



Simple Report

Applicant : 柏騰科技股份有限公司
Equipment : PVD 鍍膜
Standard : 47 CFR FCC Rules and Regulations Part 15
Subpart B

The product was received on Aug. 02, 2019, and testing was started from Aug. 02, 2019 and completed on Aug. 26, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2014 and shown compliance with the applicable technical standards.


Written by: Sam Tsai
(Sam Tsai)

Approved by: Kevin Liang
(Kevin Liang)

1 Test Configuration of EUT

1.1 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests						
Tests Item	Unwanted Emissions in the Spurious Domain					
Test Condition	Radiated measurement					
Test Mode			材質	鍍膜	接地	量測開口
	Mode 1	基準值	-	否	否	-
	Mode 2	Box + 鐵蓋 + 接地	金屬板	否	是	全封閉
	Mode 3	Box + 鐵蓋	金屬板	否	否	全封閉
	Mode 4	ABS 素材	ABS	否	否	300nm
	Mode 5	ABS 素材 + 接地	ABS	否	是	300nm
	Mode 6	ABS 素材 + 小開口 + 接地	ABS	否	是	200nm
	Mode 7	ABS 素材 + 小開口	ABS	否	否	200nm
	Mode 8	ABS 素材 + 接地 + 鍍膜 100nm	ABS	100nm	是	300nm
	Mode 9	ABS 素材 + 鍍膜 100nm	ABS	100nm	否	300nm
	Mode 10	ABS 素材 + 小開口 + 接地 + 鍍膜 100nm	ABS	100nm	是	200nm
	Mode 11	ABS 素材 + 小開口 + 鍍膜 100nm	ABS	100nm	否	200nm
	Mode 12	ABS 素材 + 接地 + 鍍膜 300nm	ABS	300nm	是	300nm
	Mode 13	ABS 素材 + 鍍膜 300nm	ABS	300nm	否	300nm
	Mode 14	ABS 素材 + 小開口 + 接地 + 鍍膜 300nm	ABS	300nm	是	200nm
	Mode 15	ABS 素材 + 小開口 + 鍍膜 300nm	ABS	300nm	否	200nm
	Mode 16	PC 素材 + 接地	PC	否	是	300nm
	Mode 17	PC 素材	PC	否	否	300nm
	Mode 18	PC 素材 + 接地 + 鍍膜 100nm	PC	100nm	是	300nm
	Mode 19	PC 素材 + 鍍膜 100nm	PC	100nm	否	300nm
	Mode 20	PC 素材 + 接地 + 鍍膜 300nm	PC	300nm	是	300nm
	Mode 21	PC 素材 + 鍍膜 300nm	PC	300nm	否	300nm
	Mode 22	PC 素材 + 小開口 + 接地 + 鍍膜 300nm	PC	300nm	是	200nm
	Mode 23	PC 素材 + 小開口 + 鍍膜 300nm	PC	300nm	否	200nm
	Mode 24	PC 素材 + 小開口 + 接地 + 鍍膜 100nm	PC	100nm	是	200nm
	Mode 25	PC 素材 + 小開口 + 鍍膜 100nm	PC	100nm	否	200nm
	Mode 26	PC 素材 + 小開口 + 接地	PC	否	是	200nm
	Mode 27	PC 素材 + 小開口	PC	否	否	200nm
Test Transmit Source	EMC CG118-250RF					

Orthogonal Planes of EUT	Z Plane
	

1.2 Testing Location Information

Testing Location		
HWA YA	ADD : No.52, Huaya 1st Rd. Guishan Dist. Taoyuan City, Taiwan (R.O.C)	
	TEL : 886-3-327-3456	FAX : 886-3-327-0973

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03Ch02-HY	Streak	21.2~23.9°C/56.2~59.1%	26/Aug/2019

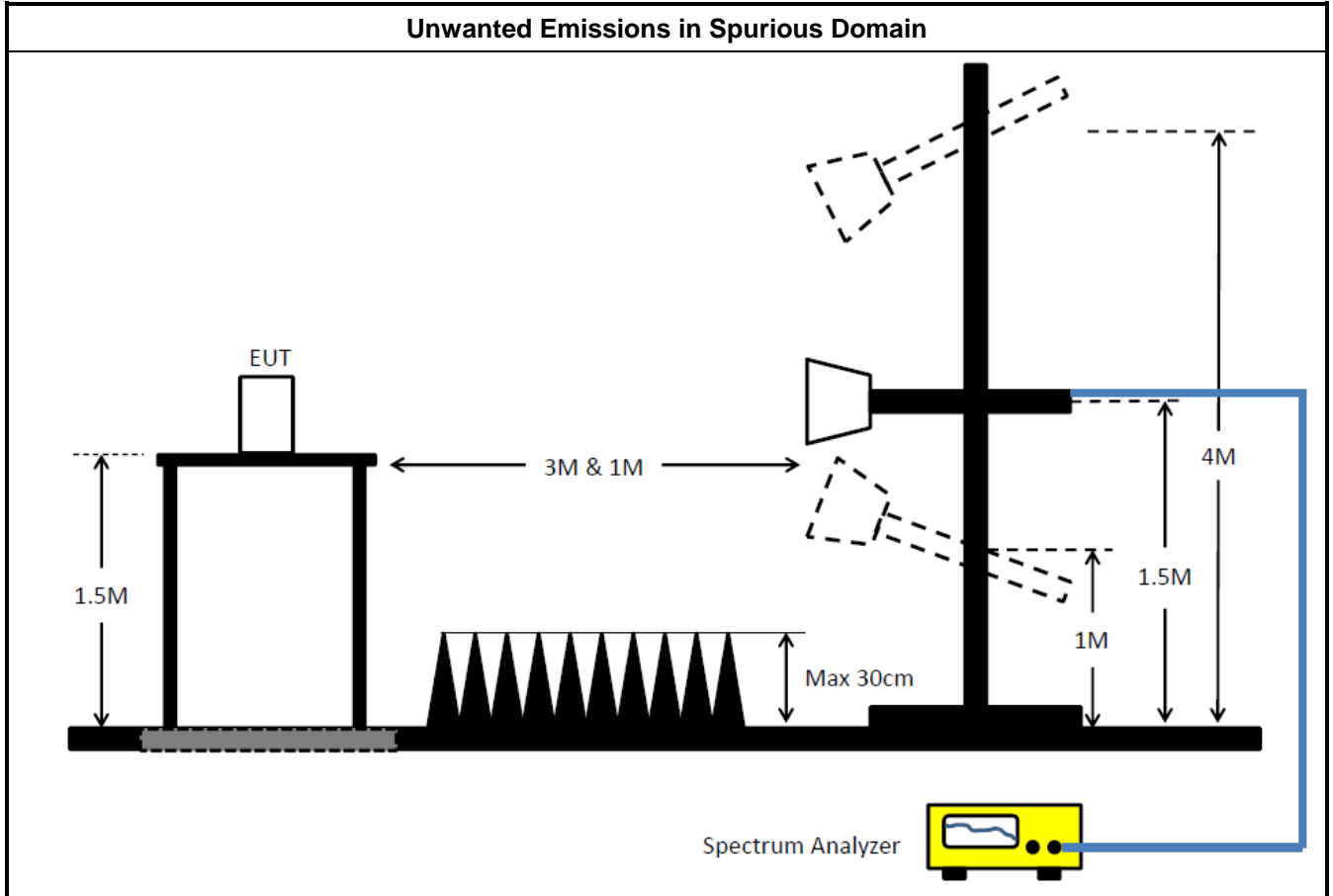
2 Support Equipment, Test Equipment and Calibration Data

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Comb-Generators	EMCI	CG118-250RF	-

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Next Calibration Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	19/Oct/2018	18/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	27/Dec/2018	26/Dec/2019
RF Cable-high 6m	SUHNER	SUCOFLEX104	10567868 / SN805193/4	1GHz~40GHz	9/Apr/2019	8/Apr/2020
RF Cable-high 7m	SUHNER	SUCOFLEX104	10567868 / SN805192/4	1GHz~40GHz	9/Apr/2019	8/Apr/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020

3 Test Result of Unwanted Emissions in the Spurious Domain

3.1 Test Setup





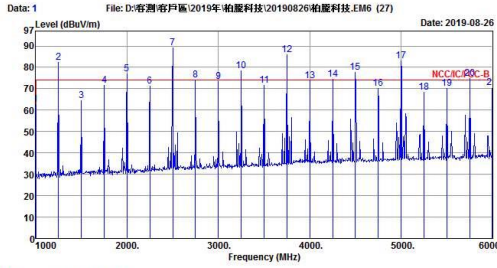
3.2 Test Result of Emission

Test Result of Unwanted Emissions in Spurious Domain

Mode 1



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Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
Antenna: PVD镀膜
Model :
Power: EMC CG118-250RF
Memo : 基準值
Memo :
Memo :
Memo :
Memo :
Memo :
Memo :
Memo :


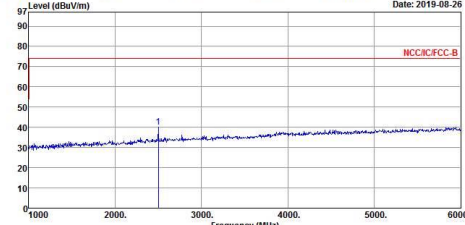

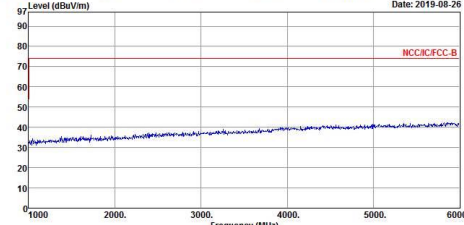

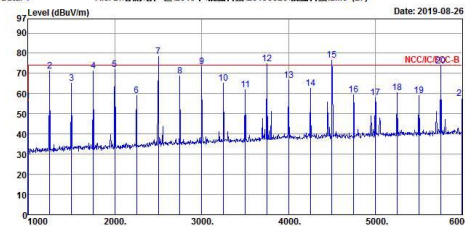

Peak	Freq	Level	Over Limit	Limit	Line	ReadAntenna	Cable	Preamp	Loss	Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB				cm	deg
1	1000.0000	62.50	-11.50	74.00	70.27	24.40	3.09	35.26	Peak			150	0
2	1250.0000	82.18	8.18	74.00	88.56	25.05	3.45	34.80	Peak			150	0
3	1500.0000	64.27	-9.73	74.00	69.27	25.70	3.81	34.51	Peak			150	0
4	1750.0000	71.41	-2.59	74.00	75.85	25.95	4.03	34.42	Peak			150	0
5	2000.0000	77.03	3.03	74.00	80.91	26.20	4.26	34.34	Peak			150	0
6	2250.0000	71.18	-2.82	74.00	74.12	26.95	4.55	34.44	Peak			150	0
7	2500.0000	89.23	15.23	74.00	91.22	27.70	4.85	34.54	Peak			150	0
8	2750.0000	74.14	0.14	74.00	75.53	28.10	5.15	34.64	Peak			150	0
9	3000.0000	73.52	-0.48	74.00	74.30	28.50	5.45	34.73	Peak			150	0
10	3250.0000	78.56	4.56	74.00	79.03	28.65	5.56	34.68	Peak			150	0
11	3500.0000	71.41	-2.59	74.00	71.58	28.80	5.67	34.64	Peak			150	0
12	3750.0000	85.91	11.91	74.00	85.03	29.25	6.23	34.60	Peak			150	0



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Peak	Freq	Level	Over Limit	Limit	Line	ReadAntenna	Cable	Preamp	Loss	Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB				cm	deg
13	4000.0000	73.56	-0.44	74.00	71.63	29.70	6.80	34.57	Peak			150	0
14	4250.0000	74.27	0.27	74.00	71.86	30.25	6.74	34.58	Peak			150	0
15	4500.0000	77.54	3.54	74.00	74.65	30.80	6.68	34.59	Peak			150	0
16	4750.0000	70.16	-3.84	74.00	66.65	31.25	6.77	34.51	Peak			150	0
17	5000.0000	82.97	8.97	74.00	78.85	31.70	6.85	34.43	Peak			150	0
18	5250.0000	68.28	-5.72	74.00	63.74	31.80	7.16	34.42	Peak			150	0
19	5500.0000	70.29	-3.71	74.00	65.32	31.90	7.48	34.41	Peak			150	0
20	5750.0000	74.97	0.97	74.00	69.55	32.25	7.64	34.47	Peak			150	0
21	6000.0000	70.64	-3.36	74.00	64.76	32.60	7.80	34.52	Peak			150	0



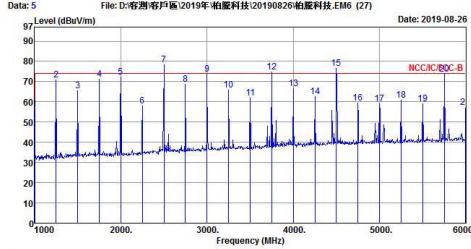
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Mode 5



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Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : ABS零件+接地
memo :
memo :
memo :
memo :
memo :
memo :

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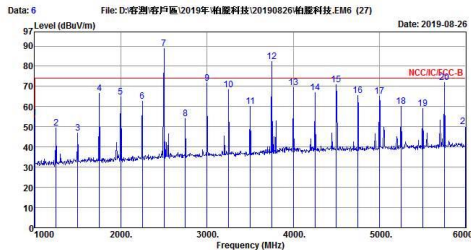
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Mode 6



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Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : ABS零件+小開口+接地
memo :
memo :
memo :
memo :
memo :
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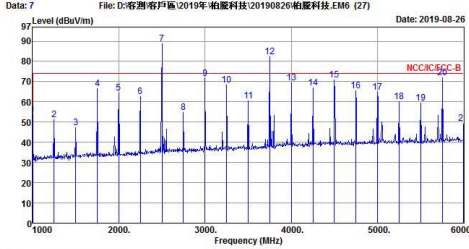
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Mode 7



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Date: 2019-08-26
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eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : ABS素材+小開口

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of measurement data.



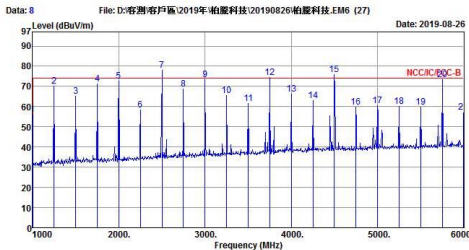
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Mode 8



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Date: 2019-08-26
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Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : ABS素材+接地
memo : 鍍膜100nm

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of measurement data.



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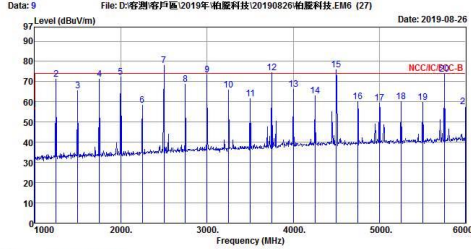
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Mode 9



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Data: 9 File: D:\容測客戶區\2019年\柏慶科技\20190826\柏慶科技.EM6 (27) Date: 2019-08-26
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eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : ABS基材
memo : 鍍膜100nm

Table with 12 columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Loss Factor, Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of test data.



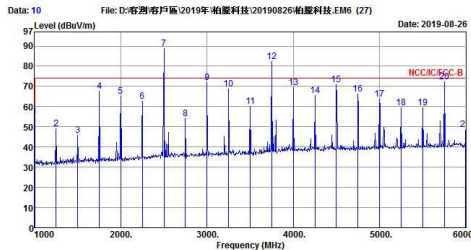
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Mode 10



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Data: 10 File: D:\容測客戶區\2019年\柏慶科技\20190826\柏慶科技.EM6 (27) Date: 2019-08-26
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : ABS基材+小開口+接地
memo : 鍍膜100nm

Table with 12 columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Loss Factor, Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of test data.



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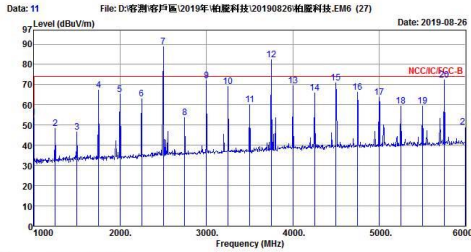
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Mode 11



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Date: 2019-08-26
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Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : ABS基材+小開口
memo : 鍍膜100nm

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 21 rows of measurement data.



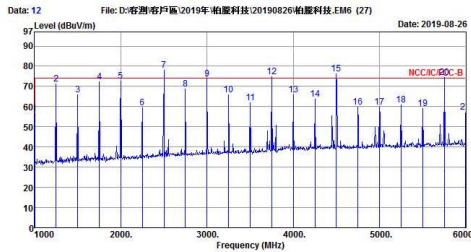
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Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 21 rows of measurement data.

Mode 12



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Date: 2019-08-26
File: D:\存測客戶區\2019年\柏慶科技\20190826\柏慶科技.EM6 (27)
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : ABS基材+接地
memo : 鍍膜300nm

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 21 rows of measurement data.



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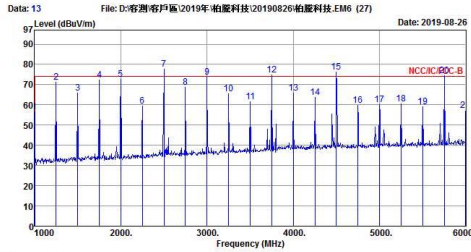
Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 21 rows of measurement data.



Mode 12



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Date: 2019-08-26
File: D:\容測客戶區\2019年\柏麗科技\20190826\柏麗科技.EM6 (27)
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : ABS基材
memo : 鍍膜300nm
memo :
memo :
memo :
memo :
memo :
memo :

Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Remark	A/Pos	T/Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1000.0000	56.64	-17.36	74.00	64.41	24.40	3.09 35.26 Peak	150	0
2	1250.0000	71.13	-2.87	74.00	77.51	25.05	3.45 34.88 Peak	150	0
3	1500.0000	65.70	-8.22	74.00	70.78	25.70	3.81 34.51 Peak	150	0
4	1750.0000	72.24	-1.76	74.00	76.68	25.95	4.03 34.42 Peak	150	0
5	2000.0000	72.55	-1.45	74.00	76.43	26.20	4.26 34.34 Peak	150	0
6	2250.0000	59.41	-14.59	74.00	62.35	26.95	4.55 34.44 Peak	150	0
7	2500.0000	77.79	3.79	74.00	79.78	27.70	4.85 34.54 Peak	150	0
8	2750.0000	68.82	-5.18	74.00	70.21	28.10	5.15 34.64 Peak	150	0
9	3000.0000	73.79	-0.30	74.00	74.48	28.50	5.45 34.73 Peak	150	0
10	3250.0000	65.66	-8.34	74.00	66.13	28.65	5.56 34.68 Peak	150	0
11	3500.0000	61.69	-12.31	74.00	61.86	28.80	5.67 34.64 Peak	150	0
12	3750.0000	74.80	0.80	74.00	73.92	29.25	6.23 34.60 Peak	150	0



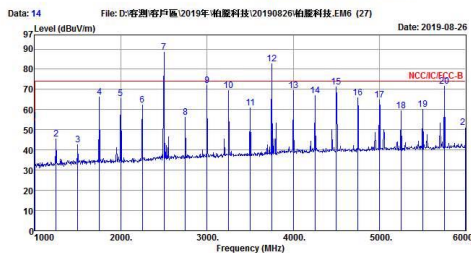
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Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Remark	A/Pos	T/Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
13	4000.0000	65.70	-8.30	74.00	63.77	29.70	6.80 34.57 Peak	150	0
14	4250.0000	63.59	-10.41	74.00	61.18	30.25	6.74 34.58 Peak	150	0
15	4500.0000	76.22	2.22	74.00	73.33	30.80	6.68 34.59 Peak	150	0
16	4750.0000	59.74	-14.26	74.00	56.23	31.25	6.77 34.51 Peak	150	0
17	5000.0000	59.96	-14.04	74.00	55.84	31.70	6.85 34.43 Peak	150	0
18	5250.0000	60.53	-13.47	74.00	55.99	31.80	7.16 34.42 Peak	150	0
19	5500.0000	59.16	-14.84	74.00	54.19	31.90	7.48 34.41 Peak	150	0
20	5750.0000	74.33	0.33	74.00	68.91	32.25	7.64 34.47 Peak	150	0
21	6000.0000	57.16	-16.84	74.00	51.28	32.60	7.80 34.52 Peak	150	0

Mode 14



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Date: 2019-08-26
File: D:\容測客戶區\2019年\柏麗科技\20190826\柏麗科技.EM6 (27)
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : ABS基材+小開口+接地
memo : 鍍膜300nm
memo :
memo :
memo :
memo :
memo :
memo :

Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Remark	A/Pos	T/Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1000.0000	54.32	-19.68	74.00	62.09	24.40	3.09 35.26 Peak	150	0
2	1250.0000	45.50	-28.50	74.00	51.88	25.05	3.45 34.88 Peak	150	0
3	1500.0000	42.45	-31.55	74.00	47.45	25.70	3.81 34.51 Peak	150	0
4	1750.0000	66.11	-7.89	74.00	70.55	25.95	4.03 34.42 Peak	150	0
5	2000.0000	65.68	-8.32	74.00	69.56	26.20	4.26 34.34 Peak	150	0
6	2250.0000	62.18	-11.82	74.00	65.12	26.95	4.55 34.44 Peak	150	0
7	2500.0000	88.39	14.39	74.00	90.38	27.70	4.85 34.54 Peak	150	0
8	2750.0000	56.02	-17.98	74.00	57.41	28.10	5.15 34.64 Peak	150	0
9	3000.0000	71.92	-2.08	74.00	72.70	28.50	5.45 34.73 Peak	150	0
10	3250.0000	69.47	-4.53	74.00	69.94	28.65	5.56 34.68 Peak	150	0
11	3500.0000	60.95	-13.05	74.00	61.12	28.80	5.67 34.64 Peak	150	0
12	3750.0000	82.72	8.72	74.00	81.84	29.25	6.23 34.60 Peak	150	0



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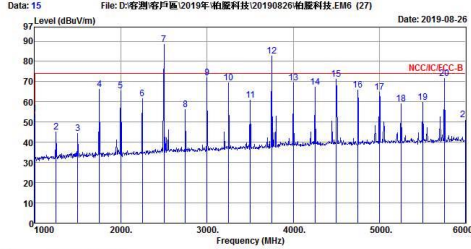
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Remark	A/Pos	T/Pos
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
13	4000.0000	69.57	-4.43	74.00	67.64	29.70	6.80 34.57 Peak	150	0
14	4250.0000	67.00	-6.92	74.00	64.67	30.25	6.74 34.58 Peak	150	0
15	4500.0000	71.18	-2.82	74.00	68.29	30.80	6.68 34.59 Peak	150	0
16	4750.0000	65.69	-8.31	74.00	62.18	31.25	6.77 34.51 Peak	150	0
17	5000.0000	64.65	-9.35	74.00	60.53	31.70	6.85 34.43 Peak	150	0
18	5250.0000	59.41	-14.59	74.00	54.87	31.80	7.16 34.42 Peak	150	0
19	5500.0000	60.31	-13.69	74.00	55.34	31.90	7.48 34.41 Peak	150	0
20	5750.0000	71.69	-2.31	74.00	66.27	32.25	7.64 34.47 Peak	150	0
21	6000.0000	51.11	-22.89	74.00	45.23	32.60	7.80 34.52 Peak	150	0



Mode 15



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Data: 15 File: D:\容測客戶區\2019年\柏麗科技\20190826\柏麗科技.EM6 (Z7) Date: 2019-08-26
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : ABS素材+小開口
memo : 鍍膜300nm
memo :
memo :
memo :
memo :
memo :

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of measurement data.



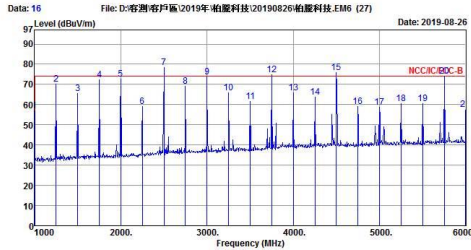
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Taiwan ,R.O.C.
Tel:+886-3-327-3456 Fax:+886-3-318-0005
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Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 11 rows of measurement data.

Mode 16



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Data: 16 File: D:\容測客戶區\2019年\柏麗科技\20190826\柏麗科技.EM6 (Z7) Date: 2019-08-26
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : PC素材+接地
memo :
memo :
memo :
memo :
memo :
memo :

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of measurement data.



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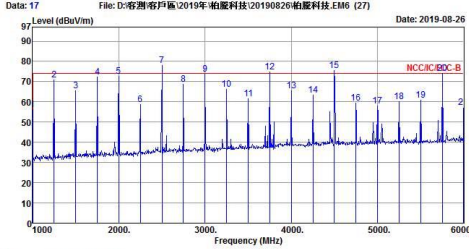
Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 11 rows of measurement data.



Mode 17



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Date: 2019-08-26
File: D:\容測客戶區\2019年\柏慶科技\20190826\柏慶科技.EM6 (27)
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : PC素材

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 21 rows of measurement data.



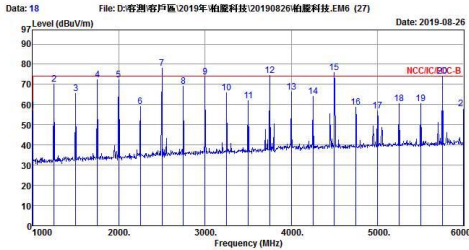
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Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 21 rows of measurement data.

Mode 18



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Date: 2019-08-26
File: D:\容測客戶區\2019年\柏慶科技\20190826\柏慶科技.EM6 (27)
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : PC素材+接地
memo : 鍍膜100nm

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 21 rows of measurement data.



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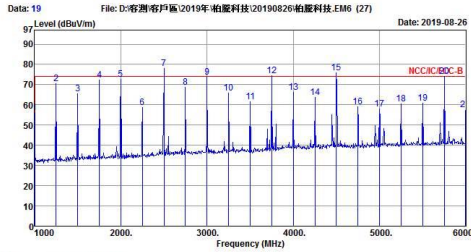
Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 21 rows of measurement data.



Mode 19



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Date: 19 File: D:\客測客戶區\2019年\柏慶科技\20190826\柏慶科技.EM6 (27) Date: 2019-08-26
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : PC基材
memo : 鍍膜100nm
memo :
memo :
memo :
memo :
memo :
memo :

Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	Remark	A/Pos	T/Pos		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		
1	1000.0000	56.19	-17.81	74.00	63.96	24.40	3.09	35.26 Peak	150	0
2	1250.0000	70.43	-3.57	74.00	76.81	25.05	3.45	34.88 Peak	150	0
3	1500.0000	65.65	-8.35	74.00	70.65	25.70	3.81	34.51 Peak	150	0
4	1750.0000	72.16	-1.84	74.00	76.60	25.95	4.03	34.42 Peak	150	0
5	2000.0000	72.64	-1.36	74.00	76.52	26.20	4.26	34.34 Peak	150	0
6	2250.0000	58.63	-15.37	74.00	61.57	26.95	4.55	34.44 Peak	150	0
7	2500.0000	77.98	3.98	74.00	79.97	27.70	4.85	34.54 Peak	150	0
8	2750.0000	68.77	-5.23	74.00	70.16	28.10	5.15	34.64 Peak	150	0
9	3000.0000	73.69	-0.31	74.00	74.47	28.50	5.45	34.73 Peak	150	0
10	3250.0000	65.71	-8.29	74.00	66.18	28.65	5.56	34.68 Peak	150	0
11	3500.0000	61.64	-12.36	74.00	61.81	28.80	5.67	34.64 Peak	150	0
12	3750.0000	74.49	0.49	74.00	73.61	29.25	6.23	34.60 Peak	150	0



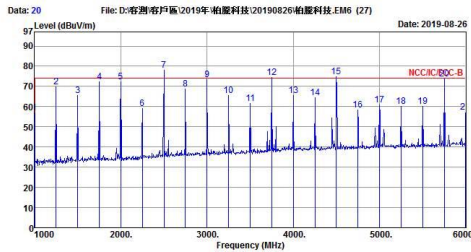
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Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	Remark	A/Pos	T/Pos		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		
13	4000.0000	66.13	-7.87	74.00	64.20	29.70	6.80	34.57 Peak	150	0
14	4250.0000	63.81	-10.19	74.00	61.40	30.25	6.74	34.58 Peak	150	0
15	4500.0000	75.82	1.82	74.00	72.93	30.80	6.68	34.59 Peak	150	0
16	4750.0000	58.97	-15.03	74.00	55.46	31.25	6.77	34.51 Peak	150	0
17	5000.0000	57.87	-16.13	74.00	53.75	31.70	6.85	34.43 Peak	150	0
18	5250.0000	60.66	-13.34	74.00	56.12	31.80	7.16	34.42 Peak	150	0
19	5500.0000	60.67	-13.33	74.00	55.70	31.90	7.48	34.41 Peak	150	0
20	5750.0000	74.11	0.11	74.00	68.69	32.25	7.64	34.47 Peak	150	0
21	6000.0000	57.51	-16.49	74.00	51.63	32.60	7.80	34.52 Peak	150	0

Mode 20



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Date: 20 File: D:\客測客戶區\2019年\柏慶科技\20190826\柏慶科技.EM6 (27) Date: 2019-08-26
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : PC基材+接地
memo : 鍍膜300nm
memo :
memo :
memo :
memo :
memo :
memo :

Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	Remark	A/Pos	T/Pos		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		
1	1000.0000	56.77	-17.23	74.00	64.54	24.40	3.09	35.26 Peak	150	0
2	1250.0000	69.79	-4.21	74.00	76.17	25.05	3.45	34.88 Peak	150	0
3	1500.0000	65.65	-8.35	74.00	70.65	25.70	3.81	34.51 Peak	150	0
4	1750.0000	72.28	-1.72	74.00	76.72	25.95	4.03	34.42 Peak	150	0
5	2000.0000	72.39	-1.61	74.00	76.27	26.20	4.26	34.34 Peak	150	0
6	2250.0000	58.89	-15.11	74.00	63.83	26.95	4.55	34.44 Peak	150	0
7	2500.0000	77.99	3.99	74.00	79.98	27.70	4.85	34.54 Peak	150	0
8	2750.0000	68.74	-5.26	74.00	70.13	28.10	5.15	34.64 Peak	150	0
9	3000.0000	73.54	-0.46	74.00	74.32	28.50	5.45	34.73 Peak	150	0
10	3250.0000	65.63	-8.37	74.00	66.10	28.65	5.56	34.68 Peak	150	0
11	3500.0000	61.40	-12.60	74.00	61.57	28.80	5.67	34.64 Peak	150	0
12	3750.0000	74.30	0.30	74.00	73.42	29.25	6.23	34.60 Peak	150	0



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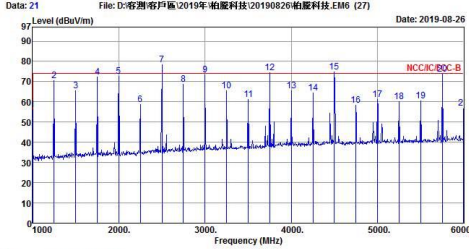
Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	Remark	A/Pos	T/Pos		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		
13	4000.0000	65.59	-8.41	74.00	63.66	29.70	6.80	34.57 Peak	150	0
14	4250.0000	64.30	-9.70	74.00	61.89	30.25	6.74	34.58 Peak	150	0
15	4500.0000	74.83	0.83	74.00	71.94	30.80	6.68	34.59 Peak	150	0
16	4750.0000	58.44	-15.56	74.00	54.93	31.25	6.77	34.51 Peak	150	0
17	5000.0000	60.77	-13.23	74.00	56.65	31.70	6.85	34.43 Peak	150	0
18	5250.0000	60.12	-13.88	74.00	55.58	31.80	7.16	34.42 Peak	150	0
19	5500.0000	60.19	-13.81	74.00	55.22	31.90	7.48	34.41 Peak	150	0
20	5750.0000	73.76	-0.24	74.00	68.34	32.25	7.64	34.47 Peak	150	0
21	6000.0000	57.16	-16.84	74.00	51.28	32.60	7.80	34.52 Peak	150	0



Mode 21



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Date: 21 File: D:\容測客戶區\2019年\柏麗科技\20190826\柏麗科技.EM6 (27) Date: 2019-08-26
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : PC基材
memo : 鍍膜300nm
memo :
memo :
memo :
memo :
memo :

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of measurement data.



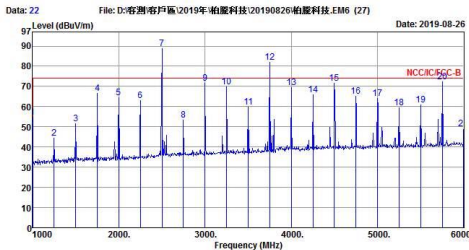
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Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of measurement data.

Mode 22



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Date: 22 File: D:\容測客戶區\2019年\柏麗科技\20190826\柏麗科技.EM6 (27) Date: 2019-08-26
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : PC基材+小開口+接地
memo : 鍍膜300nm
memo :
memo :
memo :
memo :
memo :

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of measurement data.



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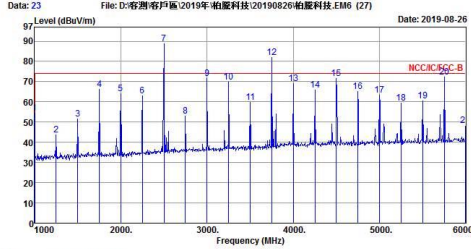
Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of measurement data.



Mode 23



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Date: 23 File: D:\存測客戶區\2019年\柏麗科技\20190826\柏麗科技.EM6 (27) Date: 2019-08-26
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : PC素材+小開口
memo : 鍍膜300nm
memo :
memo :
memo :
memo :
memo :

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Loss Factor, Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of measurement data.



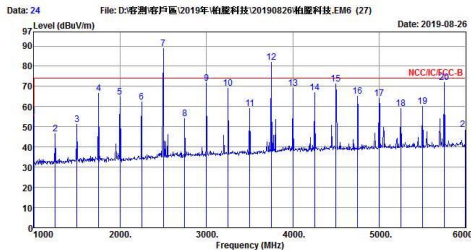
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Tel:+886-3-327-3456 Fax:+886-3-318-0005
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Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Loss Factor, Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of measurement data.

Mode 24



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Date: 24 File: D:\存測客戶區\2019年\柏麗科技\20190826\柏麗科技.EM6 (27) Date: 2019-08-26
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : PC素材+小開口+接地
memo : 鍍膜100nm
memo :
memo :
memo :
memo :
memo :

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Loss Factor, Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of measurement data.



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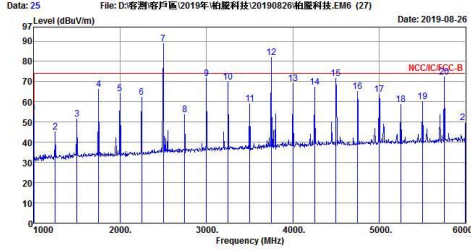
Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Loss Factor, Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 12 rows of measurement data.



Mode 25



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Date: 25 File: D:\容測客戶區\2019年\柏慶科技\20190826\柏慶科技.EM6 (27) Date: 2019-08-26
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : PC素材+小開口
memo : 鍍膜100nm

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 21 rows of measurement data.



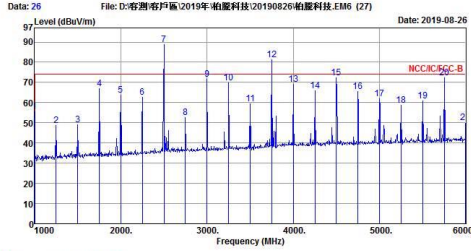
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Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 21 rows of measurement data.

Mode 26



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Date: 26 File: D:\容測客戶區\2019年\柏慶科技\20190826\柏慶科技.EM6 (27) Date: 2019-08-26
Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鍍膜
model :
power : EMC CG118-250RF
memo : PC素材+小開口+接地

Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 21 rows of measurement data.



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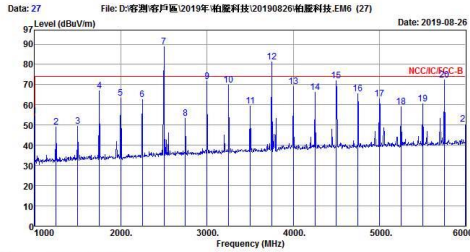
Table with columns: Freq, Level, Over Limit, Limit Line, ReadAntenna Level Factor, Cable Preamp Loss Factor, Remark, A/Pos, T/Pos. Contains 21 rows of measurement data.



Mode 27



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Site : 03CH02-HY
Condition: NCC/IC/FCC-B 3m HORN-966-02-201906 VERTICAL
eut : PVD鏡架
model :
power : EMC CG118-250RF
memo : PC素材+小開口
memo :
memo :
memo :
memo :
memo :
memo :
memo :

Line	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dB	dBuV	dB/m	dB		cm	deg
1	1000.0000	54.50	-19.50	74.00	62.27	24.40	3.09	35.26 Peak	150	0
2	1250.0000	48.94	-25.06	74.00	55.32	25.05	3.45	34.88 Peak	150	0
3	1500.0000	49.28	-24.72	74.00	54.28	25.70	3.81	34.51 Peak	150	0
4	1750.0000	66.04	-7.16	74.00	71.28	25.95	4.83	34.42 Peak	150	0
5	2000.0000	63.47	-10.53	74.00	67.35	26.20	4.26	34.34 Peak	150	0
6	2250.0000	62.76	-11.24	74.00	65.70	26.95	4.55	34.44 Peak	150	0
7	2500.0000	88.88	14.88	74.00	90.87	27.70	4.85	34.54 Peak	150	0
8	2750.0000	53.38	-20.62	74.00	54.77	28.10	5.15	34.64 Peak	150	0
9	3000.0000	71.58	-2.42	74.00	72.36	28.50	5.45	34.73 Peak	150	0
10	3250.0000	69.87	-4.13	74.00	70.34	28.65	5.56	34.68 Peak	150	0
11	3500.0000	59.52	-14.48	74.00	59.69	28.80	5.67	34.64 Peak	150	0
12	3750.0000	81.36	7.36	74.00	80.48	29.25	6.23	34.60 Peak	150	0



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Line	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark	A/Pos	T/Pos
	MHz	dBuV/m	dB	dB	dBuV	dB/m	dB		cm	deg
13	4000.0000	69.17	-4.83	74.00	67.24	29.70	6.80	34.57 Peak	150	0
14	4250.0000	66.30	-7.70	74.00	63.89	30.25	6.74	34.58 Peak	150	0
15	4500.0000	72.11	-1.89	74.00	69.22	30.80	6.68	34.59 Peak	150	0
16	4750.0000	65.36	-8.64	74.00	61.85	31.25	6.77	34.51 Peak	150	0
17	5000.0000	62.91	-11.09	74.00	58.79	31.70	6.85	34.43 Peak	150	0
18	5250.0000	58.90	-15.10	74.00	54.36	31.80	7.16	34.42 Peak	150	0
19	5500.0000	60.55	-13.45	74.00	55.58	31.90	7.48	34.41 Peak	150	0
20	5750.0000	72.27	-1.73	74.00	66.85	32.25	7.64	34.47 Peak	150	0
21	6000.0000	50.53	-23.47	74.00	44.65	32.60	7.80	34.52 Peak	150	0

4 Test Summary of Unwanted Emissions in the Spurious Domain

4.1 金屬箱接地與否對量測狀況差異

結果:

差異值小於 1dBuV/m，顯示量測治具系統接地與否，對於結果無影響，後續測試可以只針對單一模式進行。

ABS 素材	ABS 素材+接地		ABS 素材+ 鍍膜 100nm	ABS 素材+接地+鍍膜 100nm		ABS 素材+ 鍍膜 300nm	ABS 素材+接地+鍍膜 300nm	
	量測值	差異	量測值	量測值	差異	量測值	量測值	差異
56.27	56.43	-0.16	56.05	56.29	-0.24	56.64	56.61	0.03
71.06	70.96	0.1	71.13	70.3	0.83	71.13	71.38	-0.25
65.32	65.43	-0.11	65.44	65.26	0.18	65.78	65.71	0.07
71.22	71.36	-0.14	71.15	71.15	0	72.24	72.15	0.09
72.03	72.29	-0.26	72.44	72.65	-0.21	72.55	72.49	0.06
59.09	58.08	1.01	58.5	58.28	0.22	59.41	59.31	0.1
78.34	78.34	0	77.95	78.06	-0.11	77.79	78.2	-0.41
68.57	68.75	-0.18	68.81	68.71	0.1	68.82	68.87	-0.05
73.38	73.64	-0.26	73.49	73.43	0.06	73.7	73.68	0.02
65.19	65.76	-0.57	65.76	65.64	0.12	65.66	65.73	-0.07
61.82	61.82	0	61.6	61.44	0.16	61.69	61.84	-0.15
74.77	74.83	-0.06	74.62	74.43	0.19	74.8	74.71	0.09
66.58	66.53	0.05	66.16	66.16	0	65.7	65.82	-0.12
62.65	62.52	0.13	63.16	63.02	0.14	63.59	63.72	-0.13
76.43	76.44	-0.01	76	75.94	0.06	76.22	76.29	-0.07
59.38	59.41	-0.03	60.27	59.79	0.48	59.74	59.6	0.14
58.06	59.07	-1.01	59.59	60.33	-0.74	59.96	59.66	0.3
60.54	60.8	-0.26	60.21	60	0.21	60.53	60.69	-0.16
59.12	59.21	-0.09	59.83	59.61	0.22	59.16	59.24	-0.08
73.68	73.76	-0.08	73.64	73.51	0.13	74.33	74.31	0.02
57.46	57.21	0.25	57.66	57.37	0.29	57.16	57.37	-0.21

4.2 量測開口大小的差異，標準開口：30 0mm X 3 0 0mm；小開口：20 0mm X 2 0 0mm

結果:

治具箱開口大小會直接影響到電磁波的傳送，所以不同開口尺寸下，在相同頻段所量測到的訊號強度有很大的差別。

這部份與外觀膜本身特性無關，與機械開口（天線共振腔）的尺寸有關聯。

ABS 素材+小開口	ABS 素材+小開口+鍍膜 100nm		ABS 素材+小開口+鍍膜 300nm	
量測值	量測值	差異	量測值	差異
53.65	53.79	-0.14	53.93	-0.28
51.16	48.43	2.73	45.14	6.02
47.28	46.46	0.82	44.42	2.86
66.62	67.14	-0.52	66.21	0.41
64.52	65.08	-0.56	65.44	-0.92
62.61	63.07	-0.46	61.61	1
88.79	88.63	0.16	88.41	0.38
54.67	53.55	1.12	56.1	-1.43
71.54	71.85	-0.31	71.99	-0.45
68.34	68.93	-0.59	69.34	-1
60.65	60.12	0.53	60.74	-0.09
82.35	82.15	0.2	82.7	-0.35
69.33	69.36	-0.03	69.46	-0.13
66.83	65.84	0.99	67.15	-0.32
70.84	70.87	-0.03	71.12	-0.28
65.56	66.04	-0.48	65.75	-0.19
64.76	63.81	0.95	64.75	0.01
60.29	59.33	0.96	59.14	1.15
59.42	59.36	0.06	59.94	-0.52
72.09	72.4	-0.31	71.75	0.34
49.43	48.89	0.54	51.3	-1.87

4.3 鍍膜厚度及基材材質對電磁波通訊的影響。

結果:

PVD鍍膜對電磁波通訊無明顯的影響。

二材質之間對電磁波通訊沒有差別，包含鍍膜後的差異也不大。

天線暗房內的環境誤差大約在 2dB以內，高頻段的誤差有時也有可能到 6dB。

ABS 素材+鍍膜 100nm		ABS 素材+鍍膜 300nm		PC 素材	PC 素材+鍍膜 100nm		PC 素材+鍍膜 300nm		二基材 的差異	二基材在 100nm 差 異的比較	二基材在 300nm 差 異的比較
量測值	差異	量測值	差異	量測值	量測值	差異	量測值	差異	差異	差異	差異
56.05	0.22	56.64	-0.37	56.25	56.19	0.06	56.34	-0.09	0.02	-0.14	0.3
71.13	-0.07	71.13	-0.07	70.87	70.43	0.44	70.41	0.46	0.19	0.7	0.72
65.44	-0.12	65.78	-0.46	65.59	65.65	-0.06	65.53	0.06	-0.27	-0.21	0.25
71.15	0.07	72.24	-1.02	72.37	72.16	0.21	72.26	0.11	-1.15	-1.01	-0.02
72.44	-0.41	72.55	-0.52	72.52	72.64	-0.12	72.52	0	-0.49	-0.2	0.03
58.5	0.59	59.41	-0.32	58.63	58.63	0	58.71	-0.08	0.46	-0.13	0.7
77.95	0.39	77.79	0.55	77.92	77.98	-0.06	78.26	-0.34	0.42	-0.03	-0.47
68.81	-0.24	68.82	-0.25	68.8	68.77	0.03	68.77	0.03	-0.23	0.04	0.05
73.49	-0.11	73.7	-0.32	73.66	73.69	-0.03	73.55	0.11	-0.28	-0.2	0.15
65.76	-0.57	65.66	-0.47	66.1	65.71	0.39	65.42	0.68	-0.91	0.05	0.24
61.6	0.22	61.69	0.13	61.7	61.64	0.06	61.25	0.45	0.12	-0.04	0.44
74.62	0.15	74.8	-0.03	74.81	74.49	0.32	74.54	0.27	-0.04	0.13	0.26
66.16	0.42	65.7	0.88	65.65	66.13	-0.48	65.64	0.01	0.93	0.03	0.06
63.16	-0.51	63.59	-0.94	63.52	63.81	-0.29	64.35	-0.83	-0.87	-0.65	-0.76
76	0.43	76.22	0.21	75.64	75.82	-0.18	74.8	0.84	0.79	0.18	1.42
60.27	-0.89	59.74	-0.36	59.37	58.97	0.4	58.28	1.09	0.01	1.3	1.46
59.59	-1.53	59.96	-1.9	58.14	57.87	0.27	61.13	-2.99	-0.08	1.72	-1.17
60.21	0.33	60.53	0.01	60.1	60.66	-0.56	60.15	-0.05	0.44	-0.45	0.38
59.83	-0.71	59.16	-0.04	60.75	60.67	0.08	60.31	0.44	-1.63	-0.84	-1.15
73.64	0.04	74.33	-0.65	73.99	74.11	-0.12	73.85	0.14	-0.31	-0.47	0.48
57.66	-0.2	57.16	0.3	57.13	57.51	-0.38	56.76	0.37	0.33	0.15	0.4

5 Test photo of Unwanted Emissions in the Spurious Domain

