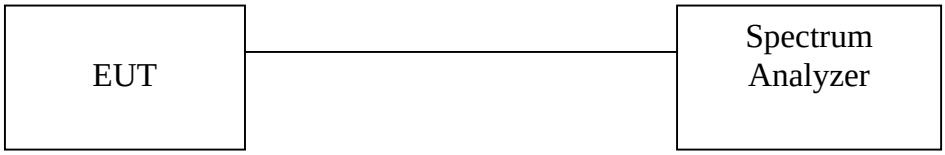
6.4 Band Edge Measurement

6.4.1 Test Procedure (Conducted)

1. The transmitter output of EUT was connected to the spectrum analyzer.
   Equipment mode: Spectrum analyzer
   Detector function: Peak mode
   SPAN: 100MHz
   RBW: 100KHz
   VBW: 100KHz
   Center frequency: 2.4GHz, 2.4835GHz.
2. Using Peak Search to read the peak power of Carrier frequencies after Maximum Hold function is completed
3. Find the next peak frequency outside the operation frequency band

6.4.2 Test Setup (Conducted)



6.4.3 Test Data:

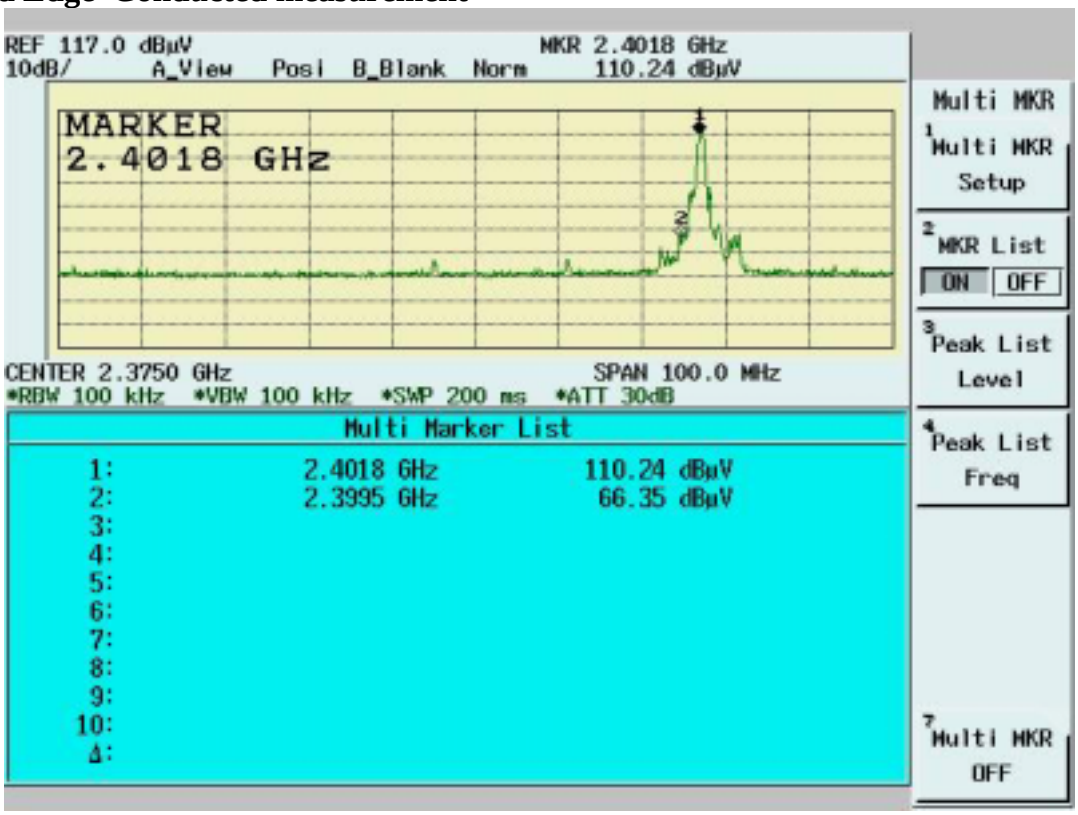
Table: Band Edge measurement (Conducted)

Temperature (℃):25

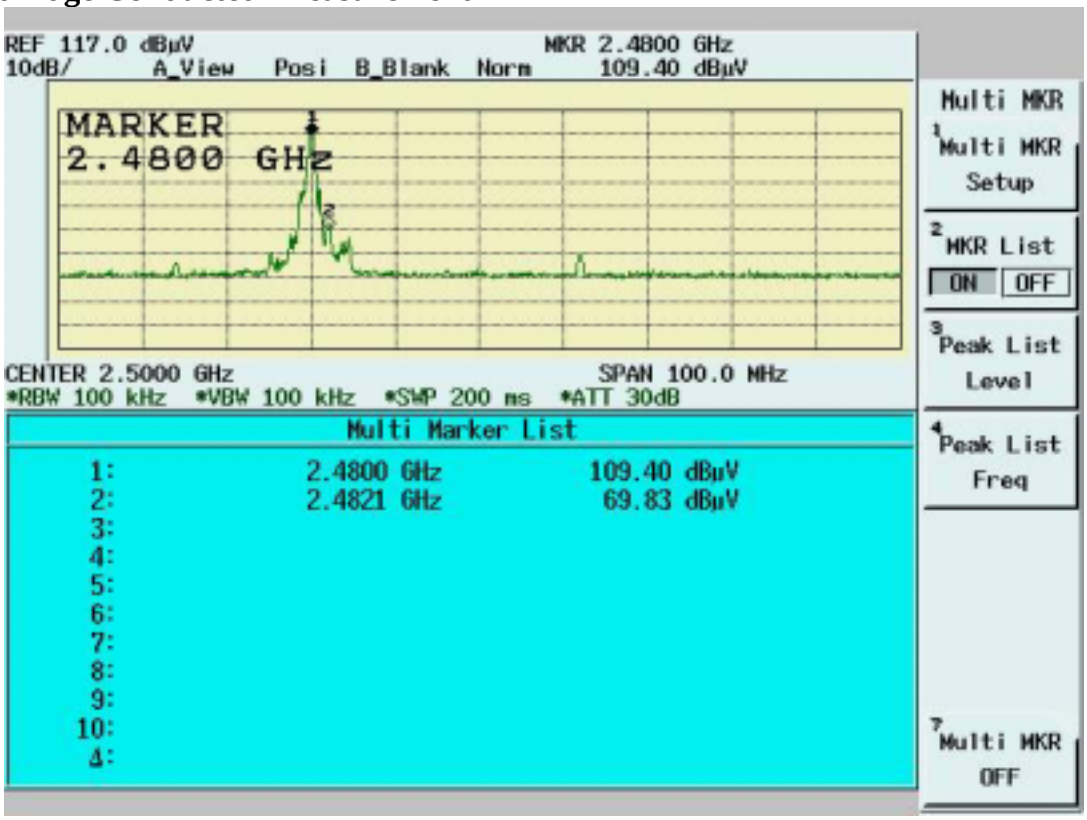
Test Engineer:Jerry Chiou Humidity (%):55

Channel	Frequency (MHz)	Spectrum Reading (dBuV)	Carrier - Outsideband Limit: >20dB (dB)	Pass/Fail
00	2401.8	110.2	---	---
Outside band	2399.5	66.4	43.9	Pass
78	2480.0	109.4	---	---
Outside band	2482.1	69.8	39.6	Pass

Band Edge Conducted measurement



Band Edge Conducted Measurement



6.4.4 Test Procedure (Radiated)

1. Antenna and Turntable test procedure same as Radiated Emission Measurement.
   Equipment mode: Spectrum analyzer
   Detector function: Peak mode
   SPAN: 100MHz
   RBW: 1MHz
   VBW: 3MHz
   Center frequency: 2.375GHz, 2.500GHz.
2. Using Peak Search to read the peak power of Carrier frequencies after Maximum Hold function is completed.
3. Find the next peak frequency outside the operation frequency band
4. For peak frequency emission level measurement in Restricted Band ,
   Change RBW: 1MHz
   VBW: 10Hz
   Span: 100MHz.
5. Get the spectrum reading after Maximum Hold function is completed.

6.4.5 Test Setup (Radiated)

Same as *Radiated Emission Measurement*

6.4.6 Test Data

Table Band Edge measurement (Radiated)

Test Engineer:Jerry Chiou Temperature (°C):27

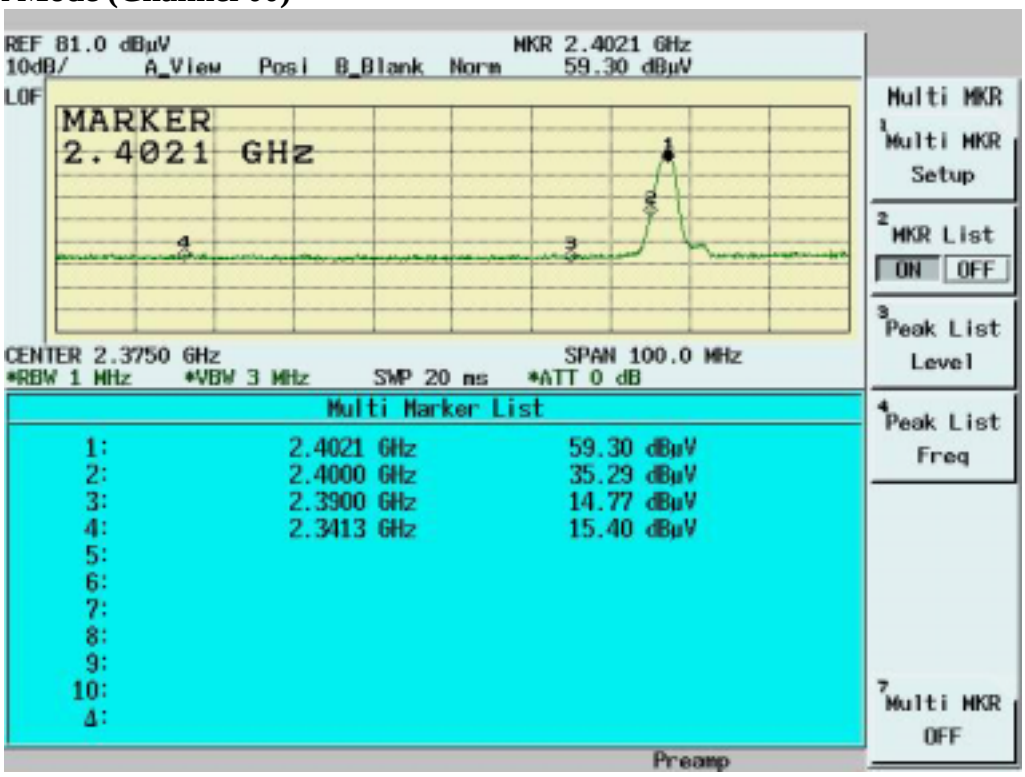
Data Rate Humidity (%):40

Description	Frequency (MHz)	Spectrum Reading (dBuV)	Correction Factor (dB/m)	Emission Level (dBuV/m)	dBc (Limit: > 20dBc)	Limit (dBuV/m)	Equip. Setup VBW	Pass or Fail
Channel_00 (average mode)	2402.20	25.30	35.48	60.78	---	---	10Hz	---
Channel_00 (peak mode)	2402.10	59.30	35.48	94.78	---	---	3MHz	---
Outside band (peak mode)	2400.00	35.29	35.48	70.77	24.01	---	3MHz	Pass
Channel_78 (average mode)	2480.10	25.16	35.51	60.67	---	---	10Hz	---
Channel_78 (peak mode)	2480.00	58.48	35.51	93.99	---	---	3MHz	---
Outside band (peak mode)	2482.00	28.24	35.51	63.75	30.24	---	3MHz	Pass
Channel_00 Restricted band (peak mode)	2341.30	15.40	35.47	50.87	---	74	3MHz	Pass
Restricted band (average mode)	2390.00	4.98	35.47	40.45	---	54	10Hz	Pass
Channel_78 Restricted band (peak mode)	2484.40	18.53	35.51	54.04	---	74	3MHz	Pass
Restricted band (average mode)	2484.00	6.76	35.51	42.27	---	54	10Hz	Pass

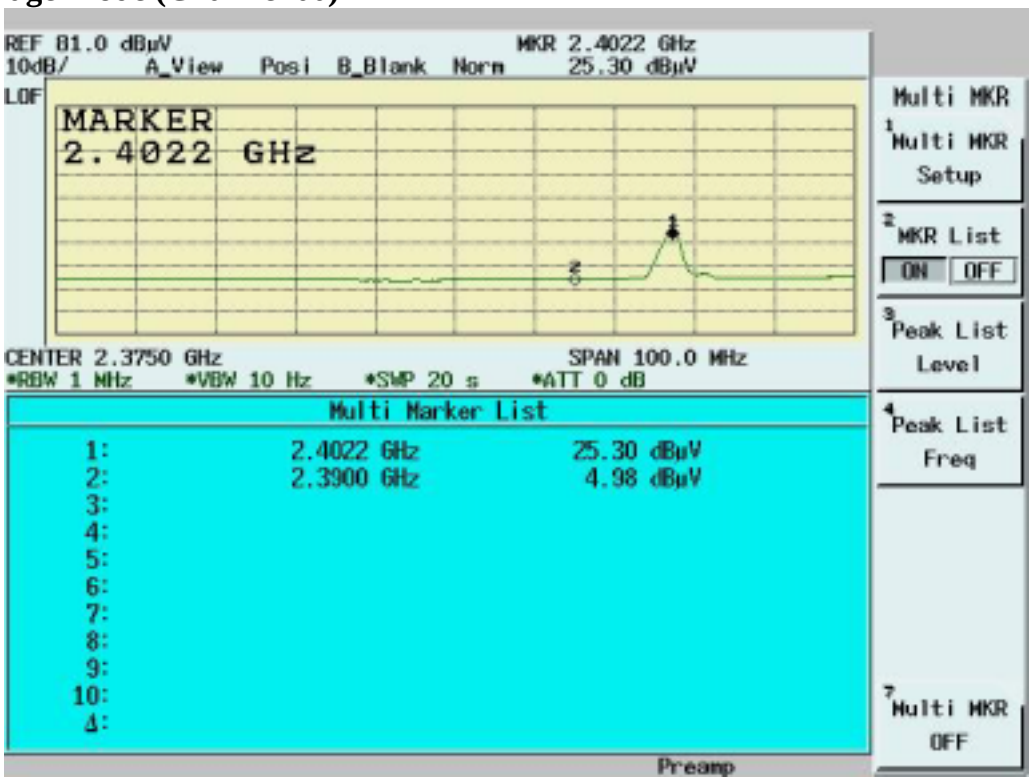
Note:

- The Spectrum plot of emission level measurement in Restricted band is attached.
- Emission Level=Spectrum Reading+Correction Factor
- Correction Factor=Antenna Factor+cable loss–amplifier gain
- Both Horizontal and Vertical polarizaion have been tested and the worst data is listed above.

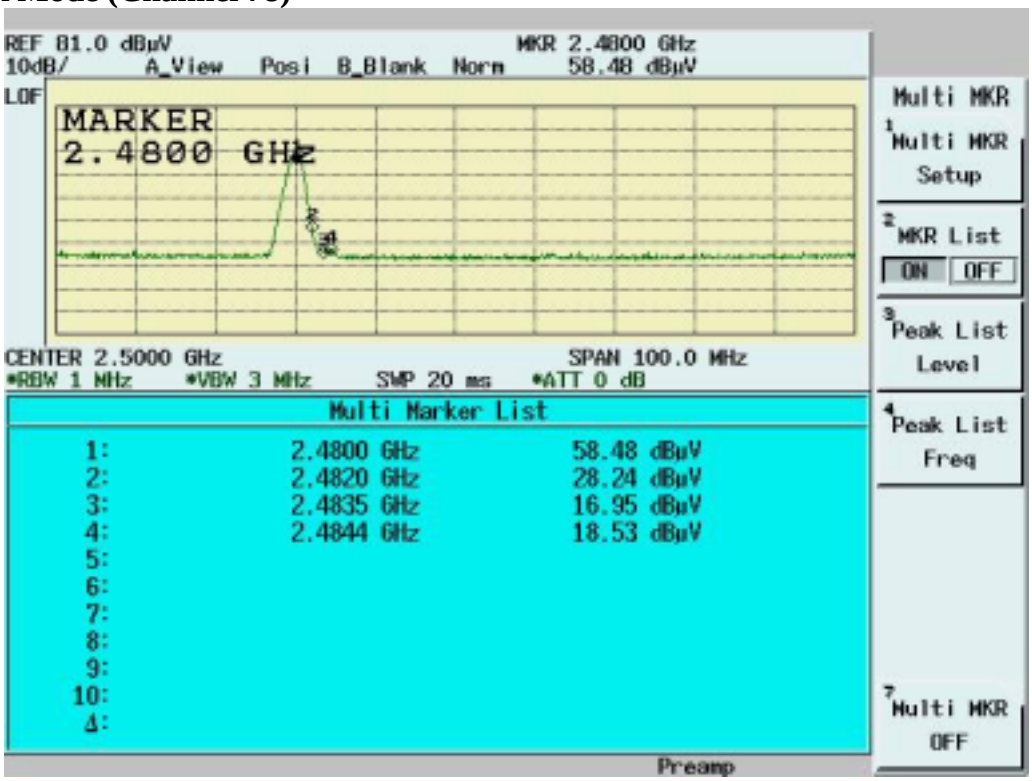
Band Edge measurement for radiated emission in Restricted Band(Radiated) Peak Mode (Channel 00)



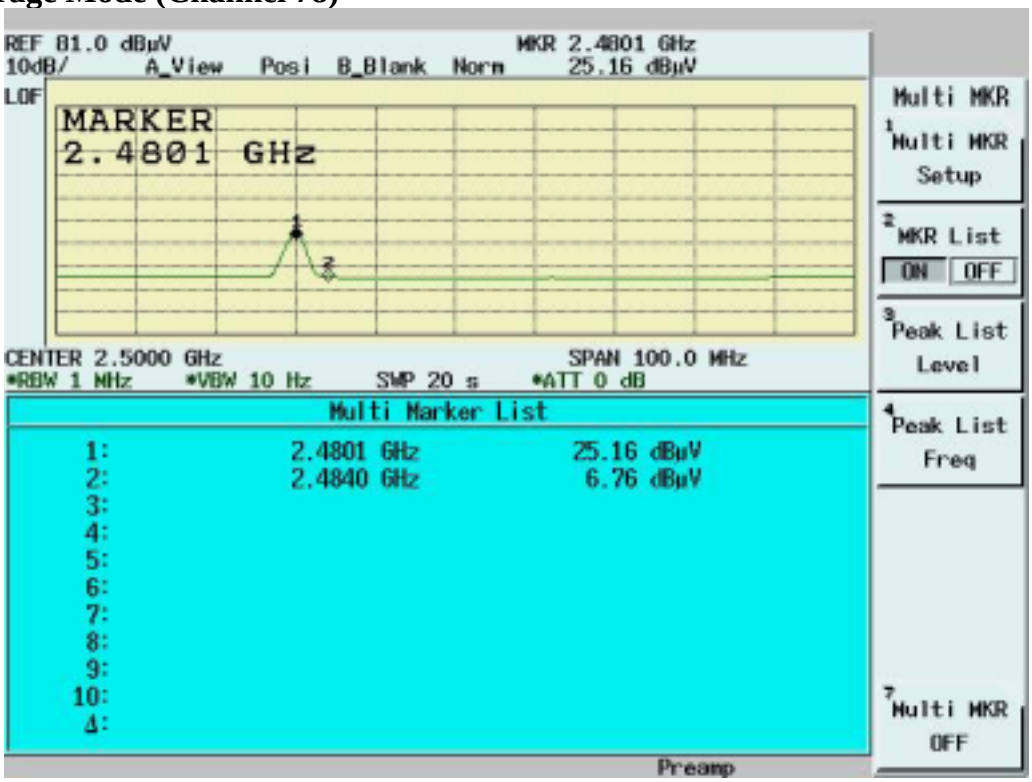
Band Edge measurement for radiated emission in Restricted Band(Radiated) Average Mode (Channel 00)



Band Edge measurement for radiated emission in Restricted Band(Radiated) Peak Mode (Channel 78)



Band Edge measurement for radiated emission in Restricted Band(Radiated) Average Mode (Channel 78)



6.5 Bandwidth & Hopping Channel Separation

6.5.1 Standard Applicable

According to §15.247(a)(1), frequency hopping system shall have, hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies.

6.5.2 Test Procedure

■ Bandwidth Test Procedure

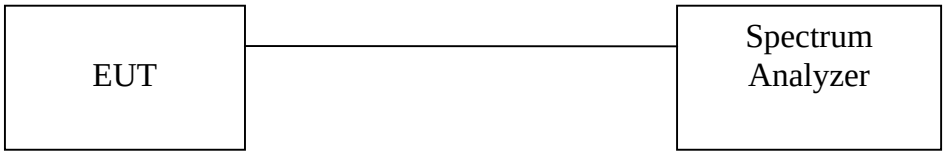
The Transmitter output of EUT was connected to the spectrum analyzer. The 20 dB bandwidth of the fundamental frequency was measured. The setting of spectrum analyzer is as follows

Equipment mode	Spectrum analyzer
Detector function	Peak mode
RBW	30KHz
VBW	100KHz

■ Hopping Channel Separation Test Procedure

1. Connect EUT antenna terminal to the spectrum analyzer with a low loss cable.
   Equipment mode: Spectrum analyzer
   RBW: 100KHz
   VBW: 300KHz
   SPAN:3MHz
2. By using the Max-Hold function record the separation of two adjacent channels.
3. Measure the frequency difference of these two adjacent channels by spectrum analyzer Marker function.
4. Repeat above procedures until all frequencies measured were complete.

6.5.3 Test Setup



6.5.4 Test Data

20dB Bandwidth

Temperature (°C):25

Test Engineer:Jerry Chiou Humidity (%):55

Channel	Frequency (MHz)	20dB Bandwidth (KHz)	Limit (KHz)	Pass/Fail
00	**2402**	840	≦ 1000	Pass
39	**2441**	840	≦ 1000	Pass
78	**2480**	840	≦ 1000	Pass

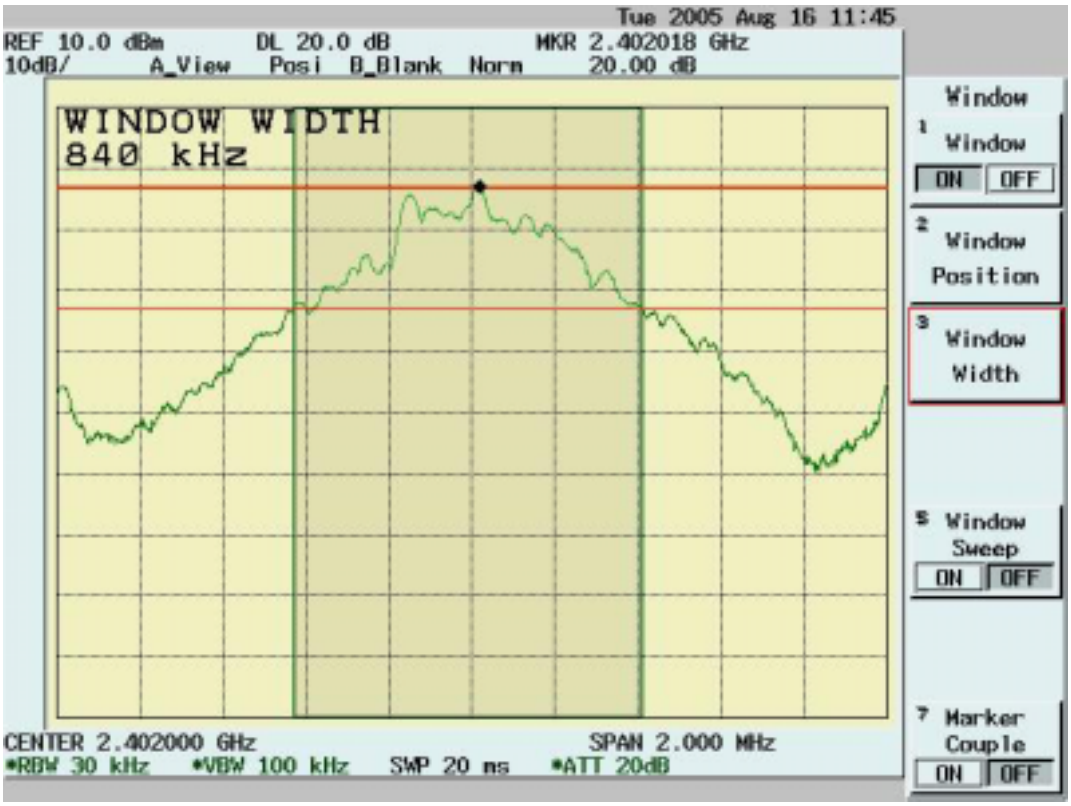
Hopping Channel Separation

Temperature (°C):22

Test Engineer:Mailes Hsieh Humidity (%):25

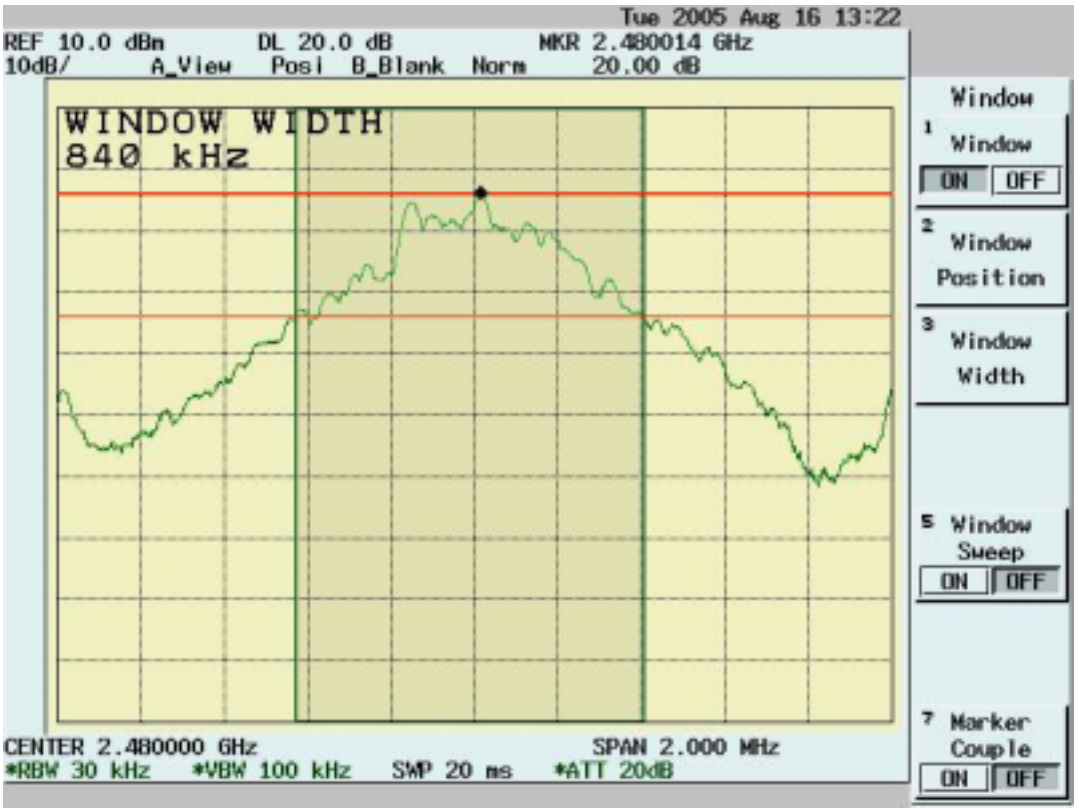
Channel	Frequency (MHz)	Separation (KHz)	Limit (KHz)	Pass/Fail
00	**2402**	999	≧ 840	Pass
39	**2441**	1002	≧ 840	Pass
78	**2480**	999	≧ 840	Pass

20dB Bandwidth Channel 00:

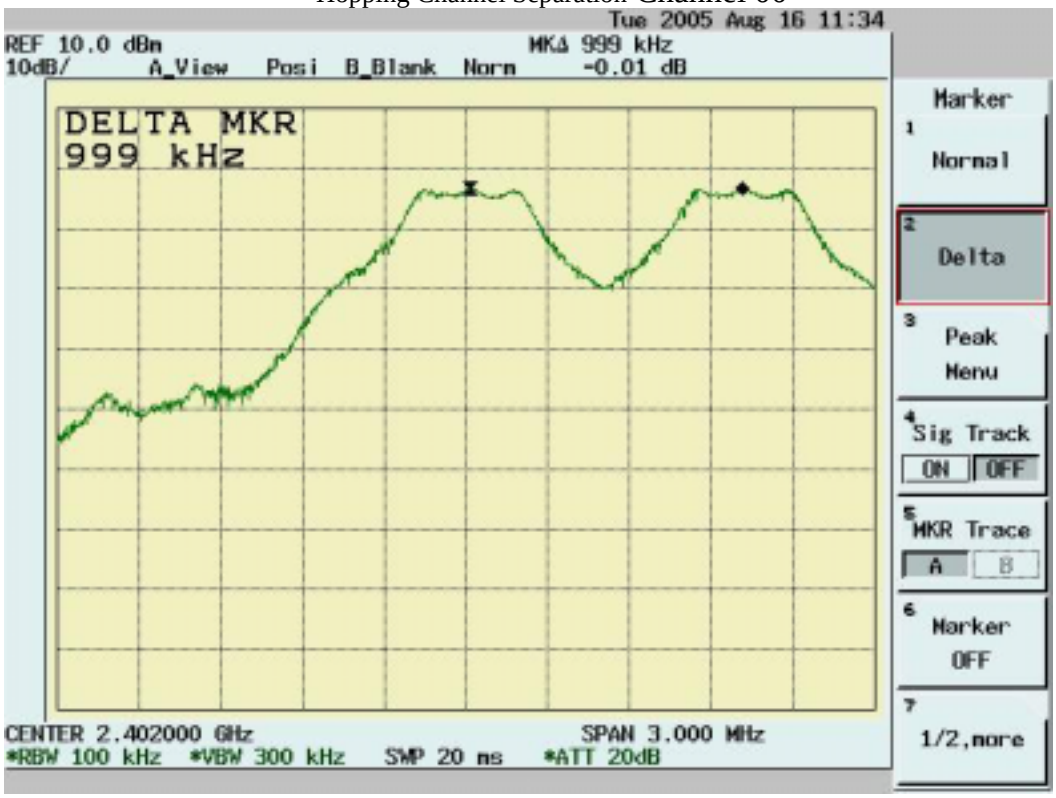


20dB Bandwidth Channel 39:

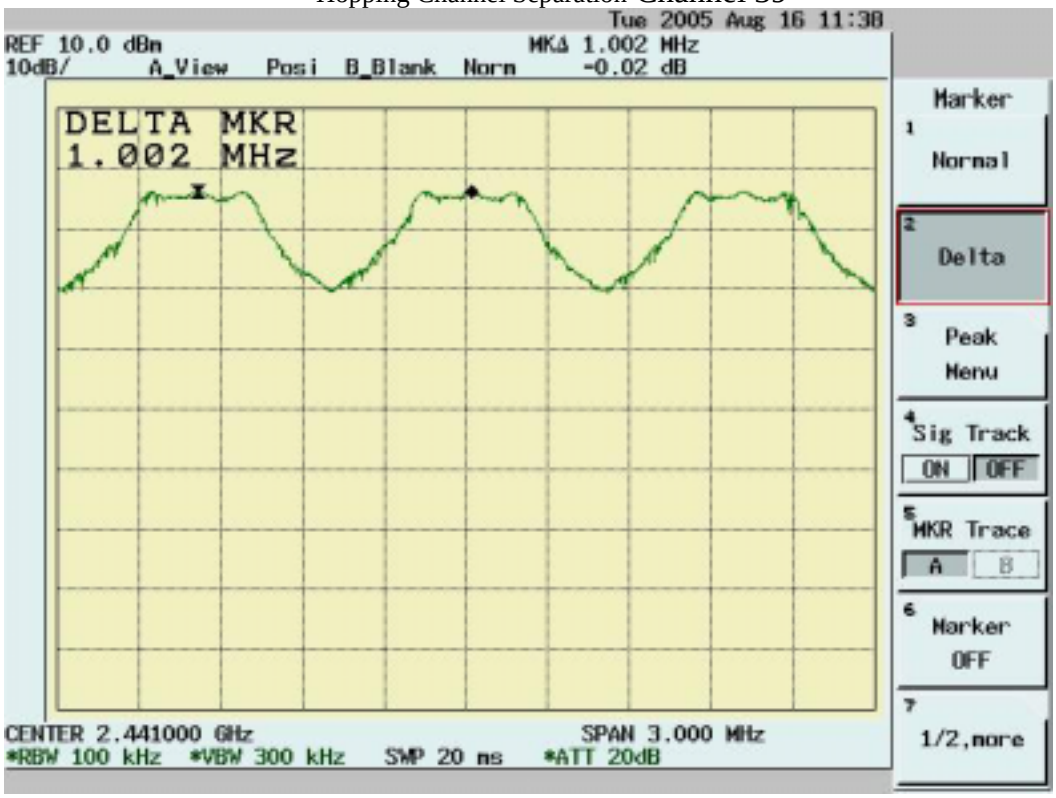
20dB Bandwidth Channel 78:



Hopping Channel Separation Channel 00



Hopping Channel Separation Channel 39



Hopping Channel Separation Channel 78

6.6 Number of Hopping Frequency Used

1.1.1 Test Procedure

1. Connect EUT antenna terminal to the spectrum analyzer with a low loss cable.
   Equipment mode: Spectrum analyzer
   RBW: 300KHz
   VBW: 1MHz

2. Set the spectrum analyzer on Max-Hold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
3. Repeat above procedures until all frequencies measured were complete.

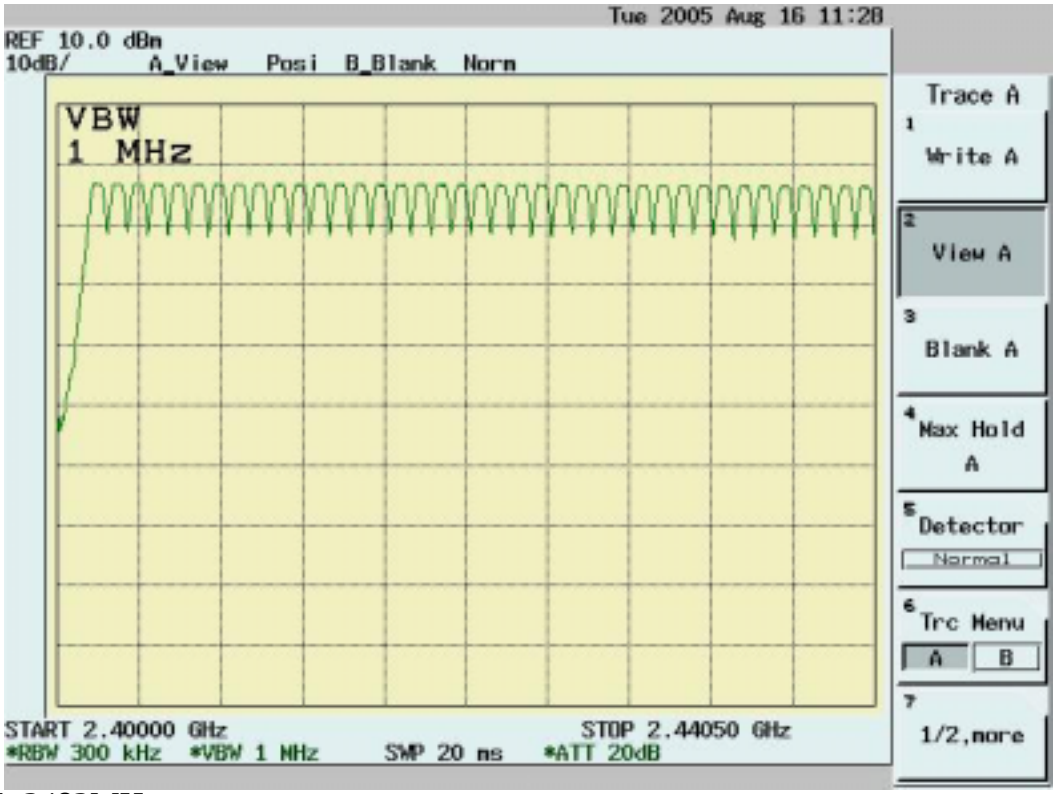
6.6.1 Test Setup

6.6.2 Test Data

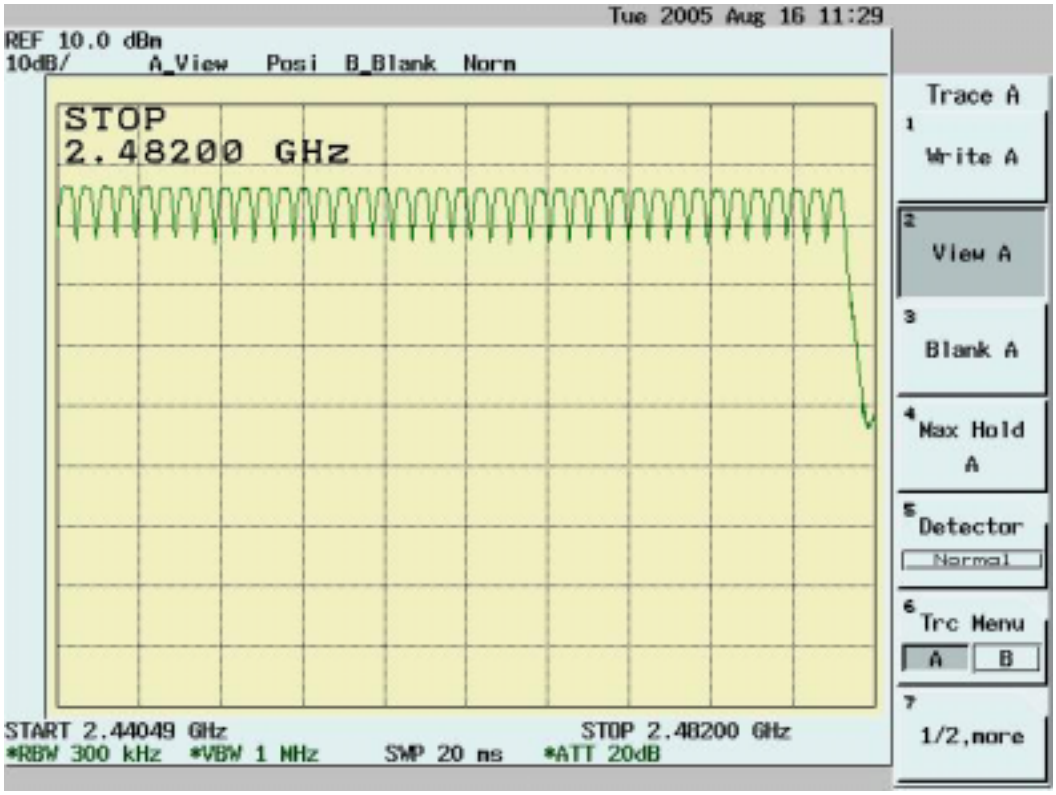
Number of Hopping Frequency Used

Test result	Limit (KHz)	Pass/Fail
79	>75	Pass

2400~2405MHz



2405~2482MHz



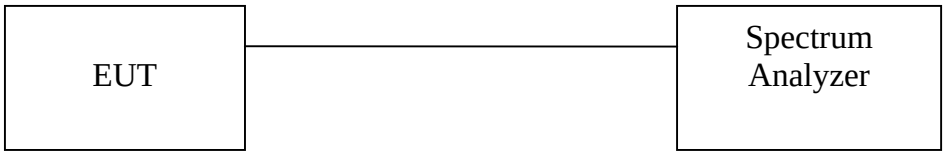
6.7 Dwell Time

6.7.1 Test Procedure

1 Connect EUT antenna terminal to the spectrum analyzer with a low loss cable.
Equipment mode: Spectrum analyzer
RBW: 1MHz
VBW: 1MHz
SPAN: Zero Span

2 Adjust the center frequency of spectrum analyzer on any frequency be measured.
3 Measure the Dwell Time by spectrum analyzer Marker function.
4 Repeat above procedures until all frequencies measured were complete.

6.7.2 Test Setup



6.7.3 Test Data

Dwell Time

Temperature (℃):25

Test Engineer:Jerry Chiou

Humidity (%):55

Mode	Frequency (MHz)	Spectrum Reading (μs)	Test Result (ms)	Limit (ms)	Pass/Fail
DH1	**2402**	414	264.96	< 400	Pass
DH3	**2402**	1668	355.84	< 400	Pass
DH5	**2402**	2912	372.74	< 400	Pass

Mode	Frequency (MHz)	Spectrum Reading (μs)	Test Result (ms)	Limit (ms)	Pass/Fail
DH1	**2441**	416	266.24	< 400	Pass
DH3	**2441**	1668	355.84	< 400	Pass
DH5	**2441**	2912	372.74	< 400	Pass

Mode	Frequency (MHz)	Spectrum Reading (μs)	Test Result (ms)	Limit (ms)	Pass/Fail
DH1	**2480**	414	264.96	< 400	Pass
DH3	**2480**	1668	355.84	< 400	Pass
DH5	**2480**	2912	372.74	< 400	Pass

Note:

A period time=79x0.4(s)=31.6(s)

CH00 DH1 time slot= 414 (μs)*(1600/(1*79))*31.6 = 264.96 (ms)

DH3 time slot= 1668 (μs)*(1600/(3*79))*31.6 = 355.84 (ms)

DH5 time slot= 2912 (μs)*(1600/(5*79))*31.6 = 372.74 (ms)

CH39 DH1 time slot= 416 (μs)*(1600/(1*79))*31.6 = 266.24 (ms)

DH3 time slot= 1668 (μs)*(1600/(3*79))*31.6 = 355.84 (ms)

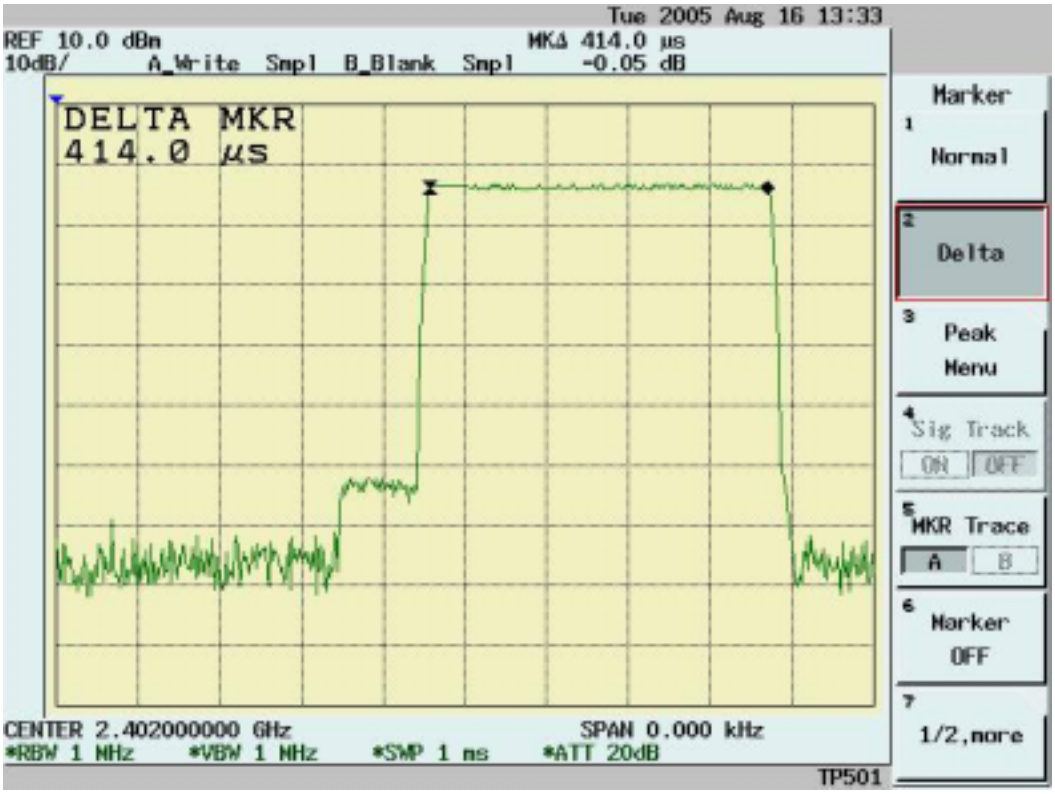
DH5 time slot= 2912 (μs)*(1600/(5*79))*31.6 = 372.74 (ms)

CH78 DH1 time slot= 414 (μs)*(1600/(1*79))*31.6 = 264.96 (ms)

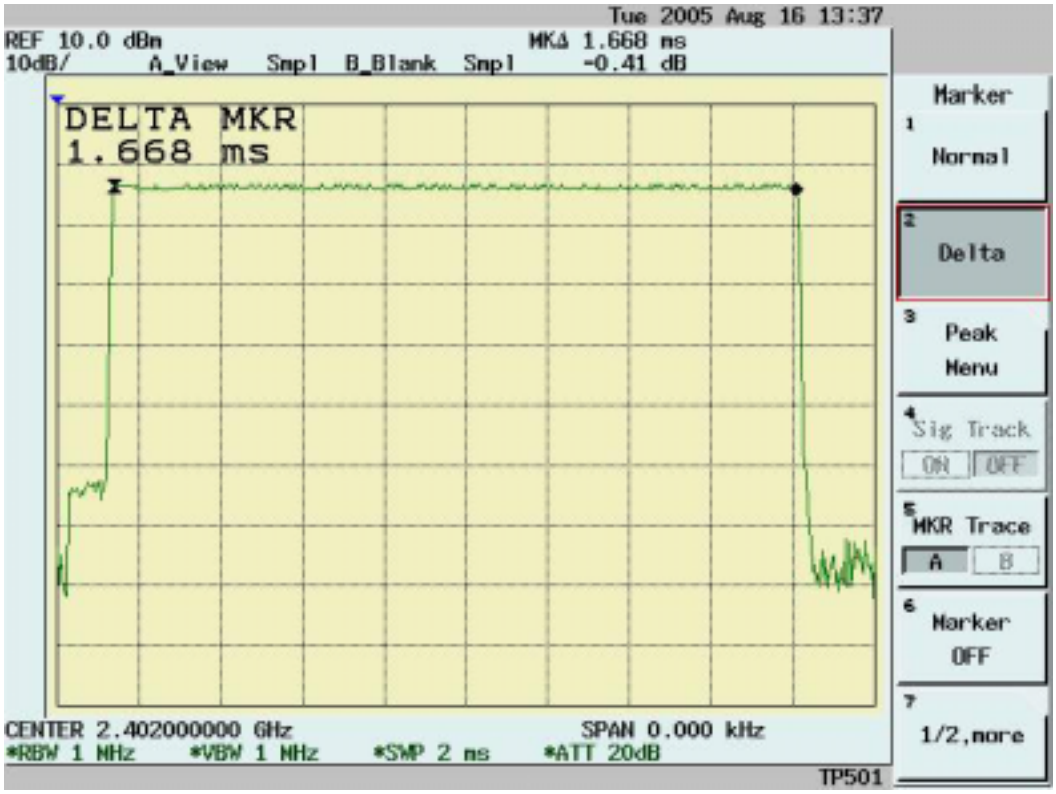
DH3 time slot= 1668 (μs)*(1600/(3*79))*31.6 = 355.84 (ms)

DH5 time slot= 2912 (μs)*(1600/(5*79))*31.6 = 372.74 (ms)

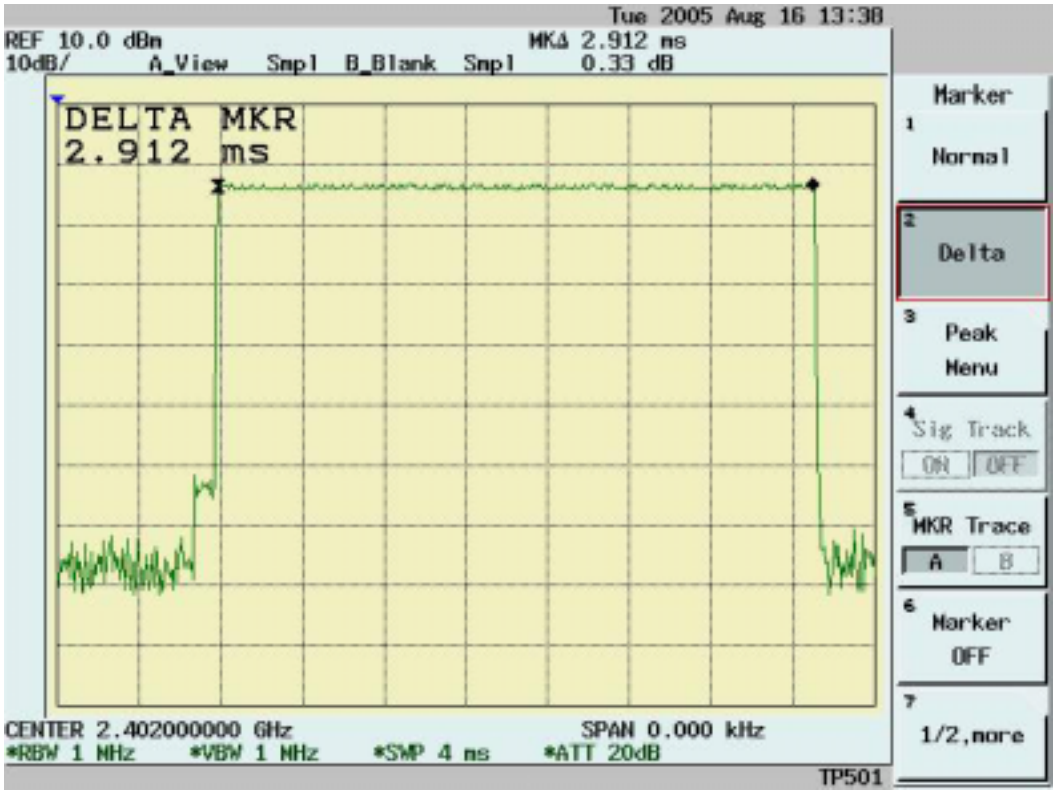
CH00 DH1 DWELL Time



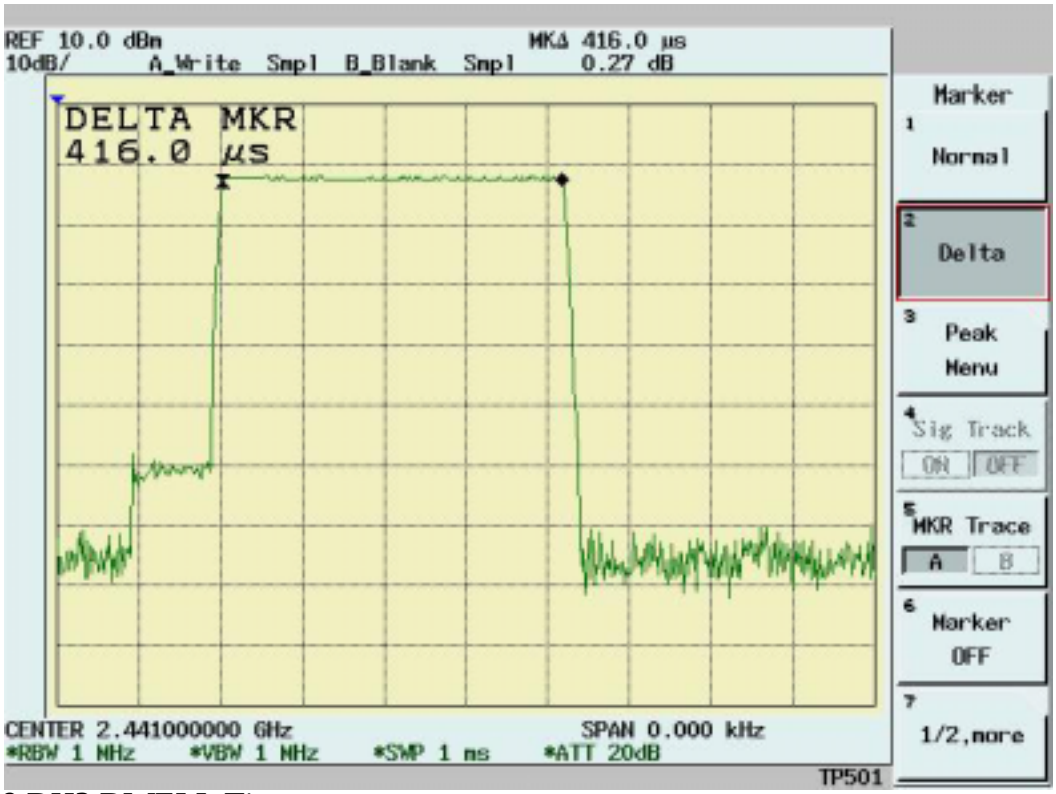
CH00 DH3 DWELL Time



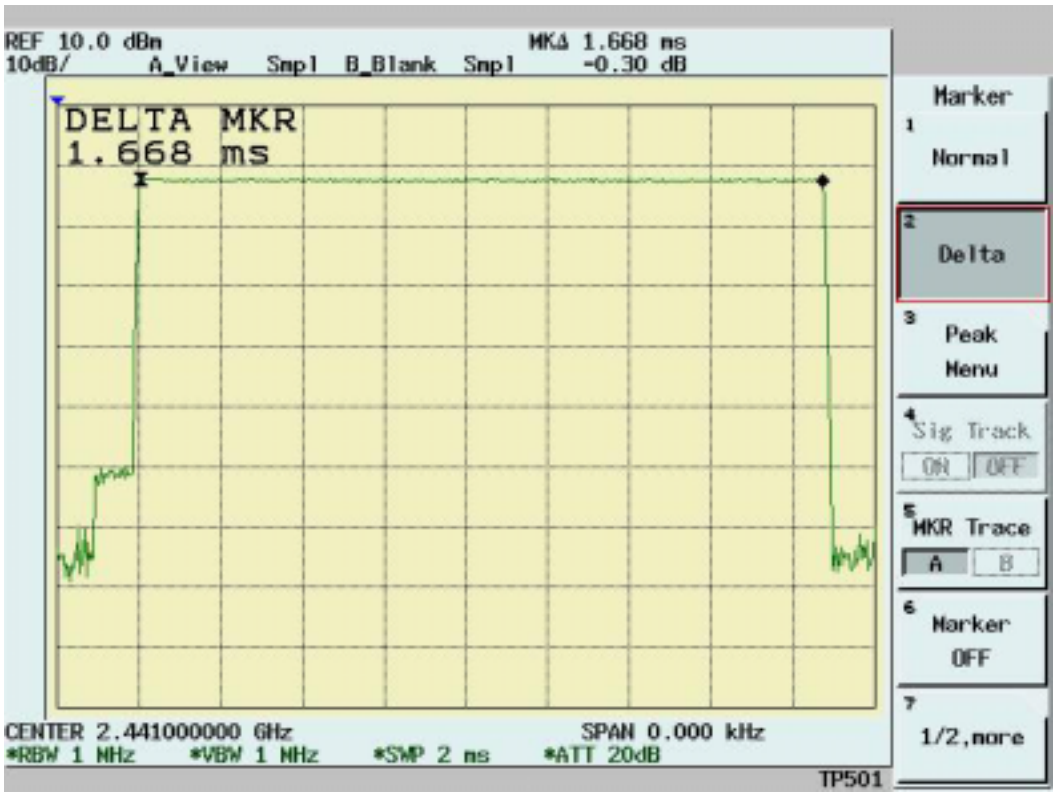
CH00 DH5 DWELL Time



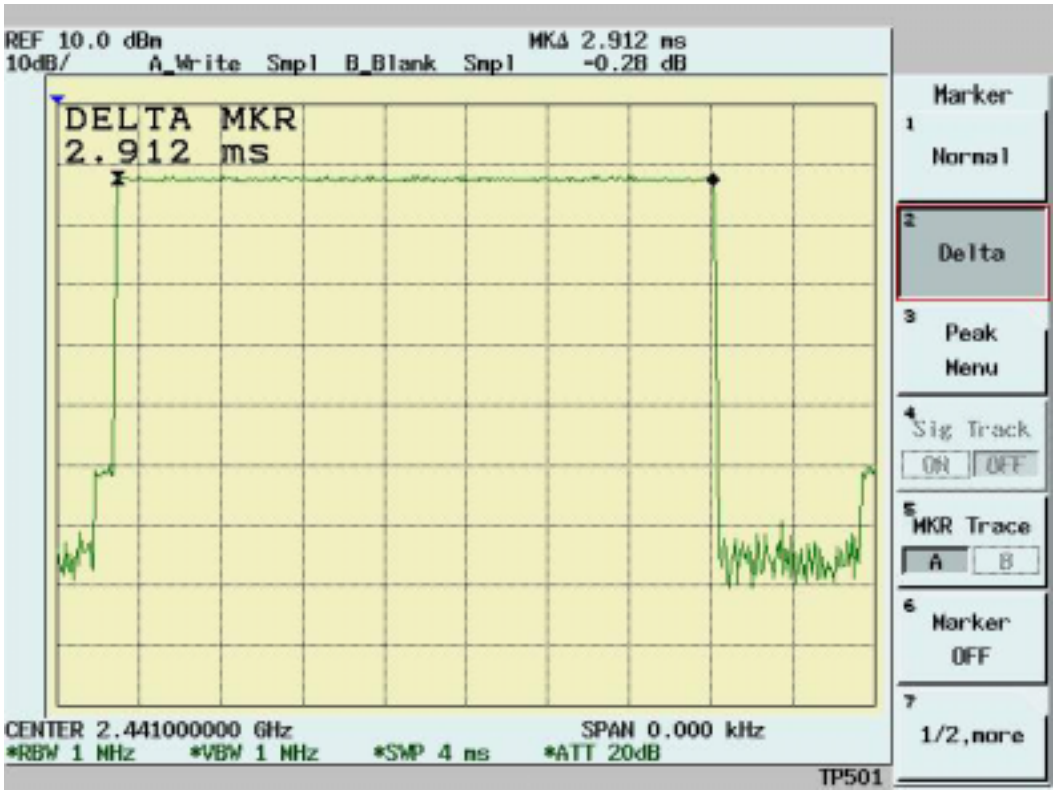
CH39 DH1 DWELL Time



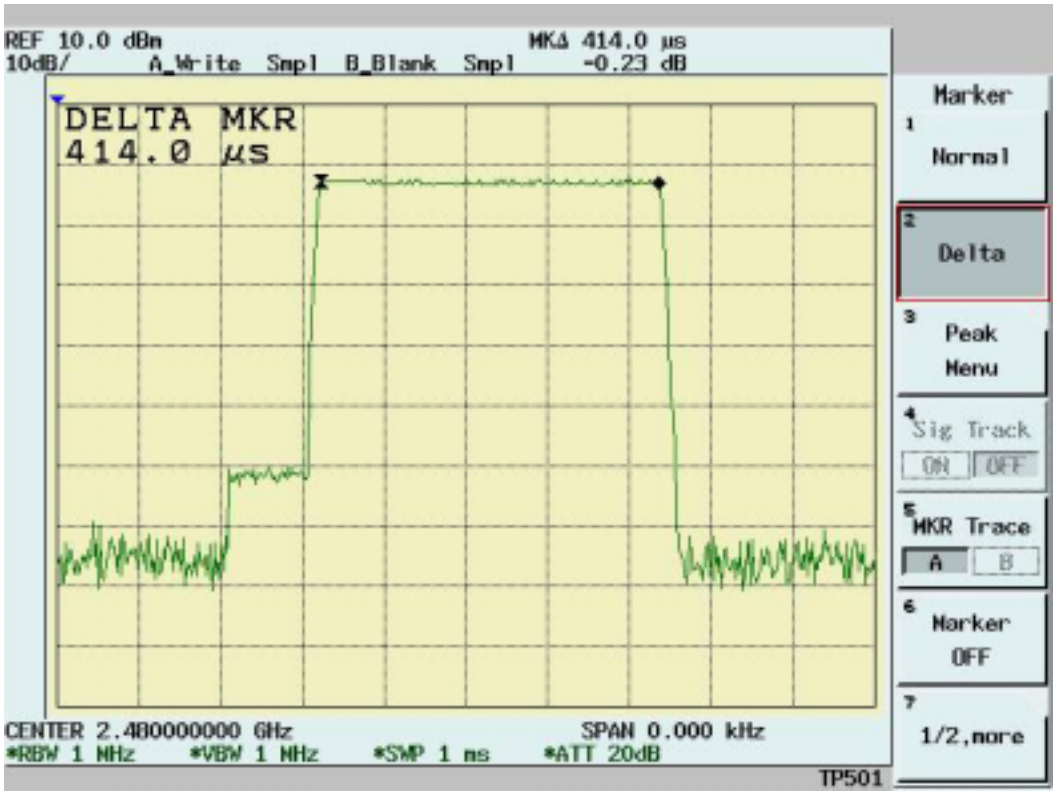
CH39 DH3 DWELL Time



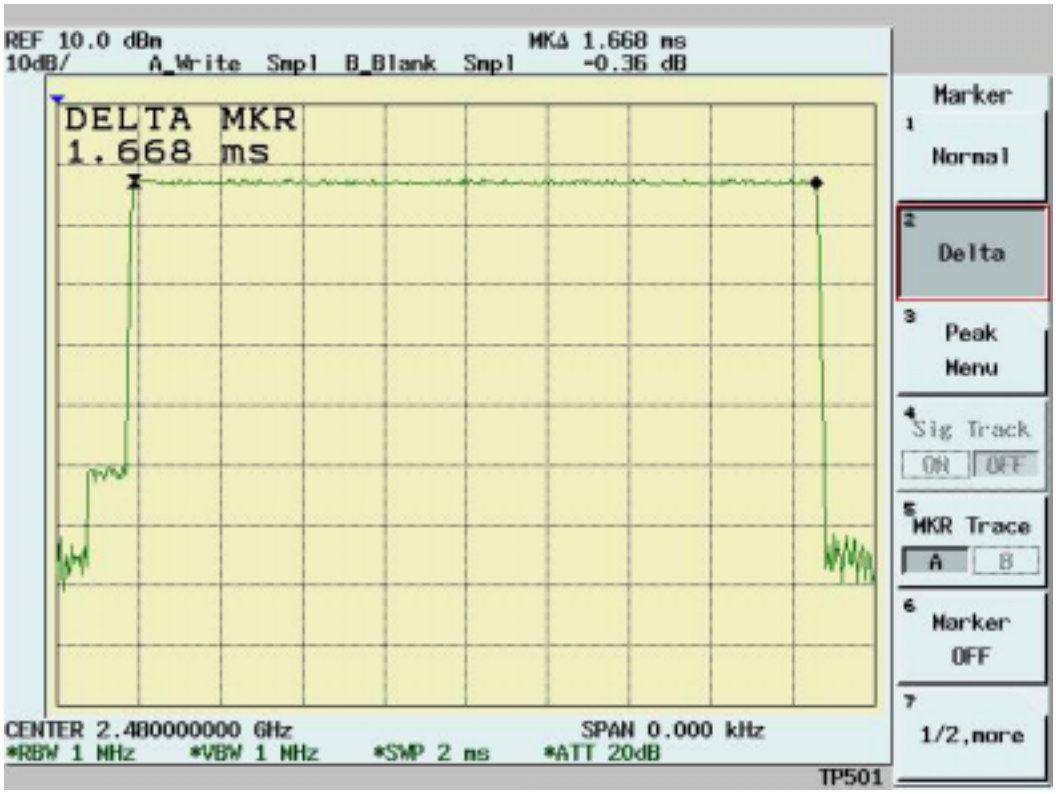
CH39 DH5 DWELL Time



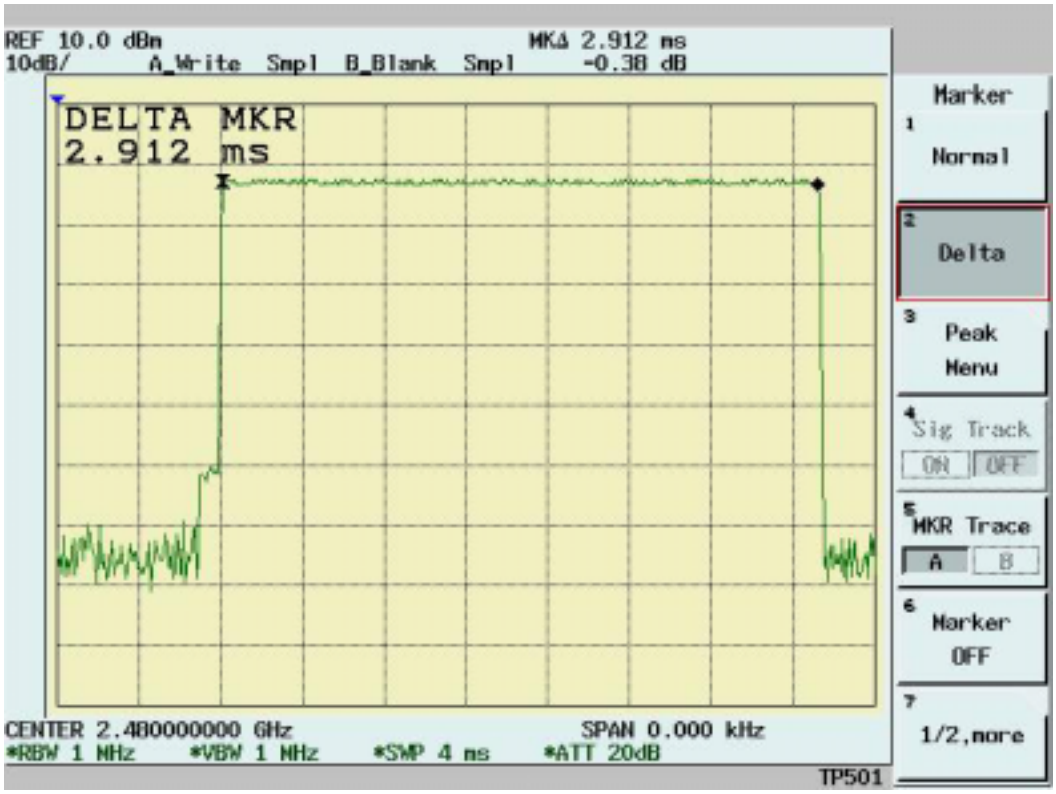
CH78 DH1 DWELL Time



CH78 DH3 DWELL Time



CH78 DH5 DWELL Time



7. Appendix

7.1 Appendix A: Measurement Procedure for Power line Conducted Emissions

The measurements are performed in a 3.5m x 3.4m x 2.5m shielded room, which referred as Conduction 01 test site, or a 3m x 3m x 2.3m test site, which referred as Conduction 02 test site. The EUT was placed on non-conduction 1.0m x 1.5m table, which is 0.8 meters above an earth-grounded.

Power to the EUT was provided through the LISN which has the Impedance (50ohm/50uH) vs. Frequency Characteristic in accordance with the required standard. Power to the LISNs were filtered to eliminate ambient signal interference and these filters were bonded to the ground plane. Peripheral equipment required to provide a functional system (support equipment) for EUT testing was powered from the second LISN through a ganged, metal power outlet box which is bonded to the ground plane at the LISN.

If the EUT is supplied with a flexible power cord, the power cord length in excess of the distance separating the EUT from the LISN shall be folded back and forth at the center of the lead so as to form a bundle not exceeding 40cm in length. If the EUT is provided with a permanently coiled power cord, bundling of the cord is not required. If the EUT is supplied without a power cord, the EUT shall be connected to the LISN by a power cord of the type specified by the manufacturer which shall not be longer than 1 meter. The excess power cord shall be bundled as described above. If a non-flexible power cord is provided with the EUT, it shall be cut to the length necessary to attach the EUT to the LISN and shall not be bundled.

The interconnecting cables were arranged and moved to get the maximum emission. Both the line of power cord, hot and neutral, were measured.

The highest emissions were analyzed in details by operating the spectrum analyzer in fixed tuned mode to determine the nature of the emissions and to provide information which could be useful in reducing their amplitude.

7.2 Appendix B: Test Procedure for Radiated Emissions

Preliminary Measurements in the Anechoic Chamber

The radiated emissions are initially measured in the anechoic chamber at a measurement distance of 3 meters. Desktop EUT are placed on a wooden stand 0.8 meter in height. The measurement antenna is 3 meters from the EUT. The test setup in anechoic chamber is the same as open site. The turntable rotated 360°C. The antenna height is varied from 1-2.5m. The primary objective of the radiated measurements in the anechoic chamber is to identify the frequency spectrum in the absence of the electromagnetic environment existing on the open test site. The frequencies can then be pre-selected on the open test site to obtain the corresponding amplitude. The initial scan is made with the spectrum analyzer in automatic sweep mode. The spectrum peaks are then measured manually to determine the exact frequencies.

Measurements on the Open Site or 10m EMC Chamber

The radiated emissions test will then be repeated on the open site or 10m EMC chamber to measure the amplitudes accurately and without the multiple reflections existing in the shielded room. The EUT and support equipment are set up on the turntable of one of the 3 or 10 meter open field sites. Desktop EUT are set up on a wooden stand 0.8 meter above the ground.

For the initial measurements, the receiving antenna is varied from 1-4 meter height and is changed in the vertical plane from vertical to horizontal polarization at each frequency. Both reading are recorded with the quasi-peak detector with 120KHz bandwidth. For frequency between 30 MHz and 1000MHz, the reading is recorded with peak detector or quasi-peak detector. For frequency above 1 GHz, the reading is recorded with peak detector or average detector with 1 MHz bandwidth.

At the highest amplitudes observed, the EUT is rotated in the horizontal plane while changing the antenna polarization in the vertical plane to maximize the reading. The interconnecting cables were arranged and moved to get the maximum emission. Once the maximum reading is obtained, the antenna elevation and polarization will be varied between specified limits to maximize the readings.

7.3 Appendix C: Test Equipment

7.3.1 Test Equipment List

Location	Equipment Name	Brand	Model	S/N	Last Cal. Date	Next Cal. Date
Conduction	Coaxial Cable 1F-C2	Harbourindustries	RG400	1F-C2	05/20/2005	05/20/2006
Conduction	Digital Hygro-Thermometer Conduct	MicroLife	HT-2126G	ISL-Conduction02	11/30/2004	11/30/2005
Conduction	EMI Receiver 02	HP	85460A	3448A00183	10/01/2004	10/01/2005
Conduction	LISN 01	R&S	ESH2-Z5	890485/013	05/05/2005	05/05/2006
Conduction	LISN 06	R&S	ESH3-Z5	828874/009	12/18/2004	12/18/2005
Radiation	BILOG Antenna 08	Schaffner	CBL6112B	2756	06/02/2005	06/02/2006
Radiation	Coaxial Cable Chmb 02-10M	Belden	RG-8/U	Chmb 02-10M	11/16/2004	11/16/2005
Radiation	Digital Hygro-Thermometer Chmb 02	MicroLife	HT-2126G	Chmb 02	11/30/2004	12/30/2005
Radiation	EMI Receiver 03	HP	85460A	3448A00209	03/24/2005	03/24/2006
Radiation	Spectrum Analyzer 13	Advantest	R3132	121200411	02/16/2005	02/16/2006
Radiation	Horn Antenna 02	Com-Power	AH-118	10088	07/22/2005	07/22/2006
Radiation	Horn Antenna 04	Com-Power	AH-826	081-001	01/13/2005	01/13/2006
Radiation	Horn Antenna 05	Com-Power	AH-640	100A	09/22/2004	09/22/2005
Radiation	Microwave Cable RF SK-01	HUBER+SUHNERAG.	Sucoflex 102	22139 /2	07/07/2005	07/07/2006
Chamber 05	Peak Power Analyzer	HP	8990A	3621A01269	02/15/2005	02/15/2006
Chamber 05	Power Sensor Radar	HP	84815A	3318A01828	02/15/2005	02/15/2006
Radiation	Preamplifier 02	MITEQ	AFS44-00102650-40-10P-44	728229	01/28/2005	01/28/2006
Radiation	Preamplifier 10	MITEQ	JS-26004000-27-5A	818471	02/28/2005	02/28/2006
Radiation	High Pass Filter 01	HEWLETT-PACKARD	84300-80038	001	N/A	N/A
Radiation	High Pass Filter 02	HEWLETT-PACKARD	84300-80039	005	N/A	N/A
Radiation	Spectrum Analyzer 07	Advantest	R3182	110600649	04/21/2005	04/21/2006

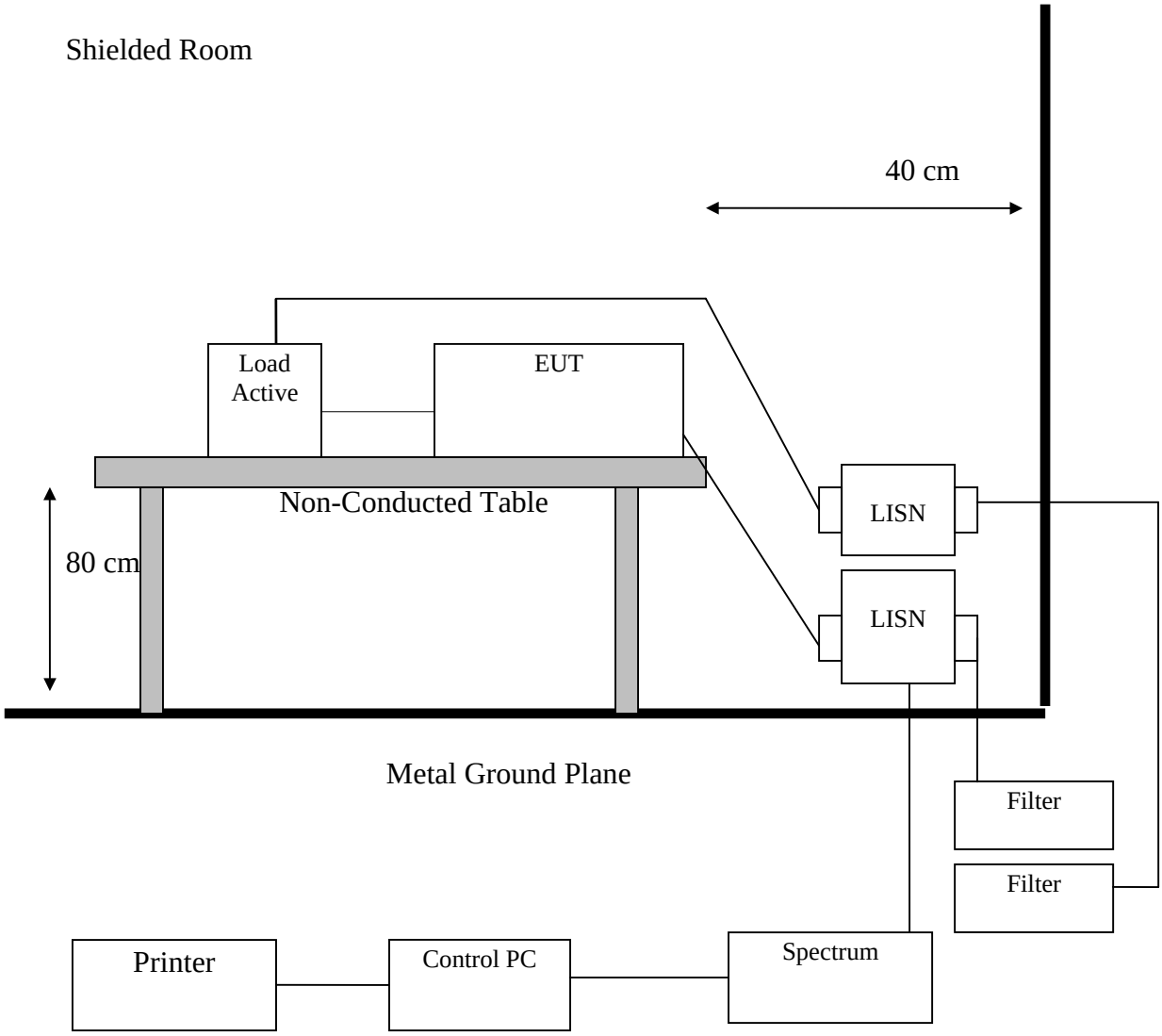
Note: Calibration is traceable to NIST or national or international standards.

7.3.2 Software for Controlling Spectrum/Receiver and Calculating Test Data

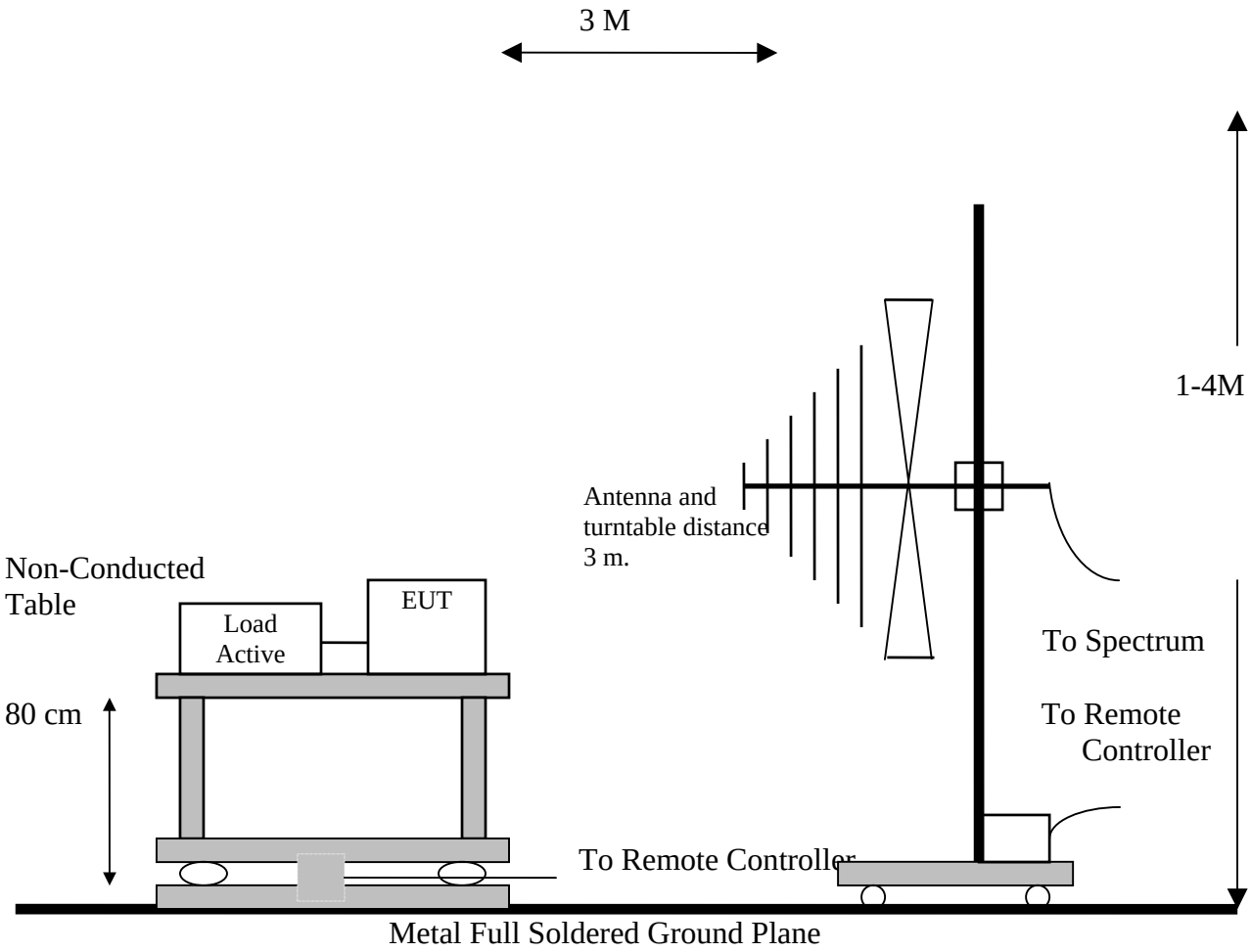
Radiation/Conduction	Filename	Version	Issued Date
Conduction	Tile.exe	1.12E	7/7/2000
Radiation	Tile.exe	1.12C	6/16/2000

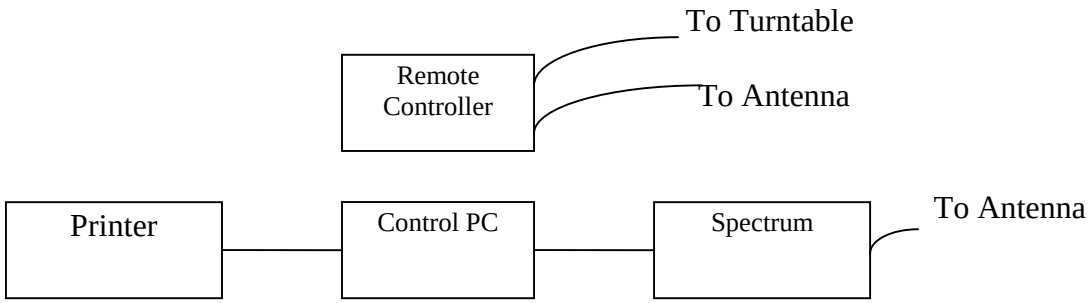
7.4 Appendix D: Layout of EUT and Support Equipment

7.4.1 General Conducted Test Configuration



7.4.2 General Radiation Test Configuration





7.5 Appendix E: Description of Support Equipment

7.5.1 Description of Support Equipment

Support Unit 1.

Description:	USB External HDD
Vendor :	TeraSys
Model:	F12-UF
Serial No.:	NA
Power Supply Type:	YHI(Model:YS-1015U12)
1394 Port:	one 6-Pins
USB:	one 4-Pins
Power In:	one
Power Line:	Non-shielded, Detachable, (Can Dismantle)

Support Unit 2.

Description:	USB External HDD
Vendor :	TeraSys
Model:	F12-UF
Serial No.:	NA
Power Supply Type:	YHI(Model:YS-1015U12)
1394 Port:	one 6-Pins
USB:	one 4-Pins
Power In:	one
Power Line:	Non-shielded, Detachable, (Can Dismantle)

Support Unit 3.

Description:	ATA Flash Card
Model Number:	VIKING 32MB
Serial Number:	N/A
Power Supply Type:	N/A
Power Cord:	N/A
FCC ID:	N/A (Comply with FCC DOC)

Support Unit 4.

Description:	DELL USB Mouse
Model Number:	M-UR69
Serial Number:	LNA24412741
Power Supply Type:	N/A
Power Cord:	N/A
FCC ID:	N/A (Comply with FCC DOC)

Support Unit 5.

Description:	DELL USB Mouse
Model Number:	M-UR69
Serial Number:	LNA24412741
Power Supply Type:	N/A
Power Cord:	N/A
FCC ID:	N/A (Comply with FCC DOC)

Support Unit 6.

Description:	KOKA Headphone
Model Number:	ST-304
Serial Number:	N/A
Power Supply Type:	N/A
Power Cord:	N/A
FCC ID:	N/A

Support Unit 7.

Description:	KOKA Microphone
Model Number:	DM-510
Serial Number:	N/A
Power Supply Type:	N/A
Power Cord:	N/A
FCC ID:	N/A

Support Unit 8.

Description:	HP Printer (for parallel interface port)
Model Number:	C2642A
Serial Number:	TH84T1N3J3
Power Supply Type:	AC Adaptor (HP Model: C2175A)
Power Cord:	Non-shielded, Detachable
Data Cable:	Shielded, Detachable, With Metal Hood
FCC ID:	B94C2642X

Support Unit 9.

Description:	Aceex Modem (for serial interface port)
Model Number:	DM1414
Serial Number:	0301000558
Power Supply Type:	Linear, Power Adapter (AC to AC Xfmr, Wall Mounted Type)
Power Cord:	Nonshielded, Without Grounding Pin
FCC ID:	IFAXDM1414

Support Unit 10.

Description:	Aceex Modem (for serial interface port)
Model Number:	DM1414
Serial Number:	0301000557
Power Supply Type:	Linear, Power Adapter (AC to AC Xfmr, Wall Mounted Type)
Power Cord:	Nonshielded, Without Grounding Pin
FCC ID:	IFAXDM1414

Support Unit 11.

Description:	DELL 19” LCD Monitor
Model:	2000FP
Serial Number:	TW-07E546-46635-314-01IL
AC Adapter:	DELL(ADP-70EB)
Power Cord:	Non-shielded, Detachable
FCC ID:	(Comply with FCC DOC)

Support Unit 12.

Description:	Philips 19” CRT Monitor
Model:	109P40
Serial Number:	BZ000421172019
Power Cord:	Non-shielded, Detachable
FCC ID:	A3KM092

Support Unit 13.

Description:	12.1” LCD display
Vendor :	MOTOROLA
Model:	MW800 3135A
Serial No.:	736SFC813
VGA Port:	one
USB:	one
Power In:	one

Support Unit 14.

Description:	12.1” LCD display
Vendor :	MOTOROLA
Model:	MW800 3134A
Serial No.:	736SFC812
VGA Port:	one
USB:	one
Power In:	one

Support Unit 15.

Description:	8.4” LCD display
Vendor :	MOTOROLA
Model:	MW800 3318A
Serial No.:	736SFC2770
VGA Port:	one
USB:	one
Power In:	one

Support Unit 16.

Description:	USB Keyboard
Vendor :	MOTOROLA
Model:	MW800 FLN9890A
Serial No.:	736SFC2702
Power Supply Type:	None
Power Line:	None

Support Unit 17.

Description:	Battery
Vendor :	ACDelco
Model:	S55B24L
Serial No.:	None
Power Supply Type:	None
Power Line:	Non-shielded, Detachable

7.5.2 Software for Controlling Support Unit

Test programs exercising various part of EUT were used. The programs were executed as follows:

A. Read and write to the disk drives.
B. R/W Hard Disk form EUT USB Port through External Hard Disk Case
C. R/W ATA Flash Card form EUT PCMCIA Port
D. Send audio signal to the headphone.
E. Receive audio signal from the microphone.
F. Send H pattern to the parallel port device (Printer).
G. Send H pattern to the serial port device (Modem).
H. Send H pattern to the video port device
(CRT Monitor) or
(LCD Monitor) or
(12.1" LCD display 1024*768) or
(12.1" LCD display 800*600) or
(8.4" LCD display 800*600)
I. Repeat the above steps.

	Filename	Issued Date
External Hard Disk Case	Winthrax.exe	5/21/1996
Modem	Hm.bat	8/20/1991
Printer1	Wordpad.exe	11/11/1999
LCD or CRT or 12.1"LCD or 12.1"LCD or 8.4"LCD Monitor	HH.bat	8/20/1991
CSR BlueSuite	Bluetest.exe	2004/04/08
CRTU2 Rev2.2.9.3000	CRTU-II.exe	2003/12/10

7.5.3 I/O Cable Condition of EUT and Support Units

Description	Path	Cable Length	Cable Type	Connector Type
AC Power Cord	110V (~240V) to EUT SPS	1.8M	Nonshielded, Detachable	Plastic Head
Modem Data Cable*2	Modem to PC COM 1 port	1.5M	Shielded, Detachable	Metal Head
Printer Data Cable	Printer to PC Parallel port	1.5M	Shielded, Detachable	Metal Head
Microphone Data Cable	Microphone to PC Microphone Port	1.5M	Nonshielded, Undetachable	Plastic Head
Headphone Data Cable	Headphone to PC Line Out Port	1.2M	Nonshielded, Undetachable	Plastic Head
USB Data Cable*2	EUT USB Port to External Hard Disk CaseUSB Port	2M	Non-shielded, Detachable	Metal Head
USB Mouse Data Cable*2	USB Mouse to PC USB Port	1.8M	Shielded, Un-detachable	Metal Head
DELL 19”LCD Monitor DVI Data Cable	LCD Monitor to EUT1 DVI Port	1.6M	Shielded, Un-detachable	Metal Head
PHILIPS19”CRT Monitor CRT Data Cable	CRT Monitor to EUT2(Office Docking) CRT Port	1.6M	Shielded, Un-detachable	Metal Head
USB Keyboard signal Cable	USB Keyboard to LCD Display USB Port	0.8M	Shielded, Un-detachable	Metal Head

Description	Path	Cable Length	Cable Type	Connector Type
DC Power Cable	Docking to Battery	6.4M	Non-shielded, Detachable	Metal Head
VGA Data Cable	LCD Display VGA Port to Motorola AUX out Cable	4.8M	Shielded, Dedetachable	Metal Head
Motorola AUX out Cable	EUT3 VGA Output port to VGA Data Cable	0.7M	Shielded, Dedetachable	Metal Head

7.6 Appendix F: Accuracy of Measurement

Test Site: Conduction 02

Item	Source of Uncertainty	Probability Distribution	Total Uncertainties (dB)		Standard Uncertainty (dB)	
1	Systematic Effects: (Assessment from 20 repeat observation; 1 reading on EUT)	Normal	k=2	0.104	k=1	0.052
2	Random Effects: (Assessment from 20 random observations; 1 reading on EUT)	Normal	k=2	0.330	k=1	0.165
3	Receiver Calibration	Rectangular	k=1.73	1.000	k=1	0.577
4	LISN Factor Calibration	Normal	k=2	1.200	k=1	0.600
5	Cable Loss Calibration	Normal	k=2	1.000	k=1	0.500
6	Combined Standard Uncertainty Uc(y)	Normal			k=1	0.850
7	**Total Uncertainty @95% mim. Confidence Level**	**Normal**	**k=2**	**1.701**		

Measurement Uncertainty Calculations:

Uc (y) = square root ($u_1 (y)^2 + u_2 (y)^2 + ...+u_n (y)^2$)

U = 2 * Uc (y)

Note: The measurement Uncertainties mentioned above also refer to NIS 81-1994 of NAMAS : The treatment of Uncertainty in EMC Measurement.

Test Site: Chamber 02-3M

Item	Source of Uncertainty	Probability Distribution	Total Uncertainties (dB)		Standard Uncertainty (dB)	
1	Systematic Effects: (Assessment from 20 repeat observation; 1 reading on EUT)	Normal	k=2	0.067	k=1	0.034
2	Random Effects: (Assessment from 20 random observations; 1 reading on EUT)	Normal	k=2	0.103	k=1	0.052
3	Receiver Calibration	Rectangular	k=1.73	1.000	k=1	0.577
4	Antenna Factor Calibration	Normal	k=2	1.700	k=1	0.850
5	Cable Loss Calibration	Normal	k=2	1.000	k=1	0.500
6	Combined Standard Uncertainty Uc(y)	Normal			k=1	1.029
7	**Total Uncertainty @95% mim. Confidence Level**	**Normal**	**k=2**	**2.059**		

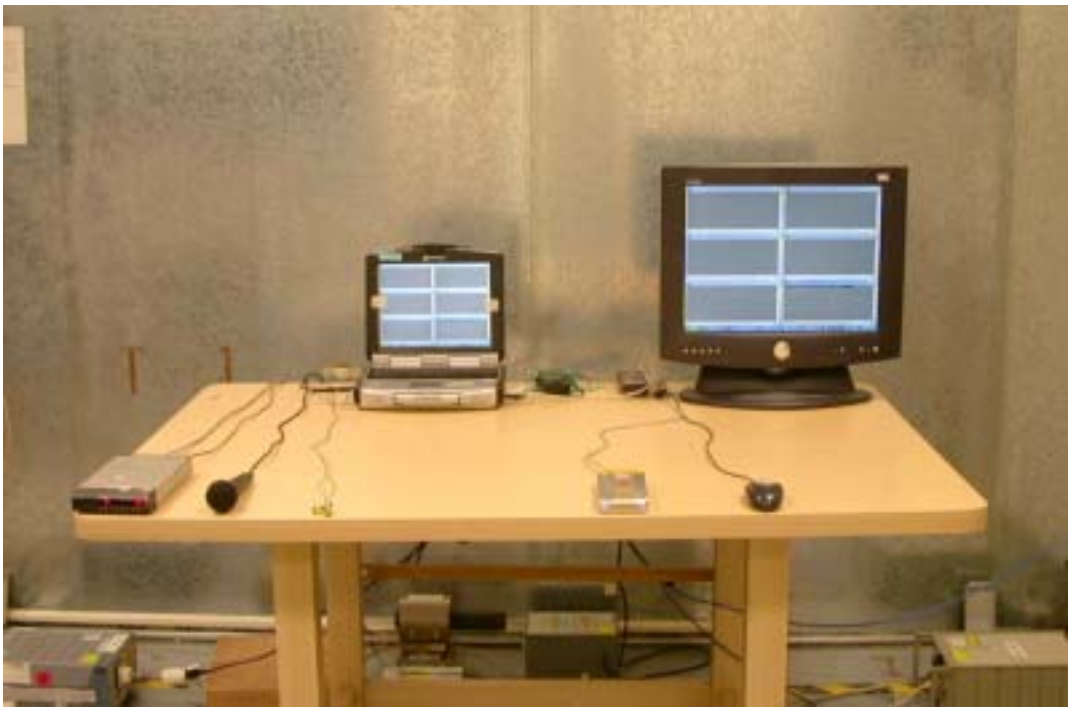
Measurement Uncertainty Calculations:

Uc (y) = square root (u_1 (y)^2 + u_2 (y)^2 + ...+u_n (y)^2)

U = 2 * Uc (y)

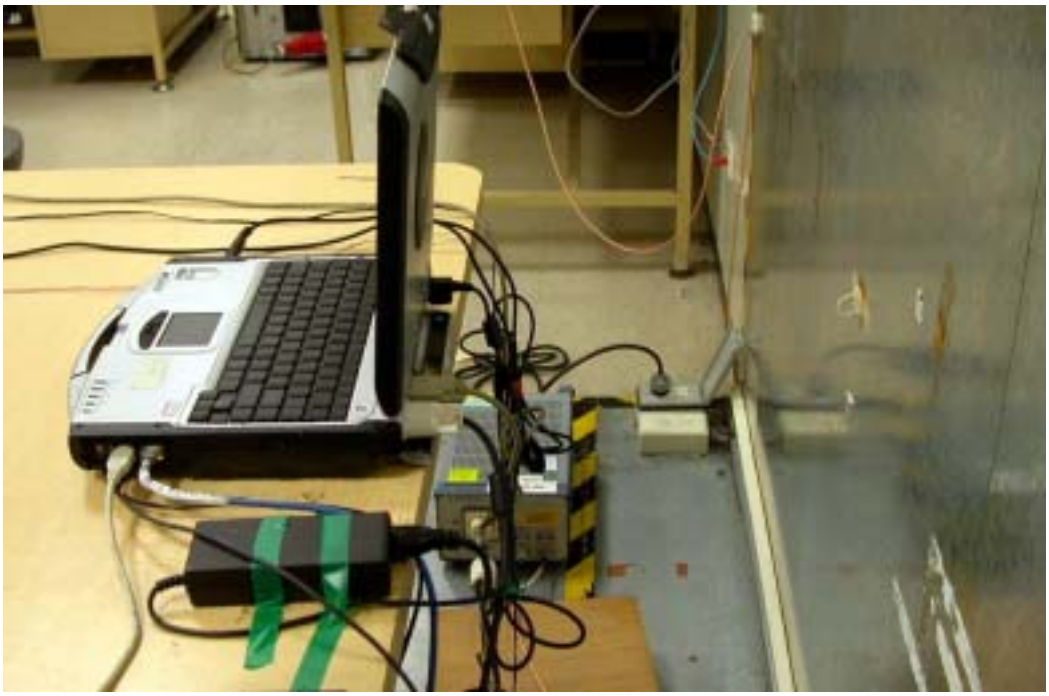
Note: The measurement Uncertainties mentioned above also refer to NIS 81-1994 of NAMAS : The treatment of Uncertainty in EMC Measurement.

7.7 Appendix G: Photographs of EUT Configuration Test Set Up



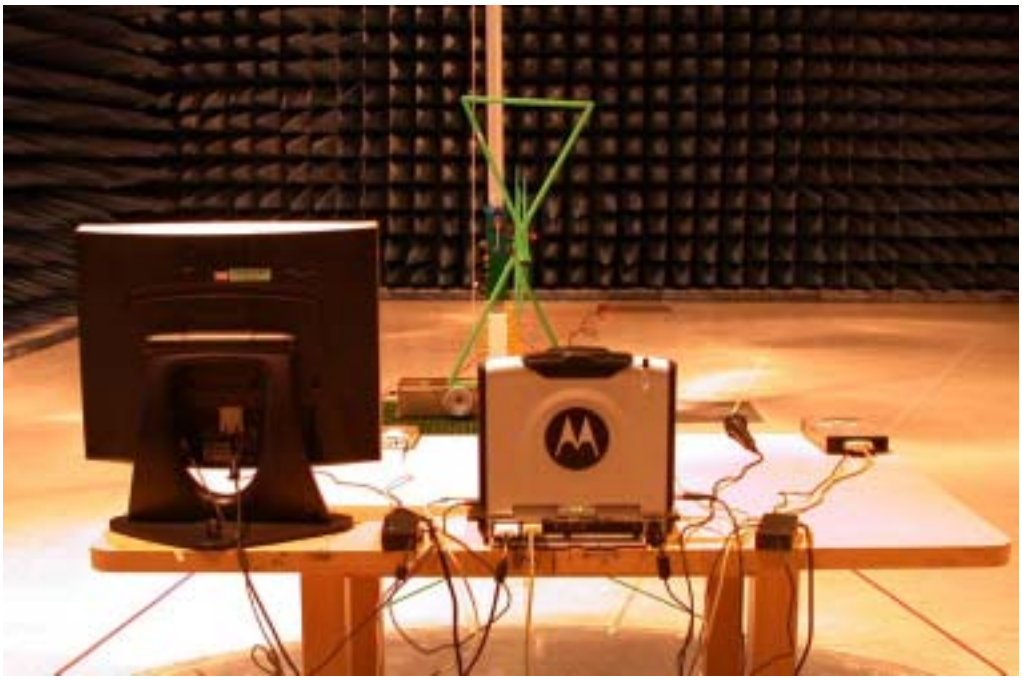
The Front View of Highest Conducted Set-up For EUT

The Back View of Highest Conducted Set-up For EUT



The Front View of Highest Radiated Set-up For EUT

The Back View of Highest Radiated Set-up For EUT



7.8 Appendix H: Antenna Spec.

Please refer to the attached file.