

ANNEX A: Test Result

1. Unwanted Emission

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the loop antenna is coplanar, the others are vertical and horizontal. and the worst case was recorded.

1.1. Wi-Fi 5GHz

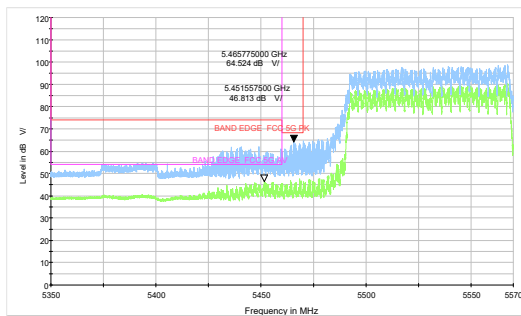
The following graphs display the maximum values of horizontal and vertical by software. Blue trace uses the peak detection, Green trace uses the average detection.

A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

The signal beyond the limit is carrier.

F154C

802.11ac VHT80-Channel 106: Peak + Average



Result of RE

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier.
The Radiates Emission from 9kHz to 30MHz and 18GHz to 40GHz are more than 20dB below the limit
are not reported.

Remark:

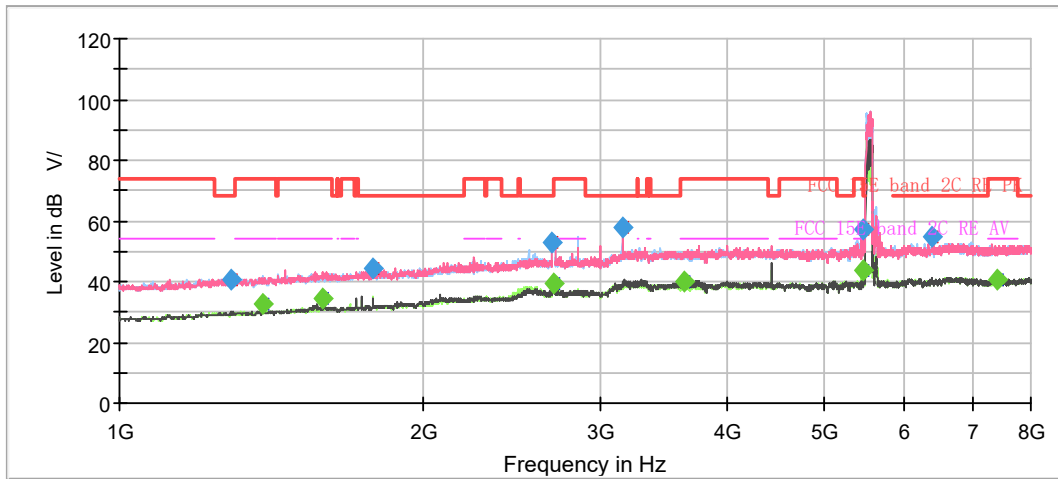
1. **Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)**
2. **Margin = Limit –MAX Peak/ Average**
3. **A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)**
4. **The following graphs display the maximum values of horizontal and vertical by software.**
5. **For above 1GHz**

 PK Level @Spectrum Overview H
  PK Level @Spectrum Overview V
  PK Level @Final Results
  PK Limit
 AVG Level @Spectrum Overview H
  AVG Level @Spectrum Overview V
  AVG Level @Final Results
  AVG Limit

Continuous TX mode:

F154C

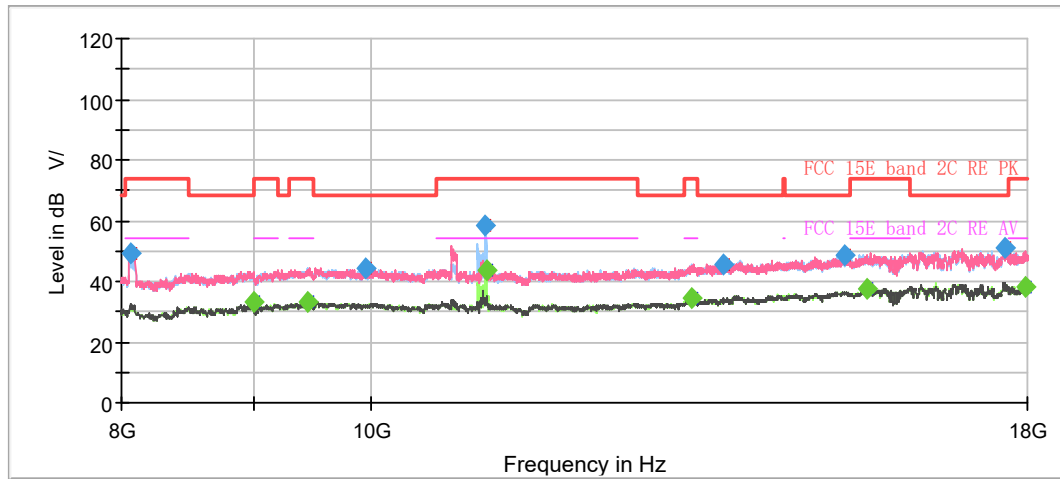
802.11ax (HE 80) CH106



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1292.250000	40.71	---	68.20	27.49	500.0	200.0	V	265.0	-8.2
1385.875000	---	32.62	54.00	21.38	500.0	100.0	H	225.0	-7.7
1588.000000	---	34.72	54.00	19.28	500.0	100.0	V	154.0	-6.5
1782.250000	44.49	---	68.20	23.71	500.0	200.0	V	65.0	-5.6
2687.000000	53.13	---	68.20	15.07	500.0	200.0	V	239.0	-1.7
2697.500000	---	39.16	54.00	14.84	500.0	100.0	V	198.0	-1.6
3147.250000	57.84	---	68.20	10.36	500.0	200.0	V	124.0	-0.3
3627.625000	---	40.23	54.00	13.77	500.0	200.0	V	75.0	1.9
5451.125000	---	43.67	54.00	10.33	500.0	100.0	V	145.0	5.3
5465.125000	57.06	---	68.20	11.14	500.0	100.0	V	1.0	5.4
6381.250000	54.70	---	68.20	13.50	500.0	100.0	V	67.0	5.8
7419.875000	---	40.51	54.00	13.49	500.0	100.0	V	300.0	7.2



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8073.750000	49.18	---	74.00	24.82	500.0	100.0	V	187.0	-2.4
9000.000000	---	33.24	54.00	20.76	500.0	100.0	V	258.0	-1.3
9457.500000	---	33.44	54.00	20.56	500.0	100.0	H	80.0	-0.2
9962.500000	44.59	---	68.20	23.61	500.0	100.0	V	187.0	-1.0
11085.000000	58.21	---	74.00	15.79	500.0	200.0	H	274.0	-0.5
11087.500000	---	43.44	54.00	10.56	500.0	200.0	H	274.0	-0.5
13335.000000	---	34.24	54.00	19.76	500.0	200.0	V	60.0	2.3
13723.750000	45.35	---	68.20	22.85	500.0	200.0	V	69.0	3.3
15276.250000	48.67	---	68.20	19.53	500.0	200.0	H	356.0	5.6
15590.000000	---	37.27	54.00	16.73	500.0	100.0	H	109.0	6.5
17635.000000	50.95	---	68.20	17.25	500.0	200.0	V	177.0	10.2
17963.750000	---	38.46	54.00	15.54	500.0	100.0	V	34.0	10.7