



CQASZ20260701609E-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

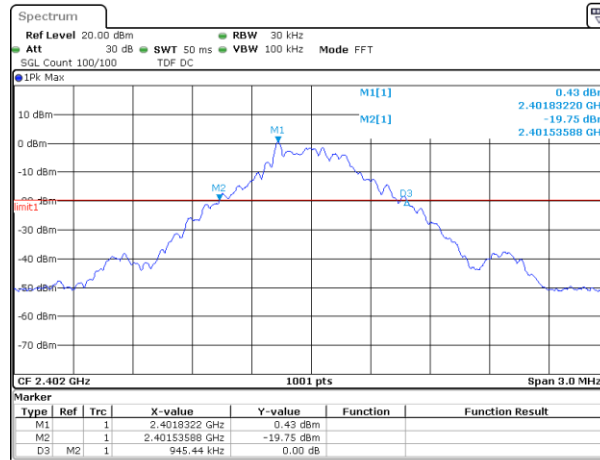
Appendix A: 20dB Emission Bandwidth

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	0.95	2440.54	2441.48	-	-
3	NTNV	DH5	2480	1Mbps	ANT1	0.94	2479.54	2480.48	-	-
4	NTNV	2DH5	2402	2Mbps	ANT1	1.25	2401.37	2402.62	-	-
5	NTNV	2DH5	2441	2Mbps	ANT1	1.25	2440.37	2441.62	-	-
6	NTNV	2DH5	2480	2Mbps	ANT1	1.23	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	1.19	2479.41	2480.60	-	-

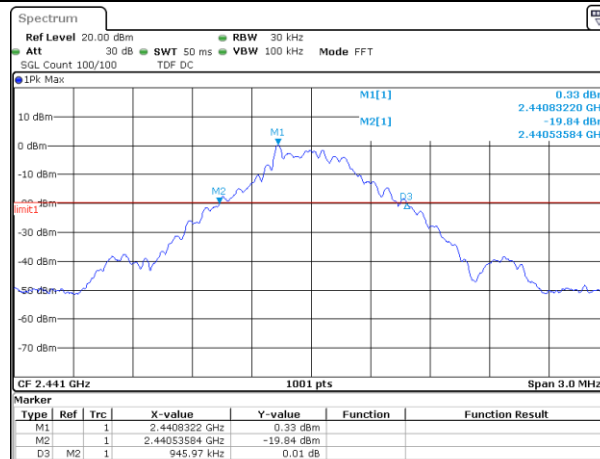
Test Graphs

NTNV_DH5_2402_1Mbps



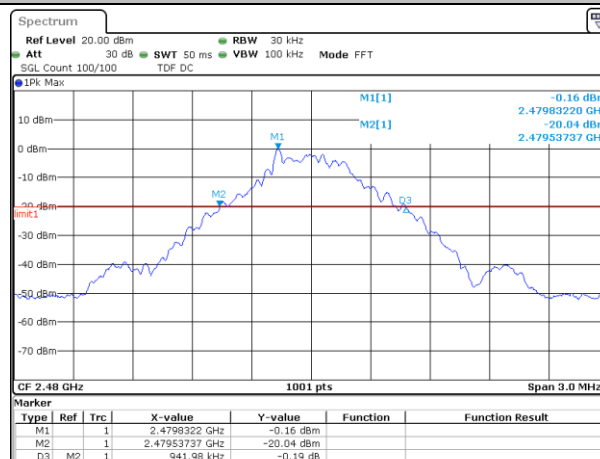
Date: 31.JUL.2026 17:12:17

NTNV_DH5_2441_1Mbps



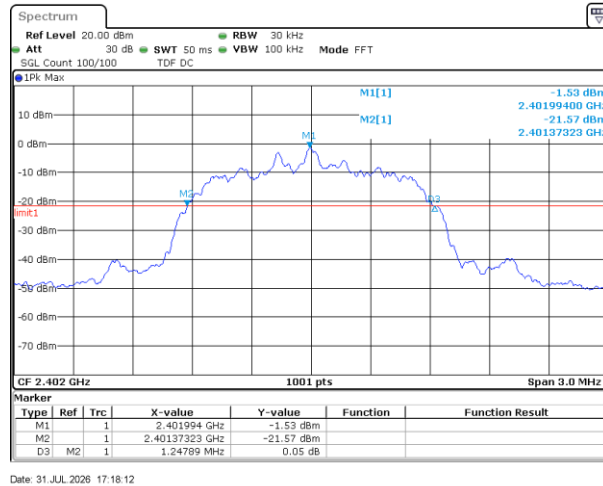
Date: 31.JUL.2026 17:14:41

NTNV_DH5_2480_1Mbps

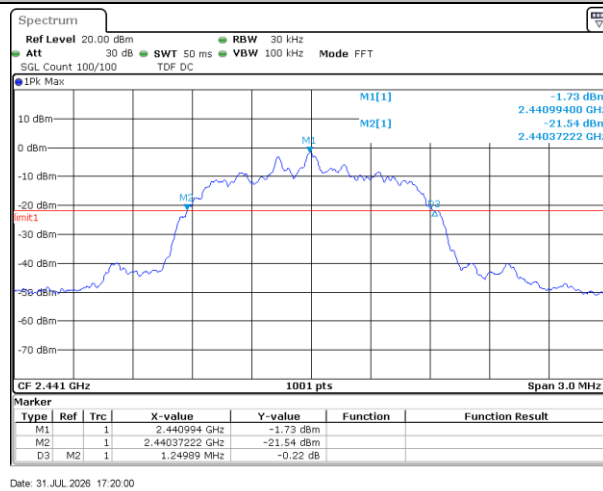


Date: 31.JUL.2026 17:16:11

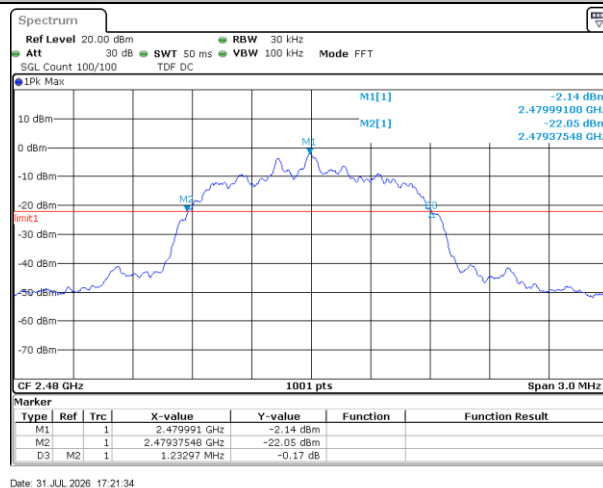
NTNV_2DH5_2402_2Mbps



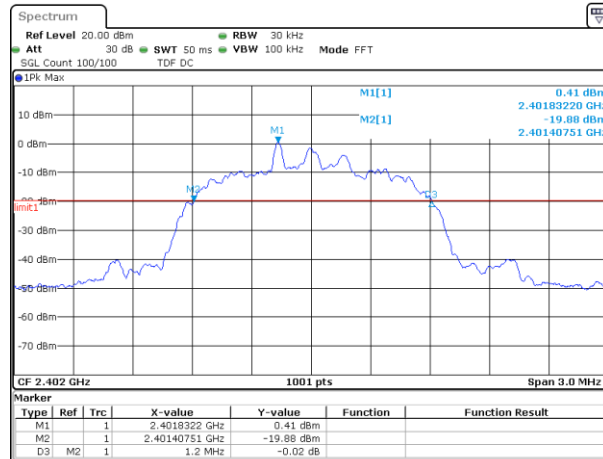
NTNV_2DH5_2441_2Mbps



NTNV_2DH5_2480_2Mbps

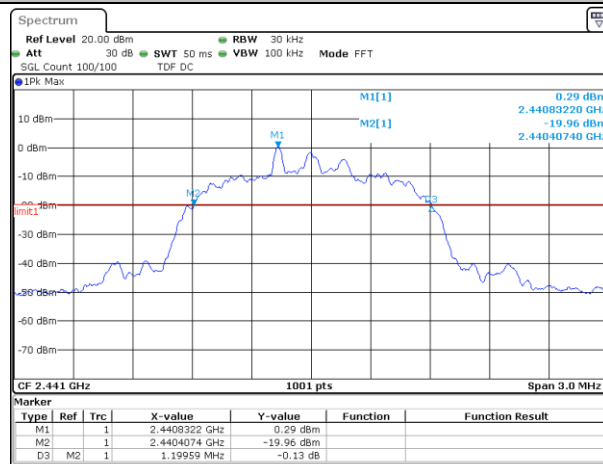


NTNV_3DH5_2402_3Mbps



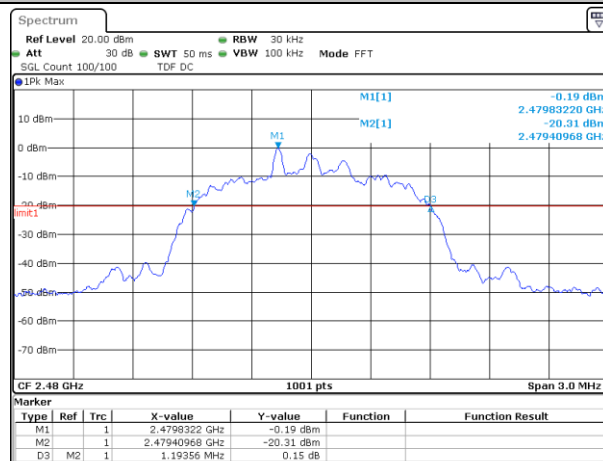
Date: 31.JUL.2026 17:23:25

NTNV_3DH5_2441_3Mbps



Date: 31.JUL.2026 17:26:41

NTNV_3DH5_2480_3Mbps



Date: 31.JUL.2026 17:29:03

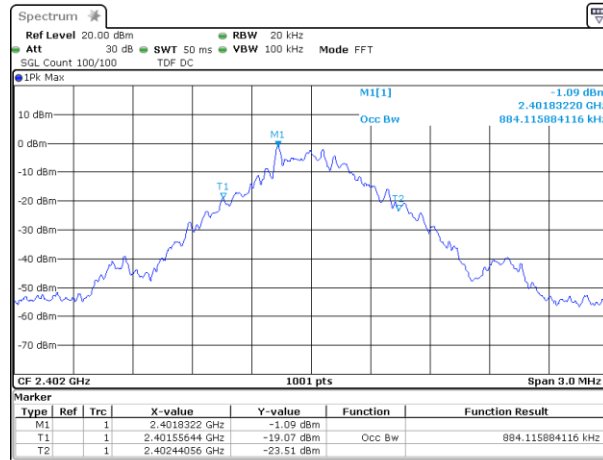
Appendix B: Occupied Channel Bandwidth

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	2441.44	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	2480.56	Pass

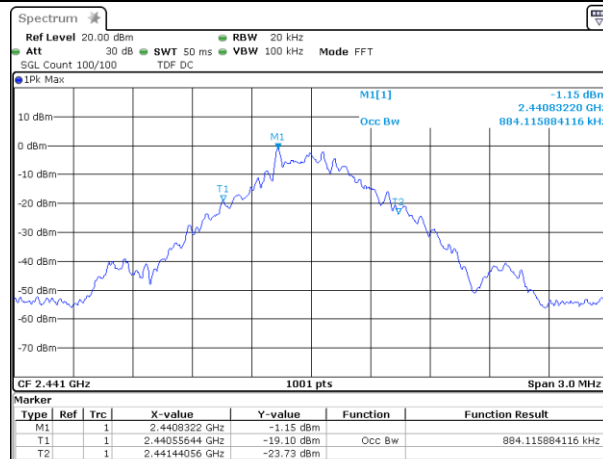
Test Graphs

NTNV_DH5_2402_1Mbps



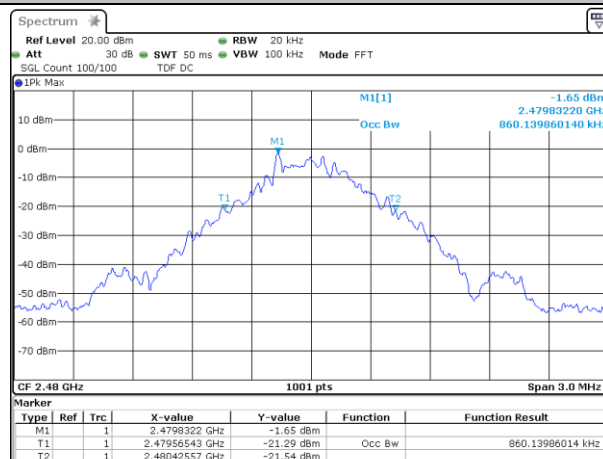
Date: 31.JUL.2026 17:11:45

NTNV_DH5_2441_1Mbps



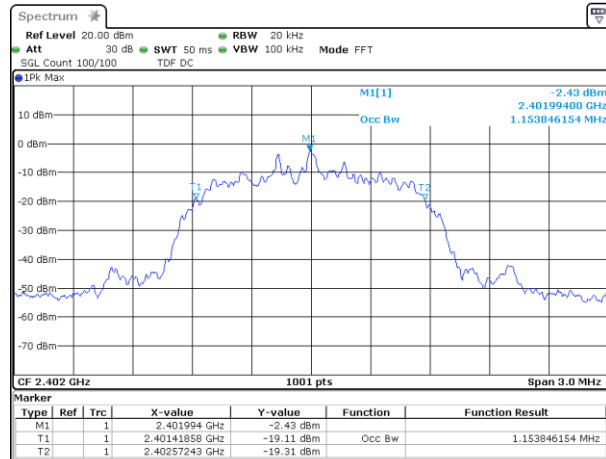
Date: 31.JUL.2026 17:14:09

NTNV_DH5_2480_1Mbps



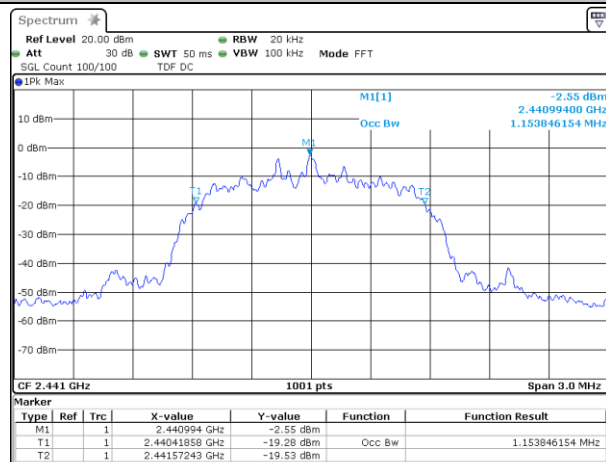
Date: 31.JUL.2026 17:15:39

NTNV_2DH5_2402_2Mbps



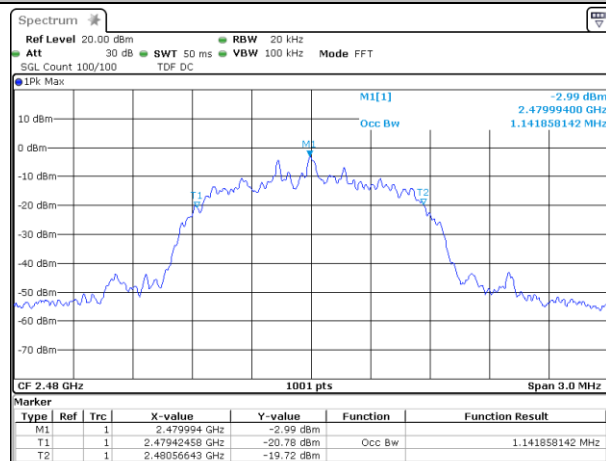
Date: 31.JUL.2026 17:17:41

NTNV_2DH5_2441_2Mbps



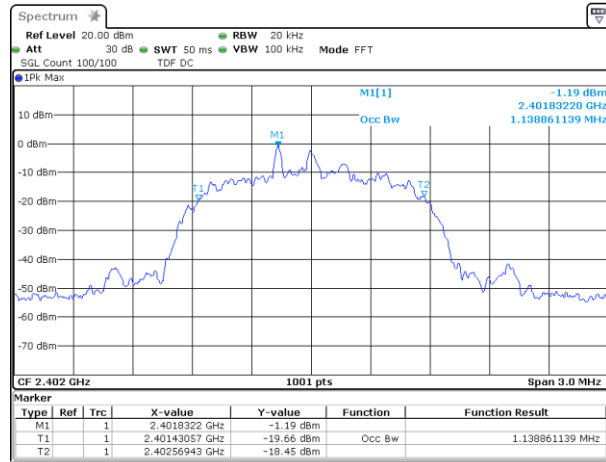
Date: 31.JUL.2026 17:19:28

NTNV_2DH5_2480_2Mbps

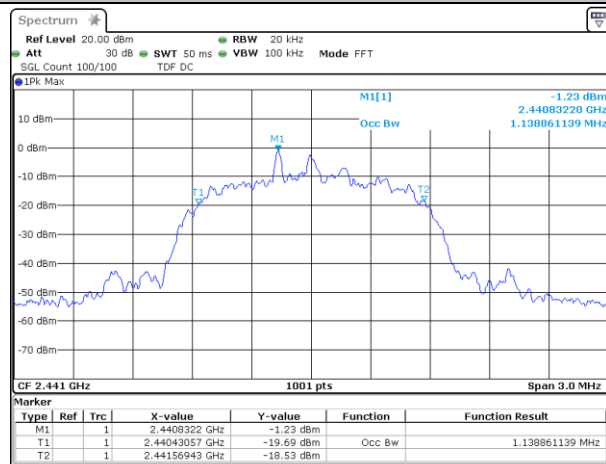


Date: 31.JUL.2026 17:21:02

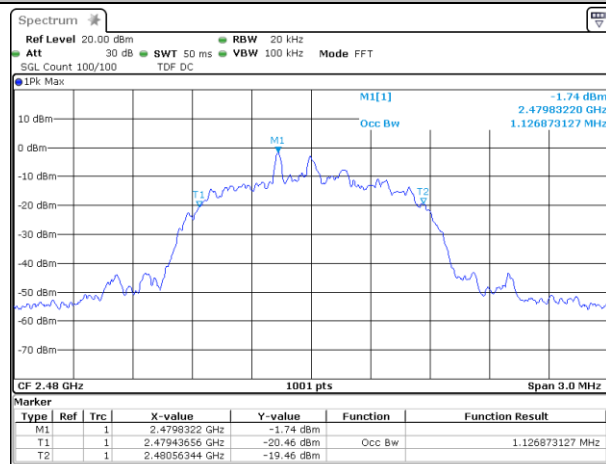
NTNV_3DH5_2402_3Mbps



NTNV_3DH5_2441_3Mbps



NTNV_3DH5_2480_3Mbps

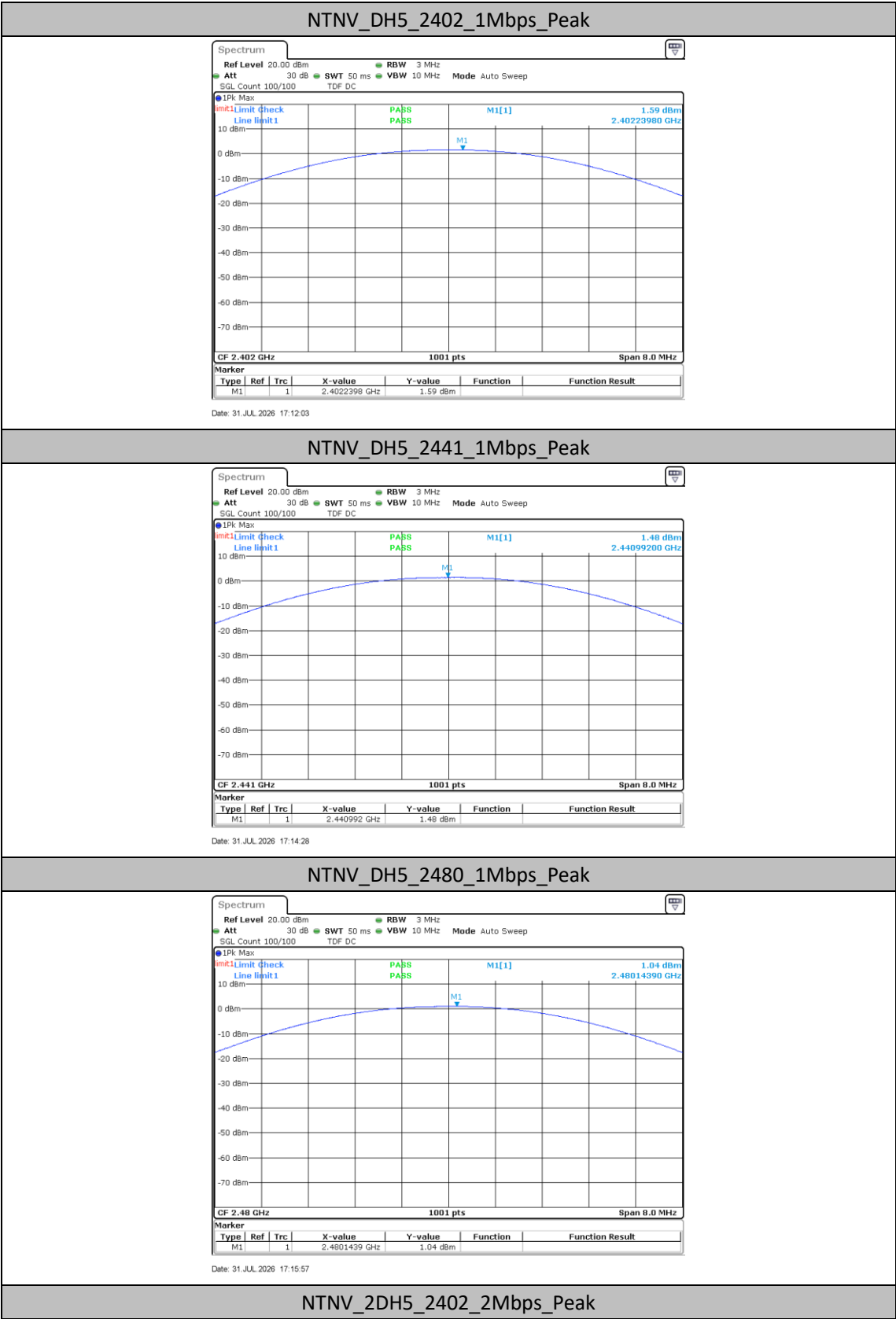


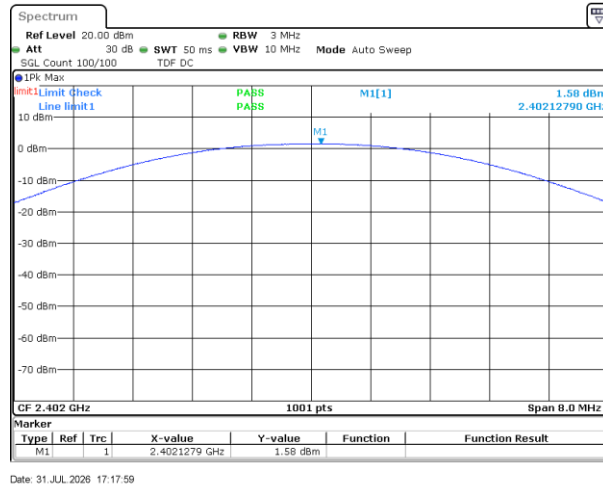
Appendix C: Maximum conducted output power

Test Result

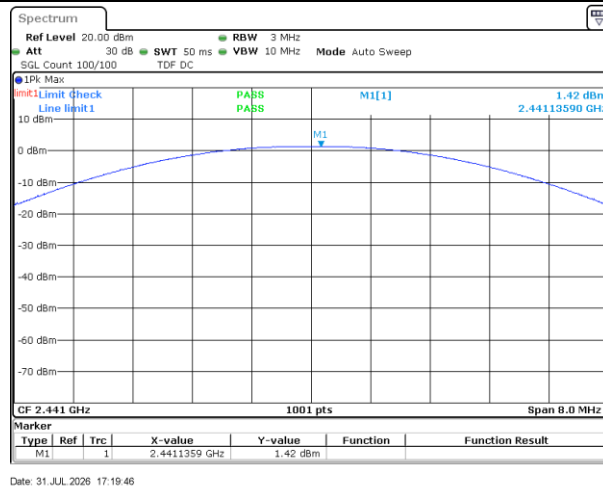
NO.	Test Condition	Test Mode	Freq (MHz)	Detector	Antenna	Conducted Peak Power (dBm)	Conducted Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
1	NTNV	DH5	2402	Peak	ANT1	1.59	≤30	0.00	1.59	≤36	Pass
2	NTNV	DH5	2441	Peak	ANT1	1.48	≤30	0.00	1.48	≤36	Pass
3	NTNV	DH5	2480	Peak	ANT1	1.04	≤30	0.00	1.04	≤36	Pass
4	NTNV	2DH5	2402	Peak	ANT1	1.58	≤30	0.00	1.58	≤36	Pass
5	NTNV	2DH5	2441	Peak	ANT1	1.42	≤30	0.00	1.42	≤36	Pass
6	NTNV	2DH5	2480	Peak	ANT1	1.00	≤30	0.00	1.00	≤36	Pass
7	NTNV	3DH5	2402	Peak	ANT1	1.98	≤30	0.00	1.98	≤36	Pass
8	NTNV	3DH5	2441	Peak	ANT1	1.84	≤30	0.00	1.84	≤36	Pass
9	NTNV	3DH5	2480	Peak	ANT1	1.34	≤30	0.00	1.34	≤36	Pass

Test Graphs

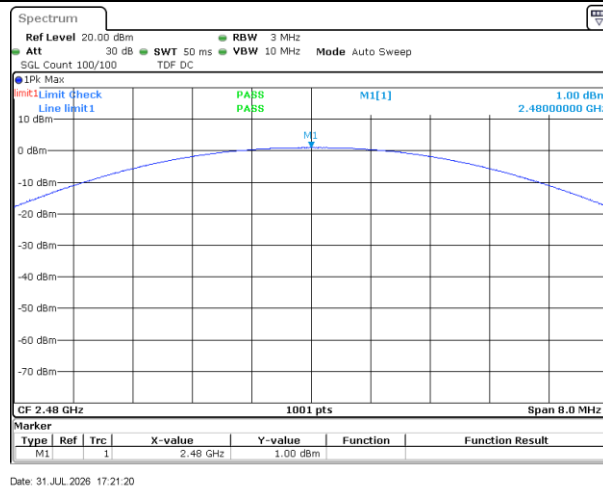




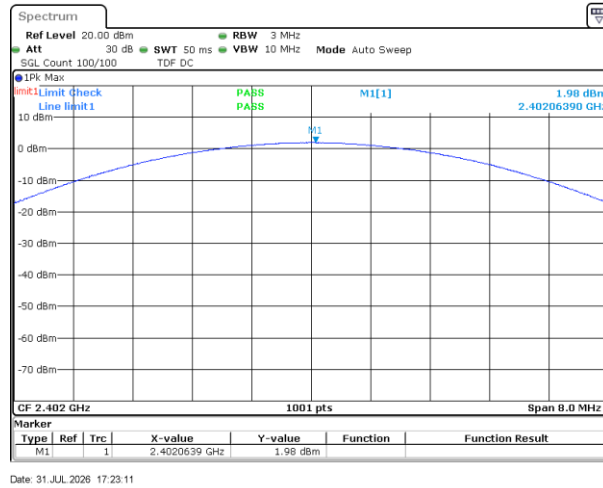
NTNV_2DH5_2441_2Mbps_Peak



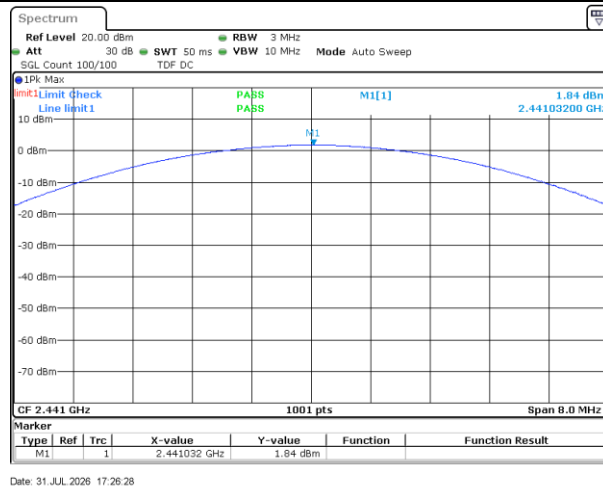
NTNV_2DH5_2480_2Mbps_Peak



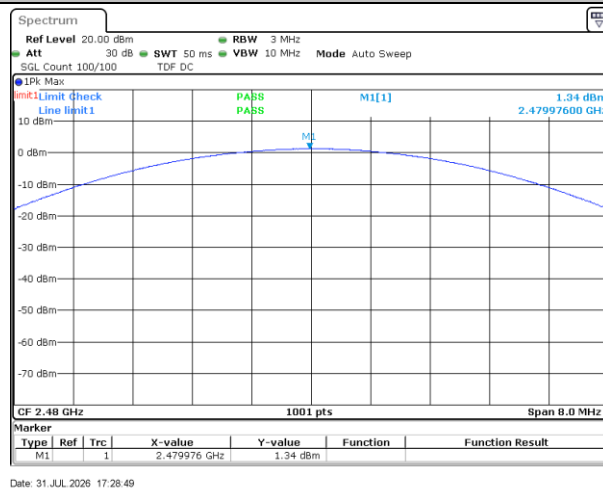
NTNV_3DH5_2402_3Mbps_Peak



NTNV_3DH5_2441_3Mbps_Peak



NTNV_3DH5_2480_3Mbps_Peak

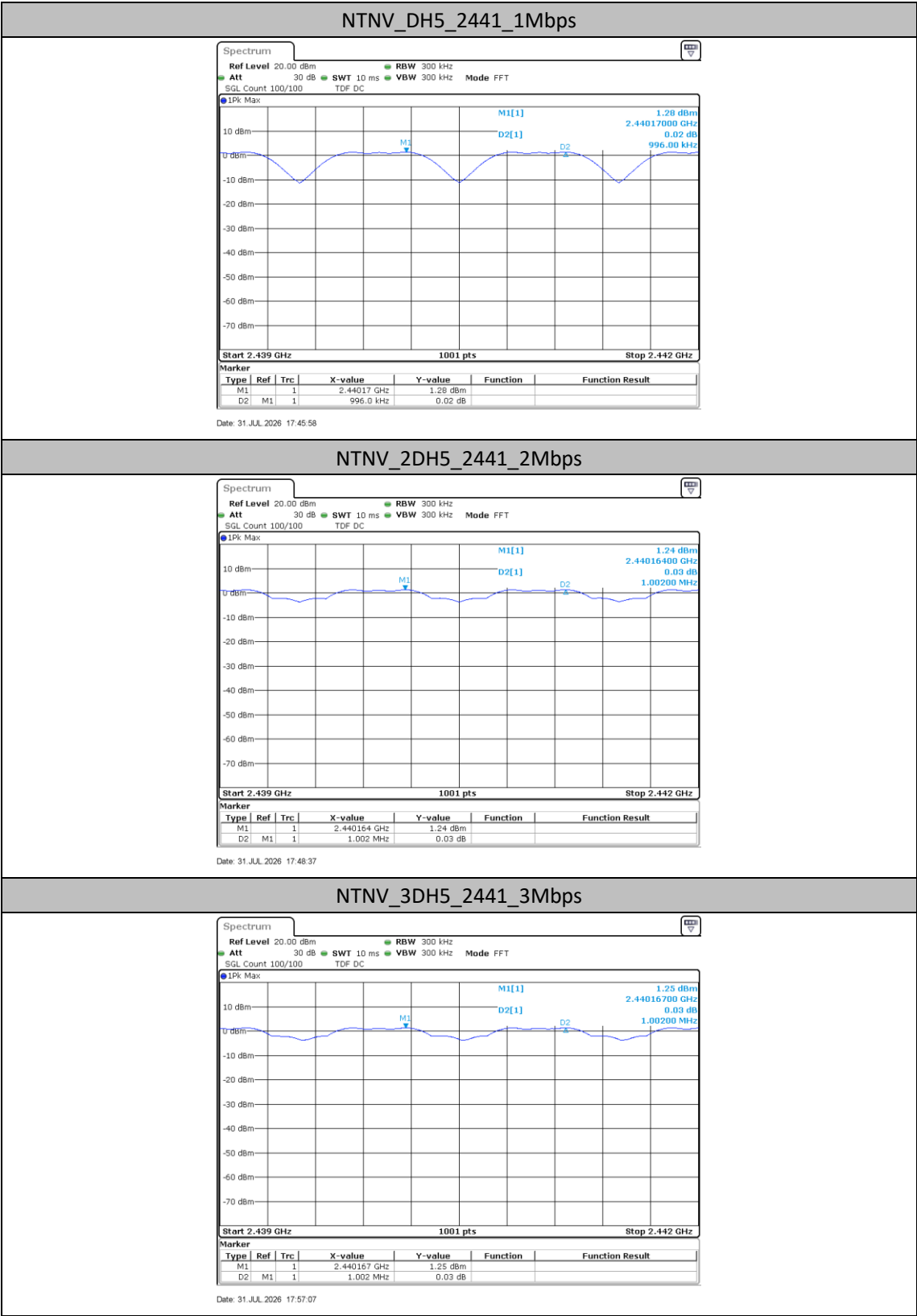


Appendix D: Carrier frequency separation

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	≥ 0.83	Pass
3	NTNV	3DH5 FHSS	2441	3Mbps	ANT1	1.00	≥ 0.8	Pass

Test Graphs

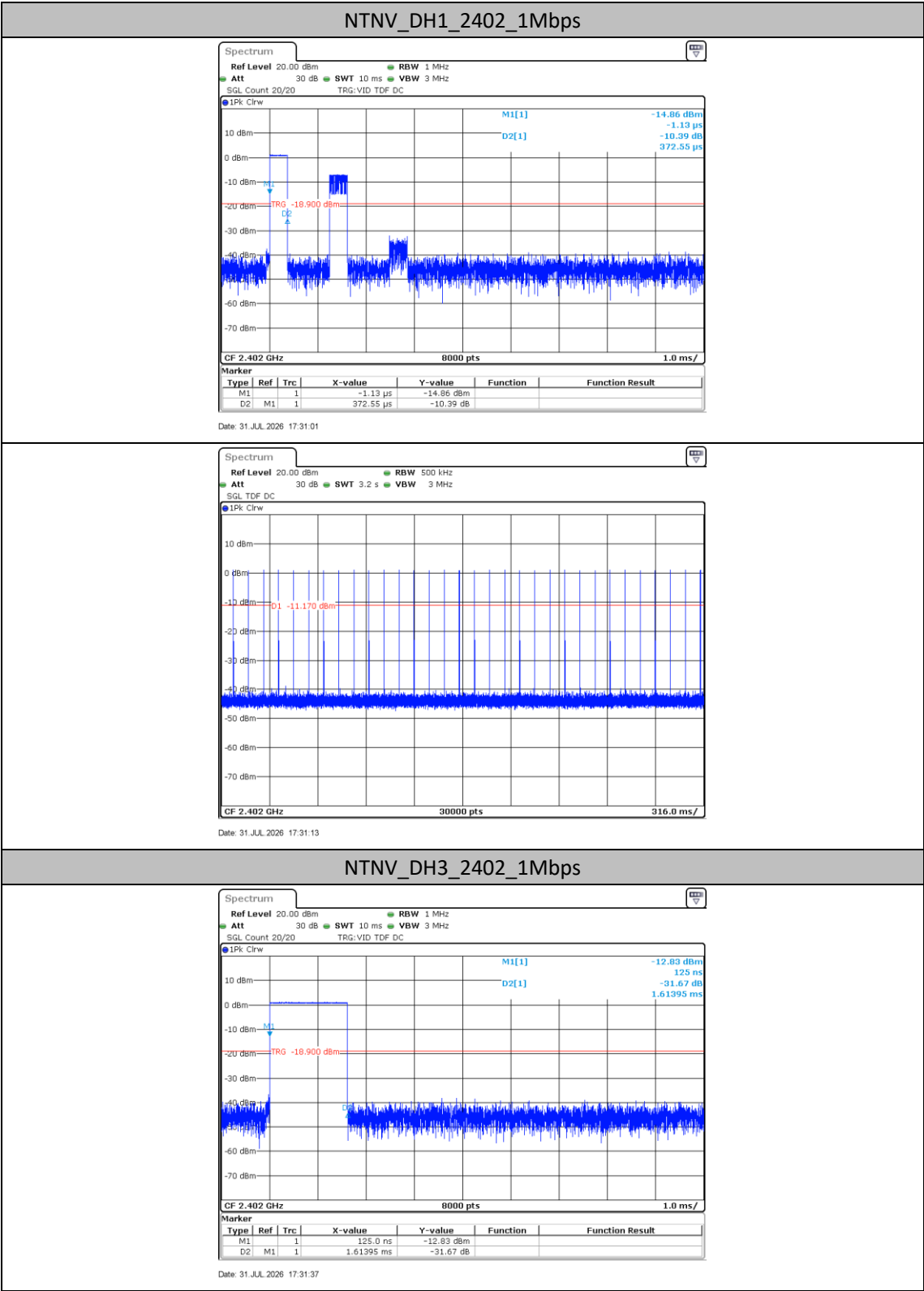


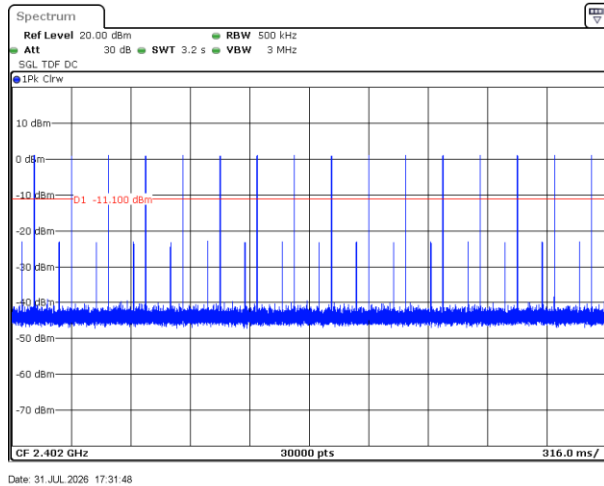
Appendix E: Time of occupancy

Test Result

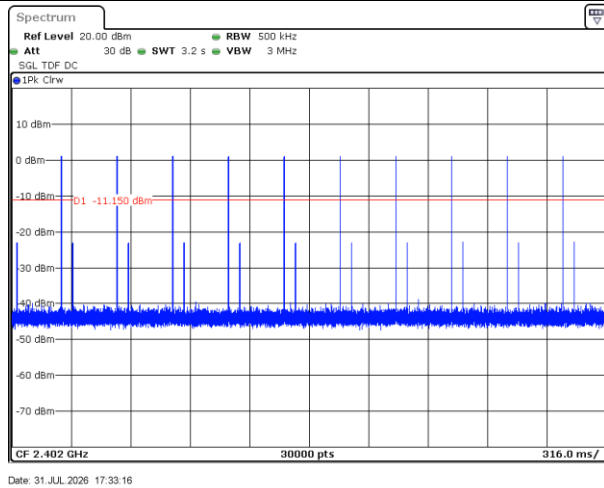
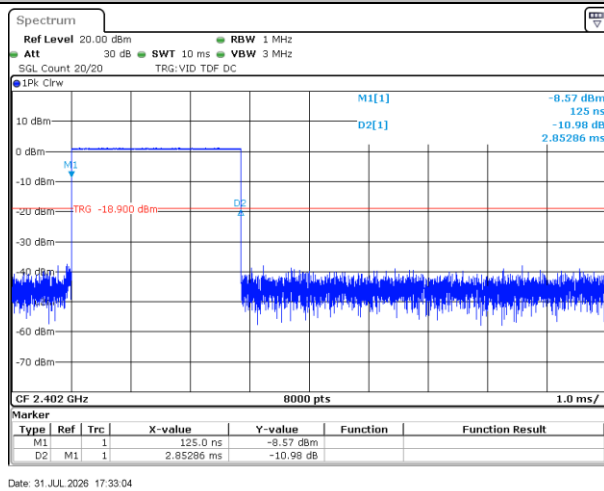
NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Burst Width (ms)	Total Hops	Dwell Time (s)	Limit (s)	Verdict
1	NTNV	DH1 FHSS	2402	1Mbps	ANT1	0.37	32	0.12	≤0.4	Pass
2	NTNV	DH3 FHSS	2402	1Mbps	ANT1	1.61	16	0.26	≤0.4	Pass
3	NTNV	DH5 FHSS	2402	1Mbps	ANT1	2.85	10	0.29	≤0.4	Pass
4	NTNV	2DH1 FHSS	2402	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	10	0.29	≤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

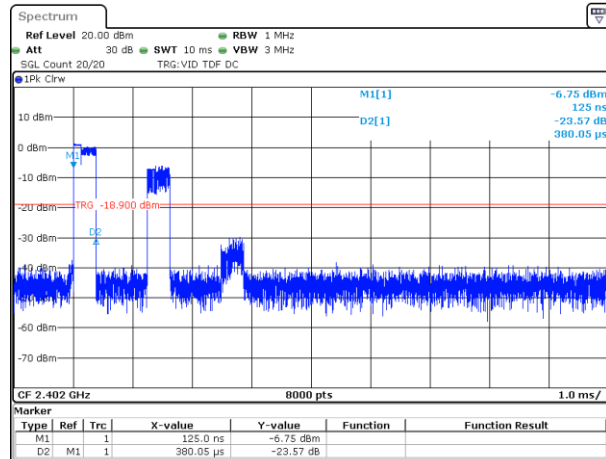




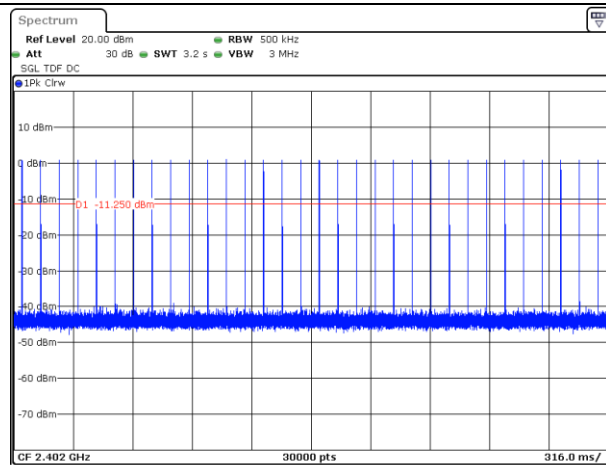
NTNV_DH5_2402_1Mbps



NTNV_2DH1_2402_2Mbps

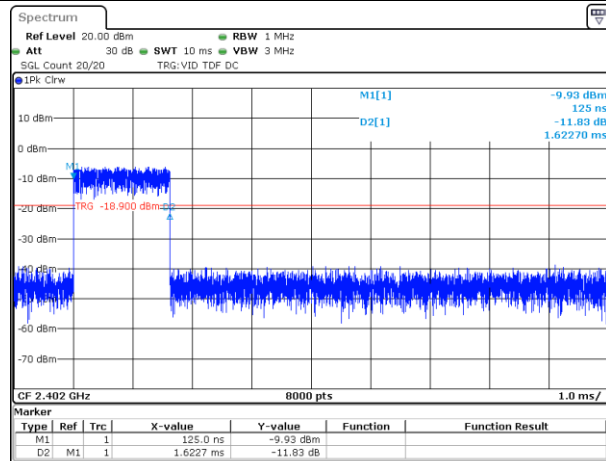


Date: 31.JUL.2026 17:35:08

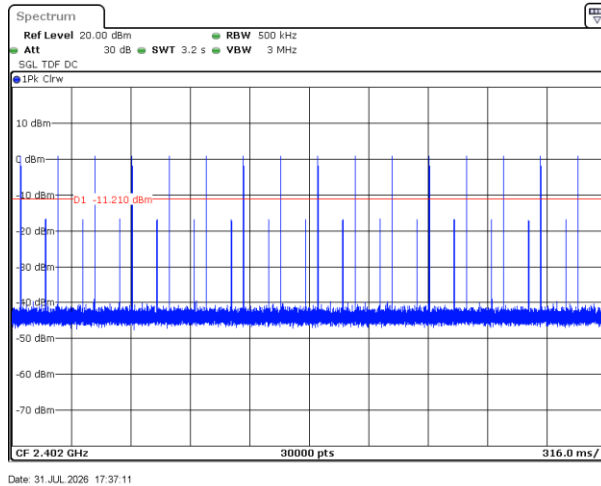


Date: 31.JUL.2026 17:35:20

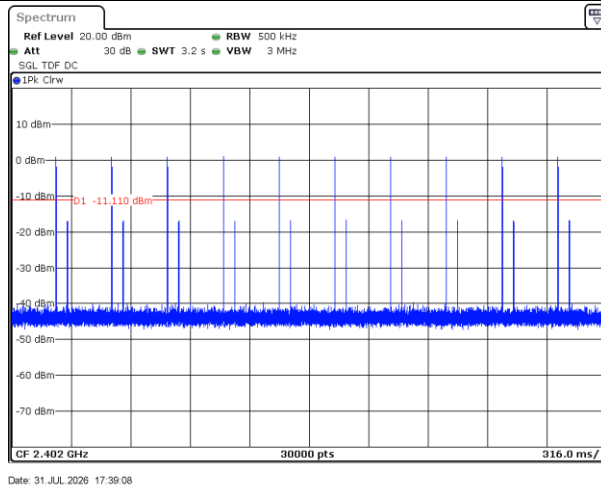
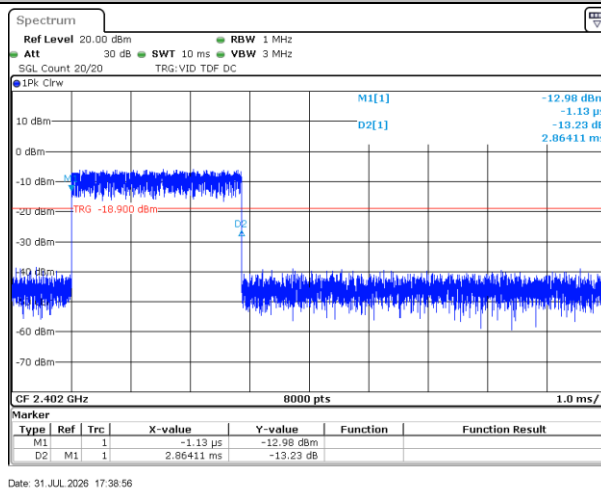
NTNV_2DH3_2402_2Mbps



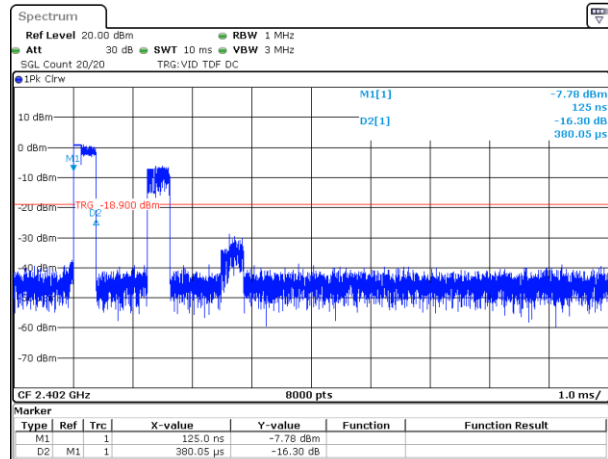
Date: 31.JUL.2026 17:37:00



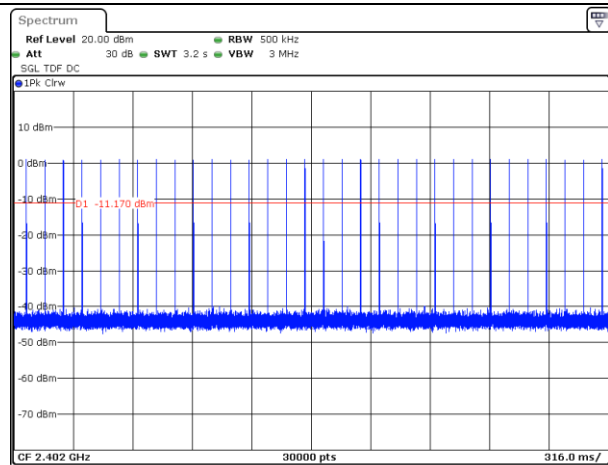
NTNV_2DH5_2402_2Mbps



NTNV_3DH1_2402_3Mbps

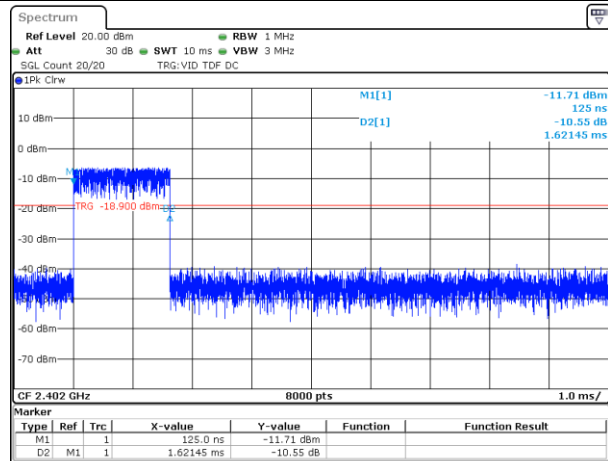


Date: 31.JUL.2026 17:40:12

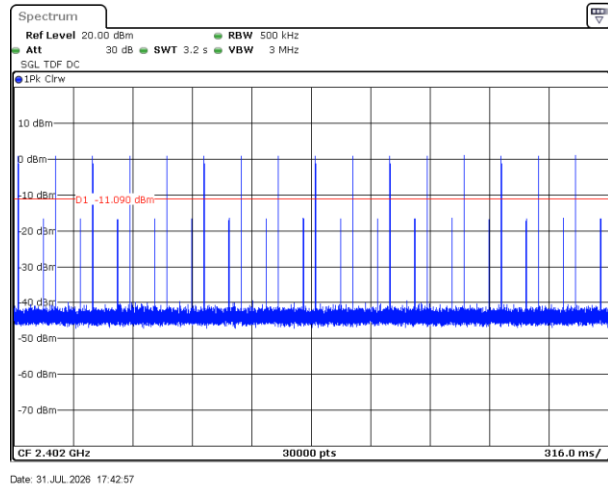


Date: 31.JUL.2026 17:40:23

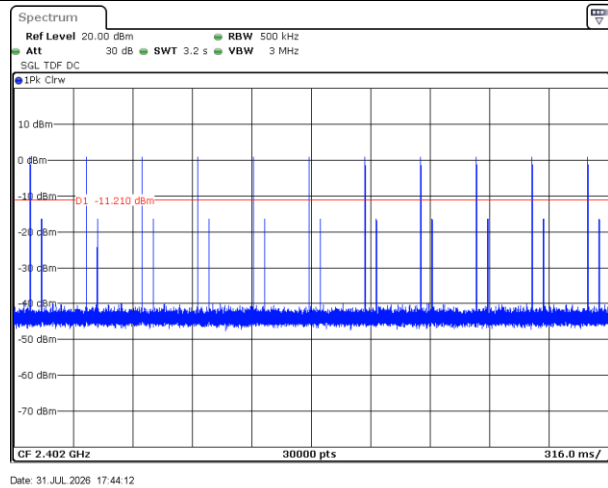
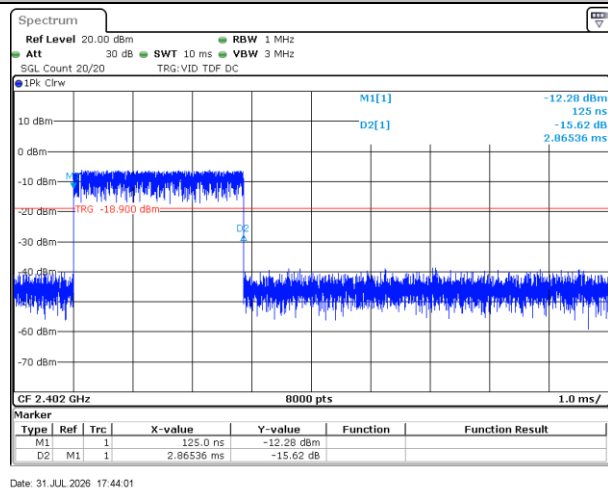
NTNV_3DH3_2402_3Mbps



Date: 31.JUL.2026 17:42:48



NTNV_3DH5_2402_3Mbps



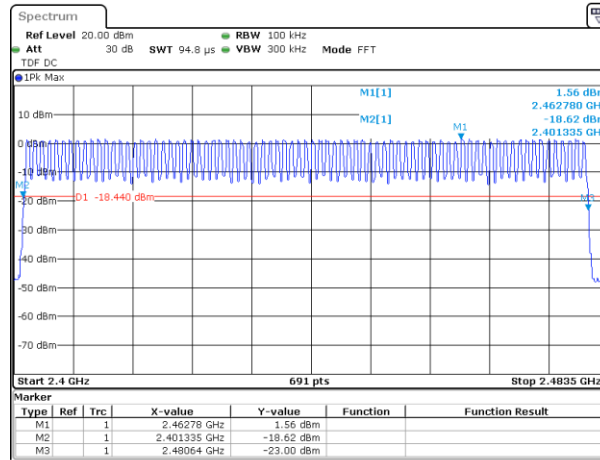
Appendix F: Number of hopping channels

Test Result

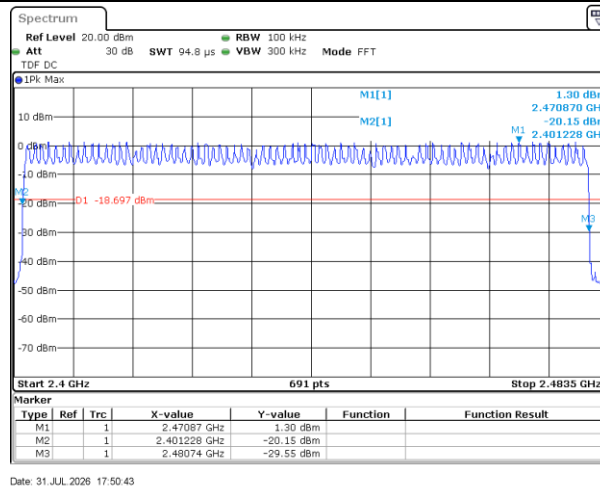
NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Result (Num)	Limit (Num)	Verdict
1	NTNV	DH5 FHSS	2441	1Mbps	ANT1	79	≥ 15	Pass
2	NTNV	2DH5 FHSS	2441	2Mbps	ANT1	79	≥ 15	Pass
3	NTNV	3DH5 FHSS	2441	3Mbps	ANT1	79	≥ 15	Pass

Test Graphs

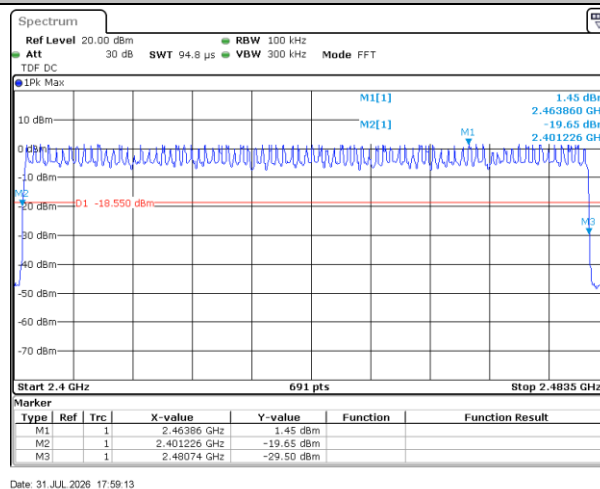
NTNV_DH5_2441_1Mbps



NTNV_2DH5_2441_2Mbps



NTNV_3DH5_2441_3Mbps



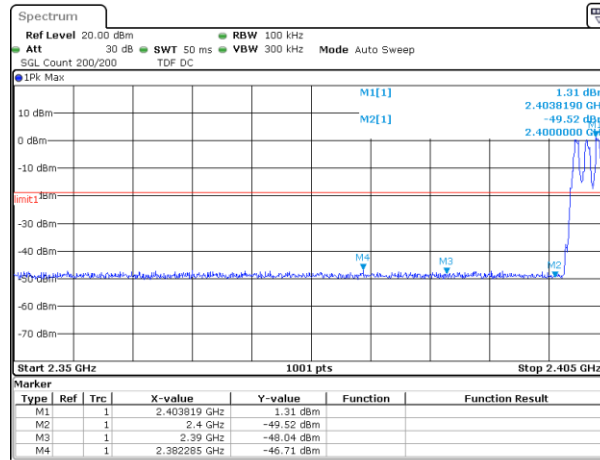
Appendix G: Band edge measurements

Test Result

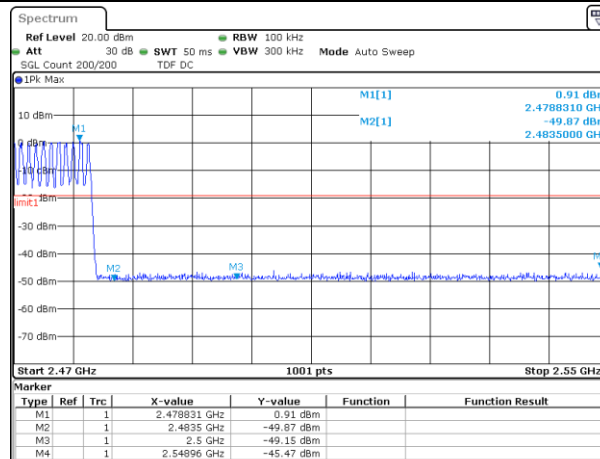
NO.	Test Condition	Test Mode	Freq (MHz)	Rate	Antenna	Reference (dBm)	Emission Level (dBm)	Limit (dBm)	Verdict
7	NTNV	DH5 FHSS	2402	1Mbps	ANT1	1.31	-46.71	≤-18.69	Pass
8	NTNV	DH5 FHSS	2480	1Mbps	ANT1	0.91	-45.47	≤-19.09	Pass
9	NTNV	2DH5 FHSS	2402	1Mbps	ANT1	-4.5	-46.16	≤-24.5	Pass
10	NTNV	2DH5 FHSS	2480	1Mbps	ANT1	-0.12	-46.07	≤-20.12	Pass
11	NTNV	3DH5 FHSS	2402	1Mbps	ANT1	-0.08	-46.58	≤-20.08	Pass
12	NTNV	3DH5 FHSS	2480	1Mbps	ANT1	1.09	-46.43	≤-18.91	Pass
1	NTNV	DH5	2402	1Mbps	ANT1	0.95	-47.36	≤-19.05	Pass
2	NTNV	DH5	2480	1Mbps	ANT1	-0.07	-47.00	≤-20.07	Pass
3	NTNV	2DH5	2402	2Mbps	ANT1	0.47	-48.14	≤-19.53	Pass
4	NTNV	2DH5	2480	2Mbps	ANT1	-4.36	-47.84	≤-24.36	Pass
5	NTNV	3DH5	2402	3Mbps	ANT1	-0.99	-47.18	≤-20.99	Pass
6	NTNV	3DH5	2480	3Mbps	ANT1	0.5	-47.76	≤-19.5	Pass

Test Graphs

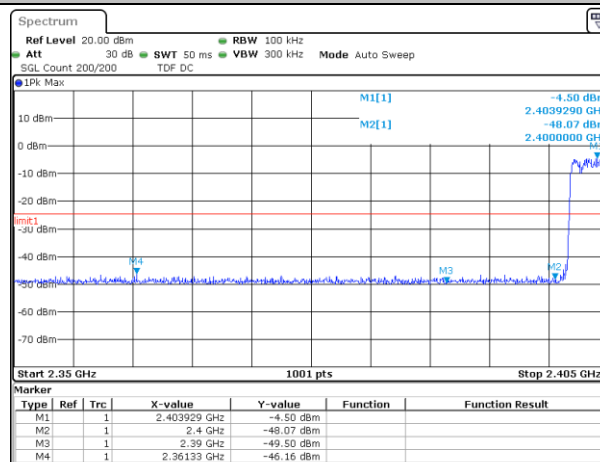
NTNV_DH5_2402_1Mbps



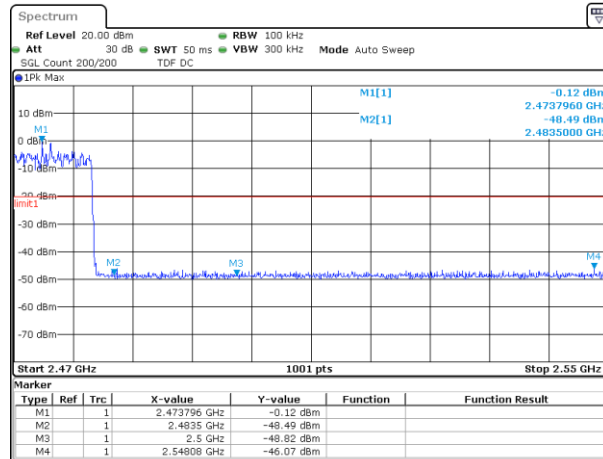
NTNV_DH5_2480_1Mbps



NTNV_2DH5_2402_1Mbps

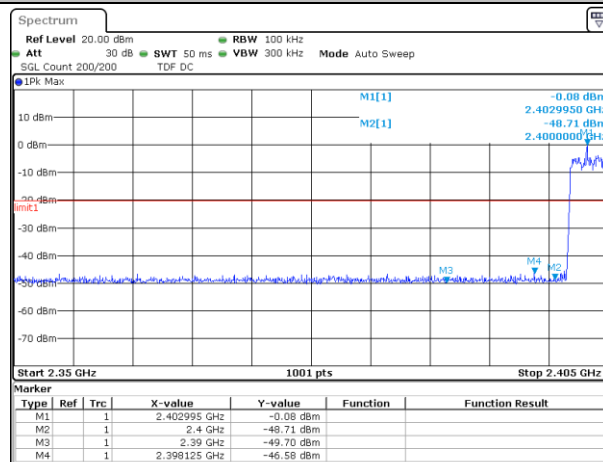


NTNV_2DH5_2480_1Mbps



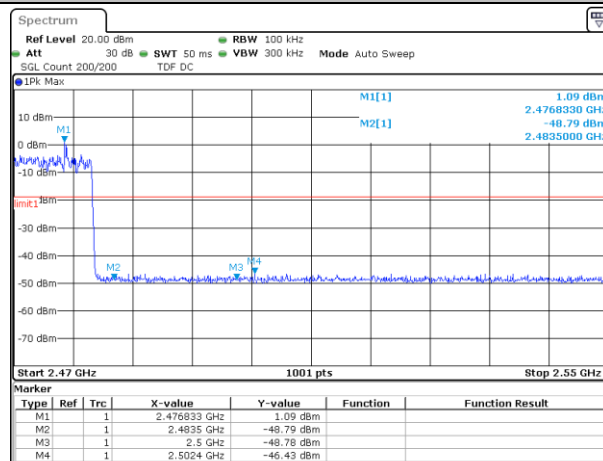
Date: 31.JUL.2026 18:10:29

NTNV_3DH5_2402_1Mbps



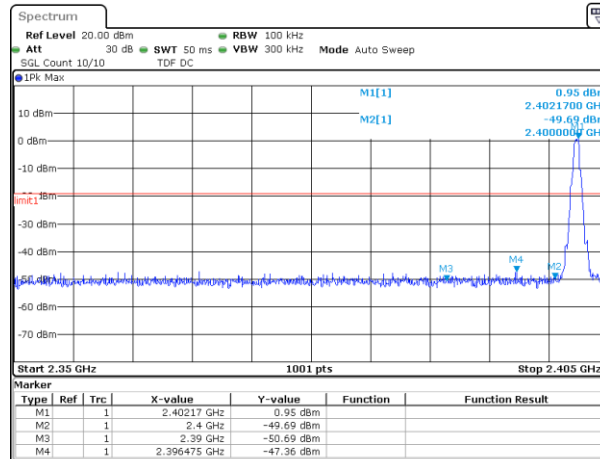
Date: 31.JUL.2026 18:11:39

NTNV_3DH5_2480_1Mbps



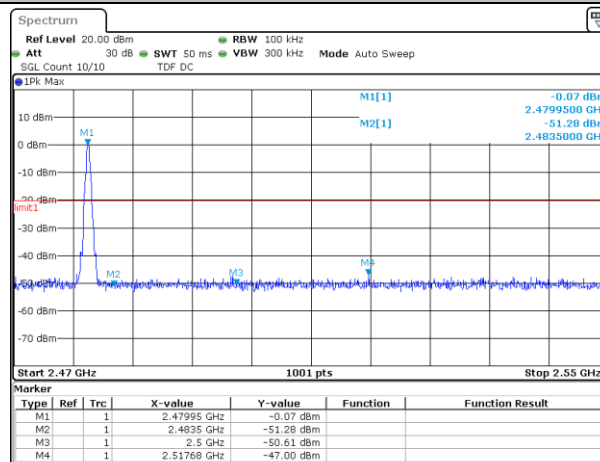
Date: 31.JUL.2026 18:12:33

NTNV_DH5_2402_1Mbps



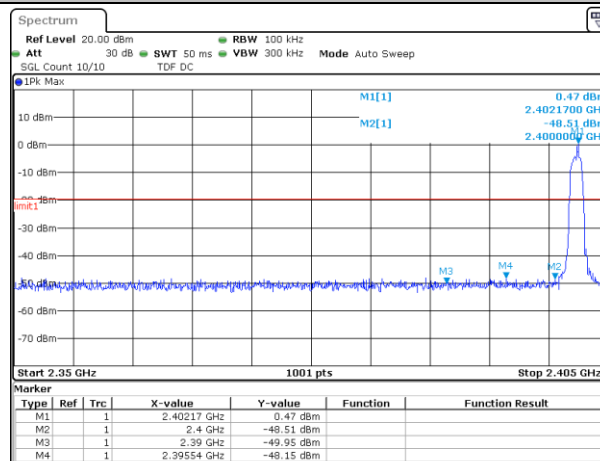
Date: 31.JUL.2026 17:12:21

NTNV_DH5_2480_1Mbps



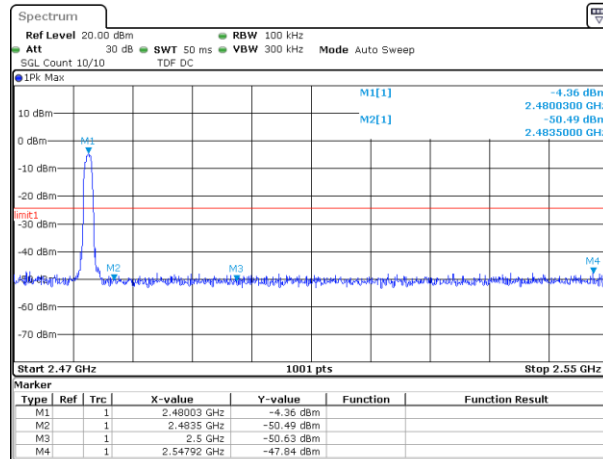
Date: 31.JUL.2026 17:16:15

NTNV_2DH5_2402_2Mbps



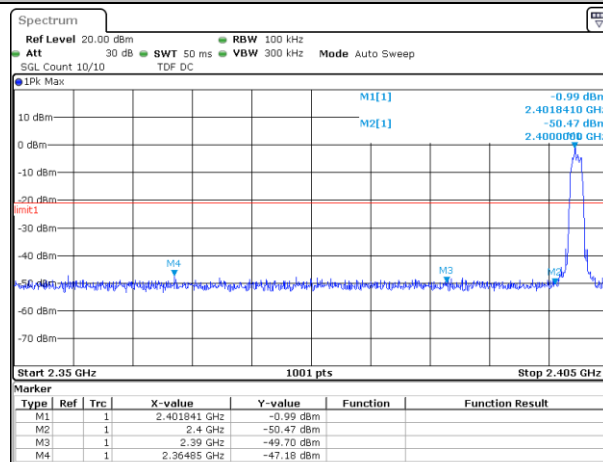
Date: 31.JUL.2026 17:18:16

NTNV_2DH5_2480_2Mbps



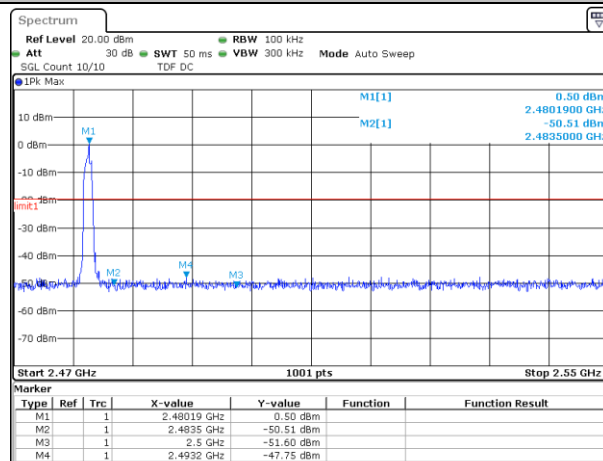
Date: 31.JUL.2026 17:21:38

NTNV_3DH5_2402_3Mbps



Date: 31.JUL.2026 17:23:29

NTNV_3DH5_2480_3Mbps



Date: 31.JUL.2026 17:29:06

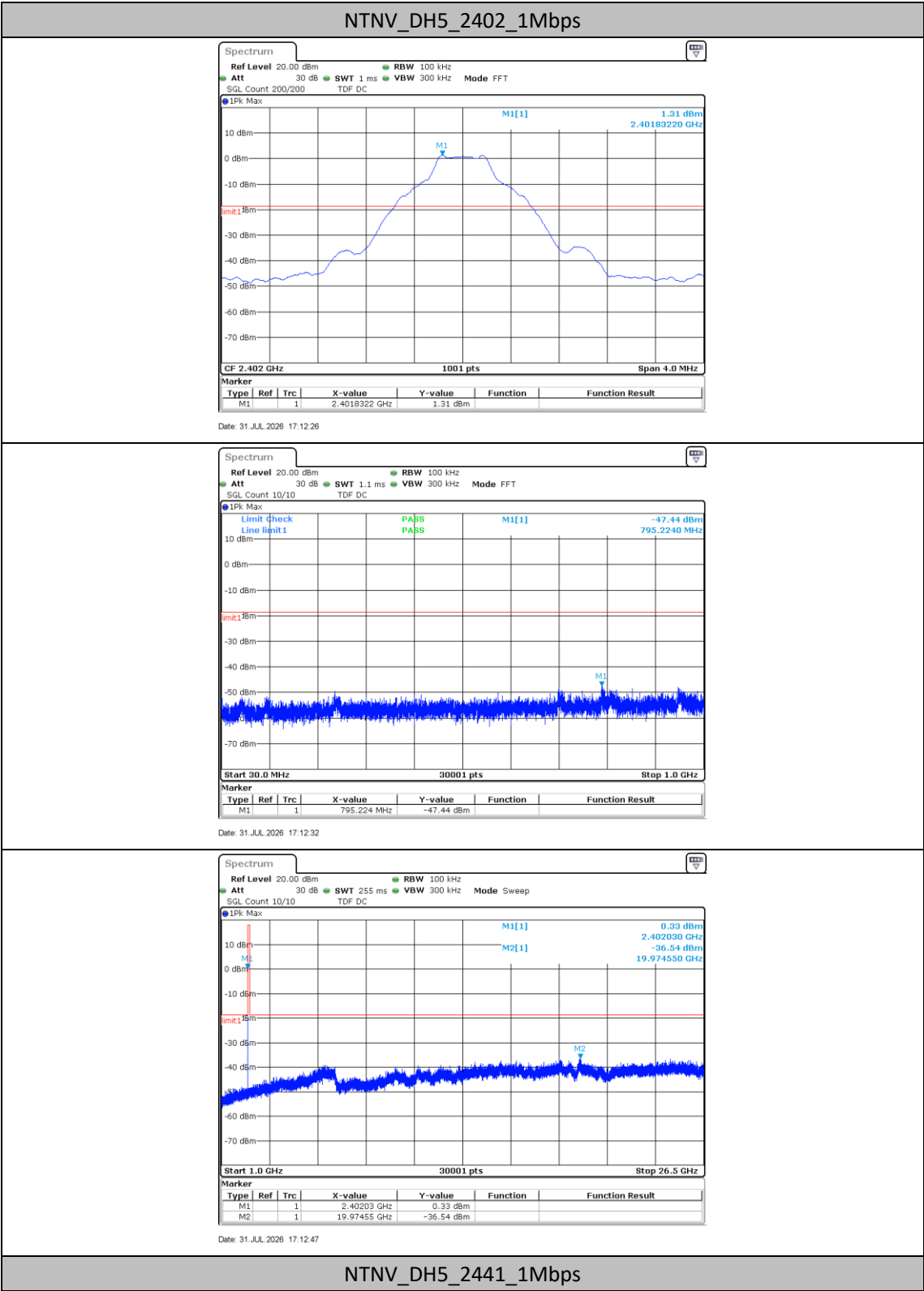
Appendix H: Conducted Spurious Emission

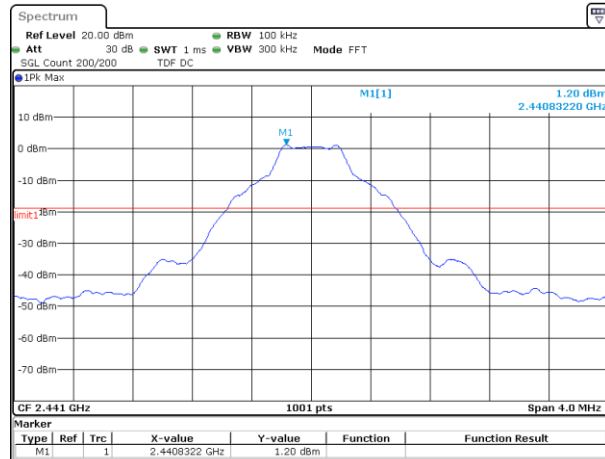
Test Result

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	1.31	/	/
						30~1000	0.1	-47.44	≤-18.69	Pass
						1000~26500	0.1	-36.54	≤-18.69	Pass
2	NTNV	DH5	2441	1Mbps	ANT1	Reference	0.1	1.2	/	/
						30~1000	0.1	-47.78	≤-18.80	Pass
						1000~26500	0.1	-36.22	≤-18.80	Pass
3	NTNV	DH5	2480	1Mbps	ANT1	Reference	0.1	0.73	/	/
						30~1000	0.1	-47.91	≤-19.27	Pass
						1000~26500	0.1	-36.21	≤-19.27	Pass
4	NTNV	2DH5	2402	2Mbps	ANT1	Reference	0.1	1.19	/	/
						30~1000	0.1	-48.04	≤-18.81	Pass
						1000~26500	0.1	-35.92	≤-18.81	Pass
5	NTNV	2DH5	2441	2Mbps	ANT1	Reference	0.1	1.07	/	/
						30~1000	0.1	-47.72	≤-18.93	Pass
						1000~26500	0.1	-36.83	≤-18.93	Pass
6	NTNV	2DH5	2480	2Mbps	ANT1	Reference	0.1	0.56	/	/
						30~1000	0.1	-47.98	≤-19.44	Pass
						1000~26500	0.1	-36.57	≤-19.44	Pass
7	NTNV	3DH5	2402	3Mbps	ANT1	Reference	0.1	1.32	/	/
						30~1000	0.1	-47.87	≤-18.68	Pass
						1000~26500	0.1	-36.66	≤-18.68	Pass
8	NTNV	3DH5	2441	3Mbps	ANT1	Reference	0.1	1.21	/	/
						30~1000	0.1	-47.27	≤-18.79	Pass
						1000~26500	0.1	-36.98	≤-18.79	Pass
9	NTNV	3DH5	2480	3Mbps	ANT1	Reference	0.1	0.72	/	/

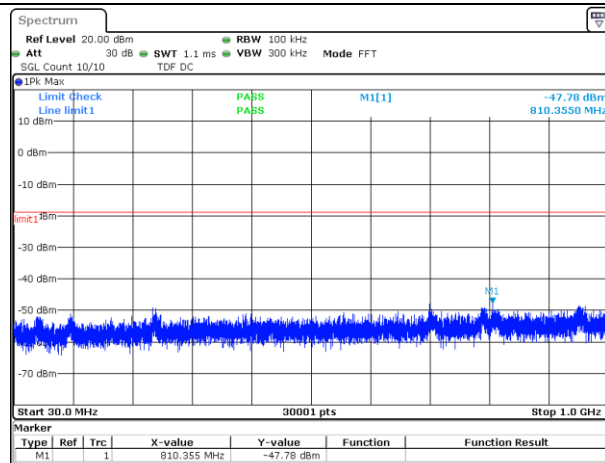
						30~1000	0.1	-46.90	≤ -19.28	Pass
						1000~26500	0.1	-35.83	≤ -19.28	Pass

Test Graphs

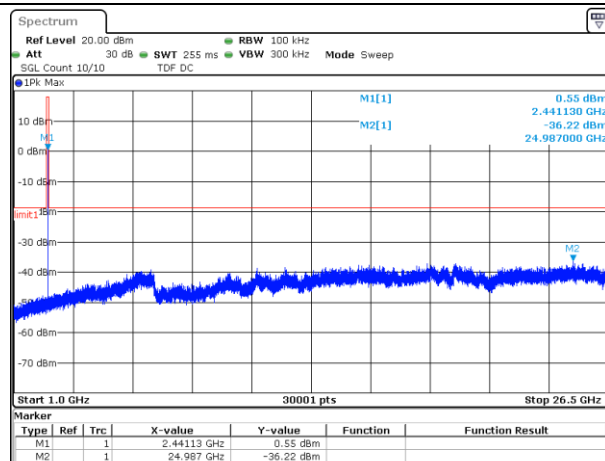




Date: 31 JUL 2026 17:14:47

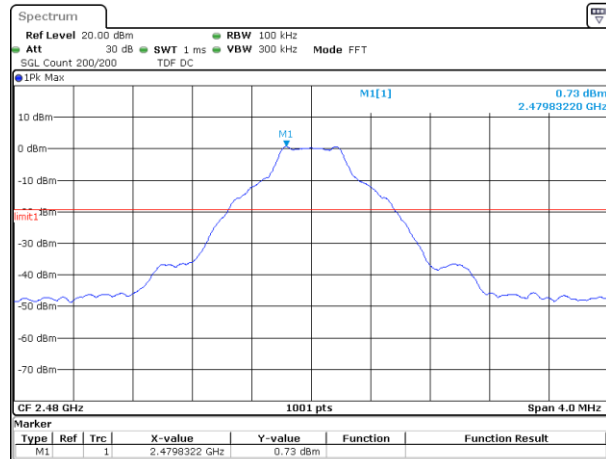


Date: 31 JUL 2026 17:14:53

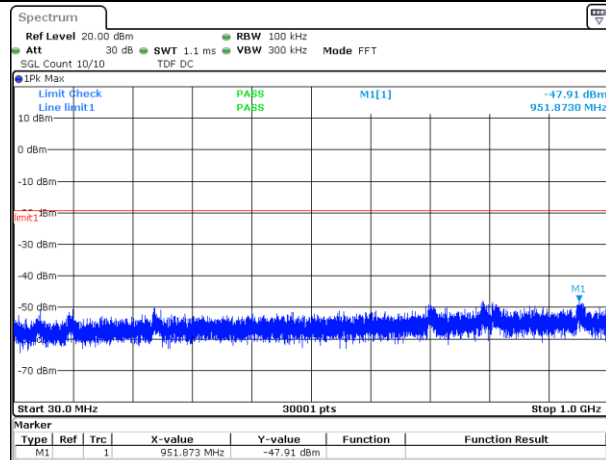


Date: 31 JUL 2026 17:15:07

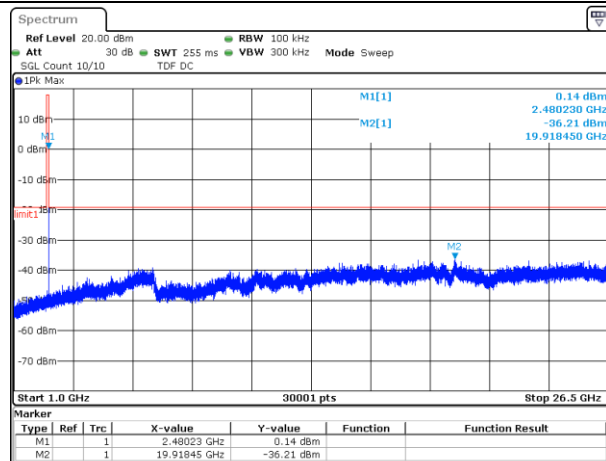
NTNV_DH5_2480_1Mbps



Date: 31 JUL 2026 17:16:20

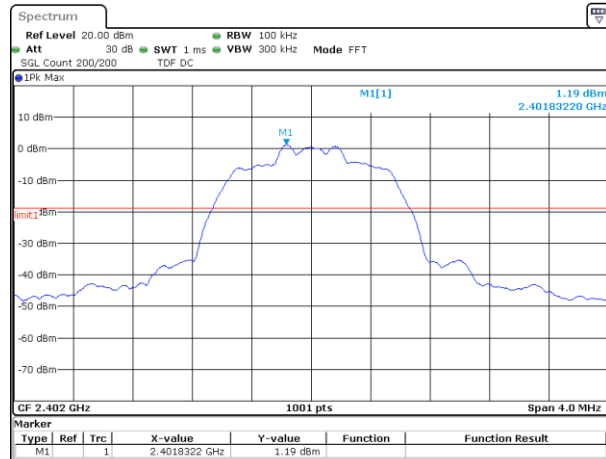


Date: 31 JUL 2026 17:16:26

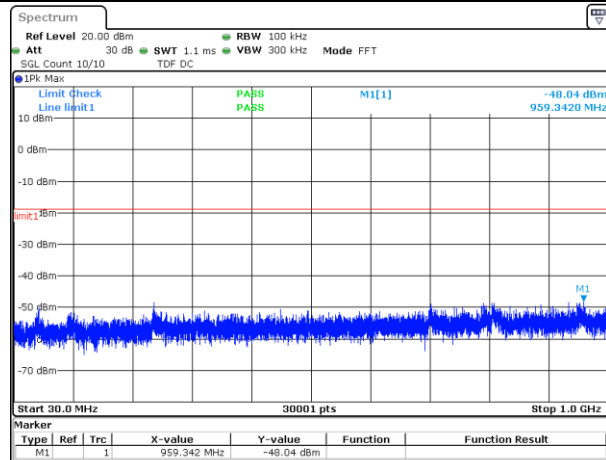


Date: 31 JUL 2026 17:16:40

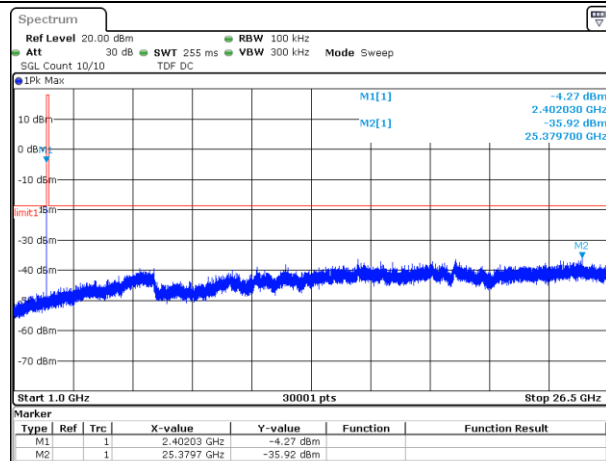
NTNV_2DH5_2402_2Mbps



Date: 31 JUL 2026 17:18:22

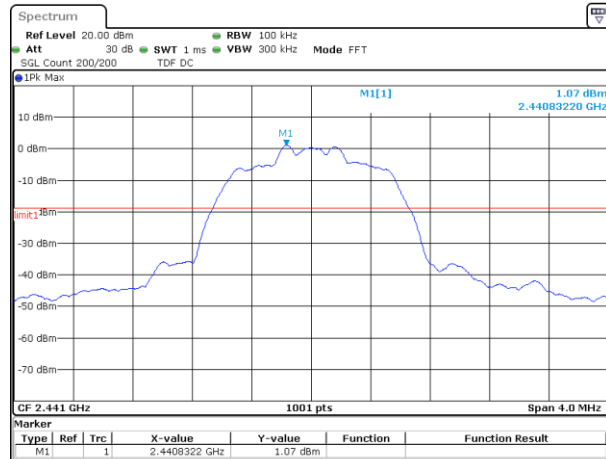


Date: 31 JUL 2026 17:18:28

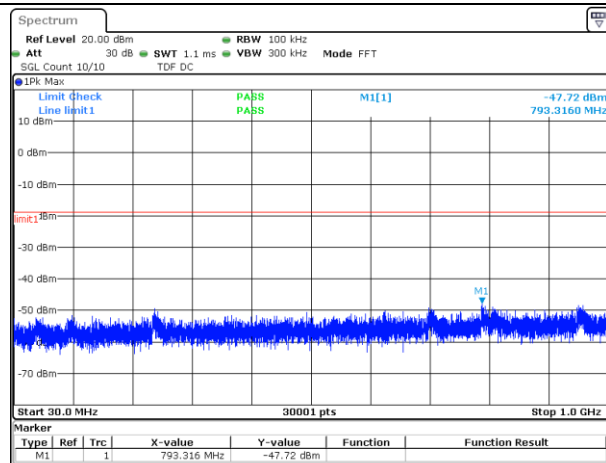


Date: 31 JUL 2026 17:18:42

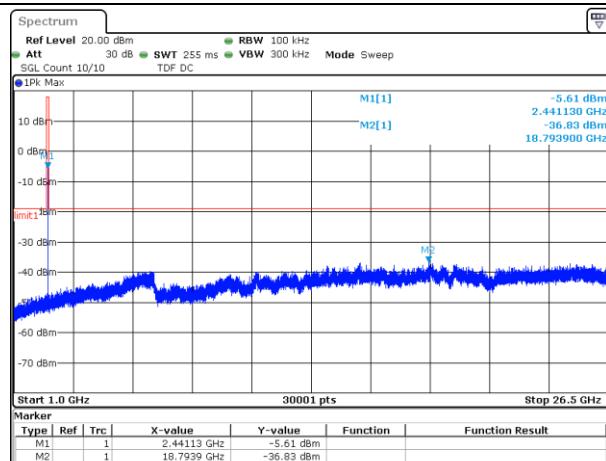
NTNV_2DH5_2441_2Mbps



Date: 31 JUL 2026 17:20:05

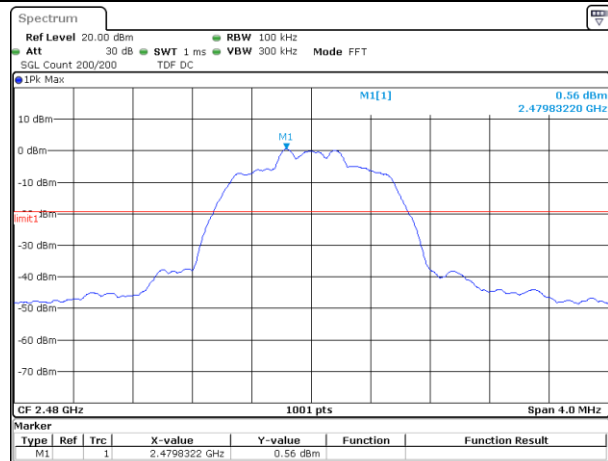


Date: 31 JUL 2026 17:20:11

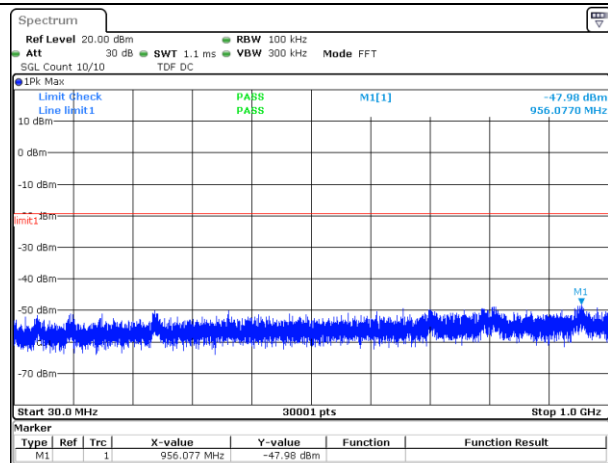


Date: 31 JUL 2026 17:20:26

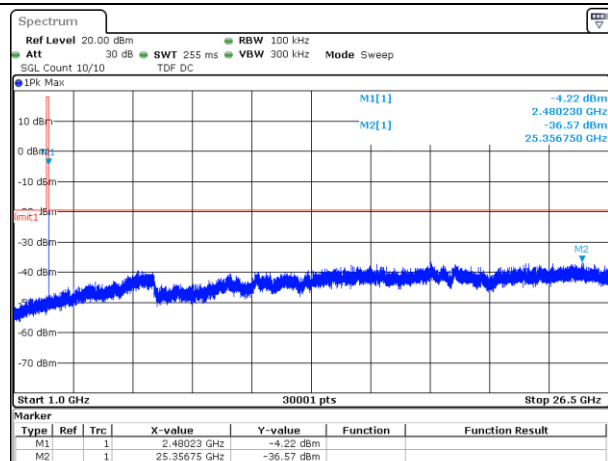
NTNV_2DH5_2480_2Mbps



Date: 31 JUL 2026 17:21:43

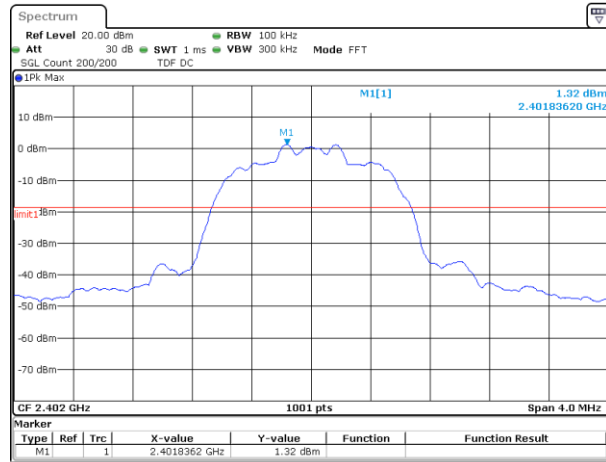


Date: 31 JUL 2026 17:21:43

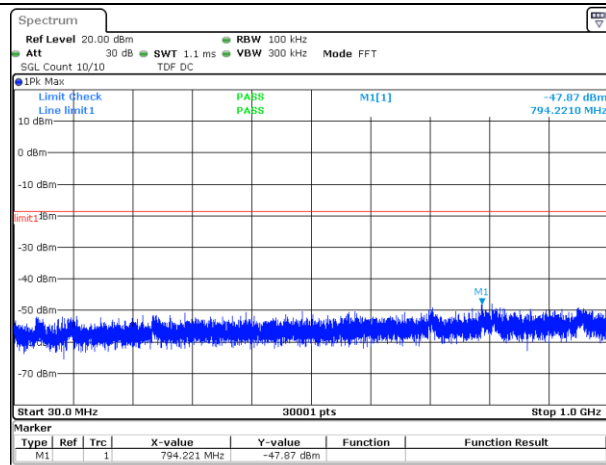


Date: 31 JUL 2026 17:22:04

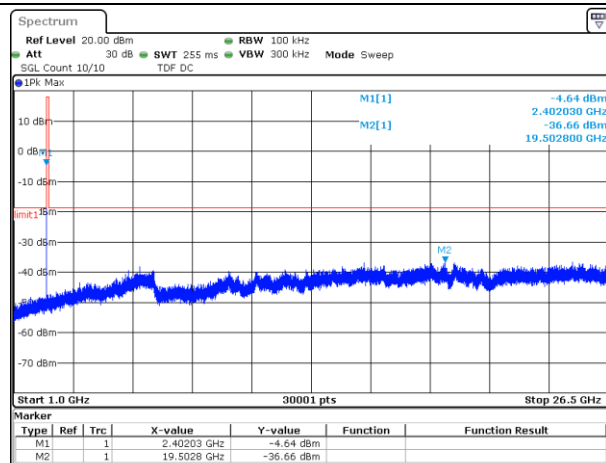
NTNV_3DH5_2402_3Mbps



Date: 31 JUL 2026 17:23:34

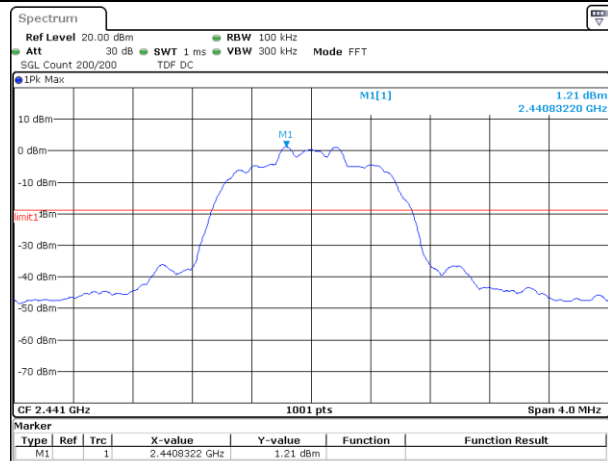


Date: 31 JUL 2026 17:23:41

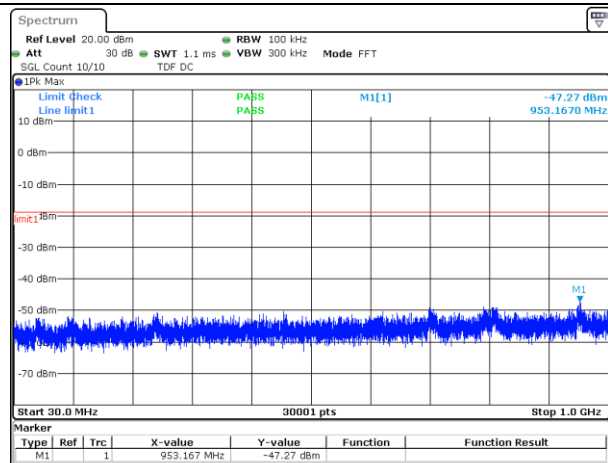


Date: 31 JUL 2026 17:23:55

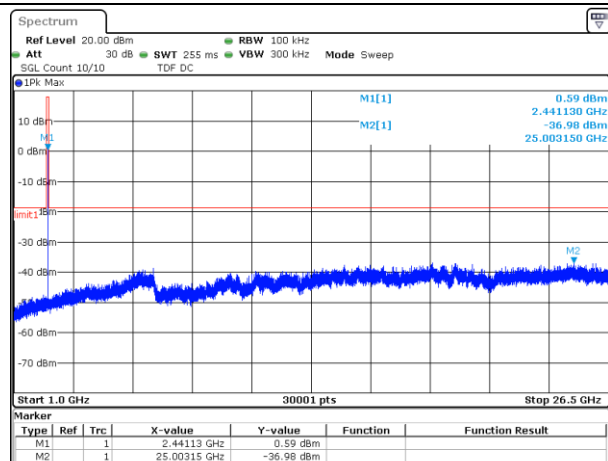
NTNV_3DH5_2441_3Mbps



Date: 31 JUL 2026 17:26:47

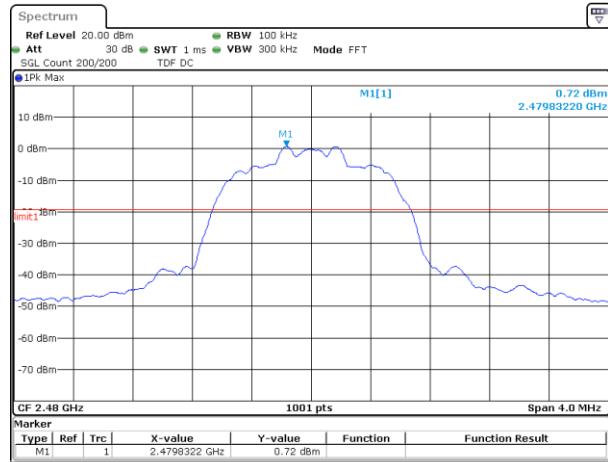


Date: 31 JUL 2026 17:26:53

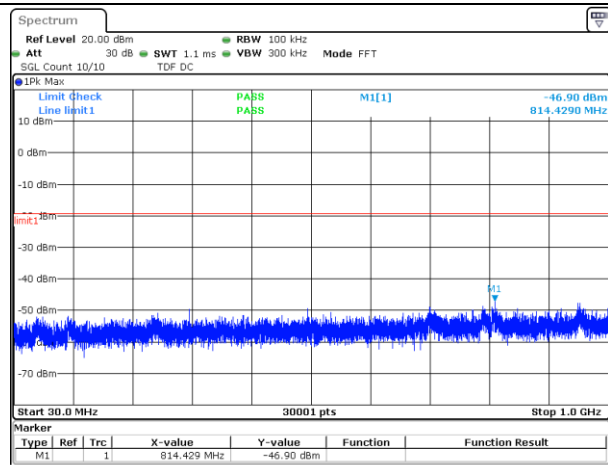


Date: 31 JUL 2026 17:27:07

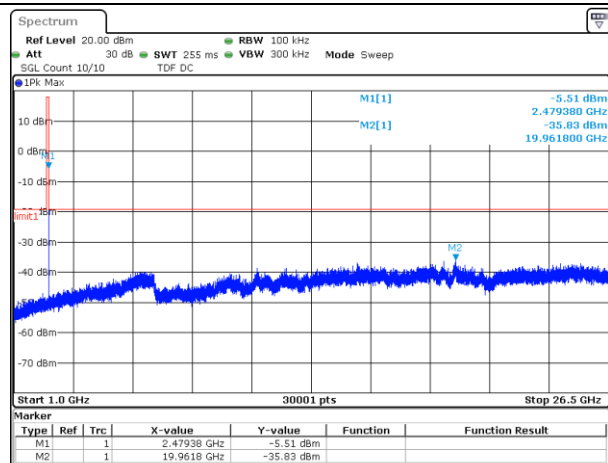
NTNV_3DH5_2480_3Mbps



Date: 31 JUL 2026 17:29:12



Date: 31 JUL 2026 17:29:18



Date: 31 JUL 2026 17:29:32

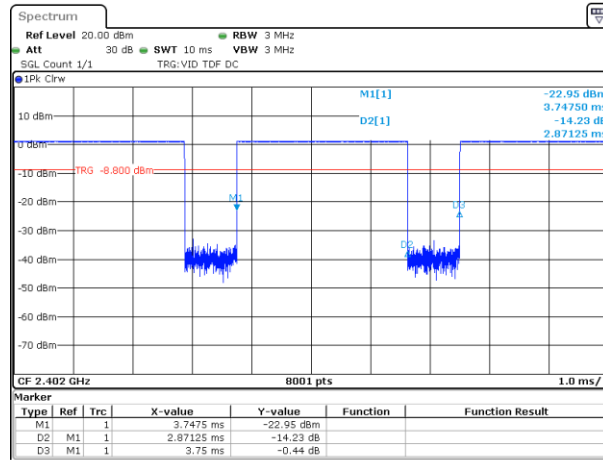
Appendix J: Duty Cycle

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	76.53
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	76.87
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	76.93
9	NTNV	3DH5	2480	3Mbps	ANT1	2.88	3.75	0.77	76.90

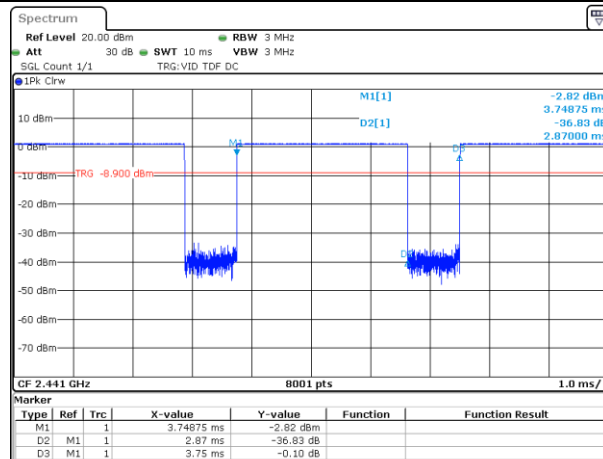
Test Graphs

NTNV_DH5_2402_1Mbps



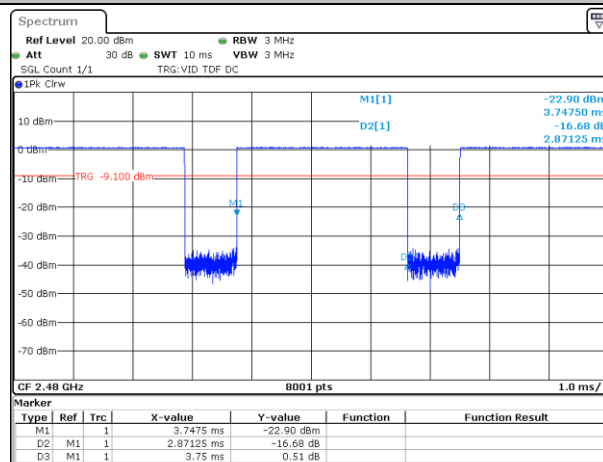
Date: 31.JUL.2026 17:11:55

NTNV_DH5_2441_1Mbps



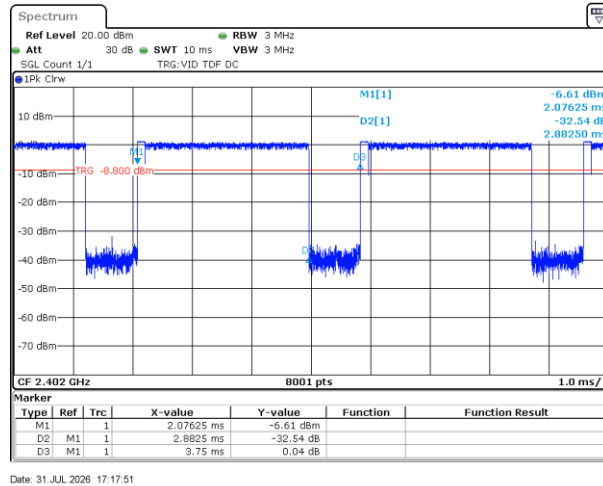
Date: 31.JUL.2026 17:14:19

NTNV_DH5_2480_1Mbps

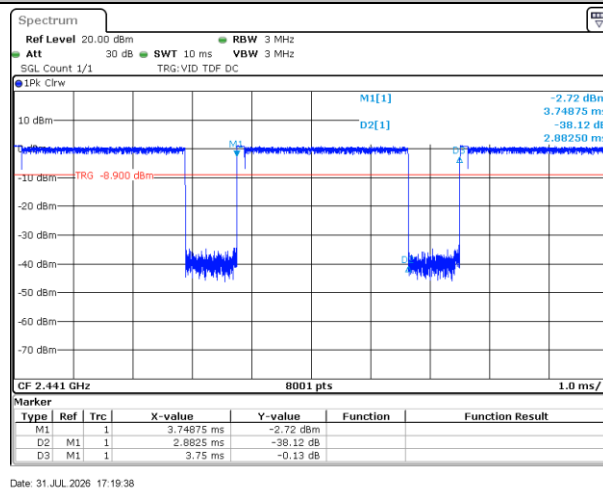


Date: 31.JUL.2026 17:15:49

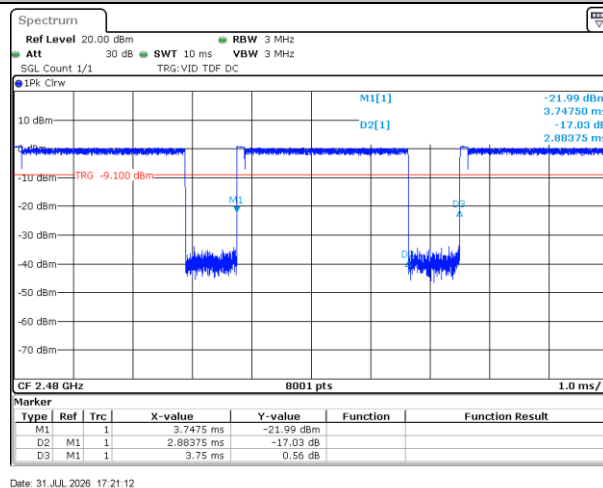
NTNV_2DH5_2402_2Mbps



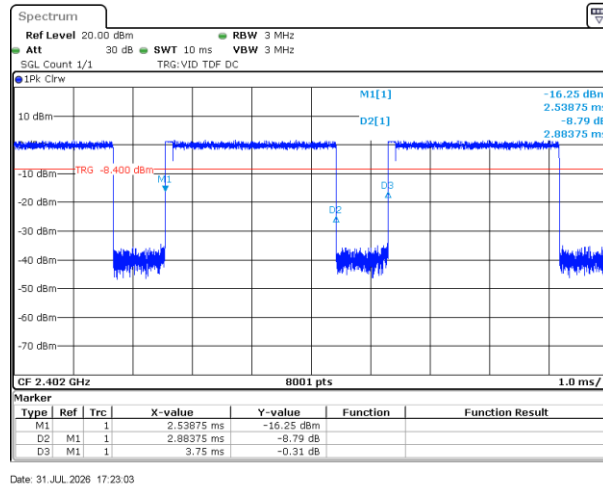
NTNV_2DH5_2441_2Mbps



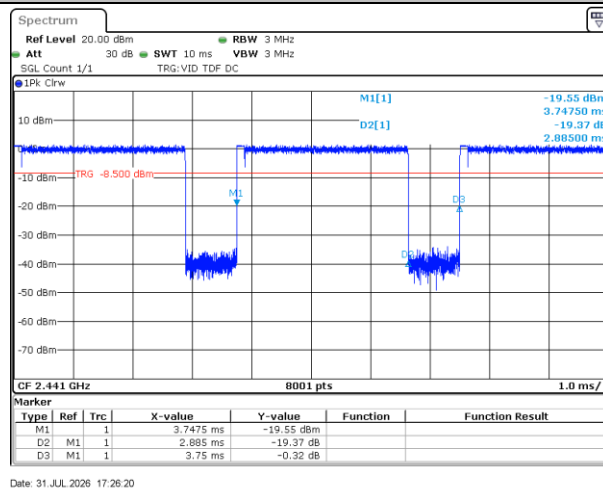
NTNV_2DH5_2480_2Mbps



NTNV_3DH5_2402_3Mbps



NTNV_3DH5_2441_3Mbps



NTNV_3DH5_2480_3Mbps

