

FCC Part 15.247

Test Information:

Serial No.:	2GUK-1	Test Date:	2024/02/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Chin	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.3	Relative Humidity: (%)	51	ATM Pressure: (kPa)	101.0
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/03/31	2024/03/30
zhuoxiang	Coaxial Cable	SMA-178	211001	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).

Chin Qin

Gary Ling

6dB Emission Bandwidth

BLE 1M

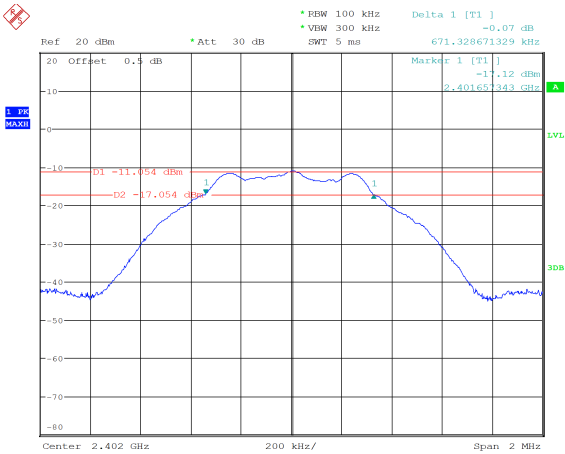
Mode	Value (MHz)	Limit (MHz)	Result
Low	0.671	0.5	Pass
Middle	0.671	0.5	Pass
High	0.515	0.5	Pass

BLE 2M

Mode	Value (MHz)	Limit (MHz)	Result
Low	1.155	0.5	Pass
Middle	1.155	0.5	Pass
High	1.159	0.5	Pass

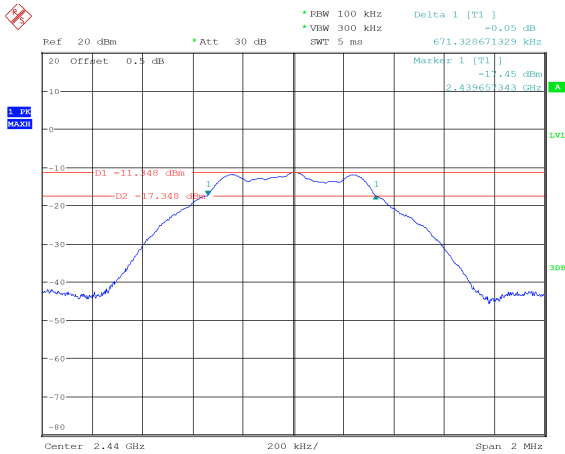
BLE 1M

Low 0.671 MHz



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 08:51:04

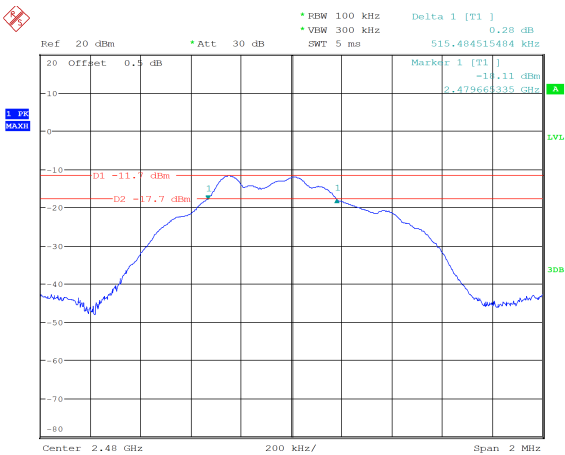
Middle 0.671 MHz



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 08:54:11

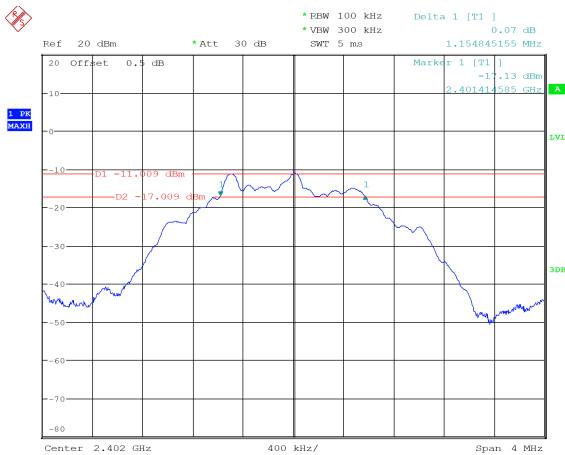
BLE 2M

High 0.515 MHz



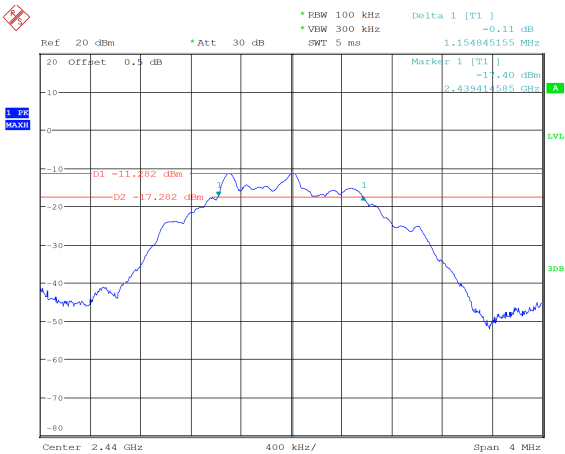
ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:36:37

Low 1.155 MHz



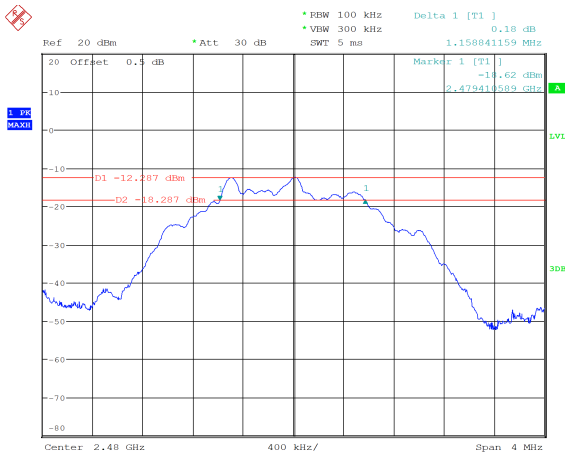
ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:05:53

Middle 1.155 MHz



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:12:03

High 1.159 MHz



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:17:17

99% Occupied Bandwidth

BLE 1M

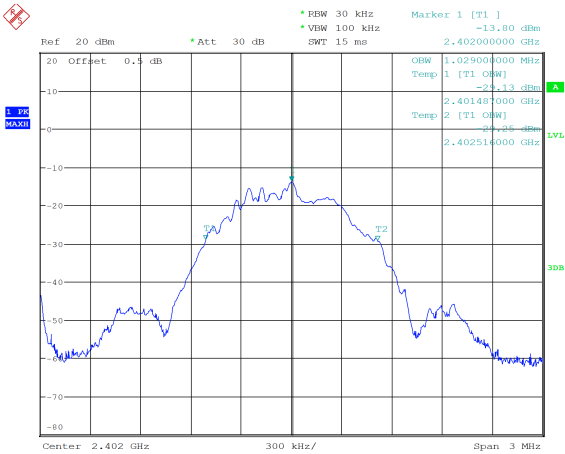
Mode	99% OBW (MHz)
Low	1.029
Middle	1.029
High	1.032

BLE 2M

Mode	99% OBW (MHz)
Low	2.046
Middle	2.052
High	2.052

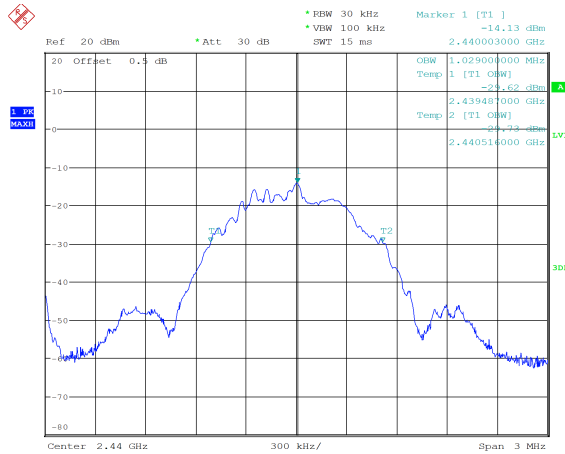
BLE 1M

Low 1.029 MHz



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 08:51:31

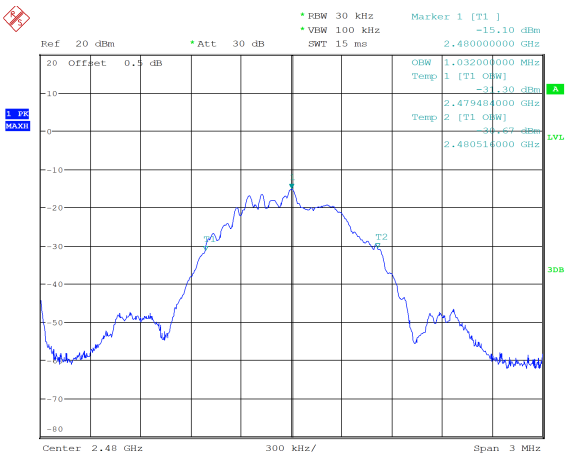
Middle 1.029 MHz



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 08:54:32

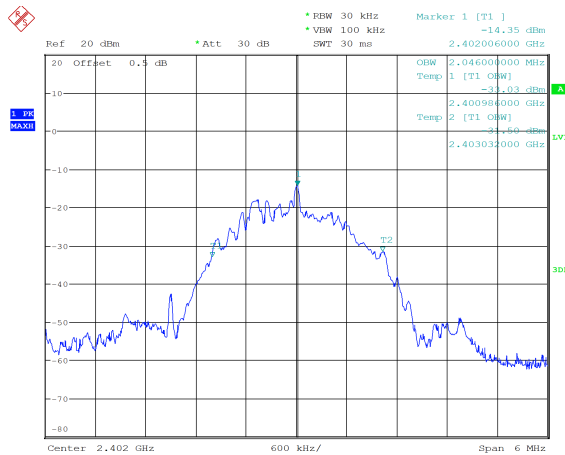
BLE 2M

High 1.032 MHz



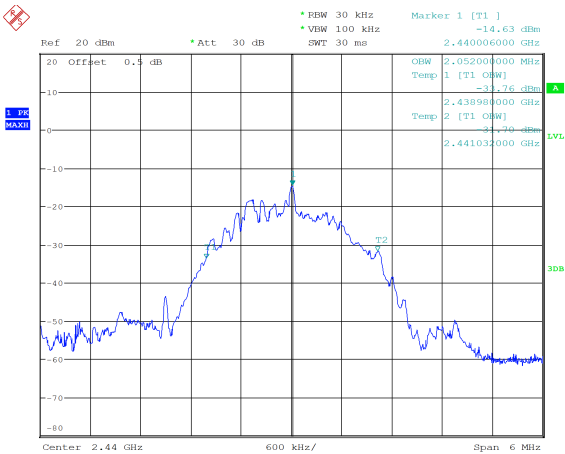
ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 08:58:50

Low 2.046 MHz



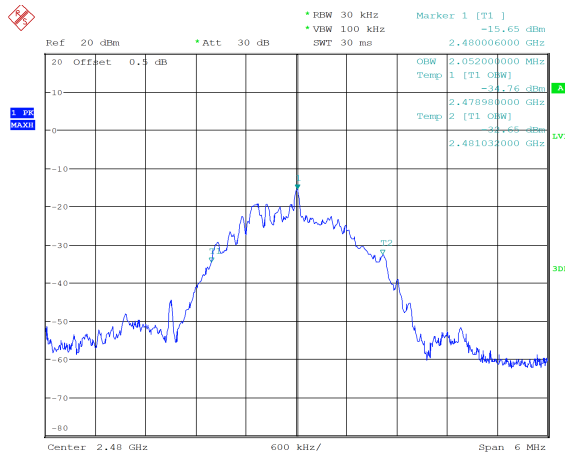
ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:06:20

Middle 2.052 MHz



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:12:37

High 2.052 MHz



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:17:40

Maximum Conducted Output Power**BLE 1M**

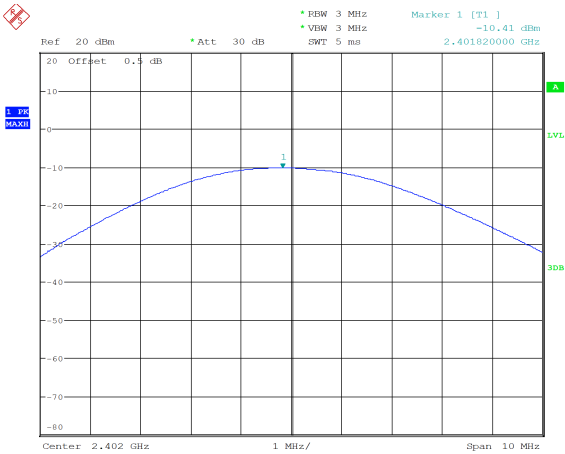
Mode	Value (dBm)	Limit (dBm)	Result
Low	-10.41	30.00	Pass
Middle	-10.13	30.00	Pass
High	-11.18	30.00	Pass

BLE 2M

Mode	Value (dBm)	Limit (dBm)	Result
Low	-10.23	30.00	Pass
Middle	-10.46	30.00	Pass
High	-11.38	30.00	Pass

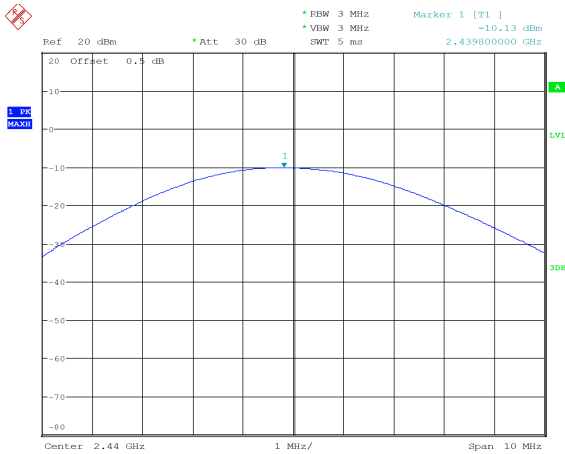
BLE 1M

Low -10.41 dBm



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 08:49:45

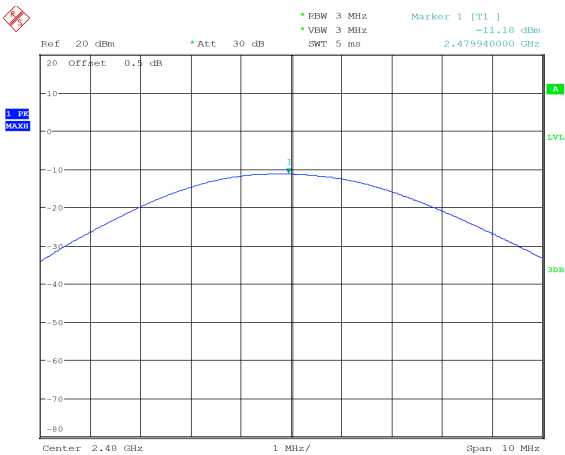
Middle -10.13 dBm



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:34:00

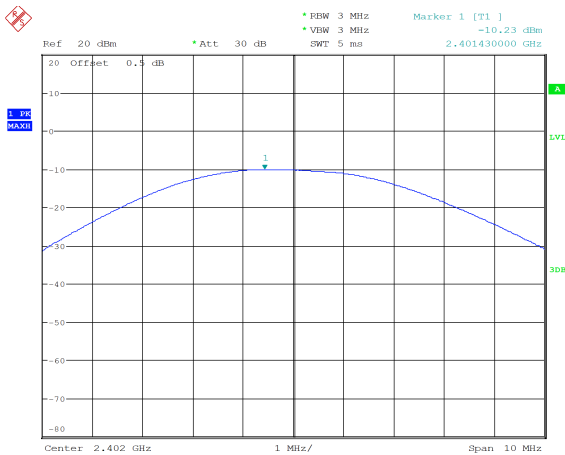
BLE 2M

High -11.18 dBm



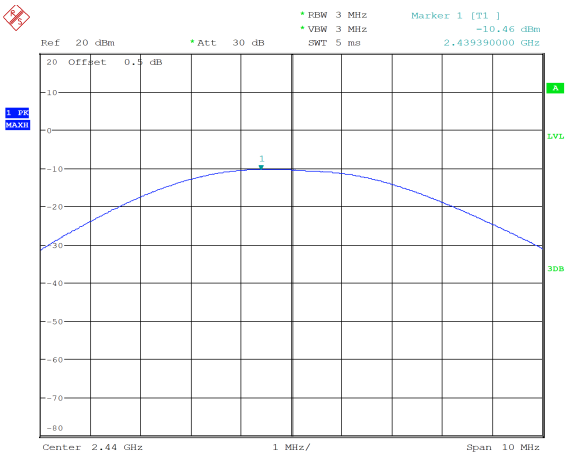
ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:32:21

Low -10.23 dBm



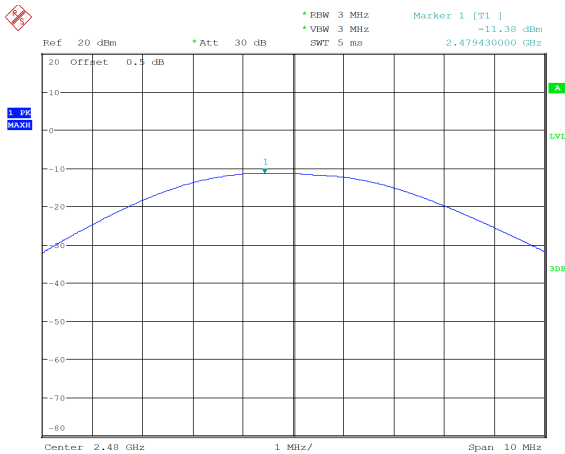
ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:04:33

Middle -10.46 dBm



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:11:41

High -11.38 dBm



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:15:26

100 kHz Bandwidth of Frequency Band Edge

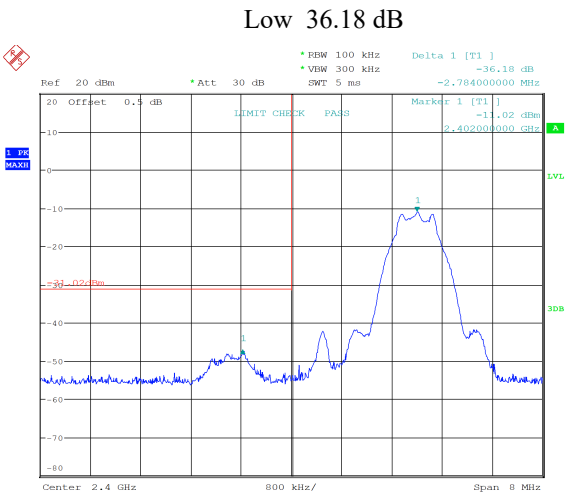
BLE 1M

Mode	Value (dB)	Limit (dB)	Result
Low	36.18	20.00	Pass
High	40.23	20.00	Pass

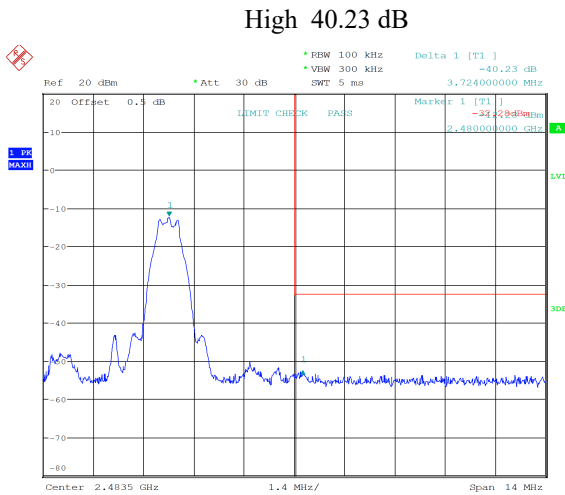
BLE 2M

Mode	Value (dB)	Limit (dB)	Result
Low	30.67	20.00	Pass
High	39.93	20.00	Pass

BLE 1M

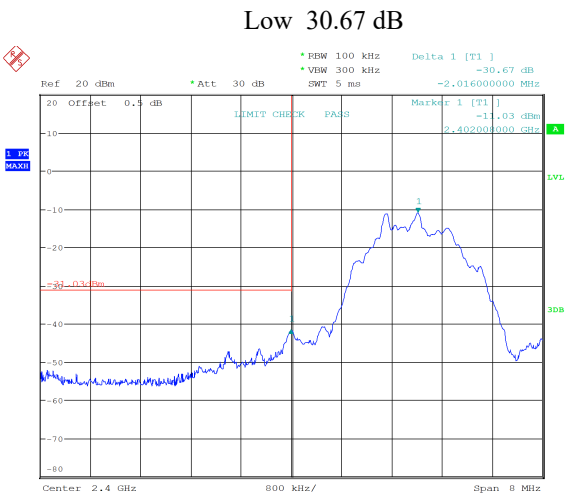


ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 08:50:45

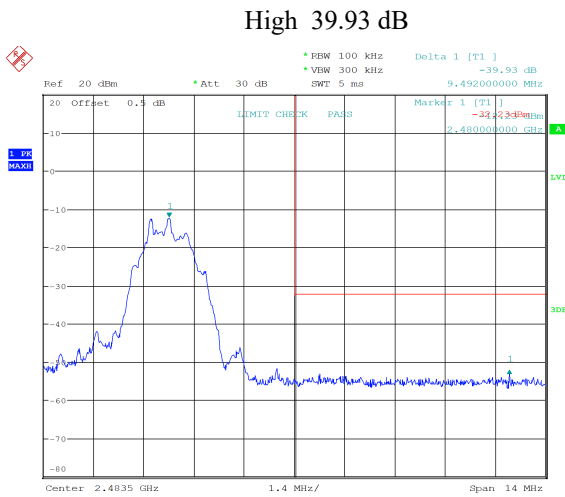


ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 08:58:07

BLE 2M



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:05:28



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:16:44

Power Spectral Density

BLE 1M

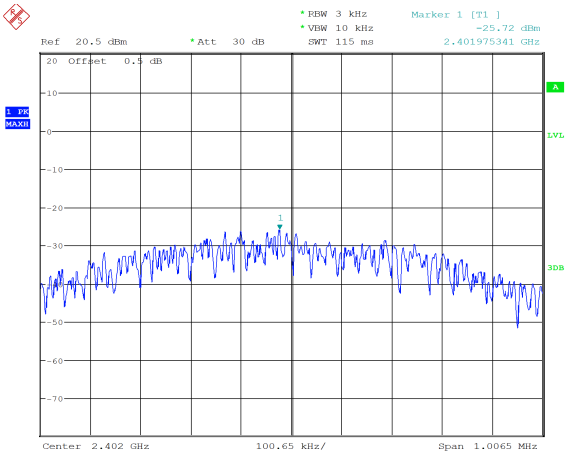
Mode	Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low	-25.72	8.00	Pass
Middle	-26.06	8.00	Pass
High	-27.02	8.00	Pass

BLE 2M

Mode	Value (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low	-29.04	8.00	Pass
Middle	-29.36	8.00	Pass
High	-30.37	8.00	Pass

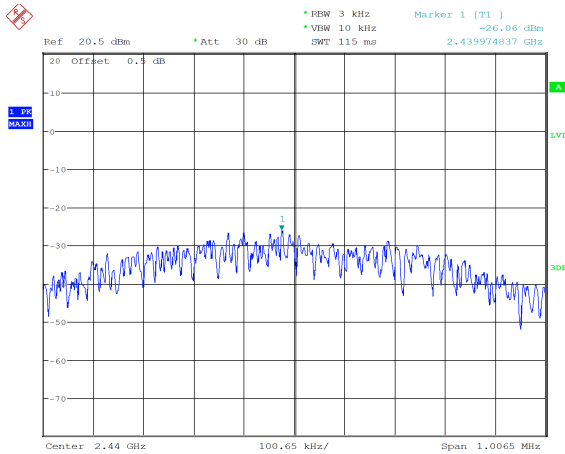
BLE 1M

Low -25.72 dBm/3kHz



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 08:53:24

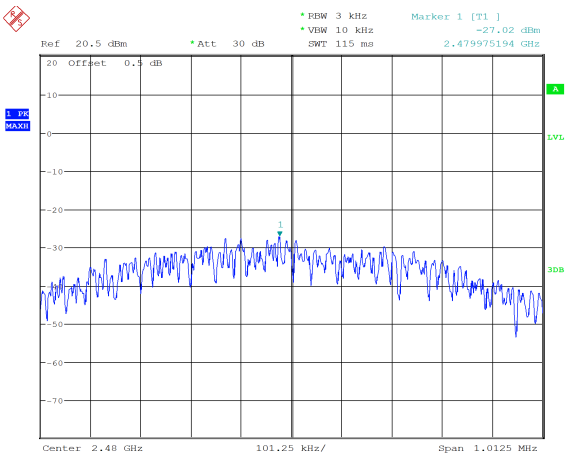
Middle -26.06 dBm/3kHz



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 08:55:57

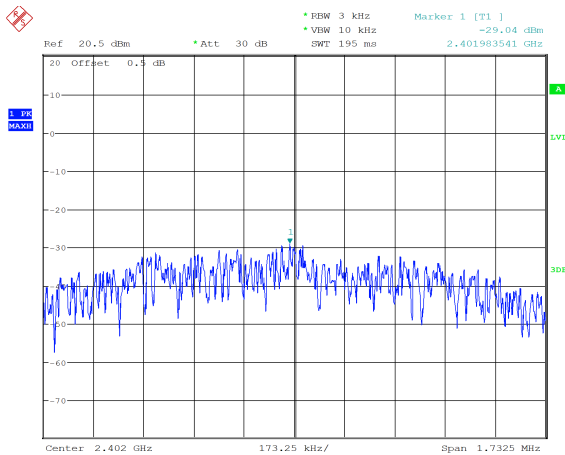
BLE 2M

High -27.02 dBm/3kHz



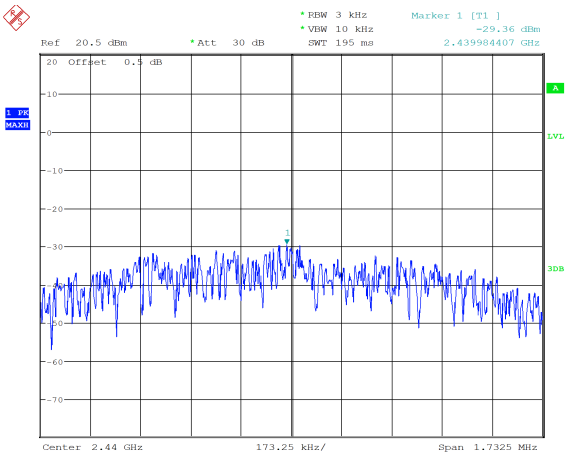
ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:01:56

Low -29.04 dBm/3kHz



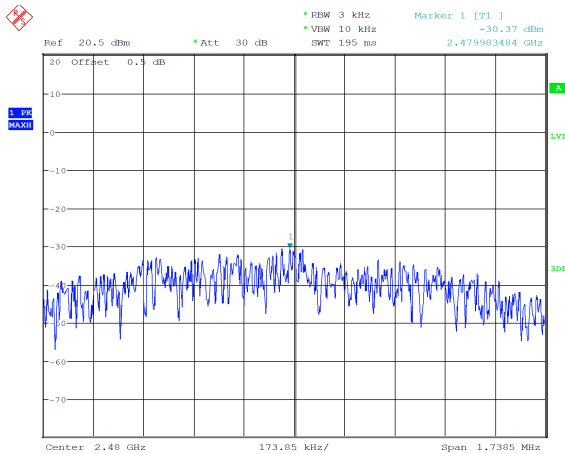
ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:08:56

Middle -29.36 dBm/3kHz



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:14:18

High -30.37 dBm/3kHz



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:19:32

Duty Cycle

BLE 1M

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
Low	0.404	0.624	64.74	2475	3
Middle	0.413	0.634	65.14	2421	3
High	0.401	0.627	63.96	2494	3

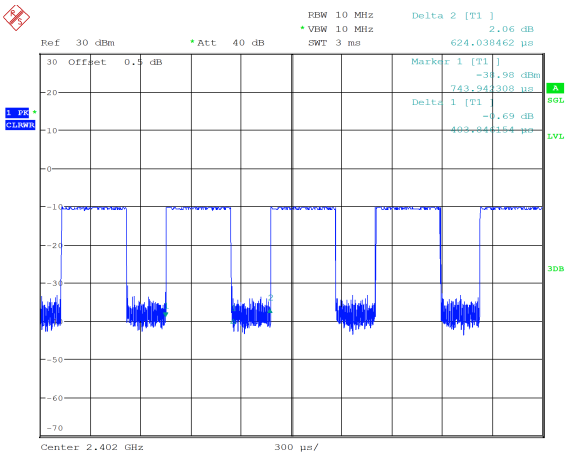
BLE 2M

Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	1/Ton (Hz)	VBW Setting (kHz)
Low	0.216	0.624	34.62	4630	5
Middle	0.226	0.624	36.22	4425	5
High	0.218	0.623	34.99	4587	5

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

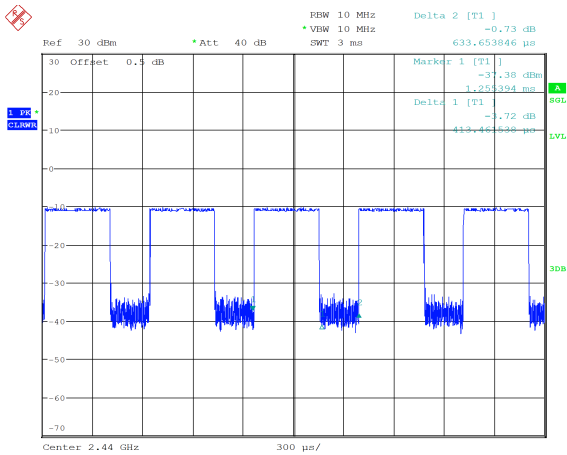
BLE 1M

Low
0.404 ms,0.624ms



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 08:52:56

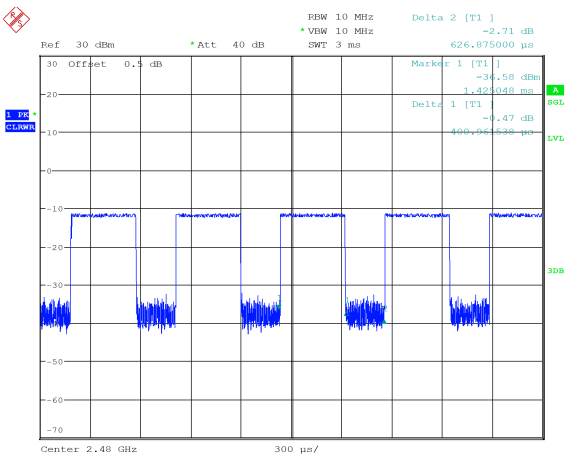
Middle
0.413 ms,0.634ms



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 08:55:28

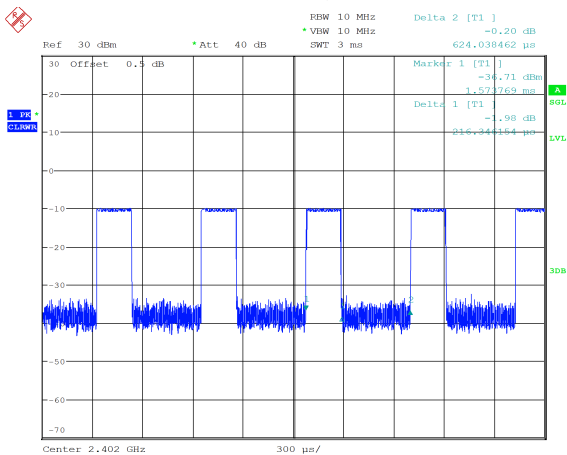
BLE 2M

High
0.401 ms,0.627ms



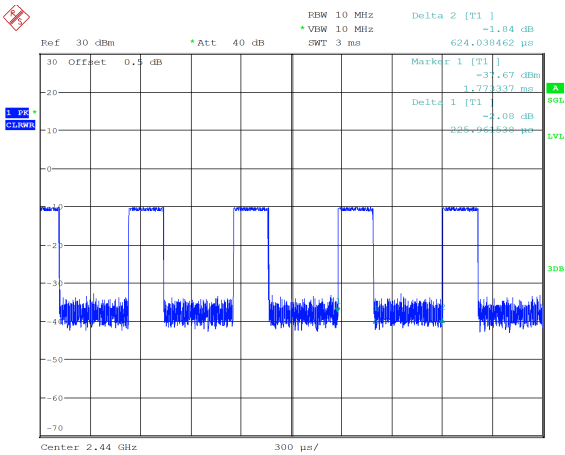
ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:01:29

Low
0.216 ms,0.624ms



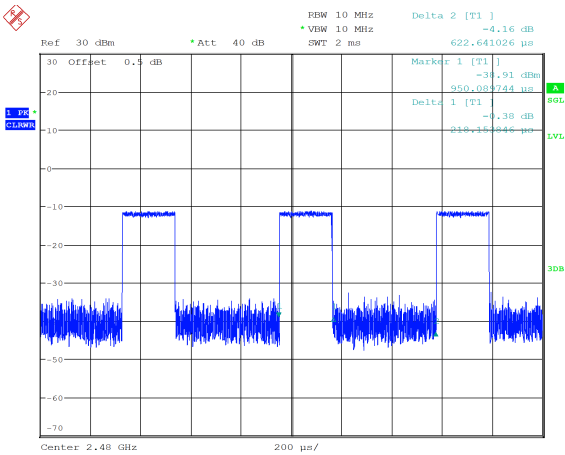
ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:08:19

Middle
0.226 ms,0.624ms



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:13:48

High
0.218 ms,0.623ms



ProjectNo.:CR240104515-RF Tester:Chin
Date: 4.FEB.2024 09:18:53