



TEST REPORT

Test Report No. : UL-RPT-RP10014945JD11A

Manufacturer : Sony Mobile Communications AB

Type No. : PM-0460-BV

FCC ID : PY7PM-0460

Technology : LTE – Band 5

Test Standard(s) : FCC Part 22 Subpart H

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2. The results in this report apply only to the sample(s) tested.
3. The sample tested is in compliance with the above standard(s).
4. The test results in this report are traceable to the national or international standards.
5. Version 1.0

Date of Issue: 19 July 2013

Checked by:

Sarah Williams
WiSE Laboratory Engineer

Issued by :

pp

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This laboratory is accredited by UKAS.
The tests reported herein have been
performed in accordance with its' terms
of accreditation.

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1. Customer Information

Company Name:	Sony Mobile Communications AB
Address:	Nya Vattentornet Lund SE-221 88 Sweden

2. Summary of Testing

2.1. General Information

Specification Reference:	47CFR22
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 22 Subpart H (Public Mobile Services)
Site Registration:	FCC: 209735
Location of Testing:	UL VS LTD, Unit 3 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom
Test Dates:	27 June 2013 to 14 July 2013

2.2. Summary of Test Results

FCC Reference (47CFR)	Measurement	Result
Part 22.913(a)(2)	Transmitter Output Power (ERP)	✓
Part 2.1049	Transmitter Occupied Bandwidth	✓
Part 2.1053 / 22.917	Transmitter Out of Band Radiated Emissions	✓
Part 2.1053 / 22.917	Transmitter Band Edge Radiated Emissions	✓
Part 2.1055 / 22.355	Transmitter Frequency Stability (Temperature and Voltage Variation)	✓

Key to Results

✓ = Complied ✘ = Did not comply

2.3. Methods and Procedures

Reference:	ANSI/TIA-603-C-2004
Title:	Land Mobile Communications Equipment, Measurements and performance Standards
Reference:	FCC KDB 971168 D01 v02r01, 7 June 2013
Title:	Measurement Guidance for Certification of Licensed Digital Transmitters

2.4. Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

Brand Name:	Sony
IMEI:	004402451263820 (<i>Radiated Sample</i>)
Serial Number:	CB5124U6EF
Hardware Version Number:	AP2
Software Version Number:	14.1.G.1.241
FCC ID:	PY7PM-0460

Brand Name:	Sony
IMEI:	004402451256097 (<i>Conducted Sample #1</i>)
Serial Number:	CB5124TWQ9
Hardware Version Number:	AP2
Software Version Number:	14.1.G.1.241
FCC ID:	PY7PM-0460

Brand Name:	Sony
IMEI:	004402451254886 (<i>Conducted Sample #2</i>)
Serial Number:	CB5124TWLF
Hardware Version Number:	AP2
Software Version Number:	14.1.G.1.241
FCC ID:	PY7PM-0460

Brand Name:	Sony
Description:	AC Charger
Model Name or Number:	EP880

Brand Name:	Generic
Description:	MHL Cable
Model Name or Number:	Not marked or stated

Brand Name:	Sony
Description:	MHL Adaptor
Model Name or Number:	IM750

Identification of Equipment Under Test (EUT) (continued)

Brand Name:	Sony
Description:	Magnetic Plug
Model Name or Number:	EC801

Brand Name:	Sony
Description:	USB cable
Model Name or Number:	EC21

Brand Name:	Sony
Description:	PHF
Model Name or Number:	MH750

3.2. Description of EUT

The equipment under test (EUT) is a model of GSM/UMTS/LTE mobile phone with integrated antenna and inbuilt Li-Polymer battery.

The EUT supports GSM 850/900/1800/1900MHz bands, WCDMA FDD bands 1/2/4/5/8 and LTE FDD bands 1/2/3/4/5/7/8/17. It also supports GPRS service with multi-slots class 33 and EGPRS service with multi-slots class 33 too. The HSDPA and HSUPA features are also supported. It has MP3, camera, FM radio, USB memory, GPS receiver, NFC, Mobile High-Definition Link (MHL), Bluetooth (EDR and Bluetooth 4.0), WLAN (802.11 a/b/g/n/ac) and Wi-Fi hotspot functions.

3.3. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.4. Additional Information Related to Testing

Tested Technology:	LTE Band 5		
Type of Equipment	Transceiver		
Channel Bandwidth(s):	1.4, 3, 5 & 10 MHz		
Modulation Type:	QPSK & 16QAM		
Duty Cycle:	100%		
Antenna Gain:	-6.18 dBd		
Power Supply Requirement:	Nominal	3.8 V	
Transmit Frequency Range:	824 MHz to 849 MHz		
Channels Tested:	Channel Bandwidth (MHz)	N_{ul}	Frequency of Uplink (MHz)
Bottom Channel	1.4	20407	824.7
	3	20415	825.5
	5	20425	826.5
	10	20450	829.0
Middle Channel	All	20525	836.5
Top Channel	1.4	20643	848.3
	3	20635	847.5
	5	20625	846.5
	10	20600	844.0

3.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Brand Name:	Generic
Description:	2 GB Micro SD Card
Model Name or Number:	Not marked or stated

Brand Name:	Logik
Description:	22" High Definition Television
Model Name or Number:	L22FE12A
Serial Number:	1309020661

Brand Name:	Not marked or stated
Description:	Voltage variation jig
Model Name or Number:	Not marked or stated
Serial Number:	310119

4. Operation and Monitoring of the EUT during Testing

4.1. Operating Modes

The EUT was tested in the following operating mode(s):

- Transmit Mode - The EUT was set to transmit with maximum output power using the required channel bandwidth. QPSK and 16QAM modulations were both tested, with Resource Block allocation as detailed in section 4.3.

4.2. Configuration and Peripherals

The EUT was tested in the following configuration(s):

- The EUT was connected to a Rohde and Schwarz CMW500 LTE system simulator, operating in a transceiver mode.
- Transmitter radiated spurious emission tests were performed with the following configurations, employing all available accessories:
 - Configuration 1 – Handset with the AC charger, USB Cable, MHL cable (terminated in to a television), MHL adaptor and PHF
 - Configuration 2 – Handset with the AC charger, Magnetic plug and PHF

Pre-scans below 1 GHz were performed in both configurations 1 and 2, with final measurements limited to the configuration which provided worst case results. Pre-scans above 1 GHz were performed in the configuration that employed the most accessories (Configuration 1), with any final measurements being performed in both configurations.

- Transmitter radiated spurious emissions tests were performed with the EUT was set to transmit with a 10 MHz channel bandwidth with QPSK modulation applied and 1 resource block with 0 offset. This was found to be the worst case modulation scheme with regards to emissions after preliminary investigations and, as this mode emits the highest transmit output power level, it was deemed to be the worst case.
- The EUT was supplied with an RF conducted port and external RF cable, to allow conducted measurements to be performed where necessary.
- Testing at temperature and voltage extremes was performed using a voltage variation jig and adaptor supplied by the Customer. The adaptor plugs onto the handset in place of the battery connector.
- The voltage variation jig and adaptor were used for conducted measurements set at the nominal voltage.
- The conducted sample with IMEI 004402451256097 was used for output power and occupied bandwidth measurements.
- The conducted sample with IMEI 004402451254886 was used for frequency stability measurements.
- The radiated sample with IMEI 004402451263820 was used for all radiated measurements.

4.3. Resource Block Allocation

Channel Bandwidth (MHz)	Maximum No. of Resource Blocks	Resource Block / Offset Number							
		Sub Test 1		Sub Test 2		Sub Test 3		Sub Test 4	
		RB	Offset	RB	Offset	RB	Offset	RB	Offset
1.4	6	1	0	1	5	3	2	6	0
3	15	1	0	1	14	8	4	15	0
5	25	1	0	1	24	12	6	25	0
10	50	1	0	1	49	25	12	50	0

Transmitter Output Power was carried out using sub tests 1, 2, 3 and 4, with both QPSK and 16QAM modulation schemes.

Transmitter Occupied Bandwidth was carried out using sub tests 3 and 4, for both QPSK and 16QAM modulation schemes.

Transmitter radiated spurious emissions tests were performed with the EUT was set to transmit with a 10 MHz channel bandwidth with QPSK modulation applied and 1 resource block with 0 offset. This was found to be the worst case modulation scheme with regards to emissions after preliminary investigations and, as this mode emits the highest transmit output power level, it was deemed to be the worst case.

Transmitter Radiated Band Edge Emissions was tested with sub test 4 on all supported channel bandwidths, using QPSK and 16QAM modulations with the maximum resource blocks settings.

Transmitter Frequency Stability test was carried out with sub test 4, with a channel bandwidth of 1.4 MHz only.

5. Measurements, Examinations and Derived Results

5.1. General Comments

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to *Section 6. Measurement Uncertainty* for details.

In accordance with UKAS requirements all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

5.2. Test Results

5.2.1. Transmitter Output Power (ERP)

Test Summary:

Test Engineer:	Ben Mercer	Test Dates:	02 July 2013 & 03 July 2013
Test Sample IMEI:	004402451256097		

FCC Reference:	Part 22.913(a)(2)
Test Method Used:	As detailed in FCC KDB 971168 D01 Section 5.2.1

Environmental Conditions:

Temperature (°C):	23 to 25
Relative Humidity (%):	38 to 40

Note(s):

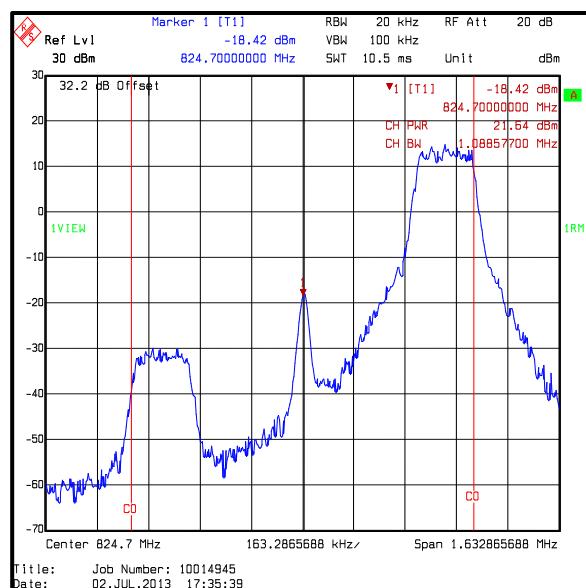
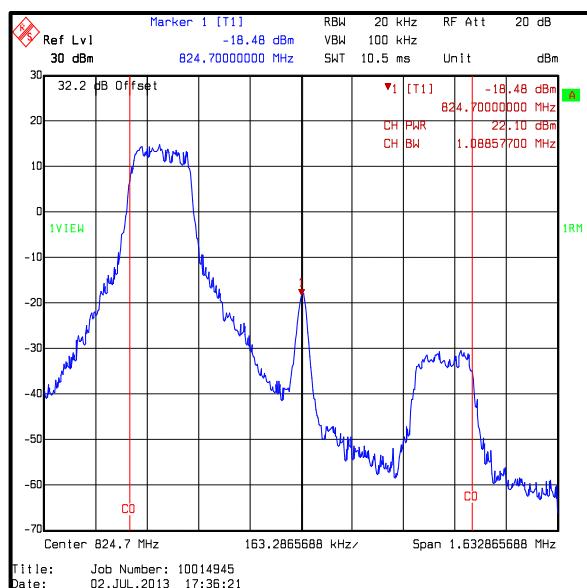
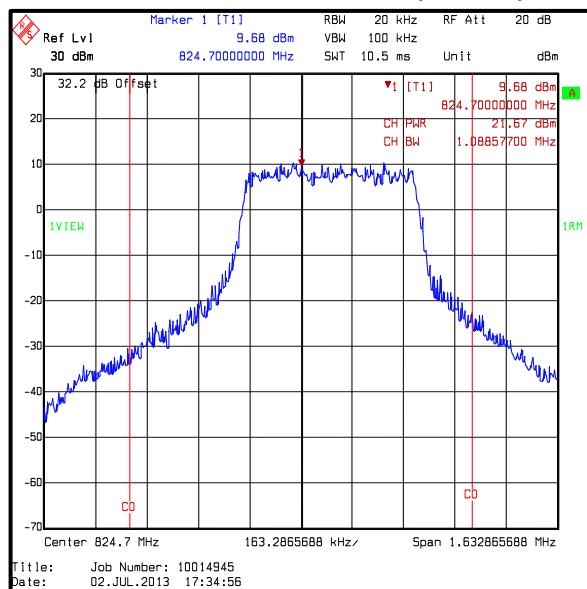
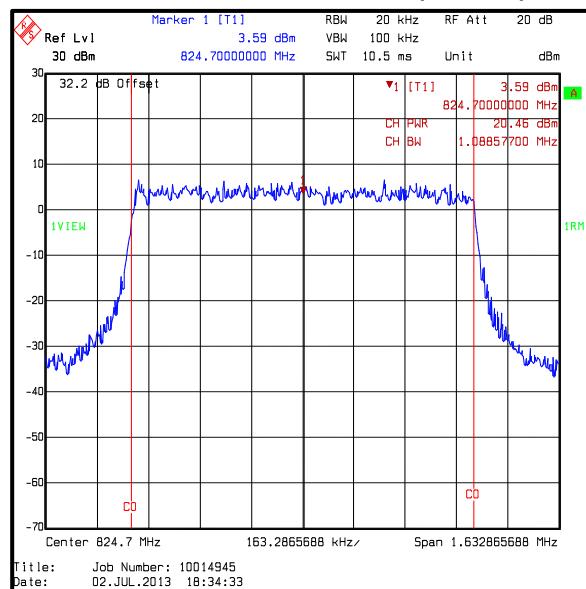
1. The Customer stated a maximum antenna gain of -4.03 dBi, as the limit is ERP the gain in dBi has been converted. The dBd has been calculated as.

$$-4.03 \text{ dBi} - 2.15 \text{ dB} = -6.18 \text{ dBd}$$

2. Measurements were performed with the EUT transmitting with QPSK and 16QAM modulation schemes, with resource blocks settings as detailed in section 4.3 of this report.

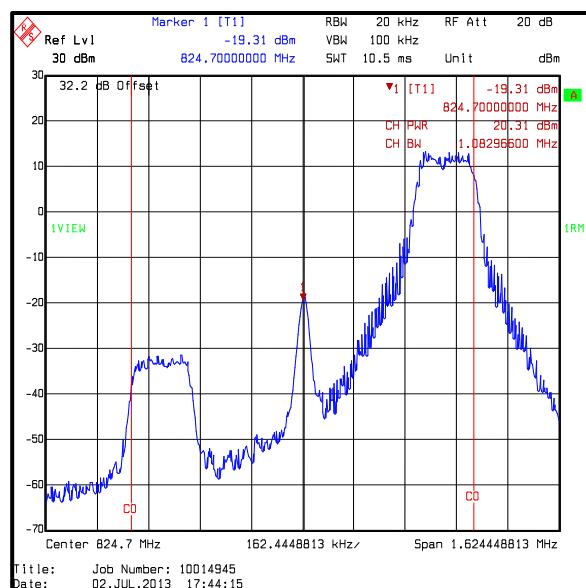
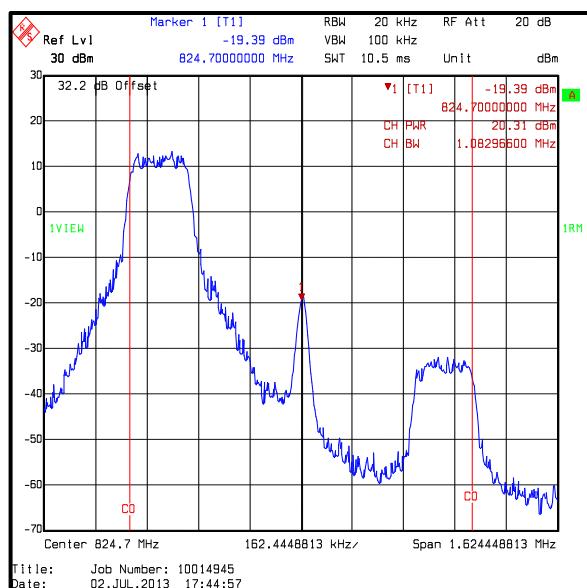
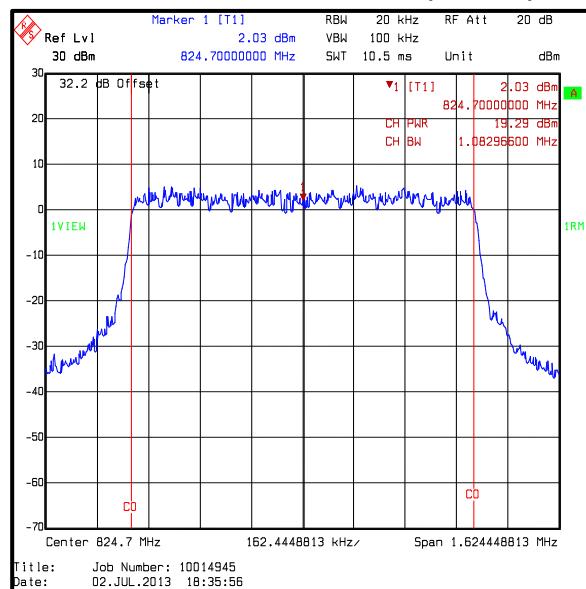
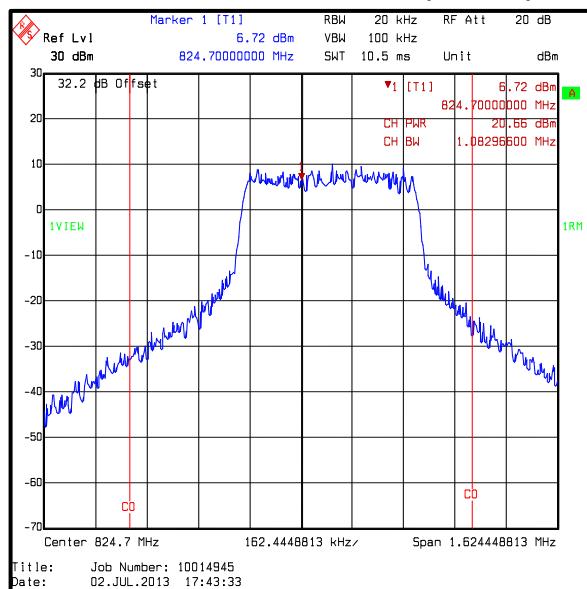
Transmitter Output Power (ERP) (continued)Results: 1.4 MHz Channel Bandwidth / Bottom Channel / QPSK

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
824.7	1	0	22.1	-6.18	15.92	38.5	22.58	Complied
824.7	1	5	21.6	-6.18	15.42	38.5	23.08	Complied
824.7	3	2	21.7	-6.18	15.52	38.5	22.98	Complied
824.7	6	0	20.5	-6.18	14.32	38.5	24.18	Complied

**QPSK / 1 Resource Block (0 offset)****QPSK / 1 Resource Block (5 offset)****QPSK / 3 Resource Blocks (2 offset)****QPSK / 6 Resource Blocks (0 offset)**

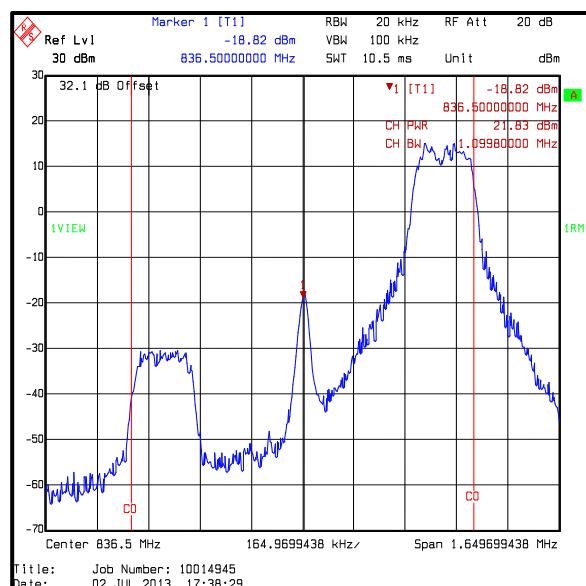
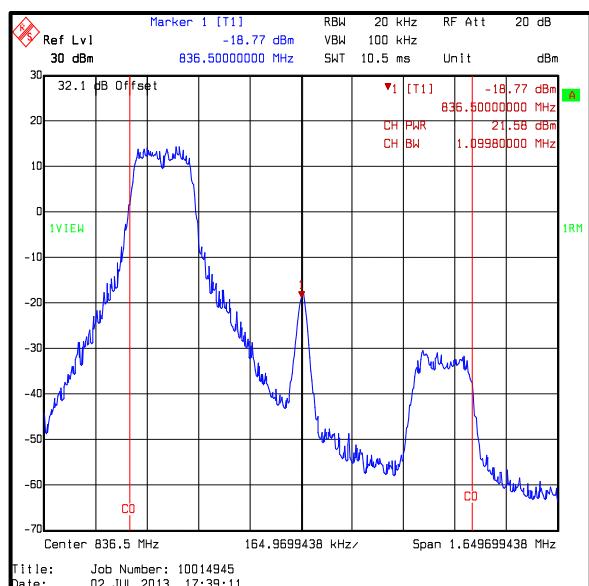
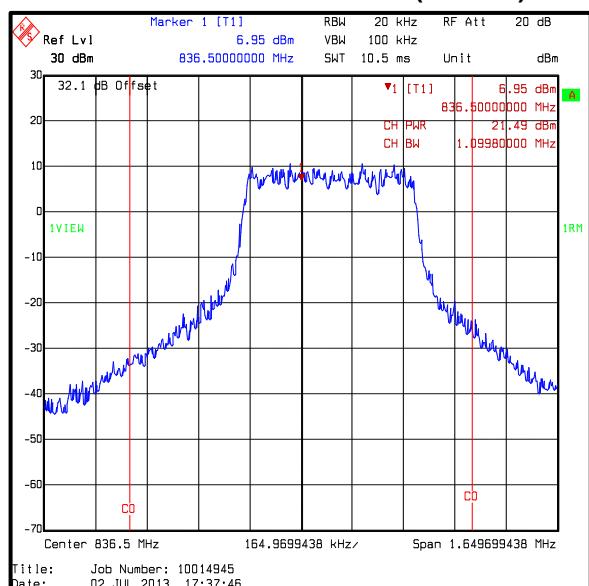
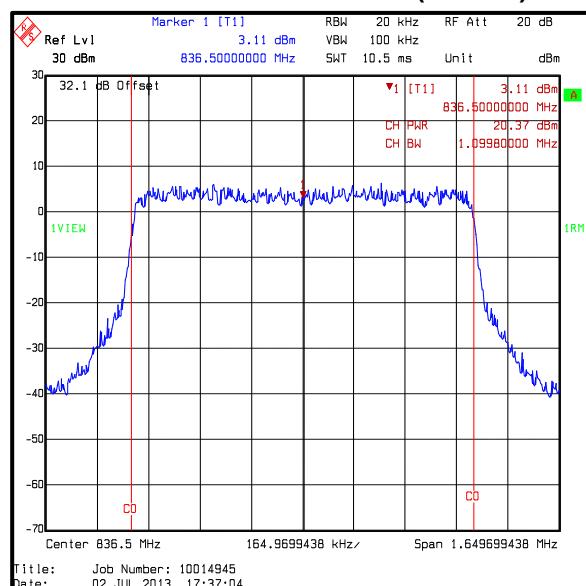
Transmitter Output Power (ERP) (continued)**Results: 1.4 MHz Channel Bandwidth / Bottom Channel / 16QAM**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
824.7	1	0	20.3	-6.18	14.12	38.5	24.38	Complied
824.7	1	5	20.3	-6.18	14.12	38.5	24.38	Complied
824.7	3	2	20.7	-6.18	14.52	38.5	23.98	Complied
824.7	6	0	19.3	-6.18	13.12	38.5	25.38	Complied

**16QAM / 1 Resource Block (0 offset)****16QAM / 3 Resource Blocks (2 offset)****16QAM / 6 Resource Blocks (0 offset)**

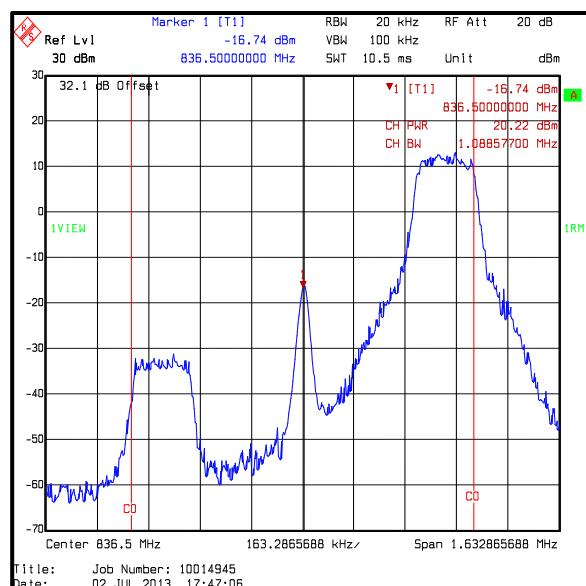
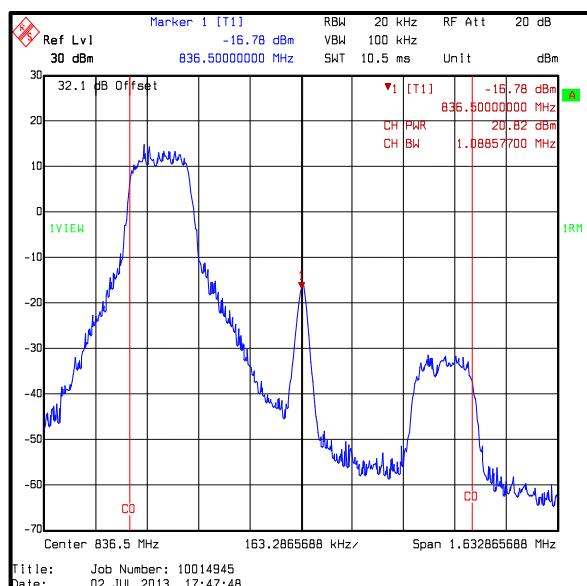
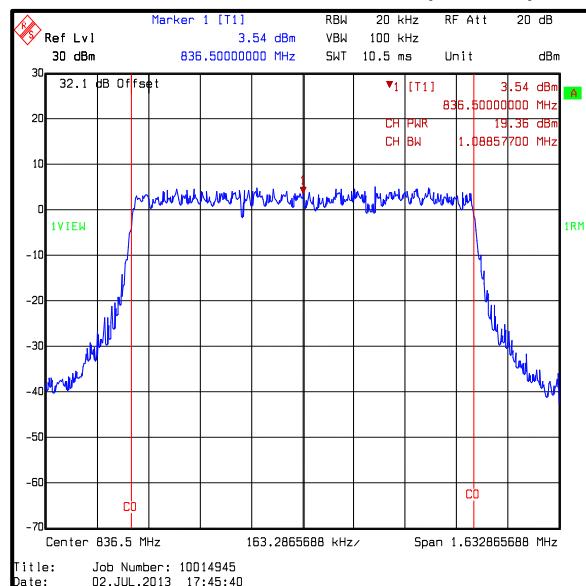
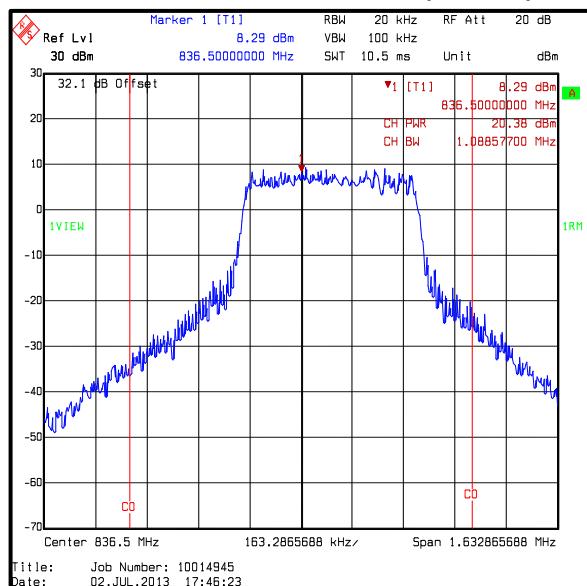
Transmitter Output Power (ERP) (continued)**Results: 1.4 MHz Channel Bandwidth / Middle Channel / QPSK**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
836.5	1	0	21.6	-6.18	15.42	38.5	23.08	Complied
836.5	1	5	21.8	-6.18	15.62	38.5	22.88	Complied
836.5	3	2	21.5	-6.18	15.32	38.5	23.18	Complied
836.5	6	0	20.4	-6.18	14.22	38.5	24.28	Complied

**QPSK / 1 Resource Block (0 offset)****QPSK / 1 Resource Block (5 offset)****QPSK / 3 Resource Blocks (2 offset)****QPSK / 6 Resource Blocks (0 offset)**

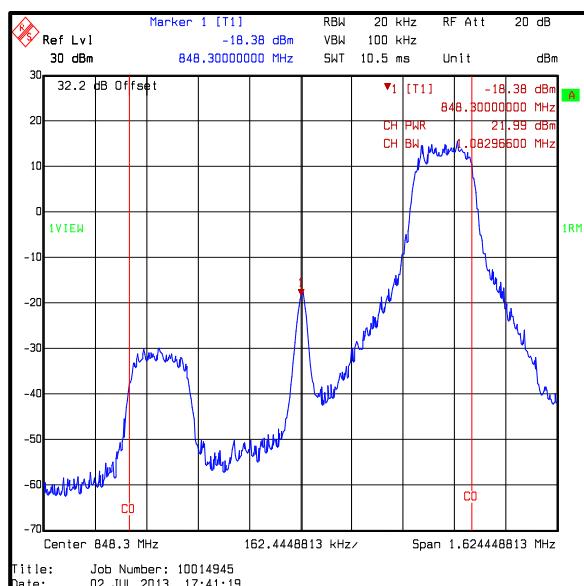
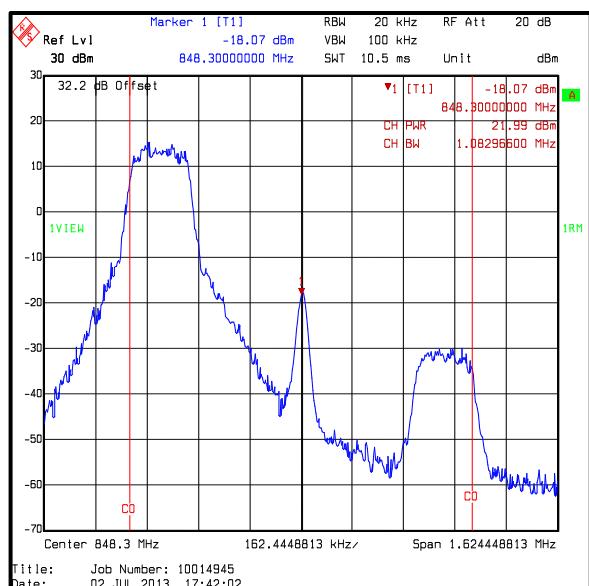
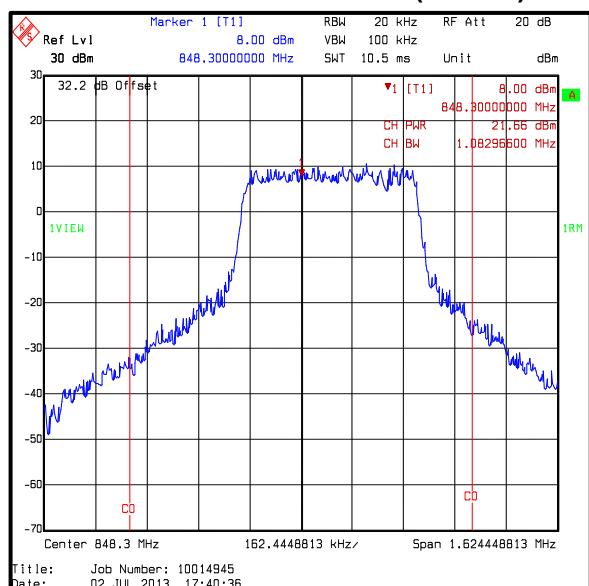
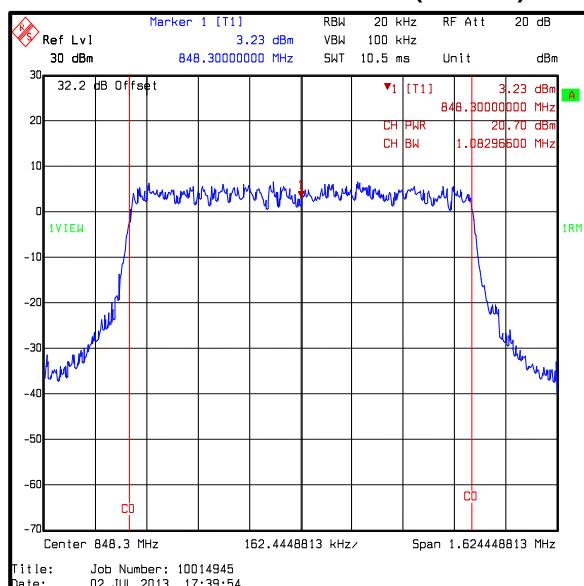
Transmitter Output Power (ERP) (continued)Results: 1.4 MHz Channel Bandwidth / Middle Channel / 16QAM

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
836.5	1	0	20.8	-6.18	14.62	38.5	23.88	Complied
836.5	1	5	20.2	-6.18	14.02	38.5	24.48	Complied
836.5	3	2	20.4	-6.18	14.22	38.5	24.28	Complied
836.5	6	0	19.4	-6.18	13.22	38.5	25.28	Complied

**16QAM / 1 Resource Block (0 offset)****16QAM / 3 Resource Blocks (2 offset)****16QAM / 6 Resource Blocks (0 offset)**

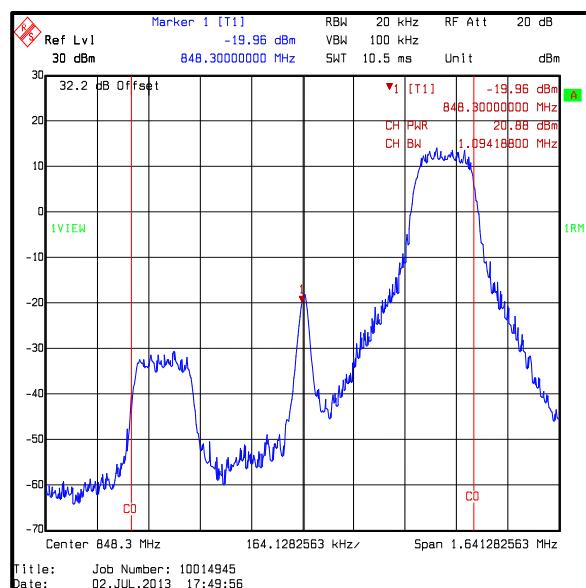
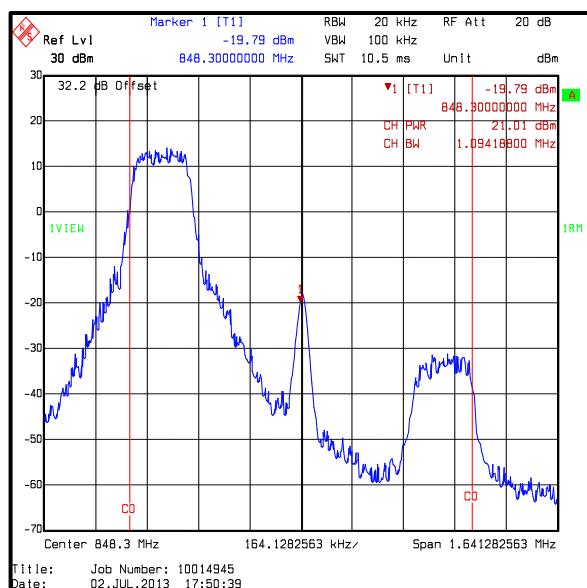
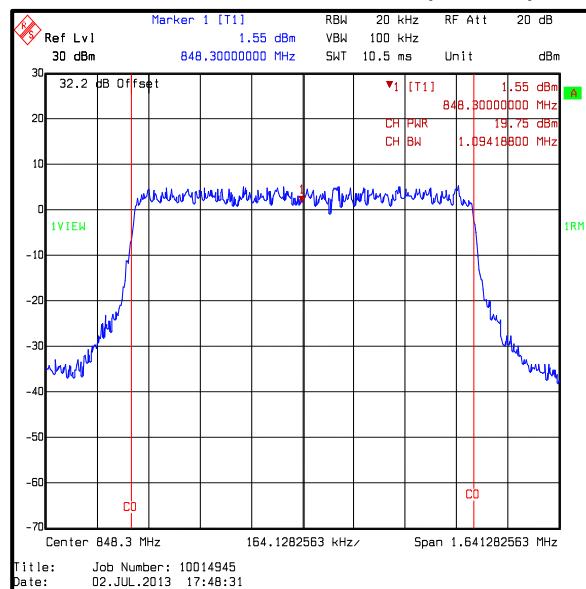
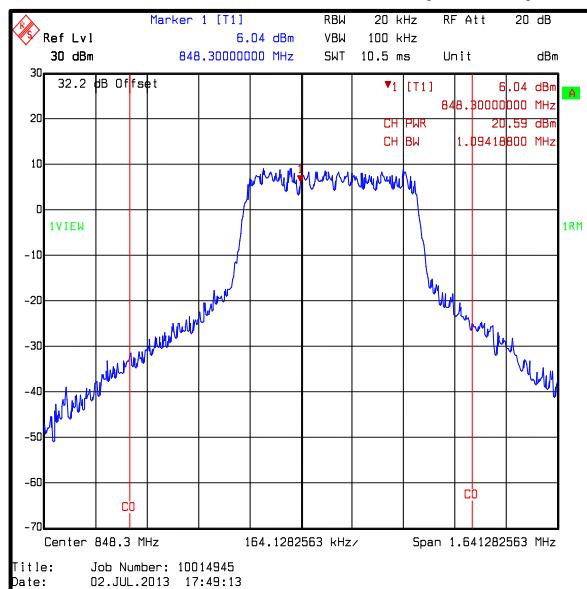
Transmitter Output Power (ERP) (continued)Results: 1.4 MHz Channel Bandwidth / Top Channel / QPSK

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
848.3	1	0	22.0	-6.18	15.82	38.5	22.68	Complied
848.3	1	5	22.0	-6.18	15.82	38.5	22.68	Complied
848.3	3	2	21.7	-6.18	15.52	38.5	22.98	Complied
848.3	6	0	20.7	-6.18	14.52	38.5	23.98	Complied

**QPSK / 1 Resource Block (0 offset)****QPSK / 1 Resource Block (5 offset)****QPSK / 3 Resource Blocks (2 offset)****QPSK / 6 Resource Blocks (0 offset)**

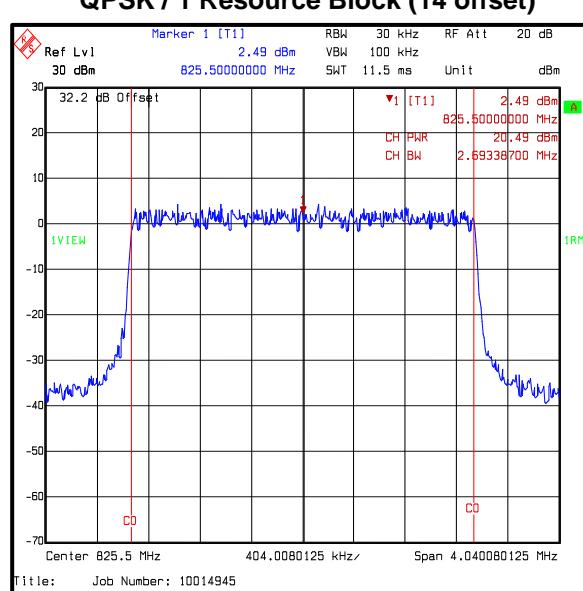
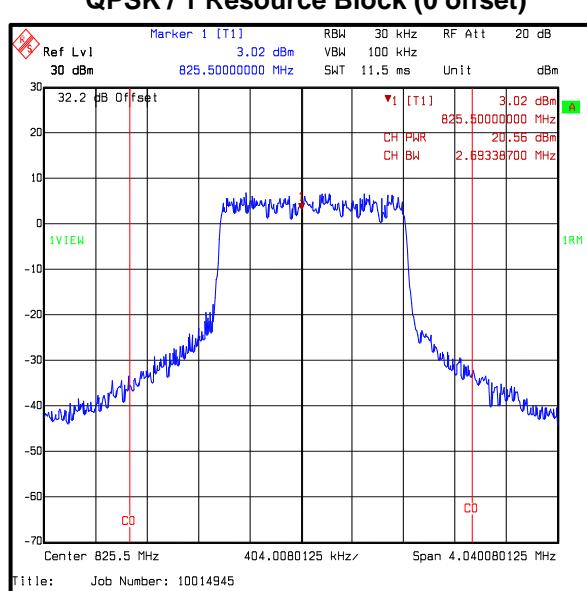
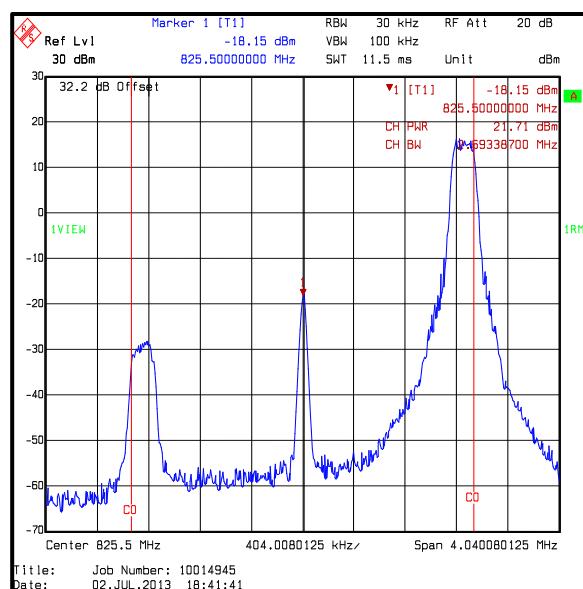
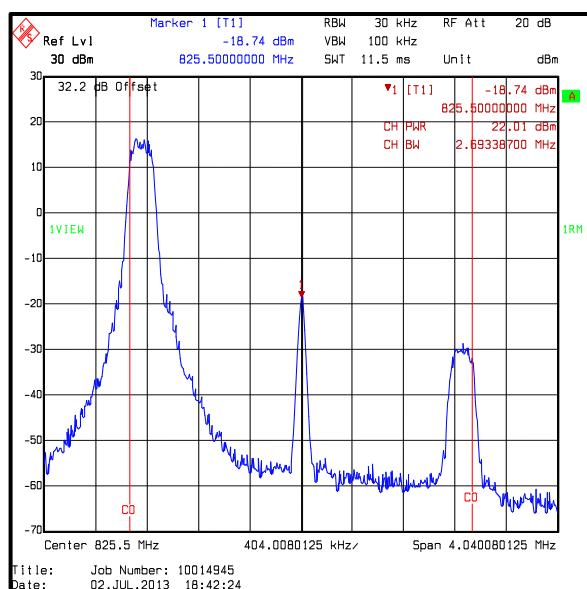
Transmitter Output Power (ERP) (continued)Results: 1.4 MHz Channel Bandwidth / Top Channel / 16QAM

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
848.3	1	0	21.0	-6.18	14.82	38.5	23.68	Complied
848.3	1	5	20.9	-6.18	14.72	38.5	23.78	Complied
848.3	3	2	20.6	-6.18	14.42	38.5	24.08	Complied
848.3	6	0	19.8	-6.18	13.62	38.5	24.88	Complied

**16QAM / 1 Resource Block (0 offset)****16QAM / 3 Resource Blocks (2 offset)****16QAM / 6 Resource Blocks (0 offset)**

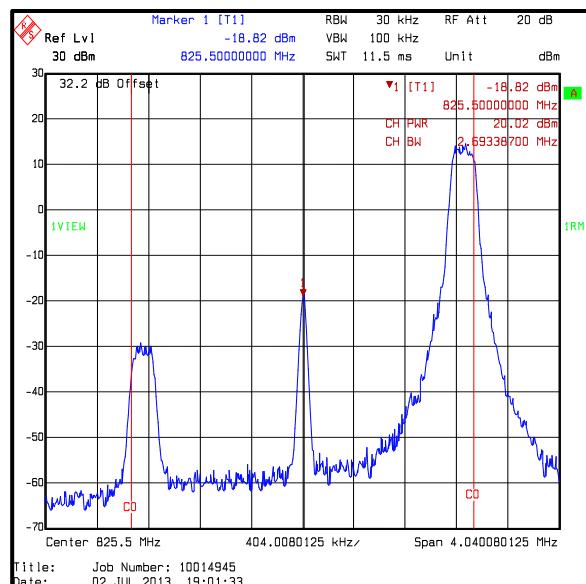
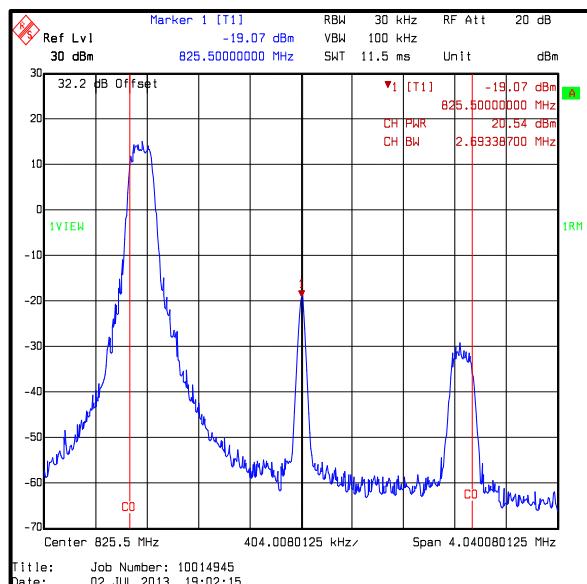
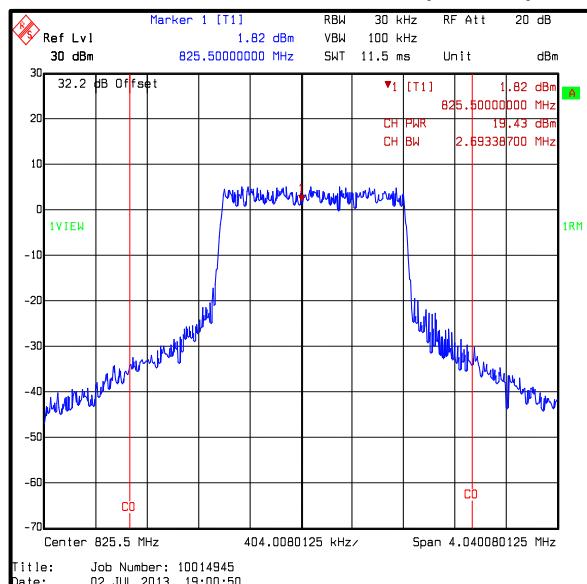
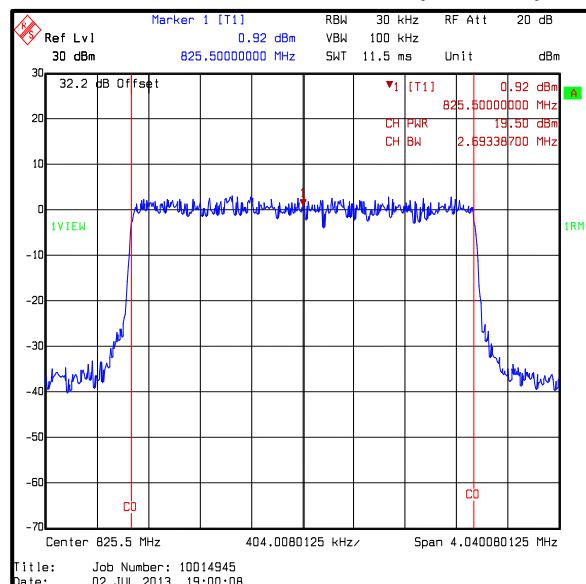
Transmitter Output Power (ERP) (continued)**Results: 3 MHz Channel Bandwidth / Bottom Channel / QPSK**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
825.5	1	0	22.0	-6.18	15.82	38.5	22.68	Complied
825.5	1	14	21.7	-6.18	15.52	38.5	22.98	Complied
825.5	8	4	20.6	-6.18	14.42	38.5	24.08	Complied
825.5	15	0	20.5	-6.18	14.32	38.5	24.18	Complied



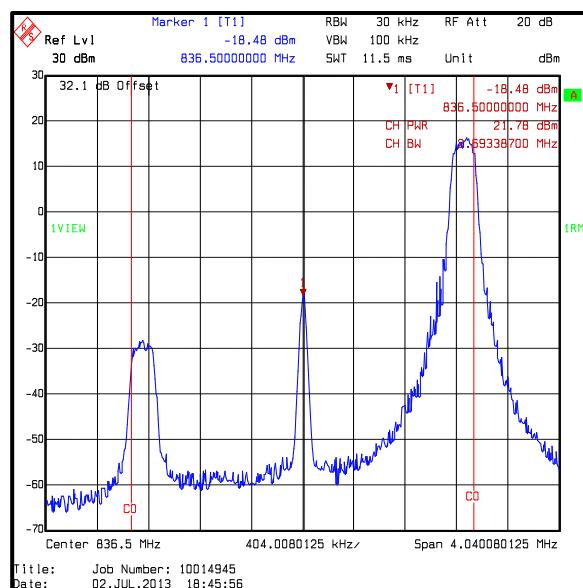
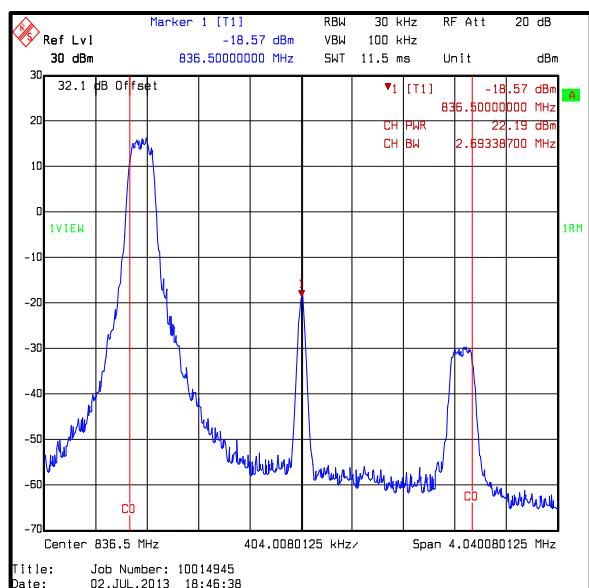
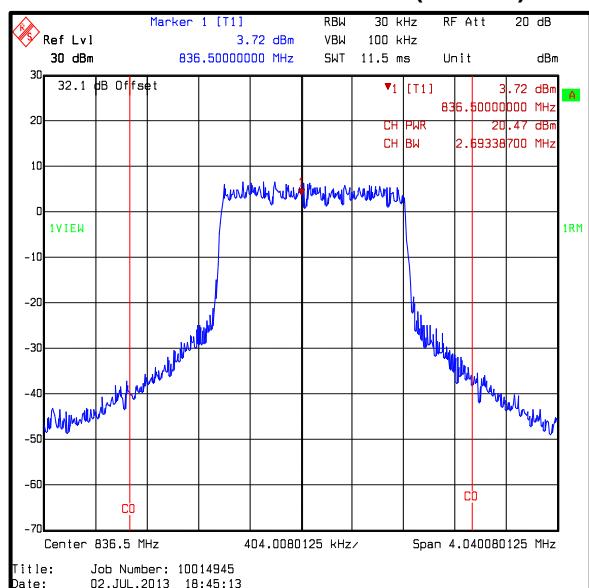
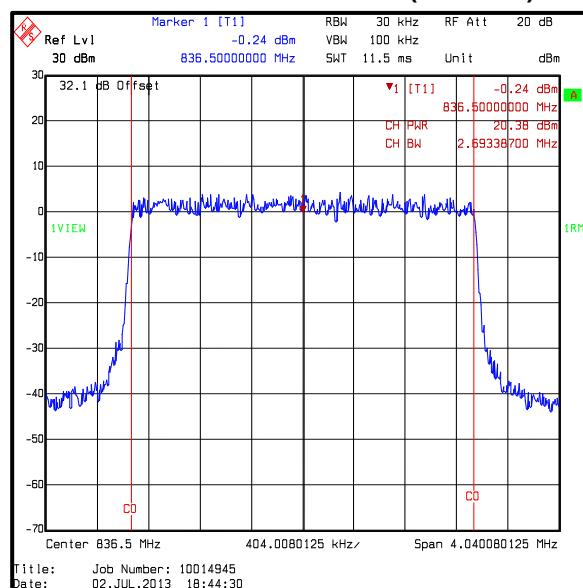
Transmitter Output Power (ERP) (continued)**Results: 3 MHz Channel Bandwidth / Bottom Channel / 16QAM**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
825.5	1	0	20.5	-6.18	14.32	38.5	24.18	Complied
825.5	1	14	20.0	-6.18	13.82	38.5	24.68	Complied
825.5	8	4	19.4	-6.18	13.22	38.5	25.28	Complied
825.5	15	0	19.5	-6.18	13.32	38.5	25.18	Complied

**16QAM / 1 Resource Block (0 offset)****16QAM / 1 Resource Block (14 offset)****16QAM / 8 Resource Blocks (4 offset)****16QAM / 15 Resource Blocks (0 offset)**

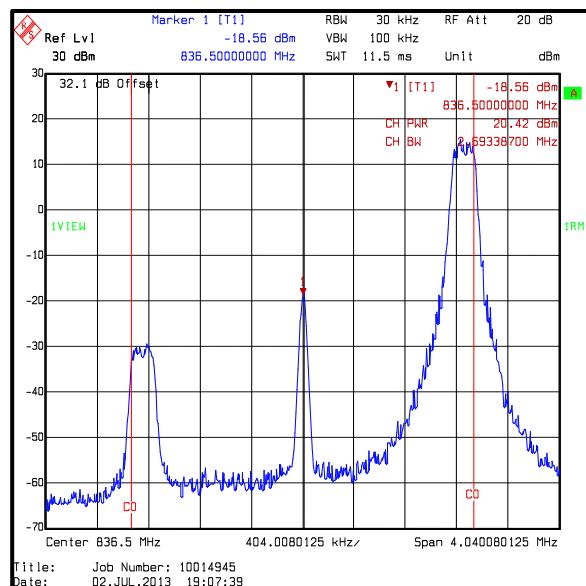
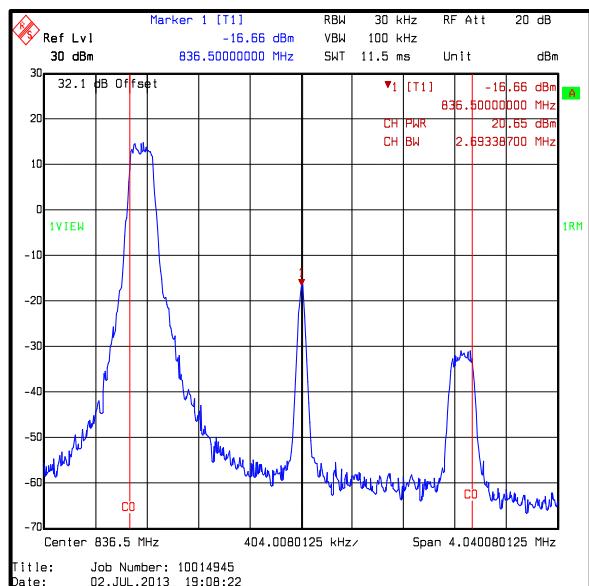
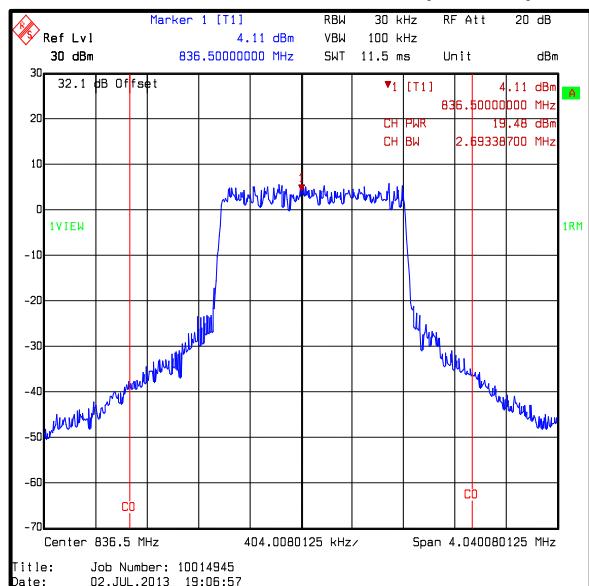
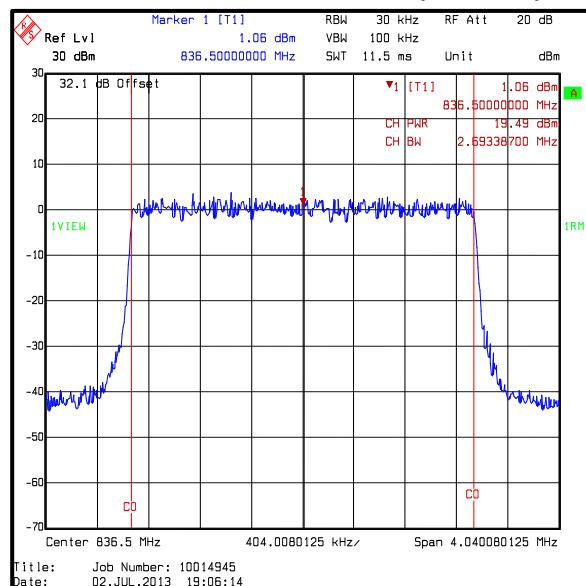
Transmitter Output Power (ERP) (continued)Results: 3 MHz Channel Bandwidth / Middle Channel / QPSK

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
836.5	1	0	22.2	-6.18	16.02	38.5	22.48	Complied
836.5	1	14	21.8	-6.18	15.62	38.5	22.88	Complied
836.5	8	4	20.5	-6.18	14.32	38.5	24.18	Complied
836.5	15	0	20.4	-6.18	14.22	38.5	24.28	Complied

**QPSK / 1 Resource Block (0 offset)****QPSK / 8 Resource Blocks (4 offset)****QPSK / 15 Resource Blocks (0 offset)**

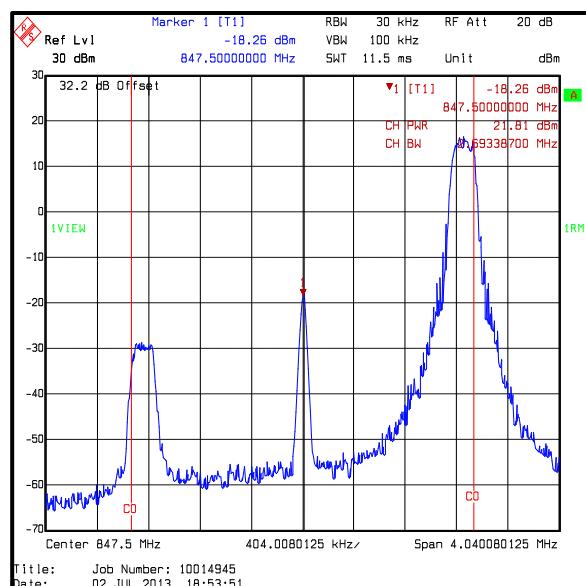
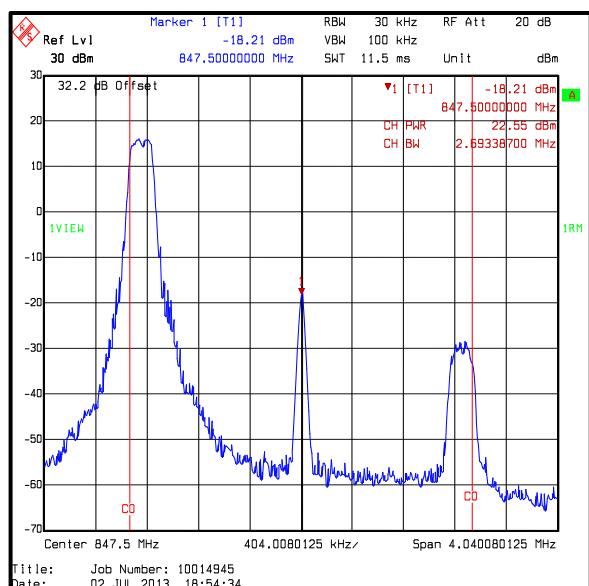
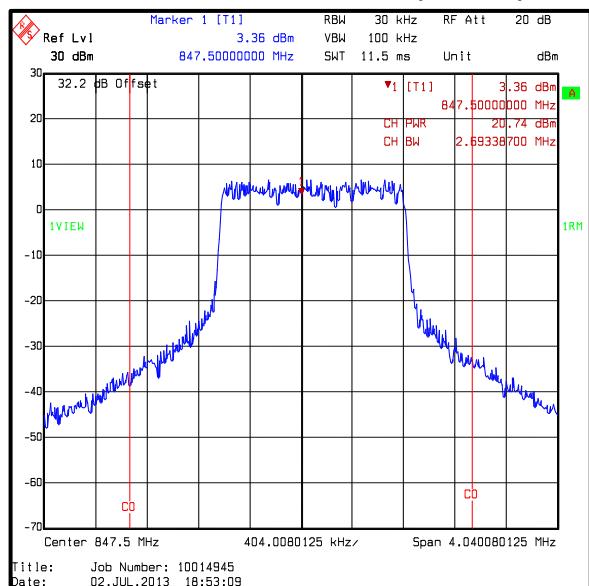
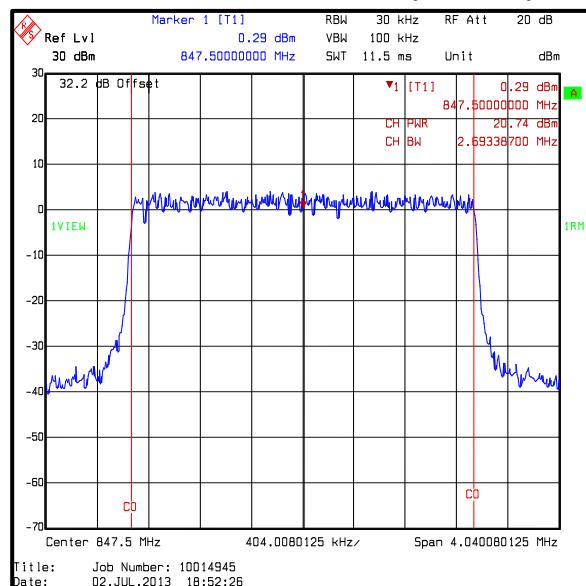
Transmitter Output Power (ERP) (continued)Results: 3 MHz Channel Bandwidth / Middle Channel / 16QAM

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
836.5	1	0	20.7	-6.18	14.52	38.5	23.98	Complied
836.5	1	14	20.4	-6.18	14.22	38.5	24.28	Complied
836.5	8	4	19.5	-6.18	13.32	38.5	25.18	Complied
836.5	15	0	19.5	-6.18	13.32	38.5	25.18	Complied

**16QAM / 1 Resource Block (0 offset)****16QAM / 1 Resource Block (14 offset)****16QAM / 8 Resource Blocks (4 offset)****16QAM / 15 Resource Blocks (0 offset)**

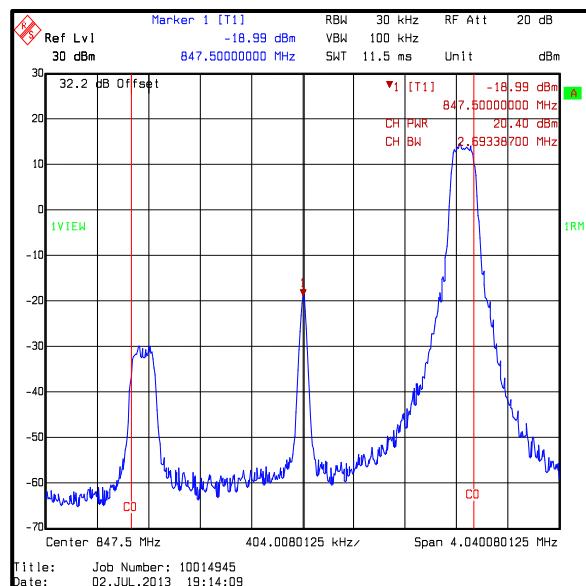
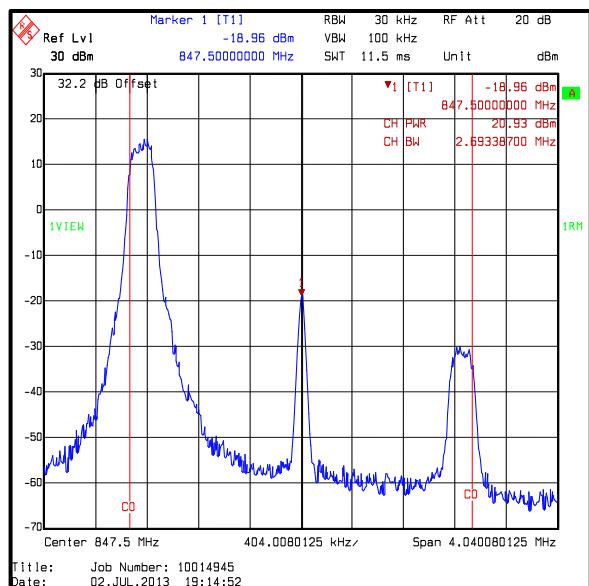
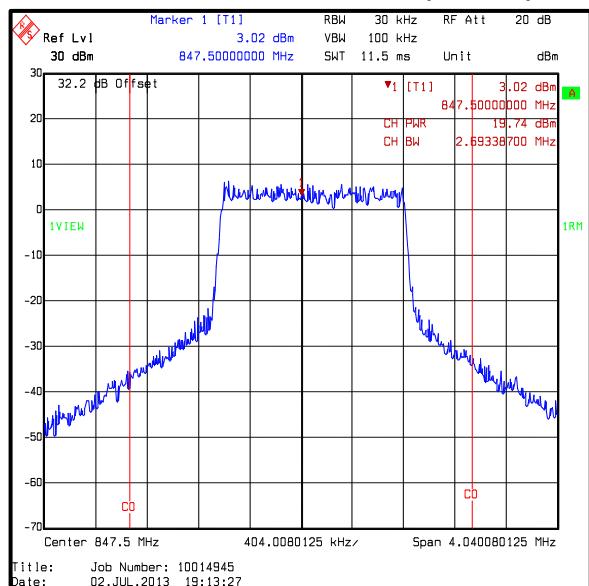
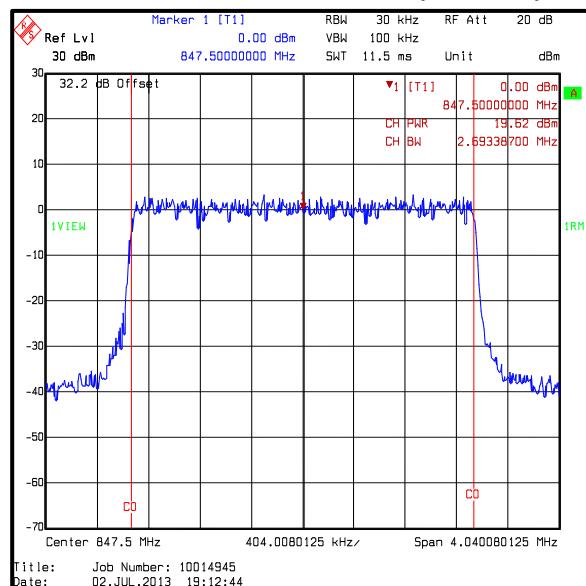
Transmitter Output Power (ERP) (continued)Results: 3 MHz Channel Bandwidth / Top Channel / QPSK

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
847.5	1	0	22.6	-6.18	16.42	38.5	22.08	Complied
847.5	1	14	21.8	-6.18	15.62	38.5	22.88	Complied
847.5	8	4	20.7	-6.18	14.52	38.5	23.98	Complied
847.5	15	0	20.7	-6.18	14.52	38.5	23.98	Complied

**QPSK / 1 Resource Block (0 offset)****QPSK / 8 Resource Blocks (4 offset)****QPSK / 15 Resource Blocks (0 offset)**

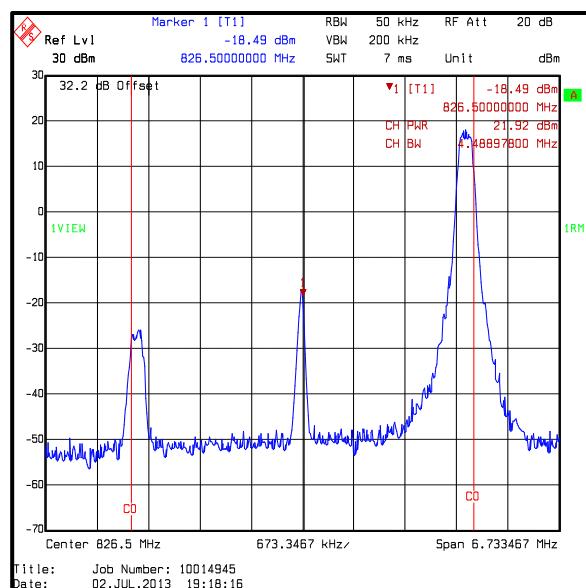
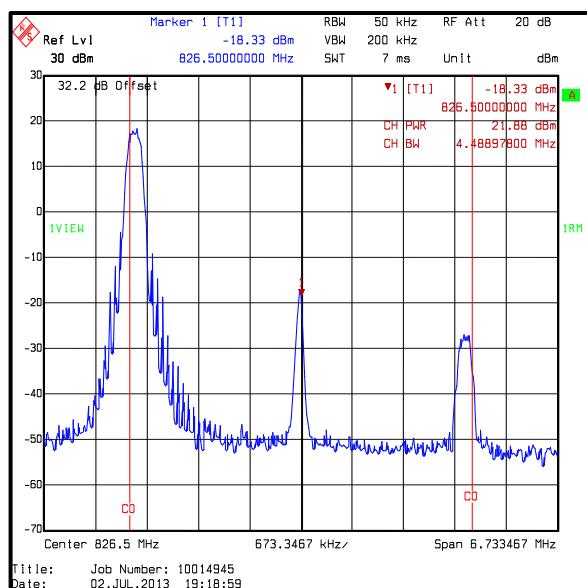
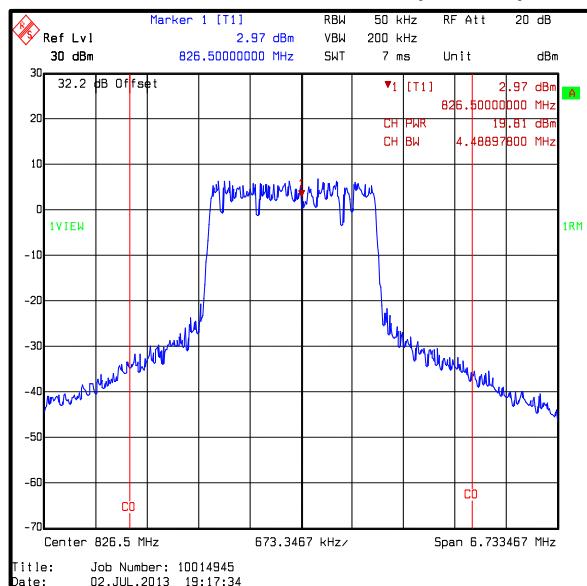
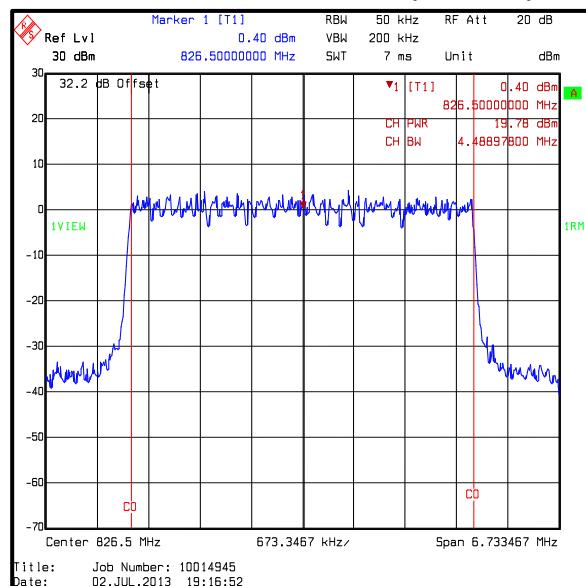
Transmitter Output Power (ERP) (continued)Results: 3 MHz Channel Bandwidth / Top Channel / 16QAM

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
847.5	1	0	20.9	-6.18	14.72	38.5	23.78	Complied
847.5	1	14	20.4	-6.18	14.22	38.5	24.28	Complied
847.5	8	4	19.7	-6.18	13.52	38.5	24.98	Complied
847.5	15	0	19.6	-6.18	13.42	38.5	25.08	Complied

**16QAM / 1 Resource Block (0 offset)****16QAM / 8 Resource Blocks (4 offset)****16QAM / 1 Resource Block (14 offset)****16QAM / 15 Resource Blocks (0 offset)**

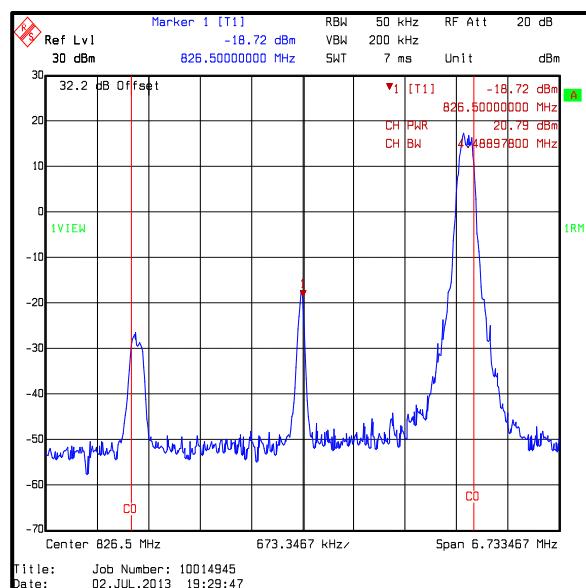
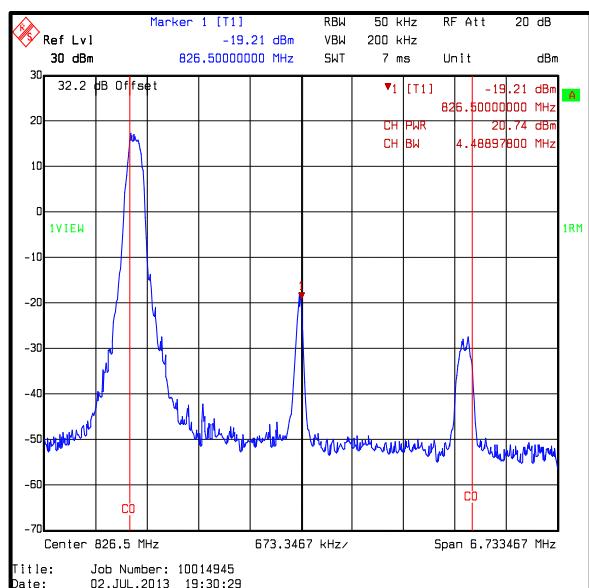
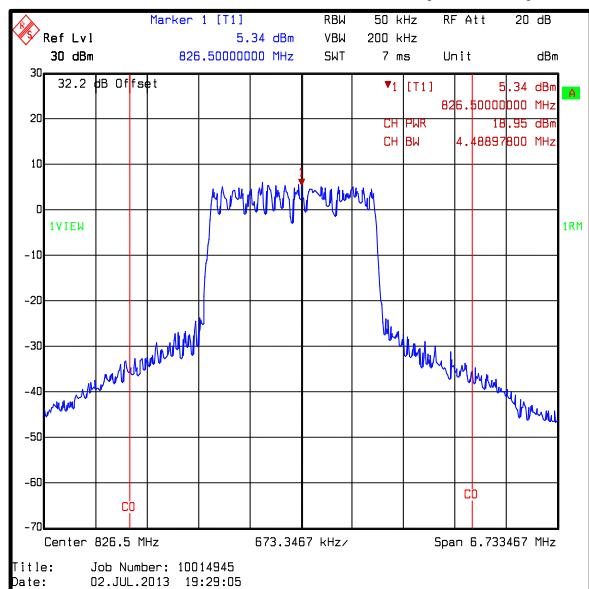
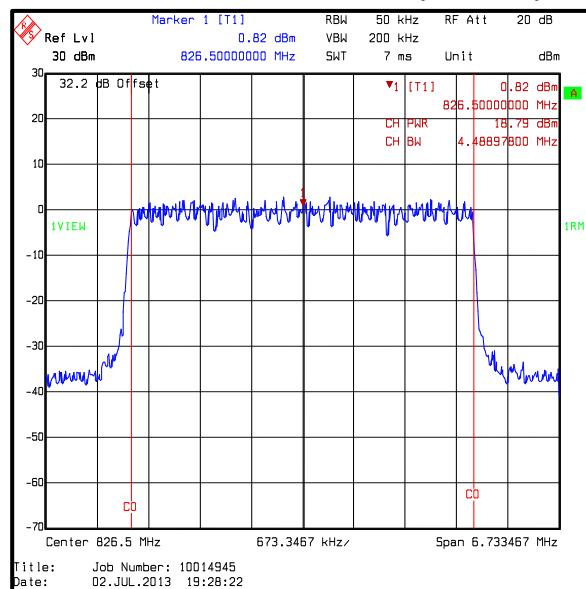
Transmitter Output Power (ERP) (continued)Results: 5 MHz Channel Bandwidth / Bottom Channel / QPSK

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
826.5	1	0	21.9	-6.18	15.72	38.5	22.78	Complied
826.5	1	24	21.9	-6.18	15.72	38.5	22.78	Complied
826.5	12	6	19.8	-6.18	13.62	38.5	24.88	Complied
826.5	25	0	19.8	-6.18	13.62	38.5	24.88	Complied

**QPSK / 1 Resource Block (0 offset)****QPSK / 12 Resource Blocks (6 offset)****QPSK / 25 Resource Blocks (0 offset)**

Transmitter Output Power (ERP) (continued)Results: 5 MHz Channel Bandwidth / Bottom Channel / 16QAM

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
826.5	1	0	20.7	-6.18	14.52	38.5	23.98	Complied
826.5	1	24	20.8	-6.18	14.62	38.5	23.88	Complied
826.5	12	6	19.0	-6.18	12.82	38.5	25.68	Complied
826.5	25	0	18.8	-6.18	12.62	38.5	25.88	Complied

**16QAM / 1 Resource Block (0 offset)****16QAM / 1 Resource Block (24 offset)****16QAM / 12 Resource Blocks (6 offset)****16QAM / 25 Resource Blocks (0 offset)**