

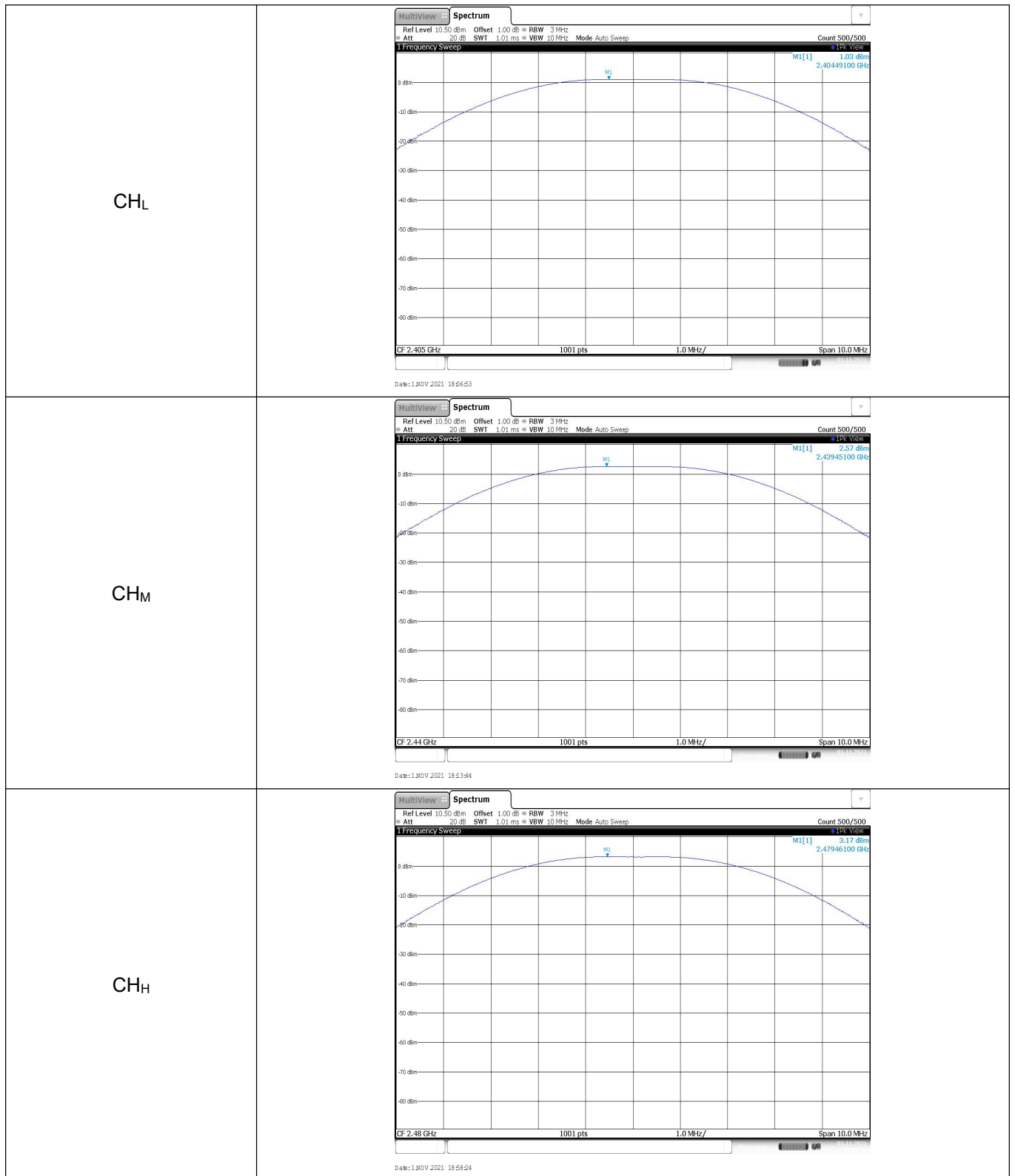
APPENDIX REPORT

Project No.	SHT2108113003EW	Radio Specification	Zigbee
Test sample No.	YPHT21081130007	Model No.	LW-Z5-MDQ-PR-Z
Start test date	2021-11-01	Finish date	2021-11-01
Temperature	25.3℃	Humidity	64%
Test Engineer	Weiyang Xiang	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

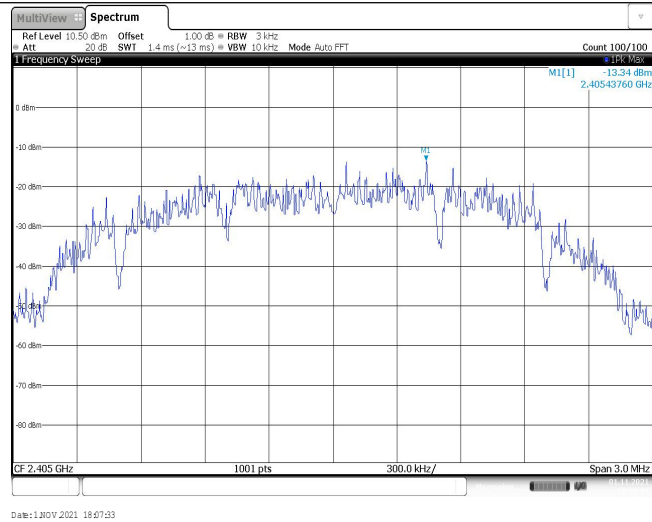
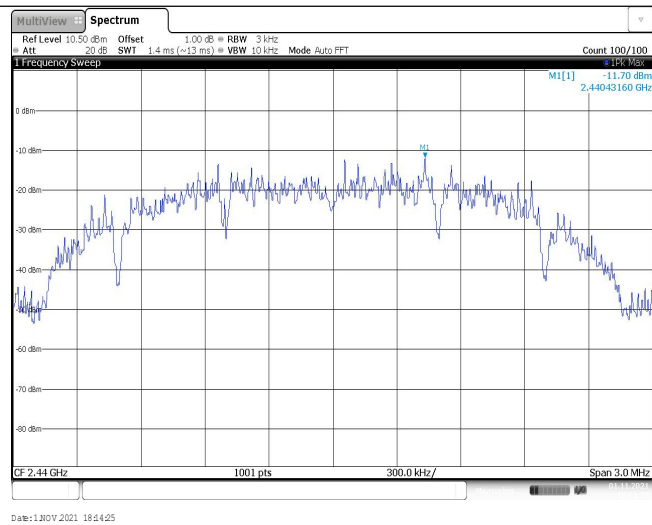
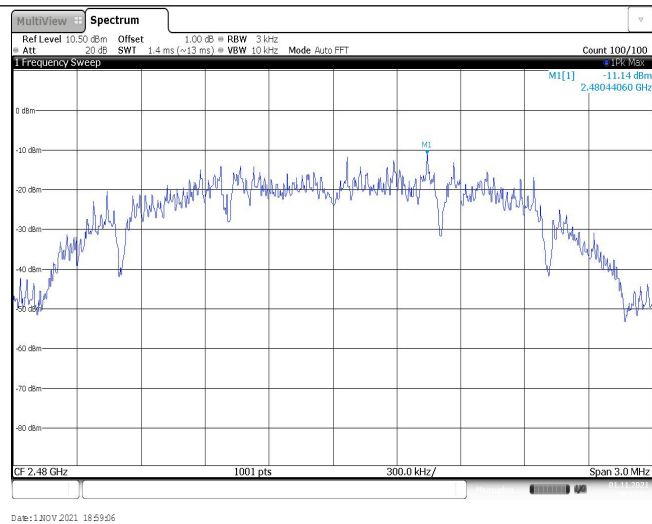
Appendix A: Peak Output Power

Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
CH _L	1.03	1.01	≤ 30.00	Pass
CH _M	2.57	2.54		
CH _H	3.17	3.15		



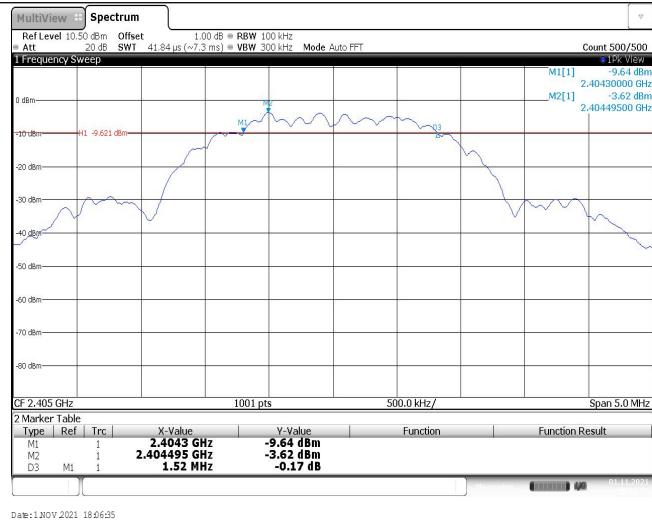
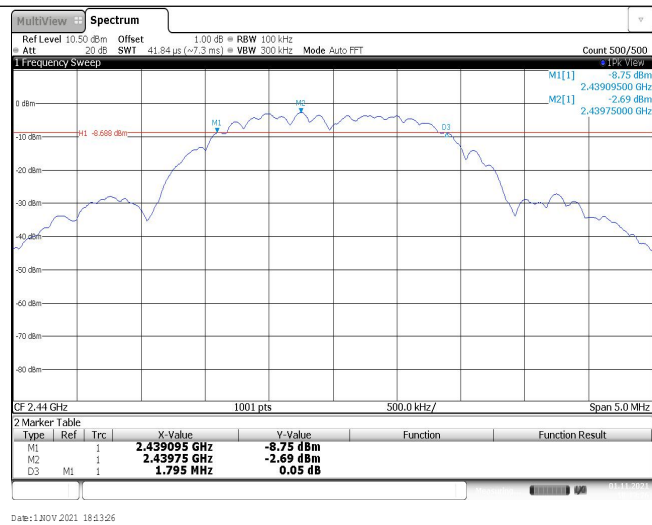
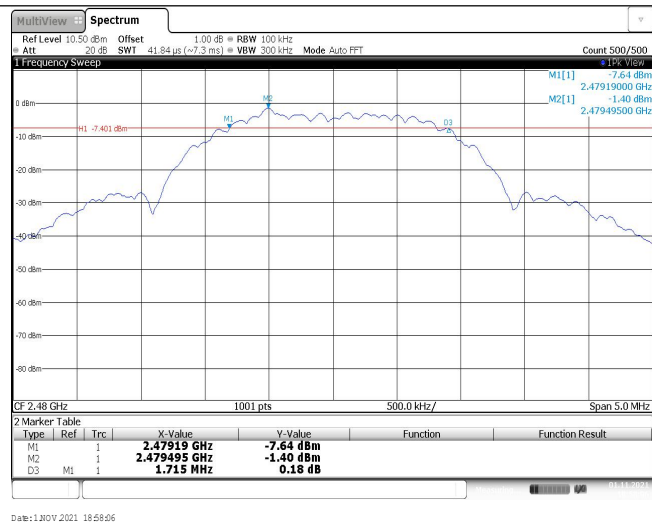
Appendix B: Power Spectral Density

Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
CH _L	-13.34	≤8.00	Pass
CH _M	-11.70		
CH _H	-11.14		

CH_LCH_MCH_H

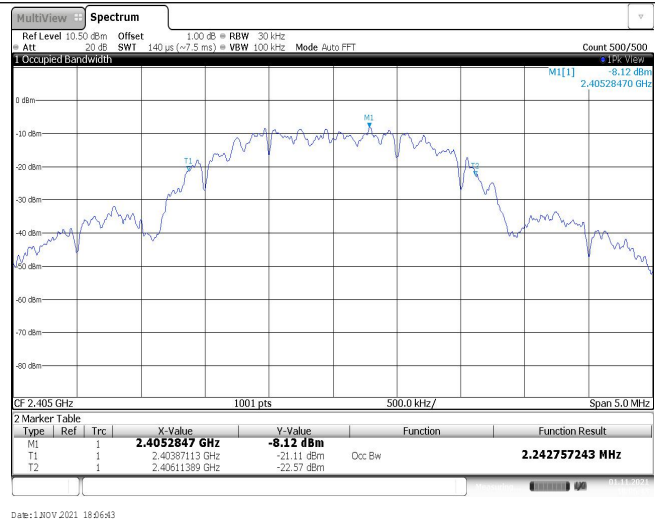
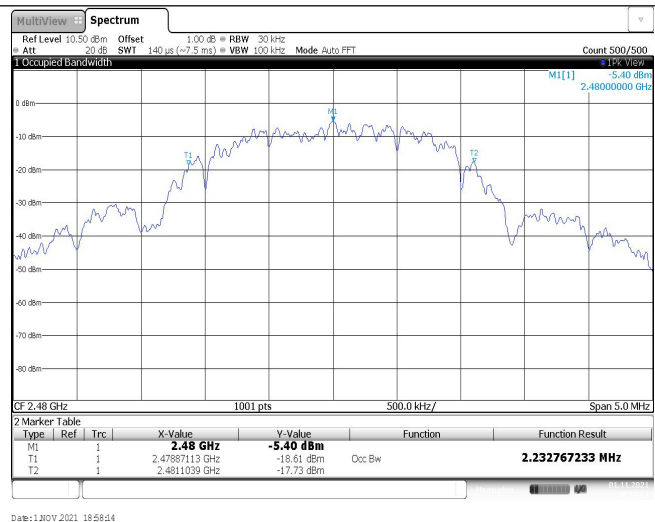
Appendix C: 6dB bandwidth

Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
CH _L	1520.00	≥500	Pass
CH _M	1795.00		
CH _H	1715.00		

CH_LCH_MCH_H

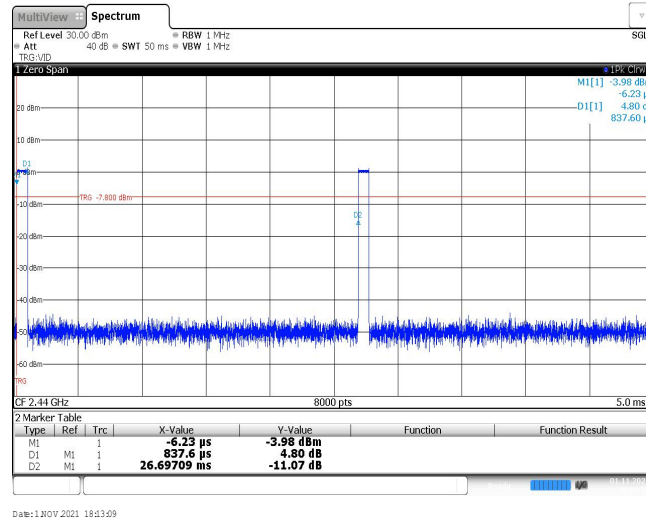
Appendix D: 99% Occupied Bandwidth

Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
CH _L	2.24	-	Pass
CH _M	2.23		
CH _H	2.23		

CH_LCH_MCH_H

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	0.84	26.70	3.1%	1.2



CH_L

CH_H

Band edge

MultiView Spectrum

Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz
Att 20 dB SWI 1.07 ms VBW 300 kHz Mode Auto Sweep Count 300/300

1 Frequency Sweep

2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		2.405207 GHz	-2.61 dBm		
M2	1		2.4 GHz	-54.76 dBm		
M3	1		2.39 GHz	-72.26 dBm		
M4	1		2.31 GHz	-74.68 dBm		
M5	1		2.399725 GHz	-52.82 dBm		

2.31 GHz 1001 pts 9.7 MHz/ 2.407 GHz

Date: 130V 2021 1807:43

MultiView Spectrum

Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz
Att 20 dB SWI 1.02 ms VBW 300 kHz Mode Auto Sweep Count 100/100

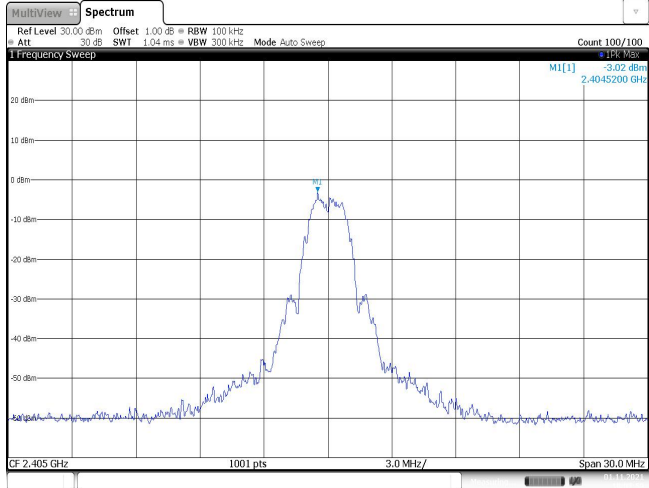
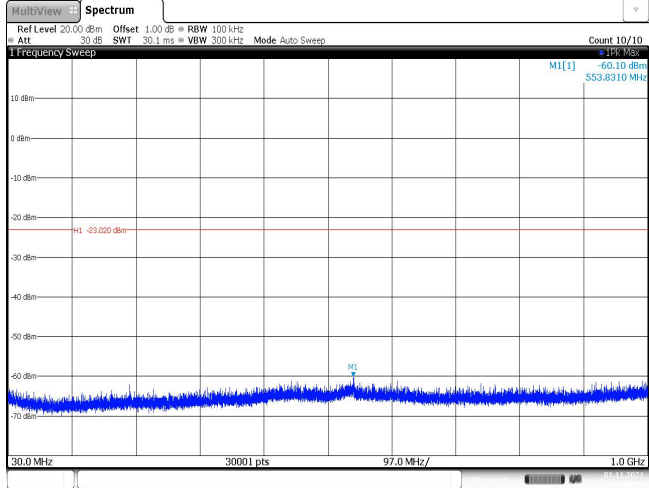
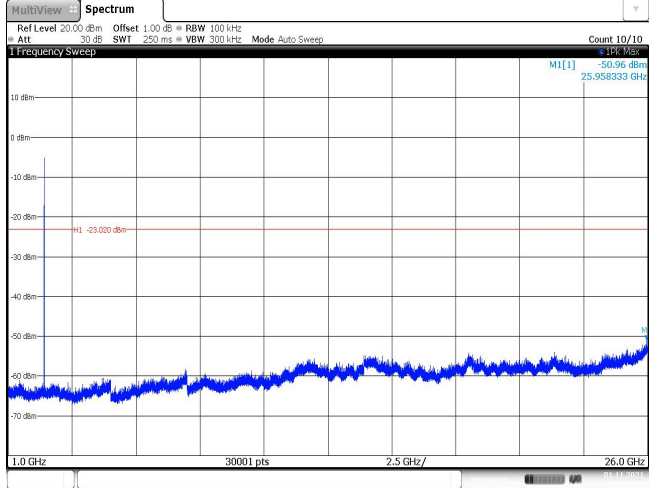
1 Frequency Sweep

2 Marker Table

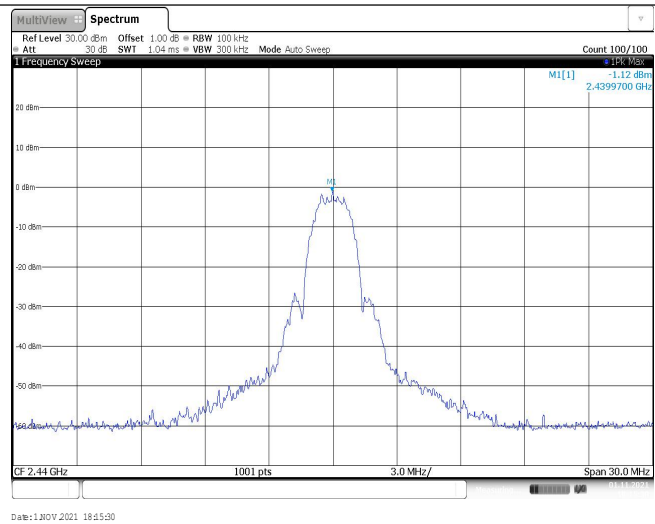
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		2.479989 GHz	-1.69 dBm		
M2	1		2.4835 GHz	-50.09 dBm		
M3	1		2.5 GHz	-74.22 dBm		
M4	1		2.48394 GHz	-48.07 dBm		

2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz

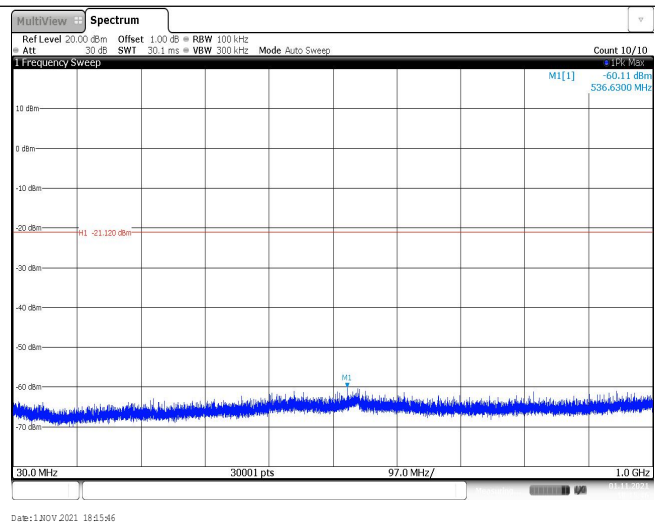
Date: 130V 2021 1859:16

Test Item:	SE
CH _L Reference level	 Date: 1 NOV 2021 18:07:59
CH _L 30MHz~1000MHz	 Date: 1 NOV 2021 18:08:16
CH _L 1GHz~26GHz	 Date: 1 NOV 2021 18:09:29

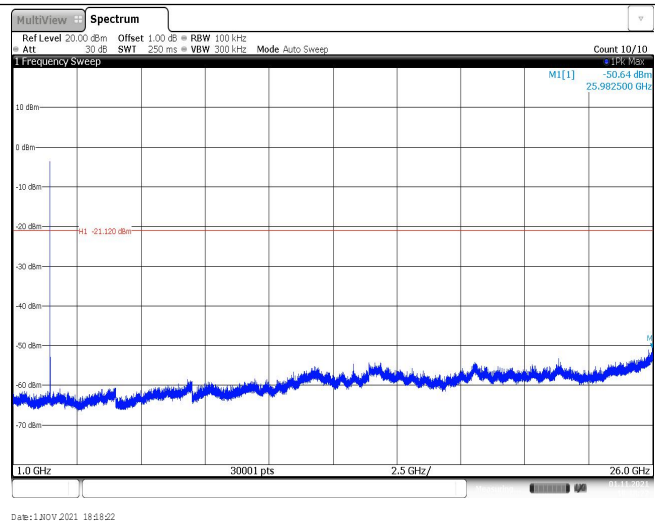
CH_M
Reference level

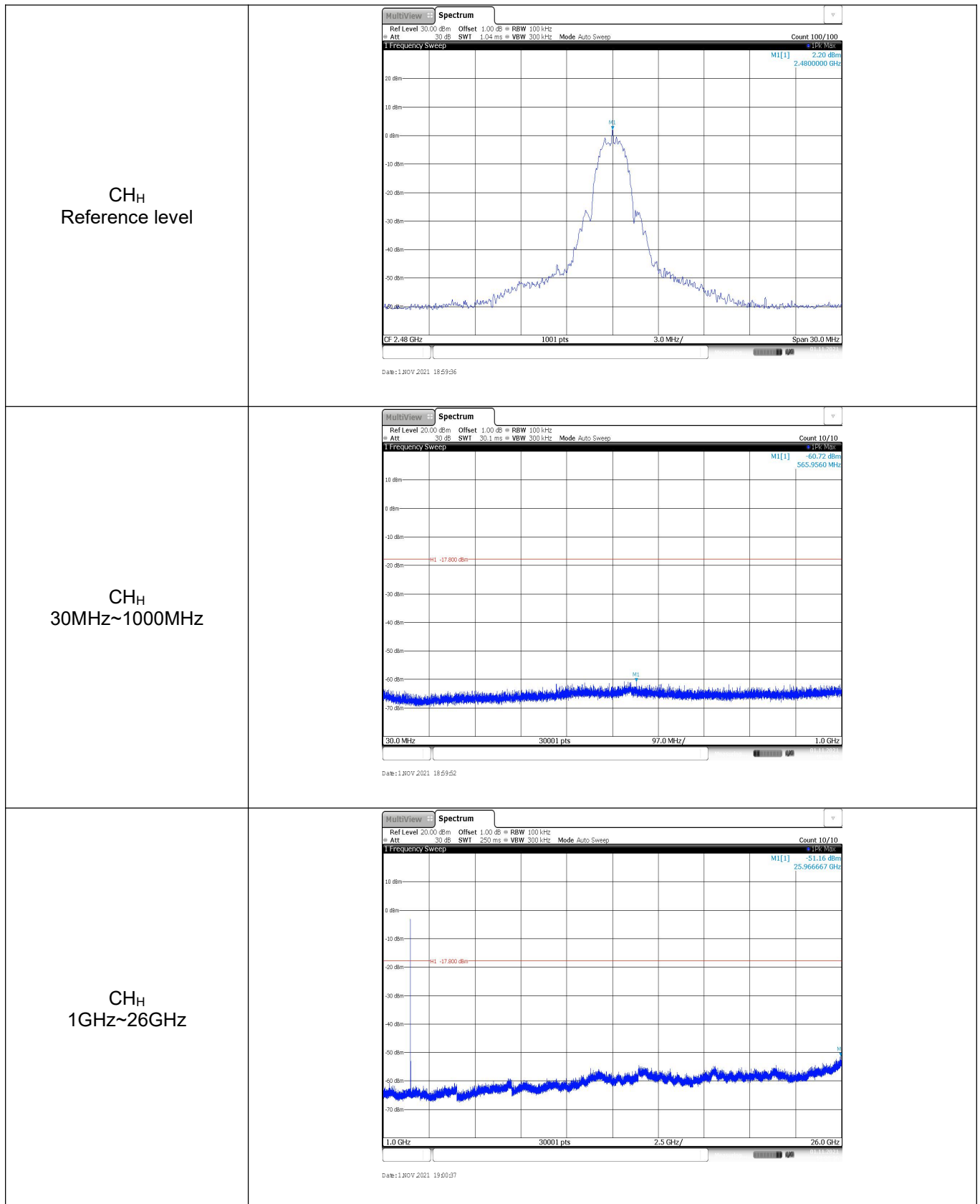


CH_M
30MHz~1000MHz



CH_M
1GHz~26GHz





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