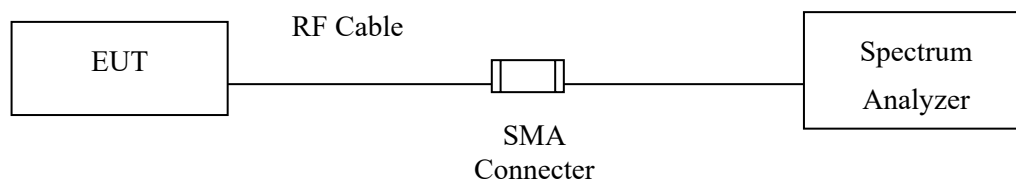


11. Duty Cycle

11.1. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀RF輸入端，
待測物應在正常發射狀態下量測。

11.2. 測試架構圖



11.3. 量測不確定度

此項測試之量測不確定度為 $\pm 2.31\text{msec}$

11.4. Duty Cycle 測試結果

待測物名稱：Intel® Wi-Fi 6 AX201

待測物型號：AX201NGW

測試頻道：--

量測天線：--

檢測器：峰值

測試日期：107年10月19日

測試項目：Duty Cycle

測試模式：--

測試距離：Conducted

環境溫度：20 °C

環境濕度：50 %

Duty Cycle Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$
$$\text{Duty Factor} = 10 \text{ Log } (1/\text{Duty Cycle})$$

Results:

SISO A

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	8.3913	8.6522	96.98	0.13
802.11g	2.1014	2.3623	88.96	0.51
802.11n20	24.7826	25.0725	98.84	0.05
802.11n40	17.8551	18.1449	98.40	0.07
802.11ax20	24.6377	24.9275	98.84	0.05
802.11ax40	19.7826	20.0725	98.56	0.06

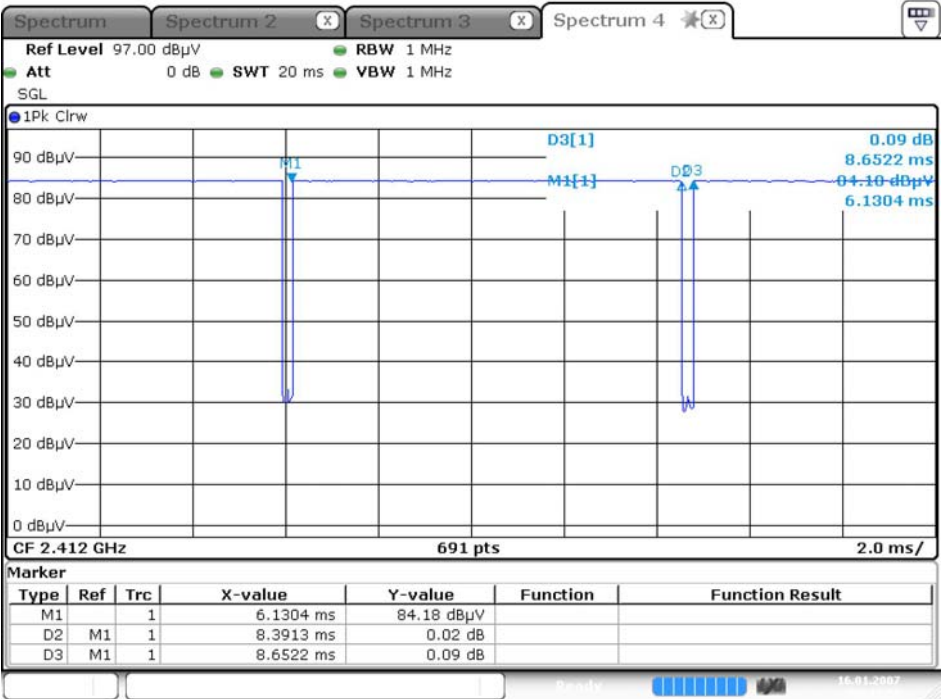
SISO B

2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	8.3913	8.6522	96.98	0.13
802.11g	2.0870	2.3623	88.35	0.54
802.11n20	24.7681	25.0435	98.90	0.05
802.11n40	17.8116	18.1594	98.08	0.08
802.11ax20	24.6957	24.9710	98.90	0.05
802.11ax40	19.7681	20.0435	98.63	0.06

MIMO

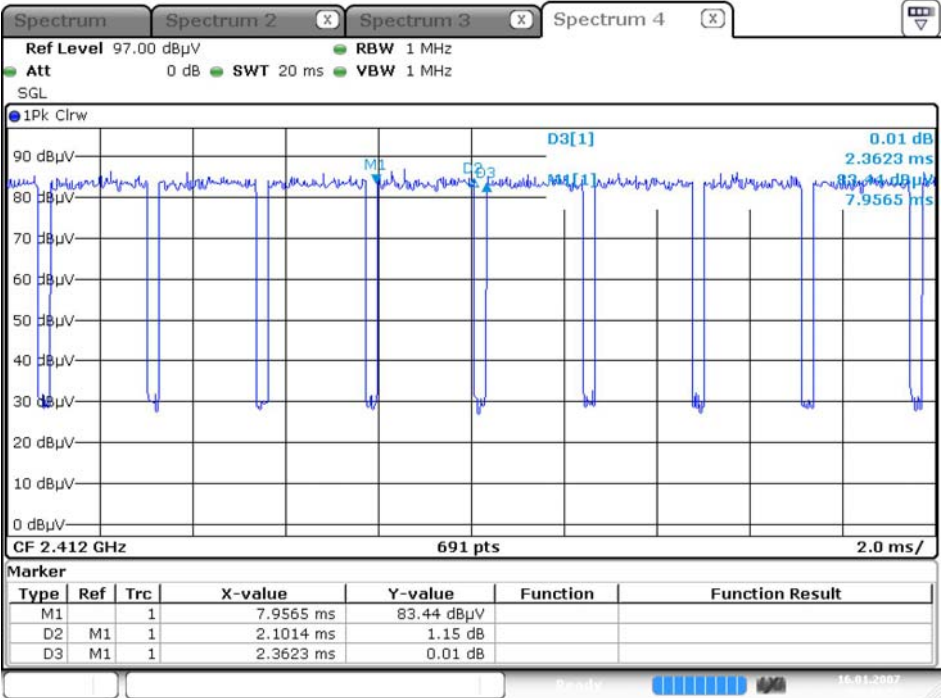
2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11n20	18.5507	18.8696	98.31	0.07
802.11n40	8.9565	9.2464	96.86	0.14
802.11ax20	19.8406	20.1159	98.63	0.06
802.11ax40	9.9130	10.2609	96.61	0.15

802.11b (SISO A)



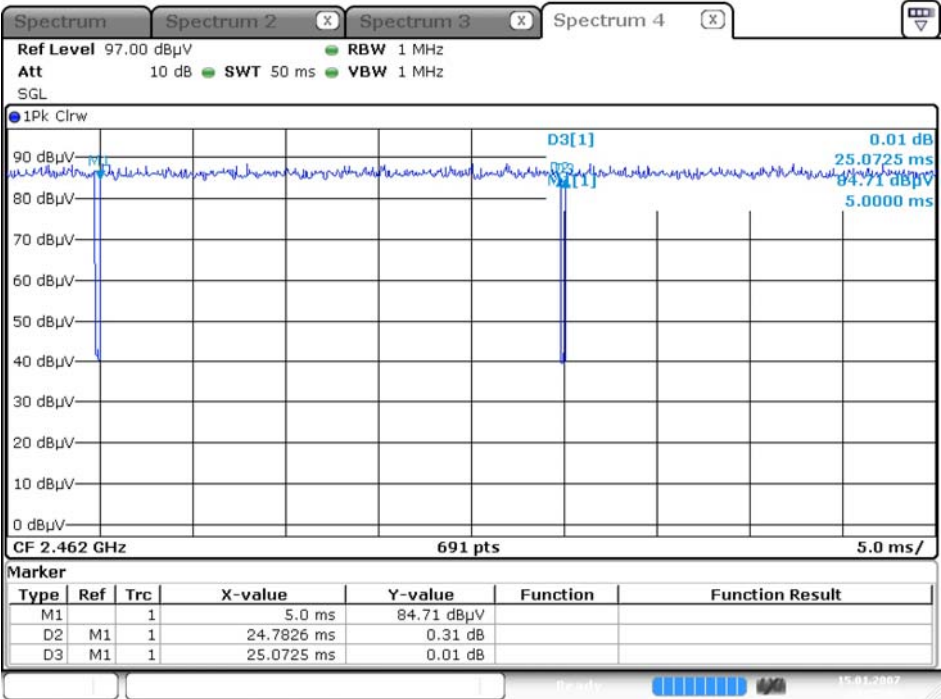
Date: 16.JAN.2007 08:47:59

802.11g (SISO A)



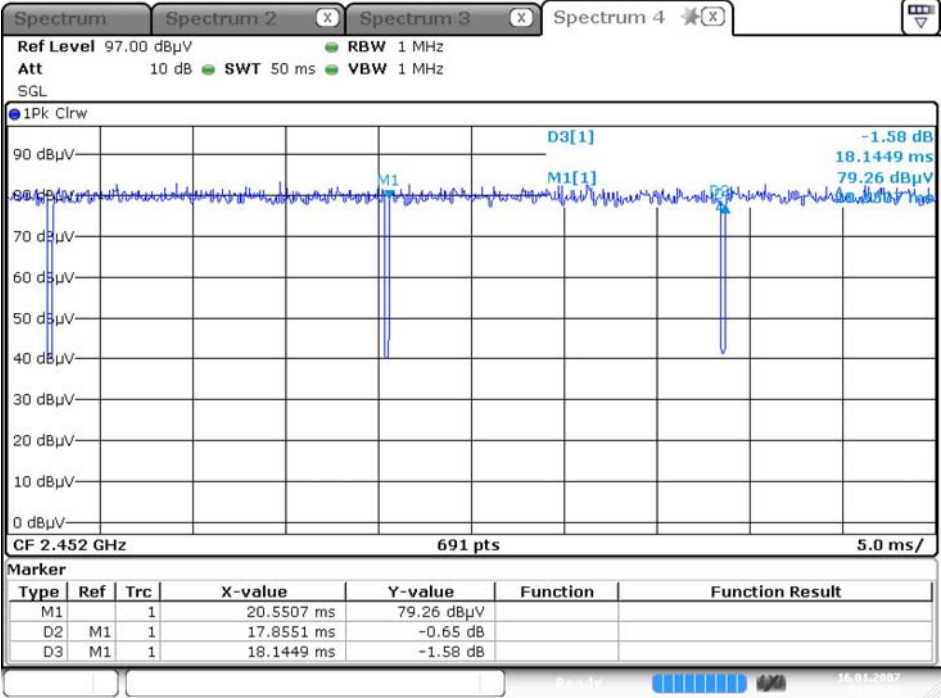
Date: 16.JAN.2007 08:48:59

802.11n20 (SISO A)



Date: 15. JAN. 2007 23:25:43

802.11n40 (SISO A)



Date: 16. JAN. 2007 02:29:00

The screenshot displays a spectrum analyzer window with the following settings and data:

- Windows:** Spectrum, Spectrum 2, Spectrum 3, Spectrum 4.
- Ref Level:** 97.00 dBμV
- Att:** 10 dB
- SWT:** 50 ms
- RBW:** 1 MHz
- VBW:** 1 MHz
- SGL:** (Selected)
- Marker:** 1Pk Clr

The main display shows a frequency spectrum with three markers:

- M1:** Located at approximately 2.462 GHz, with a value of 88.38 dBμV and a duration of 13.4058 ms.
- D3[1]:** Located at approximately 2.462 GHz, with a value of 0.40 dB.
- D2:** Located at approximately 2.462 GHz, with a value of 0.01 dB.

The x-axis is labeled "CF 2.462 GHz" and "691 pts". The y-axis is labeled "dBμV" and ranges from 0 to 90. The scale bar indicates "5.0 ms/".

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	13.4058 ms	88.38 dBμV		
D2	M1	1	24.6377 ms	0.40 dB		
D3	M1	1	24.9275 ms	0.01 dB		

Spectrum

Spectrum 2

Spectrum 3

Spectrum 4

Ref Level 97.00 dBμV

Att 10 dB

SWT 50 ms

RBW 1 MHz

VBW 1 MHz

SGL

1Pk Clrw

90 dBμV

80 dBμV

70 dBμV

60 dBμV

50 dBμV

40 dBμV

30 dBμV

20 dBμV

10 dBμV

0 dBμV

D3[1]

2.94 dB

20.0725 ms

82.25 dBμV

14.7826 ms

CF 2.452 GHz

691 pts

5.0 ms/

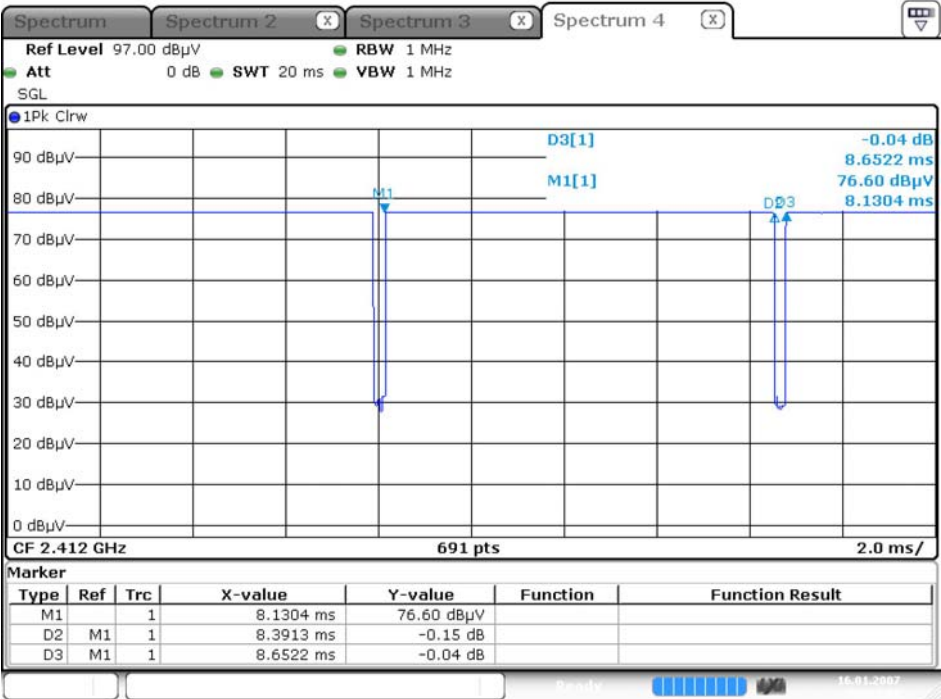
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	14.7826 ms	82.25 dBμV		
D2	M1	1	19.7826 ms	0.43 dB		
D3	M1	1	20.0725 ms	2.94 dB		

16.01.2007

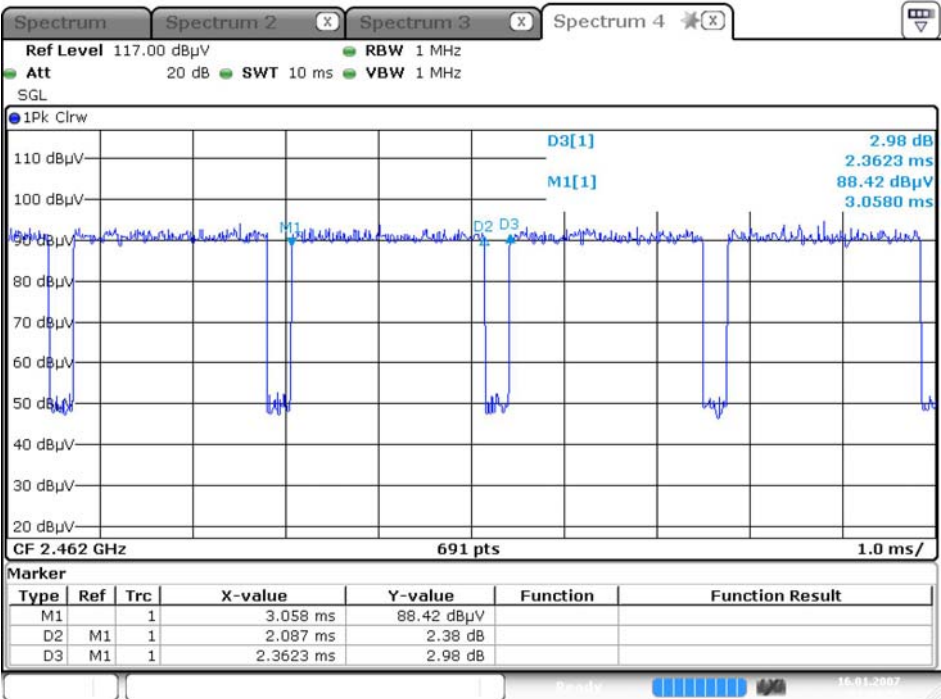
第 685 頁 共 690 頁

802.11b (SISO B)



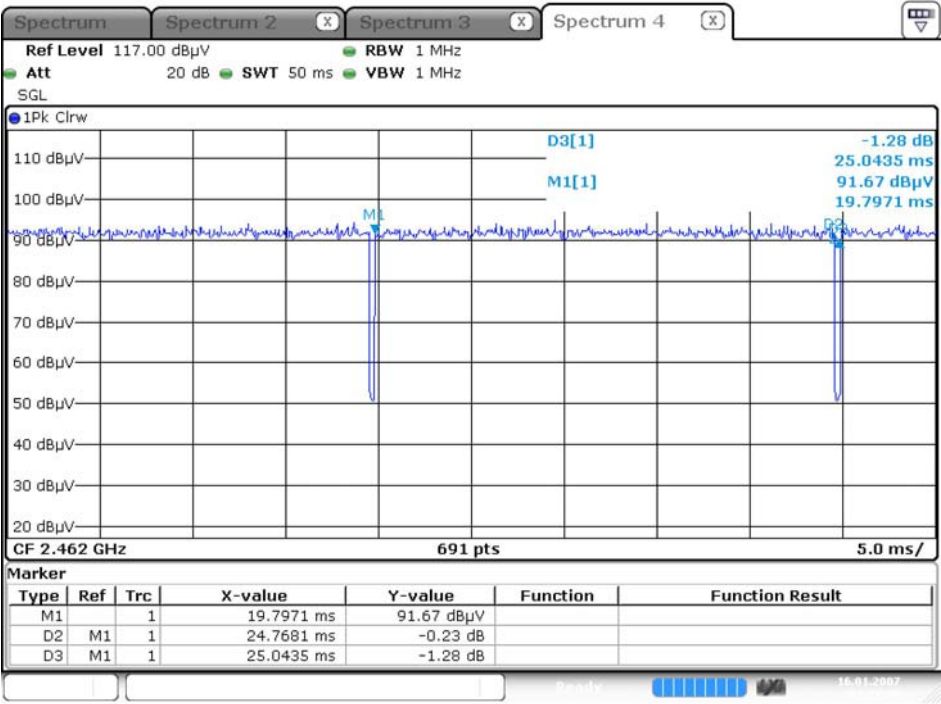
Date: 16.JAN.2007 08:51:09

802.11g (SISO B)



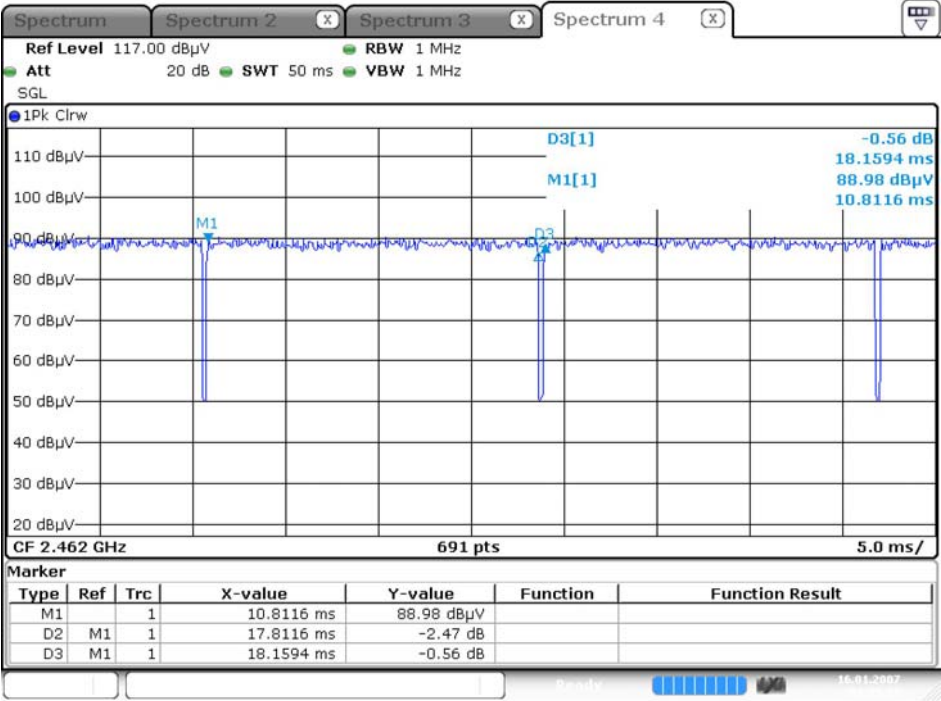
Date: 16.JAN.2007 03:09:55

802.11n20 (SISO B)



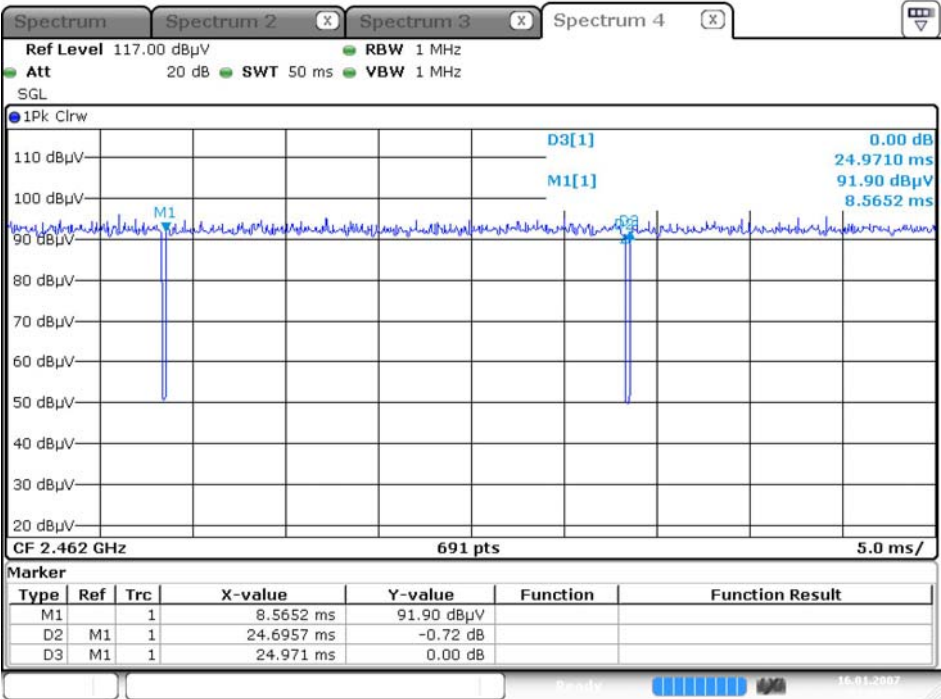
Date: 16. JAN. 2007 03:27:46

802.11n40 (SISO B)



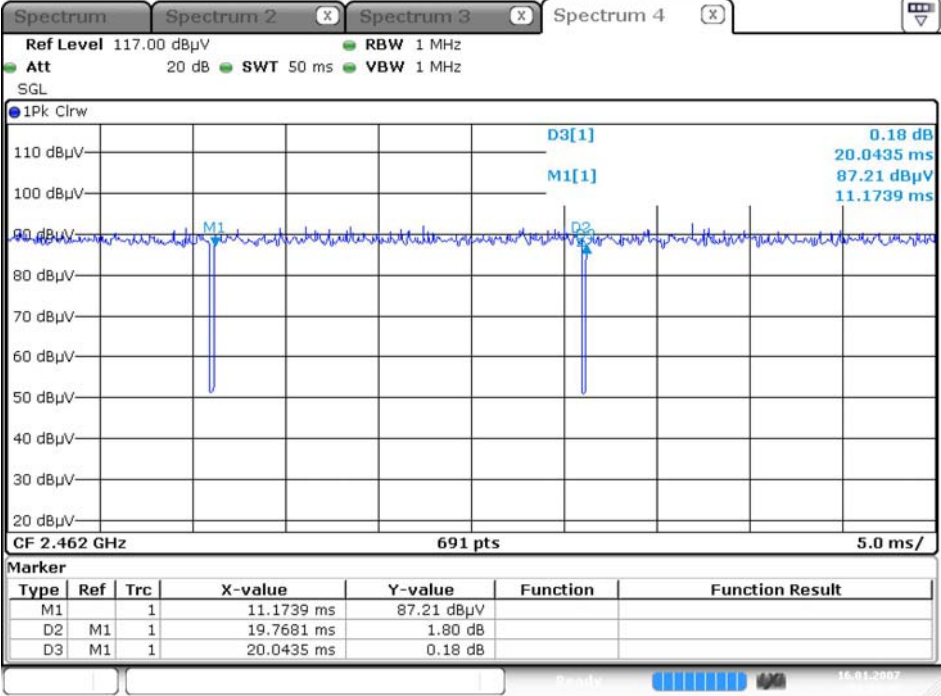
Date: 16. JAN. 2007 04:35:10

802.11ax20 (SISO B)



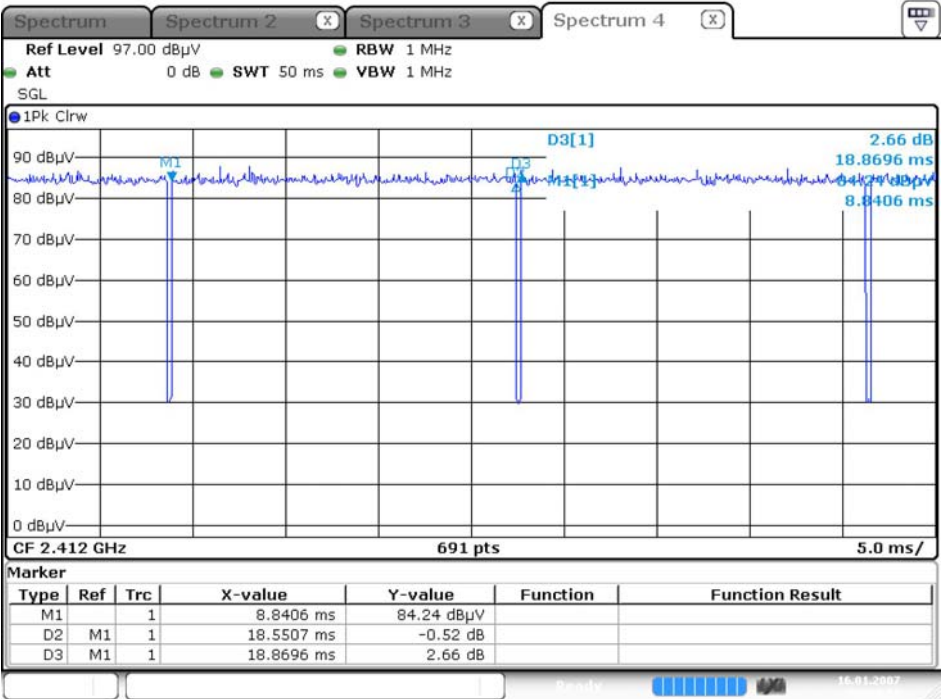
Date: 16.JAN.2007 03:38:23

802.11ax40 (SISO B)



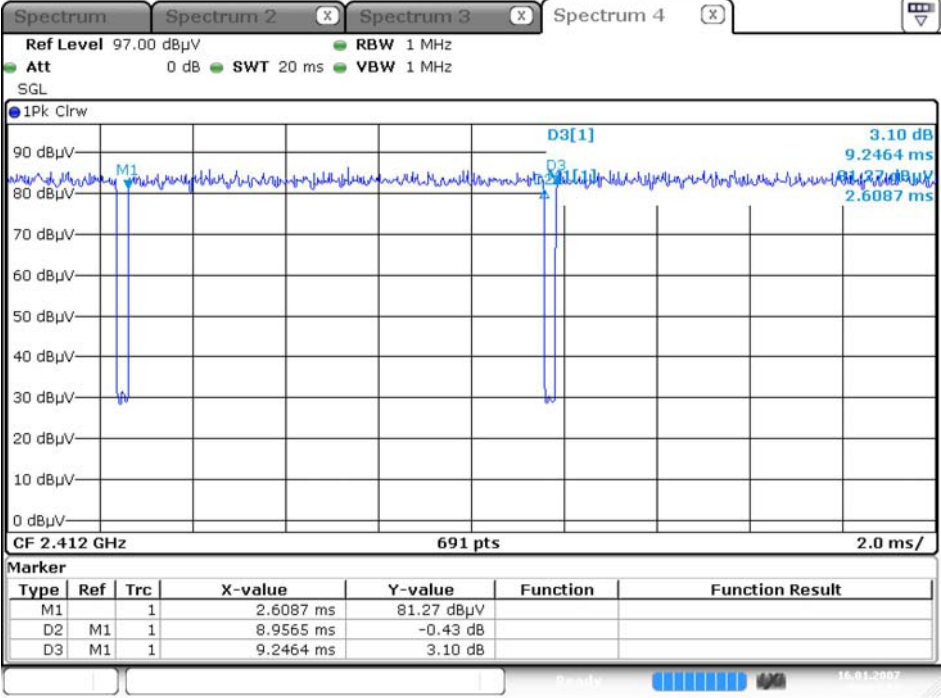
Date: 16.JAN.2007 04:38:49

802.11n20 (MIMO)



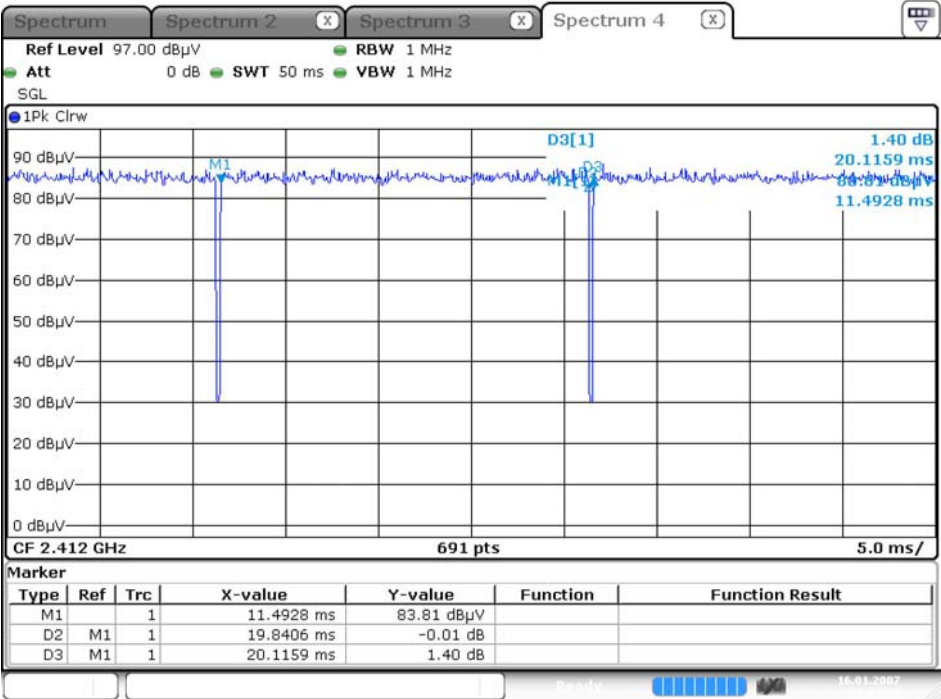
Date: 16.JAN.2007 08:58:53

802.11n40 (MIMO)



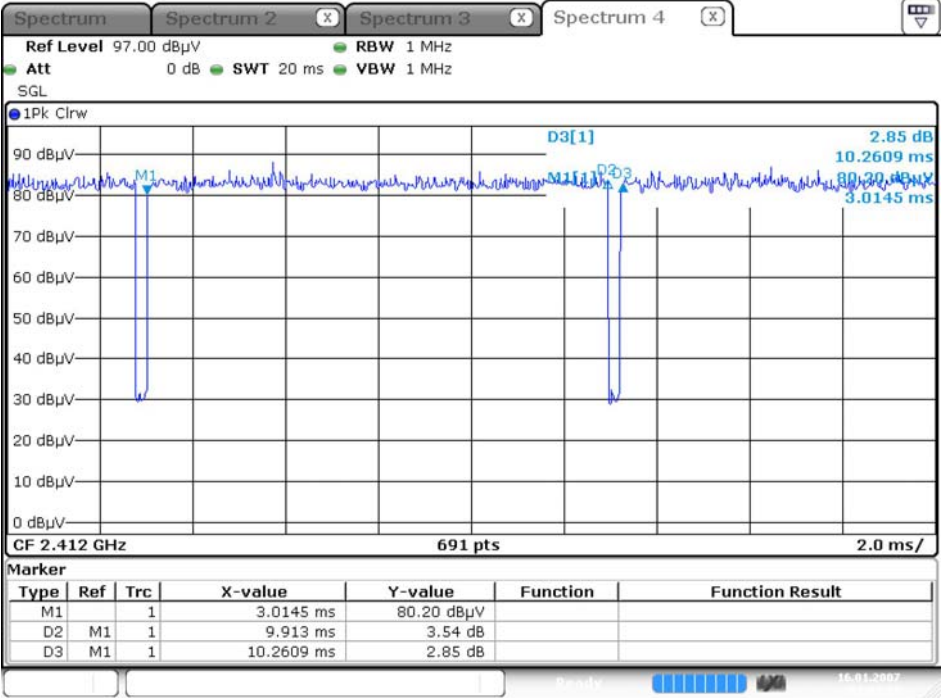
Date: 16.JAN.2007 08:59:53

802.11ax20 (MIMO)



Date: 16.JAN.2007 09:02:22

802.11ax40 (MIMO)



Date: 16.JAN.2007 09:01:06

附件 1: 待測物測試擺設相片

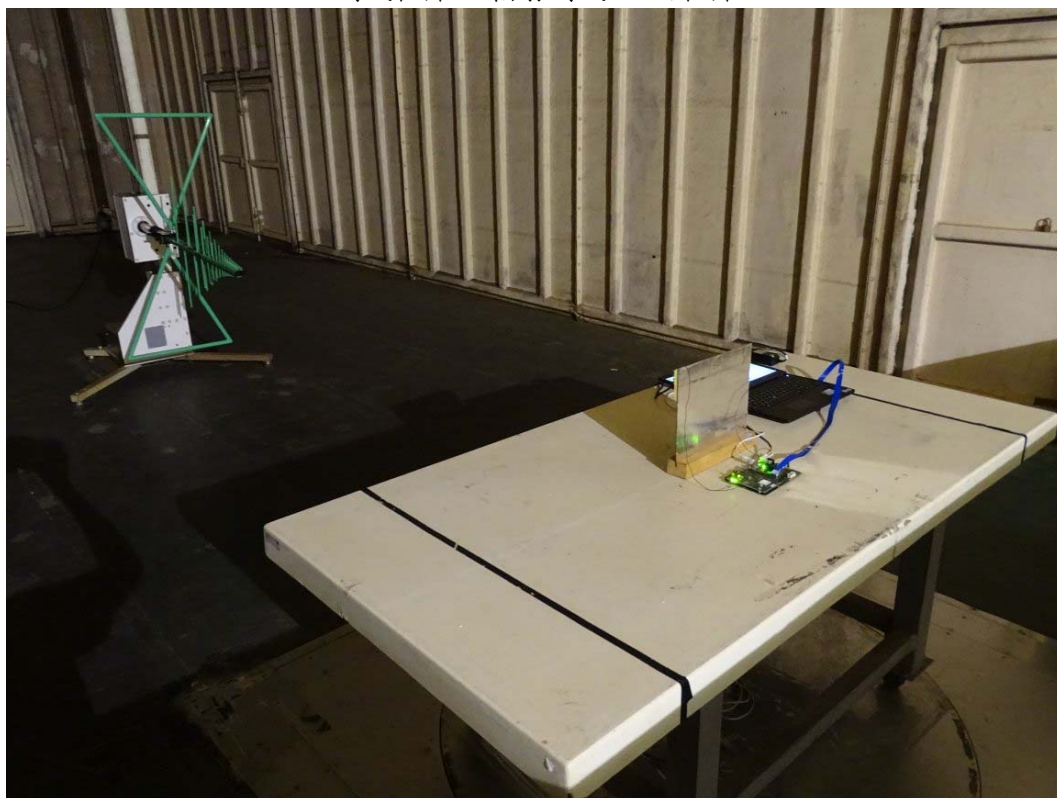
測試相片：電源端點測試 正面相片



測試相片：電源端點測試 背面相片



測試相片：輻射測試 正面相片



測試相片：輻射測試 背面相片



測試相片：輻射測試 正面相片(Horn)



測試相片：輻射測試 背面相片(Horn)

