

APPENDIX REPORT

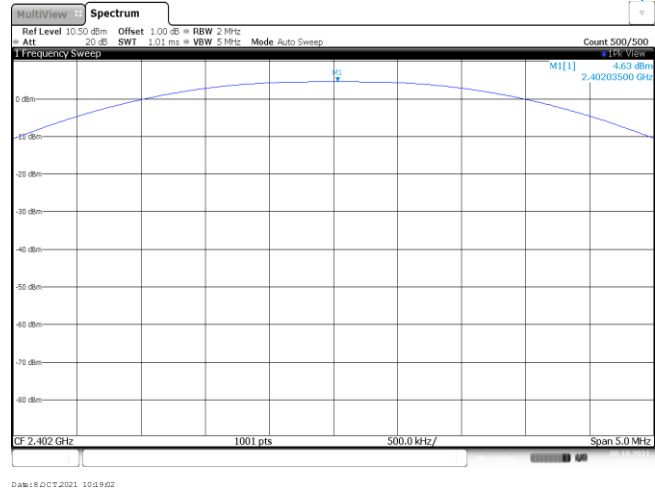
Project No.	SHT2109010913EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21090109006	Model No.	ABX00046
Start test date	2021-10-08	Finish date	2021-10-08
Temperature	26.1℃	Humidity	33%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zhao

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

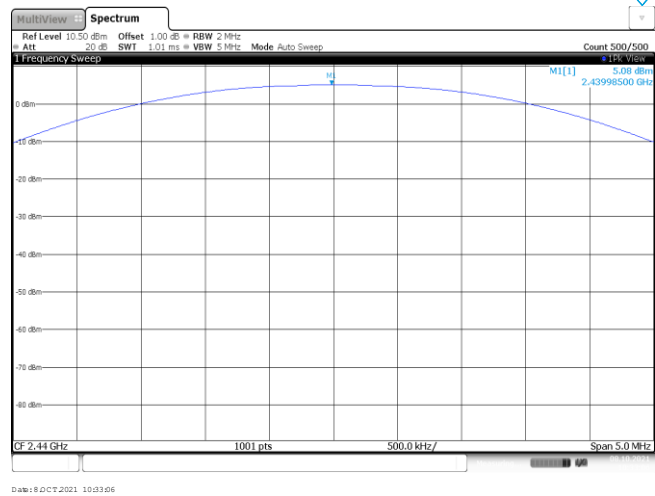
Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	4.63	3.14	≤ 30.00	Pass
	19	5.08	3.40		
	39	4.96	3.20		

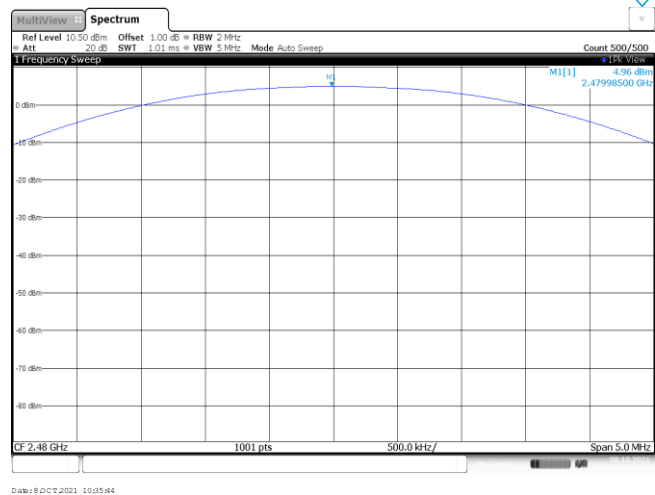
CH00



CH19

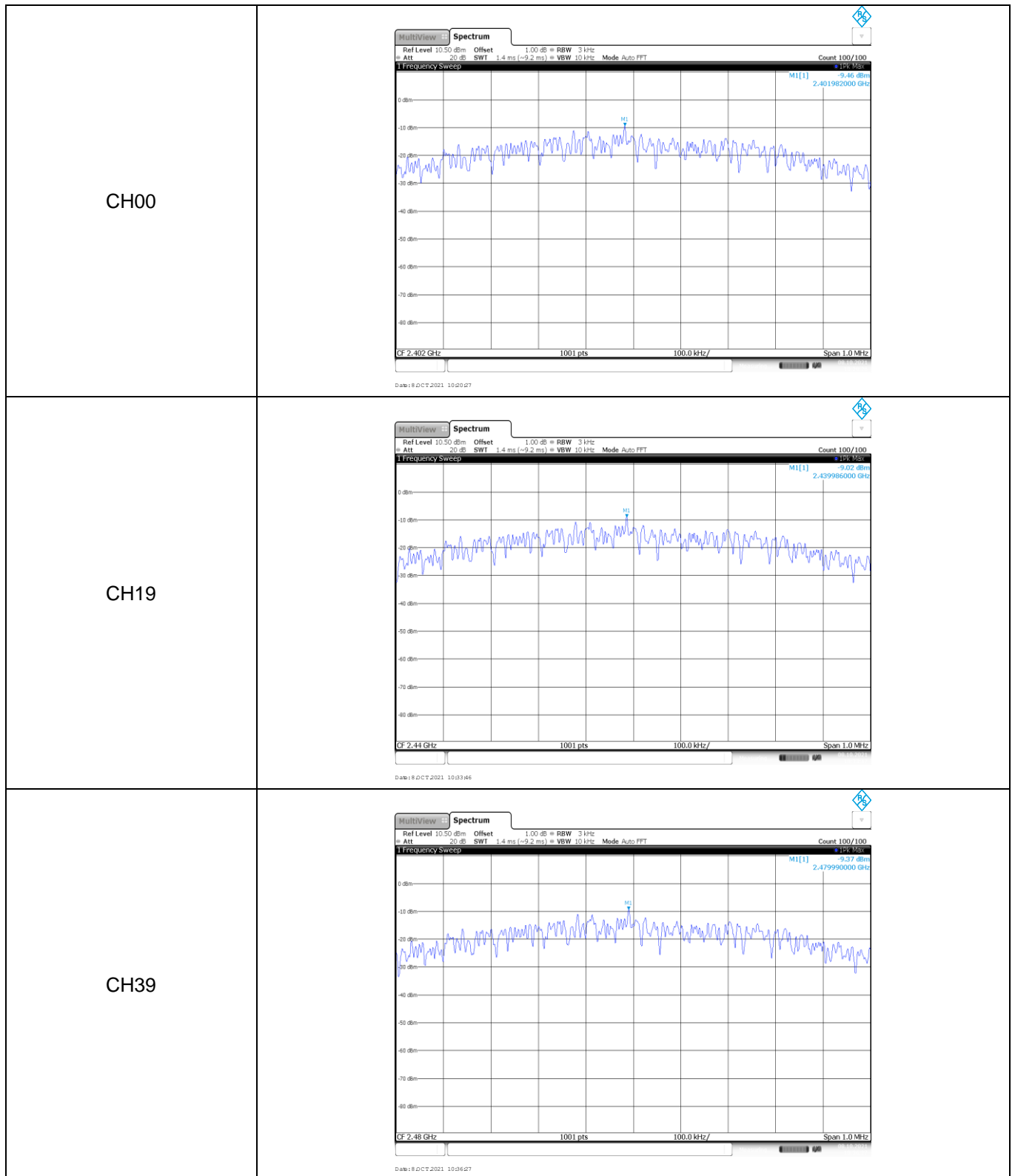


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Appendix B: Power Spectral Density

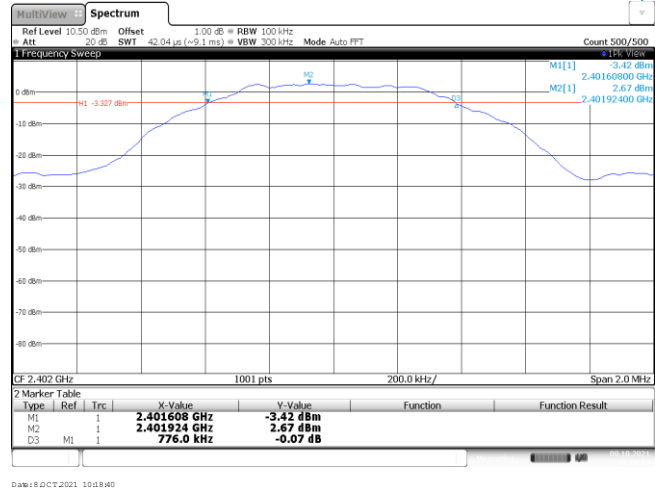
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-9.46	≤8.00	Pass
	19	-9.02		
	39	-9.37		



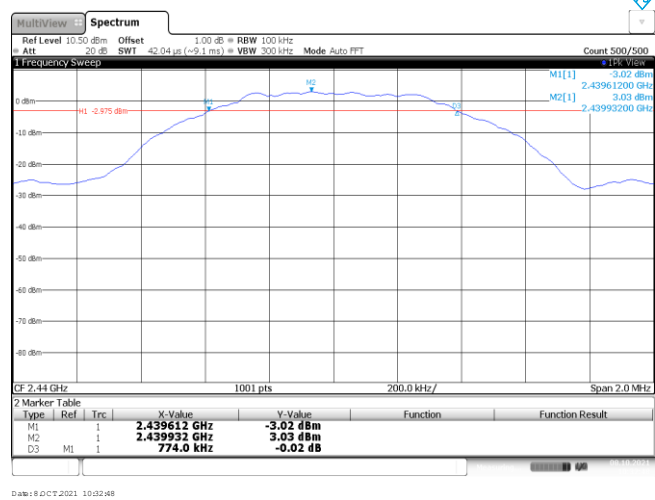
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	776.00	≥500	Pass
	19	774.00		
	39	772.00		

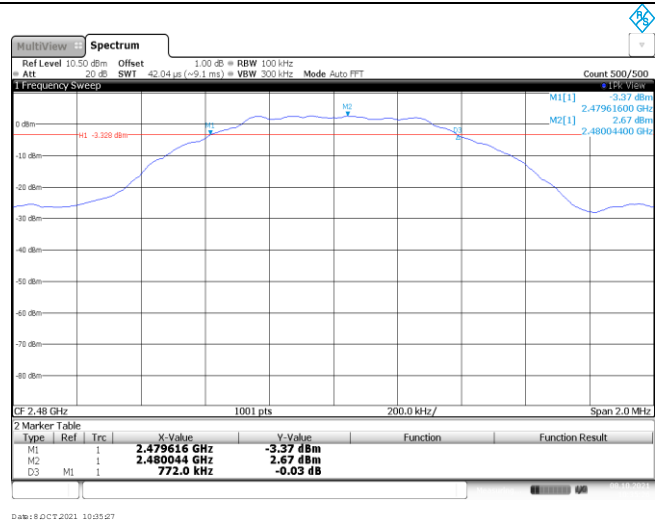
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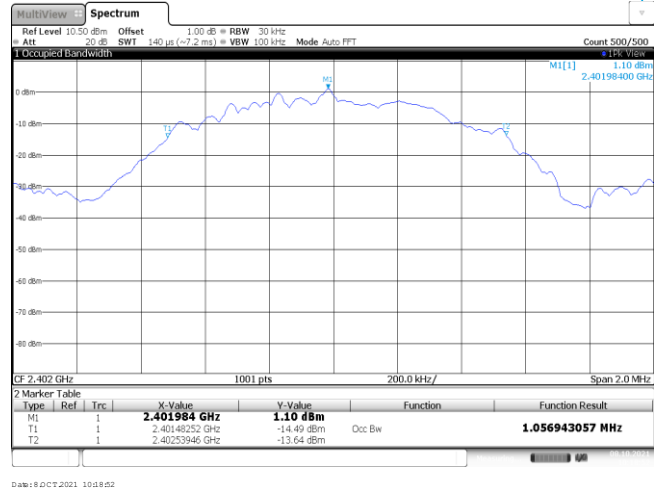
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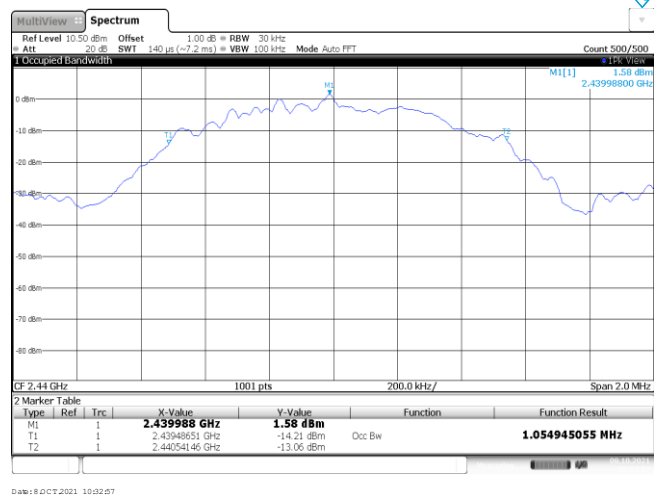
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.06	-	Pass
	19	1.06		
	39	1.06		

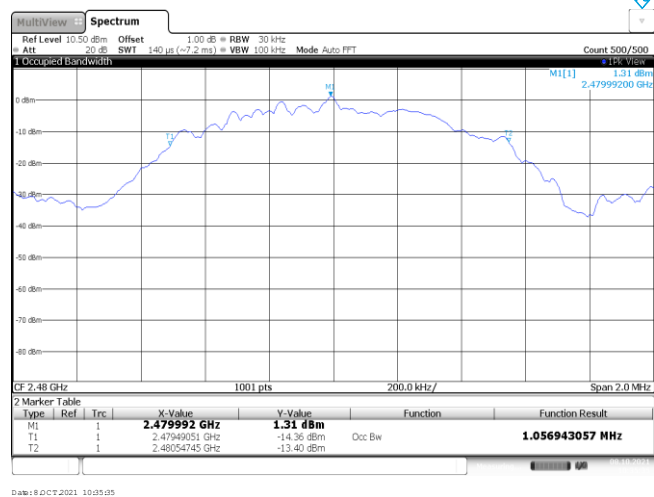
CH00



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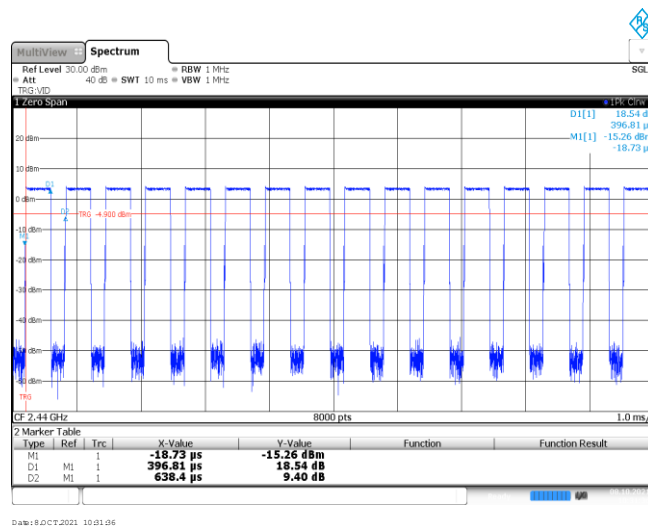


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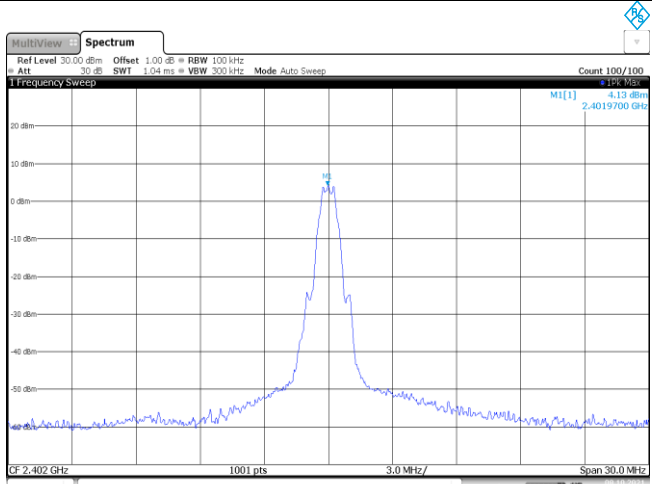
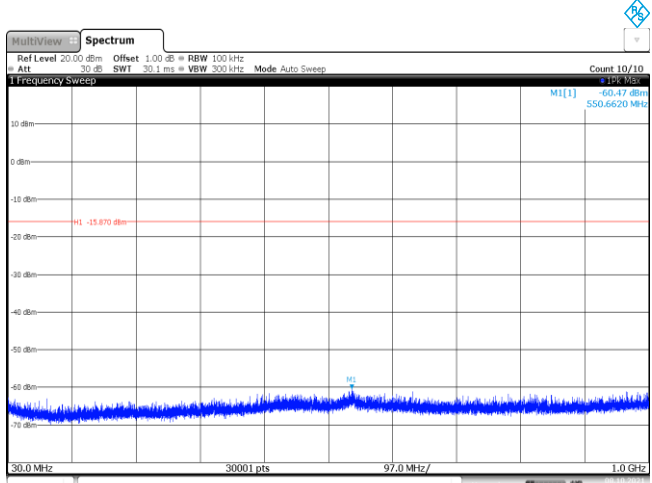
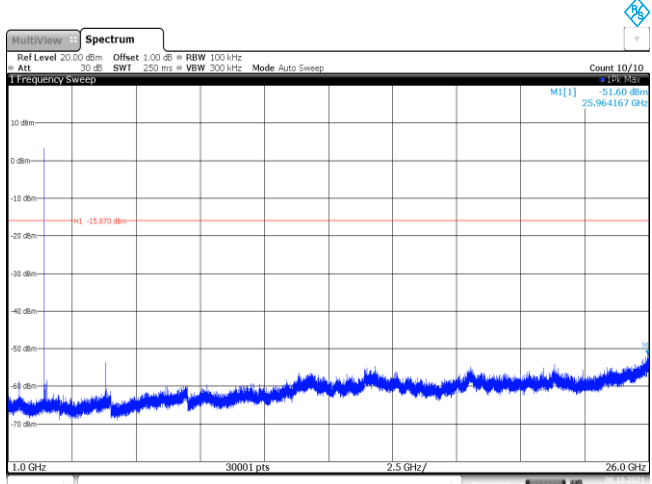
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.40	0.64	62.5%	2.5

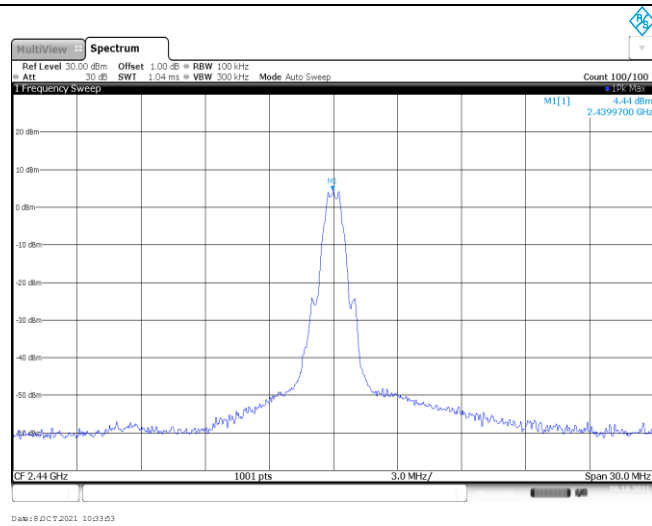


Appendix F: Band edge and Spurious Emissions (conducted)

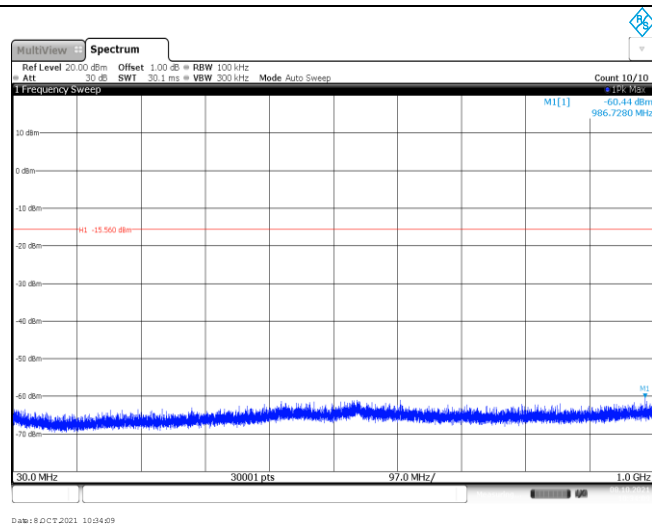
Test Item:	Band edge																																										
CH00	<div><div><div><div><div>MultiView</div><div>Spectrum</div><div><div>Ref Level 10.50 dBm</div><div>Offset 1.00 dB BW 100 kHz</div><div>Att 20 dB</div><div>SWT 1.05 ms VBW 300 kHz</div><div>Mode Auto Sweep</div></div><div>Count 300/300</div><div>1 Hz</div><div>Frequency Sweep</div><div><div>0 dBm</div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div><div>-80 dBm</div></div><div><div>2.31 GHz</div><div>1001 pts</div><div>9.5 MHz/</div><div>2.405 GHz</div></div><div><div>M1</div><div>-16.190 dBm</div></div><div><div>M1[1]</div><div>2.402010 GHz</div><div>3.81 dBm</div></div><div><div>M2[1]</div><div>-49.78 dBm</div></div><div><div>M3</div><div>2.400000 kHz</div></div></div><div><table><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><tr><td>M1</td><td>1</td><td></td><td>2.40201 GHz</td><td>3.81 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-49.78 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-70.83 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-72.95 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-49.93 dBm</td><td></td><td></td></tr></table></div><div>Date: 8 OCT 2021 10:20:37</div></div></div></div>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	3.81 dBm			M2	1		2.4 GHz	-49.78 dBm			M3	1		2.39 GHz	-70.83 dBm			M4	1		2.31 GHz	-72.95 dBm			M5	1		2.399965 GHz	-49.93 dBm		
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M4	1		2.483522 GHz	-51.12 dBm																																							

Test Item:	SE
CH00 Reference level	 <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] -4.13 dBm 2.4019700 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 8 OCT 2021 10:20:46</p>
CH00 30MHz~1000MHz	 <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] -60.47 dBm 550.6620 MHz H1 -15.870 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 8 OCT 2021 10:21:02</p>
CH00 1GHz~26GHz	 <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] -51.60 dBm 25.964167 GHz H1 -15.870 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 8 OCT 2021 10:21:28</p>

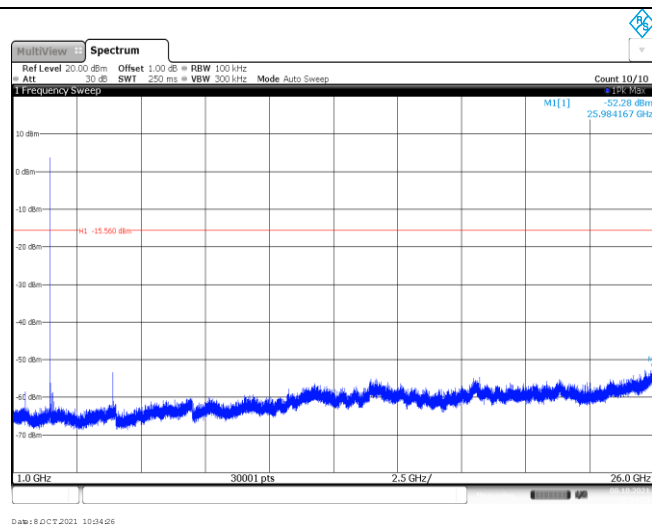
CH19
Reference level

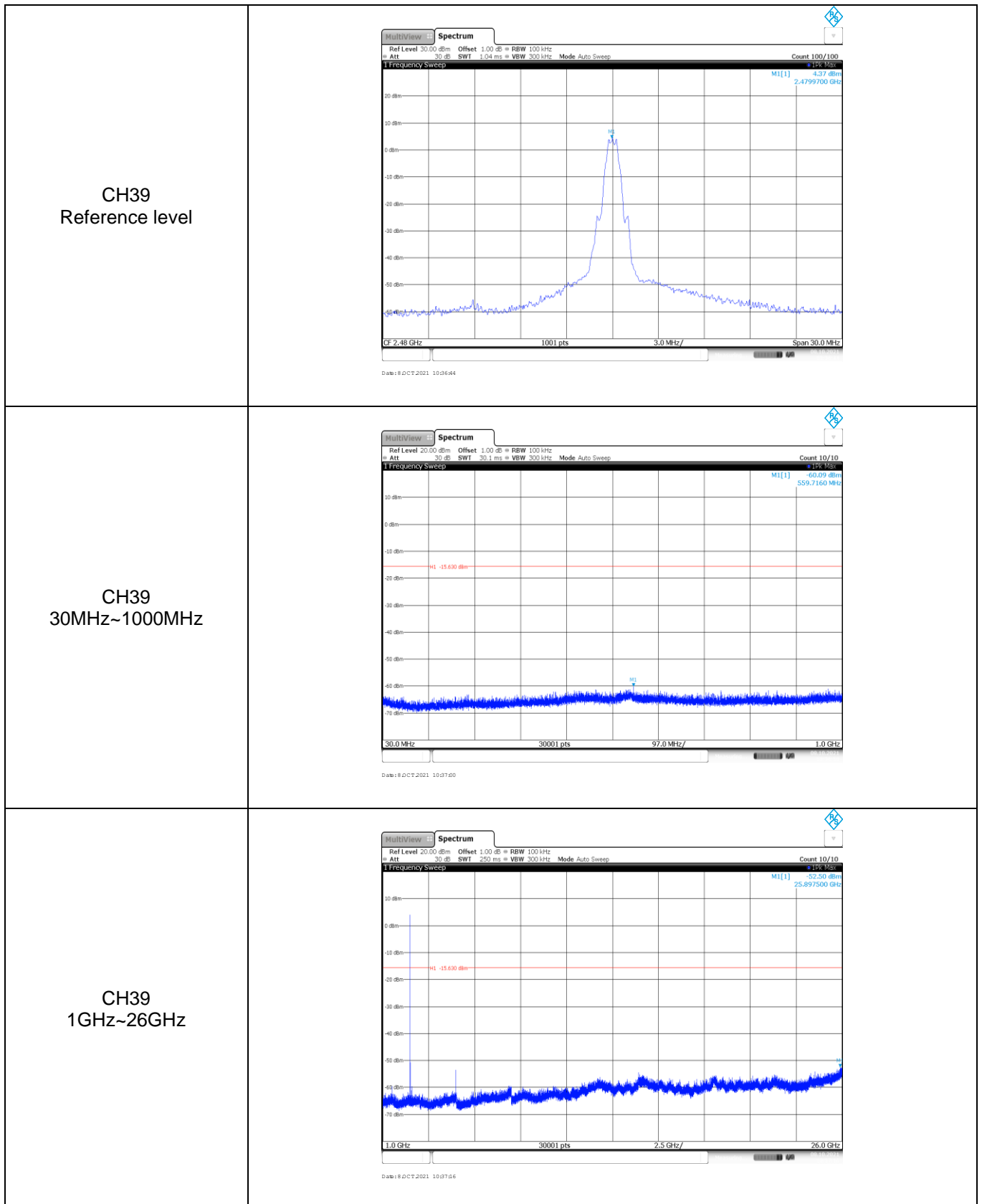


CH19
30MHz~1000MHz



CH19
1GHz~26GHz





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