

APPENDIX REPORT

Project No.	SHT2105056502EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21050565002	Model No.	YHS.3120
Start test date	2021-05-27	Finish date	2021-05-27
Temperature	26.2°C	Humidity	35%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zheo

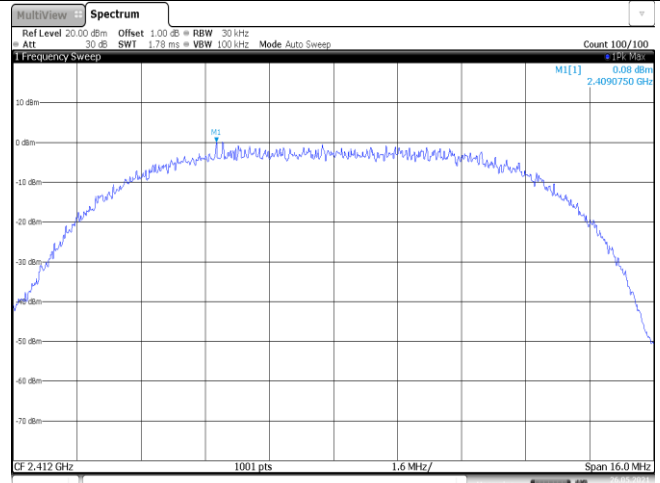
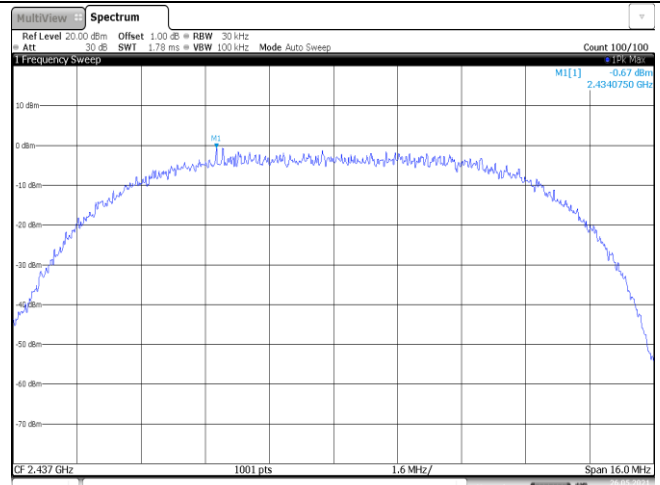
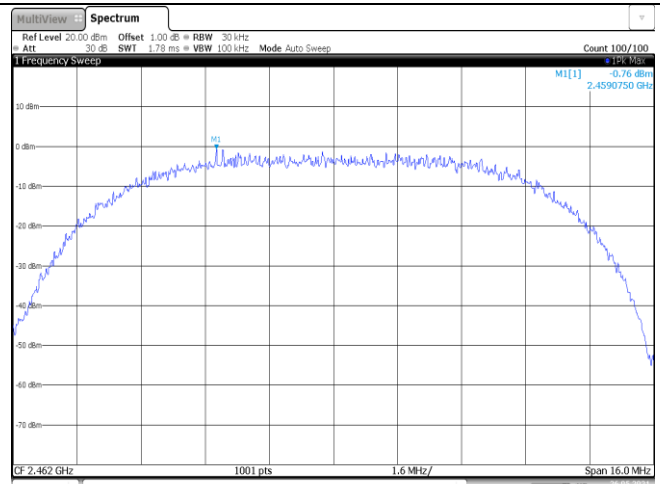
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

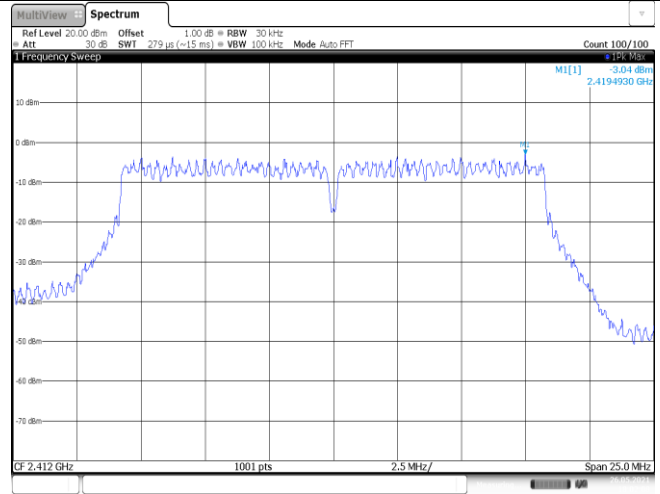
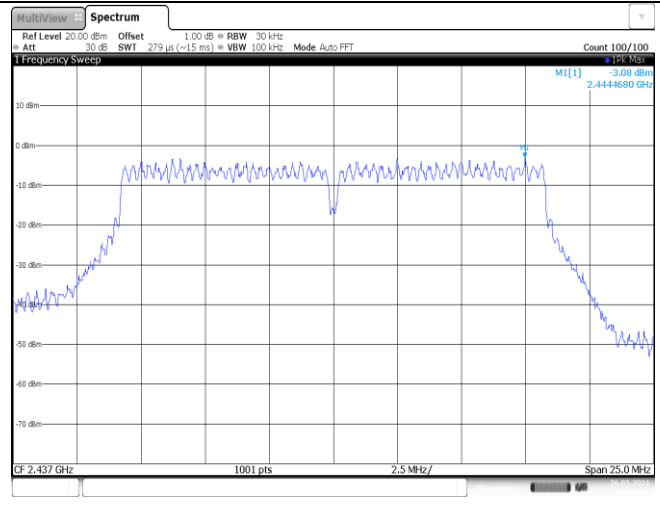
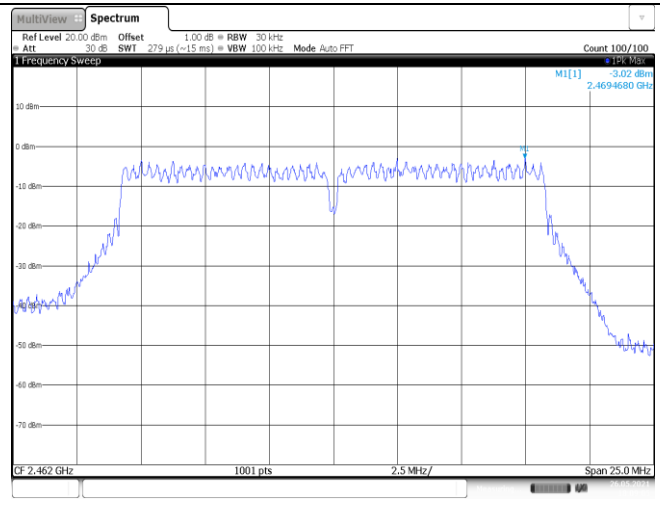
Appendix A: Conducted Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	20.01	18.60	≤ 30.00	Pass
	06	19.12	17.65		
	11	18.36	16.89		
802.11g	01	22.66	20.65	≤ 30.00	Pass
	06	21.76	19.76		
	11	21.17	19.09		
802.11n (HT20)	01	22.68	20.75	≤ 30.00	Pass
	06	21.25	19.58		
	11	22.17	20.36		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	0.08	≤8.00	Pass
	06	-0.67		
	11	-0.76		
802.11g	01	-3.04	≤8.00	Pass
	06	-3.08		
	11	-3.02		
802.11n(HT20)	01	-2.07	≤8.00	Pass
	06	-3.13		
	11	-1.99		

Type:	802.11 b
CH01	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 MI[1] 0.08 dBm 2.4090750 GHz CF 2.412 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 26 MAY 2021 17:52:00</p>
CH06	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 MI[1] -0.67 dBm 2.4340750 GHz CF 2.437 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 26 MAY 2021 17:55:24</p>
CH11	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep Count 100/100 MI[1] -0.76 dBm 2.4590750 GHz CF 2.462 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz Date: 26 MAY 2021 17:59:35</p>

Type:	802.11 g
CH01	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -3.04 dBm 2.4194930 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 26 MAY 2021 18:02:07</p>
CH06	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -3.08 dBm 2.4444680 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 26 MAY 2021 18:06:01</p>
CH11	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 MI[1] -3.02 dBm 2.4694680 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 26 MAY 2021 18:09:05</p>

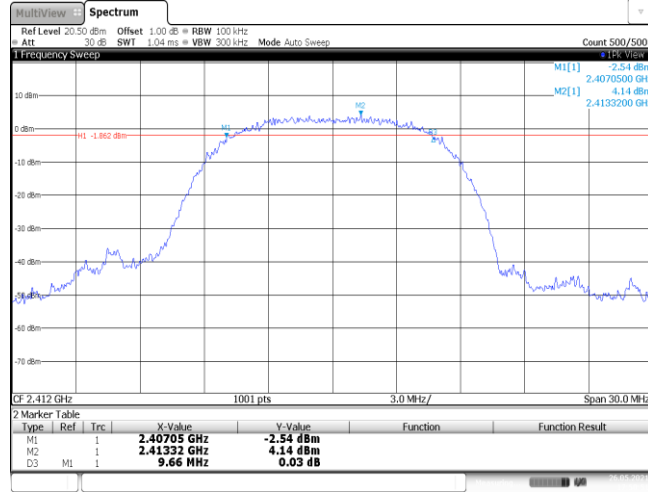
Type:	802.11n(HT20)
CH01	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] 2.07 dBm 2.4194930 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 26 MAY 2021 18:16:00</p>
CH06	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -3.13 dBm 2.4444680 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 26 MAY 2021 19:00:07</p>
CH11	<p>Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -1.99 dBm 2.4669700 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 26 MAY 2021 19:03:11</p>

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	9.66	≥0.5	Pass
	06	9.66		
	11	9.66		
802.11g	01	16.56	≥0.5	Pass
	06	16.59		
	11	16.59		
802.11n(HT20)	01	17.79	≥0.5	Pass
	06	17.79		
	11	17.79		

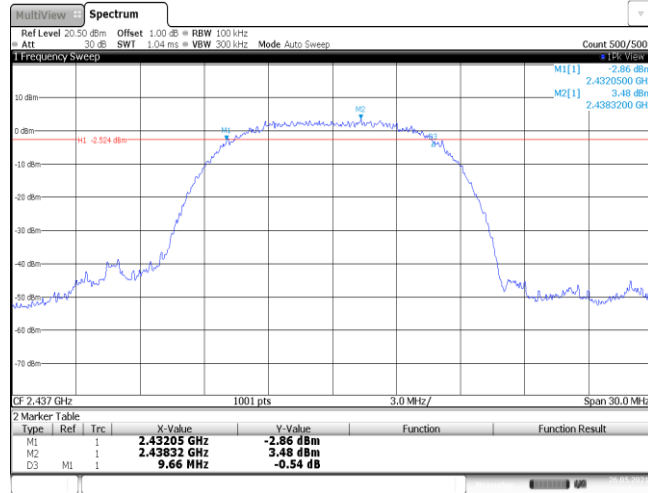
Type: **802.11 b**

CH01



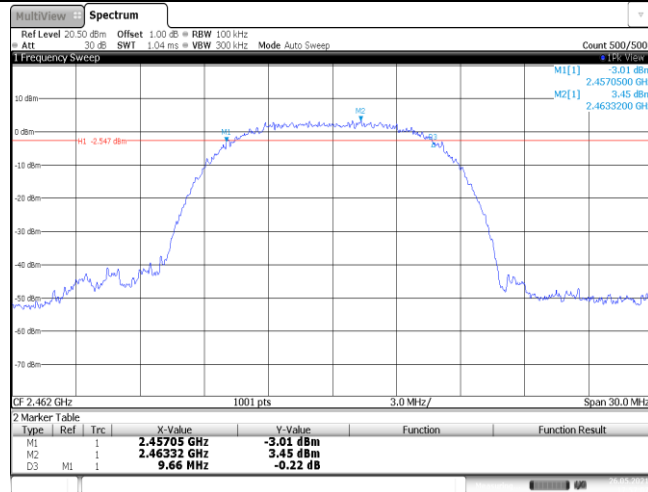
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CH06



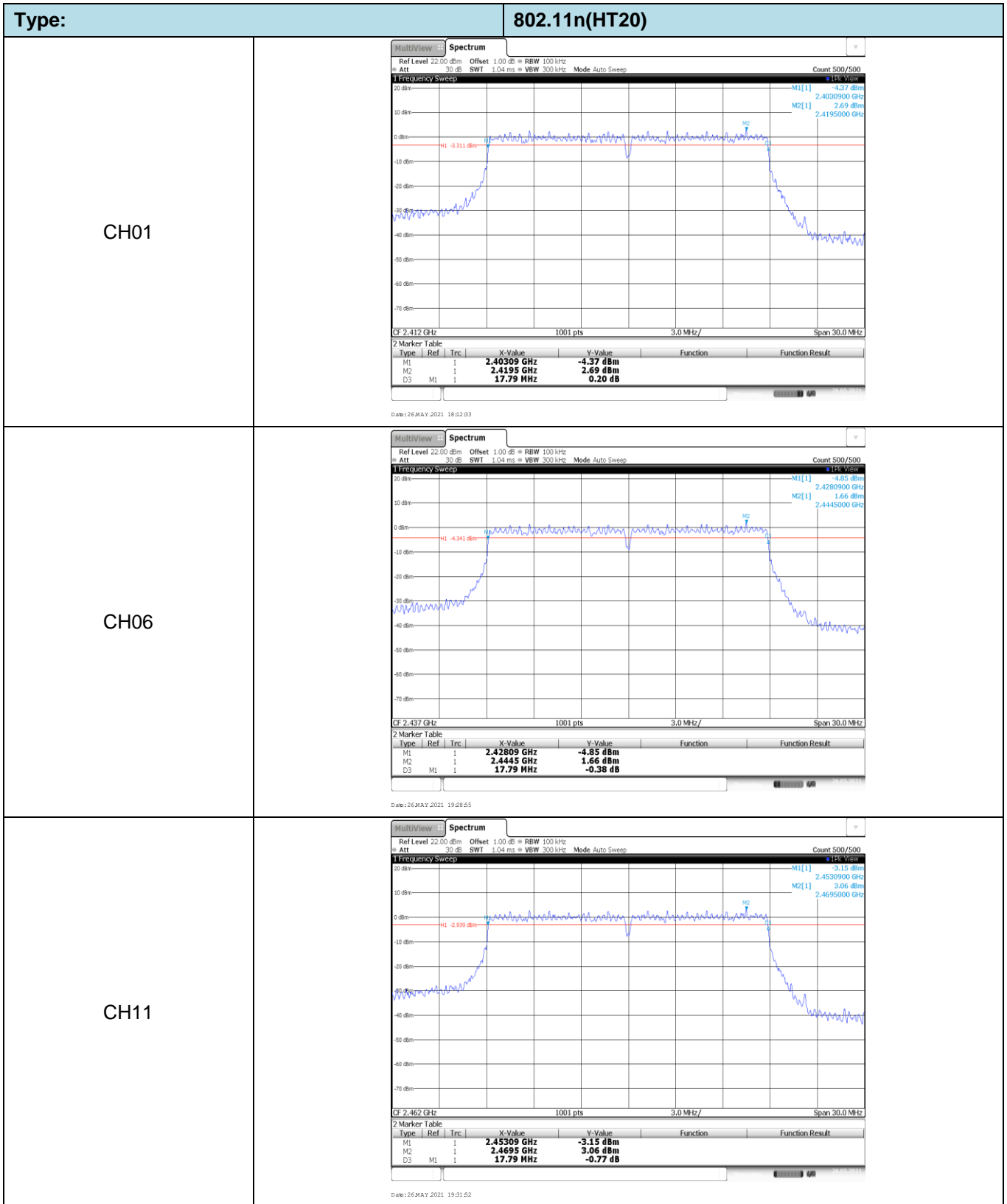
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CH11



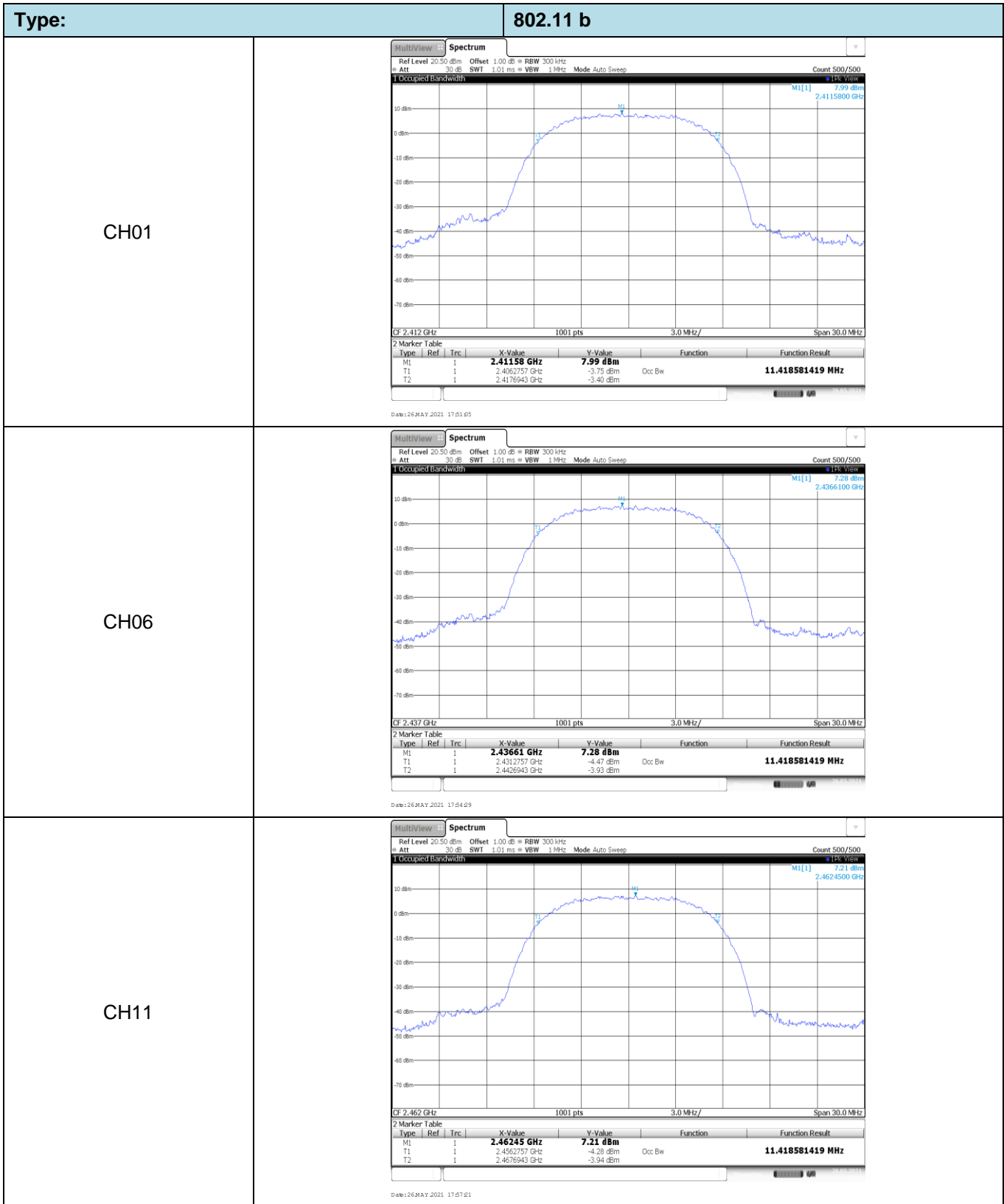
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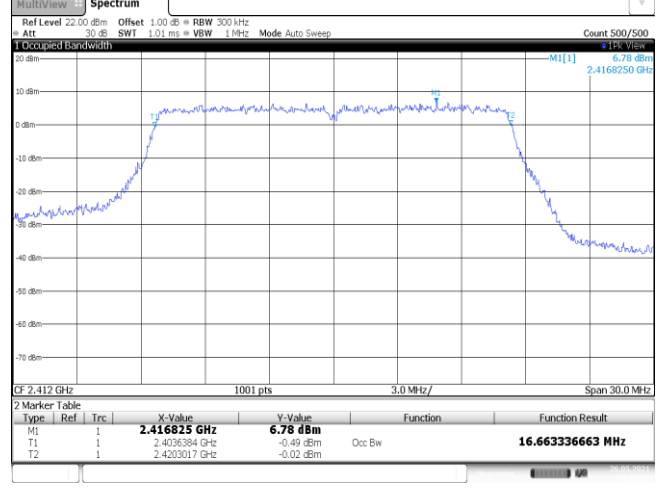
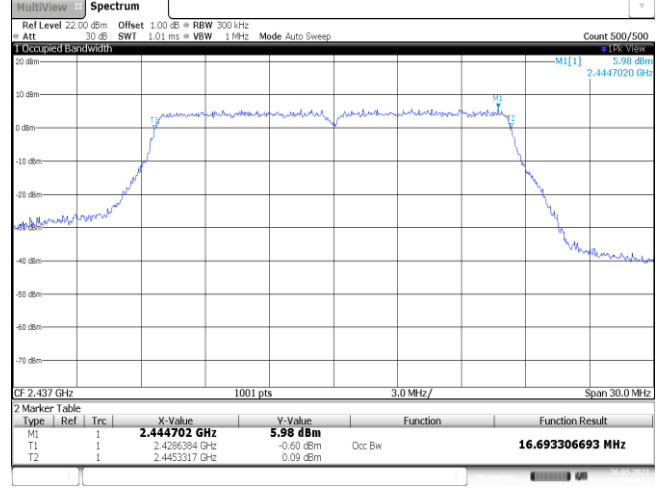
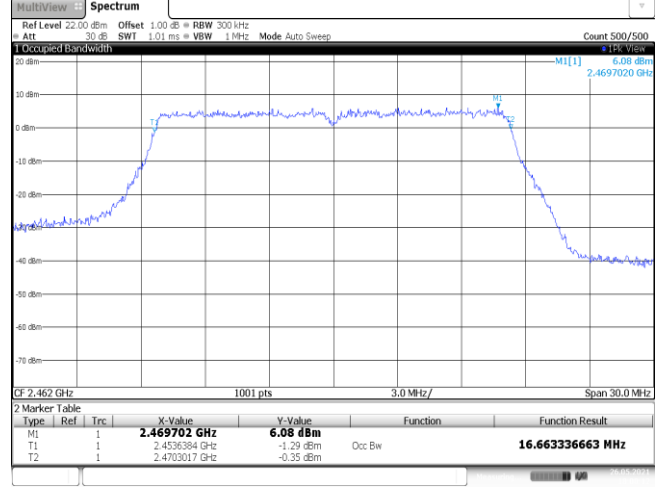
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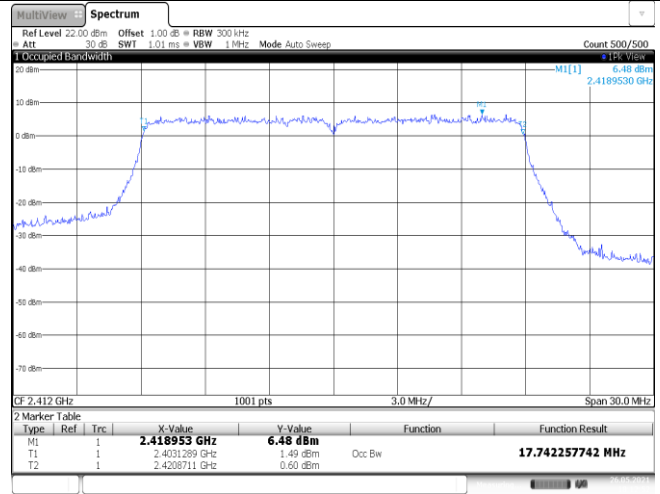
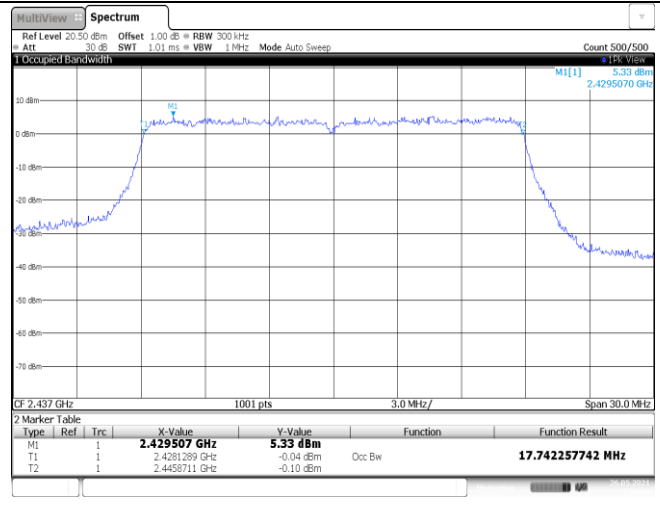
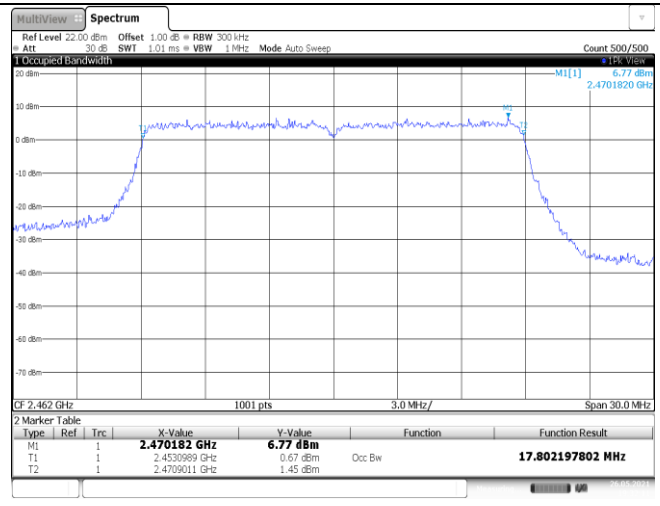


Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	11.42	-	Pass
	06	11.42		
	11	11.42		
802.11g	01	16.66	-	Pass
	06	16.69		
	11	16.66		
802.11n(HT20)	01	17.74	-	Pass
	06	17.74		
	11	17.80		

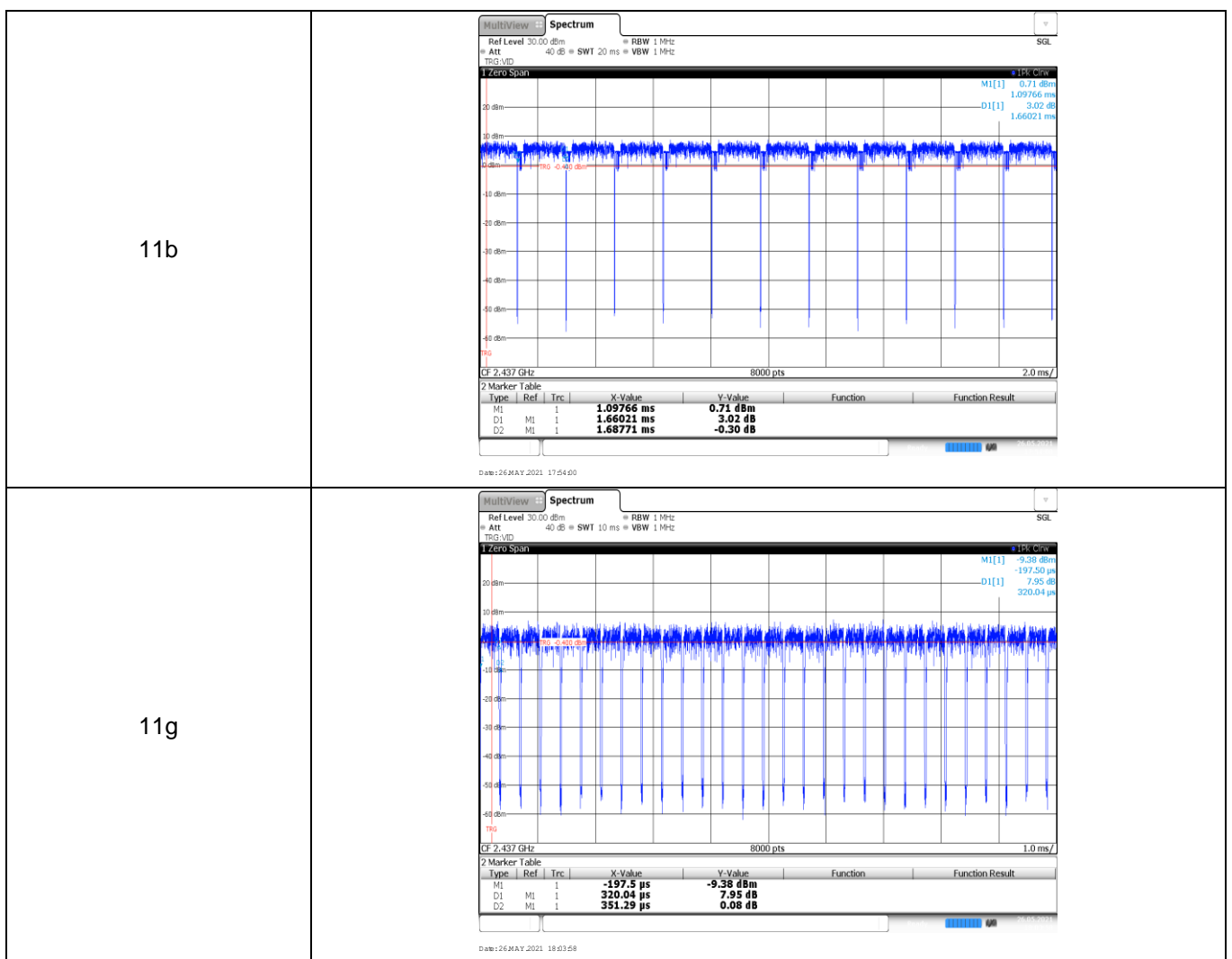


Type:	802.11 g																												
CH01	 <p>2.416825 GHz 6.78 dBm</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.416825 GHz</td> <td>6.78 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4036384 GHz</td> <td>-0.49 dBm</td> <td>Occ Bw</td> <td>16.66336663 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4203017 GHz</td> <td>-0.02 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 26 MAY 2021 18:01:11</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.416825 GHz	6.78 dBm			T1	1		2.4036384 GHz	-0.49 dBm	Occ Bw	16.66336663 MHz	T2	1		2.4203017 GHz	-0.02 dBm		
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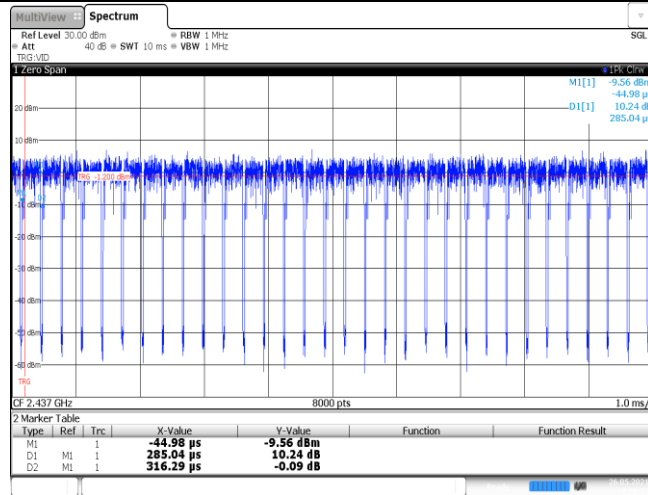
Type:	802.11n(HT20)																												
CH01	 <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.418953 GHz</td> <td>6.48 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.4031289 GHz</td> <td>1.49 dBm</td> <td>Occ Bw</td> <td>17.742257742 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4235711 GHz</td> <td>0.69 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 26 MAY 2021 18:12:53</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.418953 GHz	6.48 dBm			T1	1		2.4031289 GHz	1.49 dBm	Occ Bw	17.742257742 MHz	T2	1		2.4235711 GHz	0.69 dBm		
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M1	1		2.418953 GHz	6.48 dBm																									
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T2	1		2.4709011 GHz	1.45 dBm																									

Appendix E: Duty Cycle

Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	1.66	1.69	98.2%	0.6
11g	2437	0.32	0.35	91.4%	3.1
11n20	2437	0.29	0.32	90.6%	3.4



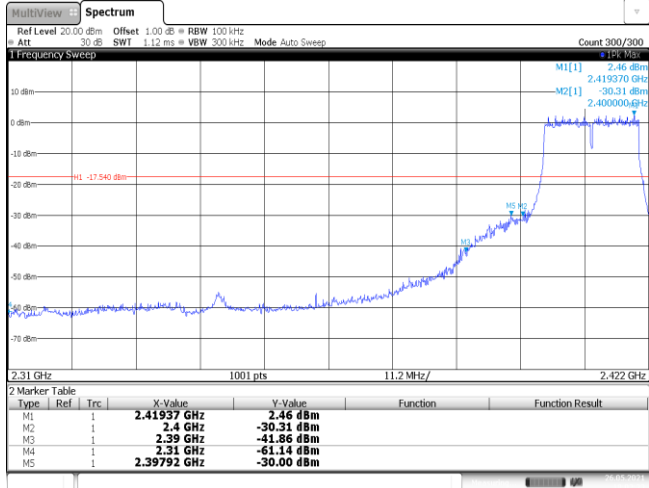
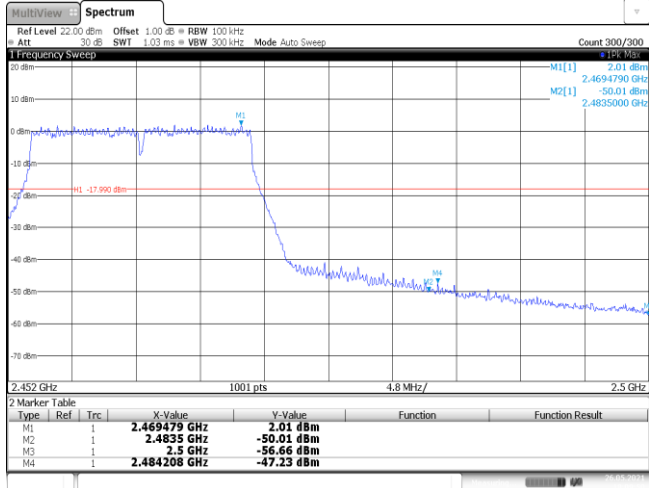
11n20

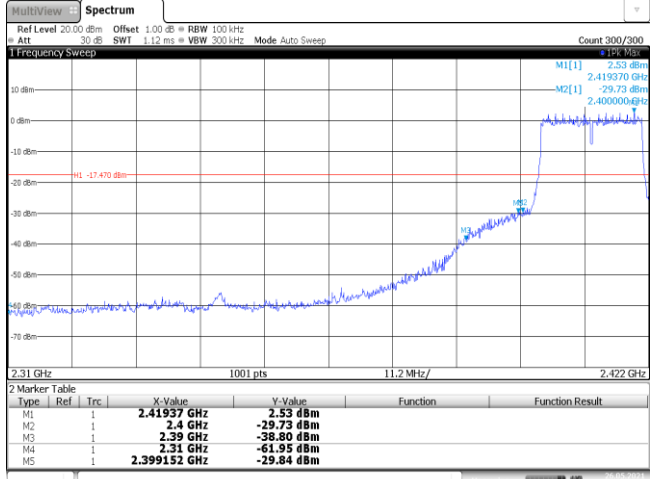
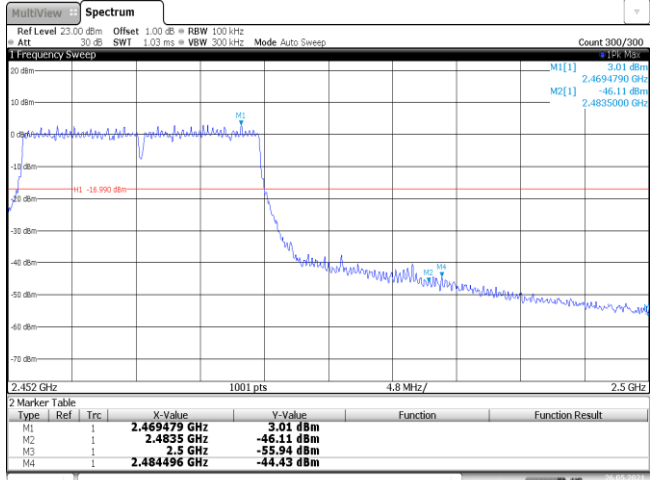


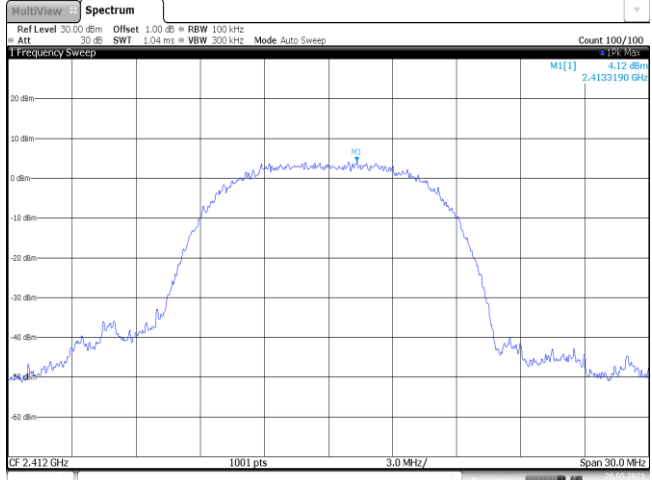
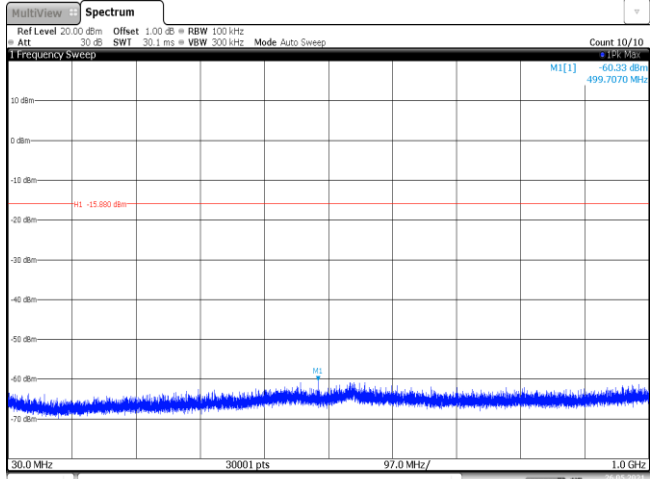
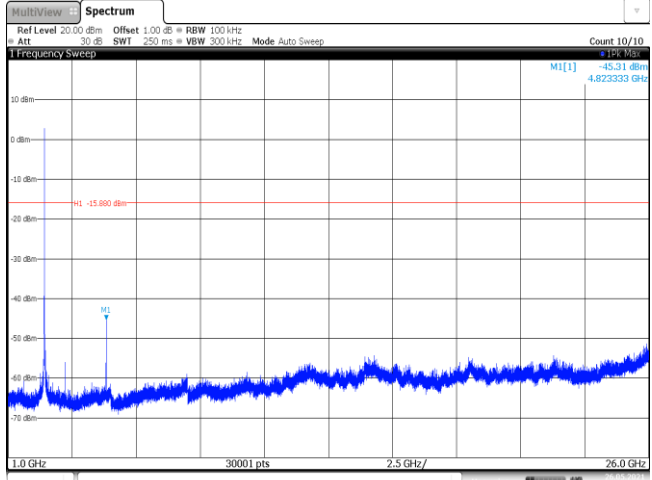
Date: 26 MAY 2021 19:28:25

Appendix F: Band edge and Spurious Emissions (conducted)

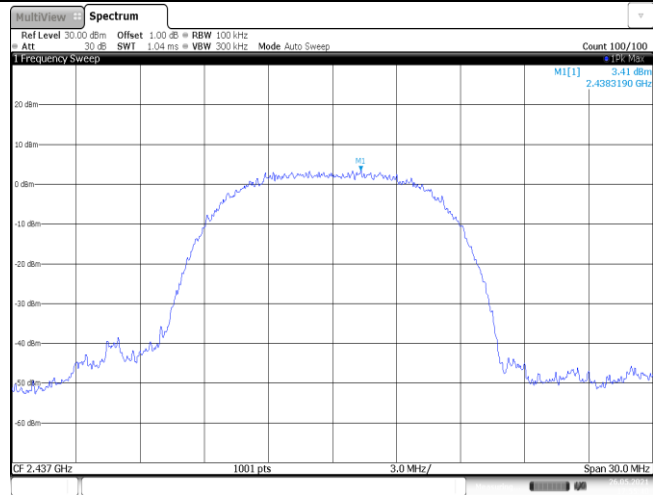
Test Item:	Bandedge	Type:	802.11 b
<p style="text-align: center;">CH01</p>	<p style="text-align: center;">Date: 26 MAY 2021 17:52:16</p>		
<p style="text-align: center;">CH11</p>	<p style="text-align: center;">Date: 26 MAY 2021 17:58:51</p>		

Test Item:	Bandedge	Type:	802.11 g																																										
CH01	 <p>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.12 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1 Frequency Sweep</p> <p>2.31 GHz 1001 pts 11.2 MHz/ 2.422 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>2.41937 GHz</td> <td>2.46 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-30.31 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-41.86 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-61.14 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.39792 GHz</td> <td>-30.00 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 26 MAY 2021 18:02:23</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41937 GHz	2.46 dBm			M2	1		2.4 GHz	-30.31 dBm			M3	1		2.39 GHz	-41.86 dBm			M4	1		2.31 GHz	-61.14 dBm			M5	1		2.39792 GHz	-30.00 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.41937 GHz	2.46 dBm																																									
M2	1		2.4 GHz	-30.31 dBm																																									
M3	1		2.39 GHz	-41.86 dBm																																									
M4	1		2.31 GHz	-61.14 dBm																																									
M5	1		2.39792 GHz	-30.00 dBm																																									
CH11	 <p>Ref Level 22.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.03 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1 Frequency Sweep</p> <p>2.452 GHz 1001 pts 4.8 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>2.469479 GHz</td> <td>2.01 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-50.01 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-56.66 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.484208 GHz</td> <td>-47.23 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 26 MAY 2021 18:09:49</p>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.469479 GHz	2.01 dBm			M2	1		2.4835 GHz	-50.01 dBm			M3	1		2.5 GHz	-56.66 dBm			M4	1		2.484208 GHz	-47.23 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.469479 GHz	2.01 dBm																																									
M2	1		2.4835 GHz	-50.01 dBm																																									
M3	1		2.5 GHz	-56.66 dBm																																									
M4	1		2.484208 GHz	-47.23 dBm																																									

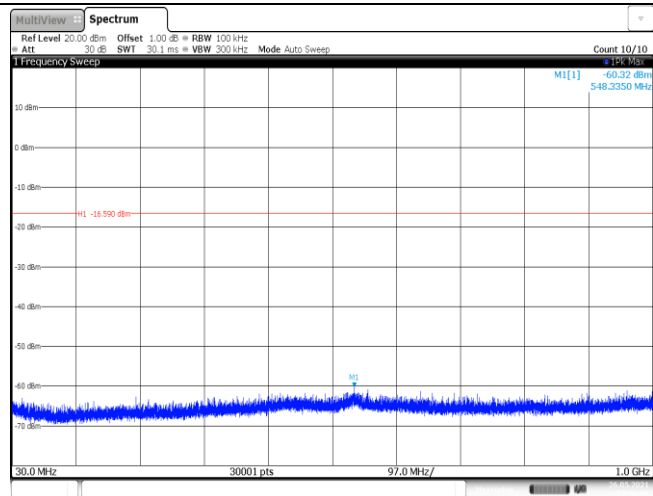
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

Test Item:	SE	Type:	802.11 b
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<p>CH01 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] -60.33 dBm 499.7070 MHz H1 -15.880 dBm MI 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 26 MAY 2021 17:52:56</p>	
<p>CH01 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] -45.31 dBm 4.823533 GHz H1 -15.880 dBm MI 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 26 MAY 2021 17:53:18</p>	

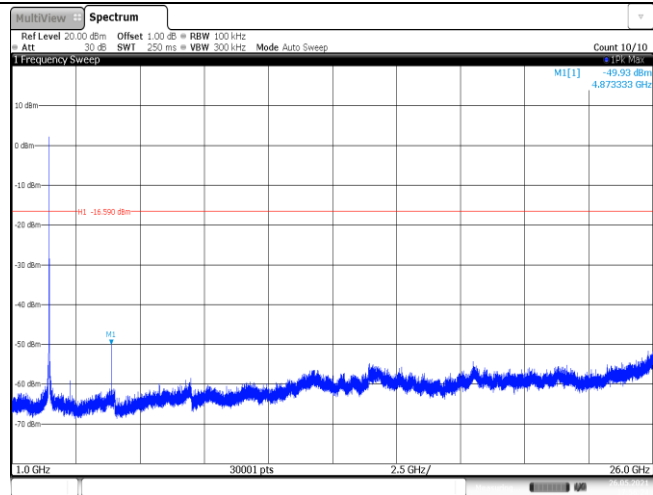
CH06
Reference level



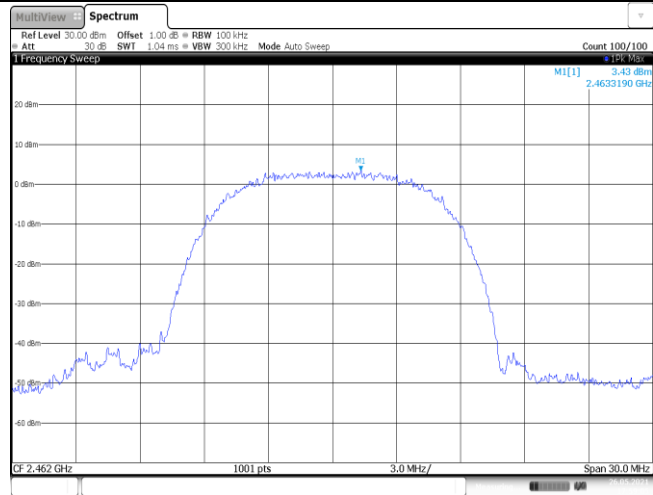
CH06
30MHz~1000MHz



CH06
1GHz~26GHz

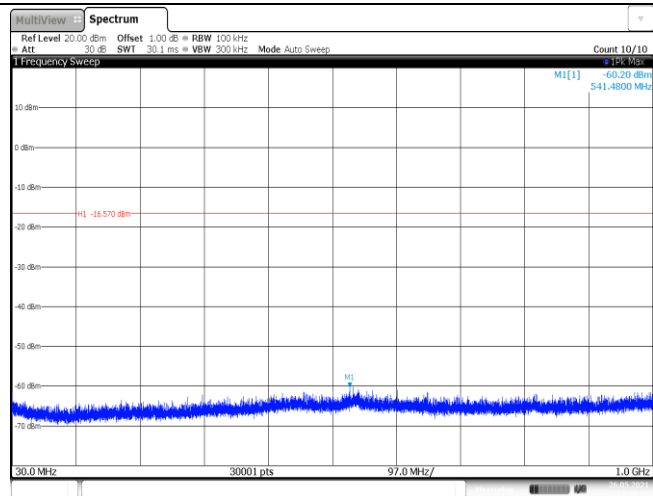


CH11
Reference level



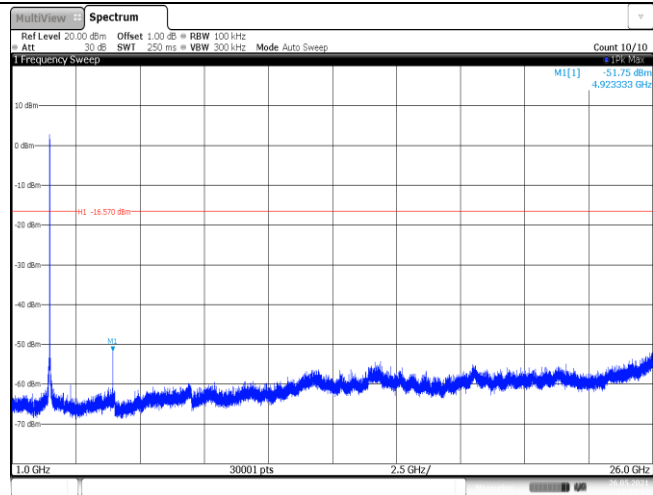
Date: 26 MAY 2021 17:59:05

CH11
30MHz~1000MHz

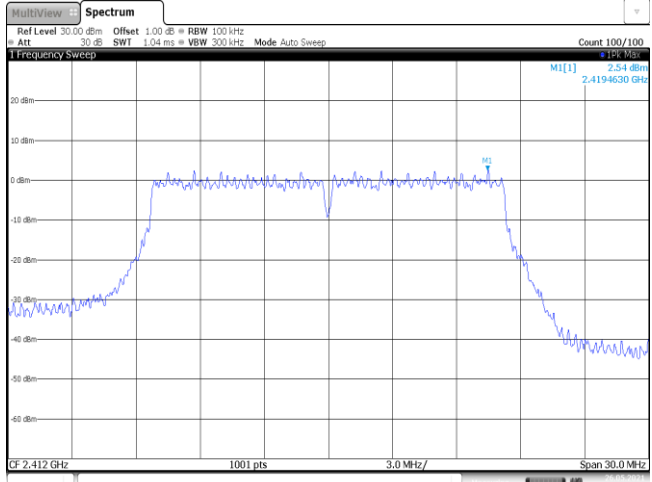
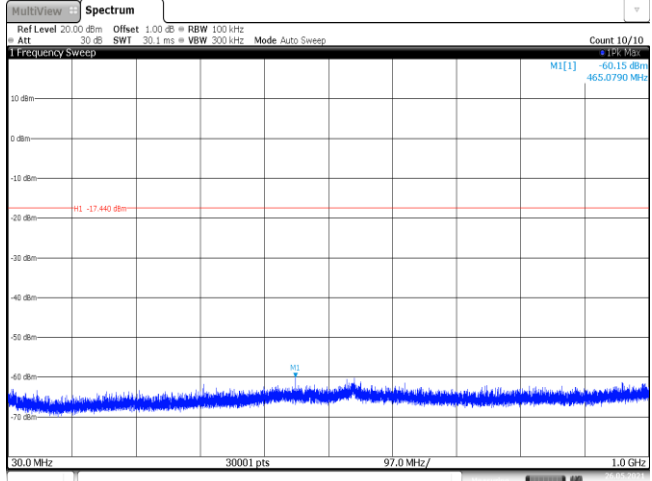
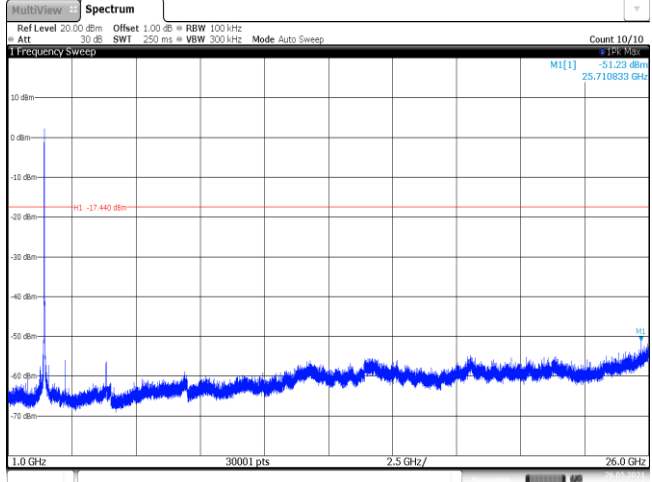


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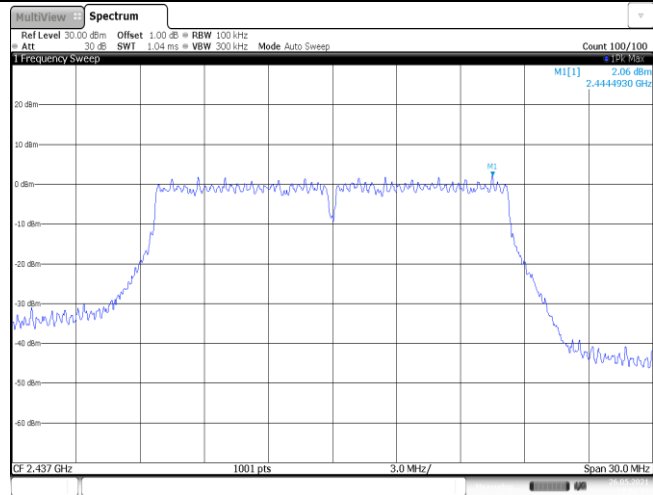
CH11
1GHz~26GHz



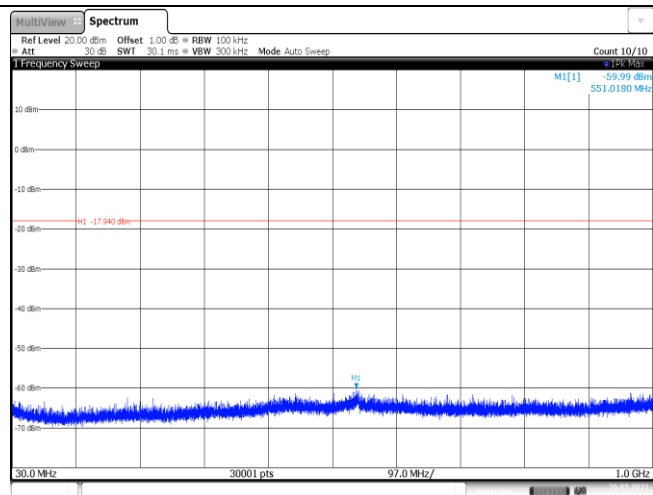
Date: 26 MAY 2021 17:59:49

Test Item:	SE	Type:	802.11 g
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<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

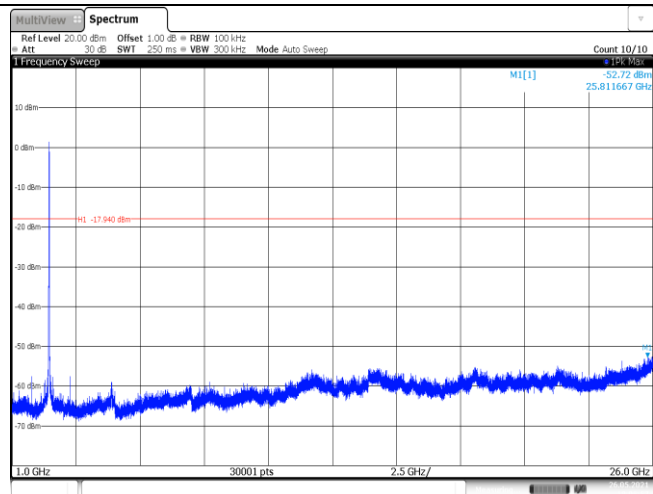
CH06
Reference level



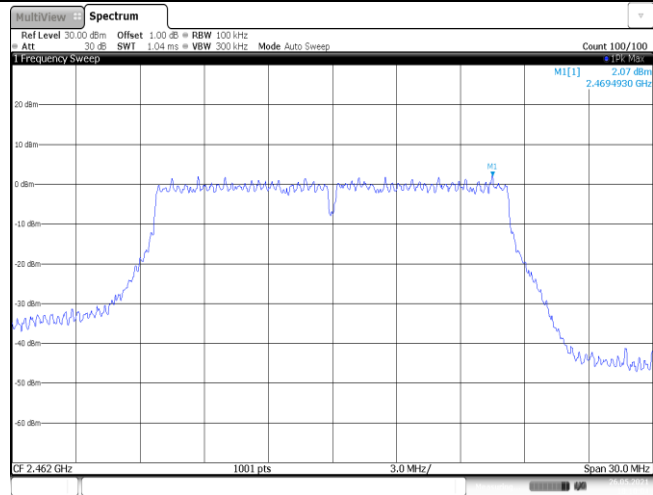
CH06
30MHz~1000MHz



CH06
1GHz~26GHz

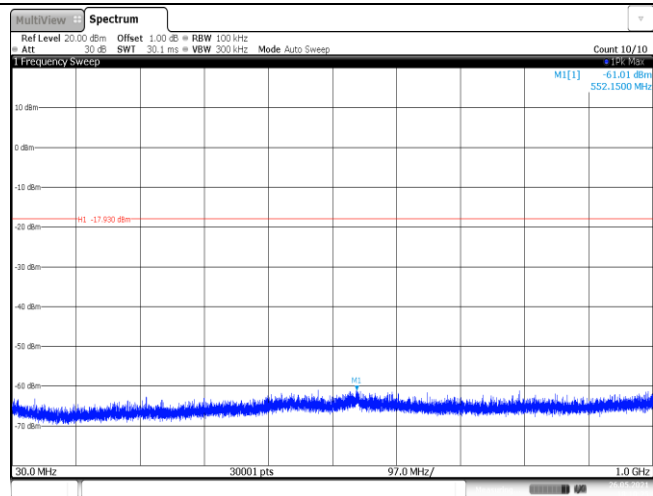


CH11
Reference level



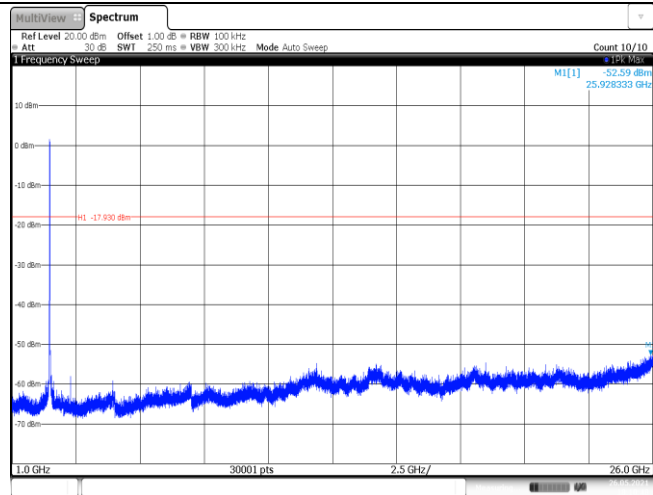
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CH11
30MHz~1000MHz

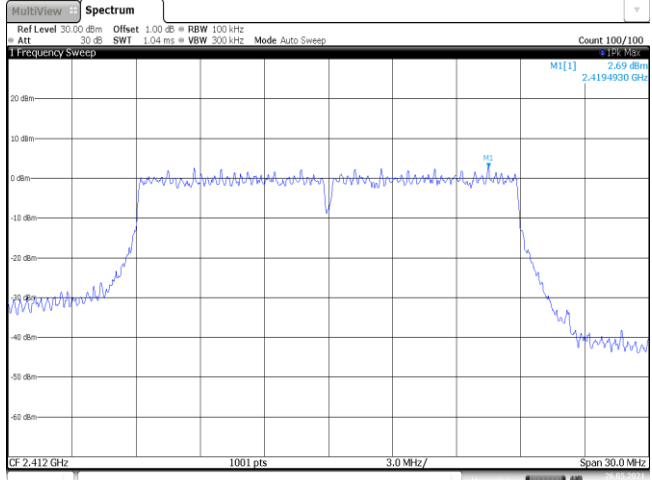
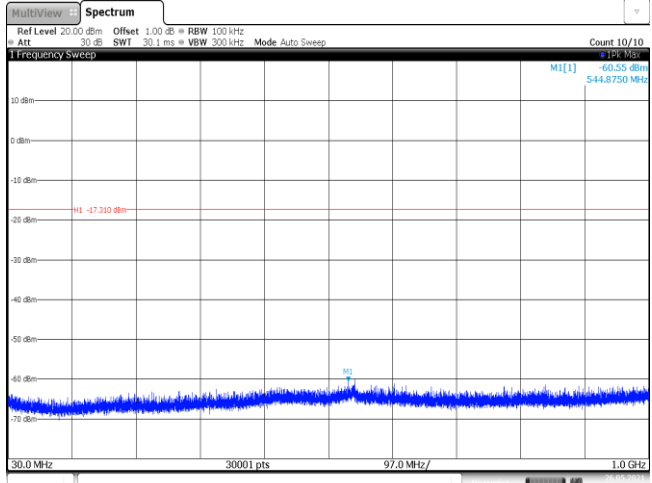
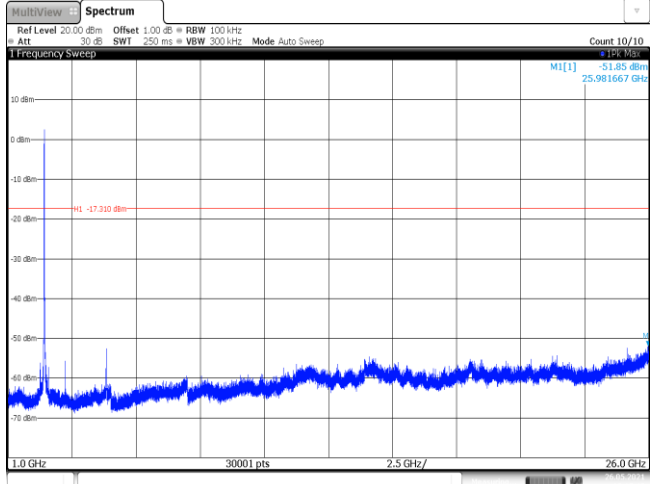


Date: 26 MAY 2021 18:10:25

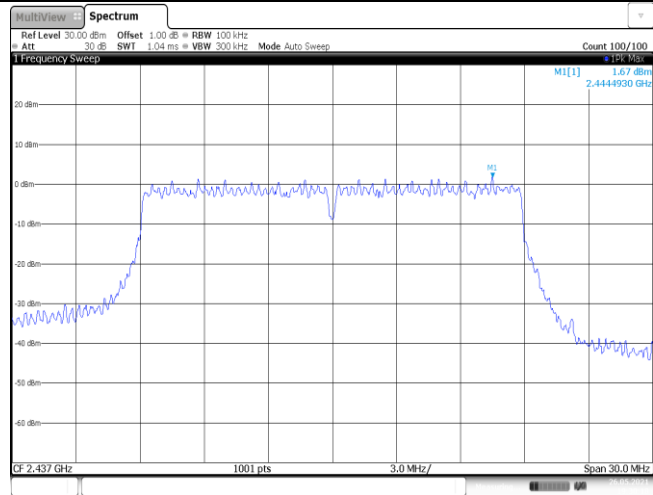
CH11
1GHz~26GHz



Date: 26 MAY 2021 18:10:47

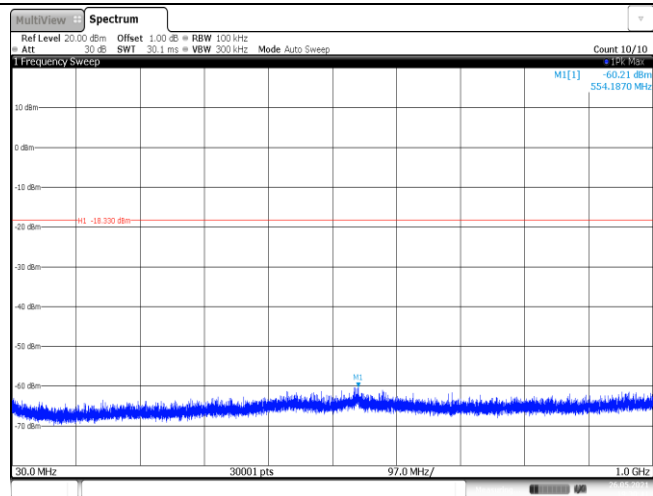
Test Item:	SE	Type:	802.11 n(HT20)
<p>CH01 Reference level</p>			 <p>Ref Level 30.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 100/100 MI[1] 2.69 dBm 2.4194930 GHz CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz Date: 26 MAY 2021 18:17:06</p>
<p>CH01 30MHz~1000MHz</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] -60.55 dBm 544.8750 MHz -17.210 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date: 26 MAY 2021 18:17:27</p>
<p>CH01 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] -51.95 dBm 25.981667 GHz -17.210 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date: 26 MAY 2021 18:17:49</p>

CH06
Reference level



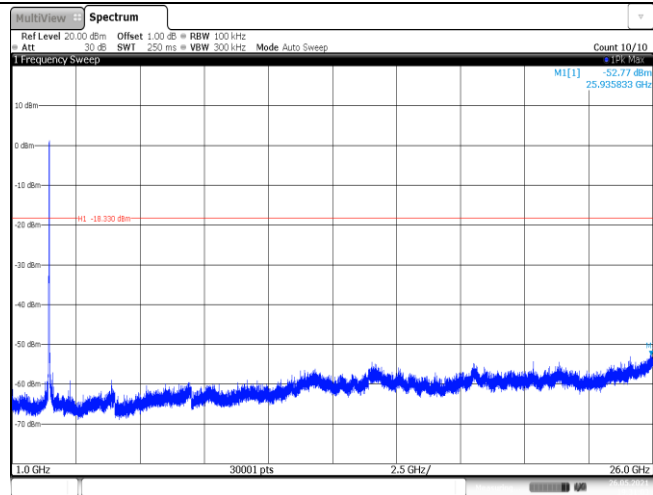
Date: 26 MAY 2021 19:00:19

CH06
30MHz~1000MHz



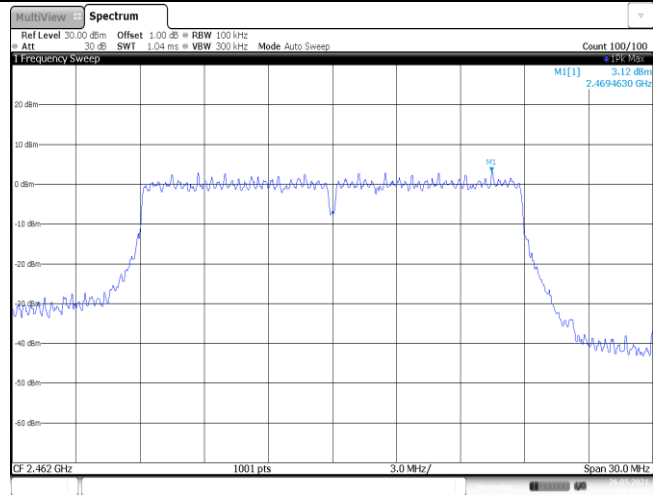
Date: 26 MAY 2021 19:00:40

CH06
1GHz~26GHz

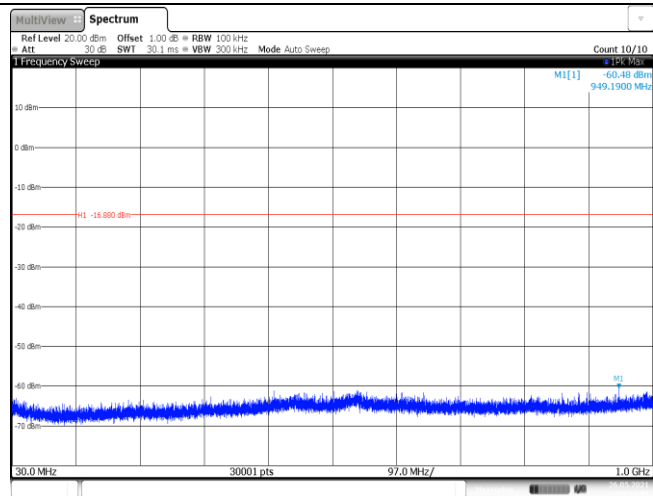


Date: 26 MAY 2021 19:01:03

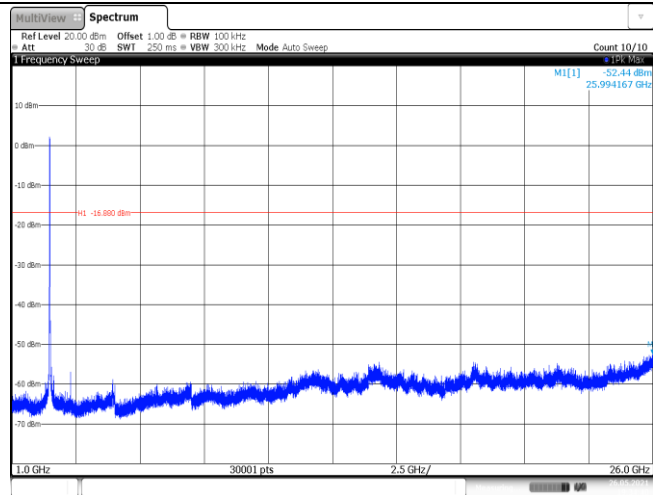
CH11
Reference level



CH11
30MHz~1000MHz



CH11
1GHz~26GHz



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