

APPENDIX REPORT

Project No.	SHT2107048003EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21070480016	Model No.	CT9F8A
Start test date	2021-07-19	Finish date	2021-07-19
Temperature	25.3°C	Humidity	34%
Test Engineer	Hailey Chen	Auditor	Xiaodong Zhu

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

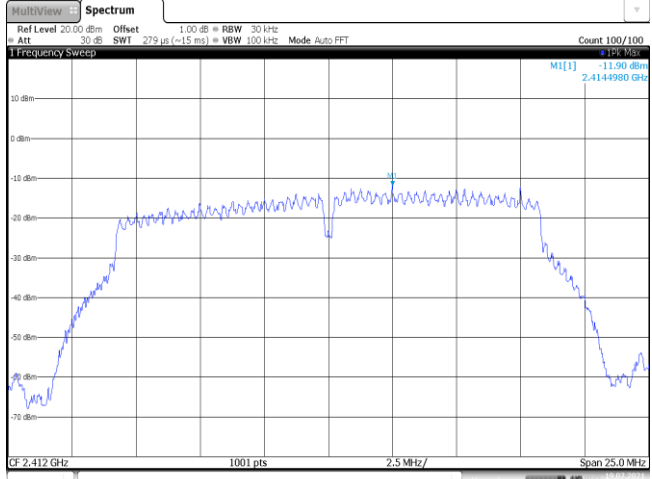
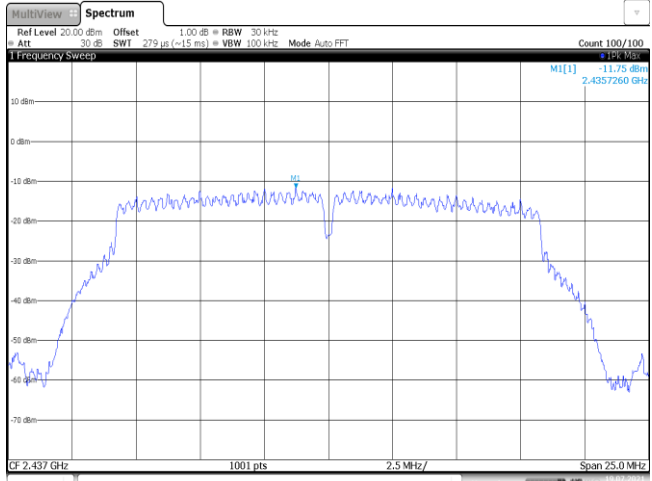
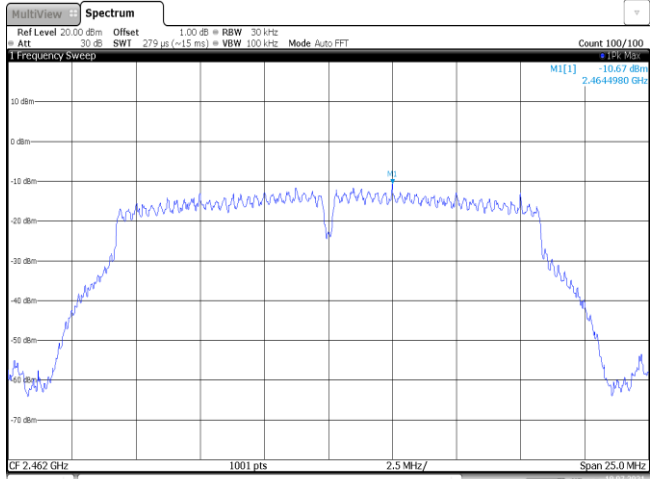
Appendix A: Conducted Peak Output Power

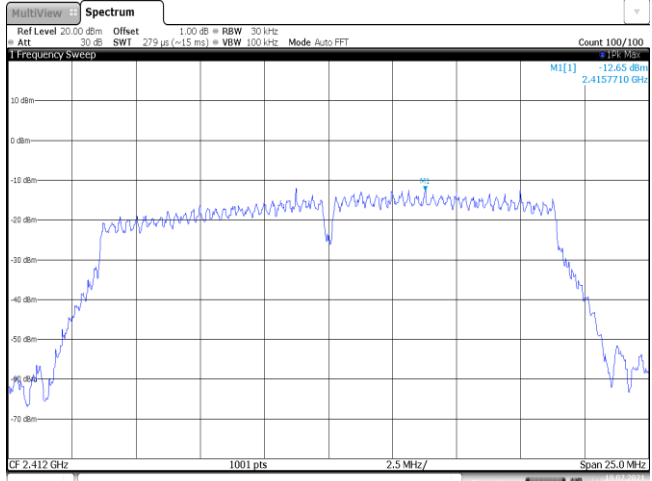
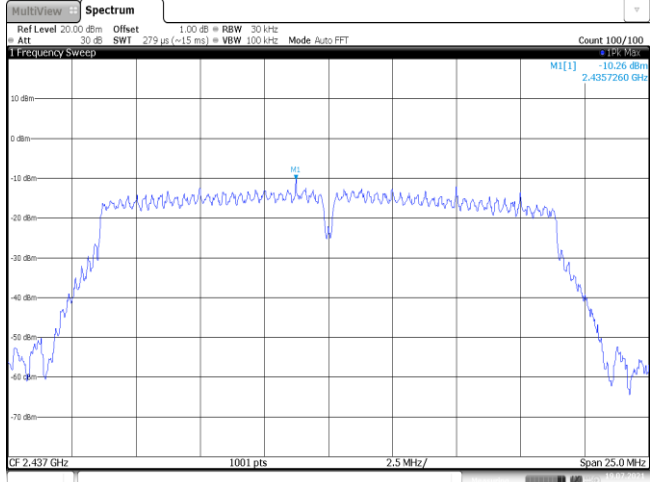
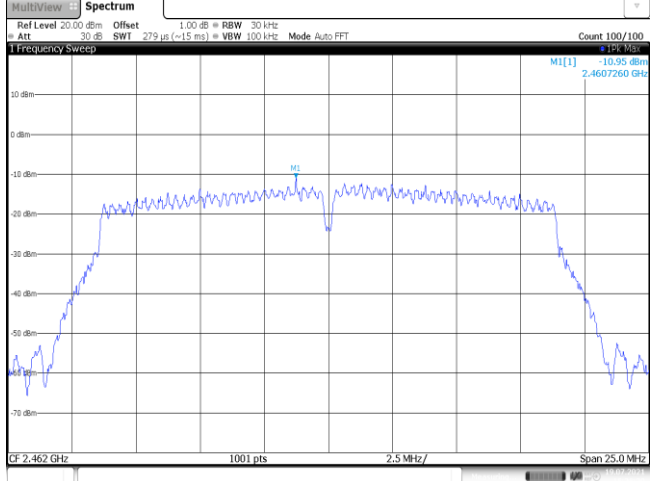
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	11.61	9.20	≤ 30.00	Pass
	06	12.58	10.38		
	11	12.47	10.04		
802.11g	01	11.66	9.87	≤ 30.00	Pass
	06	12.83	10.43		
	11	12.56	10.25		
802.11n (HT20)	01	11.56	9.42	≤ 30.00	Pass
	06	12.74	10.58		
	11	12.37	10.09		

Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-2.16	≤8.00	Pass
	06	-1.01		
	11	-0.97		
802.11g	01	-11.90	≤8.00	Pass
	06	-11.75		
	11	-10.67		
802.11n(HT20)	01	-12.65	≤8.00	Pass
	06	-10.26		
	11	-10.95		

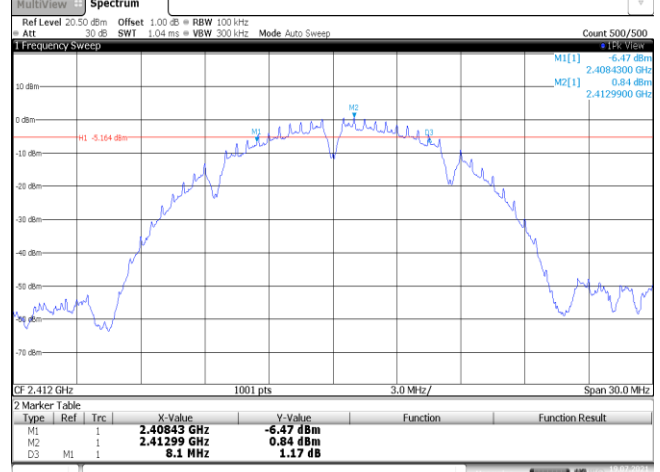
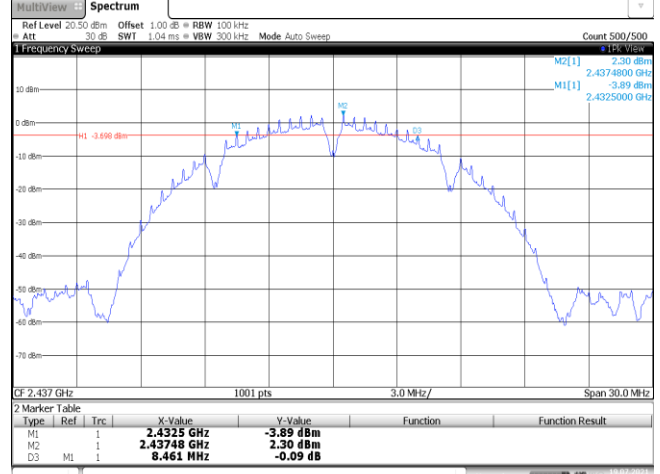
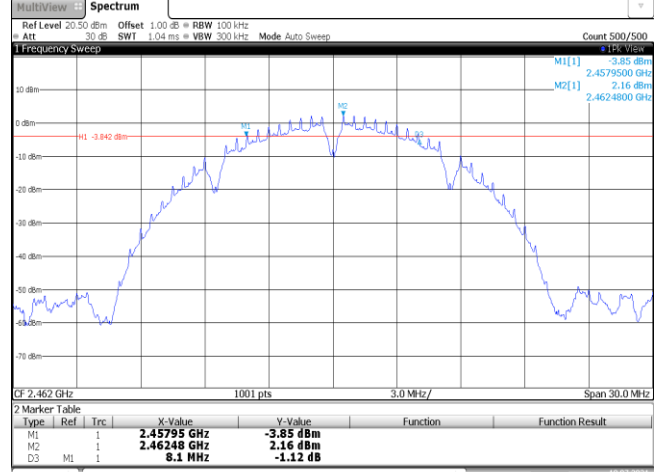
Type:	802.11 b	
CH01	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep</p> <p>Count 100/100 MI[1] -2.16 dBm 2.4124960 GHz</p> <p>CF 2.412 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz</p> <p>Date: 19-Jul-2021 14:56:29</p>	
CH06	<p>Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 1.78 ms VBW 100 kHz Mode Auto Sweep</p> <p>Count 100/100 MI[1] -1.01 dBm 2.4364890 GHz</p> <p>CF 2.437 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz</p> <p>Date: 19-Jul-2021 14:56:44</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</p> <p>Count 100/100 MI[1] -0.97 dBm 2.4624960 GHz</p> <p>CF 2.462 GHz 1001 pts 1.6 MHz/ Span 16.0 MHz</p> <p>Date: 19-Jul-2021 15:00:19</p>	

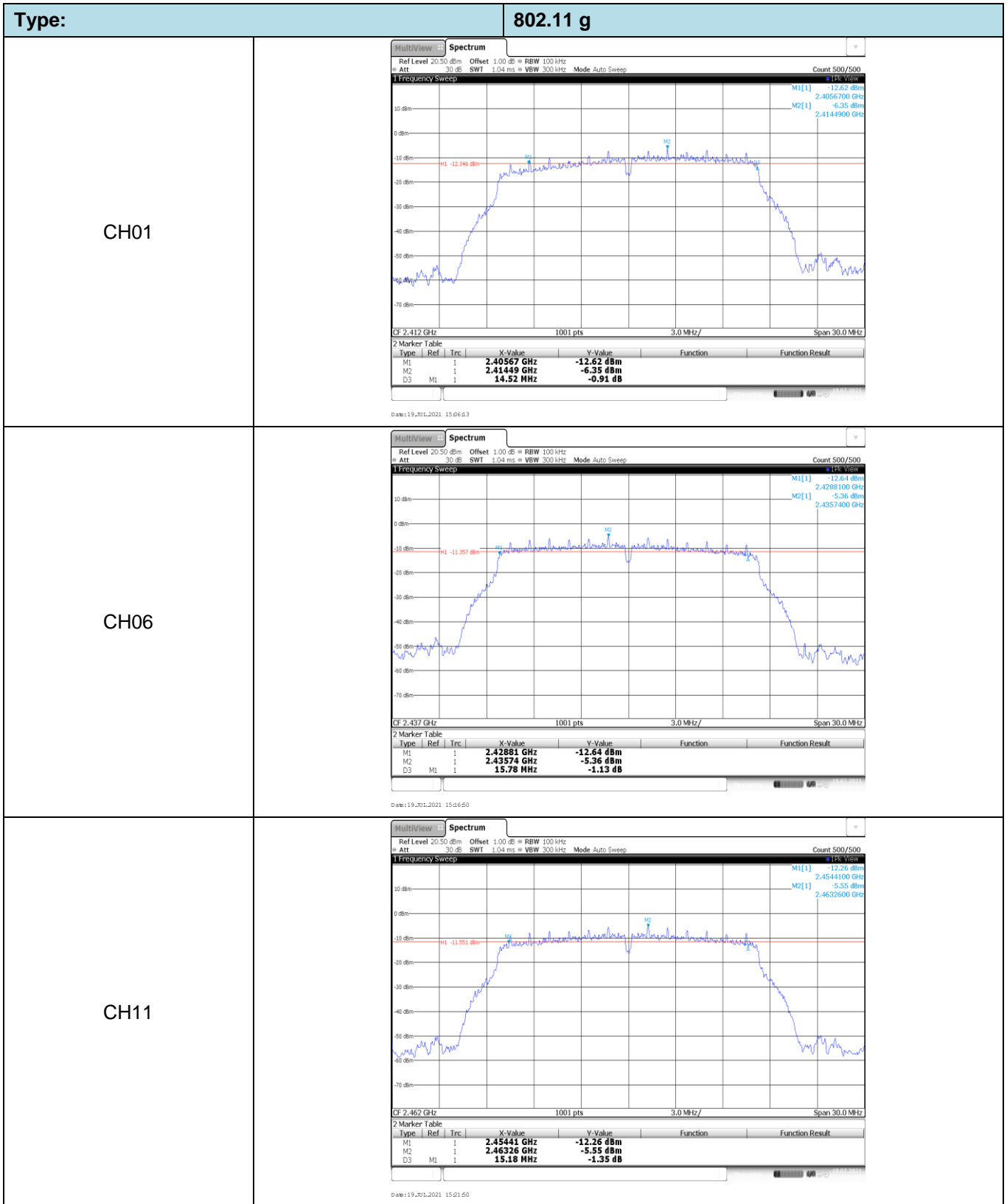
Type:	802.11 g
CH01	 <p>MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 us (-1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100 1 Frequency Sweep MI[1] -11.90 dBm 2.4144980 GHz CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 19-Jul-2021 15:14:10</p>
CH06	 <p>MultiView 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] -11.75 dBm 2.4357260 GHz CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 19-Jul-2021 15:17:60</p>
CH11	 <p>MultiView 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] -10.67 dBm 2.4644980 GHz CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz Date: 19-Jul-2021 15:23:04</p>

Type:		802.11n(HT20)
CH01	 <p>1 Frequency Sweep</p> <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</p> <p>Count 100/100</p> <p>M1[1] -12.65 dBm 2.4157710 GHz</p> <p>CF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz</p> <p>Date: 19-Jul-2021 15:27:04</p>	
CH06	 <p>1 Frequency Sweep</p> <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</p> <p>Count 100/100</p> <p>M1[1] -10.26 dBm 2.4357260 GHz</p> <p>CF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz</p> <p>Date: 19-Jul-2021 15:28:02</p>	
CH11	 <p>1 Frequency Sweep</p> <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</p> <p>Count 100/100</p> <p>M1[1] -10.95 dBm 2.4607260 GHz</p> <p>CF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz</p> <p>Date: 19-Jul-2021 15:26:29</p>	

Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	8.10	≥0.5	Pass
	06	8.46		
	11	8.10		
802.11g	01	14.52	≥0.5	Pass
	06	15.78		
	11	15.18		
802.11n(HT20)	01	15.12	≥0.5	Pass
	06	16.02		
	11	15.18		

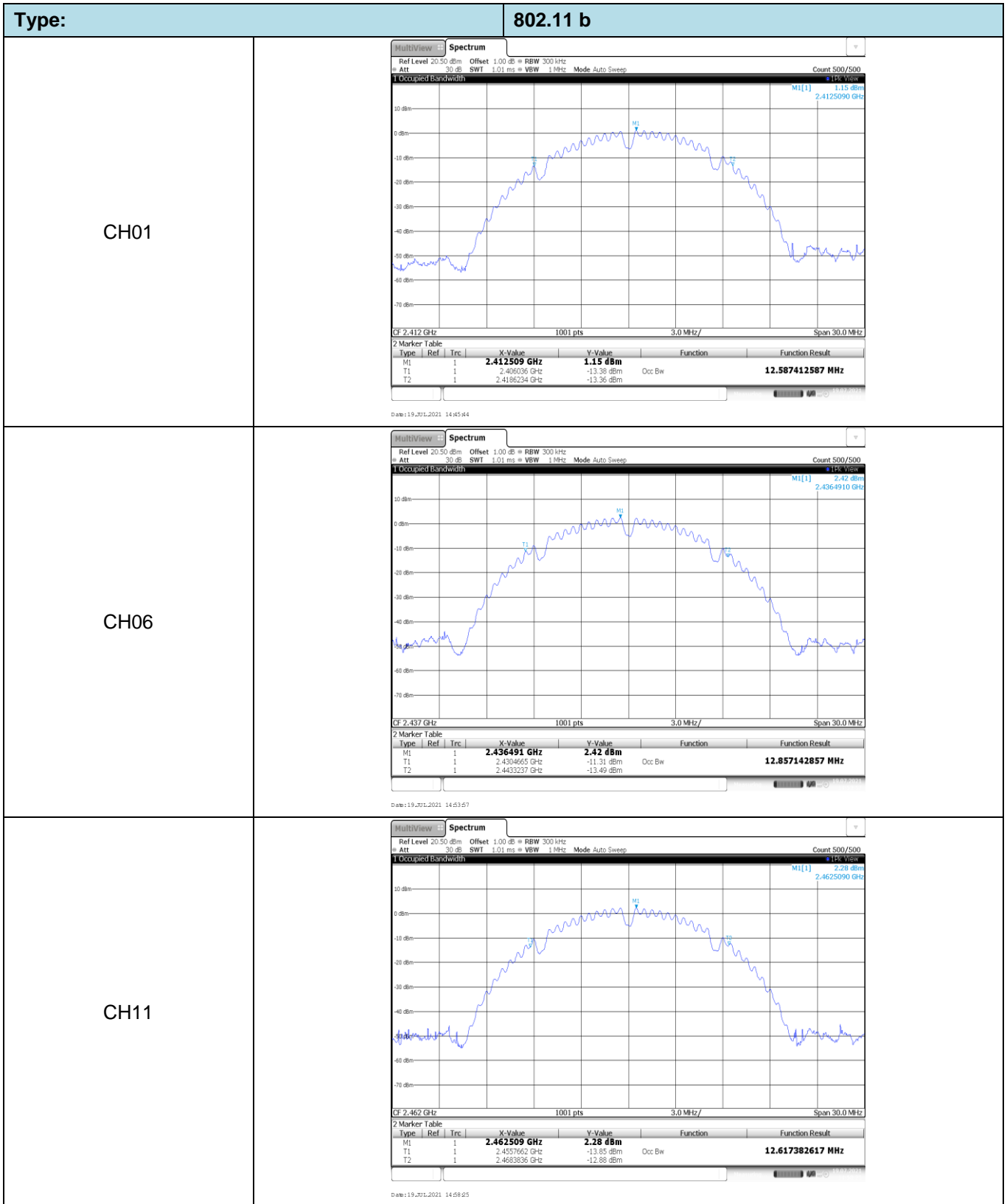
Type:	802.11 b																												
CH01	 <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.04 ms VBW 300 kHz Mode Auto Sweep Count 500/500</p> <p>1 Frequency Sweep</p> <p>2 Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40843 GHz</td> <td>-6.47 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.41299 GHz</td> <td>0.84 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>8.1 MHz</td> <td>1.17 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19_JUL_2021 16:36:26</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40843 GHz	-6.47 dBm			M2	1		2.41299 GHz	0.84 dBm			D3	M1	1	8.1 MHz	1.17 dB		
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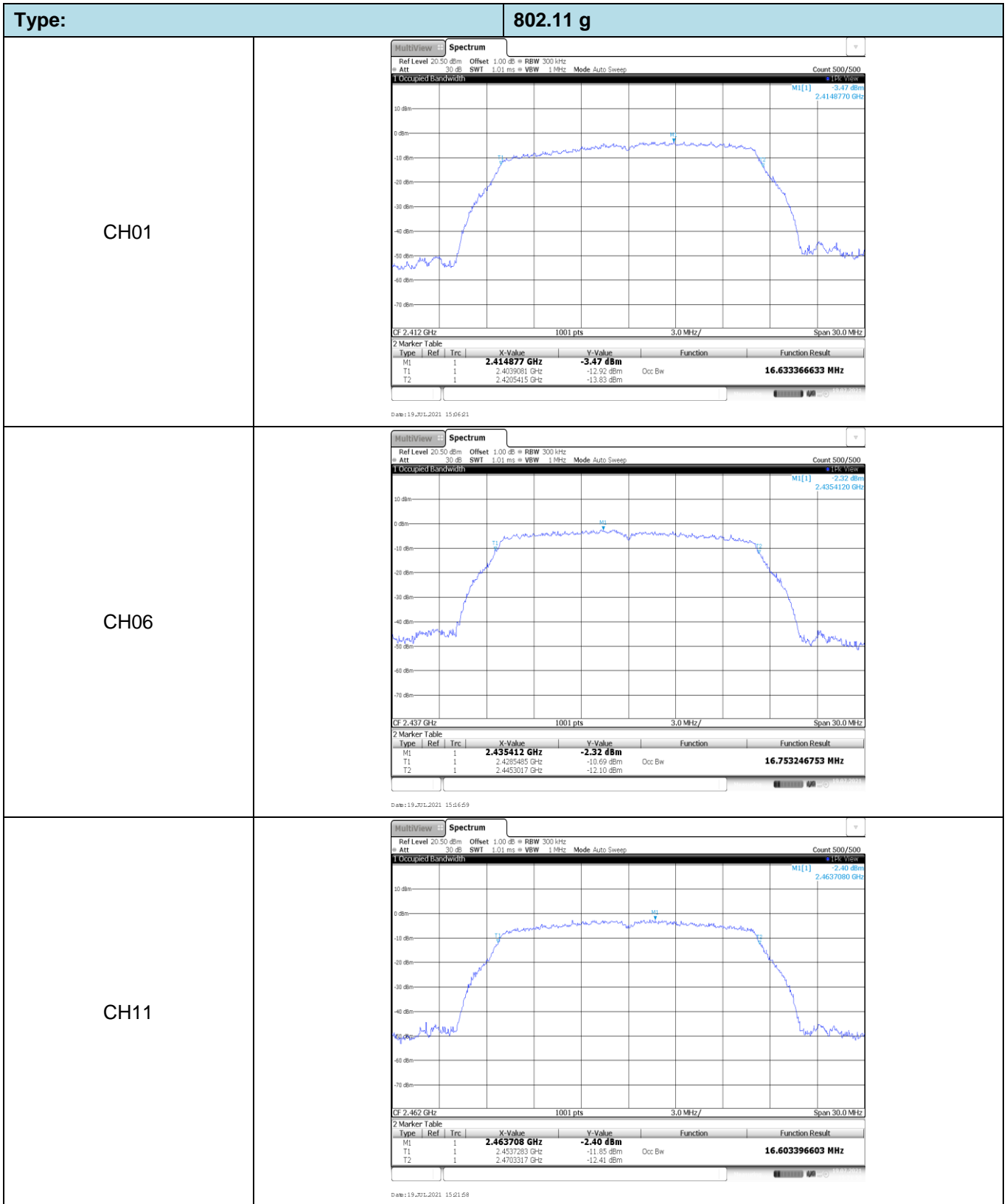


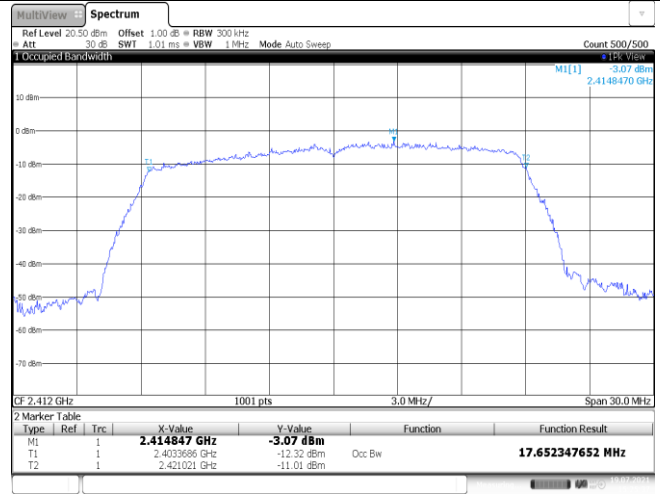
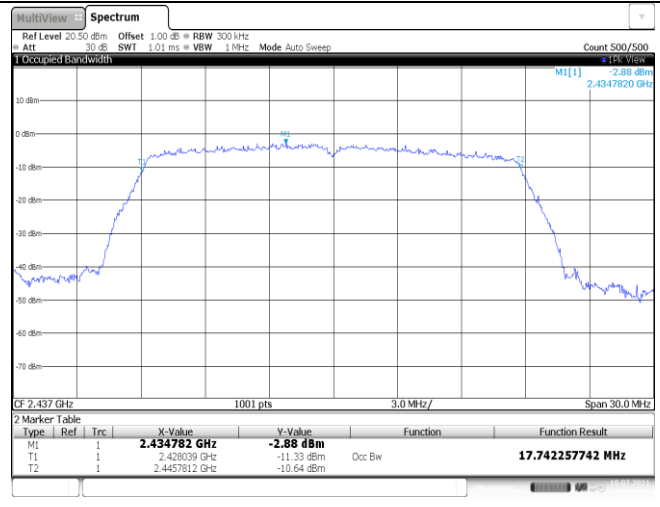
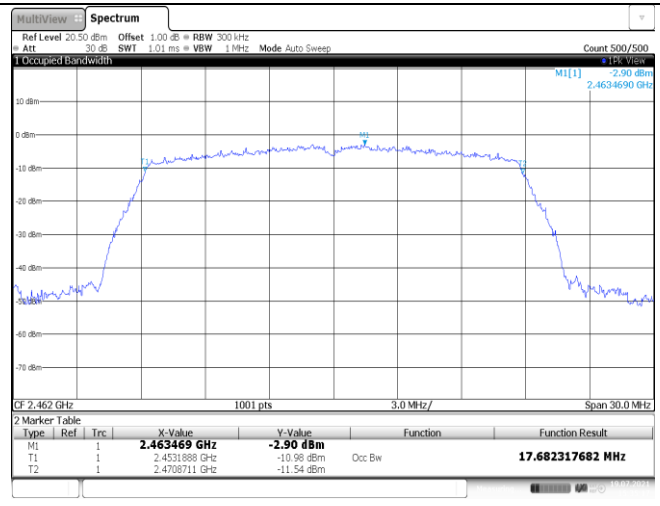
Type:	802.11n(HT20)																												
CH01	<p>Marker Table</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-Value</th> <th>Y-Value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>2.40567 GHz</td> <td>-13.01 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.41698 GHz</td> <td>-6.45 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>15.12 MHz</td> <td>0.11 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1		1	2.40567 GHz	-13.01 dBm			M2		1	2.41698 GHz	-6.45 dBm			D3	M1	1	15.12 MHz	0.11 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
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CH06	<p>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></td> <td>1</td> <td>2.42857 GHz</td> <td>-12.17 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td></td> <td>1</td> <td>2.43574 GHz</td> <td>-5.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>D3</td> <td>M1</td> <td>1</td> <td>16.02 MHz</td> <td>-1.76 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1		1	2.42857 GHz	-12.17 dBm			M2		1	2.43574 GHz	-5.40 dBm			D3	M1	1	16.02 MHz	-1.76 dB		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1		1	2.42857 GHz	-12.17 dBm																									
M2		1	2.43574 GHz	-5.40 dBm																									
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M2		1	2.46074 GHz	-5.44 dBm																									
D3	M1	1	15.18 MHz	-1.09 dB																									

Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	12.59	-	Pass
	06	12.86		
	11	12.62		
802.11g	01	16.63	-	Pass
	06	16.75		
	11	16.60		
802.11n(HT20)	01	17.65	-	Pass
	06	17.74		
	11	17.68		

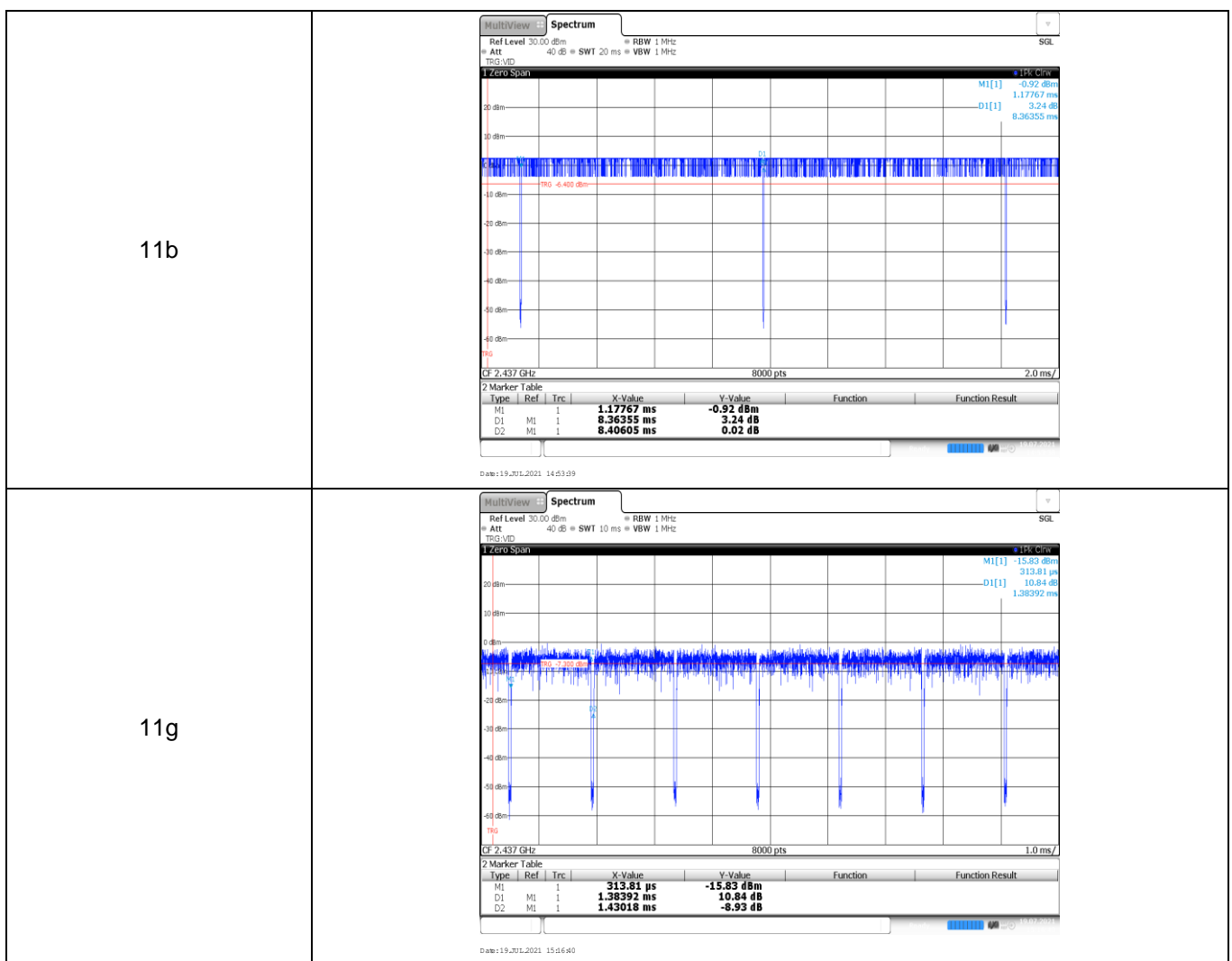




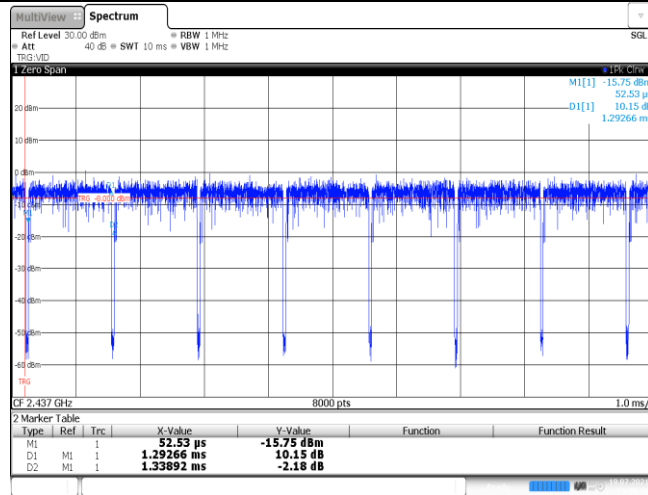
Type:	802.11n(HT20)																												
CH01	 <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>Occupied Bandwidth</p> <p>MI[1] 3.07 dBm 2.4148470 GHz</p> <p>CF 2.412 GHz 1001 pts 3.0 MHz/ Span 30.0 MHz</p> <table border="1"> <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>2.414847 GHz</td> <td>-3.07 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.403686 GHz</td> <td>-12.32 dBm</td> <td>Occ Bw</td> <td>17.652347652 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.421021 GHz</td> <td>-11.01 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19-Jul-2021 15:25:07</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.414847 GHz	-3.07 dBm			T1	1		2.403686 GHz	-12.32 dBm	Occ Bw	17.652347652 MHz	T2	1		2.421021 GHz	-11.01 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.414847 GHz	-3.07 dBm																									
T1	1		2.403686 GHz	-12.32 dBm	Occ Bw	17.652347652 MHz																							
T2	1		2.421021 GHz	-11.01 dBm																									
CH06	 <p>Ref Level 20.50 dBm Offset 1.00 dB RBW 300 kHz Att 30 dB SWI 1.01 ms VBW 1 MHz Mode Auto Sweep Count 500/500</p> <p>Occupied Bandwidth</p> <p>MI[1] 2.88 dBm 2.4347820 GHz</p> <p>CF 2.437 GHz 1001 pts 3.0 MHz/ Span 30.0 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>2.434782 GHz</td> <td>-2.88 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>2.426039 GHz</td> <td>-11.33 dBm</td> <td>Occ Bw</td> <td>17.742257742 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>2.4457812 GHz</td> <td>-10.64 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 19-Jul-2021 15:20:28</p>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.434782 GHz	-2.88 dBm			T1	1		2.426039 GHz	-11.33 dBm	Occ Bw	17.742257742 MHz	T2	1		2.4457812 GHz	-10.64 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
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Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																							
M1	1		2.463469 GHz	-2.90 dBm																									
T1	1		2.4531888 GHz	-10.98 dBm	Occ Bw	17.682317682 MHz																							
T2	1		2.4738711 GHz	-11.54 dBm																									

Appendix E: Duty Cycle

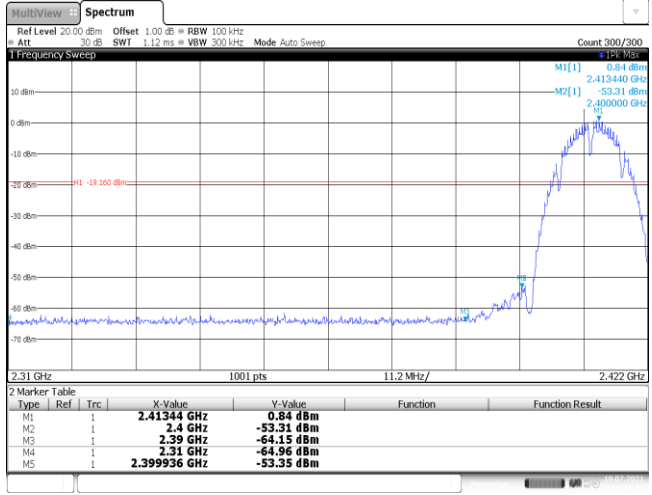
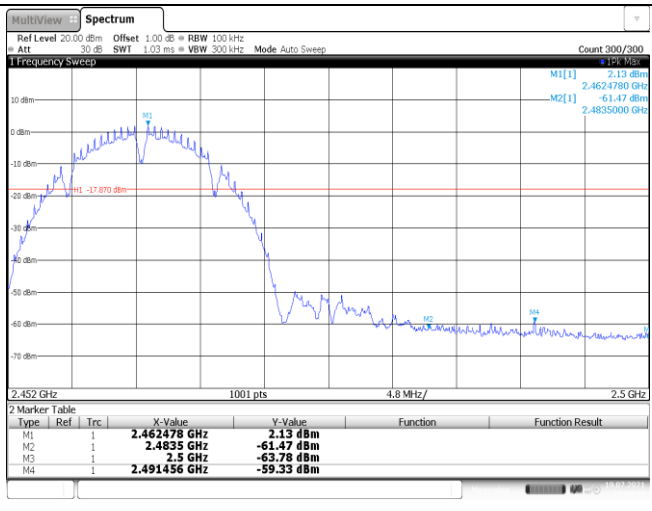
Modulation Type	Test Frequency (MHz)	T _{on time} for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on time} (kHz)
11b	2437	8.36	8.41	99.4%	0.1
11g	2437	1.38	1.43	96.5%	0.7
11n20	2437	1.29	1.34	96.3%	0.8

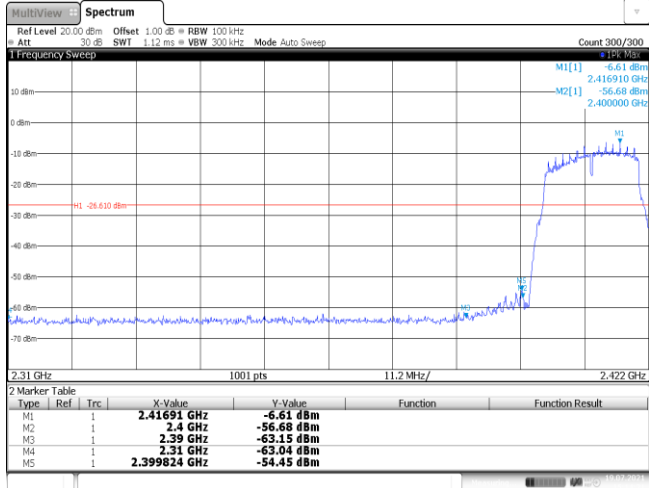
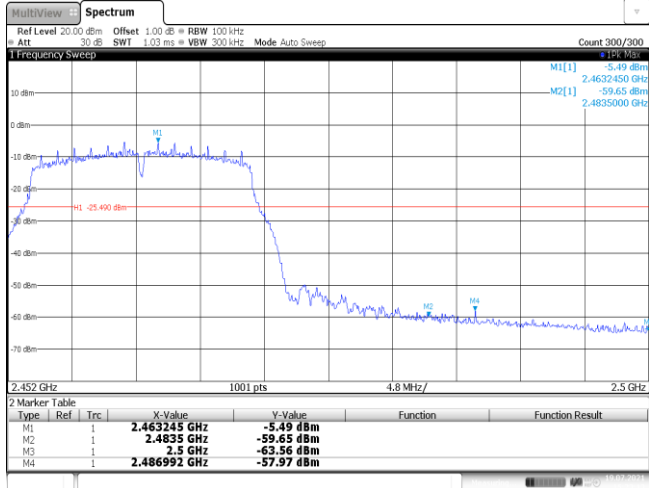


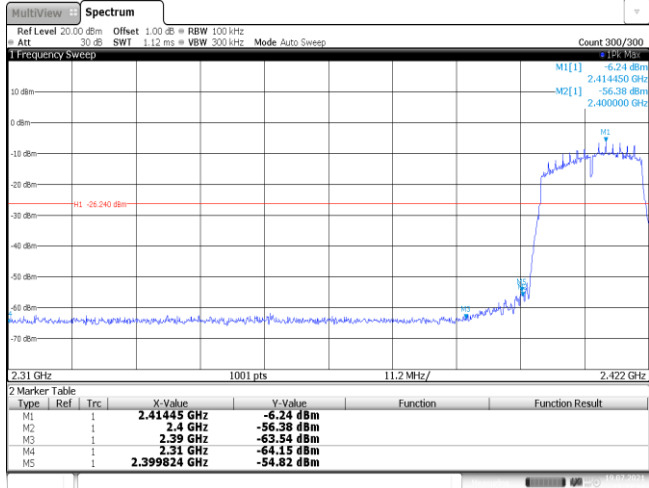
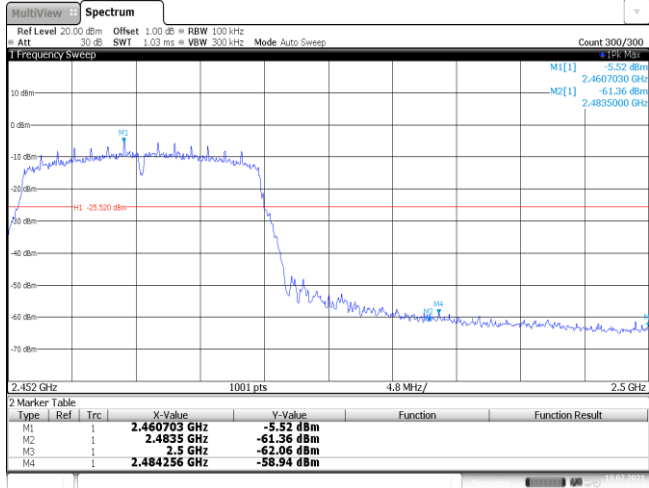
11n20

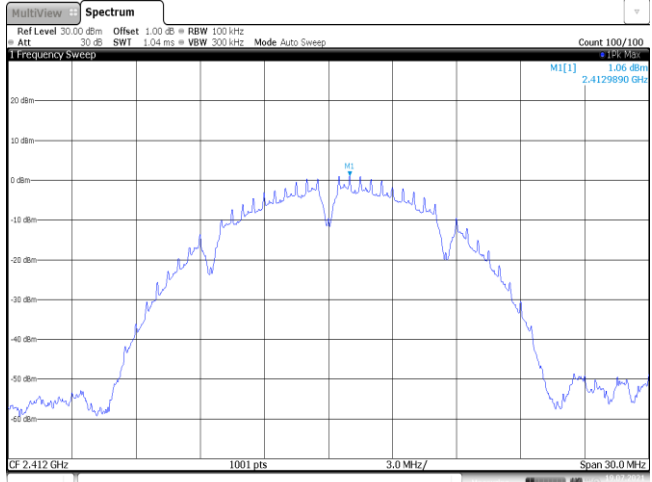
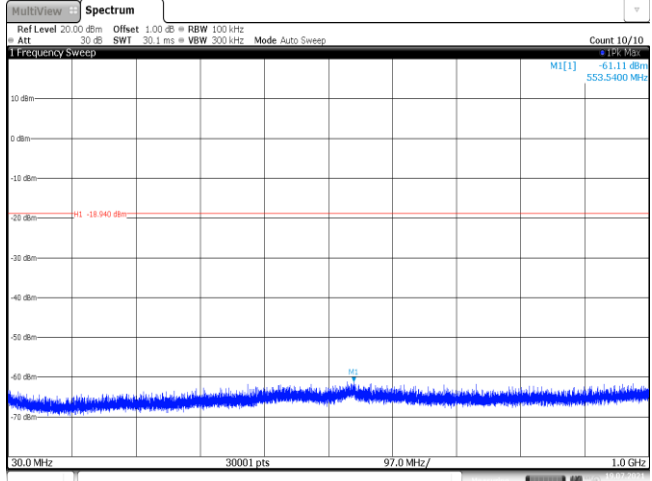
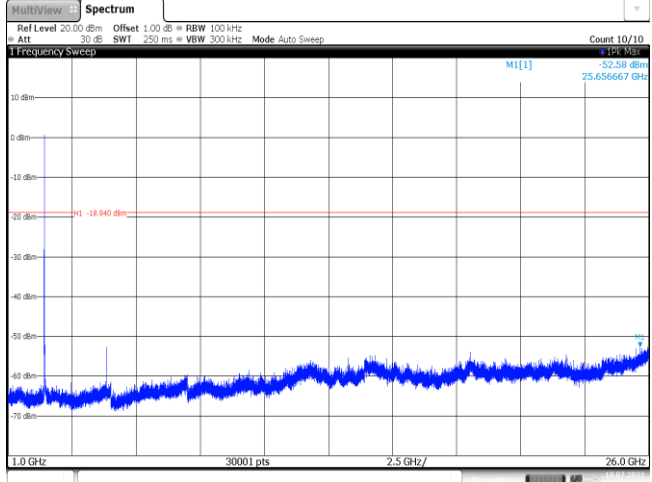


Appendix F: Band edge and Spurious Emissions (conducted)

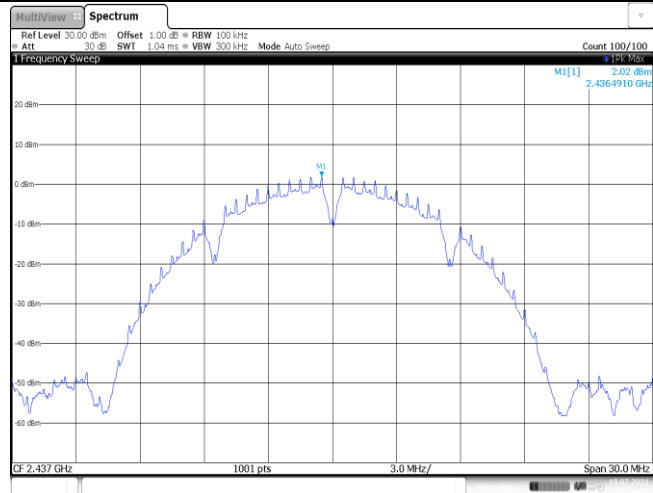
Test Item:	Bandedge	Type:	802.11 b
<p style="text-align: center;">CH01</p>	 <p style="text-align: center;">Date: 19.7.2021 16:48:43</p>		
<p style="text-align: center;">CH11</p>	 <p style="text-align: center;">Date: 19.7.2021 15:50:29</p>		

Test Item:	Bandedge	Type:	802.11 g																																										
CH01		 <table border="1" data-bbox="683 607 1334 696"> <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>2.41691 GHz</td> <td>-6.61 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-56.68 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-63.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-63.04 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399824 GHz</td> <td>-54.45 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41691 GHz	-6.61 dBm			M2	1		2.4 GHz	-56.68 dBm			M3	1		2.39 GHz	-63.15 dBm			M4	1		2.31 GHz	-63.04 dBm			M5	1		2.399824 GHz	-54.45 dBm			
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M2	1		2.4 GHz	-56.68 dBm																																									
M3	1		2.39 GHz	-63.15 dBm																																									
M4	1		2.31 GHz	-63.04 dBm																																									
M5	1		2.399824 GHz	-54.45 dBm																																									
CH11		 <table border="1" data-bbox="683 1144 1334 1234"> <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>2.463245 GHz</td> <td>-5.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-59.65 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-63.56 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.486992 GHz</td> <td>-57.97 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.463245 GHz	-5.49 dBm			M2	1		2.4835 GHz	-59.65 dBm			M3	1		2.5 GHz	-63.56 dBm			M4	1		2.486992 GHz	-57.97 dBm										
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M4	1		2.486992 GHz	-57.97 dBm																																									

Test Item:	Bandedge	Type:	802.11 n(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>2.41445 GHz</td> <td>-6.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-56.38 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-63.54 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-64.15 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399824 GHz</td> <td>-54.82 dBm</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41445 GHz	-6.24 dBm			M2	1		2.4 GHz	-56.38 dBm			M3	1		2.39 GHz	-63.54 dBm			M4	1		2.31 GHz	-64.15 dBm			M5	1		2.399824 GHz	-54.82 dBm			
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M3	1		2.5 GHz	-62.06 dBm																																									
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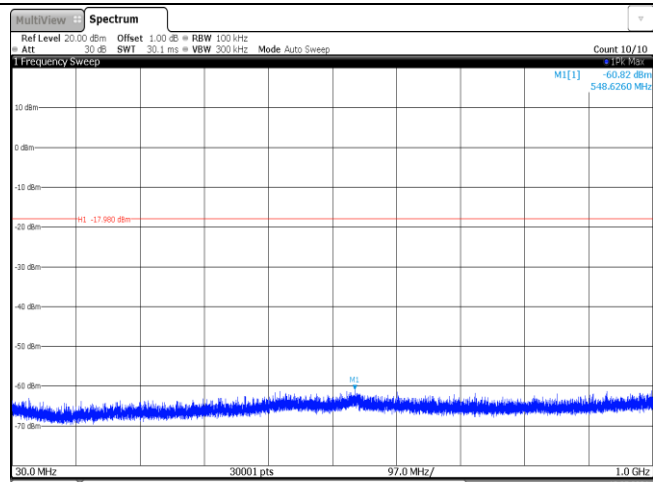
Test Item:	SE	Type:	802.11 b
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<p>CH01 30MHz~1000MHz</p>			 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SWI 30.1 ms VBW 300 kHz Mode Auto Sweep Count 10/10 M1[1] -61.11 dBm 553.5400 MHz H1 -18.940 dBm 30.0 MHz 30001 pts 97.0 MHz/ 1.0 GHz Date:19_01_2021 14:47:04</p>
<p>CH01 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 M1[1] -52.58 dBm 25.656667 GHz H1 -18.940 dBm 1.0 GHz 30001 pts 2.5 GHz/ 26.0 GHz Date:19_01_2021 14:47:21</p>

CH06
Reference level



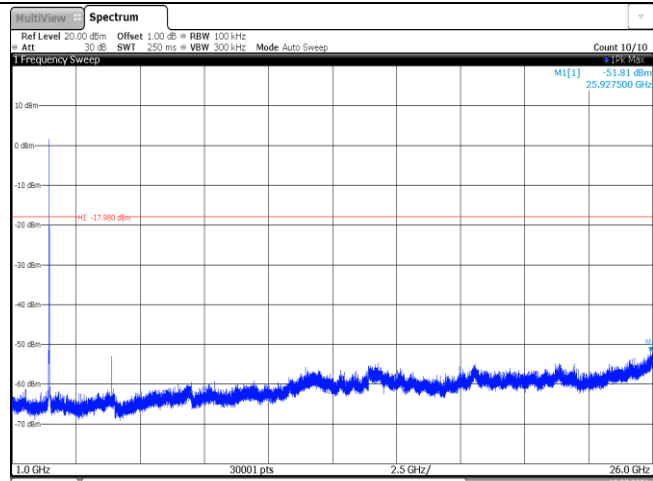
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CH06
30MHz~1000MHz



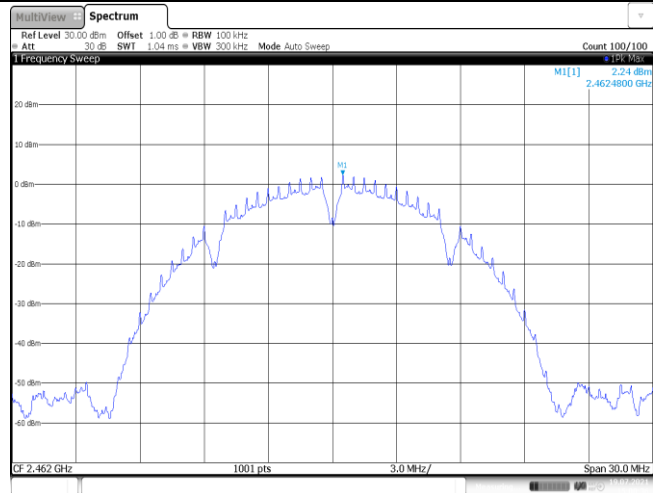
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CH06
1GHz~26GHz



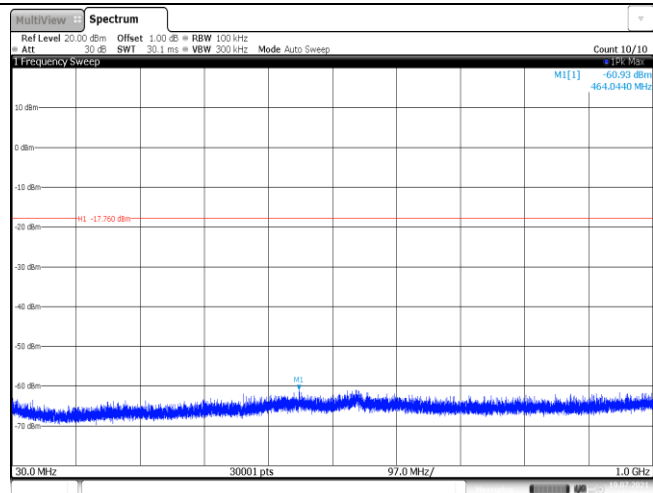
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CH11
Reference level



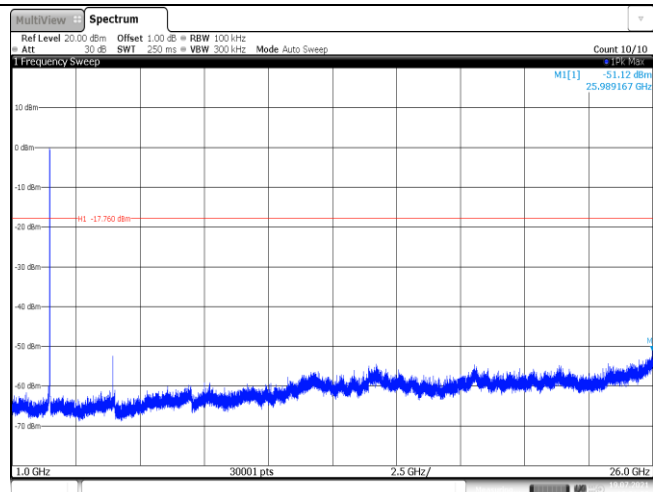
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CH11
30MHz~1000MHz

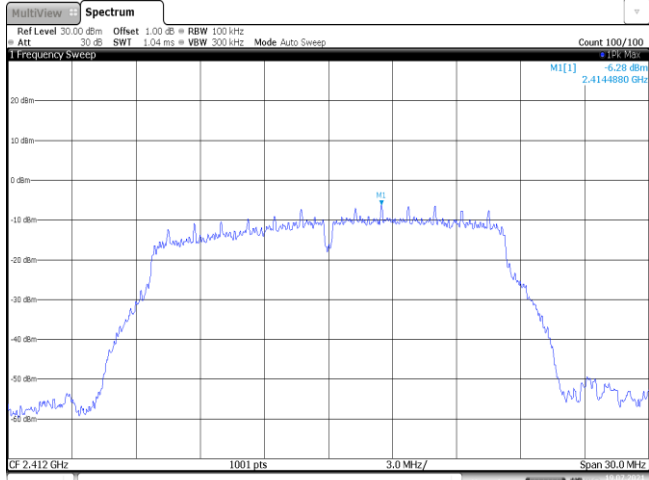
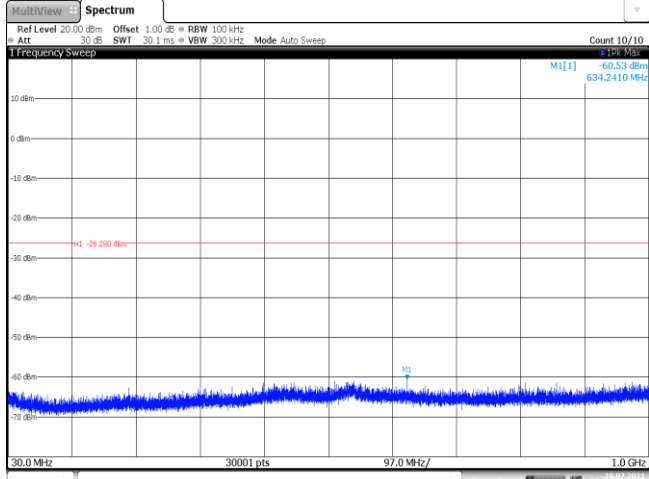
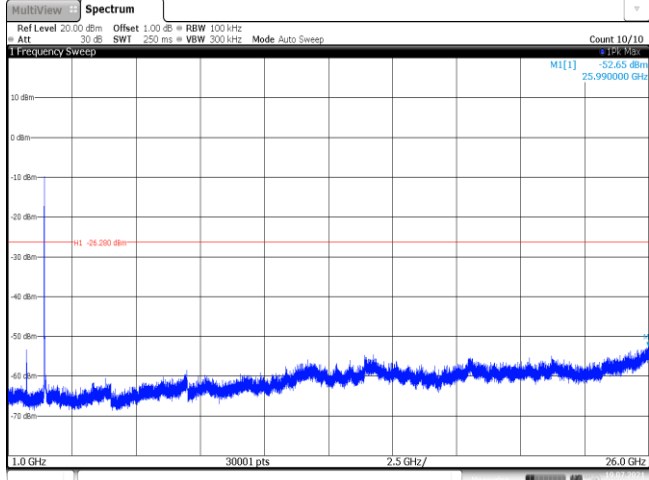


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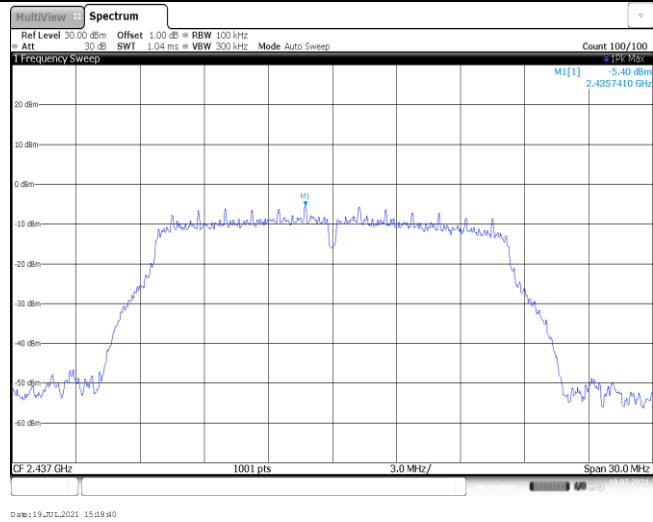
CH11
1GHz~26GHz



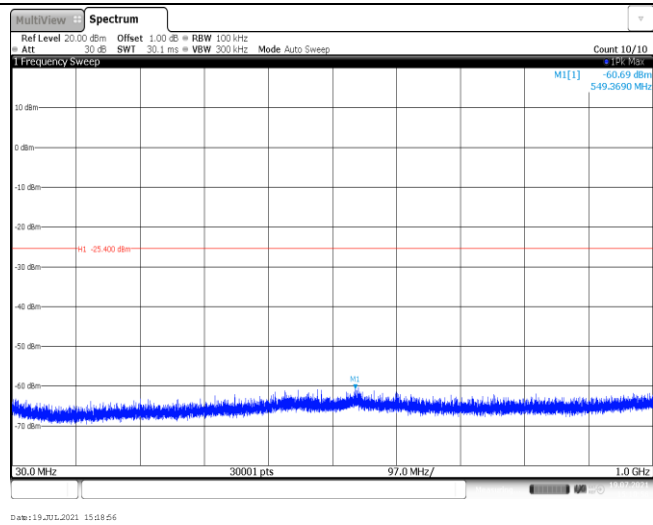
Date:19_JUL_2021 15:01:08

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

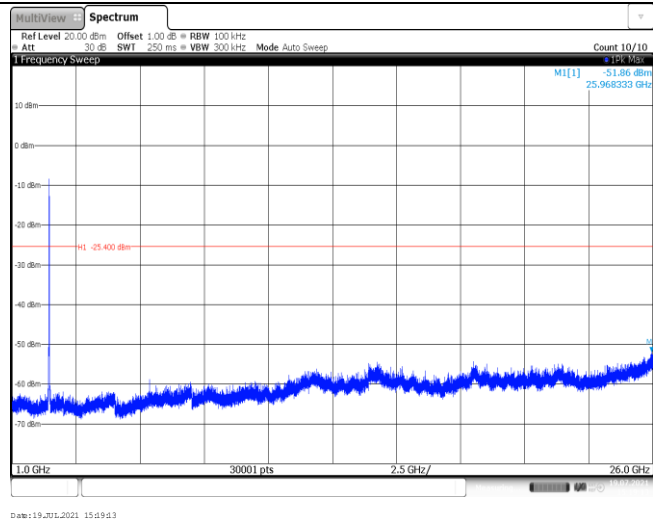
CH06
Reference level



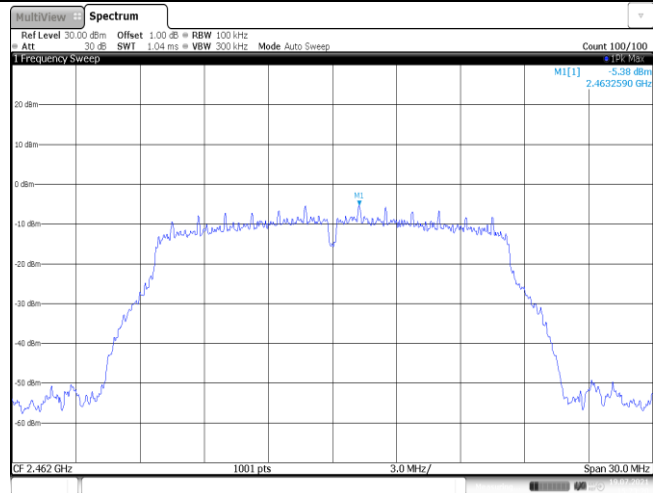
CH06
30MHz~1000MHz



CH06
1GHz~26GHz

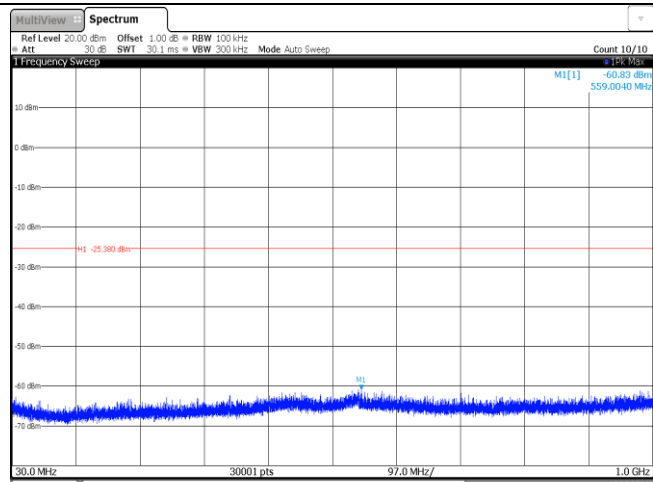


CH11
Reference level



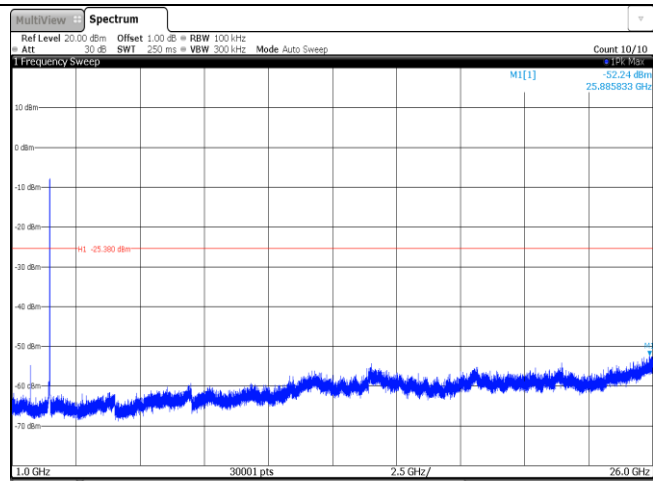
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CH11
30MHz~1000MHz



Date:19_JUL_2021 15:23:07

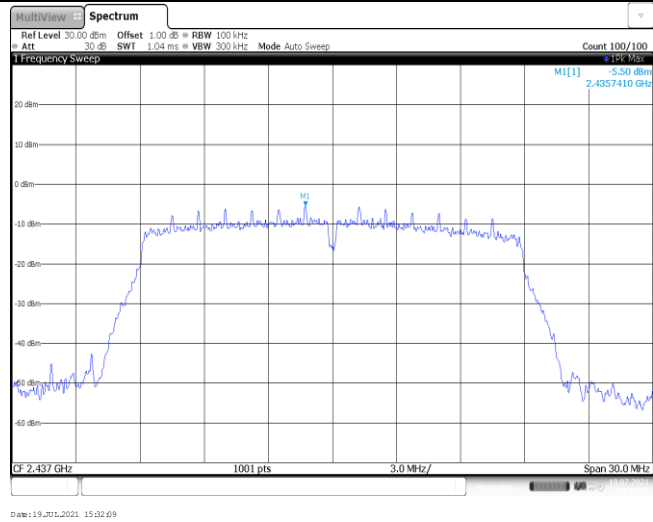
CH11
1GHz~26GHz



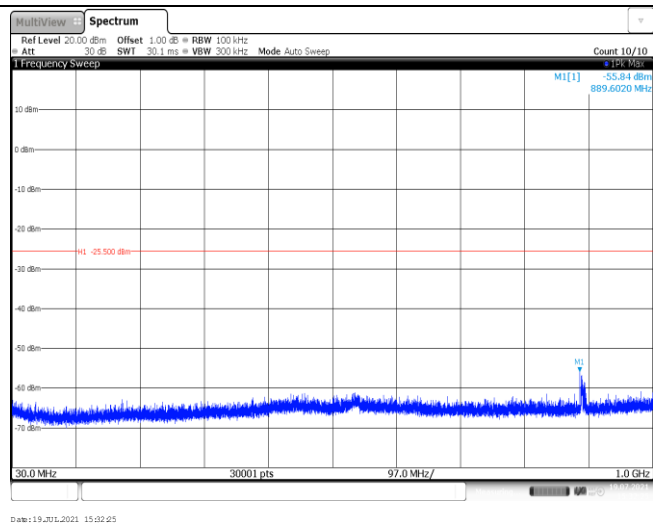
Date:19_JUL_2021 15:23:53

Test Item:	SE	Type:	802.11 n(HT20)
<p>CH01 Reference level</p>			
<p>CH01 30MHz~1000MHz</p>			
<p>CH01 1GHz~26GHz</p>			

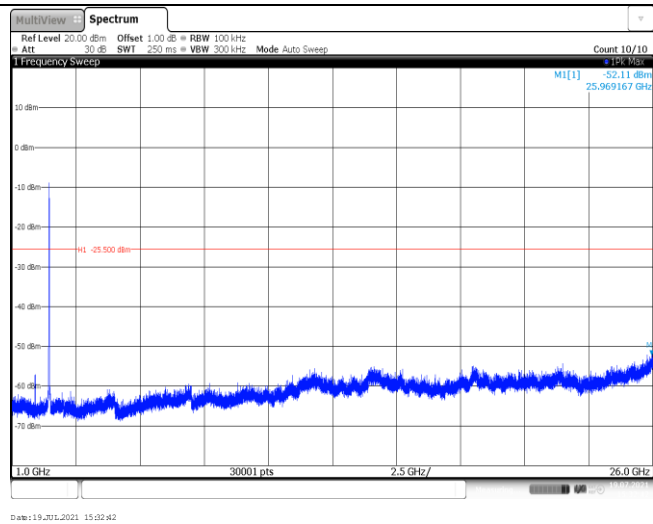
CH06
Reference level



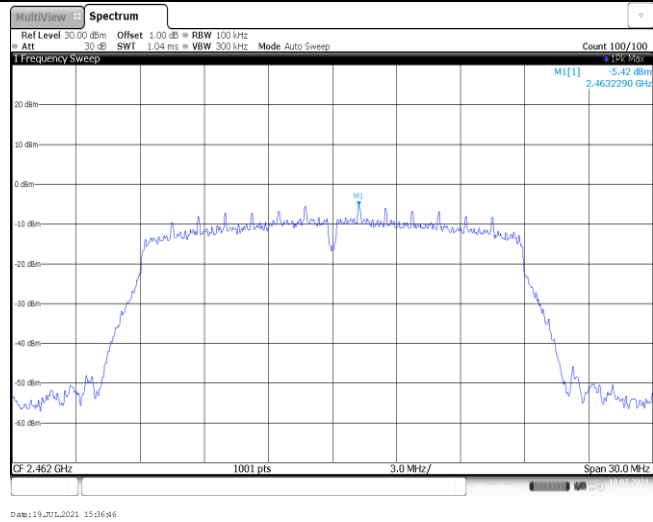
CH06
30MHz~1000MHz



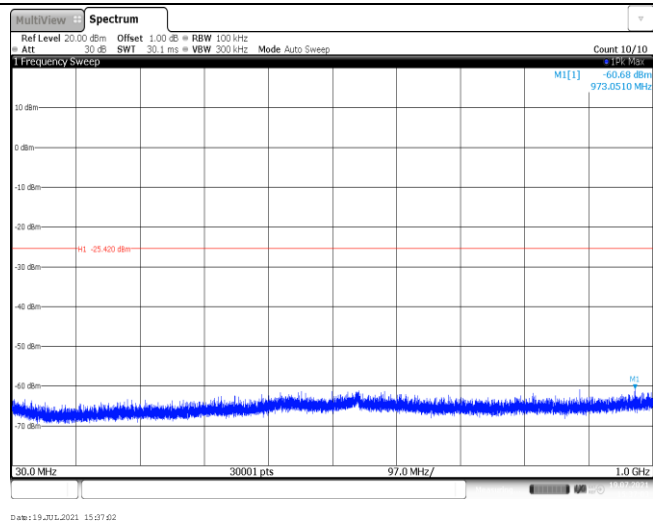
CH06
1GHz~26GHz



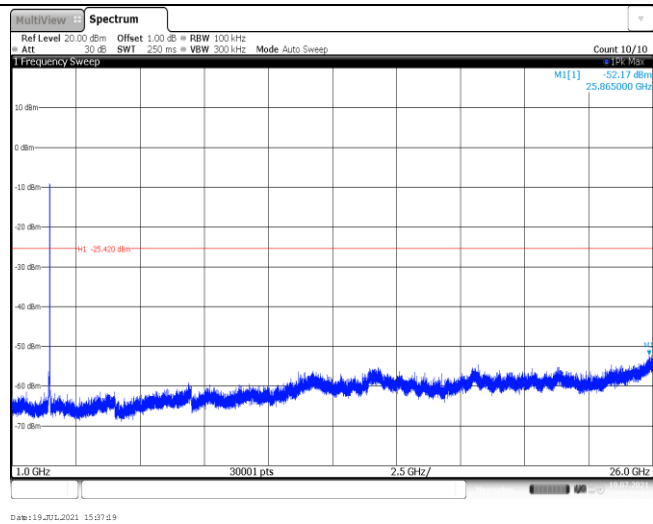
CH11
Reference level



CH11
30MHz~1000MHz



CH11
1GHz~26GHz



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