

**MODELS: FR-CS80**

**TITLE: EMC DATA EXAMPLE (FR-CS80)**

EMC data example when using general purpose inverter FR-CS80

**Conditions**

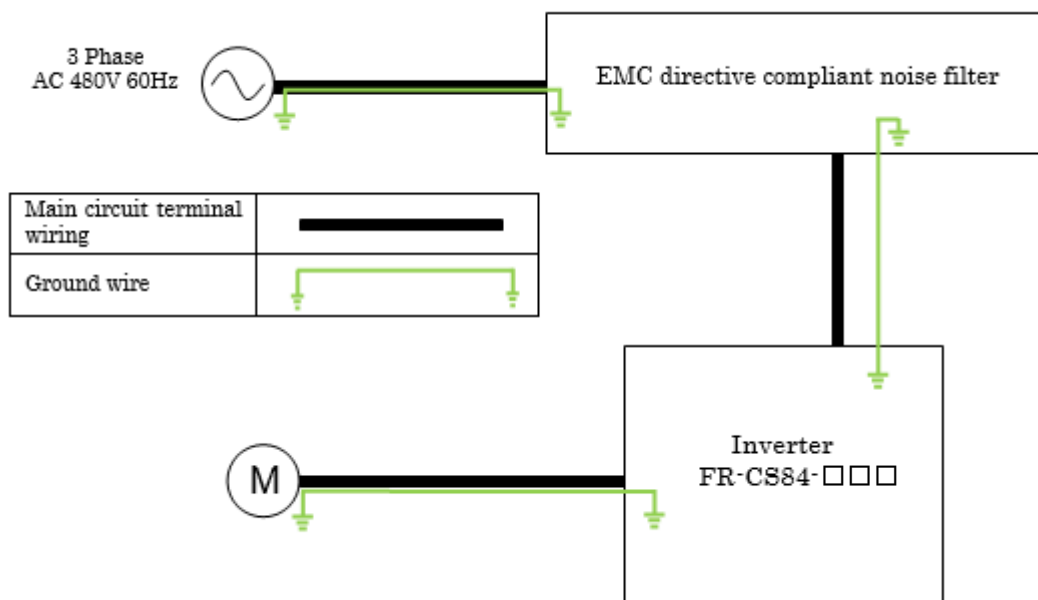
Inverter and multi-function regenerative converter conform to EN61800-3 product standard.  
 Measurement conditions were based on 2nd Environment Category C3 as described in EN61800-3.

Output interconnection (motor) length : 20m

Output cable type : Shielded cable

Inverter frequency : 30Hz

Carrier frequency : Indicated above each graph



EMC directive compliant noise filters are used

Inverter model	Filter model
FR-CS84-022	FR-E5NF-H0.75K
FR-CS84-080	
FR-CS84-160	FR-E5NF-H7.5K
FR-CS84-295	SF1175
FR-CS82S-042	SF1306
FR-CS82S-100	FR-S5NFSA-1.5K

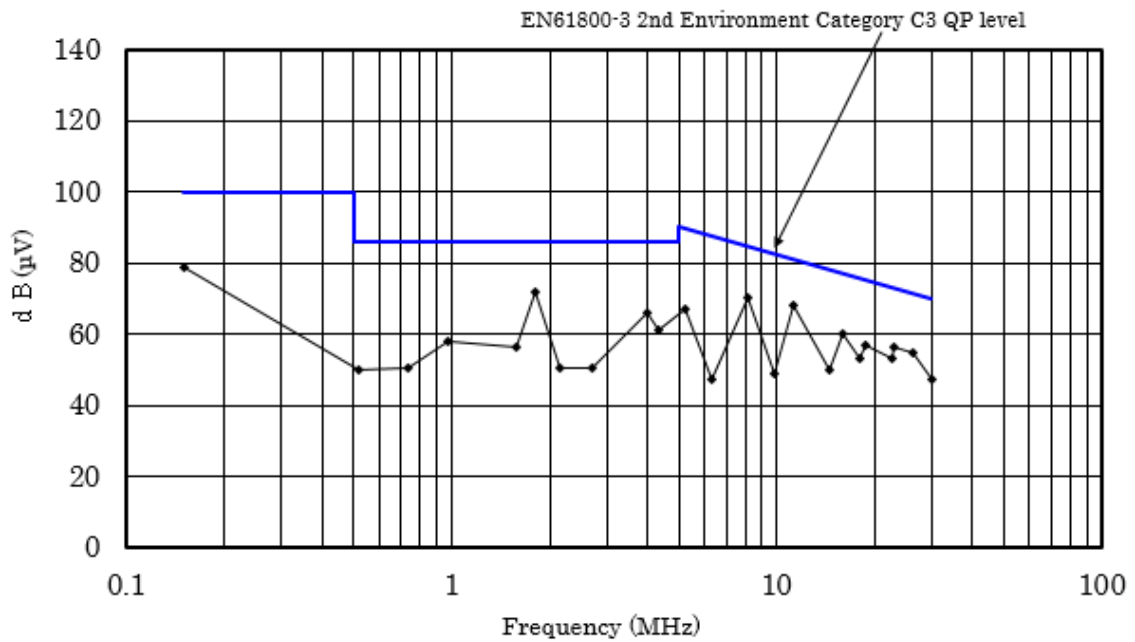
**EXAMPLE OF MEASUREMENT RESULTS**

**MODELS: FR-CS80**

**FR-CS84-022**

◆ Conducted noise

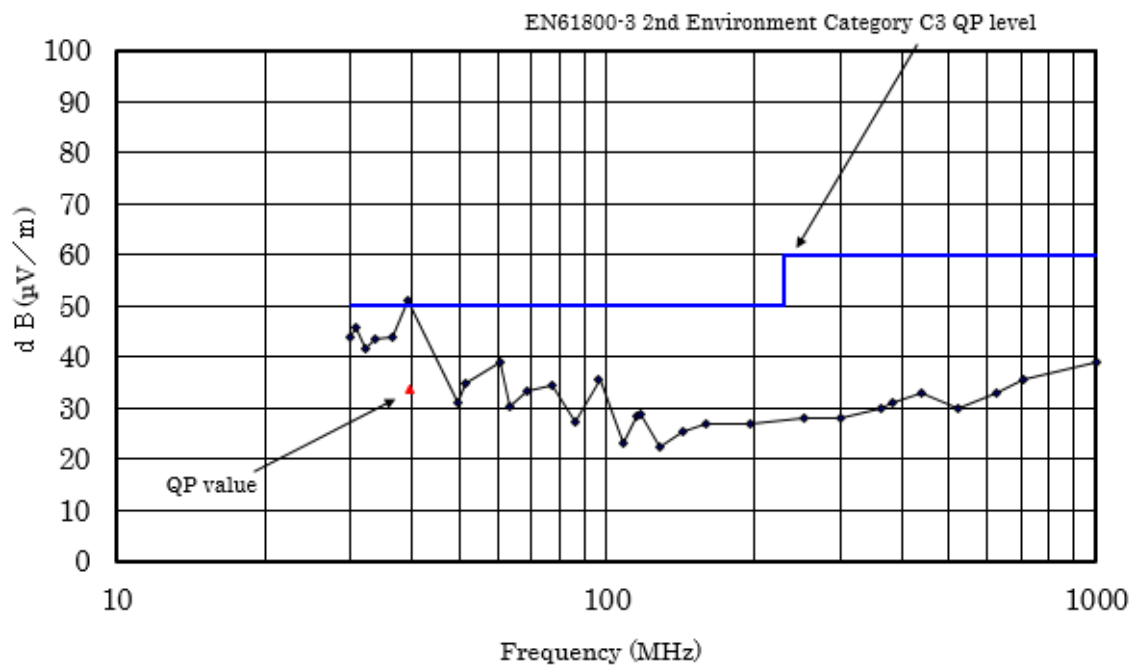
FR-CS84-022 (Carrier frequency : 12kHz)



(Note) The QP value will not exceed the peak value

◆ Radiated noise

FR-CS84-022 (Carrier frequency : 12kHz)

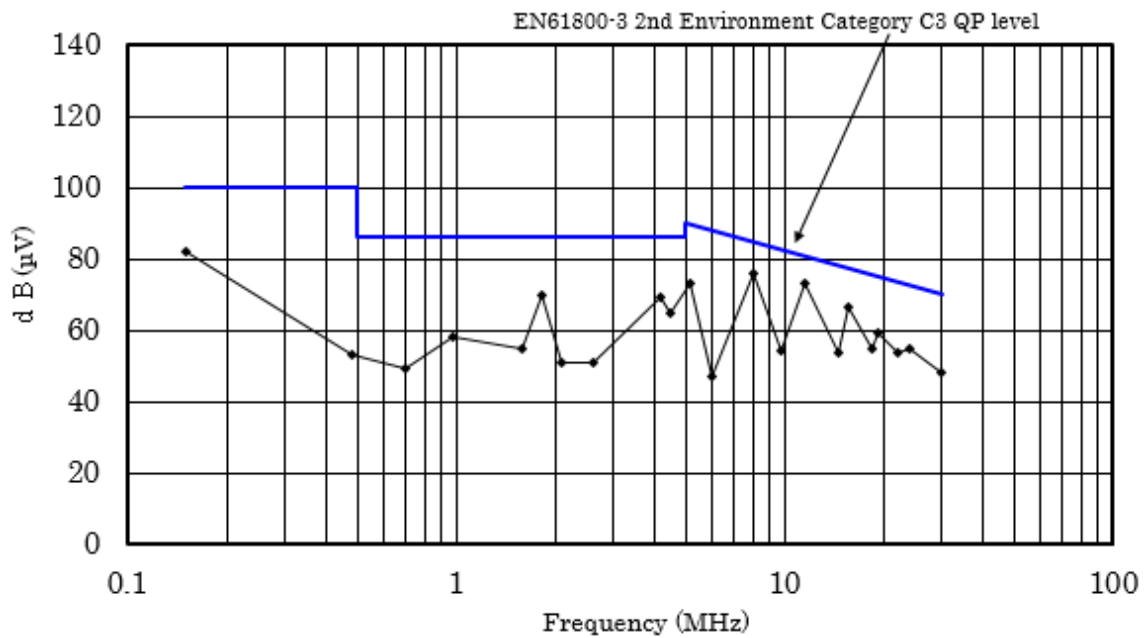


(Note) The QP value will not exceed the peak value

**MODELS: FR-CS80**  
**FR-CS84-080**

◆ Conducted noise

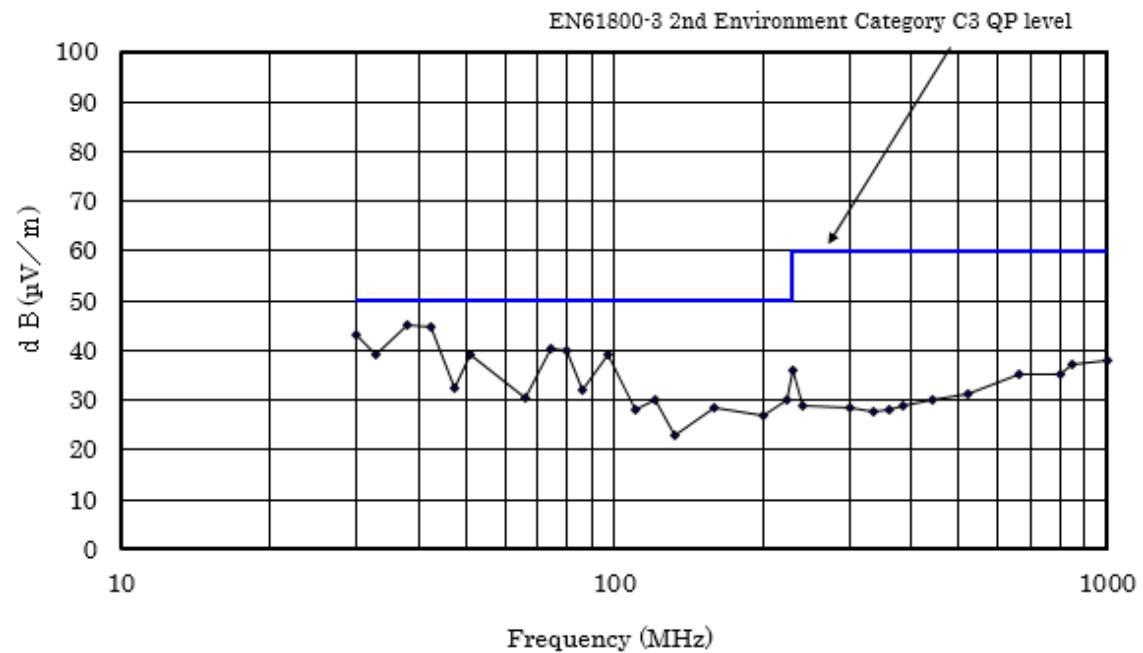
FR-CS84-080 (Carrier frequency : 12kHz)



(Note) The QP value will not exceed the peak value

◆ Radiated noise

FR-CS84-080 (Carrier frequency : 12kHz)



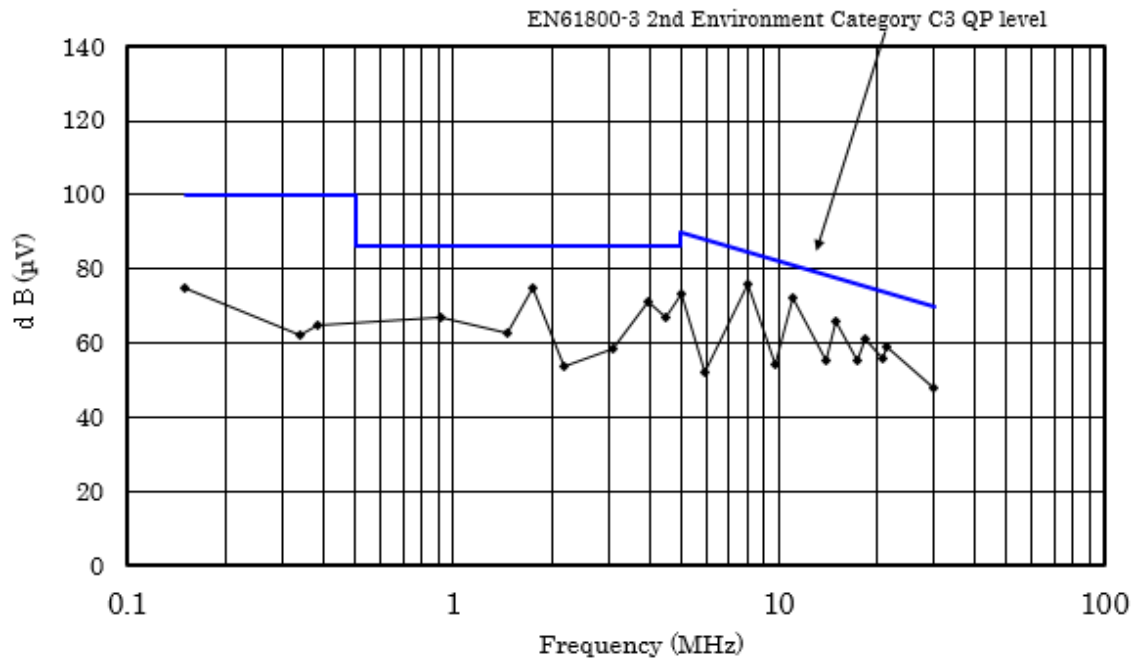
(Note) The QP value will not exceed the peak value

**MODELS: FR-CS80**

**FR-CS84-160**

◆ Conducted noise

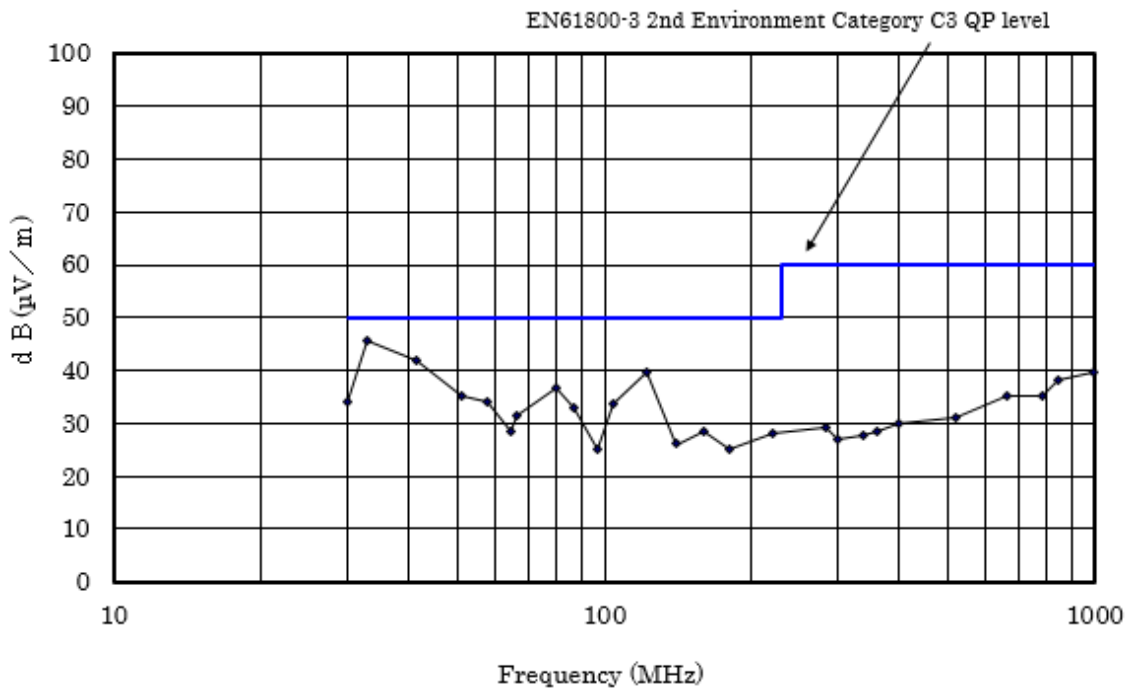
FR-CS84-160 (Carrier frequency : 12kHz)



(Note) The QP value will not exceed the peak value

◆ Radiated noise

FR-CS84-160 (Carrier frequency : 12kHz)



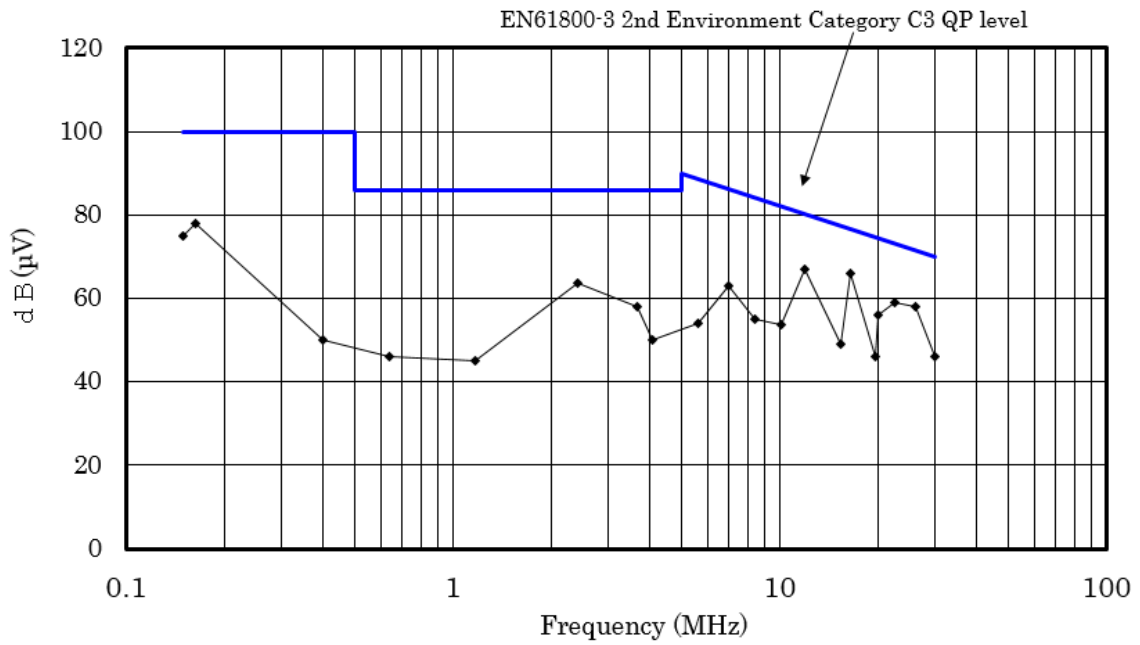
(Note) The QP value will not exceed the peak value

**MODELS: FR-CS80**

**FR-CS84-295**

◆ Conducted noise

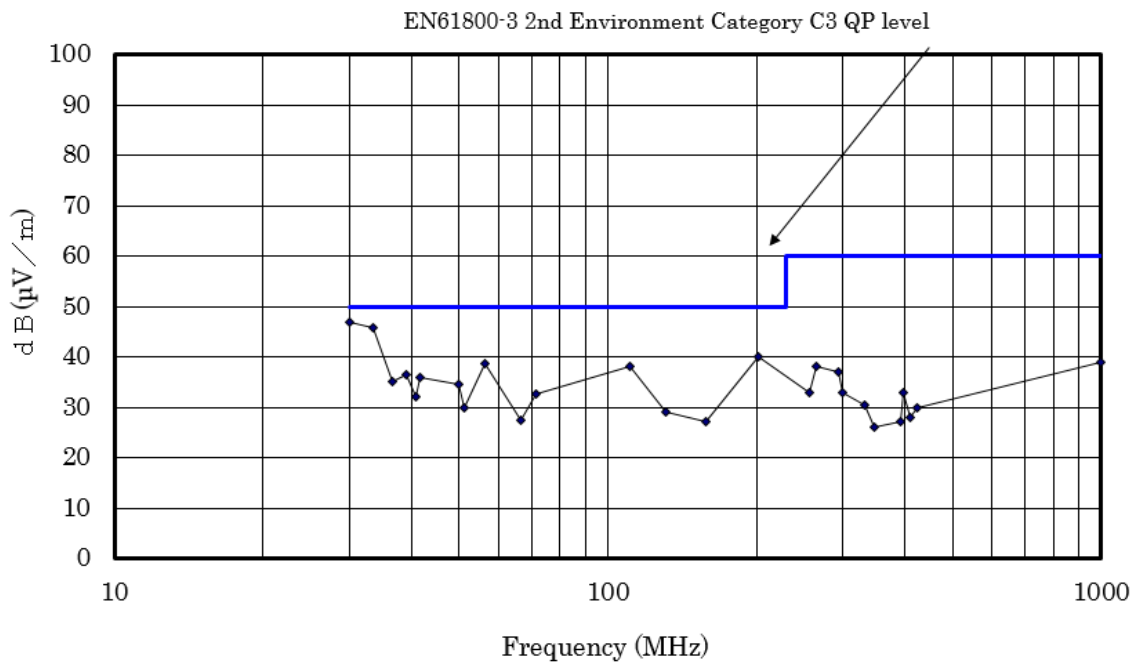
FR-CS84-295 (Carrier frequency : 12kHz)



(Note) The QP value will not exceed the peak value

◆ Radiated noise

FR-CS84-295 (Carrier frequency : 12kHz)



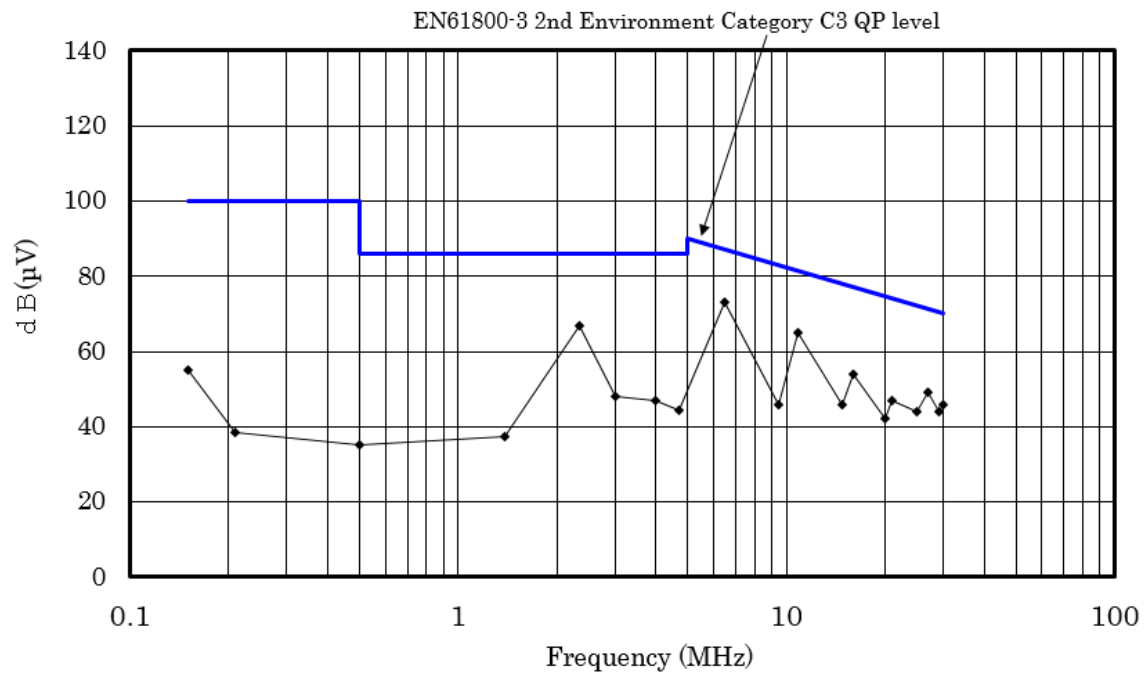
(Note) The QP value will not exceed the peak value

**MODELS: FR-CS80**

**FR-CS82S-042**

◆ Conducted noise

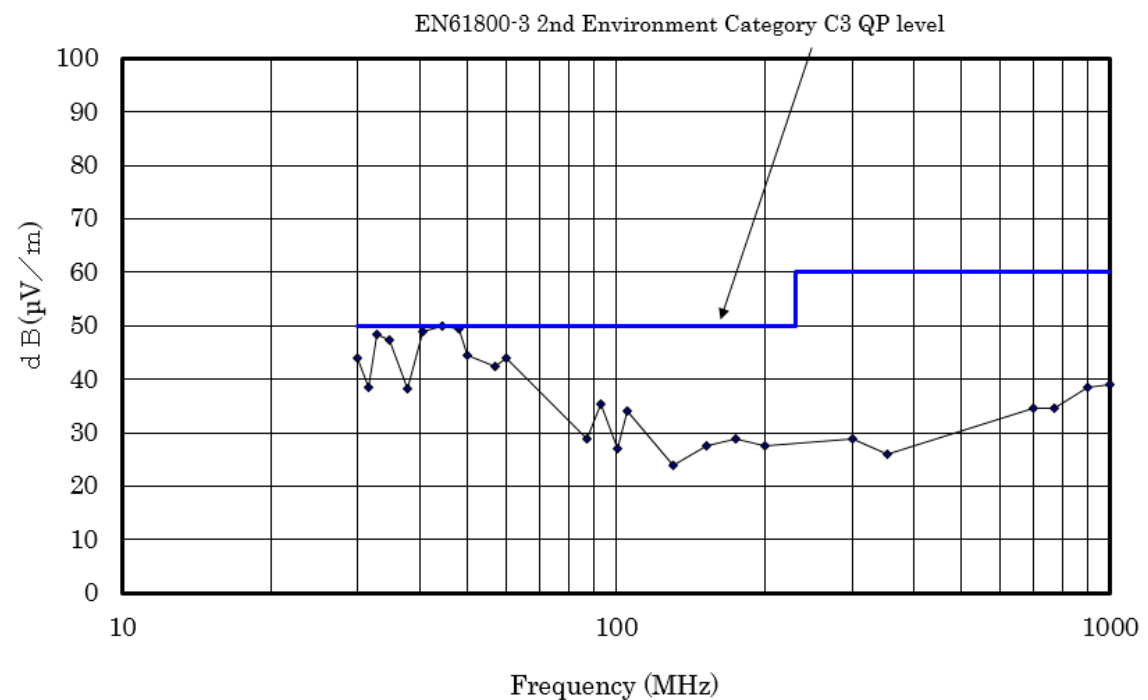
FR-CS82S-042 (Carrier frequency : 12kHz)



(Note) The QP value will not exceed the peak value

◆ Radiated noise

FR-CS82S-042 (Carrier frequency : 12kHz)



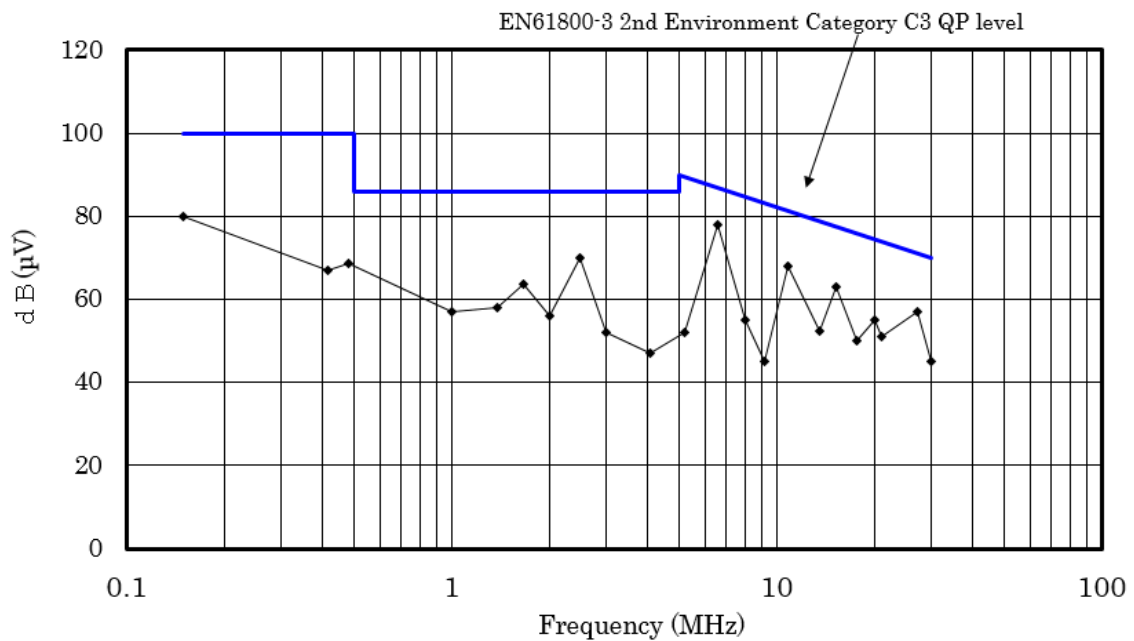
(Note) The QP value will not exceed the peak value

**MODELS: FR-CS80**

**FR-CS82S-100**

◆ Conducted noise

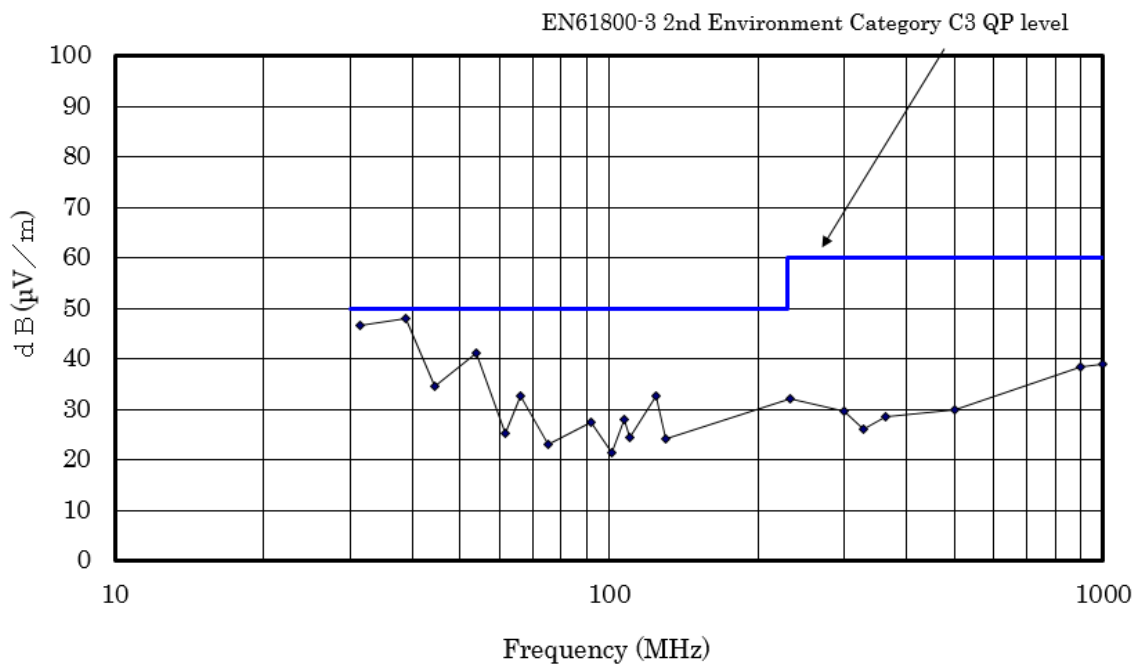
FR-CS82S-100 (Carrier frequency : 12kHz)



(Note) The QP value will not exceed the peak value

◆ Radiated noise

FR-CS82S-100 (Carrier frequency : 12kHz)



(Note) The QP value will not exceed the peak value