

APPENDIX REPORT

Project No.	SHT2010047501EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20100475001	Model No.	WeWalk
Start test date	2020/11/16	Finish date	2020/11/16
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng Feng	Auditor	Xiaodong Zheo

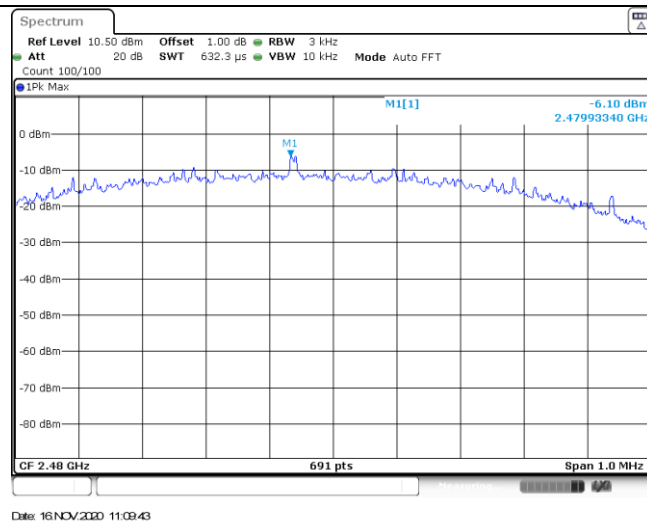
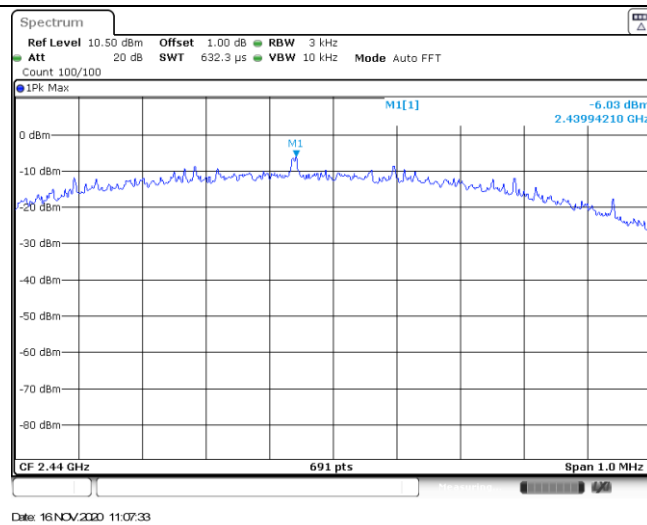
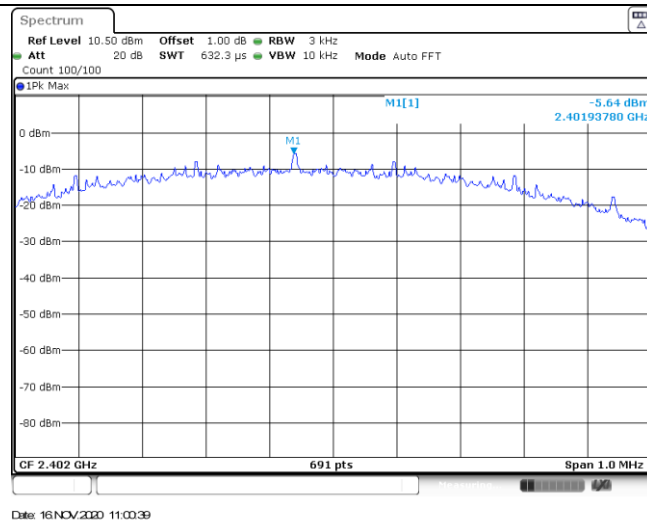
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Peak Output Power

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	3.20	3.19	≤ 30.00	Pass
	19	2.75	2.73		
	39	2.36	2.35		

Appendix B: Power Spectral Density

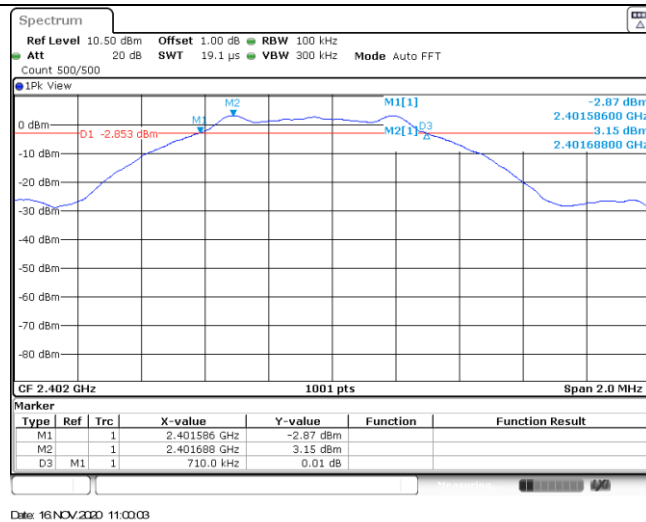
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-5.64	≤8.00	Pass
	19	-6.03		
	39	-6.10		



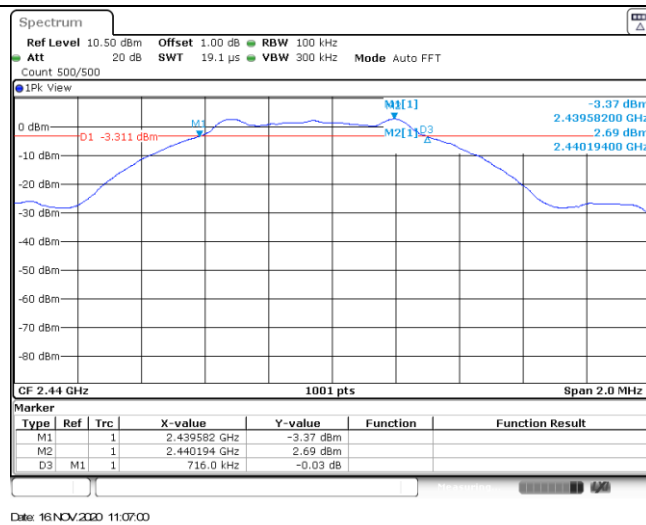
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	710.00	≥500	Pass
	19	716.00		
	39	738.00		

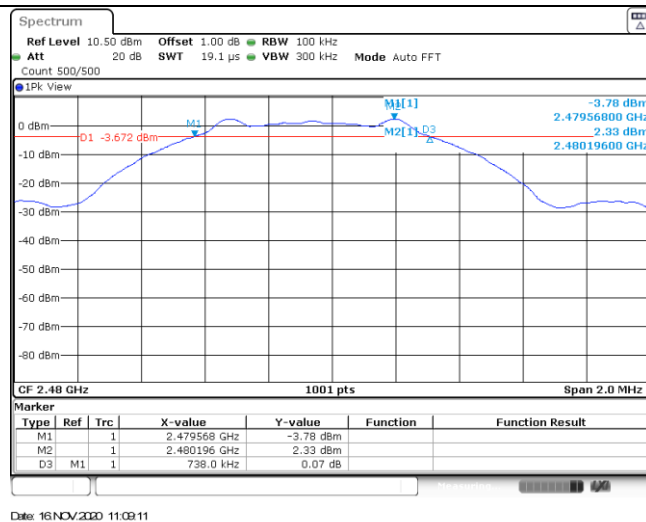
CH00



CH19



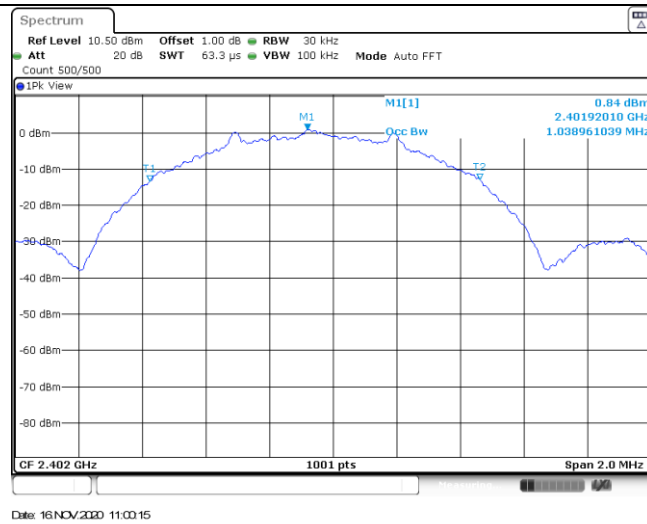
CH39



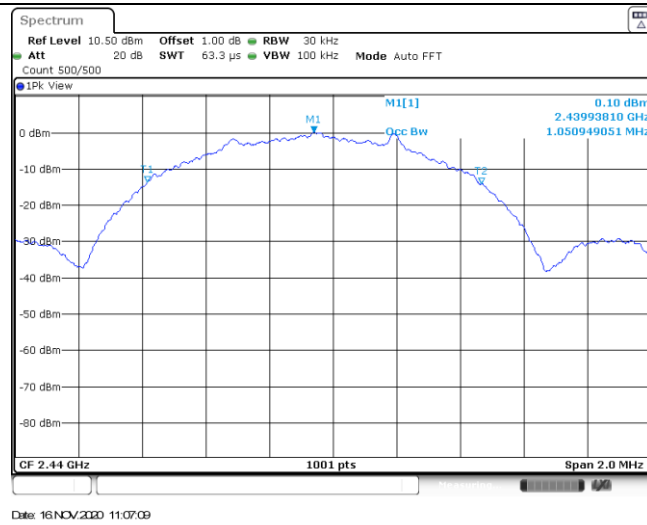
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.04	-	Pass
	19	1.05		
	39	1.06		

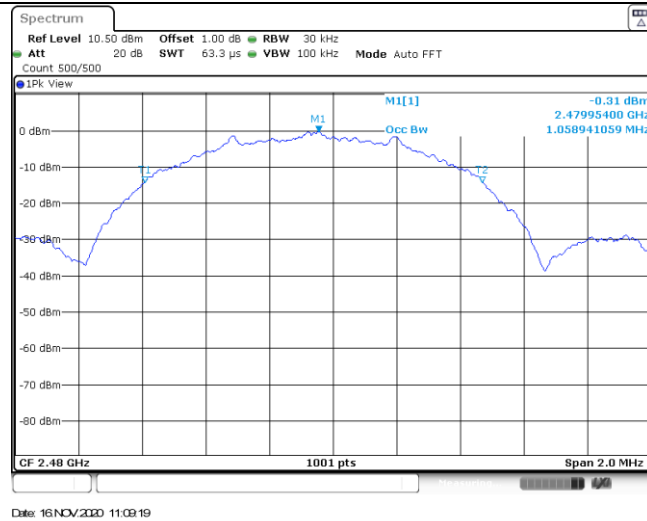
CH00



CH19

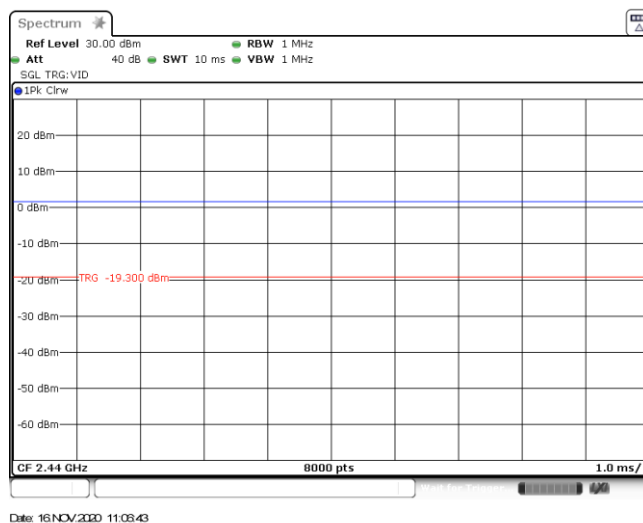


CH39

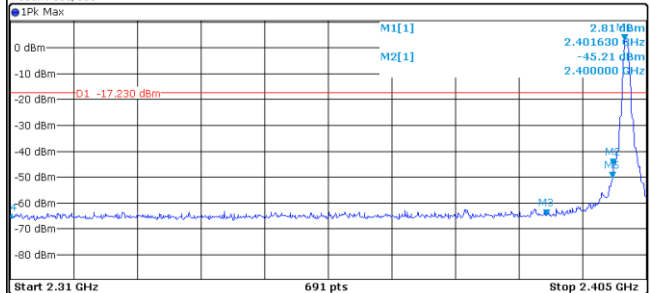
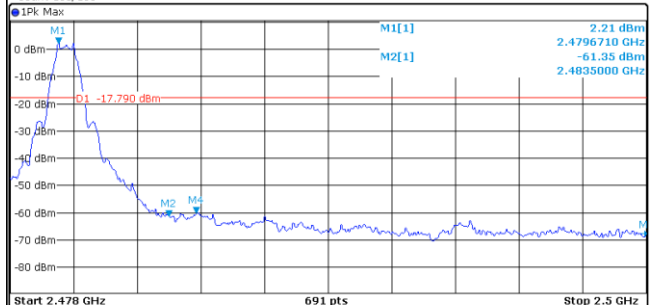


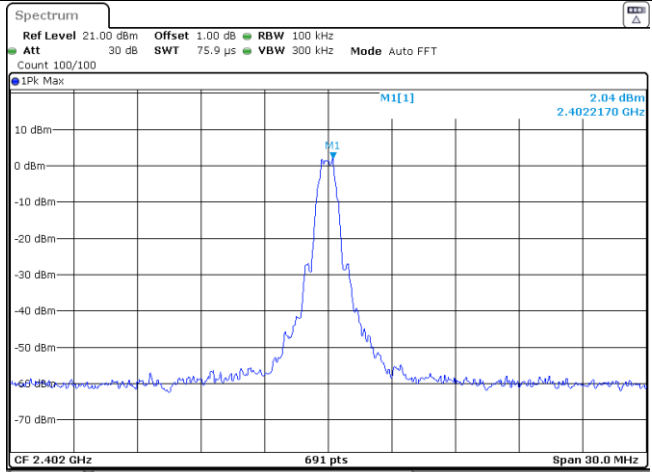
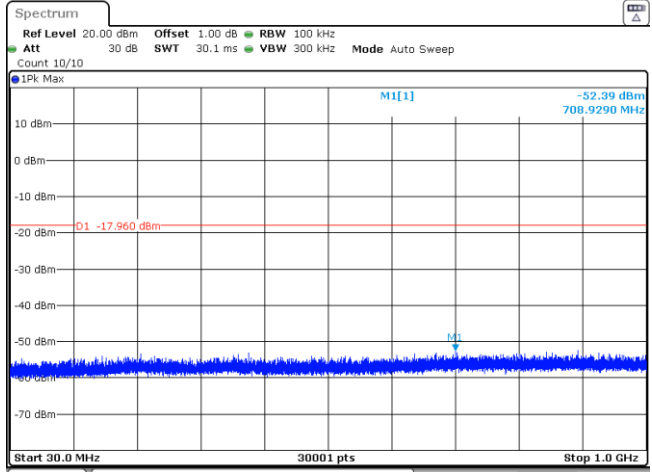
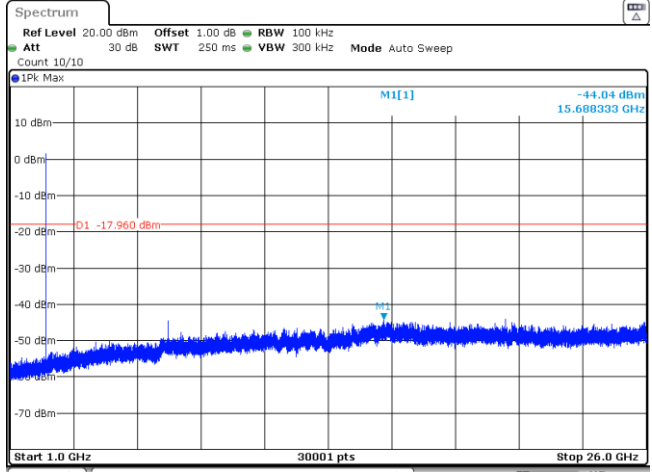
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	1.00	1.00	100%	1.0

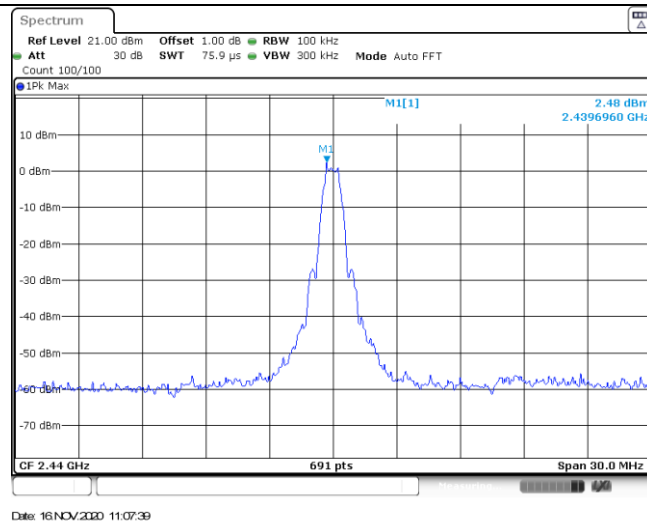


Appendix F: Band edge and Spurious Emissions (conducted)

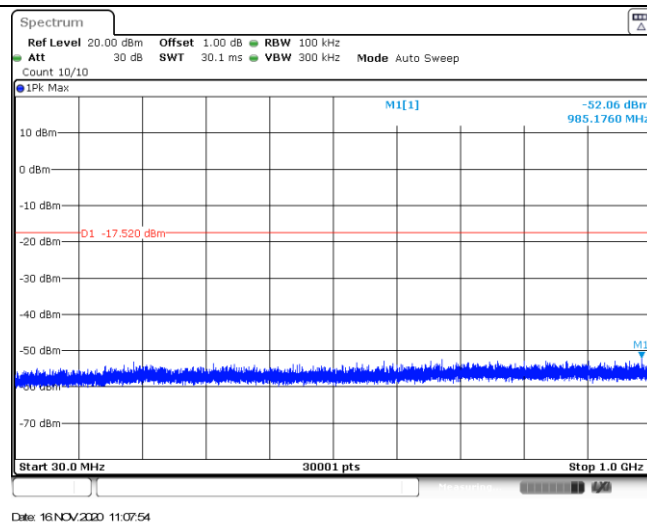
Test Item:	Band edge																																																																																								
CH00	Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300 1Pk Max <table><tr><th>Marker</th><th>Type</th><th>Ref</th><th>Trc</th><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></td><td>2.40163 GHz</td><td>2.81 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td></td><td>2.4 GHz</td><td>-45.21 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td></td><td>2.39 GHz</td><td>-64.79 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td></td><td>2.31 GHz</td><td>-65.16 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td></td><td>2.399906 GHz</td><td>-50.37 dBm</td><td></td><td></td></tr></table> Start 2.31 GHz 691 pts Stop 2.405 GHz Date: 16 NOV 2020 11:03:49 Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 100 kHz Att 20 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max <table><tr><th>Marker</th><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></td><td>2.479671 GHz</td><td>2.21 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td></td><td>2.4835 GHz</td><td>-61.35 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td></td><td>2.5 GHz</td><td>-67.43 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td></td><td>2.4844406 GHz</td><td>-60.11 dBm</td><td></td><td></td></tr></table> Start 2.478 GHz 691 pts Stop 2.5 GHz Date: 16 NOV 2020 11:03:53	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.40163 GHz	2.81 dBm			M2	1			2.4 GHz	-45.21 dBm			M3	1			2.39 GHz	-64.79 dBm			M4	1			2.31 GHz	-65.16 dBm			M5	1			2.399906 GHz	-50.37 dBm			Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.479671 GHz	2.21 dBm			M2	1			2.4835 GHz	-61.35 dBm			M3	1			2.5 GHz	-67.43 dBm			M4	1			2.4844406 GHz	-60.11 dBm		
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Test Item:	SE
CH00 Reference level	 Spectrum Ref Level 21.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100 1Pk Max 2.04 dBm 2.4022170 GHz CF 2.402 GHz 691 pts Span 30.0 MHz Date: 16 NOV 2020 11:00:57
CH00 30MHz~1000MHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max -52.39 dBm 708.9290 MHz Start 30.0 MHz 30001 pts Stop 1.0 GHz Date: 16 NOV 2020 11:01:13
CH00 1GHz~26GHz	 Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 1Pk Max -44.04 dBm 15.688333 GHz Start 1.0 GHz 30001 pts Stop 26.0 GHz Date: 16 NOV 2020 11:01:29

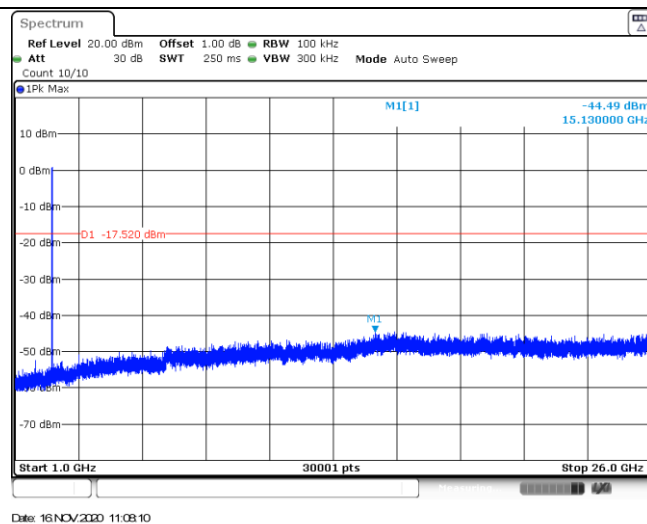
CH19
Reference level



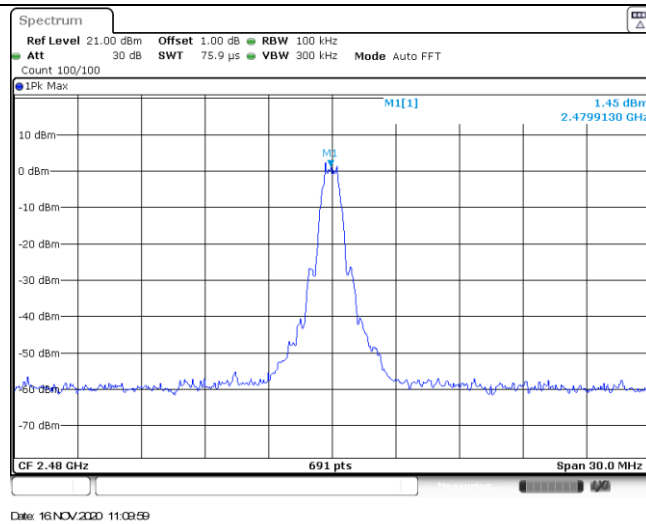
CH19
30MHz~1000MHz



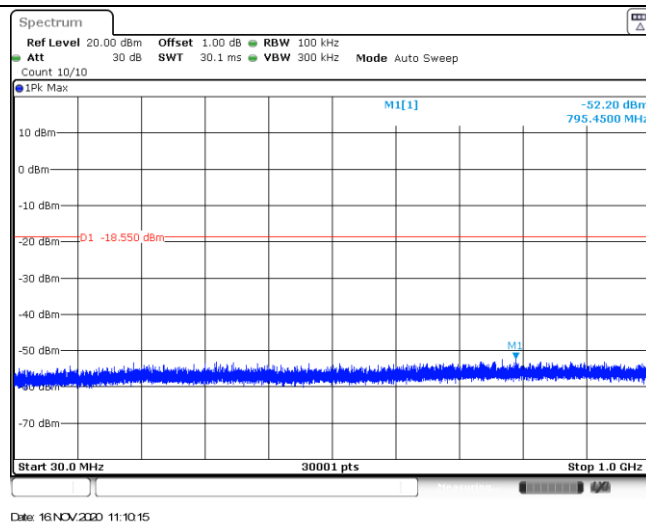
CH19
1GHz~26GHz



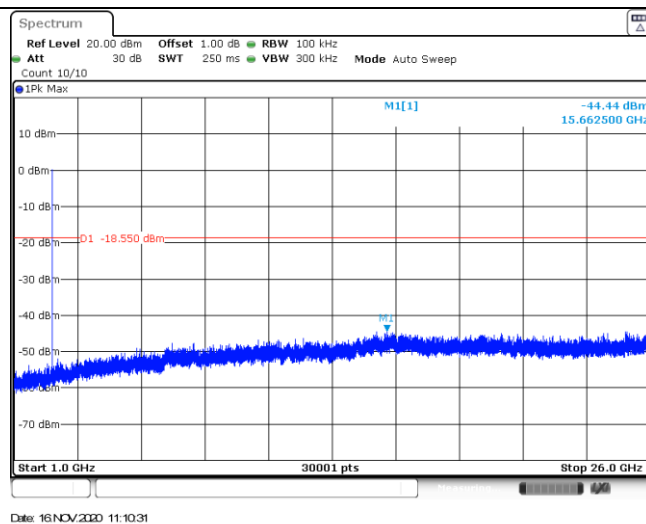
CH39
Reference level



CH39
30MHz~1000MHz



CH39
1GHz~26GHz



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