

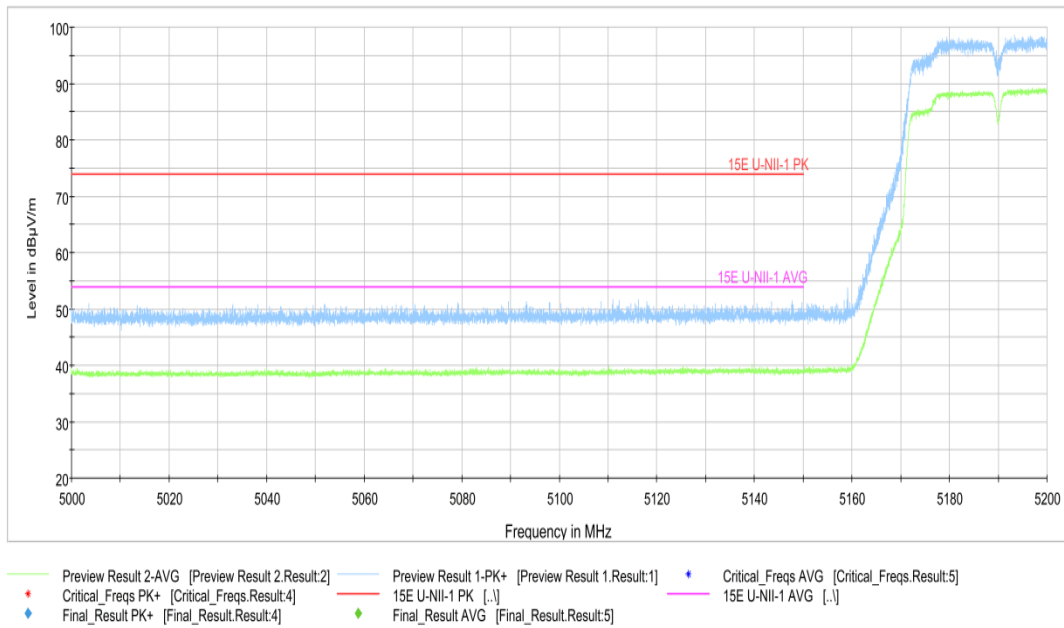


Fig.71 Band Edges (802.11ac-HT40, 5190MHz)

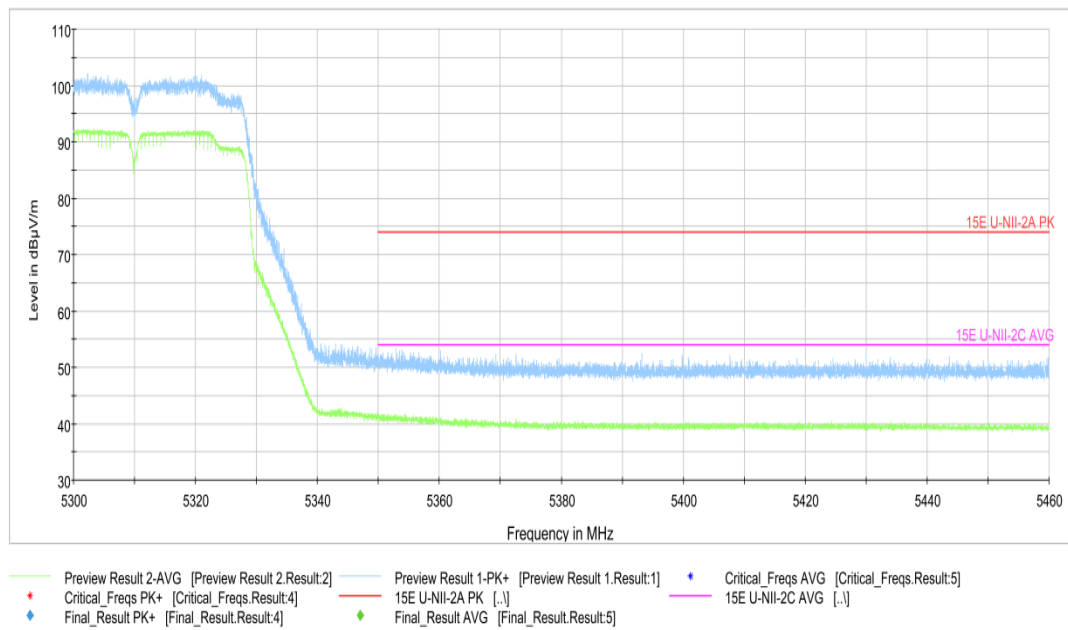


Fig.72 Band Edges (802.11ac-HT40, 5310MHz)

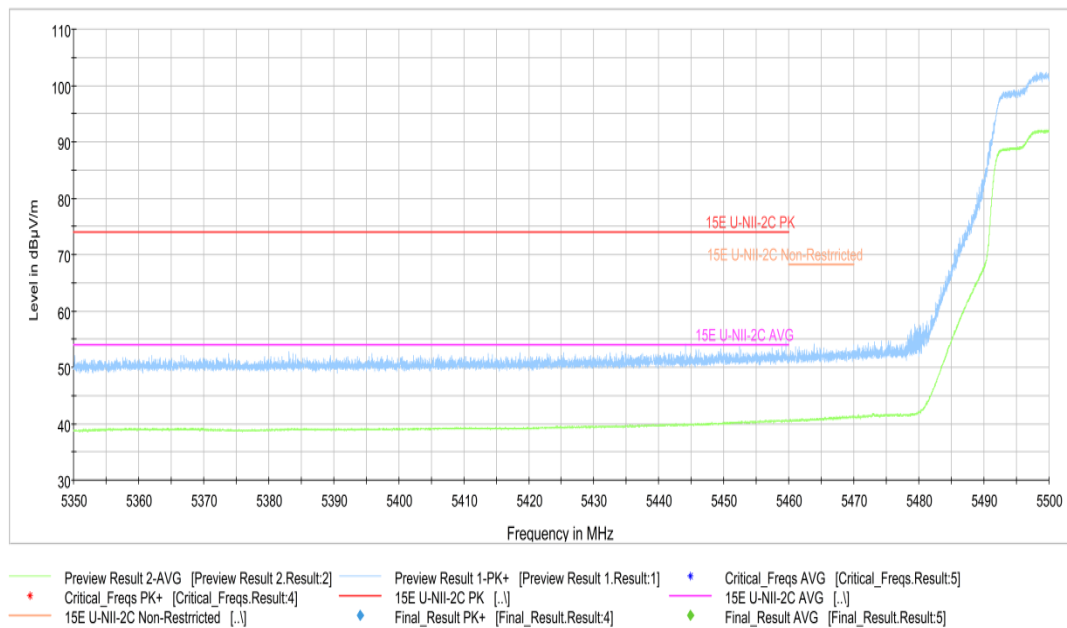


Fig.73 Band Edges (802.11ac-HT40, 5510MHz)

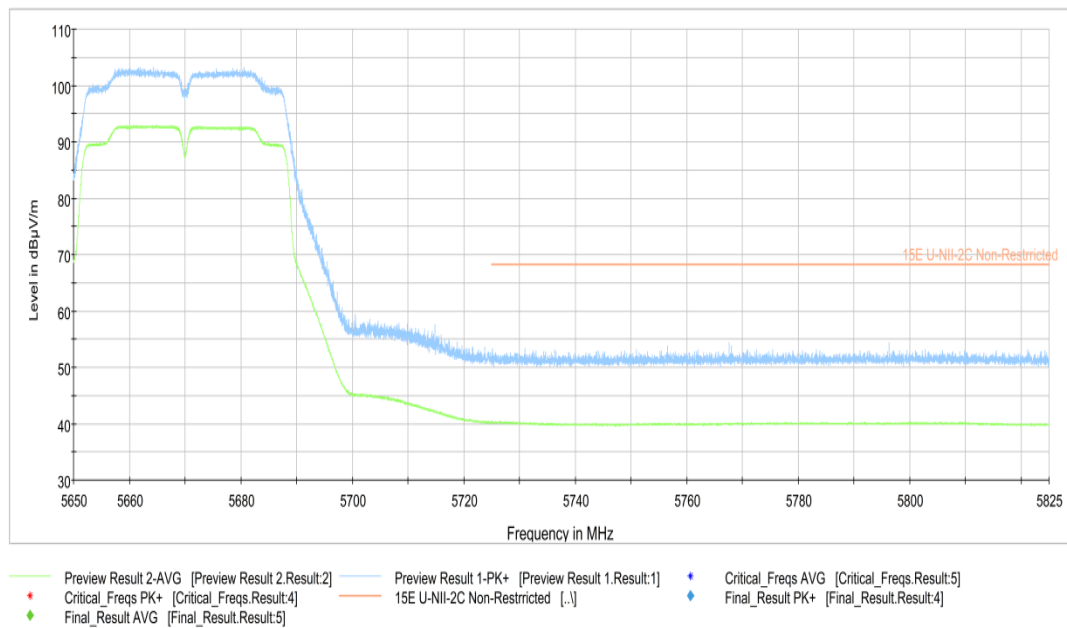


Fig.74 Band Edges (802.11ac-HT40, 5670MHz)

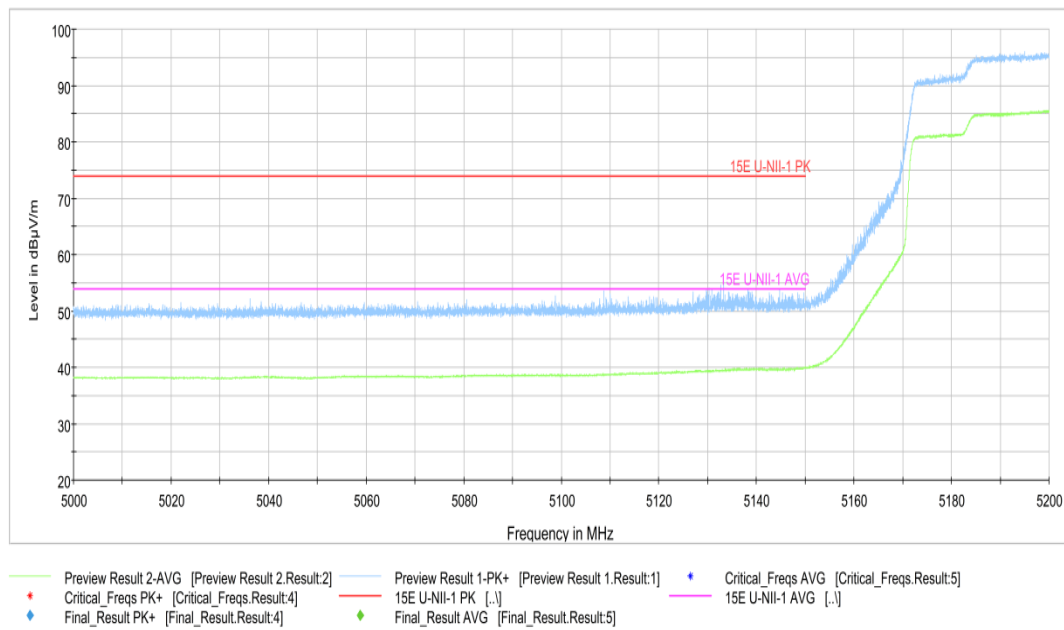


Fig.75 Band Edges (802.11ac-HT80, 5210MHz)

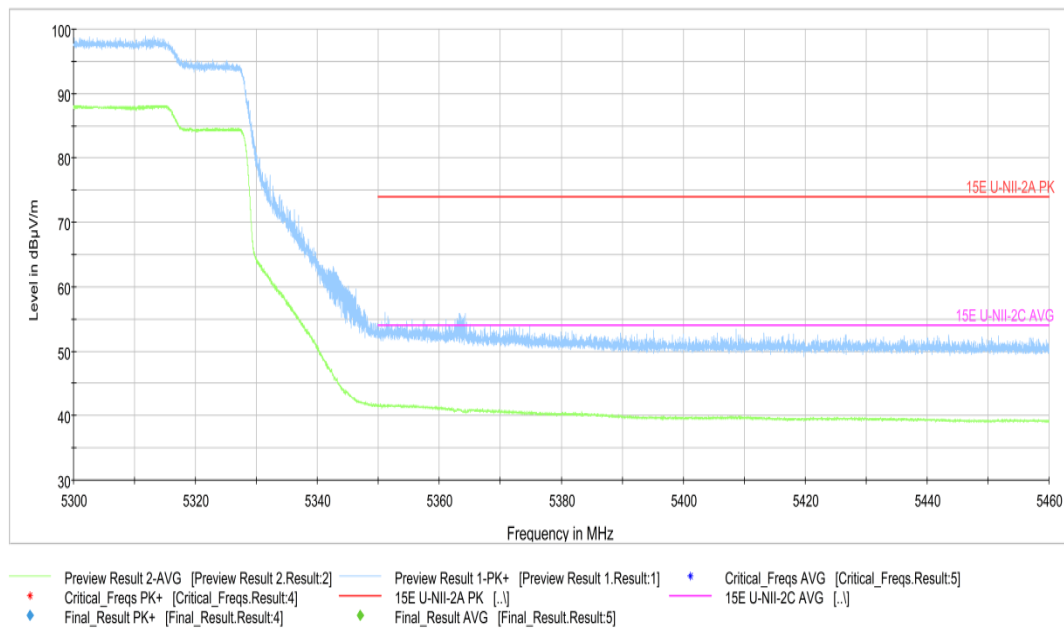


Fig.76 Band Edges (802.11ac-HT80, 5290MHz)

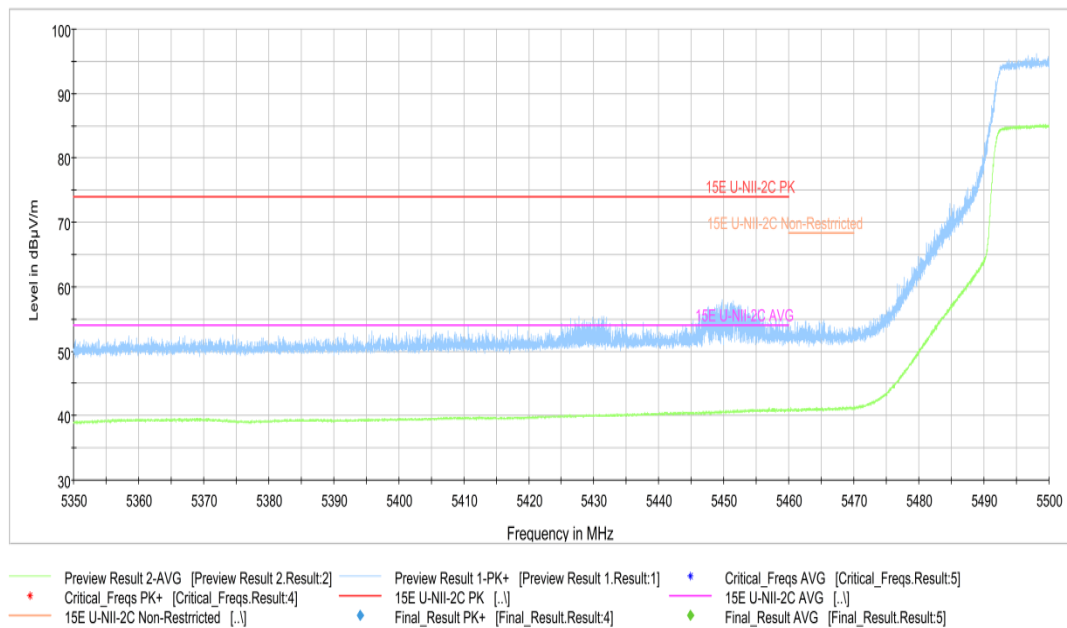


Fig.77 Band Edges (802.11ac-HT80, 5530MHz)

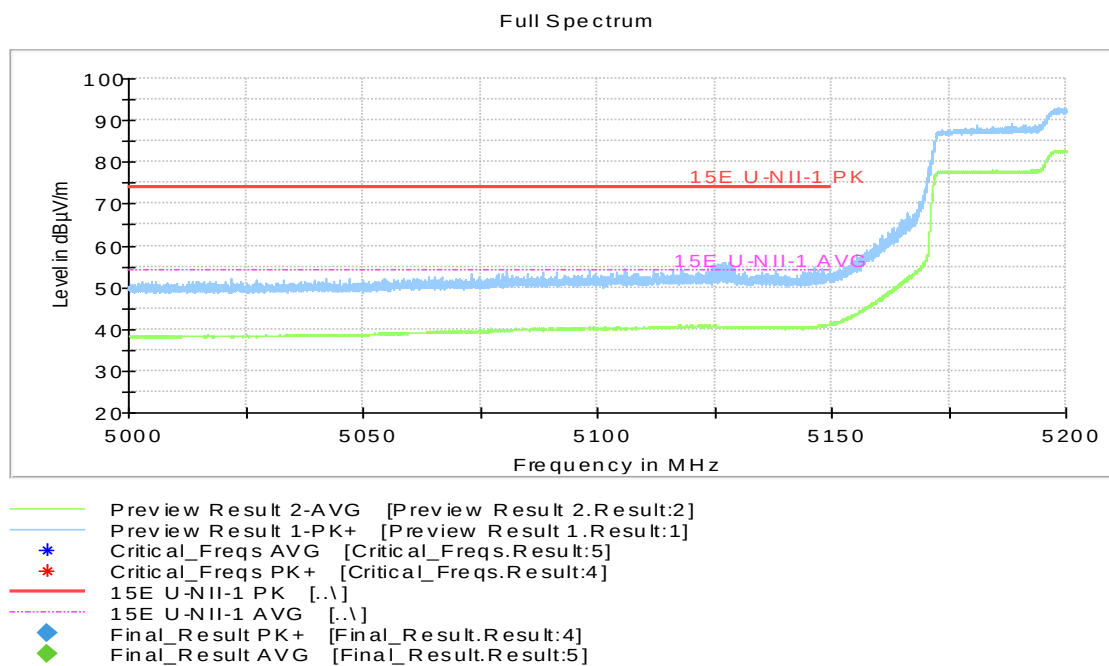
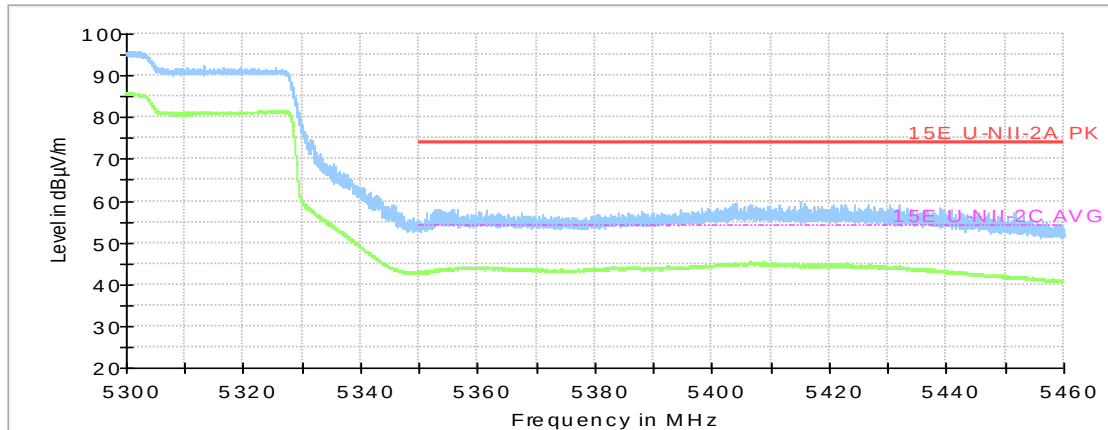


Fig.78 Band Edges (802.11ac-HT160, 5250MHz)

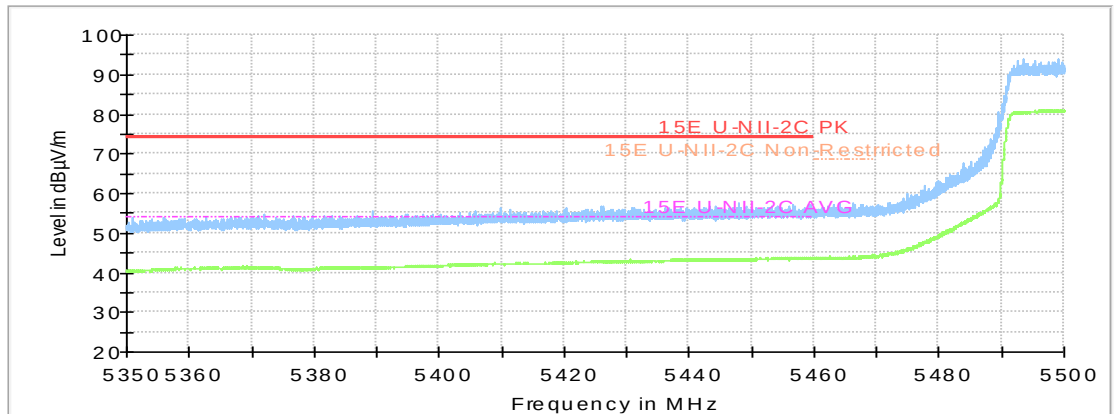
Full Spectrum



- Preview Result 2-AVG [Preview Result 2.Result:2]
- Preview Result 1-PK+ [Preview Result 1.Result:1]
- Critical_Freqs AVG [Critical_Freqs.Result:5]
- Critical_Freqs PK+ [Critical_Freqs.Result:4]
- 15E U-NII-2A PK [..]
- 15E U-NII-2C AVG [..]
- Final_Result PK+ [Final_Result.Result:4]
- Final_Result AVG [Final_Result.Result:5]

Fig.79 Band Edges (802.11ac-HT160, 5250MHz)

Full Spectrum



- Preview Result 2-AVG [Preview Result 2.Result:2]
- Preview Result 1-PK+ [Preview Result 1.Result:1]
- Critical_Freqs AVG [Critical_Freqs.Result:5]
- Critical_Freqs PK+ [Critical_Freqs.Result:4]
- 15E U-NII-2C PK [..]
- 15E U-NII-2C AVG [..]
- 15E U-NII-2C Non-Restricted [..]
- Final_Result PK+ [Final_Result.Result:4]
- Final_Result AVG [Final_Result.Result:5]

Fig.80 Band Edges (802.11ac-HT160, 5570MHz)

C.2. AC Power-line Conducted Emission

Reference

FCC 47 CFR Part 15, Clause 15.407 Clause 15.207

Method of Measurement:

See ANSI C63.10-2013 specifically.

See ANSI C63.10-2013 generally.

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

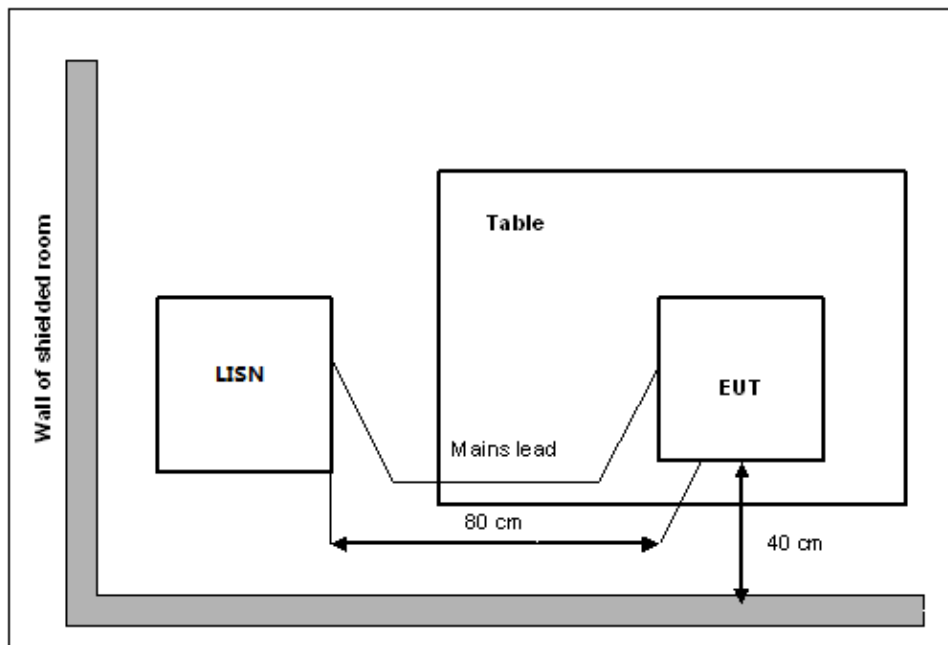
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth	Sweep Time(s)
0.15-30	9kHz	1

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Setup



EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state.

The EUT is powered by an travel adapter.

Measurement Result and limit:
WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.C.2.1	Fig.C.2.2	P
0.5 to 5	56			
5 to 30	60			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.C.2.1	Fig.C.2.2	P
0.5 to 5	46			
5 to 30	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Note: all modes have been tested and the worst results shown here.

Conclusion: Pass

Test graphs as below:

Traffic:

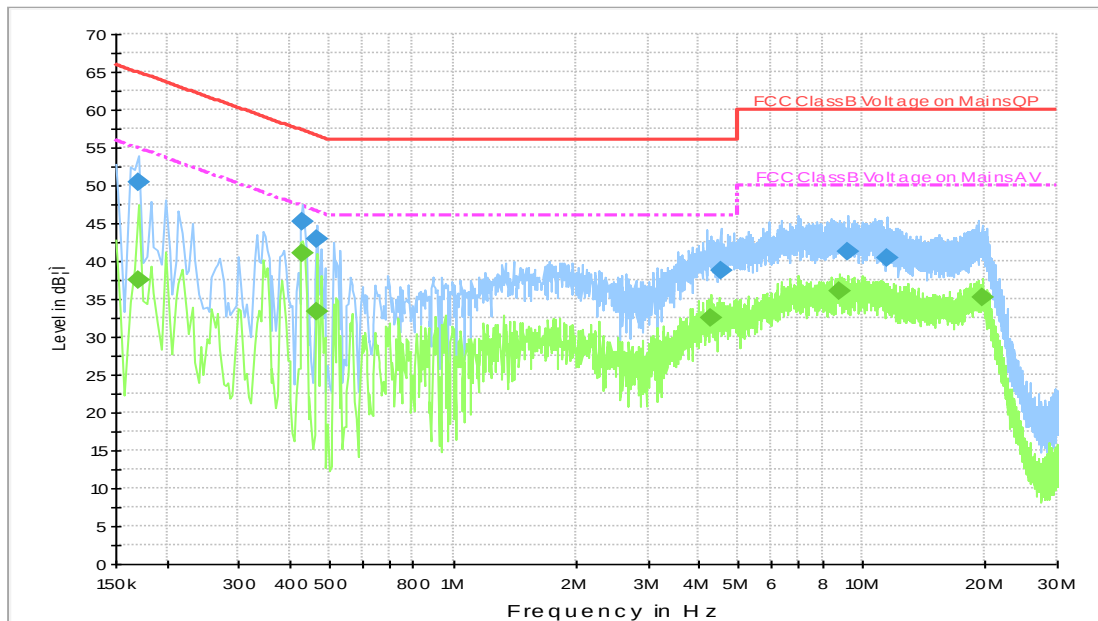


Fig.C.2.1 AC Powerline Conducted Emission-802.11a

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.170000	50.5	2000.	9.000	N	19.7	14.5	65.0
0.430000	45.2	2000.	9.000	L1	19.9	12.0	57.3
0.466000	43.0	2000.	9.000	N	20.0	13.6	56.6
4.506000	38.7	2000.	9.000	N	19.7	17.3	56.0
9.250000	41.3	2000.	9.000	N	19.7	18.7	60.0
11.570000	40.5	2000.	9.000	N	19.7	19.5	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.170000	37.5	2000.0	9.000	N	19.7	17.4	55.0
0.430000	41.0	2000.0	9.000	L1	19.9	6.3	47.3
0.466000	33.3	2000.0	9.000	N	20.0	13.3	46.6
4.286000	32.4	2000.0	9.000	N	19.7	13.6	46.0
8.838000	36.1	2000.0	9.000	N	19.8	13.9	50.0
19.650000	35.1	2000.0	9.000	N	19.9	14.9	50.0

Idle:

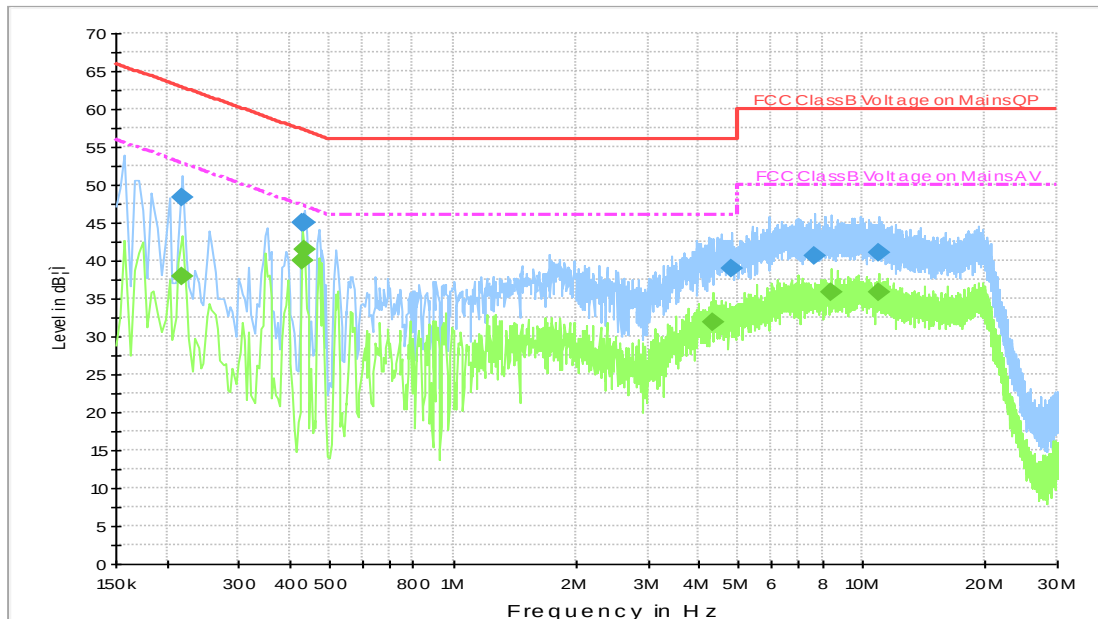


Fig.C.2.2 AC Powerline Conducted Emission-Idle

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.218000	48.4	2000.	9.000	L1	20.0	14.5	62.9
0.430000	44.9	2000.	9.000	L1	19.9	12.3	57.3
0.434000	45.1	2000.	9.000	L1	19.9	12.1	57.2
4.810000	39.0	2000.	9.000	N	19.8	17.0	56.0
7.650000	40.7	2000.	9.000	N	19.7	19.3	60.0
11.054000	41.1	2000.	9.000	N	19.7	18.9	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.218000	38.0	2000.0	9.000	L1	20.0	14.9	52.9
0.430000	40.0	2000.0	9.000	L1	19.9	7.2	47.3
0.434000	41.5	2000.0	9.000	L1	19.9	5.6	47.2
4.302000	31.9	2000.0	9.000	N	19.7	14.1	46.0
8.394000	35.9	2000.0	9.000	N	19.7	14.1	50.0
11.054000	35.7	2000.0	9.000	N	19.7	14.3	50.0

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