

APPENDIX REPORT

Project No.	SHT2307037601EW	Radio Specification	ZIGBEE
Test sample No.	YPHT23070376001	Model No.	E18-MS1PA2-IPX
Start test date	2023/07/21	Finish date	2023/07/21
Temperature	23.8℃	Humidity	62%
Test Engineer	kongyongshu	Auditor	Xiaodong Zheo

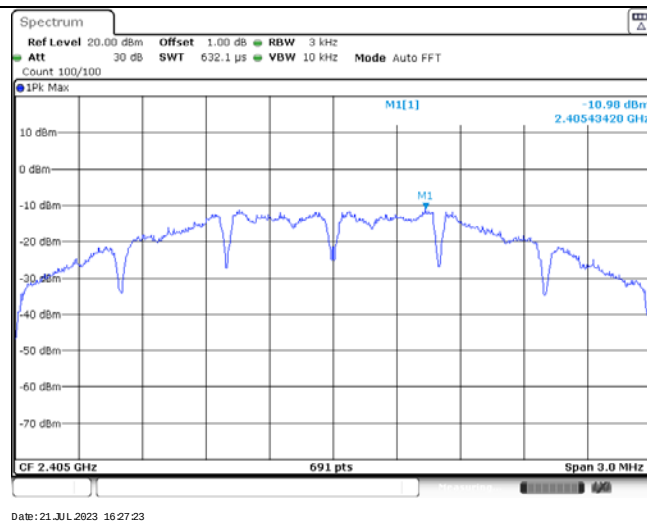
Appendix clause	Test item	Result
A	Peak Output Power	Pass
B	Power Spectral Density	Pass
C	6 dB Bandwidth	Pass
D	99% Occupied Bandwidth	Pass
E	Duty cycle	Pass
F	Band edge and Spurious Emissions (conducted)	Pass

Appendix A: Peak Output Power

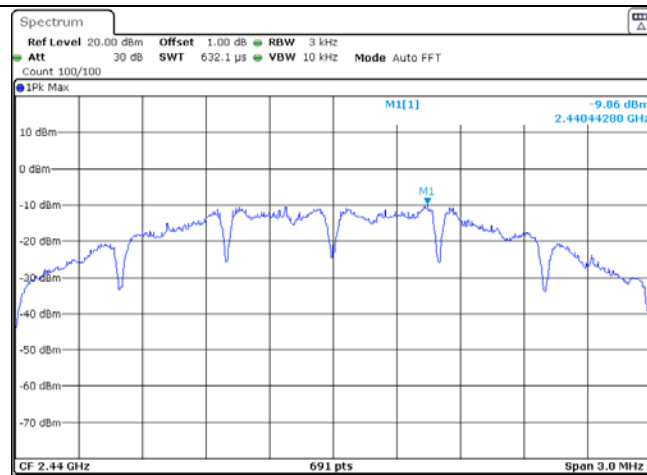
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
ZIGBEE	00	4.06	4.00	≤30.00	Pass
	07	4.74	4.69		
	15	4.65	4.61		

Appendix B: Power Spectral Density

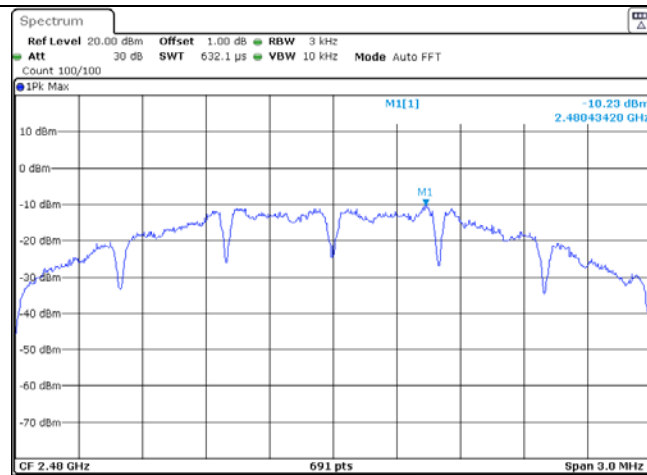
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
ZIGBEE	00	-10.98	≤8.00	Pass
	07	-9.86		
	15	-10.23		



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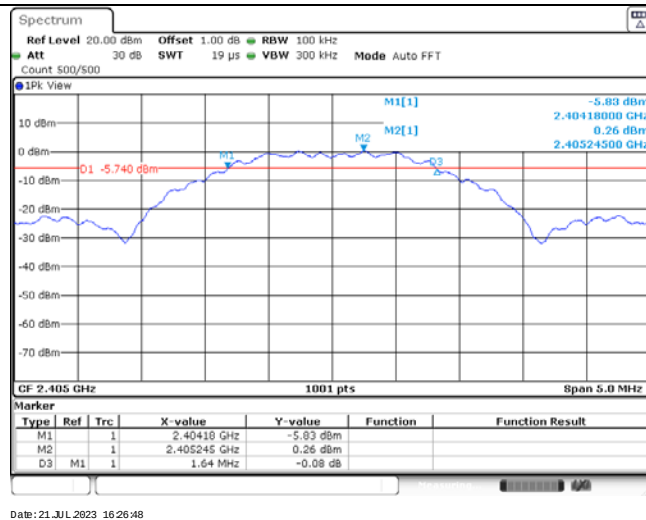


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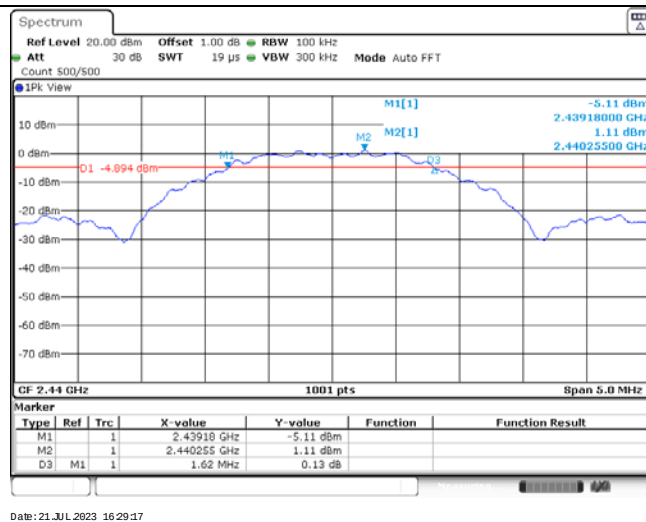
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
ZIGBEE	00	1640.00	≥500	Pass
	07	1620.00		
	15	1615.00		

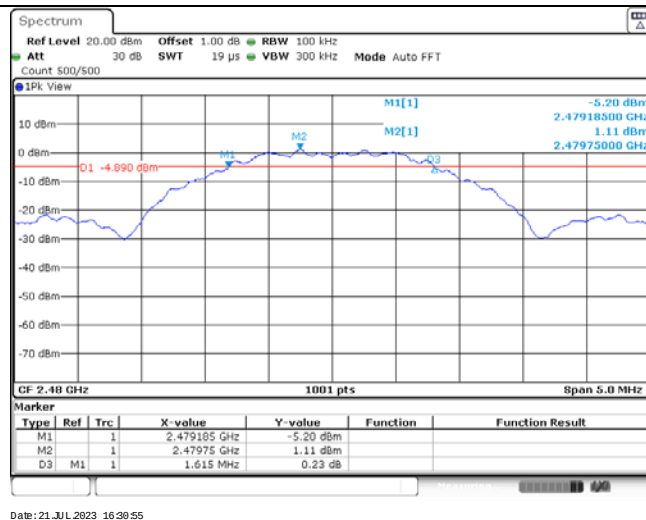
CH00



CH07



CH15



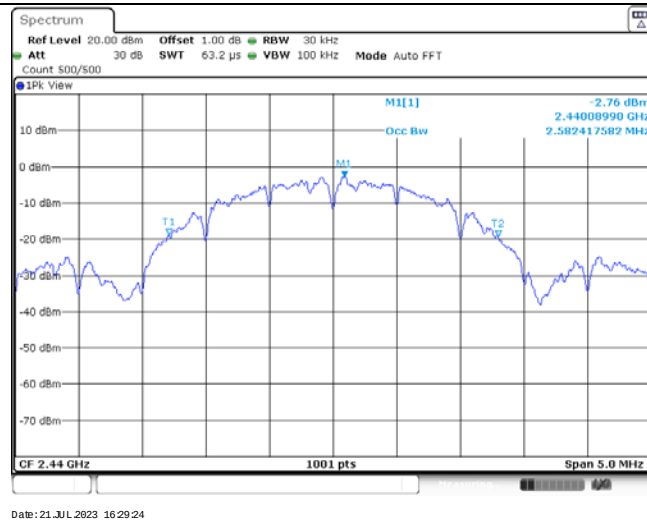
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
ZIGBEE	00	2.58	-	Pass
	07	2.58		
	15	2.59		

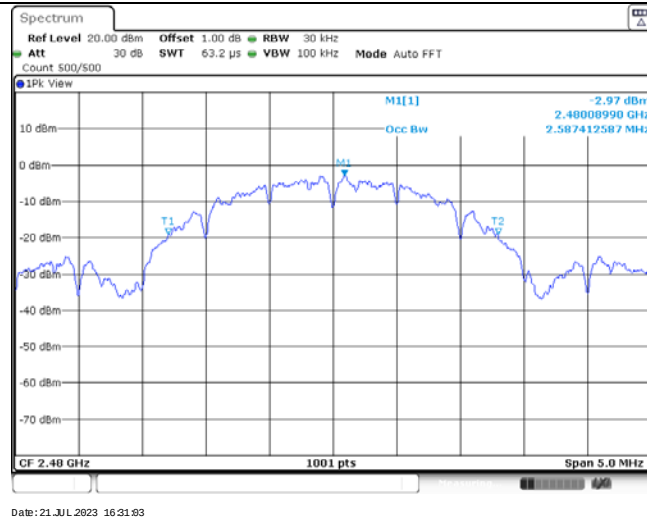
CH00



CH07

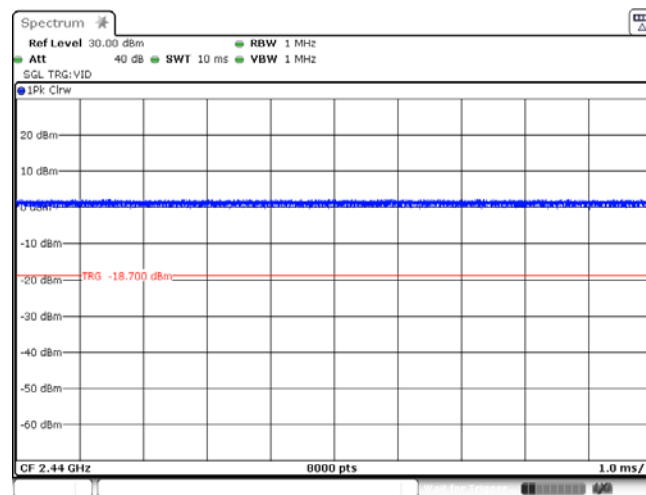


CH15



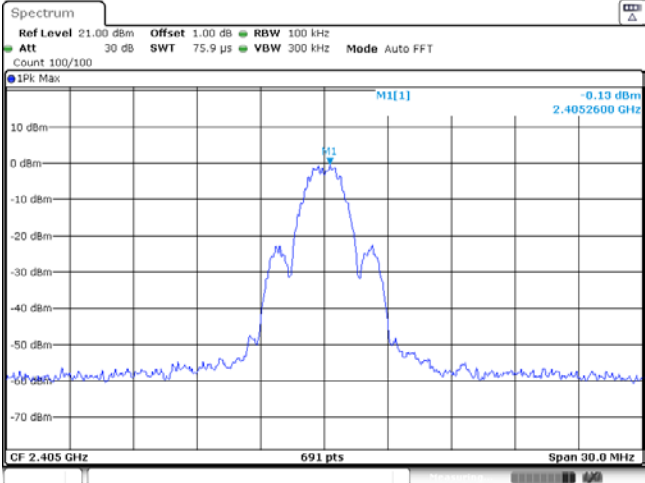
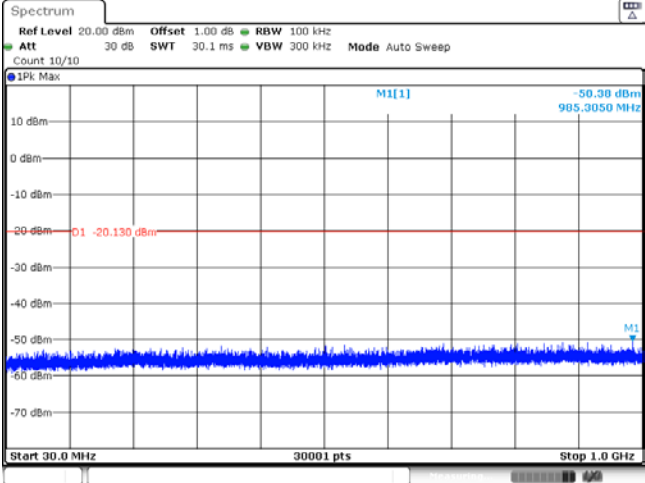
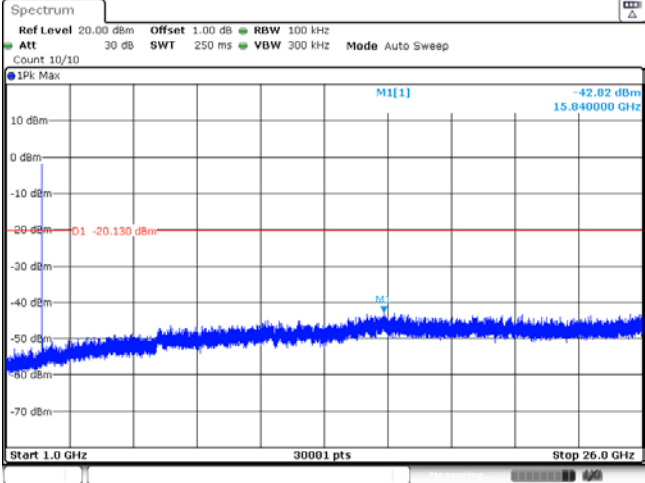
Appendix E: Duty cycle

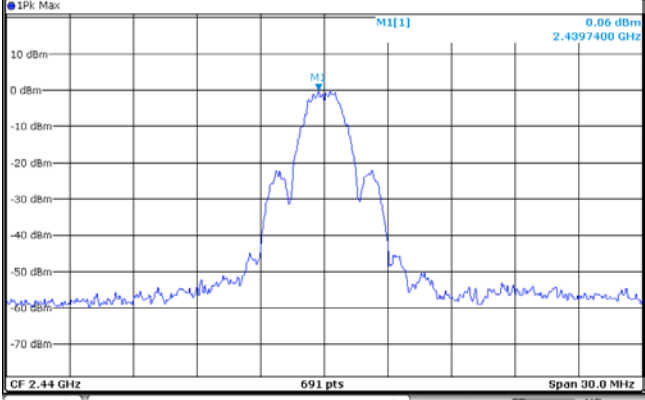
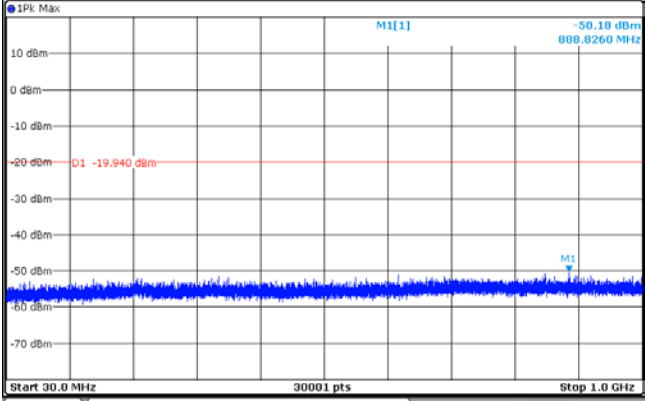
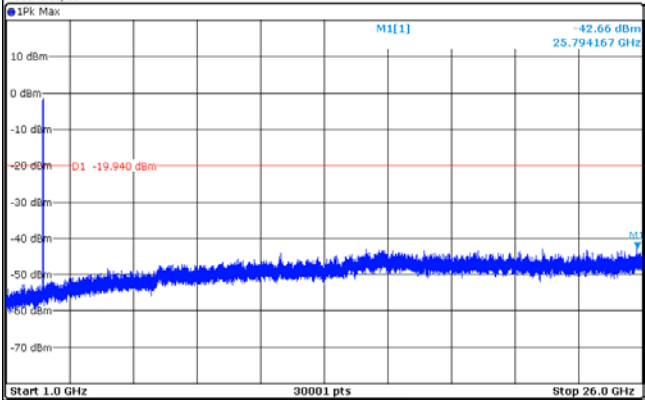
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	1.00	1.00	100%	1



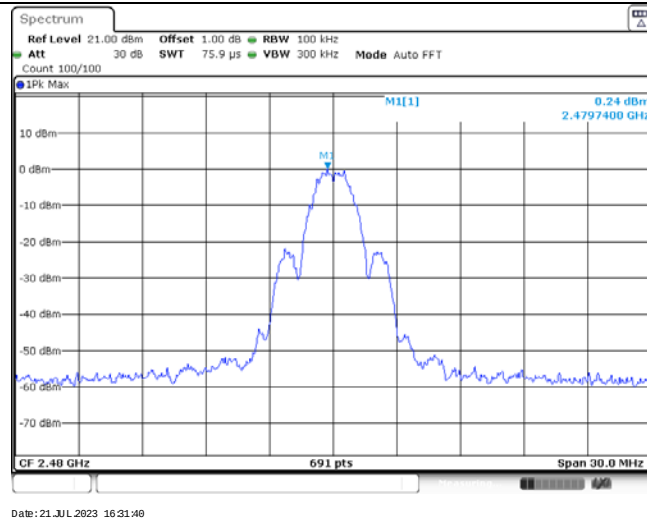
Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge
CH00	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max

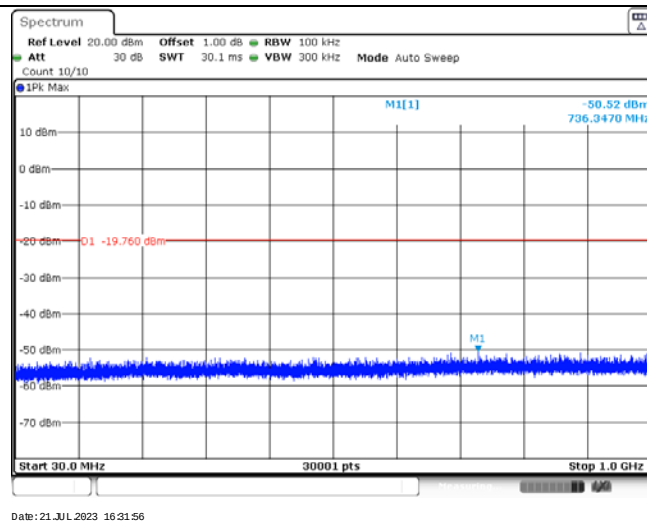
Test Item:	SE
CH00 Reference level	 Date: 21.JUL.2023 16:27:39
CH00 30MHz~1000MHz	 Date: 21.JUL.2023 16:27:54
CH00 1GHz~26GHz	 Date: 21.JUL.2023 16:28:10

CH07 Reference level	Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 IPk Max M1[1] 0.06 dBm 2.4397400 GHz  CF 2.44 GHz 691 pts Span 30.0 MHz Date: 21 JUL 2023 16:29:52
CH07 30MHz~1000MHz	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -50.18 dBm 888.8260 MHz  Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 21 JUL 2023 16:30:07
CH07 1GHz~26GHz	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 IPk Max M1[1] -42.66 dBm 25.794167 GHz  Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 21 JUL 2023 16:30:23

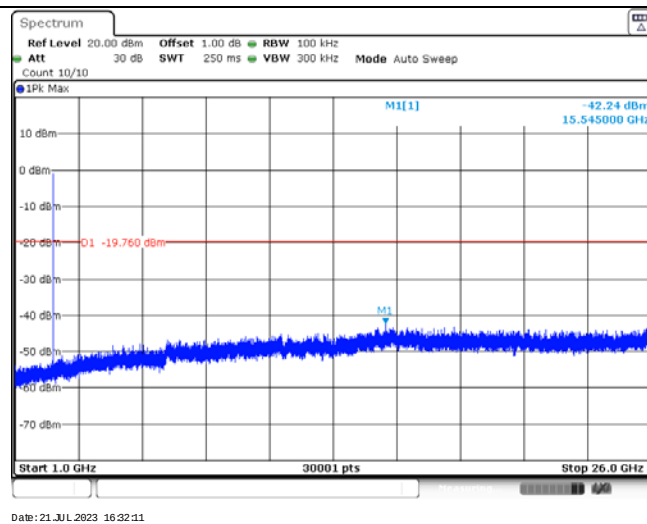
CH15
Reference level



CH15
30MHz~1000MHz



CH15
1GHz~26GHz



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