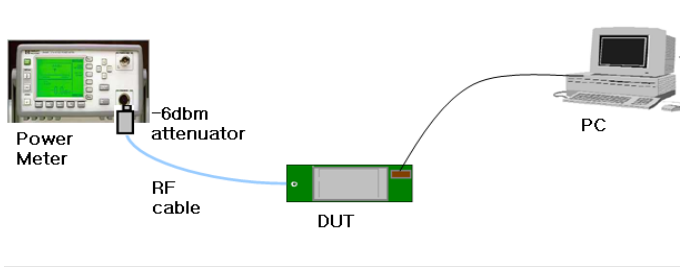


<b>EMW5080V2-P</b>					
<b>Product Name</b>	EMW5080V2-P	<b>Qty</b>	3pcs	<b>Date</b>	2018/5/17
<b>File version</b>	V01	Initial			
<b>Instruments</b>					
<b>Test Equipment</b>	Computer, Power meter, Spectrum,IQview,Power supply,AP				
<b>Test Condition</b>					
<b>Operating Condition</b>	3.3V/25°C				
<b>HW Version</b>	v1.0				
<b>Driver Version</b>	5080-a3.6				
<b>Module Informance</b>	MX1290V2				

### A. Test Setup



### B. Test Data

#### DUT1/25°C

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DUT1	Mode	Data Rate (Mbps)	Specification (dBm)			Max	Min
			Min	Typ	Max		
25°C 3.3V	802.11b	1	15.5dBm	17dBm	18.5dBm	17.3dBm	16.8dBm
		11	15.5dBm	17dBm	18.5dBm	17.3dBm	16.9dBm
	802.11g	6	13.5dBm	15dBm	16.5dBm	14.8dBm	14.3dBm
		54	13.5dBm	15dBm	16.5dBm	14.8dBm	14.5dBm
	802.11n	MCS0	12.5dBm	14dBm	15.5dBm	13.9dBm	13.3dBm
		HT20	12.5dBm	14dBm	15.5dBm	13.9dBm	13.4dBm
	802.11n	MCS0	12.5dBm	14dBm	15.5dBm	13.8dBm	13.5dBm
		HT40	MCS7	12.5dBm	14dBm	15.5dBm	13.8dBm

#### DUT2/25°C

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DUT2	Mode	Data Rate (Mbps)	Specification (dBm)			Max	Min
			Min	Typ	Max		
25°C 3.3V	802.11b	1	15.5dBm	17dBm	18.5dBm	17.1dBm	16.8dBm
		11	15.5dBm	17dBm	18.5dBm	17.1dBm	16.8dBm
	802.11g	6	13.5dBm	15dBm	16.5dBm	14.9dBm	14.5dBm
		54	13.5dBm	15dBm	16.5dBm	14.9dBm	14.4dBm
	802.11n	MCS0	12.5dBm	14dBm	15.5dBm	13.9dBm	13.6dBm
		HT20	MCS7	12.5dBm	14dBm	15.5dBm	13.9dBm
	802.11n	MCS0	12.5dBm	14dBm	15.5dBm	13.9dBm	13.7dBm
		HT40	MCS7	12.5dBm	14dBm	15.5dBm	13.9dBm

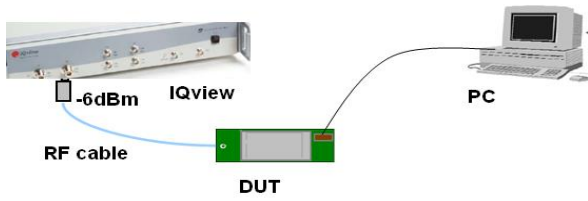
#### DUT3/25°C

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DUT3	Mode	Data Rate (Mbps)	Specification (dBm)			Max	Min
			Min	Typ	Max		
25°C 3.3V	802.11b	1	15.5dBm	17dBm	18.5dBm	17.3dBm	16.8dBm
		11	15.5dBm	17dBm	18.5dBm	17.4dBm	16.9dBm
	802.11g	6	13.5dBm	15dBm	16.5dBm	14.7dBm	14.1dBm
		54	13.5dBm	15dBm	16.5dBm	14.7dBm	14.1dBm
	802.11n	MCS0	12.5dBm	14dBm	15.5dBm	14.5dBm	14.1dBm
		HT20	MCS7	12.5dBm	14dBm	15.5dBm	14.4dBm
	802.11n	MCS0	12.5dBm	14dBm	15.5dBm	14.3dBm	14dBm
		HT40	MCS7	12.5dBm	14dBm	15.5dBm	14.3dBm

A. Summary

B. Test Setup



C. Test Data

DUT1/25°C

EVM

DUT1	Mode	Data Rate (Mbps)	Specification (dB)			Max	Min
			Min	Typ	Max		
25°C 3.3V	802.11b	1	-	-	-13dB	-21.6dB	-22.5dB
		11	-	-	-13dB	-20.8dB	-21.3dB
	802.11g	6	-	-	-28dB	-33.6dB	-35.5dB
		54	-	-	-28dB	-34.2dB	-35.4dB
	802.11n	MCS0	-	-	-30dB	-36dB	-37.7dB
		HT20	MCS7	-	-	-30dB	-36.8dB
	802.11n	MCS0	-	-	-30dB	-36.1dB	-37.5dB
			HT40	MCS7	-	-	-30dB

DUT2/25°C

EVM

DUT2	Mode	Data Rate (Mbps)	Specification (dB)			Max	Min
			Min	Typ	Max		
25°C 3.3V	802.11b	1	-	-	-13dB	-21.8dB	-22.1dB
		11	-	-	-13dB	-20.9dB	-21.3dB
	802.11g	6	-	-	-28dB	-35.1dB	-36.2dB
		54	-	-	-28dB	-34.8dB	-36.2dB
	802.11n	MCS0	-	-	-30dB	-36.2dB	-36.9dB
		HT20	MCS7	-	-	-30dB	-36.6dB
	802.11n	MCS0	-	-	-30dB	-36.3dB	-36.9dB
			HT40	MCS7	-	-	-30dB

DUT3/25°C

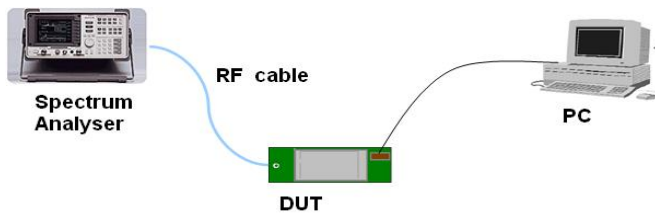
EVM

DUT3	Mode	Data Rate (Mbps)	Specification (dB)			Max	Min
			Min	Typ	Max		
25°C 3.3V	802.11b	1	-	-	-13dB	-21.7dB	-22.1dB
		11	-	-	-13dB	-21.2dB	-22.2dB
	802.11g	6	-	-	-28dB	-35.2dB	-35.7dB
		54	-	-	-28dB	-35.2dB	-35.8dB
	802.11n	MCS0	-	-	-30dB	-36.1dB	-36.6dB
		HT20	MCS7	-	-	-30dB	-36.2dB
	802.11n	MCS0	-	-	-30dB	-36.4dB	-36.9dB
			HT40	MCS7	-	-	-30dB



### A. Summary

Based on the test data, frequency error is about from -8ppm to 2ppm



### C. Test Data

#### DUT1/25°C

DUT1	Mode	Data Rate (Mbps)	Specification ppm)			Max	Min
			Min	Typ	Max		
25°C 3.3V	802.11b	1M	-10	-	10	3ppm	2.3ppm
		11M	-10	-	10	2.8ppm	1.9ppm
	802.11g	6M	-10	-	10	2.7ppm	1.9ppm
		54M	-10	-	10	2.5ppm	1.5ppm
	802.11n HT20	MCS0	-10	-	10	2.6ppm	1.5ppm
		MCS7	-10	-	10	2.8ppm	2.1ppm
	802.11n HT40	MCS0	-10	-	10	2.9ppm	2.1ppm
		MCS7	-10	-	10	2.9ppm	2ppm

#### DUT2/25°C

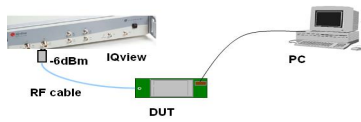
DUT2	Mode	Data Rate (Mbps)	Specification ppm)			Max	Min
			Min	Typ	Max		
25°C 3.3V	802.11b	1M	-10	-	10	2.4ppm	2.3ppm
		11M	-10	-	10	2.4ppm	2.3ppm
	802.11g	6M	-10	-	10	2.8ppm	2.6ppm
		54M	-10	-	10	2.9ppm	2.6ppm
	802.11n HT20	MCS0	-10	-	10	2.4ppm	2.3ppm
		MCS7	-10	-	10	2.4ppm	2.3ppm
	802.11n HT40	MCS0	-10	-	10	2.5ppm	2.3ppm
		MCS7	-10	-	10	2.4ppm	2.3ppm

#### DUT3/25°C

DUT3	Mode	Data Rate (Mbps)	Specification ppm)			Max	Min
			Min	Typ	Max		
25°C 3.3V	802.11b	1M	-10	-	10	-3.5ppm	-3.9ppm
		11M	-10	-	10	-3.4ppm	-3.8ppm
	802.11g	6M	-10	-	10	-2.7ppm	-3.2ppm
		54M	-10	-	10	-2.3ppm	-3ppm
	802.11n HT20	MCS0	-10	-	10	-3.2ppm	-3.9ppm
		MCS7	-10	-	10	-3.2ppm	-3.7ppm
	802.11n HT40	MCS0	-10	-	10	-3.3ppm	-3.8ppm
		MCS7	-10	-	10	-3.2ppm	-3.6ppm

A. Summary

B. Test Setup



Specification (dBm)

C. Test data

DUT1/25°C

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DUT1		Data Rate (Mbps)	IEEE Specification (dBm)	ANT0													
				CH1 (2412MHz)	CH2 (2417MHz)	CH3 (2422MHz)	CH4 (2427MHz)	CH5 (2432MHz)	CH6 (2437MHz)	CH7 (2442MHz)	CH8 (2447MHz)	CH9 (2452MHz)	CH10 (2457MHz)	CH11 (2462MHz)	CH12 (2467MHz)	CH13 (2472MHz)	
3.3V 25°C	b	1	-86dBm	-99dBm	-100dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm
		11	-83dBm	-89dBm	-89dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm	-99dBm
	g	6	-82dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm
		54	-65dBm	-78dBm	-78dBm	-78dBm	-78dBm	-79dBm	-78dBm	-78dBm	-79dBm	-79dBm	-79dBm	-79dBm	-79dBm	-79dBm	-78dBm
	n20	HT20 MCS0	-82dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm	-92dBm
		HT20 MCS7	-64dBm	-74dBm	-74dBm	-75dBm	-75dBm	-75dBm	-75dBm	-75dBm	-75dBm	-75dBm	-75dBm	-75dBm	-74dBm	-75dBm	-
	n40	HT40 MCS0	-79dBm	-	-	-89dBm	-89dBm	-89dBm	-89dBm	-89dBm	-89dBm	-89dBm	-89dBm	-89dBm	-89dBm	-	-
		HT40 MCS7	-61dBm	-	-	-72dBm	-72dBm	-72dBm	-72dBm	-72dBm	-72dBm	-72dBm	-72dBm	-72dBm	-71dBm	-	-

DUT2/25°C

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DUT2		Data Rate (Mbps)	IEEE Specification (dBm)	ANT0													
				CH1 (2412MHz)	CH2 (2417MHz)	CH3 (2422MHz)	CH4 (2427MHz)	CH5 (2432MHz)	CH6 (2437MHz)	CH7 (2442MHz)	CH8 (2447MHz)	CH9 (2452MHz)	CH10 (2457MHz)	CH11 (2462MHz)	CH12 (2467MHz)	CH13 (2472MHz)	
3.3V 25°C	b	1	-86dBm	-99	-99	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-99
		11	-83dBm	-88	-89	-89	-89	-90	-90	-89	-89	-90	-90	-90	-90	-90	-90
	g	6	-82dBm	-92	-93	-92	-92	-92	-92	-93	-93	-92	-92	-92	-92	-92	-92
		54	-65dBm	-78	-78	-78	-78	-78	-78	-78	-78	-79	-79	-79	-79	-79	-78
	n20	HT20 MCS0	-82dBm	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92
		HT20 MCS7	-64dBm	-74	-74	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75
	n40	HT40 MCS0	-79dBm	-	-	-89	-89	-89	-89	-89	-89	-89	-89	-89	-89	-	-
		HT40 MCS7	-61dBm	-	-	-72	-72	-72	-72	-72	-72	-72	-72	-72	-71	-	-

DUT3/25°C

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DUT3		Data Rate (Mbps)	IEEE Specification (dBm)	ANT0													
				CH1 (2412MHz)	CH2 (2417MHz)	CH3 (2422MHz)	CH4 (2427MHz)	CH5 (2432MHz)	CH6 (2437MHz)	CH7 (2442MHz)	CH8 (2447MHz)	CH9 (2452MHz)	CH10 (2457MHz)	CH11 (2462MHz)	CH12 (2467MHz)	CH13 (2472MHz)	
3.3V 25°C	b	1	-86dBm	-99	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-100	-99	-99
		11	-83dBm	-89	-89	-89	-89	-90	-90	-89	-89	-89	-89	-89	-89	-89	-89
	g	6	-82dBm	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92
		54	-65dBm	-77	-77	-77	-77	-77	-77	-77	-76	-78	-78	-78	-77	-77	-77
	n20	HT20 MCS0	-82dBm	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92	-92
		HT20 MCS7	-64dBm	-73	-73	-74	-74	-73	-73	-73	-73	-73	-74	-74	-74	-74	-73
	n40	HT40 MCS0	-79dBm	-	-	-89	-89	-89	-89	-89	-89	-89	-89	-89	-89	-	-
		HT40 MCS7	-61dBm	-	-	-71	-71	-71	-71	-71	-71	-71	-70	-70	-71	-	-