

Appendix Test Data

Report No.:	1812C40152912501	Test Sample No.:	1-2-2
Start Test Date:	2024.11.26	Finish Test Date:	2024.11.27
Test Engineer:	<i>Foker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.1°C	Relative Humidity:	49%
Pressure:	101kPa		

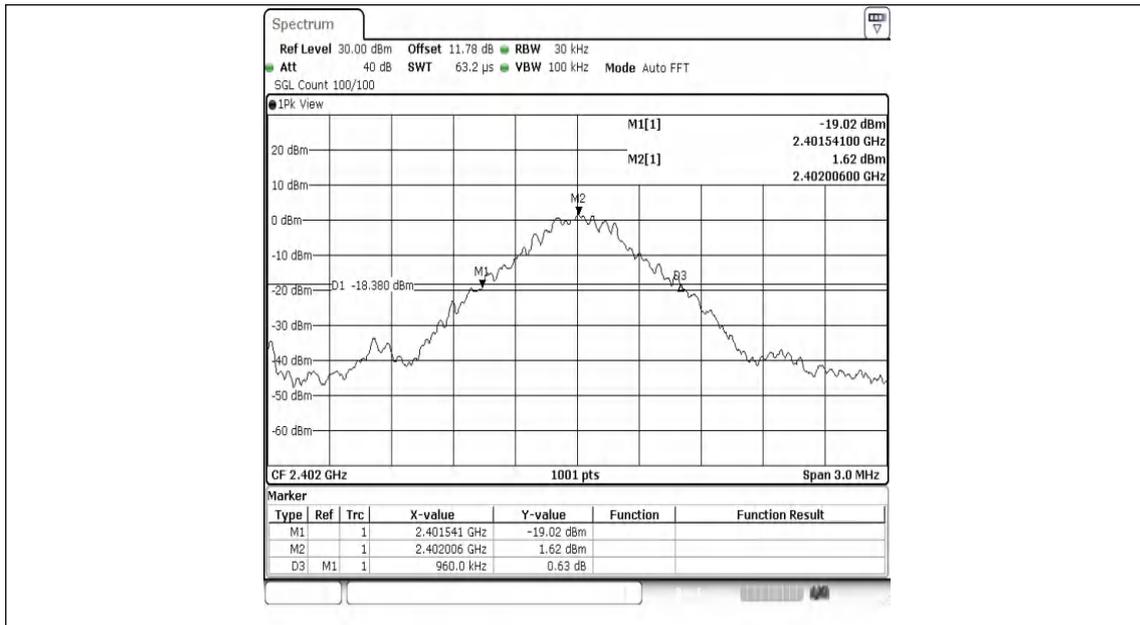
Appendix A: 20dB Bandwidth

Test Result

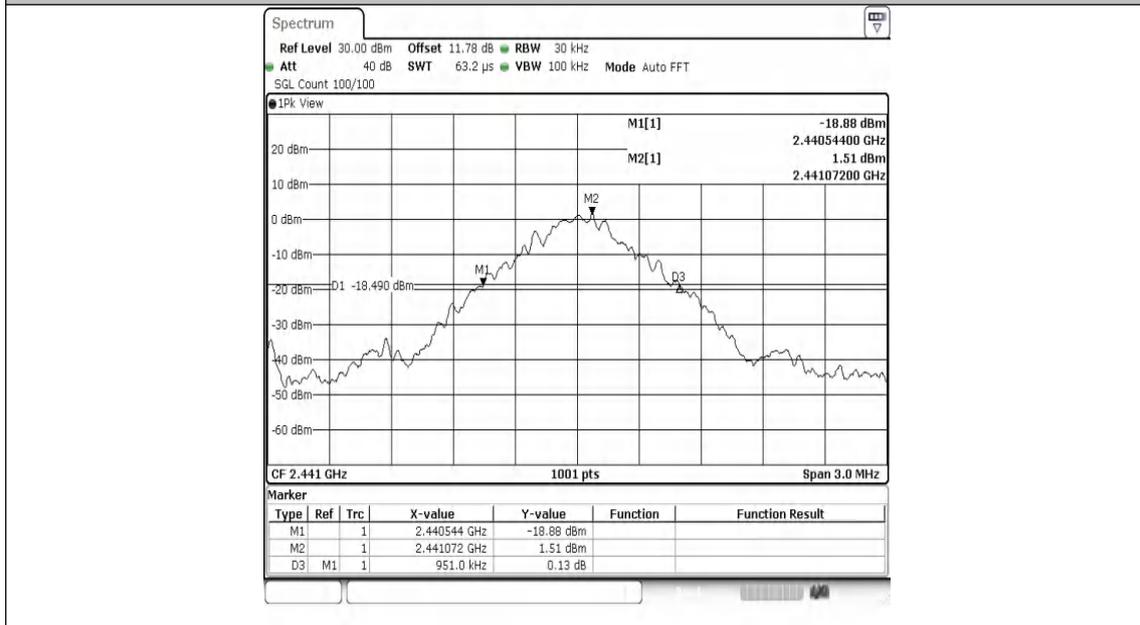
Test Mode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.96	2401.54	2402.50	---	---
DH5	Ant1	2441	0.95	2440.54	2441.50	---	---
DH5	Ant1	2480	0.95	2479.55	2480.50	---	---
2DH5	Ant1	2402	1.34	2401.34	2402.68	---	---
2DH5	Ant1	2441	1.35	2440.34	2441.69	---	---
2DH5	Ant1	2480	1.33	2479.35	2480.68	---	---
3DH5	Ant1	2402	1.30	2401.36	2402.66	---	---
3DH5	Ant1	2441	1.37	2440.33	2441.69	---	---
3DH5	Ant1	2480	1.42	2479.32	2480.74	---	---



Test Graphs

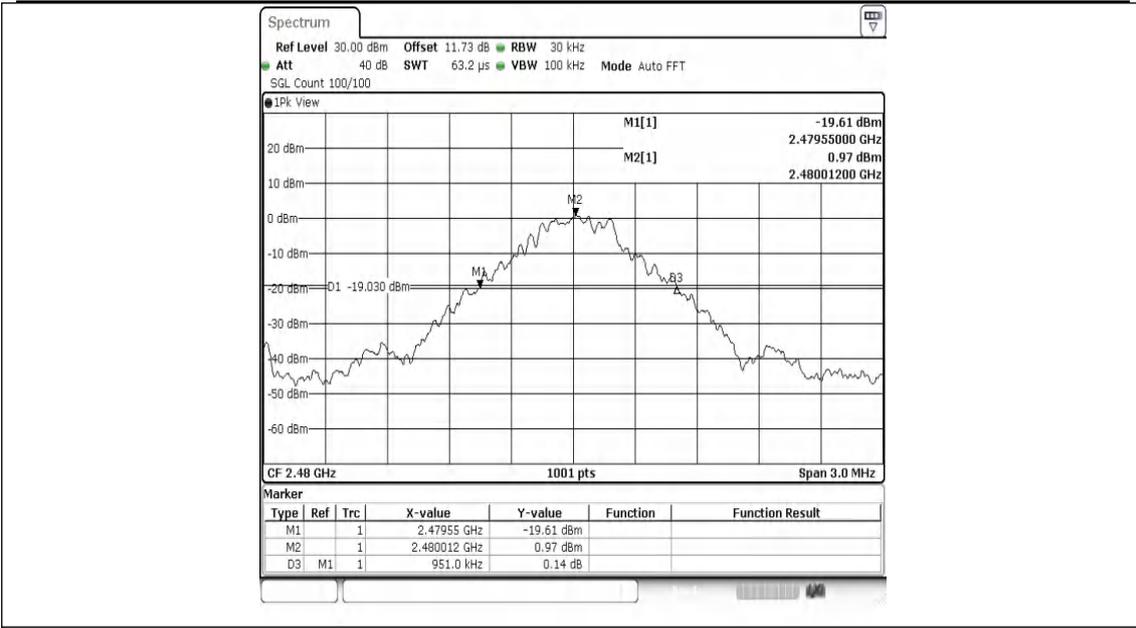


DH5-Ant1-2402

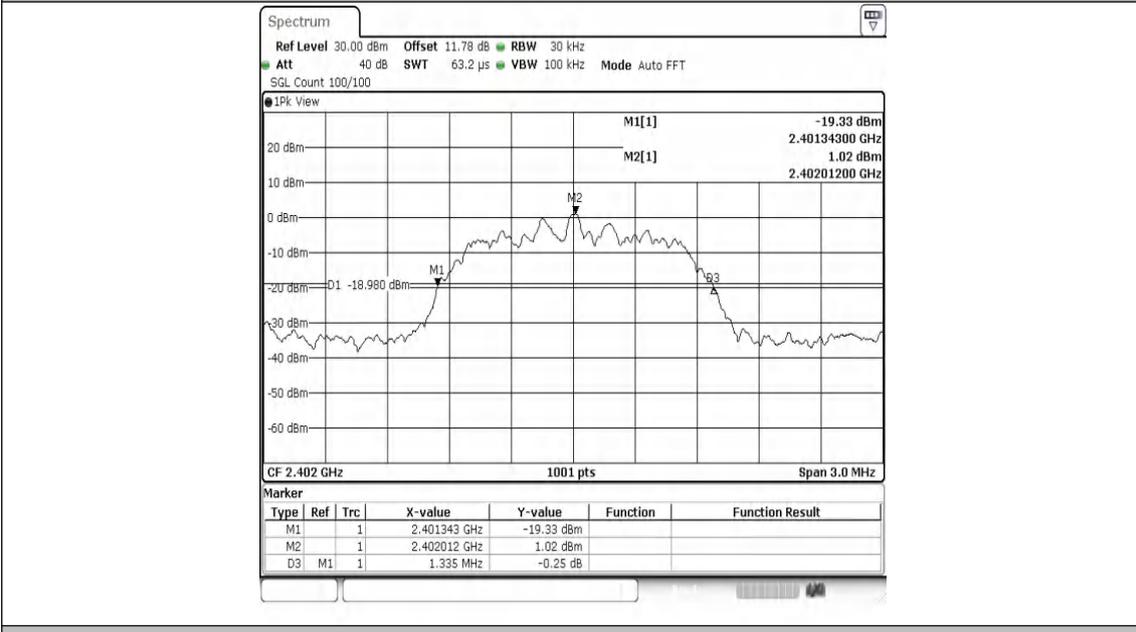


DH5-Ant1-2441



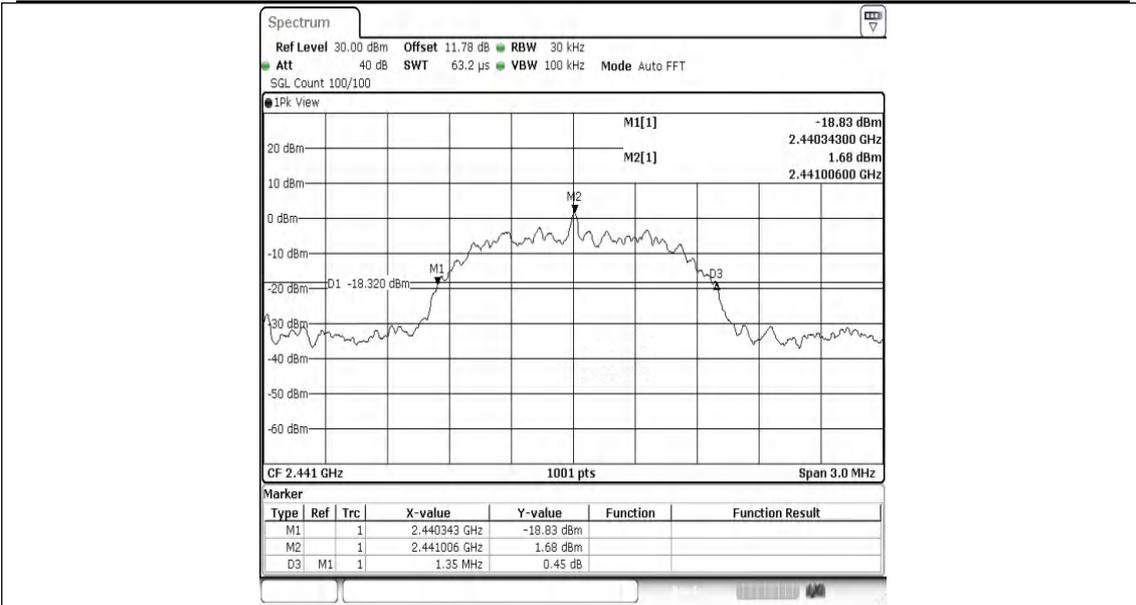


DH5-Ant1-2480

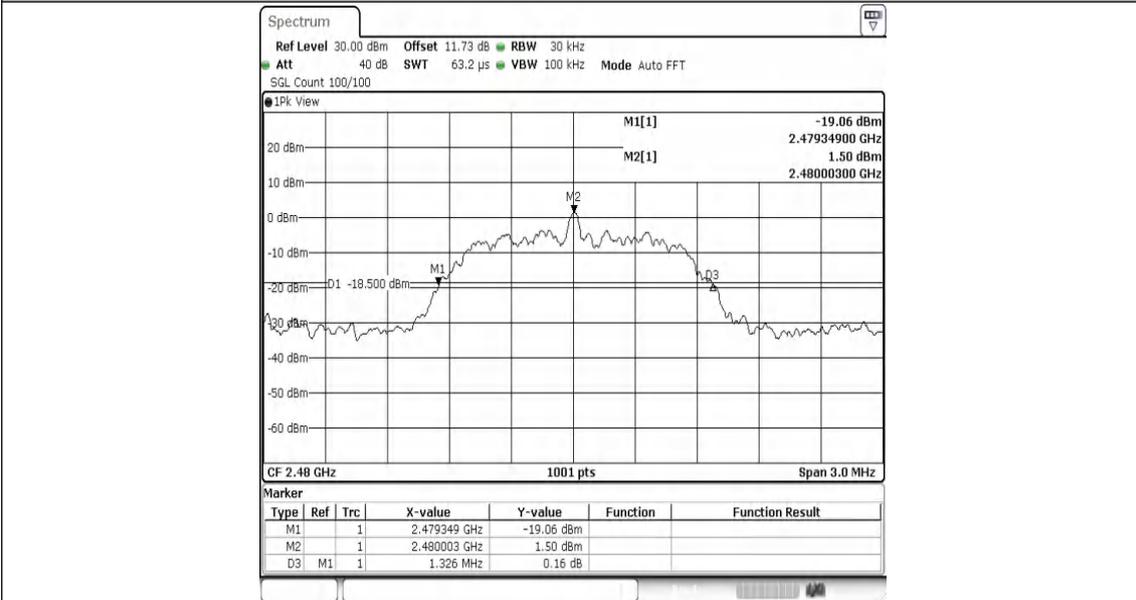


2DH5-Ant1-2402



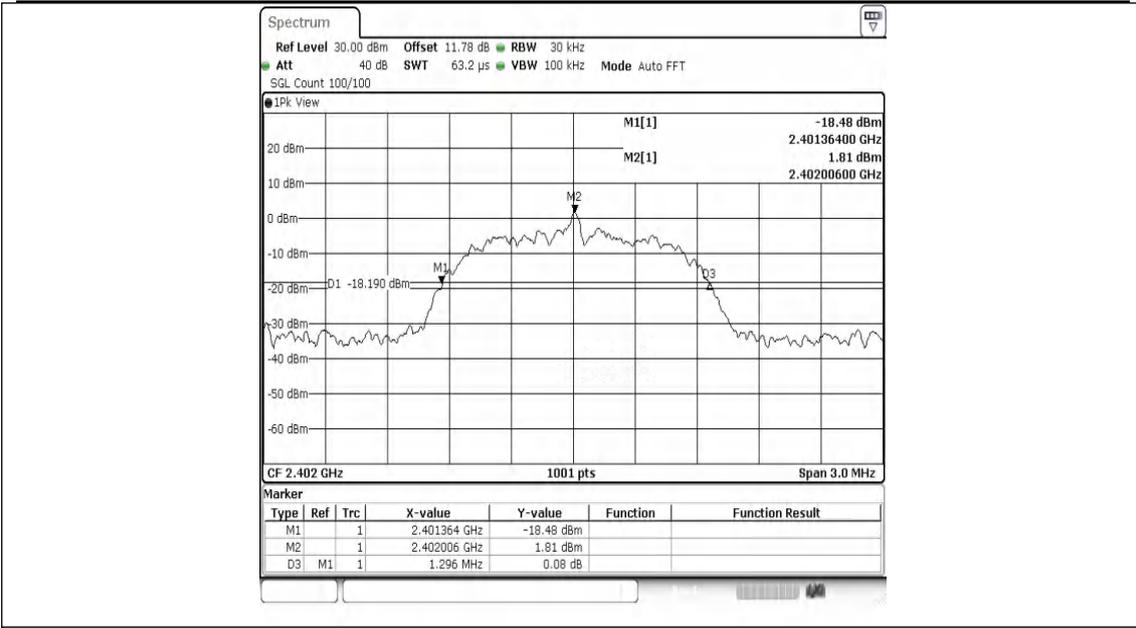


2DH5-Ant1-2441

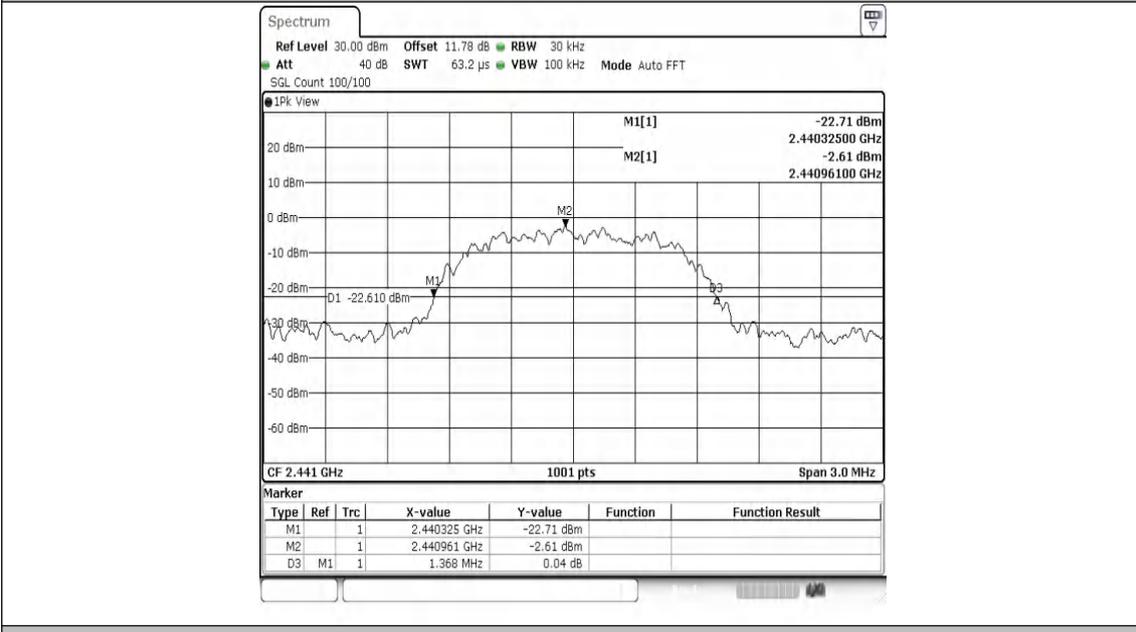


2DH5-Ant1-2480



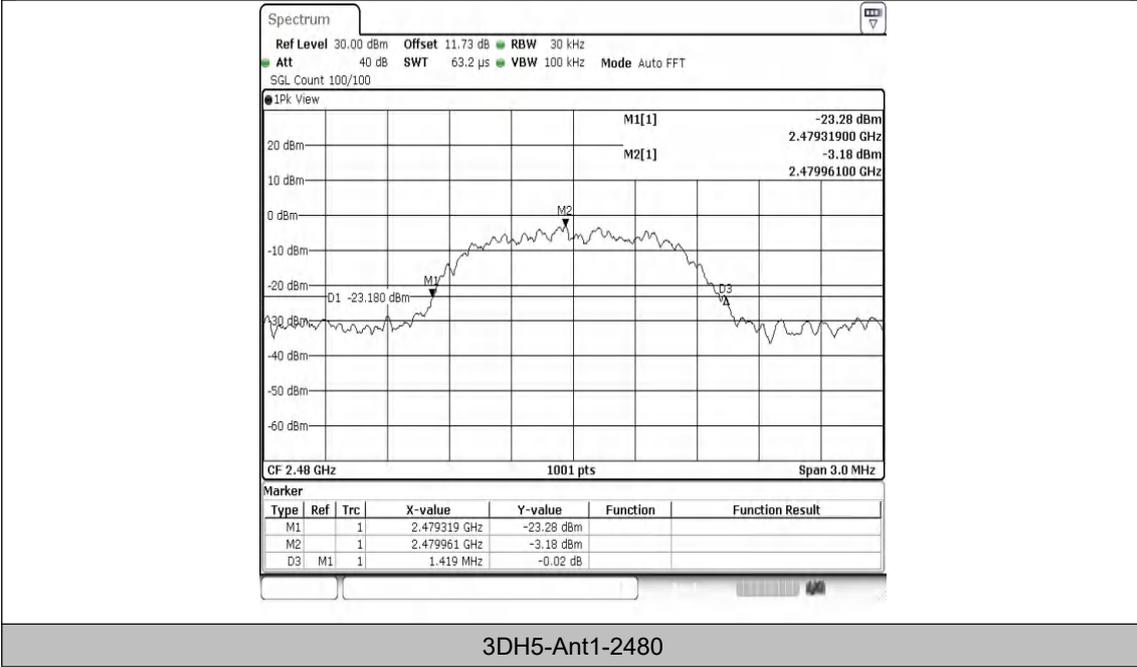


3DH5-Ant1-2402



3DH5-Ant1-2441





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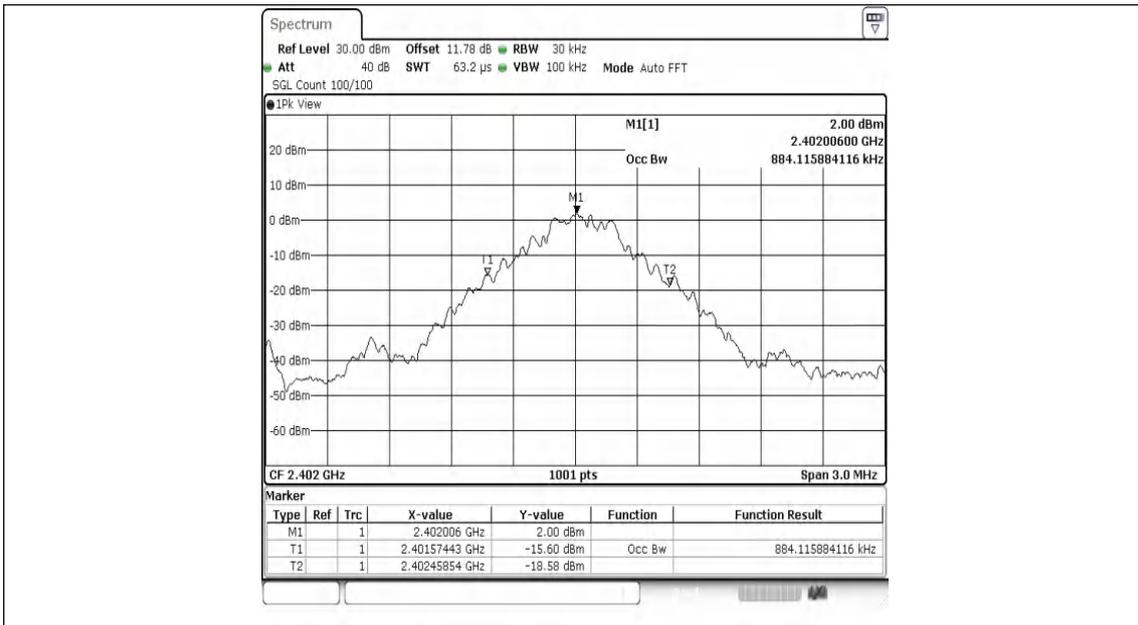
Appendix B: 99% Occupied Bandwidth

Test Result

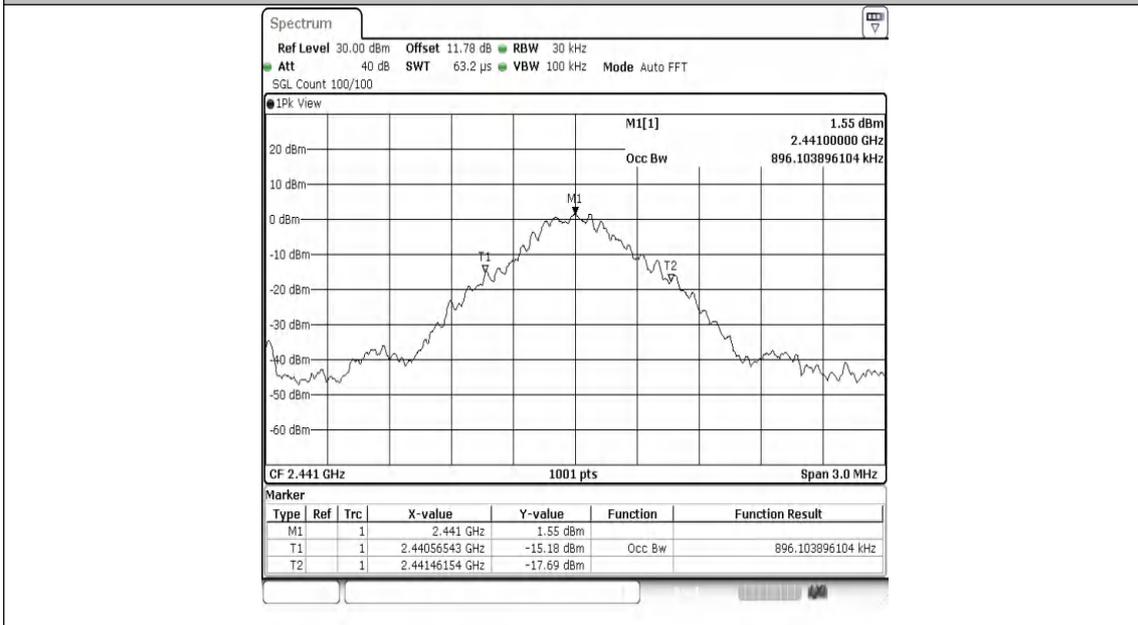
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.884	2401.5744	2402.4585	---	---
DH5	Ant1	2441	0.896	2440.5654	2441.4615	---	---
DH5	Ant1	2480	0.875	2479.5744	2480.4496	---	---
2DH5	Ant1	2402	1.205	2401.4066	2402.6114	---	---
2DH5	Ant1	2441	1.235	2440.3946	2441.6294	---	---
2DH5	Ant1	2480	1.244	2479.3946	2480.6384	---	---
3DH5	Ant1	2402	1.22	2401.3946	2402.6144	---	---
3DH5	Ant1	2441	1.229	2440.3916	2441.6204	---	---
3DH5	Ant1	2480	1.259	2479.3796	2480.6384	---	---



Test Graphs

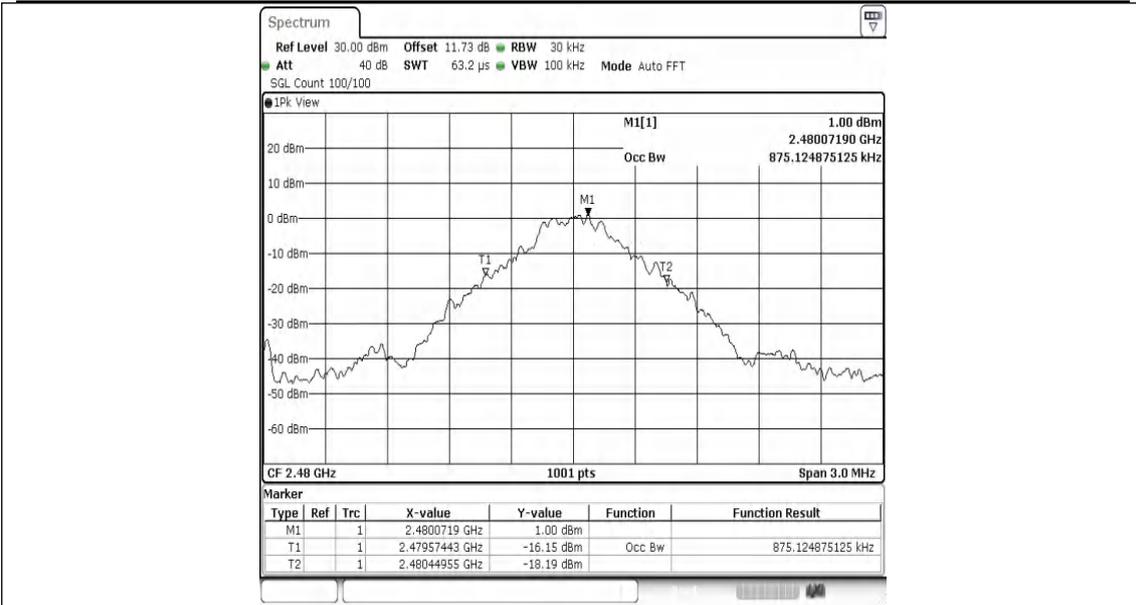


DH5-Ant1-2402

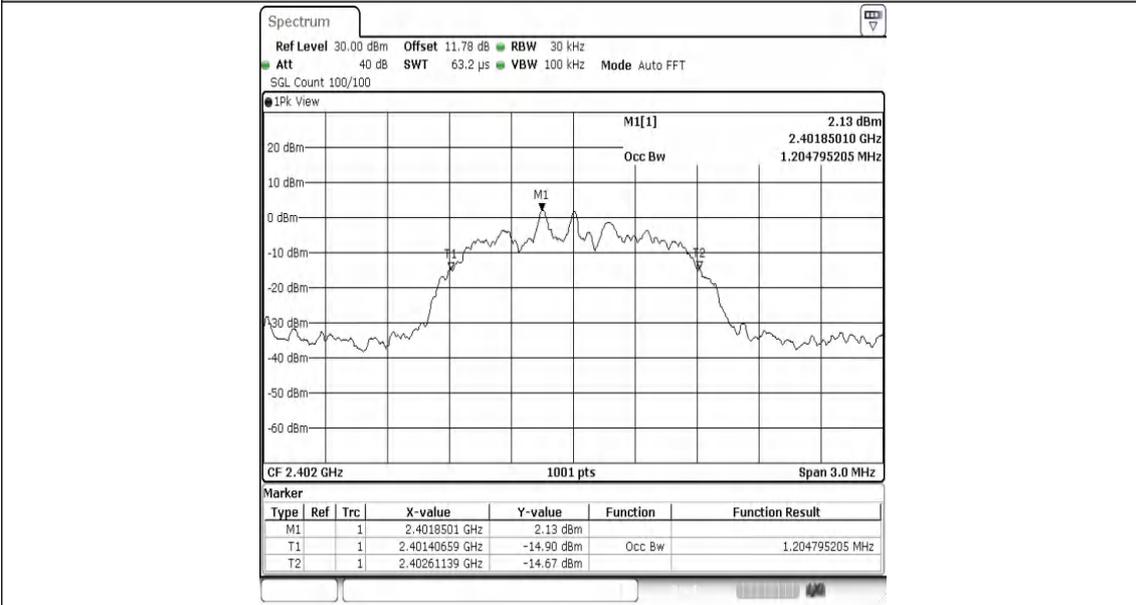


DH5-Ant1-2441



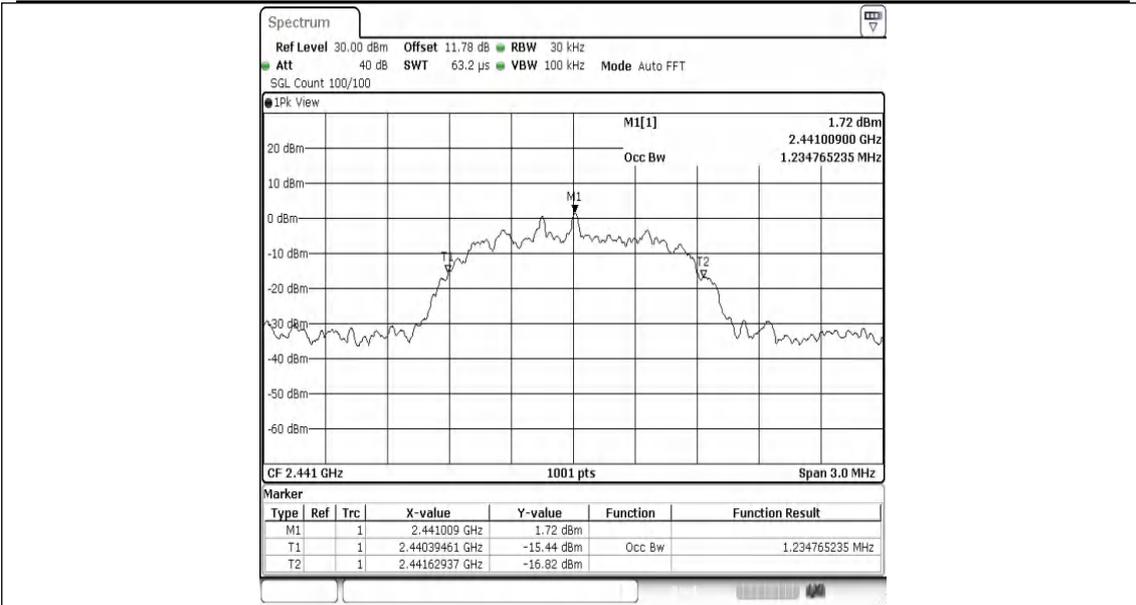


DH5-Ant1-2480

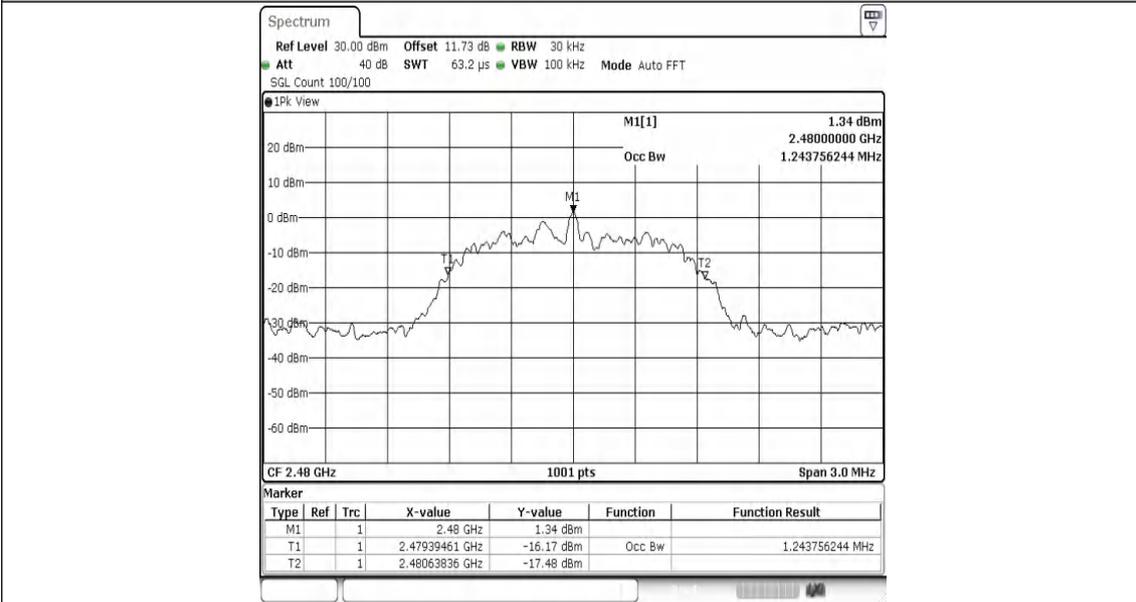


2DH5-Ant1-2402



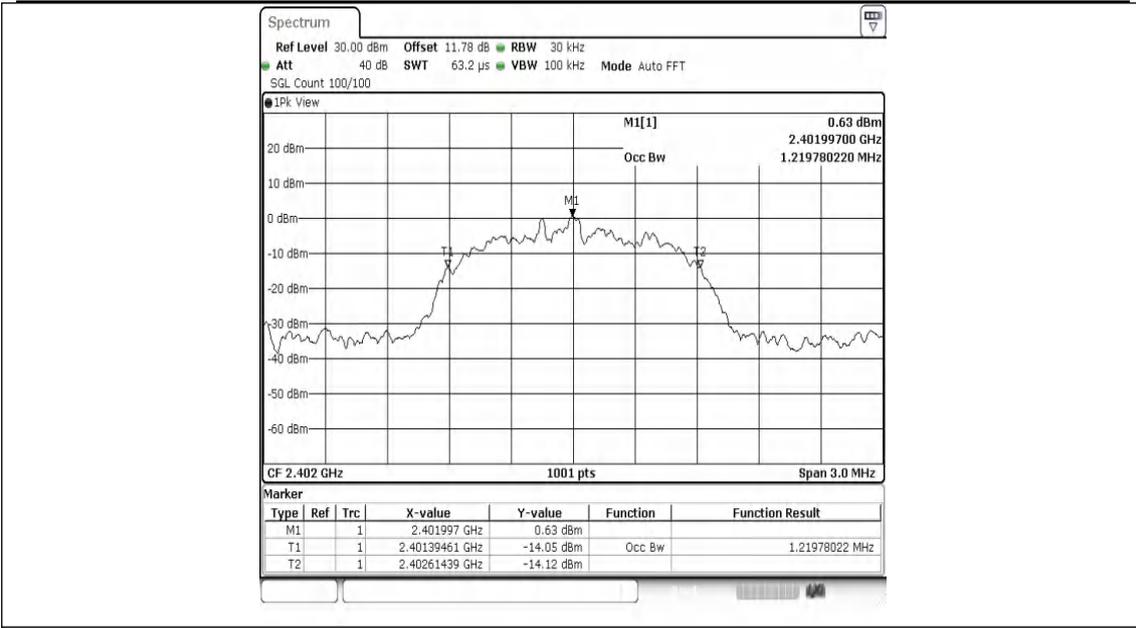


2DH5-Ant1-2441

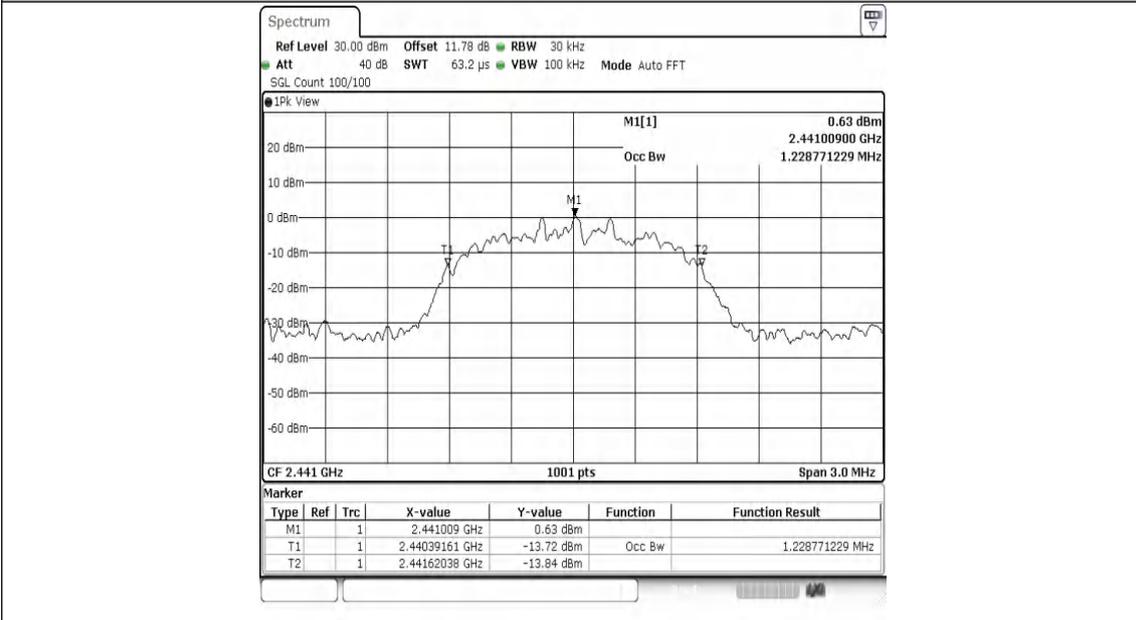


2DH5-Ant1-2480



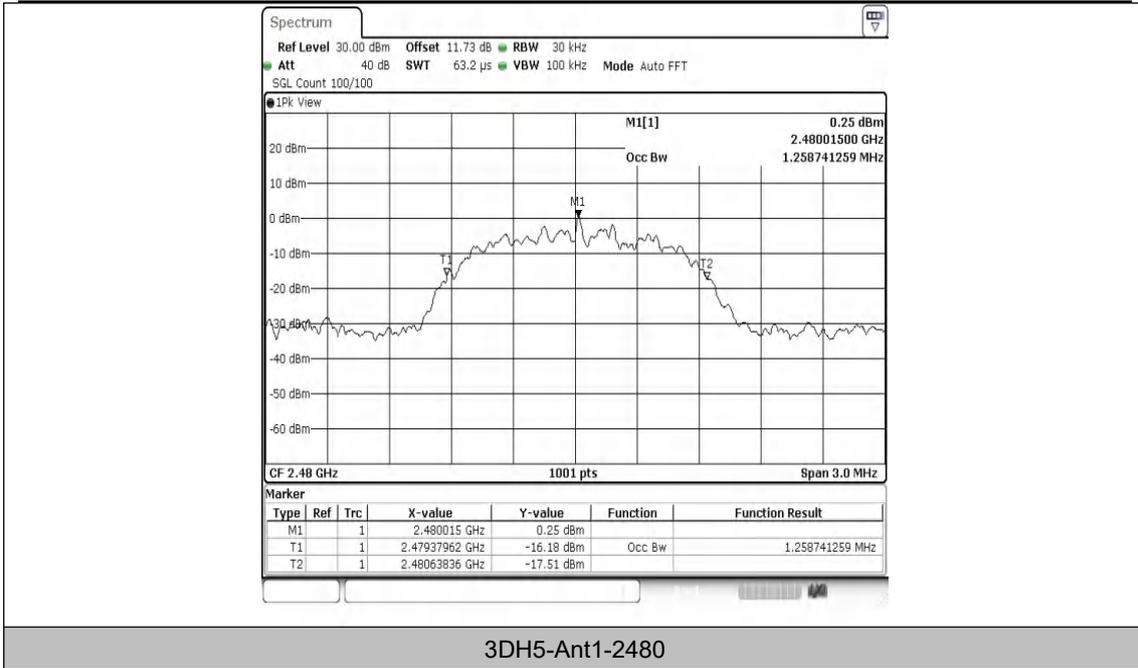


3DH5-Ant1-2402



3DH5-Ant1-2441





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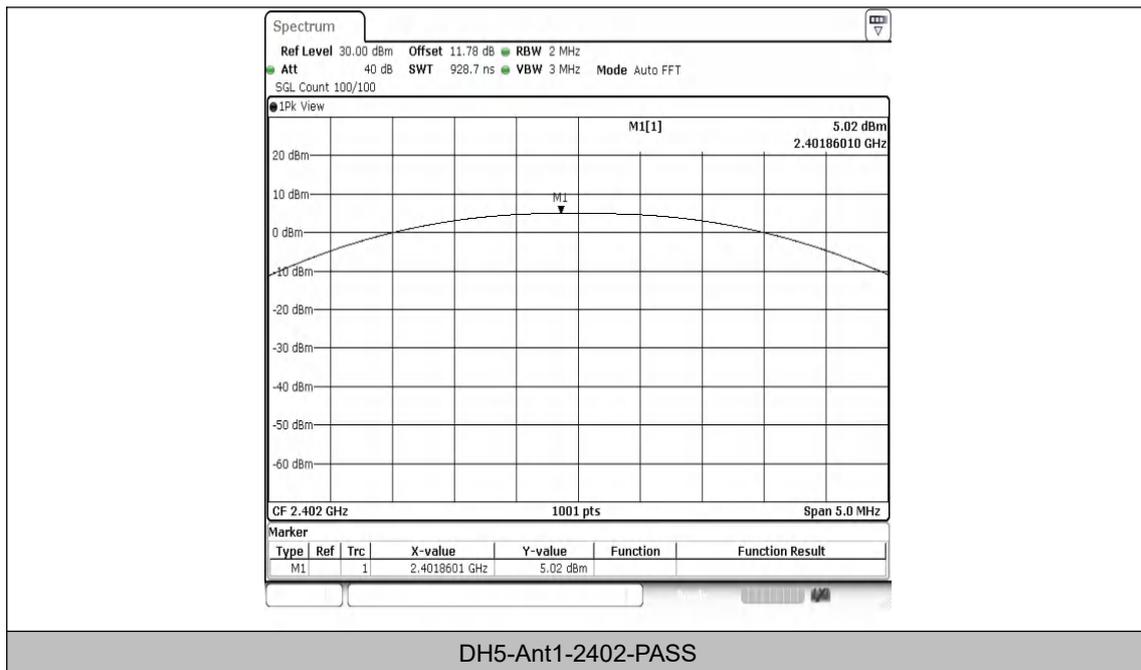


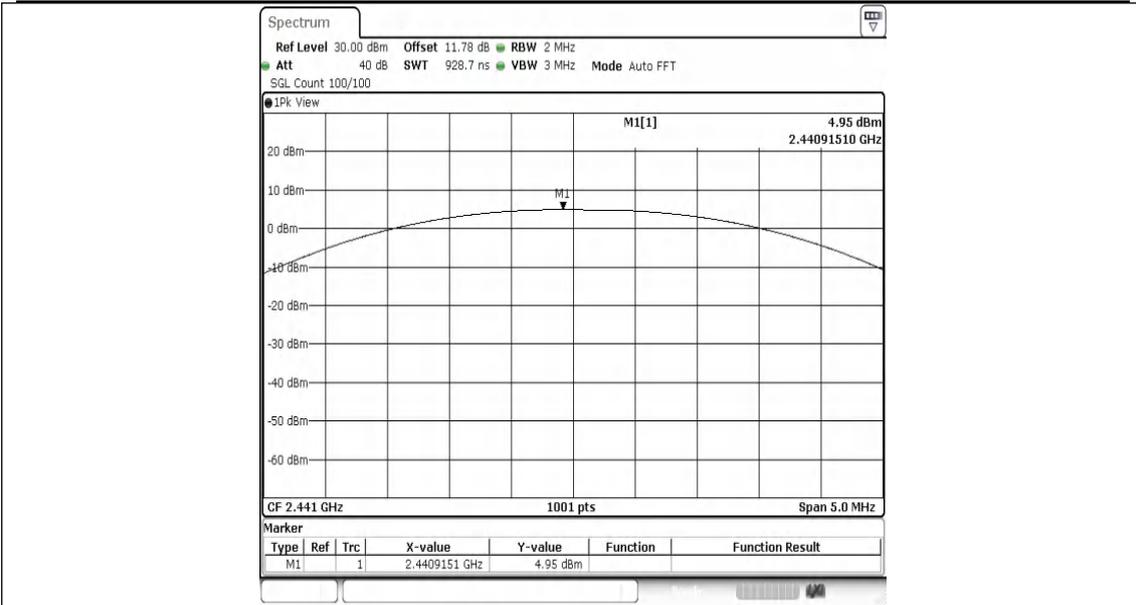
Appendix C: Maximum Conducted Output Power

Test Result Peak

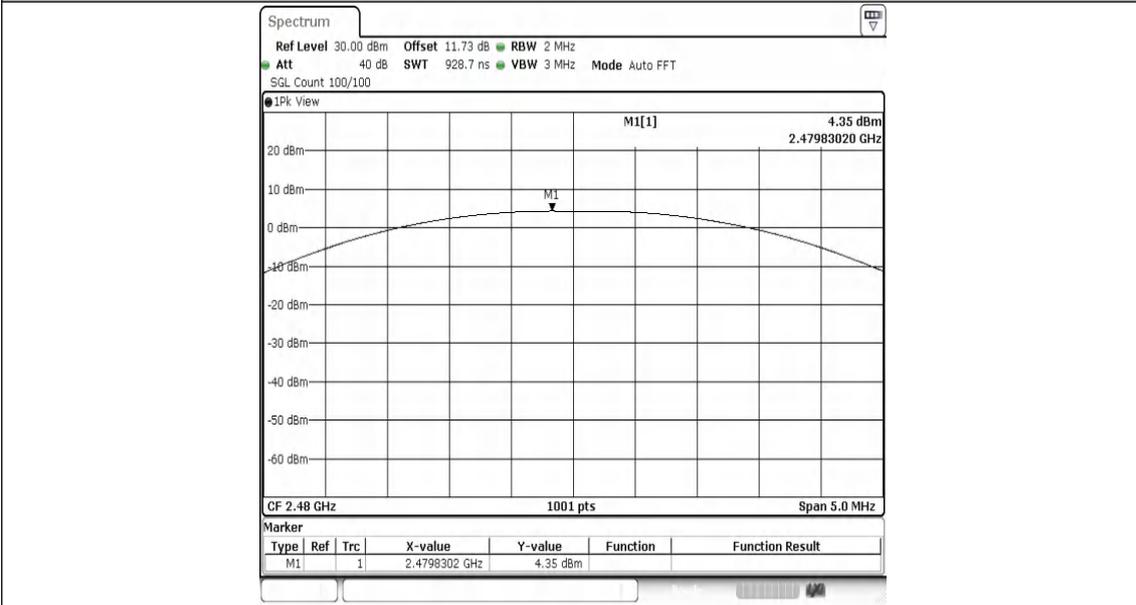
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	5.02	≤20.97	PASS
DH5	Ant1	2441	4.95	≤20.97	PASS
DH5	Ant1	2480	4.35	≤20.97	PASS
2DH5	Ant1	2402	5.24	≤20.97	PASS
2DH5	Ant1	2441	5.14	≤20.97	PASS
2DH5	Ant1	2480	4.53	≤20.97	PASS
3DH5	Ant1	2402	5.49	≤20.97	PASS
3DH5	Ant1	2441	5.15	≤20.97	PASS
3DH5	Ant1	2480	4.33	≤20.97	PASS

Test Graphs



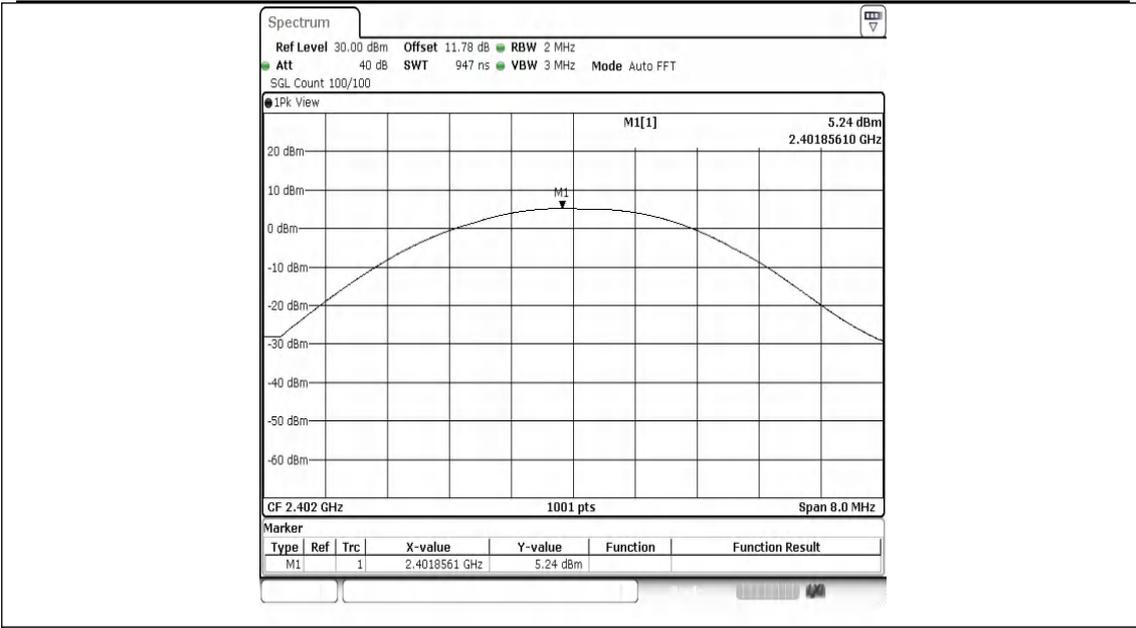


DH5-Ant1-2441-PASS

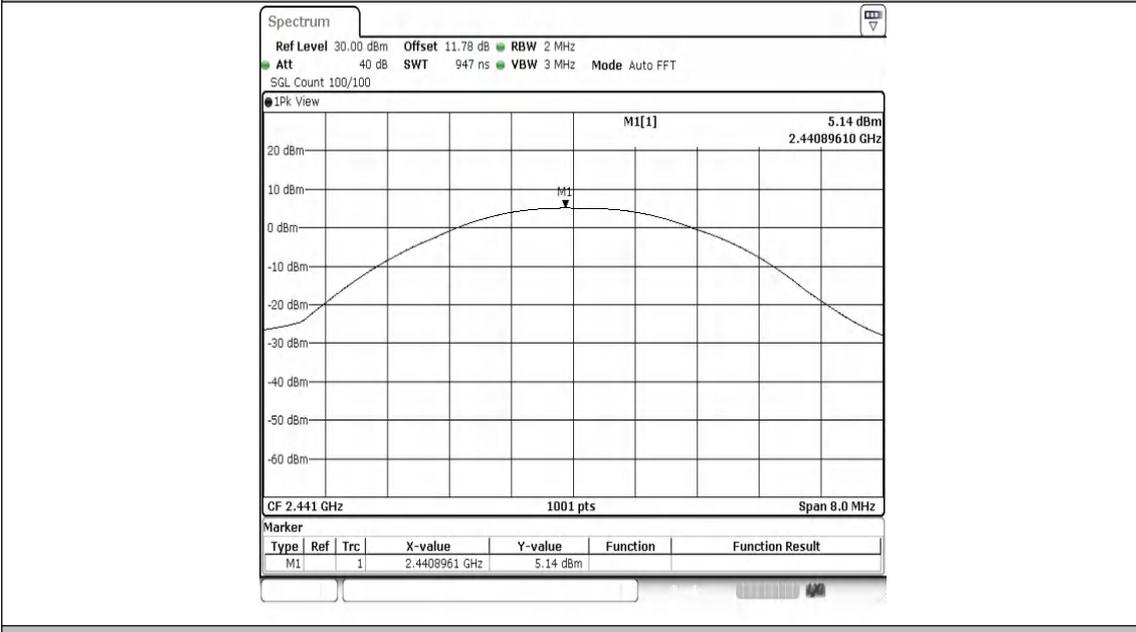


DH5-Ant1-2480-PASS



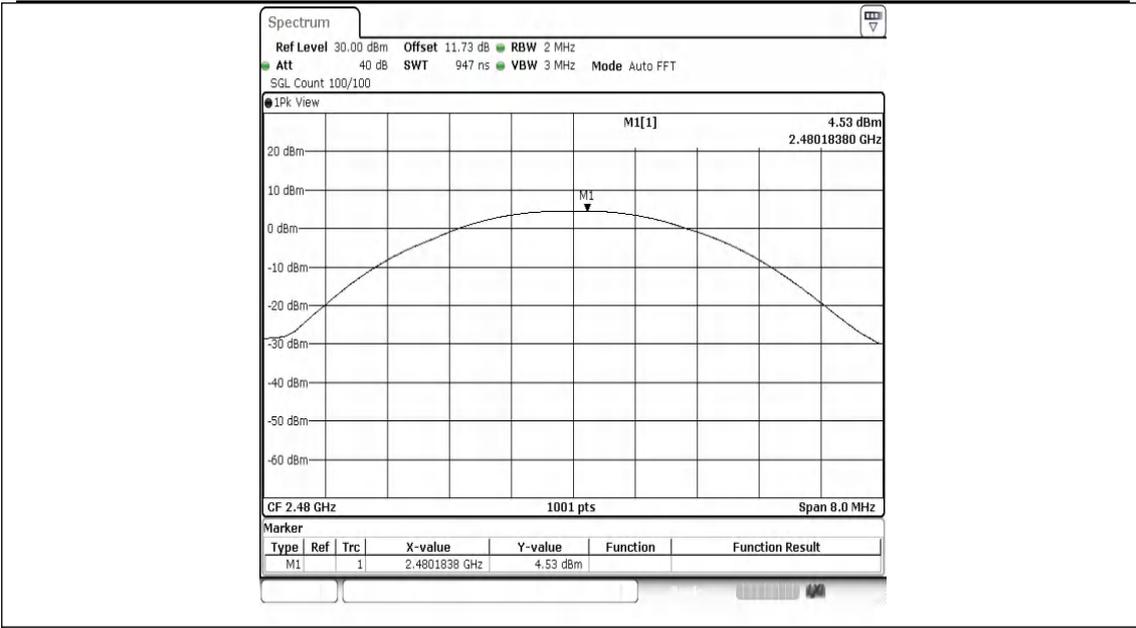


2DH5-Ant1-2402-PASS

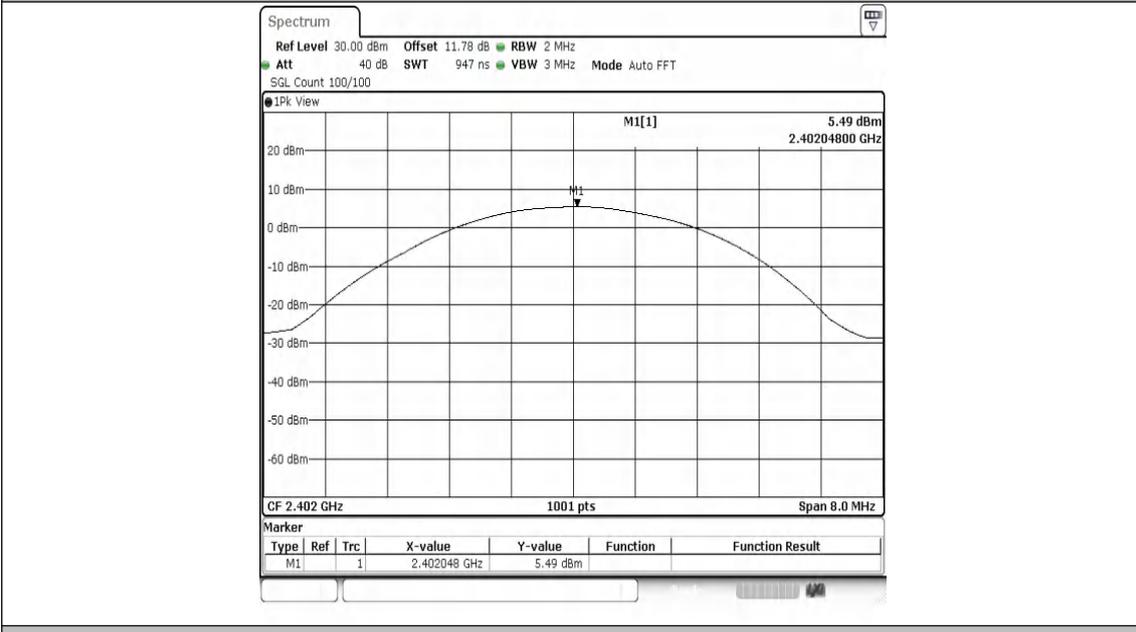


2DH5-Ant1-2441-PASS



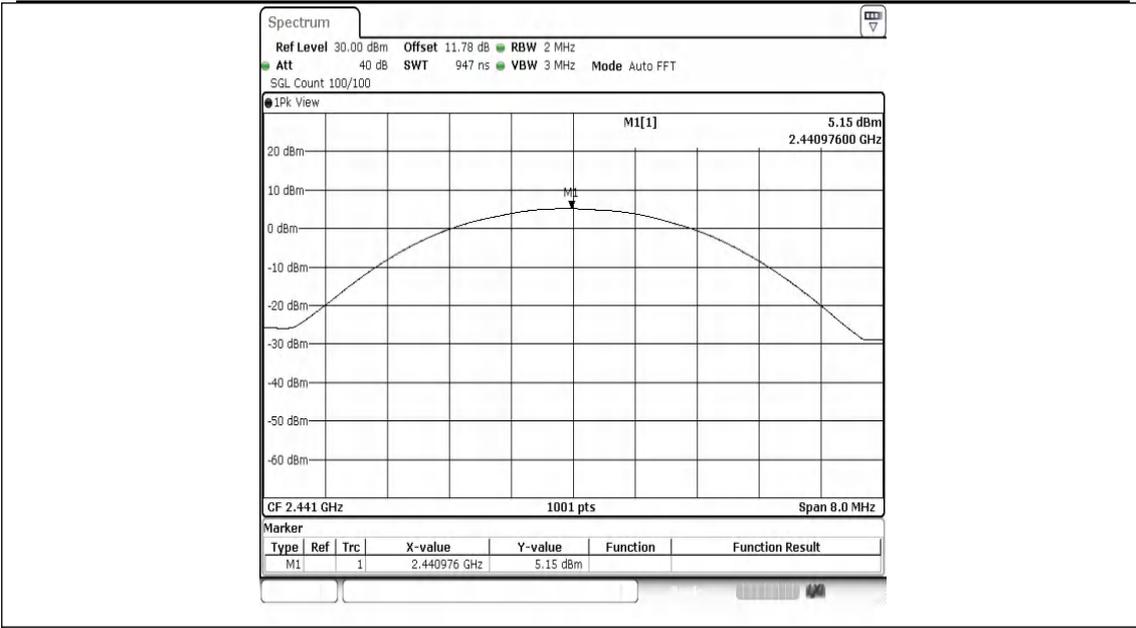


2DH5-Ant1-2480-PASS

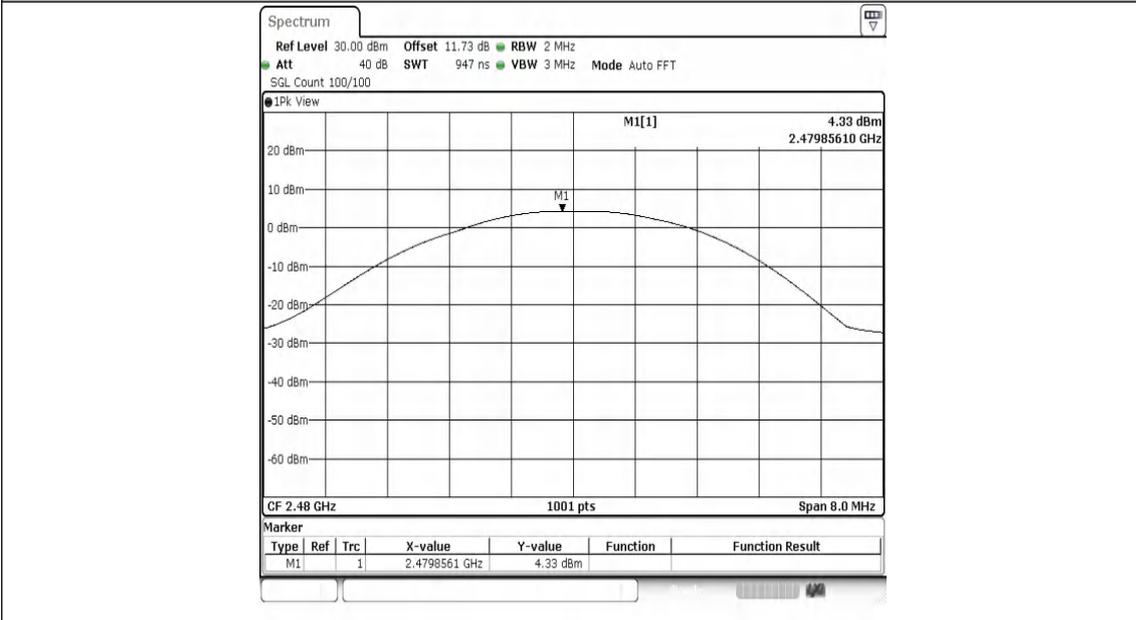


3DH5-Ant1-2402-PASS





3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS



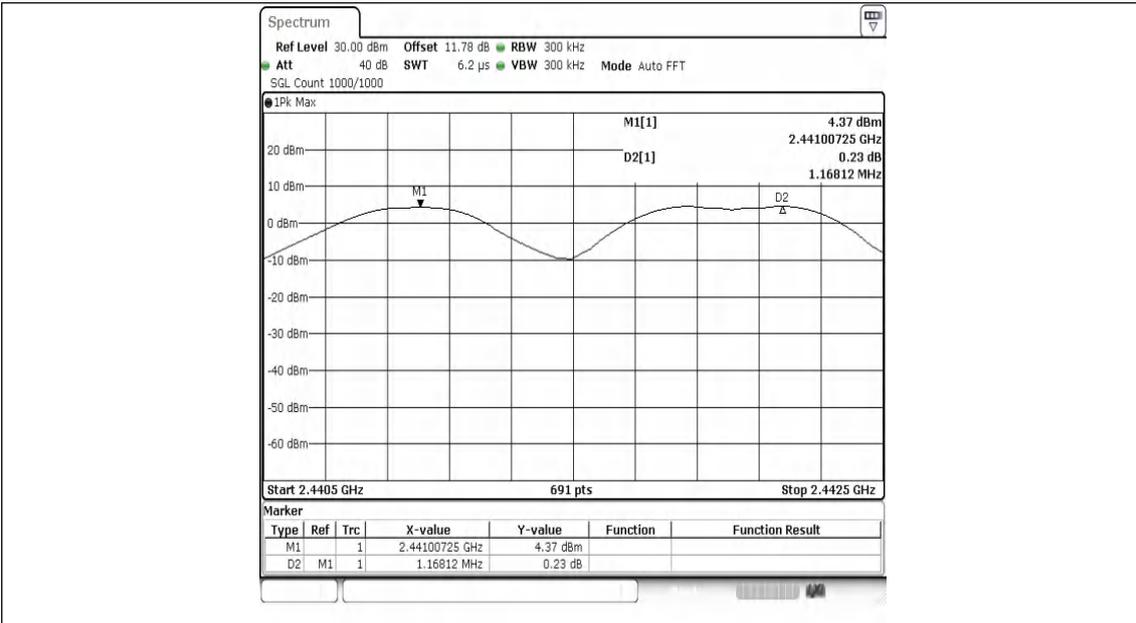
Appendix D: Carrier frequency separation

Test Result

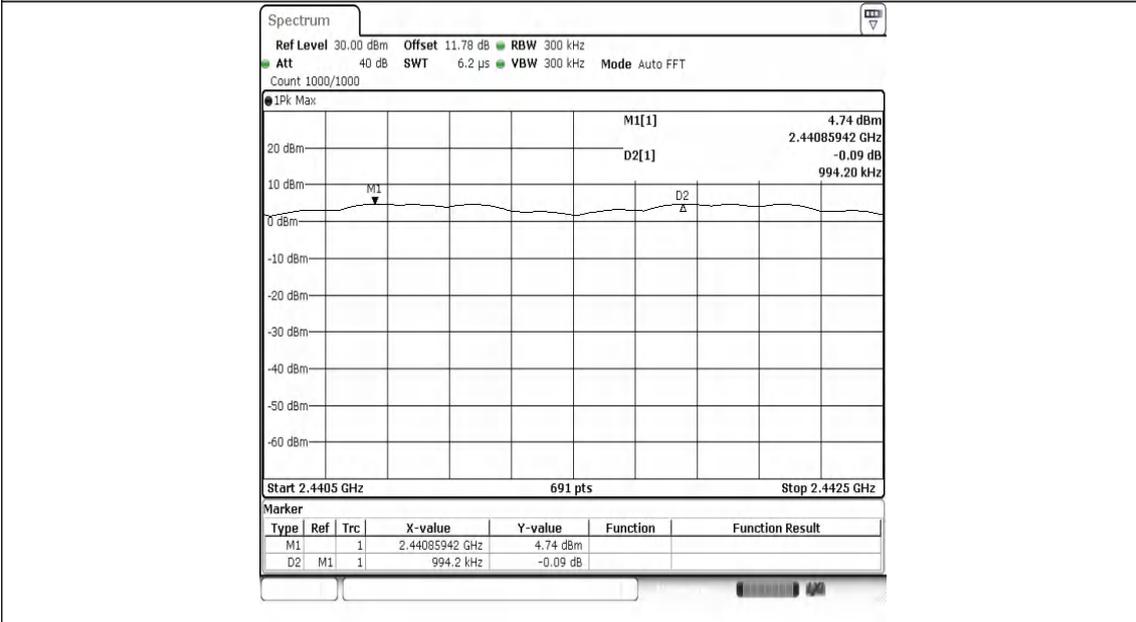
Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.168	≥0.640	PASS
2DH5	Ant1	Hop	0.994	≥0.900	PASS
3DH5	Ant1	Hop	1.18	≥0.947	PASS



Test Graphs

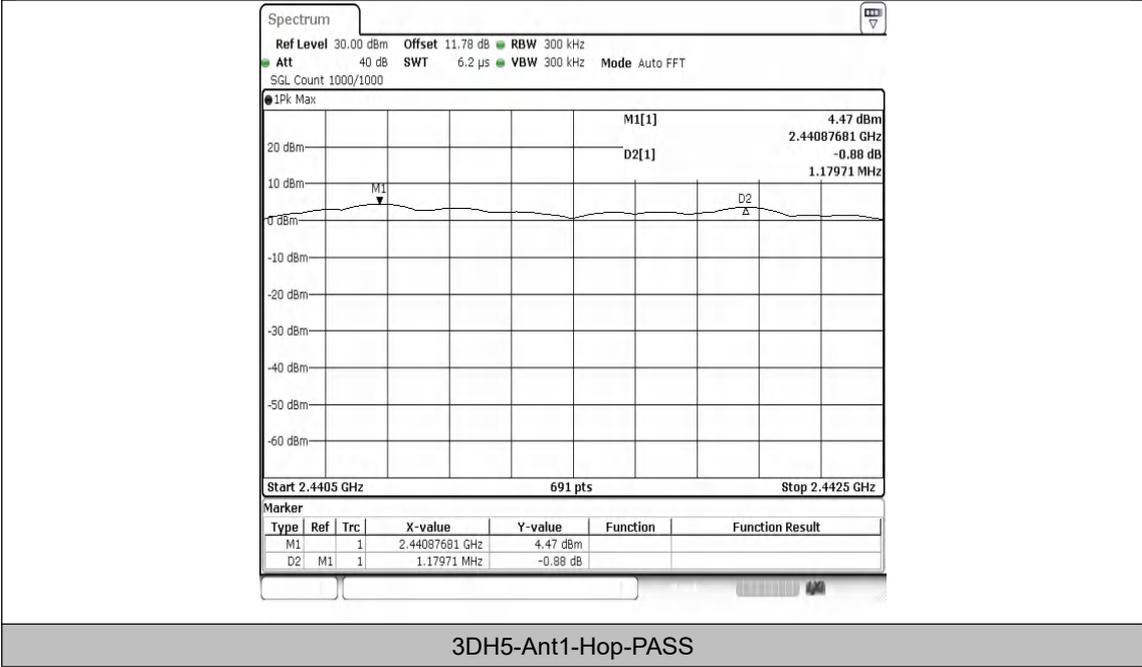


DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS





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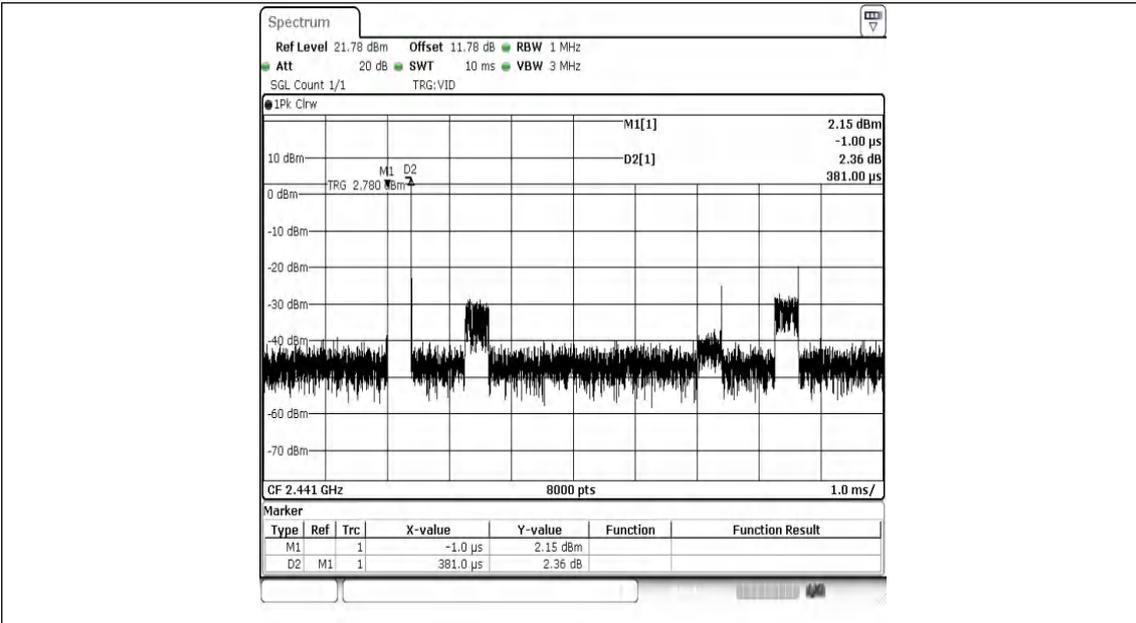
Appendix E: Dwell Time

Test Result

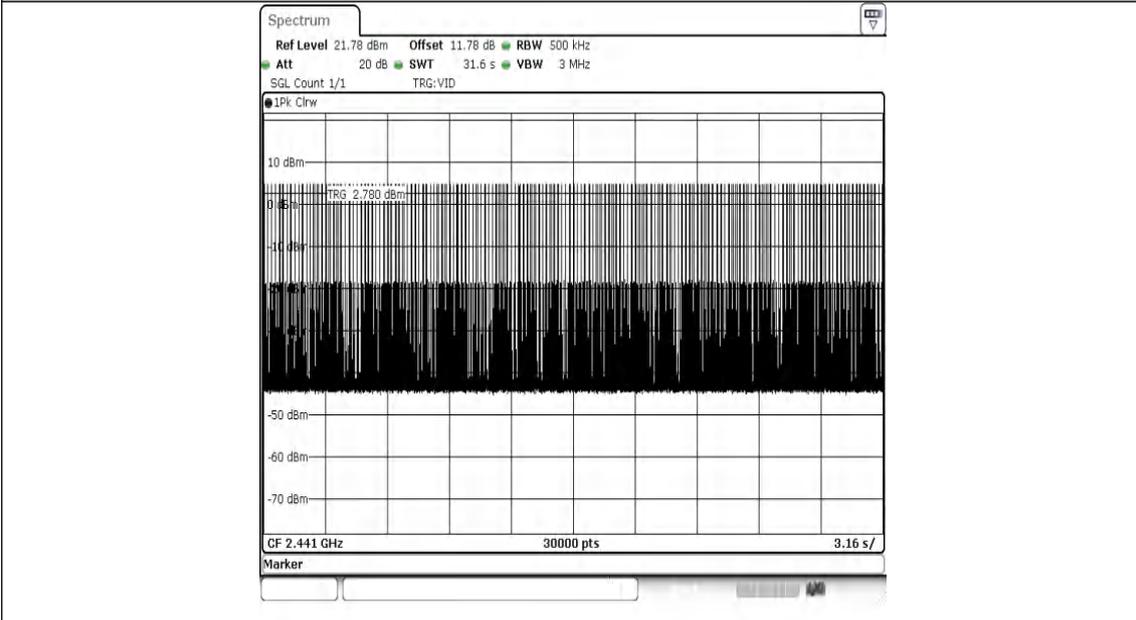
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
DH1	Ant1	Hop	0.381	320	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.639	166	0.272	≤0.4	PASS
DH5	Ant1	Hop	2.885	104	0.300	≤0.4	PASS
2DH1	Ant1	Hop	0.391	318	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.643	167	0.274	≤0.4	PASS
2DH5	Ant1	Hop	2.890	110	0.318	≤0.4	PASS
3DH1	Ant1	Hop	0.391	321	0.126	≤0.4	PASS
3DH3	Ant1	Hop	1.641	166	0.272	≤0.4	PASS
3DH5	Ant1	Hop	2.893	87	0.252	≤0.4	PASS

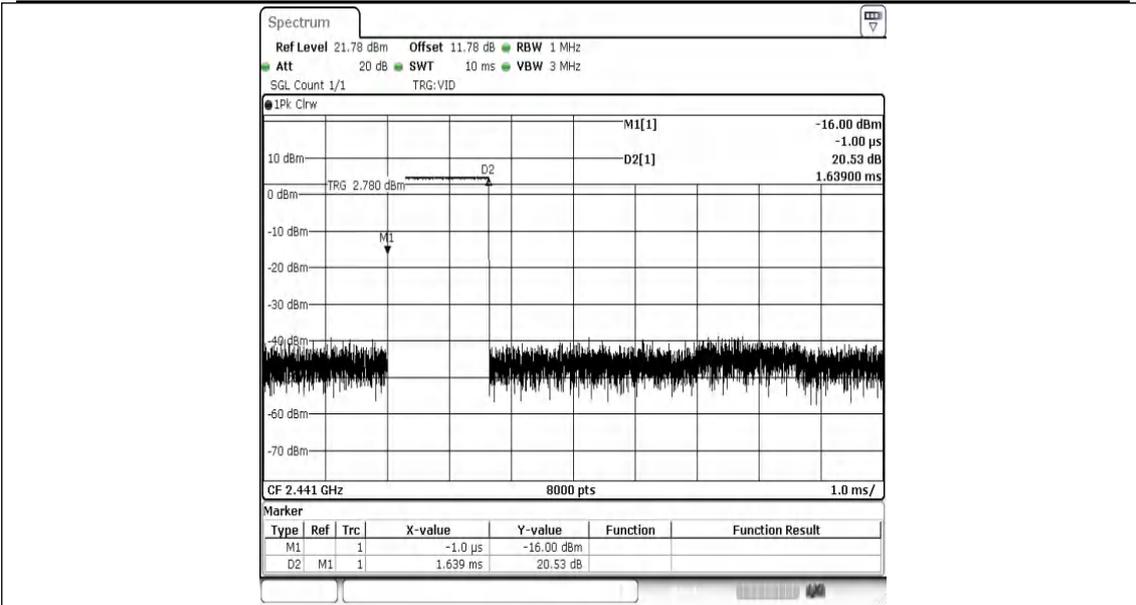


Test Graphs

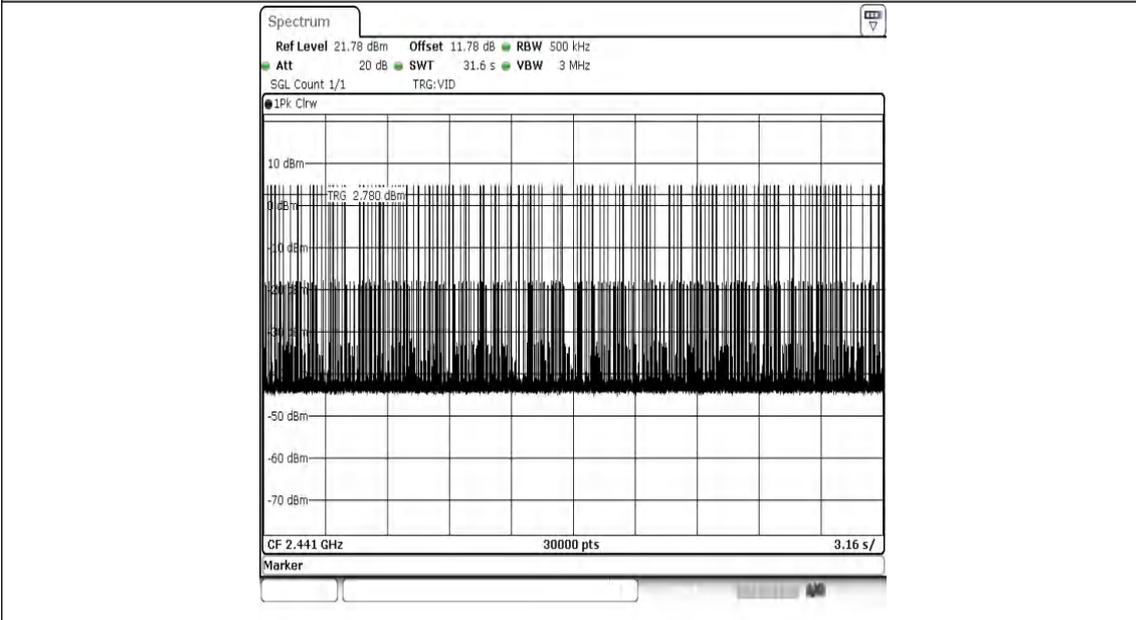


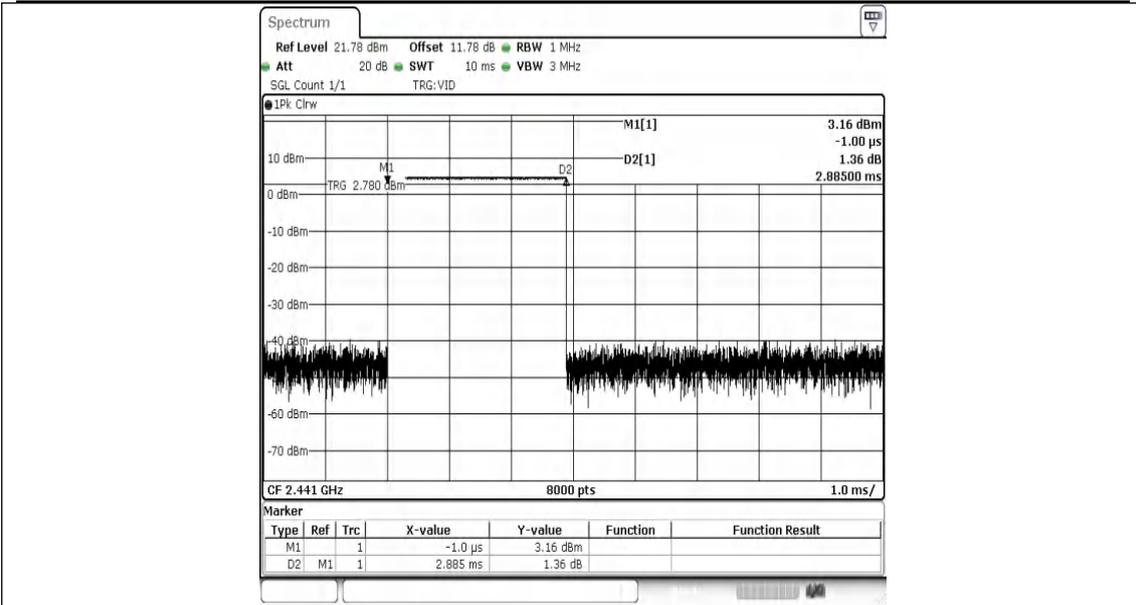
DH1-Ant1-Hop-PASS



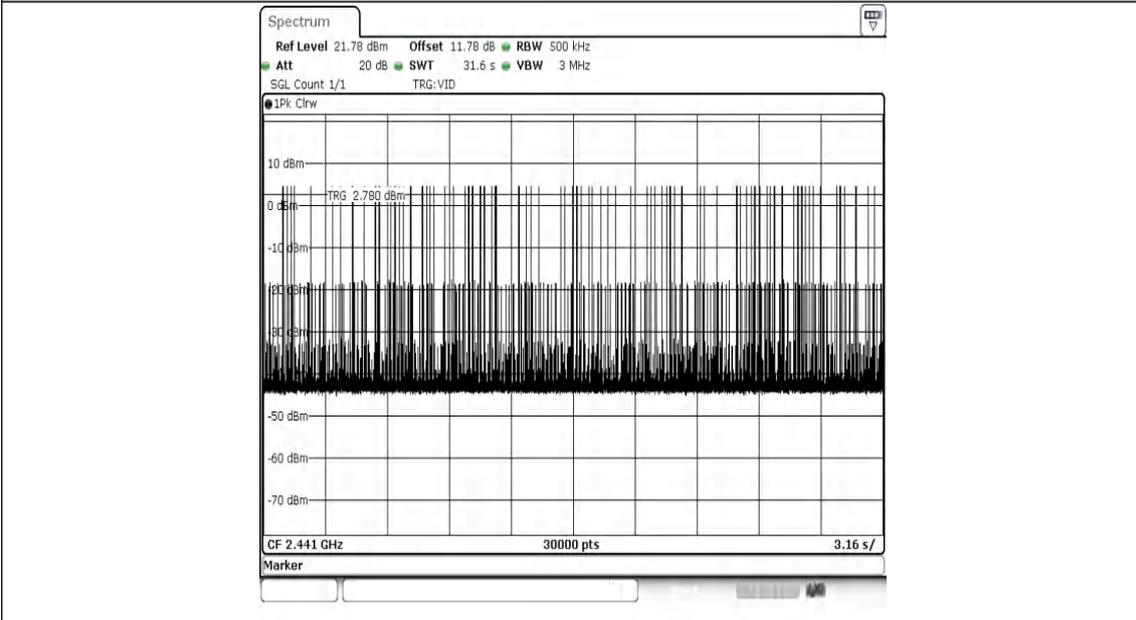


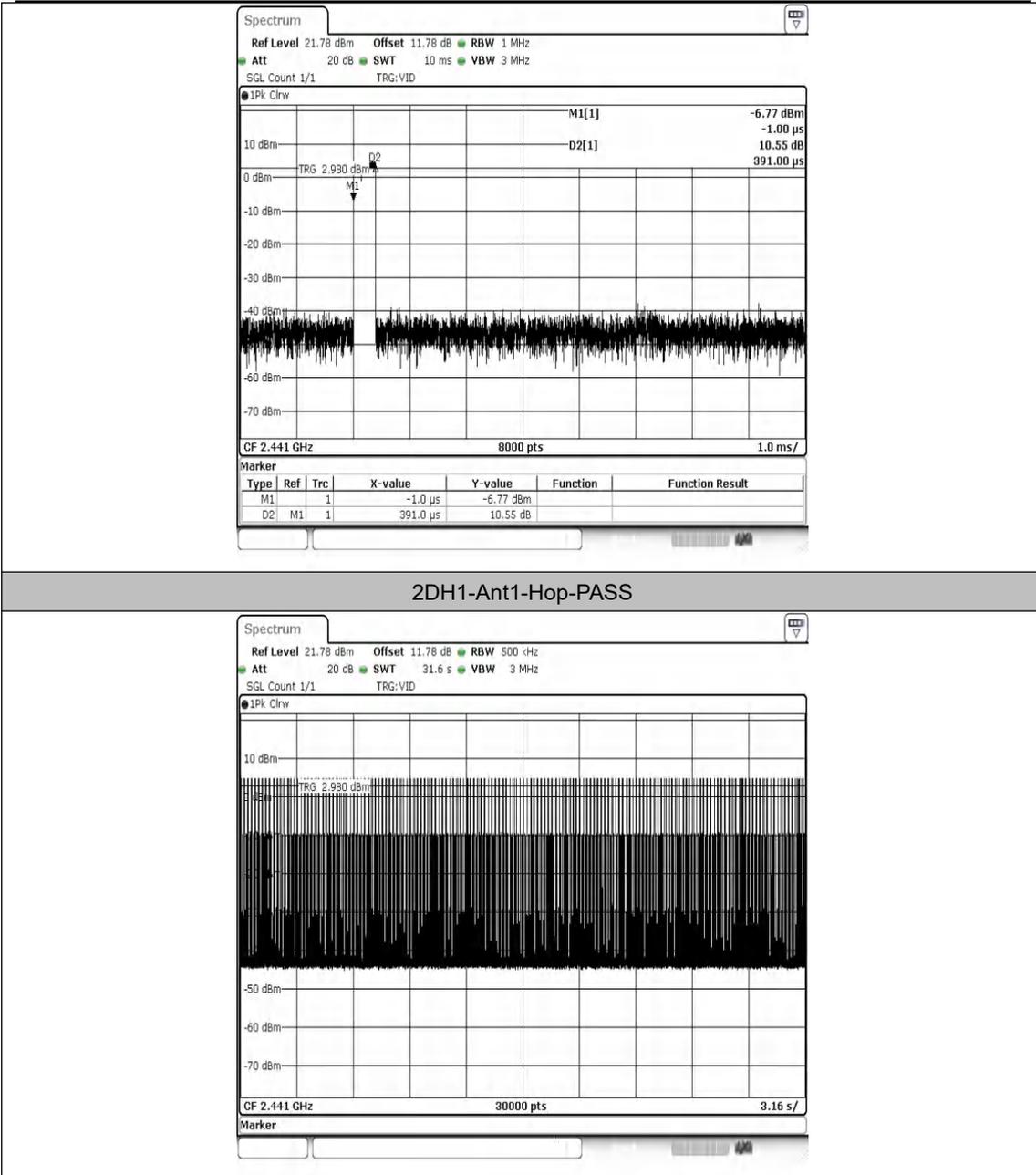
DH3-Ant1-Hop-PASS





DH5-Ant1-Hop-PASS



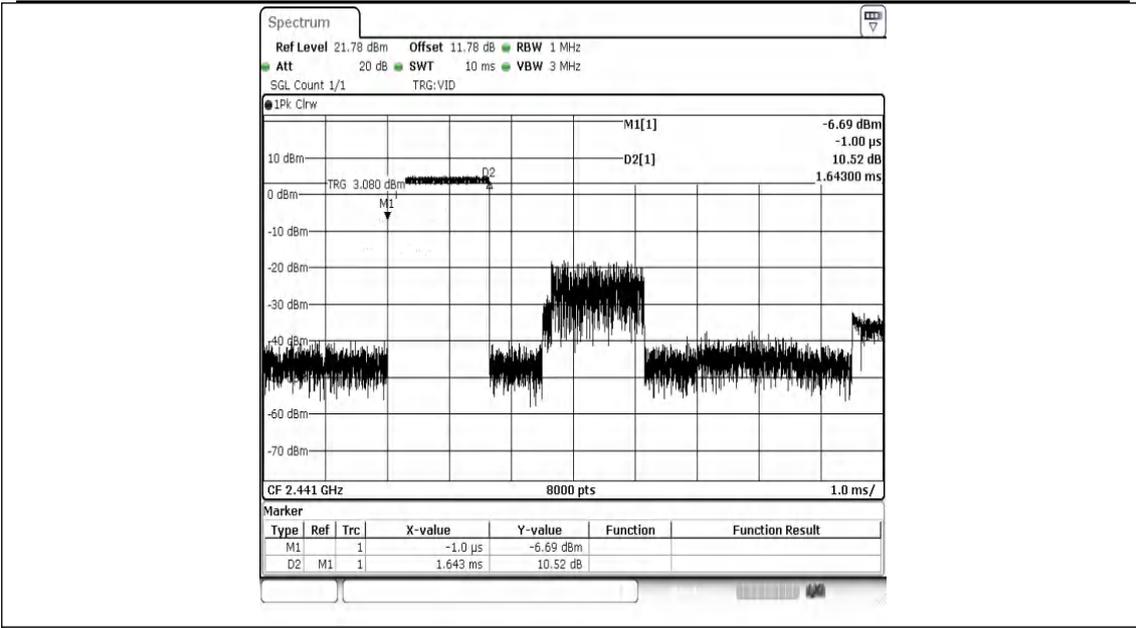


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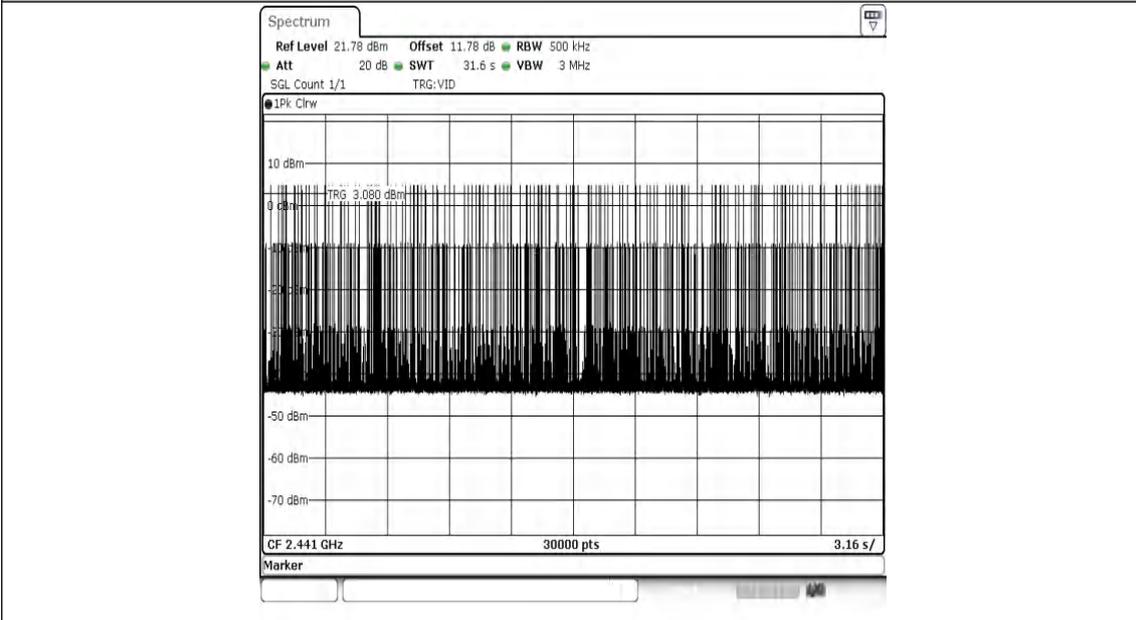
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 Tel:(86)0755-26066440 Email:service@anbotek.com

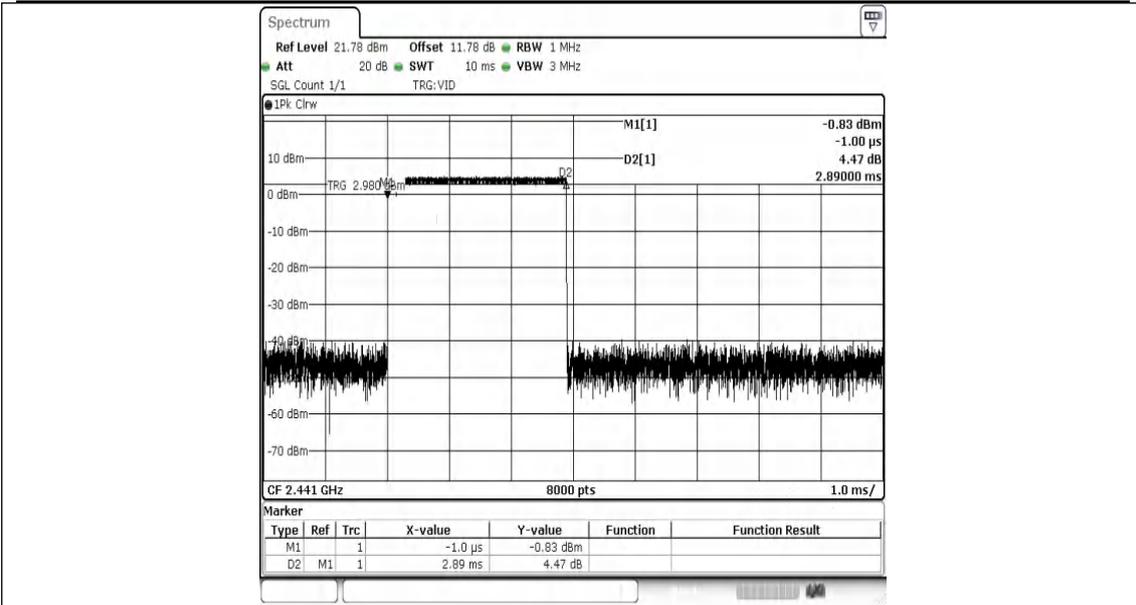
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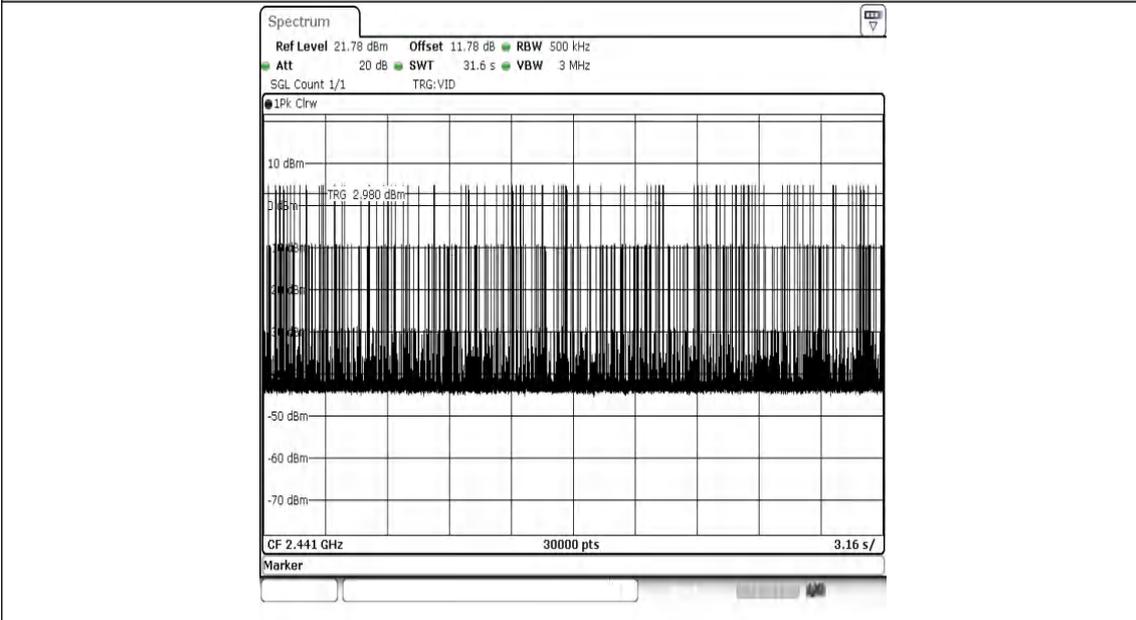


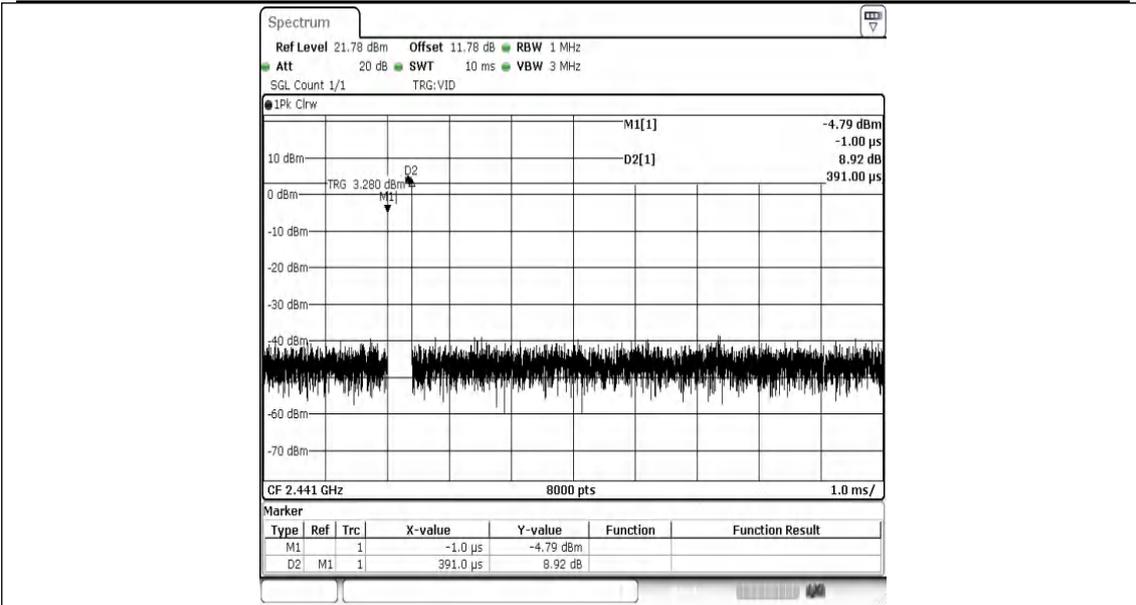
2DH3-Ant1-Hop-PASS



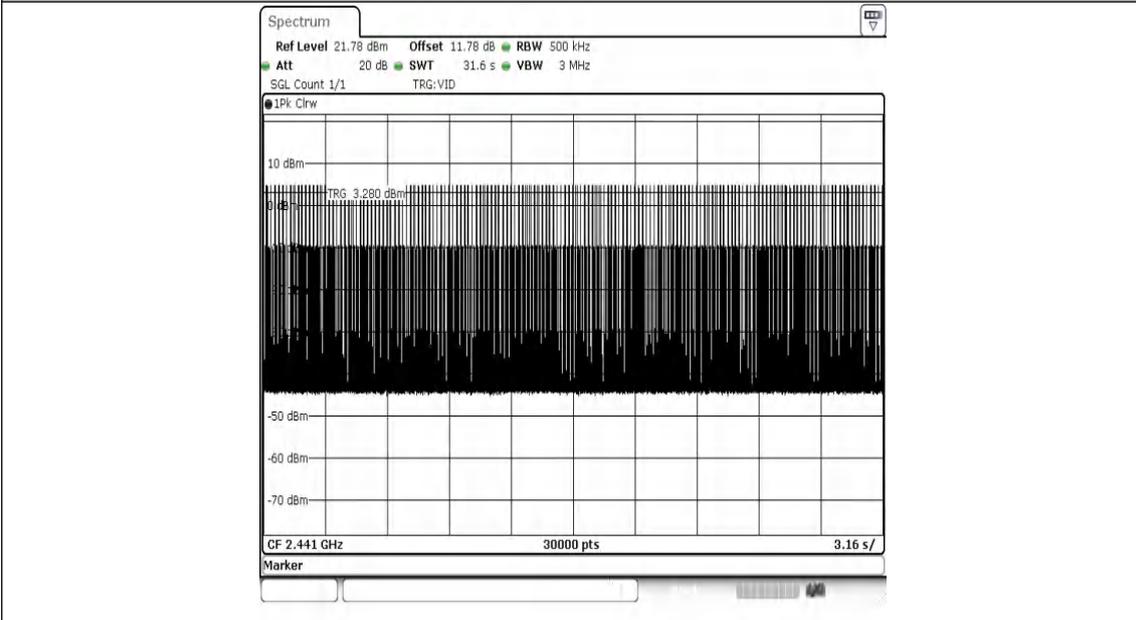


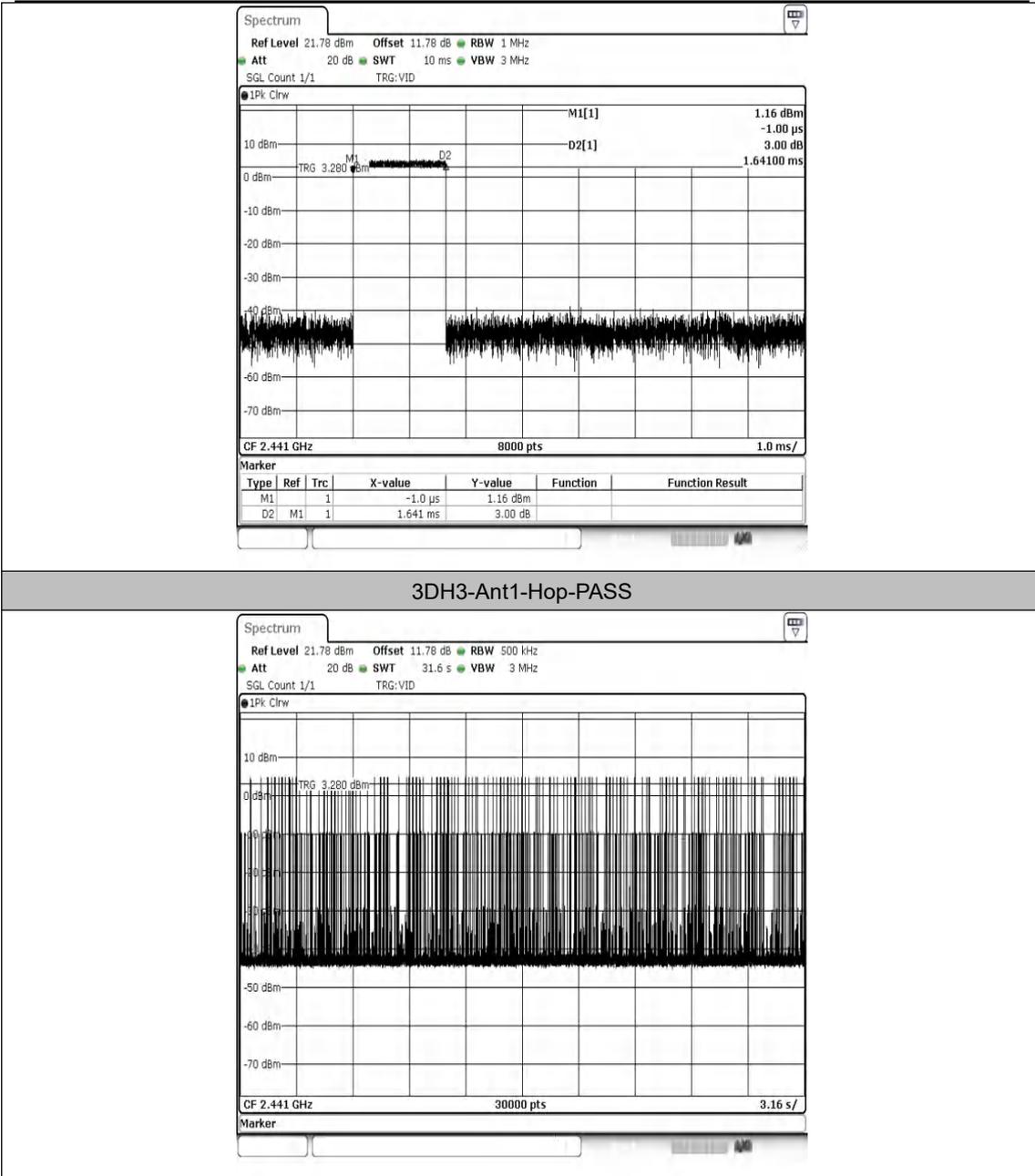
2DH5-Ant1-Hop-PASS





3DH1-Ant1-Hop-PASS



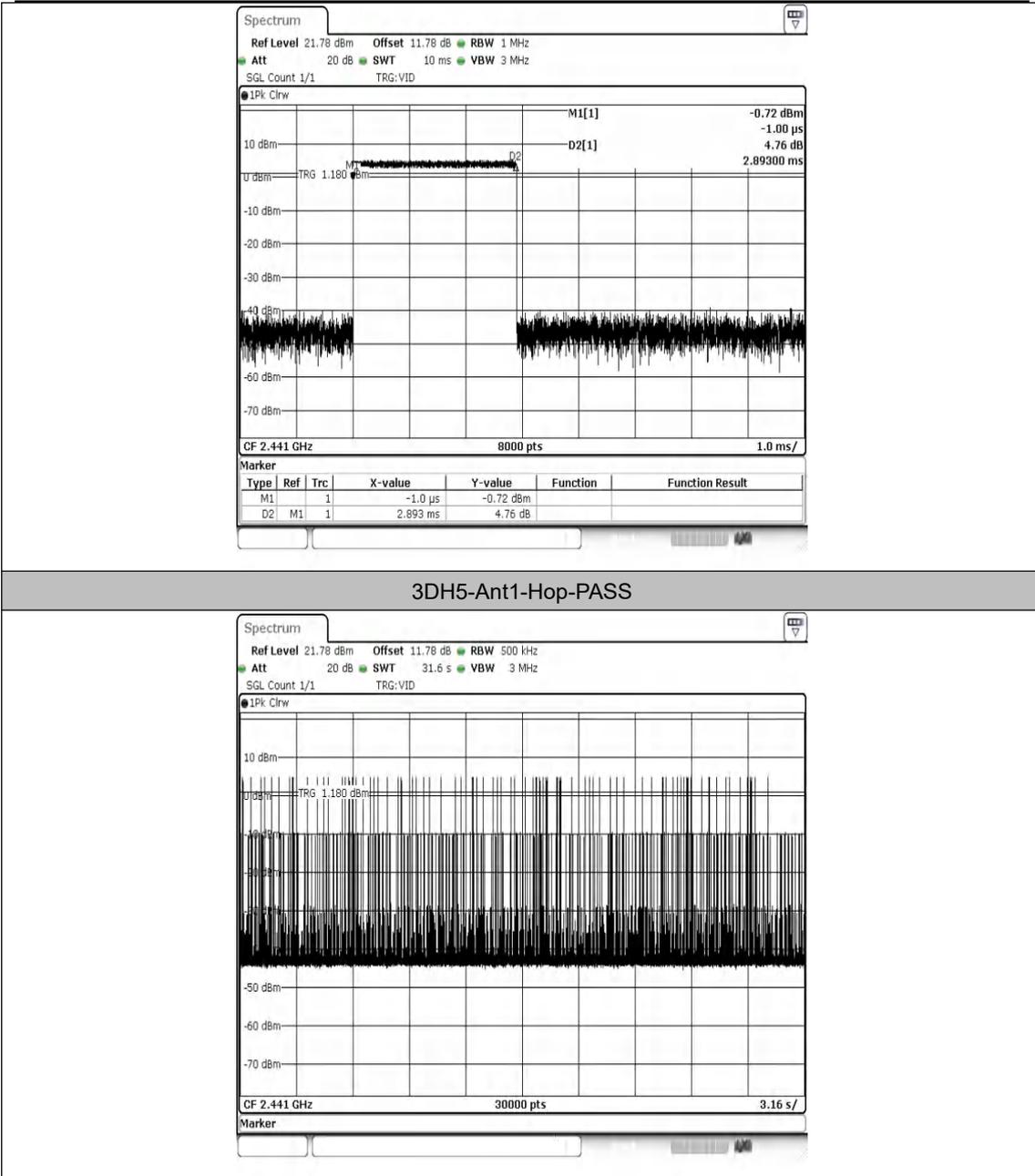


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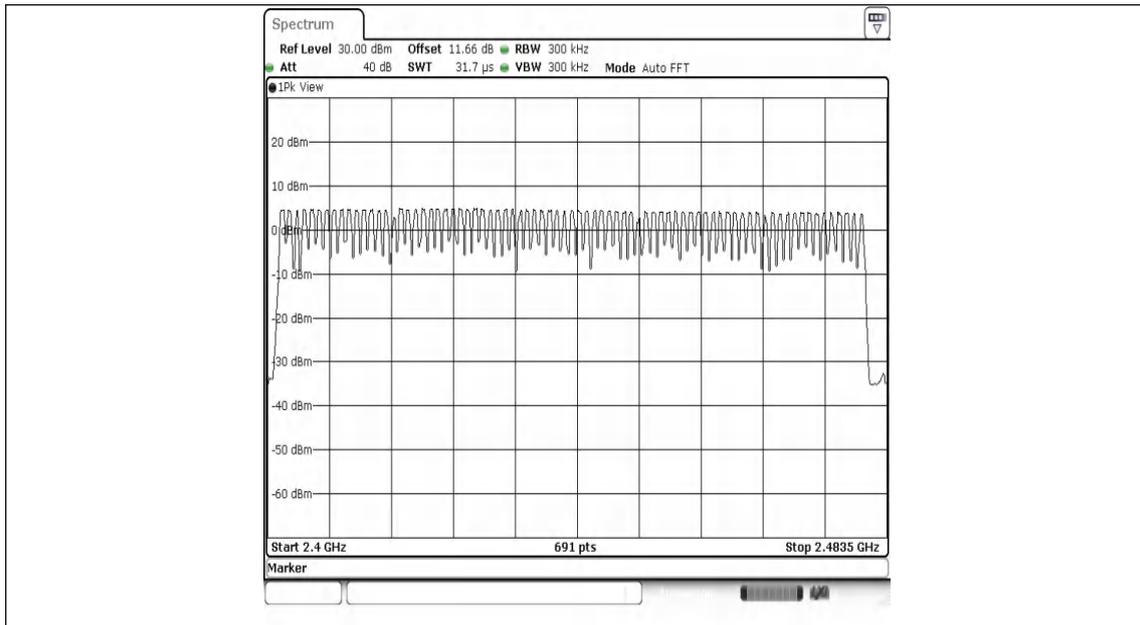
Appendix F: Number of Hopping Channel

Test Result

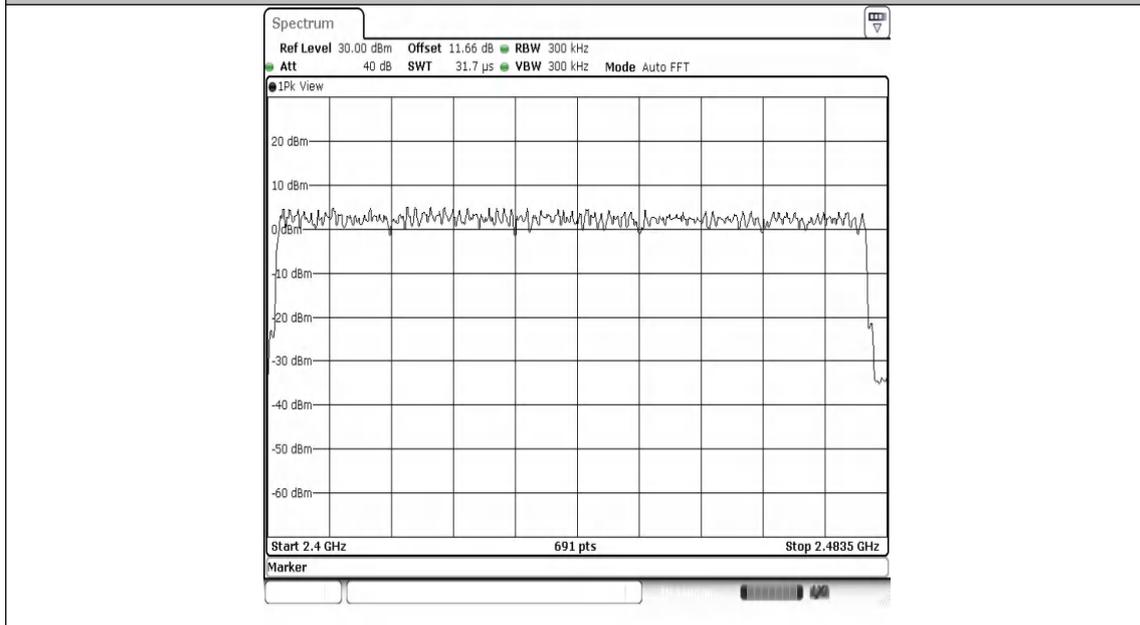
Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



Test Graphs

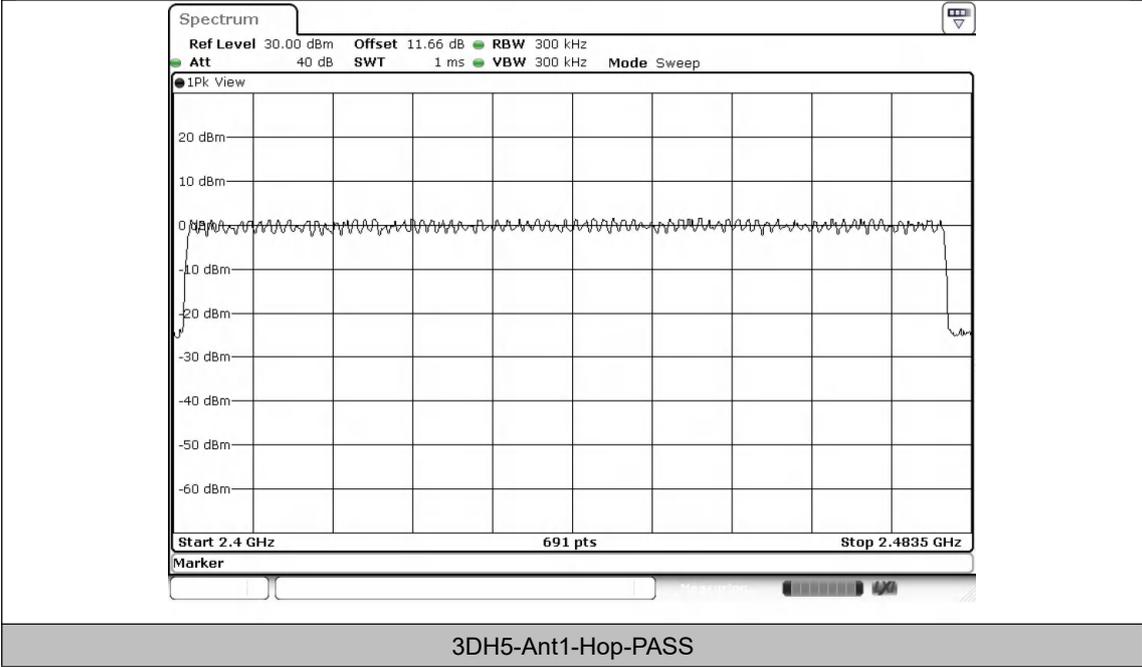


DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS





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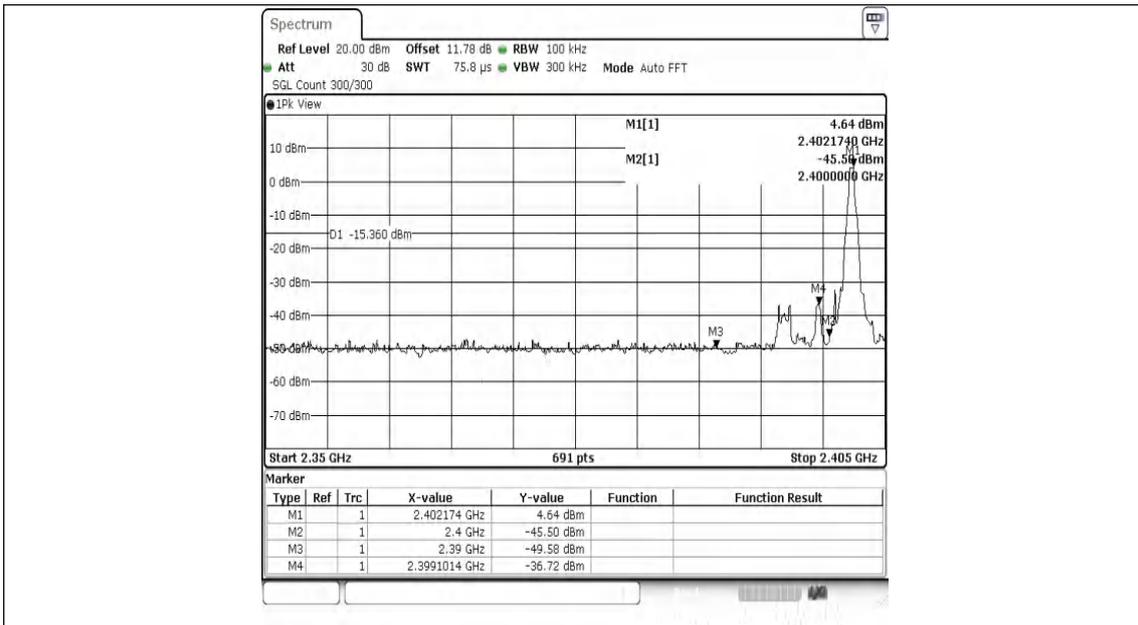
Appendix G: Conducted Band edge

Test Result

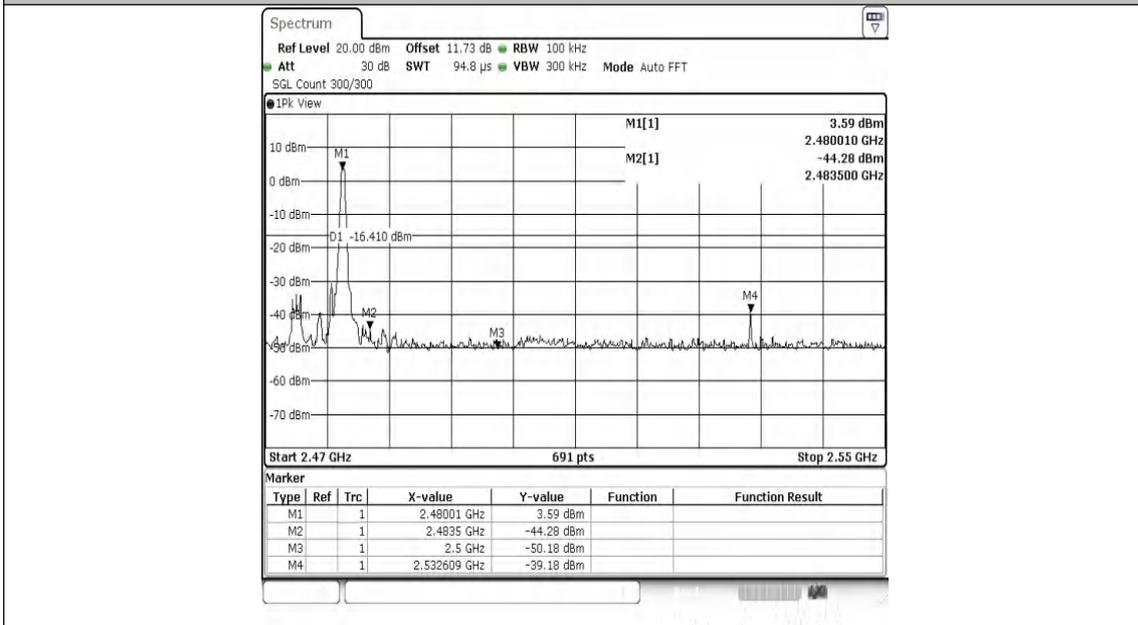
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.64	-36.72	≤-15.36	PASS
DH5	Ant1	High	2480	3.59	-39.18	≤-16.41	PASS
DH5	Ant1	Low	Hop_2402	3.66	-38.26	≤-16.34	PASS
DH5	Ant1	High	Hop_2480	3.59	-43.92	≤-16.41	PASS
2DH5	Ant1	Low	2402	4.67	-37.22	≤-15.33	PASS
2DH5	Ant1	High	2480	4.01	-35.46	≤-15.99	PASS
2DH5	Ant1	Low	Hop_2402	1.05	-39.42	≤-18.95	PASS
2DH5	Ant1	High	Hop_2480	2.03	-44.99	≤-17.97	PASS
3DH5	Ant1	Low	2402	4.55	-35.96	≤-15.45	PASS
3DH5	Ant1	High	2480	4.00	-45.47	≤-16	PASS
3DH5	Ant1	Low	Hop_2402	1.38	-40.67	≤-18.62	PASS
3DH5	Ant1	High	Hop_2480	1.47	-45.2	≤-18.53	PASS



Test Graphs

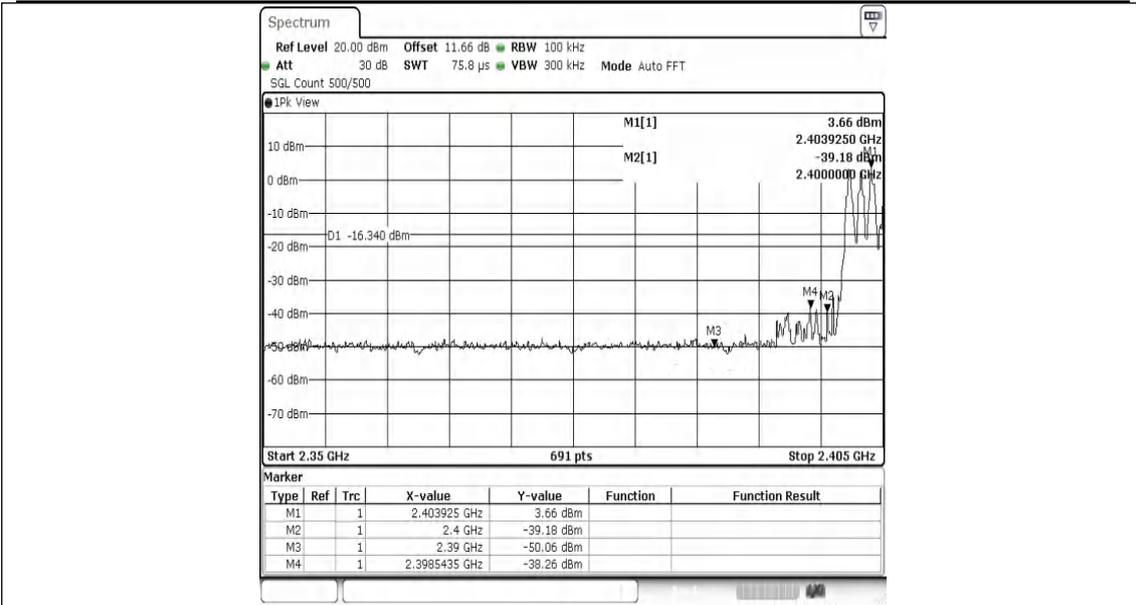


DH5-Ant1-2402-PASS

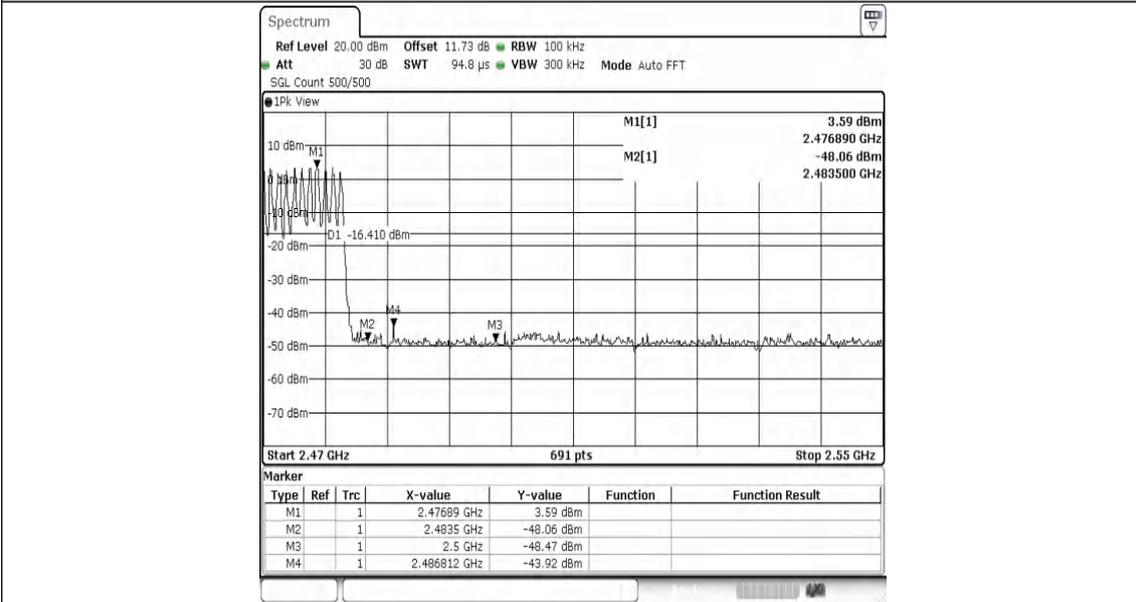


DH5-Ant1-2480-PASS



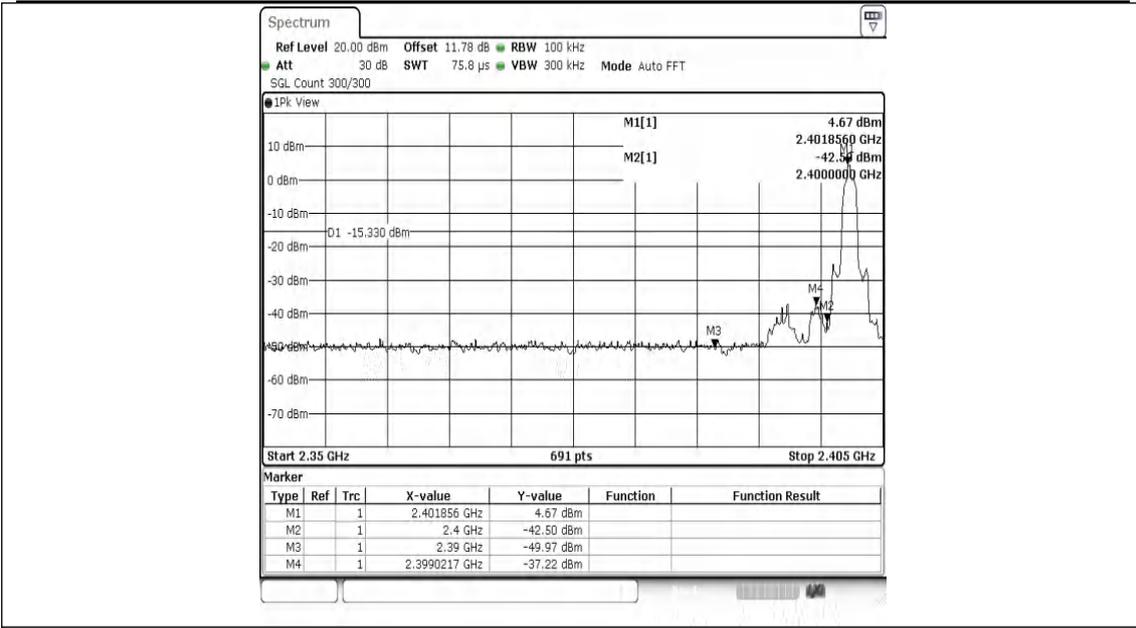


DH5-Ant1-Hop_2402-PASS

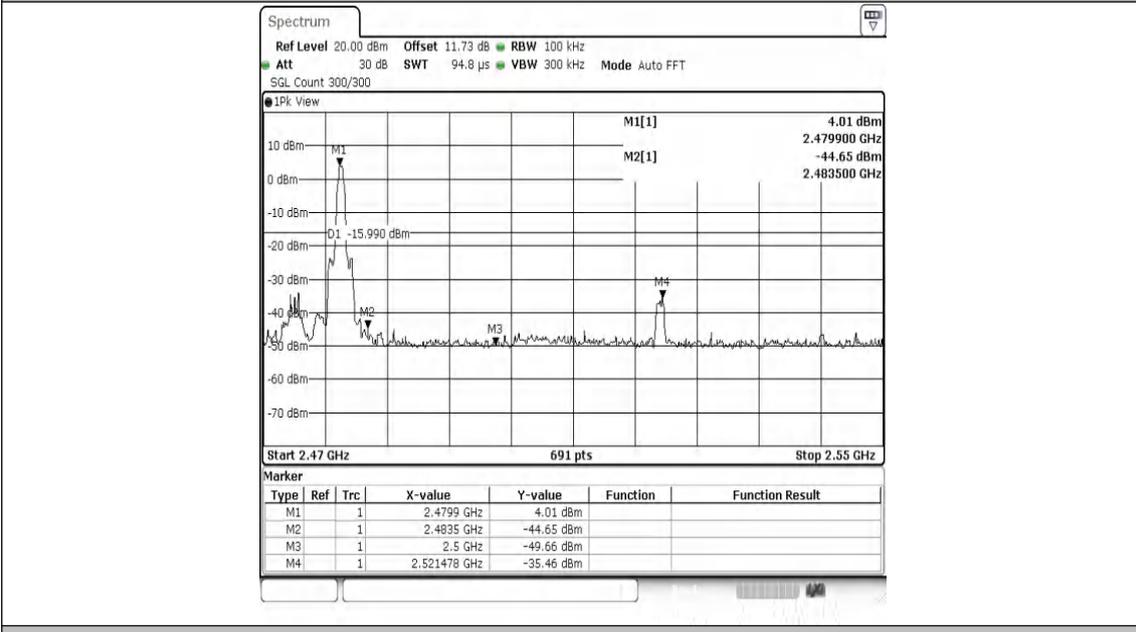


DH5-Ant1-Hop_2480-PASS



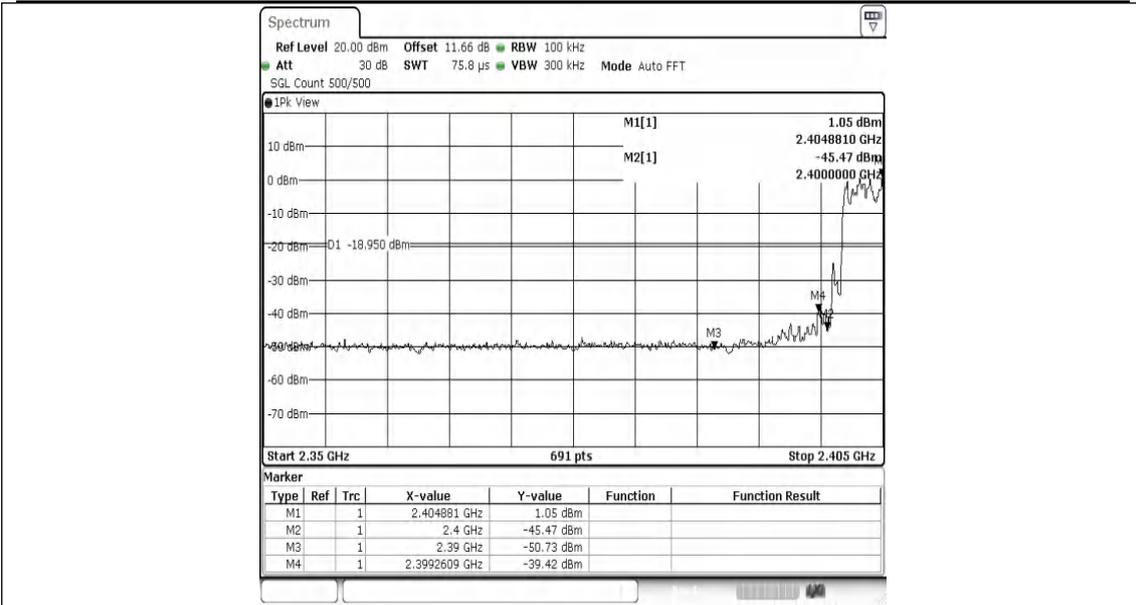


2DH5-Ant1-2402-PASS

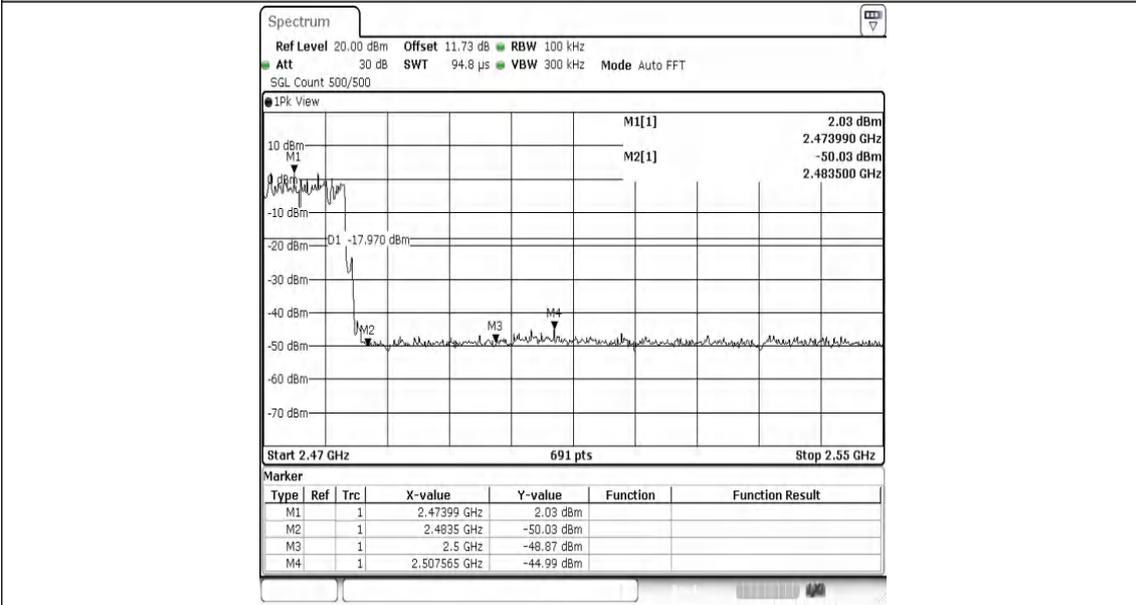


2DH5-Ant1-2480-PASS



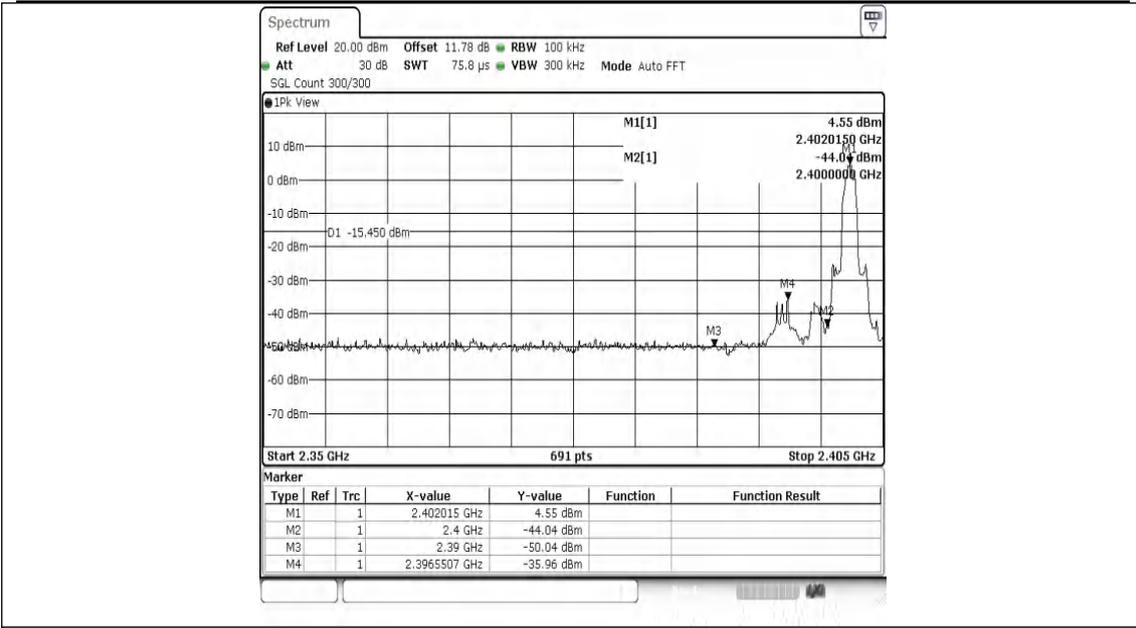


2DH5-Ant1-Hop_2402-PASS

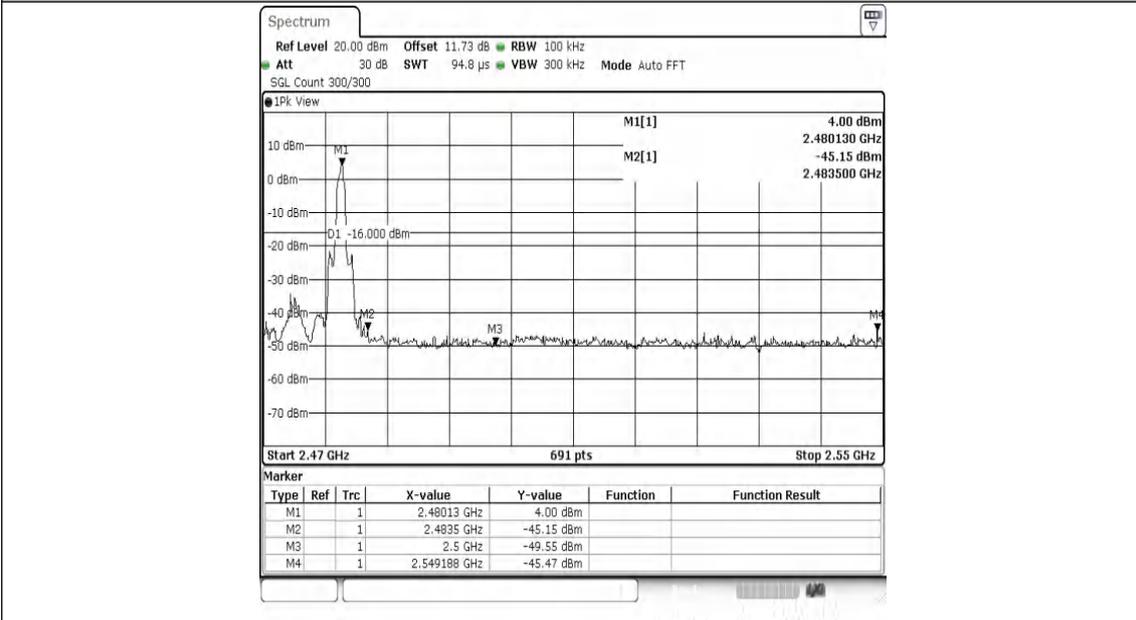


2DH5-Ant1-Hop_2480-PASS





3DH5-Ant1-2402-PASS

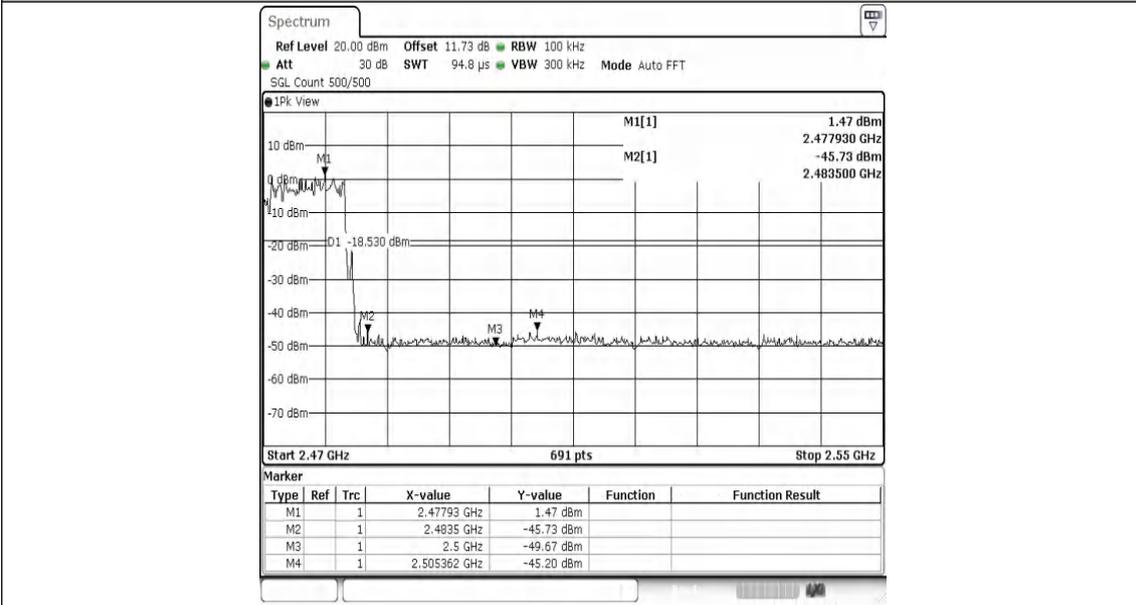


3DH5-Ant1-2480-PASS





3DH5-Ant1-Hop_2402-PASS



3DH5-Ant1-Hop_2480-PASS



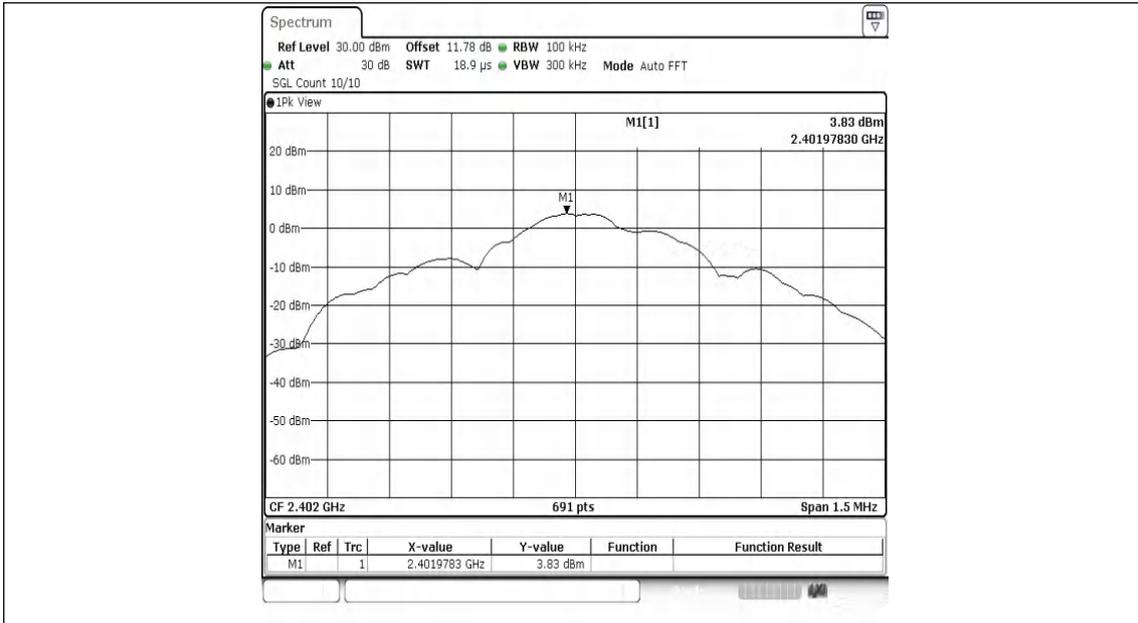
Appendix H: Conducted Spurious Emission

Test Result

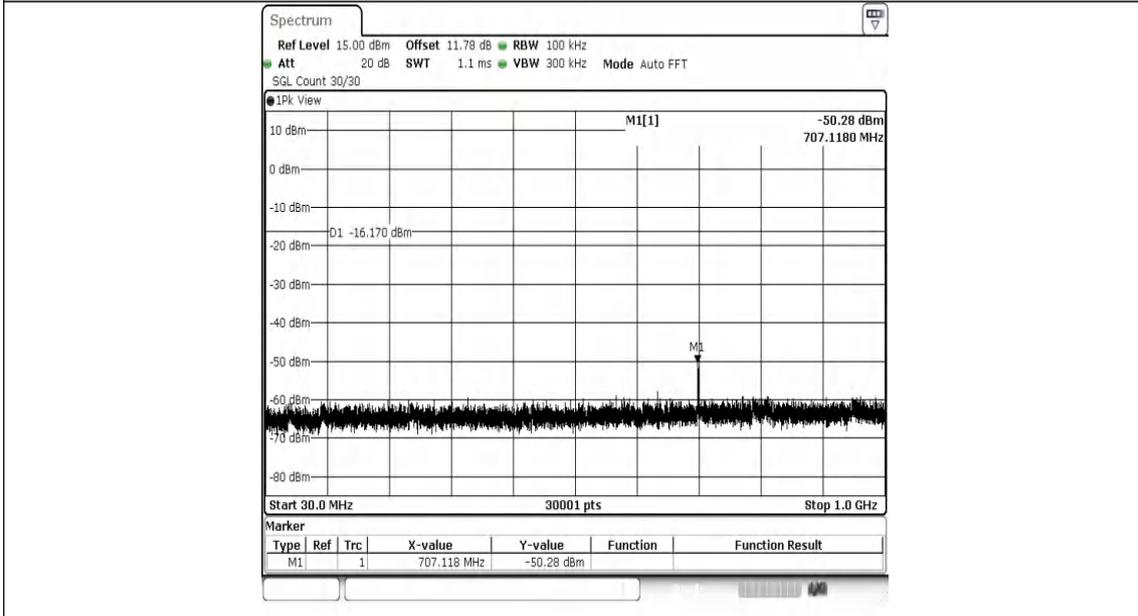
Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	3.83	3.83	---	PASS
DH5	Ant1	2402	30~1000	3.83	-50.28	≤-16.17	PASS
DH5	Ant1	2402	1000~26500	3.83	-42.89	≤-16.17	PASS
DH5	Ant1	2441	0~Reference	4.43	4.43	---	PASS
DH5	Ant1	2441	30~1000	4.43	-57.4	≤-15.57	PASS
DH5	Ant1	2441	1000~26500	4.43	-41.95	≤-15.57	PASS
DH5	Ant1	2480	0~Reference	3.32	3.32	---	PASS
DH5	Ant1	2480	30~1000	3.32	-58.5	≤-16.68	PASS
DH5	Ant1	2480	1000~26500	3.32	-40.26	≤-16.68	PASS
2DH5	Ant1	2402	0~Reference	3.43	3.43	---	PASS
2DH5	Ant1	2402	30~1000	3.43	-57.8	≤-16.57	PASS
2DH5	Ant1	2402	1000~26500	3.43	-43.65	≤-16.57	PASS
2DH5	Ant1	2441	0~Reference	2.00	2.00	---	PASS
2DH5	Ant1	2441	30~1000	2.00	-58.26	≤-18	PASS
2DH5	Ant1	2441	1000~26500	2.00	-43.47	≤-18	PASS
2DH5	Ant1	2480	0~Reference	0.52	0.52	---	PASS
2DH5	Ant1	2480	30~1000	0.52	-58.02	≤-19.48	PASS
2DH5	Ant1	2480	1000~26500	0.52	-42.75	≤-19.48	PASS
3DH5	Ant1	2402	0~Reference	4.35	4.35	---	PASS
3DH5	Ant1	2402	30~1000	4.35	-57.86	≤-15.65	PASS
3DH5	Ant1	2402	1000~26500	4.35	-43.85	≤-15.65	PASS
3DH5	Ant1	2441	0~Reference	0.41	0.41	---	PASS
3DH5	Ant1	2441	30~1000	0.41	-57.64	≤-19.59	PASS
3DH5	Ant1	2441	1000~26500	0.41	-43.05	≤-19.59	PASS
3DH5	Ant1	2480	0~Reference	-0.68	-0.68	---	PASS
3DH5	Ant1	2480	30~1000	-0.68	-57.89	≤-20.68	PASS
3DH5	Ant1	2480	1000~26500	-0.68	-42.42	≤-20.68	PASS



Test Graphs

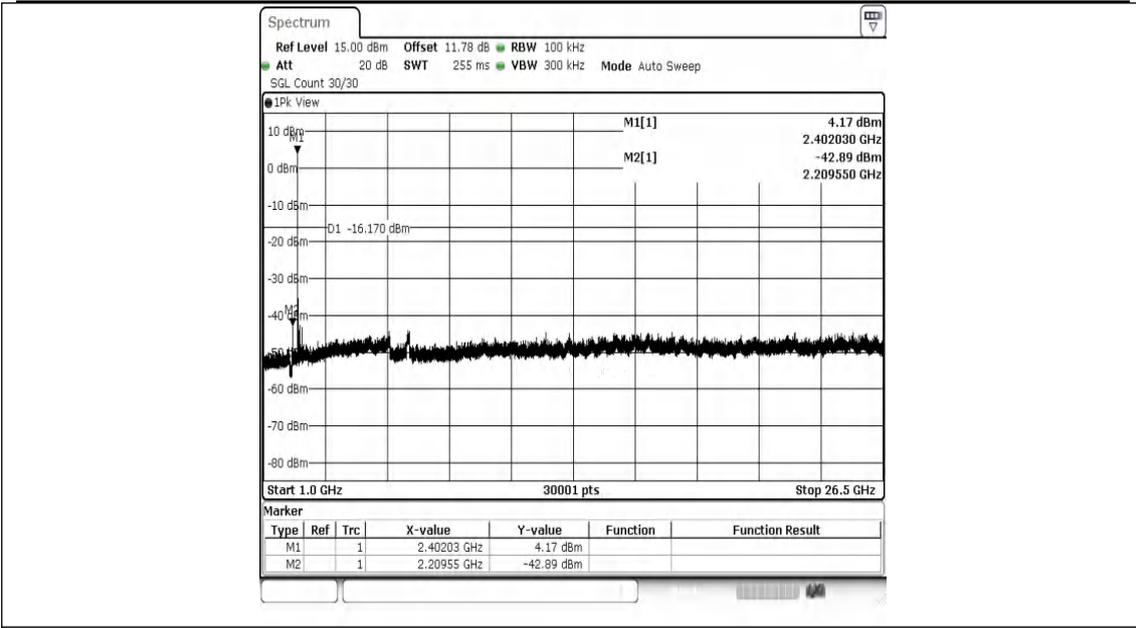


DH5-Ant1-2402-0~Reference-PASS

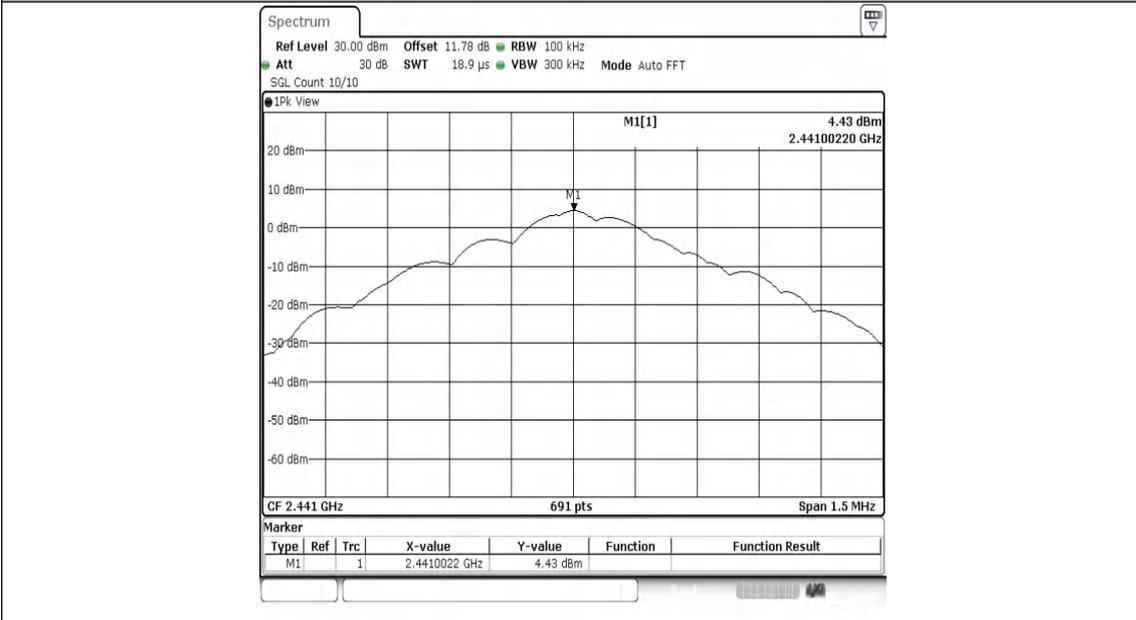


DH5-Ant1-2402-30~1000-PASS



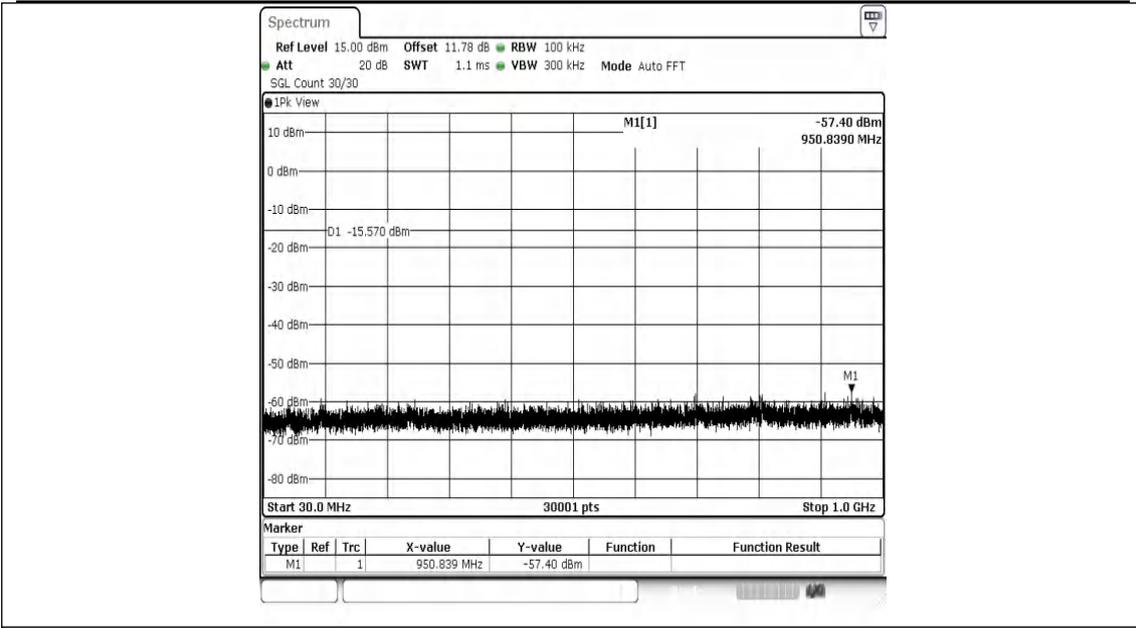


DH5-Ant1-2402-1000~26500-PASS

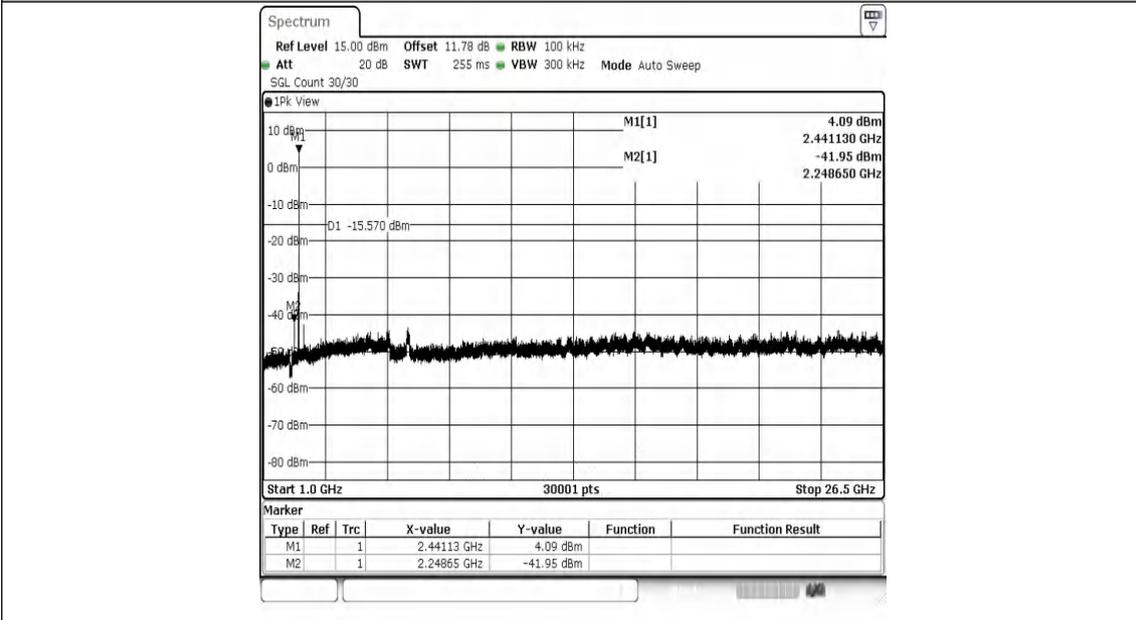


DH5-Ant1-2441-0~Reference-PASS



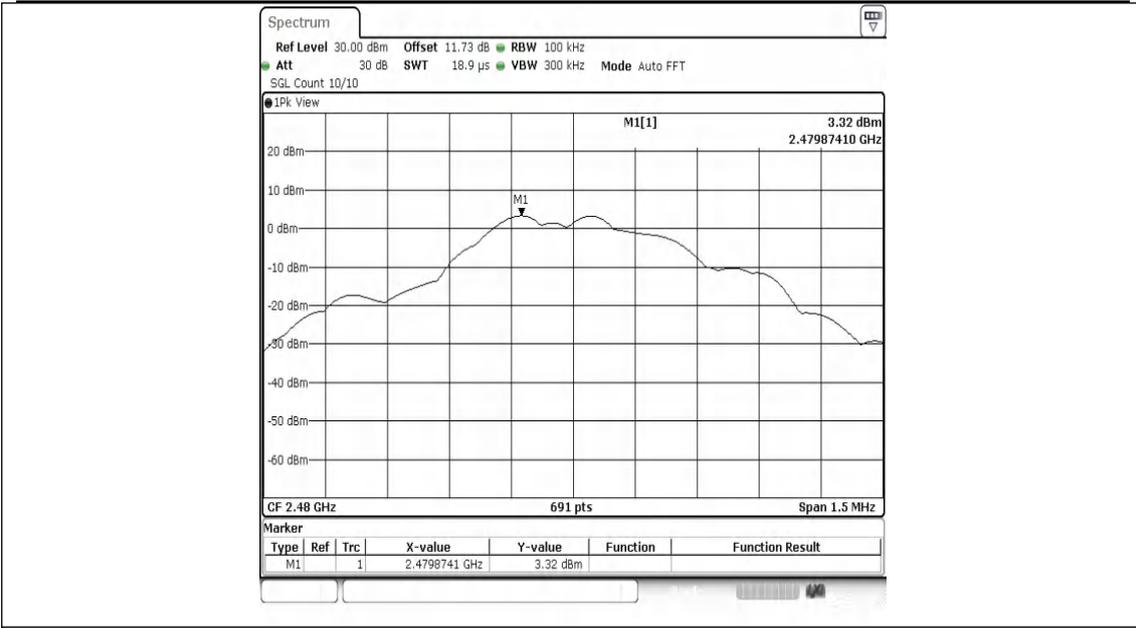


DH5-Ant1-2441-30~1000-PASS

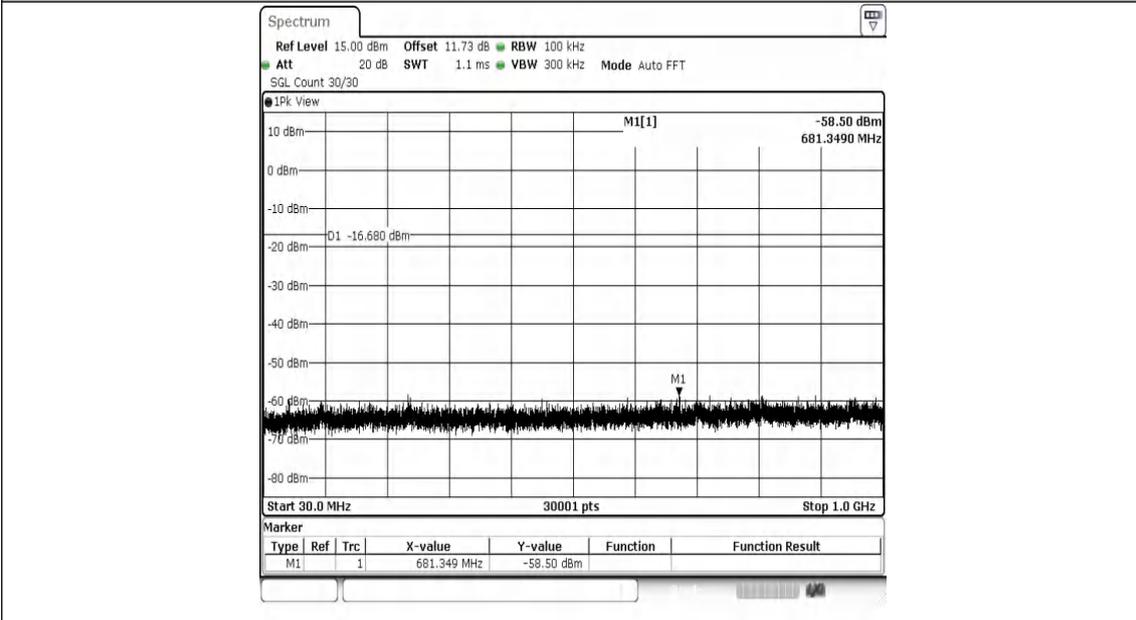


DH5-Ant1-2441-1000~26500-PASS



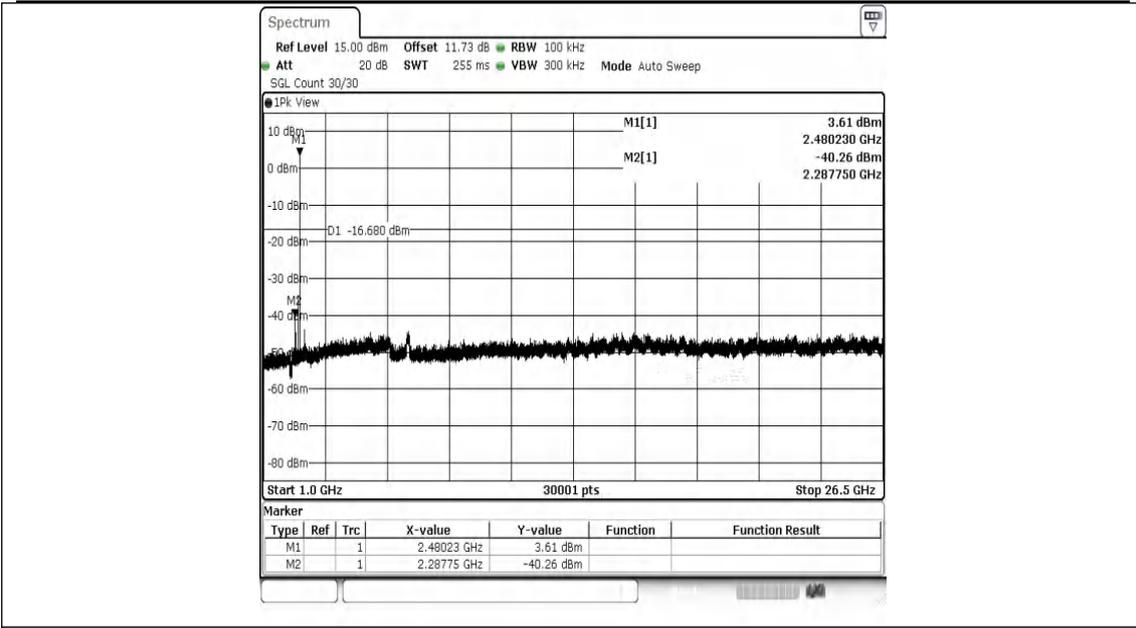


DH5-Ant1-2480-0~Reference-PASS

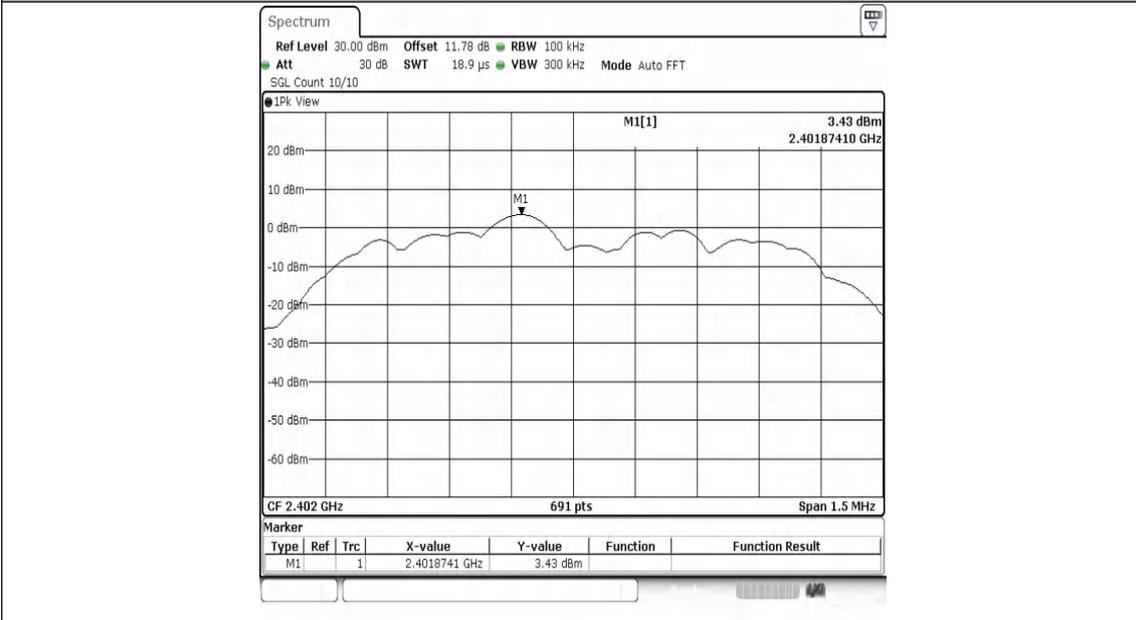


DH5-Ant1-2480-30~1000-PASS



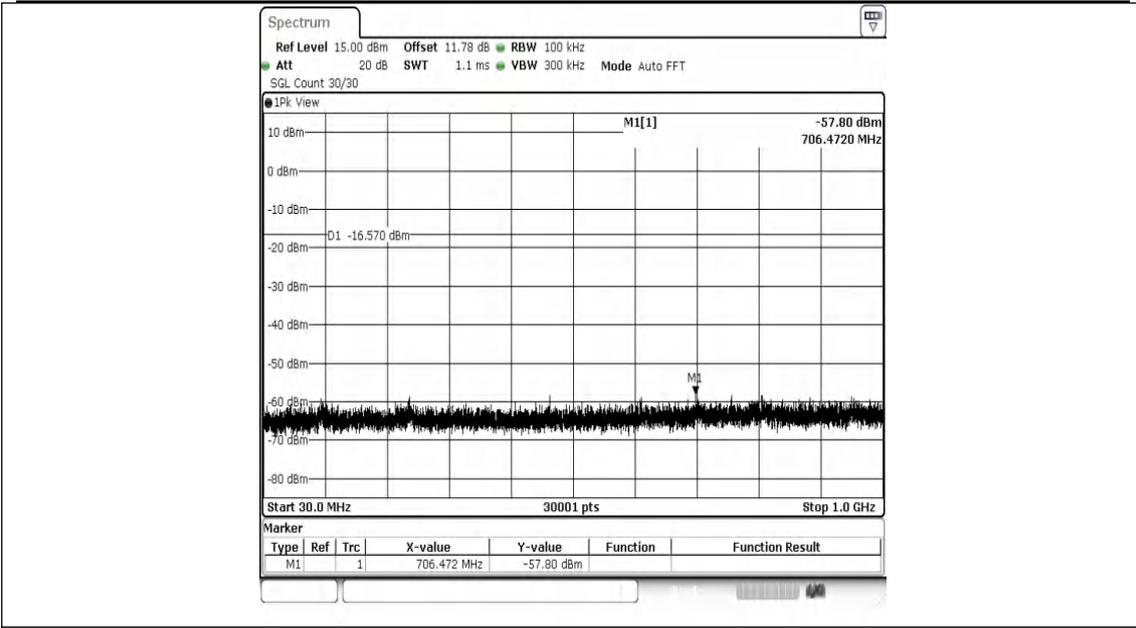


DH5-Ant1-2480-1000~26500-PASS

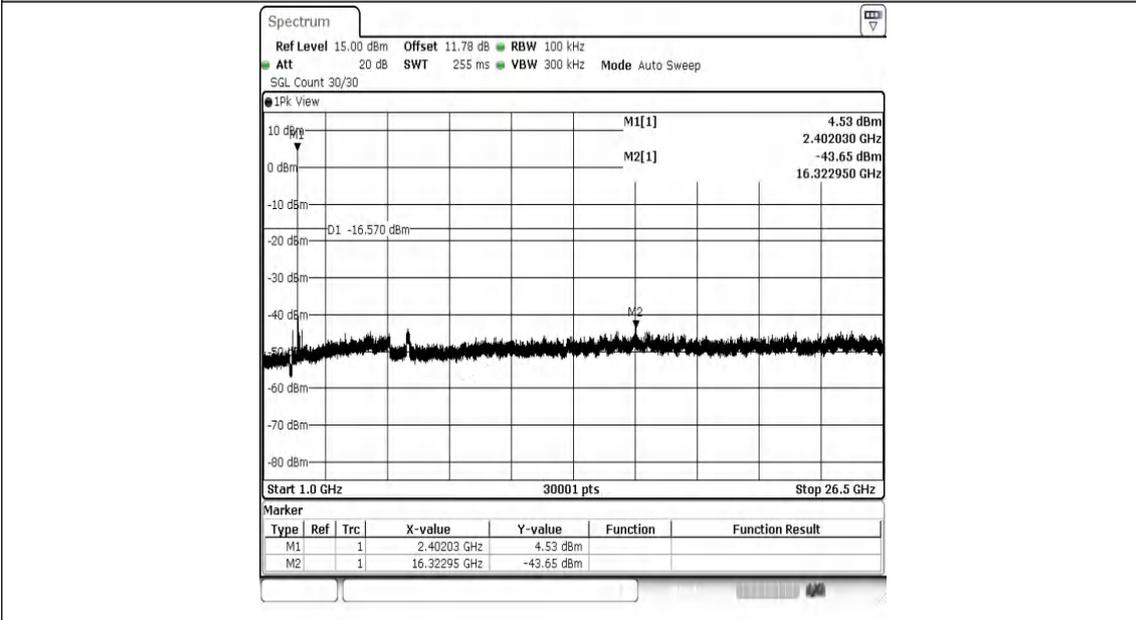


2DH5-Ant1-2402-0~Reference-PASS



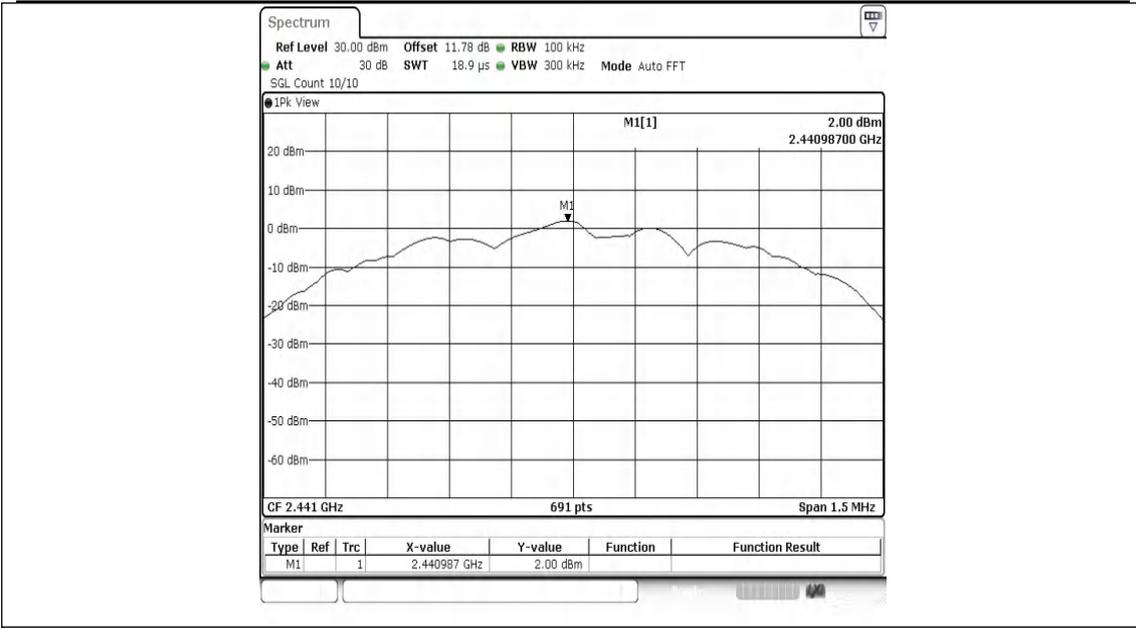


2DH5-Ant1-2402-30~1000-PASS

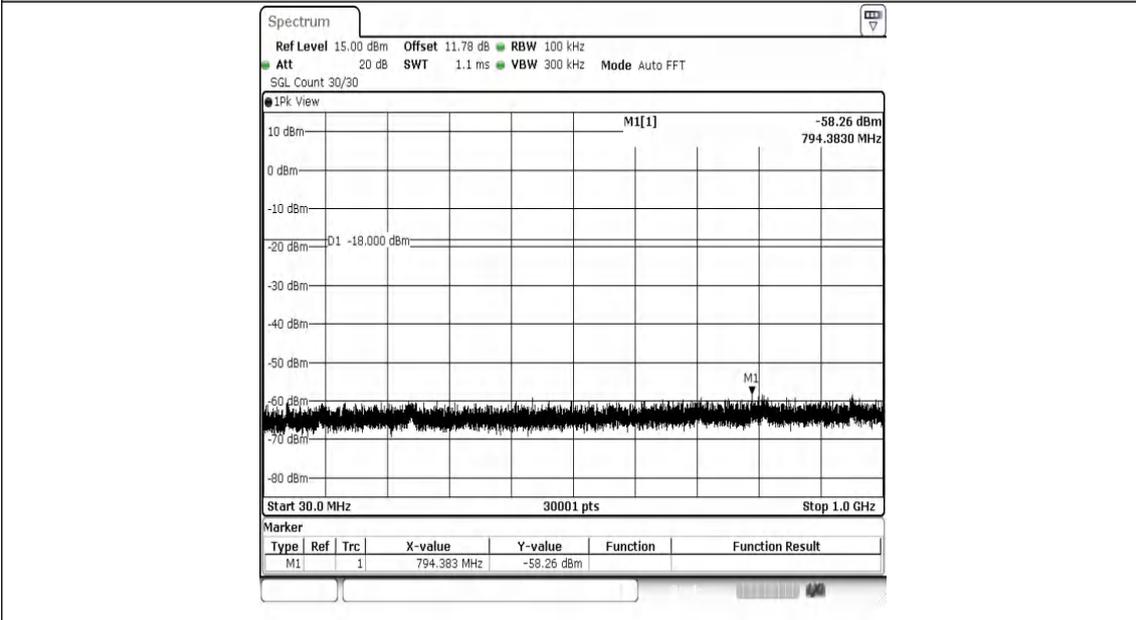


2DH5-Ant1-2402-1000~26500-PASS



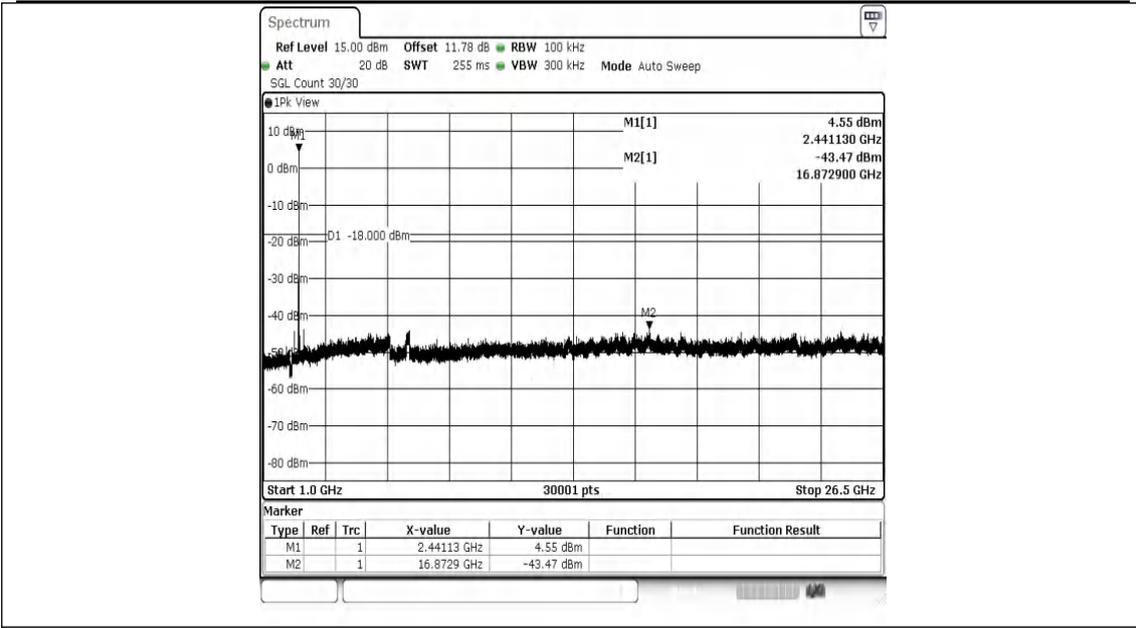


2DH5-Ant1-2441-0~Reference-PASS

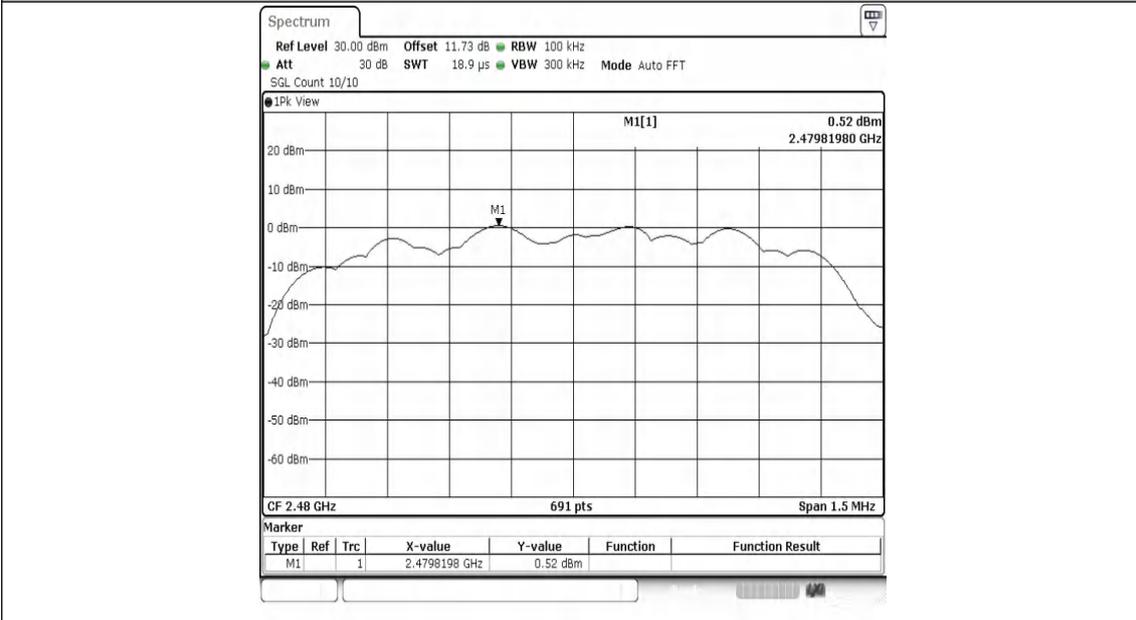


2DH5-Ant1-2441-30~1000-PASS



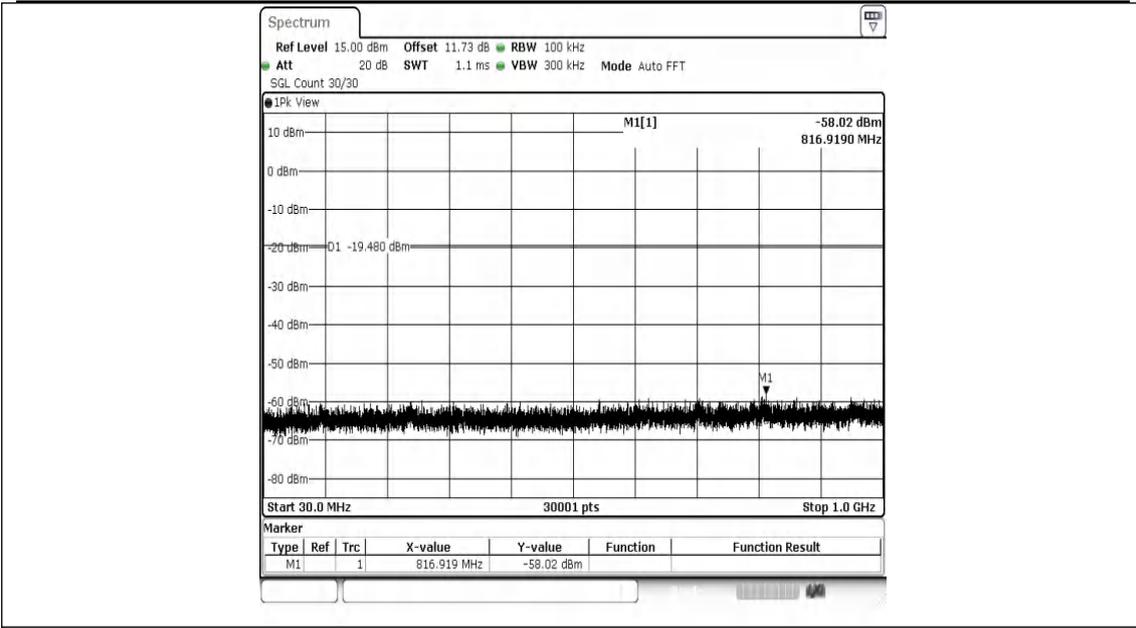


2DH5-Ant1-2441-1000~26500-PASS

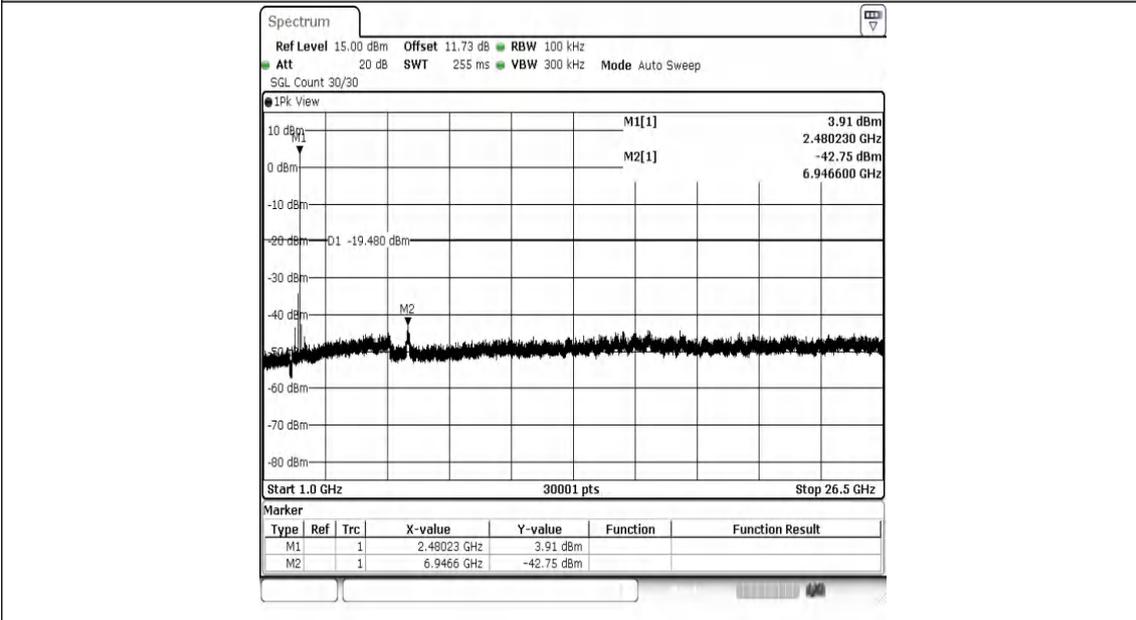


2DH5-Ant1-2480-0~Reference-PASS



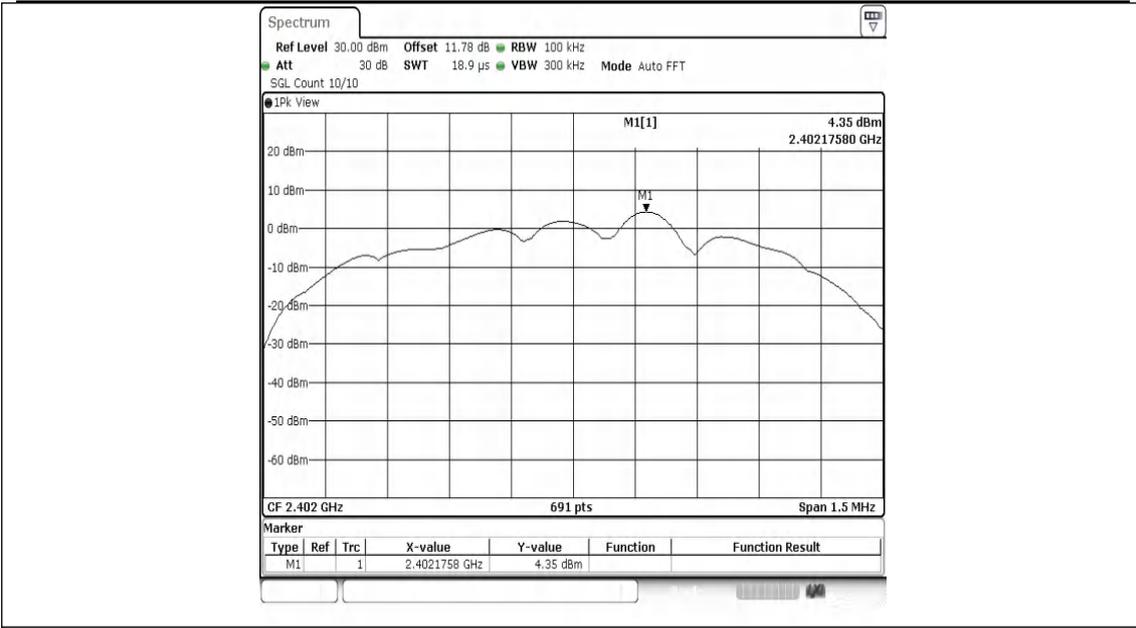


2DH5-Ant1-2480-30~1000-PASS

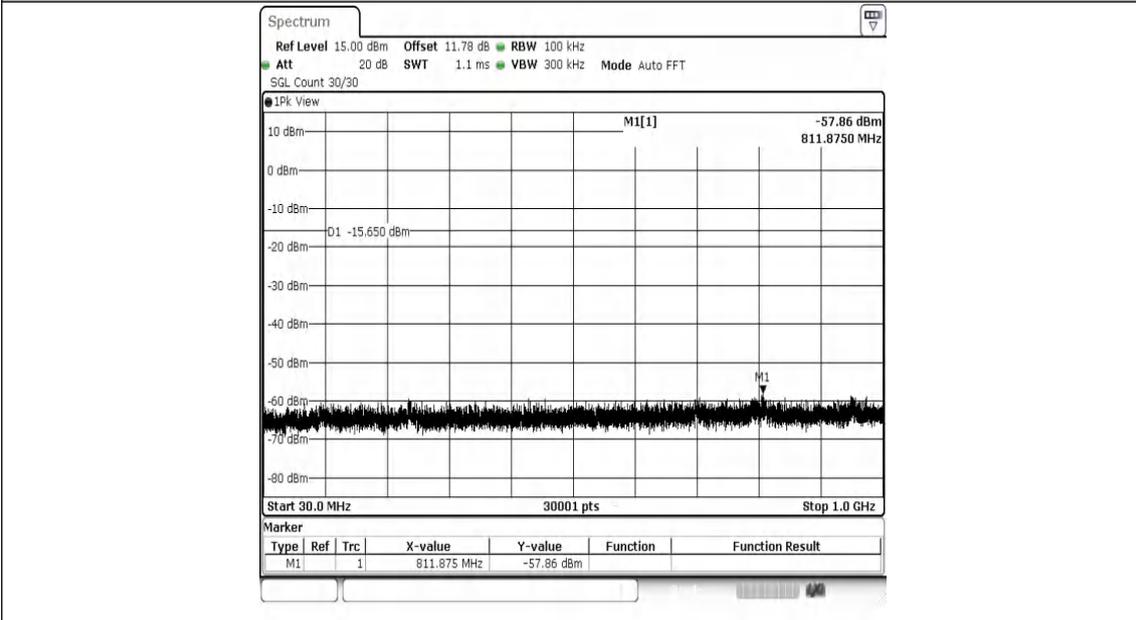


2DH5-Ant1-2480-1000~26500-PASS



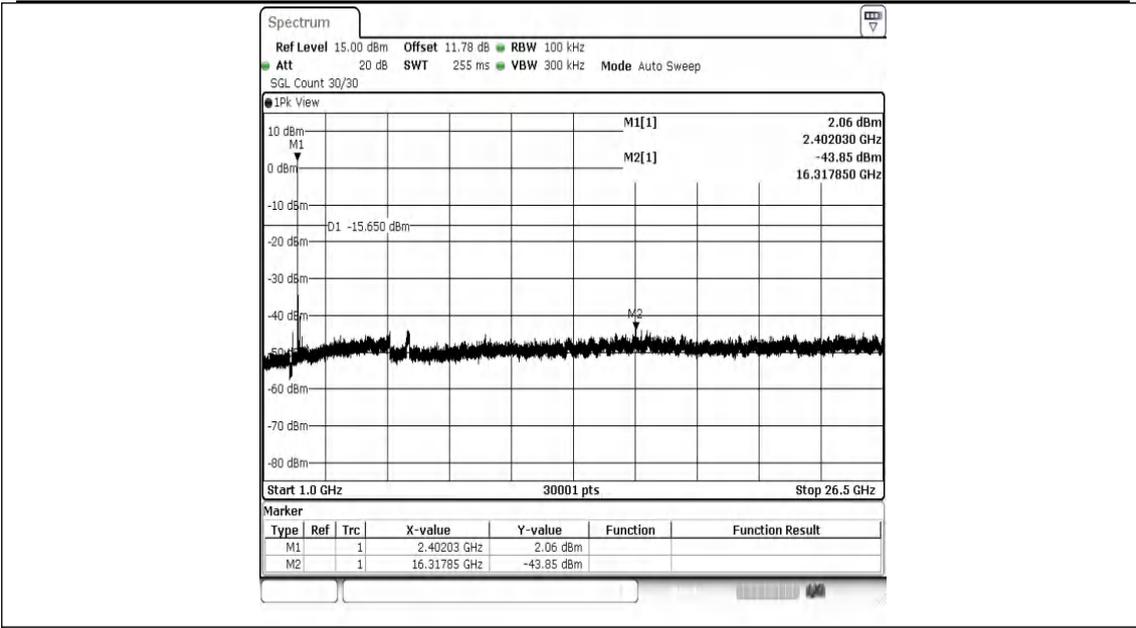


3DH5-Ant1-2402-0~Reference-PASS

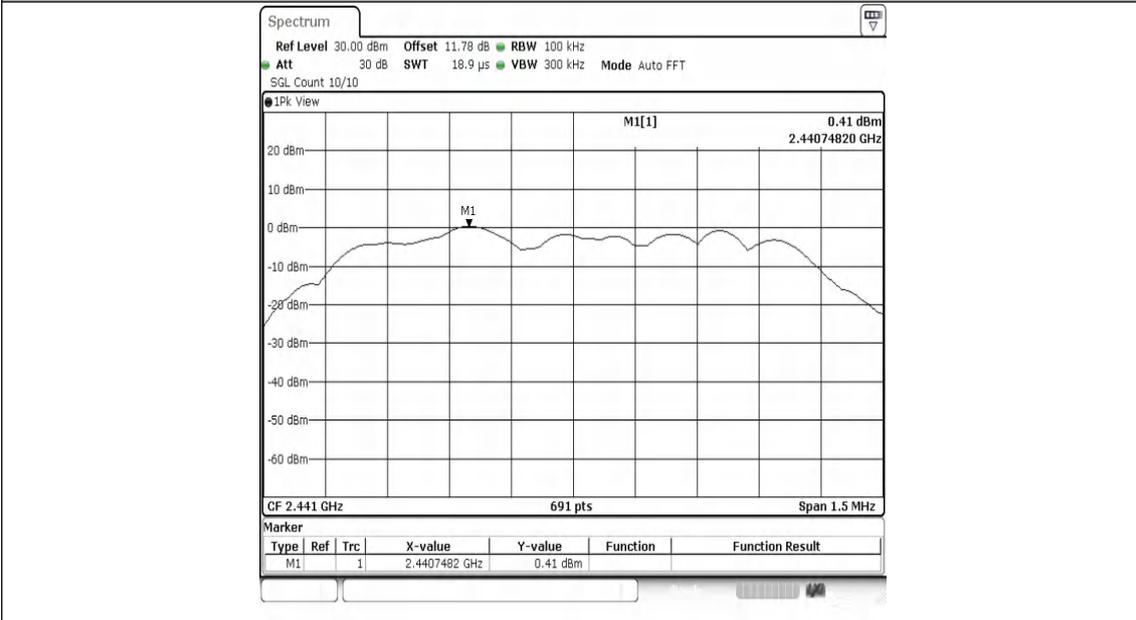


3DH5-Ant1-2402-30~1000-PASS



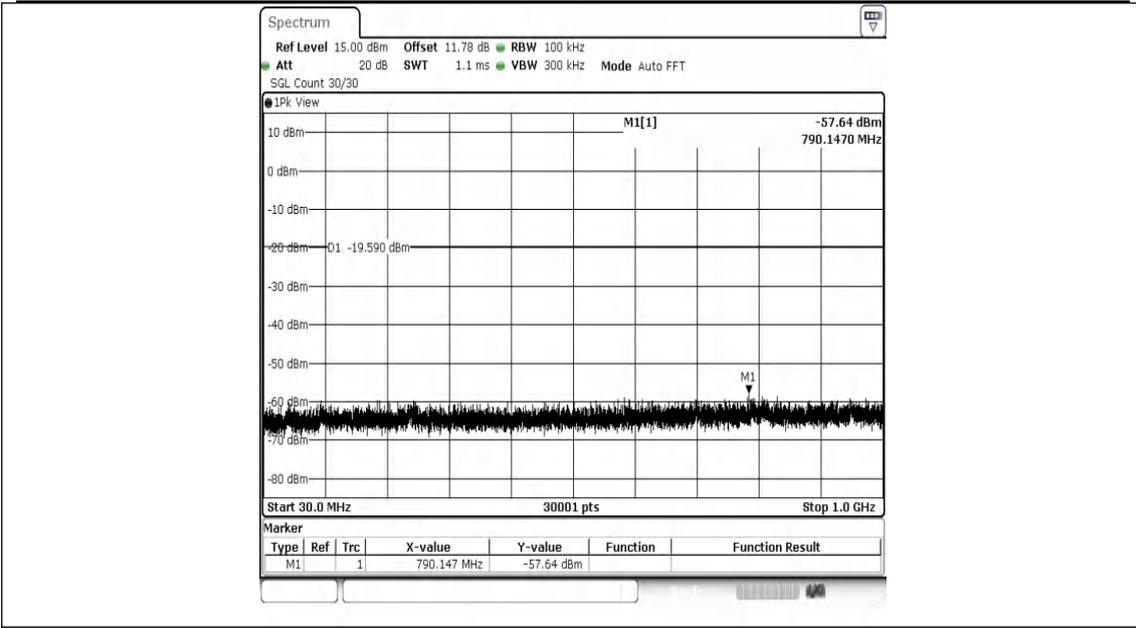


3DH5-Ant1-2402-1000~26500-PASS

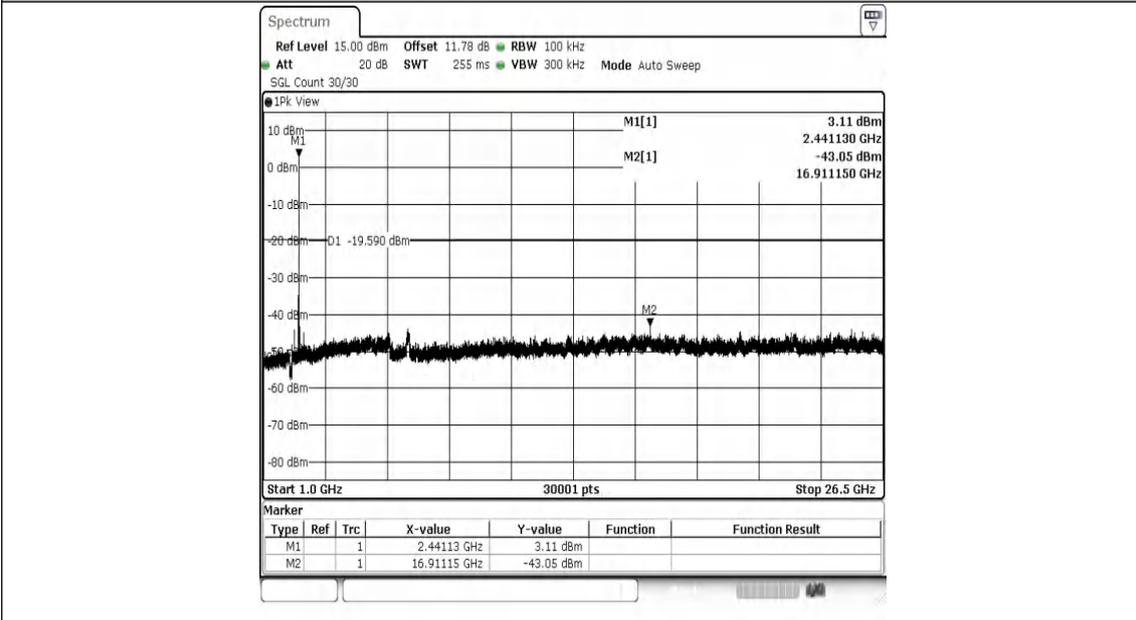


3DH5-Ant1-2441-0~Reference-PASS



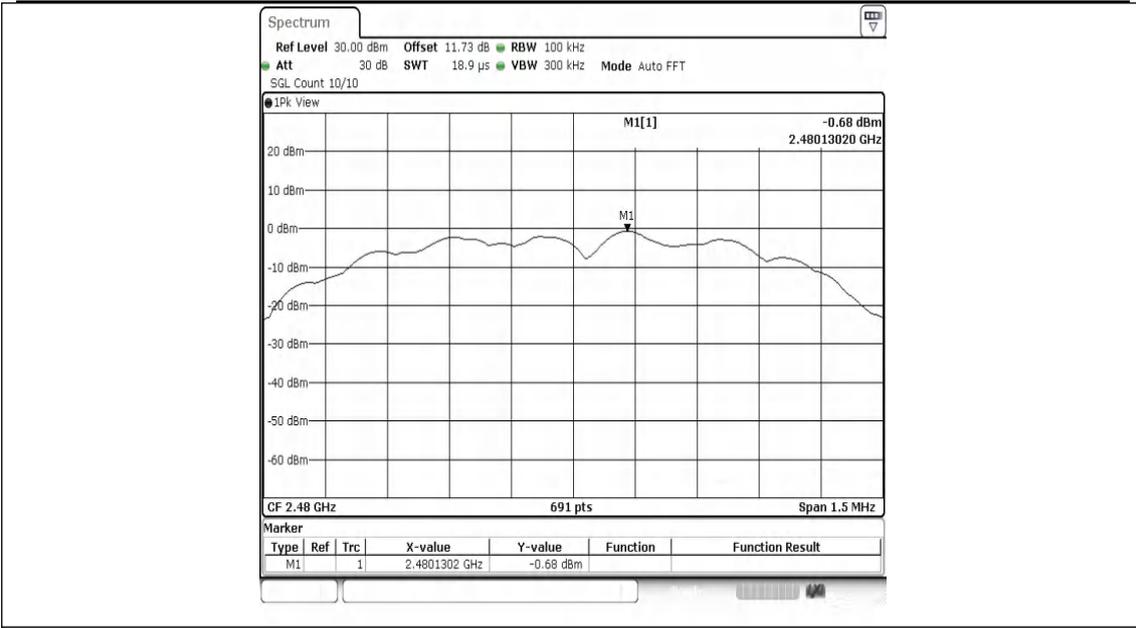


3DH5-Ant1-2441-30~1000-PASS

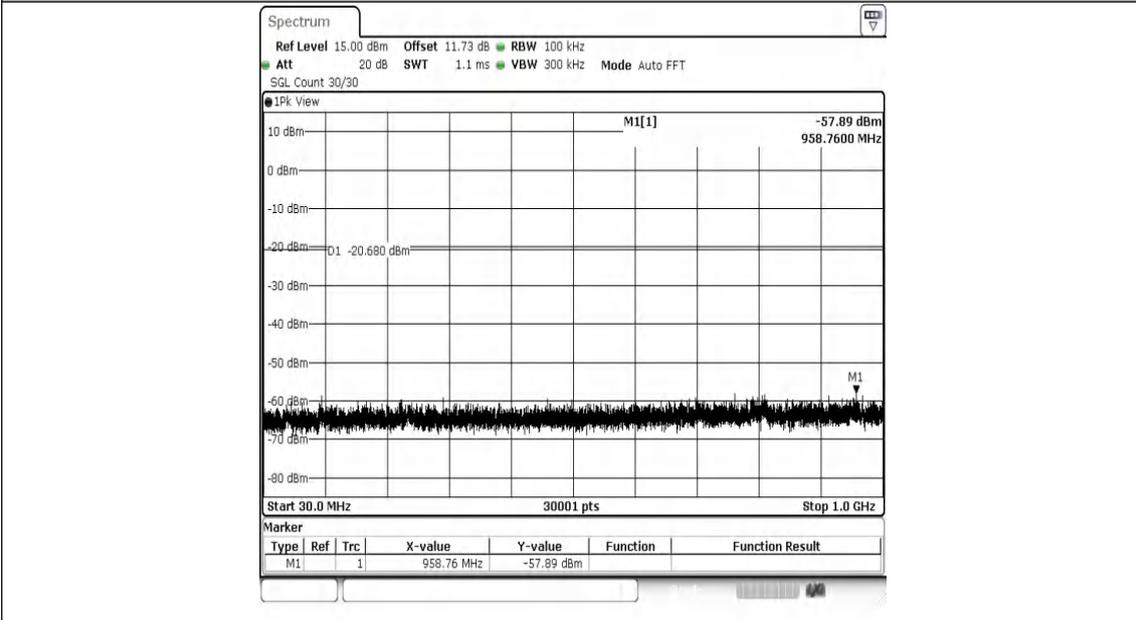


3DH5-Ant1-2441-1000~26500-PASS



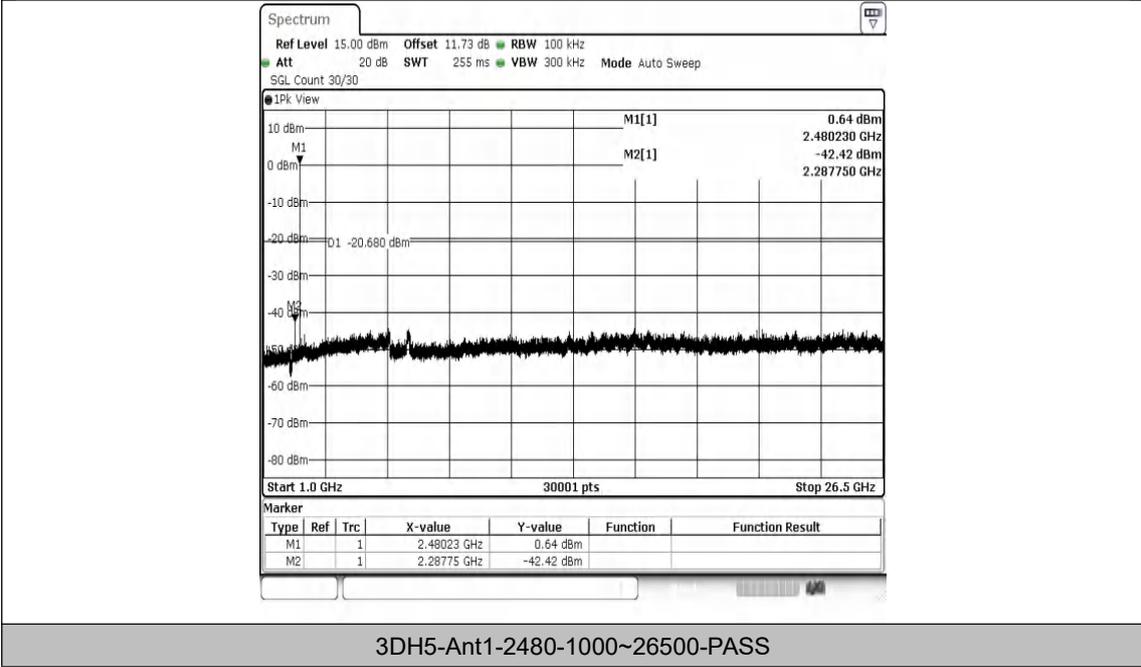


3DH5-Ant1-2480-0~Reference-PASS



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





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www.anbotek.com



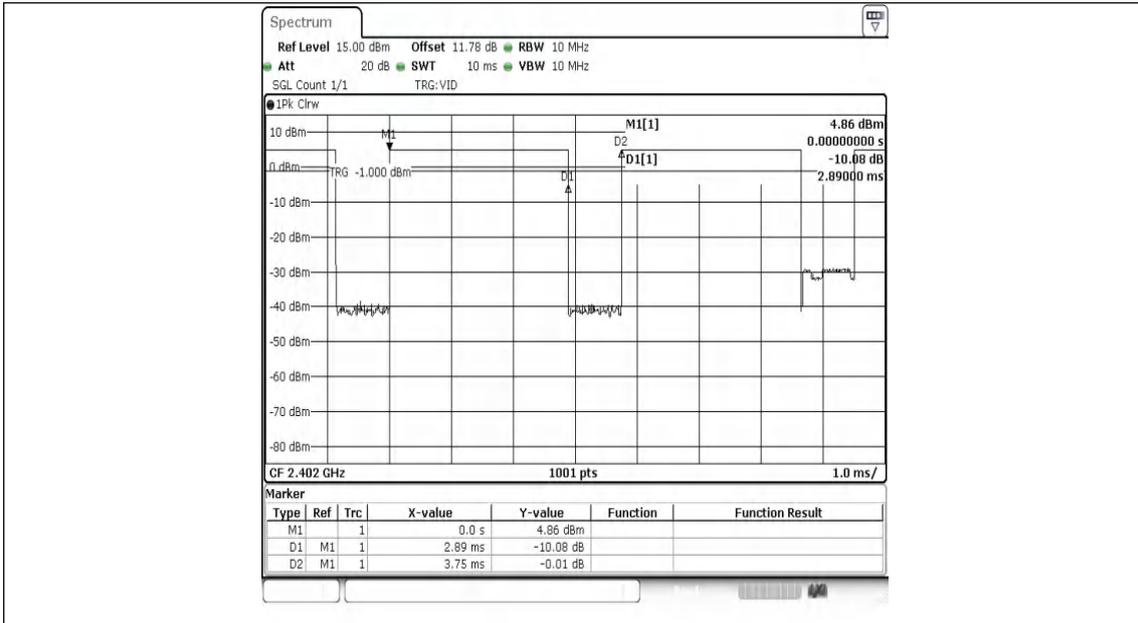
Appendix I: Duty Cycle

Test Result

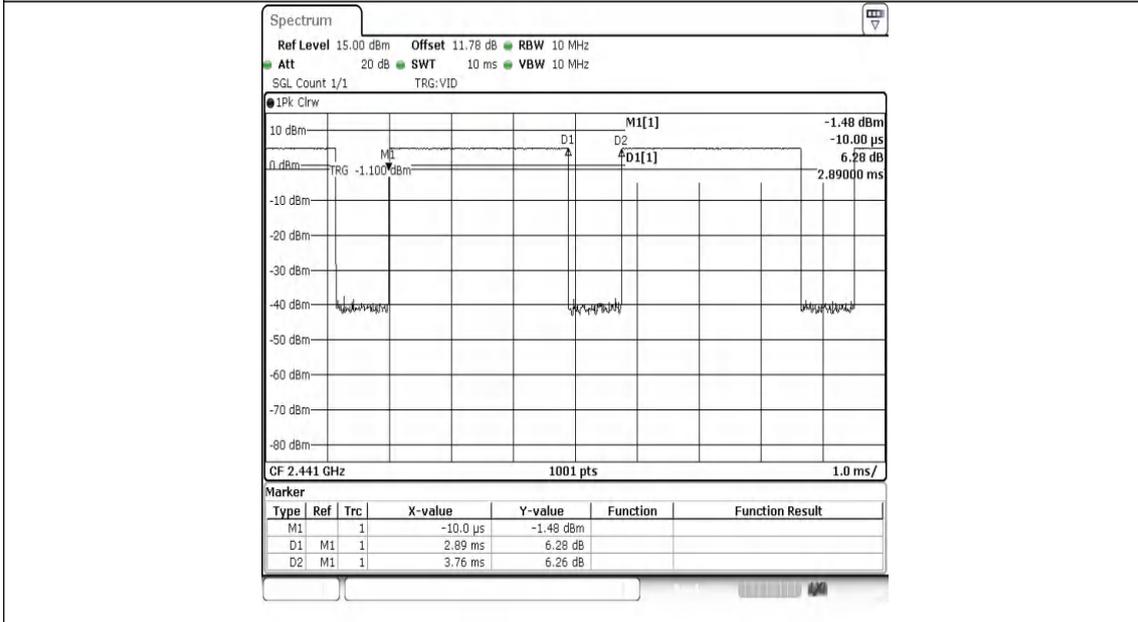
Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
DH5	Ant1	2441	2.89	3.76	76.86	1.14
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.90	3.75	77.33	1.12
2DH5	Ant1	2441	2.90	3.76	77.13	1.13
2DH5	Ant1	2480	2.90	3.75	77.33	1.12
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
3DH5	Ant1	2441	2.90	3.76	77.13	1.13
3DH5	Ant1	2480	2.89	3.75	77.07	1.13



Test Graphs

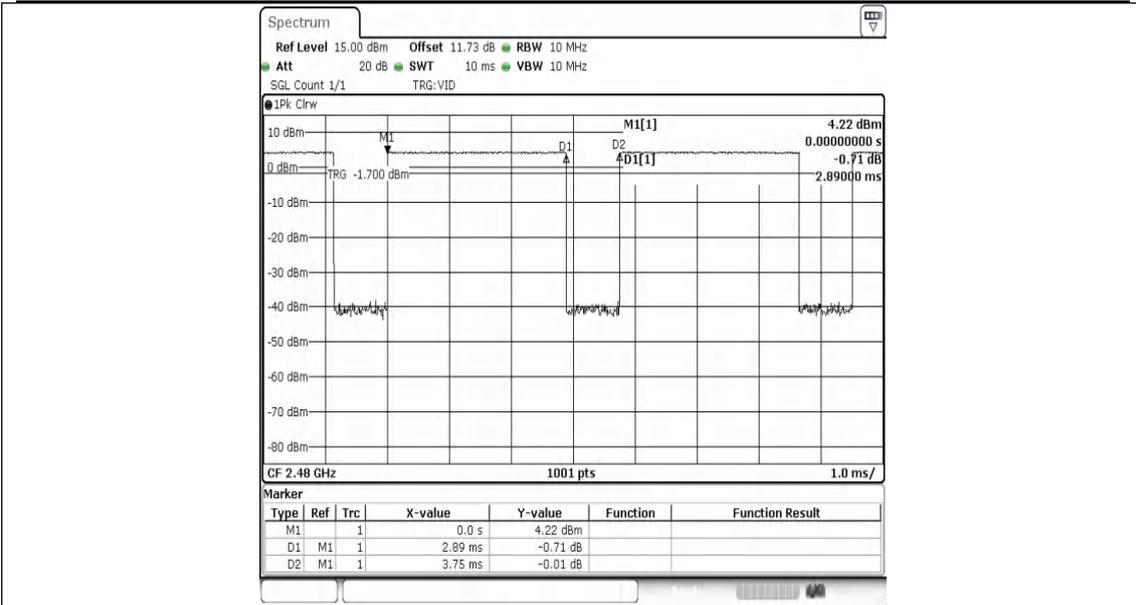


NTNV-DH5-Ant1-2402

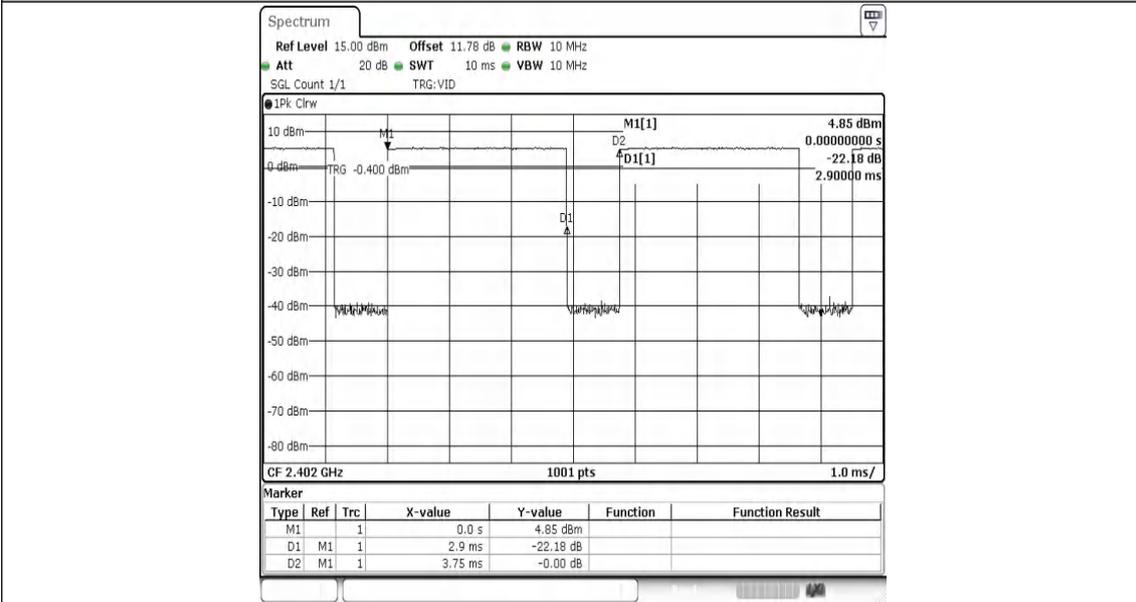


NTNV-DH5-Ant1-2441



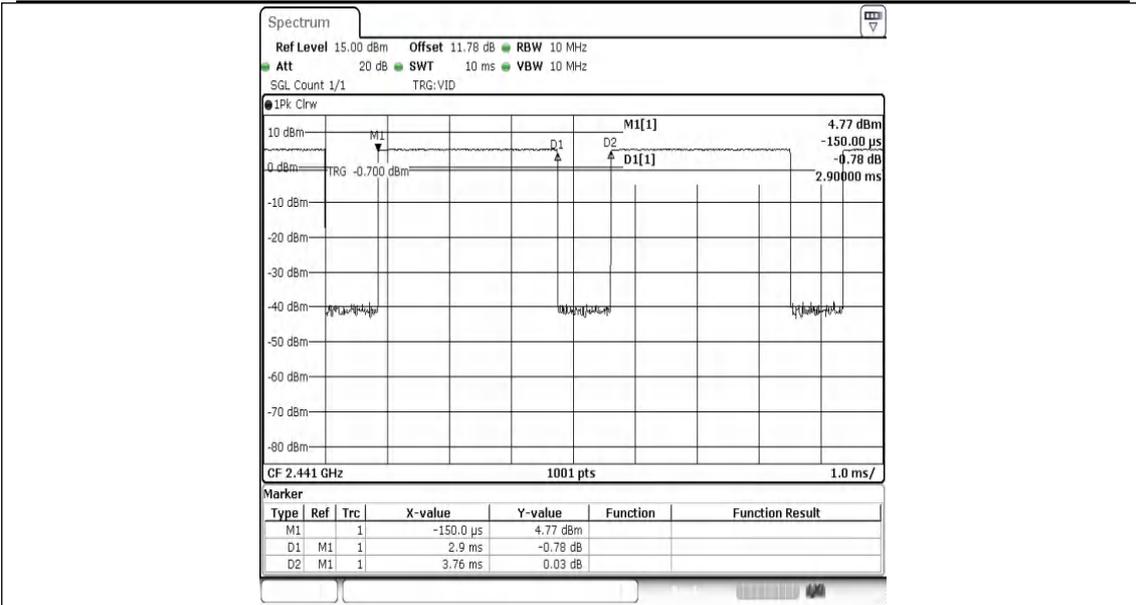


NTNV-DH5-Ant1-2480

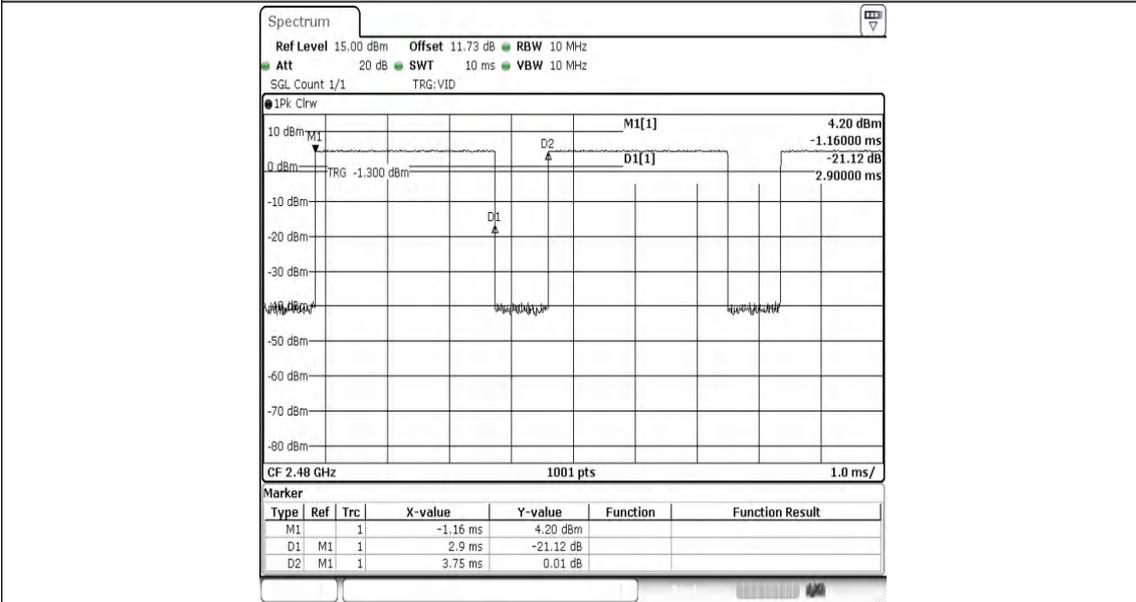


NTNV-2DH5-Ant1-2402



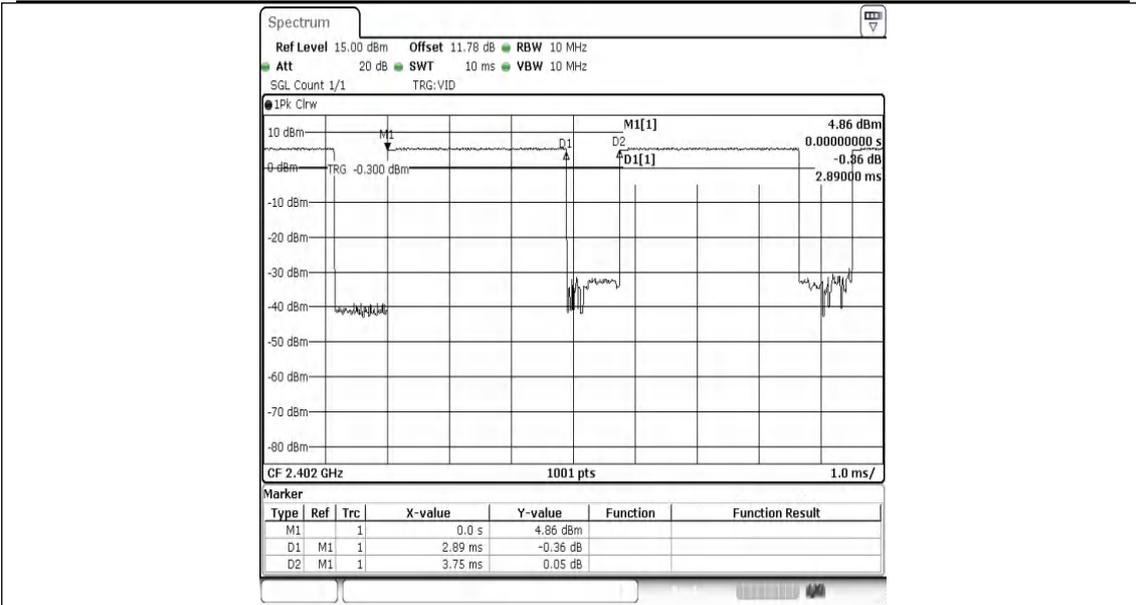


NTNV-2DH5-Ant1-2441

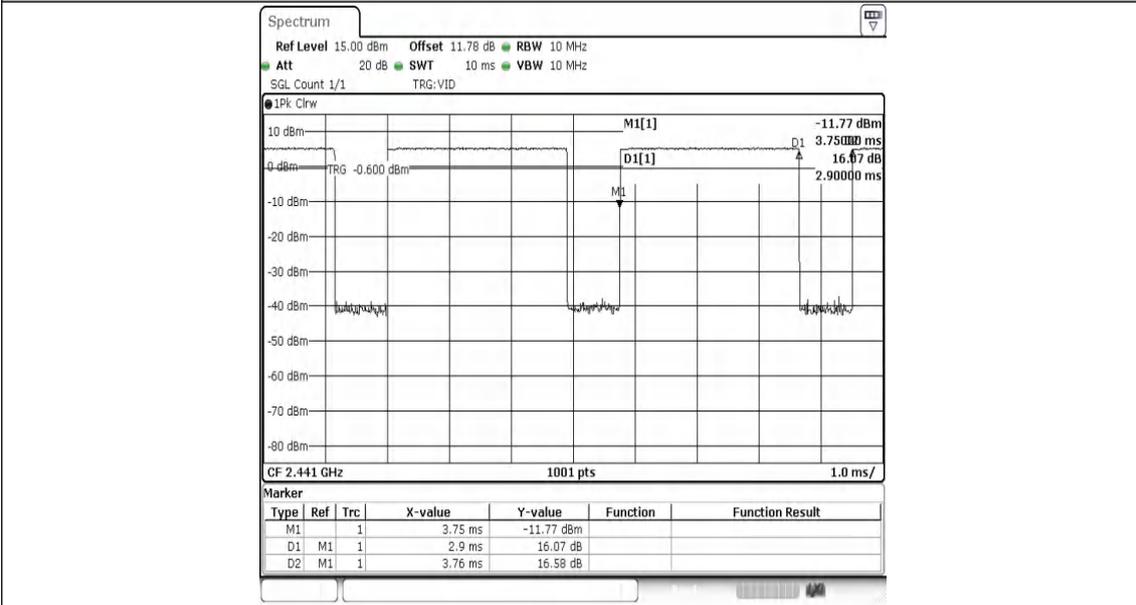


NTNV-2DH5-Ant1-2480



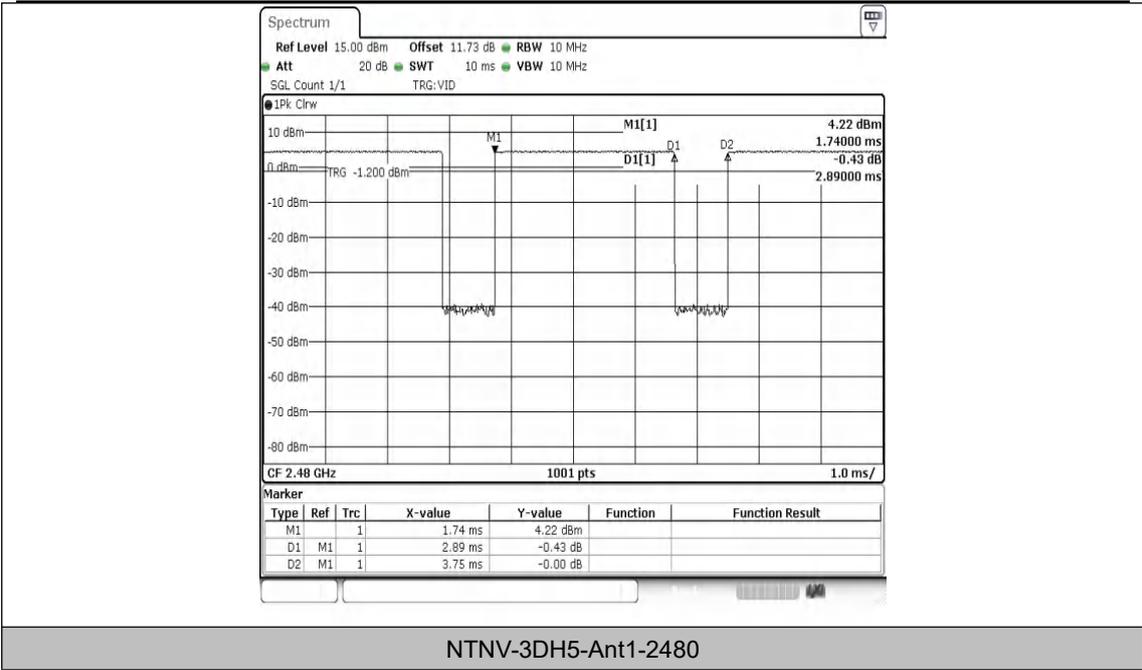


NTVN-3DH5-Ant1-2402



NTVN-3DH5-Ant1-2441





---End---

