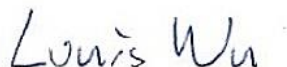


FCC/IC Test Report

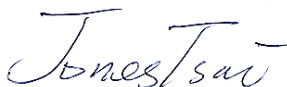
APPLICANT : Maestro Wireless Holdings Limited
EQUIPMENT : 3G WiFi Router
BRAND NAME : Maestro
MODEL NAME : E206XT
MARKETING NAME : E206XT
FCC ID : WN6-E206XT
IC : 20055-E206XT
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
ICES-003 Issue 5
CLASSIFICATION : Certification

The product was received on Mar. 17, 2015 and testing was completed on Apr. 02, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2009 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.



Reviewed by: Louis Wu / Manager



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL (SHENZHEN) INC.

**1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,
Nanshan District, Shenzhen, Guangdong, P. R. China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC531712	Rev. 01	Initial issue of report	Apr. 23, 2015



SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.109	ICES003 Section 6.2	Radiated Emission	< 15.109 limits < ICES003 6.2 limits	PASS	Under limit 3.93 dB at 53.760 MHz for Quasi-Peak

1. General Description

1.1. Applicant

Maestro Wireless Holdings Limited

FLAT A & B, 9/F, WING CHEONG FACTORY BUILDING, 121 KING LAM STREET, CHEUNG SHA WAN, HONG KONG

1.2. Manufacturer

Maestro Wireless Holdings Limited

FLAT A & B, 9/F, WING CHEONG FACTORY BUILDING, 121 KING LAM STREET, CHEUNG SHA WAN, HONG KONG

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	3G WiFi Router
Brand Name	Maestro
Model Name	E206XT
Marketing Name	E206XT
FCC ID	WN6-E206XT
IC	20055-E206XT
Integrated WWAN Module	Brand Name: AirPrime Model Name: SL9090
EUT supports Radios application	GPRS/EGPRS/WCDMA/HSPA/ WLAN2.4GHz 802.11b/g/n HT20/HT40
EUT Stage	Pre-Production

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4. Product Specification subjective to this standard

Product Specification subjective to this standard	
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz GPS : 1.57542 GHz
Antenna Type	WWAN : Dipole Antenna WLAN : Dipole Antenna GPS : Ceramic Patch Antenna
Type of Modulation	GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) GPS : BPSK



1.5. Modification of EUT

No modifications are made to the EUT during all test items.

1.6. Test Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.	
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398	
Test Site No.	Sporton Site No.	FCC/IC Registration No.
	03CH01-SZ	831040/4086F-1

1.7. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2009
- IC ICES-003 Issue 5
- IC RSS-Gen Issue 4

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The test results for FCC compliance, indicating that these results are deemed satisfactory evidence of compliance with **Industry Canada Interference-Causing Equipment Standard ICES-003**.

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2009 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

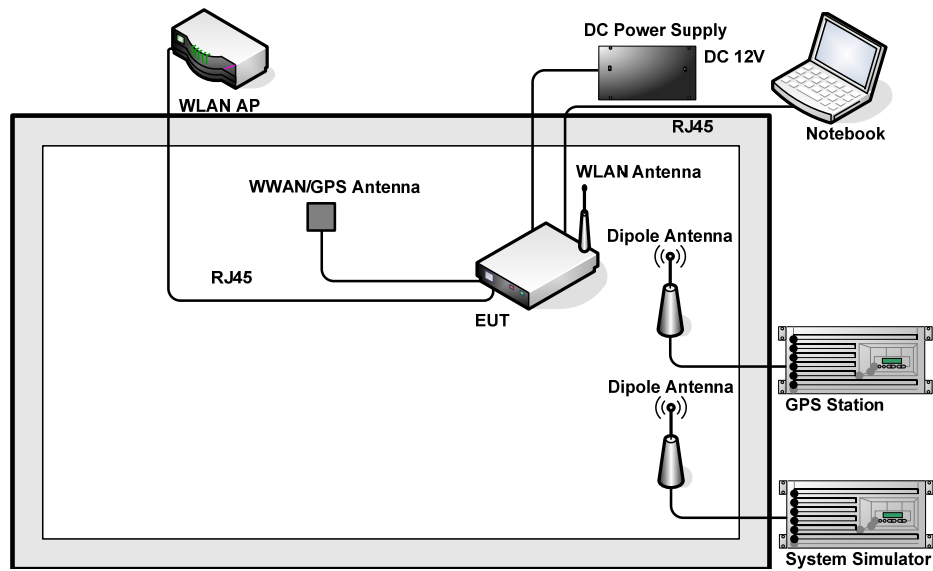
Item	EUT Configuration	Test Condition
		EMI RE
1.	Operating Mode	<input checked="" type="checkbox"/>

Abbreviations:

- EMI RE: EUT radiated emissions

Test Items	EUT Configure Mode	Function Type
Radiated Emissions	1	Mode 1 : GPRS850 Idle + WLAN Idle + GPS Rx + WAN Link + LAN Link + DC Power 12V

2.2. Connection Diagram of Test System



2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Agilent	E5515C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
4.	WLAN AP	D-Link	DIR-815	KA2IR815A1	N/A	Unshielded, 1.8 m
5.	Notebook	Lenovo	G480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	WLAN Antenna	N/A	N/A	N/A	N/A	N/A
7.	WWAN/GPS Antenna	N/A	N/A	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in GPRS idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

1. The Notebook controls to data link with EUT and Router via RJ-45. Execute "Ping" and link with Notebook via RJ-45 Cable.
2. Turn on GPS function to make the EUT receive continuous signals from GPS station.

3. Test Result

3.1. Test of Radiated Emission Measurement

3.1.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.1.2. Measuring Instruments

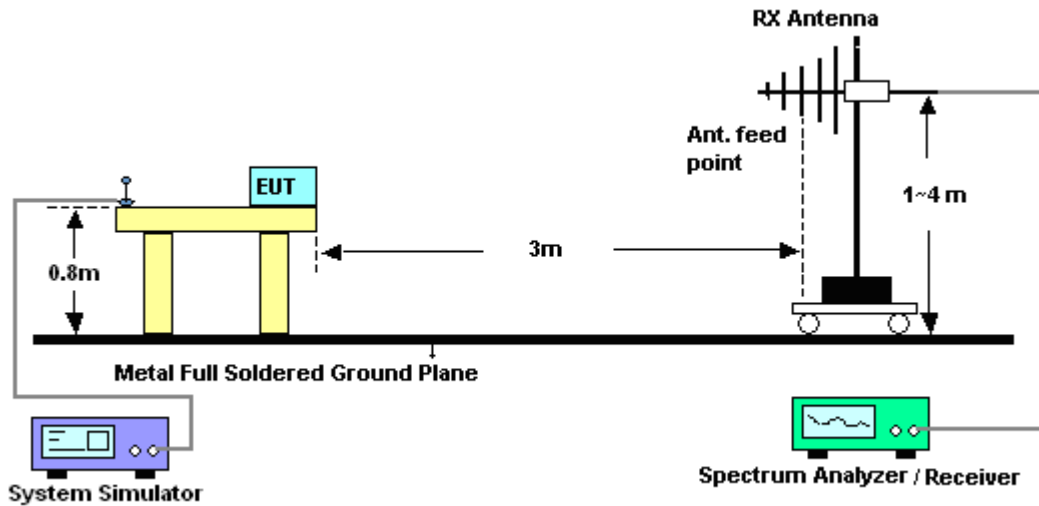
The measuring equipment is listed in the section 4 of this test report.

3.1.3. Test Procedures

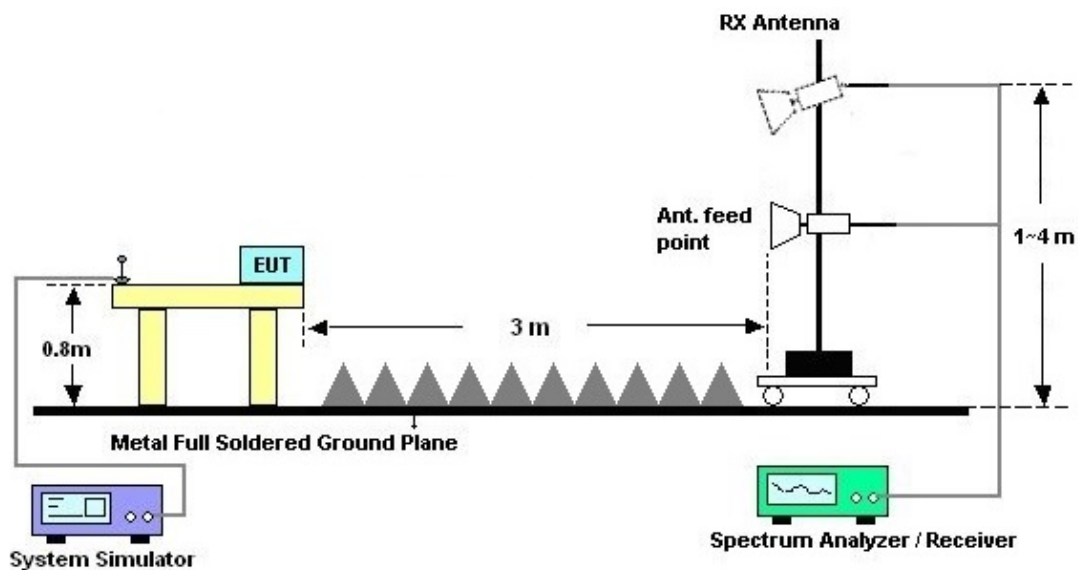
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.1.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



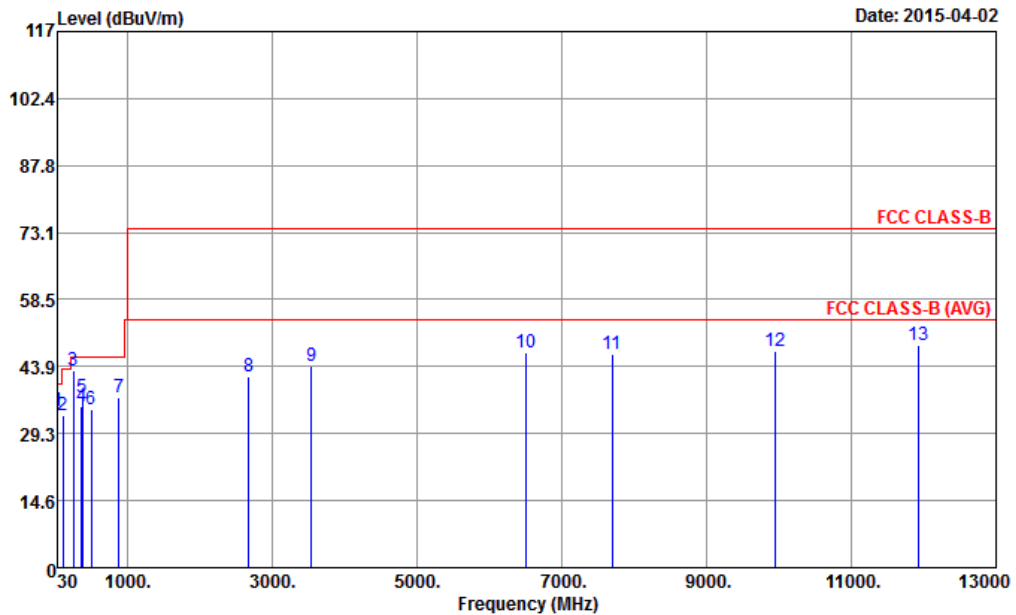
For radiated emissions above 1GHz





3.1.5. Test Result of Radiated Emission

Test Mode :	Mode 1	Temperature :	23~25°C
Test Engineer :	Gavin Zhang	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	GPRS850 Idle + WLAN Idle + GPS Rx + WAN Link + LAN Link + DC Power 12V		
Remark :	#7 is system simulator signal which can be ignored.		

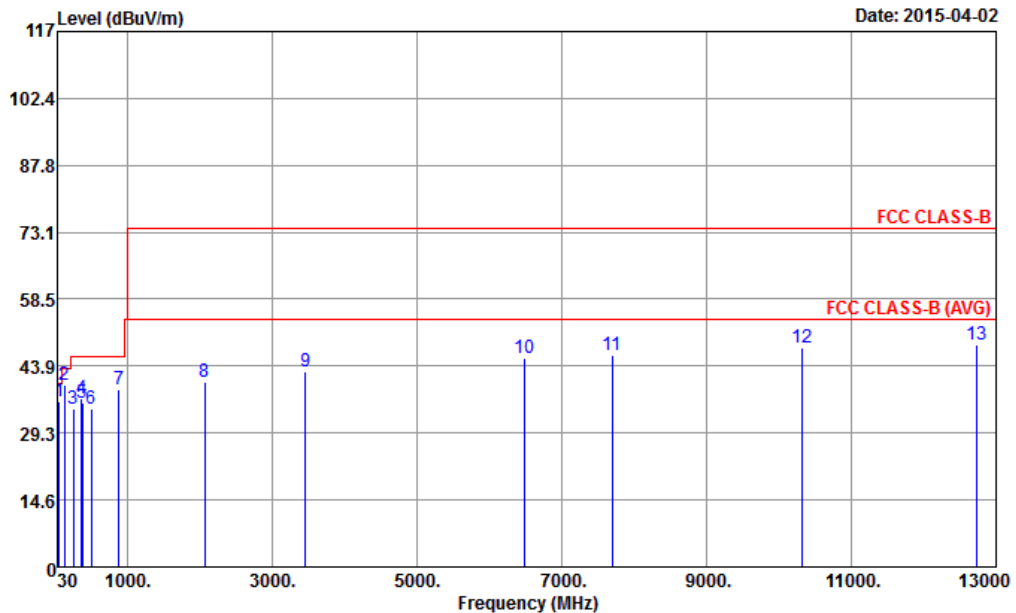


Site : 03CH01-SZ
Condition : FCC CLASS-B 3m LF_ANT_141107 HORIZONTAL
Project : (FC) 531712
Mode : Mode 1

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.35	34.32	-5.68	40.00	40.43	19.09	0.86	26.06	---	---	Peak
2	106.68	33.32	-10.18	43.50	44.80	12.67	1.59	25.74	---	---	Peak
3	250.05	42.93	-3.07	46.00	53.19	12.40	2.48	25.14	100	360	Peak
4	360.20	35.14	-10.86	46.00	42.75	14.88	3.01	25.50	---	---	Peak
5	374.90	37.27	-8.73	46.00	44.73	15.08	3.08	25.62	---	---	Peak
6	500.20	34.44	-11.56	46.00	37.81	19.40	3.57	26.34	---	---	Peak
7	881.70	37.28			36.55	21.77	4.89	25.93	---	---	Peak
8	2676.00	41.71	-32.29	74.00	50.27	32.85	9.19	50.60	---	---	Peak
9	3536.00	43.90	-30.10	74.00	49.88	33.43	11.07	50.48	---	---	Peak
10	6502.00	46.79	-27.21	74.00	46.40	36.30	14.41	50.32	---	---	Peak
11	7696.00	46.73	-27.27	74.00	45.56	36.38	15.46	50.67	---	---	Peak
12	9946.00	47.33	-26.67	74.00	41.15	38.04	18.06	49.92	---	---	Peak
13	11918.00	48.46	-25.54	74.00	40.57	39.45	18.41	49.97	100	360	Peak



Test Mode :	Mode 1	Temperature :	23~25°C
Test Engineer :	Gavin Zhang	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Vertical
Function Type :	GPRS850 Idle + WLAN Idle + GPS Rx + WAN Link + LAN Link + DC Power 12V		
Remark :	#7 is system simulator signal which can be ignored.		



Site : 03CH01-SZ
Condition : FCC CLASS-B 3m LF_ANT_141107 VERTICAL
Project : (FC) 531712
Mode : Mode 1

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	53.76	36.07	-3.93	40.00	51.45	9.48	1.11	25.97	107	76 QP
2	125.04	39.89	-3.61	43.50	49.38	14.43	1.73	25.65	---	---
3	250.05	34.58	-11.42	46.00	44.84	12.40	2.48	25.14	---	---
4	360.20	36.94	-9.06	46.00	44.55	14.88	3.01	25.50	---	---
5	374.90	35.95	-10.05	46.00	43.41	15.08	3.08	25.62	---	---
6	500.20	34.48	-11.52	46.00	37.85	19.40	3.57	26.34	---	---
7	881.70	38.86			38.13	21.77	4.89	25.93	---	---
8	2066.00	40.47	-33.53	74.00	51.08	32.27	8.07	50.95	---	---
9	3460.00	42.77	-31.23	74.00	48.96	33.38	10.85	50.42	---	---
10	6474.00	45.48	-28.52	74.00	45.13	36.27	14.36	50.28	---	---
11	7700.00	46.41	-27.59	74.00	45.24	36.38	15.46	50.67	---	---
12	10310.00	47.79	-26.21	74.00	42.22	38.35	17.46	50.24	---	---
13	12740.00	48.64	-25.36	74.00	40.71	39.15	18.68	49.90	100	230 Peak

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI TEST Receiver	R&S	ESCI7	100768	9kHz~3GHz	May 04, 2014	Apr. 02, 2015	May 03, 2015	Radiation (03CH01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2014	Apr. 02, 2015	May 25, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	37877	30MHz~2GHz	Oct. 15, 2014	Apr. 02, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Apr. 02, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Amplifier	com-power	PA-103A	161069	1~1000MHz	May 04, 2014	Apr. 02, 2015	May 03, 2015	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 08, 2014	Apr. 02, 2015	May 07, 2015	Radiation (03CH01-SZ)
AC Source	Chroma	61601ACSOU RCE	616010002470	100Vac~240Vac	NCR	Apr. 02, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Apr. 02, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Apr. 02, 2015	NCR	Radiation (03CH01-SZ)



5. Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.9dB
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