

Appendix:2.4G WIFI

Contents

Contents..... 2

1. Duty Cycle..... 3

Test data: 3

Test graphs: 4

2. Maximum Peak Conducted Output Power..... 14

Test data: 14

Test graphs: 15

3. -6dB Bandwidth..... 25

Test data: 25

Test graphs: 26

4. Occupied Channel Bandwidth..... 36

Test data: 36

Test graphs: 37

5. Maximum Power Spectral Density Level..... 47

Test data: 47

Test graphs: 48

7. Band Edge..... 58

Test data: 58

Test graphs: 59

8. Conducted RF Spurious Emission..... 75

Test data: 75

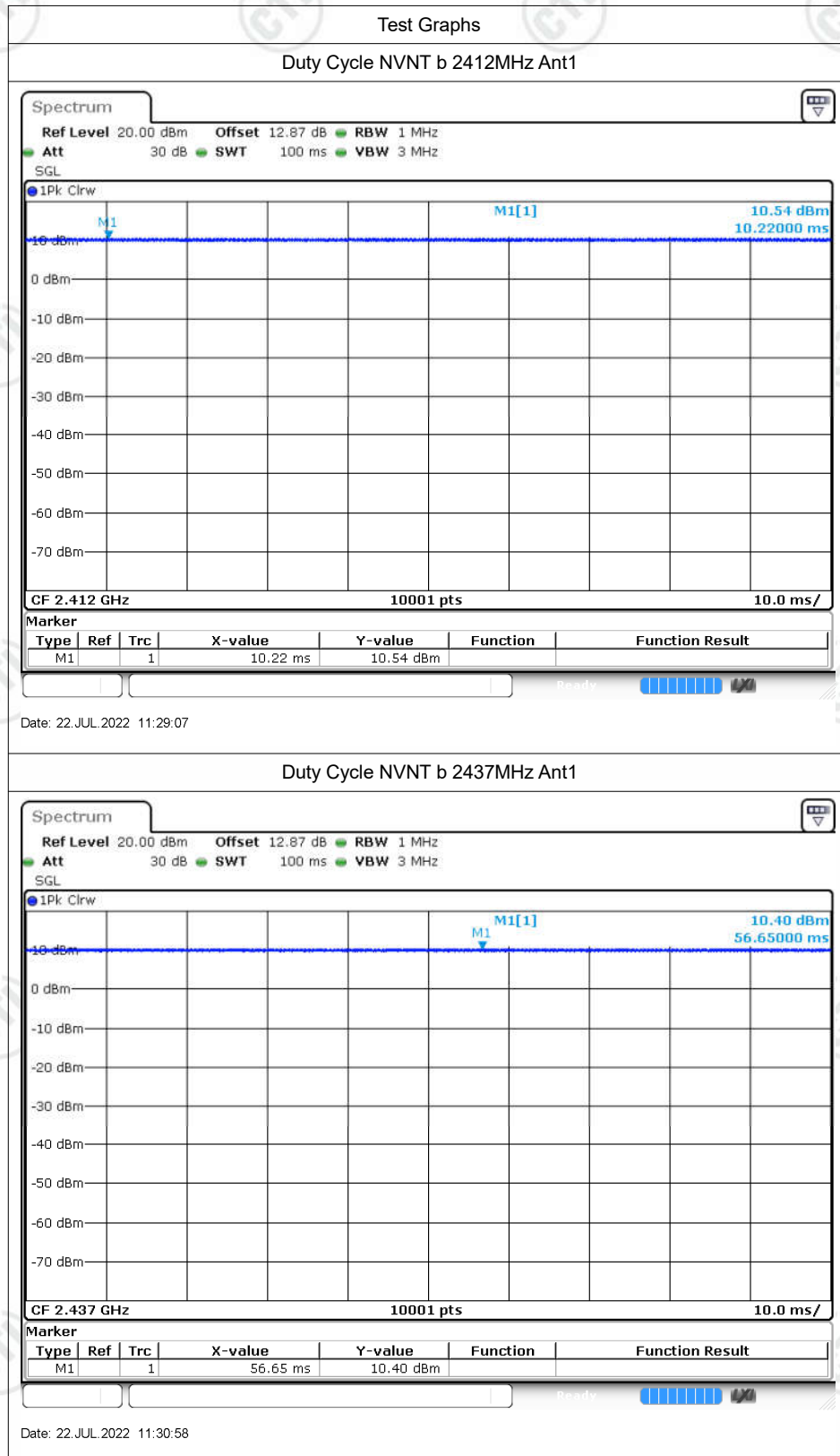
Test graphs: 76

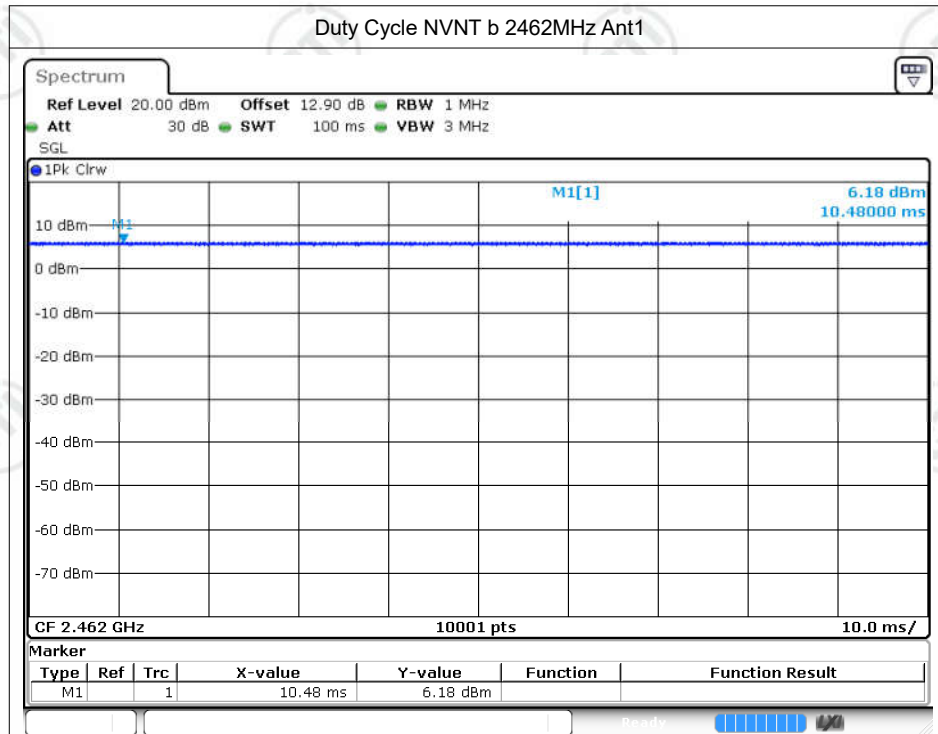
1.Duty Cycle

Test data:

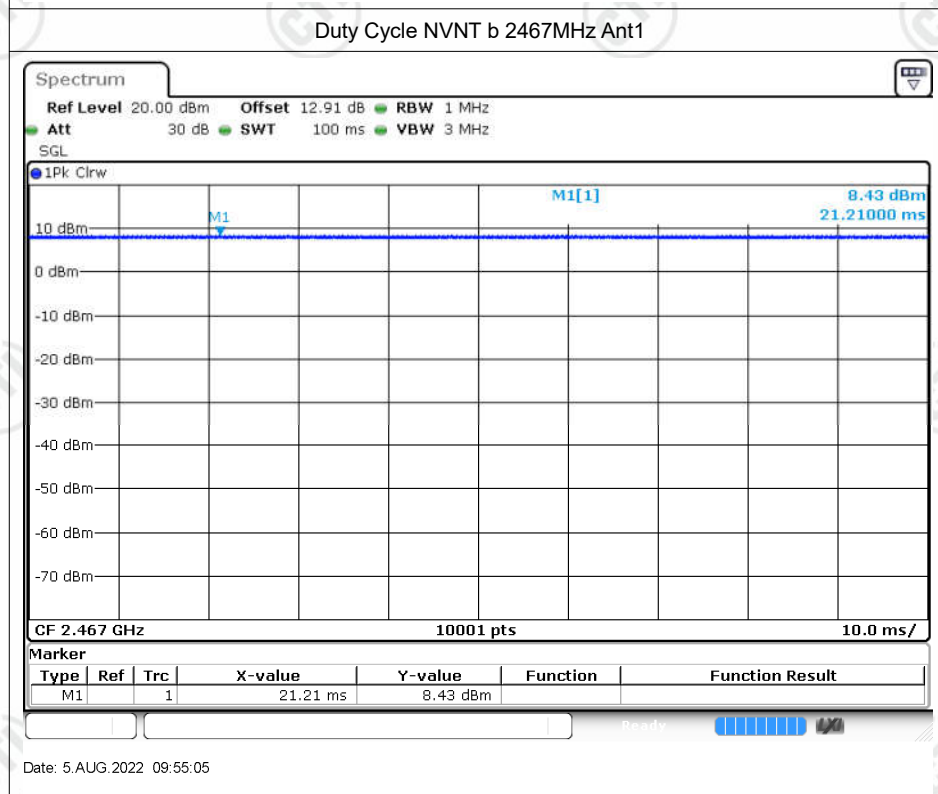
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	b	2467	Ant1	100	0	0
NVNT	b	2472	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	g	2467	Ant1	100	0	0
NVNT	g	2472	Ant1	100	0	0
NVNT	n20	2412	Ant1	100	0	0
NVNT	n20	2437	Ant1	100	0	0
NVNT	n20	2462	Ant1	100	0	0
NVNT	n20	2467	Ant1	100	0	0
NVNT	n20	2472	Ant1	100	0	0
NVNT	n40	2422	Ant1	100	0	0
NVNT	n40	2437	Ant1	100	0	0
NVNT	n40	2452	Ant1	100	0	0
NVNT	n40	2457	Ant1	100	0	0
NVNT	n40	2462	Ant1	100	0	0

Test graphs:

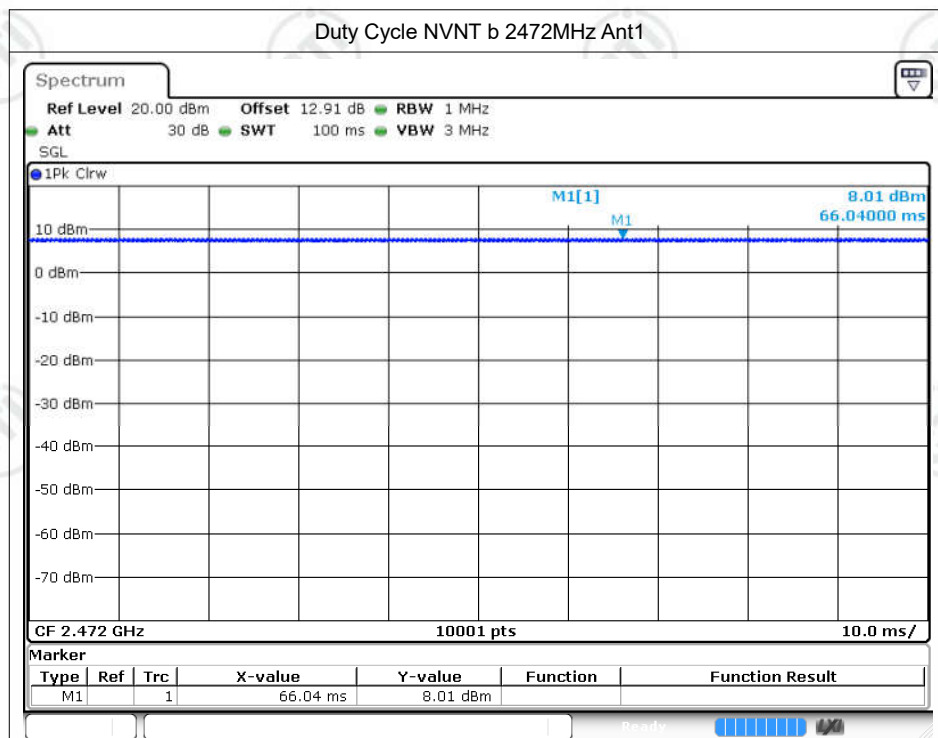




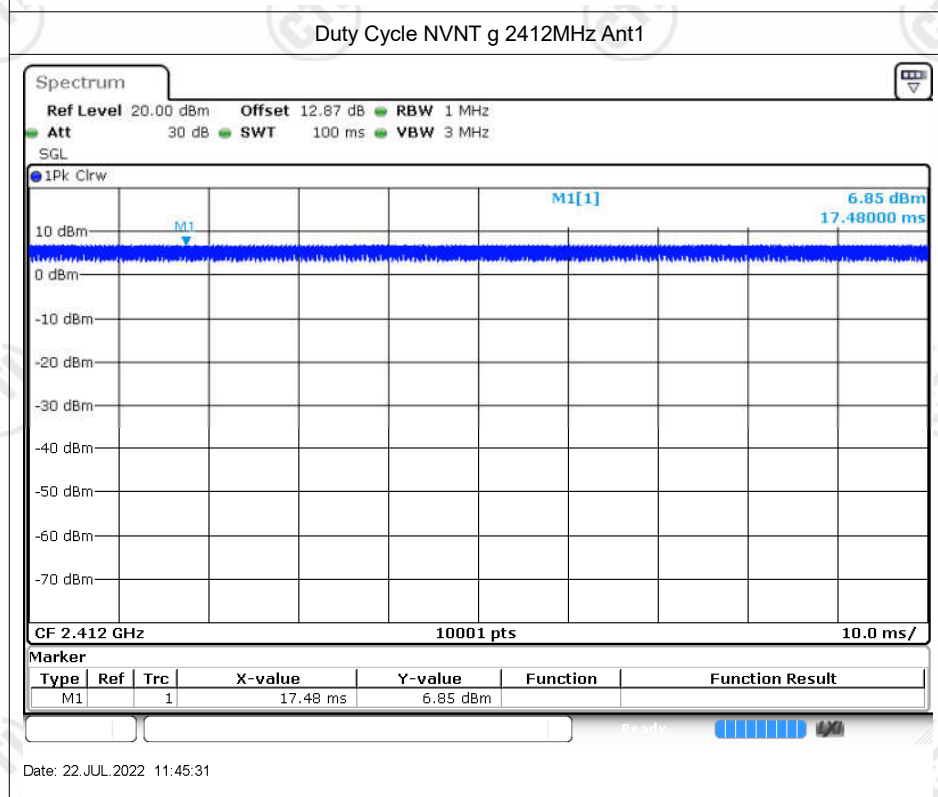
Date: 22.JUL.2022 11:32:26



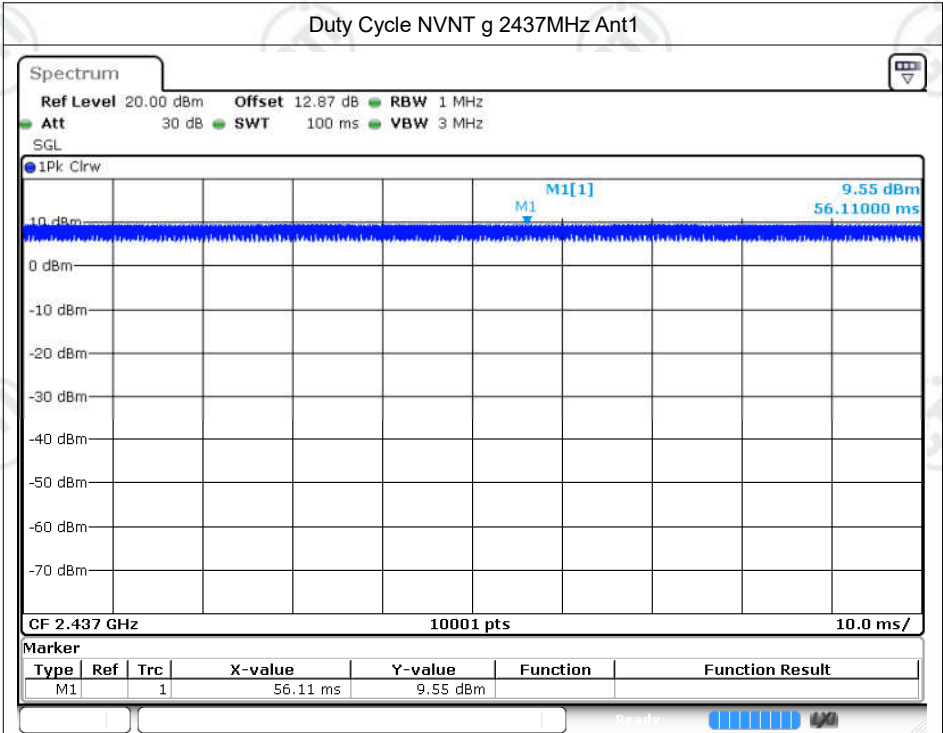
Date: 5.AUG.2022 09:55:05



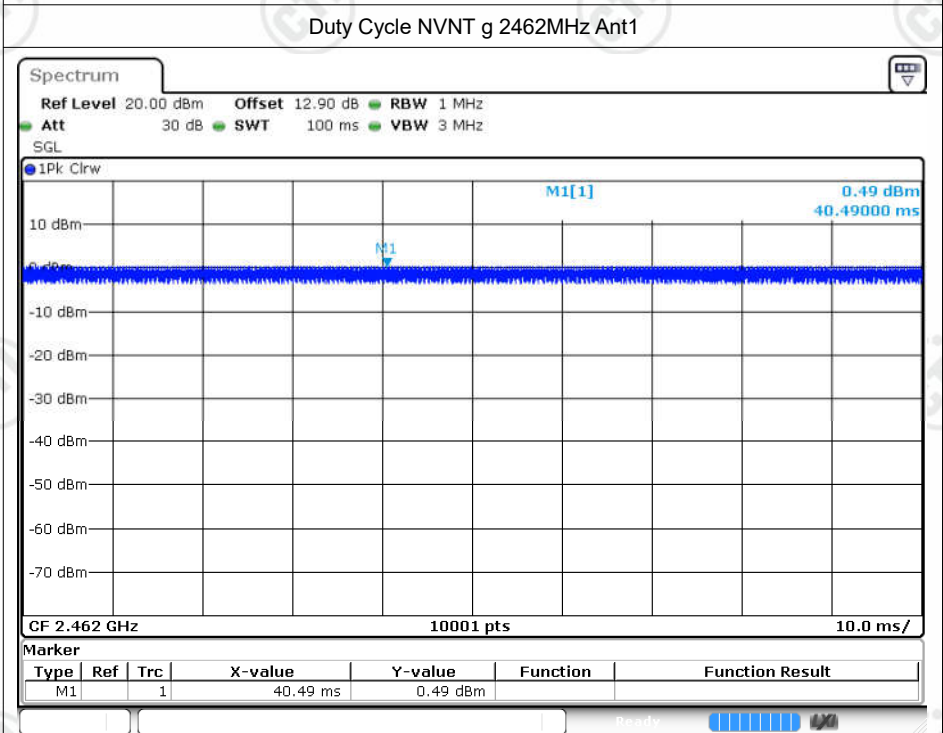
Date: 5.AUG.2022 09:53:34



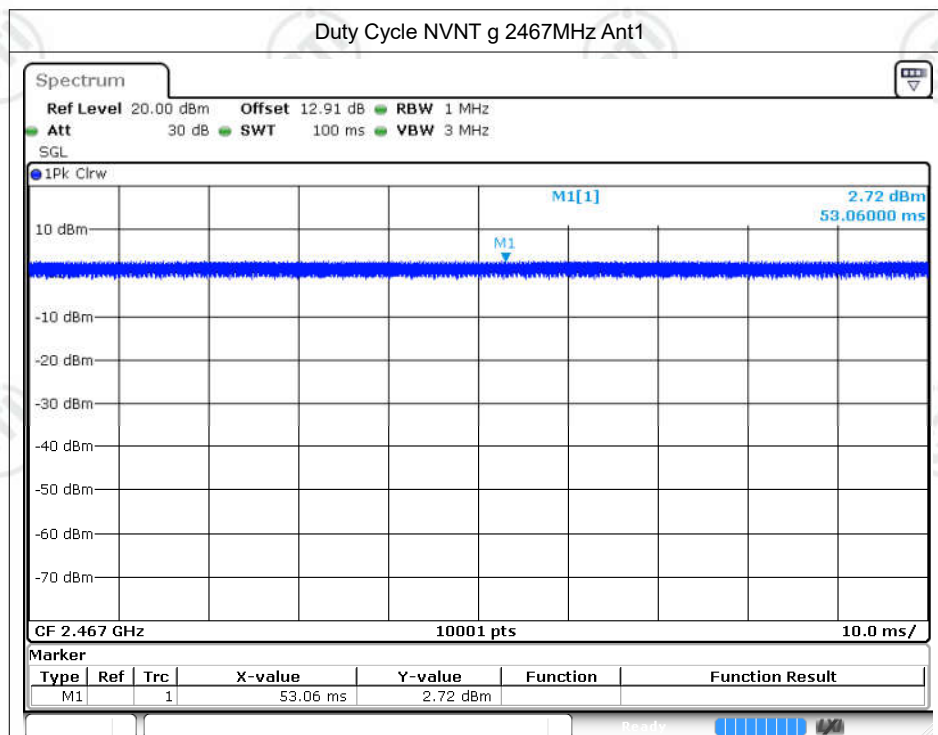
Date: 22.JUL.2022 11:45:31



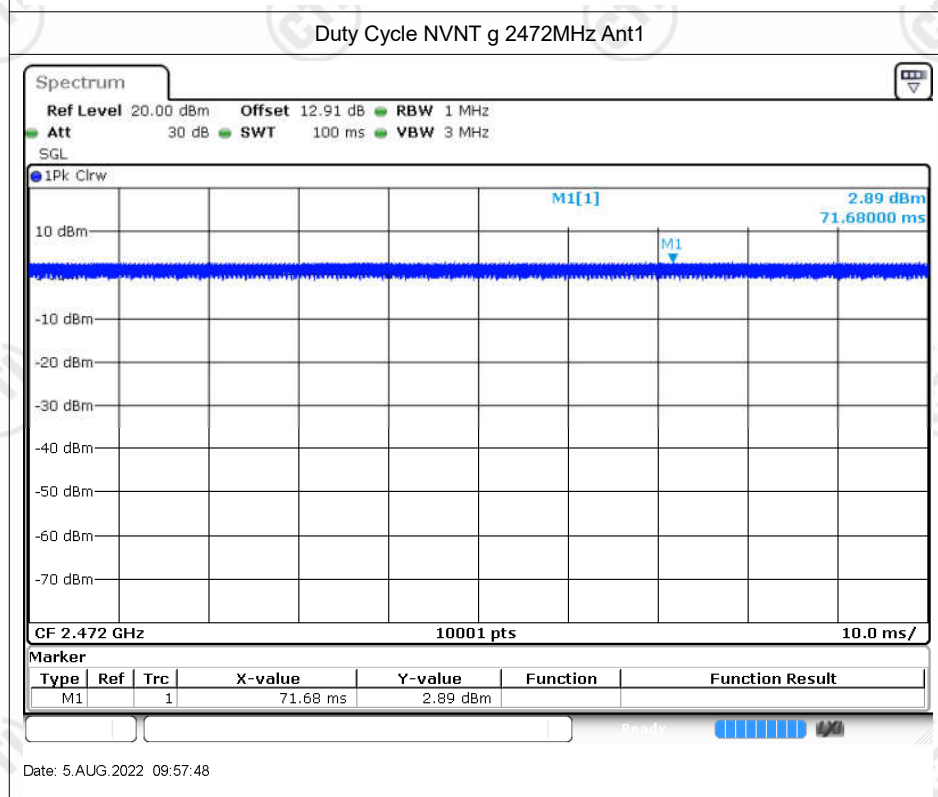
Date: 22.JUL.2022 11:47:50



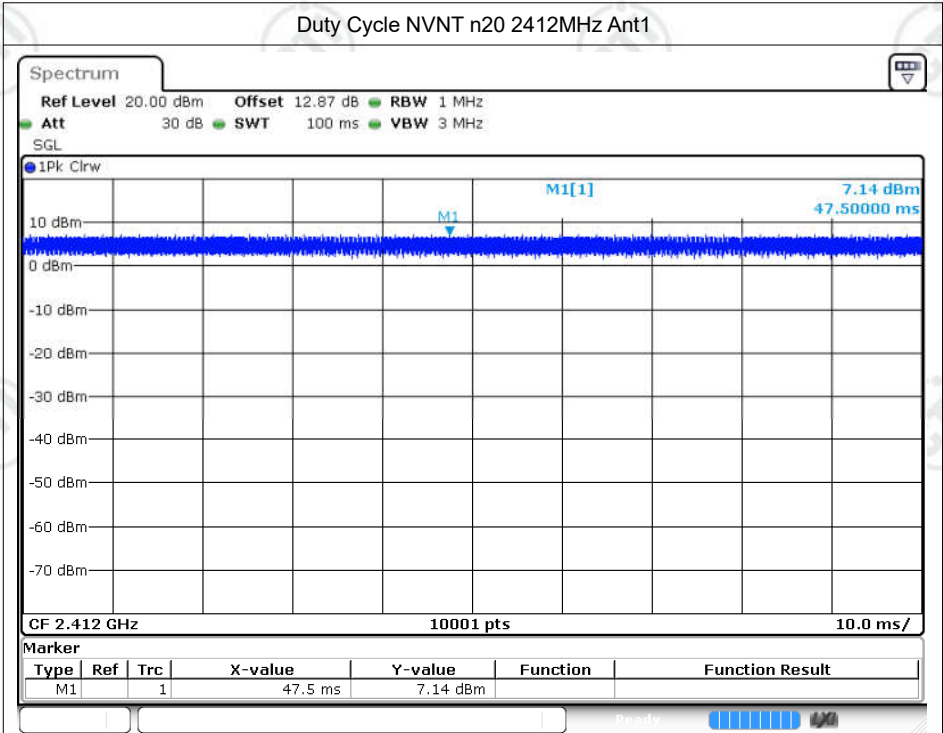
Date: 22.JUL.2022 11:49:38



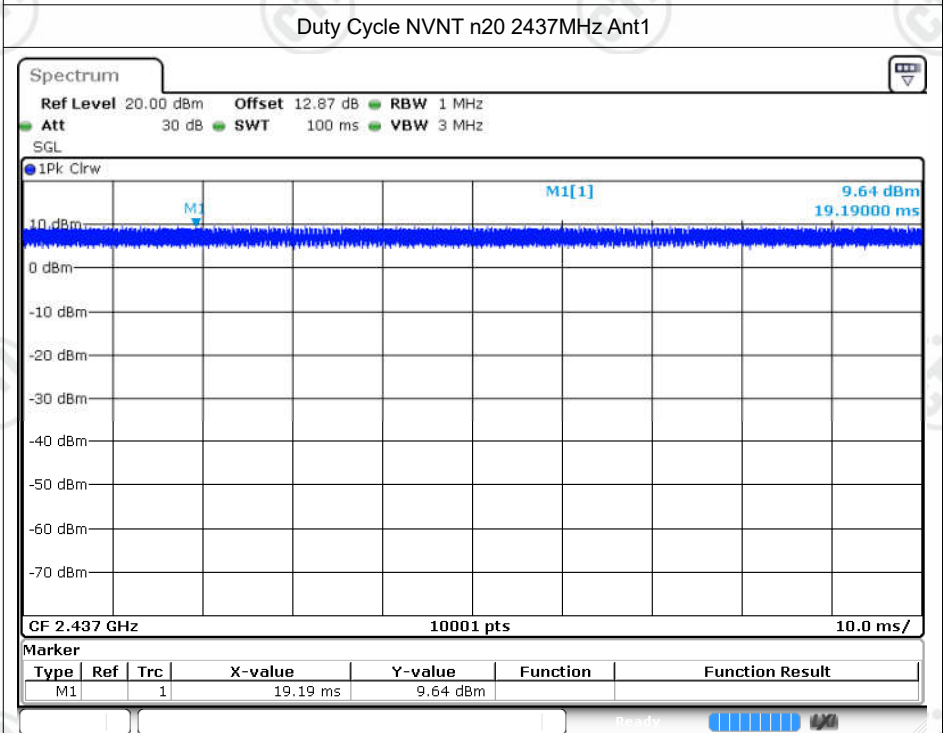
Date: 5.AUG.2022 09:59:31



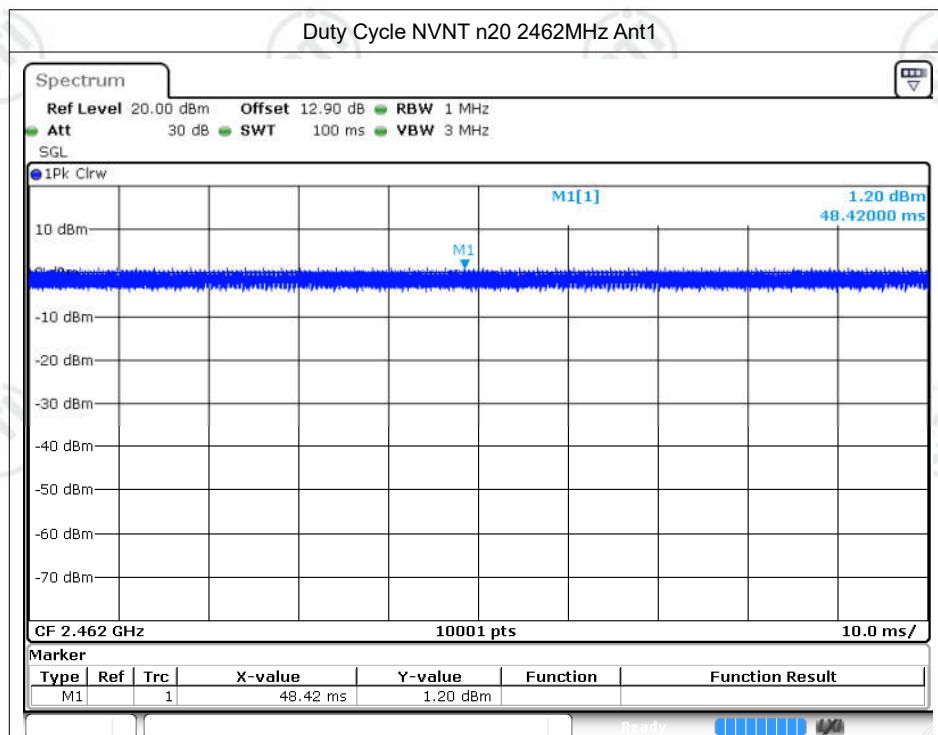
Date: 5.AUG.2022 09:57:48



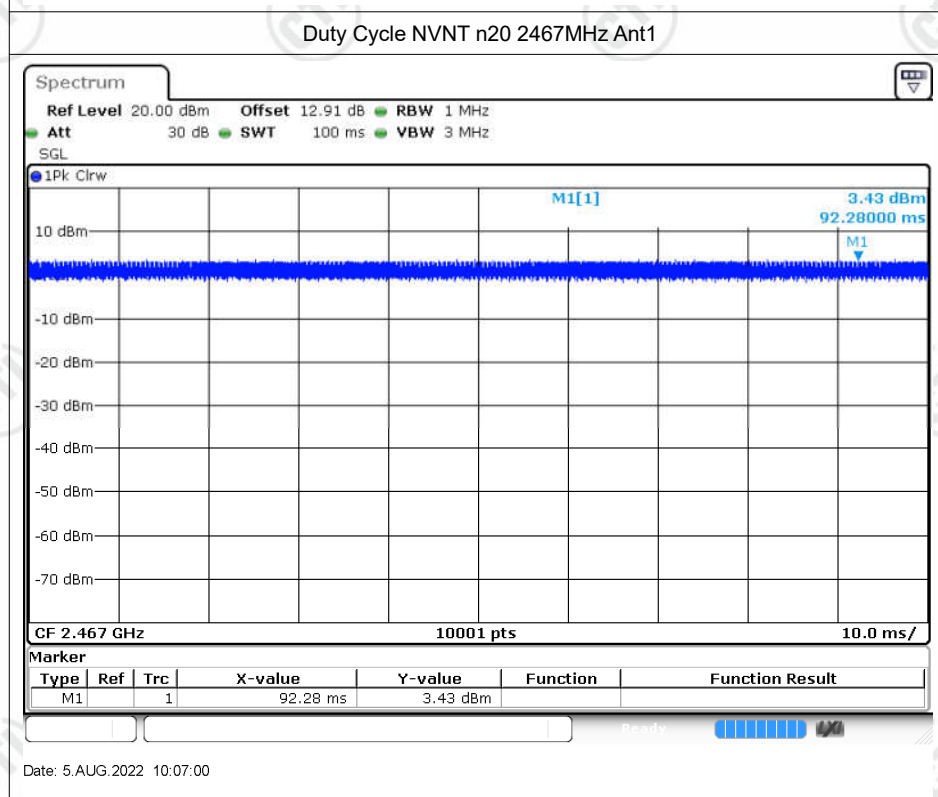
Date: 22.JUL.2022 11:52:33



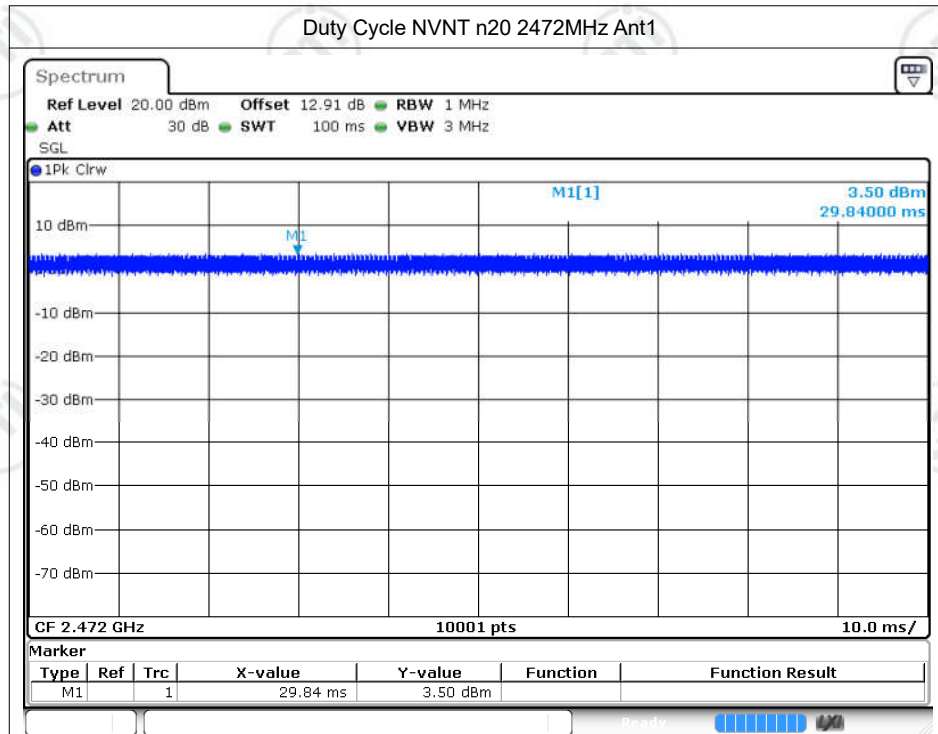
Date: 22.JUL.2022 11:54:28



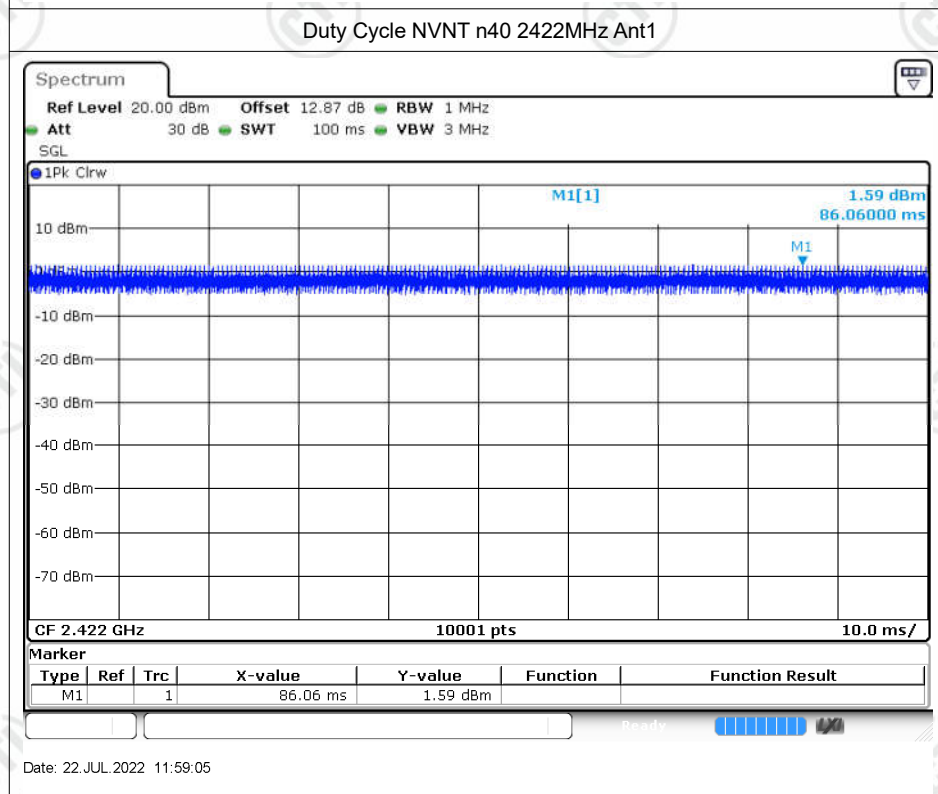
Date: 22.JUL.2022 11:56:21



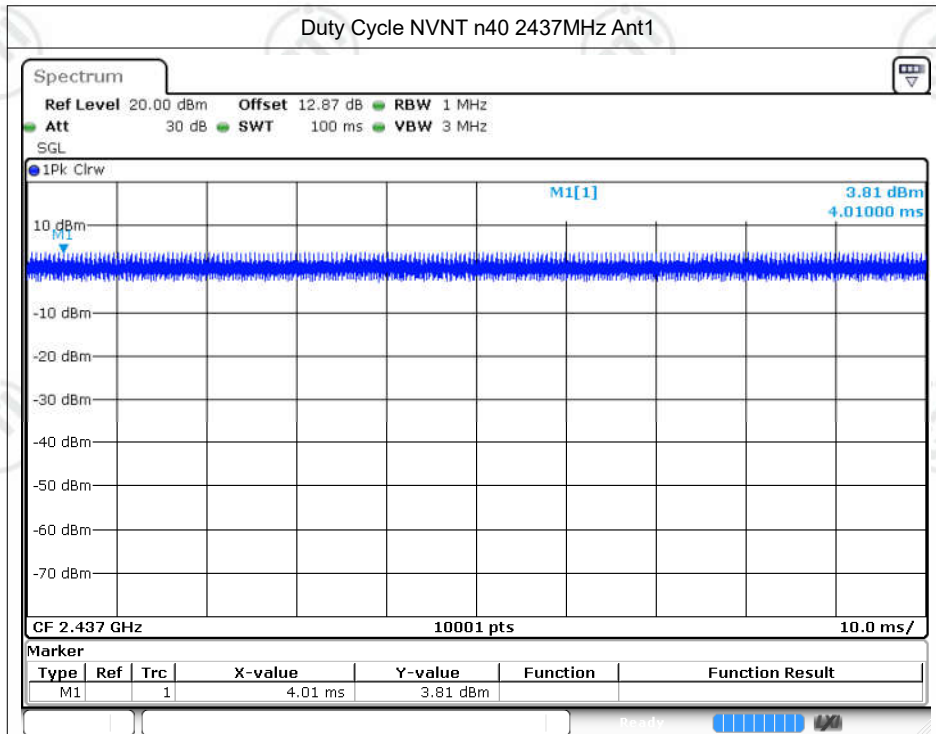
Date: 5.AUG.2022 10:07:00



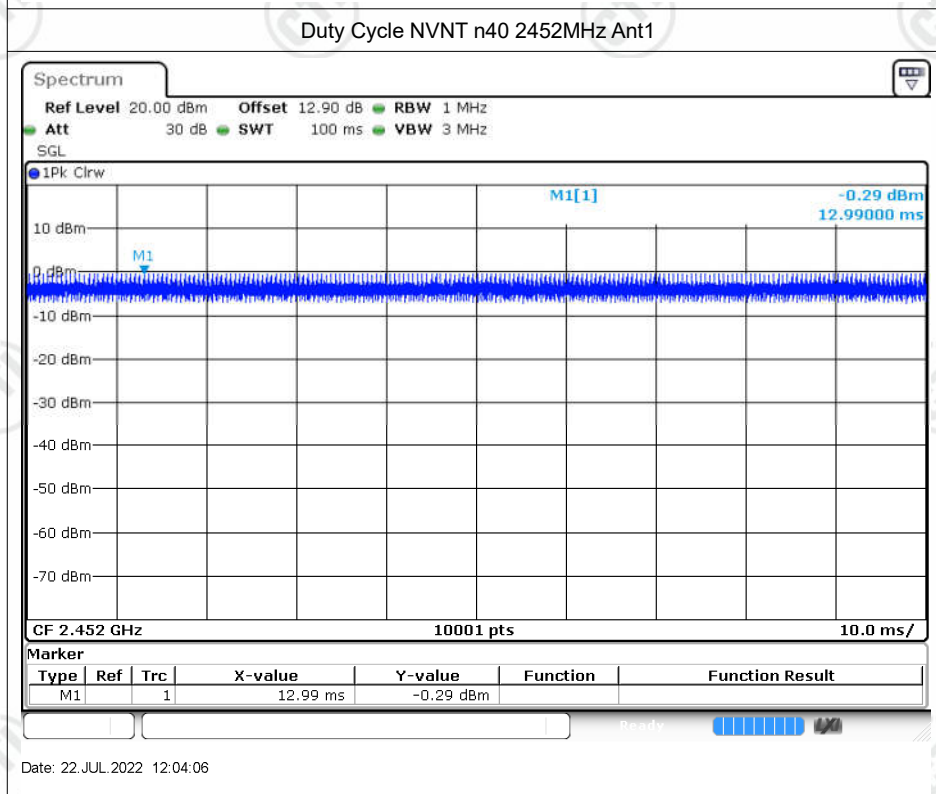
Date: 5.AUG.2022 10:04:46



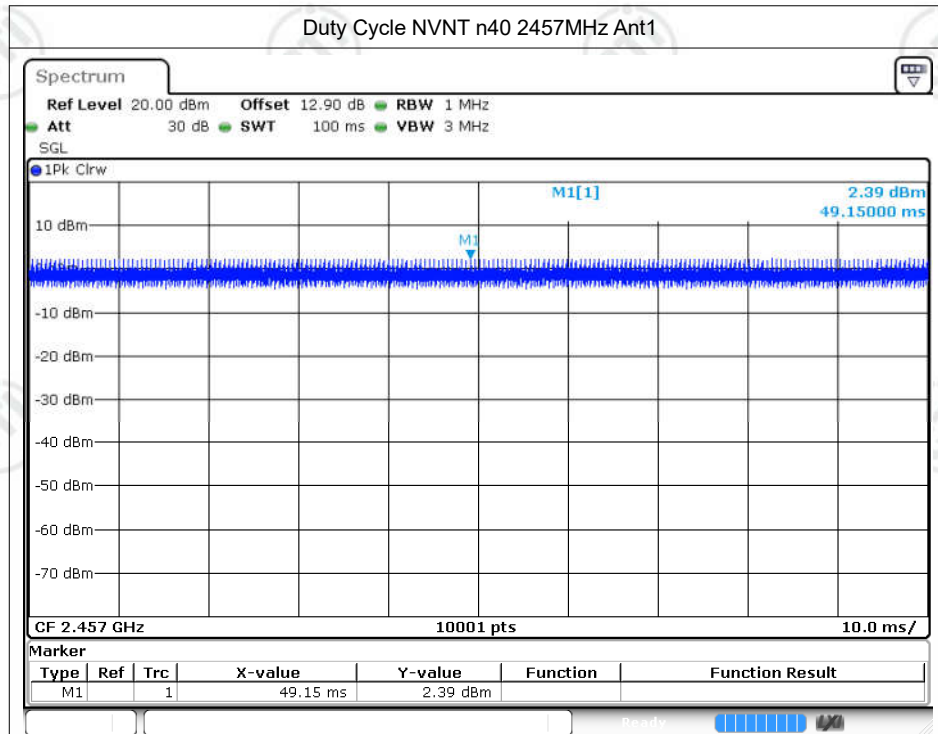
Date: 22.JUL.2022 11:59:05



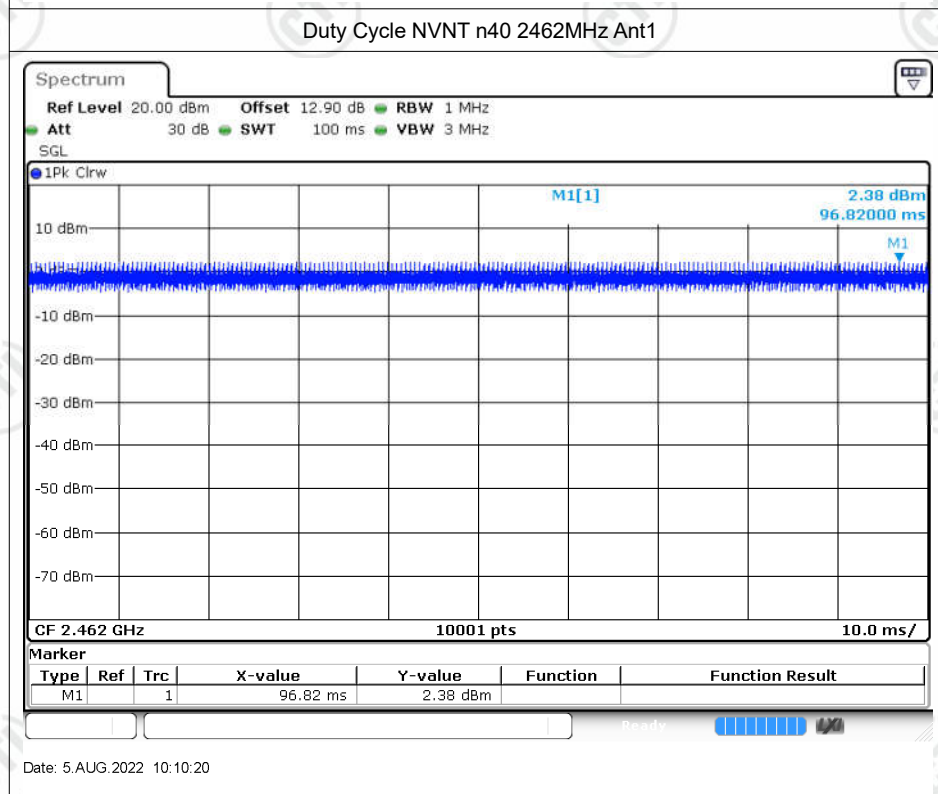
Date: 22.JUL.2022 12:01:42



Date: 22.JUL.2022 12:04:06



Date: 5.AUG.2022 10:14:35



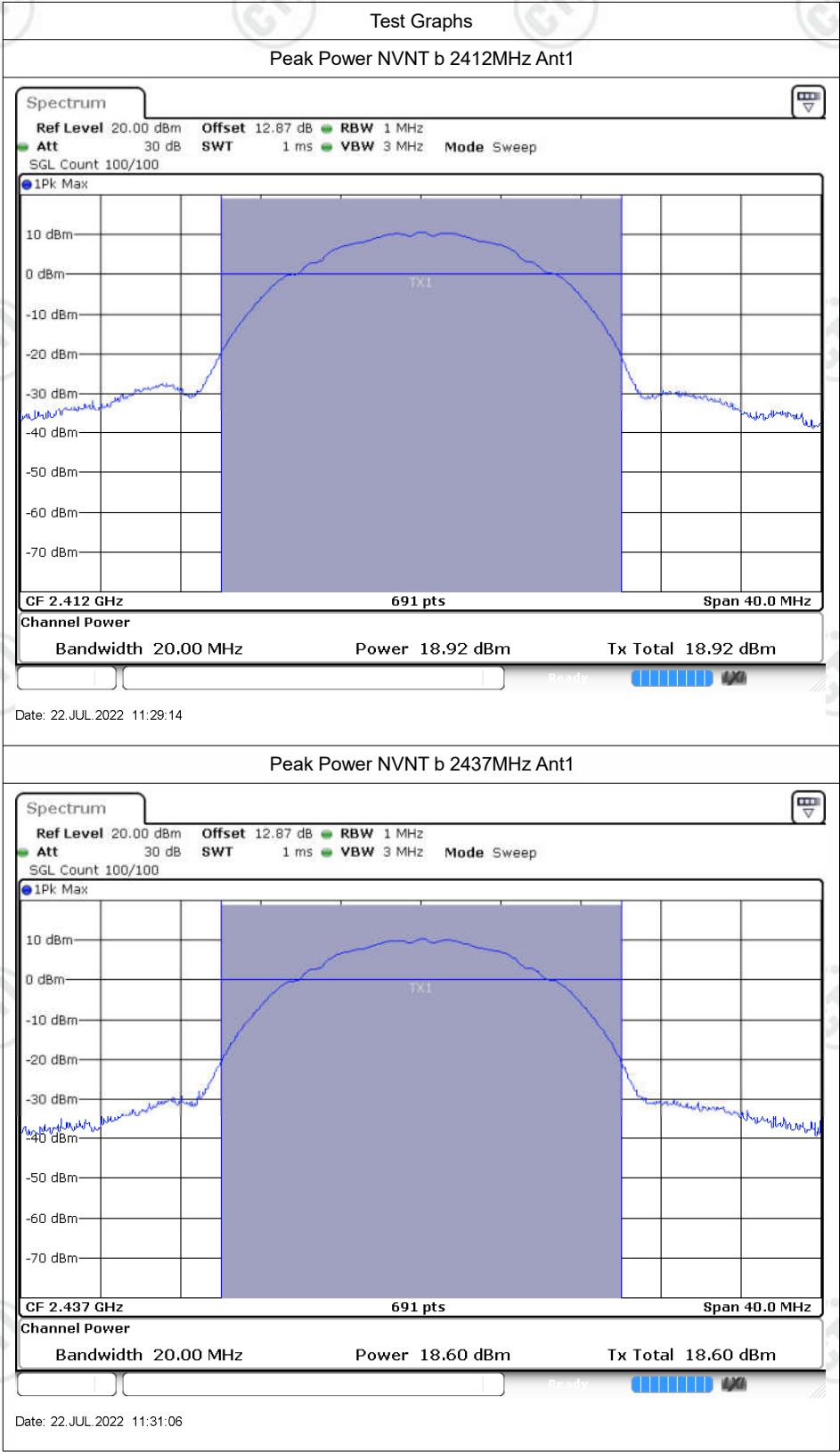
Date: 5.AUG.2022 10:10:20

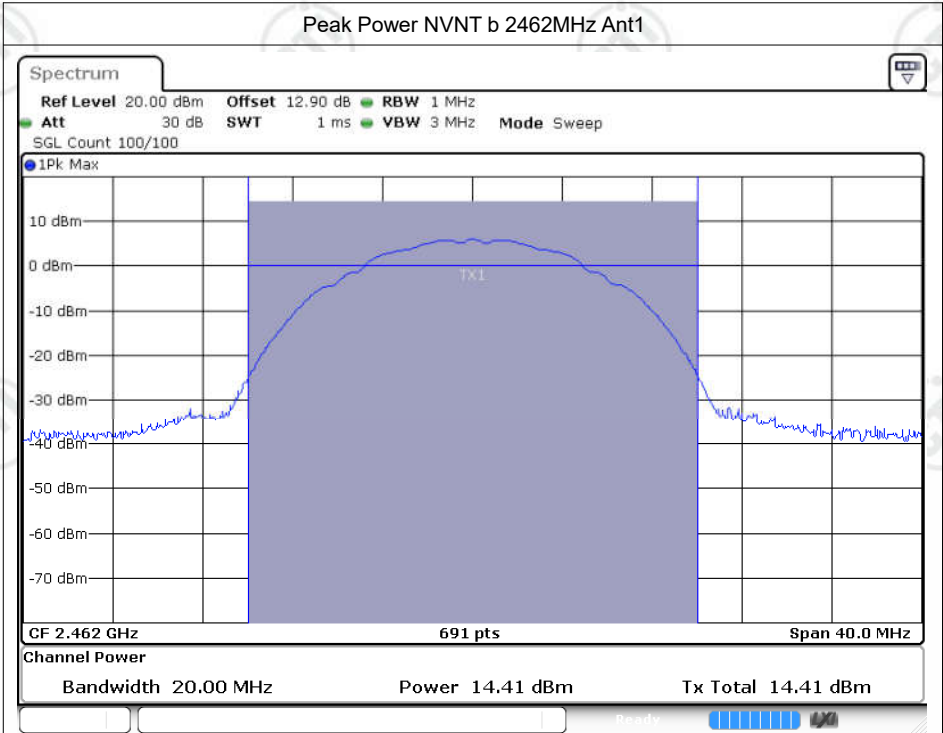
2.Maximum Peak Conducted Output Power

Test data:

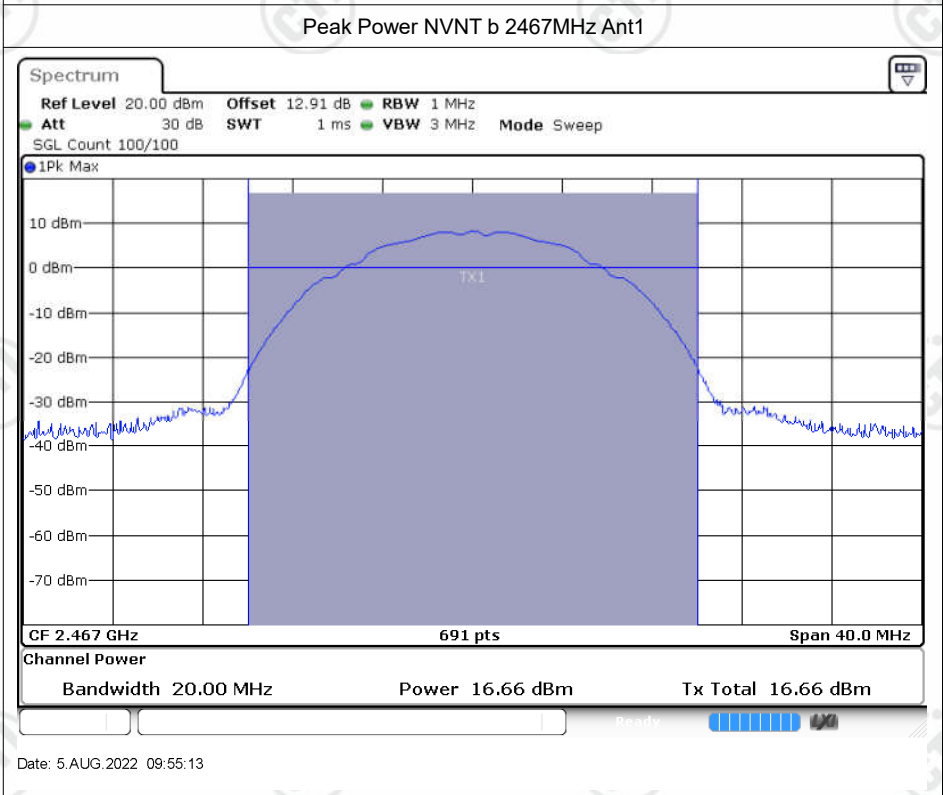
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	18.92	0	18.92	30	Pass
NVNT	b	2437	Ant1	18.6	0	18.60	30	Pass
NVNT	b	2462	Ant1	14.41	0	14.41	30	Pass
NVNT	b	2467	Ant1	16.66	0	16.66	30	Pass
NVNT	b	2472	Ant1	16.23	0	16.23	30	Pass
NVNT	g	2412	Ant1	20.09	0	20.09	30	Pass
NVNT	g	2437	Ant1	22.7	0	22.70	30	Pass
NVNT	g	2462	Ant1	13.27	0	13.27	30	Pass
NVNT	g	2467	Ant1	15.78	0	15.78	30	Pass
NVNT	g	2472	Ant1	16.01	0	16.01	30	Pass
NVNT	n20	2412	Ant1	19.75	0	19.75	30	Pass
NVNT	n20	2437	Ant1	22.27	0	22.27	30	Pass
NVNT	n20	2462	Ant1	13.62	0	13.62	30	Pass
NVNT	n20	2467	Ant1	16.23	0	16.23	30	Pass
NVNT	n20	2472	Ant1	16.27	0	16.27	30	Pass
NVNT	n40	2422	Ant1	19.6	0	19.60	30	Pass
NVNT	n40	2437	Ant1	21.93	0	21.93	30	Pass
NVNT	n40	2452	Ant1	17.77	0	17.77	30	Pass
NVNT	n40	2457	Ant1	20.38	0	20.38	30	Pass
NVNT	n40	2462	Ant1	20.32	0	20.32	30	Pass

Test graphs:

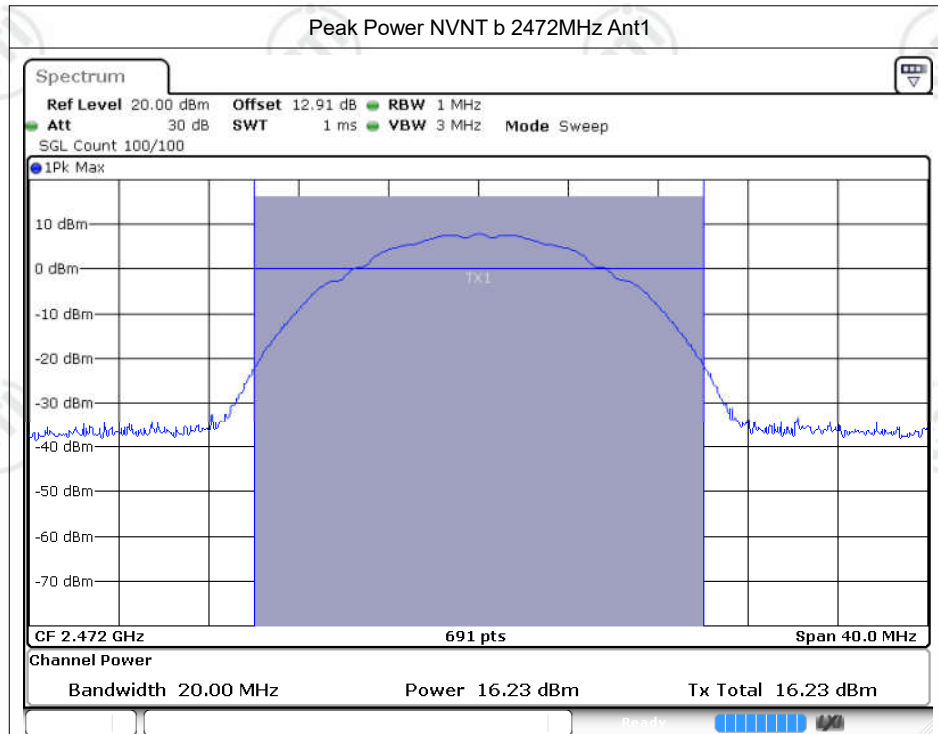




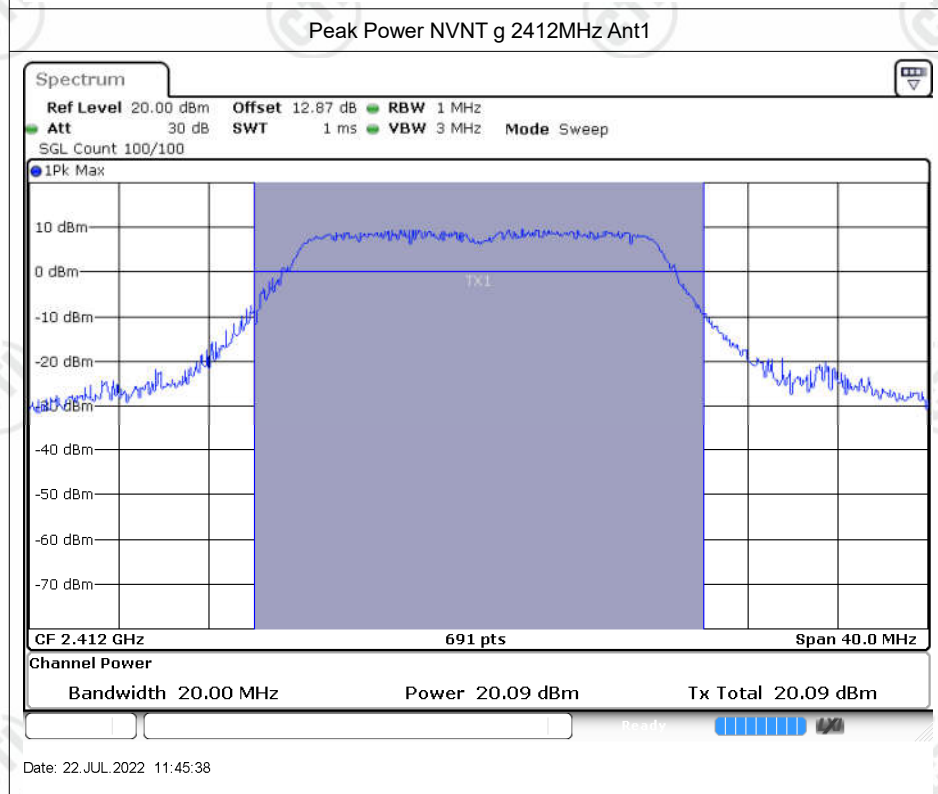
Date: 22.JUL.2022 11:32:33



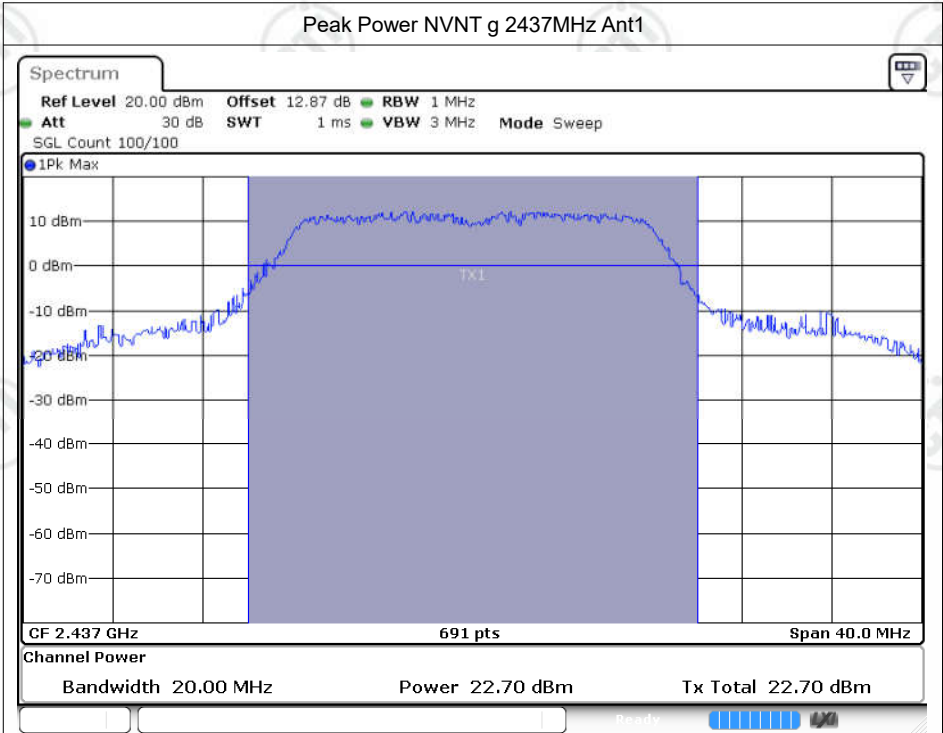
Date: 5.AUG.2022 09:55:13



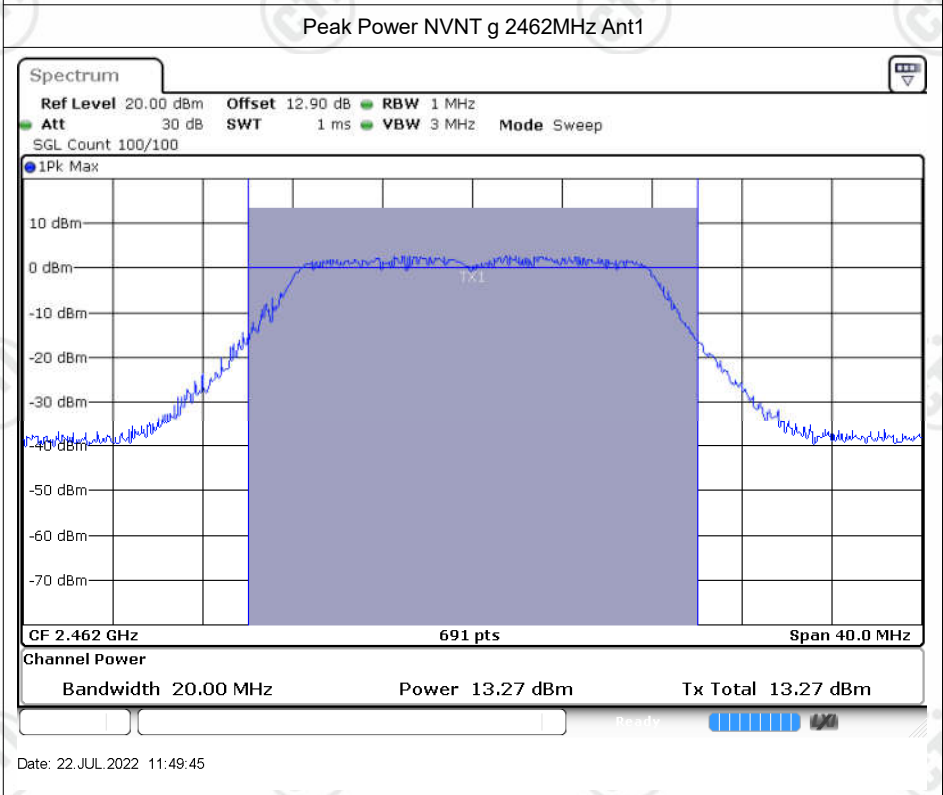
Date: 5.AUG.2022 09:53:41



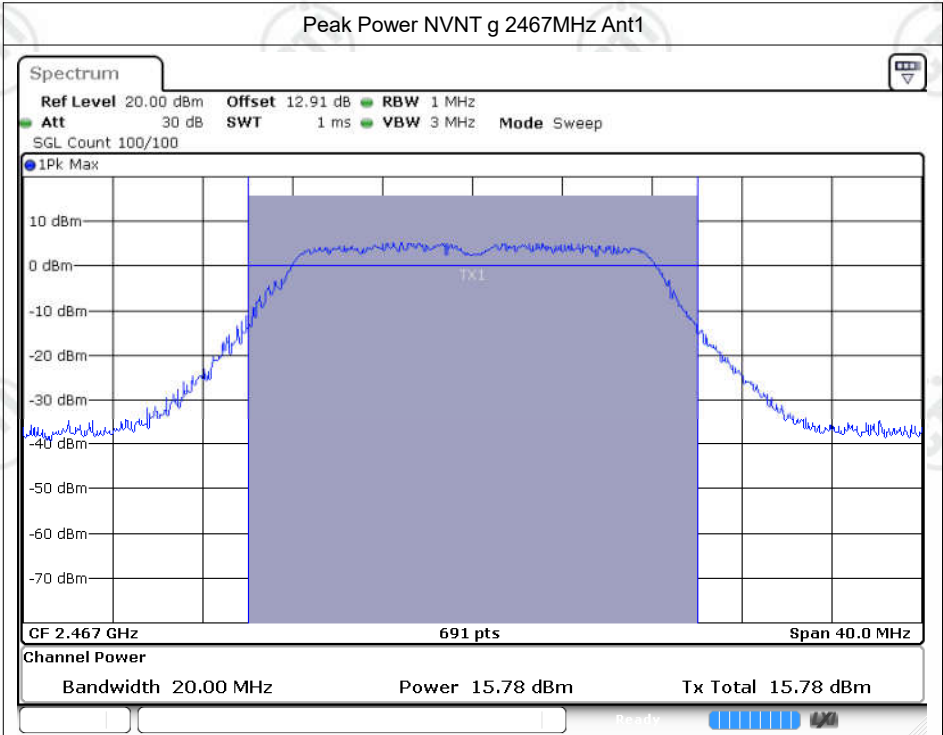
Date: 22.JUL.2022 11:45:38



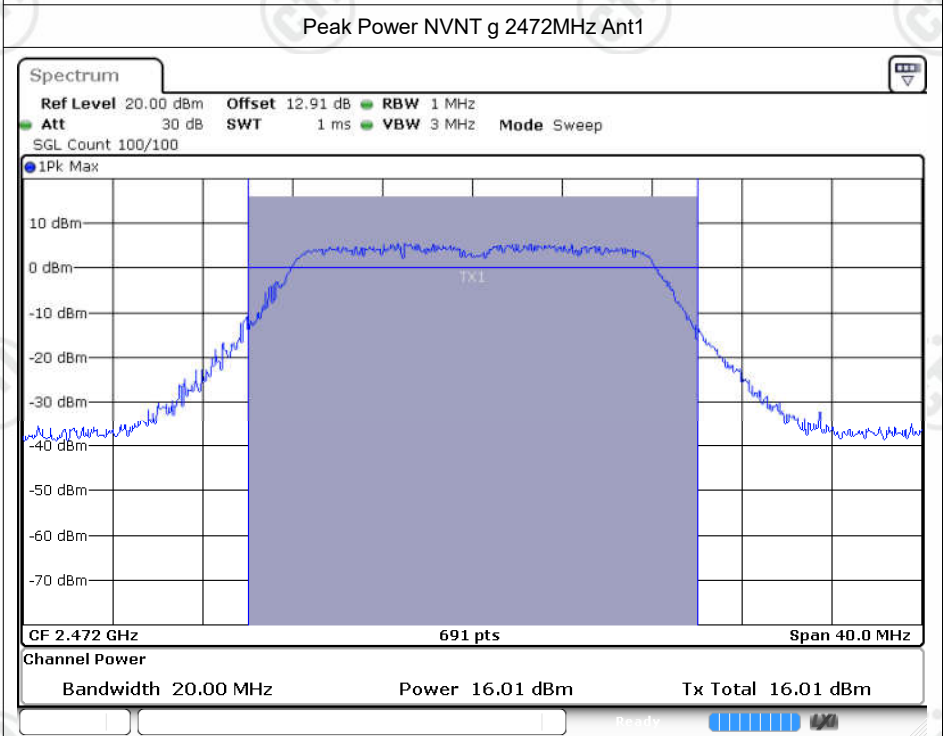
Date: 22.JUL.2022 11:47:57



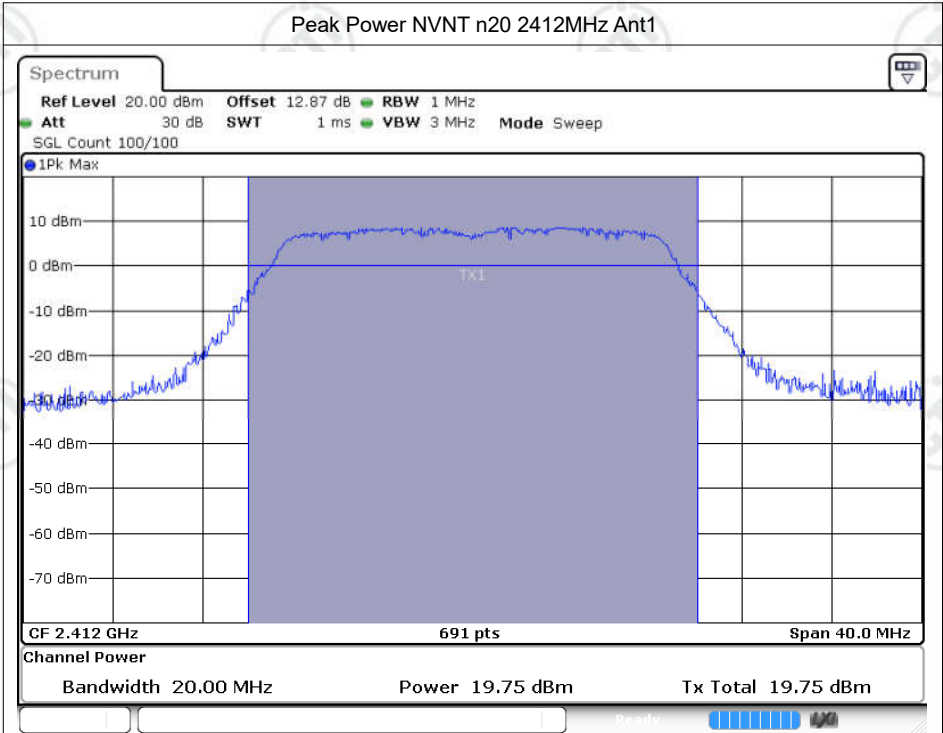
Date: 22.JUL.2022 11:49:45



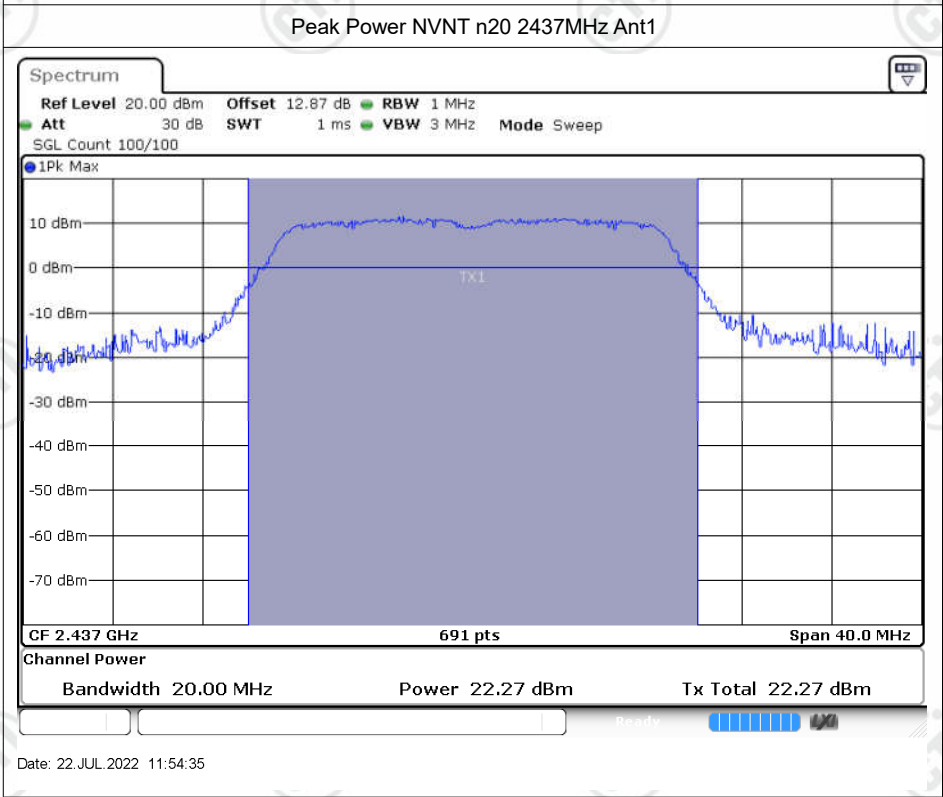
Date: 5.AUG.2022 09:59:38



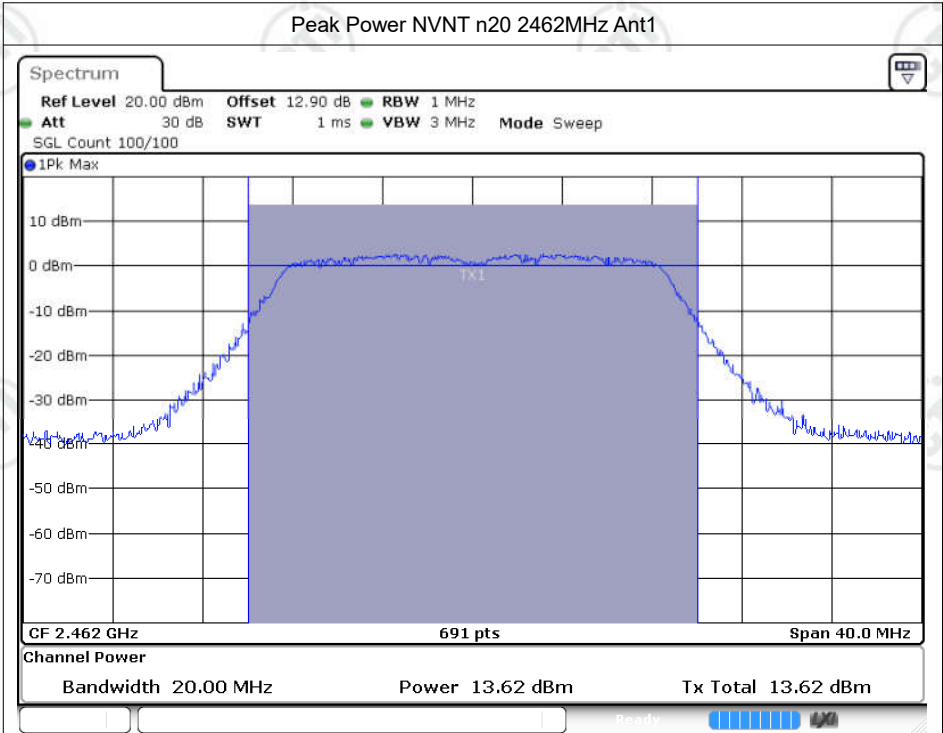
Date: 5.AUG.2022 09:57:56



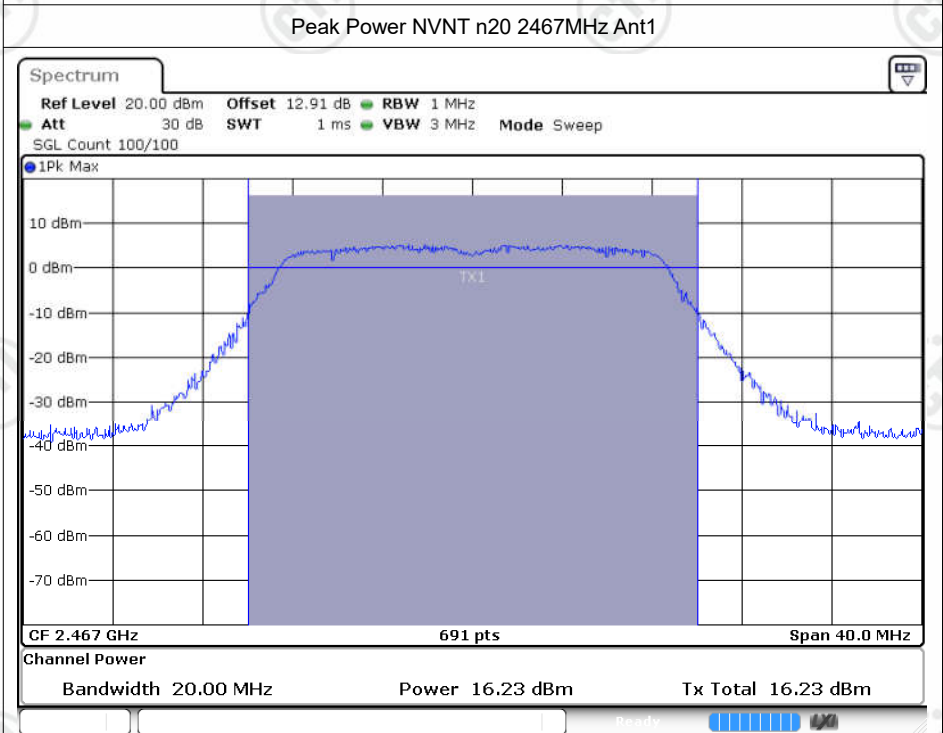
Date: 22.JUL.2022 11:52:40



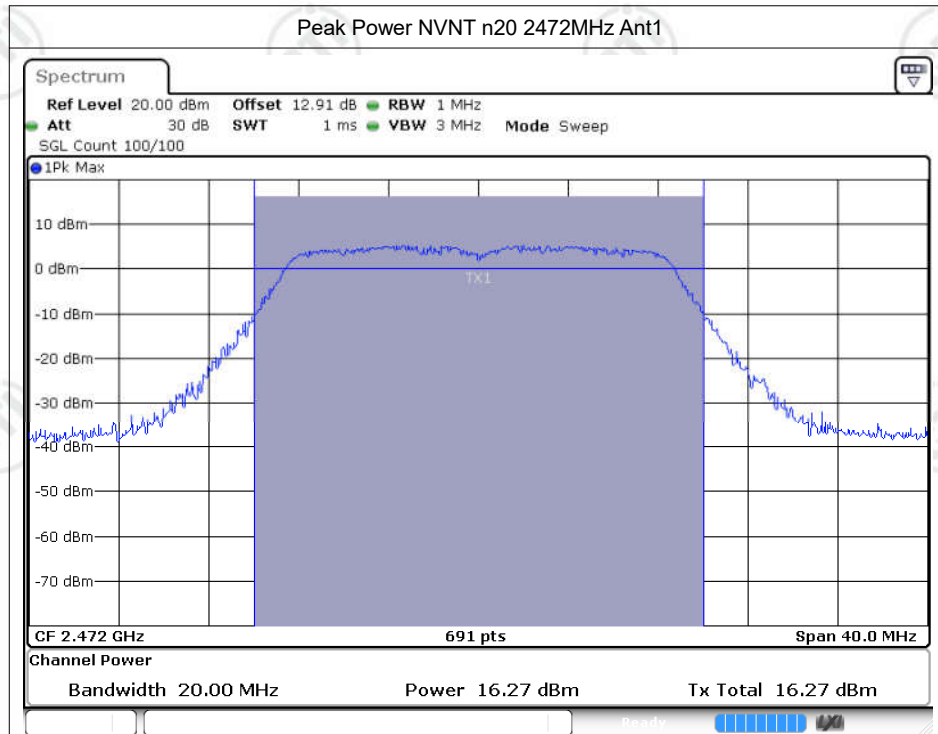
Date: 22.JUL.2022 11:54:35



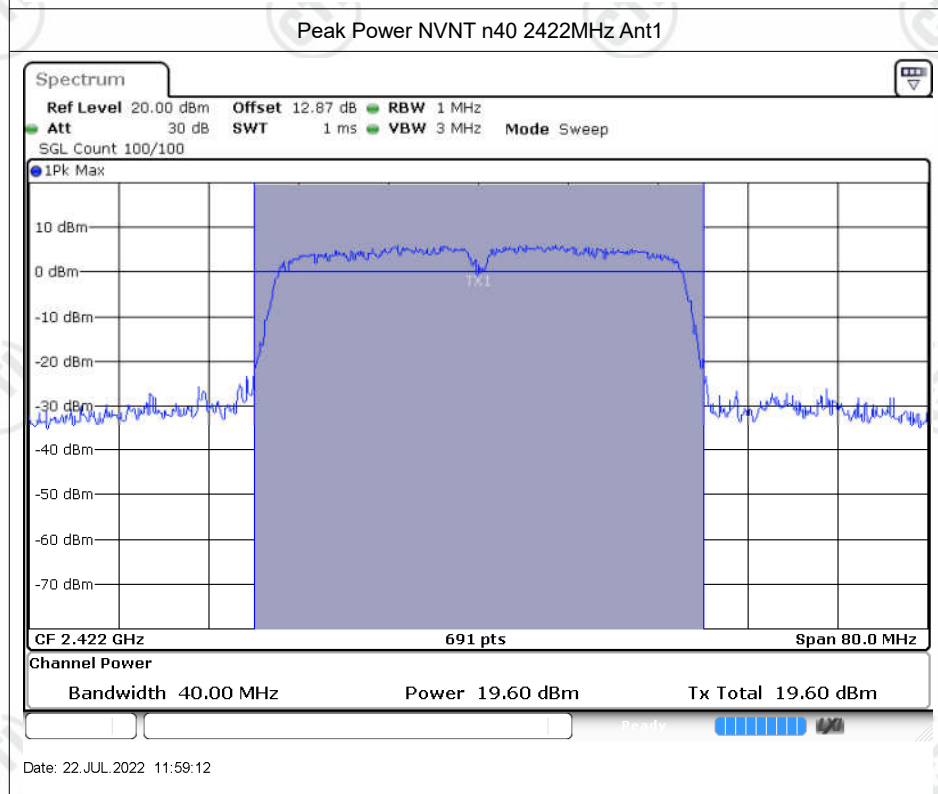
Date: 22.JUL.2022 11:56:28

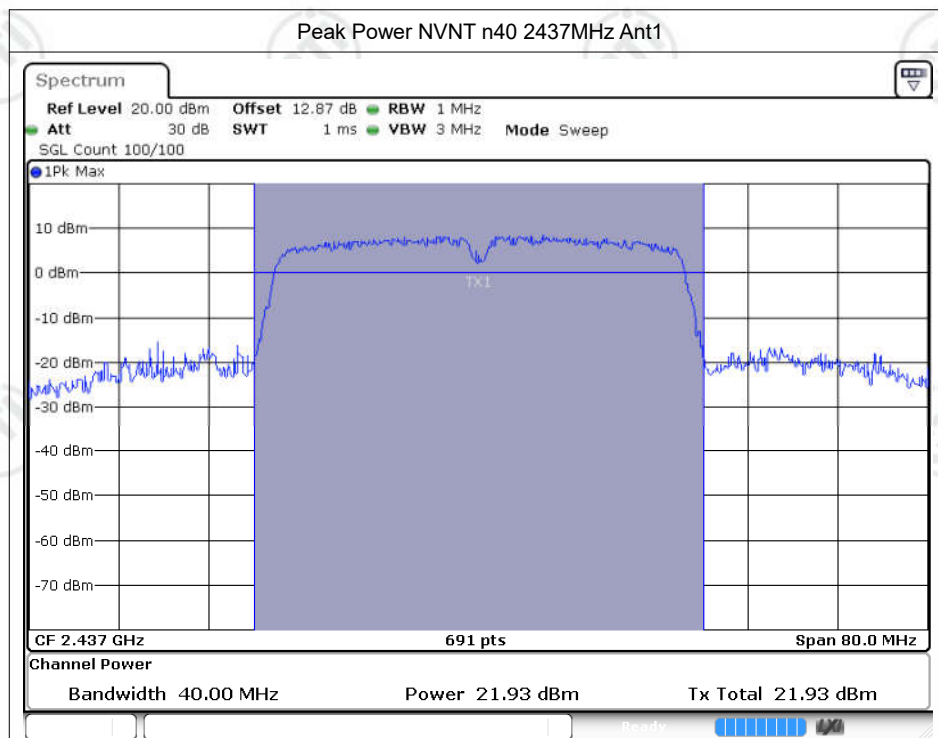


Date: 5.AUG.2022 10:07:07

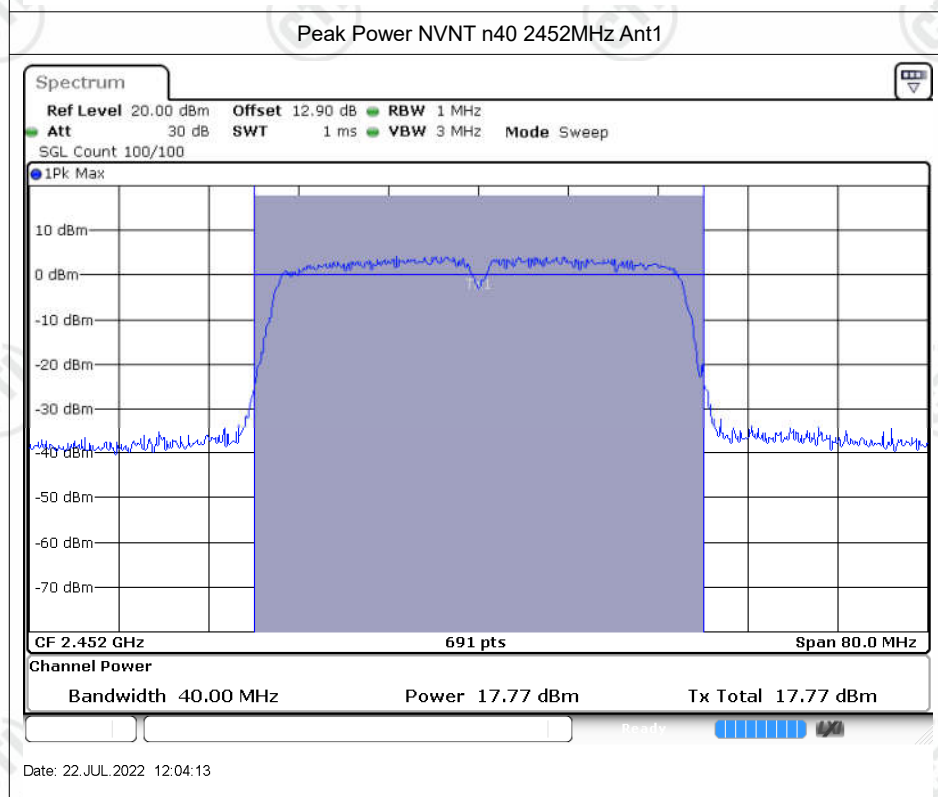


Date: 5.AUG.2022 10:04:52

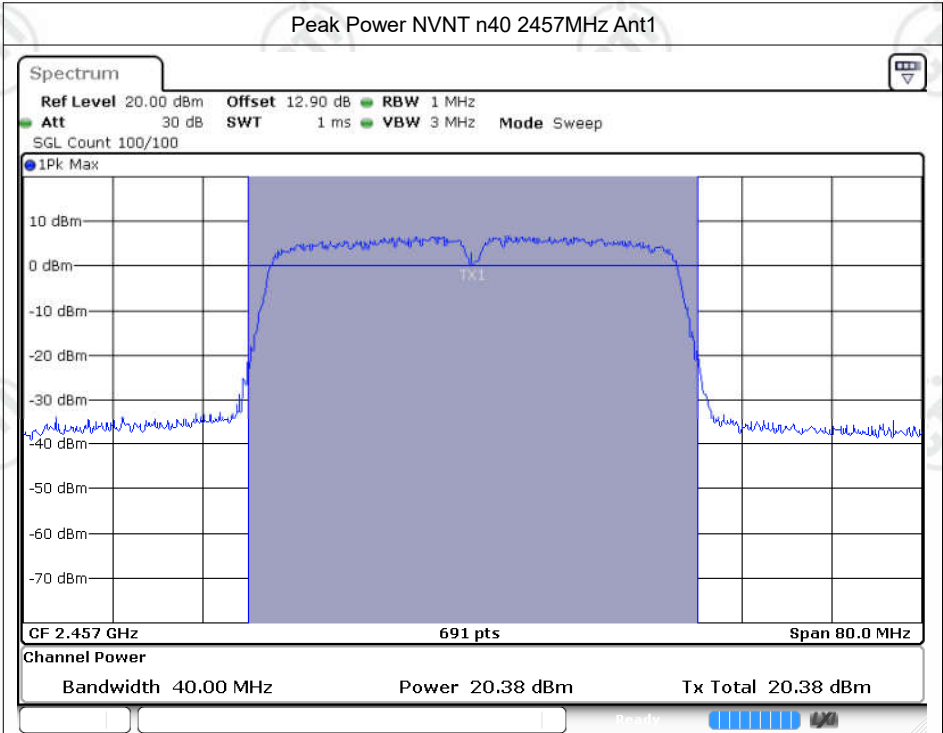




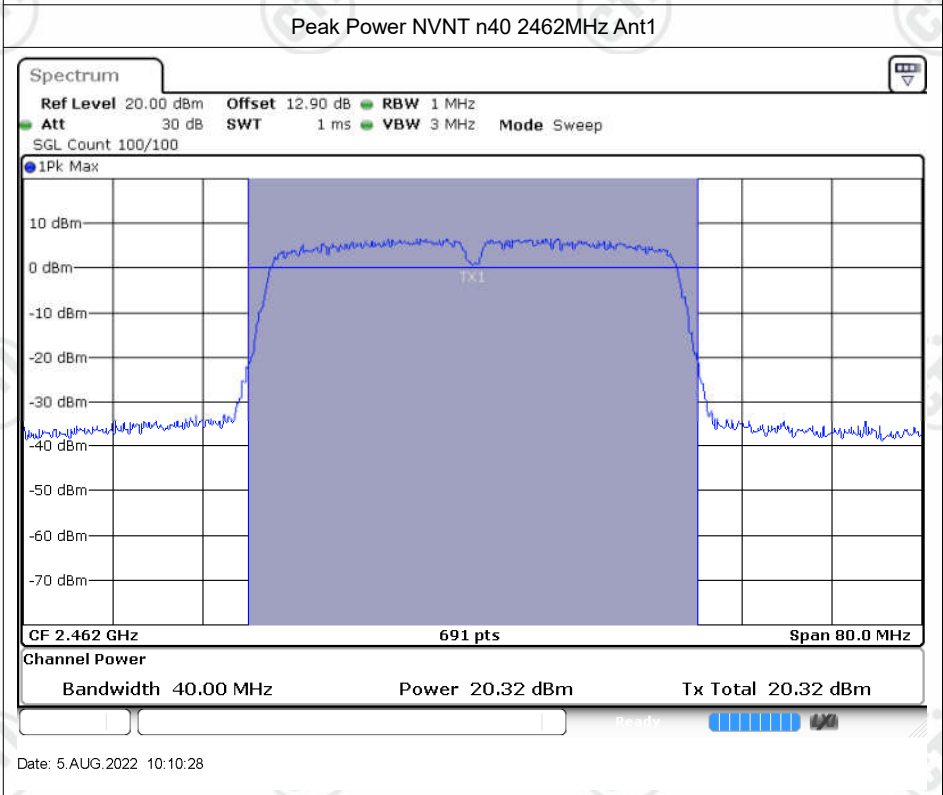
Date: 22 JUL 2022 12:01:49



Date: 22 JUL 2022 12:04:13



Date: 5.AUG.2022 10:14:42



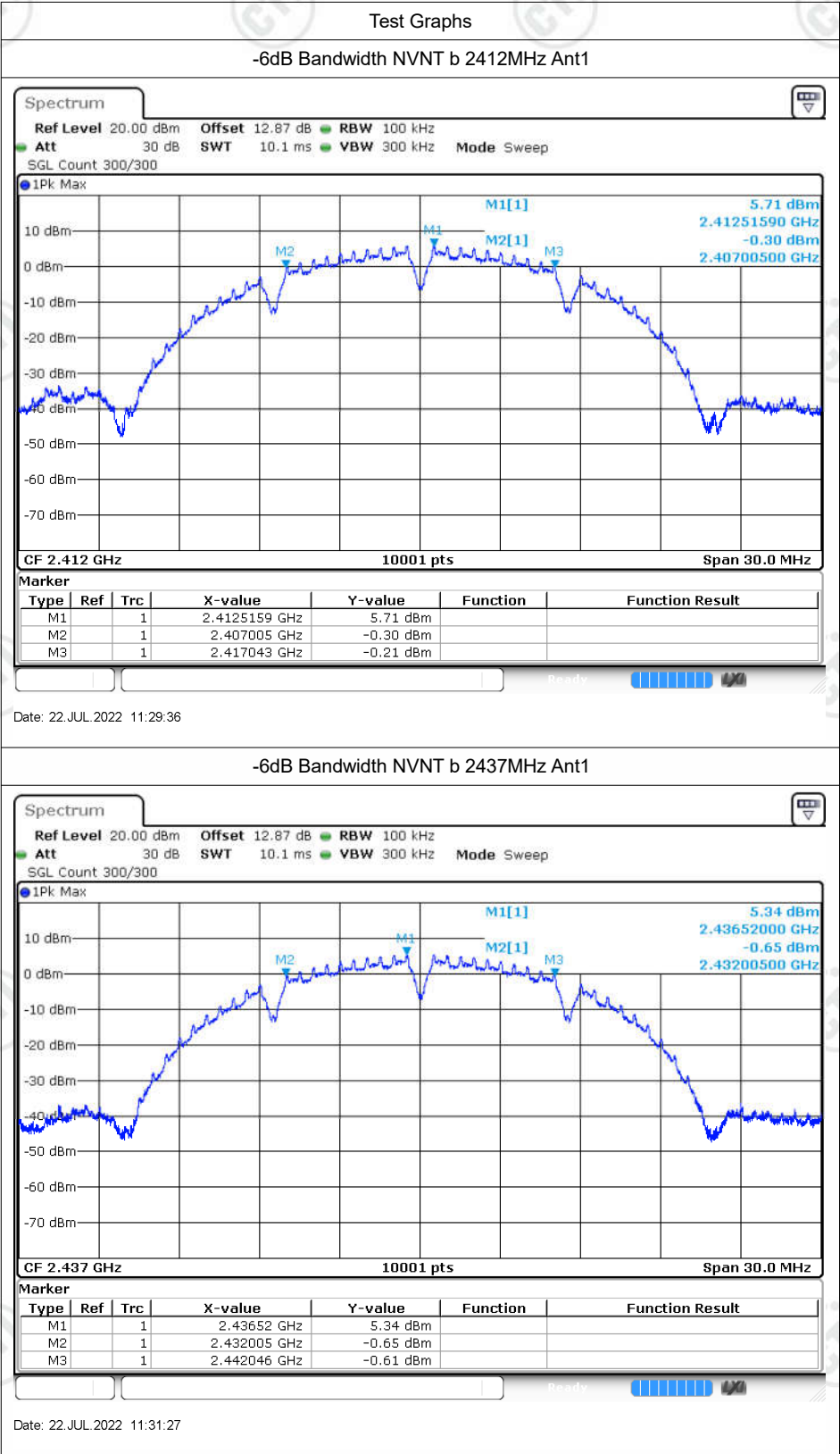
Date: 5.AUG.2022 10:10:28

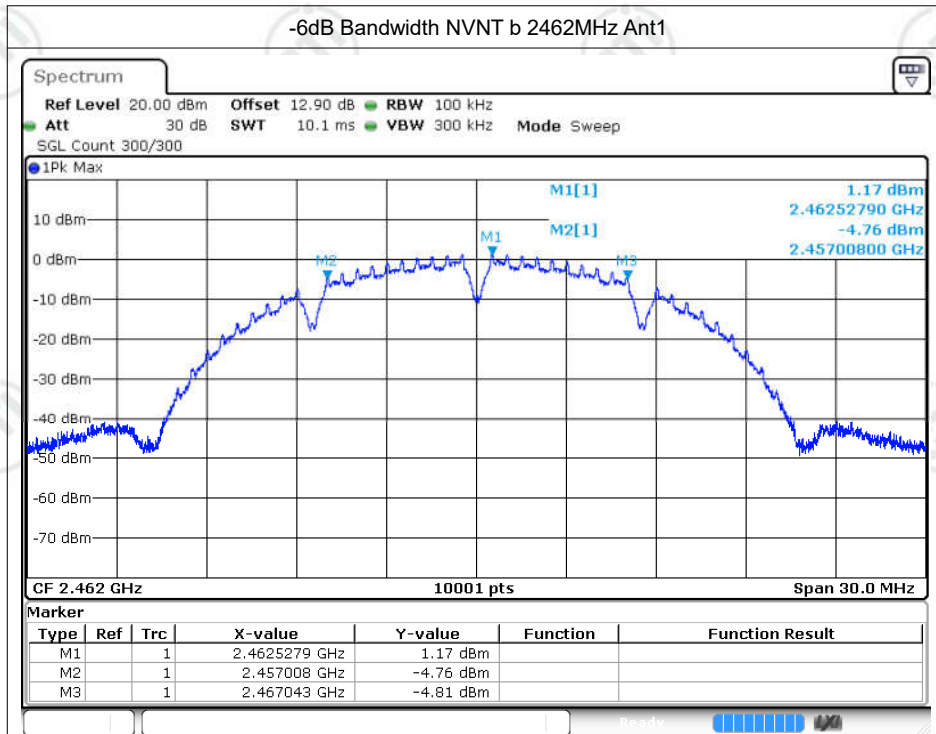
3.-6dB Bandwidth

Test data:

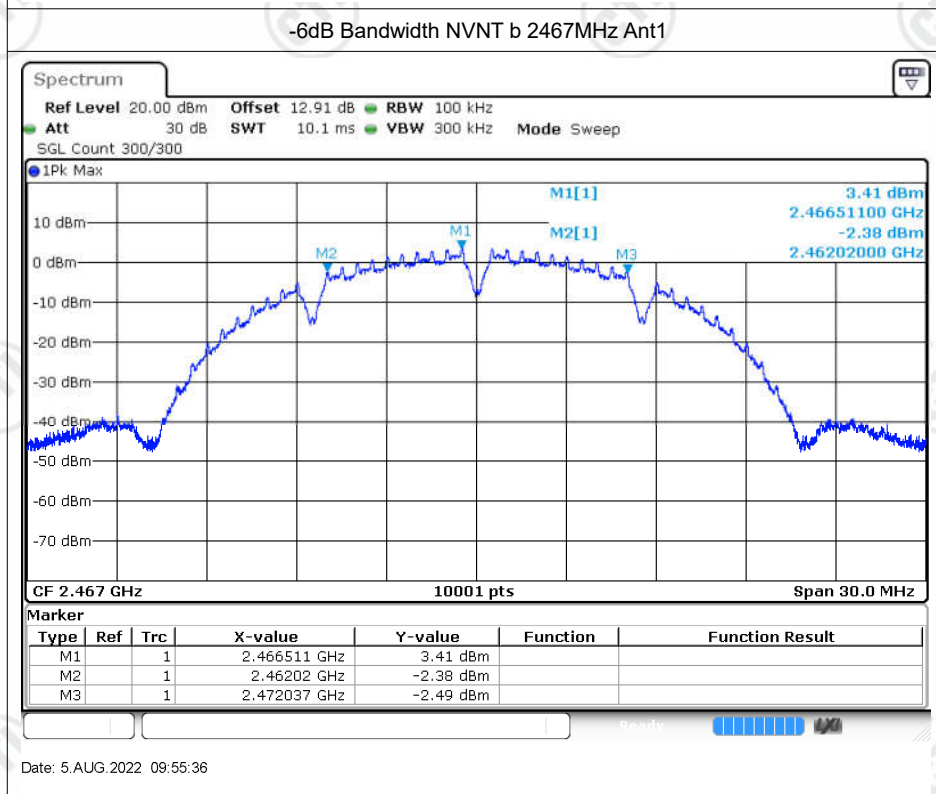
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.038	0.5	Pass
NVNT	b	2437	Ant1	10.041	0.5	Pass
NVNT	b	2462	Ant1	10.035	0.5	Pass
NVNT	b	2467	Ant1	10.017	0.5	Pass
NVNT	b	2472	Ant1	10.029	0.5	Pass
NVNT	g	2412	Ant1	16.413	0.5	Pass
NVNT	g	2437	Ant1	16.434	0.5	Pass
NVNT	g	2462	Ant1	16.401	0.5	Pass
NVNT	g	2467	Ant1	16.401	0.5	Pass
NVNT	g	2472	Ant1	16.413	0.5	Pass
NVNT	n20	2412	Ant1	17.604	0.5	Pass
NVNT	n20	2437	Ant1	17.604	0.5	Pass
NVNT	n20	2462	Ant1	17.595	0.5	Pass
NVNT	n20	2467	Ant1	17.595	0.5	Pass
NVNT	n20	2472	Ant1	17.589	0.5	Pass
NVNT	n40	2422	Ant1	36.318	0.5	Pass
NVNT	n40	2437	Ant1	36.318	0.5	Pass
NVNT	n40	2452	Ant1	36.318	0.5	Pass
NVNT	n40	2457	Ant1	36.324	0.5	Pass
NVNT	n40	2462	Ant1	36.324	0.5	Pass

Test graphs:

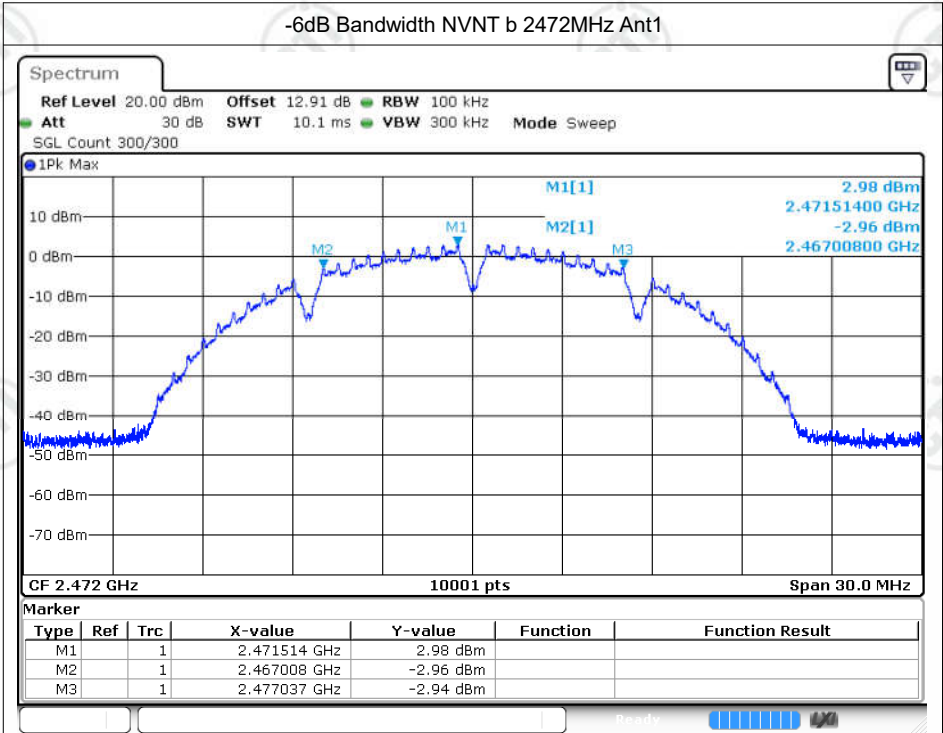




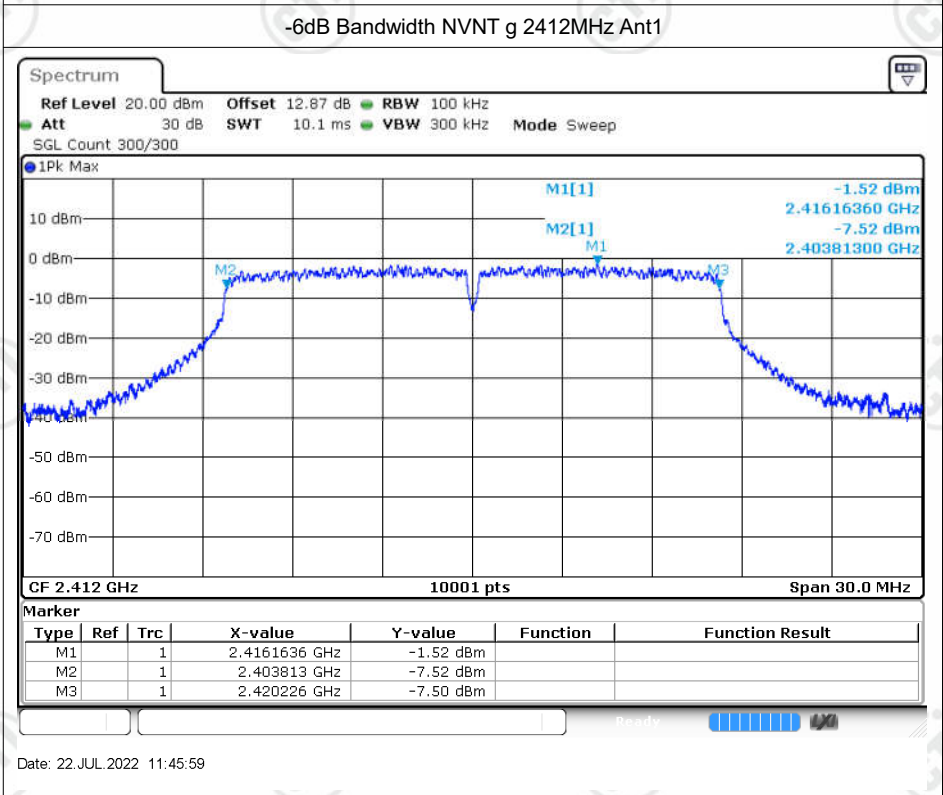
Date: 22.JUL.2022 11:32:57



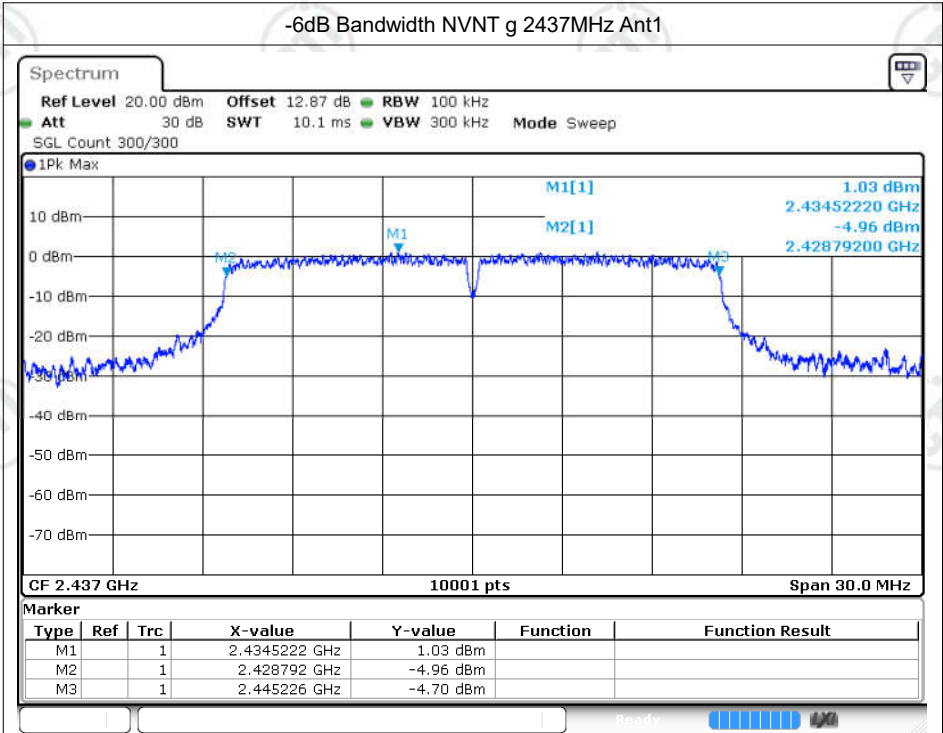
Date: 5.AUG.2022 09:55:36



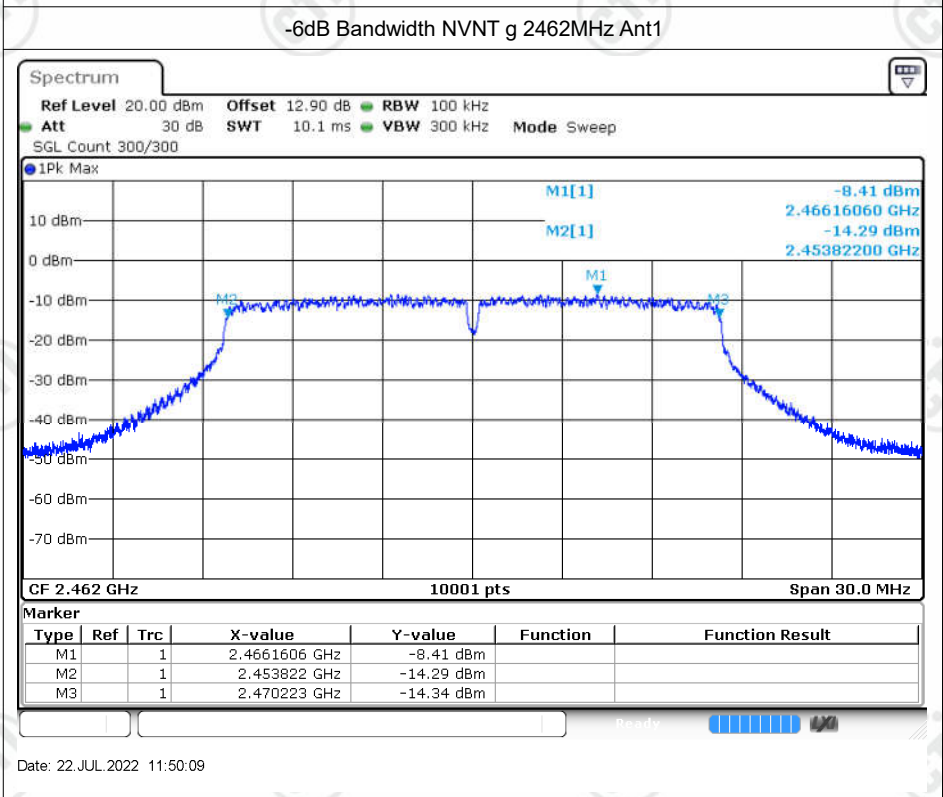
Date: 5.AUG.2022 09:54:04



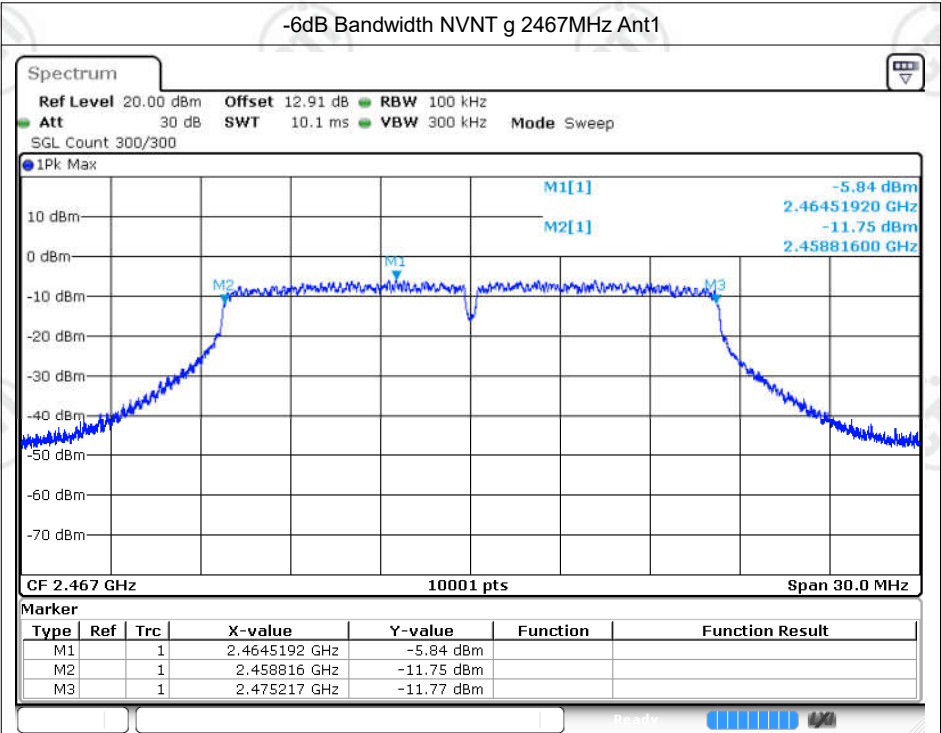
Date: 22.JUL.2022 11:45:59



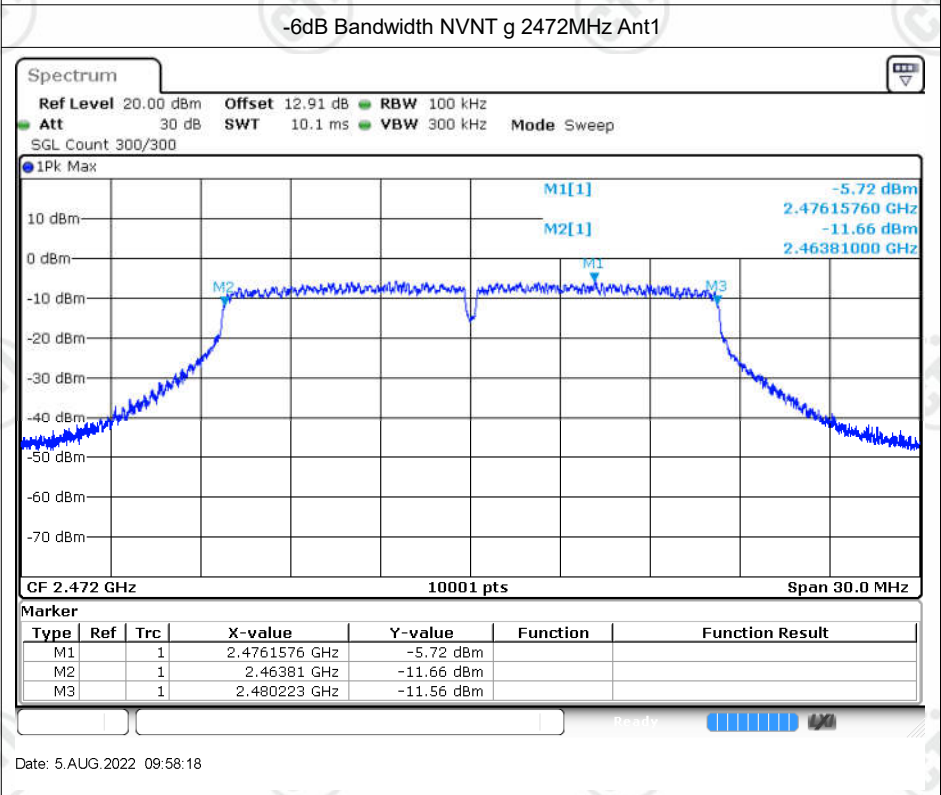
Date: 22.JUL.2022 11:48:19



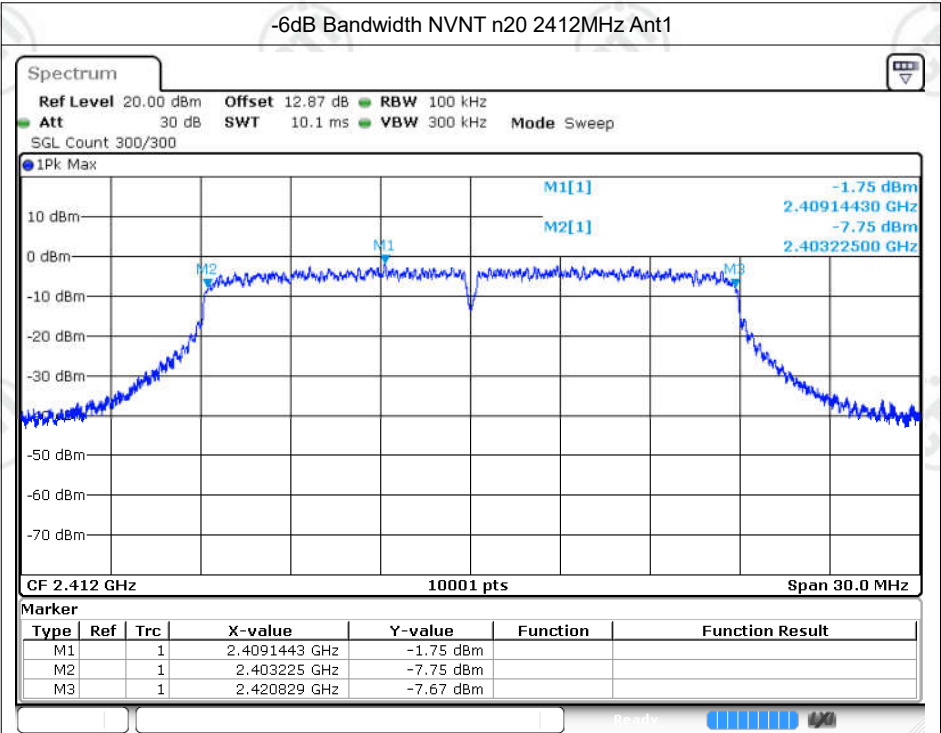
Date: 22.JUL.2022 11:50:09



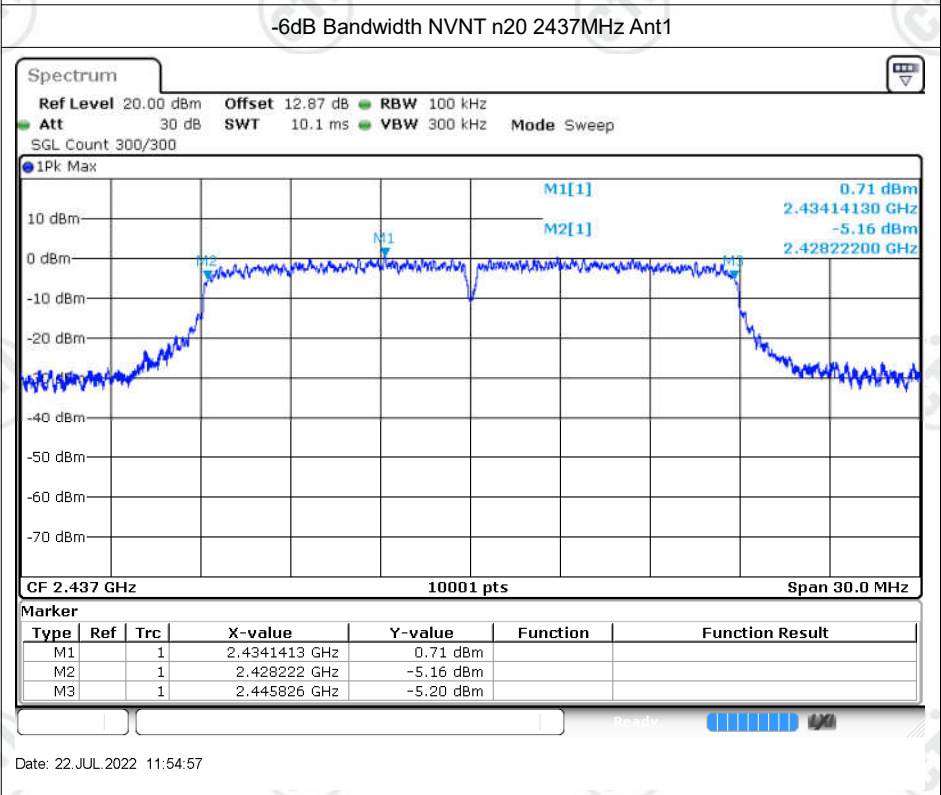
Date: 5.AUG.2022 10:00:01



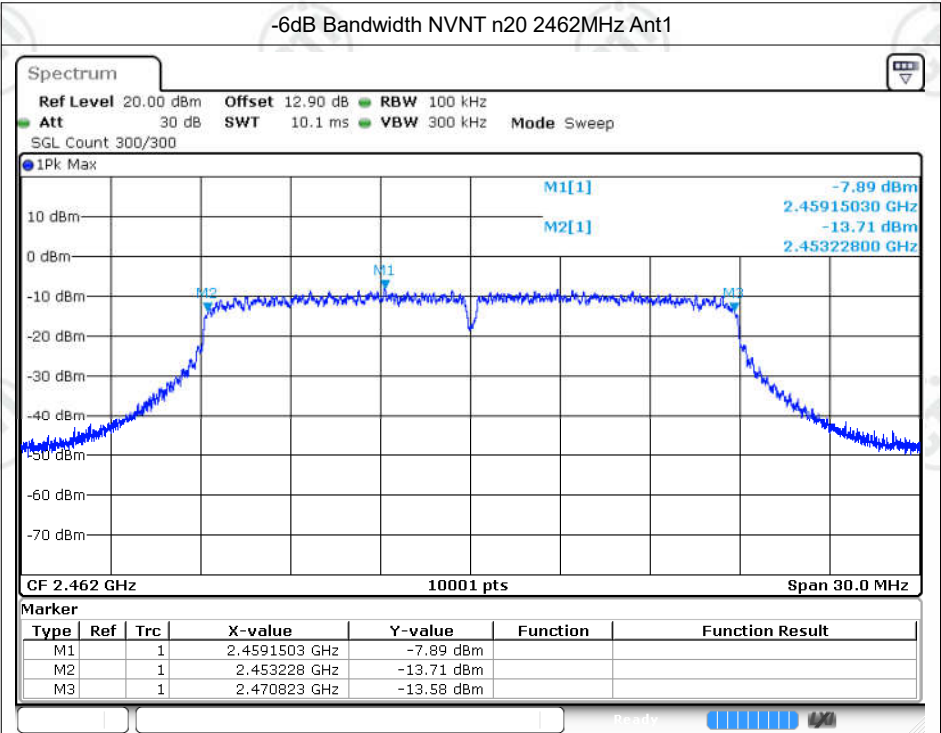
Date: 5.AUG.2022 09:58:18



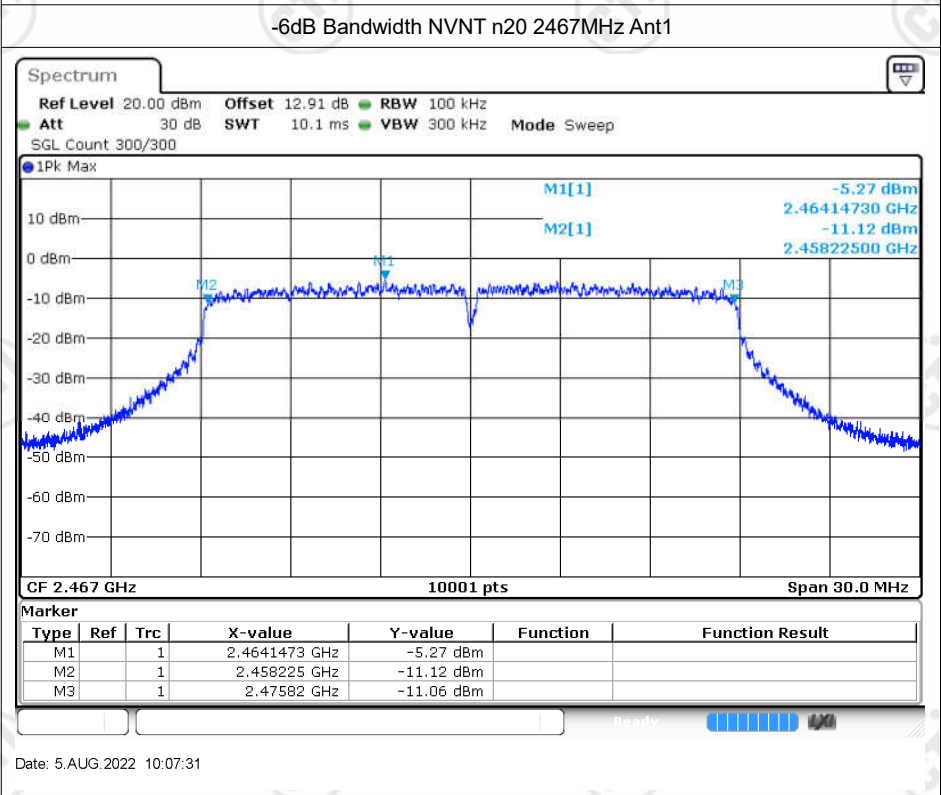
Date: 22 JUL 2022 11:53:01



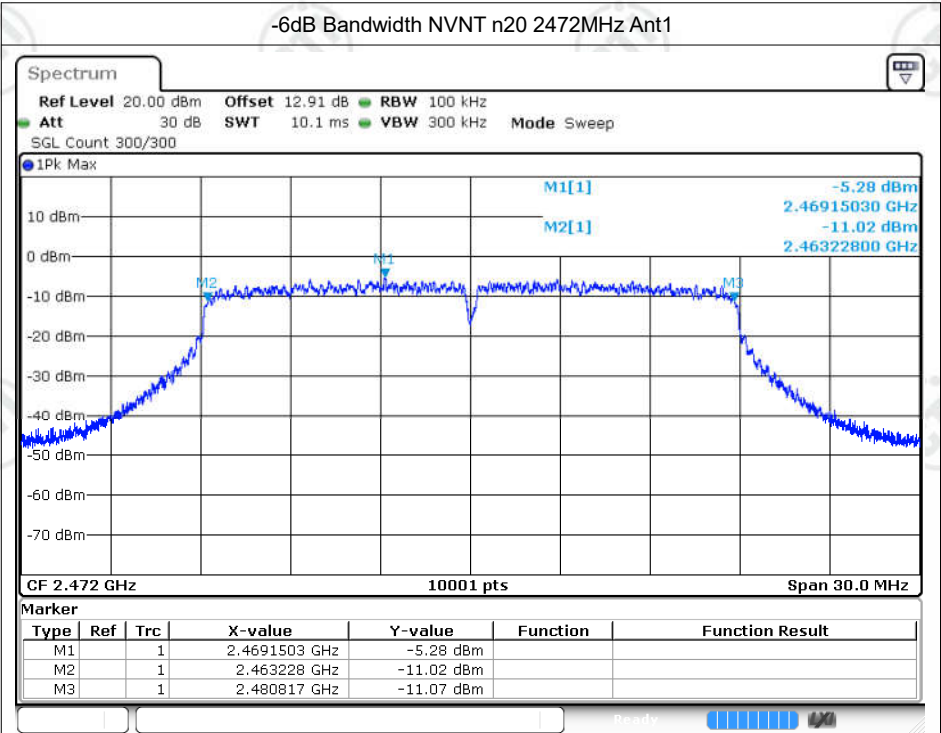
Date: 22 JUL 2022 11:54:57



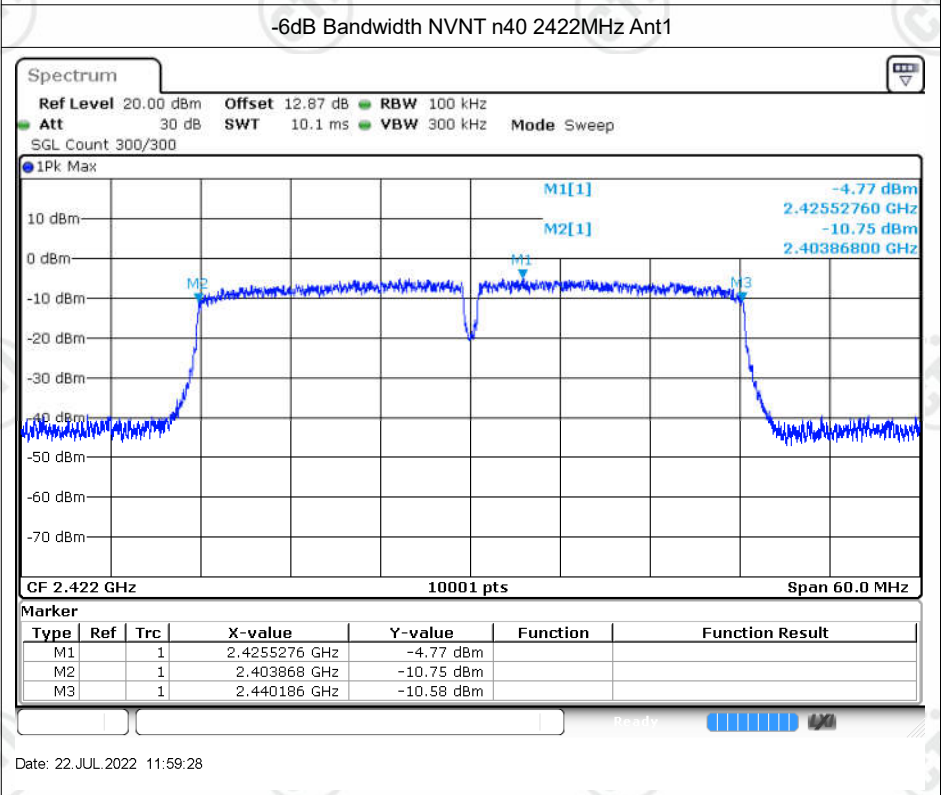
Date: 22.JUL.2022 11:56:52



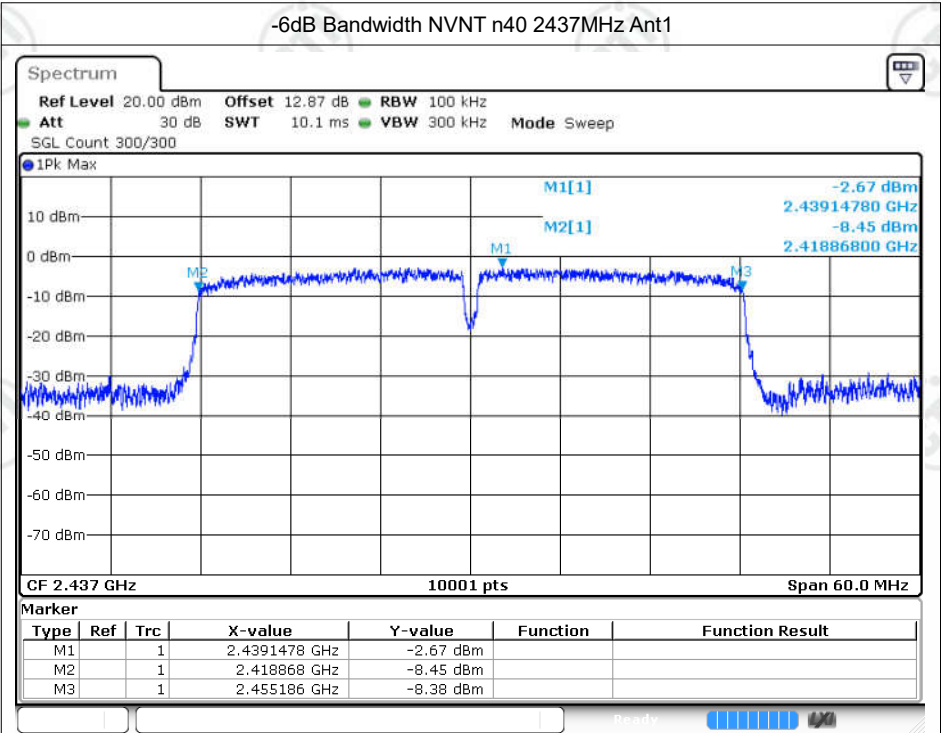
Date: 5.AUG.2022 10:07:31



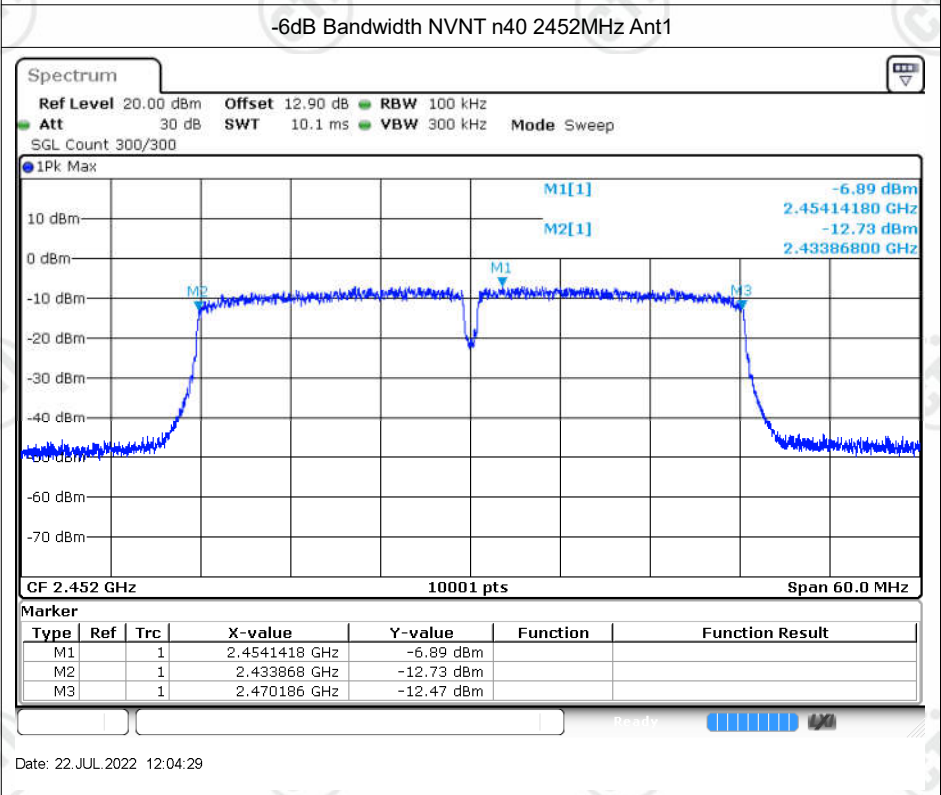
Date: 5.AUG.2022 10:05:14



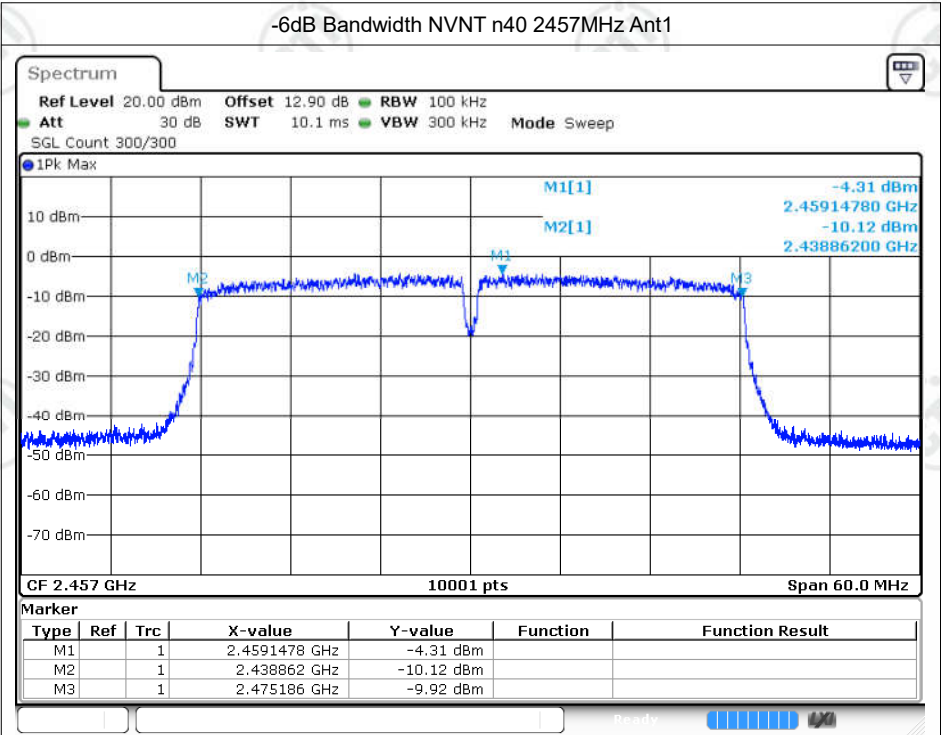
Date: 22.JUL.2022 11:59:28



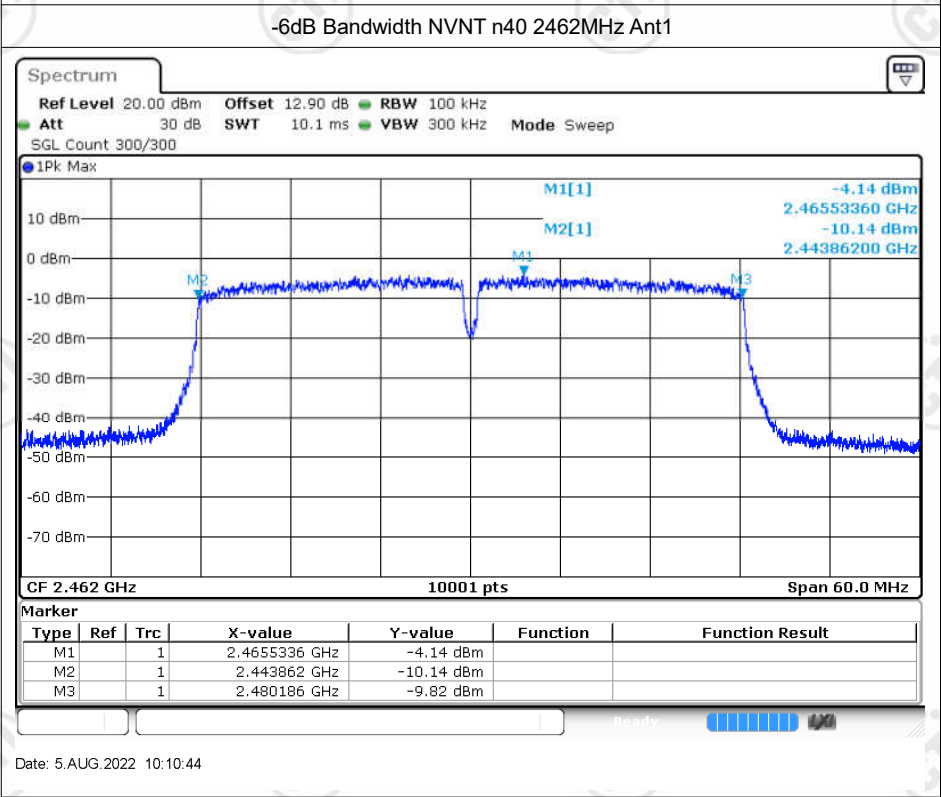
Date: 22.JUL.2022 12:02:05



Date: 22.JUL.2022 12:04:29



Date: 5.AUG.2022 10:14:58



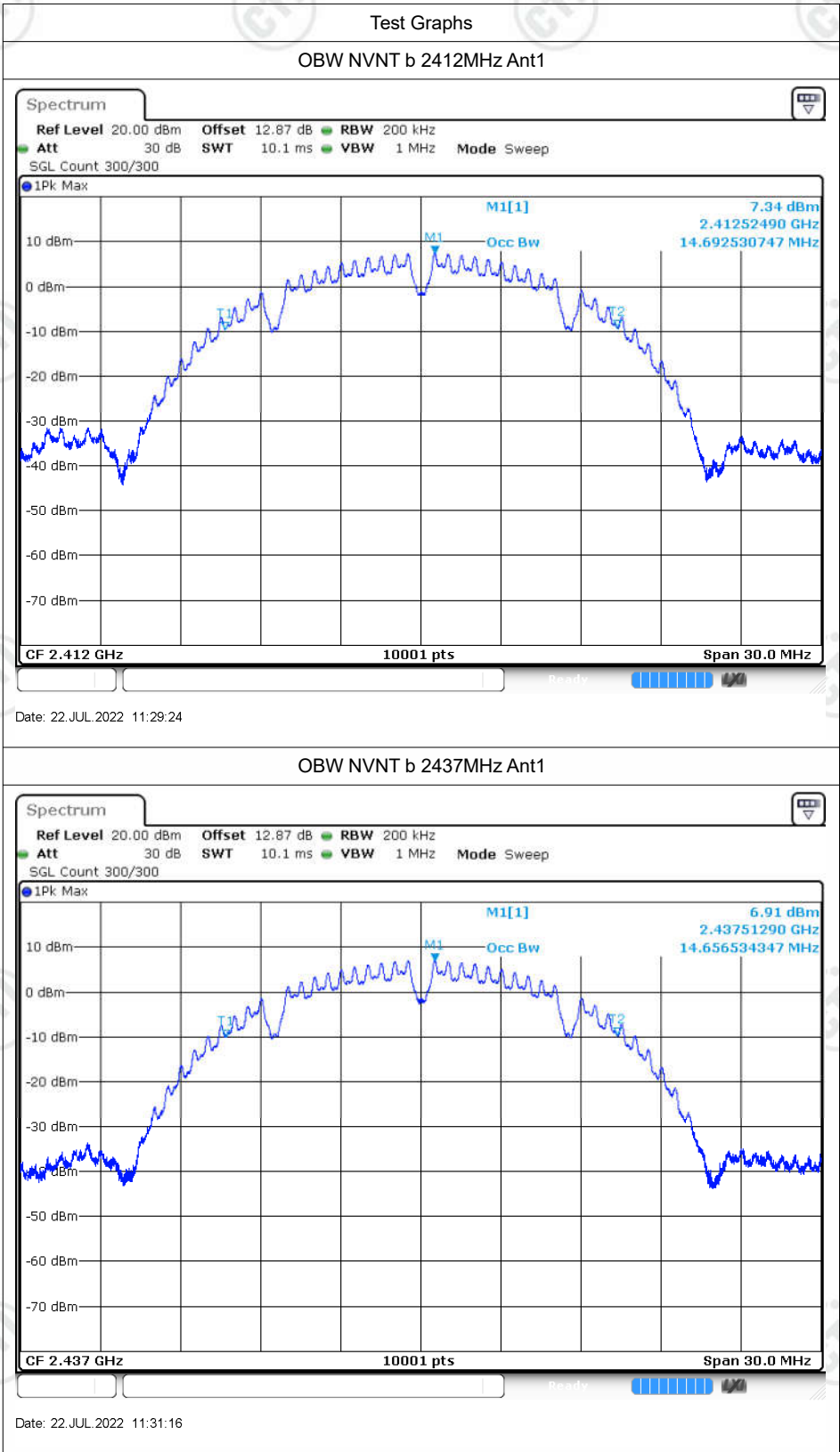
Date: 5.AUG.2022 10:10:44

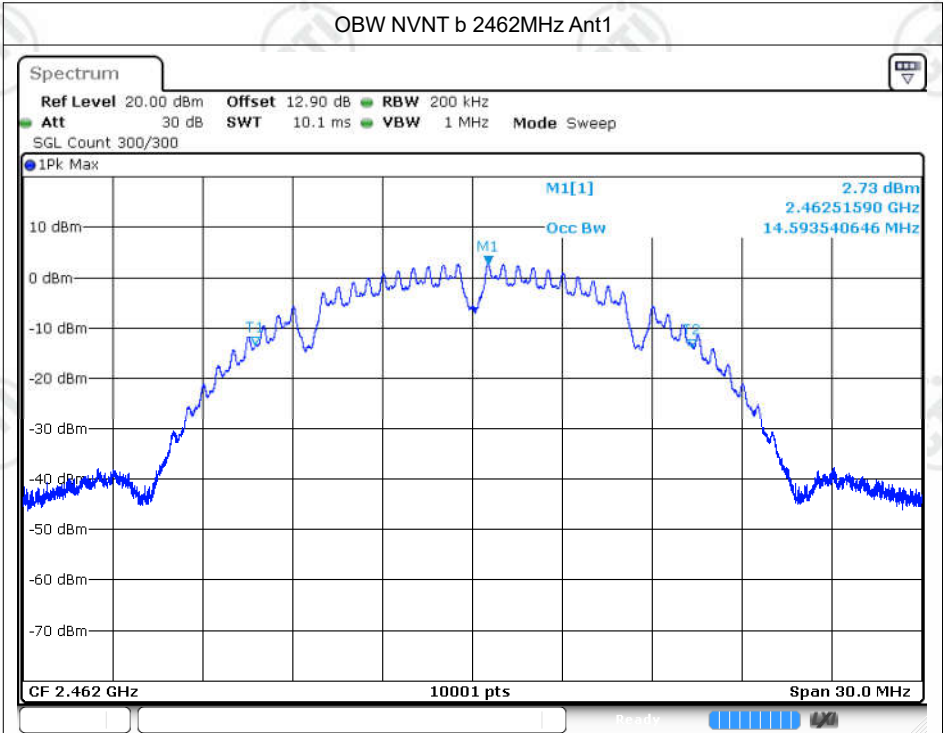
4.Occupied Channel Bandwidth

Test data:

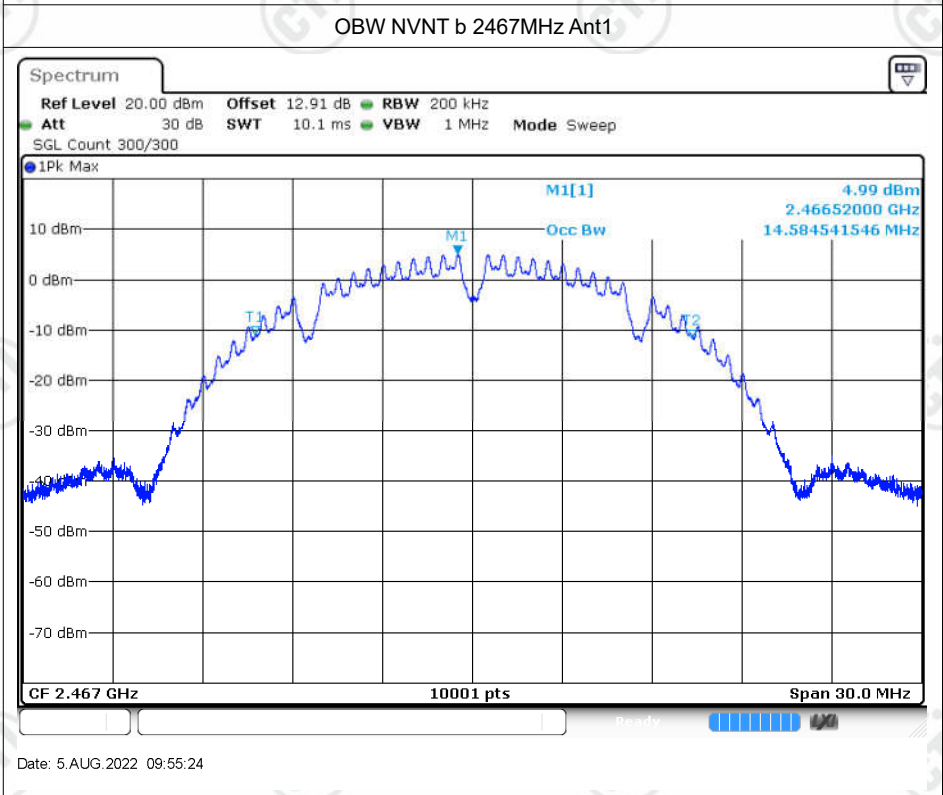
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.693
NVNT	b	2437	Ant1	14.657
NVNT	b	2462	Ant1	14.594
NVNT	b	2467	Ant1	14.585
NVNT	b	2472	Ant1	14.636
NVNT	g	2412	Ant1	16.507
NVNT	g	2437	Ant1	16.594
NVNT	g	2462	Ant1	16.504
NVNT	g	2467	Ant1	16.498
NVNT	g	2472	Ant1	16.498
NVNT	n20	2412	Ant1	17.644
NVNT	n20	2437	Ant1	17.71
NVNT	n20	2462	Ant1	17.626
NVNT	n20	2467	Ant1	17.623
NVNT	n20	2472	Ant1	17.623
NVNT	n40	2422	Ant1	35.72
NVNT	n40	2437	Ant1	35.81
NVNT	n40	2452	Ant1	35.72
NVNT	n40	2457	Ant1	35.708
NVNT	n40	2462	Ant1	35.708

Test graphs:

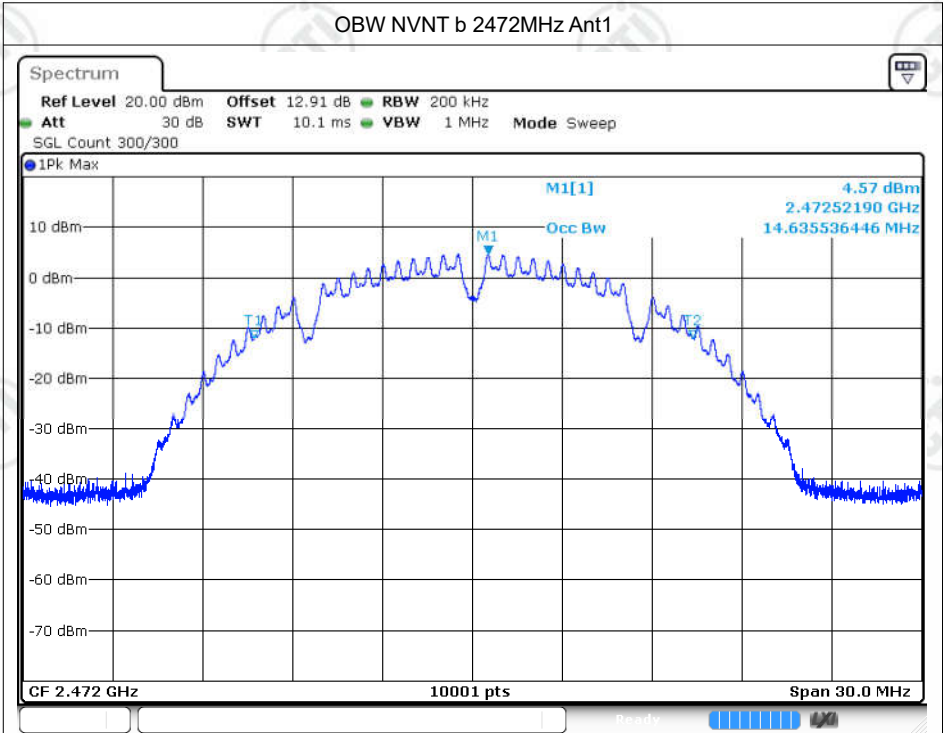




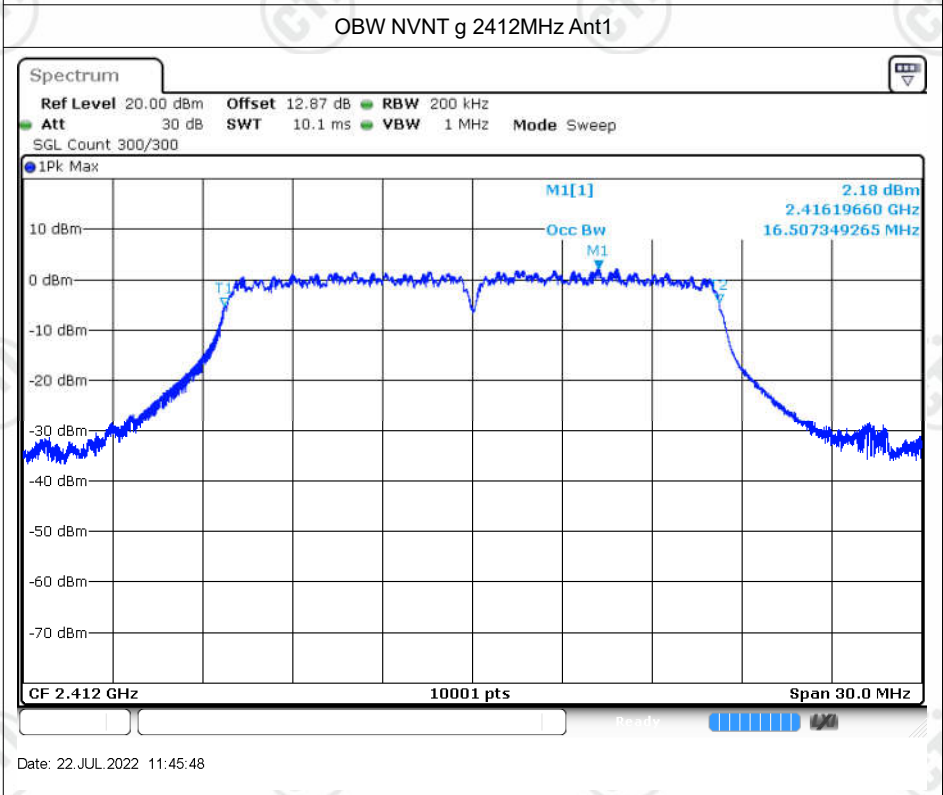
Date: 22.JUL.2022 11:32:45



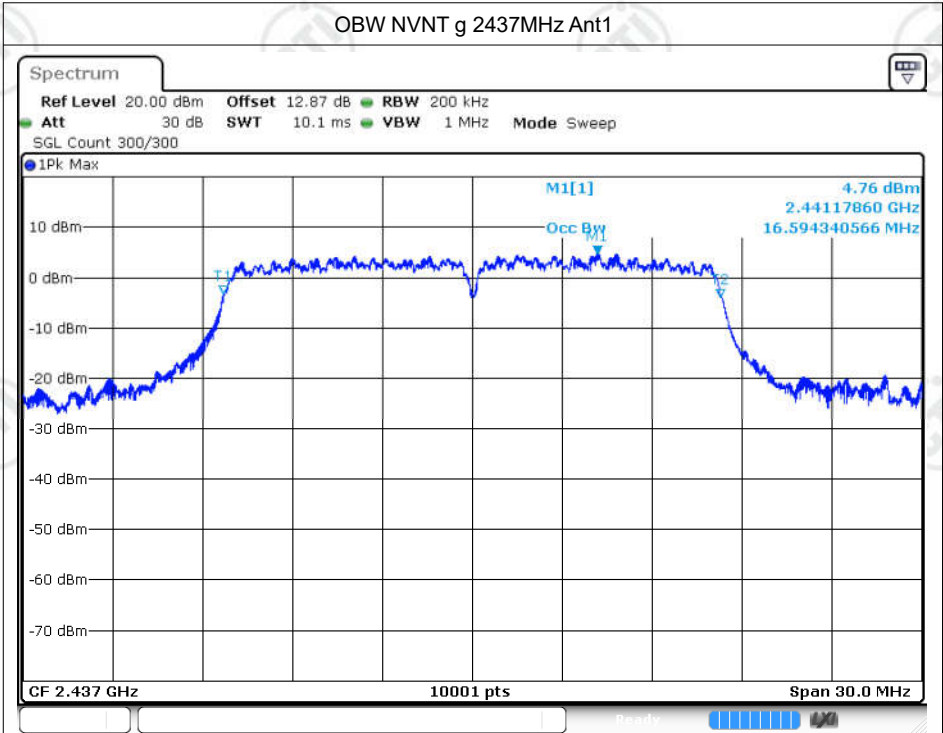
Date: 5.AUG.2022 09:55:24



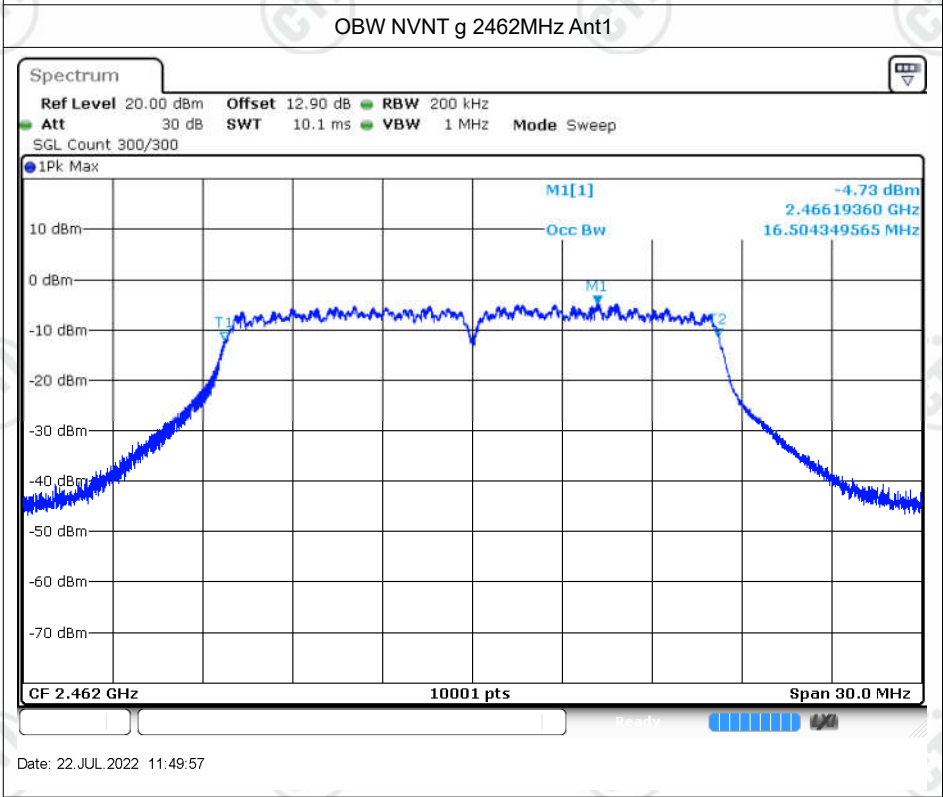
Date: 5.AUG.2022 09:53:52



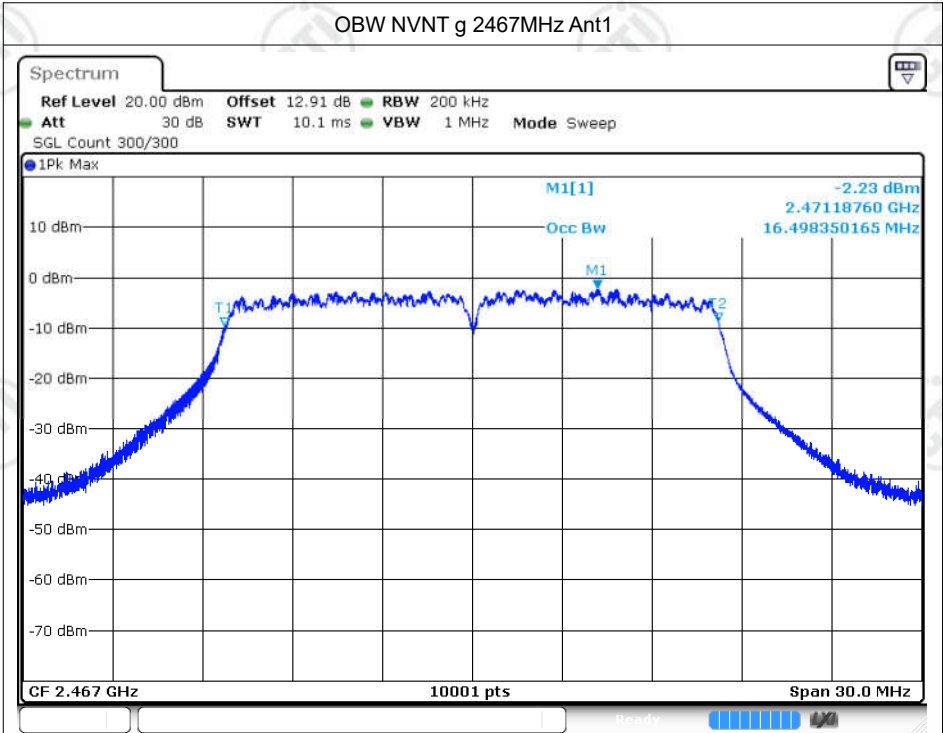
Date: 22.JUL.2022 11:45:48



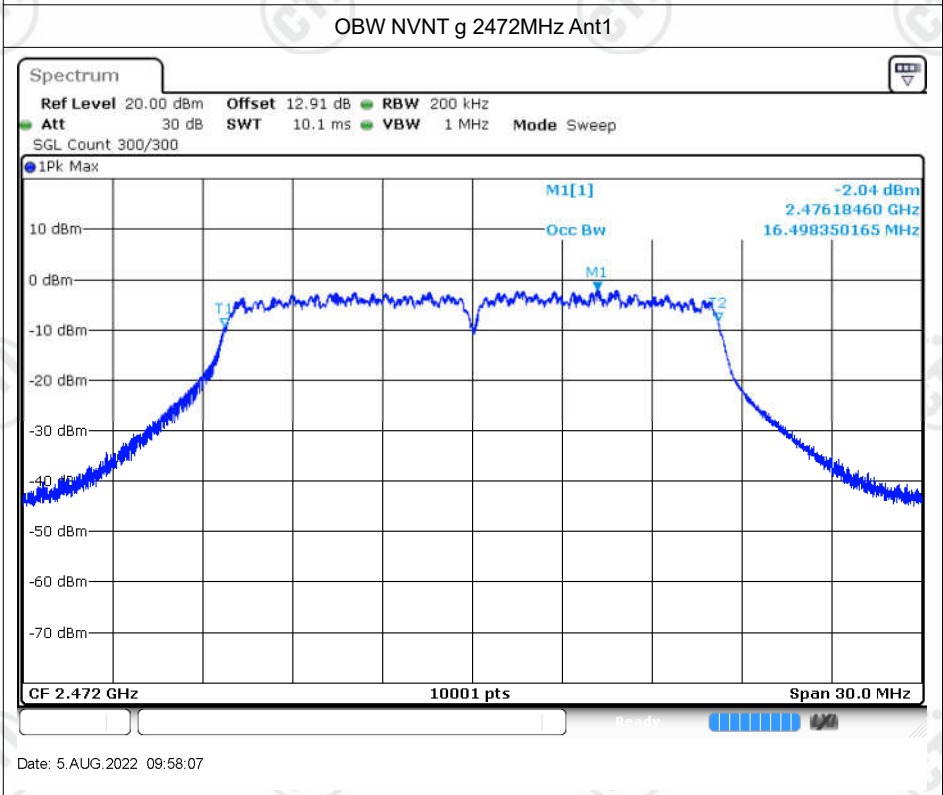
Date: 22.JUL.2022 11:48:08



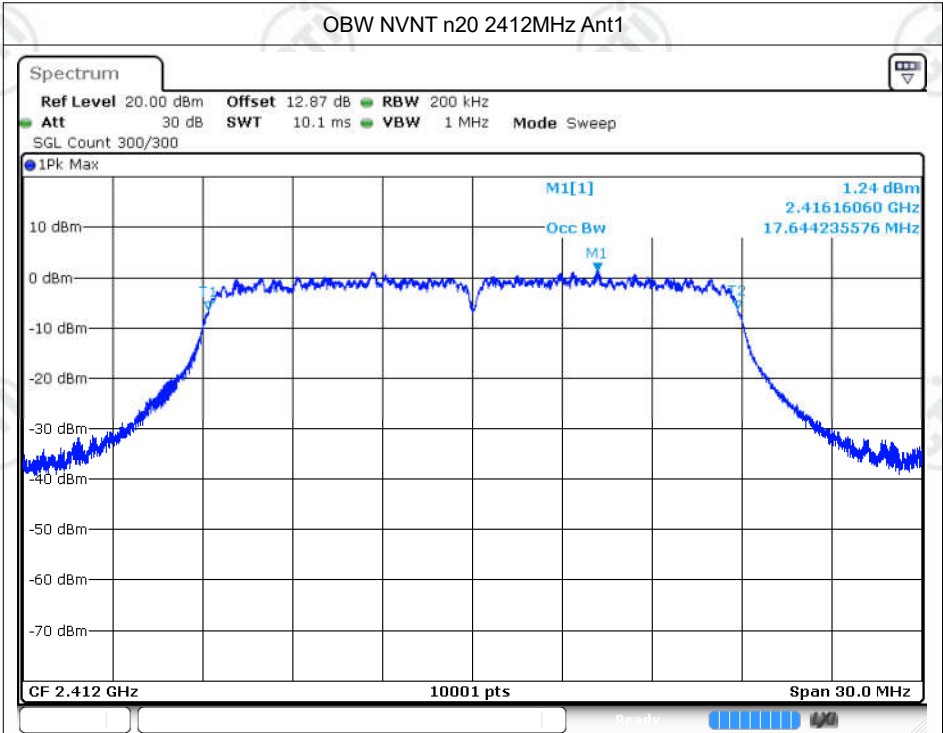
Date: 22.JUL.2022 11:49:57



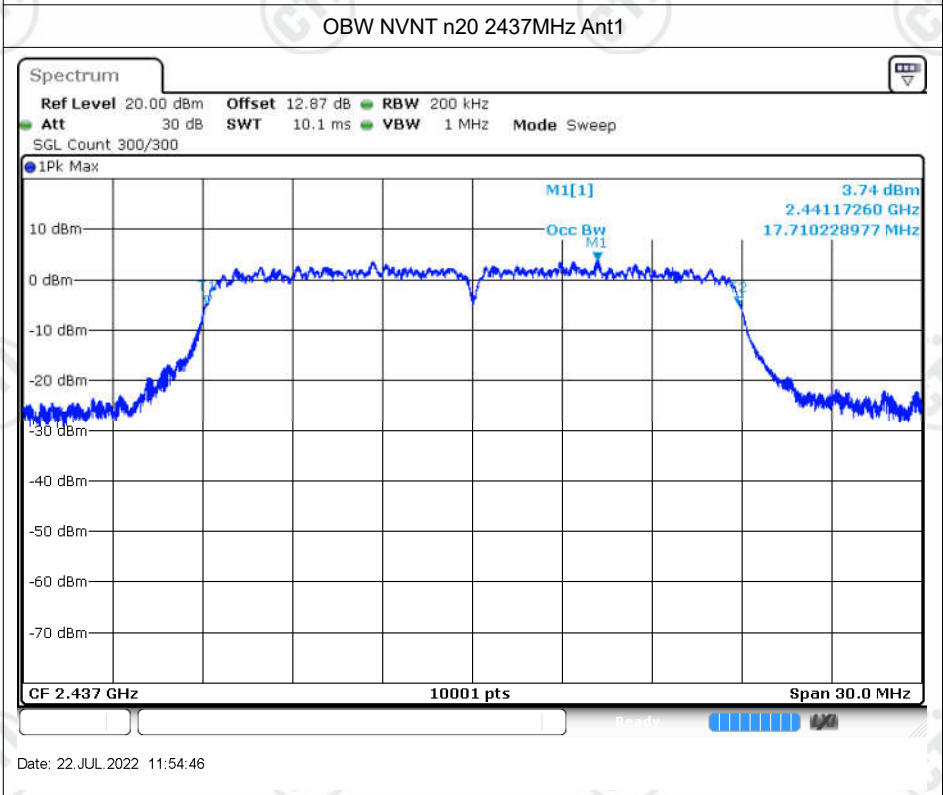
Date: 5.AUG.2022 09:59:49



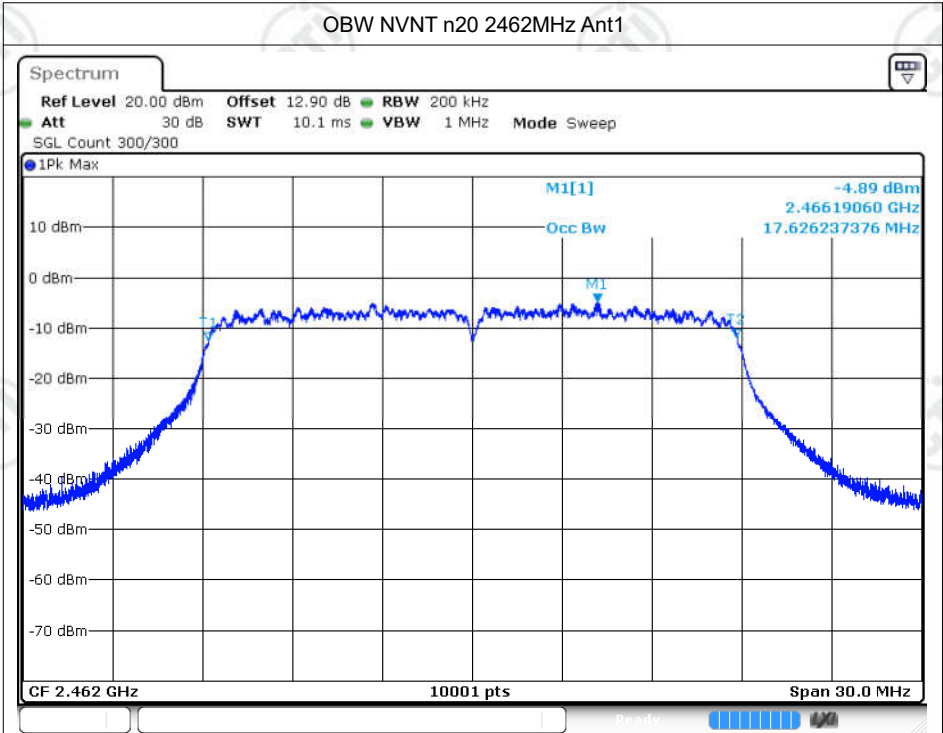
Date: 5.AUG.2022 09:58:07



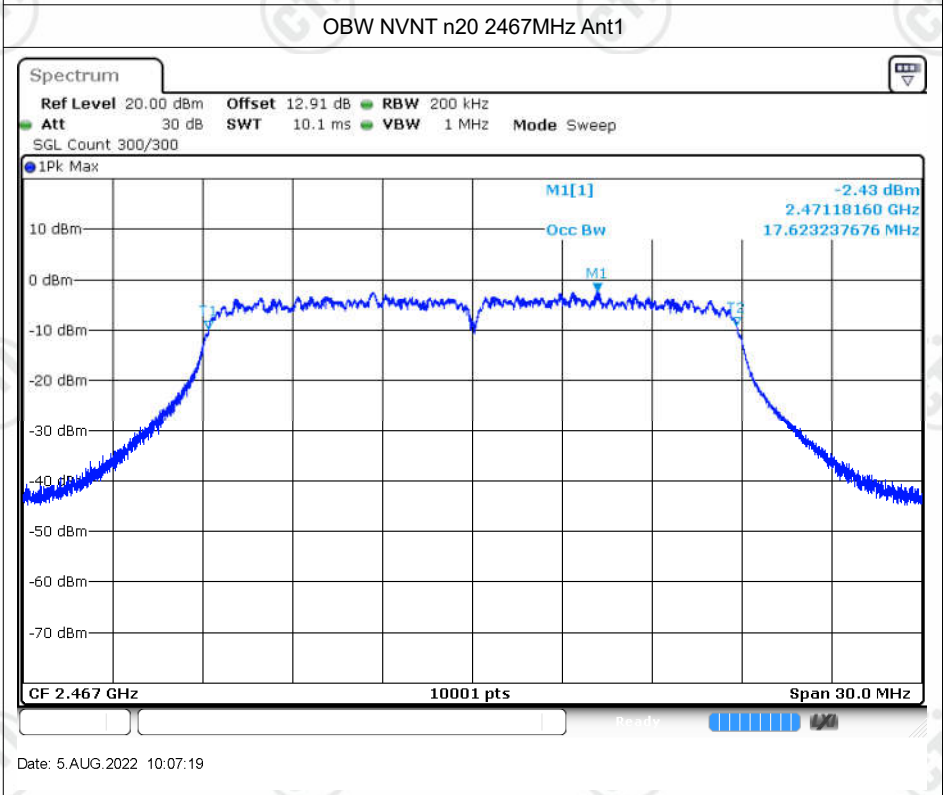
Date: 22.JUL.2022 11:52:51



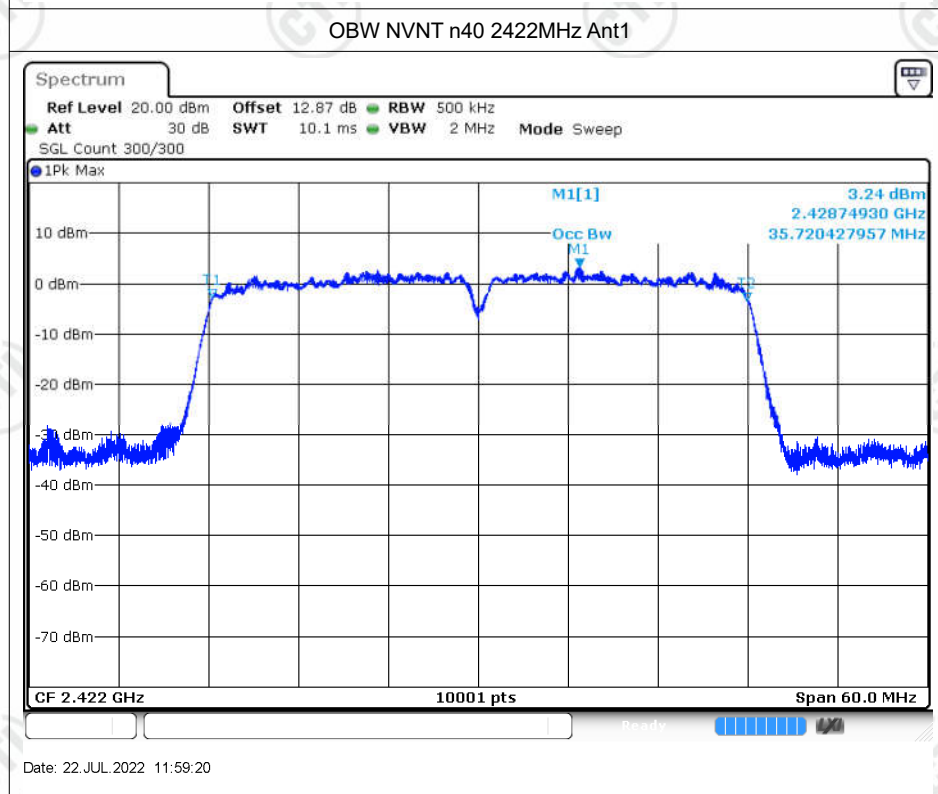
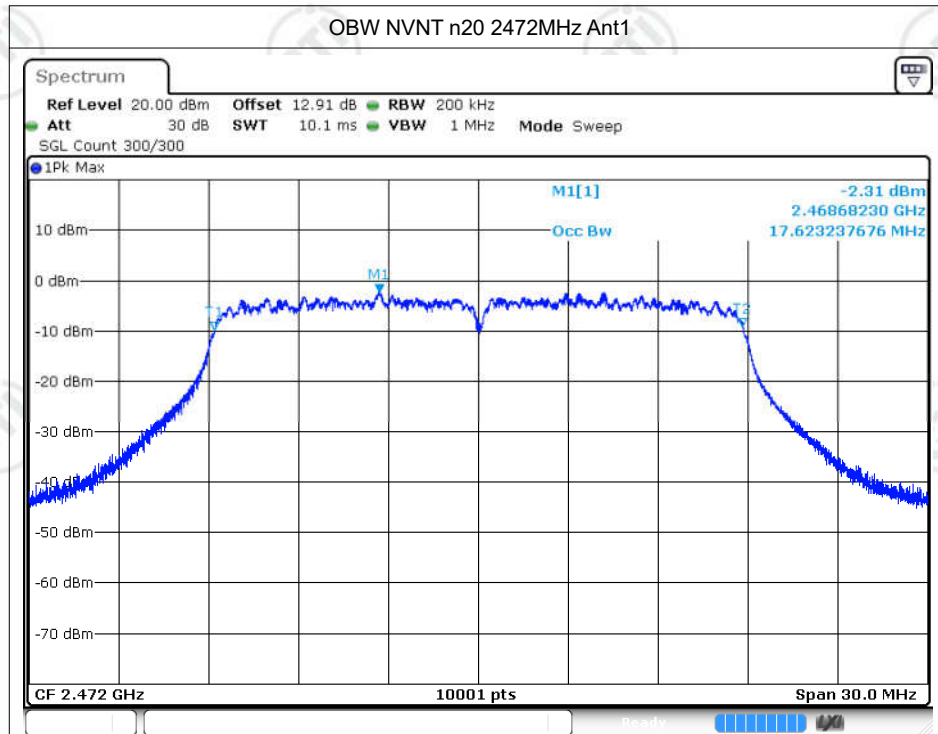
Date: 22.JUL.2022 11:54:46

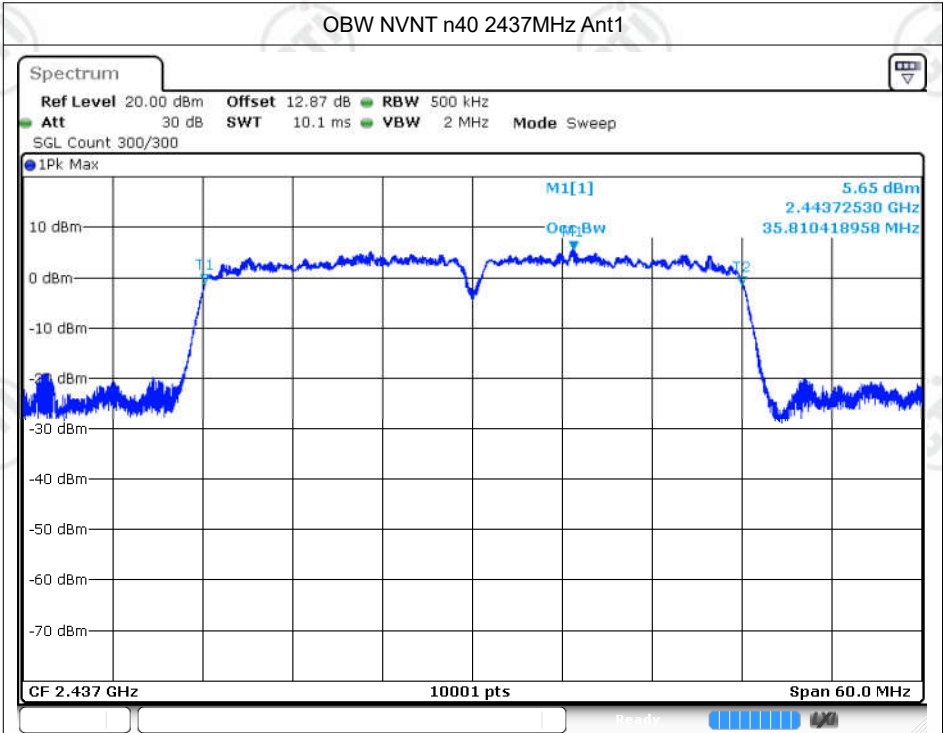


Date: 22.JUL.2022 11:56:40

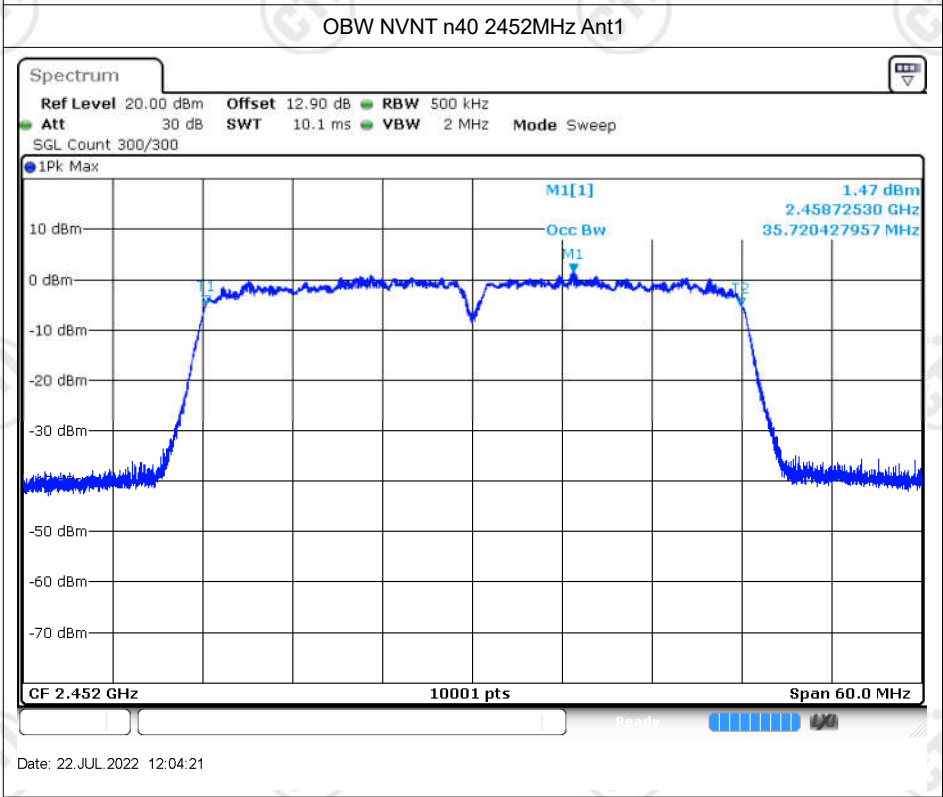


Date: 5.AUG.2022 10:07:19

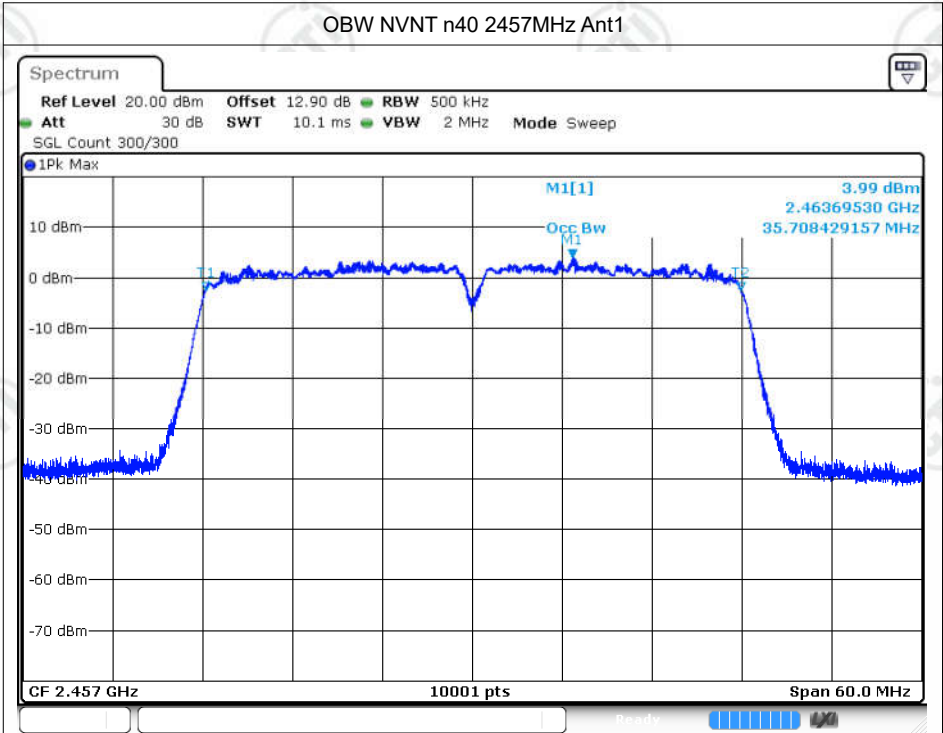




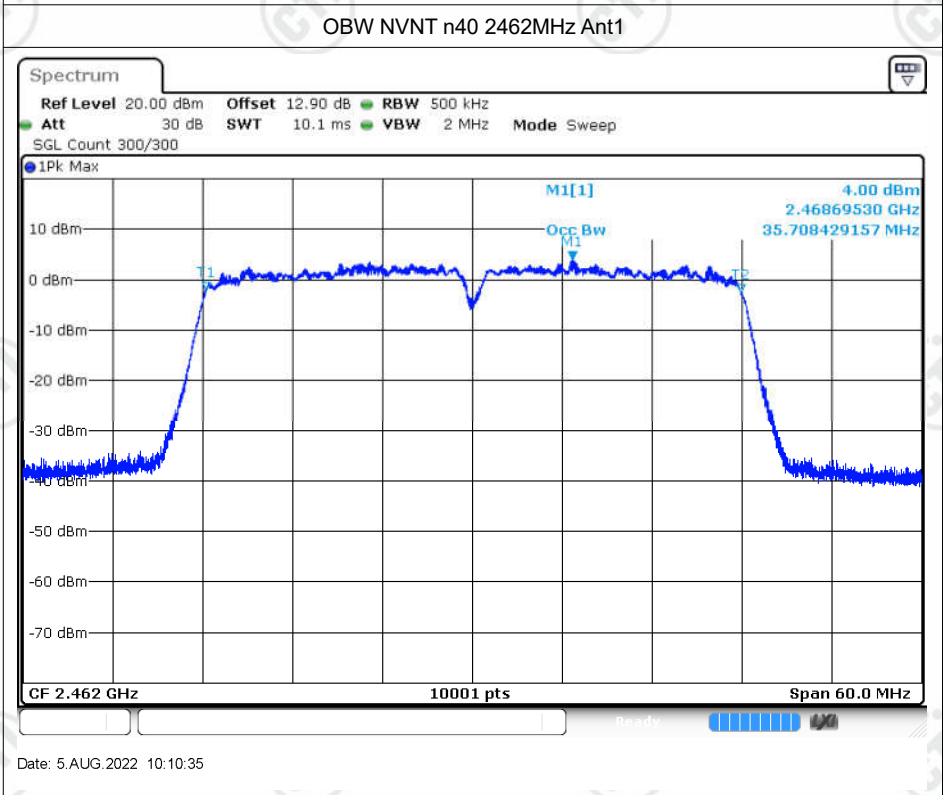
Date: 22.JUL.2022 12:01:57



Date: 22.JUL.2022 12:04:21



Date: 5.AUG.2022 10:14:50



Date: 5.AUG.2022 10:10:35

5.Maximum Power Spectral Density Level

Test data:

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-14.4	0	-14.4	8	Pass
NVNT	b	2437	Ant1	-14.78	0	-14.78	8	Pass
NVNT	b	2462	Ant1	-18.93	0	-18.93	8	Pass
NVNT	b	2467	Ant1	-16.67	0	-16.67	8	Pass
NVNT	b	2472	Ant1	-17.11	0	-17.11	8	Pass
NVNT	g	2412	Ant1	-15.9	0	-15.9	8	Pass
NVNT	g	2437	Ant1	-13.28	0	-13.28	8	Pass
NVNT	g	2462	Ant1	-22.74	0	-22.74	8	Pass
NVNT	g	2467	Ant1	-20.19	0	-20.19	8	Pass
NVNT	g	2472	Ant1	-20.04	0	-20.04	8	Pass
NVNT	n20	2412	Ant1	-15.89	0	-15.89	8	Pass
NVNT	n20	2437	Ant1	-13.44	0	-13.44	8	Pass
NVNT	n20	2462	Ant1	-22.45	0	-22.45	8	Pass
NVNT	n20	2467	Ant1	-19.5	0	-19.5	8	Pass
NVNT	n20	2472	Ant1	-19.44	0	-19.44	8	Pass
NVNT	n40	2422	Ant1	-15.93	0	-15.93	8	Pass
NVNT	n40	2437	Ant1	-13.53	0	-13.53	8	Pass
NVNT	n40	2452	Ant1	-17.79	0	-17.79	8	Pass
NVNT	n40	2457	Ant1	-15.31	0	-15.31	8	Pass
NVNT	n40	2462	Ant1	-15.36	0	-15.36	8	Pass