



Traffic:



Fig.58 AC Powerline Conducted Emission-Traffic

Frequency	QuasiPeak	Meas.	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)		(dB)	(dB)	(dBµV)
		(ms)					
0.154500	59.0	1000.	9.000	19.6	6.8	65.8	0.1545
0.168000	58.1	1000.	9.000	19.7	6.9	65.1	0.1680
0.199500	55.6	1000.	9.000	19.6	8.0	63.6	0.1995
0.217500	55.0	1000.	9.000	19.7	7.9	62.9	0.2175
0.235500	54.4	1000.	9.000	19.7	7.9	62.3	0.2355
0.316500	49.5	1000.	9.000	19.7	10.2	59.8	0.3165

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line. **Final Result 1**

Final Result 2

Frequency	Average	Meas.	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)		(dB)	(dB)	(dBµV)
		(ms)					
0.487500	33.8	1000.0	9.000	L1	19.8	18.4	46.2
0.555000	40.4	1000.0	9.000	L1	19.8	5.6	46.0
1.324500	31.8	1000.0	9.000	L1	19.7	14.2	46.0
1.765500	26.3	1000.0	9.000	L1	19.7	19.7	46.0
2.256000	30.8	1000.0	9.000	L1	19.6	15.2	46.0
2.809500	31.9	1000.0	9.000	L1	19.7	14.1	46.0





Idle:



Fig.59 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	QuasiPeak	Meas.	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)		(dB)	(dB)	(dBµV)
		(ms)					
0.199500	57.8	1000.	9.000	L1	19.6	5.8	63.6
0.208500	56.3	1000.	9.000	Ν	19.6	7.0	63.3
0.217500	56.8	1000.	9.000	Ν	19.7	6.2	62.9
0.231000	56.4	1000.	9.000	Ν	19.7	6.0	62.4
0.249000	55.3	1000.	9.000	L1	19.7	6.5	61.8
0.334500	50.2	1000.	9.000	Ν	19.7	9.2	59.3

Final Result 2

Frequency	Average	Meas.	Bandwidth	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)		(dB)	(dB)	(dBµV)
		(ms)					
0.537000	36.1	1000.0	9.000	L1	19.8	9.9	46.0
0.600000	34.1	1000.0	9.000	L1	19.7	11.9	46.0
1.324500	27.6	1000.0	9.000	L1	19.7	18.4	46.0
1.855500	28.0	1000.0	9.000	L1	19.7	18.0	46.0
2.332500	28.7	1000.0	9.000	L1	19.6	17.3	46.0
2.877000	27.8	1000.0	9.000	L1	19.7	18.2	46.0





A.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

d) Step a) through step c) might require iteration to adjust within the specified range.

e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Measurement Uncertainty:

Measurement Uncertainty 60.80Hz	Measurement Uncertainty	60.80Hz
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Mode	Frequency	99% Occupie (N	conclusion		
	5180 MHz	Fig.60	17.48	Р	
802.11a	5200 MHz	Fig.61	17.52	Р	
	5240 MHz	Fig.62	17.56	Р	
000.44	5180 MHz	Fig.63	18.28	Р	
802.110	5200 MHz	Fig.64	18.40	Р	
HIZU	5240 MHz	Fig.65	18.40	Р	
802.11ac	5190 MHz	Fig.66	36.24	Р	
HT40	5230 MHz	Fig.67	36.32	Р	
802.11ac			75 50	D	
HT80	SZ I U MHZ	F19.68	/ 5.52		

Measurement Result:





Conclusion: PASS Test graphs as below:







Fig.61 99% Occupied bandwidth (802.11a, 5200MHz)







Fig.62 99% Occupied bandwidth (802.11a, 5240MHz)



Fig.63 99% Occupied bandwidth (802.11n-HT20, 5180MHz)







Fig.64 99% Occupied bandwidth (802.11n-HT20, 5200MHz)



Fig.65 99% Occupied bandwidth (802.11n-HT20, 5240MHz)







Fig.66 99% Occupied bandwidth (802.11ac-HT40, 5190MHz)



Fig.67 99% Occupied bandwidth (802.11ac-HT40, 5230MHz)







Fig.68 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)

A.9. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500 mW).

ANNEX B: EUT parameters

Disclaimer: the worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.





ANNEX C: Accreditation Certificate



*** END OF REPORT BODY ***