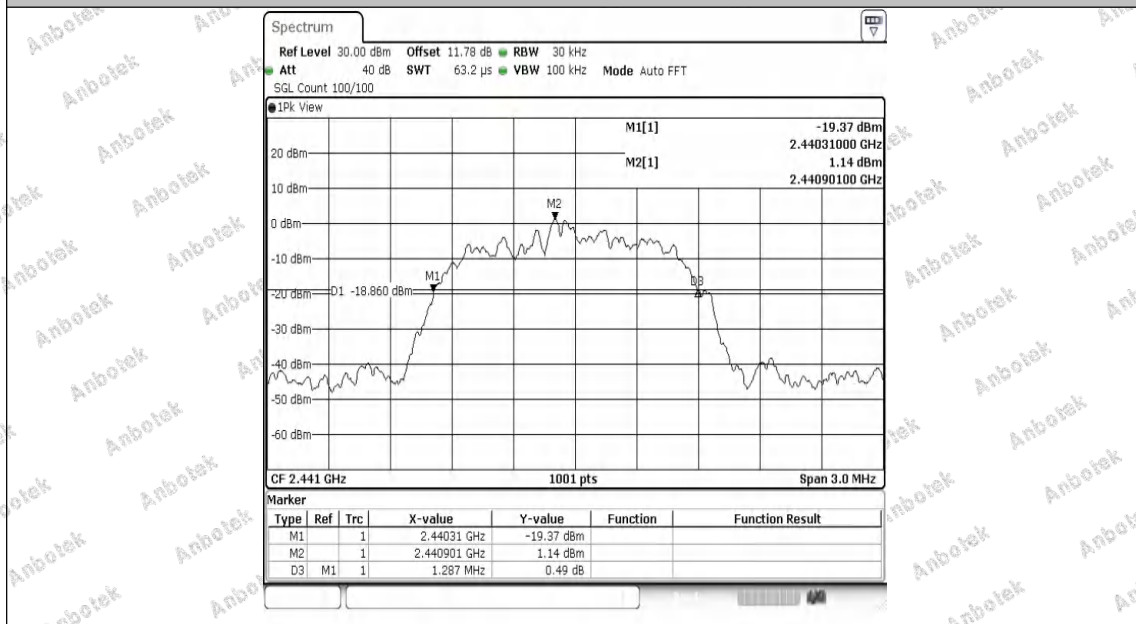


2DH5-Ant1-2480



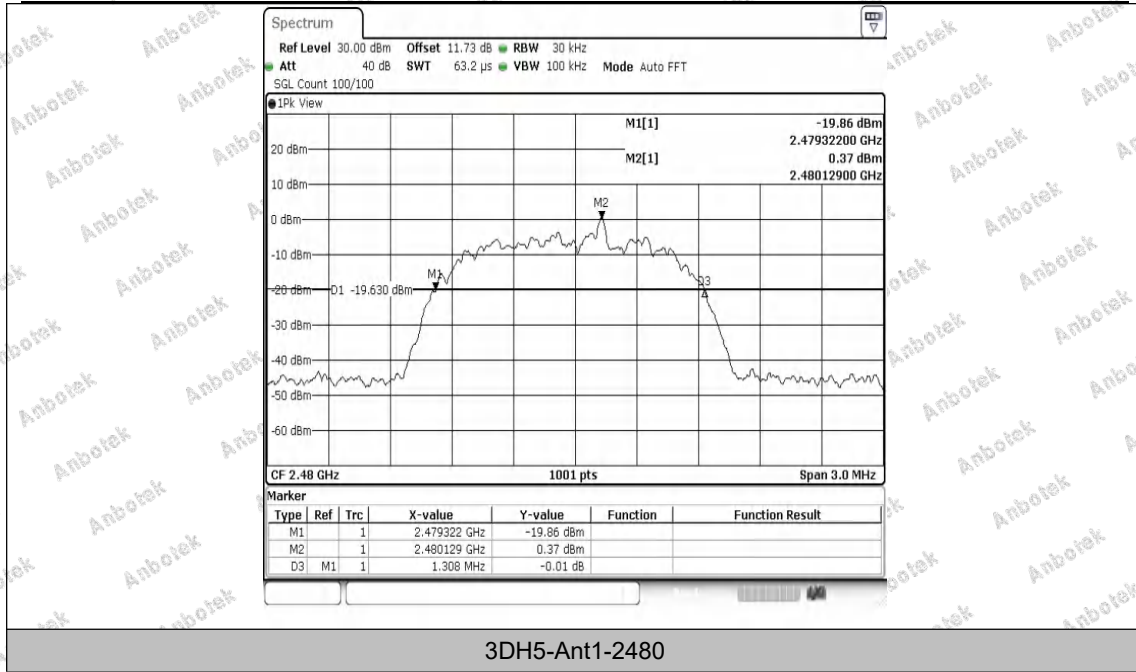


3DH5-Ant1-2402



3DH5-Ant1-2441





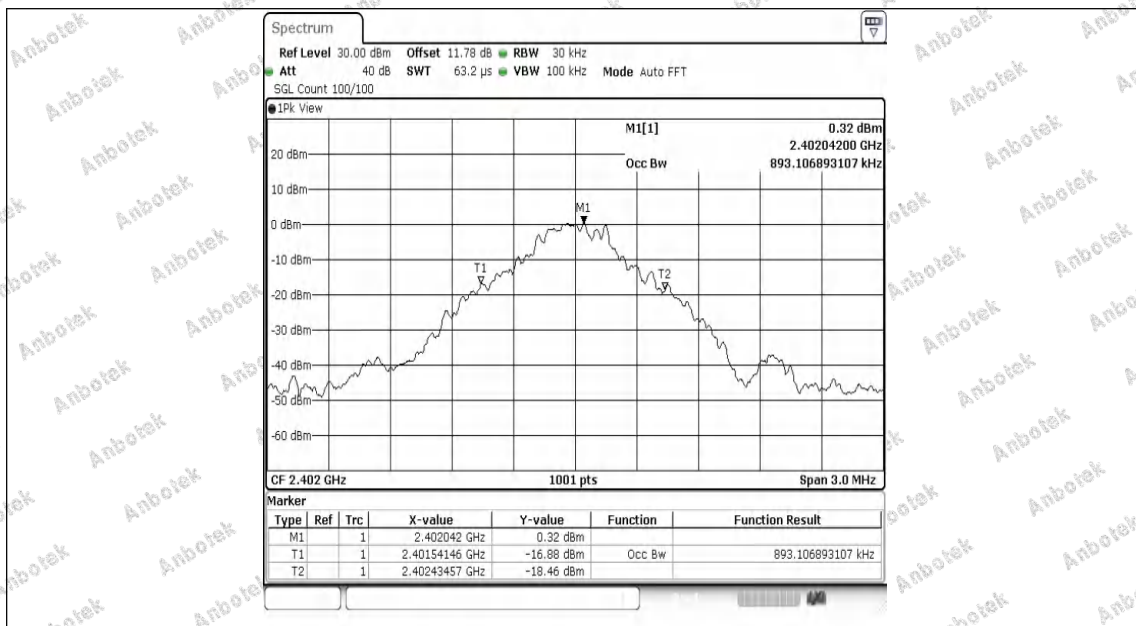
Appendix B: Occupied Channel Bandwidth

Test Result

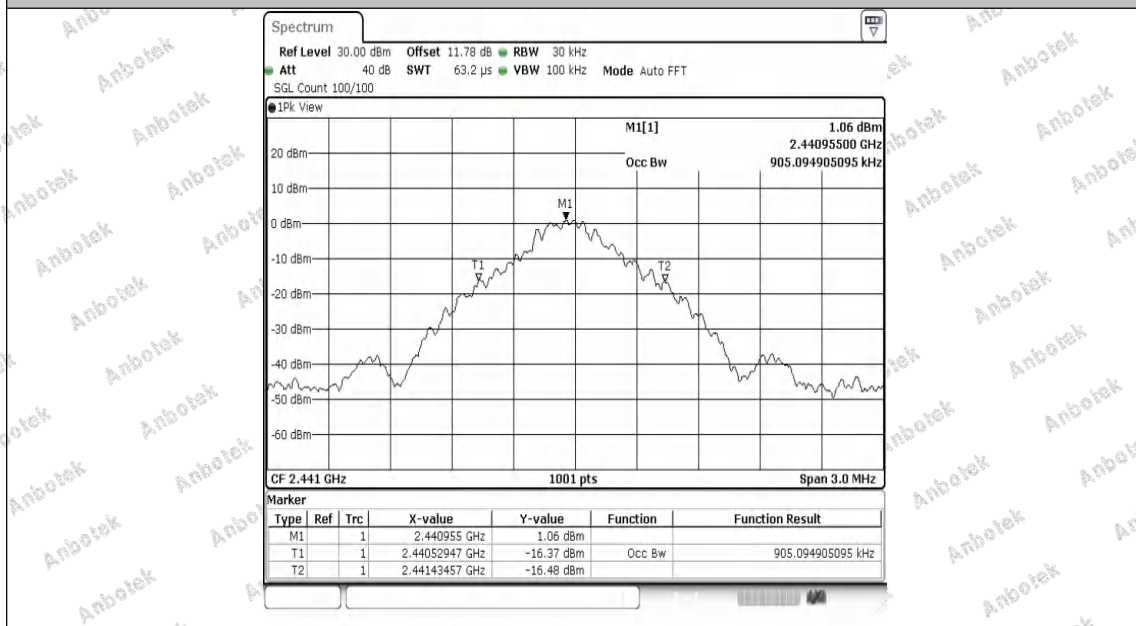
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.893	2401.5415	2402.4346	---	---
DH5	Ant1	2441	0.905	2440.5295	2441.4346	---	---
DH5	Ant1	2480	0.893	2479.5235	2480.4166	---	---
2DH5	Ant1	2402	1.208	2401.3826	2402.5904	---	---
2DH5	Ant1	2441	1.208	2440.3736	2441.5814	---	---
2DH5	Ant1	2480	1.199	2479.3736	2480.5724	---	---
3DH5	Ant1	2402	1.196	2401.3766	2402.5724	---	---
3DH5	Ant1	2441	1.187	2440.3736	2441.5604	---	---
3DH5	Ant1	2480	1.205	2479.3616	2480.5664	---	---



Test Graphs

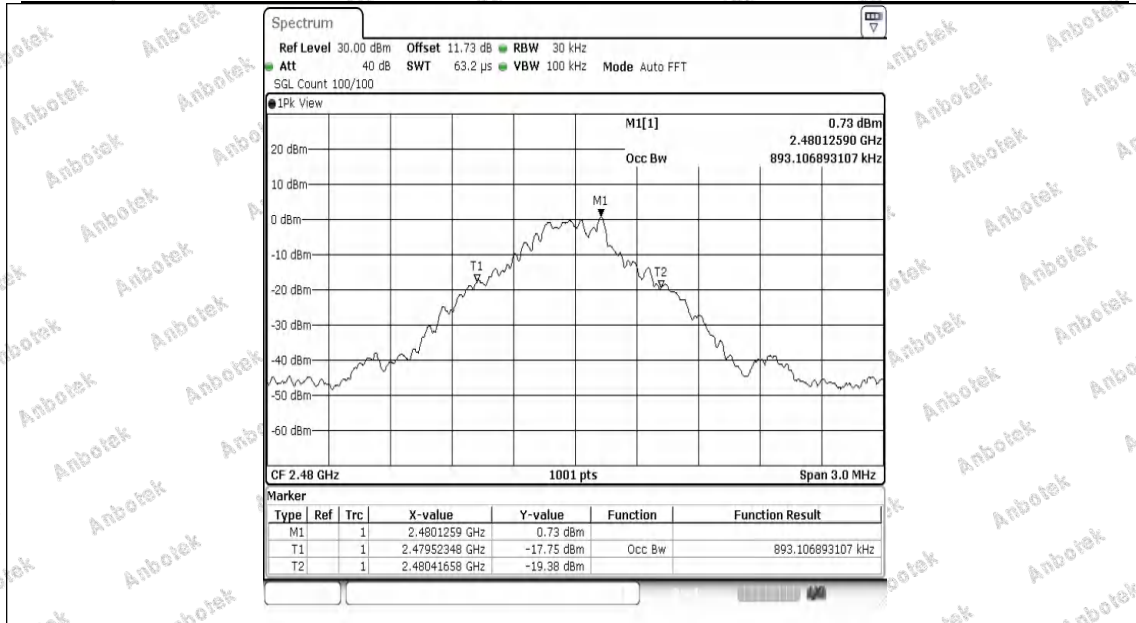


DH5-Ant1-2402

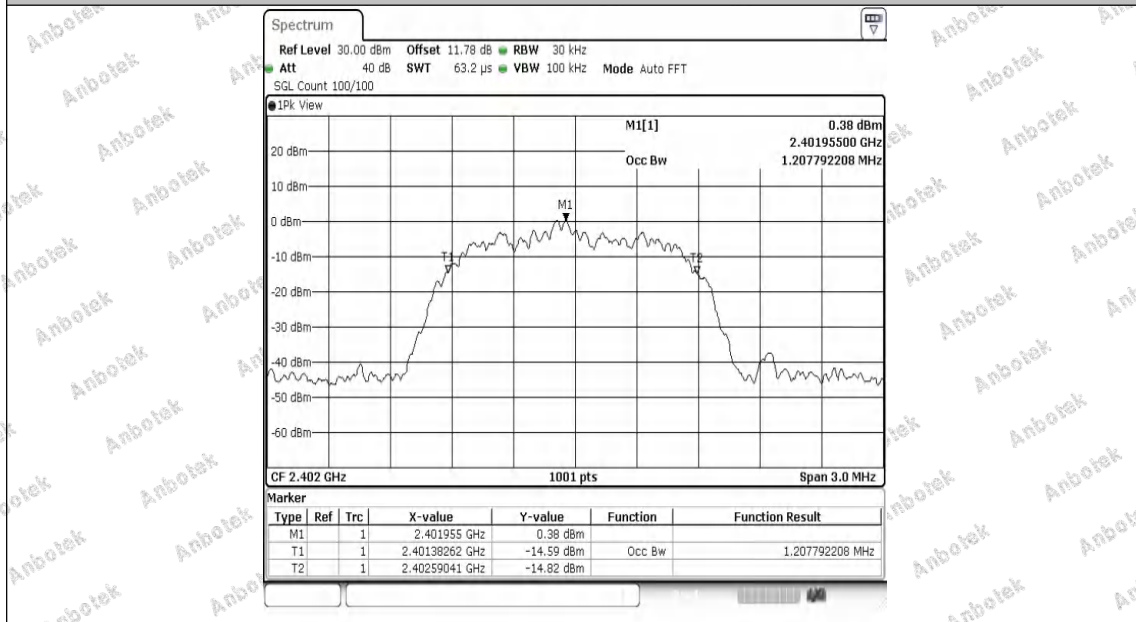


DH5-Ant1-2441



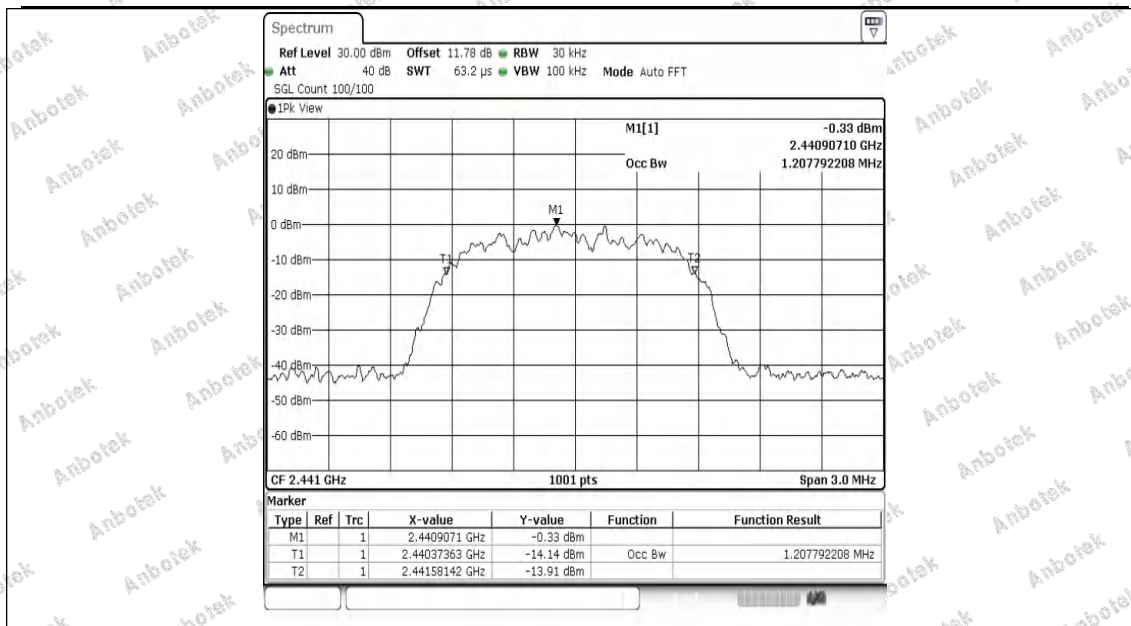


DH5-Ant1-2480

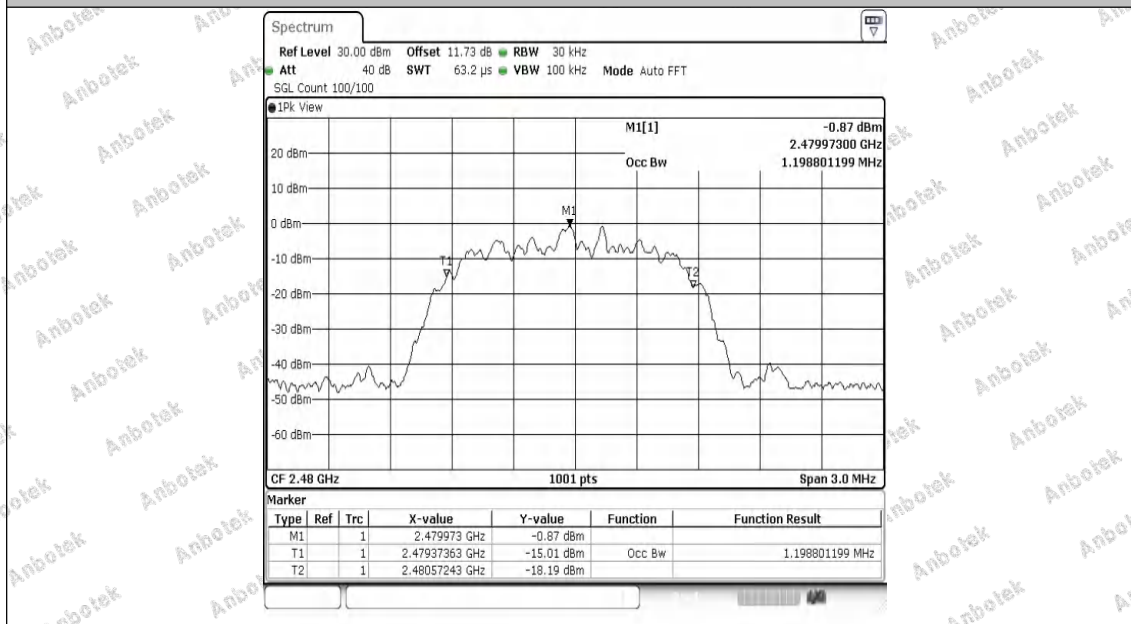


2DH5-Ant1-2402



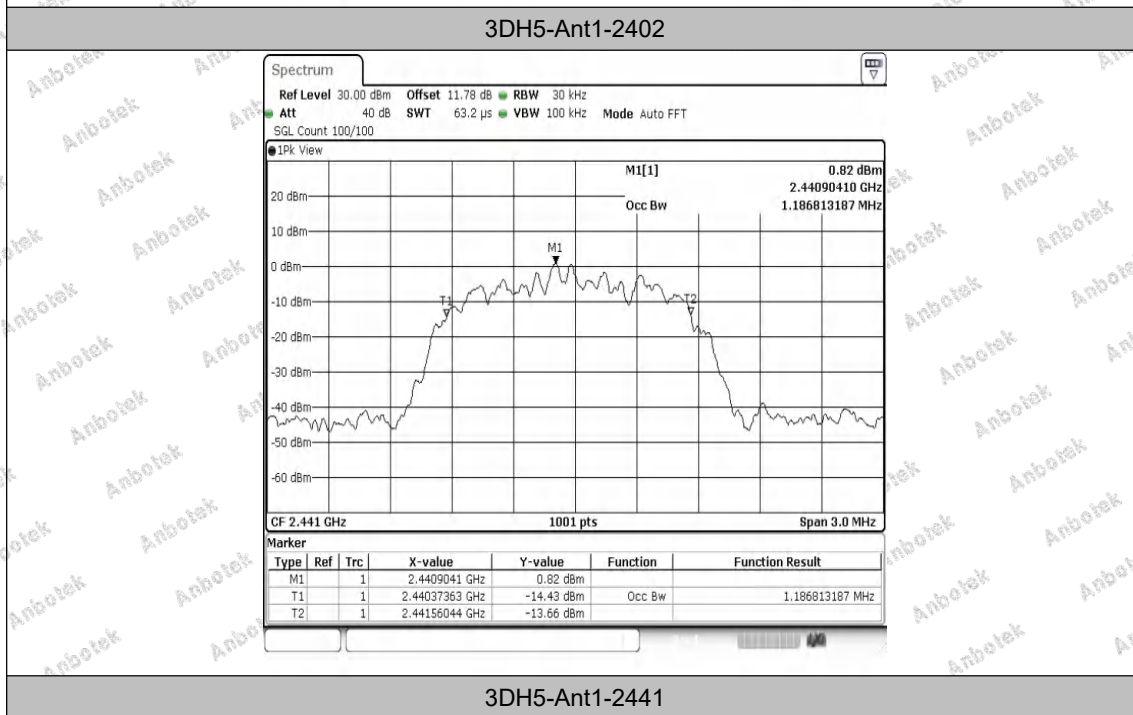
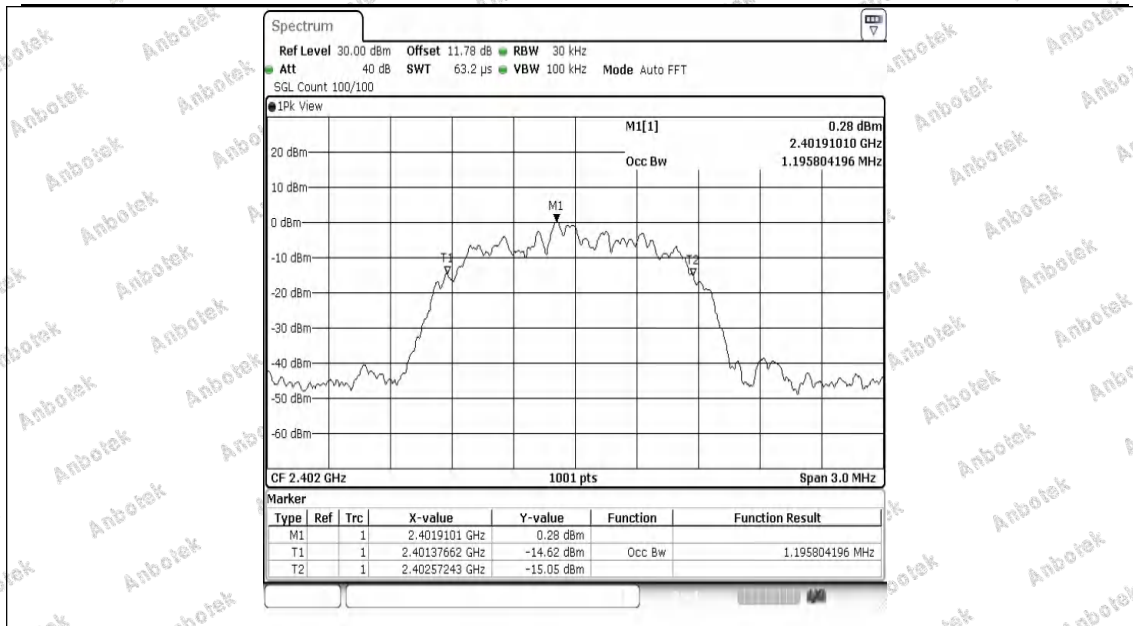


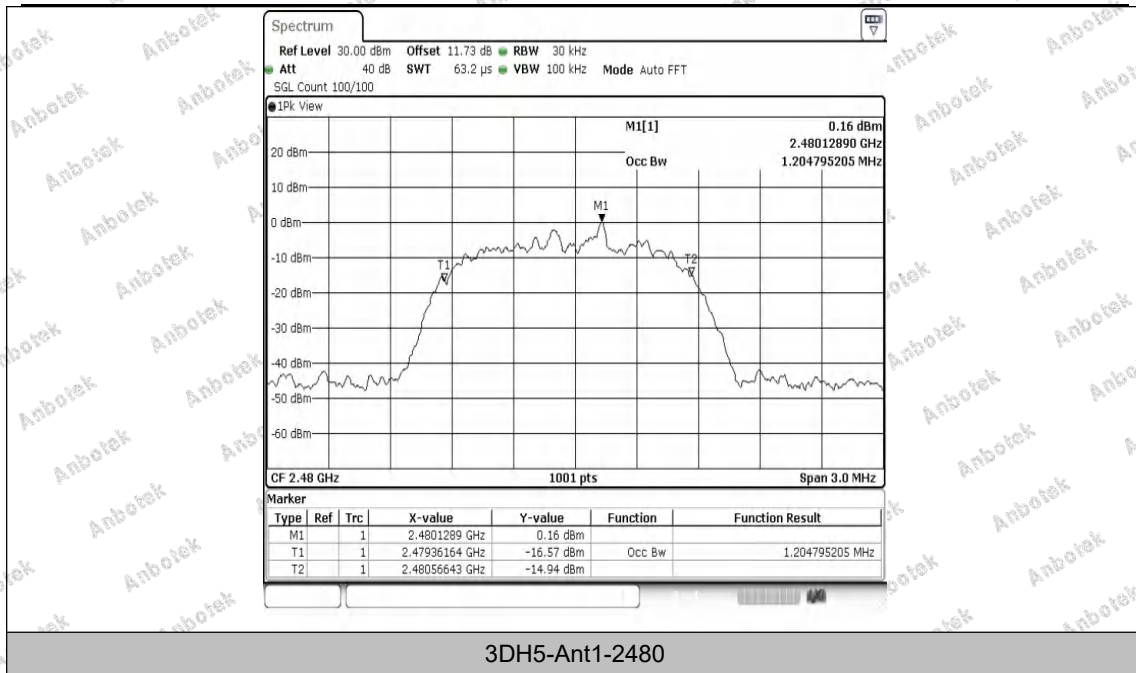
2DH5-Ant1-2441



2DH5-Ant1-2480







3DH5-Ant1-2480

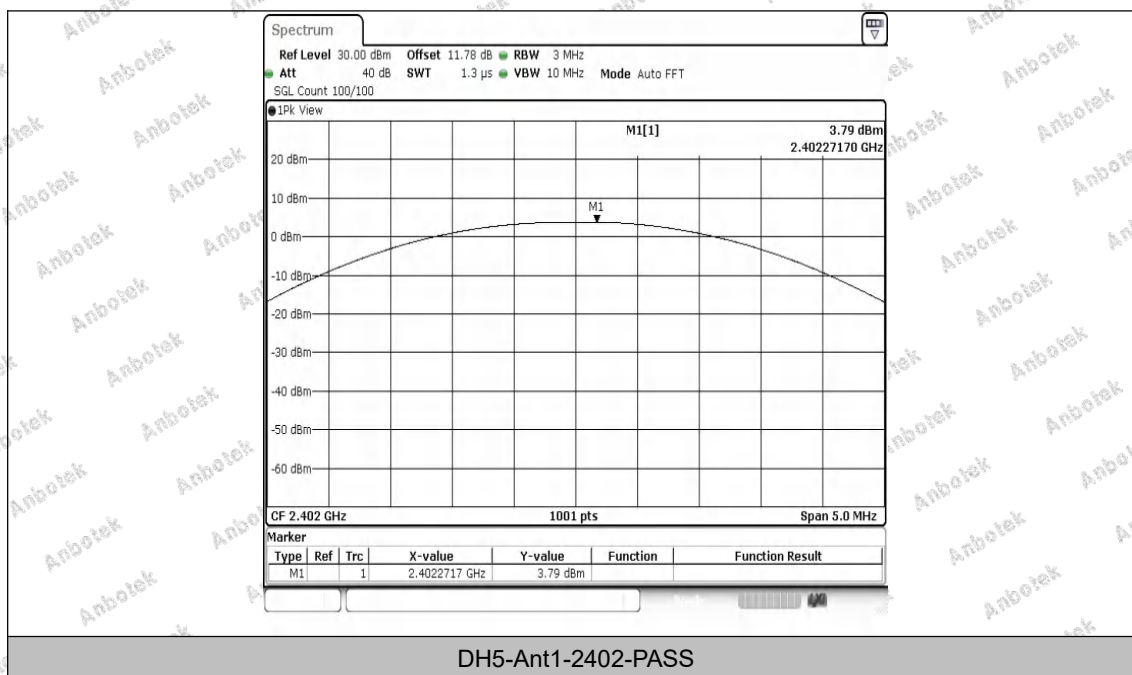


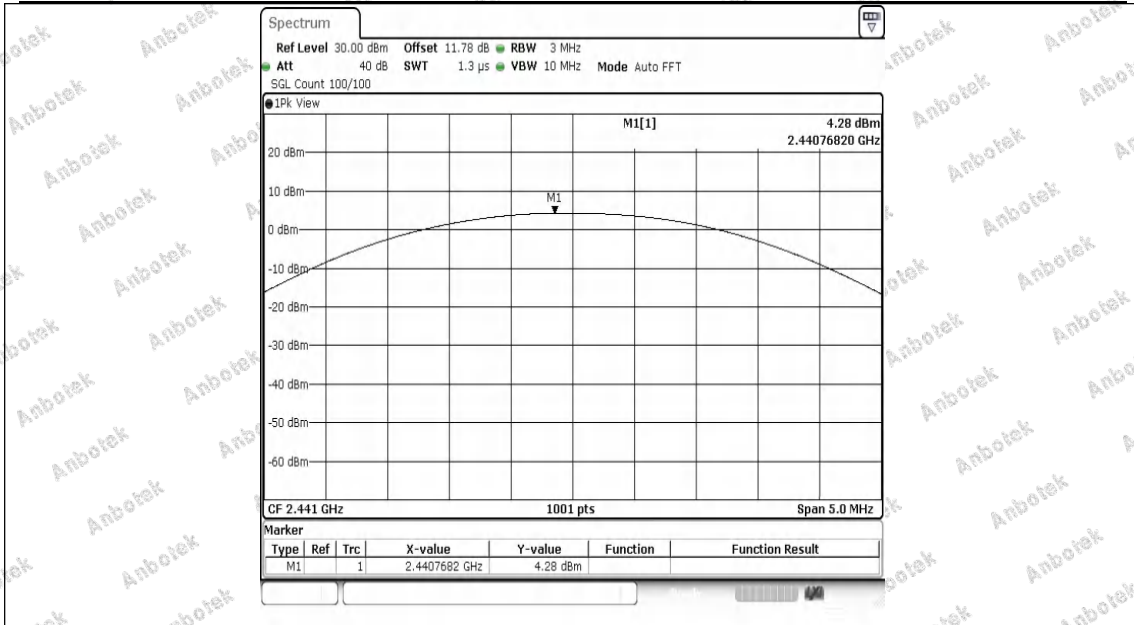
Appendix C: Maximum conducted output power

Test Result Peak

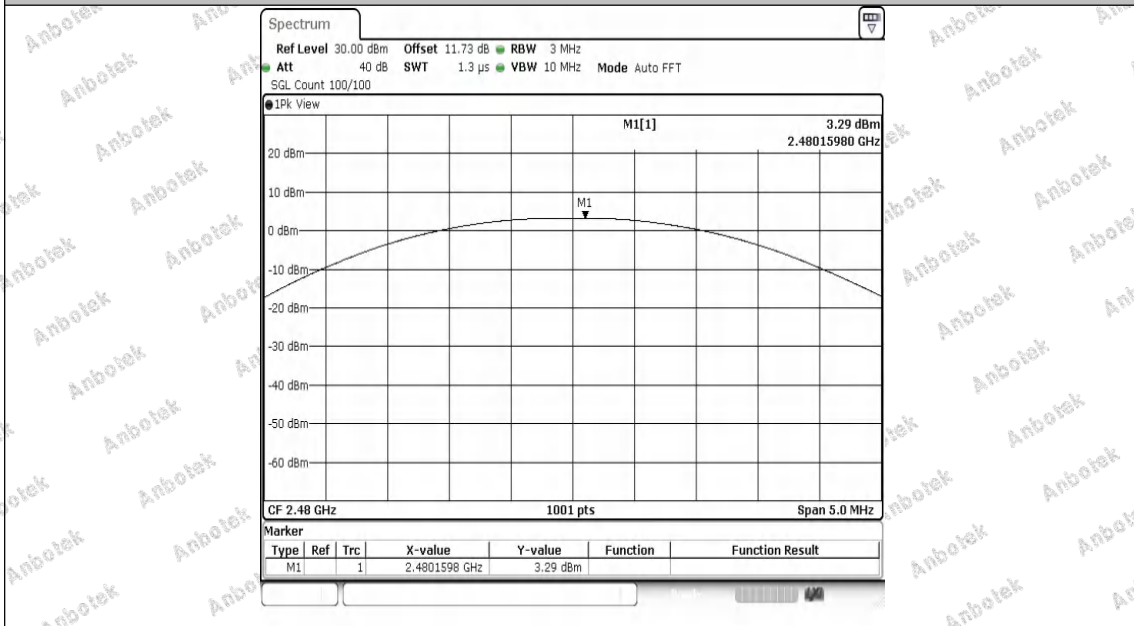
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	3.79	≤20.97	PASS
DH5	Ant1	2441	4.28	≤20.97	PASS
DH5	Ant1	2480	3.29	≤20.97	PASS
2DH5	Ant1	2402	5.98	≤20.97	PASS
2DH5	Ant1	2441	6.70	≤20.97	PASS
2DH5	Ant1	2480	4.32	≤20.97	PASS
3DH5	Ant1	2402	6.24	≤20.97	PASS
3DH5	Ant1	2441	6.86	≤20.97	PASS
3DH5	Ant1	2480	4.68	≤20.97	PASS

Test Graphs



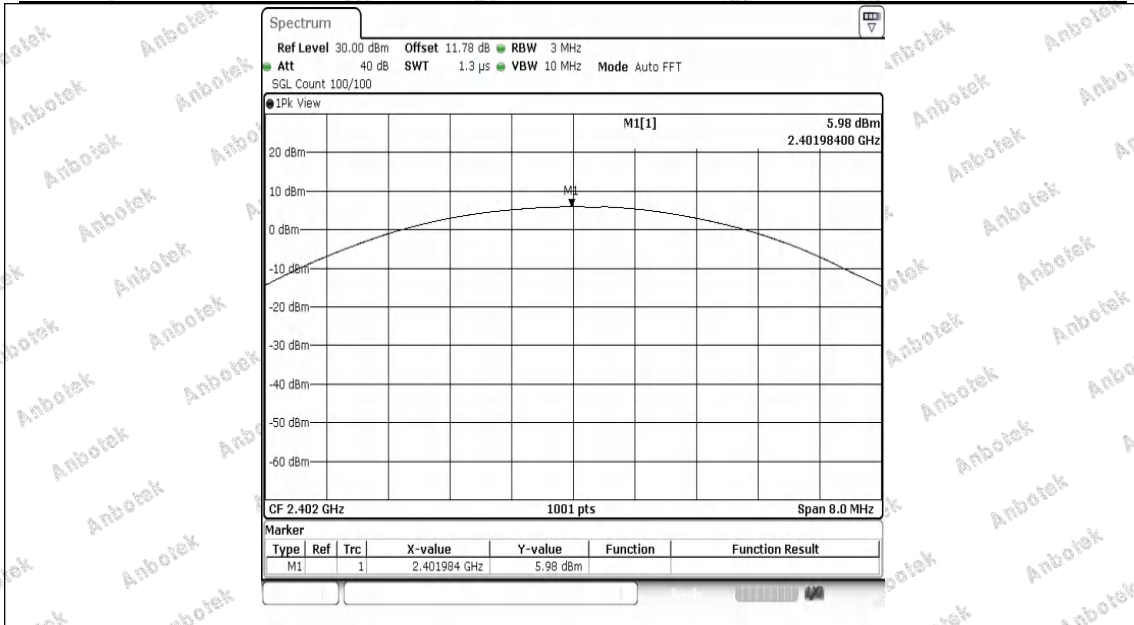


DH5-Ant1-2441-PASS

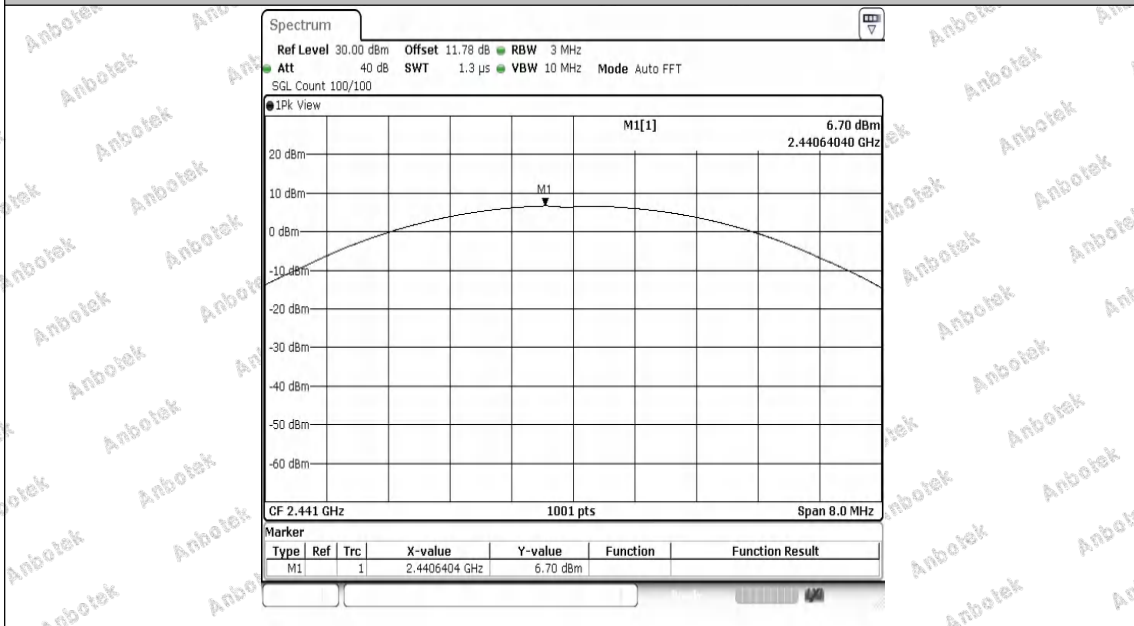


DH5-Ant1-2480-PASS



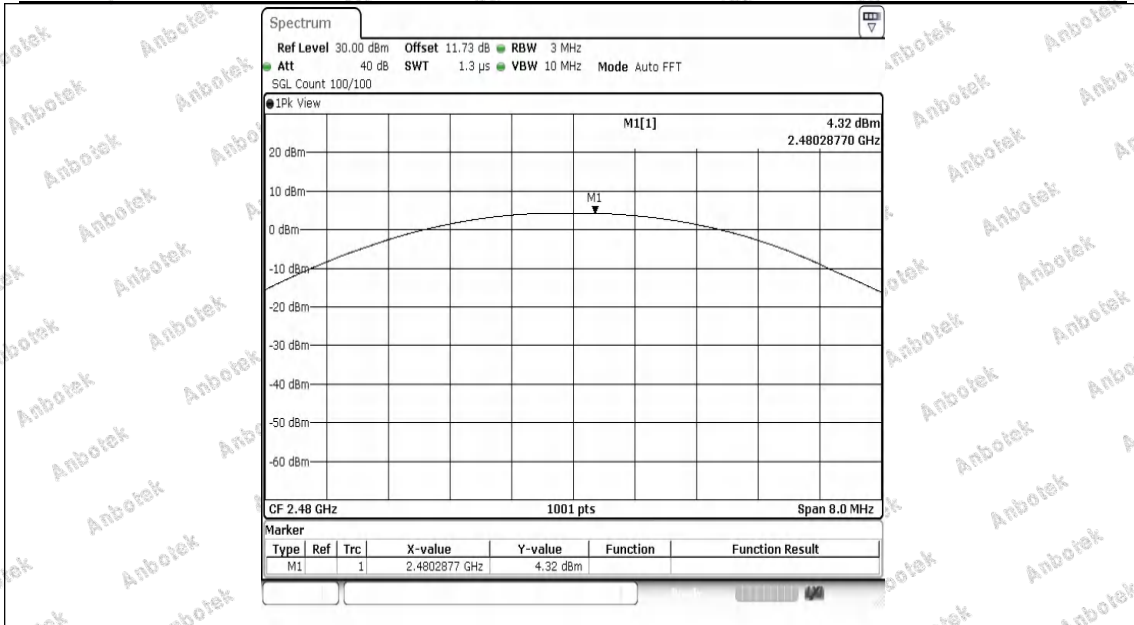


2DH5-Ant1-2402-PASS

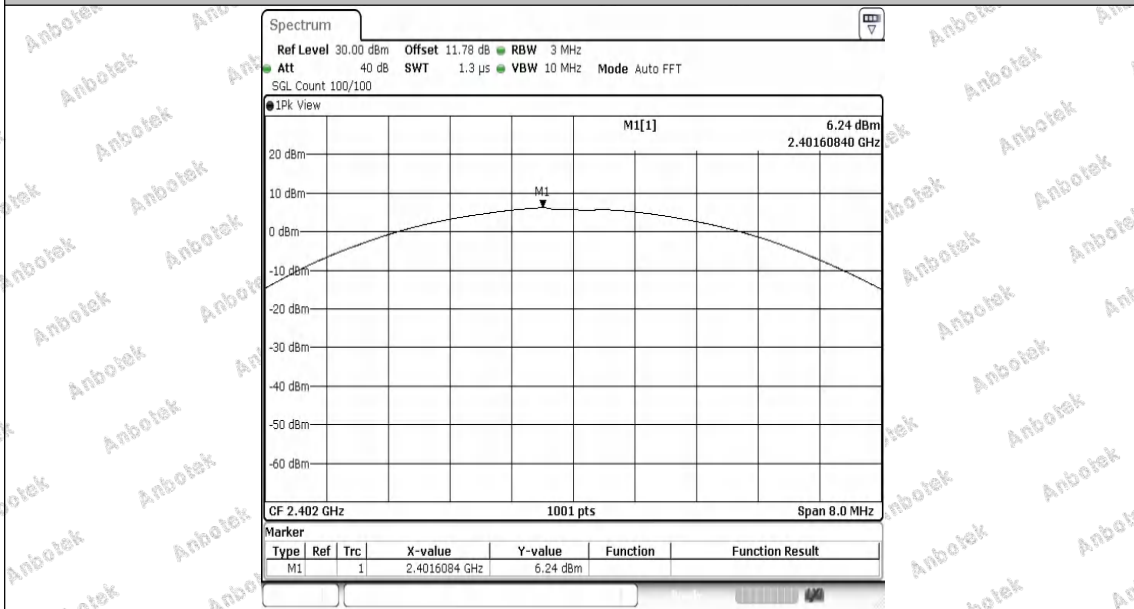


2DH5-Ant1-2441-PASS



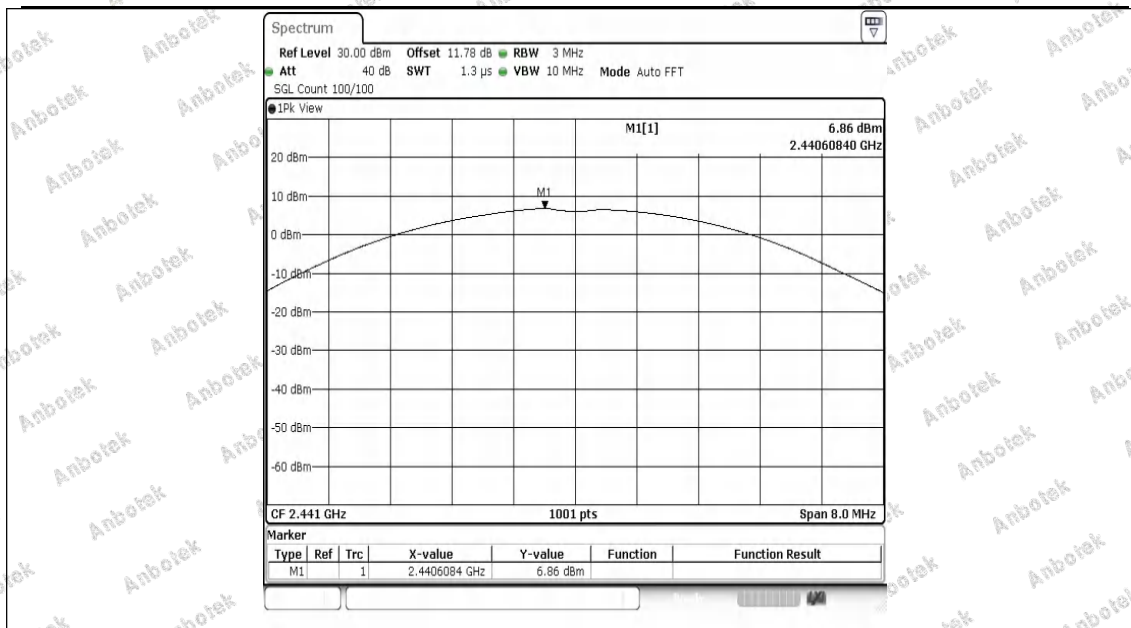


2DH5-Ant1-2480-PASS

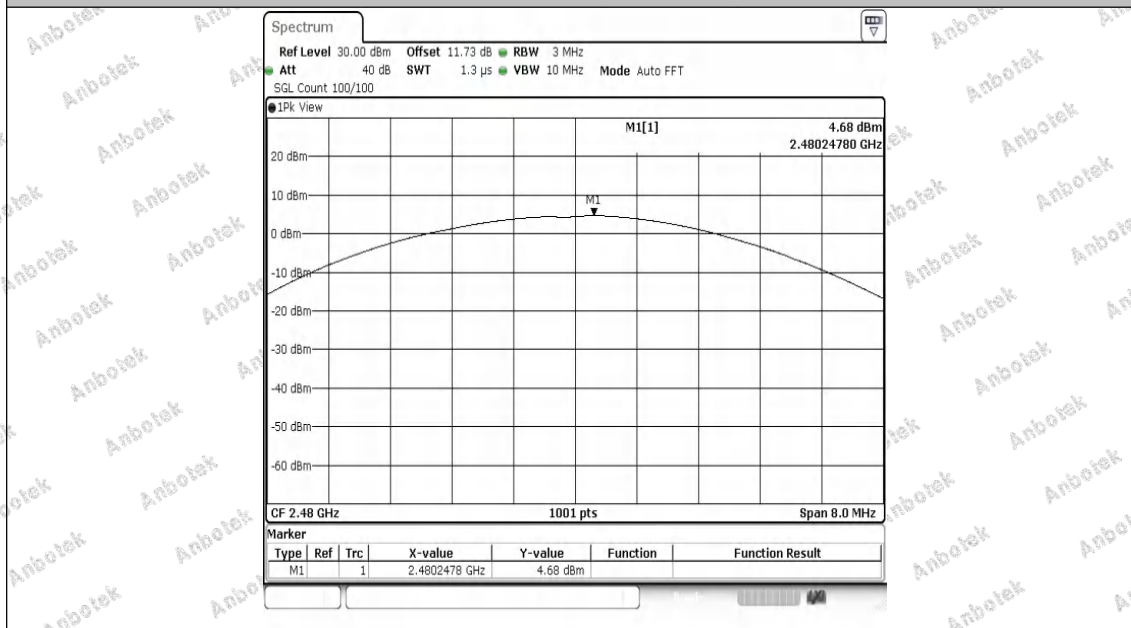


3DH5-Ant1-2402-PASS





3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS



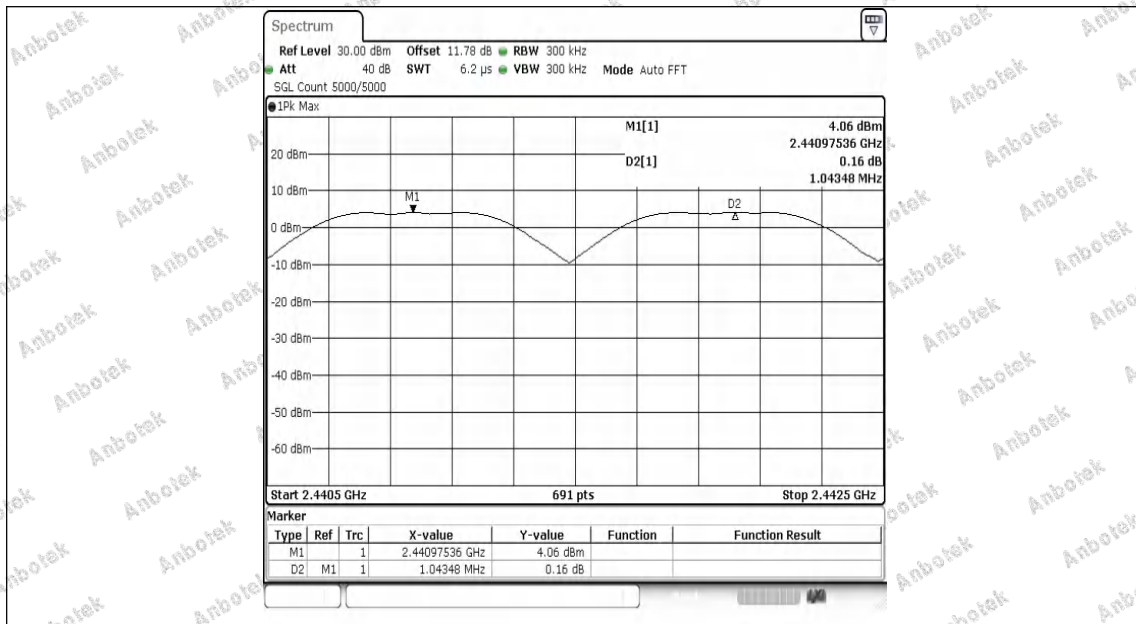
Appendix D: Carrier frequency separation

Test Result

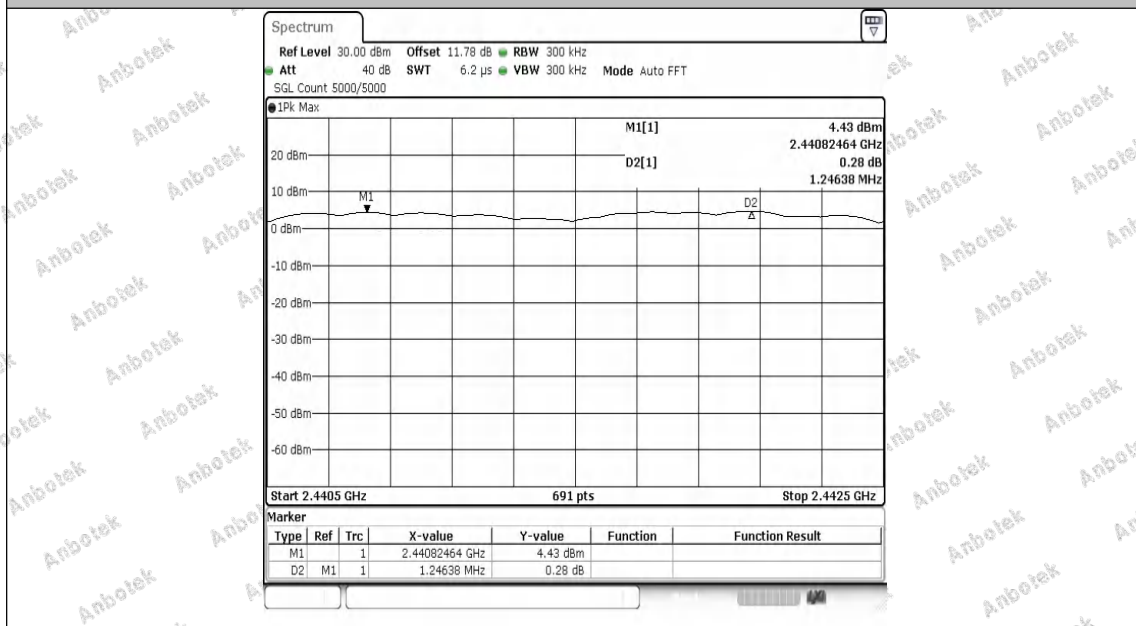
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.043	≥0.693	PASS
2DH5	Ant1	Hop	1.246	≥0.913	PASS
3DH5	Ant1	Hop	0.928	≥0.893	PASS



Test Graphs

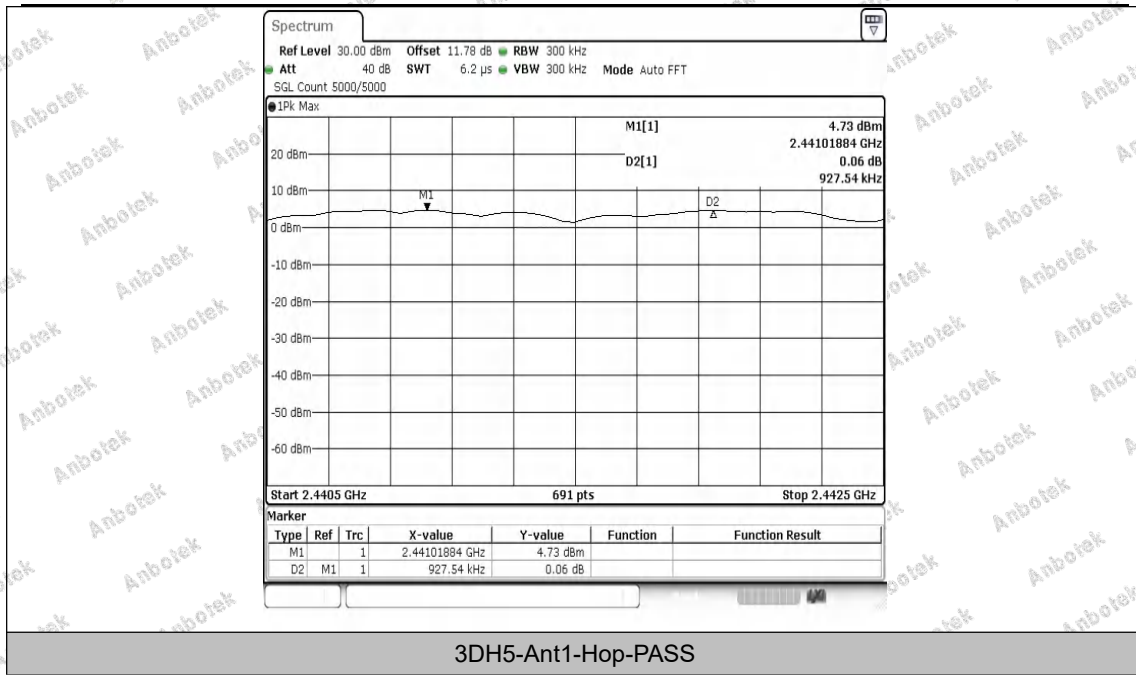


DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS





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 400-003-0500
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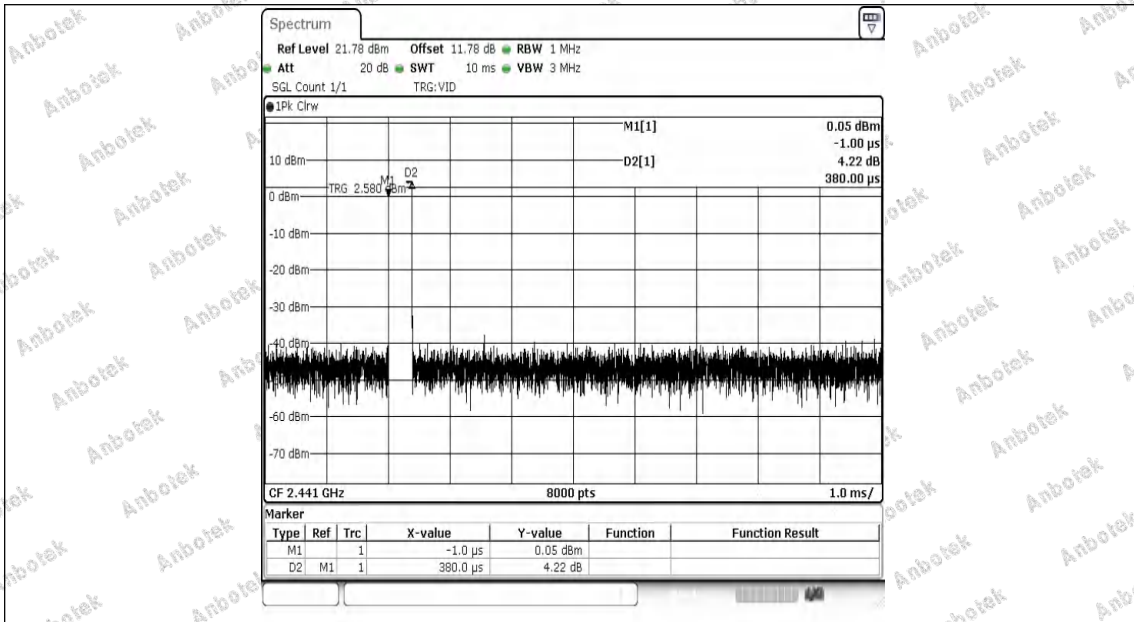
Appendix E: Time of occupancy

Test Result

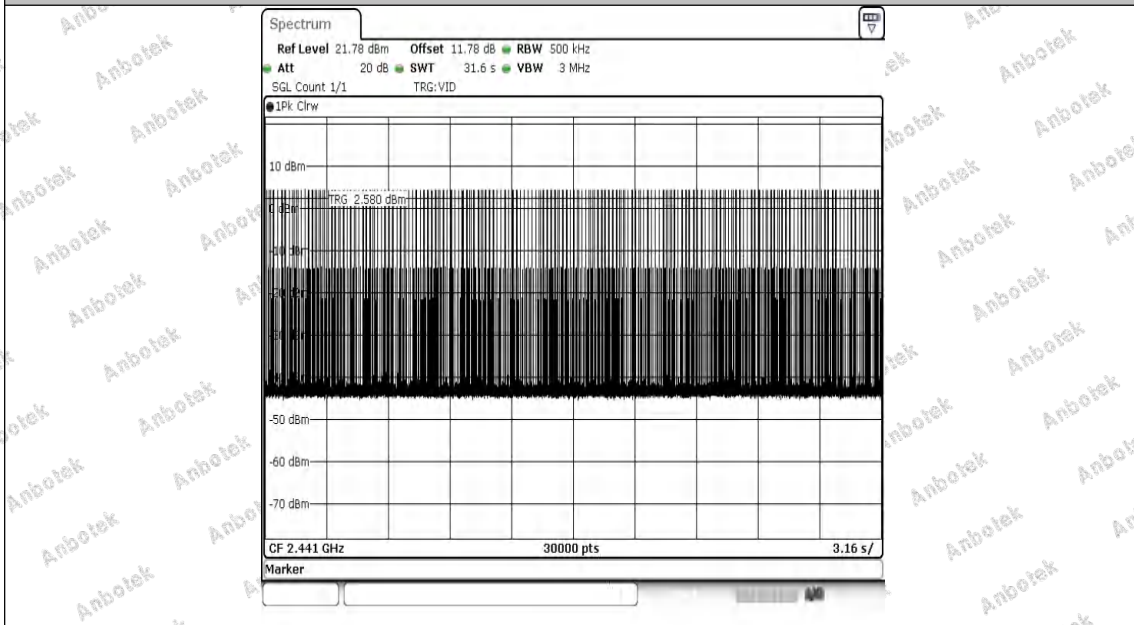
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	314	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.636	157	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.885	105	0.303	≤0.4	PASS
2DH1	Ant1	Hop	0.388	318	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.639	158	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.889	102	0.295	≤0.4	PASS
3DH1	Ant1	Hop	0.386	317	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.638	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.889	118	0.341	≤0.4	PASS

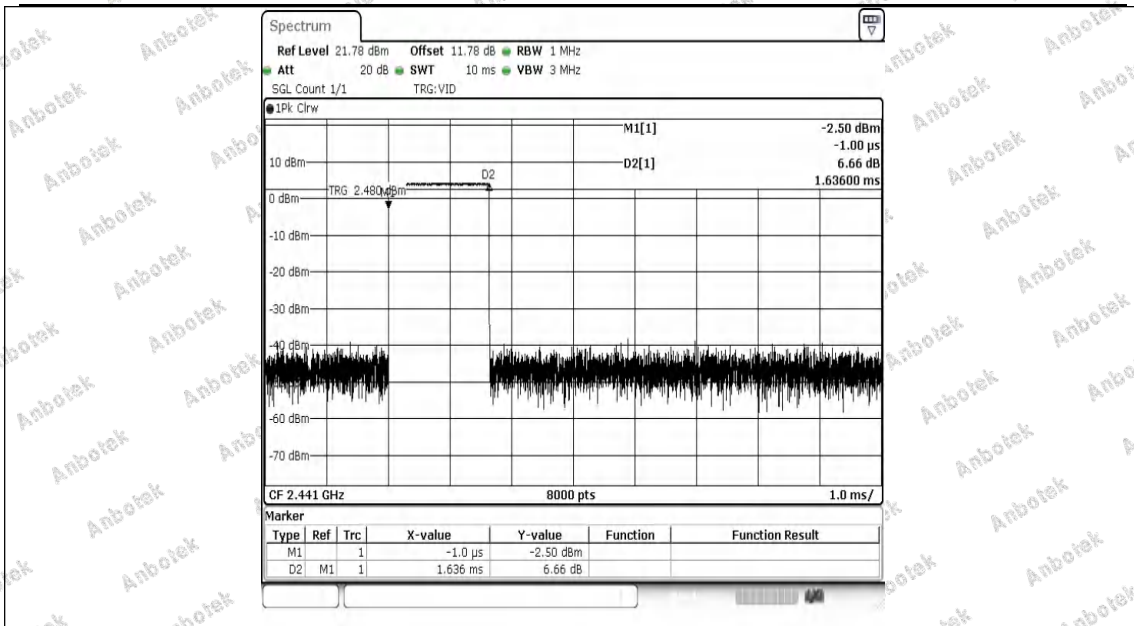


Test Graphs

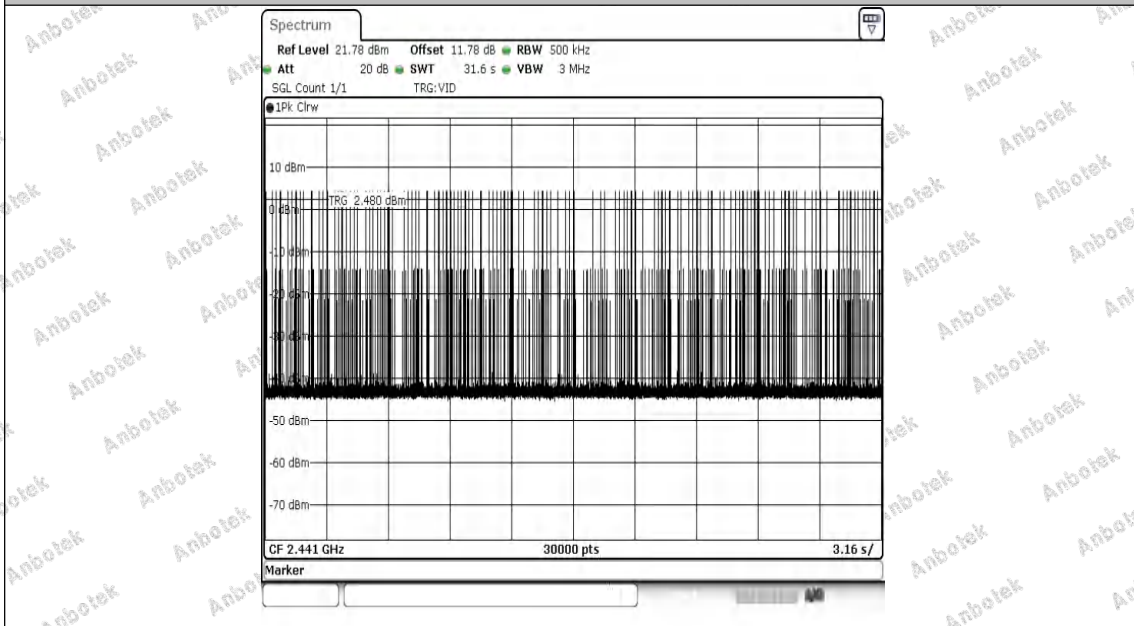


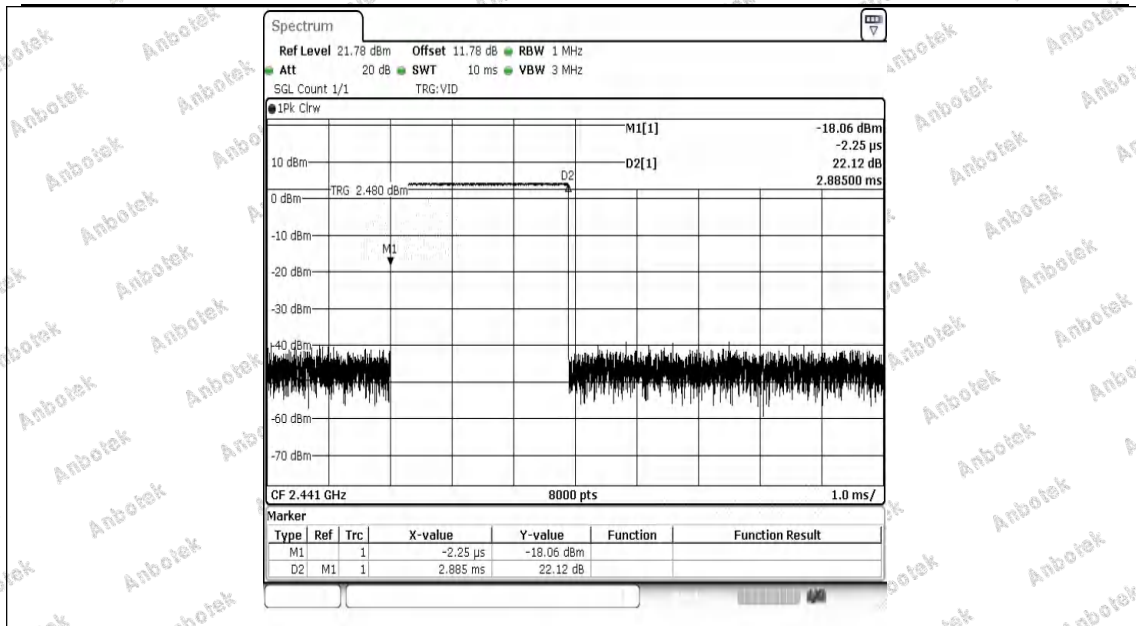
DH1-Ant1-Hop-PASS



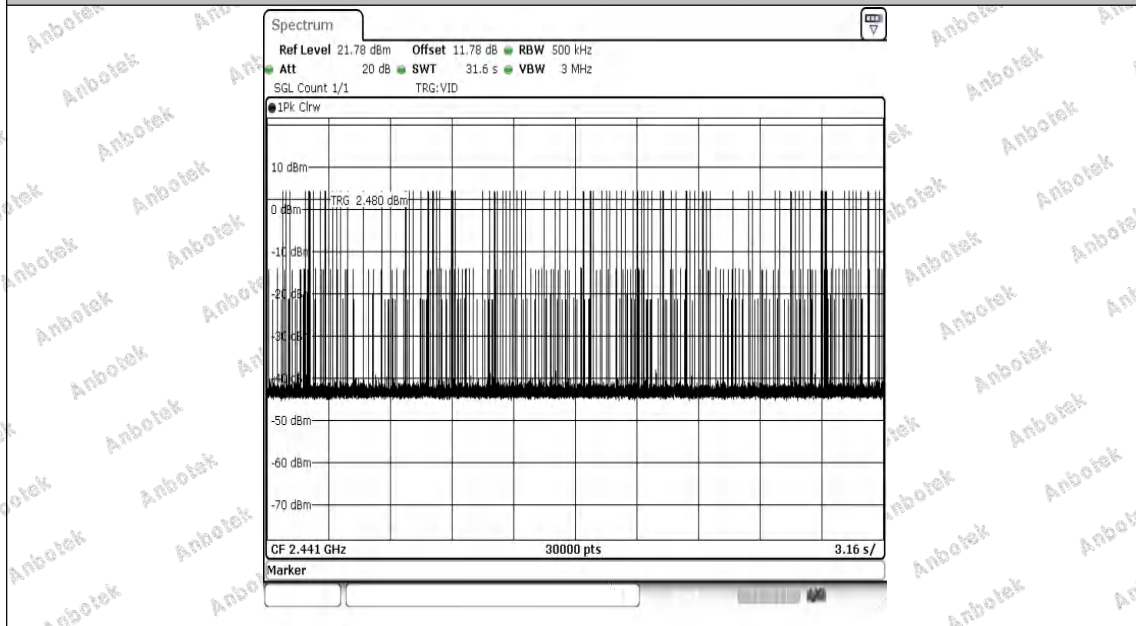


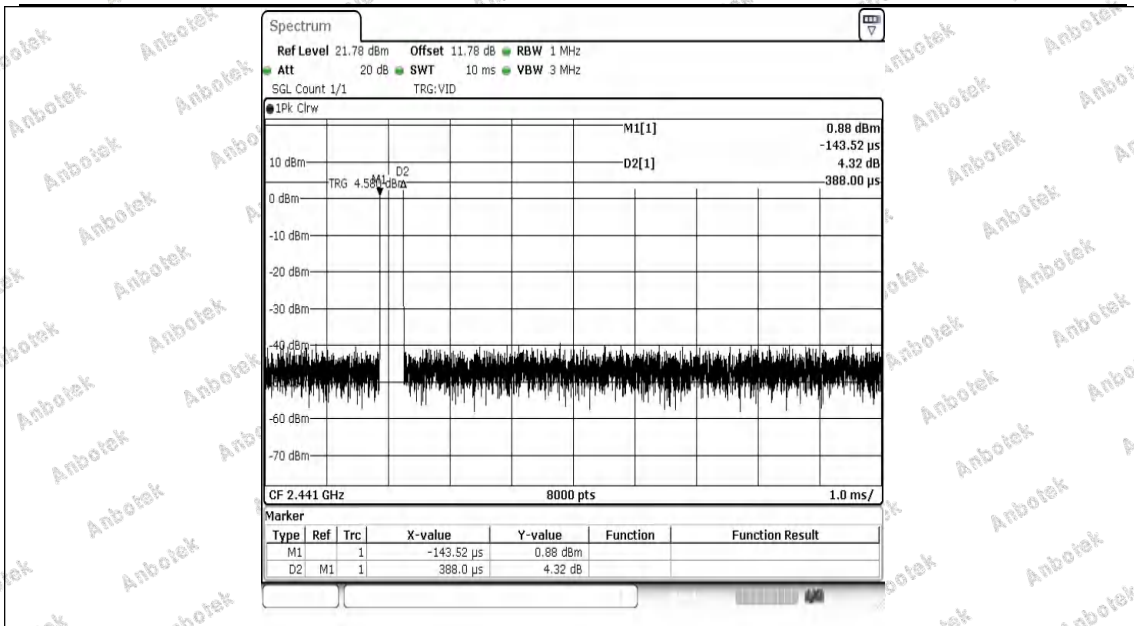
DH3-Ant1-Hop-PASS



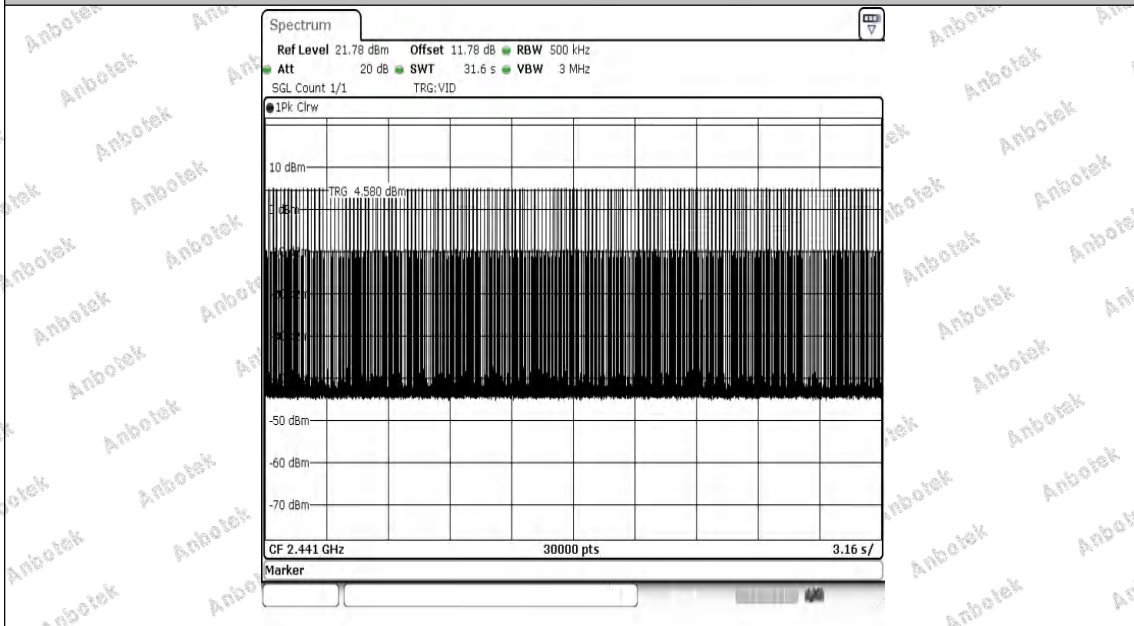


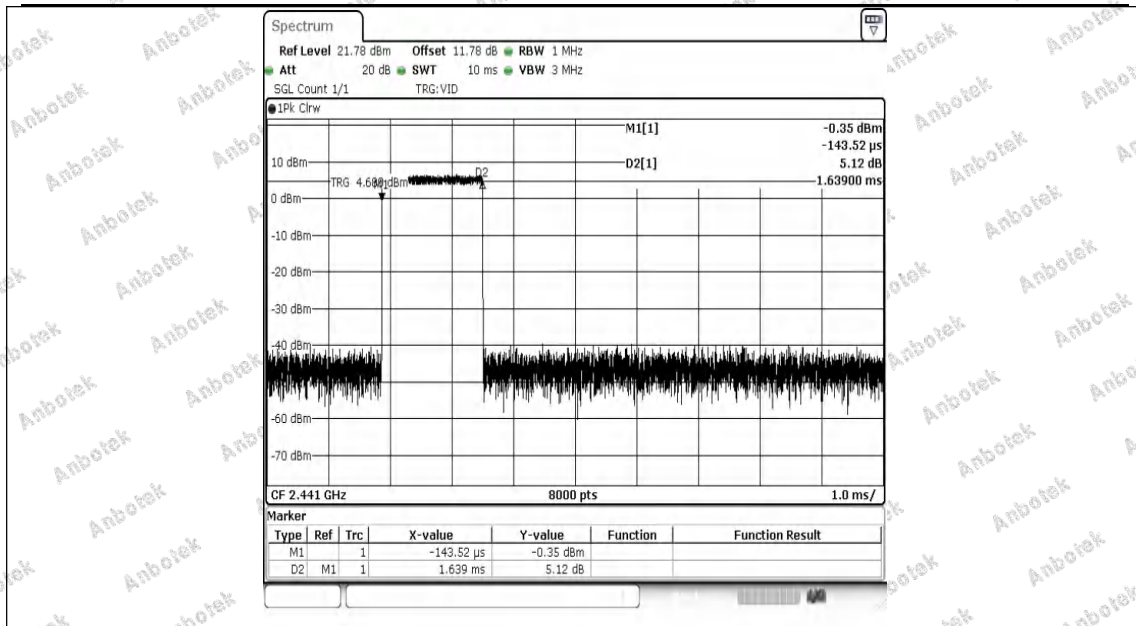
DH5-Ant1-Hop-PASS



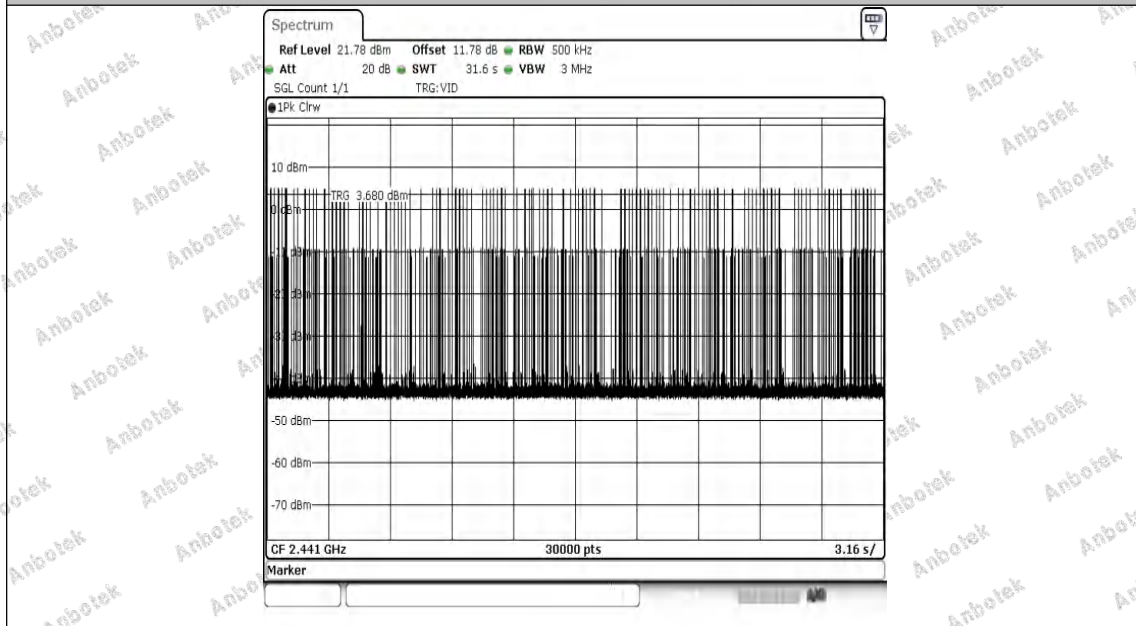


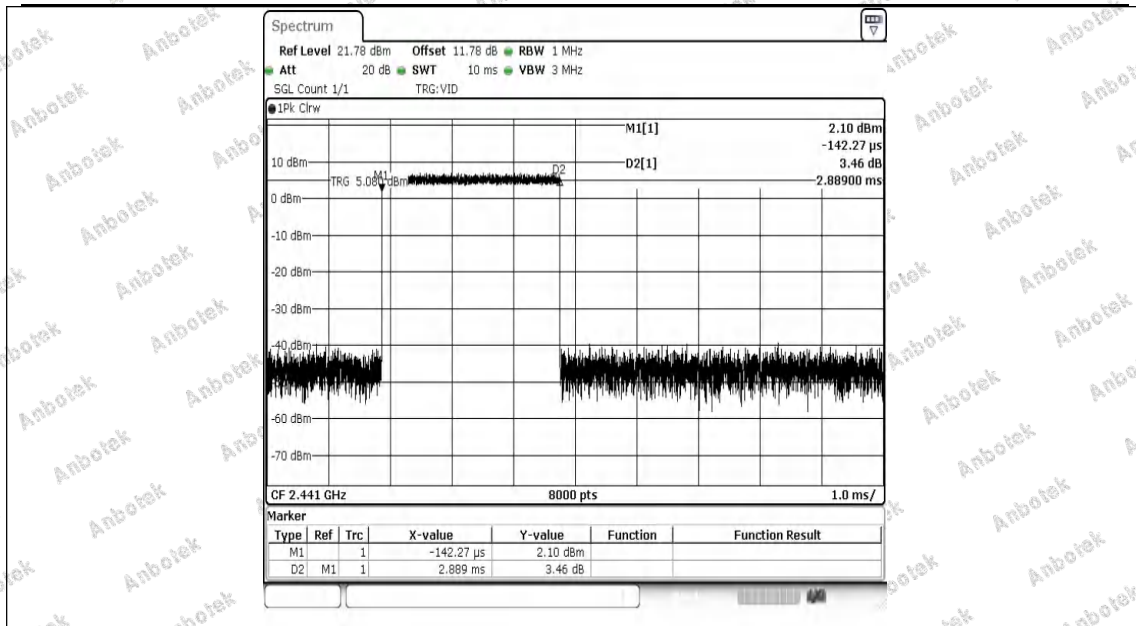
2DH1-Ant1-Hop-PASS



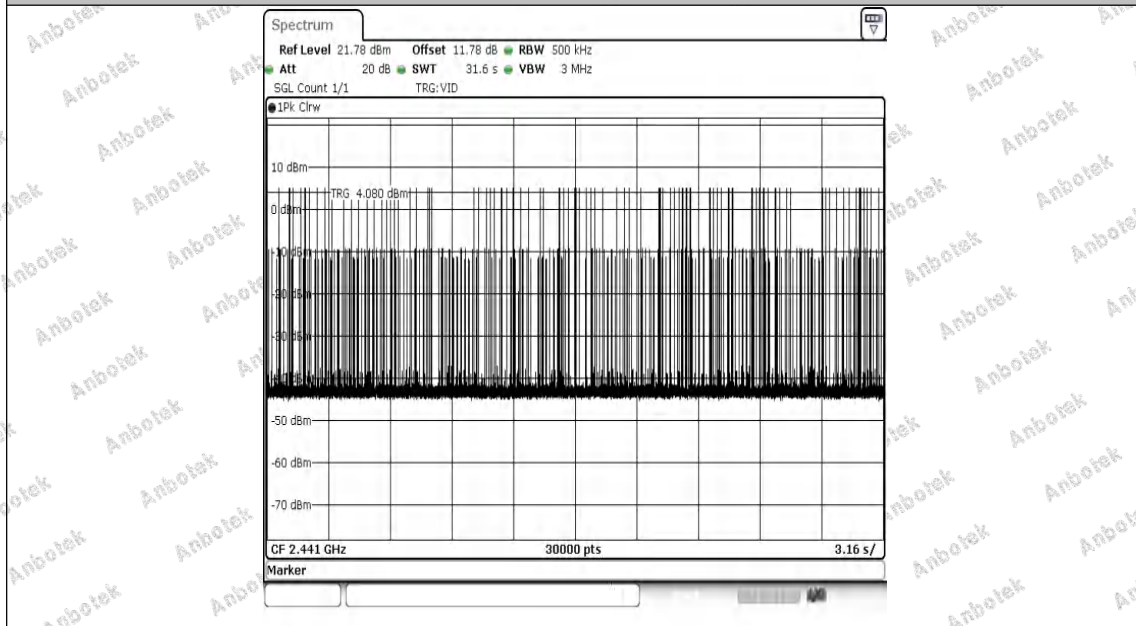


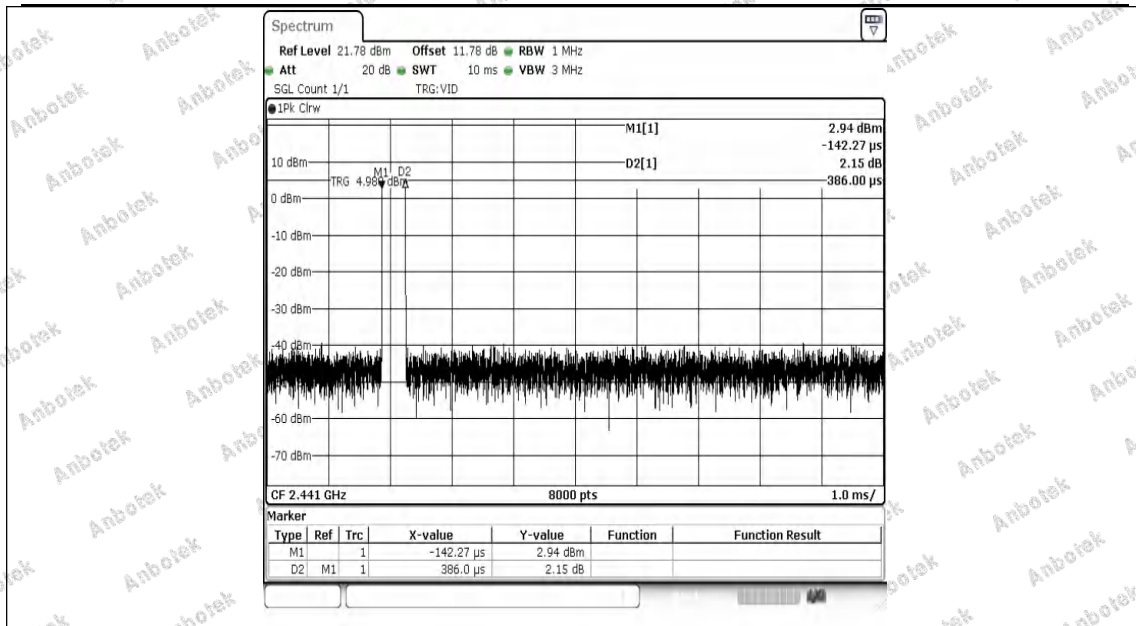
2DH3-Ant1-Hop-PASS



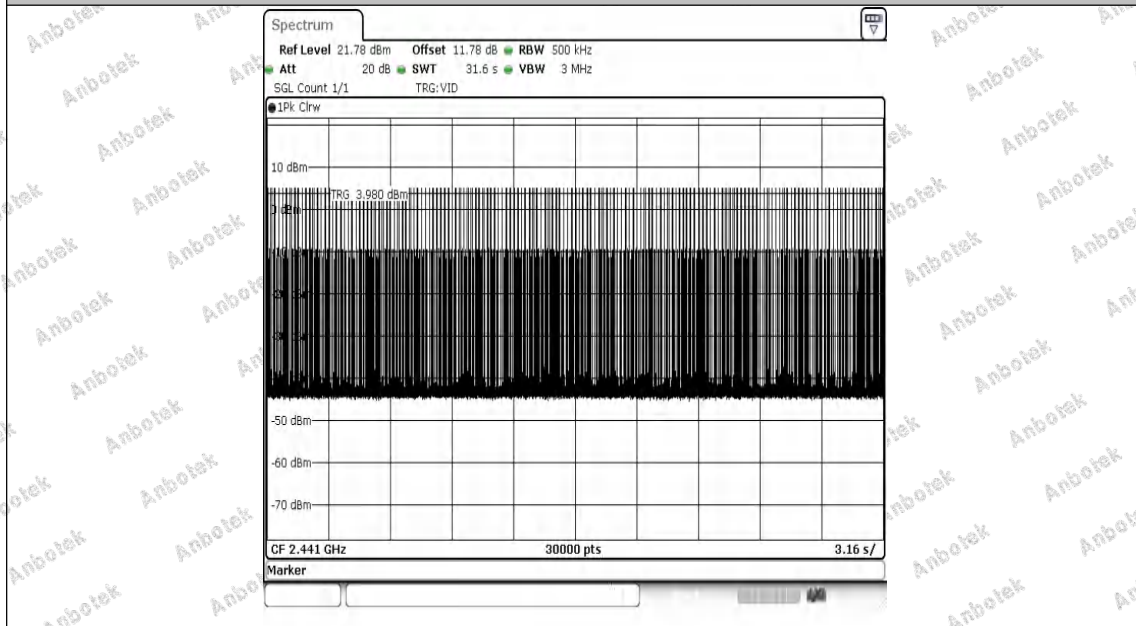


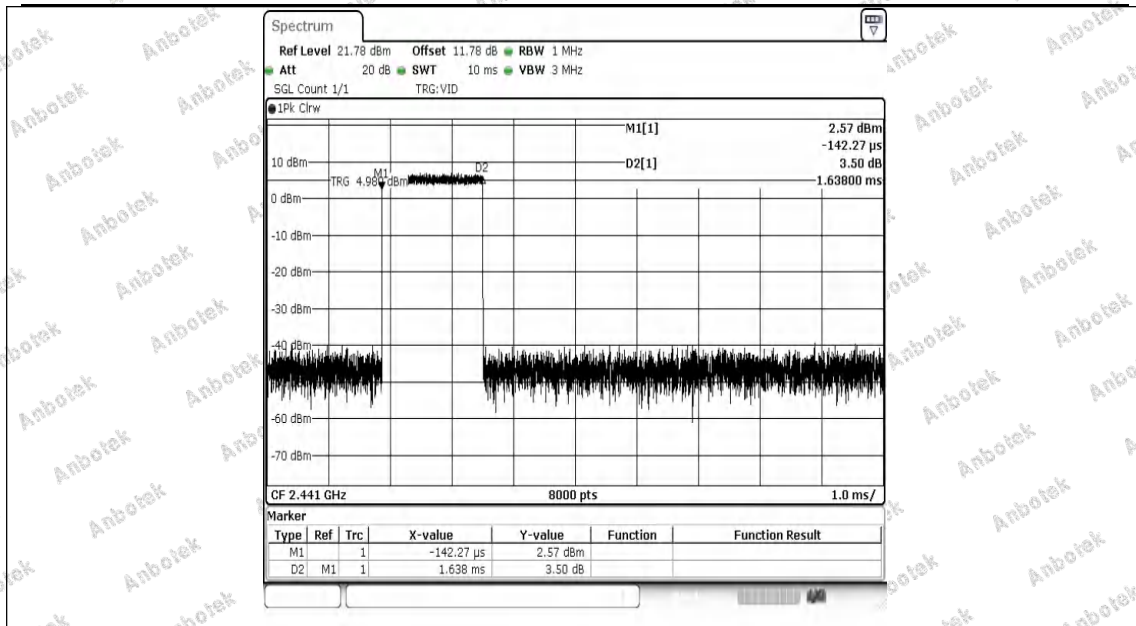
2DH5-Ant1-Hop-PASS



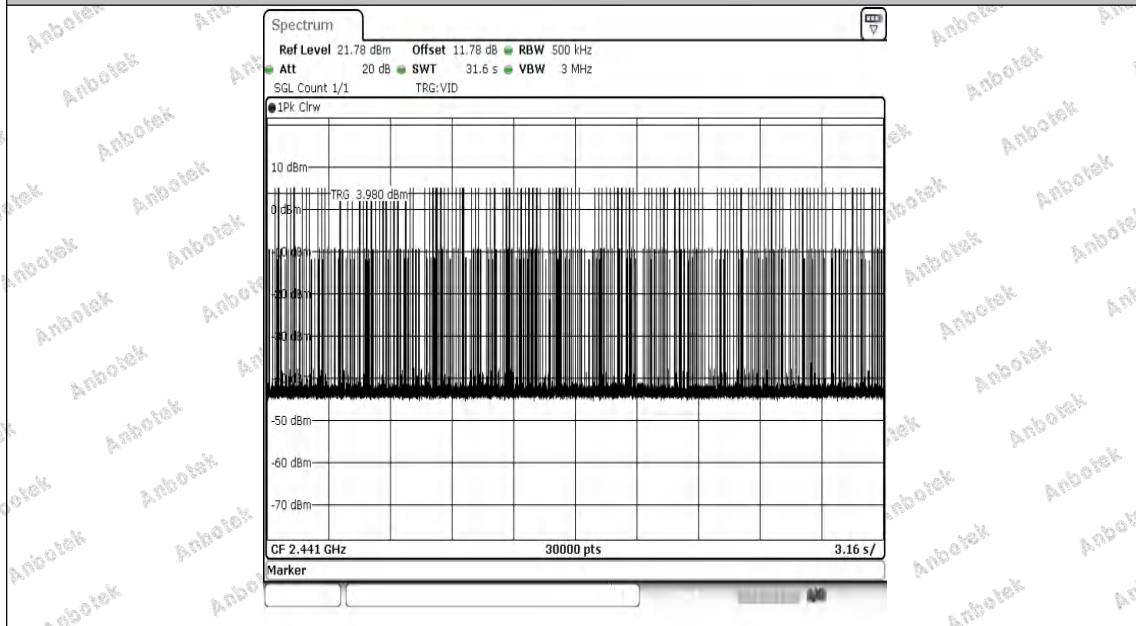


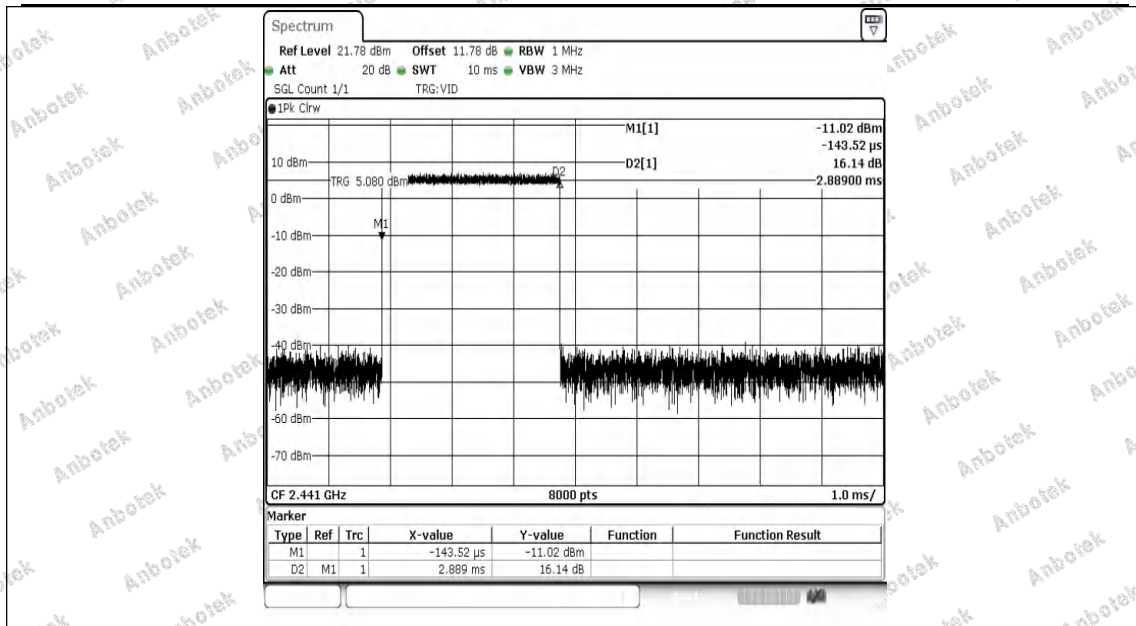
3DH1-Ant1-Hop-PASS



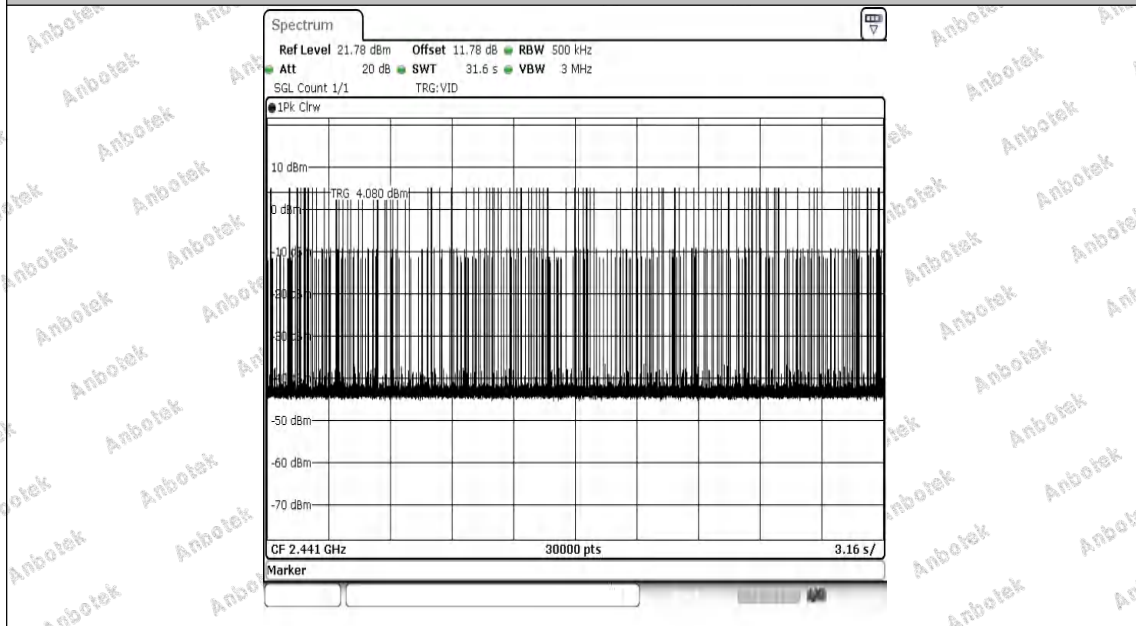


3DH3-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS



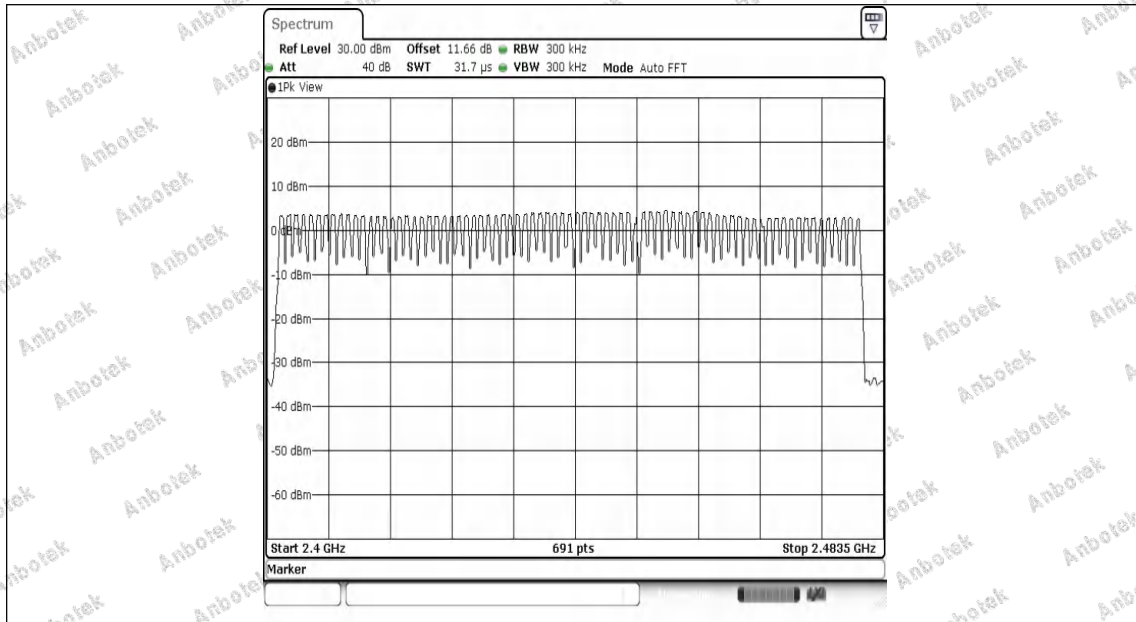
Appendix F: Number of hopping channels

Test Result

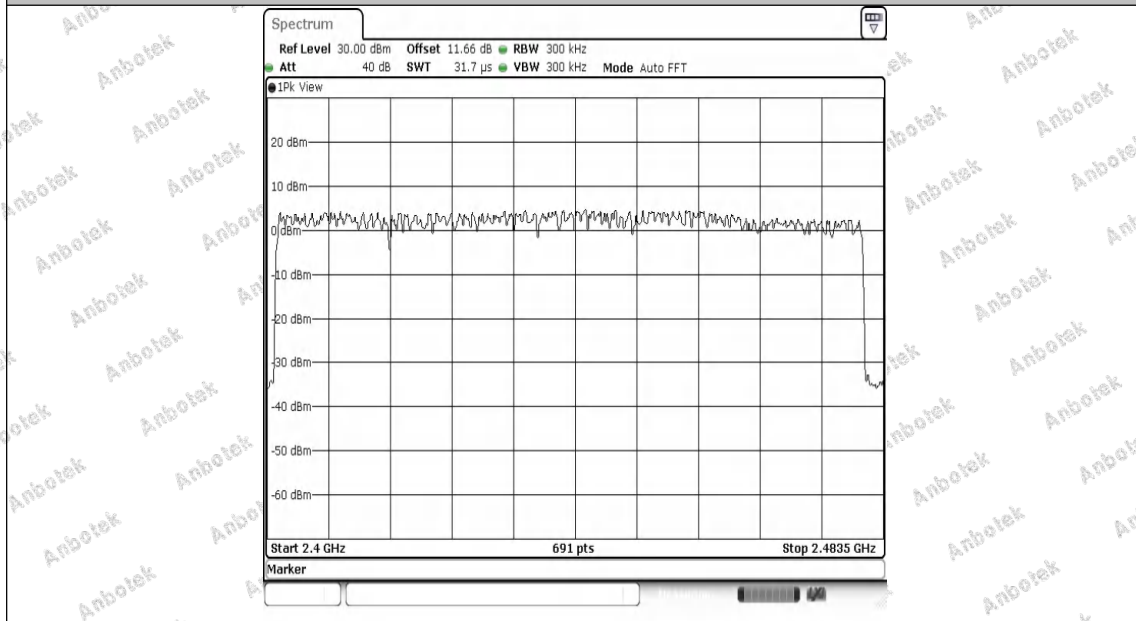
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



Test Graphs

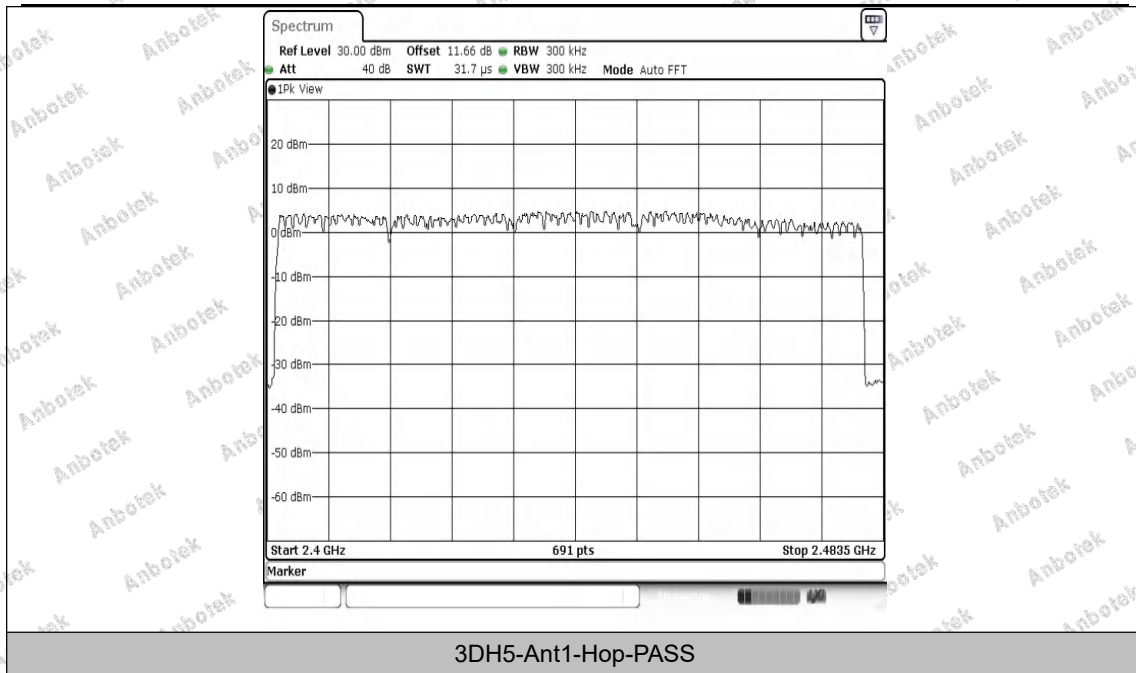


DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS





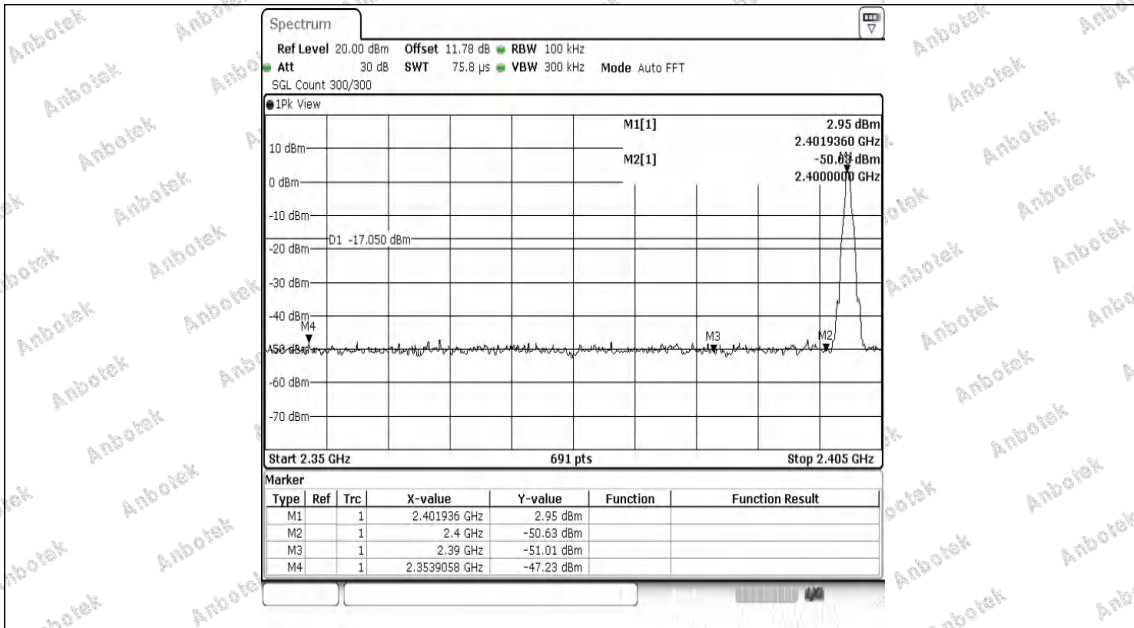
Appendix G: Band edge measurements

Test Result

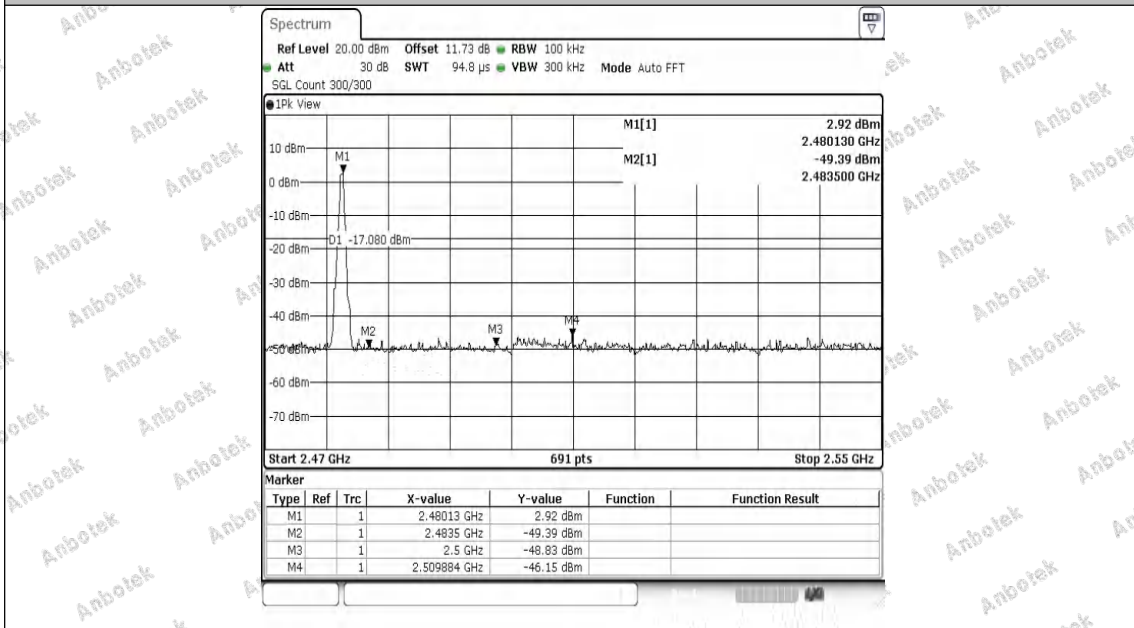
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.95	-47.23	≤-17.05	PASS
DH5	Ant1	High	2480	2.92	-46.15	≤-17.08	PASS
DH5	Ant1	Low	Hop_2402	2.96	-47.07	≤-17.04	PASS
DH5	Ant1	High	Hop_2480	2.23	-46.43	≤-17.77	PASS
2DH5	Ant1	Low	2402	3.84	-47.16	≤-16.16	PASS
2DH5	Ant1	High	2480	2.14	-46.57	≤-17.86	PASS
2DH5	Ant1	Low	Hop_2402	2.40	-47.3	≤-17.6	PASS
2DH5	Ant1	High	Hop_2480	0.39	-44.98	≤-19.61	PASS
3DH5	Ant1	Low	2402	3.81	-47.35	≤-16.19	PASS
3DH5	Ant1	High	2480	2.20	-45.39	≤-17.8	PASS
3DH5	Ant1	Low	Hop_2402	3.73	-47.43	≤-16.27	PASS
3DH5	Ant1	High	Hop_2480	2.21	-46.52	≤-17.79	PASS



Test Graphs

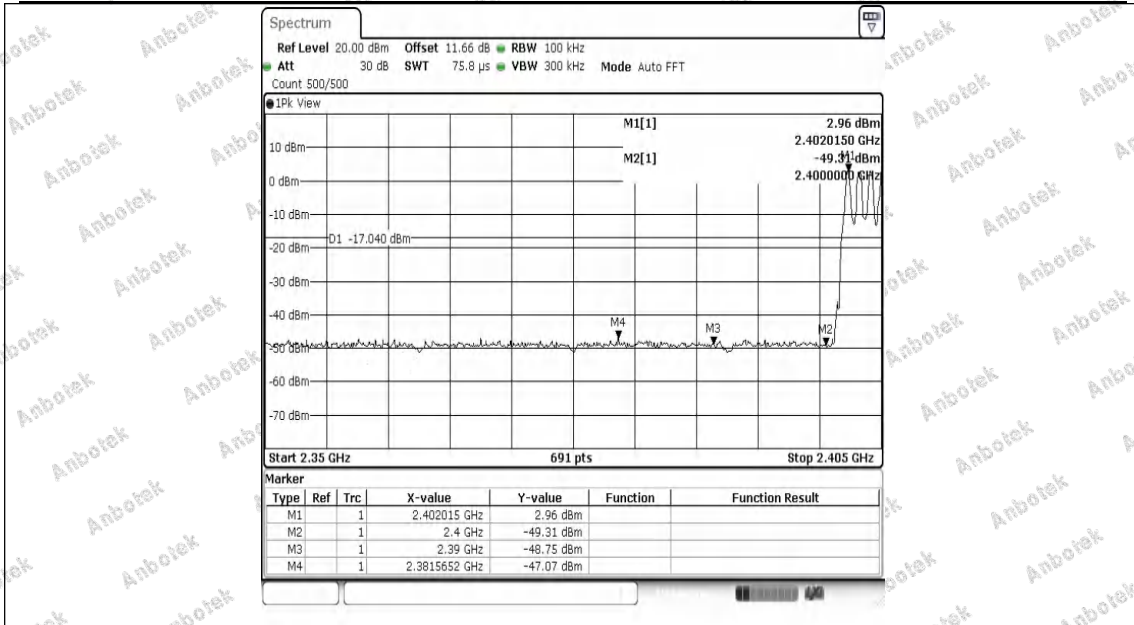


DH5-Ant1-2402-PASS

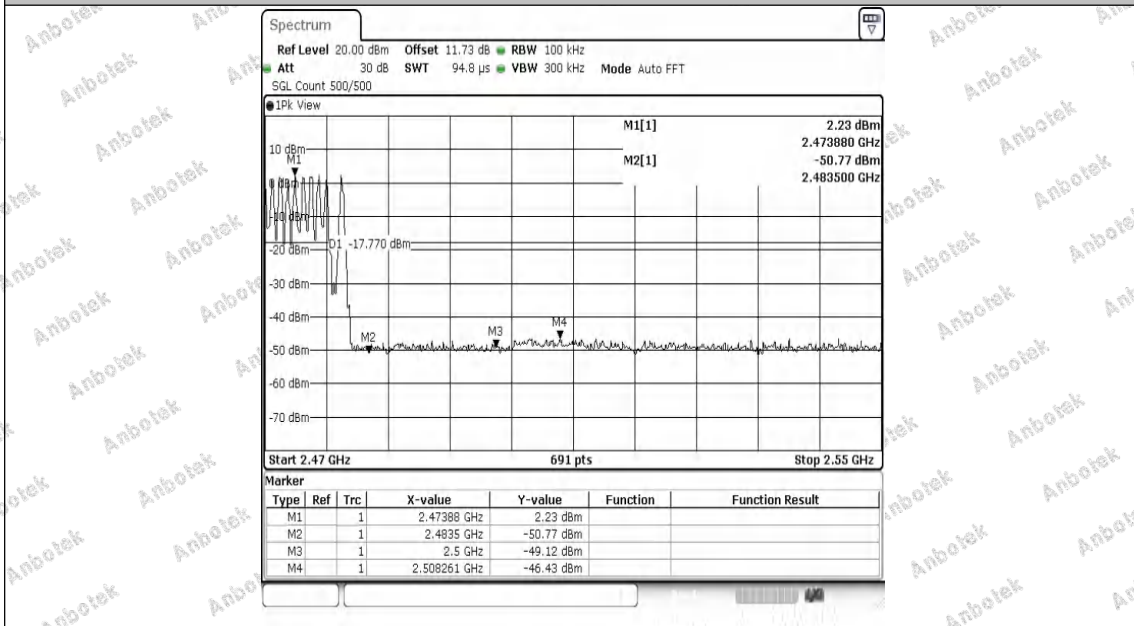


DH5-Ant1-2480-PASS



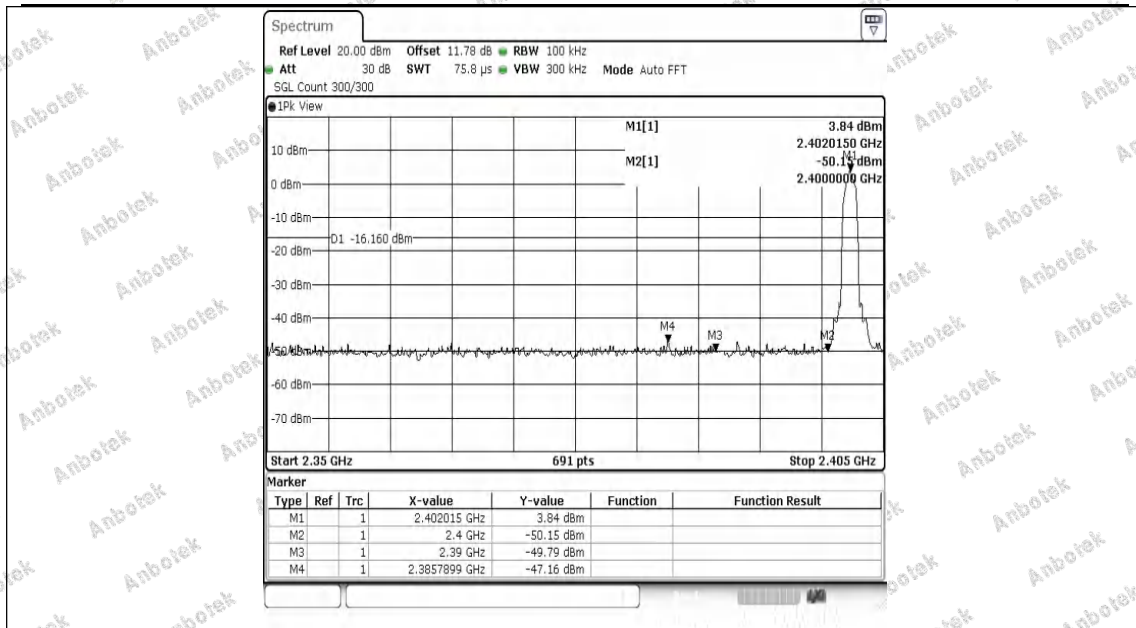


DH5-Ant1-Hop_2402-PASS

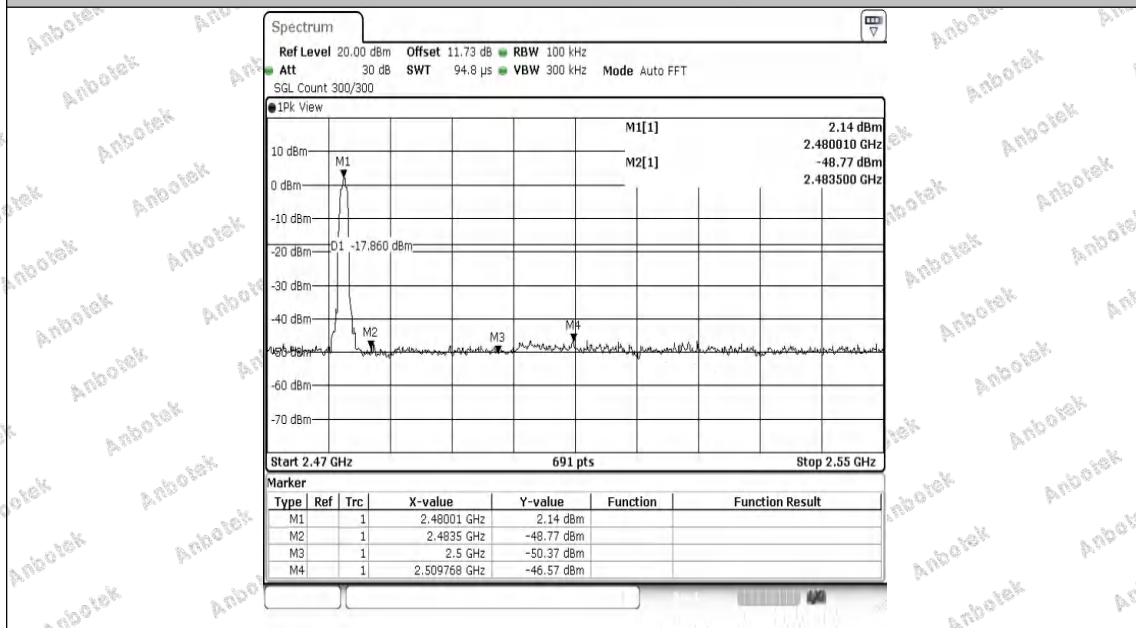


DH5-Ant1-Hop_2480-PASS



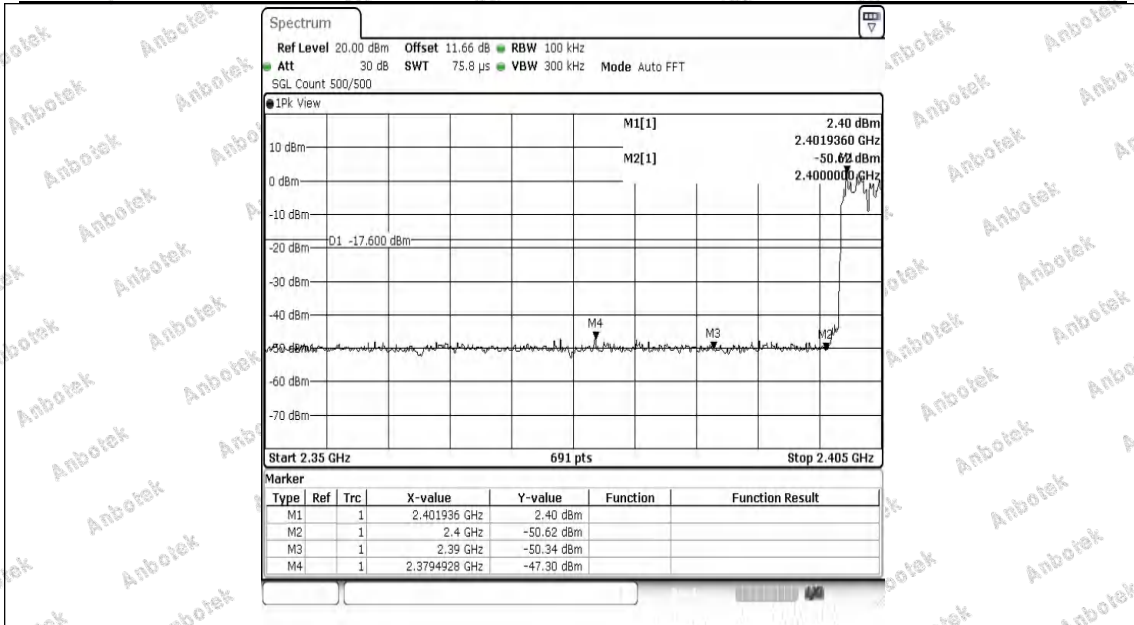


2DH5-Ant1-2402-PASS

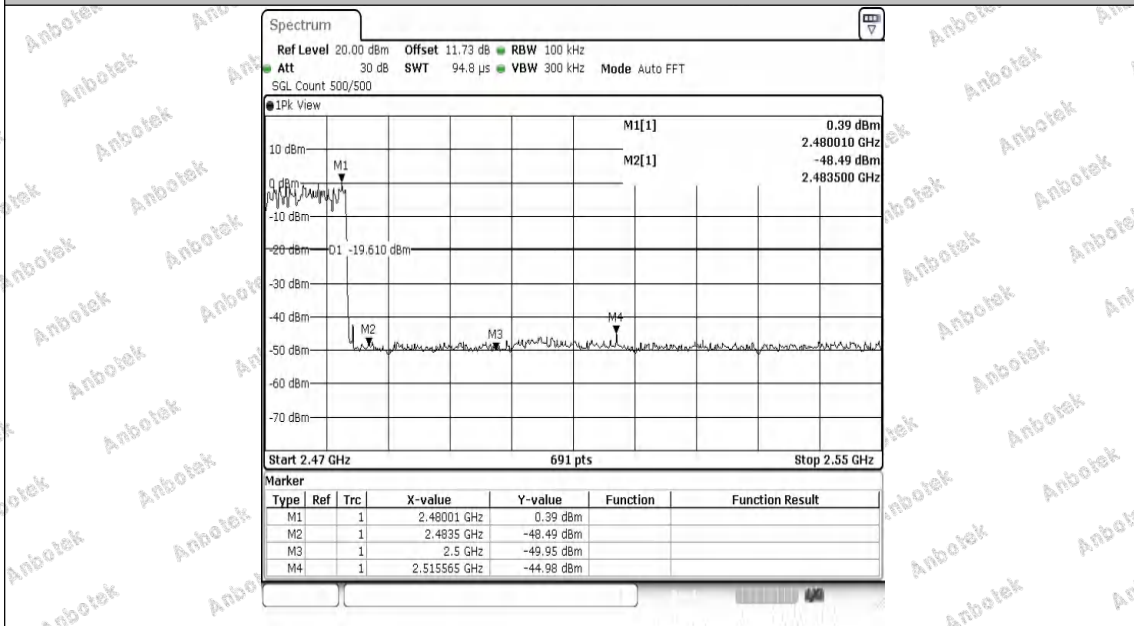


2DH5-Ant1-2480-PASS



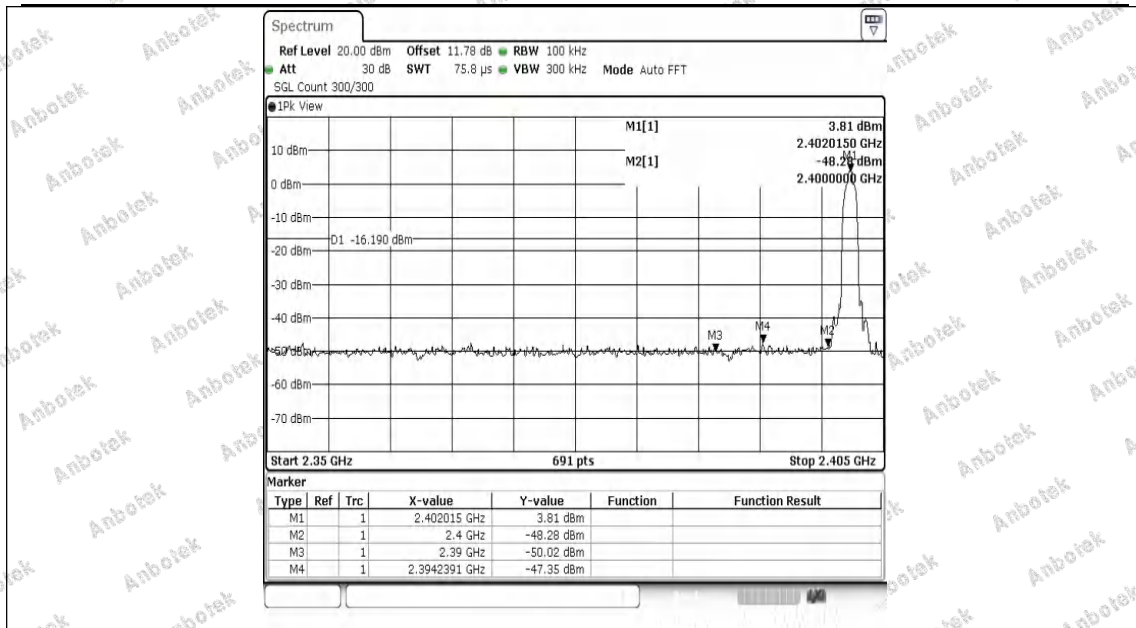


2DH5-Ant1-Hop_2402-PASS

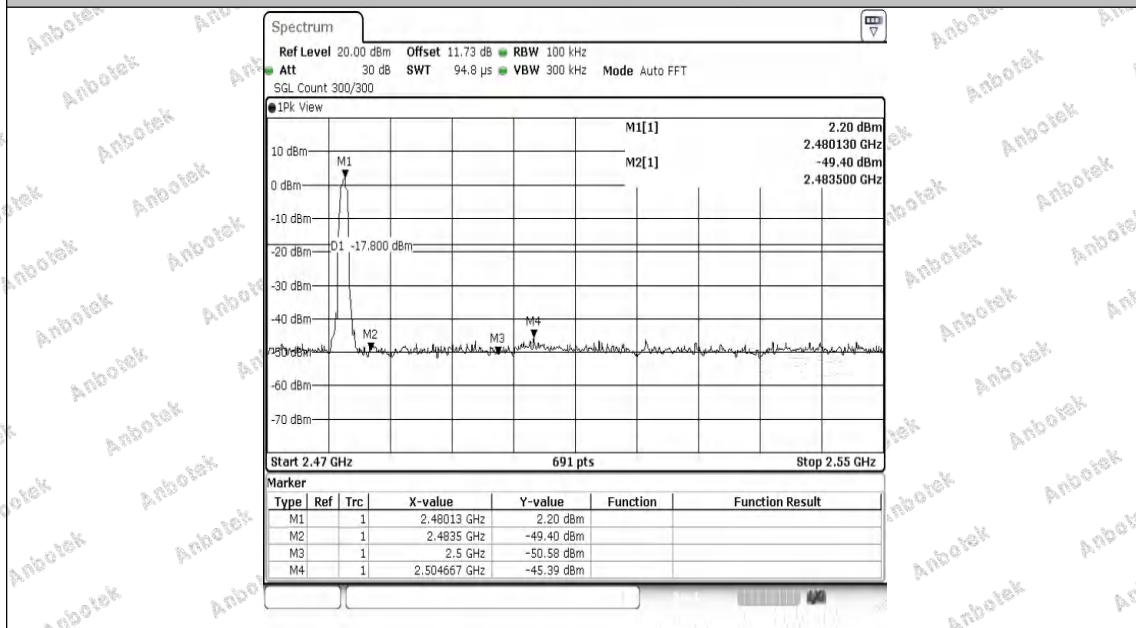


2DH5-Ant1-Hop_2480-PASS



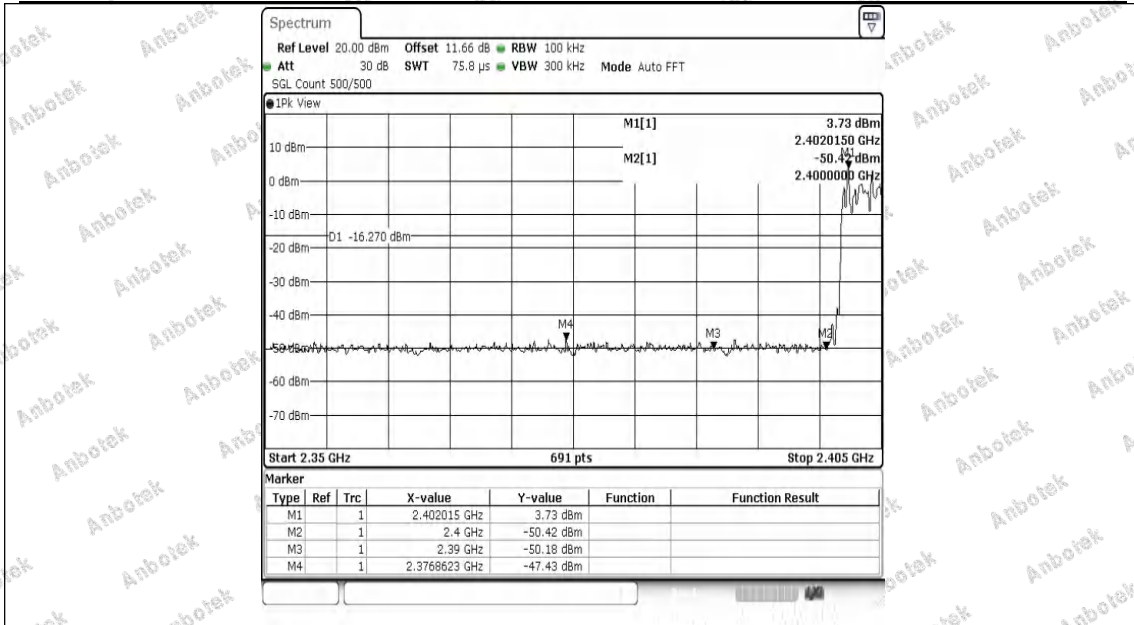


3DH5-Ant1-2402-PASS

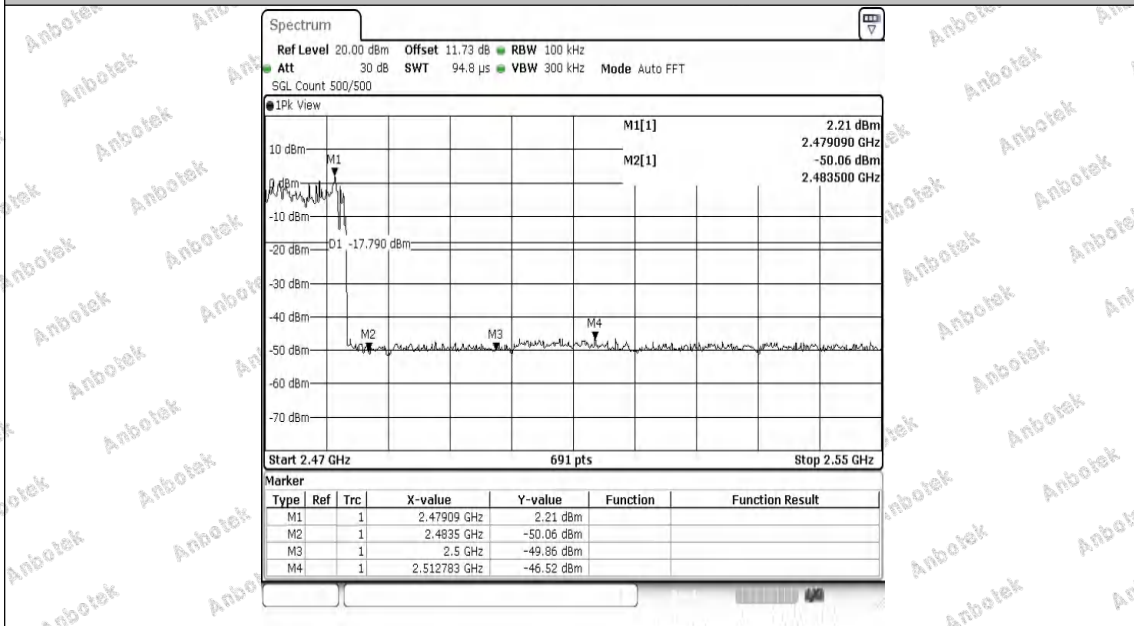


3DH5-Ant1-2480-PASS





3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS



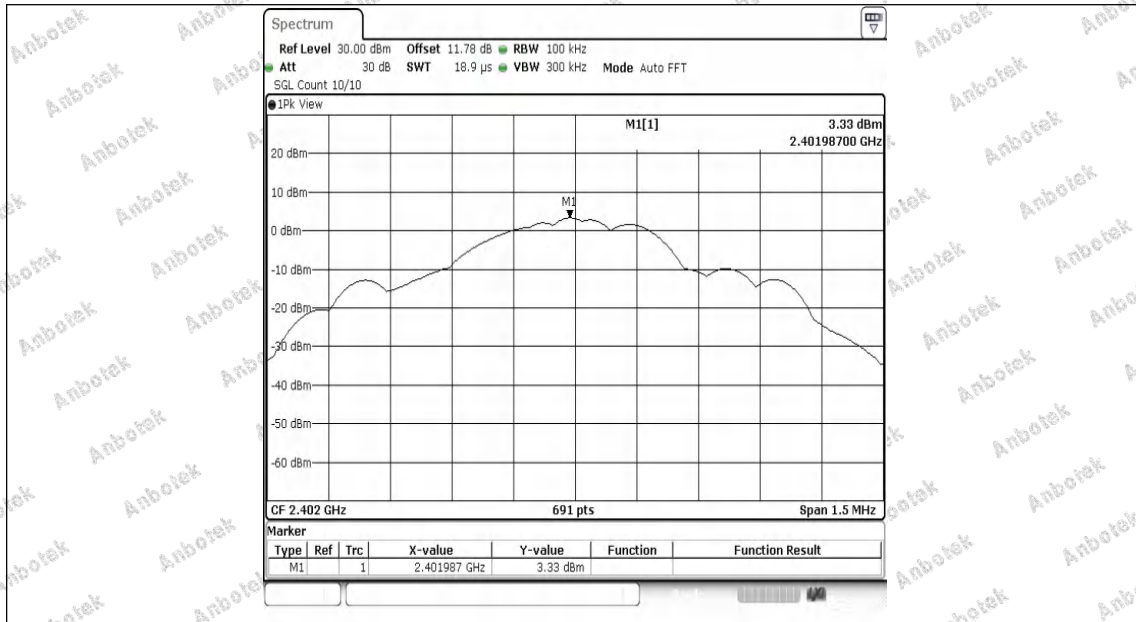
Appendix H: Conducted Spurious Emission

Test Result

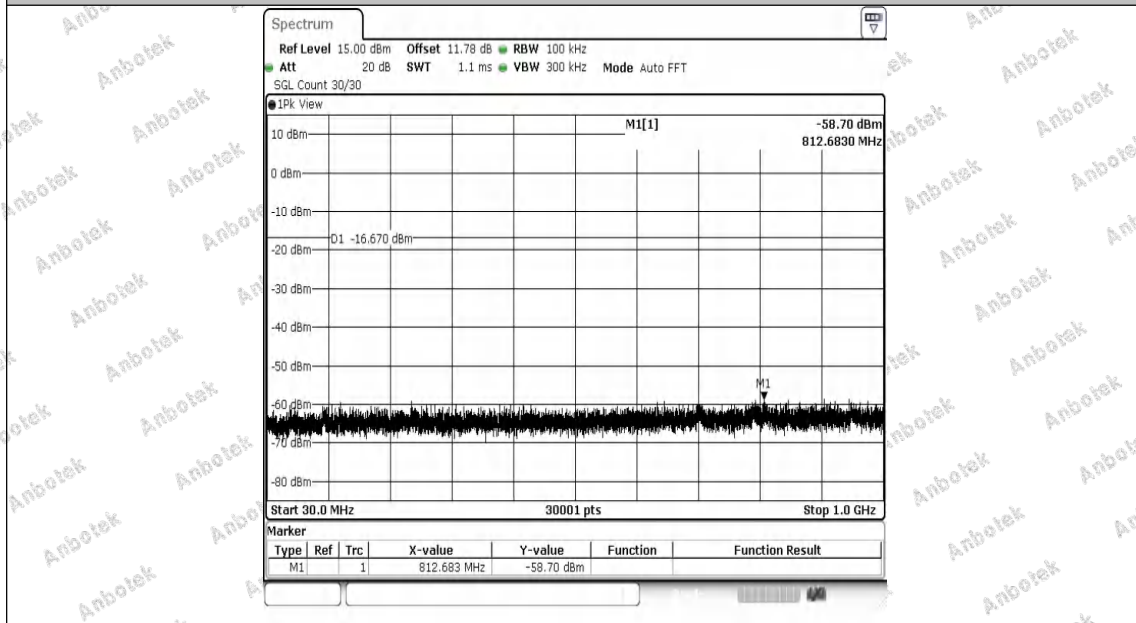
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	3.33	3.33	---	PASS
DH5	Ant1	2402	30~1000	3.33	-58.7	≤-16.67	PASS
DH5	Ant1	2402	1000~26500	3.33	-43.47	≤-16.67	PASS
DH5	Ant1	2441	0~Reference	2.99	2.99	---	PASS
DH5	Ant1	2441	30~1000	2.99	-57.12	≤-17.01	PASS
DH5	Ant1	2441	1000~26500	2.99	-43.86	≤-17.01	PASS
DH5	Ant1	2480	0~Reference	2.21	2.21	---	PASS
DH5	Ant1	2480	30~1000	2.21	-57.82	≤-17.79	PASS
DH5	Ant1	2480	1000~26500	2.21	-44.16	≤-17.79	PASS
2DH5	Ant1	2402	0~Reference	0.59	0.59	---	PASS
2DH5	Ant1	2402	30~1000	0.59	-58.41	≤-19.41	PASS
2DH5	Ant1	2402	1000~26500	0.59	-43.62	≤-19.41	PASS
2DH5	Ant1	2441	0~Reference	1.42	1.42	---	PASS
2DH5	Ant1	2441	30~1000	1.42	-57.84	≤-18.58	PASS
2DH5	Ant1	2441	1000~26500	1.42	-43.41	≤-18.58	PASS
2DH5	Ant1	2480	0~Reference	2.15	2.15	---	PASS
2DH5	Ant1	2480	30~1000	2.15	-58.01	≤-17.85	PASS
2DH5	Ant1	2480	1000~26500	2.15	-44.2	≤-17.85	PASS
3DH5	Ant1	2402	0~Reference	3.49	3.49	---	PASS
3DH5	Ant1	2402	30~1000	3.49	-57.86	≤-16.51	PASS
3DH5	Ant1	2402	1000~26500	3.49	-44.01	≤-16.51	PASS
3DH5	Ant1	2441	0~Reference	4.46	4.46	---	PASS
3DH5	Ant1	2441	30~1000	4.46	-58.09	≤-15.54	PASS
3DH5	Ant1	2441	1000~26500	4.46	-44.33	≤-15.54	PASS
3DH5	Ant1	2480	0~Reference	-0.43	-0.43	---	PASS
3DH5	Ant1	2480	30~1000	-0.43	-58.4	≤-20.43	PASS
3DH5	Ant1	2480	1000~26500	-0.43	-44.27	≤-20.43	PASS



Test Graphs

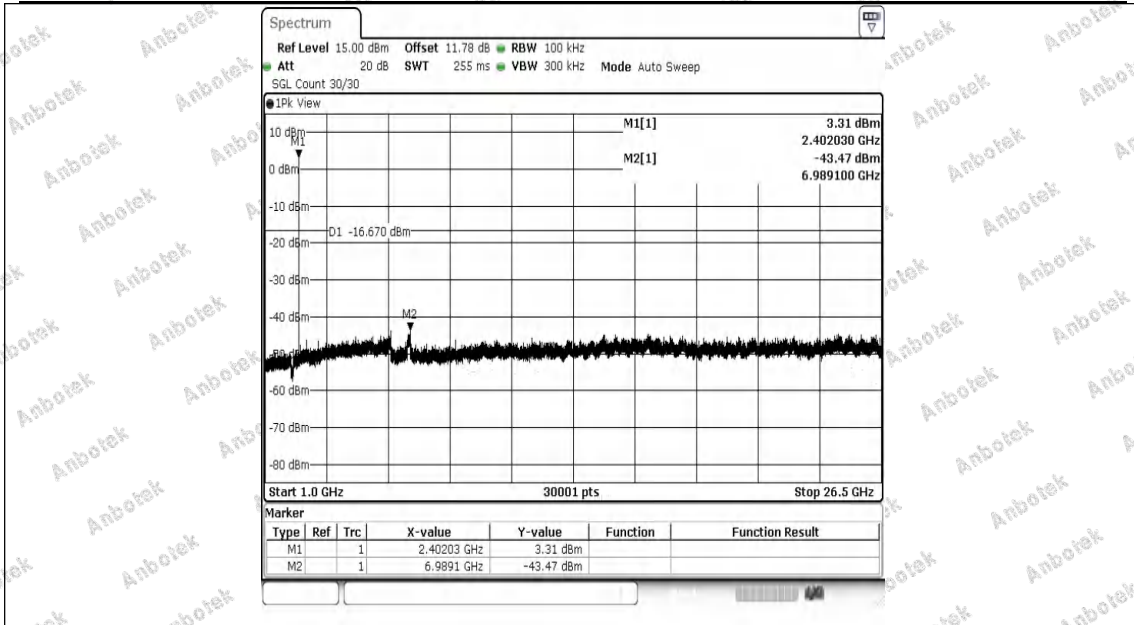


DH5-Ant1-2402-0~Reference-PASS

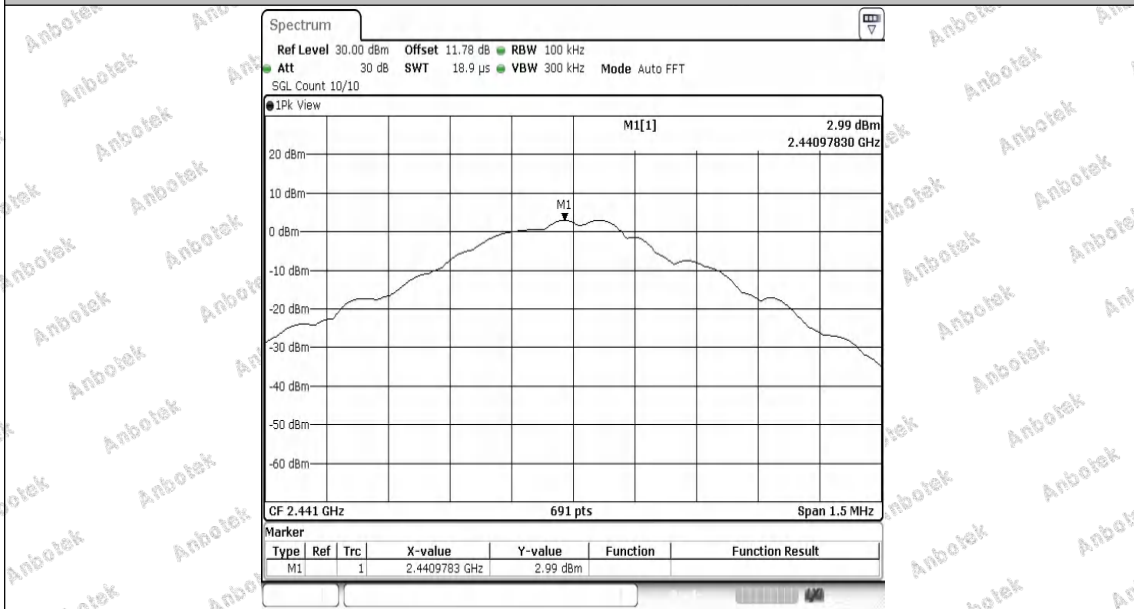


DH5-Ant1-2402-30~1000-PASS



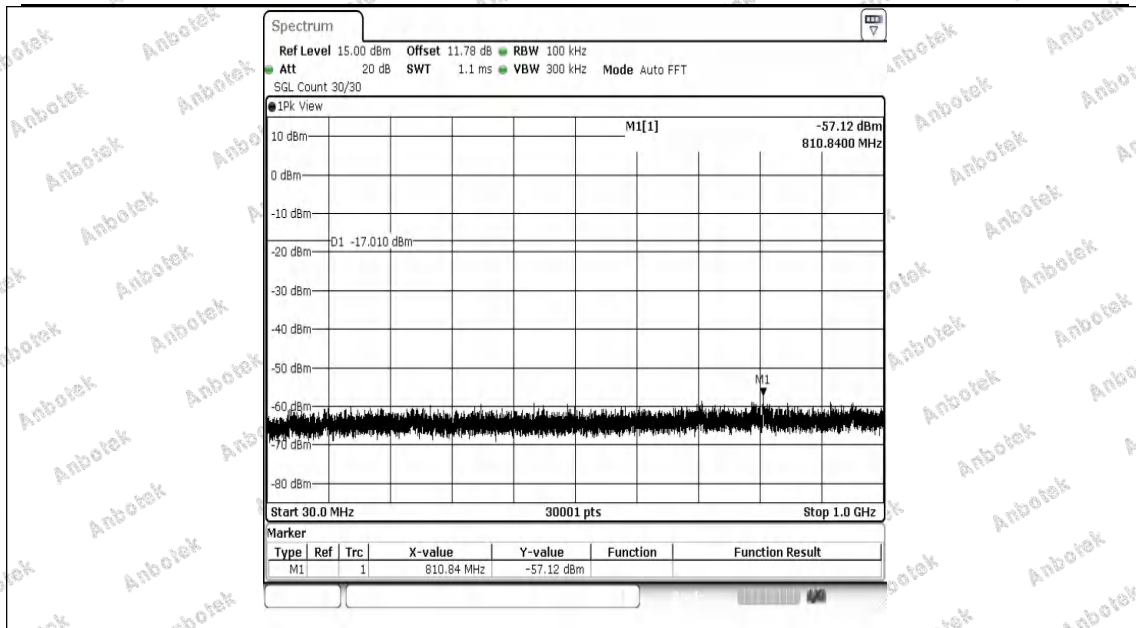


DH5-Ant1-2402-1000~26500-PASS

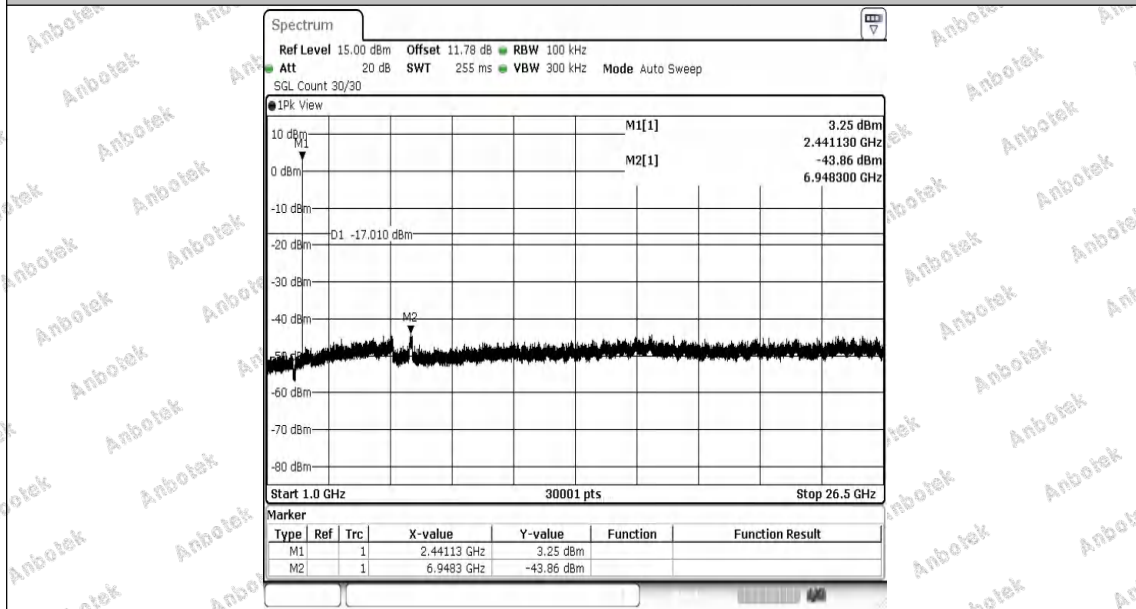


DH5-Ant1-2441-0~Reference-PASS



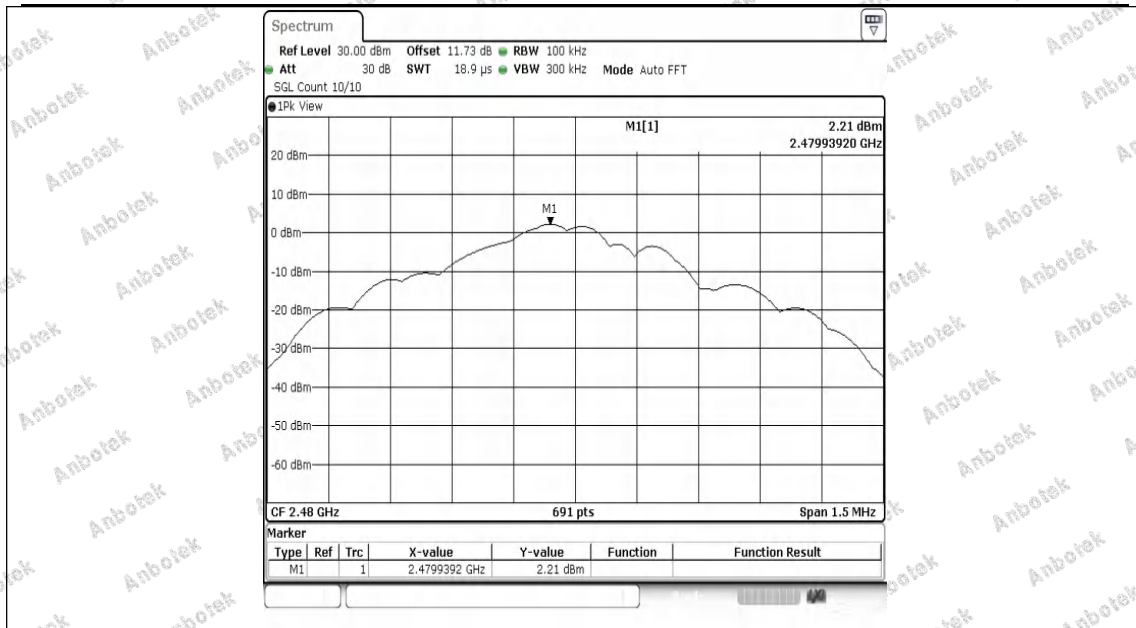


DH5-Ant1-2441-30~1000-PASS

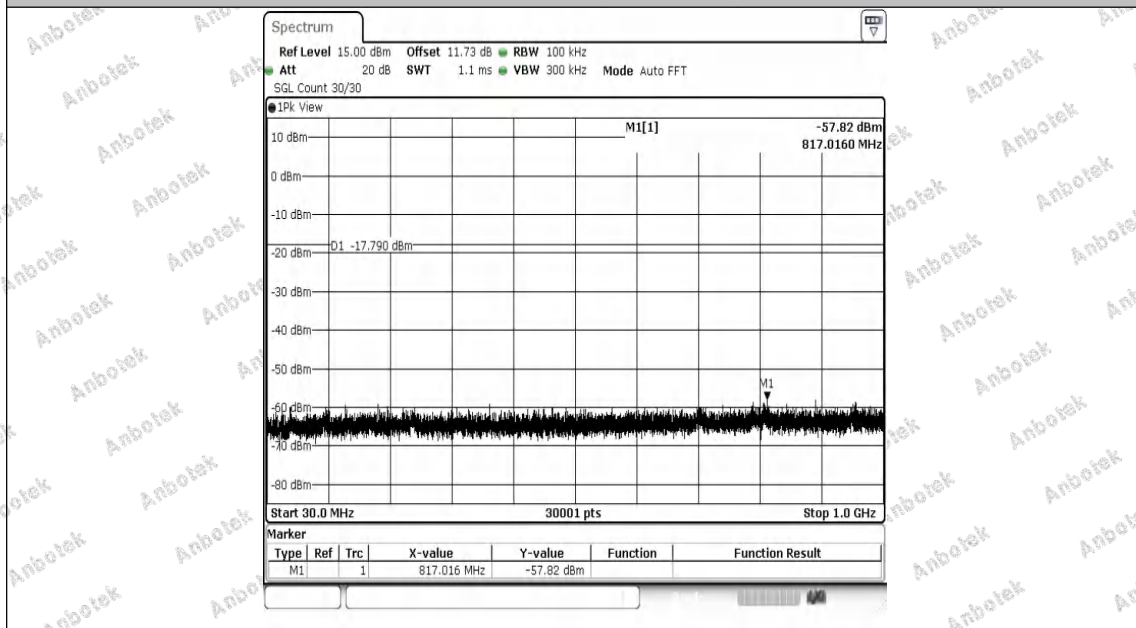


DH5-Ant1-2441-1000~26500-PASS



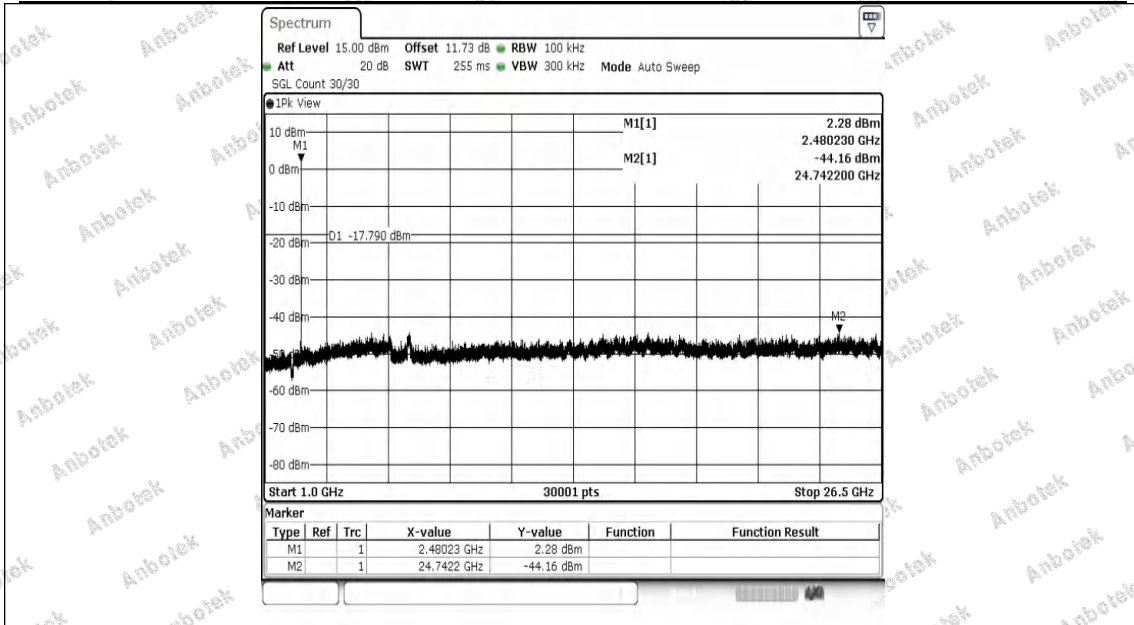


DH5-Ant1-2480-0~Reference-PASS

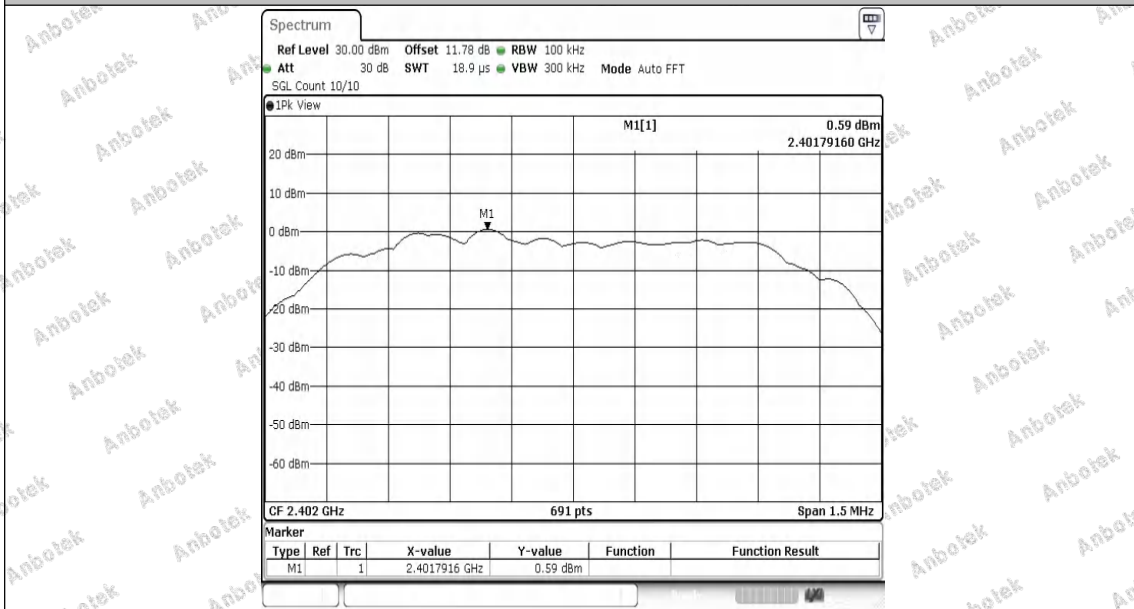


DH5-Ant1-2480-30~1000-PASS



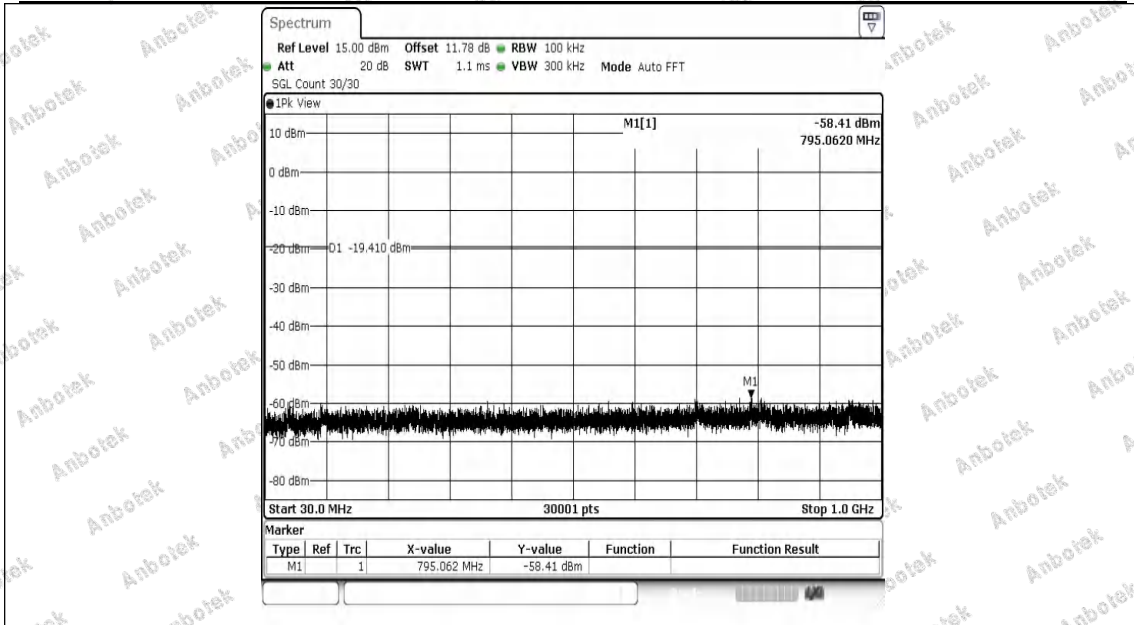


DH5-Ant1-2480-1000~26500-PASS

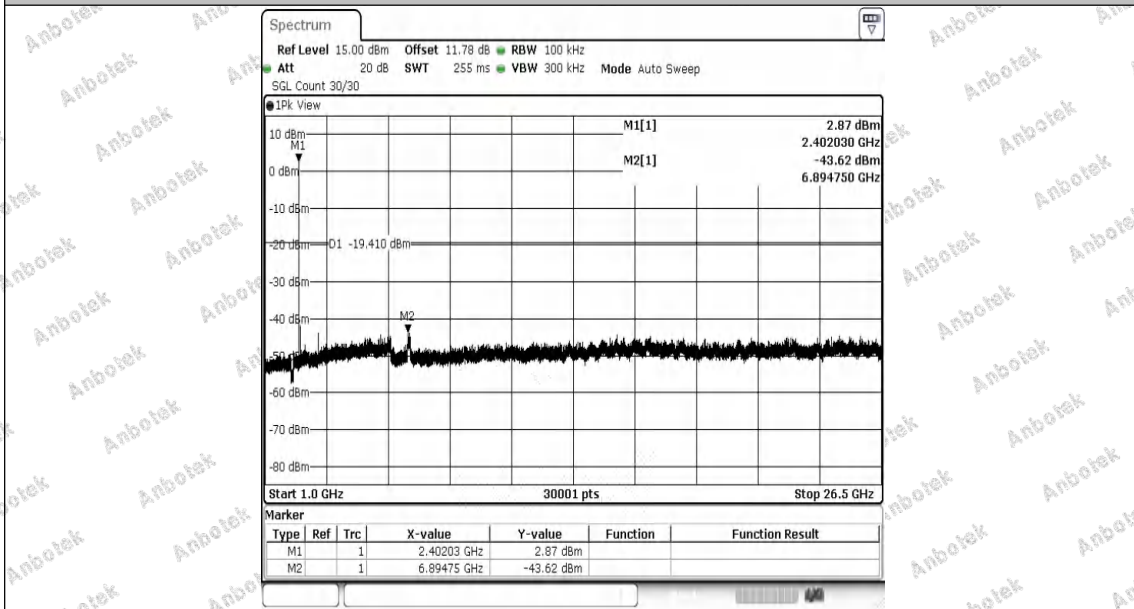


2DH5-Ant1-2402-0~Reference-PASS



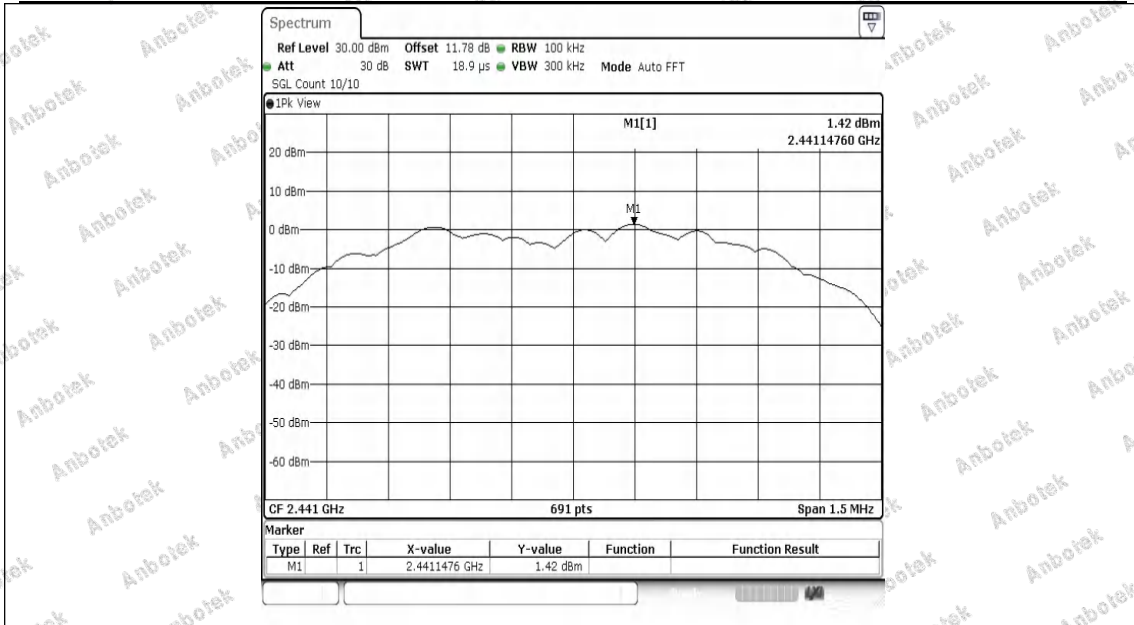


2DH5-Ant1-2402-30~1000-PASS

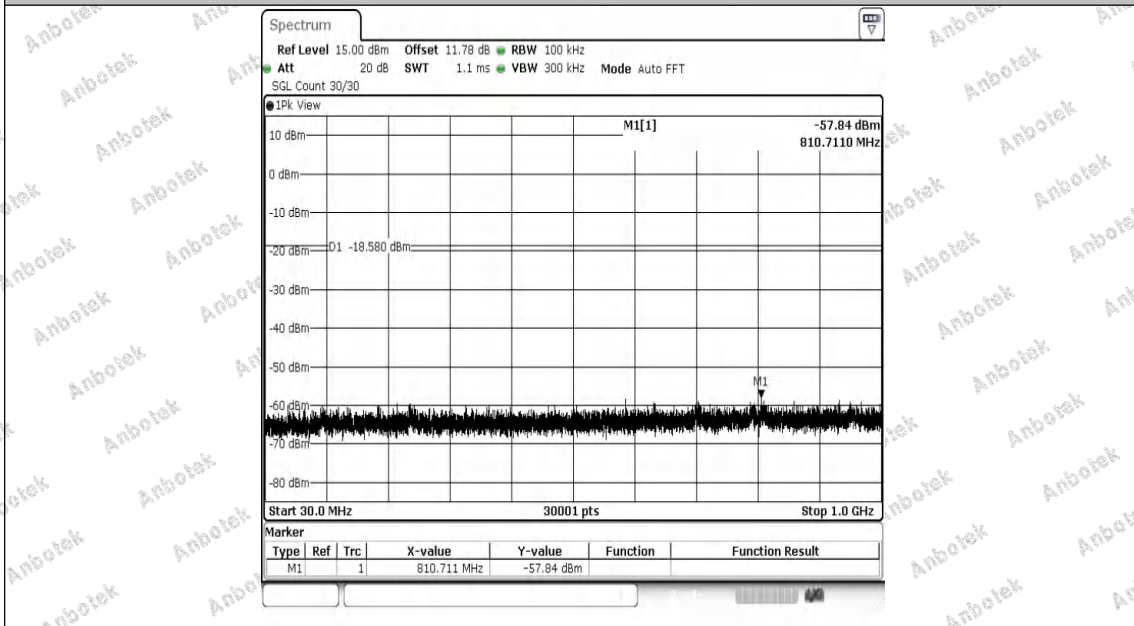


2DH5-Ant1-2402-1000~26500-PASS



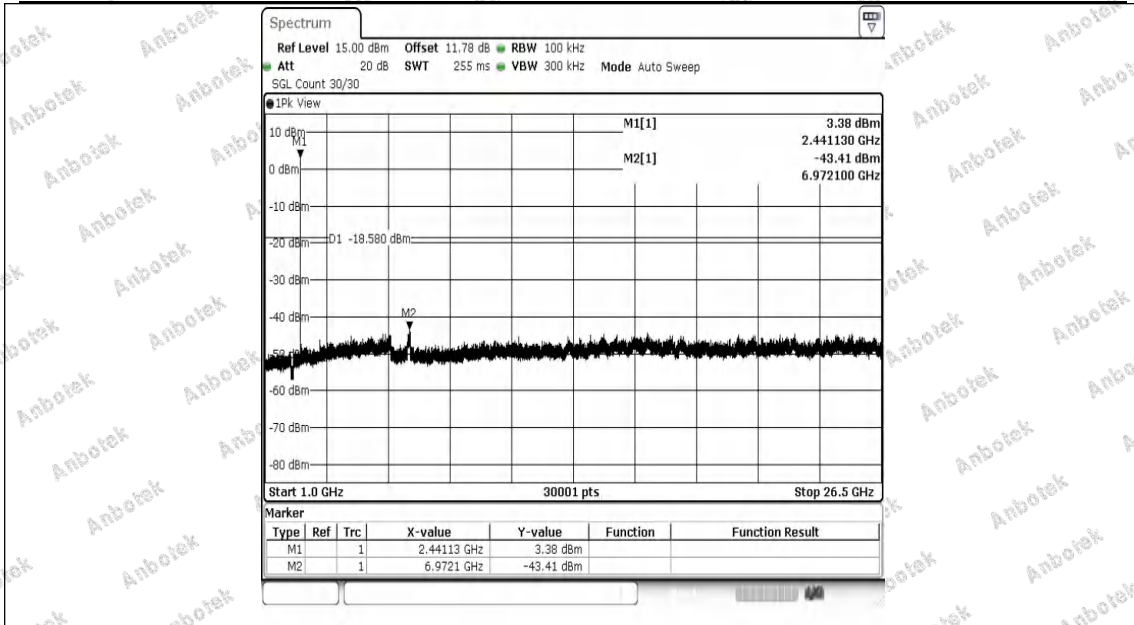


2DH5-Ant1-2441-0~Reference-PASS

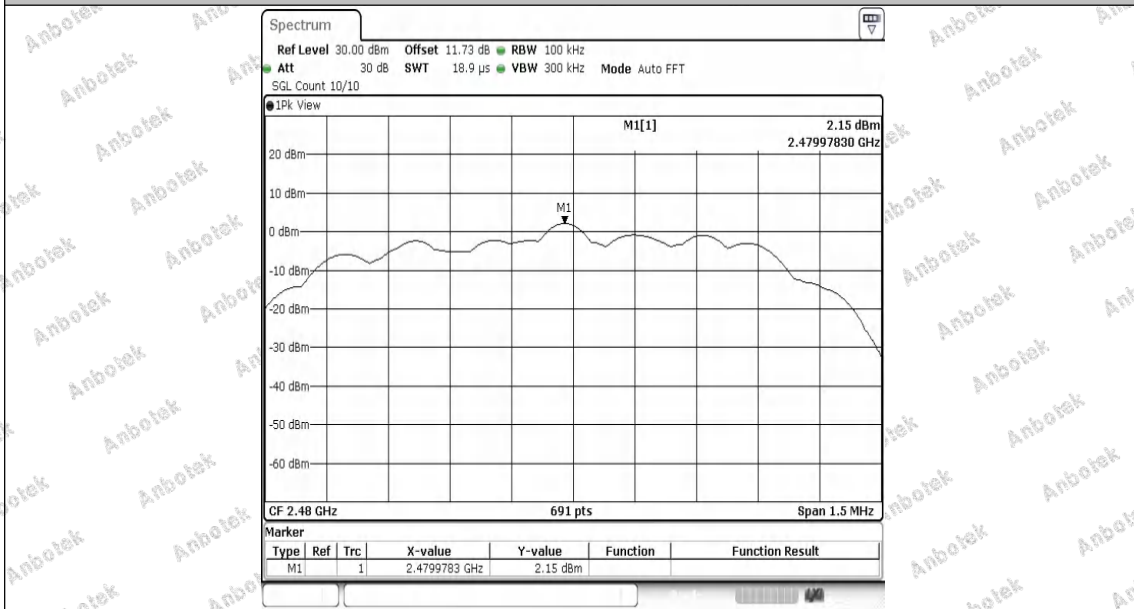


2DH5-Ant1-2441-30~1000-PASS



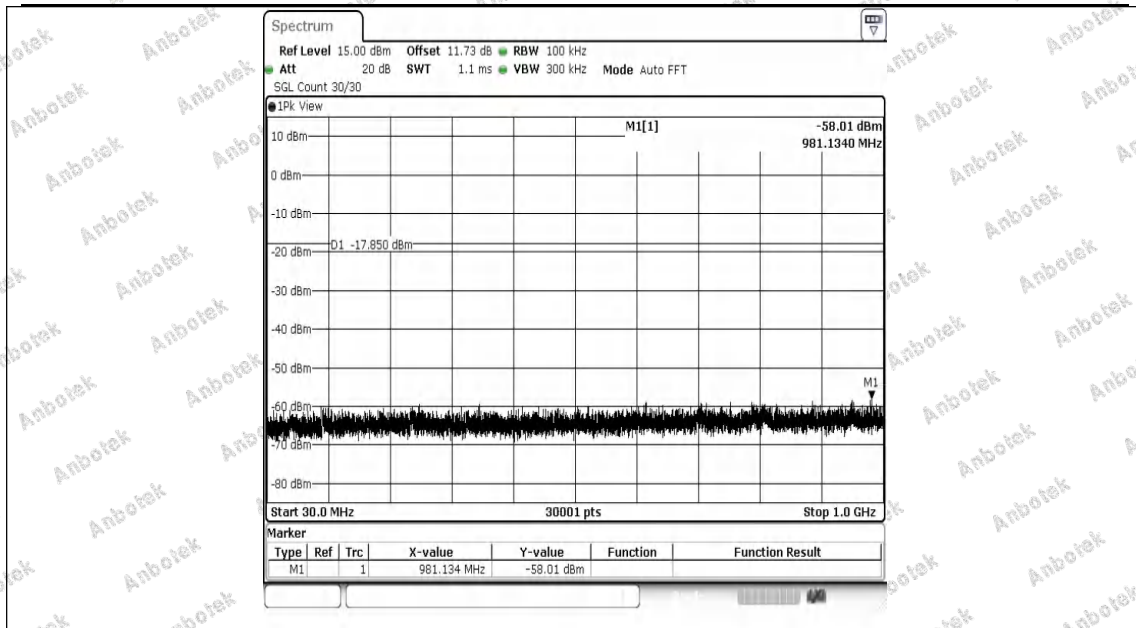


2DH5-Ant1-2441-1000~26500-PASS

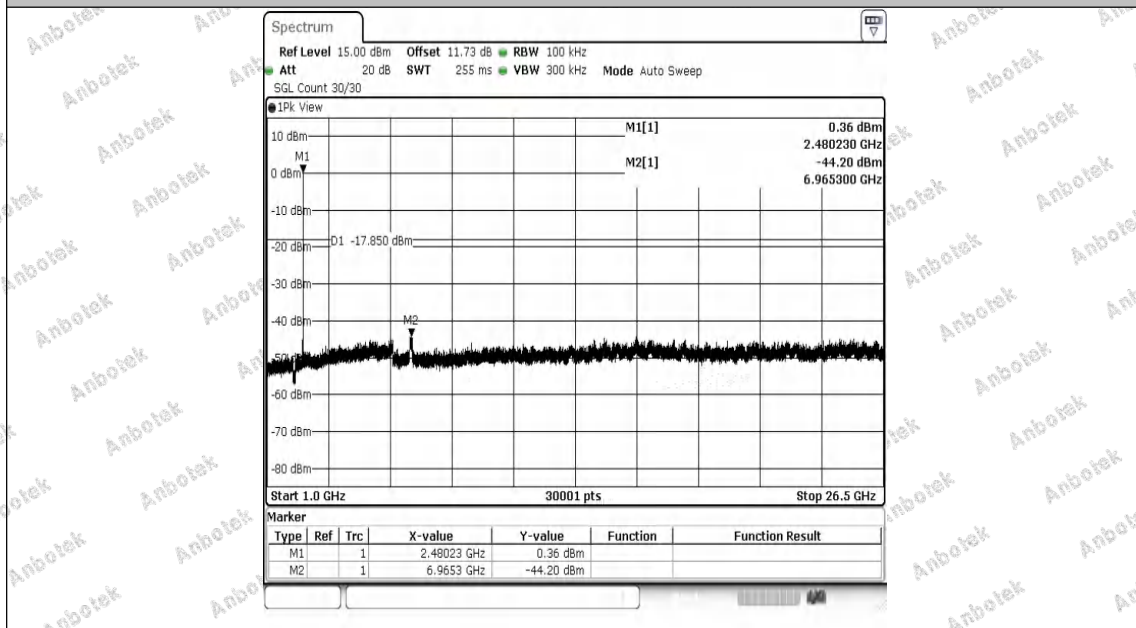


2DH5-Ant1-2480-0~Reference-PASS



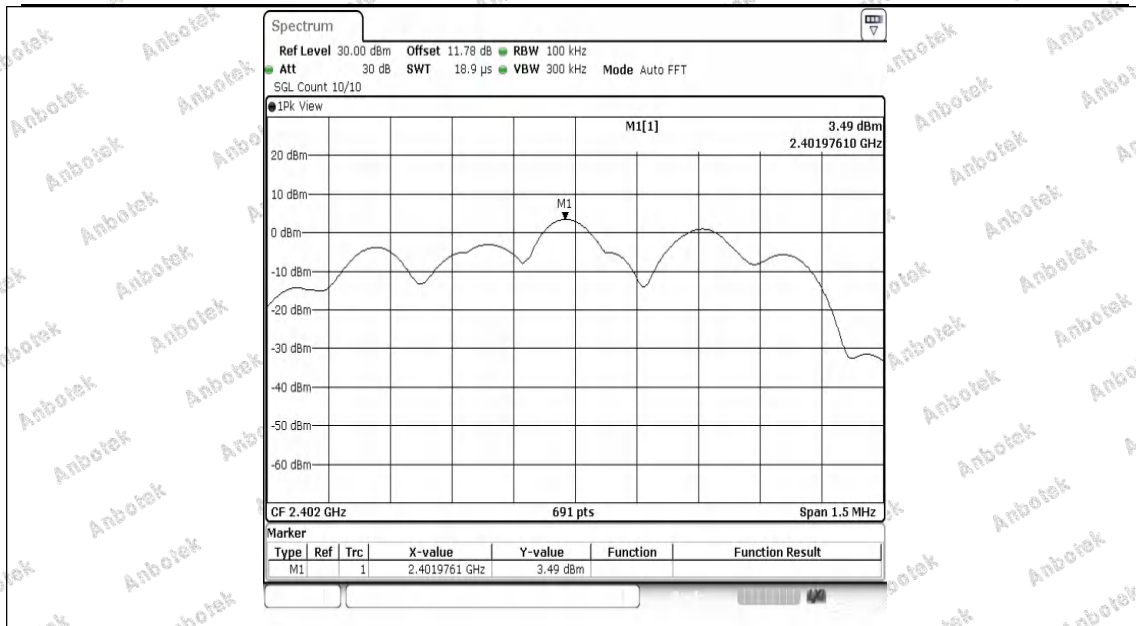


2DH5-Ant1-2480-30~1000-PASS

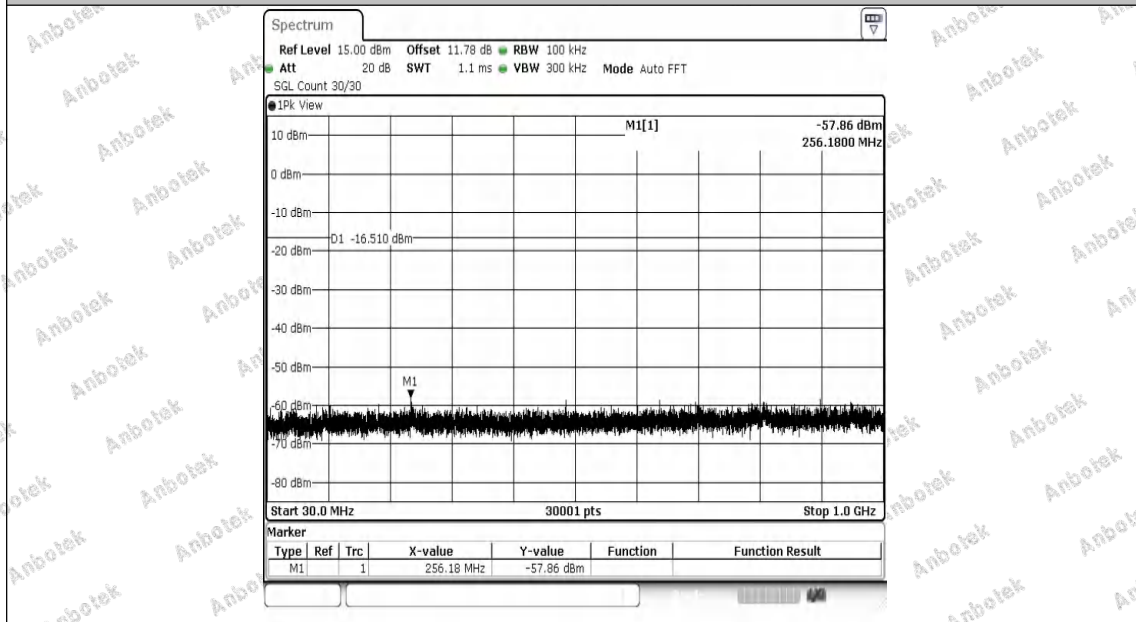


2DH5-Ant1-2480-1000~26500-PASS



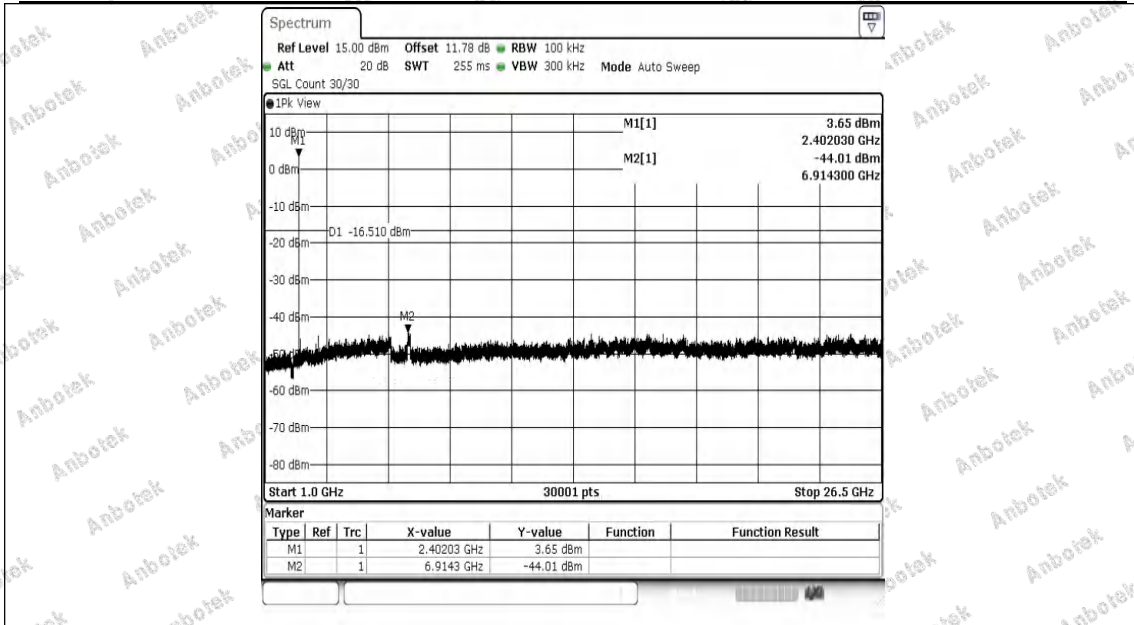


3DH5-Ant1-2402-0~Reference-PASS

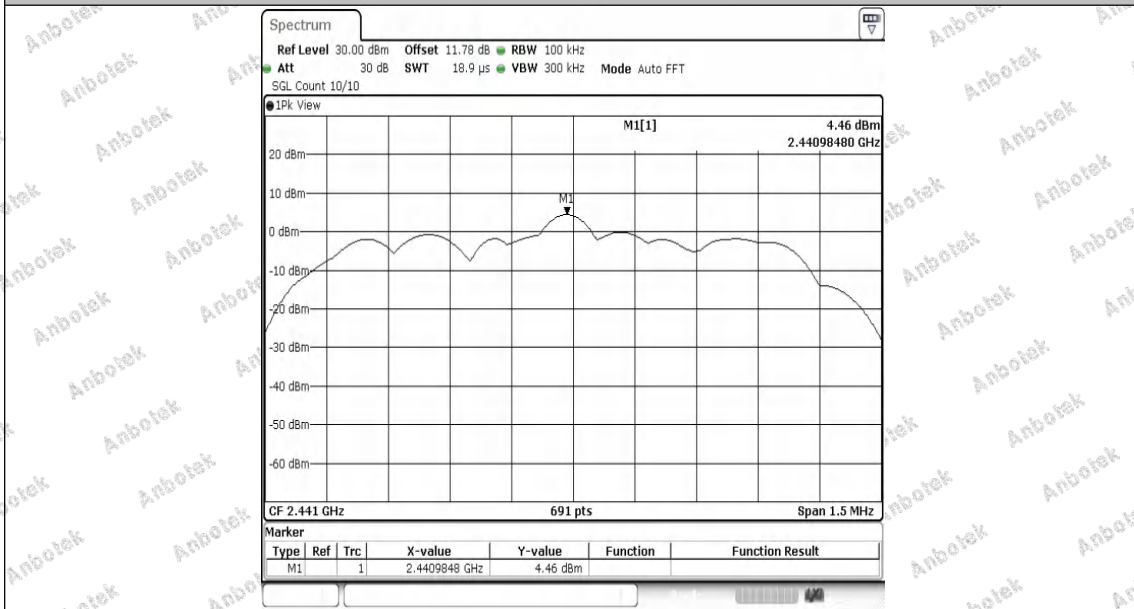


3DH5-Ant1-2402-30~1000-PASS



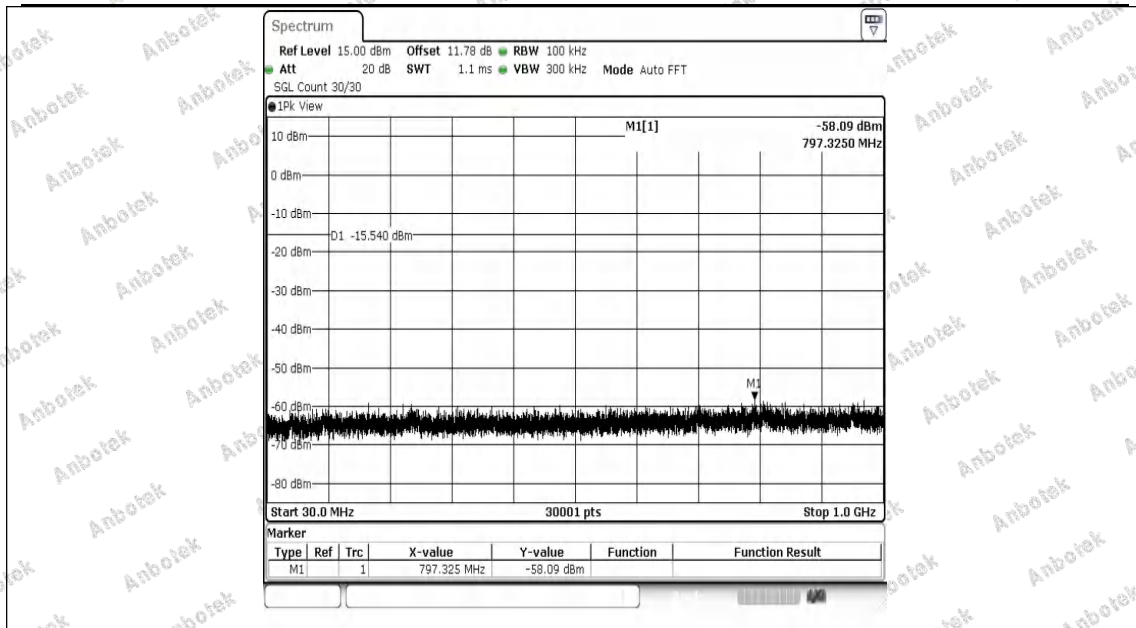


3DH5-Ant1-2402-1000~26500-PASS

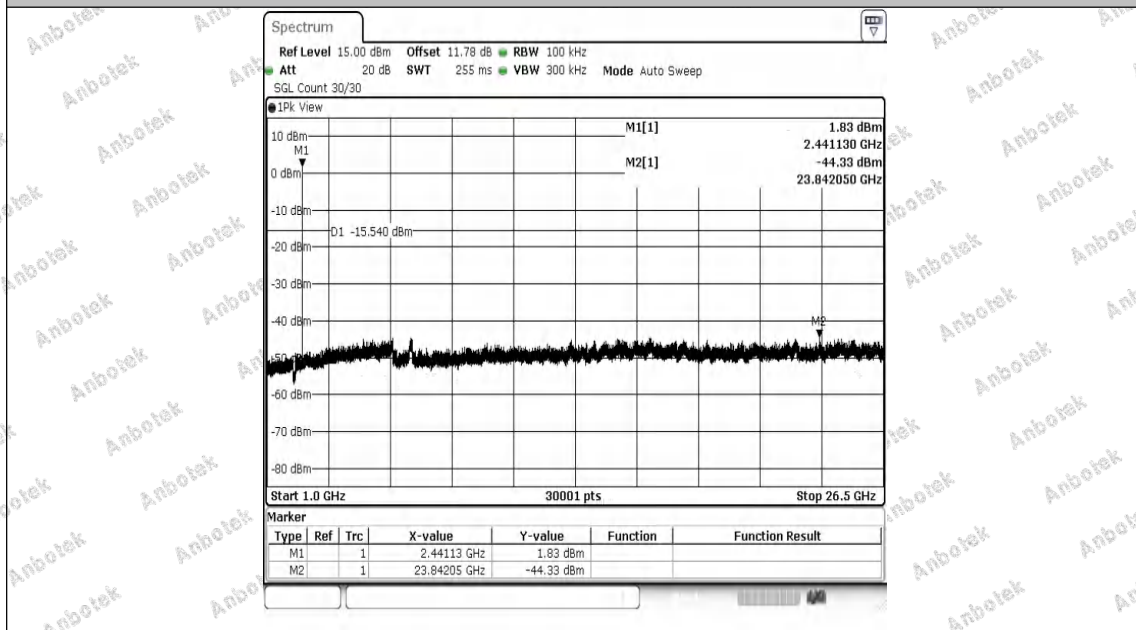


3DH5-Ant1-2441-0~Reference-PASS



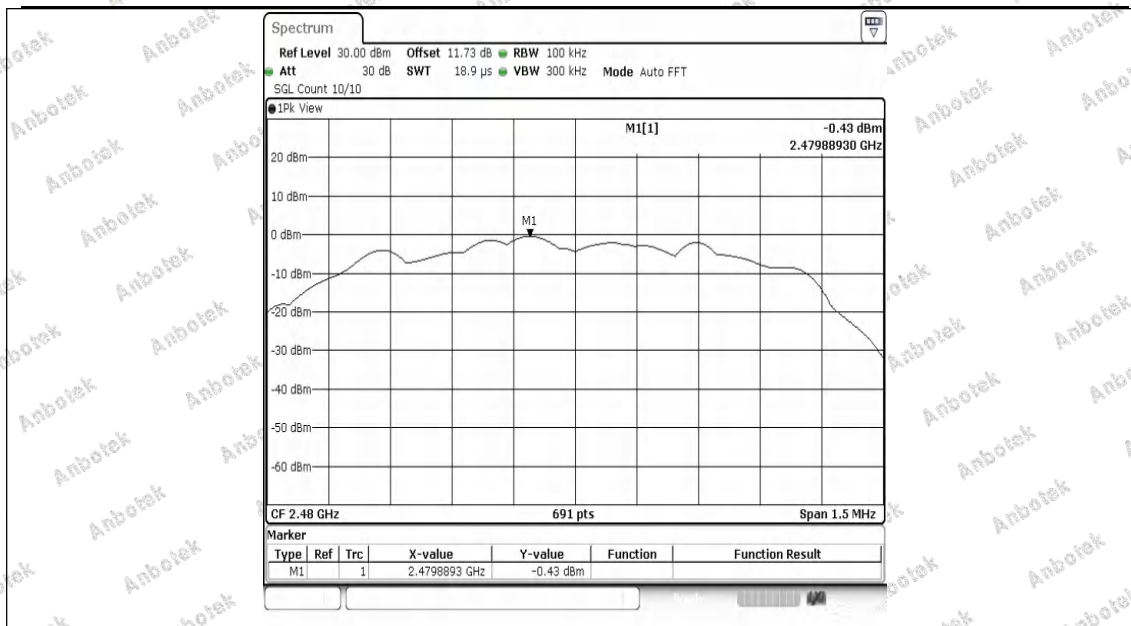


3DH5-Ant1-2441-30~1000-PASS

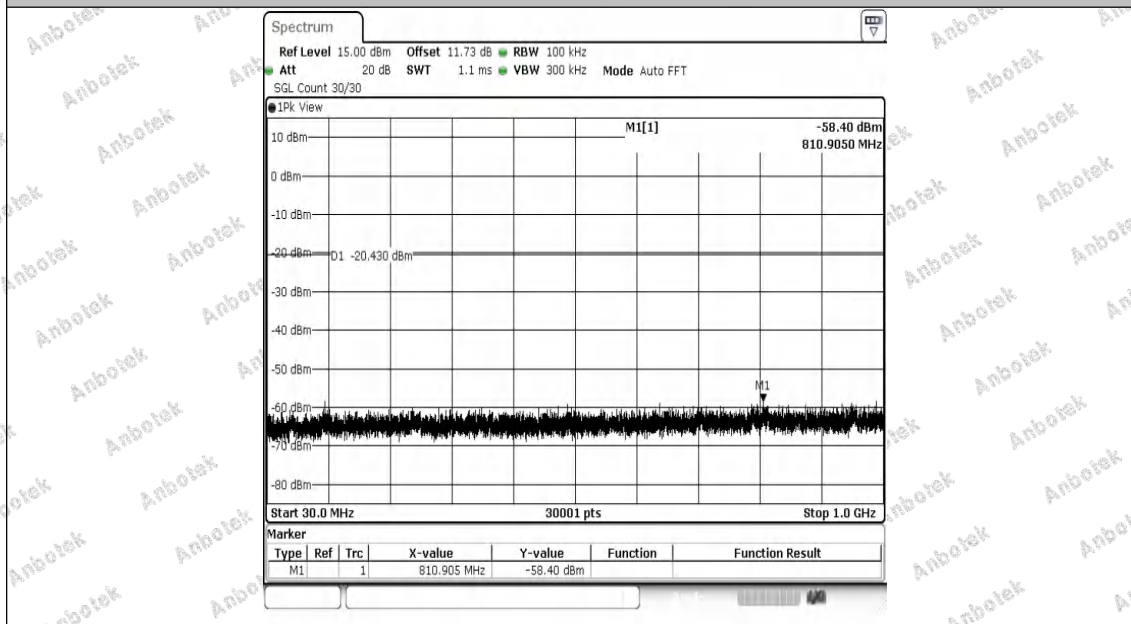


3DH5-Ant1-2441-1000~26500-PASS



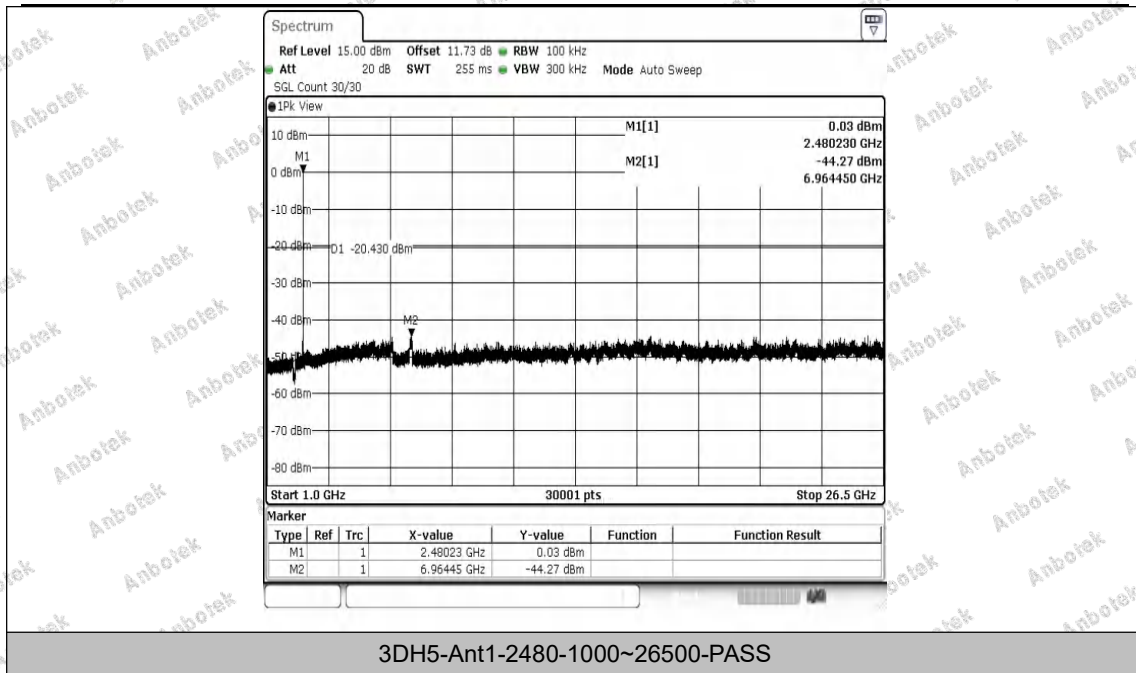


3DH5-Ant1-2480-0~Reference-PASS



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





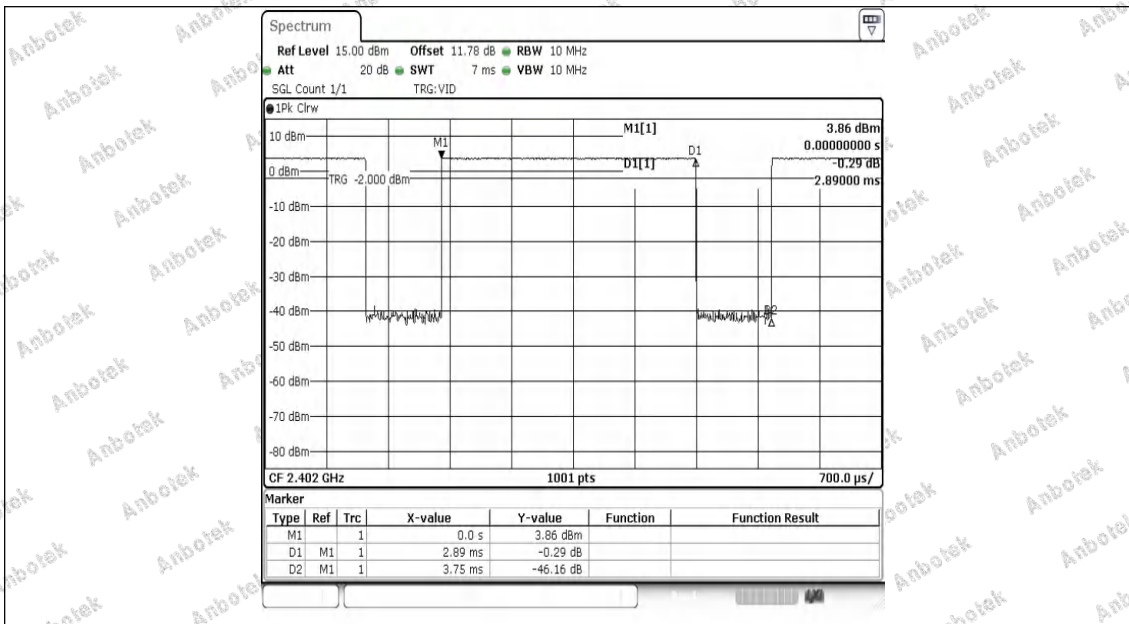
Appendix I: Duty Cycle

Test Result

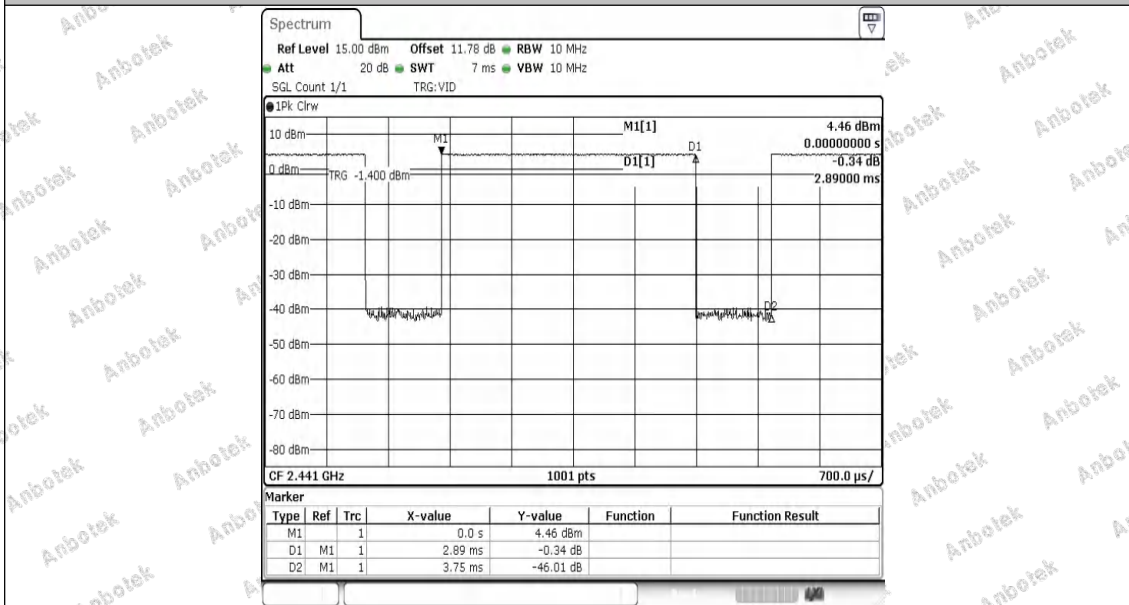
TestMode	Antenn a	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.90	3.76	77.13	1.13
2DH5	Ant1	2441	2.90	3.76	77.13	1.13
2DH5	Ant1	2480	2.89	3.76	76.86	1.14
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
3DH5	Ant1	2441	2.89	3.75	77.07	1.13
3DH5	Ant1	2480	2.90	3.76	77.13	1.13



Test Graphs

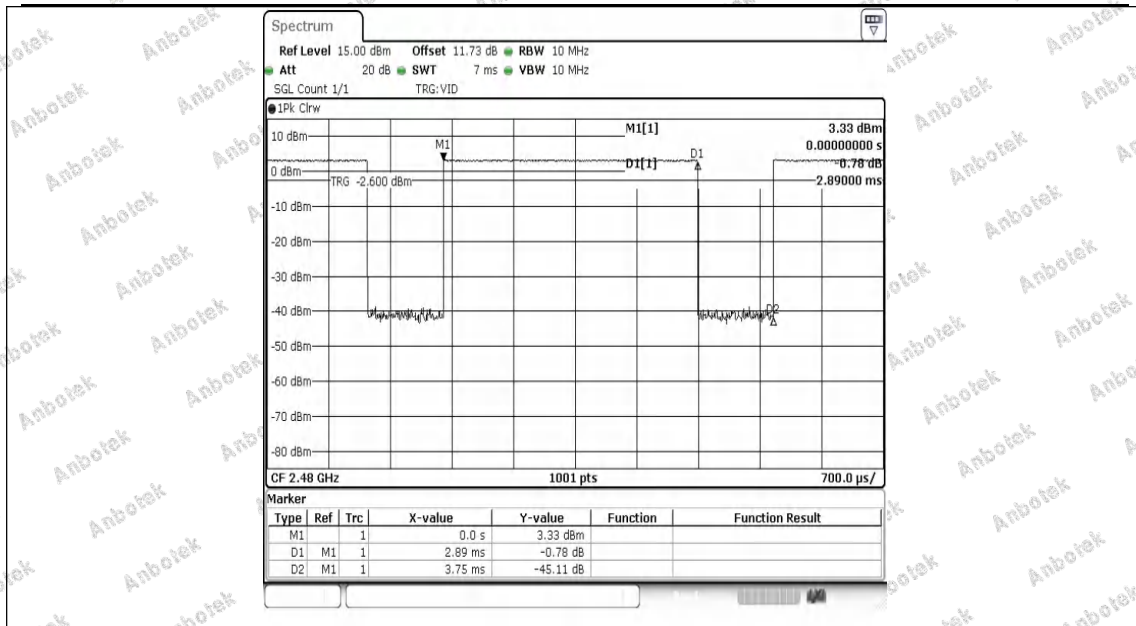


NTNV-DH5-Ant1-2402

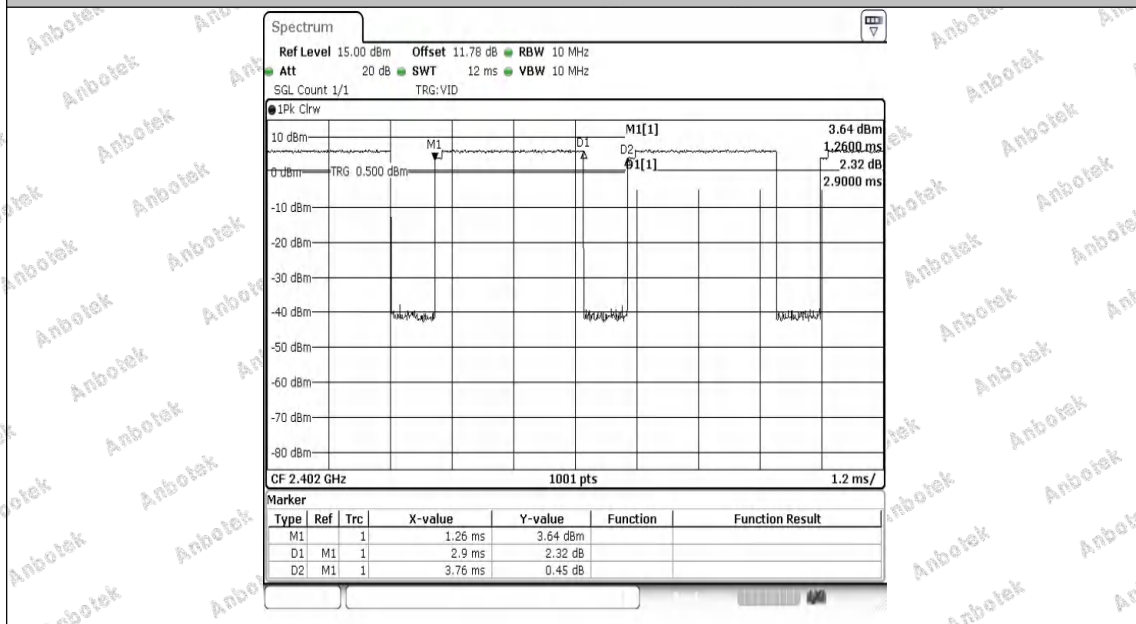


NTNV-DH5-Ant1-2441



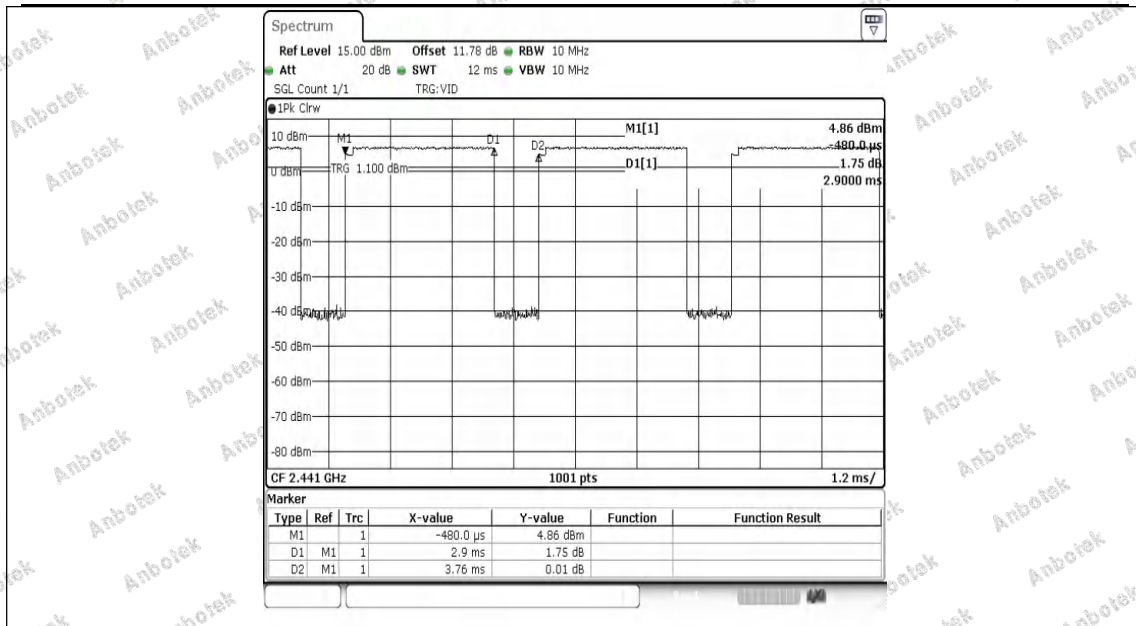


NTNV-DH5-Ant1-2480

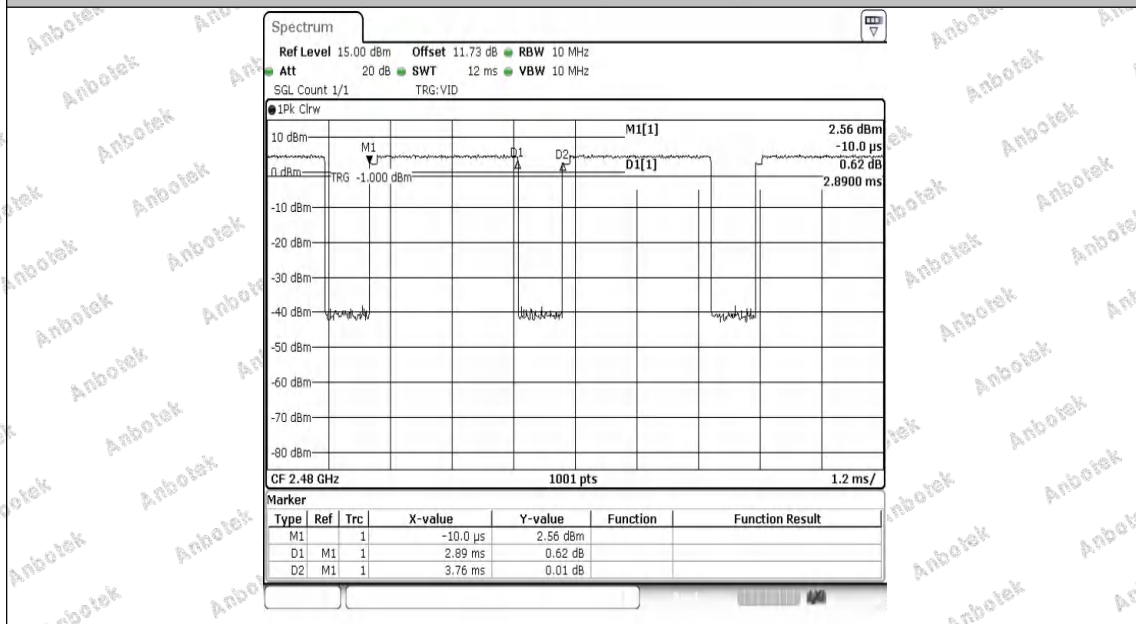


NTNV-2DH5-Ant1-2402



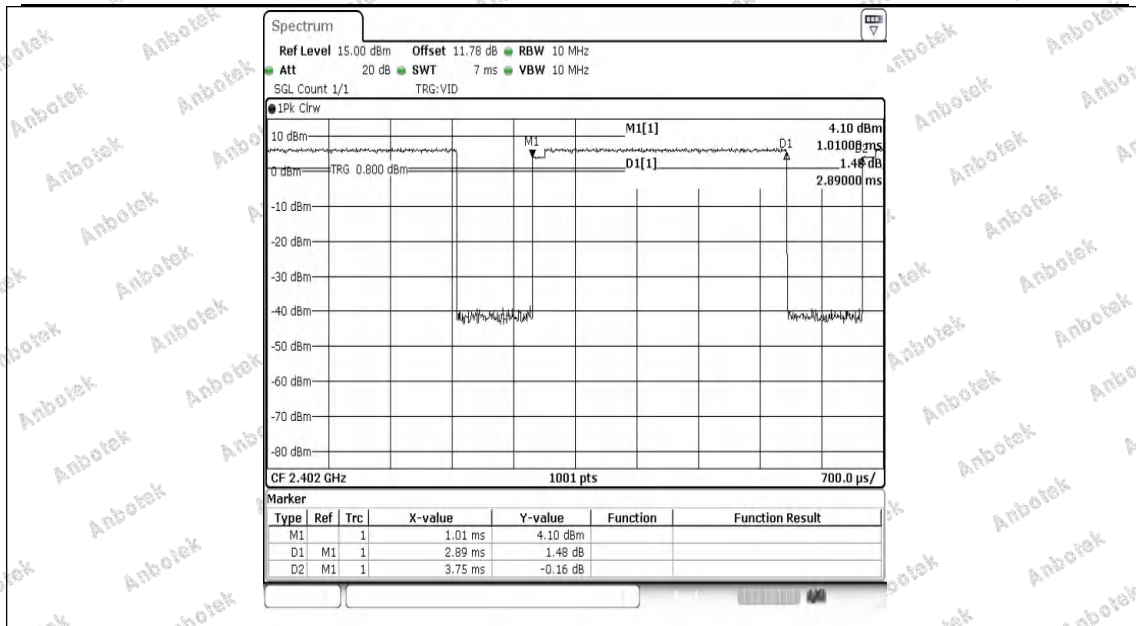


NTNV-2DH5-Ant1-2441

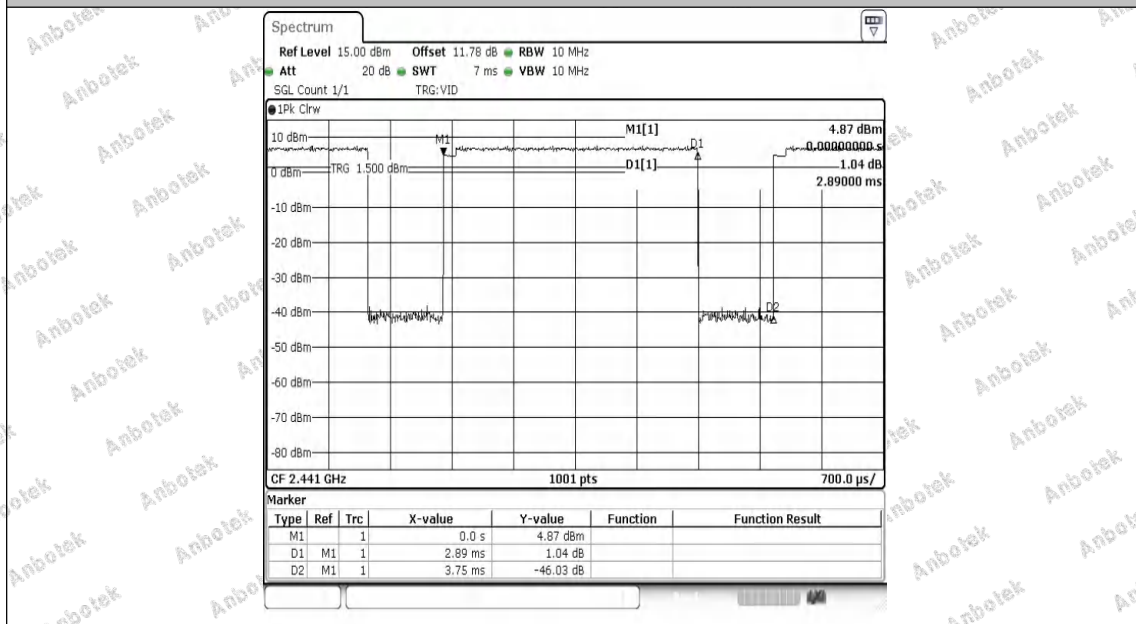


NTNV-2DH5-Ant1-2480



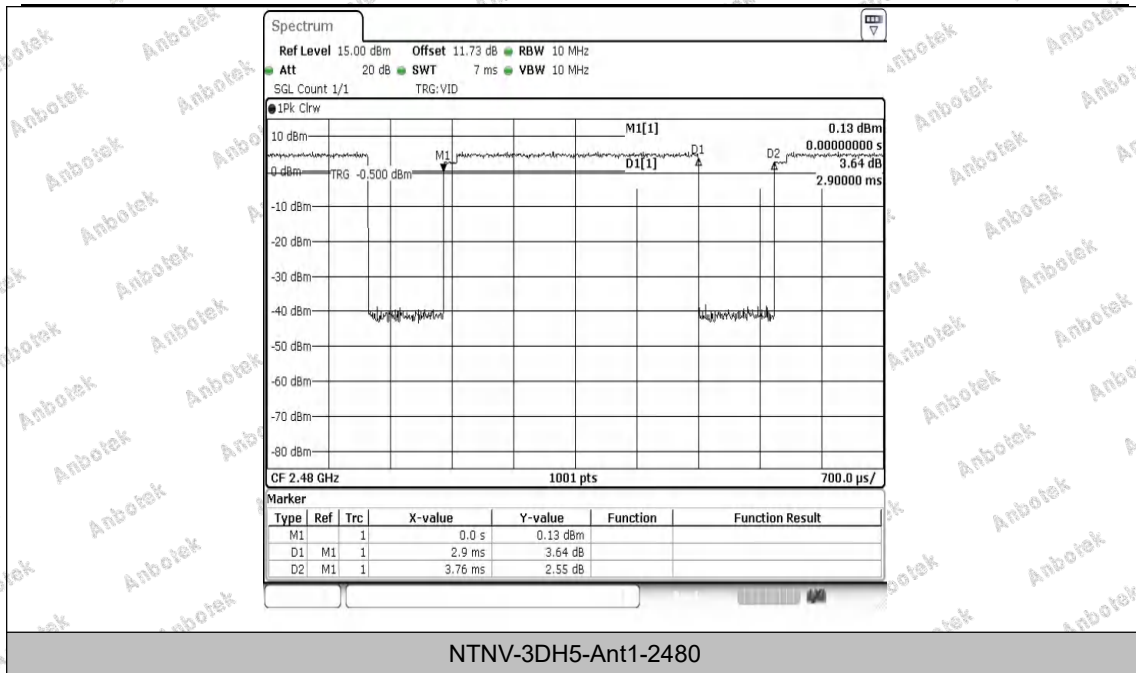


NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441





NTNV-3DH5-Ant1-2480

---END---

