Cellphone-Mate, Inc.

ADDENDUM TO TEST REPORT 95353-9

Mobile Wideband Consumer Signal Booster
Model: TriFlex-2Go-T

Tested To The Following Standards:

FCC Part 20.21

Report No.: 95353-9A

Date of issue: April 11, 2014

A2LA ACCREDITED
Testing Certificates:
803.01, 803.02, 803.05, 803.06

This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

TABLE OF CONTENTS

ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

Cellphone-Mate, Inc.
48346 Milmont Drive
Fremont, CA 94538

Representative: Hongtao Zhan
Customer Reference Number: CKC20140129

REPORT PREPARED BY:

Morgan Tramontin
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 95353

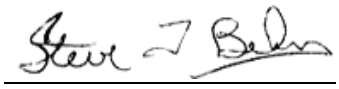
DATE OF EQUIPMENT RECEIPT: February 10, 2014
DATE(S) OF TESTING: February 10-14, 2014

Revision History

Original: Testing of the Mobile Wideband Consumer Signal Booster, TriFlex-2Go-T to FCC Part 20.21.
Addendum A: To replace data for sections 7.2 Maximum Power, 7.7 Noise Limit, 7.9 Booster Gain Limit and remove data from section 7.3 Maximum Gain. In section 7.2 Maximum Power the Vehicle Kit, Marine Kit and Desktop/RV Kit data were replaced with the new data. In section 7.3 Maximum Gain the Vehicle Kit, Marine Kit, and Desktop/RV Kit data were removed because those tables were identical to ones in section 7.2 Maximum Power. In section 7.7 Noise Limit the Noise Limits Summary Table data was replaced with new data. In section 7.9 Boost Gain Limit the Summary Results data was replaced with new data, added Vehicle Kit, Marine Kit and Desktop/RV Kit, removed the Booster Gain Summary table, and replaced the Variable Uplink Booster Gain plot.

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information

Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
110 Olinda Place
Brea, CA 92823

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.00.14

Site Registration & Accreditation Information

Location	CB #	TAIWAN	CANADA	FCC	JAPAN
Brea D	US0060	SL2-IN-E-1146R	3082D-2	100638	A-0147

SUMMARY OF RESULTS

Standard / Specification: FCC Part 20.21

Draft KDB 935210 D03 Wideband Consumer Signal Booster Measurement Guidance DR04 41516 (August 7th , 2013)		FCC Part 20.21 Section Correlation		Results
Guidance Sec #	**Guidance Description**	**FCC Sec #**	**FCC Rule Description**	
7.1	Authorized Frequency Band Verification	20.21(e)(3)	Frequency Bands	Pass
7.2	Maximum Power Measurement Procedure	20.21(e)(8)(i)(D)	Power Limit	Pass
7.3	Maximum Booster Gain Computation	20.21(e)(8)(i)(B)	Bidirectional Capabilities	Pass
7.4	Intermodulation Product	20.21(e)(8)(i)(F)	Intermodulation Limit	Pass
7.5	Out of Band Emissions	20.21(e)(8)(i)(E)	Out of Band Emission	Pass
7.6[1]	Conducted Spurious Emission[1]	Part 22/24/27[1]	Conducted Spurious Emission[1]	NA[1]
7.7a) to g) 7.7h) to m) 7.7n) to t)	Noise Limit procedure Variable Noise Variable Noise Timing	20.21(e)(8)(i)(A)(2) 20.21(e)(8)(i)(A)(1) 20.21(e)(8)(i)(H)	Noise Limits Transmit power off Mode	Pass
7.8.	Uplink inactivity	20.21(e)(8)(i)(I)	Uplink inactivity	Pass
7.9a) to l) 7.9m) to s)	Variable Booster gain Variable Uplink Gain Timing	20.21(e)(8)(i)(C) (1),(2) 20.21(e)(8)(i)(H)	Booster Gain Transmit Power Off Mode	Pass
7.10[1]	Occupied Band Width[1]	2.1049 Part 22/24/27[1]	Occupied Bandwidth[1]	NA[1]
7.11	Oscillation Detection	20.21(e)(8)(ii)(A)	Anti-oscillation	Pass
7.12[1]	Radiated Spurious Emission[1]	Part 22/24/27[1]	Radiated Spurious Emission[1]	NA[1]
7.13	Spectrum Block Filter	NA	NA	NA[2]

NA[1] = A different standard applies; see applicable test report.
NA[2] = Not applicable. See the section in the report for the reason.

Conditions During Testing

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

Summary of Conditions
None

EQUIPMENT UNDER TEST (EUT)

EQUIPMENT UNDER TEST

Mobile Wideband Consumer Signal Booster
Manuf: Cellphone-Mate, Inc.
Model: TriFlex-2Go-T
Serial: NA

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

Signal Generator
Manuf: Agilent
Model: E4433B
Serial: US40052164

Signal Generator
Manuf: Agilent
Model: E4438C
Serial: MY42081492

Power Supply
Manuf: Guang Zhou Ji Yin Electronics Co. , LTD
Model: TH-442
Serial: 2008010907286265

Combiner
Manuf: Anaran
Model: 44000
Serial: 0583

Signal Generator
Manuf: Agilent
Model: E4433B
Serial: US40053279

Power Supply
Manuf: SureCall
Model: GFP451DA-0945-1
Serial: 1308-0000300

FCC PART 20.21

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) CFR 47 Clause 20.21.(e)(8) requirements for Wideband Consumer Signal Boosters.

Clause 7.1 Authorized Frequency Band Verification

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea CA 92823 • 714-993-6112

Customer:	**Cellphone-Mate, Inc.**		
Specification:	**7.1 Authorized Frequency Band Verification**		
Work Order #:	**95353**	Date:	2/14/2014
Test Type:	**Conducted Emissions**	Time:	08:53:16
Equipment:	**Mobile Wideband Consumer Signal Booster**	Sequence#:	10
Manufacturer:	Cellphone-Mate, Inc.	Tested By:	Don Nguyen
Model:	TriFlex-2Go-T		120V 60Hz
S/N:	NA		

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015
T2	AN02672	Spectrum Analyzer	E4446A	9/4/2012	9/4/2014
T3	AN03431	Attenuator	89-20-21	9/5/2013	9/5/2015

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster*	Cellphone-Mate, Inc.	TriFlex-2Go-T	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4433B	US40052164
Power Supply	SureCall	GFP451DA-0945-1	1308-0000325

Test Conditions / Notes:

The equipment under test (EUT) is placed on the table top. EUT set at maximum gain. Signal generator is connected to input port of EUT. Output port of EUT is connected to spectrum analyzer via 20db attenuator and RF cable.
Evaluation performed at the Outside (Donor) and Inside (Server) antenna port.
EUT is powered by 9V power supply.

UL 824-849
DL 869-894

UL 1850-1910
DL 1930-1990

UL 1710-1755
DL 2110-2155

Test procedure: The test was performed in accordance with section 7.1 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 22, 2014.

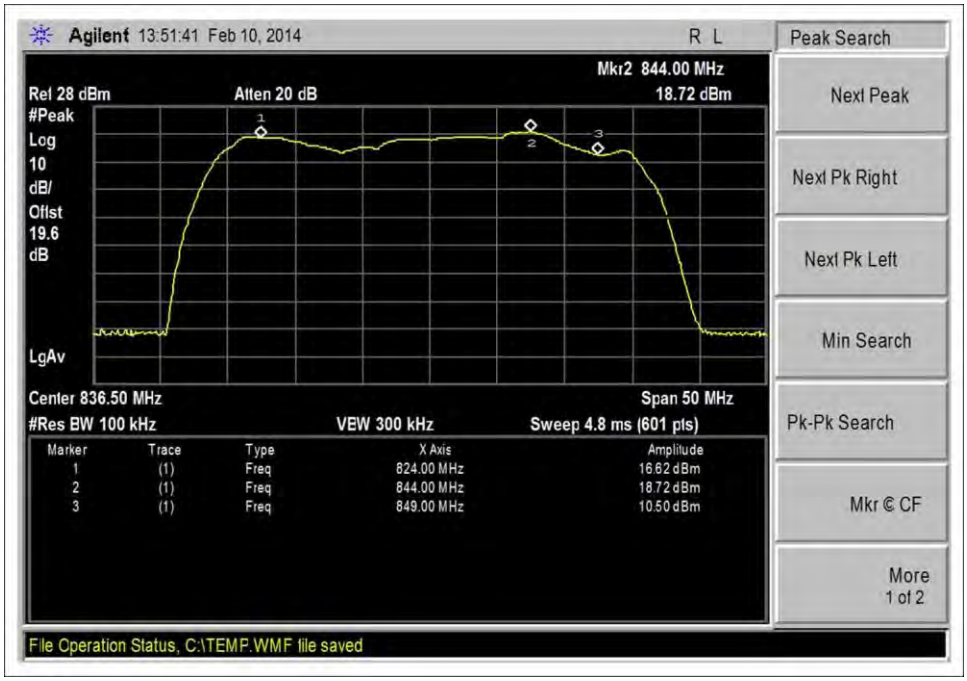
Temperature: 19°C, Humidity: 36%, Pressure: 100.1kPa

Site D

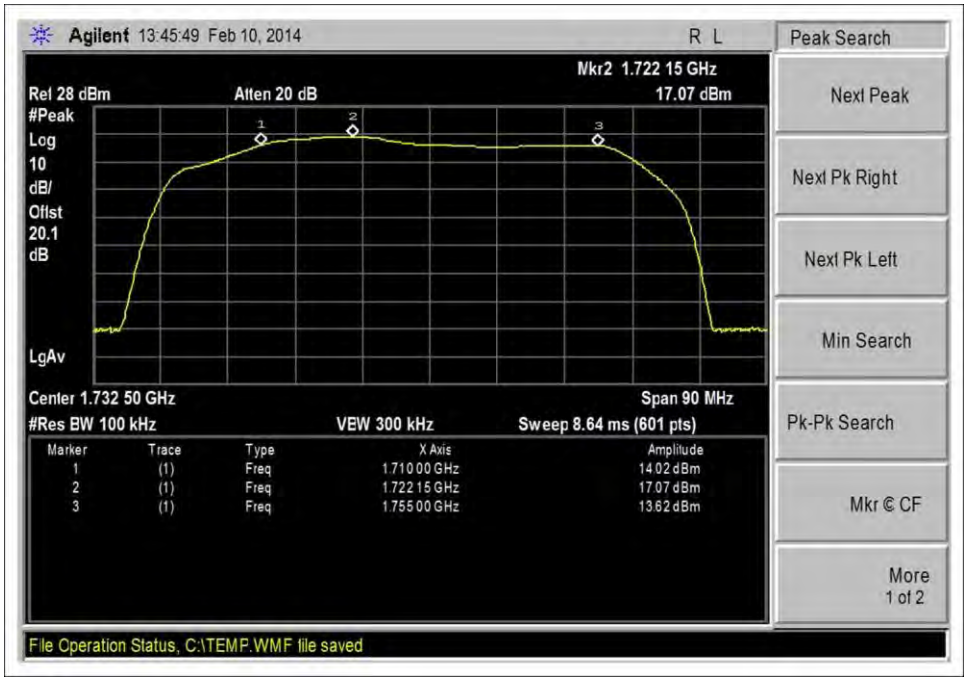
Summary of Results

Pass: The plots show the device only operates on the CMRS frequency bands authorized for use by the NPS.

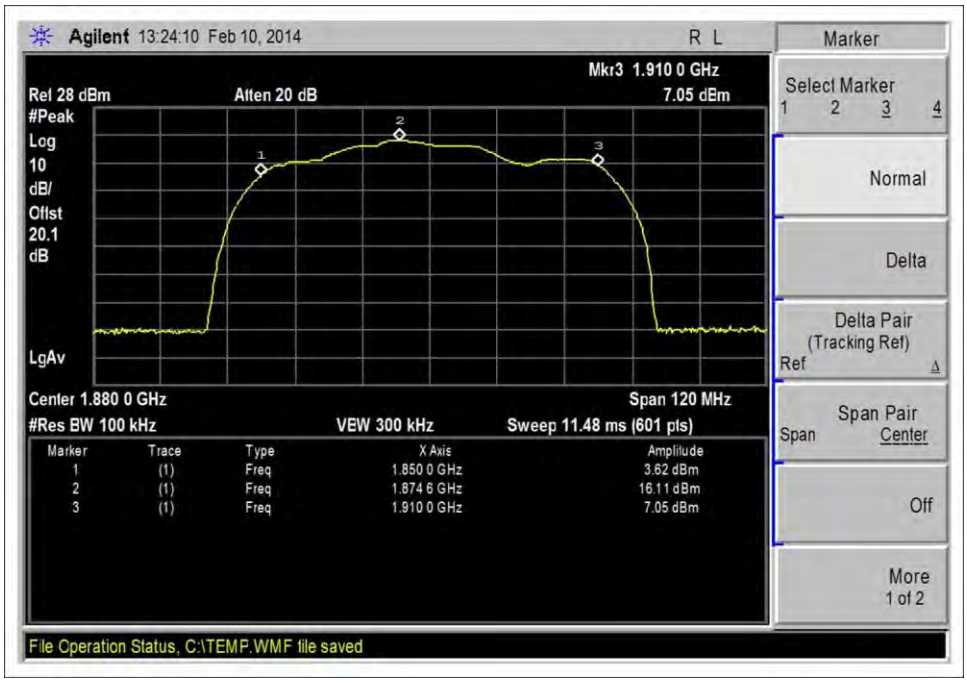
Test Data



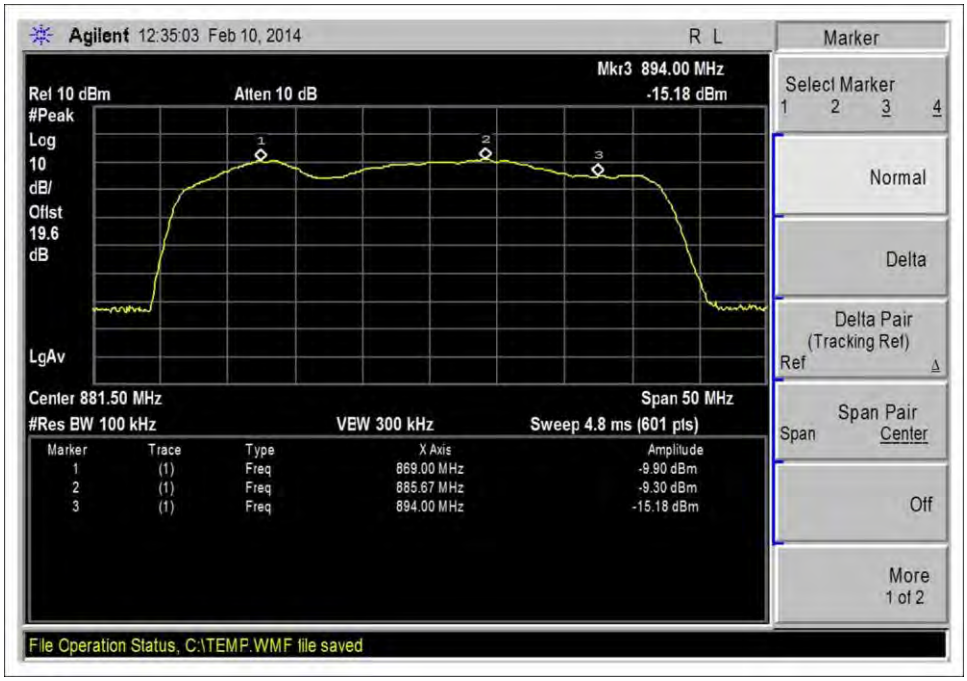
UL - 824-849, peak 844



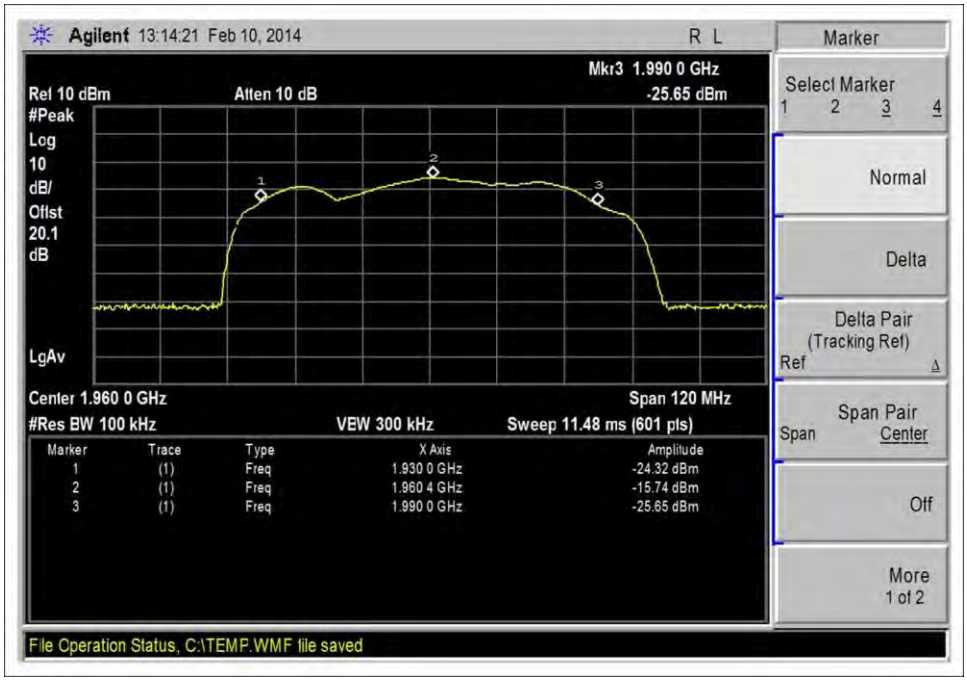
UL - 1710-1755, peak 1722.15



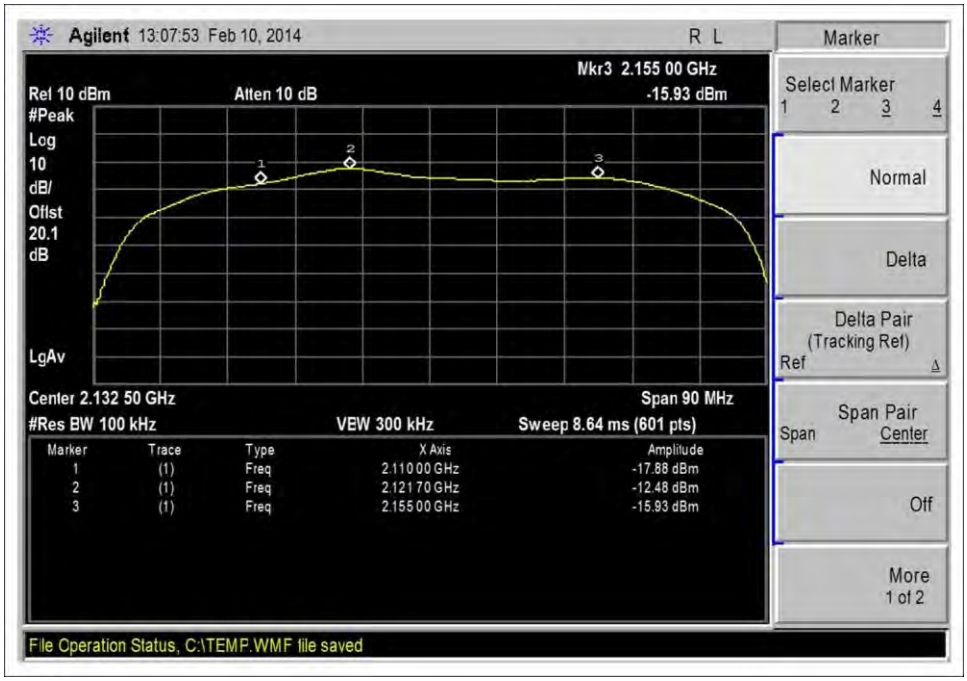
UL - 1850-1910, peak 1874.6



DL - 869-894, peak 885.67



DL - 1930-1990, peak 1960.4



DL - 2110-2155, peak 2121.7

Test Setup Photo(s)

Clause 7.2 Maximum Power

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea CA 92823 • 714-993-6112

Customer: **Cellphone-Mate, Inc.**
Specification: **7.2 Maximum Power**
Work Order #: **95353** Date: 2/14/2014
Test Type: **Conducted Emissions** Time: 08:53:16
Equipment: **Mobile Wideband Consumer Signal Booster** Sequence#: 10
Manufacturer: Cellphone-Mate, Inc. Tested By: Don Nguyen
Model: TriFlex-2Go-T 120V 60Hz
S/N: NA

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015
T2	AN02672	Spectrum Analyzer	E4446A	9/4/2012	9/4/2014
T3	AN03431	Attenuator	89-20-21	9/5/2013	9/5/2015

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster*	Cellphone-Mate, Inc.	TriFlex-2Go-T	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4433B	US40052164
Power Supply	SureCall	GFP451DA-0945-1	1308-0000325
Power Supply	Guang Zhou Ji Yin Electronics Co., LTD	TH-242	2008010907286265

Test Conditions / Notes:

The equipment under test (EUT) is placed on the table top. EUT set at maximum gain. Signal generator is connected to input port of EUT. Output port of EUT is connected to spectrum analyzer via 20db attenuator and RF cable. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port. EUT is powered by 9V power supply.
UL 824-849
DL 869-894

UL 1850-1910
DL 1930-1990

UL 1710-1755
DL 2110-2155

Input signal: Pulsed GSM and AWGN 4.1MHz.
Test procedure: The test was performed in accordance with section 7.2 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 22, 2014
Temperature: 19°C, Humidity: 36%, Pressure: 100.1kPa
Note: Maximum power measurement was verified with 12V power supply and found no change.
Site D

Summary of Results

Pass: As summarized in table below.

Vehicle Kit

Pulse GSM					
Frequency	Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit(dBm)
DL 869-894	-6.6	1.1	4.3	**-9.8**	17
DL 1930-1990	-13.5	3	8.8	**-19.3**	17
DL 2110-2155	-11.1	3	6.98	**-15.1**	17
UL 824-849	19.4	3	4.3	**18.1**	30
UL 1850-1910	17.9	5	8.8	**14.1**	30
UL 1710-1755	18.8	5	6.98	**16.8**	30

4.1MHz AWGN					
Frequency	Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit(dBm)
DL 869-894	-7.03	1.1	4.3	**-10.2**	17
DL 1930-1990	-14.69	3	8.8	**-20.5**	17
DL 2110-2155	-11.2	3	6.98	**-15.2**	17
UL 824-849	18.9	3	4.3	**17.6**	30
UL 1850-1910	17.5	5	8.8	**13.7**	30
UL 1710-1755	18.7	5	6.98	**16.7**	30

Marine Kit

Pulse GSM					
Frequency	Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit(dBm)
DL 869-894	-6.6	7	2.29	**-1.9**	17
DL 1930-1990	-13.5	10	3.56	**-7.0**	17
DL 2110-2155	-11.1	10	3.36	**-4.4**	17
UL 824-849	19.4	3	3.98	**18.4**	30
UL 1850-1910	17.9	4	6.52	**15.4**	30
UL 1710-1755	18.8	4	6.12	**16.7**	30

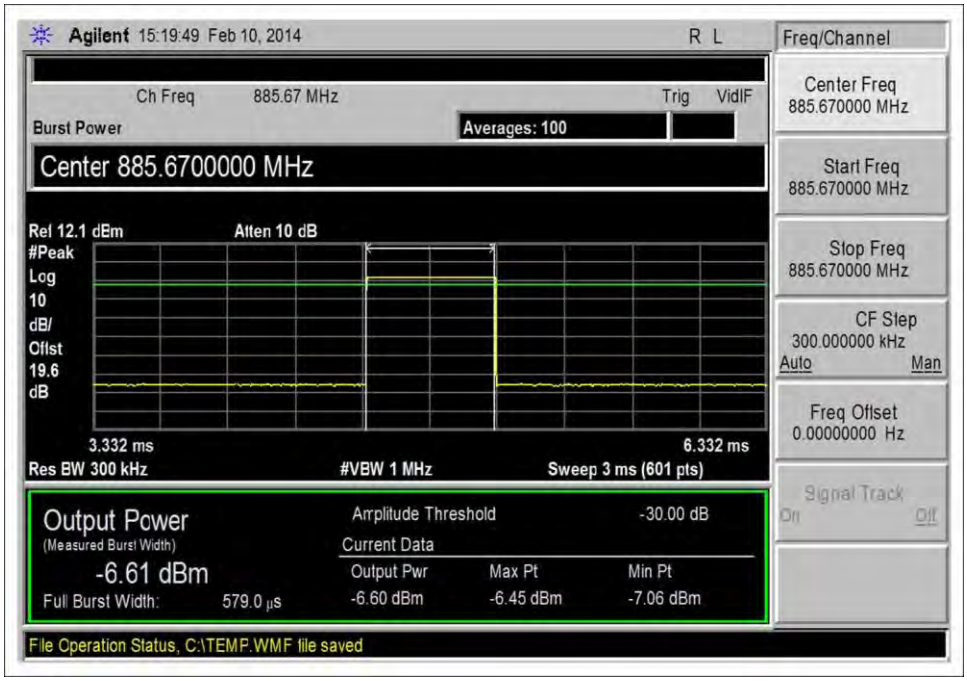
4.1MHz AWGN					
Frequency	Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit(dBm)
DL 869-894	-7.03	7	2.29	**-2.3**	17
DL 1930-1990	-14.69	10	3.56	**-8.3**	17
DL 2110-2155	-11.2	10	3.36	**-4.6**	17
UL 824-849	18.9	3	3.98	**17.9**	30
UL 1850-1910	17.5	4	6.52	**15.0**	30
UL 1710-1755	18.7	4	6.12	**16.6**	30

Desktop/RV Kit

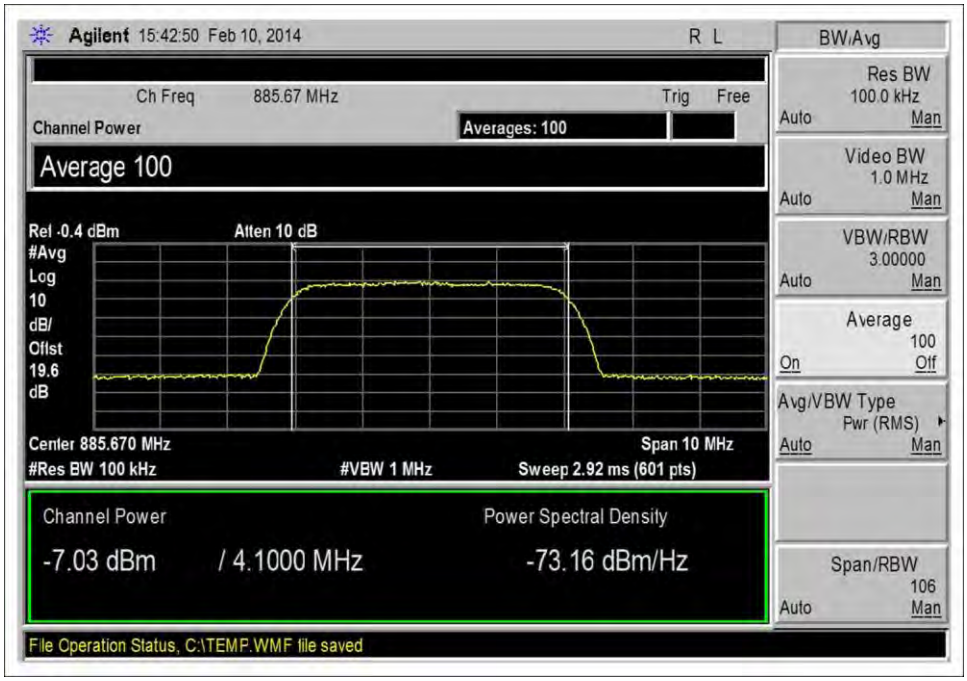
Pulse GSM					
Frequency	Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit(dBm)
DL 869-894	-6.6	1.2	0.3	**-5.7**	17
DL 1930-1990	-13.5	3	0.3	**-10.8**	17
DL 2110-2155	-11.1	3	0.3	**-8.4**	17
UL 824-849	19.4	3	3.98	**18.4**	30
UL 1850-1910	17.9	4	6.52	**15.4**	30
UL 1710-1755	18.8	4	6.12	**16.7**	30

4.1MHz AWGN					
Frequency	Output Power	Ant Gain	Cable Loss	EIRP(dBm)	Limit(dBm)
DL 869-894	-7.03	1.2	0.3	**-6.1**	17
DL 1930-1990	-14.69	3	0.3	**-12.0**	17
DL 2110-2155	-11.2	3	0.3	**-8.5**	17
UL 824-849	18.9	3	3.98	**17.9**	30
UL 1850-1910	17.5	4	6.52	**15.0**	30
UL 1710-1755	18.7	4	6.12	**16.6**	30

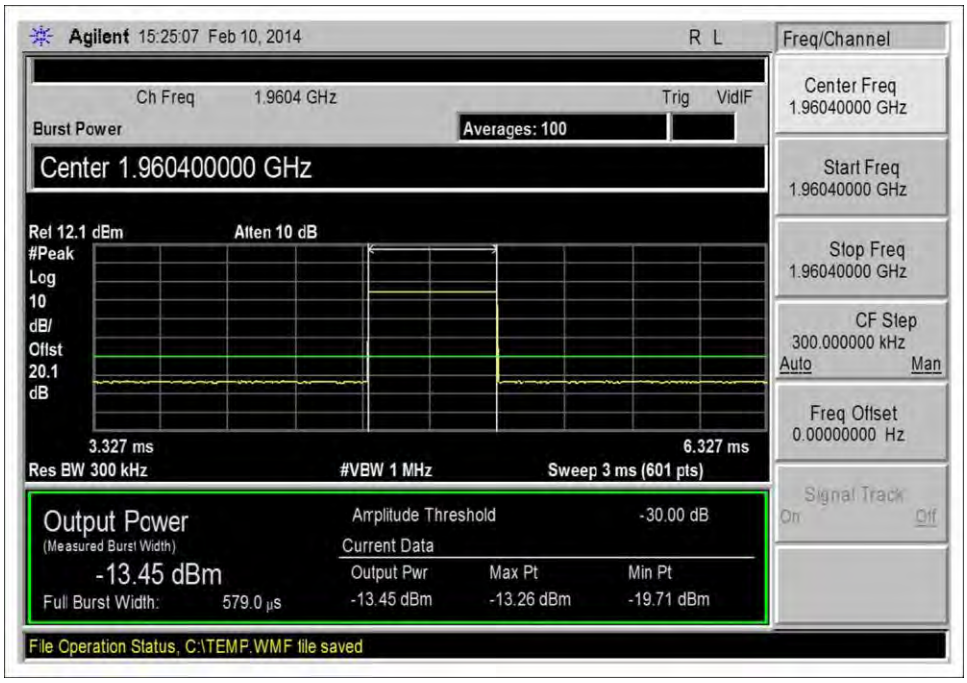
Test Data



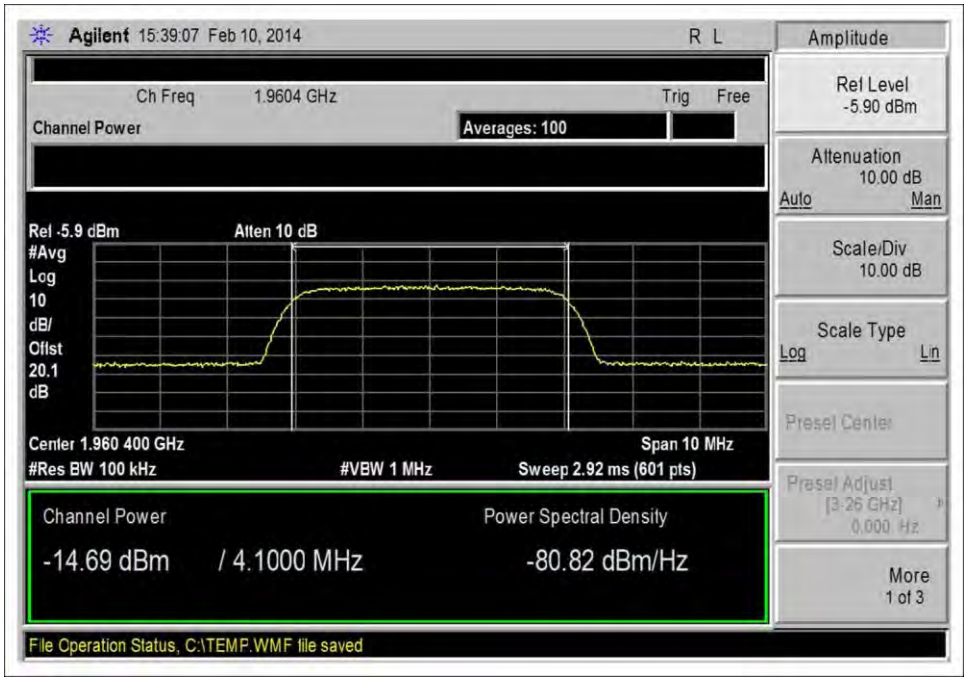
DL - 869-894 GSM, Max Power



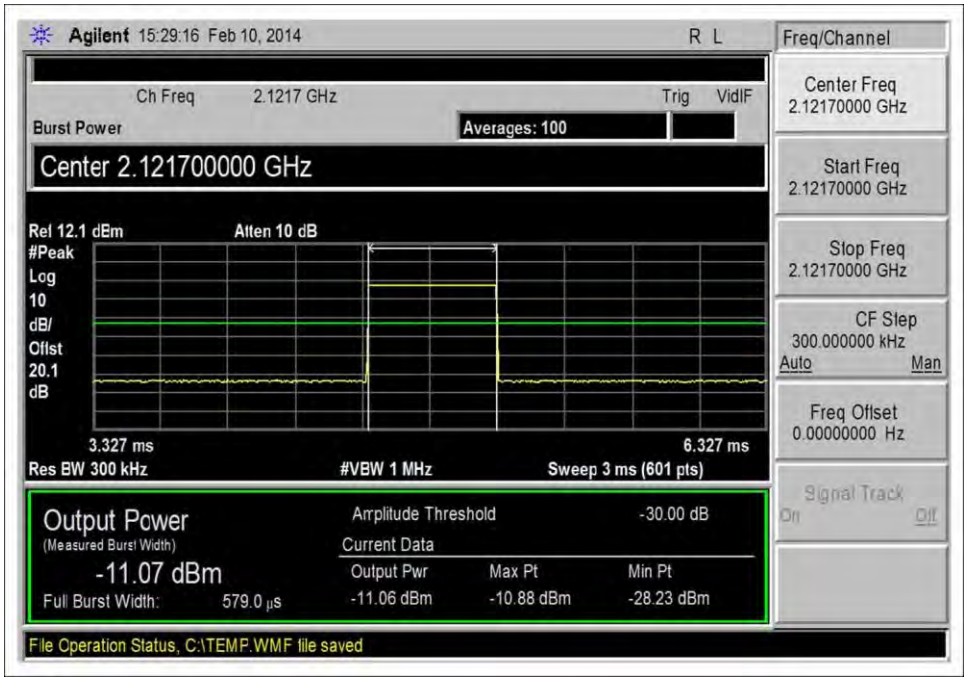
DL - 869-894 AWGN, Max Power



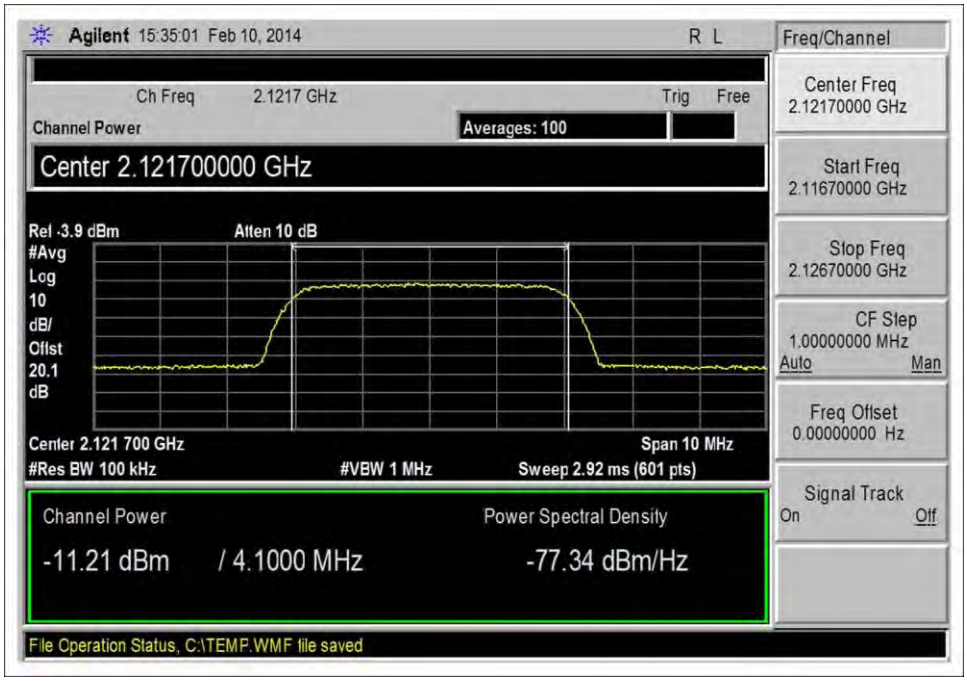
DL - 1930-1990 GSM, Max Power



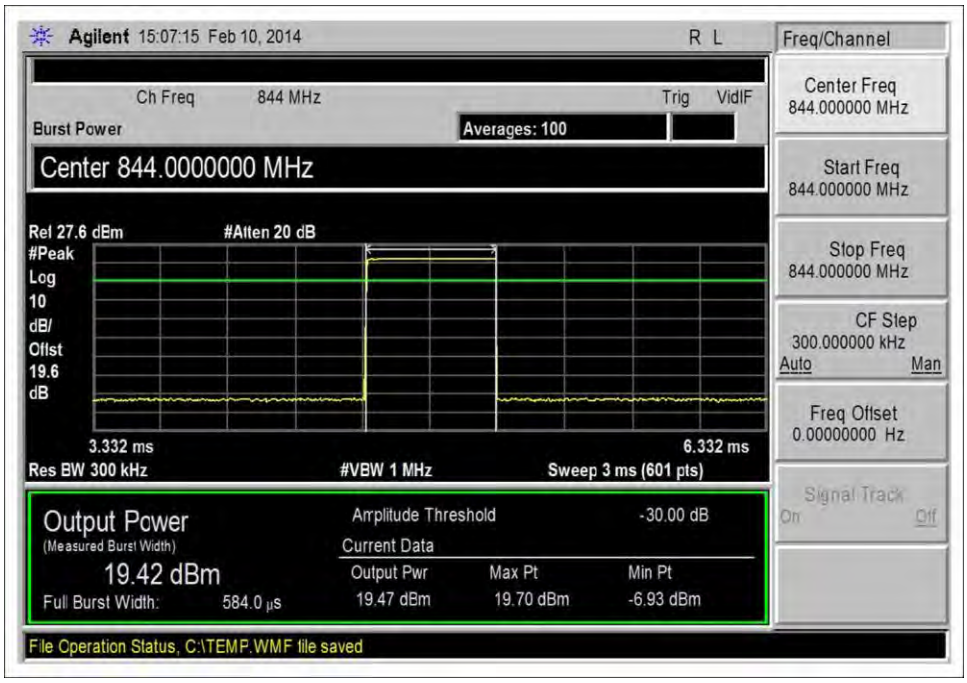
DL - 1930-1990 AWGN, Max Power



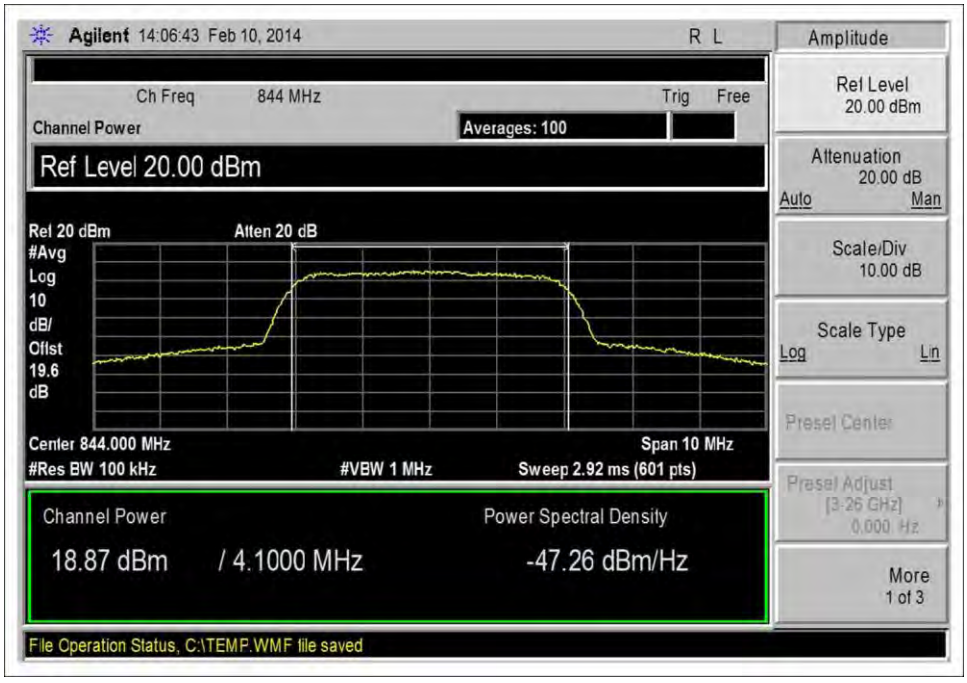
DL - 2110-2155 GSM, Max Power



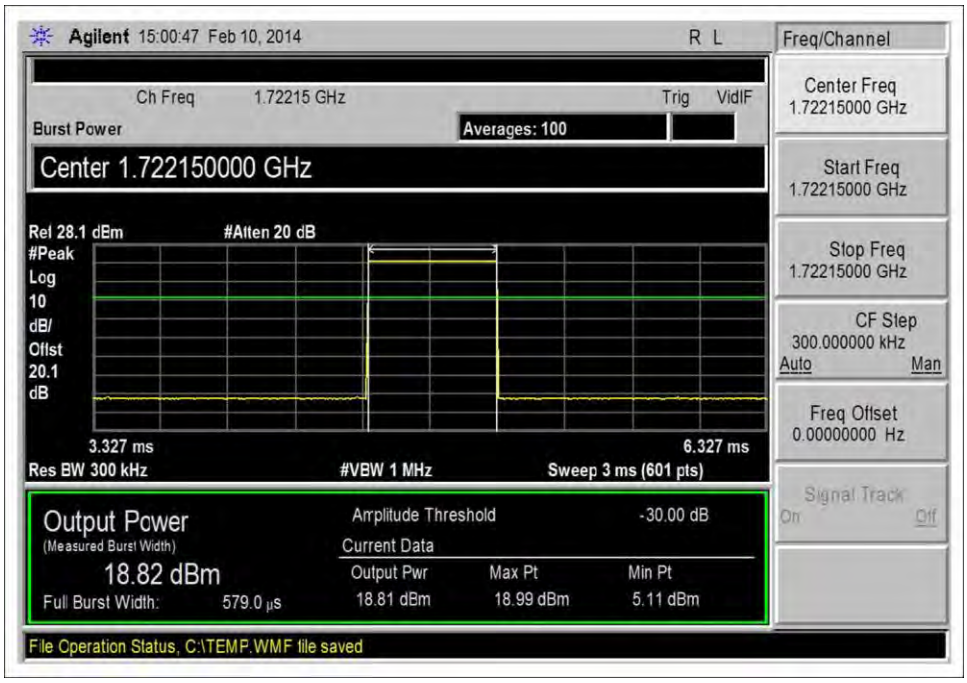
DL - 2110-2155 AWGN, Max Power



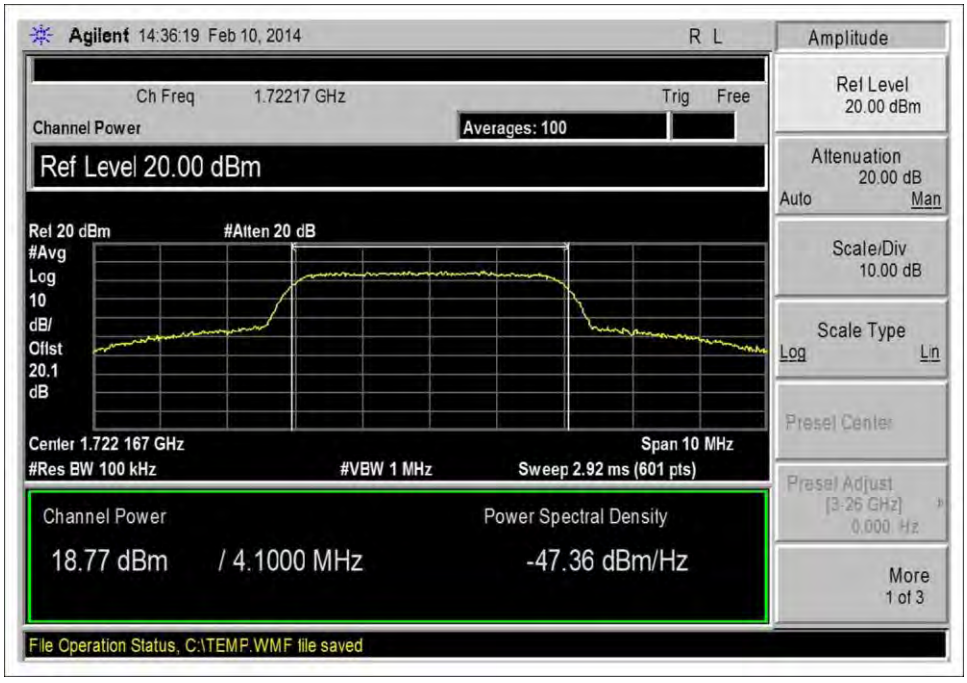
UL - 824-849 GSM, Max Power



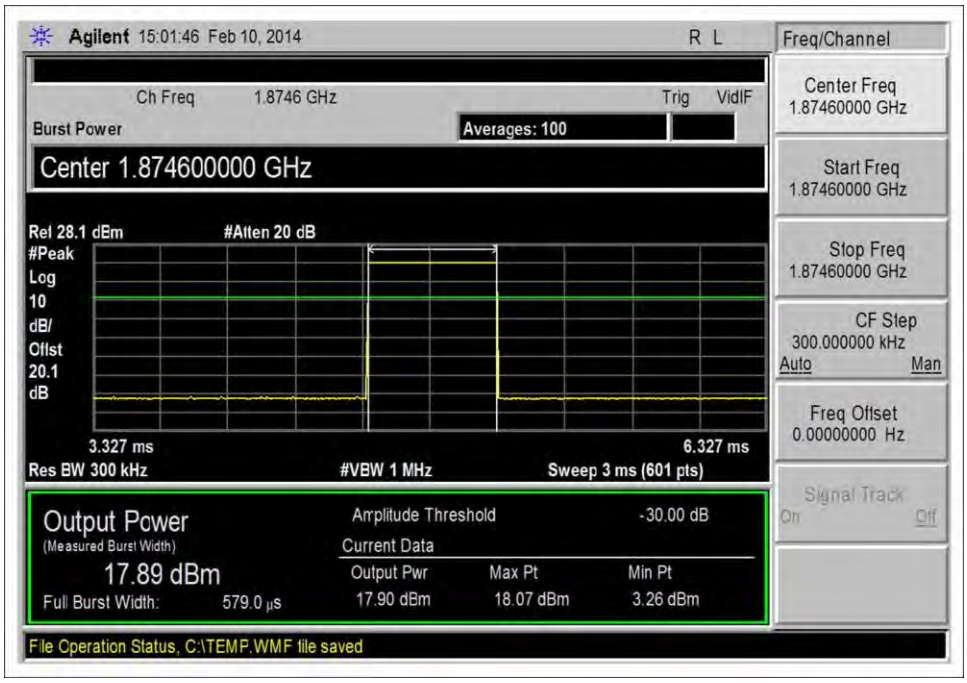
UL - 824-849 AWGN, Max Power



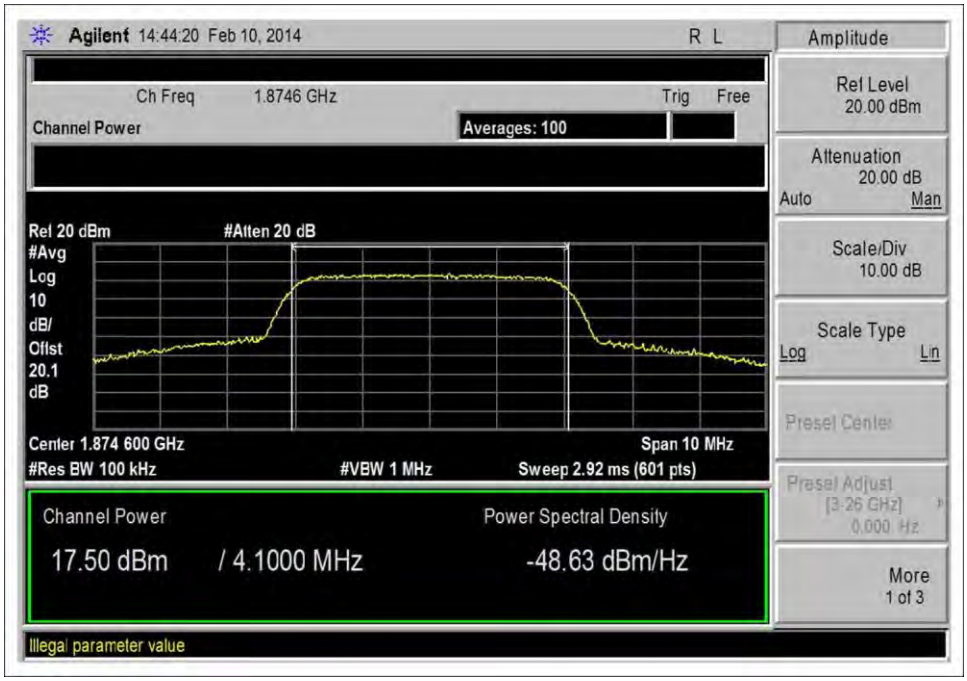
UL - 1710-1755 GSM, Max Power



UL - 1710-1755 AWGN, Max Power



UL - 1850-1910 GSM, Max Power



UL - 1850-1910 AWGN, Max Power

Test Setup Photo(s)

Clause 7.3 Maximum Gain

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea CA 92823 • 714-993-6112

Customer:	**Cellphone-Mate, Inc.**		
Specification:	**7.3 Maximum Booster Gain Computation**		
Work Order #:	**95353**	Date:	2/14/2014
Test Type:	**Conducted Emissions**	Time:	08:53:16
Equipment:	**Mobile Wideband Consumer Signal Booster**	Sequence#:	10
Manufacturer:	Cellphone-Mate, Inc.	Tested By:	Don Nguyen
Model:	TriFlex-2Go-T		120V 60Hz
S/N:	NA		

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015
T2	AN02672	Spectrum Analyzer	E4446A	9/4/2012	9/4/2014
T3	AN03431	Attenuator	89-20-21	9/5/2013	9/5/2015

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster*	Cellphone-Mate, Inc.	TriFlex-2Go-T	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4433B	US40052164
Power Supply	SureCall	GFP451DA-0945-1	1308-0000325

Test Conditions / Notes:

The equipment under test (EUT) is placed on the table top. EUT set at maximum gain. Signal generator is connected to input port of EUT. Output port of EUT is connected to spectrum analyzer via 20db attenuator and RF cable. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port. EUT is powered by 9V power supply.

UL 824-849
DL 869-894

UL 1850-1910
DL 1930-1990

UL 1710-1755
DL 2110-2155

Input signal: Pulsed GSM and AWGN 4.1MHz.

Test procedure: The test was performed in accordance with section 7.3 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 22, 2014

Temperature: 19°C, Humidity: 36%, Pressure: 100.1kPa
Site D

Summary of Test Results

Pass: as summarized in table below, gain limit for mobile booster is 50db.

	Pulse GSM			4.1 MHz AWGN		
Frequency	Input (dBm)	Output (dBm)	Gain (dB)	Input (dBm)	Output (dBm)	Gain (dB)
DL 869-894	-50.1	-6.6	43.5	-50.08	-7.03	43.1
DL 1930-1990	-56.4	-13.5	43.0	-56.48	-14.69	41.8
DL 2110-2155	-53.9	-11.1	42.8	-53.9	-11.2	42.7
UL 824-849	-25.2	19.4	44.6	-21.1	18.9	40.0
UL 1850-1910	-23.5	17.9	41.4	-23.6	17.5	41.1
UL 1710-1755	-23.5	18.8	42.3	-23.3	18.7	42.0

	Pulse GSM	4.1 MHz AWGN
UL gain vs DL gain 824/869	1.1	-3.1
UL gain vs DL gain 1850/1930	-1.6	-0.7
UL gain vs DL gain 1710/2110	-0.5	-0.7

Test Setup Photo(s)

7.3 Maximum Booster Gain Computation.
Note: For this section there is no setup photo available, this section consists of calculations only.

Clause 7.4 Intermodulation Product

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea CA 92823 • 714-993-6112

Customer: **Cellphone-Mate, Inc.**
Specification: **7.4 Intermodulation**
Work Order #: **95353** Date: 2/14/2014
Test Type: **Conducted Emissions** Time: 08:53:16
Equipment: **Mobile Wideband Consumer Signal Booster** Sequence#: 10
Manufacturer: Cellphone-Mate, Inc. Tested By: Don Nguyen
Model: TriFlex-2Go-T 120V 60Hz
S/N: NA

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015
T2	AN02672	Spectrum Analyzer	E4446A	9/4/2012	9/4/2014
T3	AN03431	Attenuator	89-20-21	9/5/2013	9/5/2015

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster*	Cellphone-Mate, Inc.	TriFlex-2Go-T	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4433B	US40052164
Signal Generator	Agilent	E4438C	MY42081492
Power Supply	SureCall	GFP451DA-0945-1	1308-0000325
Combiner	Anaren	44000	0583

Test Conditions / Notes:

The equipment under test (EUT) is placed on the table top. EUT set at maximum gain. Two signal generators are connected to input ports of the combiner. Output port of combiner is connected to input port of the EUT. Output port of EUT is connected to spectrum analyzer via 20db attenuator and RF cable. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port. EUT is powered by 9V power supply.

UL 824-849
DL 869-894

UL 1850-1910
DL 1930-1990

UL 1710-1755
DL 2110-2155

Test procedure: The test was performed in accordance with section 7.4 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 22, 2014.

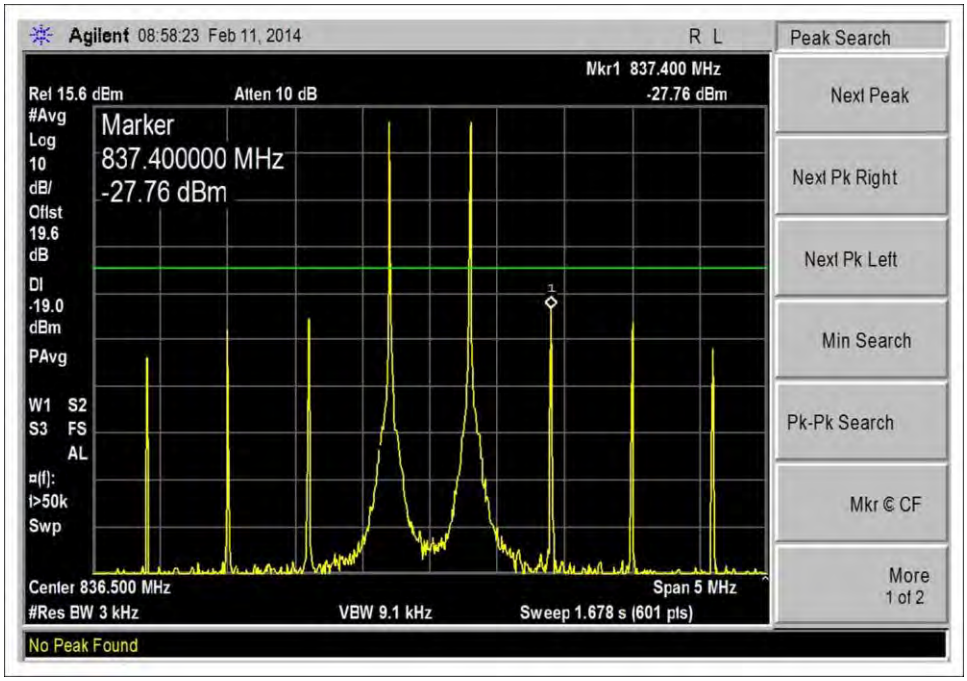
Temperature: 19°C, Humidity: 36%, Pressure: 100.1kPa

Site D

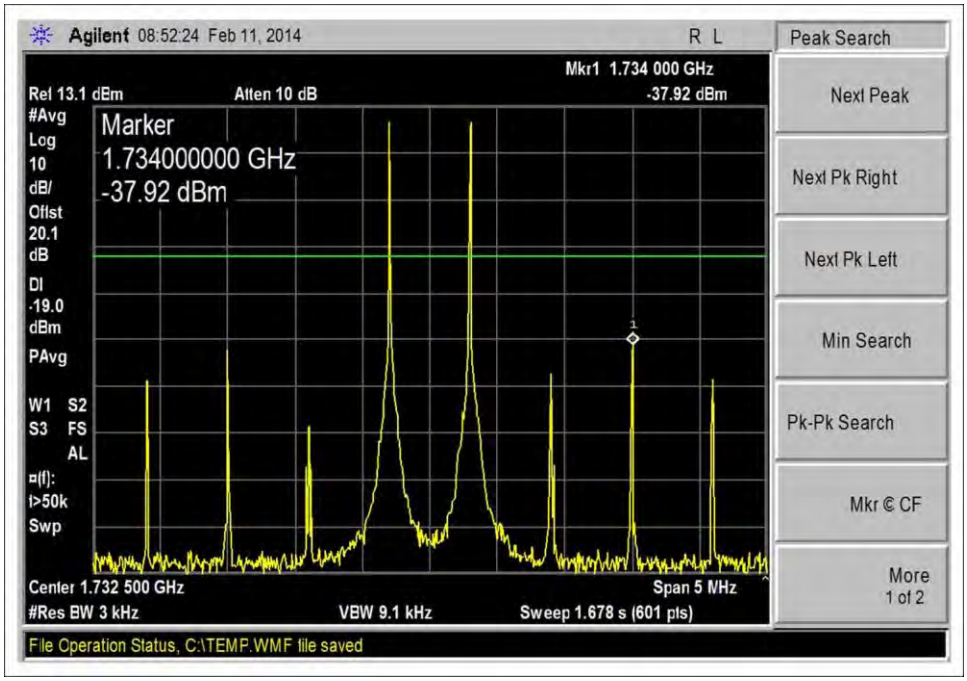
Summary of Results

Pass: All intermodulation products are measured below -19dbm limit.

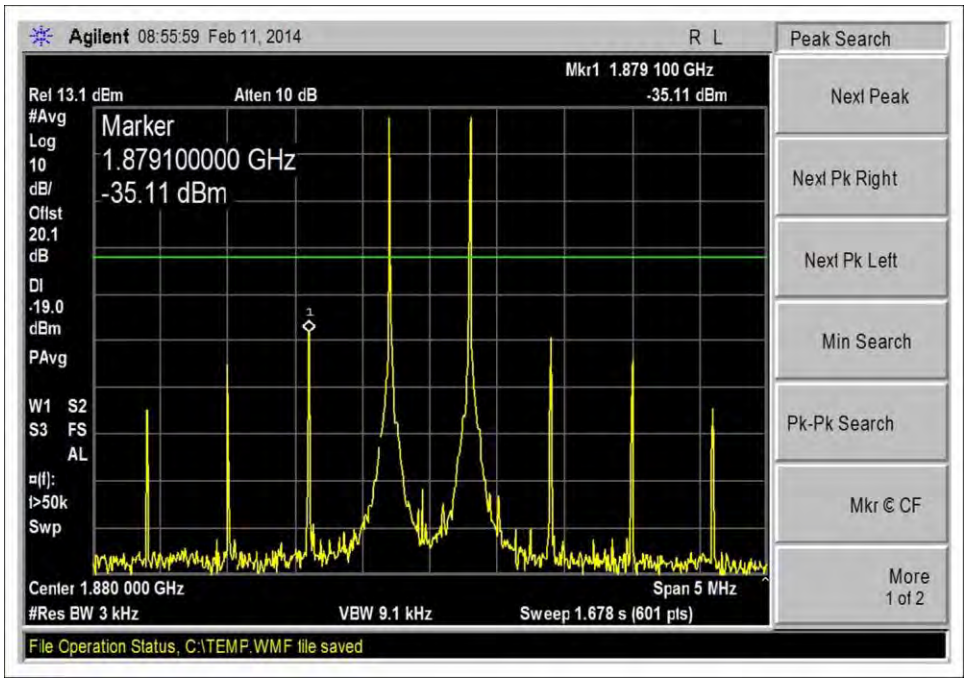
Test Data



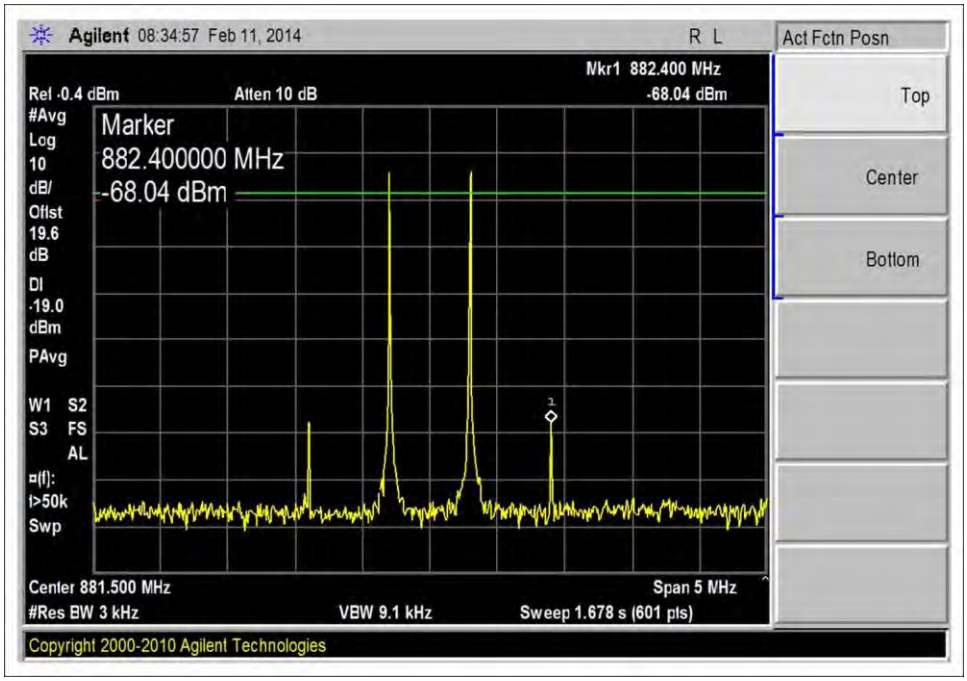
UL - 824-849, Intermodulation



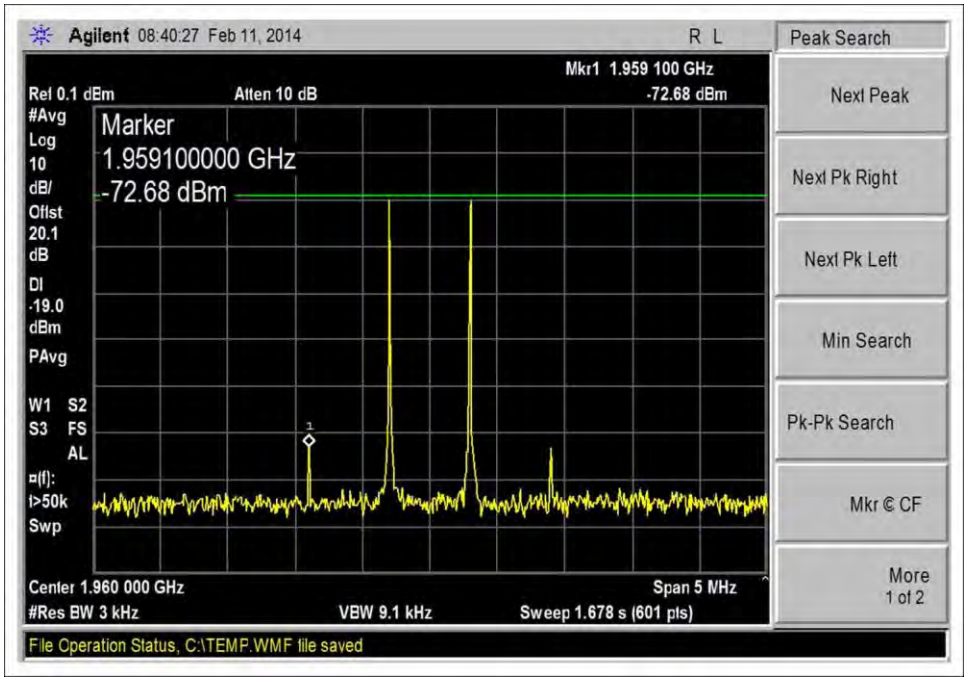
UL - 1710-1755, Intermodulation



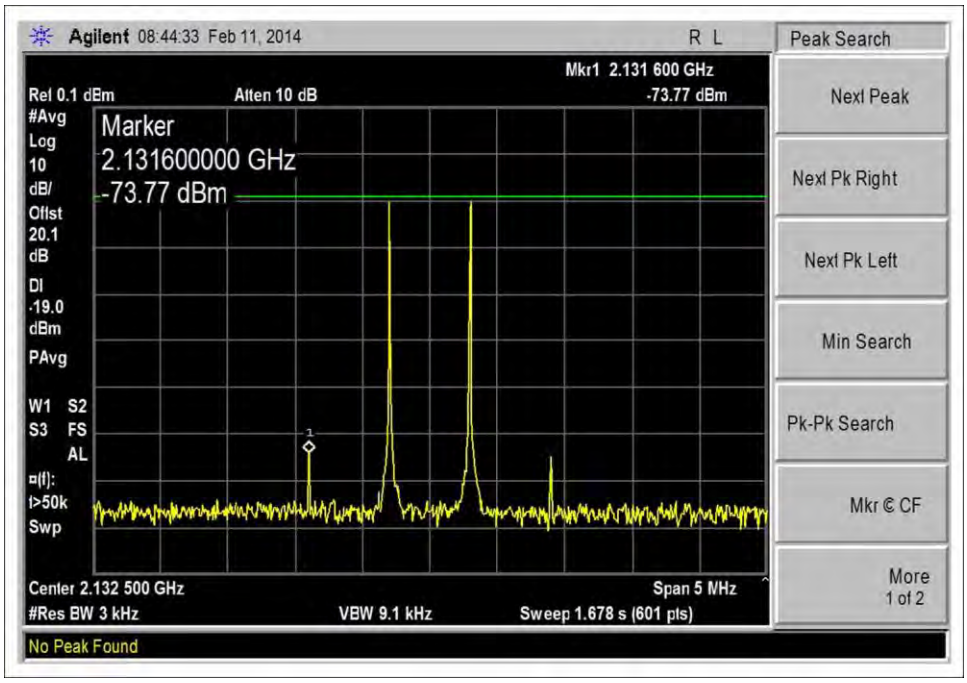
UL - 1850-1910, Intermodulation



DL - 869-894, Intermodulation

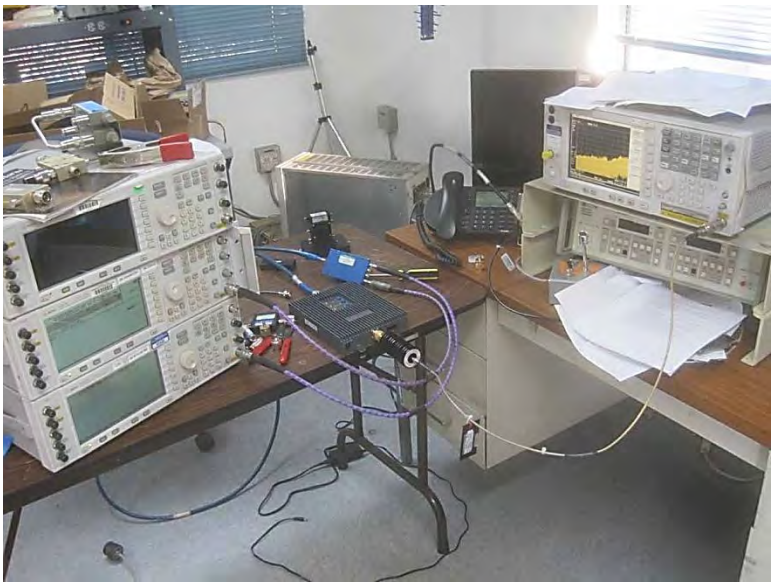


DL - 1930-1990, Intermodulation



DL - 2110-2155, Intermodulation

Test Setup Photo(s)



Clause 7.5 Out of Band Emissions

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea CA 92823 • 714-993-6112

Customer:	**Cellphone-Mate, Inc.**		
Specification:	**7.5 Out of Band Emissions**		
Work Order #:	**95353**	Date:	2/14/2014
Test Type:	**Conducted Emissions**	Time:	08:53:16
Equipment:	**Mobile Wideband Consumer Signal Booster**	Sequence#:	10
Manufacturer:	Cellphone-Mate, Inc.	Tested By:	Don Nguyen
Model:	TriFlex-2Go-T		120V 60Hz
S/N:	NA		

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015
T2	AN02672	Spectrum Analyzer	E4446A	9/4/2012	9/4/2014
T3	C000080	Attenuator	33-20-34	6/10/2013	6/10/2015

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster*	Cellphone-Mate, Inc.	TriFlex-2Go-T	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4433B	US40052164
Power Supply	SureCall	GFP451DA-0945-1	1308-0000325

Test Conditions / Notes:

The equipment under test (EUT) is placed on the table top. EUT set at maximum gain. Signal generator is connected to input port of EUT. Output port of EUT is connected to spectrum analyzer via 20db attenuator and RF cable. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port. EUT is powered by 9V power supply.

UL 824-849
DL 869-894

UL 1850-1910
DL 1930-1990

UL 1710-1755
DL 2110-2155

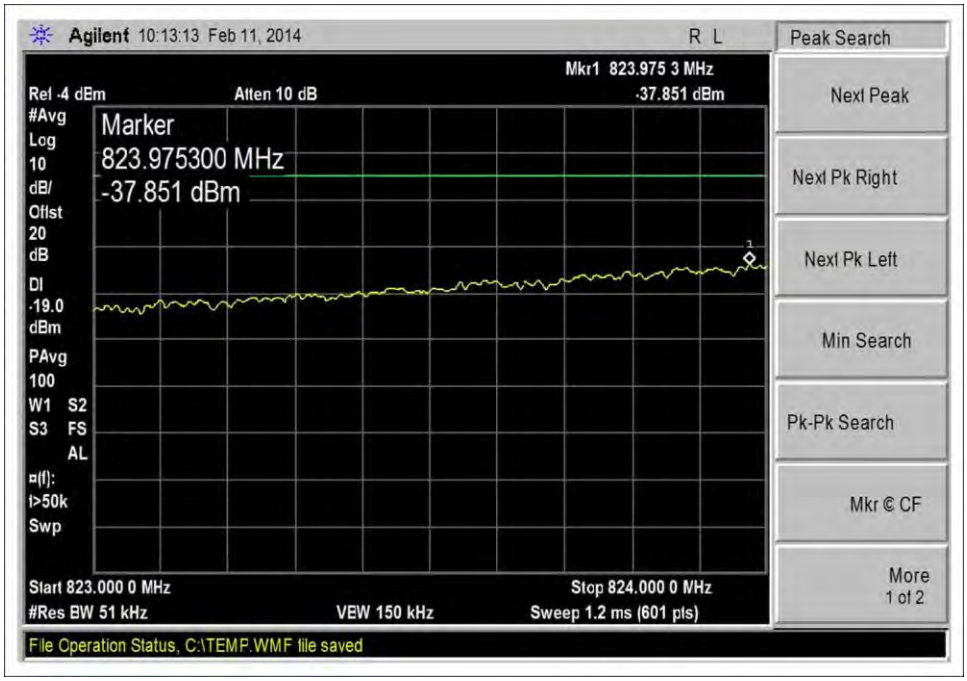
Test procedure: The test was performed in accordance with section 7.5 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 22, 2014
Temperature: 19°C, Humidity: 36%, Pressure: 100.1kPa

Site D

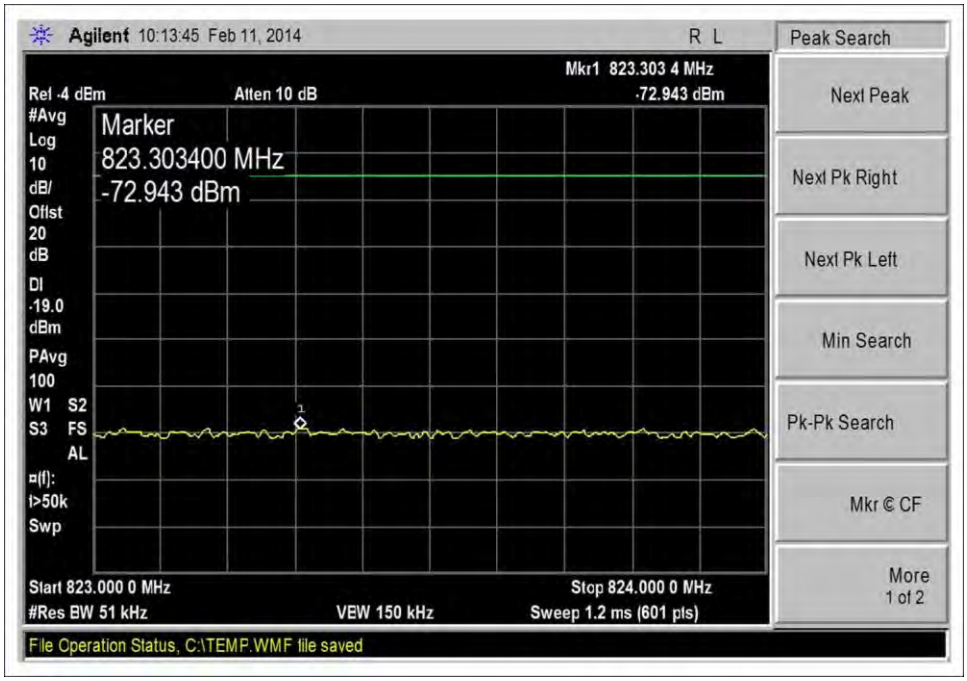
Summary of Results

Pass: As indicated in plots below, all OBE are under the limit of -19dBm.

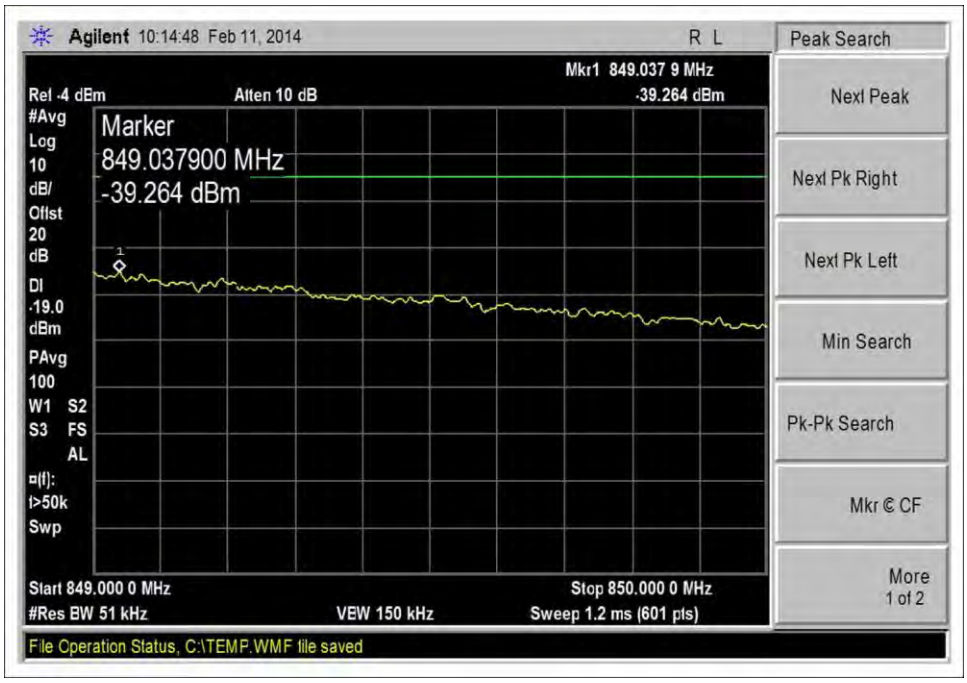
Test Data



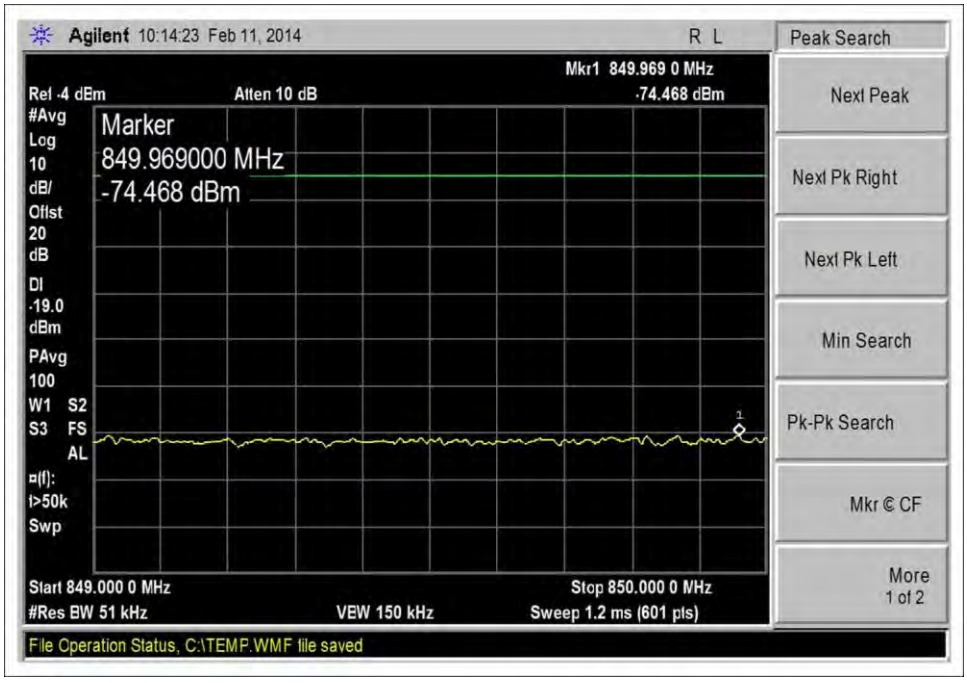
UL - 824-849 Low Channel, CDMA pre AGC



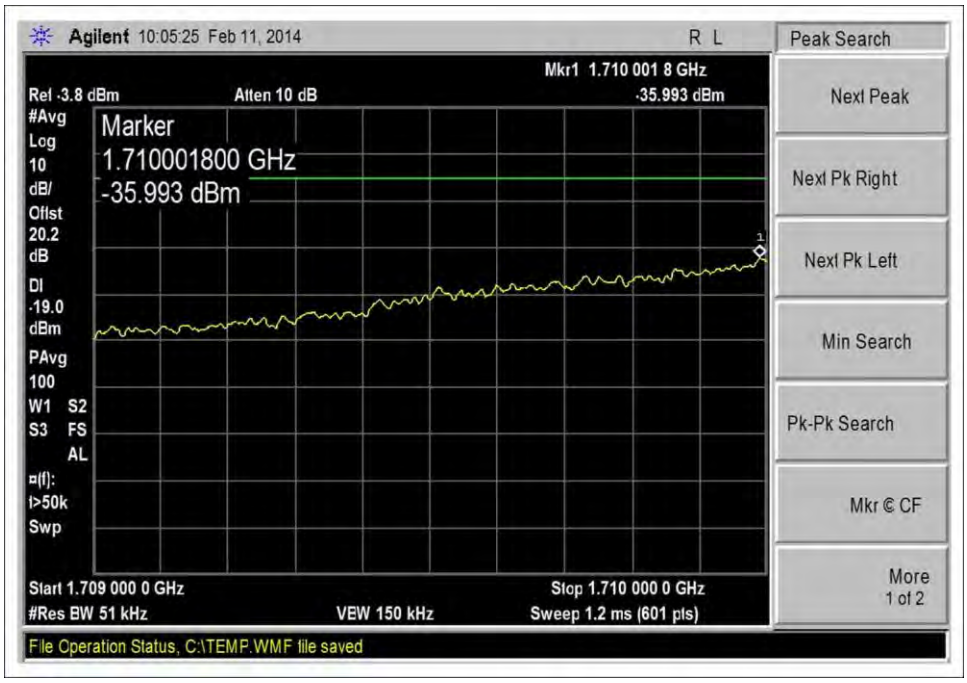
UL - 824-849 Low Channel, CDMA 10dbm



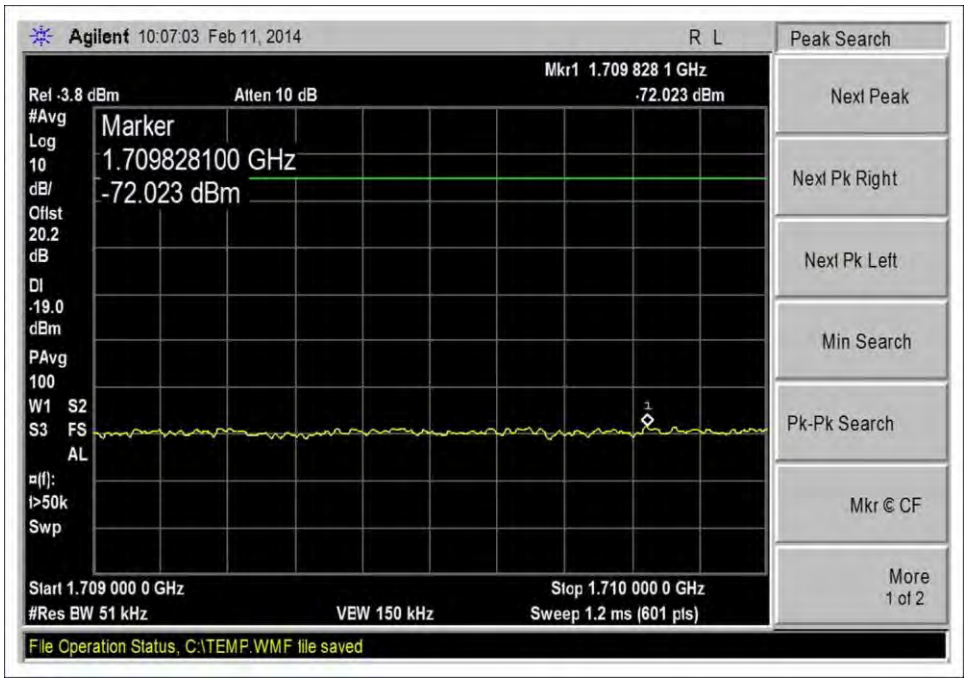
UL - 824-849 High Channel, CDMA pre AGC



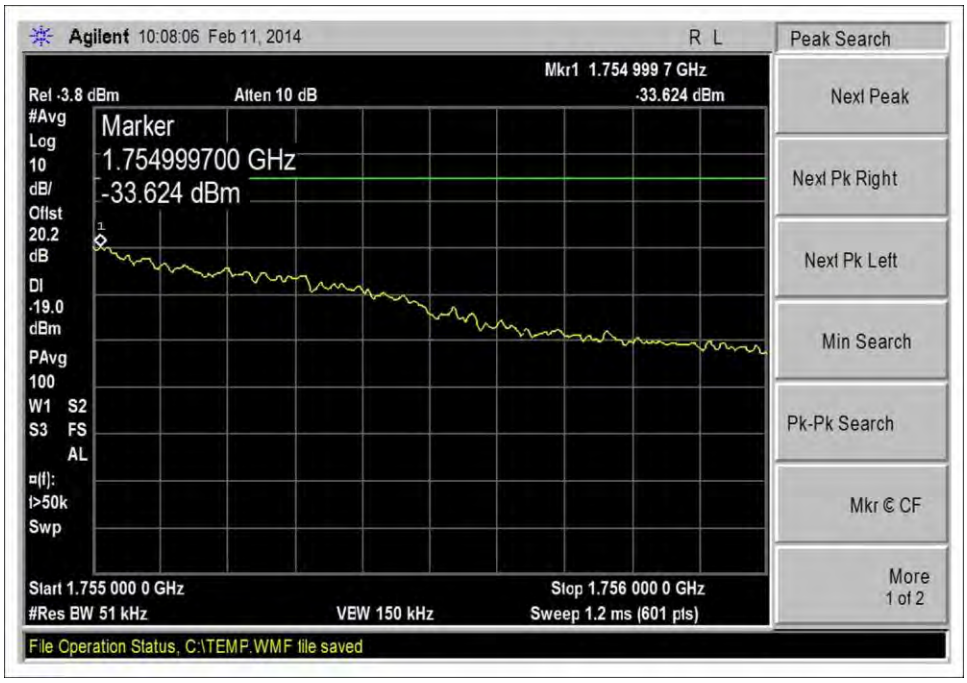
UL - 824-849 High Channel, CDMA 10dbm



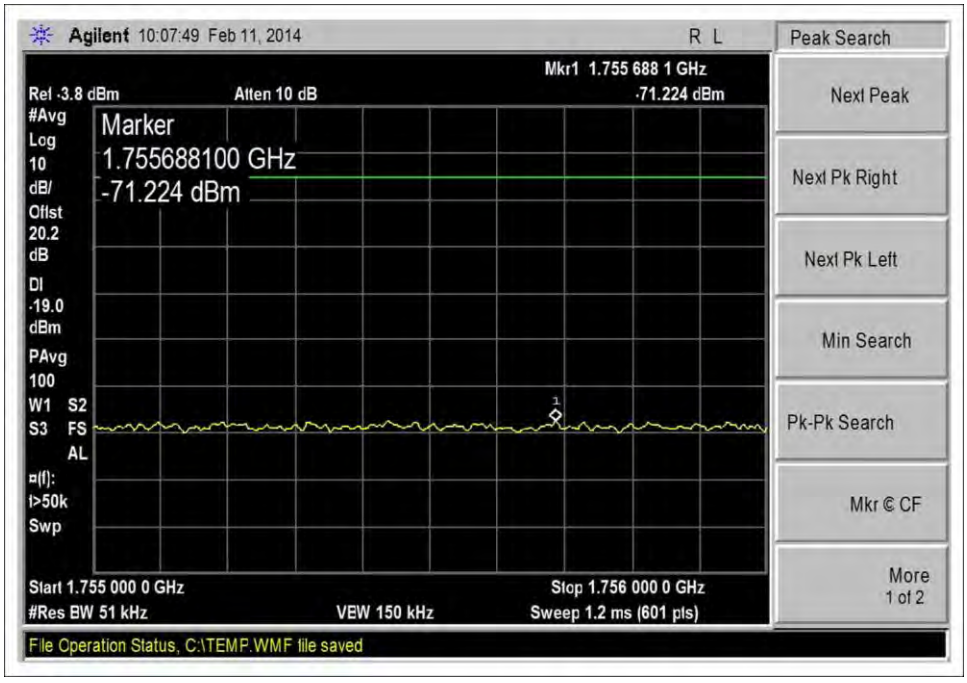
UL - 1710-1755 Low Channel, CDMA pre AGC



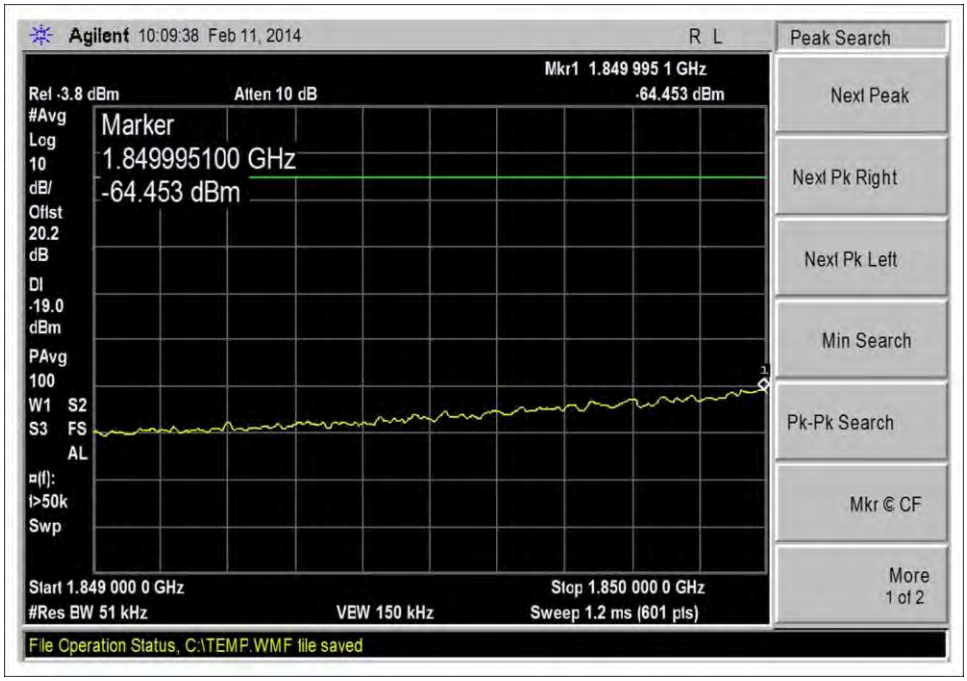
UL - 1710-1755 Low Channel, CDMA 10dbm



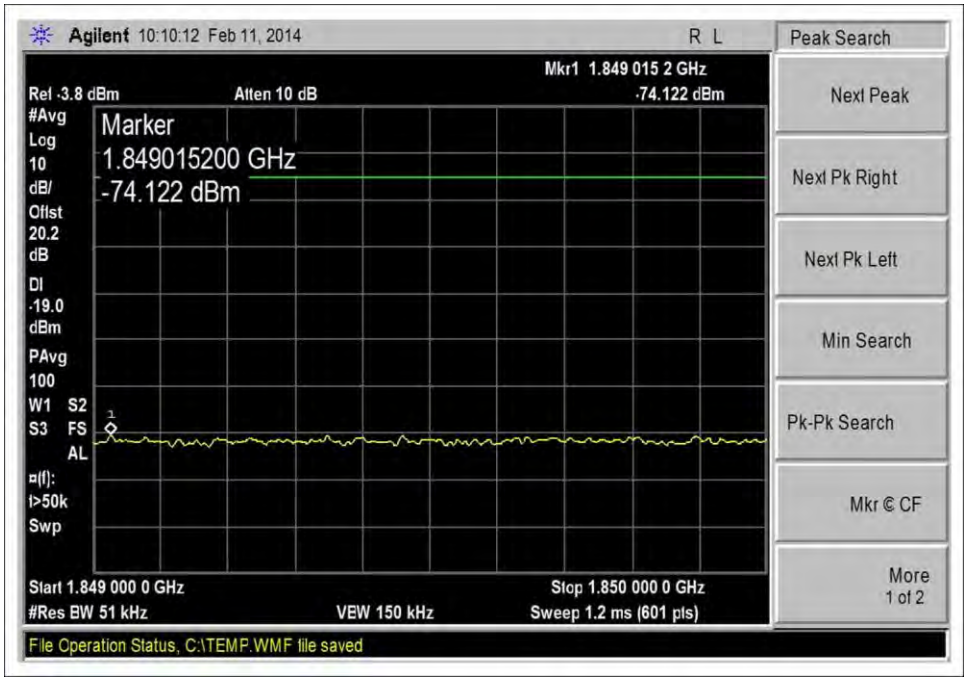
UL - 1710-1755 High Channel, CDMA pre AGC



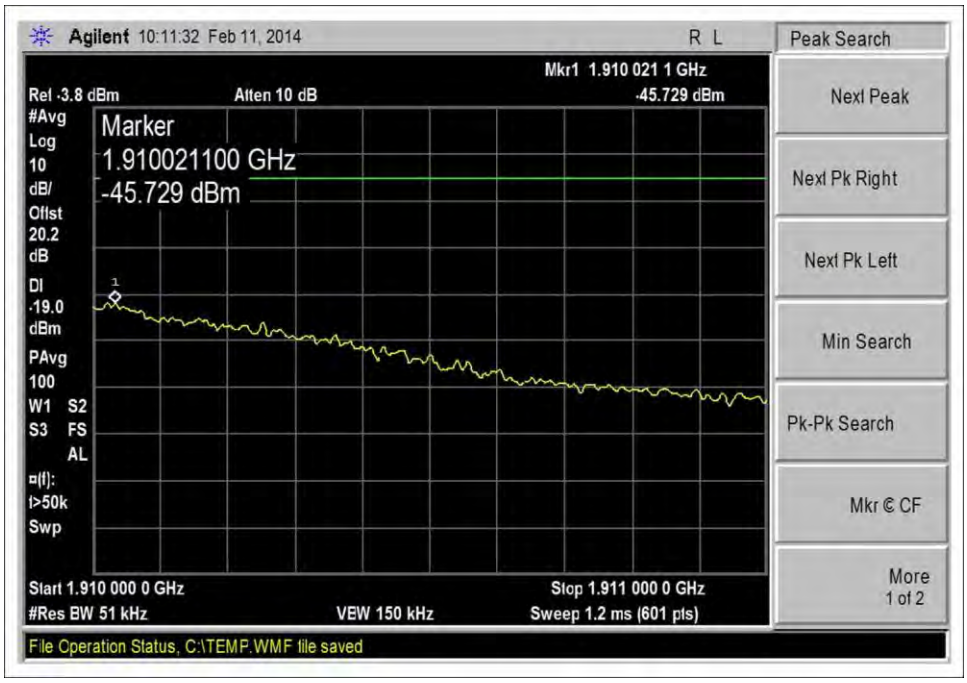
UL - 1710-1755 High Channel, CDMA 10dbm



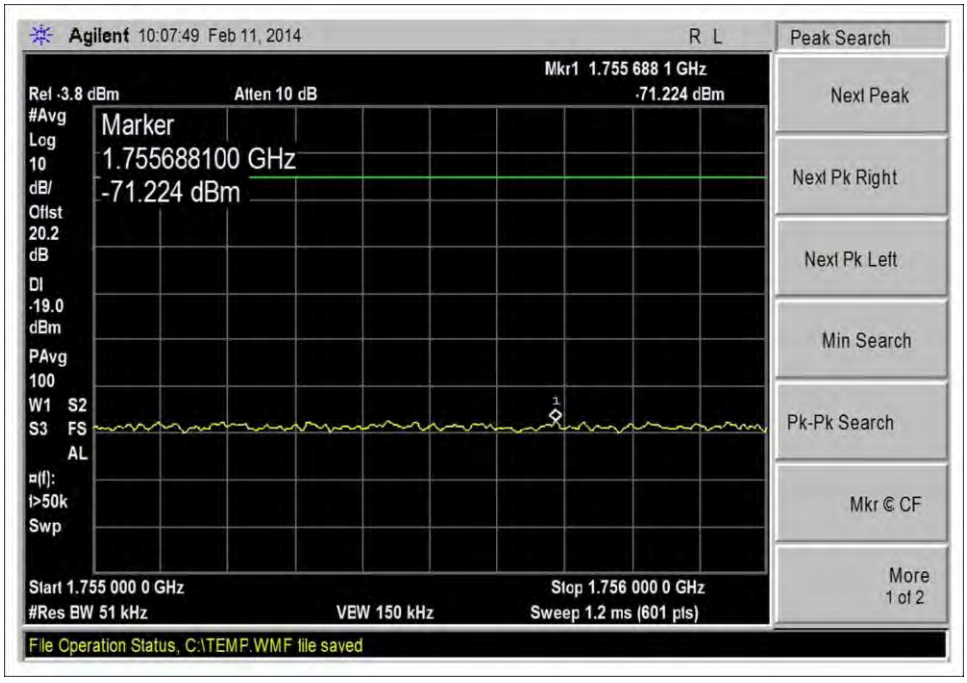
UL - 1850-1910 Low Channel, CDMA pre AGC



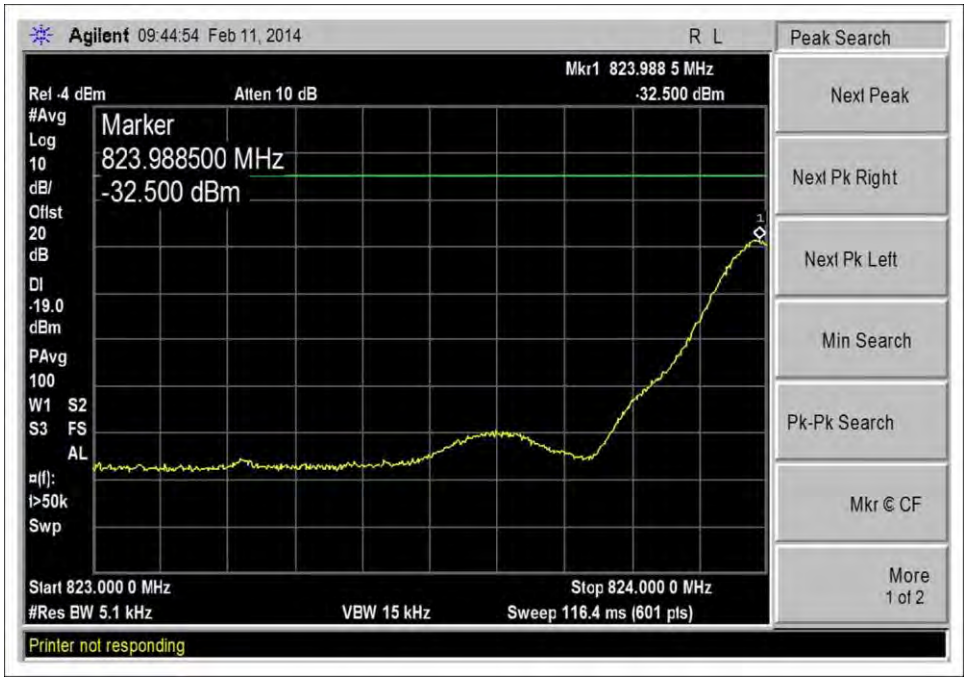
UL - 1850-1910 Low Channel, CDMA 10dbm



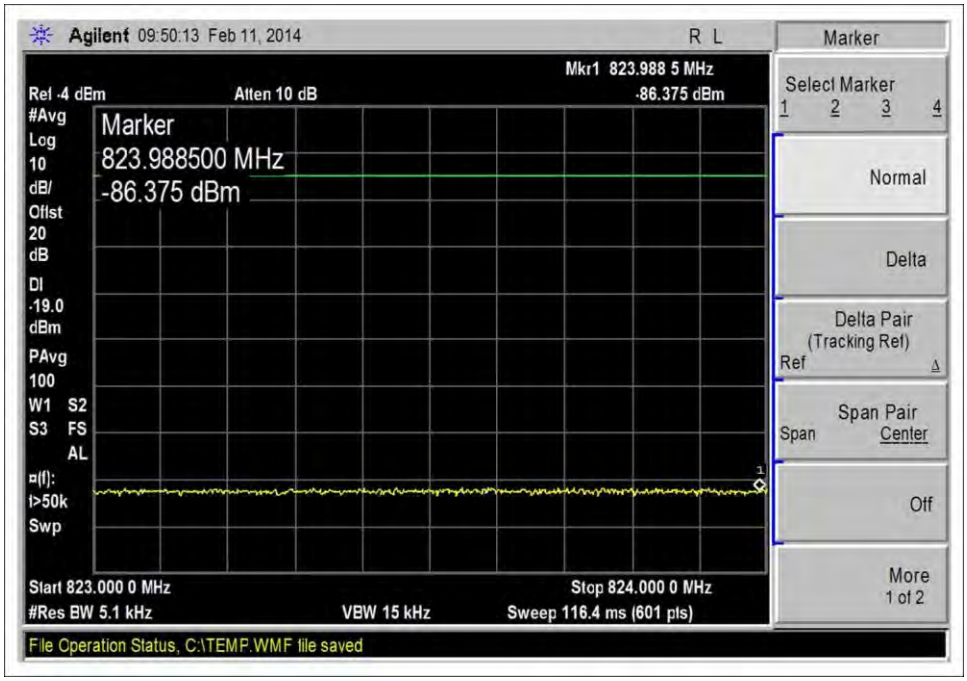
UL - 1850-1910 High Channel, CDMA pre AGC



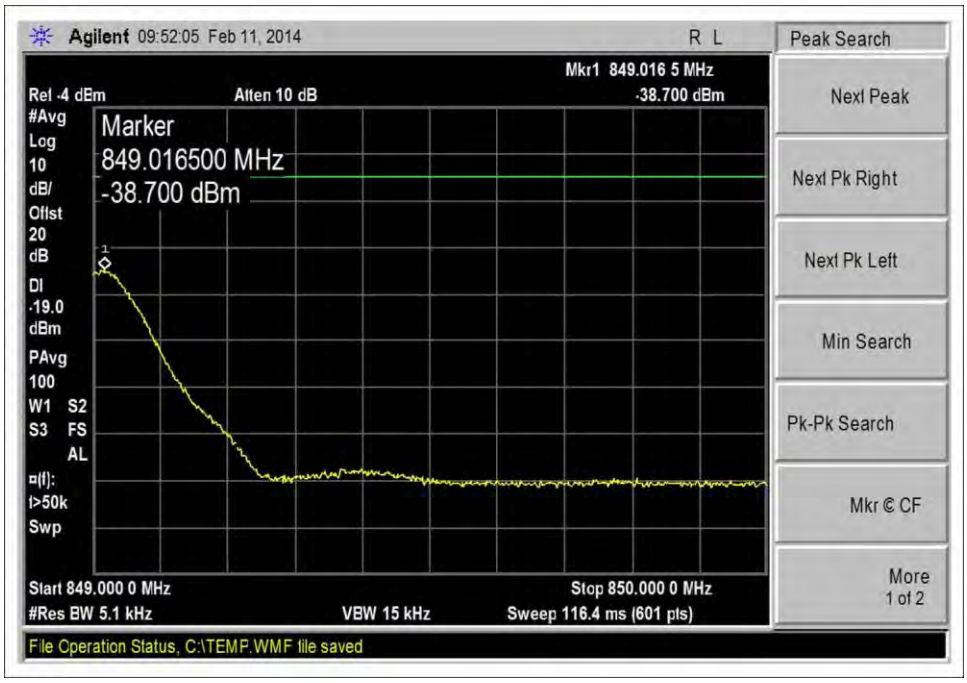
UL - 1850-1910 High Channel, CDMA 10dbm



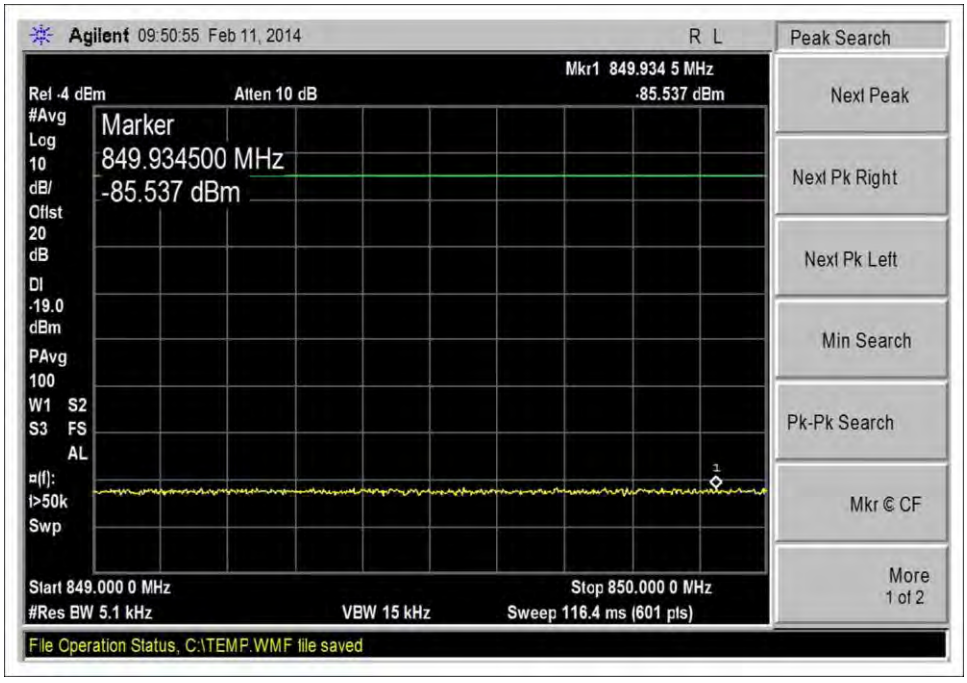
UL- 824-849 Low Channel, GSM pre AGC



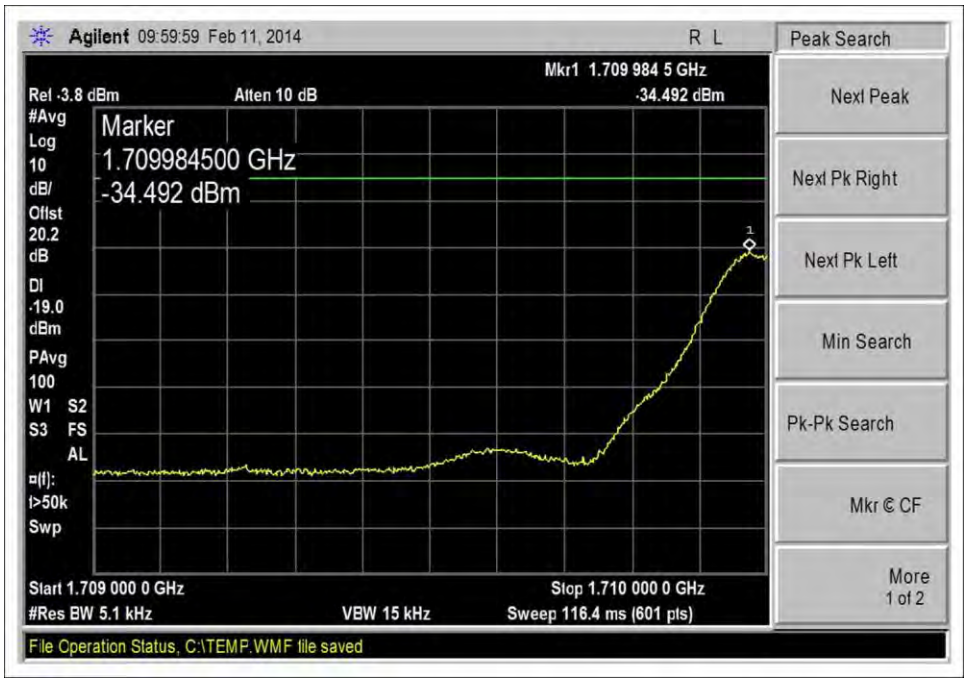
UL - 824-849 Low Channel, GSM 10dbm



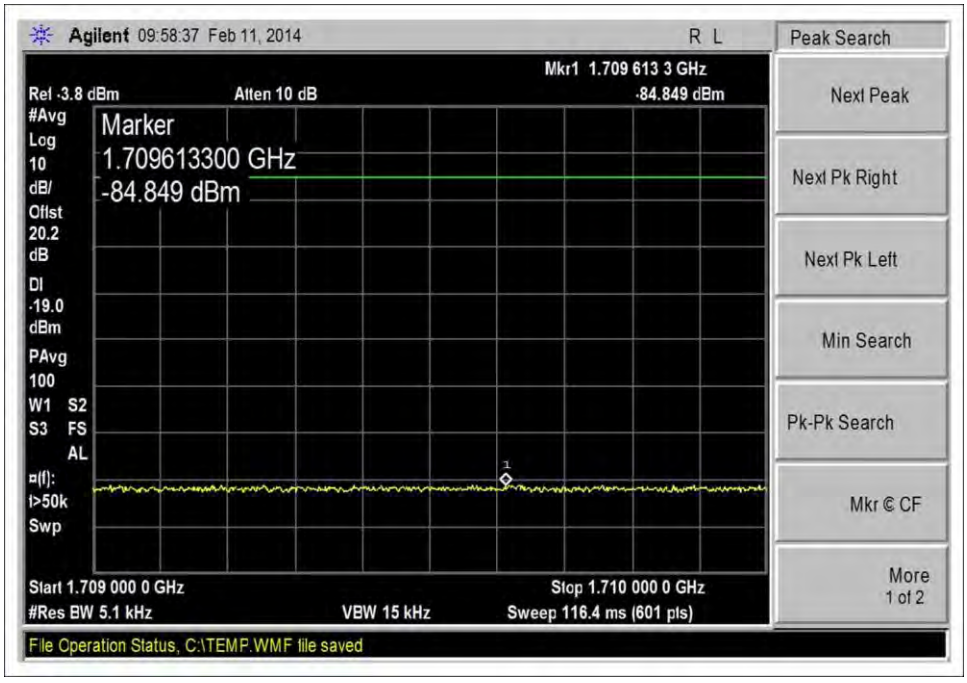
UL - 824-849 High Channel, GSM pre AGC



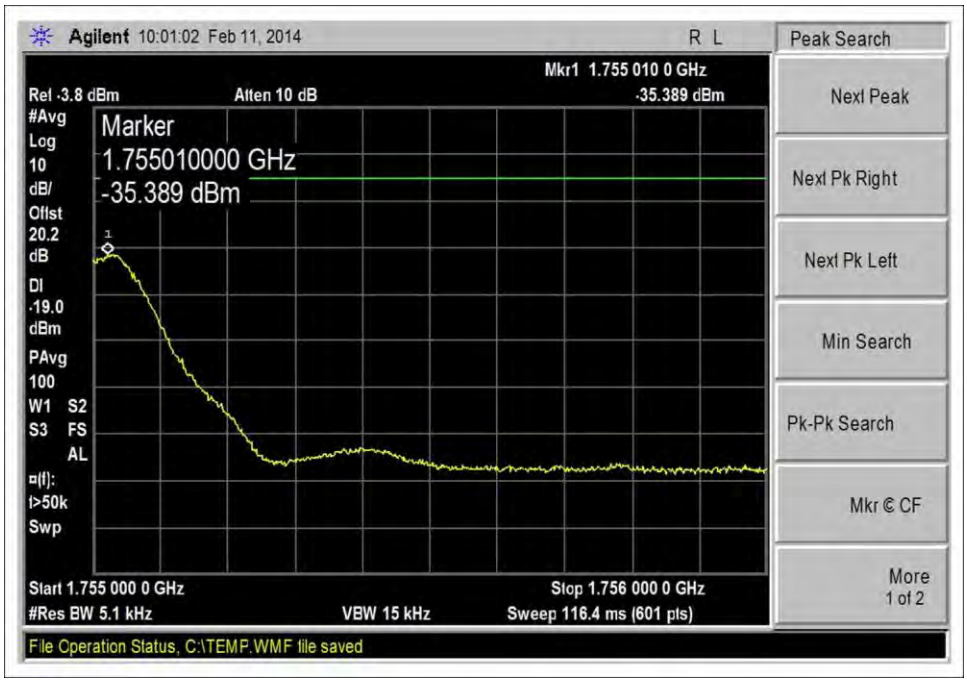
UL - 824-849 High Channel, GSM 10dbm



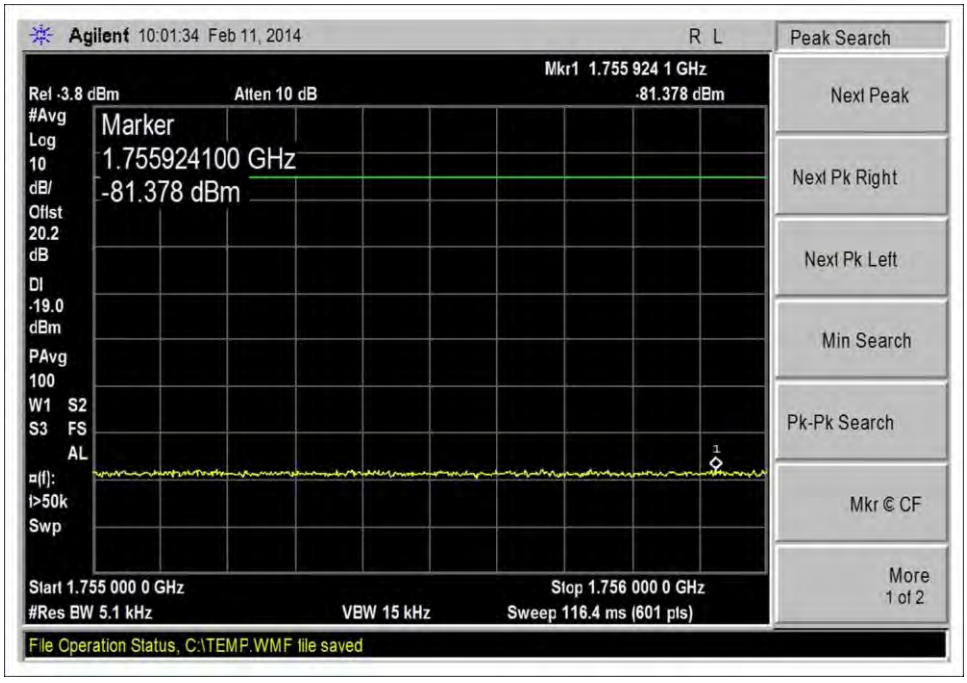
UL - 1710-1755 Low Channel, GSM pre AGC



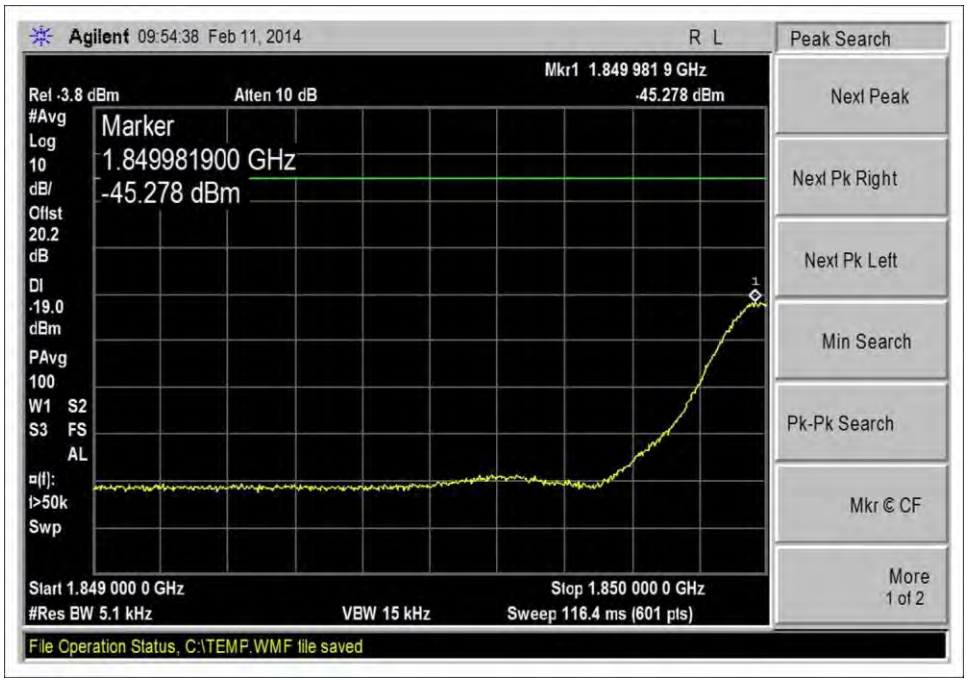
UL - 1710-1755 Low Channel, GSM 10db



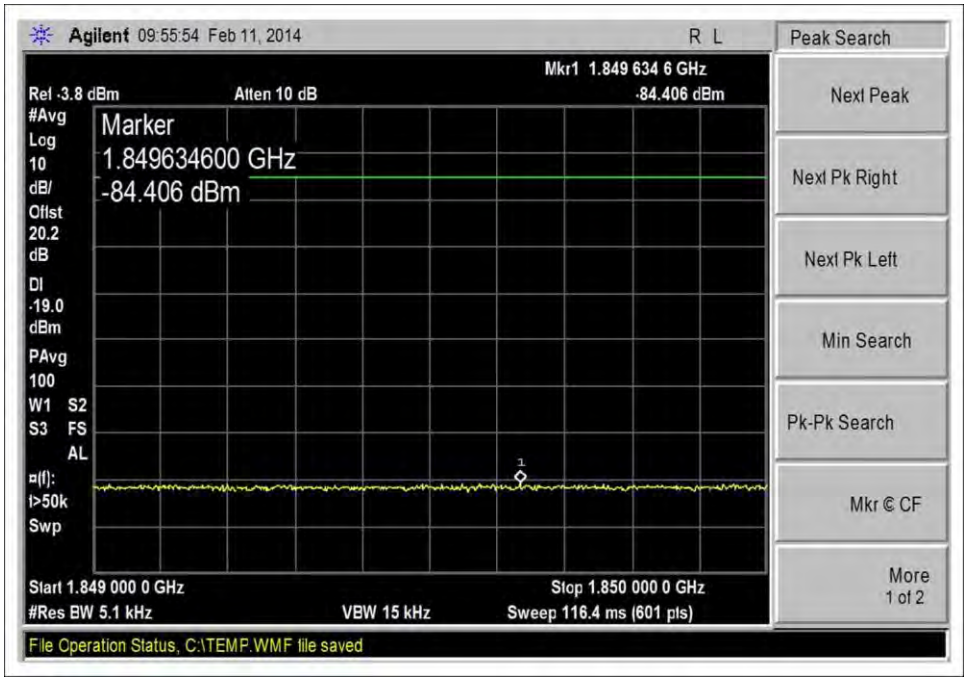
UL - 1710-1755 High Channel, GSM pre AGC



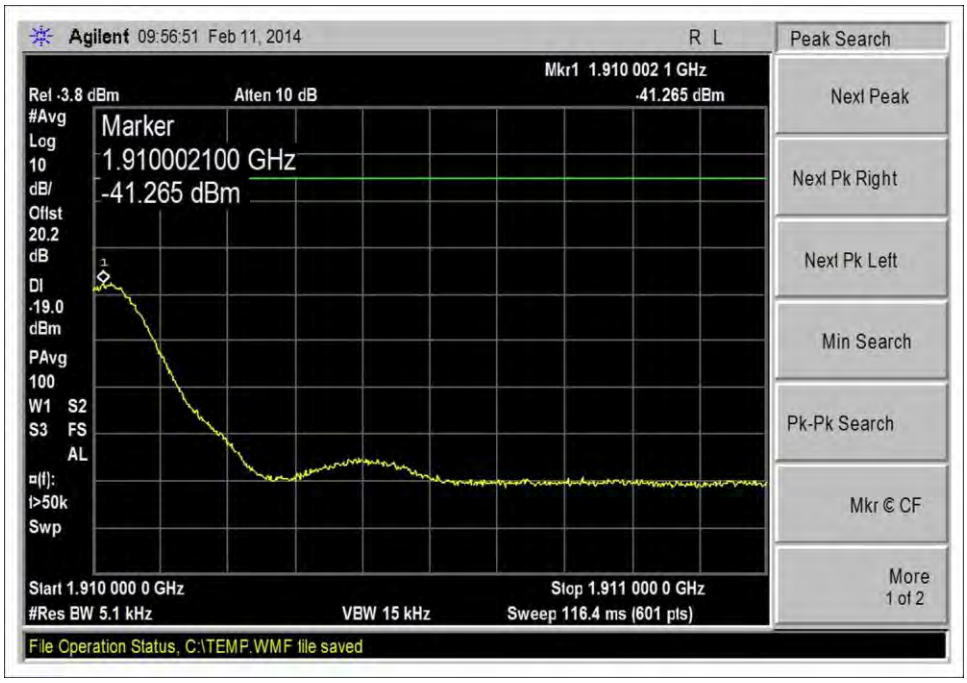
UL - 1710-1755 High Channel, GSM 10db



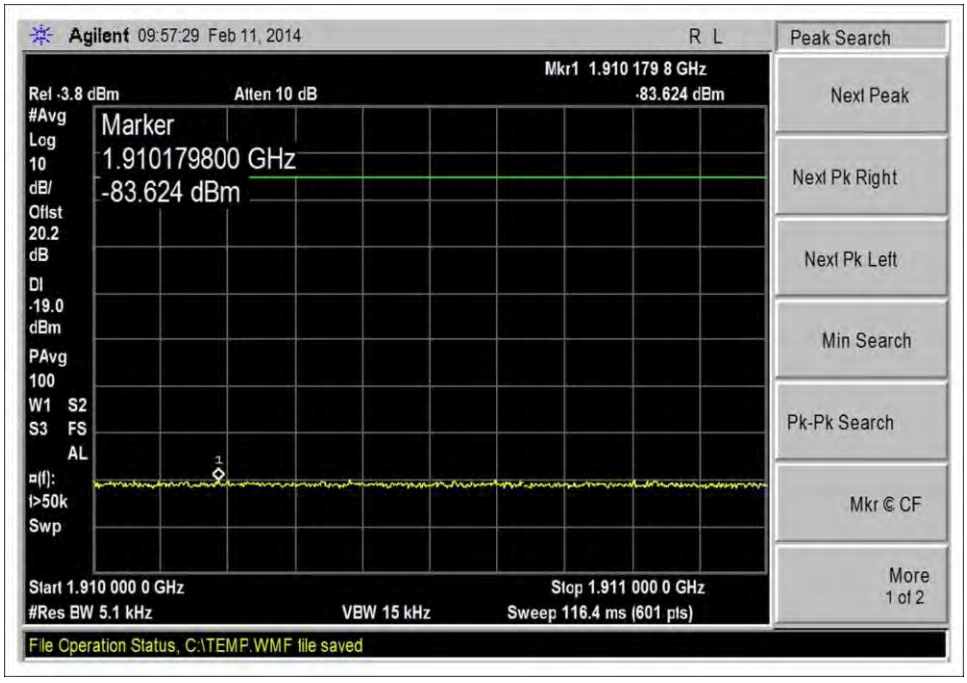
UL - 1850-1910, Low Channel, GSM pre AGC



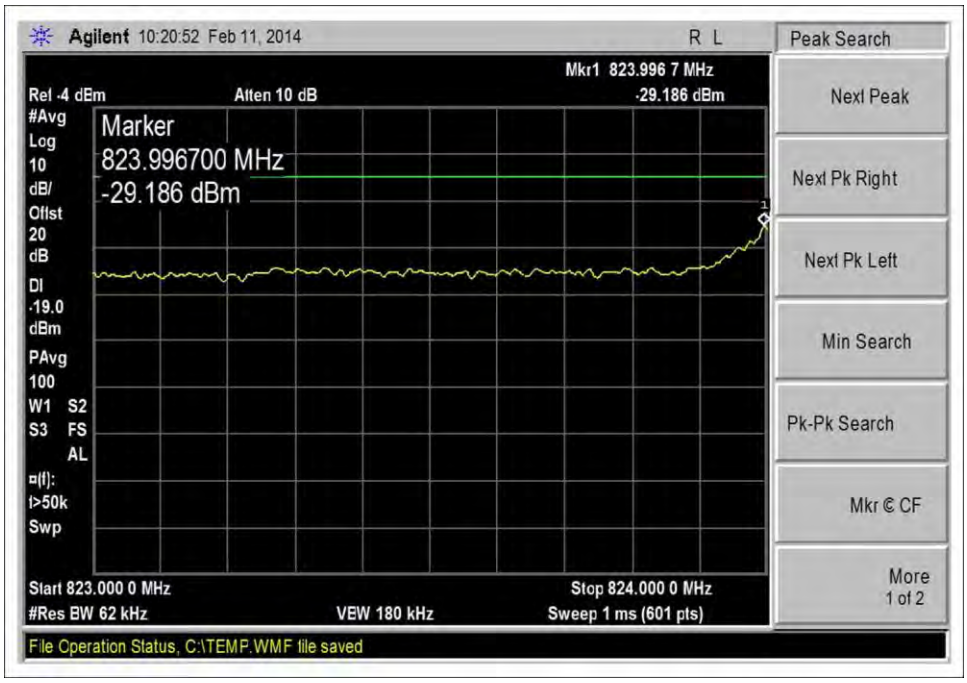
UL - 1850-1910, Low Channel, GSM 10dbm



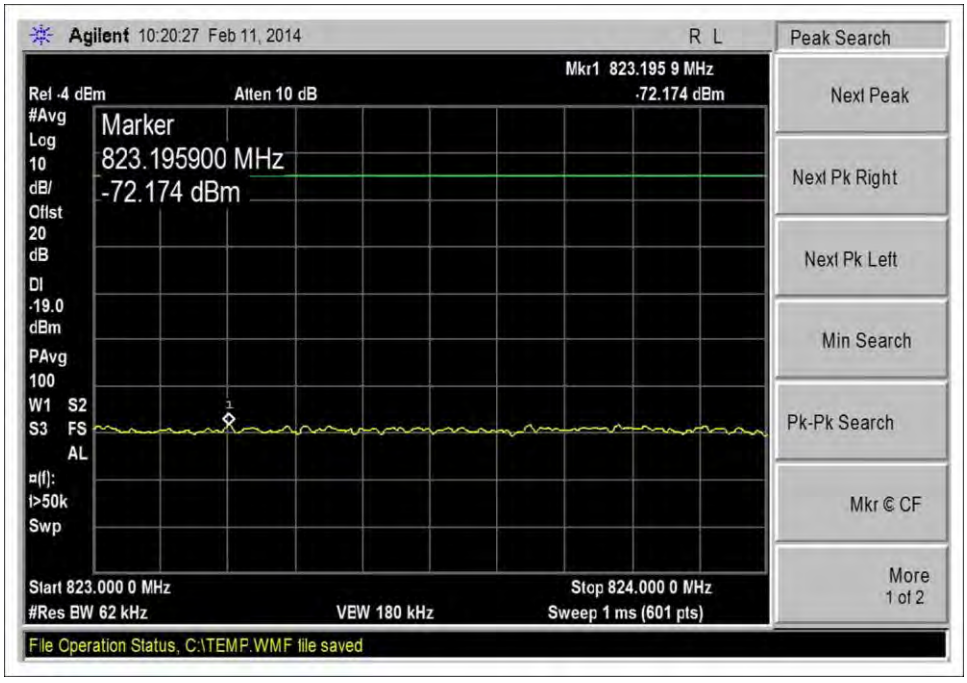
UL - 1850-1910 High Channel, GSM pre AGC



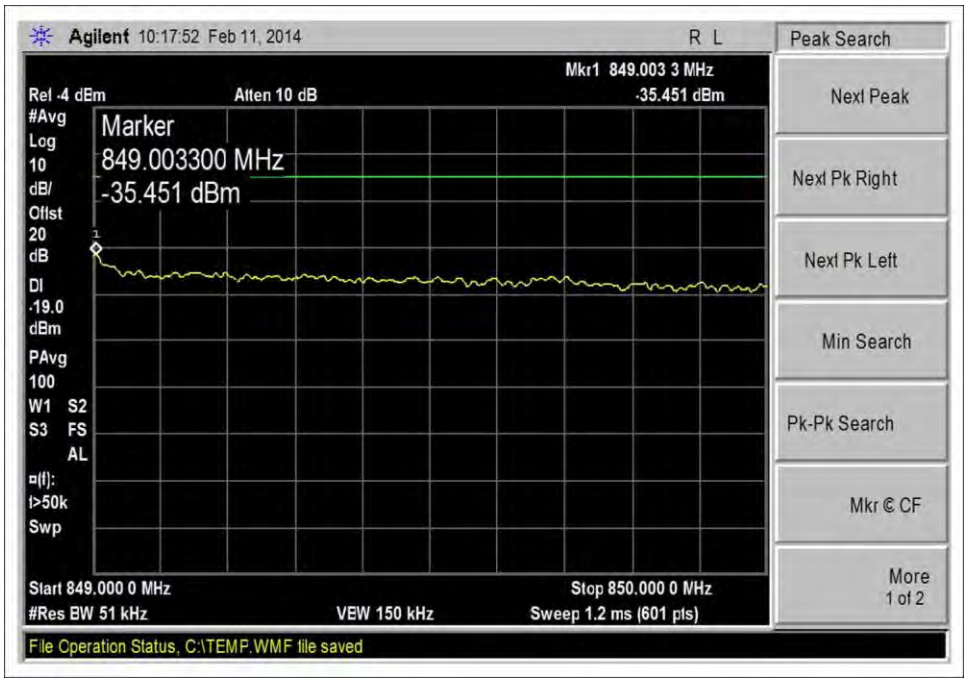
UL - 1850-1910 High Channel, GSM 10dbm



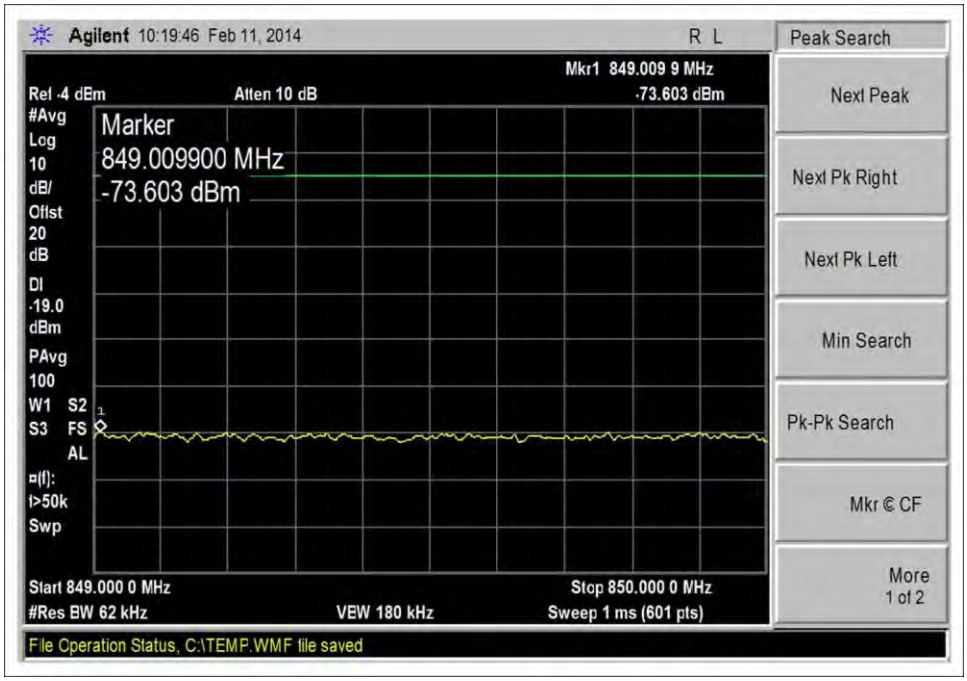
UL - 824-849 Low Channel, LTE pre AGC



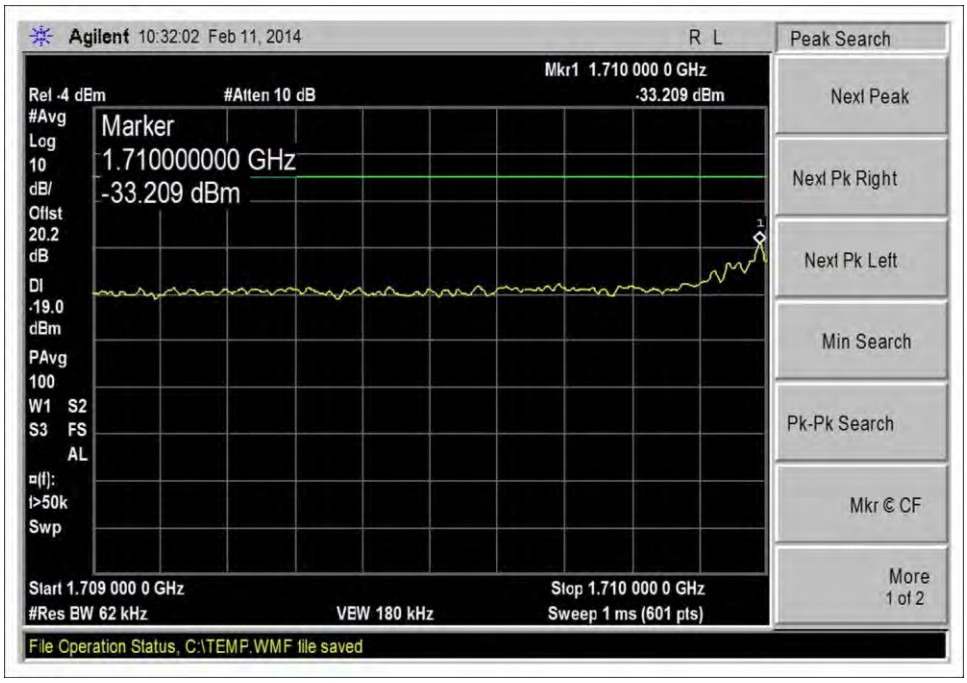
UL - 824-849 Low Channel, LTE 10dbm



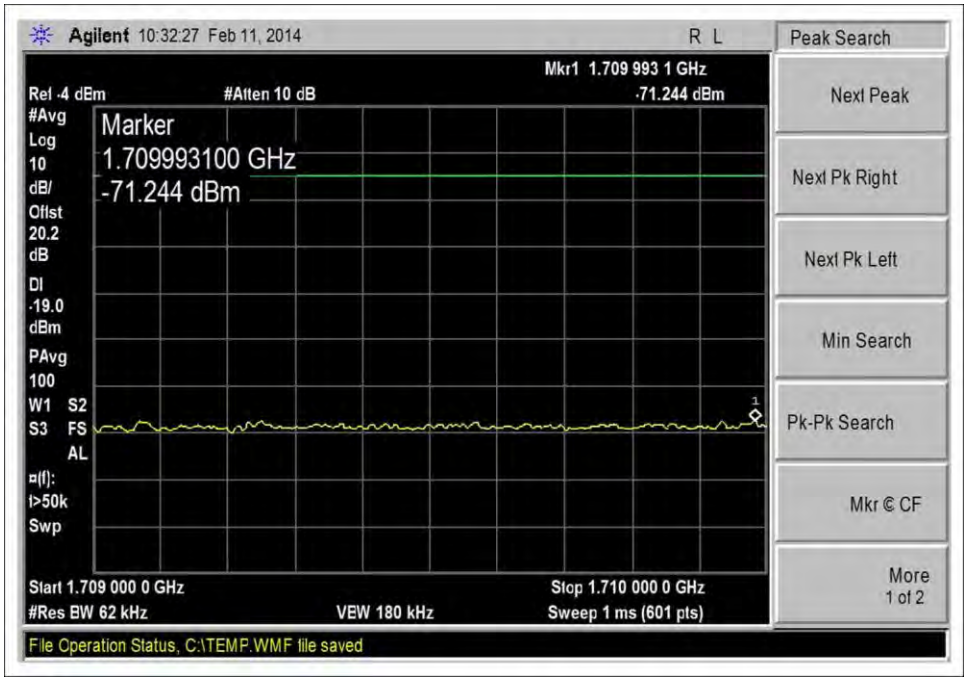
UL - 824-849 High Channel, LTE pre AGC



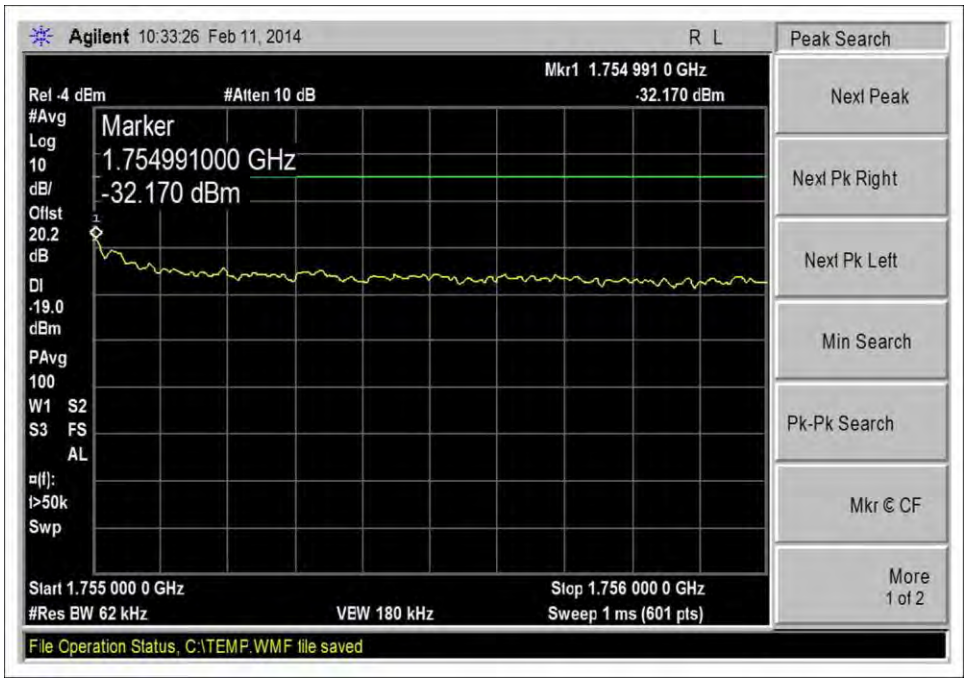
UL - 824-849 High Channel, LTE 10dbm



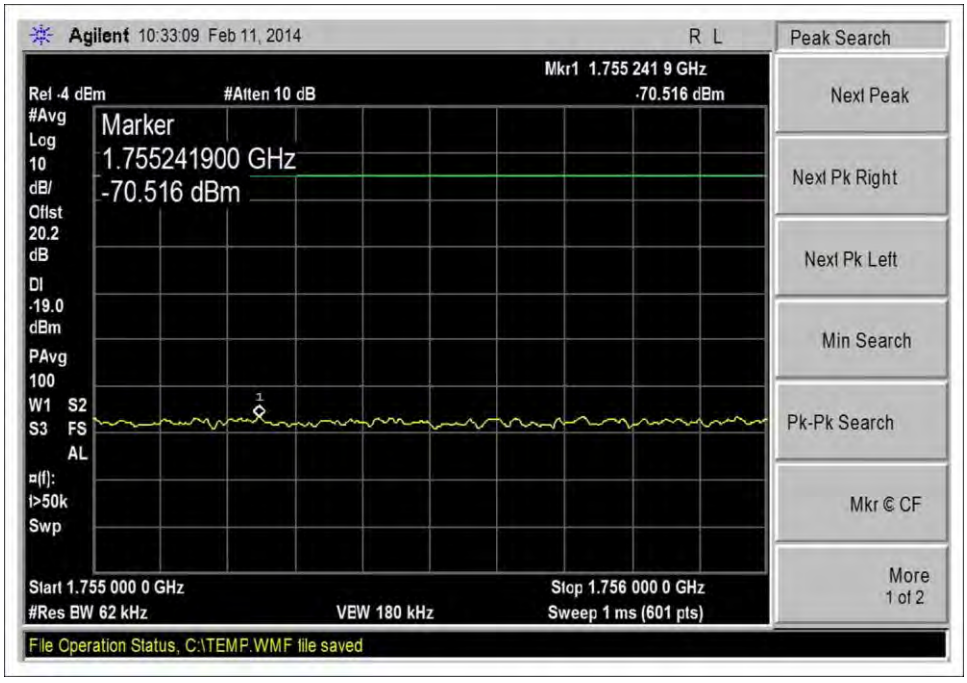
UL -1710-1755 Low Channel, LTE pre AGC



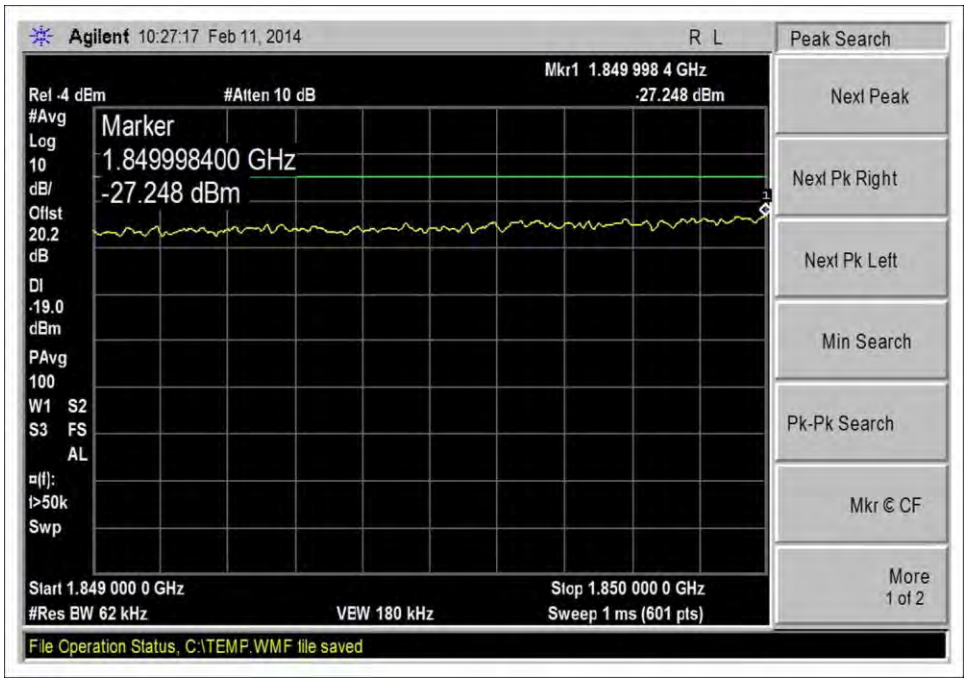
UL - 1710-1755 Low Channel, LTE 10dbm



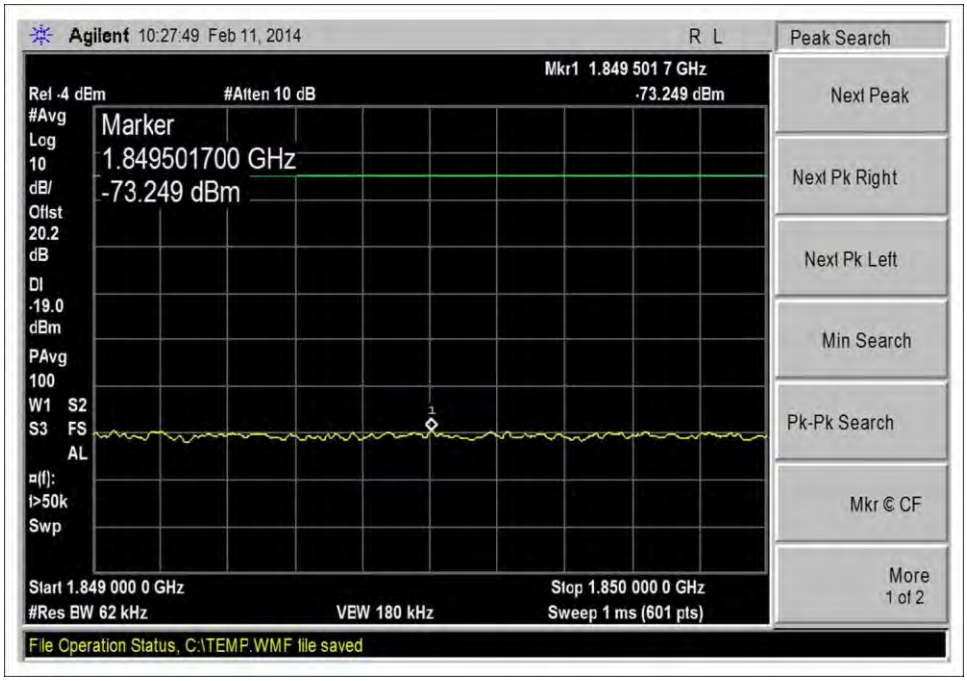
UL - 1710-1755 High Channel, LTE pre AGC



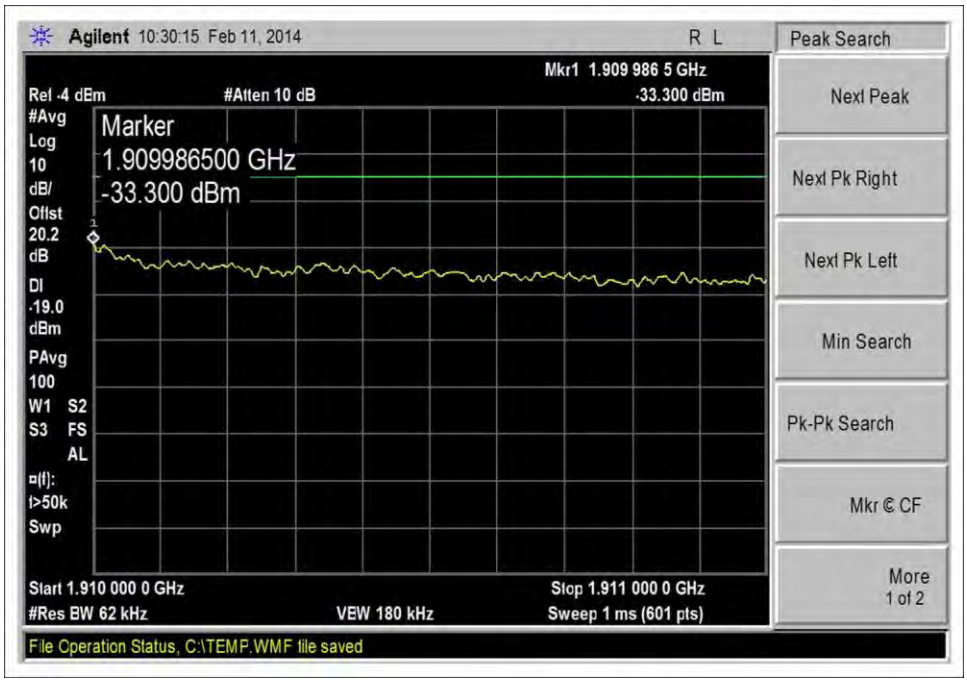
UL - 1710-1755 High Channel, LTE 10dbm



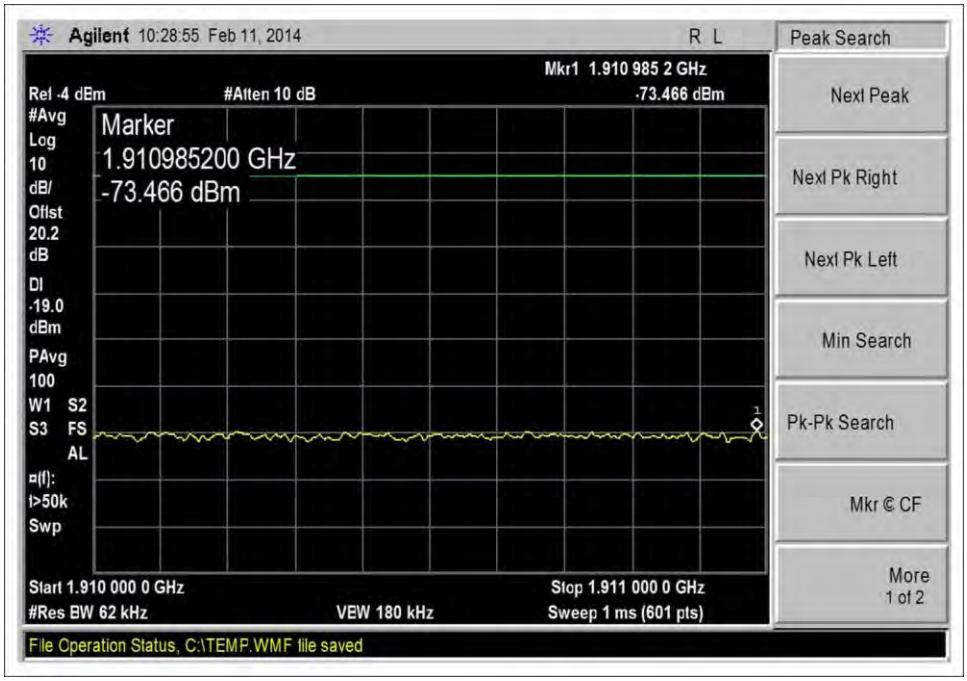
UL - 1850-1910 Low Channel, LTE pre AGC



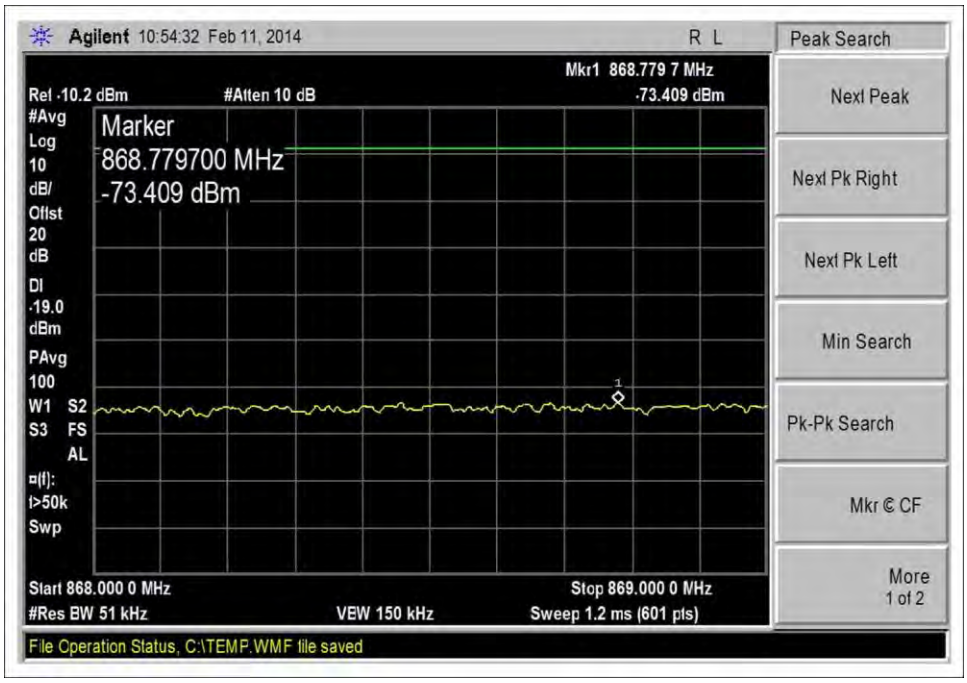
UL - 1850-1910 Low Channel, LTE 10dbm



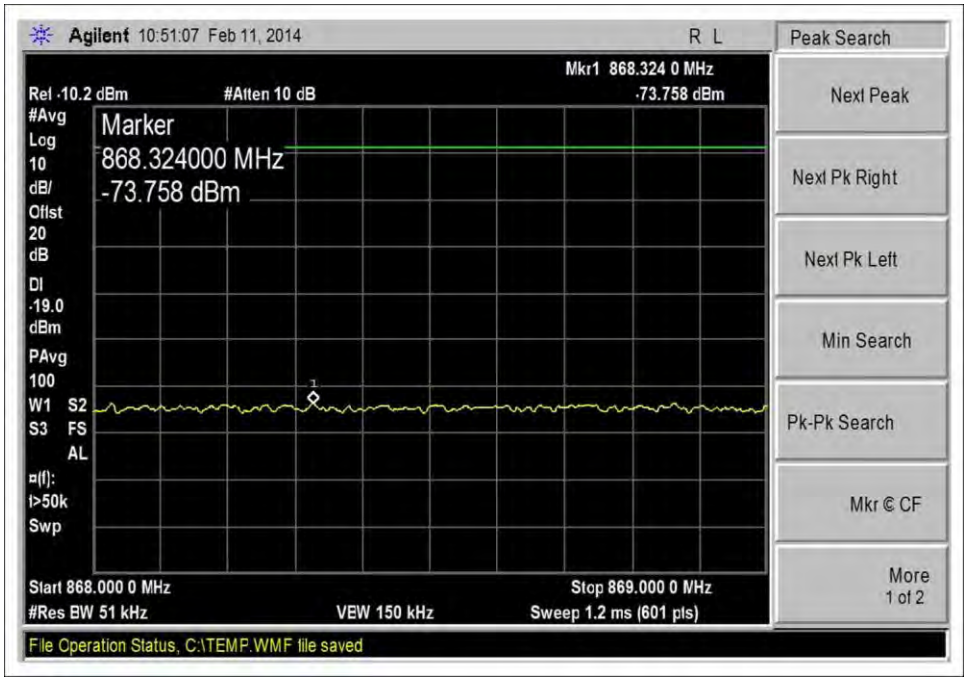
UL - 1850-1910 High Channel, LTE pre AGC



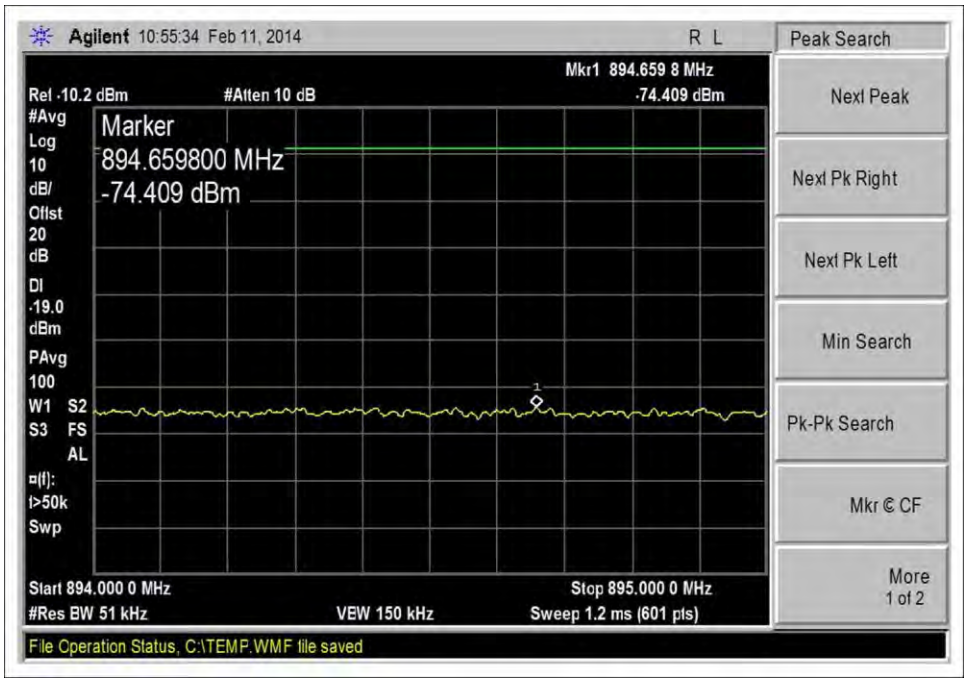
UL - 1850-1910 High Channel, LTE 10dbm



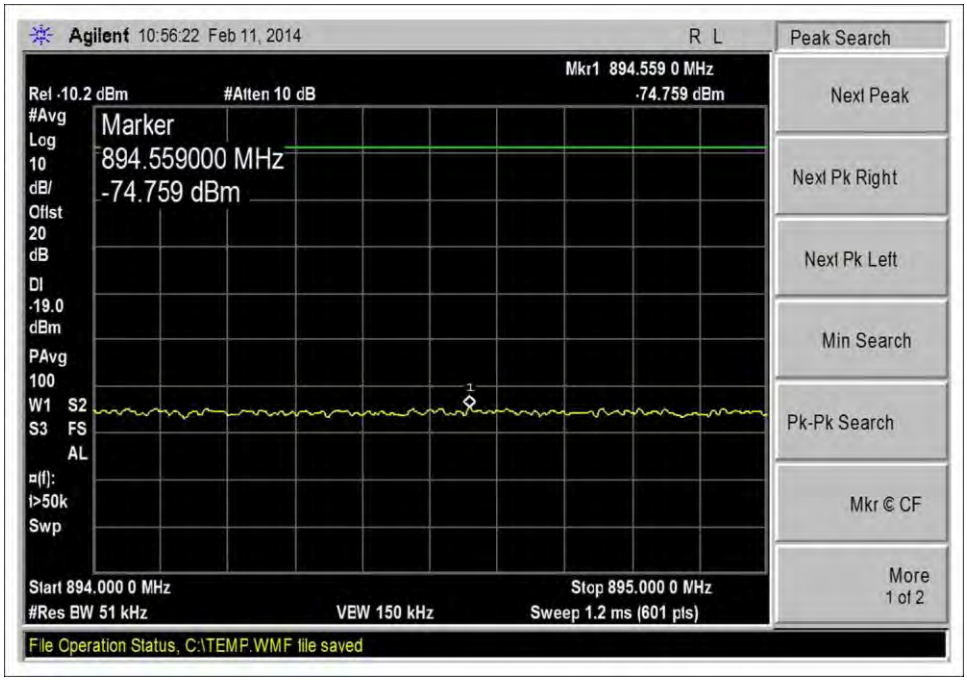
DL - 869-894 Low Channel, CDMA pre AGC



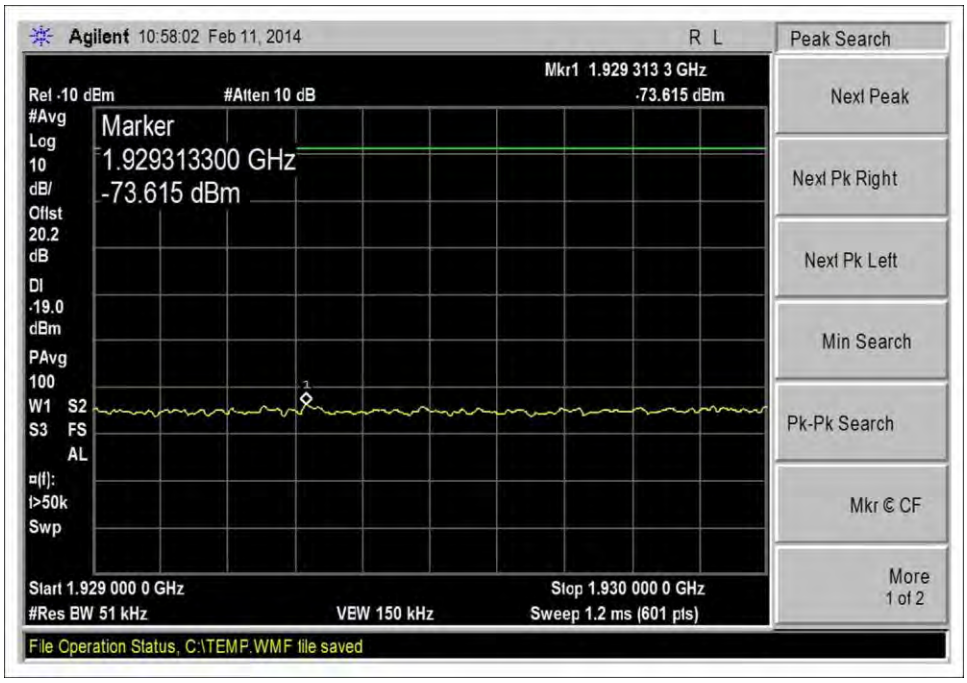
DL- 869-894 Low Channel, CDMA -20dbm



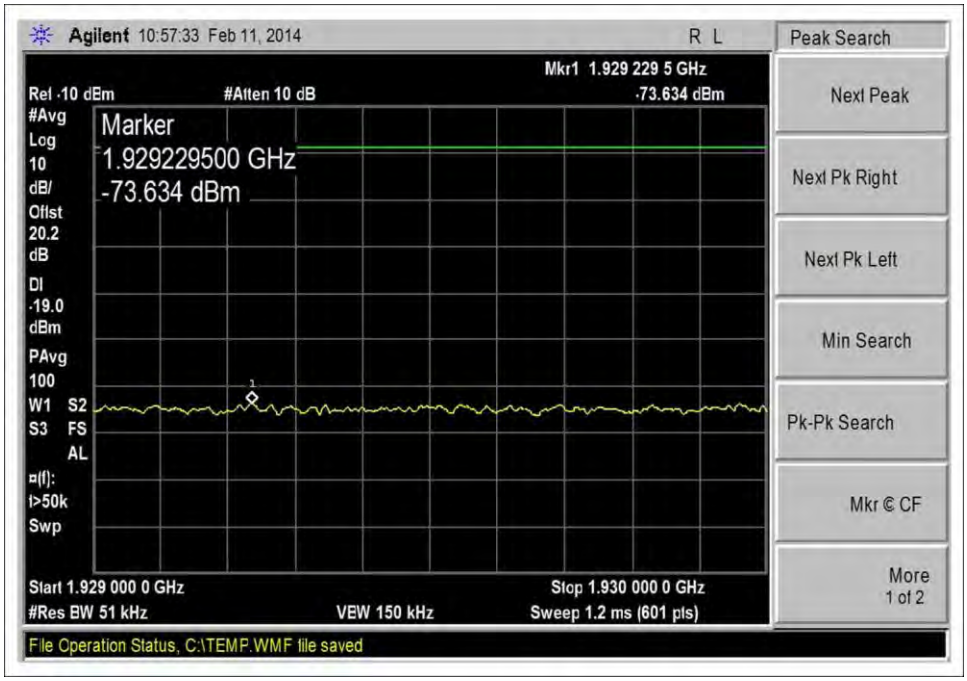
DL - 869-894 High Channel, CDMA pre AGC



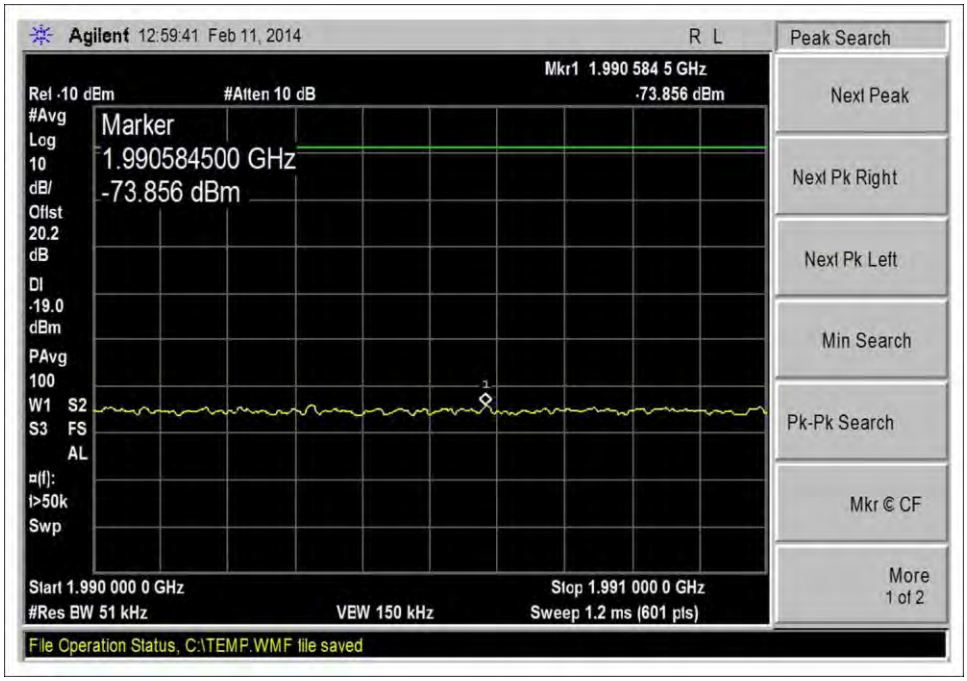
DL -869-894 High Channel, CDMA -20dbm



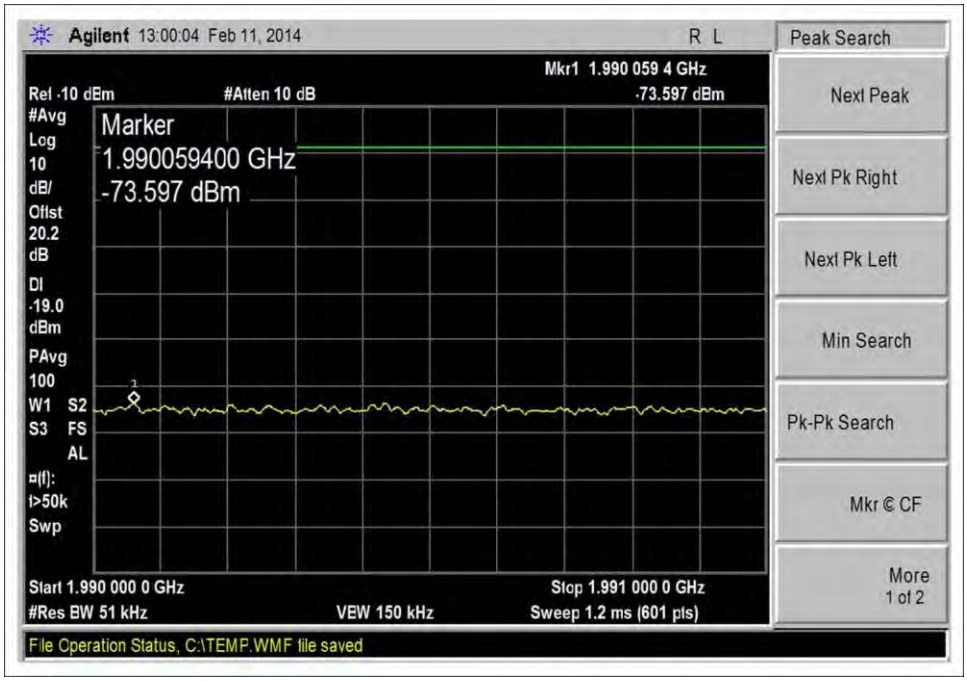
DL - 1930-1990 Low Channel, CDMA pre AGC



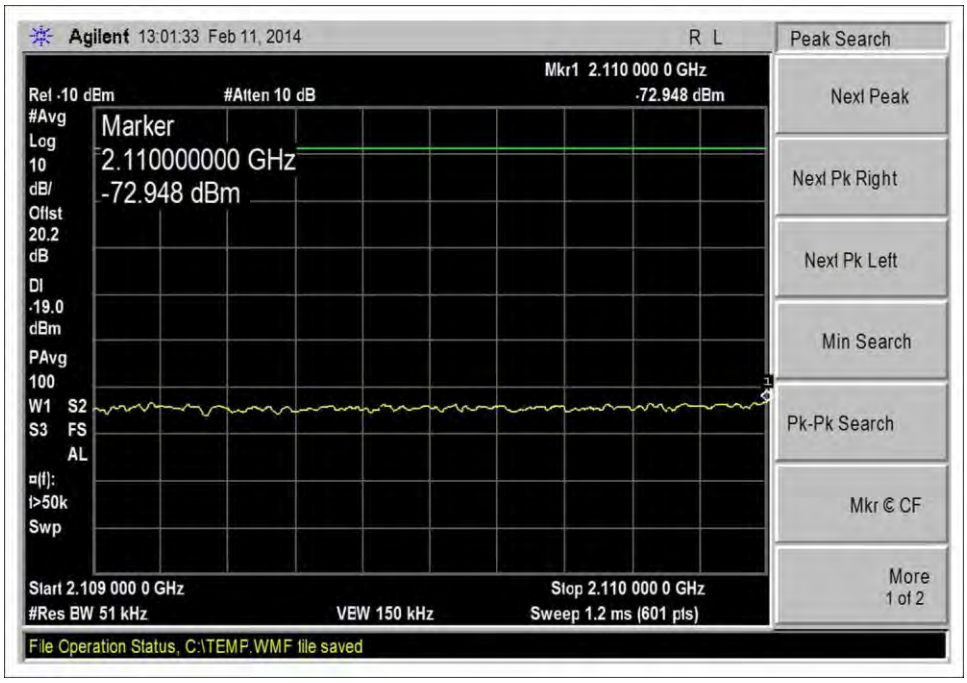
DL - 1930-1990 Low Channel, CDMA -20dbm



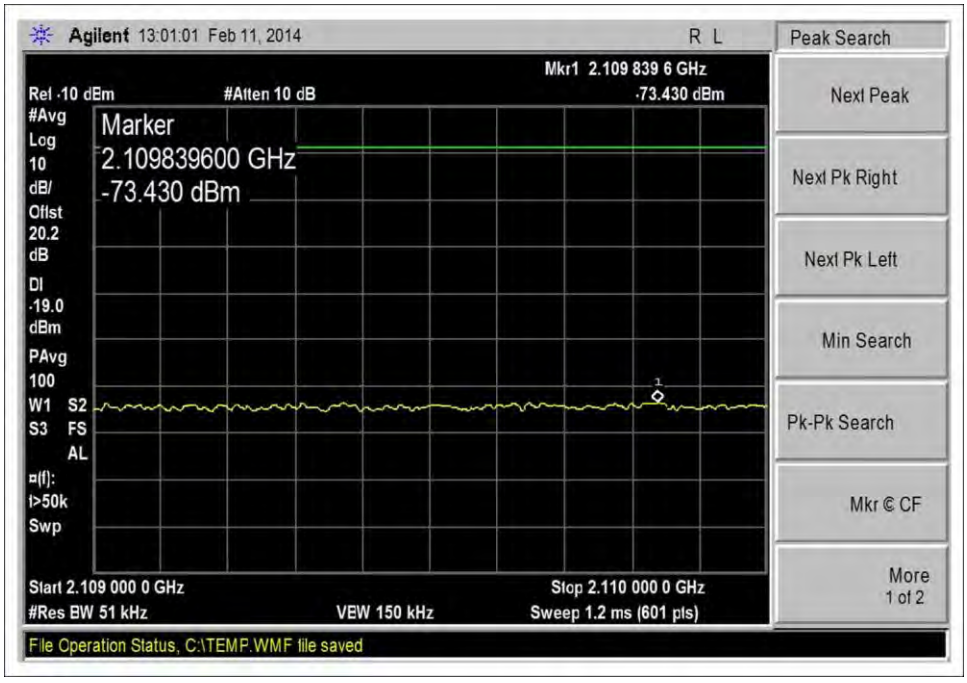
DL - 1930-1990 High Channel, CDMA pre AGC



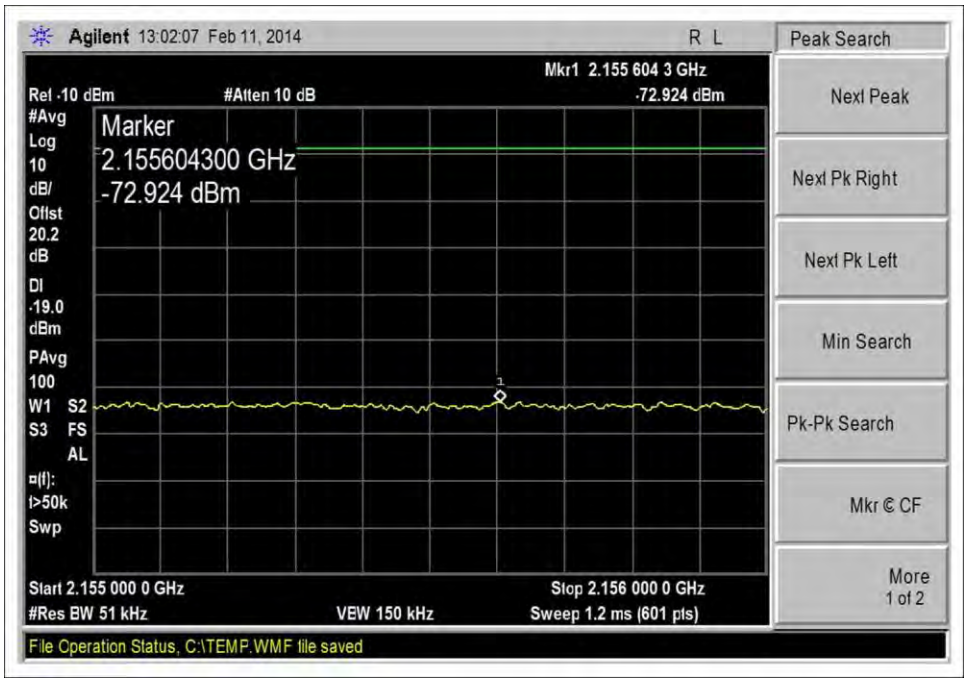
DL - 1930-1990 High Channel, CDMA -20dbm



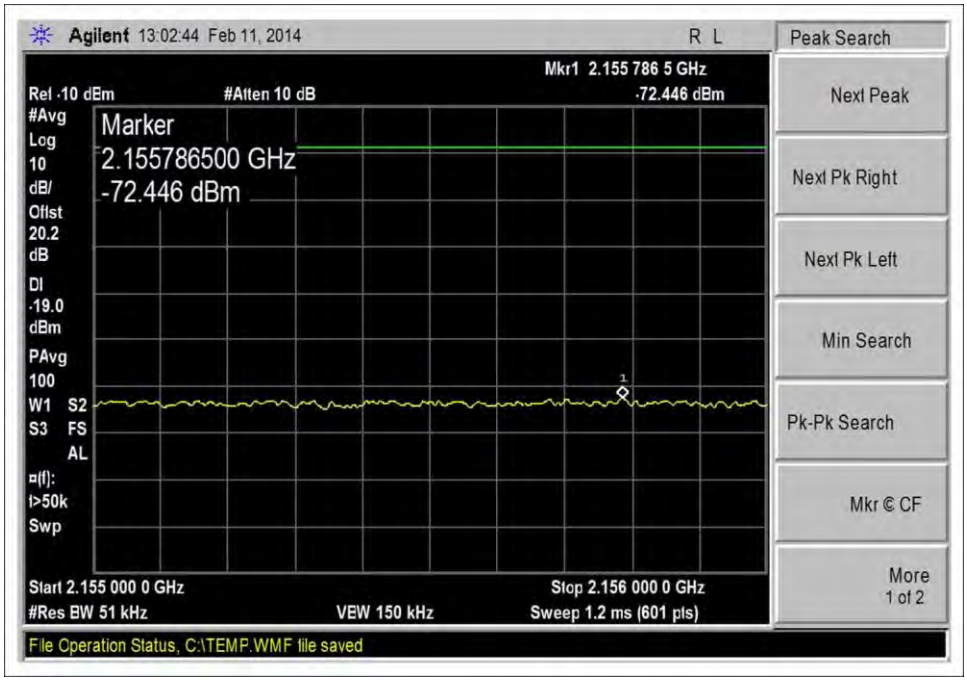
DL - 2110-2155 Low Channel, CDMA pre AGC



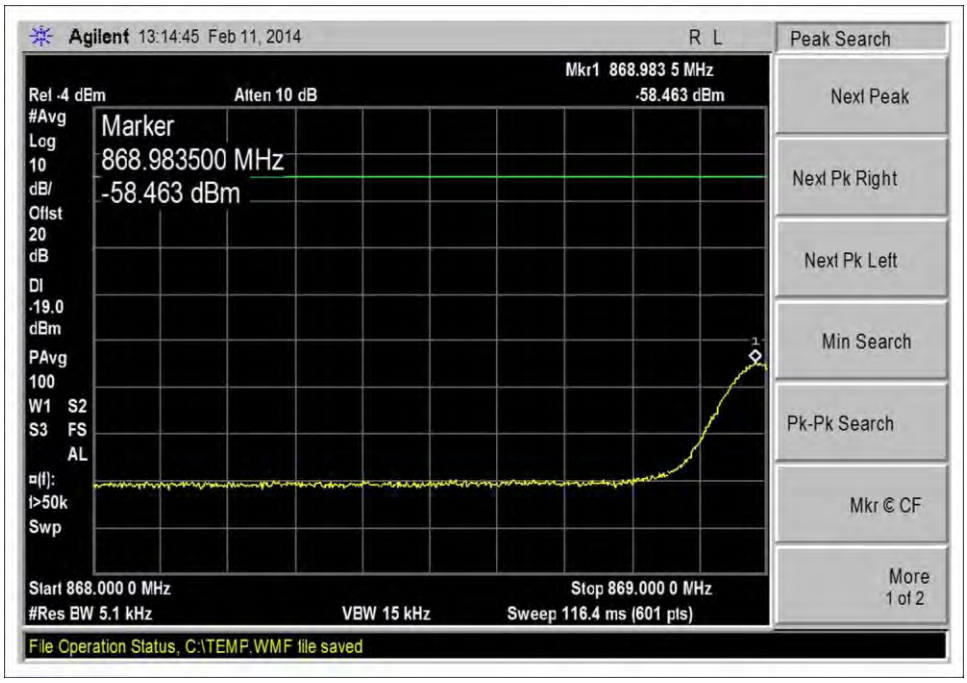
DL - 2110-2155 Low Channel, CDMA -20dbm



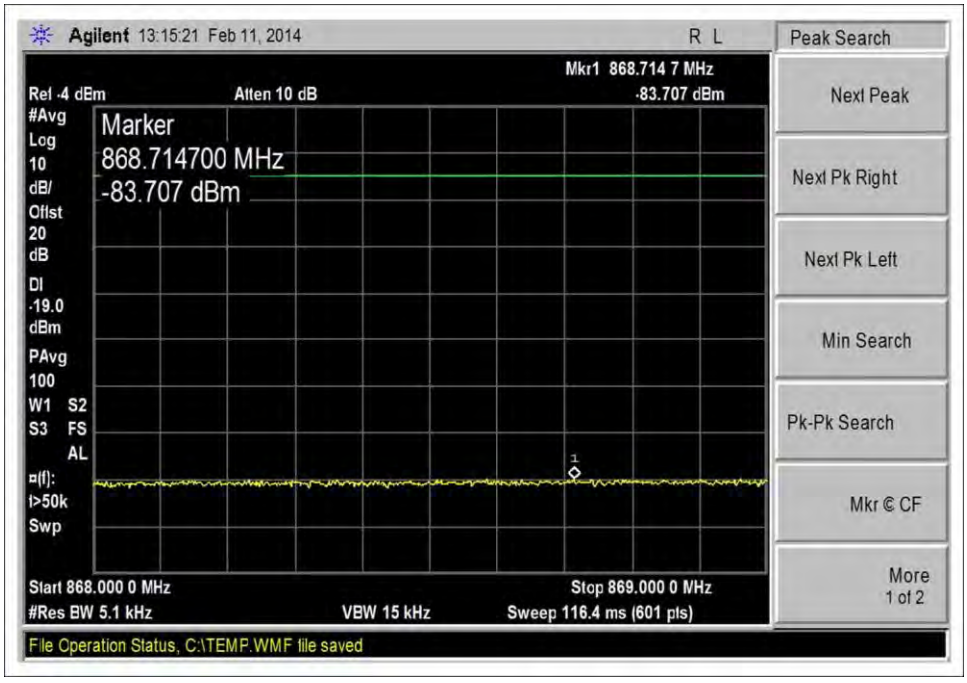
DL - 2110-2155 High Channel, CDMA pre AGC



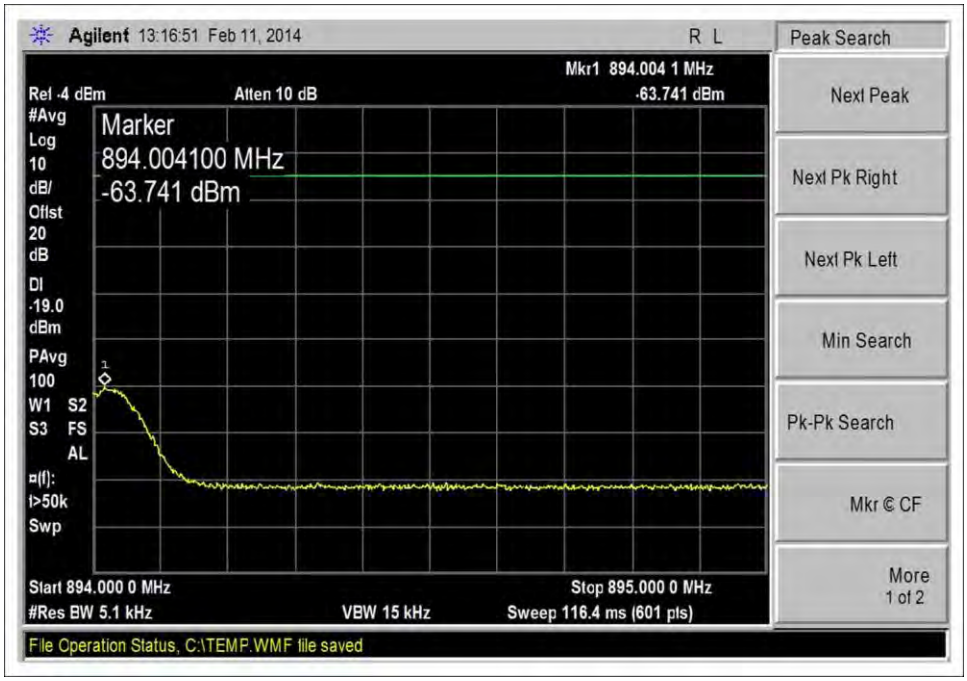
DL - 2110-2155 High Channel, CDMA -20dbm



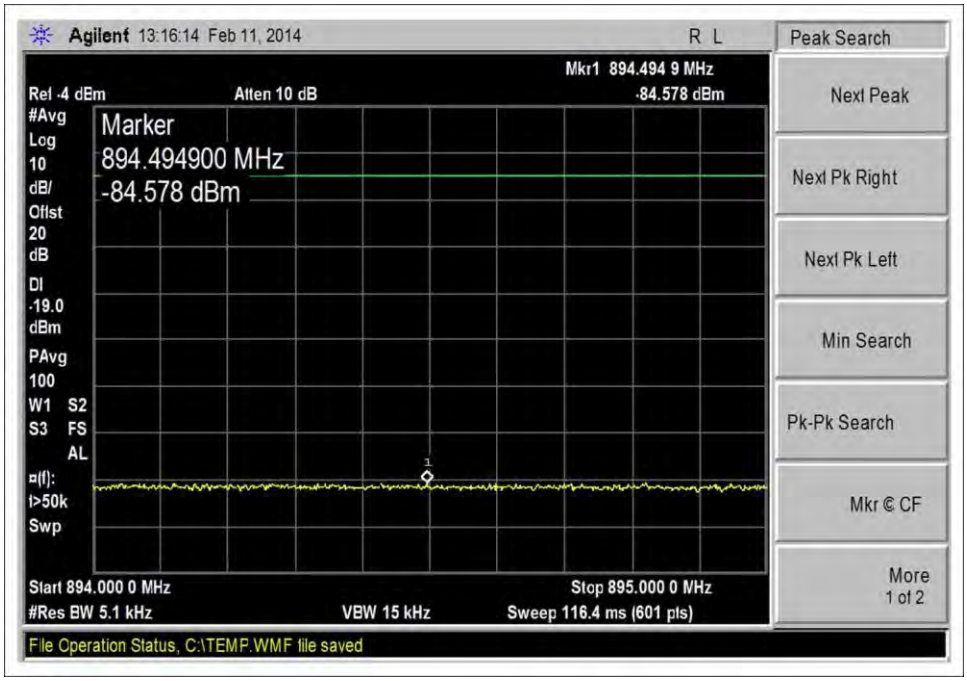
DL - 869-894 Low Channel, GSM pre AGC



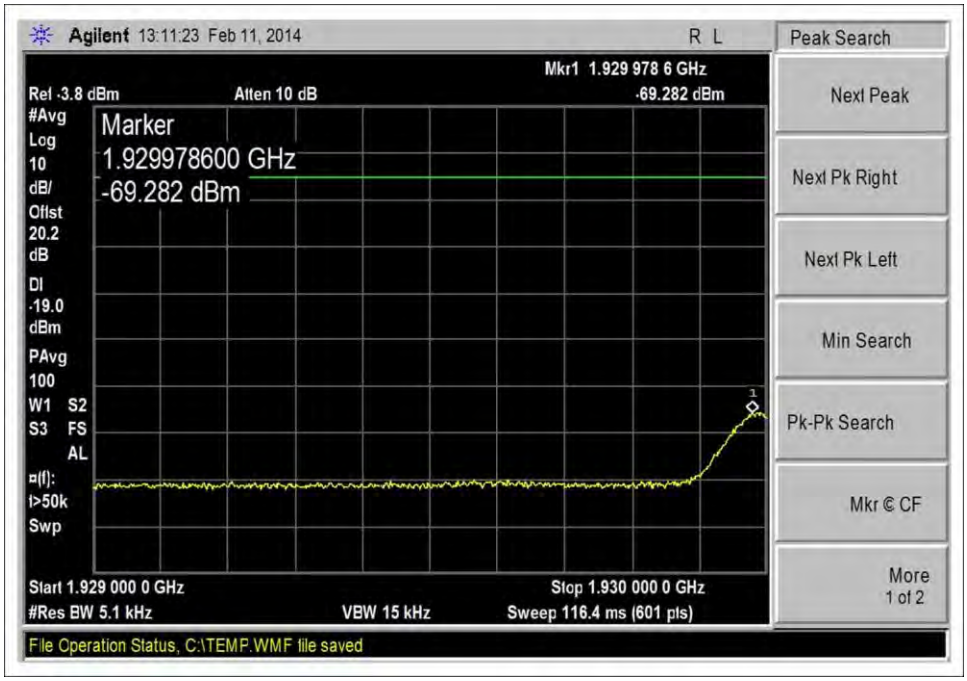
DL - 869-894 Low Channel, GSM -20dbm



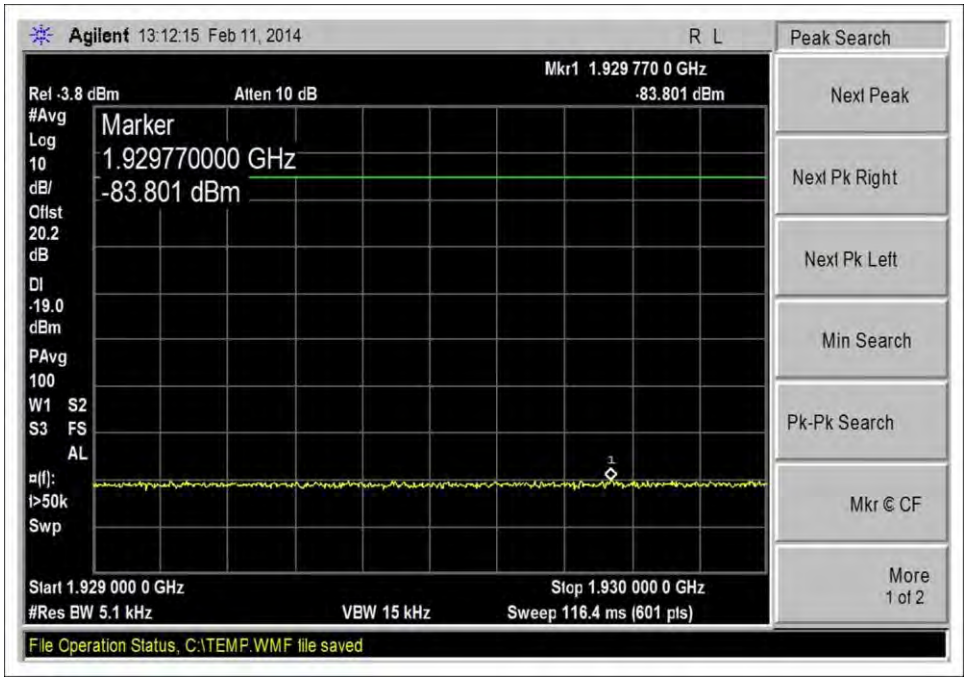
DL - 869-894 High Channel, GSM pre AGC



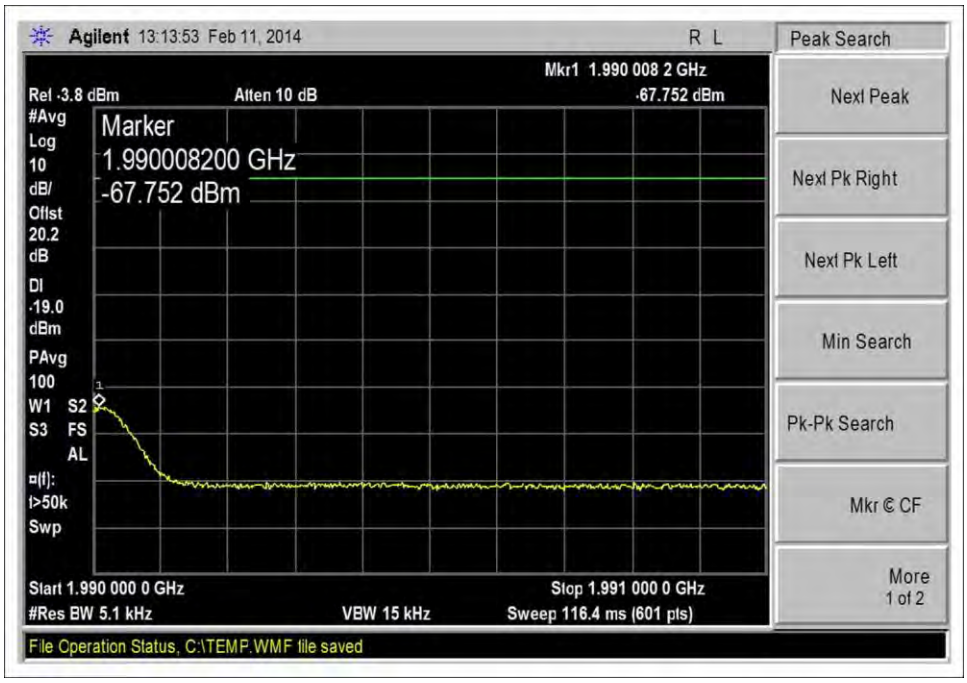
DL - 869-894 High Channel, GSM -20dbm



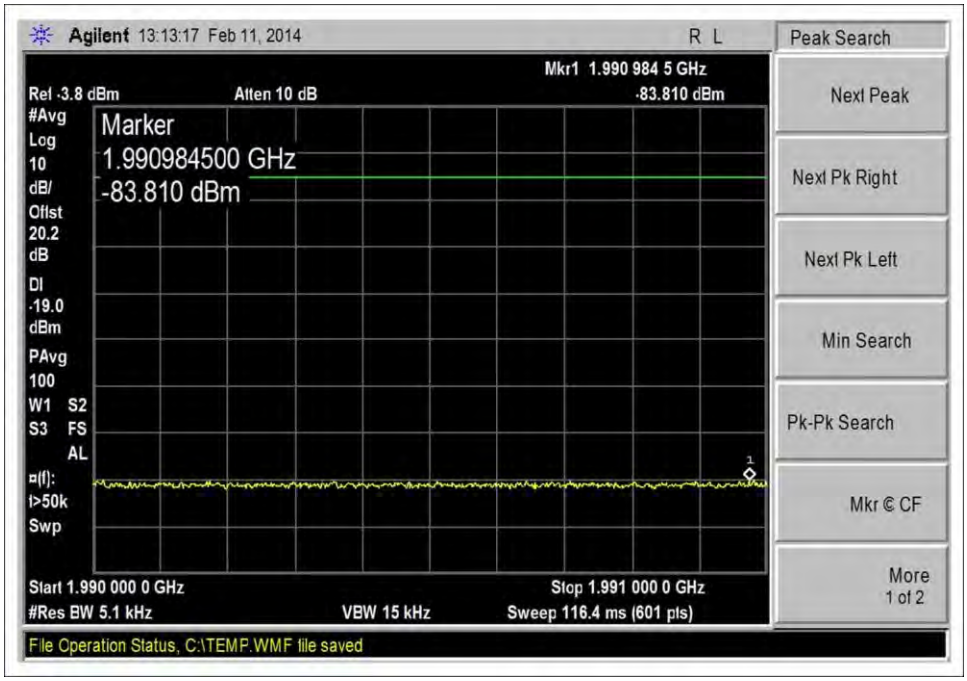
DL - 1930-1990 Low Channel, GSM pre AGC



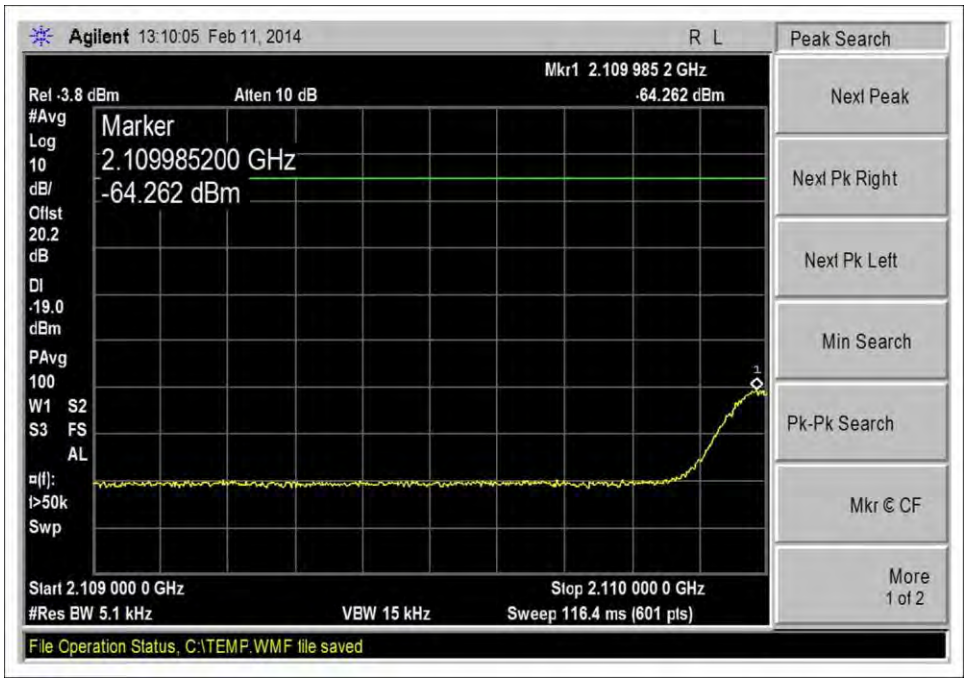
DL - 1930-1990 Low Channel, GSM -20dbm



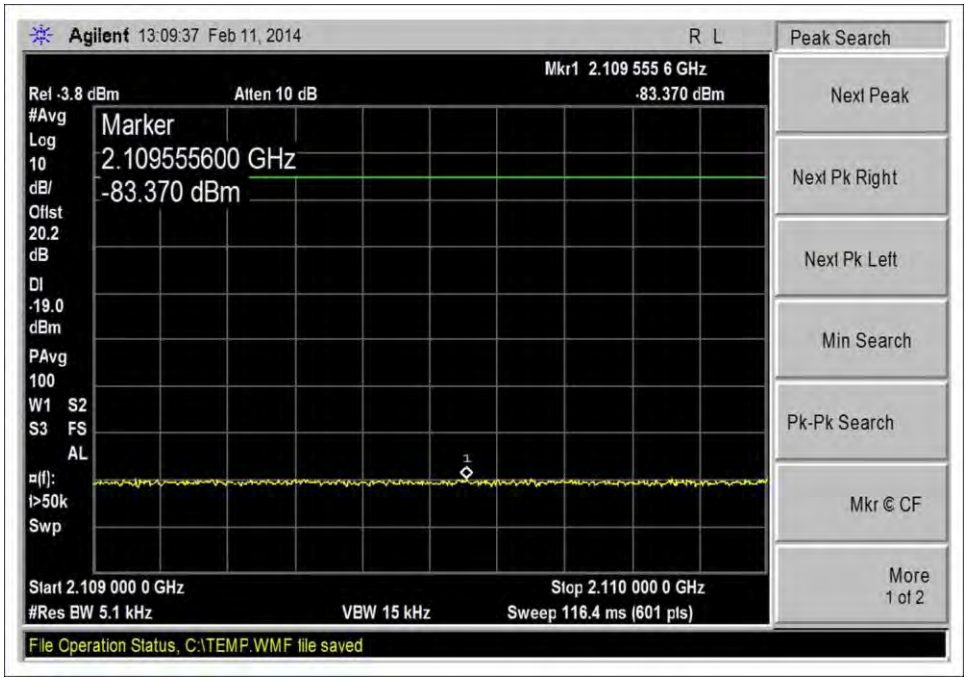
DL - 1930-1990 High Channel, GSM pre AGC



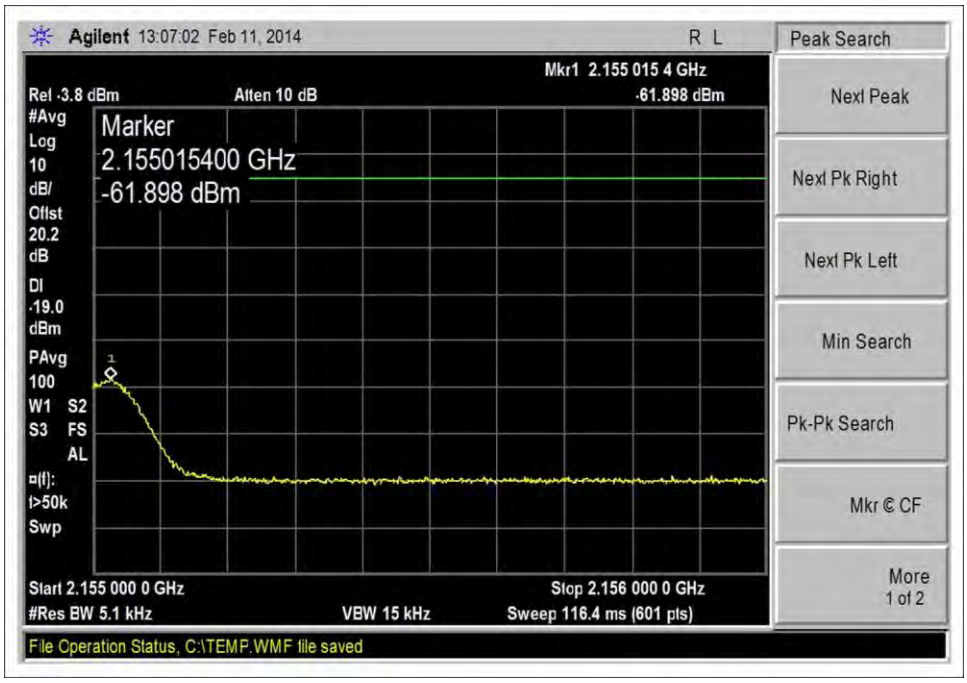
DL - 1930-1990 High Channel, GSM -20dbm



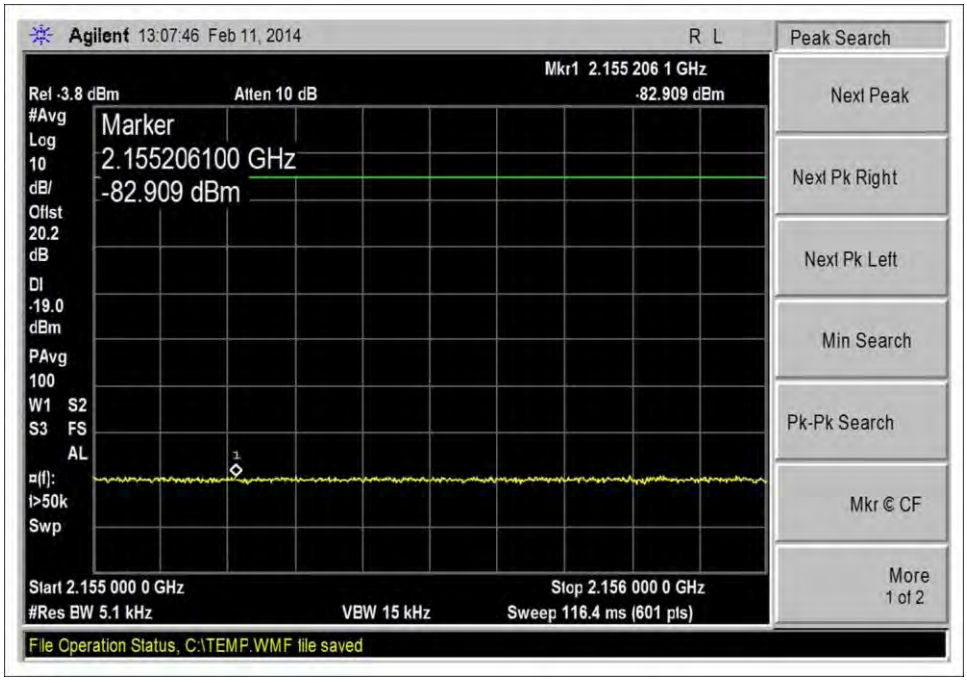
DL - 2110-2155 Low Channel, GSM pre AGC



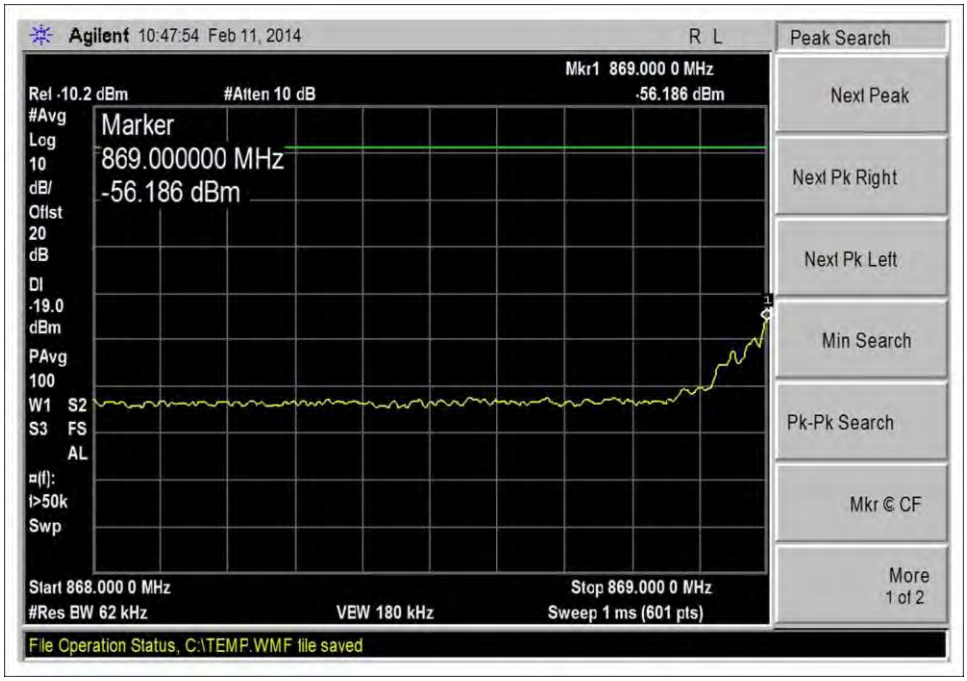
DL - 2110-2155 Low Channel, GSM -20dbm



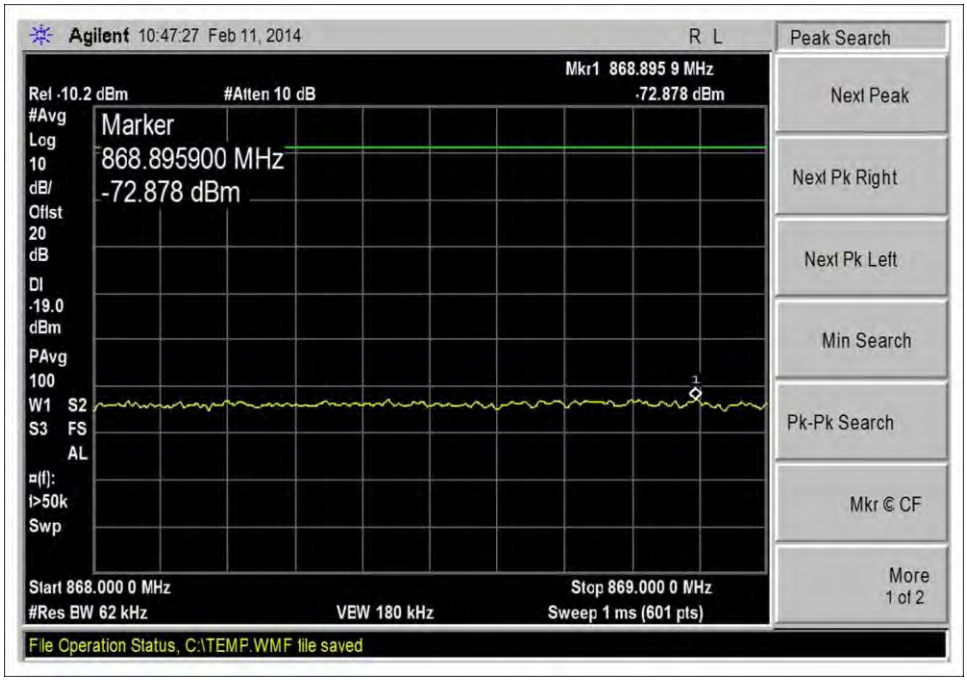
DL - 2110-2155 High Channel, GSM pre AGC



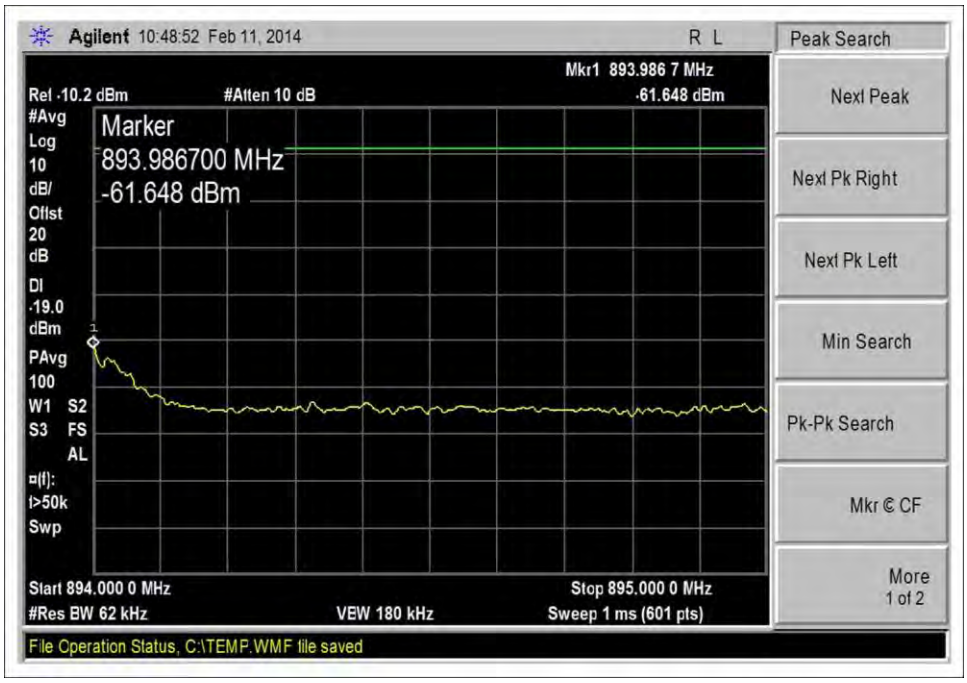
DL - 2110-2155 High Channel, GSM -20dbm



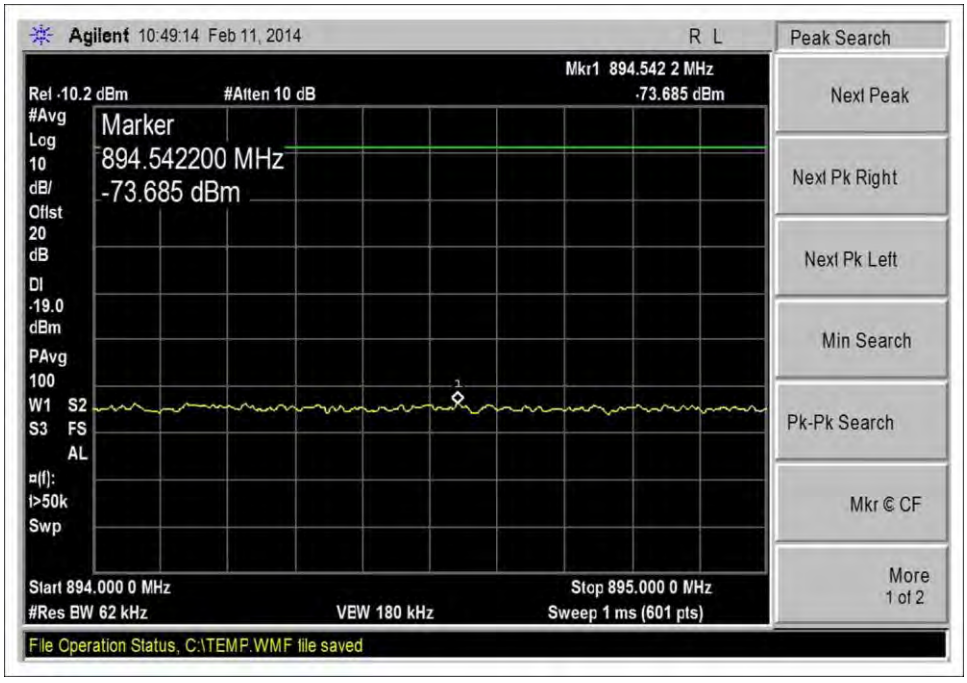
DL - 869-894 Low Channel, LTE pre AGC



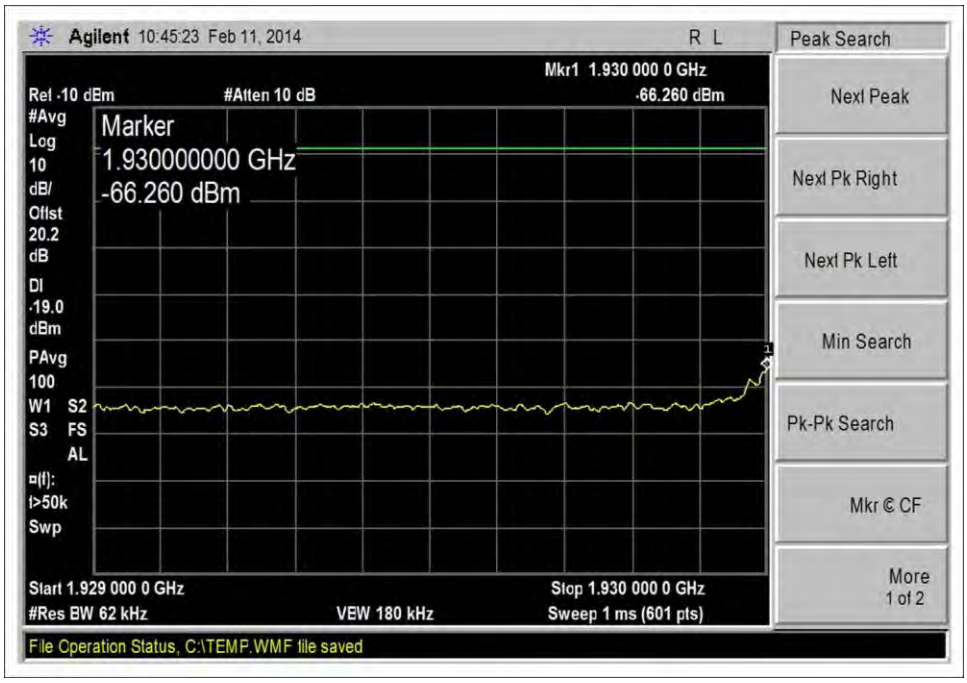
DL - 869-894 Low Channel, LTE -20dbm



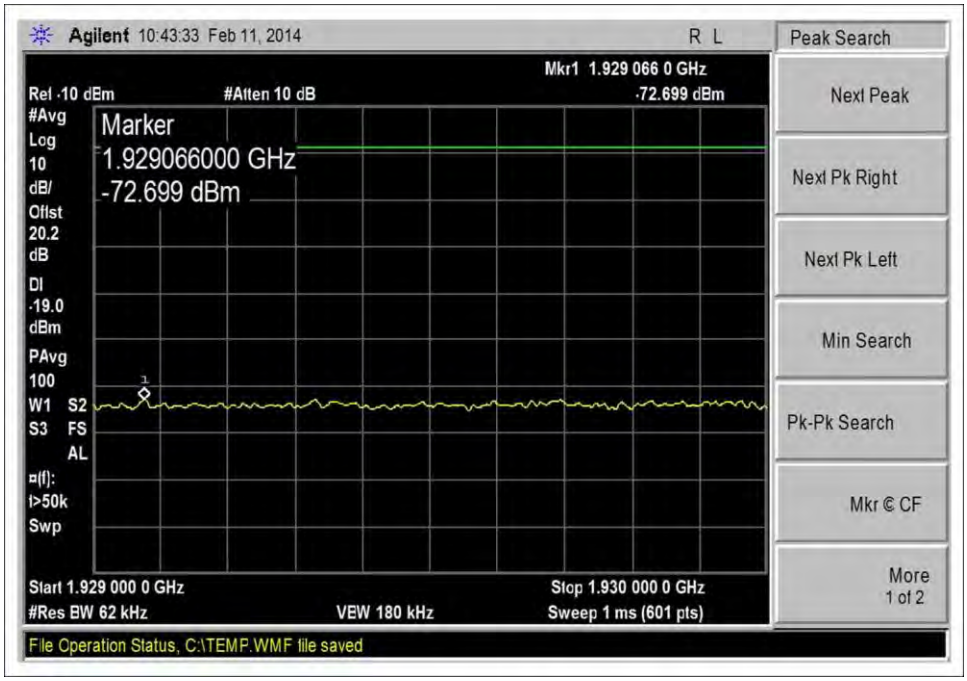
DL-869-894 High Channel, LTE pre AGC



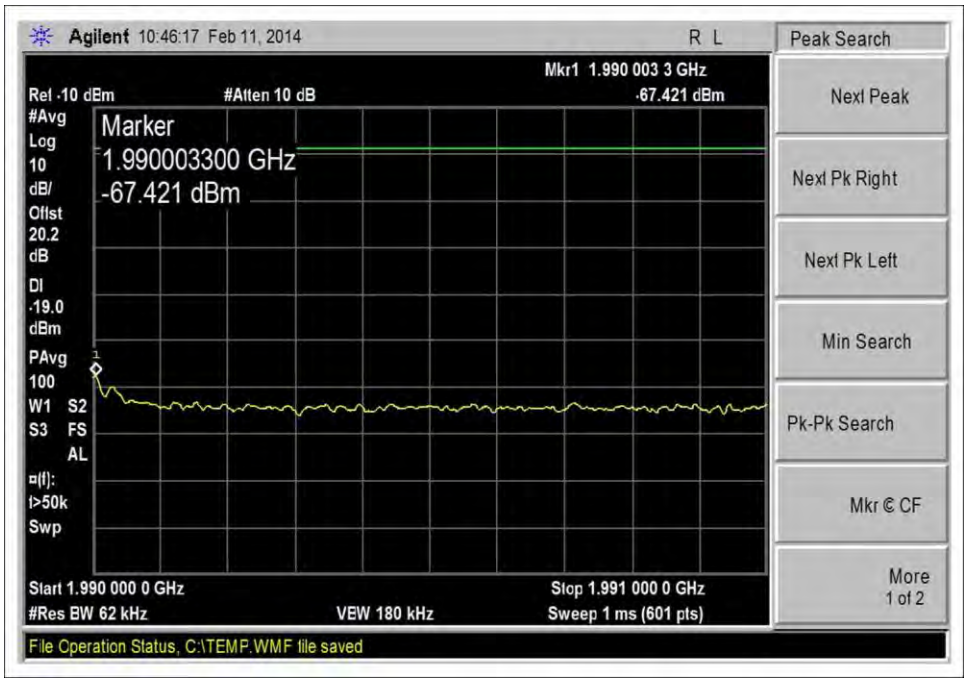
DL - 869-894 High Channel, LTE -20dbm



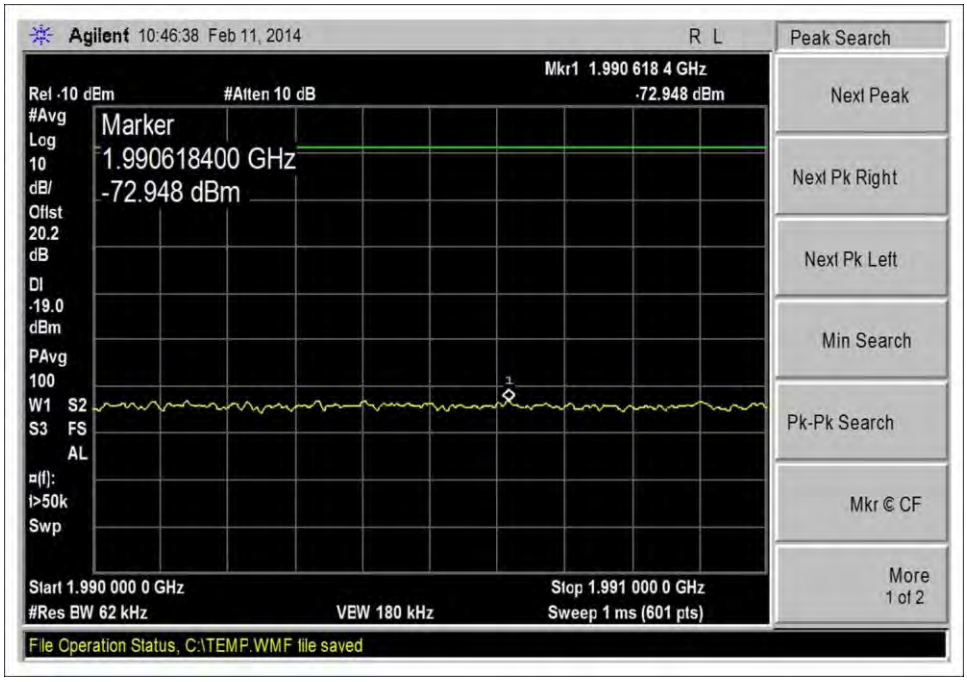
DL - 1930-1990 Low Channel, LTE pre AGC



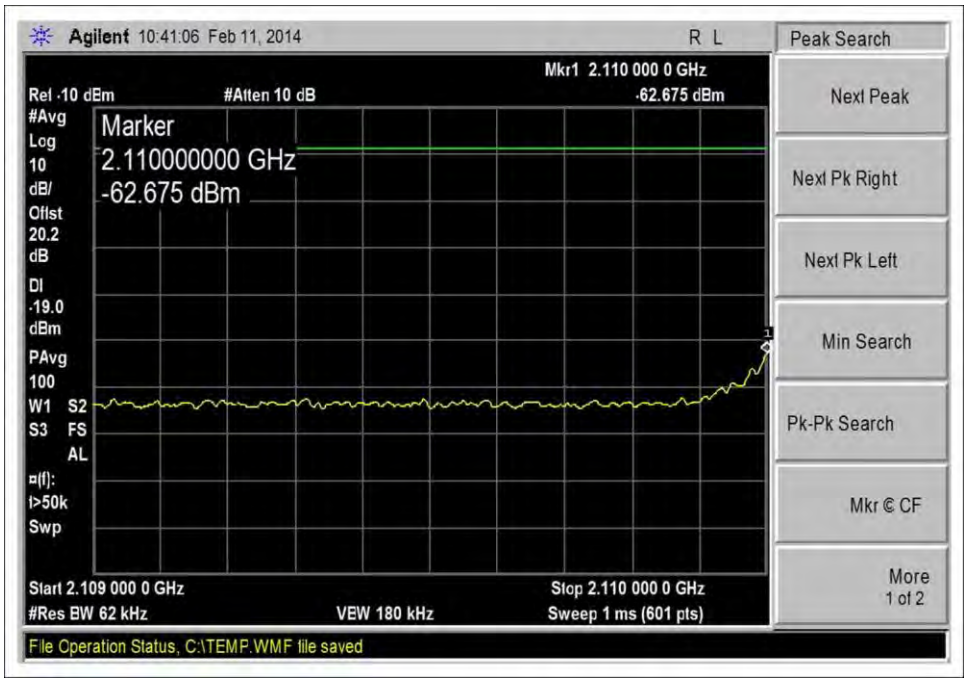
DL - 1930-1990 Low Channel, LTE -20dbm



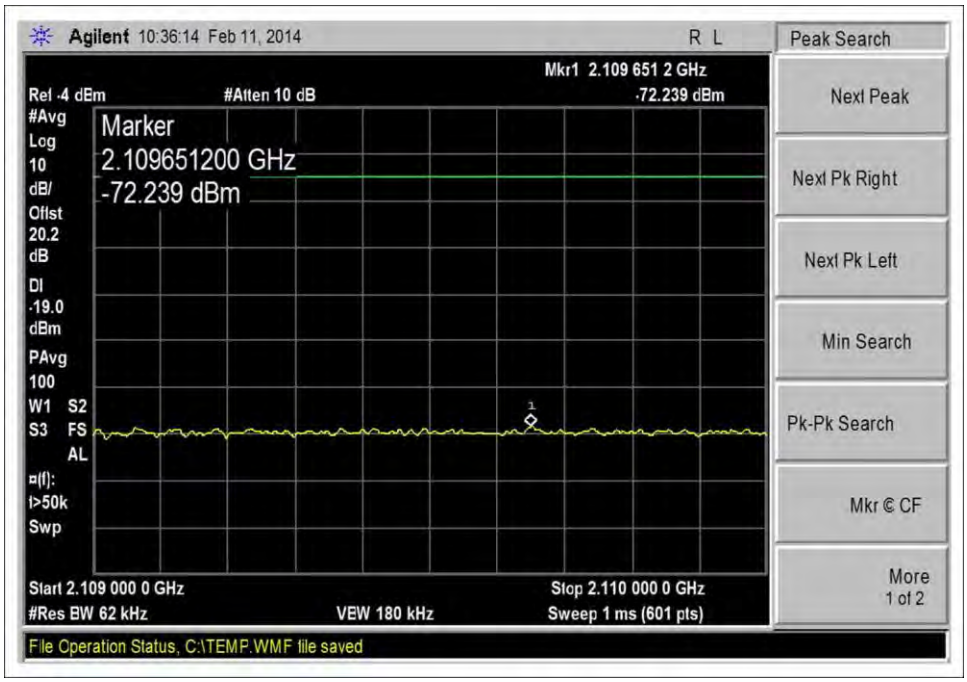
DL - 1930-1990 High Channel, LTE pre AGC



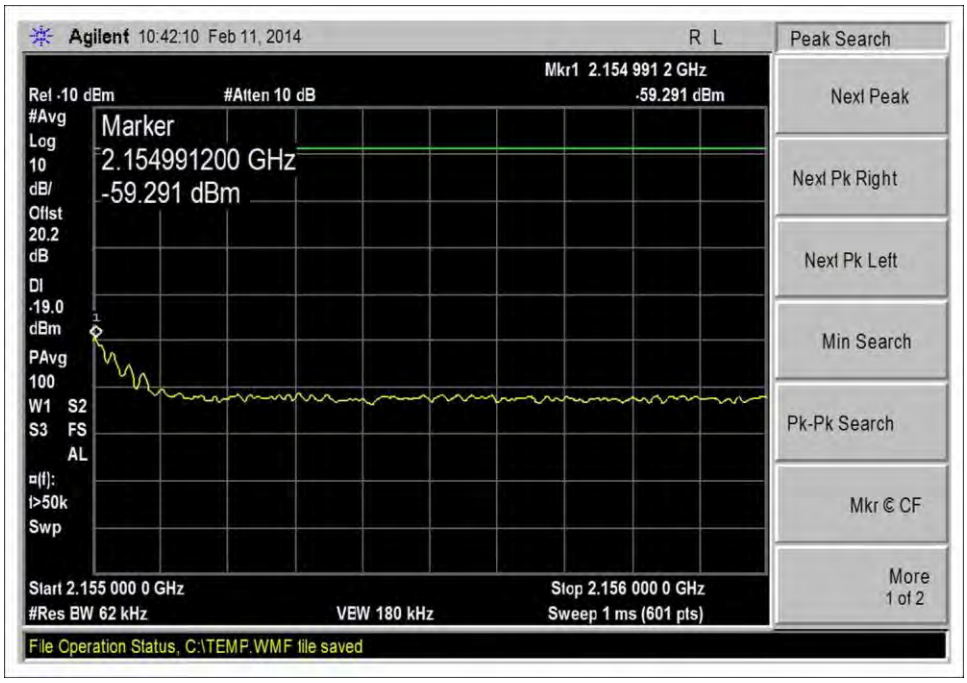
DL - 1930-1990 High Channel, LTE -20dbm



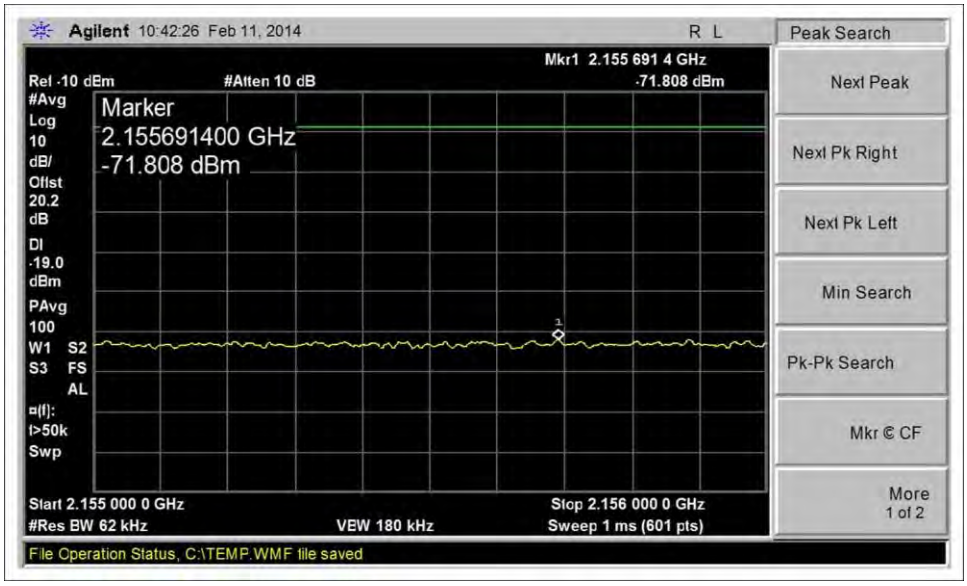
DL - 2110-2155 Low Channel, LTE pre AGC



DL - 2110-2155 Low Channel, LTE -20dbm

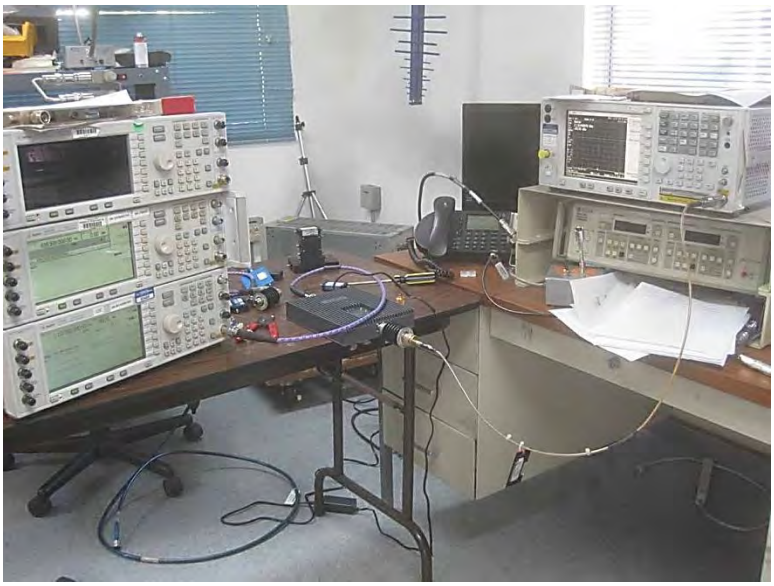


DL - 2110-2155 High Channel, LTE pre AGC



DL - 2110-2155 High Channel, LTE -20dbm

Test Setup Photo(s)



Clause 7.7 Noise limit

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea CA 92823 • 714-993-6112

Customer: **Cellphone-Mate, Inc.**
Specification: **7.7 Noise Limits**
Work Order #: **95353** Date: 2/14/2014
Test Type: **Conducted Emissions** Time: 08:53:16
Equipment: **Mobile Wideband Consumer Signal Booster** Sequence#: 10
Manufacturer: Cellphone-Mate, Inc. Tested By: Don Nguyen
Model: TriFlex-2Go-T 120V 60Hz
S/N: NA

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015
	AN02672	Spectrum Analyzer	E4446A	9/4/2012	9/4/2014
	C00082	Coupler	MECA Electronics, Inc	8/21/2013	8/21/2015
	03412	Filter	PE8705	8/26/2013	8/26/2015
	03413	Filter	PE8706	8/26/2013	8/26/2015
	03414	Filter	PE8707	8/26/2013	8/26/2015
	03415	Filter	PE8708	8/26/2013	8/26/2015
	03447	Filter	PE8710	9/20/2013	9/20/2015
	03448	Filter	PE8711	9/20/2013	9/20/2015
	03446	Filter	4FV50-707/H18-O/O	1/6/2014	1/6/2016
	03467	Filter	4FV50-731/H30-O/O	1/6/2014	1/6/2016
	03468	Filter	4CS10-781.5/E12.2-O/O	1/6/2014	1/6/2016
	03469	Filter	4CS10-751.5/E12-O/O	1/6/2014	1/6/2016

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster*	Cellphone-Mate, Inc.	TriFlex-2Go-T	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4433B	US40052164
Power Supply	SureCall	GFP451DA-0945-1	1308-0000325

Test Conditions / Notes:

The equipment under test (EUT) is placed on the table top. EUT set at maximum gain for all bands. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port. EUT is powered by 9V power supply.

UL 824-849
DL 869-894

UL 1850-1910
DL 1930-1990

UL 1710-1755
DL 2110-2155

Test procedure: The test was performed in accordance with section 7.7 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 22, 2014

Temperature: 19°C, Humidity: 36%, Pressure: 100.1kPa

Site D

Summary of Results

Pass: All measured noise level is under the limit.
All measured variable uplink noise timings are within 1 second limit.

	Cellular		AWS-1		Broadband PCS	
	UL	DL	UL	DL	UL	DL
Fl	824.0	869.0	1710.0	2110.0	1850.0	1930.0
Fh	849.0	894.0	1755.0	2155.0	1910.0	1990.0
Fmid	**836.5**	**881.5**	**1732.5**	**2132.5**	**1880.0**	**1960.0**
Span 2xCMRS	50	50	90	90	120	120

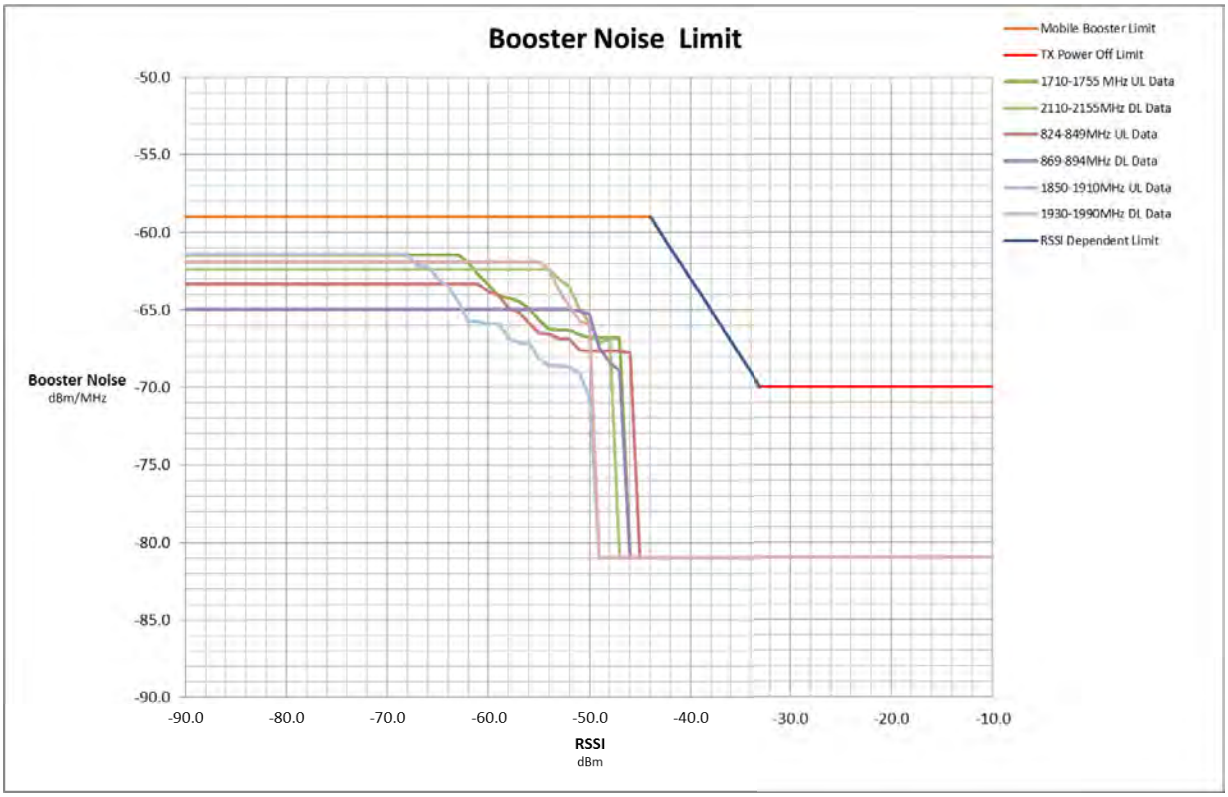
	Measured Noise level dBm/MHz					
RSSI (dBm)						
RF Off						
-90.0	-63.3	-65.0	-61.5	-62.4	-61.4	-61.9
-80.0	-63.3	-65.0	-61.5	-62.4	-61.4	-61.9
-70.0	-63.3	-65.0	-61.5	-62.4	-61.4	-61.9
-69.0	-63.3	-65.0	-61.5	-62.4	-61.4	-61.9
-68.0	-63.3	-65.0	-61.5	-62.4	-61.4	-61.9
-67.0	-63.3	-65.0	-61.5	-62.4	-62.2	-61.9
-66.0	-63.3	-65.0	-61.5	-62.4	-62.2	-61.9
-65.0	-63.3	-65.0	-61.5	-62.4	-63.0	-61.9
-64.0	-63.3	-65.0	-61.5	-62.4	-63.5	-61.9
-63.0	-63.3	-65.0	-61.5	-62.4	-64.5	-61.9
-62.0	-63.3	-65.0	-61.9	-62.4	-65.8	-61.9
-61.0	-63.3	-65.0	-62.7	-62.4	-65.8	-61.9
-60.0	-63.8	-65.0	-63.4	-62.4	-65.9	-61.9
-59.0	-64.1	-65.0	-64.1	-62.4	-65.9	-61.9
-58.0	-64.9	-65.0	-64.2	-62.4	-66.8	-61.9
-57.0	-65.1	-65.0	-64.4	-62.4	-67.1	-61.9
-56.0	-65.9	-65.0	-64.9	-62.4	-67.2	-61.9
-55.0	-66.5	-65.0	-65.7	-62.4	-68.1	-61.9
-54.0	-66.5	-65.0	-66.2	-62.4	-68.6	-62.4
-53.0	-66.8	-65.0	-66.3	-63.0	-68.6	-63.7
-52.0	-66.9	-65.0	-66.3	-63.5	-68.6	-64.7
-51.0	-67.6	-65.1	-66.6	-65.0	-69.1	-65.7

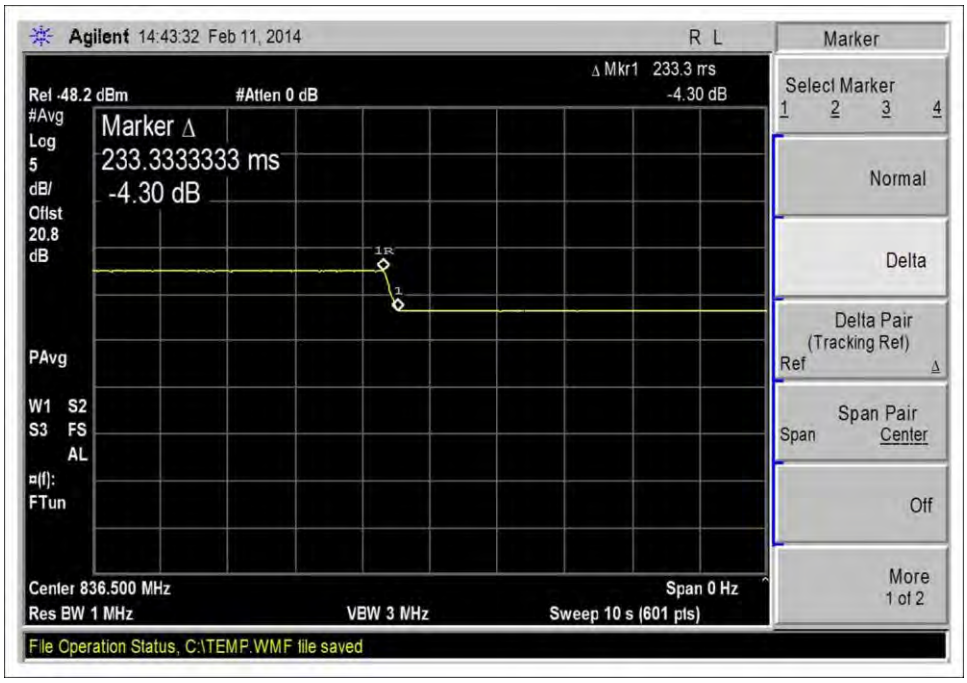
Measured Noise level dBm/MHz						
RSSI (dBm)						
-50.0	-67.7	-65.3	-66.8	-65.8	-70.6	-66.0
-49.0	-67.7	-67.5	-66.8	-67.2	-81.0	-81.0
-48.0	-67.7	-68.4	-66.8	-66.9	-81.0	-81.0
-47.0	-67.7	-68.9	-66.8	-81.0	-81.0	-81.0
-46.0	-67.8	-81.0	-81.0	-81.0	-81.0	-81.0
-45.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-44.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-43.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-42.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-41.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-40.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-39.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-38.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-37.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-36.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-34.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-33.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-32.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-31.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-30.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-20.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0
-10.0	-81.0	-81.0	-81.0	-81.0	-81.0	-81.0

Noise Limits Summary Table / Six Values Closest To Limit					
RSSI Level (dBm)	Measured Noise Power Level (dBm/MHz)	Limit Region	Limit Line (dBm/MHz)	Margin (dB)	Frequency Band (MHz)
-90	-63.3	Mobile noise limit	-59	-4.3	824-849 MHz UL
-80	-63.3	Mobile noise limit	-59	-4.3	824-849 MHz UL
-70	-63.3	Mobile noise limit	-59	-4.3	824-849 MHz UL
-69	-63.3	Mobile noise limit	-59	-4.3	824-849 MHz UL
-36	-81	RSSI Dependent	-67	-14	824-849 MHz UL
-34	-81	RSSI Dependent	-69	-12	824-849 MHz UL
-90	-65.0	Mobile noise limit	-59	-6.0	869-894 MHz DL
-80	-65.0	Mobile noise limit	-59	-6.0	869-894 MHz DL
-70	-65.0	Mobile noise limit	-59	-6.0	869-894 MHz DL
-69	-65.0	Mobile noise limit	-59	-6.0	869-894 MHz DL
-36	-81	RSSI Dependent	-67	-14	869-894 MHz DL
-34	-81	RSSI Dependent	-69	-12	869-894 MHz DL
-90	-61.5	Mobile noise limit	-59	-2.5	1710-1755 MHz UL
-80	-61.5	Mobile noise limit	-59	-2.5	1710-1755 MHz UL
-70	-61.5	Mobile noise limit	-59	-2.5	1710-1755 MHz UL
-69	-61.5	Mobile noise limit	-59	-2.5	1710-1755 MHz UL
-36	-81	RSSI Dependent	-67	-14	1710-1755 MHz UL
-34	-81	RSSI Dependent	-69	-12	1710-1755 MHz UL
-90	-62.4	Mobile noise limit	-59	-3.4	2110-2155 MHz DL
-80	-62.4	Mobile noise limit	-59	-3.4	2110-2155 MHz DL
-70	-62.4	Mobile noise limit	-59	-3.4	2110-2155 MHz DL
-69	-62.4	Mobile noise limit	-59	-3.4	2110-2155 MHz DL

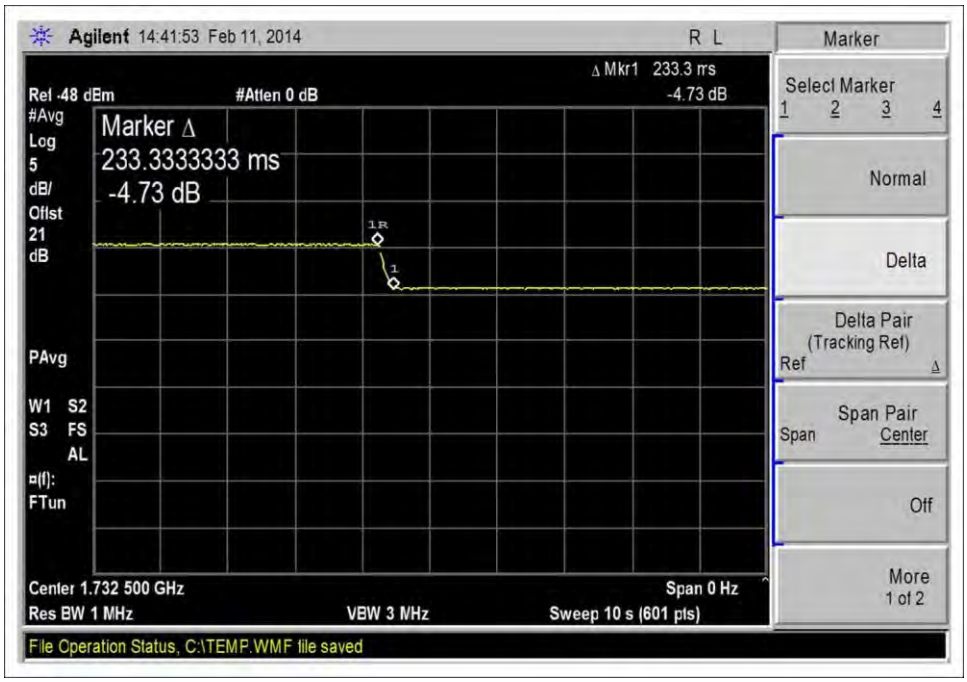
-36	**-81**	**RSSI Dependent**	**-67**	**-14**	**2110-2155 MHz DL**
-34	-81	RSSI Dependent	-69	-12	2110-2155 MHz DL
-90	-61.4	Mobile noise limit	-59	-2.4	1850-1910 MHz UL
-80	-61.4	Mobile noise limit	-59	-2.4	1850-1910 MHz UL
-70	-61.4	Mobile noise limit	-59	-2.4	1850-1910 MHz UL
-69	-61.4	Mobile noise limit	-59	-2.4	1850-1910 MHz UL
-36	-81	RSSI Dependent	-67	-14	1850-1910 MHz UL
-34	-81	RSSI Dependent	-69	-12	1850-1910 MHz UL
-90	-61.9	Mobile noise limit	-59	-2.9	1930-1990 MHz DL
-80	-61.9	Mobile noise limit	-59	-2.9	1930-1990 MHz DL
-70	-61.9	Mobile noise limit	-59	-2.9	1930-1990 MHz DL
-69	-61.9	Mobile noise limit	-59	-2.9	1930-1990 MHz DL
-36	-81	RSSI Dependent	-67	-14	1930-1990 MHz DL
-34	-81	RSSI Dependent	-69	-12	1930-1990 MHz DL

Test Data

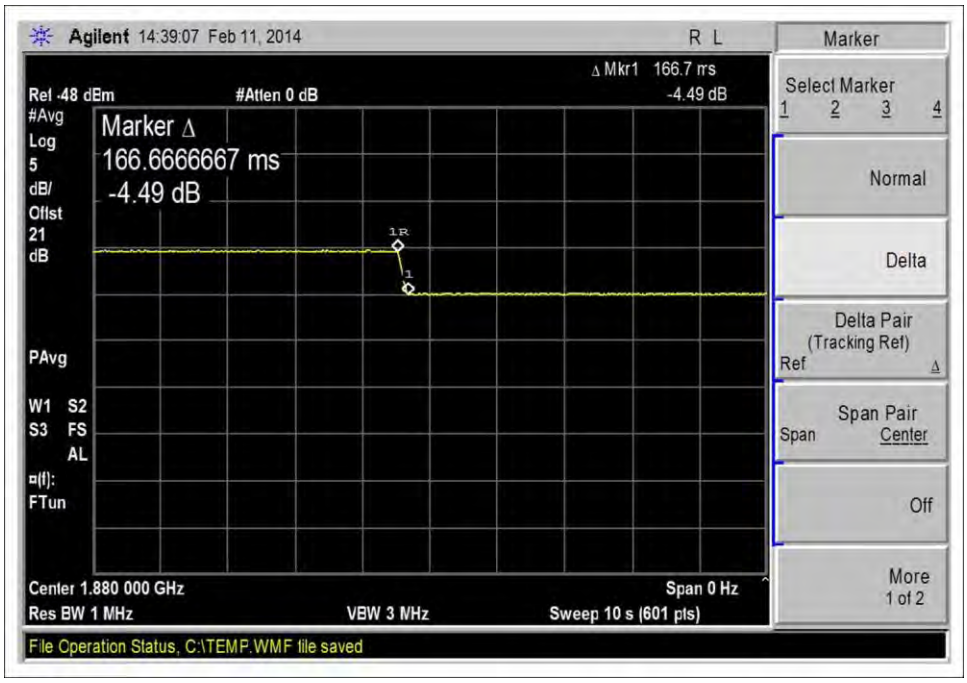

Booster Noise Limit
Mobile Booster Limit
TX Power Off Limit
1710-1755 MHz UL Data
2110-2155MHz DL Data
824-849MHz UL Data
869-894MHz DL Data
1850-1910MHz UL Data
1930-1990MHz DL Data
RSSI Dependent Limit
Booster Noise
dBm/MHz
-50.0
-55.0
-60.0
-65.0
-70.0
-75.0
-80.0
-85.0
-90.0
-90.0
-80.0
-70.0
-60.0
-50.0
-40.0
-30.0
-20.0
-10.0
RSSI
dBm



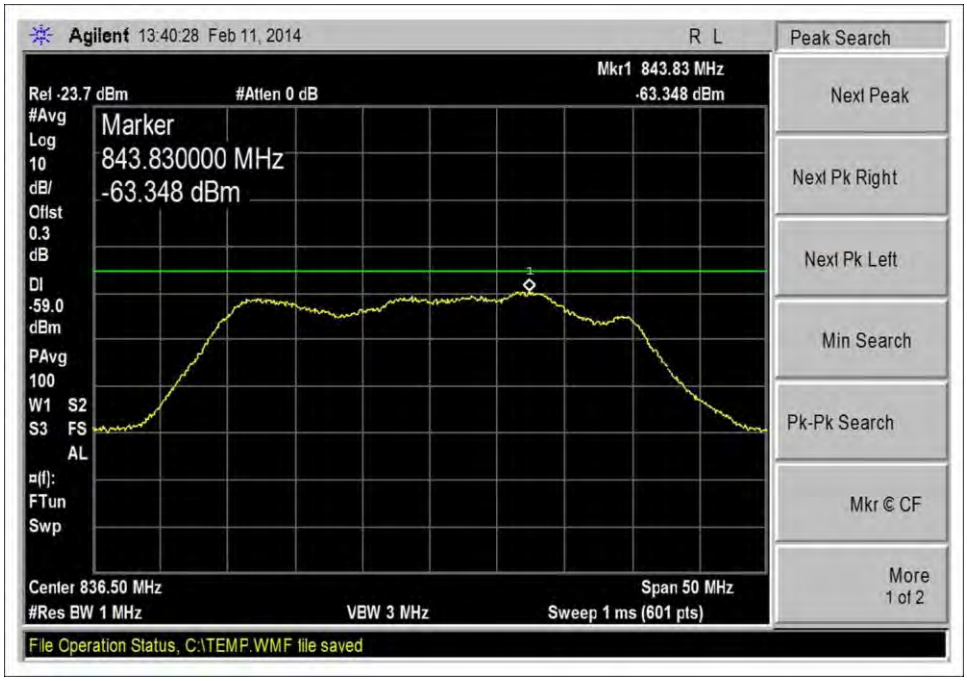
UL - 824-849, Variable Noise Timing



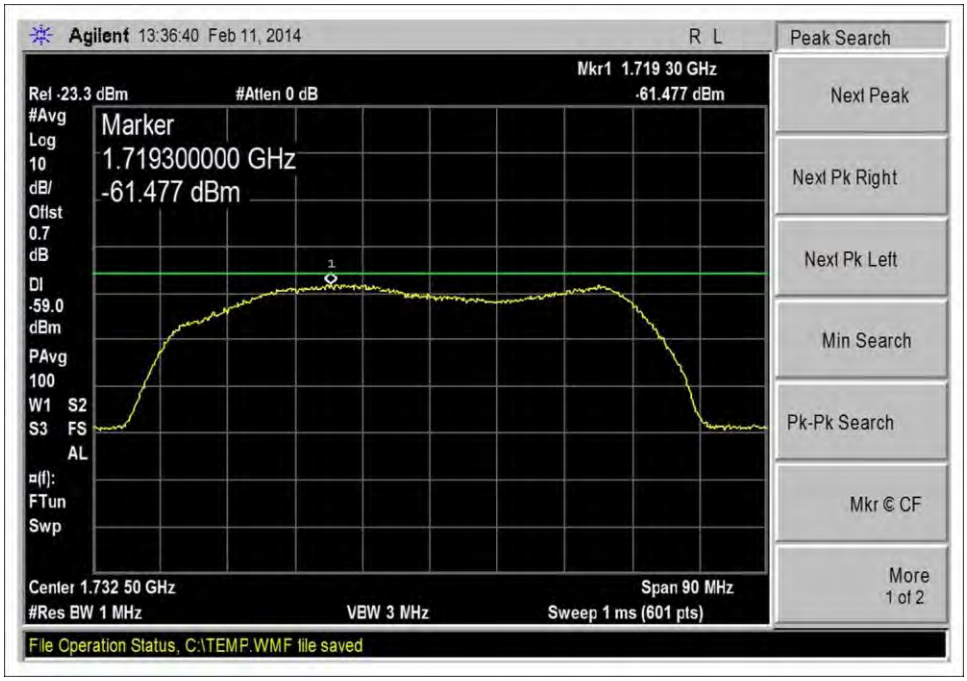
UL - 1710-1755, Variable Noise Timing



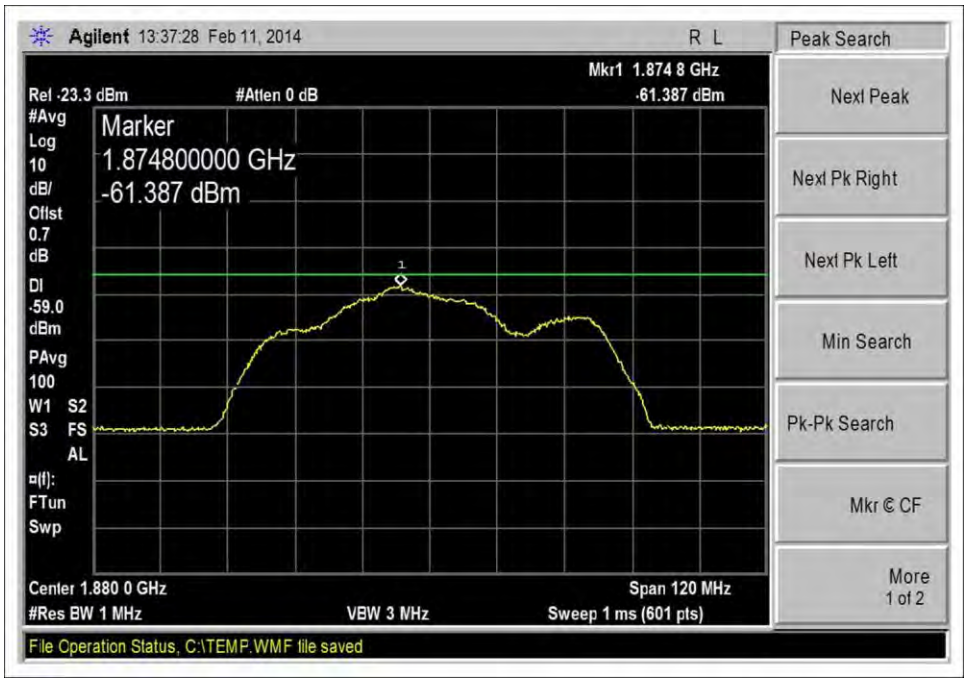
UL - 1850-1910, Variable Noise Timing



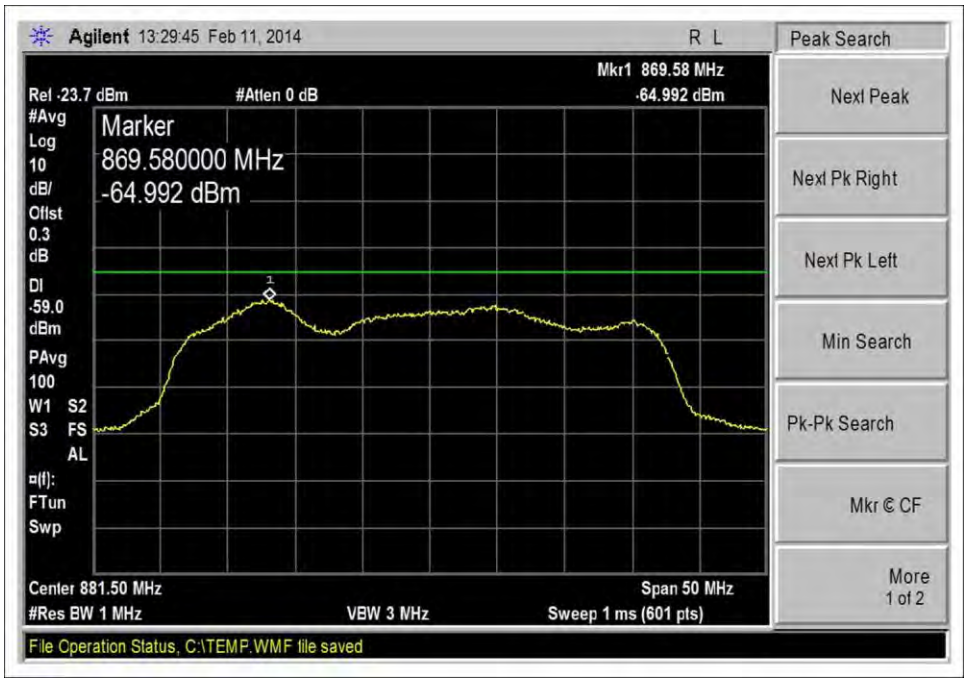
UL - 824-849, Max Noise



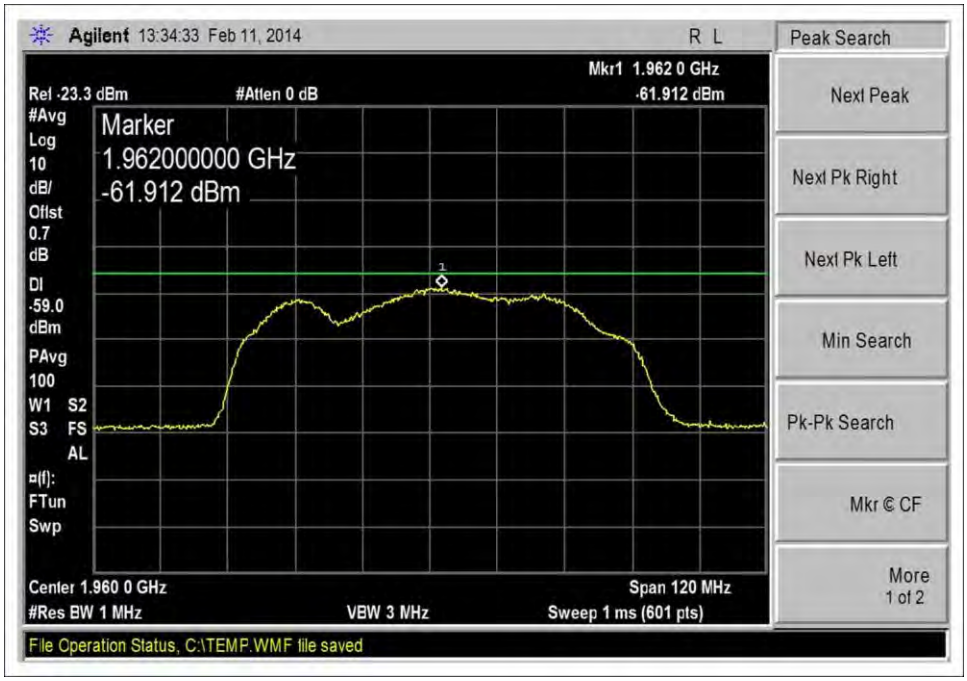
UL - 1710-1755, Max Noise



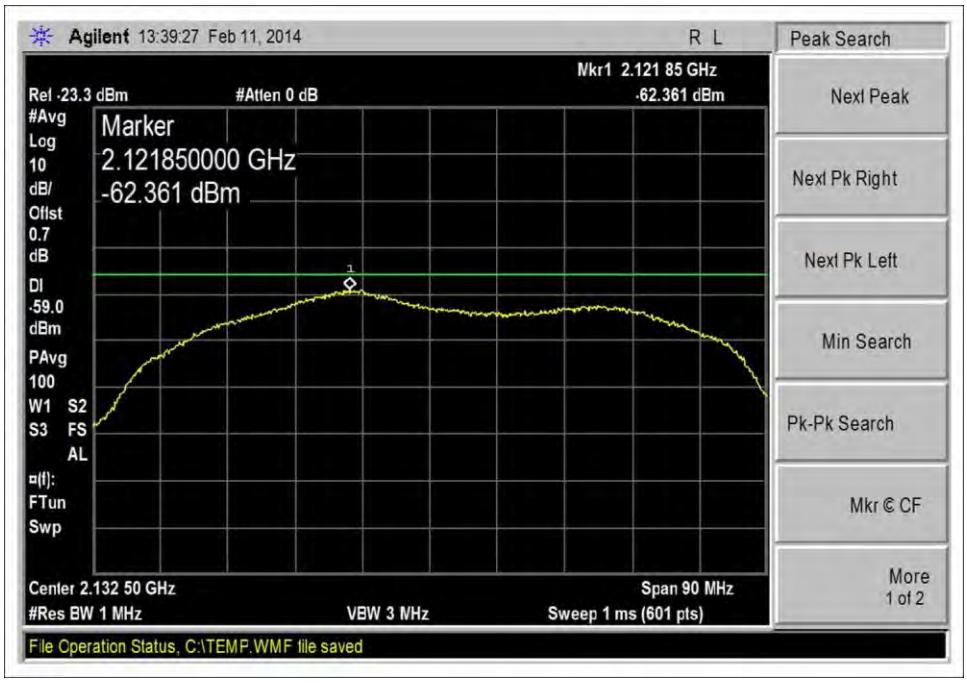
UL - 1850-1910, Max Noise



DL - 869-894, Max Noise

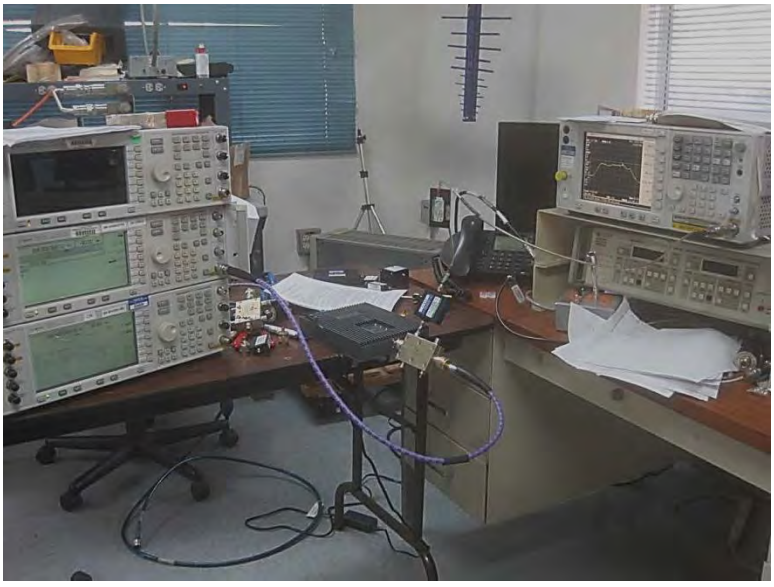


DL - 1930-1990, Max Noise



DL - 2110-2155, Max Noise

Test Setup Photo(s)



Clause 7.8 Uplink Inactivity

Test Conditions / Setup

Test Location: CKC Laboratories , Inc. • 110 N Olinda Place • Brea CA 92823 • 714-993-6112

Customer:	**Cellphone-Mate, Inc.**		
Specification:	**7.8 Uplink Inactivity**		
Work Order #:	**95353**	Date:	2/14/2014
Test Type:	**Conducted Emissions**	Time:	08:53:16
Equipment:	**Mobile Wideband Consumer Signal Booster**	Sequence#:	10
Manufacturer:	Cellphone-Mate, Inc.	Tested By:	Don Nguyen
Model:	TriFlex-2Go-T		120V 60Hz
S/N:	NA		

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015
	AN02672	Spectrum Analyzer	E4446A	9/4/2012	9/4/2014

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster*	Cellphone-Mate, Inc.	TriFlex-2Go-T	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4433B	US40052164
Power Supply	SureCall	GFP451DA-0945-1	1308-0000325

Test Conditions / Notes:

The equipment under test (EUT) is placed on the table top. EUT set at maximum gain for all bands. Evaluation performed at the Outside (Donor) port. EUT is powered by 9V power supply.

UL 824-849
UL 1850-1910
UL 1710-1755

Test procedure: The test was performed in accordance with section 7.8 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 22, 2014

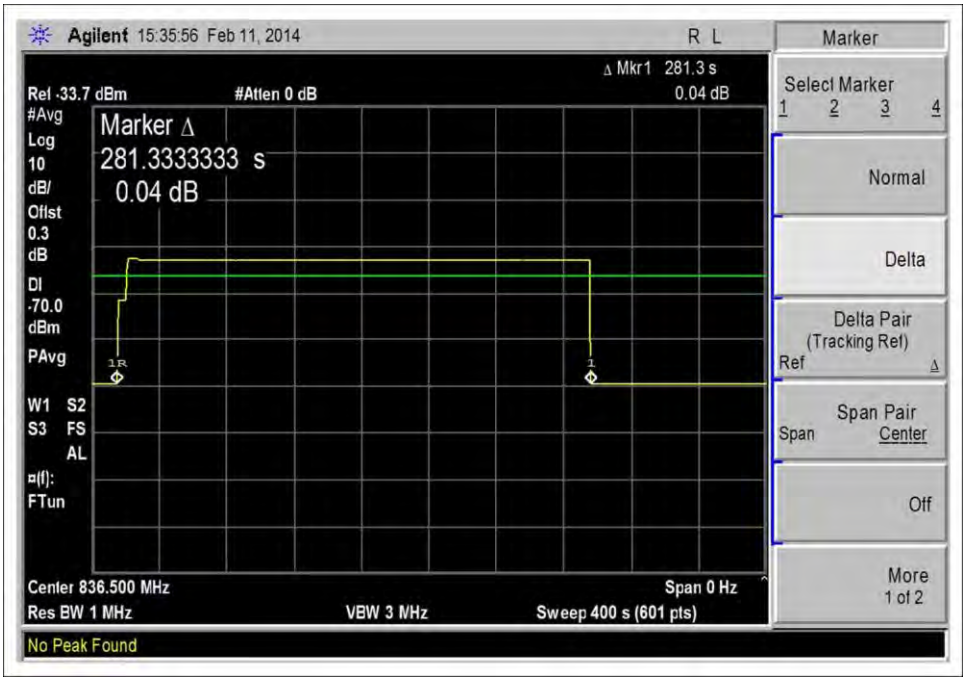
Temperature: 19°C, Humidity: 36%, Pressure: 100.1kPa

Site D

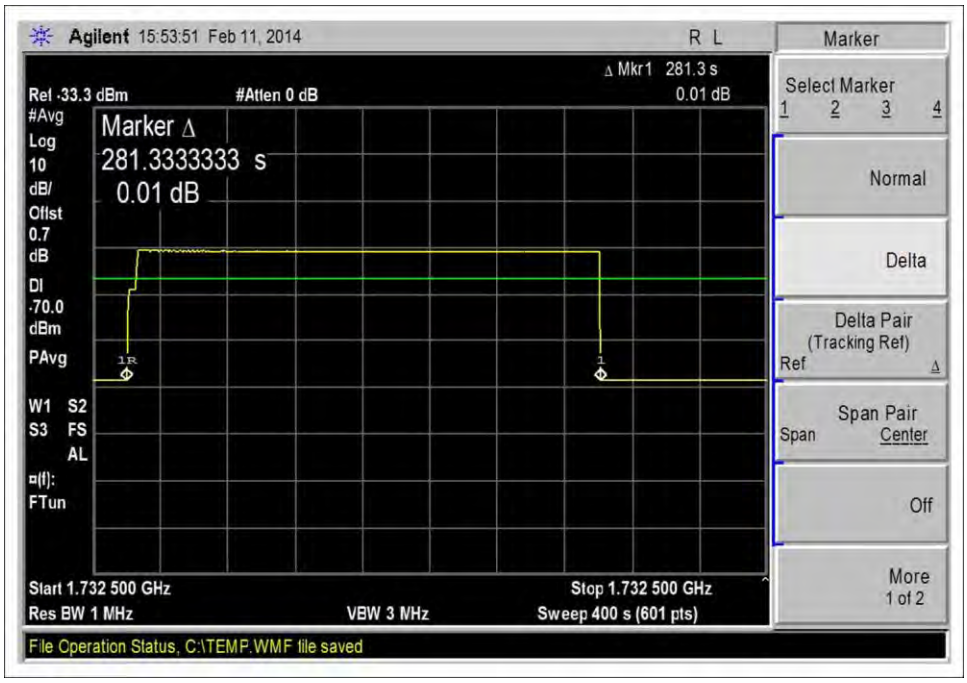
Summary of Results

Pass: As demonstrated, when the booster is not serving an active device connection after 5 minutes the uplink noise power does not exceed -70dbm/MHz.

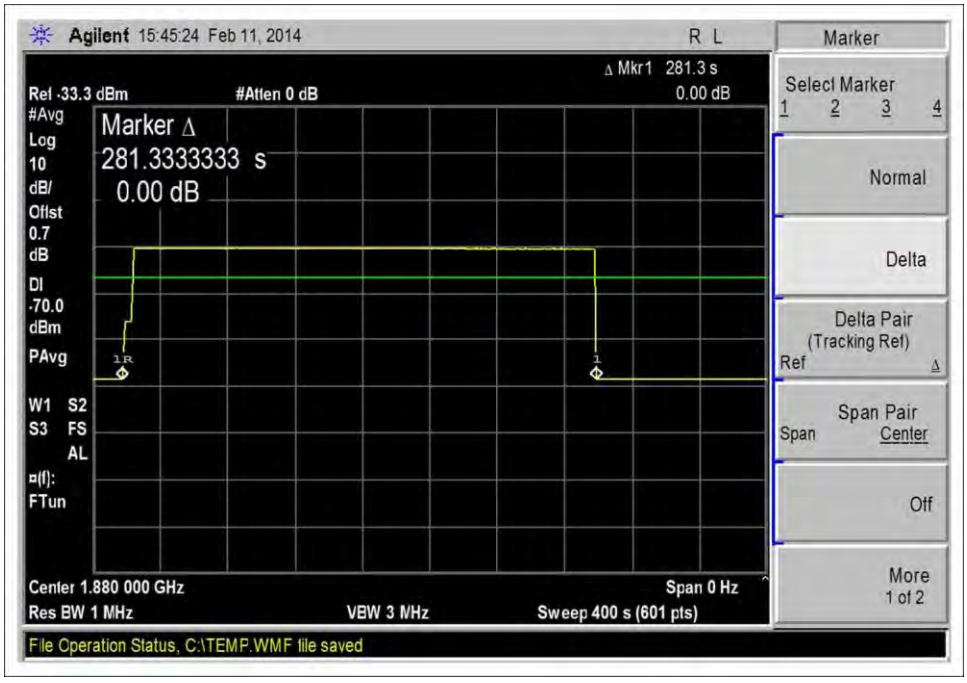
Test Data



UL - 824-849

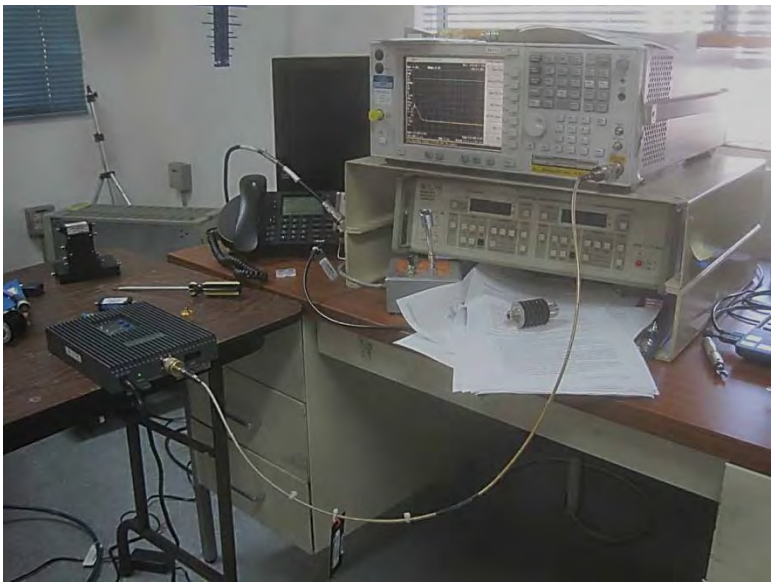


UL - 1710-1755



UL - 1850-1910

Test Setup Photo(s)



Clause 7.9 Booster Gain Limit

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea CA 92823 • 714-993-6112

Customer: **Cellphone-Mate, Inc.**
Specification: **7.9 Variable Booster Gain**
Work Order #: **95353** Date: 2/14/2014
Test Type: **Conducted Emissions** Time: 08:53:16
Equipment: **Mobile Wideband Consumer Signal Booster** Sequence#: 10
Manufacturer: Cellphone-Mate, Inc. Tested By: Don Nguyen
Model: TriFlex-2Go-T 120V 60Hz
S/N: NA

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015
	AN02672	Spectrum Analyzer	E4446A	9/4/2012	9/4/2014
	C00082	Coupler	MECA Electronics, Inc	8/21/2013	8/21/2015
	03412	Filter	PE8705	8/26/2013	8/26/2015
	03413	Filter	PE8706	8/26/2013	8/26/2015
	03414	Filter	PE8707	8/26/2013	8/26/2015
	03415	Filter	PE8708	8/26/2013	8/26/2015
	03447	Filter	PE8710	9/20/2013	9/20/2015
	03448	Filter	PE8711	9/20/2013	9/20/2015
	03446	Filter	4FV50-707/H18-O/O	1/6/2014	1/6/2016
	03467	Filter	4FV50-731/H30-O/O	1/6/2014	1/6/2016
	03468	Filter	4CS10-781.5/E12.2-O/O	1/6/2014	1/6/2016
	03469	Filter	4CS10-751.5/E12-O/O	1/6/2014	1/6/2016

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster*	Cellphone-Mate, Inc.	TriFlex-2Go-T	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Signal Generator	Agilent	E4433B	US40052164
Signal Generator	Agilent	E4433B	US40053279
Power Supply	SureCall	GFP451DA-0945-1	1308-0000325

Test Conditions / Notes:

The equipment under test (EUT) is placed on the table top. EUT set at maximum gain for all bands. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port. EUT is powered by 9V power supply.

UL 824-849
DL 869-894

UL 1850-1910
DL 1930-1990

UL 1710-1755
DL 2110-2155

Test procedure: The test was performed in accordance with section 7.9 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 22, 2014.

Temperature: 19°C, Humidity: 36%, Pressure: 100.1kPa

Site D

Summary of Results

Pass: As demonstrated, all maximum variable uplink gain timings are within 1 second limit.
Computed gains are within the gain limit.

	AWS UL	Cellular UL	Broadband PCS UL
Fl	1710	824.0	1850
Fh	1755	849.0	1910
Fmid	**1732.5**	**836.5**	**1880**
Span 2xCMRS	90	50	120

Six Values Closest To Limit					
RSSI Level (dBm)	**Measured Uplink Gain Level (dB)**	**Limit Region**	**Limit Line (dB)**	**Margin (dB)**	**Frequency Band (MHz)**
-90	42.3	Mobile Max Gain	50	-7.7	1710-1755 MHz UL
-80	42.3	Mobile Max Gain	50	-7.7	1710-1755 MHz UL
-70	42.3	Mobile Max Gain	50	-7.7	1710-1755 MHz UL
-69	42.3	Mobile Max Gain	50	-7.7	1710-1755 MHz UL
-48	28.7	RSSI Dependent	42.1	-13.4	1710-1755 MHz UL
-47	27.7	RSSI Dependent	41.1	-13.4	1710-1755 MHz UL
-90	44.6	Mobile Max Gain	50	-5.4	824-849 MHz UL
-80	44.6	Mobile Max Gain	50	-5.4	824-849 MHz UL
-70	44.6	Mobile Max Gain	50	-5.4	824-849 MHz UL
-69	44.6	Mobile Max Gain	50	-5.4	824-849 MHz UL
-47	30.6	RSSI Dependent	41.1	-10.5	824-849 MHz UL
-46	29.6	RSSI Dependent	40.1	-10.5	824-849 MHz UL
-90	41.4	Mobile Max Gain	50	-8.6	1850-1910 MHz UL
-80	41.4	Mobile Max Gain	50	-8.6	1850-1910 MHz UL
-70	41.4	Mobile Max Gain	50	-8.6	1850-1910 MHz UL

-69	41.4	Mobile Max Gain	50	-8.6	1850-1910 MHz UL
-55	29.2	RSSI Dependent	49.1	-19.9	1850-1910 MHz UL
-54	28.2	RSSI Dependent	48.1	-19.9	1850-1910 MHz UL

Test Data

MSCL Calculations provided by manufacture.
Data is presented with MSCL=28.1db chosen as worst case scenario.

Vehicle Kit

Path loss =20Lgf+20Lgd-27.55				
Band	**f(MHz)**	**d(m)**	**Constant（dB）**	**Path loss（dB）**
PCS(1850-1910)	1850	0.4	27.55	29.8
Cellular(824-849)	824	0.4	27.55	22.8
AWS (1710-1755)	1710	0.4	27.55	29.2

MSCL					
Band	**Path loss (dB)**	**Indoor Antenna Gain(dBi)**	**Indoor Cable Loss(dB)**	**Polarity Loss(dB)**	**MSCL(dB)**
PCS (1850-1910)	29.8	3	8.8	3	38.6
Cellular (824-849)	22.8	1.1	4.3	3	29.0
AWS (1710-1755)	29.2	3	6.98	3	36.1

Marine Kit

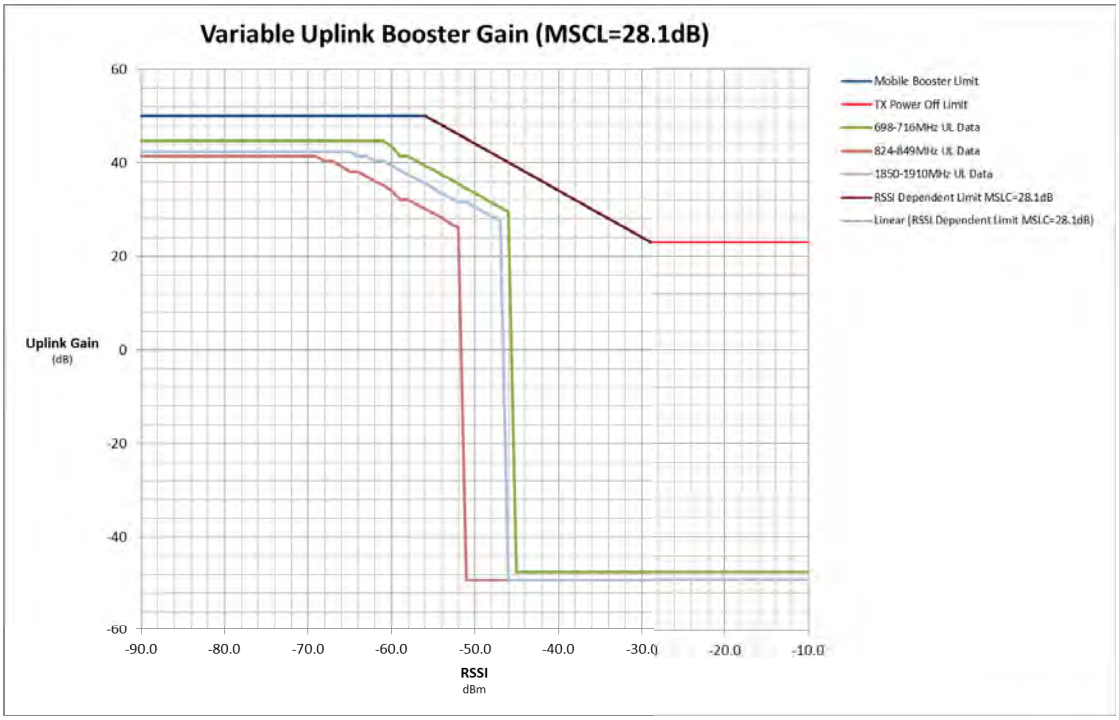
Path loss=20Lgf+20Lgd-27.55				
Band	**f(MHz)**	**d(m)**	**Constant（dB）**	**Path loss（dB）**
PCS(1850-1910)	1850	0.9	27.55	36.9
Cellular(824-849)	824	0.9	27.55	29.9
AWS (1710-1755)	1710	0.9	27.55	36.2

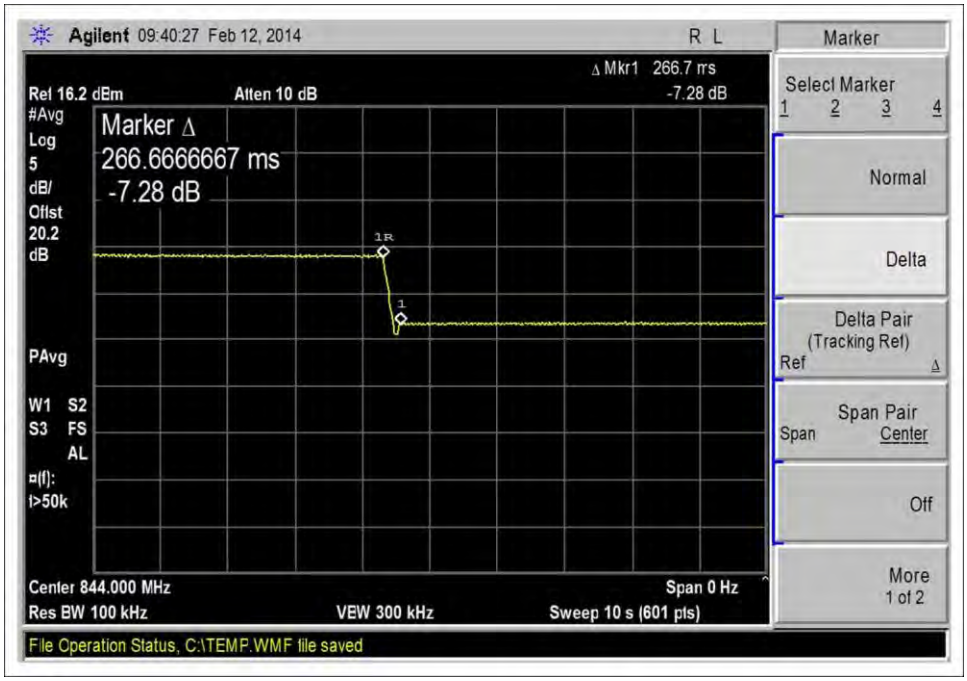
MSCL					
Band	**Path loss (dB)**	**Indoor Antenna Gain(dBi)**	**Indoor Cable Loss(dB)**	**Polarity Loss(dB)**	**MSCL(dB)**
PCS (1850-1910)	36.9	10	3.56	3	33.4
Cellular (824-849)	29.9	7	2.29	3	28.1
AWS (1710-1755)	36.2	10	3.36	3	32.6

Desktop/RV Kit

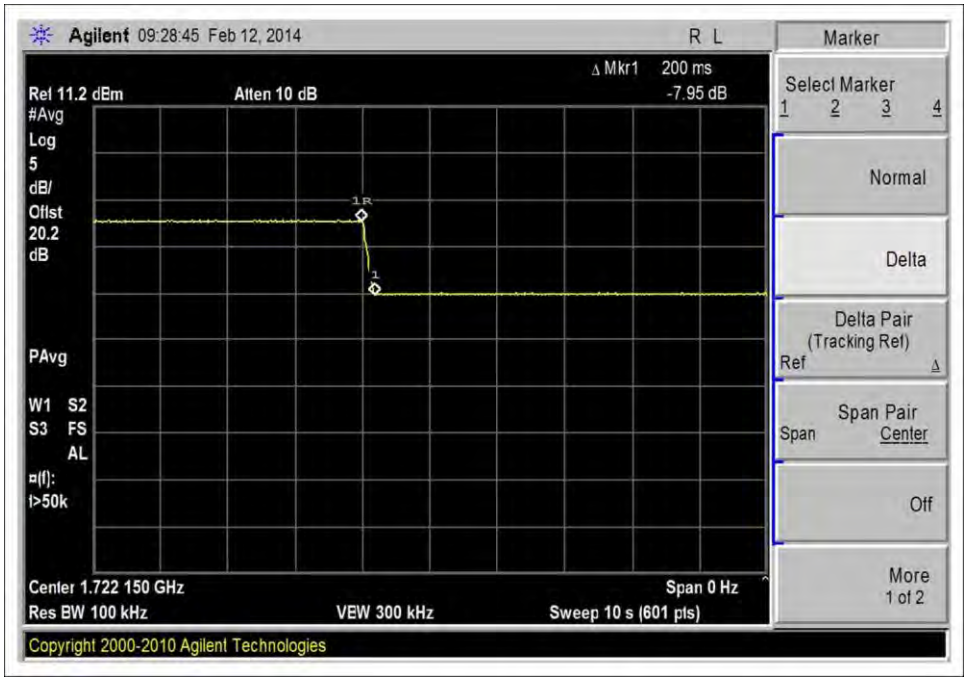
Path loss=20Lgf+20Lgd-27.55				
Band	**f(MHz)**	**d(m)**	**Constant(dB)**	**Path loss(dB)**
PCS(1850-1910)	1850	0.6	27.55	33.4
Cellular(824-849)	824	0.6	27.55	26.3
AWS (1710-1755)	1710	0.6	27.55	32.7

MSCL					
Band	**Path loss (dB)**	**Indoor Antenna Gain(dBi)**	**Indoor Cable Loss(dB)**	**Polarity Loss(dB)**	**MSCL(dB)**
PCS (1850-1910)	33.4	3	0.3	3	33.7
Cellular (824-849)	26.3	1.2	0.3	3	29.8
AWS (1710-1755)	32.7	3	0.3	3	33.0

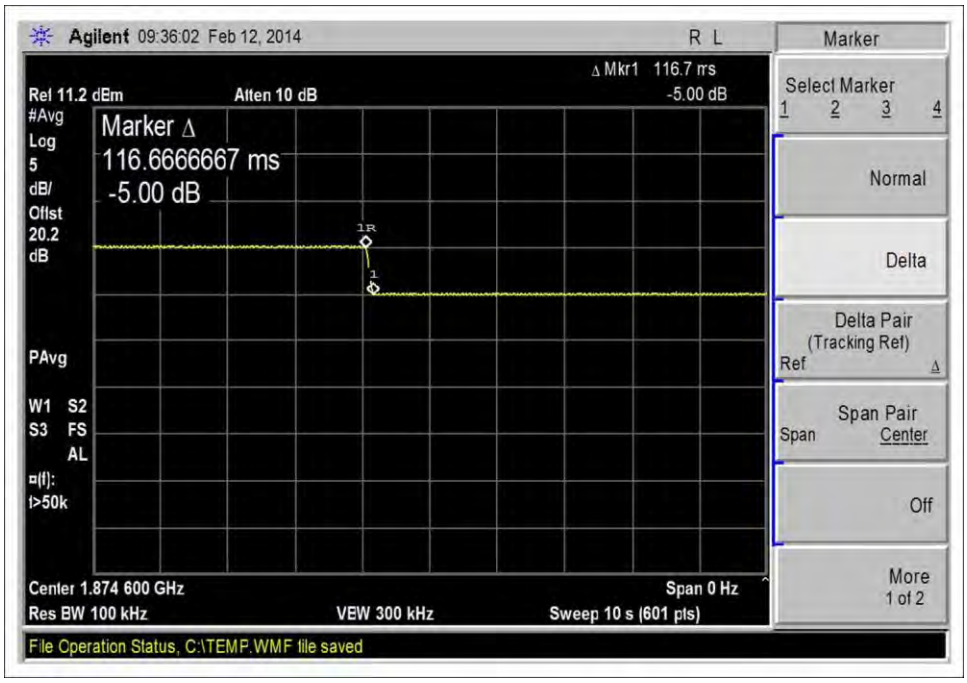

Variable Uplink Booster Gain (MSCL=28.1dB)
Uplink Gain
(dB)
60
40
20
0
-20
-40
-60
-90.0
-80.0
-70.0
-60.0
-50.0
-40.0
-30.0
-20.0
-10.0
RSSI
dBm
Mobile Booster Limit
TX Power Off Limit
698-716MHz UL Data
824-849MHz UL Data
1850-1910MHz UL Data
RSSI Dependent Limit MSLC=28.1dB
Linear (RSSI Dependent Limit MSLC=28.1dB)



UL - 824-849, Variable Uplink Gain Timing

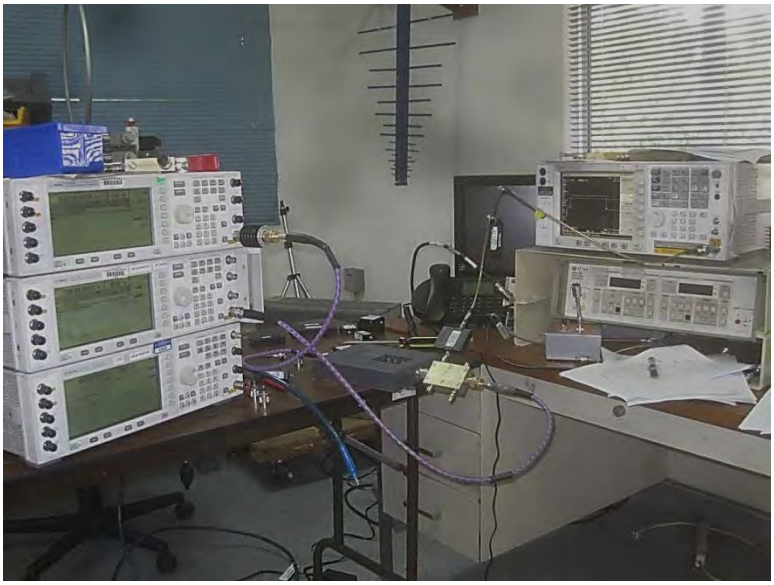


UL - 1710-1755, Variable Uplink Gain Timing



UL - 1850-1910, Variable Uplink Gain Timing

Test Setup Photo(s)



Clause 7.11 Oscillation Detection

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 110 N Olinda Place • Brea CA 92823 • 714-993-6112

Customer: **Cellphone-Mate, Inc.**
Specification: **7.11 Oscillation Detection**
Work Order #: **95353** Date: 2/14/2014
Test Type: **Conducted Emissions** Time: 08:53:16
Equipment: **Mobile Wideband Consumer Signal Booster** Sequence#: 10
Manufacturer: Cellphone-Mate, Inc. Tested By: Don Nguyen
Model: TriFlex-2Go-T 120V 60Hz
S/N: NA

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02945	Cable	32022-2-2909K-36TC	10/30/2013	10/30/2015
	AN02672	Spectrum Analyzer	E4446A	9/4/2012	9/4/2014
	C00082	Coupler	MECA Electronics, Inc	8/21/2013	8/21/2015
	03429	Attenuator	8496B	9/5/2013	9/5/2015
	02475	Attenuator	8494B	6/17/2013	6/17/2015
	03412	Filter	PE8705	8/26/2013	8/26/2015
	03413	Filter	PE8706	8/26/2013	8/26/2015
	03414	Filter	PE8707	8/26/2013	8/26/2015
	03415	Filter	PE8708	8/26/2013	8/26/2015
	03447	Filter	PE8710	9/20/2013	9/20/2015
	03448	Filter	PE8711	9/20/2013	9/20/2015
	03446	Filter	4FV50-707/H18-O/O	1/6/2014	1/6/2016
	03467	Filter	4FV50-731/H30-O/O	1/6/2014	1/6/2016
	03468	Filter	4CS10-781.5/E12.2-O/O	1/6/2014	1/6/2016
	03469	Filter	4CS10-751.5/E12-O/O	1/6/2014	1/6/2016

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
Mobile Wideband Consumer Signal Booster*	Cellphone-Mate, Inc.	TriFlex-2Go-T	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Power Supply	SureCall	GFP451DA-0945-1	1308-0000325

Test Conditions / Notes:

The equipment under test (EUT) is placed on the table top. EUT set at maximum gain for all bands. Evaluation performed at the Outside (Donor) and Inside (Server) antenna port. EUT is powered by 9V power supply.

UL 824-849
DL 869-894

UL 1850-1910
DL 1930-1990

UL 1710-1755
DL 2110-2155

Test procedure: The test was performed in accordance with section 7.11 of the FCC Publication: 935210 D03 Signal Booster Measurements v01r01: January 22, 2014

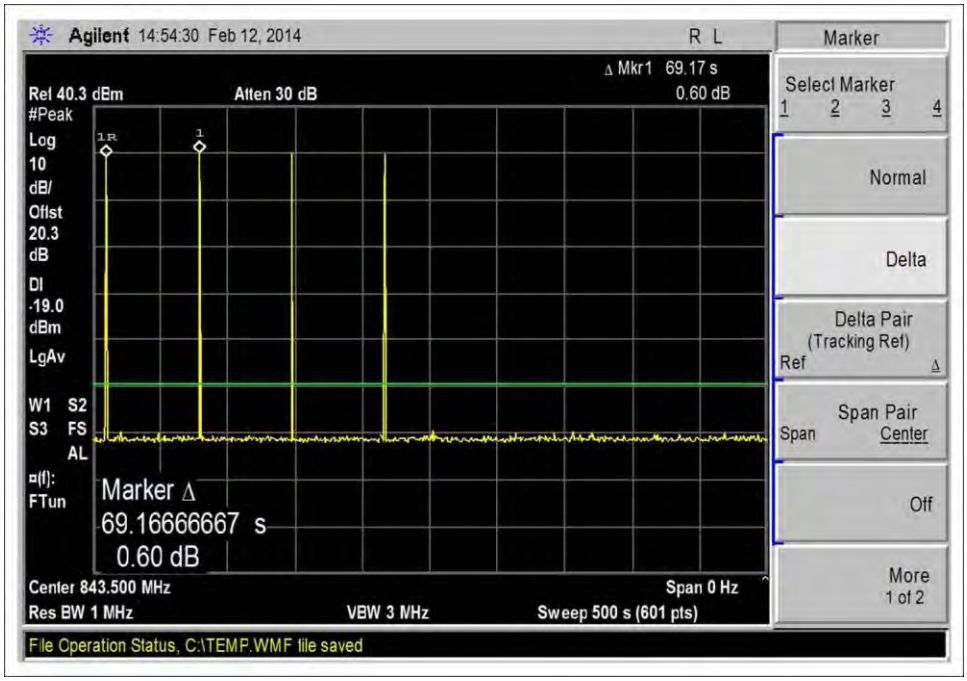
Temperature: 19°C, Humidity: 36%, Pressure: 100.1kPa

Site D

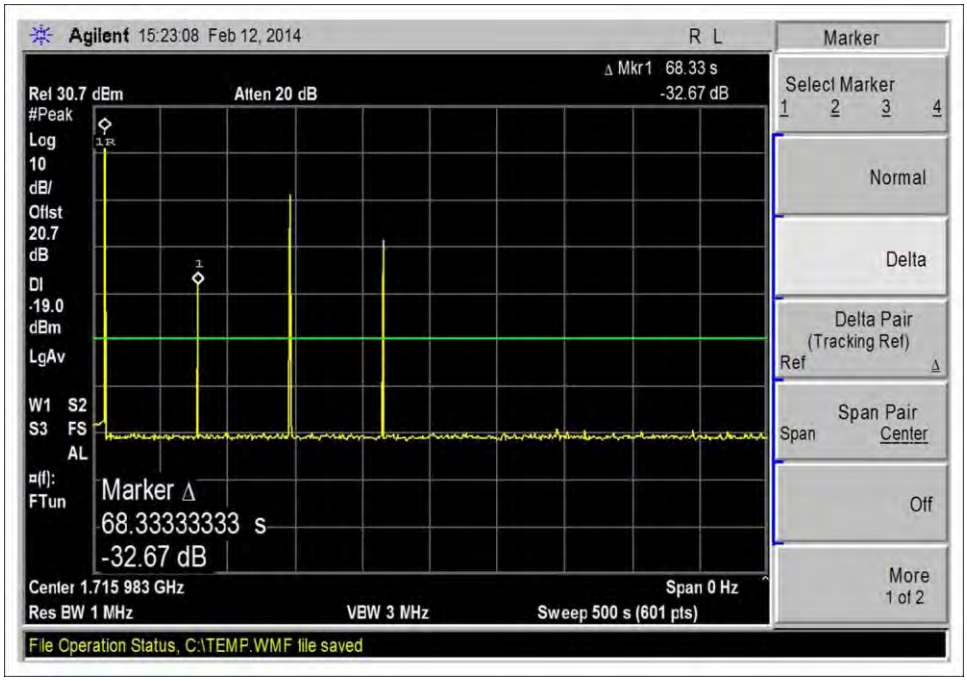
Summary of Results

Pass: All oscillations detection and mitigations occur within 0.3 seconds in uplink bands and within 1 second in the downlink bands.
The booster continues to mitigation at least 1 minute before restarting. After 3 restarts, the booster does not resume operation until manually reset.

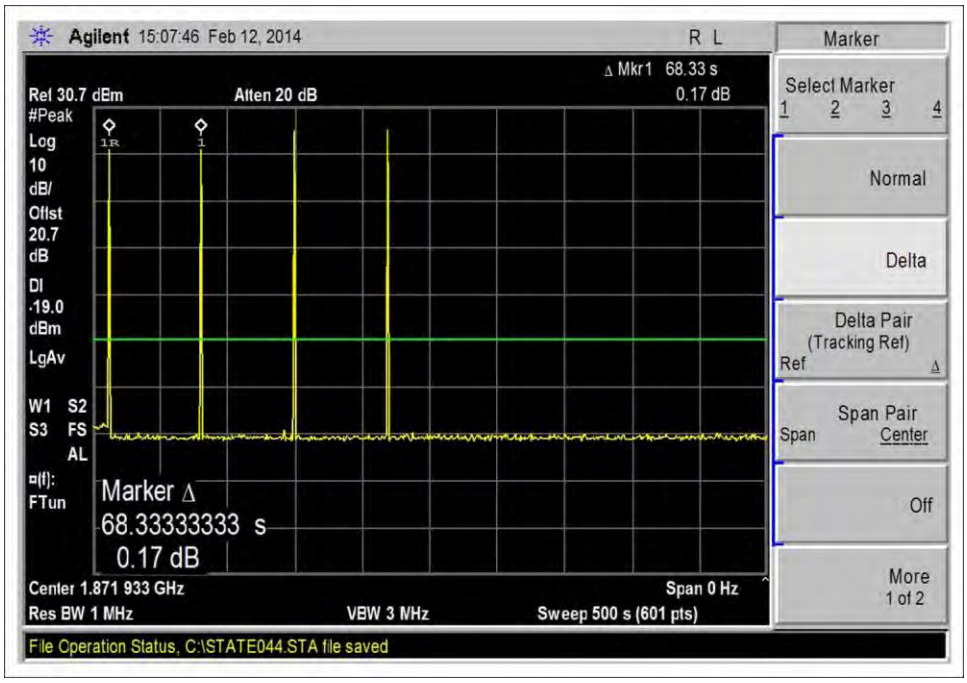
Test Data



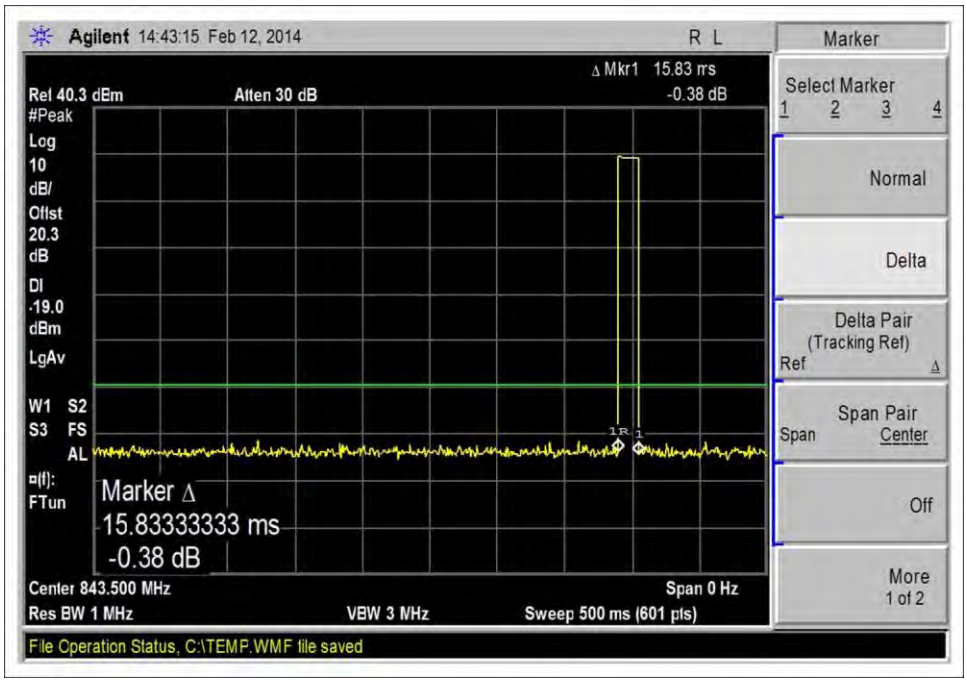
UL - 824-849, Mitigation



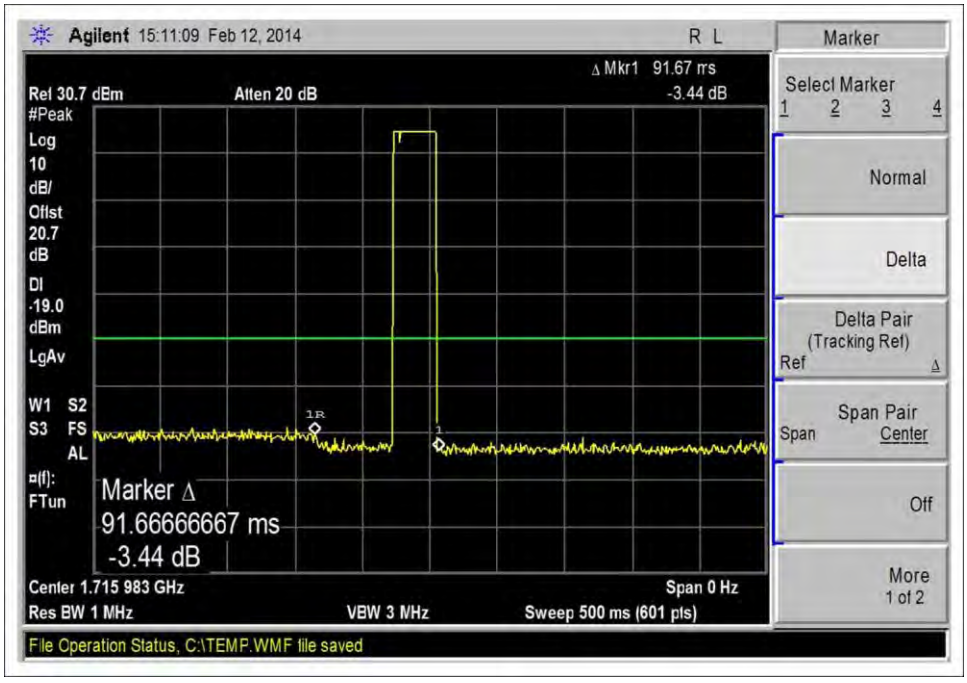
UL - 1710-1755, Mitigation



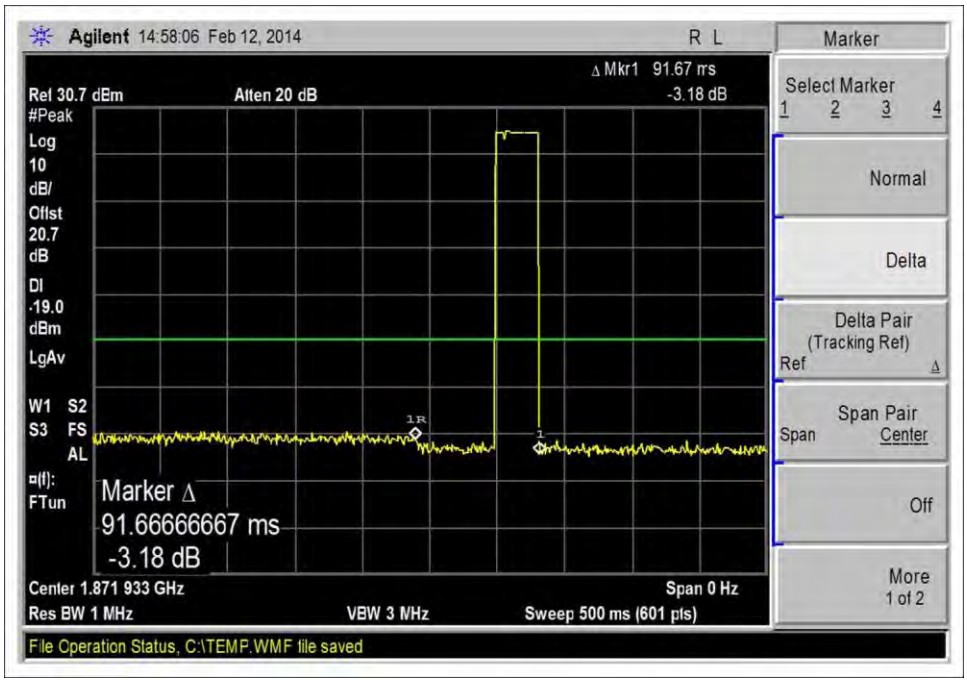
UL - 1850-1910, Mitigation



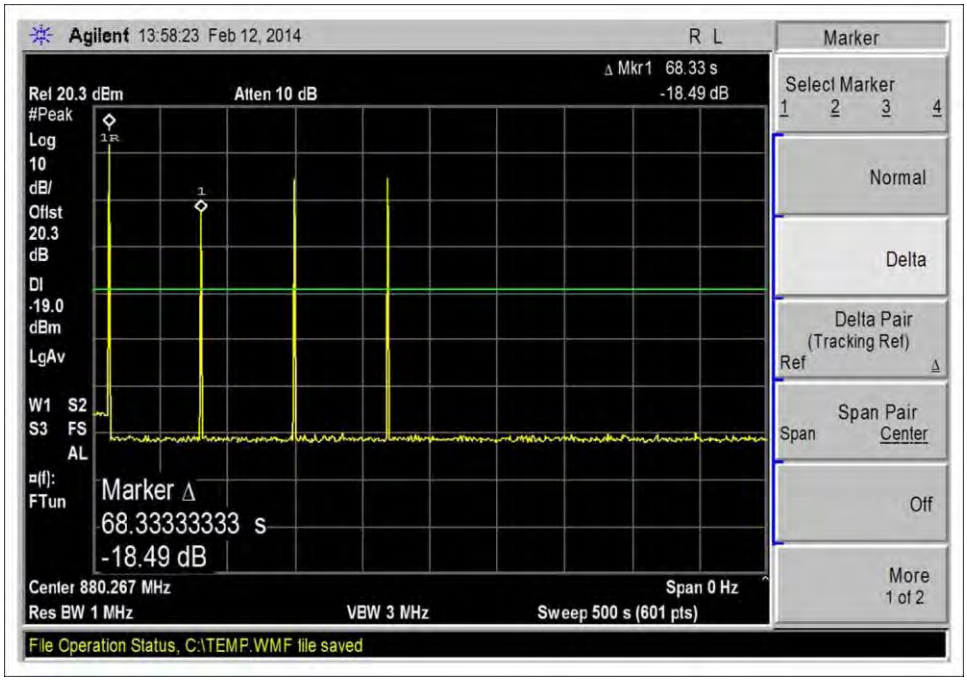
UL - 824-849, Oscillation Detection



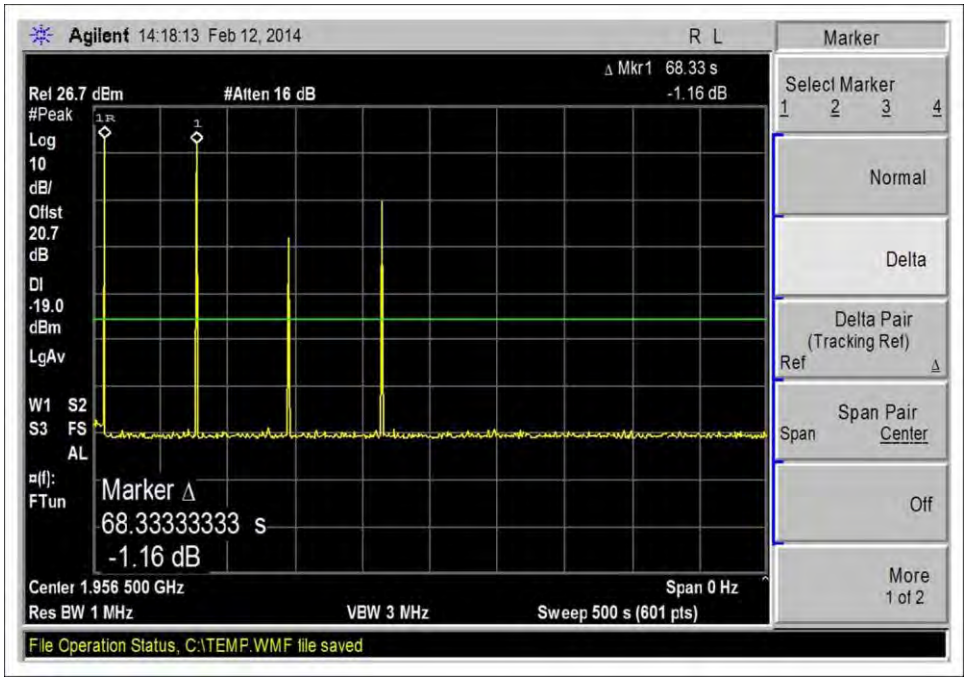
UL - 1710-1755, Oscillation Detection



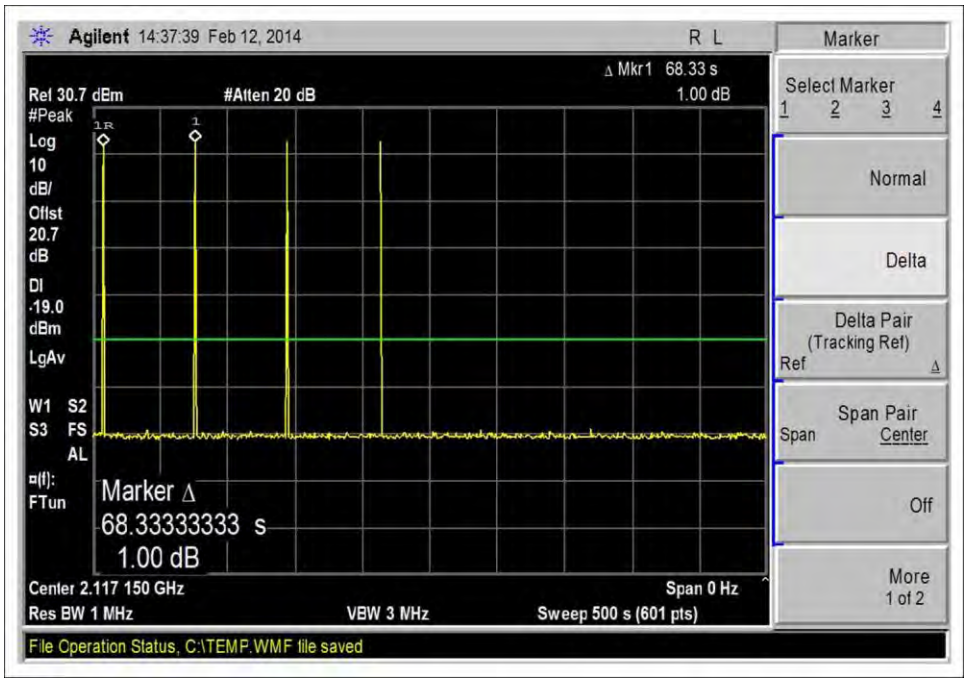
UL - 1850-1910, Oscillation Detection



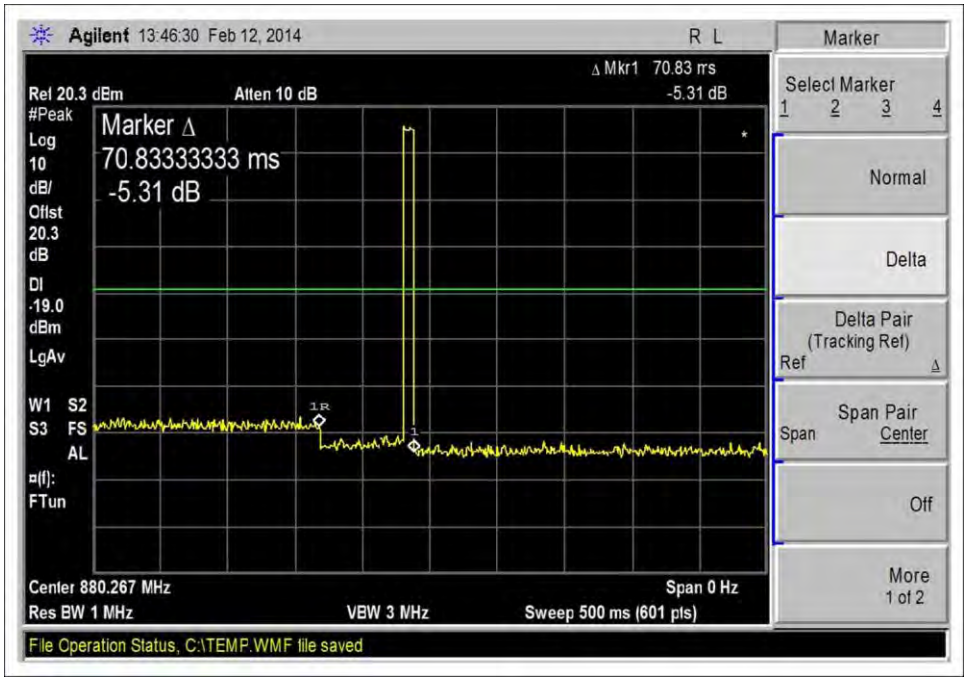
UL- 824-849, Mitigation



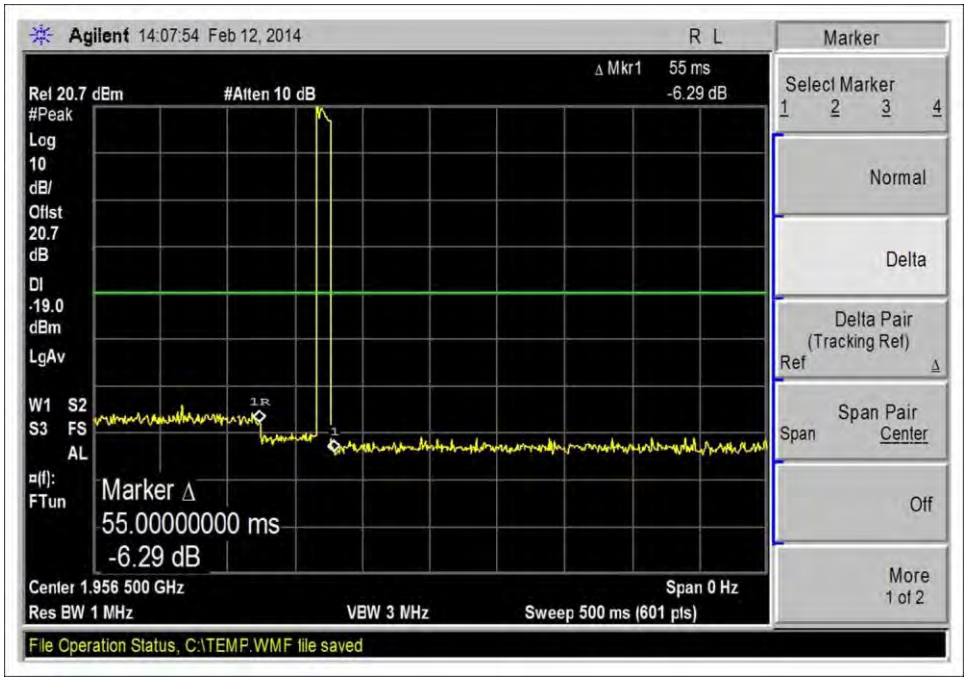
UL- 1710-1755, Mitigation



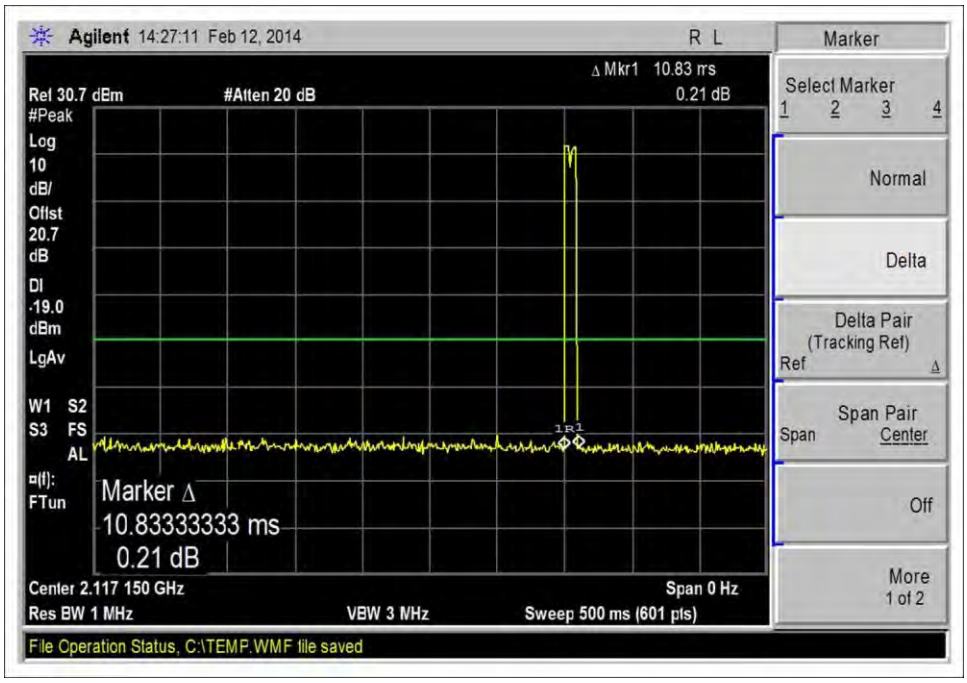
UL - 1850-1910, Mitigation



UL - 824-849, Oscillation Detection



DL - 1930-1990, Oscillation Detection



UL - 1850-1910, Oscillation Detection

Test Setup Photo(s)

Clause 7.13 Spectrum Block Filter

Test Engineer:	Don Nguyen	**Test Procedure:**	Clause 7.13
Test Level:	NA		
Declarations: Section 7.13 not applicable because the EUT does not utilize spectrum block filtering.			