

APPENDIX REPORT

Project No.	SHT2204014902EW		
Test sample No.	YPHT22040149001	Model No.	PC2.4G
Start test date	2022-09-07	Finish date	2022-09-15
Temperature	25.6°C	Humidity	32%
Test Engineer	Xiaoxiao Li	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

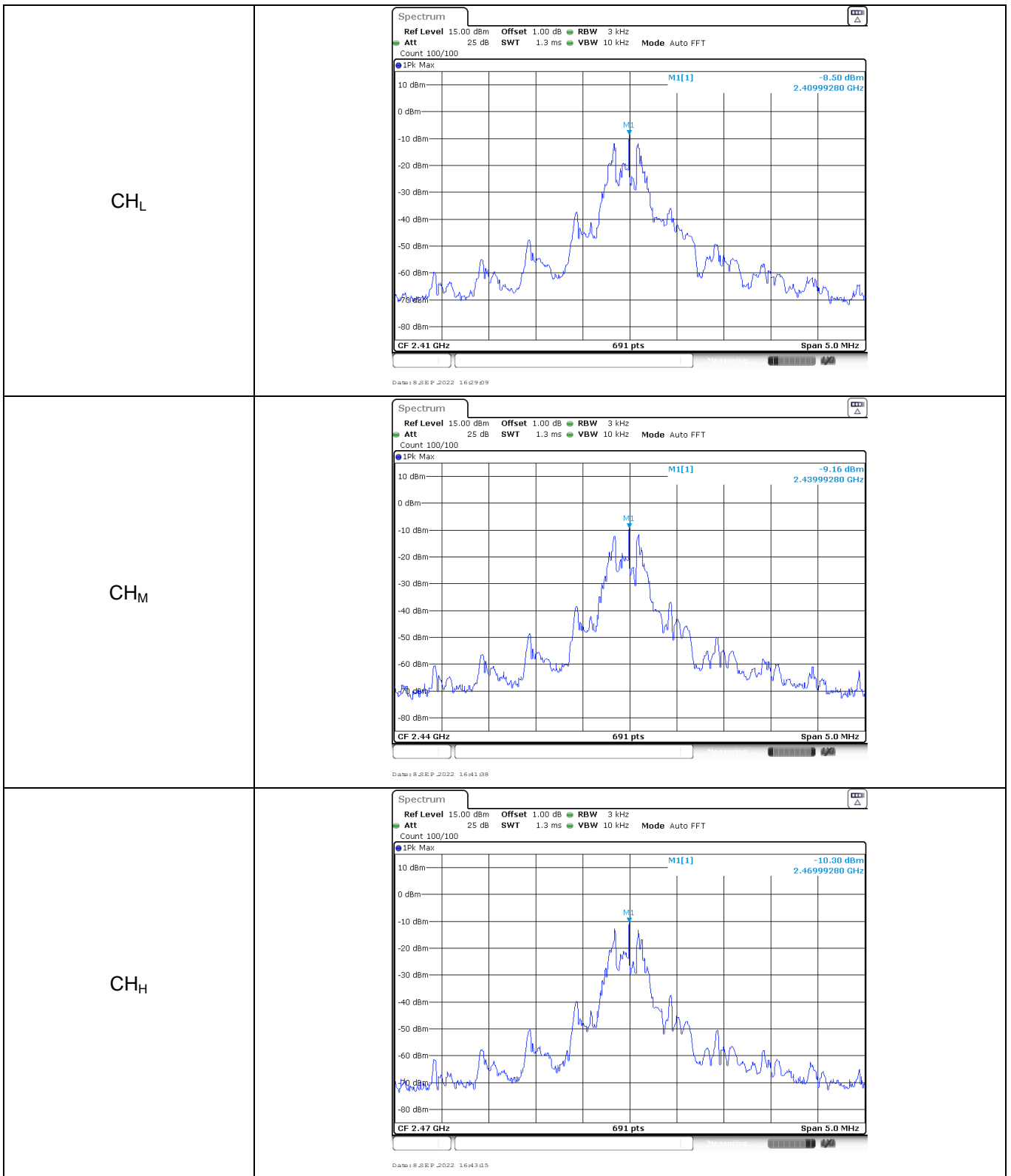
Appendix A: Peak Output Power

Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
CH _L	-2.63	-2.64	≤ 30.00	Pass
CH _M	-3.04	-3.07		
CH _H	-4.18	-4.20		

<p>CH_L</p>	<p>Spectrum Ref Level 15.00 dBm Offset 1.00 dB RBW 5 MHz Att 25 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 500/500 IPK View M1[1] -2.63 dBm 2.4097400 GHz CF 2.41 GHz 691 pts Span 10.0 MHz Date: 15 SEP 2022 13:25:12</p>
<p>CH_M</p>	<p>Spectrum Ref Level 15.00 dBm Offset 1.00 dB RBW 5 MHz Att 25 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 500/500 IPK View M1[1] -3.04 dBm 2.4400000 GHz CF 2.44 GHz 691 pts Span 10.0 MHz Date: 15 SEP 2022 13:27:09</p>
<p>CH_H</p>	<p>Spectrum Ref Level 15.00 dBm Offset 1.00 dB RBW 5 MHz Att 25 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 500/500 IPK View M1[1] -4.18 dBm 2.4696820 GHz CF 2.47 GHz 691 pts Span 10.0 MHz Date: 15 SEP 2022 13:28:25</p>

Appendix B: Power Spectral Density

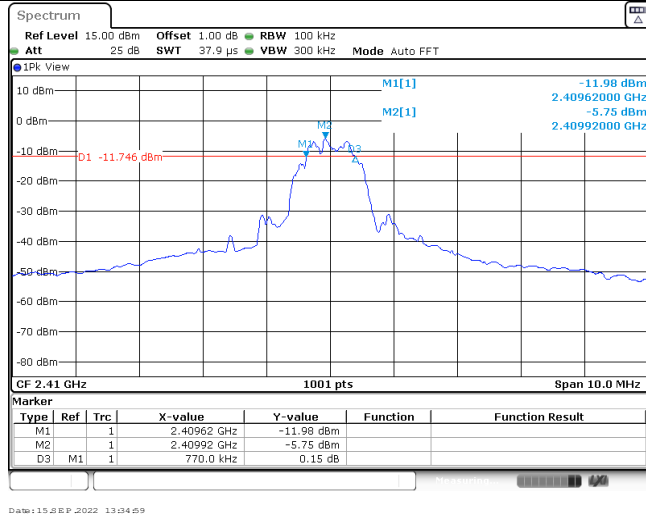
Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
CH _L	-8.50	≤8.00	Pass
CH _M	-9.16		
CH _H	-10.30		



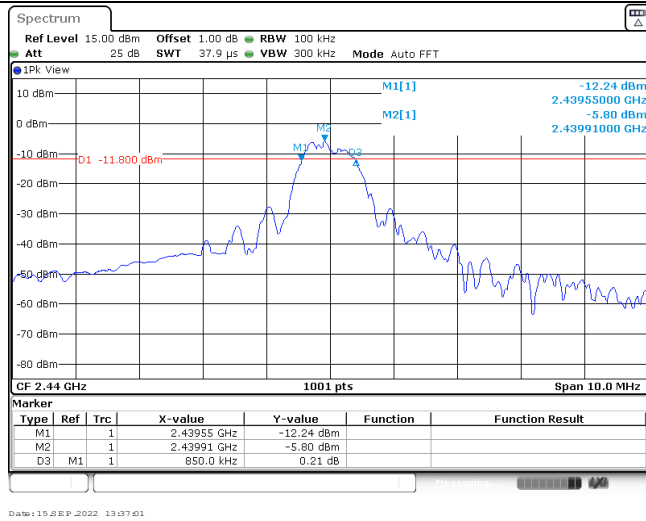
Appendix C: 6dB bandwidth

Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
CH _L	770.00	≥500	PASS
CH _M	850.00		
CH _H	810.00		

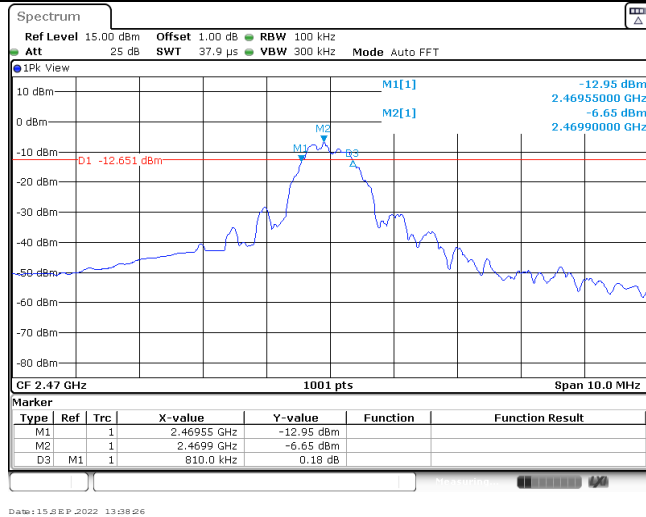
CH_L



CH_M

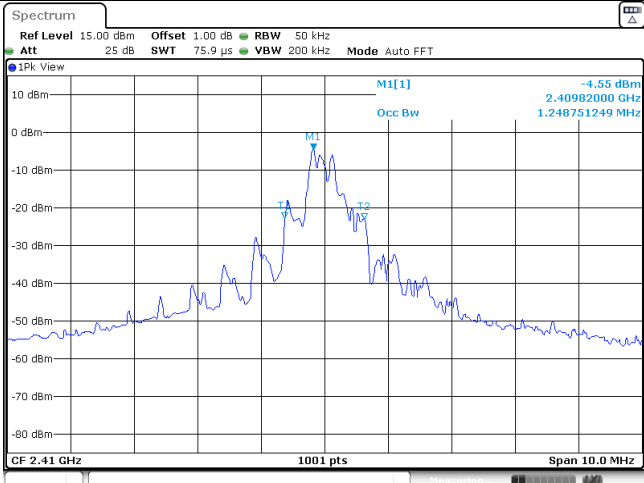
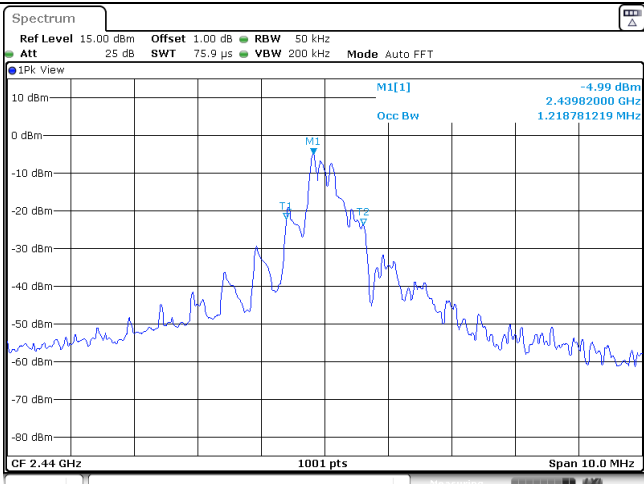



CH_H



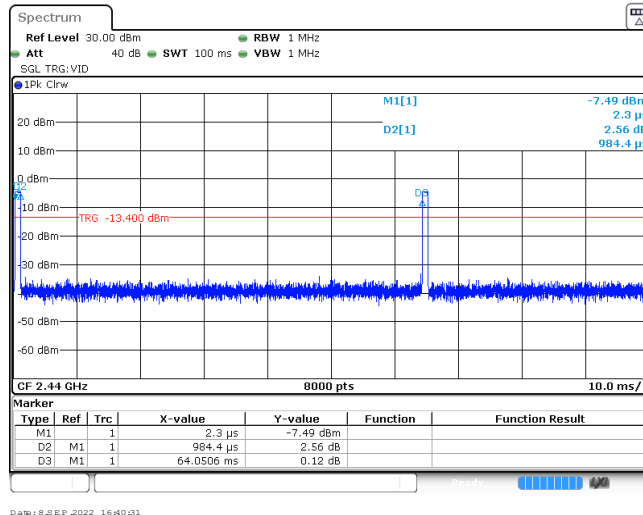
Appendix D: 99% Occupied Bandwidth

Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
CH _L	1.25	-	Pass
CH _M	1.22		
CH _H	1.22		

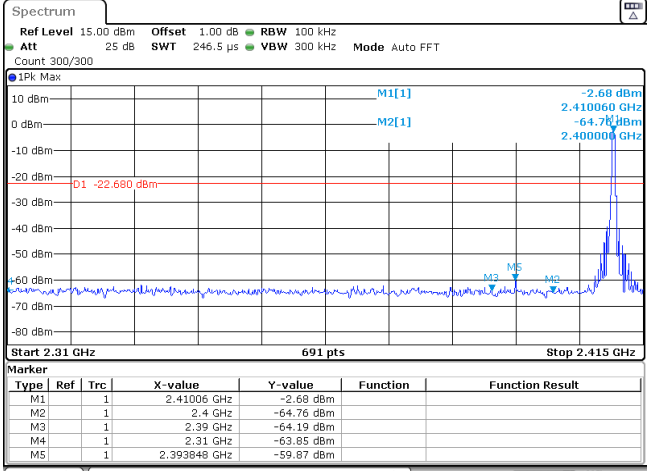
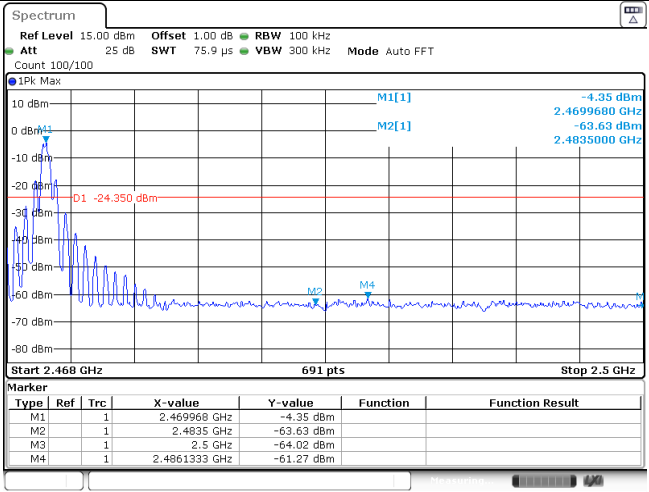
<p>CH_L</p>	 <p>Spectrum</p> <p>Ref Level 15.00 dBm Offset 1.00 dB RBW 50 kHz Att 25 dB SWT 75.9 μs VBW 200 kHz Mode Auto FFT</p> <p>1Pk View</p> <p>M1[1] -4.55 dBm 2.40982000 GHz 1.248751249 MHz</p> <p>Occ Bw</p> <p>CF 2.41 GHz 1001 pts Span 10.0 MHz</p> <p>Date: 9 SEP 2022 09:43:05</p>
<p>CH_M</p>	 <p>Spectrum</p> <p>Ref Level 15.00 dBm Offset 1.00 dB RBW 50 kHz Att 25 dB SWT 75.9 μs VBW 200 kHz Mode Auto FFT</p> <p>1Pk View</p> <p>M1[1] -4.99 dBm 2.43982000 GHz 1.218781219 MHz</p> <p>Occ Bw</p> <p>CF 2.44 GHz 1001 pts Span 10.0 MHz</p> <p>Date: 9 SEP 2022 09:47:13</p>
<p>CH_H</p>	 <p>Spectrum</p> <p>Ref Level 15.00 dBm Offset 1.00 dB RBW 50 kHz Att 25 dB SWT 75.9 μs VBW 200 kHz Mode Auto FFT</p> <p>1Pk View</p> <p>M1[1] -6.07 dBm 2.46982000 GHz 1.218781219 MHz</p> <p>Occ Bw</p> <p>CF 2.47 GHz 1001 pts Span 10.0 MHz</p> <p>Date: 9 SEP 2022 09:50:49</p>

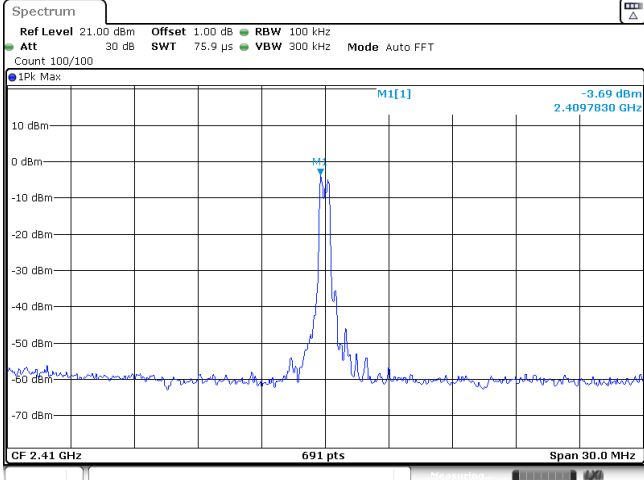
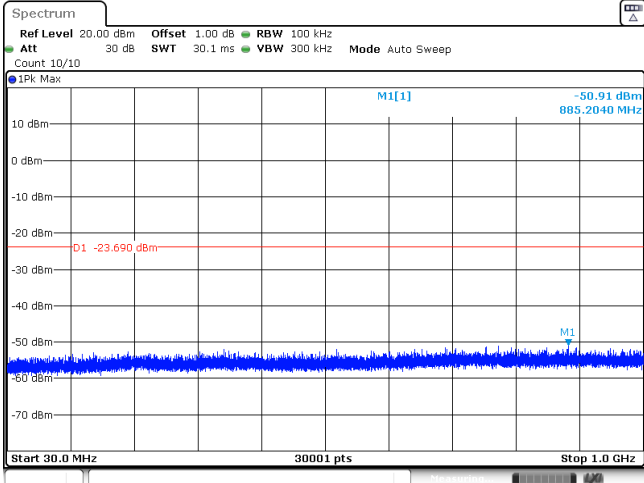
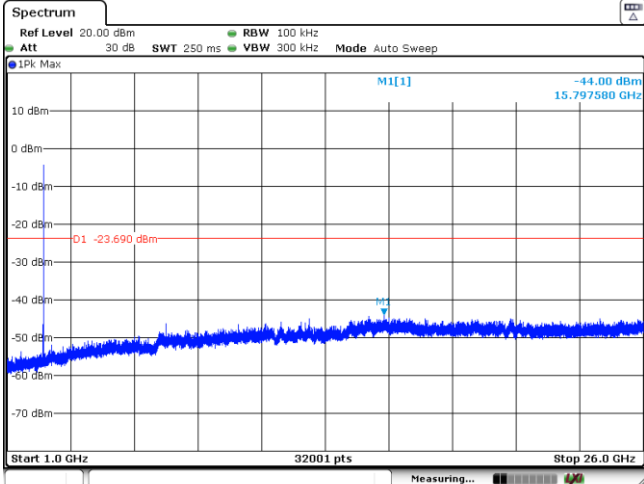
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2440	0.98	64.05	1.5%	1.0

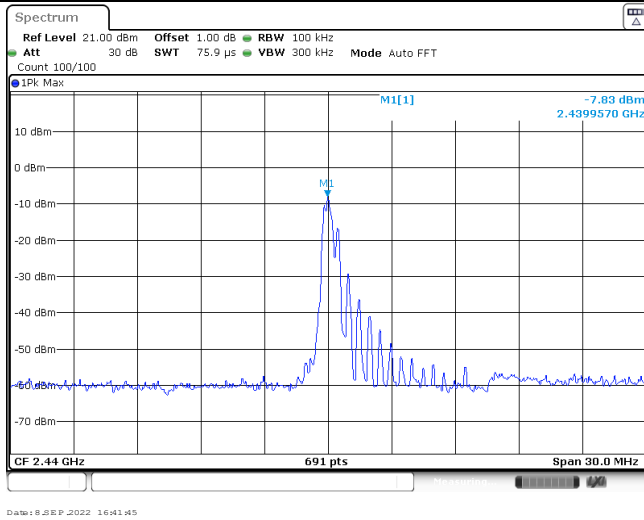


Appendix F: Band edge and Spurious Emissions (conducted)

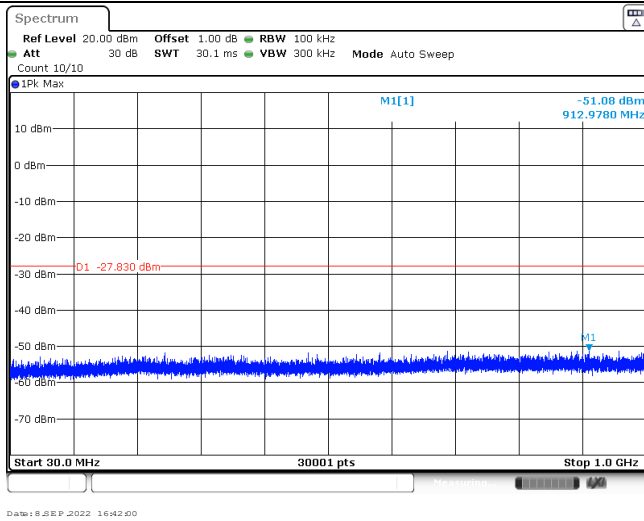
Test Item:	Band edge																																																
<p style="text-align: center; font-size: 24px;">CH_L</p>	 <p>Spectrum Ref Level 15.00 dBm Offset 1.00 dB RBW 100 kHz Att 25 dB SWT 246.5 μs VBW 300 kHz Mode Auto FFT Count 300/300</p> <p>1Pk Max</p> <table border="1"> <thead> <tr> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>2.41006 GHz</td> <td>-2.68 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4 GHz</td> <td>-64.76 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.39 GHz</td> <td>-64.19 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.31 GHz</td> <td>-63.85 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td></td> <td>2.393648 GHz</td> <td>-59.67 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Start 2.31 GHz 691 pts Stop 2.415 GHz</p> <p>Date: 8 SEP 2022 16:29:18</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.41006 GHz	-2.68 dBm			M2	1			2.4 GHz	-64.76 dBm			M3	1			2.39 GHz	-64.19 dBm			M4	1			2.31 GHz	-63.85 dBm			M5	1			2.393648 GHz	-59.67 dBm		
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<p style="text-align: center; font-size: 24px;">CH_H</p>	 <p>Spectrum Ref Level 15.00 dBm Offset 1.00 dB RBW 100 kHz Att 25 dB SWT 75.9 μs VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>2.469968 GHz</td> <td>-4.35 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td></td> <td>2.4835 GHz</td> <td>-63.63 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td></td> <td>2.5 GHz</td> <td>-64.02 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td></td> <td>2.4861333 GHz</td> <td>-61.27 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Start 2.468 GHz 691 pts Stop 2.5 GHz</p> <p>Date: 8 SEP 2022 16:43:24</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.469968 GHz	-4.35 dBm			M2	1			2.4835 GHz	-63.63 dBm			M3	1			2.5 GHz	-64.02 dBm			M4	1			2.4861333 GHz	-61.27 dBm										
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Test Item:	SE
<p>CH_L Reference level</p>	 <p>Spectrum</p> <p>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</p> <p>1PK Max</p> <p>M1[1] -9.69 dBm 2.4097830 GHz</p> <p>CF 2.41 GHz 691 pts Span 30.0 MHz</p> <p>Date: 9 SEP 2022 16:29:24</p>
<p>CH_L 30MHz~1000MHz</p>	 <p>Spectrum</p> <p>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</p> <p>1PK Max</p> <p>M1[1] -50.91 dBm 885.2040 MHz</p> <p>D1 -23.690 dBm</p> <p>M1</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 9 SEP 2022 16:29:39</p>
<p>CH_L 1GHz~26GHz</p>	 <p>Spectrum</p> <p>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</p> <p>1PK Max</p> <p>M1[1] -44.00 dBm 15.797580 GHz</p> <p>D1 -23.690 dBm</p> <p>M1</p> <p>Start 1.0 GHz 32001 pts Stop 26.0 GHz</p> <p>Date: 9 SEP 2022 10:55:45</p>

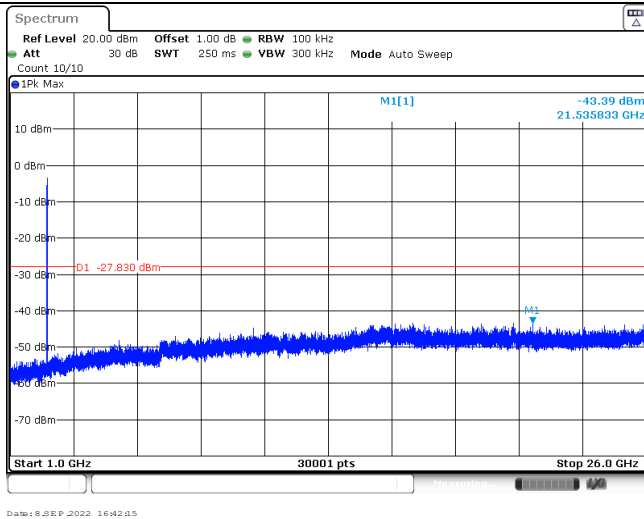
CH_M
Reference level



CH_M
30MHz~1000MHz



CH_M
1GHz~26GHz



<p>CH_H Reference level</p>	
<p>CH_H 30MHz~1000MHz</p>	
<p>CH_H 1GHz~26GHz</p>	

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