



FCC DoC TEST REPORT

for

Floating 900MHz Wireless Speaker System

Brand: ARKON

Model: SP3990

Report Number: SZ091221B03-EF

Issued Date: January 07, 2010

Issued for

Uni-Art Precise Products Ltd

**11-12/F, Yue Xiu Industrial Building,
87 Hung To Road, Kowloon, Hong Kong**

Issued by:

Compliance Certification Services Inc.

No. 81-1, Lane 210, Bade 2nd Rd., Lujhu Township

Taoyuan County, Taiwan

TEL: +886-3-3240332

FAX: +886-3-3245235



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Revision History

Rev.	Issue No.	Revisions	Effect Page	Revised By
00	SZ091221B03-EF	Initial Issue	ALL	Clinton Kao

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TABLE OF CONTENTS

1	TEST RESULT CERTIFICATION	4
2	EUT DESCRIPTION	5
3	TEST METHODOLOGY	6
3.1.	DECISION OF FINAL TEST MODE	6
3.2.	EUT SYSTEM OPERATION	6
4	SETUP OF EQUIPMENT UNDER TEST	7
4.1.	DESCRIPTION OF SUPPORT UNITS	7
4.2.	CONFIGURATION OF SYSTEM UNDER TEST	8
5	FACILITIES AND ACCREDITATIONS	9
5.1.	FACILITIES	9
5.2.	ACCREDITATIONS	9
5.3.	MEASUREMENT UNCERTAINTY	9
6.	CONDUCTED EMISSION MEASUREMENT	10
6.1.	LIMITS OF CONDUCTED EMISSION MEASUREMENT	10
6.2.	TEST INSTRUMENTS	10
6.3.	TEST PROCEDURES	11
6.4.	TEST SETUP	12
6.5.	Data Sample:	13
6.6.	TEST RESULTS	14
7	RADIATED EMISSION MEASUREMENT	15
7.1.	LIMITS OF RADIATED EMISSION MEASUREMENT	15
7.2.	TEST INSTRUMENTS	15
7.3.	TEST PROCEDURES	16
7.4.	TEST SETUP	18
7.5.	Data Sample	18
7.6.	TEST RESULTS	19



1 TEST RESULT CERTIFICATION

Product: Floating 900MHz Wireless Speaker System**Model:** SP3990**Brand:** ARKON**Applicant:** Uni-Art Precise Products Ltd

11-12/F, Yue Xiu Industrial Building, 87 Hung To Road, Kowloon, Hong Kong

Manufacturer: Uni-Art Precise Products Ltd

11-12/F, Yue Xiu Industrial Building, 87 Hung To Road, Kowloon, Hong Kong

Tested Date: December 21,2009~ January 07,2010**Test Voltage:** AC120V/60Hz or DC9V powered by the by the battery

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B, ANSI C63.4-2003	Conducted (Main Port)	PASS	Meet Class B limit
	Radiated	PASS	Meet Class B limit

Note: 1. The test result judgment is decided by the limit of measurement standard
2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard
None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Clinton Kao/ Manager
COMPLIANCE CERTIFICATION
SERVICES INC.**Reviewed by:**

Vincent Yao/ Assistant manager
COMPLIANCE CERTIFICATION
SERVICES INC.



2 EUT DESCRIPTION

Product	Floating 900MHz Wireless Speaker System
Brand Name	ARKON
Model	SP3990
Test Item	Product Sample
Applicant	Uni-Art Precise Products Ltd
Housing material	Plastic+Metal
EUT Type	<input type="checkbox"/> Engineering Sample, <input checked="" type="checkbox"/> Product Sample, <input type="checkbox"/> Mass Product Sample.
Serial Number	SZ091221B03-EF
EUT Power Rating	DC9V powered by the by the battery or DC9V powered by the adapter
Adapter Manufacturer / Model No.	SIL/SSA-12W-09 US 090120F (Input: AC100~240V 50/60Hz 0.5A; Output:DC9V 1200mA;Unshielded1.70m)
Audio Cable	Unshielded 0.35m

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
DC Power Port	1	1
Audio Port	1	1



3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The following test mode(s) were scanned during the preliminary test:

Pre-Test Mode		
Emission	Conducted Emission	Mode 1: Normal with Adapter
	Radiated Emission	Mode 1: Normal with Adapter
	Radiated Emission	Mode 2: Normal with Battery

After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode		
Emission	Conducted Emission	Mode 1: Normal with Adapter
	Radiated Emission	Mode 1: Normal with Adapter

Then, the EUT configuration and cable configuration of the above highest emission mode was chosen for all final test items.

3.2. EUT SYSTEM OPERATION

1. Set up EUT with the auxiliary equipment.
2. Power on the EUT and Play the music with IPOD.
3. Keep the program running throughout the test and make sure the EUT work normally during the test.



4 SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

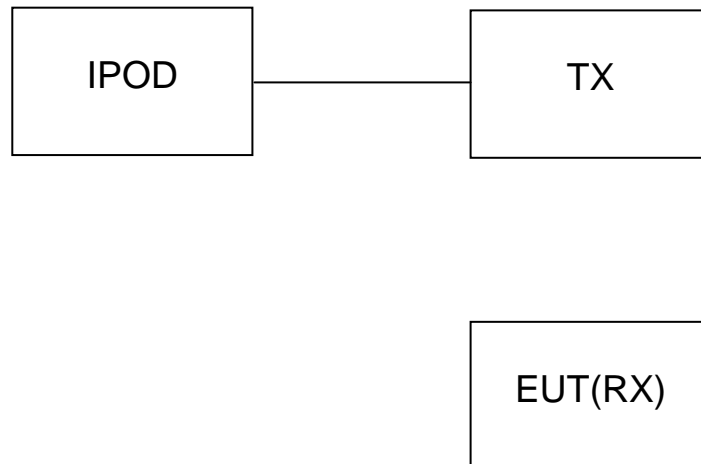
No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1	IPOD	D0022012POD	JQ8070LBVMV	N/A	APPLE	Unshielded 0.35m	N/A
2	Floating 900MHz Wireless Speaker System (Transmitter)	SP3990	N/A	MVASP3 991-001T	ARKON	Unshielded 0.35m	Unshielded1. 70m

Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



4.2. CONFIGURATION OF SYSTEM UNDER TEST





5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at

No.81-1, Lane 210, Bade 2nd Rd., Lujhu Township Taoyuan County, Taiwan

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA	A2LA
Taiwan	TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA	FCC
Japan	VCCI
Canada	INDUSTRY CANADA
Taiwan	BSMI

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	+/- 3.18dB
Radiated emissions	30MHz ~ 200MHz	+/- 3.79dB
	200MHz ~1000MHz	+/- 3.62dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.



6. CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

6.2. TEST INSTRUMENTS

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL. DUE
ESCI EMI TEST RECEIVE.ESCI	ROHDE&SCHWARZ	1166.5950 03	100145	03/20/2009	03/20/2010
LISN	FCC	FCC-LISN-50-50-2-M	01068	03/01/2009	03/01/2010
LISN	EMCO	3825/2	8901-1459	03/01/2009	03/01/2010
CDN	FCC	FCC-TILISN-T4	20182	03/01/2009	03/01/2010
CDN	FCC	FCC-TLISN-T8-02	20183	03/01/2009	03/01/2010
CDN	FCC	FCC-TLISN-T4-02	20382	03/01/2009	03/01/2010
CDN	FCC	FCC-TLISN-T4-02	20383	03/01/2009	03/01/2010
CDN	FCC	FCC-801-T8-RJ45	04030	03/01/2009	03/01/2010
Current Probe	STODDART AIRCRAFT	91550-1	345-73	03/01/2009	03/01/2010

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R = No Calibration Request.



6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

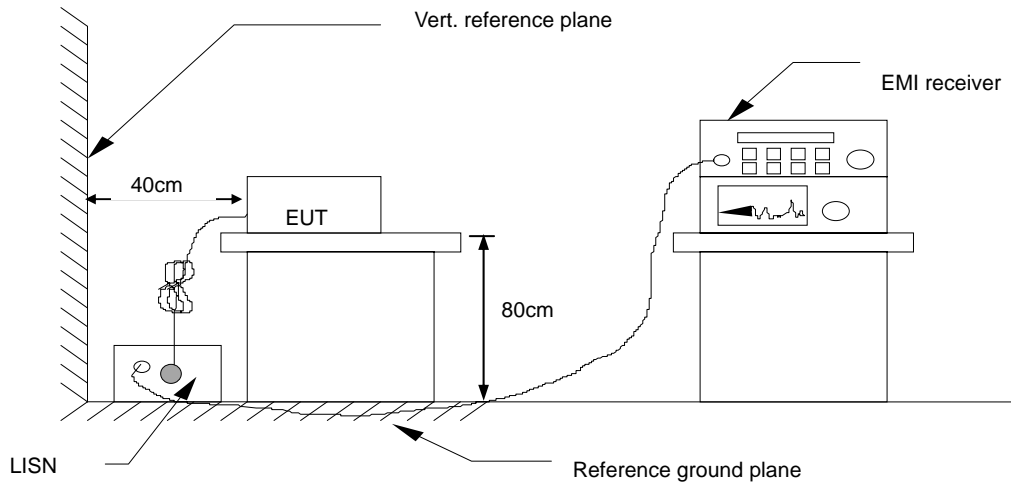
Procedure of Preliminary Test

- The EUT and Support equipment, if needed, was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The EUT received DC9V power from the adapter and the adapter received AC120V/60Hz through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment power received from a second LISN.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.
- For details, please refer to measurement standard or CCS SOP PA-031

6.4. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

**6.5. Data Sample:**

FREQ MHz	PEAK RAW dBuV	Q.P. RAW dBuV	AVG RAW dBuV	Q.P. Limit dBuV	AVG Limit dBuV	Q.P. Margin dB	AVG Margin dB	Note
x.xx	50.27	49.16	48.17	65.47	55.47	-16.31	-7.30	L

Freq. = Emission frequency in MHz

RAW dBuV = Uncorrected Analyzer/Received Reading +INSERTION LOSS of
LISN+CABLE LOSS+pulse limiter loss

Q.P. Limit dBuV = Limit stated in standard

AVG Limit dBuV = Limit stated in standard

Q.P. Margin dB = Q.P. RAW (dBuV) –Q.P. Limit (dBuV)

AVG Margin dB = AVG RAW (dBuV) –AVG Limit (dBuV)

Note = Current carrying line of reading

Q.P.: =Quasi-Peak



6.6. TEST RESULTS

Model No.	SP3990	Test Mode	Mode 1
Environmental Conditions	19°C,44% RH	RBW,VBW	10 KHz
Tested by	Tom Gan		

(The chart below shows the highest readings taken from the final data.)

FREQ MHz	PEAK RAW dBuV	Q.P. RAW dBuV	AVG RAW dBuV	Q.P. Limit dBuV	AVG Limit dBuV	Q.P. Margin dB	AVG Margin dB	NOTE
0.213	44.99	43.72	29.16	64.20	54.20	-20.48	-25.04	L1
0.253	43.85	42.42	29.3	63.03	53.03	-20.61	-23.73	L1
0.557	38.52	---	---	56.00	46.00	---	-7.48	L1
1.099	35.01	---	---	56.00	46.00	---	-10.99	L1
1.406	35.43	---	---	56.00	46.00	---	-10.57	L1
3.915	34.96	---	---	56.00	46.00	---	-11.04	L1
0.168	58.63	55.04	34.33	65.47	55.47	-10.43	-21.14	L2
0.339	45.64	---	---	60.60	50.60	---	-4.96	L2
0.542	39.47	---	---	56.00	46.00	---	-6.53	L2
1.099	38.35	---	---	56.00	46.00	---	-7.65	L2
2.192	39.98	---	---	56.00	46.000	---	-6.02	L2
3.290	41.19	---	---	56.00	46.000	---	-4.81	L2

NOTE: 1. The measuring frequencies range between 0.15 MHz and 30 MHz.

2. The emissions measured in the frequency range between 0.15 MHz and 30MHz were made with an instrument using Quasi-peak detector and Average detector.

3. “---” denotes the emission level was or more than 2dB below the Average limit, and no re-check was made.

4. The IF bandwidth of SPA between 0.15MHz and 30MHz was 10KHz. The IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz.

5. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).



7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

Maximum permissible level of Radiated Emission measured at 3 meter

FREQUENCY (MHz)	dBuV/m (At 10m)	dBuV/m (At 3m)
	Class A	Class B
30~88	39.00	40.00
88~216	43.50	43.50
216~960	46.00	46.00
960~1000	49.50	54.00

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

Ranges of frequency are above 1000MHz

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBu V/m/ Peak)	Maximum Field Strength Limit(dBu V/m/Avg)
Above 1000	3	74	54

7.2. TEST INSTRUMENTS

966 RF CHAMBER (2)					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL. DUE
ESCI EMI TEST RECEIVE.ESCI	ROHDE&SCHWARZ	1166.5950 03	100783	03/20/2009	03/20/2010
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2009	03/01/2010
Low Noise Amplifier	MITEQ	AM-1604-3000	1123808	02/06/2009	02/06/2010
Turn Table	EMCO	2081-1.21	N/A	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
High Noise Amplifier	Agilent	8449B	3008A01838	05/29/2009	05/29/2010
Site NSA	C&C	N/A	N/A	N.C.R	N.C.R
BILOG ANTENNA	SCHAFFNER	CBL6143	5082	06/08/2009	06/09/2010
Horn Antenna	SCHAFFNER	BBHA9120D	1201	03/19/2009	03/19/2010
Signal Generator	Anritsu	MG3694A	#050125	03/01/2009	03/01/2010

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R = No Calibration Request.



7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received DC9V power from the adapter or by the battery and the adapter received AC120V/60Hz through the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- Mains cables, telephone lines or other connections to auxiliary equipment located outside the test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.
- The antenna was placed at 3/10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The EUT and worse cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.
- When measuring emissions above 1GHz, the frequencies of maximum emission shall be determined by manually positioning the antenna close to the EUT and by moving the antenna over all sides of the EUT while observing a spectral display. It will be advantageous to have prior knowledge of the frequencies of emissions above 1GHz. If the EUT is a device with dimensions approximately equal to that of the measurement antenna beam width, the measurement antenna shall be aligned with the EUT.

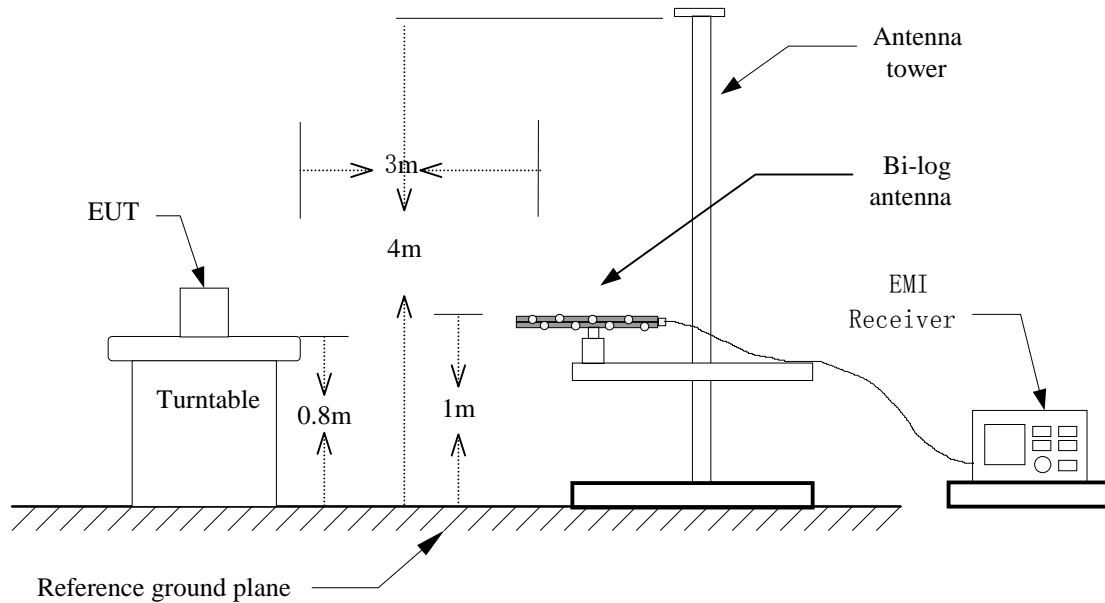


Procedure of Final Test

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- For the measurement above 1GHz, use the cable, EUT arrangement, and mode of operation determined in the exploratory testing to produce the emission that has the highest amplitude relative to the limit.
- Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the antenna in the "cone of radiation" from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.
- The antenna may have to be higher or lower than the EUT, depending on the EUT's size and mounting height, but the antenna should be restricted to a range of height of from 1m to 4m above the ground or reference ground plane.
- If the transmission line for the measurement antenna restricts its range of height and polarization, the steps needed to ensure the correct measurement of the maximum emissions, shall be described in detail in the report of the measurements.
- using the procedures above to measure with peak detector function, if the result comply with the average limit specified by the appropriate regulation, record the EUT arrangement, mode of operation, and cable positions used for final radiated emission measurement , this can be done with either diagrams or photographs.
- Set the detector function of the measuring instrument to average mode, using the procedures above and remeasure only those emissions that complied with the peak limits but exceeded the average limits.

Recorded at least the six highest emissions.

7.4. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.5. Data Sample

Freq. (MHz)	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margins (dBuV/m)	Ant. H/V	Mark
xx.xx	37.47	-16.41	21.06	40.00	-18.94	V	Q

Freq.	= Emission frequency in MHz
Reading (dBuV)	= Receiver reading
Corr. Factor (dB/m)	= Antenna factor + Cable loss – Amplifier gain
Measured (dBuV/m)	= Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m)	= Limit stated in standard
Margin (dB)	= Measured (dBuV/m) – Limits (dBuV/m)
Ant. H/V	= Current carrying line of reading
Mark	= Mark Peak Reading or Quasi-peak Reading

**7.6. TEST RESULTS**

Model No.	SP3990	Test Mode	Mode 1
Environmental Conditions	19°C, 44% RH	RBW,VBW	120 KHz
Antenna Pole	Vertical / Horizontal	Antenna Distance	3m
Detector Function	Peak / Quasi-peak	Tested by	Tom Gan

(The chart below shows the highest readings taken from the final data)

Frequency Range Investigated (30 MHz TO 1000 MHz)							
Freq. (MHz)	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Safe Margins (dBuV/m)	Ant. H/V	Mark
34.500	44.82	-15.22	29.60	40.00	-10.40	V	P
81.300	42.12	-19.93	22.19	40.00	-17.81	V	P
111.900	45.46	-19.89	25.57	43.50	-17.93	V	P
153.300	47.75	-19.08	28.67	43.50	-14.83	V	P
192.000	41.01	-17.80	23.21	43.50	-20.29	V	P
331.500	40.77	-13.69	27.08	46.00	-18.92	V	P
33.600	38.21	-14.64	23.57	40.00	-16.43	H	P
70.500	43.57	-20.02	23.55	40.00	-16.45	H	P
127.200	43.16	-19.47	23.69	43.50	-19.81	H	P
173.550	45.64	-18.65	26.99	43.50	-16.51	H	P
260.850	44.50	-16.19	28.31	46.00	-17.69	H	P
333.833	40.36	-13.64	26.72	46.00	-19.28	H	P

REMARKS: 1. P= Peak Reading; Q= Quasi-peak Reading A= Average Reading.
2. The other emission levels were very low against the limit.



Model No.	SP3990	Test Mode	Mode 1
Environmental Conditions	27°C, 56% RH	RBW,VBW	1MHz
Antenna Pole	Vertical / Horizontal	Antenna Distance	3m
Detector Function	Peak / Quasi-peak	Tested by	Tom Gan

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1206.67	V	48.47	---	-11.03	37.44	---	74.00	54.00	-16.56	Peak
1340.00	V	48.28	---	-10.30	37.98	---	74.00	54.00	-16.02	Peak
1726.67	V	49.85	---	-7.62	42.23	---	74.00	54.00	-11.77	Peak
1803.33	V	50.41	---	-7.02	43.39	---	74.00	54.00	-10.61	Peak
1993.33	V	48.47	---	-5.51	42.96	---	74.00	54.00	-11.04	Peak
2403.33	V	47.07	---	-3.86	43.21	---	74.00	54.00	-10.79	Peak
1206.67	H	48.65	---	-11.03	37.62	---	74.00	54.00	-16.38	Peak
1586.67	H	48.15	---	-8.73	39.42	---	74.00	54.00	-14.58	Peak
1713.33	H	49.03	---	-7.73	41.30	---	74.00	54.00	-12.70	Peak
2066.67	H	47.27	---	-5.20	42.07	---	74.00	54.00	-11.93	Peak
2473.33	H	46.75	---	-3.59	43.16	---	74.00	54.00	-10.84	Peak
2886.67	H	45.93	---	-2.41	43.52	---	74.00	54.00	-10.48	Peak

REMARKS: 1. P= Peak Reading; Q= Quasi-peak Reading A= Average Reading.
2. The other emission levels were very low against the limit.