

FCC Part 15.247

Test Information:

Serial No.:	2GSF-12	Test Date:	2024/02/02
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.4	Relative Humidity: (%)	55	ATM Pressure: (kPa)	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	FSU26	100147	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211002	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).

Tester:

Lingling Li

Reviewer:

Silence Wu

6dB Emission Bandwidth

BLE 1M

Mode	Value (MHz)	Limit (MHz)	Result
Low	0.697	0.5	Pass
Middle	0.703	0.5	Pass
High	0.681	0.5	Pass

BLE 2M

Mode	Value (MHz)	Limit (MHz)	Result
Low	1.173	0.5	Pass
Middle	1.173	0.5	Pass
High	1.170	0.5	Pass

99% Occupied Bandwidth

BLE 1M

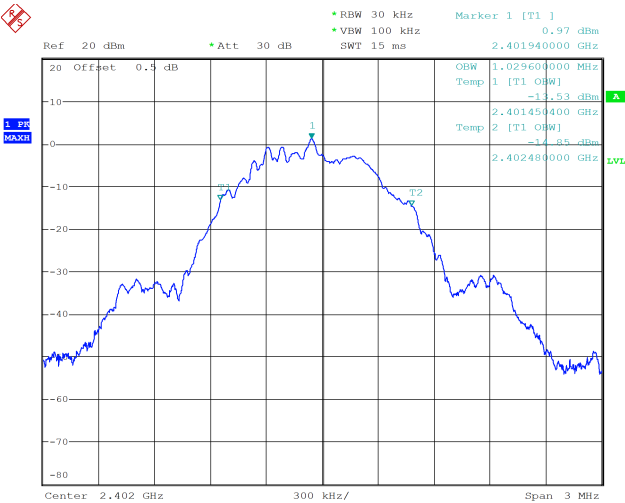
Mode	99% OBW (MHz)
Low	1.030
Middle	1.032
High	1.030

BLE 2M

Mode	99% OBW (MHz)
Low	2.040
Middle	2.045
High	2.040

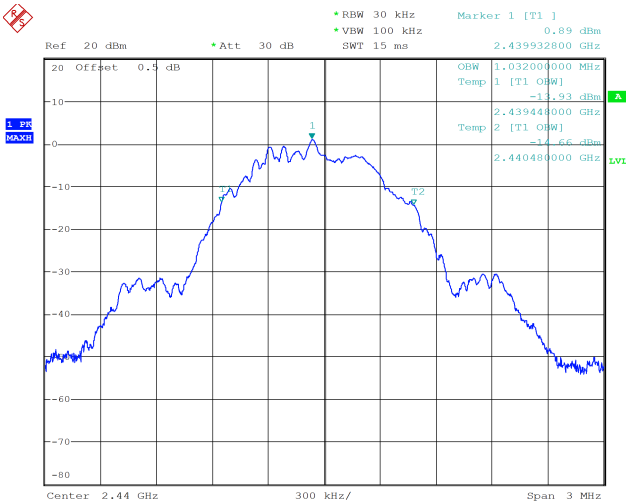
BLE 1M

Low 1.030 MHz



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:26:54

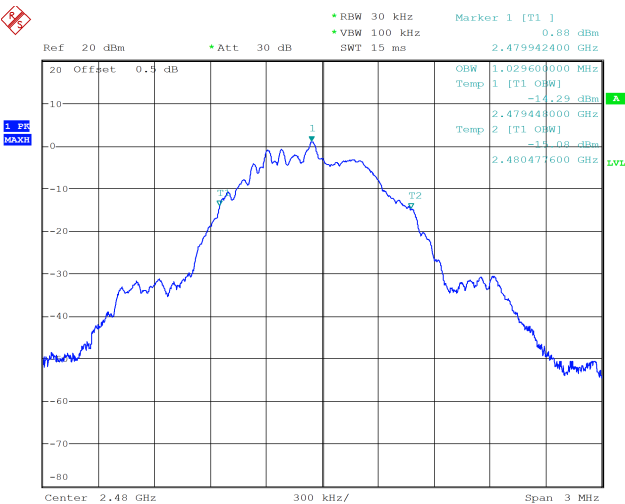
Middle 1.032 MHz



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:28:58

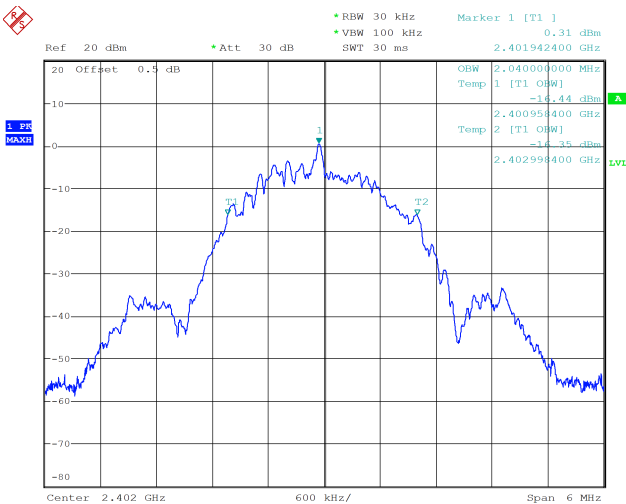
BLE 2M

High 1.030 MHz



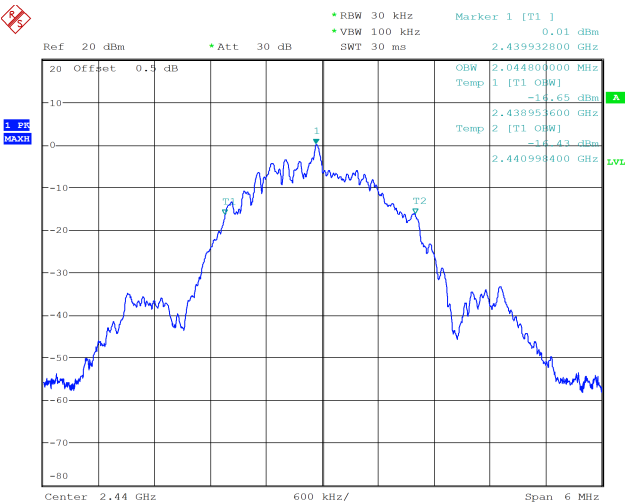
Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:32:14

Low 2.040 MHz



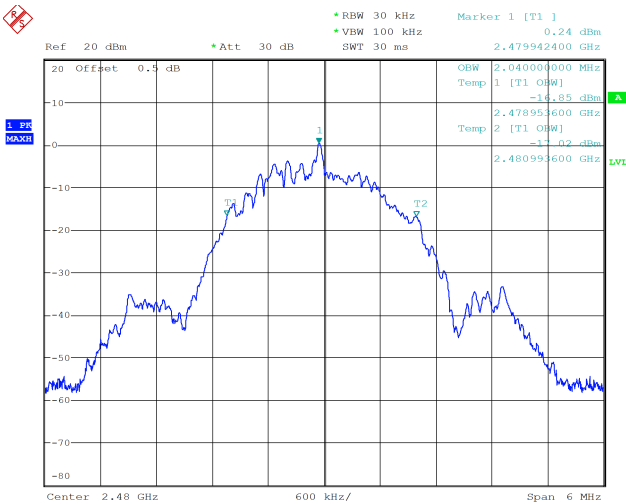
Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:35:28

Middle 2.045 MHz



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:38:04

High 2.040 MHz



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:41:25

Maximum Conducted Output Power

BLE 1M

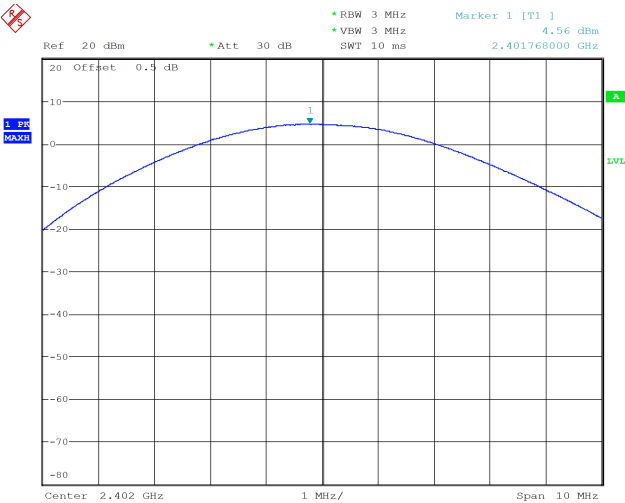
Mode	Value (dBm)	Limit (dBm)	Result
Low	4.56	30.00	Pass
Middle	4.67	30.00	Pass
High	4.25	30.00	Pass

BLE 2M

Mode	Value (dBm)	Limit (dBm)	Result
Low	4.53	30.00	Pass
Middle	4.73	30.00	Pass
High	4.32	30.00	Pass

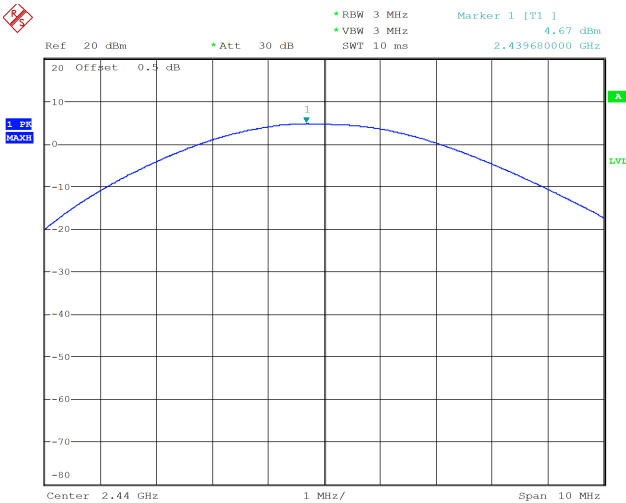
BLE 1M

Low 4.56 dBm



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:24:20

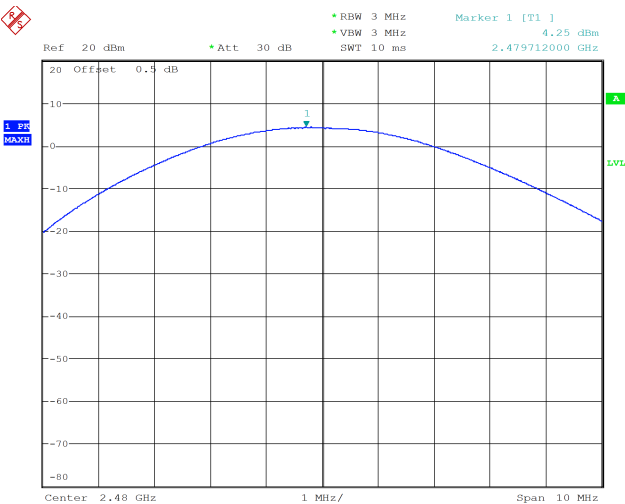
Middle 4.67 dBm



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:28:00

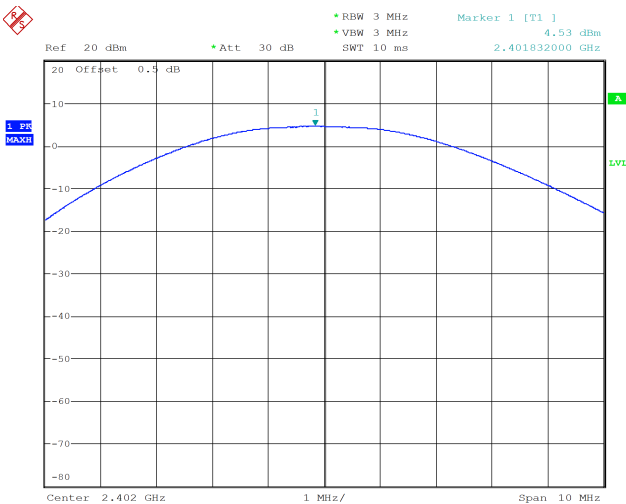
BLE 2M

High 4.25 dBm



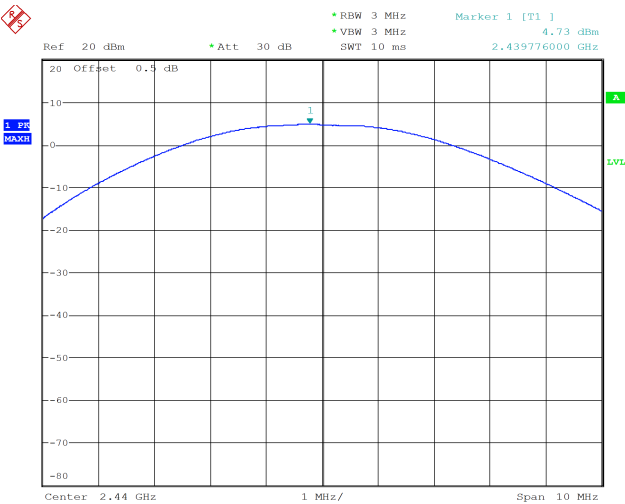
Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:29:58

Low 4.53 dBm



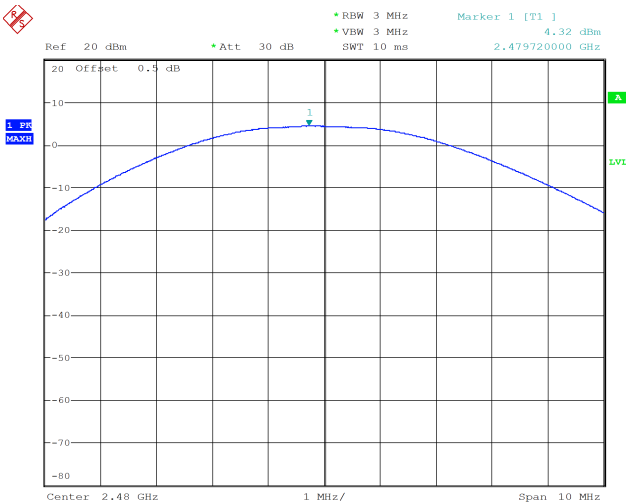
Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:33:04

Middle 4.73 dBm



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:36:49

High 4.32 dBm



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:39:02

100 kHz Bandwidth of Frequency Band Edge

BLE 1M

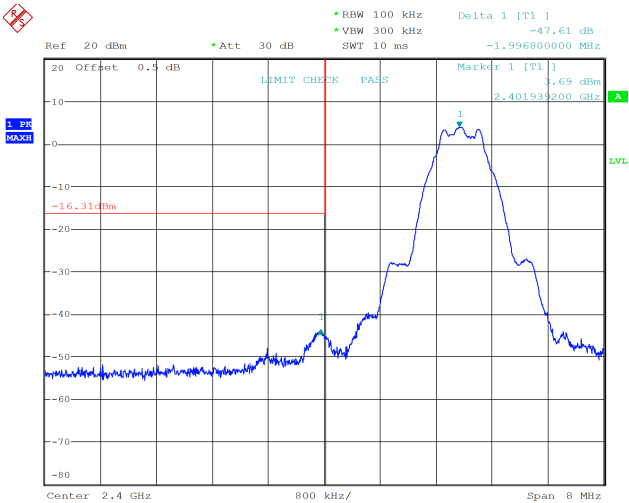
Mode	Value (dB)	Limit (dB)	Result
Low	47.61	20.00	Pass
High	56.03	20.00	Pass

BLE 2M

Mode	Value (dB)	Limit (dB)	Result
Low	32.93	20.00	Pass
High	47.89	20.00	Pass

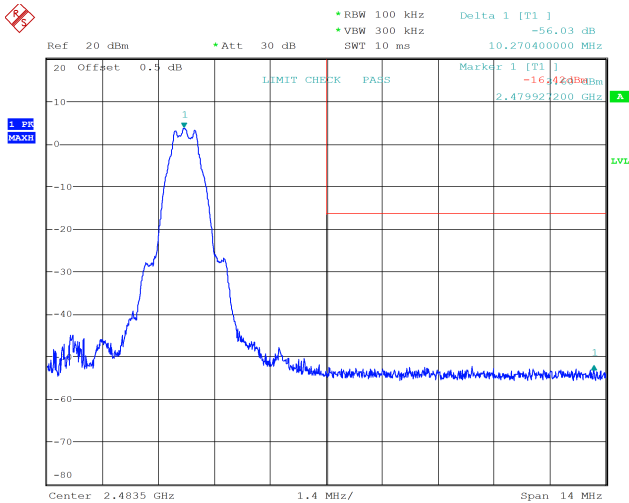
BLE 1M

Low 47.61 dB



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:25:57

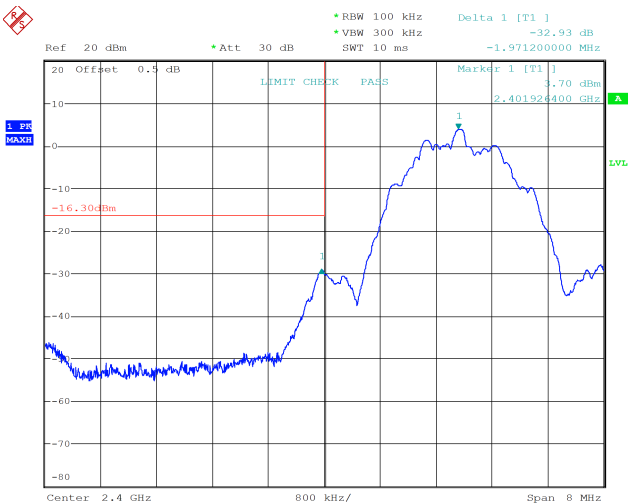
High 56.03 dB



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:31:11

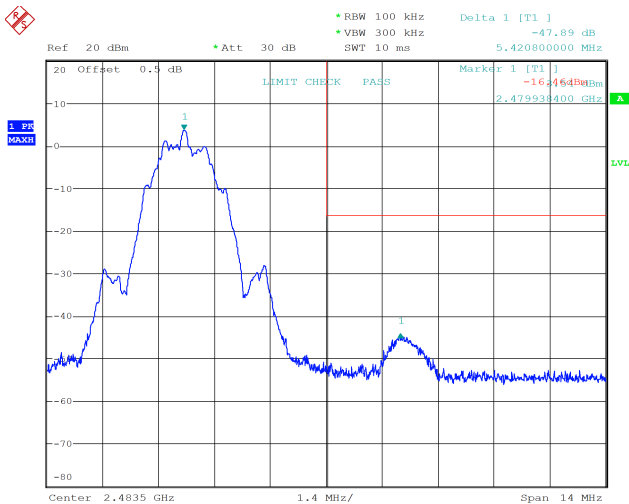
BLE 2M

Low 32.93 dB



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:34:20

High 47.89 dB



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:40:16

Power Spectral Density

BLE 1M

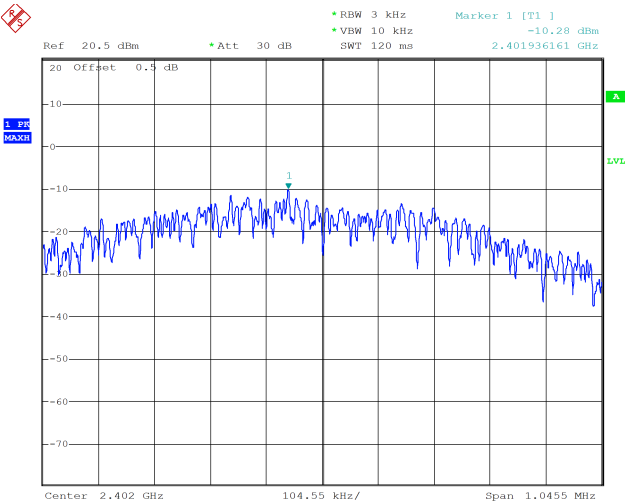
Mode	Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low	-10.43	8.00	Pass
Middle	-10.42	8.00	Pass
High	-10.40	8.00	Pass

BLE 2M

Mode	Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low	-13.34	8.00	Pass
Middle	-12.69	8.00	Pass
High	-14.03	8.00	Pass

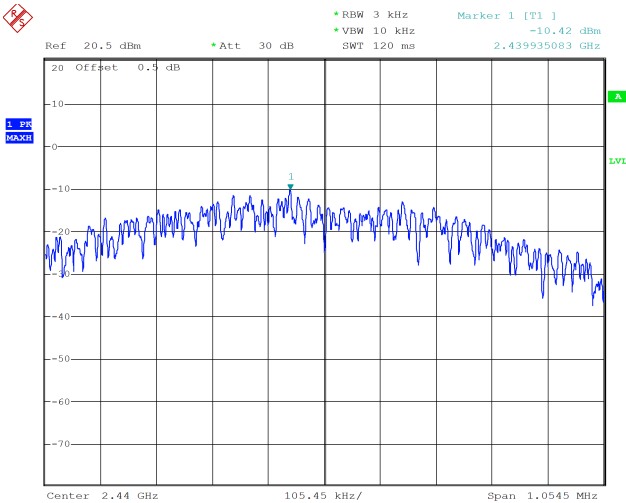
BLE 1M

Low -10.43 dBm/3kHz



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:27:16

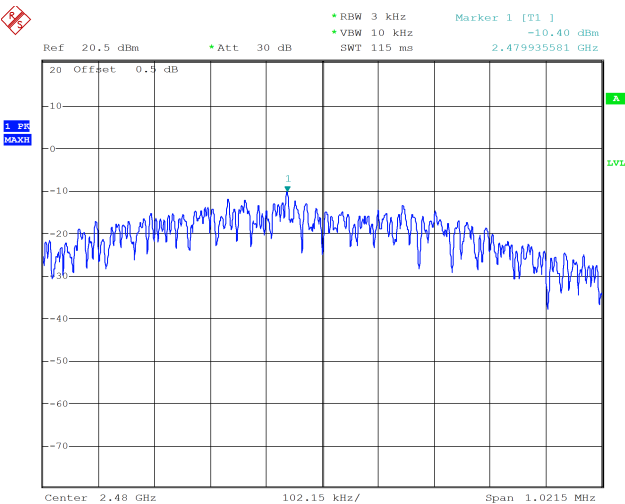
Middle -10.42 dBm/3kHz



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:29:20

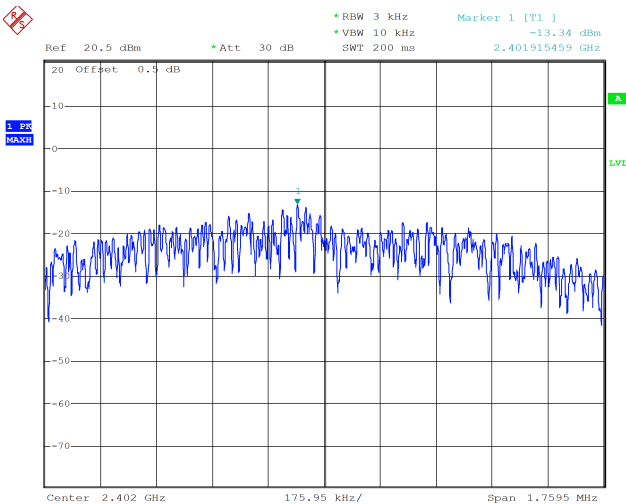
BLE 2M

High -10.40 dBm/3kHz



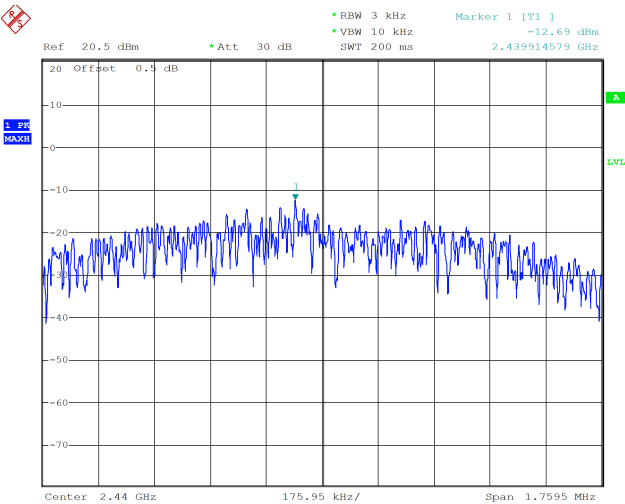
Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:32:41

Low -13.34 dBm/3kHz



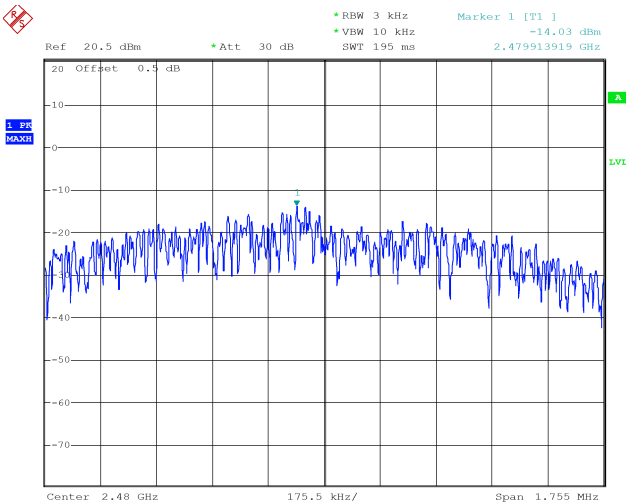
Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:36:00

Middle -12.69 dBm/3kHz



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:38:31

High -14.03 dBm/3kHz



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:41:51

Duty Cycle

BLE 1M

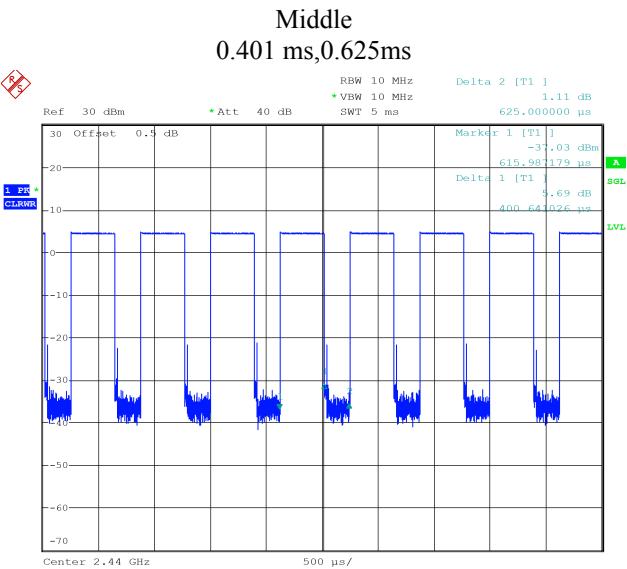
Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
Middle	0.401	0.625	64.16	2496	3

BLE 2M

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
Middle	0.216	0.625	34.56	4622	5

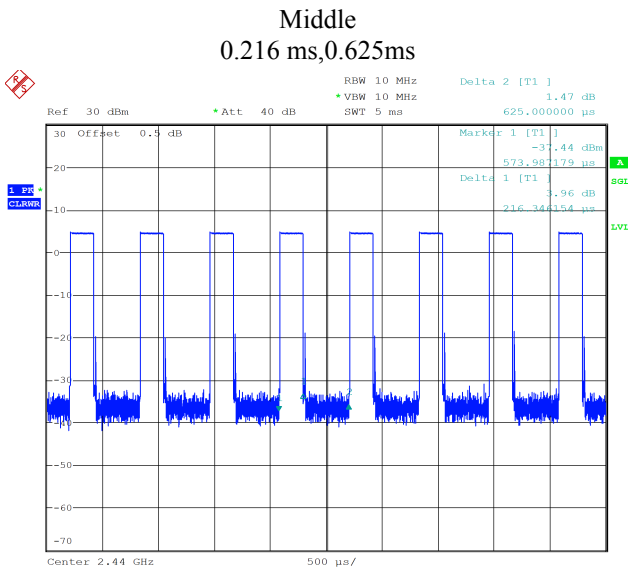
Duty Cycle = Ton/(Ton+Toff)*100%

BLE 1M



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:22:39

BLE 2M



Comment: ProjectNo.:CR240104183-RF Tester:Lingling Li
Date: 2.FEB.2024 18:23:31