

APPENDIX REPORT

Project No.	SHT2105113201EW	Radio Specification	Bluetooth BLE
Test sample No.	YPHT21051132002	Model No.	SC400
Start test date	2021-07-13	Finish date	2021-07-13
Temperature	25.6°C	Humidity	33%
Test Engineer	Hailey Chen	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

Test rate	Channel	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
1Mbps	00	-1.00	-1.05	≤ 30.00	Pass
	19	0.72	0.67		
	39	1.76	1.73		
2Mbps	00	-0.91	-1.00	≤ 30.00	Pass
	19	0.80	0.72		
	39	1.84	1.72		

Test rate: 1Mbps	
CH00	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 20 dB SWI 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] -1.00 dBm 2.40172530 GHz CF 2.402 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 13_JUL_2021 09:45:01</p>
CH19	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 20 dB SWI 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 0.72 dBm 2.43976520 GHz CF 2.44 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 13_JUL_2021 09:48:08</p>
CH39	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 2 MHz Att 20 dB SWI 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] 1.76 dBm 2.47981520 GHz CF 2.48 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 13_JUL_2021 09:50:03</p>

Test rate: 2Mbps	
CH00	<p> MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 MHz Count 500/500 Att 20 dB SWI 1.01 ms VBW 10 MHz Mode Auto Sweep 1 Frequency Sweep M1[1] -0.91 dBm 2.40149100 GHz CF 2.402 GHz 1001 pts 1.0 MHz/ Span 10.0 MHz Date: 13.JUL.2021 10:15:57 </p>
CH19	<p> MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 MHz Count 500/500 Att 20 dB SWI 1.01 ms VBW 10 MHz Mode Auto Sweep 1 Frequency Sweep M1[1] 0.80 dBm 2.43950000 GHz CF 2.44 GHz 1001 pts 1.0 MHz/ Span 10.0 MHz Date: 13.JUL.2021 10:18:41 </p>
CH39	<p> MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 MHz Count 500/500 Att 20 dB SWI 1.01 ms VBW 10 MHz Mode Auto Sweep 1 Frequency Sweep M1[1] 1.84 dBm 2.47951000 GHz CF 2.48 GHz 1001 pts 1.0 MHz/ Span 10.0 MHz Date: 13.JUL.2021 10:21:55 </p>

Appendix B: Power Spectral Density

Test rate	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
1Mbps	00	-16.33	≤8.00	Pass
	19	-14.55		
	39	-13.60		
2Mbps	00	-19.90	≤8.00	Pass
	19	-17.90		
	39	-17.04		

Test rate: 1Mbps	
CH00	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att -20 dB SWF 1.4 ms (->2.00) VBW 10 kHz Mode Auto FFT Count 100/100 M1[1] -16.33 dBm 2.401841200 GHz CF 2.402 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 13.10.2021 09:45:07</p>
CH19	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att -20 dB SWF 1.4 ms (->2.00) VBW 10 kHz Mode Auto FFT Count 100/100 M1[1] -14.55 dBm 2.439841200 GHz CF 2.44 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 13.10.2021 09:48:42</p>
CH39	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Att -20 dB SWF 1.4 ms (->2.00) VBW 10 kHz Mode Auto FFT Count 100/100 M1[1] -13.60 dBm 2.479841200 GHz CF 2.48 GHz 1001 pts 100.0 kHz/ Span 1.0 MHz Date: 13.10.2021 09:51:07</p>

Test rate: 2Mbps	
CH00	<p> MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Count 100/100 ATT -20 dB SWF 1.4 ms (~15 ms) YBW 10 kHz Mode Auto FFT 1 Frequency Sweep M1[1] -19.91 dBm 2.40167330 GHz CF 2.402 GHz 1001 pts 300.0 kHz/ Span 3.0 MHz Date: 13.01.2021 10:16:04 </p>
CH19	<p> MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Count 100/100 ATT -20 dB SWF 1.4 ms (~15 ms) YBW 10 kHz Mode Auto FFT 1 Frequency Sweep M1[1] -17.90 dBm 2.43967330 GHz CF 2.44 GHz 1001 pts 300.0 kHz/ Span 3.0 MHz Date: 13.01.2021 10:19:15 </p>
CH39	<p> MultiView Spectrum Ref Level 10.50 dBm Offset 1.00 dB RBW 3 kHz Count 100/100 ATT -20 dB SWF 1.4 ms (~15 ms) YBW 10 kHz Mode Auto FFT 1 Frequency Sweep M1[1] -17.04 dBm 2.47967330 GHz CF 2.48 GHz 1001 pts 300.0 kHz/ Span 3.0 MHz Date: 13.01.2021 10:22:02 </p>

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
1Mbps	00	750.00	≥500	Pass
	19	748.00		
	39	752.00		
2Mbps	00	1375.00	≥500	Pass
	19	1390.00		
	39	1390.00		

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>2.401628 GHz</td> <td>-8.83 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.402046 GHz</td> <td>-2.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>750.0 kHz</td> <td>0.03 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13.JUL.2021 09:44:40</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401628 GHz	-8.83 dBm			M2	1		2.402046 GHz	-2.78 dBm			D3	M1	1	750.0 kHz	0.03 dB		
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Appendix D: 99% Occupied Bandwidth

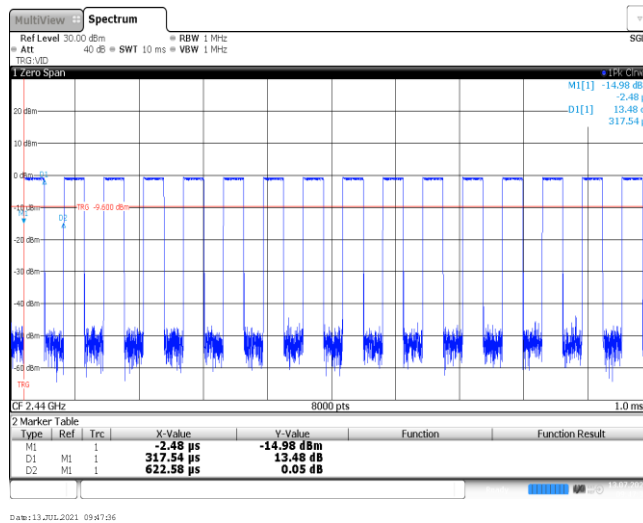
Test rate	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
1Mbps	00	1.03	-	Pass
	19	1.03		
	39	1.03		
2Mbps	00	2.04	-	Pass
	19	2.04		
	39	2.04		

Test rate:		1Mbps																												
CH00	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 30 kHz Count 500/500 Att -20 dB SWF 140 μs (-7.2 ms) VBW 100 kHz Mode Auto FFT 1 Occupied Bandwidth M1[1] -5.44 dBm 2.40198600 GHz</p> <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>2.401986 GHz</td> <td>-5.44 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4015025 GHz</td> <td>-21.67 dBm</td> <td>Occ Bw</td> <td>1.030969031 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4025347 GHz</td> <td>-20.00 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13.10.1.2021 09:44:52</p>		Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.401986 GHz	-5.44 dBm			T1	1		2.4015025 GHz	-21.67 dBm	Occ Bw	1.030969031 MHz	T2	1		2.4025347 GHz	-20.00 dBm		
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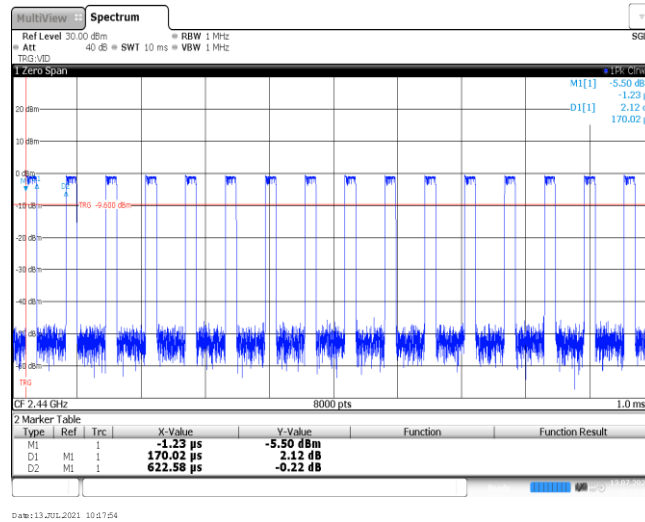
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<p>CH19</p>	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 30 kHz Att -20 dB SWF 140 μs (~7.5 ms) VBW 100 kHz Mode Auto FFT Count 500/500 1 Occupied Bandwidth M1[1] -6.12 dBm 2.43999000 GHz</p> <p>CF 2.44 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz</p> <table 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>2.43999 GHz</td> <td>-6.12 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.43901099 GHz</td> <td>-21.59 dBm</td> <td>Occ Bw</td> <td>2.037962038 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.44104895 GHz</td> <td>-20.65 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13.JUL.2021 10:18:02</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.43999 GHz	-6.12 dBm			T1	1		2.43901099 GHz	-21.59 dBm	Occ Bw	2.037962038 MHz	T2	1		2.44104895 GHz	-20.65 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.43999 GHz	-6.12 dBm																									
T1	1		2.43901099 GHz	-21.59 dBm	Occ Bw	2.037962038 MHz																							
T2	1		2.44104895 GHz	-20.65 dBm																									
<p>CH39</p>	<p>Ref Level 10.50 dBm Offset 1.00 dB RBW 30 kHz Att -20 dB SWF 140 μs (~7.5 ms) VBW 100 kHz Mode Auto FFT Count 500/500 1 Occupied Bandwidth M1[1] -5.27 dBm 2.47999000 GHz</p> <p>CF 2.48 GHz 1001 pts 500.0 kHz/ Span 5.0 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>2.47999 GHz</td> <td>-5.27 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.47901099 GHz</td> <td>-20.62 dBm</td> <td>Occ Bw</td> <td>2.037962038 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.48104895 GHz</td> <td>-19.46 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13.JUL.2021 10:21:46</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.47999 GHz	-5.27 dBm			T1	1		2.47901099 GHz	-20.62 dBm	Occ Bw	2.037962038 MHz	T2	1		2.48104895 GHz	-19.46 dBm		
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T2	1		2.48104895 GHz	-19.46 dBm																									

Appendix E: Duty cycle

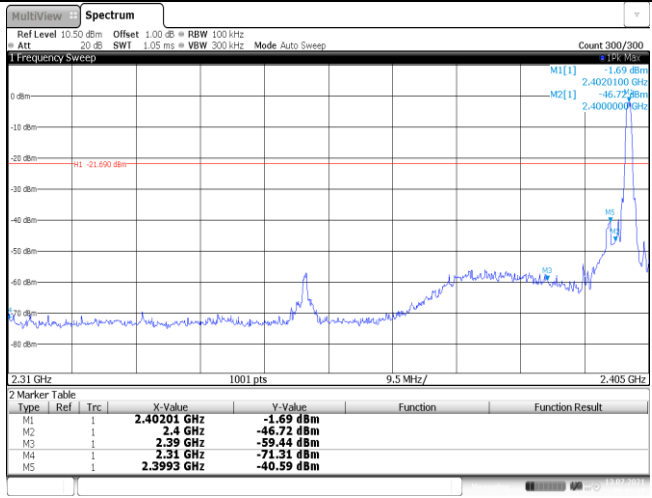
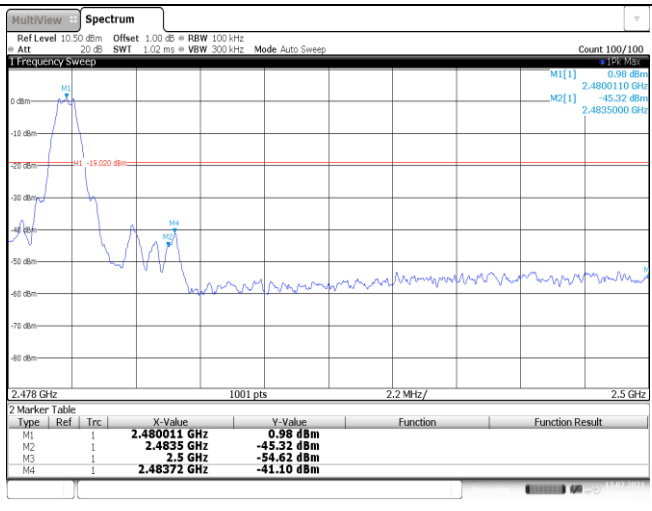
Test Rate:		1Mbps		
Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
2440	0.32	0.62	51.6%	3.1

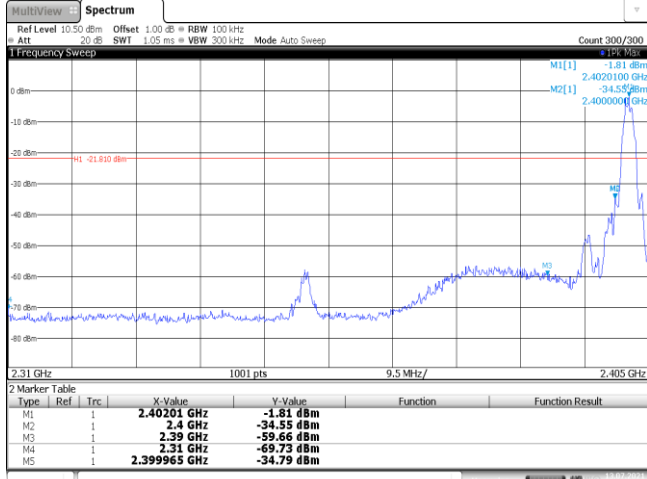


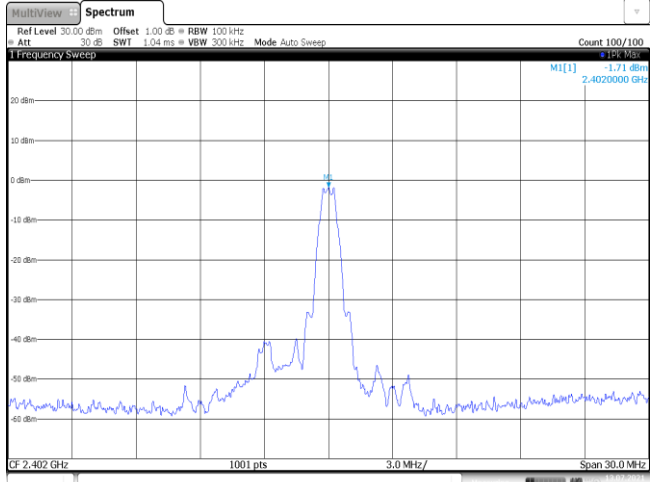
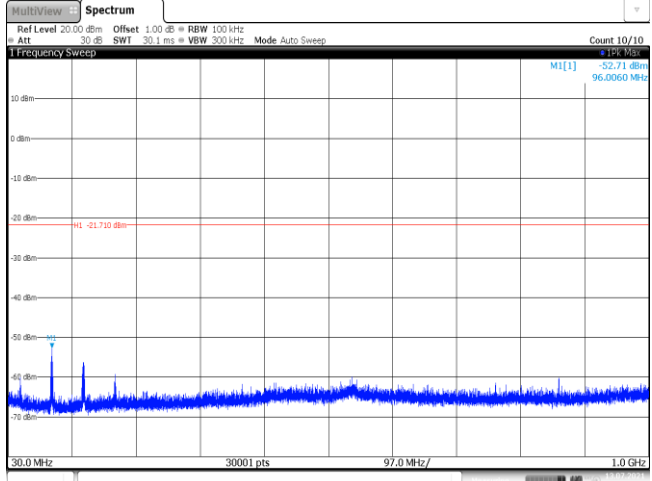
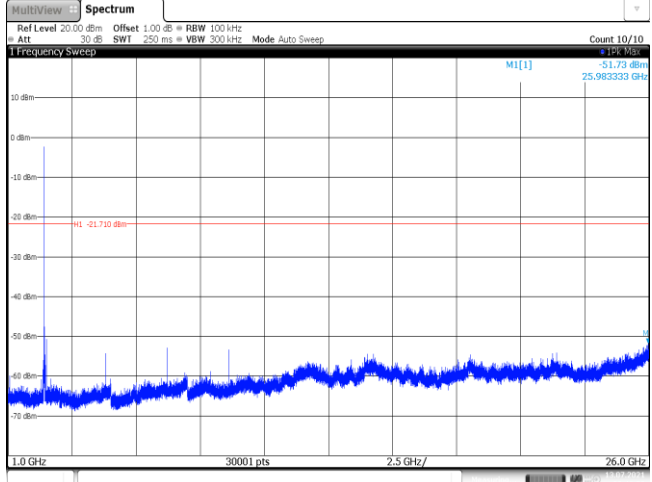
Test Rate:		2Mbps		
Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
2440	0.17	0.62	27.4%	5.9

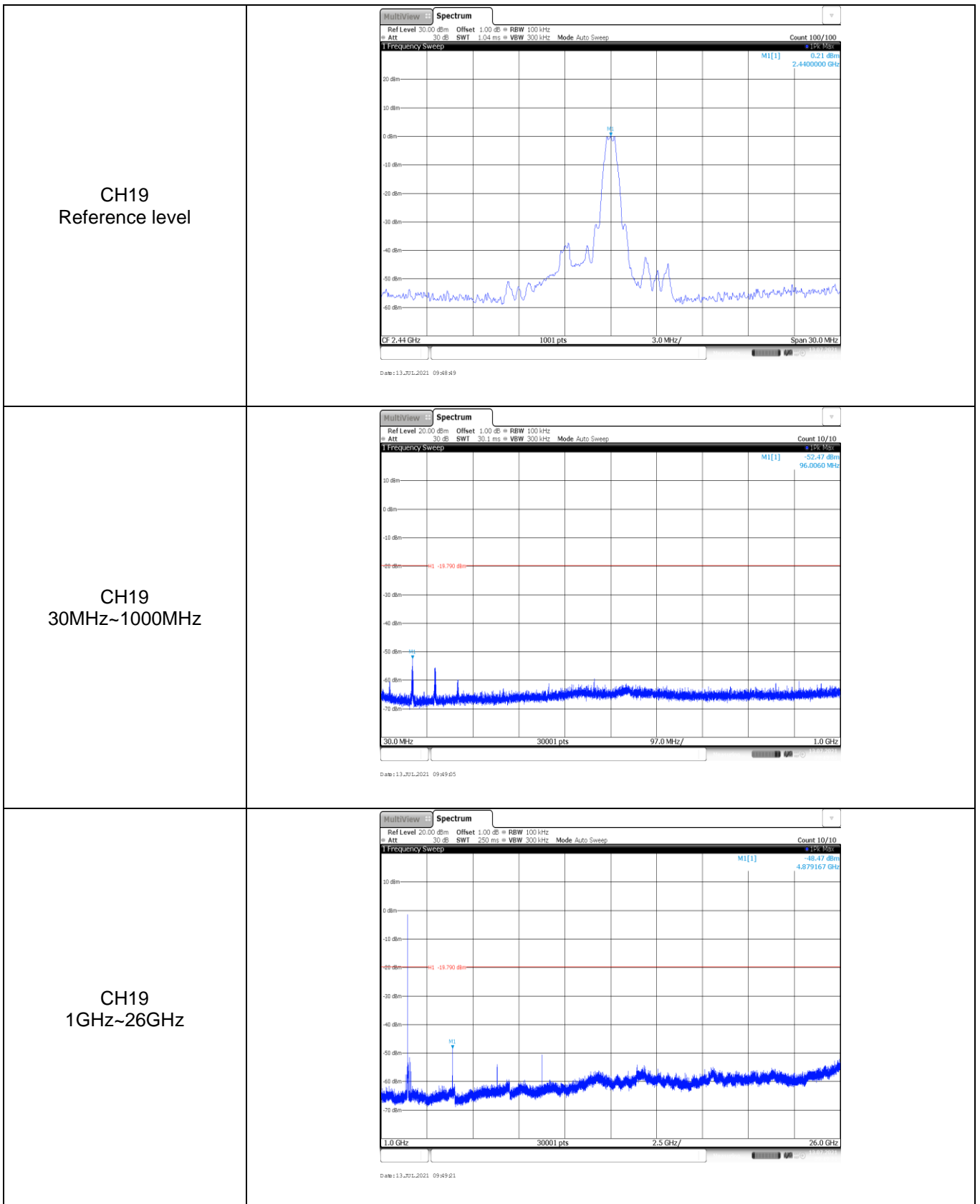


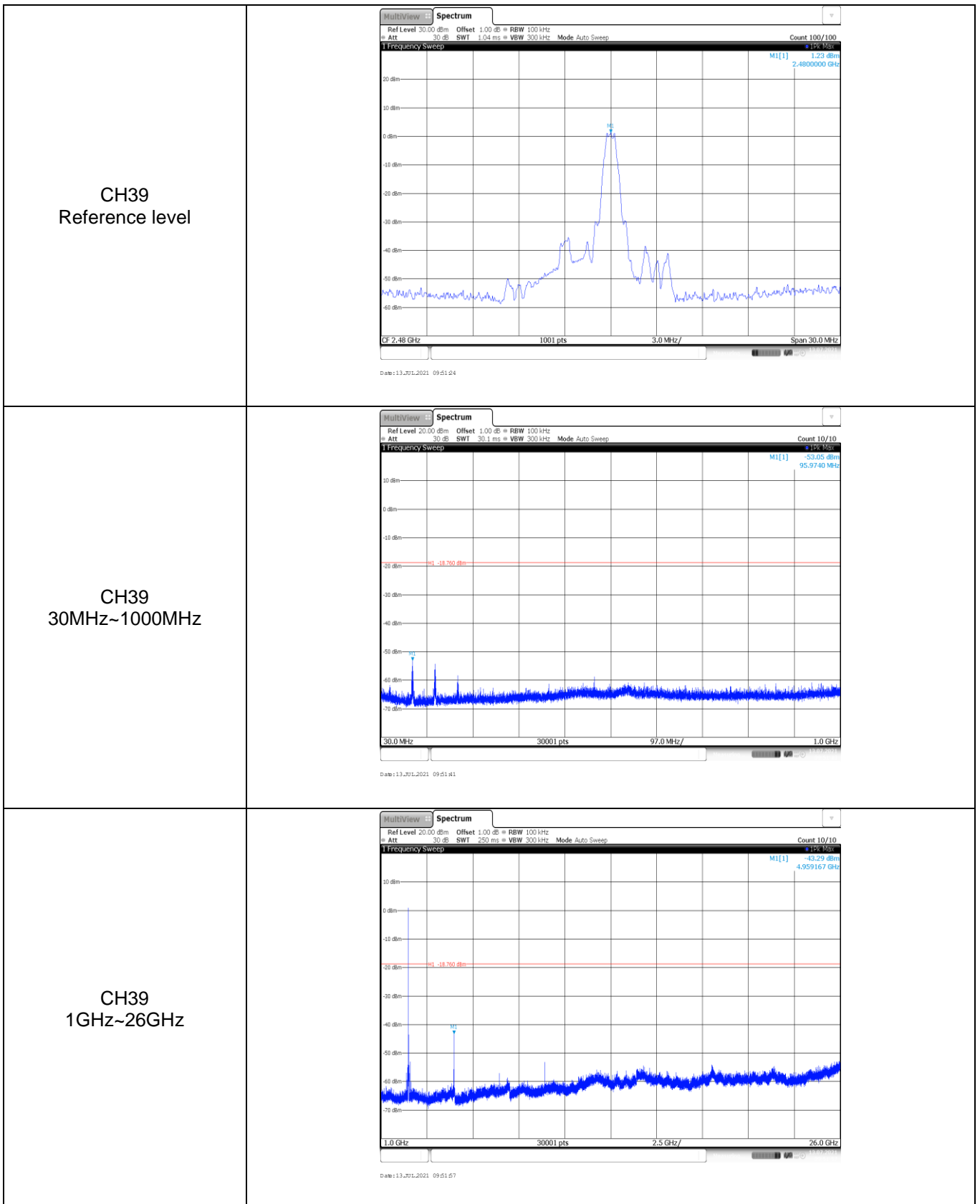
Appendix F: Band edge and Spurious Emissions (conducted)

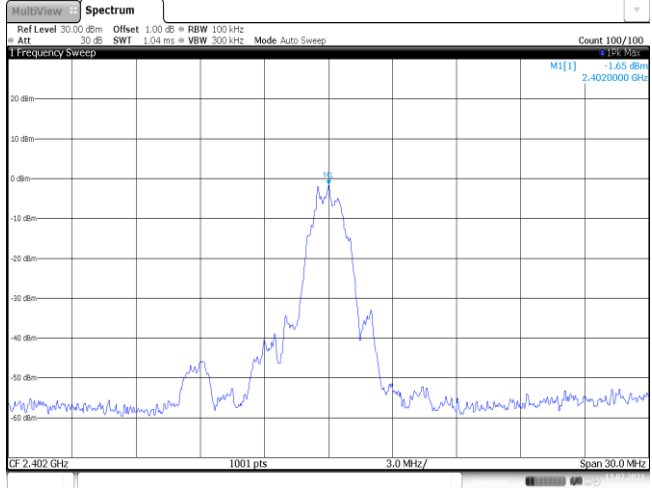
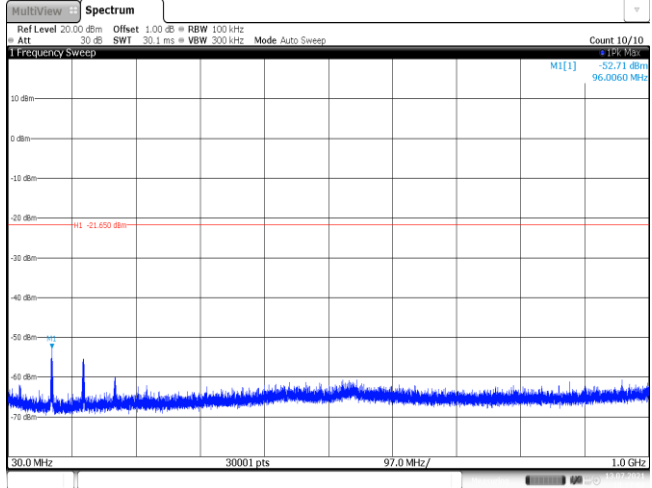
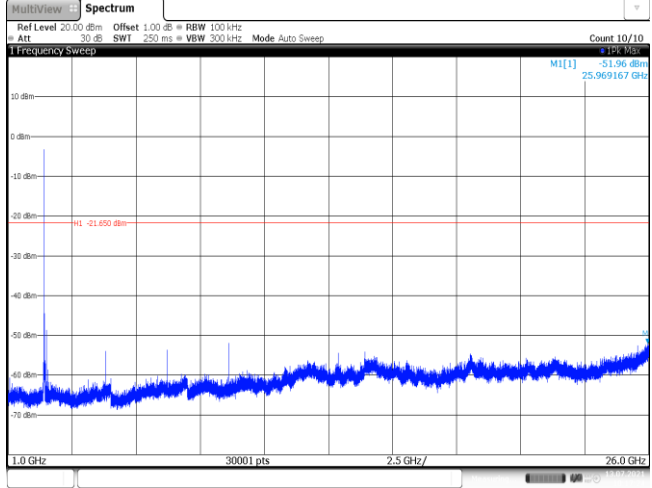
Test Item:	Band edge	Test Rate:	1Mbps																																										
CH00	 <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40201 GHz</td> <td>-1.69 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-46.72 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-59.44 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-71.31 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.3993 GHz</td> <td>-40.59 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13.7.1.2021 09:45:47</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	-1.69 dBm			M2	1		2.4 GHz	-46.72 dBm			M3	1		2.39 GHz	-59.44 dBm			M4	1		2.31 GHz	-71.31 dBm			M5	1		2.3993 GHz	-40.59 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M3	1		2.5 GHz	-54.62 dBm																																									
M4	1		2.48372 GHz	-41.10 dBm																																									

Test Item:	Band edge	Test Rate:	2Mbps																																										
CH00		 <p>Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz Att -20 dB SWI 1.05 ms VBW 300 kHz Mode Auto Sweep</p> <p>Count 300/300</p> <p>1 Frequency Sweep</p> <p>M1[1] 1.81 dBm M2[1] -34.55 dBm M3[1] -59.66 dBm M4[1] -69.73 dBm M5[1] -34.79 dBm</p> <p>2.31 GHz 1001 pts 9.5 MHz/ 2.405 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>2.40201 GHz</td> <td>-1.81 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-34.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-59.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-69.73 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399965 GHz</td> <td>-34.79 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13-Jul-2021 10:56:45</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	-1.81 dBm			M2	1		2.4 GHz	-34.55 dBm			M3	1		2.39 GHz	-59.66 dBm			M4	1		2.31 GHz	-69.73 dBm			M5	1		2.399965 GHz	-34.79 dBm			
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M3	1		2.39 GHz	-59.66 dBm																																									
M4	1		2.31 GHz	-69.73 dBm																																									
M5	1		2.399965 GHz	-34.79 dBm																																									
CH39		 <p>Ref Level 10.50 dBm Offset 1.00 dB BW 100 kHz Att -20 dB SWI 1.02 ms VBW 300 kHz Mode Auto Sweep</p> <p>Count 100/100</p> <p>1 Frequency Sweep</p> <p>M1[1] 0.93 dBm M2[1] -54.65 dBm M3[1] -55.91 dBm M4[1] -45.10 dBm</p> <p>2.478 GHz 1001 pts 2.2 MHz/ 2.5 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>2.480011 GHz</td> <td>0.93 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-54.65 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-55.91 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.48424 GHz</td> <td>-45.10 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 13-Jul-2021 10:22:42</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.480011 GHz	0.93 dBm			M2	1		2.4835 GHz	-54.65 dBm			M3	1		2.5 GHz	-55.91 dBm			M4	1		2.48424 GHz	-45.10 dBm										
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M3	1		2.5 GHz	-55.91 dBm																																									
M4	1		2.48424 GHz	-45.10 dBm																																									

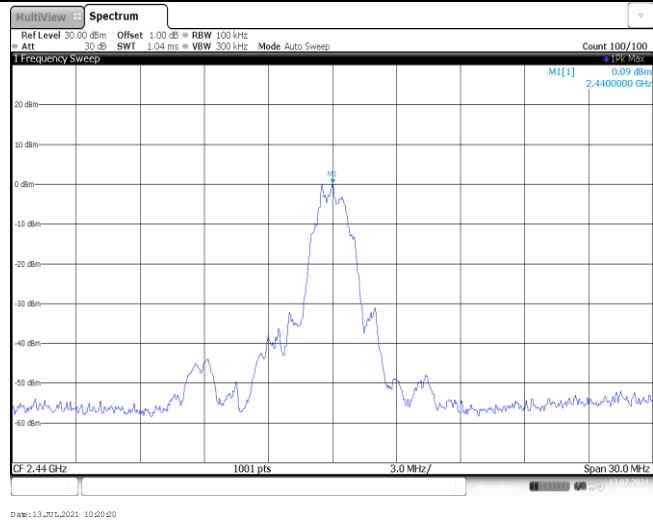
Test Item:	SE	Test Rate:	1Mbps
<p>CH00 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 1.71 dBm 2.4020000 GHz CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 13-Jul-2021 09:45:55</p>		
<p>CH00 30MHz~1000MHz</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 MI[1] -52.71 dBm 96.0060 MHz 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 13-Jul-2021 09:46:12</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 MI[1] -51.73 dBm 25.985333 GHz 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 13-Jul-2021 09:46:28</p>		



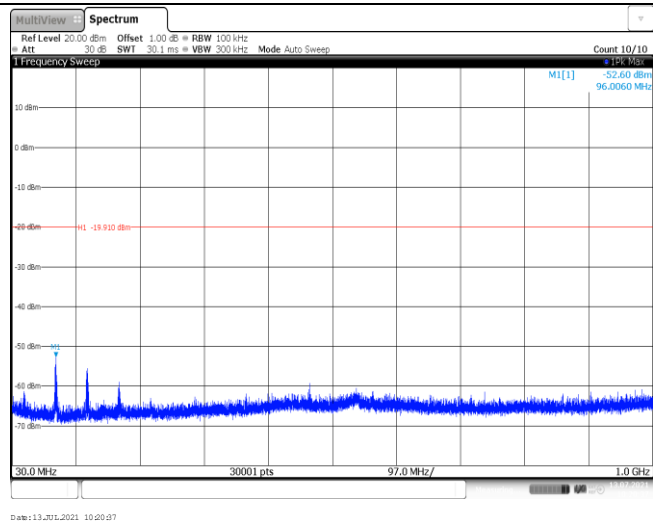


Test Item:	SE	Test Rate:	2Mbps
<p>CH00 Reference level</p>	 <p>Ref Level 30.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100</p> <p>MI[1] -1.63 dBm 2.402000 GHz</p> <p>CF 2.402 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <p>Date: 13-Jul-2021 10:16:51</p>		
<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</p> <p>MI[1] -52.71 dBm 96.0060 MHz</p> <p>H1 -21.650 dBm</p> <p>30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz</p> <p>Date: 13-Jul-2021 10:17:07</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</p> <p>MI[1] -51.96 dBm 25.969167 GHz</p> <p>H1 -21.650 dBm</p> <p>1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz</p> <p>Date: 13-Jul-2021 10:17:24</p>		

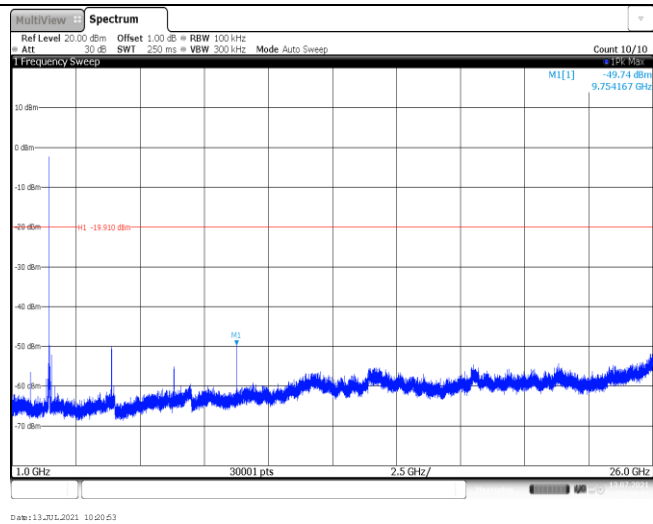
CH19
Reference level



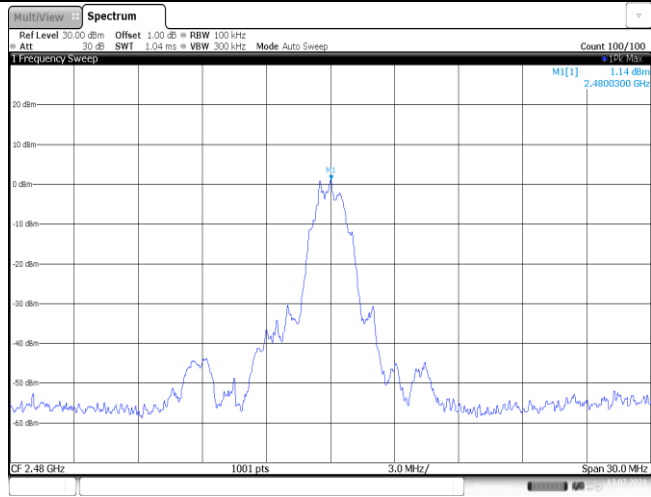
CH19
30MHz~1000MHz



CH19
1GHz~26GHz

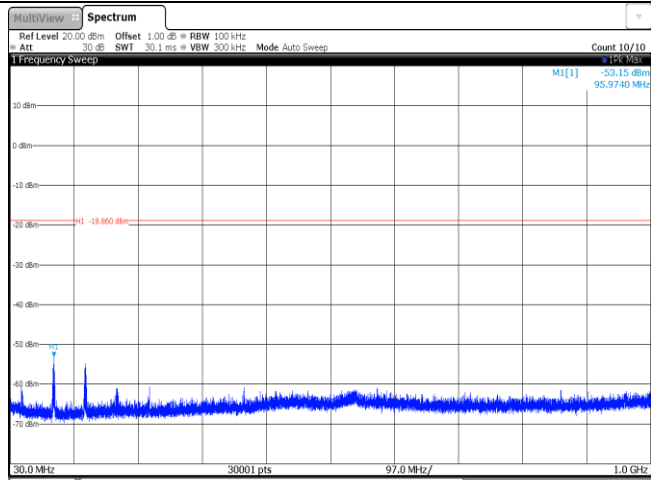


CH39
Reference level



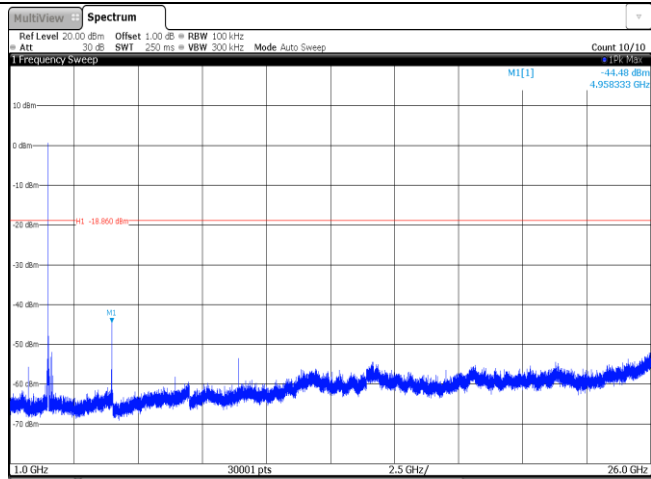
Date: 13 Jul 2021 10:22:49

CH39
30MHz~1000MHz



Date: 13 Jul 2021 10:23:05

CH39
1GHz~26GHz



Date: 13 Jul 2021 10:23:21

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