

Test Information:

Sample No.:	2TA4-2	Test Date:	2024-10-24
Test Site:	RF	Test Mode:	Transmitting
Tester:	Chin Qin	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	26.4	Relative Humidity: (%)	53	ATM Pressure: (kPa)	100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
R&S	Spectrum Analyzer	FSU26	200256	2024/04/01	2025/03/31

* 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

BLE 1M

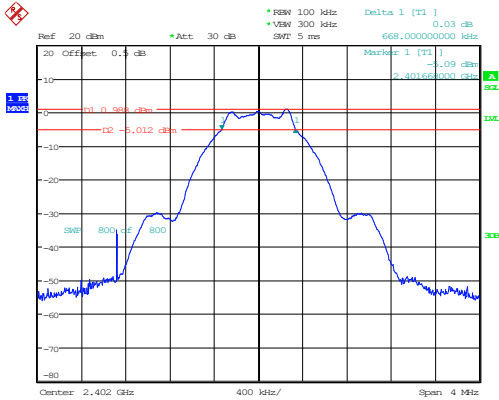
Channel	Result (MHz)	Limit (MHz)	Verdict
Low	0.668	≥ 0.5	Pass
Middle	0.672	≥ 0.5	Pass
High	0.676	≥ 0.5	Pass

BLE 2M

Channel	Result (MHz)	Limit (MHz)	Verdict
Low	1.176	≥ 0.5	Pass
Middle	1.180	≥ 0.5	Pass
High	1.176	≥ 0.5	Pass

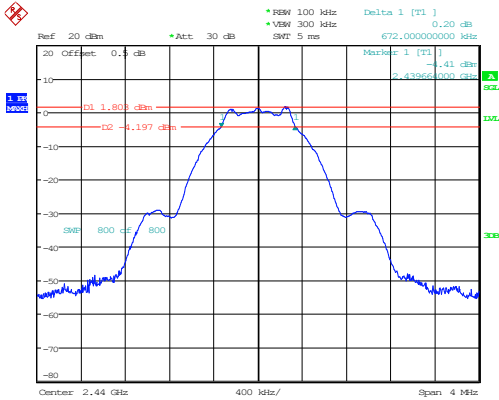
BLE 1M

BLE_1M_Low_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:11:18

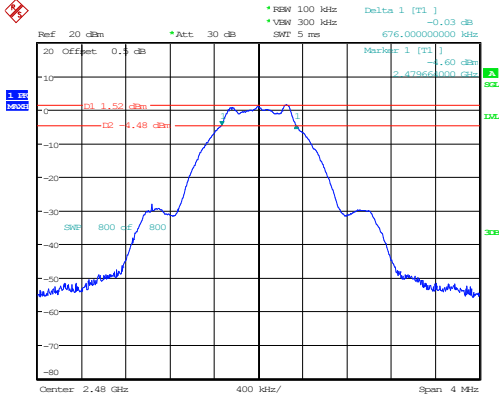
BLE_1M_Middle_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:13:24

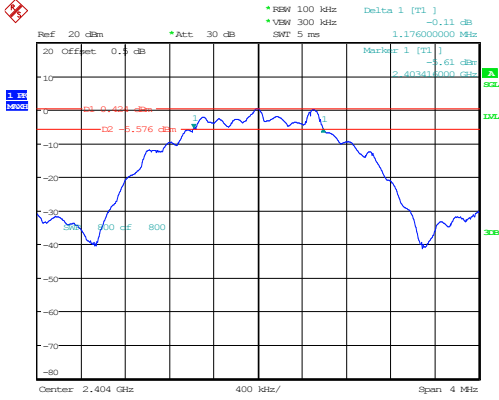
BLE 2M

BLE_1M_High_Channel



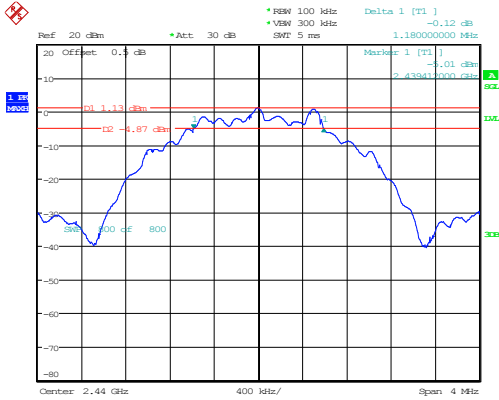
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:16:30

BLE_2M_Low_Channel



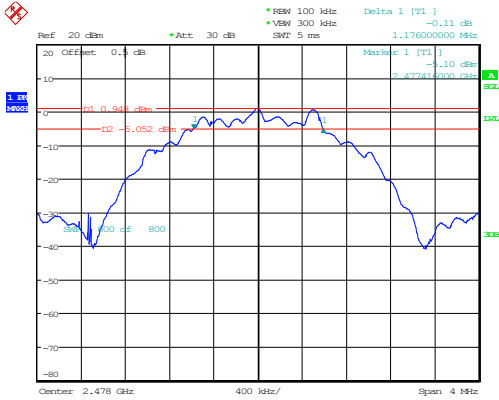
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:23:25

BLE_2M_Middle_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:24:23

BLE_2M_High_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:25:48

99% Occupied Bandwidth

BLE 1M

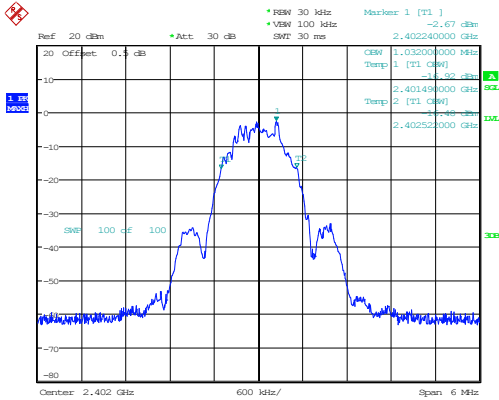
Channel	99% OBW (MHz)
Low	1.032
Middle	1.032
High	1.038

BLE 2M

Channel	99% OBW (MHz)
Low	2.064
Middle	2.058
High	2.064

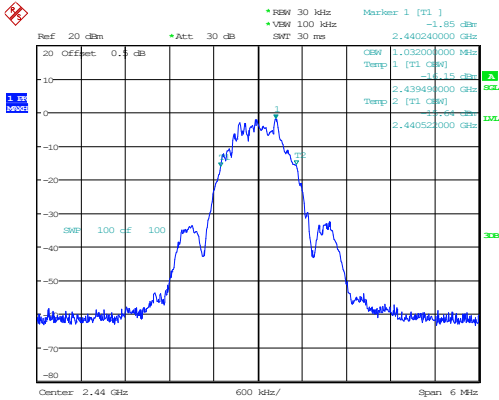
BLE 1M

BLE_1M_Low_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:11:41

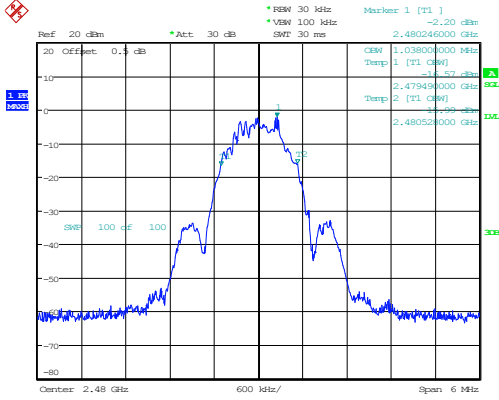
BLE_1M_Middle_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:13:46

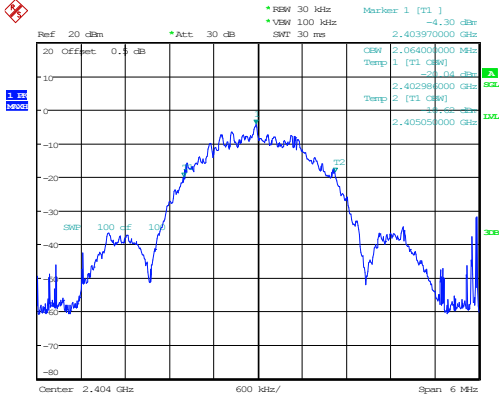
BLE 2M

BLE_1M_High_Channel



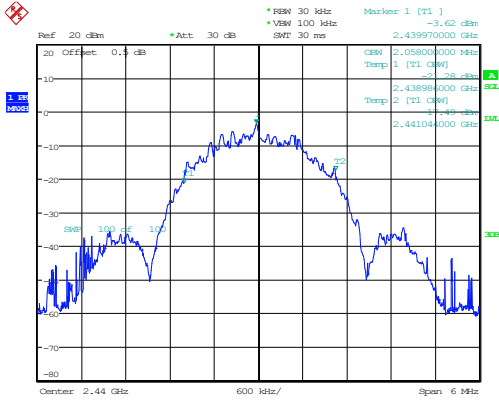
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:16:52

BLE_2M_Low_Channel



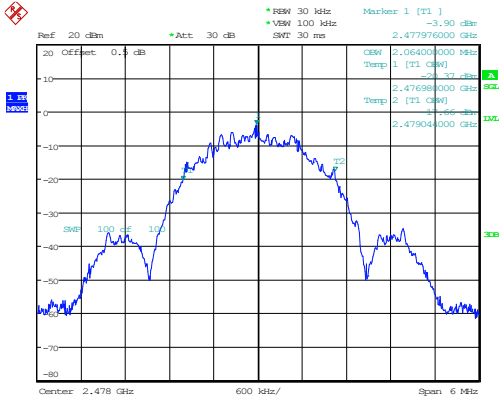
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:28:12

BLE_2M_Middle_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:29:19

BLE_2M_High_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:30:29

Maximum Conducted Output Power

BLE 1M

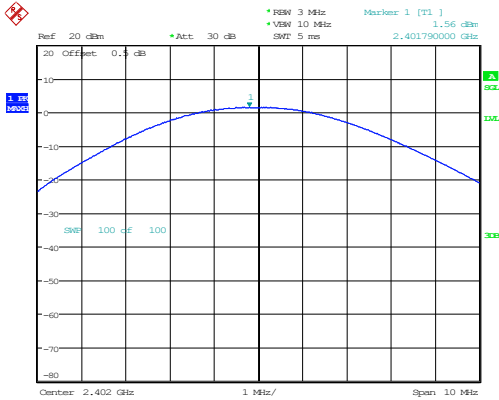
Channel	Result (dBm)	Limit (dBm)	Verdict
Low	1.56	30.00	Pass
Middle	2.41	30.00	Pass
High	2.12	30.00	Pass

BLE 2M

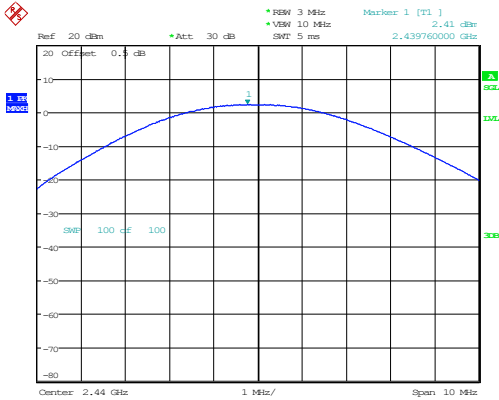
Channel	Result (dBm)	Limit (dBm)	Verdict
Low	1.71	30.00	Pass
Middle	2.41	30.00	Pass
High	2.25	30.00	Pass

BLE 1M

BLE_1M_Low_Channel

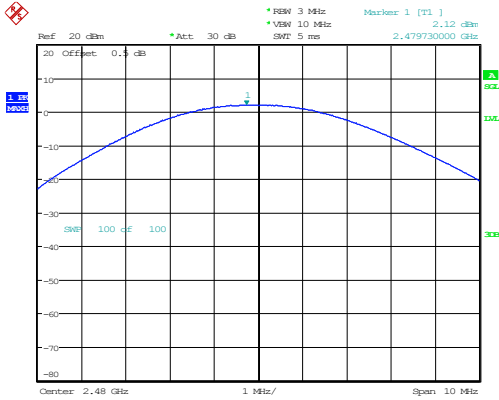


BLE_1M_Middle_Channel

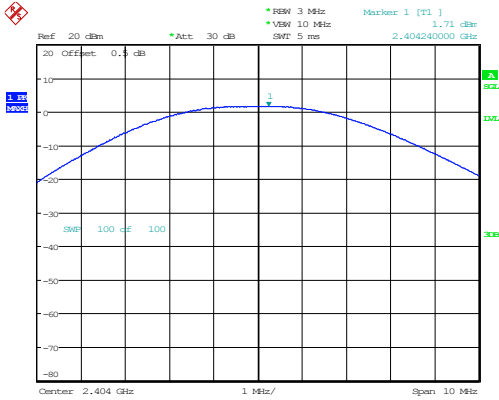


BLE 2M

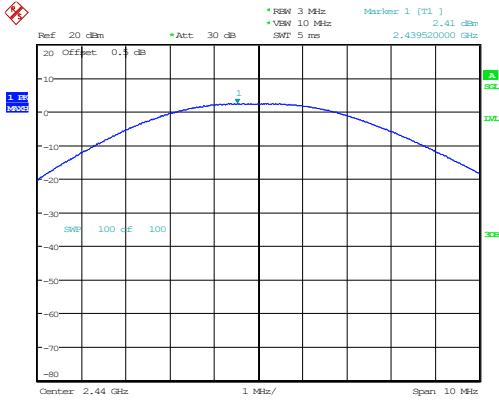
BLE_1M_High_Channel



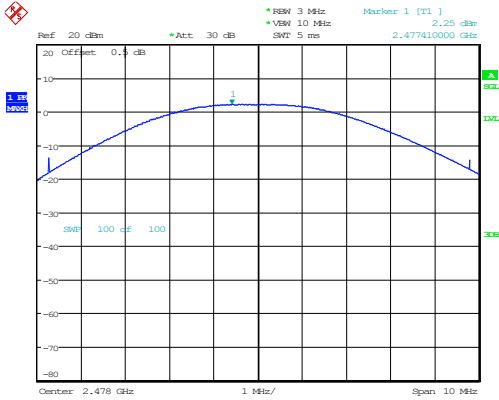
BLE_2M_Low_Channel



BLE_2M_Middle_Channel



BLE_2M_High_Channel



Power Spectral Density

BLE 1M

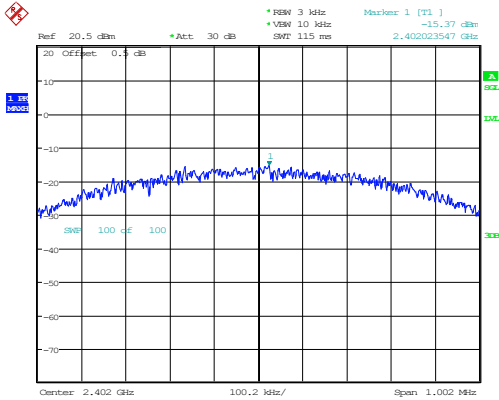
Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-15.37	8	Pass
Middle	-14.55	8	Pass
High	-14.80	8	Pass

BLE 2M

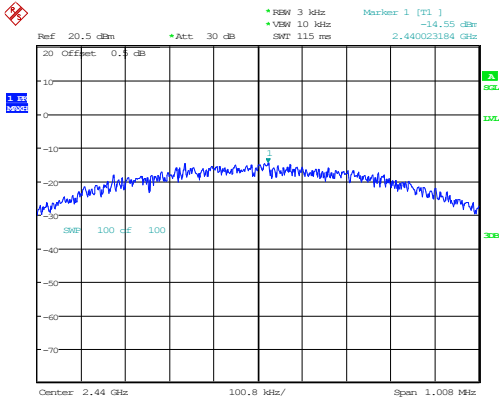
Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-17.52	8	Pass
Middle	-16.81	8	Pass
High	-17.02	8	Pass

BLE 1M

BLE_1M_Low_Channel



BLE_1M_Middle_Channel

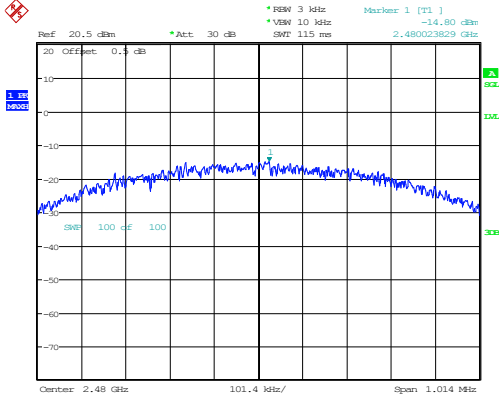


ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:12:19

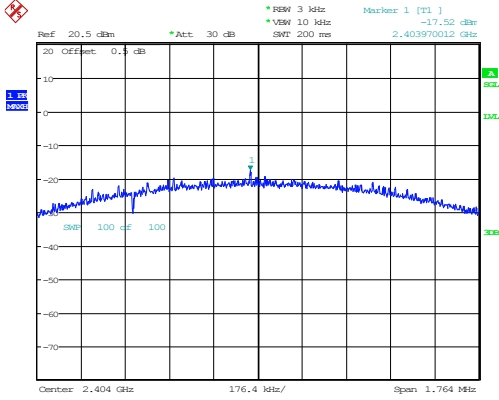
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:14:30

BLE 2M

BLE_1M_High_Channel



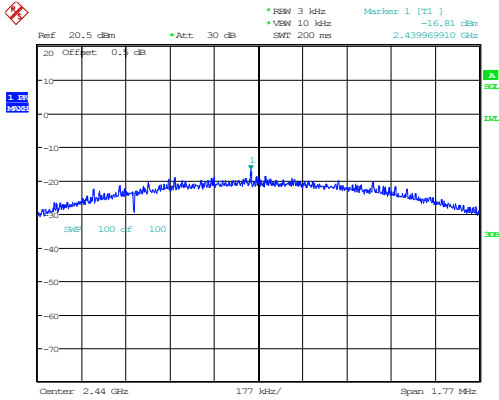
BLE_2M_Low_Channel



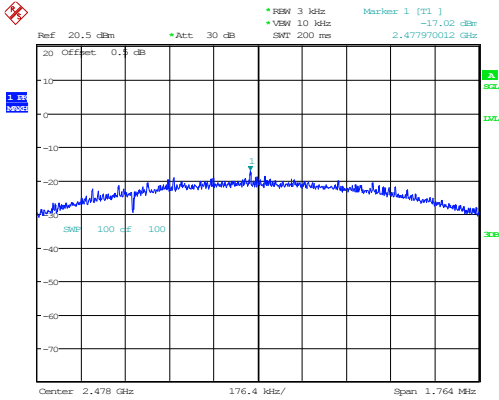
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:17:31

ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:36:35

BLE_2M_Middle_Channel



BLE_2M_High_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:37:21

ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:38:10

100 kHz Bandwidth of Frequency Band Edge

BLE 1M

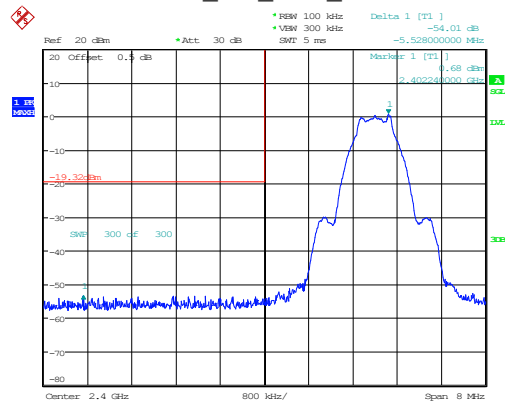
Channel	Result (dB)	Limit (dB)	Verdict
Low	54.01	20	Pass
High	54.81	20	Pass

BLE 2M

Channel	Result (dB)	Limit (dB)	Verdict
Low	40.40	20	Pass
High	43.91	20	Pass

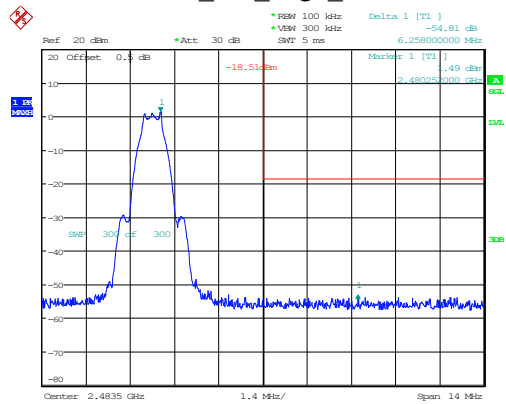
BLE 1M

BLE_1M_Low_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:10:26

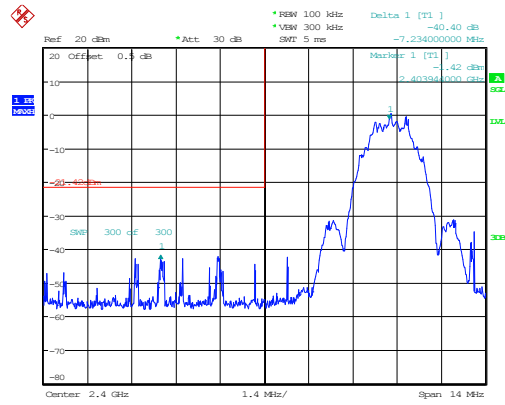
BLE_1M_High_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:15:19

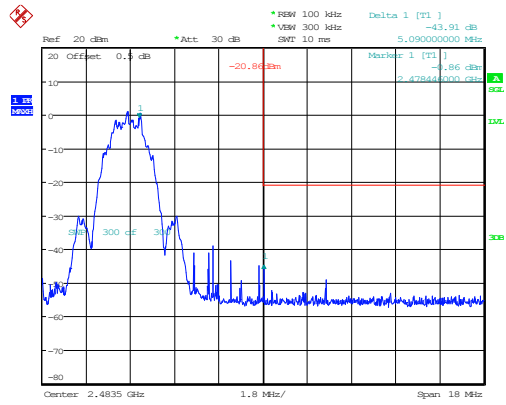
BLE 2M

BLE_2M_Low_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:35:40

BLE_2M_High_Channel



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 24.OCT.2024 20:33:43

Duty Cycle

BLE 1M

Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
Middle	2.148	2.501	85.89	0.66	466	0.500

BLE 2M

Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
Middle	1.091	1.880	58.03	2.36	917	1

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

