

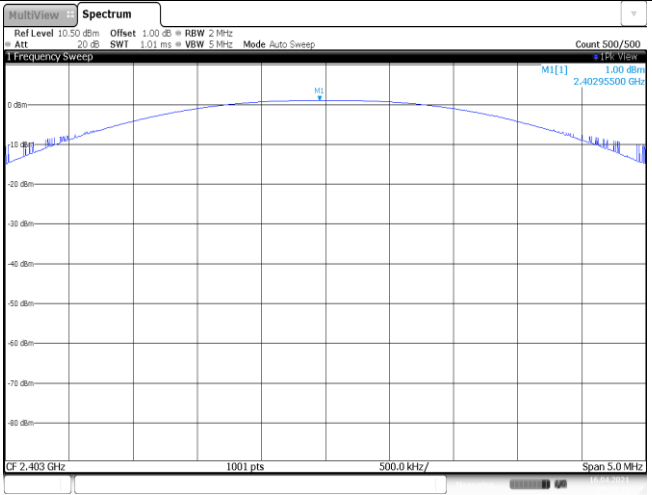
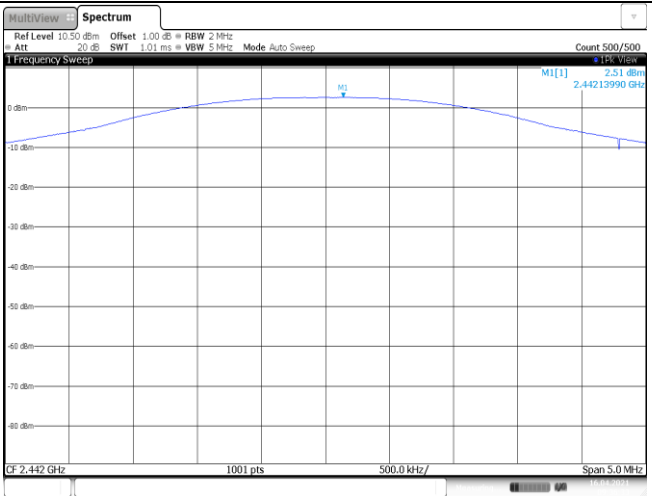
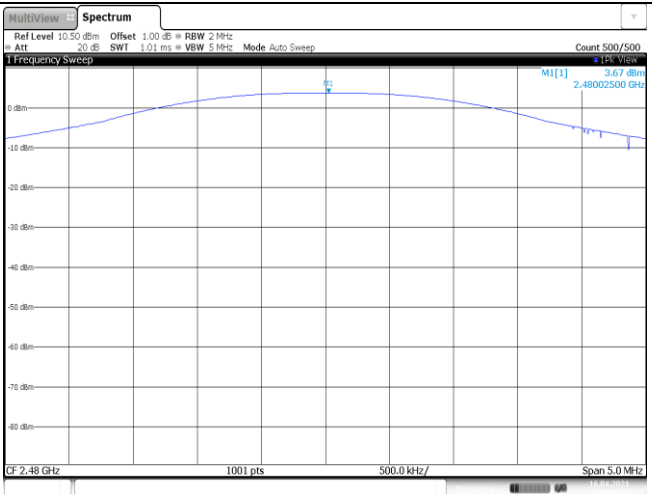
APPENDIX REPORT

Project No.	SHT2101068501EW	Radio Specification	GFSK
Test sample No.	YPHT21010585003	Model No.	NTM-MCP-05-TC-01
Start test date	2021-04-16	Finish date	2021-04-16
Temperature	23.4°C	Humidity	43%
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

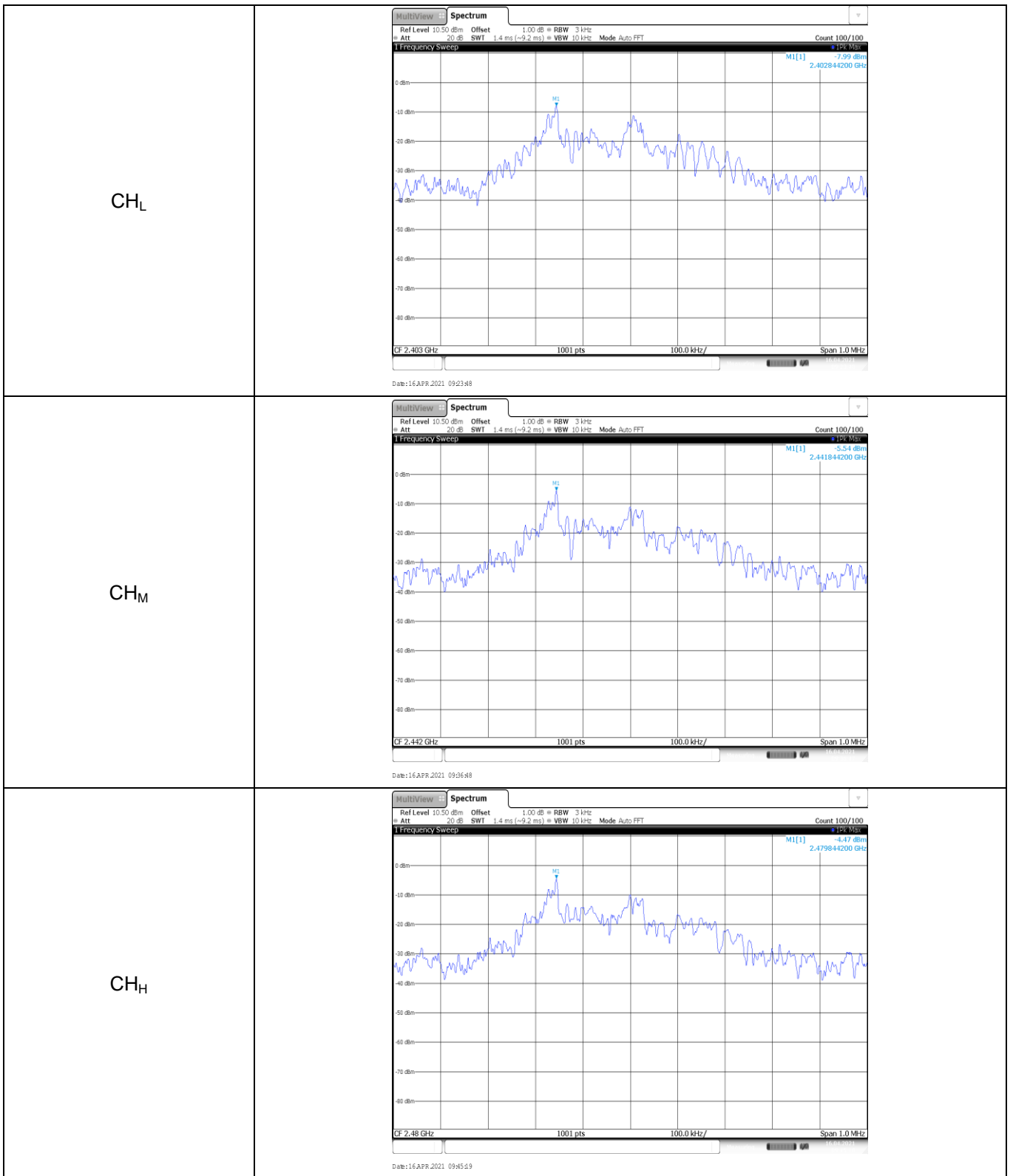
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	CH _L	1.00	0.99	≤ 30.00	Pass
	CH _M	2.51	2.50		
	CH _H	3.67	3.65		

<p>CH_L</p>	 <p>Date: 16 APR, 2021 09:23:03</p>
<p>CH_M</p>	 <p>Date: 16 APR, 2021 09:06:03</p>
<p>CH_H</p>	 <p>Date: 16 APR, 2021 09:45:03</p>

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
GFSK	CH _L	-7.99	≤8.00	Pass
	CH _M	-5.54		
	CH _H	-4.47		



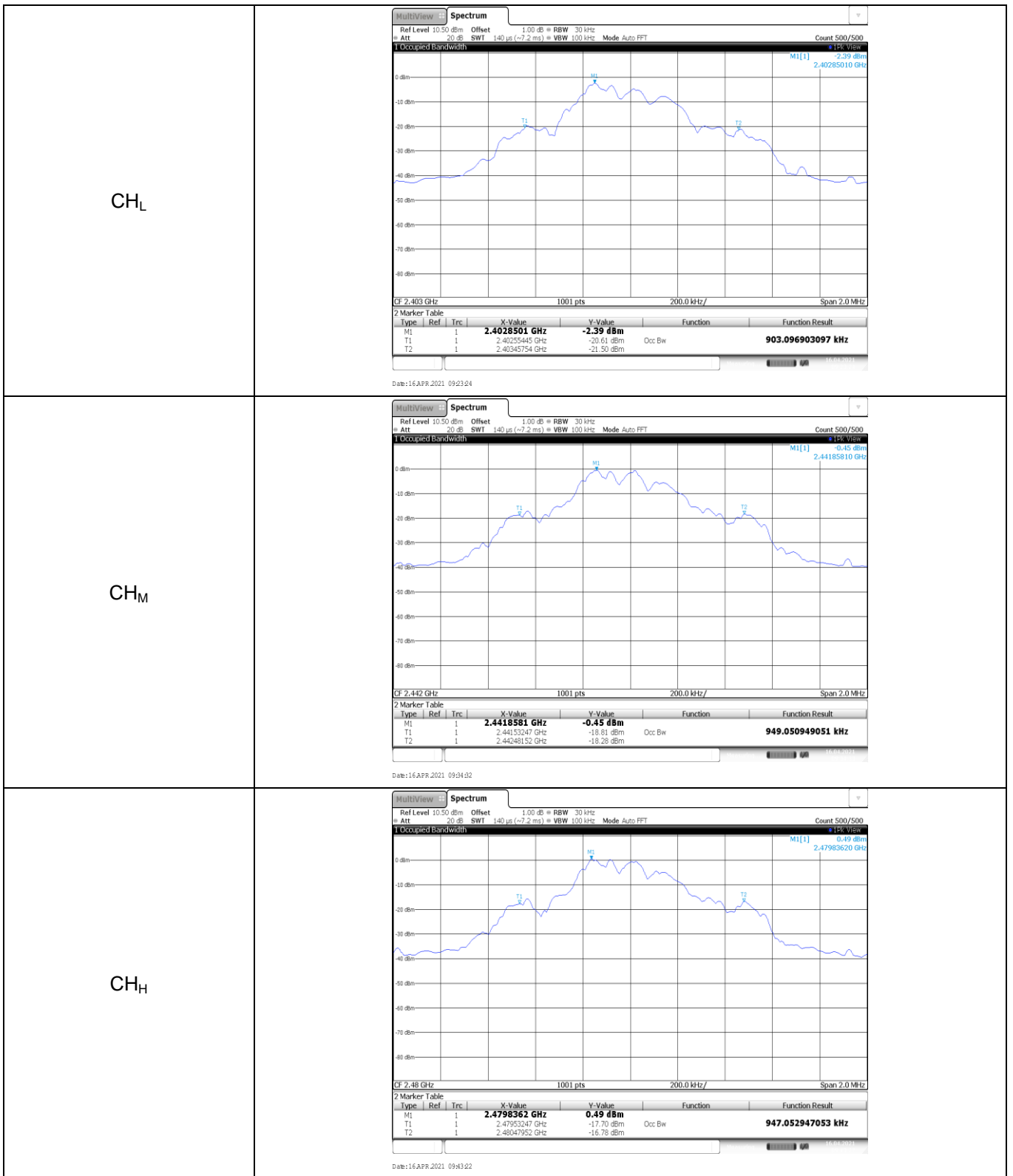
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
GFSK	CH _L	516.00	≥500	Pass
	CH _M	514.00		
	CH _H	510.00		

<p>CH_L</p>	<p>2 Marker Table</p> <table border="1"> <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></td> <td></td> <td>2.402738 GHz</td> <td>-7.14 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td></td> <td>2.403066 GHz</td> <td>-1.04 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td></td> <td>516.0 kHz</td> <td>0.02 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 16 APR, 2021 09:29:37</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1			2.402738 GHz	-7.14 dBm			M2			2.403066 GHz	-1.04 dBm			D3	M1		516.0 kHz	0.02 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
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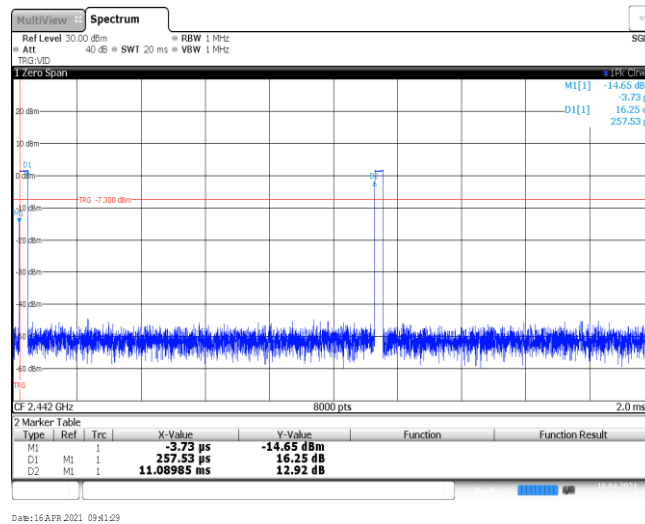
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
GFSK	CH _L	0.90	-	Pass
	CH _M	0.95		
	CH _H	0.95		

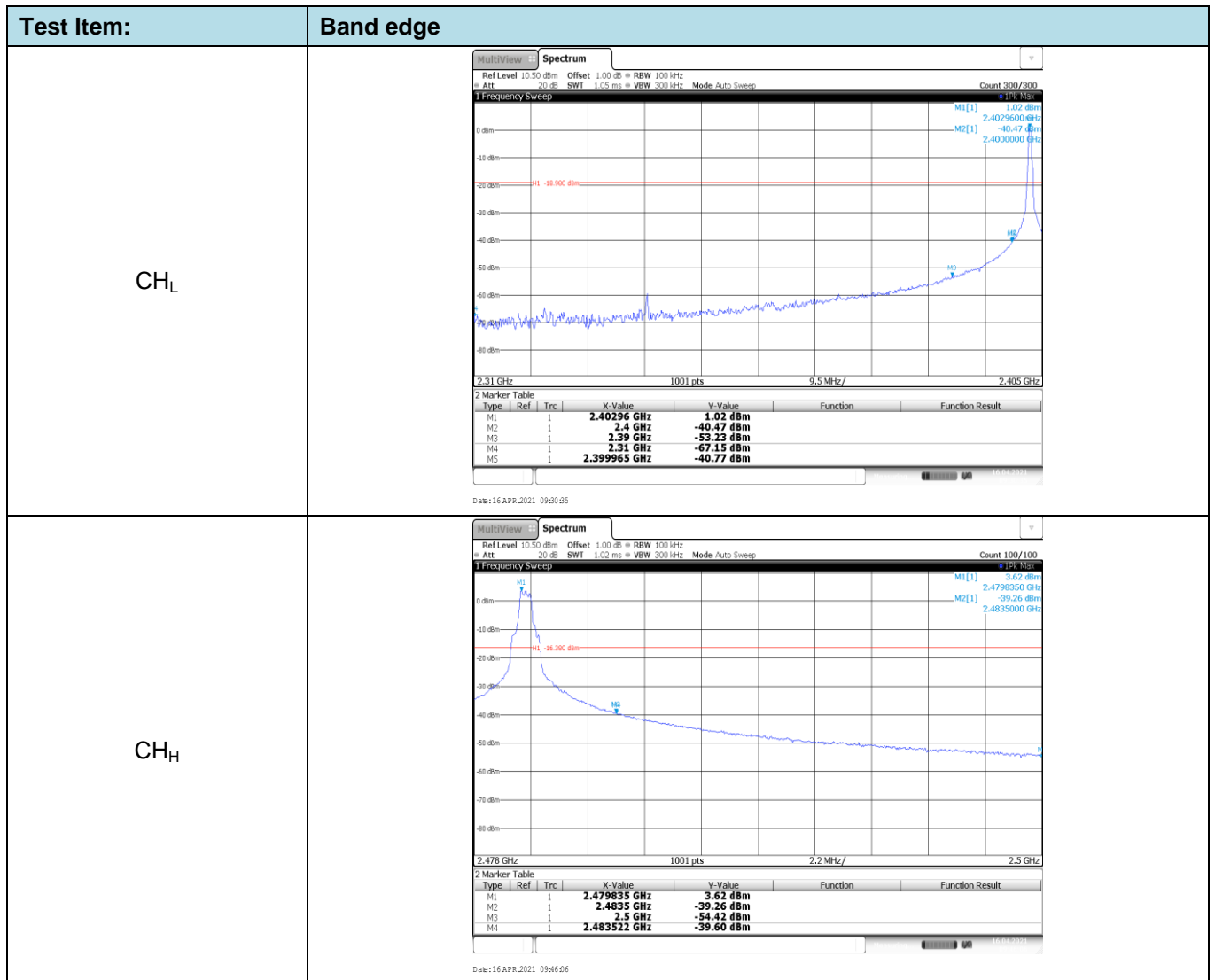


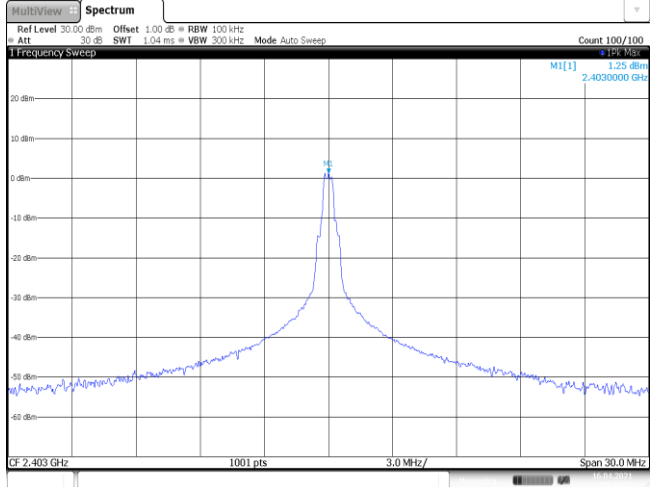
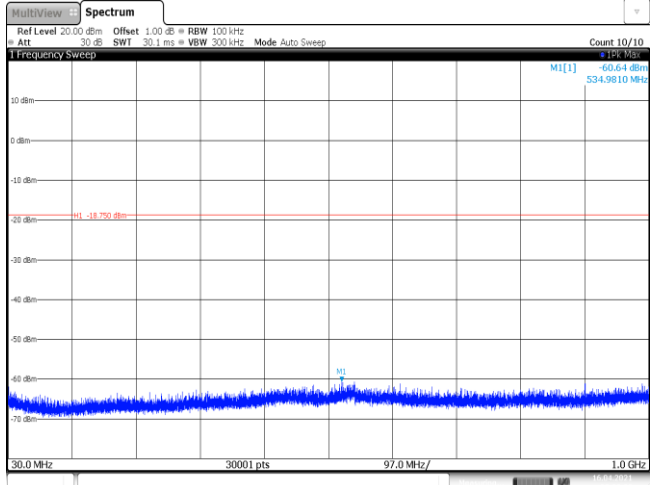
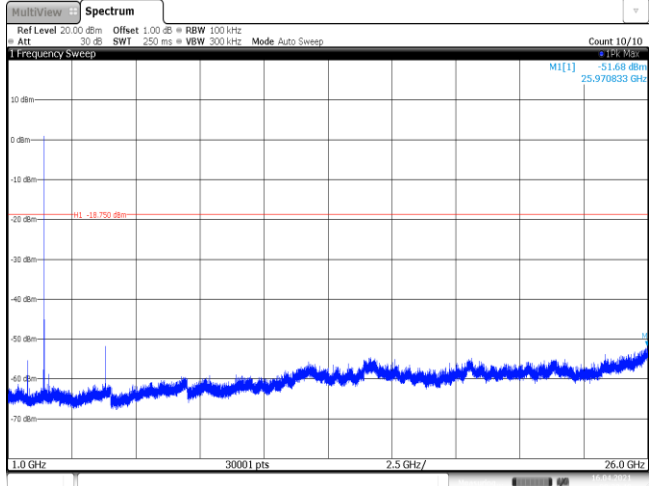
Appendix E: Duty cycle

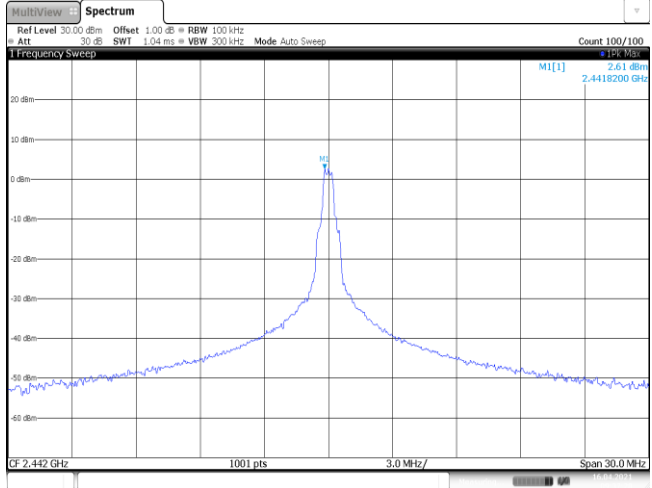
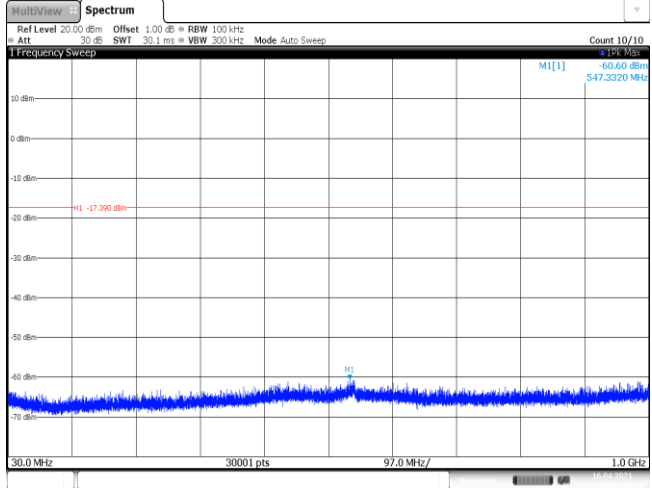
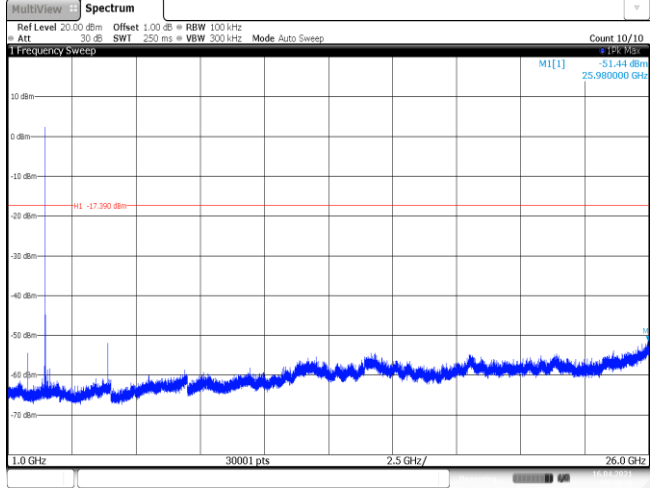
Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2442	0.26	11.09	2.3%	3.8



Appendix F: Band edge and Spurious Emissions (conducted)



Test Item:	SE
<p>CH_L Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 1.25 dBm 2.4030000 GHz CF 2.403 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 16 APR 2021 09:31:48</p>
<p>CH_L 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.64 dBm 534.5010 MHz -18.750 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 16 APR 2021 09:32:03</p>
<p>CH_L 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -51.68 dBm 25.970633 GHz -18.750 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 16 APR 2021 09:32:40</p>

<p style="text-align: center;">CH_M Reference level</p>	 <p style="text-align: right;">M[1] 2.61 dBm 2.4418200 GHz</p> <p style="text-align: center;">CF 2.442 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p style="font-size: small;">Date: 16 APR 2021 09:07:28</p>
<p style="text-align: center;">CH_M 30MHz~1000MHz</p>	 <p style="text-align: right;">M[1] -60.60 dBm 547.3320 MHz</p> <p style="text-align: center;">30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz</p> <p style="font-size: small;">Date: 16 APR 2021 09:07:44</p>
<p style="text-align: center;">CH_M 1GHz~26GHz</p>	 <p style="text-align: right;">M[1] -51.44 dBm 25.980000 GHz</p> <p style="text-align: center;">1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz</p> <p style="font-size: small;">Date: 16 APR 2021 09:08:50</p>

<p>CH_H Reference level</p>	<p>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] 2.74 dBm 2.480000 GHz CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date:16 APR,2021 09:47:40</p>
<p>CH_H 30MHz~1000MHz</p>	<p>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] -60.56 dBm 537.4710 MHz M1 -17.260 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date:16 APR,2021 09:47:45</p>
<p>CH_H 1GHz~26GHz</p>	<p>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] -51.47 dBm 25.967500 GHz M1 -17.260 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date:16 APR,2021 09:47:57</p>

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