



CQASZ20260701654E-01

Summary

NO.	Item	Verdict
1	20dB Emission Bandwidth	Pass
2	Occupied Channel Bandwidth	Pass
3	Maximum conducted output power	Pass
4	Carrier frequency separation	Pass
5	Time of occupancy	Pass
6	Number of hopping channels	Pass
7	Band edge measurements	Pass
8	Conducted Spurious Emission	Pass
9	Emissions in Restricted Bands	Pass
10	Duty Cycle	Pass

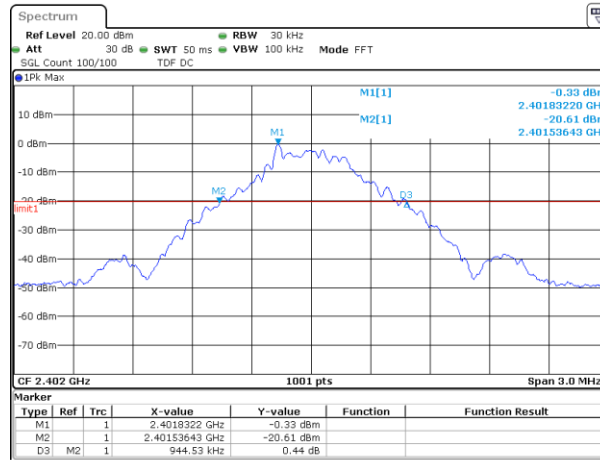
Appendix A: 20dB Emission Bandwidth

Test Result

NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	BW (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
1	NTNV	DH5	2402	1Mbps	ANT1	0.94	2401.54	2402.48	-	-
2	NTNV	DH5	2441	1Mbps	ANT1	0.94	2440.54	2441.48	-	-
3	NTNV	DH5	2480	1Mbps	ANT1	0.94	2479.54	2480.48	-	-
4	NTNV	2DH5	2402	2Mbps	ANT1	1.26	2401.37	2402.64	-	-
5	NTNV	2DH5	2441	2Mbps	ANT1	1.27	2440.37	2441.64	-	-
6	NTNV	2DH5	2480	2Mbps	ANT1	1.24	2479.38	2480.61	-	-
7	NTNV	3DH5	2402	3Mbps	ANT1	1.20	2401.41	2402.61	-	-
8	NTNV	3DH5	2441	3Mbps	ANT1	1.20	2440.41	2441.61	-	-
9	NTNV	3DH5	2480	3Mbps	ANT1	1.20	2479.41	2480.61	-	-

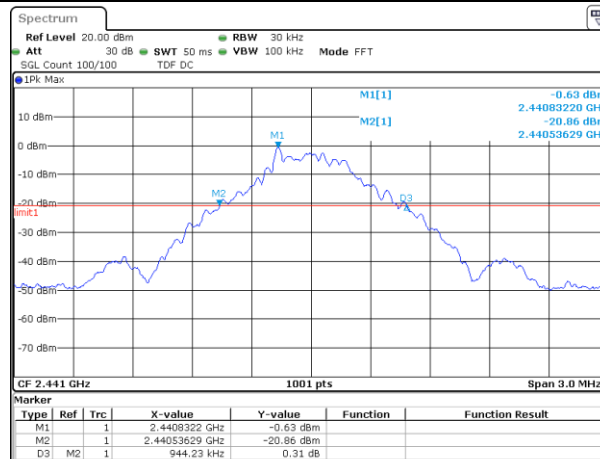
Test Graphs

NTNV_DH5_2402_1Mbps



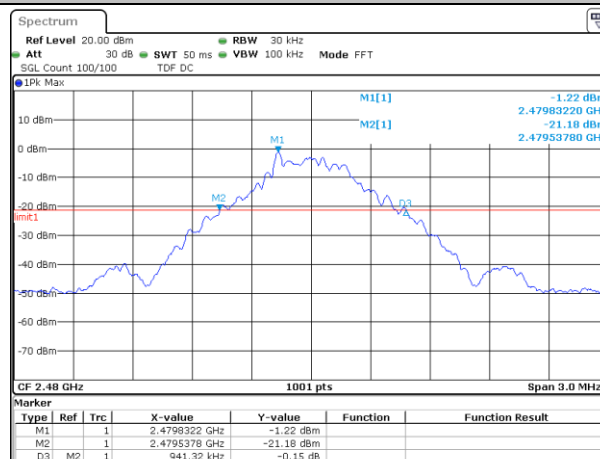
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NTNV_DH5_2441_1Mbps



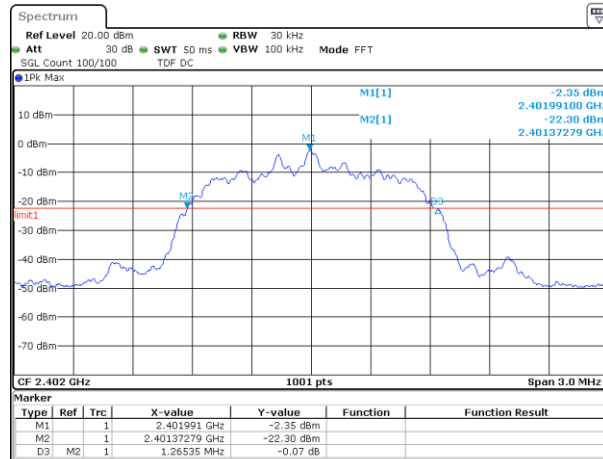
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NTNV_DH5_2480_1Mbps



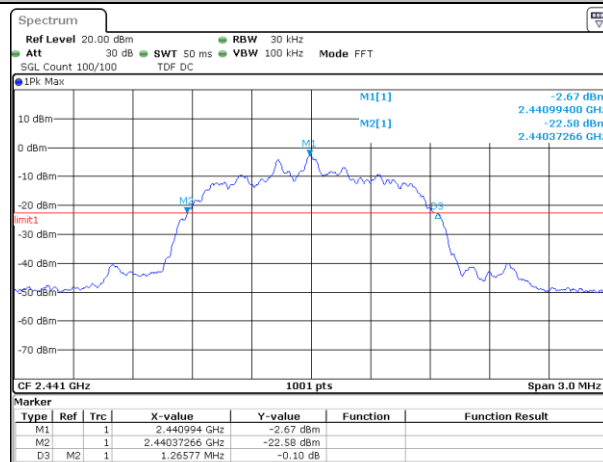
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NTNV_2DH5_2402_2Mbps



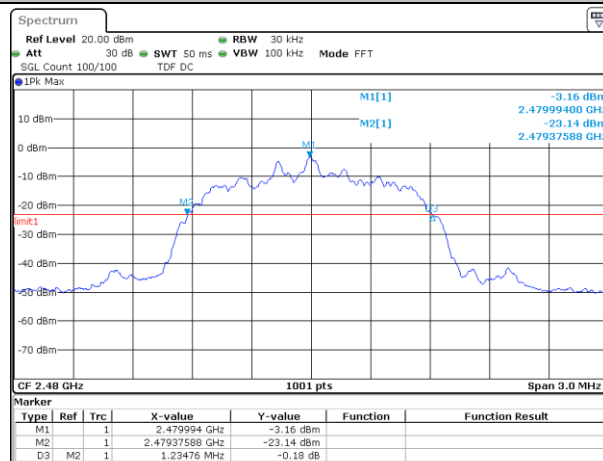
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NTNV_2DH5_2441_2Mbps



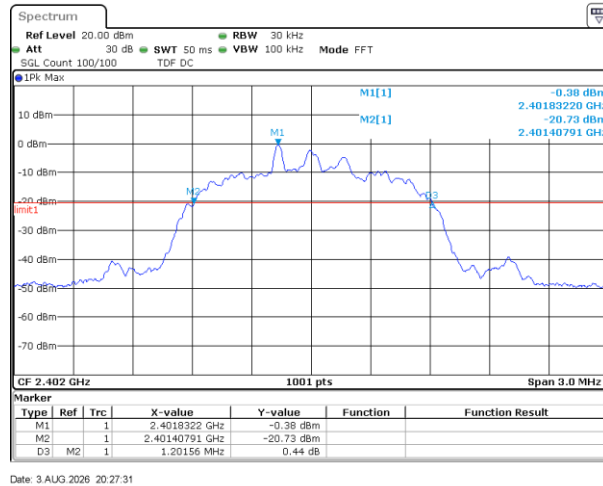
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NTNV_2DH5_2480_2Mbps

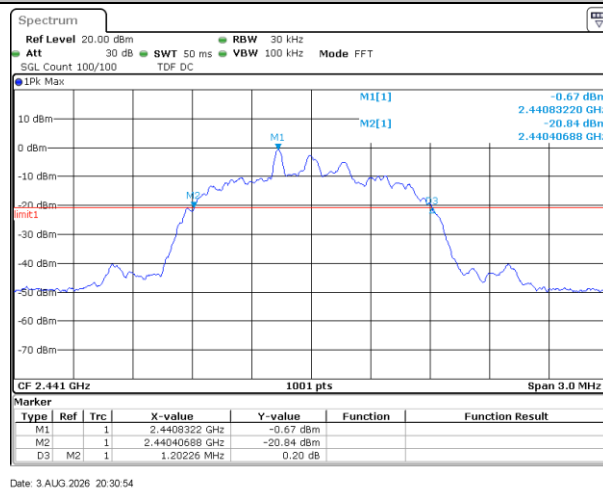


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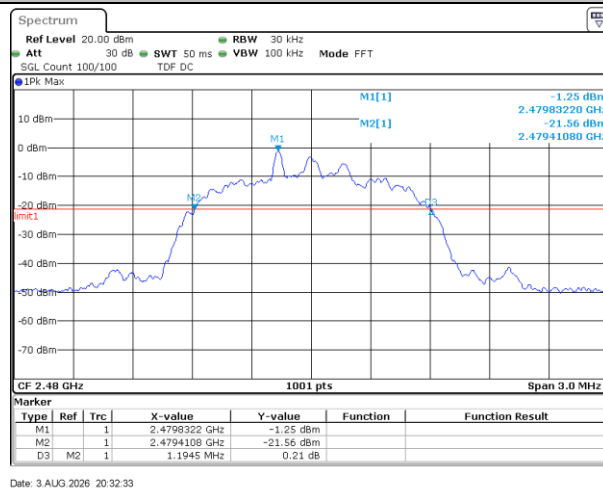
NTNV_3DH5_2402_3Mbps



NTNV_3DH5_2441_3Mbps



NTNV_3DH5_2480_3Mbps



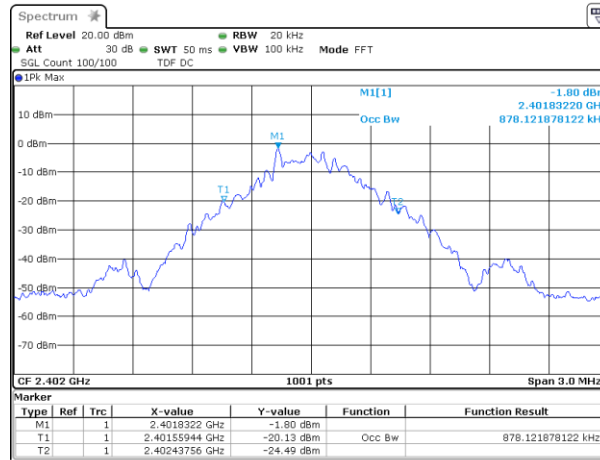
Appendix B: Occupied Channel Bandwidth

Test Result

NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	99% OBW (MHz)	Limit (MHz)	FL (MHz)	FH (MHz)	Verdict
1	NTNV	DH5	2402	1Mbps	ANT1	0.88	-	2401.56	2402.44	Pass
2	NTNV	DH5	2441	1Mbps	ANT1	0.88	-	2440.56	2441.43	Pass
3	NTNV	DH5	2480	1Mbps	ANT1	0.86	-	2479.57	2480.43	Pass
4	NTNV	2DH5	2402	2Mbps	ANT1	1.15	-	2401.42	2402.57	Pass
5	NTNV	2DH5	2441	2Mbps	ANT1	1.15	-	2440.42	2441.57	Pass
6	NTNV	2DH5	2480	2Mbps	ANT1	1.14	-	2479.42	2480.57	Pass
7	NTNV	3DH5	2402	3Mbps	ANT1	1.14	-	2401.43	2402.57	Pass
8	NTNV	3DH5	2441	3Mbps	ANT1	1.14	-	2440.43	2441.57	Pass
9	NTNV	3DH5	2480	3Mbps	ANT1	1.13	-	2479.44	2480.57	Pass

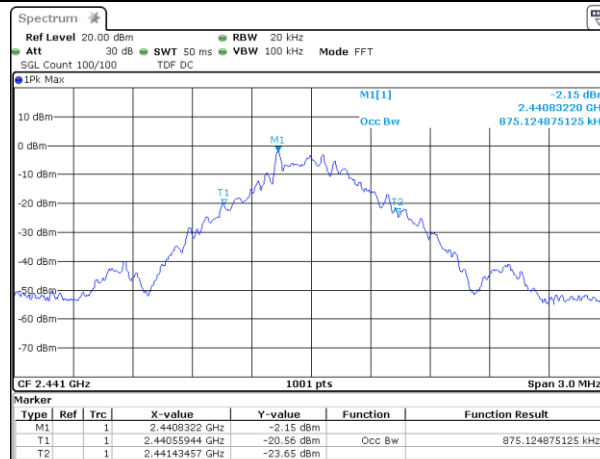
Test Graphs

NTNV_DH5_2402_1Mbps



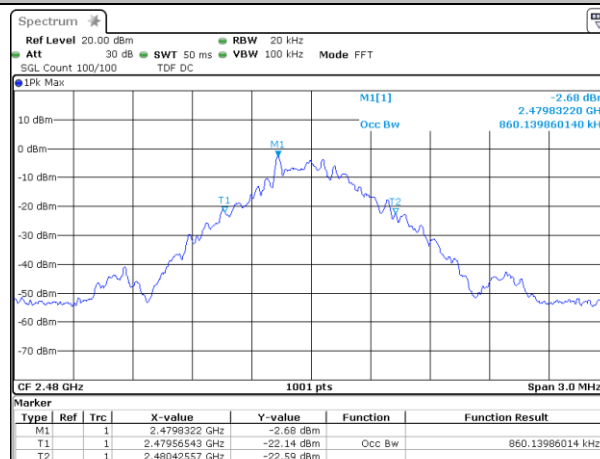
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NTNV_DH5_2441_1Mbps



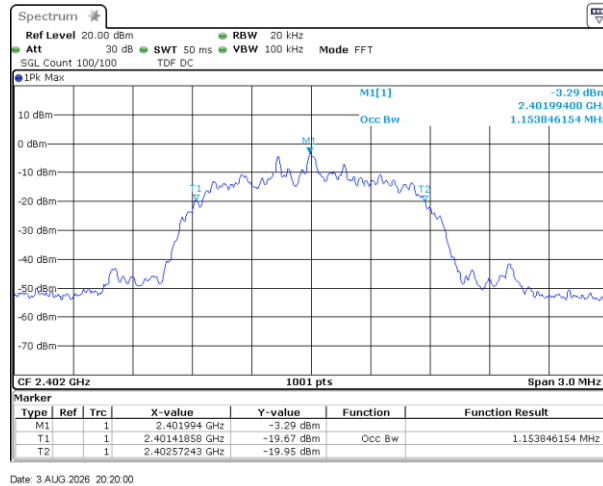
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NTNV_DH5_2480_1Mbps

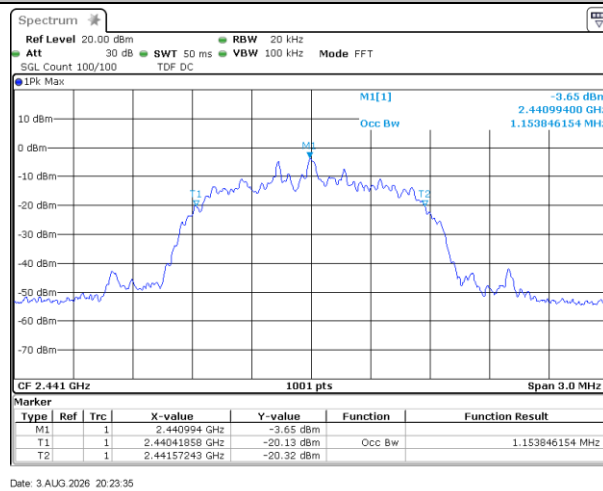


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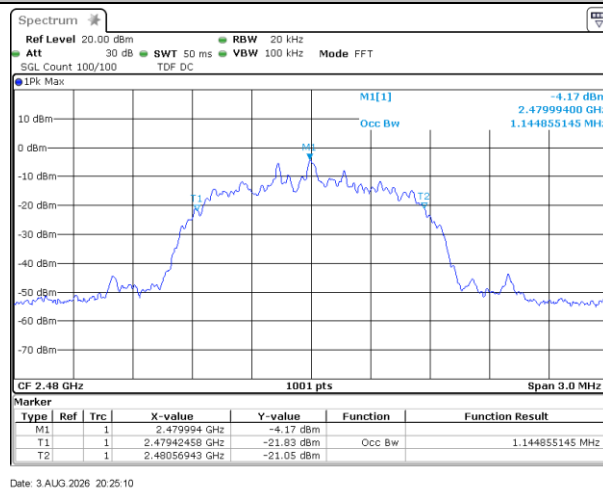
NTNV_2DH5_2402_2Mbps



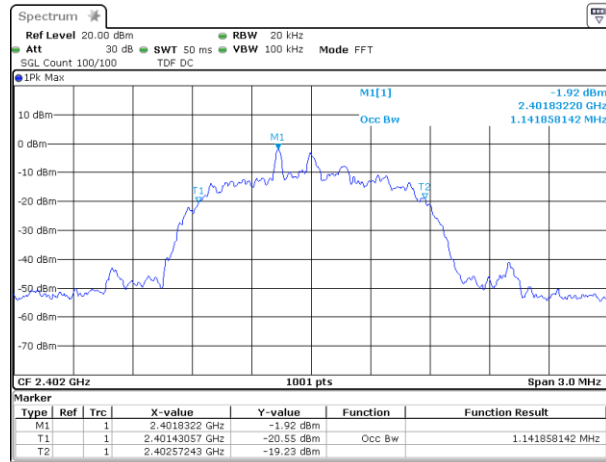
NTNV_2DH5_2441_2Mbps



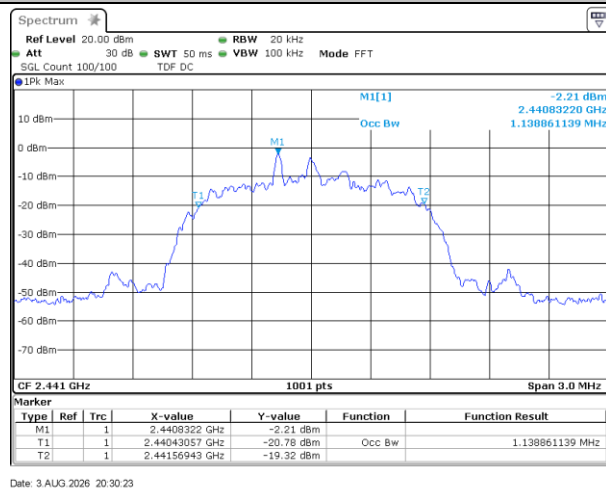
NTNV_2DH5_2480_2Mbps



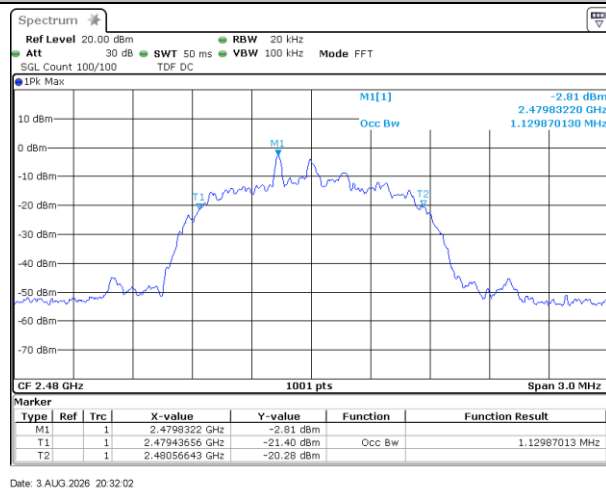
NTNV_3DH5_2402_3Mbps



NTNV_3DH5_2441_3Mbps



NTNV_3DH5_2480_3Mbps

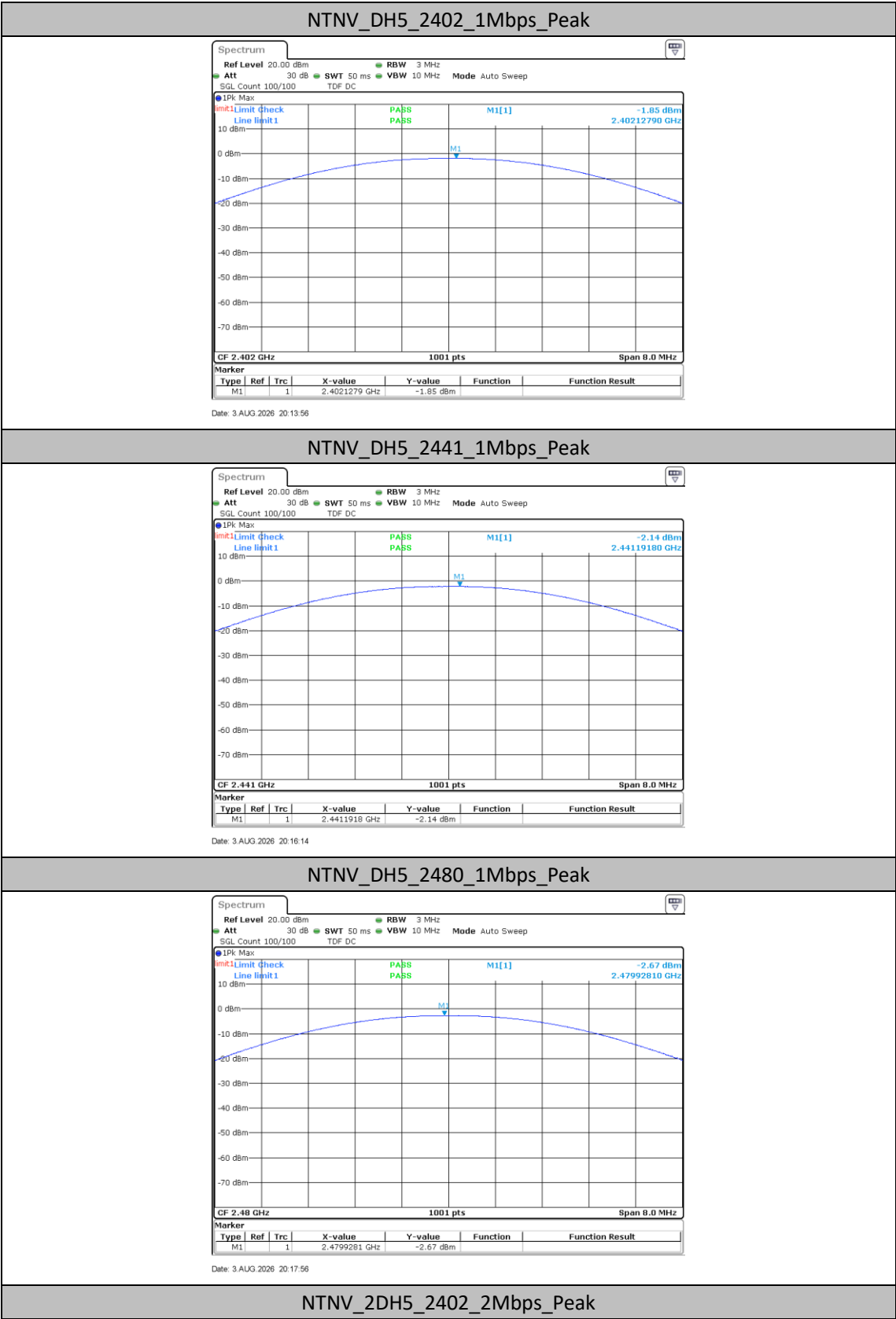


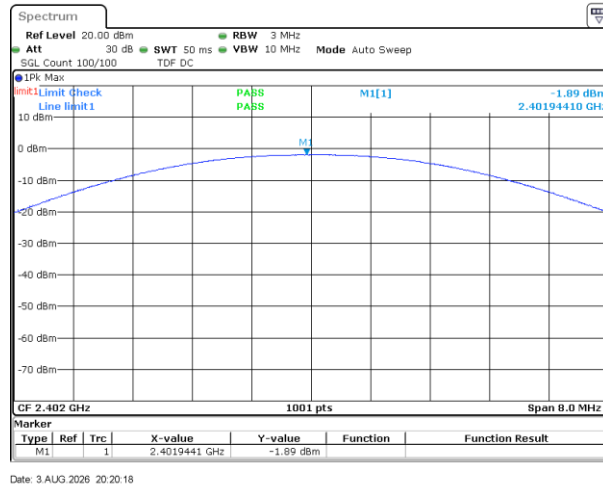
Appendix C: Maximum conducted output power

Test Result

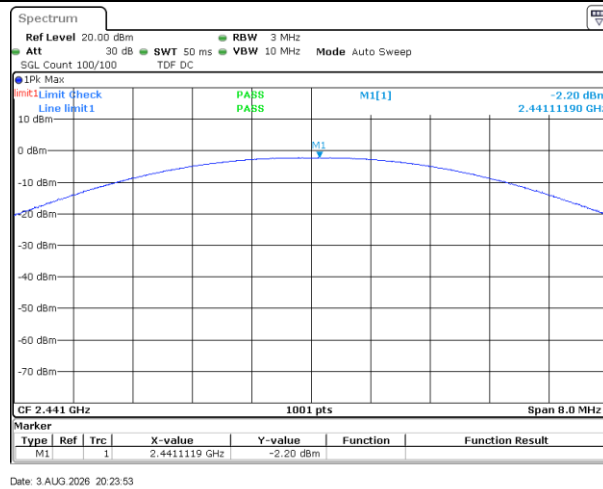
NO.	Test Condition	Test Mode	Freq (MHz)	Detector	Antenna	Conducted Peak Power (dBm)	Conducted Limit (dBm)	Verdict
1	NTNV	DH5	2402	Peak	ANT1	-1.85	≤ 30	Pass
2	NTNV	DH5	2441	Peak	ANT1	-2.14	≤ 30	Pass
3	NTNV	DH5	2480	Peak	ANT1	-2.67	≤ 30	Pass
4	NTNV	2DH5	2402	Peak	ANT1	-1.89	≤ 30	Pass
5	NTNV	2DH5	2441	Peak	ANT1	-2.20	≤ 30	Pass
6	NTNV	2DH5	2480	Peak	ANT1	-2.71	≤ 30	Pass
7	NTNV	3DH5	2402	Peak	ANT1	-1.50	≤ 30	Pass
8	NTNV	3DH5	2441	Peak	ANT1	-1.78	≤ 30	Pass
9	NTNV	3DH5	2480	Peak	ANT1	-2.40	≤ 30	Pass

Test Graphs

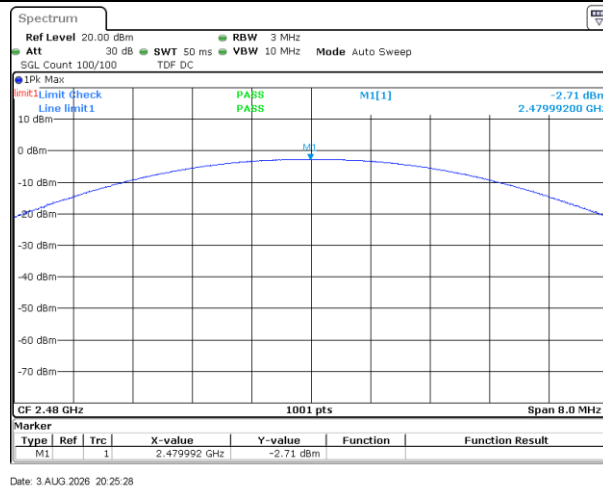




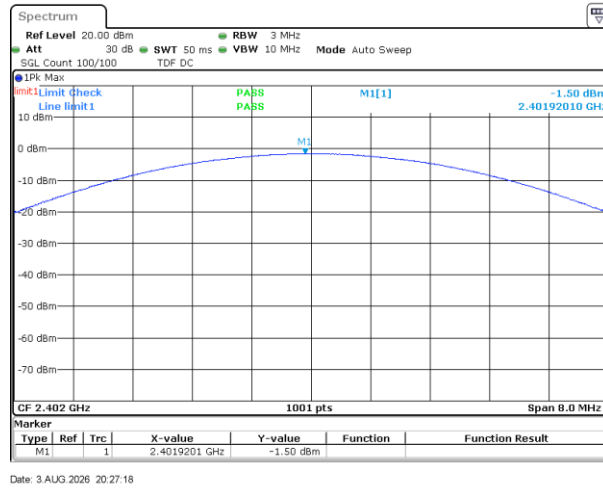
NTNV_2DH5_2441_2Mbps_Peak



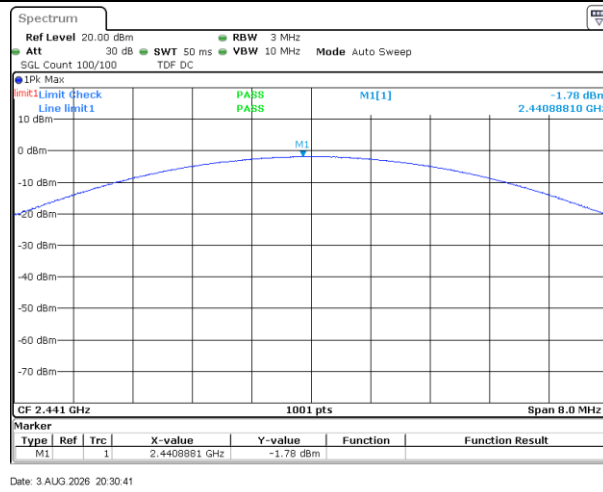
NTNV_2DH5_2480_2Mbps_Peak



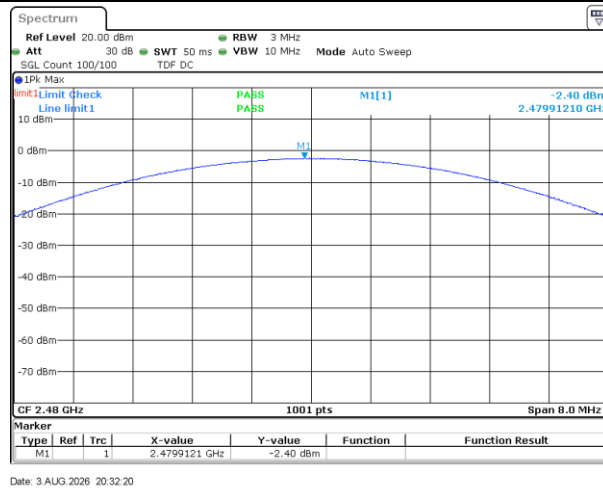
NTNV_3DH5_2402_3Mbps_Peak



NTNV_3DH5_2441_3Mbps_Peak



NTNV_3DH5_2480_3Mbps_Peak

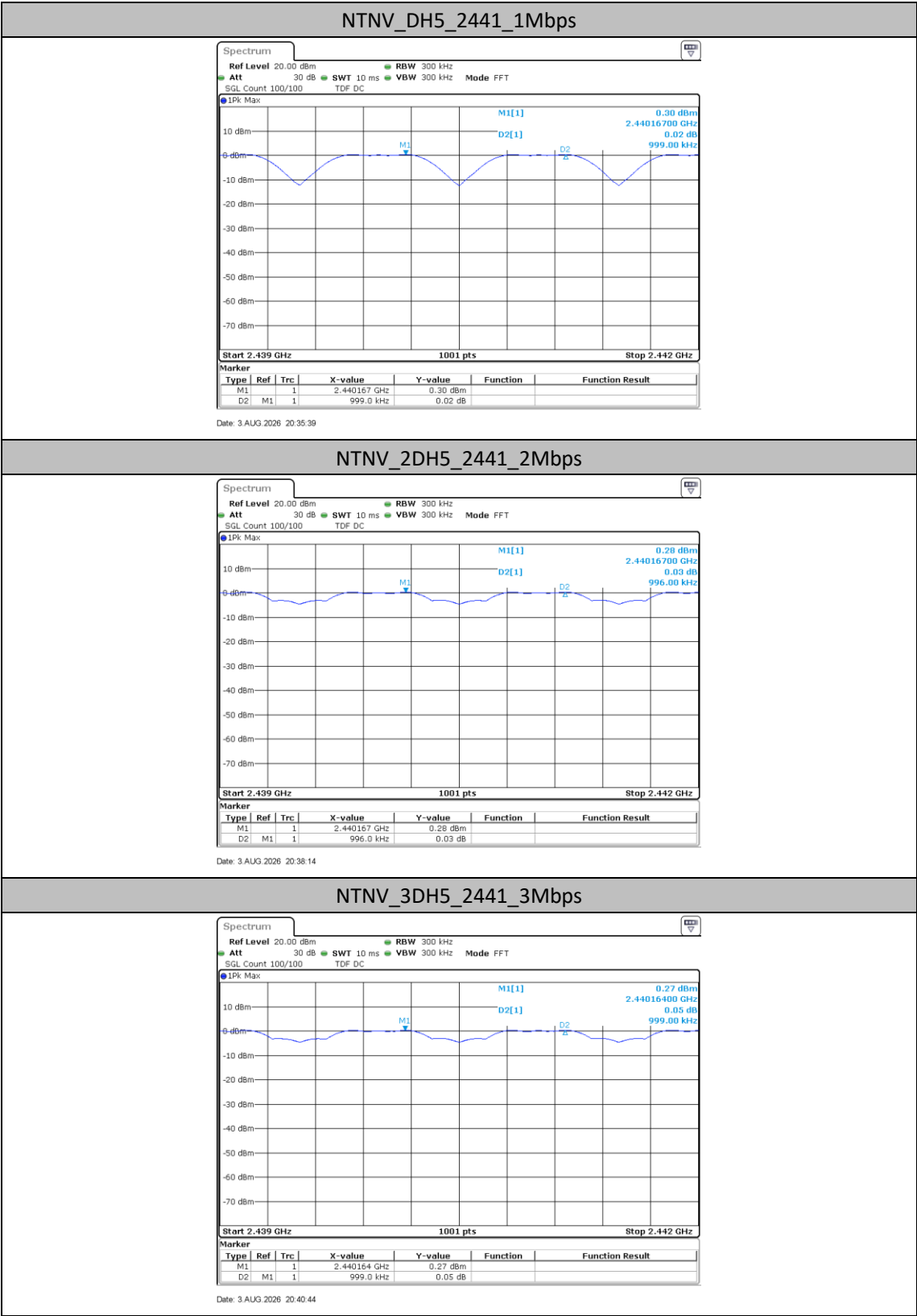


Appendix D: Carrier frequency separation

Test Result

NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Result (MHz)	Limit (MHz)	Verdict
1	NTNV	DH5 FHSS	2441	1Mbps	ANT1	1.00	≥ 0.63	Pass
2	NTNV	2DH5 FHSS	2441	2Mbps	ANT1	1.00	≥ 0.85	Pass
3	NTNV	3DH5 FHSS	2441	3Mbps	ANT1	1.00	≥ 0.8	Pass

Test Graphs

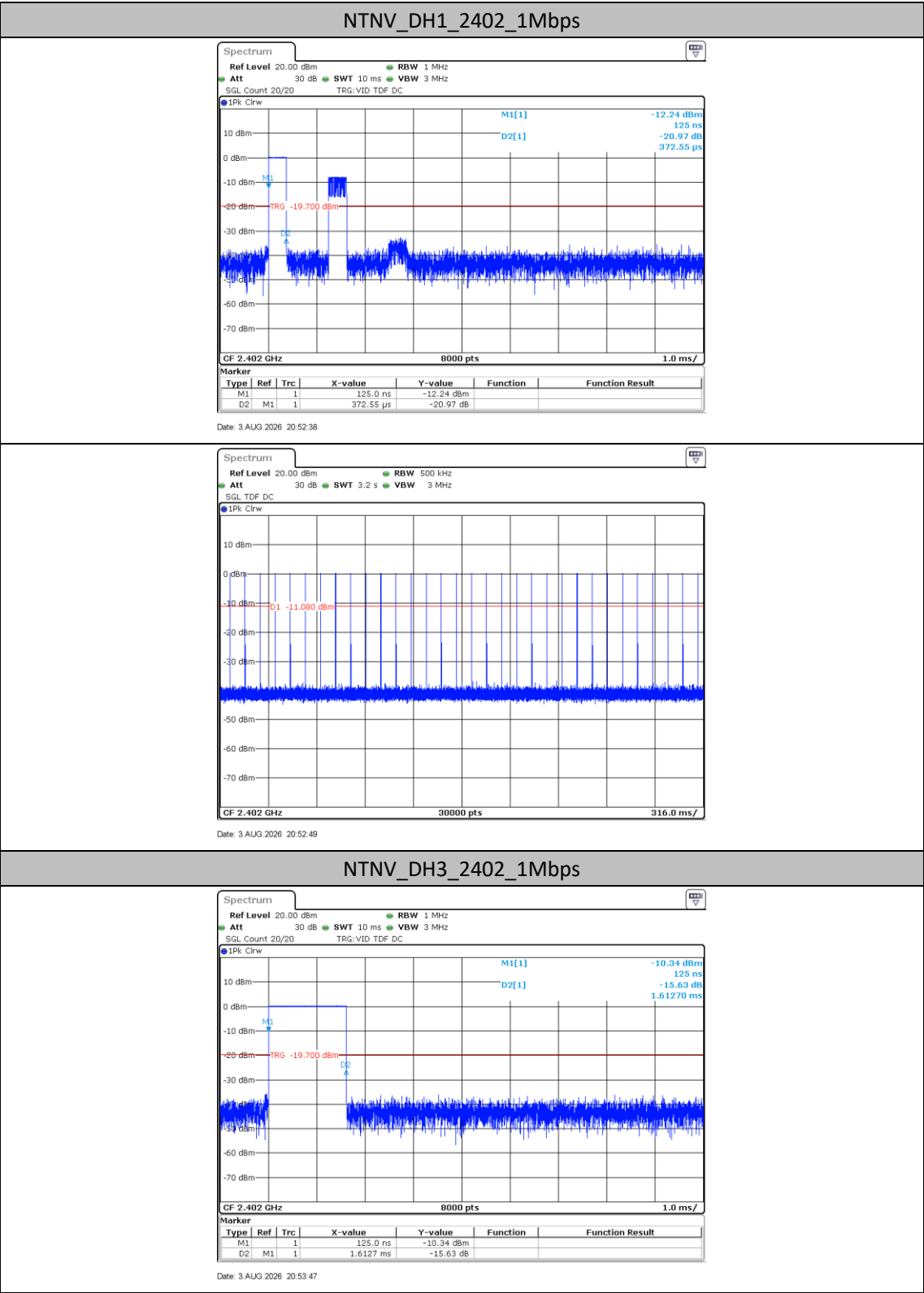


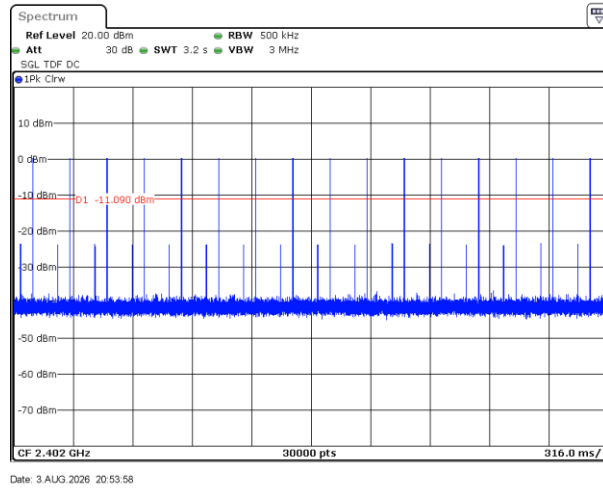
Appendix E: Time of occupancy

Test Result

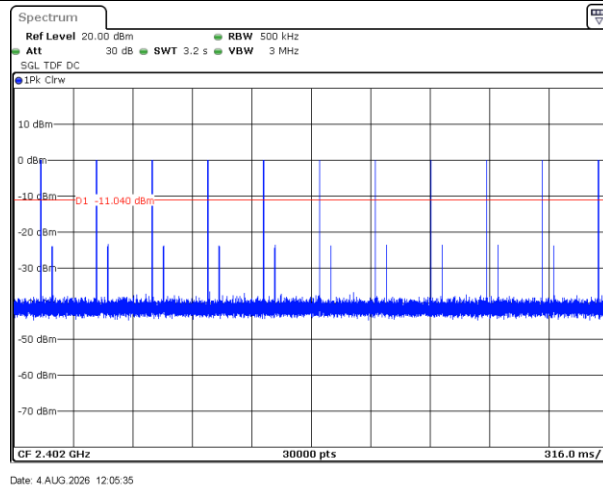
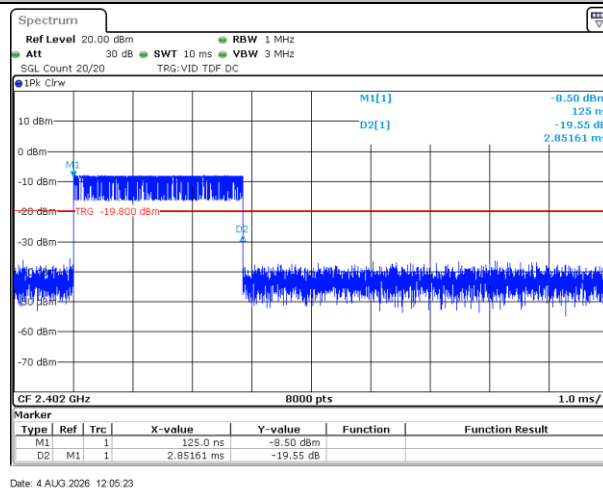
NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Burst Width (ms)	Total Hops	Dwell Time (s)	Limit (s)	Verdict
1	NTNV	DH1 FHSS	2402	1Mbps	ANT1	0.37	32	0.12	≤0.4	Pass
2	NTNV	DH3 FHSS	2402	1Mbps	ANT1	1.61	16	0.26	≤0.4	Pass
3	NTNV	DH5 FHSS	2402	1Mbps	ANT1	2.85	11	0.31	≤0.4	Pass
4	NTNV	2DH1 FHSS	2402	2Mbps	ANT1	0.38	32	0.12	≤0.4	Pass
5	NTNV	2DH3 FHSS	2402	2Mbps	ANT1	1.62	16	0.26	≤0.4	Pass
6	NTNV	2DH5 FHSS	2402	2Mbps	ANT1	2.86	11	0.32	≤0.4	Pass
7	NTNV	3DH1 FHSS	2402	3Mbps	ANT1	0.38	32	0.12	≤0.4	Pass
8	NTNV	3DH3 FHSS	2402	3Mbps	ANT1	1.62	16	0.26	≤0.4	Pass
9	NTNV	3DH5 FHSS	2402	3Mbps	ANT1	2.87	11	0.32	≤0.4	Pass

Test Graphs

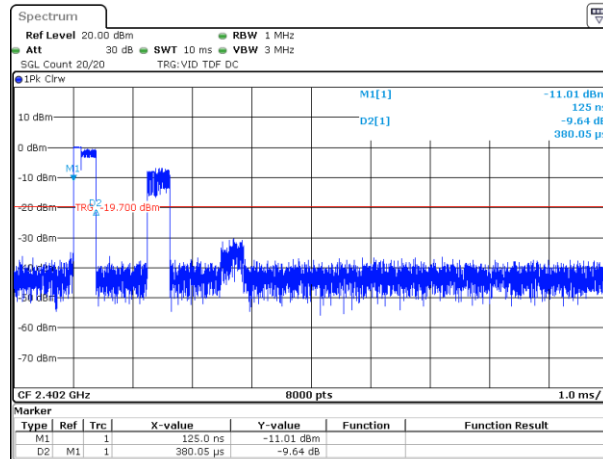




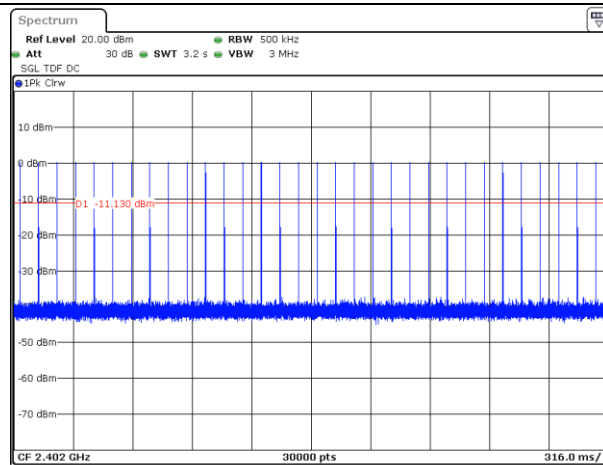
NTNV_DH5_2402_1Mbps



NTNV_2DH1_2402_2Mbps

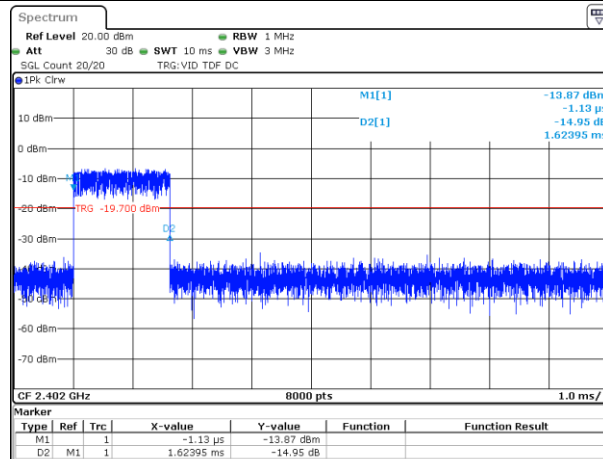


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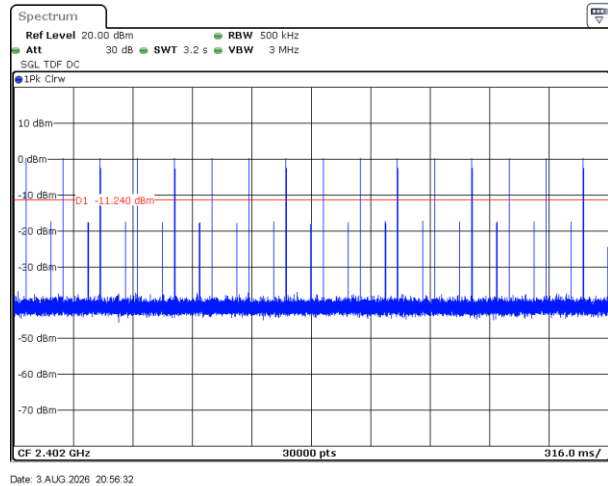


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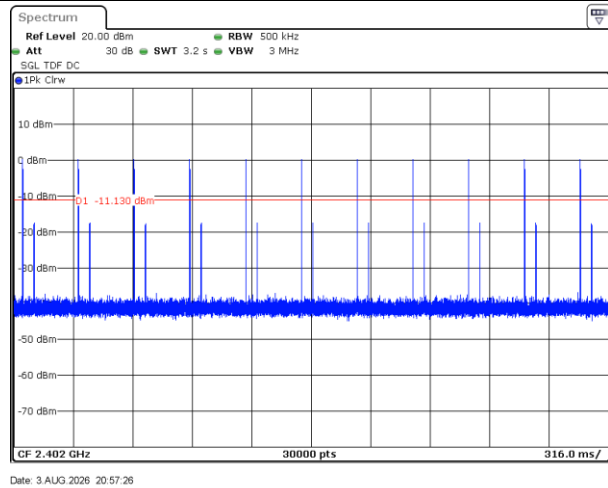
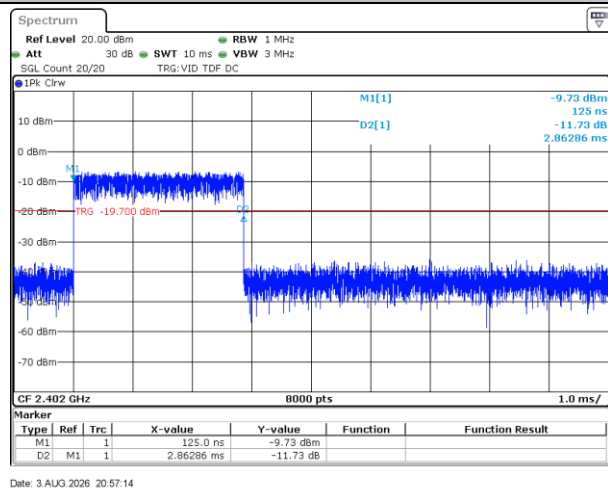
NTNV_2DH3_2402_2Mbps



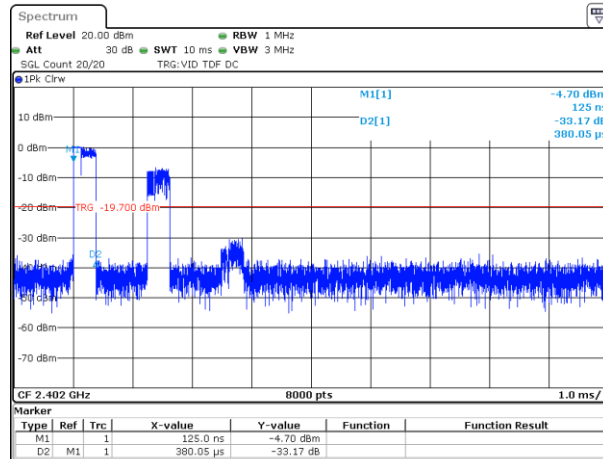
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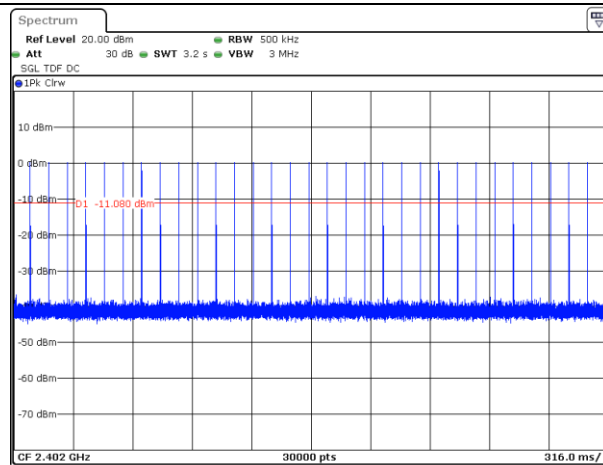
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NTNV_3DH1_2402_3Mbps

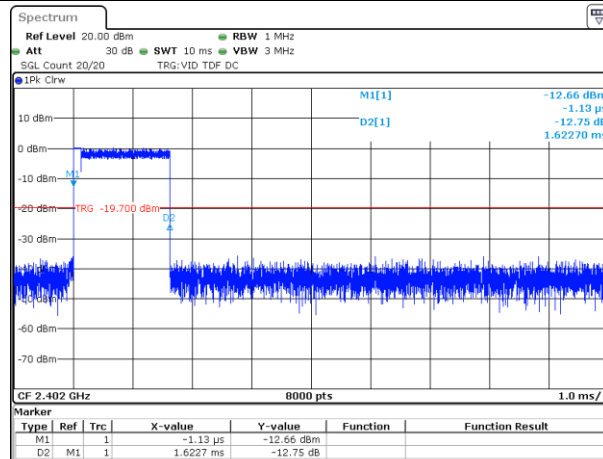


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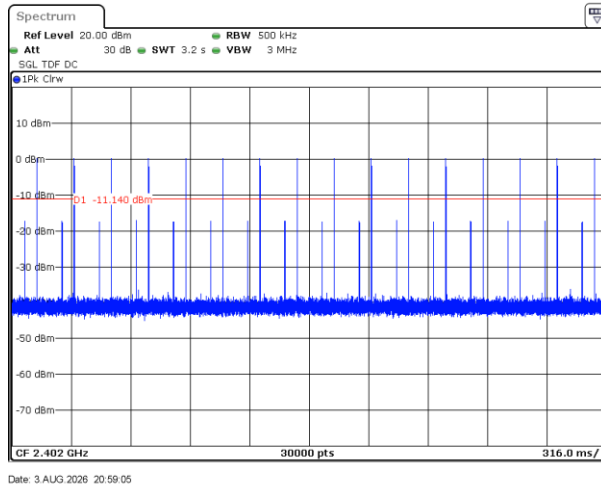


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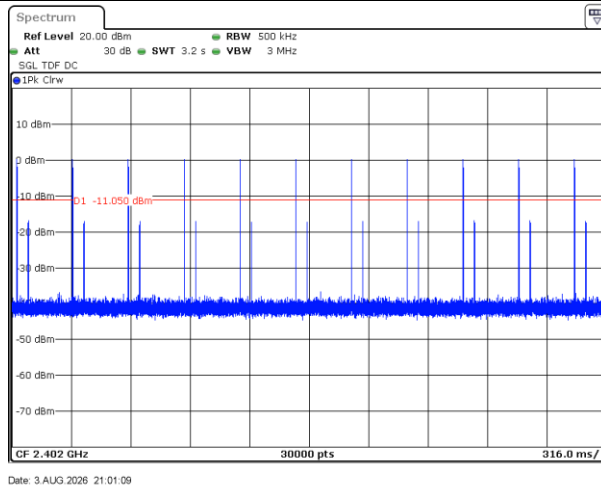
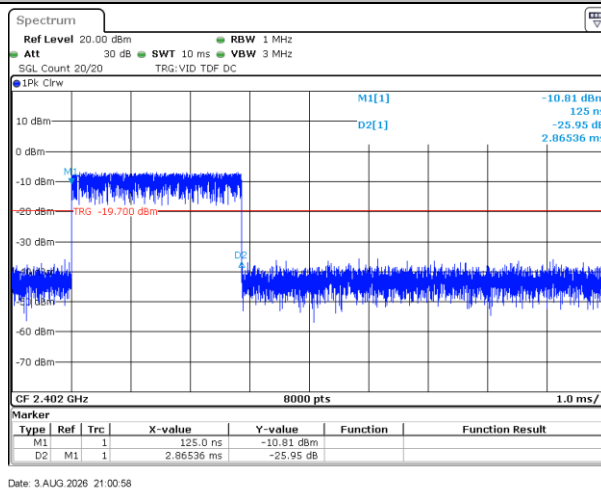
NTNV_3DH3_2402_3Mbps



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NTNV_3DH5_2402_3Mbps



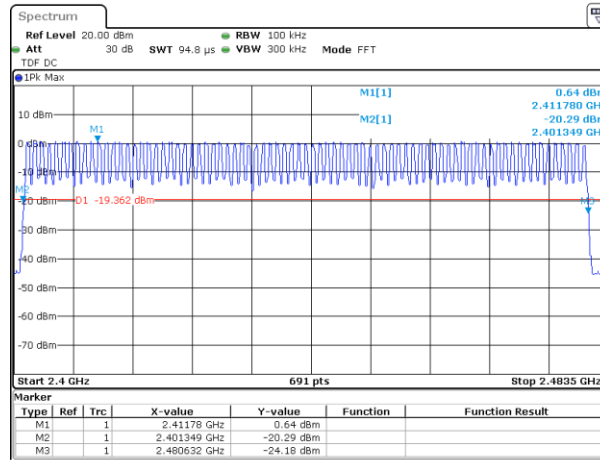
Appendix F: Number of hopping channels

Test Result

NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Result (Num)	Limit (Num)	Verdict
1	NTNV	DH5 FHSS	2441	1Mbps	ANT1	79	≥ 15	Pass
2	NTNV	2DH5 FHSS	2441	2Mbps	ANT1	79	≥ 15	Pass
3	NTNV	3DH5 FHSS	2441	3Mbps	ANT1	79	≥ 15	Pass

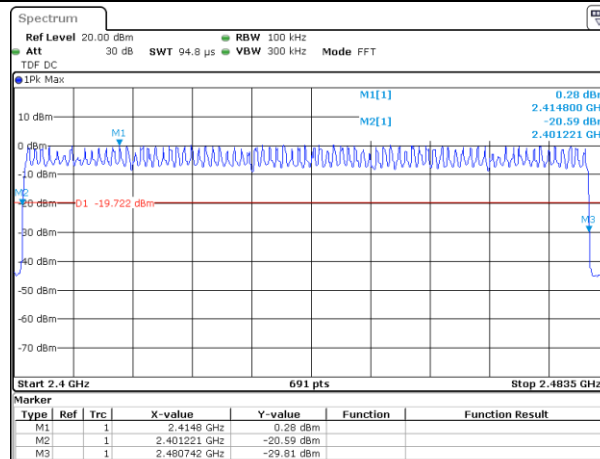
Test Graphs

NTNV_DH5_2441_1Mbps



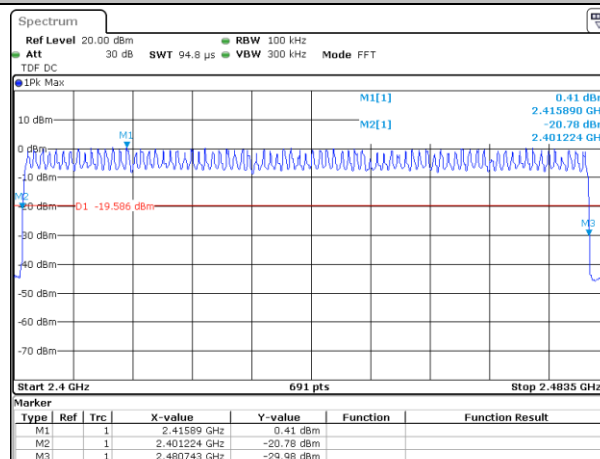
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NTNV_2DH5_2441_2Mbps



Date: 3 AUG 2026 20:40:20

NTNV_3DH5_2441_3Mbps



Date: 3 AUG 2026 20:42:50

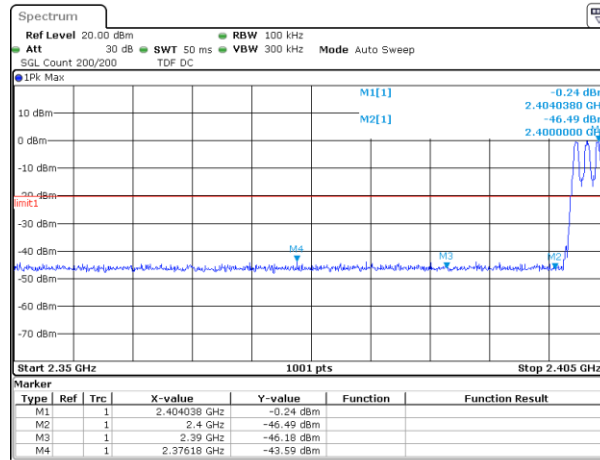
Appendix G: Band edge measurements

Test Result

NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Reference (dBm)	Emission Level (dBm)	Limit (dBm)	Verdict
7	NTNV	DH5 FHSS	2402	1Mbps	ANT1	-0.24	-43.58	≤ -20.24	Pass
8	NTNV	DH5 FHSS	2480	1Mbps	ANT1	-0.32	-43.78	≤ -20.32	Pass
9	NTNV	2DH5 FHSS	2402	1Mbps	ANT1	-0.23	-43.69	≤ -20.23	Pass
10	NTNV	2DH5 FHSS	2480	1Mbps	ANT1	-1.21	-43.51	≤ -21.21	Pass
11	NTNV	3DH5 FHSS	2402	1Mbps	ANT1	-2.2	-43.57	≤ -22.2	Pass
12	NTNV	3DH5 FHSS	2480	1Mbps	ANT1	-0.5	-43.96	≤ -20.5	Pass
1	NTNV	DH5	2402	1Mbps	ANT1	-0.18	-44.56	≤ -20.18	Pass
2	NTNV	DH5	2480	1Mbps	ANT1	-1.12	-44.96	≤ -21.12	Pass
3	NTNV	2DH5	2402	2Mbps	ANT1	-0.82	-45.00	≤ -20.82	Pass
4	NTNV	2DH5	2480	2Mbps	ANT1	-1.27	-44.35	≤ -21.27	Pass
5	NTNV	3DH5	2402	3Mbps	ANT1	-2.75	-45.17	≤ -22.75	Pass
6	NTNV	3DH5	2480	3Mbps	ANT1	-1.29	-44.91	≤ -21.29	Pass

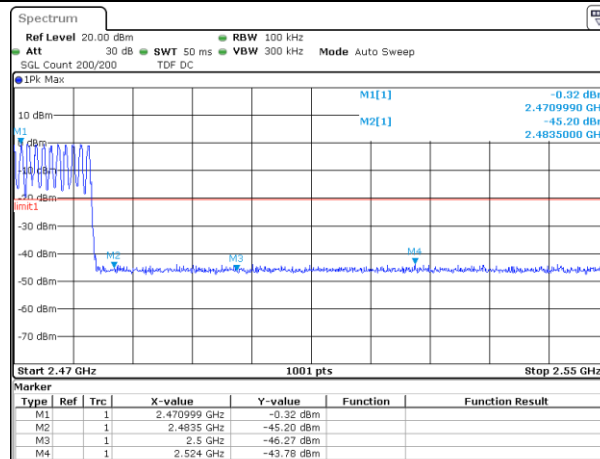
Test Graphs

NTNV_DH5_2402_1Mbps



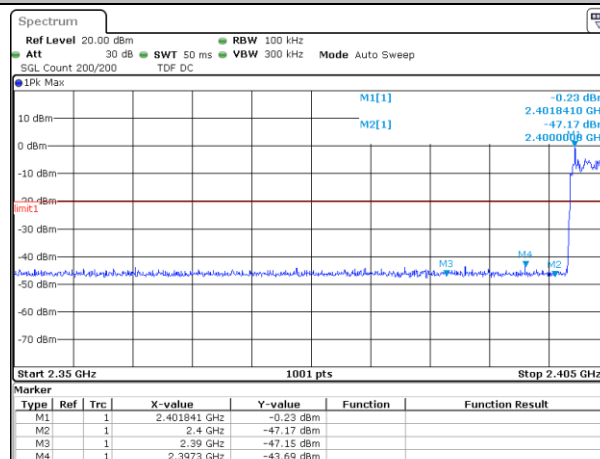
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NTNV_DH5_2480_1Mbps



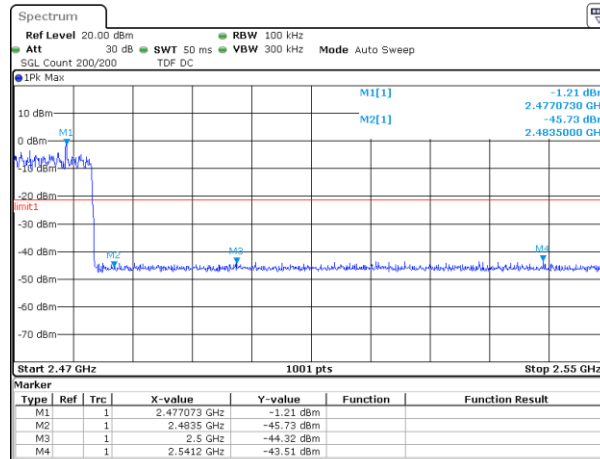
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NTNV_2DH5_2402_1Mbps



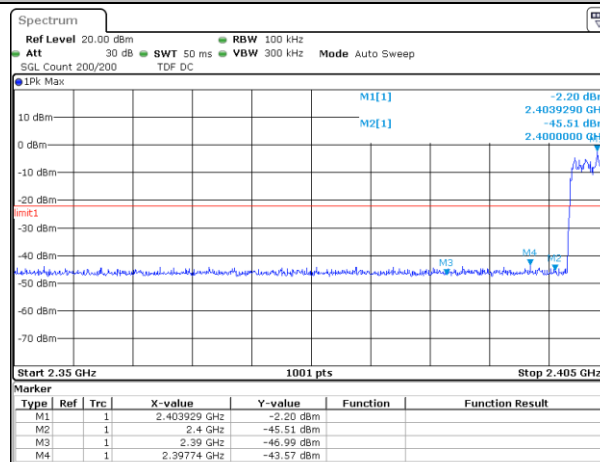
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NTNV_2DH5_2480_1Mbps



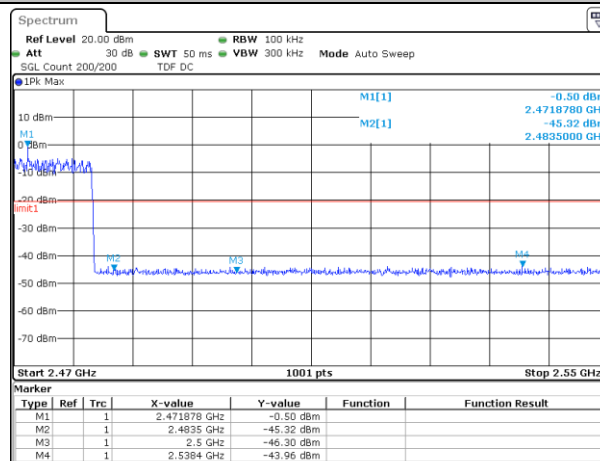
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NTNV_3DH5_2402_1Mbps



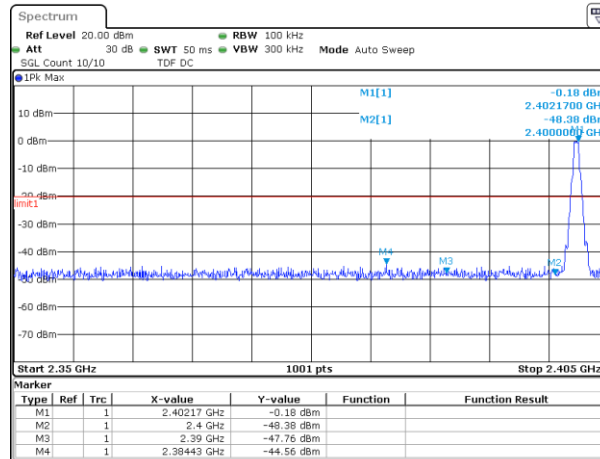
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NTNV_3DH5_2480_1Mbps



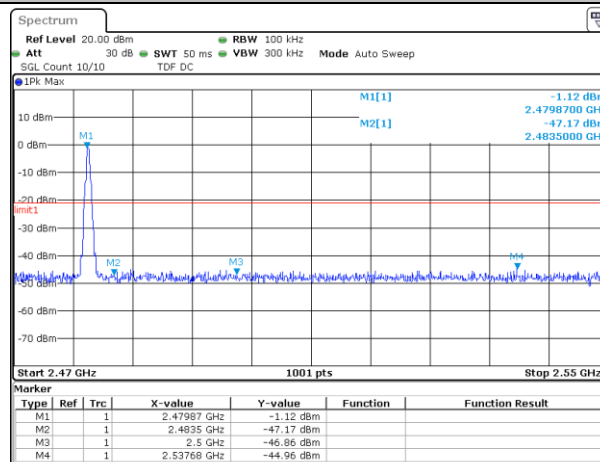
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NTNV_DH5_2402_1Mbps



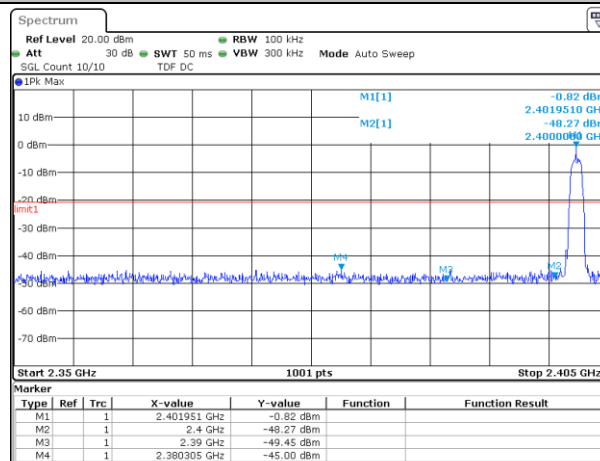
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NTNV_DH5_2480_1Mbps



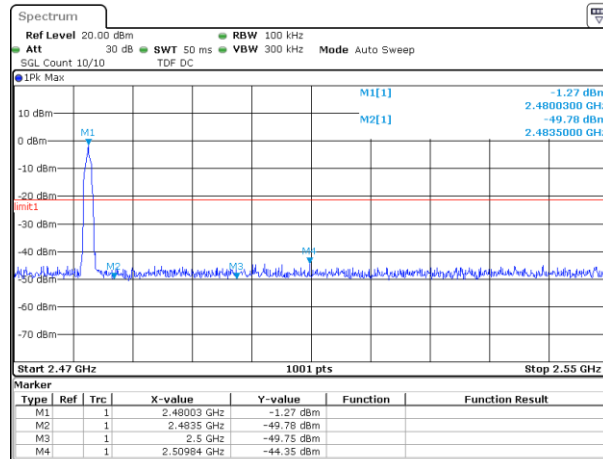
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NTNV_2DH5_2402_2Mbps



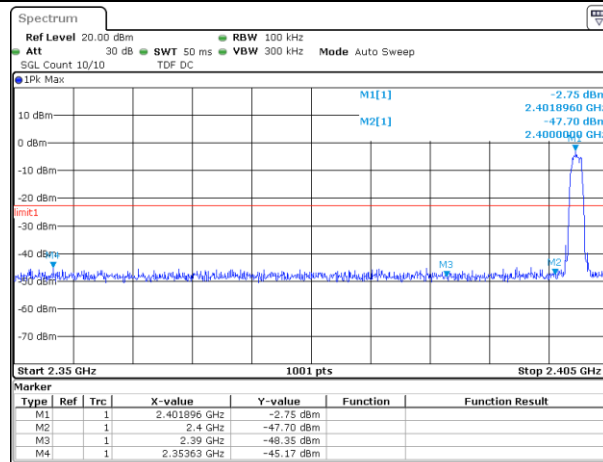
Date: 3 AUG 2026 20:20:35

NTNV_2DH5_2480_2Mbps



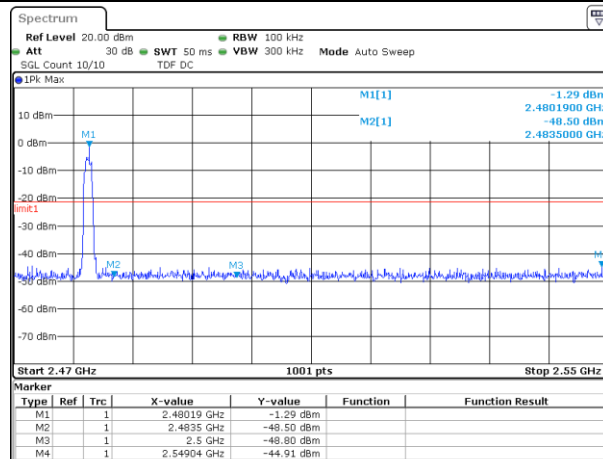
Date: 3 AUG 2026 20:25:45

NTNV_3DH5_2402_3Mbps



Date: 3 AUG 2026 20:27:35

NTNV_3DH5_2480_3Mbps



Date: 3 AUG 2026 20:32:37

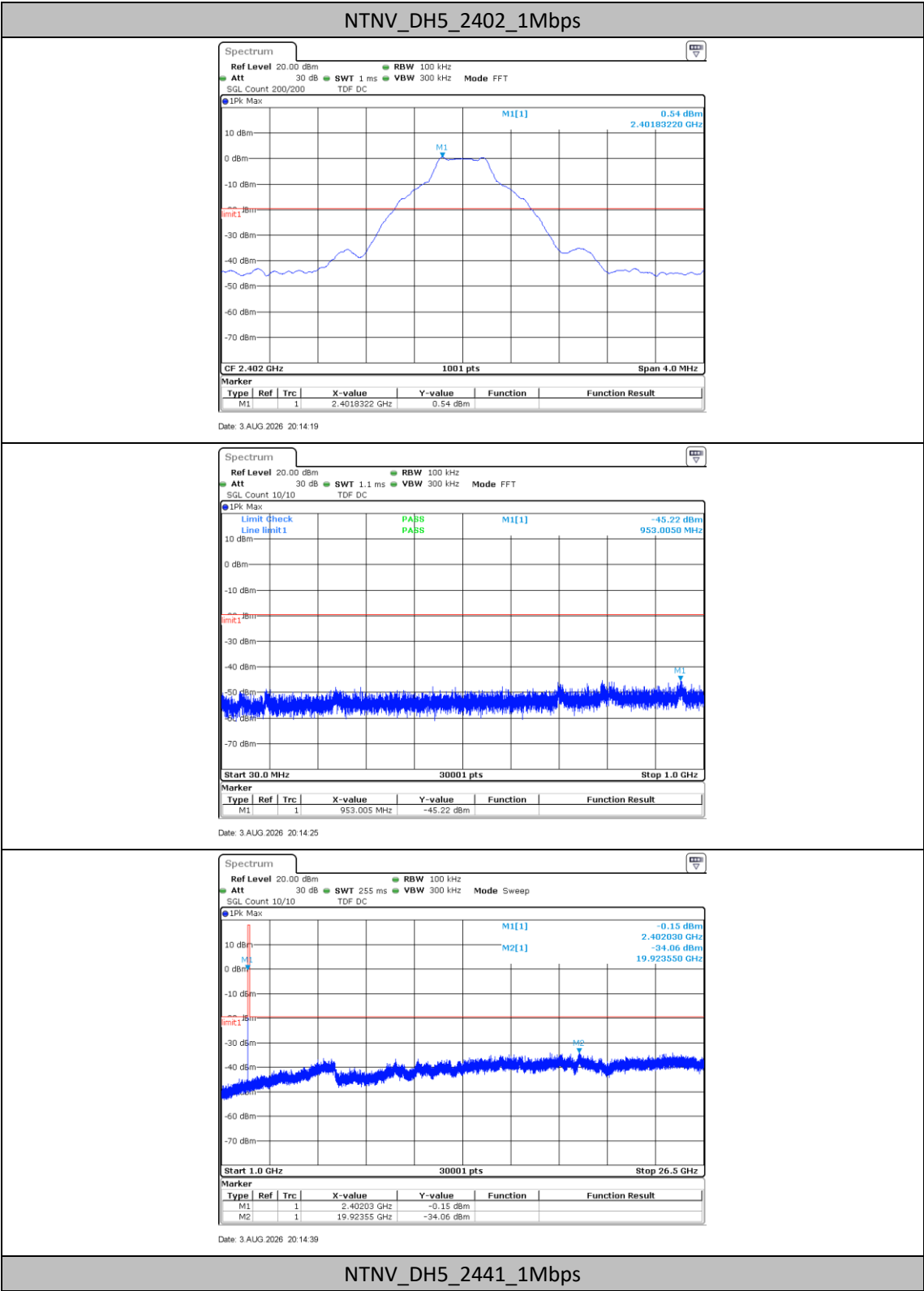
Appendix H: Conducted Spurious Emission

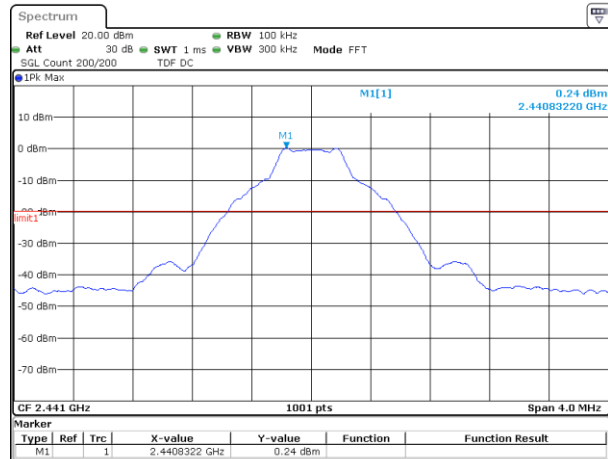
Test Result

NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Frequency Range (MHz)	Ref Level (MHz)	Max Power (dBm)	Limit (dBm)	Verdict
1	NTNV	DH5	2402	1Mbps	ANT1	Reference	0.1	0.54	/	/
						30~1000	0.1	-45.22	≤-19.46	Pass
						1000~26500	0.1	-34.06	≤-19.46	Pass
2	NTNV	DH5	2441	1Mbps	ANT1	Reference	0.1	0.24	/	/
						30~1000	0.1	-45.34	≤-19.76	Pass
						1000~26500	0.1	-33.84	≤-19.76	Pass
3	NTNV	DH5	2480	1Mbps	ANT1	Reference	0.1	-0.34	/	/
						30~1000	0.1	-44.21	≤-20.34	Pass
						1000~26500	0.1	-34.15	≤-20.34	Pass
4	NTNV	2DH5	2402	2Mbps	ANT1	Reference	0.1	0.4	/	/
						30~1000	0.1	-44.28	≤-19.60	Pass
						1000~26500	0.1	-32.70	≤-19.60	Pass
5	NTNV	2DH5	2441	2Mbps	ANT1	Reference	0.1	0.13	/	/
						30~1000	0.1	-44.89	≤-19.87	Pass
						1000~26500	0.1	-33.76	≤-19.87	Pass
6	NTNV	2DH5	2480	2Mbps	ANT1	Reference	0.1	-0.49	/	/
						30~1000	0.1	-45.50	≤-20.49	Pass
						1000~26500	0.1	-34.19	≤-20.49	Pass
7	NTNV	3DH5	2402	3Mbps	ANT1	Reference	0.1	0.54	/	/
						30~1000	0.1	-44.48	≤-19.46	Pass
						1000~26500	0.1	-33.85	≤-19.46	Pass
8	NTNV	3DH5	2441	3Mbps	ANT1	Reference	0.1	0.26	/	/
						30~1000	0.1	-44.45	≤-19.74	Pass
						1000~26500	0.1	-33.67	≤-19.74	Pass
9	NTNV	3DH5	2480	3Mbps	ANT1	Reference	0.1	-0.33	/	/

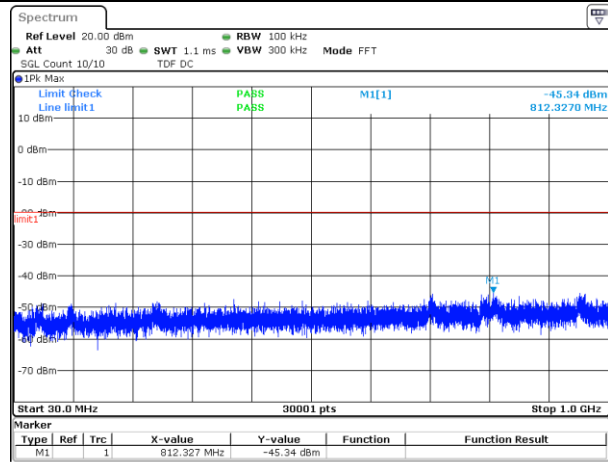
						30~1000	0.1	-44.64	≤ -20.33	Pass
						1000~26500	0.1	-33.63	≤ -20.33	Pass

Test Graphs

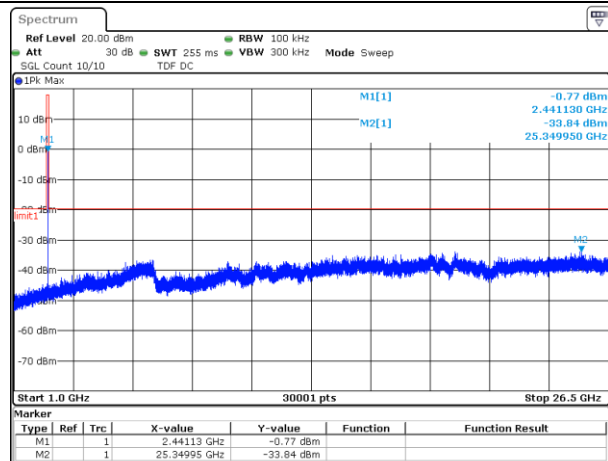




Date: 3 AUG 2026 20:16:33

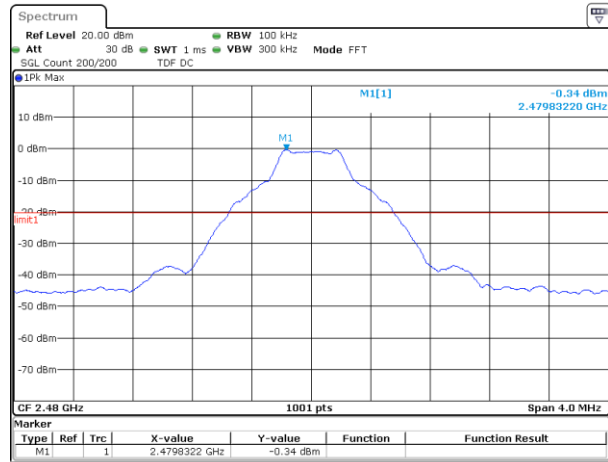


Date: 3 AUG 2026 20:16:39

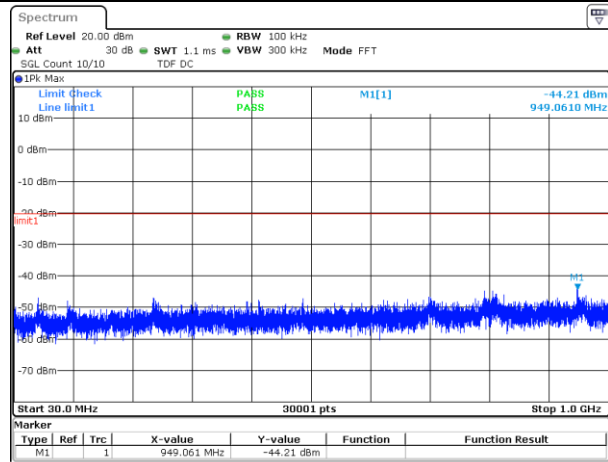


Date: 3 AUG 2026 20:16:53

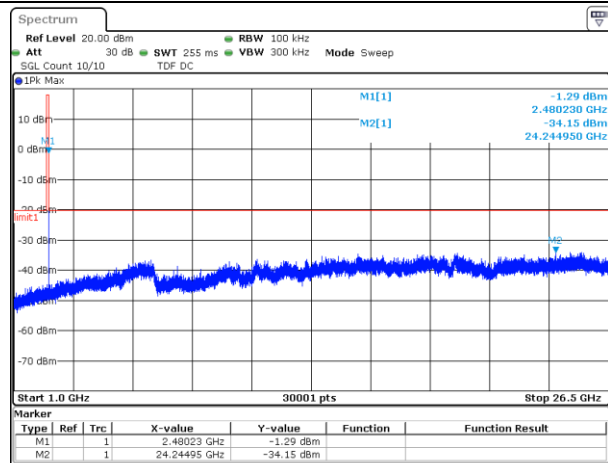
NTNV_DH5_2480_1Mbps



Date: 3 AUG 2026 20:18:19

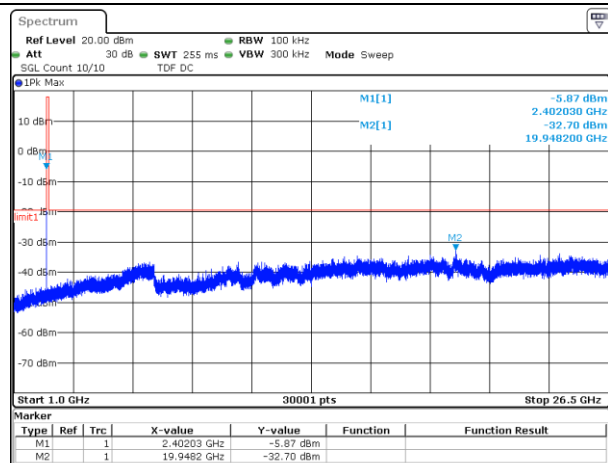
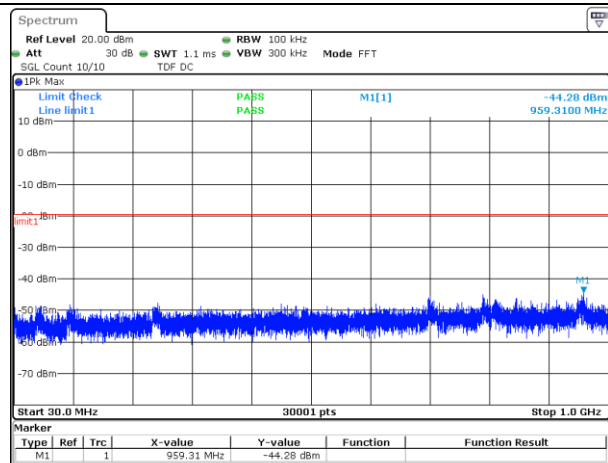
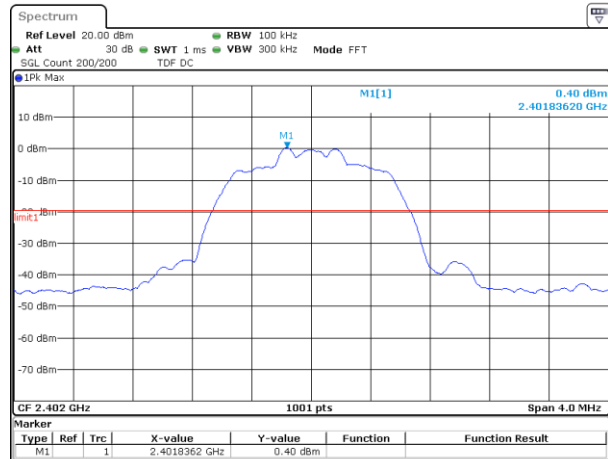


Date: 3 AUG 2026 20:18:25

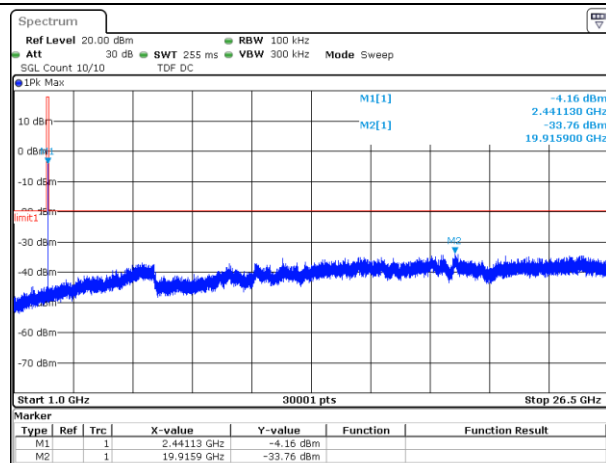
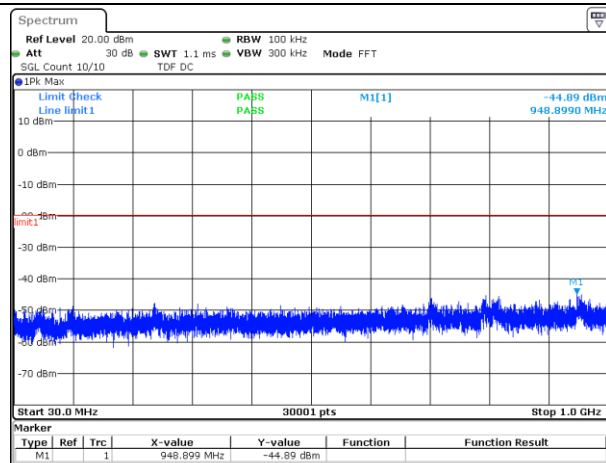
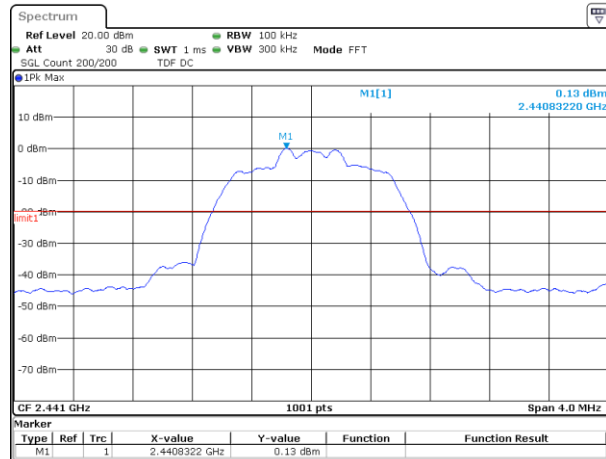


Date: 3 AUG 2026 20:18:39

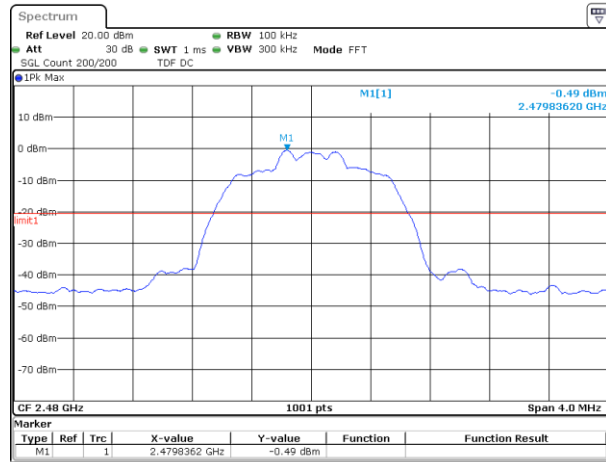
NTNV_2DH5_2402_2Mbps



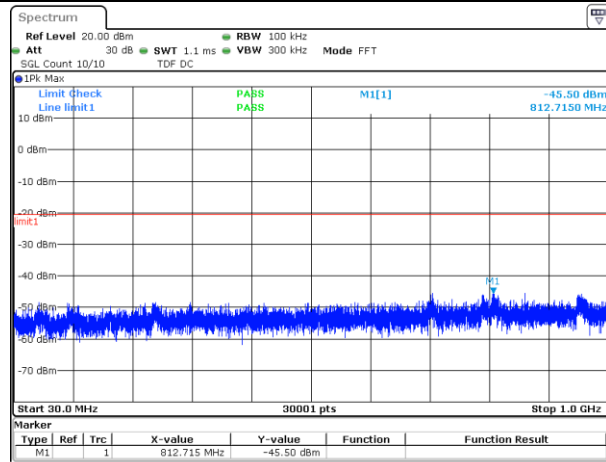
NTNV_2DH5_2441_2Mbps



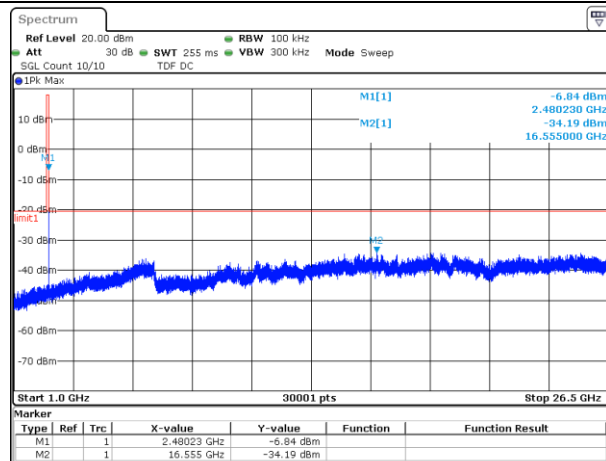
NTNV_2DH5_2480_2Mbps



Date: 3 AUG 2026 20:25:51

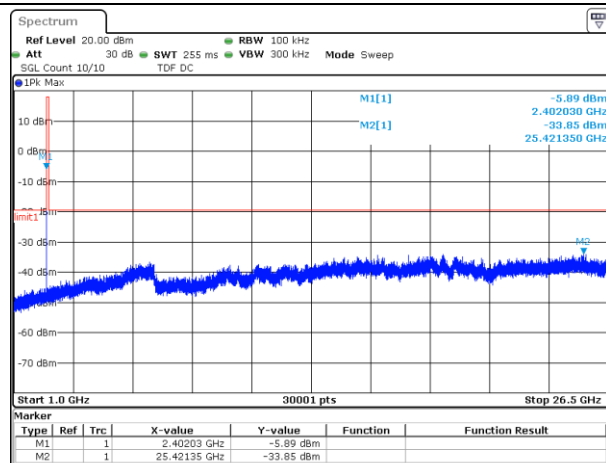
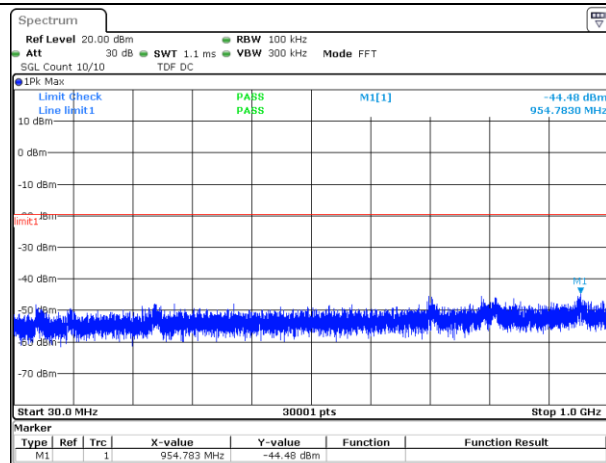
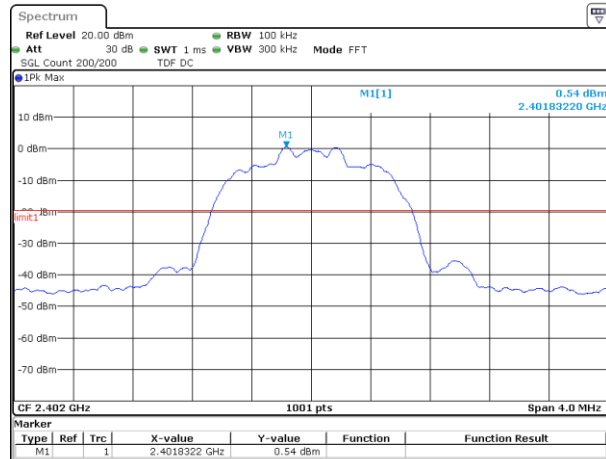


Date: 3 AUG 2026 20:25:57

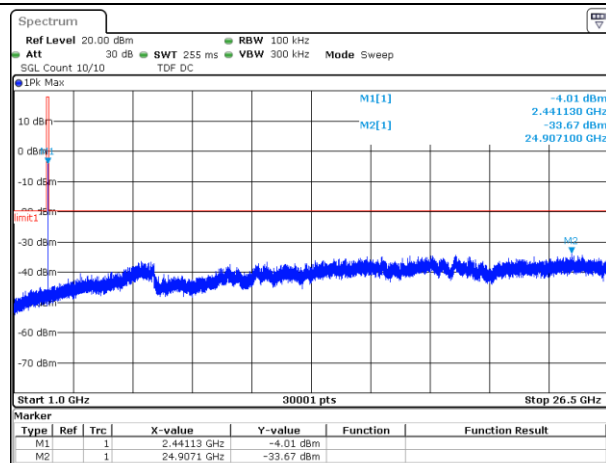
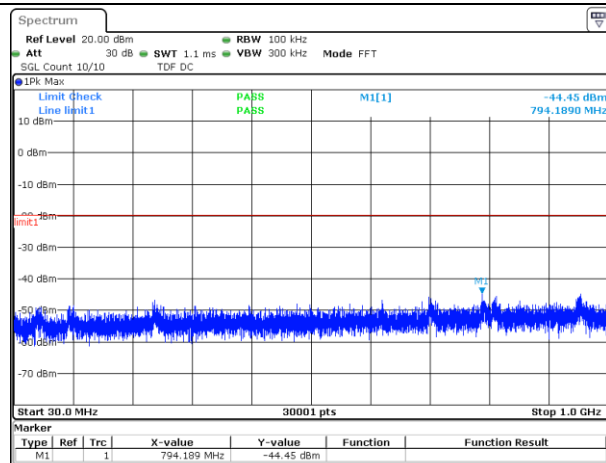
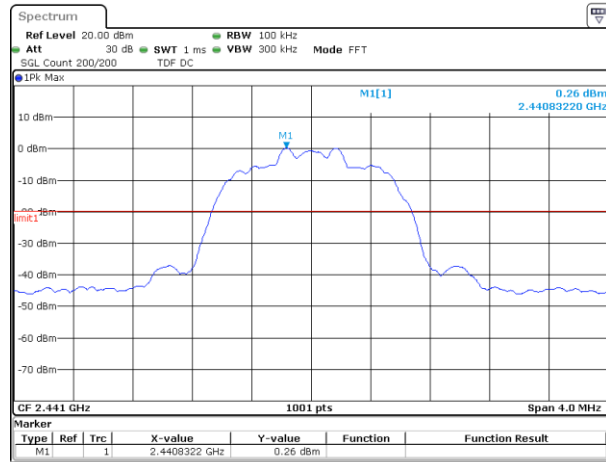


Date: 3 AUG 2026 20:26:11

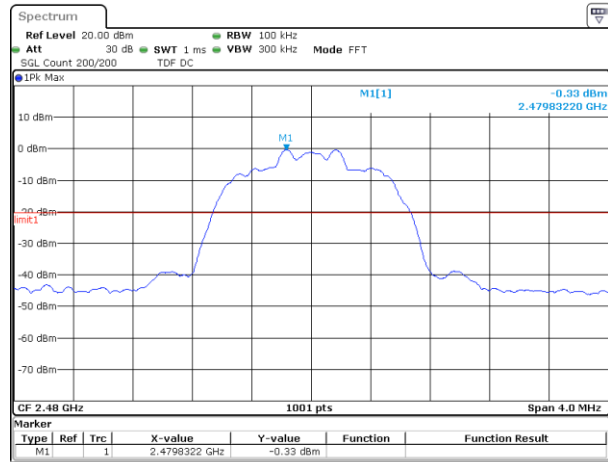
NTNV_3DH5_2402_3Mbps



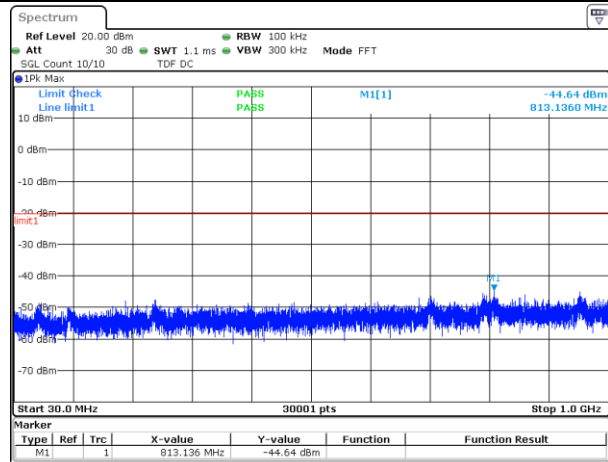
NTNV_3DH5_2441_3Mbps



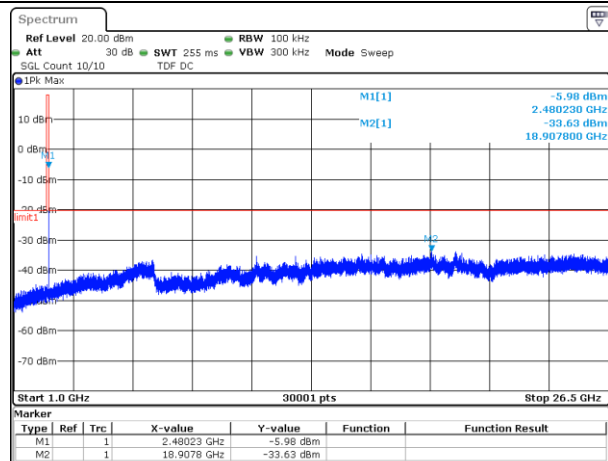
NTNV_3DH5_2480_3Mbps



Date: 3 AUG 2026 20:32:43



Date: 3 AUG 2026 20:32:43



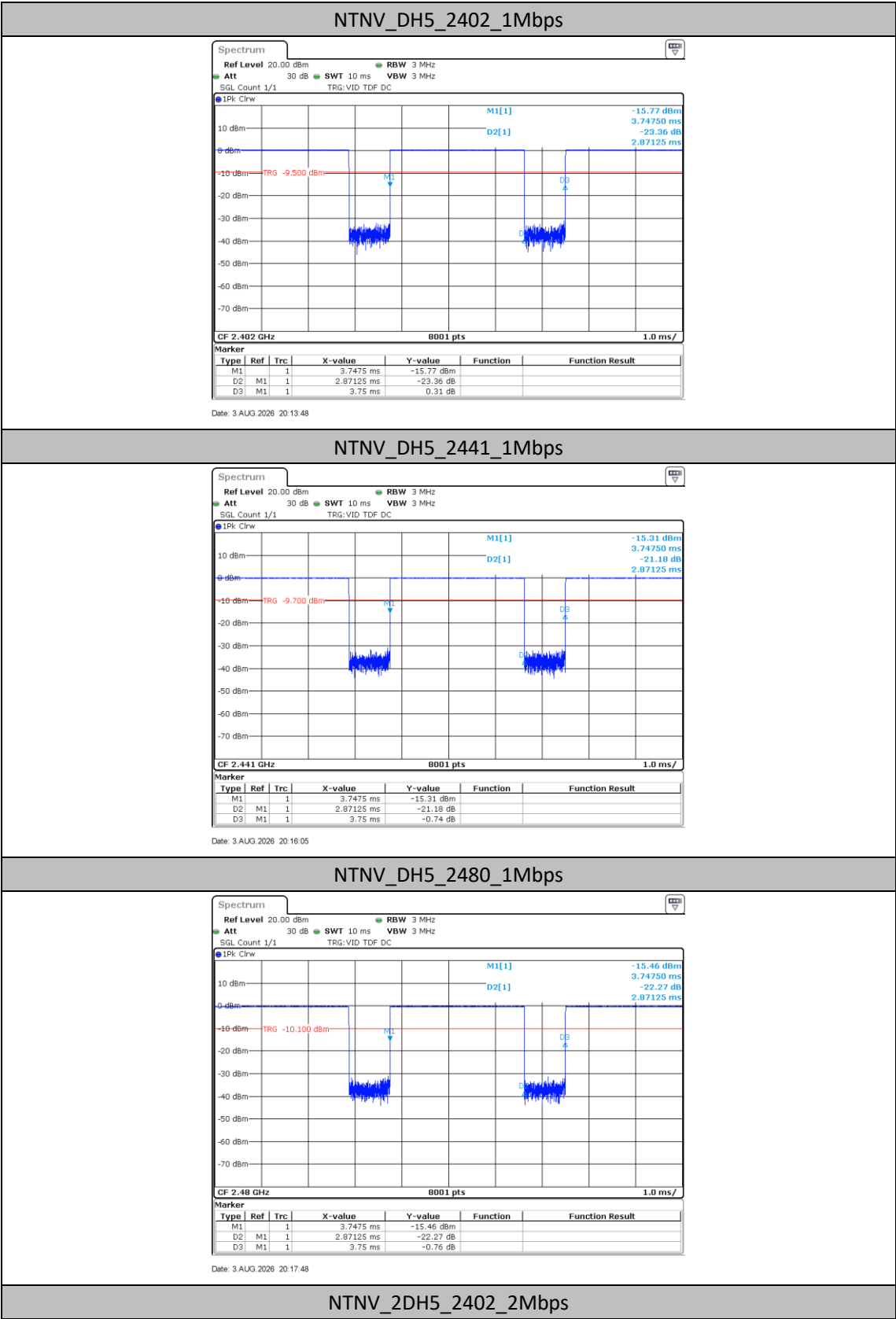
Date: 3 AUG 2026 20:33:03

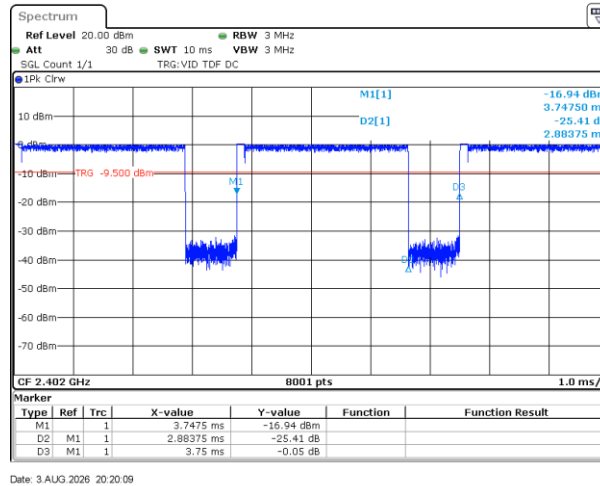
Appendix I: Duty Cycle

Test Result

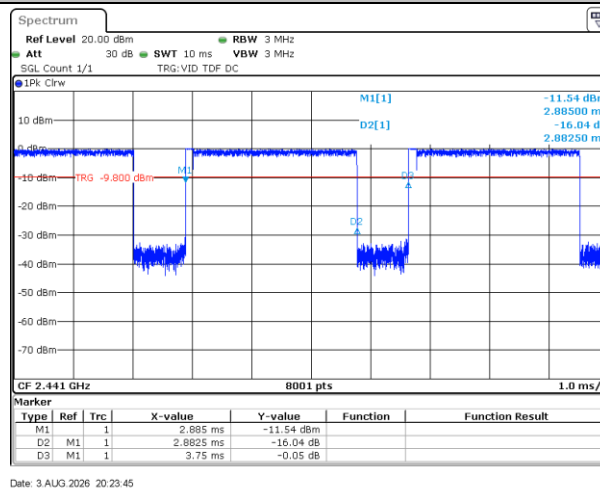
NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	T_On (ms)	Period (ms)	Duty Cycle Correction Factor (dB)	Max DC Variation (%)
1	NTNV	DH5	2402	1Mbps	ANT1	2.87	3.75	0.77	76.57
2	NTNV	DH5	2441	1Mbps	ANT1	2.87	3.75	0.77	76.57
3	NTNV	DH5	2480	1Mbps	ANT1	2.87	3.75	0.77	76.57
4	NTNV	2DH5	2402	2Mbps	ANT1	2.88	3.75	0.77	76.90
5	NTNV	2DH5	2441	2Mbps	ANT1	2.88	3.75	0.77	76.87
6	NTNV	2DH5	2480	2Mbps	ANT1	2.88	3.75	0.77	76.90
7	NTNV	3DH5	2402	3Mbps	ANT1	2.88	3.75	0.77	76.90
8	NTNV	3DH5	2441	3Mbps	ANT1	2.88	3.75	0.77	76.90
9	NTNV	3DH5	2480	3Mbps	ANT1	2.88	3.75	0.77	76.90

Test Graphs

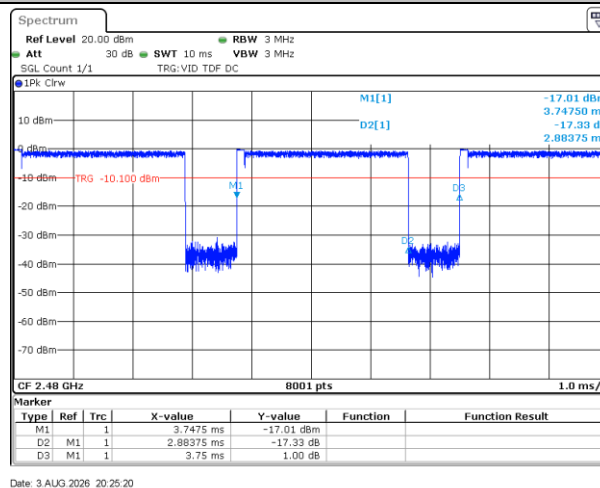




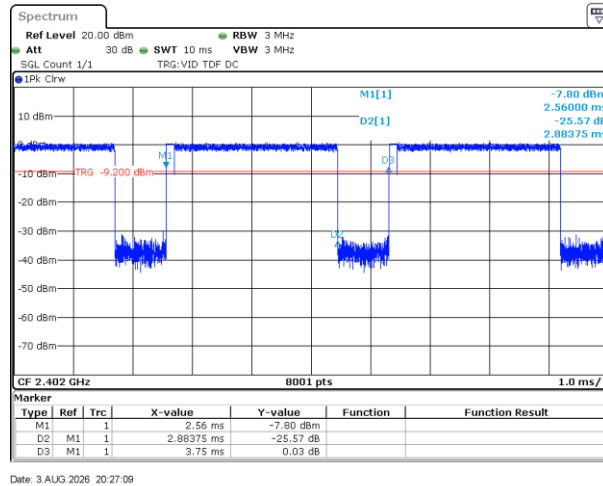
NTNV_2DH5_2441_2Mbps



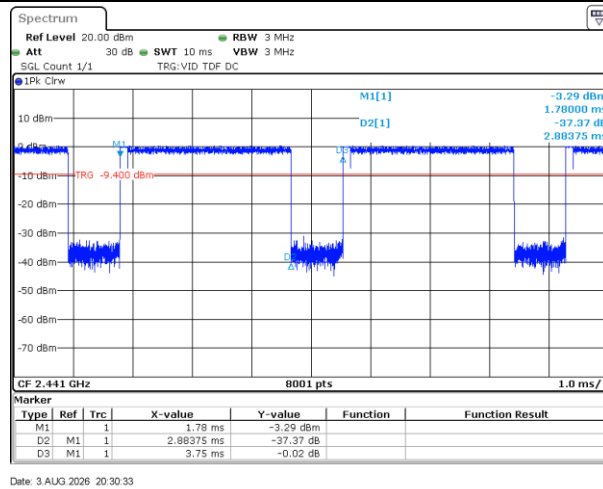
NTNV_2DH5_2480_2Mbps



NTNV_3DH5_2402_3Mbps



NTNV_3DH5_2441_3Mbps



NTNV_3DH5_2480_3Mbps

