APPENDIX REPORT

Project No.	SHT1911060702EW	Radio Specification	WIFI 5G
Test sample No.	YPHT19110607028	Model No.	TE300
Start test date	2020/1/2	Finish date	2020/1/2
Temperature	25°C	Humidity	50%
Test Engineer	Ximing.Huang	Auditor	William . wang

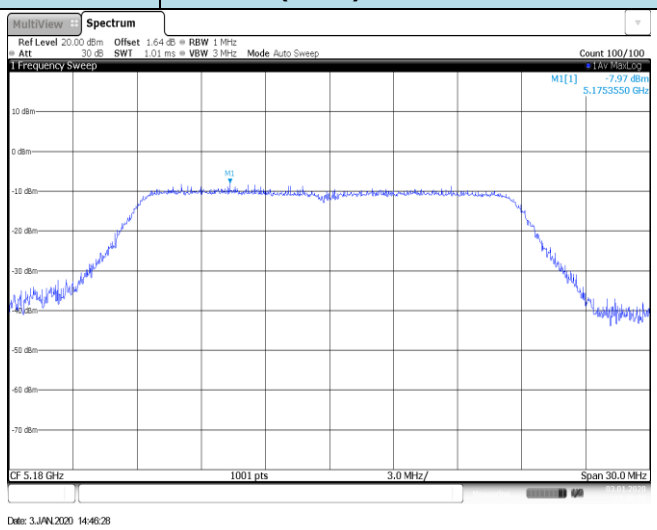
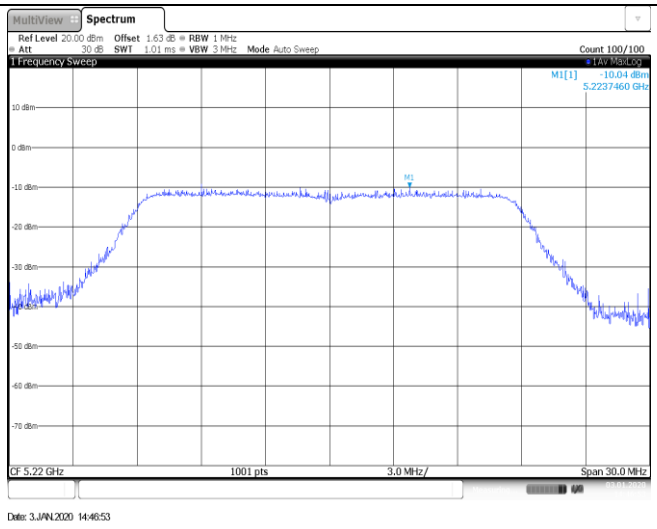
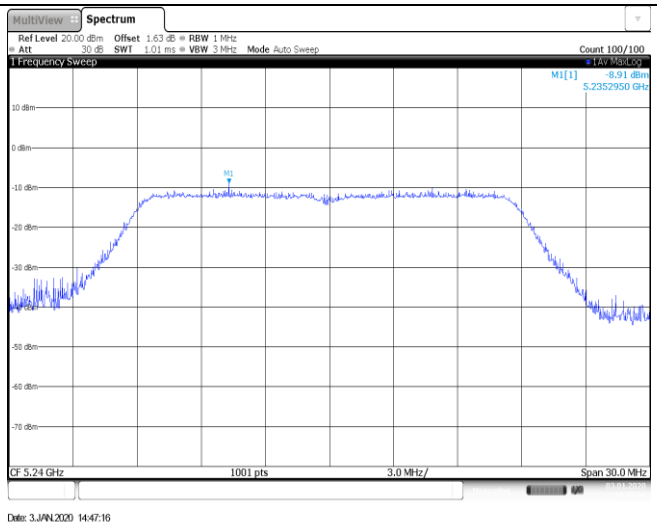
Appendix clause	Test item	Result
A	Maximum Conducted Output Power	PASS
B	Maximum Power Spectral Density	PASS
C	26 dB Bandwidth	PASS
D	99% Occupy bandwidth	PASS
E	Frequency stability	PASS

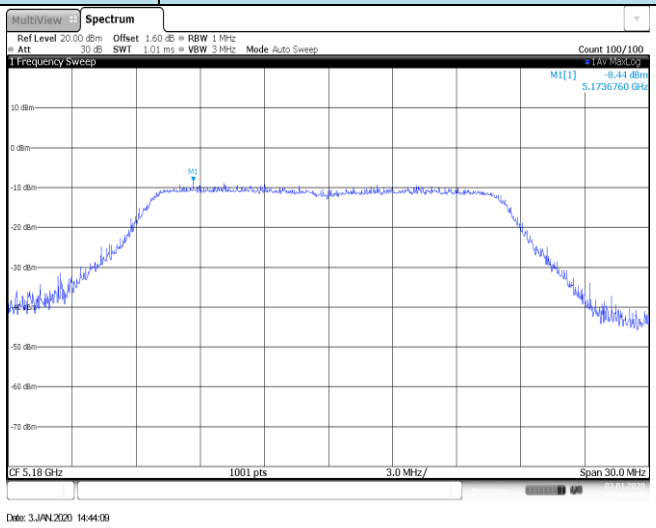
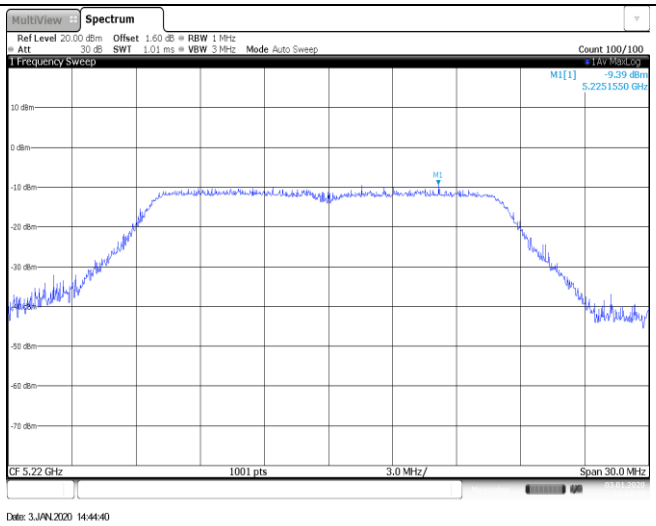
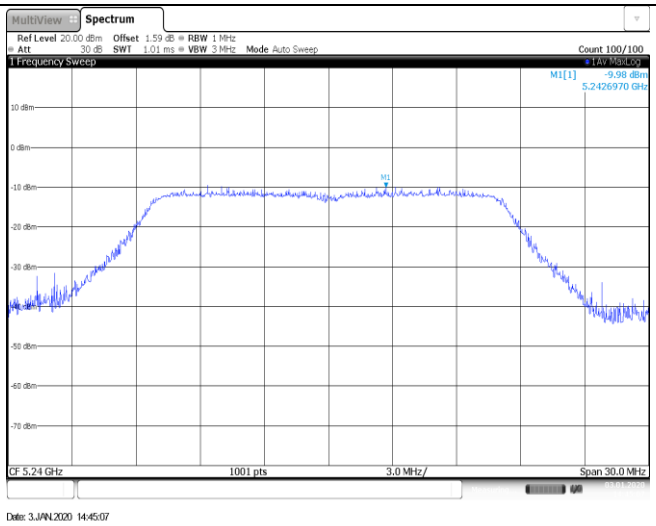
Appendix A: Maximum Conducted Output Power

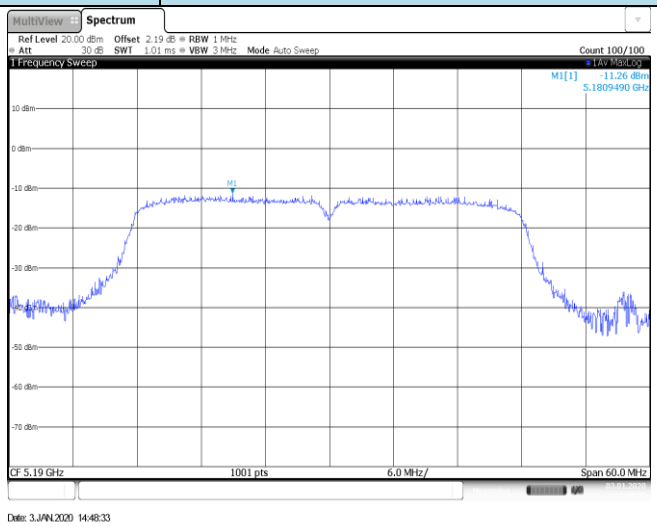
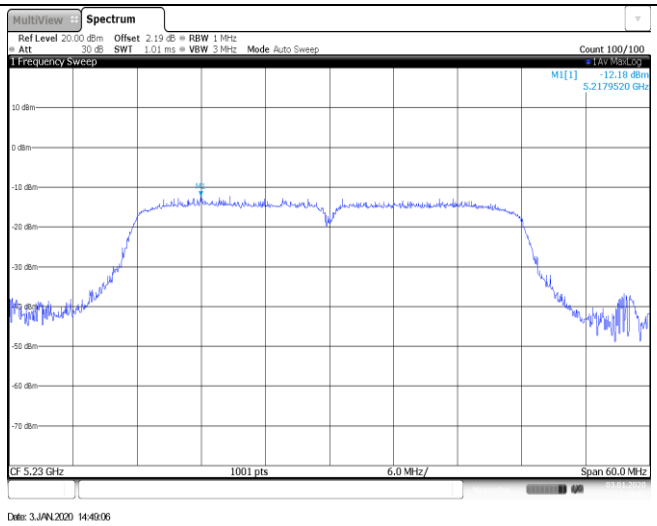
Band	Bandwidth (MHz)	Type	Channel	Conducted Output Power (dBm)	Limit (dBm)	Result
I	20	802.11n	CH_L	11.29	24.00	Pass
			CH_M	9.86		
			CH_H	9.77		
		802.11a	CH_L	11.22	24.00	Pass
			CH_M	9.86		
			CH_H	9.76		
	40	802.11n	CH_L	11.40	24.00	Pass
			CH_H	10.21		
II	20	802.11n	CH_L	9.55	24.00	Pass
			CH_M	9.03		
			CH_H	7.06		
		802.11a	CH_L	9.53	24.00	Pass
			CH_M	8.96		
			CH_H	6.97		
	40	802.11n	CH_L	9.81	24.00	Pass
			CH_H	8.15		
Band	Bandwidth (MHz)	Type	Channel	Conducted Output Power (dBm)	Limit (dBm)	Result
III	20	802.11n	CH_L	5.26	24.00	Pass
			CH_M	5.67		
			CH_H	7.99		
		802.11a	CH_L	5.17	24.00	Pass
			CH_M	5.67		
			CH_H	7.94		
	40	802.11n	CH_L	5.91	24.00	Pass
			CH_M	6.21		
			CH_H	7.79		

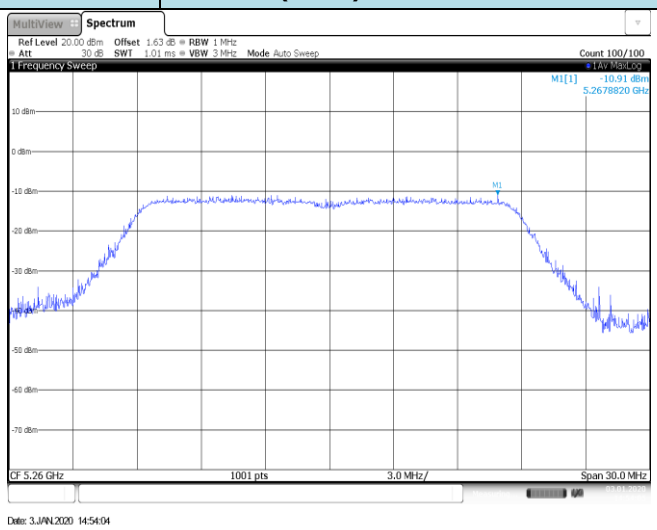
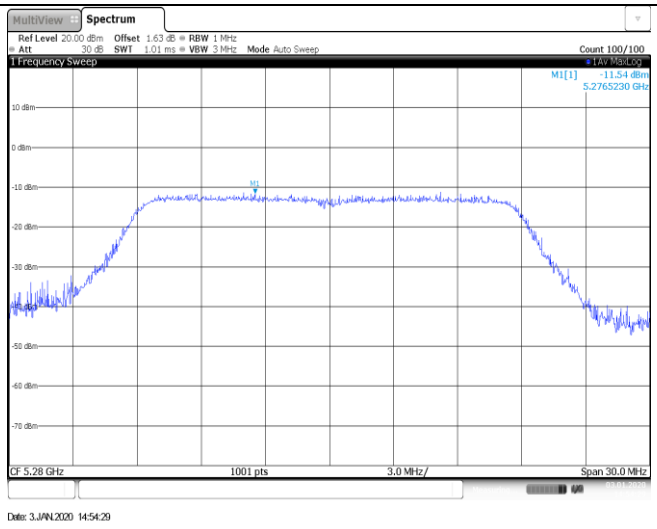
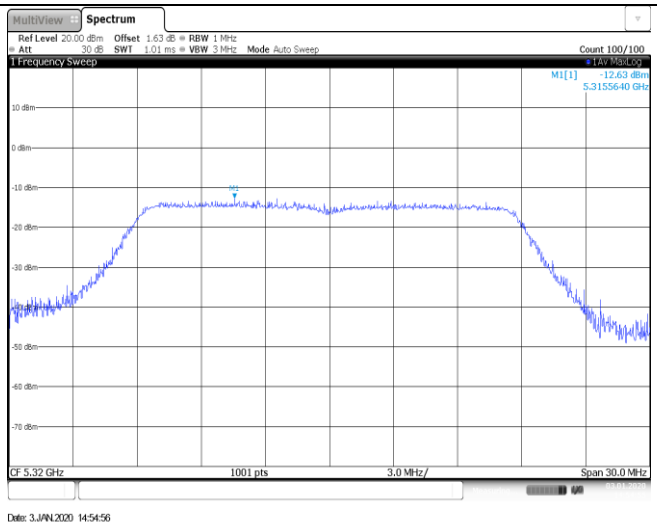
Appendix B：Maximum Power Spectral Density

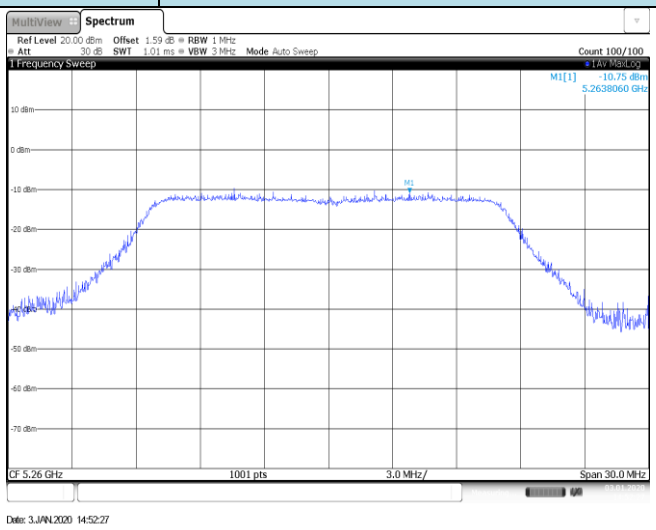
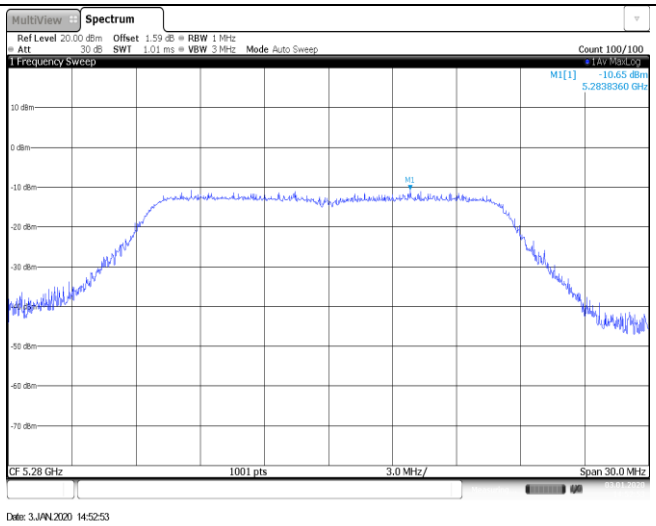
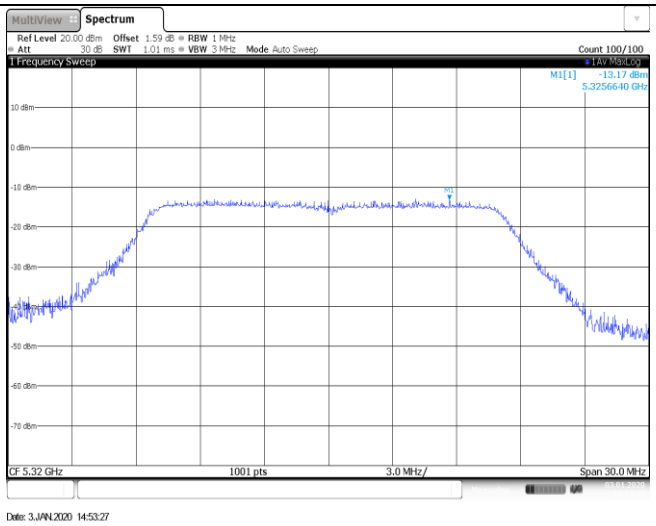
Band	Bandwidth (MHz)	Type	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
I	20	802.11n	CH_L	-7.97	11.00	Pass
			CH_M	-10.04		
			CH_H	-8.91		
		802.11a	CH_L	-8.44	11.00	Pass
			CH_M	-9.39		
			CH_H	-9.98		
	40	802.11n	CH_L	-11.26	11.00	Pass
			CH_H	-12.18		
II	20	802.11n	CH_L	-10.91	11.00	Pass
			CH_M	-11.54		
			CH_H	-12.63		
		802.11a	CH_L	-10.75	11.00	Pass
			CH_M	-10.65		
			CH_H	-13.17		
	40	802.11n	CH_L	-12.81	11.00	Pass
			CH_H	-14.30		
Band	Bandwidth (MHz)	Type	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
III	20	802.11n	CH_L	-14.26	11.00	Pass
			CH_M	-12.85		
			CH_H	-9.73		
		802.11a	CH_L	-14.09	11.00	Pass
			CH_M	-12.22		
			CH_H	-9.61		
	40	802.11n	CH_L	-16.07	11.00	Pass
			CH_M	-15.40		
			CH_H	-13.34		

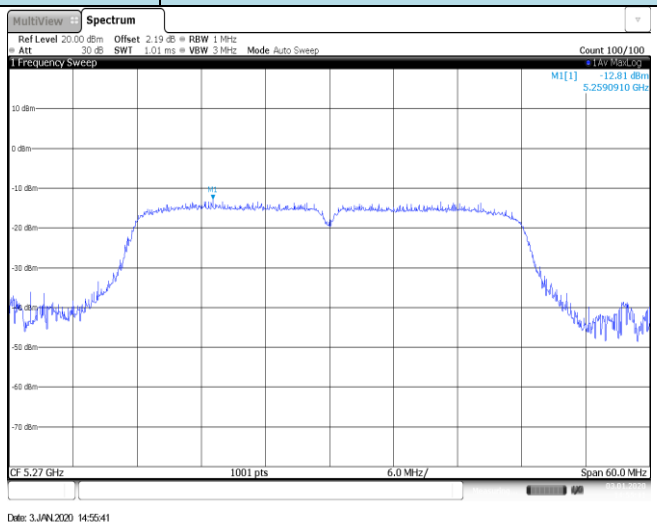
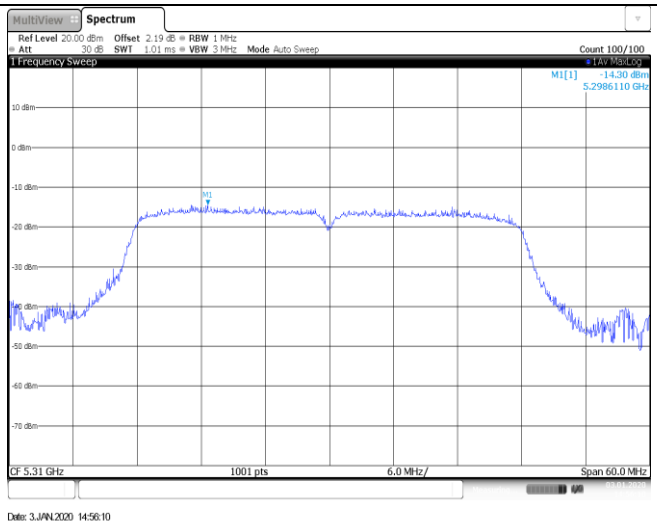
Band I	802.11n (HT20)
CH_L	
CH_M	
CH_H	

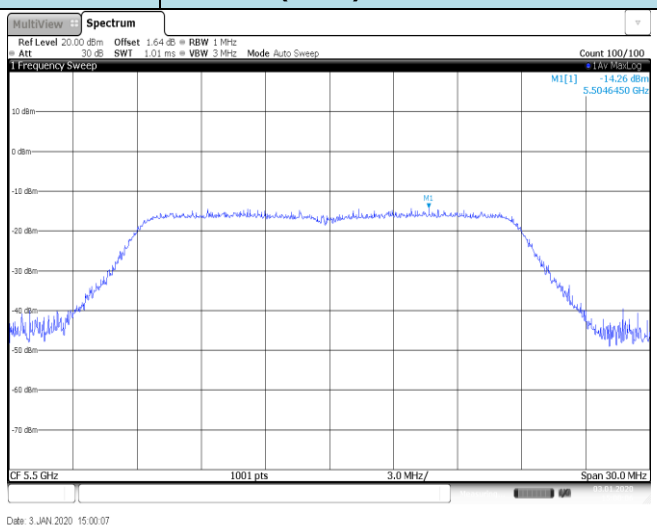
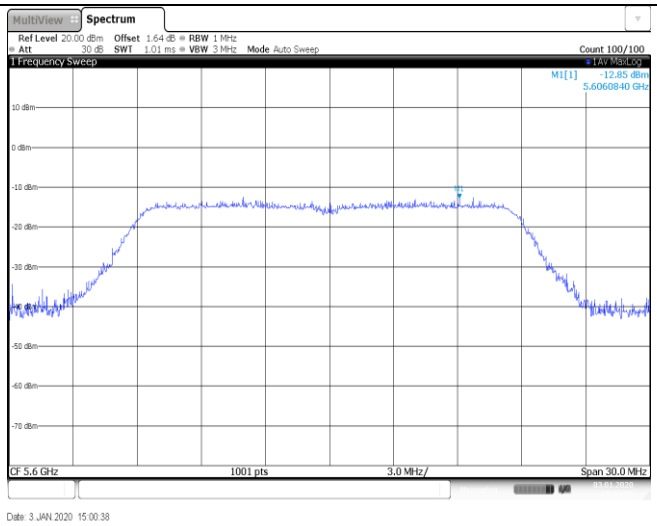
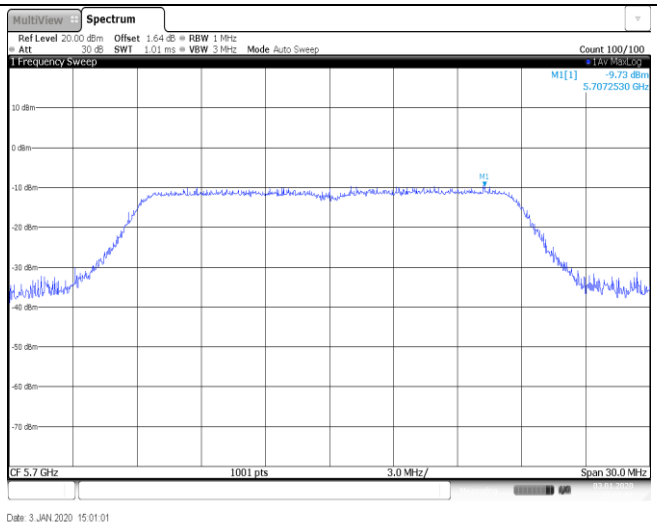
Band I	802.11a
CH_L	
CH_M	
CH_H	

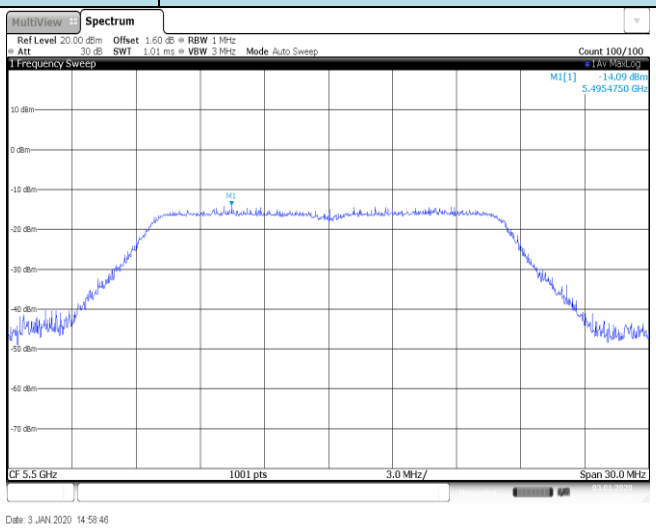
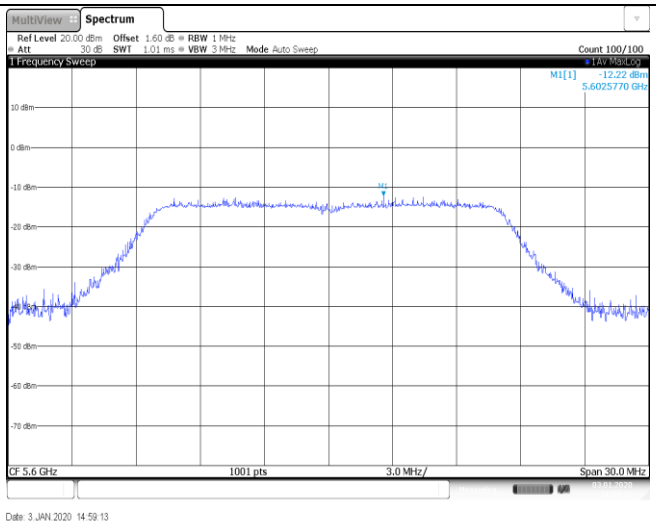
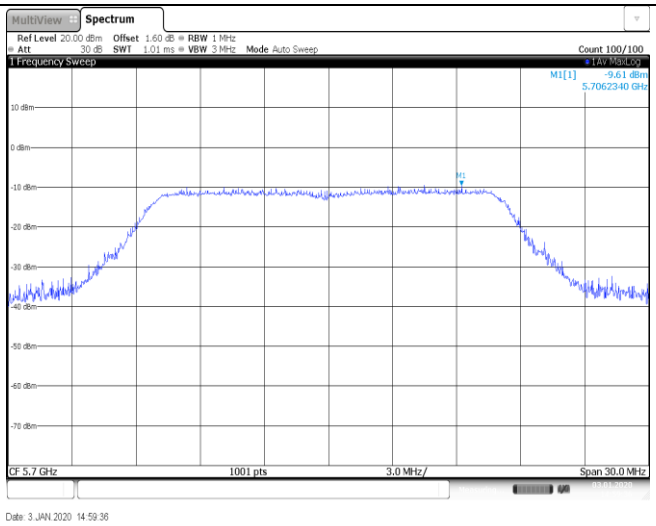
Band I	802.11n (HT40)
CH_L	
CH_H	

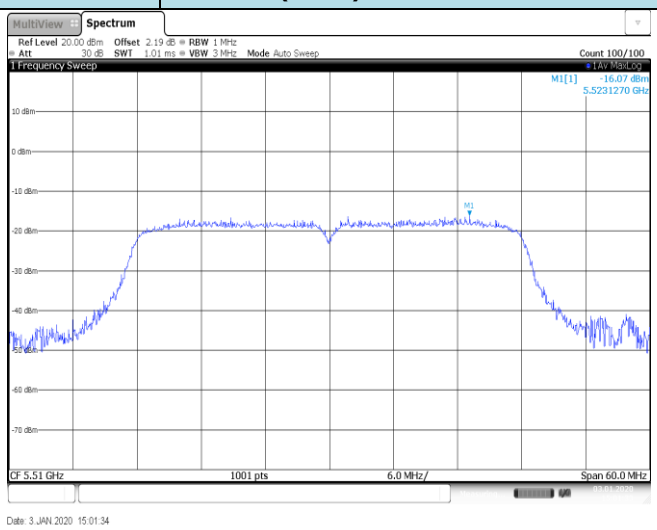
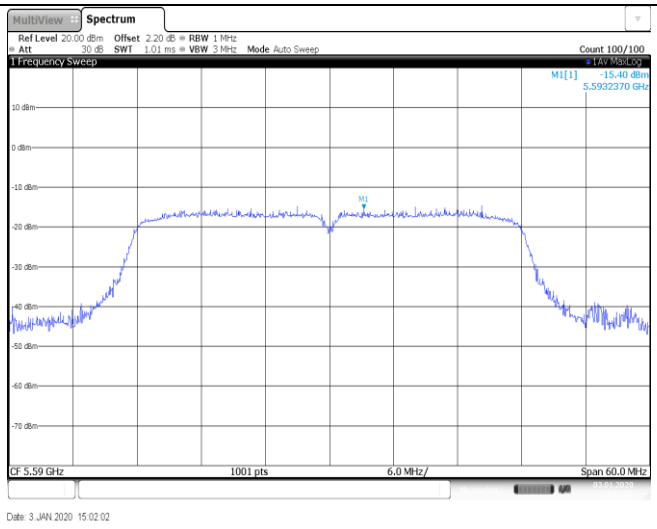
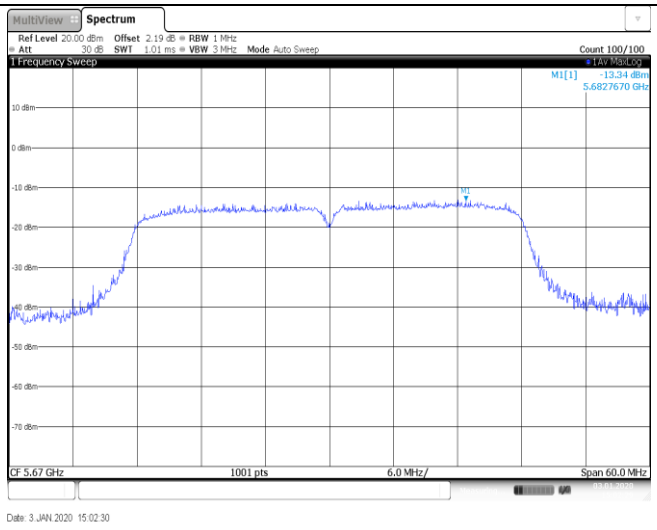
Band II	802.11n (HT20)
CH_L	
CH_M	
CH_H	

Band II	802.11a
CH_L	
CH_M	
CH_H	

Band II	802.11n (HT40)
CH_L	
CH_H	

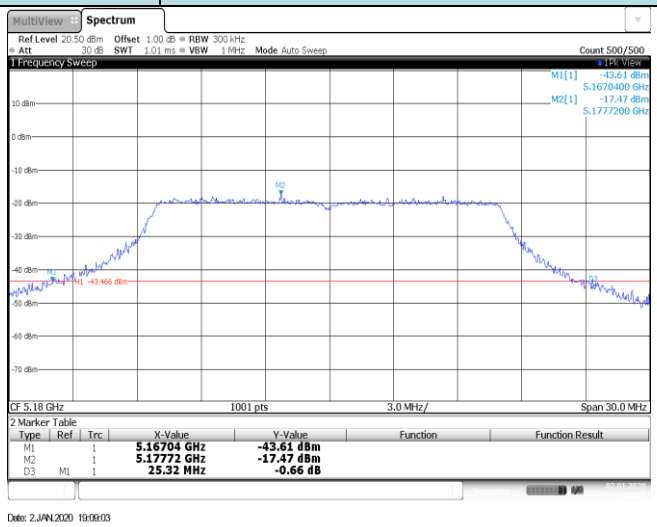
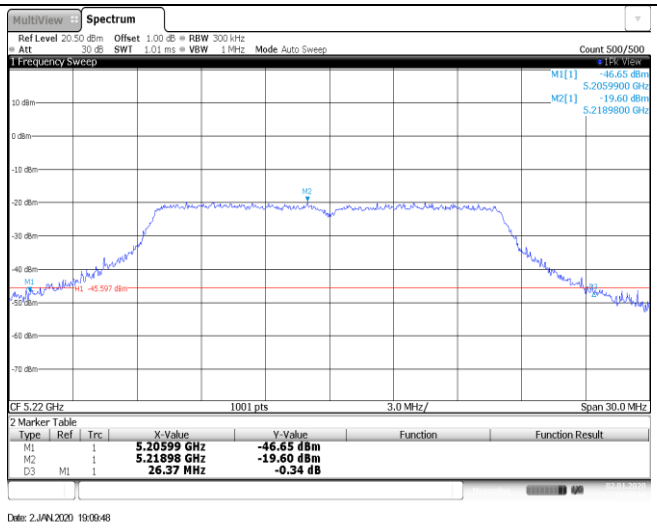
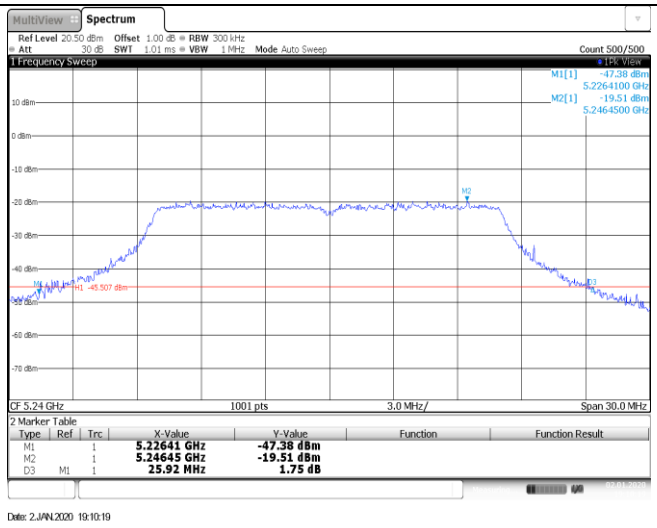
Band III	802.11n (HT20)
CH_L	
CH_M	
CH_H	

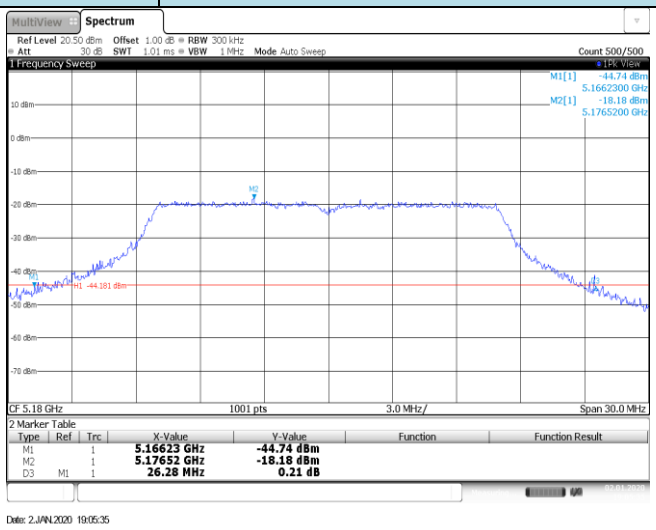
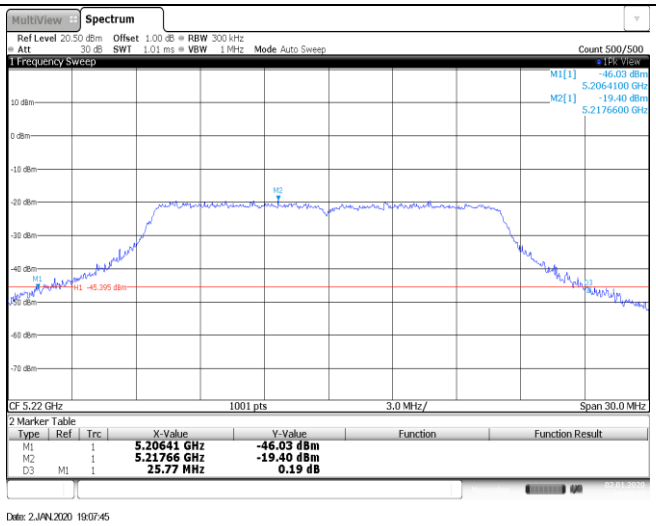
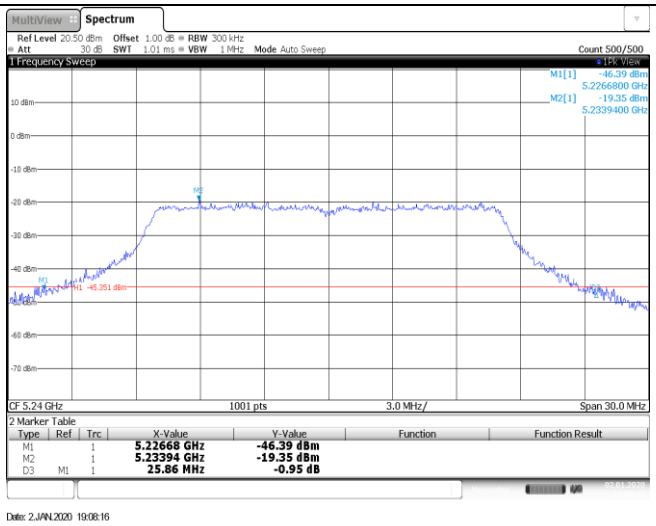
Band III	802.11a
CH_L	
CH_M	
CH_H	

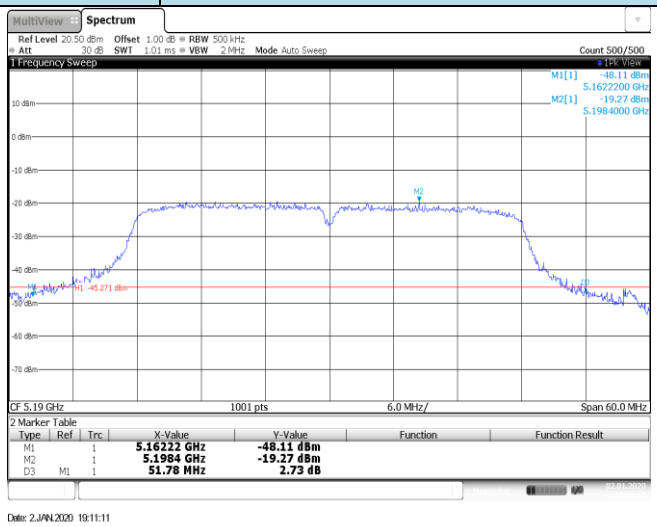
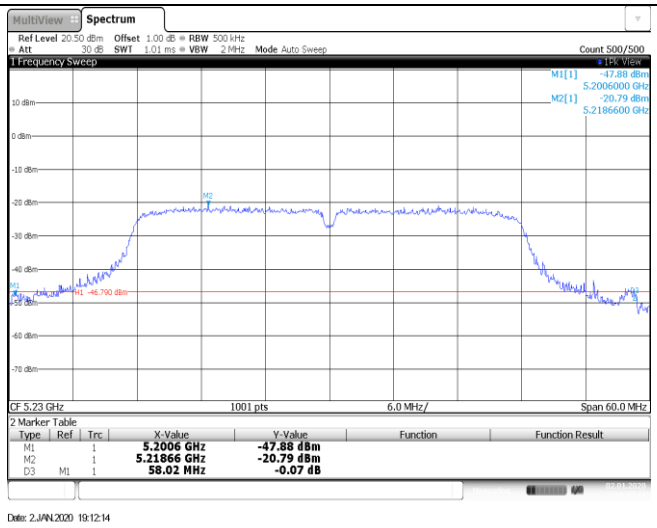
Band III	802.11n (HT40)
CH_L	
CH_M	
CH_H	

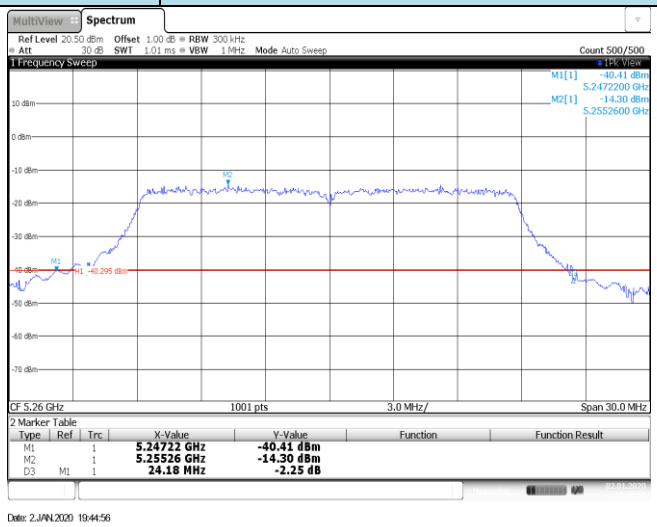
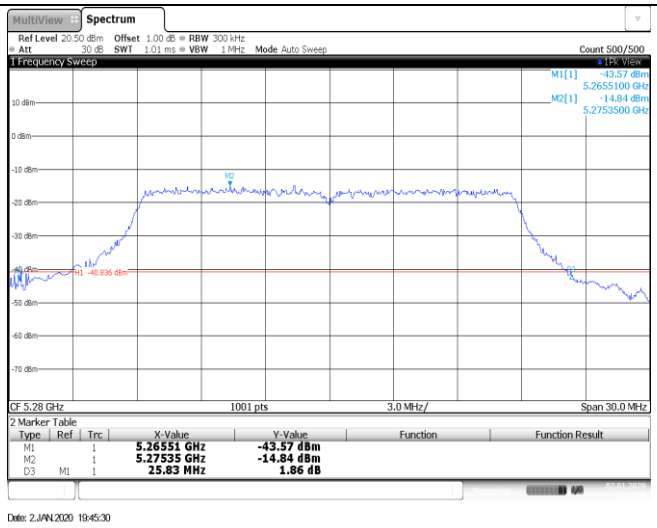
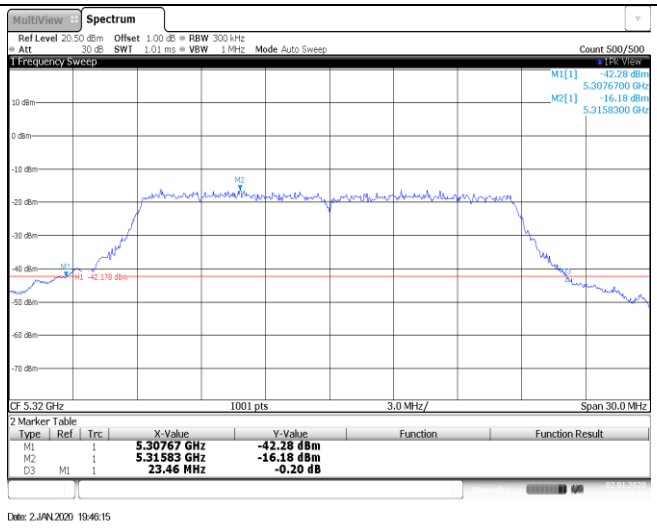
Appendix C：26dB bandwidth

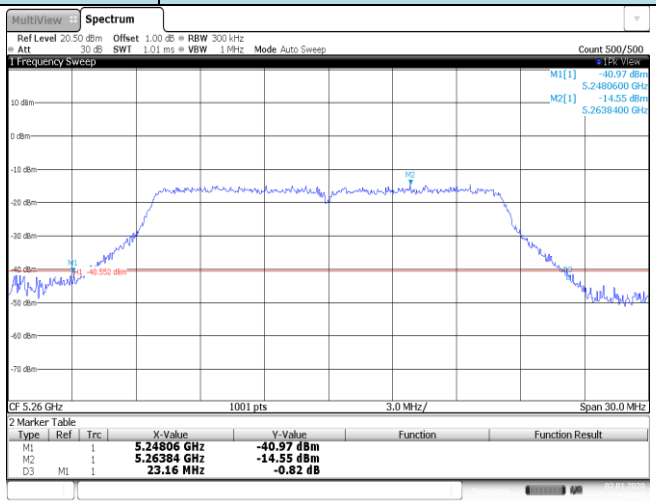
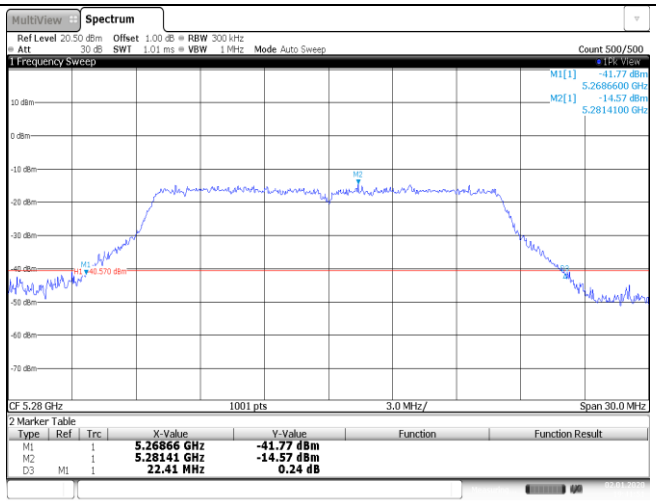
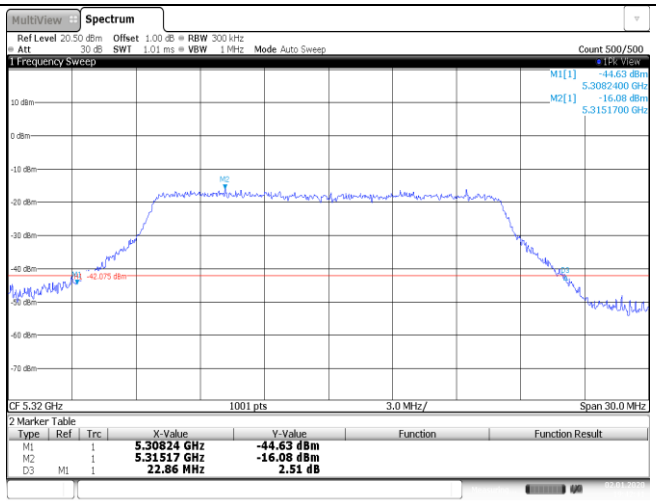
Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
I	20	802.11n	CH_L	25.32	Pass
			CH_M	26.37	
			CH_H	25.92	
		802.11a	CH_L	26.28	Pass
			CH_M	25.77	
			CH_H	25.86	
	40	802.11n	CH_L	51.78	Pass
			CH_H	58.02	
II	20	802.11n	CH_L	24.18	Pass
			CH_M	25.83	
			CH_H	23.46	
		802.11a	CH_L	23.16	Pass
			CH_M	22.41	
			CH_H	22.86	
	40	802.11n	CH_L	53.94	Pass
			CH_H	57.84	
Band	Bandwidth (MHz)	Type	Channel	26dB bandwidth (MHz)	Result
III	20	802.11n	CH_L	23.43	Pass
			CH_M	23.10	
			CH_H	22.92	
		802.11a	CH_L	23.19	Pass
			CH_M	22.62	
			CH_H	22.71	
	40	802.11n	CH_L	60.00	Pass
			CH_M	58.62	
			CH_H	59.94	

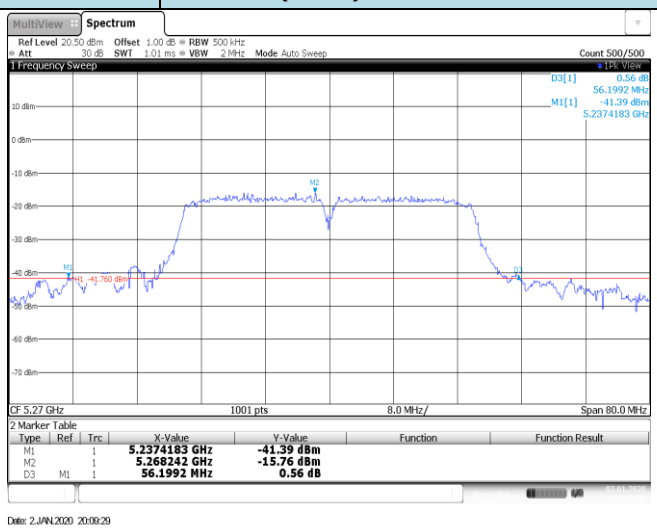
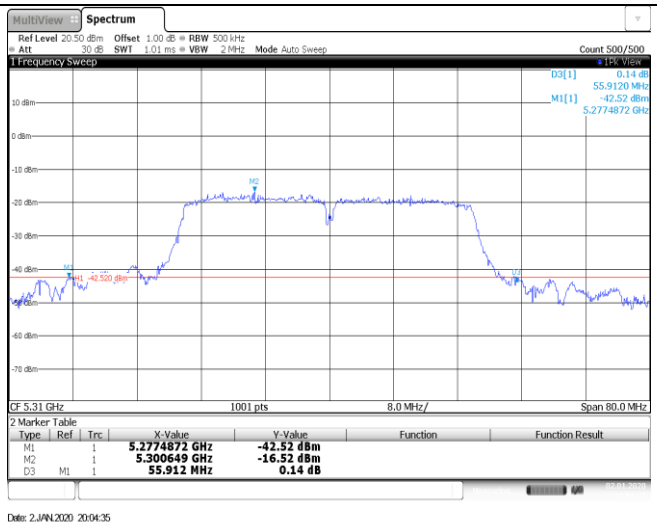
Band I	802.11n (HT20)
CH_L	
CH_M	
CH_H	

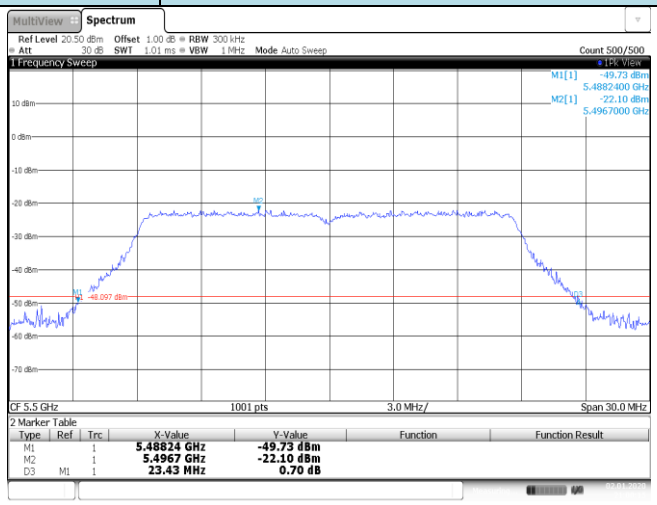
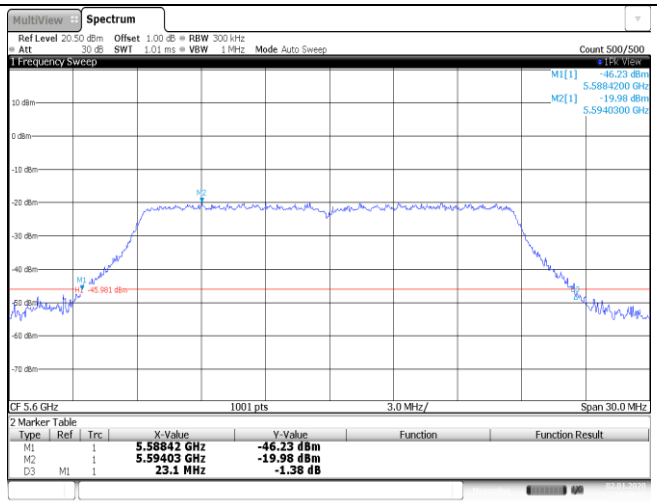
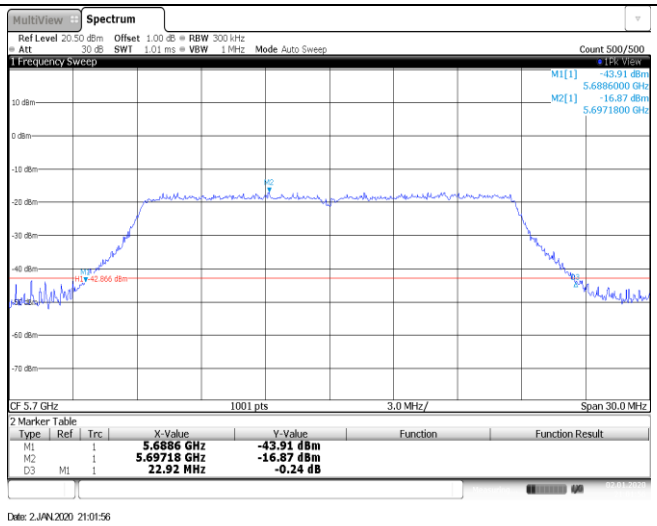
Band I	802.11a
CH_L	
CH_M	
CH_H	

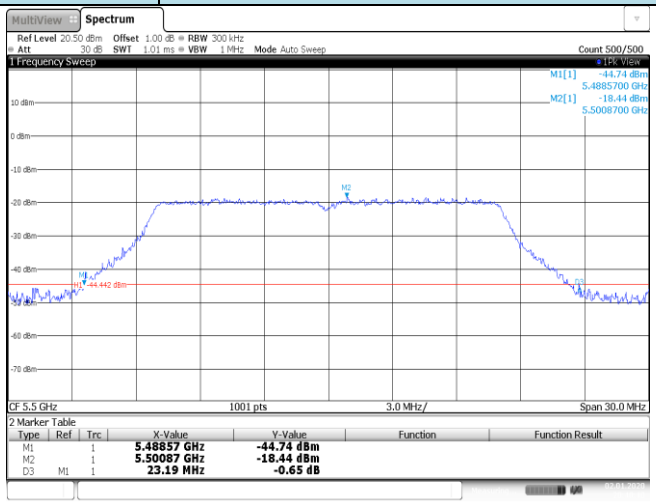
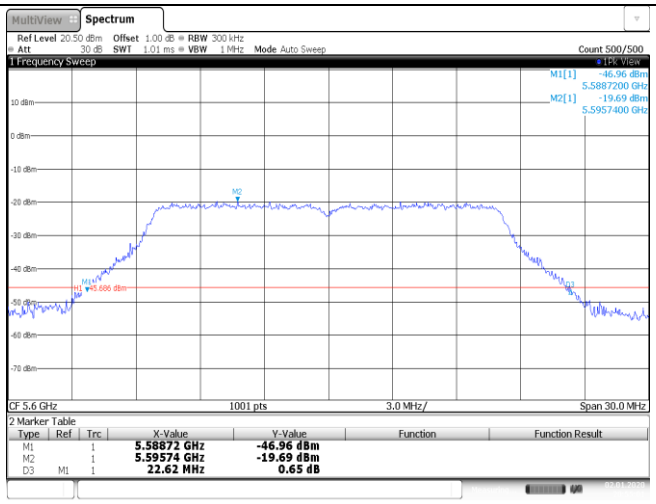
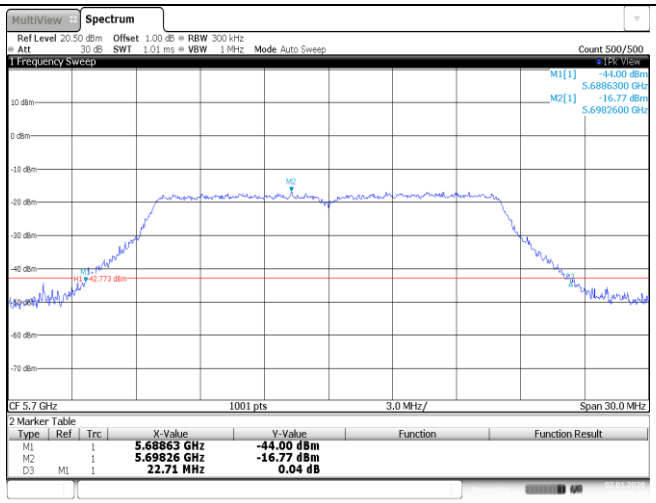
Band I	802.11n (HT40)
CH_L	
CH_H	

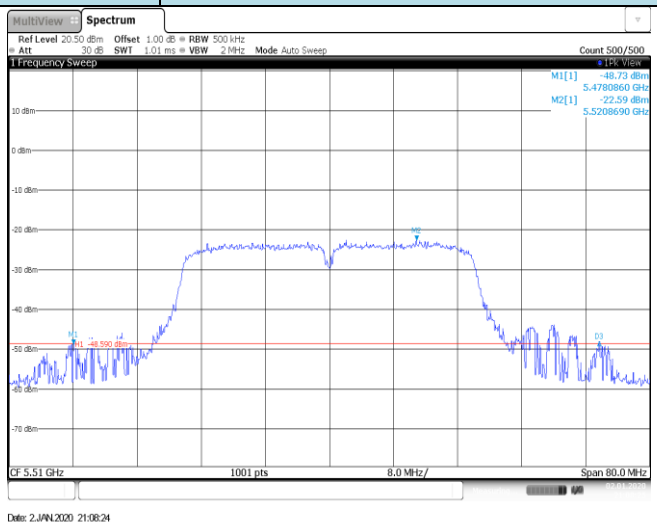
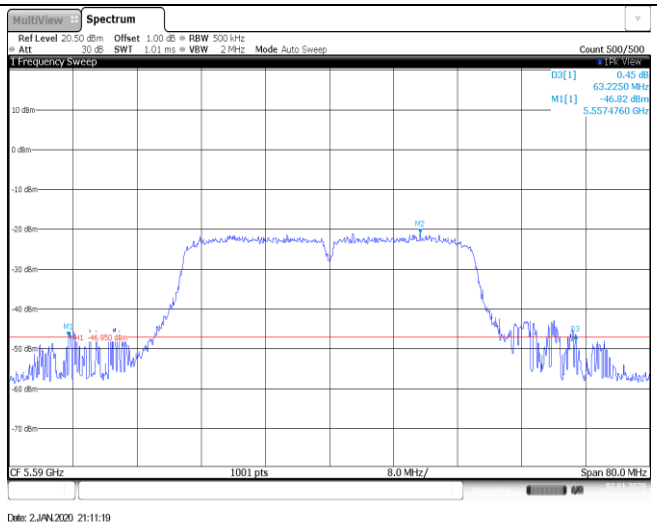
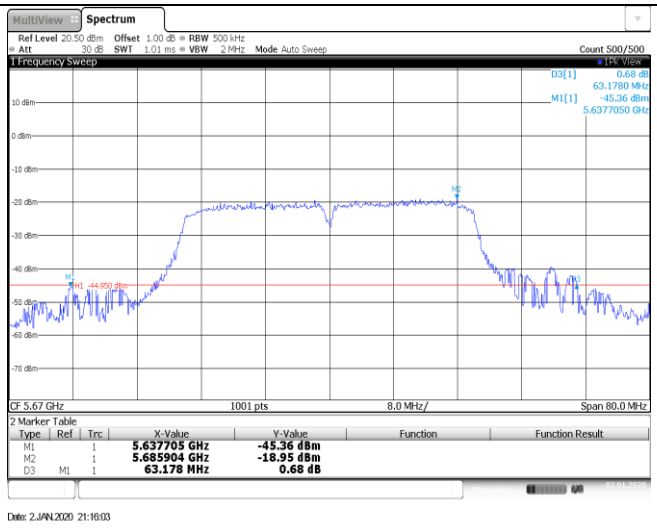
Band II	802.11n (HT20)
CH_L	
CH_M	
CH_H	

Band II	802.11a
CH_L	
CH_M	
CH_H	

Band II	802.11n (HT40)
CH_L	
CH_H	

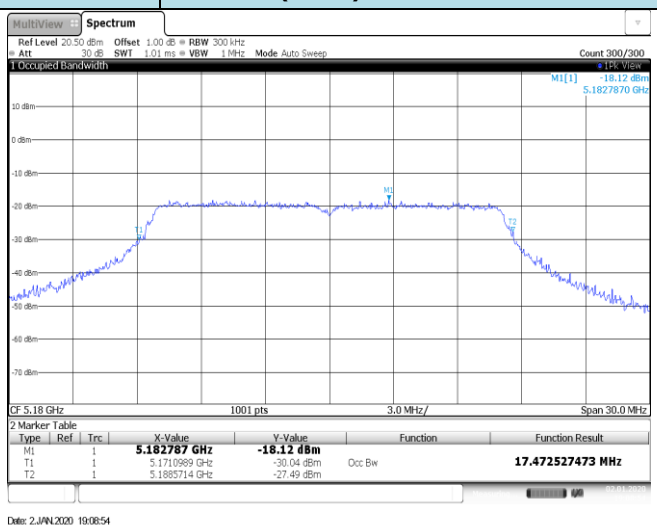
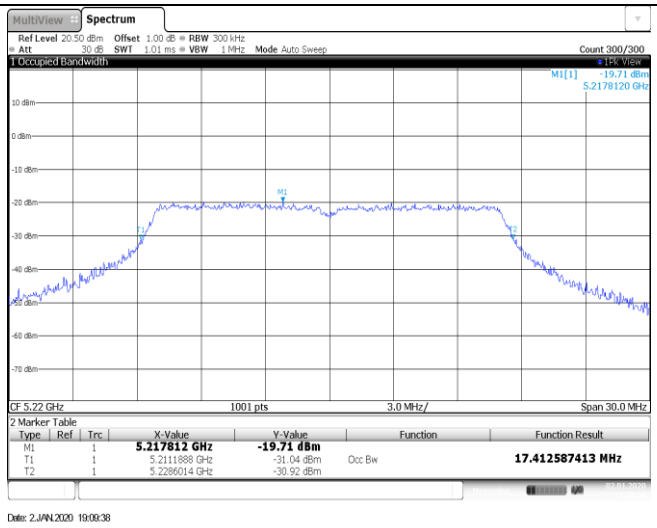
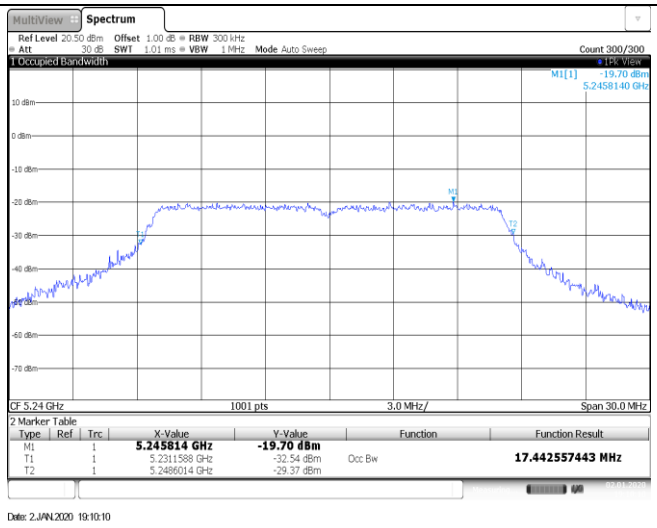
Band III	802.11n (HT20)
CH_L	
CH_M	
CH_H	

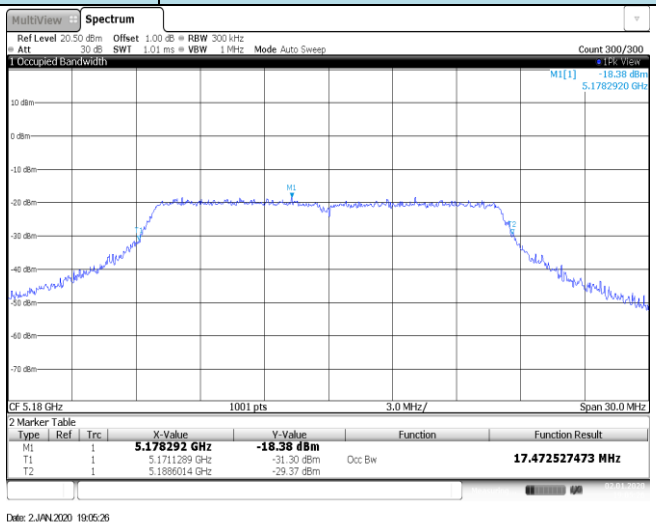
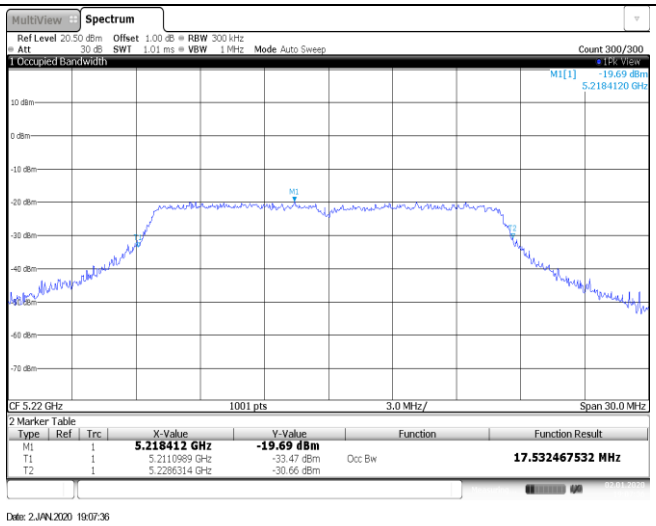
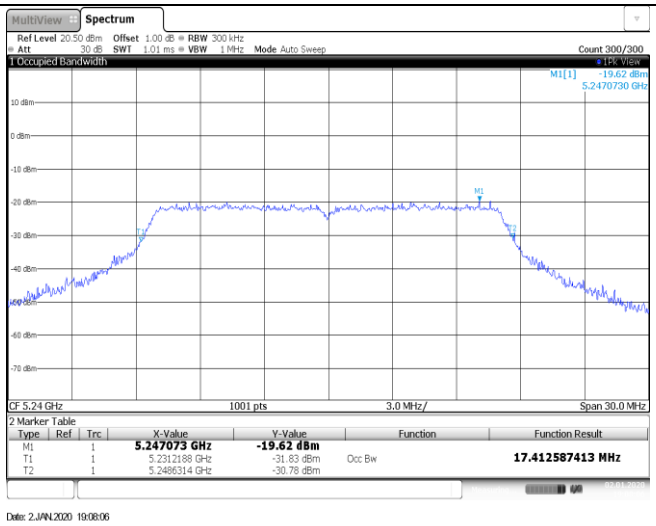
Band III	802.11a
CH_L	
CH_M	
CH_H	

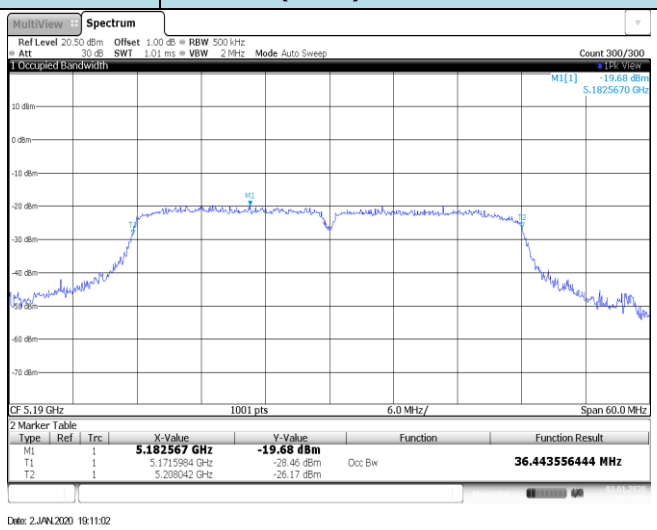
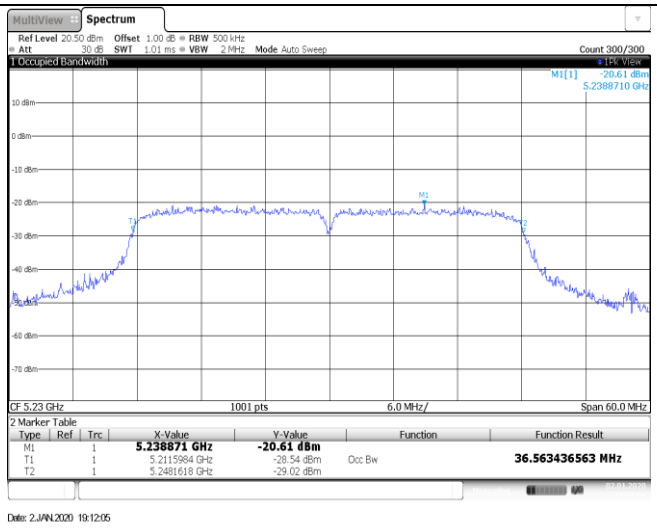
Band III	802.11n (HT40)
CH_L	
CH_M	
CH_H	

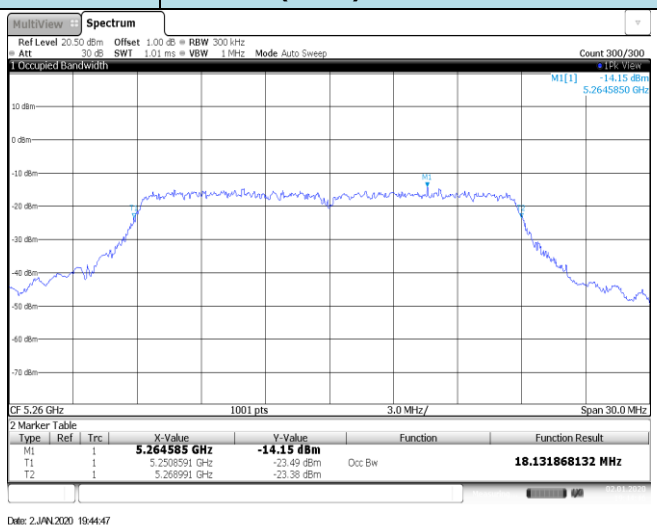
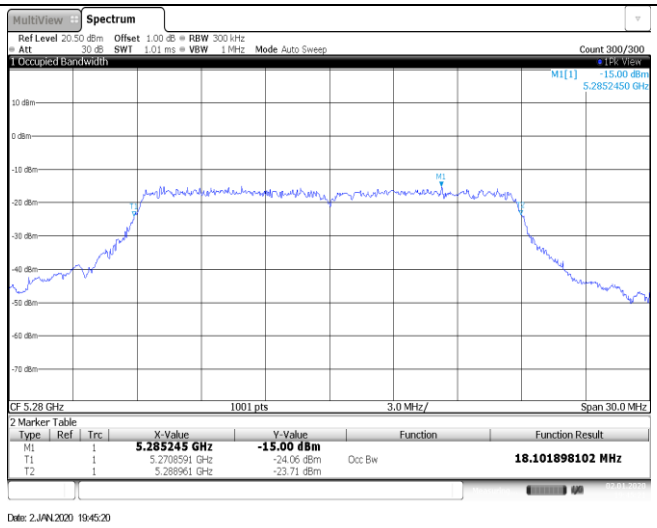
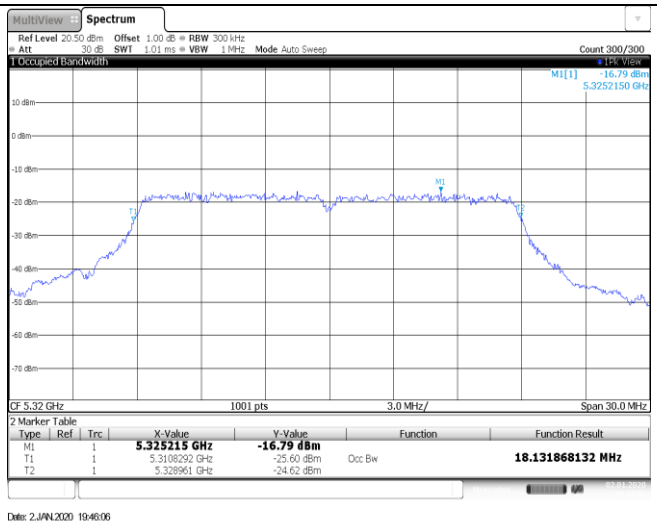
Appendix D：99% Occupy bandwidth

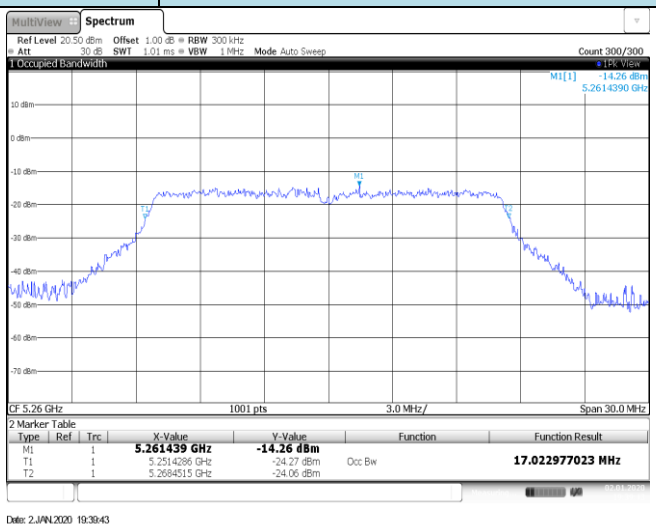
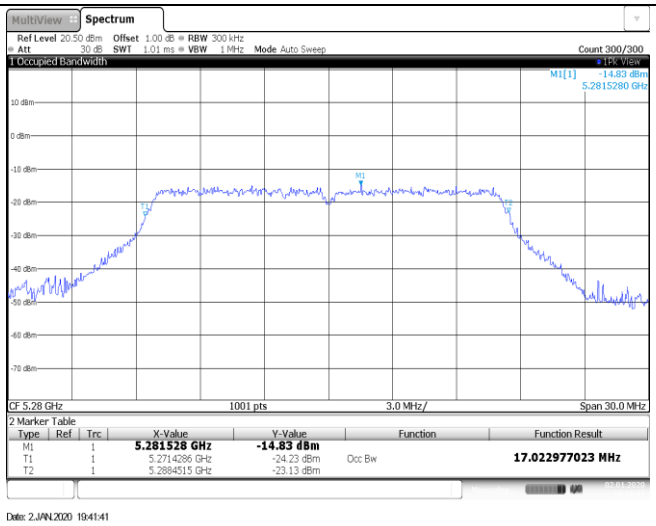
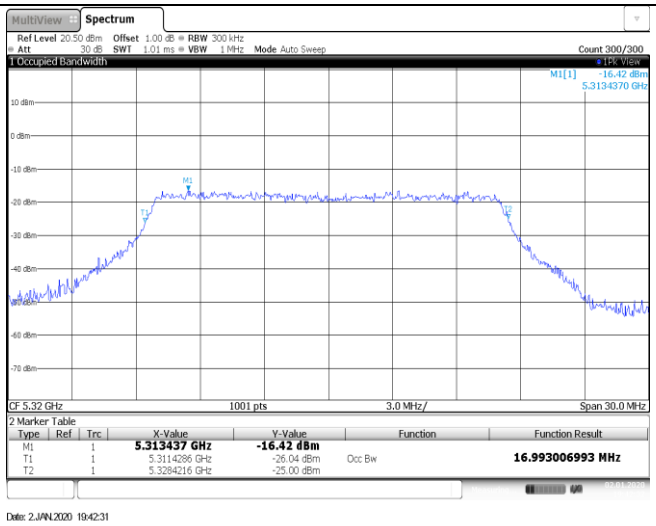
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwith (MHz)	Result
I	20	802.11n	CH_L	17.47	Pass
			CH_M	17.41	
			CH_H	17.44	
		802.11a	CH_L	17.47	Pass
			CH_M	17.53	
			CH_H	17.41	
	40	802.11n	CH_L	36.44	Pass
			CH_H	36.56	
II	20	802.11n	CH_L	18.13	Pass
			CH_M	18.10	
			CH_H	18.13	
		802.11a	CH_L	17.02	Pass
			CH_M	17.02	
			CH_H	16.99	
	40	802.11n	CH_L	36.62	Pass
			CH_H	36.62	
Band	Bandwidth (MHz)	Type	Channel	99% Occupy bandwith (MHz)	Result
III	20	802.11n	CH_L	18.19	Pass
			CH_M	18.16	
			CH_H	18.16	
		802.11a	CH_L	17.20	Pass
			CH_M	17.26	
			CH_H	17.20	
	40	802.11n	CH_L	36.56	Pass
			CH_M	36.50	
			CH_H	36.50	

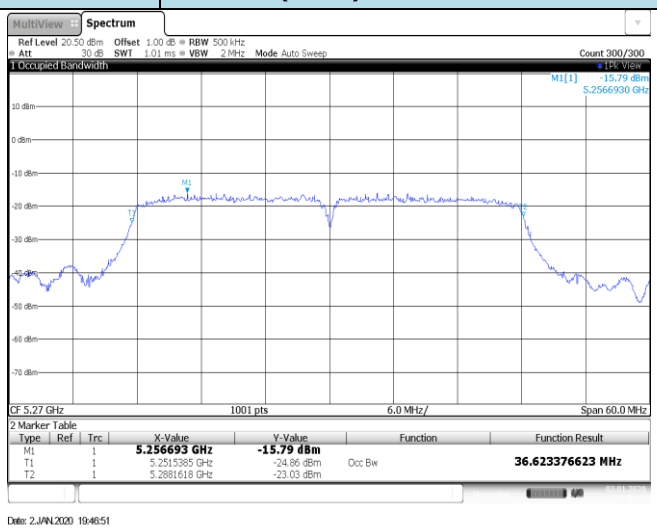
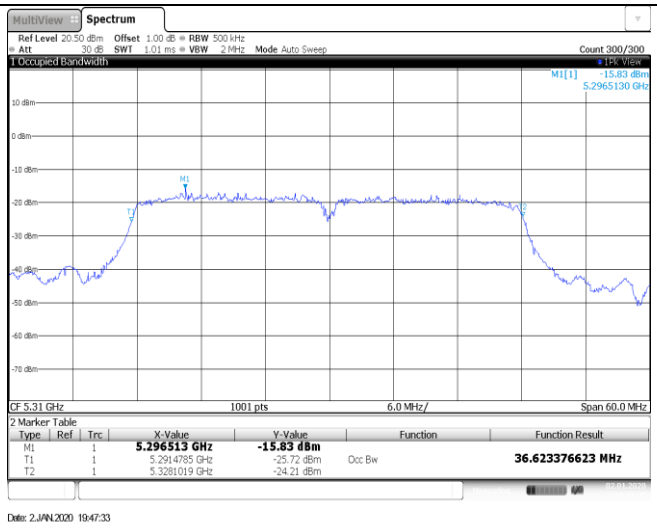
Band I	802.11n (HT20)
CH_L	
CH_M	
CH_H	

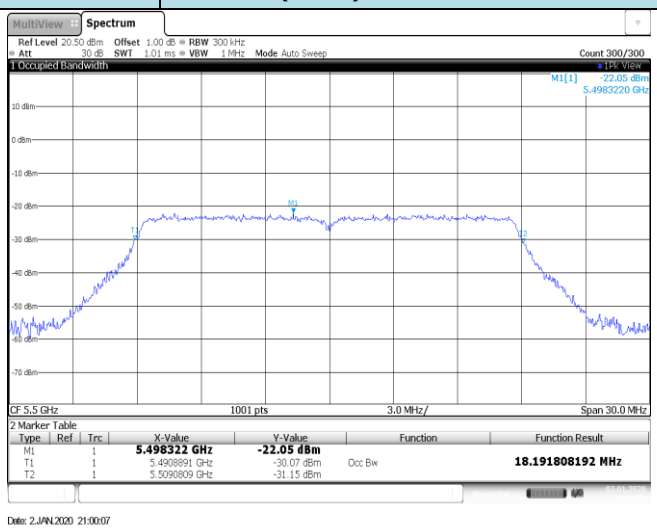
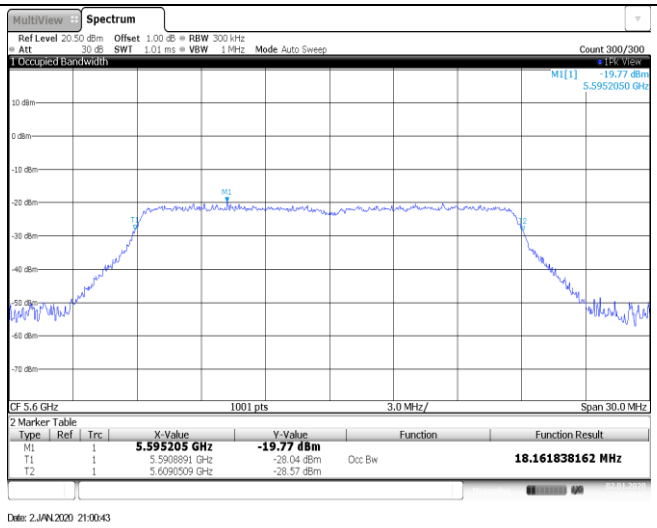
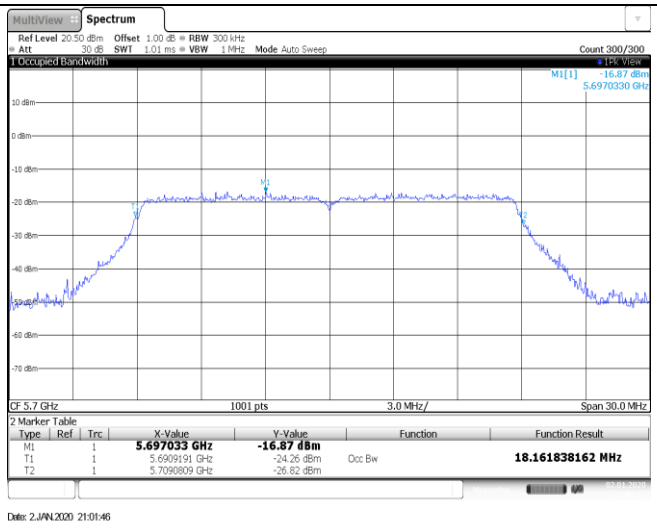
Band I	802.11a
CH_L	
CH_M	
CH_H	

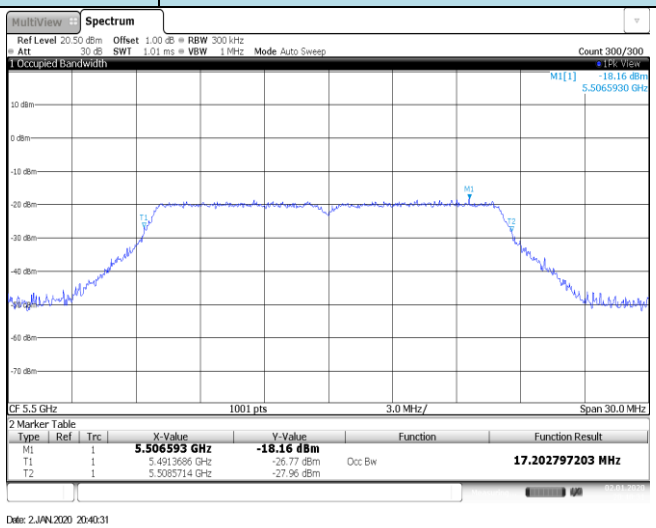
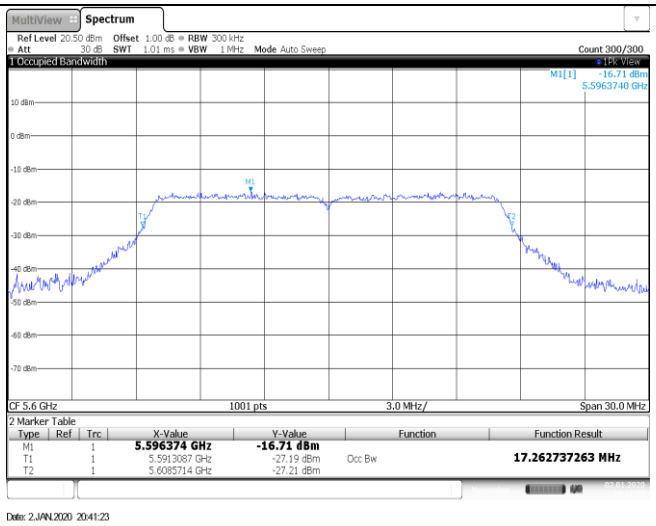
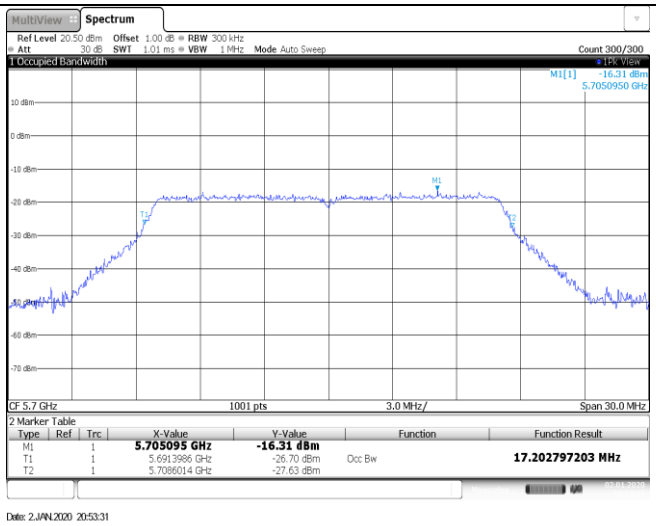
Band I	802.11n (HT40)
CH_L	
CH_H	

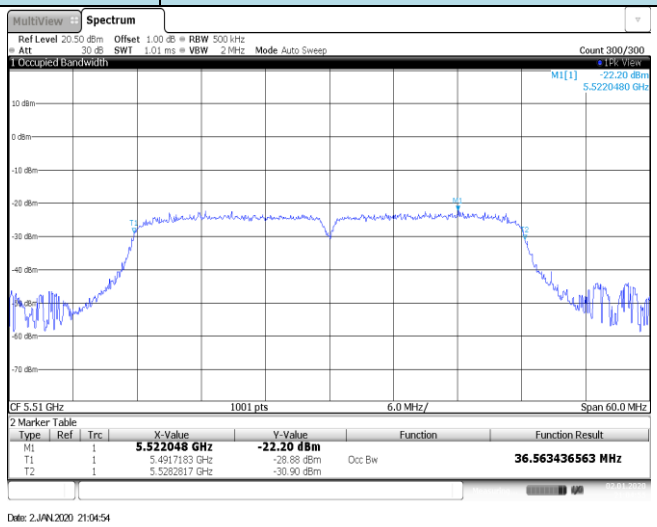
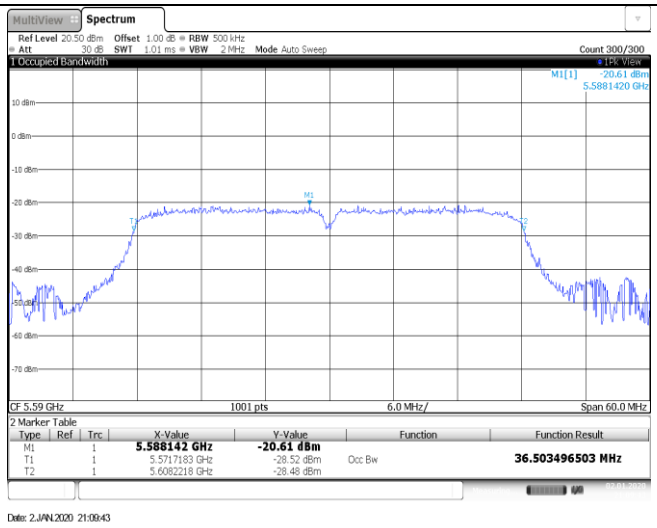
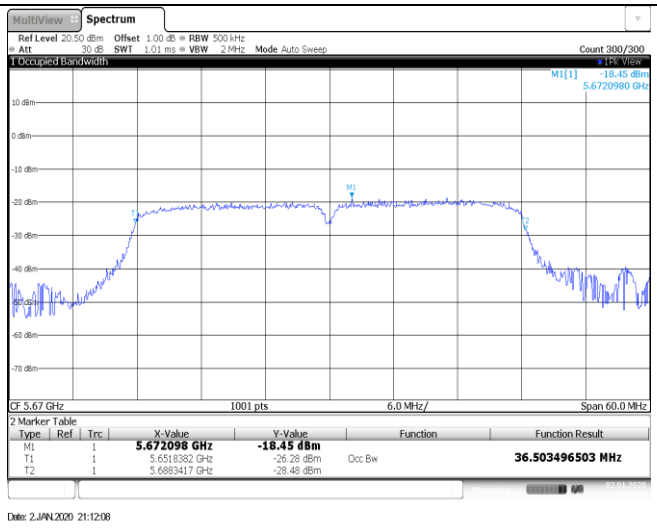
Band II	802.11n (HT20)
CH_L	
CH_M	
CH_H	

Band II	802.11a
CH_L	
CH_M	
CH_H	

Band II	802.11n (HT40)
CH_L	
CH_H	

Band III	802.11n (HT20)
CH_L	
CH_M	
CH_H	

Band III	802.11a
CH_L	
CH_M	
CH_H	

Band III	802.11n (HT40)
CH_L	
CH_M	
CH_H	

Appendix E：Frequency stability

Voltage VS Frequency stability

Band: I			Test Frequency: 5180.00MHz	
Temperature (℃)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
25	V_L	-26000.00	-5.01931	PASS
25	V_N	-26000.00	-5.01931	PASS
25	V_H	-26000.00	-5.01931	PASS

Band: II			Test Frequency: 5260.00MHz	
Temperature (℃)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
25	V_L	-25000.00	-4.75285	PASS
25	V_N	-26000.00	-4.94297	PASS
25	V_H	-25000.00	-4.75285	PASS

Band: III			Test Frequency: 5500.00MHz	
Temperature (℃)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
25	V_L	-27000.00	-4.90909	PASS
25	V_N	-27000.00	-4.90909	PASS
25	V_H	-27000.00	-4.90909	PASS

Temperature VS Frequency stability

Band: I			Test Frequency: 5180.00MHz	
Voltage (V)	Temperature (℃)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V_N	-20	-24000.00	-4.63321	PASS
V_N	-10	-24000.00	-4.63321	PASS
V_N	0	-24000.00	-4.63321	PASS
V_N	10	-23000.00	-4.44015	PASS
V_N	20	-23000.00	-4.44015	PASS
V_N	30	-22000.00	-4.24710	PASS
V_N	40	-22000.00	-4.24710	PASS
V_N	50	-22000.00	-4.24710	PASS

Band: II			Test Frequency: 5260.00MHz	
Voltage (V)	Temperature (℃)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V_N	-20	-24000.00	-4.56274	PASS
V_N	-10	-24000.00	-4.56274	PASS
V_N	0	-24000.00	-4.56274	PASS
V_N	10	-23000.00	-4.37262	PASS
V_N	20	-23000.00	-4.37262	PASS
V_N	30	-23000.00	-4.37262	PASS
V_N	40	-23000.00	-4.37262	PASS
V_N	50	-23000.00	-4.37262	PASS

Band: III			Test Frequency: 5500.00MHz	
Voltage (V)	Temperature (℃)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
V_N	-20	-27000.00	-4.90909	PASS
V_N	-10	-27000.00	-4.90909	PASS
V_N	0	-27000.00	-4.90909	PASS
V_N	10	-27000.00	-4.90909	PASS
V_N	20	-27000.00	-4.90909	PASS
V_N	30	-27000.00	-4.90909	PASS
V_N	40	-27000.00	-4.90909	PASS
V_N	50	-27000.00	-4.90909	PASS

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