

FCC Part 15.247

Test Information:

Serial No.:	2GPP-3	Test Date:	2024/02/03~2024/02/29
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.8-25.7	Relative Humidity: (%)	57-62	ATM Pressure: (kPa)	101.1-101.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211003	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

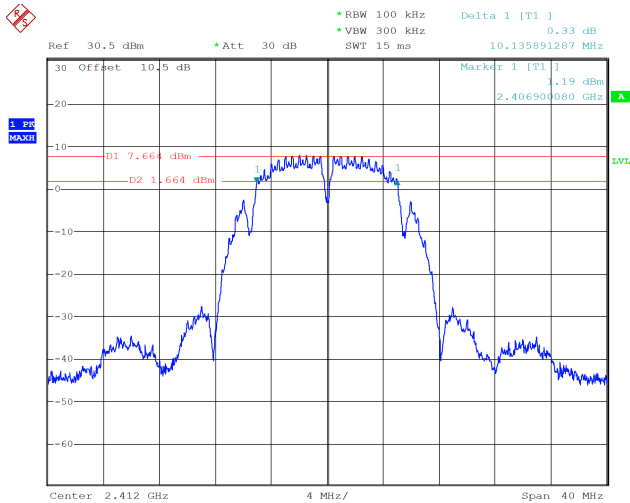
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

6dB Emission Bandwidth

Mode	Value (MHz)	Limit (MHz)	Result
b_2412MHz_Chain 0	10.136	0.5	Pass
b_2412MHz_Chain 1	10.136	0.5	Pass
b_2437MHz_Chain 0	10.136	0.5	Pass
b_2437MHz_Chain 1	10.136	0.5	Pass
b_2462MHz_Chain 0	10.104	0.5	Pass
b_2462MHz_Chain 1	10.136	0.5	Pass
g_2412MHz_Chain 0	16.435	0.5	Pass
g_2412MHz_Chain 1	16.435	0.5	Pass
g_2437MHz_Chain 0	16.435	0.5	Pass
g_2437MHz_Chain 1	16.435	0.5	Pass
g_2462MHz_Chain 0	16.467	0.5	Pass
g_2462MHz_Chain 1	16.435	0.5	Pass
n20_2412MHz_Chain 0	17.650	0.5	Pass
n20_2412MHz_Chain 1	17.650	0.5	Pass
n20_2437MHz_Chain 0	17.650	0.5	Pass
n20_2437MHz_Chain 1	17.650	0.5	Pass
n20_2462MHz_Chain 0	17.650	0.5	Pass
n20_2462MHz_Chain 1	17.618	0.5	Pass
n40_2422MHz_Chain 0	35.939	0.5	Pass
n40_2422MHz_Chain 1	36.323	0.5	Pass
n40_2437MHz_Chain 0	36.195	0.5	Pass
n40_2437MHz_Chain 1	36.259	0.5	Pass
n40_2452MHz_Chain 0	36.451	0.5	Pass
n40_2452MHz_Chain 1	36.515	0.5	Pass

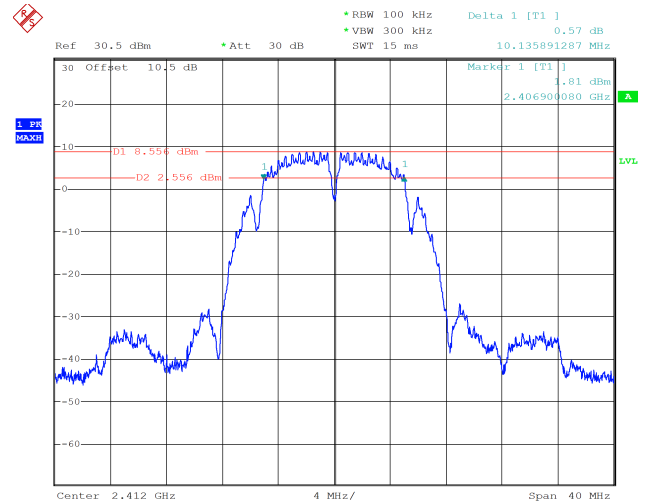
2.4G

b_2412MHz_Chain 0 10.136 MHz



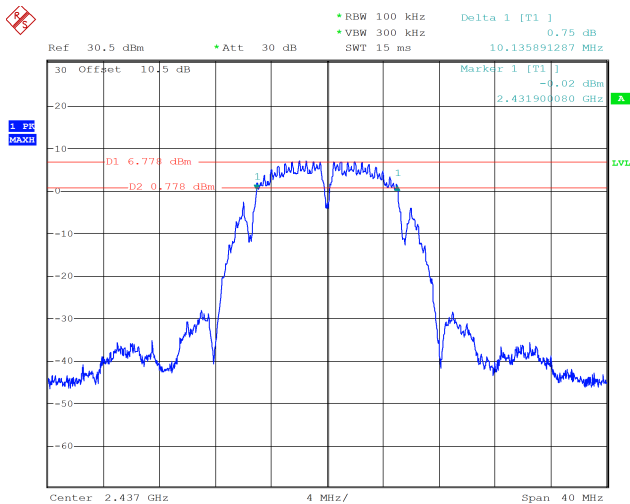
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:05:19

b_2412MHz_Chain 1 10.136 MHz



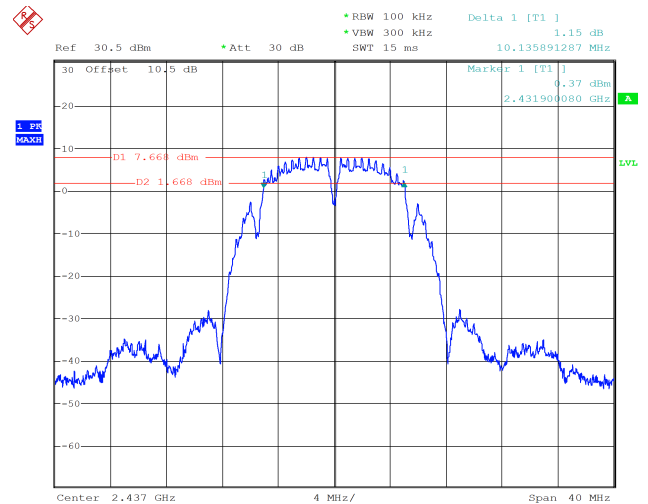
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b_2437MHz_Chain 0 10.136 MHz



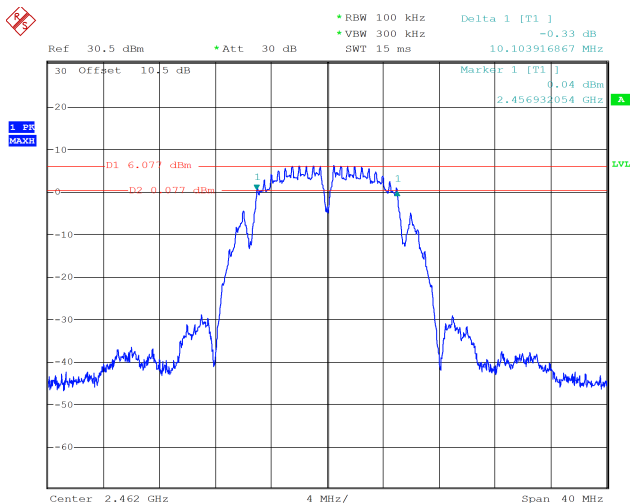
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b_2437MHz_Chain 1 10.136 MHz



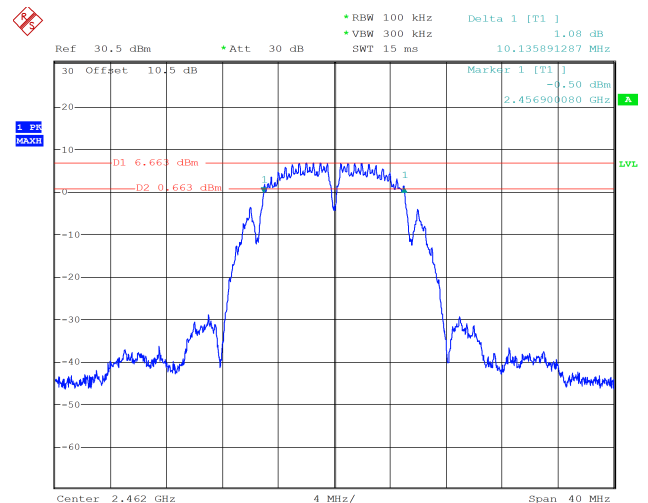
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:09:12

b_2462MHz_Chain 0 10.104 MHz



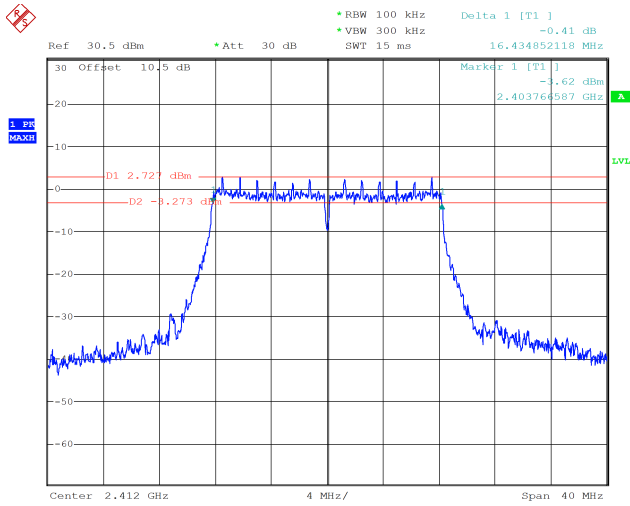
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b_2462MHz_Chain 1 10.136 MHz



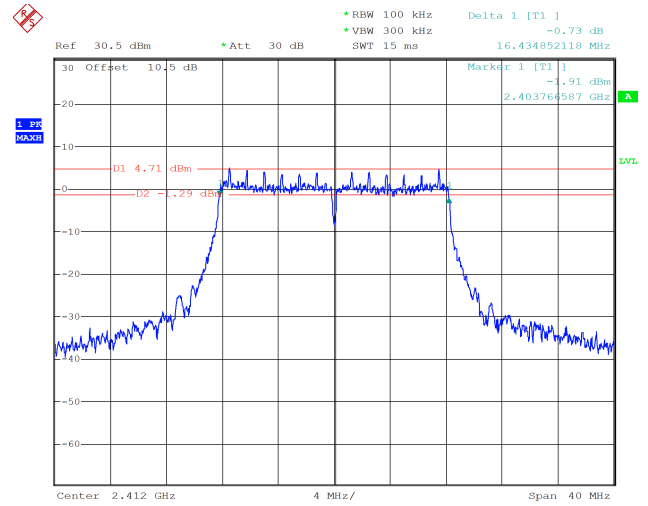
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:11:48

g_2412MHz_Chain 0 16.435 MHz



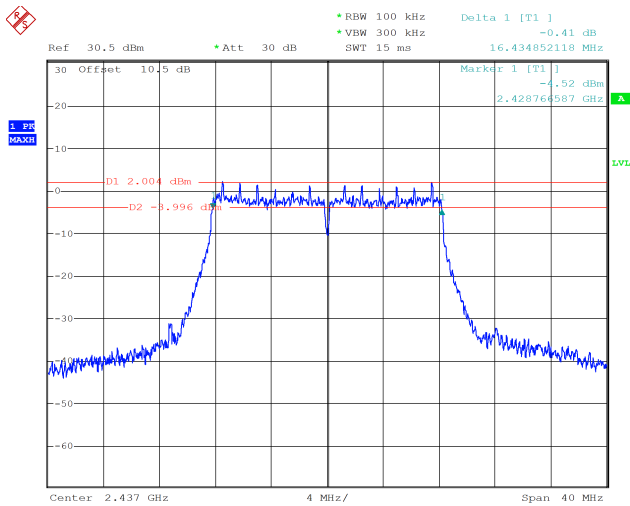
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g_2412MHz_Chain 1 16.435 MHz



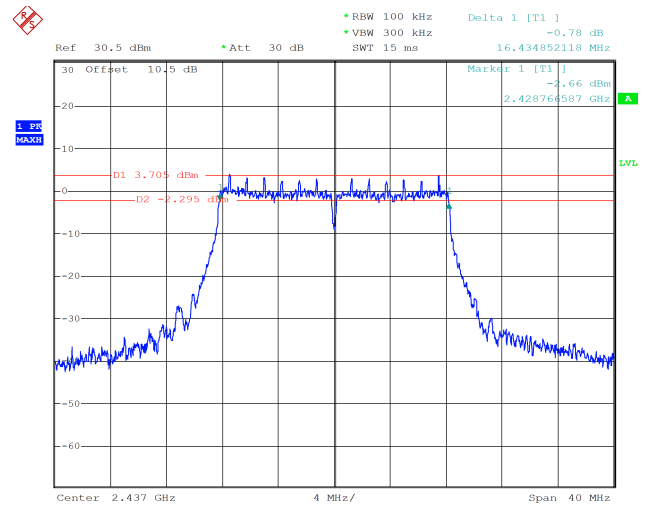
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g_2437MHz_Chain 0 16.435 MHz



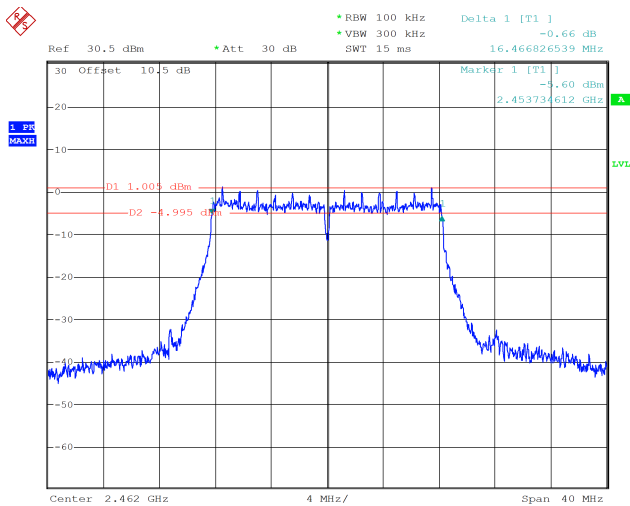
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g_2437MHz_Chain 1 16.435 MHz



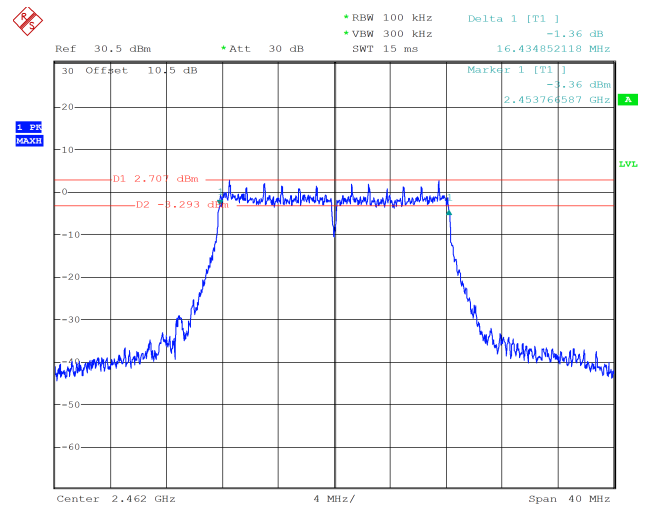
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
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g_2462MHz_Chain 0 16.467 MHz



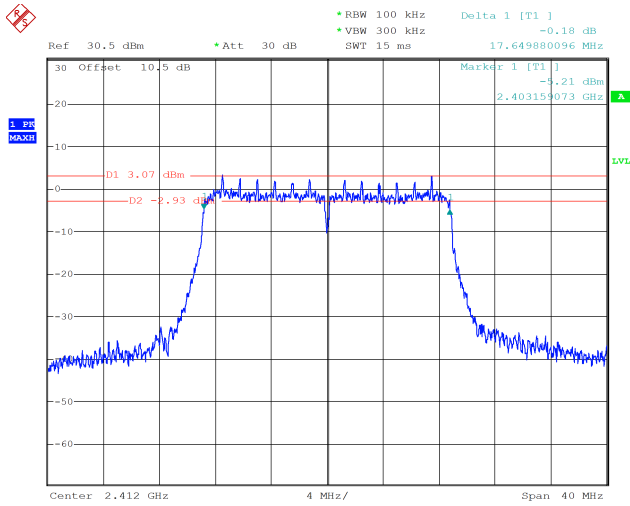
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Date: 3.FEB.2024 16:16:58

g_2462MHz_Chain 1 16.435 MHz



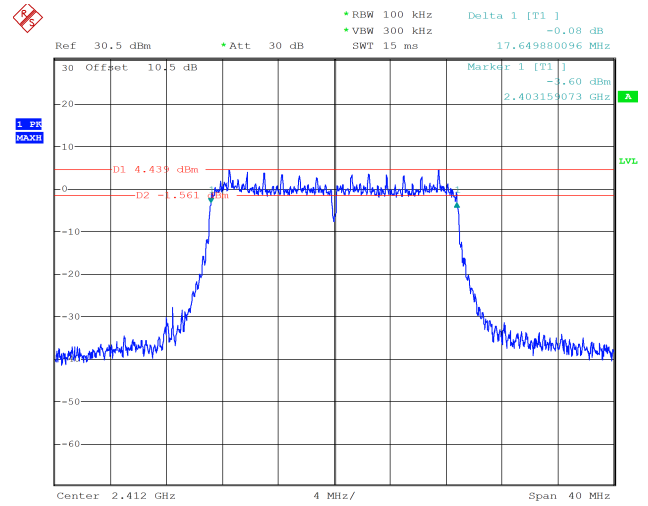
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Date: 3.FEB.2024 17:18:00

n20_2412MHz_Chain 0 17.650 MHz



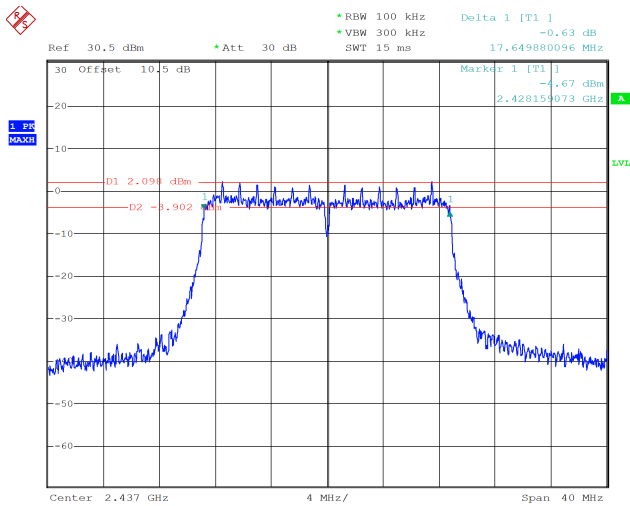
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n20_2412MHz_Chain 1 17.650 MHz



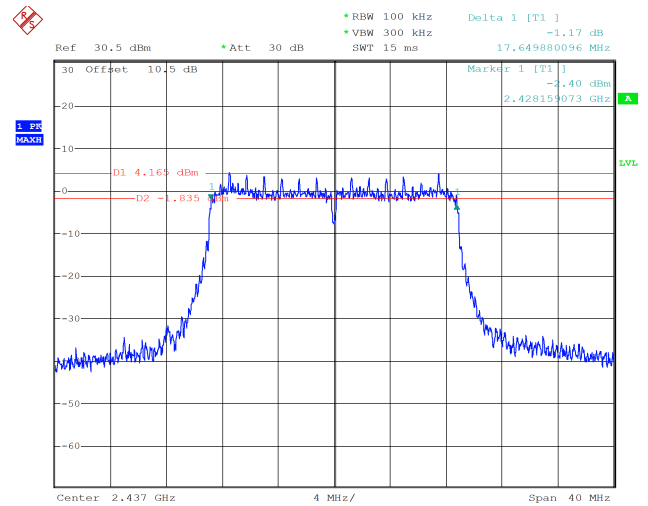
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:29:19

n20_2437MHz_Chain 0 17.650 MHz



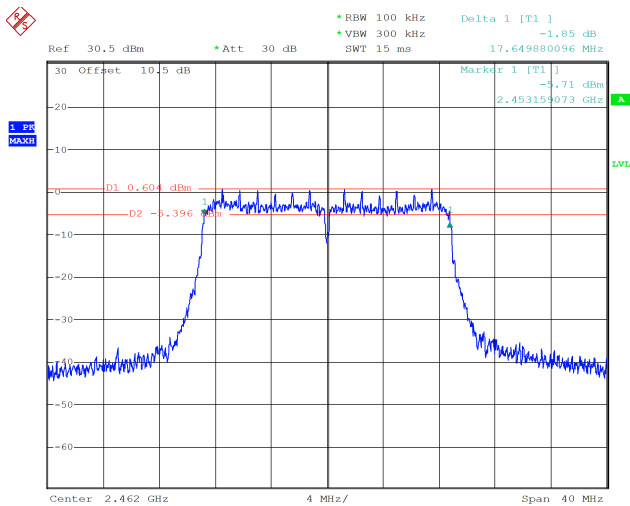
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Date: 3.FEB.2024 16:21:51

n20_2437MHz_Chain 1 17.650 MHz



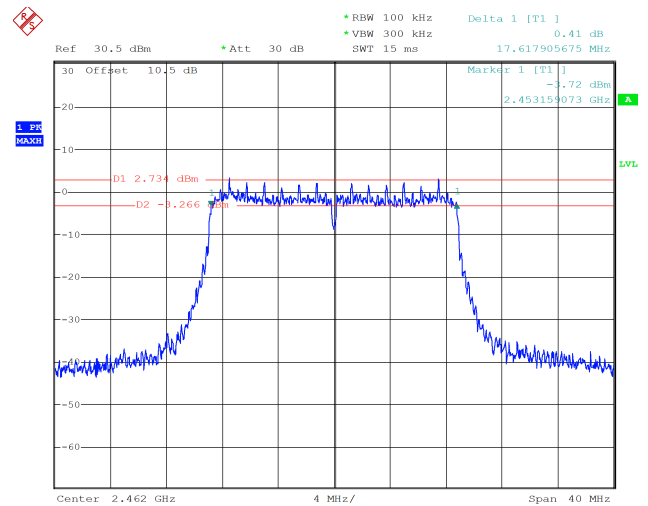
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:30:39

n20_2462MHz_Chain 0 17.650 MHz



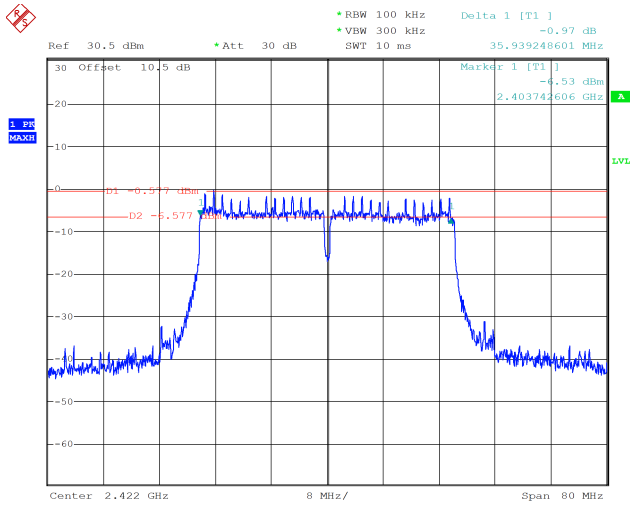
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:24:59

n20_2462MHz_Chain 1 17.618 MHz



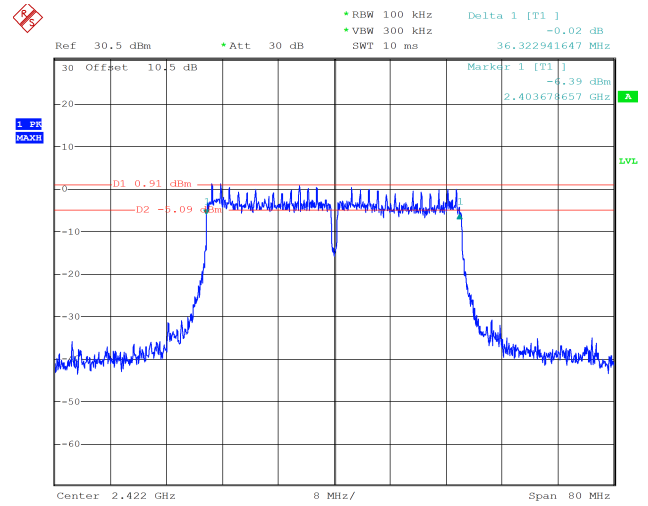
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:33:18

n40_2422MHz_Chain 0 35.939 MHz



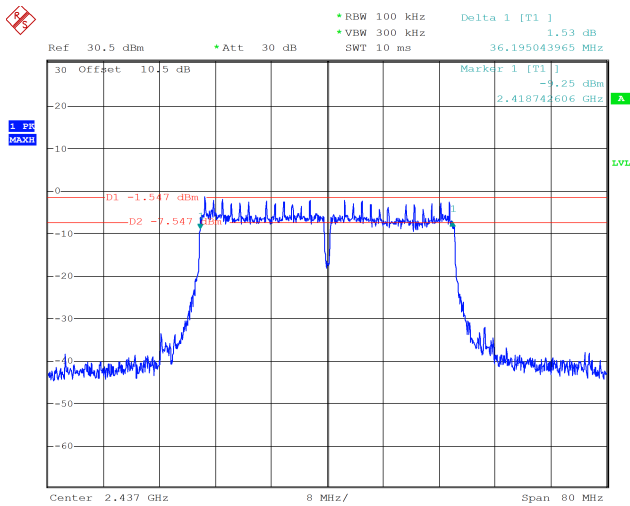
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:27:52

n40_2422MHz_Chain 1 36.323 MHz



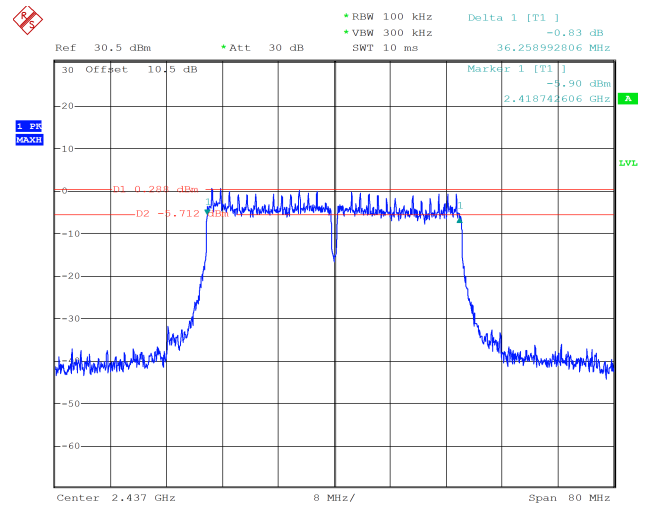
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Date: 3.FEB.2024 17:36:36

n40_2437MHz_Chain 0 36.195 MHz



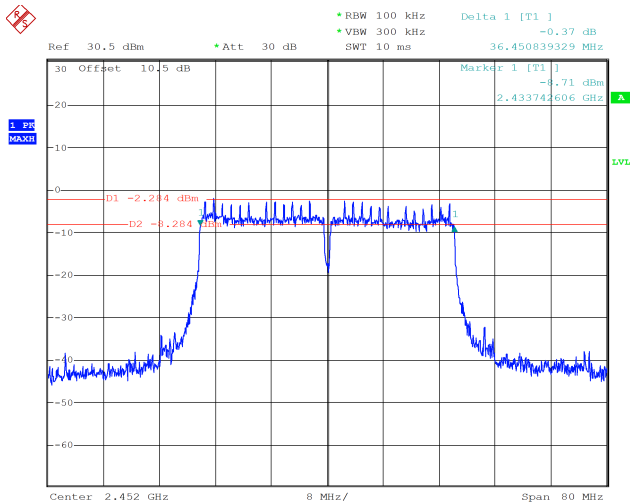
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:29:32

n40_2437MHz_Chain 1 36.259 MHz



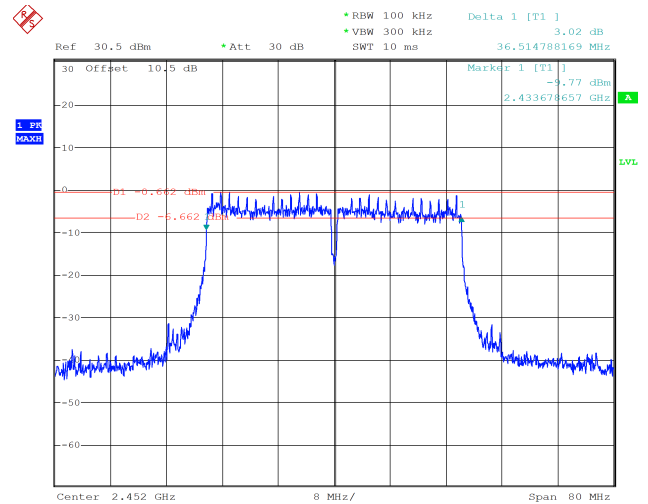
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:37:55

n40_2452MHz_Chain 0 36.451 MHz



Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:32:23

n40_2452MHz_Chain 1 36.515 MHz



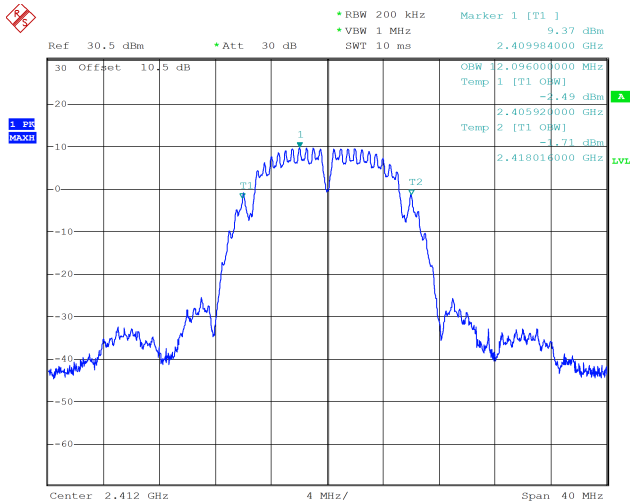
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:40:21

99% Occupied Bandwidth

Mode	99% OBW (MHz)
b_2412MHz_Chain 0	12.096
b_2437MHz_Chain 0	12.096
b_2462MHz_Chain 0	12.096
g_2412MHz_Chain 0	16.768
g_2437MHz_Chain 0	16.768
g_2462MHz_Chain 0	16.800
n20_2412MHz_Chain 0	17.632
n20_2437MHz_Chain 0	17.632
n20_2462MHz_Chain 0	17.664
n40_2422MHz_Chain 0	36.608
n40_2437MHz_Chain 0	36.608
n40_2452MHz_Chain 0	36.608

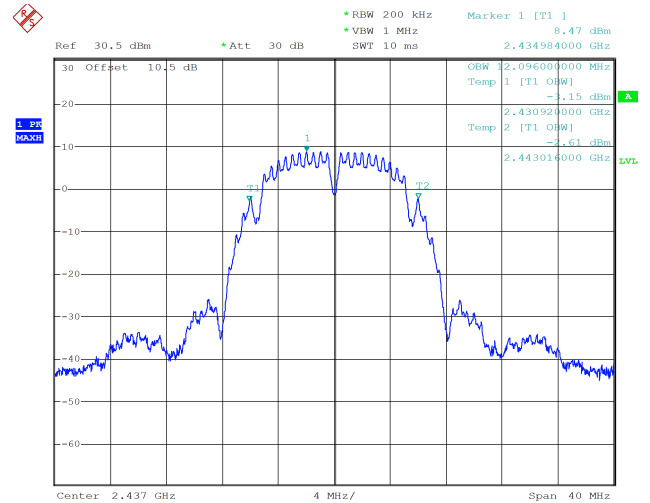
2.4G

b_2412MHz_Chain 0 12.096 MHz



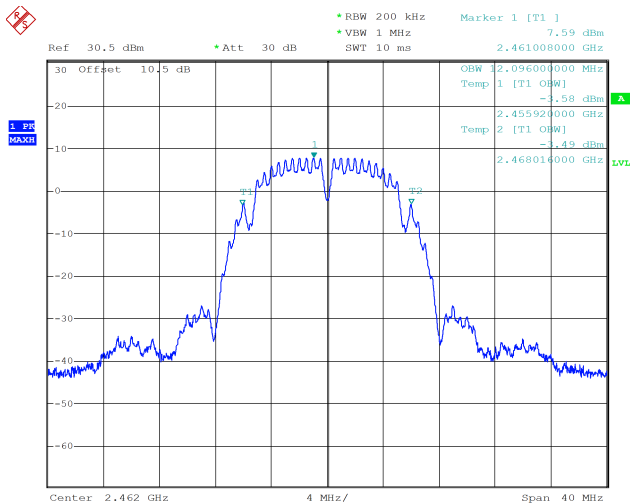
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:05:33

b_2437MHz_Chain 0 12.096 MHz



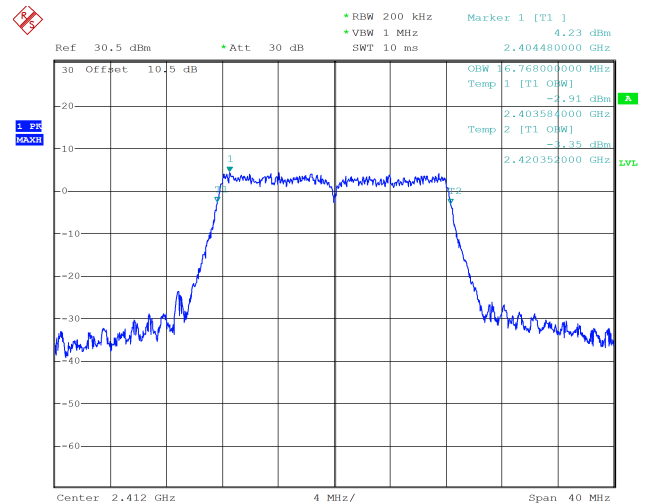
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:07:32

b_2462MHz_Chain 0 12.096 MHz



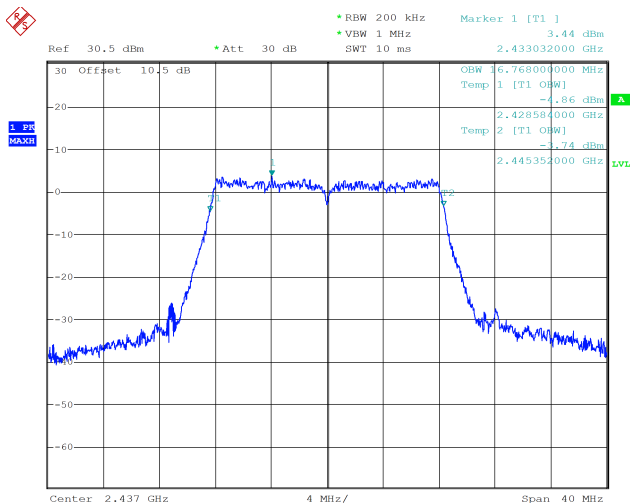
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:10:25

g_2412MHz_Chain 0 16.768 MHz



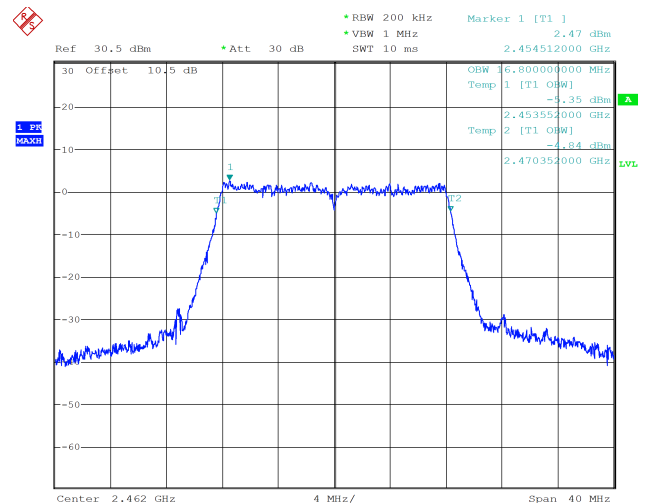
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Date: 3.FEB.2024 16:13:21

g_2437MHz_Chain 0 16.768 MHz



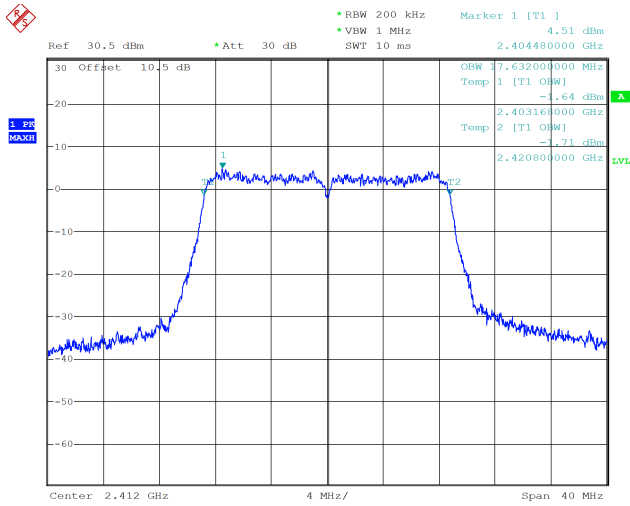
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g_2462MHz_Chain 0 16.800 MHz



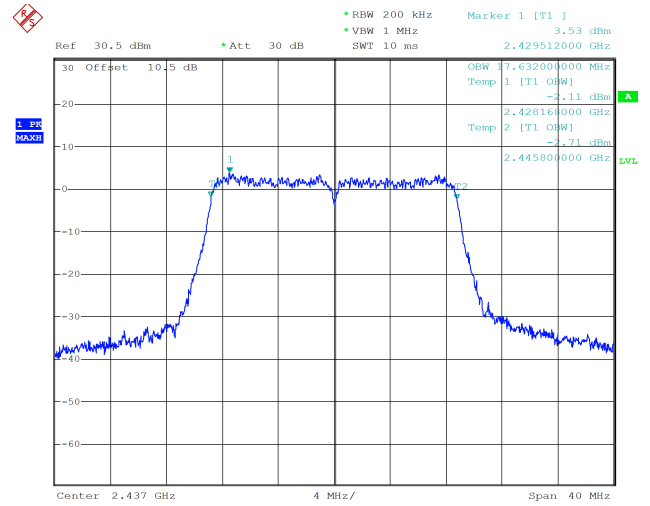
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:17:20

n20_2412MHz_Chain 0 17.632 MHz



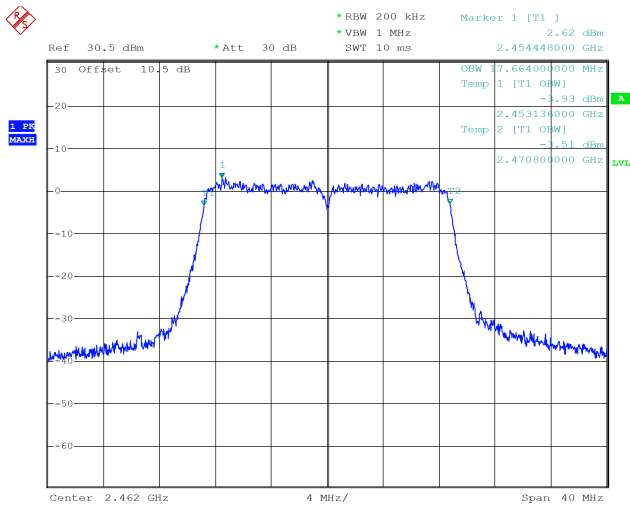
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Date: 3.FEB.2024 16:20:39

n20_2437MHz_Chain 0 17.632 MHz



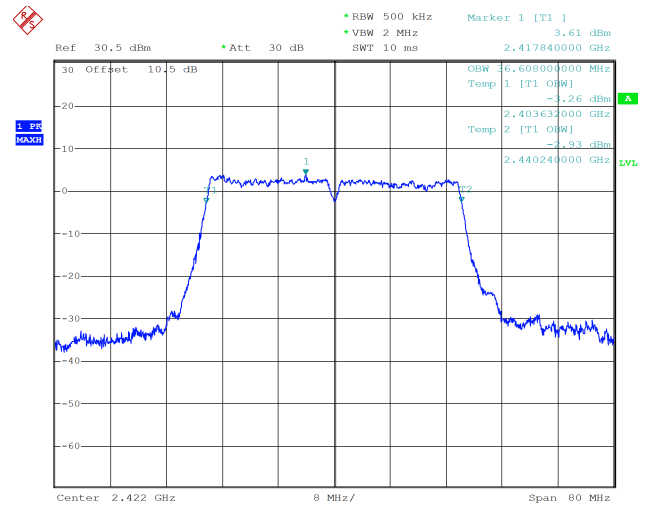
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Date: 3.FEB.2024 16:22:18

n20_2462MHz_Chain 0 17.664 MHz



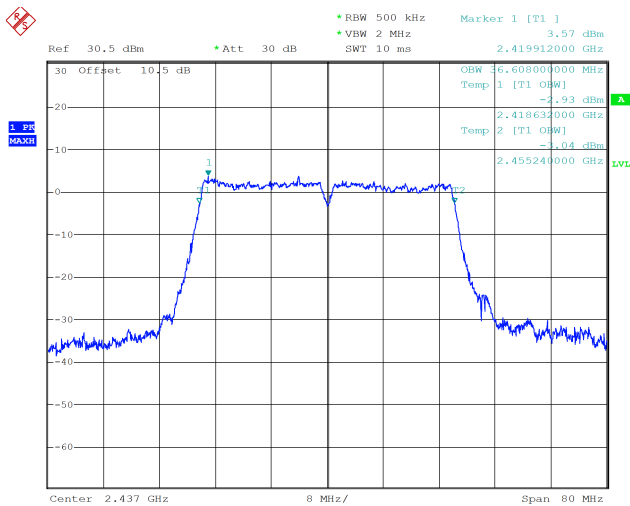
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Date: 3.FEB.2024 16:25:25

n40_2422MHz_Chain 0 36.608 MHz



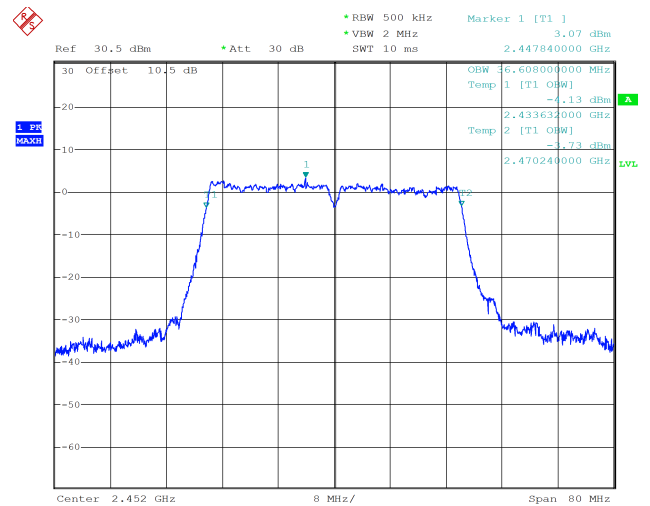
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Date: 3.FEB.2024 16:28:17

n40_2437MHz_Chain 0 36.608 MHz



Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:29:54

n40_2452MHz_Chain 0 36.608 MHz



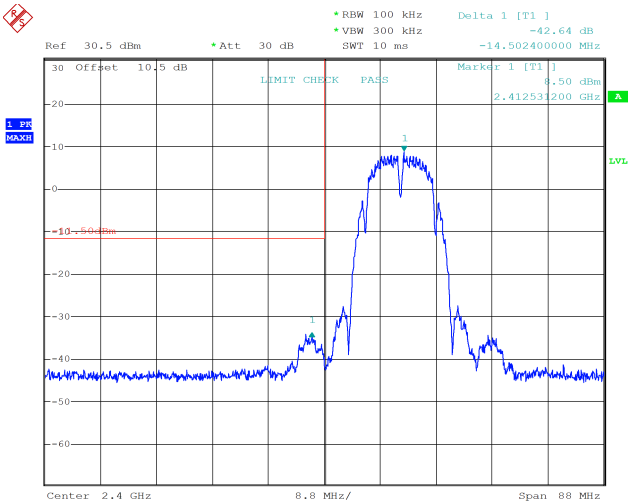
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:32:46

100 kHz Bandwidth of Frequency Band Edge

Mode	Value (dB)	Limit (dB)	Result
b_2412MHz_Chain 0	42.64	20.00	Pass
b_2412MHz_Chain 1	41.64	20.00	Pass
b_2462MHz_Chain 0	47.83	20.00	Pass
b_2462MHz_Chain 1	48.87	20.00	Pass
g_2412MHz_Chain 0	35.79	20.00	Pass
g_2412MHz_Chain 1	34.70	20.00	Pass
g_2462MHz_Chain 0	42.51	20.00	Pass
g_2462MHz_Chain 1	44.17	20.00	Pass
n20_2412MHz_Chain 0	37.72	20.00	Pass
n20_2412MHz_Chain 1	36.14	20.00	Pass
n20_2462MHz_Chain 0	41.50	20.00	Pass
n20_2462MHz_Chain 1	43.95	20.00	Pass
n40_2422MHz_Chain 0	31.42	20.00	Pass
n40_2422MHz_Chain 1	30.80	20.00	Pass
n40_2452MHz_Chain 0	36.44	20.00	Pass
n40_2452MHz_Chain 1	36.76	20.00	Pass

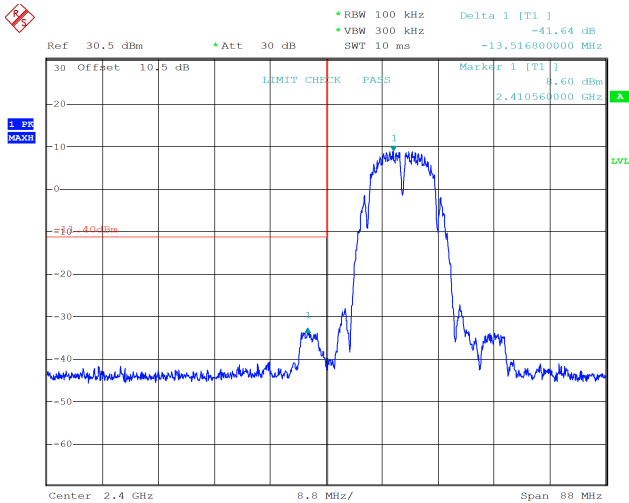
2.4G

b_2412MHz_Chain 0 42.64 dB



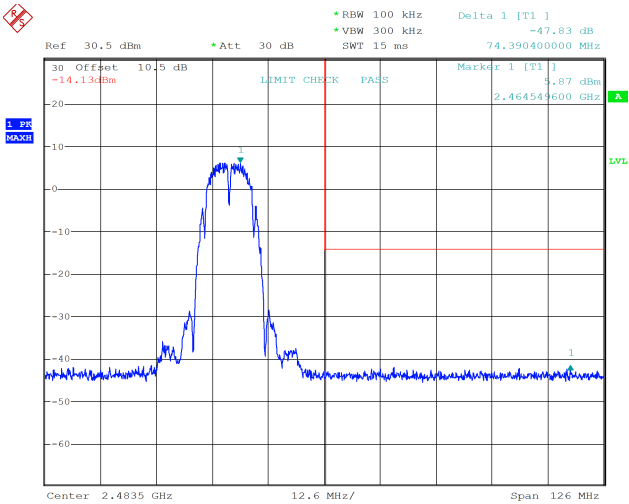
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:04:54

b_2412MHz_Chain 1 41.64 dB



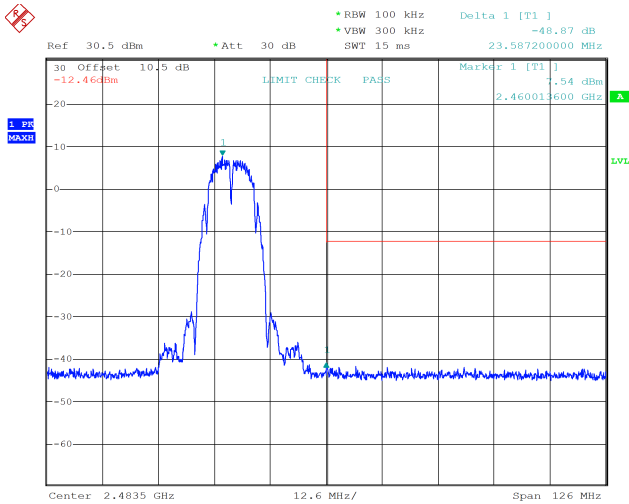
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Date: 3.FEB.2024 17:07:47

b_2462MHz_Chain 0 47.83 dB



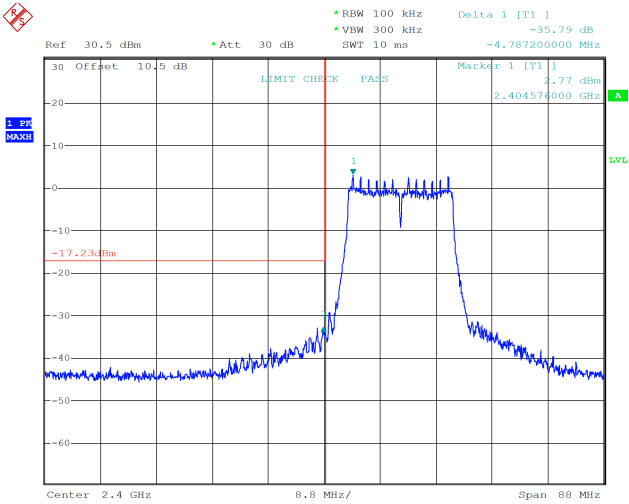
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Date: 3.FEB.2024 16:09:38

b_2462MHz_Chain 1 48.87 dB



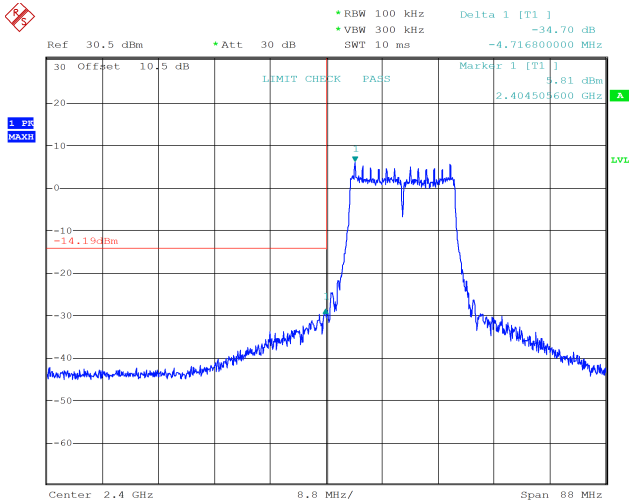
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:11:23

g_2412MHz_Chain 0 35.79 dB



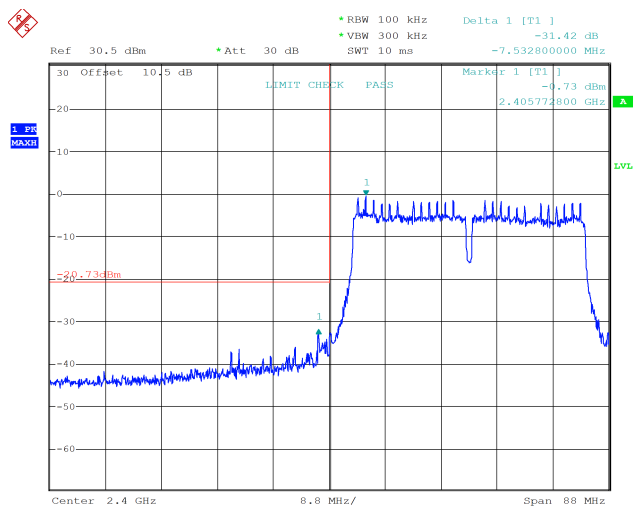
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:12:27

g_2412MHz_Chain 1 34.70 dB



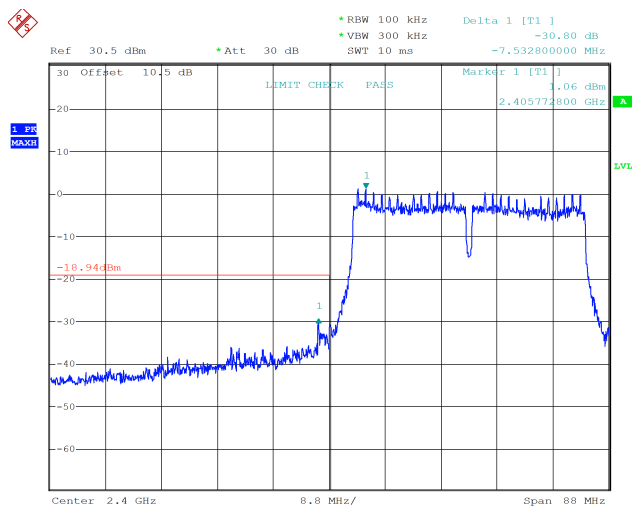
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 29.FEB.2024 10:52:07

n40_2422MHz_Chain 0 31.42 dB



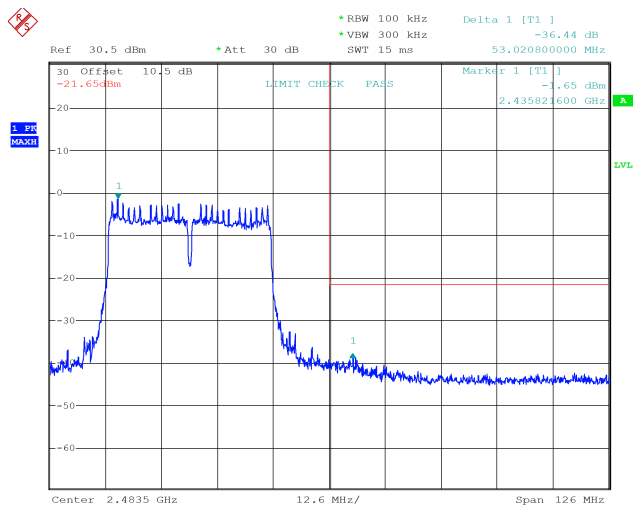
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Date: 3.FEB.2024 16:27:22

n40_2422MHz_Chain 1 30.80 dB



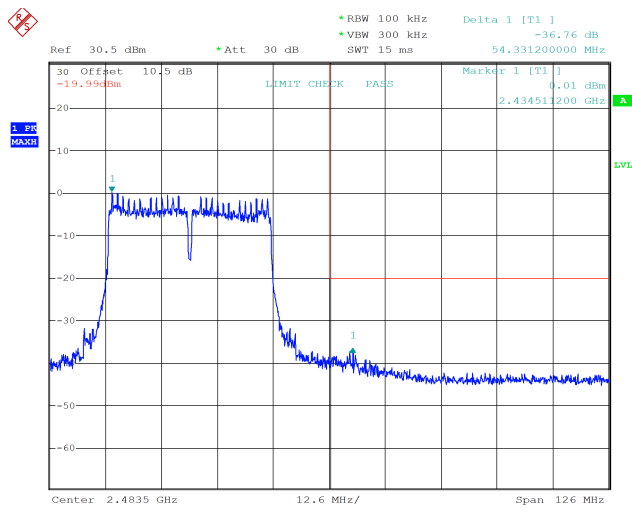
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:36:06

n40_2452MHz_Chain 0 36.44 dB



Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:31:58

n40_2452MHz_Chain 1 36.76 dB



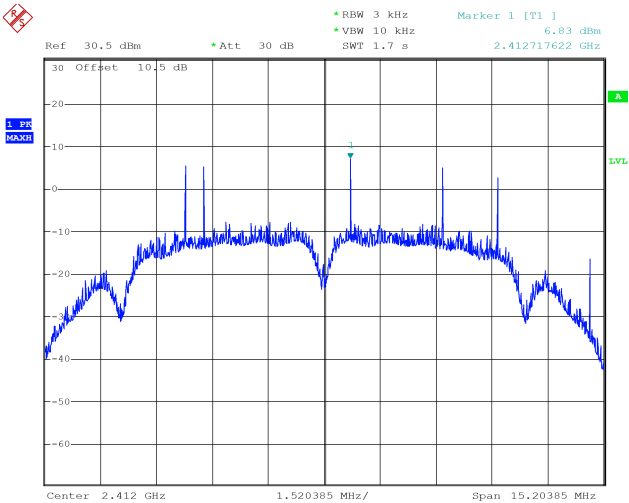
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:39:52

Power Spectral Density

Mode	Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
b_2412MHz_Chain 0	6.83	8.00	Pass
b_2412MHz_Chain 1	6.38	8.00	Pass
b_2437MHz_Chain 0	6.04	8.00	Pass
b_2437MHz_Chain 1	5.07	8.00	Pass
b_2462MHz_Chain 0	5.14	8.00	Pass
b_2462MHz_Chain 1	5.86	8.00	Pass
g_2412MHz_Chain 0	-13.45	8.00	Pass
g_2412MHz_Chain 1	-11.89	8.00	Pass
g_2437MHz_Chain 0	-14.71	8.00	Pass
g_2437MHz_Chain 1	-12.73	8.00	Pass
g_2462MHz_Chain 0	-14.59	8.00	Pass
g_2462MHz_Chain 1	-13.98	8.00	Pass
n20_2412MHz_Chain 0	-13.01	8.00	Pass
n20_2412MHz_Chain 1	-11.36	8.00	Pass
n20_2437MHz_Chain 0	-13.53	8.00	Pass
n20_2437MHz_Chain 1	-11.79	8.00	Pass
n20_2462MHz_Chain 0	-13.44	8.00	Pass
n20_2462MHz_Chain 1	-12.75	8.00	Pass
n40_2422MHz_Chain 0	-17.46	8.00	Pass
n40_2422MHz_Chain 1	-14.38	8.00	Pass
n40_2437MHz_Chain 0	-17.63	8.00	Pass
n40_2437MHz_Chain 1	-15.29	8.00	Pass
n40_2452MHz_Chain 0	-18.08	8.00	Pass
n40_2452MHz_Chain 1	-15.24	8.00	Pass

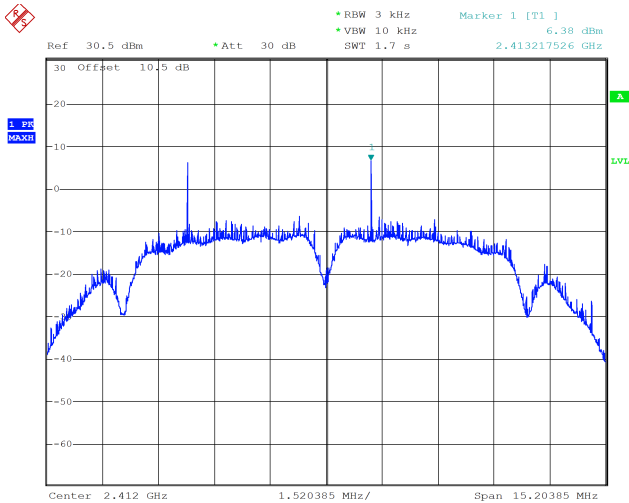
2.4G

b_2412MHz_Chain 0 6.83 dBm/3kHz



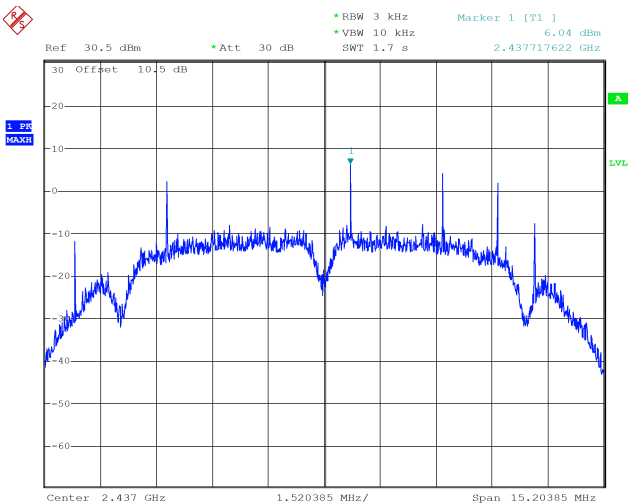
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:06:09

b_2412MHz_Chain 1 6.38 dBm/3kHz



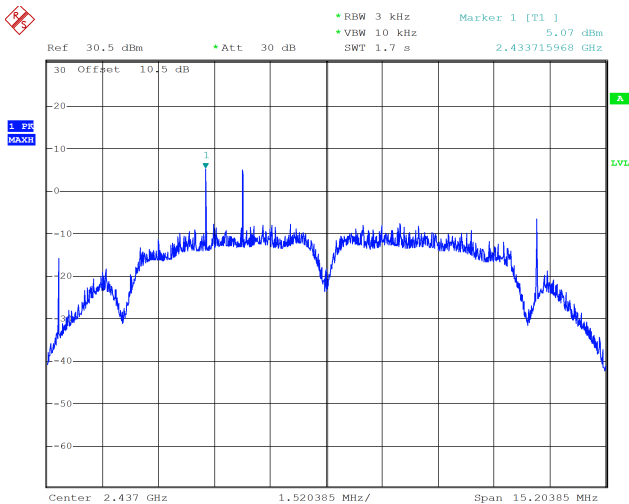
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 29.FEB.2024 11:36:10

b_2437MHz_Chain 0 6.04 dBm/3kHz



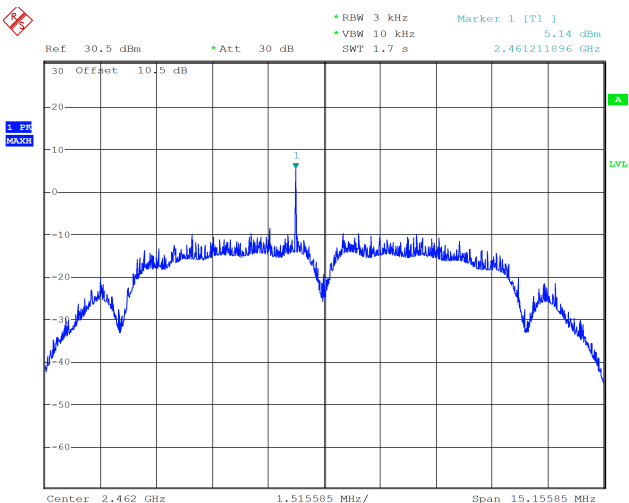
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:35:29

b_2437MHz_Chain 1 5.07 dBm/3kHz



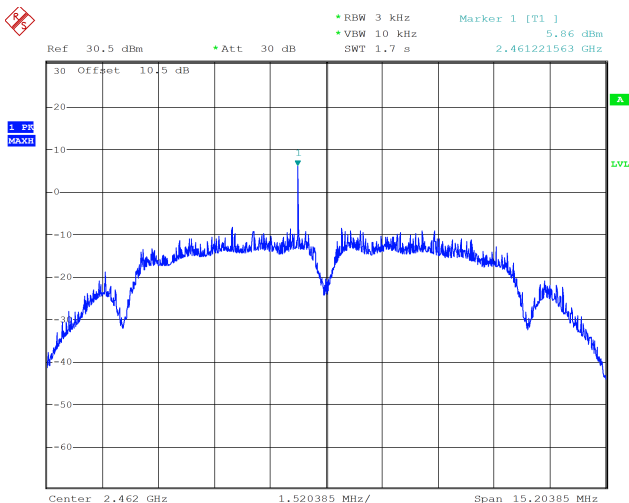
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:09:45

b_2462MHz_Chain 0 5.14 dBm/3kHz



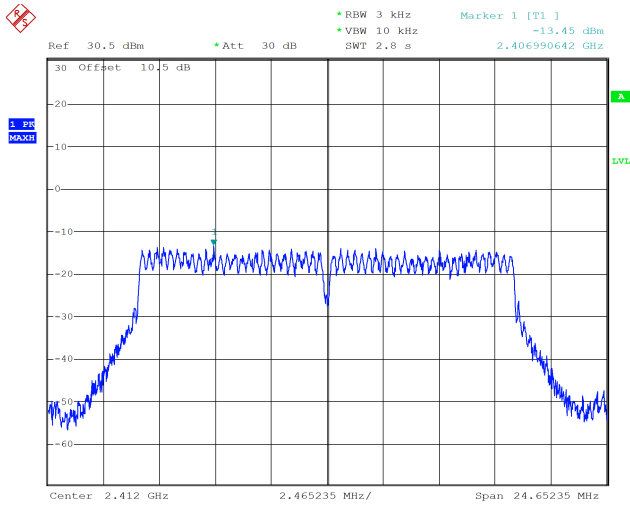
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:10:51

b_2462MHz_Chain 1 5.86 dBm/3kHz



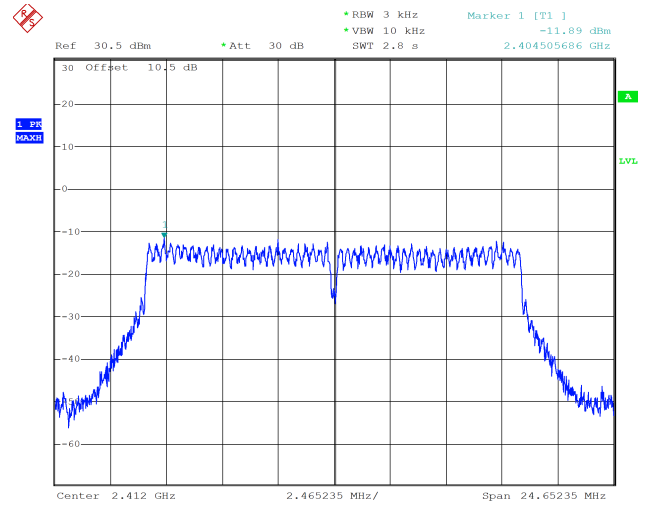
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:12:17

g_2412MHz_Chain 0 -13.45 dBm/3kHz



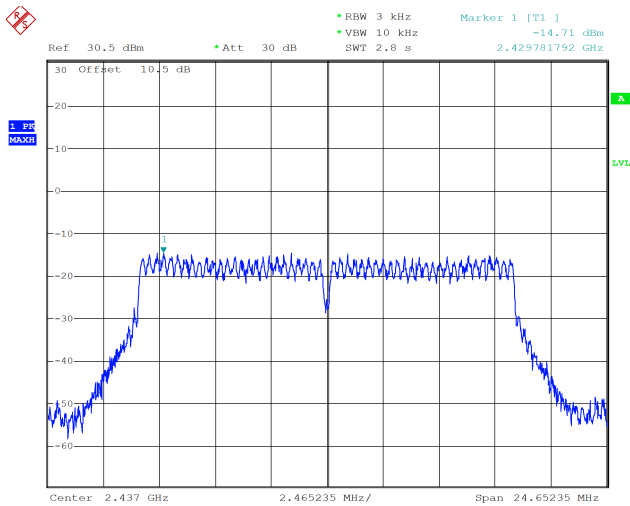
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:13:44

g_2412MHz_Chain 1 -11.89 dBm/3kHz



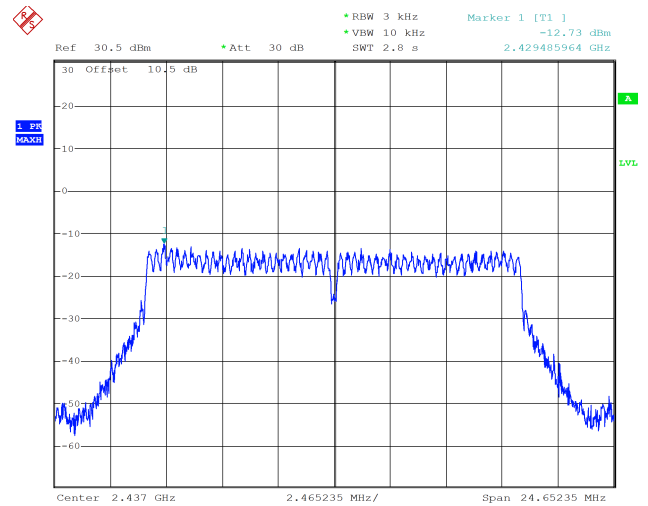
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:15:01

g_2437MHz_Chain 0 -14.71 dBm/3kHz



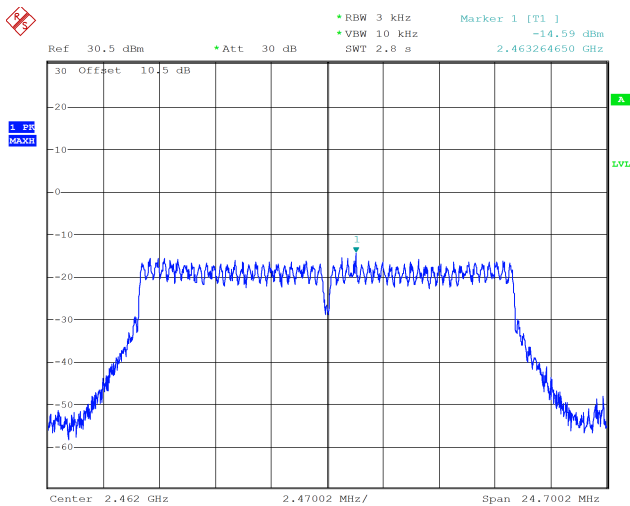
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:15:11

g_2437MHz_Chain 1 -12.73 dBm/3kHz



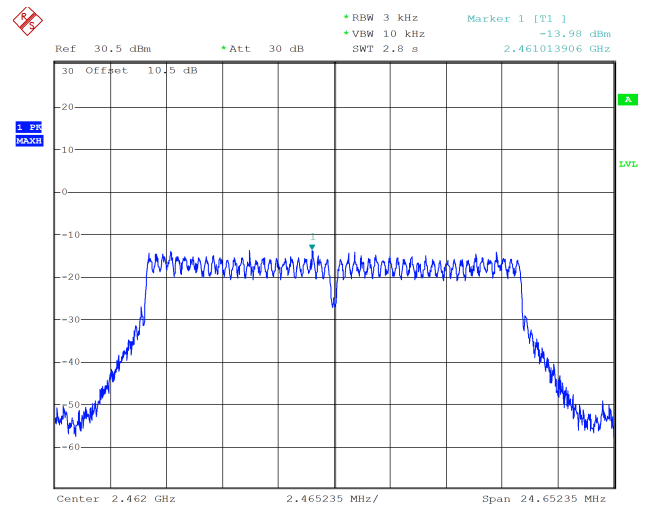
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:16:06

g_2462MHz_Chain 0 -14.59 dBm/3kHz



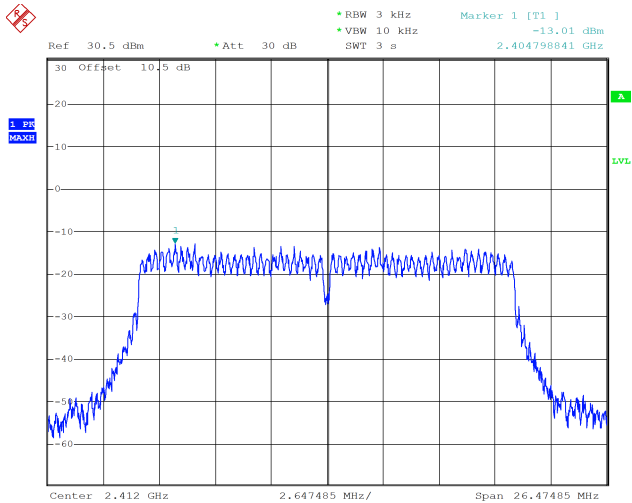
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:17:42

g_2462MHz_Chain 1 -13.98 dBm/3kHz



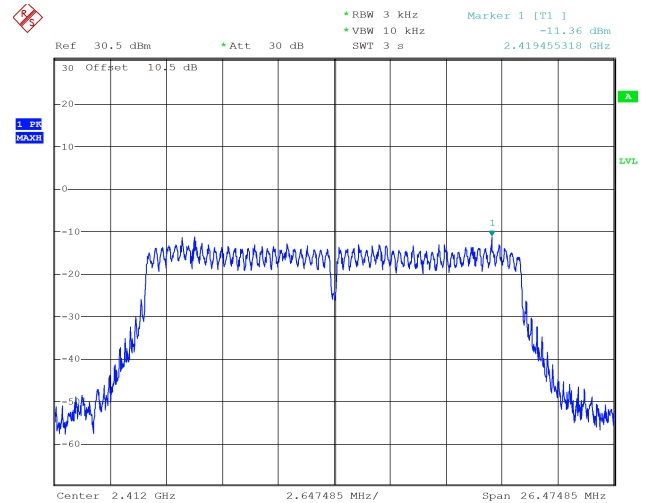
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:18:21

n20_2412MHz_Chain 0 -13.01 dBm/3kHz



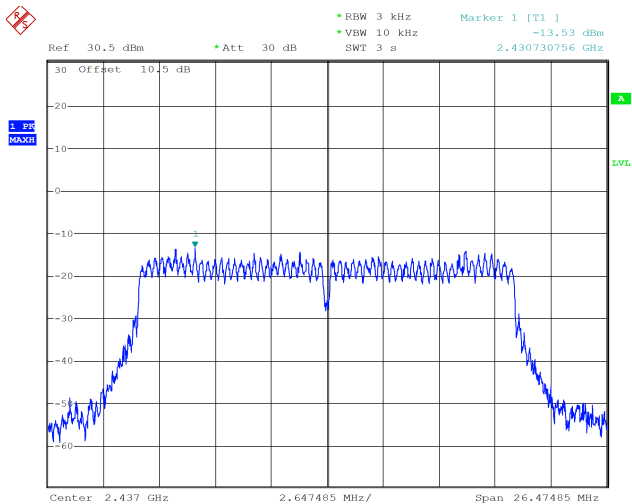
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:21:08

n20_2412MHz_Chain 1 -11.36 dBm/3kHz



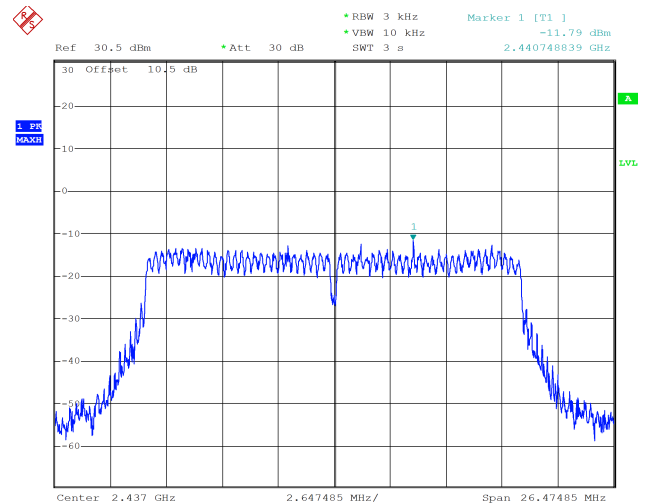
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:29:54

n20_2437MHz_Chain 0 -13.53 dBm/3kHz



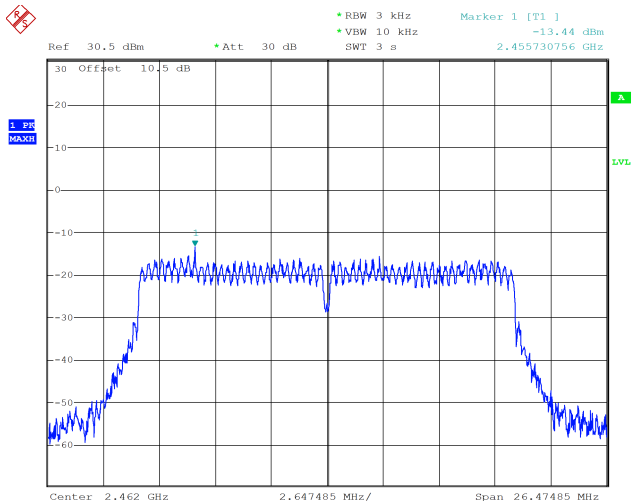
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:22:51

n20_2437MHz_Chain 1 -11.79 dBm/3kHz



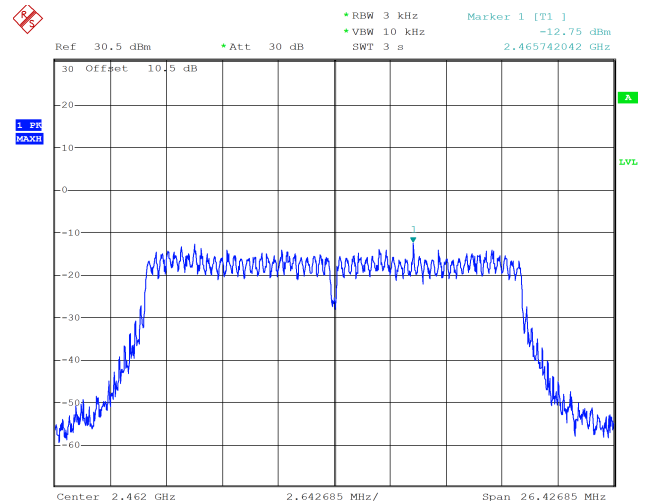
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:31:03

n20_2462MHz_Chain 0 -13.44 dBm/3kHz



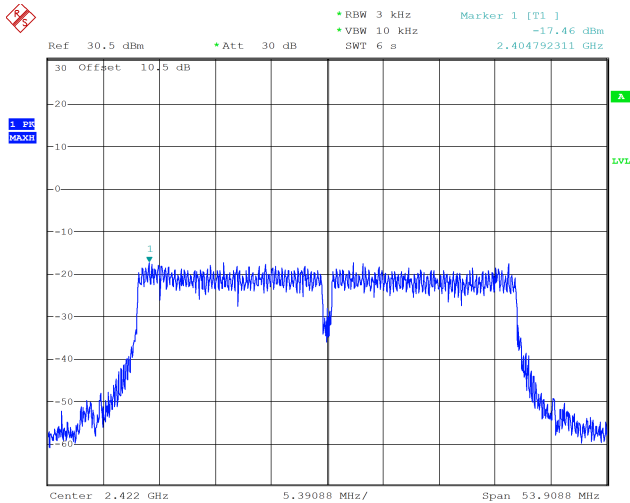
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:25:49

n20_2462MHz_Chain 1 -12.75 dBm/3kHz



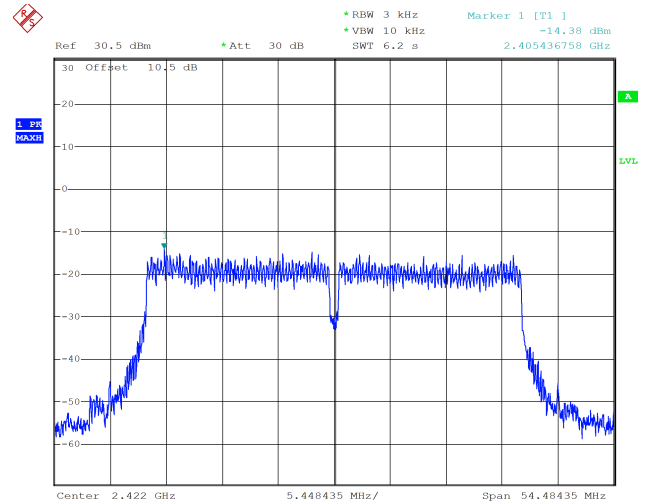
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:33:45

n40_2422MHz_Chain 0 -17.46 dBm/3kHz



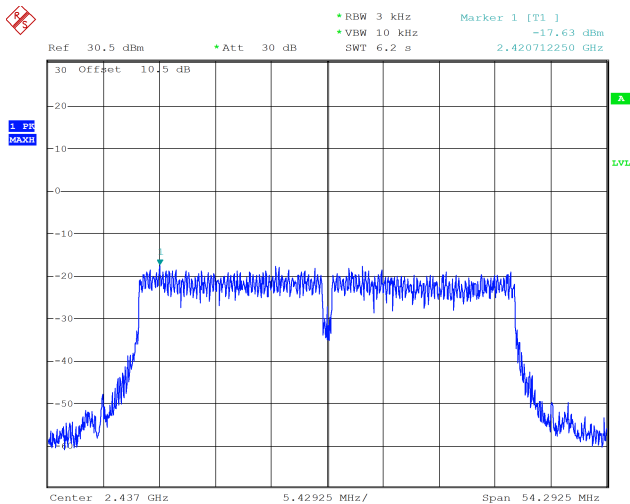
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:28:48

n40_2422MHz_Chain 1 -14.38 dBm/3kHz



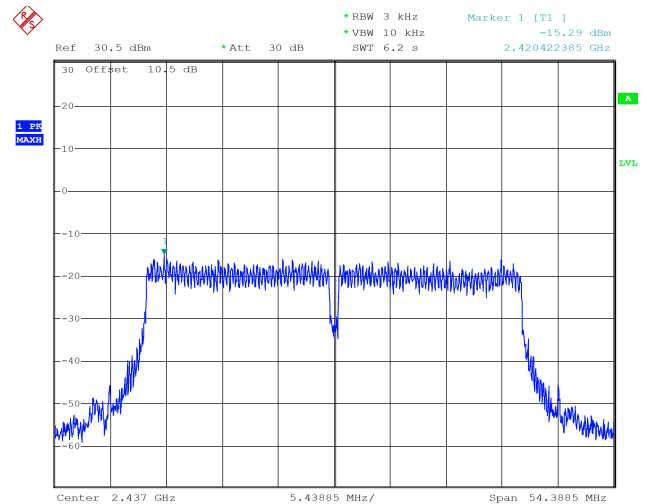
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:37:10

n40_2437MHz_Chain 0 -17.63 dBm/3kHz



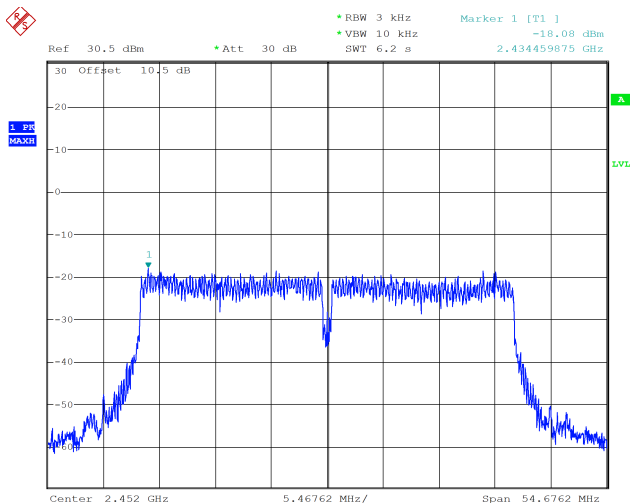
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:30:24

n40_2437MHz_Chain 1 -15.29 dBm/3kHz



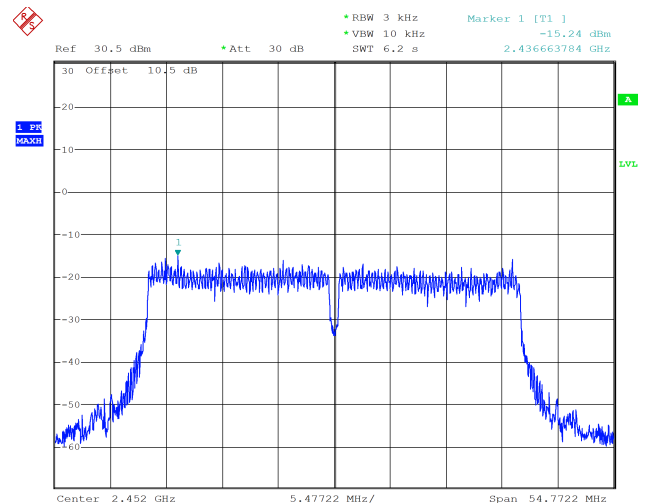
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:38:31

n40_2452MHz_Chain 0 -18.08 dBm/3kHz



Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:33:17

n40_2452MHz_Chain 1 -15.24 dBm/3kHz



Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 17:40:52

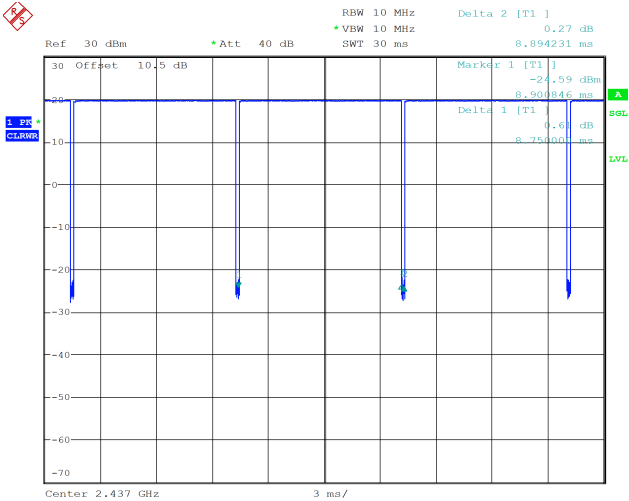
Duty Cycle

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/Ton (Hz)	VBW Setting (kHz)
b_2437MHz_Chain 0	8.750	8.894	98.38	0.07	114	0.20
g_2437MHz_Chain 0	1.458	1.635	89.17	0.50	686	1
n20_2437MHz_Chain 0	0.704	0.896	78.57	1.05	1421	2
n40_2437MHz_Chain 0	0.369	0.561	65.78	1.82	2713	3

Duty Cycle = Ton/(Ton+Toff)*100%

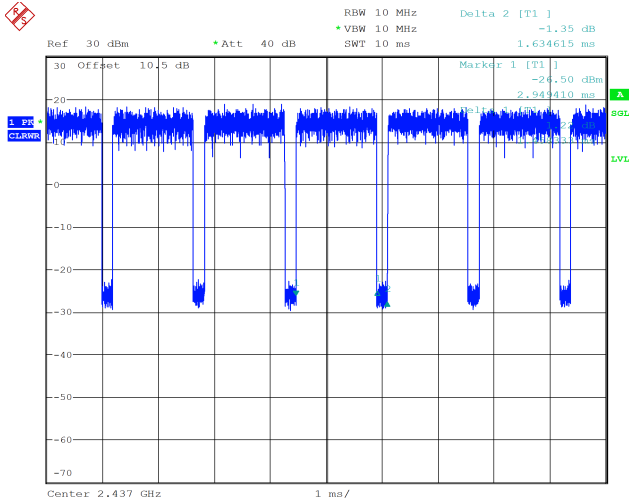
2.4G

b_2437MHz_Chain 0
8.750 ms,8.894ms



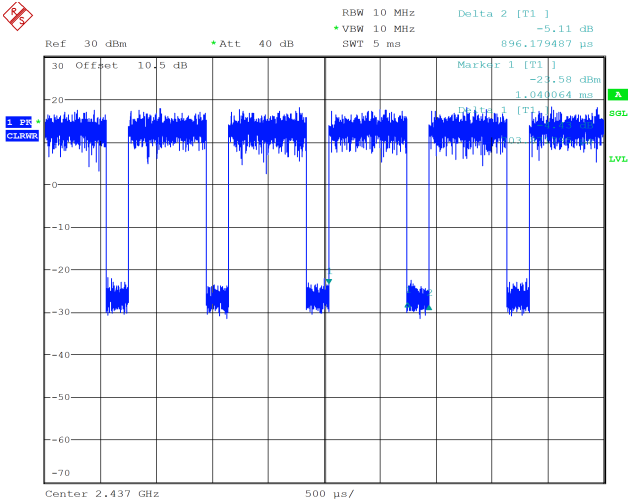
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 15:59:31

g_2437MHz_Chain 0
1.458 ms,1.635ms



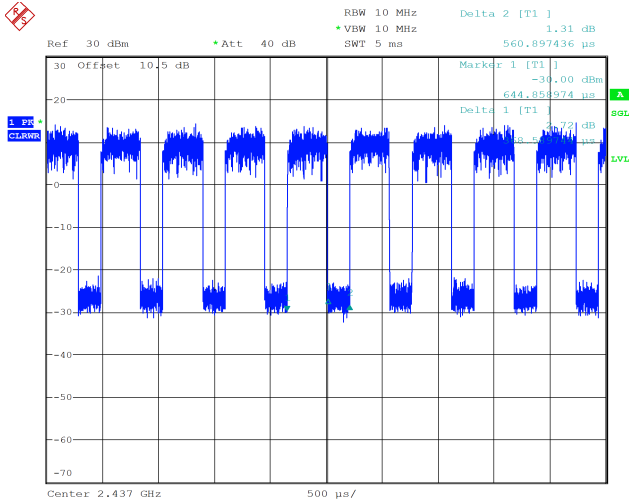
Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:00:41

n20_2437MHz_Chain 0
0.704 ms,0.896ms



Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:01:44

n40_2437MHz_Chain 0
0.369 ms,0.561ms



Comment: ProjectNo.:CR240103476-RF Tester:Lingling Li
Date: 3.FEB.2024 16:02:47