

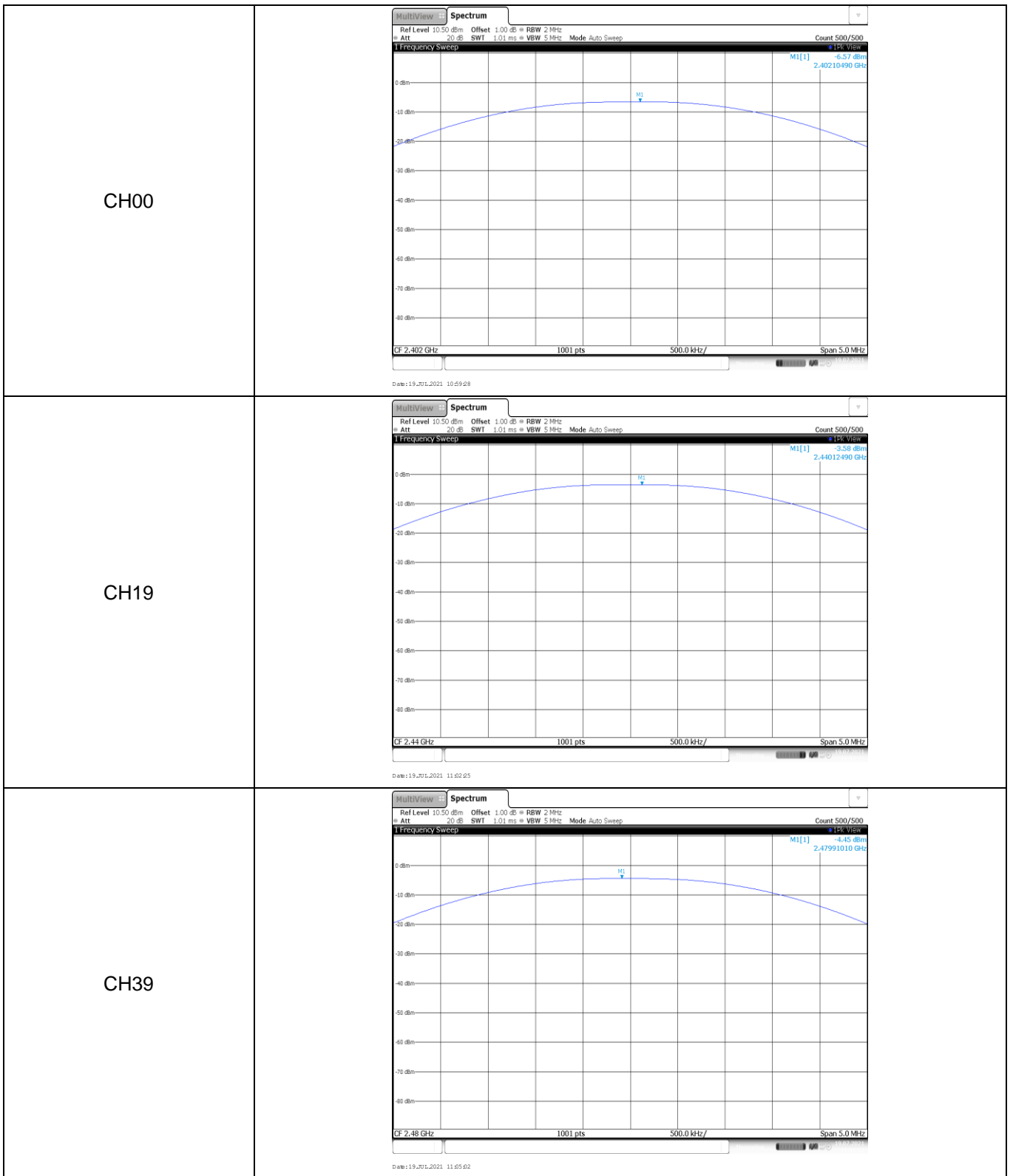
APPENDIX REPORT

Project No.	SHT2107048003EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21070480016	Model No.	CT9F8A
Start test date	2021-07-19	Finish date	2021-07-19
Temperature	25.8°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

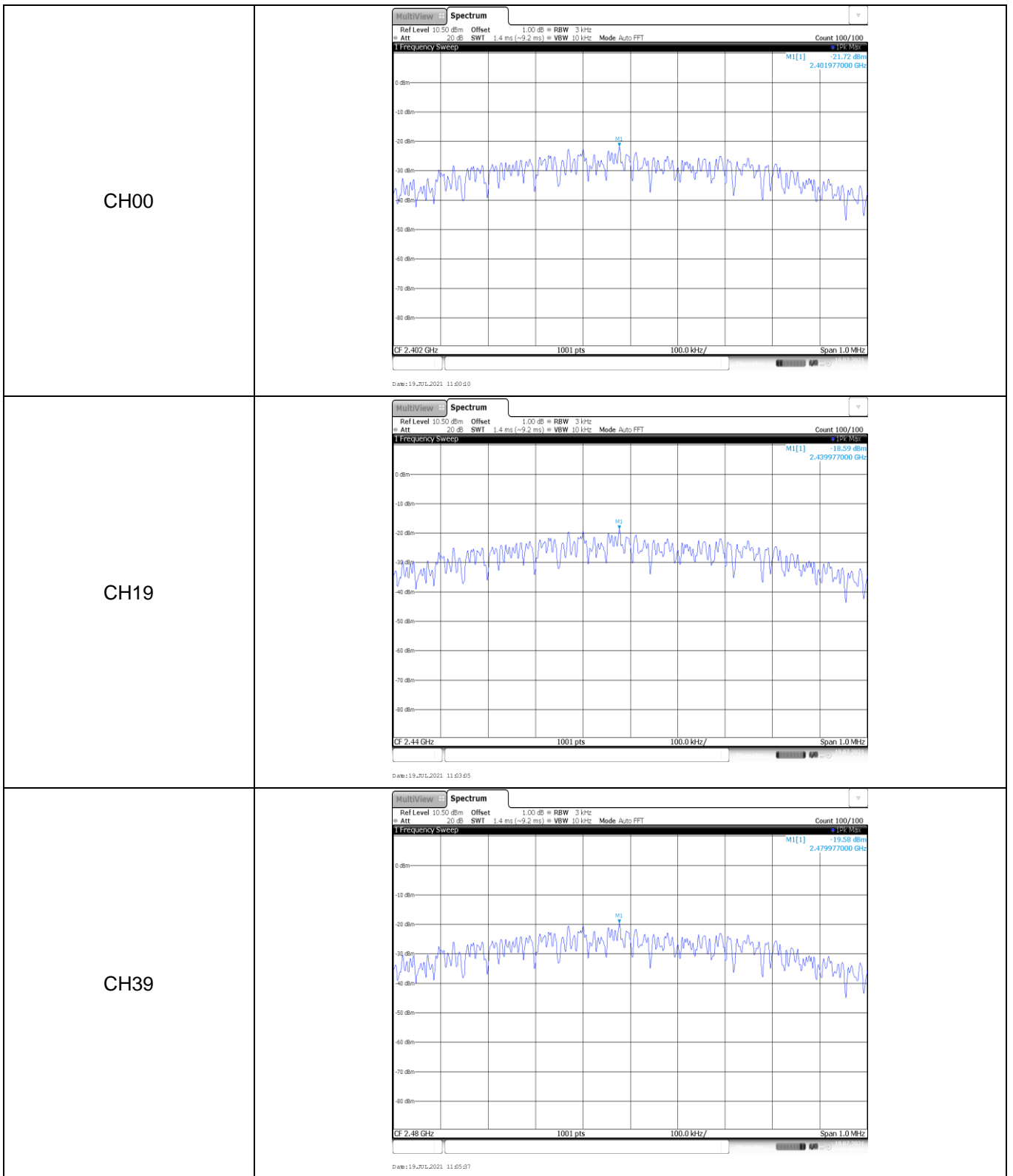
Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	-6.57	-6.66	≤ 30.00	Pass
	19	-3.58	-3.67		
	39	-4.45	-4.54		



Appendix B: Power Spectral Density

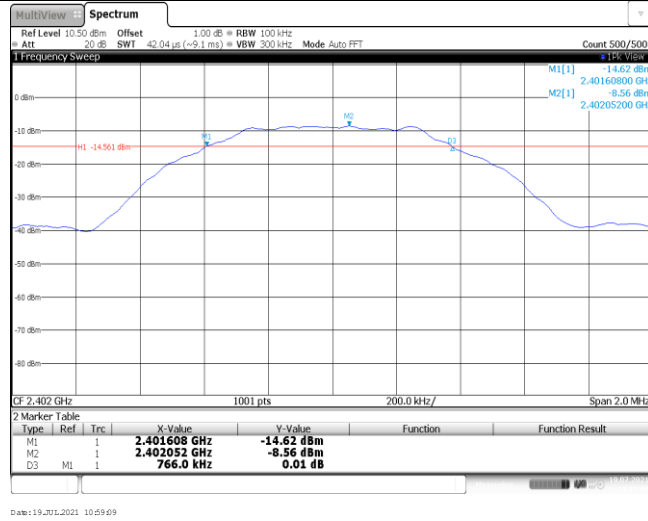
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-21.72	≤8.00	Pass
	19	-18.59		
	39	-19.58		



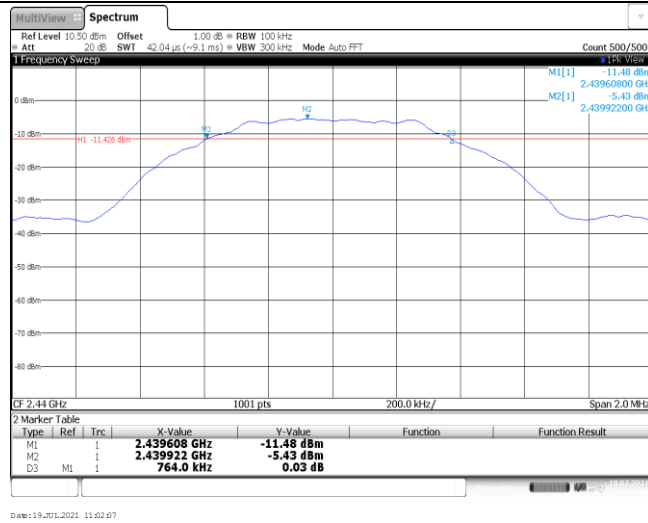
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	766.00	≥500	Pass
	19	764.00		
	39	760.00		

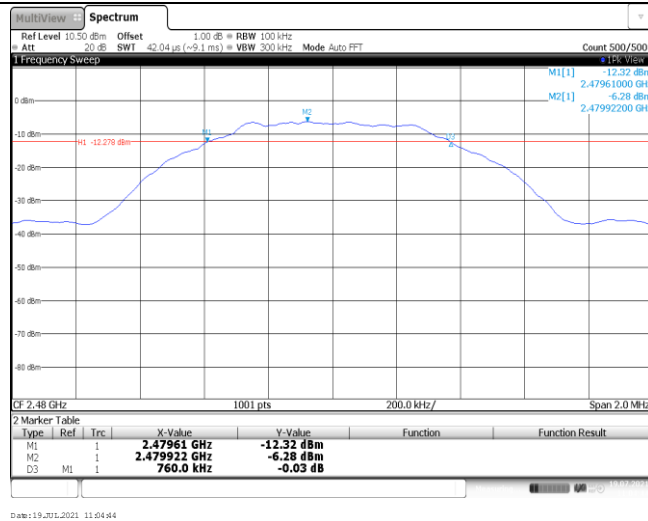
CH00



CH19

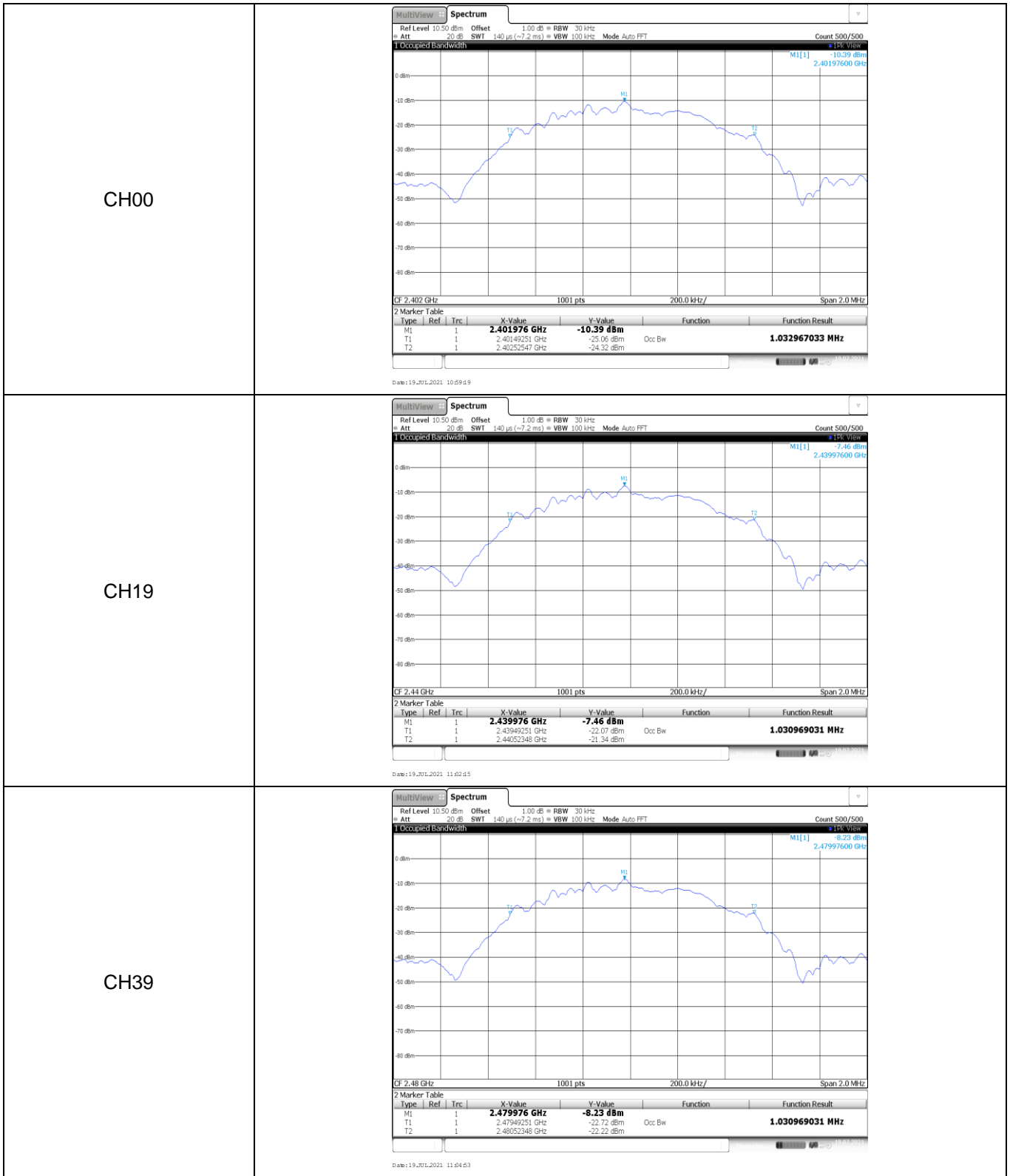


CH39



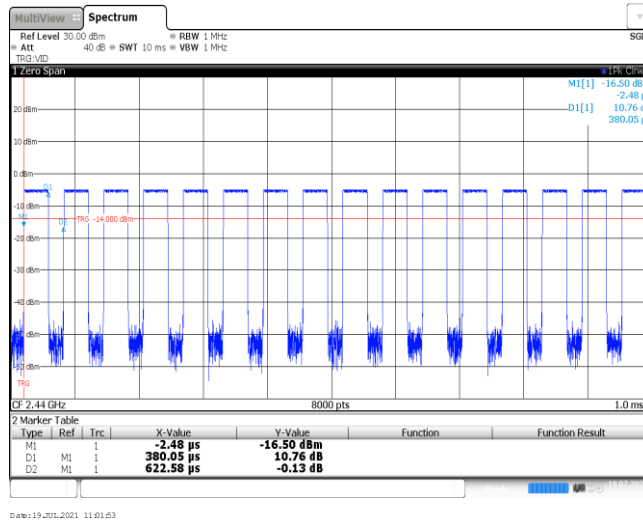
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.03	-	Pass
	19	1.03		
	39	1.03		

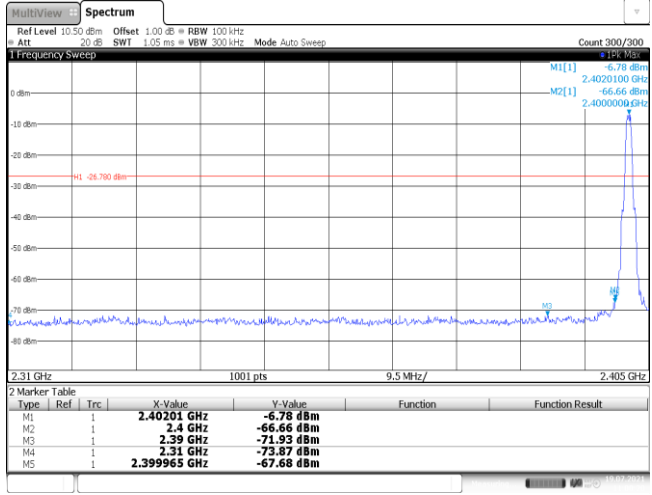
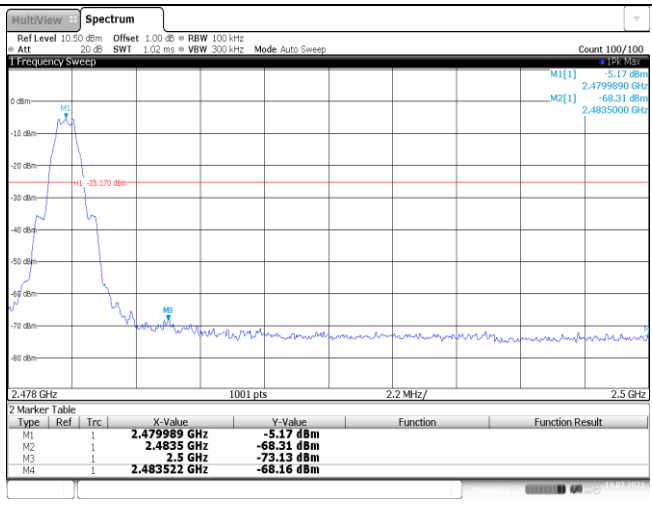


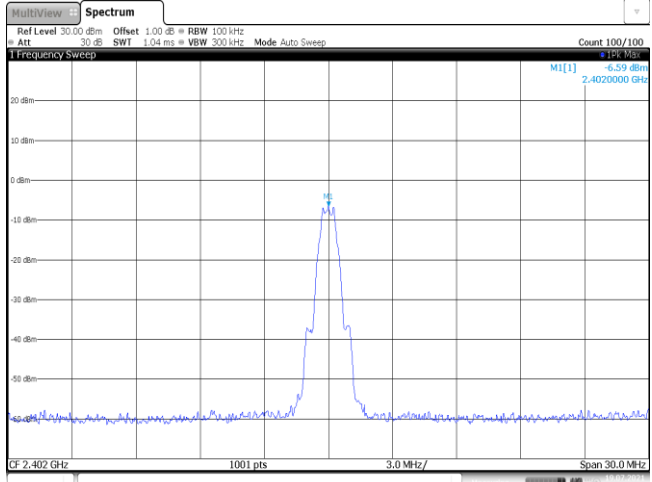
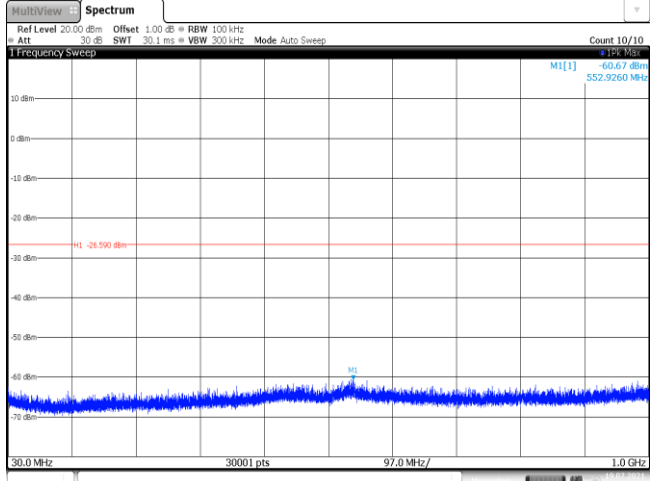
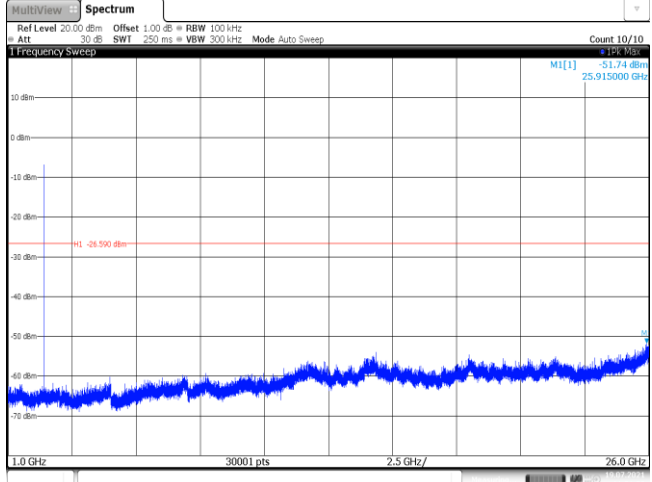
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.38	0.62	61.3%	2.6

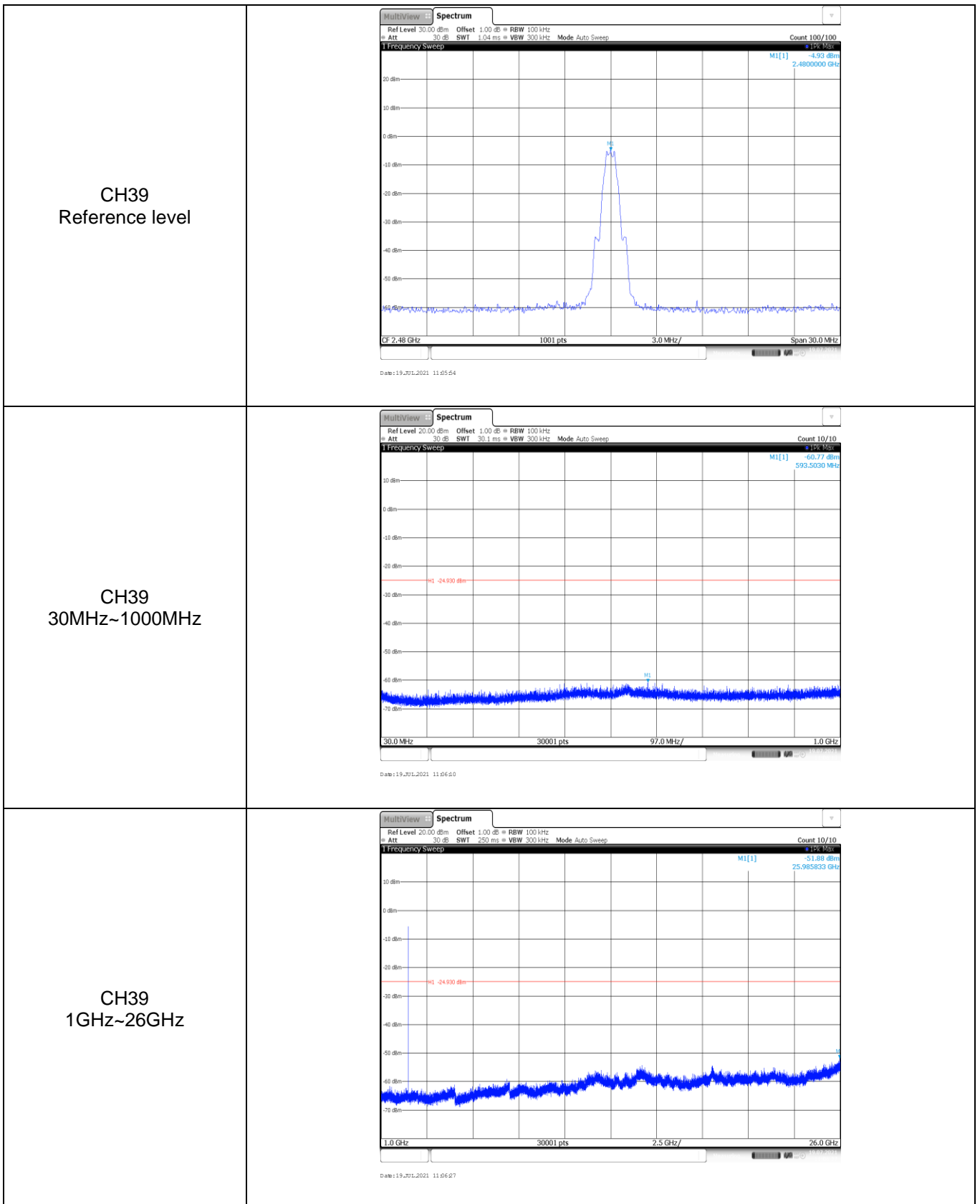


Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
<p style="text-align: center;">CH00</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>1</td> <td></td> <td>2.40201 GHz</td> <td>-6.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-66.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-71.93 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-73.87 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-67.68 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19.7.2021 11:00:21</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	-6.78 dBm			M2	1		2.4 GHz	-66.66 dBm			M3	1		2.39 GHz	-71.93 dBm			M4	1		2.31 GHz	-73.87 dBm			M5	1		2.399965 GHz	-67.68 dBm		
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Test Item:	SE
<p>CH00 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 MI[1] 6.59 dBm 2.4020000 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 19-Jul-2021 11:00:27</p>
<p>CH00 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 MI[1] -60.67 dBm 552.5260 MHz H1 -26.500 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 19-Jul-2021 11:00:43</p>
<p>CH00 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 MI[1] -51.74 dBm 25.915000 GHz H1 -26.500 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 19-Jul-2021 11:01:00</p>

<p>CH19 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 M[1] -4.00 dBm 2.440000 GHz CF 2.44 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 19-Jul-2021 11:03:11</p>
<p>CH19 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 M[1] -60.68 dBm 841.0710 MHz H1 -24.000 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 19-Jul-2021 11:03:27</p>
<p>CH19 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 M[1] -51.69 dBm 25.885833 GHz H1 -24.000 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 19-Jul-2021 11:03:44</p>



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