

Simple low frequency radiation system

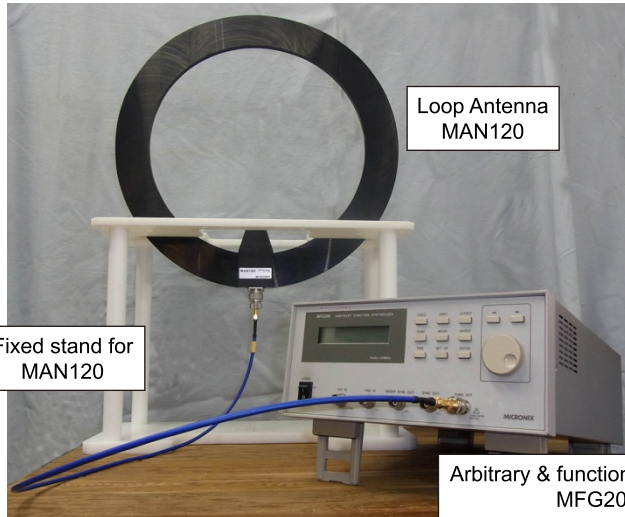
[*Application*]

By limiting frequency and radiation level, it's possible to build low-cost low-frequency radiation system.

It is effective when the current equipment is not able to cover the low frequency range or when it is desired to carry out radiation only in the limited low frequency range simply. It can also be used in combination with our electromagnetic anechoic box.

[*Solution*]

[System image]



By combining the loop antenna MAN120 and the function synthesizer MAG206, the following frequency and output level can be handled.

[Specifications]

- Frequency : 50 to 20,000kHz (setting value of MAG206)
- Output level : 150 to 15,000mV (setting value of MAG206)
- Radiation level : Refer to the following measured data.
(Measured 0.3 m away from the loop antenna.)
*It is a typical value and not a guaranteed value.

[Measured data]

- Loop antenna Measured at the front of MAN 120 and away 0,3m from it.
- The following data are values obtained by subtracting the receive antenna gain from the actual measurement values.
- The following data are typical values and not guaranteed values.

frequency:50(kHz)		frequency:250(kHz)		frequency:500(kHz)		frequency :1000(kHz)		frequency:5000(kHz)		frequency:20000(kHz)	
output (mV)	radiation level (dBm)	output (mV)	radiation level (dBm)	output (mV)	radiation level (dBm)	output (mV)	radiation level (dBm)	output (mV)	radiation level (dBm)	output (mV)	radiation level (dBm)
150	-32.58	150	-24.93	150	-22.98	150	-22.63	150	-27.58	150	-32.78
500	-22.41	500	-14.56	500	-12.76	500	-12.56	500	-17.41	500	-22.56
1000	-16.19	1000	-8.94	1000	-6.64	1000	-6.54	1000	-11.59	1000	-16.64
2500	-8.17	2500	-0.82	2500	1.38	2500	1.58	2500	-3.22	2500	-8.97
5000	-2.16	5000	5.39	5000	7.24	5000	7.39	5000	2.69	5000	-2.76
10000	3.71	10000	11.11	10000	13.16	10000	13.41	10000	8.71	10000	3.11
15000	7.62	15000	15.02	15000	16.97	15000	17.22	15000	12.42	15000	6.57

[*System constitution*]

- Loop Antenna MAN120
- Arbitrary & function synthesizer MFG206 (*This product has been discontinued.)
- Fixed stand for MAN120
- Others (cable, adapter and etc.)