

APPENDIX REPORT

Project No.	SHT2208193404EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT22081934002	Model No.	NeoPix 320
Start test date	2022-08-29	Finish date	2022-08-29
Temperature	25.2°C	Humidity	41%
Test Engineer	Xiaoxiao Li	Auditor	Xiaodong Zhe

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

Test rate	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
1Mbps	00	7.32	7.28	≤ 30.00	Pass
	19	8.59	8.55		
	39	9.08	8.93		
2Mbps	00	7.19	7.16	≤ 30.00	Pass
	19	8.89	8.85		
	39	9.29	9.24		

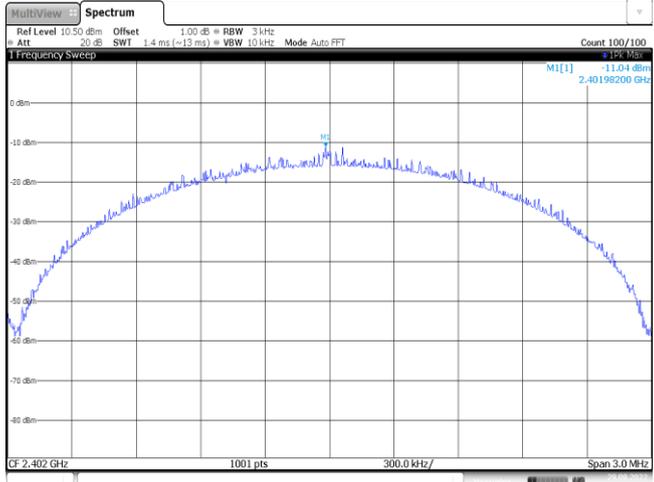
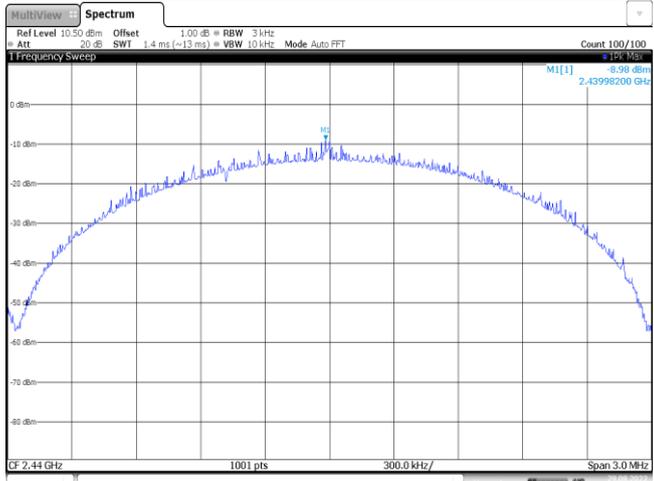
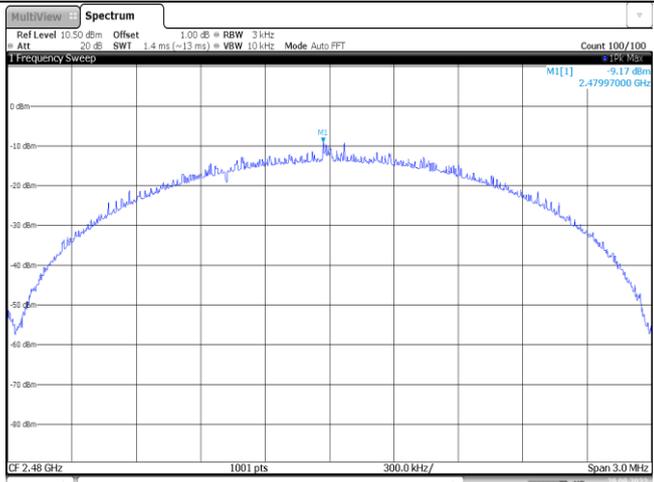
Test rate: 1Mbps	
CH00	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWI 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 7.32 dBm 2.40204000 GHz CF 2.402 GHz 1001 pts 500.0 kHz/pt Span 5.0 MHz Date: 29.AUG.2022 14:04:12</p>
CH19	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWI 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 8.59 dBm 2.44003000 GHz CF 2.44 GHz 1001 pts 500.0 kHz/pt Span 5.0 MHz Date: 29.AUG.2022 14:09:23</p>
CH39	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWI 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 9.08 dBm 2.48008490 GHz CF 2.48 GHz 1001 pts 500.0 kHz/pt Span 5.0 MHz Date: 29.AUG.2022 14:04:01</p>

Test rate: 2Mbps	
CH00	<p> Spectrum plot for CH00. The y-axis represents power in dBm, ranging from -80 to 0. The x-axis represents frequency in GHz, ranging from 2.400 to 2.404. A single peak is observed at 2.40212000 GHz with a power level of 7.19 dBm. The plot includes a grid and various measurement parameters such as Ref Level (10.50 dBm), Offset (1.00 dB), RBW (3 MHz), and Span (10.0 MHz). </p>
CH19	<p> Spectrum plot for CH19. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in GHz, ranging from 2.438 to 2.442. A single peak is observed at 2.44001000 GHz with a power level of 8.89 dBm. The plot includes a grid and various measurement parameters such as Ref Level (20.00 dBm), Offset (1.00 dB), RBW (3 MHz), and Span (10.0 MHz). </p>
CH39	<p> Spectrum plot for CH39. The y-axis represents power in dBm, ranging from -80 to 10. The x-axis represents frequency in GHz, ranging from 2.478 to 2.482. A single peak is observed at 2.48001000 GHz with a power level of 9.29 dBm. The plot includes a grid and various measurement parameters such as Ref Level (20.00 dBm), Offset (1.00 dB), RBW (3 MHz), and Span (10.0 MHz). </p>

Appendix B: Power Spectral Density

Test rate	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-9.09	≤8.00	Pass
	19	-7.57		
	39	-6.87		
2Mbps	00	-11.04	≤8.00	Pass
	19	-8.98		
	39	-9.17		

Test rate: 1Mbps	
CH00	<p>The spectrum plot for CH00 shows a signal at 2.401999000 GHz. The peak level is -9.09 dBm. The plot includes parameters: Ref Level 10.50 dBm, Offset 20 dB, SWF 1.4 ms (-> 2. ms), RBW 3 kHz, VBW 10 kHz, Mode Auto FFT, Count 100/100. The center frequency is 2.402 GHz, span is 1.0 MHz, and resolution is 100.0 kHz.</p>
CH19	<p>The spectrum plot for CH19 shows a signal at 2.439993000 GHz. The peak level is -7.57 dBm. The plot includes parameters: Ref Level 10.50 dBm, Offset 20 dB, SWF 1.4 ms (-> 2. ms), RBW 3 kHz, VBW 10 kHz, Mode Auto FFT, Count 100/100. The center frequency is 2.44 GHz, span is 1.0 MHz, and resolution is 100.0 kHz.</p>
CH39	<p>The spectrum plot for CH39 shows a signal at 2.480027000 GHz. The peak level is -6.87 dBm. The plot includes parameters: Ref Level 10.50 dBm, Offset 20 dB, SWF 1.4 ms (-> 2. ms), RBW 3 kHz, VBW 10 kHz, Mode Auto FFT, Count 100/100. The center frequency is 2.48 GHz, span is 1.0 MHz, and resolution is 100.0 kHz.</p>

Test rate: 2Mbps	
CH00	 <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att -20 dB SWF 1.4 ms (~15 ms) YBW 10 kHz Mode Auto FFT Count 100/100 M[1] -11.04 dBm 2.40198200 GHz CF 2.402 GHz 1001 pts 300.0 kHz/ Span 3.0 MHz Date: 29.AUG.2022 14:47:50</p>
CH19	 <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att -20 dB SWF 1.4 ms (~15 ms) YBW 10 kHz Mode Auto FFT Count 100/100 M[1] -8.98 dBm 2.43998200 GHz CF 2.44 GHz 1001 pts 300.0 kHz/ Span 3.0 MHz Date: 29.AUG.2022 14:51:05</p>
CH39	 <p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att -20 dB SWF 1.4 ms (~15 ms) YBW 10 kHz Mode Auto FFT Count 100/100 M[1] -9.17 dBm 2.47997000 GHz CF 2.48 GHz 1001 pts 300.0 kHz/ Span 3.0 MHz Date: 29.AUG.2022 14:55:09</p>

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	750.00	≥500	Pass
	19	744.00		
	39	750.00		
2Mbps	00	1395.00	≥500	Pass
	19	1385.00		
	39	1264.00		

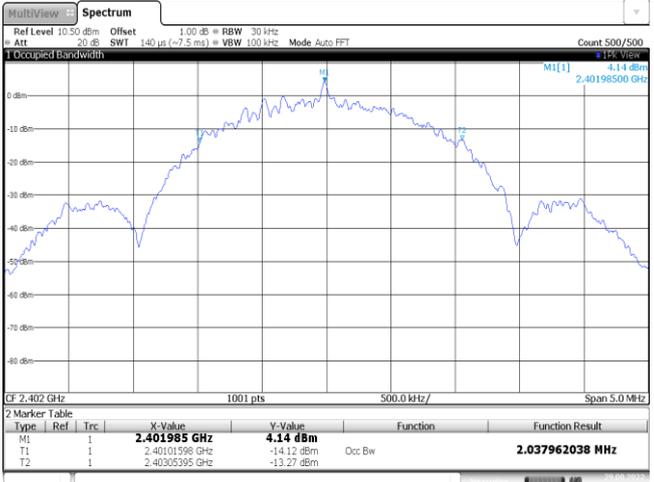
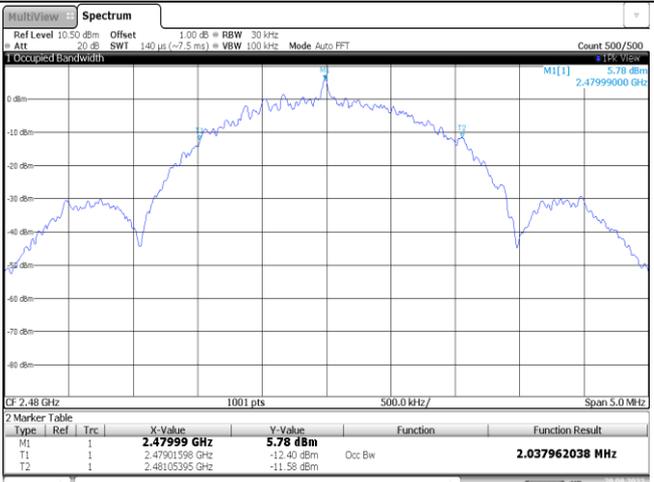
Test rate: 1Mbps																													
CH00	<p>CF 2.402 GHz 1001 pts 200.0 kHz/ Span 2.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.401634 GHz</td> <td>-0.45 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.401978 GHz</td> <td>5.57 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>750.0 kHz</td> <td>-0.07 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 29.AUG.2022 14:02:21</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401634 GHz	-0.45 dBm			M2	1		2.401978 GHz	5.57 dBm			D3	M1	1	750.0 kHz	-0.07 dB		
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CH00	<p>Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz Att 20 dB SWI 41.84 μs (≈7.3 ms) View 500 kHz Mode Auto FFT Count 500/500 1 Frequency Sweep</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>2.40132 GHz</td> <td>-1.89 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.402 GHz</td> <td>4.16 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td></td> <td>1.395 MHz</td> <td>-0.05 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>CF 2.402 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 29.AUG.2022 14:46:20</p>		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40132 GHz	-1.89 dBm			M2	1		2.402 GHz	4.16 dBm			D3	M1		1.395 MHz	-0.05 dB		
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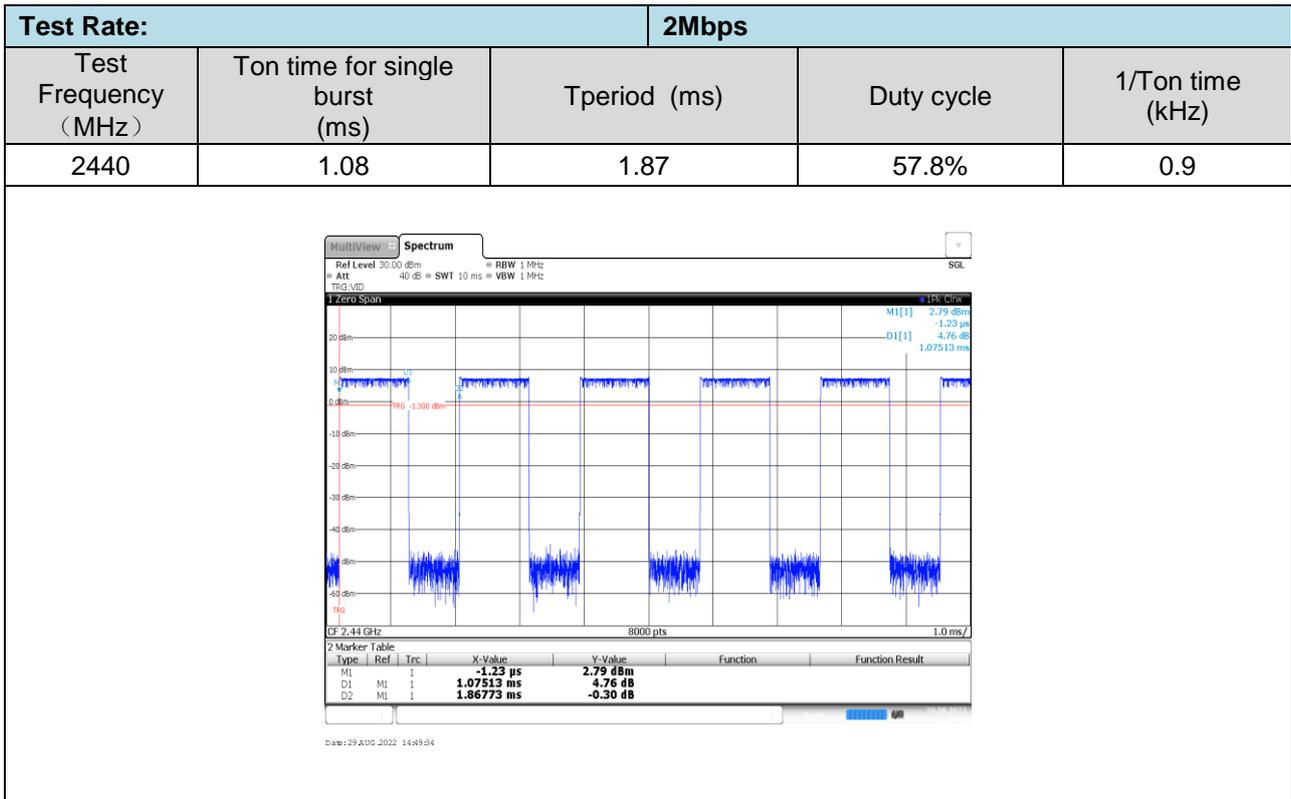
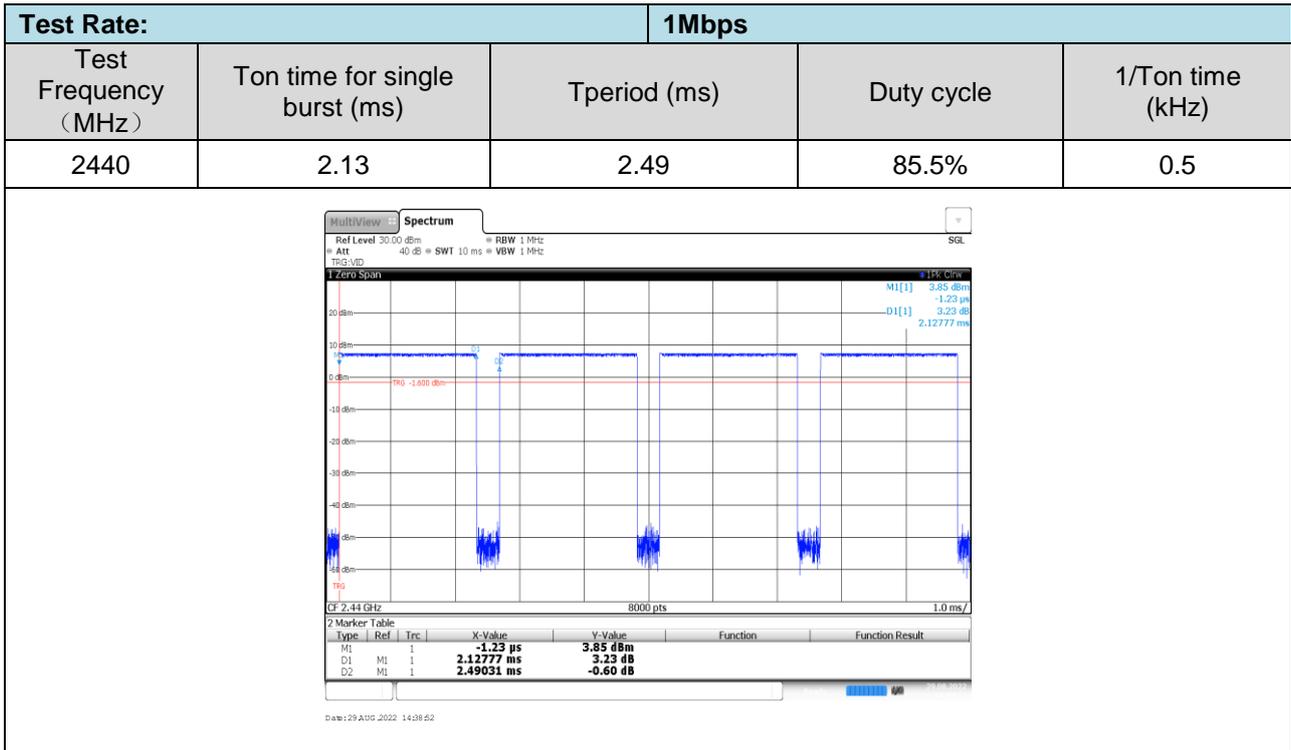
Appendix D: 99% Occupied Bandwidth

Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.02	-	Pass
	19	1.02		
	39	1.03		
2Mbps	00	2.04	-	Pass
	19	2.04		
	39	2.04		

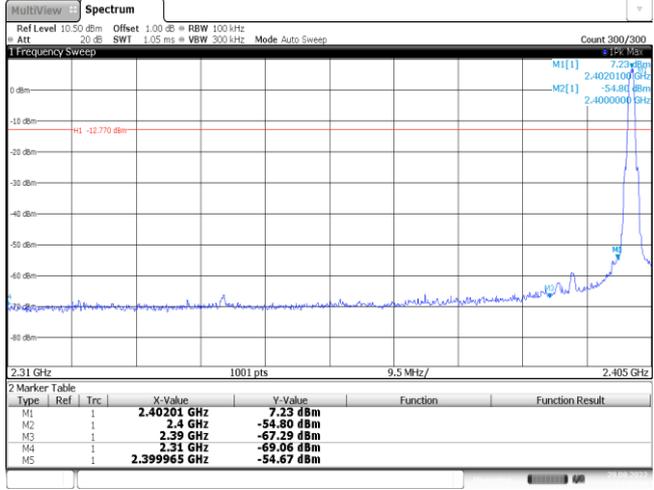
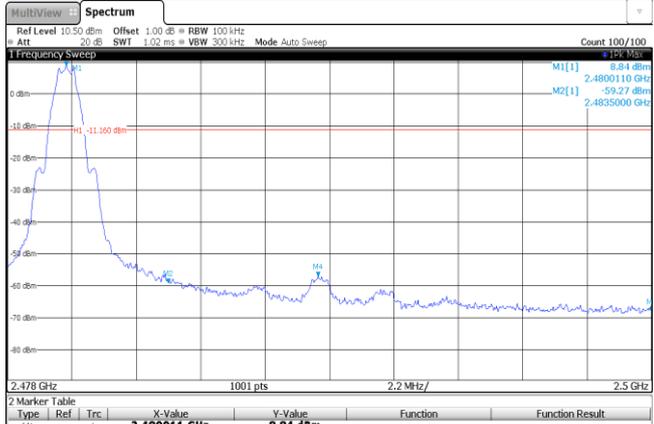
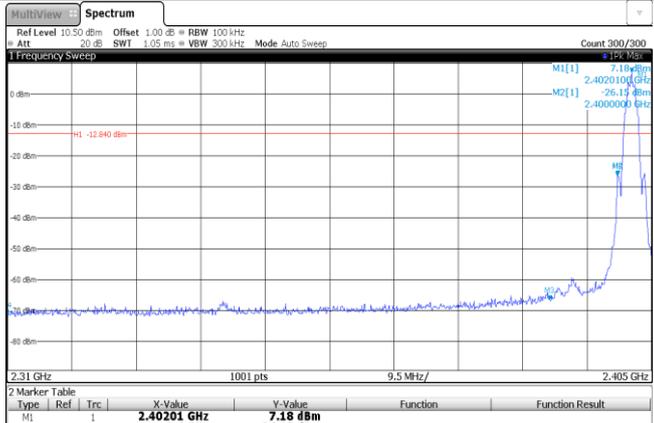
Test rate:		1Mbps																												
CH00	<p>3.42 dBm 2.40200800 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.402008 GHz</td> <td>3.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.40150649 GHz</td> <td>-11.96 dBm</td> <td>Occ Bw</td> <td>1.024975025 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.40253147 GHz</td> <td>-11.35 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 29.AUG.2022 14:02:29</p>		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402008 GHz	3.42 dBm			T1	1		2.40150649 GHz	-11.96 dBm	Occ Bw	1.024975025 MHz	T2	1		2.40253147 GHz	-11.35 dBm		
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<p>CH19</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>2.43999 GHz</td> <td>5.53 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.43901598 GHz</td> <td>-13.10 dBm</td> <td>Occ Bw</td> <td>2.037962038 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.44105395 GHz</td> <td>-11.99 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 29.AUG.2022 14:49:06</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.43999 GHz	5.53 dBm			T1	1		2.43901598 GHz	-13.10 dBm	Occ Bw	2.037962038 MHz	T2	1		2.44105395 GHz	-11.99 dBm		
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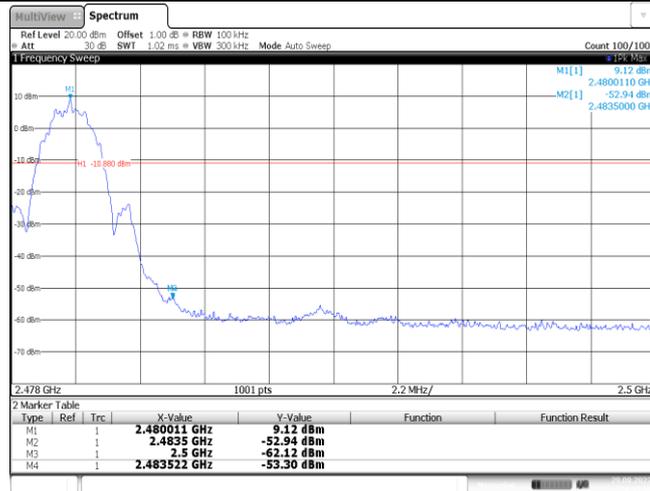
Appendix E: Duty cycle



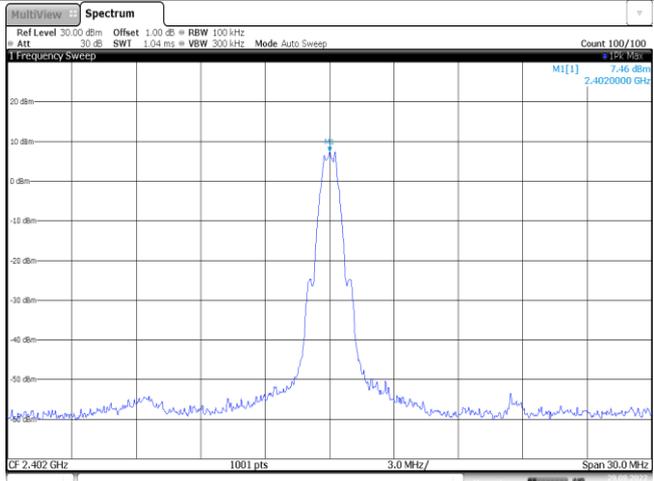
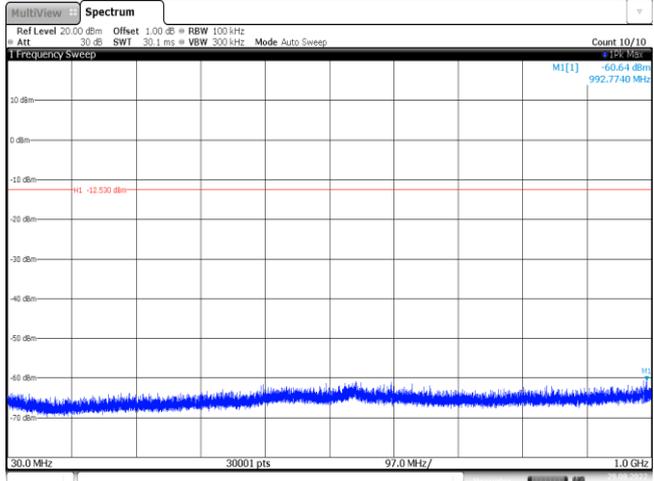
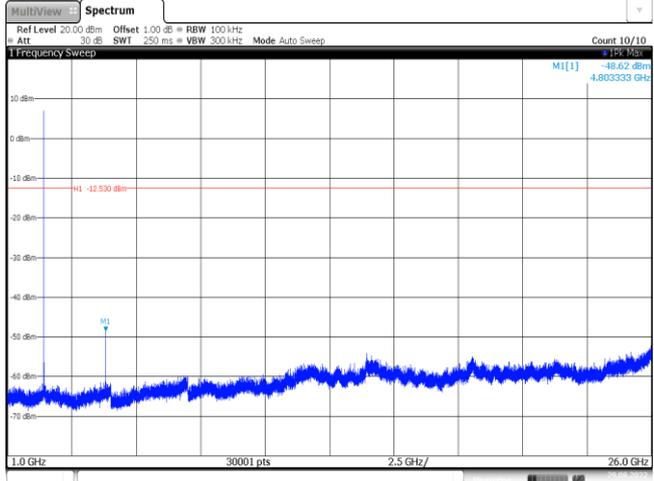
Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Test Rate:	1Mbps																																										
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M4	1		2.31 GHz	-69.06 dBm																																									
M5	1		2.399965 GHz	-54.67 dBm																																									
CH39	 <table border="1" data-bbox="683 1205 1337 1288"> <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>2.480011 GHz</td> <td>8.84 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4833 GHz</td> <td>-59.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-67.04 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.488604 GHz</td> <td>-57.12 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p data-bbox="683 1305 798 1321">Date: 29.AUG 2022 14:34:26</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.480011 GHz	8.84 dBm			M2	1		2.4833 GHz	-59.27 dBm			M3	1		2.5 GHz	-67.04 dBm			M4	1		2.488604 GHz	-57.12 dBm									
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Test Item:	Band edge	Test Rate:	2Mbps																																										
CH00	 <table border="1" data-bbox="683 1794 1337 1899"> <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>7.18 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-26.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-66.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-70.53 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-26.52 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p data-bbox="683 1910 798 1926">Date: 29.AUG 2022 14:48:00</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	7.18 dBm			M2	1		2.4 GHz	-26.15 dBm			M3	1		2.39 GHz	-66.71 dBm			M4	1		2.31 GHz	-70.53 dBm			M5	1		2.399965 GHz	-26.52 dBm		
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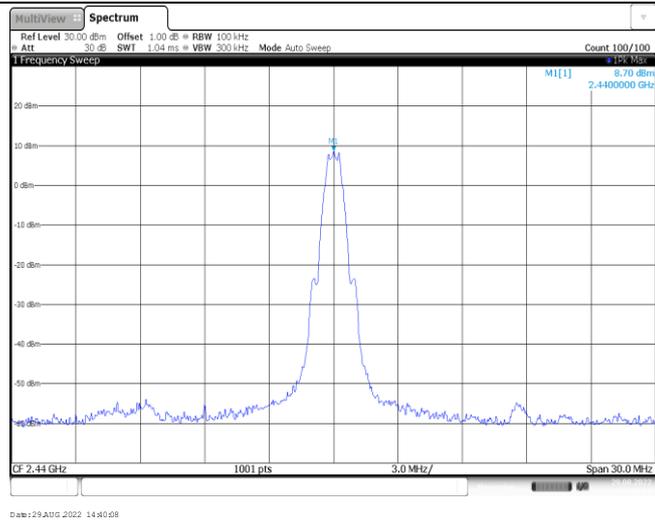
CH39



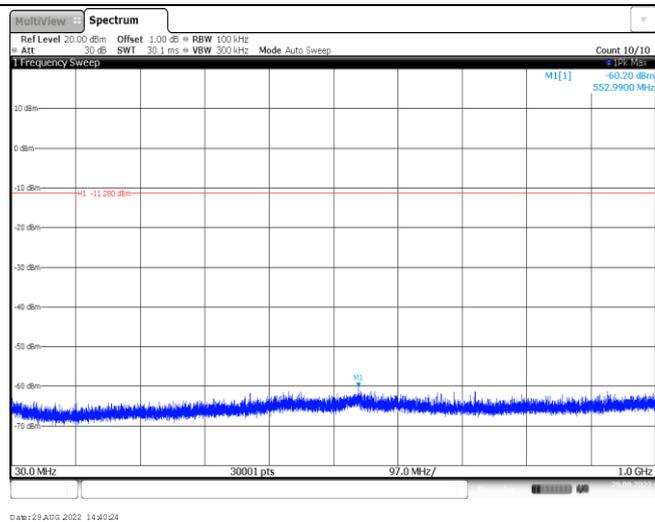
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Test Item:	SE	Test Rate:	1Mbps
<p>CH00 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 7.46 dBm 2.4020000 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 29.AUG.2022 14:03:12</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] -60.64 dBm 992.7740 MHz M1 -12.500 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 29.AUG.2022 14:03:28</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] -48.62 dBm 4.805333 GHz M1 -12.500 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 29.AUG.2022 14:03:44</p>		

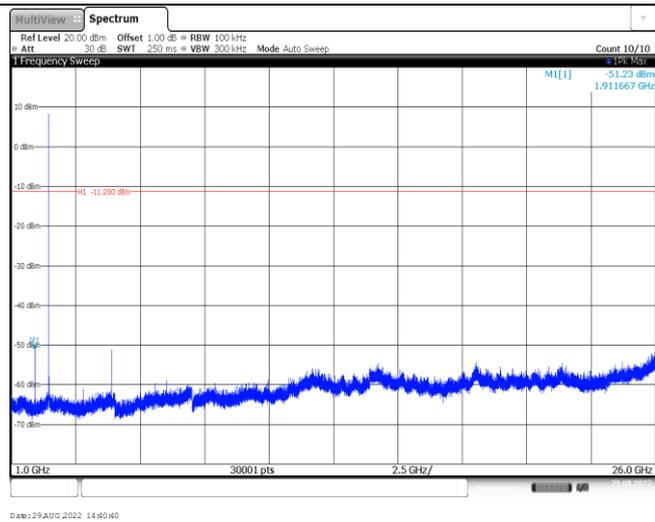
CH19
Reference level



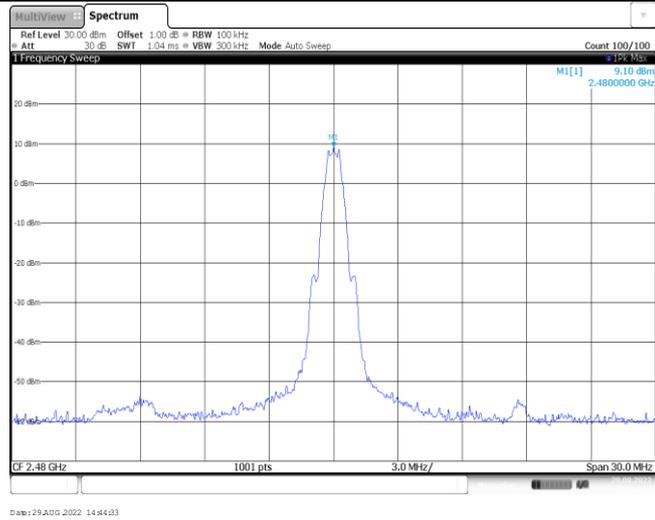
CH19
30MHz~1000MHz



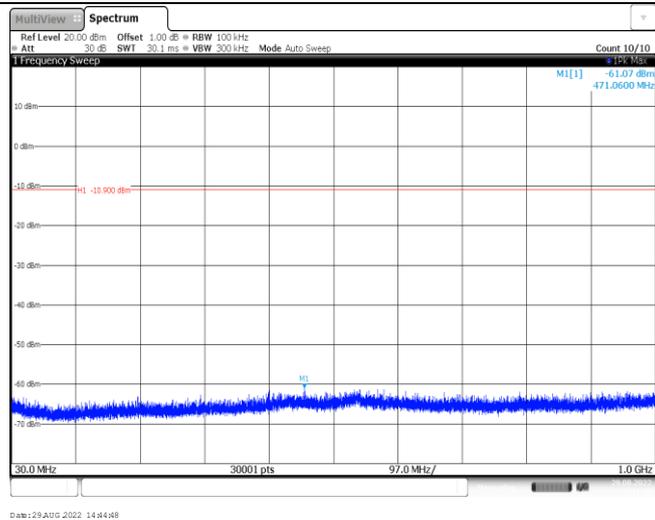
CH19
1GHz~26GHz



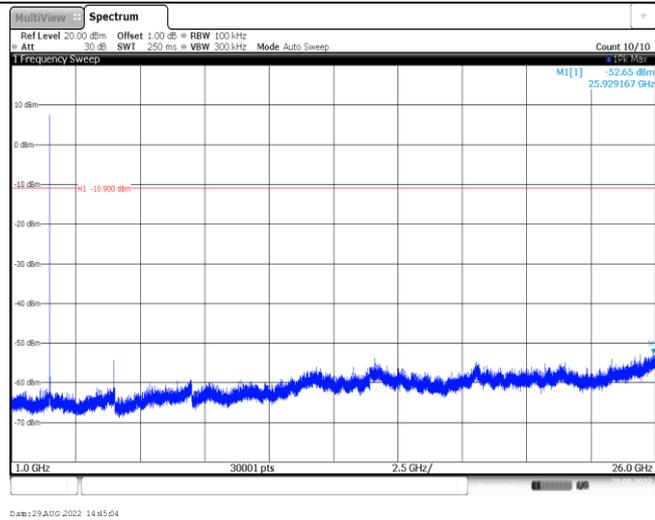
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Reference level

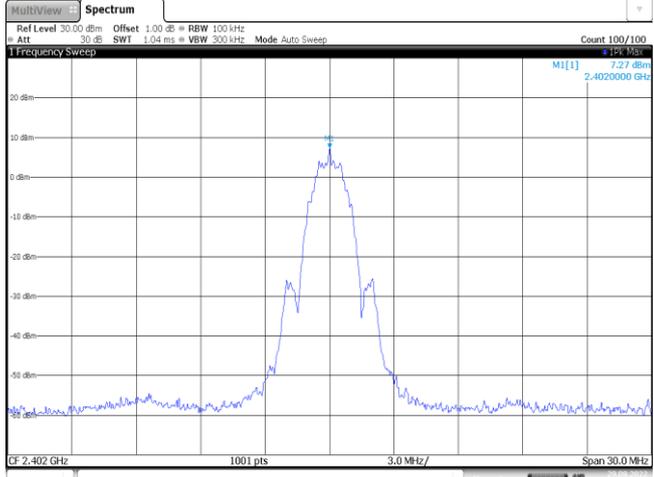
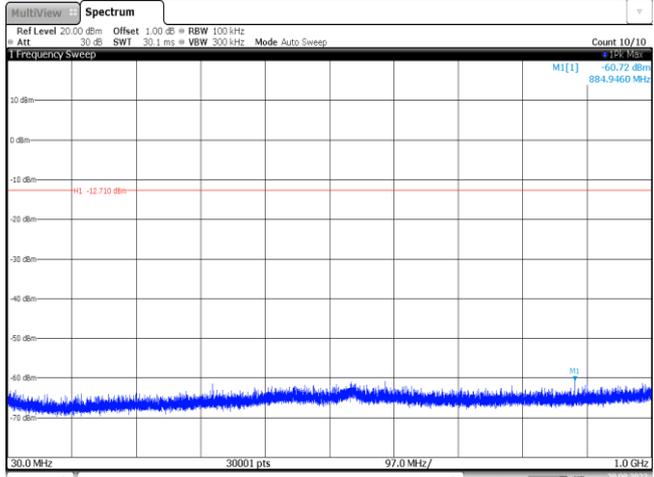
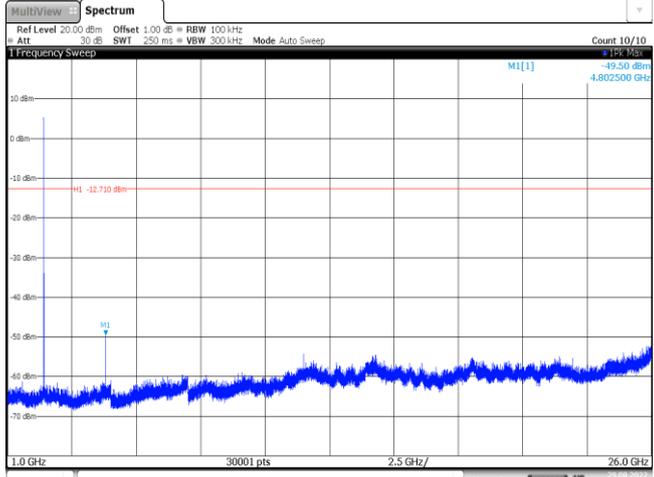


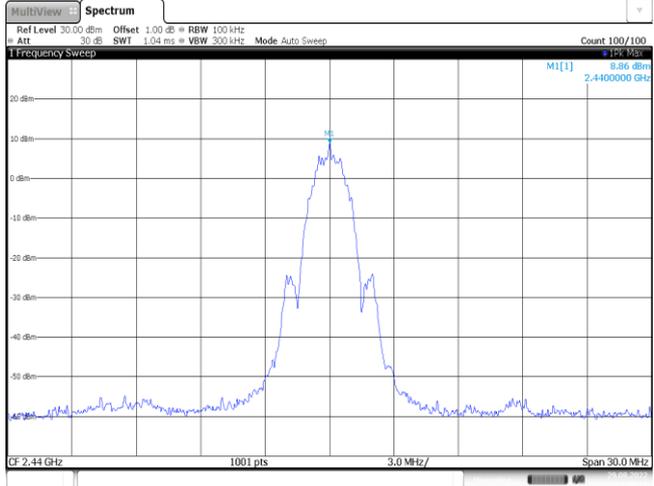
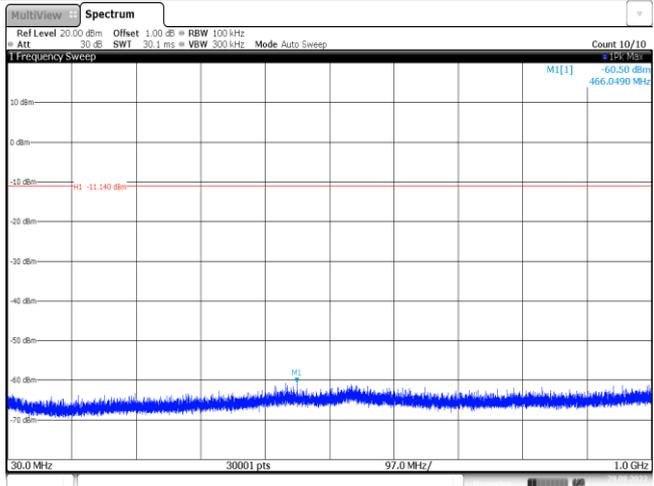
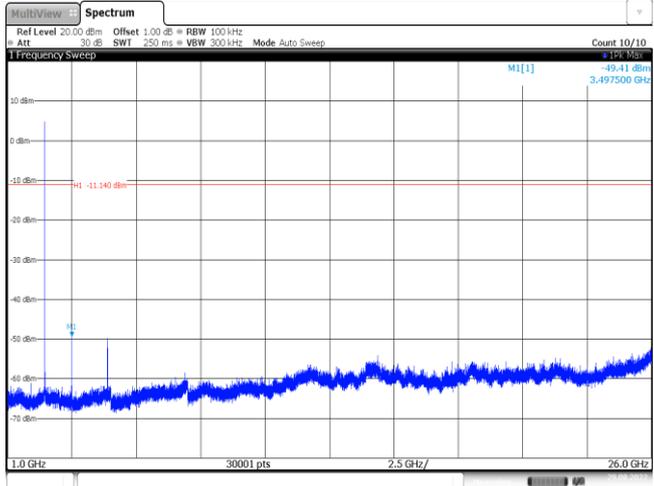
CH39
30MHz~1000MHz

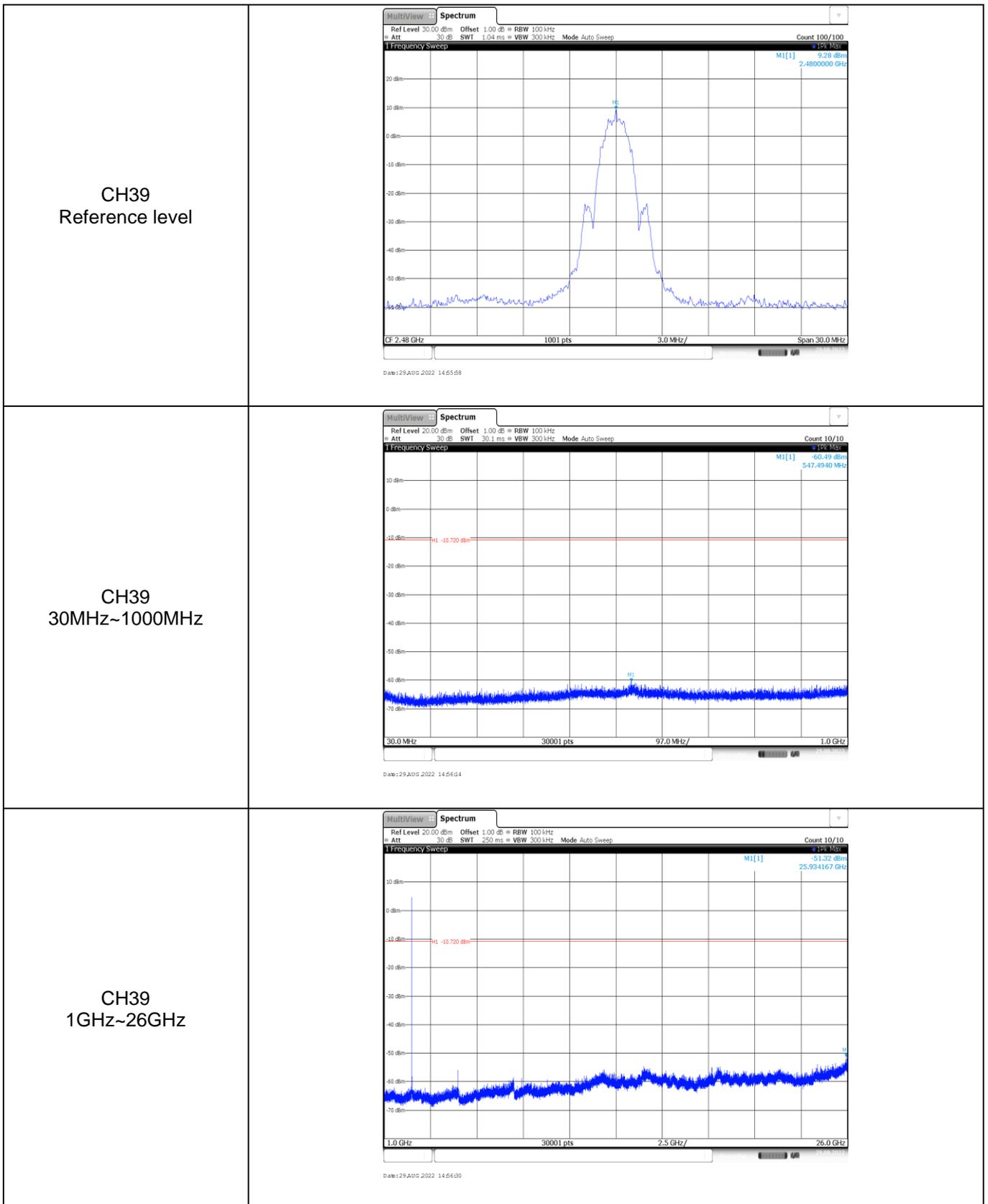


CH39
1GHz~26GHz



Test Item:	SE	Test Rate:	2Mbps
<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] 7.27 dBm 2.402000 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 29.AUG.2022 14:48:07</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] -60.72 dBm 894.9460 MHz MI -12.710 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 29.AUG.2022 14:48:23</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] -49.50 dBm 4.802500 GHz MI -12.710 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 29.AUG.2022 14:48:39</p>		

<p>CH19 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att -30 dB SWF 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 M1[1] 8.86 dBm 2.4400000 GHz CF 2.44 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 29 AUG 2022 14:51:12</p>
<p>CH19 30MHz~1000MHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att -30 dB SWF 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -60.50 dBm 466.0490 MHz M1 -11.140 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 29 AUG 2022 14:51:28</p>
<p>CH19 1GHz~26GHz</p>	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att -30 dB SWF 250 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -49.41 dBm 3.497500 GHz M1 -11.140 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 29 AUG 2022 14:51:44</p>



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