FCC PART 15 SUBPART B TEST REPORT

for

Bluetooth Module

Model No.: RN24

of

Applicant: ROVING NETWORKS, INC. Address: 809 UNIVERSITY AVENUE. LOS GATOS, CA 95032 U.S.A.

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1

A2LA Accredited No.: 2732.01





Report No.: W6M20902-9574-P-15B

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C. TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: <u>wts@wts-lab.com</u>



TABLE OF CONTENTS

1	Gene	ral Information	2
1.1	Not	es	2
1.2	Tes	ter	4
1.3	Tes	ting laboratory	5
	1.3.1	Location	5
	1.3.2	Details of accreditation status	5
	1.3.3	Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd.	5
1.4	Det	ails of applicant	6
1.5	App	olication details	6
1.6	Tes	t item	6
	1.6.1	Description of test item	6
	1.6.2	Manufacturer (if different from applicant in point 1.4)	7
	1.6.3	Frequency behavior	7
1.7	Tes	t standards	7
2	Tech	nical test	8
2.1	Sun	nmary of test results	8
2.2	Tes	t environment	8
2.3	Tes	t equipment utilized	9
2.4	Tes	t results	11
	2.4.1	Radiated Emission	12
	2.4.2	Conducted Emission	13
2.5	Tes	t protocols	14
	2.5.1	Radiated Emission	14
	2.5.2	Conducted Emission	23
2.6	Equ	ipment Modification	26
3	Norn	native references	27

Appendix : Pictures and diagrams



1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The tests were carried out and passed in accordance to the standards:

FCC part 15 : July 2008

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification (only telecommunication products).

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems. The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.6.

The test report may only be reproduced or published in full.

Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services (Taiwan) Co., Ltd.



Registration number: W6M20902-9574-P-15B

Important Notes:

Proper labelling is required for each device. Devices shall be labelled in accordance with labelling requirements pursuant to section 15.19 and section 2.1074 of the FCC rules.

Devices subject to a Declaration of Conformity shall be uniquely identified by the responsible party.

This identification shall not be of a format which could be confused with the FCC Identifier required on certified, notified type accepted or type approved equipment.

The responsible party shall maintain adequate identification records to facilitate positive identification for each device.

The user manual or instruction manual shall included also a warning statement that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Reference Section 15.21

Furthermore information to the user regarding to the interference potential of the device and about simple measures that can be taken to correct interference is required.

Reference Section 15.105

The responsible party must warrant that each unit of equipment marketed under a Declaration of Conformity is identical to the unit tested and found acceptable with the standards and that the records maintained by the responsible party continue to reflect the equipment being produced under the Declaration of Conformity within the variation that can be expected due to quantity production and testing on a statistical basis.



1.2 Tester

March 18, 2009

Danny

Dann

Date

WTS-Lab.

Test Engineer

Signature

Technical responsibility for area of testing:

WTS

March 18, 2009

Chang Tse-Ming

Name

Chang Tse-m

Date

Signature



1.3 Testing laboratory

1.3.1 Location

OATS No.5-1, Shuang Sing Village, LiShuei Rd., Wanli Township, Taipei County 207, Taiwan (R.O.C.) Company Worldwide Testing Services (Taiwan) Co., Ltd. 6F, NO. 58, LANE 188, RUEY-KUANG RD. NEIHU, TAIPEI 114, TAIWAN R.O.C. Tel : 886-2-66068877 Fax : 886-2-66068875

1.3.2 Details of accreditation status

Accredited testing laboratory

A2LA accredited number: 2732.01

FCC filed test laboratory Reg. No. 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1



1.3.3 Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd.

Name:	./.
Accredited number:	./.
Street:	./.
Town:	./.
Country:	./.
Telephone:	./.
Fax:	./.
Teletex:	./.



1.4 Details of applicant

Name:	ROVING NETWORKS, INC.
Street:	809 UNIVERSITY AVENUE. LOS GATOS, CA 95032
City:	./.
Country:	U.S.A.
Telephone:	408-395-6539
Fax:	603-843-7550
Teletex:	./.

1.5 Application details

Date of receipt of test item:	February 18, 2009
Date of test:	from February 19, 2009 to March 18, 2009

1.6 Test item

1.6.1 Description of test item

Type of product:	Bluetooth Module		
Type identification:	RN24		
Multi-listing model number:	./.		
Brand Name:	./.		
Photos:	Please find in Appendix.		
Additional information:	There are two antennas in this test reports. The long one is Antenna A. The short one is Antenna B. The Chip Antenna is Antenna C. Please refer to EUT photos in the appendix.		



1.6.2 Manufacturer (if different from applicant in point 1.4)

Name:	./.
Street:	./.
Town:	./.
Country:	./.
Contact:	./.
Phone:	./.

1.6.3 Frequency behavior

Highest frequency generated in the device or on which the device operates or tunes (MHz)		Upper frequency of measurement range (MHz)
	Below 1.705	30
\square	1.705 - 108	1000
	108 -500	2000
	500 - 1000	5000
	Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

1.7 Test standards

FCC part 15 : July 2008



2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.	×
Or	
The deviations as specified in 2.4 were ascertained in the course of the tests performed.	

2.2 Test environment

Temperature:	18 25 °C
Relative humidity content	20 75 %
Air pressure:	860 1030 hPa
Details of power supply:	3.3 Vdc
Other parameters:	without



Registration number: W6M20902-9574-P-15B

2.3 Test equipment utilized

No.	Test equipment	Туре	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2008/9/18	2009/9/17
ETSTW-CE 002	PREREULATOR MODE DC POWER SUPPLY	None	None	None	Functi	on Test
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Functi	on Test
ETSTW-CE 004	ZWEILEITER-V- NETZNACHBILDUNG TWO- LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2008/9/15	2009/9/14
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2008/9/15	2009/9/14
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2008/5/10	2009/5/09
ETSTW-CE 008	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2008/9/18	2009/9/17
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2008/7/25	2009/7/24
ETSTW-CE 015	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T8-02	20307	FCC	2008/9/22	2009/9/21
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2008/9/24	2009/9/23
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	2007/10/12	2009/10/11
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2008/10/8	2009/10/7
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2008/9/22	2009/9/21
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2008/9/18	2009/9/17
ETSTW-RE 011	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070165	MOTECH	Functi	on Test
ETSTW-RE 017	Log-Periodic Antenna	HL025	352886/001	R&S	2008/5/5	2009/5/4
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2008/10/27	2009/10/26
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Functi	on Test
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2008/8/27	2009/8/26
ETSTW-RE 028	Log-Periodic DipoleArray Antenna	3148	34429	EMCO	2008/4/23	2009/4/22
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2008/4/23	2009/4/22
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2008/3/26	2009/3/25
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2008/9/1	2009/8/31
ETSTW-RE 033	WaveRunner 6000A Serise Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	2008/6/27	2009/6/26
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2008/9/1	2009/8/31
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2009/1/8	2011/1/7
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2008/5/2	2009/5/1
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2008/5/22	2009/5/21
ETSTW-RE 047	ESA-E SERIES SPECTRUM ANALYZER	E4445A	MY46181369	Agilent	2008/6/26	2009/6/25
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2008/9/1	2009/8/31
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2007/5/2	2009/5/1
ETSTW-RE 055	SPECTRUM ANALYZER	FSU-26	200074	R&S	2008/7/1	2009/6/30
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	2008/9/1	2009/8/31
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2008/10/28	2009/10/27



ETSTW-RE 105	Match Pad	MDCS1500	None	WOKEN	2008/10/9	2009/10/8
ETSTW-RE 106	Match Pad	MDCS1510	None	WOKEN	2008/10/9	2009/10/8
ETSTW-RE 107	LUMPED ELEMENT POWER DIVIDER	PL2-10	146	MCLI	2008/11/24	2009/11/23
ETSTW-GSM 02	Universal Radio Communication Tester	CMU 200	109439	R&S	2008/9/23	2009/9/22
ETSTW-GSM 23	Power Divider	4901.19.A	None	SUHNER	2008/9/22	2009/9/21



2.4 Test results

 \checkmark 1st test \Box tes

□ test after modification

 \Box production test

Test Emission / Imi	Done	Test passed	Test failed		
Emission	Radiated Emission	FCC part 15.109 Class B	X	X	
Emission	Conducted Emission	FCC part 15.107 Class B	×	×	

(The follows intended to leave blank.)



Registration number: W6M20902-9574-P-15B

2.4.1 Radiated Emission

2.4.1.1 Test Equipment

a) Biconical Antenna (HK116)

For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 042 b) Log-Periodic Dipole Antenna (HL223)

- For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 043 c) EMI TEST RECEIVER (ESI-26)
- For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 003 d) EMI TEST RECEIVER (ESI 40)
- For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 004 e) Log-Periodic Antenna (HL025)
- For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 017 f) Log-Periodic DipoleArray Antenna (3148)
- For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 028 g) Biconical Antenna (3109)
- For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 029 h) Double-Ridged Waveguide Horm Antenna (3117)
 - For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-RE 030

2.4.1.2 Test Procedures

• Test configuration

The test configuration corresponds to the standard ANSI C63.4. The equipment under test is placed on a non metallic table with 0.8m height. The power supply and the RF connection points are close to the equipment under test at the floor inside a connection box. The cables to this connection box are shielded and below the double floor. The receiving antenna is placed in a height at 1.0 to 4.0m, in a distance of 3m. The measurement receiver is placed in a special room. The observation of the equipment under test is realized by 3 video cameras and by a microphone.

• Test parameters and marginal conditions

The test is carried out with horizontal and vertical polarization of the antenna in a frequency range of 30 MHz to 12750 MHz. Further information please find in the test protocol.



2.4.2 Conducted Emission

2.4.2.1 Test Equipment

- a) ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK (ESH3-Z5) For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-CE 004
- b) IMPULS-BEGRENZER PULSE LIMITER (ESH3-Z2) For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-CE 006
- c) EMI TEST RECEIVER (ESHS10) For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-CE 001

d) AC Power Source (APS-9102) For your reference please find it in our test equipment list at page 9 to 10 as number : ETSTW-CE 003

• Test configuration

The test configuration is contained inside of a shielded chamber and corresponds to the standard ANSI C63.4. The equipment under test is placed in the facility on a wooden table 0.8m height. The equipment under test is connected with the artificial mains network (AMN) in a distance of 0.8m and also 0.8m from other subassembly and metallic area. The measurement receiver is placed in a special room adjacent to the chamber. The observation of the equipment under test is realized by 3 video cameras and by a microphone.

• Test parameters and marginal conditions

The tests are carried out with nominal impedance by $50\Omega / 50\mu$ H of the AMN in a frequency range 150 kHz to 30 MHz. This measurement was transacted first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector, further information please find in test report.



2.5 Test protocols

2.5.1 Radiated Emission

Radio Noise Field Strength

Emission

Model: Mode:	RN24 Digital Part_Antenna A			Date: Temperature Humidity:		°C	Engineer:	Danny
Polarization:	Polarization: Horizontal				51	%		
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
47.856	23.26	peak	13.60	36.86	40.00	-3.14	110	390
96.012	28.50	peak	11.10	39.60	43.50	-3.90	105	365
233.988	29.01	peak	13.26	42.27	46.00	-3.73	115	290
333.667	18.59	peak	16.20	34.79	46.00	-11.21	120	245
399.599	17.66	peak	17.78	35.44	46.00	-10.56	125	230
716.633	14.24	peak	23.89	38.13	46.00	-7.87	130	160

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	25.73	peak	11.10	36.83	43.50	-6.67	110	135
200.441	24.82	peak	12.15	36.97	43.50	-6.53	115	195
208.016	24.05	peak	12.30	36.35	43.50	-7.15	105	200
332.264	20.40	peak	16.16	36.56	46.00	-9.44	125	255
499.198	17.09	peak	19.80	36.89	46.00	-9.11	120	290
716.633	14.16	peak	23.89	38.05	46.00	-7.95	130	340

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
47.856	22.99	peak	13.60	36.59	40.00	-3.41	105	390
96.012	28.03	peak	11.10	39.13	43.50	-4.37	110	365
232.906	29.50	peak	13.20	42.70	46.00	-3.30	115	285
447.295	16.59	peak	18.87	35.46	46.00	-10.54	120	215
716.633	16.40	peak	23.89	40.29	46.00	-5.71	120	160
913.026	8.73	peak	26.54	35.27	46.00	-10.73	125	120



Registration number: W6M20902-9574-P-15B

 Polarization:	Vertical							
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	26.57	peak	11.10	37.67	43.50	-5.83	110	135
192.325	20.26	peak	12.62	32.88	43.50	-10.62	115	190
200.441	24.49	peak	12.15	36.64	43.50	-6.86	105	195
716.633	13.73	peak	23.89	37.62	46.00	-8.38	120	340
748.898	12.28	peak	24.66	36.94	46.00	-9.06	125	345
913.026	10.85	peak	26.54	37.39	46.00	-8.61	130	380

Polarization: Vertical

Mode: Digital Part_Antenna C

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
73.828	23.50	peak	11.27	34.77	40.00	-5.23	110	380
192.325	25.42	peak	12.62	38.04	43.50	-5.46	100	310
220.461	28.55	peak	12.55	41.10	46.00	-4.90	105	290
301.403	22.20	peak	15.28	37.48	46.00	-8.52	130	250
597.395	14.81	peak	22.10	36.91	46.00	-9.09	120	185
671.744	13.59	peak	22.93	36.52	46.00	-9.48	125	170

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	24.78	peak	11.10	35.88	43.50	-7.62	105	140
166.353	21.64	peak	15.15	36.79	43.50	-6.71	110	175
224.249	28.06	peak	12.75	40.81	46.00	-5.19	105	210
671.744	11.34	peak	22.93	34.27	46.00	-11.73	120	330
877.956	12.05	peak	25.80	37.85	46.00	-8.15	125	375
1000.000	10.47	peak	27.40	37.87	54.00	-16.13	130	400

Mode:	CH0 RX	_Antenna A
-------	--------	------------

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	29.70	peak	11.10	40.80	43.50	-2.70	100	150
233.447	30.34	peak	13.23	43.57	46.00	-2.43	110	150
716.633	14.32	peak	23.89	38.21	46.00	-7.79	120	150
913.026	10.13	peak	26.54	36.67	46.00	-9.33	130	150



Registration number: W6M20902-9574-P-15B

T	Frequency	Reading		Factor	Result	@3m	Limit @3n		Margin	Table	Ant.
		(dBuV)		(dB)	(dBu	V/m)	(dBuV/m)			Degree	High
	(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
	1601.202	58.91		-9.40	49.51		74.00	54.00	-24.49	135	150
	2400.802	51.34		-5.10	46.24		74.00	54.00	-27.76	140	150

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	27.41	peak	11.10	38.51	43.50	-4.99	110	150
133.888	24.81	peak	14.37	39.18	43.50	-4.32	105	150
500.601	17.07	peak	19.82	36.89	46.00	-9.11	125	150
913.026	11.45	peak	26.54	37.99	46.00	-8.01	120	150

Frequency	Read	ding	Factor	Result @3m		Limit @3m		Margin	Table	Ant.
	(dB	uV)	(dB)	(dBuV/m)		(dBuV/m)Pea			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	k	Ave.	(dB)	(Deg.)	(cm)
1601.202	54.18		-9.40	44.78		74.00	54.00	-29.22	130	150
2400.802	49.75		-5.10	44.65		74.00	54.00	-29.35	135	150

Mode: CH39 RX _Antenna A Polarization: Horizontal

1 olulization.	Homzoniai							
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
47.856	23.26	peak	13.60	36.86	40.00	-3.14	100	150
233.988	29.01	peak	13.26	42.27	46.00	-3.73	105	150
399.599	17.66	peak	17.78	35.44	46.00	-10.56	130	150
716.633	14.24	peak	23.89	38.13	46.00	-7.87	125	150

Frequency	Reading		Factor	Result	Result @3m		@3m	Margin	Table	Ant.
	(dB	uV)	(dB)	(dBu	(dBuV/m)		(dBuV/m)		Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1625.251	58.98		-9.30	49.68		74.00	54.00	-24.32	135	150
2436.874	51.88		-5.10	46.78		74.00	54.00	-27.22	140	150



Registration number: W6M20902-9574-P-15B

Polalization.	Ventical									
Frequency (MHz)	Reading (dBuV)	Detecto	r Fact (dE		Result (dBuV/m	l)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	25.73	peak	11.1	10	36.83		43.50	-6.67	105	150
200.441	24.82	peak	12.1	15	36.97		43.50	-6.53	110	150
716.633	14.16	peak	23.8	39	38.05		46.00	-7.95	125	150
913.026	11.29	peak	26.5	54	37.83		46.00	-8.17	120	150
Frequency	Readir	ng I	Factor	R	esult @3m	Li	mit @3m	Margin	Table	Ant.

Polarization: Vertical

У	Read	ding	Factor	Result @3m		Limit	@3m	Margin	Table	Ant.
	(dB	uV)	(dB)	(dBuV/m)		(dBuV/m)			Degree	High
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
	54.21		-9.30	44.91		74.00	54.00	-29.09	140	150
r	51.24		-5.10	46.14		74.00	54.00	-27.86	130	150
	y L	(dB Peak 54.21	(dBuV) Peak Ave. 54.21	(dBuV) (dB) Peak Ave. Corr. 54.21 -9.30	(dBuV) (dB) (dBu Peak Ave. Corr. Peak 54.21 -9.30 44.91	(dBuV) (dB) (dBuV/m) Peak Ave. Corr. Peak Ave. 54.21 -9.30 44.91	(dBuV) (dB) (dBuV/m) (dBu Peak Ave. Corr. Peak Ave. Peak 54.21 -9.30 44.91 74.00	(dBuV) (dB) (dBuV/m) (dBuV/m) Peak Ave. Corr. Peak Ave. Peak Ave. 54.21 -9.30 44.91 74.00 54.00	(dBuV) (dB) (dBuV/m) (dBuV/m) (dBuV/m) Peak Ave. Corr. Peak Ave. Peak Ave. (dB) 54.21 -9.30 44.91 74.00 54.00 -29.09	(dBuV) (dB) (dBuV/m) (dBuV/m) (dBuV/m) Degree Peak Ave. Corr. Peak Ave. Peak Ave. (dB) (Deg.) 54.21 -9.30 44.91 74.00 54.00 -29.09 140

Mode: CH78 RX _Antenna A Polarization: Horizontal

POTATIZA	Polarization. Horizontal												
Frequer (MHz		Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)				
96.01	2	28.64	peak	11.10	39.74	43.50	-3.76	105	150				
233.98	88	28.94	peak	13.26	42.20	46.00	-3.80	115	150				
698.39	97	12.80	peak	23.40	36.20	46.00	-9.80	130	150				
782.56	55	11.86	peak	24.87	36.73	46.00	-9.27	125	150				

Polarization: Horizontal

Frequency	Reading		Factor	Result	@3m	Limit	@3m	Margin	Table	Ant.
	(dB	uV)	(dB)	(dBu	V/m)	(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1649.299	59.11		-9.20	49.91		74.00	54.00	-24.09	140	150
2478.958	51.58		-5.10	46.48		74.00	54.00	-27.52	135	150

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	26.63	peak	11.10	37.73	43.50	-5.77	110	150
192.325	23.60	peak	12.62	36.22	43.50	-7.28	100	150
500.601	17.04	peak	19.82	36.86	46.00	-9.14	120	150
913.026	11.38	peak	26.54	37.92	46.00	-8.08	125	150



Registration number: W6M20902-9574-P-15B

Frequency	Rea	ding	Factor Result @3m		Limit	Limit @3m		Table	Ant.	
	(dB	uV)	(dB)	(dBu	(dBuV/m) (d		(dBuV/m)		Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1649.299	55.54		-9.20	46.34		74.00	54.00	-27.66	140	150
2478.958	47.93		-5.10	42.83		74.00	54.00	-31.17	145	150

Mode:	CH0 RX	_Antenna B
Polarization	Horizontal	

Polarization: Horizontal											
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
47.856	23.07	peak	13.60	36.67	40.00	-3.33	110	150			
233.988	29.28	peak	13.26	42.54	46.00	-3.46	115	150			
696.994	12.19	peak	23.37	35.56	46.00	-10.44	125	150			
716.633	14.31	peak	23.89	38.20	46.00	-7.80	130	150			

Frequency	Rea	ding	Factor	Result	Result @3m		Limit @3m		Table	Ant.
	(dB	uV)	(dB)	(dBuV/m)		(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1601.202	59.43		-9.40	50.03		74.00	54.00	-23.97	130	150
2400.802	51.39		-5.10	46.29		74.00	54.00	-27.71	135	150

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	26.29	peak	11.10	37.39	43.50	-6.11	110	150
200.441	24.46	peak	12.15	36.61	43.50	-6.89	105	150
716.633	13.02	peak	23.89	36.91	46.00	-9.09	125	150
913.026	11.52	peak	26.54	38.06	46.00	-7.94	120	150

Frequency	Read	ding	Factor	Result	Result @3m		Limit @3m		Table	Ant.
	(dB	uV)	(dB)	(dBuV/m)		(dBuV/m)Pea			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	k	Ave.	(dB)	(Deg.)	(cm)
1601.202	49.93		-9.40	40.53		74.00	54.00	-33.47	135	150
2400.802	48.38		-5.10	43.28		74.00	54.00	-30.72	140	150



Registration number: W6M20902-9574-P-15B

Mode: Polarization:	Mode: CH39 RX _Antenna B Polarization: Horizontal												
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	r Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)					
47.856	22.99	peak	13.60	36.59	40.00	-3.41	100	150					
232.906	29.50	peak	13.20	42.70	46.00	-3.30	110	150					
447.295	16.59	peak	18.87	35.46	46.00	-10.54	130	150					
716.633	16.40	peak	23.89	40.29	46.00	-5.71	125	150					
Fraguanay	Doodin		notor	Dogult @3m	Limit @3m	Morgin	Tabla	Ant					

Frequency	Reading		Factor	Result	@3m	Limit @3m		Margin	Table	Ant.
	(dB	(dBuV)		(dBuV/m)		(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1625.251	59.74		-9.30	50.44		74.00	54.00	-23.56	135	150
2436.874	50.83		-5.10	45.73		74.00	54.00	-28.27	130	150

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	26.57	peak	11.10	37.67	43.50	-5.83	110	150
200.441	24.49	peak	12.15	36.64	43.50	-6.86	105	150
716.633	13.73	peak	23.89	37.62	46.00	-8.38	120	150
913.026	10.85	peak	26.54	37.39	46.00	-8.61	125	150

Frequency	Read	ding	Factor	or Result @3m		Limit @3m		Margin	Table	Ant.
	(dB	uV)	(dB)	(dBu	V/m)	(dBu	V/m)		Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1625.251	53.90		-9.30	44.60		74.00	54.00	-29.40	140	150
2436.874	49.51		-5.10	44.41		74.00	54.00	-29.59	130	150

Mode:	CH78 RX	_Antenna B
Polarization:	Horizontal	

I OluliZation.								
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
47.856	23.42	peak	13.60	37.02	40.00	-2.98	105	150
233.988	29.31	peak	13.26	42.57	46.00	-3.43	110	150
716.633	16.55	peak	23.89	40.44	46.00	-5.56	130	150
913.026	9.23	peak	26.54	35.77	46.00	-10.23	130	150



Registration number: W6M20902-9574-P-15B

Polarization:	Homzon	llal								
Frequency	Read	ding	Factor	Result @3m		Limit @3m		Margin	Table	Ant.
	(dB	uV)	(dB)	(dBuV/m)		(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1649.299	59.49		-9.20	50.29		74.00	54.00	-23.71	135	150
2478.958	51.67		-5.10	46.57		74.00	54.00	-27.43	130	150

Polarization: Horizontal

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	26.13	peak	11.10	37.23	43.50	-6.27	110	150
200.441	24.89	peak	12.15	37.04	43.50	-6.46	100	150
716.633	14.13	peak	23.89	38.02	46.00	-7.98	120	150
913.026	11.82	peak	26.54	38.36	46.00	-7.64	125	150

Frequency	Read	ding	Factor Result @3		@3m	Limit @3m		Margin	Table	Ant.
	(dB	uV)	(dB)	(dBuV/m)		(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak Ave.		(dB)	(Deg.)	(cm)
1649.299	55.68		-9.20	46.48		74.00	54.00	-27.52	140	150
2478.958	46.81		-5.10	41.71		74.00	54.00	-32.29	145	150

Mode: CH0 RX _Antenna C Polarization: Horizontal

I Olalization.	TIOTIZOIItai							
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
200.441	27.82	peak	12.15	39.97	43.50	-3.53	110	150
221.002	28.97	peak	12.58	41.55	46.00	-4.45	100	150
300.000	21.66	peak	15.24	36.90	46.00	-9.10	125	150
877.956	12.63	peak	25.80	38.43	46.00	-7.57	130	150

Polarization: Horizontal

Frequency	Reading		Factor	Result @3m		Limit @3m		Margin	Table	Ant.
	(dB	uV)	(dB)	(dBuV/m)		(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1601.202	61.11		-11.21	49.90		74.00	54.00	-24.10	140	150
7831.663	40.88		2.70	43.58		74.00	54.00	-30.42	120	150



Registration number: W6M20902-9574-P-15B

T Utat iZation.	Ventical												
Frequency (MHz)	Reading (dBuV)	Detec	ctor	Fact (dE			esult uV/m)	Lim (dBuV			largin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	26.10	pea	peak		10	3	7.20	43.50		_	6.30	110	150
218.838	25.52	pea	k	12.5	51	3	8.03	46.0	0	_	7.97	105	150
384.168	16.60	pea	k	17.3	37	3	3.97	46.0	0	-	12.03	125	150
879.359	12.14	pea	k	x 25.82		3	7.96	46.0	0	_	8.04	130	150
Frequency	Read	ing	Fa	ctor	Res	sult	@3m	Limit	@3m		Margir	n Table	Ant.
	(dBu	V)	(ċ	lB)	(d]	Bu	V/m)	(dBu	V/m)			Degree	High
(MHz)	Peak	Ave.	C	orr.	Peal	k	Ave.	Peak	Ave.		(dB)	(Deg.)	(cm)
1601.202	59.51		-11	1.21	48.3	30		74.00	54.0	0	-25.70	145	150
7847.695	41.00		2.	.70	43.7	70		74.00	54.0	0	-30.30	130	150

Polarization: Vertical

Mode:	CH39 RX	_Antenna C
Dolorization	Uorizontal	

Polarization:	Polarization: Horizontal												
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)					
200.441	26.89	peak	12.15	39.04	43.50	-4.46	105	150					
209.098	26.61	peak	12.32	38.93	43.50	-4.57	115	150					
671.744	13.89	peak	22.93	36.82	46.00	-9.18	130	150					
875.150	11.42	peak	25.74	37.16	46.00	-8.84	125	150					

Frequency	Reading		Factor	Result	@3m	Limit	@3m	Margin	Table	Ant.
	(dB	uV)	(dB)	(dBu	V/m)	(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1625.251	58.94		-11.05	47.89		74.00	54.00	-26.11	135	150
7815.631	40.57		2.70	43.27		74.00	54.00	-30.73	140	150

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	26.82	peak	11.10	37.92	43.50	-5.58	110	150
224.249	28.73	peak	12.75	41.48	46.00	-4.52	100	150
879.359	13.85	peak	25.82	39.67	46.00	-6.33	115	150
897.595	9.84	peak	26.17	36.01	46.00	-9.99	125	150



Registration number: W6M20902-9574-P-15B

Frequency	Read	ding	Factor	Result @3m		Limit	Limit @3m		Table	Ant.
	(dB	uV)	(dB)	(dBu	V/m)	(dBu	V/m)		Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1625.251	58.73		-11.05	47.68		74.00	54.00	-26.32	135	150
7919.840	40.88		2.70	43.58		74.00	54.00	-30.42	140	150

Mode: CH78 RX _Antenna C

Polarization:	Polarization: Horizontal													
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)						
73.828	23.03	peak	11.27	34.30	40.00	-5.70	105	150						
219.920	28.08	peak	12.53	40.61	46.00	-5.39	115	150						
302.806	21.76	peak	15.33	37.09	46.00	-8.91	125	150						
879.359	12.96	peak	25.82	38.78	46.00	-7.22	130	150						

Frequency	Reading		Factor	Result	@3m	Limit	Limit @3m		Table	Ant.
	(dB	uV)	(dB)	(dBu	V/m)	(dBuV/m)			Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1649.299	61.17		-10.88	50.29		74.00	54.00	-23.71	140	150
7735.471	40.98		2.70	43.68		74.00	54.00	-30.32	140	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
96.012	27.26	peak	11.10	38.36	43.50	-5.14	100	150
224.249	29.44	peak	12.75	42.19	46.00	-3.81	110	150
384.168	16.93	peak	17.37	34.30	46.00	-11.70	130	150
877.956	13.61	peak	25.80	39.41	46.00	-6.59	120	150

Frequency	Read	ding	Factor	Result @3m		Limit @3m		Margin	Table	Ant.
	(dB	uV)	(dB)	(dBu	V/m)	(dBu	V/m)		Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1649.299	58.60		-10.88	47.72		74.00	54.00	-26.28	145	150
7679.359	41.12		2.70	43.82		74.00	54.00	-30.18	130	150

Note: 1. Correction Factor = Antenna factor + Cable loss - Preamplifier

- 2. The formula of measured value as: Test Result = Reading + Correction Factor
- **3.** Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
- 4. All not in the table noted test results are more than 20 dB below the relevant limits.
- 5. See the attached diagram as appendix.



2.5.2 Conducted Emission

Conducted Emission

Emission

Model:	RN24	Da	ate:	2009/2	2/23			
Mode:	Antenna	A Te	mperature:	24	°C	Engi	neer:	Danny
Polarization:	Ν	H	Iumidity:	51	51 %			
Frequency	Rea	ding	Factor	Result		Limit		Margin
	(dB	uV)	(dB)	(dBuV)		(dBuV)		
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)
0.1500	33.95	9.80	10.19	44.14	19.99	66.00	56.00	-21.86
0.2010	42.99	34.35	10.07	53.06	44.42	63.57	53.57	-9.15
0.5350	25.17		10.17	35.34		56.00		-20.66
3.6850	22.94		10.13	33.07		56.00		-22.93
5.5556	26.75		10.14	36.89		60.00		-23.11
15.5556	30.24		10.44	40.68		60.00		-19.32

Polarization: L1

Frequency	Rea	Reading		Re	sult	Liı	mit	Margin
	(dB	(dBuV)		(dBuV)		(dBuV)		
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)
0.1500	32.53	7.92	10.19	42.72	18.11	66.00	56.00	-23.28
0.2000	42.11	32.75	10.07	52.18	42.82	63.61	53.61	-10.79
0.5350	23.22		10.17	33.39		56.00		-22.61
3.5500	22.53		10.12	32.65		56.00		-23.35
5.3611	24.74		10.13	34.87		60.00		-25.13
15.9444	31.40		10.45	41.85		60.00		-18.15



Registration number: W6M20902-9574-P-15B

1110000	1 momu	D						
Polarization:	Ν							
Frequency	Rea	Reading		Result		Limit		Margin
	(dB	(dBuV)		(dBuV)		(dBuV)		
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)
0.1508	43.71		10.19	53.90		65.96		-12.06
0.1986	42.32		10.07	52.39		63.67		-11.28
1.0050	26.62		10.10	36.72		56.00		-19.28
1.3350	26.90		10.09	36.99		56.00		-19.01
9.3611	25.10		10.49	35.59		60.00		-24.41
15.8611	28.02		10.45	38.47		60.00		-21.53

Mode: Antenna B

Polarization: L1

Frequency	Reading		Factor	Result		Limit		Margin
	(dBuV)		(dB)	(dBuV)		(dBuV)		
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)
0.1504	44.32		10.19	54.51		65.98		-11.47
0.2010	41.19	31.33	10.07	51.26	41.40	63.57	53.57	-12.17
0.5350	22.92		10.17	33.09		56.00		-22.91
2.4750	22.56		10.07	32.63		56.00		-23.37
5.4167	22.79		10.13	32.92		60.00		-27.08
14.4722	31.09		10.45	41.54		60.00		-18.46

Polarization: N										
Frequency	Reading		Factor	Result		Limit		Margin		
	(dBuV)		(dB)	(dBuV)		(dBuV)				
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)		
0.1508	43.71		10.19	53.90		65.96		-12.06		
0.1986	42.32		10.07	52.39		63.67		-11.28		
1.0050	26.62		10.10	36.72		56.00		-19.28		
1.3350	26.90		10.09	36.99		56.00		-19.01		
9.3611	25.10		10.49	35.59		60.00		-24.41		
15.8611	28.02		10.45	38.47		60.00		-21.53		



Registration number: W6M20902-9574-P-15B

Polarization: L1										
Frequency	Reading		Factor	Result		Limit		Margin		
	(dBuV)		(dB)	(dBuV)		(dBuV)				
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)		
0.1504	44.32		10.19	54.51		65.98		-11.47		
0.2010	41.19	31.33	10.07	51.26	41.40	63.57	53.57	-12.17		
0.5350	22.92		10.17	33.09		56.00		-22.91		
2.4750	22.56		10.07	32.63		56.00		-23.37		
5.4167	22.79		10.13	32.92		60.00		-27.08		
14.4722	31.09		10.45	41.54		60.00		-18.46		
	Frequency (MHz) 0.1504 0.2010 0.5350 2.4750 5.4167	Frequency Read (dB) (MHz) QP 0.1504 44.32 0.2010 41.19 0.5350 22.92 2.4750 22.56 5.4167 22.79	Frequency Reading (dBuV) (MHz) QP Ave. 0.1504 44.32 0.2010 41.19 31.33 0.5350 22.92 2.4750 22.56 5.4167 22.79	FrequencyReading (dBuV)Factor (dB)(MHz)QPAve.Corr.0.150444.3210.190.201041.1931.3310.070.535022.9210.172.475022.5610.075.416722.7910.13	Frequency Reading (dBuV) Factor (dB) Reading (dB) (MHz) QP Ave. Corr. QP 0.1504 44.32 10.19 54.51 0.2010 41.19 31.33 10.07 51.26 0.5350 22.92 10.17 33.09 2.4750 22.56 10.07 32.63 5.4167 22.79 10.13 32.92	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		

Note 1. The formula of measured value as: Test Result = Reading + Correction Factor 2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss 2. Detector for stimula the formula DV = Detector for the AV

3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average

4. All not in the table noted test results are more than 20 dB below the relevant limits.5. See attached diagrams as appendix.



2.6 Equipment Modification

No modification was made to pass all tests.



3 Normative references

- /1/ FCC part 15 Radio Frequency Devises
- ANSI STANDARD C63.4-2003
 American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz



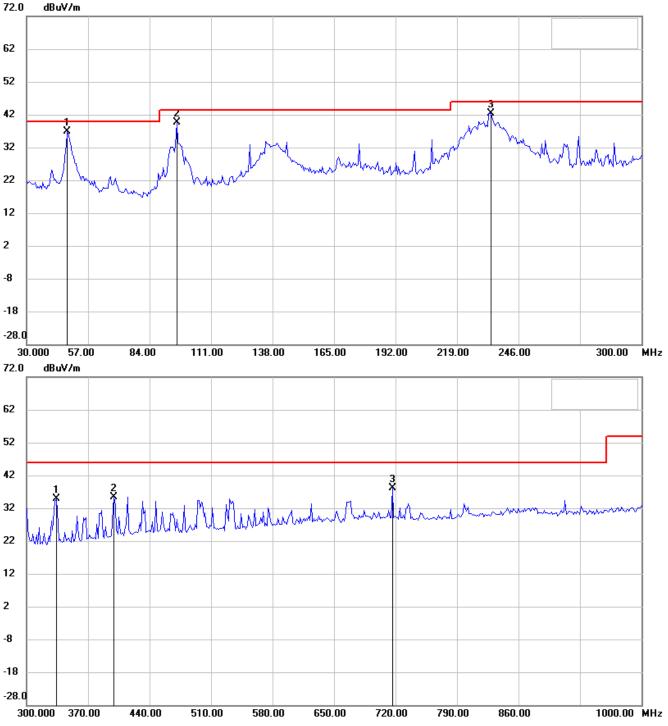
Appendix

Measurement diagrams

- 1. Radiated Emission
- 2. Conducted Emission

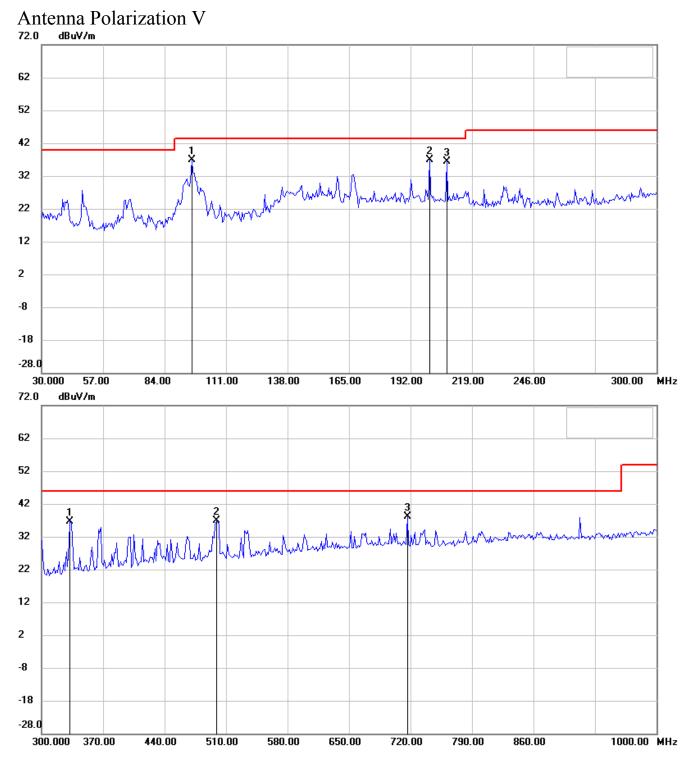


Radiated Emission Digital Part_Antenna A Antenna Polarization H 72.0 dBuV/m



- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

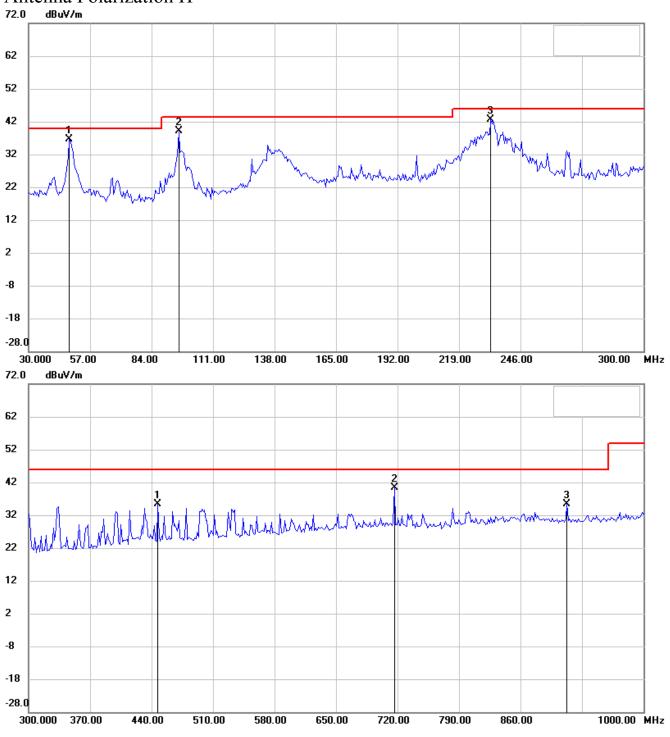




- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

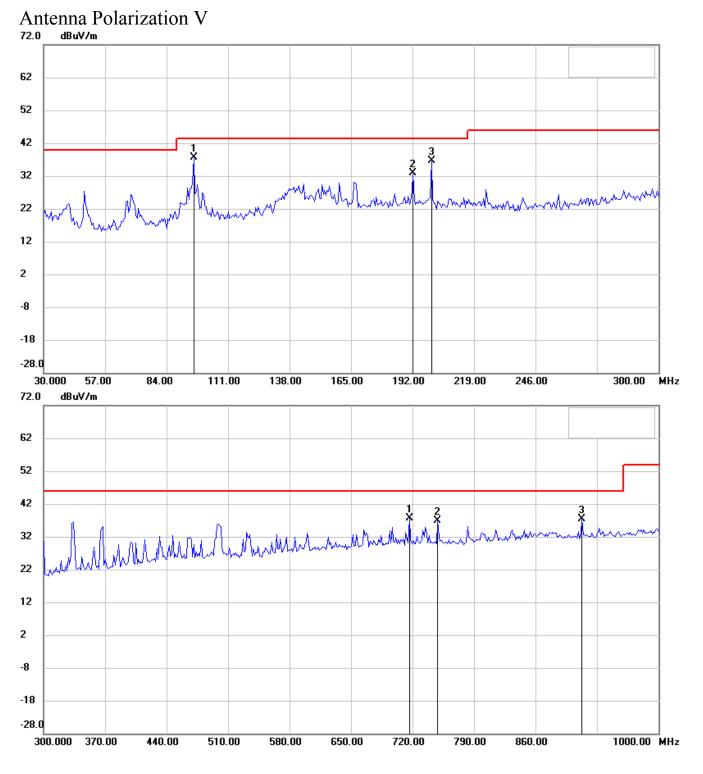


Digital Part_Antenna B Antenna Polarization H



- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

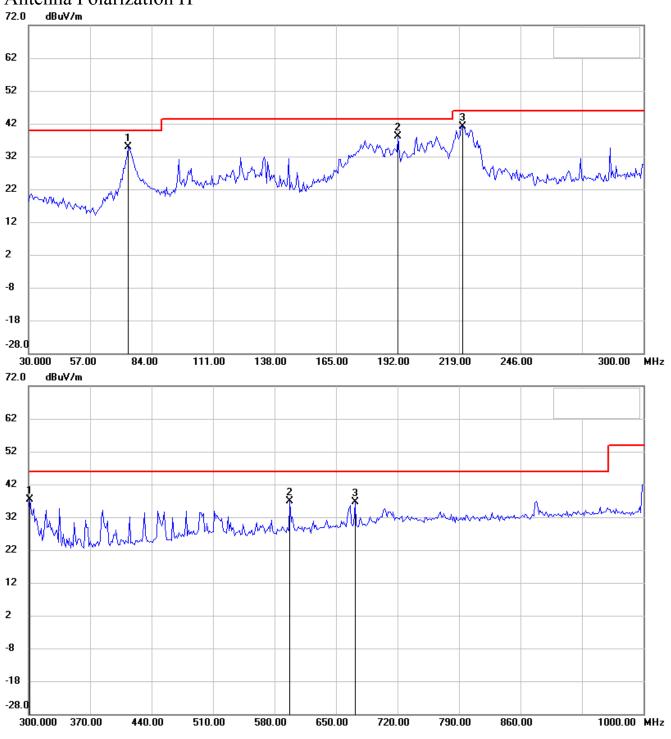




- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

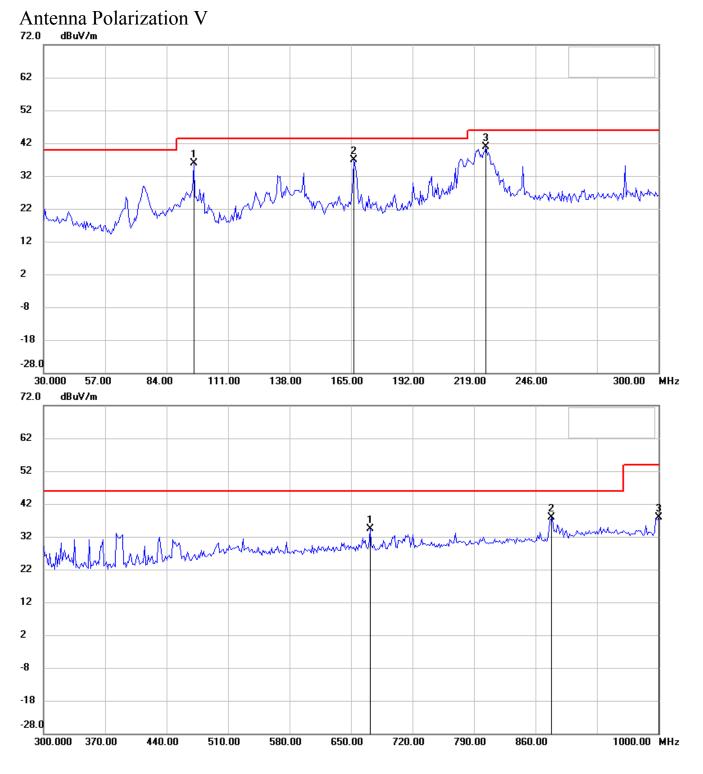


Digital Part_Antenna C Antenna Polarization H



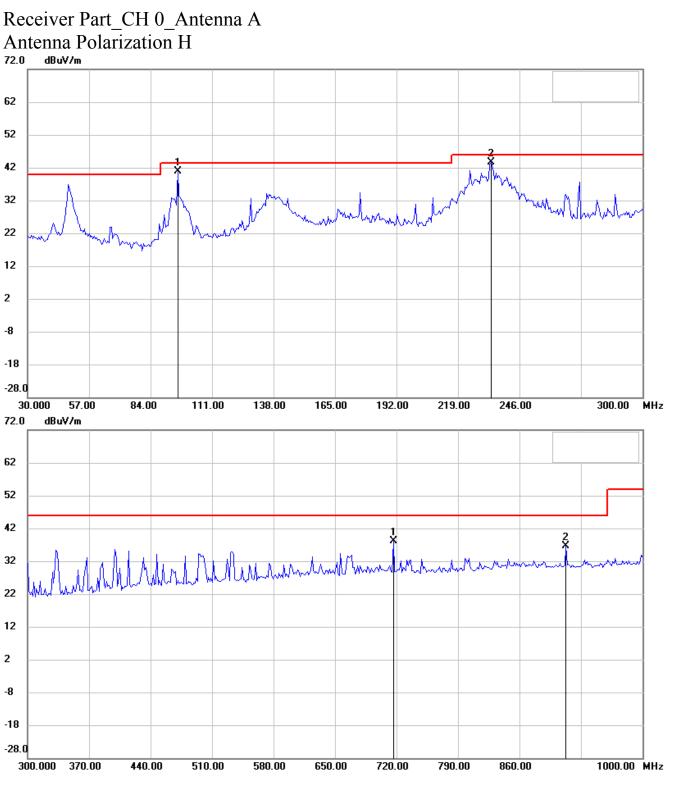
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

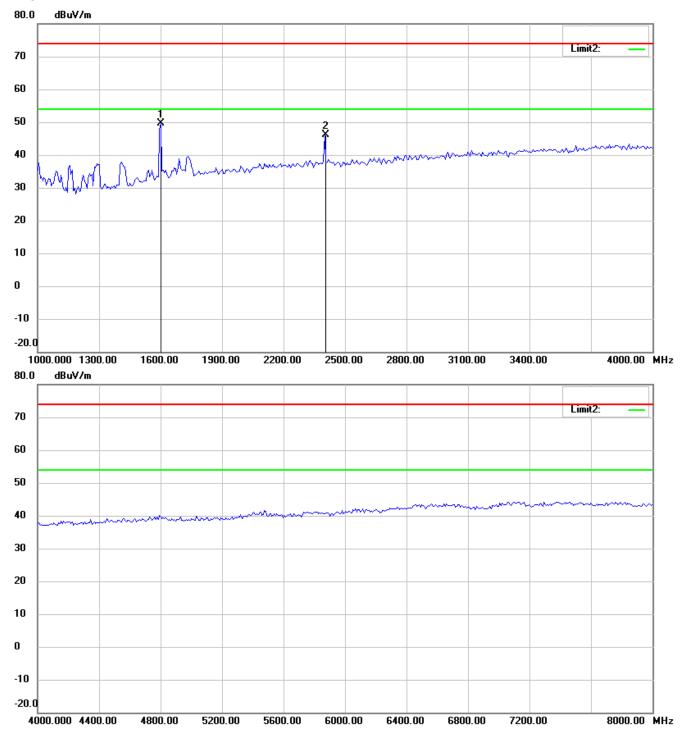




Up Line: Peak Limit Line Down Line: Ave Limit Line

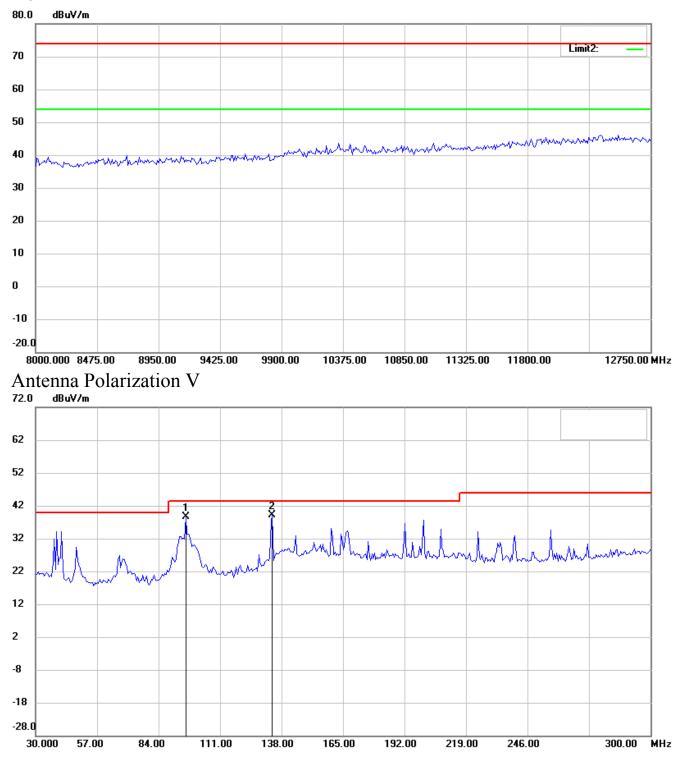
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





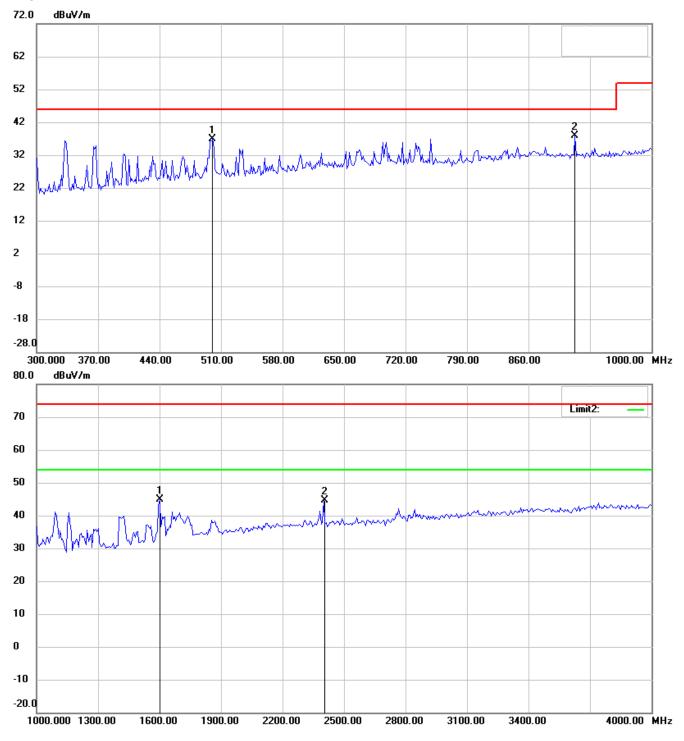
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





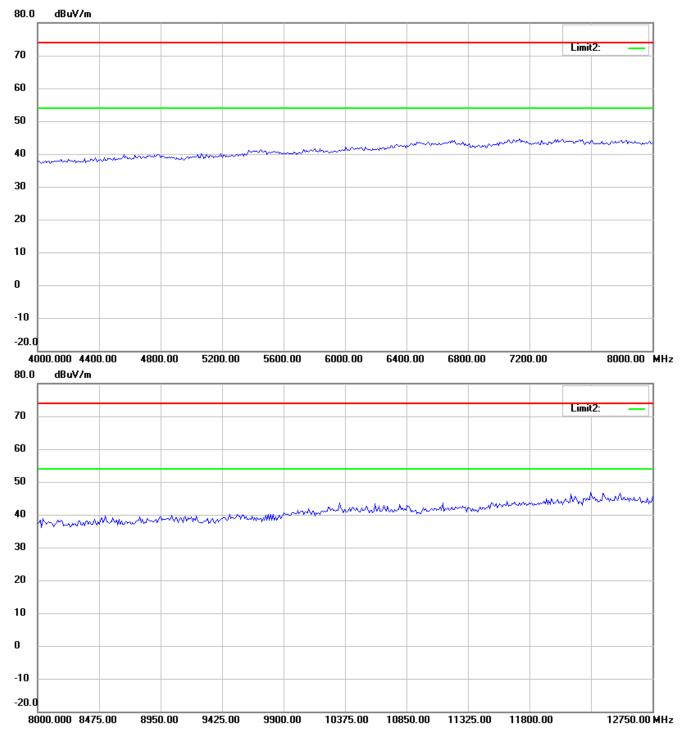
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





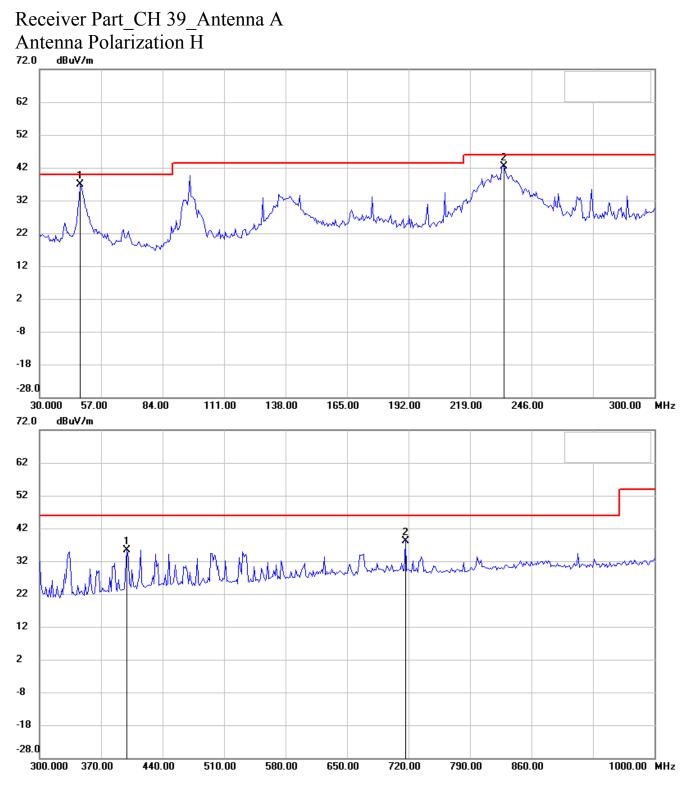
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



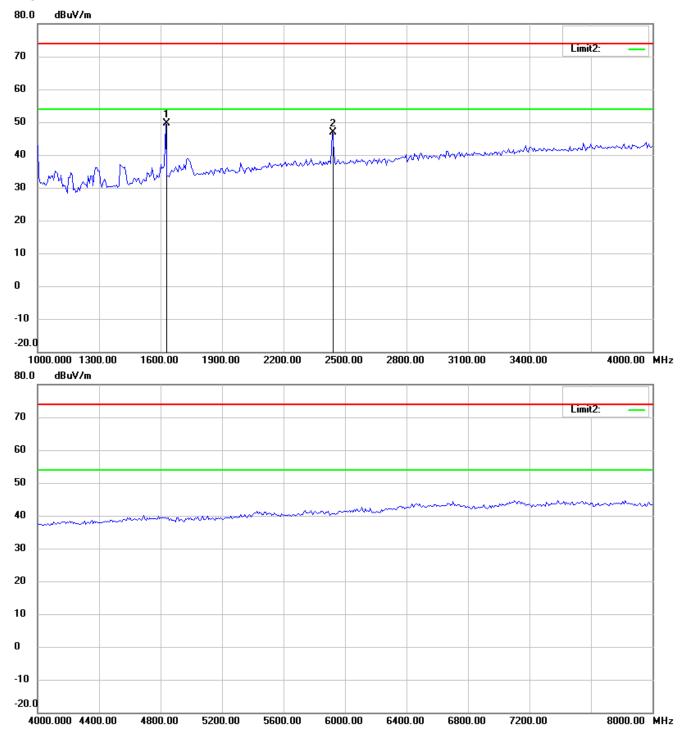


Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

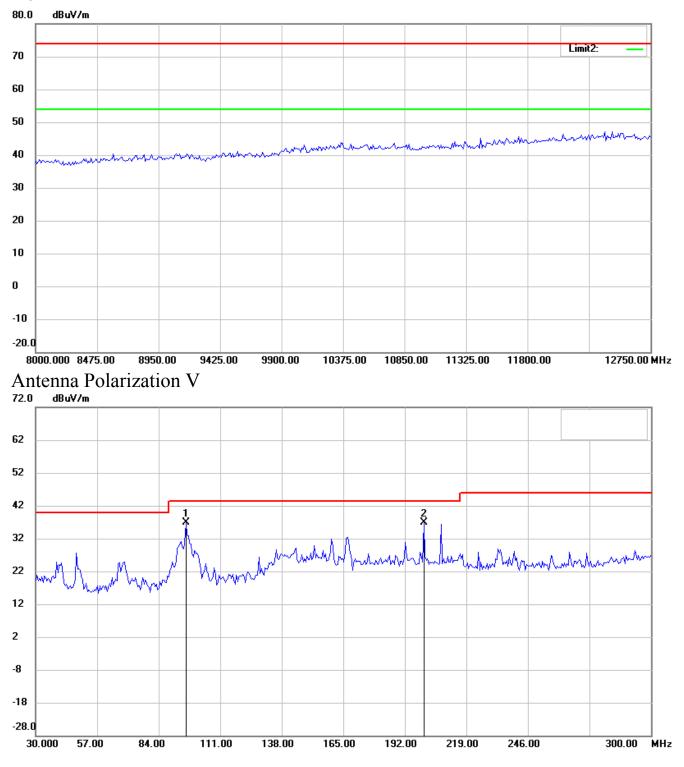
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





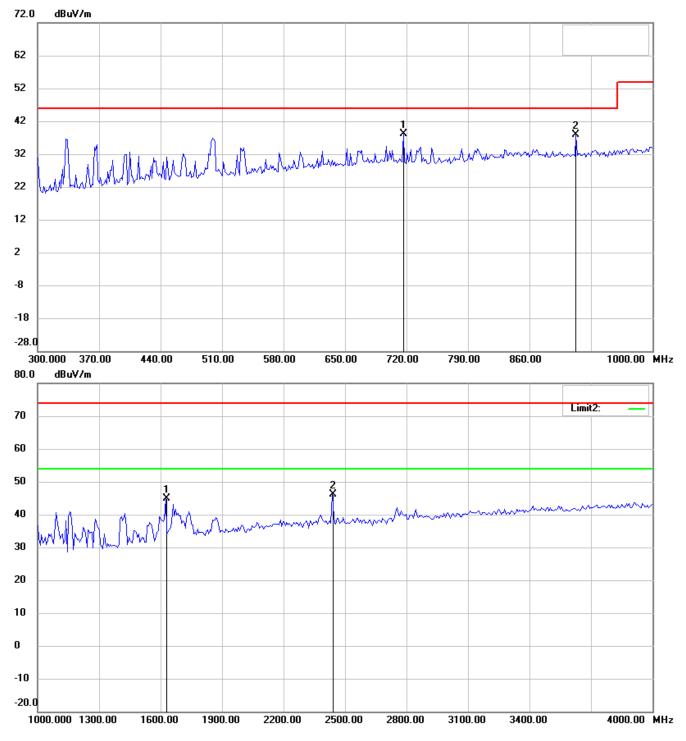
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





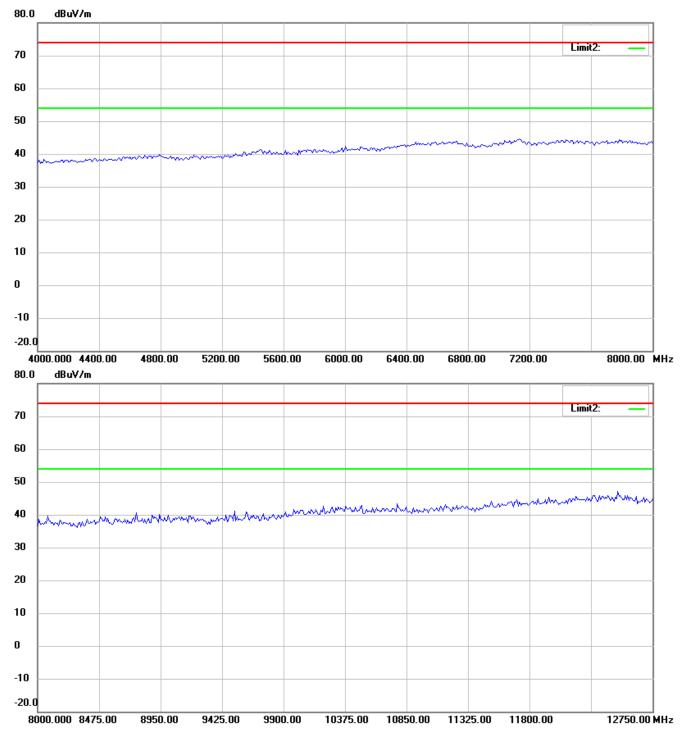
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





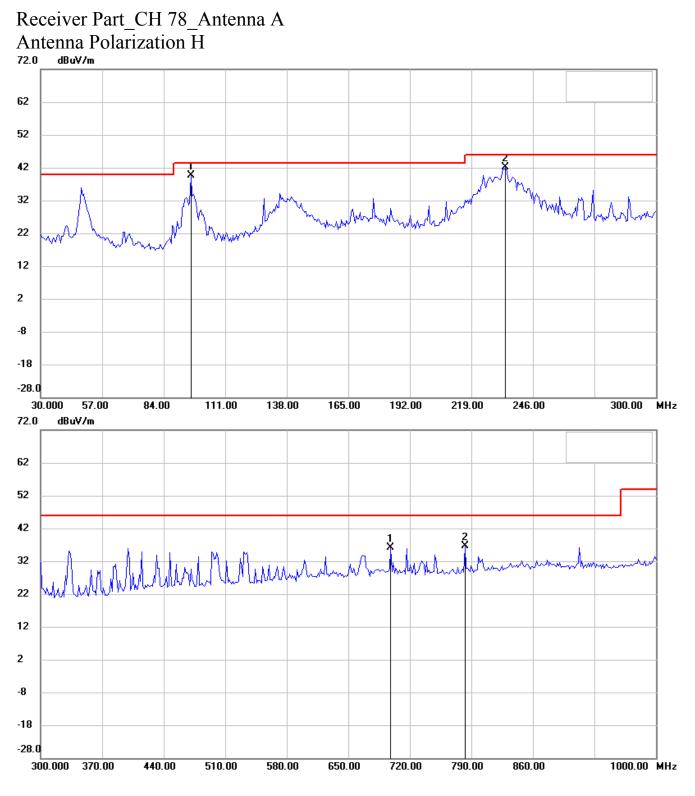
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



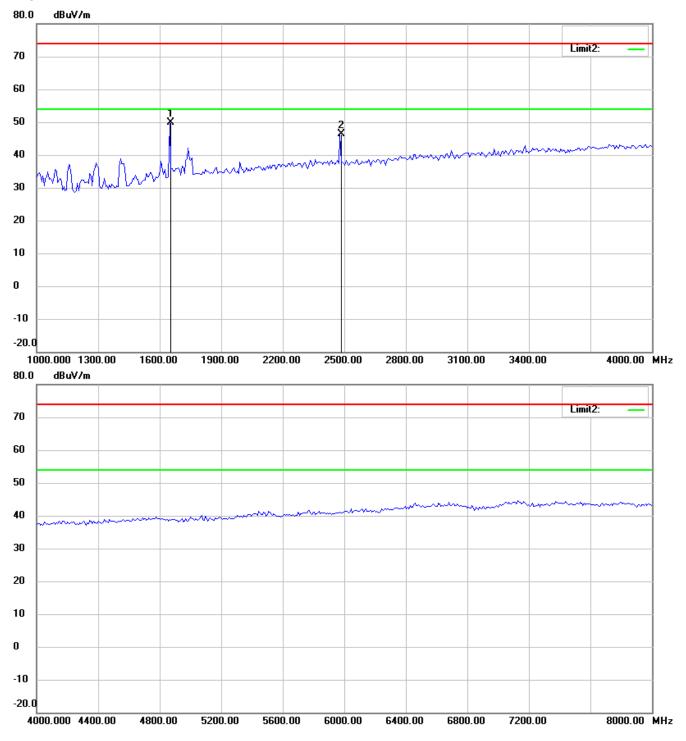


Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

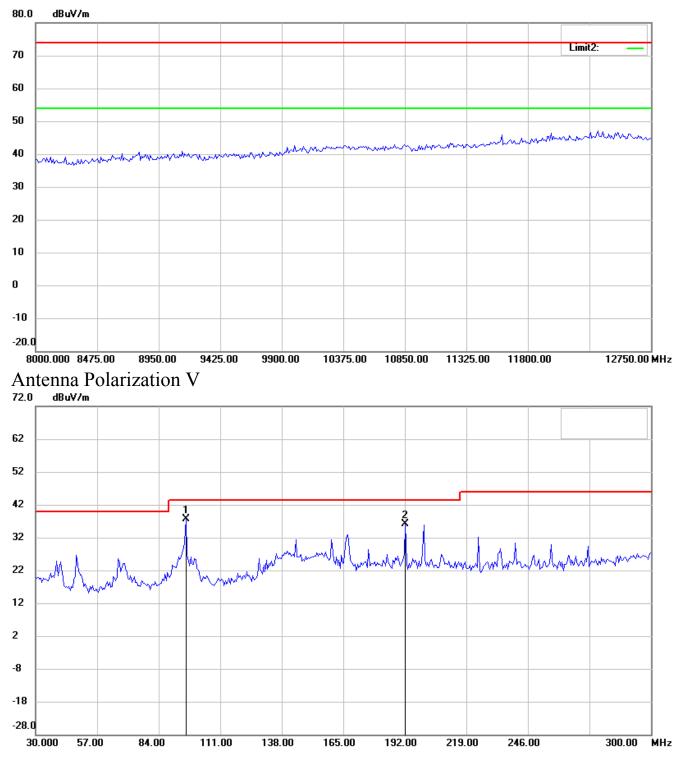
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





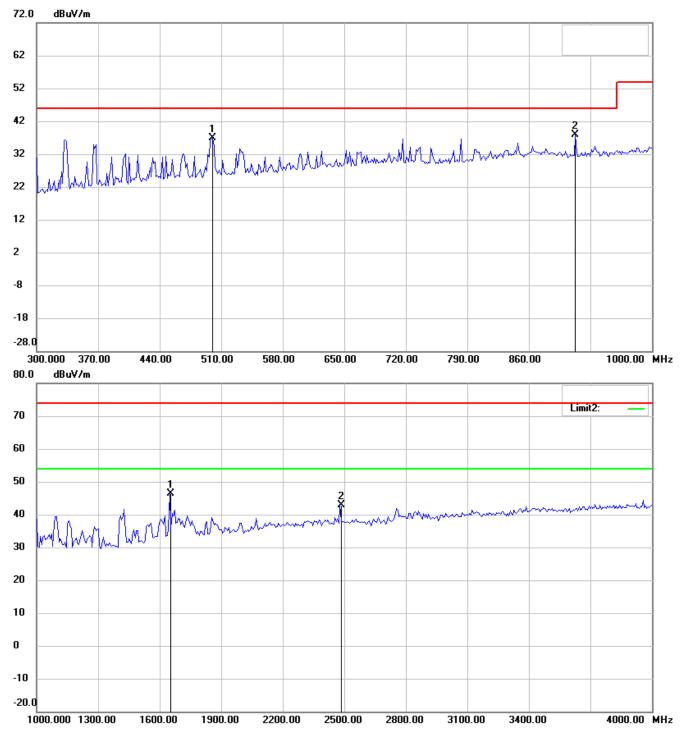
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





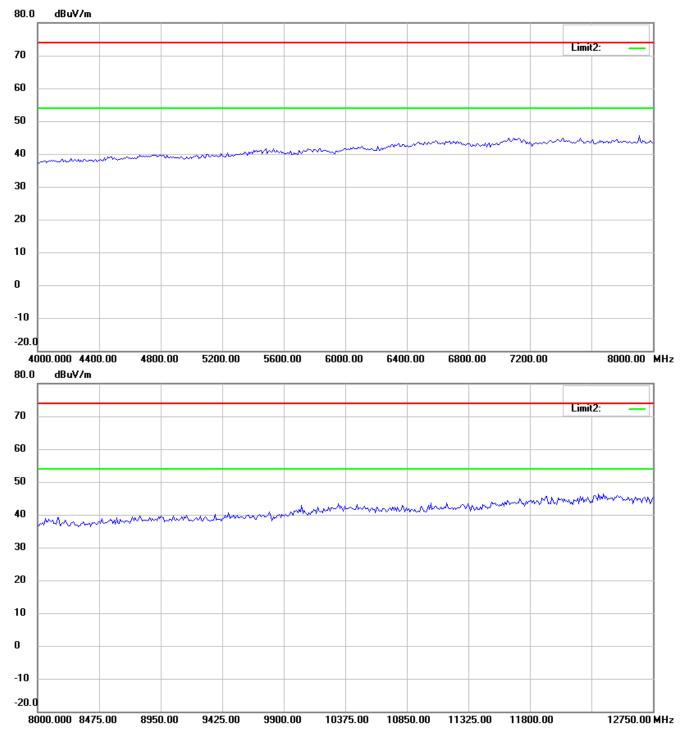
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





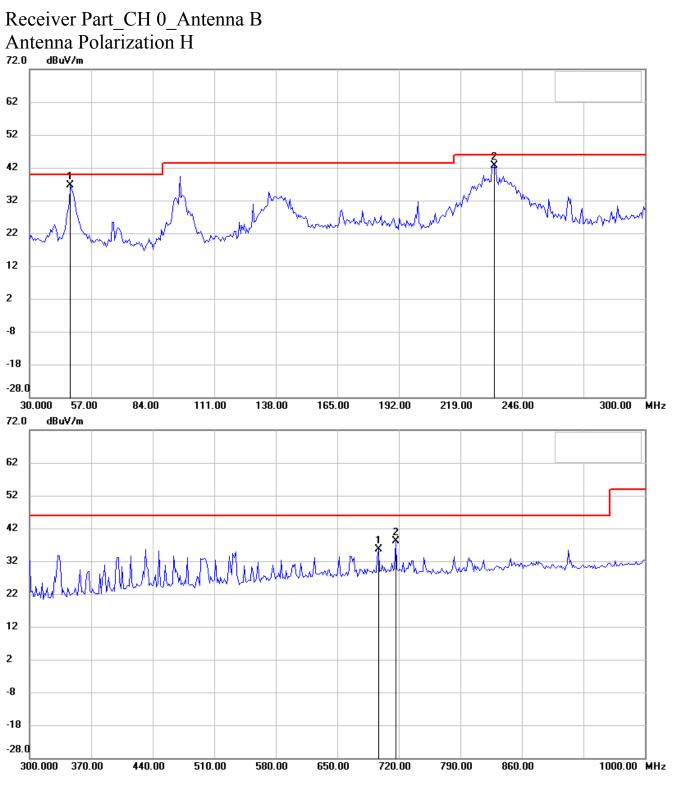
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





Up Line: Peak Limit Line Down Line: Ave Limit Line

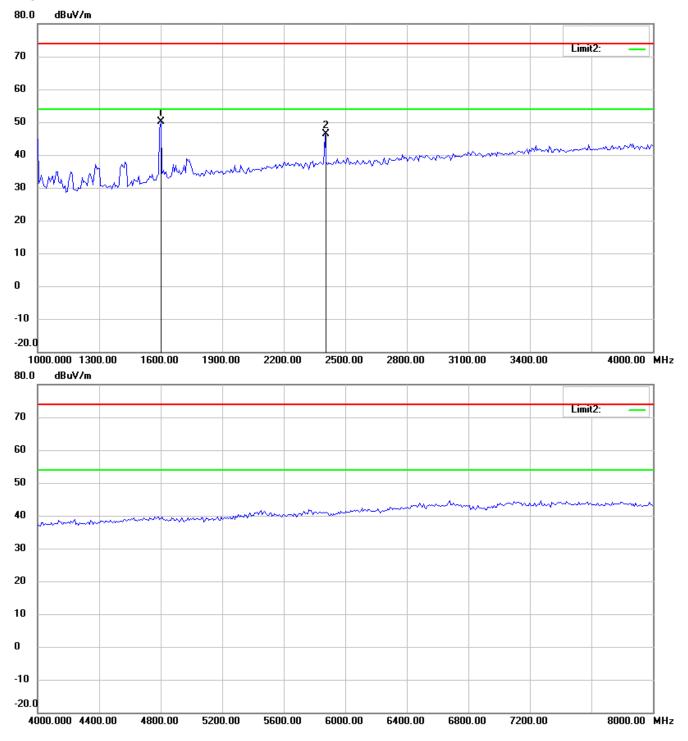
Note:

- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



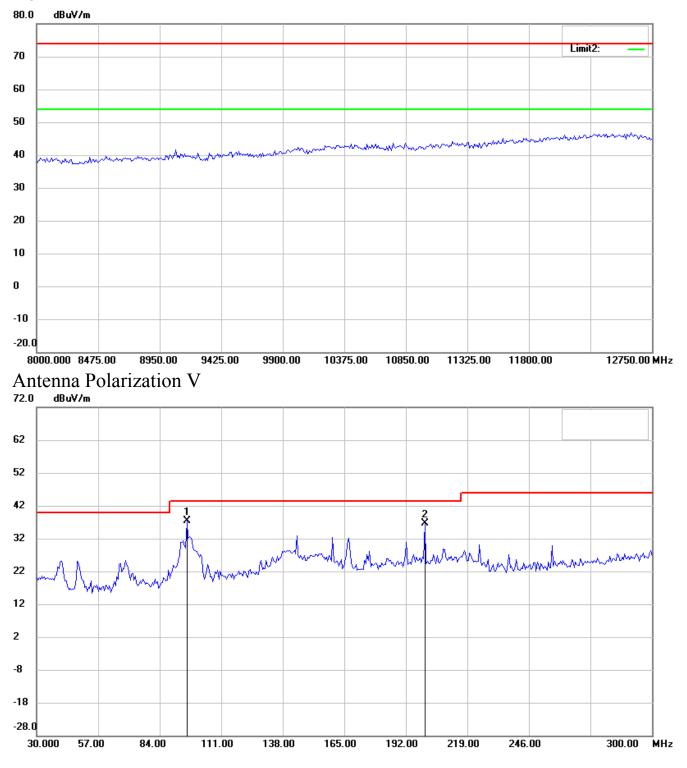
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20902-9574-P-15B



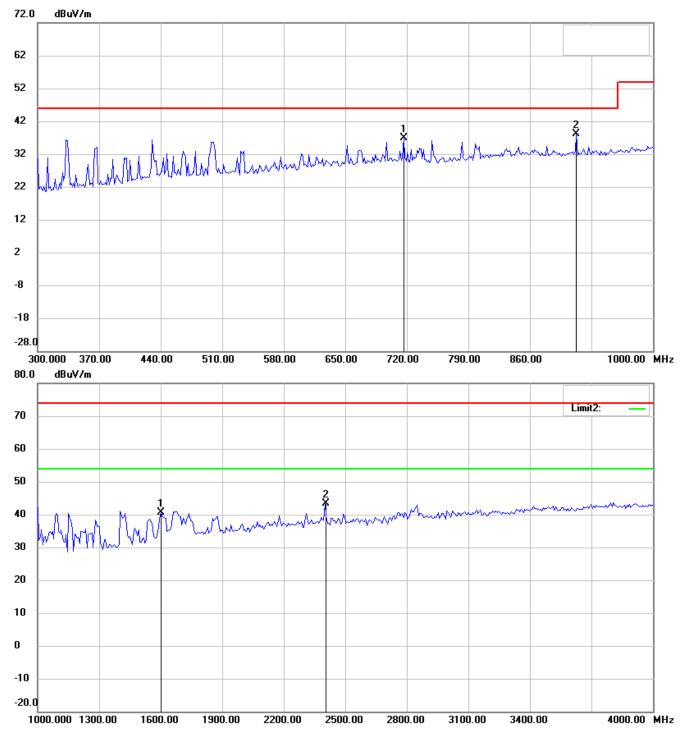
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





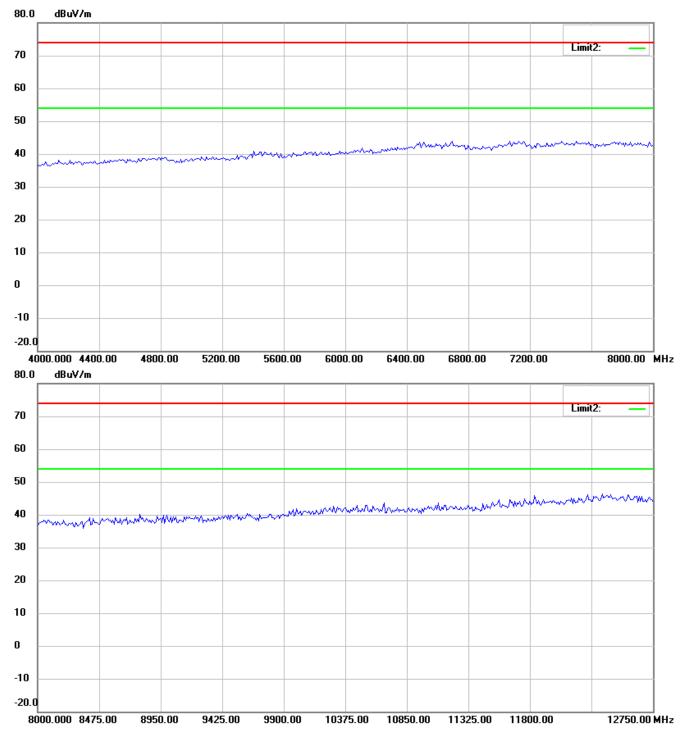
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





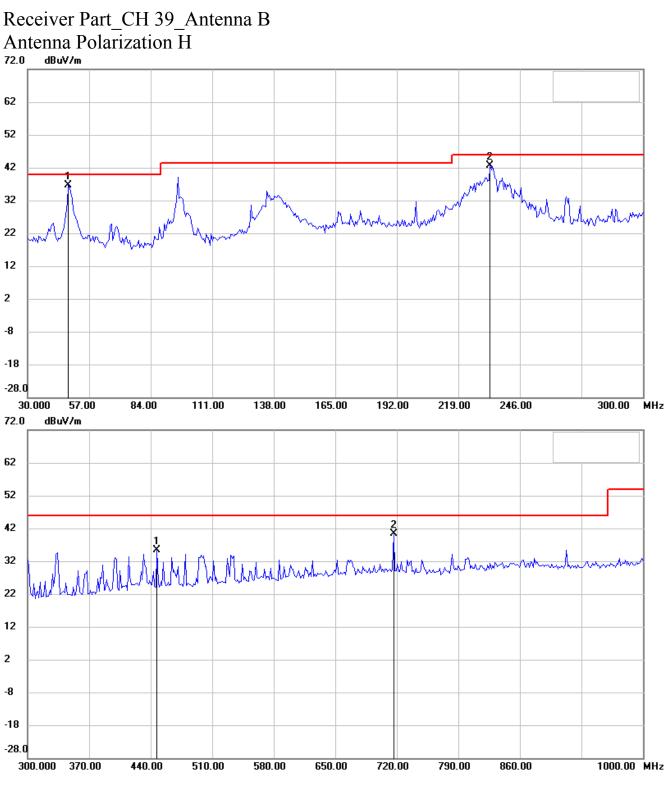
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





Up Line: Peak Limit Line Down Line: Ave Limit Line

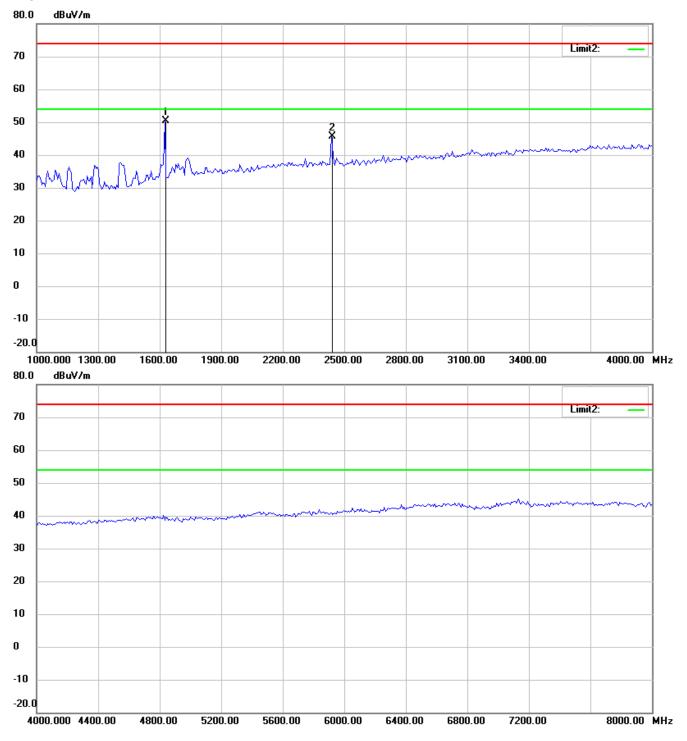
Note:

- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



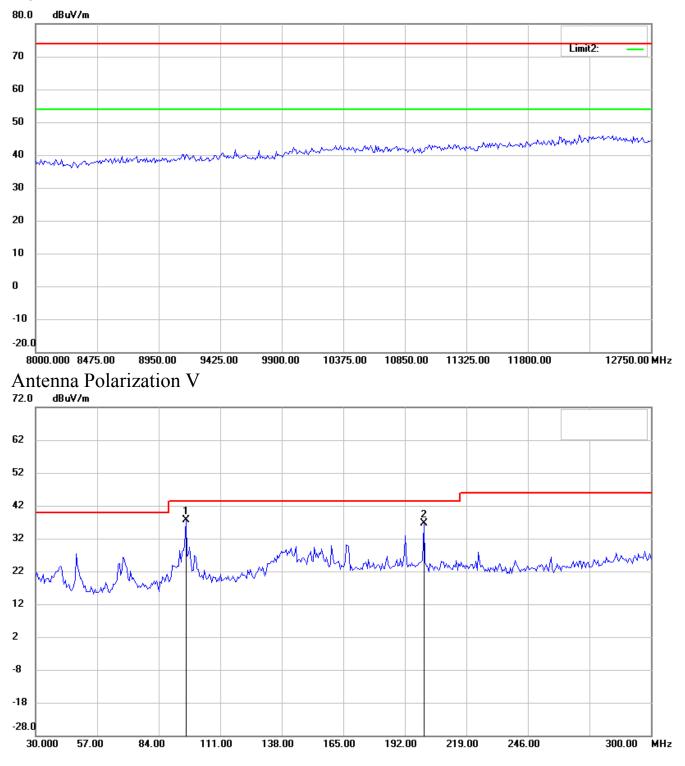
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20902-9574-P-15B



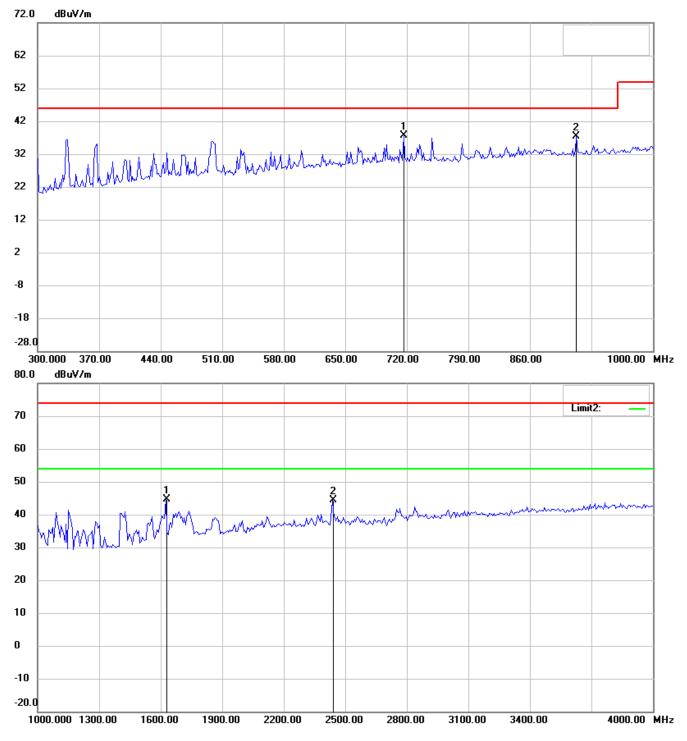
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





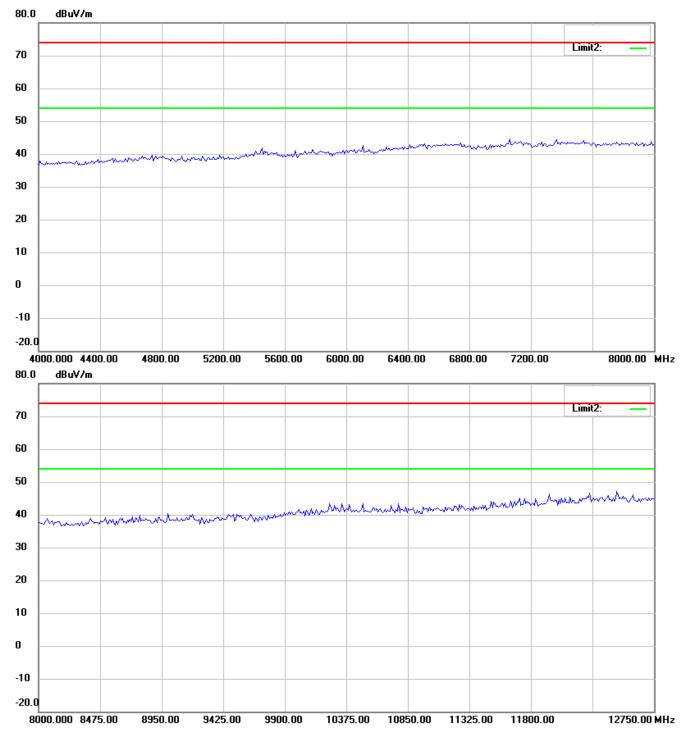
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

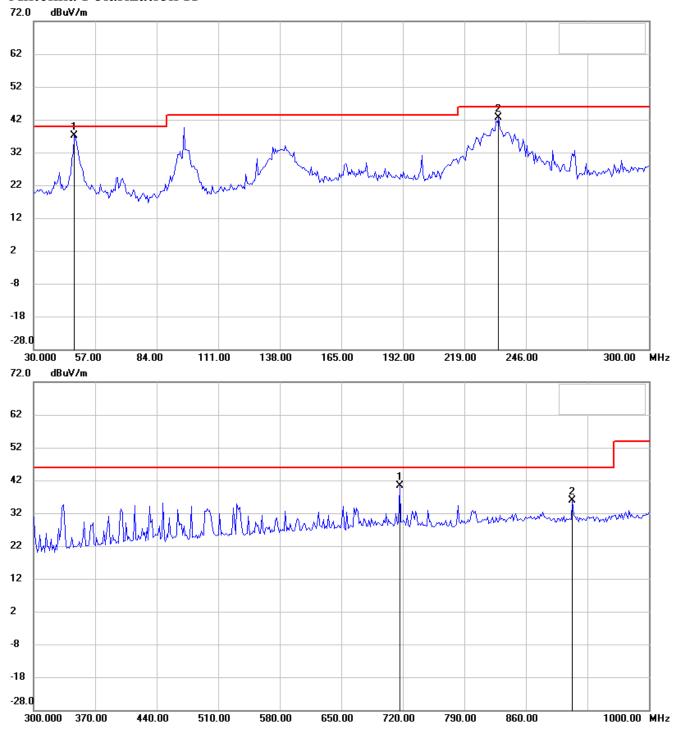




- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



Receiver Part_CH 78_Antenna B Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

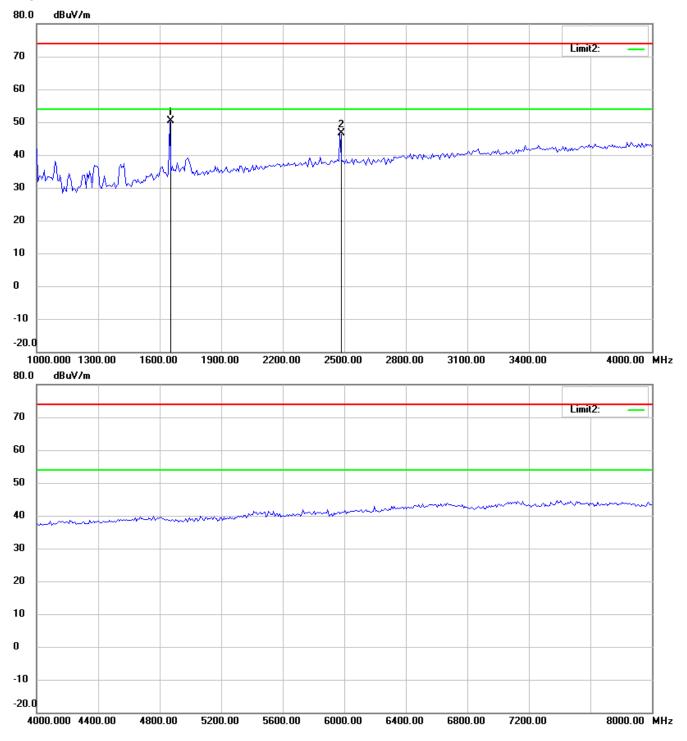
Note:

- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



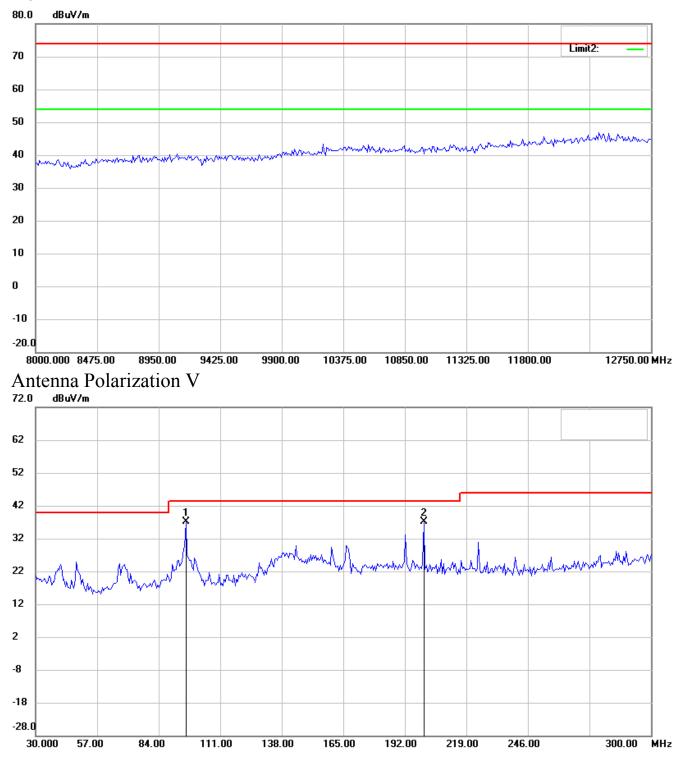
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20902-9574-P-15B



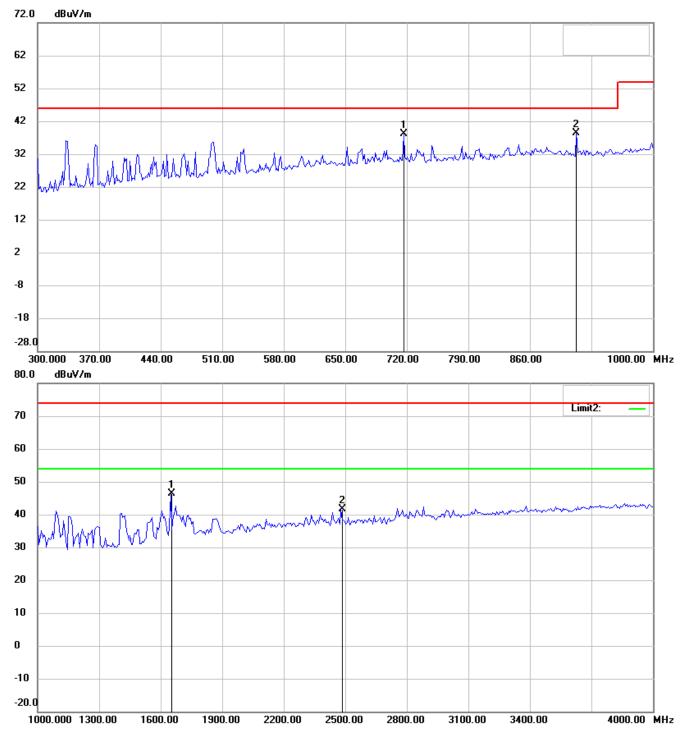
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





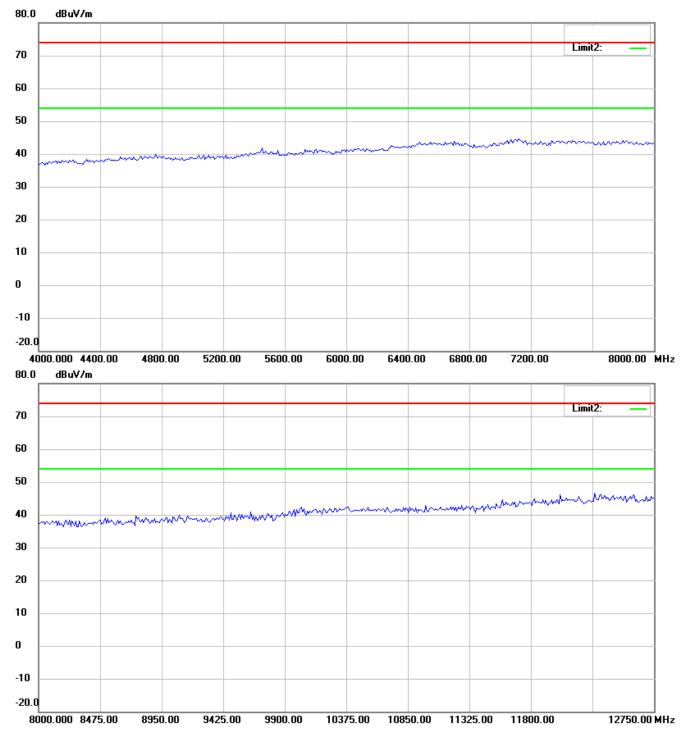
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





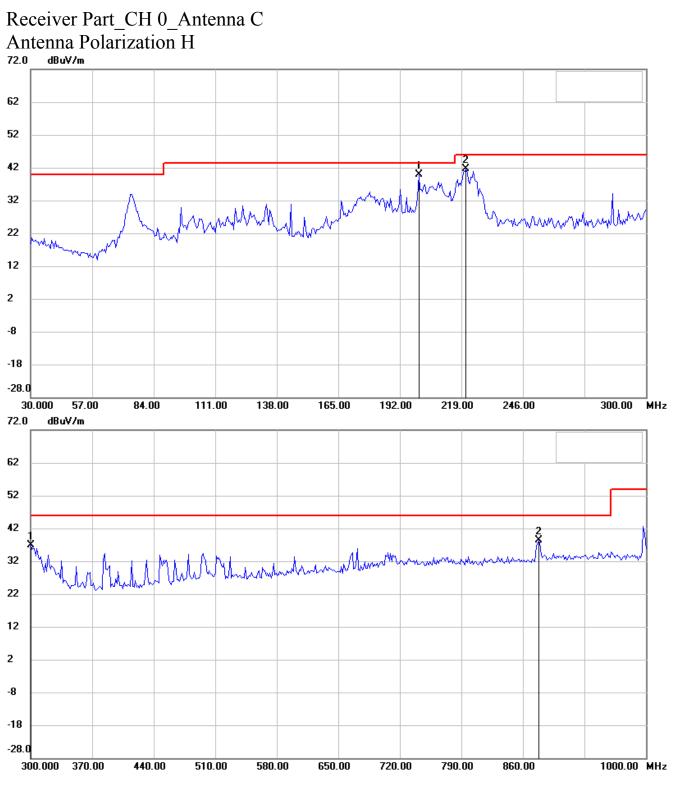
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





Up Line: Peak Limit Line Down Line: Ave Limit Line

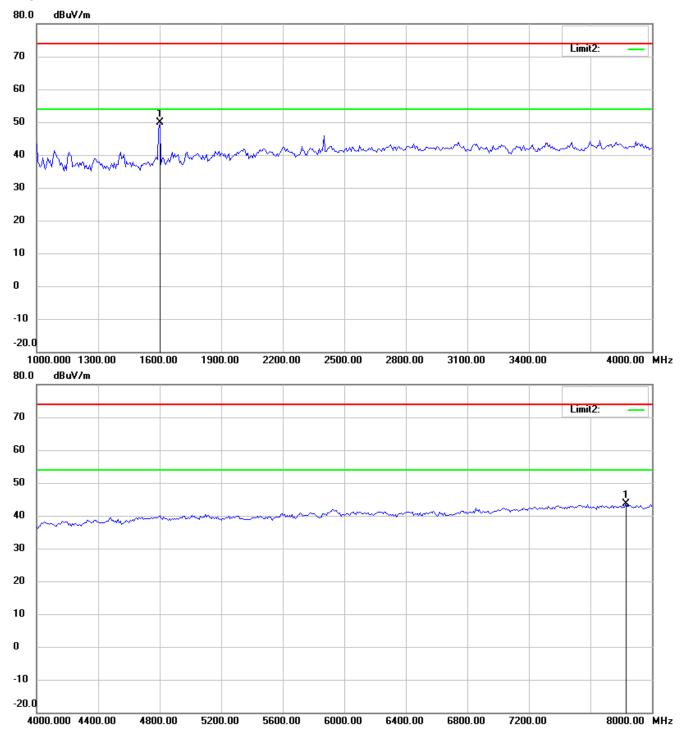
Note:

- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



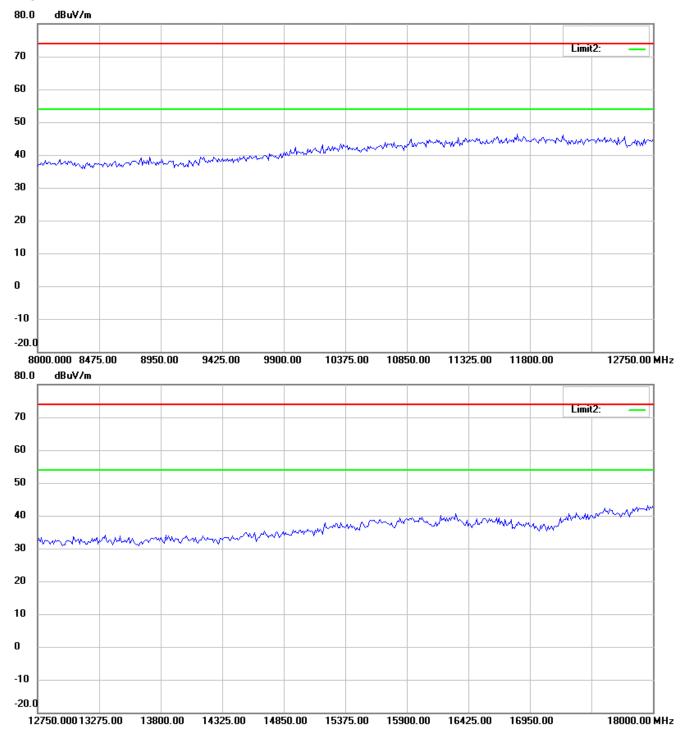
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20902-9574-P-15B



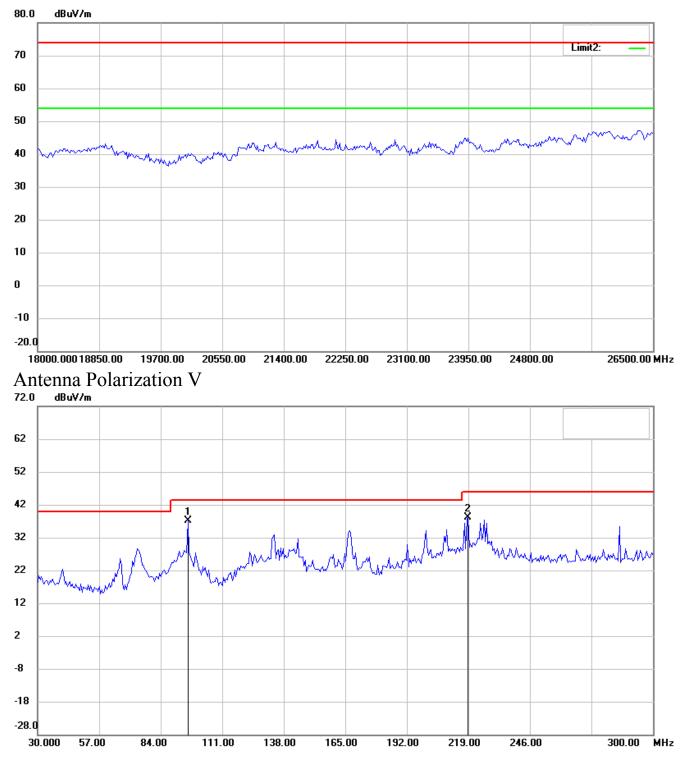
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





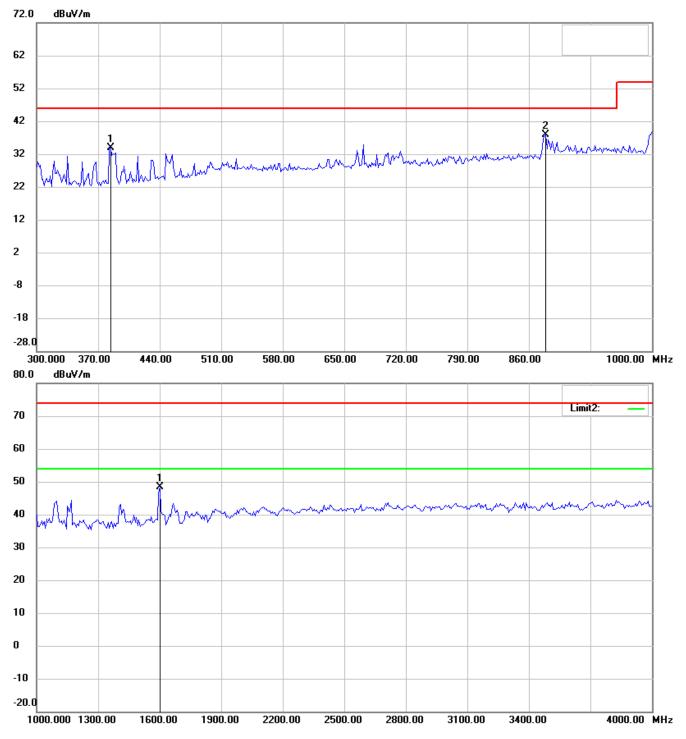
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





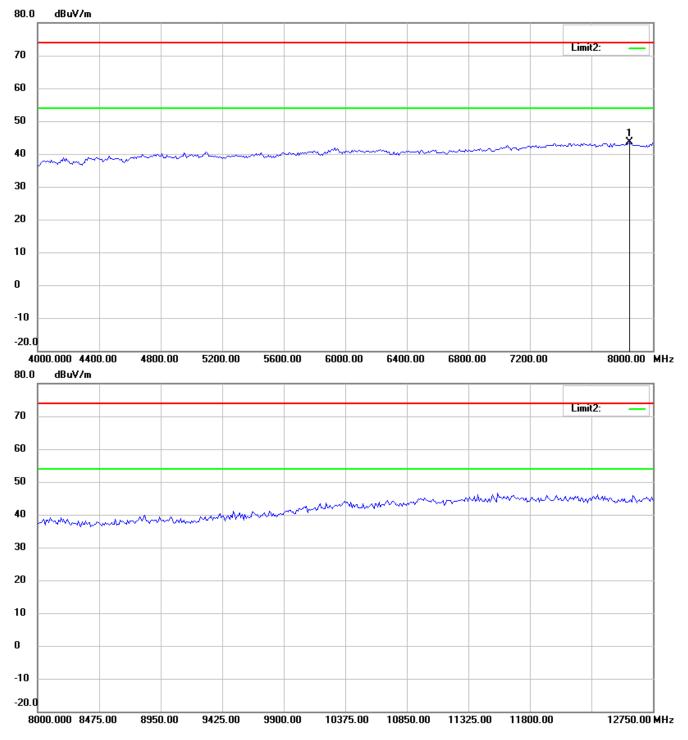
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





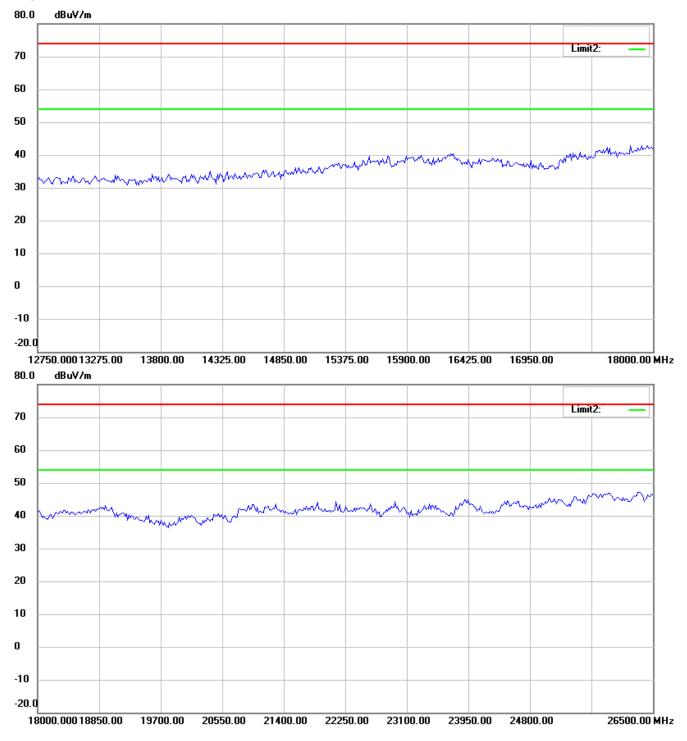
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





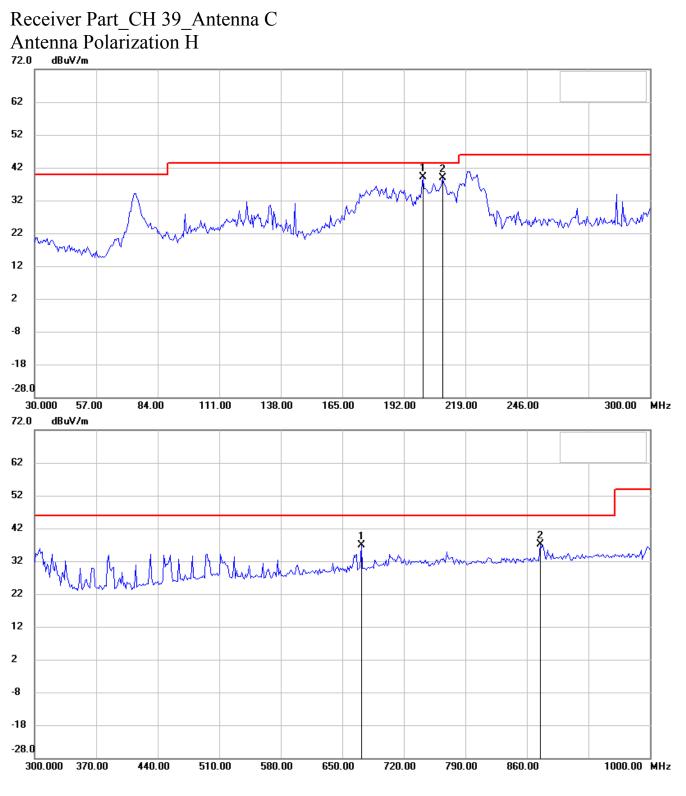
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





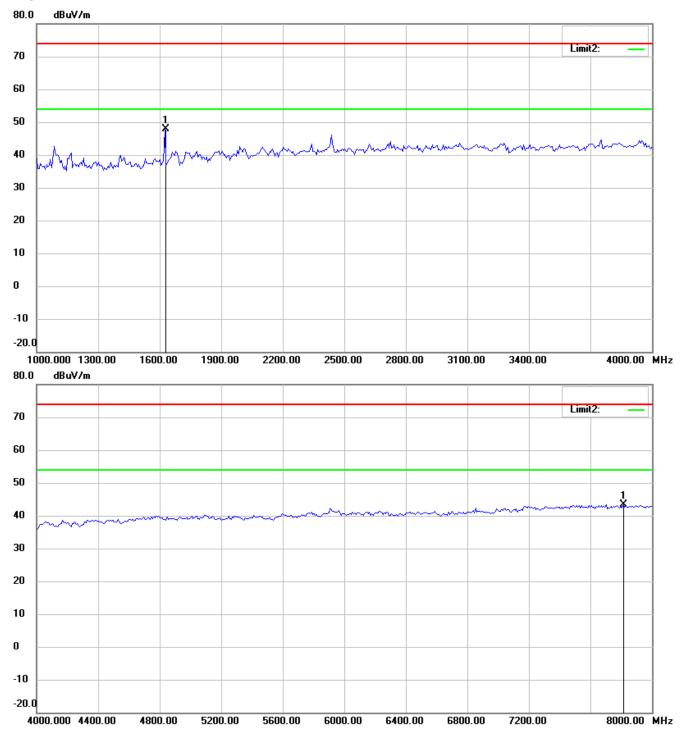
Up Line: Peak Limit Line Down Line: Ave Limit Line

- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



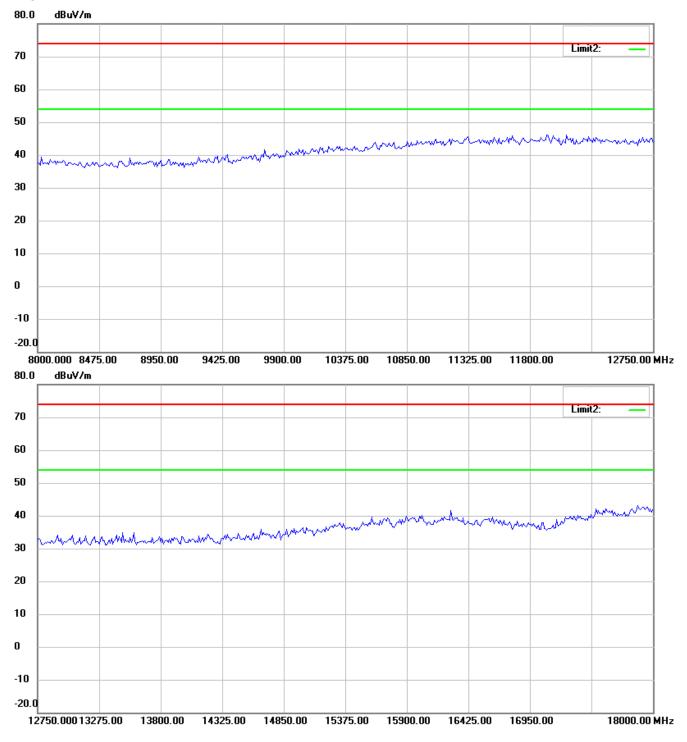
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M20902-9574-P-15B



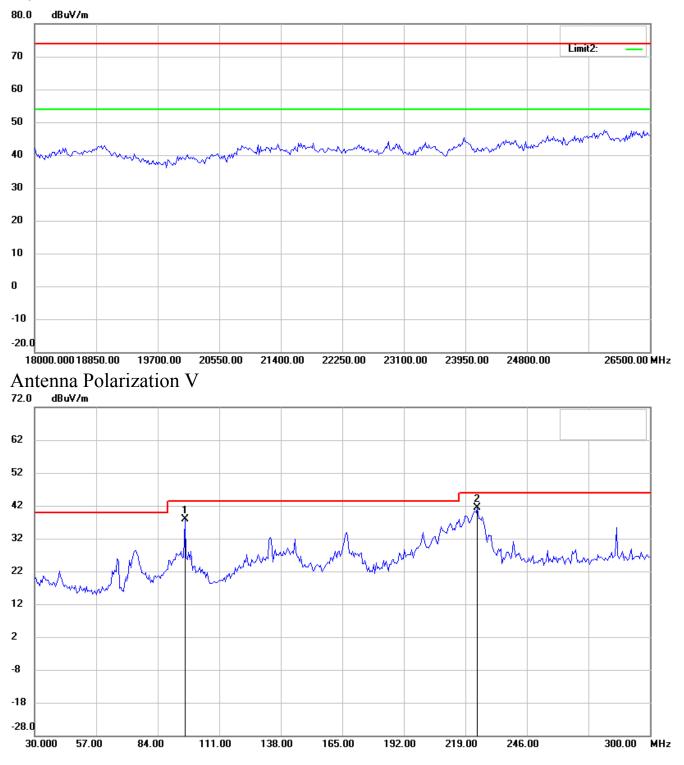
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





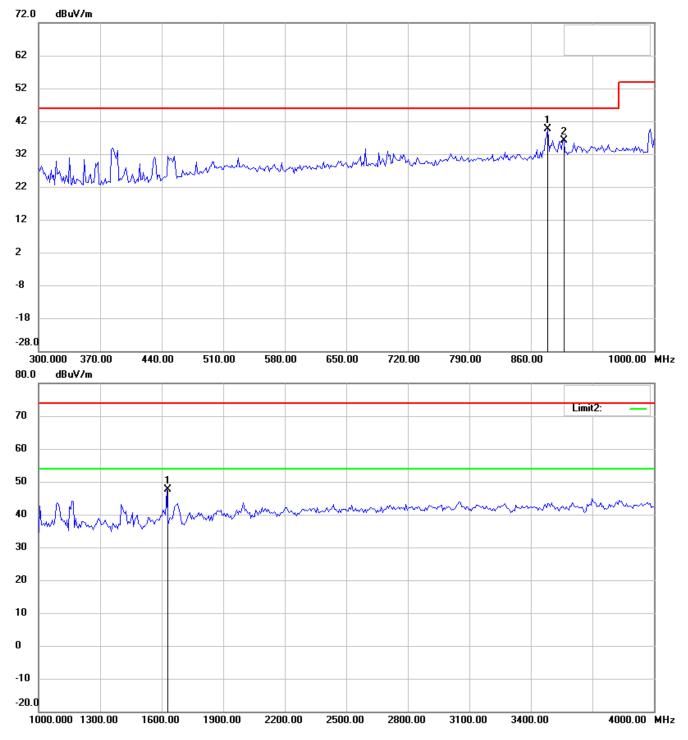
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





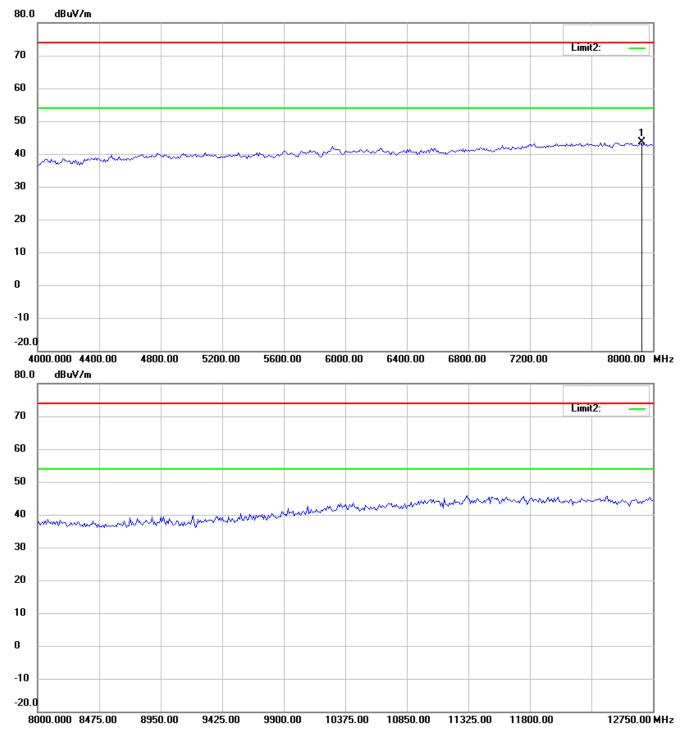
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





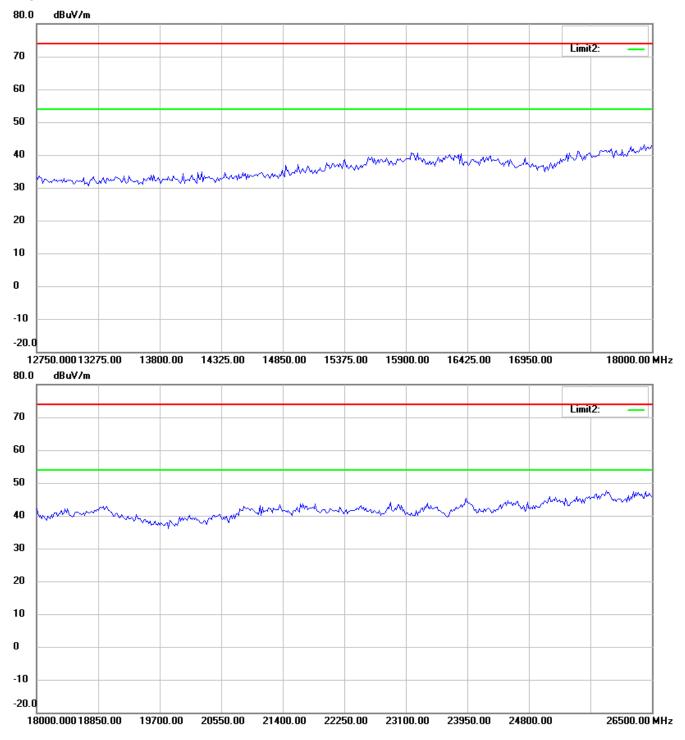
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





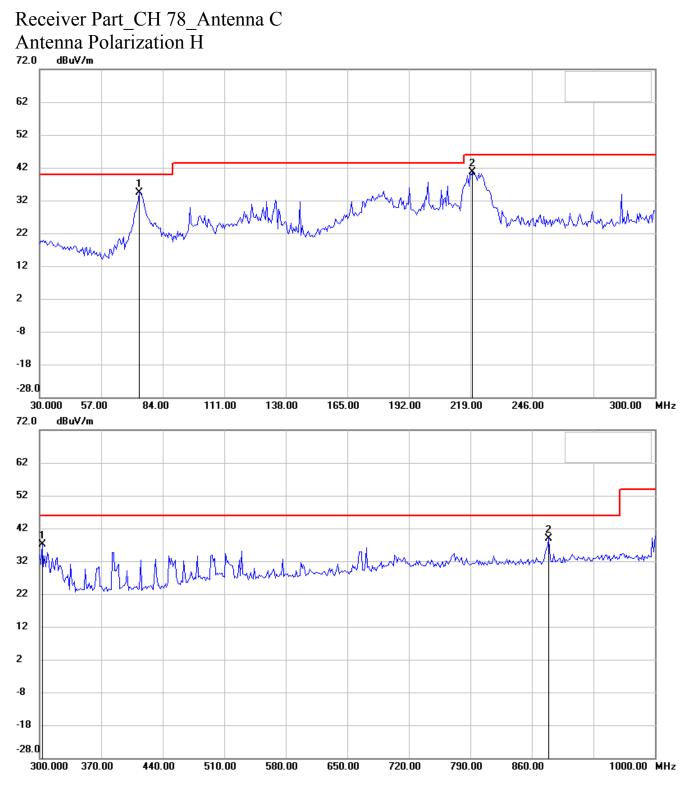
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

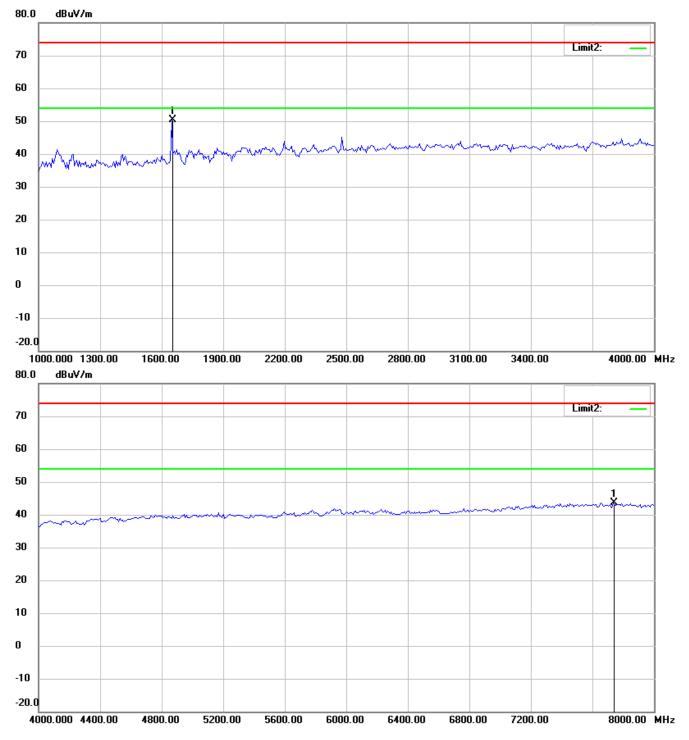




Up Line: Peak Limit Line Down Line: Ave Limit Line

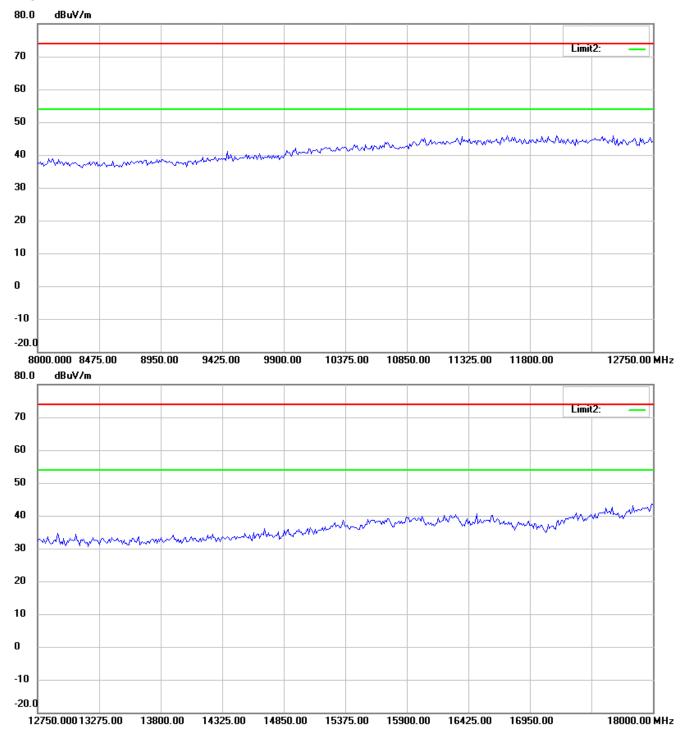
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





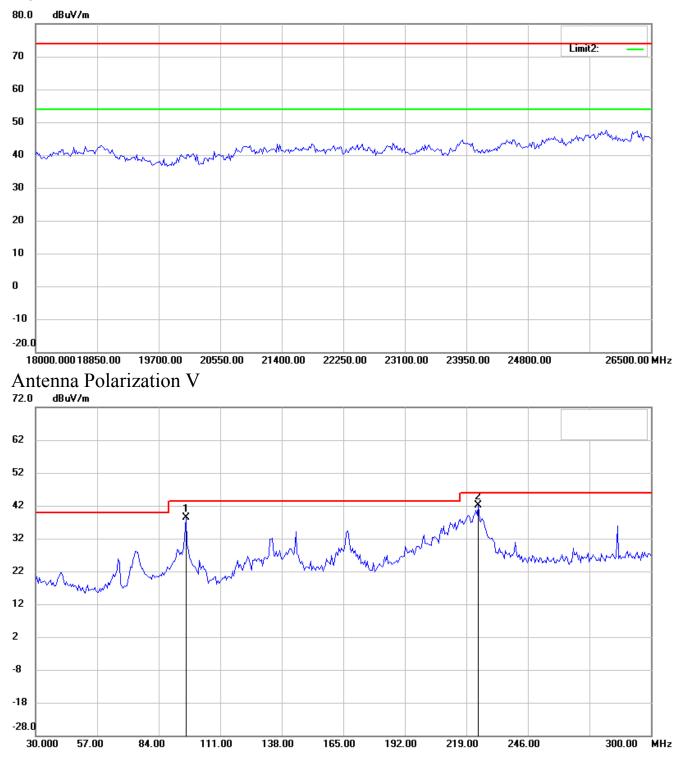
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





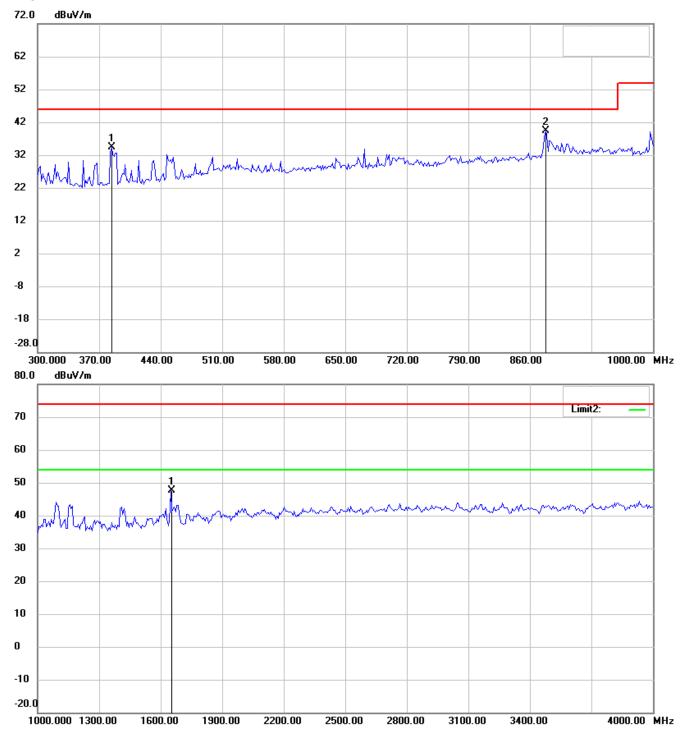
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





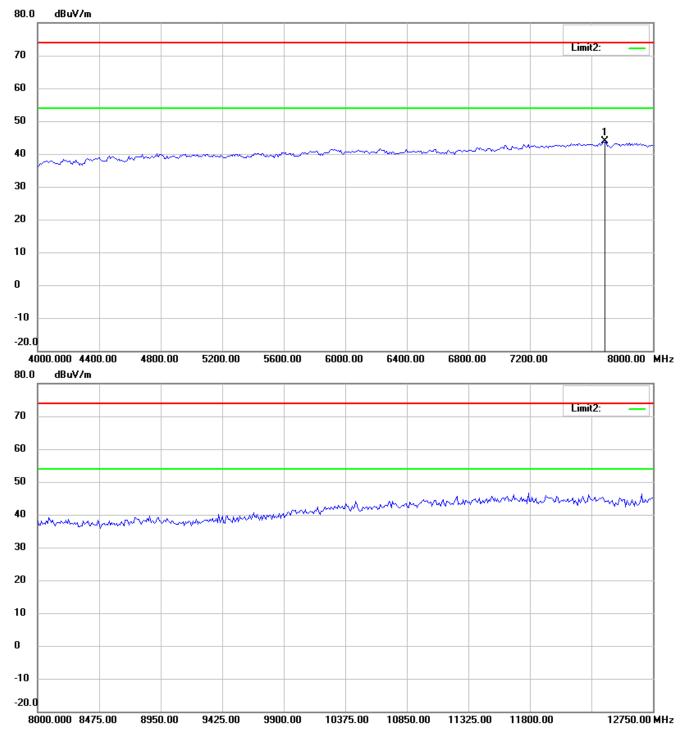
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





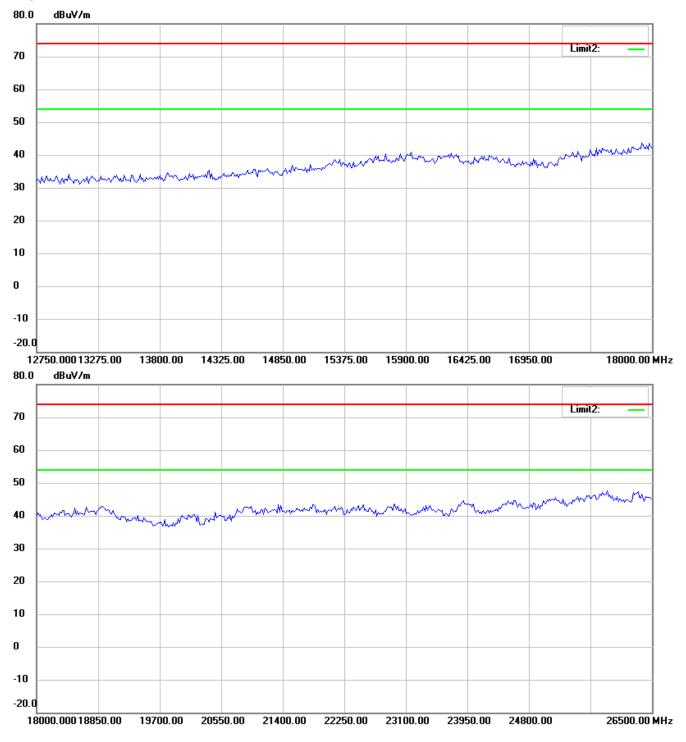
- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.





- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.

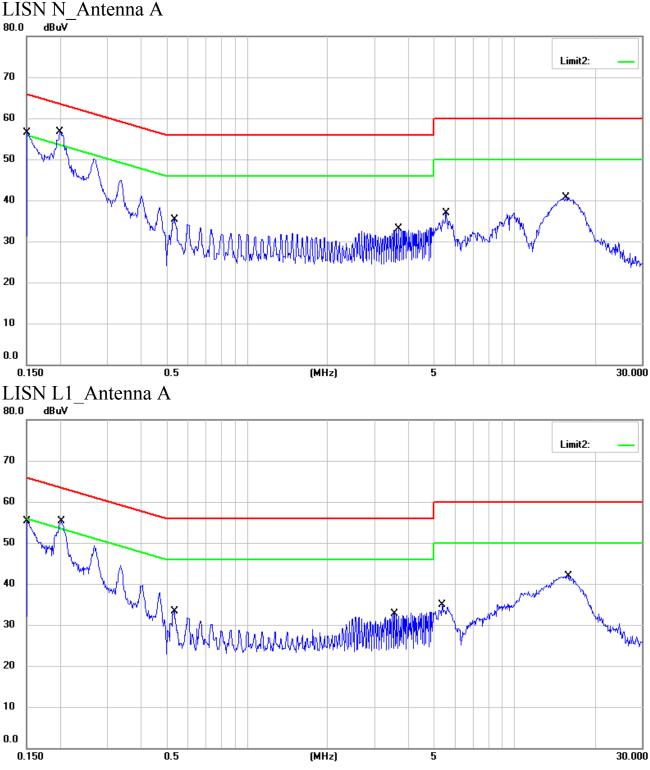




- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of radiated test data of this test report.



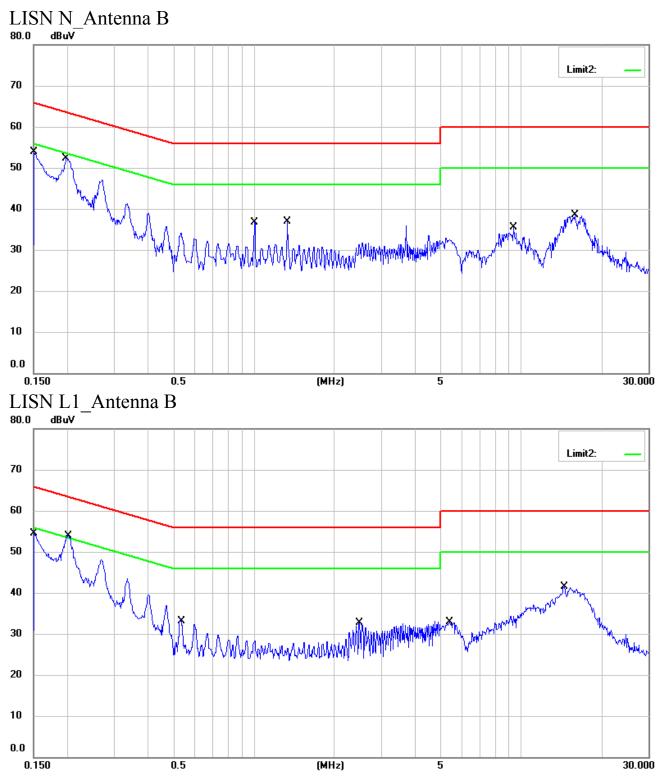
Conducted Emission



Up Line: QP Limit Line Down Line: Ave Limit Line

- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of AC Conducted test data of this test report.



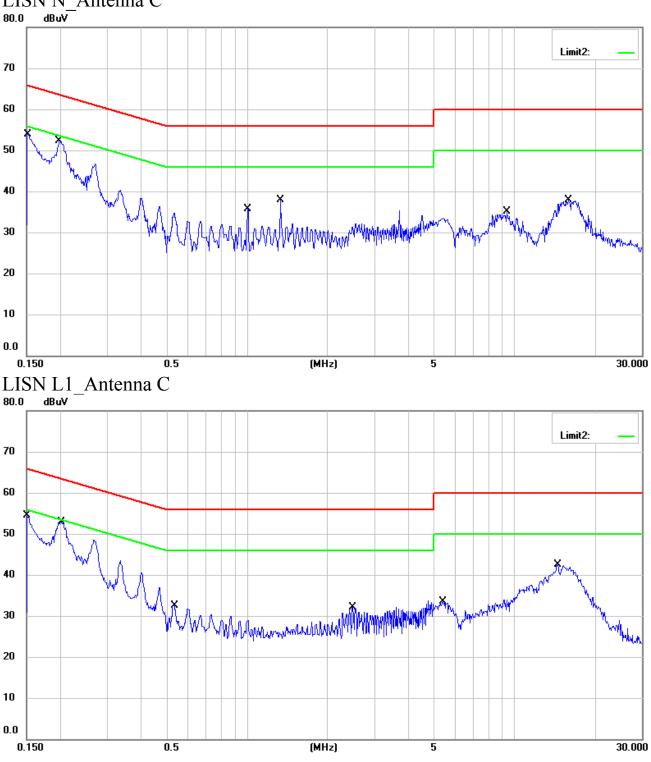


Up Line: QP Limit Line Down Line: Ave Limit Line

- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of AC Conducted test data of this test report.



Conducted Emission LISN N Antenna C



Up Line: QP Limit Line Down Line: Ave Limit Line

- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
- 3. For corrected test results are listed in the relevant table of AC Conducted test data of this test report.