

# APPENDIX REPORT

Project No.	SHT2005099304EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT20050993021	Model No.	TE580PD
Start test date	2020/7/6	Finish date	2020/7/6
Temperature	25°C	Humidity	50%
Test Engineer	Jiongsheng.Feng	Auditor	<i>William.wang</i>

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

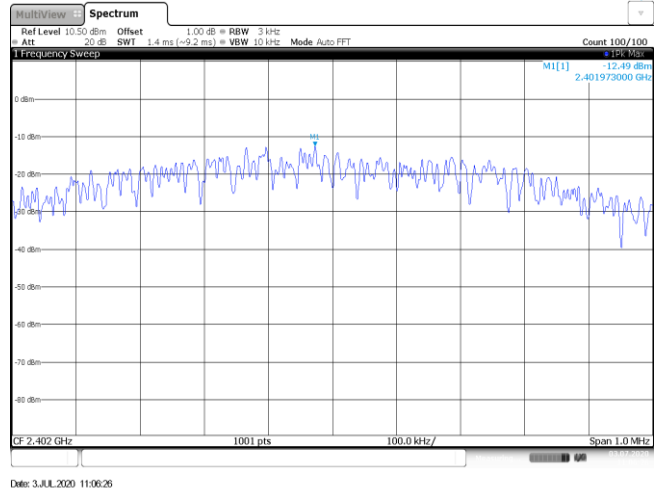
**Appendix A: Peak Output Power**

Type	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
BT-BLE	00	2.81	2.79	≤ 30.00	Pass
	19	1.37	1.35		
	39	-0.59	-0.61		

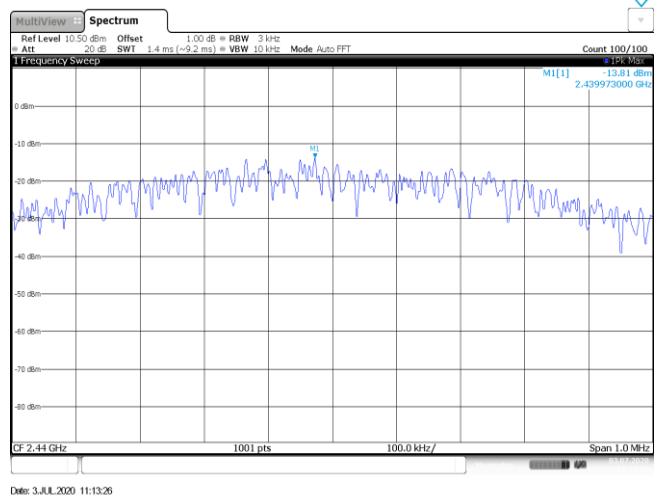
**Appendix B: Power Spectral Density**

Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
BT-BLE	00	-12.49	≤8.00	Pass
	19	-13.81		
	39	-15.32		

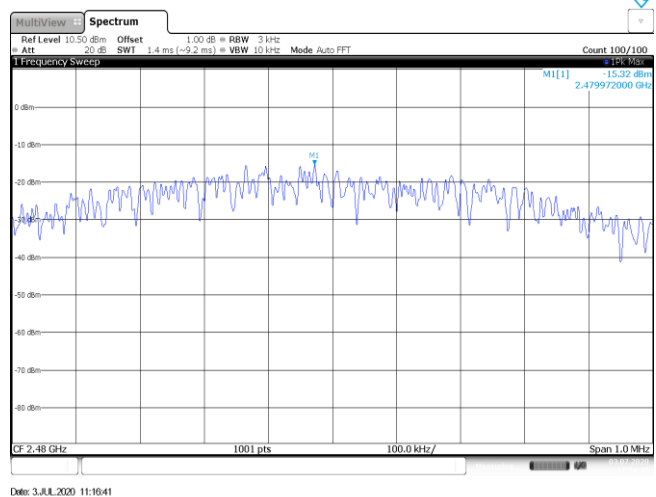
CH00



CH19



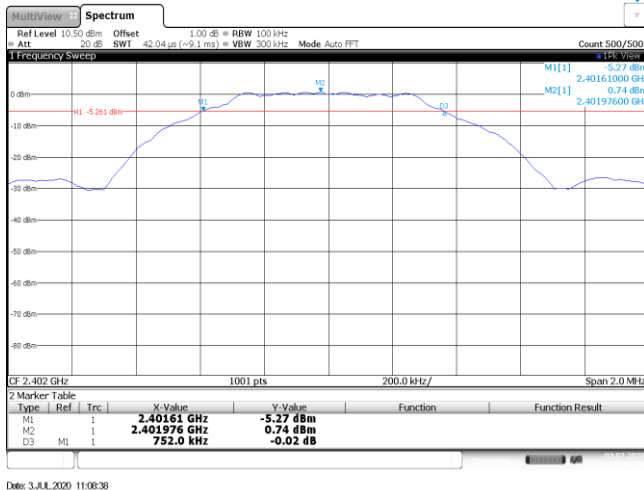
CH39



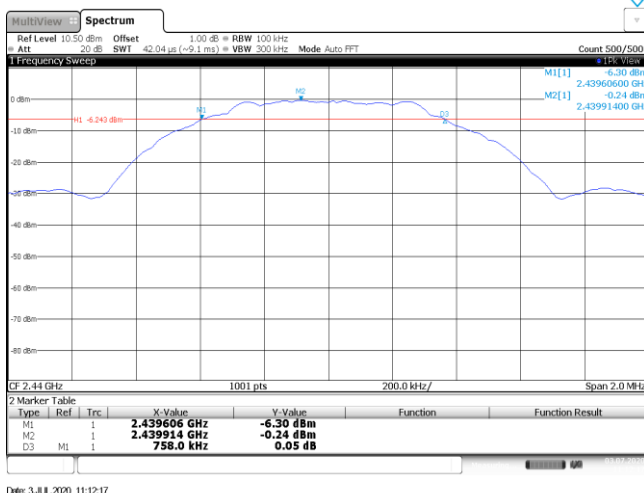
**Appendix C: 6dB bandwidth**

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
BT-BLE	00	752.00	≥500	Pass
	19	758.00		
	39	736.00		

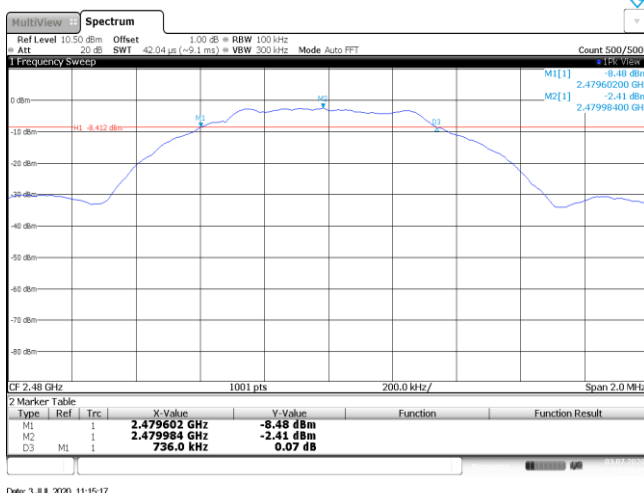
CH00



CH19



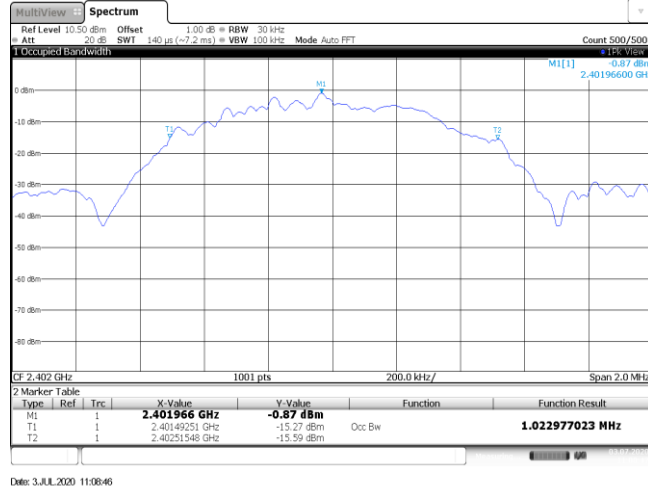
CH39



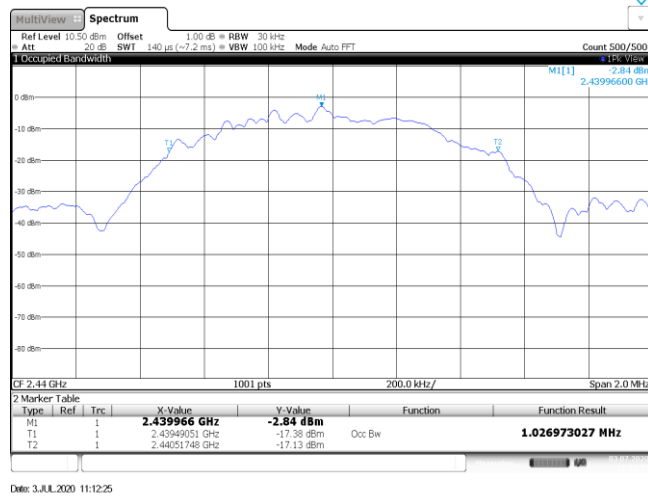
**Appendix D: 99% Occupied Bandwidth**

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
BT-BLE	00	1.02	-	Pass
	19	1.03		
	39	1.02		

CH00



CH19



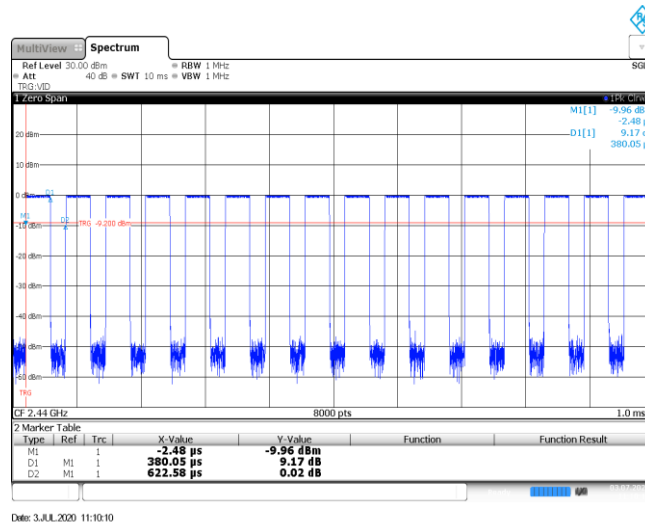
CH39



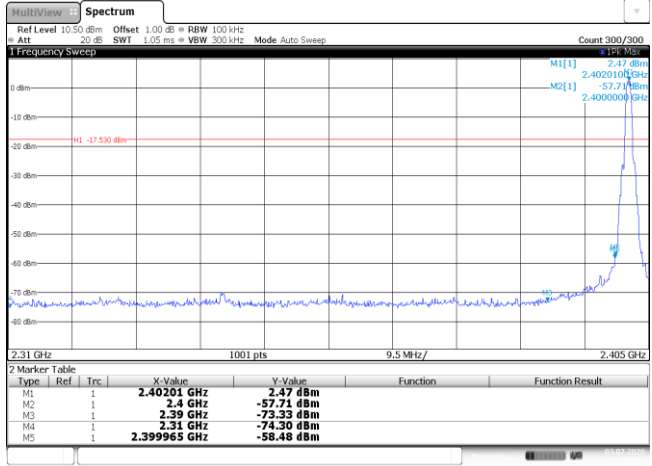
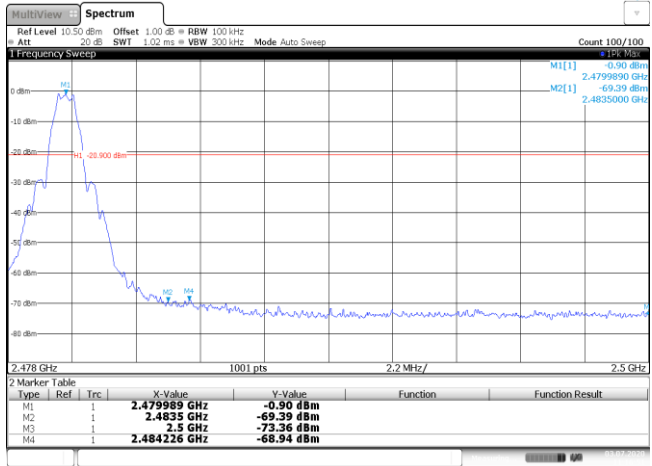


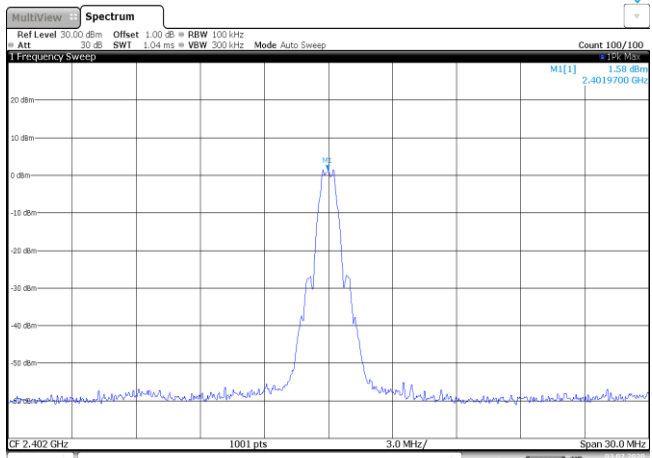
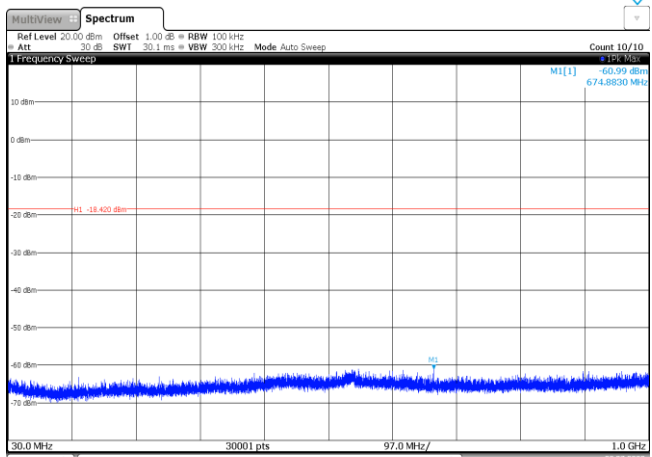
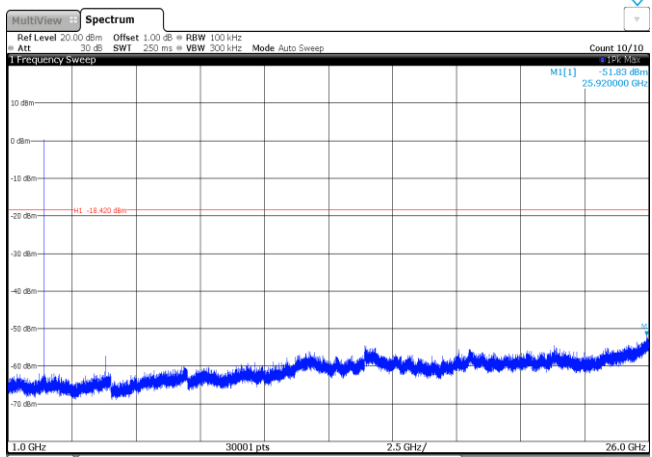
### Appendix E: Duty cycle

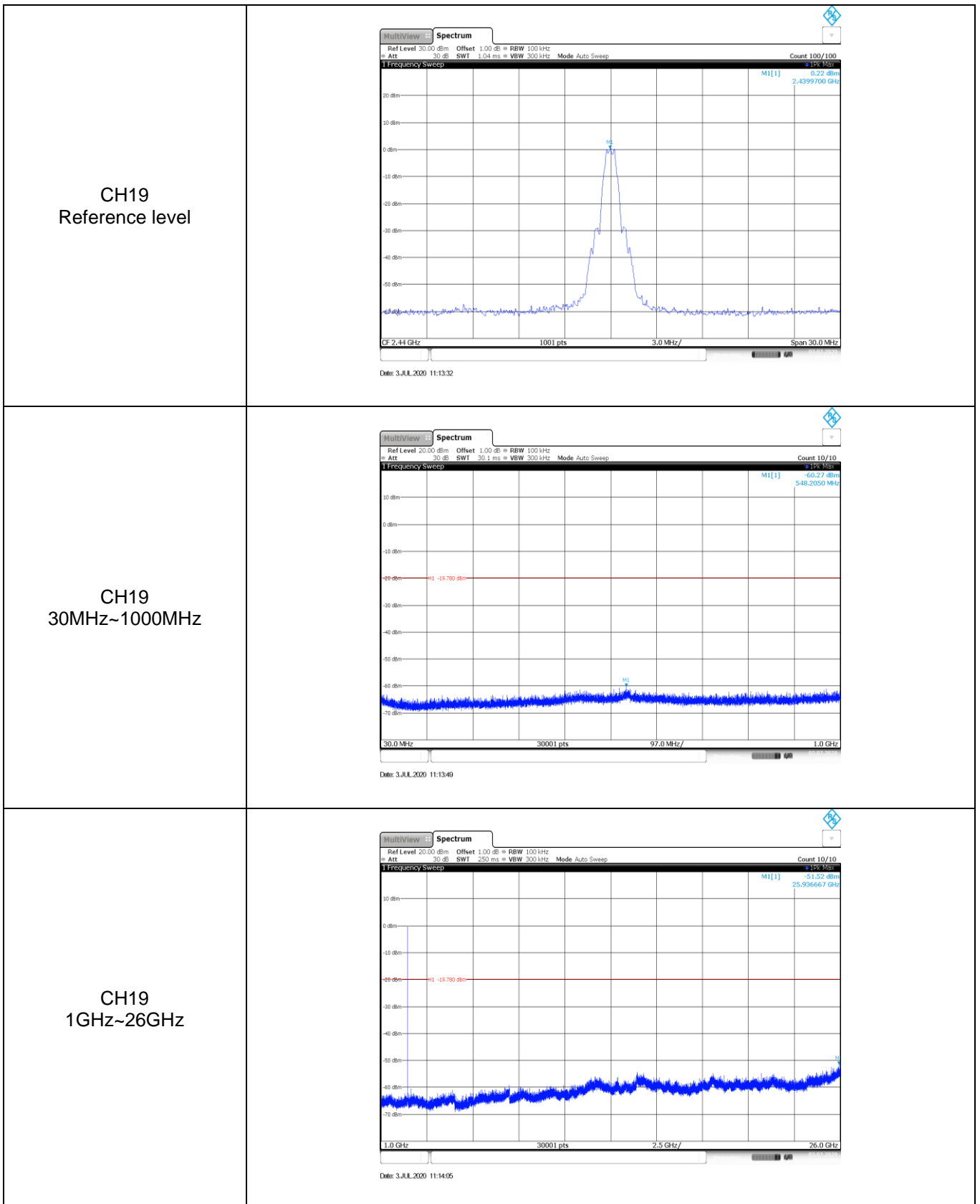
Test Frequency (MHz)	T <sub>on</sub> time for single burst (ms)	T <sub>period</sub> (ms)	Duty cycle	1/T <sub>on</sub> time (kHz)
2440	0.38	0.62	61.3%	2.6



### Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge																																										
<p style="text-align: center;">CH00</p>	 <p><b>2 Marker Table</b></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>2.47 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-57.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-73.33 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-74.30 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-58.48 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 3.JUL.2020 11:06:36</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	2.47 dBm			M2	1		2.4 GHz	-57.71 dBm			M3	1		2.39 GHz	-73.33 dBm			M4	1		2.31 GHz	-74.30 dBm			M5	1		2.399965 GHz	-58.48 dBm		
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Test Item:	SE
<p>CH00 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 1.20 dBm 2.4019700 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 3.JUL.2020 11:06:43</p>
<p>CH00 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -65.59 dBm 674.8830 MHz M1 -18.400 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 3.JUL.2020 11:06:58</p>
<p>CH00 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -51.83 dBm 25.920000 GHz M1 -18.400 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 3.JUL.2020 11:07:15</p>



<p>CH39 Reference level</p>	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz          Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100          Frequency Sweep          M1[1] -0.90 dBm          2.4799700 GHz          CF 2.48 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz          Date: 3.JUL.2020 11:16:57</p>
<p>CH39 30MHz~1000MHz</p>	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz          Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10          Frequency Sweep          M1[1] -59.76 dBm          536.7270 MHz          -20.900 dBm          30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz          Date: 3.JUL.2020 11:17:13</p>
<p>CH39 1GHz~26GHz</p>	<p>MultiView Spectrum          Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz          Att 30 dB SWI 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10          Frequency Sweep          M1[1] -52.58 dBm          25.969167 GHz          -20.900 dBm          1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz          Date: 3.JUL.2020 11:17:29</p>

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