

6.5. 802.11ac(40) mode

Peak Antenna Gain	4.48	dBi
Declaration Output Power	1.7	mW/MHz
	2.3	dBm/MHz
E.I.R.P	4.7692	mW/MHz
	6.7845	dBm/MHz
Input Power Voltage	100.0	VAC

Tested Circuit Insertion Loss	Tx1	Refer to the insertion loss	dB
Transmission Time	ON TIME (1sec or less)	0.075928	ms
	OFF TIME (0.1sec or more)	0.100086	ms
	Ratio	0.4314	%

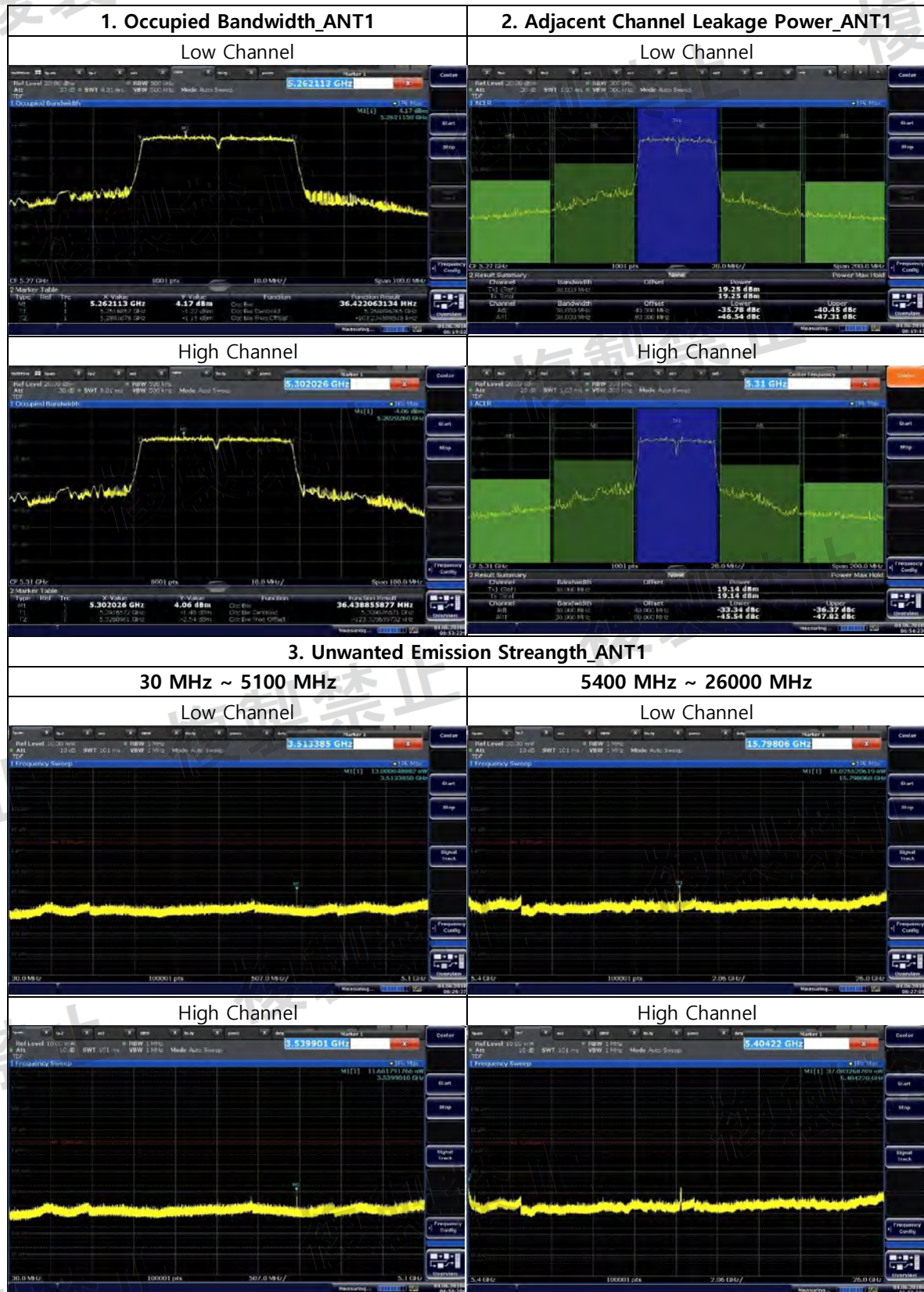
Measurement Channel	Ch.	54	62		
Measurement Frequency	MHz	5270	5310	Result	Limit
Frequency Measurements(Tx1)	MHz	5269.931006	5309.930524	----	----
Frequency Toleranc(Tx1)	ppm	-13.09176	-13.08405	PASS	±20×10-6(20ppm)
Frequency Measurements(Tx2)	MHz	5269.931015	5309.930515	----	----
Frequency Tolerance(Tx2)	ppm	-13.09019	-13.08573	PASS	±20×10-6(20ppm)
Occupied Bandwidth(Tx1)	MHz	36.42	36.44	PASS	38MHz or below
Occupied Bandwidth(Tx2)	MHz	36.37	36.39	PASS	38MHz or below
RF Output Power(Tx1)	mW/MHz	0.574906	0.572588	PASS	5mW/MHz or below
RF Output Power(Tx2)	mW/MHz	0.500725	0.509997	PASS	5mW/MHz or below
RF Output Power (Tx1)or(Tx1+2)or(Tx1+2+3)or(Tx1+2+3+4)	mW/MHz	1.075631	1.082585	PASS	5mW/MHz or below
RF Output Power Tolerance (Tx1)or(Tx1+2)or(Tx1+2+3)or(Tx1+2+3+4)	%	-36.728	-36.319	PASS	+20% to -80%

Measurement Channel		Ch.	54		62		
Measurement Frequency		MHz	5270		5310	Result	Limit
Unwanted (Spurious) Emission Strength(Tx1)	30MHz to 5100MHz	uW/MHz	0.013		0.012	PASS	2.5uW/MHz or below
		MHz	3513.385		3539.901	----	----
	5400MHz to 26GHz	uW/MHz	0.015		0.037	PASS	2.5uW/MHz or below
		MHz	15798.060		5404.220	----	----
Unwanted (Spurious) Emission Strength(Tx2)	30MHz to 5100MHz	uW/MHz	0.005		0.006	PASS	2.5uW/MHz or below
		MHz	5076.653		5081.064	----	----
	5400MHz to 26GHz	uW/MHz	0.020		0.022	PASS	2.5uW/MHz or below
		MHz	15797.640		15949.880	----	----
Unwanted (Spurious) Emission Strength (Tx1)or(Tx1+2)or (Tx1+2+3)or (Tx1+2+3+4)	30MHz to 5100MHz	uW/MHz	0.018		0.018	PASS	2.5uW/MHz or below
		MHz	---		---	----	----
	5400MHz to 26GHz	uW/MHz	0.035		0.059	PASS	2.5uW/MHz or below
		MHz	---		---	----	----
Adjacent Channel Leakage Power (Tx1)	cf -40MHz	dB	-35.780		-33.340	PASS	-25dBc or below
	cf +40MHz	dB	-40.450		-36.370	PASS	-25dBc or below
	cf -80MHz	dB	-46.540		-45.540	PASS	-40dBc or below
	cf +80MHz	dB	-47.310		-47.820	PASS	-40dBc or below
Adjacent Channel Leakage Power (Tx2)	cf -40MHz	dB	-34.670		-35.730	PASS	-25dBc or below
	cf +40MHz	dB	-39.430		-40.000	PASS	-25dBc or below
	cf -80MHz	dB	-45.650		-46.500	PASS	-40dBc or below
	cf +80MHz	dB	-46.330		-47.650	PASS	-40dBc or below

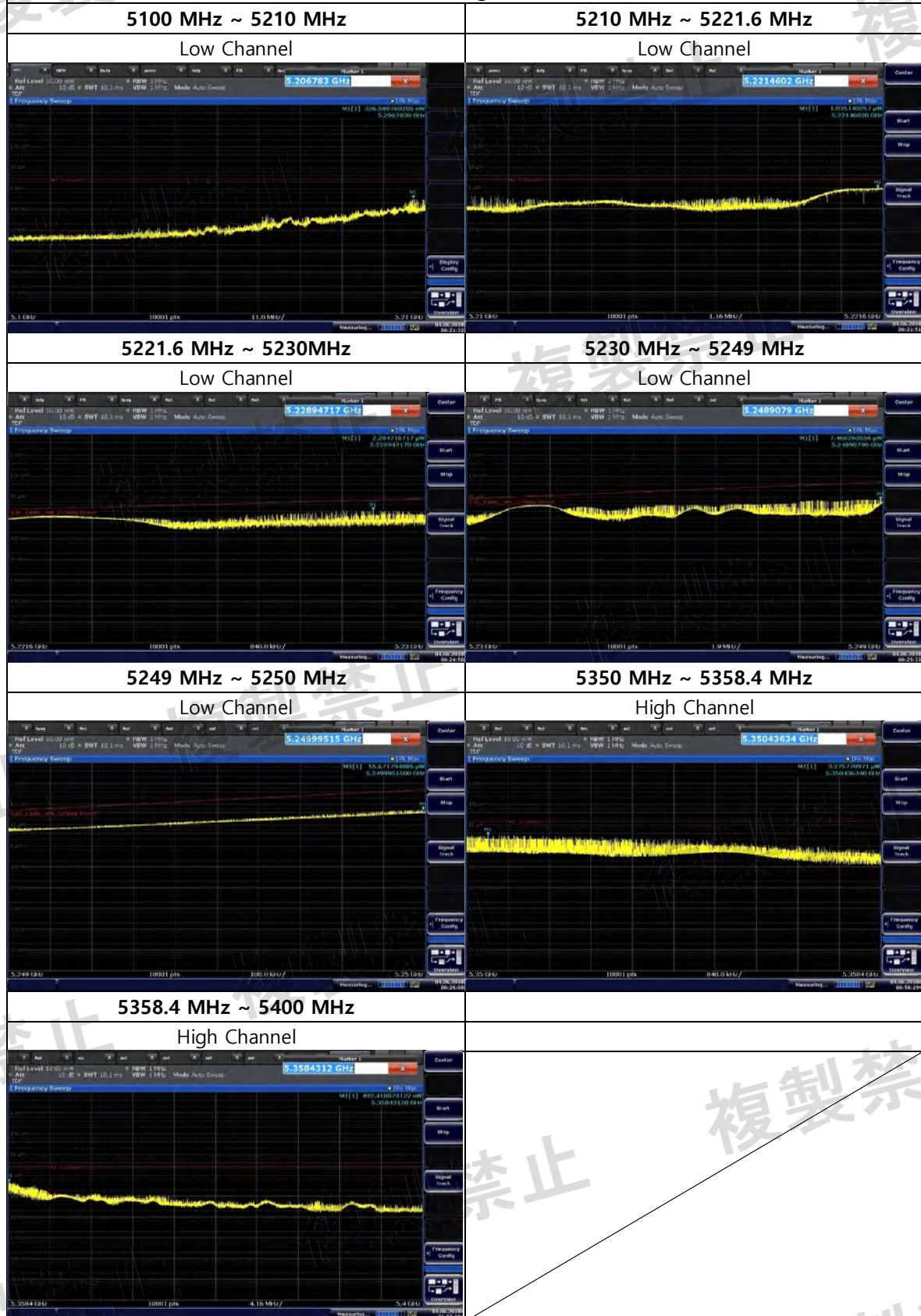
Measurement Channel		Ch.	54		62		
Measurement Frequency		MHz	5270		5310	Result	Limit
Out-Band Leakage Power (Tx1)	5100 to 5210MHz	uW/MHz	0.337			PASS	2.5uW/MHz or below
		MHz	5206.783			----	----
	5210 to 5221.6 MHz	uW/MHz	1.035			PASS	2.5uW/MHz or below
		MHz	5221.460			----	----
	5221.6 to 5230MHz	uW/MHz	2.285			PASS	$10^{(1550)(40)-1.4\log(12)}$ mW/MHz or below
		MHz	5228.947			----	----
	Limit	uW/MHz	6.852			----	----
	5230 to 5249MHz	uW/MHz	7.466			PASS	$10^{(1550)(21)-1.4\log(12)}$ mW/MHz or below
		MHz	5248.908			----	----
	Limit	uW/MHz	49.556			----	----
	5249 to 5250MHz	uW/MHz	55.672			PASS	$10^{(1550)(20)-1.4\log(12)}$ mW/MHz or below
		MHz	5249.995			----	----
	Limit	uW/MHz	494.447			----	----
	5350 to 5358.4MHz	uW/MHz			3.276	PASS	15uW/MHz or below
		MHz			5350.436	----	----
Out-Band Leakage Power (Tx2)	5100 to 5210MHz	uW/MHz	0.157			PASS	2.5uW/MHz or below
		MHz	5208.389			----	----
	5210 to 5221.6 MHz	uW/MHz	0.694			PASS	2.5uW/MHz or below
		MHz	5221.225			----	----
	5221.6 to 5230MHz	uW/MHz	1.131			PASS	$10^{(1550)(40)-1.4\log(12)}$ mW/MHz or below
		MHz	5229.827			----	----
	Limit	uW/MHz	7.737			----	----
	5230 to 5249MHz	uW/MHz	5.058			PASS	$10^{(1550)(21)-1.4\log(12)}$ mW/MHz or below
		MHz	5248.992			----	----
	Limit	uW/MHz	49.959			----	----
	5249 to 5250MHz	uW/MHz	40.247			PASS	$10^{(1550)(20)-1.4\log(12)}$ mW/MHz or below
		MHz	5249.981			----	----
	Limit	uW/MHz	478.983			----	----
	5350 to 5358.4MHz	uW/MHz			0.766	PASS	15uW/MHz or below
		MHz			5350.495	----	----
Out-Band Leakage Power (Tx1) or (Tx1+2) or (Tx1+2+3) or (Tx1+2+3+4)	5100 to 5210MHz	uW/MHz	0.494			PASS	2.5uW/MHz or below
		MHz	---			----	----
	5210 to 5221.6 MHz	uW/MHz	1.729			PASS	2.5uW/MHz or below
		MHz	---			----	----
	5221.6 to 5230MHz	uW/MHz	3.416			PASS	$10^{(1550)(40)-1.4\log(12)}$ mW/MHz or below
		MHz	5229.827			----	----
	Limit	uW/MHz	7.737			----	----
	5230 to 5249MHz	uW/MHz	12.524			PASS	$10^{(1550)(21)-1.4\log(12)}$ mW/MHz or below
		MHz	5248.992			----	----
	Limit	uW/MHz	49.959			----	----
	5249 to 5250MHz	uW/MHz	95.919			PASS	$10^{(1550)(20)-1.4\log(12)}$ mW/MHz or below
		MHz	5249.995			----	----
	Limit	uW/MHz	494.447			----	----
	5350 to 5358.4MHz	uW/MHz			4.042	PASS	15uW/MHz or below
		MHz			---	----	----
	5358.4 to 5400MHz	uW/MHz			0.731	PASS	2.5uW/MHz or below
		MHz			---	----	----

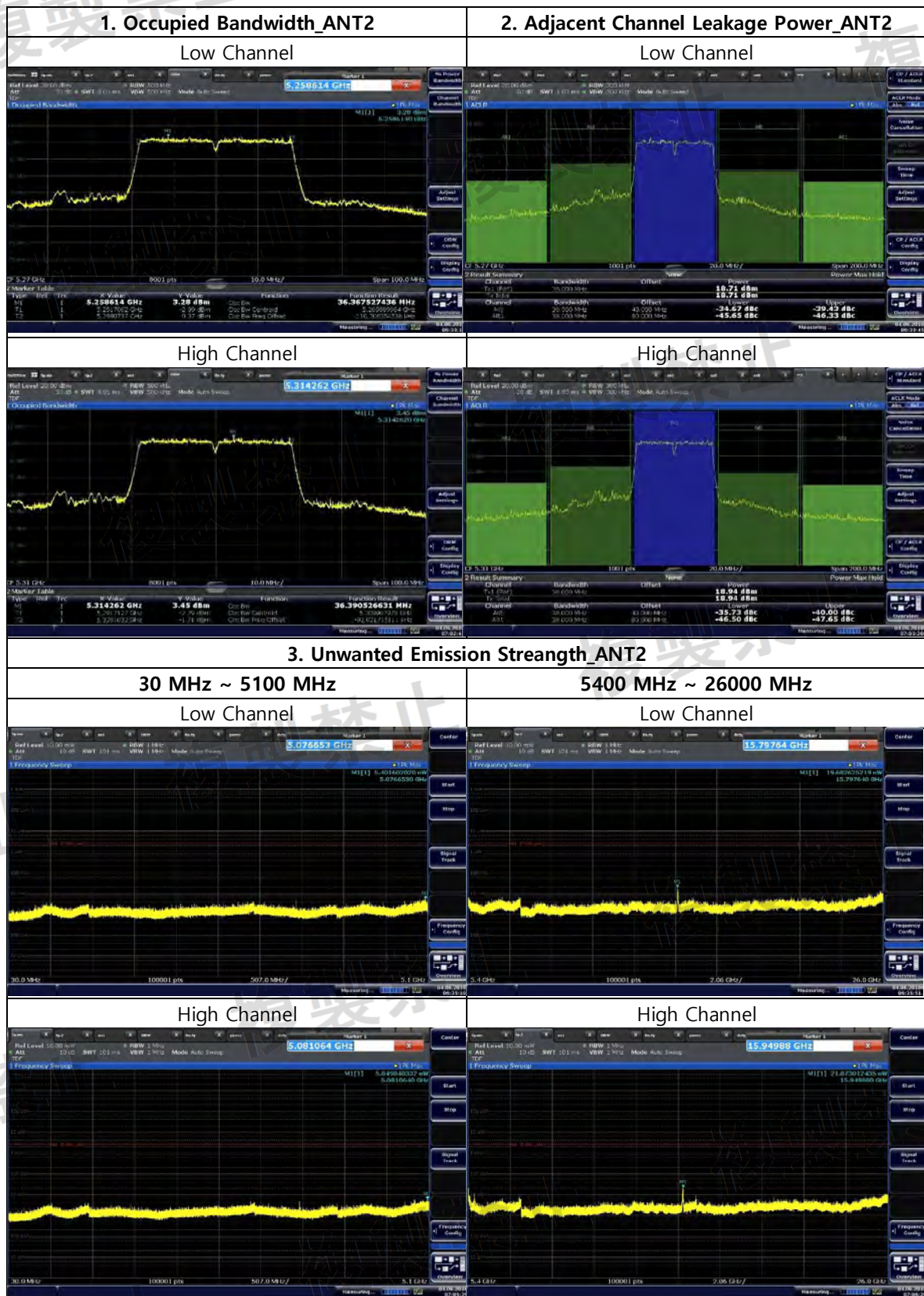
Measurement Channel		Ch.	54		62		
Measurement Frequency		MHz	5270		5310	Result	Limit
Secondary Emitted Radio Wave Strength (Rx1)	30MHz to 1000MHz	nW	0.010		0.012	PASS	4nW or below
		MHz	307.199		307.199	----	----
	1GHz to 26GHz	nW	0.115		0.157	PASS	20nW or below
		MHz	25851.130		25990.630	----	----
Secondary Emitted Radio Wave Strength (Rx2)	30MHz to 1000MHz	nW	0.012		0.012	PASS	4nW or below
		MHz	307.189		307.189	----	----
	1GHz to 26GHz	nW	0.157		0.142	PASS	20nW or below
		MHz	25844.130		25962.238	----	----
Secondary Emitted Radio Wave Strength (Rx1)or(Rx1+2) or (Rx1+2+3) or	30MHz to 1000MHz	nW	0.022		0.025	PASS	4nW or below
		----	---		---	----	----
	1GHz to 26GHz	nW	0.272		0.299	PASS	20nW or below
		----	---		---	----	----
Burst Length of Transmitted Signals			Good			PASS	4ms or below
Carrier Sensing Function			Good			PASS	100mV/m
Transmission Power Transmission Function			Good			PASS	3dB
Interference Prevention Function			Good			PASS	
Dynamic Frequency Selection			Good			PASS	

6.5.1. 802.11ac(40) mode_Test data

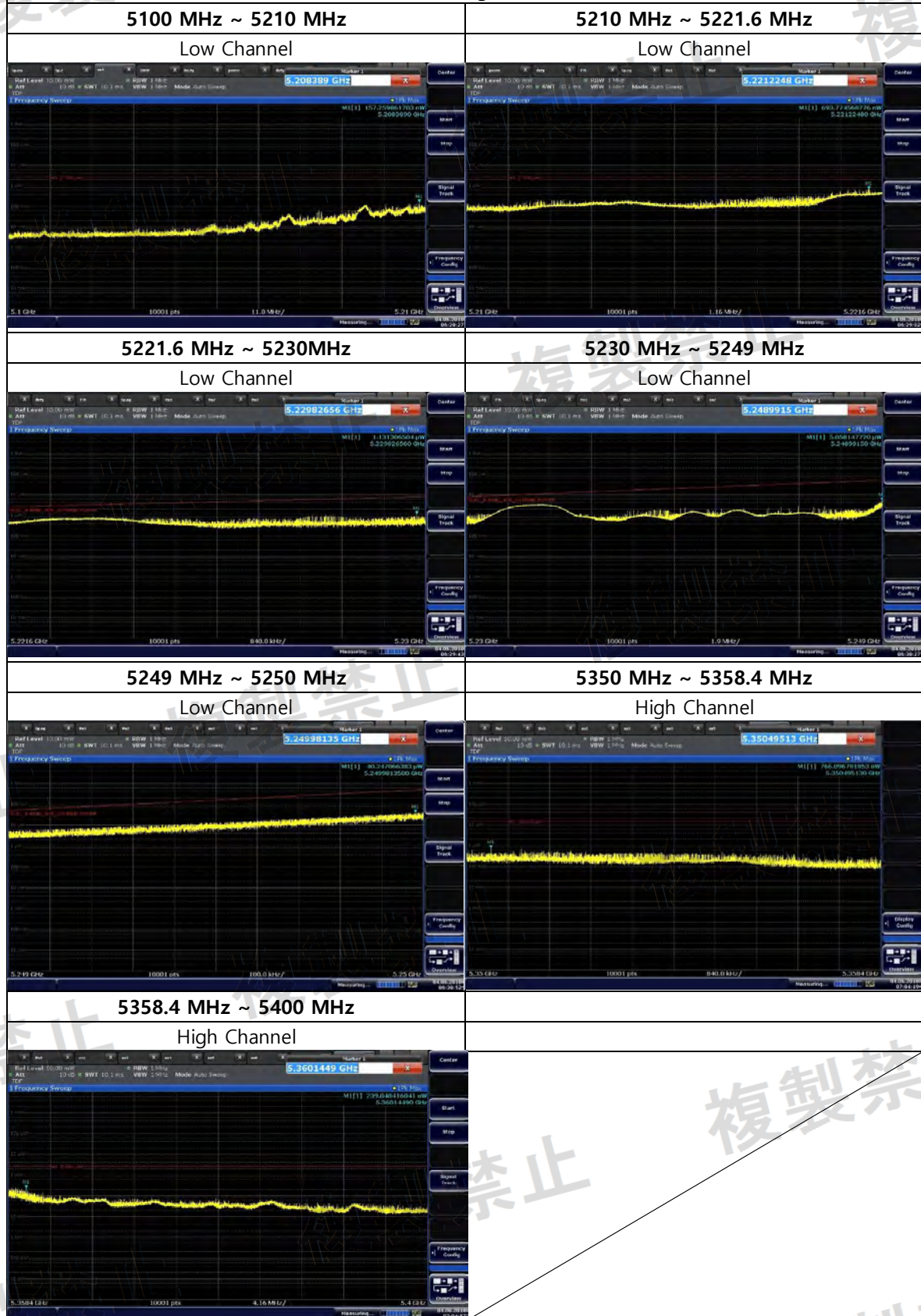


4. Out-band Leakage Power_ANT1





4. Out-band Leakage Power_ANT2



6.6. 802.11ac(80) mode

Peak Antenna Gain	4.48	dBi
Declaration Output Power	0.8	mW/MHz
	-0.9691	dBm/MHz
E.I.R.P	2.2443	mW/MHz
	3.5109	dBm/MHz
Input Power Voltage	100.0	VAC

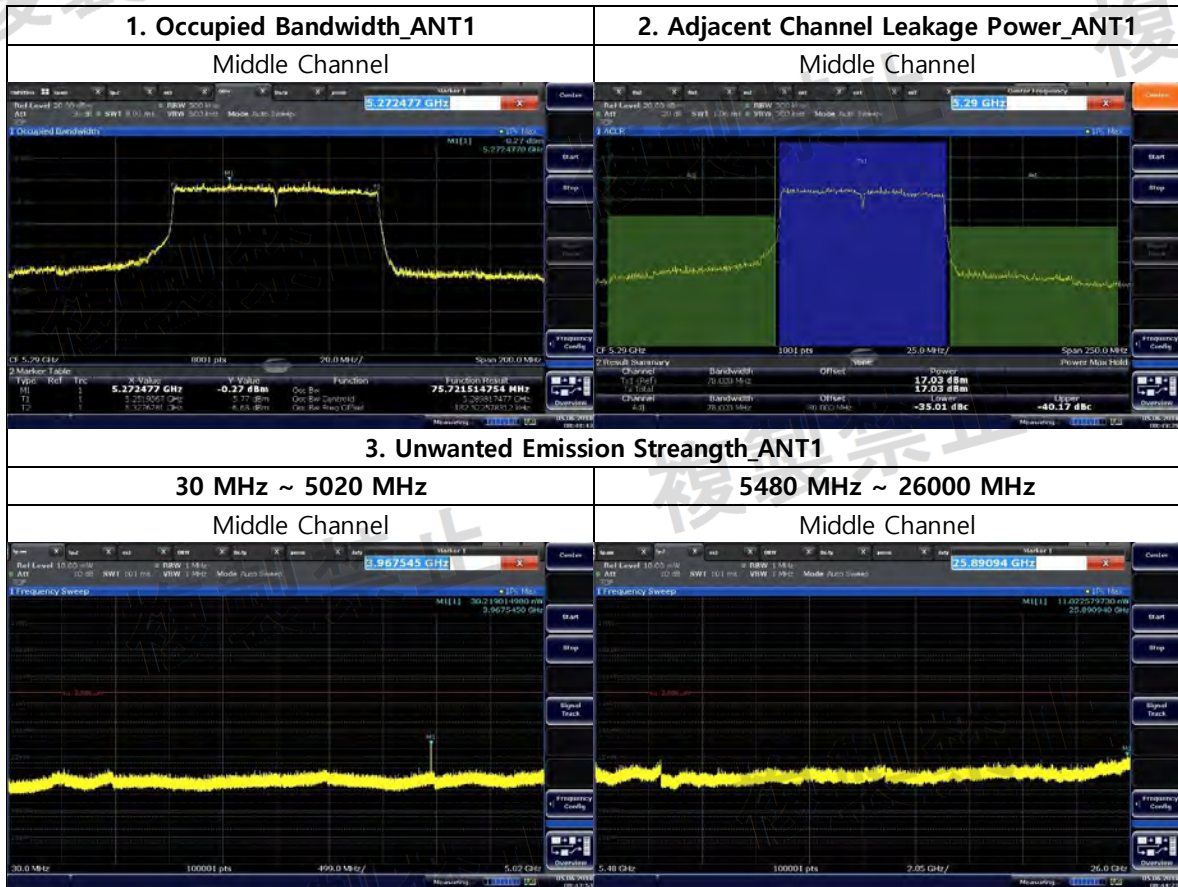
Tested Circuit Insertion Loss	Tx1	Refer to the insertion loss	dB
Transmission Time	ON TIME (1sec or less)	0.060191	ms
	OFF TIME (0.1sec or more)	0.100	ms
	Ratio	0.3754	%

Measurement Channel	Ch.	58			
Measurement Frequency	MHz	5290		Result	Limit
Frequency Measurements(Tx1)	MHz	5289.946480		----	----
Frequency Toleranc(Tx1)	ppm	-10.11722		PASS	±20×10-6(20ppm)
Frequency Measurements(Tx2)	MHz	5289.956654		----	----
Frequency Tolerance(Tx2)	ppm	-8.19391		PASS	±20×10-6(20ppm)
Occupied Bandwidth(Tx1)	MHz	75.7215148		PASS	78MHz or below
Occupied Bandwidth(Tx2)	MHz	75.7593401		PASS	78MHz or below
RF Output Power(Tx1)	mW/MHz	0.213116		PASS	2.5mW/MHz or below
RF Output Power(Tx2)	mW/MHz	0.191805		PASS	2.5mW/MHz or below
RF Output Power (Tx1)or(Tx1+2)or(Tx1+2+3)or(Tx1+2+3+4)	mW/MHz	0.404921		PASS	2.5mW/MHz or below
RF Output Power Tolerance (Tx1)or(Tx1+2)or(Tx1+2+3)or(Tx1+2+3+4)	%	-49.385		PASS	+20% to -80%

Measurement Channel	Ch.	58			
Measurement Frequency	MHz	5290		Result	Limit
Unwanted (Spurious) Emission Strength(Tx1)	30MHz to 5020MHz	uW/MHz	0.030	PASS	2.5uW/MHz or below
		MHz	3967.545	----	----
	5480MHz to 26GHz	uW/MHz	0.011	PASS	2.5uW/MHz or below
		MHz	25890.940	----	----
Unwanted (Spurious) Emission Strength(Tx2)	30MHz to 5020MHz	uW/MHz	0.006	PASS	2.5uW/MHz or below
		MHz	3967.195	----	----
	5480MHz to 26GHz	uW/MHz	0.015	PASS	2.5uW/MHz or below
		MHz	25971.170	----	----
Unwanted (Spurious) Emission Strength (Tx1)or(Tx1+2)or (Tx1+2+3)or (Tx1+2+3+4)	30MHz to 5020MHz	uW/MHz	0.036	PASS	2.5uW/MHz or below
		----	---	----	----
	5480MHz to 26GHz	uW/MHz	0.026	PASS	2.5uW/MHz or below
		----	---	----	----
Adjacent Channel Leakage Power (Tx1)	cf -80MHz	dB	-35.010	PASS	-25dBc or below
	cf +80MHz	dB	-40.170	PASS	-25dBc or below
Adjacent Channel Leakage Power (Tx2)	cf -80MHz	dB	-34.600	PASS	-25dBc or below
	cf +80MHz	dB	-40.070	PASS	-25dBc or below

Measurement Channel		Ch.		58			
Measurement Frequency		MHz		5290		Result	Limit
Secondary Emitted Radio Wave Strength (Rx1)	30MHz to 1000MHz	nW		0.011		PASS	4nW or below
		MHz		307.180		----	----
	1GHz to 26GHz	nW		0.133		PASS	20nW or below
		MHz		25979.630		----	----
Secondary Emitted Radio Wave Strength (Rx2)	30MHz to 1000MHz	nW		0.010		PASS	4nW or below
		MHz		307.189		----	----
	1GHz to 26GHz	nW		0.131		PASS	20nW or below
		MHz		25887.630		----	----
Secondary Emitted Radio Wave Strength (Rx1)or(Rx1+2) or (Rx1+2+3) or	30MHz to 1000MHz	nW				PASS	4nW or below
		----		---		----	----
	1GHz to 26GHz	nW		0.263		PASS	20nW or below
		----		---		----	----
Burst Length of Transmitted Signals			Good			PASS	4ms or below
Carrier Sensing Function			Good			PASS	100mV/m
Transmission Power Transmission Function			Good			PASS	3dB
Interference Prevention Function			Good			PASS	
Dynamic Frequency Selection			Good			PASS	

6.6.1. 802.11ac(80) mode_Test-data



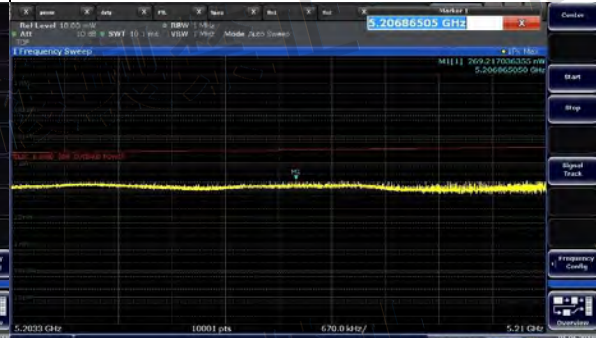
4. Out-band Leakage Power_ANT1

5020MHz ~ 5203.3 MHz

5203.3 MHz ~ 5210 MHz

Middle Channel

Middle Channel

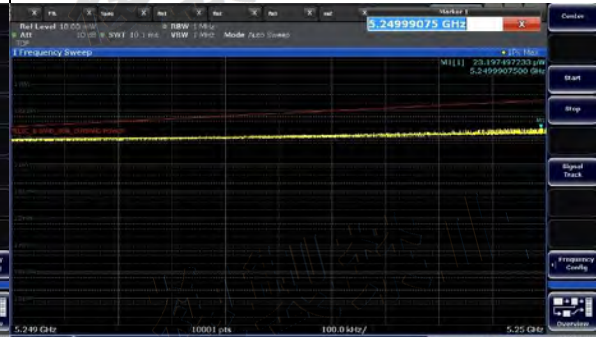
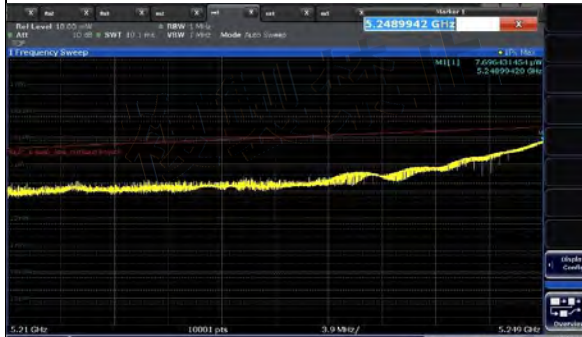


5210 MHz ~ 5249 MHz

5249 MHz ~ 5250 MHz

Middle Channel

Middle Channel

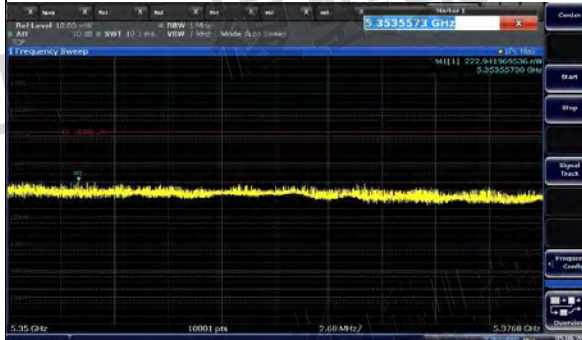


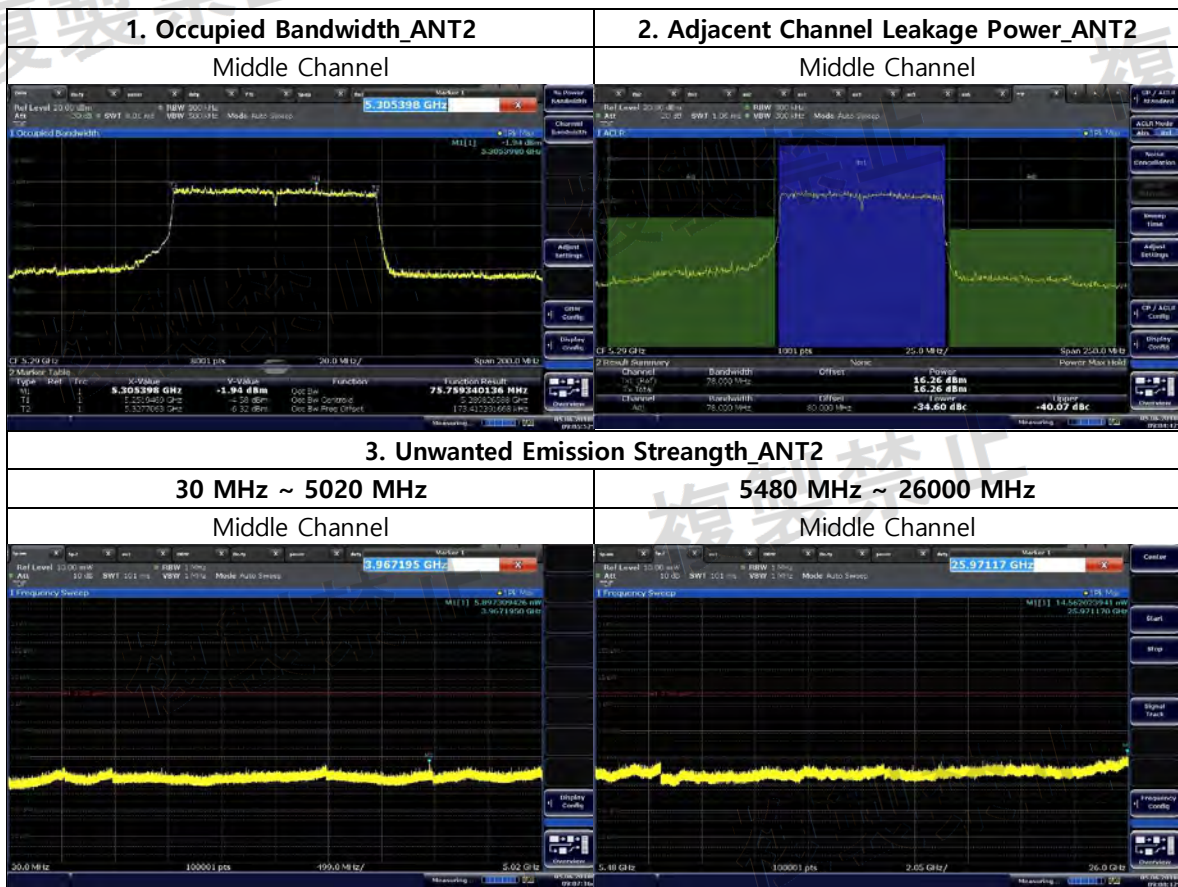
5350 MHz ~ 5376.8 MHz

5376.8 MHz ~ 5480 MHz

Middle Channel

Middle Channel





4. Out-band Leakage Power_ANT2

