

APPENDIX REPORT

Project No.	SHT2111020903EW	Radio Specification	WIFI 2.4G
Test sample No.	YPHT21061170008	Model No.	BX6100
Start test date	2021-11-19	Finish date	2021-11-19
Temperature	24.2℃	Humidity	35%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zheo

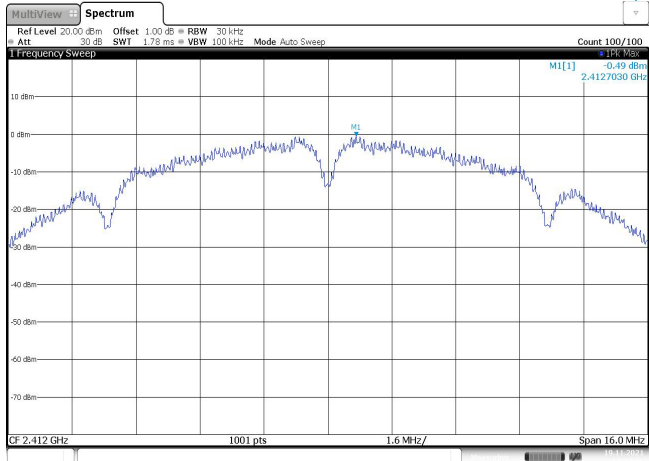
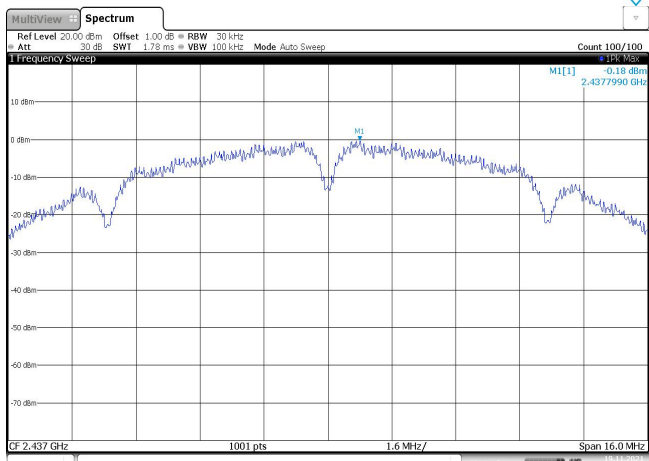
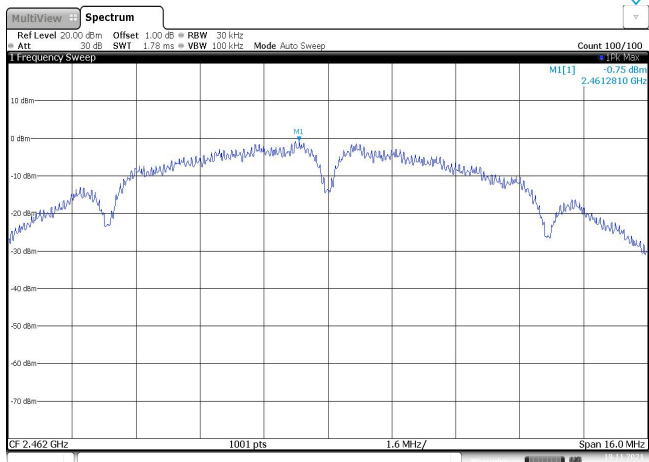
Appendix clause	Test item	Result
A	Conducted Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty Cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

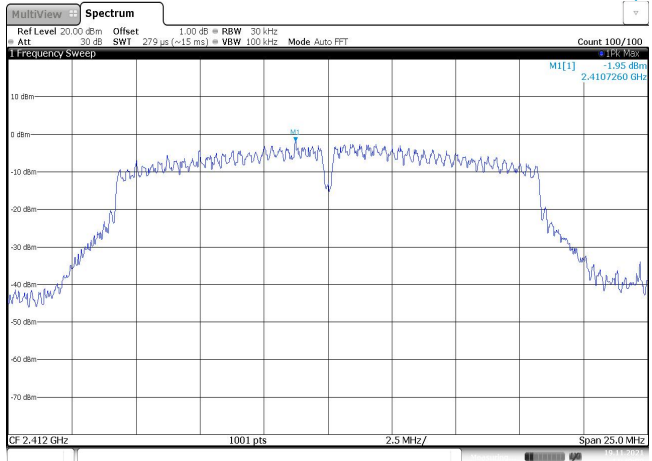
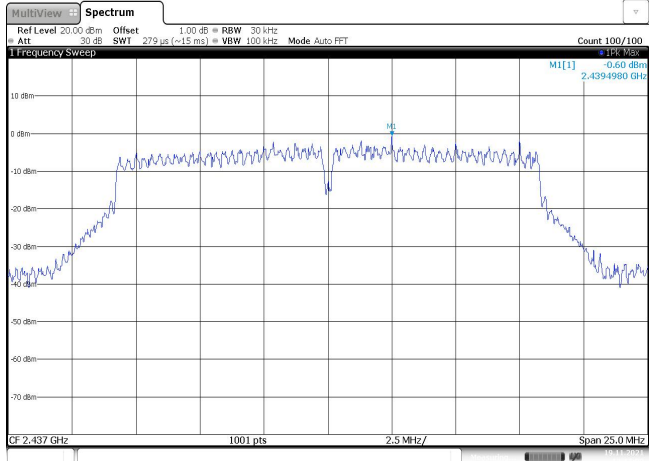
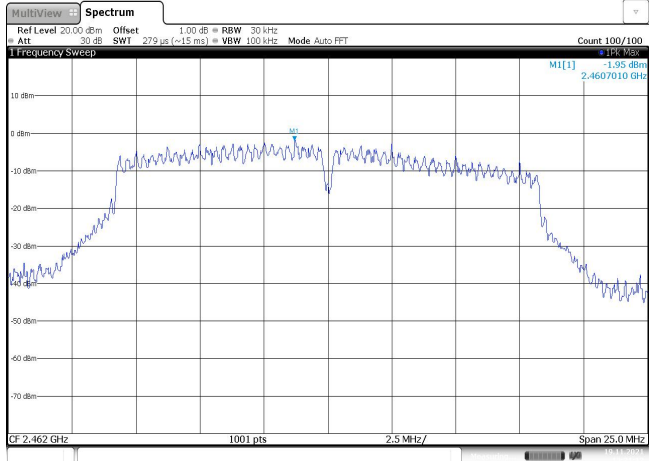
Appendix A: Conducted Peak Output Power

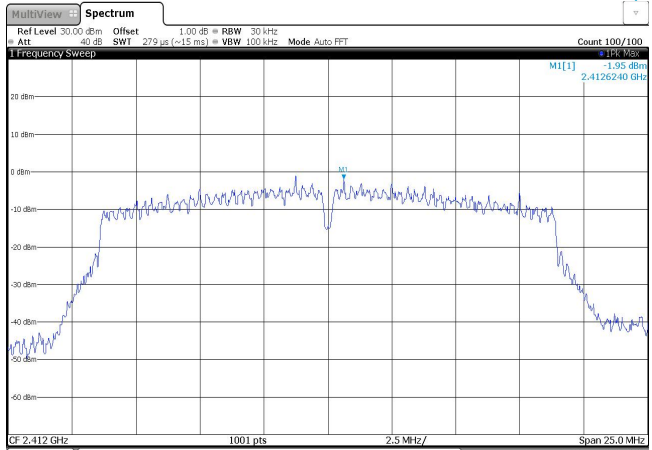
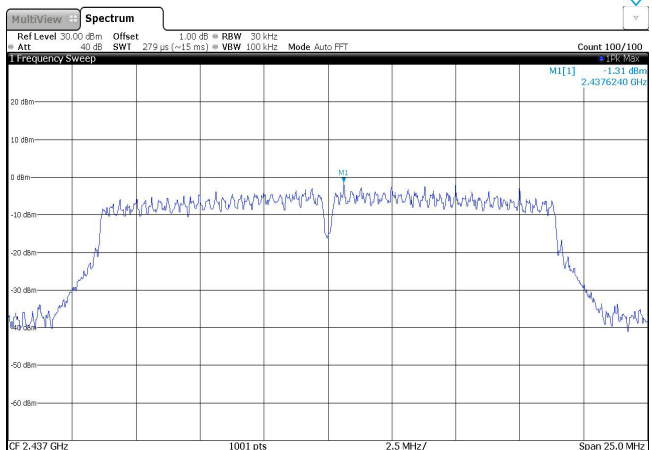
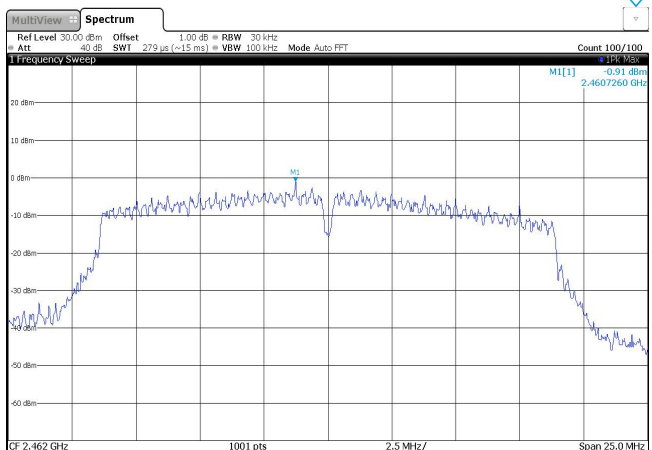
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	16.17	13.80	≤ 30.00	Pass
	06	17.02	14.75		
	11	16.02	13.54		
802.11g	01	21.35	18.86	≤ 30.00	Pass
	06	22.55	19.72		
	11	21.66	18.92		
802.11n (HT20)	01	21.67	18.72	≤ 30.00	Pass
	06	22.44	19.42		
	11	21.59	18.62		
802.11n(HT40)	03	22.94	20.18	≤ 30.00	Pass
	06	23.34	20.56		
	09	22.85	20.16		

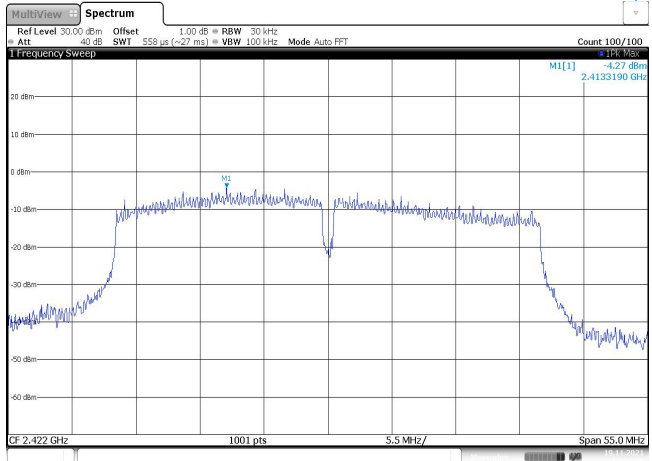
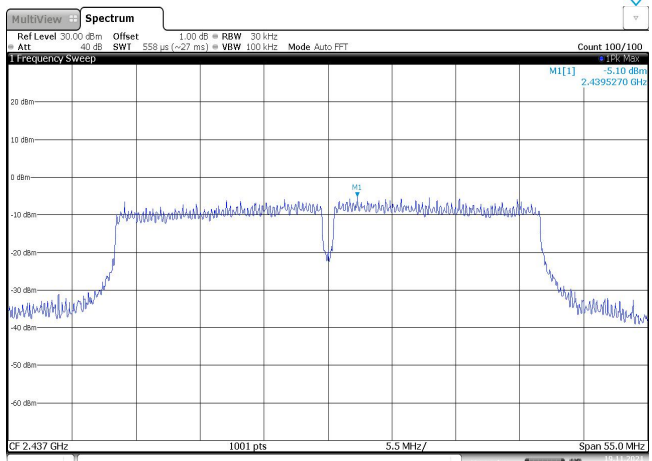
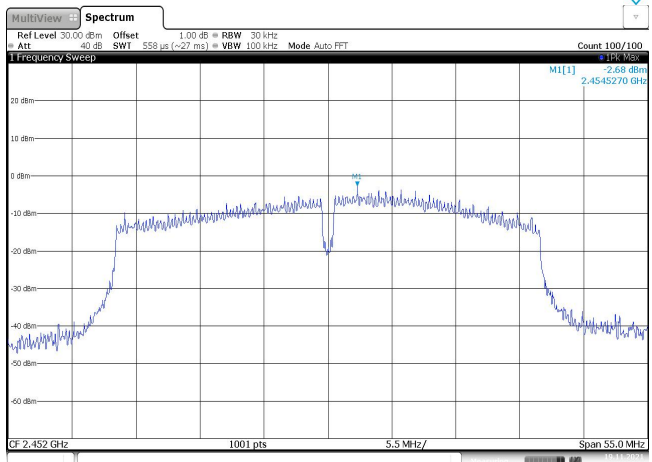
Appendix B: Power Spectral Density

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-0.49	≤8.00	Pass
	06	-0.18		
	11	-0.75		
802.11g	01	-1.95	≤8.00	Pass
	06	-0.60		
	11	-1.95		
802.11n(HT20)	01	-1.95	≤8.00	Pass
	06	-1.31		
	11	-0.91		
802.11n(HT40)	03	-4.27	≤8.00	Pass
	06	-5.10		
	09	-2.68		

Type:	802.11 b
CH01	 19 NOV 2021 11:33:46
CH06	 19 NOV 2021 11:35:59
CH11	 19 NOV 2021 11:37:46

Type:	802.11 g
CH01	 19 NOV 2021 11:40:08
CH06	 19 NOV 2021 13:17:09
CH11	 19 NOV 2021 13:21:11

Type:	802.11n(HT20)
CH01	 19 NOV 2021 13:29:45
CH06	 19 NOV 2021 13:32:36
CH11	 19 NOV 2021 13:34:36

Type:	802.11n(HT40)
CH03	 Date: 19 NOV 2021 13:36:55
CH06	 Date: 19 NOV 2021 13:42:53
CH09	 Date: 19 NOV 2021 13:47:51

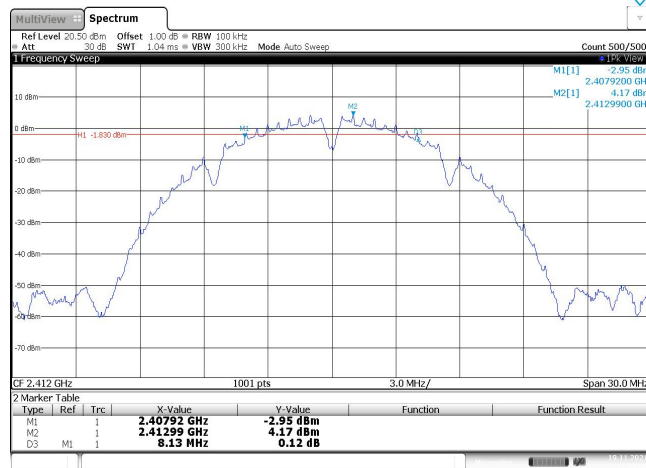
Appendix C: 6dB bandwidth

Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	01	8.13	≥0.5	Pass
	06	8.16		
	11	7.62		
802.11g	01	15.15	≥0.5	Pass
	06	15.51		
	11	13.89		
802.11n(HT20)	01	13.95	≥0.5	Pass
	06	16.02		
	11	13.89		
802.11n(HT40)	03	32.70	≥0.5	Pass
	06	35.82		
	09	26.40		

Type:

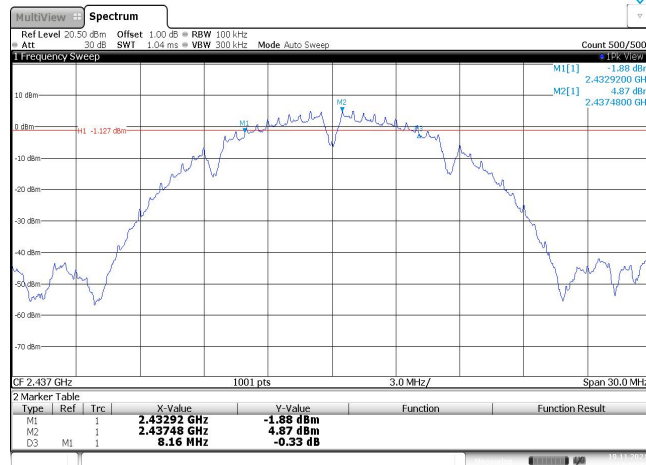
802.11 b

CH01



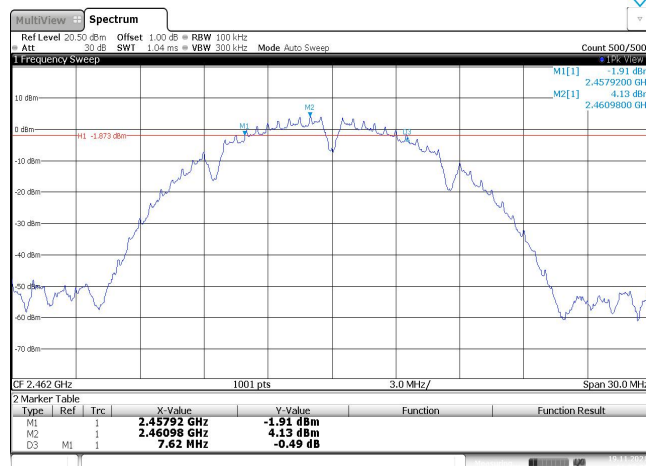
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CH06



Date: 19 NOV 2021 11:35:38

CH11

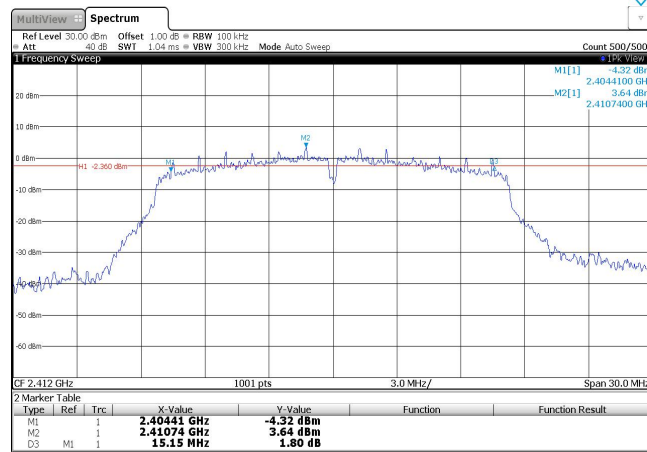


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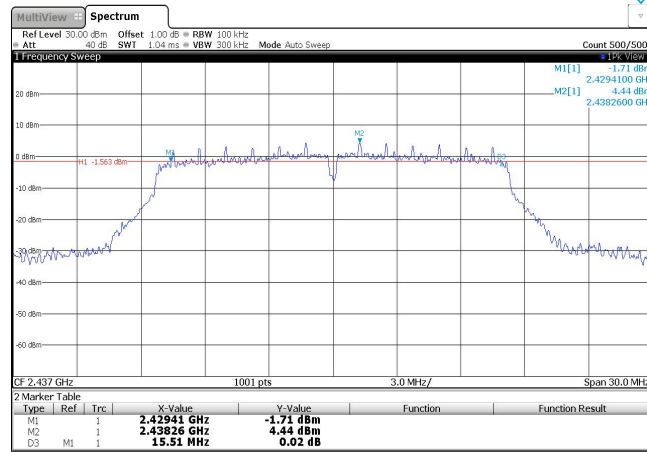
802.11 g

CH01



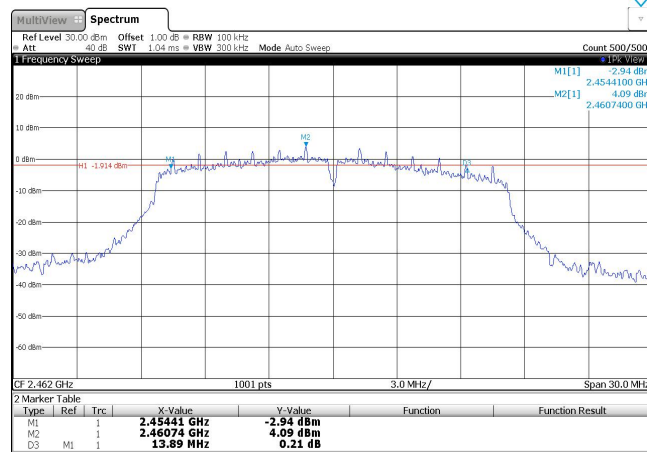
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CH06



Date: 19 NOV 2021 13:16:48

CH11

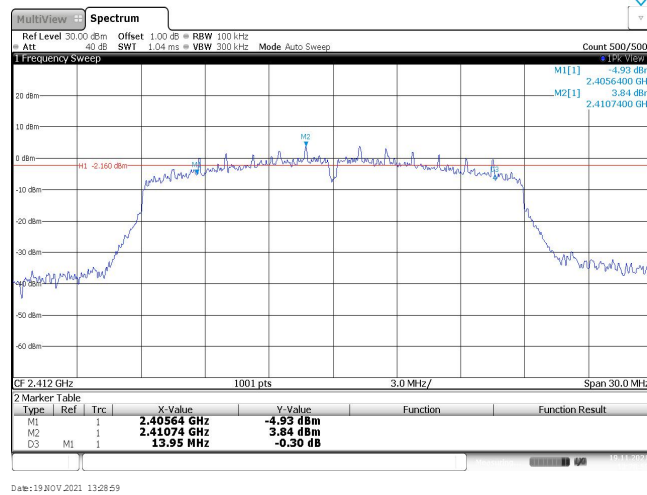


Date: 19 NOV 2021 13:20:20

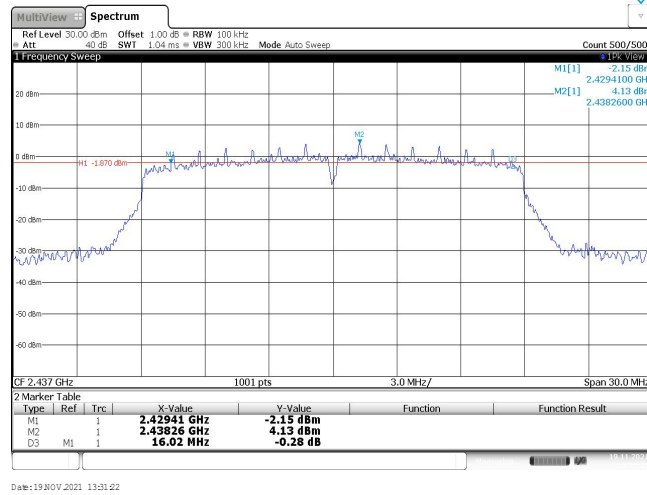
Type:

802.11n(HT20)

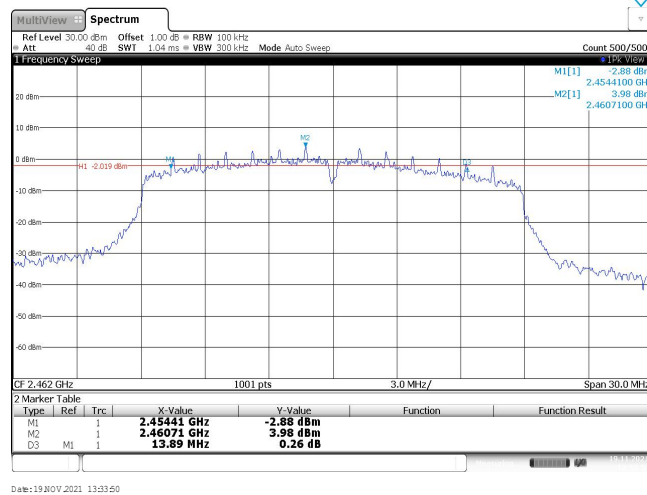
CH01



CH06



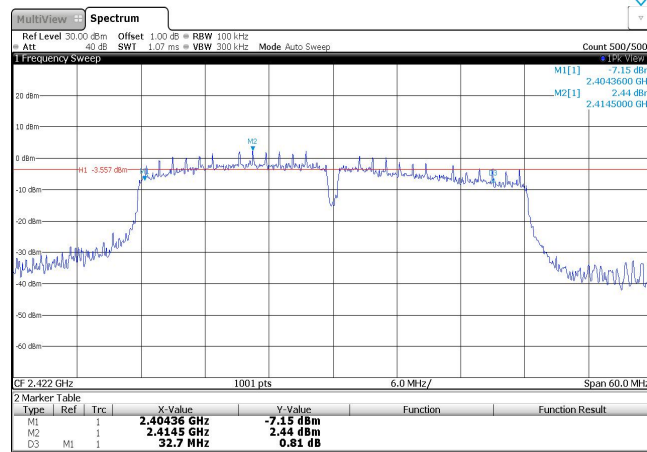
CH11



Type:

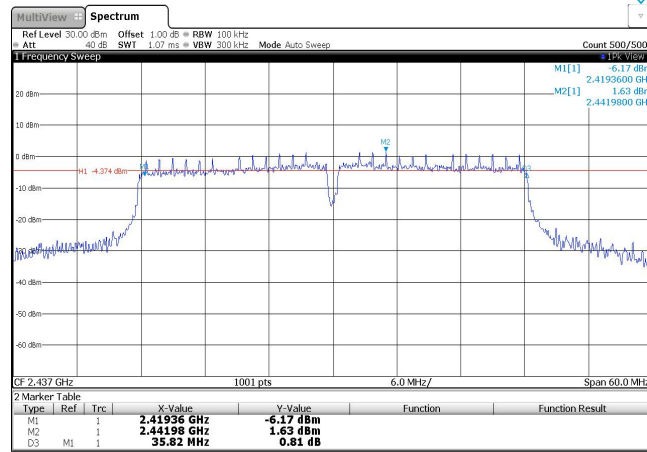
802.11n(HT40)

CH03



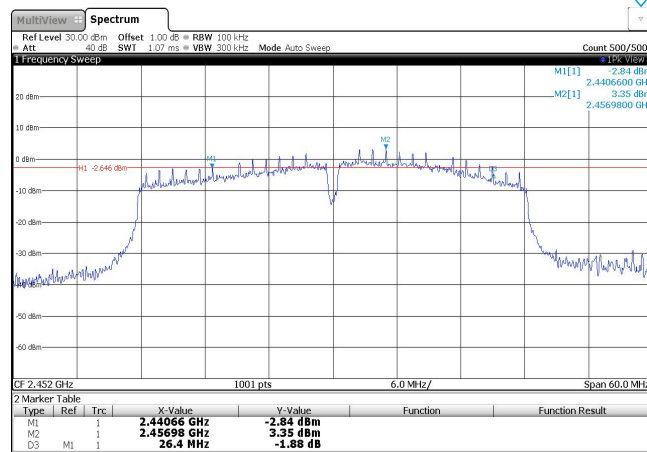
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CH06



Date: 19 NOV 2021 13:41:52

CH09



Date: 19 NOV 2021 13:46:47

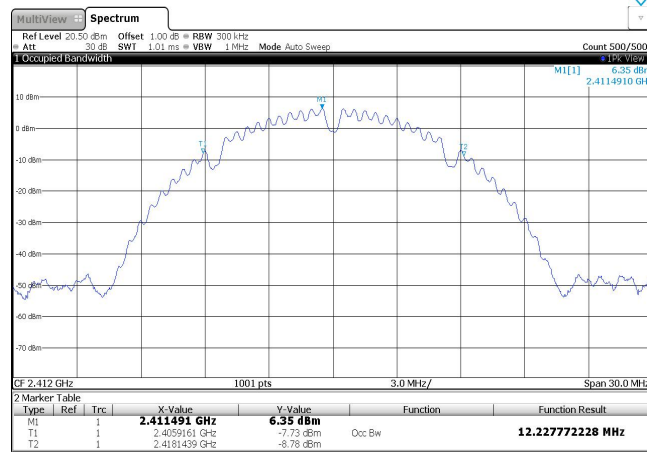
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	12.23	-	Pass
	06	13.07		
	11	12.47		
802.11g	01	16.48	-	Pass
	06	17.05		
	11	16.57		
802.11n(HT20)	01	17.44	-	Pass
	06	17.80		
	11	17.47		
802.11n(HT40)	03	36.02	-	Pass
	06	36.80		
	09	35.54		

Type:

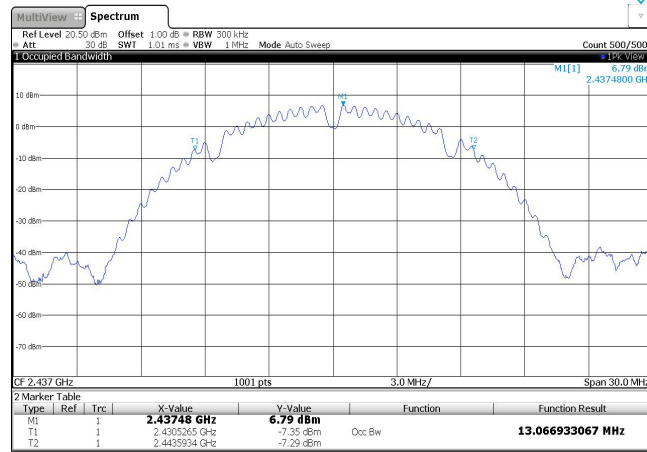
802.11 b

CH01



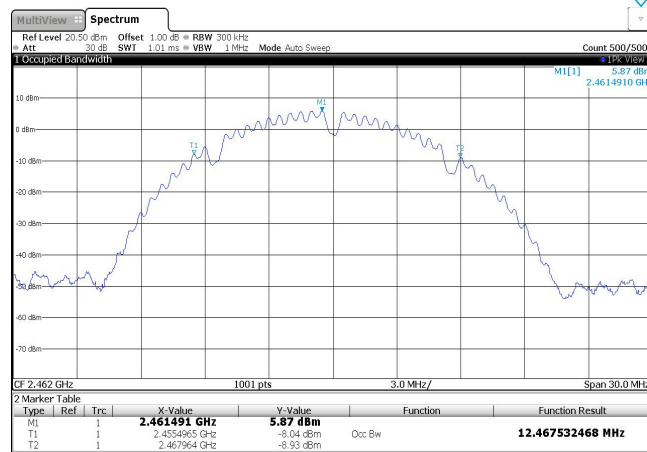
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CH06



Date: 19 NOV 2021 11:35:46

CH11

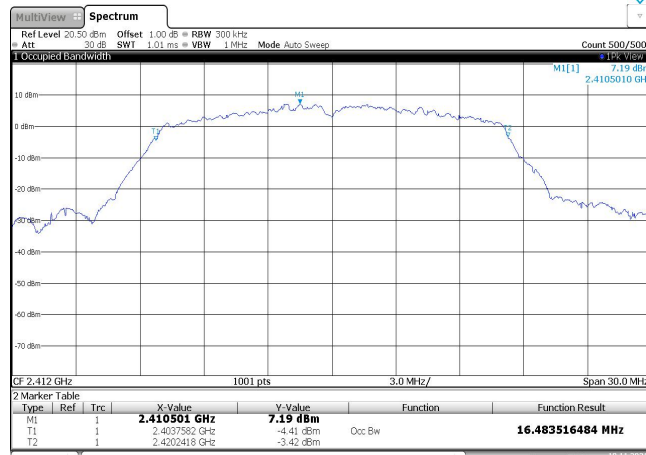


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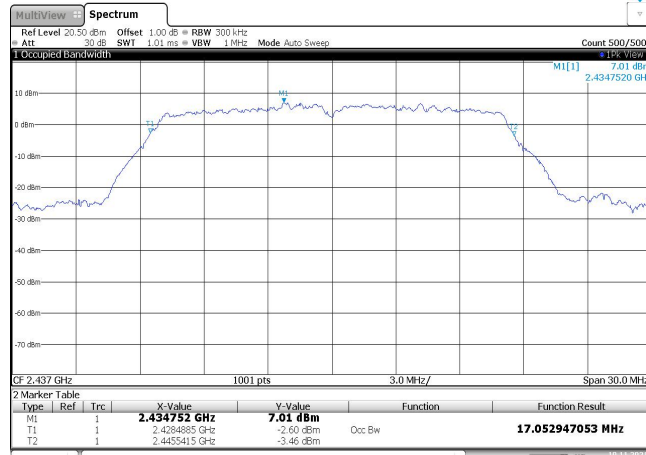
802.11 g

CH01



Date: 19 NOV 2021 11:39:32

CH06



Date: 19 NOV 2021 13:16:56

CH11

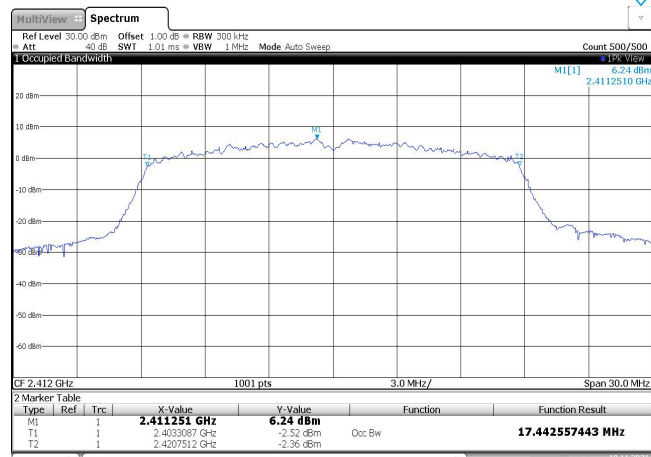


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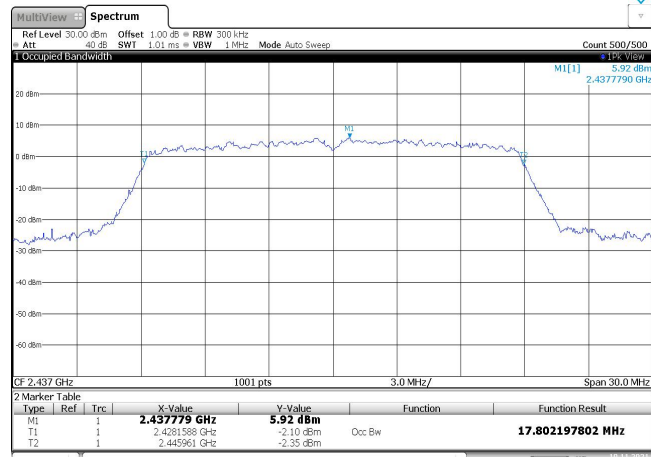
802.11n(HT20)

CH01



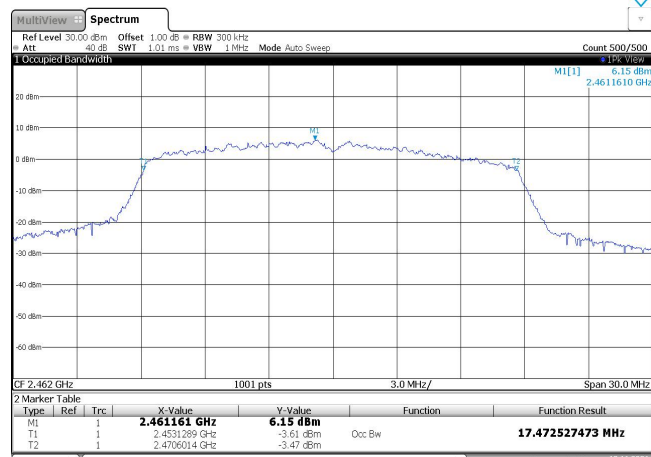
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CH06



Date: 19 NOV 2021 13:31:30

CH11

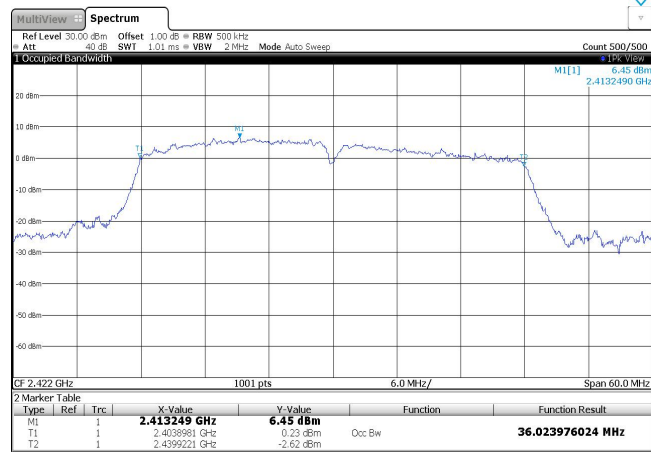


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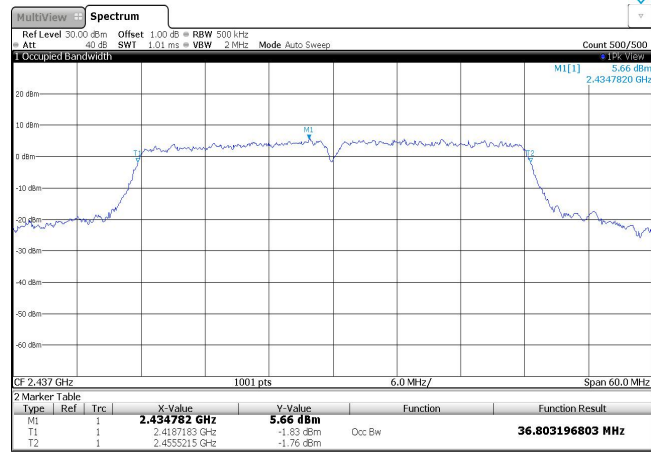
802.11n(HT40)

CH03



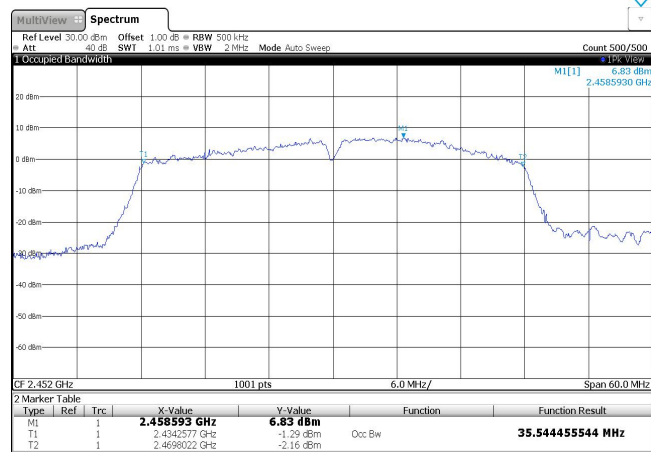
Date: 19 NOV 2021 13:36:13

CH06



Date: 19 NOV 2021 13:42:00

CH09

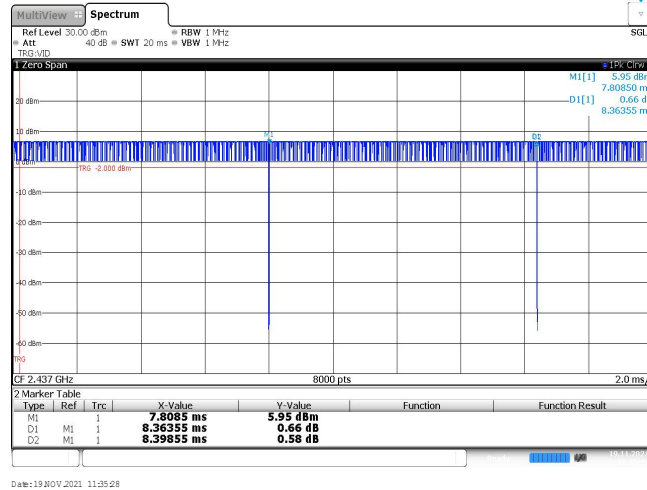


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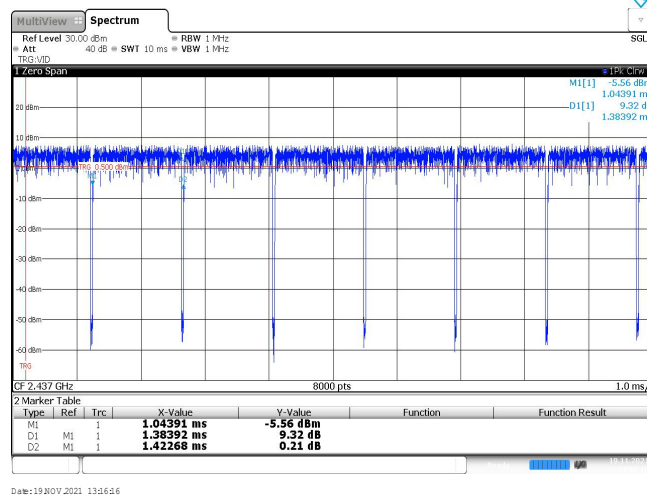
Appendix E: Duty Cycle

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	8.40	99.6%	0.1
11g	2437	1.38	1.42	97.3%	0.8
11n20	2437	1.29	1.33	97.2%	0.8
11n40	2437	0.60	0.69	87.4%	1.7

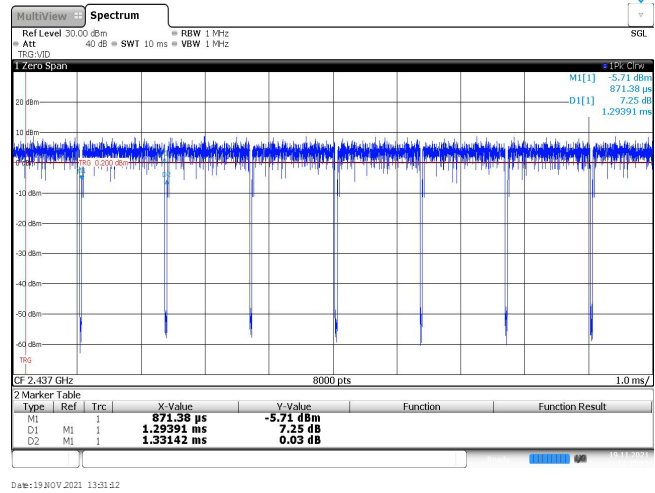
11b



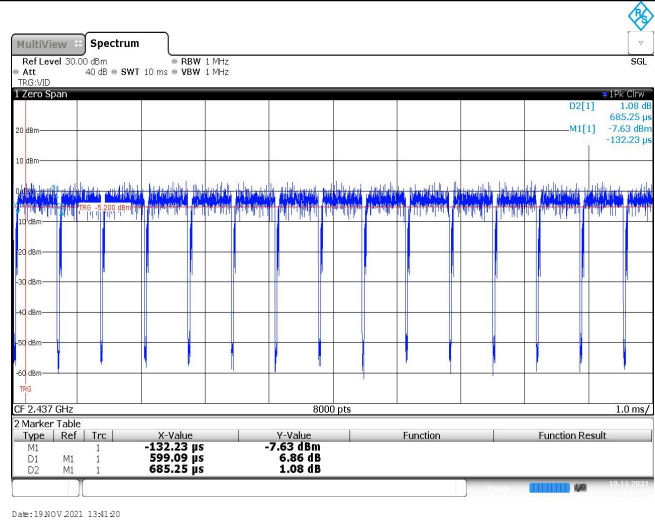
11g



11n20



11n40



Appendix F: Band edge and Spurious Emissions (conducted)

Test Item:	Bandedge	Type:	802.11 b
CH01			