

Test Information:

Serial No.:	2NI0-2	Test Date:	2024/07/02~2024/08/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su	Test Result:	N/A

Environmental Conditions:

Temperature: (°C):	26-26.5	Relative Humidity: (%)	57-68	ATM Pressure: (kPa)	100.2-101.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101591	2024/04/01	2025/03/31
R&S	Spectrum Analyzer	FSU26	200256	2024/04/01	2025/03/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Anritsu	Power Meter	ML2495A	1106009	2023/08/04	2024/08/03
Anritsu	Pulse Power Sensor	MA2411A	10780	2023/08/04	2024/08/03

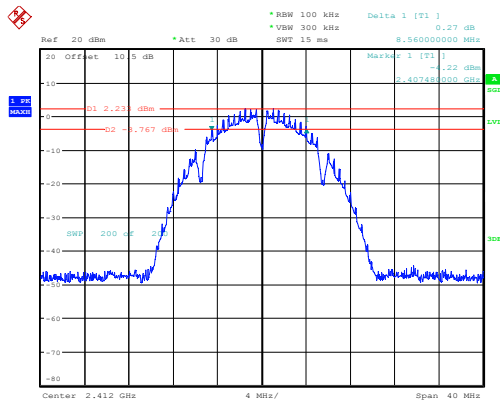
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

6dB Emission Bandwidth**2.4G**

Mode	Value (MHz)	Limit (MHz)	Result
b_2412MHz_Chain 0	8.560	≥ 0.5	Pass
b_2437MHz_Chain 0	8.120	≥ 0.5	Pass
b_2462MHz_Chain 0	8.160	≥ 0.5	Pass
g_2412MHz_Chain 0	16.440	≥ 0.5	Pass
g_2437MHz_Chain 0	16.400	≥ 0.5	Pass
g_2462MHz_Chain 0	16.480	≥ 0.5	Pass
n20_2412MHz_Chain 0	17.680	≥ 0.5	Pass
n20_2437MHz_Chain 0	17.680	≥ 0.5	Pass
n20_2462MHz_Chain 0	17.800	≥ 0.5	Pass

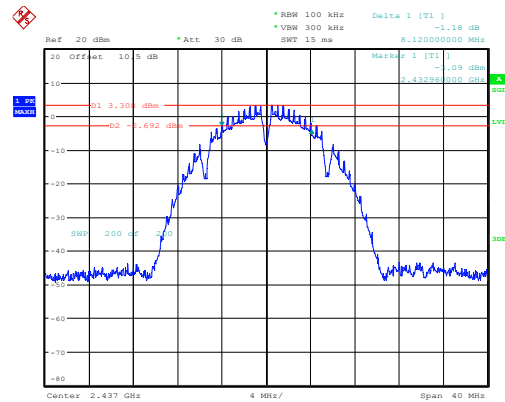
2.4G

b_2412MHz_Chain 0 8.560MHz



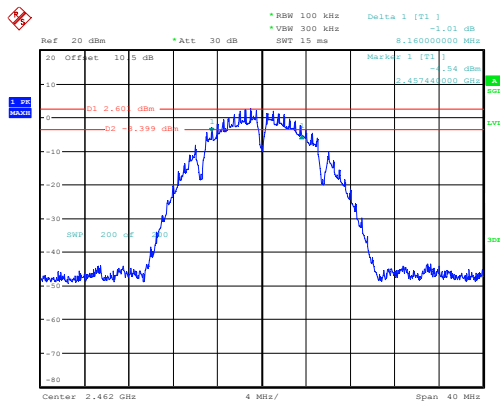
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:27:03

b_2437MHz_Chain 0 8.120MHz



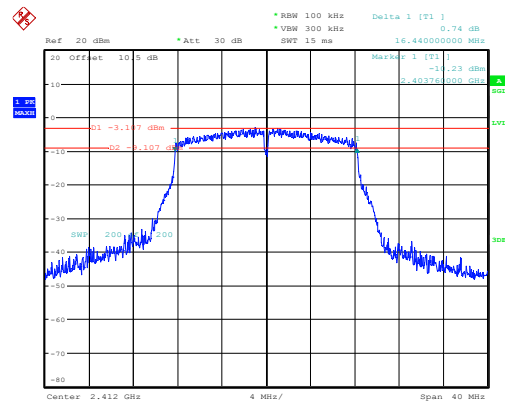
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Date: 5.AUG.2024 13:31:03

b_2462MHz_Chain 0 8.160MHz



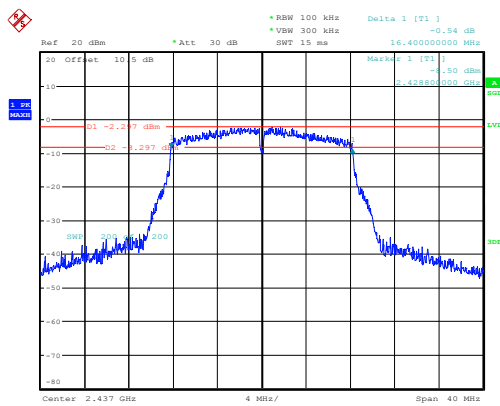
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:34:51

g_2412MHz_Chain 0 16.440MHz



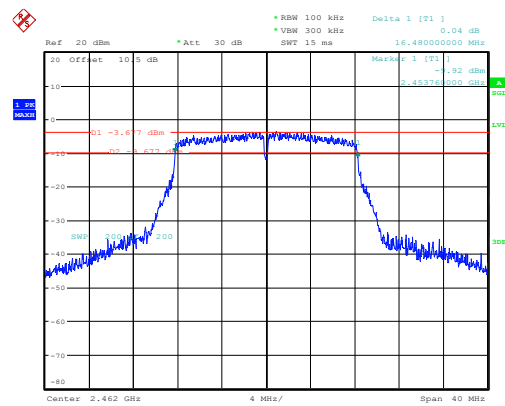
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g_2437MHz_Chain 0 16.400MHz



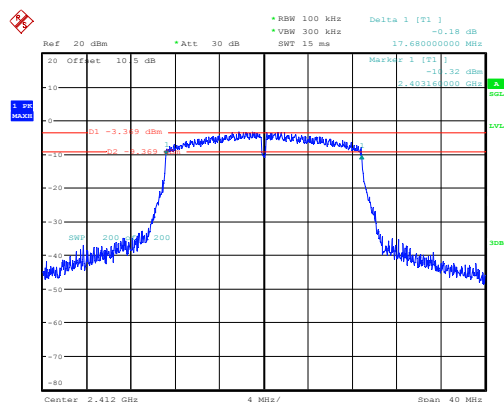
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:42:12

g_2462MHz_Chain 0 16.480MHz



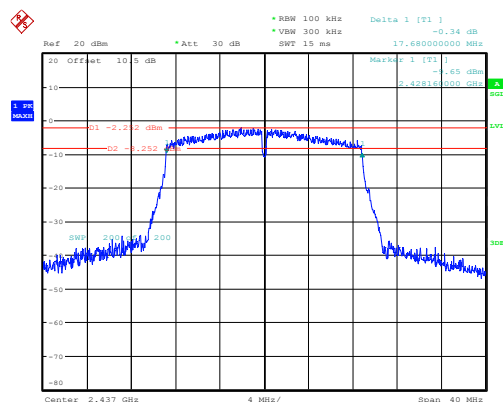
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:46:49

n20 2412MHz Chain 0 17.680MHz



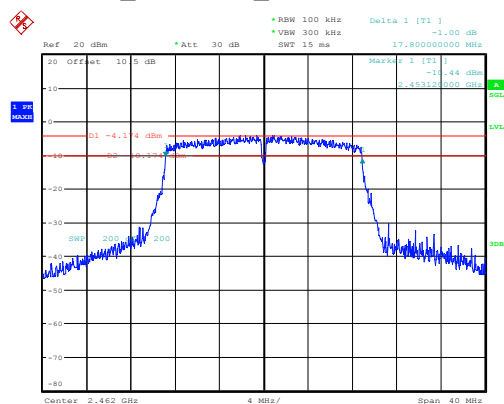
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:52:15

n20 2437MHz Chain 0 17.680MHz



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:54:47

n20 2462MHz Chain 0 17.800MHz



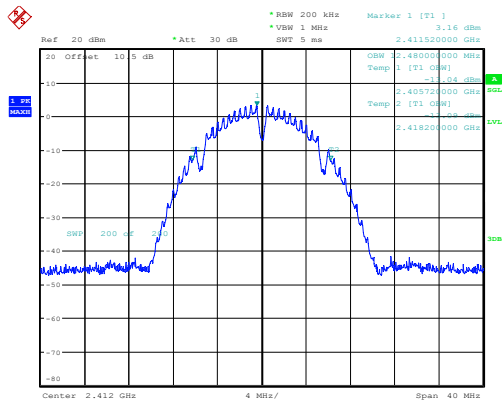
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:58:38

99% Occupied Bandwidth**2.4G**

Mode	99% OBW (MHz)
b_2412MHz_Chain 0	12.480
b_2437MHz_Chain 0	12.880
b_2462MHz_Chain 0	12.920
g_2412MHz_Chain 0	16.520
g_2437MHz_Chain 0	16.560
g_2462MHz_Chain 0	16.640
n20_2412MHz_Chain 0	17.600
n20_2437MHz_Chain 0	17.640
n20_2462MHz_Chain 0	17.720

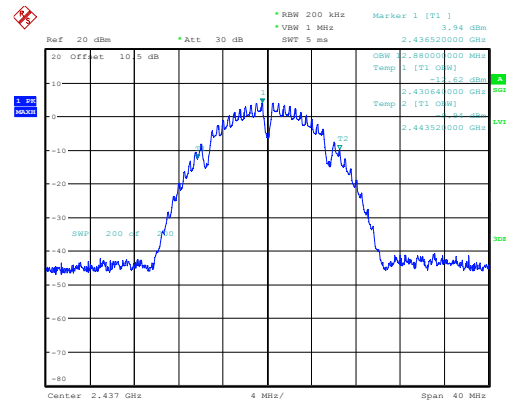
2.4G

b_2412MHz_Chain 0 12.480MHz



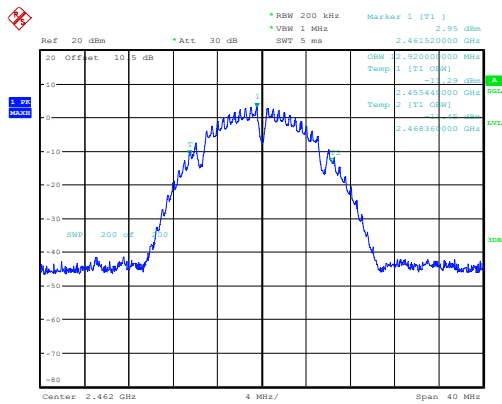
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Date: 5.AUG.2024 13:27:37

b_2437MHz_Chain 0 12.880MHz



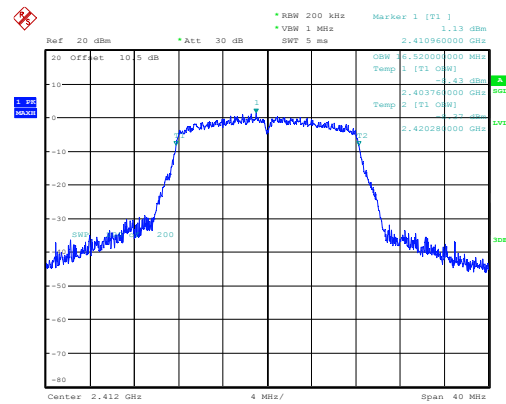
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Date: 5.AUG.2024 13:31:35

b_2462MHz_Chain 0 12.920MHz



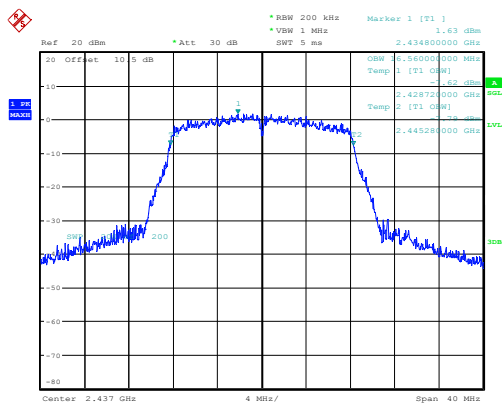
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Date: 5.AUG.2024 13:35:30

g_2412MHz_Chain 0 16.520MHz



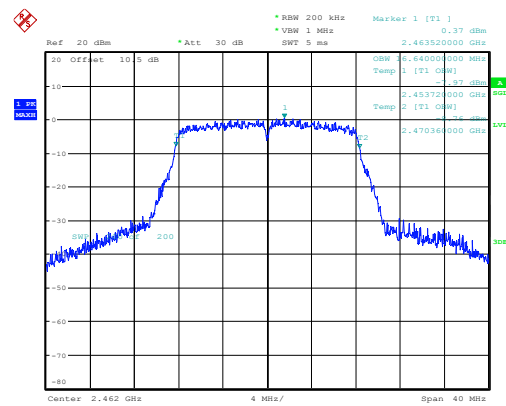
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Date: 5.AUG.2024 13:39:57

g_2437MHz_Chain 0 16.560MHz



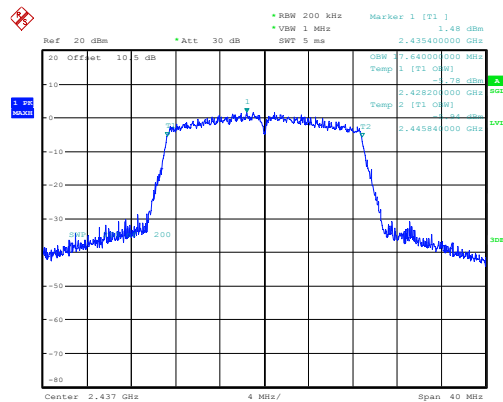
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:42:45

g_2462MHz_Chain 0 16.640MHz



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:47:29

n20 2437MHz Chain 0 17.640MHz



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:55:20

Maximum Conducted Output Power**2.4G**

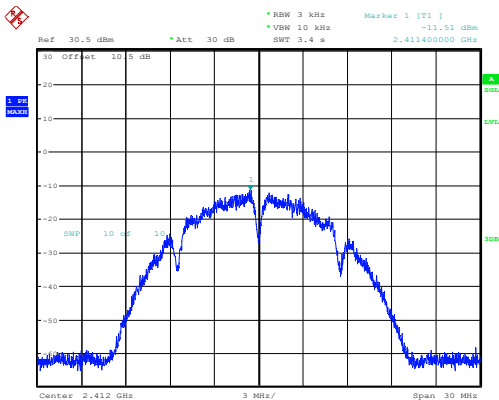
Mode	Peak Output Power (dBm)	Average Output Power (dBm)	Limit (dBm)	Result
b_2412MHz_Chain 0	13.56	10.52	30	Pass
b_2412MHz_Chain 1	16.97	13.92	30	Pass
b_2437MHz_Chain 0	14.35	11.37	30	Pass
b_2437MHz_Chain 1	17.56	14.36	30	Pass
b_2462MHz_Chain 0	13.86	10.30	30	Pass
b_2462MHz_Chain 1	17.55	14.37	30	Pass
g_2412MHz_Chain 0	18.04	9.83	30	Pass
g_2412MHz_Chain 1	20.63	12.39	30	Pass
g_2437MHz_Chain 0	18.96	10.71	30	Pass
g_2437MHz_Chain 1	20.67	12.41	30	Pass
g_2462MHz_Chain 0	18.11	9.78	30	Pass
g_2462MHz_Chain 1	20.54	12.21	30	Pass
n20_2412MHz_Chain 0	18.23	9.94	30	Pass
n20_2412MHz_Chain 1	21.58	13.37	30	Pass
n20_2437MHz_Chain 0	18.89	10.70	30	Pass
n20_2437MHz_Chain 1	21.59	13.21	30	Pass
n20_2462MHz_Chain 0	18.07	9.56	30	Pass
n20_2462MHz_Chain 1	21.54	13.33	30	Pass

Power Spectral Density**2.4G**

Mode	Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
b_2412MHz_Chain 0	-11.51	8	Pass
b_2412MHz_Chain 1	-7.58	8	Pass
b_2437MHz_Chain 0	-10.37	8	Pass
b_2437MHz_Chain 1	-7.23	8	Pass
b_2462MHz_Chain 0	-11.83	8	Pass
b_2462MHz_Chain 1	-7.63	8	Pass
g_2412MHz_Chain 0	-15.22	8	Pass
g_2412MHz_Chain 1	-11.59	8	Pass
g_2437MHz_Chain 0	-13.84	8	Pass
g_2437MHz_Chain 1	-11.94	8	Pass
g_2462MHz_Chain 0	-14.69	8	Pass
g_2462MHz_Chain 1	-12.22	8	Pass
n20_2412MHz_Chain 0	-14.66	8	Pass
n20_2412MHz_Chain 1	-11.04	8	Pass
n20_2437MHz_Chain 0	-14.37	8	Pass
n20_2437MHz_Chain 1	-11.23	8	Pass
n20_2462MHz_Chain 0	-15.04	8	Pass
n20_2462MHz_Chain 1	-10.69	8	Pass

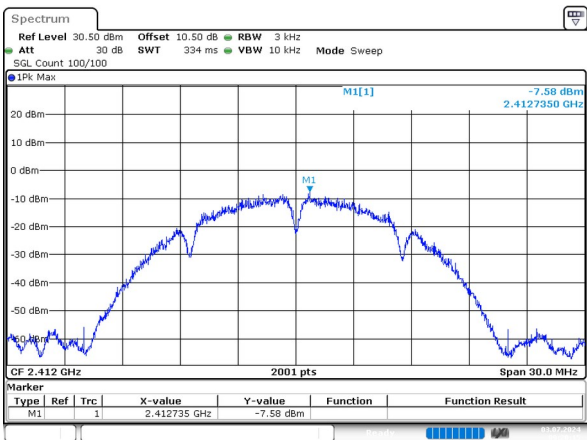
2.4G

b_2412MHz_Chain 0 -11.51dBm/3kHz



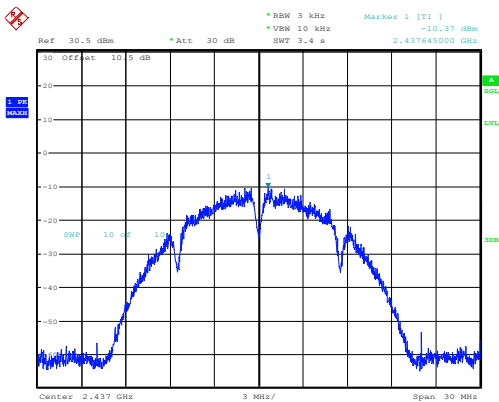
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:30:16

b_2412MHz_Chain 1 -7.58dBm/3kHz



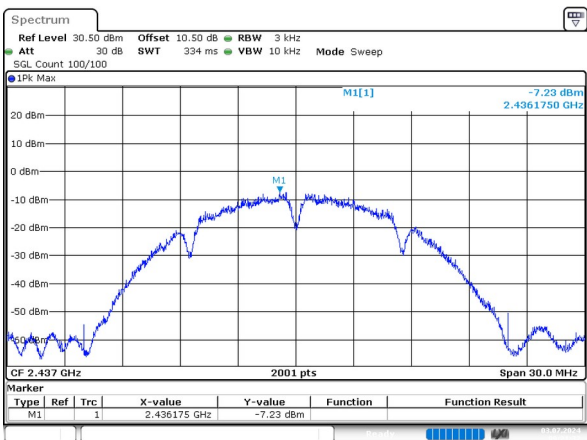
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 3.JUL.2024 09:20:15

b_2437MHz_Chain 0 -10.37dBm/3kHz



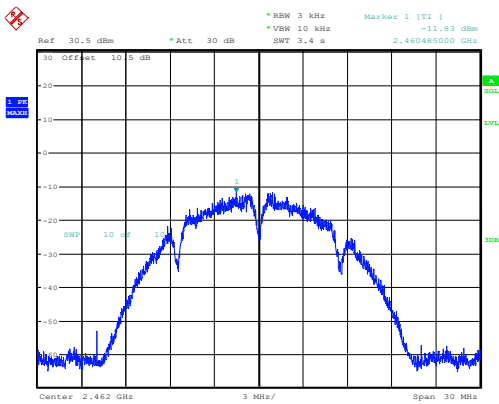
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Date: 5.AUG.2024 13:32:34

b_2437MHz_Chain 1 -7.23dBm/3kHz



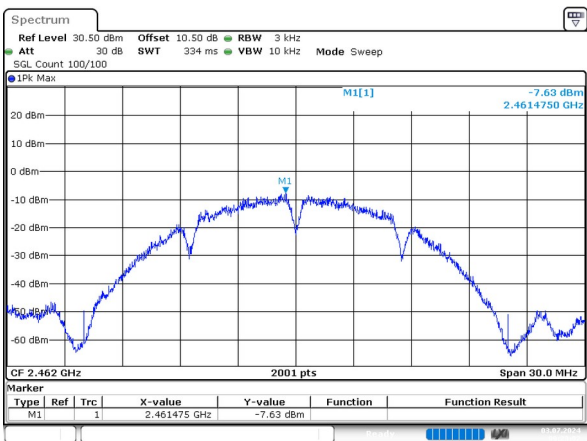
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 3.JUL.2024 09:21:32

b_2462MHz_Chain 0 -11.83dBm/3kHz



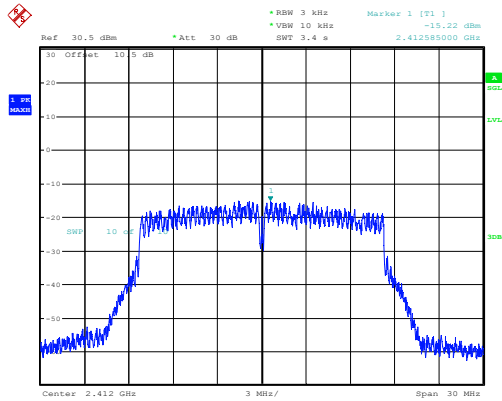
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:36:31

b_2462MHz_Chain 1 -7.63dBm/3kHz



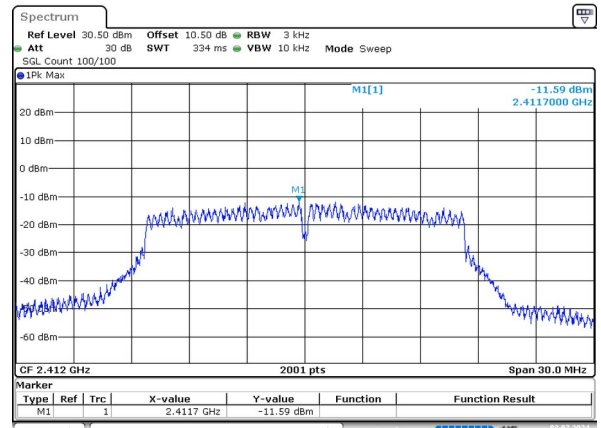
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 3.JUL.2024 09:23:02

g_2412MHz_Chain 0 -15.22dBm/3kHz



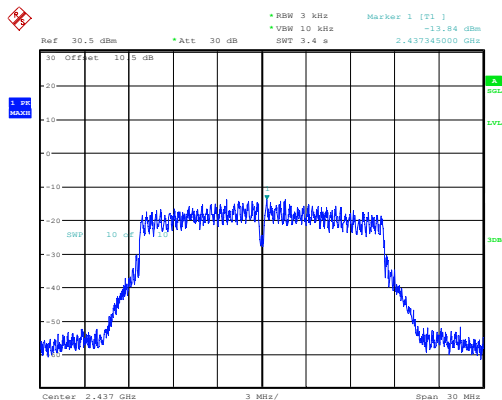
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:40:58

g_2412MHz_Chain 1 -11.59dBm/3kHz



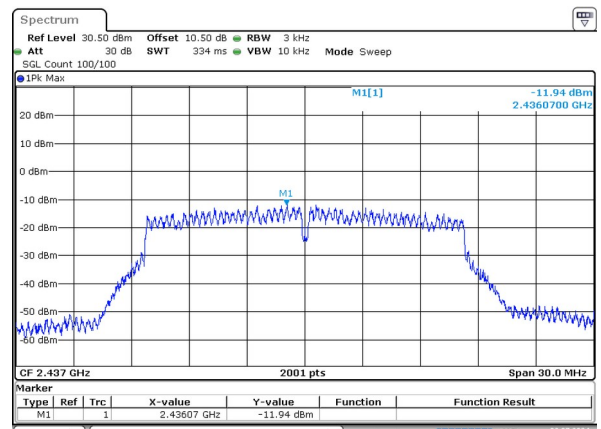
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Date: 3.JUL.2024 09:24:41

g_2437MHz_Chain 0 -13.84dBm/3kHz



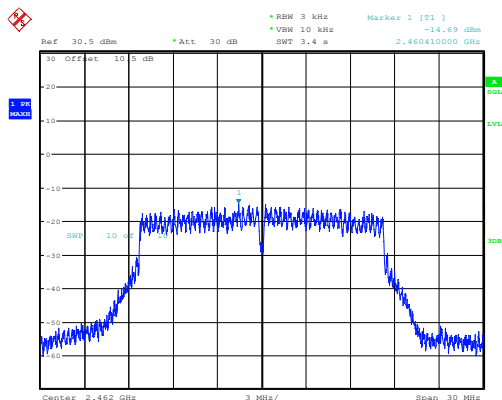
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Date: 5.AUG.2024 13:43:45

g_2437MHz_Chain 1 -11.94dBm/3kHz



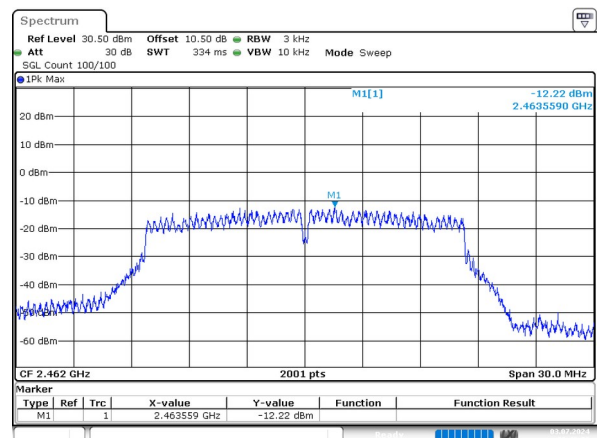
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Date: 3.JUL.2024 09:40:58

g_2462MHz_Chain 0 -14.69dBm/3kHz



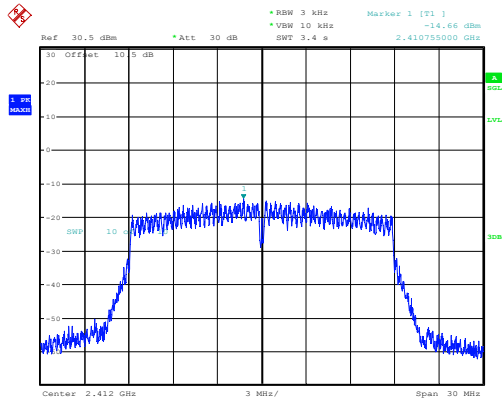
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Date: 5.AUG.2024 13:48:28

g_2462MHz_Chain 1 -12.22dBm/3kHz



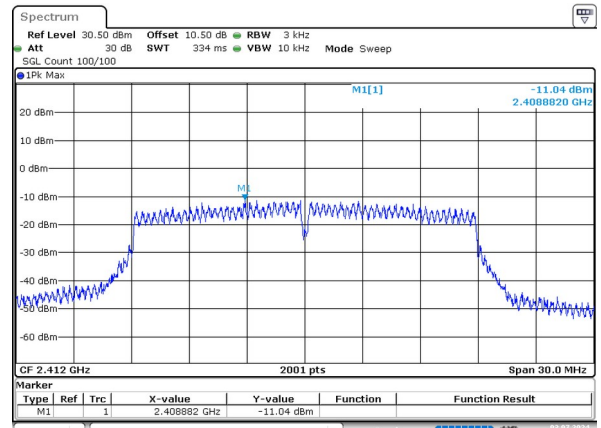
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 3.JUL.2024 09:42:32

n20_2412MHz_Chain 0 -14.66dBm/3kHz



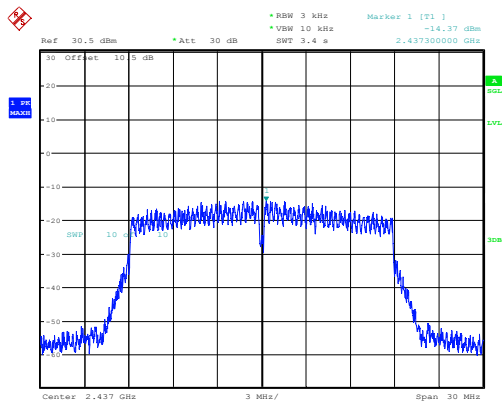
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:53:51

n20_2412MHz_Chain 1 -11.04dBm/3kHz



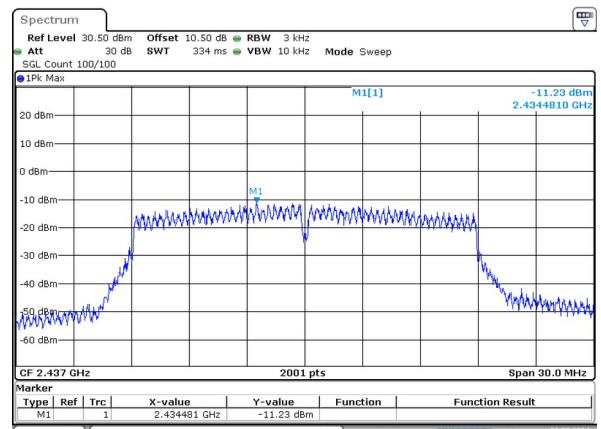
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Date: 3.JUL.2024 09:44:15

n20_2437MHz_Chain 0 -14.37dBm/3kHz



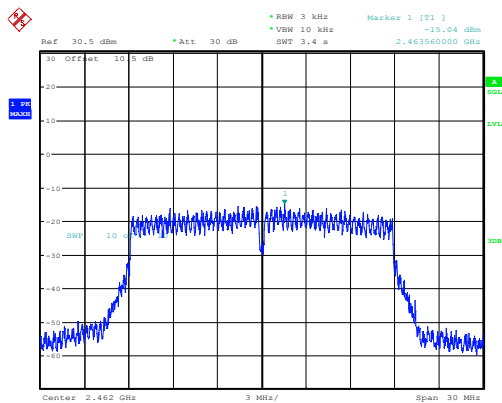
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Date: 5.AUG.2024 13:56:19

n20_2437MHz_Chain 1 -11.23dBm/3kHz



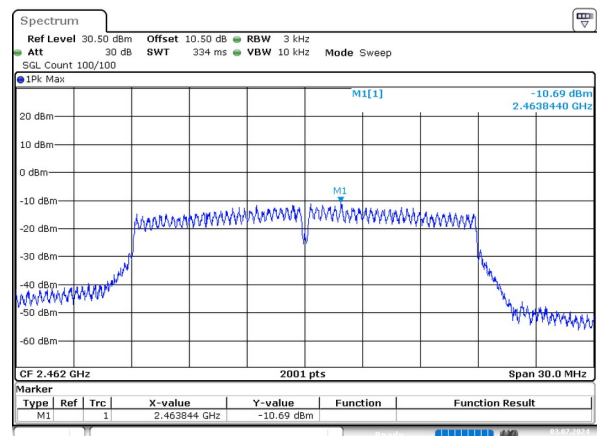
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 3.JUL.2024 09:45:42

n20_2462MHz_Chain 0 -15.04dBm/3kHz



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 14:00:17

n20_2462MHz_Chain 1 -10.69dBm/3kHz



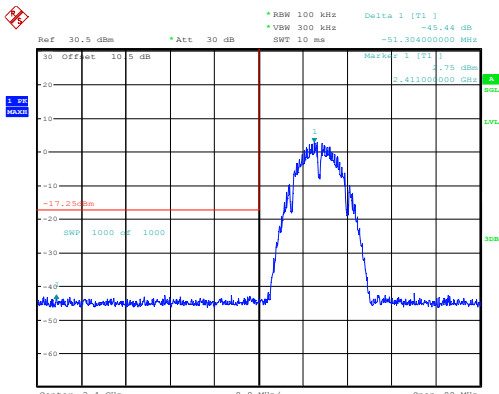
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 3.JUL.2024 09:47:14

100 kHz Bandwidth of Frequency Band Edge**2.4G**

Mode	Value (dB)	Limit (dB)	Result
b_2412MHz_Chain 0	45.44	20	Pass
b_2412MHz_Chain 1	47.97	20	Pass
b_2462MHz_Chain 0	44.21	20	Pass
b_2462MHz_Chain 1	54.39	20	Pass
g_2412MHz_Chain 0	30.60	20	Pass
g_2412MHz_Chain 1	28.61	20	Pass
g_2462MHz_Chain 0	39.04	20	Pass
g_2462MHz_Chain 1	42.99	20	Pass
n20_2412MHz_Chain 0	30.03	20	Pass
n20_2412MHz_Chain 1	26.73	20	Pass
n20_2462MHz_Chain 0	38.39	20	Pass
n20_2462MHz_Chain 1	41.95	20	Pass

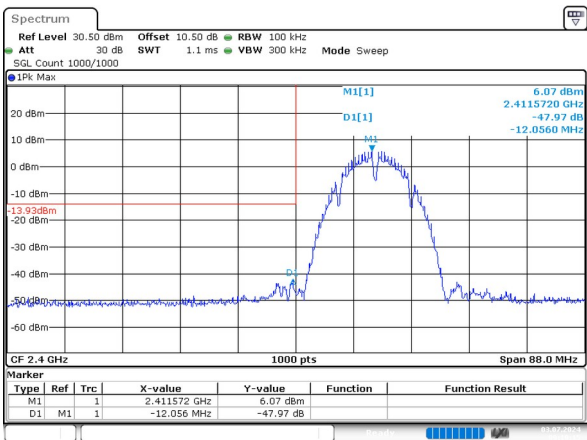
2.4G

b_2412MHz_Chain 0 45.44dB



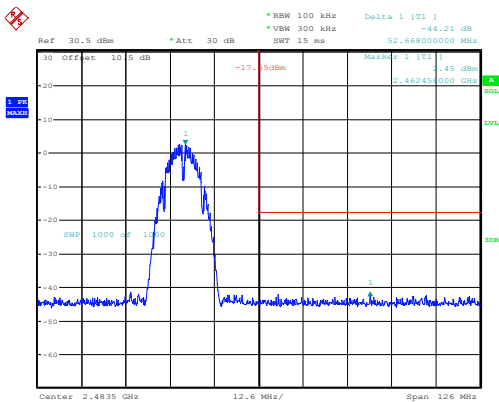
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:26:33

b_2412MHz_Chain 1 47.97dB



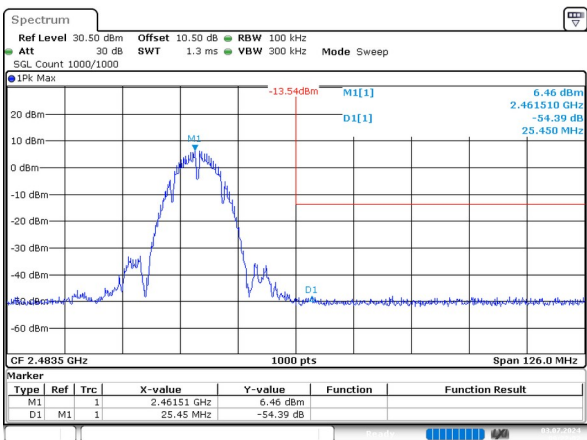
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 3.JUL.2024 09:19:15

b_2462MHz_Chain 0 44.21dB



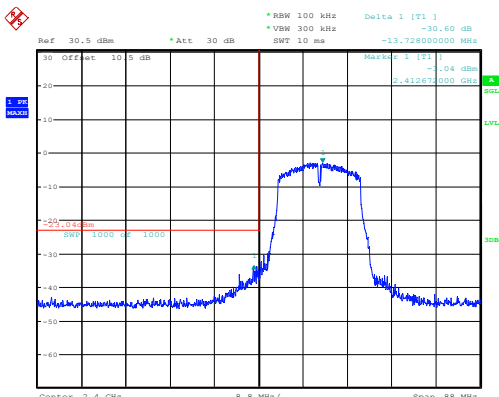
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:34:17

b_2462MHz_Chain 1 54.39dB



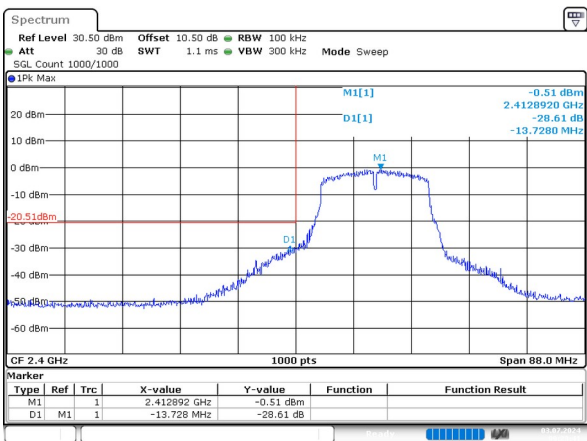
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 3.JUL.2024 09:22:02

g_2412MHz_Chain 0 30.60dB



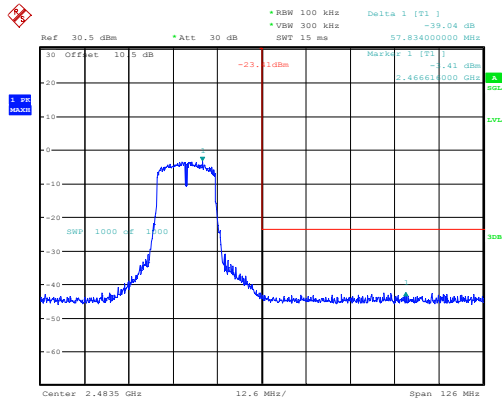
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:38:52

g_2412MHz_Chain 1 28.61dB



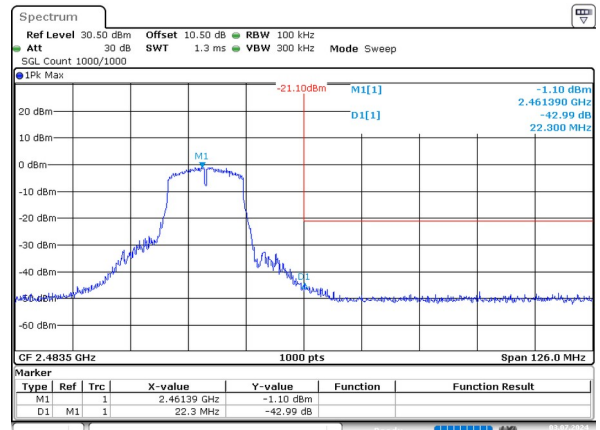
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 3.JUL.2024 09:23:41

g_2462MHz_Chain 0 39.04dB



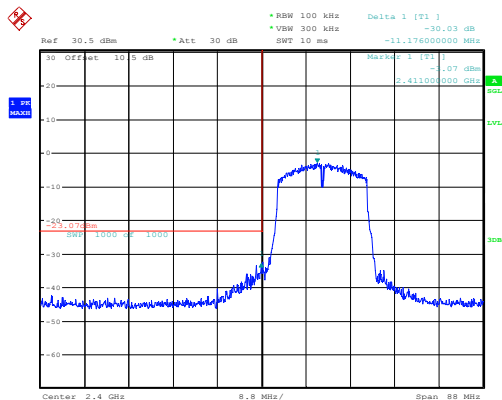
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:46:15

g_2462MHz_Chain 1 42.99dB



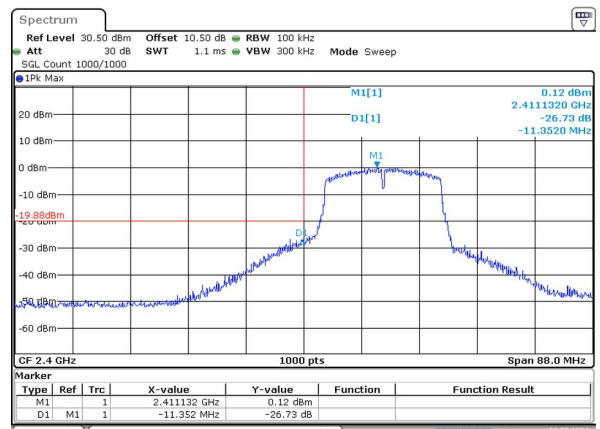
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 3.JUL.2024 09:41:32

n20_2412MHz_Chain 0 30.03dB



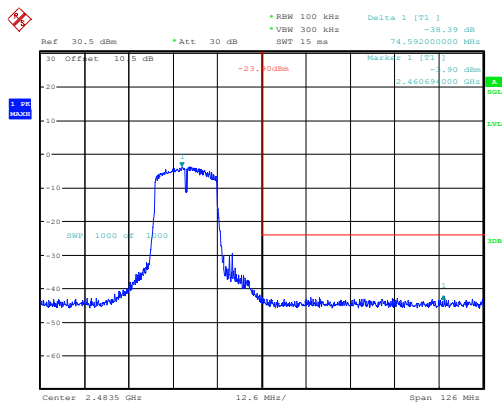
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:51:45

n20_2412MHz_Chain 1 26.73dB



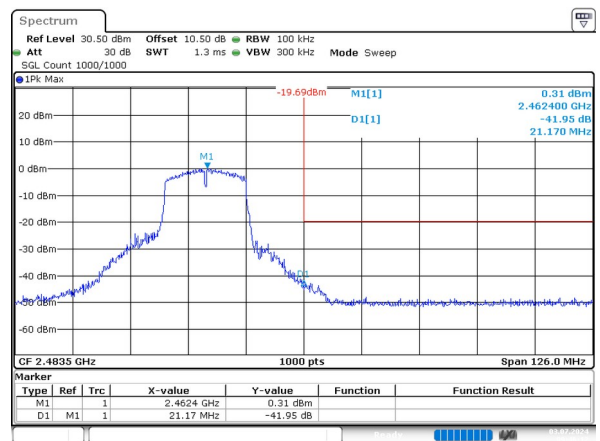
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 3.JUL.2024 09:43:15

n20_2462MHz_Chain 0 38.39dB



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:58:04

n20_2462MHz_Chain 1 41.95dB



ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 3.JUL.2024 09:46:12

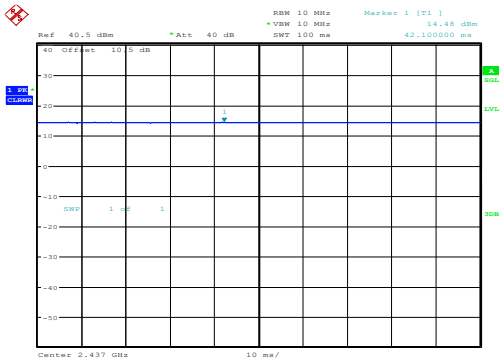
Duty Cycle**2.4G**

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/Ton (Hz)	VBW Setting (kHz)
b_2437MHz_Chain 0	100	100	100	0	NA	0.010
g_2437MHz_Chain 0	100	100	100	0	NA	0.010
n20_2437MHz_Chain 0	100	100	100	0	NA	0.010

$$\text{Duty Cycle} = \text{Ton}/(\text{Ton}+\text{Toff})*100\%$$

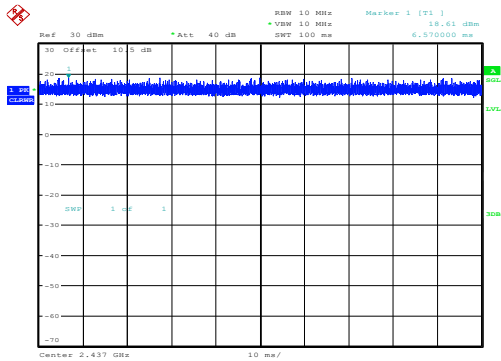
2.4G

b_2437MHz_Chain 0
100ms,100ms



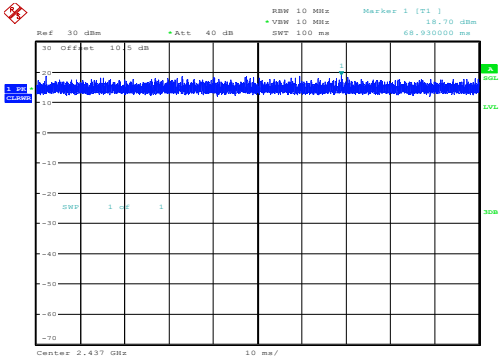
ProjectNo.:2403U82760E-RF Tester:Arthur Su
Date: 5.AUG.2024 13:21:47

g_2437MHz_Chain 0
100ms,100ms



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n20_2437MHz_Chain 0
100ms,100ms



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Date: 5.AUG.2024 13:23:39