

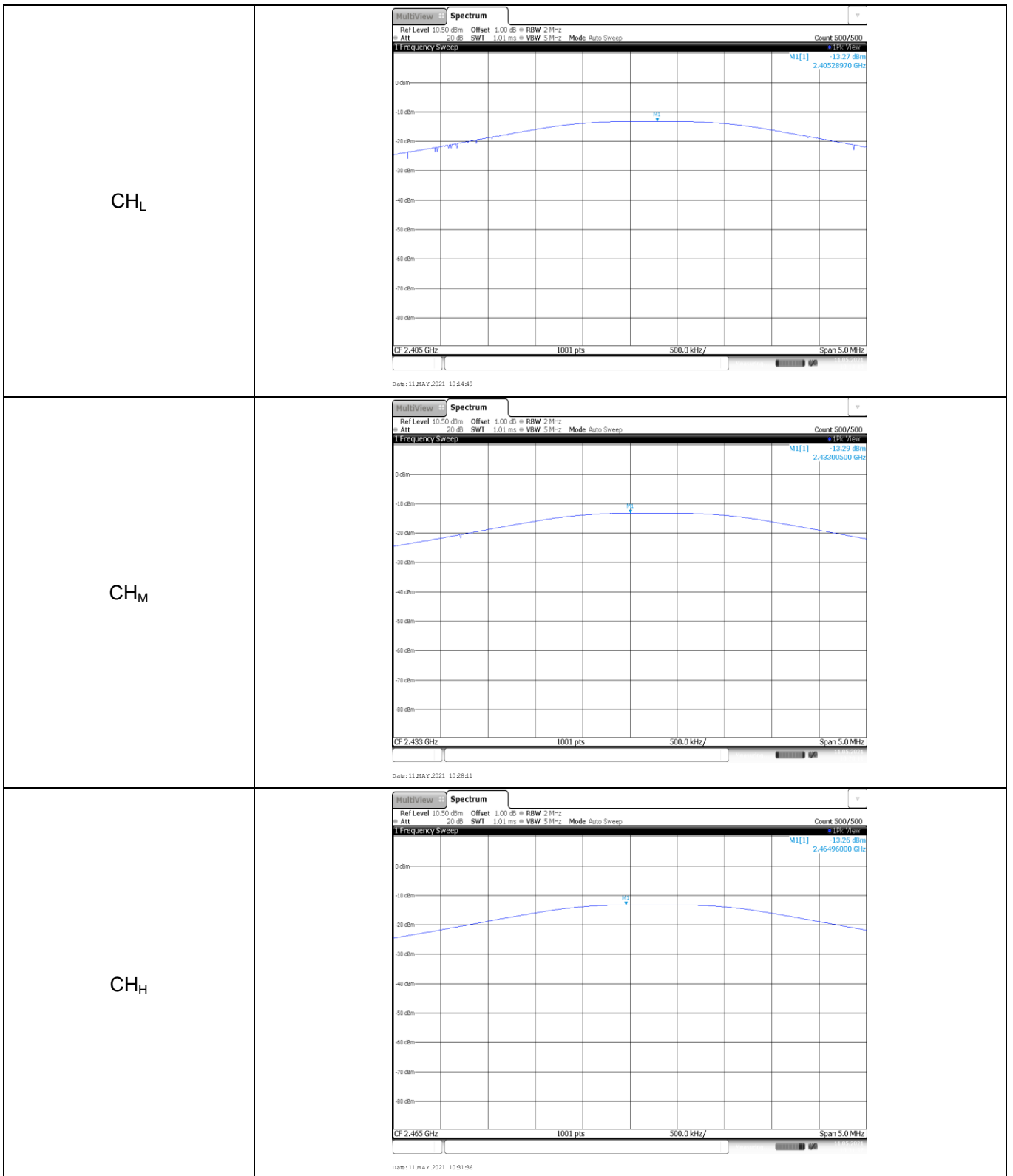
APPENDIX REPORT

Project No.	SHT2104052305EW	Radio Specification	GFSK
Test sample No.	YPHT21040523003	Model No.	85810(5785-W)-Vehicle
Start test date	2021-05-11	Finish date	2021-05-11
Temperature	24.5°C	Humidity	36%
Test Engineer	Hailey Chen	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

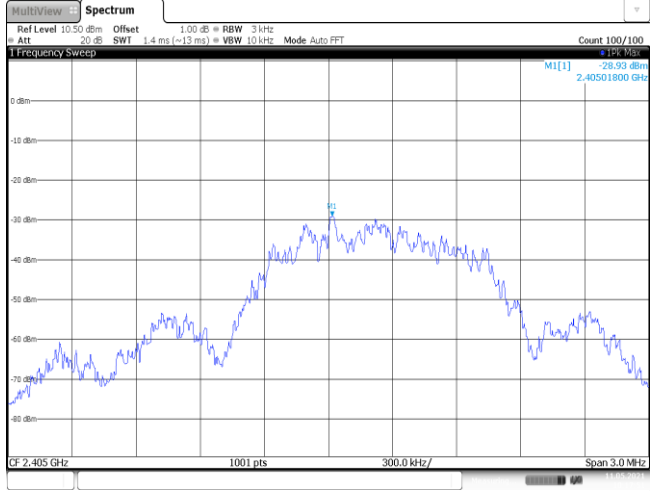
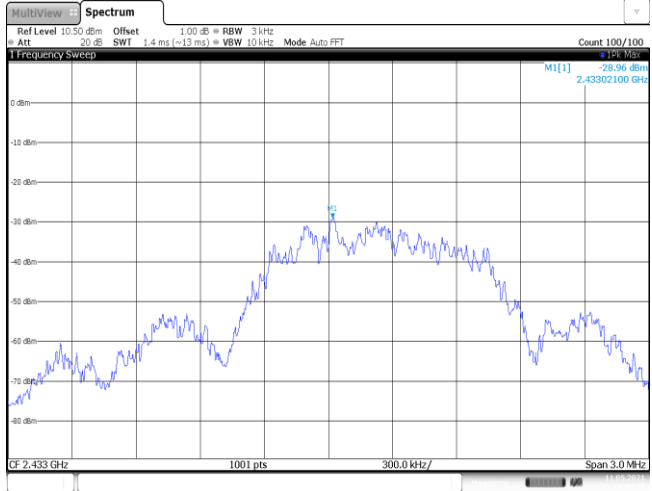
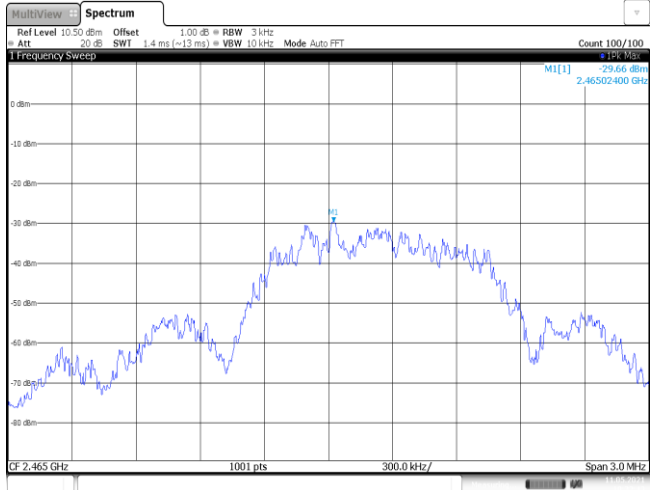
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	CH _L	-13.27	-13.30	≤ 30.00	Pass
	CH _M	-13.29	-13.31		
	CH _H	-13.26	-13.27		



Appendix B: Power Spectral Density

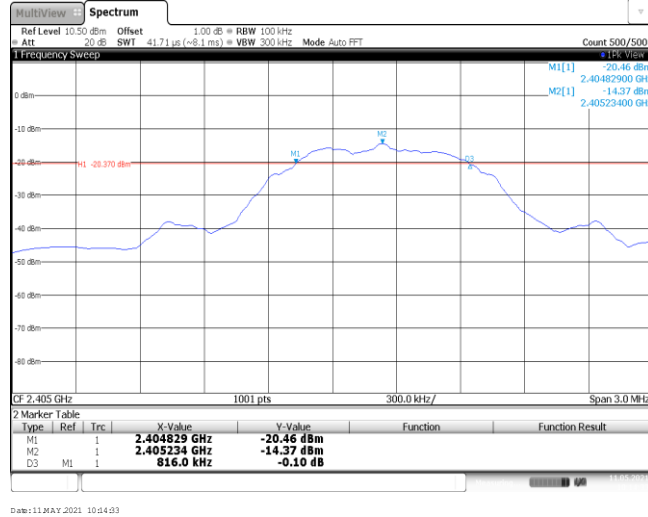
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
GFSK	CH _L	-28.93	≤8.00	Pass
	CH _M	-28.96		
	CH _H	-29.66		

<p>CH_L</p>	 <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Count 100/100 Att 20 dB SWF 1.4 ms (~15 ms) YBW 10 kHz Mode Auto FFT M[1] -28.93 dBm 2.40501800 GHz CF 2.405 GHz 1001 pts 300.0 kHz/ Span 3.0 MHz Date: 11 MAY 2021 10:17:51</p>
<p>CH_M</p>	 <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Count 100/100 Att 20 dB SWF 1.4 ms (~15 ms) YBW 10 kHz Mode Auto FFT M[1] -28.96 dBm 2.43302100 GHz CF 2.433 GHz 1001 pts 300.0 kHz/ Span 3.0 MHz Date: 11 MAY 2021 10:28:49</p>
<p>CH_H</p>	 <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Count 100/100 Att 20 dB SWF 1.4 ms (~15 ms) YBW 10 kHz Mode Auto FFT M[1] -29.66 dBm 2.46502400 GHz CF 2.465 GHz 1001 pts 300.0 kHz/ Span 3.0 MHz Date: 11 MAY 2021 10:52:42</p>

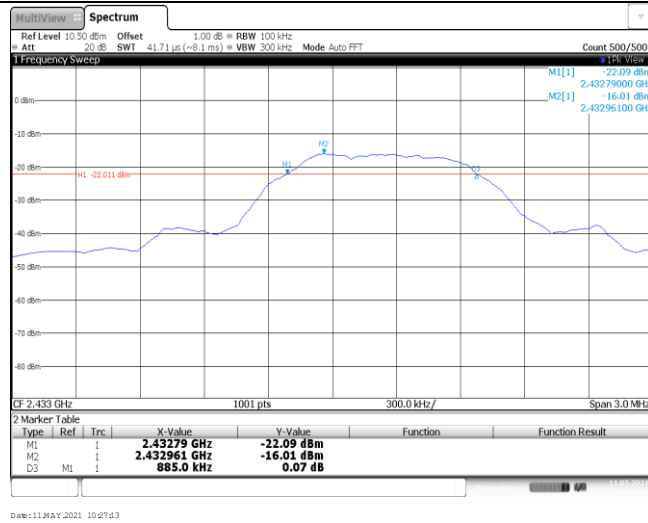
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
GFSK	CH _L	816.00	≥500	Pass
	CH _M	885.00		
	CH _H	855.00		

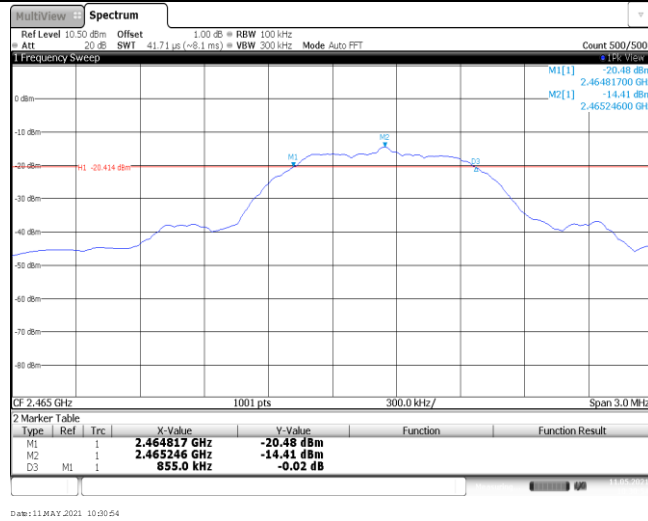
CH_L



CH_M



CH_H



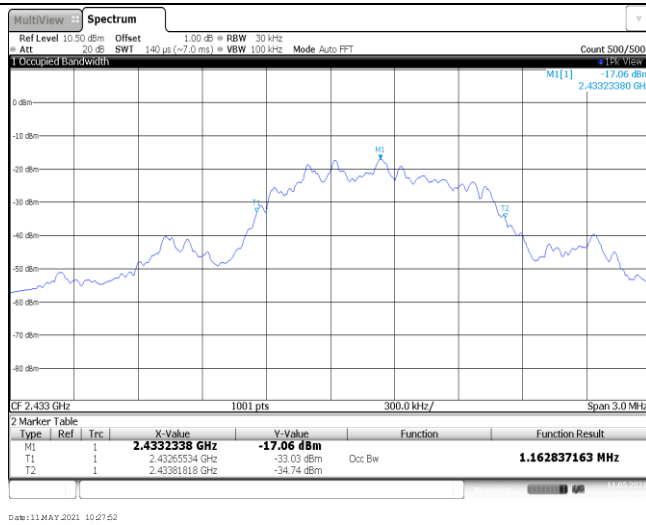
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
GFSK	CH _L	1.15	-	Pass
	CH _M	1.16		
	CH _H	1.19		

CH_L



CH_M

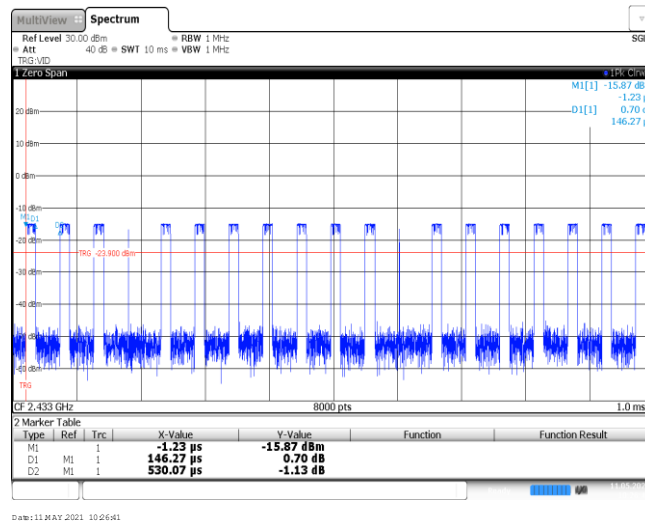


CH_H

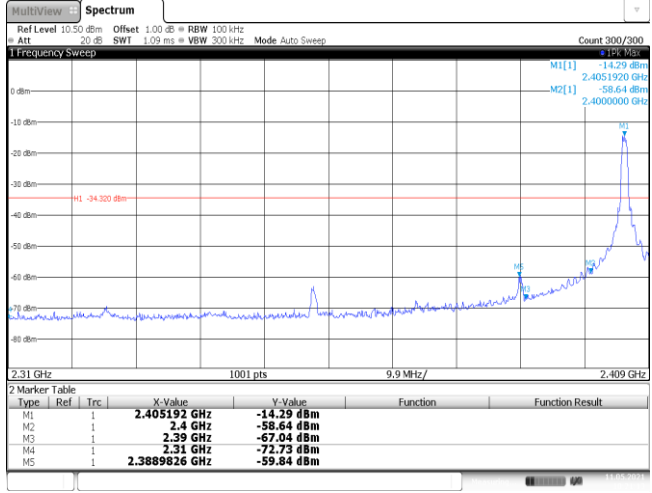
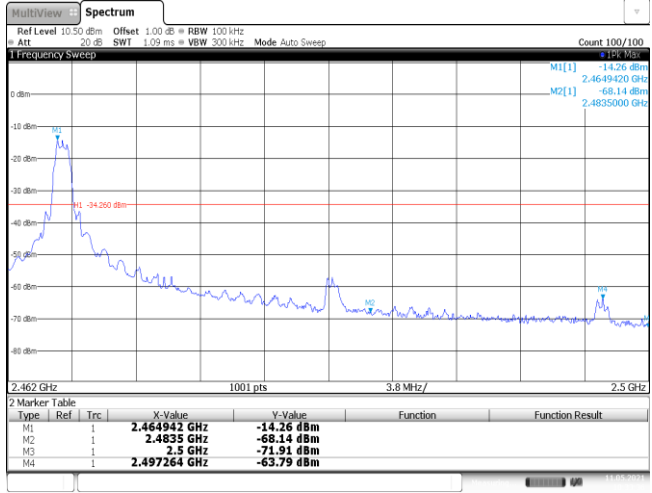


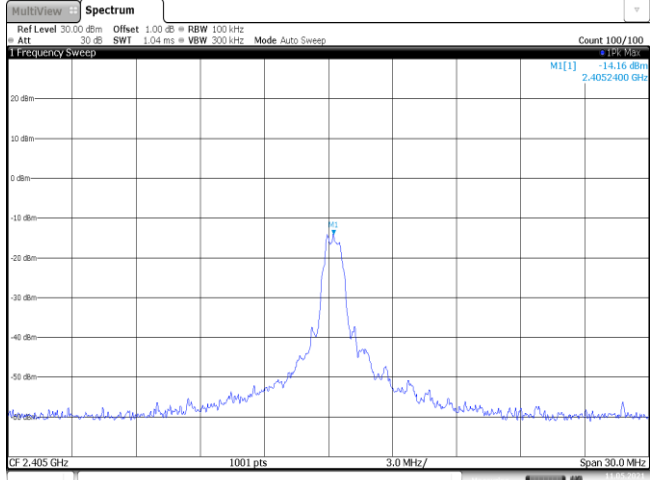
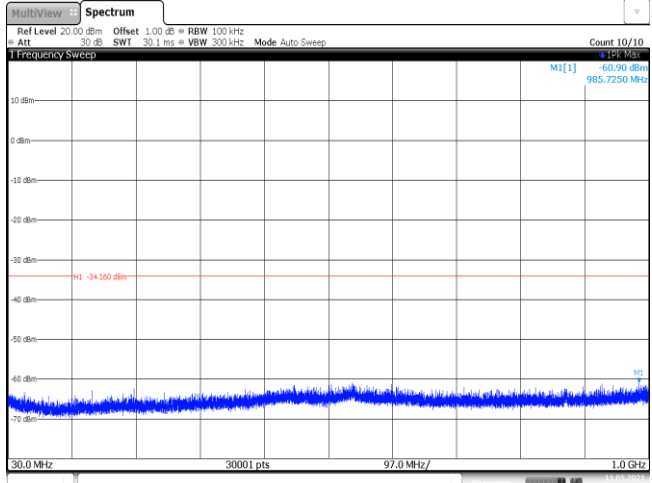
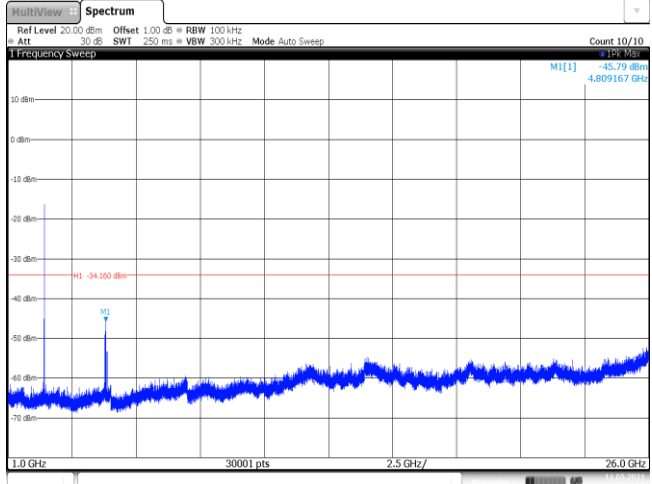
Appendix E: Duty cycle

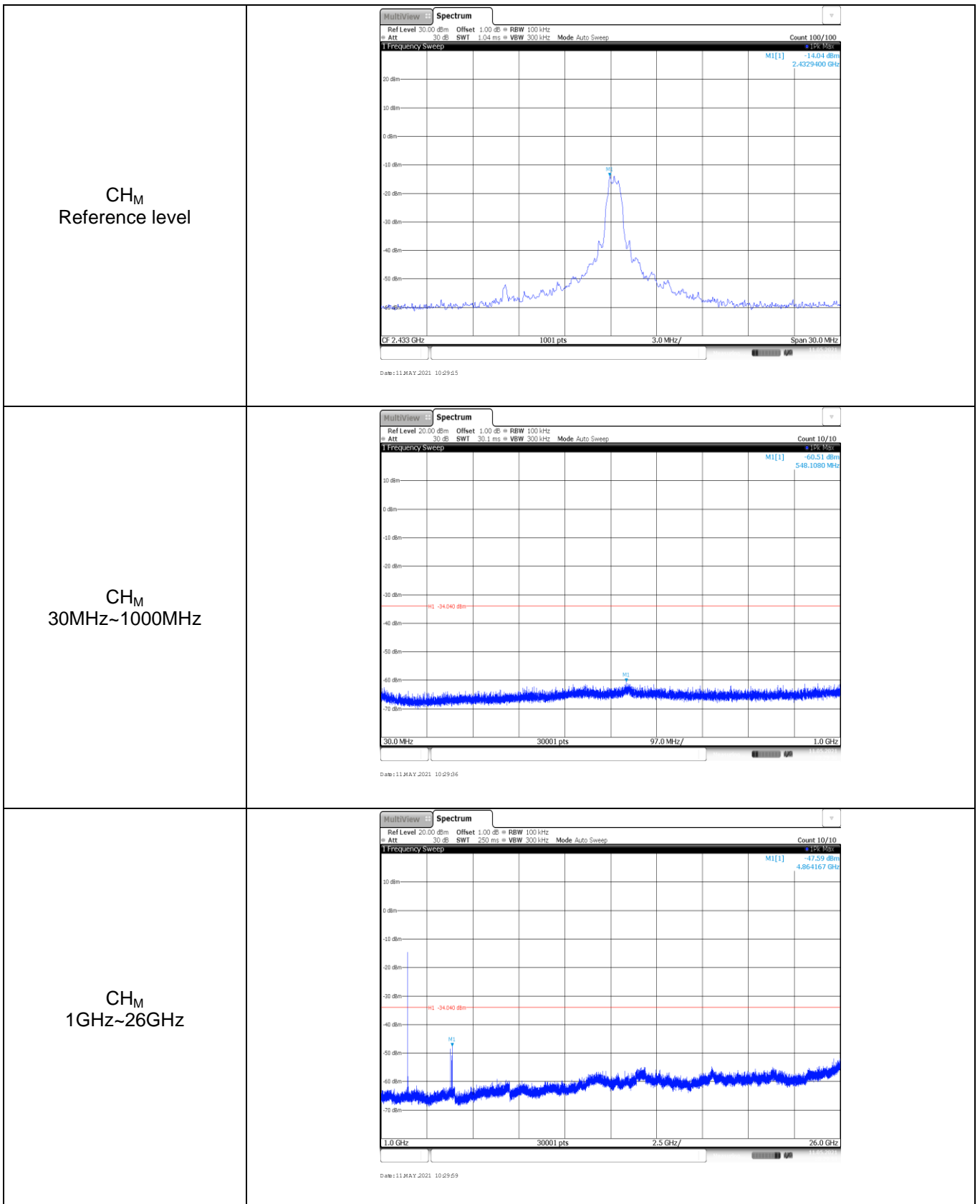
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2433	0.15	0.53	28.3%	6.7

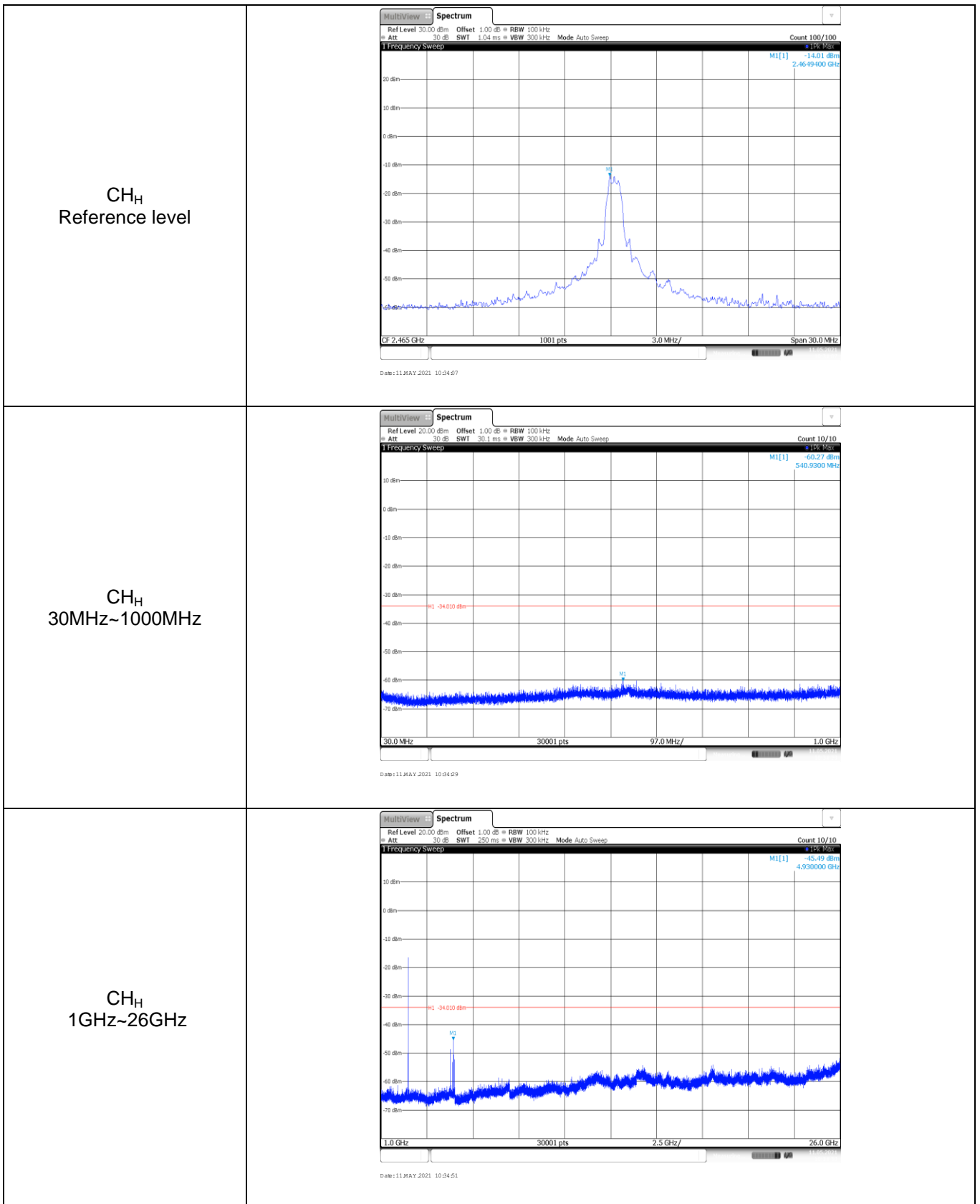


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
<p>CH_L</p>	 <table border="1" data-bbox="683 667 1337 772"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.405192 GHz</td> <td>-14.29 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-38.64 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-57.04 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-72.73 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.389826 GHz</td> <td>-59.84 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 11 MAY 2021 10:21:02</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.405192 GHz	-14.29 dBm			M2	1		2.4 GHz	-38.64 dBm			M3	1		2.39 GHz	-57.04 dBm			M4	1		2.31 GHz	-72.73 dBm			M5	1		2.389826 GHz	-59.84 dBm		
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Test Item:	SE
<p>CH_L Reference level</p>	
<p>CH_L 30MHz~1000MHz</p>	
<p>CH_L 1GHz~26GHz</p>	





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