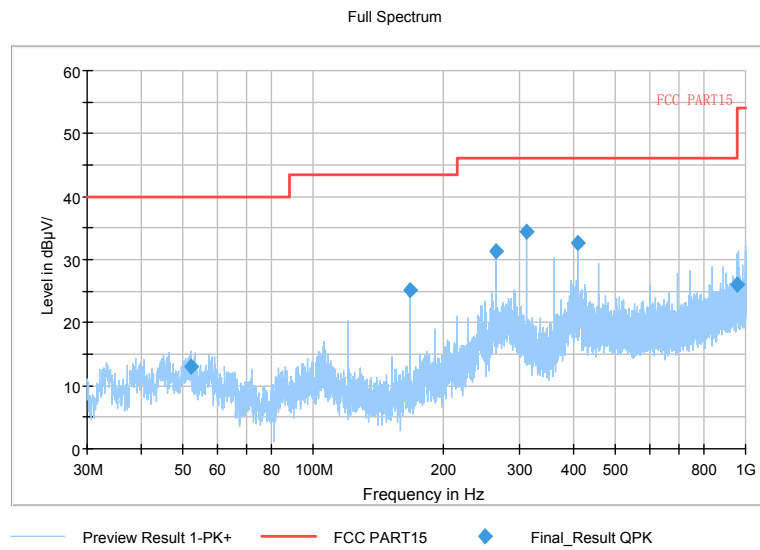
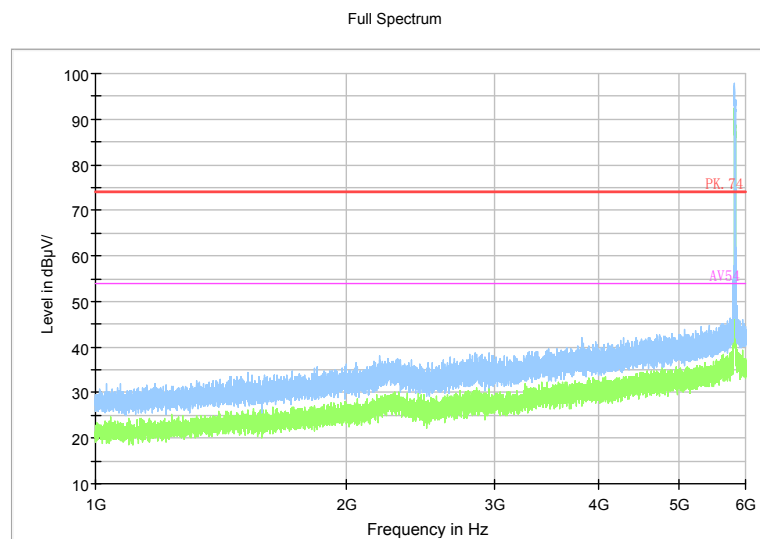


Carrier frequency (MHz): 5825
Channel No.:165



Comment

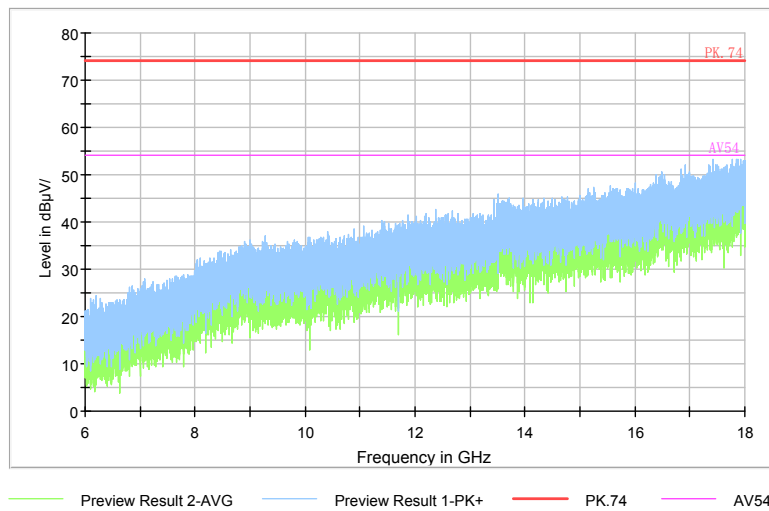
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11a



Comment

Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11a

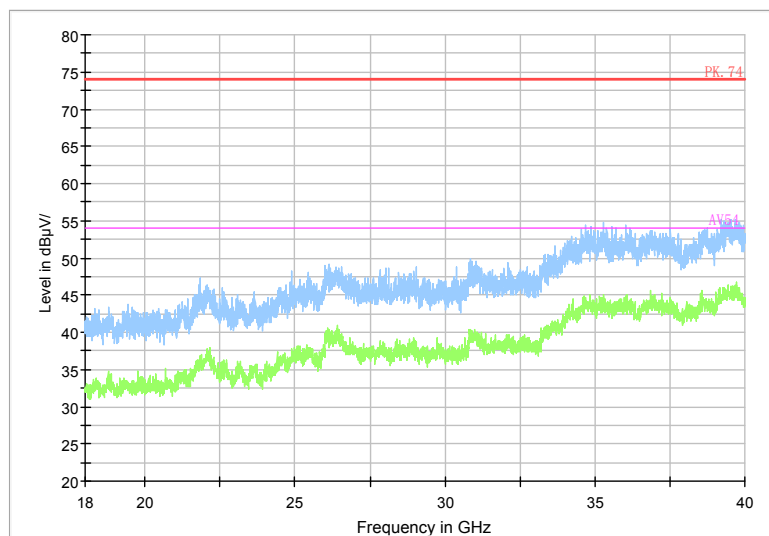
Full Spectrum



Comment

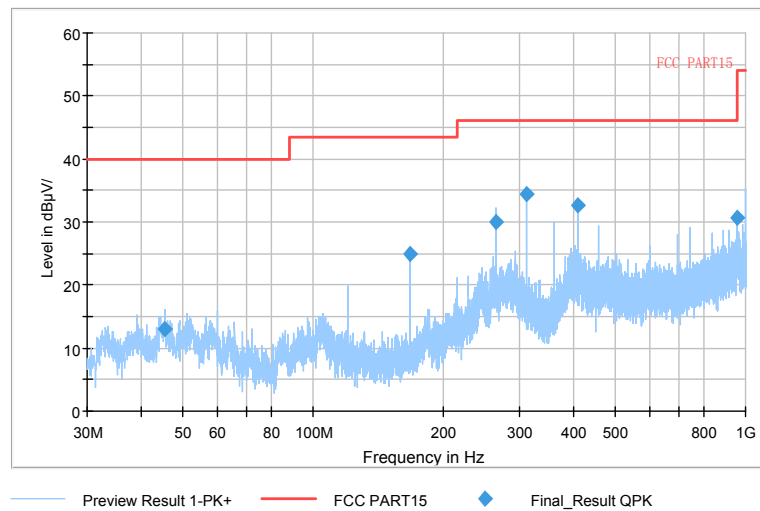
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11a

Full Spectrum



Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11a

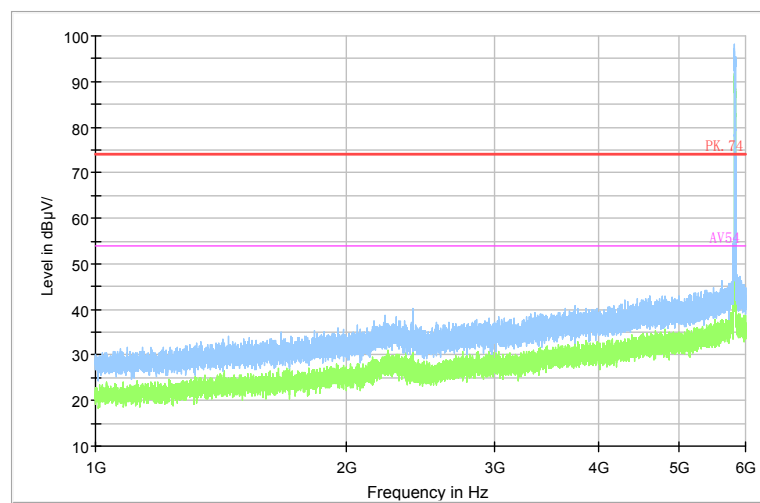
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT20)

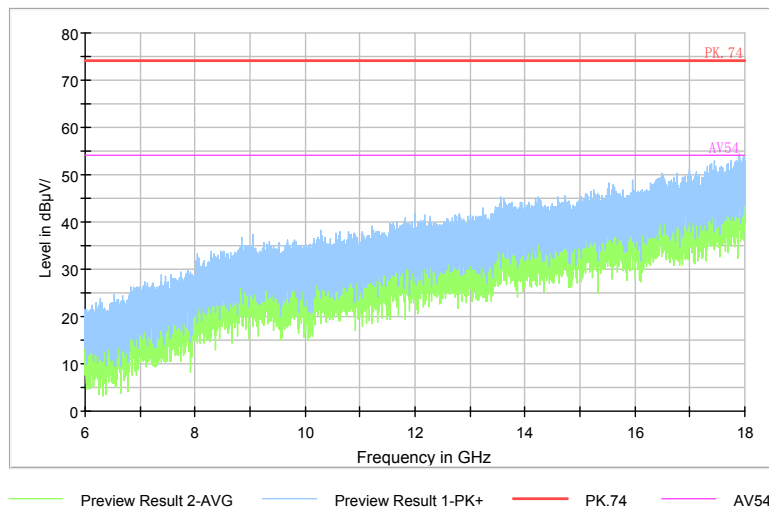
Full Spectrum



Comment

Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

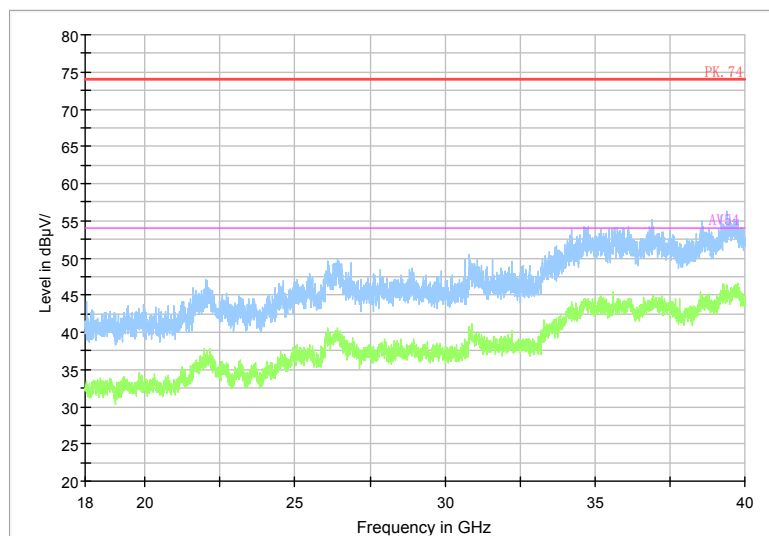
Full Spectrum



Comment

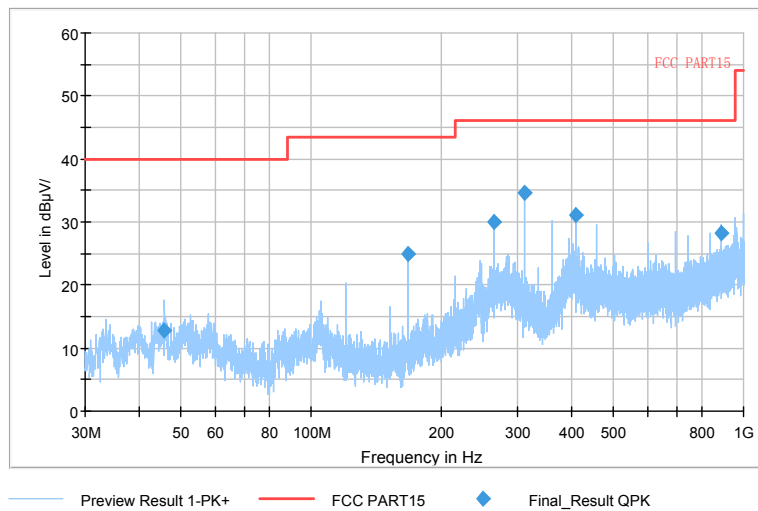
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Full Spectrum



Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

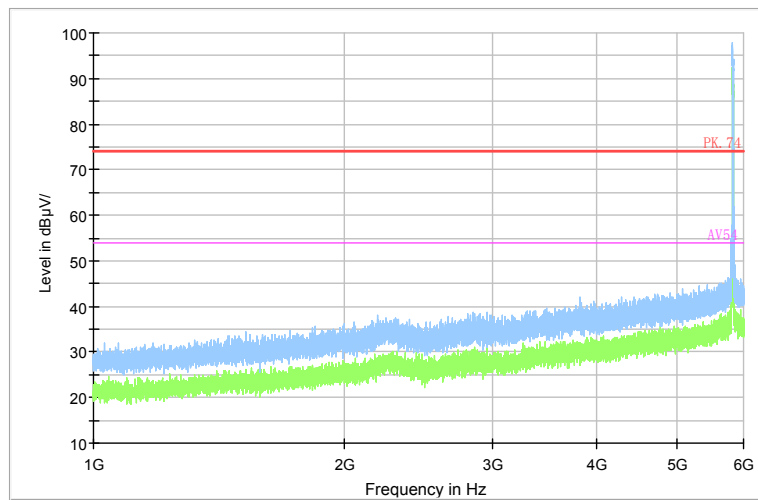
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11ac(VHT20)

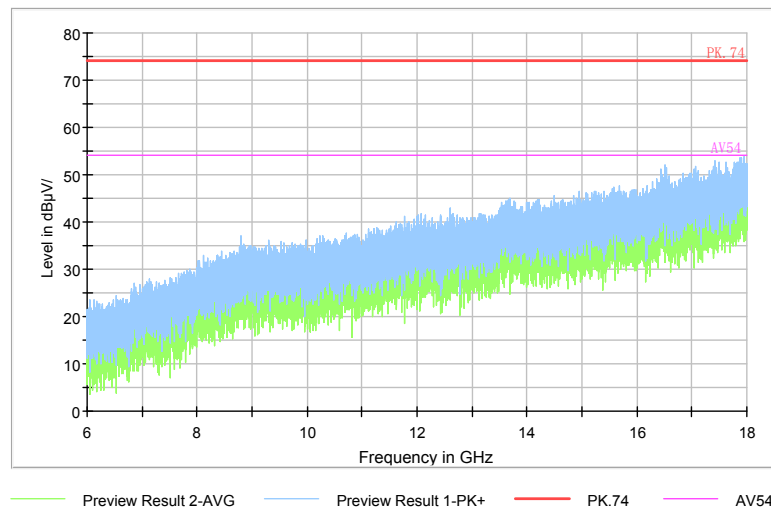
Full Spectrum



Comment

Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Test Mode: 802.11ac(VHT20)

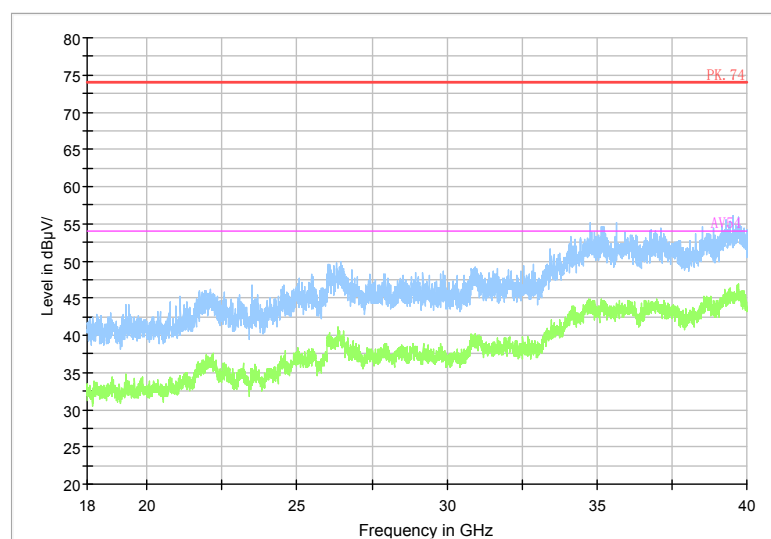
Full Spectrum



Comment

Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Test Mode: 802.11ac(VHT20)

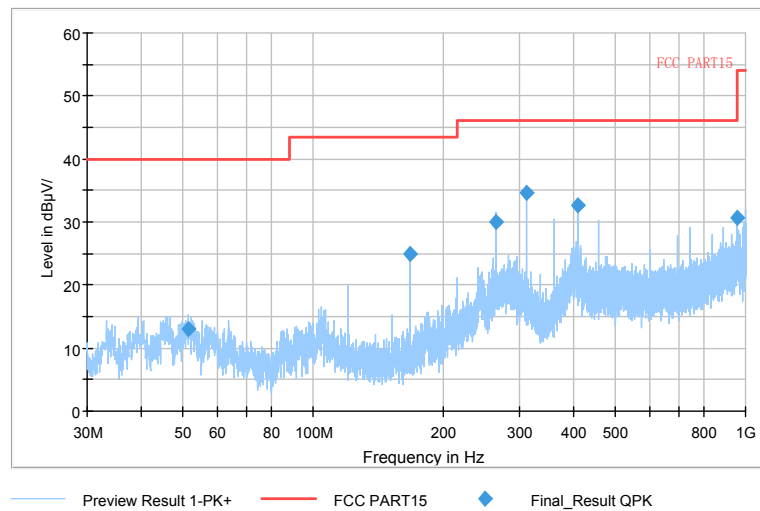
Full Spectrum



Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Test Mode: 802.11ac(VHT20)

Carrier frequency (MHz): 5755
Channel No.:151

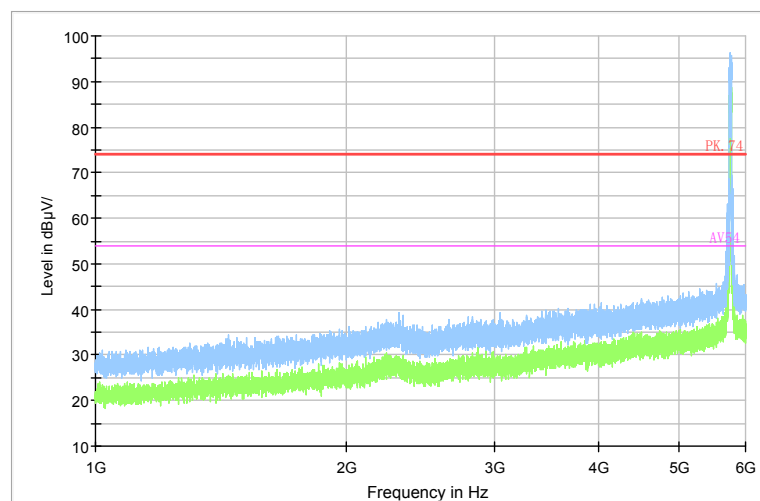
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT40)

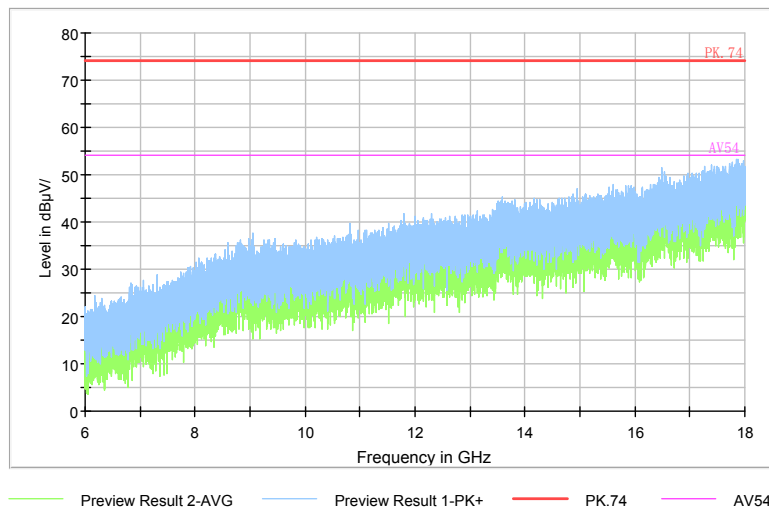
Full Spectrum



Comment

Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

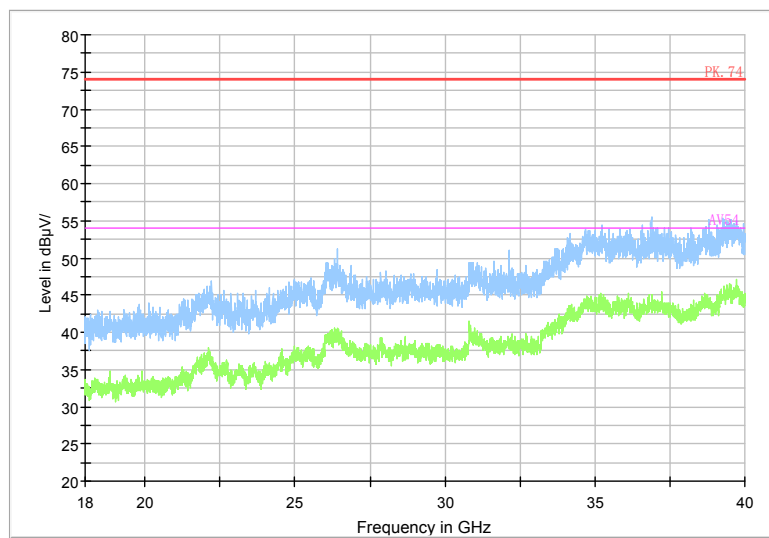
Full Spectrum



Comment

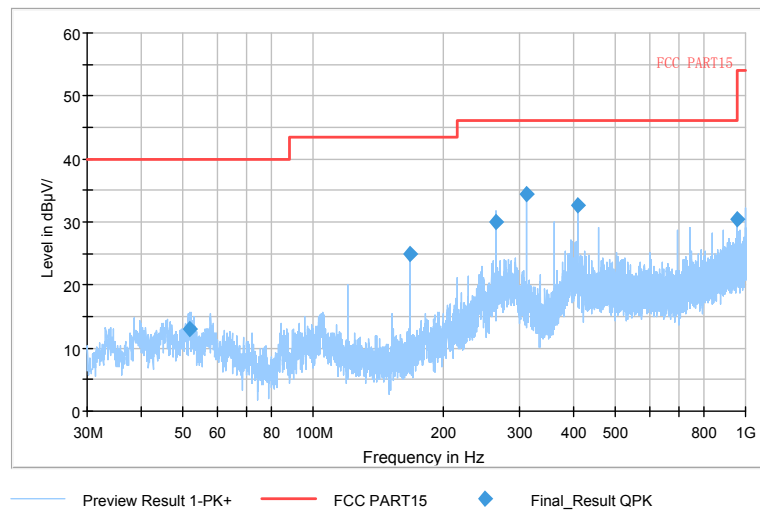
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

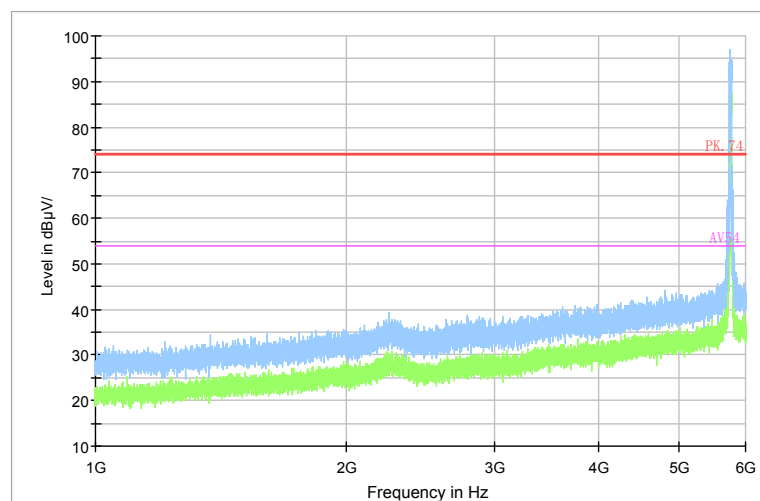
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11ac(VHT40)

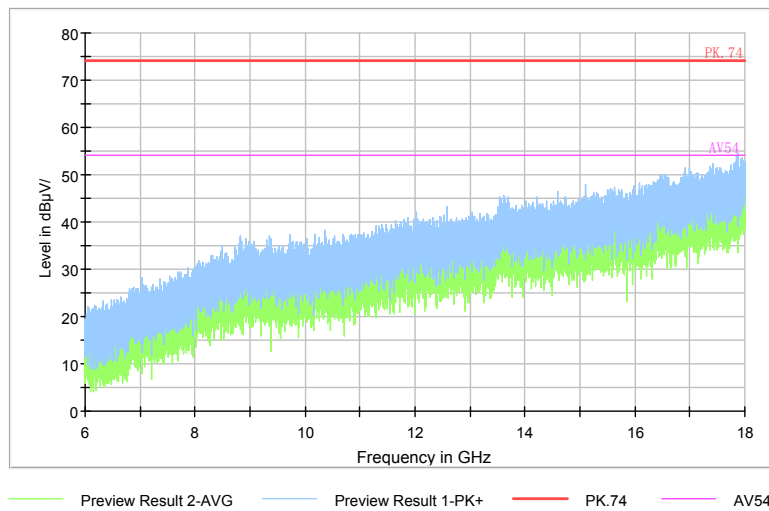
Full Spectrum



Comment

Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Test Mode: 802.11ac(VHT40)

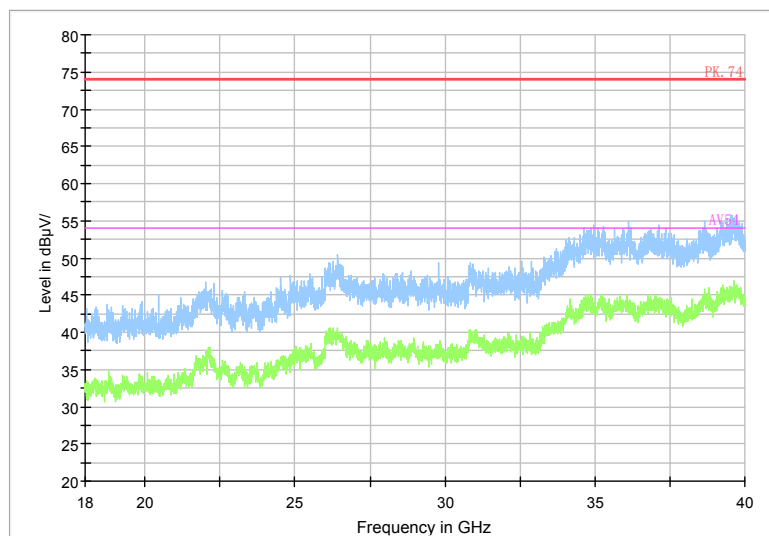
Full Spectrum



Comment

Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Test Mode: 802.11ac(VHT40)

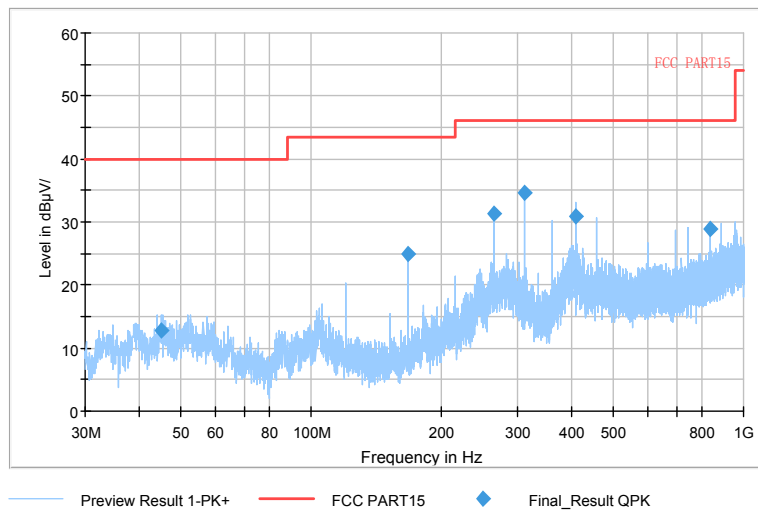
Full Spectrum



Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Test Mode: 802.11ac(VHT40)

Carrier frequency (MHz): 5795
Channel No.:159

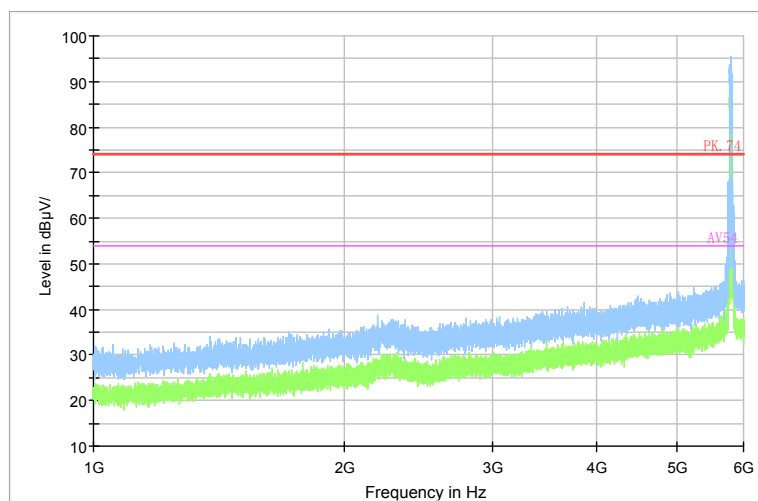
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT40)

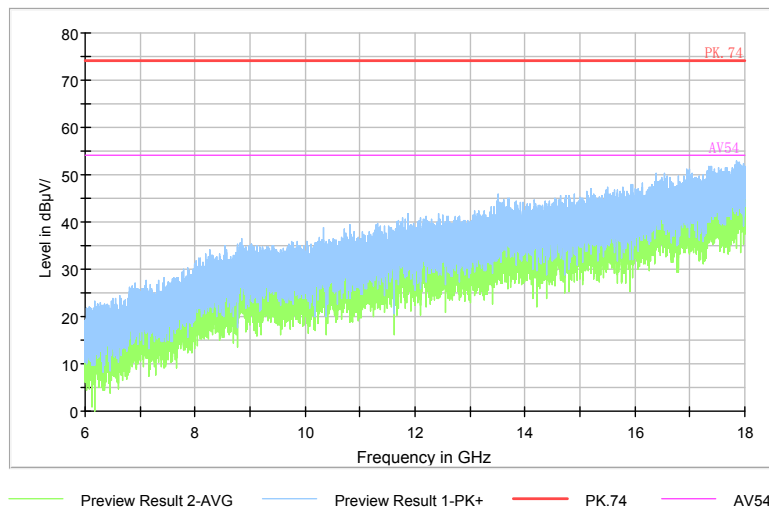
Full Spectrum



Comment

Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

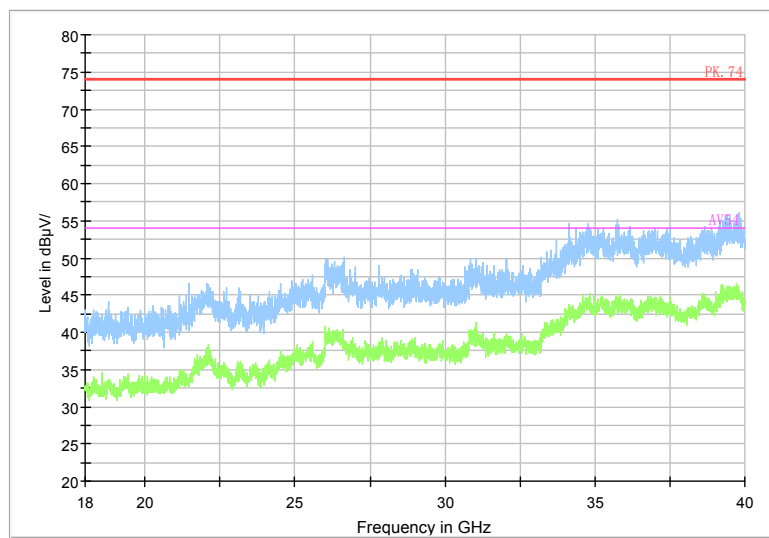
Full Spectrum



Comment

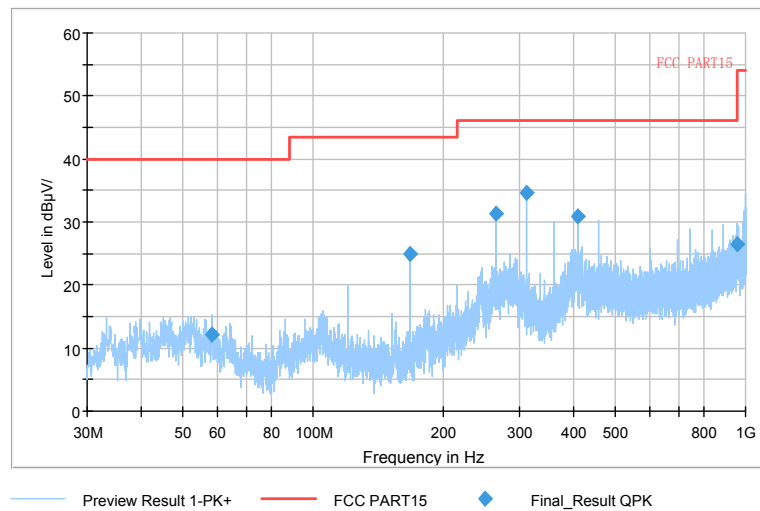
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

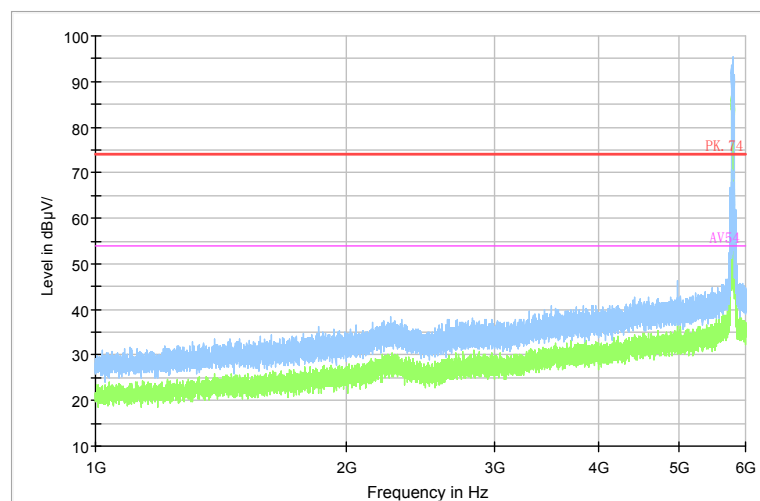
Full Spectrum



Comment

Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11ac(VHT40)

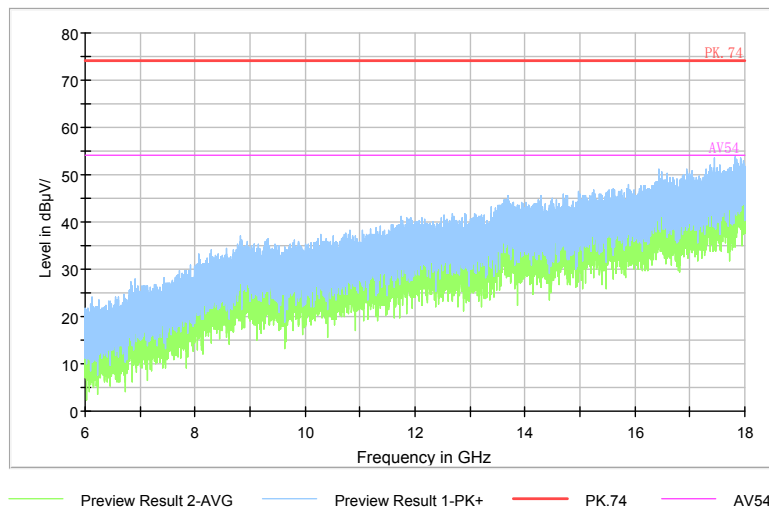
Full Spectrum



Comment

Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Test Mode: 802.11ac(VHT40)

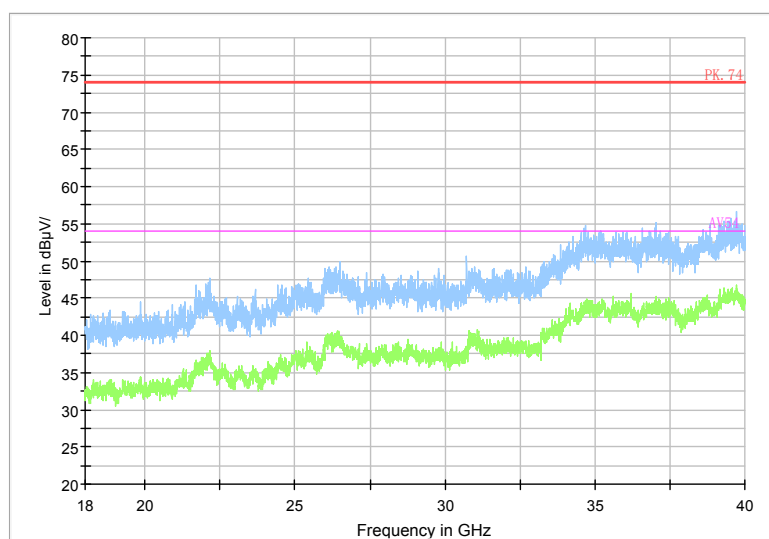
Full Spectrum



Comment

Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Test Mode: 802.11ac(VHT40)

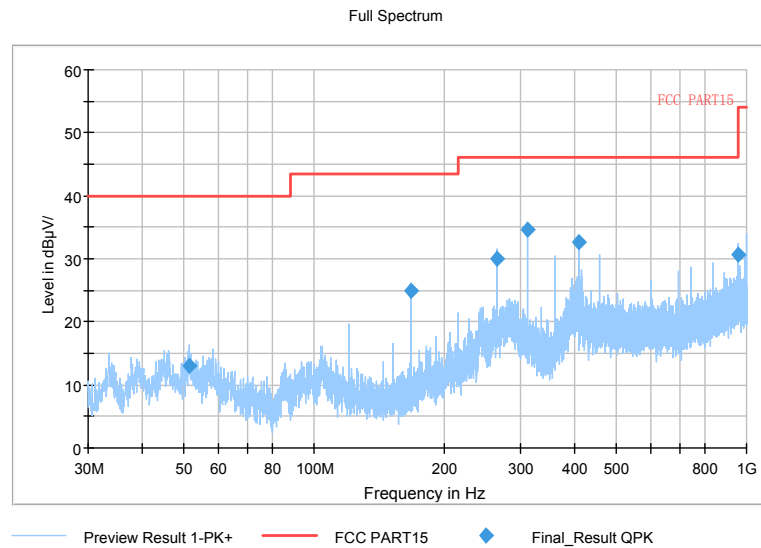
Full Spectrum



Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Test Mode: 802.11ac(VHT40)

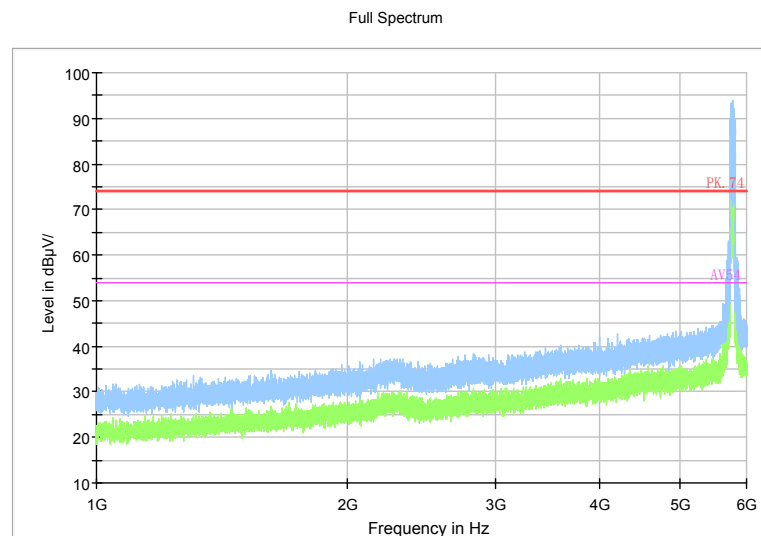
Carrier frequency (MHz): 5775

Channel No.:155



Comment

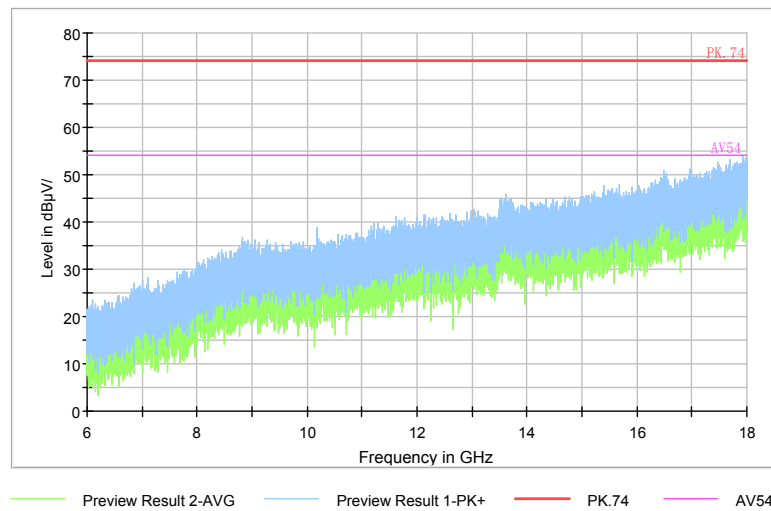
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11ac(VHT80)



Comment

Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Test Mode: 802.11ac(VHT80)

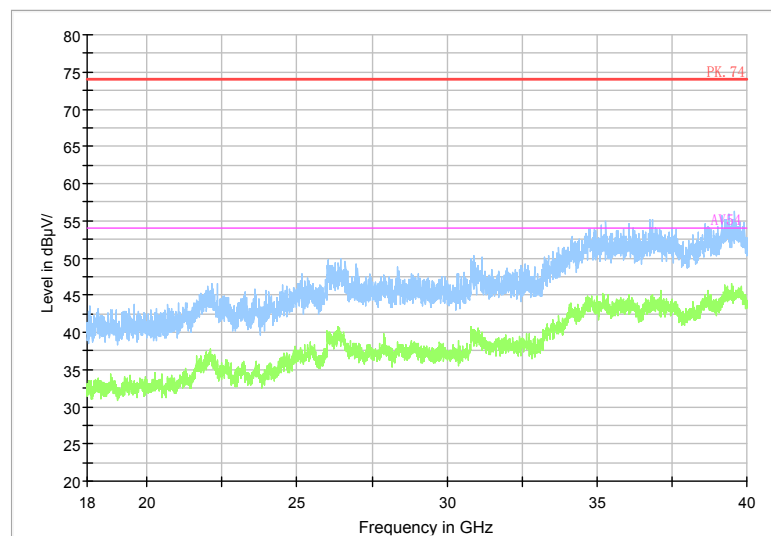
Full Spectrum



Comment

Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Test Mode: 802.11ac(VHT80)

Full Spectrum



Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Test Mode: 802.11ac(VHT80)

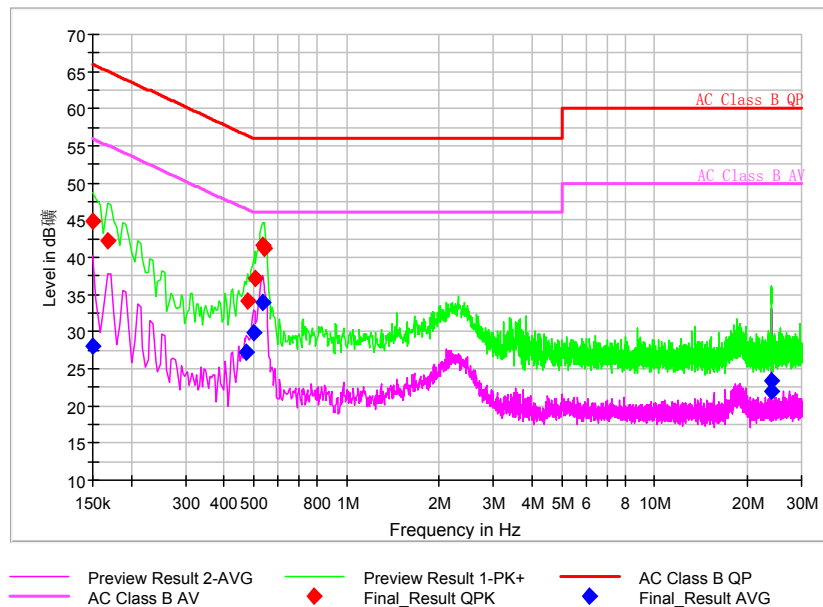
AC Power line Conducted Emission

A “reference path loss” Corr.(dB) is established and the $L_{\text{cable}} + \text{ATT} + \text{VDF}$ is the attenuation of “reference path loss”, and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

The measurement results are obtained as described below:

$$P_{\text{result}} = P_{\text{mea}} + \text{Corr. (dB)}$$

Sample calculation: $(28.00 \text{ dB}\mu\text{V}) = (-1.7 \text{ dB}\mu\text{V}) + (29.7 \text{ dB})$, the corresponding frequency is 0.150000MHz.



Comment

L+N Line

MEASUREMENT RESULT:

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pmea QuasiPeak (dBμV)	Pmea Average (dBμV)
0.150000	---	28.00	56.00	28.00	L1	29.7	---	-1.7
0.150000	44.80	---	66.00	21.20	L1	29.7	15.1	---
0.167057	42.32	---	65.11	22.79	L1	29.7	12.62	---
0.474086	---	27.16	46.44	19.28	L1	29.7	---	-2.54
0.478350	34.20	---	56.37	22.17	L1	29.7	4.5	---
0.499671	---	29.81	46.01	16.20	L1	29.7	---	0.11
0.503936	37.12	---	56.00	18.88	L1	29.7	7.42	---
0.533786	41.52	---	56.00	14.48	L1	29.7	11.82	---
0.533786	---	33.96	46.00	12.04	L1	29.7	---	4.26
0.542314	41.19	---	56.00	14.82	L1	29.7	11.49	---
23.983093	---	22.05	50.00	27.95	L1	30.5	---	-8.45
23.995886	---	23.40	50.00	26.60	L1	30.5	---	-7.1

variant product

test result

The measurement results are obtained as described below:

Measure Level = Reading Level + cable loss + antenna factor

Sample calculation: (93.68 dBuV/m) = 45.88 dBμV) + (12.4 dB) + (35.40dB/m), the corresponding frequency is 5180MHz.

The measurement results contain the correction factor of the duty cycle.

Carrier frequency (MHz): 5180 MHz

Channel No.:36

Test Mode: 802.11a

Polarity:Vertical

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB/m)
1	5180	93.68	45.88	N/A	N/A	12.40	35.40
2	5150	46.79	-1.01	-21.41	68.20	12.40	35.40

Carrier frequency (MHz): 5180

Channel No.:36

Test Mode: 802.11a

Polarity:Horizontal

Detector: Peak

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB/m)
1	5180	90.59	42.79	N/A	N/A	12.40	35.40
2	5150	42.76	-5.04	-25.44	68.20	12.40	35.40

Carrier frequency (MHz): 5180 MHz

Channel No.: 36

Test Mode: 802.11a

Polarity:Vertical

Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB/m)
1	5180	88.16	40.36	N/A	N/A	12.40	35.40
2	5150	36.85	-10.95	-17.15	54.00	12.40	35.40

Carrier frequency (MHz): 5180 MHz
Channel No.: 36
Test Mode: 802.11a
Polarity: Horizontal
Detector: Average

No	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	cable loss (dB)	antenna factor (dB/m)
1	5180	85.07	37.27	N/A	N/A	12.40	35.40
2	5150	31.48	-16.32	-22.52	54.00	12.40	35.40

Sample Calculations

Determining Spurious Emissions Levels

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

Result= $P_{mea} + A_{Rpl}$

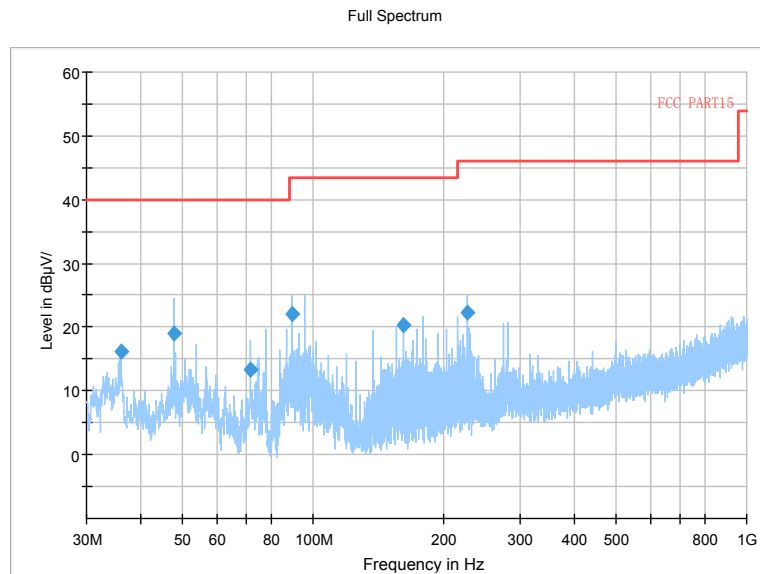
Sample calculation: (16.23 dBuV/m) = (35.83 dBuV) + (-19.6 dB/m), the corresponding frequency is 36.062500MHz.

The worst case attitude: The mobile lay down.

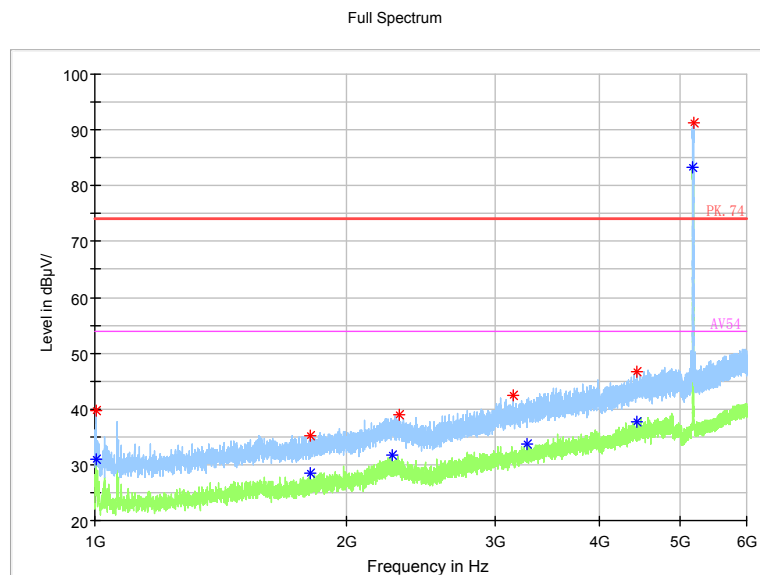
For 802.11a Channel No.:36

Frequency(MHz)	Result(dBuV/m)	A_{Rpl} (dB)	P_{mea} (dBuV/m)	Polarity	Limit (dBuV/m)
36.062500	16.23	-19.6	35.83	Vertical	40.00
47.751000	19.09	-17.7	36.79	Vertical	40.00
71.661500	13.43	-22.5	35.93	Vertical	40.00
89.606500	22.05	-21.4	43.45	Vertical	43.50
161.338000	20.32	-22.0	42.32	Vertical	43.50
227.055500	22.23	-18.1	40.33	Vertical	46.00

Carrier frequency (MHz): 5180
Channel No.:36

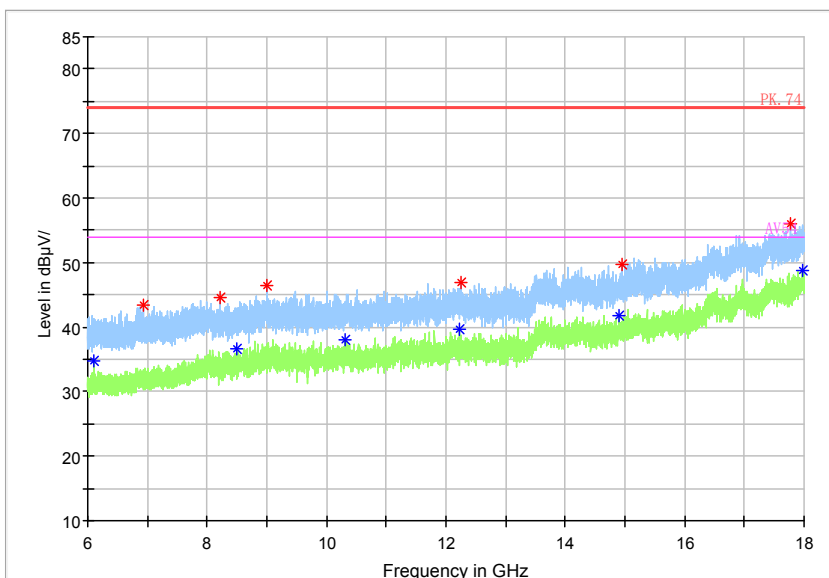


Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11a



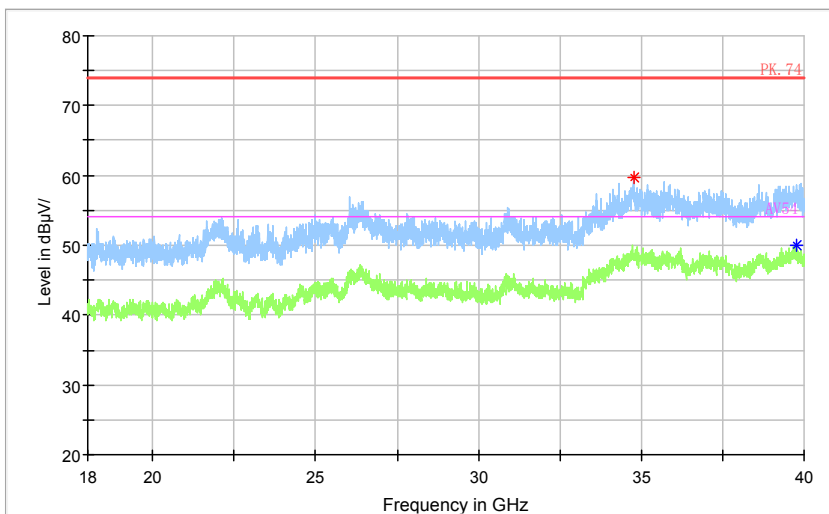
Frequency Range: 1GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11a

Full Spectrum



Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11a

Full Spectrum



Preview Result 2-AVG Critical_Freqs PK+ Final_Result PK+ Preview Result 1-PK+ PK.74 Final_Result AVG Critical_Freqs AVG AV54

Frequency Range: 18GHz -40GHz
Detector: Av mode and PK mode
Modulation type: 802.11a

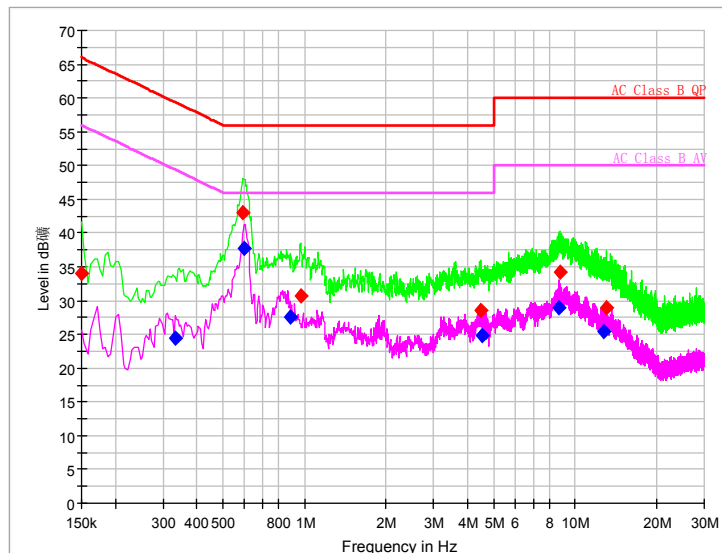
AC Power line Conducted Emission

A “reference path loss” Corr.(dB) is established and the $L_{\text{cable}} + \text{ATT} + \text{VDF}$ is the attenuation of “reference path loss”, and including the cable loss, the attenuation of the attenuator, the voltage division factor of AMN.

The measurement results are obtained as described below:

$$P_{\text{result}} = P_{\text{mea}} + \text{Corr. (dB)}$$

Sample calculation: $(34.12 \text{ dB}\mu\text{V}) = (4.52 \text{ dB}\mu\text{V}) + (29.6 \text{ dB})$, the corresponding frequency is 0.150000MHz.



L+N Line

MEASUREMENT RESULT:

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	Pme a Quas iPea k (dBμV)	Pme a Aver age (dBμV)
0.150000	34.12	---	66.00	31.88	L1	29.6	4.52	---
0.333364	---	24.50	49.37	24.86	L1	29.6	---	-5.1
0.593486	43.02	---	56.00	12.98	L1	29.6	13.4	---
0.597750	---	37.74	46.00	8.26	L1	29.6	---	8.14
0.883457	---	27.64	46.00	18.36	L1	29.7	---	-2.06
0.968743	30.69	---	56.00	25.31	L1	29.7	0.99	---
4.499571	28.54	---	56.00	27.46	L1	29.7	-1.16	---
4.520893	---	24.93	46.00	21.07	L1	29.7	---	-4.77
8.687100	---	28.87	50.00	21.13	L1	29.7	---	-0.83
8.755329	34.23	---	60.00	25.77	L1	29.7	4.53	---
12.691264	---	25.52	50.00	24.48	L1	29.8	---	-4.28
13.109164	28.85	---	60.00	31.15	L1	29.8	-0.95	---

---The end of the test report---