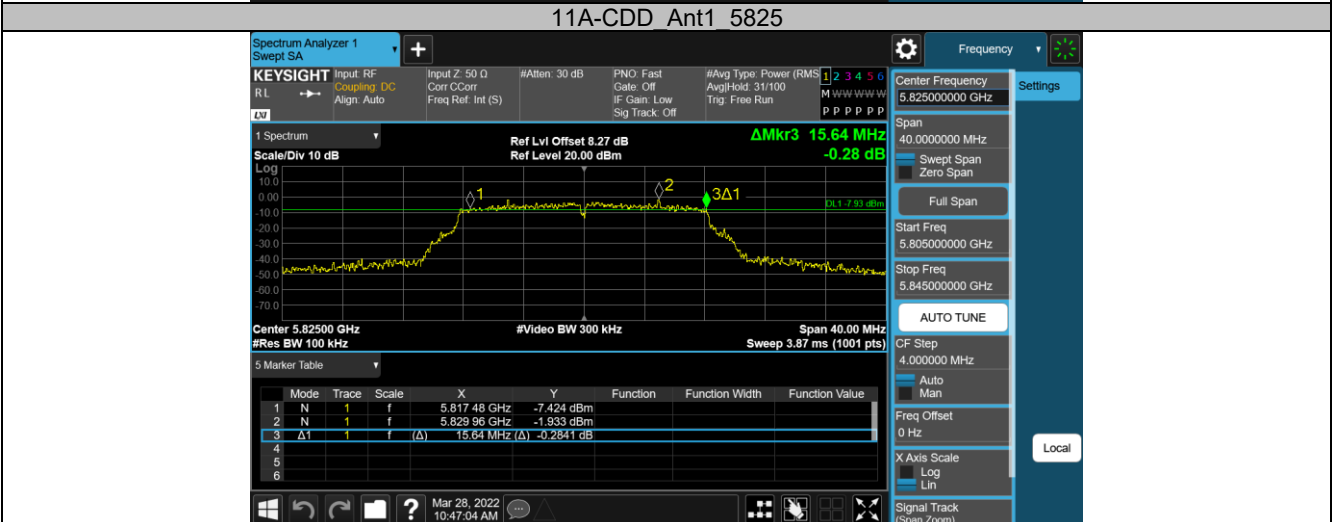
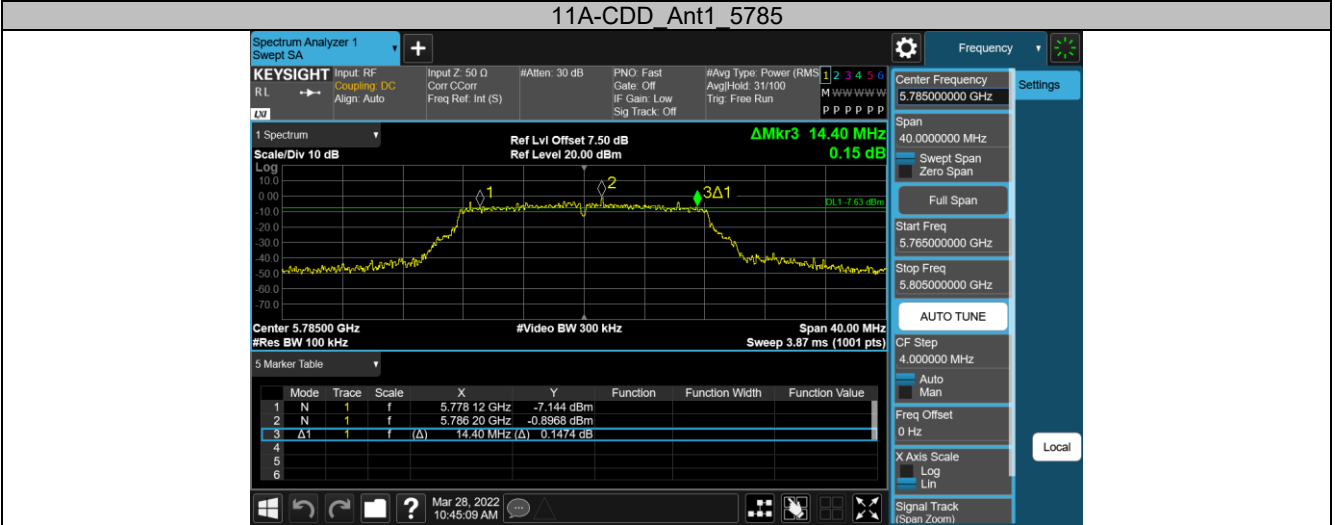
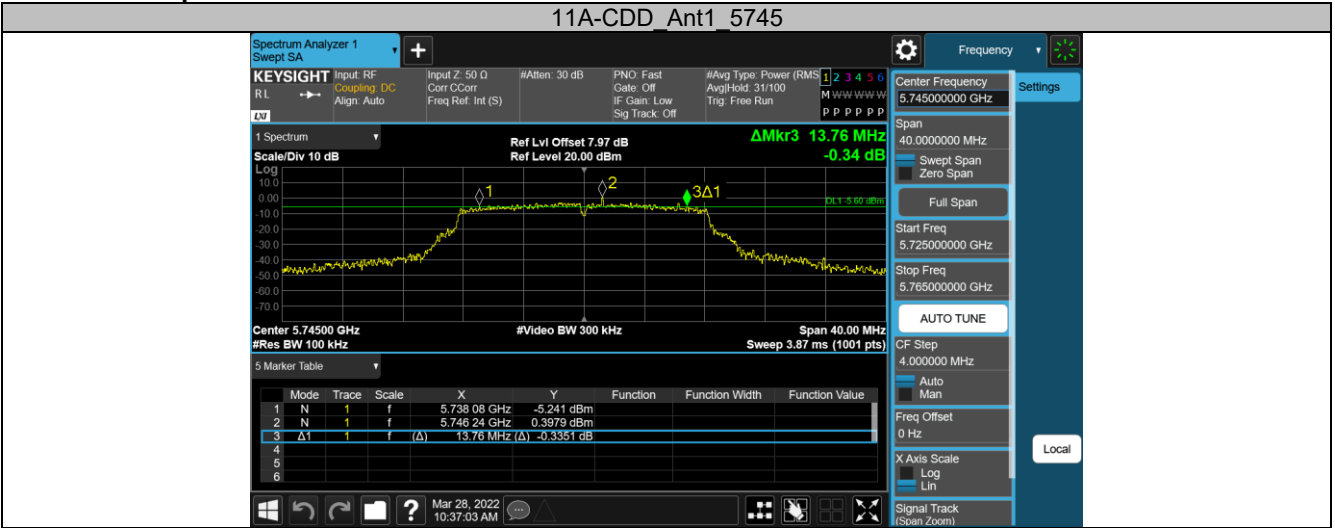


2.2 Test Graphs



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11N20MIMO Ant1 5745



11N20MIMO Ant1 5785



11N20MIMO Ant1 5825



11N40MIMO Ant1 5755



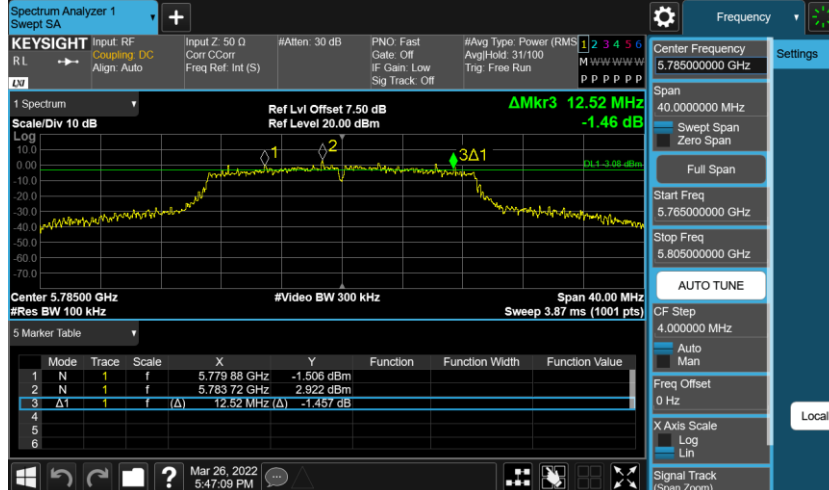
11N40MIMO Ant1 5795



11AC20MIMO Ant1 5745



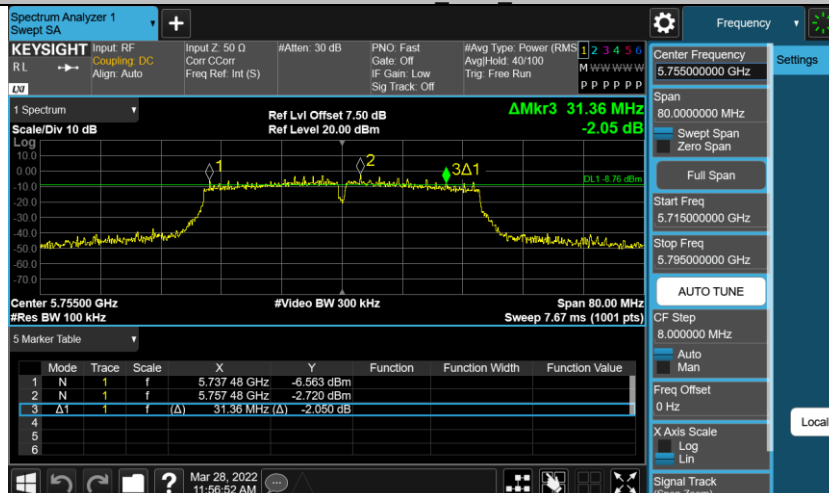
11AC20MIMO Ant1 5785



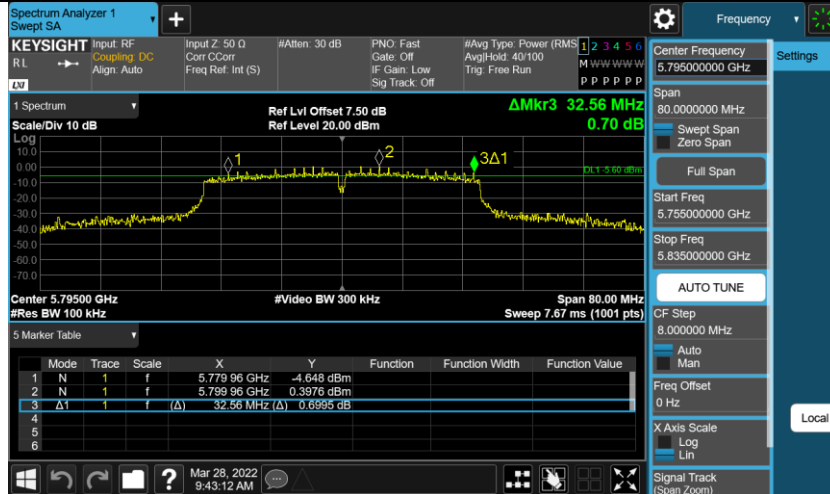
11AC20MIMO Ant1 5825



11AC40MIMO Ant1 5755



11AC40MIMO Ant1 5795



11AC80MIMO Ant1 5775



### 3. Maximum output power

#### 3.1 Test Data

Note: 23.98dBm=250mW, 30dBm=1000mW.

Channel (mode)	Channel Frequency (MHz)	RF Output Power (dBm)	Limit (dBm)	Result
36 (802.11a)	5180	16.41	23.98	Pass
40 (802.11a)	5200	16.25	23.98	Pass
48 (802.11a)	5240	16.30	23.98	Pass
52 (802.11a)	5260	16.74	23.98	Pass
56 (802.11a)	5280	16.78	23.98	Pass
64 (802.11a)	5320	16.78	23.98	Pass
100 (802.11a)	5500	14.99	23.98	Pass
116 (802.11a)	5580	16.57	23.98	Pass
140 (802.11a)	5700	13.92	23.98	Pass
144 (802.11a)	5720	12.6(U-NII-2C)	23.98	Pass
		6.7(U-NII-3)	30	Pass
149 (802.11a)	5745	16.33	30	Pass
157 (802.11a)	5785	16.28	30	Pass
165 (802.11a)	5825	16.40	30	Pass

Channel (mode)	Channel Frequency (MHz)	RF Output Power (dBm)	FCC Limit (dBm)	Result
36 (802.11n-HT20)	5180	18.04	23.98	Pass
40 (802.11n-HT20)	5200	18.84	23.98	Pass
48 (802.11n-HT20)	5240	19.10	23.98	Pass
52 (802.11n-HT20)	5260	19.46	23.98	Pass
56 (802.11n-HT20)	5280	19.45	23.98	Pass
64 (802.11n-HT20)	5320	19.45	23.98	Pass
100 (802.11n-HT20)	5500	17.24	23.98	Pass
116 (802.11n-HT20)	5580	19.19	23.98	Pass
140 (802.11n-HT20)	5700	15.39	23.98	Pass
144 (802.11n-HT20)	5720	14.91(U-NII-2C)	23.98	Pass
144 (802.11n-HT20)	5720	9.1(U-NII-3)	30	Pass
149 (802.11n-HT20)	5745	18.73	30	Pass
157 (802.11n-HT20)	5785	18.64	30	Pass
165 (802.11n-HT20)	5825	18.64	30	Pass

Channel (mode)	Channel Frequency (MHz)	RF Output Power (dBm)	FCC Limit (dBm)	Result
36 (802.11ac20)	5180	17.93	23.98	Pass
40 (802.11ac20)	5200	18.90	23.98	Pass
48 (802.11ac20)	5240	19.39	23.98	Pass
52 (802.11ac20)	5260	19.45	23.98	Pass
56 (802.11ac20)	5280	19.37	23.98	Pass
64 (802.11ac20)	5320	19.28	23.98	Pass
100 (802.11ac20)	5500	17.21	23.98	Pass
116 (802.11ac20)	5580	18.78	23.98	Pass
140 (802.11ac20)	5700	15.33	23.98	Pass
144 (802.11ac20)	5720	14.62(U-NII-2C)	23.98	Pass
144 (802.11ac20)	5720	9.7(U-NII-3)	30	Pass
149 (802.11ac20)	5745	18.79	30	Pass
157 (802.11ac20)	5785	18.70	30	Pass
165 (802.11ac20)	5825	19.56	30	Pass

Channel (mode)	Channel Frequency (MHz)	RF Output Power (dBm)	FCC Limit (dBm)	Result
38 (802.11n-HT40)	5190	17.16	23.98	Pass
46 (802.11n-HT40)	5230	19.22	23.98	Pass
54 (802.11n-HT40)	5270	19.71	23.98	Pass
62 (802.11n-HT40)	5310	17.57	23.98	Pass
102 (802.11n-HT40)	5510	16.97	23.98	Pass
110 (802.11n-HT40)	5550	19.57	23.98	Pass
134 (802.11n-HT40)	5670	16.13	23.98	Pass
142 (802.11n-HT40)	5710	15.4(U-NII-2C)	23.98	Pass
142 (802.11n-HT40)	5710	9.8(U-NII-3)	30	Pass
151 (802.11n-HT40)	5755	18.83	30	Pass
159 (802.11n-HT40)	5795	18.90	30	Pass

Channel (mode)	Channel Frequency (MHz)	RF Output Power (dBm)	FCC Limit (dBm)	Result
38 (802.11ac40)	5190	17.11	23.98	Pass
46 (802.11ac40)	5230	19.97	23.98	Pass
54 (802.11ac40)	5270	19.94	23.98	Pass
62 (802.11ac40)	5310	17.55	23.98	Pass
102 (802.11ac40)	5510	16.92	23.98	Pass
110 (802.11ac40)	5550	19.39	23.98	Pass
134 (802.11ac40)	5670	16.07	23.98	Pass
142 (802.11ac40)	5710	15.1(U-NII-2C)	23.98	Pass
142 (802.11ac40)	5710	9.6(U-NII-3)	30	Pass
151 (802.11ac40)	5755	19.40	30	Pass
159 (802.11ac40)	5795	19.87	30	Pass

Channel (mode)	Channel Frequency (MHz)	RF Output Power (dBm)	FCC Limit (dBm)	Result
42 (802.11ac80)	5210	16.12	23.98	Pass
58 (802.11ac80)	5290	16.67	23.98	Pass
106 (802.11ac80)	5530	15.86	23.98	Pass
122 (802.11ac80)	5610	17.53	23.98	Pass
138 (802.11ac80)	5690	15.92 (U-NII-2C)	23.98	Pass
138 (802.11ac80)	5690	10.3(U-NII-3)	30	Pass
155 (802.11ac80)	5775	17.11	30	Pass

**Note:**

1. As fro 802.11a, only SISO supported. Both RF ports tested, only the higher power data recorded above.
2. As fro 802.11n/ac, Both MIMO and SISO supported. Both MIMO and SISO mode tested, only the higher power mode MIMO recorded above.



## 4. Power Spectral Density

### 4.1 Test Datas

#### Bands U-NII-1, U-NII-2A and U-NII-2C

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict	
11A	Ant1	5180	5.48	≤11.00	PASS	
	Ant2	5180	4.6	≤11.00	PASS	
	Ant1	5200	4.84	≤11.00	PASS	
	Ant2	5200	3.9	≤11.00	PASS	
	Ant1	5240	5.03	≤11.00	PASS	
	Ant2	5240	3.99	≤11.00	PASS	
	Ant1	5260	4.5	≤11.00	PASS	
	Ant2	5260	4.27	≤11.00	PASS	
	Ant1	5280	6.51	≤11.00	PASS	
	Ant2	5280	5.35	≤11.00	PASS	
	Ant1	5320	6.06	≤11.00	PASS	
	Ant2	5320	5.1	≤11.00	PASS	
	Ant1	5500	3.13	≤11.00	PASS	
	Ant2	5500	1.57	≤11.00	PASS	
	Ant1	5580	4.98	≤11.00	PASS	
	Ant2	5580	3.41	≤11.00	PASS	
11N20MIMO	Ant1	5700	2.65	≤11.00	PASS	
	Ant2	5700	1.04	≤11.00	PASS	
	Ant1	5180	5.65	≤11.00	PASS	
	Ant2	5180	4.85	≤11.00	PASS	
	total	5180	8.28	≤9.60	PASS	
	Ant1	5200	5.93	≤11.00	PASS	
	Ant2	5200	5.27	≤11.00	PASS	
	total	5200	8.62	≤9.60	PASS	
	Ant1	5240	6.02	≤11.00	PASS	
	Ant2	5240	4.82	≤11.00	PASS	
	total	5240	8.47	≤9.60	PASS	
	Ant1	5260	5.52	≤11.00	PASS	
	Ant2	5260	5.03	≤11.00	PASS	
	total	5260	8.29	≤9.60	PASS	
	Ant1	5280	5.79	≤11.00	PASS	
	Ant2	5280	5.22	≤11.00	PASS	
	total	5280	8.52	≤9.60	PASS	
	Ant1	5320	6.16	≤11.00	PASS	
	Ant2	5320	5.14	≤11.00	PASS	
	total	5320	8.69	≤9.60	PASS	
	Ant1	5500	2.74	≤11.00	PASS	
	Ant2	5500	1.42	≤11.00	PASS	
	total	5500	5.14	≤9.60	PASS	
	Ant1	5580	4.96	≤11.00	PASS	
	Ant2	5580	3.41	≤11.00	PASS	
	total	5580	7.26	≤9.60	PASS	
	Ant1	5700	2.23	≤11.00	PASS	
	Ant2	5700	0.1	≤11.00	PASS	
	total	5700	4.30	≤9.60	PASS	
	11N40MIMO	Ant1	5190	2.05	≤11.00	PASS
		Ant2	5190	1.6	≤11.00	PASS
		total	5190	4.84	≤9.60	PASS
Ant1		5230	3.46	≤11.00	PASS	
Ant2		5230	2.7	≤11.00	PASS	
total		5230	6.11	≤9.60	PASS	
	Ant1	5270	3	≤11.00	PASS	

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	Ant2	5270	2.92	≤11.00	PASS
	total	5270	5.97	≤9.60	PASS
	Ant1	5310	1.02	≤11.00	PASS
	Ant2	5310	0.45	≤11.00	PASS
	total	5310	3.75	≤9.60	PASS
	Ant1	5510	0.03	≤11.00	PASS
	Ant2	5510	-1.21	≤11.00	PASS
	total	5510	2.46	≤9.60	PASS
	Ant1	5550	2.57	≤11.00	PASS
	Ant2	5550	1.98	≤11.00	PASS
	total	5550	5.30	≤9.60	PASS
	Ant1	5670	-0.38	≤11.00	PASS
	Ant2	5670	-2.12	≤11.00	PASS
	total	5670	1.85	≤9.60	PASS
11AC20MIMO	Ant1	5180	4.95	≤11.00	PASS
	Ant2	5180	4.37	≤11.00	PASS
	total	5180	7.68	≤9.60	PASS
	Ant1	5200	6.11	≤11.00	PASS
	Ant2	5200	5.42	≤11.00	PASS
	total	5200	8.79	≤9.60	PASS
	Ant1	5240	5.79	≤11.00	PASS
	Ant2	5240	5.27	≤11.00	PASS
	total	5240	8.55	≤9.60	PASS
	Ant1	5260	5.48	≤11.00	PASS
	Ant2	5260	5.06	≤11.00	PASS
	total	5260	8.29	≤9.60	PASS
	Ant1	5280	5.74	≤11.00	PASS
	Ant2	5280	5.75	≤11.00	PASS
	total	5280	8.76	≤9.60	PASS
	Ant1	5320	5.94	≤11.00	PASS
	Ant2	5320	4.85	≤11.00	PASS
	total	5320	8.44	≤9.60	PASS
	Ant1	5500	2.37	≤11.00	PASS
	Ant2	5500	1.11	≤11.00	PASS
	total	5500	4.80	≤9.60	PASS
	Ant1	5580	5.05	≤11.00	PASS
	Ant2	5580	3.64	≤11.00	PASS
	total	5580	7.41	≤9.60	PASS
	Ant1	5700	1.48	≤11.00	PASS
	Ant2	5700	-0.33	≤11.00	PASS
	total	5700	3.68	≤9.60	PASS
	11AC40MIMO	Ant1	5190	2.93	≤11.00
Ant2		5190	1.21	≤11.00	PASS
total		5190	5.16	≤9.60	PASS
Ant1		5230	3.18	≤11.00	PASS
Ant2		5230	3.33	≤11.00	PASS
total		5230	6.27	≤9.60	PASS
Ant1		5270	3.31	≤11.00	PASS
Ant2		5270	3.07	≤11.00	PASS
total		5270	6.20	≤9.60	PASS
Ant1		5310	0.58	≤11.00	PASS
Ant2		5310	0.16	≤11.00	PASS
total		5310	3.39	≤9.60	PASS
Ant1		5510	-0.3	≤11.00	PASS
Ant2		5510	-1.15	≤11.00	PASS
total		5510	2.31	≤9.60	PASS
Ant1		5550	2.37	≤11.00	PASS
Ant2		5550	1.94	≤11.00	PASS
total		5550	5.17	≤9.60	PASS
Ant1		5670	-0.84	≤11.00	PASS
Ant2		5670	-2.21	≤11.00	PASS
total	5670	1.54	≤9.60	PASS	

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11AC80MIMO	Ant1	5210	-3.84	≤11.00	PASS
	Ant2	5210	-4.03	≤11.00	PASS
	total	5210	-0.92	≤9.60	PASS
	Ant1	5290	-2.85	≤11.00	PASS
	Ant2	5290	-3.58	≤11.00	PASS
	total	5290	-0.19	≤9.60	PASS
	Ant1	5530	-3.94	≤11.00	PASS
	Ant2	5530	-5.19	≤11.00	PASS
	total	5530	-1.51	≤9.60	PASS
	Ant1	5610	-2.25	≤11.00	PASS
	Ant2	5610	-3.91	≤11.00	PASS
	total	5610	0.01	≤9.60	PASS

**U-NII-3**

TestMode	Antenna	Channel	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	2.08	≤30.00	PASS
	Ant2	5745	-1.74	≤30.00	PASS
	Ant1	5785	1.16	≤28.60	PASS
	Ant2	5785	-2.78	≤30.00	PASS
	Ant1	5825	1.79	≤30.00	PASS
	Ant2	5825	-2.21	≤28.60	PASS
11N20MIMO	Ant1	5745	1.78	≤30.00	PASS
	Ant2	5745	-1.74	≤30.00	PASS
	total	5745	3.38	≤28.60	PASS
	Ant1	5785	1.18	≤30.00	PASS
	Ant2	5785	-2.33	≤30.00	PASS
	total	5785	2.78	≤28.60	PASS
	Ant1	5825	1.4	≤30.00	PASS
	Ant2	5825	-1.94	≤30.00	PASS
11N40MIMO	total	5825	3.05	≤28.60	PASS
	Ant1	5755	-0.98	≤30.00	PASS
	Ant2	5755	-4.83	≤30.00	PASS
	total	5755	0.52	≤28.60	PASS
	Ant1	5795	-1.02	≤30.00	PASS
	Ant2	5795	-4.78	≤30.00	PASS
11AC20MIMO	total	5795	0.51	≤28.60	PASS
	Ant1	5745	1.96	≤30.00	PASS
	Ant2	5745	-1.66	≤30.00	PASS
	total	5745	3.53	≤28.60	PASS
	Ant1	5785	1.51	≤30.00	PASS
	Ant2	5785	-2.42	≤30.00	PASS
	total	5785	2.99	≤28.60	PASS
	Ant1	5825	-0.43	≤30.00	PASS
11AC40MIMO	Ant2	5825	-1.51	≤30.00	PASS
	total	5825	2.07	≤28.60	PASS
	Ant1	5755	-0.38	≤30.00	PASS
	Ant2	5755	-4.07	≤30.00	PASS
	total	5755	1.17	≤28.60	PASS
	Ant1	5795	-0.75	≤30.00	PASS
11AC80MIMO	Ant2	5795	-4.6	≤30.00	PASS
	total	5795	0.75	≤28.60	PASS
	Ant1	5775	-5.36	≤30.00	PASS
	Ant2	5775	-9.6	≤30.00	PASS
	total	5775	-3.97	≤28.60	PASS

**Note:**

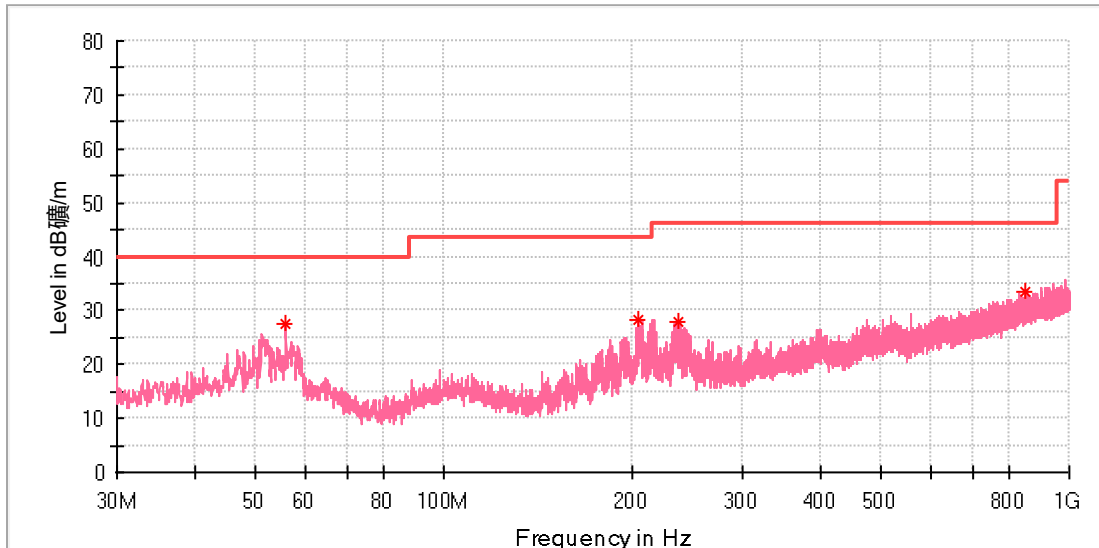
1. As fro 802.11a, only SISO supported. Both RF ports tested, only the higher power data recorded above.
2. As fro 802.11n/ac, Both MIMO and SISO supported. Both MIMO and SISO mode tested, only the higher power mode MIMO recorded above.
3. All required channels tested, only the worst-case channels reported.
4. As per KDB662911D01 section F) f) (ii), the direction gain for power spectral density (PSD) MIMO mode is 7.4dBi\*, thus, PSD limit reduced accordingly.

\* The directional gain is calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain\*



## EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11a_Ch36
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical Freqs

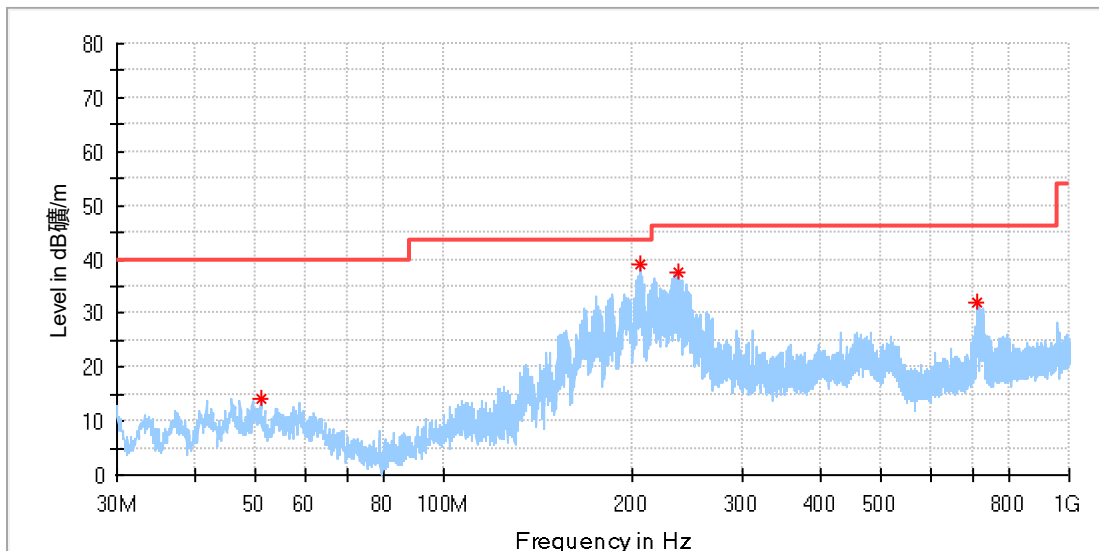
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
55.850500	27.67	40.00	12.33	100.0	V	284.0	-18.5
204.745500	28.37	43.50	15.13	100.0	V	0.0	-18.9
236.173500	28.09	46.00	17.91	100.0	V	140.0	-17.8
849.747000	33.67	46.00	12.33	100.0	V	235.0	-5.5

## Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

## EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11a_Ch165
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical Freqs

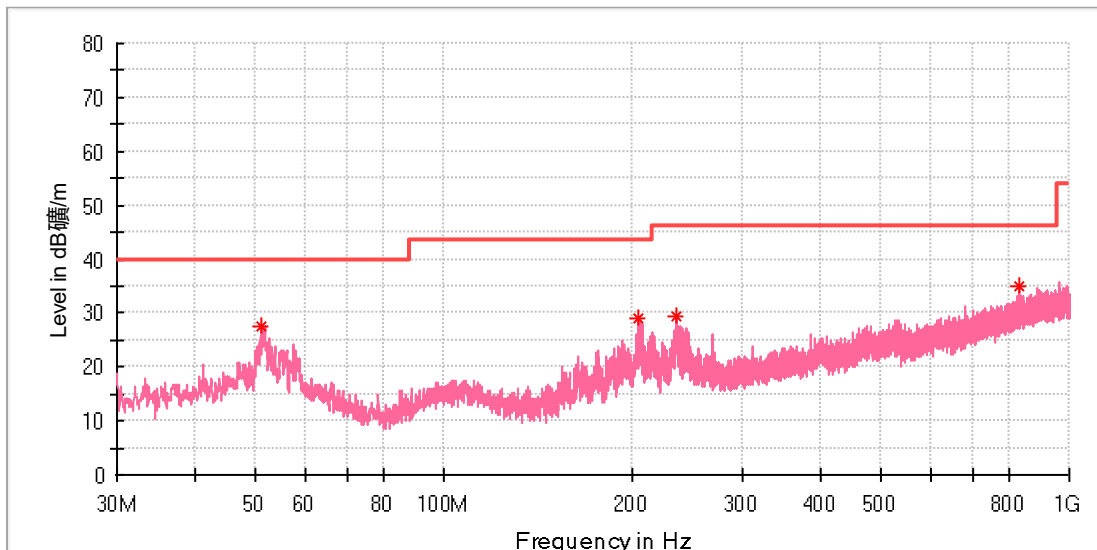
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.929615	14.09	40.00	25.91	100.0	H	296.0	-18.6
205.681923	38.91	43.50	4.59	100.0	H	71.0	-19.2
236.833846	37.75	46.00	8.25	100.0	H	86.0	-18.1
712.506923	31.81	46.00	14.19	100.0	H	222.0	-8.2

## Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11a_Ch165
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.194500	27.40	40.00	12.60	100.0	V	211.0	-18.3
205.230500	29.13	43.50	14.37	100.0	V	17.0	-18.9
235.106500	29.41	46.00	16.59	100.0	V	47.0	-17.9
828.795000	35.02	46.00	10.98	100.0	V	123.0	-5.8

### Final\_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



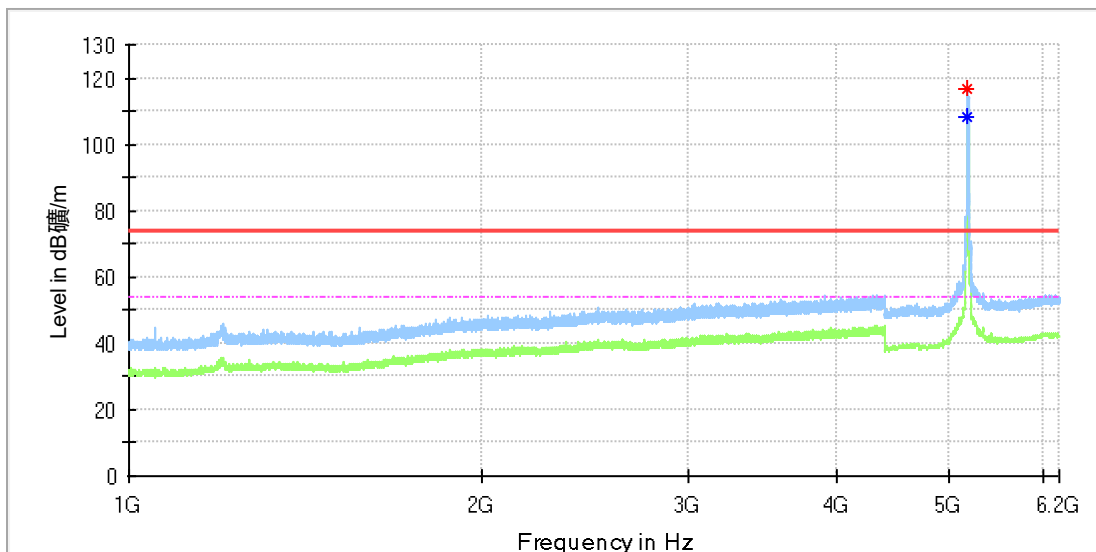
## 5.2 Transmitter Spurious Emissions, above 1GHz

Note: The highest waveform in the figure is Wi-Fi Fundamental.

U-NII-1 Band:

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11a_Ch36
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

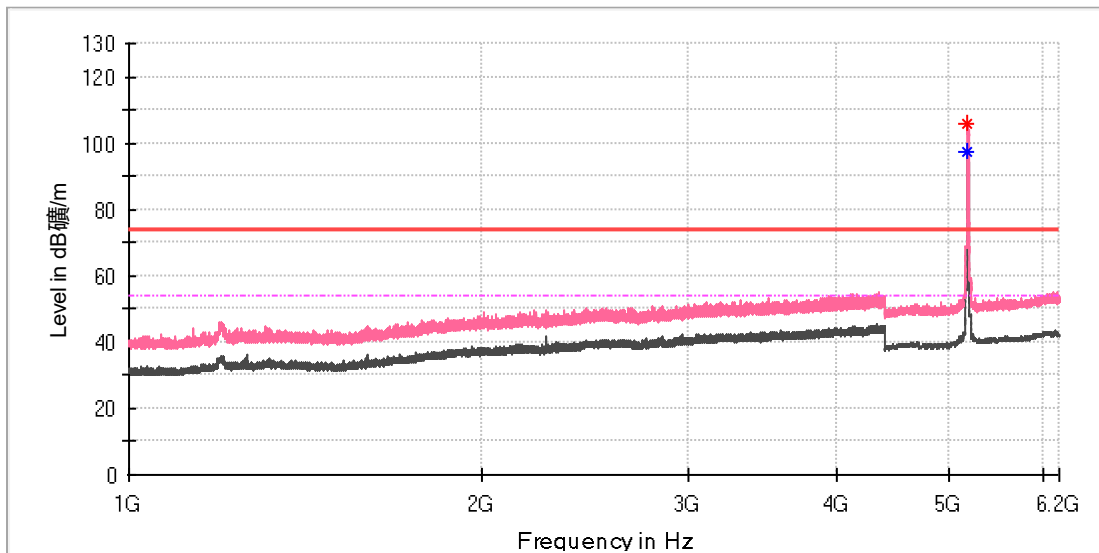
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5179.000000	116.59	---	74.00	-42.59	100.0	H	17.0	12.6
5179.000000	---	108.02	54.00	-54.02	100.0	H	17.0	12.6

### Final\_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11a_Ch36
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

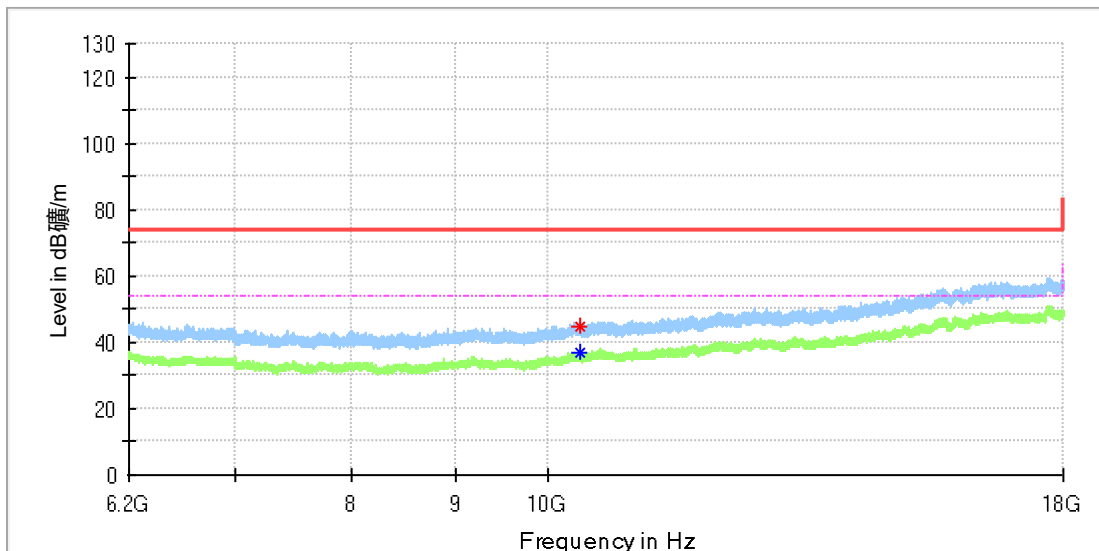
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5178.500000	105.90	---	74.00	-31.90	100.0	V	106.0	12.6
5178.500000	---	97.31	54.00	-43.31	100.0	V	106.0	12.6

### Final\_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11a_Ch36
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

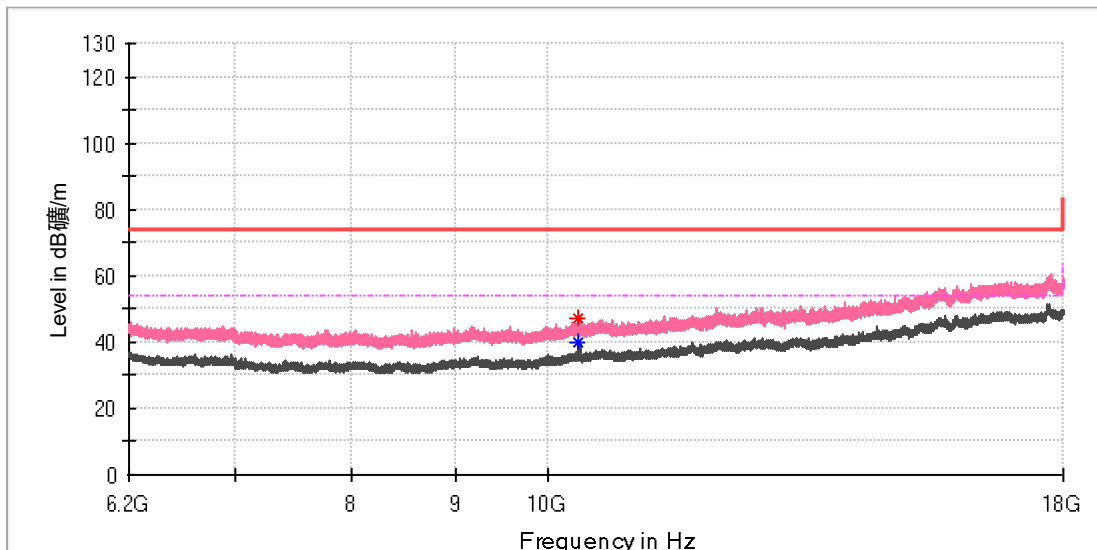
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10360.975000	44.82	---	74.00	29.18	100.0	H	203.0	11.8
10373.758333	---	36.98	54.00	17.02	100.0	H	164.0	11.8

### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11a_Ch36
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

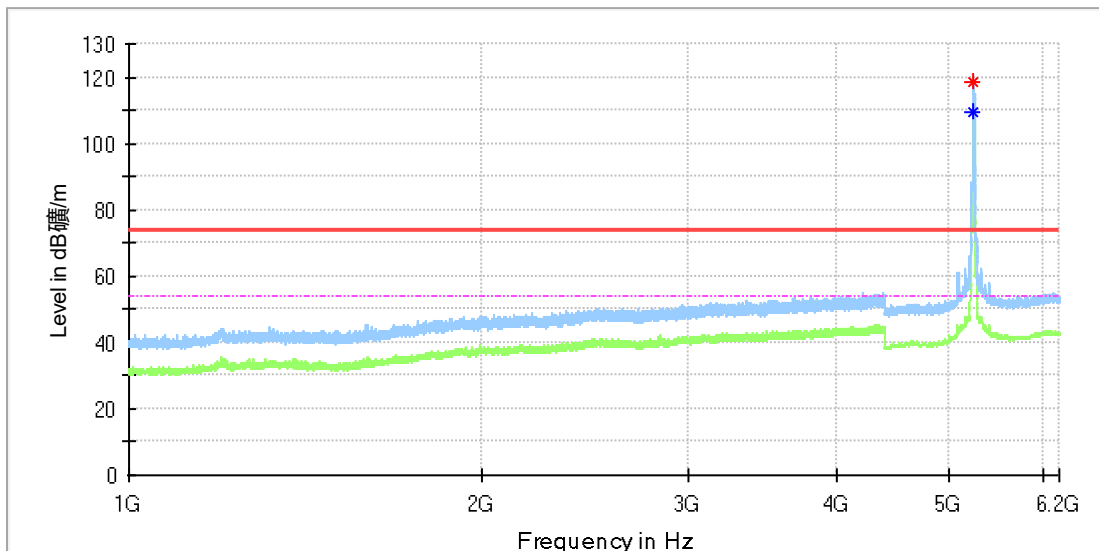
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10360.483333	47.24	---	74.00	26.76	100.0	V	231.0	11.8
10360.483333	---	39.76	54.00	14.24	100.0	V	231.0	11.8

### Final\_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11n20_Ch48
Order No/Sample No:	168361390/A003220167-006
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

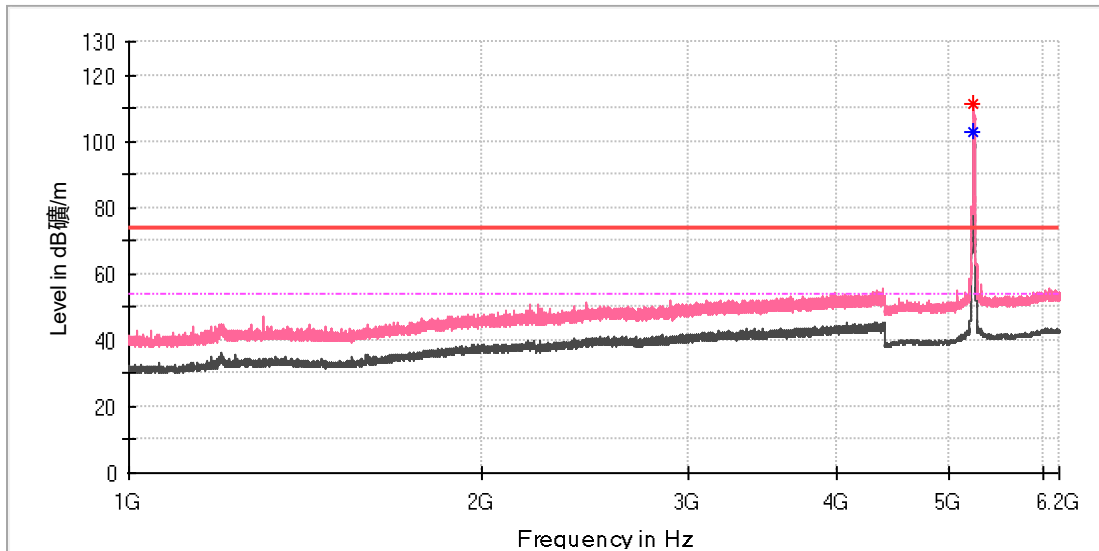
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5239.000000	---	109.56	54.00	-55.56	100.0	H	76.0	12.8
5237.500000	118.27	---	74.00	-44.27	100.0	H	355.0	12.8

### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

## EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11n20_Ch48
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical Freqs

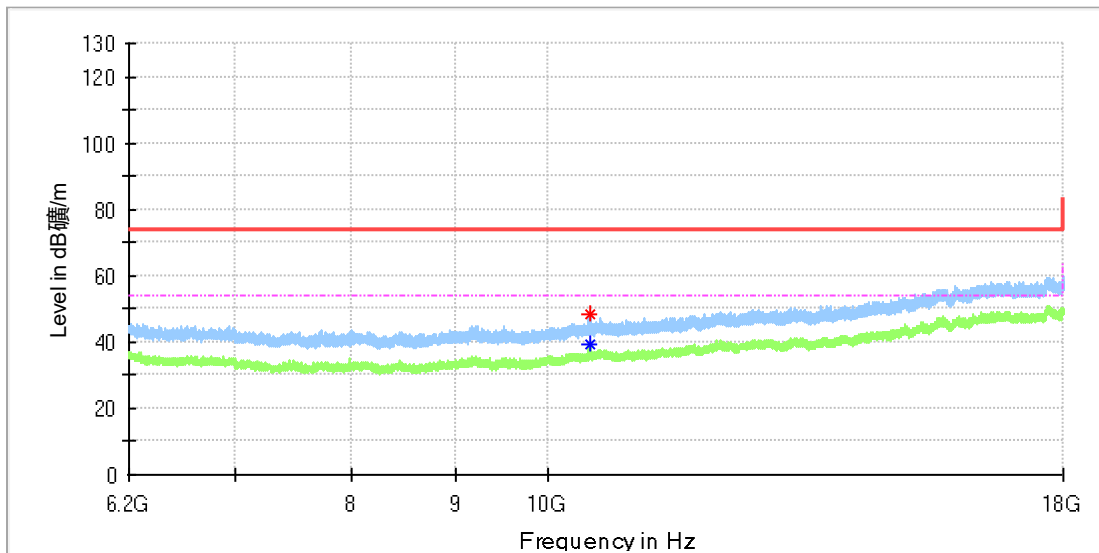
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5238.000000	111.27	---	74.00	-37.27	100.0	V	359.0	12.8
5240.500000	---	102.50	54.00	-48.50	100.0	V	359.0	12.8

## Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11n20_Ch48
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

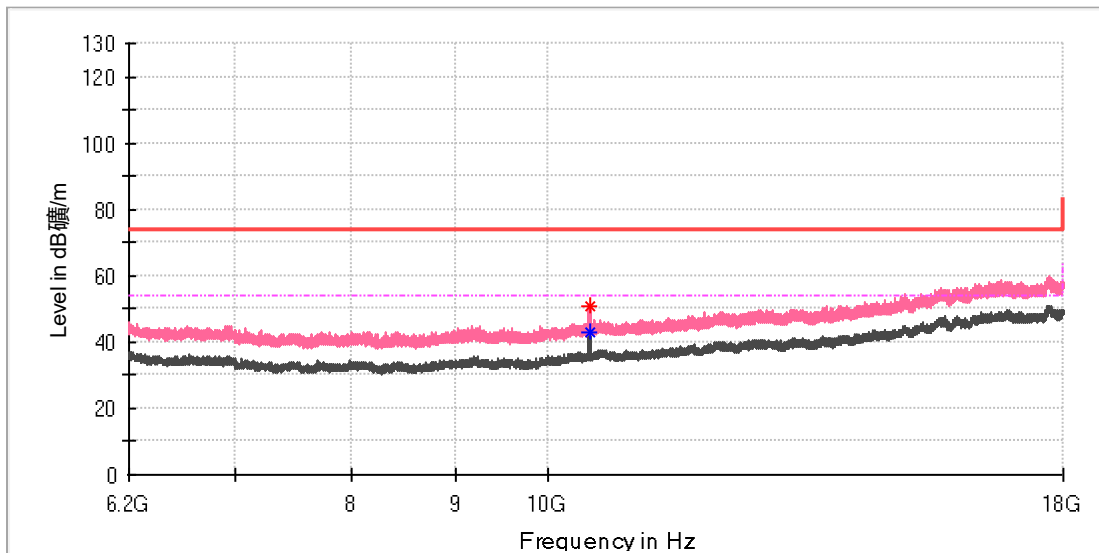
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10480.941667	48.12	---	74.00	25.88	100.0	H	25.0	12.0
10486.350000	---	39.26	54.00	14.74	100.0	H	3.0	12.0

### Final\_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11n20_Ch48
Order No./Sample No.:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10479.958333	---	42.66	54.00	11.34	100.0	V	235.0	12.0
10480.941667	50.88	---	74.00	23.12	100.0	V	235.0	12.0

### Final\_Result

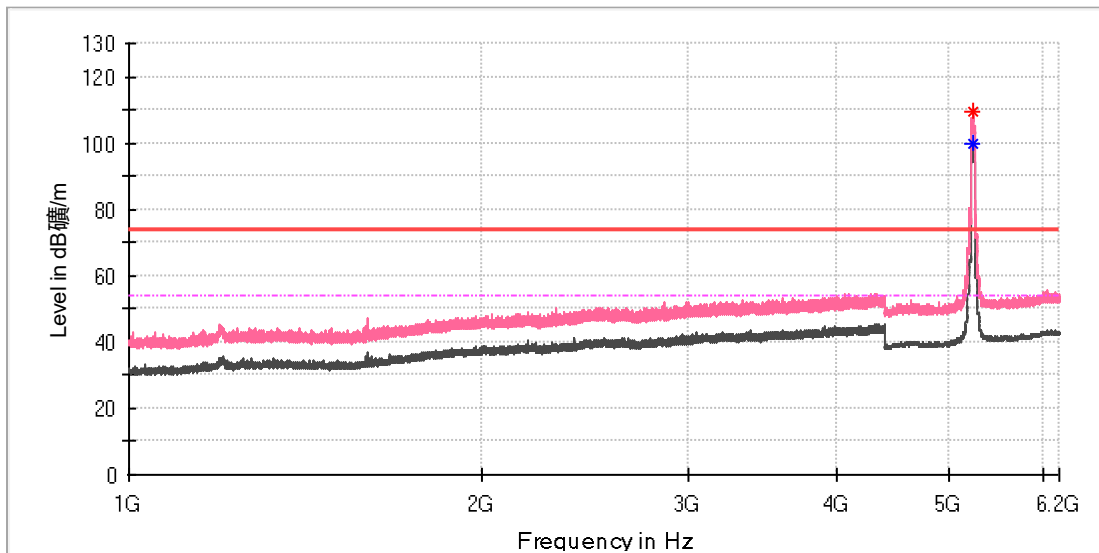
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---





### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11ac40_Ch46
Order No./Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

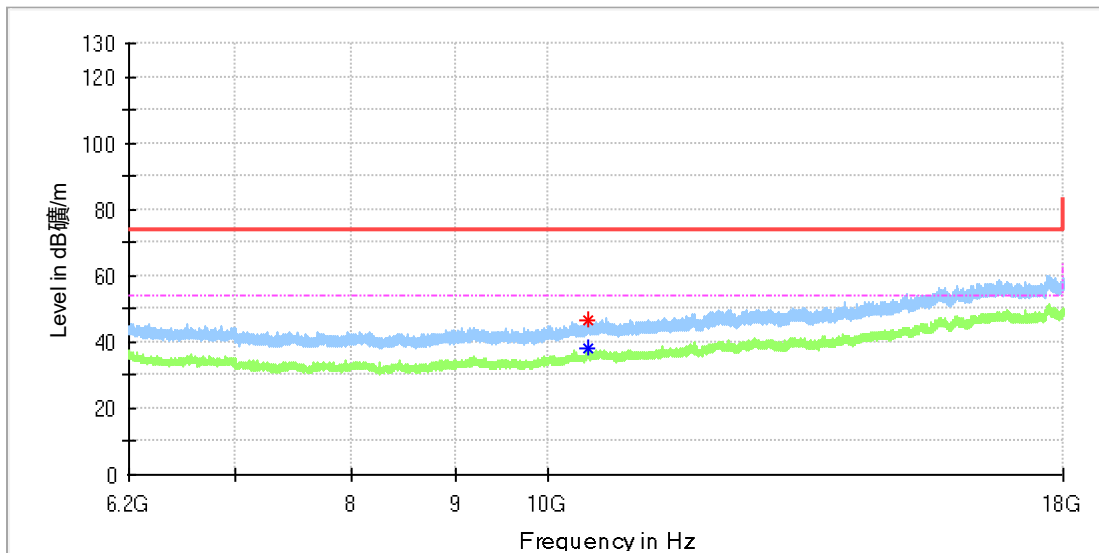
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5233.000000	---	99.53	54.00	-45.53	100.0	V	0.0	12.8
5226.000000	109.26	---	74.00	-35.26	100.0	V	2.0	12.8

### Final\_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11ac40_Ch46
Order No./Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

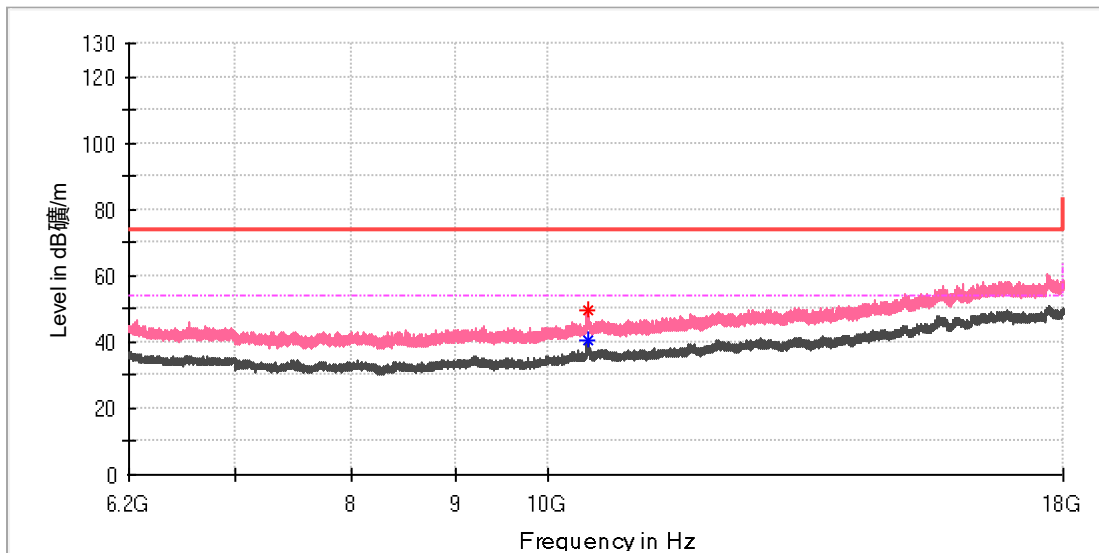
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10456.850000	---	38.10	54.00	15.90	100.0	H	21.0	12.0
10462.258333	46.41	---	74.00	27.59	100.0	H	21.0	12.0

### Final\_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

## EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11ac40_Ch46
Order No./Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10458.325000	---	40.71	54.00	13.29	100.0	V	329.0	12.0
10460.783333	49.67	---	74.00	24.33	100.0	V	342.0	12.0

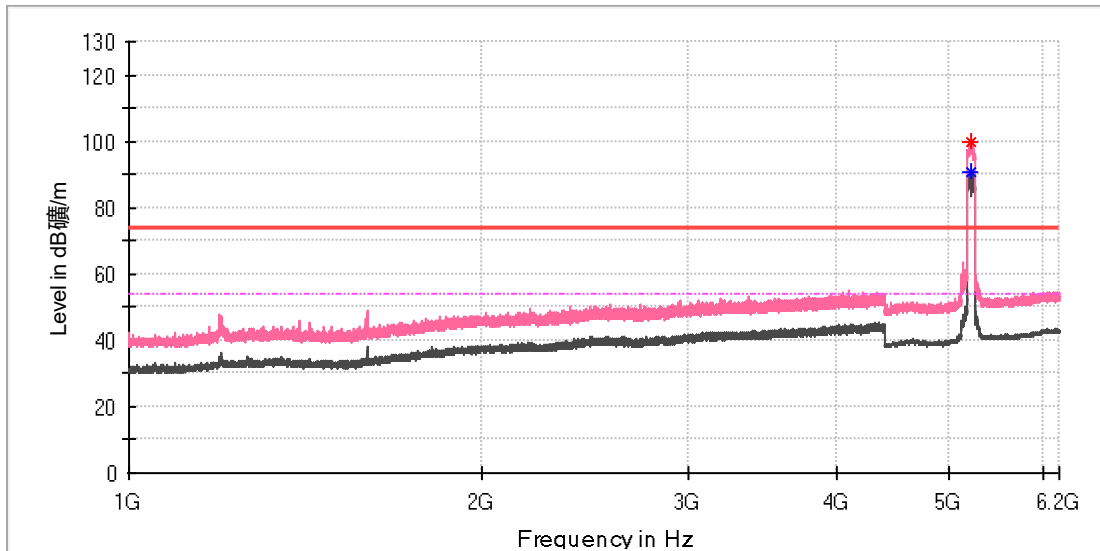
## Final\_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



## EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11ac80_Ch42
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5207.500000	---	90.42	54.00	-36.42	100.0	V	358.0	12.7
5212.000000	99.98	---	74.00	-25.98	100.0	V	358.0	12.7

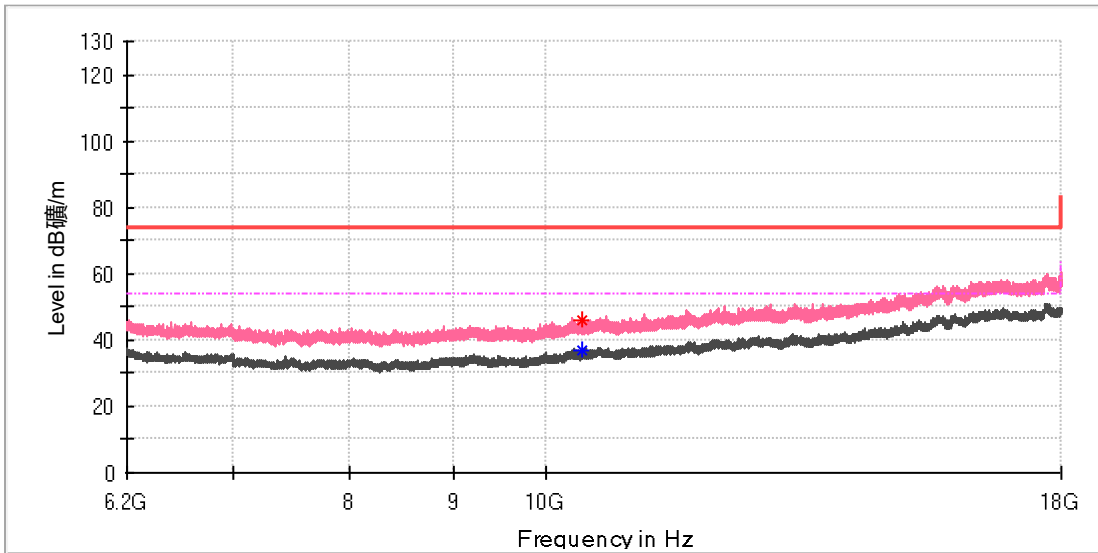
## Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



## EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11ac80_Ch42
Order No./Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10421.941667	---	36.71	54.00	17.29	100.0	V	212.0	11.9
10424.891667	46.22	---	74.00	27.78	100.0	V	162.0	11.9

## Final\_Result

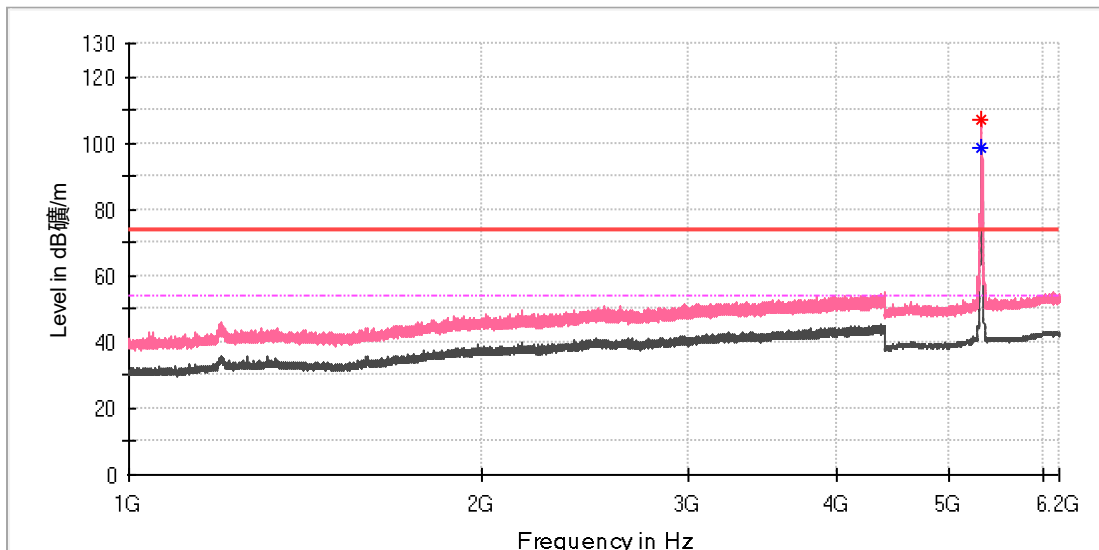
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---





### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11a_Ch64
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

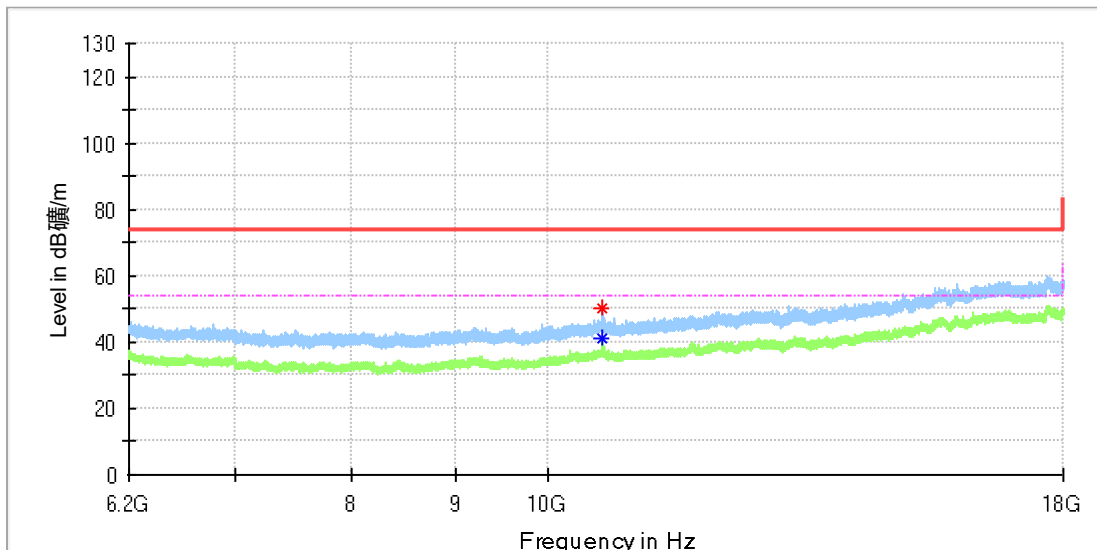
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5319.000000	---	98.44	54.00	-44.44	100.0	V	103.0	13.1
5322.000000	107.11	---	74.00	-33.11	100.0	V	103.0	13.1

### Final\_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11a_Ch64
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

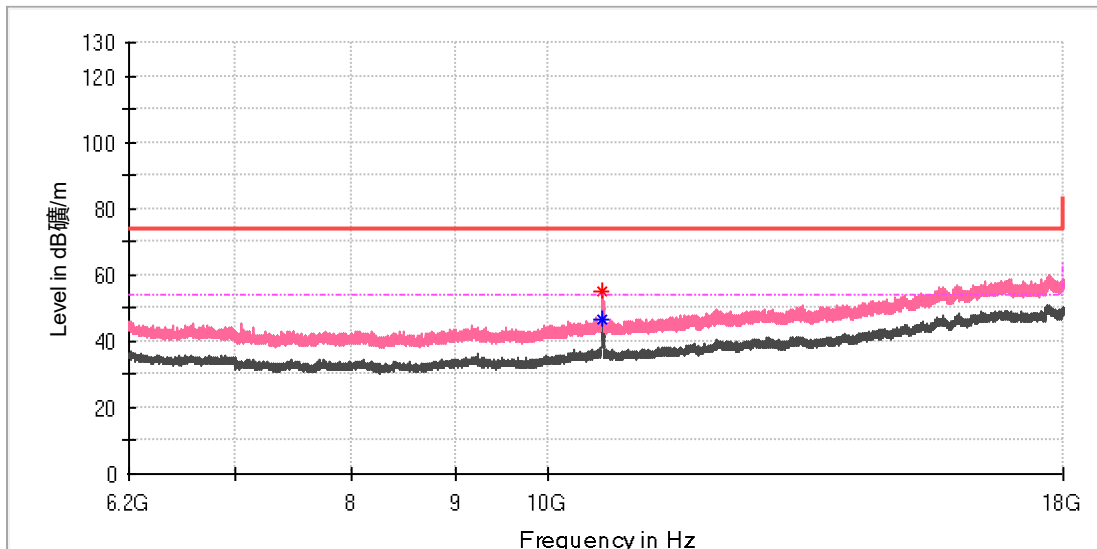
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10637.783333	---	40.85	54.00	13.15	100.0	H	27.0	12.0
10640.733333	50.36	---	74.00	23.64	100.0	H	4.0	12.0

### Final\_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11a_Ch64
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10637.291667	54.76	---	74.00	19.24	100.0	V	340.0	12.0
10639.750000	---	46.76	54.00	7.24	100.0	V	340.0	12.0

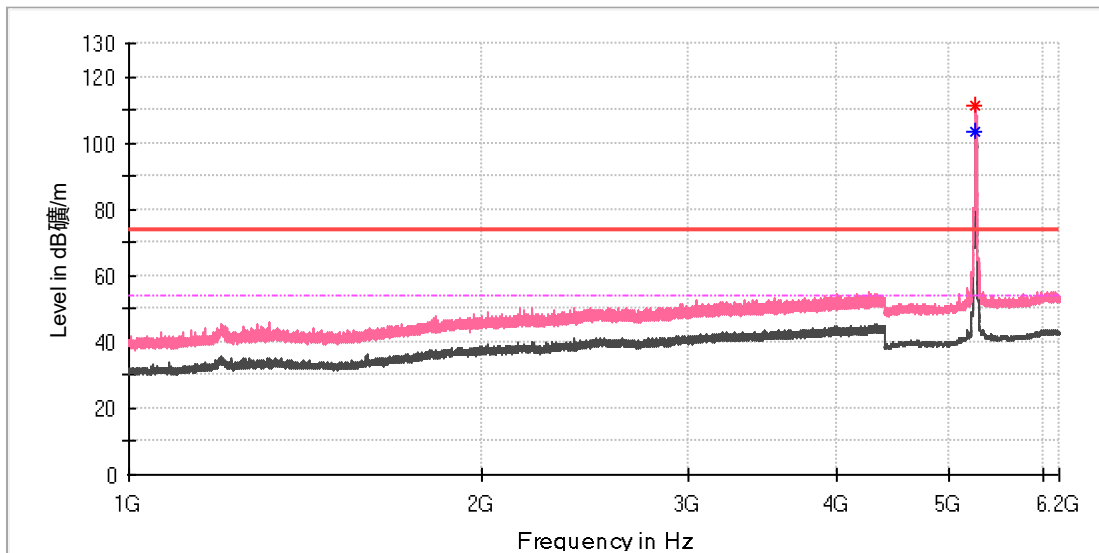
### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11n20_Ch52
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5258.000000	111.14	---	74.00	-37.14	100.0	V	107.0	12.9
5258.000000	---	103.14	54.00	-49.14	100.0	V	107.0	12.9

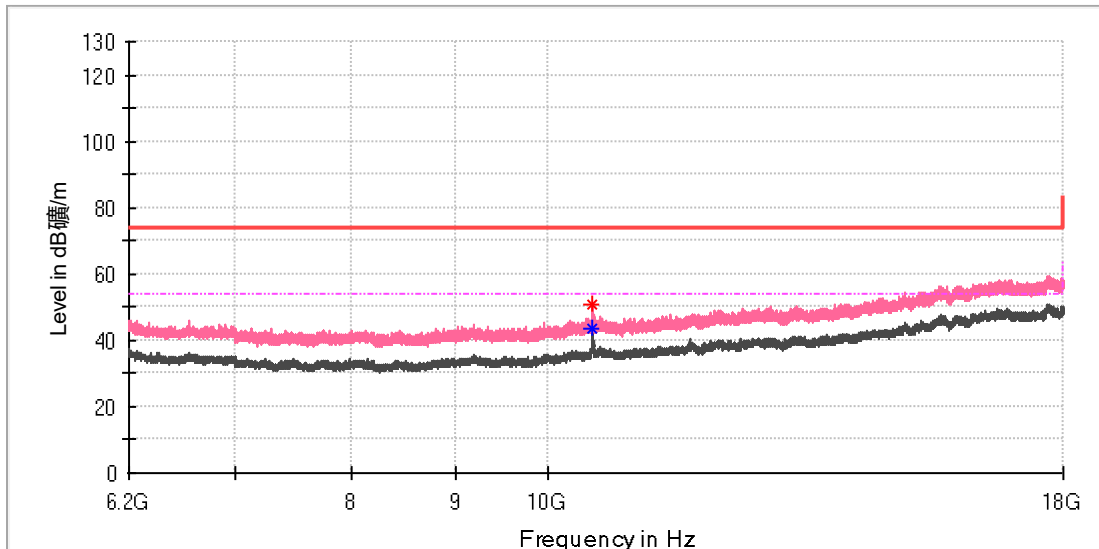
### Final\_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



## EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11n20_Ch52
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10515.850000	50.88	---	74.00	23.12	100.0	V	324.0	12.0
10520.766667	---	43.81	54.00	10.19	100.0	V	13.0	12.0

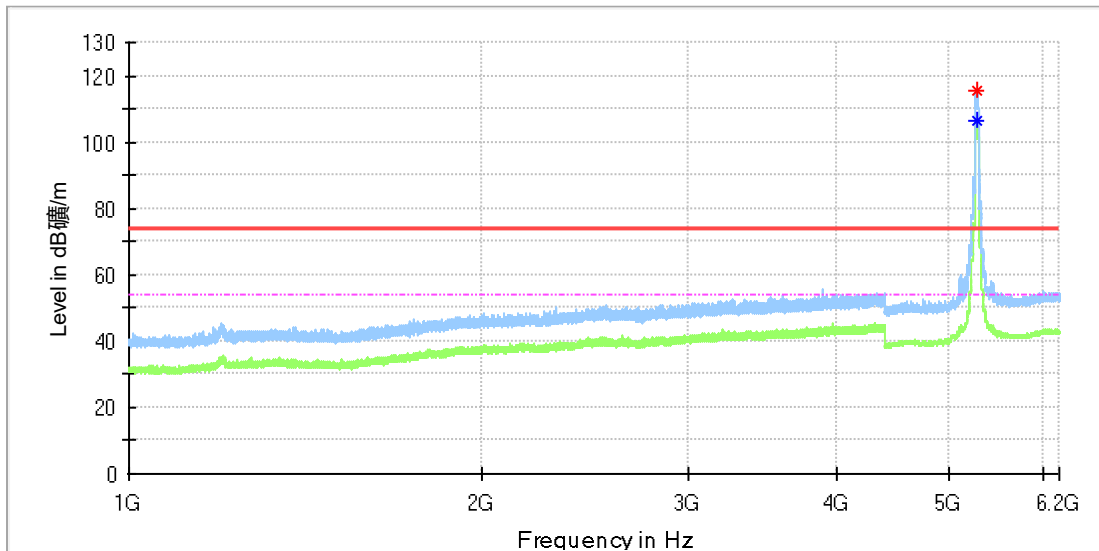
## Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---



## EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11ac40_Ch54
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical\_Freqs

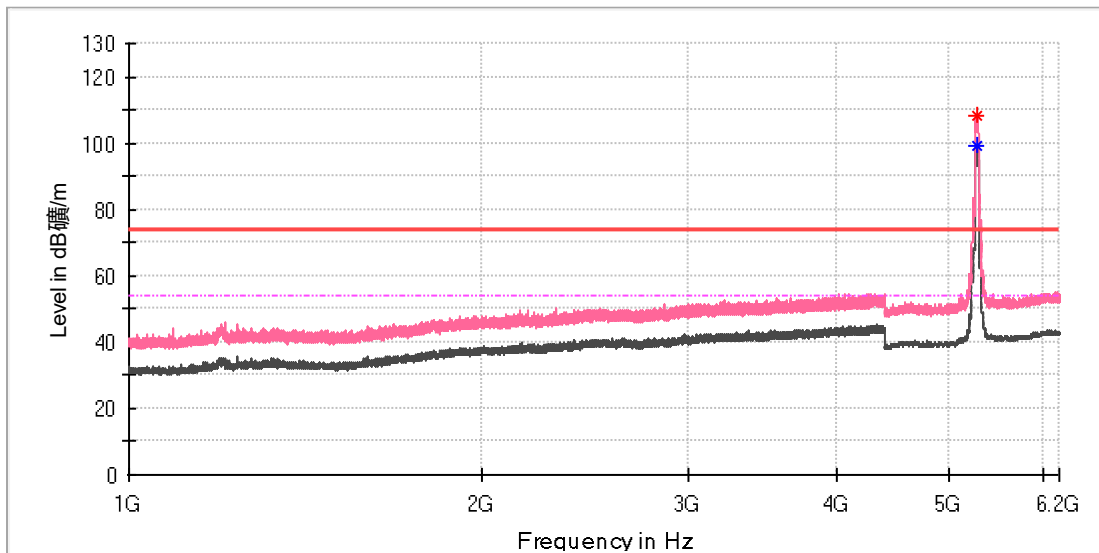
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5272.500000	115.38	---	74.00	-41.38	100.0	H	75.0	12.9
5272.500000	---	106.29	54.00	-52.29	100.0	H	75.0	12.9

## Final\_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11ac40_Ch54
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

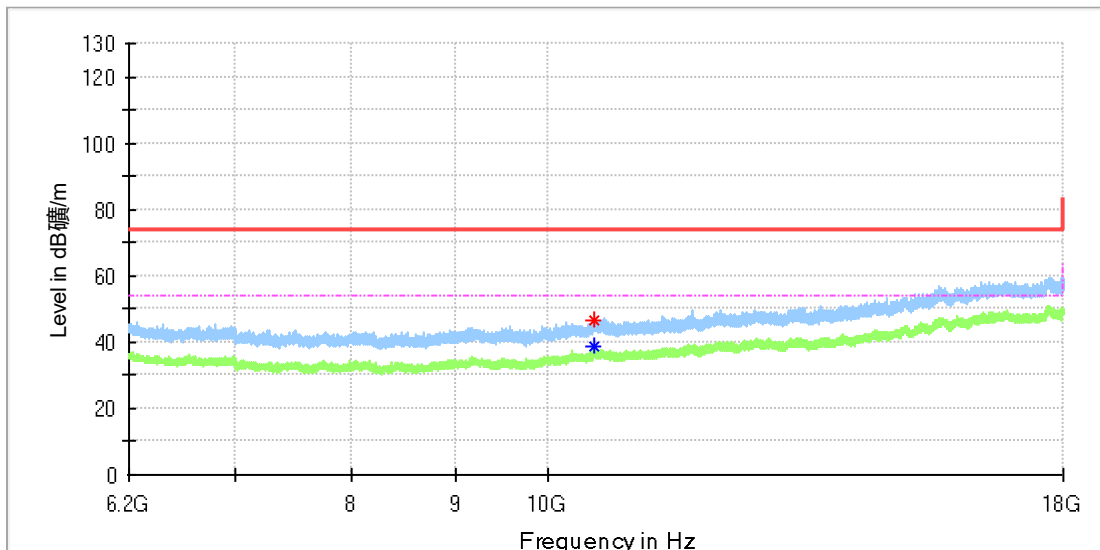
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5272.500000	108.24	---	74.00	-34.24	100.0	V	359.0	12.9
5273.500000	---	99.23	54.00	-45.23	100.0	V	359.0	12.9

### Final\_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11ac40_Ch54
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical\_Freqs

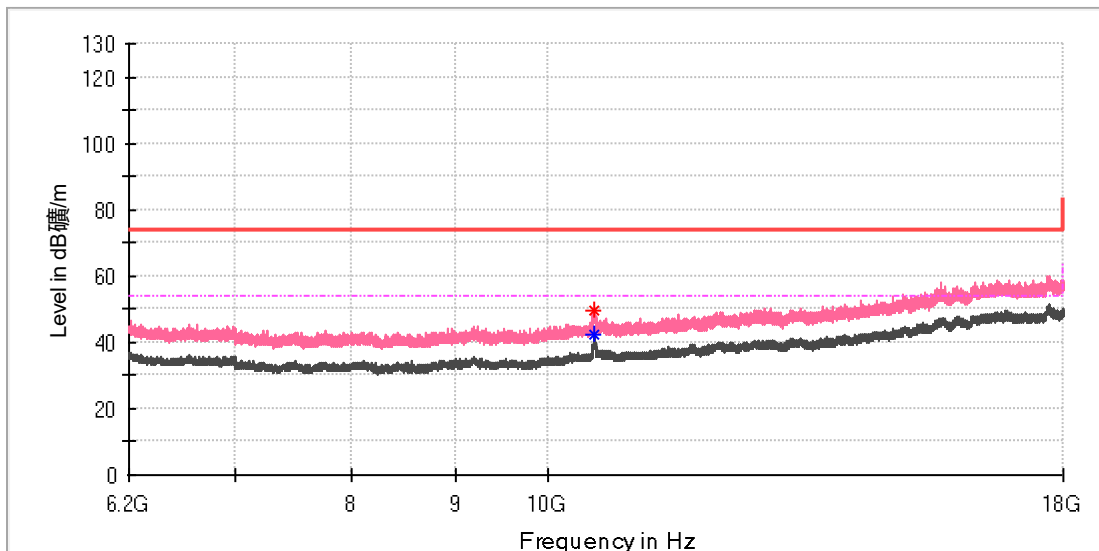
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10531.583333	46.78	---	74.00	27.22	100.0	H	293.0	12.0
10540.433333	---	38.75	54.00	15.25	100.0	H	19.0	12.0

### Final\_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11ac40_Ch54
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10539.450000	49.35	---	74.00	24.65	100.0	V	276.0	12.0
10546.333333	---	42.39	54.00	11.61	100.0	V	342.0	12.0

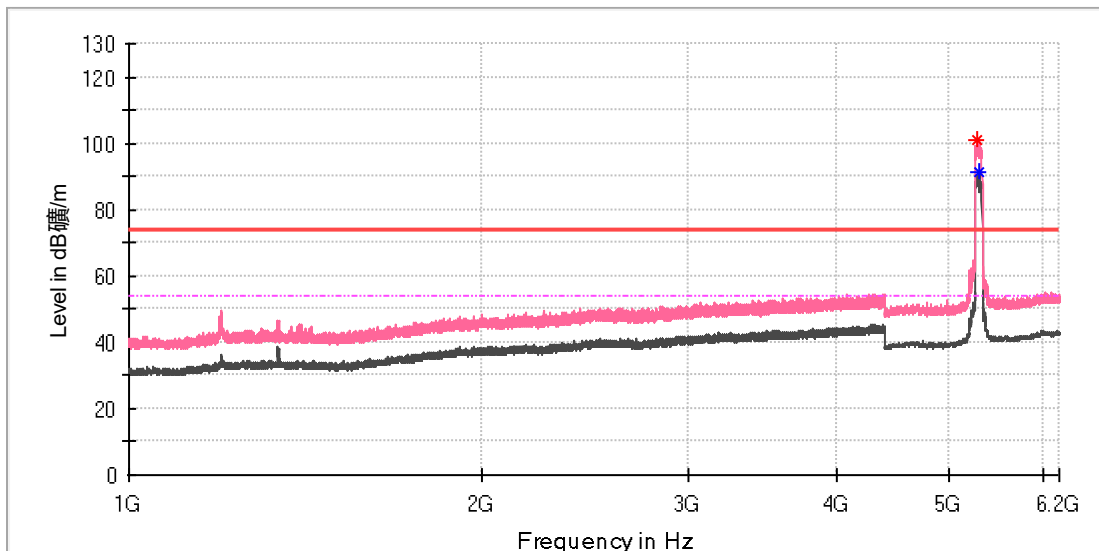
### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11ac80_Ch58
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

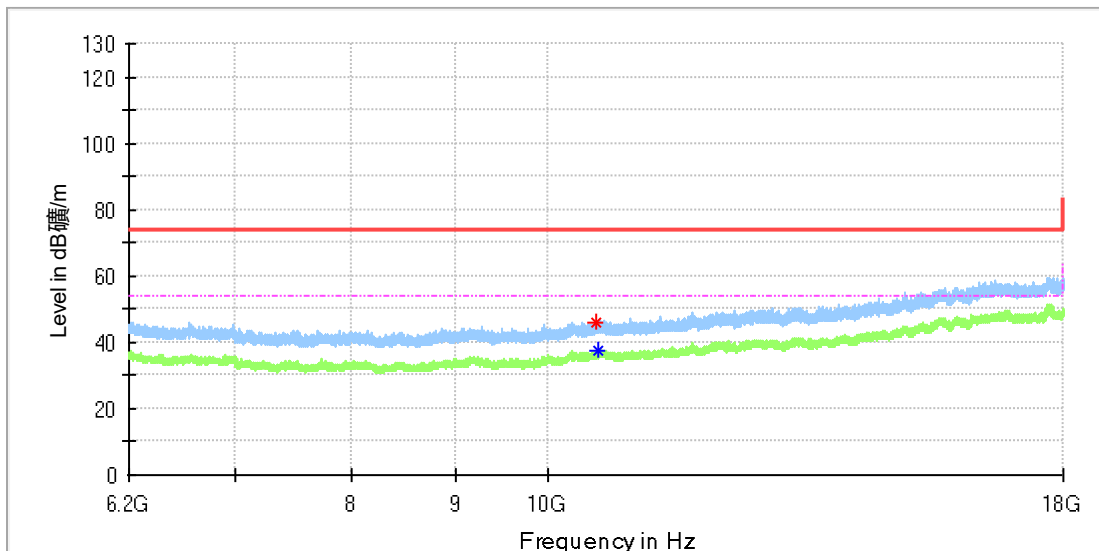
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5293.500000	---	91.46	54.00	-37.46	100.0	V	0.0	13.0
5286.500000	101.12	---	74.00	-27.12	100.0	V	175.0	12.9

### Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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## EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11ac80_Ch58
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical Freqs

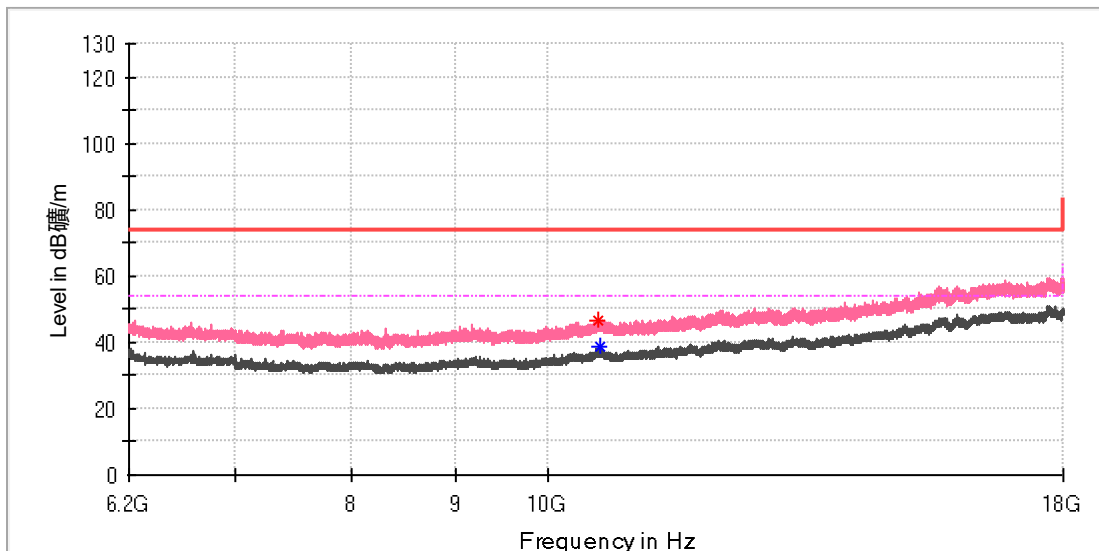
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10573.375000	46.25	---	74.00	27.75	100.0	H	205.0	12.0
10585.666667	---	37.46	54.00	16.54	100.0	H	254.0	12.0

## Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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### EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11ac80_Ch58
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



### Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10590.583333	46.84	---	74.00	27.16	100.0	V	156.0	12.1
10605.825000	---	38.49	54.00	15.51	100.0	V	296.0	12.1

### Final Result

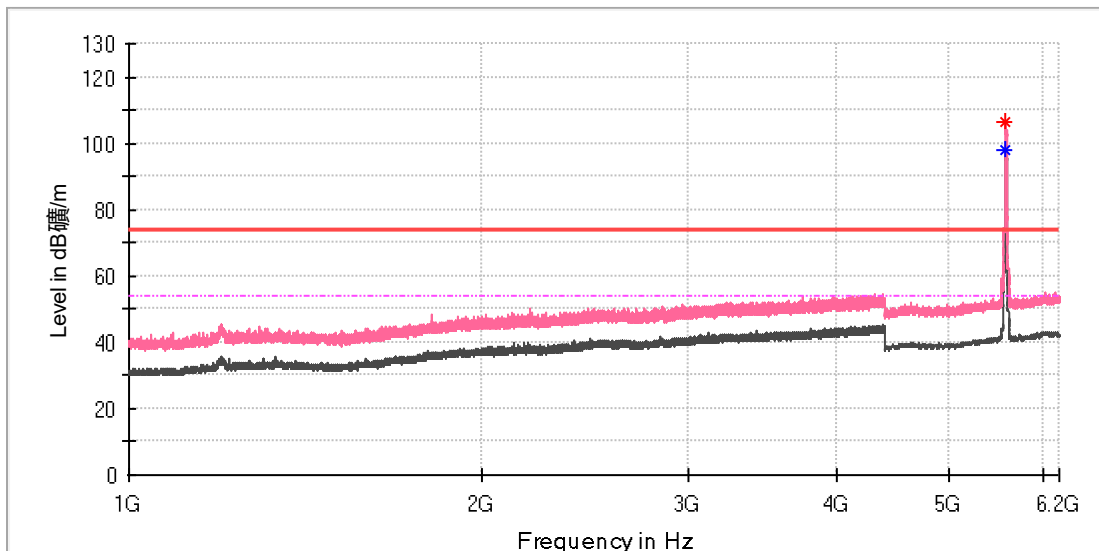
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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## EUT Information

EUT Name:	Wi-Fi Module
Model:	WF-M63B-UWP1
Test Mode:	WiFi 5G_11a_Ch116
Order No/Sample No:	168361390/A003220167-006
Test Voltage::	DC 5V From USB
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



## Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5578.500000	---	97.72	54.00	-43.72	100.0	V	354.0	13.8
5581.500000	106.51	---	74.00	-32.51	100.0	V	354.0	13.8

## Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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