

Appendix Test Data

Report No:	1813C40065012501	Test Sample NO:	1-2-2
Start Test Date:	2024.10.12	Finish Test Date:	2024.10.12
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22°C	Relative Humidity:	56%
Pressure:	101 kPa		

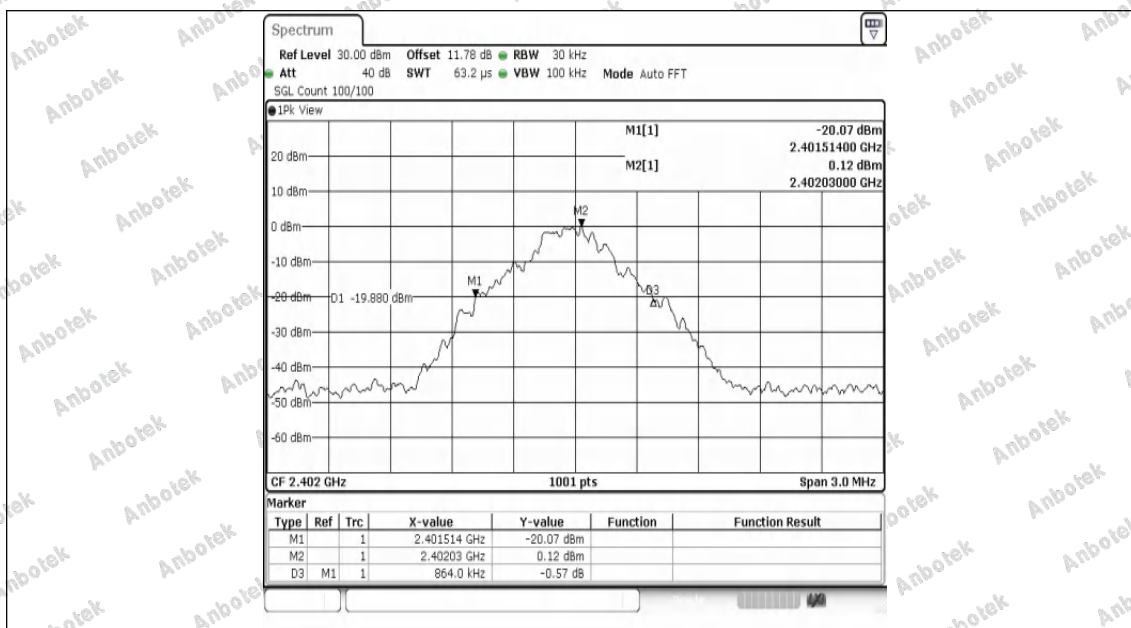
Appendix A: 20dB Emission Bandwidth

Test Result

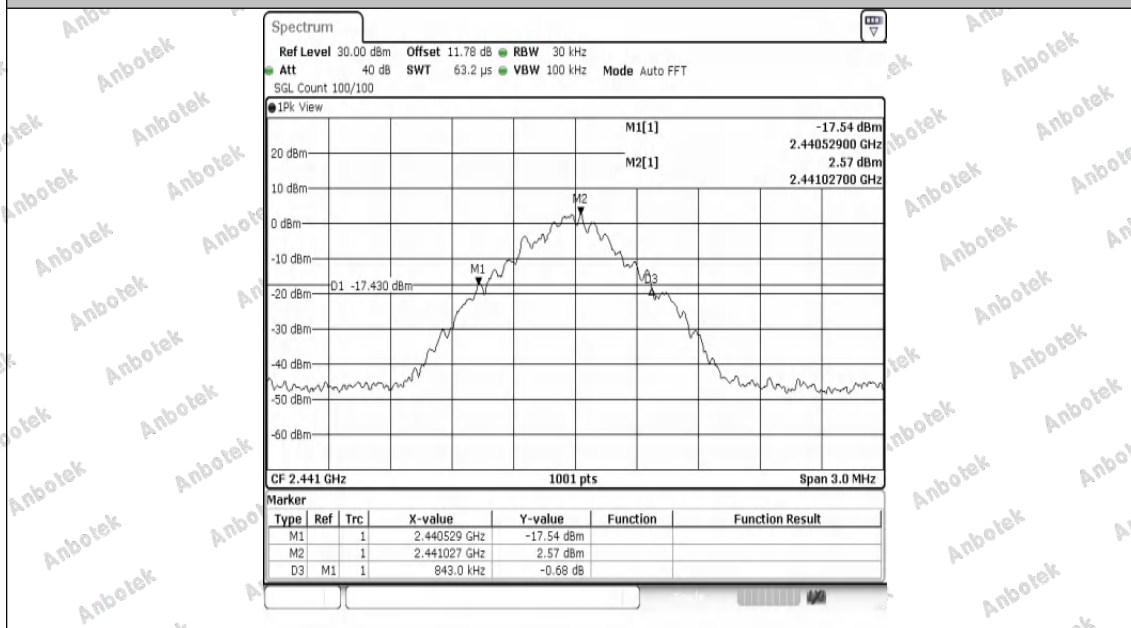
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86	2401.51	2402.38	---	---
DH5	Ant1	2441	0.84	2440.53	2441.37	---	---
DH5	Ant1	2480	0.86	2479.53	2480.38	---	---
2DH5	Ant1	2402	1.34	2401.30	2402.64	---	---
2DH5	Ant1	2441	1.35	2440.30	2441.65	---	---
2DH5	Ant1	2480	1.31	2479.33	2480.64	---	---
3DH5	Ant1	2402	1.27	2401.34	2402.60	---	---
3DH5	Ant1	2441	1.34	2440.29	2441.63	---	---
3DH5	Ant1	2480	1.31	2479.30	2480.60	---	---



Test Graphs

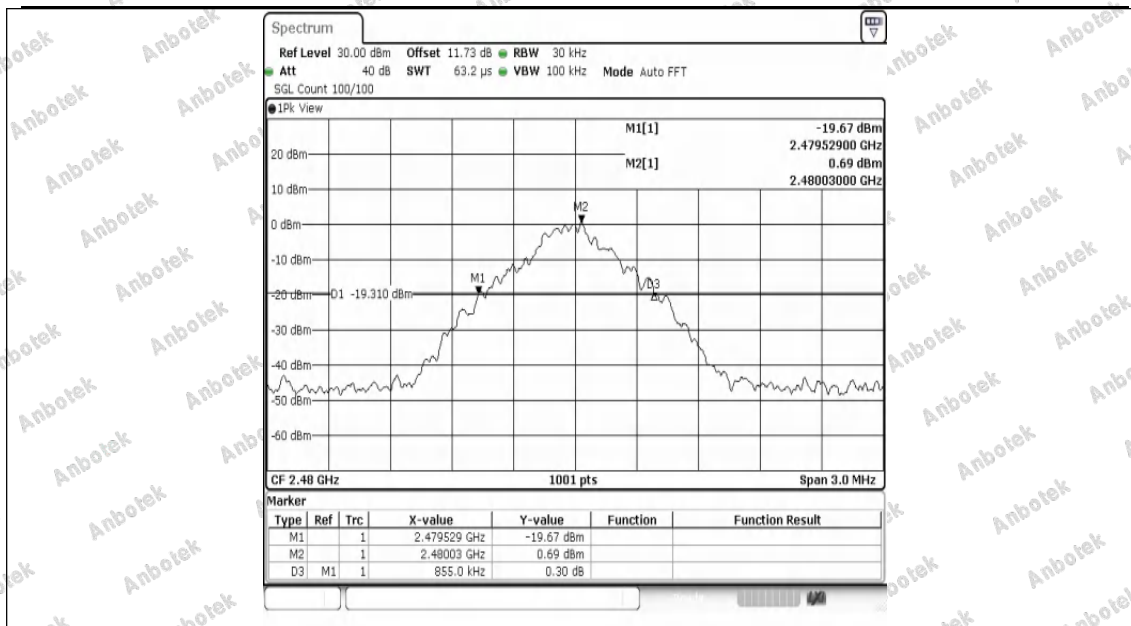


DH5-Ant1-2402

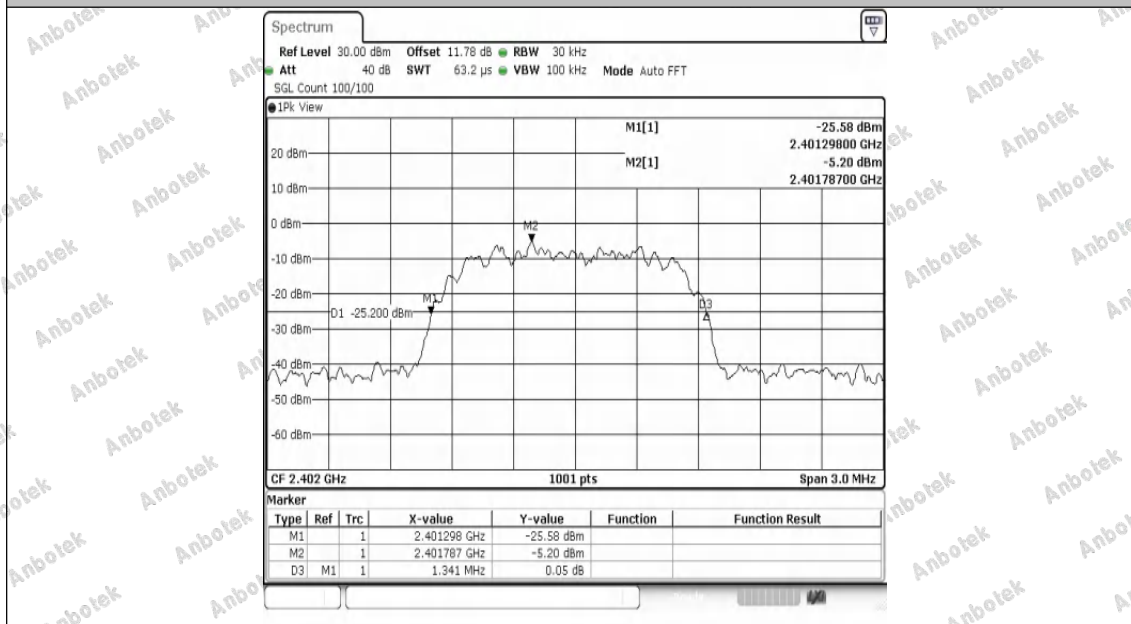


DH5-Ant1-2441



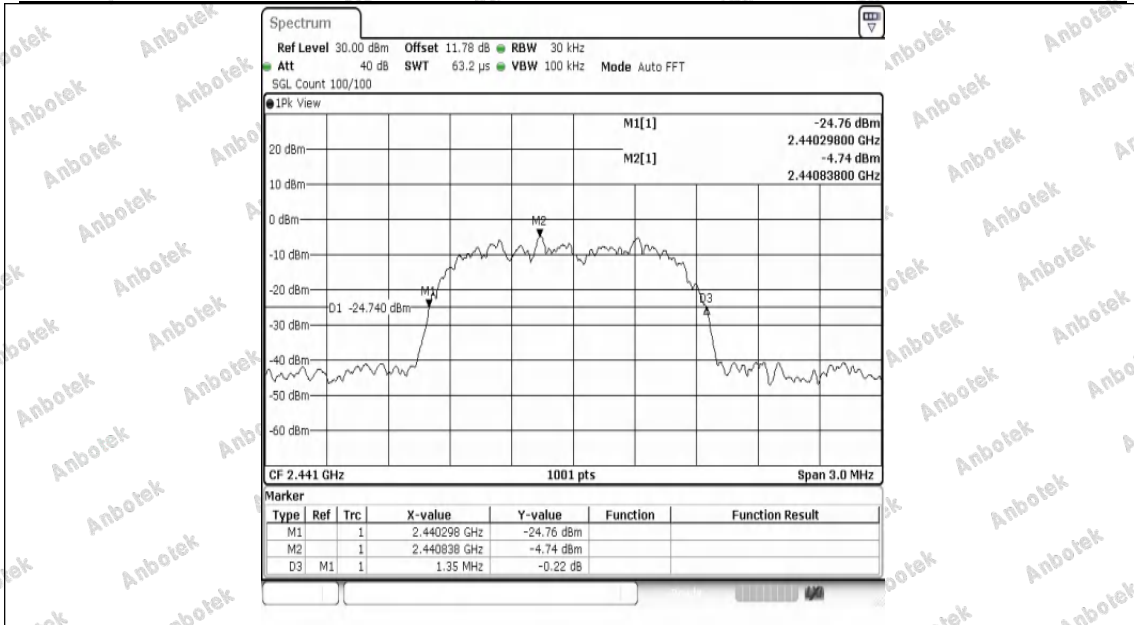


DH5-Ant1-2480

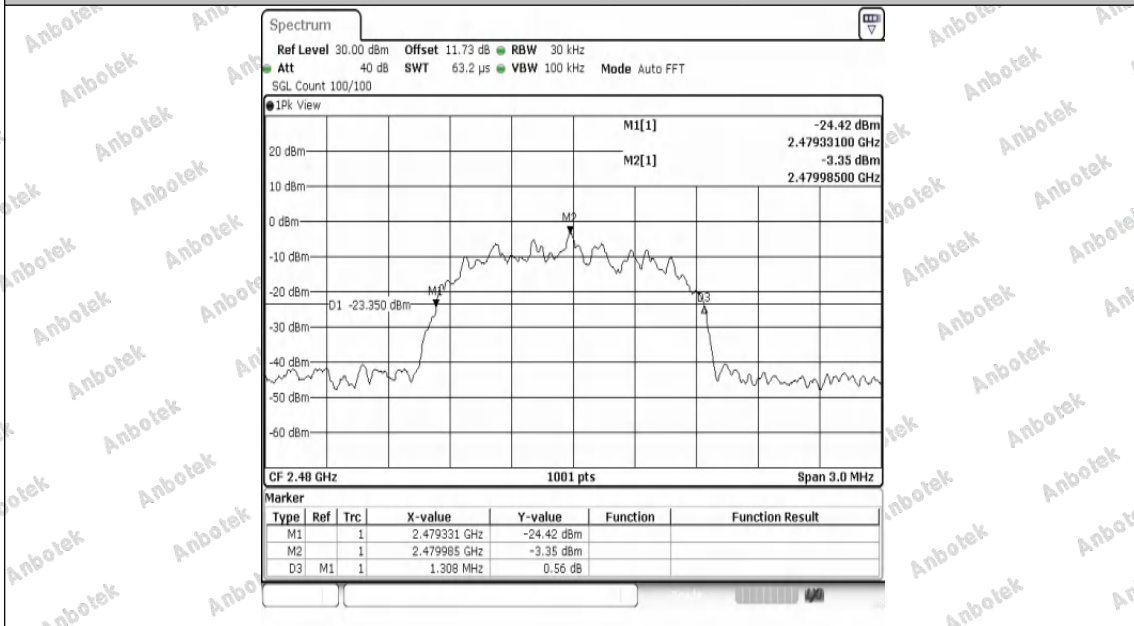


2DH5-Ant1-2402



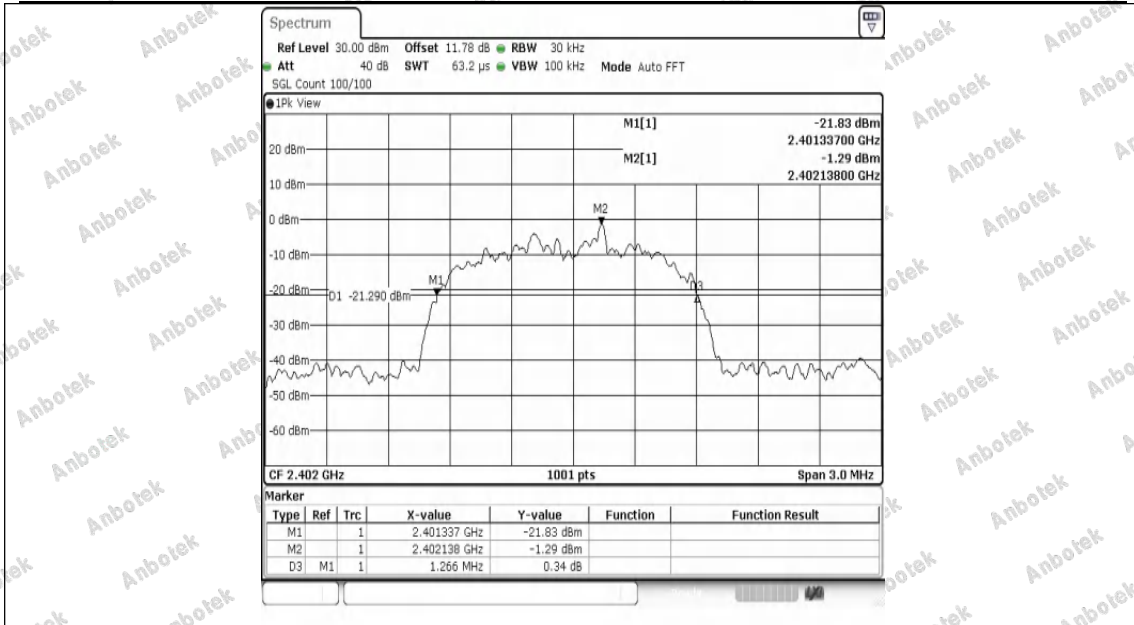


2DH5-Ant1-2441

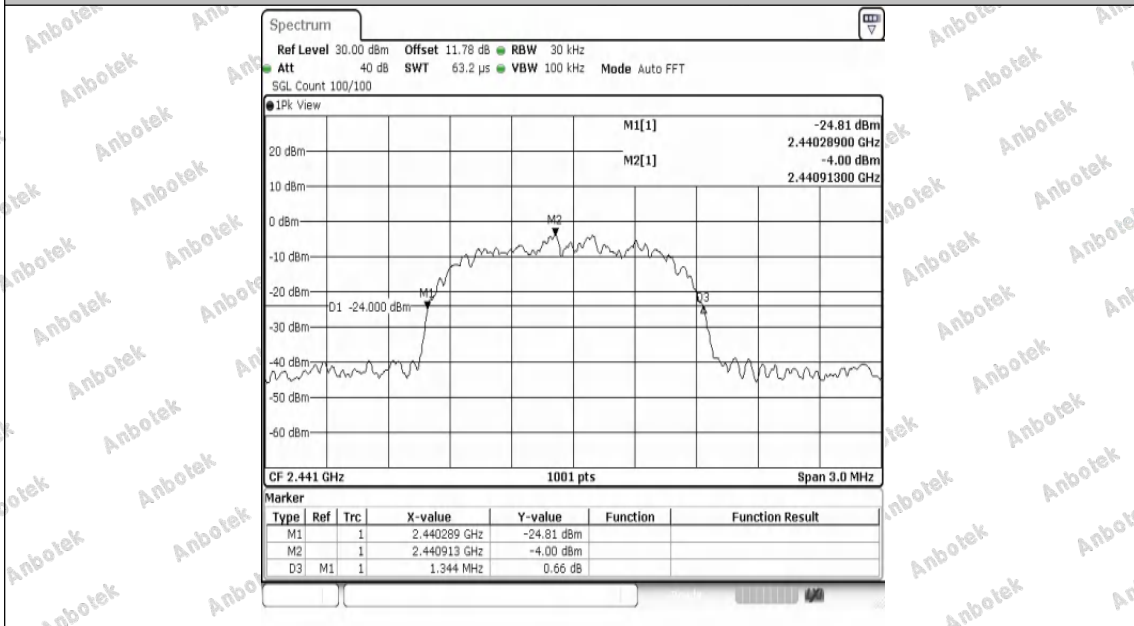


2DH5-Ant1-2480



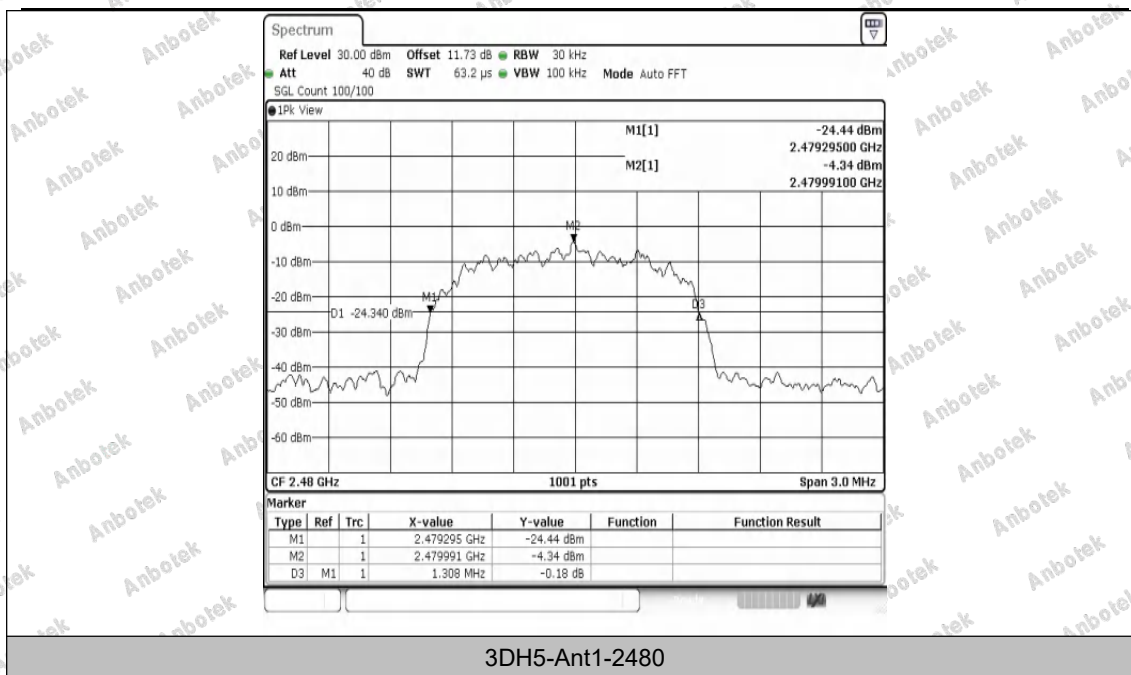


3DH5-Ant1-2402



3DH5-Ant1-2441





3DH5-Ant1-2480

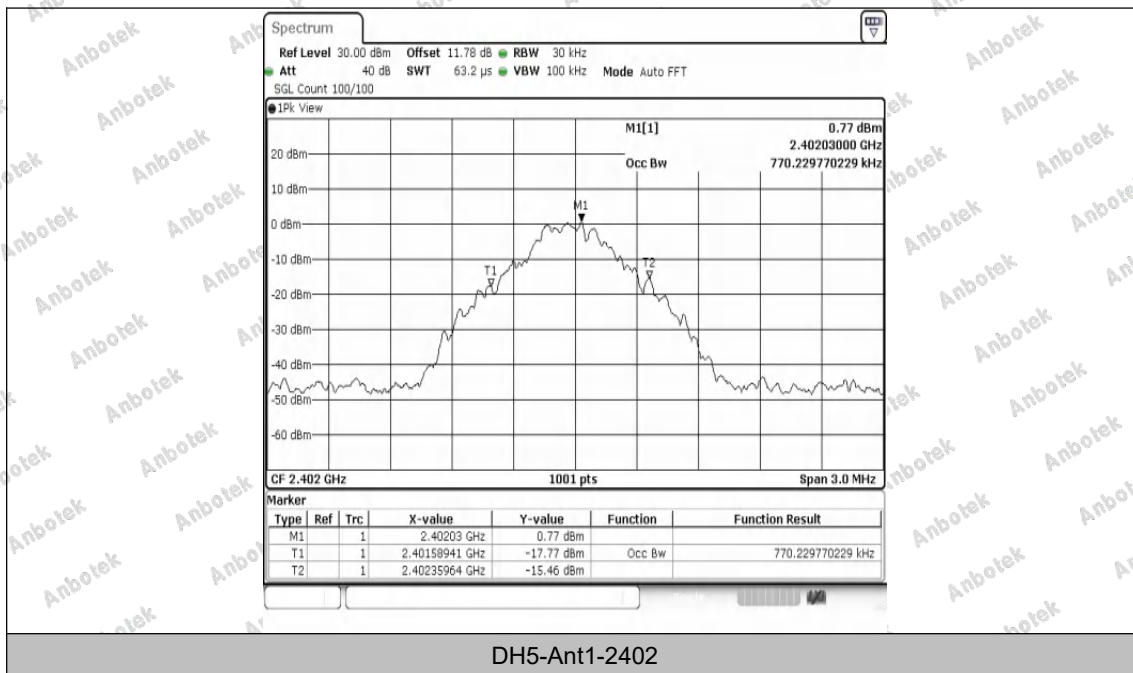


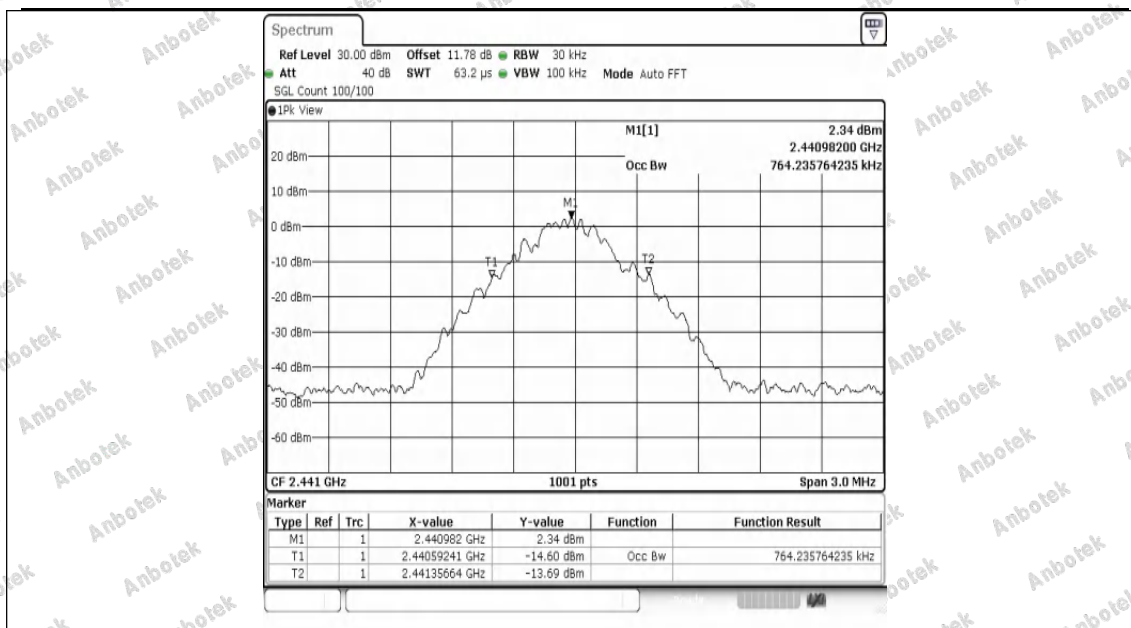
Appendix B: Occupied Channel Bandwidth

Test Result

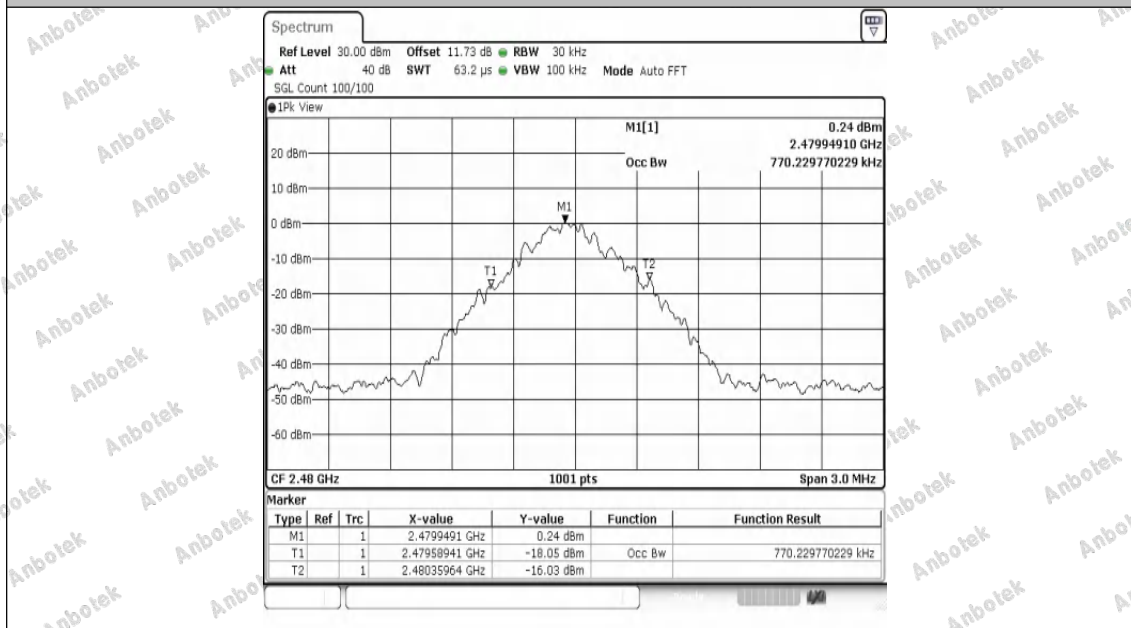
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.77	2401.5894	2402.3596	---	---
DH5	Ant1	2441	0.764	2440.5924	2441.3566	---	---
DH5	Ant1	2480	0.77	2479.5894	2480.3596	---	---
2DH5	Ant1	2402	1.208	2401.3646	2402.5724	---	---
2DH5	Ant1	2441	1.193	2440.3676	2441.5604	---	---
2DH5	Ant1	2480	1.187	2479.3646	2480.5514	---	---
3DH5	Ant1	2402	1.205	2401.3676	2402.5724	---	---
3DH5	Ant1	2441	1.205	2440.3616	2441.5664	---	---
3DH5	Ant1	2480	1.196	2479.3616	2480.5574	---	---

Test Graphs



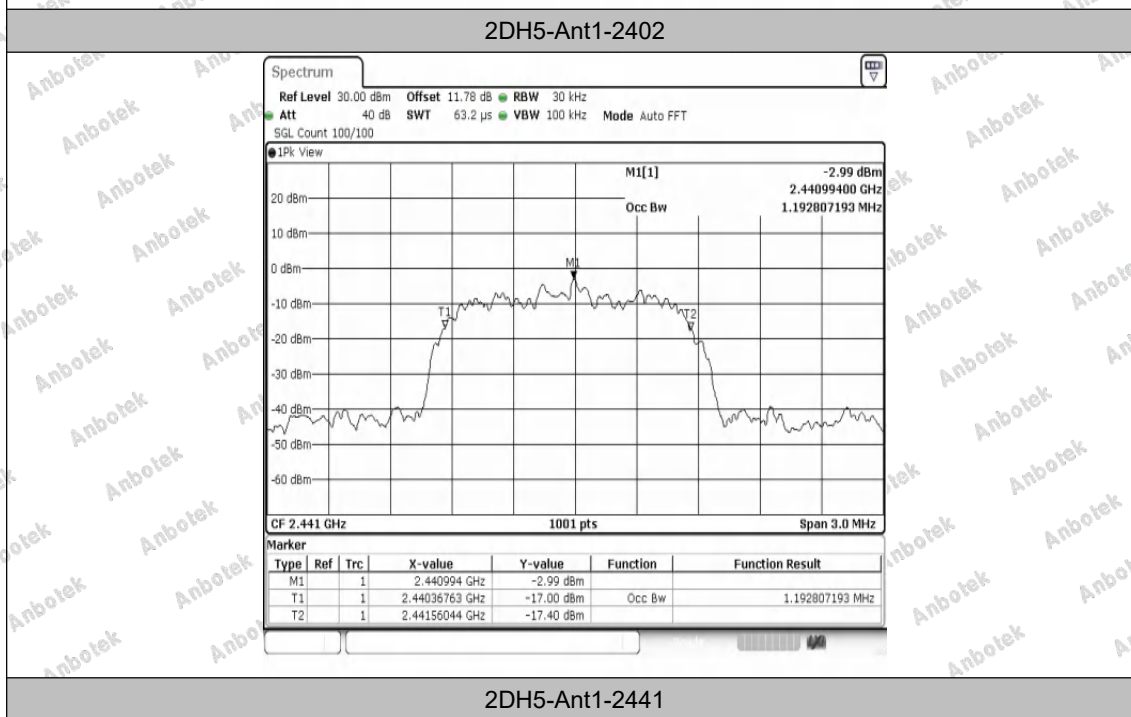
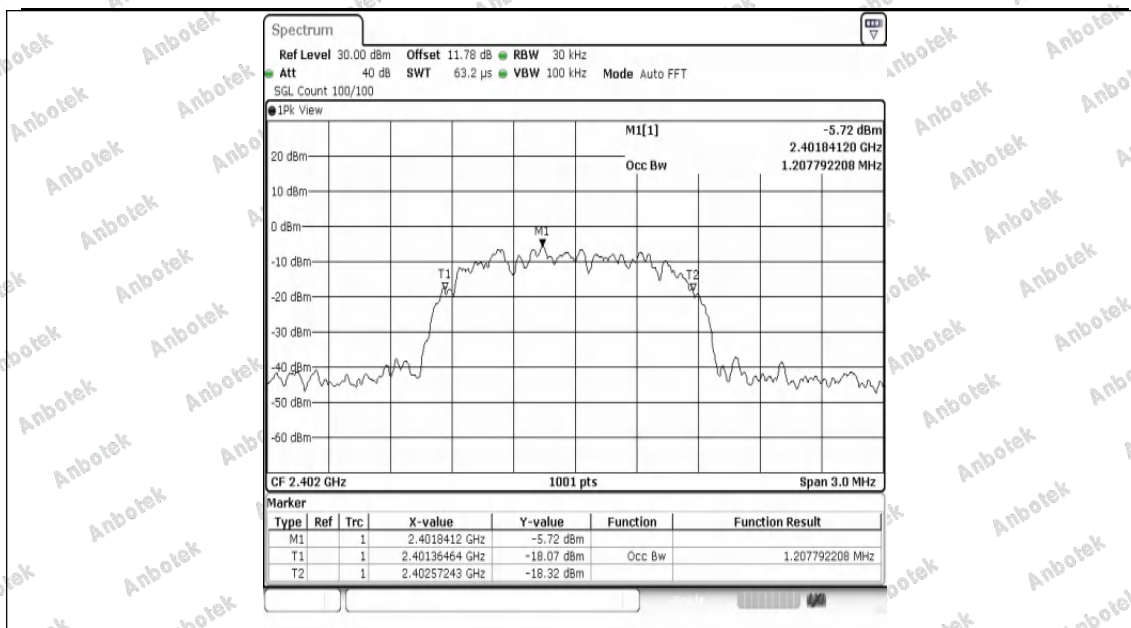


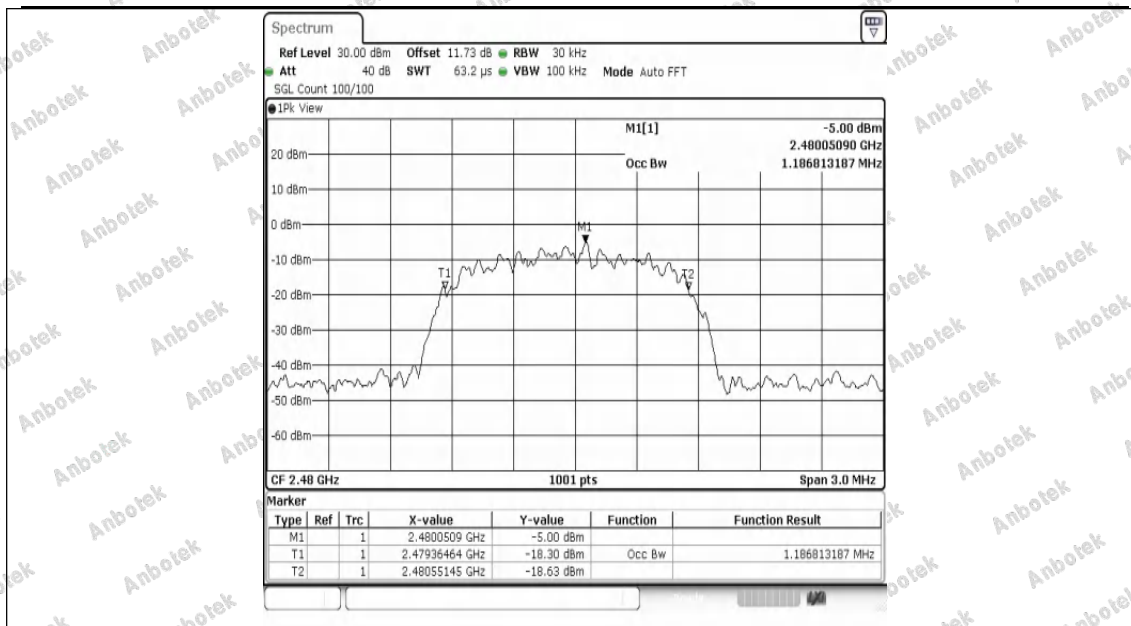
DH5-Ant1-2441



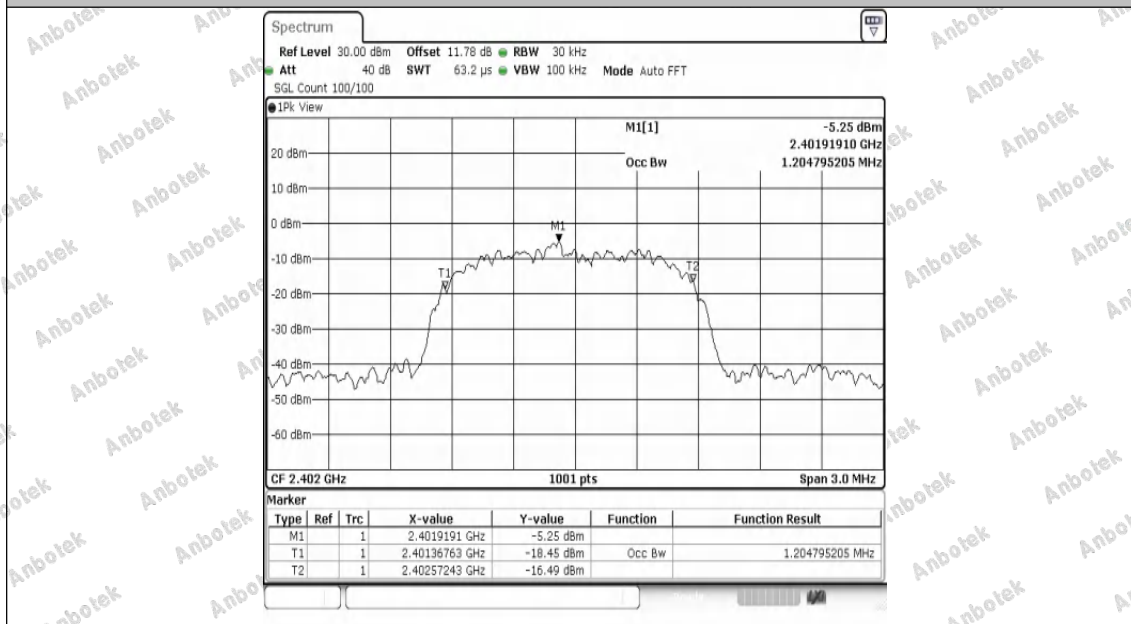
DH5-Ant1-2480





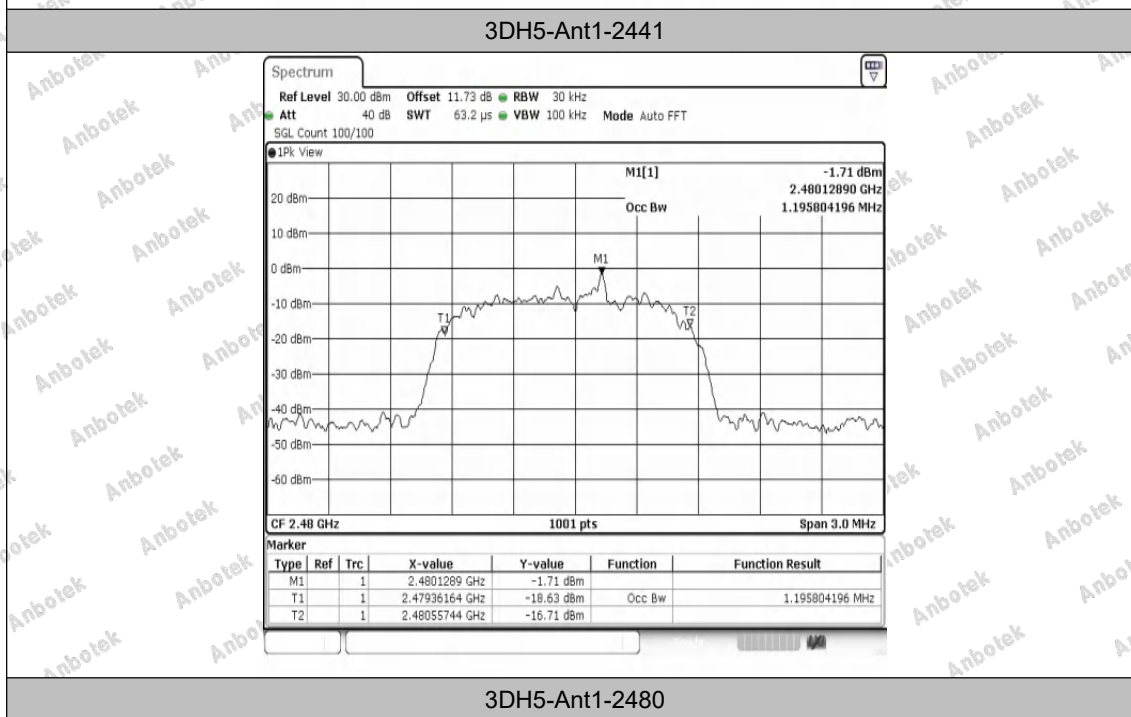
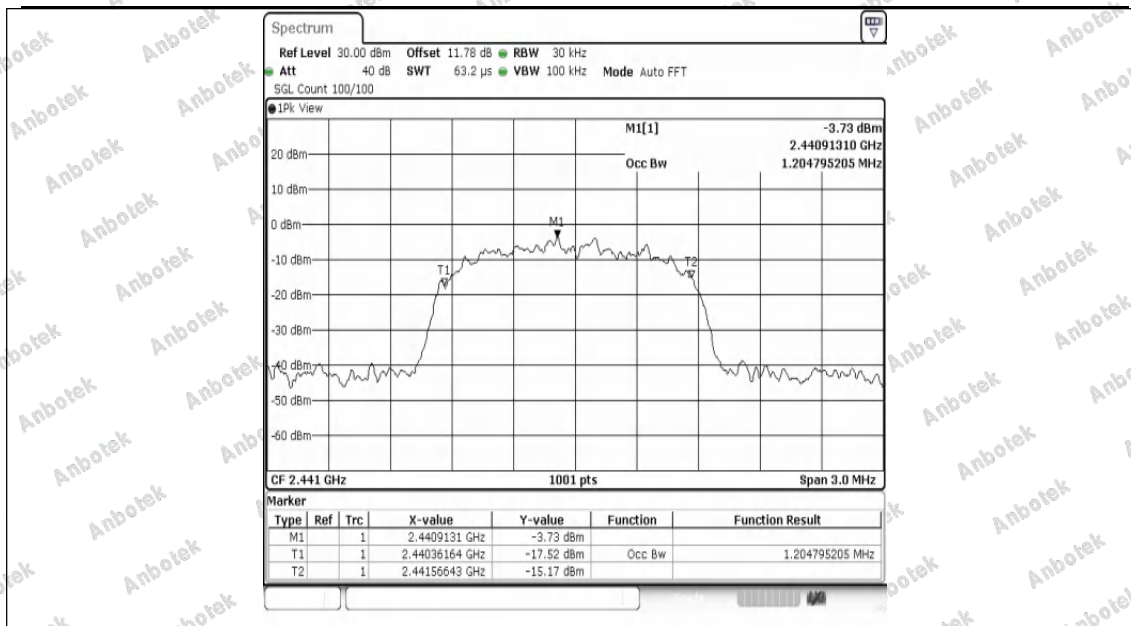


2DH5-Ant1-2480



3DH5-Ant1-2402



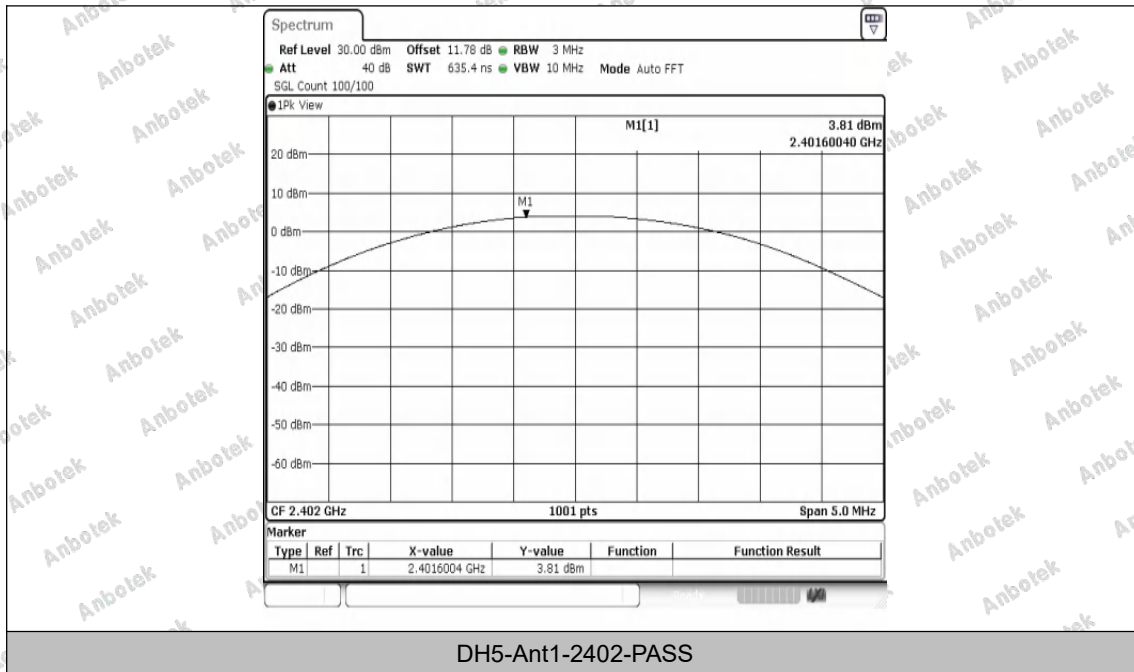


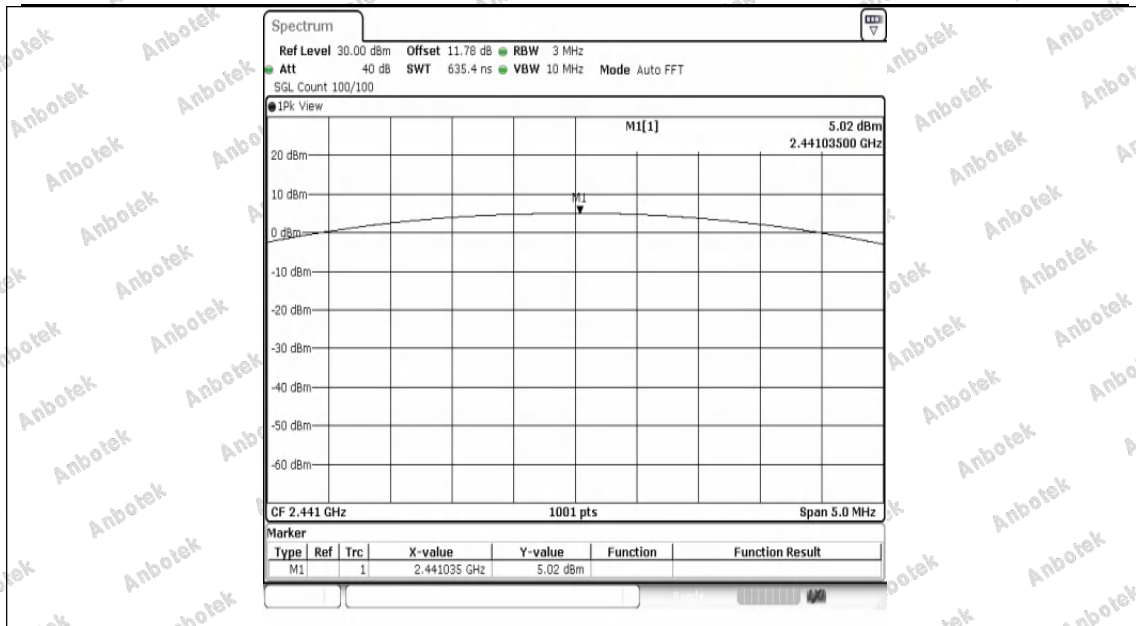
Appendix C: Maximum conducted output power

Test Result Peak

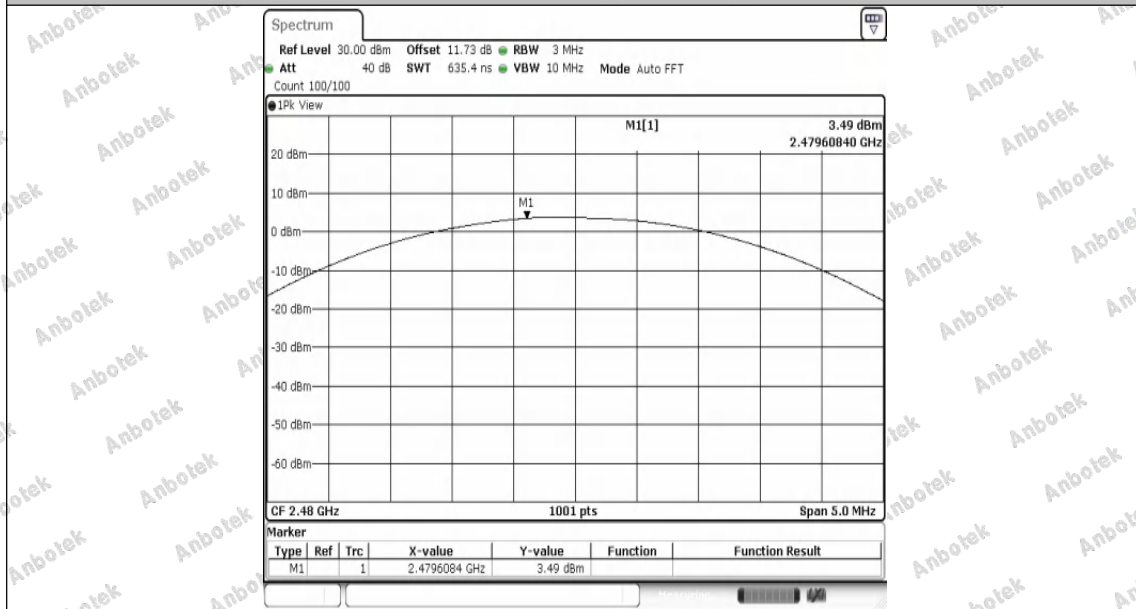
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	3.81	≤20.97	PASS
DH5	Ant1	2441	5.02	≤20.97	PASS
DH5	Ant1	2480	3.49	≤20.97	PASS
2DH5	Ant1	2402	2.79	≤20.97	PASS
2DH5	Ant1	2441	3.75	≤20.97	PASS
2DH5	Ant1	2480	2.59	≤20.97	PASS
3DH5	Ant1	2402	3.19	≤20.97	PASS
3DH5	Ant1	2441	4.18	≤20.97	PASS
3DH5	Ant1	2480	2.93	≤20.97	PASS

Test Graphs



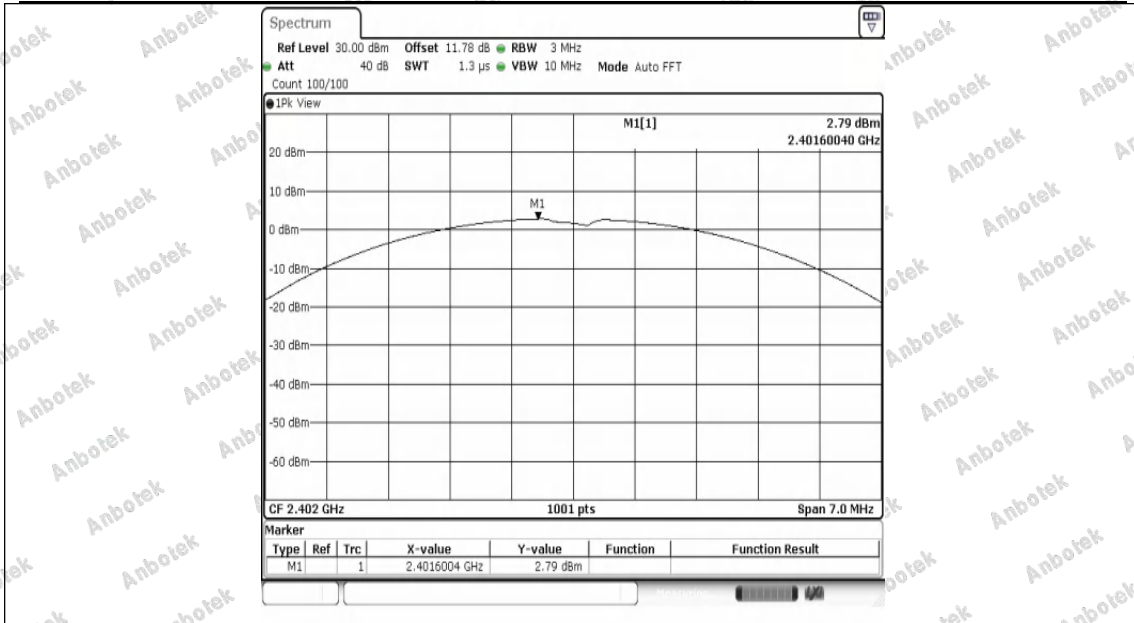


DH5-Ant1-2441-PASS

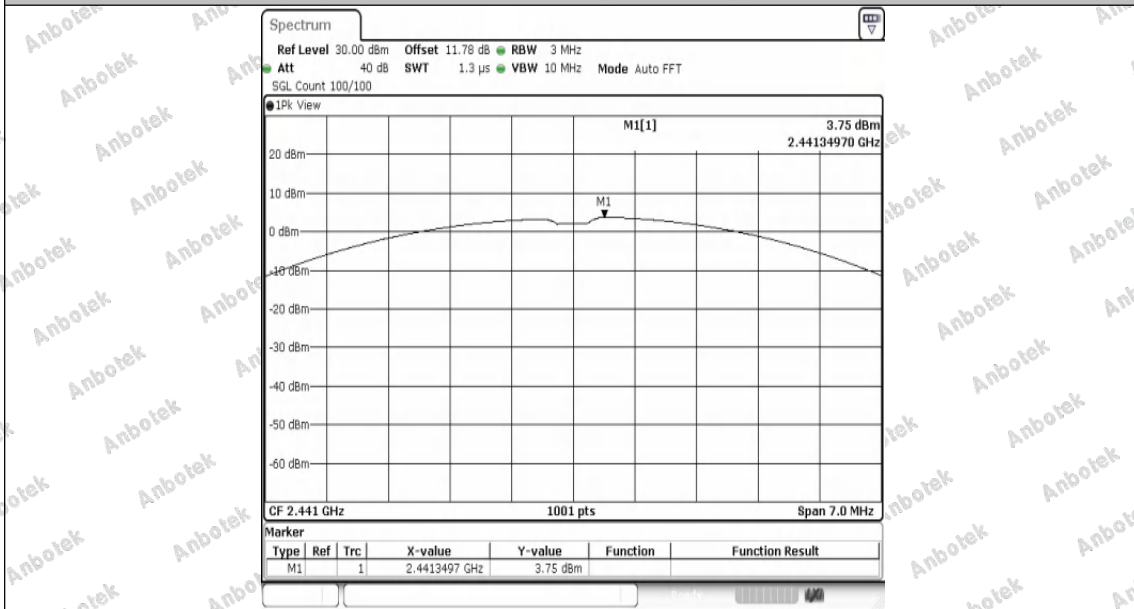


DH5-Ant1-2480-PASS



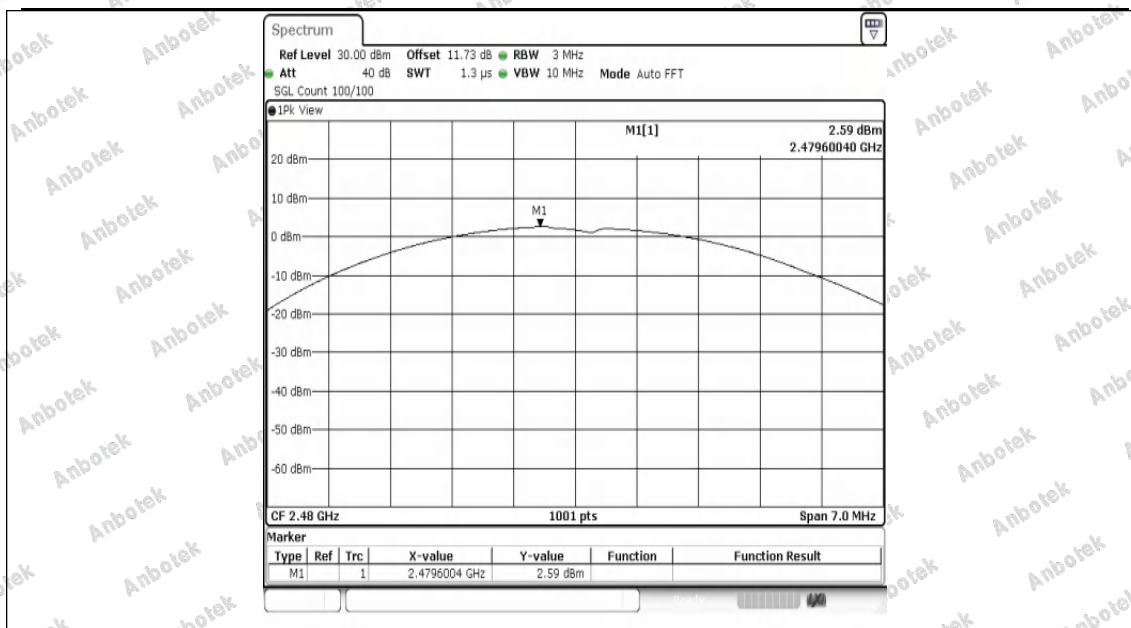


2DH5-Ant1-2402-PASS

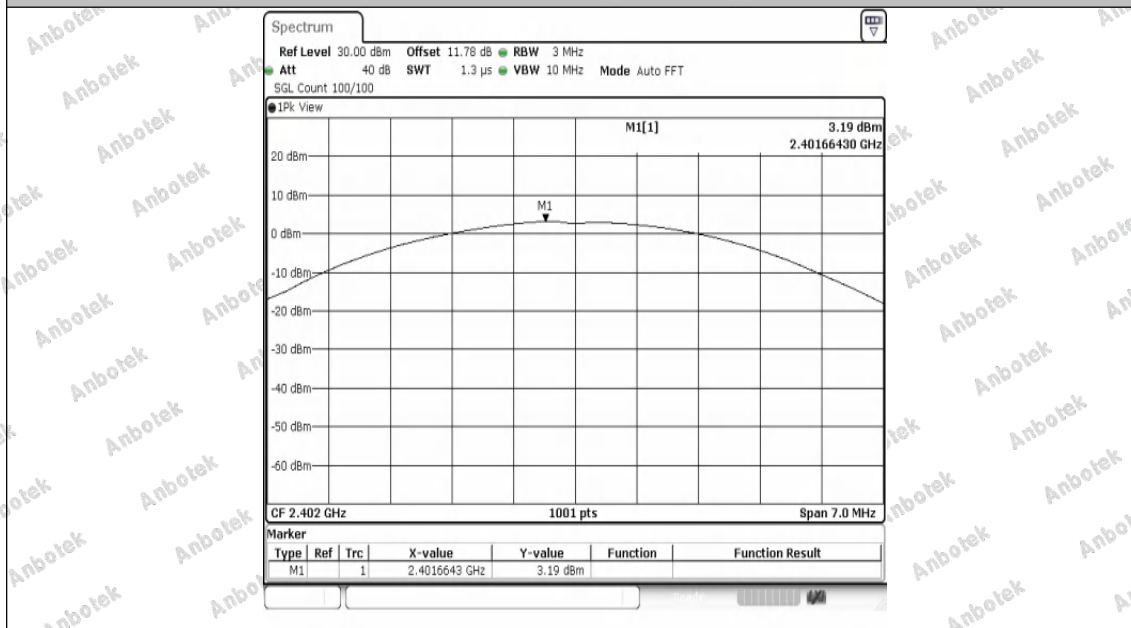


2DH5-Ant1-2441-PASS



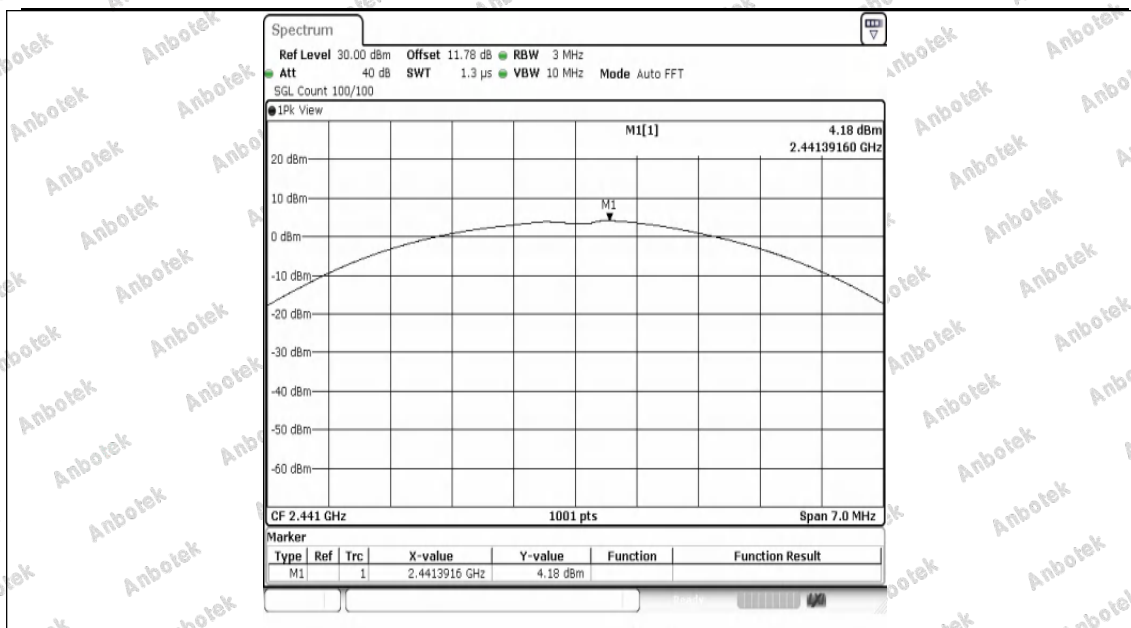


2DH5-Ant1-2480-PASS

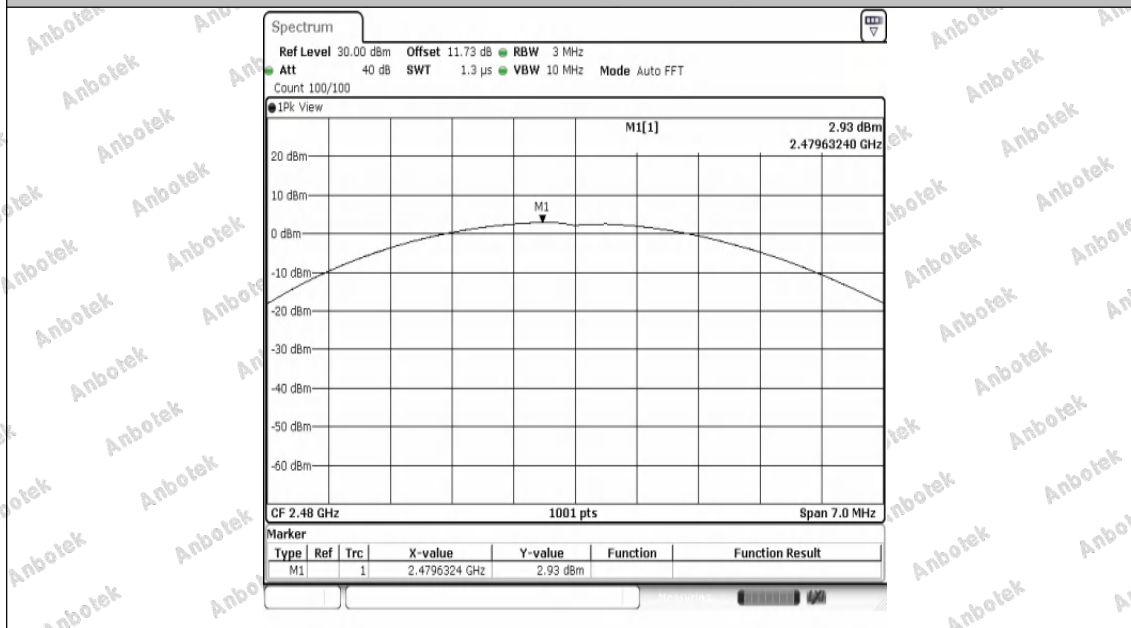


3DH5-Ant1-2402-PASS





3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS

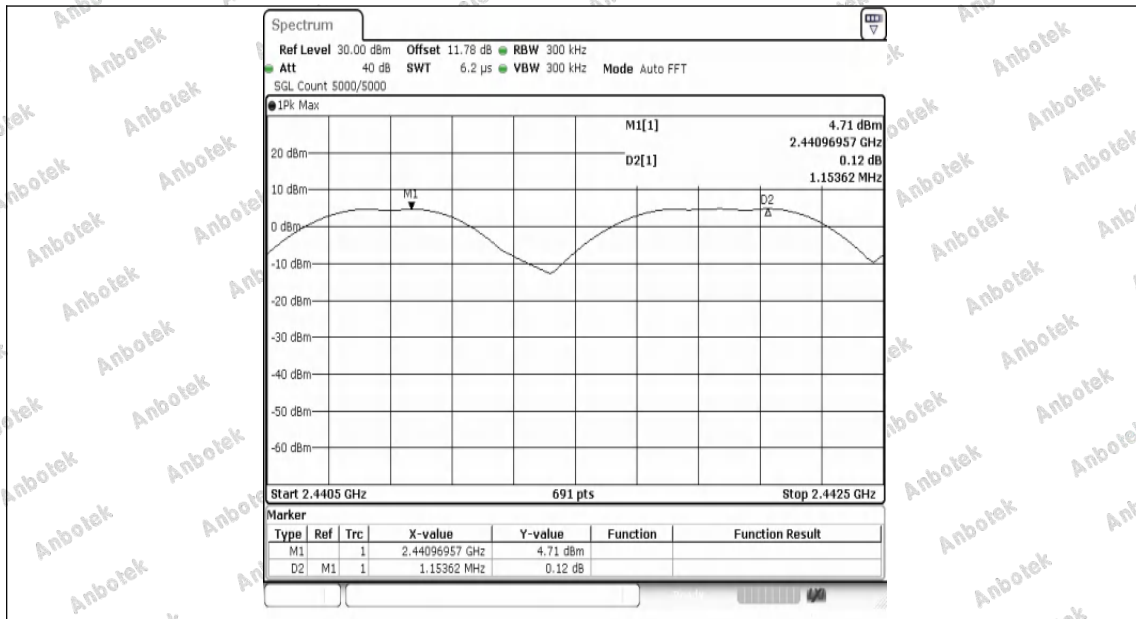


Appendix D: Carrier frequency separation

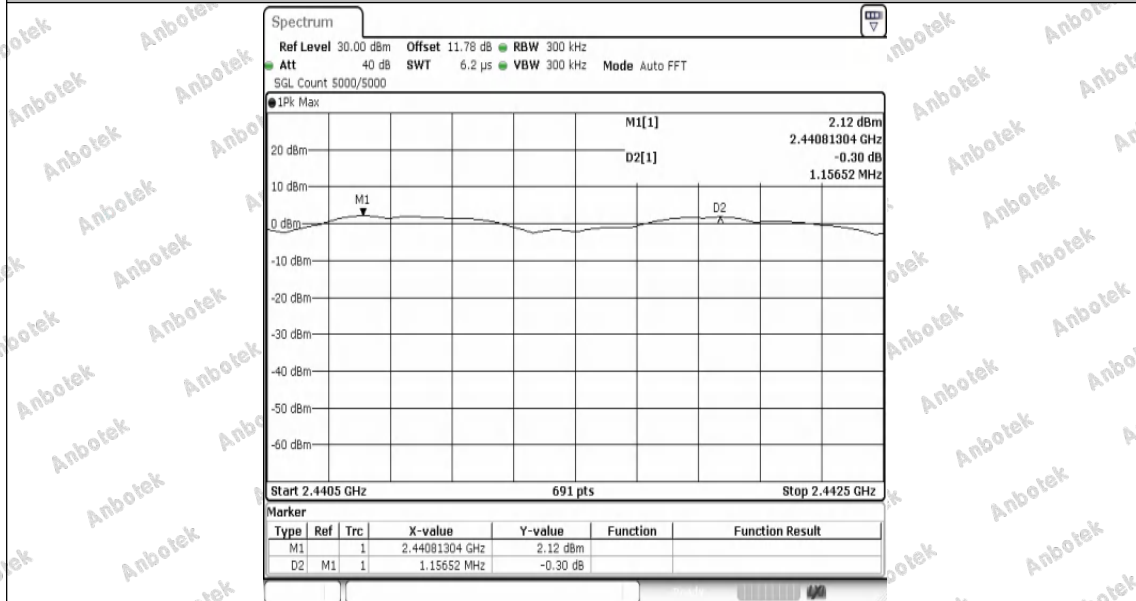
Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.154	≥0.573	PASS
2DH5	Ant1	Hop	1.157	≥0.900	PASS
3DH5	Ant1	Hop	1.301	≥0.893	PASS

Test Graphs

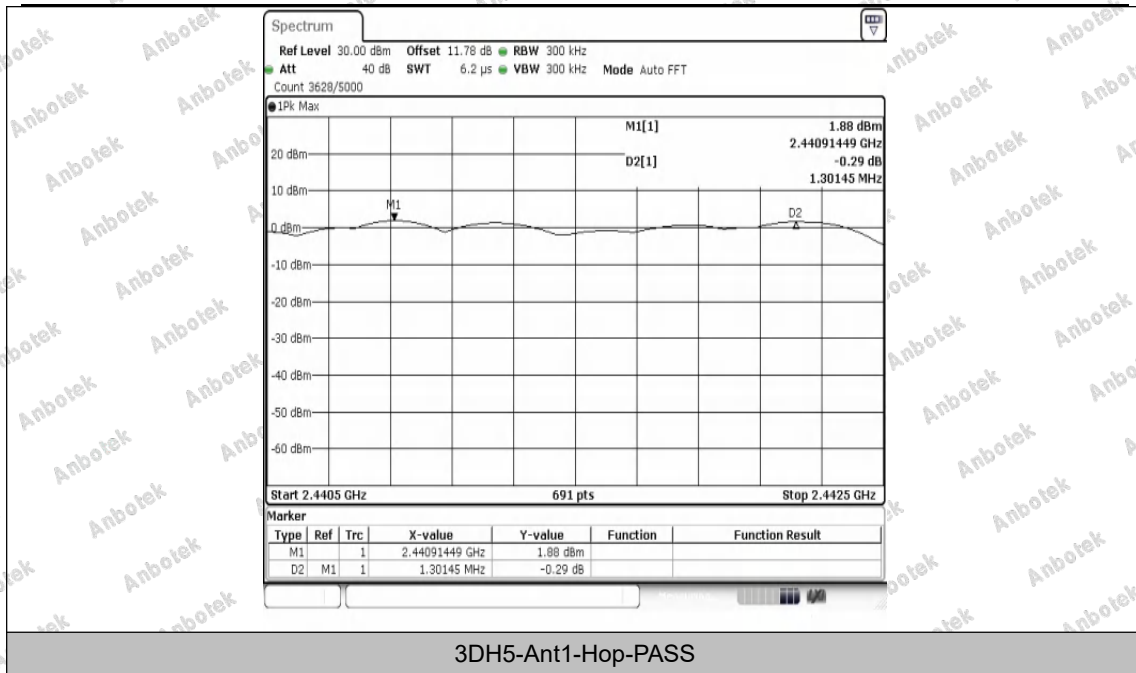


DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS



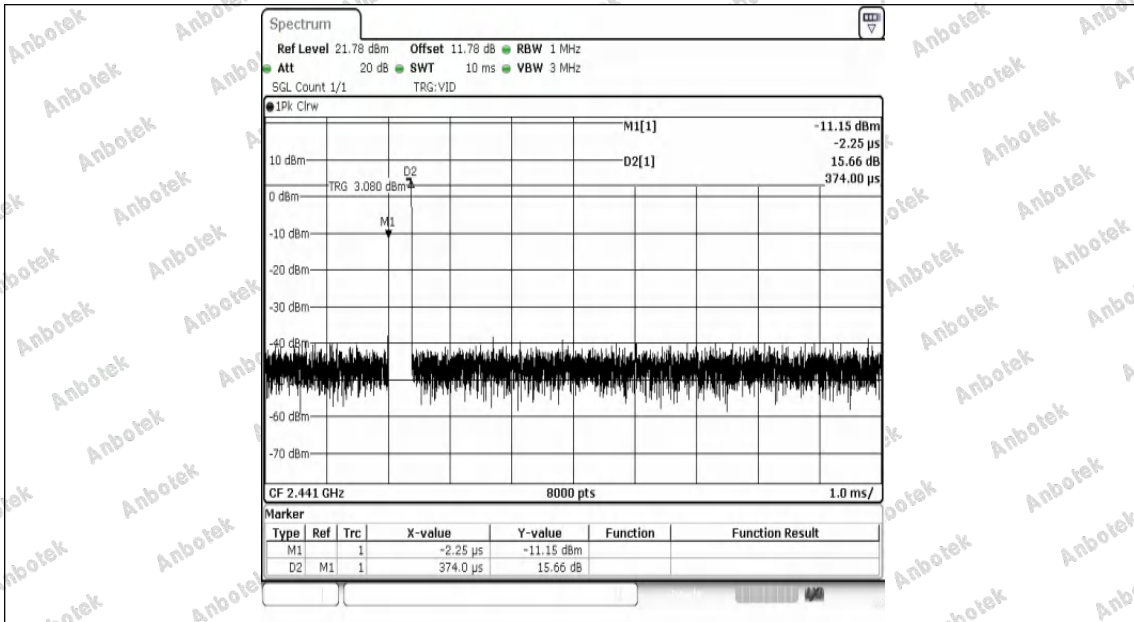
Appendix E: Time of occupancy

Test Result

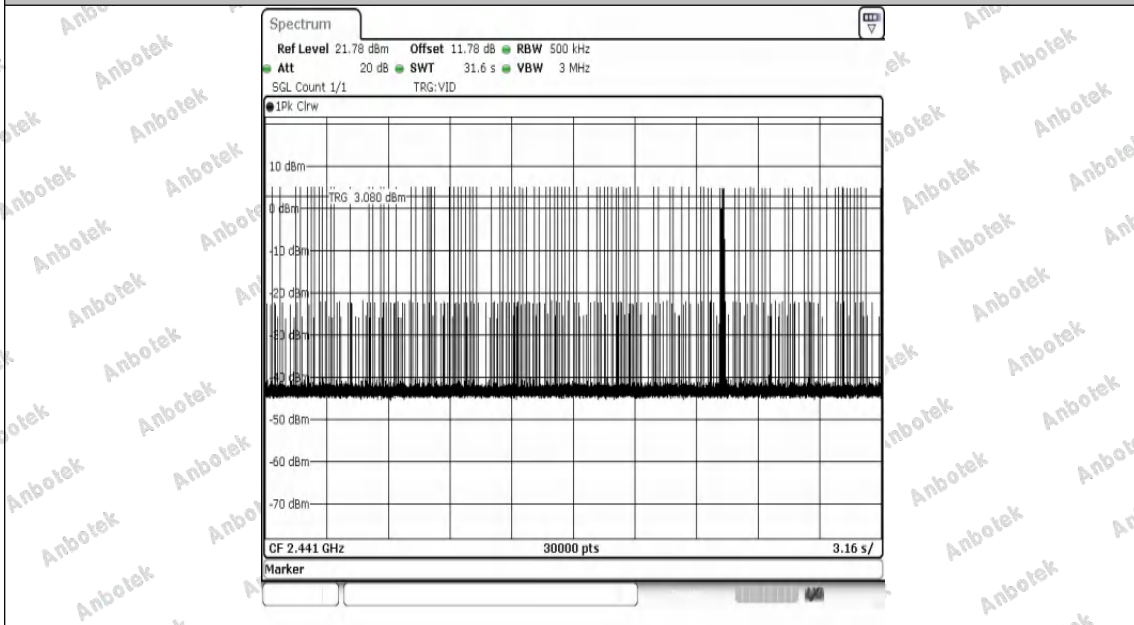
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.374	111	0.042	≤0.4	PASS
DH3	Ant1	Hop	1.629	67	0.109	≤0.4	PASS
DH5	Ant1	Hop	2.879	36	0.104	≤0.4	PASS
2DH1	Ant1	Hop	0.381	134	0.051	≤0.4	PASS
2DH3	Ant1	Hop	1.623	53	0.086	≤0.4	PASS
2DH5	Ant1	Hop	1.521	55	0.084	≤0.4	PASS
3DH1	Ant1	Hop	0.383	120	0.046	≤0.4	PASS
3DH3	Ant1	Hop	1.634	71	0.116	≤0.4	PASS
3DH5	Ant1	Hop	1.065	34	0.036	≤0.4	PASS

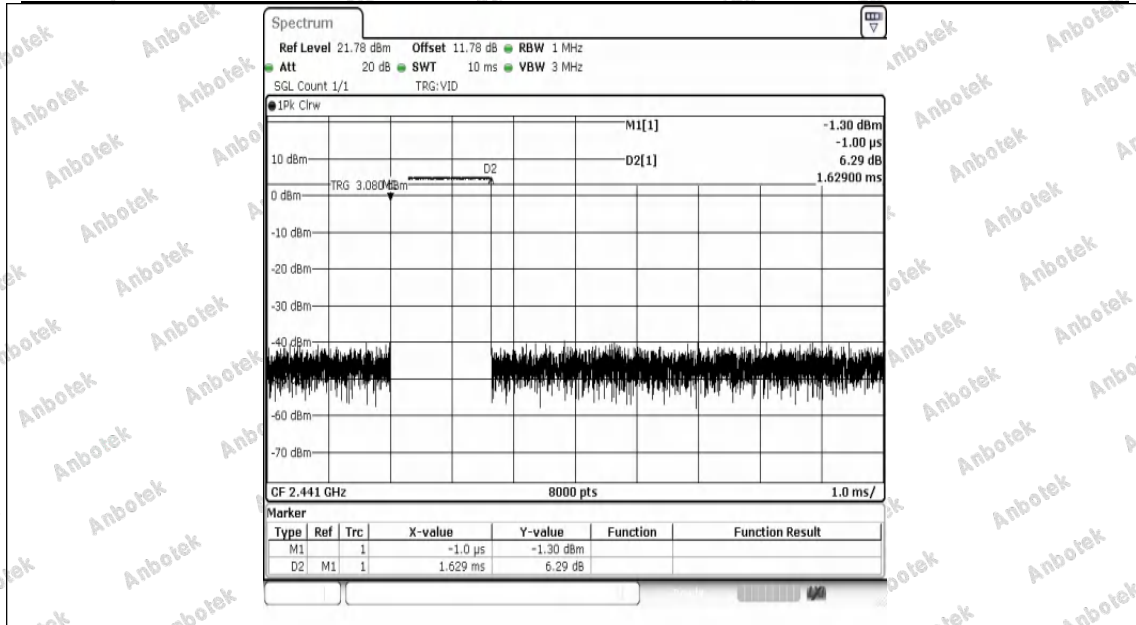


Test Graphs

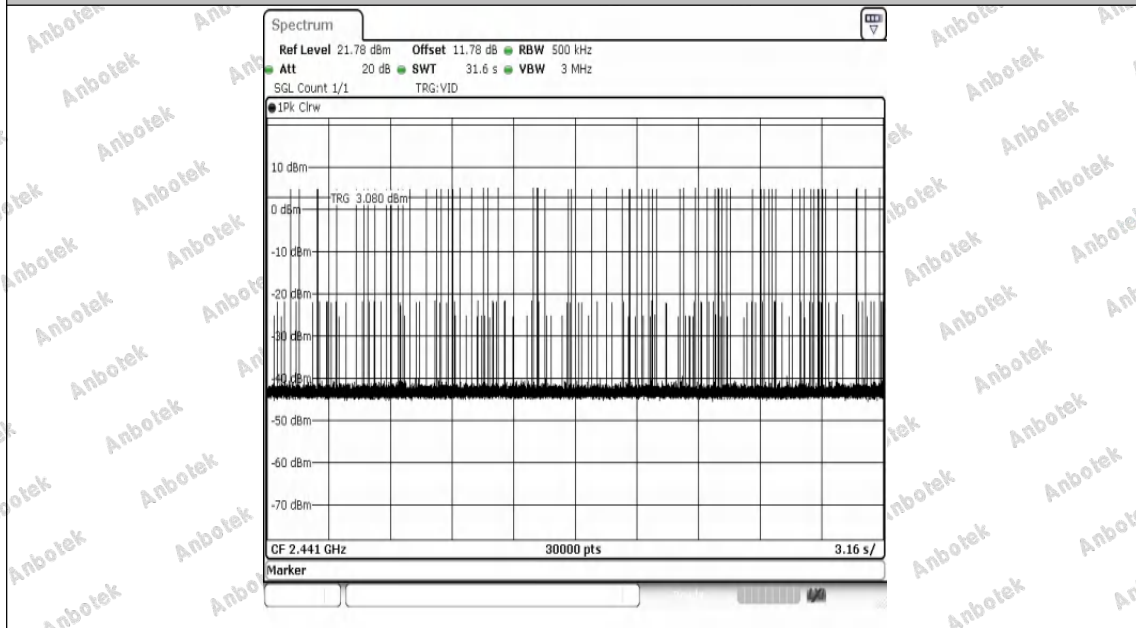


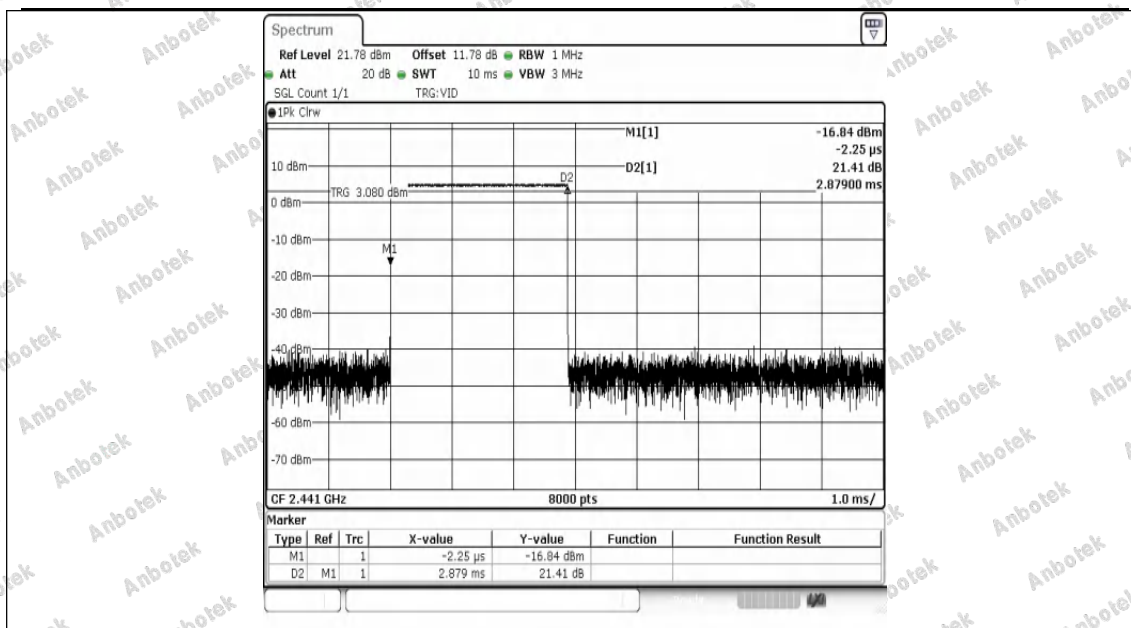
DH1-Ant1-Hop-PASS



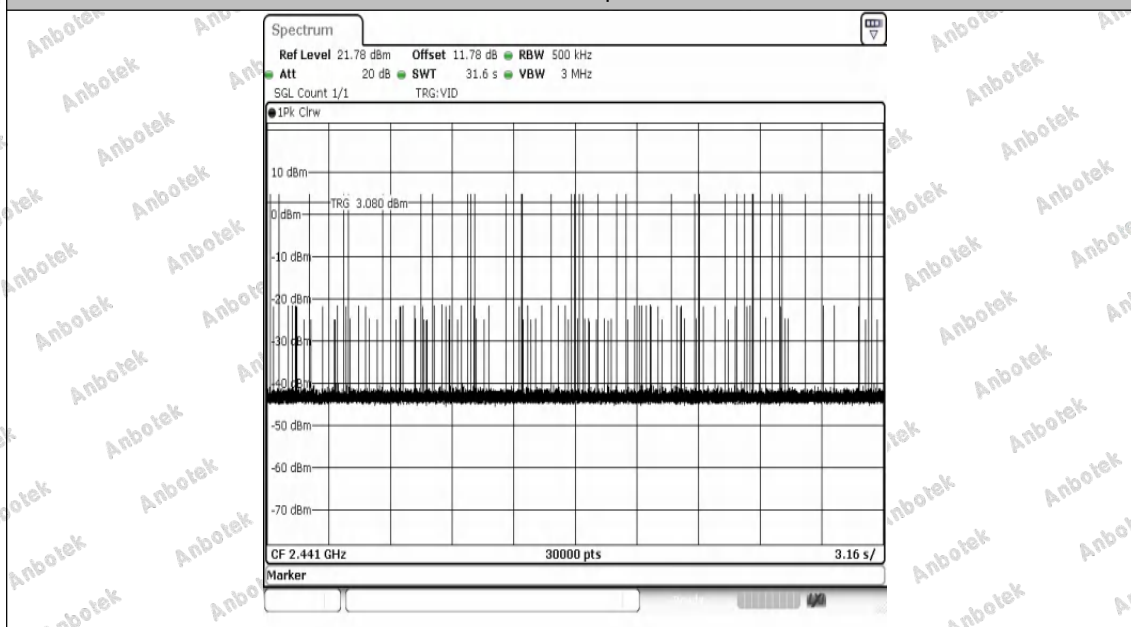


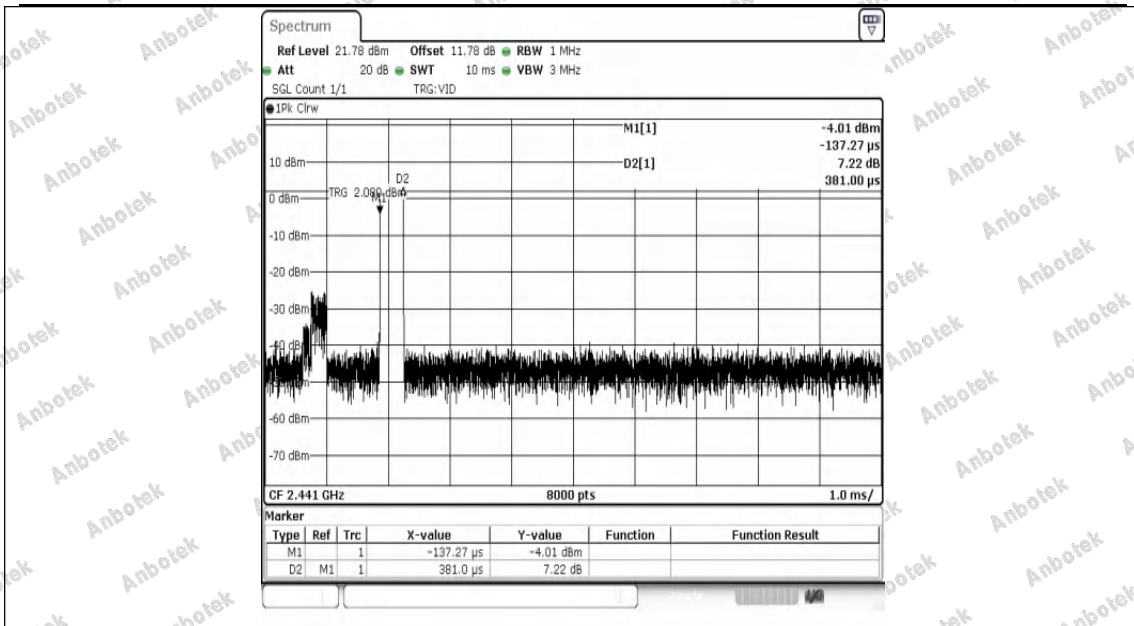
DH3-Ant1-Hop-PASS



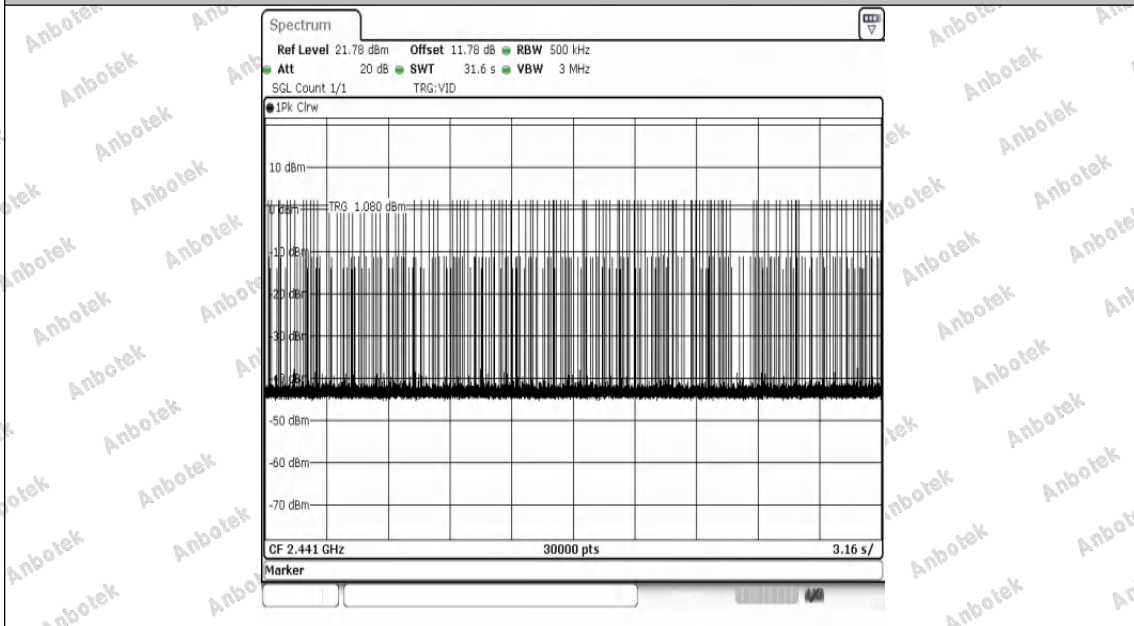


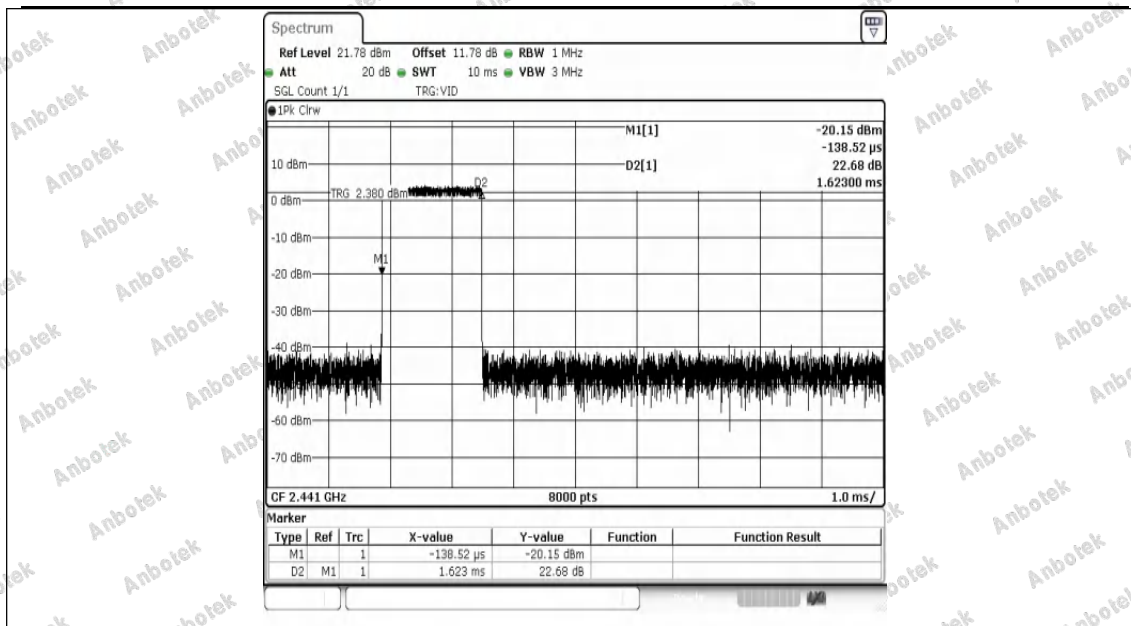
DH5-Ant1-Hop-PASS



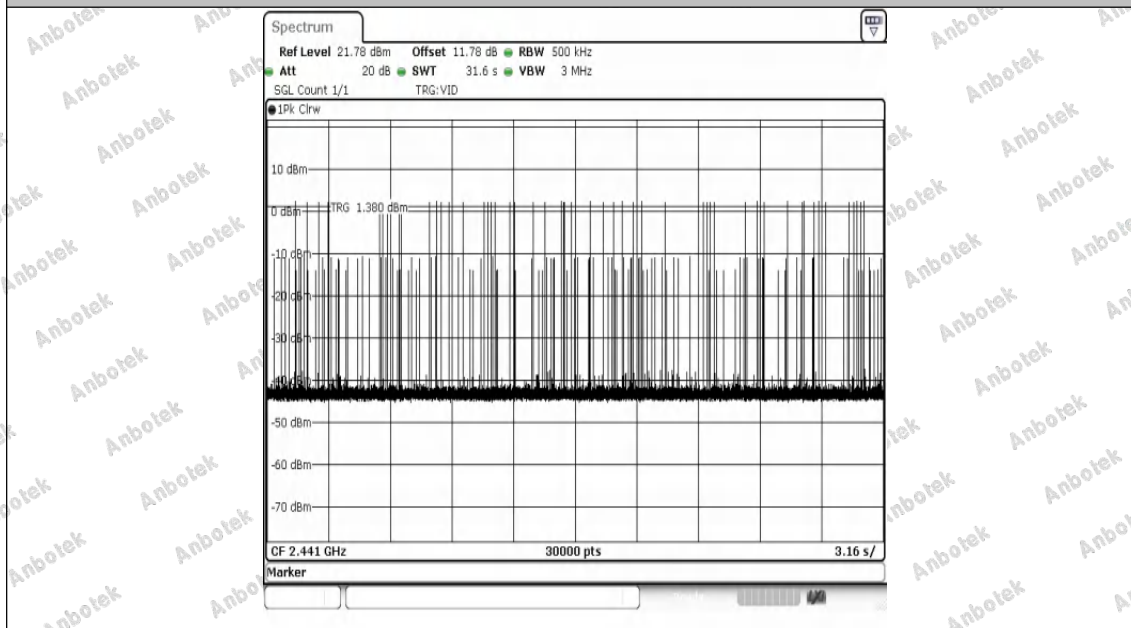


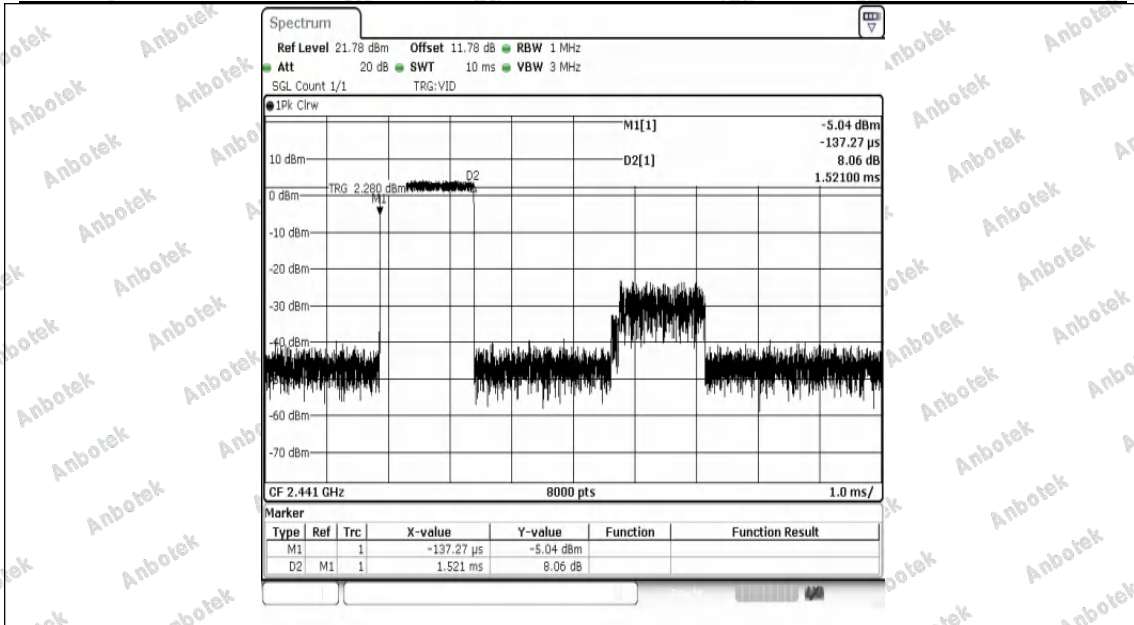
2DH1-Ant1-Hop-PASS



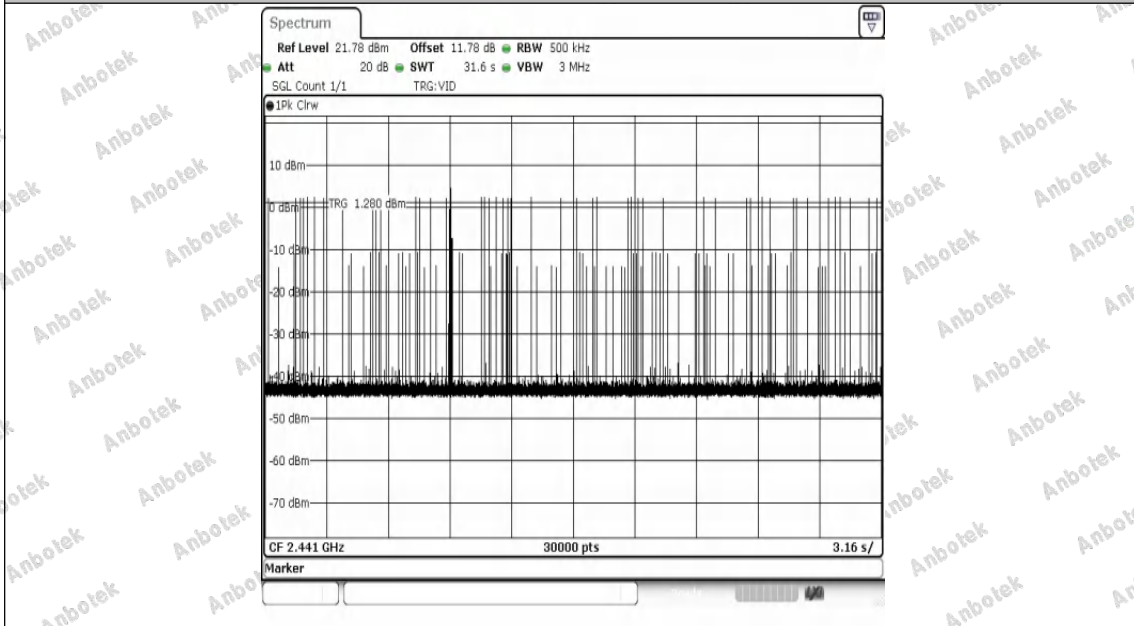


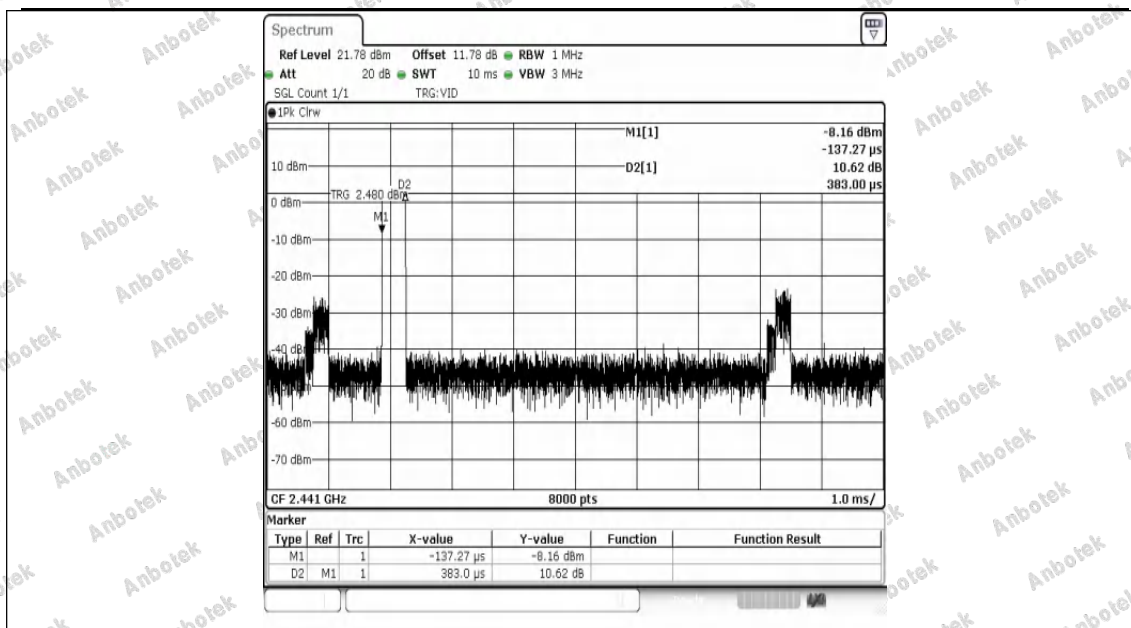
2DH3-Ant1-Hop-PASS



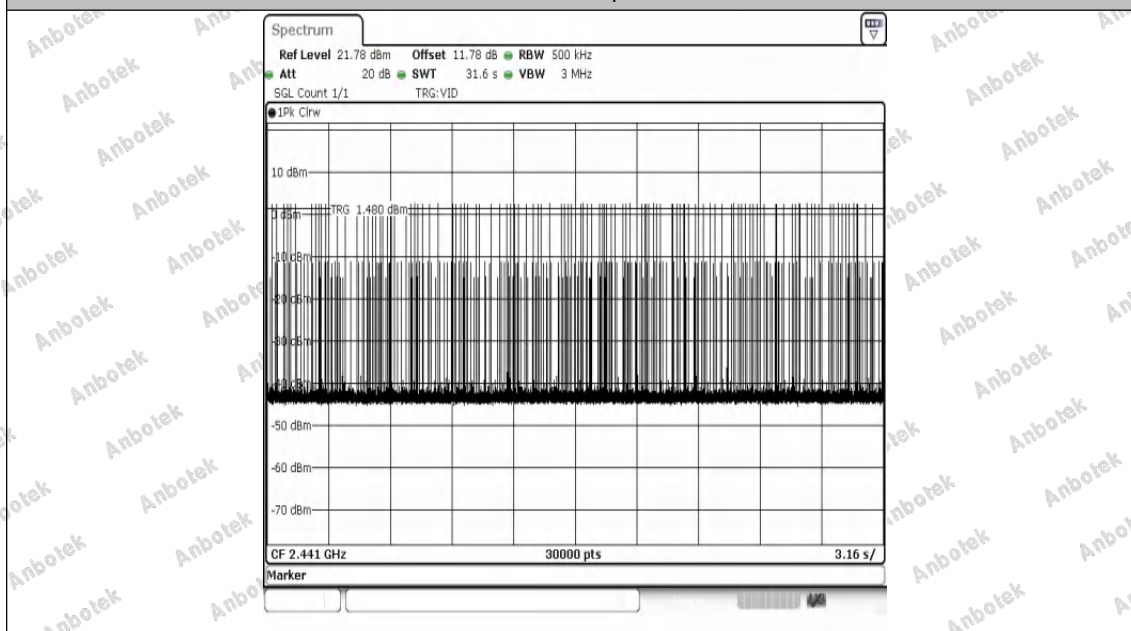


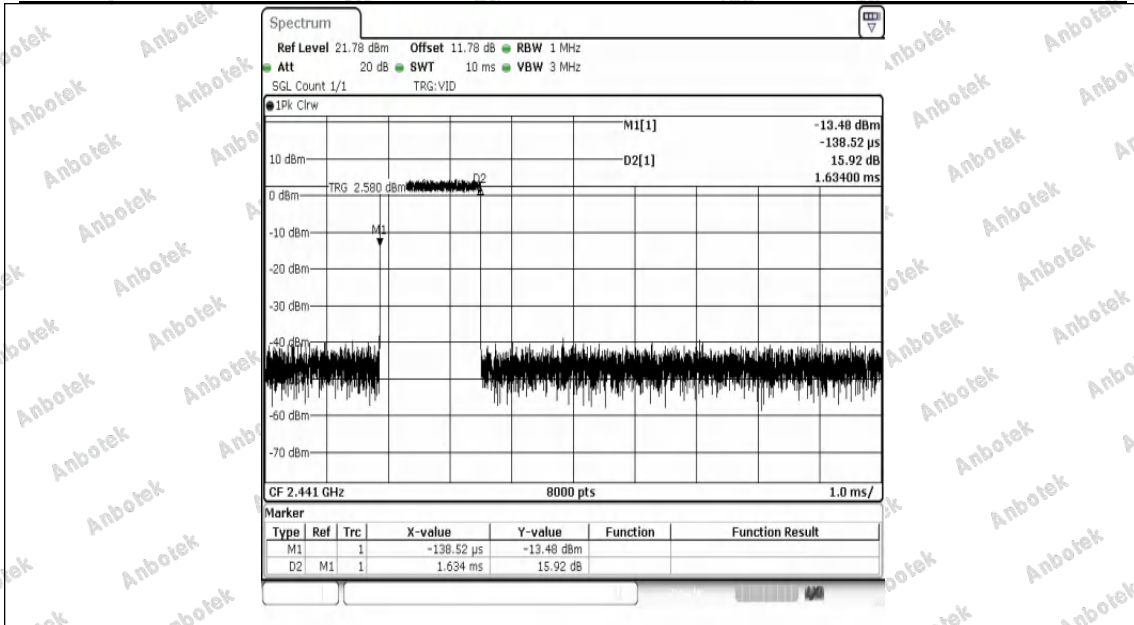
2DH5-Ant1-Hop-PASS



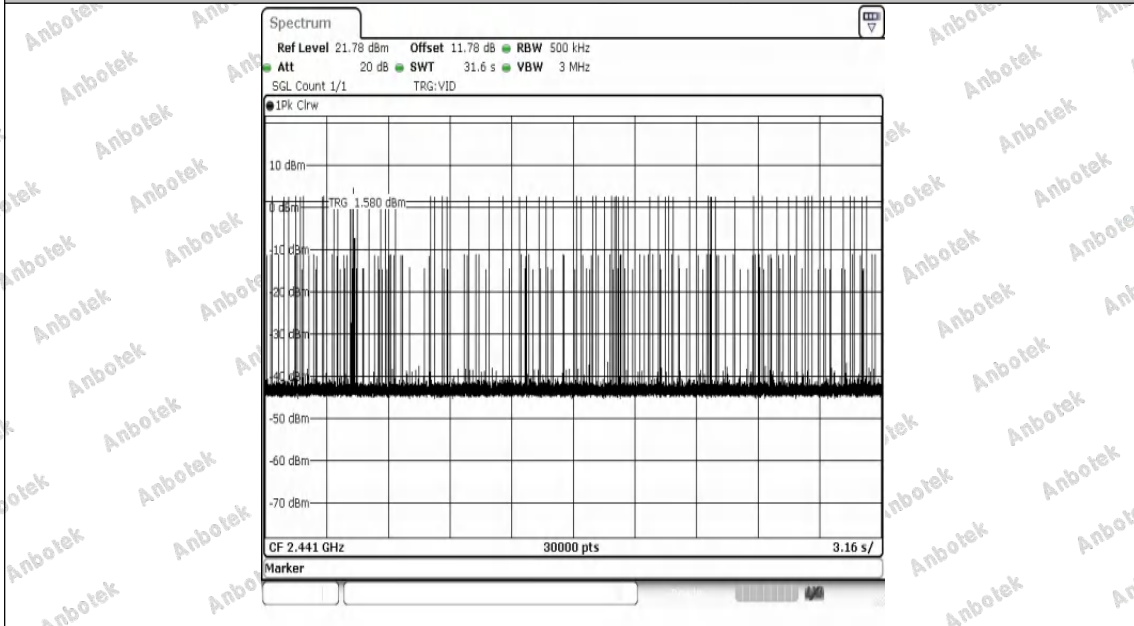


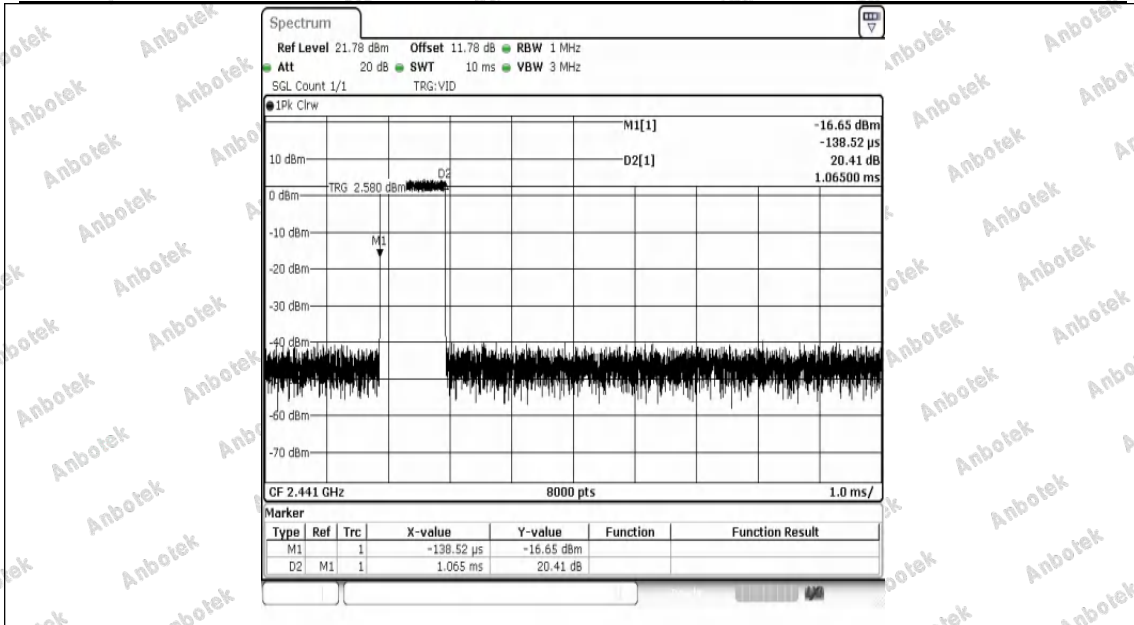
3DH1-Ant1-Hop-PASS



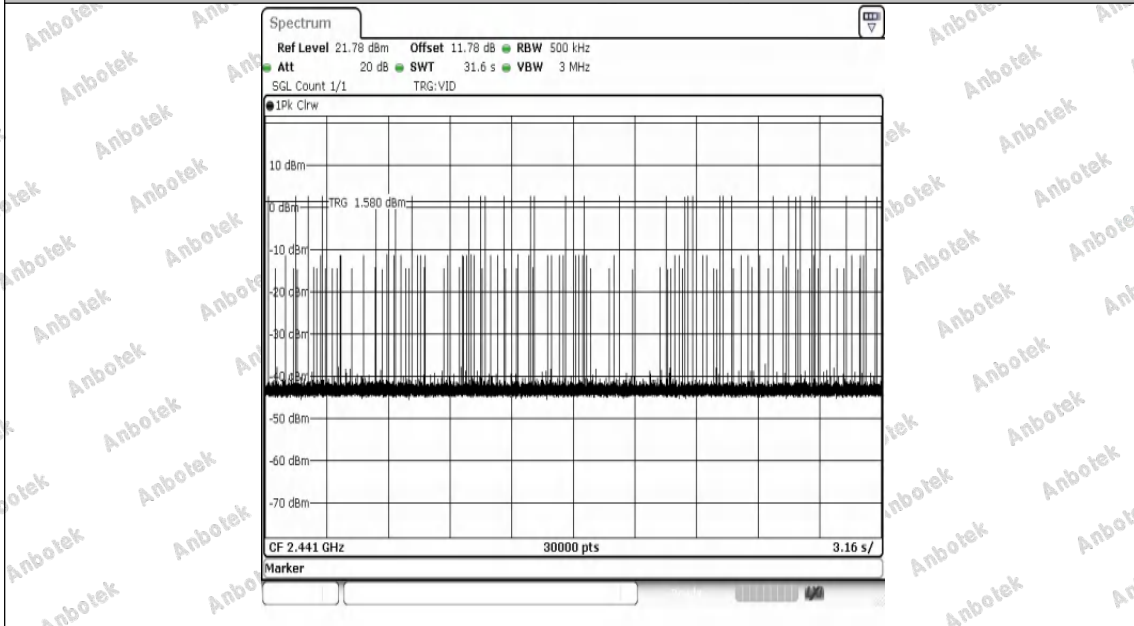


3DH3-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS

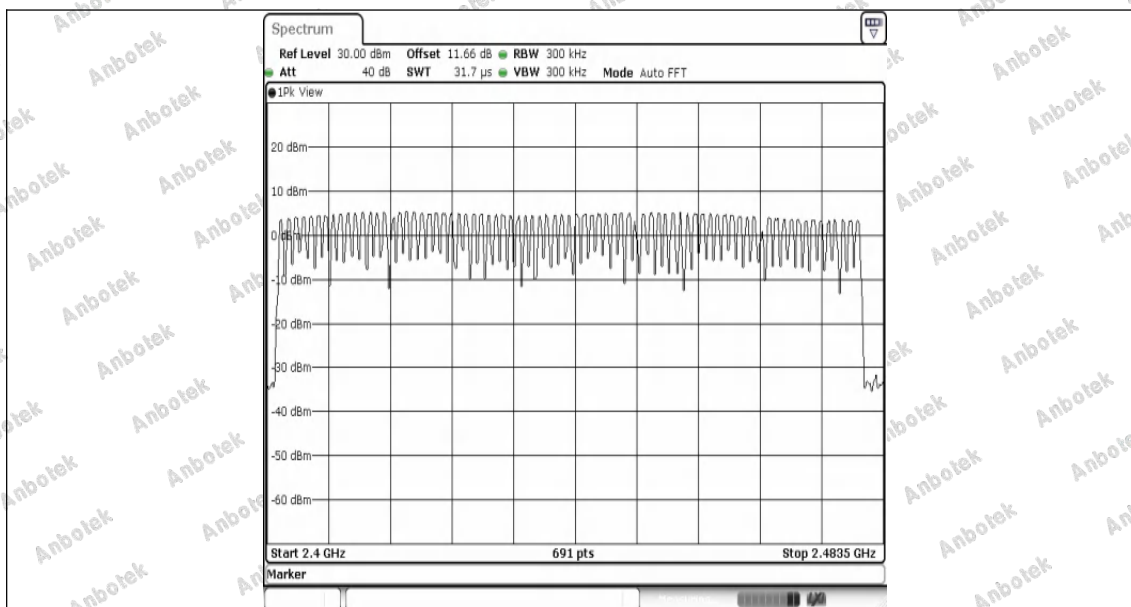


Appendix F: Number of hopping channels

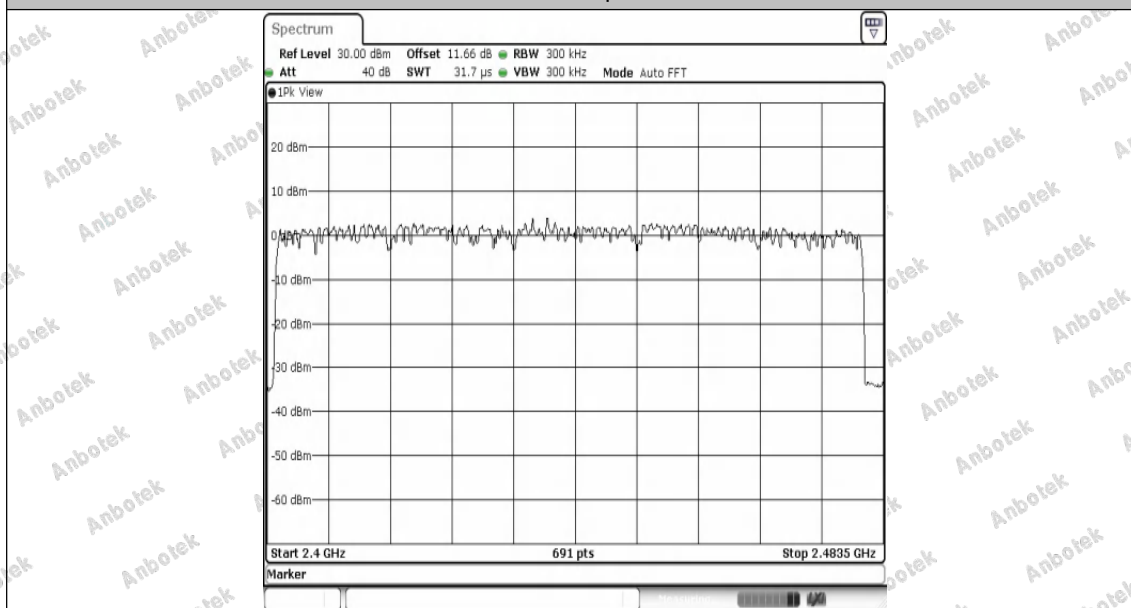
Test Result

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

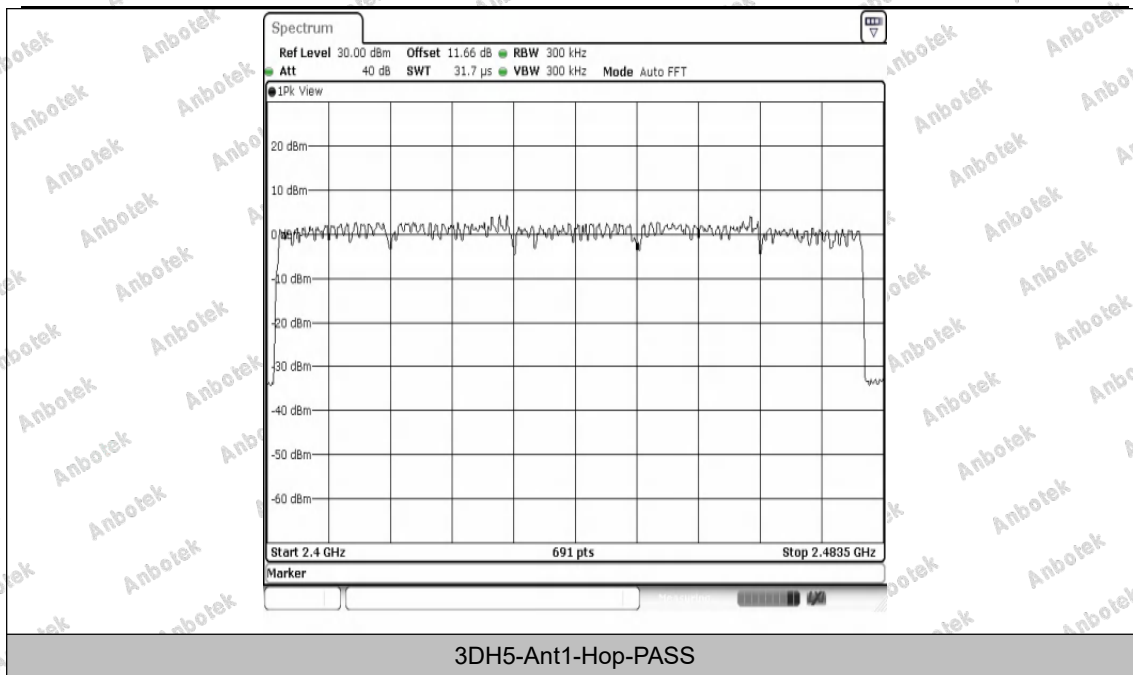


DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS





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400-003-0500
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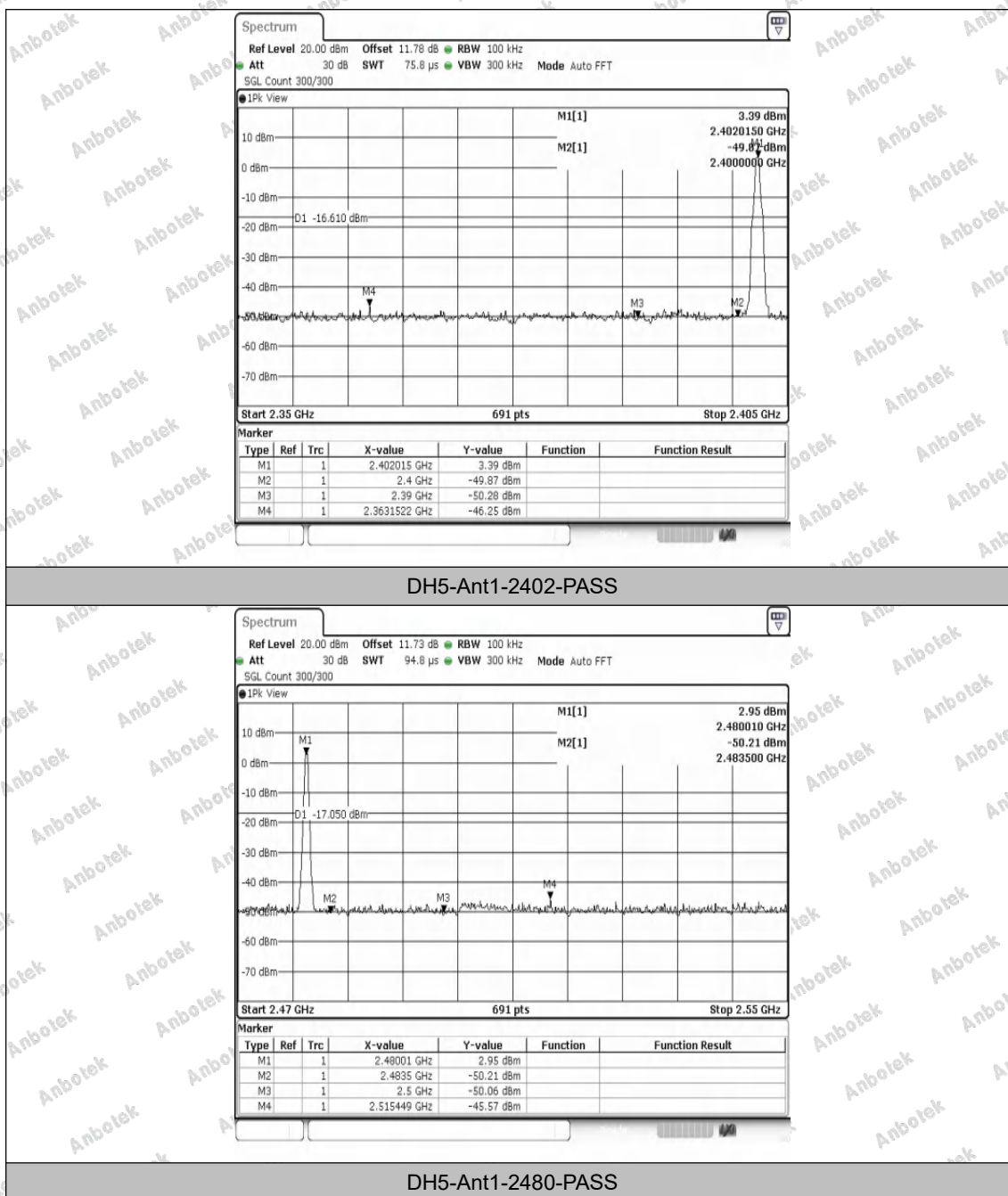
Appendix G: Band edge measurements

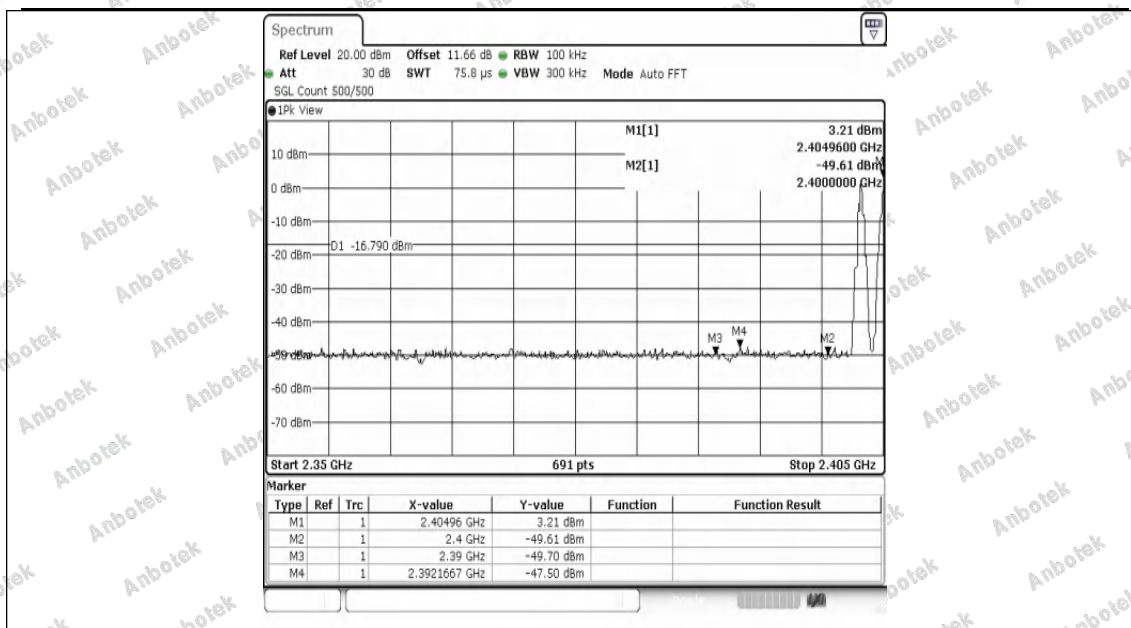
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.39	-46.25	≤-16.61	PASS
DH5	Ant1	High	2480	2.95	-45.57	≤-17.05	PASS
DH5	Ant1	Low	Hop_2402	3.21	-47.5	≤-16.79	PASS
DH5	Ant1	High	Hop_2480	3.06	-45.68	≤-16.94	PASS
2DH5	Ant1	Low	2402	-0.55	-47.36	≤-20.55	PASS
2DH5	Ant1	High	2480	-0.23	-45.77	≤-20.23	PASS
2DH5	Ant1	Low	Hop_2402	-0.42	-46.97	≤-20.42	PASS
2DH5	Ant1	High	Hop_2480	0.75	-45.52	≤-19.25	PASS
3DH5	Ant1	Low	2402	0.36	-47.68	≤-19.64	PASS
3DH5	Ant1	High	2480	-0.94	-46.02	≤-20.94	PASS
3DH5	Ant1	Low	Hop_2402	-2.74	-46.88	≤-22.74	PASS
3DH5	Ant1	High	Hop_2480	-1.93	-45.91	≤-21.93	PASS

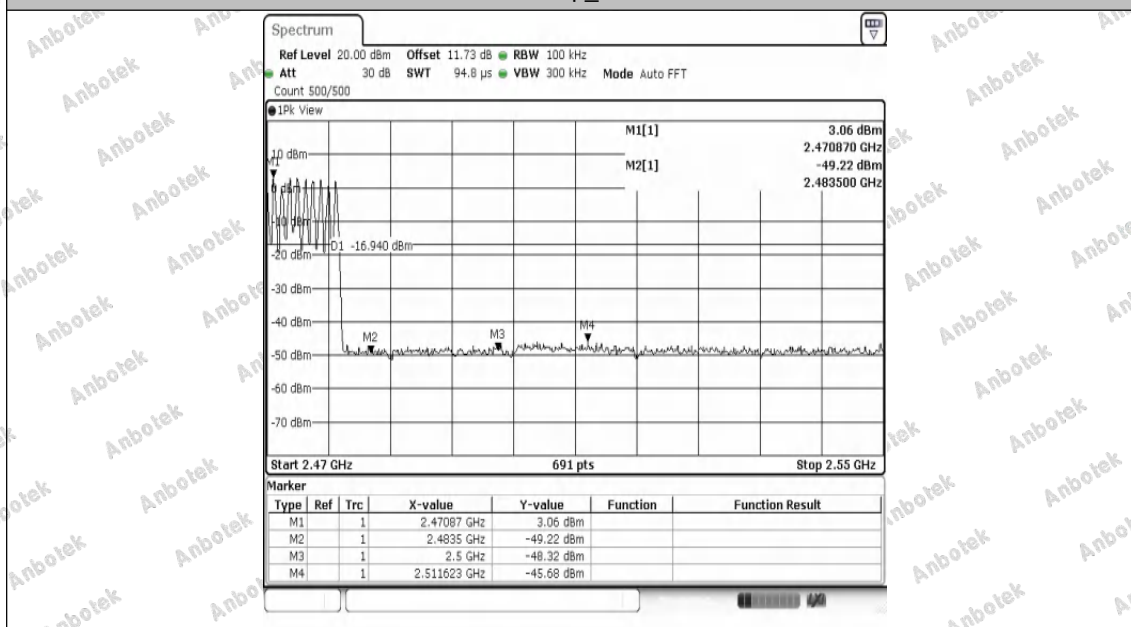


Test Graphs



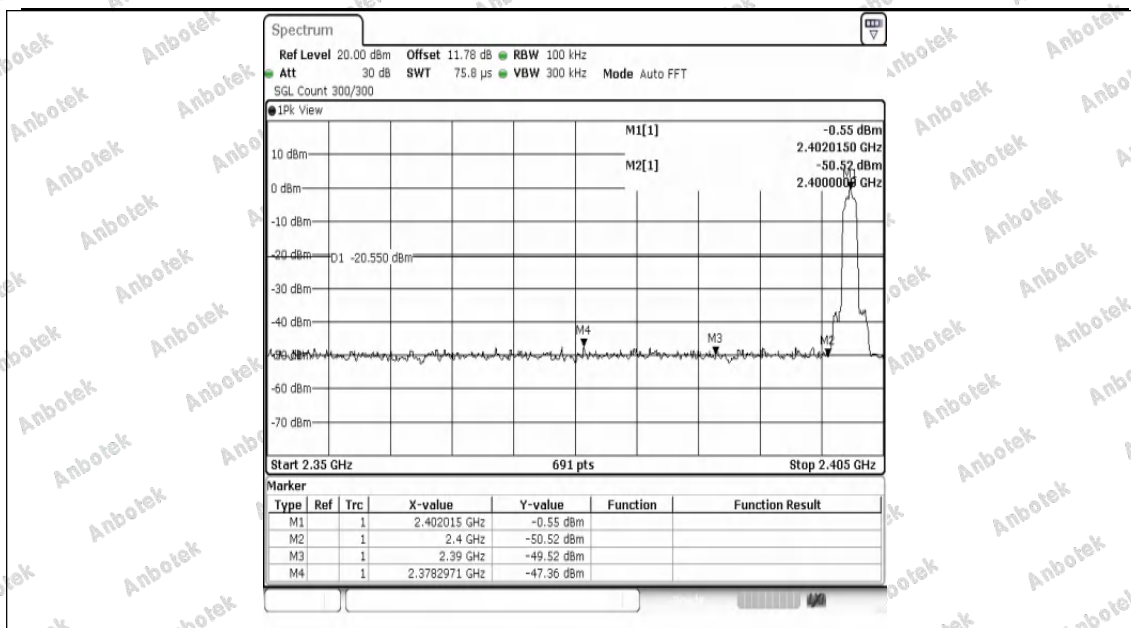


DH5-Ant1-Hop_2402-PASS

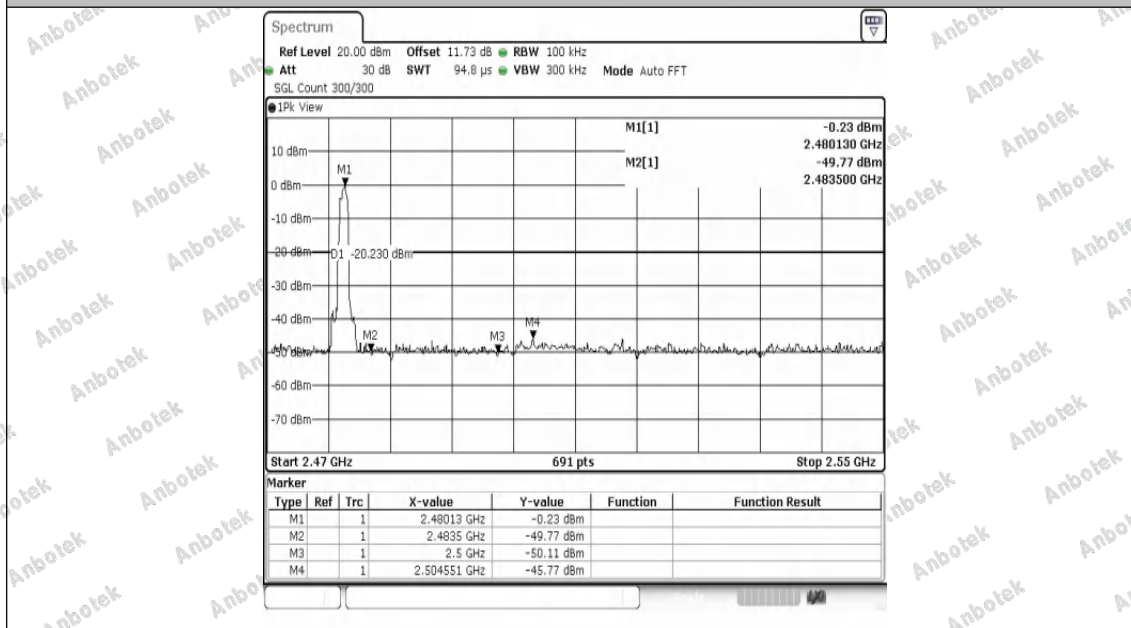


DH5-Ant1-Hop_2480-PASS



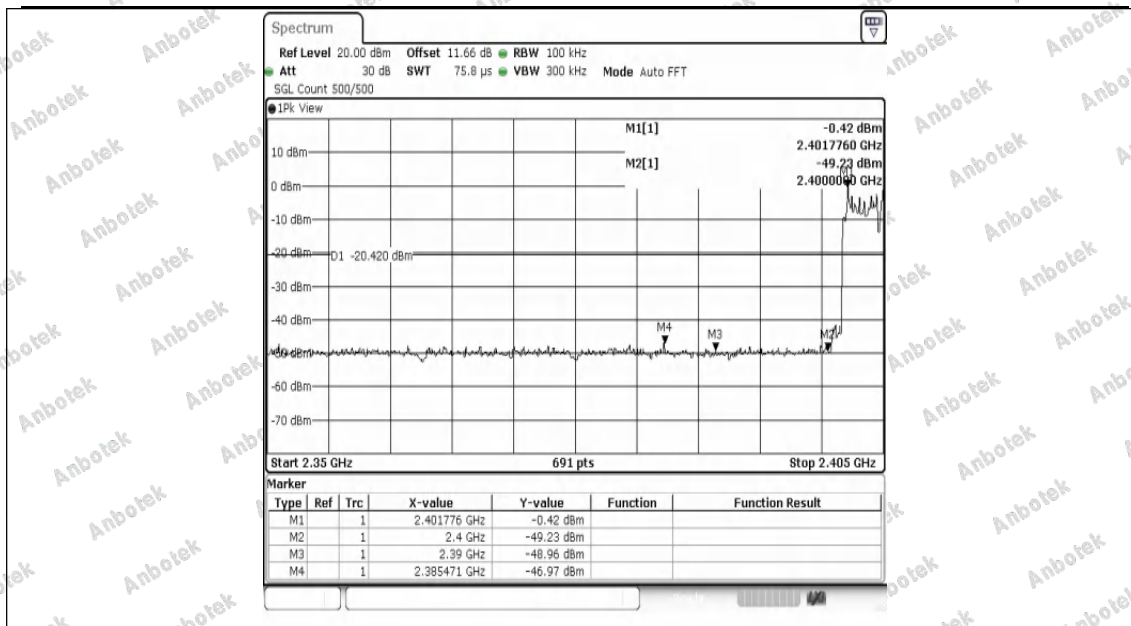


2DH5-Ant1-2402-PASS

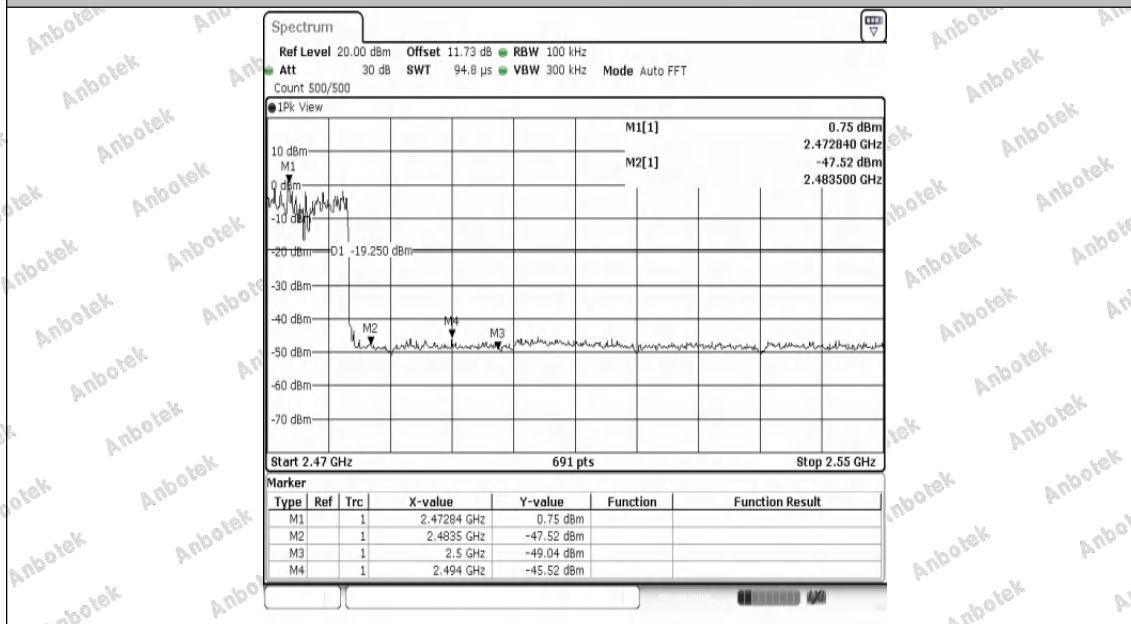


2DH5-Ant1-2480-PASS



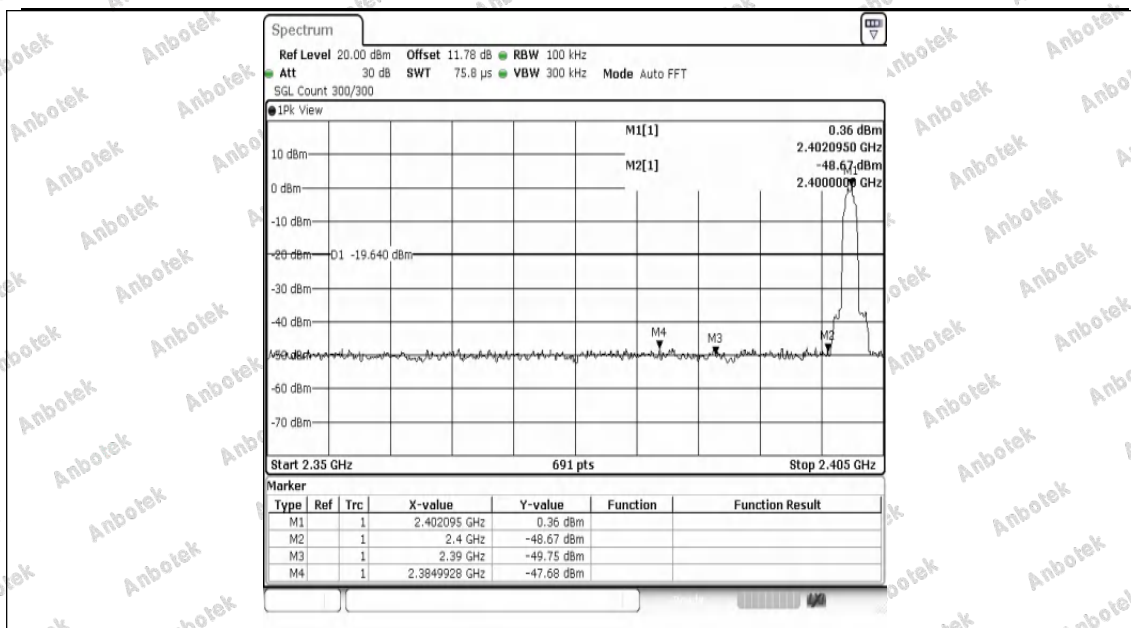


2DH5-Ant1-Hop_2402-PASS

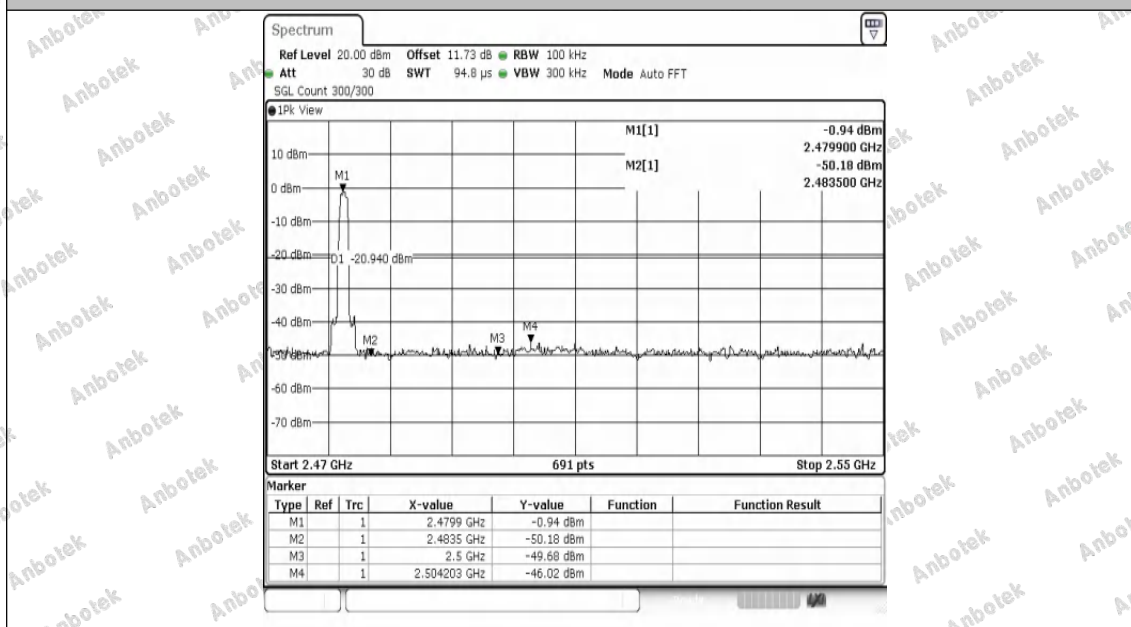


2DH5-Ant1-Hop_2480-PASS



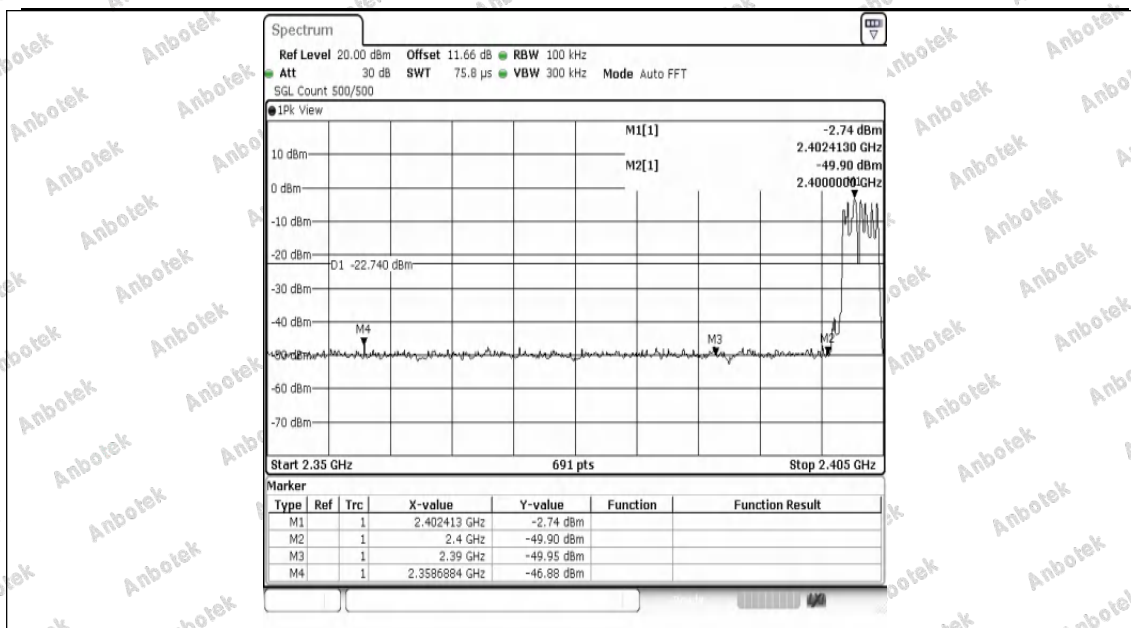


3DH5-Ant1-2402-PASS

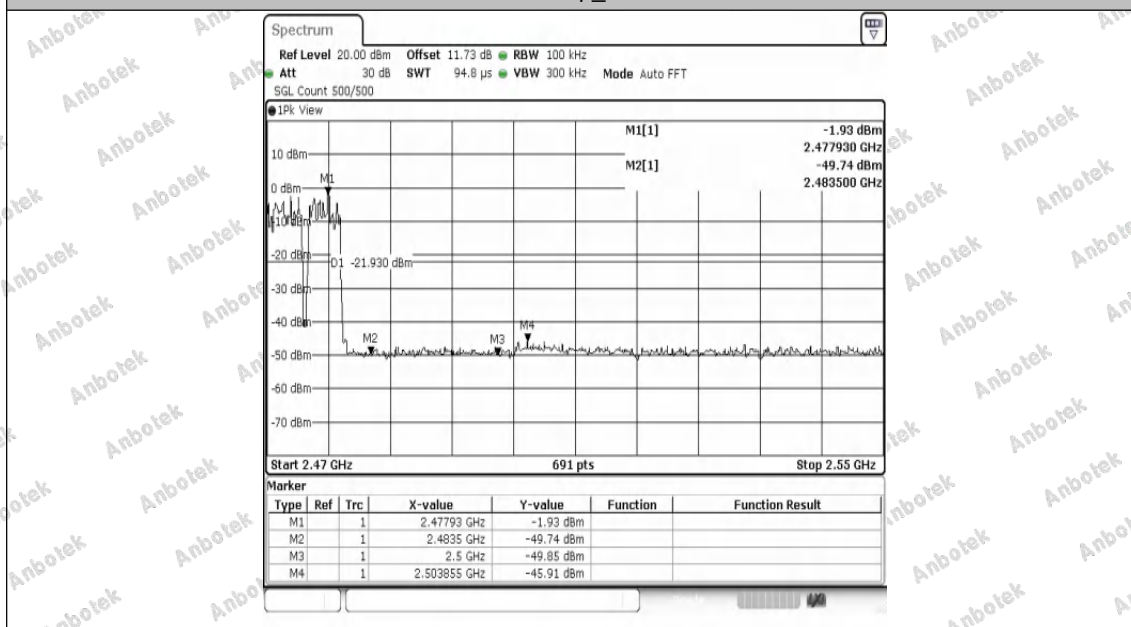


3DH5-Ant1-2480-PASS





3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS



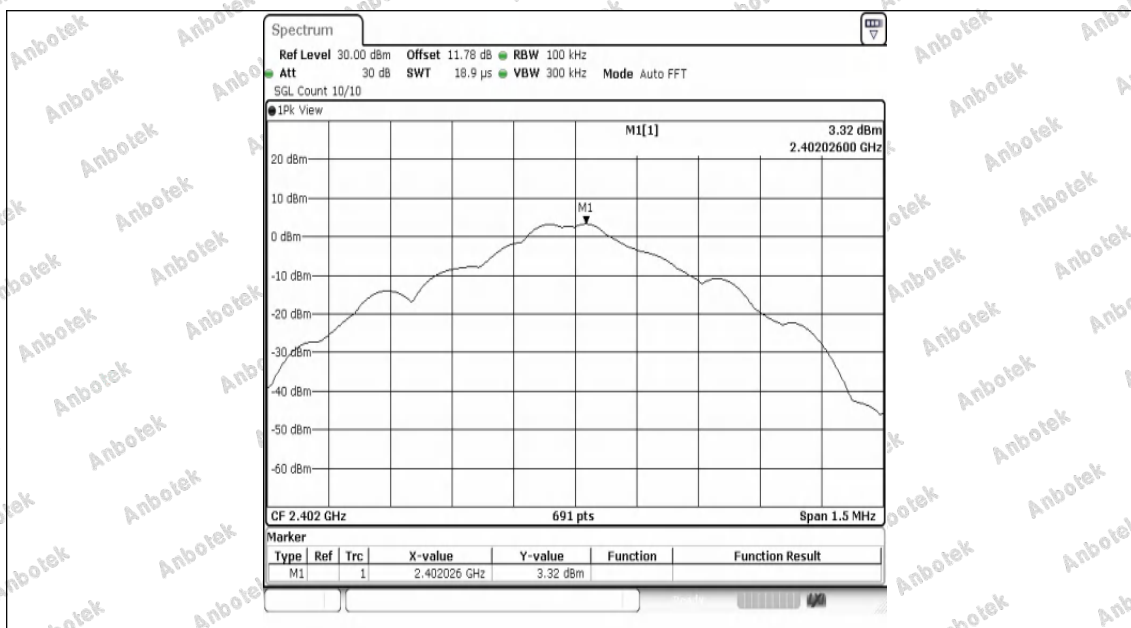
Appendix H: Conducted Spurious Emission

Test Result

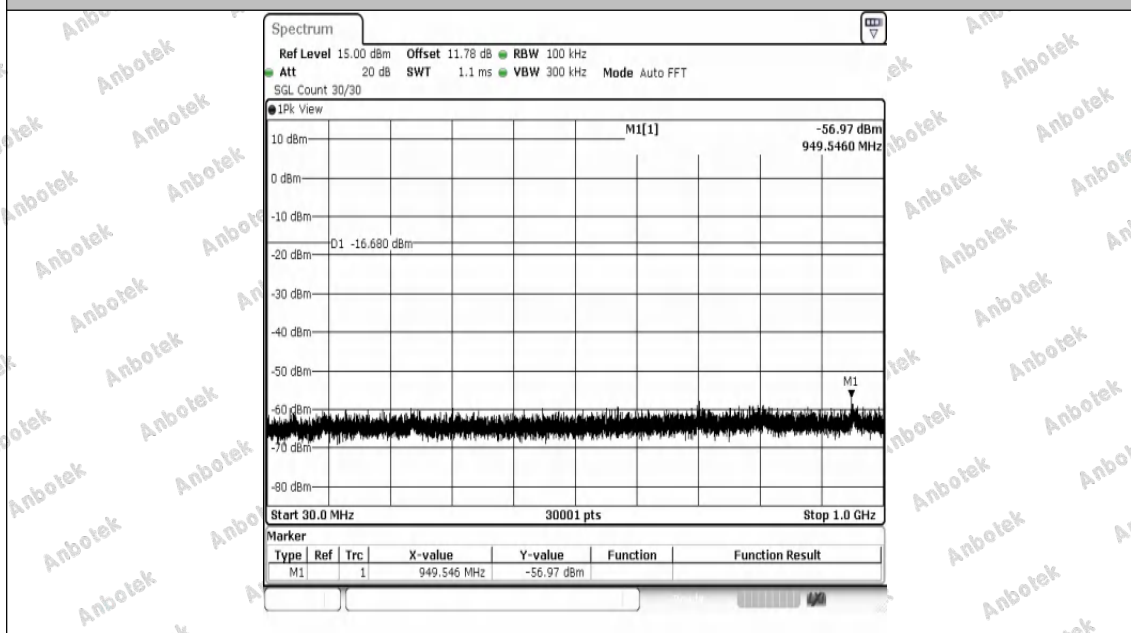
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	3.32	3.32	---	PASS
DH5	Ant1	2402	30~1000	3.32	-56.97	≤-16.68	PASS
DH5	Ant1	2402	1000~26500	3.32	-43.94	≤-16.68	PASS
DH5	Ant1	2441	0~Reference	4.54	4.54	---	PASS
DH5	Ant1	2441	30~1000	4.54	-57.64	≤-15.46	PASS
DH5	Ant1	2441	1000~26500	4.54	-43.74	≤-15.46	PASS
DH5	Ant1	2480	0~Reference	2.13	2.13	---	PASS
DH5	Ant1	2480	30~1000	2.13	-57.67	≤-17.87	PASS
DH5	Ant1	2480	1000~26500	2.13	-43.01	≤-17.87	PASS
2DH5	Ant1	2402	0~Reference	0.14	0.14	---	PASS
2DH5	Ant1	2402	30~1000	0.14	-57.92	≤-19.86	PASS
2DH5	Ant1	2402	1000~26500	0.14	-44.27	≤-19.86	PASS
2DH5	Ant1	2441	0~Reference	1.24	1.24	---	PASS
2DH5	Ant1	2441	30~1000	1.24	-57.71	≤-18.76	PASS
2DH5	Ant1	2441	1000~26500	1.24	-44.2	≤-18.76	PASS
2DH5	Ant1	2480	0~Reference	-3.25	-3.25	---	PASS
2DH5	Ant1	2480	30~1000	-3.25	-57.88	≤-23.25	PASS
2DH5	Ant1	2480	1000~26500	-3.25	-44.27	≤-23.25	PASS
3DH5	Ant1	2402	0~Reference	-3.55	-3.55	---	PASS
3DH5	Ant1	2402	30~1000	-3.55	-57.74	≤-23.55	PASS
3DH5	Ant1	2402	1000~26500	-3.55	-43.3	≤-23.55	PASS
3DH5	Ant1	2441	0~Reference	0.26	0.26	---	PASS
3DH5	Ant1	2441	30~1000	0.26	-58.55	≤-19.74	PASS
3DH5	Ant1	2441	1000~26500	0.26	-43.06	≤-19.74	PASS
3DH5	Ant1	2480	0~Reference	-3.47	-3.47	---	PASS
3DH5	Ant1	2480	30~1000	-3.47	-58.35	≤-23.47	PASS
3DH5	Ant1	2480	1000~26500	-3.47	-43.71	≤-23.47	PASS



Test Graphs

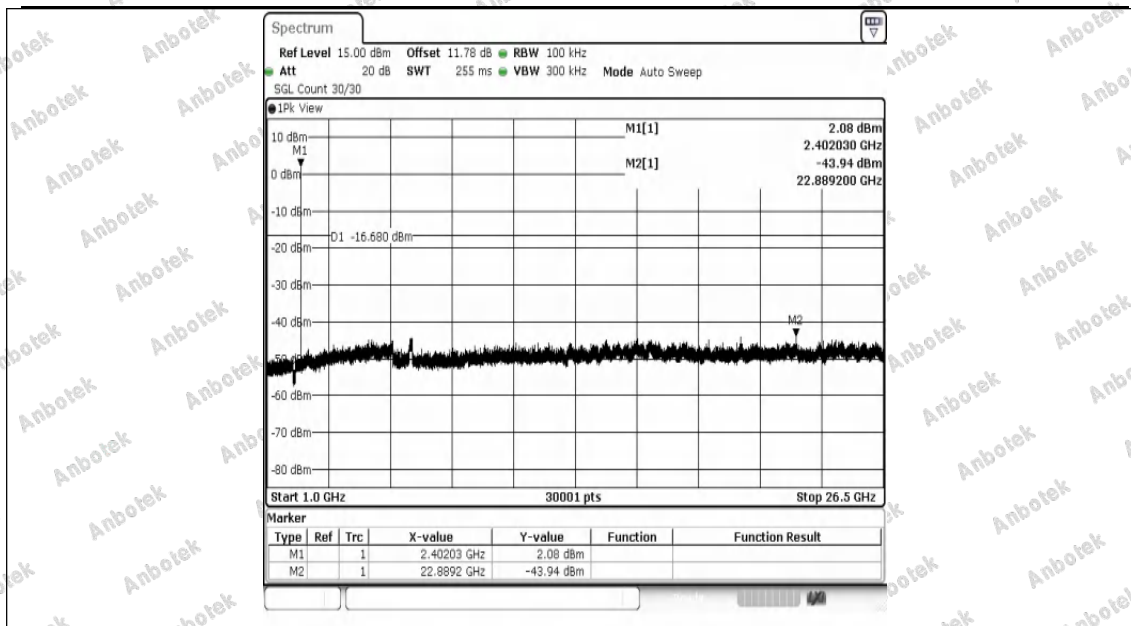


DH5-Ant1-2402-0~Reference-PASS

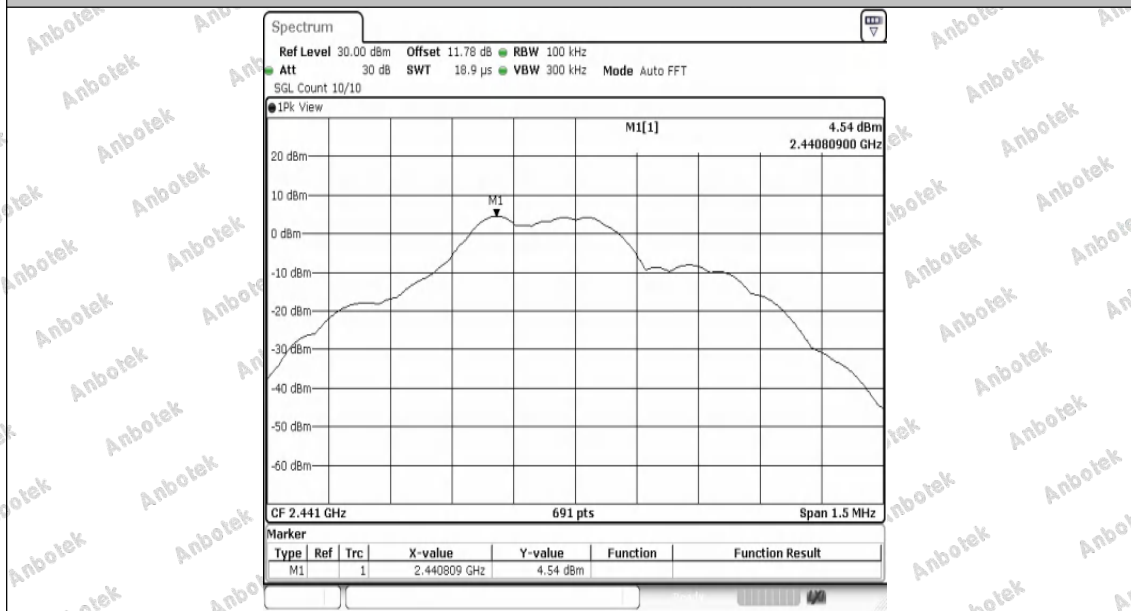


DH5-Ant1-2402-30~1000-PASS



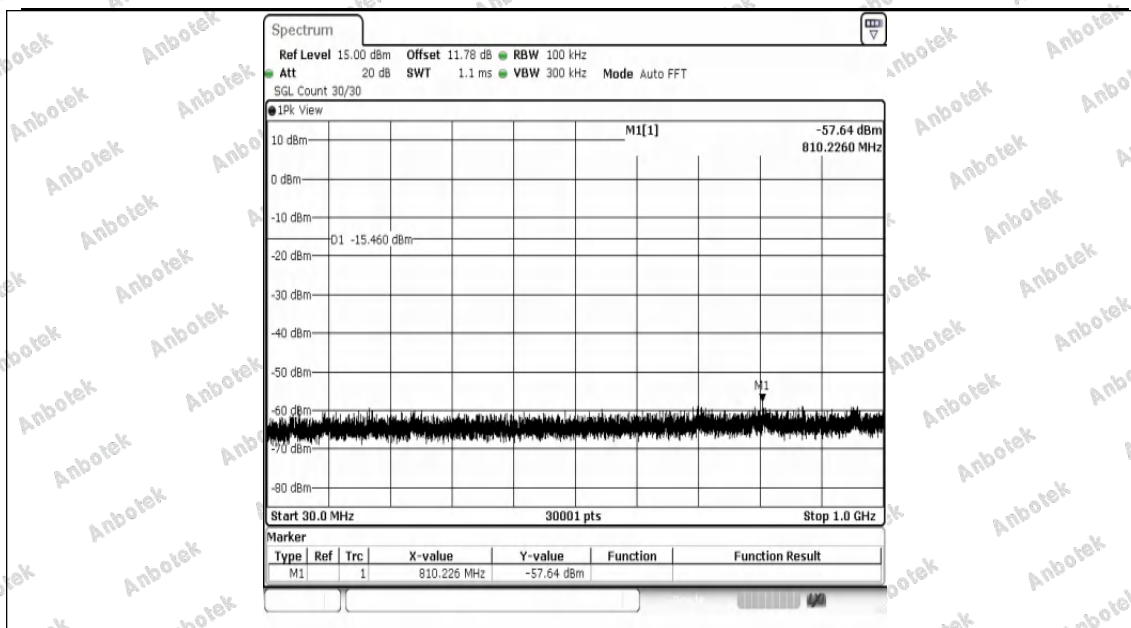


DH5-Ant1-2402-1000~26500-PASS

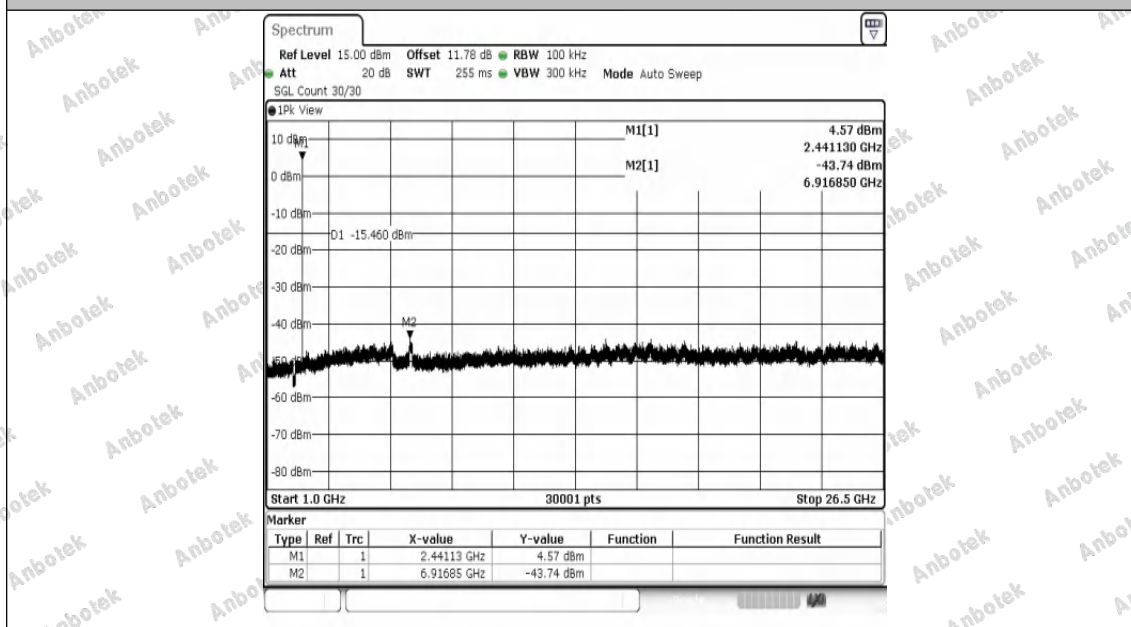


DH5-Ant1-2441-0~Reference-PASS



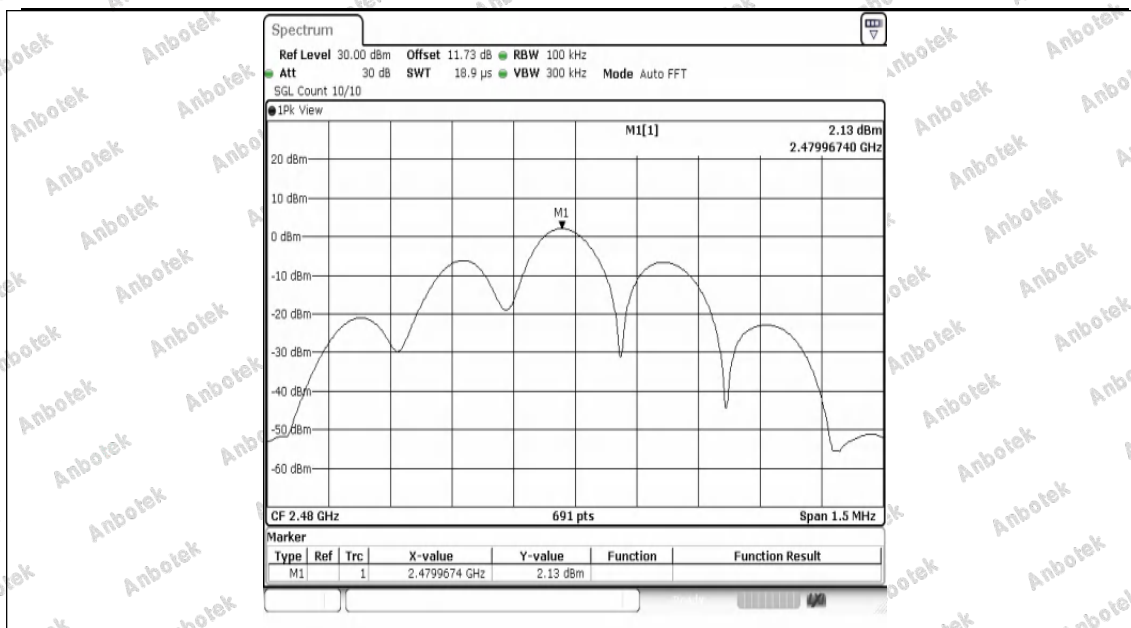


DH5-Ant1-2441-30~1000-PASS

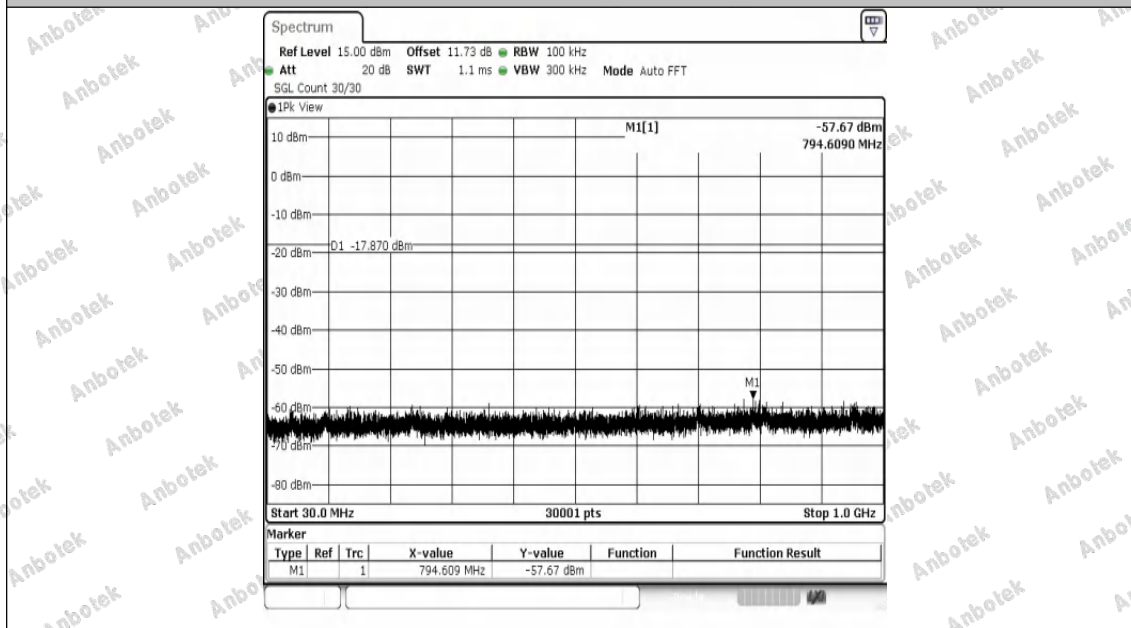


DH5-Ant1-2441-1000~26500-PASS



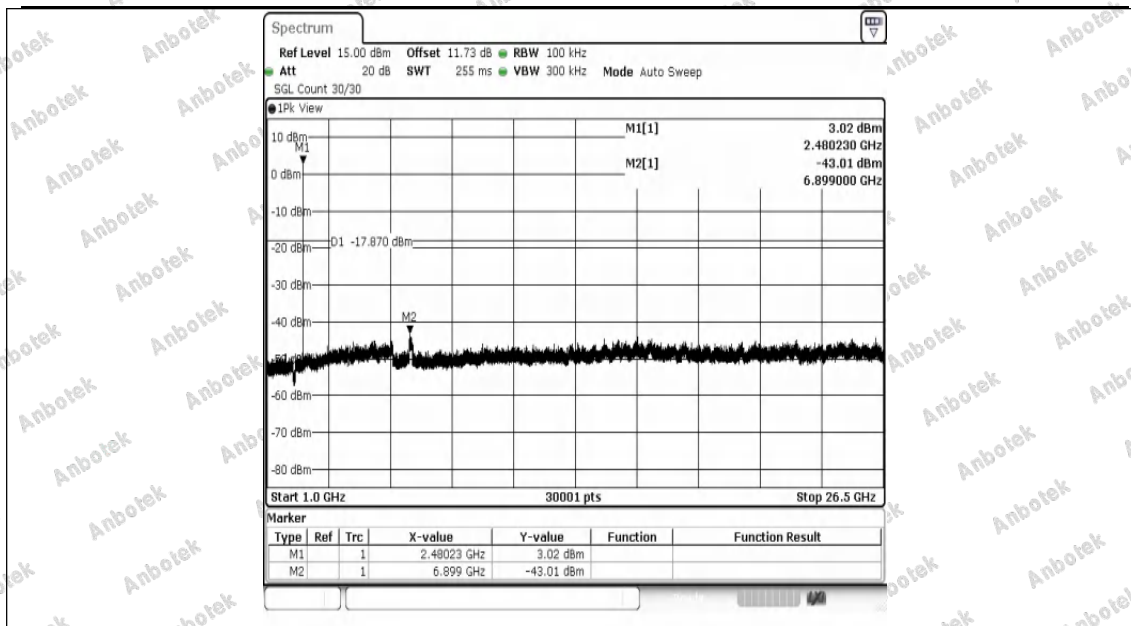


DH5-Ant1-2480-0~Reference-PASS

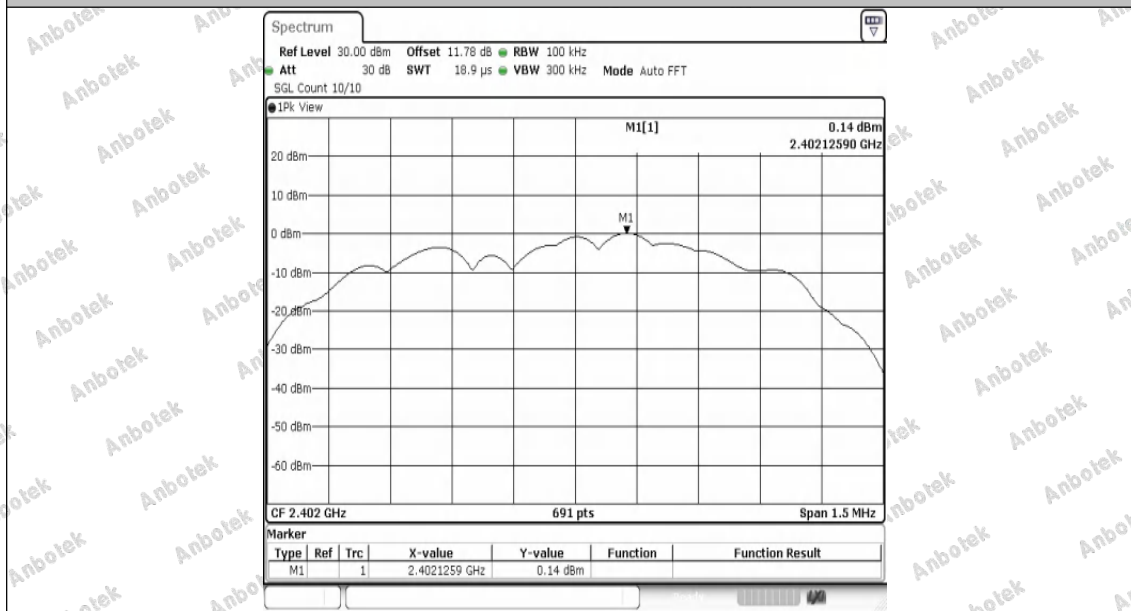


DH5-Ant1-2480-30~1000-PASS



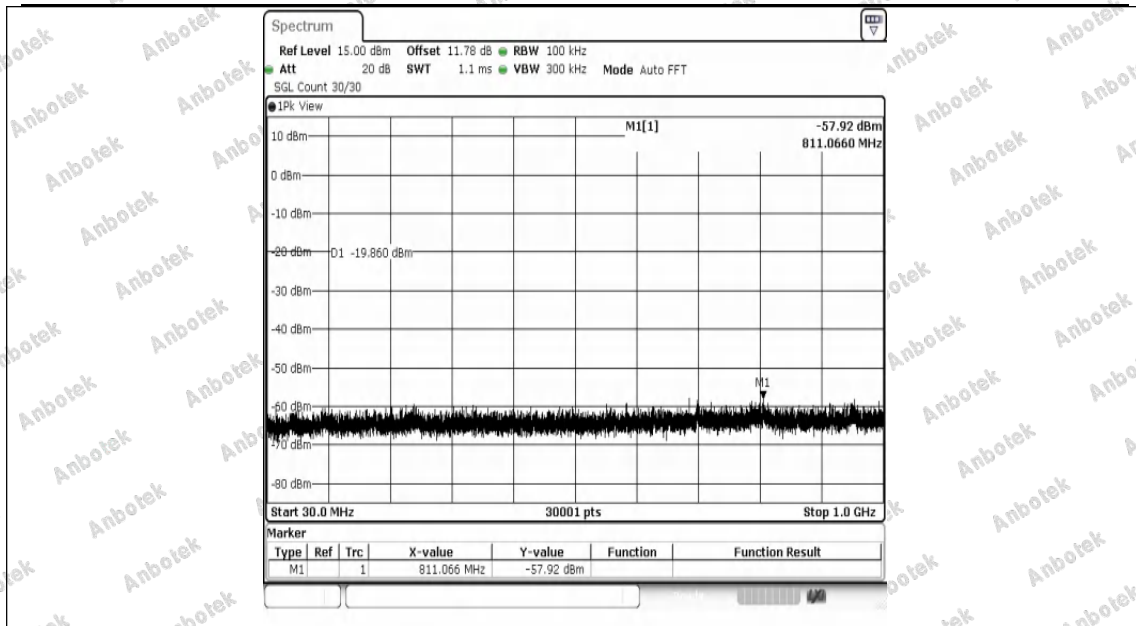


DH5-Ant1-2480-1000~26500-PASS

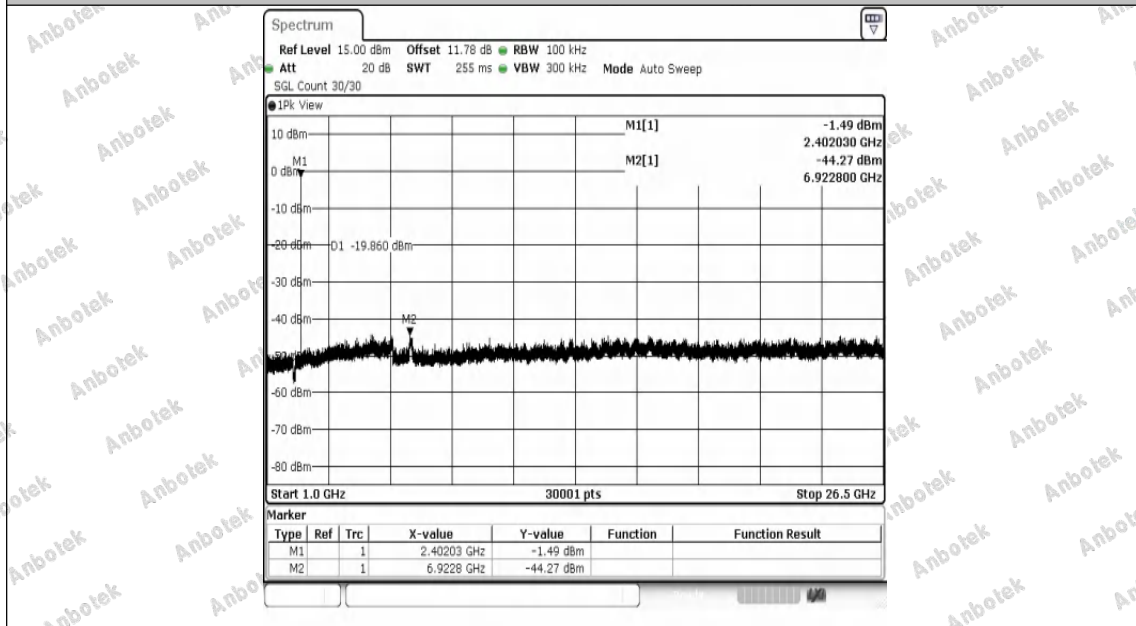


2DH5-Ant1-2402-0~Reference-PASS



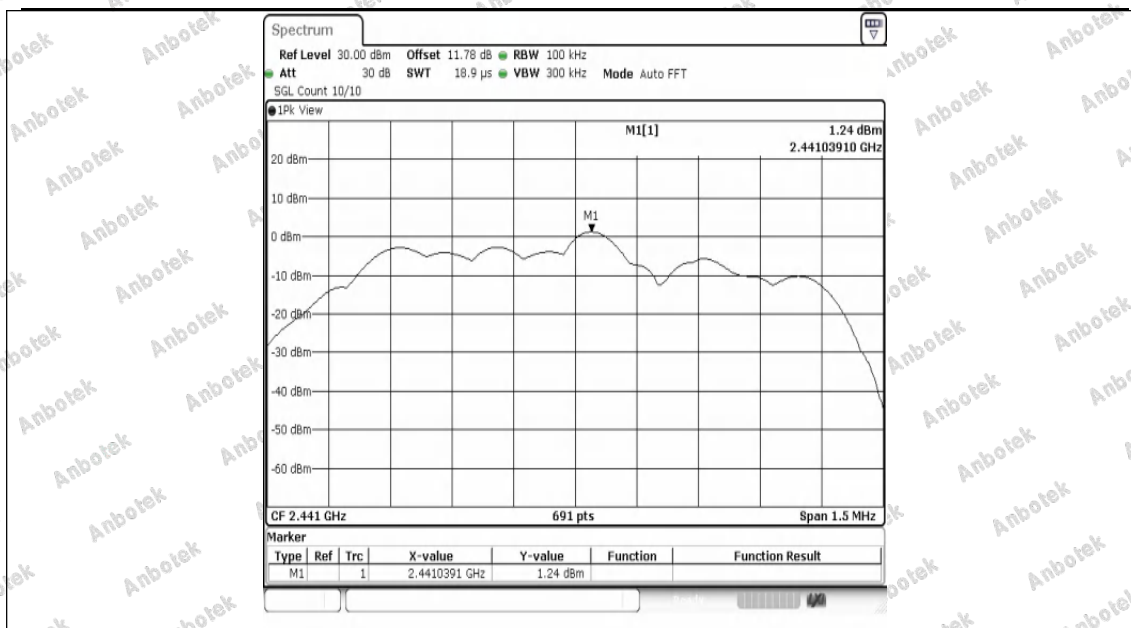


2DH5-Ant1-2402-30~1000-PASS

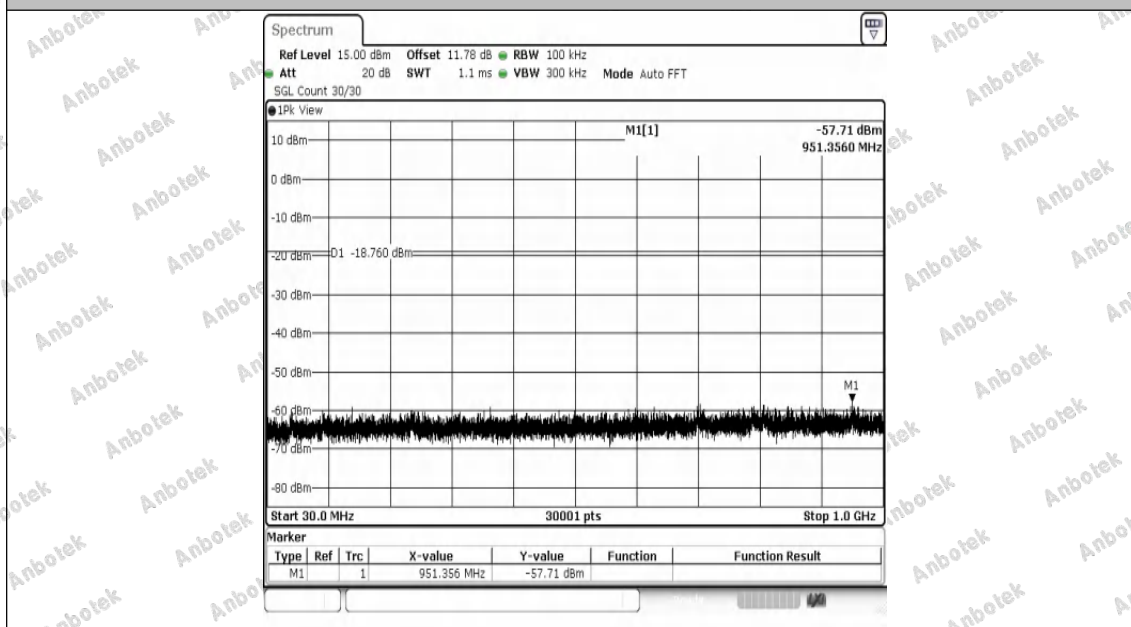


2DH5-Ant1-2402-1000~26500-PASS



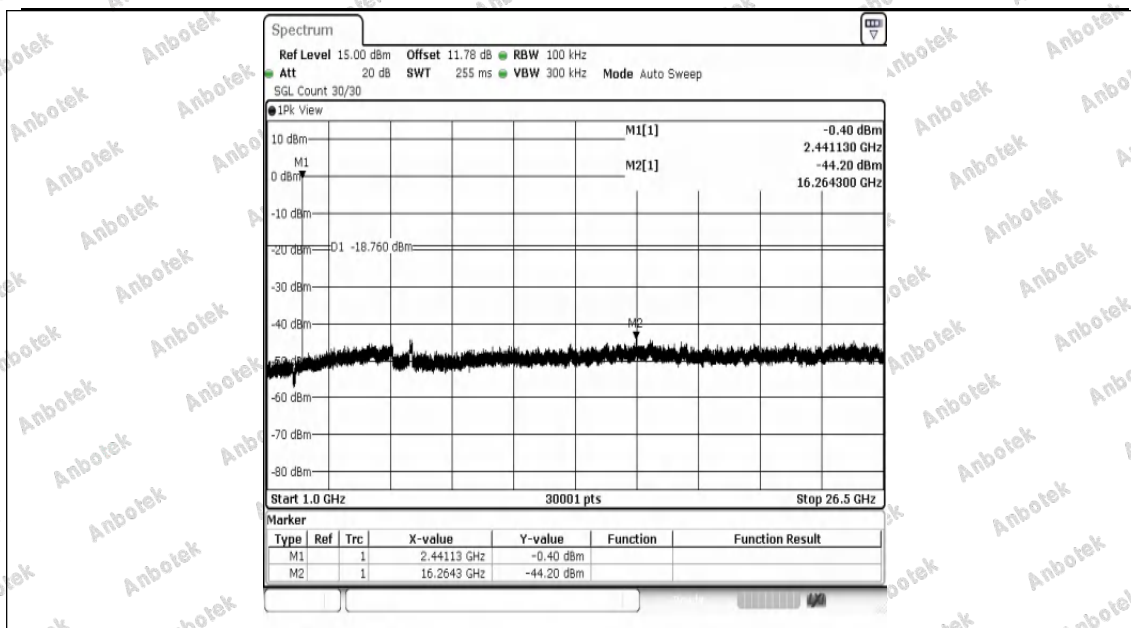


2D41-Ant1-2441-0~Reference-PASS

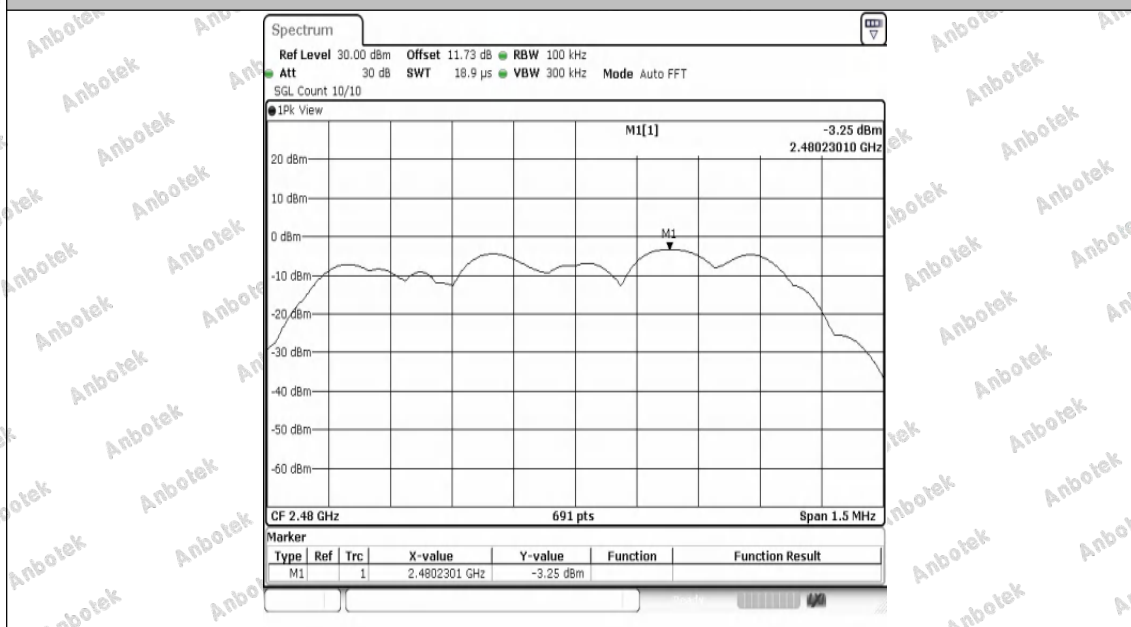


2D41-Ant1-2441-30~1000-PASS



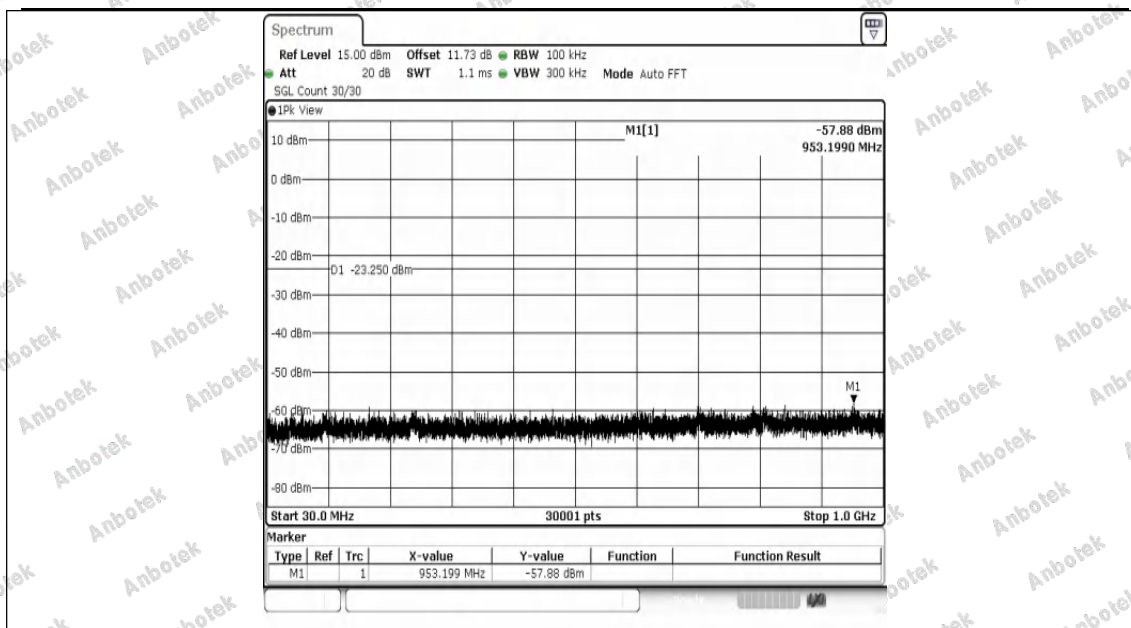


2DH5-Ant1-2441-1000~26500-PASS

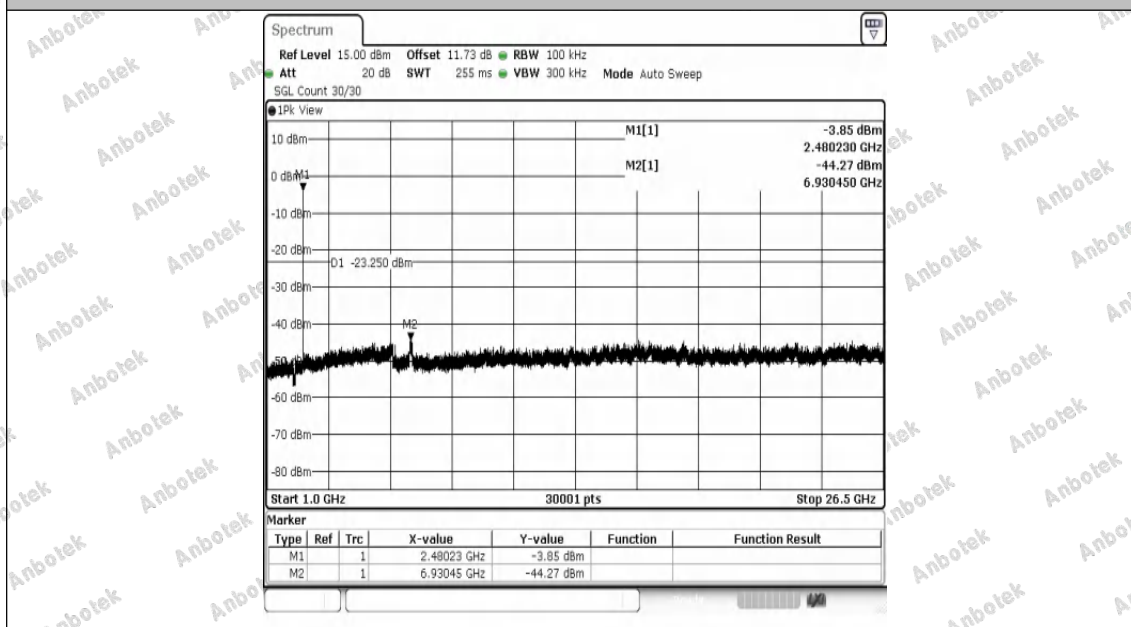


2DH5-Ant1-2480-0~Reference-PASS



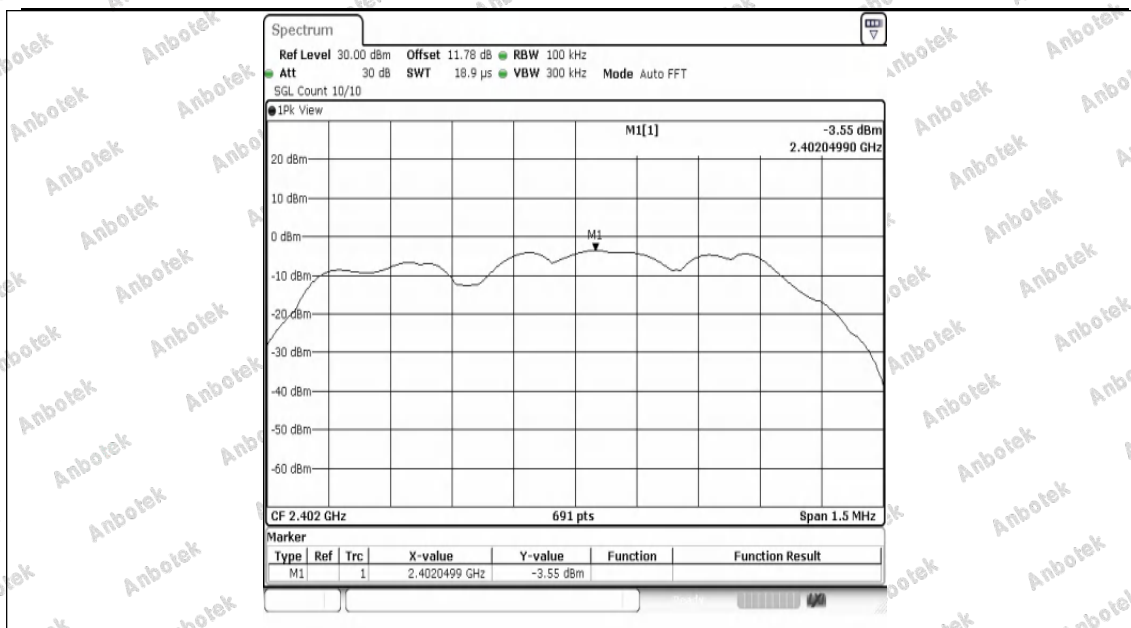


2DH5-Ant1-2480-30~1000-PASS

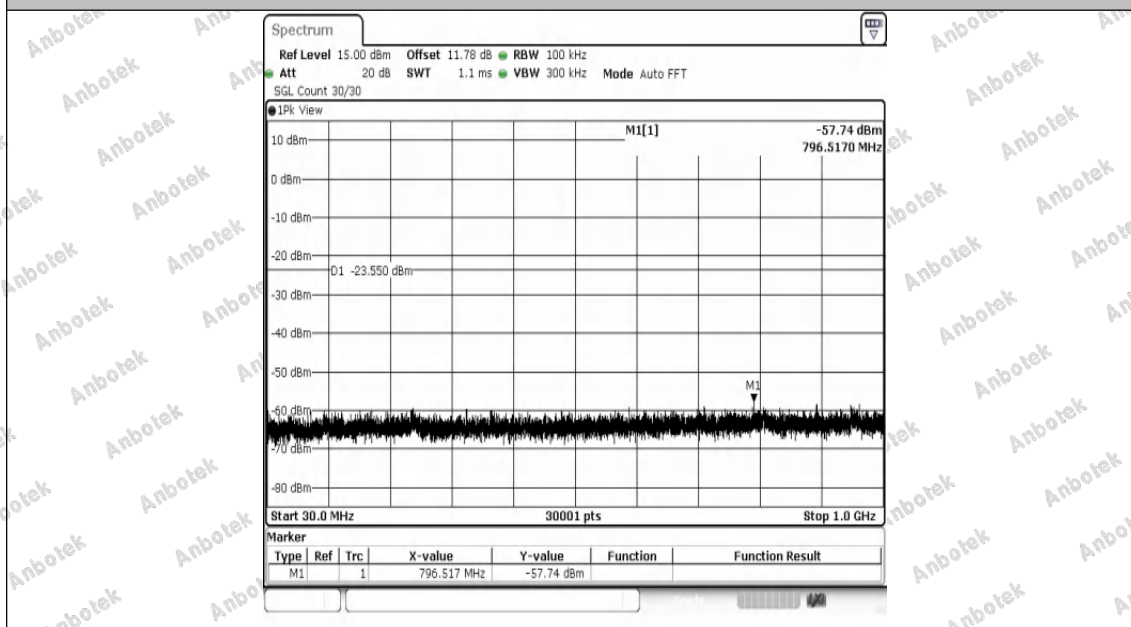


2DH5-Ant1-2480-1000~26500-PASS



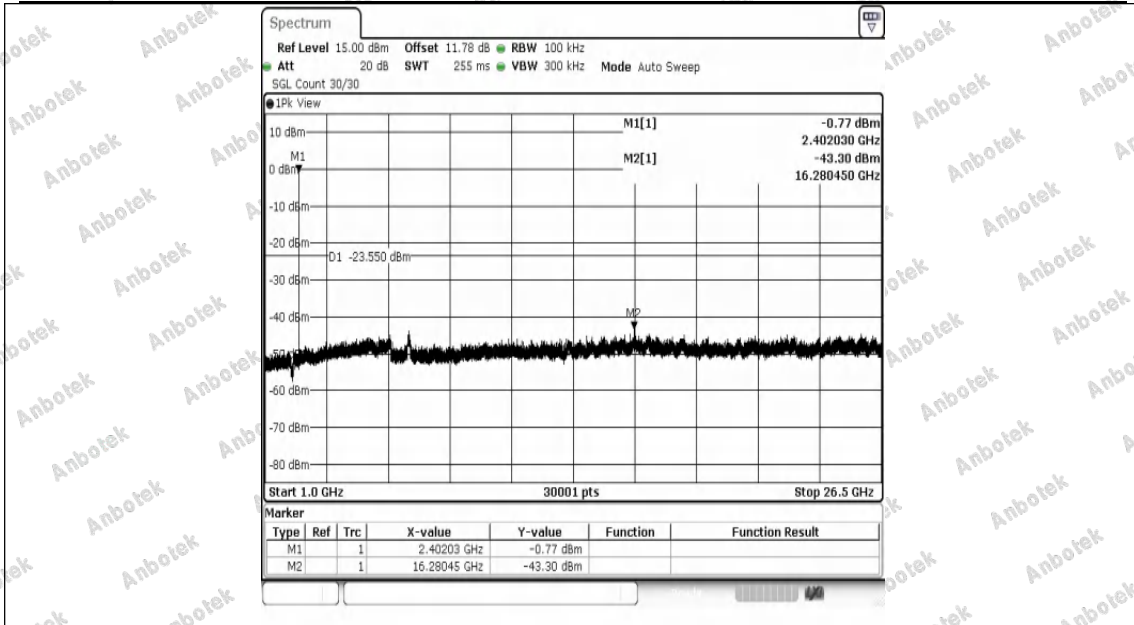


3DH5-Ant1-2402-0~Reference-PASS

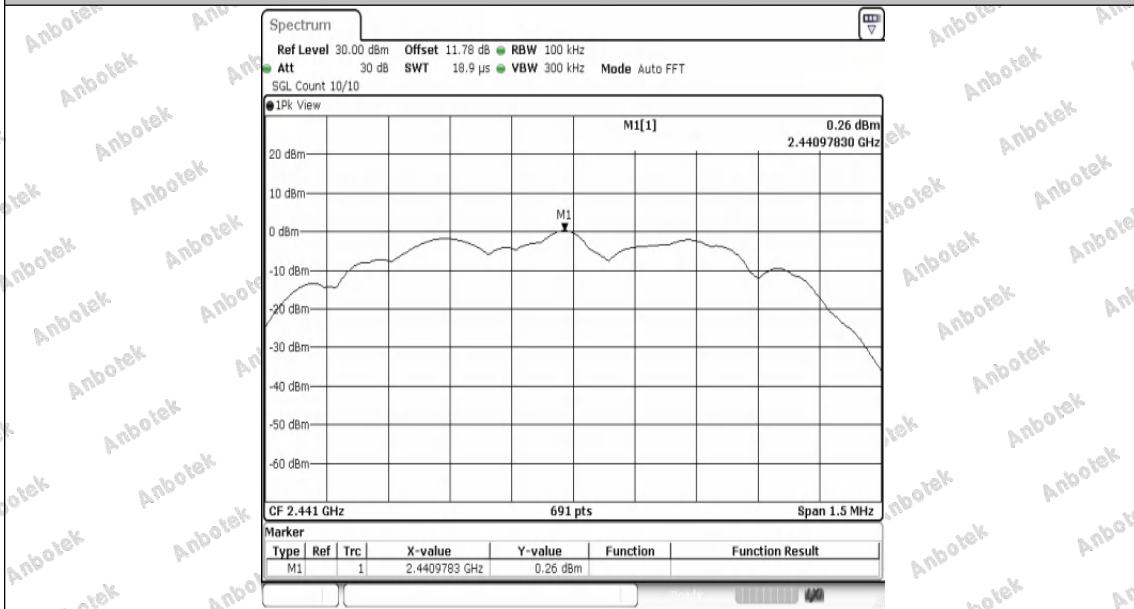


3DH5-Ant1-2402-30~1000-PASS



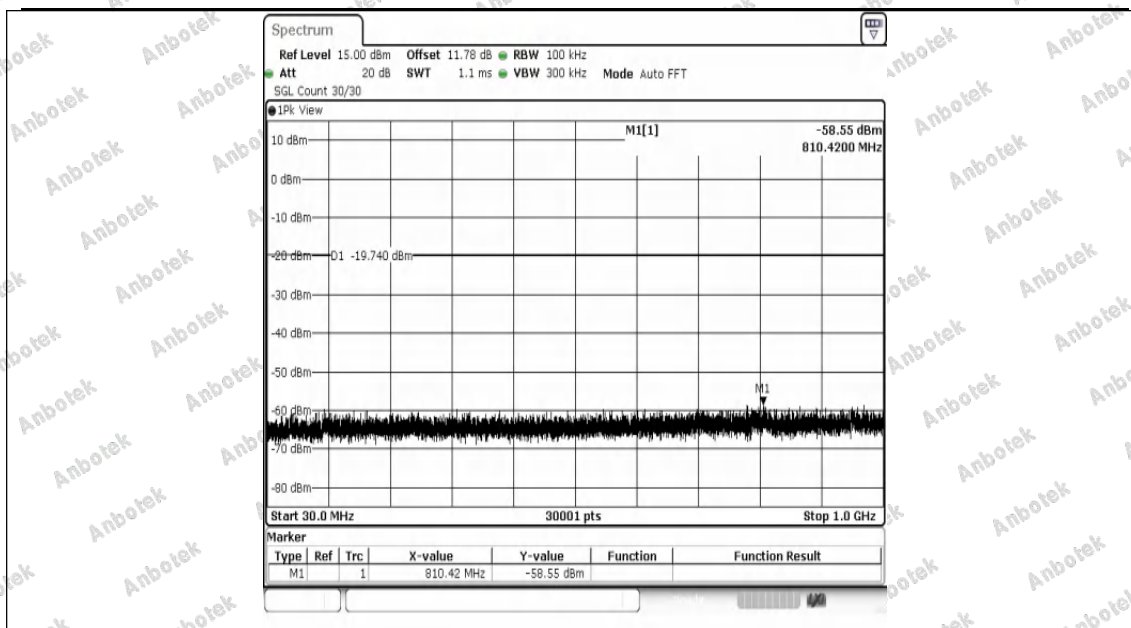


3DH5-Ant1-2402-1000~26500-PASS

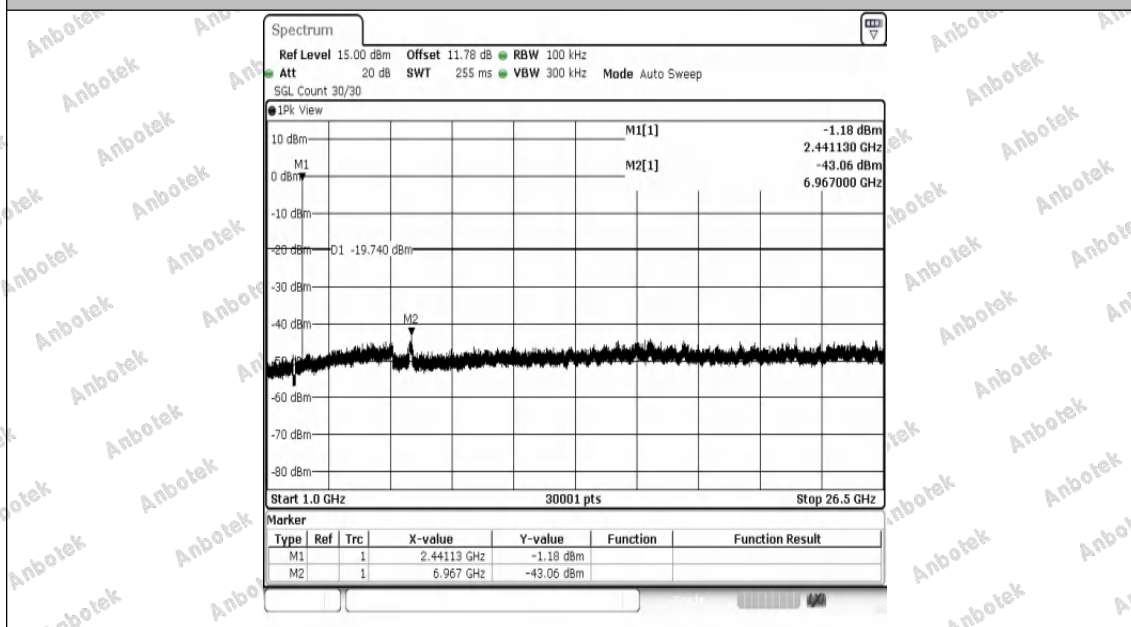


3DH5-Ant1-2441-0~Reference-PASS



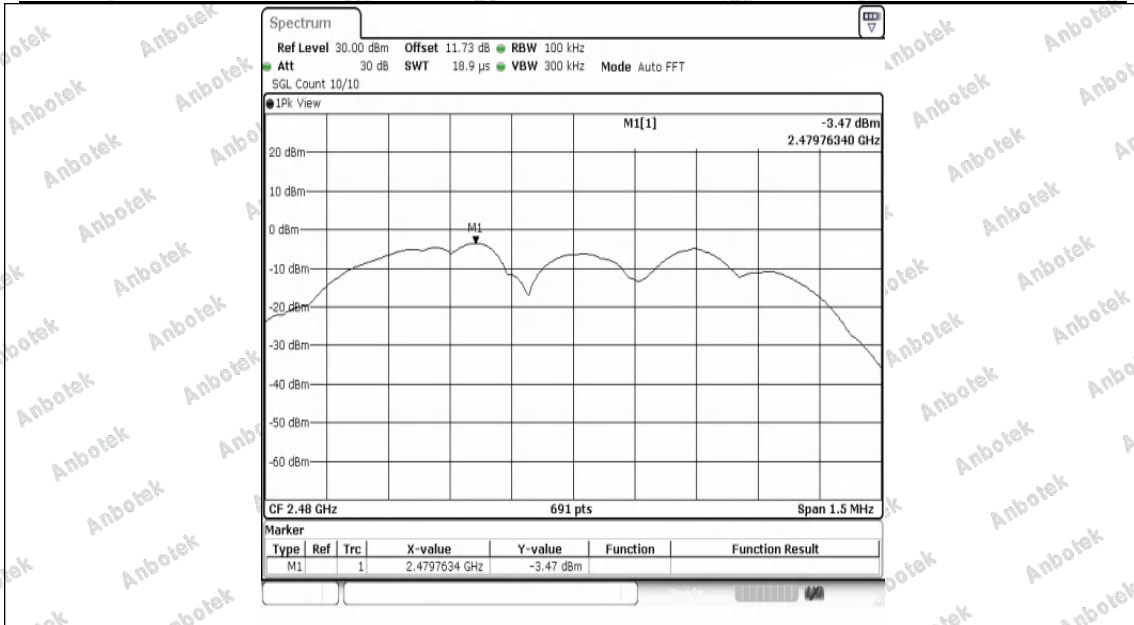


3DH5-Ant1-2441-30~1000-PASS

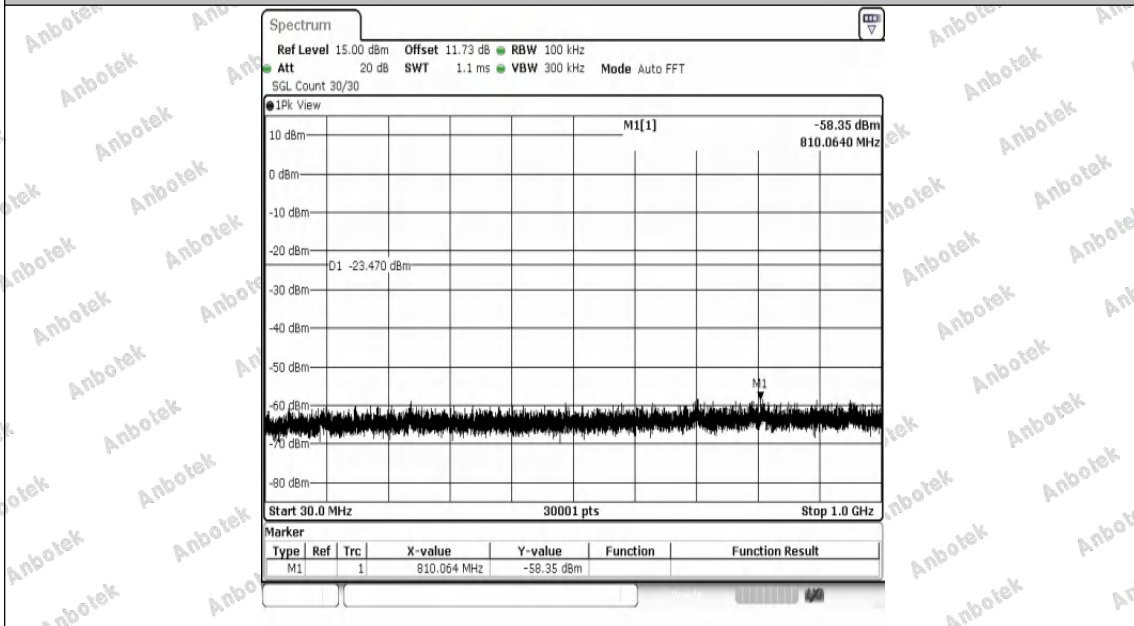


3DH5-Ant1-2441-1000~26500-PASS



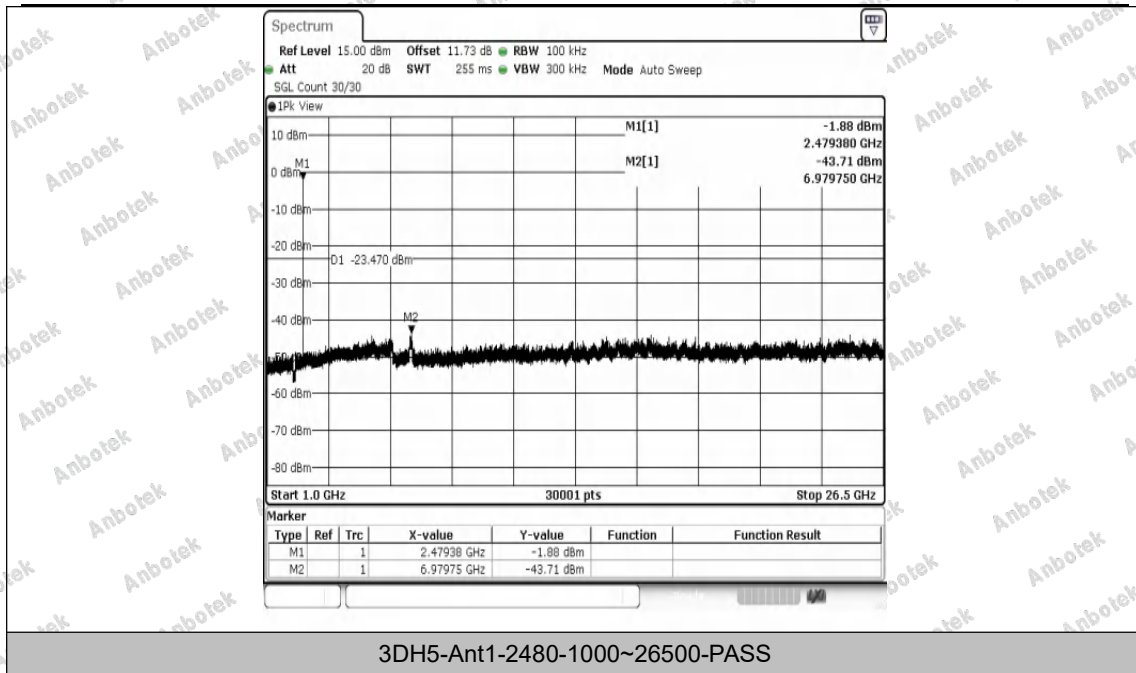


3DH5-Ant1-2480-0~Reference-PASS



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





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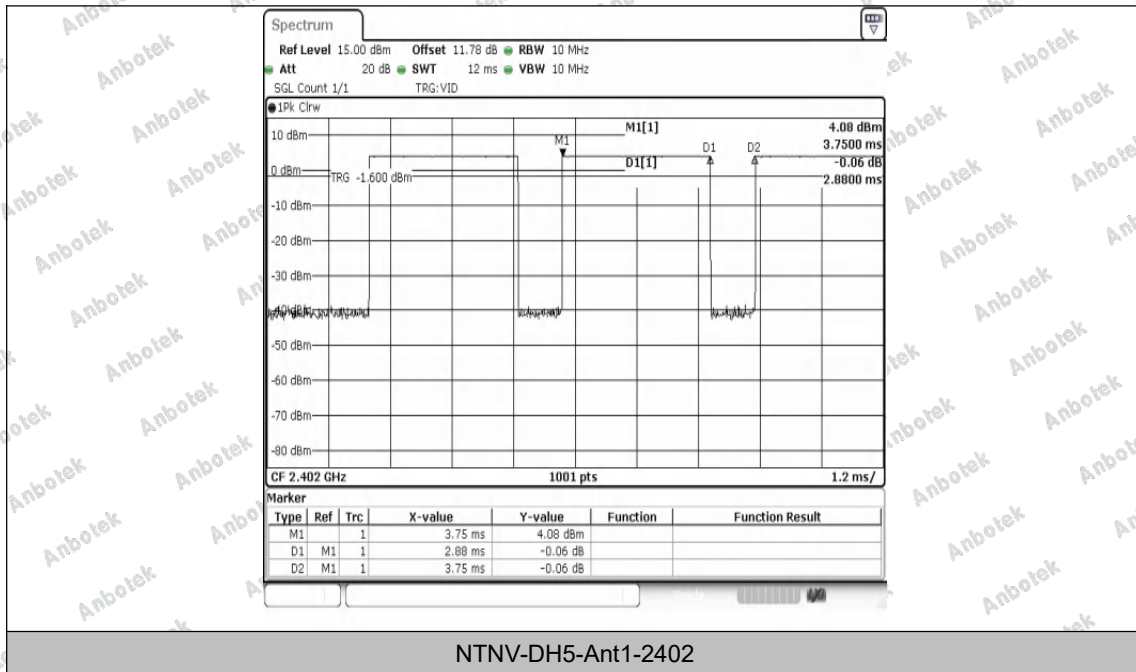


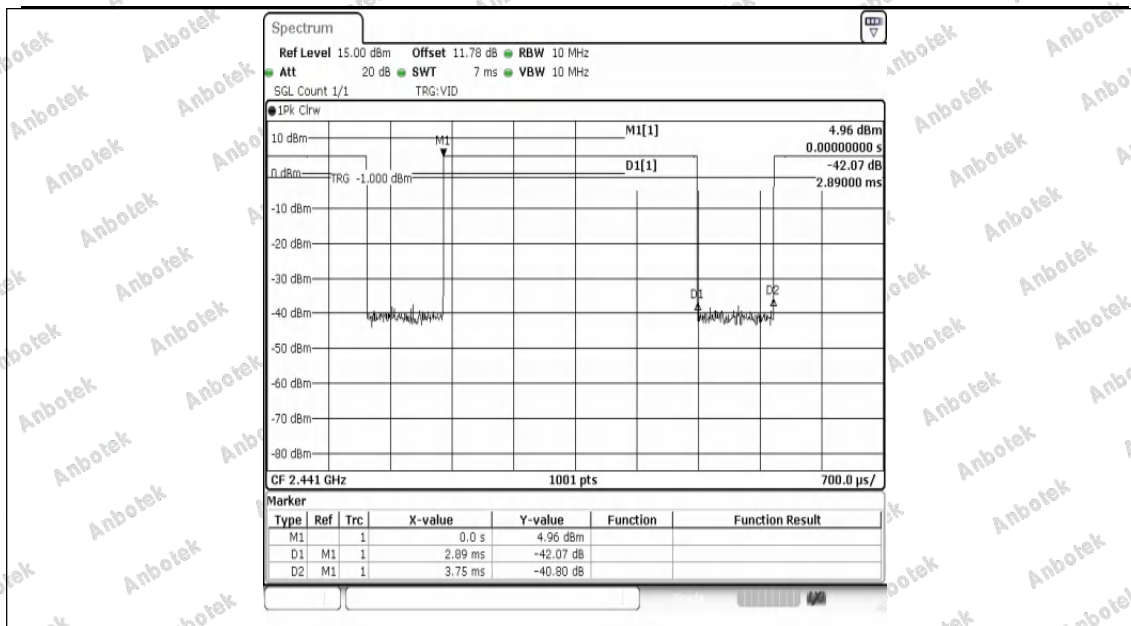
Appendix I: Duty Cycle

Test Result

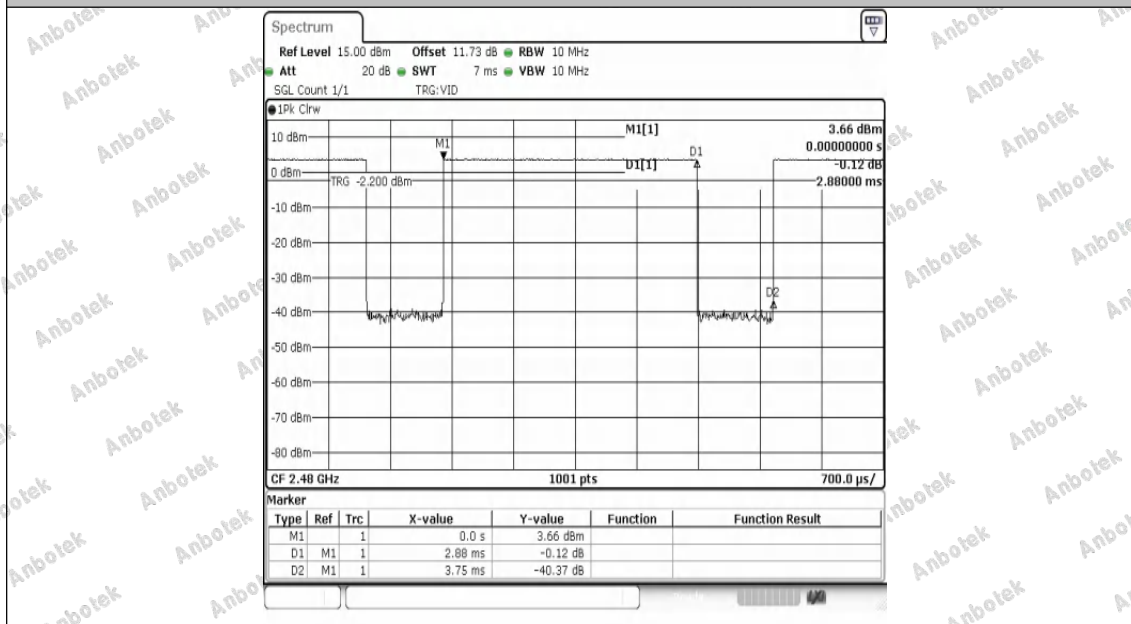
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
DH5	Ant1	2441	2.89	3.75	77.07	1.13
DH5	Ant1	2480	2.88	3.75	76.80	1.15
2DH5	Ant1	2402	2.88	3.75	76.80	1.15
2DH5	Ant1	2441	1.53	3.75	40.80	3.89
2DH5	Ant1	2480	1.53	3.76	40.69	3.91
3DH5	Ant1	2402	2.88	3.76	76.60	1.16
3DH5	Ant1	2441	2.89	3.75	77.07	1.13
3DH5	Ant1	2480	2.89	3.75	77.07	1.13

Test Graphs



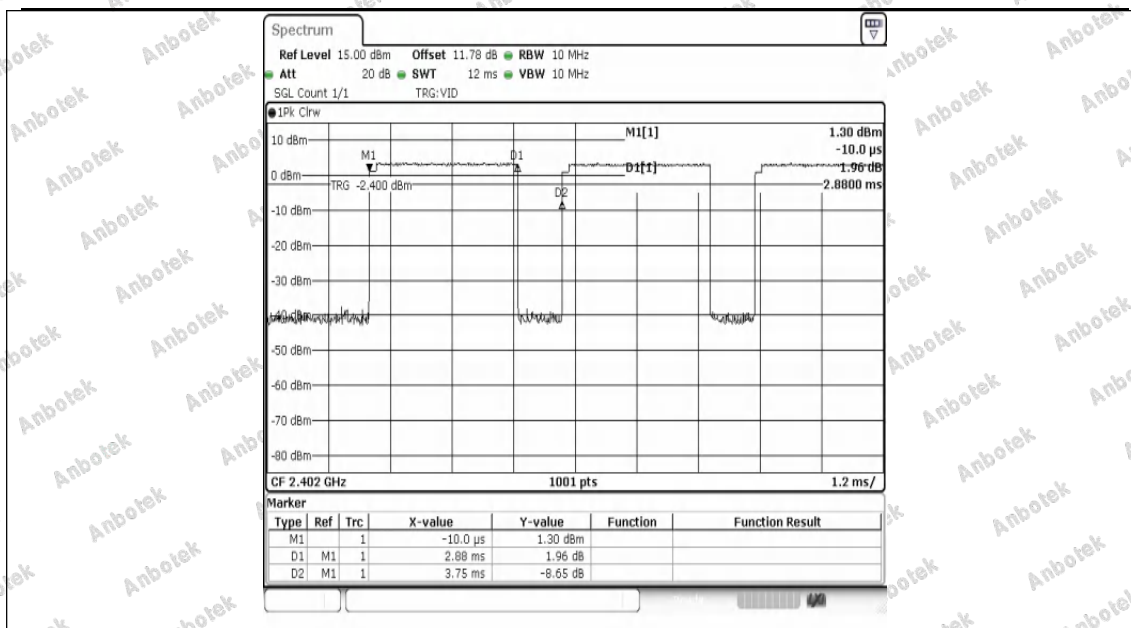


NTNV-DH5-Ant1-2441

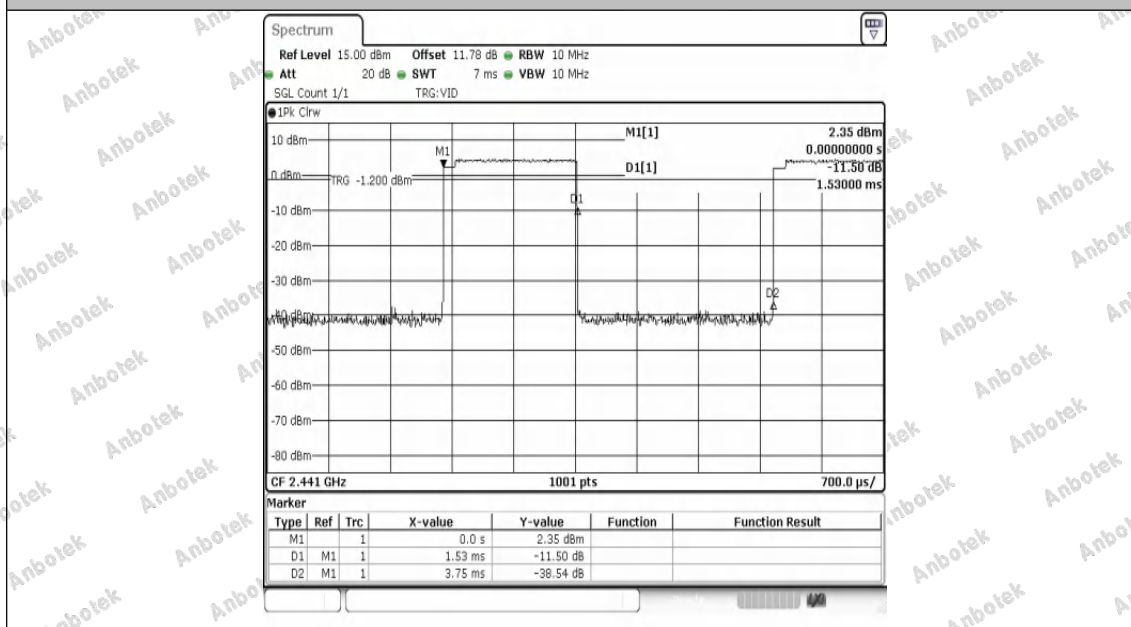


NTNV-DH5-Ant1-2480



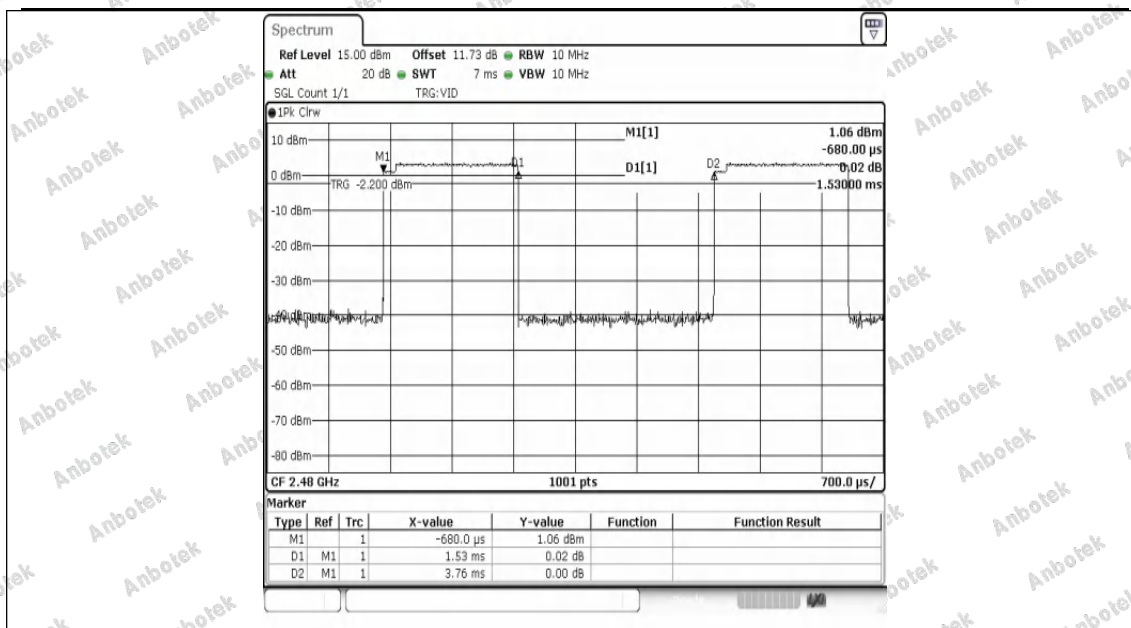


NTNV-2DH5-Ant1-2402

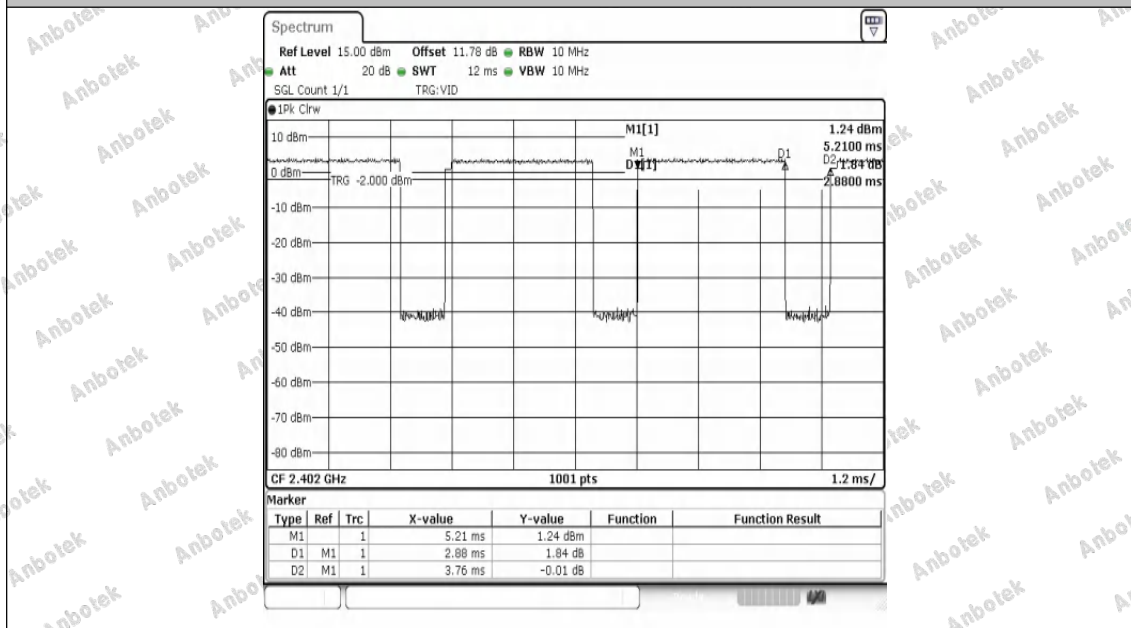


NTNV-2DH5-Ant1-2441



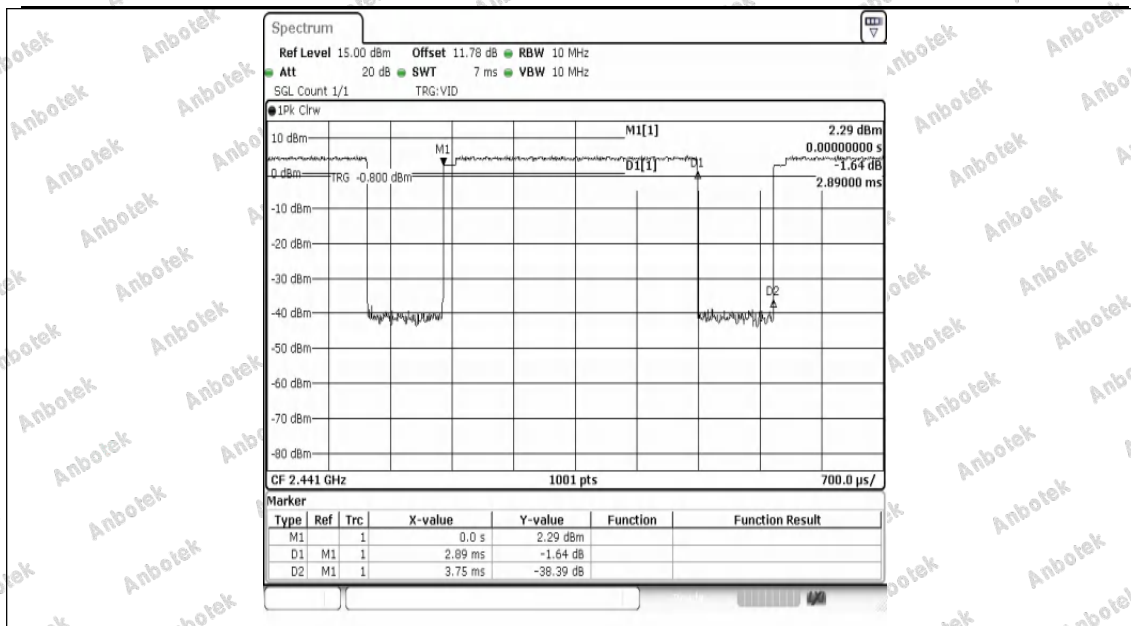


NTNV-2DH5-Ant1-2480

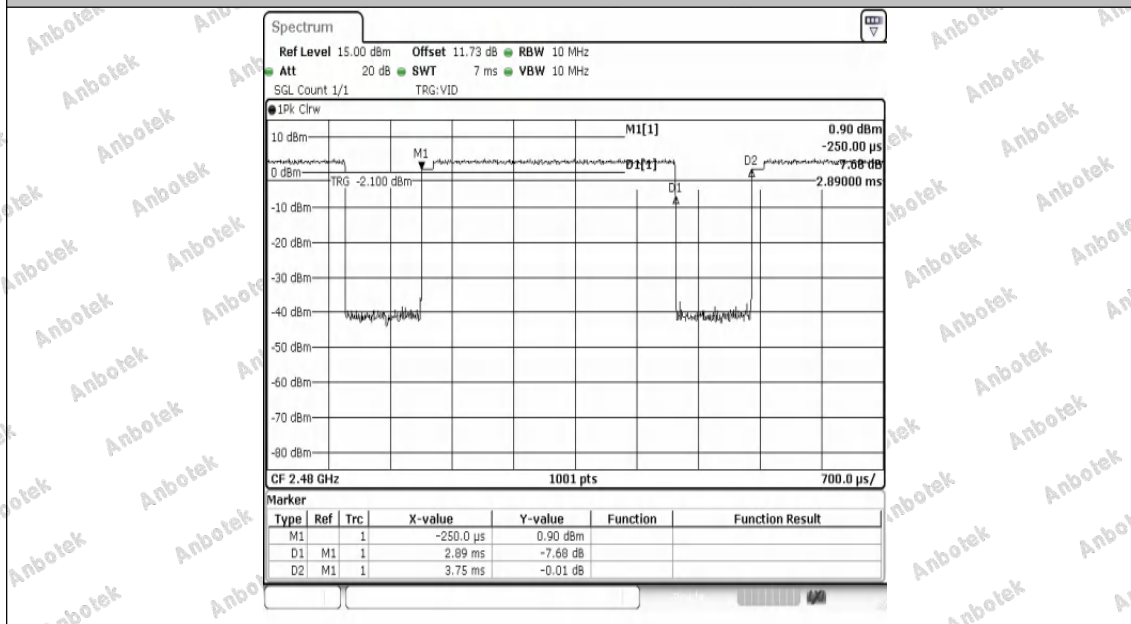


NTNV-3DH5-Ant1-2402





NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480

---END---

