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FCC RADIO TEST REPORT

FCC ID: 2ABGW-AM2308G

Product: MID

Trade Name: ARTAB

Model Number: AM2308G

Serial Model: AM7001G

Report No.: NTEK-2014NT12022115F4

Prepared for

Hong Kong Topsky Technology Limited.

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name: Hong Kong Topsky Technology Limited.
Address: Unit 5, 27/F., Richmond Commercial Building, 109 Argyle Street,
Mongkok, Kowloon, Hong Kong
Manufacturer's Name: Hong Kong Topsky Technology Limited.
Address: Unit 5, 27/F., Richmond Commercial Building, 109 Argyle Street,
Mongkok, Kowloon, Hong Kong
Product name: MID
Model and/or type reference: AM2308G
Serial Model: AM7001G
Standards: FCC Part 22H and 24E: 01 Oct. 2014
Test procedure: ANSI C63.4-2003, TIA/EIA 603D

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests 02 Dec. 2014 ~ 11 Dec. 2014

Date of Issue 11 Dec. 2014

Test Result **Pass**

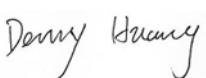
Testing Engineer	:	 Denny Huang
Technical Manager	:	 (Brown Lu)
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1. GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	MID
Hardware version:	N/A
Software version:	N/A
Frequency Bands:	<input checked="" type="checkbox"/> GSM 850 <input checked="" type="checkbox"/> PCS 1900 (U.S. Bands) <input type="checkbox"/> GSM 900 <input type="checkbox"/> DCS 1800 (Non-U.S. Bands) U.S. Bands: <input checked="" type="checkbox"/> UMTS FDD Band II <input checked="" type="checkbox"/> UMTS FDD Band V Non-U.S. Bands: <input type="checkbox"/> UMTS FDD Band I <input type="checkbox"/> UMTS FDD Band VIII
Antenna:	FPCB Antenna
Antenna gain:	1.0dBi
Power Supply:	DC 3.7V by battery or DC 5.0V supplied by adapter
Battery parameter:	DC 3.7V/2800mAh
Adapter Input:	100-240V~,50/60Hz,0.35A MAX
Adapter Output:	5.0V---, 1500mAh
GPRS Class	Multi-Class12 Only 4 timeslots are used for GPRS
Extreme Vol. Limits:	DC3.5 V to 4.2 V (Nominal DC3.7 V)
Extreme Temp. Tolerance	-10°C to +50°C
SIM CARD	The Phone has dual SIM Card sockets but only one of the dual SIM Card can be transmitting when the two SIM Cards are inserting the phone together. Any one of the SIM Card socket was tested
** Note: The High Voltage 4.2V and Low Voltage 3.5V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.	

1.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2ABGW-AM2308G** filing to comply with the FCC Part 22H&24E .

1.3 TEST METHODOLOGY

The radiated emission testing was performed according to the procedures of ANSI C 63.4: 2003; TIA/EIA 603 and FCC CFR 47 Rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

1.4 TEST FACILITY

The test site used to collect the radiated data is located at:

NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003.

FCC Registration No.:238937

IC Registration No.:9270A-1,

CNAS Registration No.:L5516

1.5 MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	NEXT CAL. DATE
SPECTRUM ANALYZER	AGILENT	E4440A	US44300399	2015.6.26
TEST RECEIVER	R&S	ESCI	A0304218	2015.6.26
COMMUNICATION TESTER	AGILENT	8960	3104A03367	2015.6.26
COMMUNICATION TESTER	R&S	CMU200	A0304247	2015.6.26
TEST RECEIVER	R&S	FCKL1528	A0304230	2015.6.26
LISN	SCHWARZBECK	NSLK8127	A0304233	2015.6.26
CLIMATE CHAMBER	ALBATROSS	--	--	2015.6.26
Loop Antenna	Daze	ZN30900N	SEL0097	2015.6.26
Biological Antenna	A.H. Systems Inc.	SAS-521-4	N/A	2015.6.26
Horn Antenna	EM	EM-AH-10180	N/A	2015.6.26

1.6 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

1.7 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2. SYSTEM TEST CONFIGURATION

2.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

2.3 GENERAL TECHNICAL REQUIREMENTS

Item Number	Item Description		FCC Rules	Judgment
1	Output Power	Radiated output power	22.913(a) /24.232 (b)	PASS
2	Spurious Emission	Radiated spurious emission	2.1051 / 22.917 / 24.238	PASS

Note : This C2PC testing , the changed is: Only change the shape of the Mainboard and layout of board,

Circuit and RF module are the same.

2.4 CONFIGURATION OF EUT SYSTEM

Fig. 2-1 Configuration of EUT System



Table 2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Note
1	MID	AM2308G	FCC ID: 2ABGW-AM2308G	EUT

*Note: All the accessories have been used during the test.
the following "EUT" in setup diagram means EUT system.*

3. SUMMARY OF TEST RESULTS

Item Number	Item Description		FCC Rules	Result
1	Output Power	Conducted Output Power	22.913(a) / 24.232 (b)	Pass
		Radiated Output Power		
2	Spurious Emission	Conducted Spurious Emission	2.1051 / 22.917 / 24.238	Pass
		Radiated Spurious Emission		
3	Frequency Stability		2.1055 / 24.235	Pass
4	Occupied Bandwidth		2.1049 (h)(i)	Pass
5	Emission Bandwidth		22.917(b) / 24.238 (b)	Pass
6	Band Edge		22.917(b) / 24.238 (b)	Pass

4. DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester (CMU 200) to ensure max power transmission and proper modulation. Three channels (The top channel, the middle channel and the bottom channel) were chosen for testing on both GPRS850 and GPRS1900 frequency band.

Note: GSM/GPRS850, GSM/GPRS1900, HSDPA band II, HSUPA band II, HSDPA band V, HSUPA band V modes have been tested during the test.

the worst condition (GSM850, GSM1900 RMC 12.2k) be recorded in the test report if no other modes test data.

5. SPURIOUS EMISSION

5.1 CONDUCTED SPURIOUS EMISSION

5.1.1 MEASUREMENT METHOD

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1, Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment of PCS1900 band, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz. For GSM850, data taken from 30 MHz to 9 GHz.

2, Determine EUT transmit frequencies: the following typical channels were chosen to conducted emissions testing.

Typical Channels for testing of GSM/GPRS	
Channel	Frequency (MHz)
128	824.2
190	836.6
251	848.8

Typical Channels for testing of PCS/ GPRS	
Channel	Frequency (MHz)
512	1850.2
661	1880.0
810	1909.8

Typical Channels for testing of UMTS band II	
Channel	Frequency (MHz)
9262	1852.4
9400	1880.0
9538	1907.6

Typical Channels for testing of UMTS band V	
Channel	Frequency (MHz)
4132	826.4
4183	836.6
4233	846.6

5.1.2 PROVISIONS APPLICABLE

On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

5.1.3 MEASUREMENT RESULT

PLEASE REFER TO : APPENDIX I TEST PLOTS FOR CONDUCTED SPURIOUS EMISSION

Note:

1. Below 30MHZ no Spurious found and The GSM modes is the worst condition.
2. As no emission found in standby or receive mode, no recording in this report.

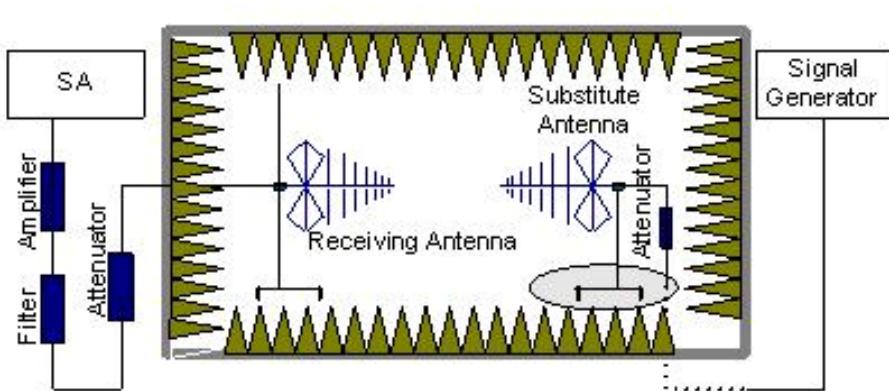
5.2 Radiated Spurious Emission

5.2.1 MEASUREMENT METHOD

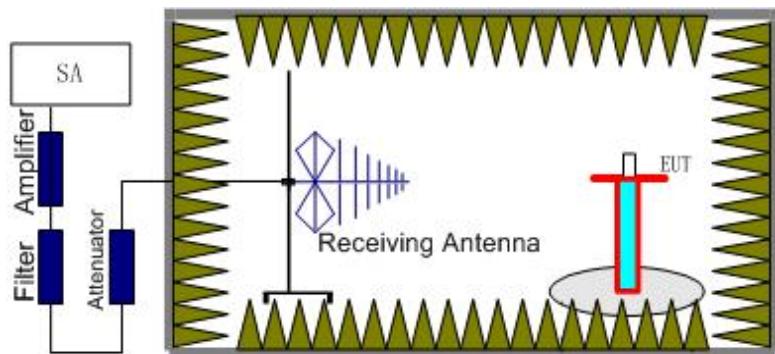
The measurements procedures specified in TIA-603C-2004 were used for testing. The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set 1MHz as outlined in Part 24.238. The measurements were performed on all modes(GPRS850, GPRS1900, HSDPA band V) at 3 typical channels(the Top Channel, the Middle Channel and the Bottom Channel) for each band.Only shown the worst data.

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = Rx \text{ (dBuV)} + CL \text{ (dB)} + SA \text{ (dB)} + Gain \text{ (dBi)} - 107 \text{ (dBuV to dBm)}$ The SA is calibrated using following setup.



b) EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector and 1MHz bandwidth.



Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the PCS 1900 band (1850.2 MHz, 1880 MHz and 1909.8 MHz), GSM850 band (824.2MHz, 836.6MHz, 848.8MHz), UMTS band II(1852.4MHz, 1880MHz, 1907.6MHz), UMTS band V(826.4MHz, 835.0MHz, 846.6MHz) . It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the A_{RPL} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below: $\text{Power} = P_{\text{Mea}} + A_{RPL}$

5.2.2 PROVISIONS APPLICABLE

(a) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43 + 10 \log(P)$ dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Note: only result the worst condition of each test mode:

5.2.3 MEASUREMENT RESULT

GSM 850:

The Worst Test Results for Channel 251/848.8 MHz					
Frequency(MHz)	Reading (dBm)	Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Polarity
1697.6	-27.76	8.1	-19.66	-13.00	Vertical
1697.6	-29.69	8.1	-21.59	-13.00	Horizontal
2546.4	-30.54	11.69	-18.85	-13.00	Vertical
2546.4	-27.98	11.69	-16.29	-13.00	Horizontal
3395.2	-29.53	12.92	-16.61	-13.00	Horizontal
3395.2	-31.79	12.92	-18.87	-13.00	Vertical

The Worst Test Results for Channel 190/836.6 MHz					
Frequency(MHz)	Reading (dBm)	Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Polarity
1673.2	-26.75	8	-18.75	-13.00	Vertical
1673.2	-35.24	8	-27.24	-13.00	Horizontal
2509.8	-27.26	11.2	-16.06	-13.00	Vertical
2509.8	-28.46	11.2	-17.26	-13.00	Horizontal
3346.4	-30.53	12.6	-17.93	-13.00	Horizontal
3346.4	-31.93	12.6	-19.33	-13.00	Vertical

The Worst Test Results for Channel 128/824.2 MHz					
Frequency(MHz)	Reading (dBm)	Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Polarity
1648.4	-22.59	7.8	-14.79	-13.00	Vertical
1648.4	-33.12	7.8	-25.32	-13.00	Horizontal
2472.6	-26.62	11	-15.62	-13.00	Vertical
2472.6	-32.83	11	-21.83	-13.00	Horizontal
3296.8	-31.56	12.3	-19.26	-13.00	Horizontal
3296.8	-34.93	12.3	-22.63	-13.00	Vertical

PCS 1900:

The Worst Test Results for Channel 512/1850.2MHz					
Frequency(MHz)	Reading (dBm)	Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Polarity
3700.4	-30.89	13.42	-17.47	-13.00	Horizontal
3700.4	-36.82	13.42	-23.4	-13.00	Vertical
5550.6	-32.67	17.12	-15.55	-13.00	Vertical
5550.6	-33.76	17.12	-16.64	-13.00	Horizontal
7400.8	-34.65	19.26	-15.39	-13.00	Horizontal
7400.8	-34.01	19.26	-14.75	-13.00	Vertical

The Worst Test Results for Channel 661/1880.0MHz					
Frequency(MHz)	Reading (dBm)	Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Polarity
3760	-32.23	13.76	-18.47	-13.00	Horizontal
3760	-35.42	13.76	-21.66	-13.00	Vertical
5640	-32.21	17.56	-14.65	-13.00	Vertical
5640	-42.24	17.56	-24.68	-13.00	Horizontal
7520	-41.97	19.6	-22.37	-13.00	Horizontal
7520	-42.52	19.6	-22.92	-13.00	Vertical

The Worst Test Results for Channel 810/1909.8MHz					
Frequency(MHz)	Reading (dBm)	Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Polarity
3819.6	-30.92	13.87	-17.05	-13.00	Horizontal
3819.6	-31.89	13.87	-18.02	-13.00	Vertical
5729.4	-38.27	17.66	-20.61	-13.00	Vertical
5729.4	-36.44	17.66	-18.78	-13.00	Horizontal
7639.2	-37.57	19.75	-17.82	-13.00	Horizontal
7639.2	-35.21	19.75	-15.46	-13.00	Vertical

UMTS band II:

The Worst Test Results for Channel 9538/1909.6MHz					
Frequency(MHz)	Reading (dBm)	Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Polarity
3819.2	-30.39	13.87	-16.52	-13.00	Horizontal
3819.2	-32.28	13.87	-18.41	-13.00	Vertical
5728.8	-33.39	17.66	-15.73	-13.00	Vertical
5728.8	-38.39	17.66	-20.73	-13.00	Horizontal

The Worst Test Results for Channel 9400/1880.0MHz					
Frequency(MHz)	Reading (dBm)	Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Polarity
3760.00	-30.27	13.76	-16.51	-13.00	Horizontal
3760.00	-33.89	13.76	-20.13	-13.00	Vertical
5640.00	-34.41	17.56	-16.85	-13.00	Vertical
5640.00	-39.57	17.56	-22.01	-13.00	Horizontal

The Worst Test Results for Channel 9262/1850.4MHz					
Frequency(MHz)	Reading (dBm)	Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Polarity
3700.8	-32.39	13.42	-18.97	-13.00	Horizontal
3700.8	-33.55	13.42	-20.13	-13.00	Vertical
5551.2	-33.39	17.12	-16.27	-13.00	Vertical
5551.2	-37.08	17.12	-19.96	-13.00	Horizontal

UMTS band V:

The Worst Test Results for Channel 4233/846.6MHz					
Frequency(MHz)	Reading (dBm)	Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Polarity
1673.2	-23.67	8.1	-15.57	-13.00	Vertical
1673.2	-28.22	8.1	-20.12	-13.00	Horizontal
2509.8	-28.65	11.69	-16.96	-13.00	Horizontal
2509.8	-36.29	11.69	-24.6	-13.00	Vertical
3346.4	-35.23	12.92	-22.31	-13.00	Horizontal
3346.4	-41.25	12.92	-28.33	-13.00	Vertical

The Worst Test Results for Channel 4182/836.4MHz					
Frequency(MHz)	Reading (dBm)	Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Polarity
1672.8	-32.46	8	-24.46	-13.00	Vertical
1672.8	-23.16	8	-15.16	-13.00	Horizontal
2509.2	-29.46	11.2	-18.26	-13.00	Horizontal
2509.2	-29.76	11.2	-18.56	-13.00	Vertical
3345.6	-35.16	12.6	-22.56	-13.00	Horizontal
3345.6	-32.11	12.6	-19.51	-13.00	Vertical

The Worst Test Results for Channel 4132/826.4MHz					
Frequency(MHz)	Reading (dBm)	Factor(dB)	Absolute Level(dBm)	Limit (dBm)	Polarity
1652.8	-26.39	8	-18.39	-13.00	Vertical
1652.8	-34.62	8	-26.62	-13.00	Horizontal
2479.2	-26.26	11.2	-15.06	-13.00	Horizontal
2479.2	-28.25	11.2	-17.05	-13.00	Vertical
3305.6	-31.57	12.6	-18.97	-13.00	Horizontal
3305.6	-38.14	12.6	-25.54	-13.00	Vertical

Note: Below 30MHZ no Spurious found and The GSM/PCS modes is the worst condition.

6. Peak-to-Average Ratio

DESCRIPTION OF THE PAR MEASUREMENT

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

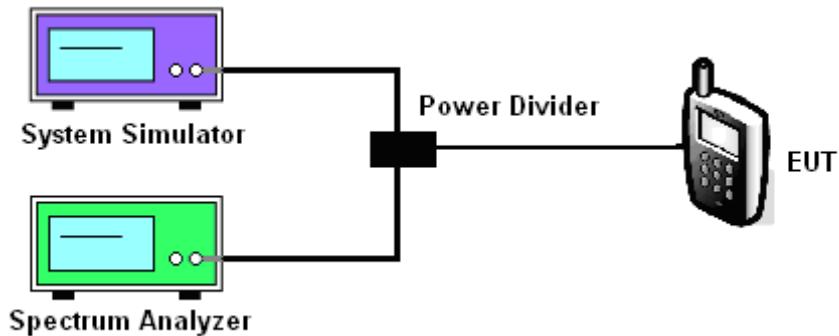
6.1 MEASURING INSTRUMENTS

See list of measuring instruments of this test report.

6.2 TEST PROCEDURES

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. For GSM/EGPRS operating modes:
 - a. Set the RBW = 1MHz, VBW = 1MHz, Peak detector in spectrum analyzer.
 - b. Set EUT in maximum power output, and triggered the burst signal.
 - c. Measured respectively the Peak level and Mean level, and the deviation was recorded as Peak to Average Ratio.
4. For UMTS operating modes:
 - a. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
 - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.

6.3 TEST SETUP



6.4 TEST RESULT OF PEAK-TO-AVERAGE RATIO

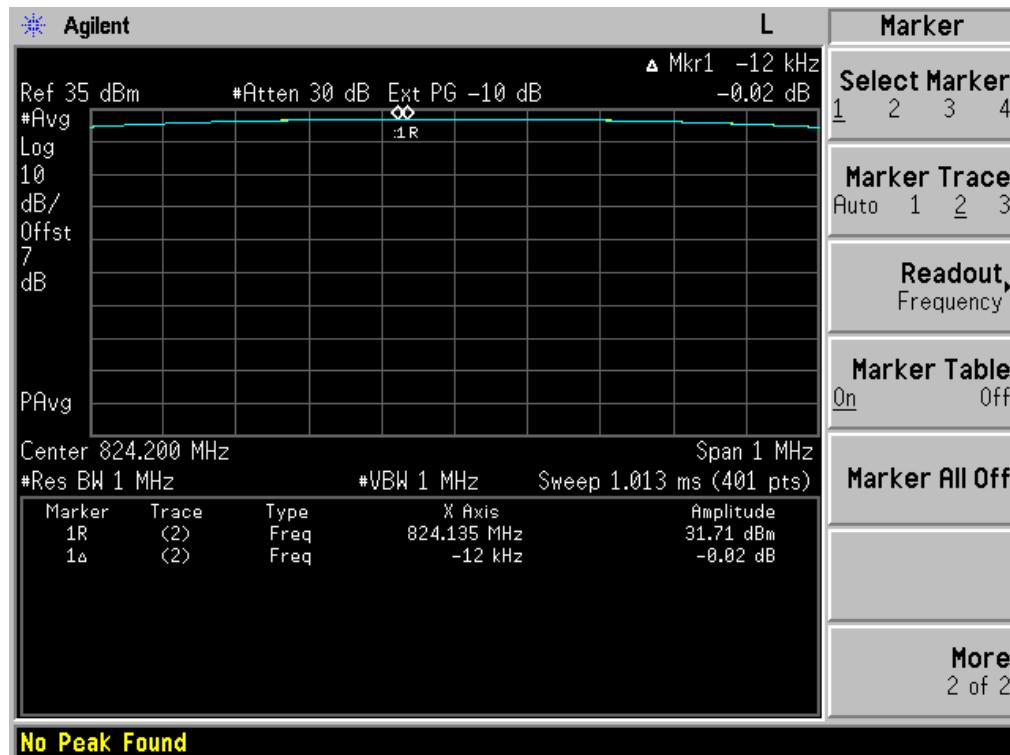
Cellular Band						
Modes	GSM850(GSM)			GSM1900(GSM)		
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	0.02	0.03	0.03	0.01	0.89	0.72

Cellular Band						
Modes	WCDMA Band II (RMC 12.2Kbps)			WCDMA Band V (RMC 12.2Kbps)		
Channel	9262 (Low)	9400 (Mid)	9538 (High)	4132 (Low)	4175 (Mid)	4233 (High)
Frequency(MHz)	1852.4	1880	1907.6	826.4	836.6	846.6
Peak-to-Average Ratio (dB)	0.38	0.41	0.43	0.56	0.51	0.41

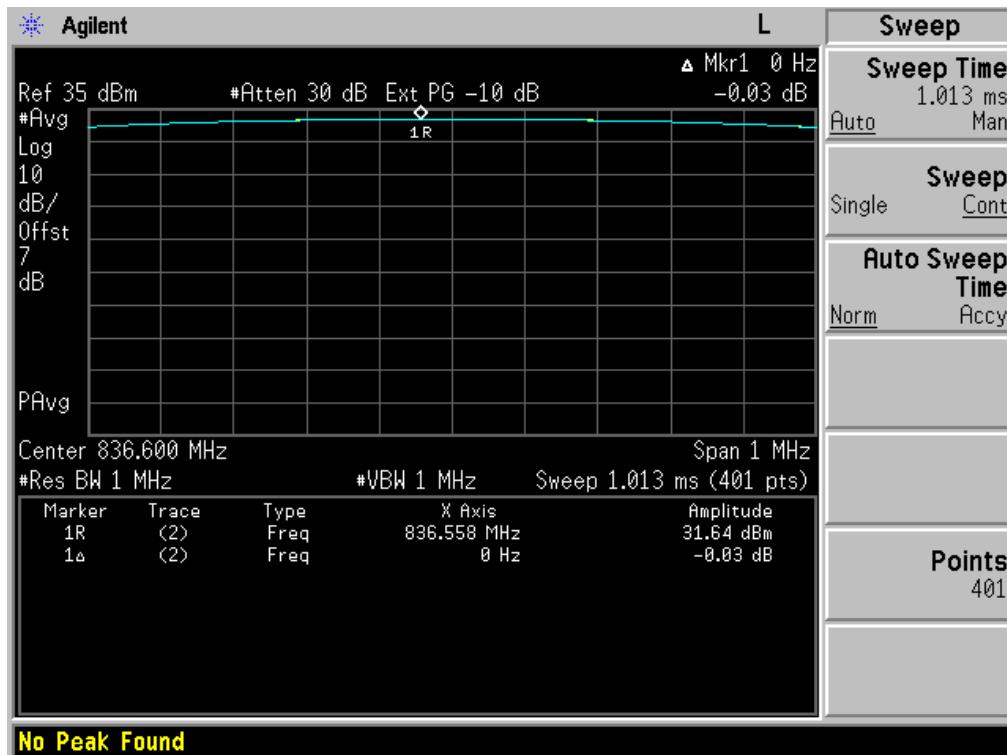
Test Result (Plots) of Peak-to-Average Ratio

Band :	GSM 850	Test Mode :	GSM Link
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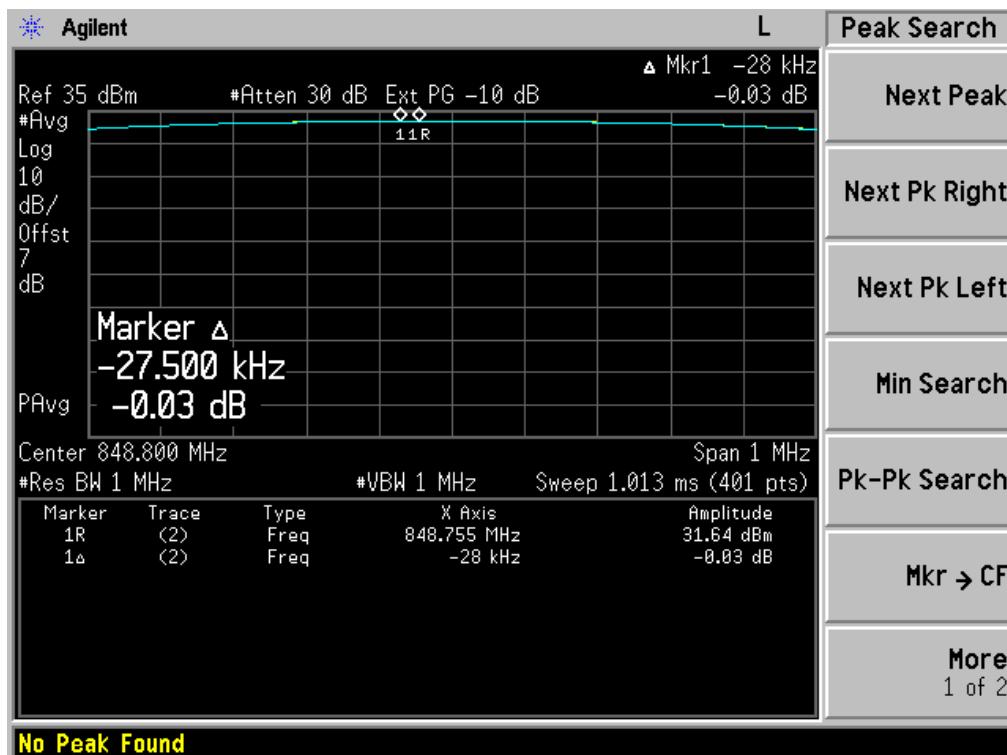
Peak-to-Average Ratio on Channel 128



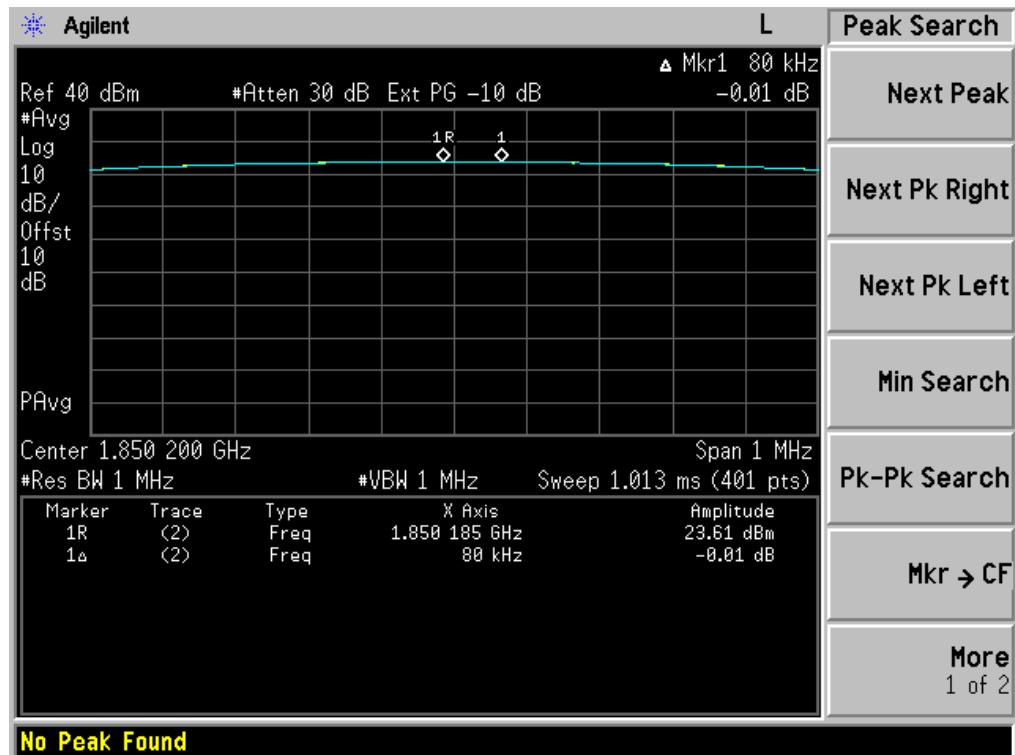
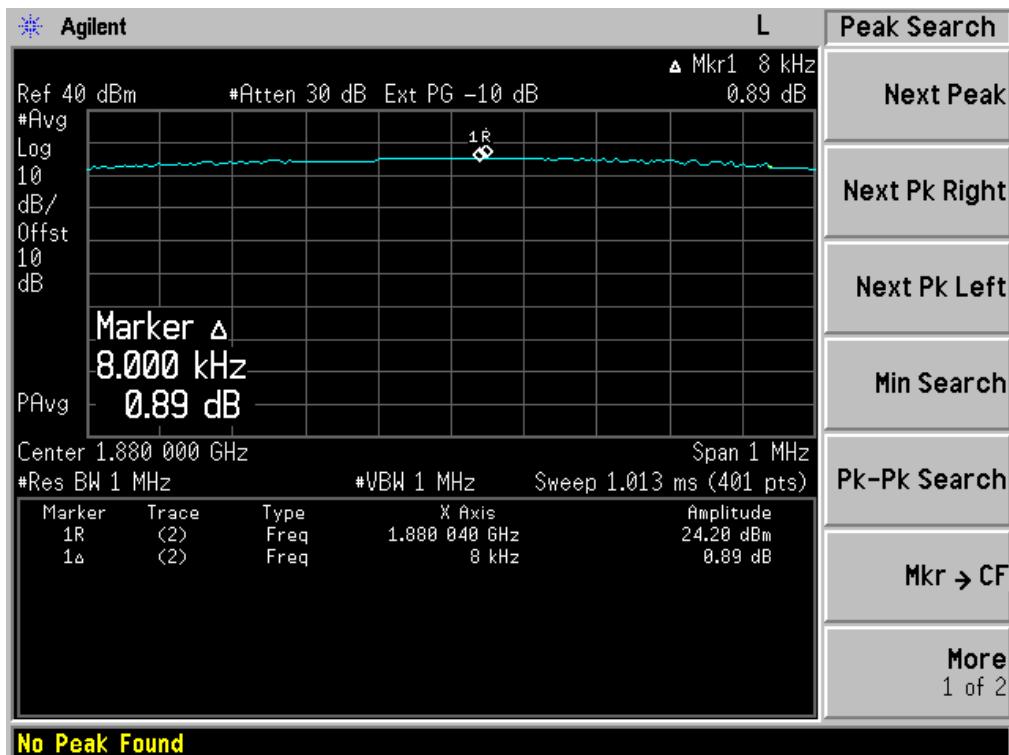
Peak-to-Average Ratio on Channel 190



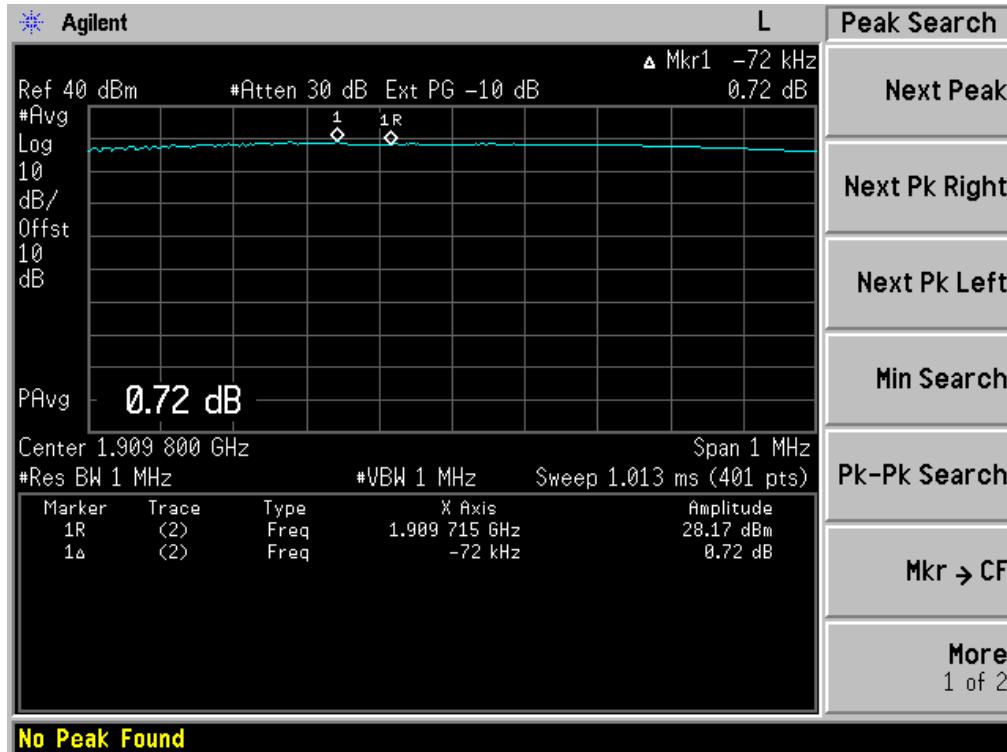
Peak-to-Average Ratio on Channel 251



Band :	GSM 1900	Test Mode :	GSM Link
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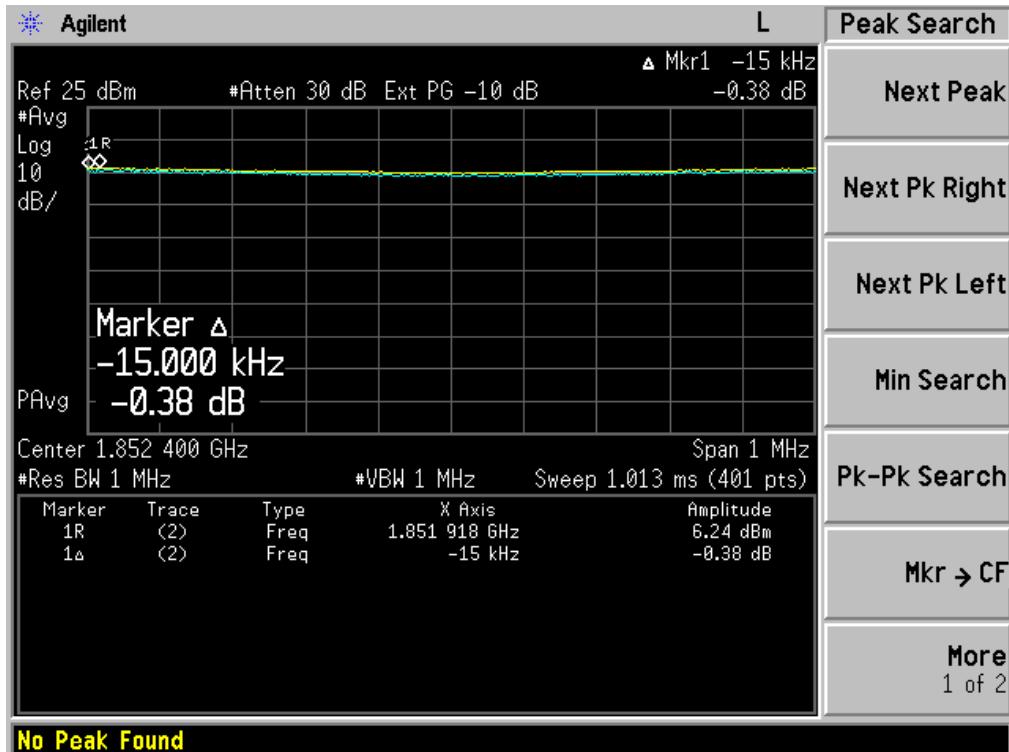
Peak-to-Average Ratio on Channel 512**Peak-to-Average Ratio on Channel 661**

Peak-to-Average Ratio on Channel 810

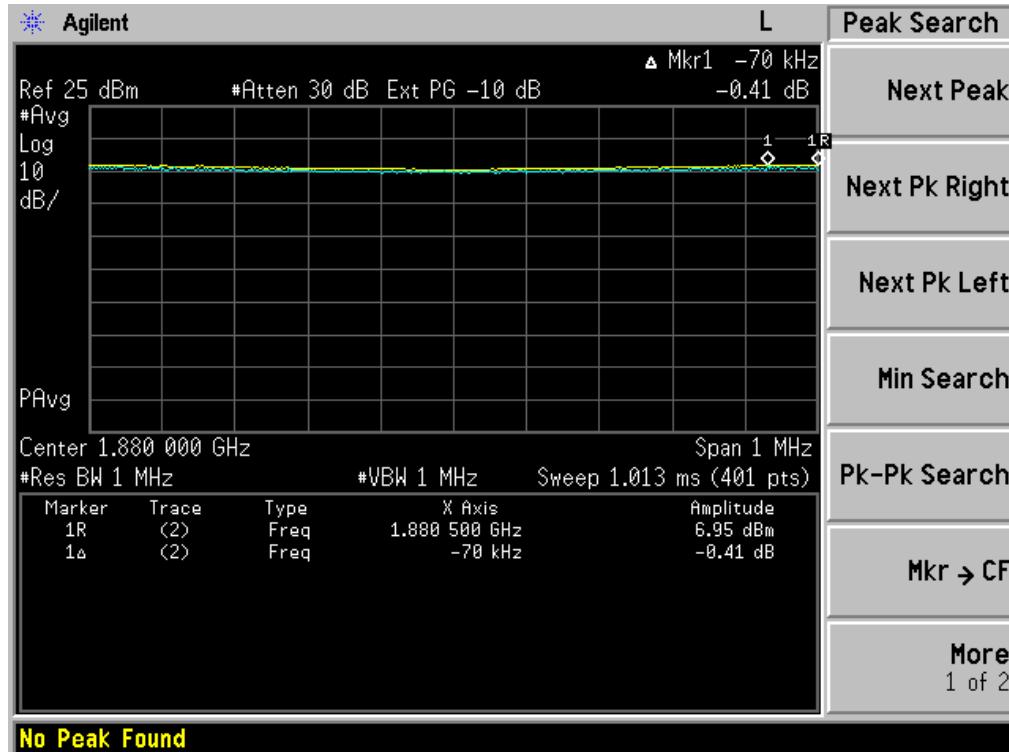


Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link
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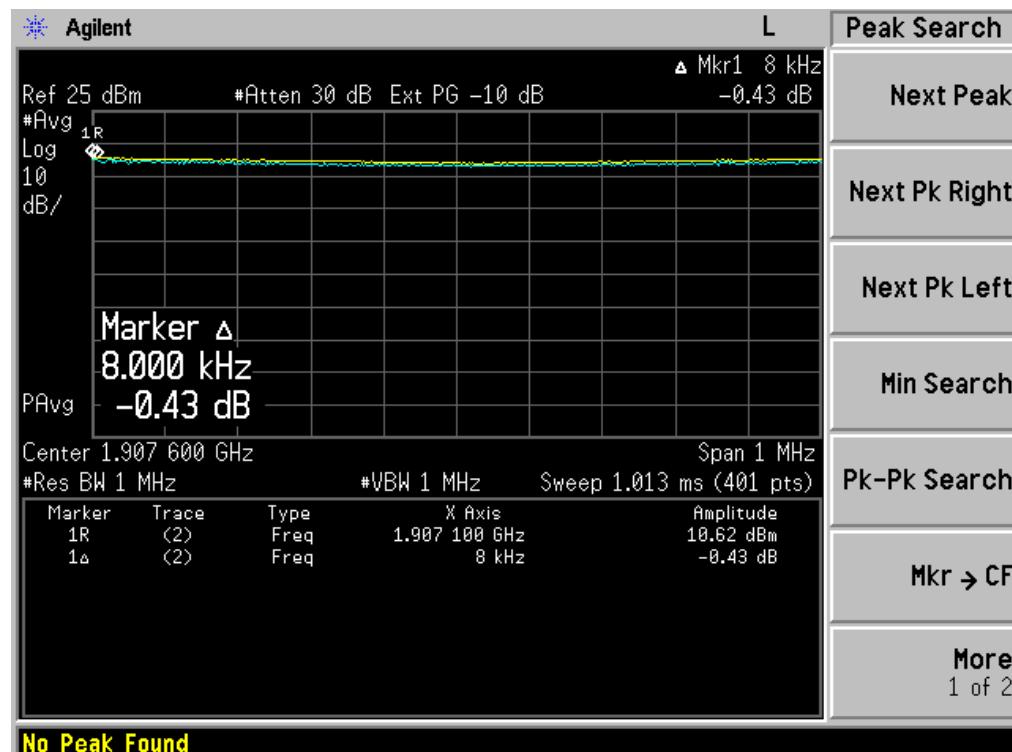
Peak-to-Average Ratio on Channel 9262



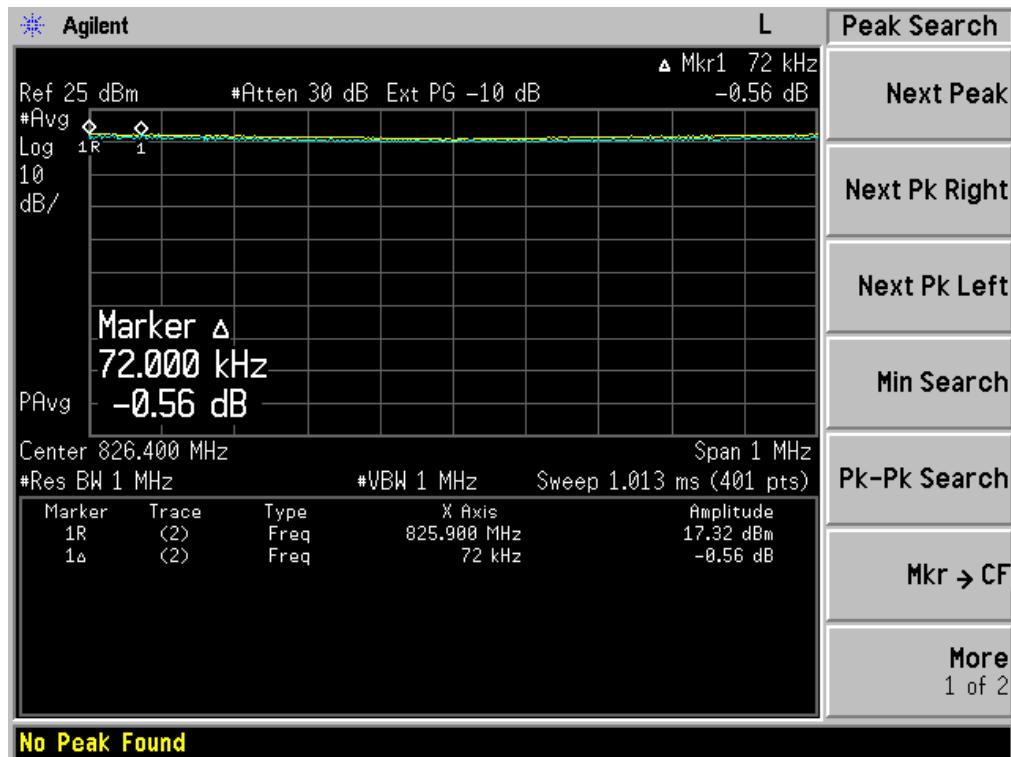
Peak-to-Average Ratio on Channel 9400



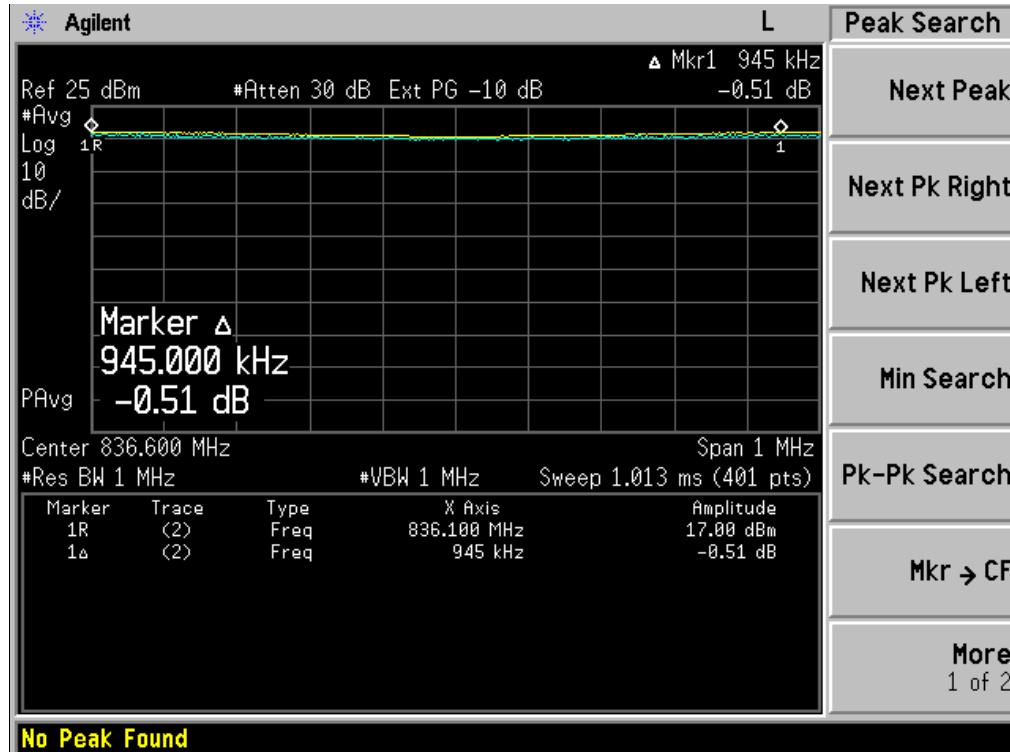
Peak-to-Average Ratio on Channel 9538



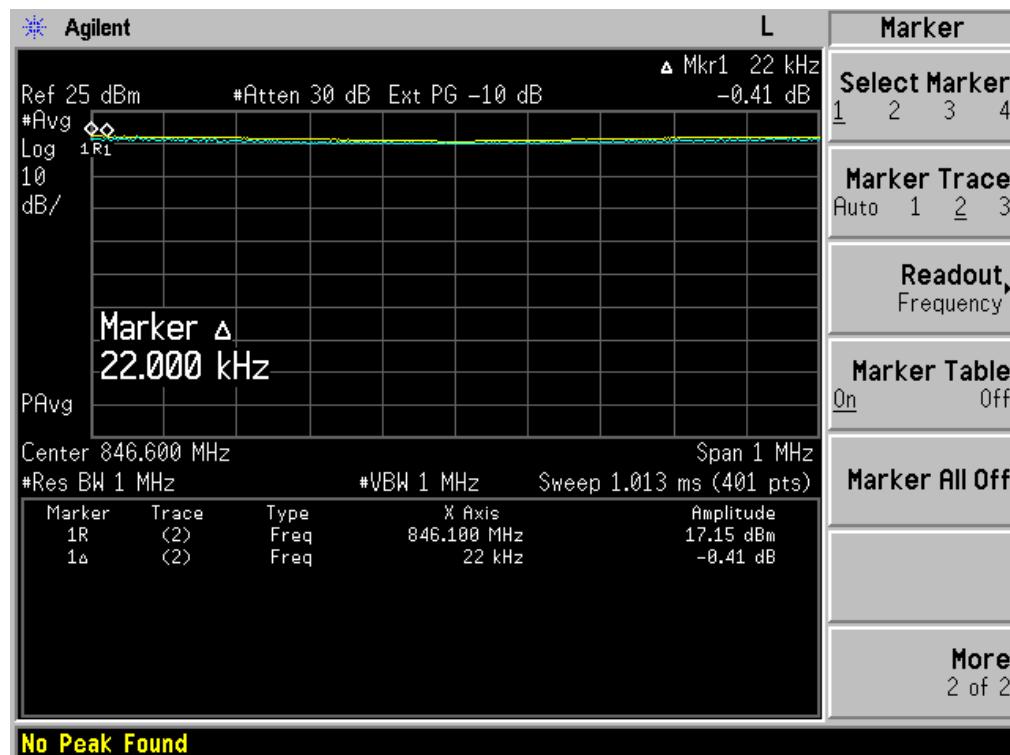
Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link
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Peak-to-Average Ratio on Channel 4132

Peak-to-Average Ratio on Channel 4183



Peak-to-Average Ratio on Channel 4233

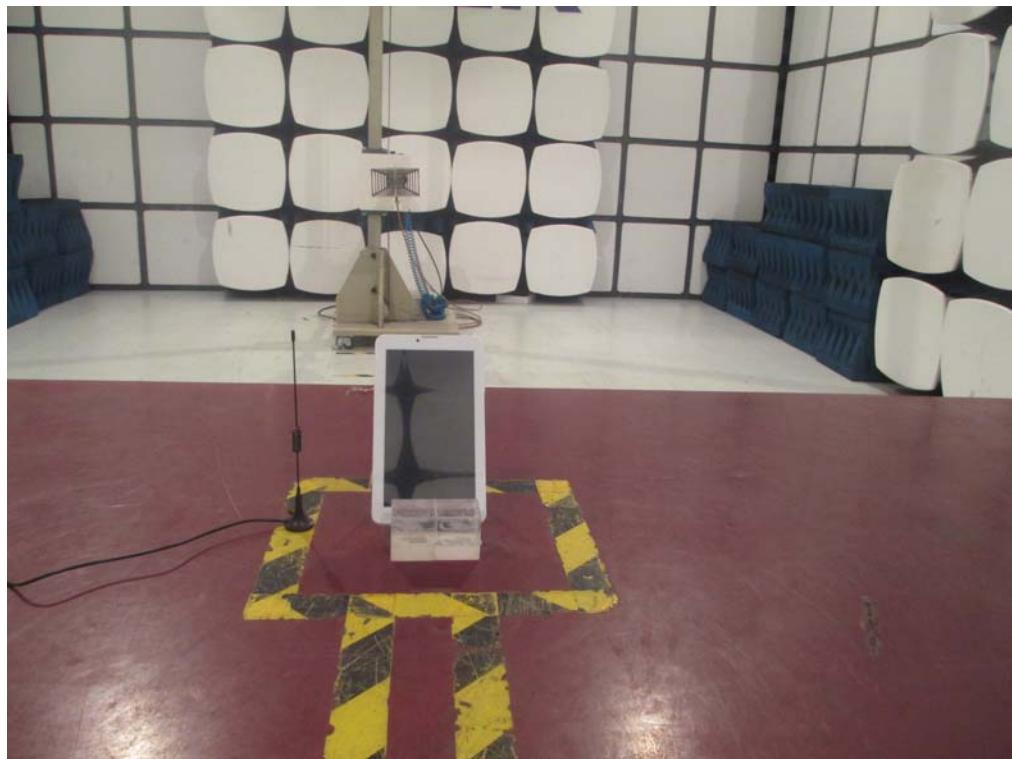


APPENDIX IV

PHOTOGRAPHS OF TEST SETUP

RADIATED SPURIOUS EMISSION





----END OF REPORT----