

APPENDIX REPORT

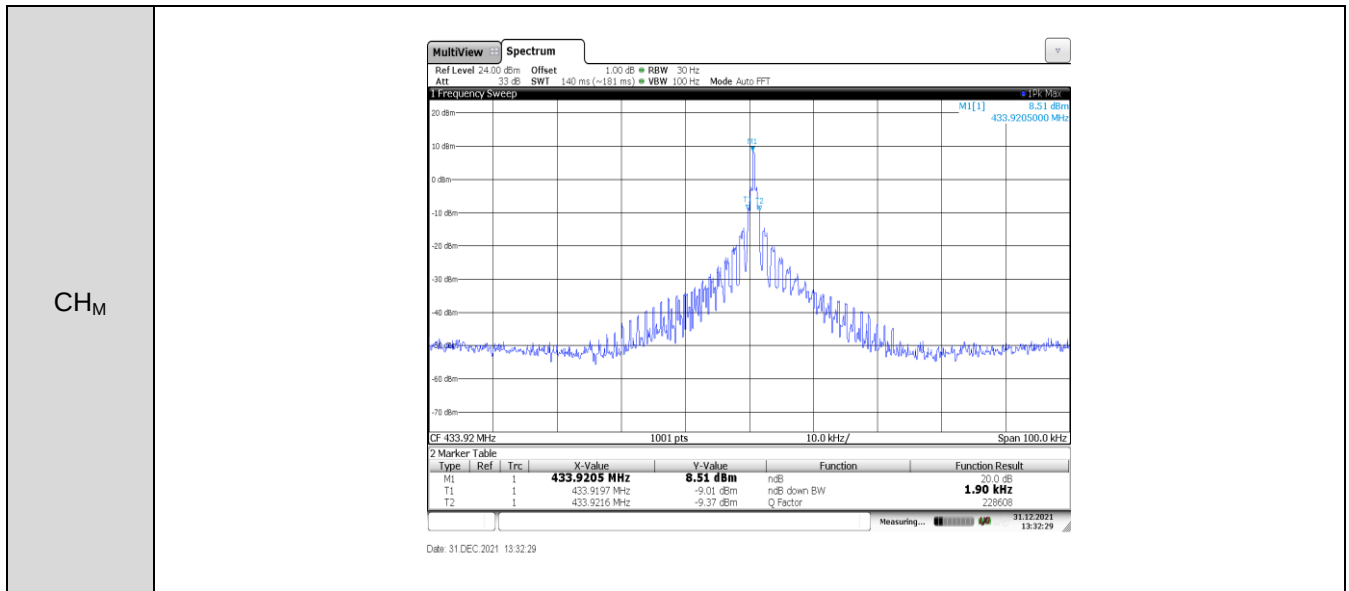
Project No.	SHT2112073501EW		
Test sample No.	YPHT21120735002	Model No.	PD002
Start test date	2021-12-31	Finish date	2021-12-31
Temperature	23.6℃	Humidity	43%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhao

Appendix clause	Test item	Result
A	20dB Bandwidth	PASS
B	99% Occupied Bandwidth	PASS
C	Deactivation Time	PASS
D	Duty Cycle Corrected Factor	PASS

Appendix A: 20dB bandwidth

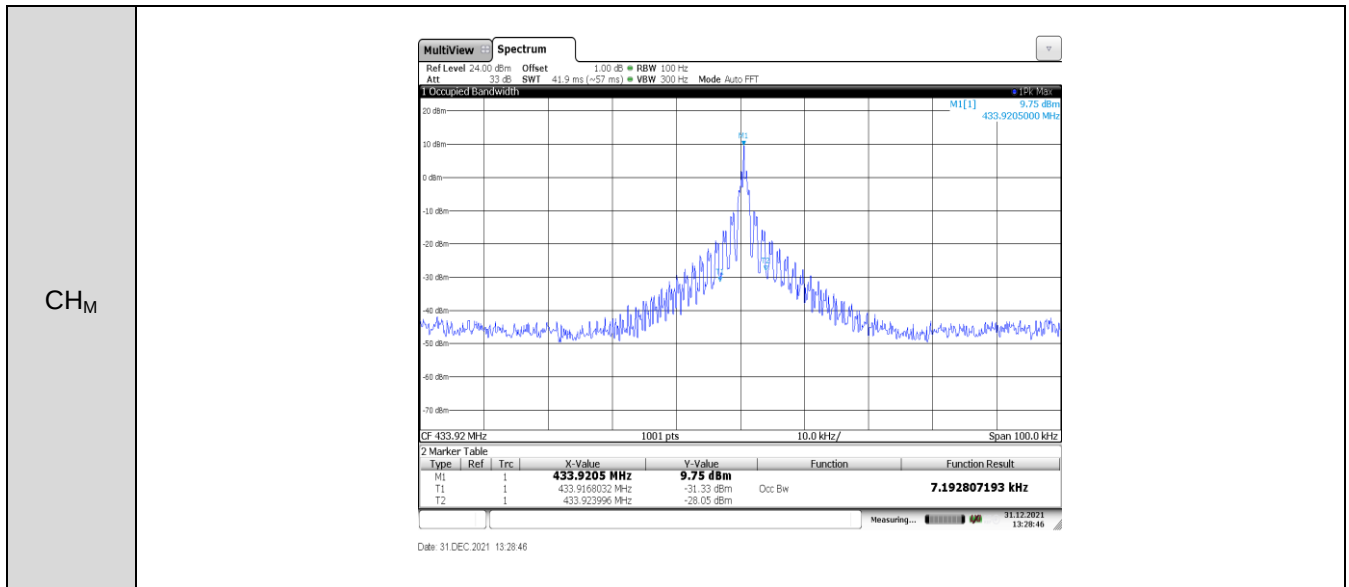
Test Channel	20dB Bandwidth (kHz)	Limit (kHz)	Result
CH _M	1.90	1084.80	Pass

NOTE:Limit=0.25%*Center Frequency=1084.80 kHz



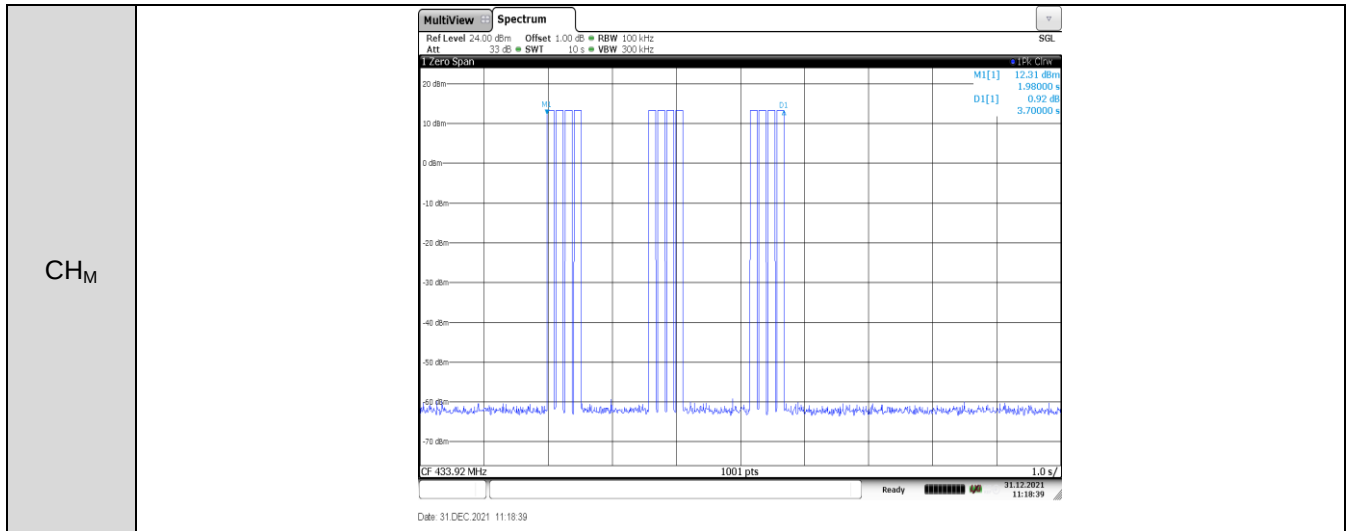
Appendix B: 99% Occupied Bandwidth

Test Channel	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
CH _M	7.19	-	Pass



Appendix C: Deactivation Time

Transmission time (second)	Limit (second)	Result
3.70	5	Pass

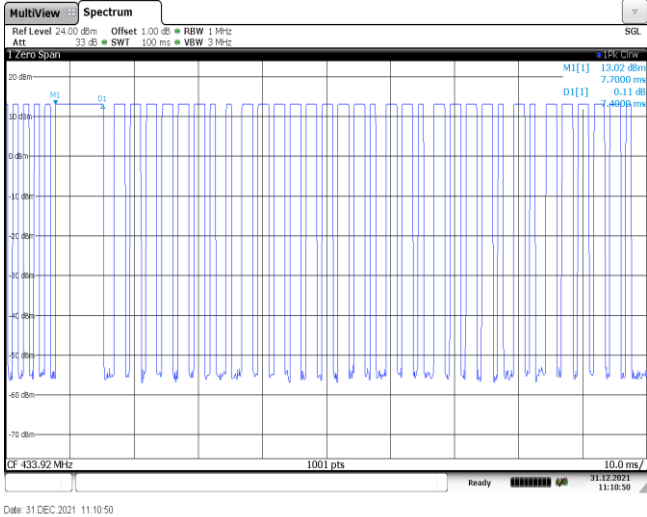
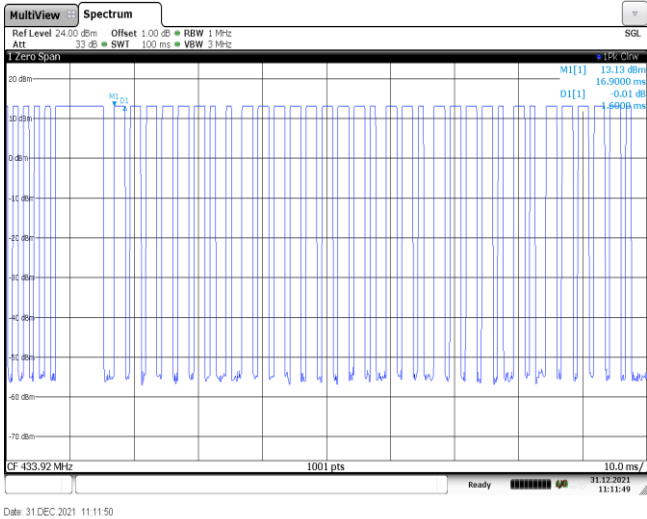
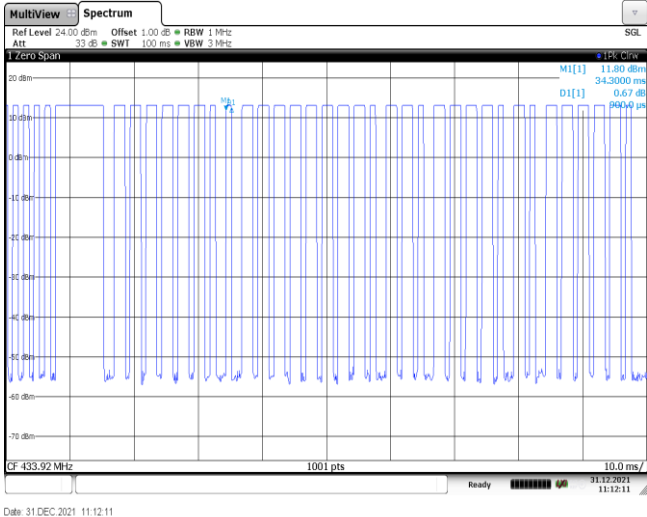


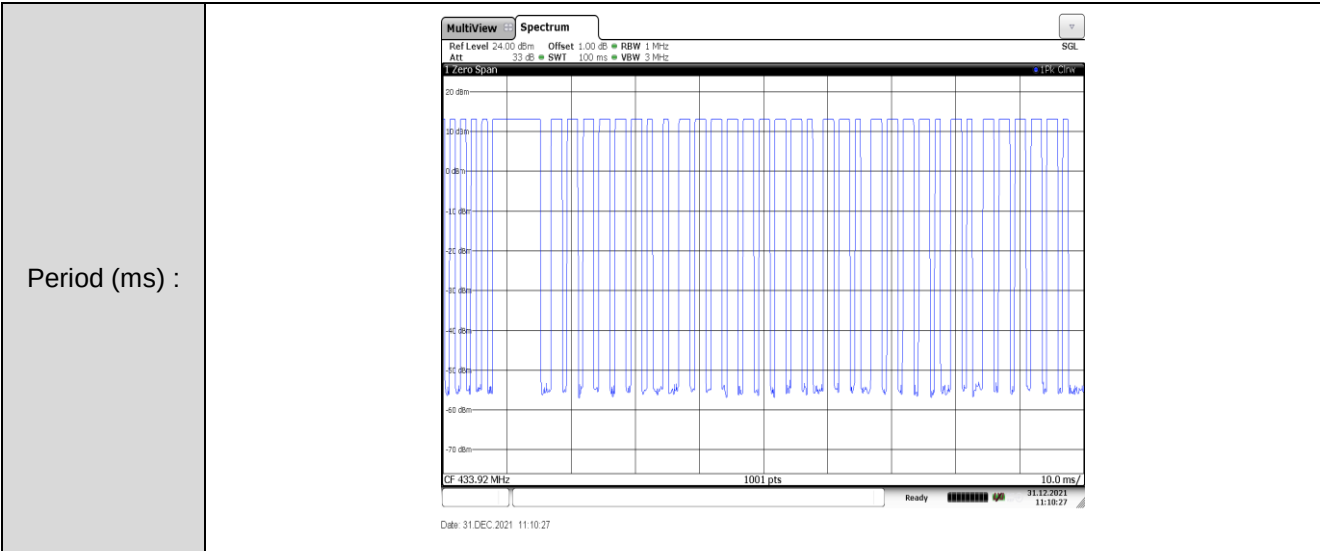
Appendix D: Duty Cycle Corrected Factor

T _{ON1} (ms) :	7.40
T _{ON1} number	1
T _{ON2} (ms) :	1.60
T _{ON2} number	26
T _{ON3} (ms) :	0.90
T _{ON3} number	11
Period (ms) :	100
Duty Cycle :	$= (7.40 \times 1 + 1.60 \times 26 + 0.90 \times 11) / 100 = 0.589$
Duty Cycle Corrected Factor:	$= 20 \times \log(0.589) = -4.598$

Note:

- 1) Duty cycle= $T_{on1} \times T_{ON1 \text{ number}} + T_{on2} \times T_{ON2 \text{ number}} + T_{on3} \times T_{ON3 \text{ number}} / T_{period}$
- 2) Duty Cycle Corrected Factor/DCCF= $20 \times \log (\text{Duty Cycle})$

T_{ON1} (ms) :	 The spectrum plot shows a periodic signal with a peak level of 13.02 dBm and a duration of 7.7000 ms. The frequency is 433.92 MHz. The plot includes a grid and a scale bar indicating 10.0 ms. <table border="1"><thead><tr><th>Parameter</th><th>Value</th></tr></thead><tbody><tr><td>Ref Level</td><td>24.00 dBm</td></tr><tr><td>Offset</td><td>1.00 dB</td></tr><tr><td>RBW</td><td>1 MHz</td></tr><tr><td>Att</td><td>33 dB</td></tr><tr><td>SWT</td><td>100 ms</td></tr><tr><td>VBW</td><td>3 MHz</td></tr><tr><td>M1[1]</td><td>13.02 dBm</td></tr><tr><td>D1[1]</td><td>0.11 dB</td></tr><tr><td>Duration</td><td>7.7000 ms</td></tr><tr><td>CF</td><td>433.92 MHz</td></tr><tr><td>1001 pts</td><td></td></tr><tr><td>10.0 ms</td><td></td></tr><tr><td>Date</td><td>31 DEC 2021 11:10:50</td></tr></tbody></table>	Parameter	Value	Ref Level	24.00 dBm	Offset	1.00 dB	RBW	1 MHz	Att	33 dB	SWT	100 ms	VBW	3 MHz	M1[1]	13.02 dBm	D1[1]	0.11 dB	Duration	7.7000 ms	CF	433.92 MHz	1001 pts		10.0 ms		Date	31 DEC 2021 11:10:50
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T_{ON2} (ms) :	 The spectrum plot shows a periodic signal with a peak level of 13.13 dBm and a duration of 16.9000 ms. The frequency is 433.92 MHz. The plot includes a grid and a scale bar indicating 10.0 ms. <table border="1"><thead><tr><th>Parameter</th><th>Value</th></tr></thead><tbody><tr><td>Ref Level</td><td>24.00 dBm</td></tr><tr><td>Offset</td><td>1.00 dB</td></tr><tr><td>RBW</td><td>1 MHz</td></tr><tr><td>Att</td><td>33 dB</td></tr><tr><td>SWT</td><td>100 ms</td></tr><tr><td>VBW</td><td>3 MHz</td></tr><tr><td>M1[1]</td><td>13.13 dBm</td></tr><tr><td>D1[1]</td><td>0.01 dB</td></tr><tr><td>Duration</td><td>16.9000 ms</td></tr><tr><td>CF</td><td>433.92 MHz</td></tr><tr><td>1001 pts</td><td></td></tr><tr><td>10.0 ms</td><td></td></tr><tr><td>Date</td><td>31 DEC 2021 11:11:50</td></tr></tbody></table>	Parameter	Value	Ref Level	24.00 dBm	Offset	1.00 dB	RBW	1 MHz	Att	33 dB	SWT	100 ms	VBW	3 MHz	M1[1]	13.13 dBm	D1[1]	0.01 dB	Duration	16.9000 ms	CF	433.92 MHz	1001 pts		10.0 ms		Date	31 DEC 2021 11:11:50
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T_{ON3} (ms) :	 The spectrum plot shows a periodic signal with a peak level of 11.80 dBm and a duration of 34.3000 ms. The frequency is 433.92 MHz. The plot includes a grid and a scale bar indicating 10.0 ms. <table border="1"><thead><tr><th>Parameter</th><th>Value</th></tr></thead><tbody><tr><td>Ref Level</td><td>24.00 dBm</td></tr><tr><td>Offset</td><td>1.00 dB</td></tr><tr><td>RBW</td><td>1 MHz</td></tr><tr><td>Att</td><td>33 dB</td></tr><tr><td>SWT</td><td>100 ms</td></tr><tr><td>VBW</td><td>3 MHz</td></tr><tr><td>M1[1]</td><td>11.80 dBm</td></tr><tr><td>D1[1]</td><td>0.67 dB</td></tr><tr><td>Duration</td><td>34.3000 ms</td></tr><tr><td>CF</td><td>433.92 MHz</td></tr><tr><td>1001 pts</td><td></td></tr><tr><td>10.0 ms</td><td></td></tr><tr><td>Date</td><td>31 DEC 2021 11:12:11</td></tr></tbody></table>	Parameter	Value	Ref Level	24.00 dBm	Offset	1.00 dB	RBW	1 MHz	Att	33 dB	SWT	100 ms	VBW	3 MHz	M1[1]	11.80 dBm	D1[1]	0.67 dB	Duration	34.3000 ms	CF	433.92 MHz	1001 pts		10.0 ms		Date	31 DEC 2021 11:12:11
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