9 - DWELL TIME

9.1 Standard Applicable

According to §15.247 (a)(1)(i), the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 10 second period.

9.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
4. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
5. Repeat above procedures until all frequencies measured were complete.

9.3 Test Equipment

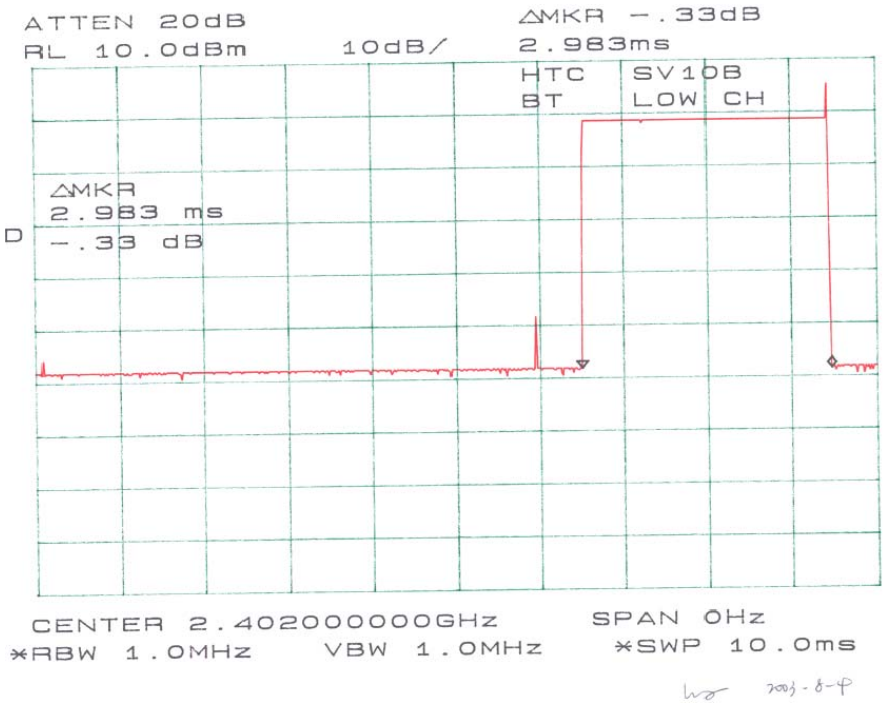
Manufacturer	Model No.	Description	Calibration Due Date
Agilent	8564E	Spectrum Analyzer	2004-08-01

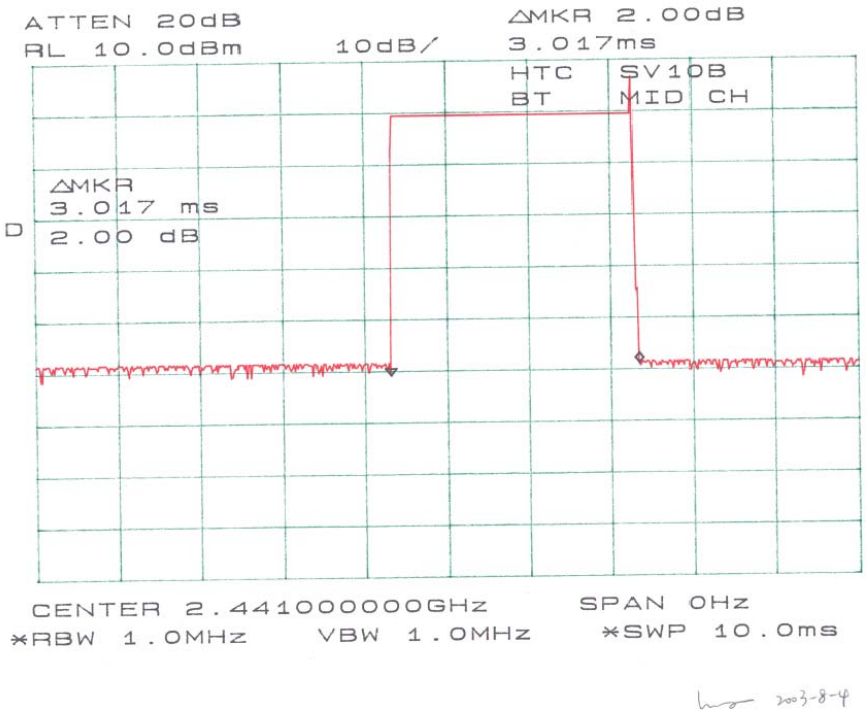
9.4 Measurement Results

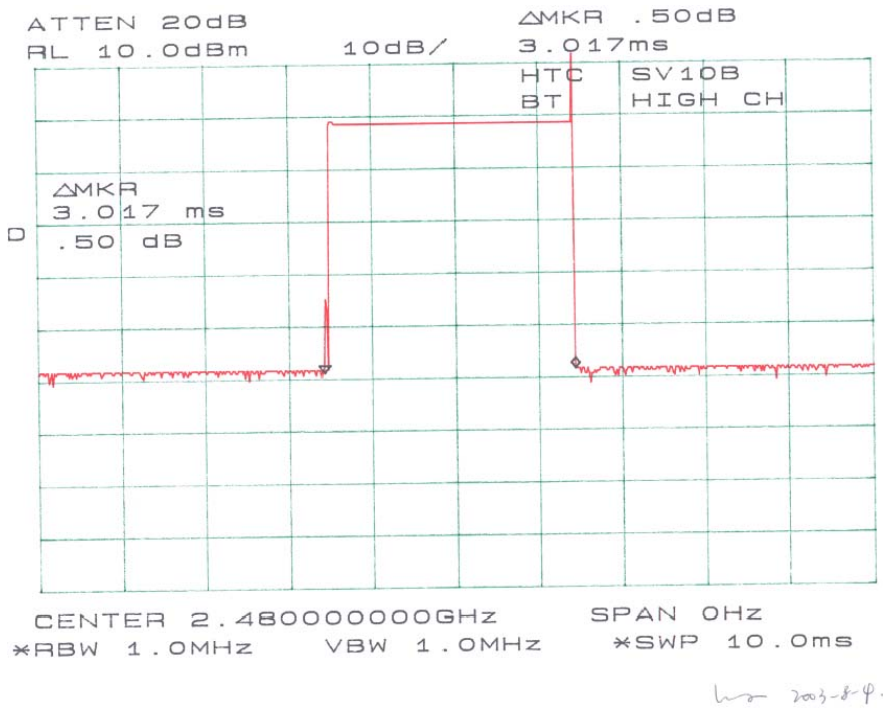
Low Channel: 7 x 2.983 (ms) x [(79x0.4) / 2 (s)] = 0.32 (s) < 0.4 (s)
Middle Channel: 7 x 3.017 (ms) x [(79x0.4) / 2 (s)] = 0.33 (s) < 0.4 (s)
High Channel: 7 x 3.017 (ms) x [(79x0.4) / 2 (s)] = 0.33 (s) < 0.4 (s)

9.5 Plots of Dwell Time

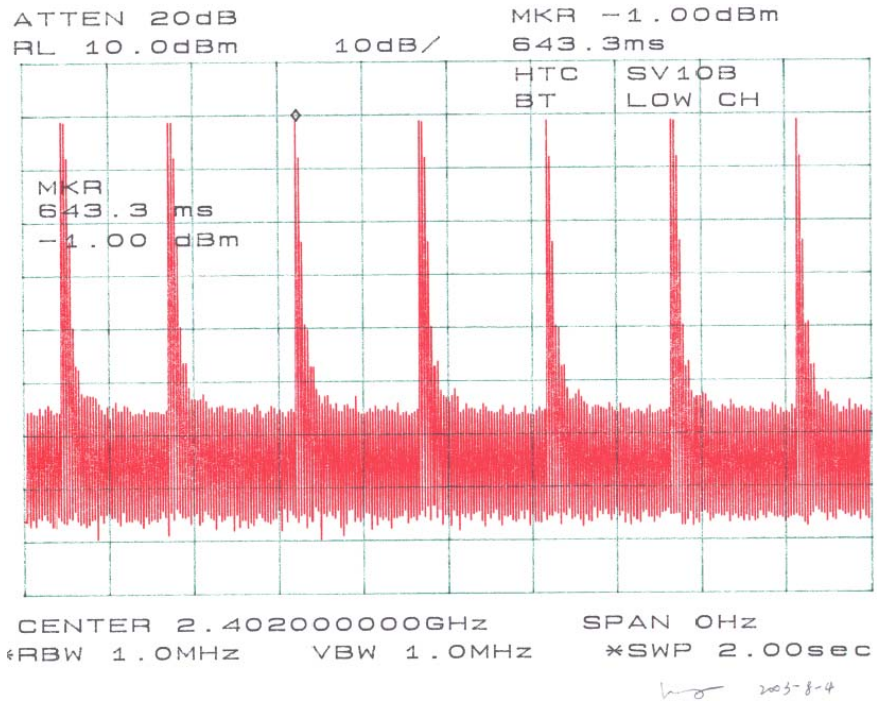
Please refer the following plots.


ATTEN 20dB
RL 10.0dBm
10dB/
ΔMKR -.33dB
2.983ms
HTC SV10B
BT LOW CH
ΔMKR
2.983 ms
D -.33 dB
CENTER 2.402000000GHz
SPAN 0Hz
*RBW 1.0MHz
VBW 1.0MHz
*SWP 10.0ms
2003-8-4

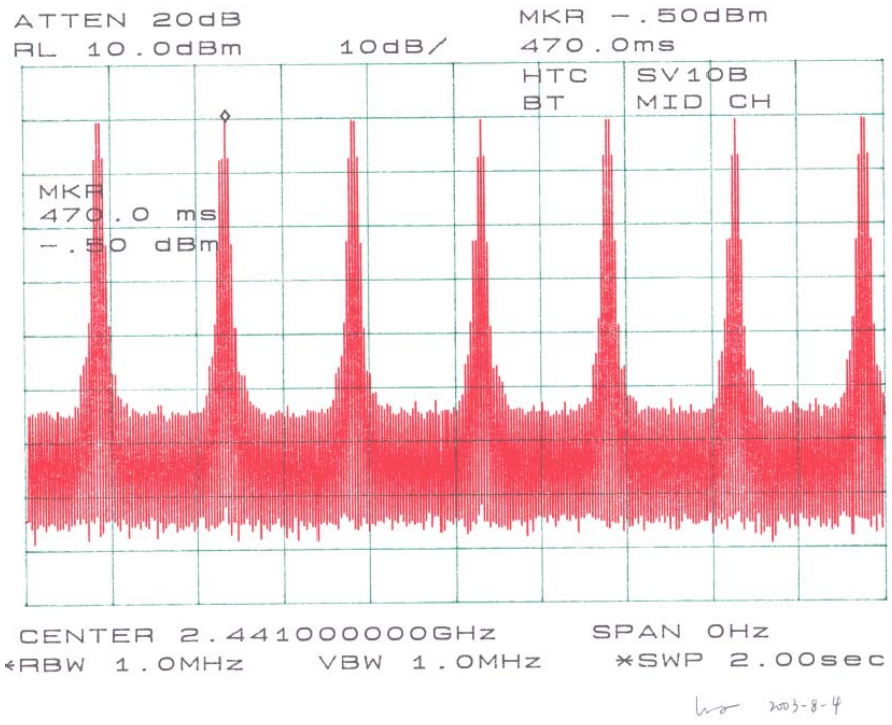

ATTEN 20dB
RL 10.0dBm
10dB/
ΔMKR 2.00dB
3.017ms
HTC SV10B
BT MID CH
ΔMKR
3.017 ms
D 2.00 dB
CENTER 2.441000000GHz
SPAN 0Hz
*RBW 1.0MHz
VBW 1.0MHz
*SWP 10.0ms
2003-8-4

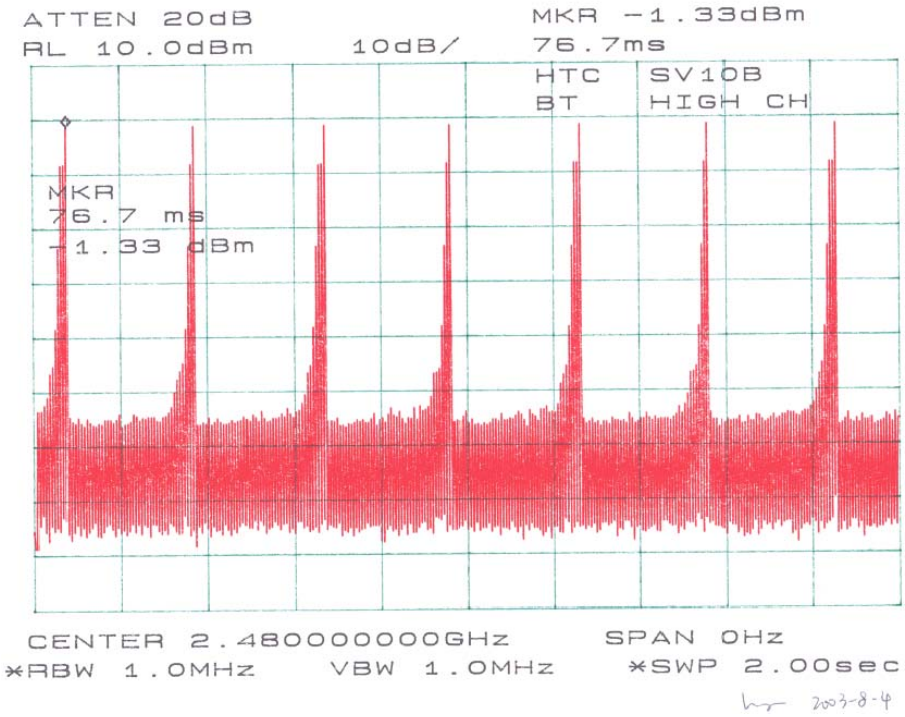


2003-8-4



2003-8-4


ATTEN 20dB
RL 10.0dBm
10dB/
MKR -.50dBm
470.0ms
HTC BT
SV10B MID CH
MKR
470.0 ms
-.50 dBm
CENTER 2.441000000GHz
SPAN 0Hz
*RBW 1.0MHz
VBW 1.0MHz
*SWP 2.00sec
2003-8-4


ATTEN 20dB
RL 10.0dBm
10dB/
MKR -1.33dBm
76.7ms
HTC BT
SV10B HIGH CH
MKR
76.7 ms
-1.33 dBm
CENTER 2.480000000GHz
SPAN 0Hz
*RBW 1.0MHz
VBW 1.0MHz
*SWP 2.00sec
2003-8-4

10 - SPURIOUS EMISSION AT ANTENNA PORT

10.1 Standard Applicable

According to §15.209 (f) and §15.33(a), in some cases the emissions from an intentional radiator must be measured to beyond the tenth harmonic of the highest fundamental frequency designed to be emitted by the intentional radiator because of the incorporation f a digital device. If measurements above the tenth harmonic are so required, the radiated emissions above the tenth harmonic shall comply with the general radiated emission limits applicable to the incorporated digital device, as shown in §15.109 and as based on the frequency of the emission being measured, or, except for emissions contained in the restricted frequency bands shown in §15.205, the limit on spurious emissions specified for the intentional radiator, whichever is the higher limit.

10.2 Measurement Procedure

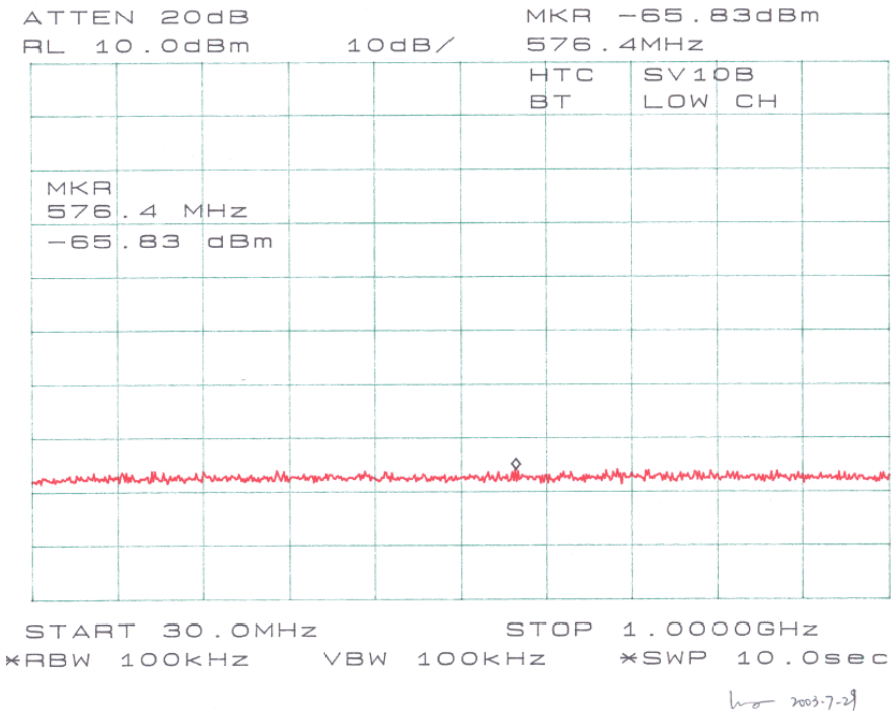
1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Position the EUT on a bench without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the SA on Max-Hold Mode, and then keep the EUT in transmitting mode. Record all the signals from each channel until each one has been recorded.
4. Set the SA on View mode and then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

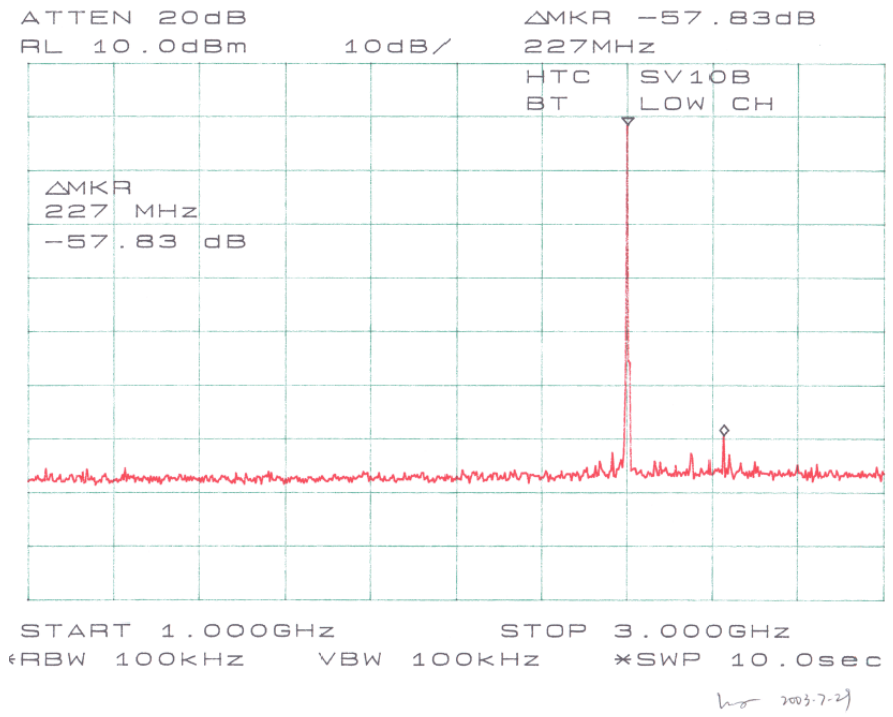
10.3 Test Equipment

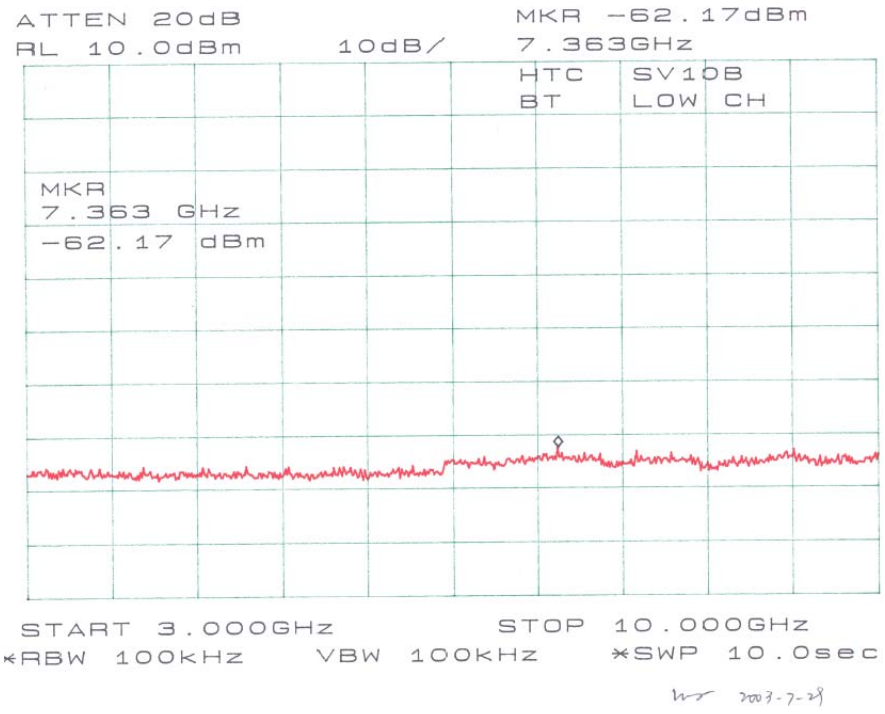
Manufacturer	Model No.	Description	Calibration Due Date
Agilent	8564E	Spectrum Analyzer	2004-08-01
Com-Power	AL-100	Log Periodic Antenna	2004-05-01
Com-Power	AB-100	Biconical Antenna	2004-05-01
Com-Power	AB-900	Log Periodic Antenna	2004-05-01
A.H. System	SAS-200/571	Horn Antenna	2004-05-31

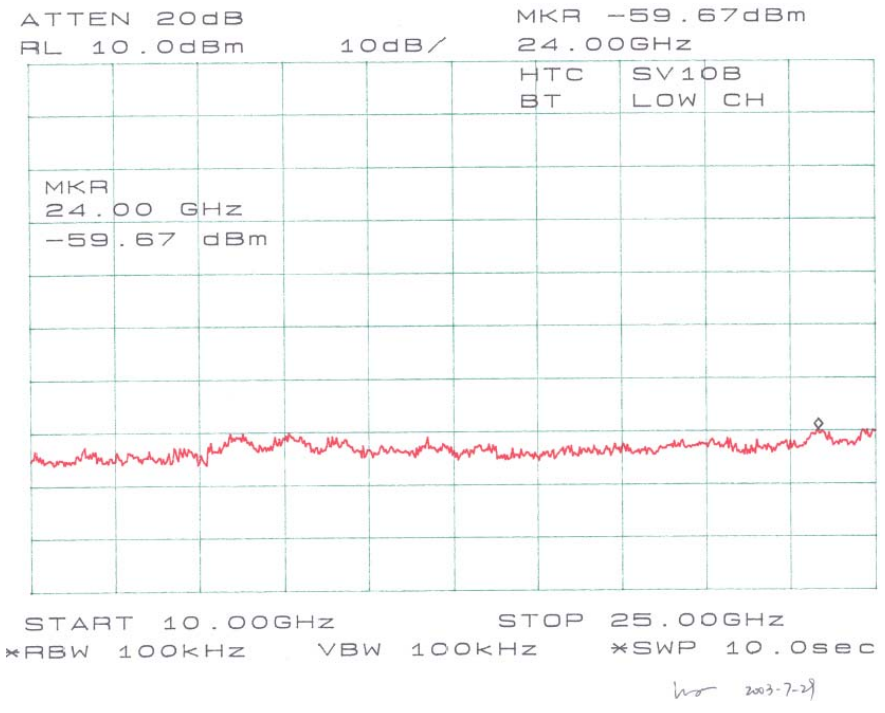
10.4 Measurement Results

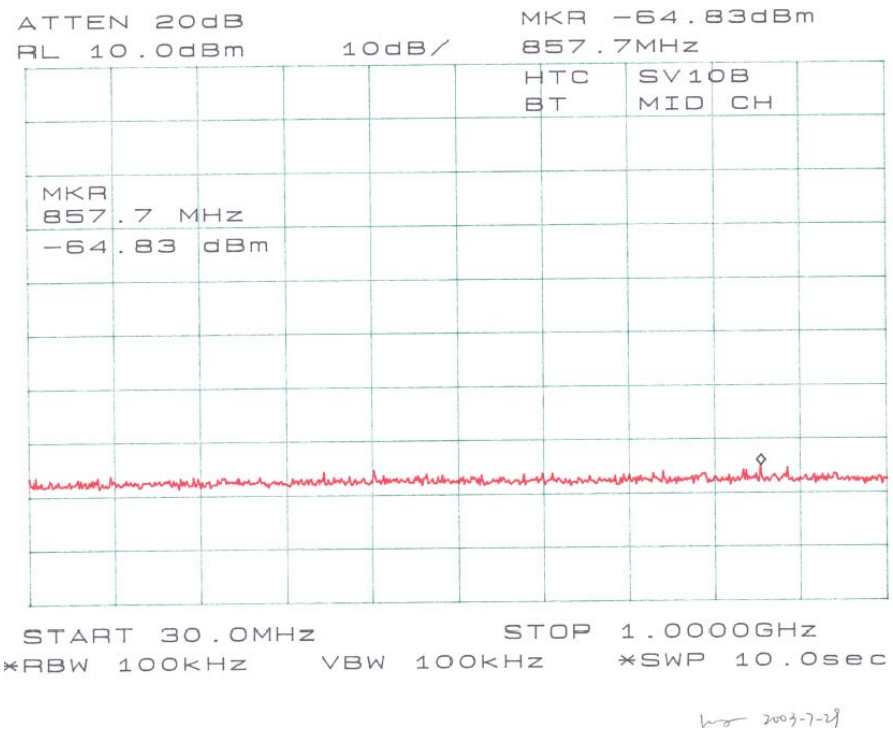
Please refer to the following plots.


ATTEN 20dB
RL 10.0dBm
10dB/
MKR -65.83dBm
576.4MHz
HTC SV10B
BT LOW CH
MKR
576.4 MHz
-65.83 dBm
START 30.0MHz
STOP 1.0000GHz
*RBW 100kHz
VBW 100kHz
*SWP 10.0sec
2003.7.29

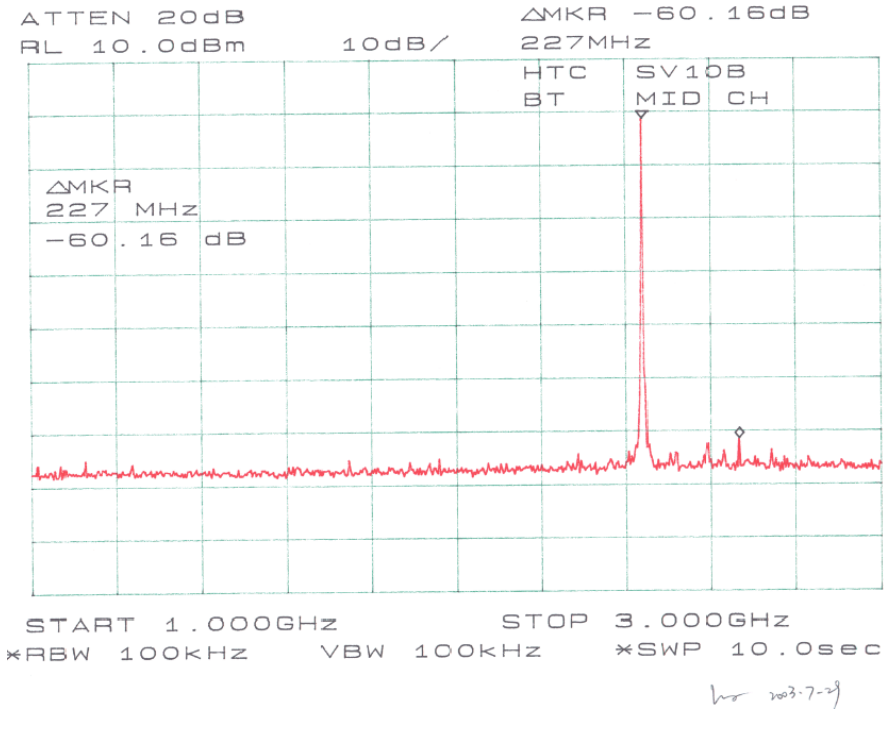

ATTEN 20dB
RL 10.0dBm
10dB/
ΔMKR -57.83dB
227MHz
HTC SV10B
BT LOW CH
ΔMKR
227 MHz
-57.83 dB
START 1.000GHz
STOP 3.000GHz
*RBW 100kHz
VBW 100kHz
*SWP 10.0sec
2003.7.29


ATTEN 20dB
RL 10.0dBm
10dB/
MKR -62.17dBm
7.363GHz
HTC SV10B
BT LOW CH
MKR
7.363 GHz
-62.17 dBm
START 3.000GHz
STOP 10.000GHz
*RBW 100kHz
VBW 100kHz
*SWP 10.0sec
2003-7-29

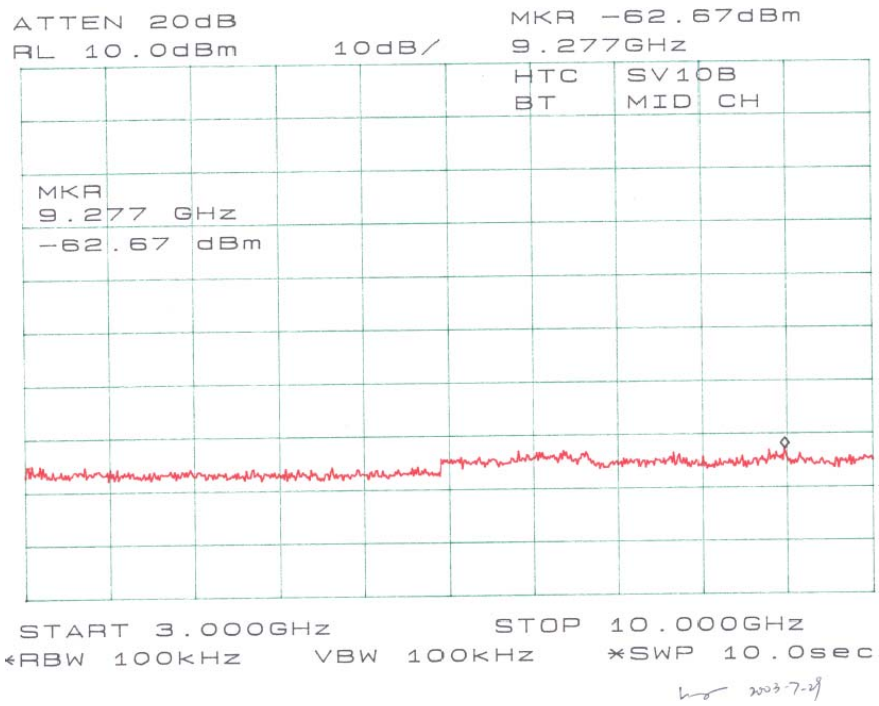

ATTEN 20dB
RL 10.0dBm
10dB/
MKR -59.67dBm
24.00GHz
HTC SV10B
BT LOW CH
MKR
24.00 GHz
-59.67 dBm
START 10.00GHz
STOP 25.00GHz
*RBW 100kHz
VBW 100kHz
*SWP 10.0sec
2003-7-29

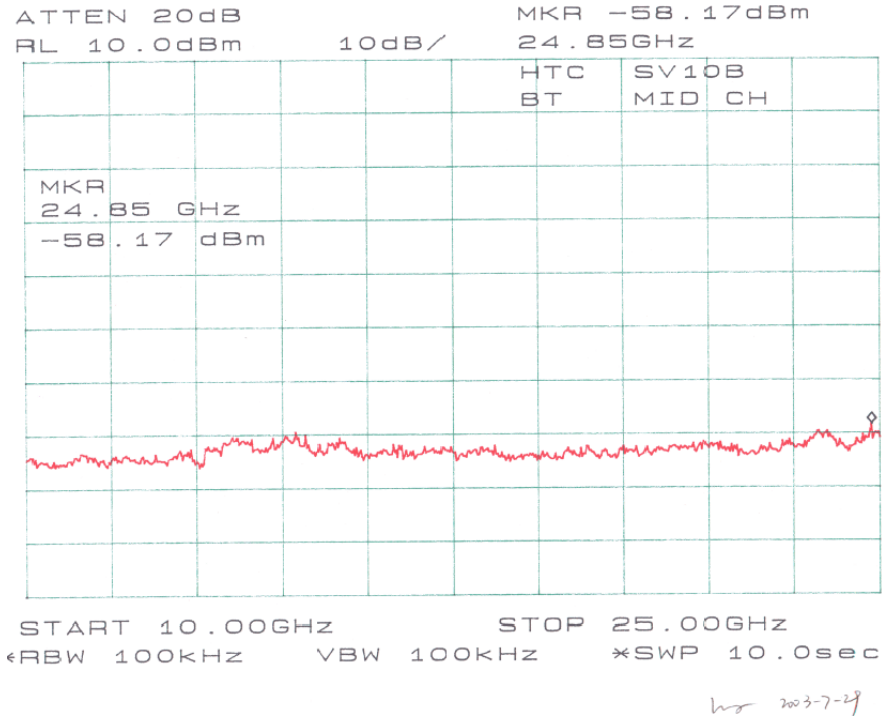


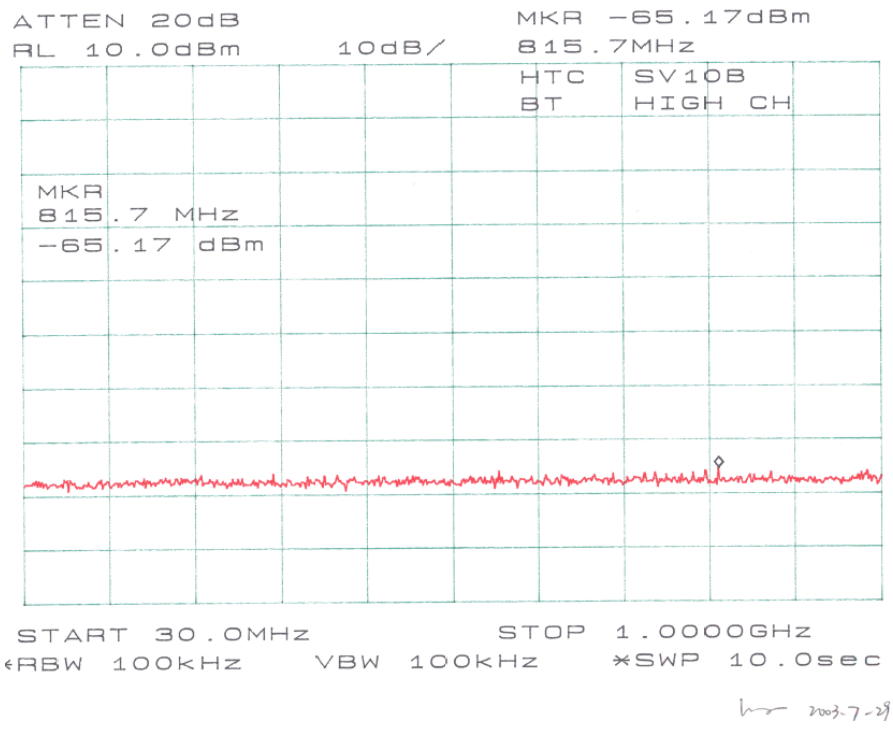
2003-7-29

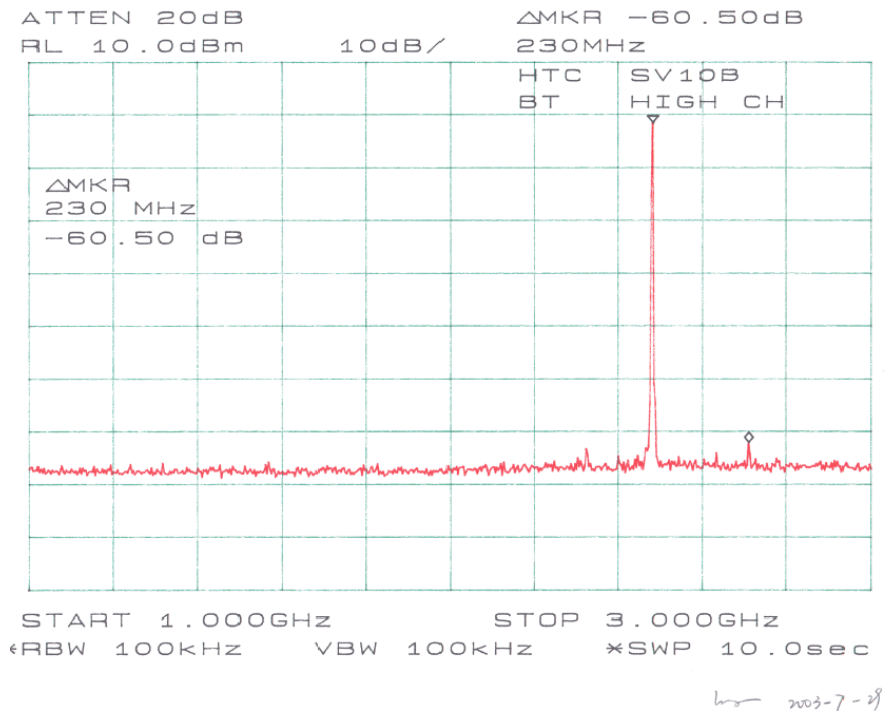


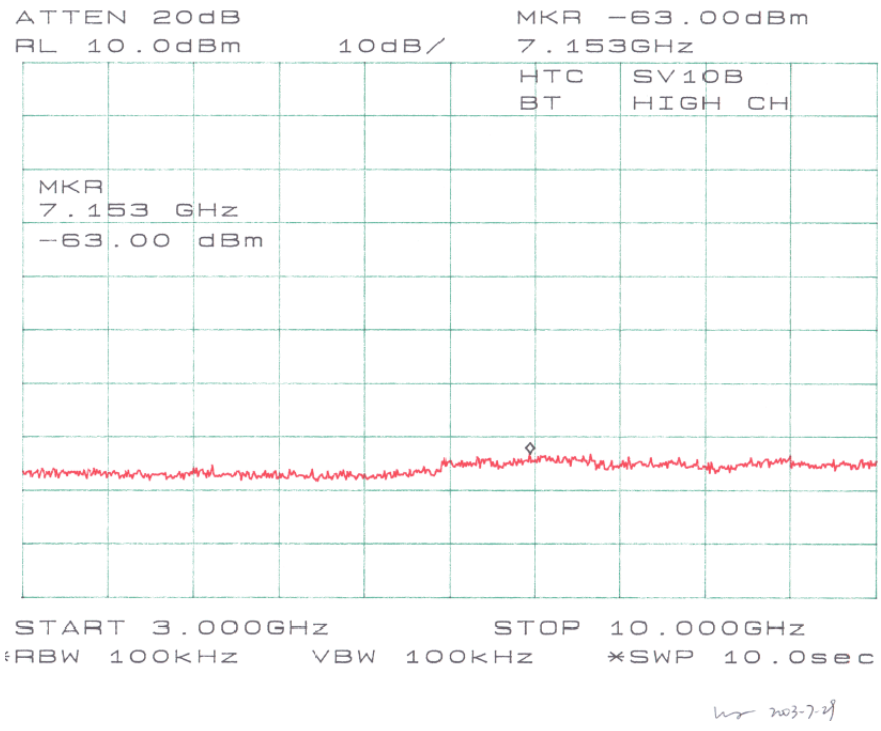
2003-7-29


ATTEN 20dB
RL 10.0dBm
10dB/
MKR -62.67dBm
9.277GHz
HTC SV10B
BT MID CH
MKR
9.277 GHz
-62.67 dBm
START 3.000GHz
STOP 10.000GHz
#RBW 100kHz
VBW 100kHz
*SWP 10.0sec
2003-7-29

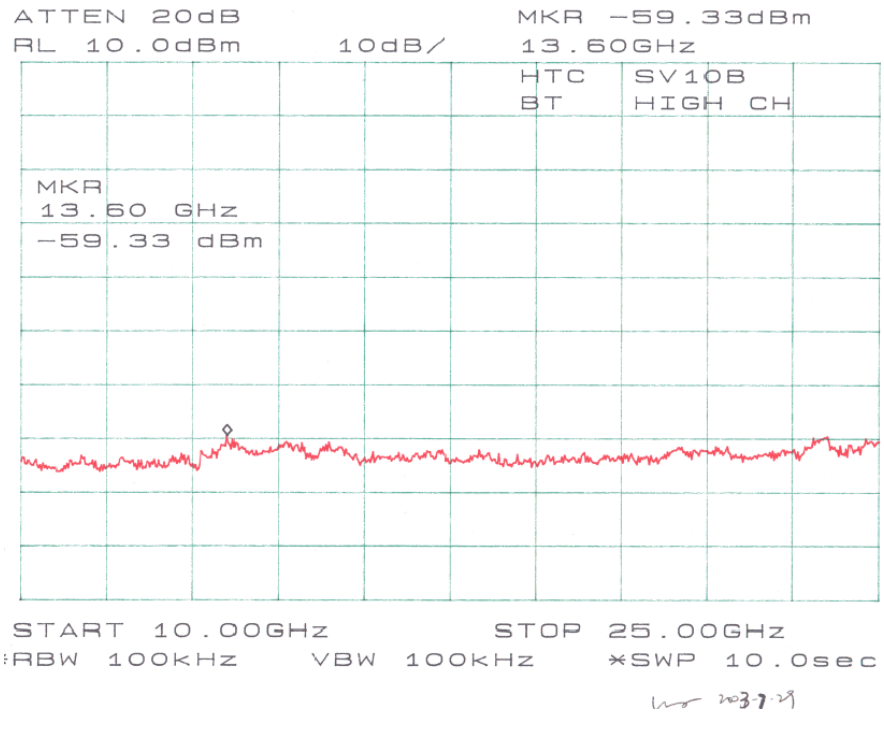

ATTEN 20dB
RL 10.0dBm
10dB/
MKR -58.17dBm
24.85GHz
HTC SV10B
BT MID CH
MKR
24.85 GHz
-58.17 dBm
START 10.00GHz
STOP 25.00GHz
#RBW 100kHz
VBW 100kHz
*SWP 10.0sec
2003-7-29


ATTEN 20dB
RL 10.0dBm
10dB/
MKR -65.17dBm
815.7MHz
HTC SV10B
BT HIGH CH
MKR
815.7 MHz
-65.17 dBm
START 30.0MHz
STOP 1.0000GHz
#RBW 100kHz
VBW 100kHz
*SWP 10.0sec
2003-7-28


ATTEN 20dB
RL 10.0dBm
10dB/
ΔMKR -60.50dB
230MHz
HTC SV10B
BT HIGH CH
ΔMKR
230 MHz
-60.50 dB
START 1.000GHz
STOP 3.000GHz
#RBW 100kHz
VBW 100kHz
*SWP 10.0sec
2003-7-28



2003-7-29



2003-7-29

11 - RADIATED EMISSION

11.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at BACL is $\pm$4.0 dB.

11.2 Test Setup

The radiated emission tests were performed in the open area 3-meter test site, using the setup in accordance with the ANSI C63.4-1992. The specification used was the FCC 15 Subpart C limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

The EUT was connected with 120Vac/60Hz power source.

11.3 Spectrum Analyzer Setup

According to FCC Rules, 47 CFR §15.33 (a) (1), the system was tested to 10000 MHz.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Start Frequency	30 MHz
Stop Frequency	10000 MHz
Sweep Speed	Auto
IF Bandwidth	1 MHz
Video Bandwidth	1 MHz
Quasi-Peak Adapter Bandwidth	120 kHz
Quasi-Peak Adapter Mode	Normal
Resolution Bandwidth	1MHz

11.4 Test Procedure

For the radiated emissions test, both the laptop and all peripheral power cords were connected to the AC floor outlet since the power supply used in the laptop did not provide an accessory power outlet.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations.

All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dBμV of specification limits), and are distinguished with a "**Qp**" in the data table.

11.5 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:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

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

Margin = Corr. Ampl. - Class B Limit

11.6 Test Equipment

Manufacturer	Model No.	Description	Calibration Due Date
Agilent	8564E	Spectrum Analyzer	2004-08-01

11.7 Summary of Test Results

According to the data in section 11.8, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.207, and 15.247, and had the worst margin of:

For Model: SV10B

-10.3 dB at **7206.00 MHz** in the **Vertical** polarization, Low Channel.

-9.6 dB at **7323.00 MHz** in the **Vertical** polarization, Middle Channel.

-9.8 dB at **7440.00 MHz** in the **Vertical** polarization, High Channel.

-12.2 dB at **110.76 MHz** in the **Horizontal** polarization, Unintentional Emission

For Model: SV10A

-11.4 dB at **7206.00 MHz** in the **Horizontal** polarization, Low Channel.

-11.3 dB at **7323.00 MHz** in the **Vertical** polarization, Middle Channel.

-11.5 dB at **7440.00 MHz** in the **Vertical** polarization, High Channel.

-13.0 dB at **576.12 MHz** in the **Vertical** polarization, Unintentional Emission

11.8 Radiated Emission Test Data

11.8.1 Test Data for model: SV10B

Indicated			Table	Antenna		Correction Factor			FCC 15 Subpart C		
Frequency MHz	Ampl. dBμV/m	Direction Degree	Height Meter	Polar H/V	Antenna dBμV/m	Cable Loss dBμV/m	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB	Mode
Low Channel											
2402.00	83.2	150	1.6	V	28.1	3.4	35.2	79.4			FUND/PEAK
2402.00	80.7	300	1.8	H	28.1	3.4	35.2	76.9			FUND/PEAK
2402.00	51.8	150	1.6	V	28.1	3.4	35.2	48.1			FUND/AVE
2402.00	50.2	300	1.8	H	28.1	3.4	35.2	46.5			FUND/AVE
7206.00	36.5	180	1.5	V	35.1	5.6	33.5	43.7	54	-10.3	AVE
7206.00	36.5	250	1.3	H	35.1	5.6	33.5	43.7	54	-10.3	AVE
4804.00	33.8	120	1.5	V	32.5	4.9	33.0	38.2	54	-15.8	AVE
4804.00	33.7	15	1.6	H	32.5	4.9	33.0	38.1	54	-15.9	AVE
7206.00	50.2	180	1.5	V	35.1	5.6	33.5	57.4	74	-16.6	PEAK
7206.00	49.5	250	1.3	H	35.1	5.6	33.5	56.7	74	-17.3	PEAK
4804.00	46.2	120	1.5	V	32.5	4.9	33.0	50.6	74	-23.4	PEAK
4804.00	45.7	15	1.6	H	32.5	4.9	33.0	50.1	74	-23.9	PEAK
Middle Channel											
2441.00	81.0	0	1.0	V	28.1	3.4	35.2	77.3			FUND/PEAK
2441.00	78.8	200	1.4	H	28.1	3.4	35.2	75.1			FUND/PEAK
2441.00	50.8	0	1.0	V	28.1	3.4	35.2	47.1			FUND/AVE
2441.00	49.3	200	1.4	H	28.1	3.4	35.2	45.6			FUND/AVE
7323.00	37.2	90	1.3	V	35.1	5.6	33.5	44.4	54	-9.6	AVE
7323.00	37.0	60	1.2	H	35.1	5.6	33.5	44.2	54	-9.8	AVE
4882.00	34.0	30	1.2	V	32.5	4.9	33.0	38.4	54	-15.6	AVE
4882.00	33.8	270	1.4	H	32.5	4.9	33.0	38.2	54	-15.8	AVE
7323.00	49.7	60	1.2	H	35.1	5.6	33.5	56.9	74	-17.1	PEAK
7323.00	49.5	90	1.3	V	35.1	5.6	33.5	56.7	74	-17.3	PEAK
4882.00	46.3	30	1.2	V	32.5	4.9	33.0	50.7	74	-23.3	PEAK
4882.00	46.0	270	1.4	H	32.5	4.9	33.0	50.4	74	-23.6	PEAK
High Channel											
2480.00	80.2	180	1.5	V	28.1	3.4	35.2	76.4			FUND/PEAK
2480.00	77.7	180	1.8	H	28.1	3.4	35.2	73.9			FUND/PEAK
2480.00	50.2	180	1.5	V	28.1	3.4	35.2	46.5			FUND/AVE
2480.00	49.0	180	1.8	H	28.1	3.4	35.2	45.3			FUND/AVE
7440.00	37.0	30	1.6	V	35.1	5.6	33.5	44.2	54	-9.8	AVE
7440.00	36.8	330	1.5	H	35.1	5.6	33.5	44.0	54	-10.0	AVE
4960.00	33.8	0	1.4	V	32.5	4.9	33.0	38.2	54	-15.8	AVE
4960.00	33.7	150	1.4	H	32.5	4.9	33.0	38.1	54	-15.9	AVE
7440.00	49.8	30	1.6	V	35.1	5.6	33.5	57.1	74	-16.9	PEAK
7440.00	49.7	330	1.5	H	35.1	5.6	33.5	56.9	74	-17.1	PEAK
4960.00	45.8	0	1.4	V	32.5	4.9	33.0	50.2	74	-23.8	PEAK
4960.00	45.5	150	1.4	H	32.5	4.9	33.0	49.9	74	-24.1	PEAK

Unintentional Emission

Indicated			Table	Antenna		Correction Factor			FCC 15 Subpart B	
Frequency	Ampl.	Direction	Height	Polar	Antenna	Cable Loss	Amp.	Corr. Ampl.	Limit	Margin
MHz	dBμV/m	Degree	Meter	H/V	dBμV/m	dBμV/m	dB	dBμV/m	dBμV/m	dB
110.76	43.5	150	1.5	H	11.3	1.5	25.0	31.3	43.5	-12.2
572.40	36.5	0	1.6	V	19.3	3.0	25.0	33.8	46	-12.2
228.00	42.3	180	1.5	V	11.8	2.2	25.0	31.3	46	-14.7
357.92	38.5	60	1.3	V	15.5	2.3	25.0	31.3	46	-14.7
328.50	38.2	330	1.2	V	15.5	2.3	25.0	31.0	46	-15.0
167.13	39.8	90	1.8	H	13.0	1.8	25.0	29.6	46	-16.4

11.8.2 Test Data for model: SV10A

Indicated			Table	Antenna		Correction Factor			FCC 15 Subpart C		
Frequency MHz	Ampl. dBμV/m	Direction Degree	Height Meter	Polar H/V	Antenna dBμV/m	Cable Loss dBμV/m	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB	Mode
Low Channel											
2402.00	82.8	0	1.6	V	28.1	3.4	35.2	79.1			FUND/PEAK
2402.00	78.0	30	1.5	H	28.1	3.4	35.2	74.3			FUND/PEAK
2402.00	51.0	0	1.6	V	28.1	3.4	35.2	47.3			FUND/AVE
2402.00	49.3	30	1.5	H	28.1	3.4	35.2	45.6			FUND/AVE
7206.00	35.3	45	1.4	V	35.1	5.6	33.5	42.6	54	-11.4	AVE
7206.00	35.2	220	1.5	H	35.1	5.6	33.5	42.4	54	-11.6	AVE
4804.00	31.8	60	1.2	V	32.5	4.9	33.0	36.2	54	-17.8	AVE
4804.00	31.5	180	1.0	H	32.5	4.9	33.0	35.9	54	-18.1	AVE
7206.00	46.5	220	1.5	H	35.1	5.6	33.5	53.7	74	-20.3	PEAK
7206.00	46.0	45	1.4	V	35.1	5.6	33.5	53.2	74	-20.8	PEAK
4804.00	44.0	60	1.2	V	32.5	4.9	33.0	48.4	74	-25.6	PEAK
4804.00	43.2	180	1.0	H	32.5	4.9	33.0	47.6	74	-26.4	PEAK
Middle Channel											
2441.00	81.5	180	1.4	V	28.1	3.4	35.2	77.8			FUND/PEAK
2441.00	79.3	30	1.4	H	28.1	3.4	35.2	75.6			FUND/PEAK
2441.00	50.5	180	1.4	V	28.1	3.4	35.2	46.8			FUND/AVE
2441.00	49.3	30	1.4	H	28.1	3.4	35.2	45.6			FUND/AVE
7323.00	35.5	180	1.5	V	35.1	5.6	33.5	42.7	54	-11.3	AVE
7323.00	35.3	330	1.4	H	35.1	5.6	33.5	42.5	54	-11.5	AVE
4882.00	31.7	150	1.6	V	32.5	4.9	33.0	36.1	54	-17.9	AVE
4882.00	31.6	0	1.3	H	32.5	4.9	33.0	36.0	54	-18.0	AVE
7323.00	46.8	180	1.5	V	35.1	5.6	33.5	54.0	74	-20.0	PEAK
7323.00	46.0	330	1.4	H	35.1	5.6	33.5	53.2	74	-20.8	PEAK
4882.00	44.5	150	1.6	V	32.5	4.9	33.0	48.9	74	-25.1	PEAK
4882.00	43.8	0	1.3	H	32.5	4.9	33.0	48.2	74	-25.8	PEAK
High Channel											
2480.00	81.5	330	1.4	V	28.1	3.4	35.2	77.8			FUND/PEAK
2480.00	76.0	0	1.2	H	28.1	3.4	35.2	72.3			FUND/PEAK
2480.00	49.8	330	1.4	V	28.1	3.4	35.2	46.1			FUND/AVE
2480.00	47.5	0	1.2	H	28.1	3.4	35.2	43.8			FUND/AVE
7440.00	35.3	0	1.4	V	35.1	5.6	33.5	42.5	54	-11.5	AVE
7440.00	35.1	45	1.0	H	35.1	5.6	33.5	42.3	54	-11.7	AVE
4960.00	31.5	30	1.5	V	32.5	4.9	33.0	35.9	54	-18.1	AVE
4960.00	31.2	180	1.6	H	32.5	4.9	33.0	35.6	54	-18.4	AVE
7440.00	46.3	0	1.4	V	35.1	5.6	33.5	53.5	74	-20.5	PEAK
7440.00	45.7	45	1.0	H	35.1	5.6	33.5	52.9	74	-21.1	PEAK
4960.00	44.2	30	1.5	V	32.5	4.9	33.0	48.6	74	-25.4	PEAK
4960.00	43.5	180	1.6	H	32.5	4.9	33.0	47.9	74	-26.1	PEAK

Unintentional Emission

Indicated			Table	Antenna		Correction Factor			FCC 15 Subpart B	
Frequency	Ampl.	Direction	Height	Polar	Antenna	Cable Loss	Amp.	Corr. Ampl.	Limit	Margin
MHz	dBμV/m	Degree	Meter	H/V	dBμV/m	dBμV/m	dB	dBμV/m	dBμV/m	dB
576.12	35.7	30	1.8	V	19.3	3.0	25.0	33.0	46	-13.0
110.50	41.8	150	1.5	H	11.3	1.5	25.0	29.7	43.5	-13.8
170.17	39.0	90	1.8	H	13.0	1.9	25.0	28.9	43.5	-14.6
328.07	37.8	180	1.3	V	15.5	2.3	25.0	30.7	46	-15.3
228.31	40.8	30	1.2	V	11.8	2.2	25.0	29.8	46	-16.2
357.69	35.0	0	1.5	V	15.5	2.3	25.0	27.8	46	-18.2

12 - CONDUCTED EMISSION

12.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at BACL is $\pm$2.4 dB.

12.2 Test Setup

The measurement was performed at shield room, using the same setup per ANSI C63.4 – 1992 measurement procedure. The specification used was FCC Class B limits.

External I/O cables were draped along the edge of the test table and bundle when necessary.

The EUT was connected with 120Vac/60Hz power source.

12.3 Spectrum Analyzer Setup

The spectrum analyzer was set with the following configurations during the conduction test:

Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth	10 kHz
Video Bandwidth	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode	Normal

12.4 Test Procedure

During the conducted emission test, the power cord of the host system was connected to the auxiliary outlet of the first LISN.

Maximizing procedure was performed on the six (6) highest emissions of each modes tested to ensure EUT is compliant with all installation combination.

All data was recorded in the peak detection mode. Quasi-peak readings were only performed when an emission was found to be marginal (within -4 dBμV of specification limits). Quasi-peak readings are distinguished with a "**Qp**".

12.5 Summary of Test Results

According to the data in section 12.6, the EUT complied with the FCC Conducted margin for a Class B device, with the *worst* margin reading of:

-0.6 dBμV at 0.520 MHz in the Neutral mode, with PHIHONG AC Adapter

-9.6 dBμV at 0.375 MHz in the Neutral mode, with DELTA AC Adapter

12.6 Conducted Emissions Test Data

PHIHONG AC Adapter:

LINE CONDUCTED EMISSIONS				FCC CLASS B	
Frequency MHz	Amplitude dBμV	Detector Qp/Ave/Peak	Phase Line/Neutral	Limit dBμV	Margin dB
0.520	45.4	AVG	Neutral	46	-0.6
0.520	51.4	QP	Neutral	56	-4.6
2.200	36.2	AVG	Neutral	46	-9.8
0.555	35.6	AVG	Line	46	-10.4
0.905	35.1	AVG	Neutral	46	-10.9
2.200	45.0	QP	Neutral	56	-11.0
0.905	44.4	QP	Neutral	56	-11.6
0.555	40.5	QP	Line	56	-15.5
1.040	19.0	AVG	Line	46	-27.0
1.640	17.5	AVG	Line	46	-28.5
1.040	26.1	QP	Line	56	-29.9
1.640	25.5	QP	Line	56	-30.5

DELTA AC Adapter:

LINE CONDUCTED EMISSIONS				FCC CLASS B	
Frequency MHz	Amplitude dBμV	Detector Qp/Ave/Peak	Phase Line/Neutral	Limit dBμV	Margin dB
0.375	36.4	AVG	Neutral	46	-9.6
0.450	38.3	AVG	Line	48	-9.7
0.185	42.2	AVG	Neutral	52	-9.8
0.195	41.1	AVG	Line	54	-12.9
0.375	42.1	QP	Neutral	56	-13.9
0.450	44.0	QP	Line	58	-14.0
0.945	39.0	QP	Neutral	56	-17.0
0.185	44.9	QP	Neutral	62	-17.1
1.600	28.9	AVG	Line	46	-17.1
0.195	45.0	QP	Line	64	-19.0
0.945	26.9	AVG	Neutral	46	-19.1
1.600	36.1	QP	Line	56	-19.9

12.7 Plot of Conducted Emissions Test Data

Plot(s) of Conducted Emissions Test Data is presented in the following page as reference.

Plots for PHIHONG AC Adapter

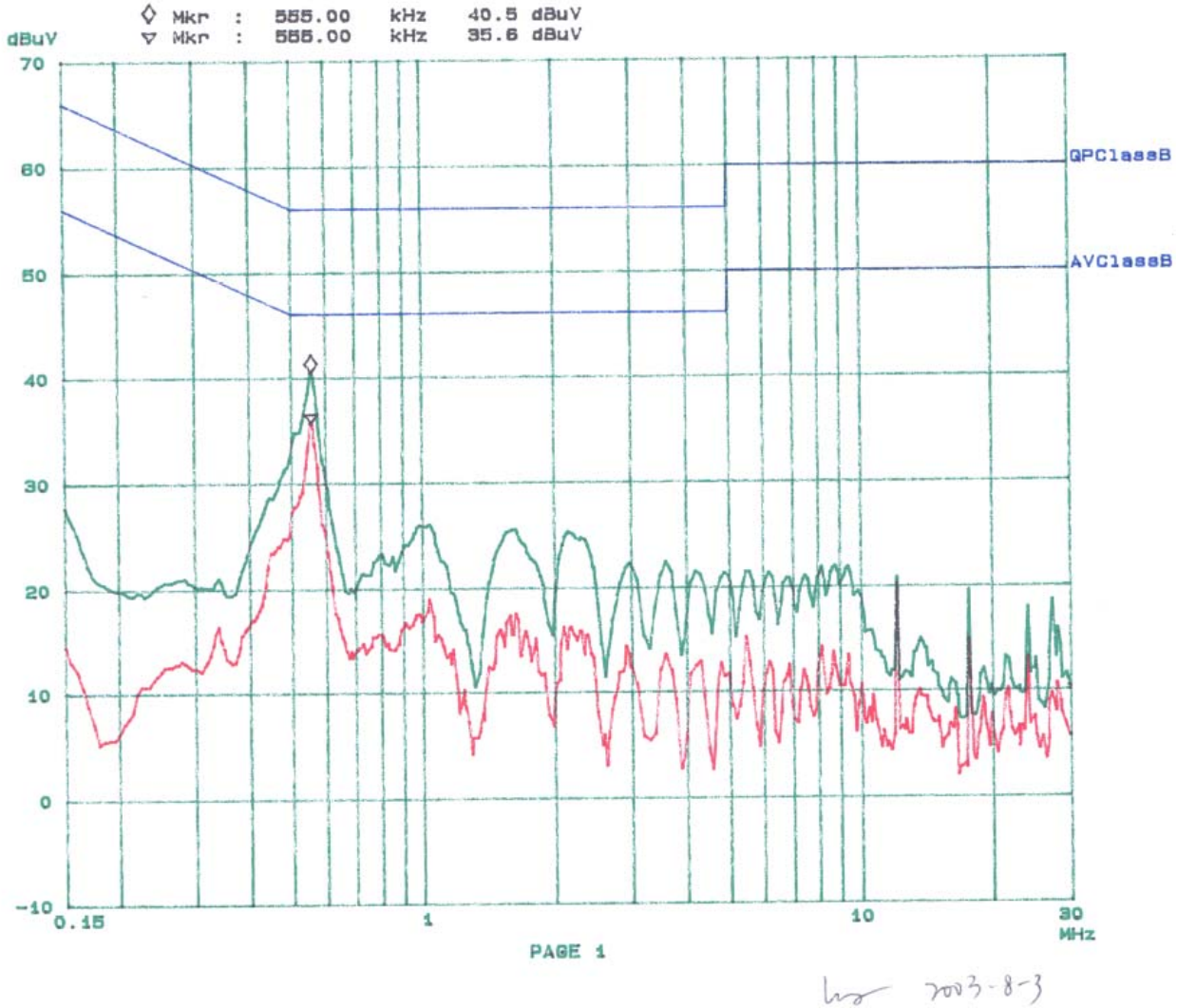
Bay Area Compliance Laboratory Corp 04. Aug 03 10: 47
Class B

EUT: SV10B
Manuf: HTC
Op Cond: Normal
Operator: ling
Comment: L (PHIHONG)

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	1M	5k	9k	QP+AV	20ms	10dBLN	OFF
1M	3M	10k	9k	QP+AV	1ms	10dBLN	OFF
3M	30M	100k	9k	QP+AV	1ms	10dBLN	OFF

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB



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Bay Area Compliance Laboratory Corp 04. Aug 03 10: 22

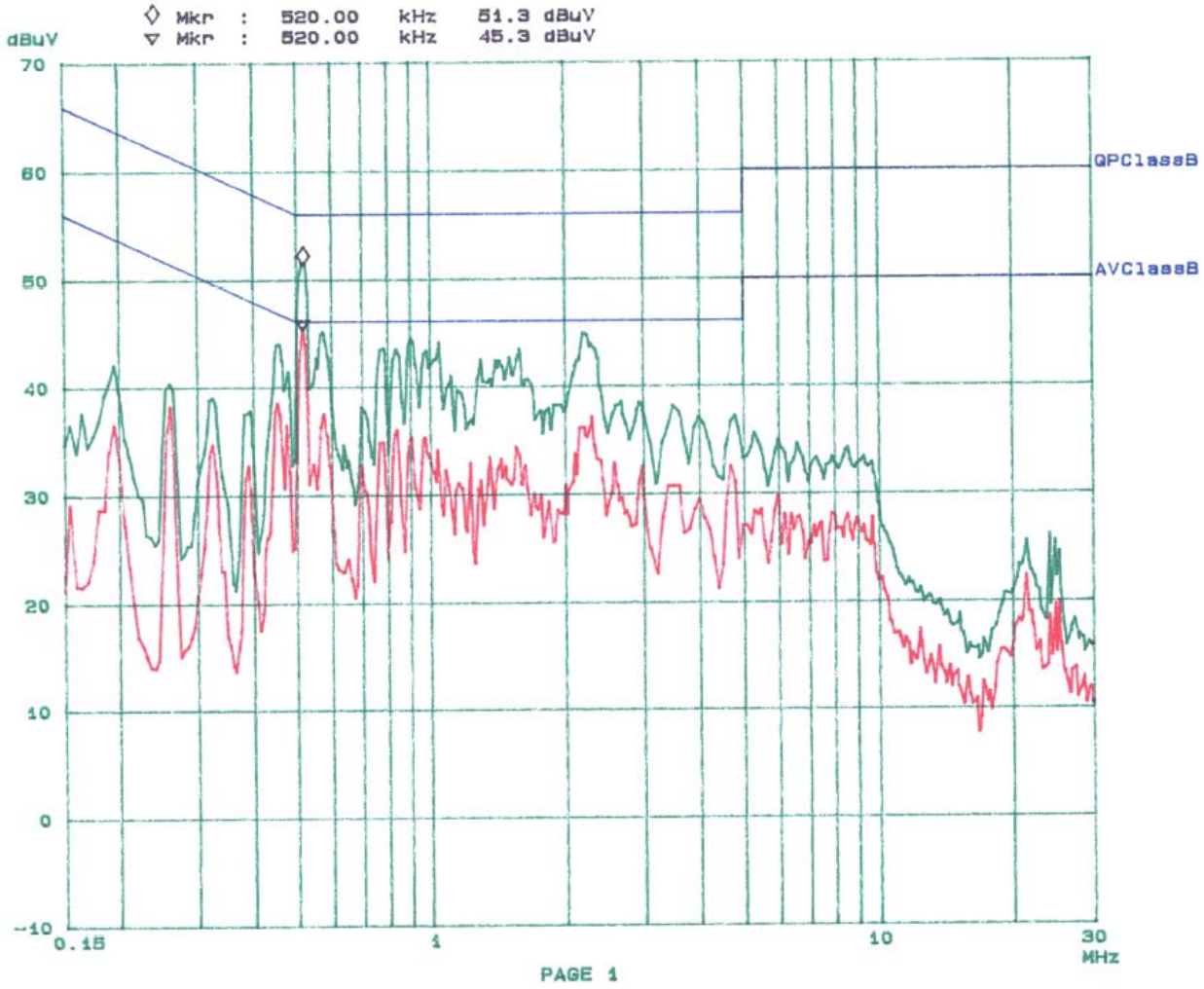
Class B

EUT: SV10B
Manuf: HTC
Op Cond: Normal
Operator: ling
Comment: N (PHIHONG)

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	1M	5k	9k	QP+AV	20ms	10dBLN	OFF
1M	3M	10k	9k	QP+AV	1ms	10dBLN	OFF
3M	30M	100k	9k	QP+AV	1ms	10dBLN	OFF

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB



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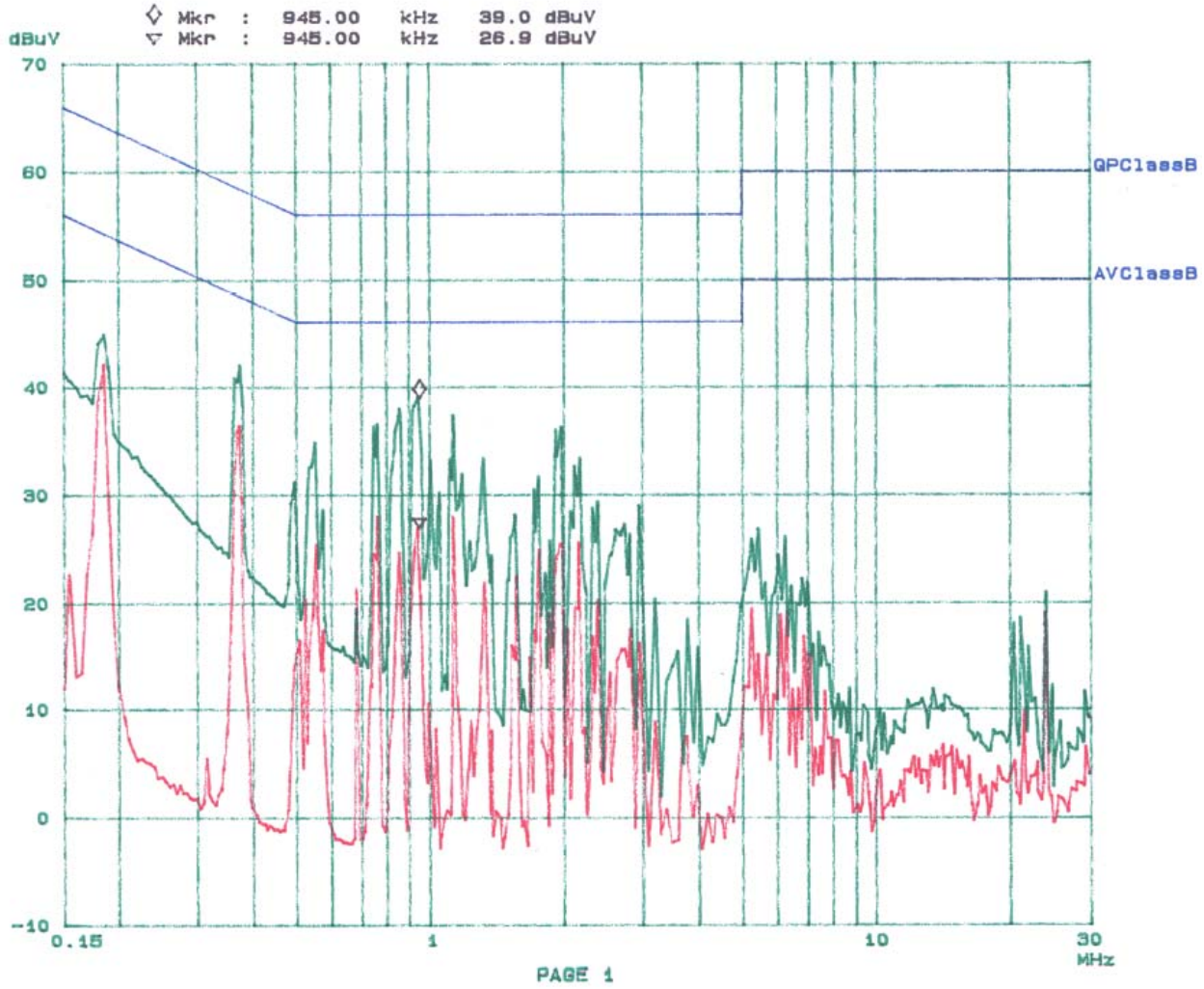
1ay Area Compliance Laboratory Corp 04. Aug 03 15:54
Class B

EUT: SV10B
Manuf: HTC
Op Cond: Normal
Operator: LING
Comment: L (DELTA)

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	1M	5k	9k	QP+AV	20ms	10dBLN	OFF
1M	3M	10k	9k	QP+AV	1ms	10dBLN	OFF
3M	30M	100k	9k	QP+AV	1ms	10dBLN	OFF

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB



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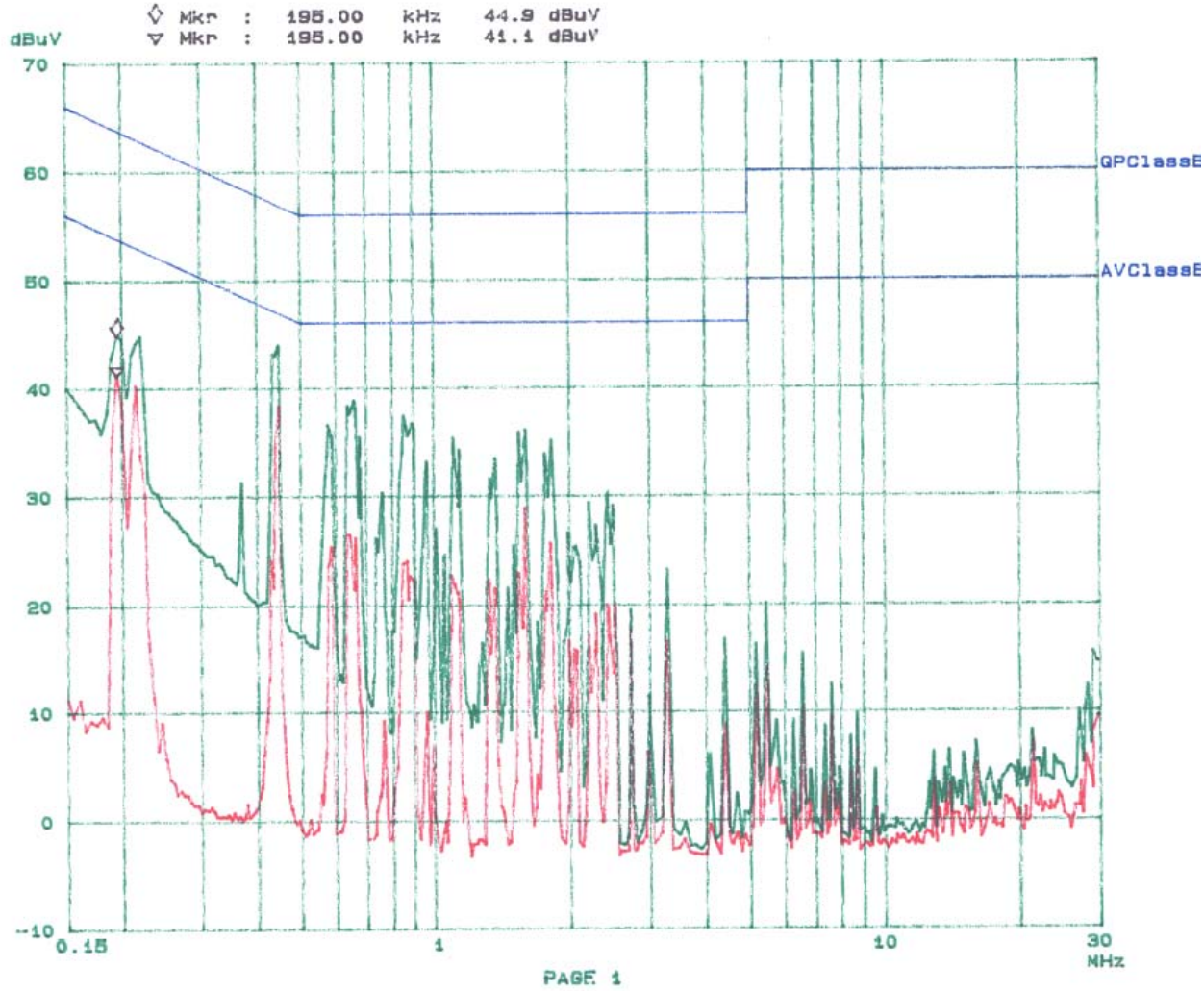
1ay Area Compliance Laboratory Corp 04. Aug 03 16:13
Class B

EUT: SV10B
Manuf: HTC
Op Cond: Normal
Operator: LING
Comment: N (DELTA)

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	1M	5k	9k	QP+AV	20ms	10dBLN	OFF
1M	3M	10k	9k	QP+AV	1ms	10dBLN	OFF
3M	30M	100k	9k	QP+AV	1ms	10dBLN	OFF

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB



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13 - ANTENNA REQUIREMENT

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to § 15.247 (1), if transmitting antennas of directional gain greater than 6 dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The gain of the integrated antenna used for transmitting is –1.2 dBi and is complied with 15.203. Please see EUT photo for details.

14 – RF EXPOSURE REQUIREMENT

According to the TCB Exclusions List, the limit for general population of portable transmitters that are used less than 2.5 cm from a person's body is:

Low threshold :$(60/f_{GHZ})$ mW, d < 2.5 cm => (60/2.4) mW = 25mW

The maximum output power for the device is 0.0012 W (1.2 mW) which is less than the limit listed in the TCB exclusions lists (25mW). Therefore, SAR test is not required for the Part15 portion of this device.