

APP A Conducted Power

1. Wi-Fi 2.4GHz

Mode	Date Rate	Ch.#	Freq. (MHz)	Avg. Pwr. (dBm)	Tune-up (dBm)	Duty Cycle (%)
802.11b	1Mbps	1	2412	17.35	17.50	98.96
		6	2437	16.93		
		11	2462	16.93		
802.11g	6Mbps	1	2412	Not Required	17.20	/
		6	2437			
		11	2462			
802.11n (20M)	HT0	1	2412		15.50	
		6	2437			
		11	2462			

2. Wi-Fi 5GHz

Band	Mode Data Rate	BW[MHz]	Channel	Freq[MHz]	Avg Pwr(dBm)	Tune-up (dBm)	Duty Cycle (%)
5.2GHz	802.11a 6Mbps	20M	36	5180	14.54	15.00	93.38
			40	5200	14.54		
			44	5220	14.13		
			48	5240	14.16		
			52	5260	Not Required	14.50	
			56	5280			
			60	5300			
			64	5320			
	802.11n HT0	20M	36	5180		14.50	
			40	5200			
			44	5220			
			48	5240			
			52	5260			
			56	5280			
			60	5300			
			64	5320			
	802.11ac VHT0	20M	36	5180		14.50	
			40	5200			
			44	5220			
			48	5240			
			52	5260			
			56	5280			
			60	5300			
			64	5320			
	802.11n HT0	40M	38	5190	14.50		
			46	5230			
			54	5270			
			62	5310			
802.11ac VHT0	40M	38	5190	14.50			
		46	5230				
		54	5270				
		62	5310				
802.11ac VHT0	80M	42	5210	12.50			
		58	5290				

Band	Mode Data Rate	BW[MHz]	CH	Freq[MHz]	Avg Pwr[dBm]	Tune-up (dBm)	Duty Cycle (%)
5.8G	802.11a 6Mbps	20	149	5745	13.43	14.00	93.38
			153	5765	13.33		
			157	5785	13.62		
			161	5805	13.54		
			165	5825	13.69		
	802.11n20 HT0		149	5745	Not Required	13.50	/
			153	5765			
			157	5785			
			161	5805			
			165	5825			
	802.11ac20 VHT0		149	5745		13.50	
			153	5765			
			157	5785			
			161	5805			
			165	5825			
	802.11n40 HT0	40	151	5755		13.50	
			159	5795		13.50	
	802.11ac40 VHT0		151	5755			
	159		5795				
	802.11ac80 VHT0	80	155	5775		11.50	

3. SRD

SRD 915MHz

Modulation	Bit Rate	Frequency	Conducted Average Power	Tune-up (dBm)
2GFSK	250 kbps	903.975 MHz	Not Required	26.00
		914.775 MHz		
		926.025 MHz		
	150 kbps	904.46 MHz		26.50
		915 MHz		
		925.54 MHz		
	75 kbps	904.2 MHz		26.50
		915 MHz		
		925.8 MHz		
	25 kbps	904.2 MHz	26.08	27.00
		915 MHz	26.03	
		925.8 MHz	26.01	

2.4G

Modulation	Bit Rate	Frequency	Conducted Average Power	Tune-up (dBm)
2GFSK	500 kbps	2403.25 MHz	Not Required	25.00
		2441.75 MHz		
		2475.85MHz		
	400 kbps	2403.075 MHz		25.00
		2441.295 MHz		
		2403.25 MHz		
	250 kbps	2402.95 MHz	24.84	25.50
		2441.75 MHz	25.01	
		2480.55 MHz	24.82	
	150 kbps	2402.82 MHz	Not Required	25.00
		2441.58 MHz		
		2480.68 MHz		
	75 kbps	2404.5865 MHz		25.00
		2441.6335 MHz		
		2478.9135 MHz		

4. Bluetooth

Mode	Test Mode	Ch.#	Freq. (MHz)	Ant 1		Duty Cycle (%)
				Avg. Pwr. (dBm)	Tune-up (dBm)	
Bluetooth	DH5	0	2402	7.94	8.00	76.94
		39	2441	7.01		
		78	2480	7.12		
Bluetooth	3DH5	0	2402	Not Required	4.50	/
		39	2441			
		78	2480			
BLE	1M	0	2402		3.5	/
		19	2440			
		39	2480			

Note: the mode with maximum tune-up is select to perform SAR evaluation to cover the Bluetooth mode.

5. Duty Cycle

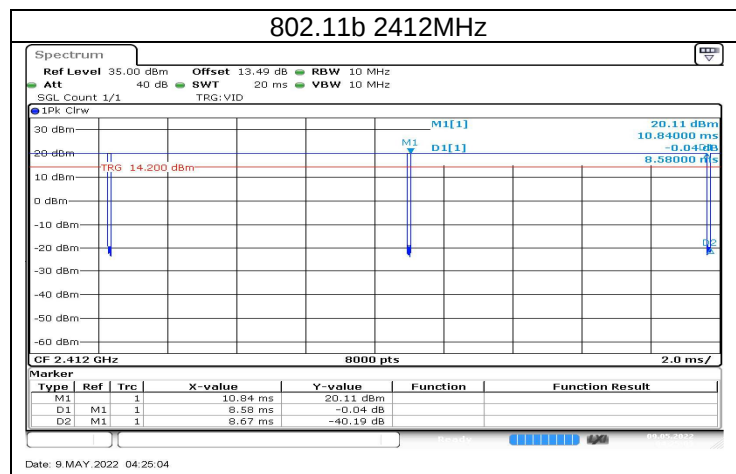
Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11b	8.58	8.67	0.9896	98.96	0.05	0.12	0.01
11a	1.41	1.51	0.9338	93.38	0.30	0.71	1
DH5	2.87	3.73	0.7694	76.94	1.14	0.35	1

Note:

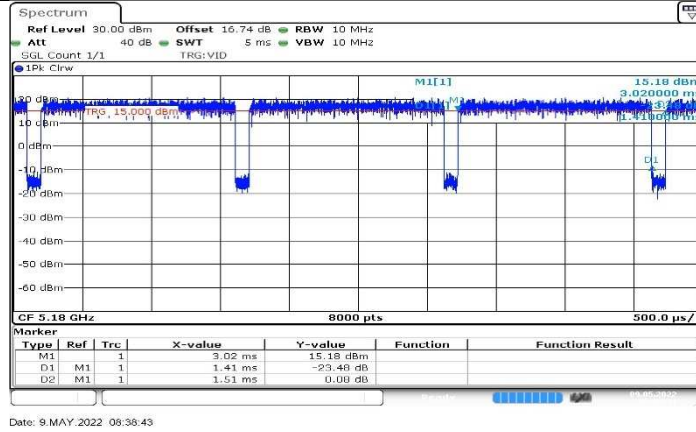
Duty Cycle Correction Factor = $10 \log (1/x)$.

Where: x is Duty Cycle (Linear)

Where: T is On Time



802.11a 5180MHz



BT DH5 2441MHz

