



6.2 Radiated Emission Measurement

6.2.1 Test instruments

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
HP Spectrum Analyzer	8590L	3544A01176	Apr 18, 2001
HP Preamplifier	8447D	2944A08485	Oct. 23, 2000
HP Preamplifier	8347A	3307A01088	Sep. 04, 2001
ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Aug. 3, 2001
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 25, 2000
CHASE BILOG Antenna	CBL6112A	2221	Aug. 4, 2001
SCHWARZBECK Horn Antenna	BBHA9120-D	D130	Jul. 9, 2001
SCHWARZBECK Horn Antenna	BBHA9170	123	Jan. 30, 2001
EMCO Turn Table	1060	1115	N/A
SHOSHIN Tower	AP-4701	A6Y005	N/A
Open Field Test Site	Site 5	ADT-R05	Aug. 08, 2001

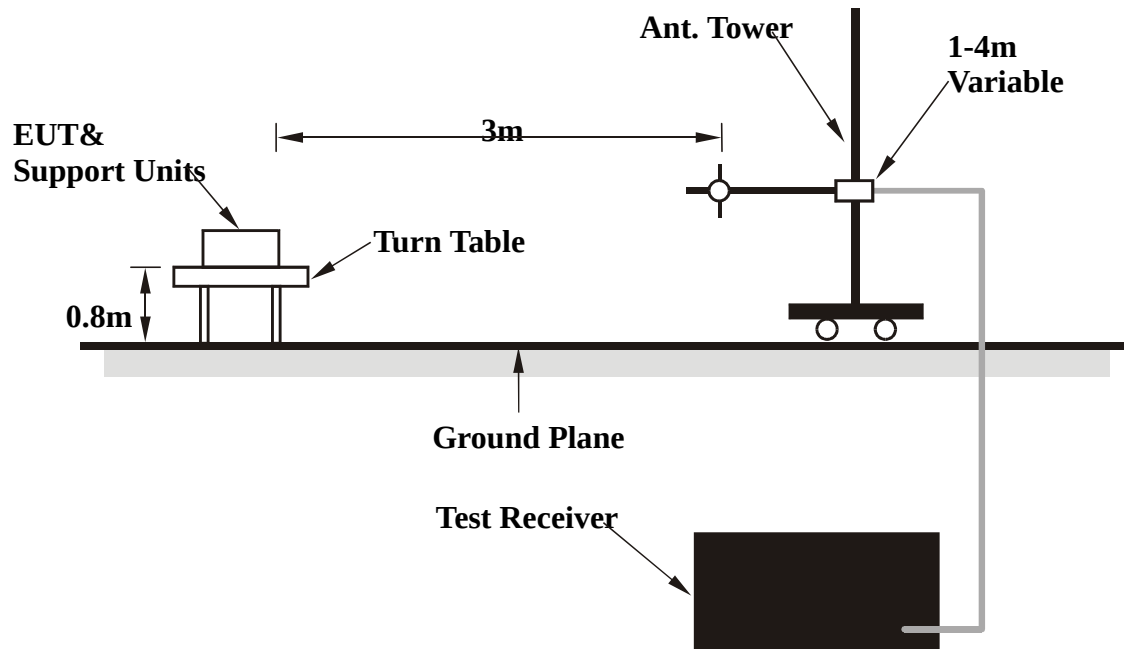
The measurement uncertainty is less than +/- 3dB, which is calculated as per NAMAS document NIS81.



6.2.2 Test Procedures

- a. The EUT was placed on the turn table 0.8 meter above ground in 3 meter open area test site.
- b. Set the resolution bandwidth to 120KHz in the test receiver and select Peak function to scan the frequency below 1 GHz.
- c. Shift the interference-receiving antenna located in antenna tower upwards and downwards between 1 and 4 meters above ground and find out the local peak emission on frequency domain.
- d. Locate the interference-receiving antenna at the position where the local peak reach the maximum emission.
- e. Rotate the turn table and stop at the angle where the measurement device has maximum reading
- f. Shift the interference-receiving antenna again to detect the maximum emission of the local peak
- g. If the reading of the local peak under Peak function is lower than limit by 6dB, then Quasi Peak detection is not needed and this reading should be recorded. And if it is higher than Peak limit, then the test is fail. Others, switch the receiver to Quasi Peak function, set the resolution bandwidth to 100kHz and repeat the procedures C ~ F. If the reading is lower than limit, this reading should be recorded, otherwise, the test is fail.
- h. Set the resolution and video bandwidth of the spectrum analyzer to 1MHz and repeat procedures C ~ F for frequency band from 1 GHz to 10 times carrier frequency.
- i. If the reading for the local peak is lower than the Average limit, no further testing is needed in this local peak and this reading should be recorded. If it is higher than Average limit but lower than Peak limit, then set the resolution bandwidth to 1MHz and video bandwidth to 300Hz. Repeat procedures C ~ F. If the maximum reading is lower than Average limit, then this reading should be recorded. If it is higher, then the test is fail.

6.2.3 Test Setup



6.2.4 Photograph of Test Setup

Model: GL2411AP



Model: WAP11





6.2.5 EUT Operating Condition

1. Place the EUT on the turn table.
2. Connect antenna with antenna port.
3. Use RJ45 cable to connect PC and EUT.
4. Power on.
5. Prepare the same setup as above, but place it outside testing area.
6. Send data to EUT (on the turn table) by command "PIN".
7. The linkage of these two PC have been established when the address of the other PC is shown on the monitor.
8. Rotate the turn table and scan the antenna mast to detect the maximum emission.

6.2.6 Climate Condition

The temperature and related humidity is 23°C and 70%.



6.2.7 Test Results

6.2.7.1 Digital Portion

Model: GL2411AP

Channel:11 ANTENNA POLARITY: Vertical		Detector Function : Quasi-Peak		6dB Bandwidth : 120 kHz.		Distance : 3 M Frequency Range : 30 – 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
528.00	20.7	12.9	33.6	46.0	-12.4	146	6
616.00	21.3	11.2	32.5	46.0	-13.5	207	171
704.00	22.5	9.8	32.3	46.0	-13.7	183	279
748.00	23.0	14.5	37.5	46.0	-8.5	172	211
758.98	23.1	14.6	37.7	46.0	-8.3	163	34
880.00	24.2	13.4	37.6	46.0	-8.4	151	266

- Remarks:**
1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247

Channel:11 ANTENNA POLARITY: Horizontal		Detector Function : Quasi-Peak		6dB Bandwidth : 120 kHz.		Distance : 3 M Frequency Range : 30 – 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
528.00	20.7	10.3	31.0	46.0	-15.0	140	53
616.00	21.3	10.0	31.3	46.0	-14.7	107	9
704.00	22.5	8.3	30.8	46.0	-15.2	112	316
759.00	23.1	11.3	34.4	46.0	-11.6	123	84
836.00	23.7	10.5	34.2	46.0	-11.8	111	64
880.00	24.2	10.6	34.8	46.0	-11.2	128	296

Remarks: 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value
5. The limit value is defined as per 15.247

**Model: WAP11**

Channel:11 ANTENNA POLARITY: Vertical		Detector Function : Quasi-Peak		6dB Bandwidth : 120 kHz.		Distance : 3 M Frequency Range : 30 – 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
400.94	18.8	17.0	35.8	46.0	-10.2	105	156
527.98	20.7	9.3	30.0	46.0	-16.0	171	325
599.88	21.3	22.3	43.6	46.0	-2.4	100	119
616.01	21.3	8.4	29.7	46.0	-16.3	100	149
660.01	21.6	8.8	30.4	46.0	-15.6	100	95
704.03	22.5	10.0	32.5	46.0	-13.5	166	179
748.00	23.0	9.4	32.4	46.0	-13.6	154	199
791.99	23.2	8.2	31.4	46.0	-14.6	138	165
836.01	23.7	7.8	31.5	46.0	-14.5	142	196
858.02	23.9	9.6	33.5	46.0	-12.5	131	135

- Remarks:** 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value
5. The limit value is defined as per 15.247

Channel:11 ANTENNA POLARITY: Horizontal		Detector Function : Quasi-Peak		6dB Bandwidth : 120 kHz.		Distance : 3 M Frequency Range : 30 – 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
437.90	19.2	14.2	33.4	46.0	-12.6	137	75
499.97	20.6	14.5	35.1	46.0	-10.9	110	296
597.25	21.2	21.7	42.9	46.0	-3.1	163	187
616.00	21.3	9.1	30.4	46.0	-15.6	158	95
660.00	21.6	8.8	30.4	46.0	-15.6	144	156
704.00	22.5	10.8	33.3	46.0	-12.7	149	162
748.00	23.0	8.9	31.9	46.0	-14.1	130	197

Remarks: 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value
5. The limit value is defined as per 15.247

6.2.7.2 RF Portion

Model: GL2411AP

Channel 1 ANTENNA POLARITY: Vertical		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2038.00	34.5	14.0	-	48.5	-	74.0	54.0	-25.5	-	100	79
*2413.50	36.1	72.0	65.0	108.1	101.1	-	-	-	-	102	206
4076.00	43.1	11.2	8.0	54.3	51.1	74.0	54.0	-19.7	-2.9	100	261
4824.00	43.8	10.2	-	54.0	-	74.0	54.0	-20.0	-	110	18
6114.00	40.1	9.4	-	49.5	-	74.0	54.0	-24.5	-	101	139
8152.00	42.2	9.2	-	51.4	-	74.0	54.0	-22.6	-	100	289
10190.00	42.8	9.2	-	52.0	-	74.0	54.0	-22.0	-	104	149
12228.00	44.5	9.0	-	53.5	-	74.0	54.0	-20.5	-	100	358

Channel 1 ANTENNA POLARITY: Horizontal		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2038.00	34.5	14.2	-	48.7	-	74.0	54.0	-25.3	-	110	171
*2413.50	36.1	62.8	54.6	98.9	90.7	-	-	-	-	141	121
4076.00	43.1	11.8	9.9	54.9	53.0	74.0	54.0	-19.1	-1.0	149	39
4824.00	43.8	10.9	9.9	54.7	53.7	74.0	54.0	-19.3	-0.3	100	207
6114.00	40.1	9.5	-	49.6	-	74.0	54.0	-24.4	-	107	147
8152.00	42.2	9.2	-	51.4	-	74.0	54.0	-22.6	-	100	270
10191.00	42.8	9.1	-	51.9	-	74.0	54.0	-22.1	-	105	110
12228.00	44.5	9.1	-	53.6	-	74.0	54.0	-20.4	-	100	352

- Remarks:**
1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental Frequency

Channel 6 ANTENNA POLARITY: Vertical		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2063.00	34.8	12.2	-	47.0	-	74.0	54.0	-27.0	-	112	62
*2438.50	36.4	73.5	65.4	109.9	101.8	-	-	-	-	100	193
4126.50	42.7	10.0	-	52.7	-	74.0	54.0	-21.3	-	100	216
4874.00	43.6	9.3	-	52.9	-	74.0	54.0	-21.1	-	100	303
6189.00	41.0	9.0	-	49.0	-	74.0	54.0	-25.0	-	104	291
8252.00	42.0	9.4	-	51.4	-	74.0	54.0	-22.6	-	100	187
10315.00	42.9	9.2	-	52.1	-	74.0	54.0	-21.9	-	101	325
12378.00	44.4	9.0	-	53.4	-	74.0	54.0	-20.6	-	100	92

Channel 6 ANTENNA POLARITY: Horizontal		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2063.00	34.8	12.0	-	46.8	-	74.0	54.0	-27.2	-	100	55
*2438.50	36.4	64.1	56.3	100.5	92.7	-	-	-	-	100	204
4126.00	42.7	9.6	-	52.3	-	74.0	54.0	-21.7	-	100	212
4874.00	43.6	9.5	-	53.1	-	74.0	54.0	-20.9	-	101	158
6189.00	40.1	9.1	-	49.1	-	74.0	54.0	-24.9	-	102	272
8252.00	42.0	9.3	-	51.3	-	74.0	54.0	-22.7	-	100	145
10315.00	42.9	9.2	-	52.1	-	74.0	54.0	-21.9	-	103	100
12378.00	44.4	9.0	-	53.4	-	74.0	54.0	-20.6	-	100	310

- Remarks:**
1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. “ * “ : Fundamental Frequency

Channel 11 ANTENNA POLARITY: Vertical		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2088.00	35.1	11.4	-	46.5	-	74.0	54.0	-27.5	-	112	353
*2463.50	36.4	70.5	63.4	106.9	99.8	-	-	-	-	104	202
4176.10	42.7	11.6	8.0	54.3	50.7	74.0	54.0	-19.7	-3.3	105	223
4924.00	43.4	10.0	-	53.4	-	74.0	54.0	-20.6	-	100	93
6264.00	40.2	10.2	-	50.4	-	74.0	54.0	-23.6	-	100	328
8352.00	42.0	9.4	-	51.4	-	74.0	54.0	-22.6	-	103	100
10440.00	43.0	9.2	-	52.2	-	74.0	54.0	-21.8	-	100	242
12528.00	44.9	9.0	-	53.9	-	74.0	54.0	-20.1	-	100	79

Channel 11 ANTENNA POLARITY: Horizontal		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2088.00	35.1	11.2	-	46.3	-	74.0	54.0	-27.7	-	100	94
*2462.00	36.4	62.5	55.5	98.9	91.9	-	-	-	-	125	204
4176.00	42.7	11.0	-	53.7	-	74.0	54.0	-20.3	-	100	263
4924.00	43.4	10.1	-	53.5	-	74.0	54.0	-20.5	-	100	132
6264.00	40.2	10.4	-	50.6	-	74.0	54.0	-23.4	-	102	92
8352.00	42.0	9.2	-	51.2	-	74.0	54.0	-22.8	-	100	300
10440.00	43.0	9.2	-	52.2	-	74.0	54.0	-21.8	-	101	172
12528.00	44.9	9.0	-	53.9	-	74.0	54.0	-20.1	-	110	257

- Remarks:**
1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. “ * “ : Fundamental Frequency

Model: WAP11

Channel 1 ANTENNA POLARITY: Vertical		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2038.00	34.5	14.2	-	48.7	-	74.0	54.0	-25.3	-	105	109
*2412.50	36.1	71.4	64.1	107.5	100.2	-	-	-	-	101	139
4076.00	43.1	10.7	-	53.8	-	74.0	54.0	-20.2	-	100	365
4824.20	43.8	10.0	-	53.8	-	74.0	54.0	-20.2	-	100	294
6114.00	40.1	9.3	-	49.4	-	74.0	54.0	-24.6	-	102	298
8152.00	42.2	9.2	-	51.4	-	74.0	54.0	-22.6	-	103	147
10190.00	42.8	9.2	-	52.0	-	74.0	54.0	-22.0	-	100	289
12228.00	44.5	9.0	-	53.5	-	74.0	54.0	-20.5	-	104	102

Channel 1 ANTENNA POLARITY: Horizontal		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2038.00	34.5	14.1	-	48.6	-	74.0	54.0	-25.4	-	104	343
*2413.50	36.1	70.1	62.0	106.2	98.1	-	-	-	-	103	174
4076.00	43.1	10.7	-	53.8	-	74.0	54.0	-20.2	-	100	239
4824.00	43.8	10.0	-	53.8	-	74.0	54.0	-20.2	-	103	108
6114.00	40.1	9.4	-	49.5	-	74.0	54.0	-24.5	-	102	270
8152.00	42.2	9.2	-	51.4	-	74.0	54.0	-22.6	-	100	140
10191.00	42.8	9.2	-	52.0	-	74.0	54.0	-22.0	-	112	79
12228.00	44.5	9.0	-	53.5	-	74.0	54.0	-20.5	-	107	297

Remarks: 1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).

2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)

3. The other emission levels were very low against the limit.

4. Margin value = Emission level - Limit value

5. The limit value is defined as per 15.247

6. “ * “ : Fundamental Frequency

Channel 6 ANTENNA POLARITY: Vertical		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2063.00	34.8	14.1	-	48.9	-	74.0	54.0	-25.1	-	100	107
*2437.56	36.3	72.5	65.5	108.8	101.8	-	-	-	-	100	365
4126.00	42.7	10.1	-	52.8	-	74.0	54.0	-21.2	-	104	145
4874.20	43.6	9.5	-	53.1	-	74.0	54.0	-20.9	-	100	107
6189.00	40.0	9.4	-	49.4	-	74.0	54.0	-24.6	-	107	270
8252.00	42.0	9.2	-	51.2	-	74.0	54.0	-22.8	-	100	179
10315.00	42.9	9.2	-	52.1	-	74.0	54.0	-21.9	-	105	70
12378.00	44.4	9.1	-	53.5	-	74.0	54.0	-20.5	-	101	279

Channel 6 ANTENNA POLARITY: Horizontal		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2063.00	34.8	14.1	-	48.9	-	74.0	54.0	-25.1	-	100	217
*2437.55	36.3	67.2	61.1	103.5	97.4	-	-	-	-	104	145
4126.00	42.7	9.6	-	52.3	-	74.0	54.0	-21.7	-	100	217
4874.20	43.6	9.5	-	53.1	-	74.0	54.0	-20.9	-	100	217
6189.00	40.0	9.2	-	49.2	-	74.0	54.0	-24.8	-	100	362
8252.00	42.0	9.2	-	51.2	-	74.0	54.0	-22.8	-	104	172
10315.00	42.9	9.2	-	52.1	-	74.0	54.0	-21.9	-	105	74
12378.00	44.4	9.0	-	53.4	-	74.0	54.0	-20.6	-	104	340

- Remarks:**
1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. “ * “ : Fundamental Frequency

Channel 11 ANTENNA POLARITY: Vertical		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2088.00	35.1	12.6	-	47.7	-	74.0	54.0	-26.3	-	101	225
*2462.00	36.4	69.8	62.0	106.2	98.4	-	-	-	-	106	147
4176.10	42.7	10.1	-	52.8	-	74.0	54.0	-21.2	-	111	365
4924.20	43.4	9.9	-	53.3	-	74.0	54.0	-20.7	-	100	226
6264.00	40.0	8.9	-	52.9	-	74.0	54.0	-21.1	-	100	238
8352.00	42.0	9.2	-	51.2	-	74.0	54.0	-22.8	-	102	149
10440.00	43.0	9.4	-	52.4	-	74.0	54.0	-21.6	-	100	76
12528.00	44.9	9.5	-	54.4	-	74.0	54.0	-19.1	-	103	362
12528.00	44.9	-	8.0	-	52.9	74.0	54.0	-	-1.1	100	250

Channel 11 ANTENNA POLARITY: Horizontal		Detector Function : Peak Average				6dB Bandwidth : 1 MHz.				Distance : 3 M Frequency Range : Above 1000 MHz.	
Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)		Antenna Height (cm)	Table Angle (Degree)
		P.K.	A.V.	P.K.	A.V.	P.K.	A.V.	P.K.	A.V.		
2088.00	35.1	13.2	-	48.3	-	74.0	54.0	-25.7	-	105	281
*2462.00	36.4	65.2	57.6	101.6	94.0	-	-	-	-	106	147
4176.00	42.7	10.6	-	53.3	-	74.0	54.0	-20.7	-	101	167
4924.00	43.4	9.9	-	53.3	-	74.0	54.0	-20.7	-	119	210
6264.00	40.0	8.7	-	48.7	-	74.0	54.0	-25.3	-	100	189
8352.00	42.0	9.4	-	51.4	-	74.0	54.0	-22.6	-	100	37
10440.00	43.0	9.8	-	52.8	-	74.0	54.0	-21.2	-	100	223
12528.00	44.9	9.6	8.0	54.5	52.9	74.0	54.0	-19.5	-1.1	100	94

- Remarks:**
1. Emission level (dBuV/m) = Correction Factor (dB) + Reading value (dBuV).
 2. Correction Factor (dB) = Ant. Factor (dB)+Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental Frequency

6.3 6dB Bandwidth Measurement

6.3.1 Test Instruments

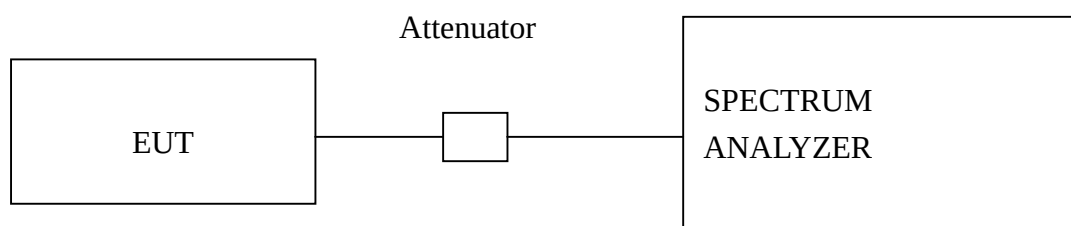
Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ROHDE & SCHWARZ TEST RECEIVER	ESMI	846839/018 848926/005	Mar. 03, 2001
HP ATTENUATOR	8496B	3247A18505	Cal. on use
HP PLOTTER	7475A	2641V27755	N/A

The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMAS document NIS81.

6.3.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 100 kHz RBW and 100 kHz VBW. The 6 dB bandwidth is defined as the total spectrum whose power is larger than peak power minus 6 dB.

6.3.3 Test Setup



6.3.4 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.



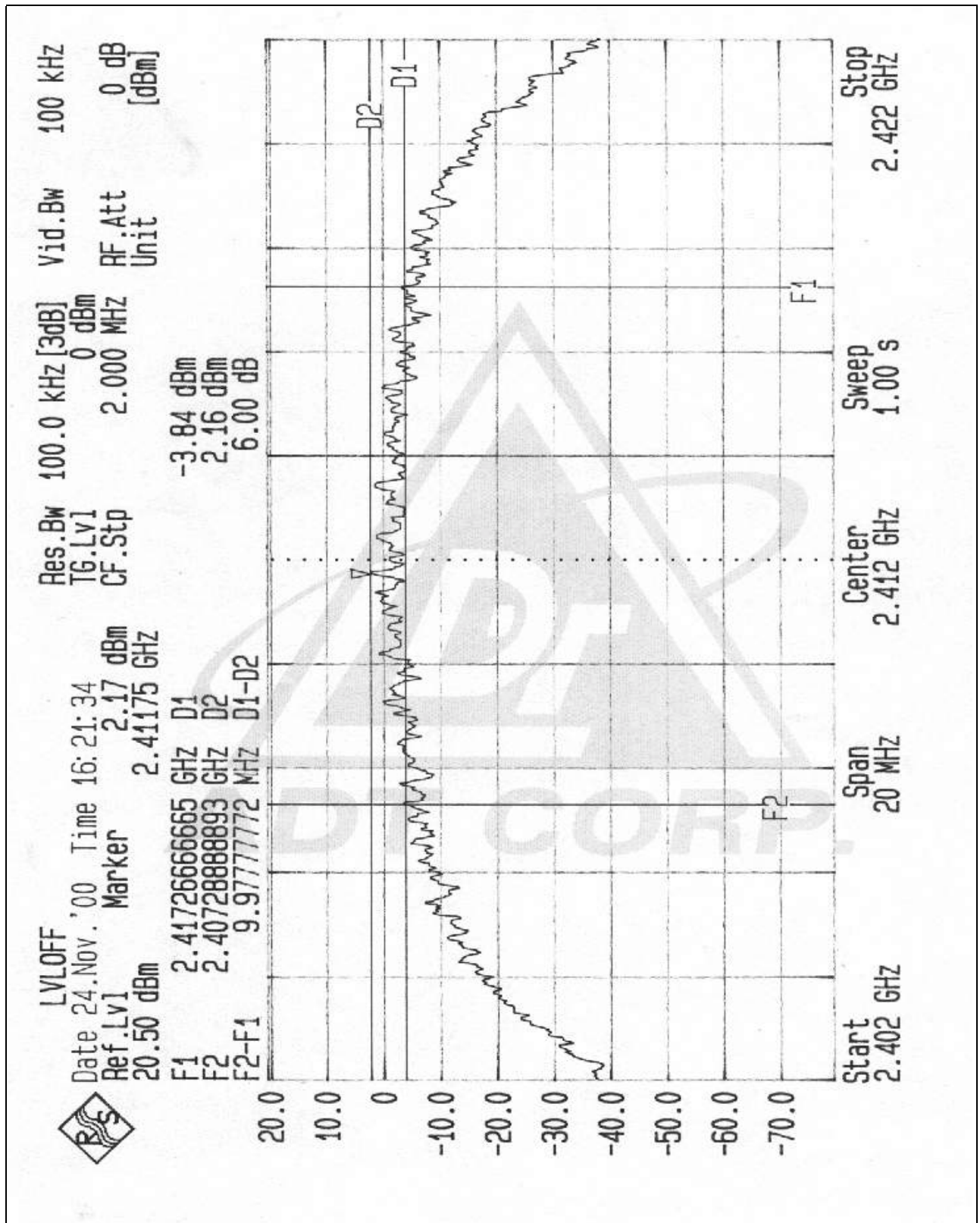
6.3.5 Climate Condition

The temperature and related humidity is 18°C and 78%.

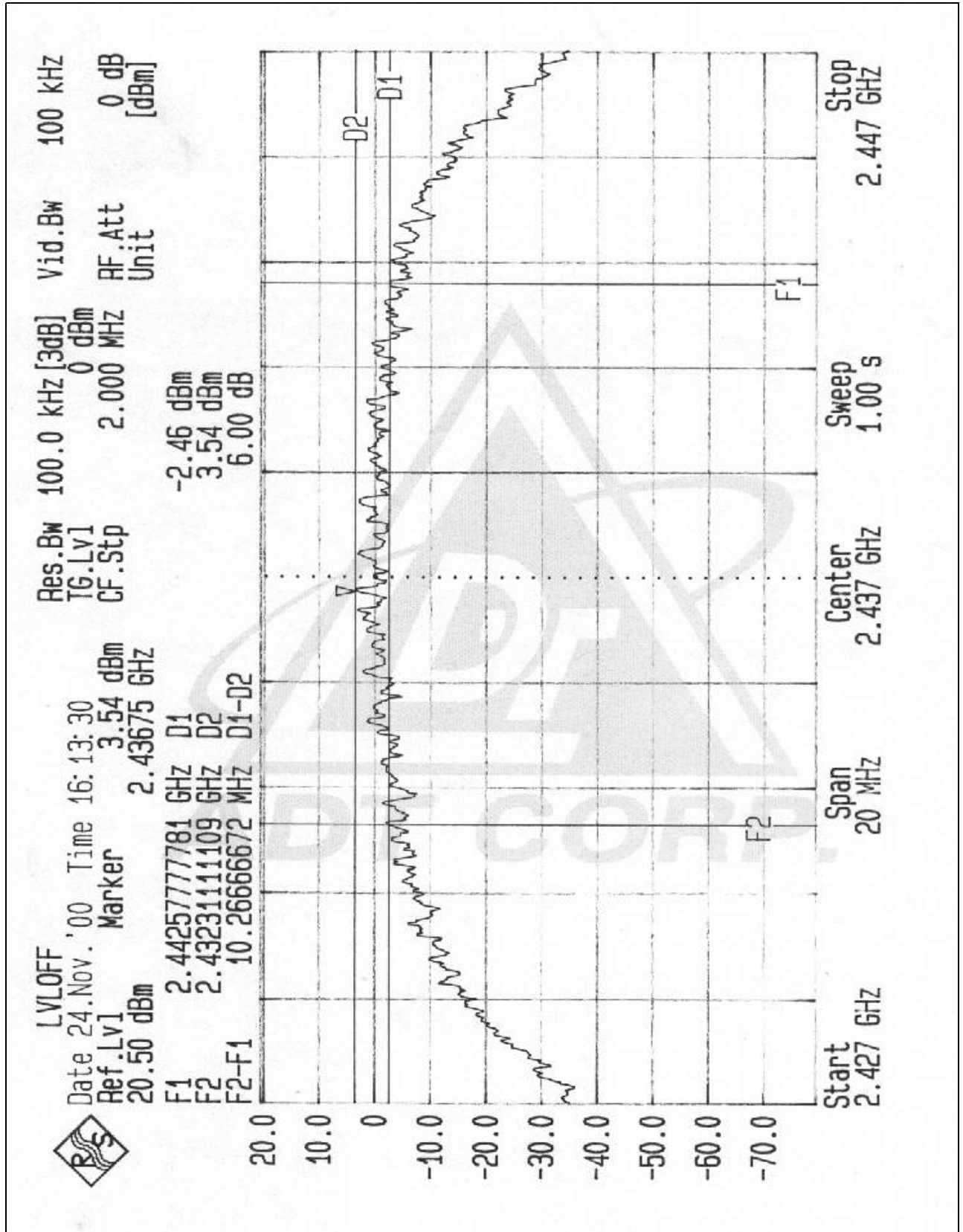
6.3.6 Test Results

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	9.98	0.5	PASS
6	2437	10.27	0.5	PASS
11	2462	10.02	0.5	PASS

CH1



CH6



CH11

