ADT CORP.

FCC TEST REPORT

REPORT NO.: RF910304R01
MODEL NO.: BT-0030H
BT007
RECEIVED: Mar. 4, 2002
TESTED: Mar. 5 ~ Mar. 6, 2002

APPLICANT: CC&C TECHNOLOGIES INC.
ADDRESS: 8F, NO. 150, CHIEN 1 ROAD, CHUNG HO CITY, TAIPEI, TAIWAN, R.O.C.

ISSUED BY: Advance Data Technology Corporation
LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei, Taiwan, R.O.C.

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NVLAP®
Lab Code: 200102-0

TABLE OF CONTENTS

1 CERTIFICATION....4
2 SUMMARY OF TEST RESULTS....5
3 GENERAL INFORMATION....6
3.1 GENERAL DESCRIPTION OF EUT....6
3.2 DESCRIPTION OF TEST MODES....7
3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS....7
3.4 DESCRIPTION OF SUPPORT UNITS....8
4 TEST PROCEDURES AND RESULTS....9
4.1 CONDUCTED EMISSION MEASUREMENT....9
4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT....9
4.1.2 TEST INSTRUMENTS....9
4.1.3 TEST PROCEDURES....10
4.1.4 TEST SETUP....10
4.1.5 TEST RESULTS....11
4.2 NUMBER OF HOPPING FREQUENCY USED....17
4.2.1 LIMIT OF HOPPING FREQUENCY USED....17
4.2.2 TEST INSTRUMENTS....17
4.2.3 TEST PROCEDURES....18
4.2.4 TEST SETUP....18
4.2.5 TEST RESULTS....18
4.3 DWELL TIME ON EACH CHANNEL....21
4.3.1 LIMIT OF DWELL TIME USED....21
4.3.2 TEST INSTRUMENTS....21
4.3.3 TEST PROCEDURES....22
4.3.4 TEST SETUP....22
4.3.5 TEST RESULTS....23
4.4 CHANNEL BANDWIDTH....27
4.4.1 LIMITS OF CHANNEL BANDWIDTH....27
4.4.2 TEST INSTRUMENTS....27
4.4.3 TEST PROCEDURE....28
4.4.4 TEST SETUP....28
4.4.5 EUT OPERATING CONDITION....28
4.4.6 TEST RESULTS....29
4.5 HOPPING CHANNEL SEPARATION....33

4.5.1 LIMIT OF HOPPING CHANNEL SEPARATION 33
4.5.2 TEST INSTRUMENTS 33
4.5.3 TEST PROCEDURES 34
4.5.4 TEST SETUP 34
4.5.5 TEST RESULTS 34
4.6 MAXIMUM PEAK OUTPUT POWER 38
4.6.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT 38
4.6.2 INSTRUMENTS.....38
4.6.3 TEST PROCEDURES 39
4.6.4 TEST SETUP 39
4.6.5 EUT OPERATING CONDITION 39
4.6.6 TEST RESULTS 40
4.7 RADIATED EMISSION MEASUREMENT 44
4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT 44
4.7.2 TEST INSTRUMENTS 45
4.7.3 TEST PROCEDURES 46
4.7.4 TEST SETUP 47
4.7.5 TEST RESULTS 48
4.7.6 TEST RESULTS 49
4.8 BAND EDGES MEASUREMENT 52
4.8.1 LIMITS OF BAND EDGES MEASUREMENT 52
4.8.2 TEST INSTRUMENTS 52
4.8.3 TEST PROCEDURE 52
4.8.4 EUT OPERATING CONDITION 53
4.8.5 TEST RESULTS 53
4.9 ANTENNA REQUIREMENT 56
4.9.1 STANDARD APPLICABLE 56
4.9.2 ANTENNA CONNECTED CONSTRUCTION 56
5 PHOTOGRAPHS OF THE TEST CONFIGURATION.....57
6 INFORMATION ON THE TESTING LABORATORIES 59

1 CERTIFICATION

PRODUCT :	Bluetooth USB Dongle
BRAND NAME :	CC&C
MODEL NO. :	BT-0030H, BT007
APPLICANT :	CC&C TECHNOLOGIES INC.
STANDARDS :	47 CFR Part 15, Subpart C (Section 15.247), ANSI C63.4-1992, Canada RSS 210, New Zealand RFS 29

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from Mar. 5, 2002 to Mar. 6, 2002,
The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

TESTED BY: Gary Chang , DATE: Mar. 11, 2002
Gary Chang

CHECKED BY: Demi Chen , DATE: Mar. 11, 2002
Demi Chen

APPROVED BY: Alan Lane , DATE: Mar. 11, 2002
Dr. Alan Lane
Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
Standard Section	**Test Type and Limit**	**Result**	**REMARK**
15.207	AC Power Conducted Emission Limit: 48dBuV	PASS	Meet the requirement of limit Minimum passing margin is –15.68 dBuV at 3.625 MHz
15.247(a)(1)(I)-(ii)	Number of Hopping Frequency Used Spec.:At least 75 channels	PASS	Meet the requirement of limit
15.247(a)(1)(ii)	Dwell Time on Each Channel Spec. : Max. 0.4 second within 30 second	PASS	Meet the requirement of limit
15.247(a)(1)(I)-(ii)	Hopping Channel Separation Spec. : Min. 25 kHz or 20 dB bandwidth	PASS	Meet the requirement of limit
15.247(a)(2)	Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System Spec.: Max. 1 MHz	PASS	Meet the requirement of limit
15.247(b)	Maximum Peak Output Power Spec.: max. 30dBm	PASS	Meet the requirement of limit
15.247(c)	Transmitter Radiated Emissions Spec.: Table 15.209	PASS	Meet the requirement of limit Minimum passing margin is –3.6 dBuV at 120.0MHz
15.247(c)	Band Edge Measurement	PASS	Meet the requirement of limit

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Bluetooth USB Dongle
MODEL NO.	BT-0030H, BT007
POWER SUPPLY	5.0VDC from host equipment
MODULATION TYPE	FHSS (GFSK)
FREQUENCY RANGE	2402MHz ~ 2480MHz
NUMBER OF CHANNEL	79
OUTPUT POWER	+10.01dBm
ANTENNA TYPE	Printed Antenna
DATA CABLE	0.6m (shielded)
I/O PORTS	USB port
ASSOCIATED DEVICES	NA

NOTE: For a more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

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

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Bluetooth USB Dongle. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC CFR 47 Part 15, Subpart C. (15.247)
ANSI C63.4 : 1992, Canada RSS 210, New Zealand RFS 29

All tests have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	PP01L	TW-09C748-12800-19O-B220	FCC DoC APPROVED
2	PRINTER	HP	2225C+	3123S97230	DSI6XU2225
3	MODEM	ACEEX	1414	980020510	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core.
3	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.

NOTE: All power cords of the above support units are non shielded (1.8m).

4 TEST PROCEDURES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.45 – 30	48	-	48	-

Notes:

1. The lower limit shall apply at the transition frequencies.
1. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS30	845552/004	May. 22, 2002
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH2-Z5	828075/003	July 19, 2002
ROHDE & SCHWARZ 200-A Four-line V-Network	ENV4200	830326/018	Oct. 25, 2002
* ROHDE & SCHWARZ 4-wire ISN	ENY41	838119/028	Dec. 2, 2002
* ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/018	Dec. 2, 2002
EMCO-L.I.S.N. (for peripheral)	3825/2	90031627	July 19, 2002
Software	Cond-V2L	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C05.01	July 19, 2002
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-305	Feb. 20, 2003
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-306	Feb. 20, 2003
Shielded Room	Site 5	ADT-C05	NA
VCCI Site Registration No.	Site 5	C-1093	NA

NOTE: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

3. "*": These equipment are used for conducted telecom port test only (if tested).

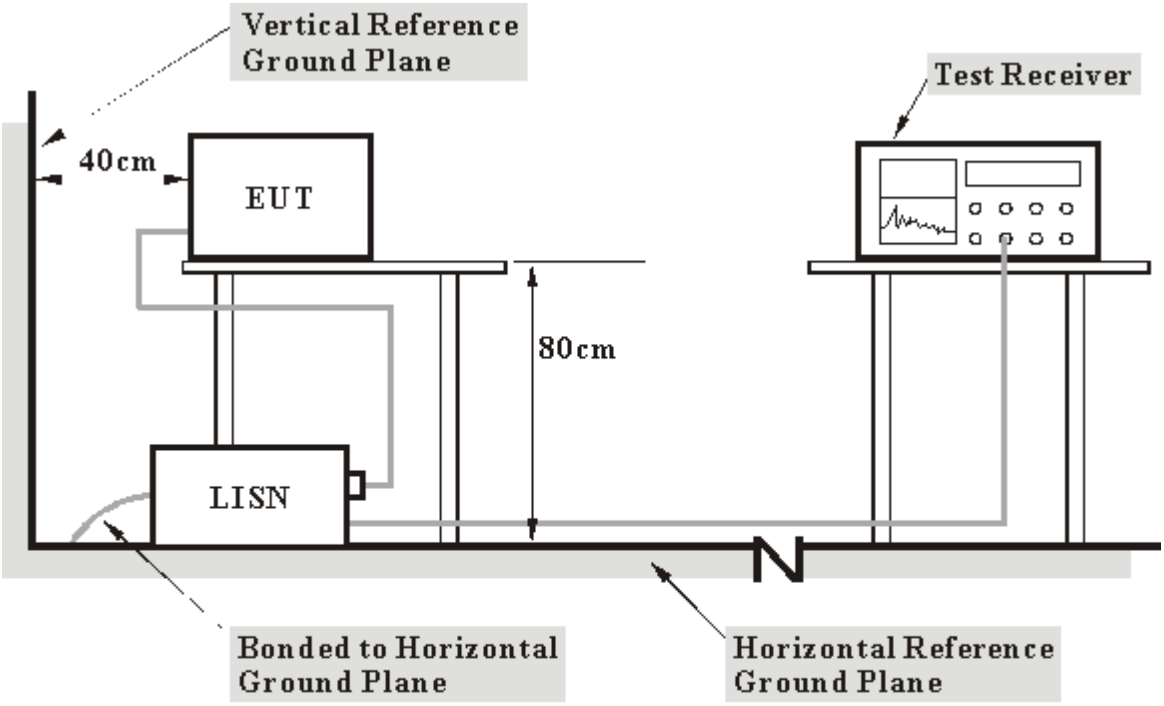
4.1.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 450 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

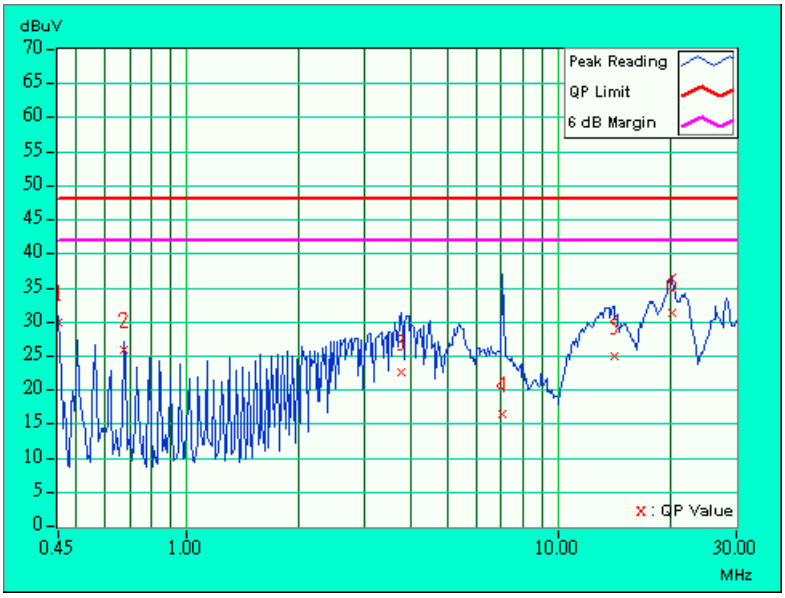
4.1.5 TEST RESULTS

EUT	Bluetooth USB Dongle	**MODEL**	BT-0030H
MODE	Channel 0	**6dB BANDWIDTH**	10 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70%RH, 1005 hPa	**TESTED BY**: Gary Chang	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.450	0.11	28.82	-	28.93	-	48.00	-	-19.07	-
2	0.677	0.15	24.91	-	25.06	-	48.00	-	-22.94	-
3	3.777	0.38	21.54	-	21.92	-	48.00	-	-26.08	-
4	7.047	0.50	15.40	-	15.90	-	48.00	-	-32.10	-
5	14.086	0.68	23.97	-	24.65	-	48.00	-	-23.35	-
6	20.078	1.00	30.25	-	31.25	-	48.00	-	-16.75	-

NOTE:

1. QP. and AV. are abbreviations of quasi-peak and average individually.
2. "-": NA
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Emission Level = Reading Value + Correction Factor.

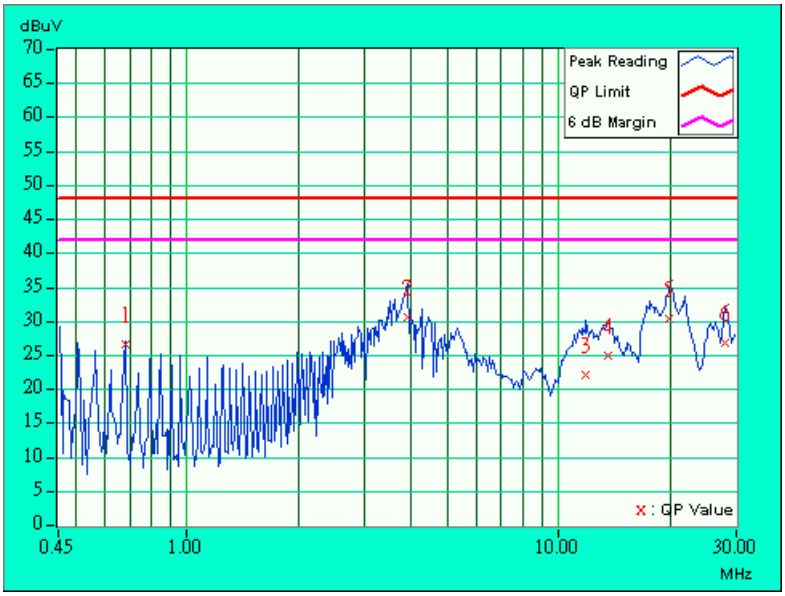


EUT	Bluetooth USB Dongle	**MODEL**	BT-0030H
MODE	Channel 0	**6dB BANDWIDTH**	10 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20deg. C, 70%RH, 1005 hPa	**TESTED BY**: Gary Chang	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.680	0.15	25.86	-	26.01	-	48.00	-	-21.99	-
2	3.902	0.30	29.83	-	30.13	-	48.00	-	-17.87	-
3	11.797	0.44	21.37	-	21.81	-	48.00	-	-26.19	-
4	13.523	0.47	24.16	-	24.63	-	48.00	-	-23.37	-
5	19.852	0.79	29.57	-	30.36	-	48.00	-	-17.64	-
6	28.047	0.76	26.07	-	26.83	-	48.00	-	-21.17	-

NOTE:

1. QP. and AV. are abbreviations of quasi-peak and average individually.
2. "-": NA
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Emission Level = Reading Value + Correction Factor.

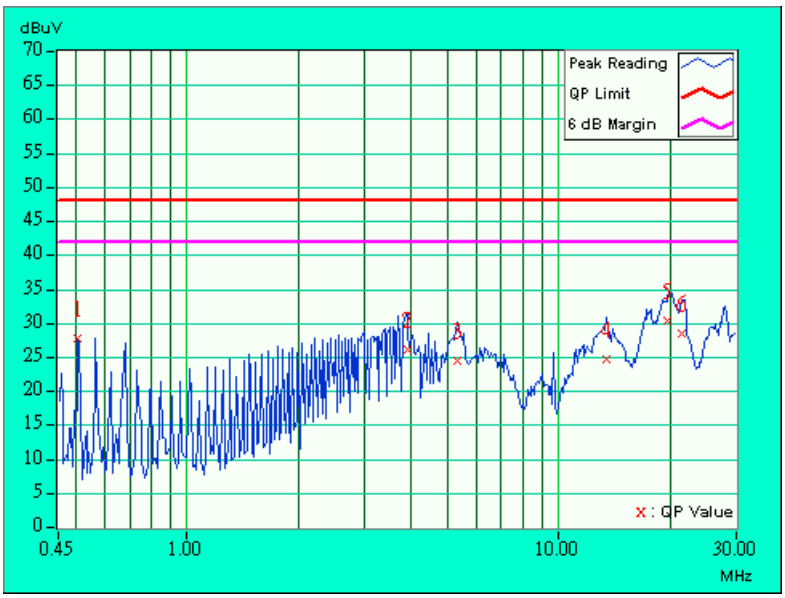


EUT	Bluetooth USB Dongle	**MODEL**	BT-0030H
MODE	Channel 39	**6dB BANDWIDTH**	10 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70%RH, 1005 hPa	**TESTED BY**: Gary Chang	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.509	0.12	26.86	-	26.98	-	48.00	-	-21.02	-
2	3.910	0.39	25.16	-	25.55	-	48.00	-	-22.45	-
3	5.328	0.44	23.42	-	23.86	-	48.00	-	-24.14	-
4	13.434	0.67	23.80	-	24.47	-	48.00	-	-23.53	-
5	19.613	0.98	29.43	-	30.41	-	48.00	-	-17.59	-
6	21.434	1.06	27.52	-	28.58	-	48.00	-	-19.42	-

NOTE:

1. QP. and AV. are abbreviations of quasi-peak and average individually.
2. "-": NA
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Emission Level = Reading Value + Correction Factor.

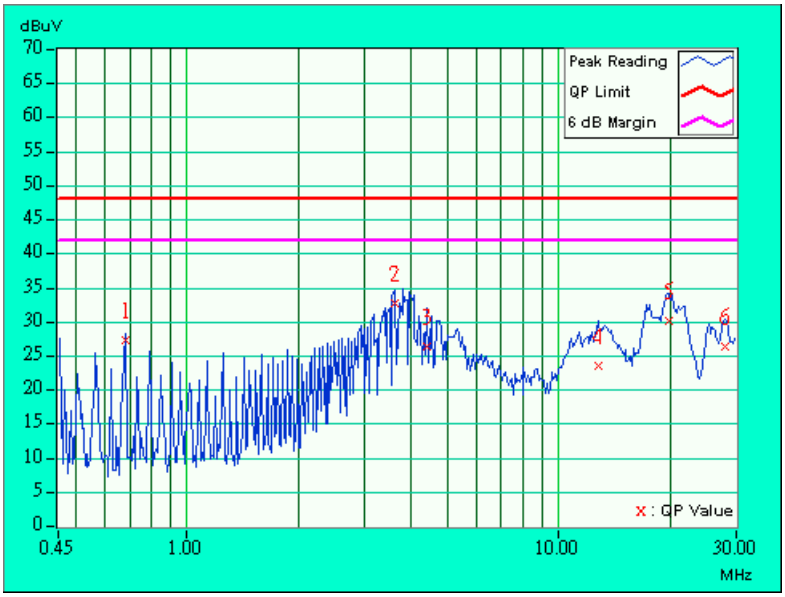


EUT	Bluetooth USB Dongle	**MODEL**	BT-0030H
MODE	Channel 39	**6dB BANDWIDTH**	10 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Neutral (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70%RH, 1005 hPa	**TESTED BY**: Gary Chang	

No	Freq.	Corr. Factor	Reading Value [dB (Uv)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.680	0.15	26.49	-	26.64	-	48.00	-	-21.36	-
2	3.625	0.28	32.04	-	32.32	-	48.00	-	-15.68	-
3	4.418	0.31	25.67	-	25.98	-	48.00	-	-22.02	-
4	12.801	0.46	22.92	-	23.38	-	48.00	-	-24.62	-
5	19.813	0.79	29.43	-	30.22	-	48.00	-	-17.78	-
6	28.109	0.76	25.70	-	26.46	-	48.00	-	-21.54	-

NOTE:

1. QP. and AV. are abbreviations of quasi-peak and average individually.
2. "-": NA
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Emission Level = Reading Value + Correction Factor.

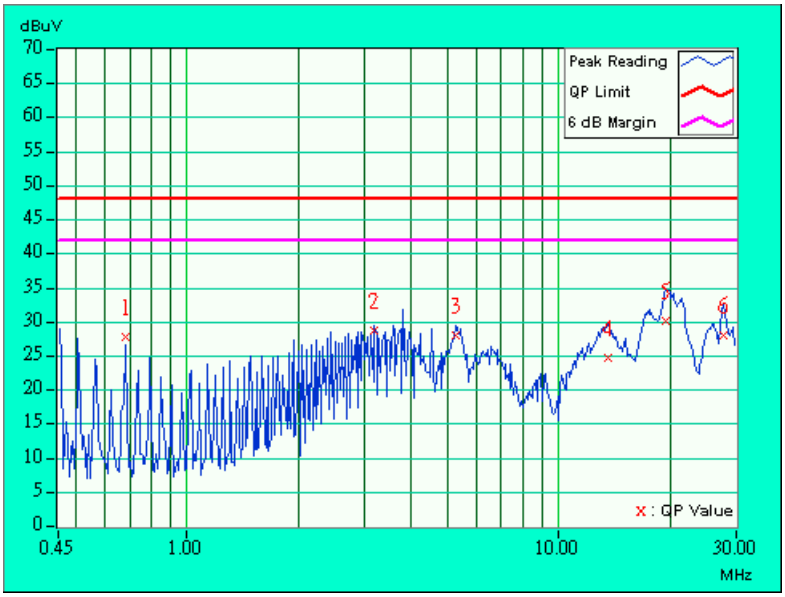


EUT	Bluetooth USB Dongle	**MODEL**	BT-0030H
MODE	Channel 78	**6dB BANDWIDTH**	10 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Line (L)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70%RH, 1005 hPa	**TESTED BY**: Gary Chang	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.680	0.15	26.53	-	26.68	-	48.00	-	-21.32	-
2	3.180	0.32	27.59	-	27.91	-	48.00	-	-20.09	-
3	5.277	0.44	26.80	-	27.24	-	48.00	-	-20.76	-
4	13.563	0.67	23.59	-	24.26	-	48.00	-	-23.74	-
5	19.348	0.96	29.03	-	29.99	-	48.00	-	-18.01	-
6	27.730	1.25	26.88	-	28.13	-	48.00	-	-19.87	-

NOTE:

1. QP. and AV. are abbreviations of quasi-peak and average individually.
2. "-": NA
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Emission Level = Reading Value + Correction Factor.

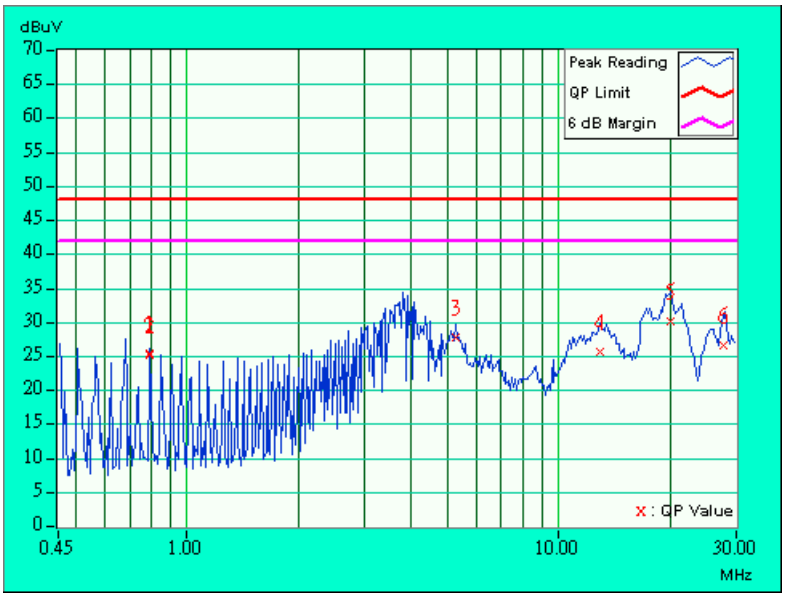


EUT	Bluetooth USB Dongle	**MODEL**	BT-0030H
MODE	Channel 78	**6dB BANDWIDTH**	10 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**PHASE**	Netural (N)
ENVIRONMENTAL CONDITIONS	20 deg. C, 70%RH, 1005 hPa	**TESTED BY**: Gary Chang	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.794	0.17	24.59	-	24.76	-	48.00	-	-23.24	-
2	0.794	0.17	24.36	-	24.53	-	48.00	-	-23.47	-
3	5.281	0.32	27.16	-	27.48	-	48.00	-	-20.52	-
4	12.891	0.46	24.90	-	25.36	-	48.00	-	-22.64	-
5	19.887	0.79	29.33	-	30.12	-	48.00	-	-17.88	-
6	27.809	0.76	25.99	-	26.75	-	48.00	-	-21.25	-

NOTE:

1. QP. and AV. are abbreviations of quasi-peak and average individually.
2. "-": NA
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Emission Level = Reading Value + Correction Factor.



4.2 NUMBER OF HOPPING FREQUENCY USED

4.2.1 LIMIT OF HOPPING FREQUENCY USED

At least 75 hopping frequencies, and should be equally spaced.

4.2.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

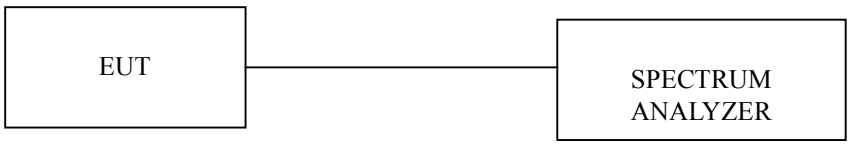
NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

4.2.3 TEST PROCEDURES

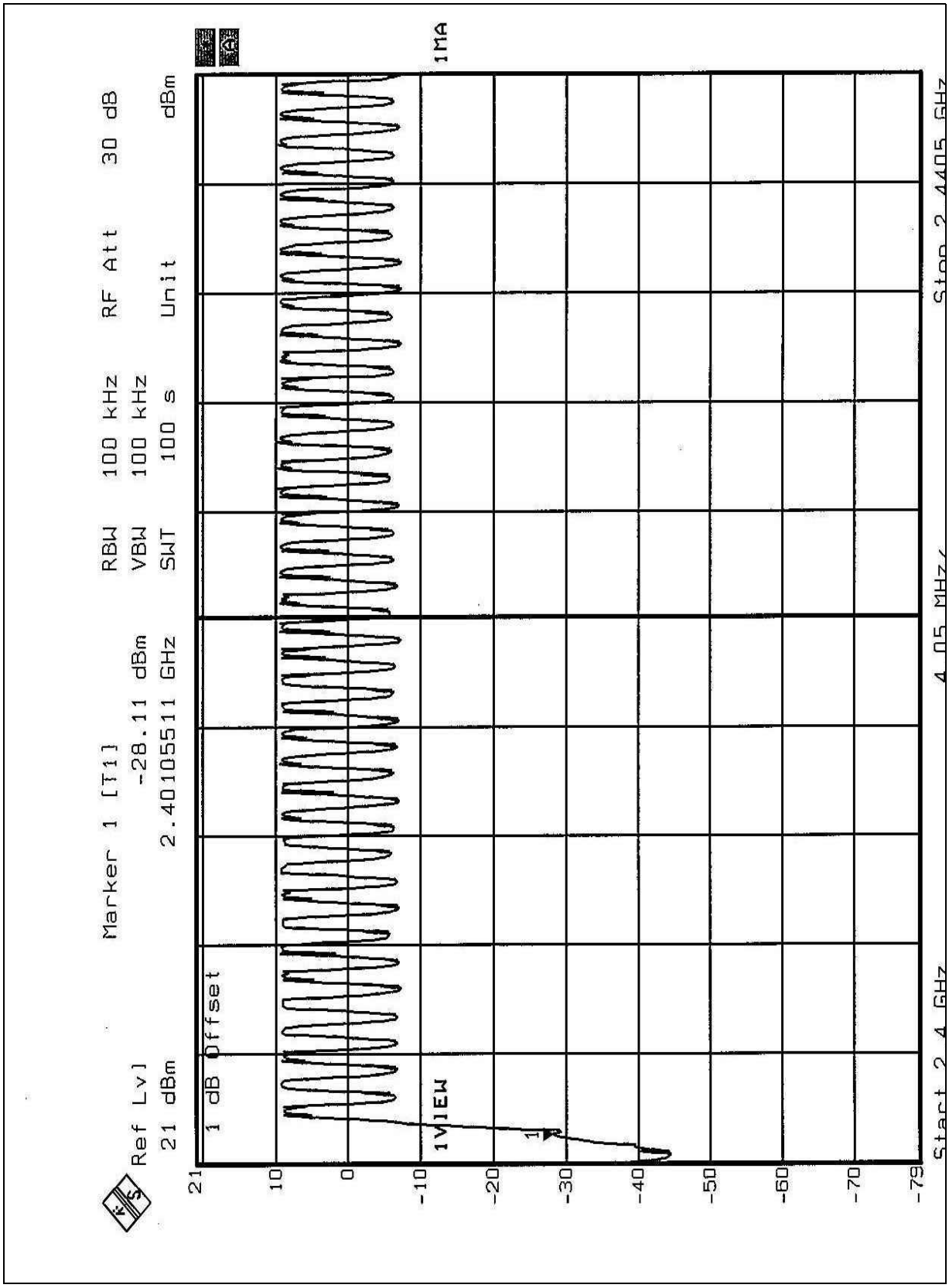
1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set the SA on MaxHold Mode, and then keep the EUT in hopping 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.

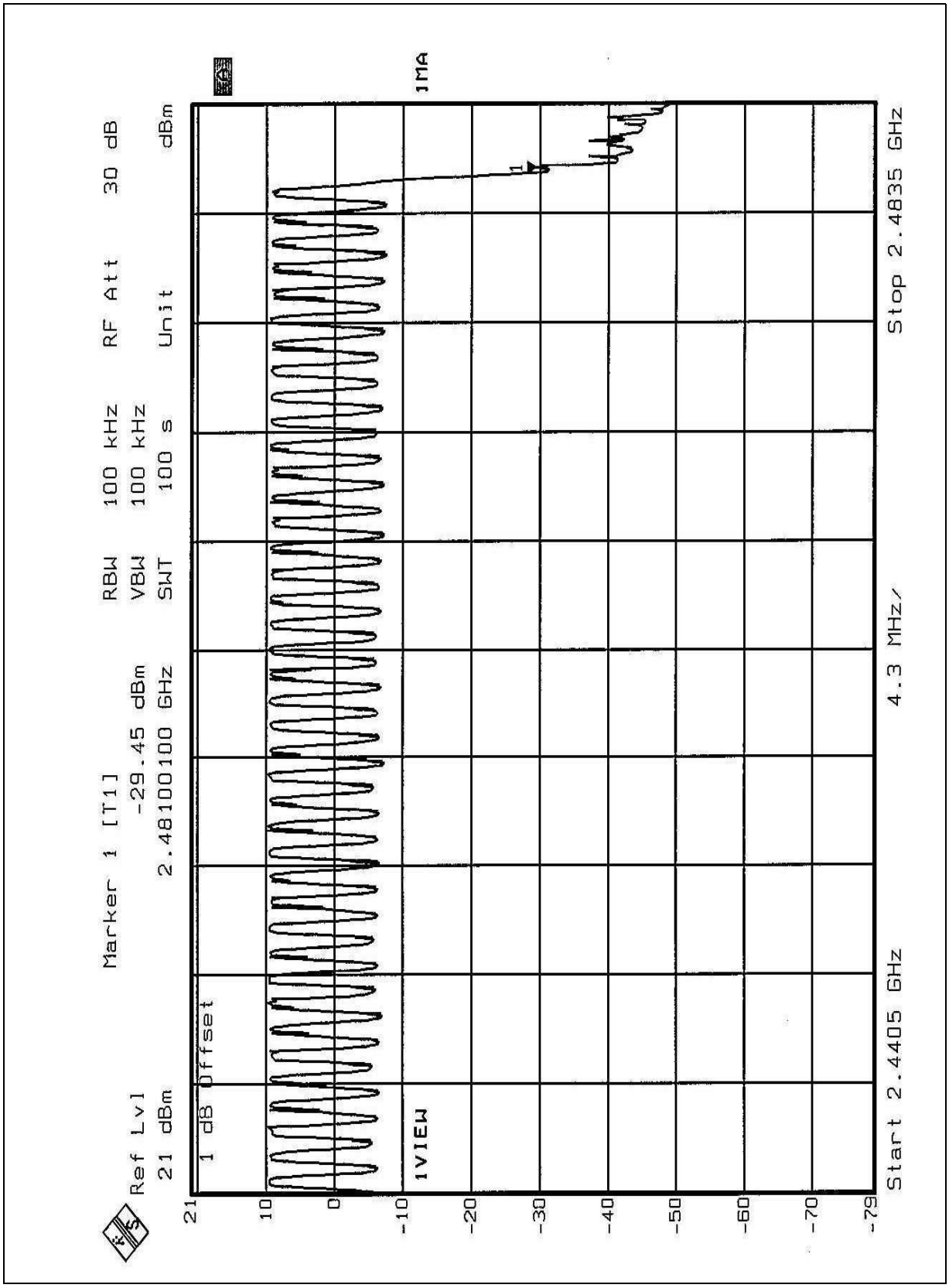
4.2.4 TEST SETUP



4.2.5 TEST RESULTS

There are 79 hopping frequencies in the hopping mode. Please refer to next two pages for the test result. On the plots, it shows that the hopping frequencies are equally spaced.


Ref Lvl
21 dBm
1 dB Offset
Marker 1 [T1]
-28.11 dBm
2.40105511 GHz
RBW 100 kHz
VBW 100 kHz
SWT 100 s
RF Att 30 dB
Unit dBm
1MA
1VIEW
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79
Start 2.4 GHz
4.05 MHz/
Stop 2.4405 GHz


Ref Lvl
21 dBm
1 dB Offset
Marker 1 [T1]
-29.45 dBm
2.48100100 GHz
RBW 100 kHz
VBW 100 kHz
SWT 100 s
RF Att 30 dB
Unit dBm
1MA
1VIEW
Start 2.4405 GHz
4.3 MHz/
Stop 2.4835 GHz
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79

4.3 DWELL TIME ON EACH CHANNEL

4.3.1 LIMIT OF DWELL TIME USED

For FHSS, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period. For hybrid systems, the average time of occupancy on any frequency should not exceed 0.4 seconds within a time period in seconds equal to the number of hopping frequencies employed multiplied by 0.4.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

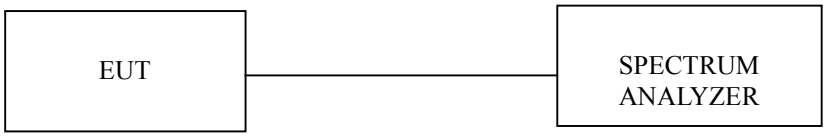
NOTES:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST PROCEDURES

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect its antenna terminal to measurement 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.

4.3.4 TEST SETUP



4.3.5 TEST RESULTS

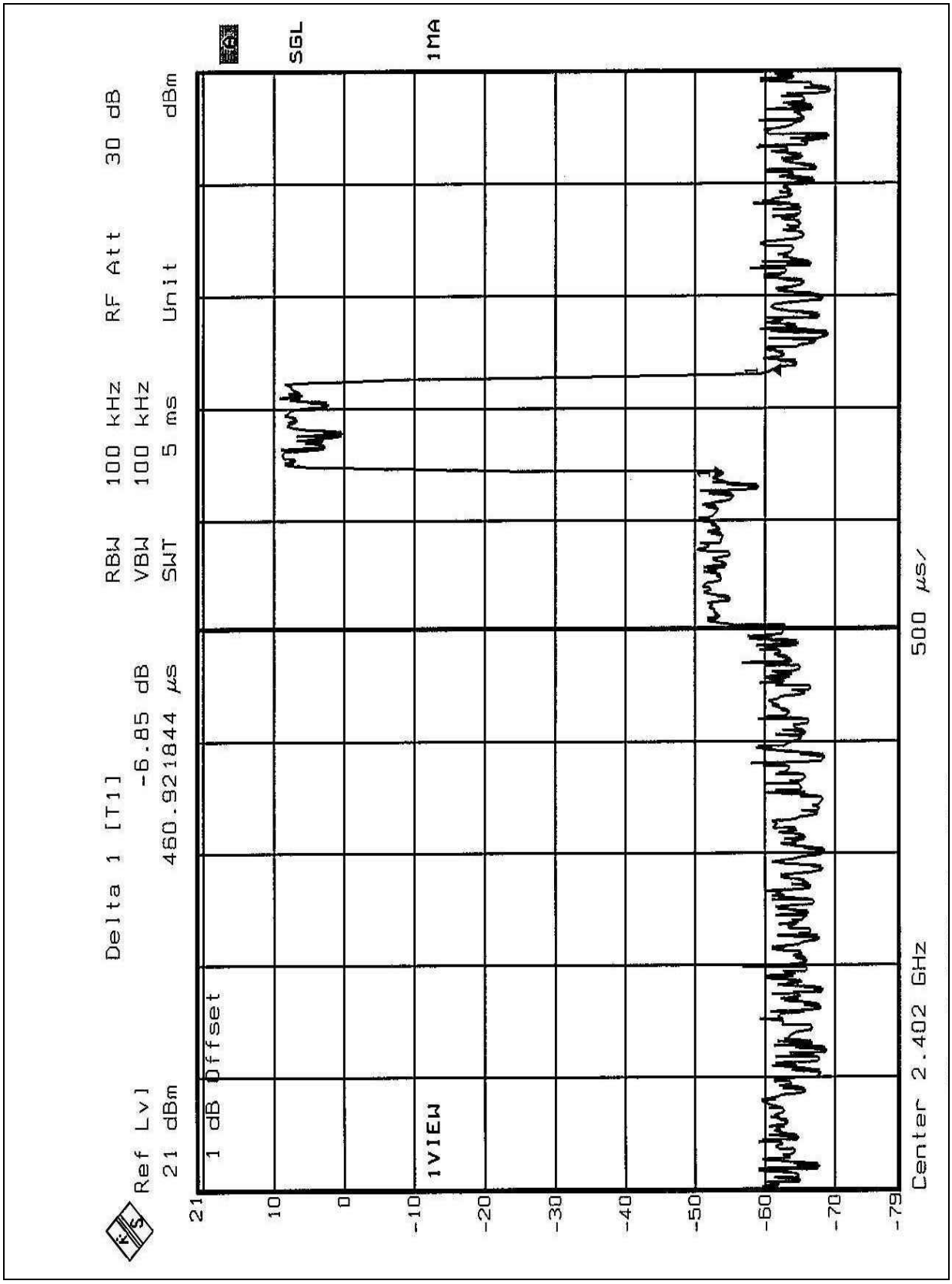
CHANNEL	DWELL TIME
0	280.05ms
39	273.96ms
78	280.05ms

Note : This product is averagely hopped on 79 frequencies. The maximum hopping rate is 1600 hops/sec. The longest pulse duration is 460.92μsec.

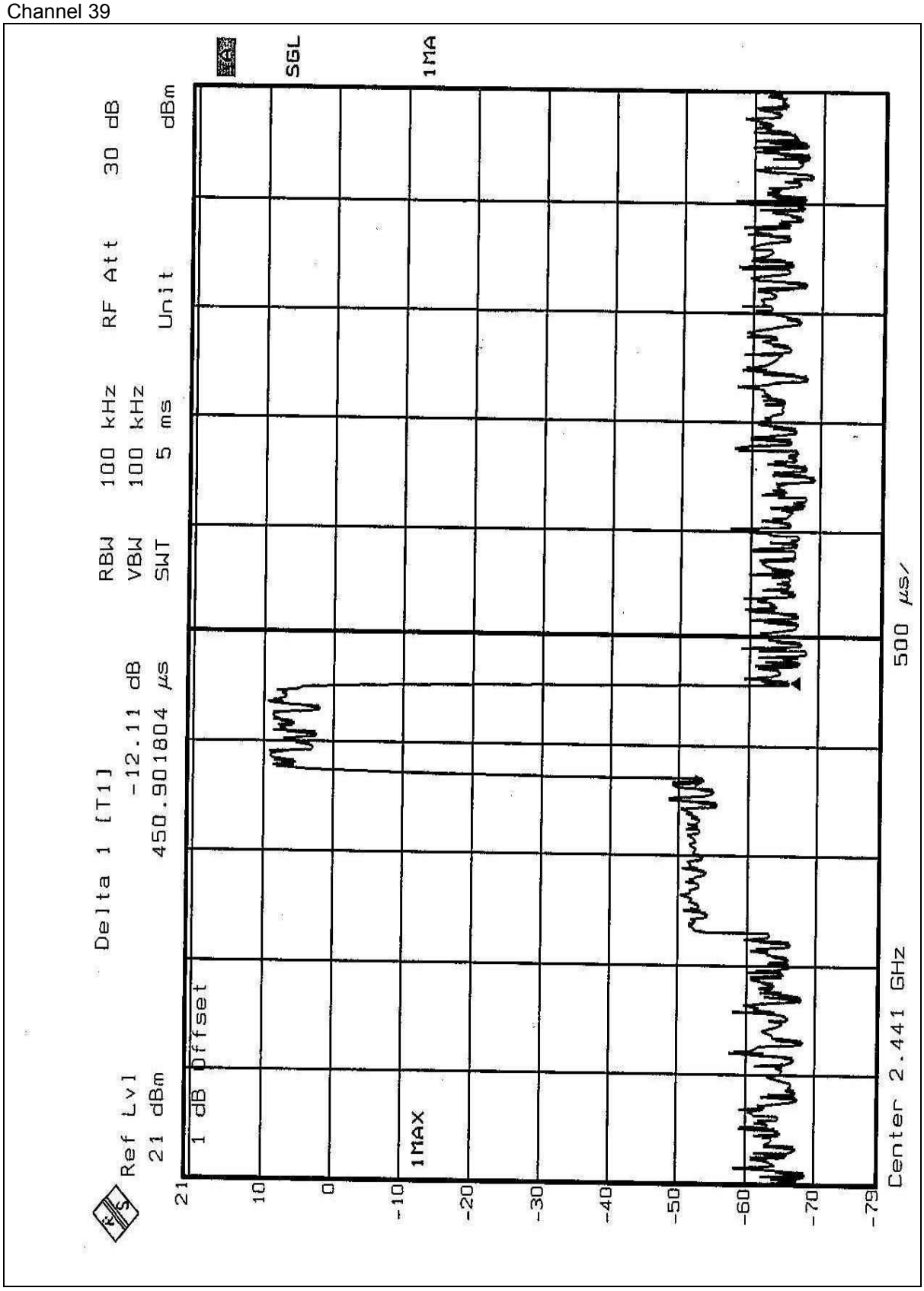
So, the longest Dwell Time = 460.92 μ sec x 1600 ÷ 79 x 30 = 280.05 msec. which is smaller than 0.4sec.

Test plots of the transmitting time slot are shown on next three pages.

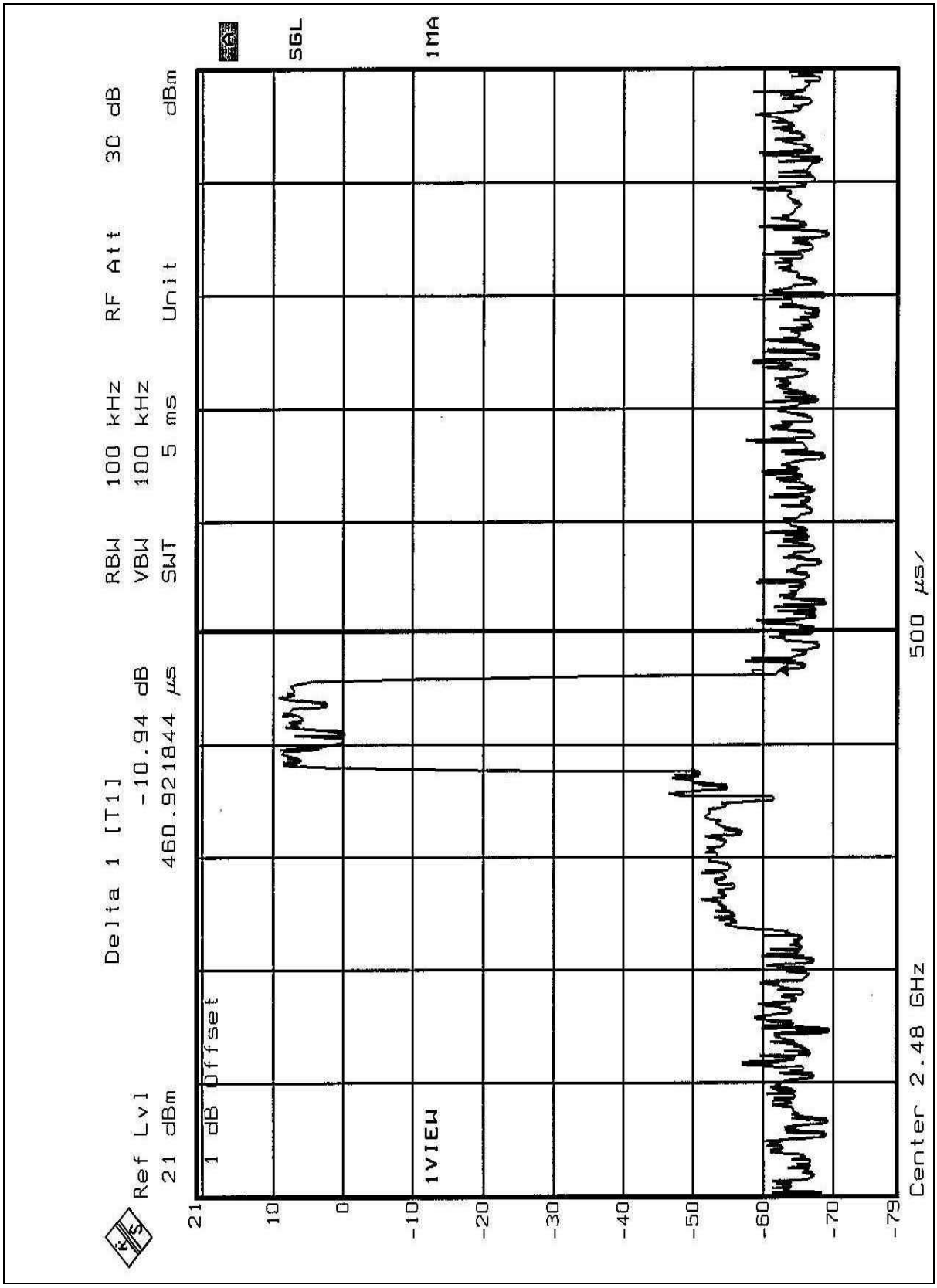
Channel 0


Ref Lvl
21 dBm
1 dB Offset
Delta 1 [T1]
-6.85 dB
460.921844 µs
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
SGL
1MA
1VIEW
Center 2.402 GHz
500 µs/
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79

Channel 39


Ref Lvl
21 dBm
1 dB Offset
Delta 1 [T1]
-12.11 dB
450.901804 µs
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
SGL
1MA
1MAX
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79
Center 2.441 GHz
500 µs/

Channel 78


Ref Lvl
21 dBm
1 dB Offset
Delta 1 [T1]
-10.94 dB
460.921844 µs
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1VIEW
SGL
1MA
21
10
0
-10
-20
-30
-40
-50
-60
-70
-79
Center 2.48 GHz
500 µs/