



行動通信終端設備檢驗報告

根據

國家通訊傳播委員會電信技術規範【PLMN01】行動電話機檢驗項目

產品名稱：Neo 1973

廠牌：FIC

型號：GTA02

申請廠商：大眾電腦股份有限公司

- 此份試驗報告僅針對保留於本實驗室的試驗樣品有效。
- 未獲本公司書面允許，證書或報告不得節錄複製。

樣品接收日期：96年10月11日

報告發行日期：96年12月26日

報告發行版本：Rev. 01



目 錄

行動通訊終端設備檢驗報告	1
1. 一般資料	2
1.1 申請廠商	2
1.2 製造廠商	2
1.3 測試方法及依據.....	2
1.4 待測設備之基本敘述.....	2
1.5 待測設備樣品特性與規格重點敘述.....	3
1.6 測試模式	5
2. 一般特性檢驗.....	6
3. 檢驗接續圖.....	12
4. 檢驗使用儀器.....	13
5. 檢驗數據	14
5.1 GSM 900叢訊功率時間關係圖	14
5.2 GSM 900發射機頻率誤差	16
5.3 GSM 900發射射頻頻譜(載波頻率在100~1800kHz以內).....	18
5.4 GSM 900發射射頻頻譜(載波頻率在100~1800kHz以外).....	20
5.5 GSM 900混附波輻射連線狀態	21
5.6 GSM 900混附波輻射空間狀態.....	31
5.7 DCS 1800叢訊功率時間關係圖	35
5.8 DCS 1800發射機頻率誤差	37
5.9 DCS1800發射射頻頻譜(載波頻率在100~1800kHz以內).....	39
5.10 DCS1800發射射頻頻譜(載波頻率在100~1800kHz以外).....	41
5.11 DCS1800混附波輻射連線狀態.....	42
5.12 DCS1800混附波輻射空間狀態.....	52
6. 量測設定及限制值.....	56
6.1 混附波輻射發射頻帶內設定值.....	56
6.2 混附波輻射發射頻帶外設定值.....	56
6.3 混附波輻射連線狀態限制值.....	56
6.4 混附波輻射空間狀態限制值.....	56
6.5 調變頻譜 (Spectrum due to the modulation) 設定及限制值.....	57
6.6 功率轉換瞬態所產生之頻譜 (Spectrum due to switching transients) 限制值	57
附錄 A. 產品外觀與結構照	

1. 一般資料

1.1 申請廠商

大眾電腦股份有限公司
台北市內湖區陽光街300號1至9樓

1.2 製造廠商

大眾電腦(蘇州)有限公司
蘇州市工業園區蘇虹中路 200 號出口加工區

1.3 測試方法及依據

電信技術規範【PLMN01】94年12月21日修訂版

1.4 待測設備之基本敘述

EUT Name		Neo 1973
Brand Name		FIC
Model Name		GTA02
AC Adapter	Manufacture	AKII TECHNOLOGY CO., LTD.
	Brand Name	AKII Technology
	Model Name	A10P1-05MP
	Power Rating	I/P:100-240 Vac, 47-63 Hz, 0.3A; O/P: 5Vdc, 2.0A
	AC Power Cord Type	1.5 meter non-shielded cable without ferrite core
Battery	Manufacture	WELLDONE COMPANY
	Brand Name	FIC
	Model Name	GTC-01 / GTA-01
	Rating	3.7Vdc, 1200mAh
	Type	Li-ion
Earphone	Brand Name	Xport
	Model Name	Ko-11-1020a
	Type	1.42 meter non-shielded cable without ferrite core
USB Cable	Brand Name	Golden Bridge
	Model Name	AS52-0607007
	Type	1.29 meter non-shielded cable without ferrite core

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.



1.5 待測設備樣品特性與規格重點敘述

Specifications	
DUT Type :	Neo 1973
Brand Name :	FIC
Model Name :	GTA02
Tx Frequency :	GSM900 : 890-915MHz DCS1800 : 1710-1785MHz PCS1900 : 1850 ~1910MHz Bluetooth / Bluetooth EDR : 2400-2483.5MHz 802.11b / 802.11g : 2400-2483.5MHz GPS : 1575.42MHz
Rx Frequency :	GSM900 : 935-960MHz DCS1800 : 1805-1880MHz PCS1900 : 1930 ~ 1990 MHz Bluetooth / Bluetooth EDR : 2400-2483.5MHz 802.11b / 802.11g : 2400-2483.5MHz GPS : 1575.42MHz
Number of Channels :	Bluetooth / Bluetooth EDR: 79 Channels WLAN: 11 Channels
Carrier Frequency of Each Channel :	Bluetooth / Bluetooth ED: 2402+n x 1 MHz; n = 0~78 802.11b / 802.11g: 2412+(n-1) x 5 MHz; n = 1~11
Data Rate / Channel Spacing :	Bluetooth: 1Mbps Bluetooth EDR: 2/3Mbps 802.11b: 1/2/5/11Mbps 802.11g: 6/12/18/24/32/48/54Mdps
Antenna Connector :	GSM900 / DCS1800 / PCS1900: Coaxial Connector Bluetooth / Bluetooth EDR: NA 802.11b: Coaxial Connector 802.11g: Coaxial Connector GPS : Coaxial Connector
Antenna Type :	GSM900 / DCS1800 / PCS1900: Monopole Antenna Bluetooth / Bluetooth EDR: Chip Antenna 802.11b / 802.11g: Chip Antenna GPS : Ceramic Antenna
Antenna Gain :	GSM900 / DCS1800 / PCS1900: 0.07 dBi Bluetooth / Bluetooth EDR: -4.84 dBi 802.11b / 802.11g: -3 dBi GPS: 0.5 dBi
IMEI Code :	35465100000010
HW Version :	A5
SW Version :	Moko5
Maximum Output Power to Antenna :	GSM900: 31.80 dBm DCS1800:29.67 dBm PCS1900:29.27 dBm



Specifications			
	Bluetooth: 2.25 dBm (1Mbps) Bluetooth EDR: 2.4 dBm (2Mbps) Bluetooth EDR: 2.53 dBm (3Mbps) 802.11b: 14.02 dBm 802.11g: 14.89 dBm		
Digital Modulation Emission :	GSM900 / DCS1800 / PCS1900 : 300KGXW Bluetooth / Bluetooth EDR : FHSS 802.11b: DSSS 802.11g: OFDM		
Type of Modulation :	GSM900 / DCS1800 / PCS1900 : GMSK Bluetooth : GFSK Bluetooth EDR : $\pi/4$ -DQPSK, 8-DPSK 802.11b: DBPSK, DQPSK, CCK 802.11g: BPSK, QPSK, 16QAM, 64QAM		
DUT Stage :	Identical Prototype		
Function Type :	Transmitter		Transceiver V



1.6 測試模式

GSM900:

此測試共有3個測試模式:

模式一: 頻道1(低頻道)

模式二: 頻道62(中間頻道)

模式三: 頻道124(高頻道)

DCS1800:

此測試共有3個測試模式:

模式一: 頻道512(低頻道)

模式二: 頻道699(中間頻道)

模式三: 頻道885(高頻道)



2. 一般特性檢驗

GSM 900：測試頻道 1 (890.2 MHz)

項次	檢驗項目	合格標準	檢驗數據	結果判定
1	工作頻帶 (n = 1 ~ 124)	Tx : 890 + n * 0.2 MHz	890.2 ~ 914.8 MHz	合格
		Rx : 935 + n * 0.2 MHz	935.2 ~ 959.8 MHz	
2	收發頻率間隔	45 MHz	45 MHz	合格
3	頻道間隔	200 kHz	200 kHz	合格
4	最大發射輸出功率	39dBm(Class 2) 37dBm(Class 3) 33dBm(Class 4) 29dBm(Class 5)	31.80 dBm (Class 4) 容許度：@ Level 5 ≤ ±2dB以內 叢訊功率時間關係圖參照5.1	合格
5	發射機頻率誤差	頻率誤差(Hz)：≤90 Hz	17 Hz 參照5.2	合格
6	發射射頻頻譜	偏移載波頻率在100~1800kHz內 調變頻譜(dB) 功率轉換瞬態(dBm) 限制值參照6.5及6.6	參照5.3	合格
		偏移載波頻率在100~1800kHz外 調變頻譜(dB)	參照5.4	
7	混附波輻射(dBm)	連線狀態時 限制值參照6.3	參照5.5	合格
		空間狀態時 限制值參照6.4	參照5.6	



GSM 900：測試頻道 62 (902.4 MHz)

項次	檢驗項目	合格標準	檢驗數據	結果判定
1	工作頻帶 (n = 1 ~ 124)	Tx : 890 + n * 0.2 MHz	890.2 ~ 914.8 MHz	合格
		Rx : 935 + n * 0.2 MHz	935.2 ~ 959.8 MHz	
2	收發頻率間隔	45 MHz	45 MHz	合格
3	頻道間隔	200 kHz	200 kHz	合格
4	最大發射輸出功率	39dBm(Class 2) 37dBm(Class 3) 33dBm(Class 4) 29dBm(Class 5)	31.59 dBm (Class 4) 容許度：@ Level 5 ≤ ±2dB以內 叢訊功率時間關係圖參照5.1	合格
5	發射機頻率誤差	頻率誤差(Hz)：≤90 Hz	15 Hz 參照5.2	合格
6	發射射頻頻譜	偏移載波頻率在100~1800kHz內 調變頻譜(dB) 功率轉換瞬態(dBm) 限制值參照6.5及6.6	參照5.3	合格
		偏移載波頻率在100~1800kHz外 調變頻譜(dB)	參照5.4	
7	混附波輻射(dBm)	連線狀態時 限制值參照6.3	參照5.5	合格
		空閒狀態時 限制值參照6.4	參照5.6	



GSM 900：測試頻道124 (914.8MHz)

項次	檢驗項目	合格標準	檢驗數據	結果判定
1	工作頻帶 (n = 1 ~ 124)	Tx : 890 + n * 0.2 MHz	890.2 ~ 914.8 MHz	合格
		Rx : 935 + n * 0.2 MHz	935.2 ~ 959.8 MHz	
2	收發頻率間隔	45 MHz	45 MHz	合格
3	頻道間隔	200 kHz	200 kHz	合格
4	最大發射輸出功率	39dBm(Class 2) 37dBm(Class 3) 33dBm(Class 4) 29dBm(Class 5)	31.42 dBm (Class 4) 容許度：@ Level 5 ≤ ±2dB以內 叢訊功率時間關係圖參照5.1	合格
5	發射機頻率誤差	頻率誤差(Hz)：≤90 Hz	-18 Hz 參照5.2	合格
6	發射射頻頻譜	偏移載波頻率在100~1800kHz內 調變頻譜(dB) 功率轉換瞬態(dBm) 限制值參照6.5及6.6	參照5.3	合格
		偏移載波頻率在100~1800kHz外 調變頻譜(dB)	參照5.4	
7	混附波輻射(dBm)	連線狀態時 限制值參照6.3	參照5.5	合格
		空閒狀態時 限制值參照6.4	參照5.6	



DCS 1800：測試頻道512 (1710.2MHz)

項次	檢驗項目	合格標準	檢驗數據	結果判定
1	工作頻帶 (n = 512 ~ 885)	Tx : 1710.2 + 0.2*(n - 512)MHz	1710.2 ~ 1784.8 MHz	合格
		Rx : 1805.2 + 0.2*(n - 512)MHz	1805.2 ~ 1879.8 MHz	
2	收發頻率間隔	95 MHz	95 MHz	合格
3	頻道間隔	200 kHz	200 kHz	合格
4	最大發射輸出功率	30dBm(Class 1) 24dBm(Class 2) 36dBm(Class 3)	29.67 dBm (Class 1) 容許度：@ Level 0 ≤ ±2dB以內 叢訊功率時間關係圖參照5.7	合格
5	發射機頻率誤差	頻率誤差(Hz)：≤ 180 Hz	31 Hz 參照5.8	合格
6	發射射頻頻譜	偏移載波頻率在100~1800kHz內 調變頻譜(dB) 功率轉換瞬態(dBm) 限制值參照6.5及6.6	參照5.9	合格
		偏移載波頻率在100~1800kHz外 調變頻譜(dB)	參照5.10	
7	混附波輻射(dBm)	連線狀態時 限制值參照6.3	參照5.11	合格
		空閒狀態時 限制值參照6.4	參照5.12	



DCS 1800：測試頻道699 (1747.6MHz)

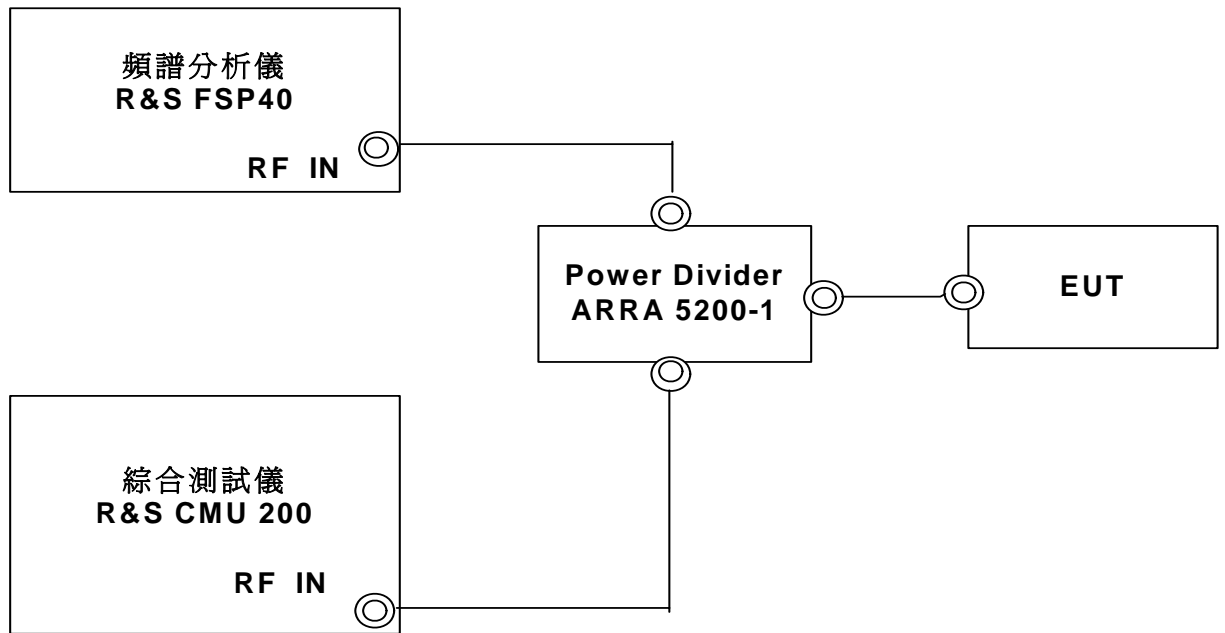
項次	檢驗項目	合格標準	檢驗數據	結果判定
1	工作頻帶 (n = 512 ~ 885)	Tx : 1710.2 + 0.2*(n - 512)MHz	1710.2 ~ 1784.8 MHz	合格
		Rx : 1805.2 + 0.2*(n - 512)MHz	1805.2 ~ 1879.8 MHz	
2	收發頻率間隔	95 MHz	95 MHz	合格
3	頻道間隔	200 kHz	200 kHz	合格
4	最大發射輸出功率	30dBm(Class 1) 24dBm(Class 2) 36dBm(Class 3)	29.07 dBm (Class 1) 容許度：@ Level 0 ≤ ±2dB以內 叢訊功率時間關係圖參照5.7	合格
5	發射機頻率誤差	頻率誤差(Hz)：≤180 Hz	47 Hz 參照5.8	合格
6	發射射頻頻譜	偏移載波頻率在100~1800kHz內 調變頻譜(dB) 功率轉換瞬態(dBm) 限制值參照6.5及6.6	參照5.9	合格
		偏移載波頻率在100~1800kHz外 調變頻譜(dB)	參照5.10	
7	混附波輻射(dBm)	連線狀態時 限制值參照6.3	參照5.11	合格
		空閒狀態時 限制值參照6.4	參照5.12	



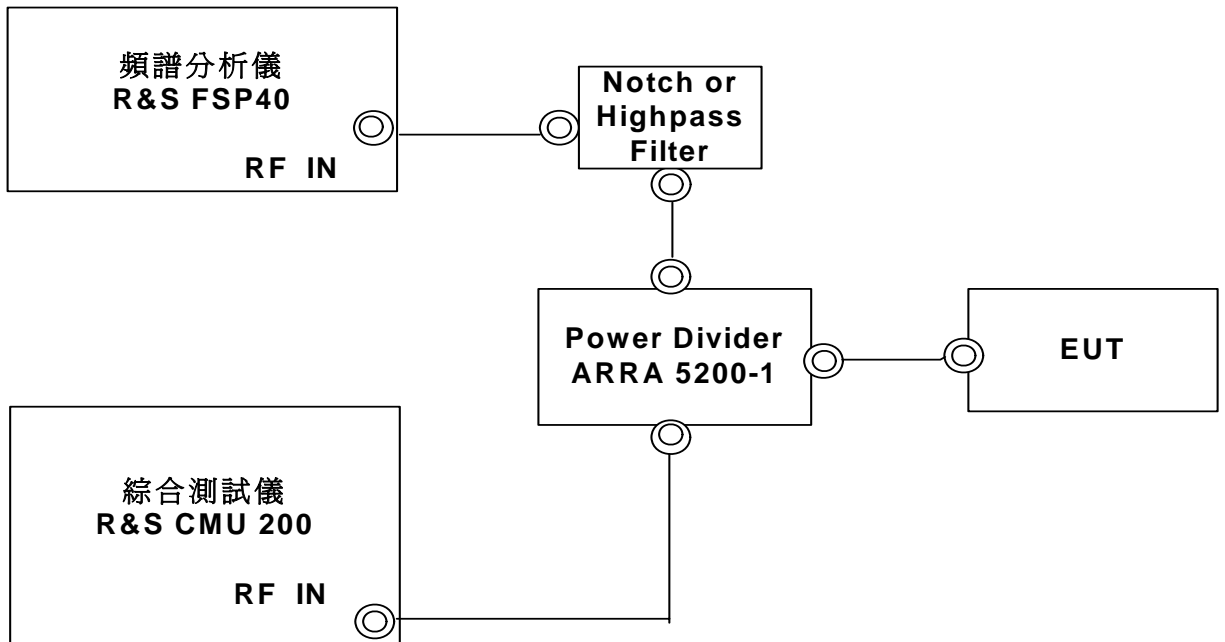
DCS 1800：測試頻道885(1784.8MHz)

項次	檢驗項目	合格標準	檢驗數據	結果判定
1	工作頻帶 (n = 512 ~ 885)	Tx : 1710.2 + 0.2*(n - 512)MHz	1710.2 ~ 1784.8 MHz	合格
		Rx : 1805.2 + 0.2*(n - 512)MHz	1805.2 ~ 1879.8 MHz	
2	收發頻率間隔	95 MHz	95 MHz	合格
3	頻道間隔	200 kHz	200 kHz	合格
4	最大發射輸出功率	30dBm(Class 1) 24dBm(Class 2) 36dBm(Class 3)	28.49 dBm (Class 1) 容許度：@ Level 0 ≤ ±2dB以內 叢訊功率時間關係圖參照5.7	合格
5	發射機頻率誤差	頻率誤差(Hz)：≤180 Hz	29 Hz 參照5.8	合格
6	發射射頻頻譜	偏移載波頻率在100~1800kHz內 調變頻譜(dB) 功率轉換瞬態(dBm) 限制值參照6.5及6.6	參照5.9	合格
		偏移載波頻率在100~1800kHz外 調變頻譜(dB)	參照5.10	
7	混附波輻射(dBm)	連線狀態時 限制值參照6.3	參照5.11	合格
		空閒狀態時 限制值參照6.4	參照5.12	

3. 檢驗接續圖



一般特性接續圖



混附波輻射接續圖

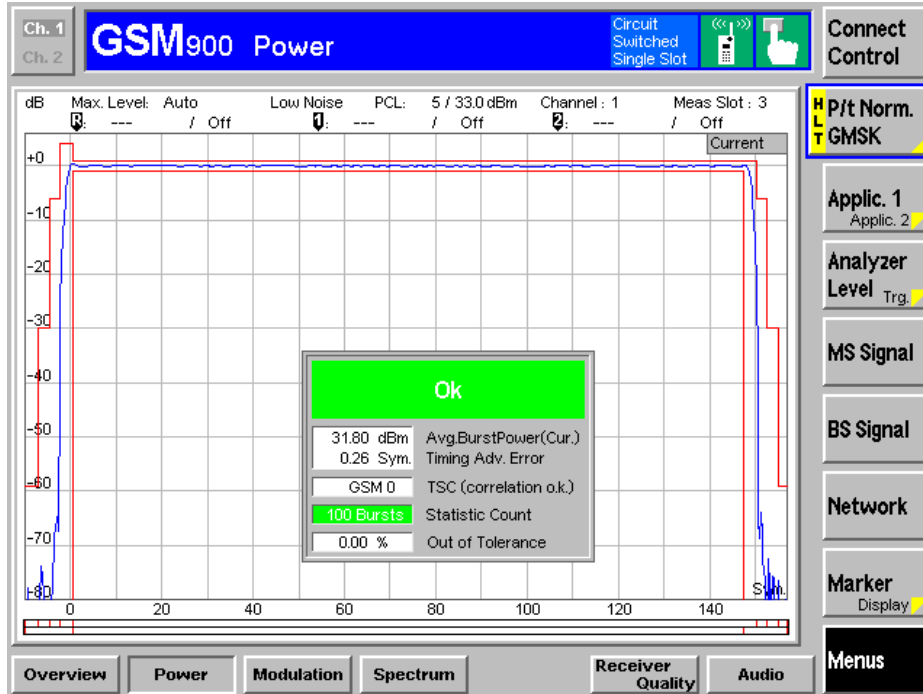


4. 檢驗使用儀器

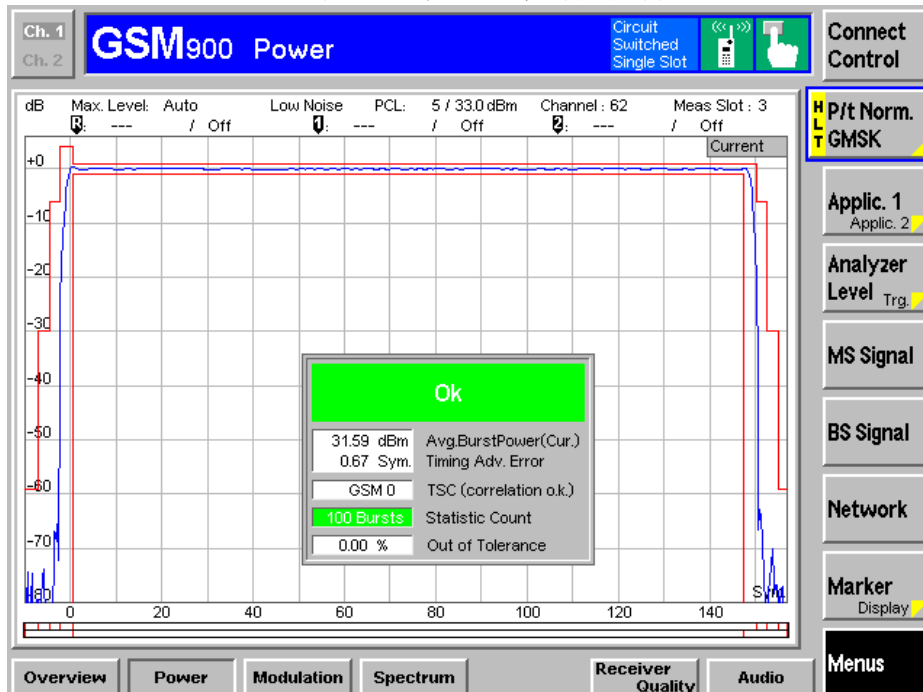
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Thermal Chamber	Tenyi technology	TTH-D35P	TBN-930701	N/A	Aug. 02, 2007	Aug. 01, 2008	Conduction (TH02-HY)
Spectrum	R&S	FSP40	100055	9KHz~40GHz	Jun. 25, 2007	Jun. 24, 2008	Conduction (TH02-HY)
Bluetooth Test	ANRITSU	MT8852A	6K00003939	N/A	N/A	N/A	Conduction (TH02-HY)
Power Divider	ARRA	5200-1	3871	N/A	Oct. 01, 2007	Sep. 30, 2008	Conduction (TH02-HY)
DC Power Supply	TOPWARD	3303D	740889	N/A	May 25, 2007	May 24, 2009	Conduction (TH02-HY)
Power Meter	Agilent	E4416A	GB41292344	N/A	Feb. 08, 2007	Feb. 07, 2008	Conduction (TH02-HY)
Power Sensor	Agilent	E9327A	US40441548	N/A	Feb. 08, 2007	Feb. 07, 2008	Conduction (TH02-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211028	9KHz-26.5GHz	Jul. 27, 2006	Jul. 26, 2008	Radiation (05CH02-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2892	25MHz -2GHz	Jul. 20, 2006	Jul. 19, 2008	Radiation (05CH02-HY)
Double Ridge Horn Antenna	Com-Power	AH118	071027	1G-18G	Apr. 14, 2007	Apr. 13, 2009	Radiation (05CH02-HY)
Double Ridge Horn Antenna	Training Research	AF-0801	95119	8G~18G	Nov. 27, 2006	Nov. 26, 2008	Radiation (05CH02-HY)
Amplifier	Mini Circuit	ZKL-2	D072104	30~2000MHz	Nov. 10, 2007	Nov. 09, 2008	Radiation (05CH02-HY)
DC Power Supply	Topward	3303D	740889	N/A	N/A	N/A	Radiation (05CH02-HY)
Base Station Simulator	R & S	CMU200	103937	Third-Band	Oct. 19, 2007	Oct. 17, 2008	Radiation (05CH02-HY)

5. 檢驗數據

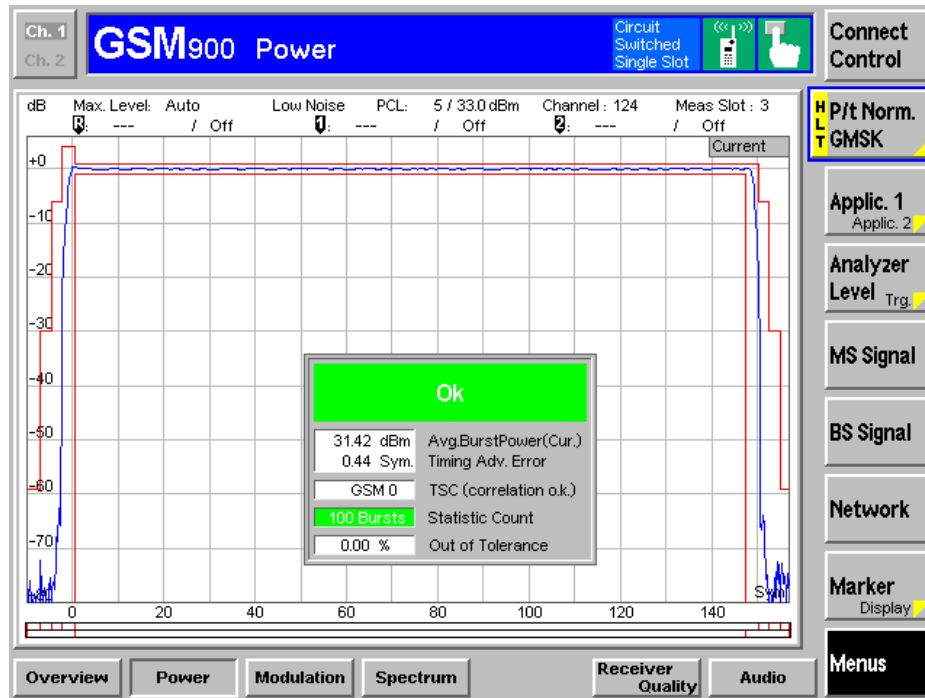
5.1 GSM 900 叢訊功率時間關係圖



圖一 低頻道叢訊功率時間關係圖

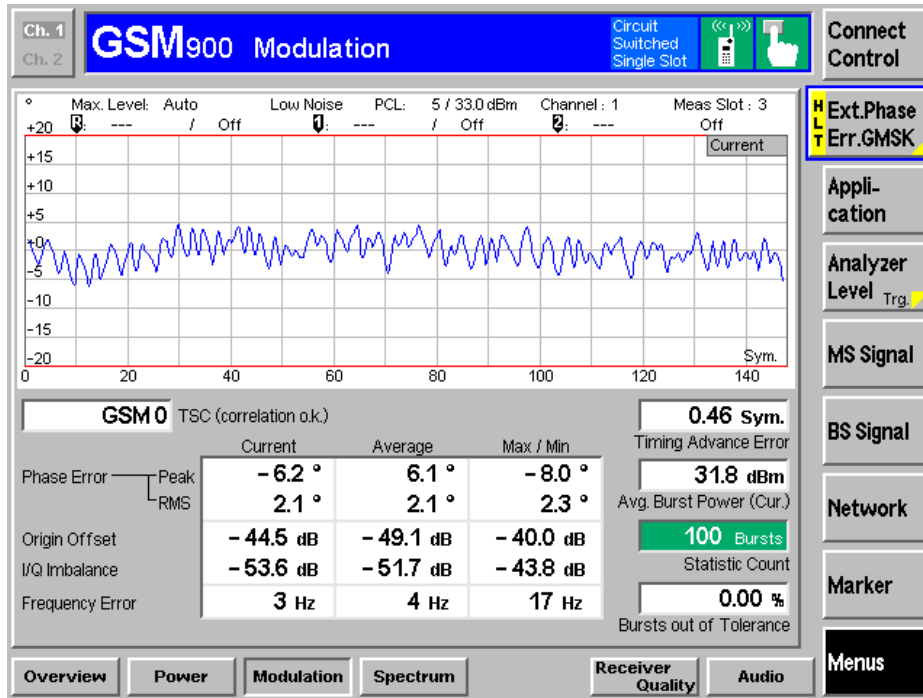


圖二 中間頻道叢訊功率時間關係圖

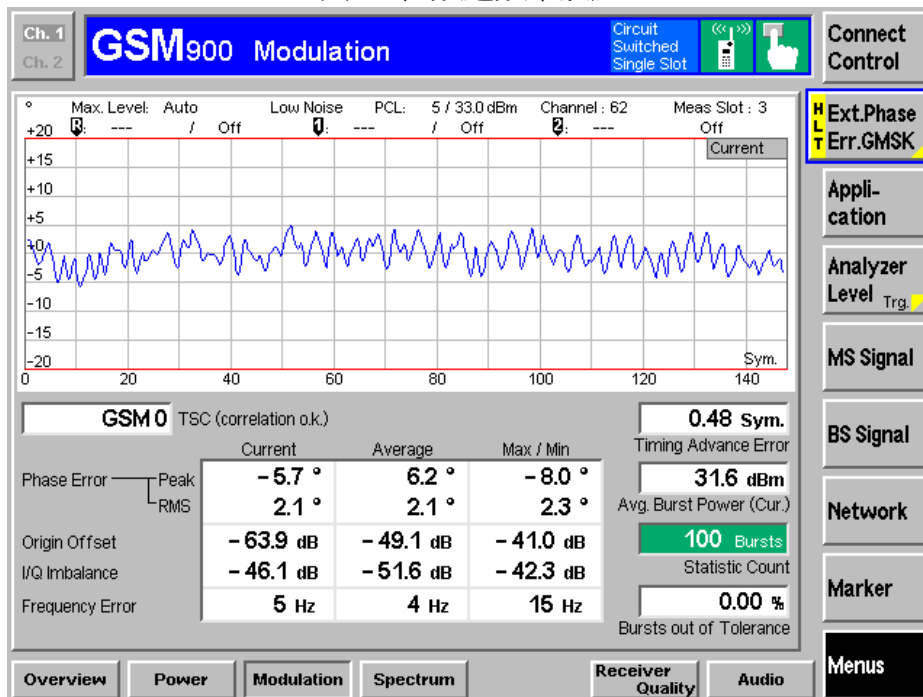


圖三 高頻道叢訊功率時間關係圖

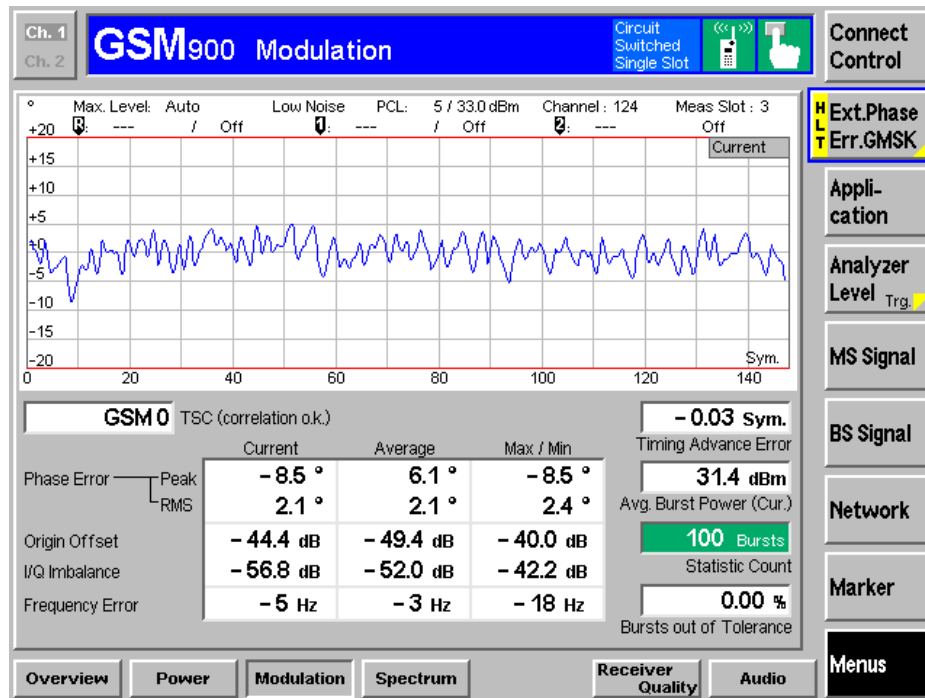
5.2 GSM 900 發射機頻率誤差



圖一 低頻道頻率誤差

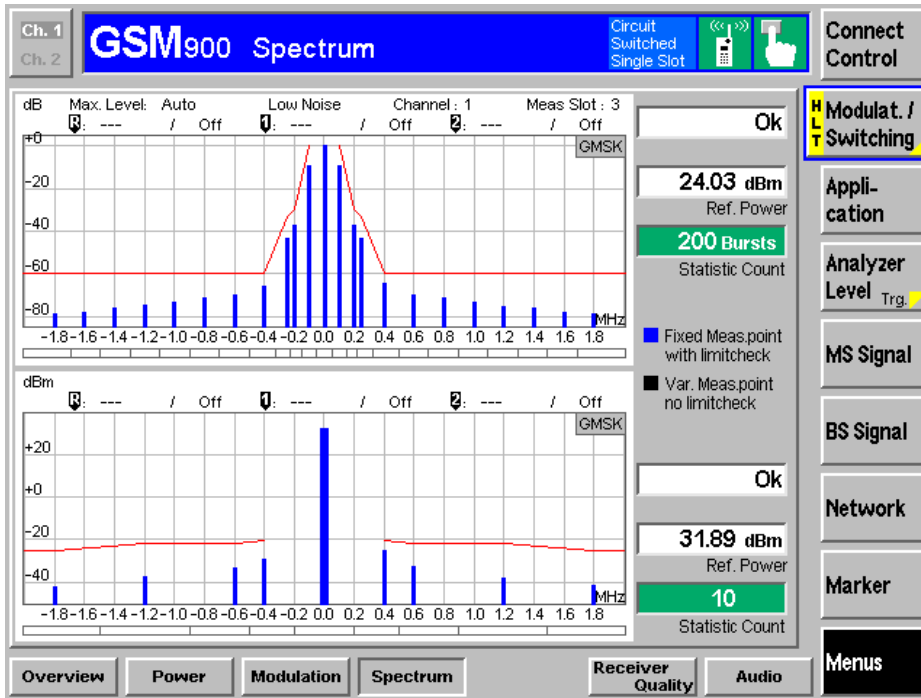


圖二 中間頻道頻率誤差

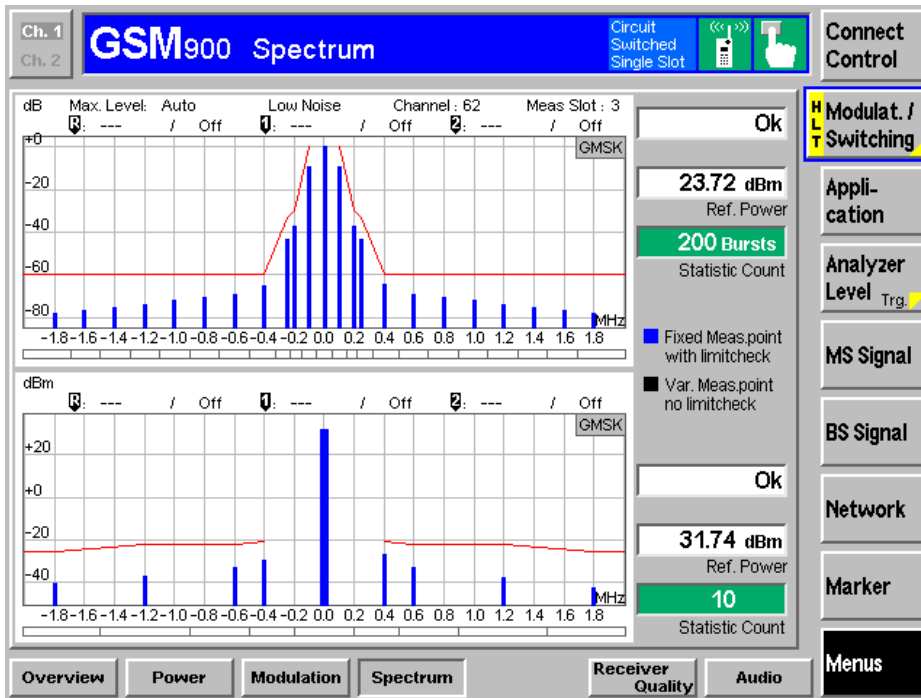


圖三 高頻道頻率誤差

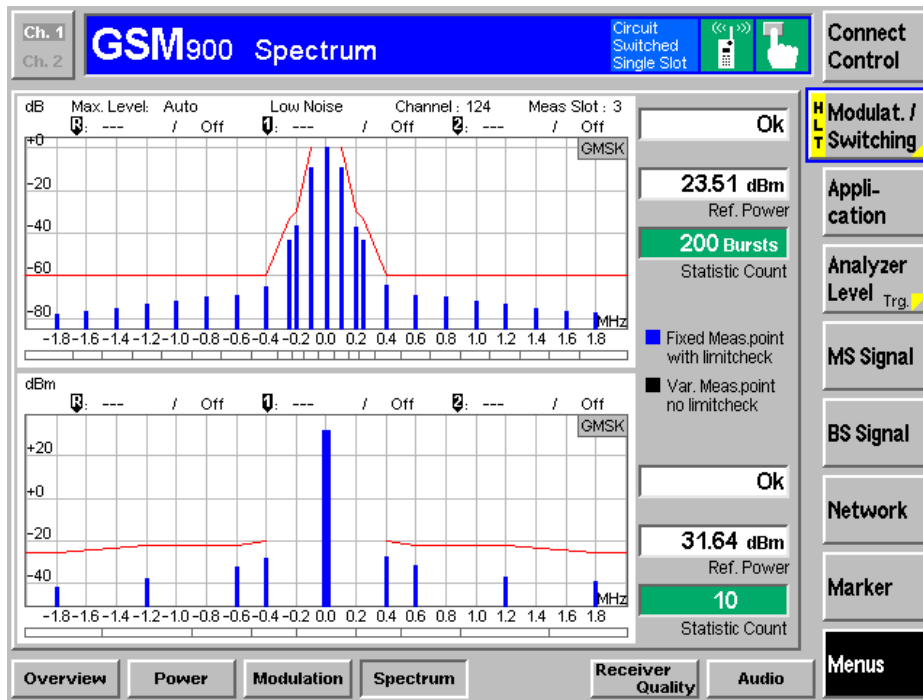
5.3 GSM 900 發射射頻頻譜(載波頻率在 100~1800kHz 以內)



圖一 低頻道發射射頻頻譜



圖二 中間頻道發射射頻頻譜



圖三 高頻道發射射頻頻譜

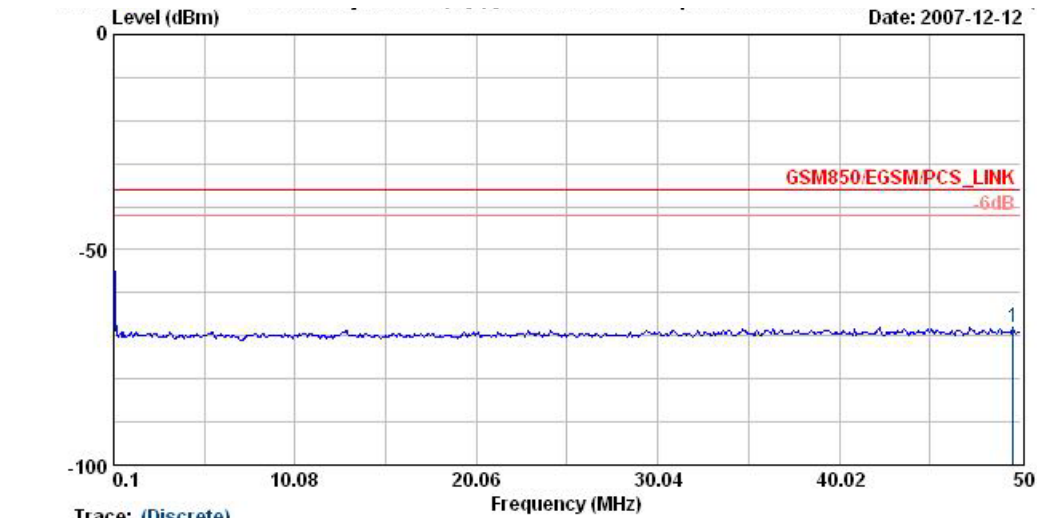


5.4 GSM 900 發射射頻頻譜(載波頻率在 100~1800kHz 以外)

GSM 900						
測試頻道	載波峰值	量測頻段		最大值	與載波差值	限制值
1	24.03	-1.8MHz	888.4	-52.65dBm	-76.68dBm	-63 dB
		1.8MHz	892.0	-51.65dBm	-75.68dBm	-63 dB
		-3.0MHz	887.2	-59.44dBm	-83.47dBm	-65 dB
		3.0MHz	893.2	-59.39dBm	-83.42dBm	-66 dB
		-6.0MHz	884.2	-62.00dBm	-86.03dBm	-71 dB
		6.0MHz	896.2	-62.86dBm	-86.89dBm	-71 dB
62	23.72	-1.8MHz	900.6	-52.08dBm	-75.80dBm	-63 dB
		1.8MHz	904.2	-51.75dBm	-75.47dBm	-63 dB
		-3.0MHz	899.4	-58.44dBm	-82.16dBm	-65 dB
		3.0MHz	905.4	-58.75dBm	-82.47dBm	-65 dB
		-6.0MHz	896.4	-63.20dBm	-86.92dBm	-71 dB
		6.0MHz	908.4	-62.86dBm	-86.58dBm	-71 dB
124	23.51	-1.8MHz	913.0	-51.41dBm	-74.92dBm	-63 dB
		1.8MHz	916.6	-51.38dBm	-74.89dBm	-63 dB
		-3.0MHz	911.8	-58.51dBm	-82.02dBm	-65 dB
		3.0MHz	917.8	-57.87dBm	-81.38dBm	-65 dB
		-6.0MHz	908.8	-63.20dBm	-86.71dBm	-71 dB
		6.0MHz	920.8	-63.16dBm	-86.67dBm	-71 dB

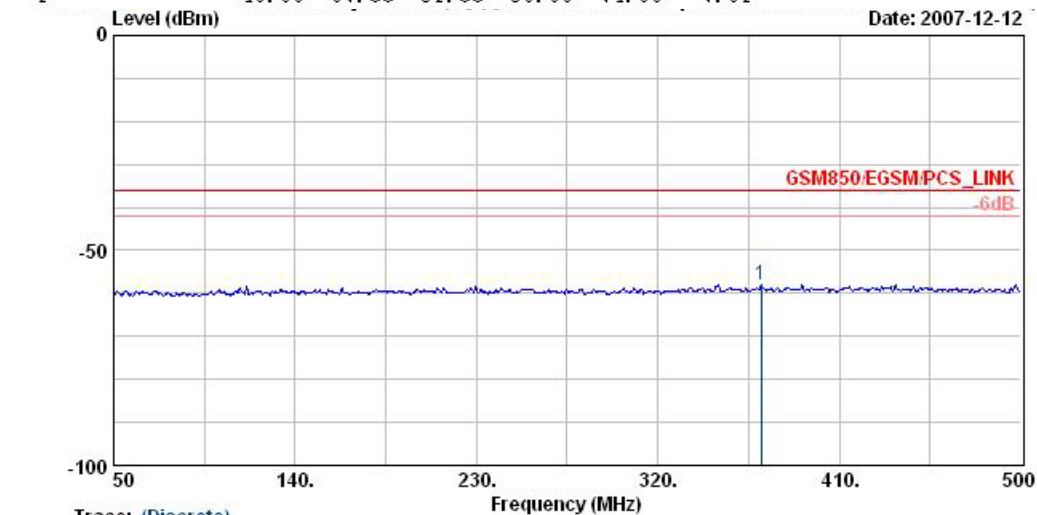


5.5 GSM 900 混附波輻射連線狀態



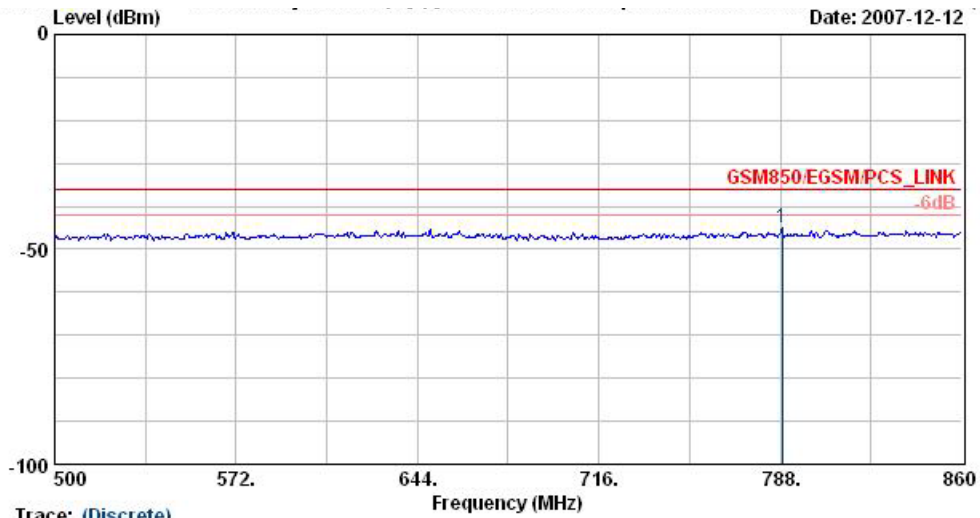
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	49.60	-67.88	-31.88	-36.00	-74.90	7.01	



Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Link Mode Ch62

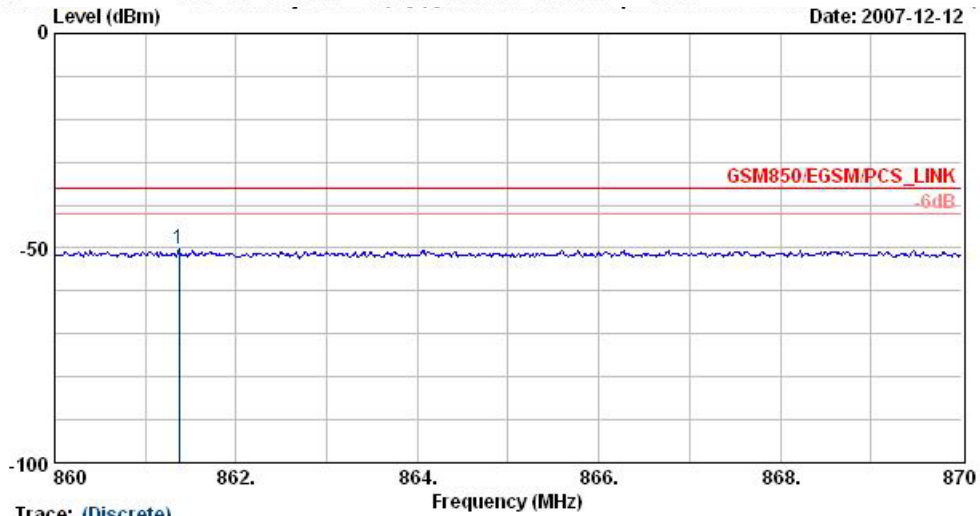
	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	371.30	-57.84	-21.84	-36.00	-64.55	6.71	



Trace: (Discrete)
 Site : 05CH02-RY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase

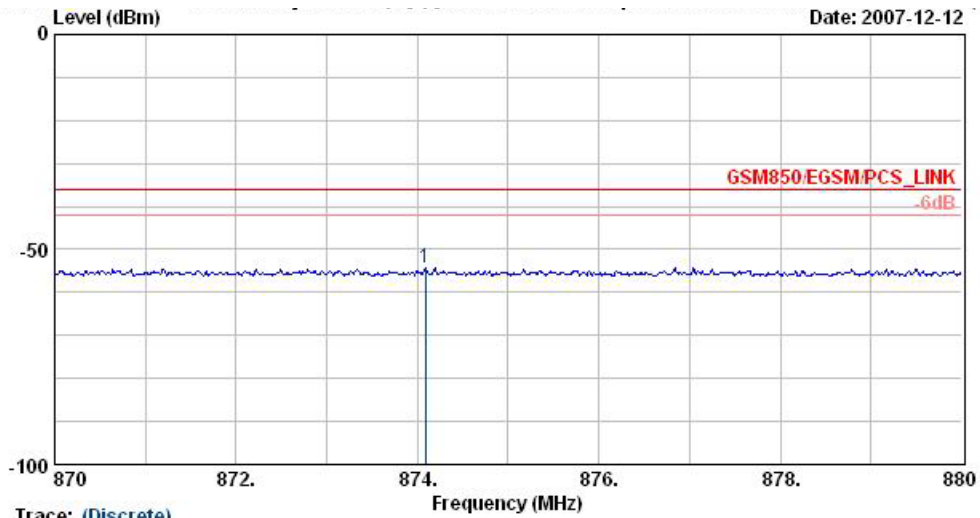
1 @	788.72	-45.14	-9.14	-36.00	-52.14	7.00	
-----	--------	--------	-------	--------	--------	------	--



Trace: (Discrete)
 Site : 05CH02-RY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

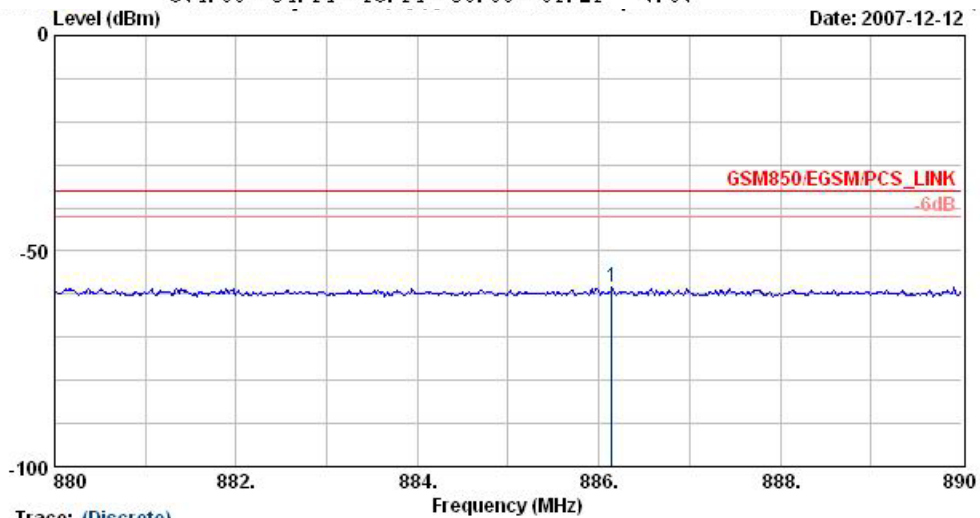
	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase

1	861.37	-50.25	-14.25	-36.00	-57.31	7.06	
---	--------	--------	--------	--------	--------	------	--



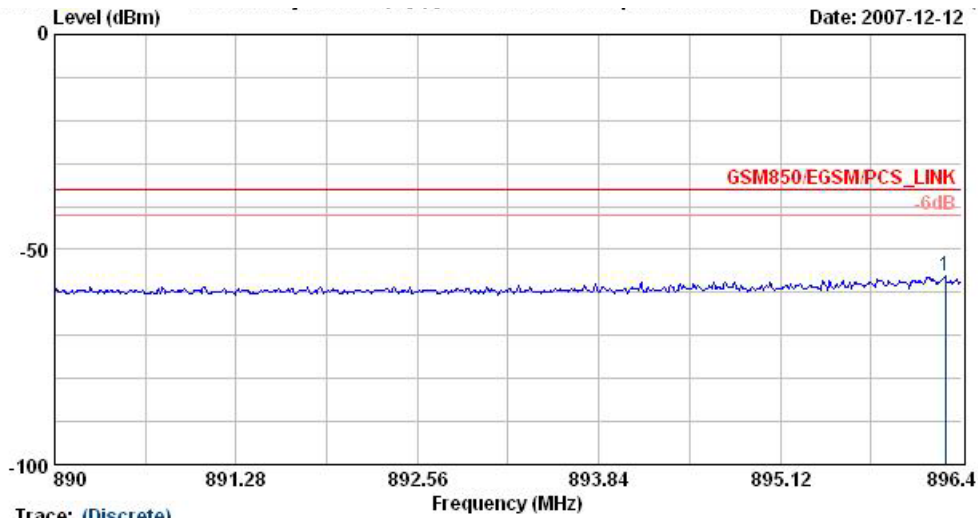
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	874.09	-54.14	-18.14	-36.00	-61.21	7.07	



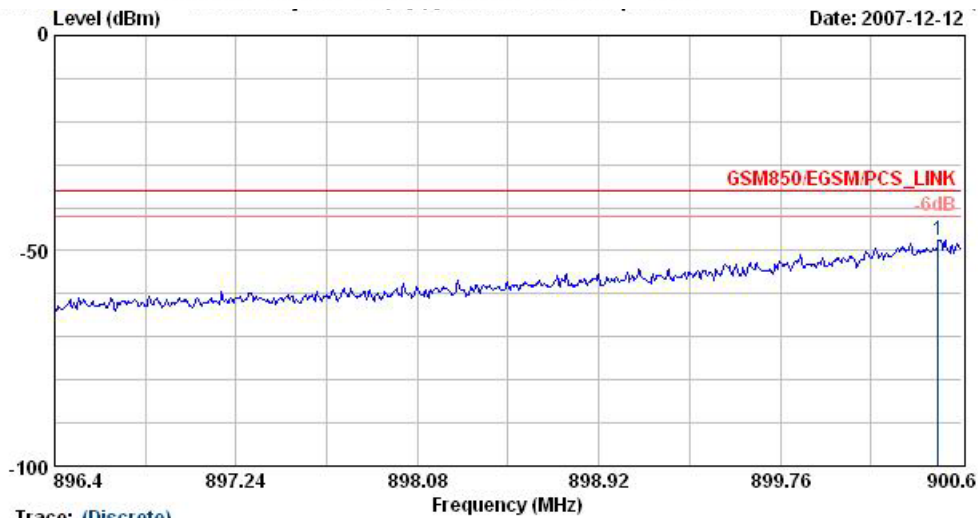
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	886.14	-58.42	-22.42	-36.00	-65.50	7.08	



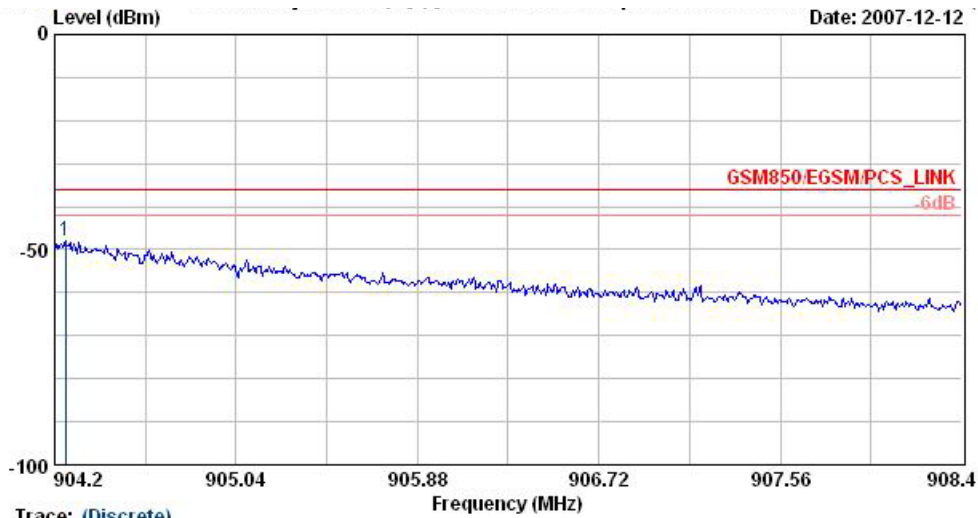
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	896.28	-56.12	-20.12	-36.00	-63.21	7.09	



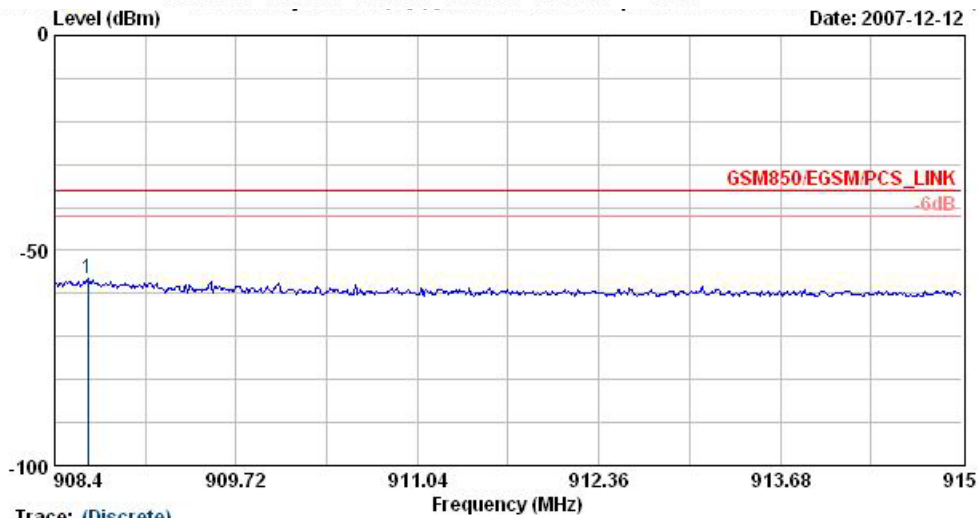
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	900.49	-47.53	-11.53	-36.00	-54.62	7.09	



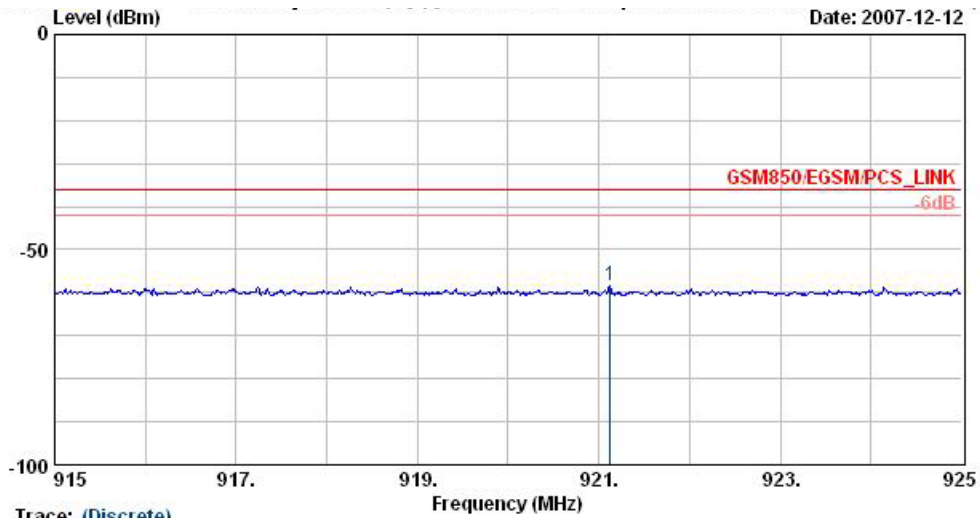
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	904.25	-48.07	-12.07	-36.00	-55.16	7.10	



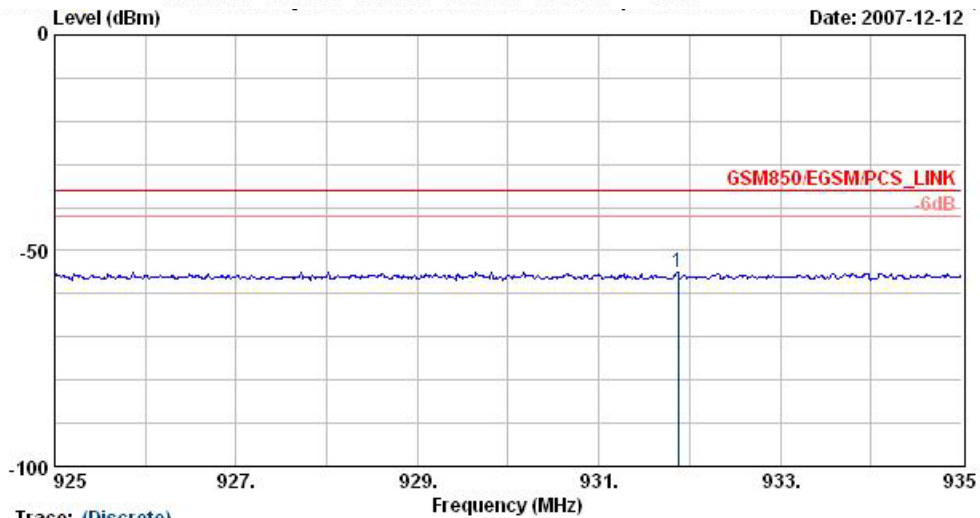
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	908.64	-56.56	-20.56	-36.00	-63.66	7.10	



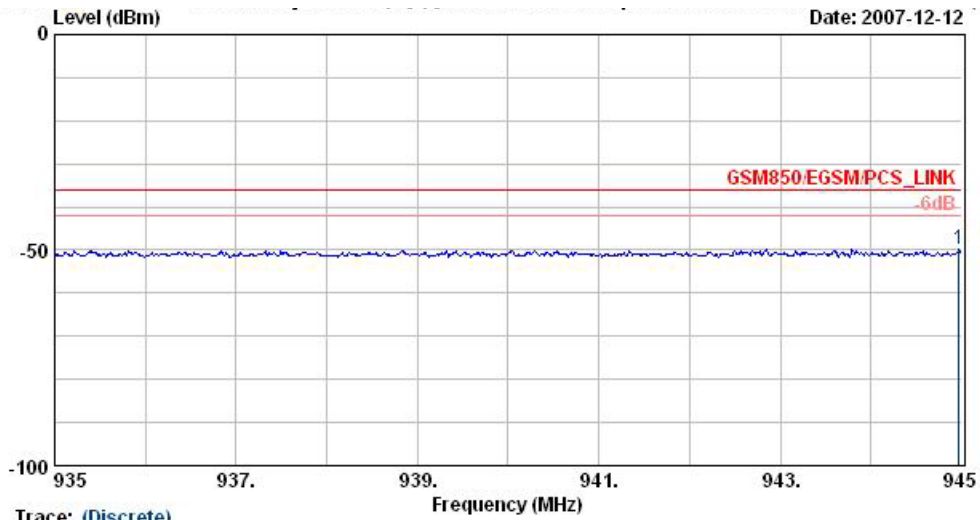
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	921.12	-58.47	-22.47	-36.00	-65.57	7.10	



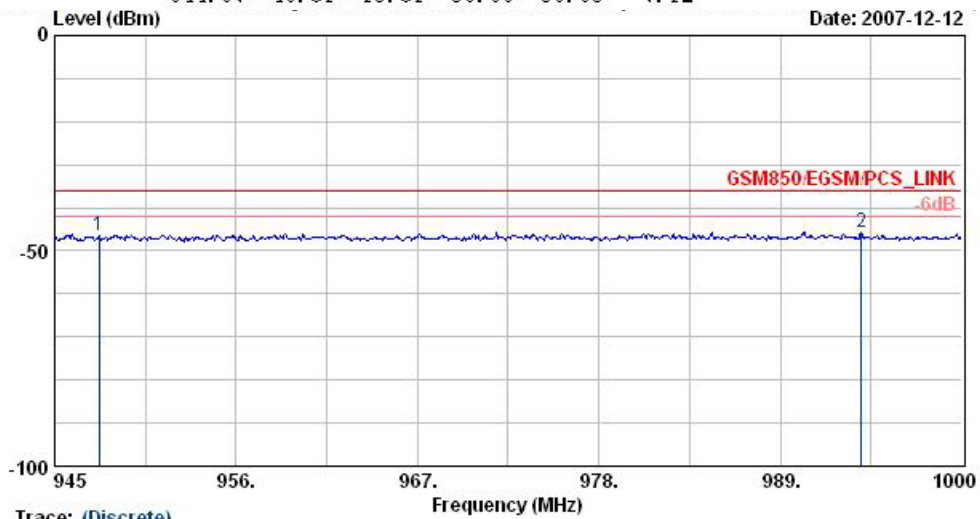
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	931.87	-54.93	-18.93	-36.00	-62.04	7.11	



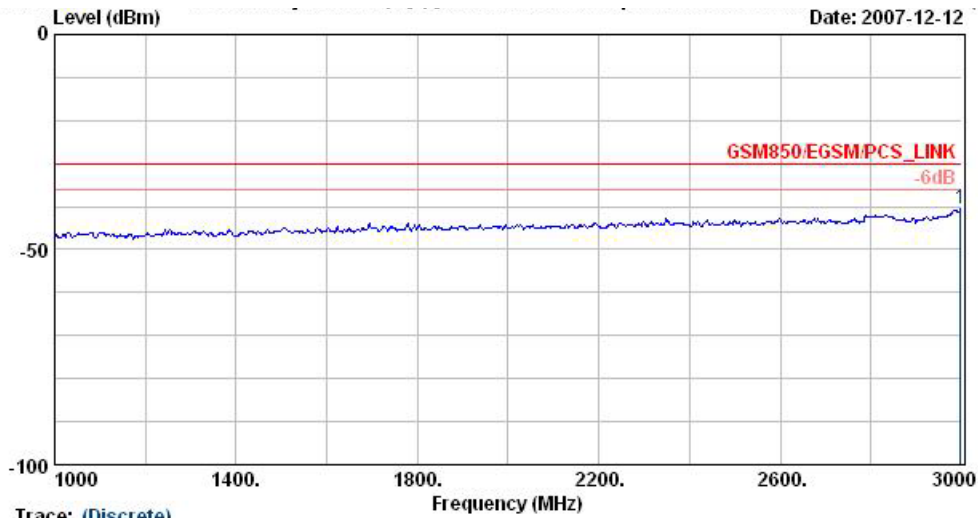
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	944.97	-49.81	-13.81	-36.00	-56.93	7.12	



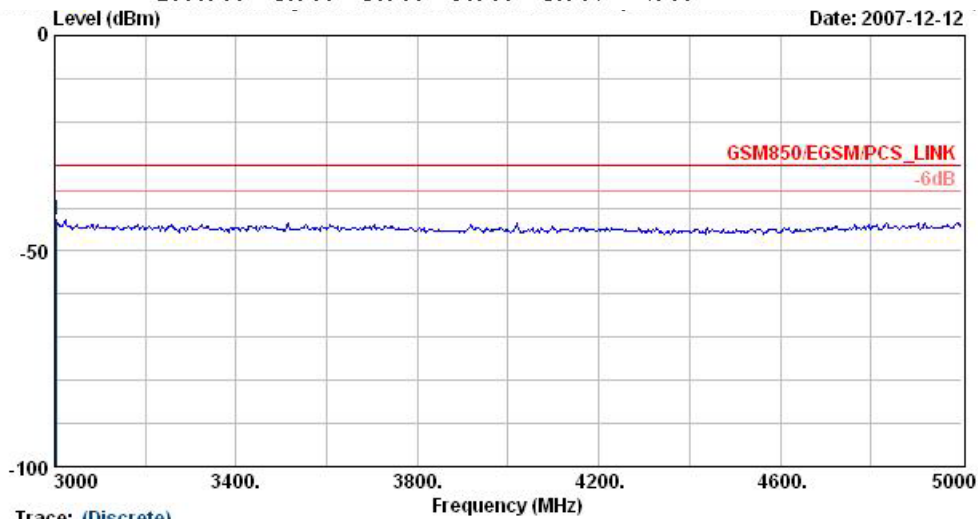
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	947.70	-46.60	-10.60	-36.00	-53.72	7.12	
2 @	993.90	-45.74	-9.74	-36.00	-52.87	7.13	



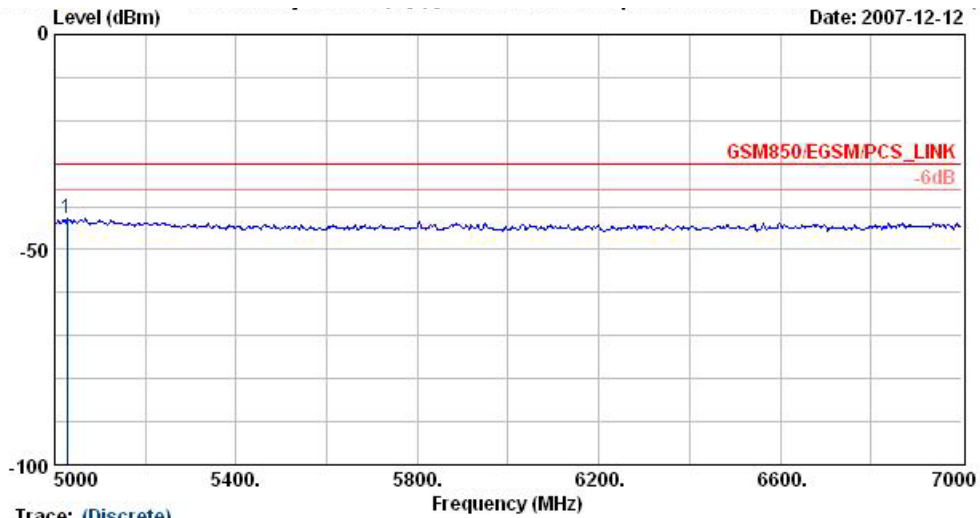
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	2998.00	-40.68	-10.68	-30.00	-48.67	7.99	



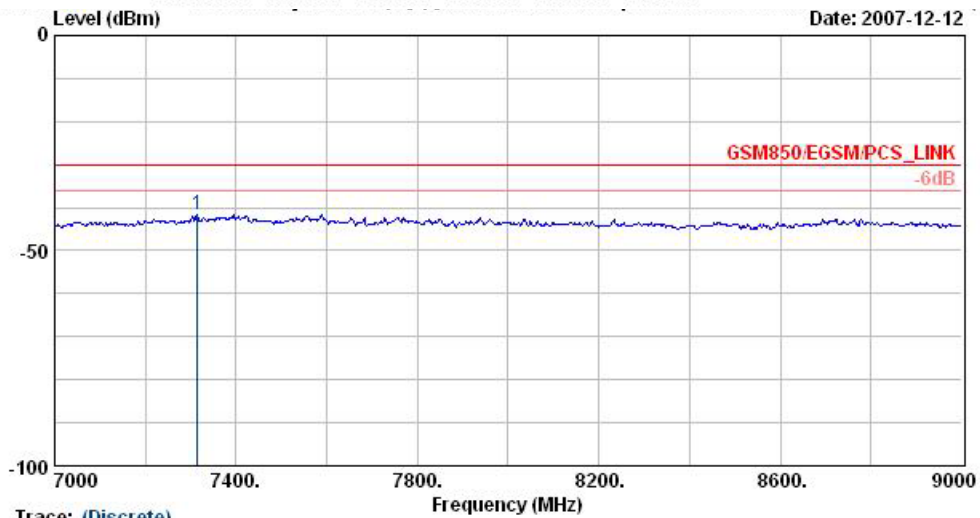
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	3004.00	-42.85	-12.85	-30.00	-50.84	7.99	



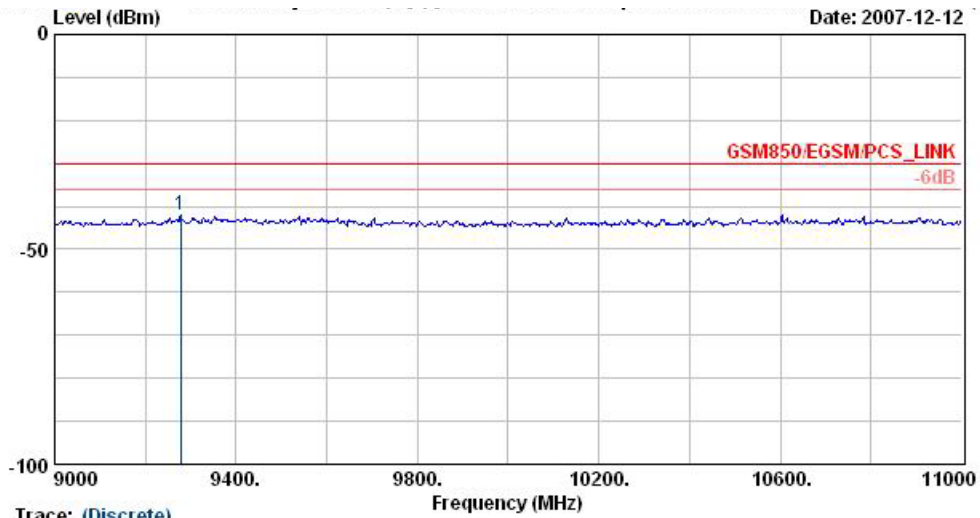
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	5028.00	-42.84	-12.84	-30.00	-52.99	10.15	



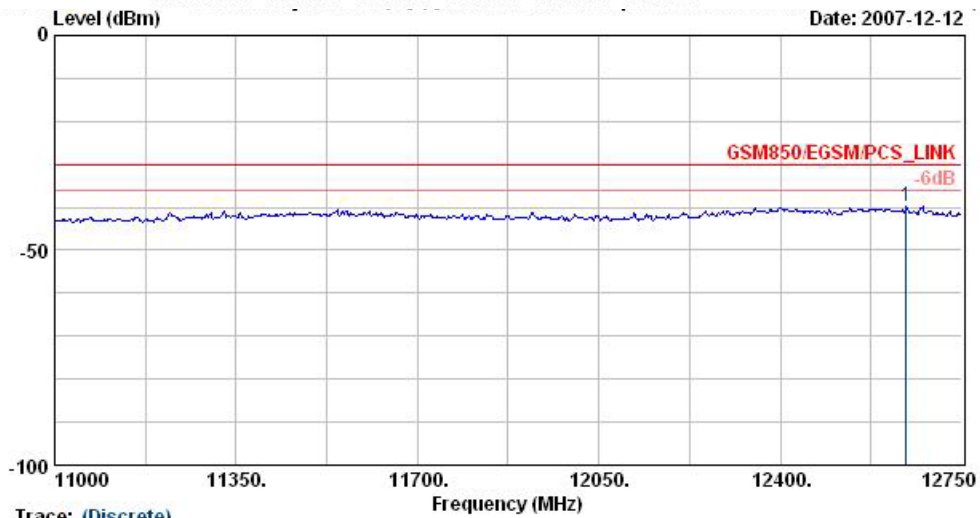
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	7314.00	-41.57	-11.57	-30.00	-51.11	9.54	



Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	9278.00	-41.92	-11.92	-30.00	-52.03	10.11	

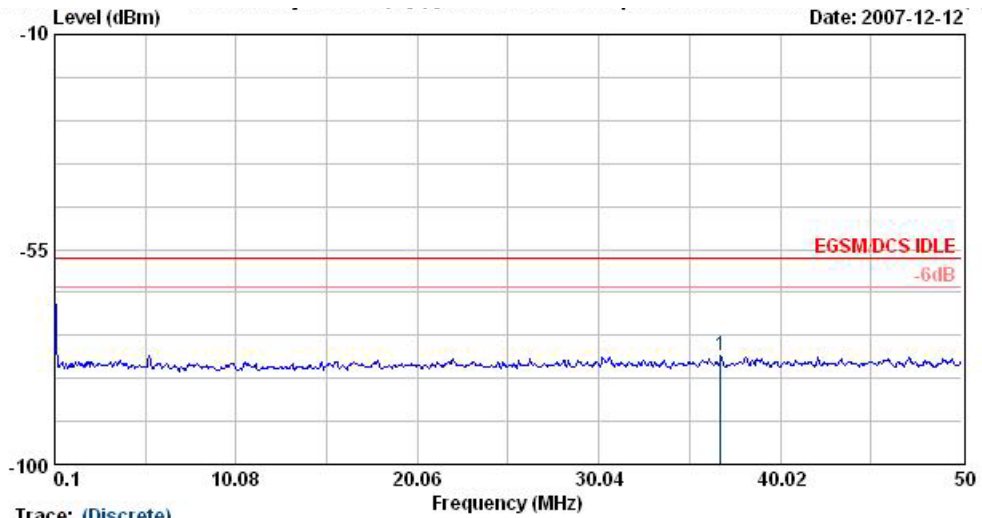


Trace: (Discrete)
 Site : 05CH02-HY
 Condition : GSM850/EGSM/PCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TC 701104
 Mode : GSM 900 Link Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1	12643.25	-39.91	-9.91	-30.00	-51.49	11.58	

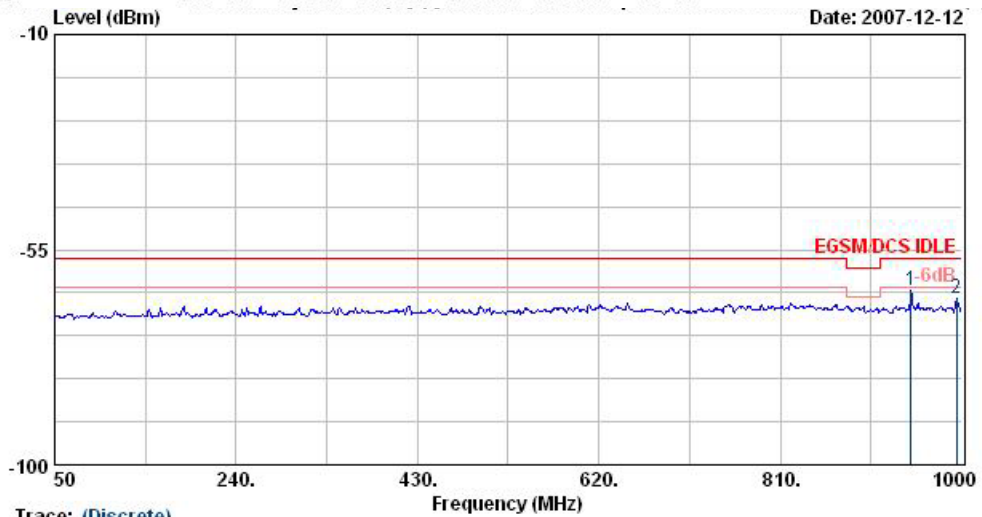


5.6 GSM 900 混附波輻射空閒狀態



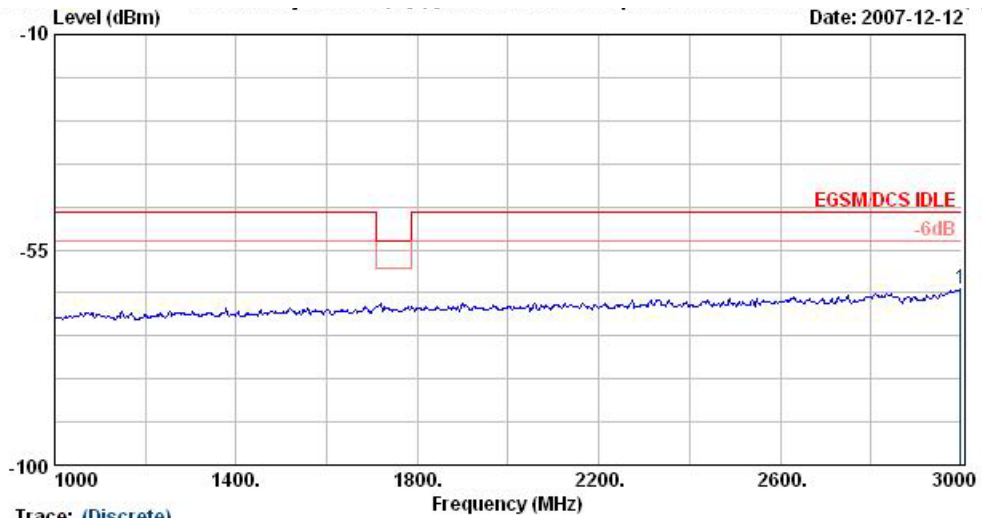
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Idle Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	36.73	-77.23	-20.23	-57.00	-83.96	6.73	



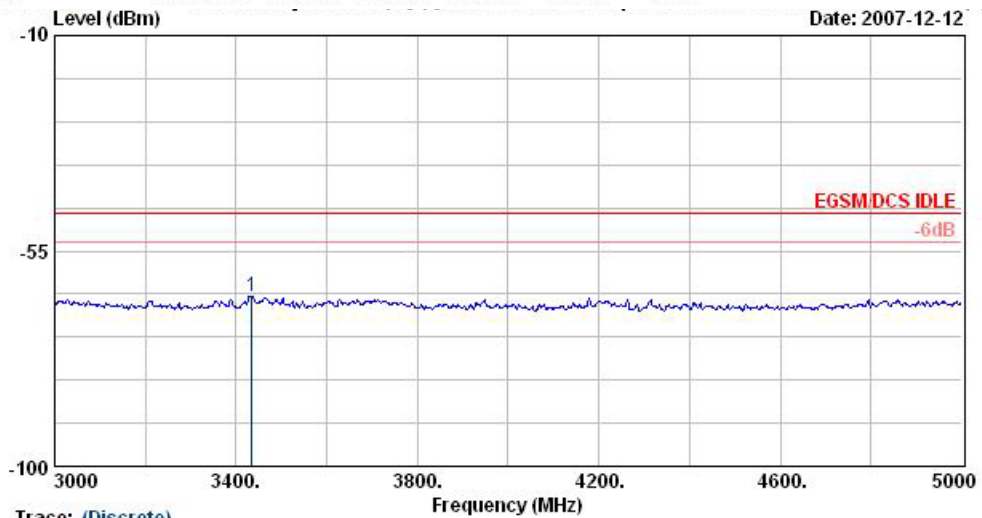
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Idle Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	946.80	-63.42	-6.42	-57.00	-70.54	7.12	
2 @	994.30	-65.33	-8.33	-57.00	-72.47	7.13	



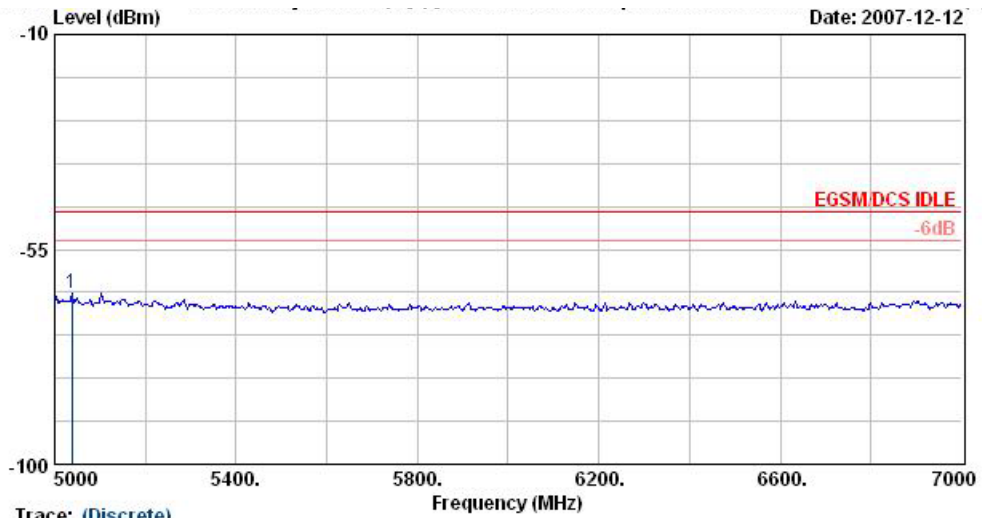
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Idle Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	2998.00	-63.24	-16.24	-47.00	-71.23	7.99	



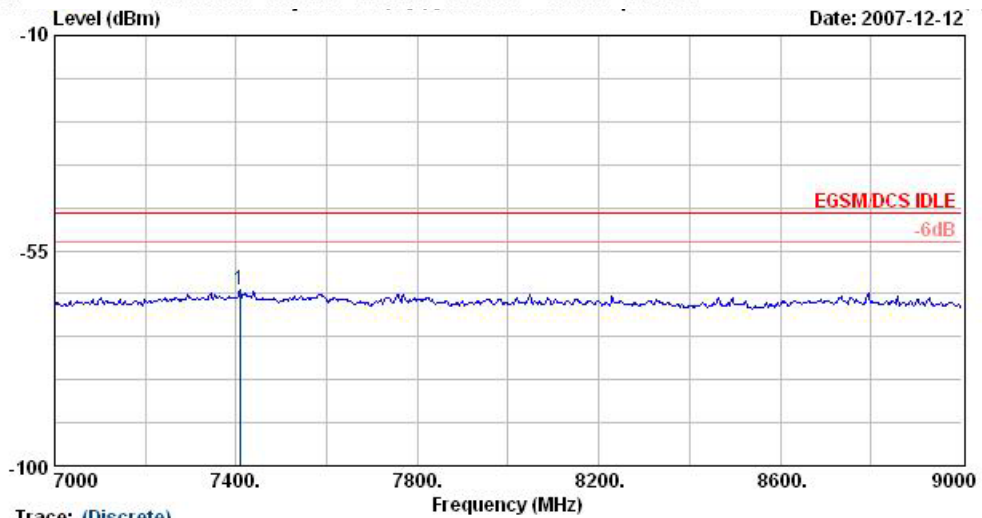
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Idle Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	3434.00	-64.67	-17.67	-47.00	-72.92	8.25	



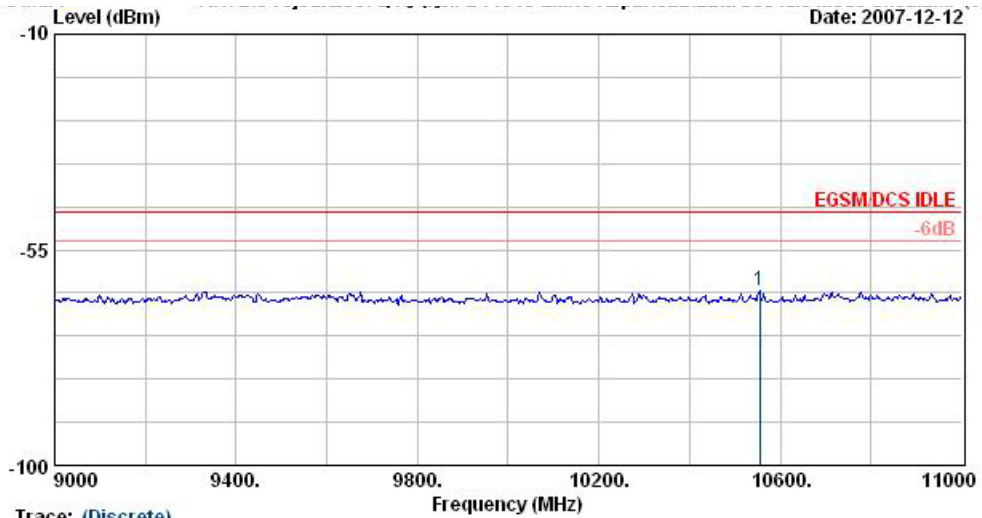
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Idle Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	5038.00	-64.35	-17.35	-47.00	-74.48	10.12	



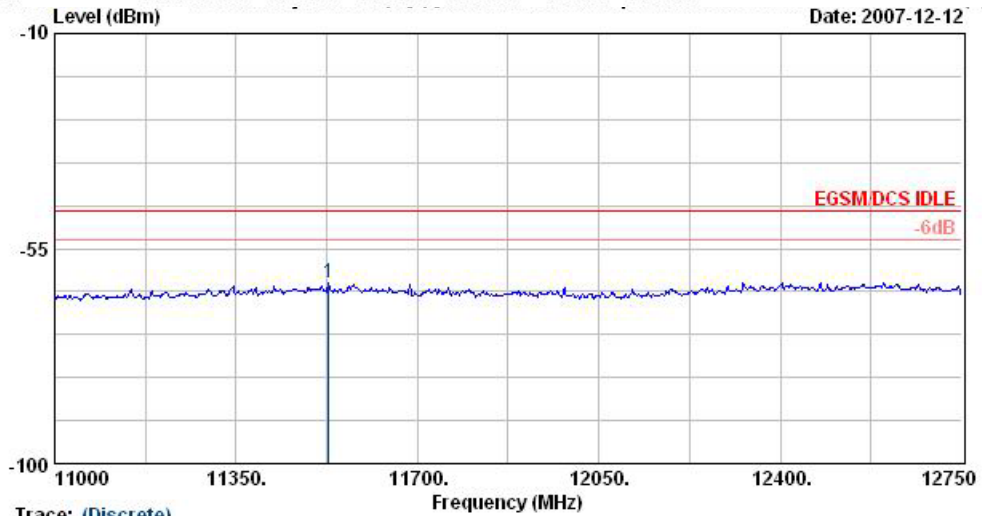
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Idle Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	7408.00	-63.22	-16.22	-47.00	-72.80	9.58	



Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Idle Mode Ch62

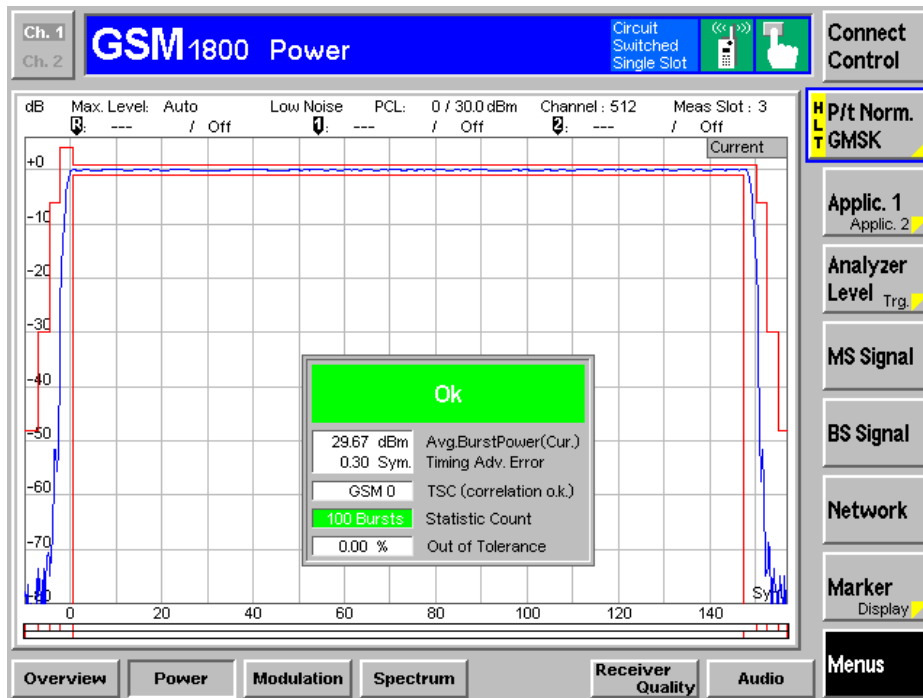
	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	10554.00	-63.57	-16.57	-47.00	-73.62	10.05	



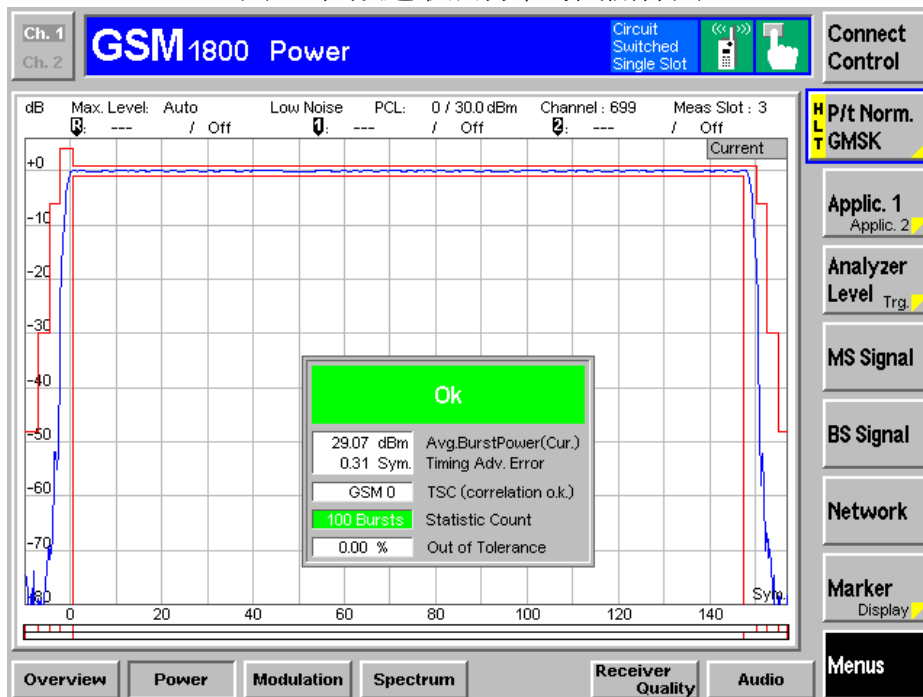
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : GSM 900 Idle Mode Ch62

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	11528.50	-62.11	-15.11	-47.00	-73.48	11.37	

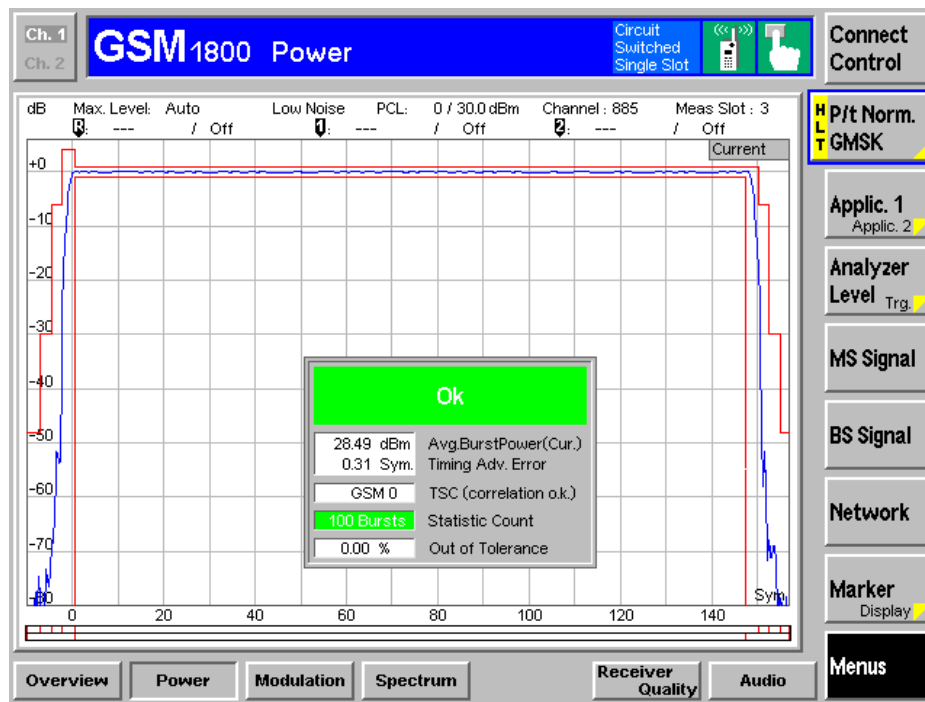
5.7 DCS 1800 叢訊功率時間關係圖



圖一 低頻道叢訊功率時間關係圖

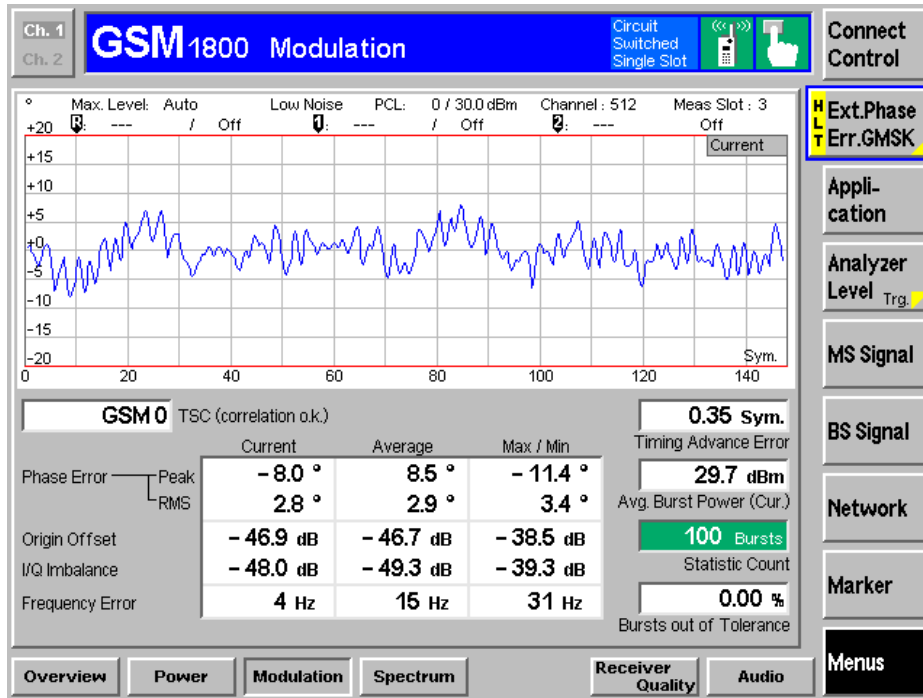


圖二 中間頻道叢訊功率時間關係圖

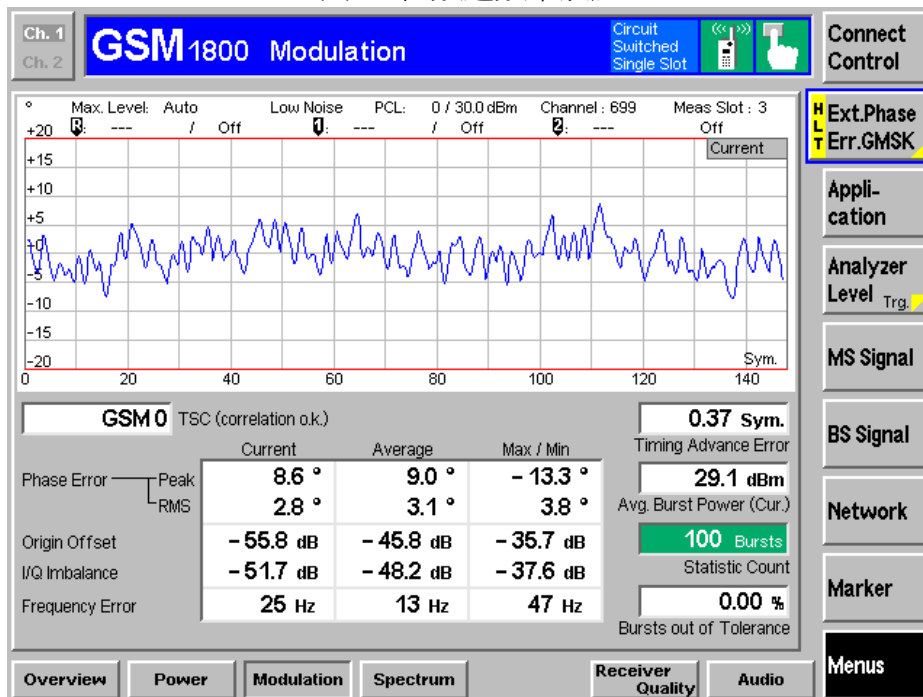


圖三 高頻道叢訊功率時間關係圖

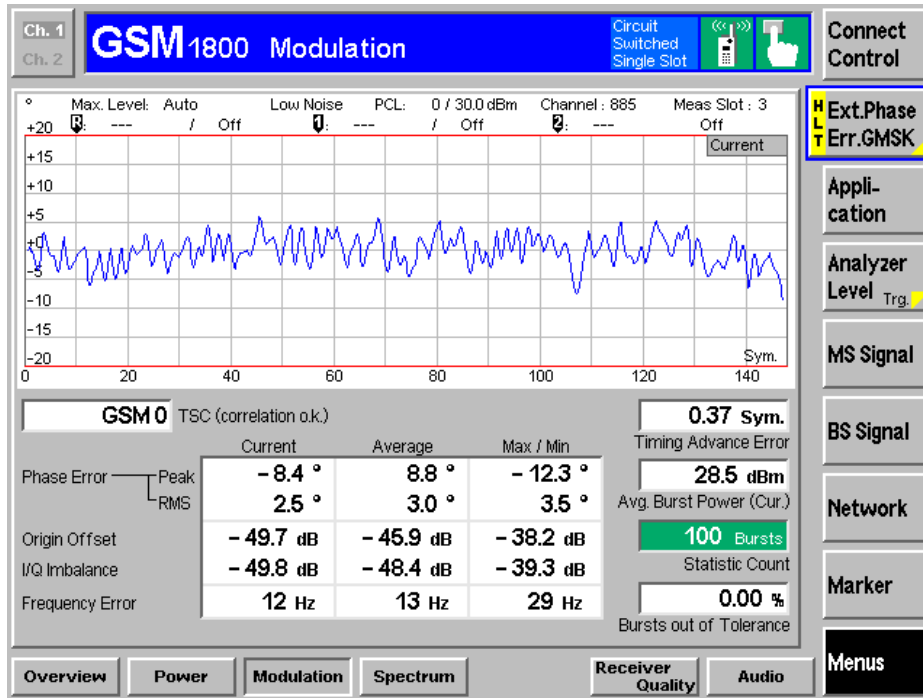
5.8 DCS 1800 發射機頻率誤差



圖一 低頻道頻率誤差

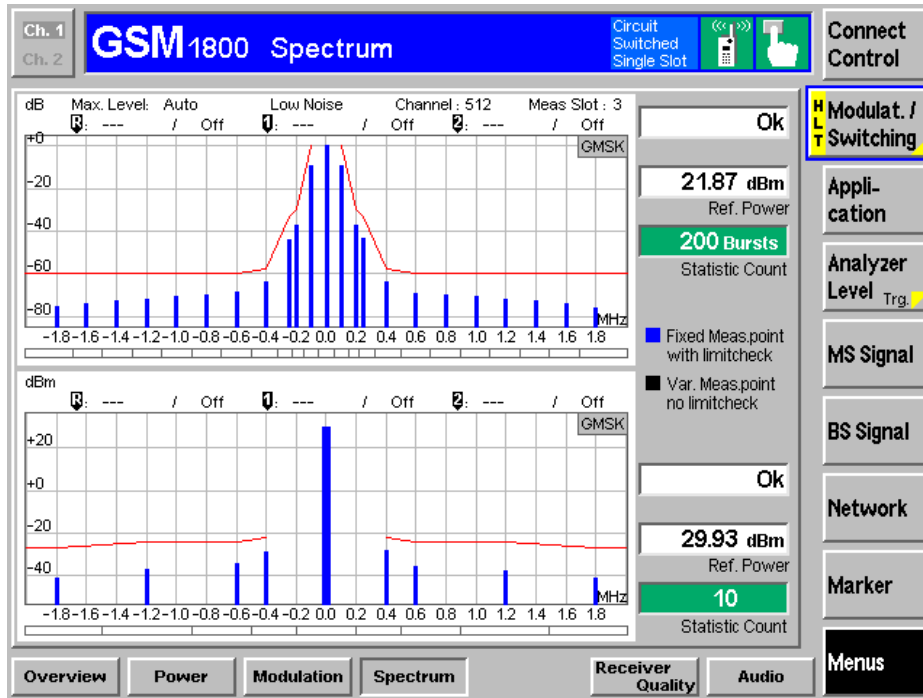


圖二 中間頻道頻率誤差

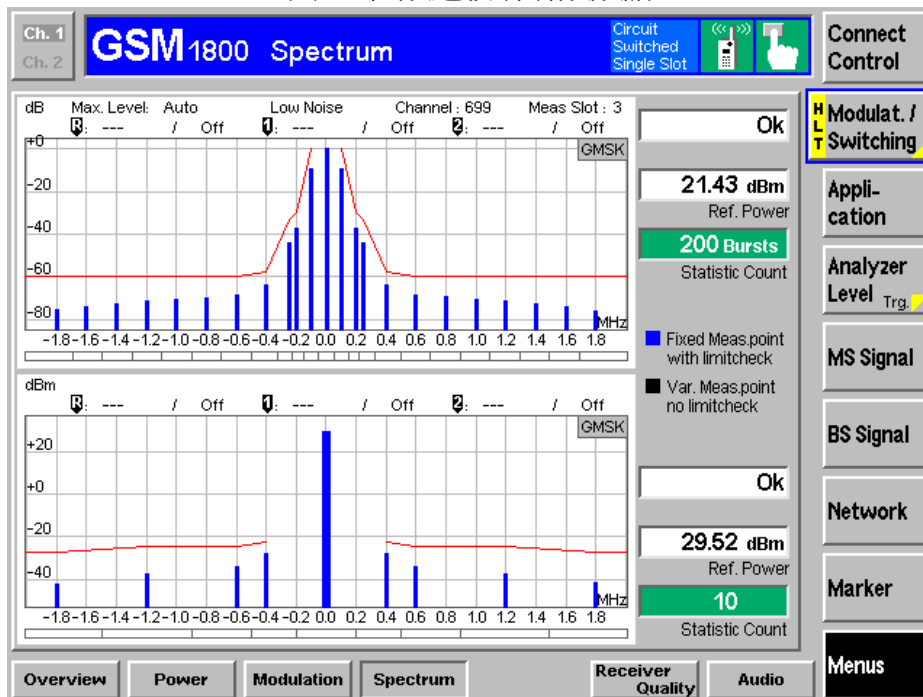


圖三 高頻道頻率誤差

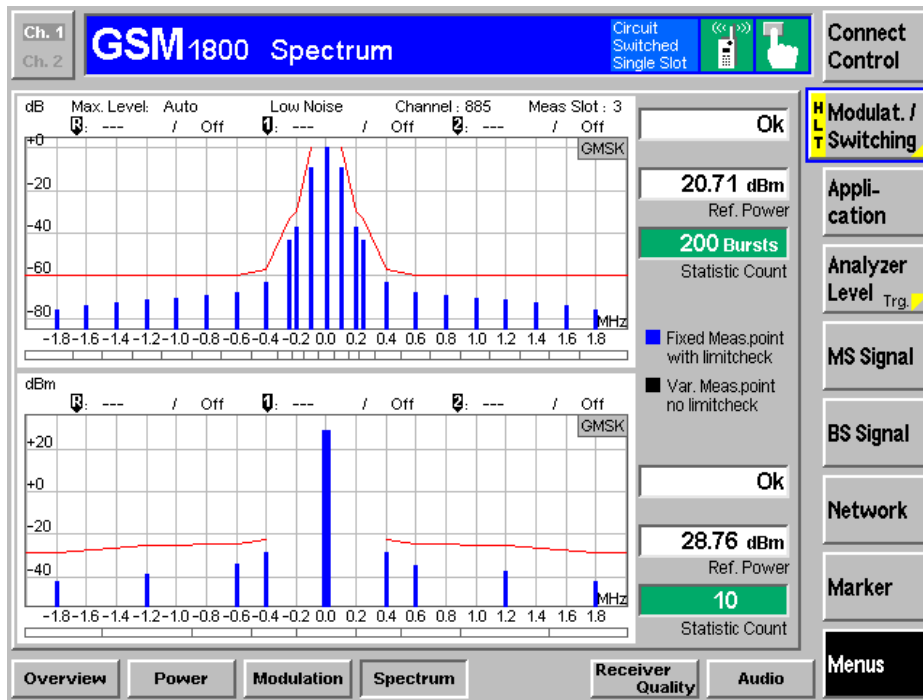
5.9 DCS1800 發射射頻頻譜(載波頻率在 100~1800kHz 以內)



圖一 低頻道發射射頻頻譜



圖二 中間頻道發射射頻頻譜



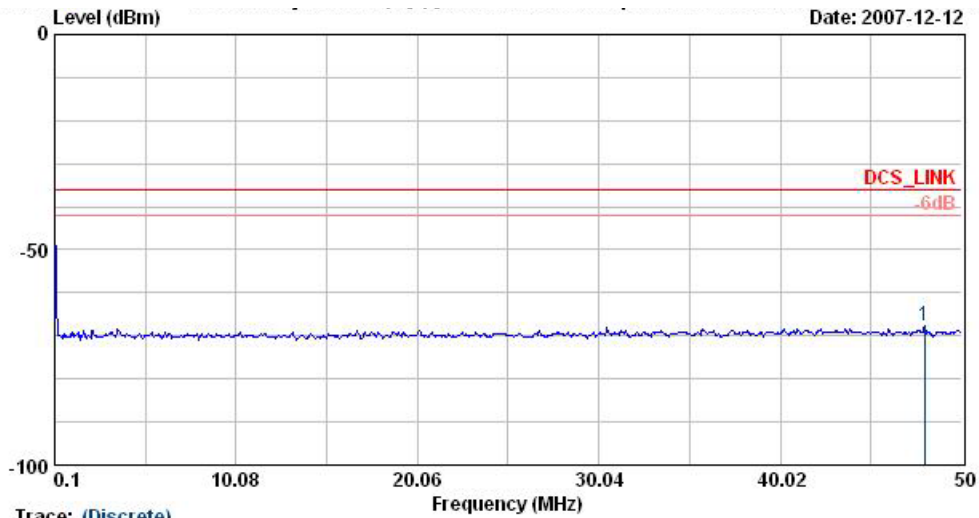
圖三 高頻道發射射頻頻譜

5.10 DCS1800 發射射頻頻譜(載波頻率在 100~1800kHz 以外)

DCS 1800						
測試頻道	載波峰值	量測頻段		最大值	與載波差值	限制值
512	21.87	-1.8MHz	1708.4	-51.51 dBm	-73.38 dB	-65 dB
		1.8MHz	1712.0	-51.30 dBm	-73.17 dB	-65 dB
		-3.0MHz	1707.2	-58.47 dBm	-80.34 dB	-65 dB
		3.0MHz	1713.2	-57.62 dBm	-79.49 dB	-65 dB
		-6.0MHz	1704.2	-62.64 dBm	-84.51 dB	-73 dB
		6.0MHz	1716.2	-61.98 dBm	-83.85 dB	-73 dB
699	21.43	-1.8MHz	1745.8	-50.92 dBm	-72.35 dB	-65 dB
		1.8MHz	1749.4	-51.69 dBm	-73.12 dB	-65 dB
		-3.0MHz	1744.6	-57.50 dBm	-78.93 dB	-65 dB
		3.0MHz	1750.6	-57.86 dBm	-79.29 dB	-65 dB
		-6.0MHz	1741.6	-62.22 dBm	-83.65 dB	-73 dB
		6.0MHz	1753.6	-62.00 dBm	-83.43 dB	-73 dB
885	20.71	-1.8MHz	1783	-52.63 dBm	-73.34 dB	-65 dB
		1.8MHz	1786.6	-52.39 dBm	-73.10 dB	-65 dB
		-3.0MHz	1781.8	-57.95 dBm	-78.66 dB	-65 dB
		3.0MHz	1787.8	-58.80 dBm	-79.51 dB	-65 dB
		-6.0MHz	1778.8	-62.30 dBm	-83.01 dB	-73 dB
		6.0MHz	1790.8	-62.72 dBm	-83.43 dB	-73 dB

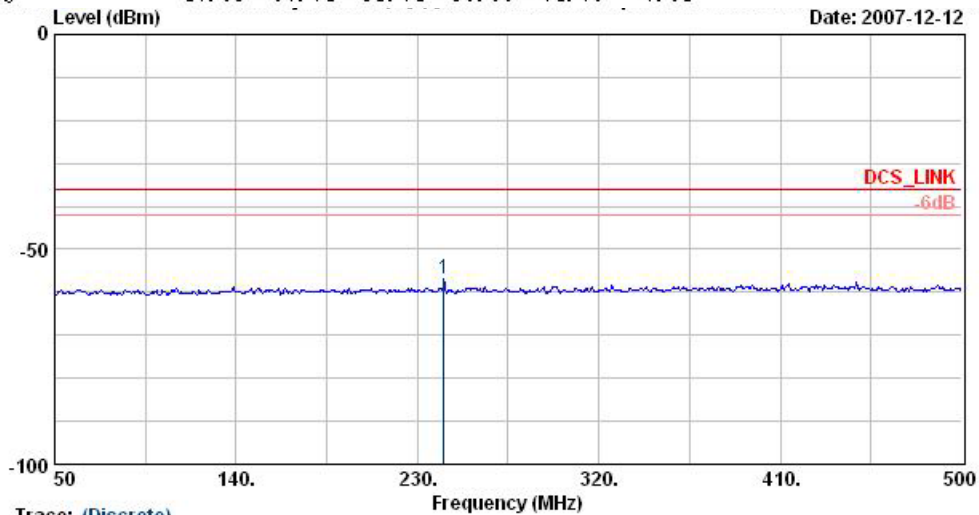


5.11 DCS1800 混附波輻射連線狀態



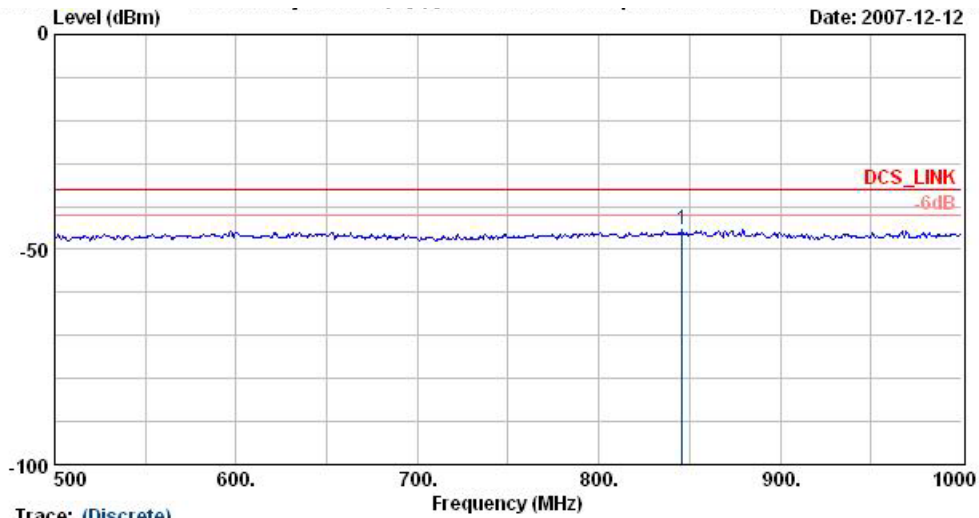
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Pol/Phase
			dB	dBm	dBm	dB	
1 @	47.95	-67.74	-31.74	-36.00	-74.76	7.01	



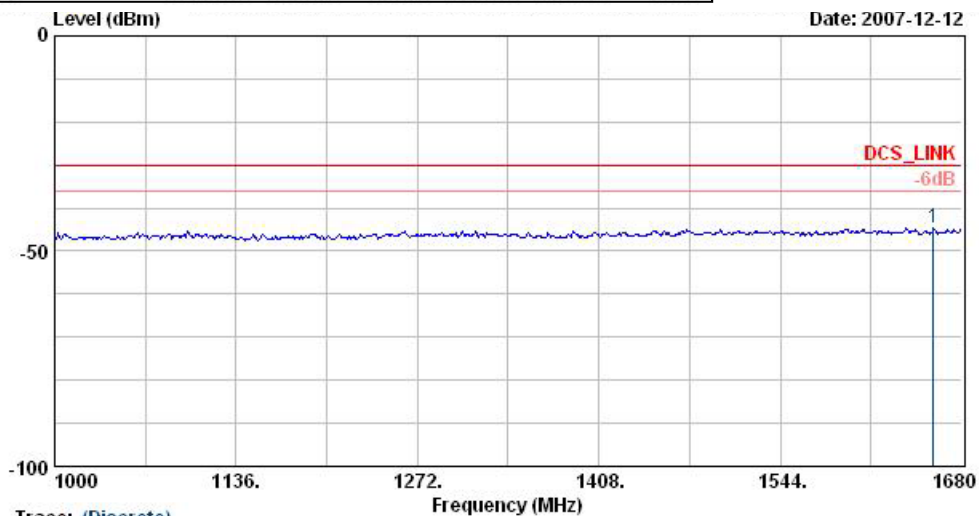
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Pol/Phase
			dB	dBm	dBm	dB	
1 @	243.05	-57.02	-21.02	-36.00	-63.80	6.78	



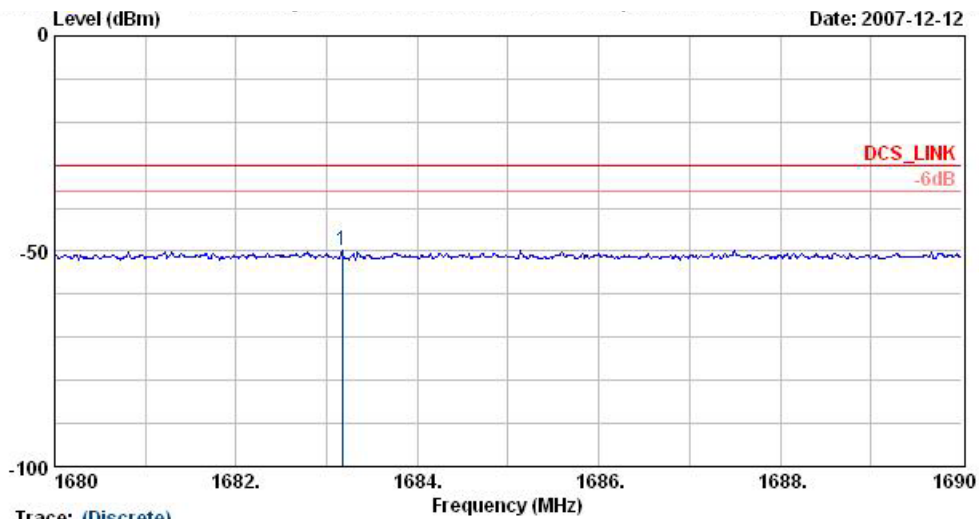
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Pol/Phase
			dB	dBm	dBm	dB	
1 @	846.00	-45.49	-9.49	-36.00	-52.54	7.05	



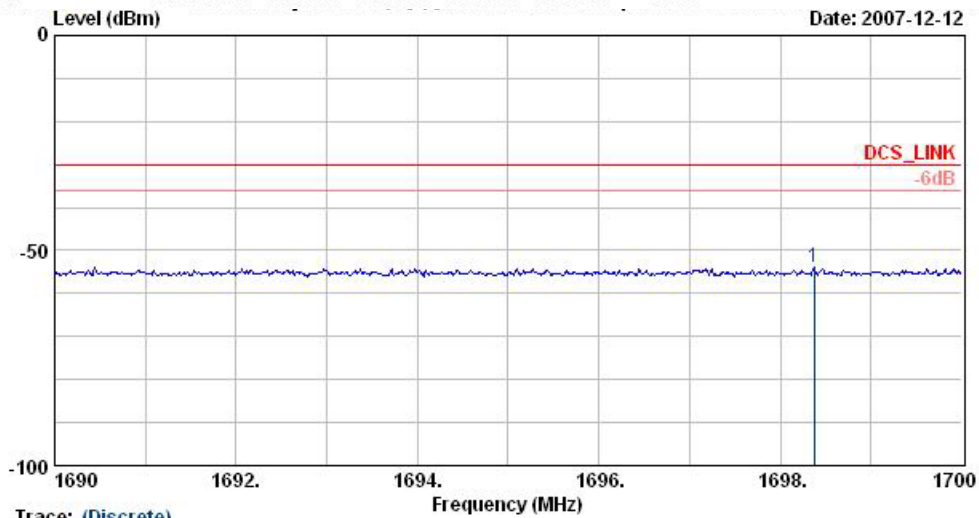
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	Limit	Line	Level	Factor	Pol/Phase
			dB	dBm	dBm	dB	
1 @	1658.92	-44.75	-14.75	-30.00	-52.24	7.49	



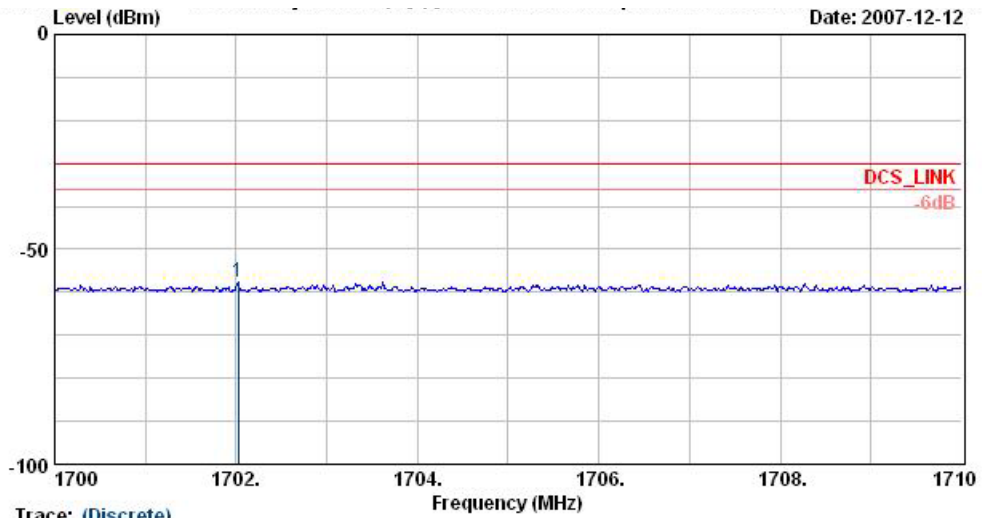
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LTNK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	Factor	Pol/Phase
1 @	1683.17	-49.69	-19.69	-30.00	-57.19	7.50	



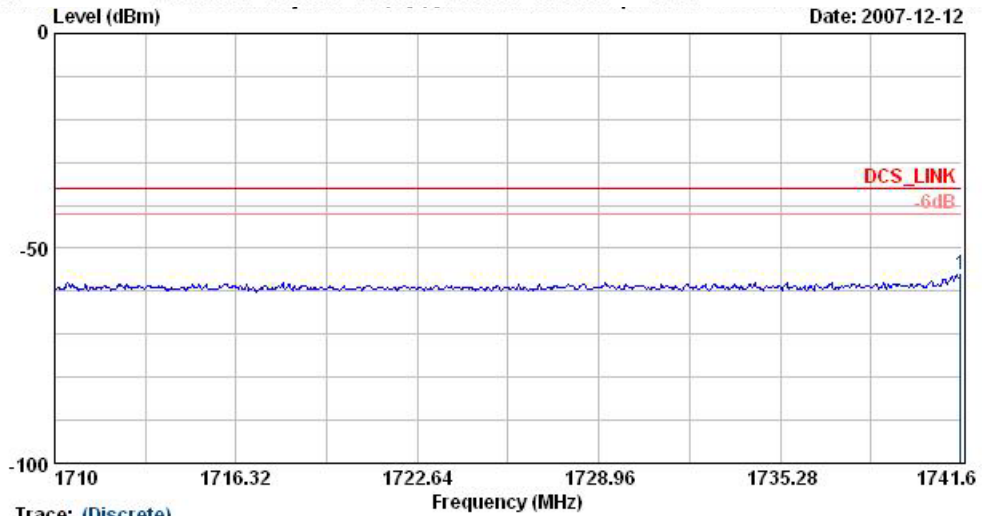
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LTNK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	Factor	Pol/Phase
1 @	1698.37	-53.96	-23.96	-30.00	-61.48	7.52	



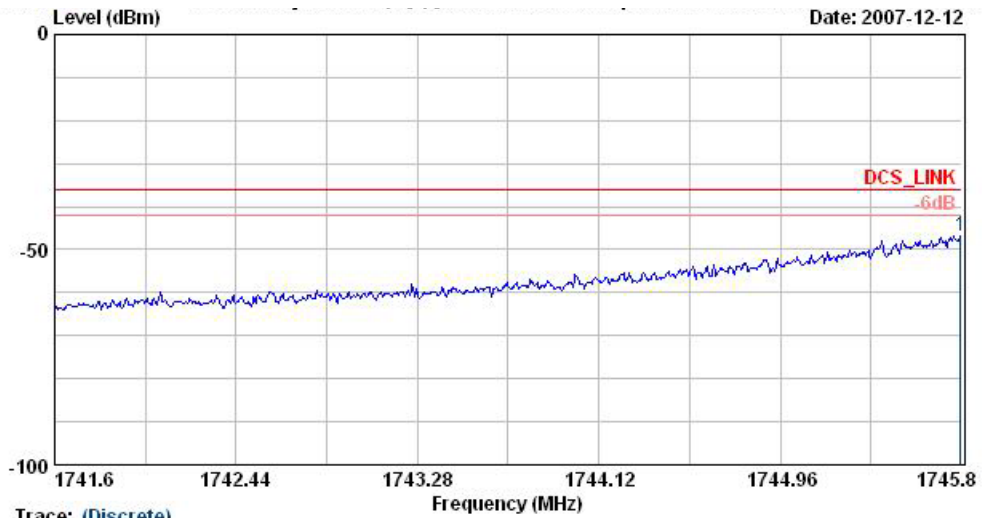
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LTNK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	1702.02	-57.48	-27.48	-30.00	-65.00	7.52	



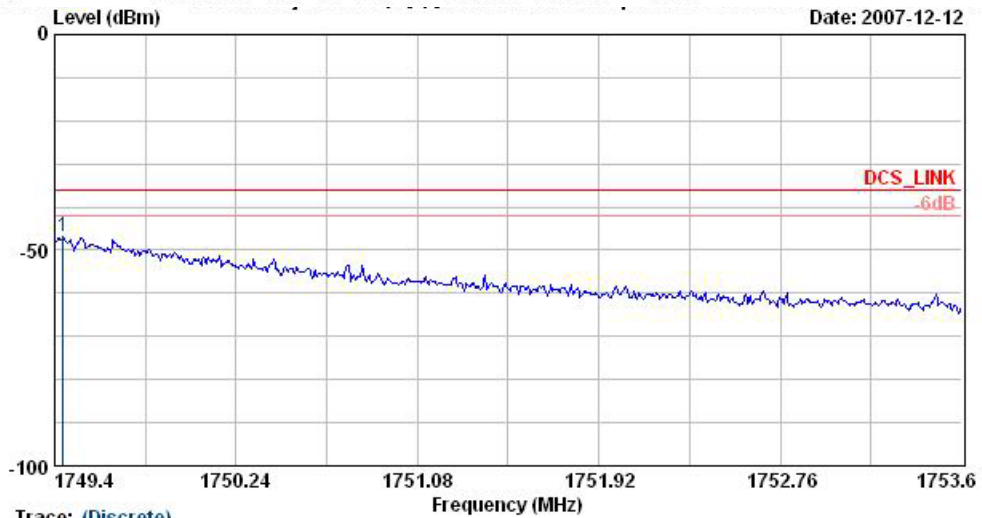
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LTNK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	1741.57	-56.21	-20.21	-36.00	-63.76	7.55	



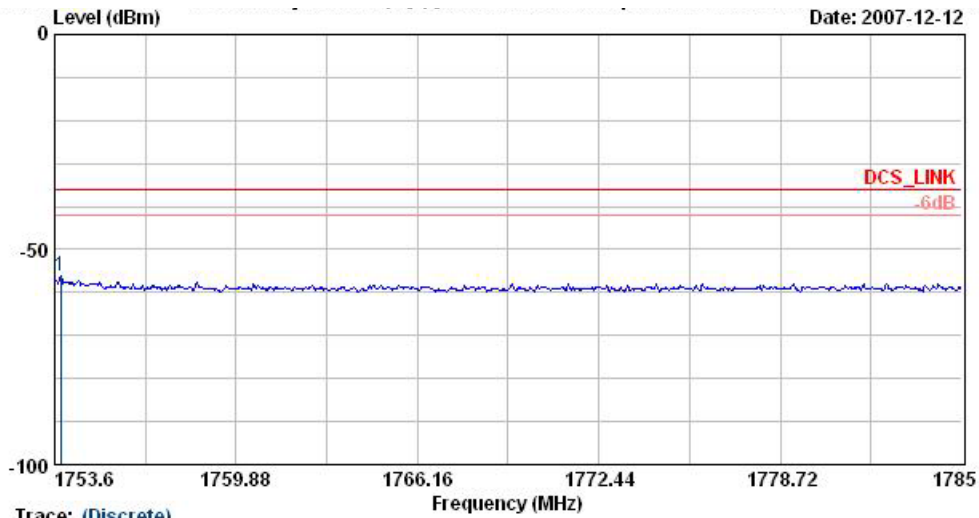
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	1745.80	-46.70	-10.70	-36.00	-54.25	7.55	



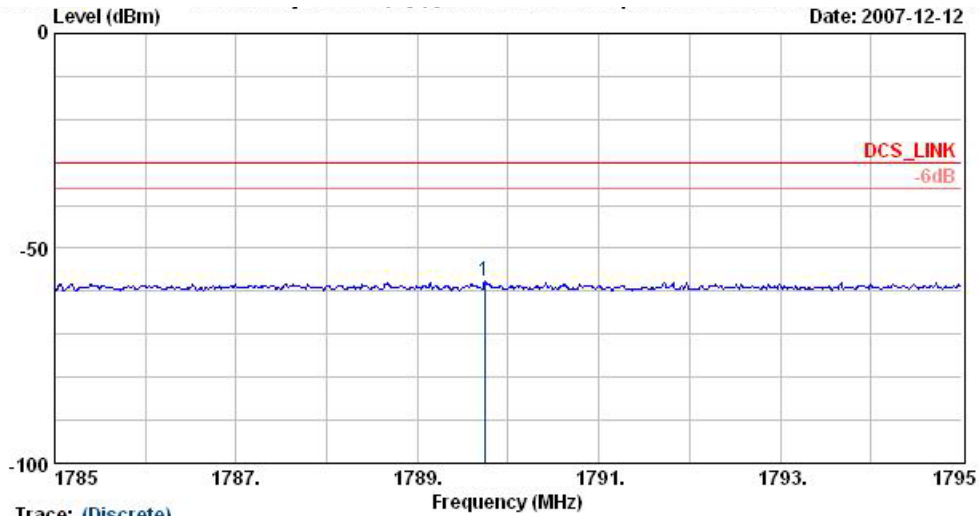
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	1749.44	-46.79	-10.79	-36.00	-54.35	7.56	



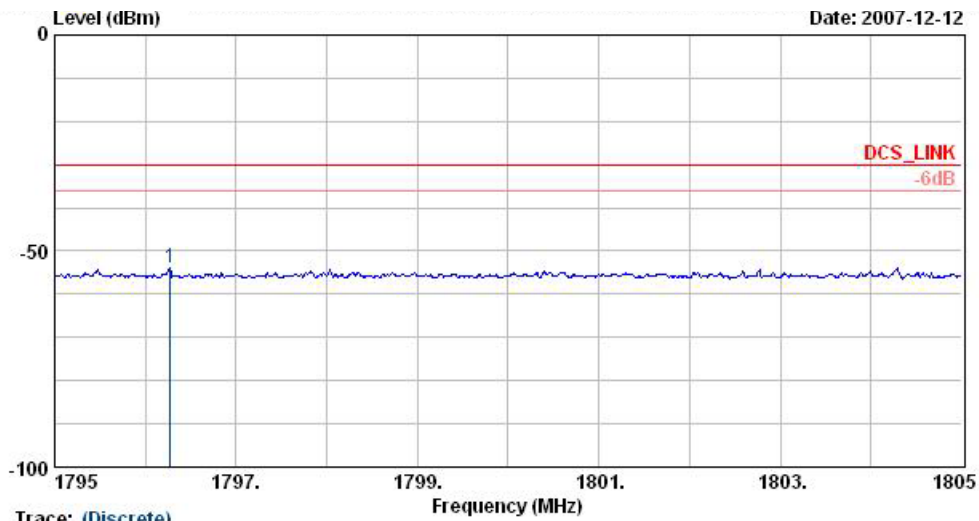
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	1753.82	-56.21	-20.21	-36.00	-63.77	7.56	



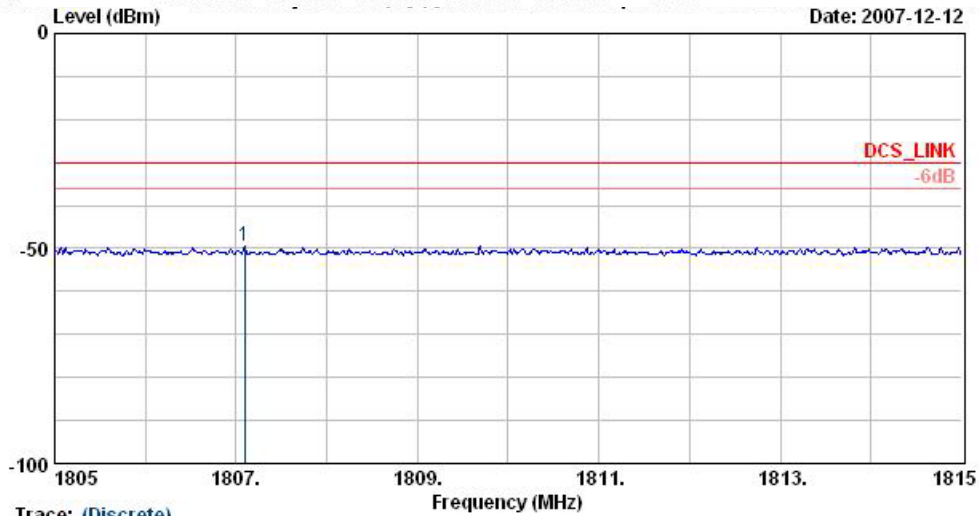
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	1789.74	-57.61	-27.61	-30.00	-65.21	7.59	



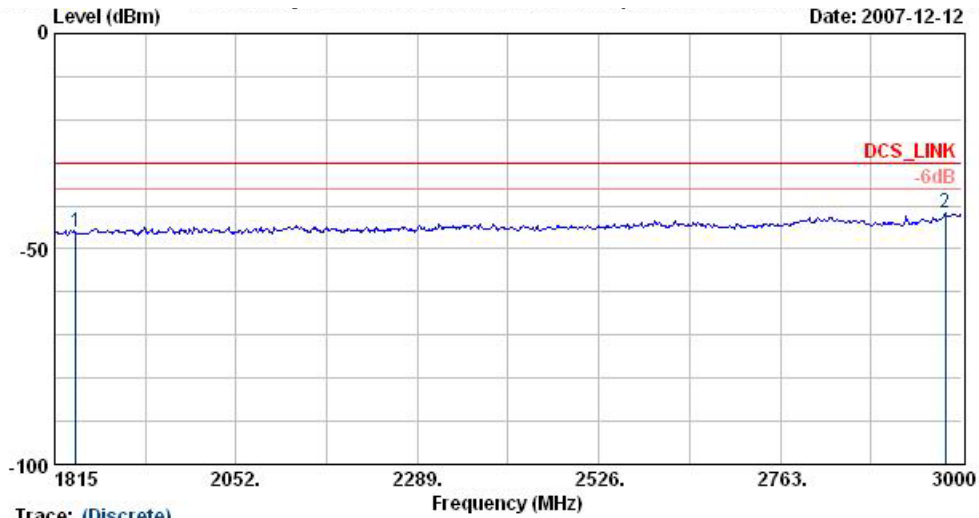
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LTNK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	1796.27	-53.87	-23.87	-30.00	-61.46	7.59	



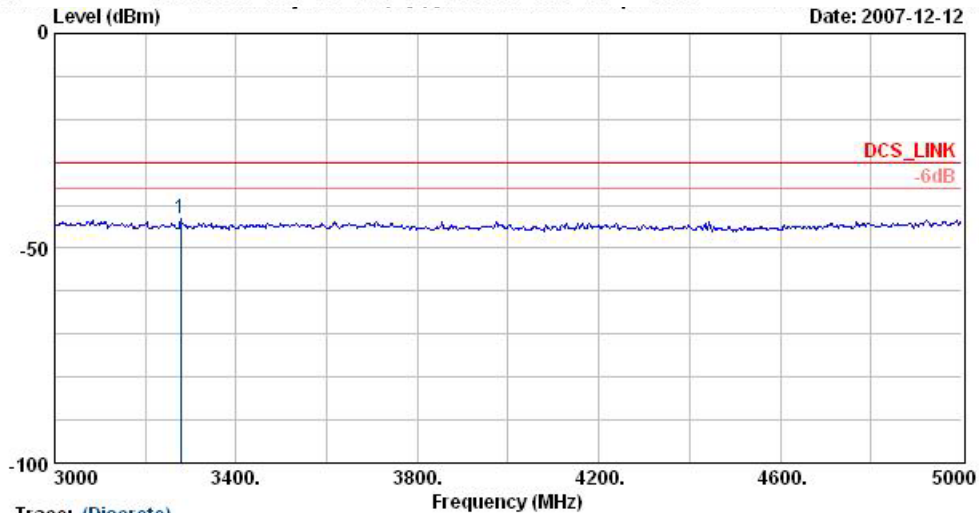
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LTNK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	1807.09	-49.45	-19.45	-30.00	-57.05	7.60	



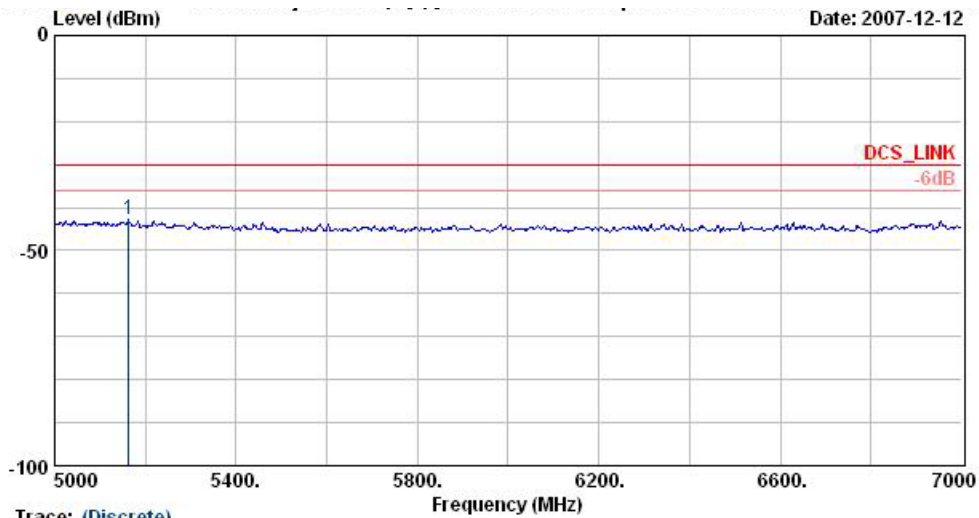
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch699

	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	Factor Pol/Phase
1 @	1842.26	-46.20	-16.20	-30.00	-53.84	7.63
2 @	2978.67	-41.73	-11.73	-30.00	-49.72	7.99



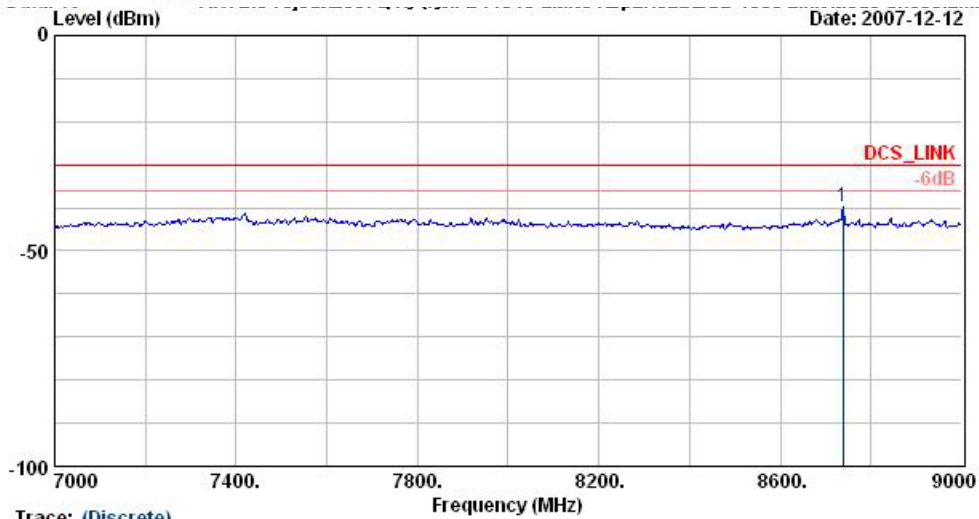
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch699

	Freq	Level	Over	Limit	Read	
	MHz	dBm	dB	dBm	dBm	Factor Pol/Phase
1 @	3278.00	-43.24	-13.24	-30.00	-51.39	8.16



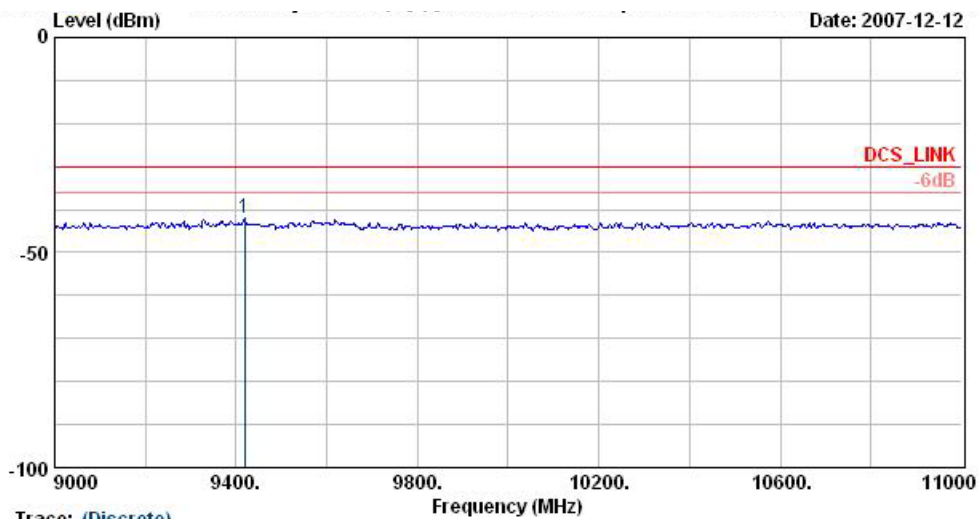
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	5164.00	-42.79	-12.79	-30.00	-52.65	9.86	



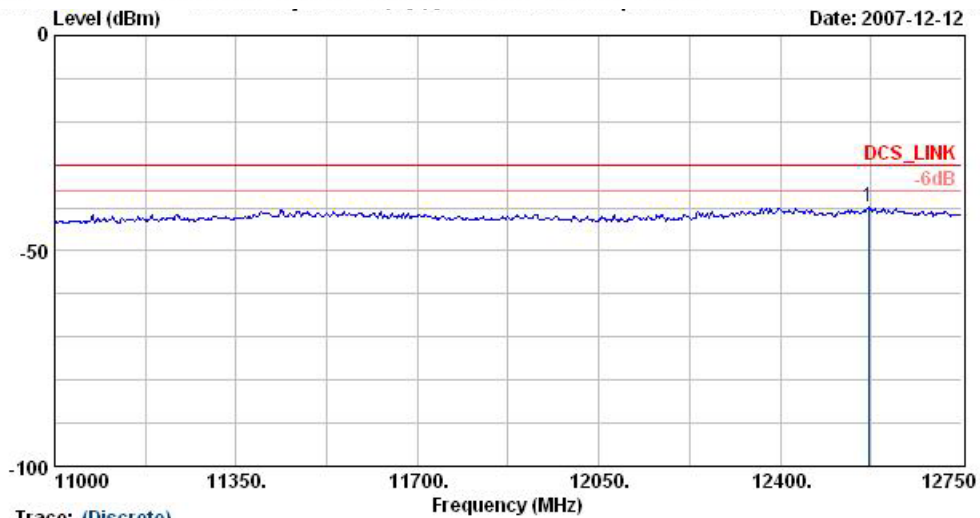
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	8738.00	-39.89	-9.89	-30.00	-49.67	9.79	



Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	9418.00	-42.15	-12.15	-30.00	-52.34	10.20	

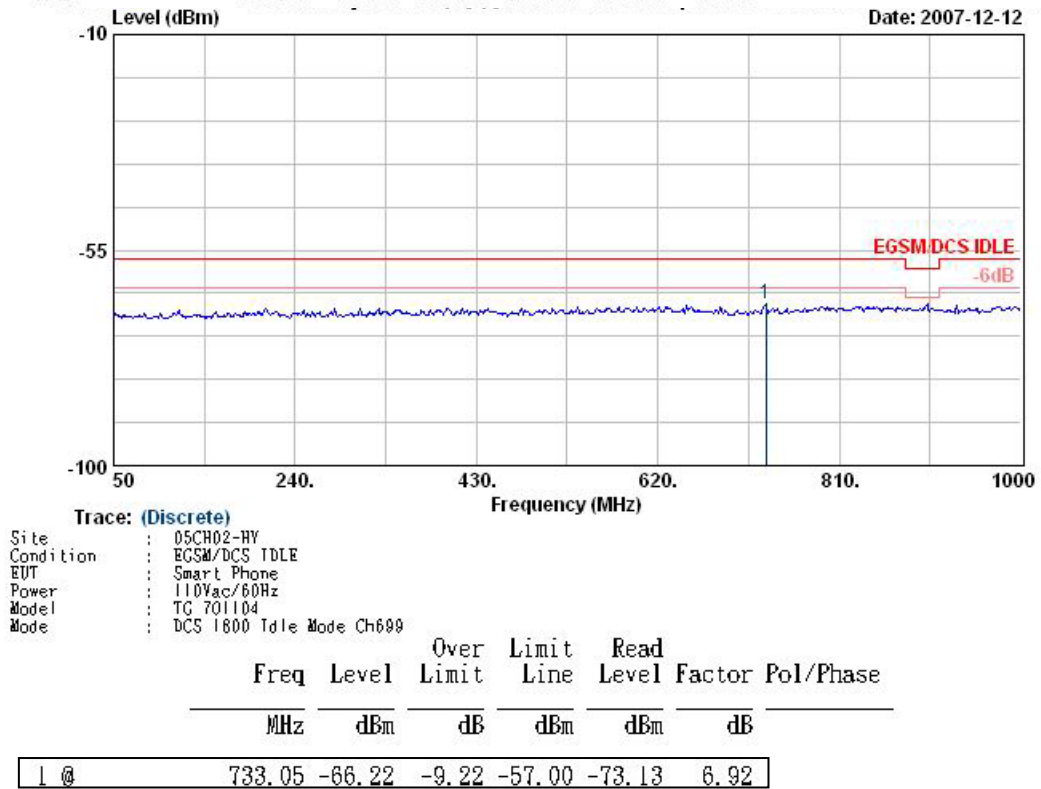
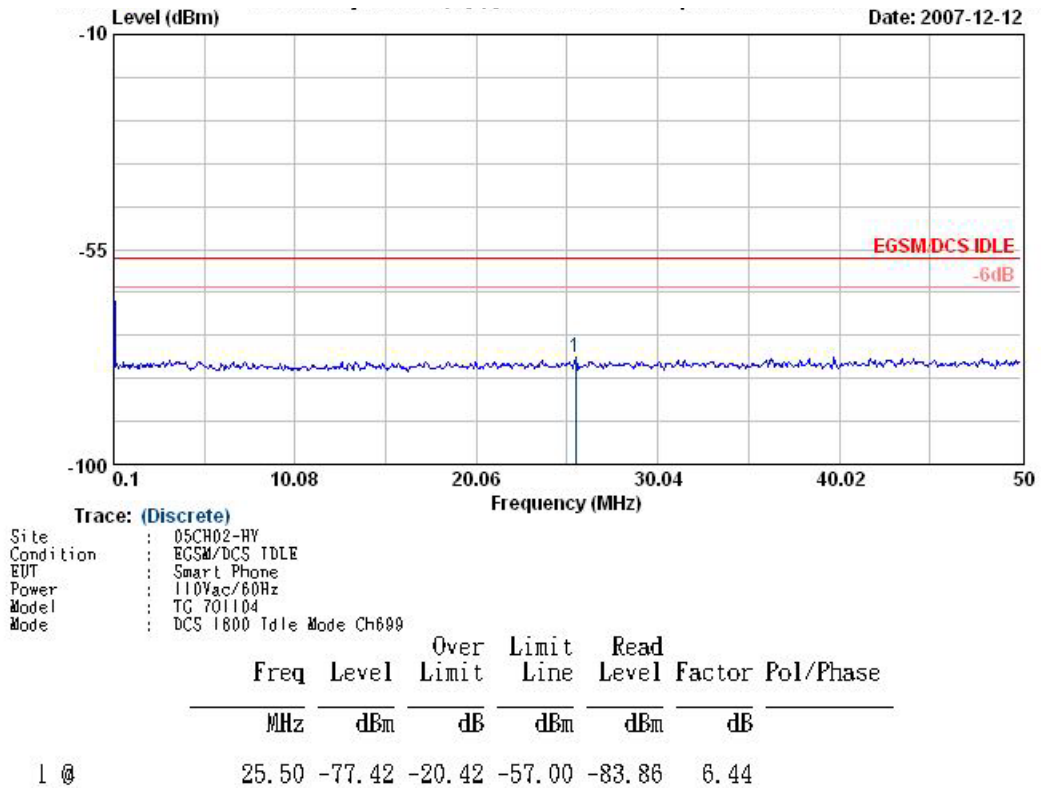


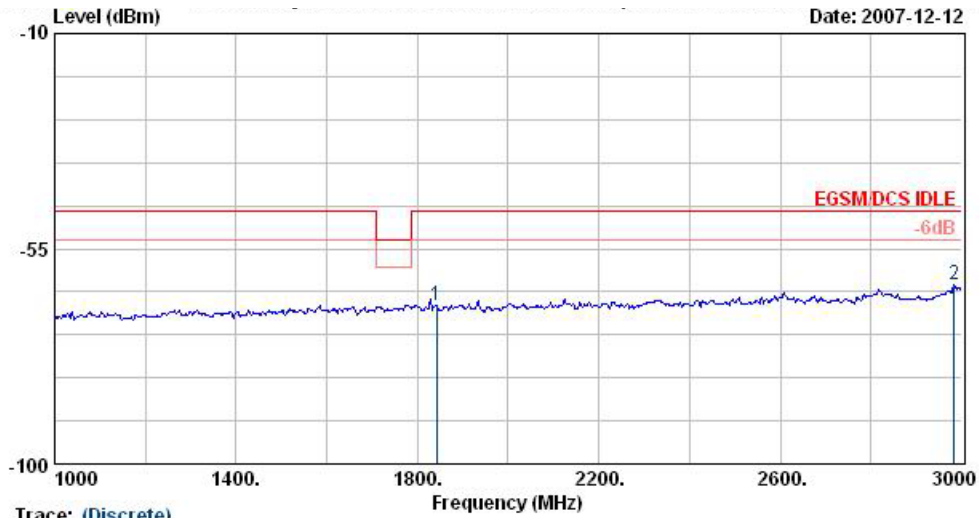
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : DCS_LINK
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Link Mode Ch600

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	12569.75	-39.85	-9.85	-30.00	-51.60	11.75	



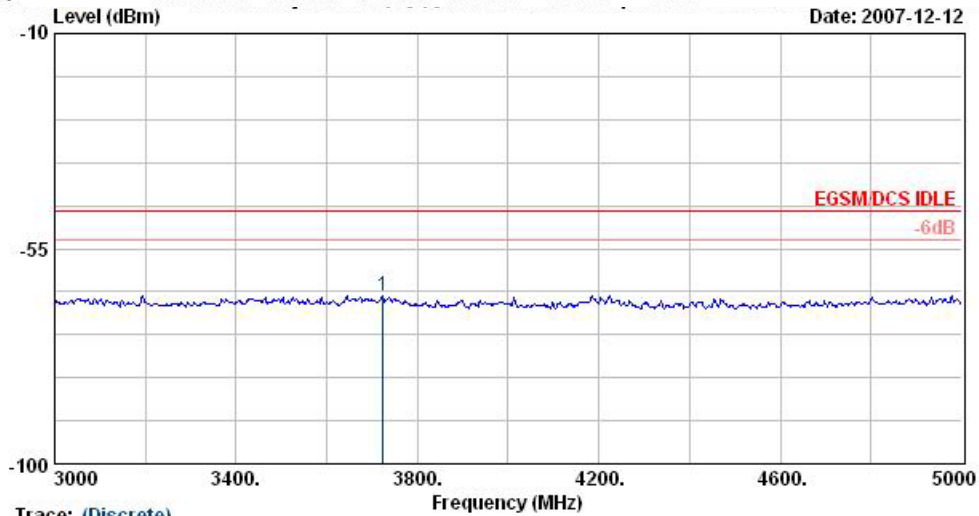
5.12 DCS1800 混附波輻射空閒狀態





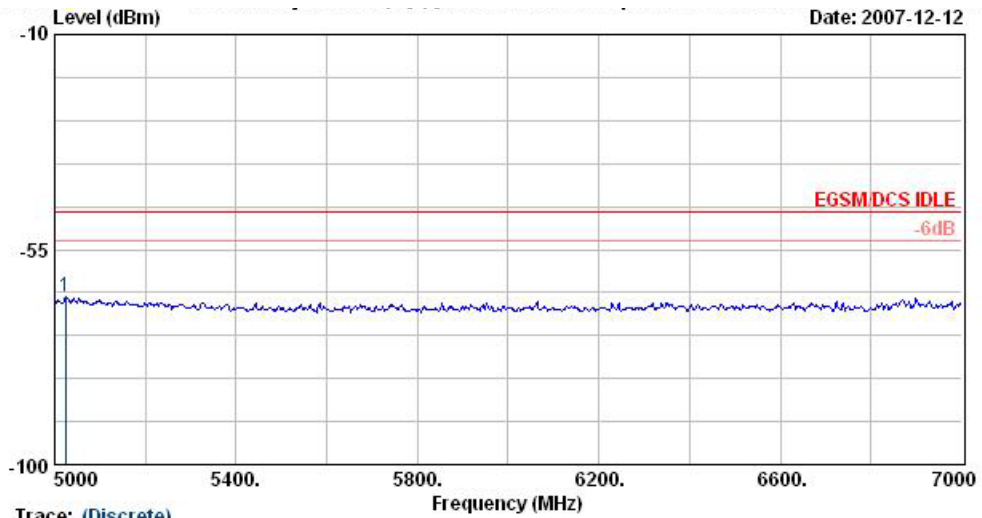
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Idle Mode Ch699

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	1842.00	-66.96	-19.96	-47.00	-74.59	7.63	
2 @	2984.00	-62.43	-15.43	-47.00	-70.42	7.99	



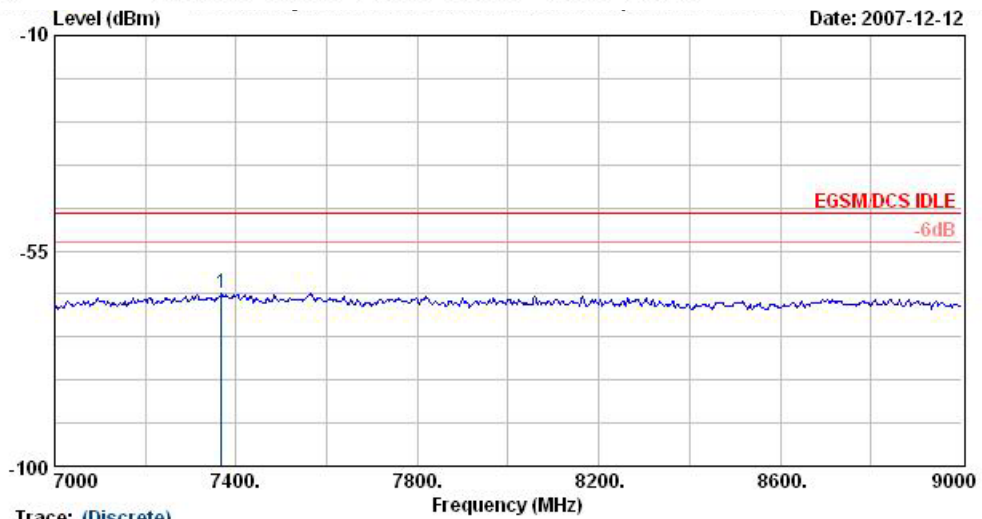
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Idle Mode Ch699

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	3724.00	-64.78	-17.78	-47.00	-73.18	8.40	



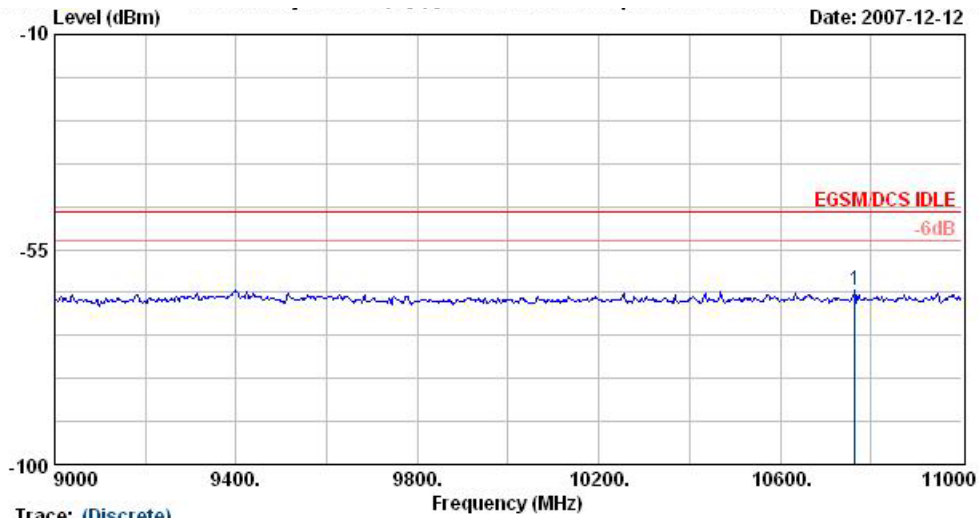
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Idle Mode Ch699

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	5024.00	-64.88	-17.88	-47.00	-75.06	10.18	



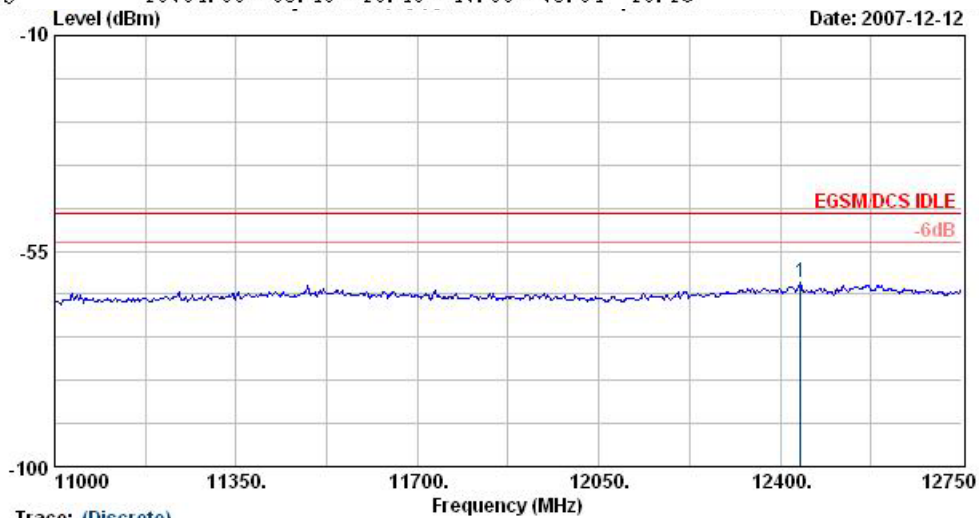
Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Idle Mode Ch699

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	dB	Pol/Phase
1 @	7368.00	-63.87	-16.87	-47.00	-73.43	9.56	



Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Idle Mode Ch699

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	Factor	Pol/Phase
1 @	10764.00	-63.46	-16.46	-47.00	-73.64	10.18	



Trace: (Discrete)
 Site : 05CH02-HY
 Condition : EGSM/DCS IDLE
 EUT : Smart Phone
 Power : 110Vac/60Hz
 Model : TG 701104
 Mode : DCS 1800 Idle Mode Ch699

	Freq	Level	Over	Limit	Read		
	MHz	dBm	dB	dBm	dBm	Factor	Pol/Phase
1 @	12438.50	-61.58	-14.58	-47.00	-73.33	11.75	

6. 量測設定及限制值

6.1 混附波輻射發射頻帶內設定值

頻帶	偏離載波頻率	測量頻寬
900MHz相關發射頻帶：890-915MHz	$\geq 1.8\text{MHz}$	30 KHz
1800 MHz相關發射頻帶：1710 - 1785 MHz	$\geq 6\text{MHz}$	100 KHz

6.2 混附波輻射發射頻帶外設定值

頻帶	偏離相關發射頻帶邊緣	測量頻寬
100KHz—50MHz	—	10 KHz
50MHz—500MHz	—	100 KHz
500MHz以上，但在表一之一相關發射頻帶外	$\geq 2\text{ MHz}$	30 KHz
	$\geq 5\text{ MHz}$	100 KHz
	$\geq 10\text{ MHz}$	300 KHz
	$\geq 20\text{ MHz}$	1 MHz
	$\geq 30\text{ MHz}$	3 MHz

6.3 混附波輻射連線狀態限制值

頻率範圍	功率位準 (dBm)	
	GSM 900	DCS 1800
100kHz 至 1GHz	-36	-36
1GHz 至 12.75GHz	-30	
1GHz 至 1710MHz		-30
1710MHz 至 1785MHz		-36
1785MHz 至 12.75GHz		-30

6.4 混附波輻射空閒狀態限制值

頻率範圍	功率位準 (dBm)
9kHz 至 880MHz	-57
880MHz 至 915MHz	-59
915MHz 至 1GHz	-57
1GHz 至 1710MHz	-47
1710MHz 至 1785MHz	-53
1785MHz 至 12.75GHz	-47

6.5 調變頻譜 (Spectrum due to the modulation) 設定及限制值

功率(dBm)		在偏移載波下列頻率(KHz)時其相對於載波功率之最大允許值(dB)								
		30KHz (測量頻寬)					100KHz (測量頻寬)			
		100	200	250	400	600~ <1200	1200~ <1800	1800~ <3000	3000~ <6000	≥6000
GSM900	≥39	+0.5	-30	-33	-60	-66	-66	-69	-71	-77
	37	+0.5	-30	-33	-60	-64	-64	-67	-69	-75
	35	+0.5	-30	-33	-60	-62	-62	-65	-67	-73
	≤33	+0.5	-30	-33	-60	-60	-60	-63	-65	-71
DCS1800	≥36	+0.5	-30	-33	-60	-60	-60	-71		-79
	34	+0.5	-30	-33	-60	-60	-60	-69		-77
	32	+0.5	-30	-33	-60	-60	-60	-67		-75
	30	+0.5	-30	-33	-60	-60	-60	-65		-73
	28	+0.5	-30	-33	-60	-60	-60	-63		-71
	26	+0.5	-30	-33	-60	-60	-60	-61		-69
≤24	+0.5	-30	-33	-60	-60	-60	-59		-67	

6.6 功率轉換瞬態所產生之頻譜 (Spectrum due to switching transients) 限制值

GSM 900

功率位準	載波頻率不同偏移之最大位準			
	400kHz	600kHz	1200kHz	1800kHz
39dBm	-13dBm	-21dBm	-21dBm	-24dBm
37dBm	-15dBm	-21dBm	-21dBm	-24dBm
35dBm	-17dBm	-21dBm	-21dBm	-24dBm
33dBm	-19dBm	-21dBm	-21dBm	-24dBm
31dBm	-21dBm	-23dBm	-23dBm	-26dBm
29dBm	-23dBm	-25dBm	-25dBm	-28dBm
27dBm	-23dBm	-26dBm	-27dBm	-30dBm
25dBm	-23dBm	-26dBm	-29dBm	-32dBm
23dBm	-23dBm	-26dBm	-31dBm	-34dBm
≤21dBm	-23dBm	-26dBm	-32dBm	-36dBm

DCS 1800

功率位準	載波頻率不同偏移之最大位準			
	400kHz	600kHz	1200kHz	1800kHz
36dBm	-16dBm	-21dBm	-21dBm	-24dBm
34dBm	-18dBm	-21dBm	-21dBm	-24dBm
32dBm	-20dBm	-22dBm	-22dBm	-25dBm
30dBm	-22dBm	-24dBm	-24dBm	-27dBm
28dBm	-23dBm	-25dBm	-26dBm	-29dBm
26dBm	-23dBm	-26dBm	-28dBm	-31dBm
24dBm	-23dBm	-26dBm	-30dBm	-33dBm
22dBm	-23dBm	-26dBm	-31dBm	-35dBm
≤20dBm	-23dBm	-26dBm	-32dBm	-36dBm

附錄 A. 產品外觀與結構照

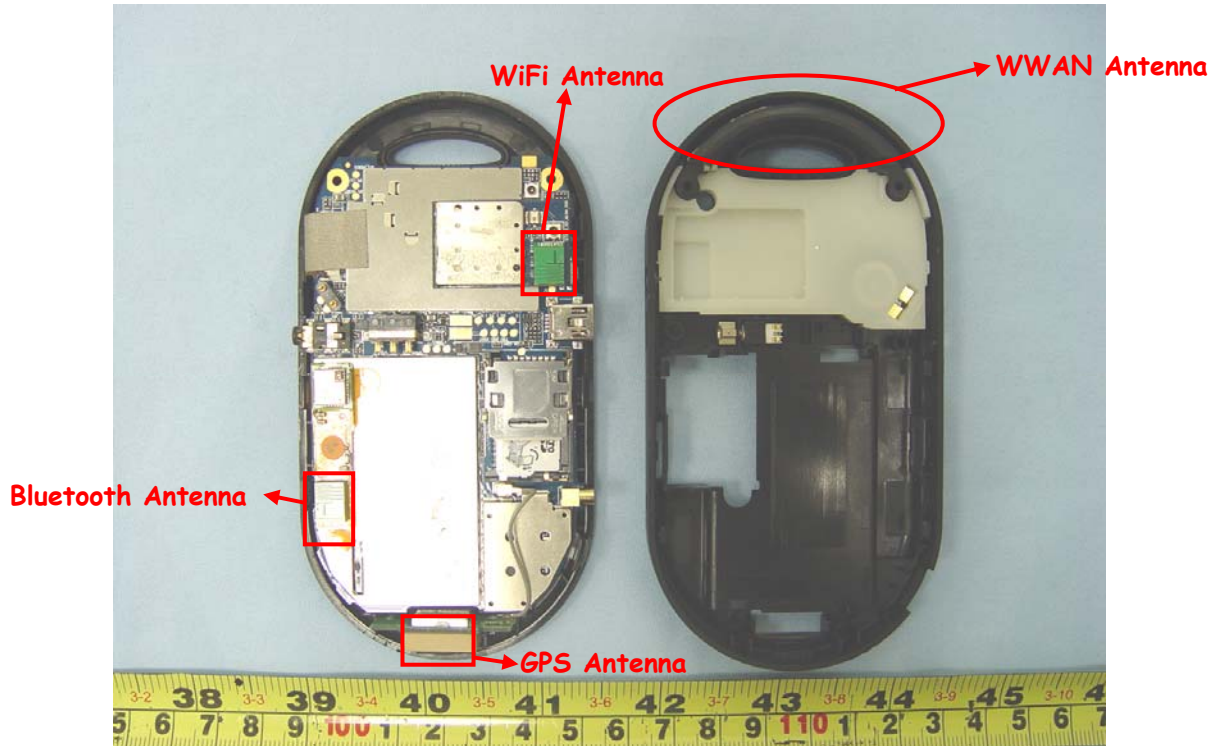






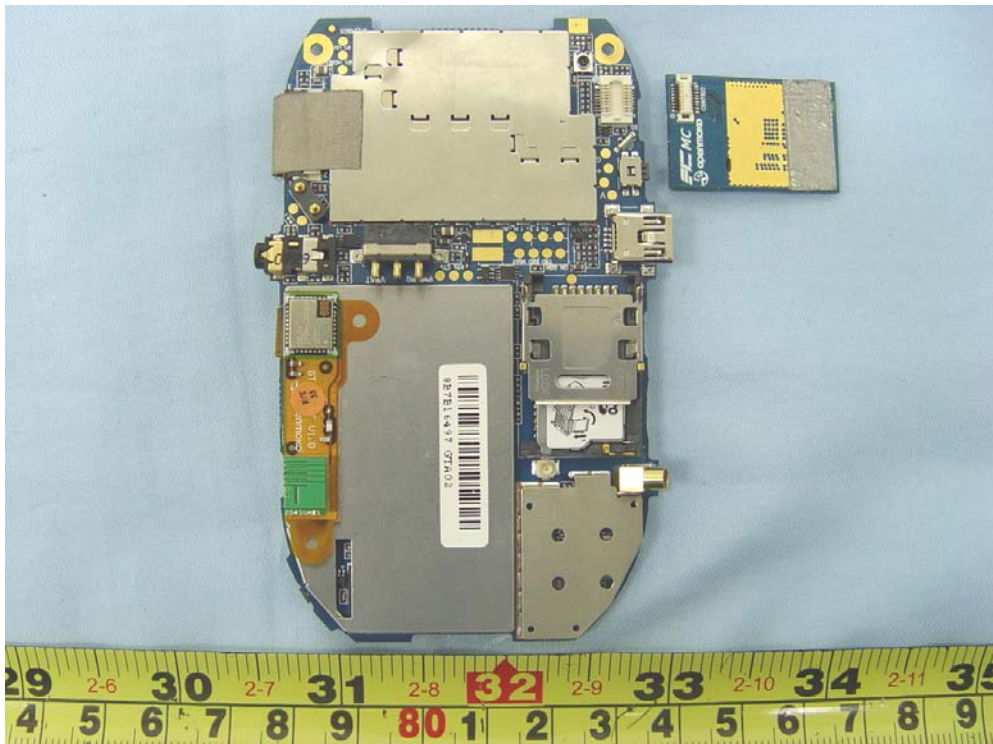


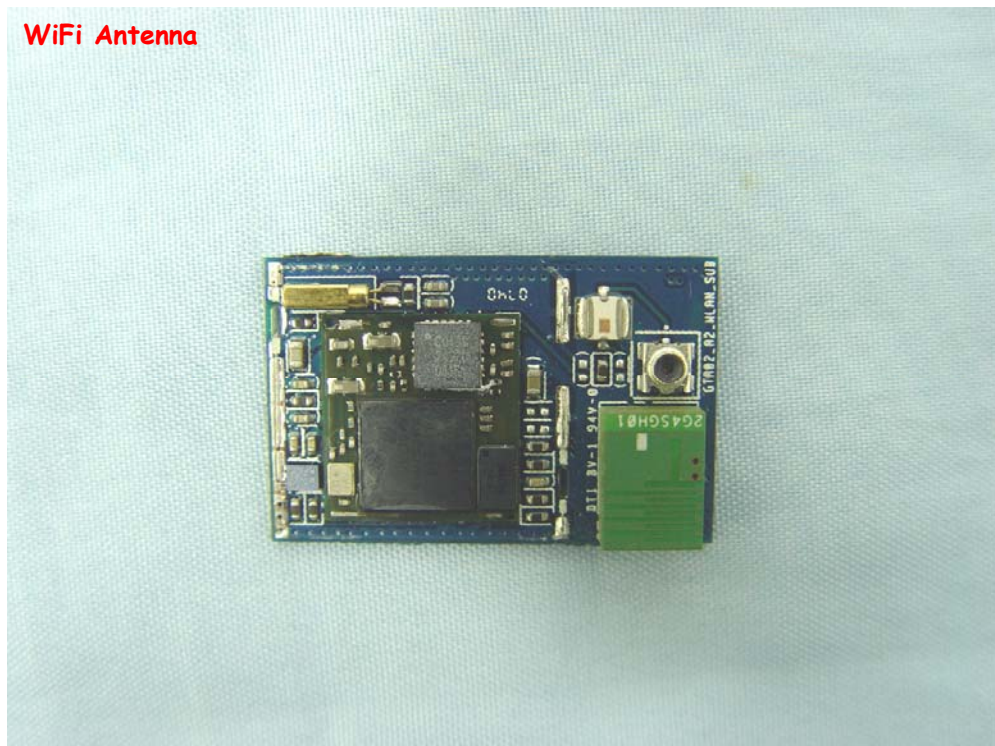
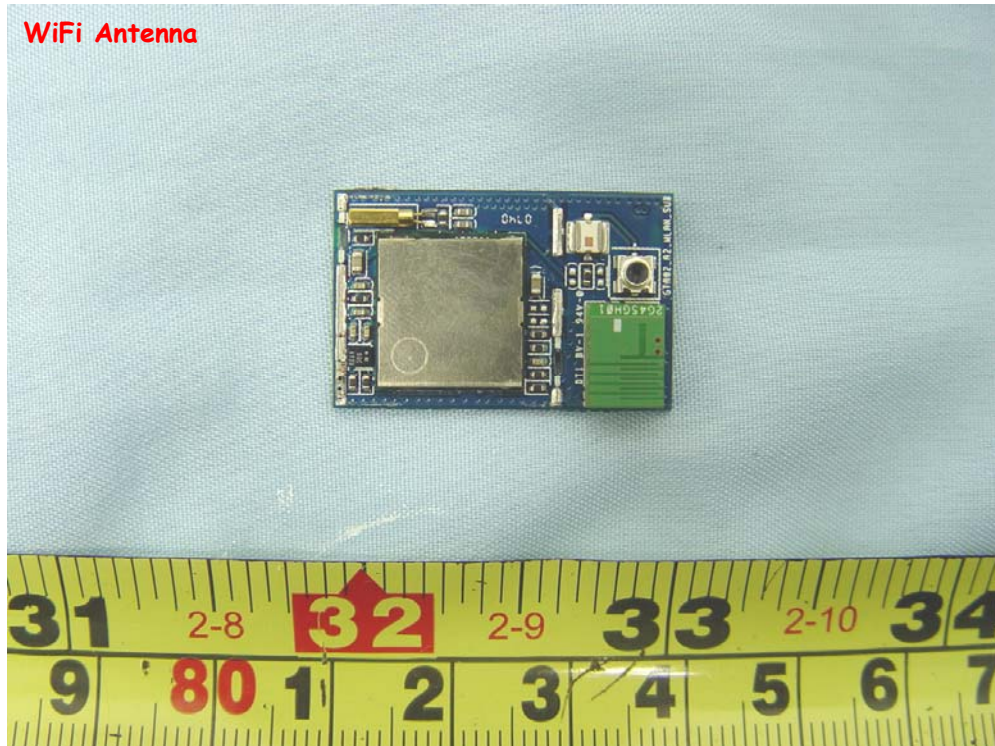












Bluetooth Antenna

