. Section 15.247(a)(2): Bandwidth for Direct Sequence System.

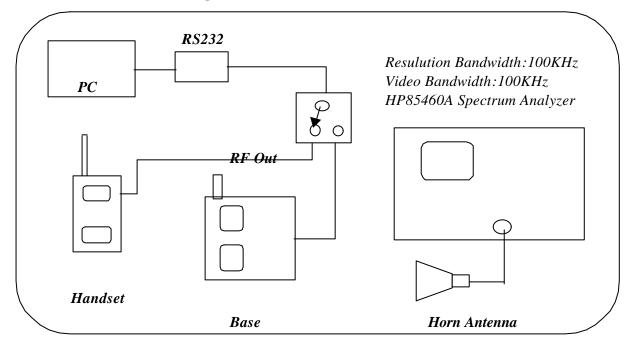
3.1 Test Condition & Setup

The transmitter bandwidth measurements were performed in an anechoic chamber. The EUT was placed on a wooded table, which is 0.8 meters height. The EUT was set to transmit continuously. Various channels were also investigated to find the maximum occupied bandwidth. The minimum 6 dB bandwidth shall be at least 500 KHz.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 KHz. Set the span>> RBW. The detector function was set to peak and hold mode to clearly observe the components.

Setting up procedure is written on Appendix A.

3.2 Test Instruments Configuration



P.S.A serial port from notebook computer to control the EUT at maximal power output and channel Number.

Fig 10. Test Configuration of bandwidth for direct sequence system

3.3 List of Test Instruments

Instrument Name	Model No.	Brand	Serial No.	Last time	Next time
EMI Receiver	8546A	ΗP	3520A00242	10/18/00	10/18/01
RF Filter Section	85460A	ΗP	3448A00217	10/18/00	10/18/01
Horn Antenna	3115	EMCO	9704 – 5178	08/15/00	08/15/01

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Test Repot ------ 18/72

3.4 Test Result of Bandwidth

Bandwidth of Channel 1

Bandwidth of Base : 1.63 MHz
Bandwidth of Handset : 1.60 MHz
The min. 6 dB BW at least : 500 KHz

Bandwidth of Channel 21

Bandwidth of Base : 1.63 MHz
Bandwidth of Handset : 1.58 MHz
The min. 6 dB BW at least : 500 KHz

Bandwidth of Channel 40

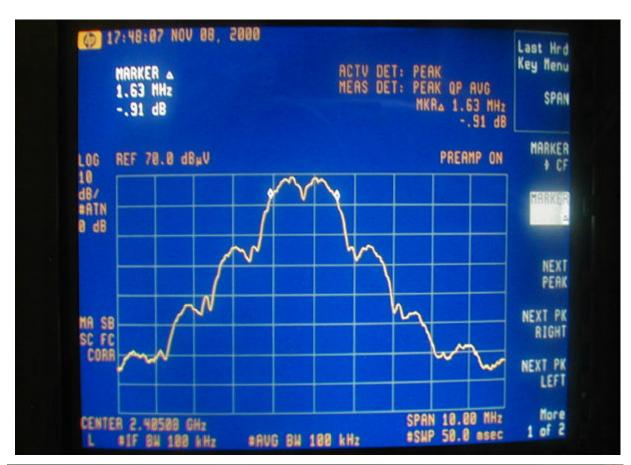
Bandwidth of Base : 1.60 MHz
Bandwidth of Handset : 1.60 MHz
The min. 6 dB BW at least : 500 KHz

Note:

- 1. The data in the above table are summarizing the following attachment spectrum analyzer hard copy.
- 2. The attachments follow page.

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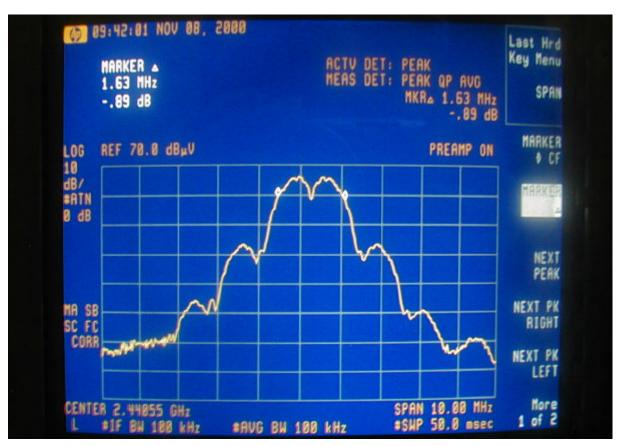
Test Repot ------ 19/72





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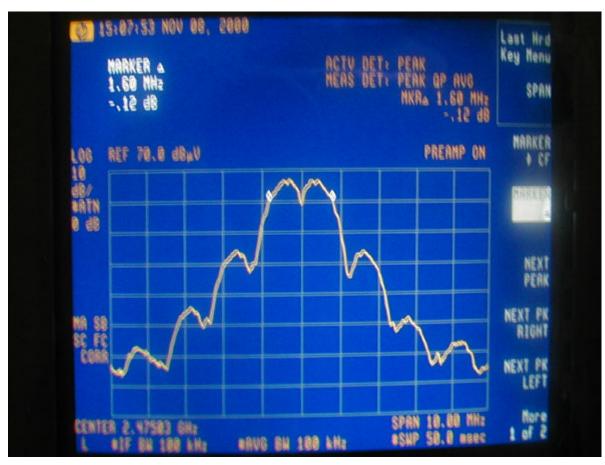
Test Repot ------ 20/72

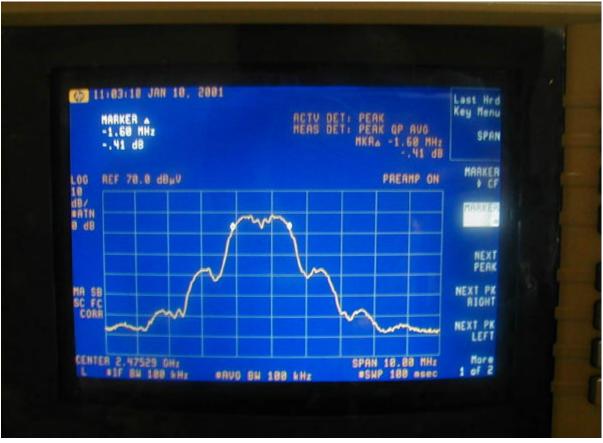




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Test Repot ------ 21/72





Report No.: S2515389

. Section 15.247(B): Power Output

4.1 Test Condition & Setup

The EUT was placed in a anechoic chamber and scanned at 3 meter distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration that produced the highest emissions was noted so it could be reproduced later during the final tests. This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT. Final radiation measurements were made on a three-meter, anechoic chamber. The EUT system was placed on a nonconductive turntable, which is 0.8 meters height, top surface 1.0 x 1.5 meter.

The spectrum was examined from 1GHz to 40GHz using a Hewlett Packard Spectrum Analyzer 8564E, EMCO whole range Horn antenna (Model No.: 3115) is used to measure frequency from 1GHz to 18GHz. The final test is used the spectrum HP 8564E. At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. The spectrum analyzer HP8564E used on this testing for frequency 1GHz to 18GHz. No post-detector video filters were used in the test. Set the RB= 3 MHz, VB = 3MHz and the span = 5 MHz. The analyzer was operated in the maximum hold mode.

There are two test condition apply in this test item, the test procedure description as the following:

(1) Base and handset station transmit only:

Using the RS-232 port of PC and Rockwell software to control the base, handset. Then making access to the mode of continuous transmission. Three channels were tested, one in the top (CH01), one in the middle (CH21) and the other in bottom (CH40).

With the transmitter operating from a fully charged battery and using the internal antenna, Radiates spurious emissions falling within the restricted bands of 15.209 were measured at operating frequencies corresponding to low, mid and high channels in the 2400-2483.5 MHz band.

The actual field intensity in decibels referenced to 1 microvolt per meter (dB μ V/m) is determined by algebraically adding the measured reading in dB μ V, the antenna factor (dB), and cable loss (dB) at the appropriate frequency.

Report No.: S2515389

Test Repot ------ 23/72

4.2 List of Test Instruments

Instrument Name	Model No.	Brand	Serial No.	Last time	Next time
Spectrum Analyzer	8564E	ΗP	US36433002	08/13/00	08/13/01
Microwave Preamplifier	83051A	ΗP	3232A00347	08/13/00	08/13/01
Horn Antenna	3115	EMCO	9704 - 5178	08/15/00	08/15/01

Report No.: S2515389

Test Repot ------ 24/72

4.3 Test Result of Fundamental Emissions

The peak values of fundamental emissions from the EUT at various antenna heights, antenna polarization, EUT orientation, etc. are recorded on the following.

FCC ID : AK8SPPA2470

Table 6 Open Field Fundamental Emissions

Channel	Frequency (GHz)	A.P. (H/V)	A.H. (M)	Table (degree)	Amplitude (dBmV/m	CF (dB)	Duty Cycle (dB)	Corrected Amplitude (dBmV/m) Excluded Duty Cycle	Corrected Amplitude (dBmV/m) Included Duty Cycle	E.I Included I m W	
Base 01	2.4048	Н	1.00	33	108.51	-8.67	-6.46	93.38	99.84	2.891	4.661
Dasc 01	2.4048	V	1.00	165	121.47	-8.67	-6.46	106.34	112.80	57.164	17.571
Base 21	2.4408	Н	2.43	189	107.90	-8.67	-6.46	92.77	99.23	2.513	4.001
Dasc 21	2.4408	V	1.00	224	119.26	-8.67	-6.46	104.13	110.59	34.365	15.361
Base 40	2.4750	Н	1.00	62	106.89	-8.67	-6.46	91.76	98.22	1.991	2.991
Dasc 40	2.4750	V	1.00	179	119.59	-8.67	-6.46	104.46	110.92	37.078	15.961
Handset	2.4048	Н	2.51	307	106.21	-8.67	-6.46	91.08	97.54	1.702	2.31
01	2.4048	V	1.00	338	114.57	-8.67	-6.46	99.44	105.90	11.668	10.67
Handset	2.4408	Н	3.97	95	106.37	-8.67	-6.46	91.24	97.70	1.766	2.47
21	2.4408	V	1.00	112	114.70	-8.67	-6.46	99.57	106.03	12.022	10.80
Handset	2.4750	Н	2.51	245	109.14	-8.67	-6.46	94.01	100.49	3.342	5.24
40	2.4750	V	1.00	219	114.88	-8.67	-6.46	99.75	106.21	12.531	10.98

Note:

- 1. A.P. means antenna polarization, horizontal and vertical.
- 2. A.H. means antenna height.
- 3. Table means turntable turning position.
- 4. Corrected Factor (C. F.) = Cable Loss + Antenna Factor Amplified Gain
 Corrected Amplitude (Included Duty Cycle)= Peak Amplitude + Corrected Factor
 Corrected Amplitude (Excluded Duty Cycle)= Peak Amplitude + Corrected Factor + Duty Cycle
- 5. Amplitude means the fundamental emission measured.
- 6. Conducted output power "P", $P=(Ed)^2/30G$
- 7. Since G=1. P=EIRP

E is the measured maximum field strength in V/m utilizing the maximum hold mode RBW (3MHz)

G is the numeric gain of the transmitting antenna over an isotropic radiator (1.00)

d is the distance in meters from which the field strength was measured (3M)

Example: the Max Radiation Emission of base $ch01 = 112.80 \text{ dB}\mu\text{V/m}$

$$10^{(112.80/20)} \, X \, 10^{-6} \! = \! 0.4365158 \, V$$

E.I.R.P. = $(0.4365158 \times 3)^2 / 30 = 57.164 \text{ mW} = 10 \times \log (57.164 \text{ mW} / 1 \text{ mW}) = 17.571 \text{ dBm}$

So, the Max Radiation Emission of handset ch40 = 106.21 dBμV/m, output power for 12.531mW.

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Test Repot	E.I.R.P. = $(0.046665 \text{ x } 3)^2 / 30 = 0.653312 \text{ mW} = 10 \text{ x log } (0.653312 \text{ mW} / 1 \text{ mW}) = -1.85 \text{ dBm}$									
	E.I.R.P. = $(0.046665 \times 3)^{-7}/30 = 0.653312 \text{ mW} = 10 \times \log(0.653312 \text{ mW} / 1 \text{ mW}) = -1.85 \text{ dBm}$									

Report No.: S2515389

. Section 15.247 (C)(2): Spurious Emissions (Radiated)

5.1 Test Condition & Setup

The EUT was placed in an anechoic chamber and scanned at 3 meter distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration which produced the highest emissions was noted so it could be reproduced later during the final tests. This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT.

Final radiation measurements were made on a three-meter, anechoic chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter.

The spectrum was examined from 30 MHz to 1000 MHz using an Hewlett Packard 85460A EMI Receiver, Schaffner whole range Bi-Log antenna (Model No.: CBL6141A) is used to measure frequency from 30 MHz to 1GHz. The final test is used the spectrum HP 85460A and spectrum was examined from 1 GHz to 18GHz using an Hewlett Packard 8564E Spectrum Analyzer, EMCO Horn Antenna (Model 3115) for 1 G ~ 18 GHz.

At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. There are two spectrum analyzers use on this testing, HP 85460A for frequency 30MHz to 1000MHz, and 8564E for frequency 1 GHz to 18 GHz. No post-detector video filters were used in the test. The spectrum analyzer's 6 dB bandwidth was set to 120 KHz (spectrum was examined from 30 MHz to 1000 MHz), the spectrum analyzer's 6 dB bandwidth was set to 1 MHz (spectrum was examined from 1 GHz to 18GHz) and the analyzer was operated in the maximum hold mode.

There are two test condition apply in this test item, the test procedure description as the following:

(1) Base and handset station transmit only:

Using the RS-232 port of PC and Rockwell software to control the base, handset. Then making access to the mode of continuous transmission. Three channels is tested, one in the top (CH01), one in the middle (CH21) and the other in bottom (CH40).

With the transmitter operating from a fully charged battery and using the internal antenna, radiates spurious emissions falling within the restricted bands of 15.209 were measured at operating frequencies corresponding to low, mid and high channels in the $2400 \sim 2483.5$ MHz band.

The actual field intensity in decibels referenced to 1 microvolt per meter ($dB\mu V/m$) is determined by algebraically adding the measured reading in $dB\mu V$, the antenna factor (dB), and cable loss (dB) at the appropriate frequency.

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Test Repot ----- 27/72

For frequency between 30MHz to 1000MHz

FIa $(dBuV/m) = FIr (dB\mu V) - Correction Factors$

FIa : Actual Field Intensity

FIr : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss – Amplifier Gain

For frequency between 1 GHz to 18 GHz

FIa $(dB\mu V/m) = FIr (dB\mu V) + Correction Factor + Duty Cycle$

FIa : Actual Field Intensity

FIr : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss - Amplifier Gain

The setting up procedure is recorded on Appendix A.

5.2 List of Test Instruments

Instrument Name	Model No	Brand	Serial No.	Last time	Next time
EMI Receiver	8546A	ΗP	3520A00242	10/18/00	10/18/01
RF Filter Section	85460A	ΗP	3448A00217	10/18/00	10/18/01
Switch/Control Unit	3488A	ΗP	N/A	11/22/00	11/22/01
(>30MHz)					
Auto Switch Box	ASB-01	TRC	9904-01	11/22/00	11/22/01
(> 30MHz)					
Spectrum Analyzer	8564E	ΗP	US36433002	08/13/00	08/13/01
Microwave Preamplifier	83051A	ΗP	3232A00347	08/13/00	08/13/01
Horn Antenna	3115	EMCO	9704 - 5178	08/15/00	08/15/01

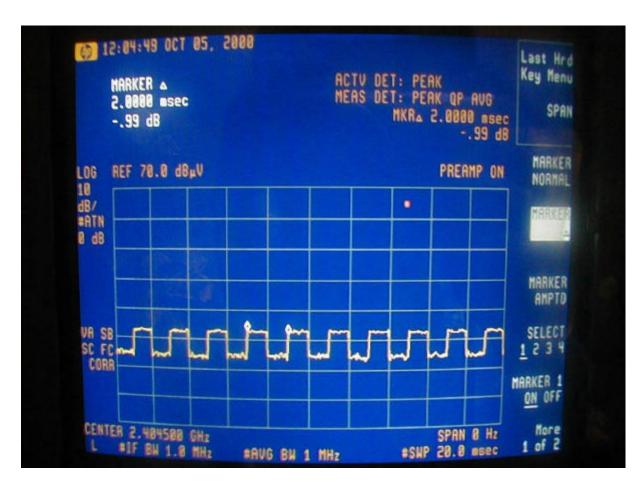
5.2.1 Duty Cycle Factor Measurement

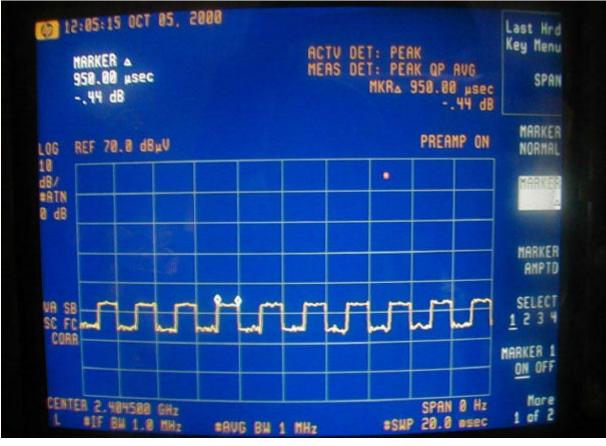
The duty cycle factor measurement is performed in a shield enclosure. The test condition and setup is as same as paragraph \cdot . Set the RB = 1MHz, VB=1MHz, and span = 0 MHz. Link the base and handset, then get the Time of duty and cycle as follow page.

The duty cycle factor = $20 \log (T_{duty}/T_{cycle}) = 20 \log (0.950/2.000) = -6.466$

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Test Repot ------ 28/72





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Test Repot ----- 31/72

5.4 Test Result of Second Harmonic

Set the spectrum RB= 3 MHz, VB = 3MHz and span = 5MHz. The correction factors of the second harmonic is the second harmonic must lower 20 dB than the fundamental.

Model No. : SPP-A2470

EUT : Cordless Telephone with Answering System

Table 7 Second Harmonic Attendation

Channel	Fundamental	Fundamental	2 nd Harmonic	2 nd Harmonic	Result	Limit	Margin
	(MHz)	(dBmV/m)	(GHz)	(dBmV/m)	(F/H dB)	(dB)	(dB)
B/S CH 01	2.4048	112.80	4.807	52.79	60.01	20.00	40.01
B/S CH 10	2.4408	110.59	4.883	52.60	57.99	20.00	37.99
B/S CH 20	2.4750	110.92	4.948	51.33	59.59	20.00	39.59
H/S CH 01	2.4048	105.90	4.807	47.16	58.74	20.00	38.74
H/S CH 10	2.4408	106.03	4.883	47.16	58.87	20.00	38.87
H/S CH 20	2.4750	106.21	4.948	45.66	60.55	20.00	40.55

Note:

- 1. The 2nd Harmonic is comply with 15.209.
- 2. Result = Fundamental (Peak) 2^{nd} Harmonic(Peak) must over 20 dB and comply with 15.209.

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Test Repot ------ 44/72

Table 20 Open Field Radiated Emissions For 30MHz 1GHz [Channel 1, Handset Horizontal]

	Radiat Emissi			Correction Factors	Corrected Amplitude	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV/m)	Ant. H. (m)	Table	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
144.345	10.21	2.99	75	-14.74	24.95	43.50	-18.55
182.843	14.26	2.55	135	-12.65	26.91	43.50	-16.59
202.095	16.13	2.51	95	-13.55	29.68	43.50	-13.82
211.910	16.32	1.00	85	-14.26	30.58	43.50	-12.92
221.725	13.69	1.00	116	-15.55	29.24	46.00	-16.76

Note:

- 1. Margin = Corrected Amplitude Limit.
- 2. Peak Amplitude Correction Factors = Corrected Amplitude

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Test Repot ------ 45/72

Table 21 Open Field Radiated Emissions For 1GHz 18GHz [Channel 1, Handset Horizontal]

	Radiated Emission				Duty Cycle	Corrected Amplitude	FCC (
Frequency (GHz)	Amplitude (dBmV/m)	Ant. H. (m)	Table	(dB)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
7.220	36.61	1.00	274	9.72	-6.46	39.87	54.00	-14.13

Note:

- 1. Margin = Corrected Limit.
- 2. Peak Amplitude + Correction Factor + Duty Cycle = Corrected

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Test Repot ------ 46/72

Table 22 Open Field Radiated Emissions For 30MHz 1GHz [Channel 1, Handset Vertical]

	Radiat Emissi			Correction Factors	Corrected Amplitude	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV/m)	Ant. H. (m)	Table	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
154.153	11.06	2.54	265	-13.48	24.54	43.50	-18.96
163.590	11.67	1.00	118	-13.18	24.85	43.50	-18.65
202.472	12.66	2.51	126	-13.80	26.46	43.50	-17.04
211.910	10.46	1.00	78	-14.39	24.85	43.50	-18.65

Test Repot ------ 47/72

Table 23 Open Field Radiated Emissions For 1GHz 18GHz [Channel 1, Handset Vertical]

Radiated Emission			Correction Factors	Duty Cycle	Corrected Amplitude			
Frequency (GHz)	Amplitude (dBmV/m)	Ant. H. (m)	Table	(dB)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
7.220	39.27	1.00	324	9.72	-6.46	42.53	54.00	-11.47

Test Repot ------ 48/72

Table 24 Open Field Radiated Emissions For 30MHz 1GHz [Channel 21, Handset Horizontal]

	Radiat Emissi			Correction Factors	Corrected Amplitude	FCC Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV/m)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
182.243	13.98	2.54	58	-12.65	26.63	43.50	-16.87
192.657	13.22	2.51	245	-12.92	26.14	43.50	-17.36
202.472	15.35	2.55	95	-13.57	28.92	43.50	-14.58
211.910	15.70	1.00	119	-14.26	29.96	43.50	-13.54
221.725	13.20	2.50	124	-15.55	28.75	46.00	-17.25
365.520	8.73	1.00	137	-18.37	27.10	46.00	-18.90

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Test Repot ------ 49/72

Table 25 Open Field Radiated Emissions For 1GHz 18GHz [Channel 21, Handset Horizontal]

Radiated Emission			Correction Factors	Duty Cycle	Corrected Amplitude	FCC (
Frequency (GHz)	Amplitude (dBmV/m)	Ant. H. (m)	Table	(dB)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
7.325	36.90	1.00	174	9.72	-6.46	40.16	54.00	-13.84

Test Repot ------ 50/72

Table 26 Open Field Radiated Emissions For 30MHz 1GHz [Channel 21, Handset Vertical]

Radiated Emission			Correction Factors	Corrected Amplitude	FCC Cl		
Frequency (MHz)	Amplitude (dBmV/m)	Ant. H. (m)	Table	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
144.345	8.10	2.53	74	-14.09	22.19	43.50	-21.31
163.590	9.78	2.54	154	-13.18	22.96	43.50	-20.54
182.843	10.77	1.00	195	-12.16	22.93	43.50	-20.57
202.095	10.25	2.51	235	-13.77	24.02	43.50	-19.48

Report No.: S2515389

 $Test\ Repot \ ----- 51/72$

Table 27 Open Field Radiated Emissions For 1GHz 18GHz [Channel 21, Handset Vertical]

Radiated Emission			Correction Factors	Duty Cycle	Corrected Amplitude	FCC (
Frequency (GHz)	Amplitude (dBmV/m)	Ant. H. (m)	Table	(dB)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
7.325	31.27	1.00	257	9.72	-6.46	34.53	54.00	-19.47

Test Repot ------ 52/72

Table 28 Open Field Radiated Emissions For 30MHz 1GHz [Channel 40, Handset Horizontal]

Radiated Emission			Correction Factors	Corrected Amplitude	FCC Cl		
Frequency (MHz)	Amplitude (dBmV/m)	Ant. H. (m)	Table	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
182.843	12.56	2.51	241	-12.65	25.21	43.50	-18.29
211.910	13.99	2.49	302	-14.26	28.25	43.50	-15.25
221.347	12.17	2.46	97	-15.51	27.68	46.00	-18.32
231.162	10.59	2.51	126	-14.95	25.54	46.00	-20.46
240.997	10.86	1.00	178	-15.14	26.00	46.00	-20.00
326.520	9.17	1.00	199	-17.24	26.41	46.00	-19.59

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Test Repot ------ 53/72

Table 29 Open Field Radiated Emissions For 1GHz 18GHz [Channel 40, Handset Horizontal]

Radiated Emission			Correction Factors	Duty Cycle	Corrected Amplitude	FCC (
Frequency (GHz)	Amplitude (dBmV/m)	Ant. H. (m)	Table	(dB)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
7.432	39.77	1.00	195	9.72	-6.46	43.03	54.00	-10.97

Test Repot ------ 54/72

Table 30 Open Field Radiated Emissions For 30MHz 1GHz [Channel 40, Handset Vertical]

Radiated Emission			Correction Factors	Corrected Amplitude	FCC Cl		
Frequency (MHz)	Amplitude (dBmV/m)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
125.287	7.75	2.52	125	-13.95	21.70	43.50	-21.80
144.345	8.80	2.54	248	-14.09	22.89	43.50	-20.61
154.153	8.30	1.00	167	-13.48	21.78	43.50	-21.72
163.590	9.11	1.00	25	-13.18	22.29	43.50	-21.21
182.843	9.59	1.00	98	-12.16	21.75	43.50	-21.75
202.095	9.79	2.54	127	-13.77	23.56	43.50	-19.94

Report No.: S2515389

 $Test\ Repot\ ------ 55/72$

Table 31 Open Field Radiated Emissions For 1GHz 18GHz [Channel 40, Handset Vertical]

Radiated Emission			Correction Factors	Duty Cycle	Corrected Amplitude	FCC (
Frequency (GHz)	Amplitude (dBmV/m)	Ant. H. (m)	Table	(dB)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
7.432	40.94	1.00	324	9.72	-6.46	44.20	54.00	-9.80

. Section 15.247(d): Power Spectral Density

6.1 Test Condition & Setup

The tests below are running with the DCT transmitter set at high power in TDD mode .A serial port from a computer to the DCT. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. A log antenna was connected with the spectrum analyzer.

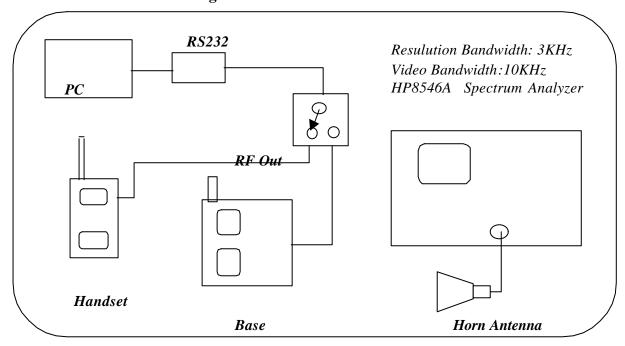
The EUT is tested in open field site. Put EUT on the middle of a wooden table. Set spectrum analyzer RBW = 3 KHz, VBW > RBW (e.g. VBW = 10 KHz), Span = 300 kHz. Turn around the table to find maximum emission. Then sweep time = 100 sec. Peak the maximum emission again. The peak level measured must be no greater than + 8 dBm.

The setting up procedure is recorded on Appendix A.

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Test Repot ----- 57/72

6.2 Test Instruments Configuration



P.S.A serial port from notebook computer to control the EUT at maximal power output and channel Number.

Fig 12. Test Configuration of power spectral density

6.3 List of Test Instruments

Instrument Name	Model No.	Brand	Serial No.	Last time	Next time
EMI Receiver	8546A	ΗP	3520A00242	10/18/00	10/18/01
RF Filter Section	85460A	ΗP	3448A00217	10/18/00	10/18/01
Horn Antenna	3115	EMCO	9704 - 5178	08/15/00	08/15/01

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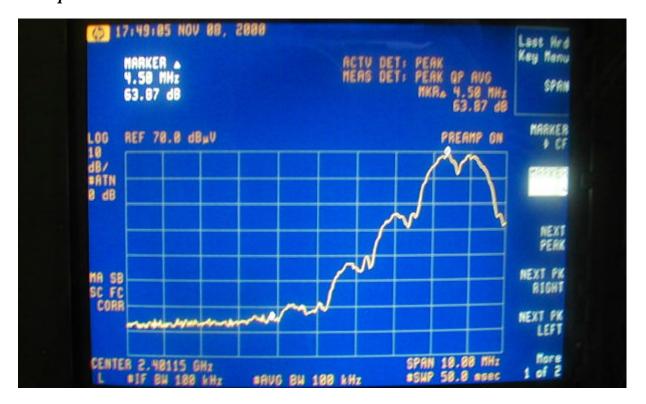
6.4 Required of Carrier frequency

If any 100 kHz bandwidth outside these frequency bands, the radio frequency power that is produced by the modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either at least 20 dB below that in any 100 kHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified id § 15.209(a), whichever results in the lesser attenuation.

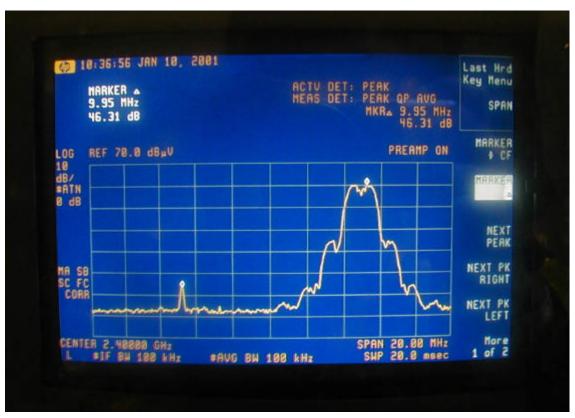
Test Condition & Setup: same as 3.1

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BASE CH01



Handset CH01

Peak 60 dBuV/m + correct factor 35.6 dB = 95.6 dBuV/m

95.6 - 46.31 = 49.25 dBuV/m < 53.9 dBuV/m (Class B Limit)

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Handset CH40
12.01 dBuV/m + correct factor 35.6 dB = 47.91 dBuV/m< 53.9 dBuV/m (Class B Limit)



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6.5 Test Result of Power spectral density.

The following table shows a summary of the highest power out of UT.

Model No. : SPP-A2470

EUT : Cordless Telephone with Answering System

Table 33. Power Spectral Density

Channel	Frequency (MHz)	Ppr (dBuV)	CF (dB)	Ppq (dBm)	Limit (dB)	Margin (dB)
B/S CH 01	2.4048	64.69	35.60	5.06	8.00	-2.94
B/S CH 21	2.4408	62.74	35.60	3.11	8.00	-4.89
B/S CH 40	2.4750	59.06	35.60	-0.57	8.00	-8.57
H/S CH 01	2.4048	56.87	35.60	-2.76	8.00	-10.76
H/S CH 21	2.4408	56.10	35.60	-3.53	8.00	-11.53
H/S CH 40	2.4750	56.21	35.60	-3.42	8.00	-11.42

Note:

1. The attachment follow by this page and there is no page number.

2. Ppr: spectrum read power density (using peak search mode), CF: correct factor, Ppq: actual peak power density in the spread spectrum band.

$$3. \text{Ppq} = \text{Ppr} + \text{CF}$$

4. Effective Radiation Power (E.R.P.) = $(E d)^2 / 30G$

E is the measured maximum field strength in V/m utilizing the maximum hold mode RBW (3KHz).

G is the numeric gain of the transmitting antenna over an isotropic radiator (1.00).

d is the distance in meters from which the field strength was measured (3M).

Example: the Max Radiation Emission of base $ch01 = 64.69 + (35.60) = 100.29 \text{ dB}\mu\text{V/m}$

$$10^{(100.29/20)} \text{ X } 10^{-6} = 0.103395 \text{ V}$$

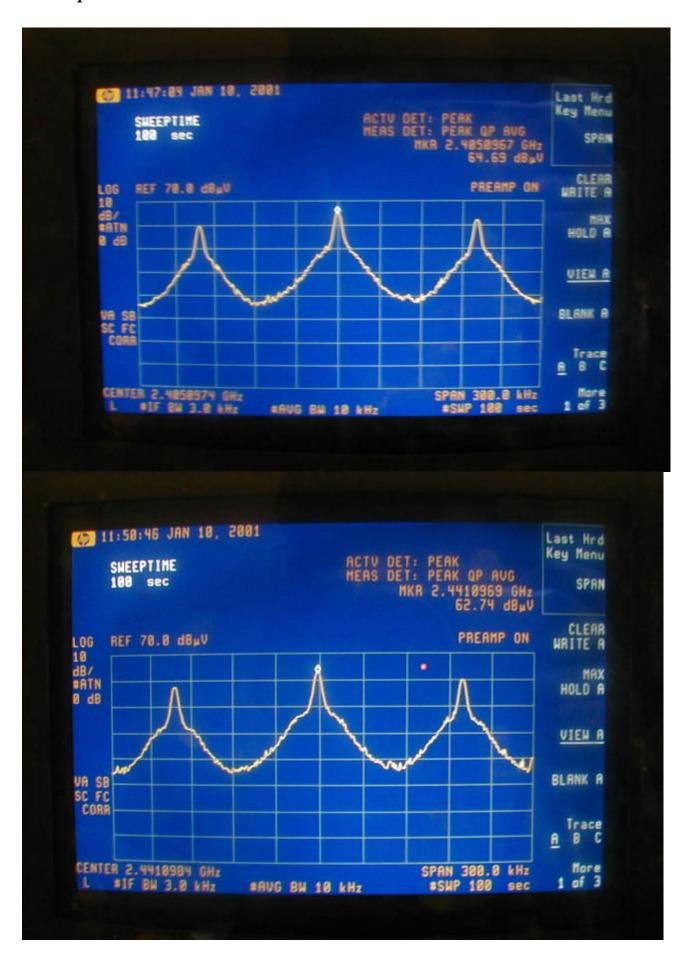
E.R.P. =
$$(0.103395 \text{ x 3})^2 / 30 = 3.207 \text{ mW}$$

 $= 10 \times \log (3.207 \text{ mW/1mW})$

= 5.06 dBm

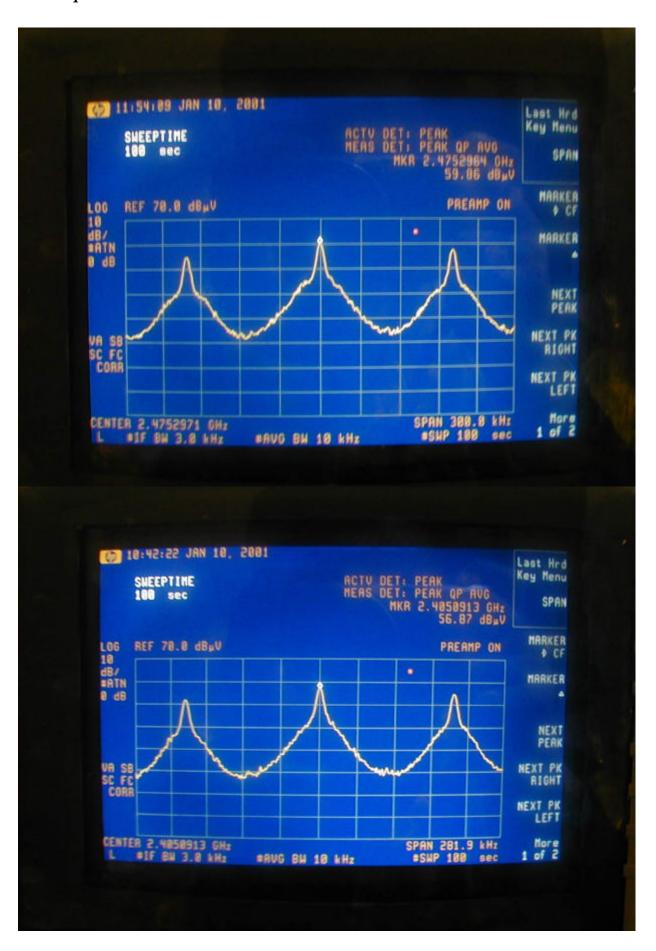
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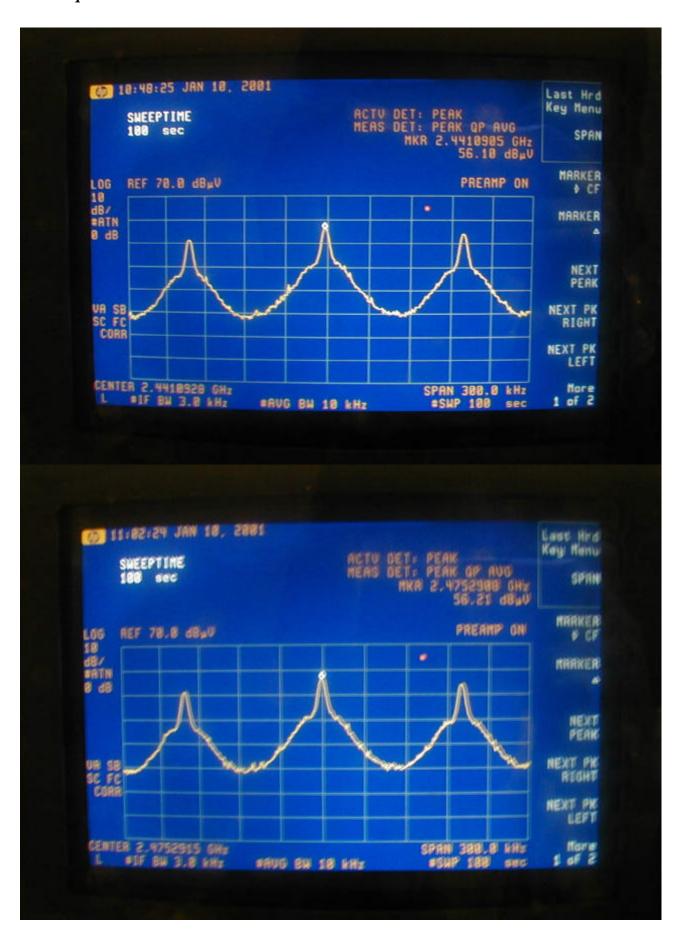
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