

# Test Report of FCC Part 15 B for FCC Certificate

On Behalf of

## Xi'an Chenxi Aviation Technology Co.,Ltd

**Product Description:** GPS-AV8OR-ACE

**Model No.:** 066-01209-0099

**FCC ID:** XBF-BST86410

**Prepared for:** Xi'an Chenxi Aviation Technology Co., Ltd  
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**Report No.:** BCT09FR-485E-2

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**Test by:**

**Reviewed By:**

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## TABLE OF CONTENTS

<b>1 - GENERAL INFORMATION.....</b>	<b>3</b>
1.1 Product Description for Equipment Under Test (EUT) .....	3
1.2 Related Submittal(s) / Grant (s) .....	4
1.3 Test Methodology .....	4
1.4 Test Facility .....	4
<b>2. SYSTEM TEST CONFIGURATION .....</b>	<b>5</b>
2.1 EUT Configuration .....	5
2.2 EUT Exercise .....	5
2.3 General Test Procedures .....	5
2.4 List of Measuring Equipments Used .....	6
<b>3. SUMMARY OF TEST RESULTS .....</b>	<b>7</b>
<b>4 - DISTURBANCE VOLTAGE AT THE MAINS TERMINALS.....</b>	<b>8</b>
4.1 Limit of Disturbance Voltage at The Mains Terminals (Class B).....	8
4.2 EUT Setup .....	8
4.3 Test Setup Diagram .....	8
4.4 Instrument Setup.....	9
4.5 Test Procedure .....	9
4.6 Disturbance Voltage Test Data .....	9
<b>5 - RADIATED DISTURBANCES .....</b>	<b>16</b>
5.1 Limit of Radiated Disturbances (Class B) .....	16
5.2 EUT Setup .....	16
5.3 EUT Setup .....	16
5.4 Test Receiver Setup .....	17
5.5 Test Procedure .....	17
5.6 Corrected Amplitude & Margin Calculation .....	17
5.7 Radiated Emissions Test Result .....	17

# 1 - GENERAL INFORMATION

## 1.1 Product Description for Equipment Under Test (EUT)

### Client Information

Applicant: **Xi'an Chenxi Aviation Technology Co., Ltd**  
Address of applicant: No.11, Area C, No.69, Jin Ye Road,. Xi'an, Shanxi, China  
Manufacturer: **Xi'an Chenxi Aviation Technology Co., Ltd**  
Address of manufacturer: No.11, Area C, No.69, Jin Ye Road,. Xi'an, Shanxi, China

### General Description of E.U.T

Items	Description
EUT Description:	GPS-AV8OR-ACE
Trade Name:	BendixKing
Model No.:	066-01209-0099
Supplementary Model No.:	N/A
Type of Modulation:	FHSS
Frequency Band:	2401 MHz ~ 2479 MHz
Number of Channels:	79
Channel Bandwidth:	1 MHz
Antenna Type:	Built-in Antenna
Rated Voltage:	3.7 V from inner rechargeable battery, AC/DC Adaptor and car-used Adaptor are attached.
Adaptor Specification:	AC Adapter : Brand Name: SENWIN Model No.: GFP151DA-050250B-1 Input:AC 100-240V 50/60Hz,Output:DC 5V 2.5A Length:1.8M  DC Adapter: Brand Name: ATER Model No.: R87-08016-101328 Input: DC 10-28V, Output: DC 5V 2.5A Length:1.4M

*\* The test data gathered are from the production sample provided by the manufacturer.*

## **1.2 Related Submittal(s) / Grant (s)**

This submittal(s) is a test report based on the Electromagnetic Interference (EMI) tests performed on the EUT. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4 - 2003.

The tests were performed in order to determine compliance with FCC Part 15, Subpart B, section 15.107 and section 15.109 rules.

## **1.3 Test Methodology**

Both conducted and radiated testing were performed according to the procedures in ANSI 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. Radiated testing was performed at an antenna to EUT distance 3 meters.

## **1.4 Test Facility**

All measurement required was performed at laboratory of Bontek Compliance Testing Laboratory Ltd at 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China

The test facility is recognized, certified, or accredited by the following organizations:

### **FCC – Registration No.: 338263**

Bontek Compliance Testing Laboratory Ltd EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 338263, March 24, 2008.

### **IC Registration No.: 126111**

The 3m alternate test site of Bontek Compliance Testing Laboratory Ltd EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 126111 on March, 2008.

## **2. SYSTEM TEST CONFIGURATION**

The tests documented in this report were performed in accordance with ANSI C63.4-2003 and FCC CFR 47 Part 15 Subpart B, section 15.107 and section 15.109..

### **2.1 EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

### **2.2 EUT Exercise**

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

### **2.3 General Test Procedures**

Conducted Emissions: The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is placed on a turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2003.

## 2.4 List of Measuring Equipments Used

Items	Equipment	Manufacturer	Model No.	Serial No.	Last Cal	Calibration Period
1	EMI Test Receiver	R&S	ESCI	100687	2009-2-22	1 Year
2	EMI Test Receiver	R&S	ESPI	100097	2009-2-22	1 Year
3	Amplifier	HP	8447D	1937A024 92	2009-2-22	1 Year
4	3 phase Artificial Mains (L.I.S.N)	SCHWARZBECK	NSLK 8128	8128247	2009-3-31	1 Year
5	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2009-2-22	1 Year
6	Horn Antenna	SCHWARZBECK	BBHA9120A	D69250	2009-2-27	1 Year
7	High Field Biconical Antenna	ELECTRO-METRICS	EM-6913	166	2009-9-04	1 Year
8	Log Periodic Antenna	ELECTRO-METRICS	EM-6950	811	2009-9-04	1 Year
9	Remote Active Vertical Antenna	ELECTRO-METRICS	EM-6892	304	2009-9-04	1 Year
10	Power Clamp	SCHWARZBECK	MDS-21	3812	2009-2-22	1 Year

### 3. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
15.107	Disturbance Voltage at The Mains Terminals	Pass
15.109	Radiation Emission	Pass

## 4 - DISTURBANCE VOLTAGE AT THE MAINS TERMINALS

### 4.1 Limit of Disturbance Voltage at The Mains Terminals (Class B)

Frequency Range (MHz)	Limits ( dBuV)	
	Quasi-Peak	Average
0.150~0.500	66~56	56~46
0.500~5.000	56	46
5.000~30.00	60	50

Note: (1)The tighter limit shall apply at the edge between two frequency bands.

### 4.2 EUT Setup

The setup of EUT is according with ANSI C63.4-2003 measurement procedure. The specification used was the FCC Rules and Regulations Part 15 Subpart B Section 15.107 Class B limits.

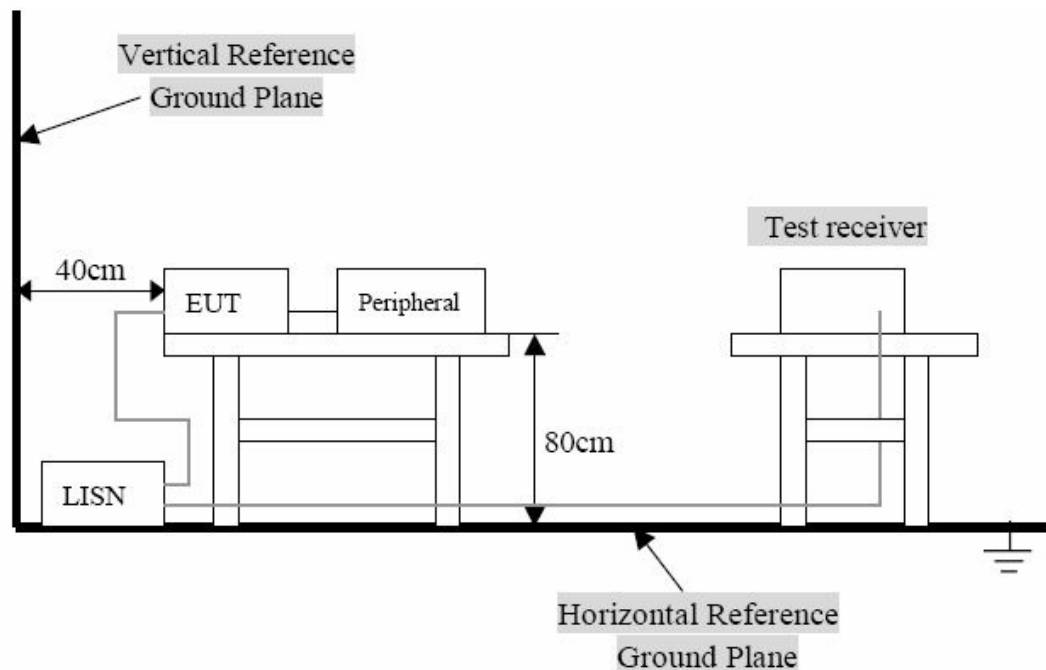
The EUT was placed center and the back edge of the test table.

The AV cables were draped along the test table and bundled to 30-40cm in the middle.

The spacing between the peripherals was 10 cm.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.

### 4.3 Test Setup Diagram





#### 4.4 Instrument Setup

The test receiver was set with the following configurations:

Test Receiver Setting:

Frequency Range.....150 KHz to 30 MHz  
Detector.....Peak & Quasi-Peak & Average  
Sweep Speed.....Auto  
IF Band Width.....9 KHz

#### 4.5 Test Procedure

During the conducted emission test, the EUT power cord was connected to the auxiliary outlet of the first Artificial Mains.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All data was recorded in the peak detection mode. Quasi-peak and Average readings were only performed when an emission was found to be marginal (within -10 dB $\mu$ V of specification limits). Quasi-peak readings are distinguished with a "**QP**". Average readings are distinguished with a "**Av**".

#### 4.6 Disturbance Voltage Test Data

Temperature ( °C ) : 22~23	EUT: GPS-AV8OR-ACE
Humidity (%RH ) : 50~54	M/N: 066-01209-0099
Barometric Pressure ( mbar ) : 950~1000	Operation Condition: Normal Operation

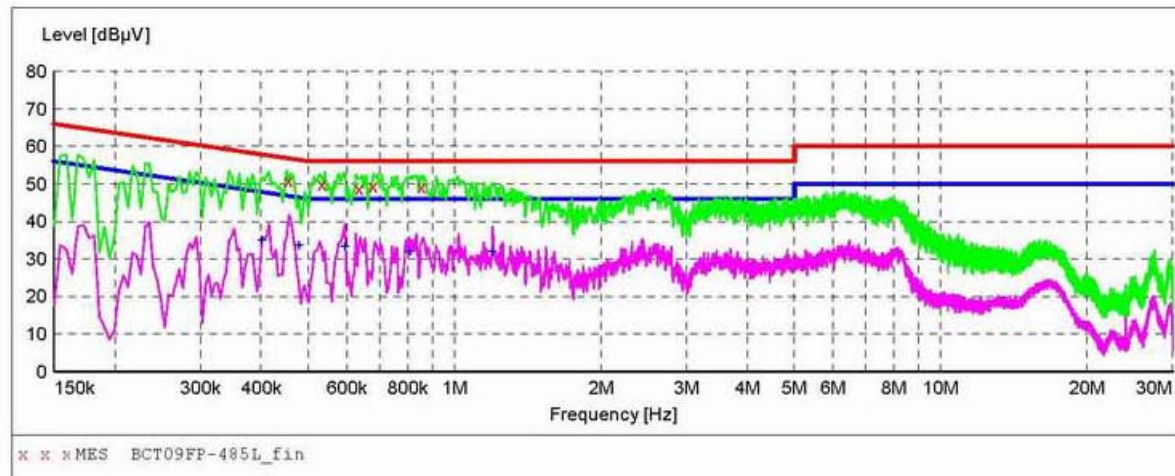
**Remark:** (1) When PK reading is less than relevant limit 20dB, the QP reading and AV reading will not be recorded.  
(2) Where QP reading is less than relevant AV limit, the AV reading will not be measured

## Conducted Emission from Connect to PC

EUT: GPS M/N:GPS-AV80R-ACE  
Manufacturer: BCT  
Operating Condition: CONNECT TO PC  
Test Site: SHIELDED ROOM  
Operator: HGCHI  
Test Specification: AC 120V/60Hz  
Comment: L LINE  
Temperature:24 Humidity:55%

### SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



### MEASUREMENT RESULT: "BCT09FP-485L\_fin"

6/3/2009 23:01

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.456000	50.90	10.3	57	5.9	QP	L1	GND
0.532500	49.90	10.2	56	6.1	QP	L1	GND
0.636000	48.80	10.2	56	7.2	QP	L1	GND
0.681000	49.40	10.2	56	6.6	QP	L1	GND
0.856500	49.20	10.2	56	6.8	QP	L1	GND

### MEASUREMENT RESULT: "BCT09FP-485L\_fin2"

6/3/2009 23:01

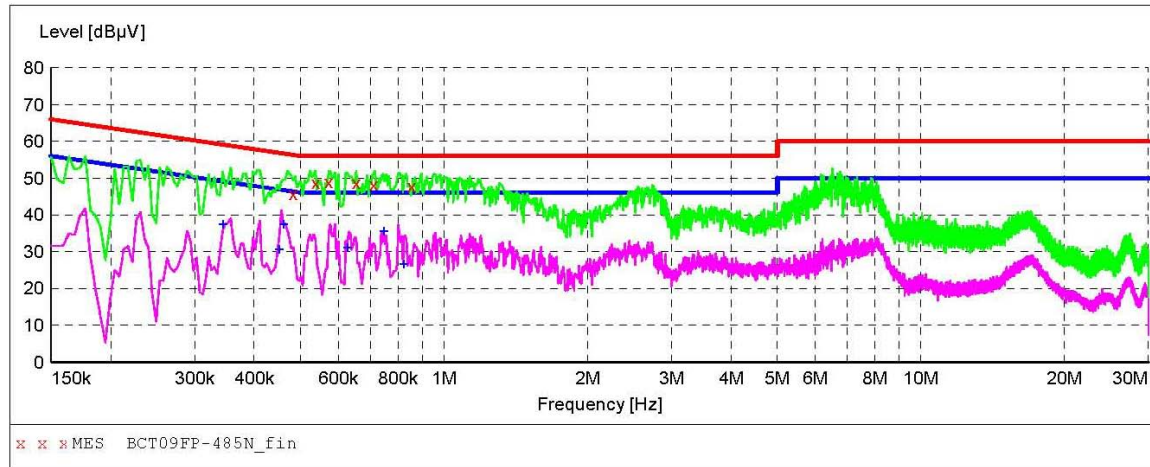
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.402000	35.10	10.4	48	12.7	AV	L1	GND
0.478500	33.80	10.3	46	12.6	AV	L1	GND
0.595500	33.50	10.2	46	12.5	AV	L1	GND
0.802500	32.20	10.2	46	13.8	AV	L1	GND
1.194000	32.10	10.3	46	13.9	AV	L1	GND

## Conducted Emission from Connect to PC

EUT: GPS M/N:GPS-AV80R-ACE  
Manufacturer: BCT  
Operating Condition: CONNECT TO PC  
Test Site: SHIELDED ROOM  
Operator: HGCHI  
Test Specification: AC 120V/60Hz  
Comment: N LINE  
Temperature:24 Humidity:55%

### SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage



### MEASUREMENT RESULT: "BCT09FP-485N\_fin"

6/3/2009 23:04

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.483000	45.60	10.3	56	10.7	QP	N	GND
0.537000	48.80	10.2	56	7.2	QP	N	GND
0.573000	49.10	10.2	56	6.9	QP	N	GND
0.654000	48.70	10.2	56	7.3	QP	N	GND
0.712500	48.20	10.2	56	7.8	QP	N	GND
0.856500	47.90	10.2	56	8.1	QP	N	GND

### MEASUREMENT RESULT: "BCT09FP-485N\_fin2"

6/3/2009 23:04

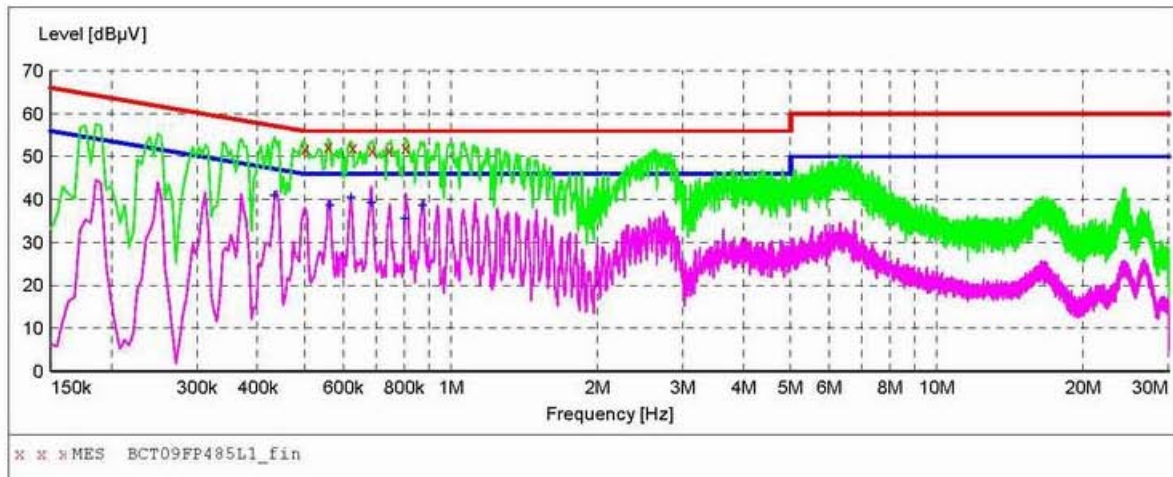
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.343500	37.40	10.5	49	11.7	AV	N	GND
0.451500	30.80	10.3	47	16.0	AV	N	GND
0.460500	37.40	10.3	47	9.3	AV	N	GND
0.627000	31.10	10.2	46	14.9	AV	N	GND
0.748500	35.60	10.2	46	10.4	AV	N	GND
0.825000	26.80	10.2	46	19.2	AV	N	GND

## Conducted Emission from AC/DC Adaptor:

EUT: GPS M/N:GPS-AV8OR-ACE  
Manufacturer: BCT  
Operating Condition: CHARGING  
Test Site: SHIELDED ROOM  
Operator: HGCHI  
Test Specification: AC 120V/60Hz  
Comment: L LINE  
Temperature:24 Humidity:55%

### SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage



### MEASUREMENT RESULT: "BCT09FP485L1\_fin"

6/4/2009 08:30

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.501000	52.00	10.2	56	4.0	QP	L1	GND
0.559500	52.30	10.2	56	3.7	QP	L1	GND
0.627000	52.10	10.2	56	3.9	QP	L1	GND
0.690000	51.50	10.2	56	4.5	QP	L1	GND
0.744000	51.40	10.2	56	4.6	QP	L1	GND
0.807000	52.10	10.2	56	3.9	QP	L1	GND

### MEASUREMENT RESULT: "BCT09FP485L1\_fin2"

6/4/2009 08:30

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.433500	41.10	10.3	47	6.1	AV	L1	GND
0.564000	38.80	10.2	46	7.2	AV	L1	GND
0.622500	40.60	10.2	46	5.4	AV	L1	GND
0.685500	39.40	10.2	46	6.6	AV	L1	GND
0.802500	35.70	10.2	46	10.3	AV	L1	GND
0.874500	38.80	10.2	46	7.2	AV	L1	GND

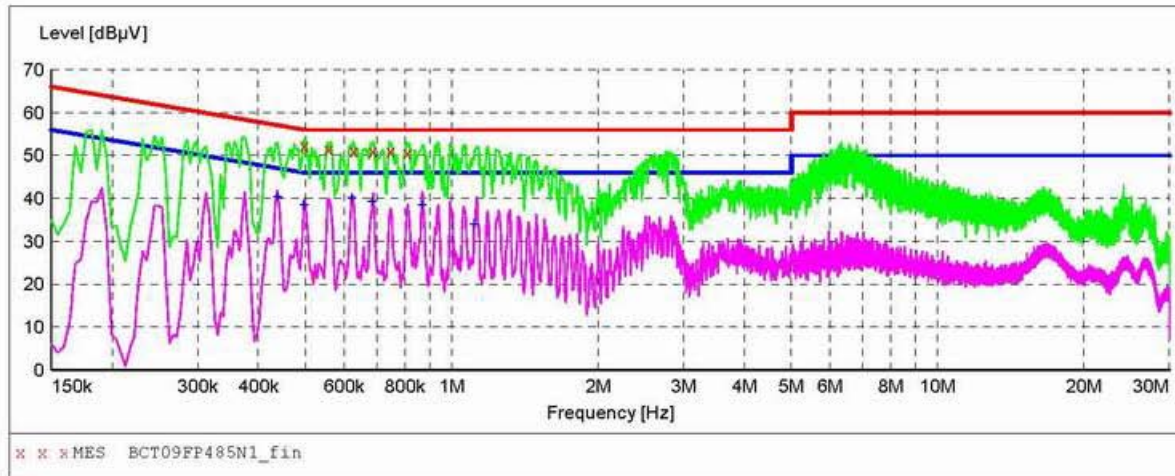


## Conducted Emission from AC/DC Adaptor:

EUT: GPS M/N:GPS-AV80R-ACE  
Manufacturer: BCT  
Operating Condition: CHARGING  
Test Site: SHIELDED ROOM  
Operator: HGCHI  
Test Specification: AC 120V/60Hz  
Comment: N LINE  
Temperature:24 Humiuity:55%

### SCAN TABLE: "Voltage (150K-30M)FIN"

Short Description: 150K-30M Voltage



### MEASUREMENT RESULT: "BCT09FP485N1\_fin"

6/4/2009 08:27

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.496500	52.30	10.3	56	3.8	QP	N	GND
0.559500	51.60	10.2	56	4.4	QP	N	GND
0.627000	51.10	10.2	56	4.9	QP	N	GND
0.690000	51.20	10.2	56	4.8	QP	N	GND
0.748500	51.20	10.2	56	4.8	QP	N	GND
0.811500	50.80	10.2	56	5.2	QP	N	GND

### MEASUREMENT RESULT: "BCT09FP485N1\_fin2"

6/4/2009 08:27

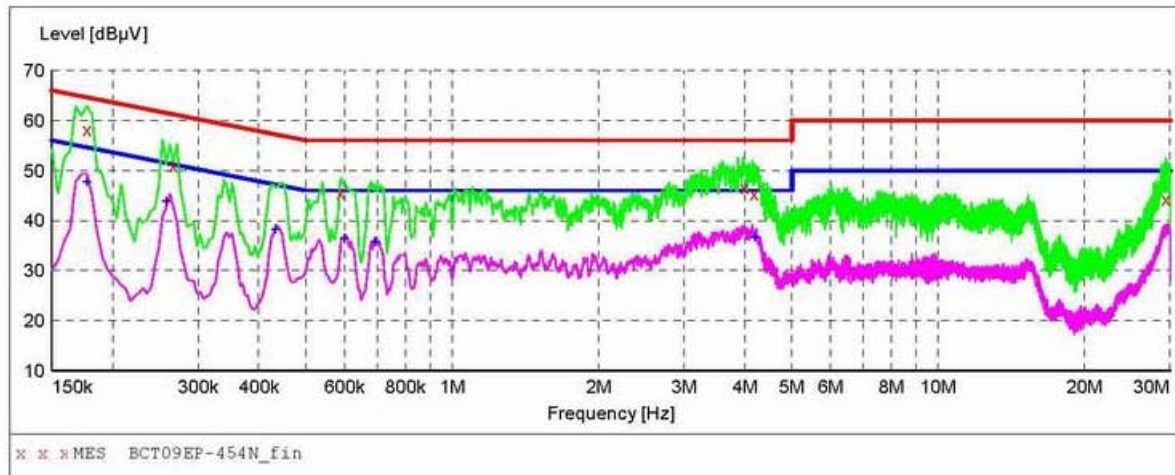
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.438000	40.50	10.3	47	6.6	AV	N	GND
0.496500	38.50	10.3	46	7.6	AV	N	GND
0.622500	40.20	10.2	46	5.8	AV	N	GND
0.685500	39.50	10.2	46	6.5	AV	N	GND
0.870000	38.50	10.2	46	7.5	AV	N	GND
1.113000	34.10	10.3	46	11.9	AV	N	GND

## Conducted Emission from Car Adaptor

EUT: M/N:GPS-AV8OR-ACE  
Manufacturer: BCT  
Operating Condition: CAR ADAPTOR CHARGING  
Test Site: SHIELDED ROOM  
Operator: CHI  
Test Specification: AC120V / 60Hz  
Comment: N LINE  
Temperature:24 Humiuity:60%

### SCAN TABLE: "Voltage(150K-30M)FIN"

Short Description: 150K-30M Voltage



### MEASUREMENT RESULT: "BCT09EP-454N\_fin"

6/4/2009 08:45

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.177000	58.20	11.1	65	6.4	QP	N	GND
0.267000	51.00	10.6	61	10.2	QP	N	GND
0.591000	45.50	10.2	56	10.5	QP	N	GND
3.997500	46.50	10.3	56	9.5	QP	N	GND
4.177500	45.30	10.3	56	10.7	QP	N	GND
29.341500	44.30	11.1	60	15.7	QP	N	GND

### MEASUREMENT RESULT: "BCT09EP-454N\_fin2"

6/4/2009 08:45

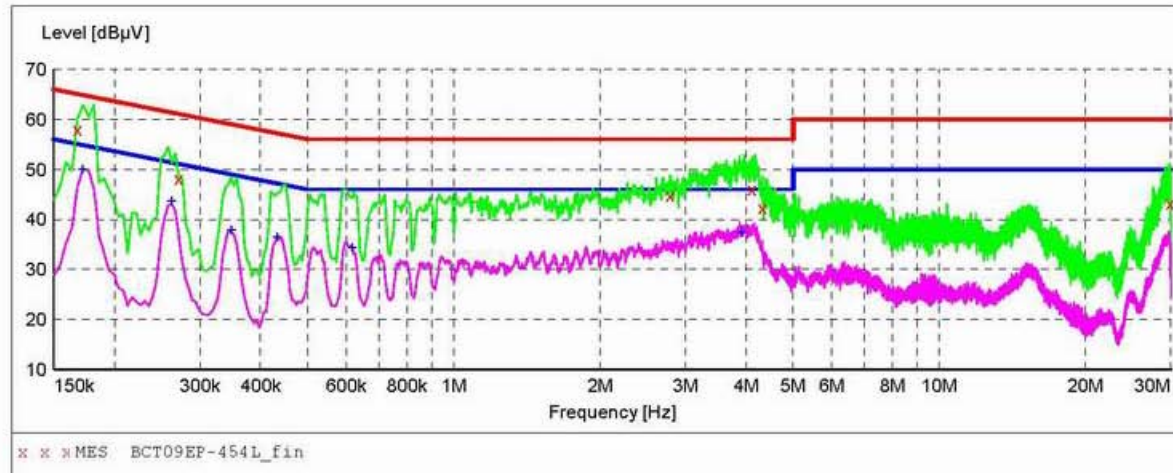
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.177000	47.90	11.1	55	6.7	AV	N	GND
0.258000	44.00	10.7	52	7.5	AV	N	GND
0.433500	38.30	10.3	47	8.9	AV	N	GND
0.600000	36.60	10.2	46	9.4	AV	N	GND
0.694500	35.90	10.2	46	10.1	AV	N	GND
4.191000	36.80	10.3	46	9.2	AV	N	GND

## Conducted Emission from Car Adaptor

EUT: M/N:GPS-AV8OR-ACE  
Manufacturer: BCT  
Operating Condition: CAR ADAPTOR CHARGING  
Test Site: SHIELDED ROOM  
Operator: CHI  
Test Specification: AC120V / 60Hz  
Comment: L LINE  
Temperature:24 Humiuity:60%

### SCAN TABLE: "Voltage (150K-30M)FIN"

Short Description: 150K-30M Voltage



### MEASUREMENT RESULT: "BCT09EP-454L\_fin"

6/4/2009 08:49

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.168000	58.10	11.2	65	7.0	QP	L1	GND
0.271500	48.20	10.6	61	12.9	QP	L1	GND
2.782500	44.90	10.2	56	11.1	QP	L1	GND
4.119000	46.00	10.3	56	10.0	QP	L1	GND
4.330500	42.30	10.3	56	13.7	QP	L1	GND
29.832000	43.30	11.1	60	16.7	QP	L1	GND

### MEASUREMENT RESULT: "BCT09EP-454L\_fin2"

6/4/2009 08:49

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.172500	50.10	11.1	55	4.7	AV	L1	GND
0.262500	43.70	10.6	51	7.7	AV	L1	GND
0.348000	38.00	10.5	49	11.0	AV	L1	GND
0.433500	36.50	10.3	47	10.7	AV	L1	GND
0.618000	34.50	10.2	46	11.5	AV	L1	GND
3.907500	37.50	10.3	46	8.5	AV	L1	GND

## 5 - RADIATED DISTURBANCES

### 5.1 Limit of Radiated Disturbances (Class B)

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB $\mu$ V/m)
30 ~ 88	3	40
88~216	3	43.5
216 ~ 960	3	46
960 ~ 1000	3	54

Note: (1) The tighter limit shall apply at the edge between two frequency bands.  
(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

### 5.2 EUT Setup

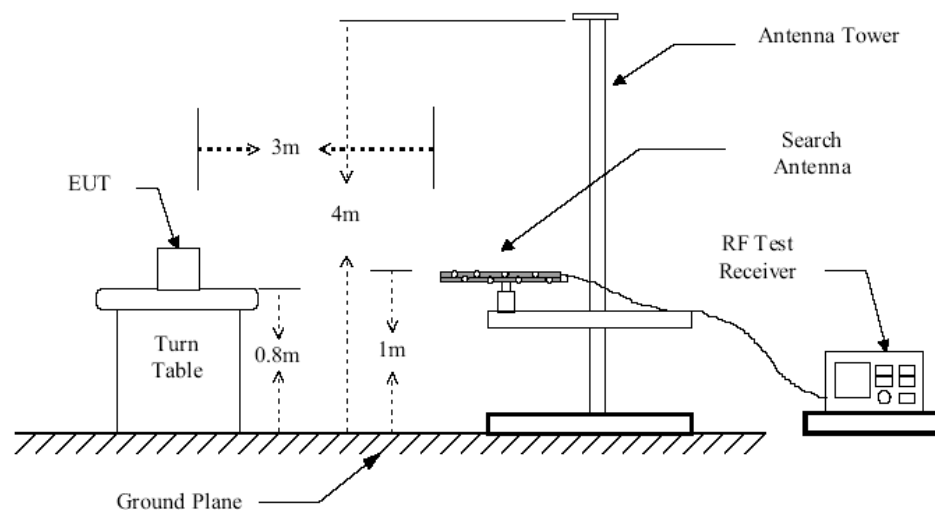


Figure 1 : Frequencies measured below 1 GHz configuration

### 5.3 EUT Setup

The radiated emission tests were performed in the in the 3-meter anechoic chamber, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part 15 Subpart B Section 15.109 limits.

The EUT was placed on the center of the test table.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.



## 5.4 Test Receiver Setup

According to FCC Part 15 rule, the frequency was investigated from 30 to 1000 MHz. During the radiated emission test, the test receiver was set with the following configurations:

Test Receiver Setting:

Detector.....Peak & Quasi-Peak  
IF Band Width.....120KHz  
Frequency Range.....30MHz to 1000MHz  
Turntable Rotated.....0 to 360 degrees

Antenna Position:

Height.....1m to 4m  
Polarity.....Horizontal and Vertical

## 5.5 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the peak detection mode. Quasi-peak readings performed only when an emission was found to be marginal (within -10 dB $\mu$ V of specification limits), and are distinguished with a "QP" in the data table.

## 5.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB $\mu$ V means the emission is 7dB $\mu$ V below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Class B Limit}$$

## 5.7 Radiated Emissions Test Result

Temperature ( °C ) : 22~23	EUT: GPS-AV8OR-ACE
Humidity (%RH) : 50~54	M/N: 066-01209-0099
Barometric Pressure ( mbar ) : 950~1000	Operation Condition: Normal Operation

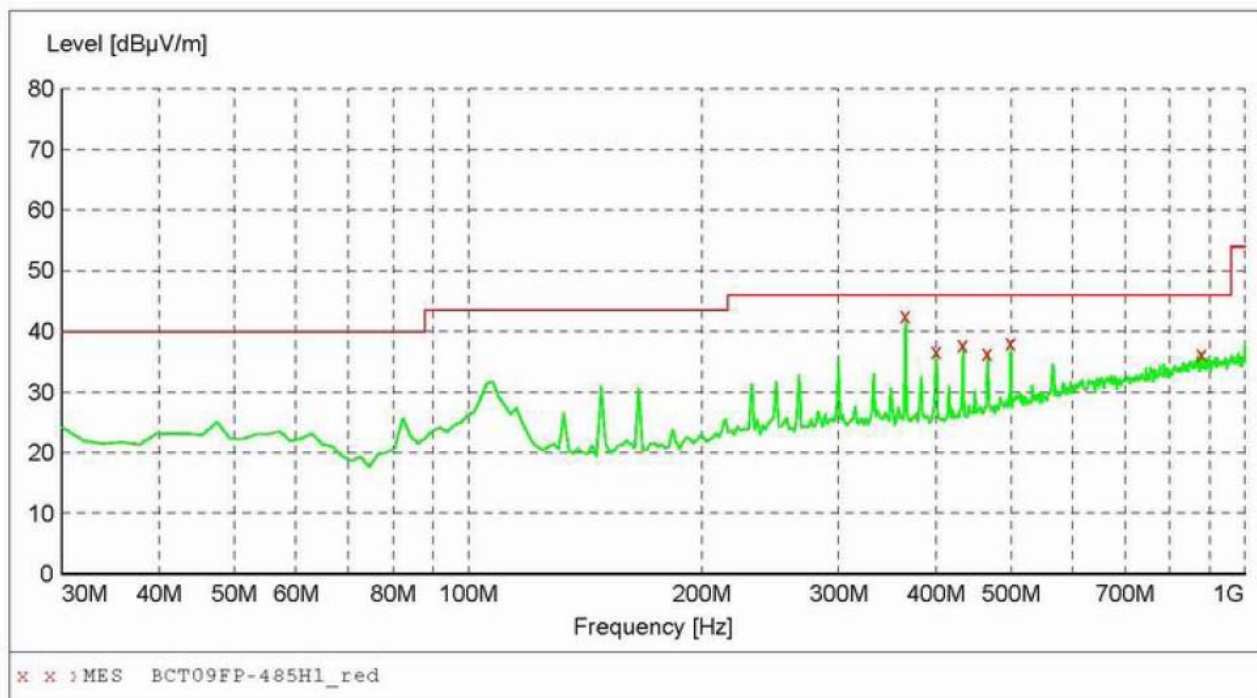
**Remark:** (1) When PK reading is less than relevant limit 20dB, the QP reading and AV reading will not be recorded.  
(2) Where QP reading is less than relevant AV limit, the AV reading will not be measured

## RADIATED EMISSION TEST DATA OF MP4 PLAYING

EUT: M/N:GPS-AV80R-ACE  
 Manufacturer: N/A  
 Operating Condition: MUSIC PLAYING  
 Test Site: CHAMBER  
 Operator: CHEN  
 Test Specification: AC120V/60Hz  
 Comment: Polarisation:H  
 Start of Test: 6/3/2009 / 21:37:59

### ***SWEEP TABLE: "test (30M-1G)"***

Short Description:		Field Strength				Transducer
Start	Stop	Detector	Meas.	IF		
Frequency	Frequency		Time	Bandw.		
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz		VULB9163 NEW



### ***MEASUREMENT RESULT: "BCT09FP-485H1\_red"***

6/3/2009 21:39

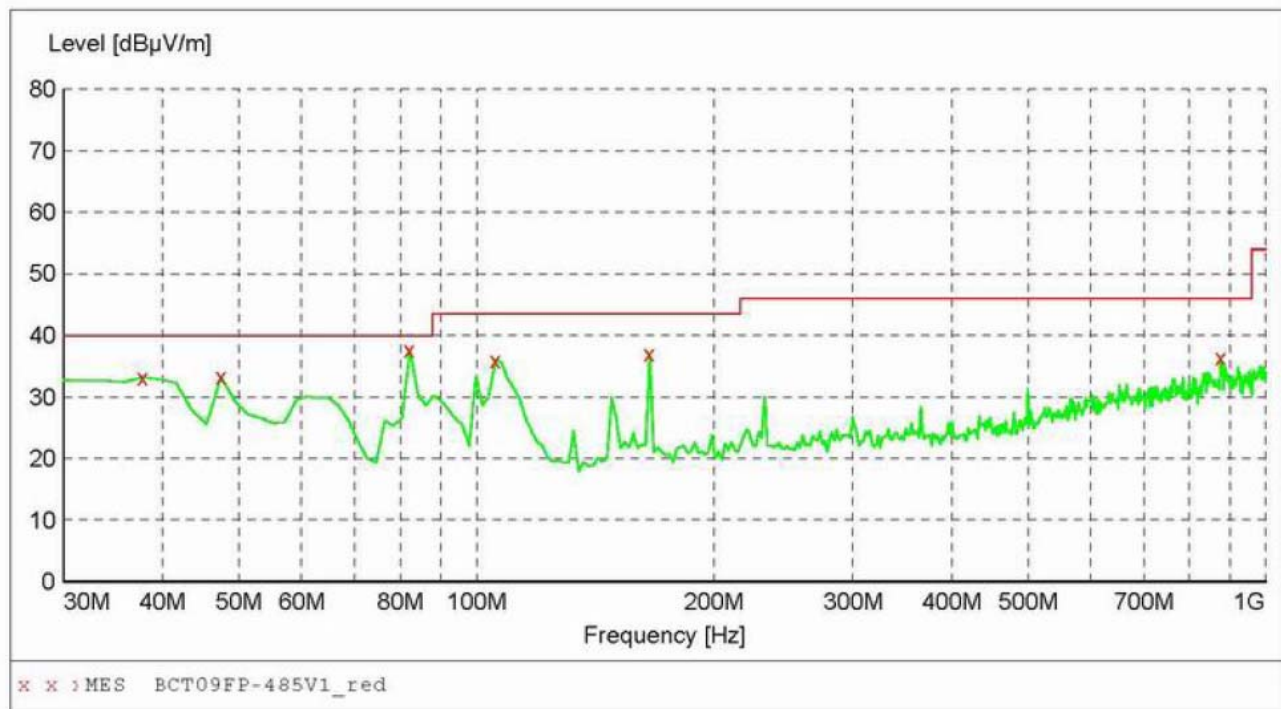
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
365.620000	42.60	20.8	46.0	3.4	QP	100.0	0.00	HORIZONTAL
400.540000	36.70	20.6	46.0	9.3	QP	100.0	0.00	HORIZONTAL
433.520000	37.80	21.3	46.0	8.2	QP	100.0	0.00	HORIZONTAL
466.500000	36.40	21.7	46.0	9.6	QP	100.0	0.00	HORIZONTAL
499.480000	38.10	22.7	46.0	7.9	QP	100.0	0.00	HORIZONTAL
879.720000	36.30	29.0	46.0	9.7	QP	100.0	0.00	HORIZONTAL

## RADIATED EMISSION TEST DATA OF MP4 PLAYING

EUT: M/N:GPS-AV80R-ACE  
 Manufacturer: N/A  
 Operating Condition: MUSIC PLAYING  
 Test Site: CHAMBER  
 Operator: CHEN  
 Test Specification: AC120V/60Hz  
 Comment: Polarisation:V  
 Start of Test: 6/3/2009 / 21:36:52

### ***SWEEP TABLE: "test (30M-1G)"***

Short Description:		Field Strength			
Start	Stop	Detector	Meas.	IF	Transducer
Frequency	Frequency		Time	Bandw.	
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



### ***MEASUREMENT RESULT: "BCT09FP-485V1\_red"***

6/3/2009 21:37

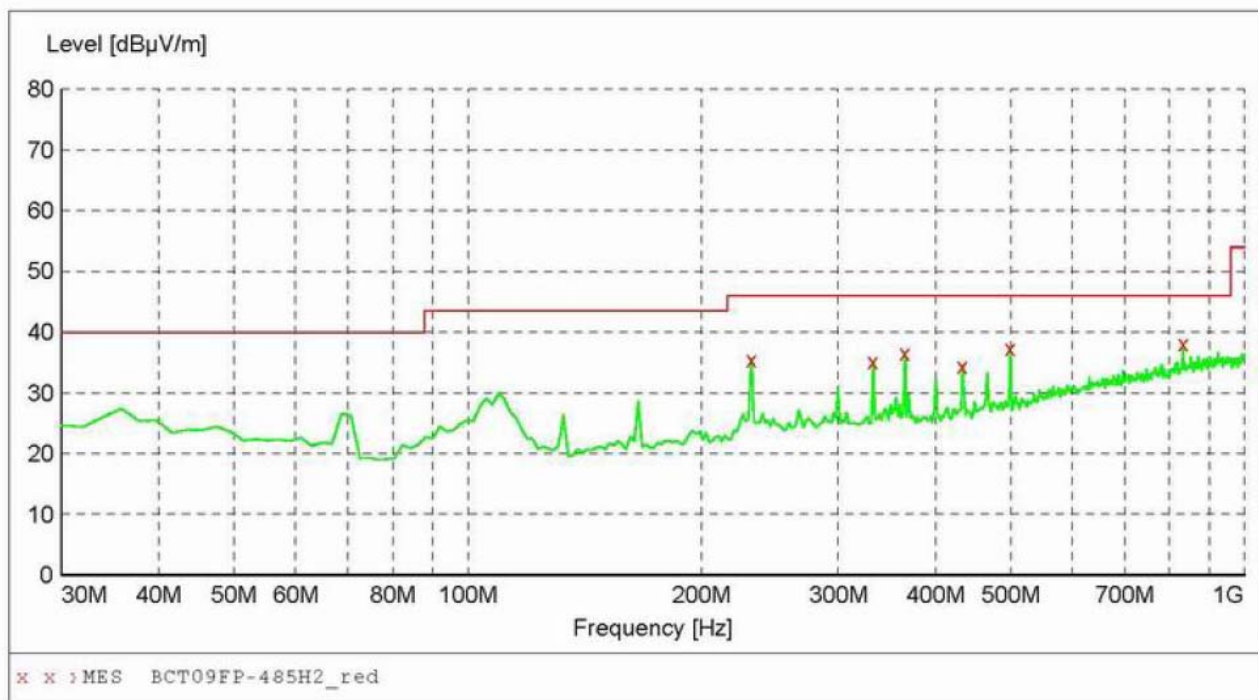
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
37.760000	33.20	16.2	40.0	6.8	QP	100.0	0.00	VERTICAL
47.460000	33.30	16.7	40.0	6.7	QP	100.0	0.00	VERTICAL
82.380000	37.70	14.4	40.0	2.3	QP	100.0	0.00	VERTICAL
105.660000	36.00	17.9	43.5	7.5	QP	100.0	0.00	VERTICAL
165.800000	37.00	14.9	43.5	6.5	QP	100.0	0.00	VERTICAL
875.840000	36.50	29.0	46.0	9.5	QP	100.0	0.00	VERTICAL

## RADIATED EMISSION TEST DATA OF CHARGING MODE

EUT: M/N:GPS-AV80R-ACE  
 Manufacturer: N/A  
 Operating Condition: CHARGING  
 Test Site: CHAMBER  
 Operator: CHEN  
 Test Specification: AC120V/60Hz  
 Comment: Polarisation:H  
 Start of Test: 6/3/2009 / 21:43:26

### SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency				
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



### MEASUREMENT RESULT: "BCT09FP-485H2\_red"

6/3/2009 21:44

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
231.760000	35.50	17.7	46.0	10.5	QP	100.0	0.00	HORIZONTAL
332.640000	35.20	20.7	46.0	10.8	QP	100.0	0.00	HORIZONTAL
365.620000	36.60	20.8	46.0	9.4	QP	100.0	0.00	HORIZONTAL
433.520000	34.50	21.3	46.0	11.5	QP	100.0	0.00	HORIZONTAL
499.480000	37.30	22.7	46.0	8.7	QP	100.0	0.00	HORIZONTAL
833.160000	38.10	28.4	46.0	7.9	QP	100.0	0.00	HORIZONTAL

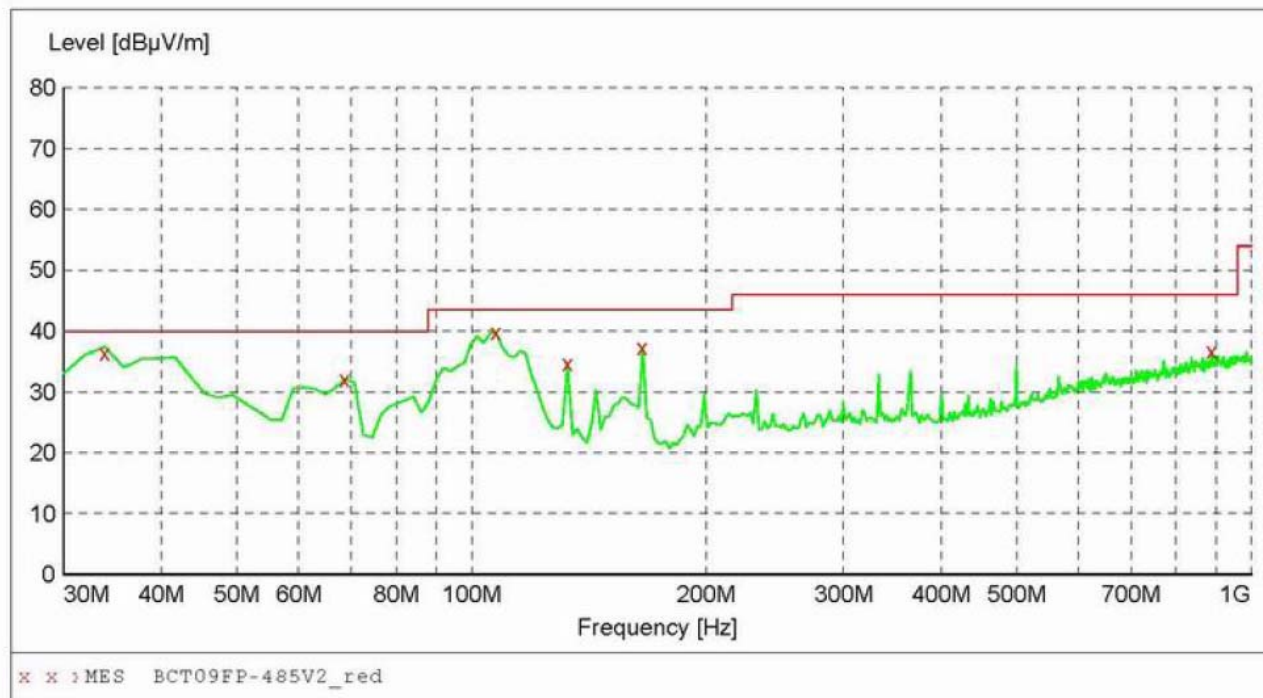


## RADIATED EMISSION TEST DATA OF CHARGING MODE

EUT: M/N:GPS-AV80R-ACE  
 Manufacturer: N/A  
 Operating Condition: CHARGING  
 Test Site: CHAMBER  
 Operator: CHEN  
 Test Specification: AC120V/60Hz  
 Comment: Polarisation:V  
 Start of Test: 6/3/2009 / 21:45:42

### SWEEP TABLE: "test (30M-1G)"

Short Description:		Field Strength				Transducer
Start	Stop	Detector	Meas. Time	IF Bandw.		
Frequency	Frequency					
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW	



### MEASUREMENT RESULT: "BCT09FP-485V2\_red"

6/3/2009 22:21

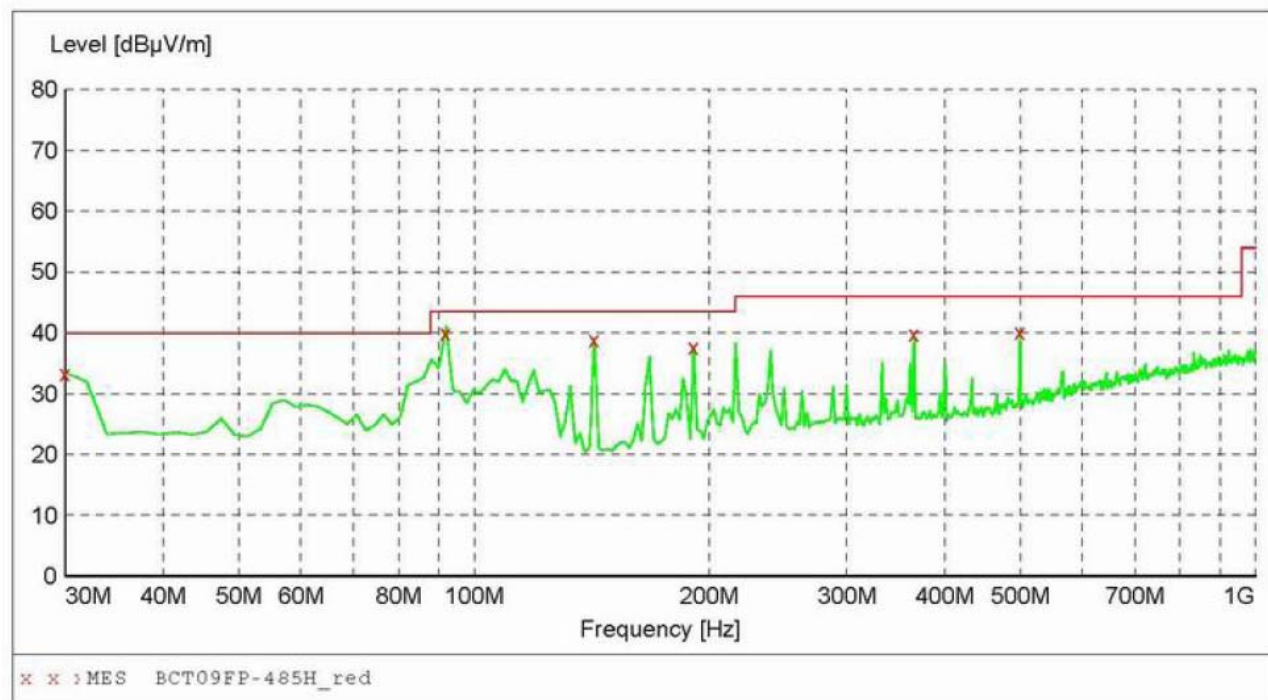
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
33.880000	36.50	15.4	40.0	3.5	QP	100.0	0.00	VERTICAL
68.800000	32.10	13.7	40.0	7.9	QP	100.0	0.00	VERTICAL
107.600000	39.90	17.8	43.5	3.6	QP	100.0	0.00	VERTICAL
132.820000	34.80	14.3	43.5	8.7	QP	100.0	0.00	VERTICAL
165.800000	37.40	14.9	43.5	6.1	QP	100.0	0.00	VERTICAL
889.420000	36.70	29.1	46.0	9.3	QP	100.0	0.00	VERTICAL

## RADIATED EMISSION TEST DATA OF CONNECT TO PC

EUT: M/N:GPS-AV80R-ACE  
 Manufacturer: N/A  
 Operating Condition: CONNECT TO PC  
 Test Site: CHAMBER  
 Operator: CHEN  
 Test Specification: AC120V/60Hz  
 Comment: Polarisation:H  
 Start of Test: 6/3/2009 / 21:20:58

### **SWEEP TABLE: "test (30M-1G)"**

Short Description:		Field Strength				Transducer
Start	Stop	Detector	Meas. Time	IF Bandw.		
30.0 MHz	1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW	



### **MEASUREMENT RESULT: "BCT09FP-485H\_red"**

6/3/2009 22:15

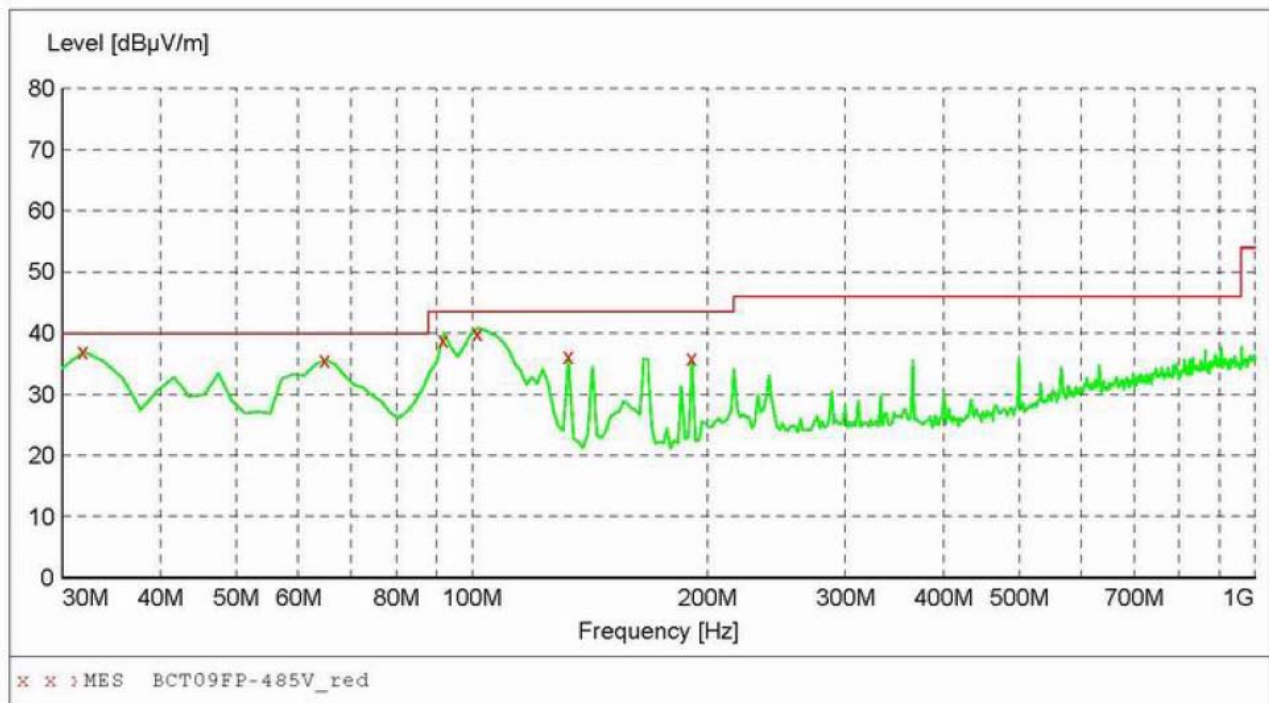
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	33.40	15.3	40.0	6.6	QP	300.0	0.00	HORIZONTAL
92.080000	40.00	17.4	43.5	3.5	QP	300.0	0.00	HORIZONTAL
142.520000	39.00	14.0	43.5	4.5	QP	300.0	0.00	HORIZONTAL
191.020000	37.70	16.8	43.5	5.8	QP	100.0	0.00	HORIZONTAL
365.620000	39.80	20.8	46.0	6.2	QP	100.0	0.00	HORIZONTAL
499.480000	40.20	22.7	46.0	5.8	QP	100.0	0.00	HORIZONTAL

## RADIATED EMISSION TEST DATA OF CONNECT TO PC

EUT: M/N:GPS-AV8OR-ACE  
 Manufacturer: N/A  
 Operating Condition: CONNECT TO PC  
 Test Site: CHAMBER  
 Operator: CHEN  
 Test Specification: AC120V/60Hz  
 Comment: Polarisation:V  
 Start of Test: 6/3/2009 / 21:24:36

### **SWEEP TABLE: "test (30M-1G)"**

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency 30.0 MHz	Frequency 1.0 GHz	MaxPeak	Coupled	100 kHz	VULB9163 NEW



### **MEASUREMENT RESULT: "BCT09FP-485V\_red"**

6/3/2009 22:17

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.940000	37.00	15.4	40.0	3.0	QP	100.0	0.00	VERTICAL
64.920000	35.60	14.4	40.0	4.4	QP	100.0	0.00	VERTICAL
92.080000	39.00	17.4	43.5	4.5	QP	100.0	0.00	VERTICAL
101.780000	40.00	18.2	43.5	3.5	QP	100.0	0.00	VERTICAL
132.820000	36.20	14.3	43.5	7.3	QP	100.0	0.00	VERTICAL
191.020000	35.90	16.8	43.5	7.6	QP	100.0	0.00	VERTICAL