

## 7 Band edge test

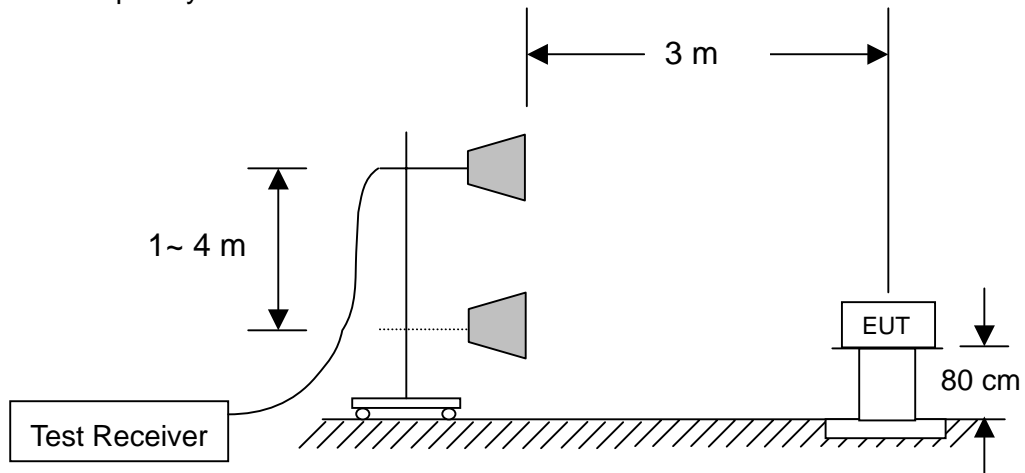
### 7.1 Limit

According to FCC Part 15.205 requirement :

Any radiated emission in the restricted bands shall be complied with the limits in 15.209.

### 7.2 Configuration of Measurement

Measurement Frequency above 1GHz



### 7.3 Test Procedure

Set RBW =1M, VBW= RBW for peak, and VBW=10Hz for average.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to present worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

### 7.4 Test Result

**PASS.**

The final test data is shown on as following pages.

## Band edge test

### Single Tx

802.11a Chain 0					
CH	Restricted Band (MHz)	Detector Mode	Maximum Level (dB $\mu$ V/m)	Limit (dBm)	Margin (dB)
36	4500~5150	PK	59.70	74	-14.30
		AV	44.60	54	-9.40
64	5350~5460	PK	59.82	74	-14.18
		AV	45.23	54	-8.77

802.11a Chain 2					
CH	Restricted Band (MHz)	Detector Mode	Maximum Level (dB $\mu$ V/m)	Limit (dBm)	Margin (dB)
36	4500~5150	PK	63.74	74	-10.26
		AV	44.90	54	-9.10
64	5350~5460	PK	61.84	74	-12.16
		AV	45.06	54	-8.94

802.11n (HT20) Chain 0					
CH	Restricted Band (MHz)	Detector Mode	Maximum Level (dB $\mu$ V/m)	Limit (dBm)	Margin (dB)
36	4500~5150	PK	58.91	74	-15.09
		AV	44.12	54	-9.88
64	5350~5460	PK	59.28	74	-14.72
		AV	44.75	54	-9.25

802.11n (HT20) Chain 2					
CH	Restricted Band (MHz)	Detector Mode	Maximum Level (dB $\mu$ V/m)	Limit (dBm)	Margin (dB)
36	4500~5150	PK	61.29	74	-12.71
		AV	45.21	54	-8.79
64	5350~5460	PK	59.89	74	-14.11
		AV	45.04	54	-8.96

<b>802.11n (HT40) Chain 0</b>					
<b>CH</b>	<b>Restricted Band (MHz)</b>	<b>Detector Mode</b>	<b>Maximum Level (dB <math>\mu</math> V/m)</b>	<b>Limit (dBm)</b>	<b>Margin (dB)</b>
38	4500~5150	PK	62.24	74	-11.76
		AV	46.57	54	-7.43
62	5350~5460	PK	63.72	74	-10.28
		AV	48.51	54	-5.49

<b>802.11n (HT40) Chain 2</b>					
<b>CH</b>	<b>Restricted Band (MHz)</b>	<b>Detector Mode</b>	<b>Maximum Level (dB <math>\mu</math> V/m)</b>	<b>Limit (dBm)</b>	<b>Margin (dB)</b>
38	4500~5150	PK	69.99	74	-4.01
		AV	47.76	54	-6.24
62	5350~5460	PK	67.35	74	-6.65
		AV	52.07	54	-1.93

## Band edge test

### Dual Tx

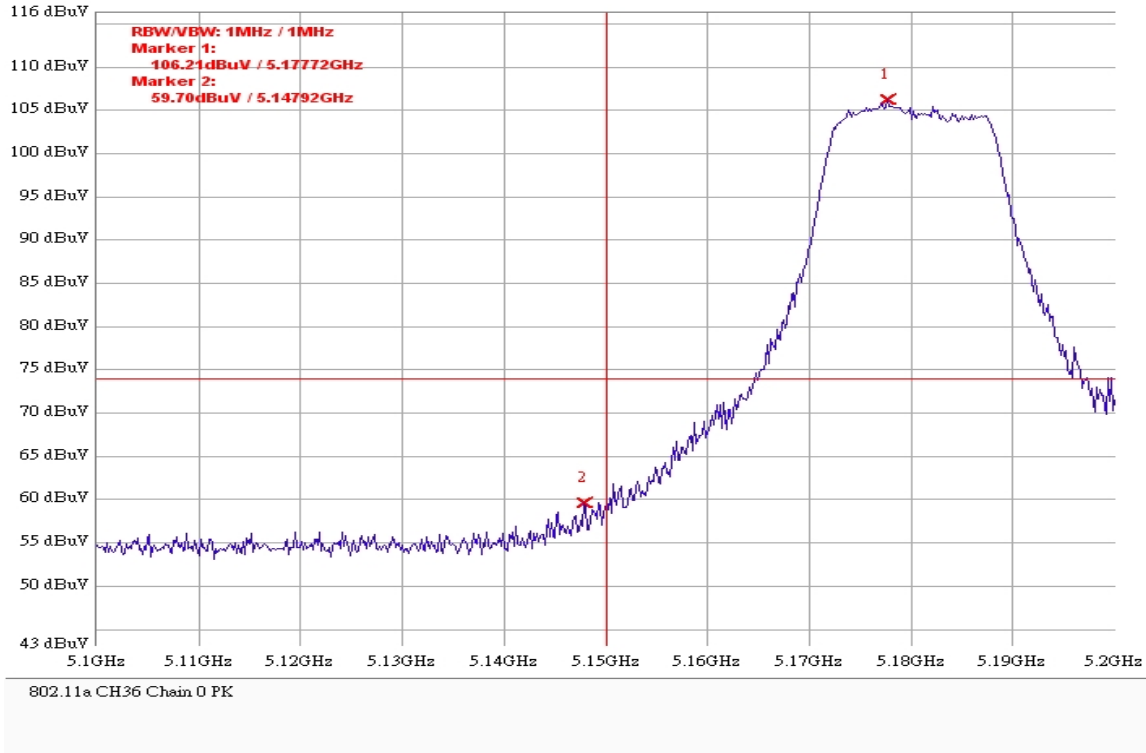
<b>802.11n (HT20)</b>					
<b>CH</b>	<b>Restricted Band (MHz)</b>	<b>Detector Mode</b>	<b>Maximum Level (dB <math>\mu</math> V/m)</b>	<b>Limit (dBm)</b>	<b>Margin (dB)</b>
36	4500~5150	PK	58.65	74	-15.35
		AV	44.92	54	-9.08
64	5350~5460	PK	60.30	74	-13.70
		AV	45.19	54	-8.81

<b>802.11n (HT40)</b>					
<b>CH</b>	<b>Restricted Band (MHz)</b>	<b>Detector Mode</b>	<b>Maximum Level (dB <math>\mu</math> V/m)</b>	<b>Limit (dBm)</b>	<b>Margin (dB)</b>
36	4500~5150	PK	67.96	74	-6.04
		AV	49.46	54	-4.54
62	5350~5460	PK	70.33	74	-3.67
		AV	49.43	54	-4.57

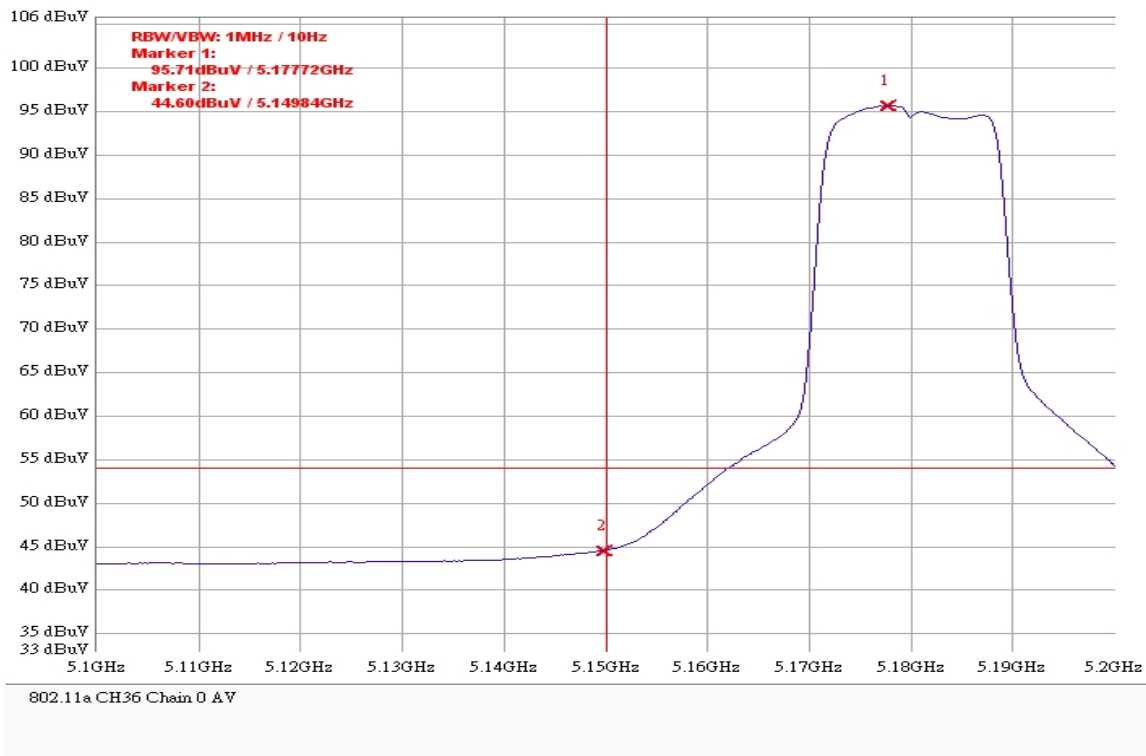
# Band edge test

## Single Tx

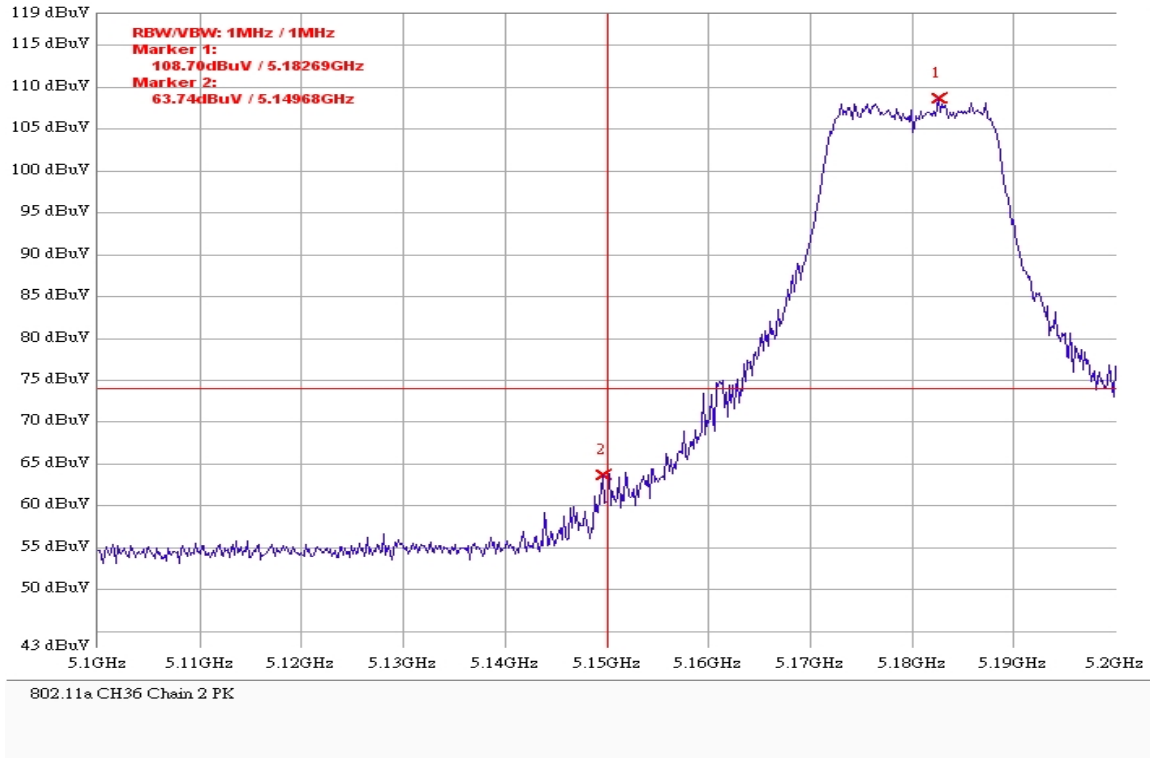
### 802.11 a CH36 5180MHz PK Chain 0



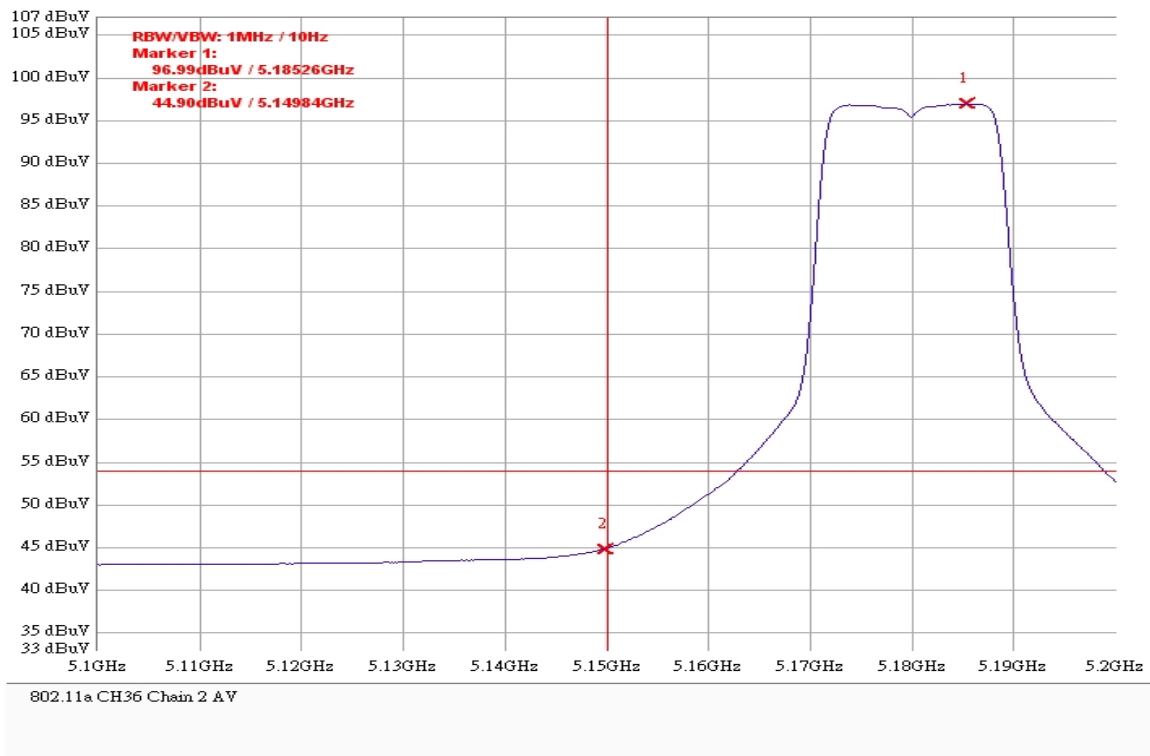
### 802.11 a CH36 5180MHz AV Chain 0



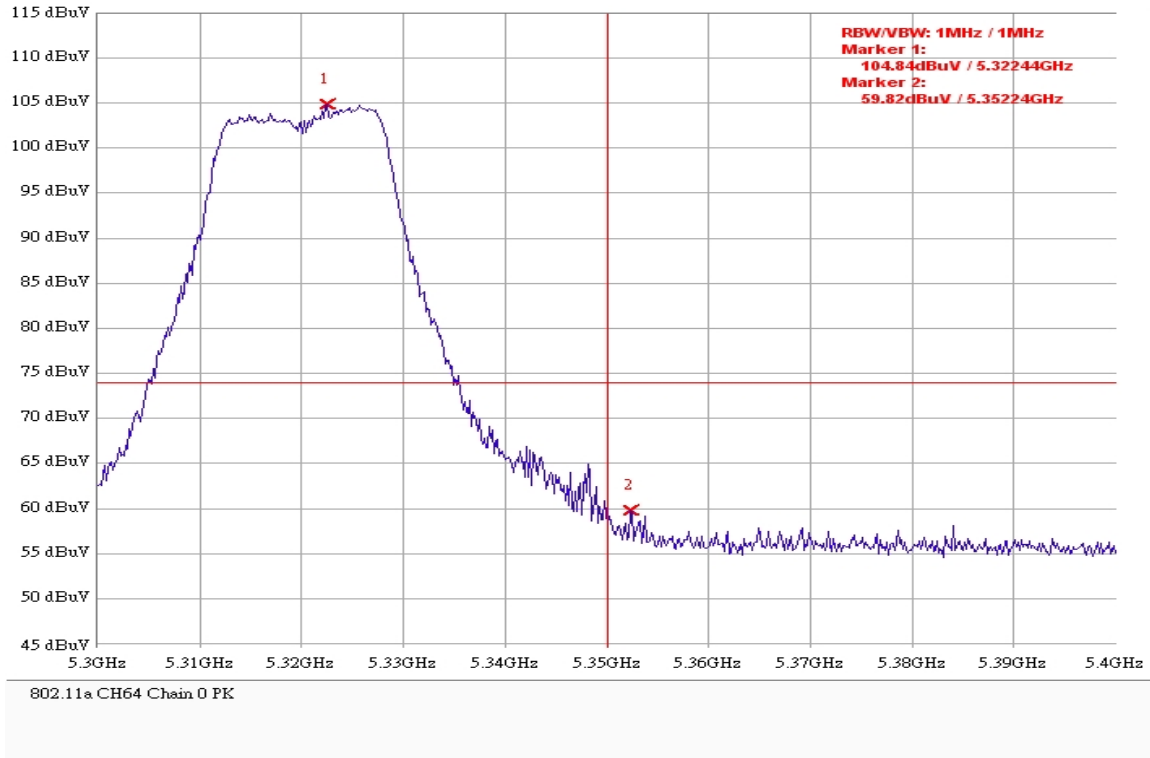
### 802.11 a CH36 5180MHz PK Chain 2



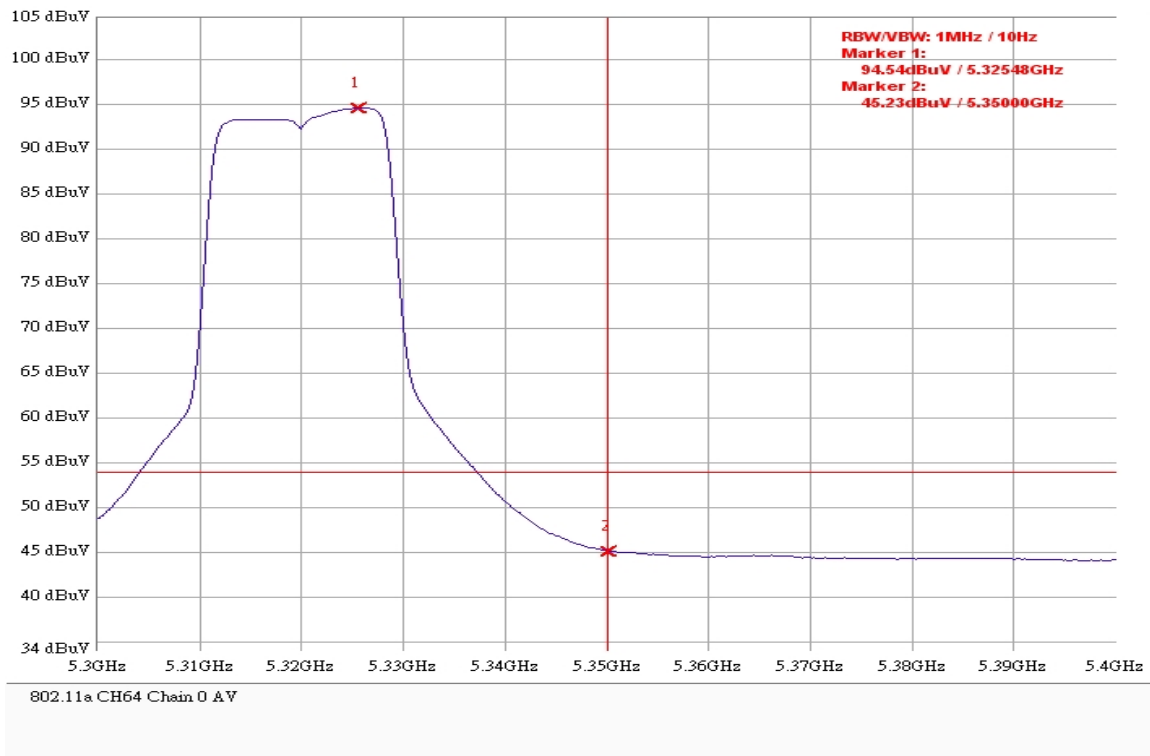
### 802.11 a CH36 5180MHz AV Chain 2



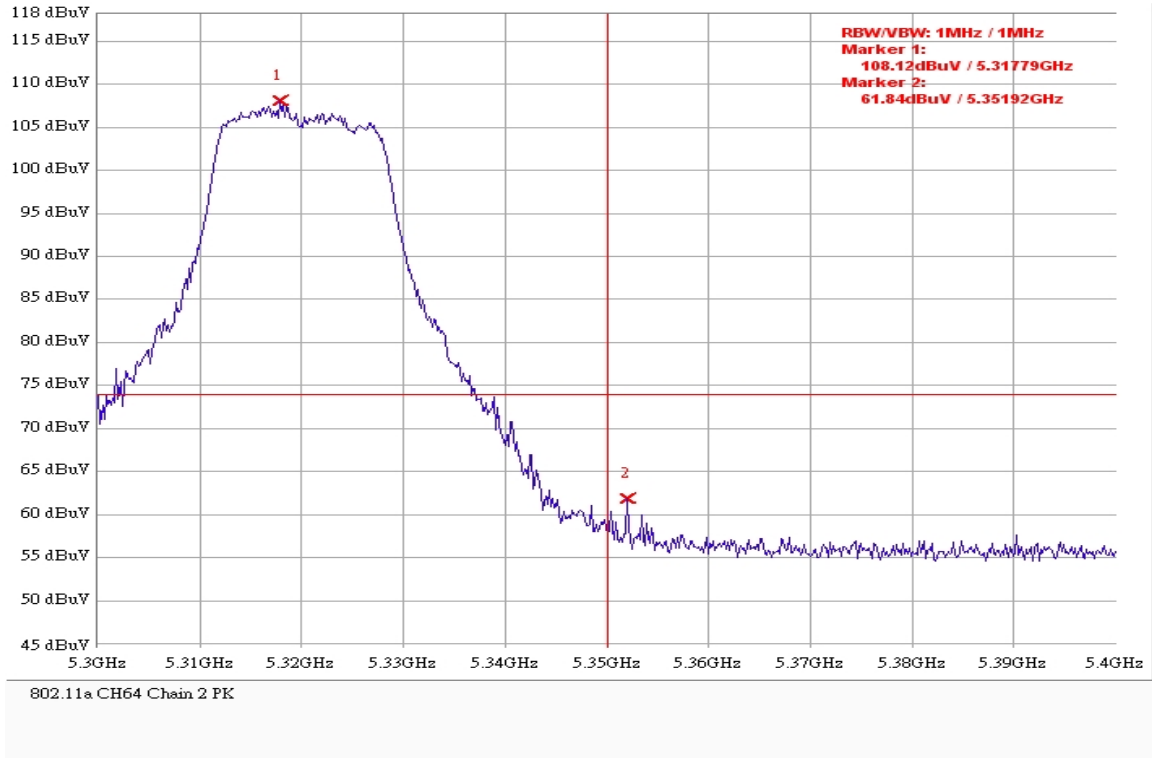
### 802.11 a CH64 5320MHz PK Chain 0



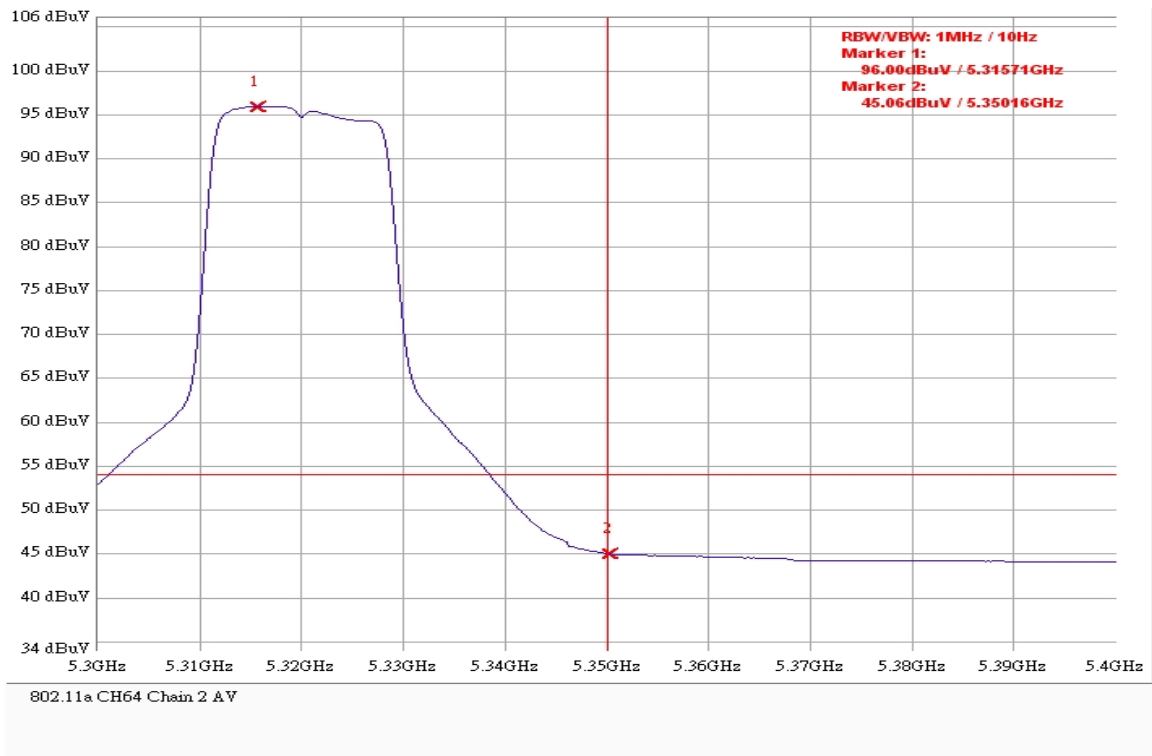
### 802.11 a CH64 5320MHz AV Chain 0



### 802.11 a CH64 5320MHz PK Chain 2

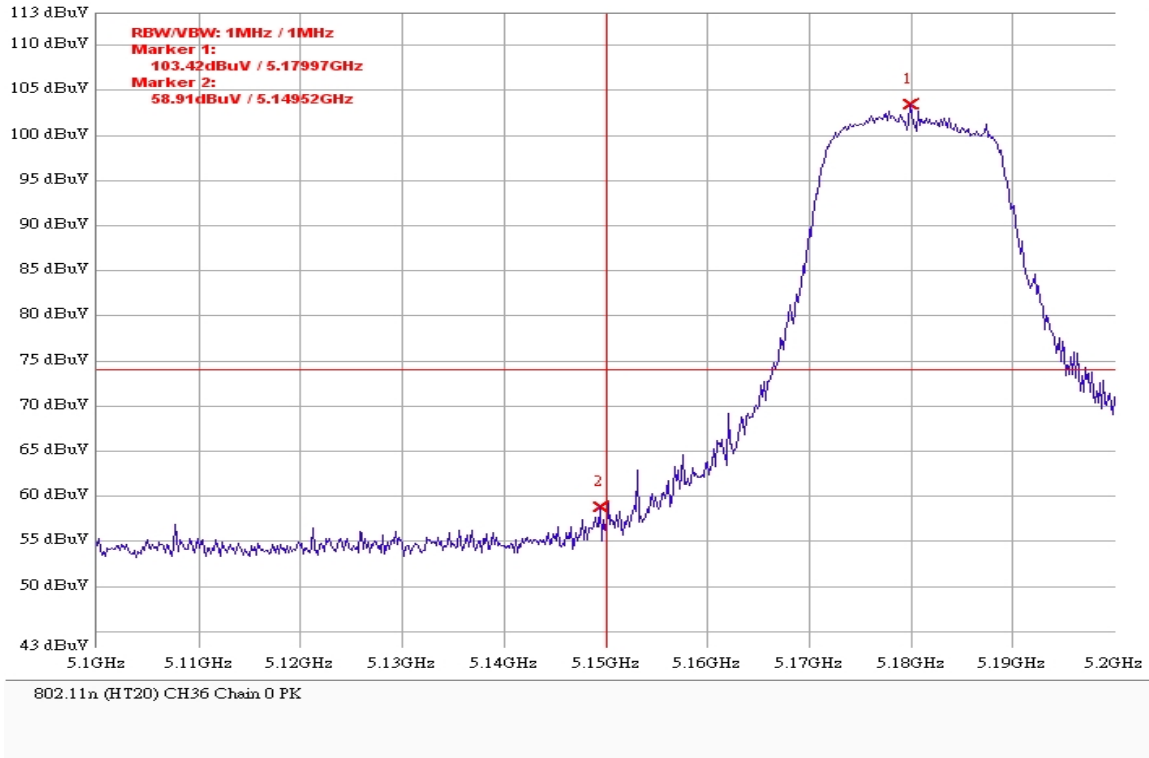


### 802.11 a CH64 5320MHz AV Chain 2

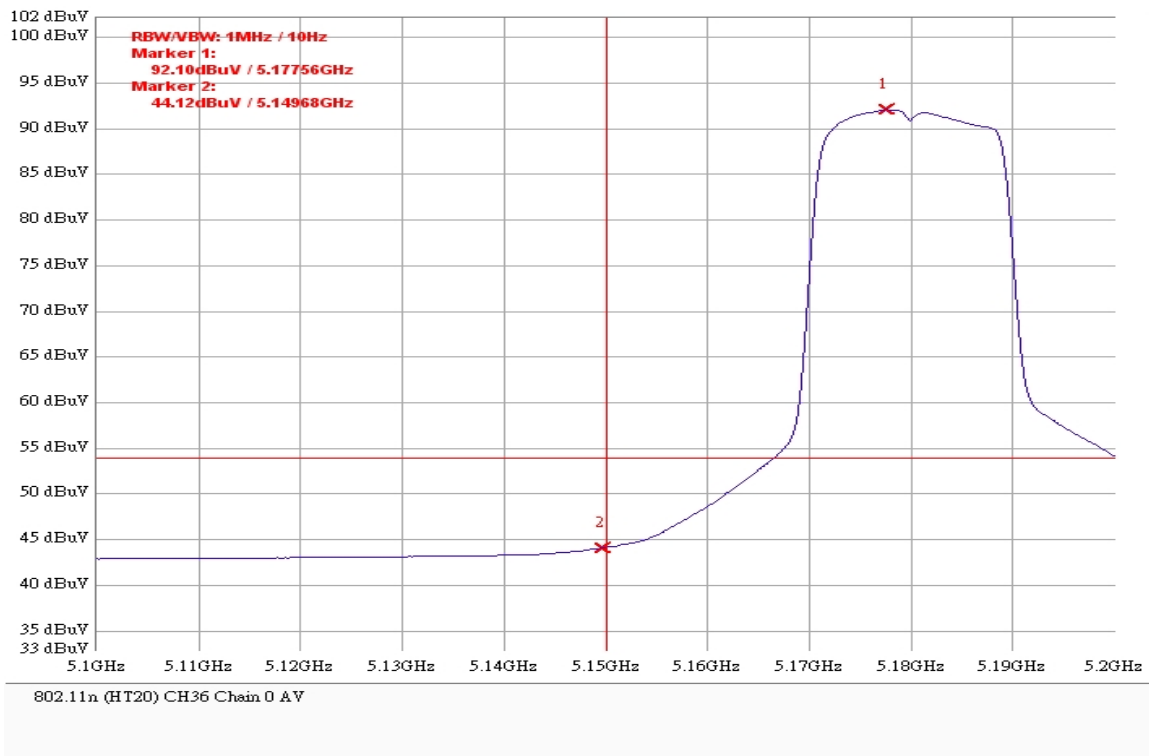




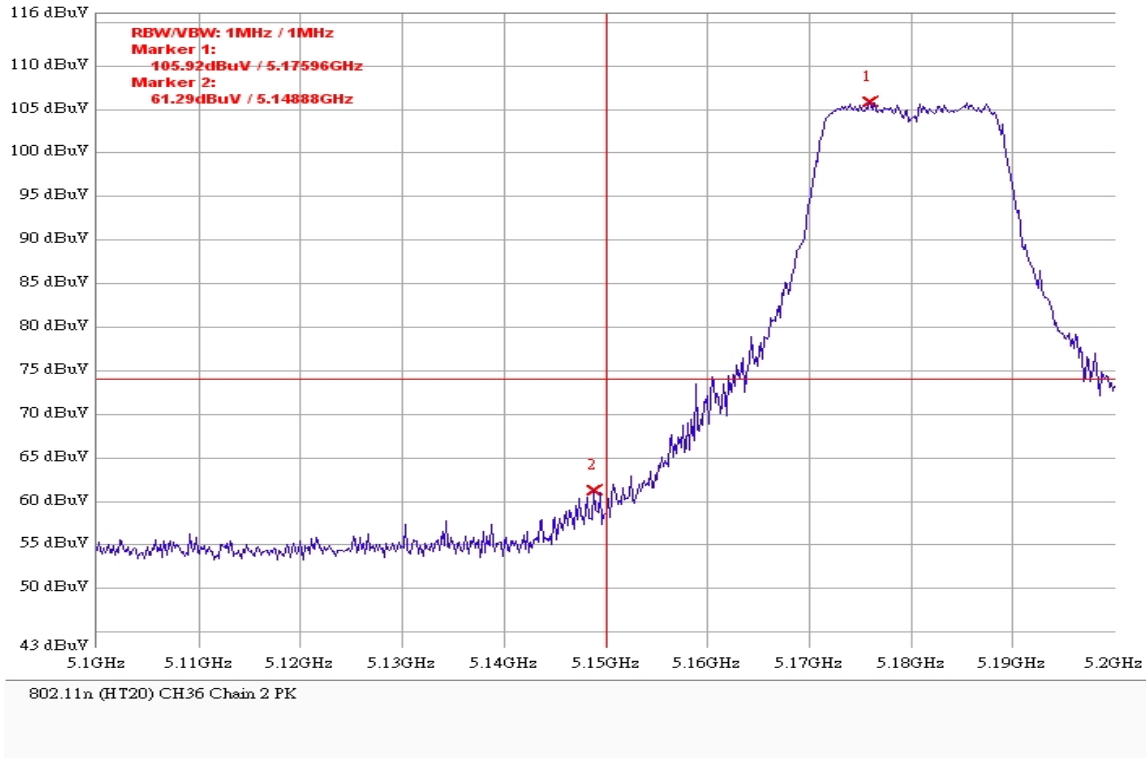
### 802.11 n (HT20) CH36 5180MHz PK Chain 0



### 802.11 n (HT20) CH36 5180MHz AV Chain 0



### 802.11 n (HT20) CH36 5180MHz PK Chain 2



### 802.11 n (HT20) CH36 5180MHz AV Chain 2

