

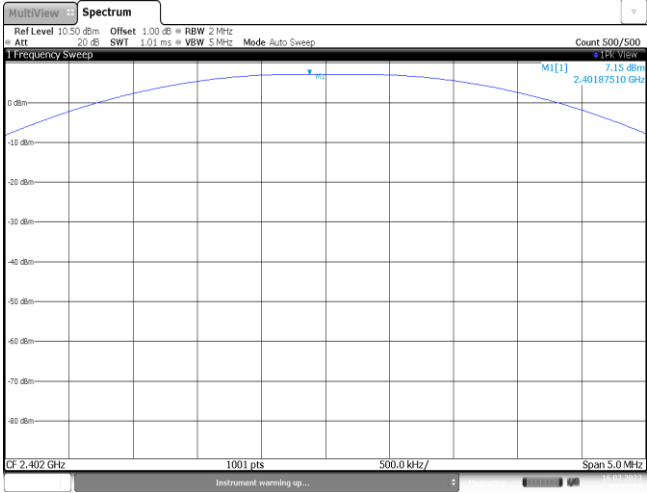
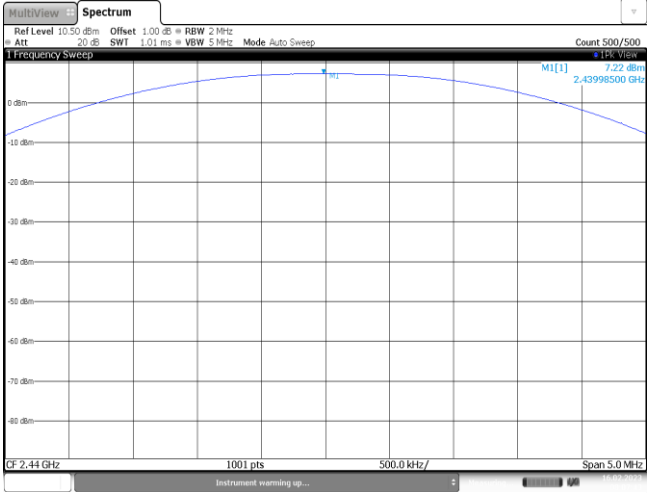
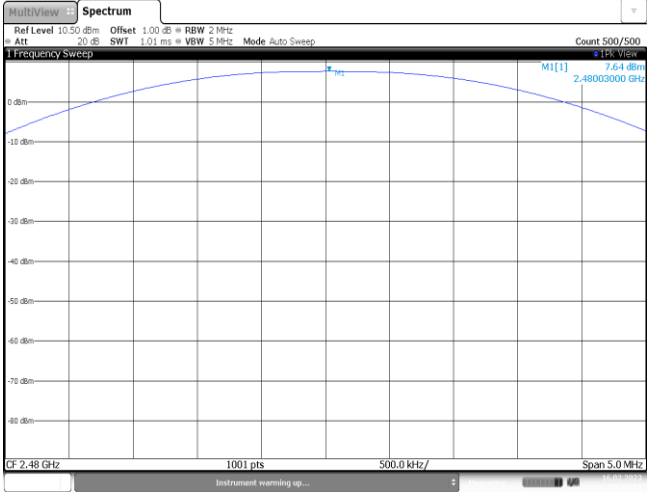
APPENDIX REPORT

Project No.	SHT2302000902EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT23020009001	Model No.	8A.04.9.024.8320
Start test date	2023-02-15	Finish date	2023-02-16
Temperature	25.7℃	Humidity	30%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zhu

Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

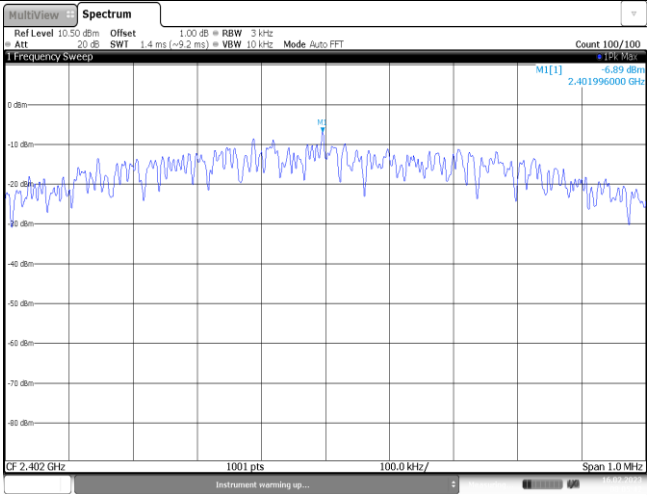
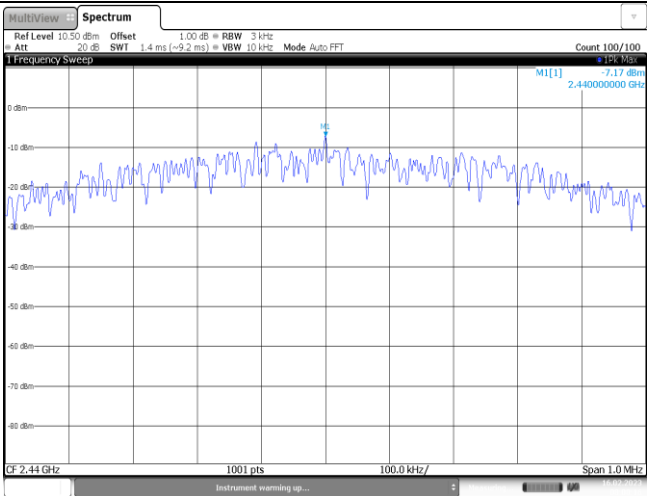
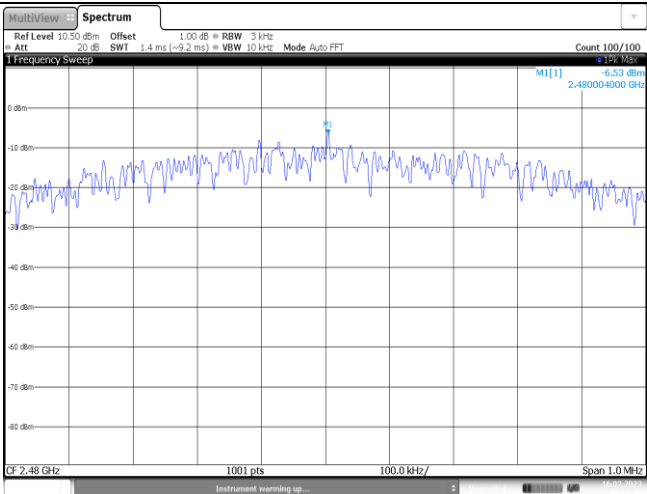
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	7.15	7.02	≤ 30.00	Pass
	19	7.22	7.21		
	39	7.64	7.60		

CH00	 Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 20 dB SWF 1.01 ms VBW 5 kHz Mode Auto Sweep Count 500/500 M1[1] 7.15 dBm 2.40187510 GHz CF 2.402 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Instrument warming up... Date:16.FEB.2023 08:05:08
CH19	 Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 20 dB SWF 1.01 ms VBW 5 kHz Mode Auto Sweep Count 500/500 M1[1] 7.22 dBm 2.43998500 GHz CF 2.44 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Instrument warming up... Date:16.FEB.2023 08:07:43
CH39	 Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 20 dB SWF 1.01 ms VBW 5 kHz Mode Auto Sweep Count 500/500 M1[1] 7.64 dBm 2.48003000 GHz CF 2.48 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Instrument warming up... Date:16.FEB.2023 08:11:00

Appendix B: Power Spectral Density

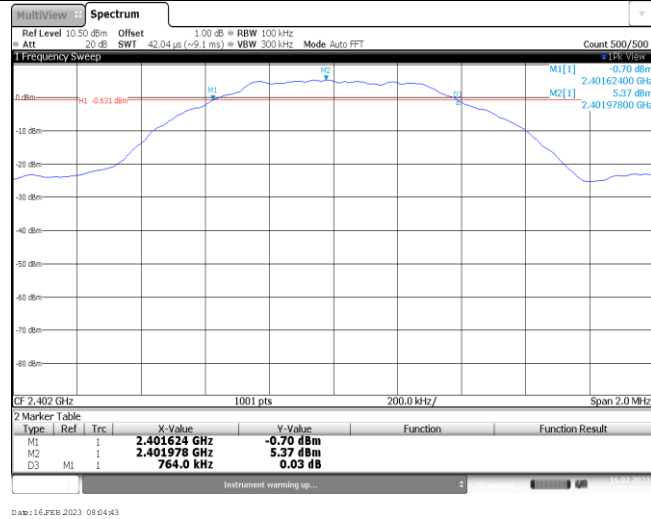
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-6.89	≤8.00	Pass
	19	-7.17		
	39	-6.53		

CH00	 MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 30 dB SWF 1.4 ms (-2.2 ms) VBW 10 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1[1] -6.89 dBm 2.401996000 GHz CF 2.402 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz Instrument warming up... Date:16.FEB.2023 08:05:42
CH19	 MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 30 dB SWF 1.4 ms (-2.2 ms) VBW 10 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1[1] -7.17 dBm 2.440000000 GHz CF 2.44 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz Instrument warming up... Date:16.FEB.2023 08:08:16
CH39	 MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att 30 dB SWF 1.4 ms (-2.2 ms) VBW 10 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep M1[1] -6.53 dBm 2.480004000 GHz CF 2.48 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz Instrument warming up... Date:16.FEB.2023 08:11:06

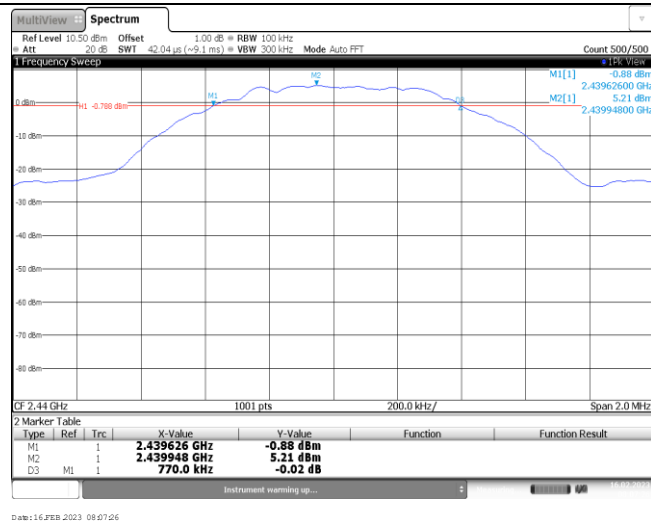
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	764.00	≥500	Pass
	19	770.00		
	39	772.00		

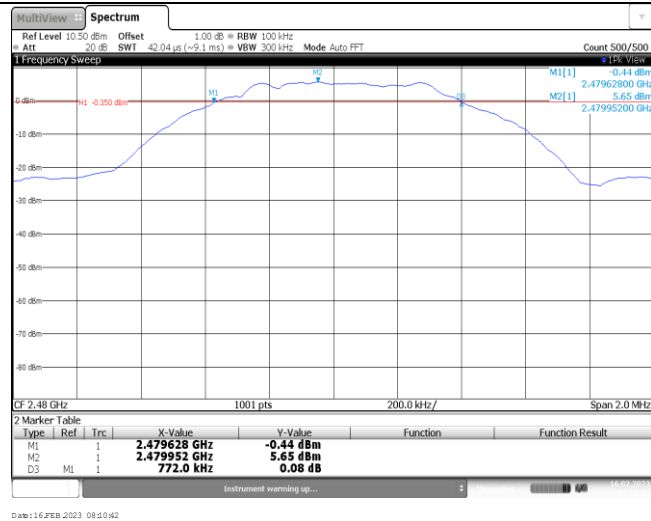
CH00



CH19



CH39



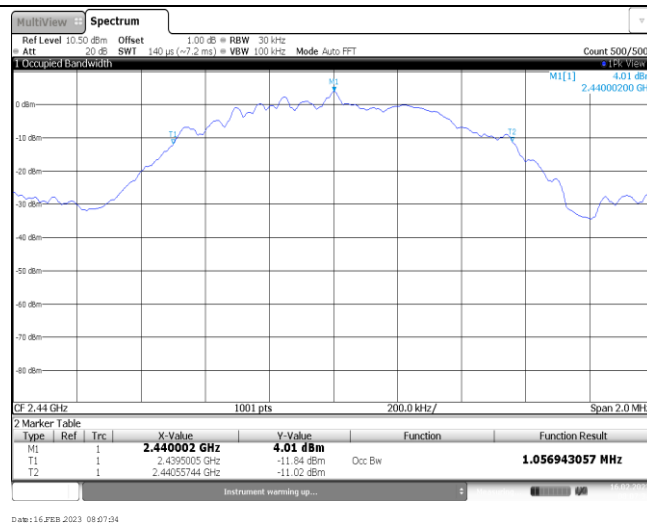
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.06	-	Pass
	19	1.06		
	39	1.05		

CH00



CH19

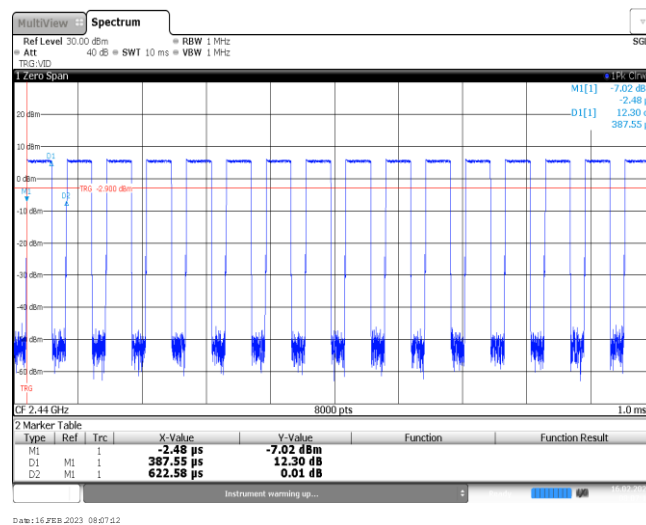


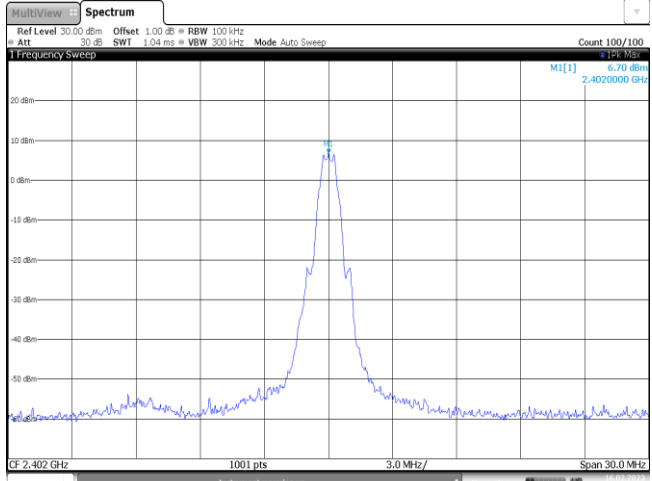
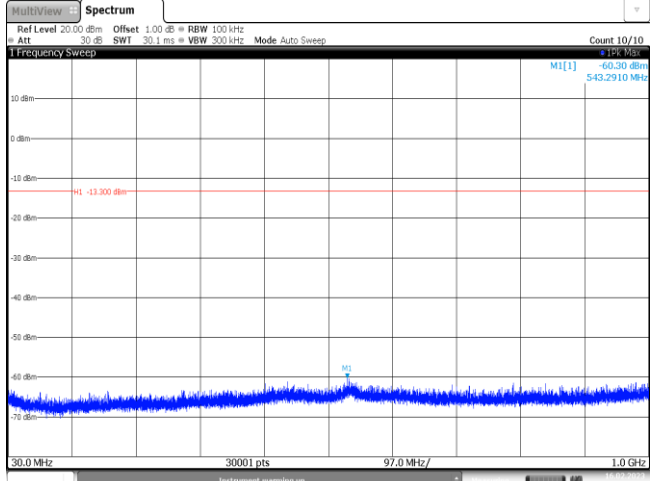
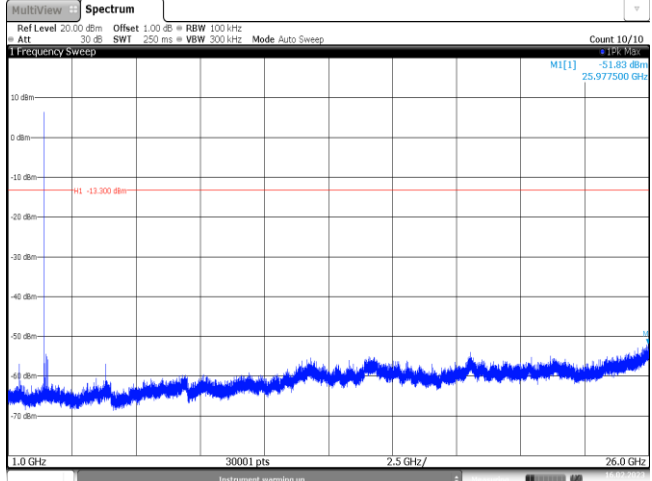
CH39

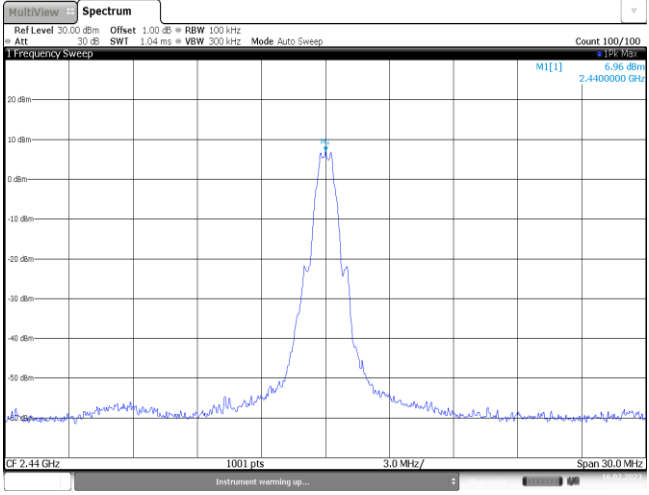
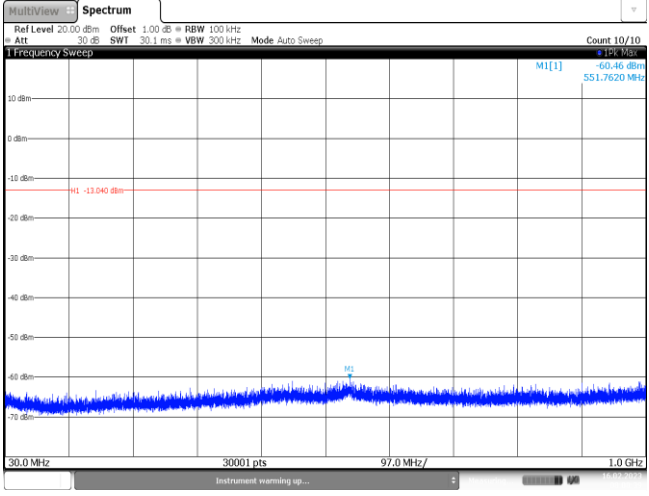
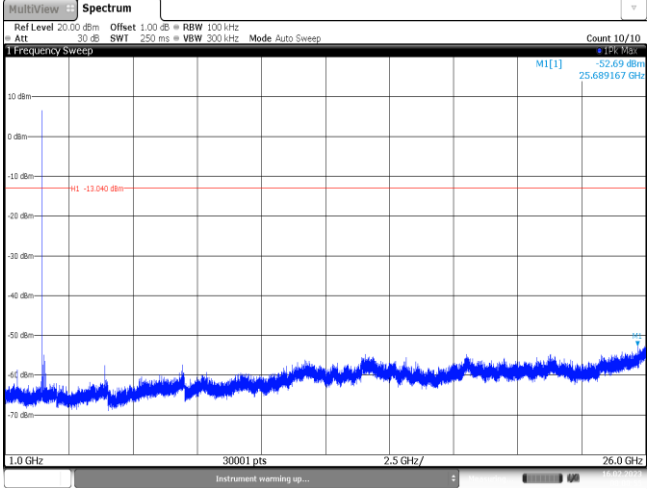


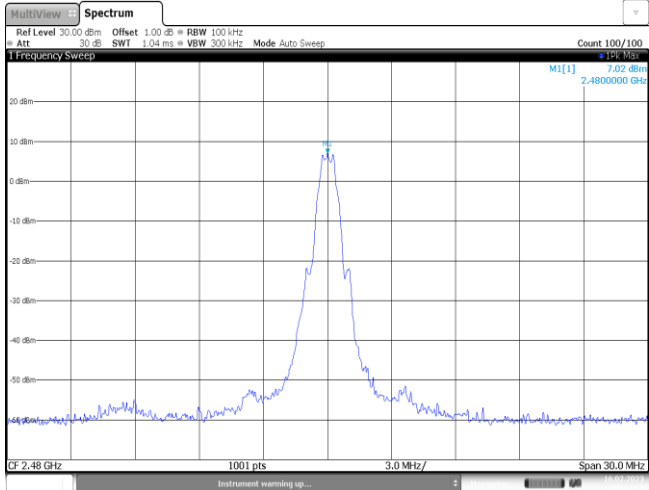
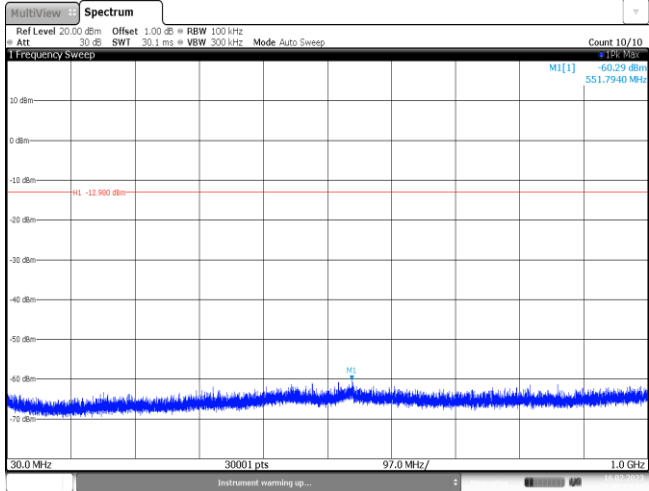
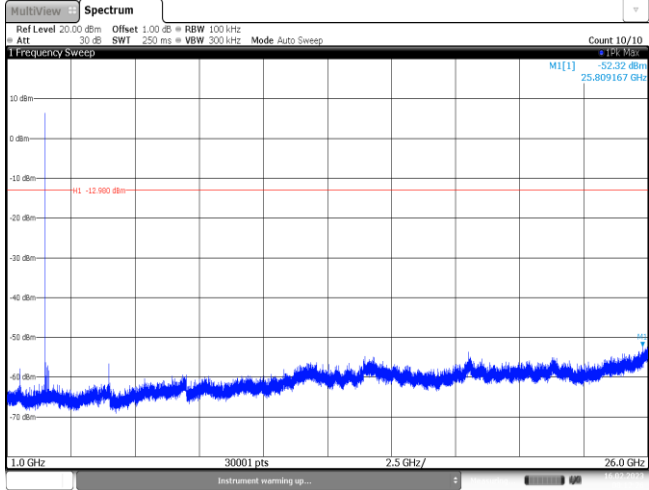
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.39	0.62	62.9%	2.6



Test Item:	SE
CH00 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 6.70 dBm 2.4020000 GHz 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Instrument warming up... Date:16.FEB.2023 08:04:01
CH00 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.30 dBm 543.2910 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Instrument warming up... Date:16.FEB.2023 08:06:17
CH00 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -51.83 dBm 25.977500 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Instrument warming up... Date:16.FEB.2023 08:06:23

CH19 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 6.96 dBm 2.440000 GHz CF 2.44 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Instrument warming up... Date: 16 FEB 2023 08:08:23
CH19 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.46 dBm 551.7620 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Instrument warming up... Date: 16 FEB 2023 08:08:28
CH19 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -52.69 dBm 25.689167 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Instrument warming up... Date: 16 FEB 2023 08:08:54

CH39 Reference level	 Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 7.02 dBm 2.480000 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Instrument warming up... Date: 16 FEB 2023 08:11:53
CH39 30MHz~1000MHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -60.29 dBm 551.7940 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Instrument warming up... Date: 16 FEB 2023 08:12:09
CH39 1GHz~26GHz	 Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 MI[1] -52.32 dBm 25.809167 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Instrument warming up... Date: 16 FEB 2023 08:12:25

-----End of Report-----