



1 UPDATED HISTORY

Table 1-1 Updated History

History	Revision	Description	Originated by
2013/05/24	0.1	Initial release	Ted_chen

2 Radiated emission test

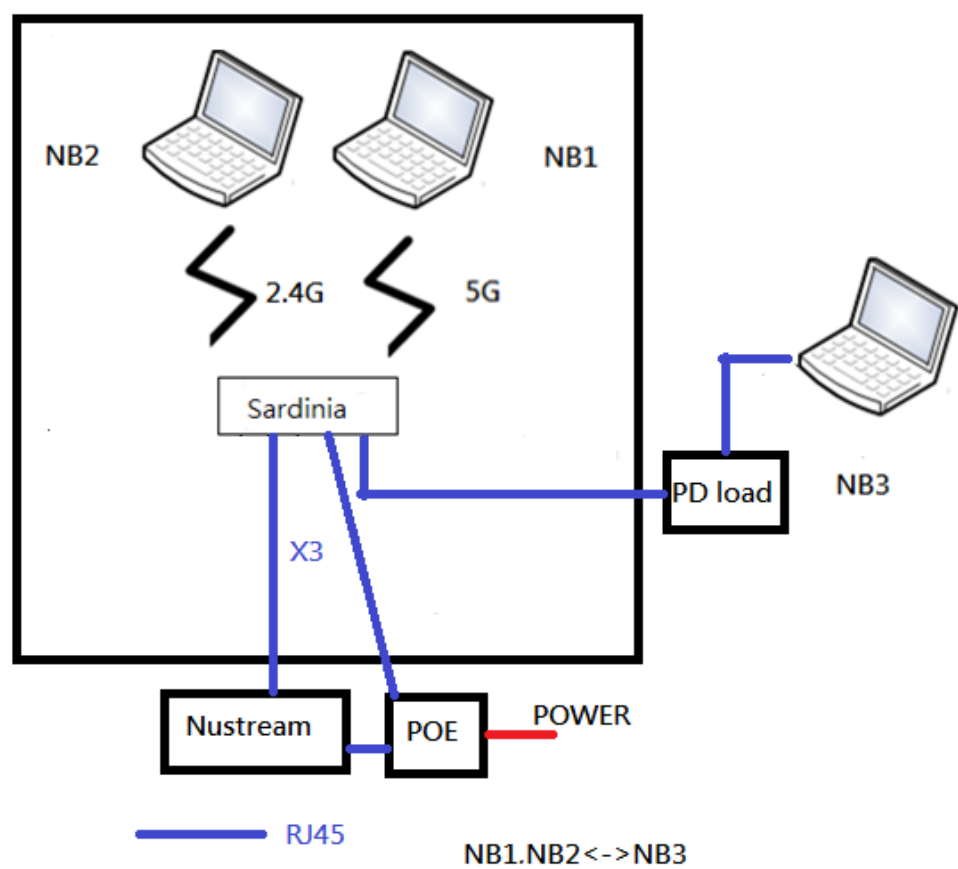
2.1 Test equipments

Table 2-1 Test equipments for radiated emission Test

Equipment	Model	Qty
Power Adaptor	FA015LSI-00	X1
Laptops		X3

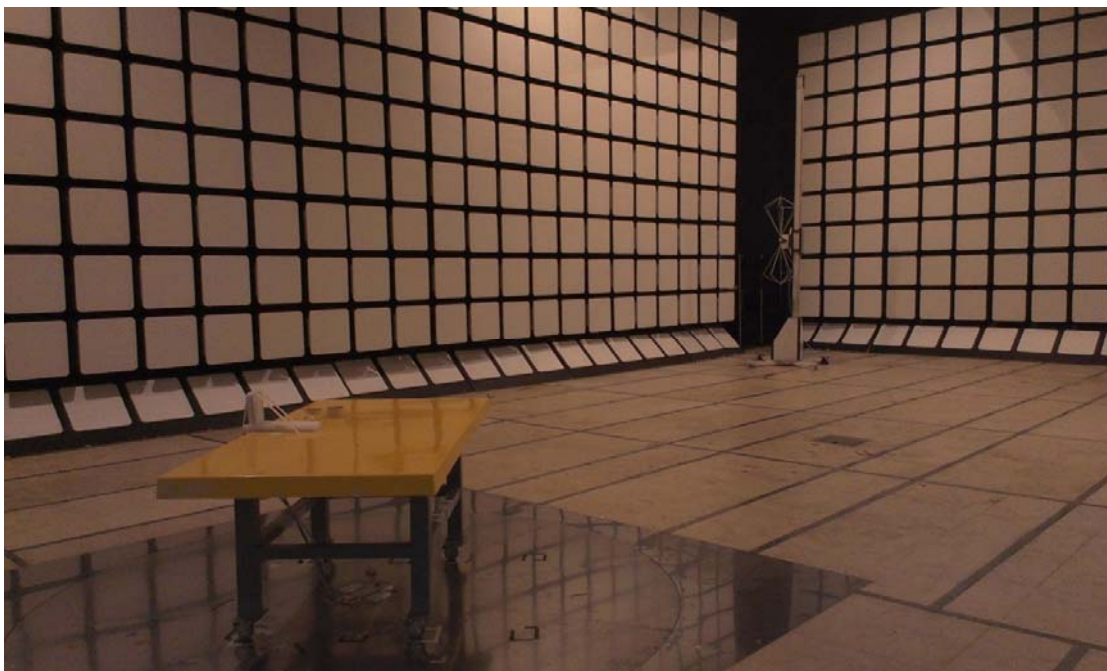
2.2 Test Setup

Figure 2-1 Test Setup for radiated emission test



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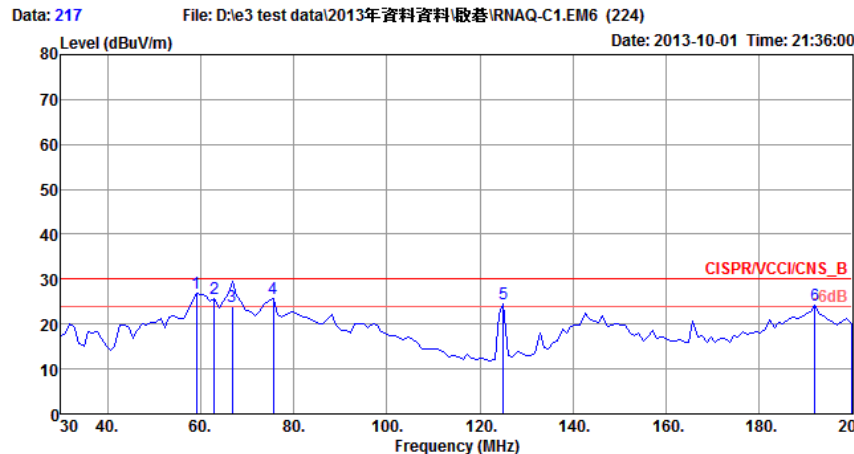
2.3 Radiated emissionTest results

2.3.1 Test result with PoE-INJ5 FA015LSI-00

Vertical: 30~200MHz



company address
tel: +886-3-6569065
fax: +886-3-6569085
website: <http://www.sporton.com.tw>



Site : 10m
Condition: CISPR/VCCI/CNS_B 10m BBHA 9124-2013-03 VERTICAL
Engineer : Sollo
EUT : RNAQ-C1
Power : 230V
mode : POE mode EUT 直立
memo : POE :FA015LSI-00
: RGMII CLK bead,IOS code
: 長螺絲加墊片,CHANGE L66,65
: LAN *4 -NuWIN
: 2.4G+5G:NB-A/B
: LAN:PC-Y

	Freq	Level	Limit	Over	Read	Preamp	Antenna	Cable	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1 !	59.10	26.76	30.00	-3.24	43.09	27.96	9.64	1.99	Peak	400	202	VERTICAL
2 !	62.98	25.61	30.00	-4.39	42.00	27.95	9.48	2.08	Peak	200	242	VERTICAL
3 q	66.86	23.84	30.00	-6.16	40.30	27.93	9.32	2.15	QP	100	211	VERTICAL
4 !	75.59	25.74	30.00	-4.26	42.20	27.90	9.14	2.30	Peak	200	45	VERTICAL
5 !	125.06	24.63	30.00	-5.37	38.30	27.70	11.01	3.02	Peak	100	263	VERTICAL
6 !	191.99	24.08	30.00	-5.92	33.82	27.44	13.94	3.76	Peak	100	18	VERTICAL

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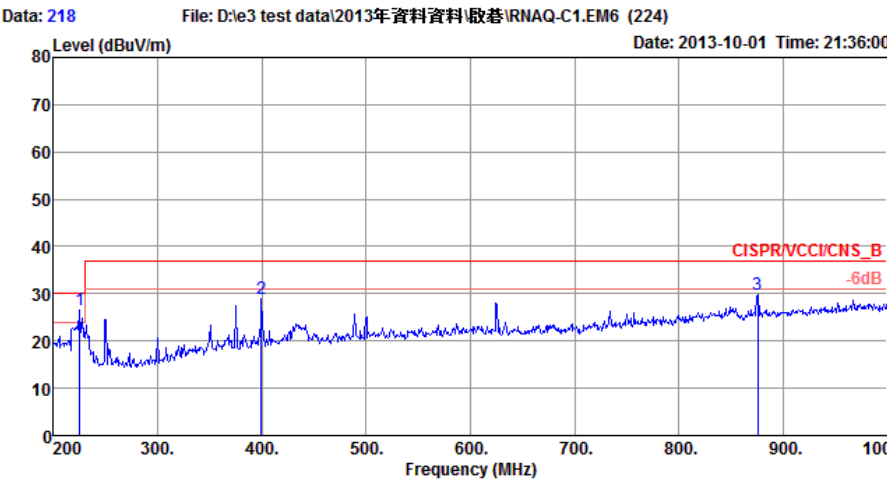
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Hsinchu 308, Taiwan, R.O.C
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Vertical: 200~1000MHz



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Site : 10m
Condition: CISPR/VCCI/CNS_B 10m VUSLP 9111-2013-04 VERTICAL
Engineer : Sollo
EUT : RNAQ-C1
Power : 230V
mode : POE mode EUT 直立
memo : POE :FA015LSI-00
: RGMII CLK bead,IOS code
: 長螺絲加墊片,CHANGE L66,65
: LAN *4 -NuWIN
: 2.4G+5G:NB-A/B
: LAN:PC-Y

	Freq	Level	Limit	Over	Read	Preamp	Antenna	Cable	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1 !	224.97	26.59	30.00	-3.41	36.72	27.04	14.15	2.76	Peak	100	208	VERTICAL
2	399.57	28.81	37.00	-8.19	36.47	27.68	16.09	3.93	Peak	100	124	VERTICAL
3	875.84	29.85	37.00	-7.15	29.29	27.14	21.90	5.80	Peak	200	320	VERTICAL

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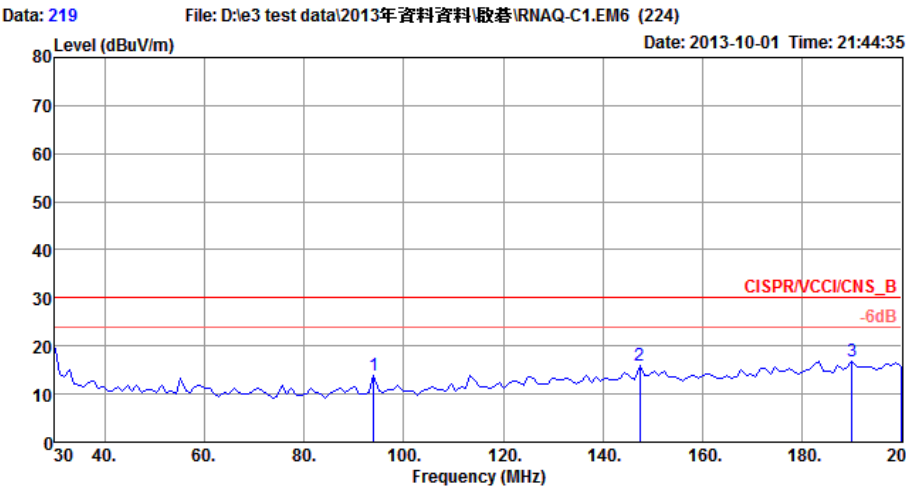
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Horizontal: 30~200MHz



company address
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fax: +886-3-6569085
website: <http://www.sporton.com.tw>



Site : 10m
Condition: CISPR/VCCI/CNS_B 10m BBHA 9124-2013-03 HORIZONTAL
Engineer : Sollo
EUT : RNAQ-C1
Power : 230V
mode : POE mode EUT 直立
memo : POE :FA015LSI-00
: RGMII CLK bead,IOS code
: 長螺絲加墊片,CHANGE L66,65
: LAN *4 -NuWIN
: 2.4G+5G:NB-A/B
: LAN:PC-Y

	Freq	Level	Limit	Over	Read	Preamp	Antenna	Cable	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	94.02	13.99	30.00	-16.01	29.93	27.83	9.30	2.59	Peak	200	360	HORIZONTAL
2	147.37	15.80	30.00	-14.20	28.30	27.62	11.82	3.30	Peak	200	360	HORIZONTAL
3	190.05	16.91	30.00	-13.09	26.81	27.45	13.80	3.75	Peak	300	11	HORIZONTAL

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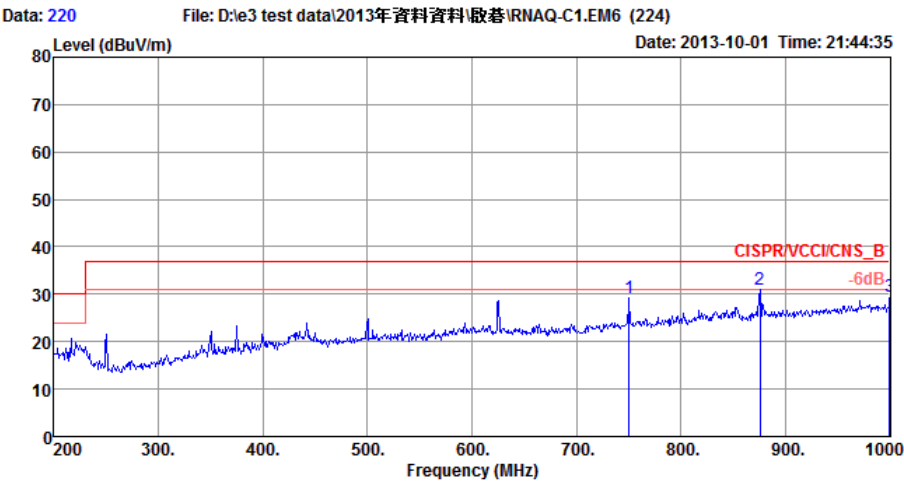
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Hsinchu 308, Taiwan, R.O.C
<http://www.wnc.com>



Horizontal: 200~1000MHz



company address
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fax:+886-3-6569085
website:<http://www.sporton.com.tw>



Site : 10m
Condition: CISPR/VCCI/CNS_B 10m VUSLP 9111-2013-04 HORIZONTAL
Engineer : Sollo
EUT : RNAQ-C1
Power : 230V
mode : POE mode EUT 直立
memo : POE :FA015LSI-00
: RGMII CLK bead,IOS code
: 長螺絲加墊片,CHANGE L66,65
: LAN *4 -NuWIN
: 2.4G+5G:NB-A/B
: LAN:PC-Y

Freq	Level	Limit	Over	Read	Preamp	Antenna	Cable	Loss	Remark	A/Pos	T/Pos	Pol/Phase
		Line	Limit							cm	deg	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	dB				
1	750.71	29.17	37.00	-7.83	30.96	27.68	20.80	5.09	Peak	100	100	HORIZONTAL
2	875.84	30.92	37.00	-6.08	30.36	27.14	21.90	5.80	Peak	300	56	HORIZONTAL
3	1000.00	29.48	37.00	-7.52	26.90	26.61	23.10	6.09	Peak	100	299	HORIZONTAL

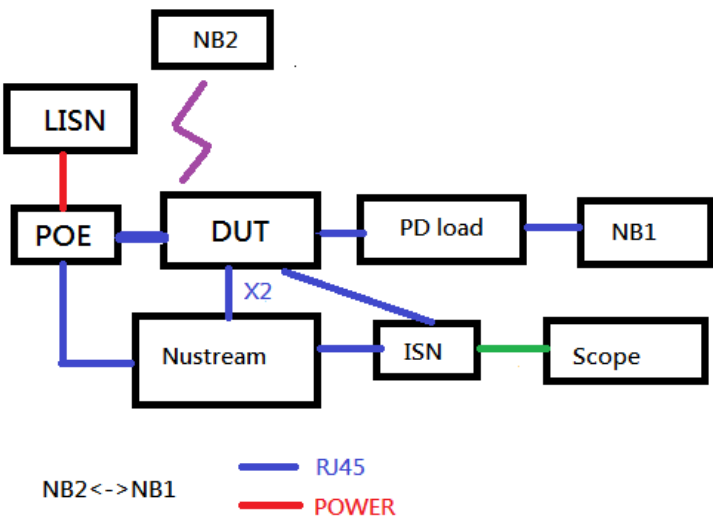
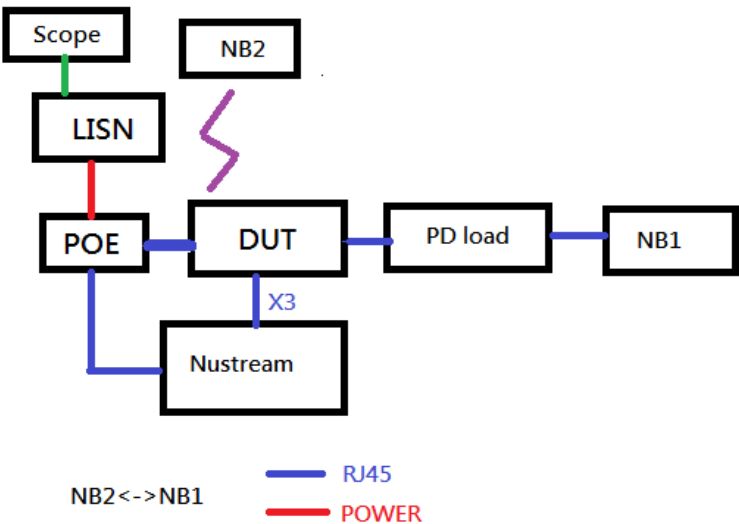
3 CONDUCTED EMISSION TEST

3.1 Test equipments

Table 2-1 Test equipments for radiated emission Test

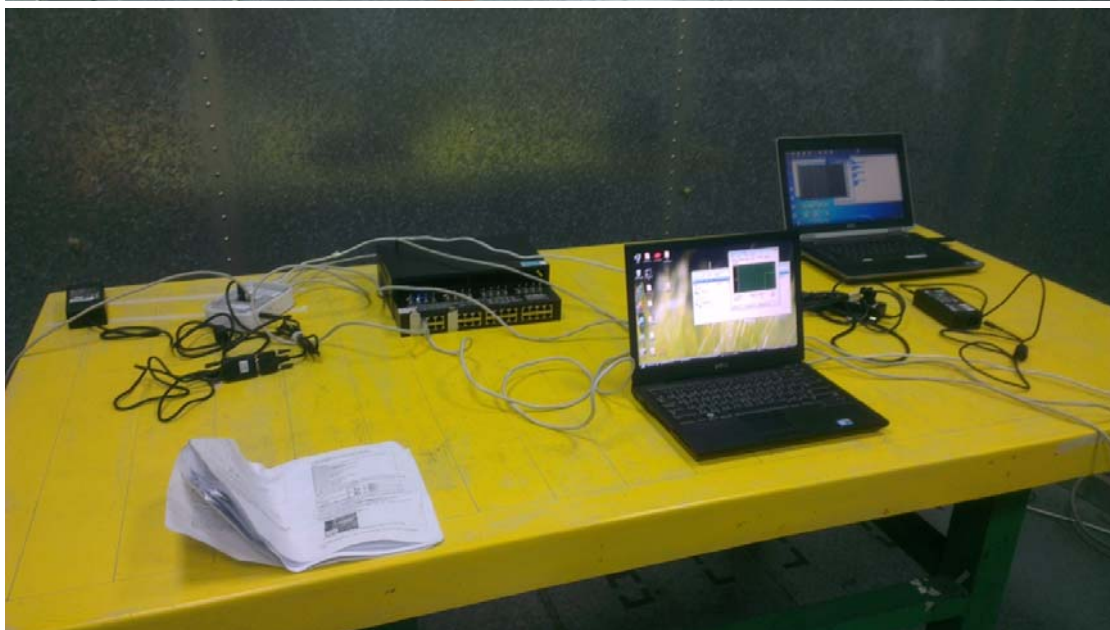
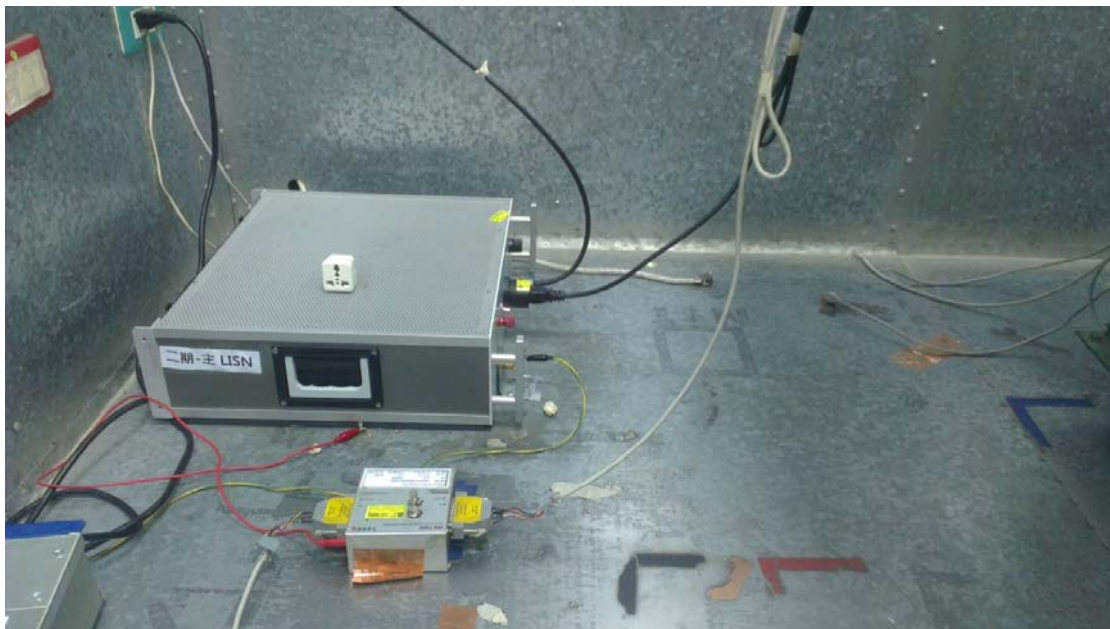
Equipment	Model	Qty
POE	POE30U-560 G	X1
Laptops		X2

3.2 Test setup and Configuration



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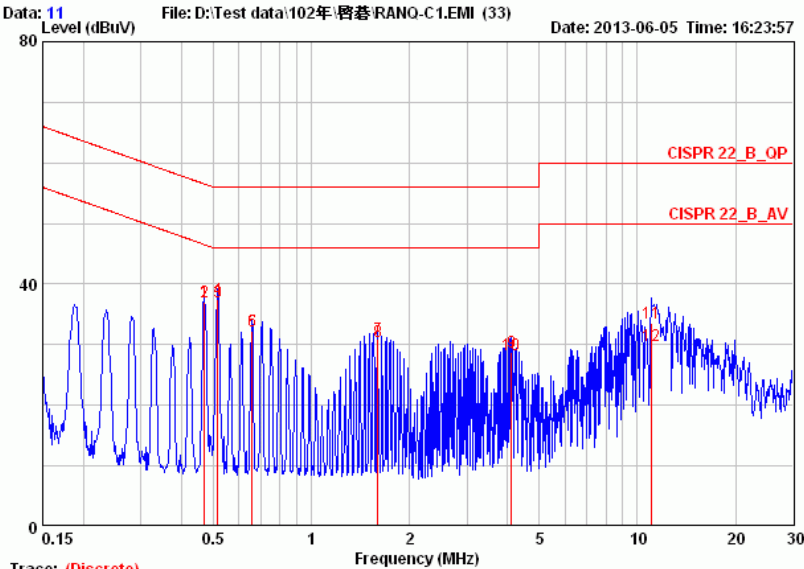


3.3 Conducted emissionTest results with POE POE30U-560 G (AC230V/
50Hz)

LISN – NEUTRAL



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Condition : CISPR 22_B_QP LISN 20120622 NEUTRAL
Engineer : Hank
Eut : RANQ-C1
Power : 230V/50Hz
Mode :
Memo : POE:POE30U-560
Memo-1 :
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-I (2.4G)
: WLAN:PC-I (5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
	dB		dB	dBuV	dB		dB		
1	0.47110	37.06	-9.43	46.49	36.78	0.08	0.20	NEUTRAL	AVERAGE
2	0.47110	37.16	-19.33	56.49	36.88	0.08	0.20	NEUTRAL	QP
3	0.51710	37.02	-8.98	46.00	36.74	0.08	0.20	NEUTRAL	AVERAGE
4	0.51710	37.42	-18.58	56.00	37.14	0.08	0.20	NEUTRAL	QP
5	0.65778	32.31	-23.69	56.00	32.03	0.08	0.20	NEUTRAL	QP
6	0.65778	32.28	-13.72	46.00	32.00	0.08	0.20	NEUTRAL	AVERAGE
7	1.601	30.96	-25.04	56.00	30.64	0.10	0.22	NEUTRAL	QP
8	1.601	30.59	-15.41	46.00	30.27	0.10	0.22	NEUTRAL	AVERAGE
9	4.100	28.84	-27.16	56.00	28.41	0.13	0.30	NEUTRAL	QP
10	4.100	28.39	-17.61	46.00	27.96	0.13	0.30	NEUTRAL	AVERAGE
11	11.037	33.58	-26.42	60.00	32.94	0.26	0.38	NEUTRAL	QP
12	11.037	29.93	-20.07	50.00	29.29	0.26	0.38	NEUTRAL	AVERAGE

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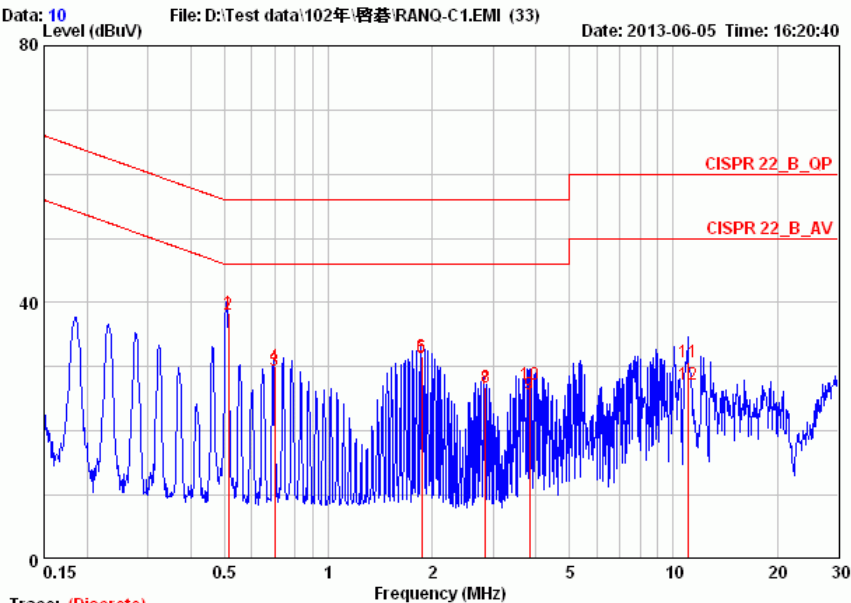
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<http://www.wnc.com>



LISN – LINE



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Condition : CISPR 22_B_QP LISN 20120622 LINE
Engineer : Hank
Eut : LANQ-C1
Power : 230V/50Hz
Mode :
Memo : POE:POE30U-560
Memo-1 :
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-I(2.4G)
: WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
			dB	dBuV	dBuV	dB	dB		
1	0.51297	38.40	-17.60	56.00	38.05	0.15	0.20	LINE	QP
2	0.51297	38.09	-7.91	46.00	37.74	0.15	0.20	LINE	AVERAGE
3	0.69960	29.42	-16.58	46.00	29.06	0.16	0.20	LINE	AVERAGE
4	0.69960	30.12	-25.88	56.00	29.76	0.16	0.20	LINE	QP
5	1.867	31.33	-14.67	46.00	30.92	0.19	0.23	LINE	AVERAGE
6	1.867	31.55	-24.45	56.00	31.14	0.19	0.23	LINE	QP
7	2.855	26.68	-19.32	46.00	26.23	0.20	0.25	LINE	AVERAGE
8	2.855	26.92	-29.08	56.00	26.47	0.20	0.25	LINE	QP
9	3.834	25.83	-20.17	46.00	25.32	0.22	0.29	LINE	AVERAGE
10	3.834	27.27	-28.73	56.00	26.76	0.22	0.29	LINE	QP
11	11.009	30.84	-29.16	60.00	30.11	0.35	0.38	LINE	QP
12	11.009	27.20	-22.80	50.00	26.47	0.35	0.38	LINE	AVERAGE

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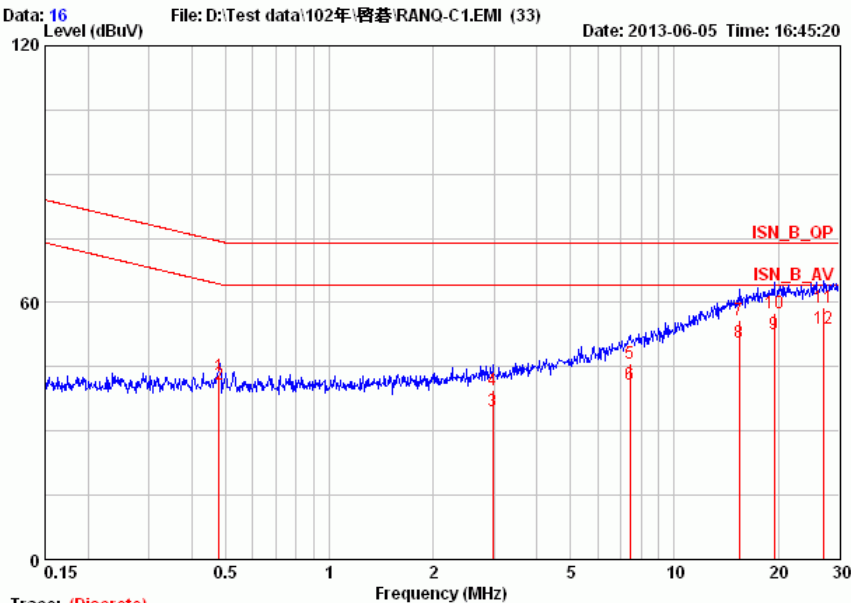
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<http://www.wnc.com>



ISN-PD -1000Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Condition : ISN_B_QP ISN T-800 201110
Engineer : Hank
Eut : RANQ-C1
Power : 230V/50Hz
Mode : PD Port
Memo : POE:POE30U-560
Memo-1 : ISN:1Gbps(10%)
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-1(2.4G)
WLAN:PC-1(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
1	0.47865	42.77	-31.59	74.36	32.70	9.87	0.20		QP
2	0.47865	40.83	-23.53	64.36	30.76	9.87	0.20		AVERAGE
3	2.978	34.77	-29.23	64.00	24.83	9.69	0.25		AVERAGE
4	2.978	39.70	-34.30	74.00	29.76	9.69	0.25		QP
5	7.446	45.82	-28.18	74.00	35.86	9.66	0.30		QP
6	7.446	40.96	-23.04	64.00	31.00	9.66	0.30		AVERAGE
7	15.388	55.77	-18.23	74.00	45.66	9.71	0.41		QP
8	15.388	50.76	-13.24	64.00	40.65	9.71	0.41		AVERAGE
9	19.428	52.72	-11.28	64.00	42.37	9.85	0.50		AVERAGE
10	19.428	57.57	-16.43	74.00	47.22	9.85	0.50		QP
11	27.127	58.86	-15.15	74.00	48.21	10.15	0.50		QP
12	27.127	53.92	-10.09	64.00	43.27	10.15	0.50		AVERAGE

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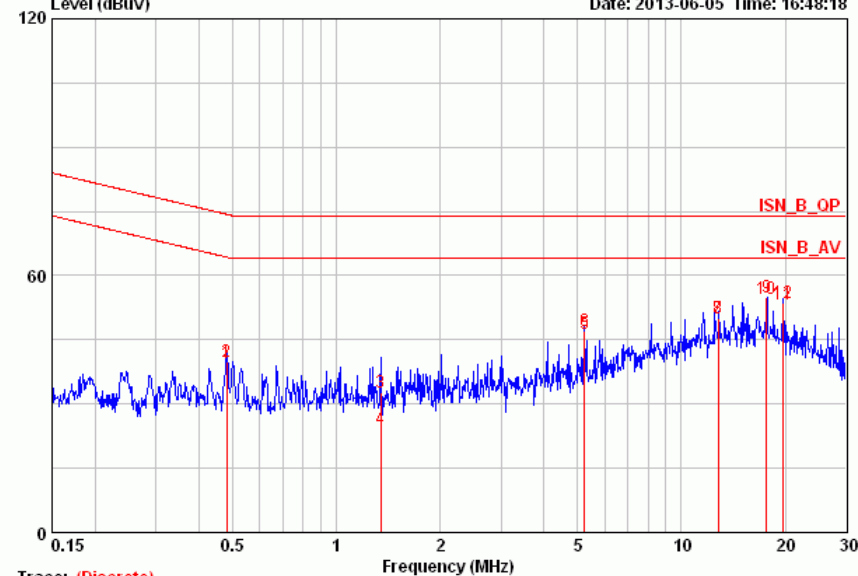


ISN-PD -100Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085

Data: 17 File: D:\Test data\102年\啓碁\LANQ-C1.EMI (33) Date: 2013-06-05 Time: 16:48:18



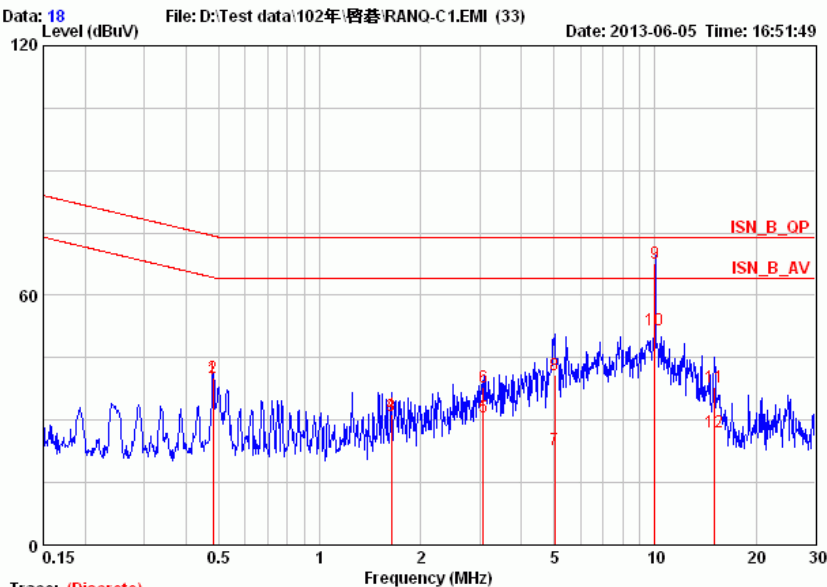
Trace: (Discrete)
Condition : ISN_B_QP ISN T-800 201110
Engineer : Hank
Eut : LANQ-C1
Power : 230V/50Hz
Mode : PD Port
Memo : POE:POE30U-560
Memo-1 : ISN:100Mbps(10%)
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-1(2.4G)
: WLAN:PC-1(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
			dB	dBuV	dBuV	dB	dB		
1	0.48119	39.66	-34.66	74.32	29.59	9.87	0.20		QP
2	0.48119	39.99	-24.33	64.32	29.92	9.87	0.20		AVERAGE
3	1.345	32.82	-41.18	74.00	22.86	9.74	0.21		QP
4	1.345	24.34	-39.66	64.00	14.38	9.74	0.21		AVERAGE
5	5.237	46.35	-17.65	64.00	36.37	9.66	0.32		AVERAGE
6	5.237	46.98	-27.02	74.00	37.00	9.66	0.32		QP
7	12.807	50.08	-23.92	74.00	40.00	9.68	0.40		QP
8	12.807	50.14	-13.86	64.00	40.06	9.68	0.40		AVERAGE
9	17.694	54.78	-19.22	74.00	44.52	9.79	0.47		QP
10	17.694	54.68	-9.32	64.00	44.42	9.79	0.47		AVERAGE
11	19.709	53.36	-10.64	64.00	43.00	9.86	0.50		AVERAGE
12	19.709	53.46	-20.54	74.00	43.10	9.86	0.50		QP

ISN-PD -10Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Trace: (Discrete)
Condition : ISN_B_QP ISN T-800 201110
Engineer : Hank
Eut : RANQ-C1
Power : 230V/50Hz
Mode : PD Port
Memo : POE:POE30U-560
Memo-1 : ISN:10Mbps(10%)
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-I(2.4G)
: WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
		dBuV	dB	dBuV	dBuV	dB	dB		
1	0.48119	39.92	-34.40	74.32	29.85	9.87	0.20		QP
2	0.48119	40.14	-24.18	64.32	30.07	9.87	0.20		AVERAGE
3	1.636	31.11	-32.89	64.00	21.16	9.73	0.22		AVERAGE
4	1.636	31.30	-42.70	74.00	21.35	9.73	0.22		QP
5	3.083	30.61	-33.39	64.00	20.67	9.69	0.25		AVERAGE
6	3.083	37.92	-36.08	74.00	27.98	9.69	0.25		QP
7	5.031	22.94	-41.06	64.00	12.96	9.66	0.32		AVERAGE
8	5.031	40.92	-33.08	74.00	30.94	9.66	0.32		QP
9	10.001	67.79	-6.21	74.00	57.78	9.66	0.35		QP
10	10.001	51.75	-12.25	64.00	41.74	9.66	0.35		AVERAGE
11	15.066	37.82	-36.18	74.00	27.72	9.69	0.41		QP
12	15.066	27.15	-36.85	64.00	17.05	9.69	0.41		AVERAGE

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<http://www.wnc.com>

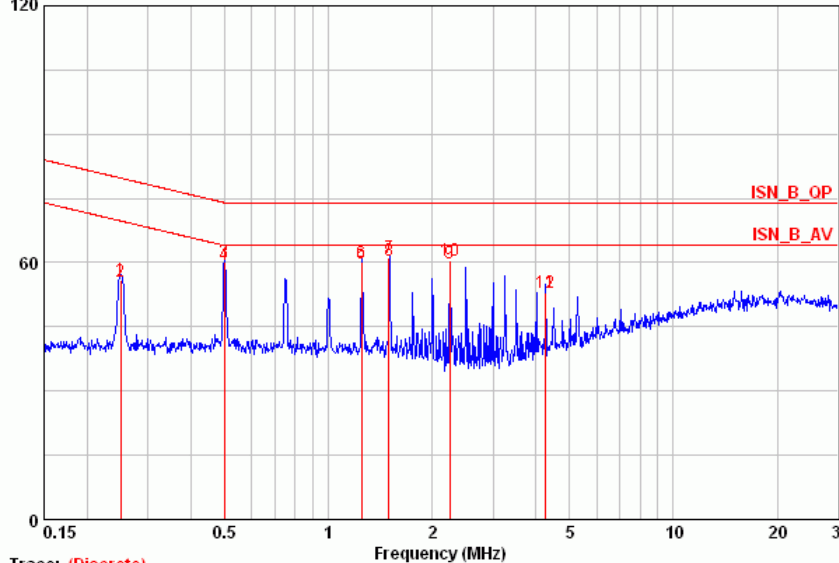


ISN-LAN -1000Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085

Data: 14 File: D:\Test data\102年\啓碁\LANQ-C1.EMI (33) Date: 2013-06-05 Time: 16:37:04
Level (dBuV)



Trace: (Discrete)
Condition : ISN_B_QP ISN T-800 201110
Engineer : Hank
Eut : LANQ-C1
Power : 230V/50Hz
Mode : LAN Port
Memo : POE:POE30U-560
Memo-1 : ISN:1Gbps(10%)
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-1(2.4G)
: WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
			dB	dBuV	dBuV	dB	dB		
1	0.25078	55.87	-13.86	69.73	45.63	10.04	0.20		AVERAGE
2	0.25078	55.45	-24.28	79.73	45.21	10.04	0.20		QP
3 ③	0.49937	60.07	-3.94	64.01	50.01	9.86	0.20		AVERAGE
4	0.49937	59.41	-14.60	74.01	49.35	9.86	0.20		QP
5 ③	1.249	60.09	-3.91	64.00	50.13	9.75	0.21		AVERAGE
6	1.249	59.72	-14.28	74.00	49.76	9.75	0.21		QP
7 ③	1.500	61.11	-2.89	64.00	51.16	9.73	0.22		AVERAGE
8	1.500	60.44	-13.56	74.00	50.49	9.73	0.22		QP
9	2.251	59.95	-14.05	74.00	50.01	9.70	0.24		QP
10 ③	2.251	60.53	-3.47	64.00	50.59	9.70	0.24		AVERAGE
11	4.252	52.82	-21.18	74.00	42.85	9.67	0.31		QP
12	4.252	52.90	-11.10	64.00	42.93	9.67	0.31		AVERAGE

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<http://www.wnc.com>

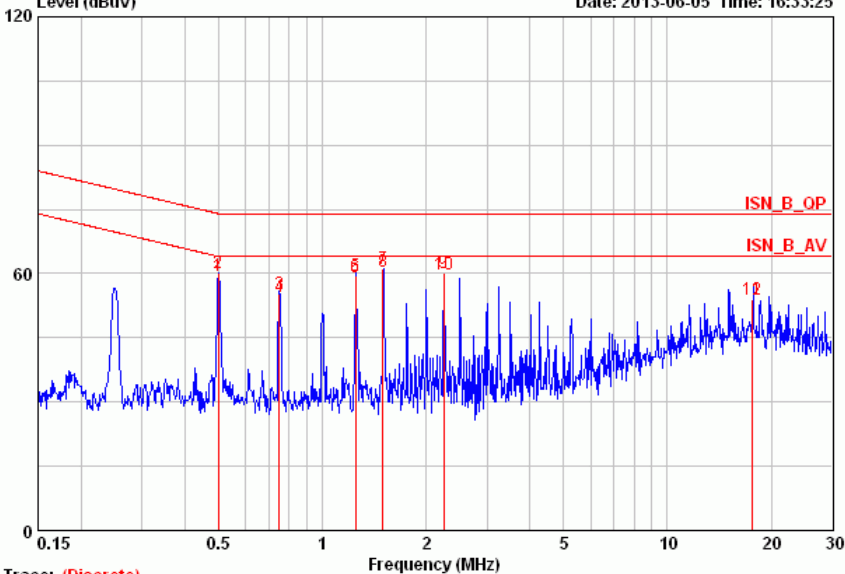


ISN-LAN -100Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085

Data: 13 File: D:\Test data\102年\啓碁\LANQ-C1.EMI (33) Date: 2013-06-05 Time: 16:33:25
Level (dBuV)



Trace: (Discrete)

Condition : ISN_B_QP ISN T-800 201110
Engineer : Hank
Eut : LANQ-C1
Power : 230V/50Hz
Mode : LAN Port
Memo : POE:POE30U-560
Memo-1 : ISN:100Mbps(10%)
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-1(2.4G)
: WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.50003	59.36	-14.64	74.00	49.30	9.86	0.20		QP
2 @	0.50003	60.13	-3.87	64.00	50.07	9.86	0.20		AVERAGE
3	0.75094	55.26	-8.74	64.00	45.25	9.81	0.20		AVERAGE
4	0.75094	54.66	-19.34	74.00	44.65	9.81	0.20		QP
5 @	1.249	59.51	-4.49	64.00	49.55	9.75	0.21		AVERAGE
6	1.249	59.26	-14.74	74.00	49.30	9.75	0.21		QP
7 @	1.501	61.17	-2.83	64.00	51.22	9.73	0.22		AVERAGE
8	1.501	60.38	-13.62	74.00	50.43	9.73	0.22		QP
9 @	2.251	60.32	-3.68	64.00	50.38	9.70	0.24		AVERAGE
10	2.251	59.73	-14.27	74.00	49.79	9.70	0.24		QP
11	17.694	53.96	-20.04	74.00	43.70	9.79	0.47		QP
12	17.694	53.91	-10.09	64.00	43.65	9.79	0.47		AVERAGE

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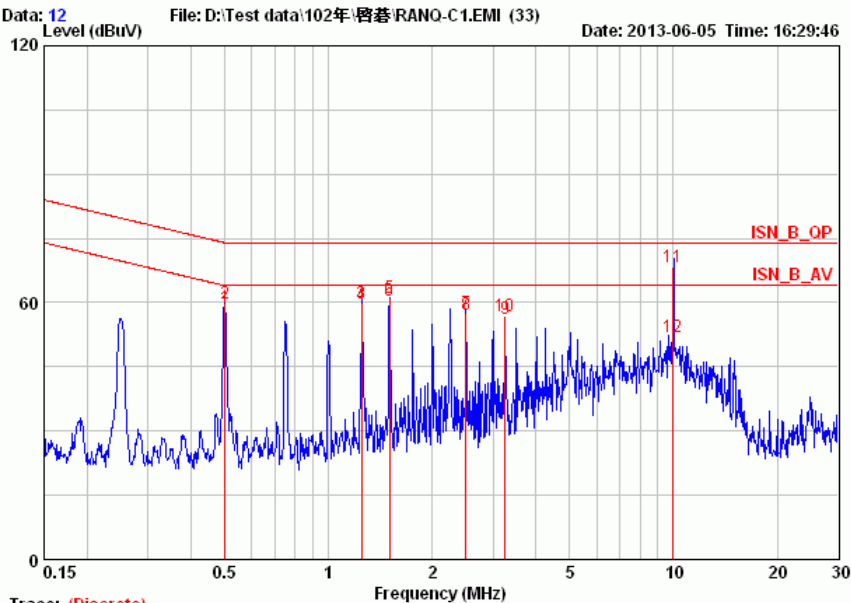
20 Park Avenue II,
Hsinchu Science Park
Hsinchu 308, Taiwan, R.O.C
<http://www.wnc.com>



ISN-LAN -10Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Condition : ISN_B_QP ISN T-800 201110
Engineer : Hank
Eut : LANQ-C1
Power : 230V/50Hz
Mode : LAN Port
Memo : POE:POE30U-560
Memo-1 : ISN:10Mbps(10%)
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-I(2.4G)
: WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
			dB	dBuV	dBuV	dB	dB		
1	0.50123	58.90	-15.10	74.00	48.84	9.86	0.20		QP
2 @	0.50123	59.78	-4.22	64.00	49.72	9.86	0.20		AVERAGE
3 @	1.249	59.96	-4.04	64.00	50.00	9.75	0.21		AVERAGE
4	1.249	59.38	-14.62	74.00	49.42	9.75	0.21		QP
5 @	1.501	61.11	-2.89	64.00	51.16	9.73	0.22		AVERAGE
6	1.501	60.34	-13.66	74.00	50.39	9.73	0.22		QP
7	2.500	57.65	-16.35	74.00	47.71	9.70	0.24		QP
8 @	2.500	57.38	-6.62	64.00	47.44	9.70	0.24		AVERAGE
9	3.252	56.39	-17.61	74.00	46.44	9.68	0.26		QP
10 @	3.252	57.06	-6.94	64.00	47.11	9.68	0.26		AVERAGE
11 @	10.000	68.38	-5.62	74.00	58.37	9.66	0.35		QP
12	10.000	52.02	-11.98	64.00	42.01	9.66	0.35		AVERAGE

Wistron NeWeb Corporation

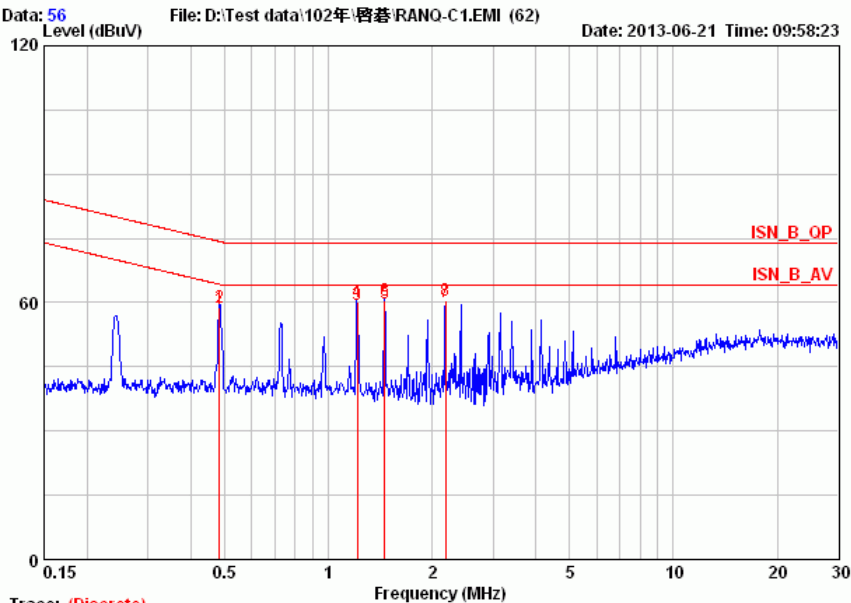
20 Park Avenue II,
Hsinchu Science Park
Hsinchu 308, Taiwan, R.O.C
<http://www.wnc.com>



ISN-PSE -1000Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Condition : ISN_B_QP ISN T-800 201110
Engineer : Parody
Eut : RNAQ-C1
Power : 230V/50Hz
Mode : PSE Port
Memo : POE:POE30U-560G
Memo-1 : ISN:1Gbps(10%)
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-1(2.4G)
 : WLAN:PC-1(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
			dB	dBuV	dBuV	dB	dB		
1	0.48375	58.38	-15.90	74.27	48.31	9.87	0.20		QP
2	0.48375	58.89	-5.39	64.27	48.82	9.87	0.20		AVERAGE
3	1.212	59.37	-14.63	74.00	49.41	9.75	0.21		QP
4	1.212	60.00	-4.00	64.00	50.04	9.75	0.21		AVERAGE
5	1.455	59.89	-14.11	74.00	49.94	9.74	0.22		QP
6	1.455	60.50	-3.50	64.00	50.55	9.74	0.22		AVERAGE
7	2.182	60.04	-13.96	74.00	50.10	9.71	0.23		QP
8	2.182	60.54	-3.46	64.00	50.60	9.71	0.23		AVERAGE

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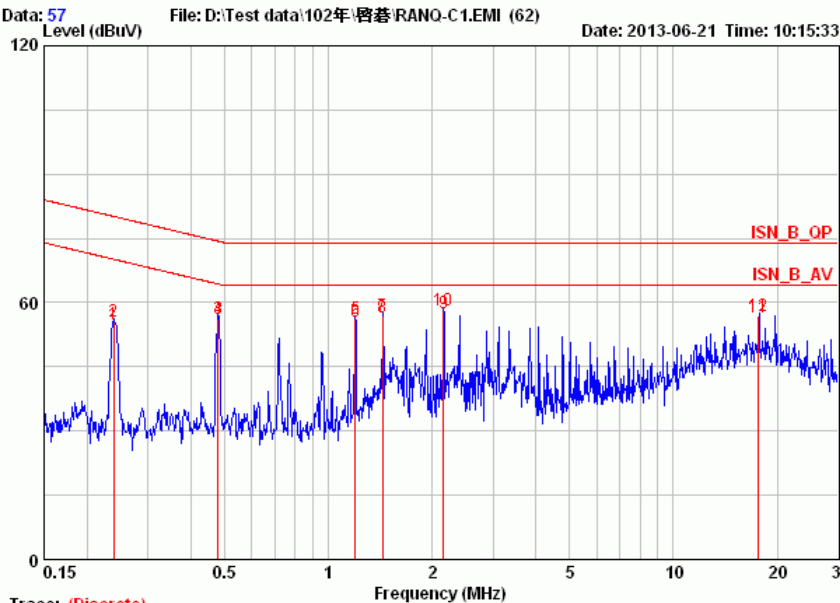
20 Park Avenue II,
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Hsinchu 308, Taiwan, R.O.C
<http://www.wnc.com>



ISN-PSE -100Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Trace: (Discrete)

Condition : ISN_B_QP ISN T-800 201110

Engineer : Parody

Eut : RNAQ-C1

Power : 230V/50Hz

Mode : PSE Port

Memo : POE:POE30U-560C

Memo-1 : ISN:100Mbps(10%)

Memo-2 :

Memo-3 :

Memo-4 : LAN:PC

Memo-5 :

Memo-6 : WLAN:NB-1(2.4G)

 : WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
			dB	dBuV	dBuV	dB	dB		
1	0.23910	54.97	-25.15	80.13	44.72	10.05	0.20		QP
2	0.23910	55.47	-14.65	70.13	45.22	10.05	0.20		AVERAGE
3	0.47865	56.36	-8.00	64.36	46.29	9.87	0.20		AVERAGE
4	0.47865	56.24	-18.12	74.36	46.17	9.87	0.20		QP
5	1.197	56.39	-7.61	64.00	46.43	9.75	0.21		AVERAGE
6	1.197	55.74	-18.26	74.00	45.78	9.75	0.21		QP
7	1.435	56.95	-7.05	64.00	47.00	9.74	0.22		AVERAGE
8	1.435	56.41	-17.59	74.00	46.46	9.74	0.22		QP
9	2.154	57.49	-16.51	74.00	47.55	9.71	0.23		QP
10	2.154	58.08	-5.92	64.00	48.14	9.71	0.23		AVERAGE
11	17.694	56.63	-7.37	64.00	46.37	9.79	0.47		AVERAGE
12	17.694	57.00	-17.00	74.00	46.74	9.79	0.47		QP

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<http://www.wnc.com>

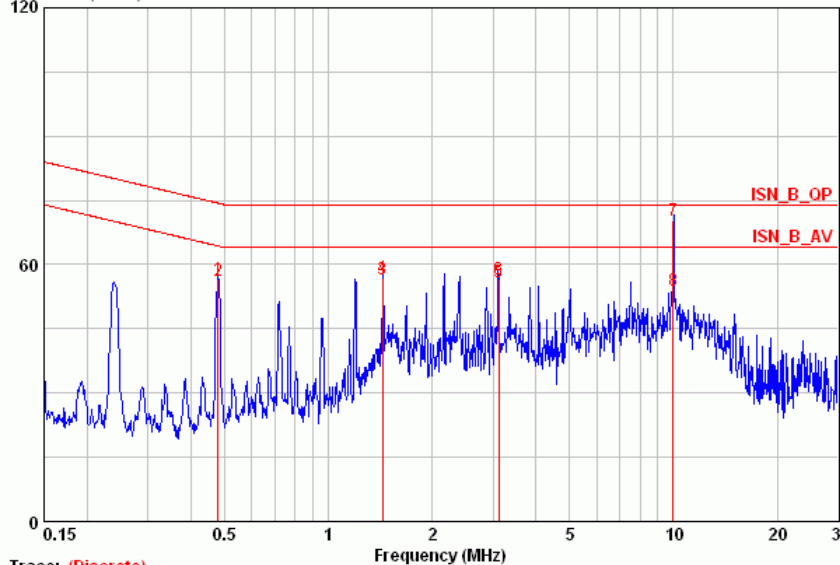


ISN-PSE -10Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085

Data: 58 File: D:\Test data\102年\啓碁 RANQ-C1.EMI (62) Date: 2013-06-21 Time: 10:19:59



Trace: (Discrete)
Condition : ISN_B_QP ISN T-800 201110
Engineer : Parody
Eut : RNAQ-C1
Power : 230V/50Hz
Mode : PSE Port
Memo : POE:POE30U-560C
Memo-1 : ISN:10Mbps(10%)
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-1(2.4G)
: WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
			dB	dBuV	dBuV	dB	dB		
1	0.47865	56.45	-7.91	64.36	46.38	9.87	0.20		AVERAGE
2	0.47865	56.26	-18.10	74.36	46.19	9.87	0.20		QP
3	1.439	56.43	-17.57	74.00	46.48	9.74	0.22		QP
4	1.439	56.87	-7.13	64.00	46.92	9.74	0.22		AVERAGE
5	3.113	56.05	-17.95	74.00	46.11	9.69	0.26		QP
6	3.113	56.44	-7.56	64.00	46.50	9.69	0.26		AVERAGE
7	10.000	70.17	-3.83	74.00	60.16	9.66	0.35		QP
8	10.000	53.84	-10.16	64.00	43.83	9.66	0.35		AVERAGE

Wistron NeWeb Corporation

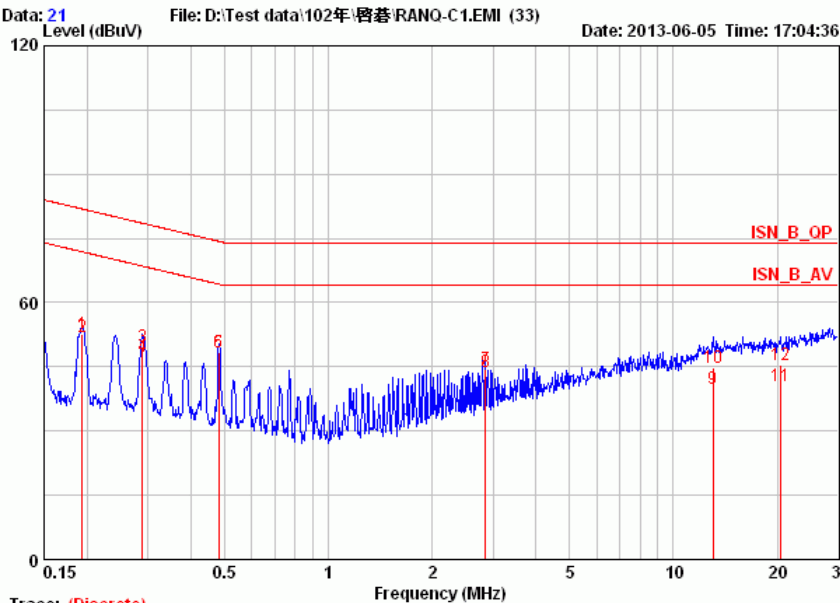
20 Park Avenue II,
Hsinchu Science Park
Hsinchu 308, Taiwan, R.O.C
<http://www.wnc.com>



ISN-To AP -1000Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Condition : ISN_B_QP ISN T-800 201110
Engineer : Hank
Eut : RANQ-C1
Power : 230V/50Hz
Mode : TO AP Port
Memo : POE:POE30U-560
Memo-1 : ISN:1Gbps(10%)
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-1(2.4G)
 : WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
			dB	dBuV	dBuV	dB	dB		
1	0.19344	52.73	-29.16	81.89	42.41	10.12	0.20		QP
2	0.19344	52.13	-19.76	71.89	41.81	10.12	0.20		AVERAGE
3	0.28935	49.82	-28.72	78.54	39.62	10.00	0.20		QP
4	0.28935	47.36	-21.18	68.54	37.16	10.00	0.20		AVERAGE
5	0.48119	48.33	-25.99	74.32	38.26	9.87	0.20		QP
6	0.48119	48.25	-16.07	64.32	38.18	9.87	0.20		AVERAGE
7	2.849	44.41	-29.59	74.00	34.47	9.69	0.25		QP
8	2.849	43.93	-20.07	64.00	33.99	9.69	0.25		AVERAGE
9	13.057	39.85	-24.15	64.00	29.77	9.68	0.40		AVERAGE
10	13.057	44.74	-29.26	74.00	34.66	9.68	0.40		QP
11	20.377	40.50	-23.50	64.00	30.11	9.89	0.50		AVERAGE
12	20.377	45.36	-28.64	74.00	34.97	9.89	0.50		QP

Wistron NeWeb Corporation

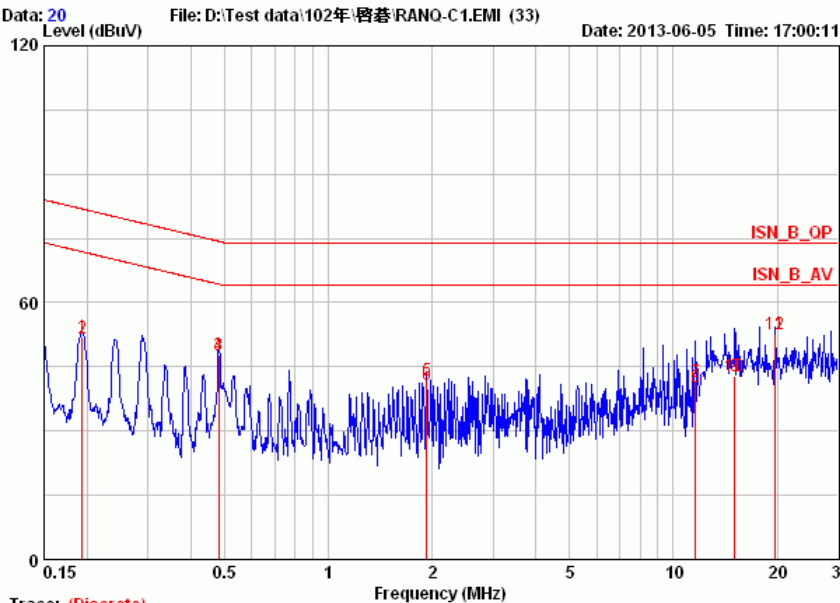
20 Park Avenue II,
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Hsinchu 308, Taiwan, R.O.C
<http://www.wnc.com>



ISN-To AP -100Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Trace: (Discrete)

Condition : ISN_B_QP ISN T-800 201110

Engineer : Hank

Eut : RANQ-C1

Power : 230V/50Hz

Mode : TO AP Port

Memo : POE:POE30U-560

Memo-1 : ISN:100Mbps(10%)

Memo-2 :

Memo-3 :

Memo-4 : LAN:PC

Memo-5 :

Memo-6 : WLAN:NB-1(2.4G)

 : WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
			dB	dBuV	dBuV	dB	dB		
1	0.19344	52.09	-29.80	81.89	41.77	10.12	0.20		QP
2	0.19344	51.61	-20.28	71.89	41.29	10.12	0.20		AVERAGE
3	0.48119	47.78	-26.54	74.32	37.71	9.87	0.20		QP
4	0.48119	47.89	-16.43	64.32	37.82	9.87	0.20		AVERAGE
5	1.928	41.89	-32.11	74.00	31.95	9.71	0.23		QP
6	1.928	40.83	-23.17	64.00	30.89	9.71	0.23		AVERAGE
7	11.589	41.36	-32.64	74.00	31.30	9.67	0.39		QP
8	11.589	40.33	-23.67	64.00	30.27	9.67	0.39		AVERAGE
9	15.066	42.67	-21.33	64.00	32.57	9.69	0.41		AVERAGE
10	15.066	42.92	-31.08	74.00	32.82	9.69	0.41		QP
11	19.709	52.75	-21.25	74.00	42.39	9.86	0.50		QP
12	19.709	52.71	-11.29	64.00	42.35	9.86	0.50		AVERAGE

Wistron NeWeb Corporation

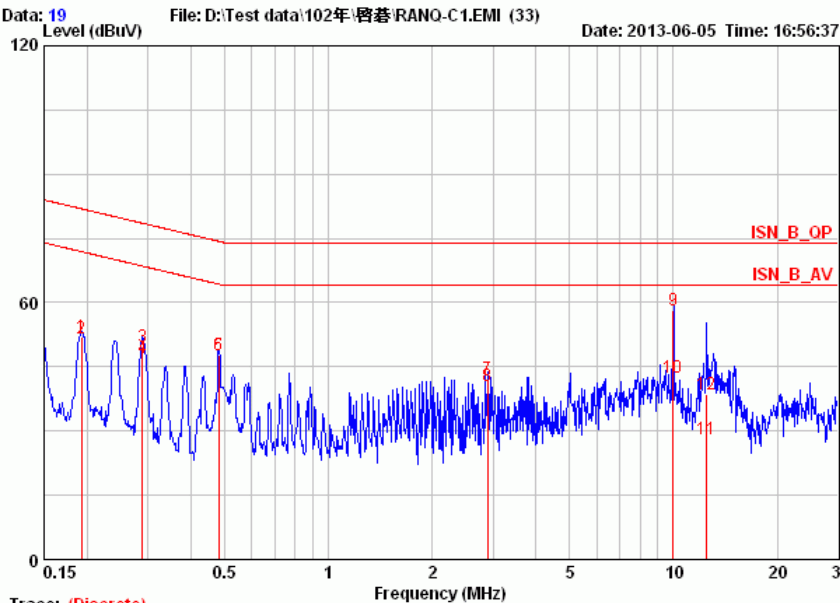
20 Park Avenue II,
Hsinchu Science Park
Hsinchu 308, Taiwan, R.O.C
<http://www.wnc.com>



ISN-To AP -10Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Trace: (Discrete)

Condition : ISN_B_QP ISN T-800 201110
Engineer : Hank
Eut : RANQ-C1
Power : 230V/50Hz
Mode : TO AP Port
Memo : POE:POE30U-560
Memo-1 : ISN:10Mbps(10%)
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-1(2.4G)
 : WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.19242	52.13	-29.80	81.93	41.81	10.12	0.20		QP
2	0.19242	51.76	-20.17	71.93	41.44	10.12	0.20		AVERAGE
3	0.28935	49.66	-28.88	78.54	39.46	10.00	0.20		QP
4	0.28935	47.23	-21.31	68.54	37.03	10.00	0.20		AVERAGE
5	0.48119	47.80	-26.52	74.32	37.73	9.87	0.20		QP
6	0.48119	47.78	-16.54	64.32	37.71	9.87	0.20		AVERAGE
7	2.893	42.18	-31.82	74.00	32.24	9.69	0.25		QP
8	2.893	40.59	-23.41	64.00	30.65	9.69	0.25		AVERAGE
9	10.000	58.09	-15.91	74.00	48.08	9.66	0.35		QP
10	10.000	42.52	-21.48	64.00	32.51	9.66	0.35		AVERAGE
11	12.516	28.13	-35.87	64.00	18.05	9.68	0.40		AVERAGE
12	12.516	38.66	-35.34	74.00	28.58	9.68	0.40		QP

Wistron NeWeb Corporation

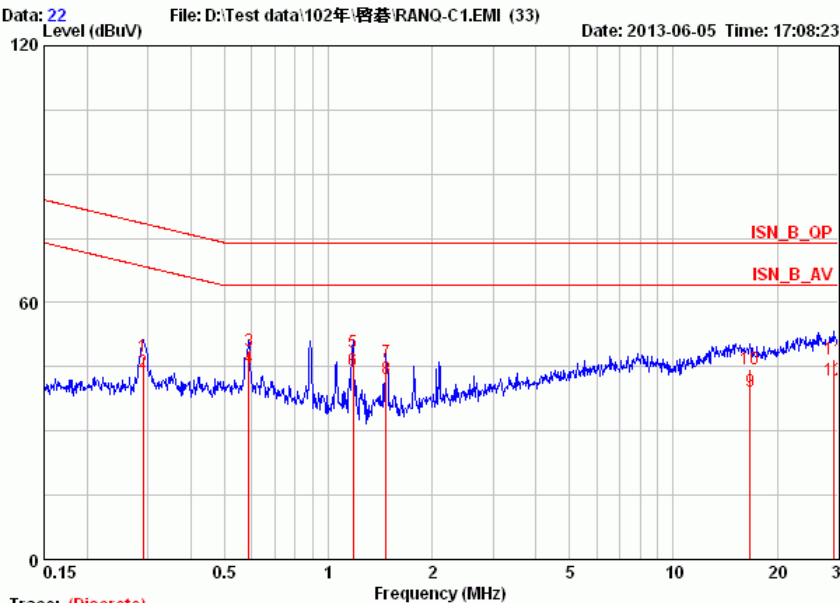
20 Park Avenue II,
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Hsinchu 308, Taiwan, R.O.C
<http://www.wnc.com>



ISN-To switch -1000Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Condition : ISN_B_QP ISN T-800 201110
Engineer : Hank
Eut : RANQ-C1
Power : 230V/50Hz
Mode : TO SWITCH Port
Memo : POE:POE30U-560
Memo-1 : ISN:1Gbps(10%)
Memo-2 :
Memo-3 :
Memo-4 : LAN:PC
Memo-5 :
Memo-6 : WLAN:NB-1(2.4G)
: WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
			dB	dBuV	dBuV	dB	dB		
1	0.29088	47.46	-31.04	78.50	37.26	10.00	0.20		QP
2	0.29088	43.94	-24.56	68.50	33.74	10.00	0.20		AVERAGE
3	0.58851	48.88	-25.12	74.00	38.84	9.84	0.20		QP
4	0.58851	44.93	-19.07	64.00	34.89	9.84	0.20		AVERAGE
5	1.178	48.46	-25.54	74.00	38.50	9.76	0.21		QP
6	1.178	43.99	-20.01	64.00	34.03	9.76	0.21		AVERAGE
7	1.472	46.11	-27.89	74.00	36.16	9.74	0.22		QP
8	1.472	42.14	-21.86	64.00	32.19	9.74	0.22		AVERAGE
9	16.661	39.28	-24.72	64.00	29.10	9.76	0.42		AVERAGE
10	16.661	44.37	-29.63	74.00	34.19	9.76	0.42		QP
11	29.061	46.84	-27.17	74.00	36.01	10.21	0.62		QP
12	29.061	41.87	-22.14	64.00	31.04	10.21	0.62		AVERAGE

Wistron NeWeb Corporation

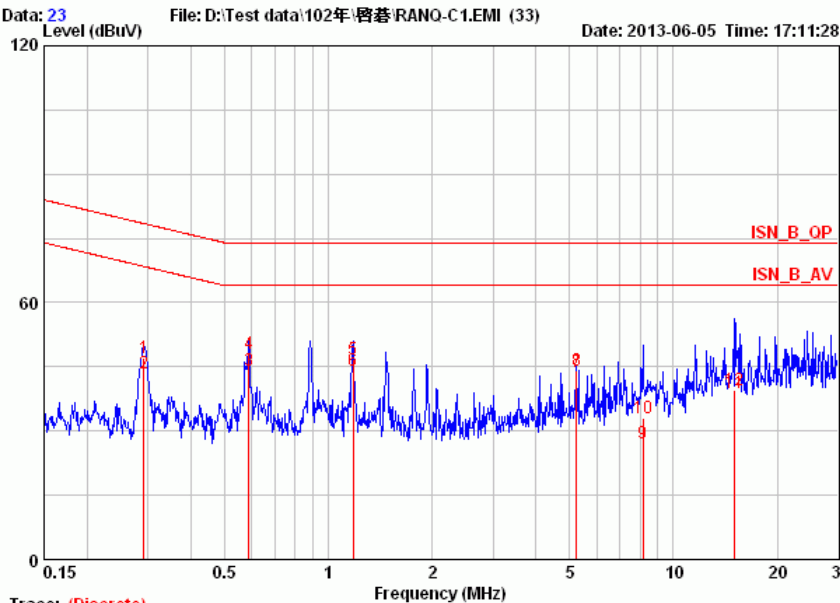
20 Park Avenue II,
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Hsinchu 308, Taiwan, R.O.C
<http://www.wnc.com>



ISN-To switch -100Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Trace: (Discrete)

Condition : ISN_B_QP ISN T-800 201110

Engineer : Hank

Eut : RANQ-C1

Power : 230V/50Hz

Mode : TO SWITCH Port

Memo : POE:POE30U-560

Memo-1 : ISN:100Mbps(10%)

Memo-2 :

Memo-3 :

Memo-4 : LAN:PC

Memo-5 :

Memo-6 : WLAN:NB-1(2.4G)

 : WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
			dB	dBuV	dBuV	dB	dB		
1	0.29243	47.06	-31.40	78.46	36.86	10.00	0.20		QP
2	0.29243	43.55	-24.91	68.46	33.35	10.00	0.20		AVERAGE
3	0.58851	44.24	-19.76	64.00	34.20	9.84	0.20		AVERAGE
4	0.58851	47.92	-26.08	74.00	37.88	9.84	0.20		QP
5	1.178	46.73	-27.27	74.00	36.77	9.76	0.21		QP
6	1.178	44.04	-19.96	64.00	34.08	9.76	0.21		AVERAGE
7	5.236	43.72	-20.28	64.00	33.74	9.66	0.32		AVERAGE
8	5.236	44.08	-29.92	74.00	34.10	9.66	0.32		QP
9	8.148	27.27	-36.73	64.00	17.31	9.66	0.30		AVERAGE
10	8.148	33.12	-40.88	74.00	23.16	9.66	0.30		QP
11	15.066	39.06	-24.94	64.00	28.96	9.69	0.41		AVERAGE
12	15.066	39.65	-34.35	74.00	29.55	9.69	0.41		QP

Wistron NeWeb Corporation

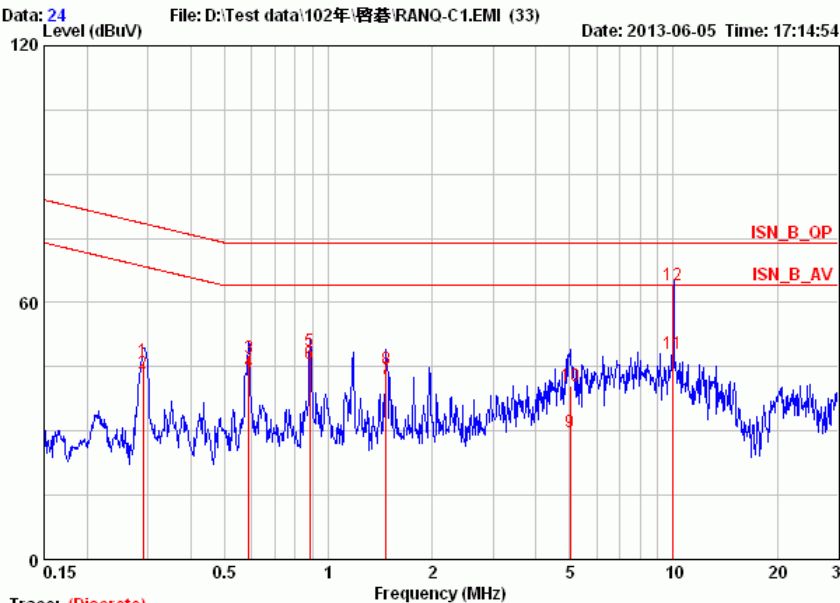
20 Park Avenue II,
Hsinchu Science Park
Hsinchu 308, Taiwan, R.O.C
<http://www.wnc.com>



ISN-To switch -10Mbps



No.8 Lane 724, Bo Ai Street, Zhubei City,
Hsin Chu Hsien 302, Taiwan, R.O.C.
TEL:03-656-9065
FAX:03-656-9085



Trace: (Discrete)

Condition : ISN_B_QP ISN T-800 201110

Engineer : Hank

Eut : RANQ-C1

Power : 230V/50Hz

Mode : TO SWITCH Port

Memo : POE:POE30U-560

Memo-1 : ISN:10Mbps(10%)

Memo-2 :

Memo-3 :

Memo-4 : LAN:PC

Memo-5 :

Memo-6 : WLAN:NB-1(2.4G)

 : WLAN:PC-I(5G)

	Freq	Level	Over	Limit	Read	LISN	Cable		
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Pol/Phase	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.29095	46.38	-32.12	78.50	36.18	10.00	0.20		QP
2	0.29095	43.43	-25.07	68.50	33.23	10.00	0.20		AVERAGE
3	0.58851	47.14	-26.86	74.00	37.10	9.84	0.20		QP
4	0.58851	43.97	-20.03	64.00	33.93	9.84	0.20		AVERAGE
5	0.88499	48.58	-25.42	74.00	38.59	9.79	0.20		QP
6	0.88499	45.74	-18.26	64.00	35.75	9.79	0.20		AVERAGE
7	1.472	42.08	-21.92	64.00	32.13	9.74	0.22		AVERAGE
8	1.472	44.34	-29.66	74.00	34.39	9.74	0.22		QP
9	5.031	29.87	-34.13	64.00	19.89	9.66	0.32		AVERAGE
10	5.031	40.57	-33.43	74.00	30.59	9.66	0.32		QP
11	10.000	47.96	-16.04	64.00	37.95	9.66	0.35		AVERAGE
12	10.000	64.01	-9.99	74.00	54.00	9.66	0.35		QP

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4. Summary of test results

Standard	Test Type		Description	Result
EN 55022:2006 +A1:2007,Class B	Radiated Test		POE FA015LSI-00 (230V/ 50Hz) below 1GHz	PASS
	Conducted test	LISN	POE30U-560 G (230V/ 50Hz)	PASS
		ISN	POE30U-560 G (AC230V/ 50Hz)	PASS