



# TEST REPORT

**Test Report No. : UL-RPT-RP10295149JD04A V2.0**

**Manufacturer** : Sony Mobile Communications Inc.  
**FCC ID** : PY7PM-0803  
**Technology** : LTE Band 17  
**Test Standard(s)** : FCC Part 27 Subpart C

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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 2.0 supersedes all previous versions.

**Date of Issue:** 04 August 2014

**Checked by:**

Sarah Williams  
Engineer, Radio Laboratory

**Issued by :**

pp

John Newell  
Group Quality Manager,  
Basingstoke,  
UL VS LTD



This laboratory is accredited by UKAS.  
The tests reported herein have been  
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of accreditation.

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## UL VS LTD

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**1. Customer Information**

<b>Company Name:</b>	Sony Mobile Communications Inc.
<b>Address:</b>	Nya Vattentornet Mobilvägen 10 Lund 22188 Sweden

## **2. Summary of Testing**

### **2.1. General Information**

<b>Specification Reference:</b>	47CFR27
<b>Specification Title:</b>	Code of Federal Regulations Volume 47 (Telecommunications): Part 27 Subpart C (Miscellaneous Wireless Communication Services)
<b>Site Registration:</b>	209735
<b>Location of Testing:</b>	UL VS LTD, Unit 3 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom
<b>Test Dates:</b>	23 June 2014 to 27 June 2014

### **2.2. Summary of Test Results**

<b>FCC Reference (47CFR)</b>	<b>Measurement</b>	<b>Result</b>
2.1046 / 27.50(c)(10)	Transmitter Output Power (ERP)	
2.1049	Transmitter Occupied Bandwidth	
2.1053 / 27.53(f)	Transmitter Radiated Spurious Emissions	
2.1053 / 27.53(f)	Transmitter Radiated Emissions at Band Edges	
2.1055 / 27.54	Transmitter Frequency Stability (Temperature and Voltage Variation)	
Key to Results  = Complied  = Did not comply		

### **2.3. Methods and Procedures**

<b>Reference:</b>	ANSI/TIA-603-C-2004
<b>Title:</b>	Land Mobile Communications Equipment, Measurements and performance Standards
<b>Reference:</b>	FCC KDB 971168 D01 v02r01, 7 June 2013
<b>Title:</b>	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)**

<b>Brand Name:</b>	Sony
<b>IMEI:</b>	004402452687712 ( <i>Radiated sample</i> )
<b>Test Sample Serial Number:</b>	CB5A1ZCDH6
<b>Hardware Version Number:</b>	A
<b>Software Version Number:</b>	23.0.C.0.114
<b>FCC ID:</b>	PY7PM-0803

<b>Brand Name:</b>	Sony
<b>IMEI:</b>	004402452690567 ( <i>Conducted sample with RF port #1</i> )
<b>Test Sample Serial Number:</b>	CB5A1ZCDDW
<b>Hardware Version Number:</b>	A
<b>Software Version Number:</b>	23.0.C.0.114
<b>FCC ID Number:</b>	PY7PM-0803

<b>Brand Name:</b>	Sony
<b>IMEI:</b>	004402452690575 ( <i>Conducted sample with RF port #2</i> )
<b>Test Sample Serial Number:</b>	CB5A1ZCDF2
<b>Hardware Version Number:</b>	A
<b>Software Version Number:</b>	23.0.C.0.114
<b>FCC ID Number:</b>	PY7PM-0803

<b>Brand Name:</b>	Sony
<b>Description:</b>	AC Charger
<b>Model Name or Number:</b>	EP880

<b>Brand Name:</b>	Generic
<b>Description:</b>	MHL Cable
<b>Model Name or Number:</b>	Not marked

<b>Brand Name:</b>	Sony
<b>Description:</b>	USB Cable
<b>Model Name or Number:</b>	EC803

**Identification of Equipment Under Test (EUT) (continued)**

<b>Brand Name:</b>	Sony
<b>Description:</b>	MHL Adaptor
<b>Model Name or Number:</b>	IM750

<b>Brand Name:</b>	Sony
<b>Description:</b>	Deskstand
<b>Model Name or Number:</b>	DK43

<b>Brand Name:</b>	Sony
<b>Description:</b>	PHF
<b>Model Name or Number:</b>	MH410c

**3.2. Description of EUT**

The equipment under test (EUT) was a GSM/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac + NFC & ANT+.

**3.3. Modifications Incorporated in the EUT**

No modifications were applied to the EUT during testing.

**3.4. Additional Information Related to Testing**

<b>Tested Technology:</b>	LTE Band 17		
<b>Type of Equipment</b>	Transceiver		
<b>Channel Bandwidth:</b>	5 MHz & 10 MHz		
<b>Modulation Type:</b>	QPSK & 16QAM		
<b>Duty Cycle:</b>	100%		
<b>Antenna Gain:</b>	-8.05 dBd		
<b>Power Supply Requirement:</b>	Nominal	3.8 VDC	
	Minimum	3.42 VDC	
	Maximum	4.18 VDC	
<b>Transmit Frequency Range:</b>	704 MHz to 716 MHz		
<b>Channels Tested:</b>	<b>Channel Bandwidth</b>	<b>N<sub>ul</sub></b>	<b>Frequency of Uplink (MHz)</b>
<b>Bottom Channel</b>	5	23755	706.5
	10	23780	709.0
<b>Middle Channel</b>	All	23790	710.0
<b>Top Channel</b>	5	23825	713.5
	10	23800	711.0

**3.5. Support Equipment**

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

<b>Description:</b>	2 GB Micro SD Card
<b>Brand Name:</b>	Generic
<b>Model Name or Number:</b>	Not marked

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

<b>Description:</b>	Voltage variation jig
<b>Brand Name:</b>	Not marked
<b>Model Name or Number:</b>	Not marked
<b>Serial Number:</b>	Not marked

## **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, Desk stand 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 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 004402452690575 was used for frequency stability measurements.
- The conducted sample with IMEI 004402452690567 was used for output power and occupied bandwidth measurements.
- The radiated sample with IMEI 004402452687712 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
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 Emissions testing was carried out using sub test 1, with a 10 MHz channel bandwidth and QPSK modulation scheme, as 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 5 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* for Measurement Uncertainty 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:**

<b>Test Engineer:</b>	Nick Steele	<b>Test Date:</b>	25 June 2014
<b>Test Sample IMEI:</b>	004402452690567		

<b>FCC Reference:</b>	Parts 2.1046 & 27.50(c)(10)
<b>Test Method Used:</b>	As detailed in FCC KDB 971168 Section 5.2.1

#### **Environmental Conditions:**

<b>Temperature (°C):</b>	25
<b>Relative Humidity (%):</b>	39

#### **Note(s):**

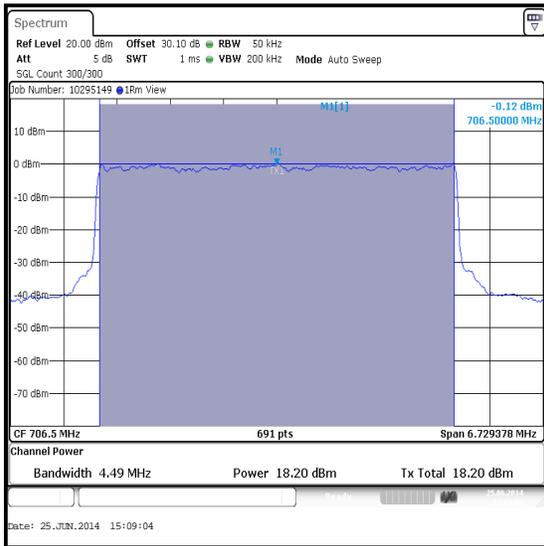
- The customer stated that a maximum antenna gain of -5.9 dBi, as the limit is ERP the gain in dBi has been converted. The dBd has been calculated as.  

$$-5.9 \text{ dBi} - 2.15 \text{ dB} = -8.05 \text{ dBd}$$
- 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.
- The spectrum analyser's channel power function was used to integrate across the occupied bandwidth. The resolution bandwidth was set to between 1-5% of the occupied bandwidth and the video bandwidth was set to at least 3 times the resolution bandwidth. An RMS detector was used, sweep time was set to auto and the trace was averaged over 300 traces. The span was set to at least 1.5 times the occupied bandwidth. The channel power results are recorded in the tables below.
- The RF port of the EUT was connected to the spectrum analyser via RF cables, directional coupler and suitable attenuation. An RF level offset was entered on the spectrum analyser, to compensate for the signal path losses in these components.

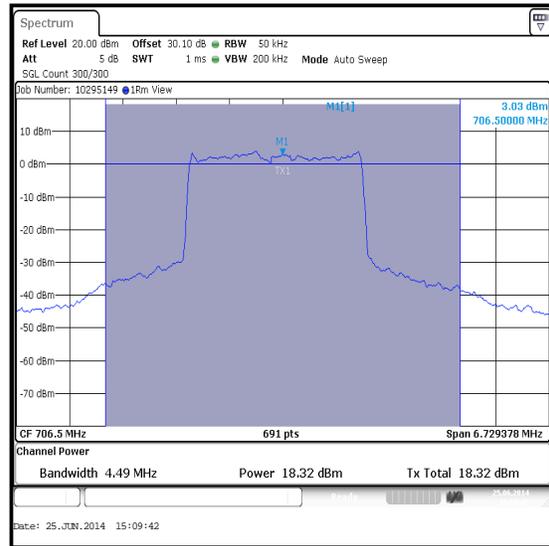
**Transmitter Output Power (ERP) (continued)**

**Results: 5 MHz Channel Bandwidth / Bottom Channel / QPSK**

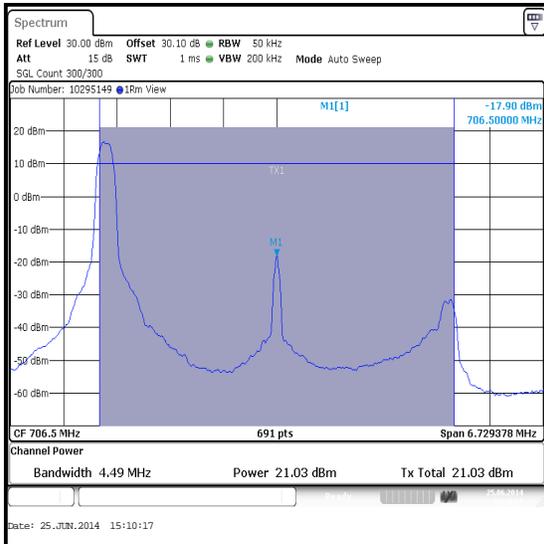
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
706.5	25	0	18.2	-8.05	10.15	34.8	24.65	Complied
706.5	12	6	18.3	-8.05	10.25	34.8	24.55	Complied
706.5	1	0	21.0	-8.05	12.95	34.8	21.85	Complied
706.5	1	24	21.0	-8.05	12.95	34.8	21.85	Complied



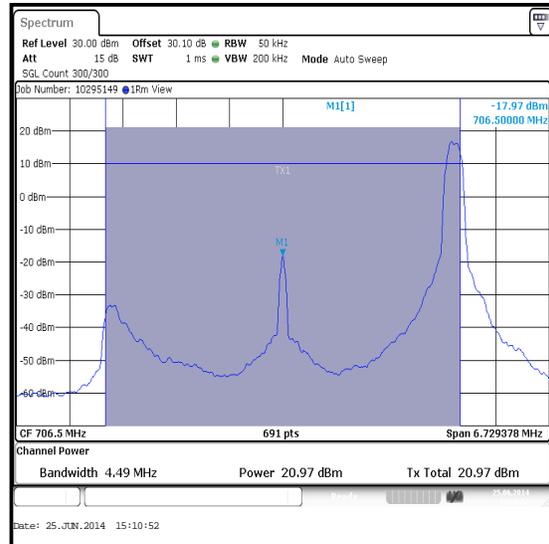
**QPSK / 25 Resource Blocks (0 Offset)**



**QPSK / 12 Resource Blocks (6 Offset)**



**QPSK / 1 Resource Block (0 Offset)**

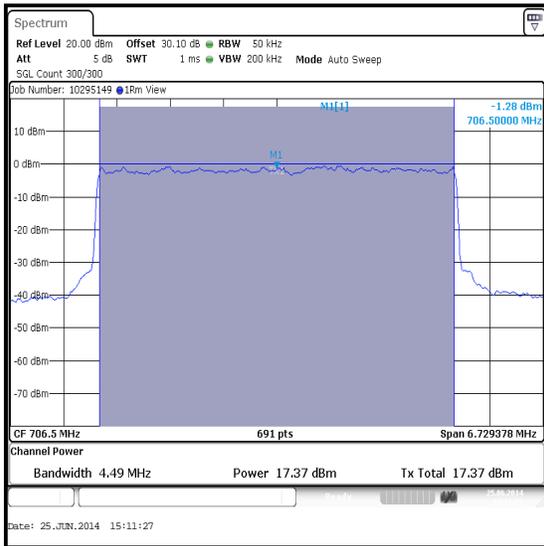


**QPSK / 1 Resource Block (24 Offset)**

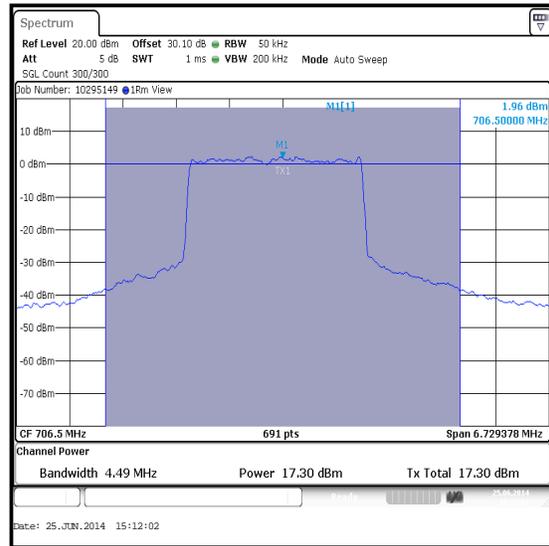
**Transmitter Output Power (ERP) (continued)**

**Results: 5 MHz Channel Bandwidth / Bottom Channel / 16QAM**

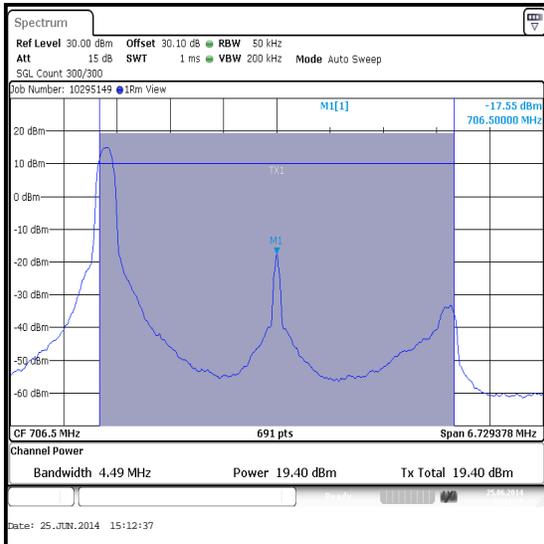
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
706.5	25	0	17.4	-8.05	9.35	34.8	25.45	Complied
706.5	12	6	17.3	-8.05	9.25	34.8	25.55	Complied
706.5	1	0	19.4	-8.05	11.35	34.8	23.45	Complied
706.5	1	24	19.7	-8.05	11.65	34.8	23.15	Complied



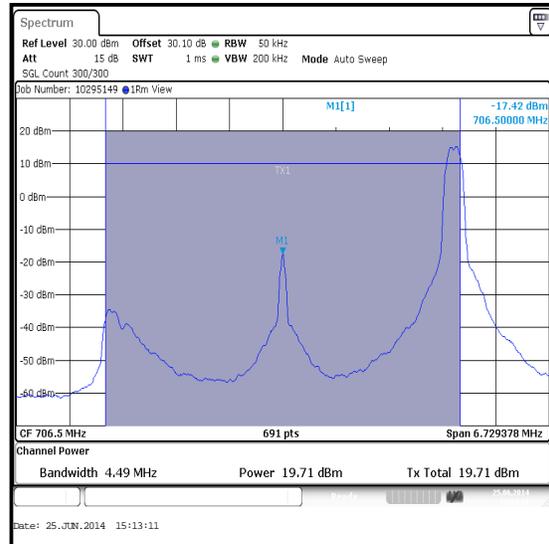
**16QAM / 25 Resource Blocks (0 Offset)**



**16QAM / 12 Resource Blocks (6 Offset)**



**16QAM / 1 Resource Block (0 Offset)**

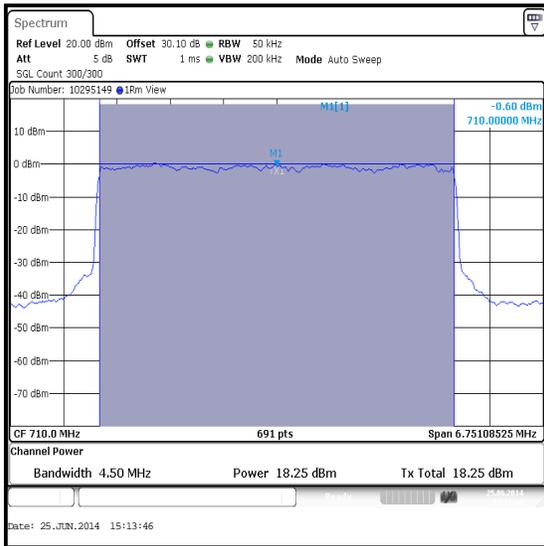


**16QAM / 1 Resource Block (24 Offset)**

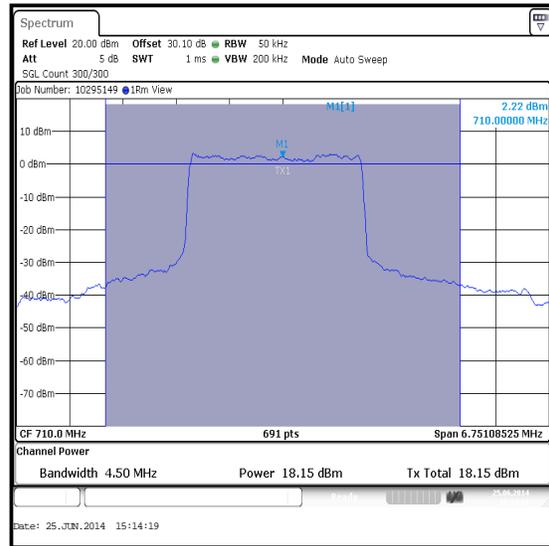
**Transmitter Output Power (ERP) (continued)**

**Results: 5 MHz Channel Bandwidth / Middle Channel / QPSK**

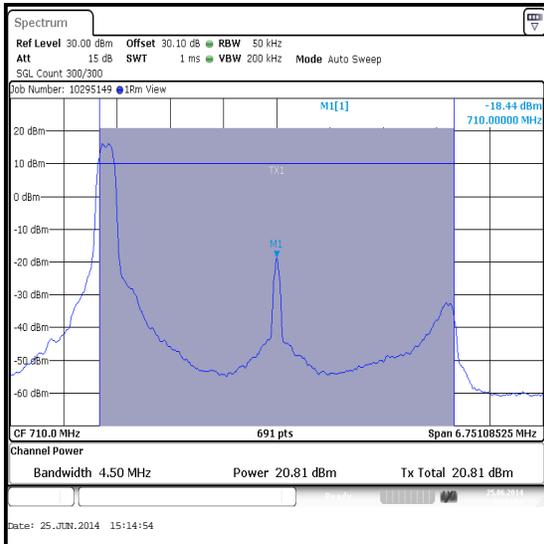
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
710.0	25	0	18.3	-8.05	10.25	34.8	24.55	Complied
710.0	12	6	18.2	-8.05	10.15	34.8	24.65	Complied
710.0	1	0	20.8	-8.05	12.75	34.8	22.05	Complied
710.0	1	24	20.8	-8.05	12.75	34.8	22.05	Complied



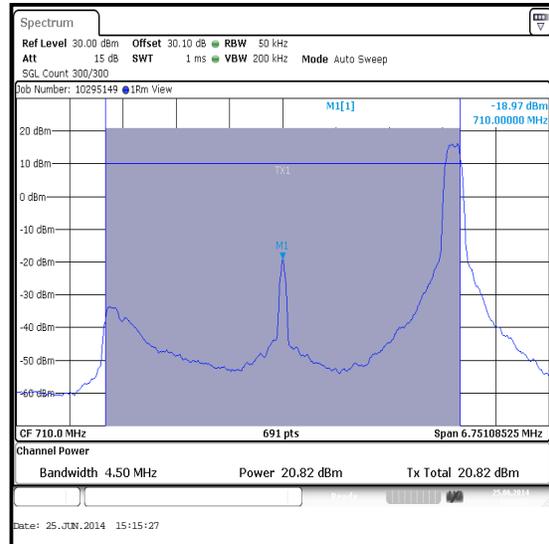
**QPSK / 25 Resource Blocks (0 Offset)**



**QPSK / 12 Resource Blocks (6 Offset)**



**QPSK / 1 Resource Block (0 Offset)**

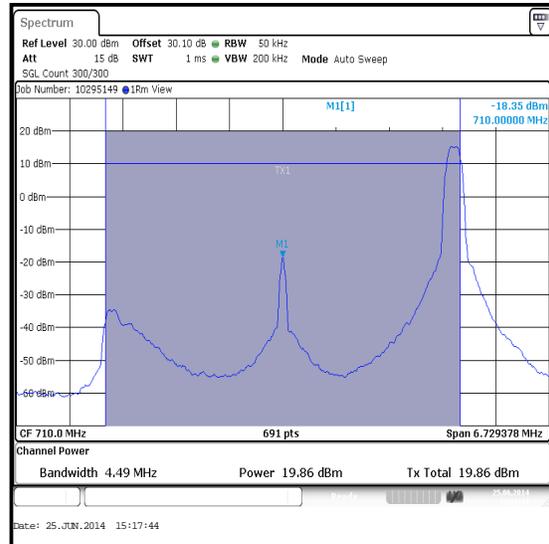
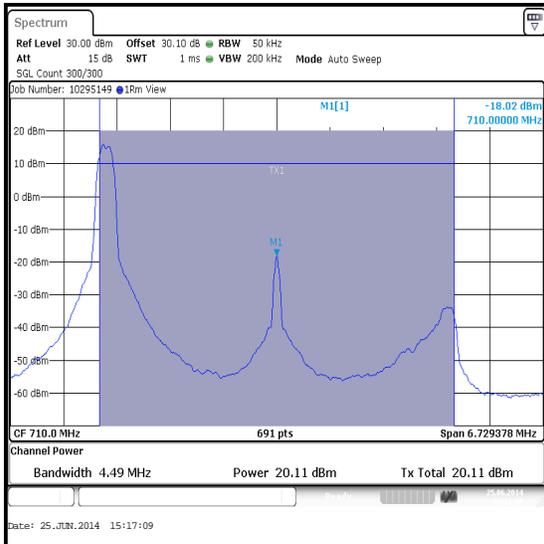
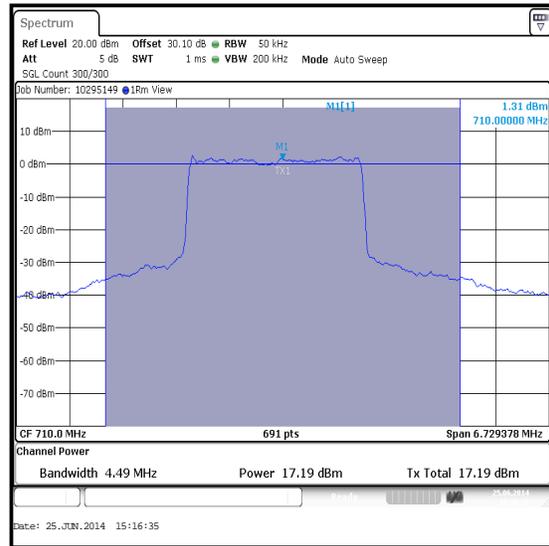
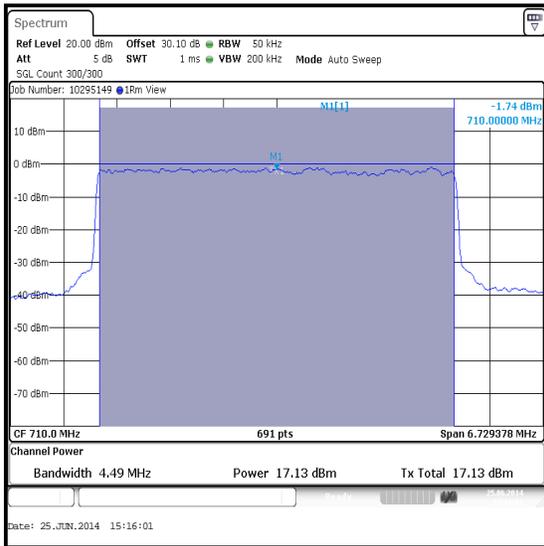


**QPSK / 1 Resource Block (24 Offset)**

**Transmitter Output Power (ERP) (continued)**

**Results: 5 MHz Channel Bandwidth / Middle Channel / 16QAM**

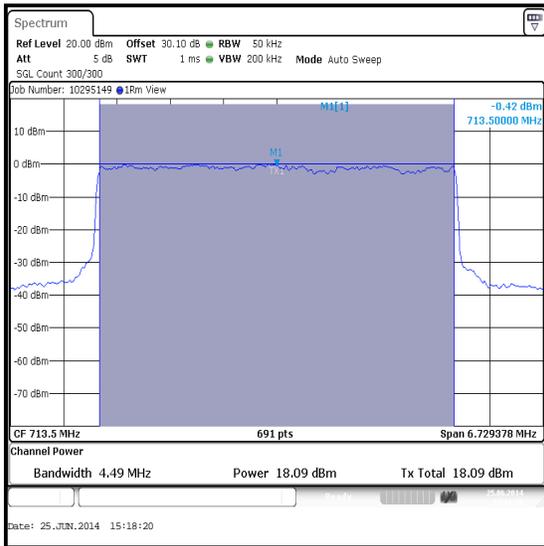
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
710.0	25	0	17.1	-8.05	9.05	34.8	25.75	Complied
710.0	12	6	17.2	-8.05	9.15	34.8	25.65	Complied
710.0	1	0	20.1	-8.05	12.05	34.8	22.75	Complied
710.0	1	24	19.9	-8.05	11.85	34.8	22.95	Complied



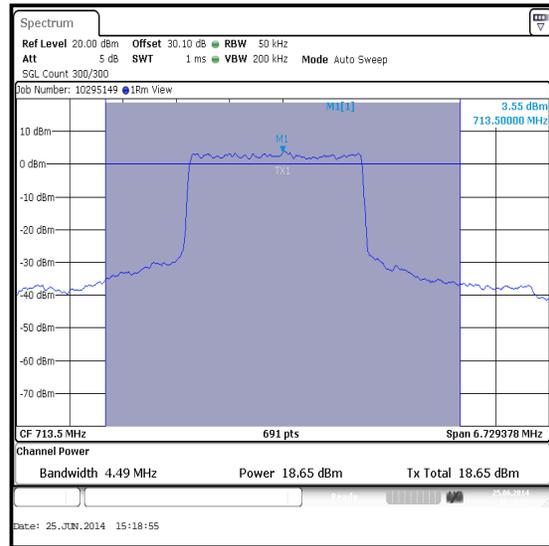
**Transmitter Output Power (ERP) (continued)**

**Results: 5 MHz Channel Bandwidth / Top Channel / QPSK**

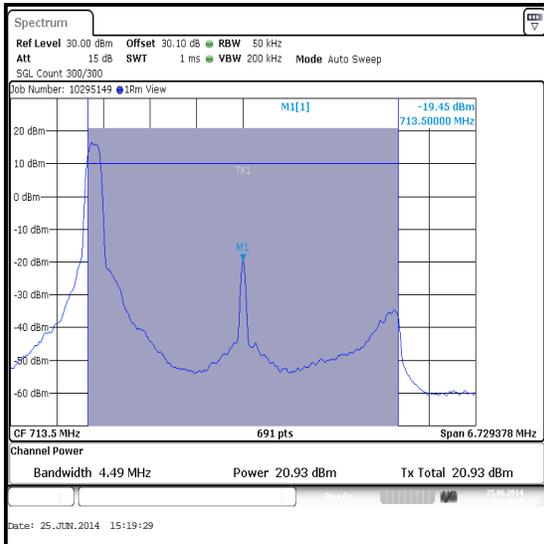
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
713.5	25	0	18.1	-8.05	10.05	34.8	24.75	Complied
713.5	12	6	18.7	-8.05	10.65	34.8	24.15	Complied
713.5	1	0	20.9	-8.05	12.85	34.8	21.95	Complied
713.5	1	24	20.7	-8.05	12.65	34.8	22.15	Complied



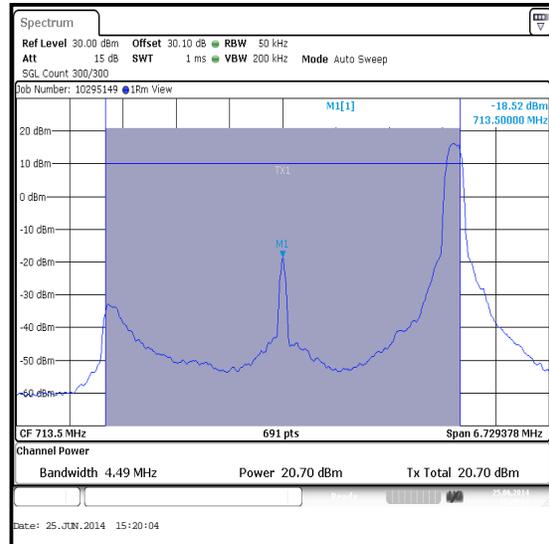
**QPSK / 25 Resource Blocks (0 Offset)**



**QPSK / 12 Resource Blocks (6 Offset)**



**QPSK / 1 Resource Block (0 Offset)**

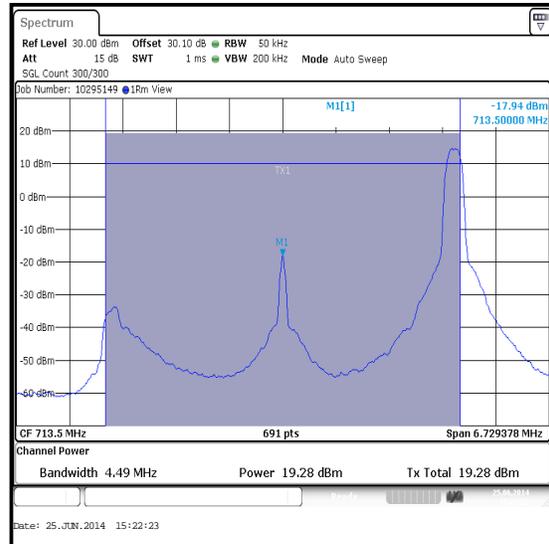
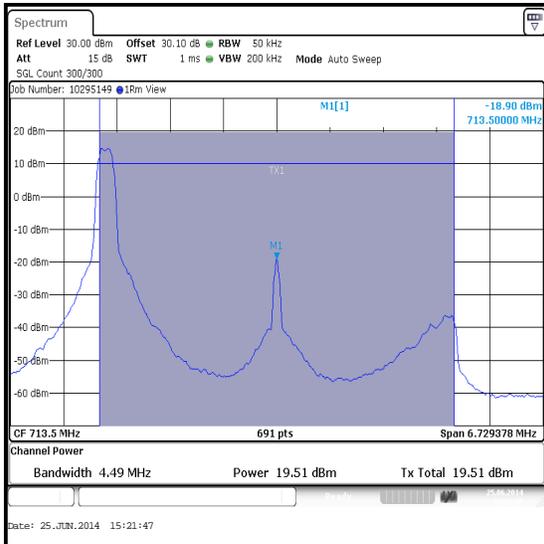
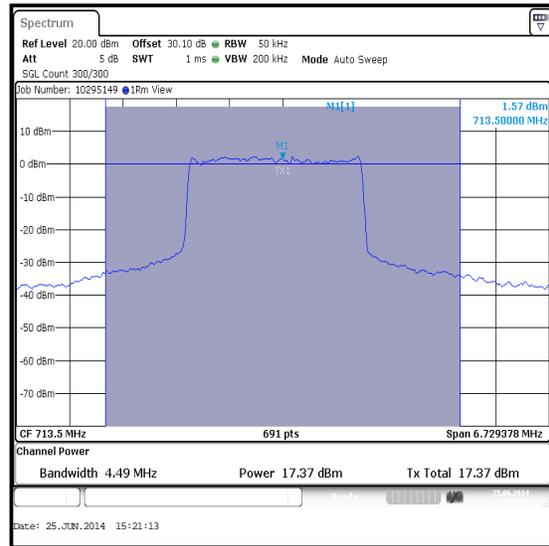
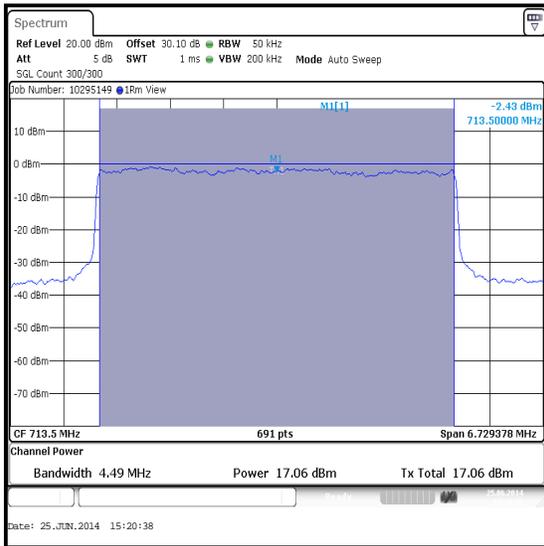


**QPSK / 1 Resource Block (24 Offset)**

**Transmitter Output Power (ERP) (continued)**

**Results: 5 MHz Channel Bandwidth / Top Channel / 16QAM**

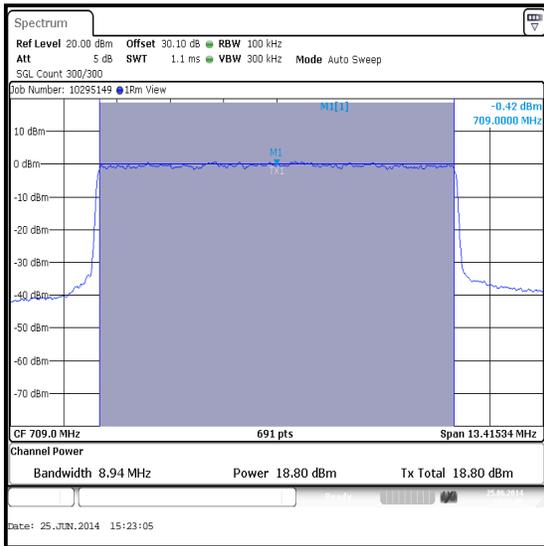
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
713.5	25	0	17.1	-8.05	9.05	34.8	25.75	Complied
713.5	12	6	17.4	-8.05	9.35	34.8	25.45	Complied
713.5	1	0	19.5	-8.05	11.45	34.8	23.35	Complied
713.5	1	24	19.3	-8.05	11.25	34.8	23.55	Complied



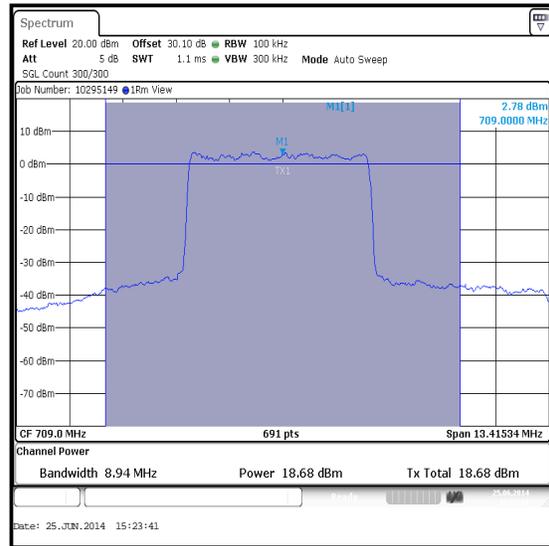
**Transmitter Output Power (ERP) (continued)**

**Results: 10 MHz Channel Bandwidth / Bottom Channel / QPSK**

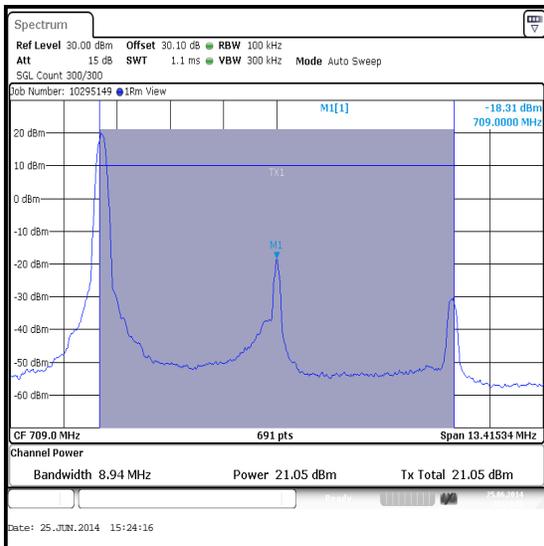
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
709.0	50	0	18.8	-8.05	10.75	34.8	24.05	Complied
709.0	25	12	18.7	-8.05	10.65	34.8	24.15	Complied
709.0	1	0	21.1	-8.05	13.05	34.8	21.75	Complied
709.0	1	49	21.2	-8.05	13.15	34.8	21.65	Complied



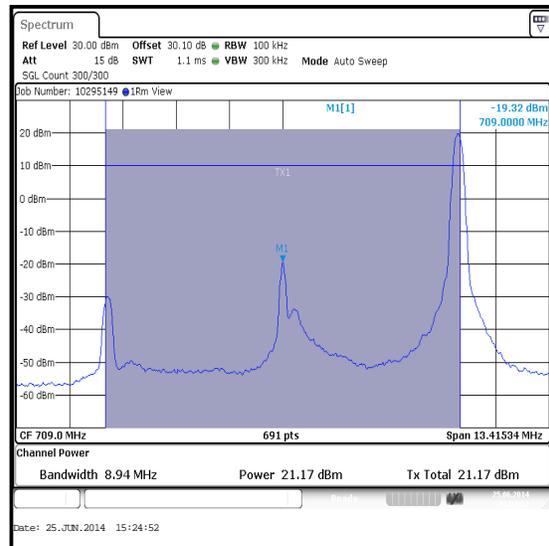
**QPSK / 50 Resource Block(s) (0 Offset)**



**QPSK / 25 Resource Blocks (12 Offset)**



**QPSK / 1 Resource Block (0 Offset)**

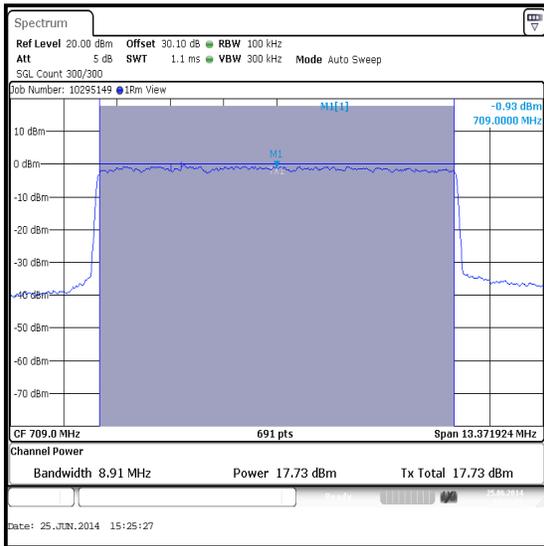


**QPSK / 1 Resource Block (49 Offset)**

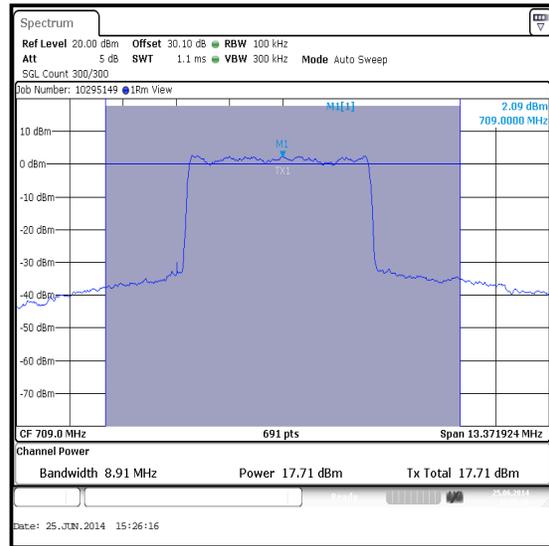
**Transmitter Output Power (ERP) (continued)**

**Results: 10 MHz Channel Bandwidth / Bottom Channel / 16QAM**

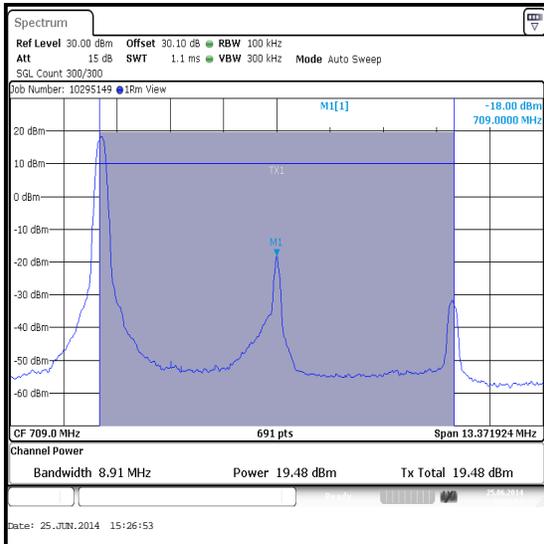
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
709.0	50	0	17.7	-8.05	9.65	34.8	25.15	Complied
709.0	25	12	17.7	-8.05	9.65	34.8	25.15	Complied
709.0	1	0	19.5	-8.05	11.45	34.8	23.35	Complied
709.0	1	49	19.5	-8.05	11.45	34.8	23.35	Complied



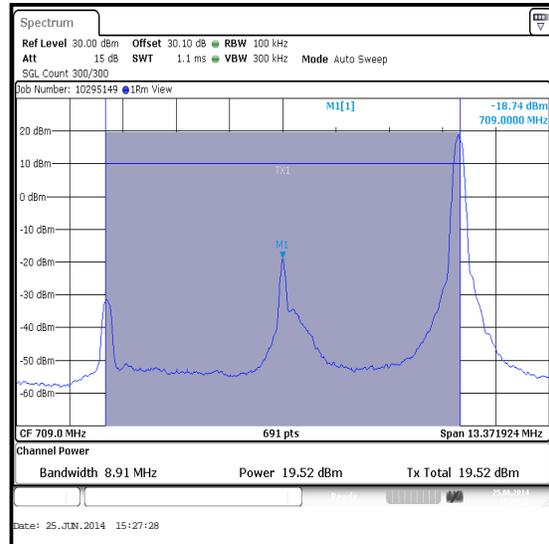
**16QAM / 50 Resource Block(s) (0 Offset)**



**16QAM / 25 Resource Blocks (12 Offset)**



**16QAM / 1 Resource Block (0 Offset)**

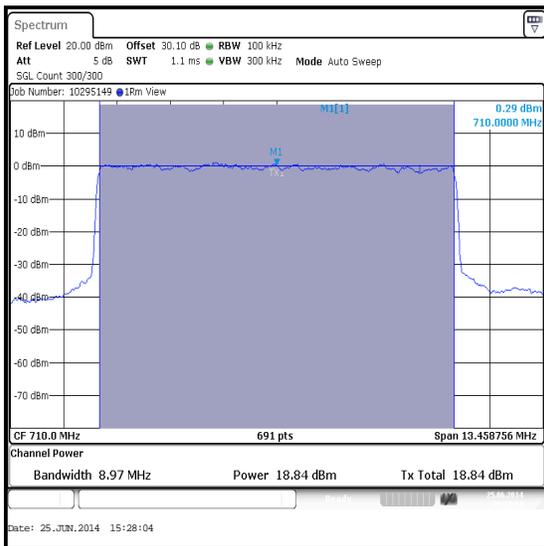


**16QAM / 1 Resource Block (49 Offset)**

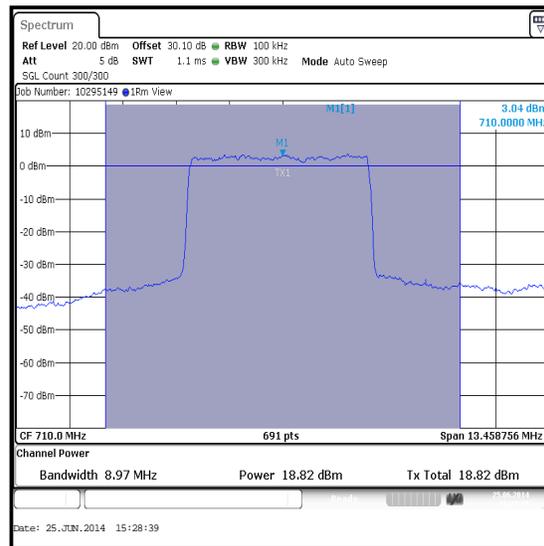
**Transmitter Output Power (ERP) (continued)**

**Results: 10 MHz Channel Bandwidth / Middle Channel / QPSK**

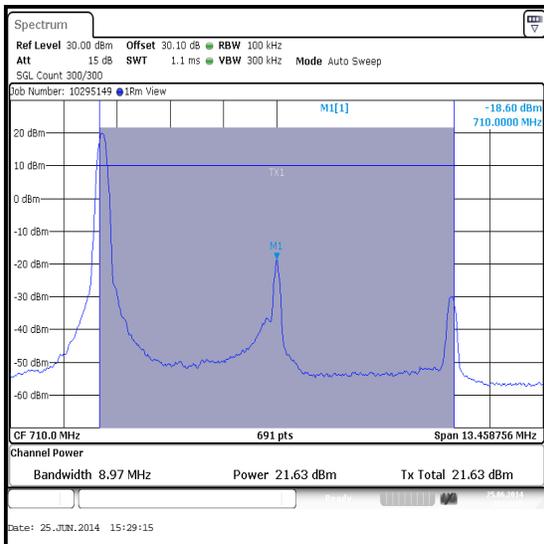
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
710.0	50	0	18.8	-8.05	10.75	34.8	24.05	Complied
710.0	25	12	18.8	-8.05	10.75	34.8	24.05	Complied
710.0	1	0	21.6	-8.05	13.55	34.8	21.25	Complied
710.0	1	49	21.2	-8.05	13.15	34.8	21.65	Complied



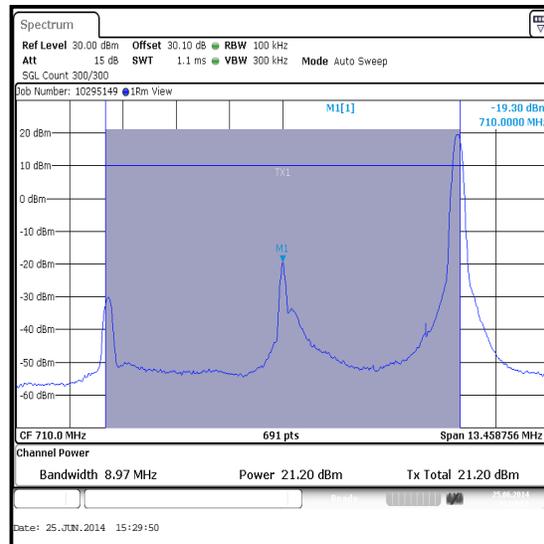
**QPSK / 50 Resource Block(s) (0 Offset)**



**QPSK / 25 Resource Blocks (12 Offset)**



**QPSK / 1 Resource Block (0 Offset)**

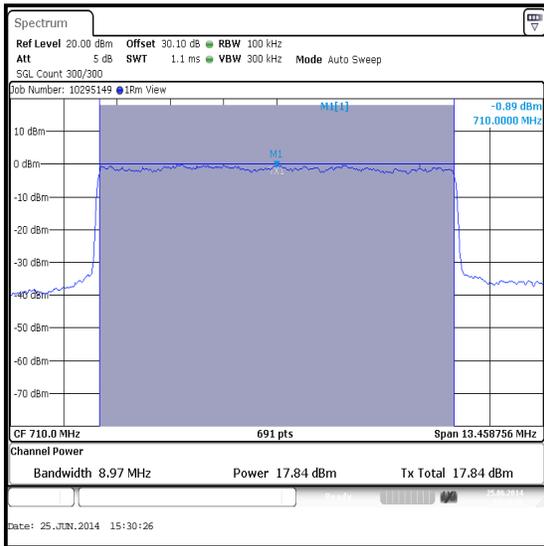


**QPSK / 1 Resource Block (49 Offset)**

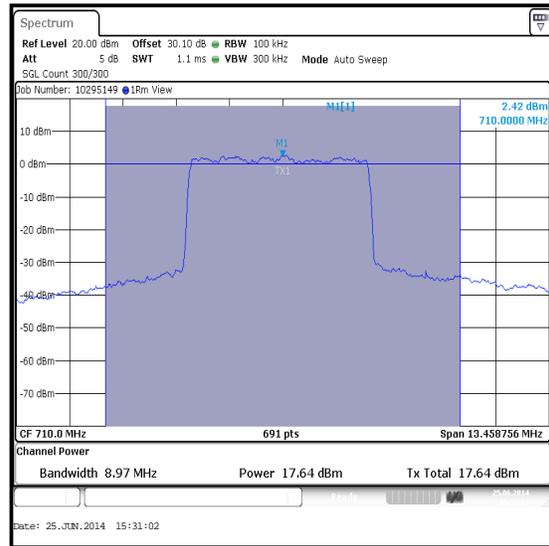
**Transmitter Output Power (ERP) (continued)**

**Results: 10 MHz Channel Bandwidth / Middle Channel / 16QAM**

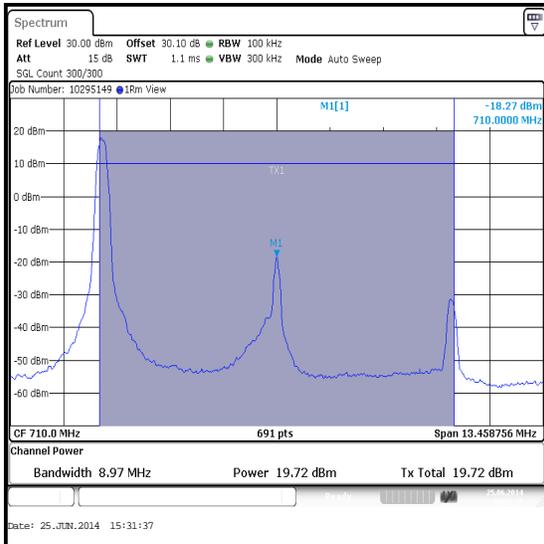
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
710.0	50	0	17.8	-8.05	9.75	34.8	25.05	Complied
710.0	25	12	17.6	-8.05	9.55	34.8	25.25	Complied
710.0	1	0	19.7	-8.05	11.65	34.8	23.15	Complied
710.0	1	49	19.7	-8.05	11.65	34.8	23.15	Complied



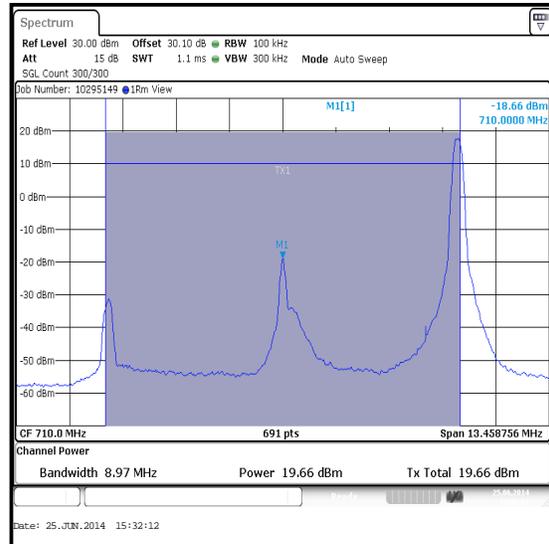
**16QAM / 50 Resource Blocks (0 Offset)**



**16QAM / 25 Resource Blocks (12 Offset)**



**16QAM / 1 Resource Block (0 Offset)**

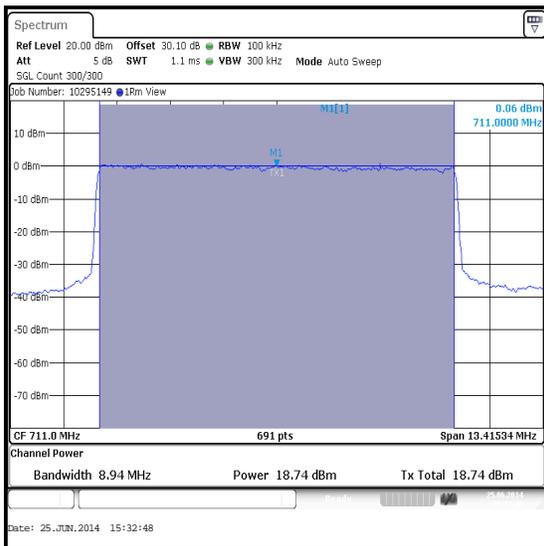


**16QAM / 1 Resource Block (49 Offset)**

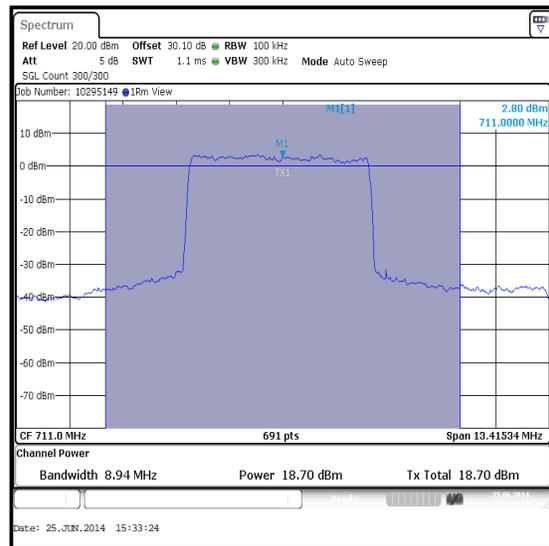
**Transmitter Output Power (ERP) (continued)**

**Results: 10 MHz Channel Bandwidth / Top Channel / QPSK**

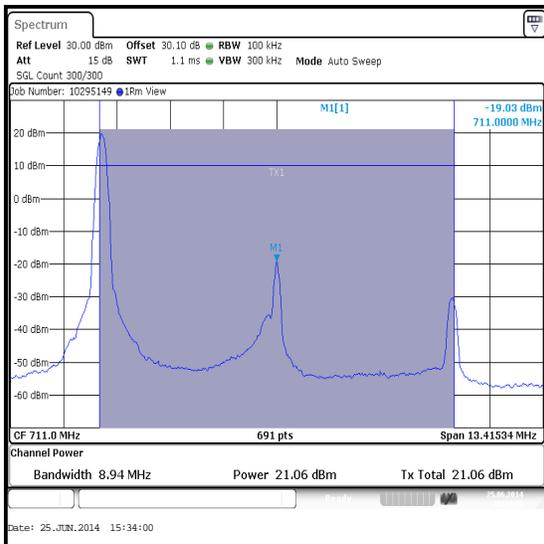
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
711.0	50	0	18.7	-8.05	10.65	34.8	24.15	Complied
711.0	25	12	18.7	-8.05	10.65	34.8	24.15	Complied
711.0	1	0	21.1	-8.05	13.05	34.8	21.75	Complied
711.0	1	49	21.0	-8.05	12.95	34.8	21.85	Complied



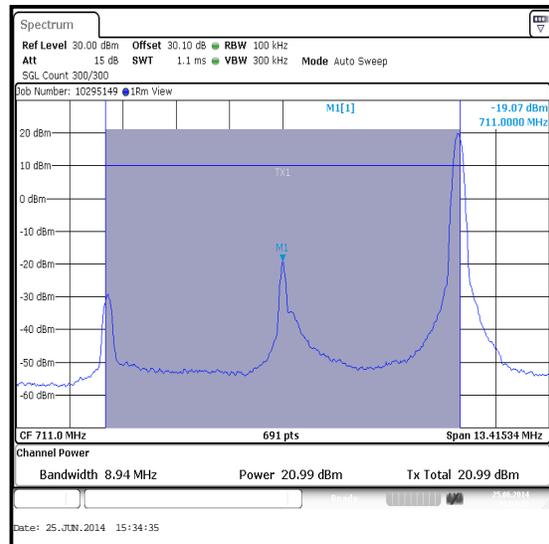
**QPSK / 50 Resource Blocks (0 Offset)**



**QPSK / 25 Resource Blocks (12 Offset)**



**QPSK / 1 Resource Block (0 Offset)**

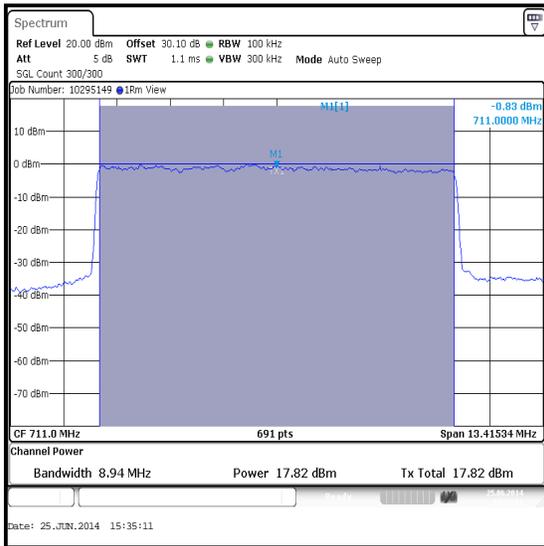


**QPSK / 1 Resource Block (49 Offset)**

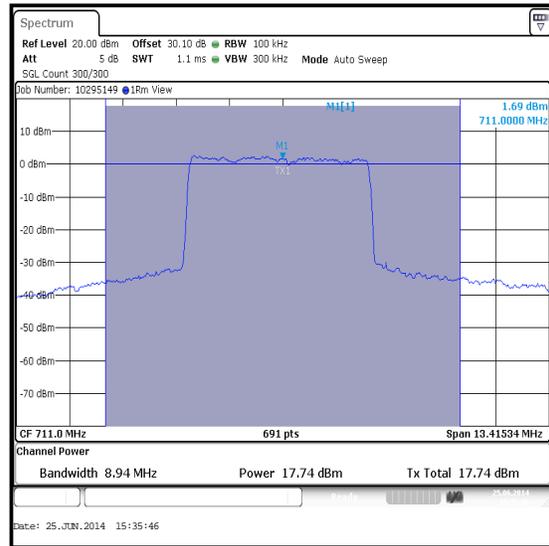
**Transmitter Output Power (ERP) (continued)**

**Results: 10 MHz Channel Bandwidth / Top Channel / 16QAM**

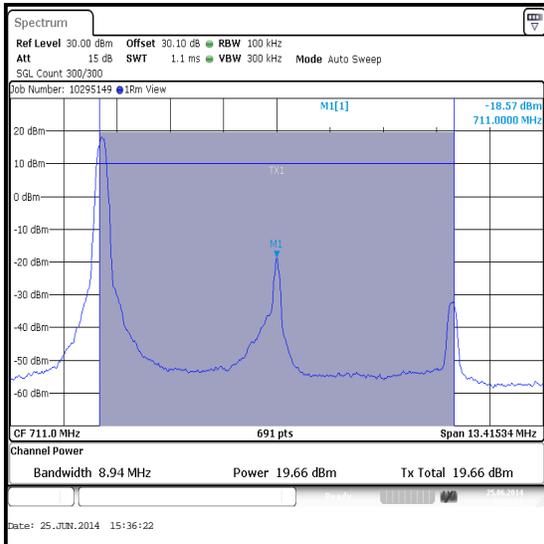
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Conducted RF Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP Limit (dBm)	Margin (dB)	Result
711.0	50	0	17.8	-8.05	9.75	34.8	25.05	Complied
711.0	25	12	17.7	-8.05	9.65	34.8	25.15	Complied
711.0	1	0	19.7	-8.05	11.65	34.8	23.15	Complied
711.0	1	49	19.5	-8.05	11.45	34.8	23.35	Complied



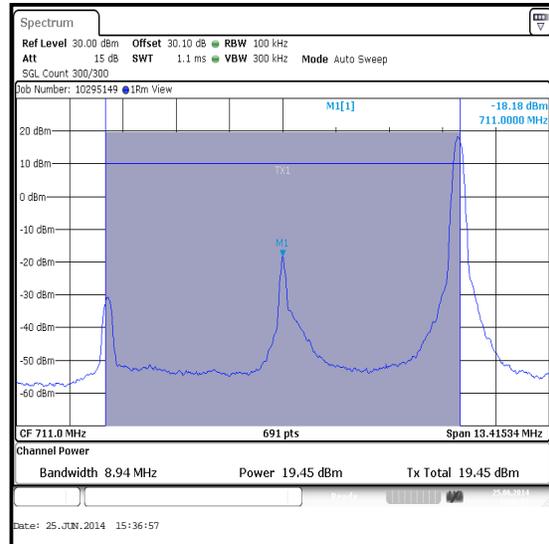
**16QAM / 50 Resource Blocks (0 Offset)**



**16QAM / 25 Resource Blocks (12 Offset)**



**16QAM / 1 Resource Block (0 Offset)**



**16QAM / 1 Resource Block (49 Offset)**

**Transmitter Output Power (ERP) (continued)****Test Equipment Used:**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1659	Thermohygrometer	JM Handelspunkt	30.5015.13	None stated	14 Mar 2015	12
L1127	Signal Analyser	Rohde & Schwarz	FSV13	100863	24 Apr 2015	12
A2535	Directional Coupler	AtlanTecRF	CDC-003060-20	14041701719	Calibrated before use	-
A2508	Attenuator	AtlanTecRF	AN18-10	821846#3	Calibrated before use	-
S0557	DC Power Supply	TTI	EL303R	395819	Calibrated before use	-
M1251	Digital Multimeter	Fluke	175	8717019	19 May 2015	12
G0608	Signal Generator	Rohde & Schwarz	SMIQ 06B	838341/033	14 Feb 2015	12
M1009	Power Meter	Hewlett Packard	437B	3125U13706	04 Feb 2015	12
M1592	Power Sensor	Hewlett Packard	8487A	3318A02094	28 Aug 2014	12

**5.2.2. Transmitter Occupied Bandwidth****Test Summary:**

<b>Test Engineer:</b>	Nick Steele	<b>Test Date:</b>	25 June 2014
<b>Test Sample IMEI:</b>	004402452690567		

<b>FCC Reference:</b>	Part 2.1049
<b>Test Method Used:</b>	As detailed in KDB 971168 Section 4.2

**Environmental Conditions:**

<b>Temperature (°C):</b>	25
<b>Relative Humidity (%):</b>	39

**Note(s):**

1. Occupied bandwidth (99% bandwidth) was measured using a test receiver occupied bandwidth function.
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.
3. The RF port of the EUT was connected to the spectrum analyser via RF cables, directional coupler and suitable attenuation.

**Transmitter Occupied Bandwidth (continued)**

**Results: 5 MHz Channel Bandwidth / Bottom Channel / QPSK**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (MHz)
706.5	25	0	50	200	4.486
706.5	12	6	50	200	2.229



**QPSK / 25 Resource Blocks (0 Offset)**

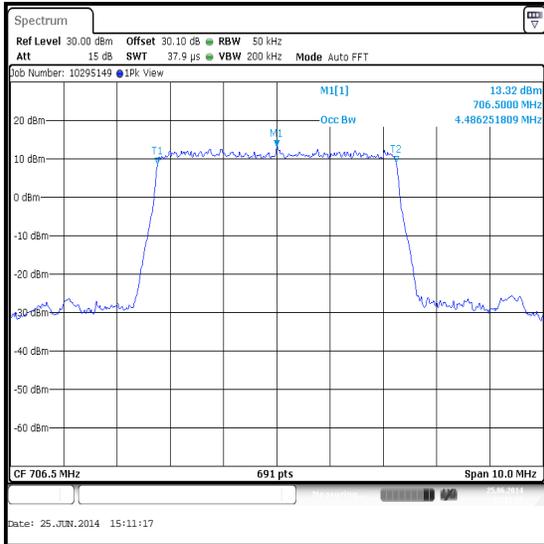


**QPSK / 12 Resource Blocks (6 Offset)**

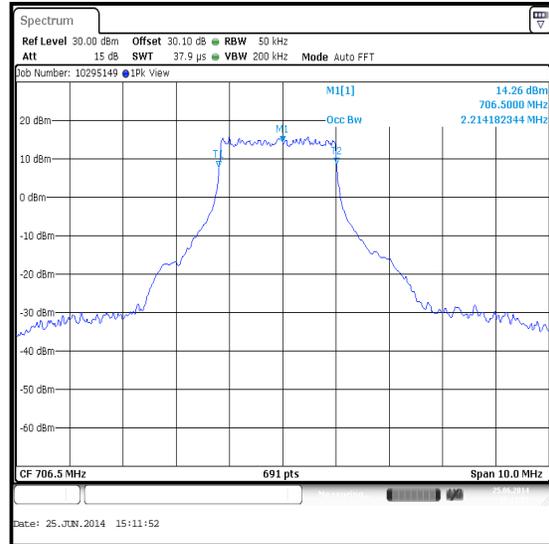
**Transmitter Occupied Bandwidth (continued)**

**Results: 5 MHz Channel Bandwidth / Bottom Channel / 16QAM**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (MHz)
706.5	25	0	50	200	4.486
706.5	12	6	50	200	2.214



**16QAM / 25 Resource Blocks (0 Offset)**

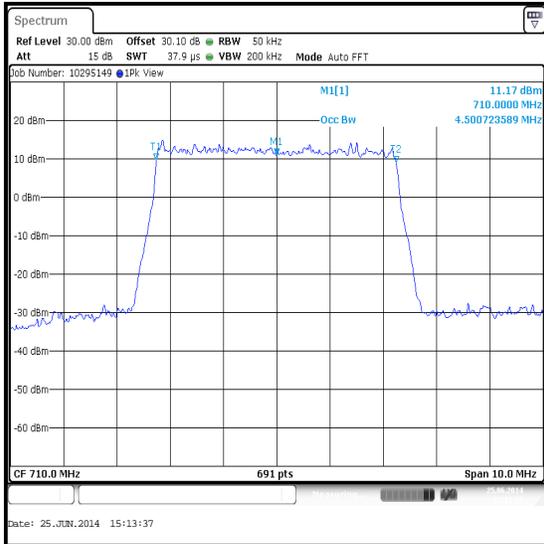


**16QAM / 12 Resource Blocks (6 Offset)**

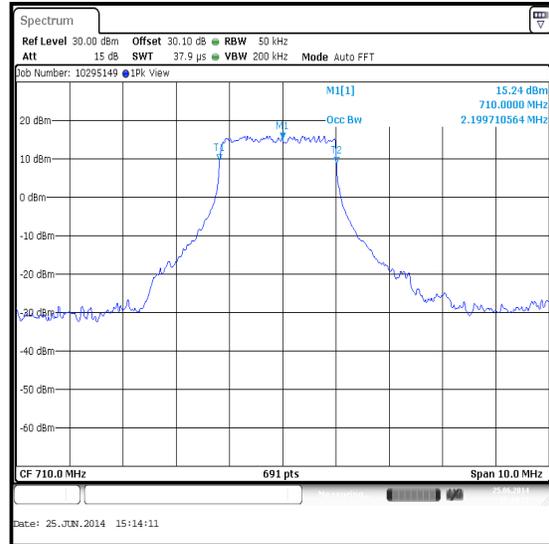
**Transmitter Occupied Bandwidth (continued)**

**Results: 5 MHz Channel Bandwidth / Middle Channel / QPSK**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (MHz)
710.0	25	0	50	200	4.501
710.0	12	6	50	200	2.200



**QPSK / 25 Resource Blocks (0 Offset)**



**QPSK / 12 Resource Blocks (6 Offset)**

**Transmitter Occupied Bandwidth (continued)**

**Results: 5 MHz Channel Bandwidth / Middle Channel / 16QAM**

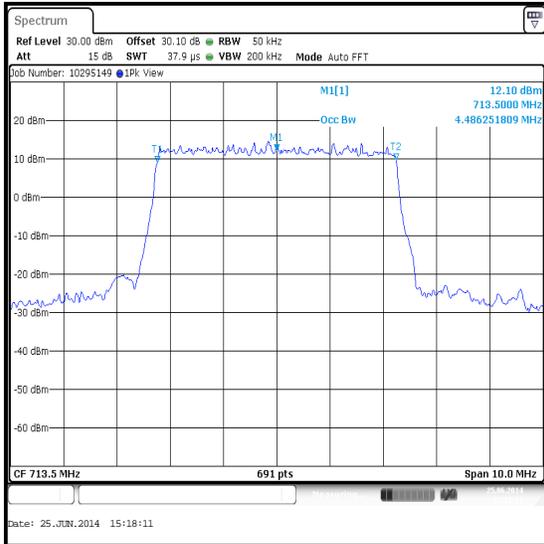
Frequency (MHz)	Resource Block(s)	Resource Block Offset	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (MHz)
710.0	25	0	50	200	4.486
710.0	12	6	50	200	2.200



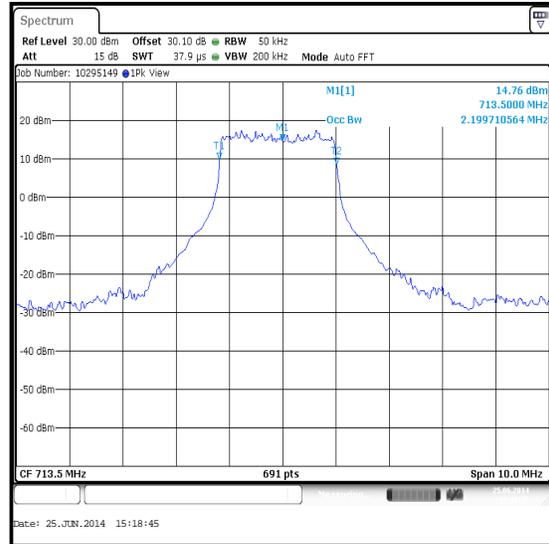
**Transmitter Occupied Bandwidth (continued)**

**Results: 5 MHz Channel Bandwidth / Top Channel / QPSK**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (MHz)
713.5	25	0	50	200	4.486
713.5	12	6	50	200	2.200



**QPSK / 25 Resource Blocks (0 Offset)**

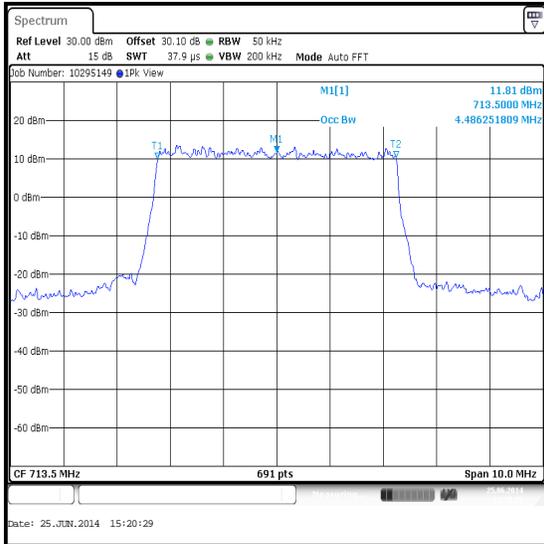


**QPSK / 12 Resource Blocks (6 Offset)**

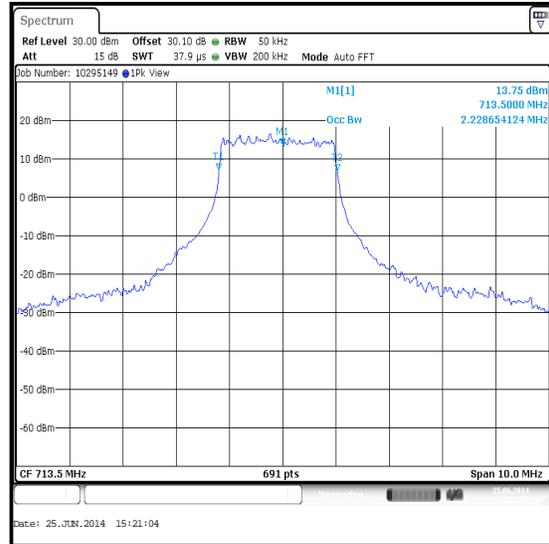
**Transmitter Occupied Bandwidth (continued)**

**Results: 5 MHz Channel Bandwidth / Top Channel / 16QAM**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (MHz)
713.5	25	0	50	200	4.486
713.5	12	6	50	200	2.229



**16QAM / 25 Resource Blocks (0 Offset)**

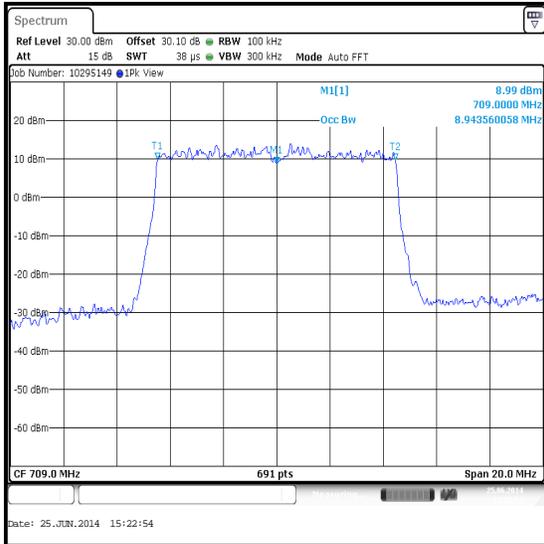


**16QAM / 12 Resource Blocks (6 Offset)**

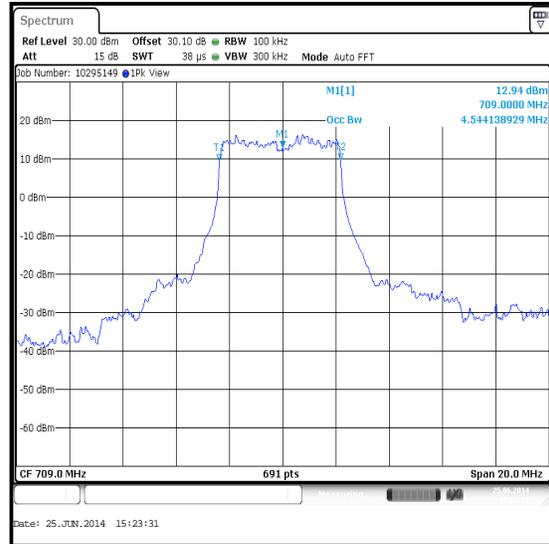
**Transmitter Occupied Bandwidth (continued)**

**Results: 10 MHz Channel Bandwidth / Bottom Channel / QPSK**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (MHz)
709.0	50	0	100	300	8.944
709.0	25	12	100	300	4.544



**QPSK / 50 Resource Blocks (0 Offset)**

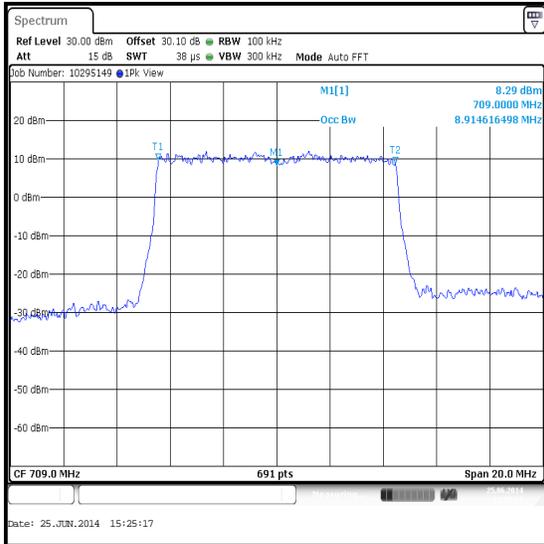


**QPSK / 25 Resource Blocks (12 Offset)**

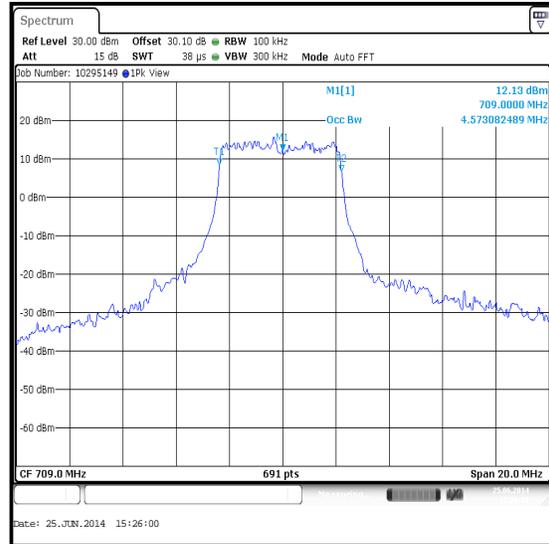
**Transmitter Occupied Bandwidth (continued)**

**Results: 10 MHz Channel Bandwidth / Bottom Channel / 16QAM**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (MHz)
709.0	50	0	100	300	8.915
709.0	25	12	100	300	4.573



**16QAM / 50 Resource Blocks (0 Offset)**

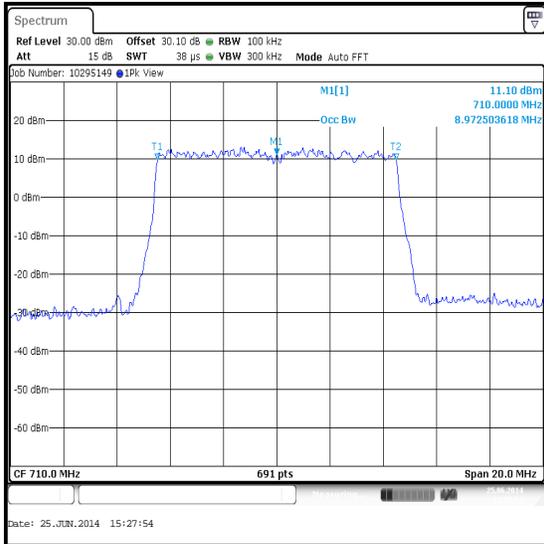


**16QAM / 25 Resource Blocks (12 Offset)**

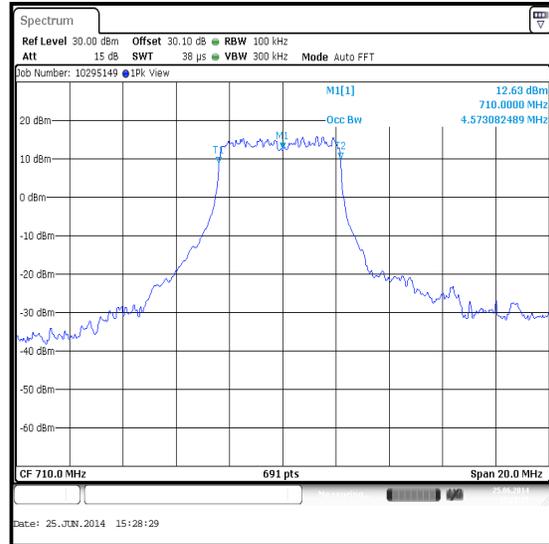
**Transmitter Occupied Bandwidth (continued)**

**Results: 10 MHz Channel Bandwidth / Middle Channel / QPSK**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (MHz)
710.0	50	0	100	300	8.973
710.0	25	12	100	300	4.573



**QPSK / 50 Resource Blocks (0 Offset)**

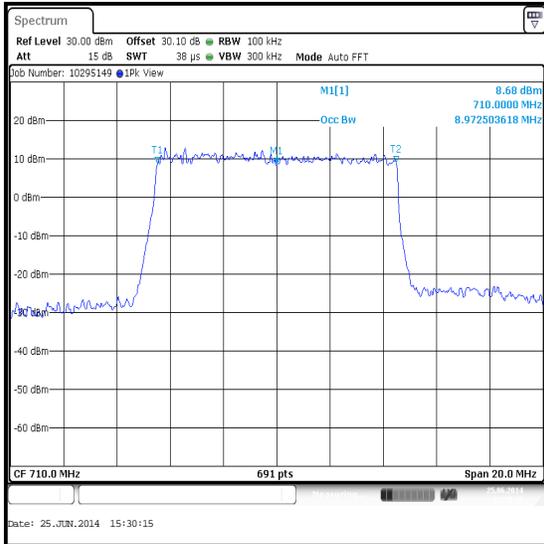


**QPSK / 25 Resource Blocks (12 Offset)**

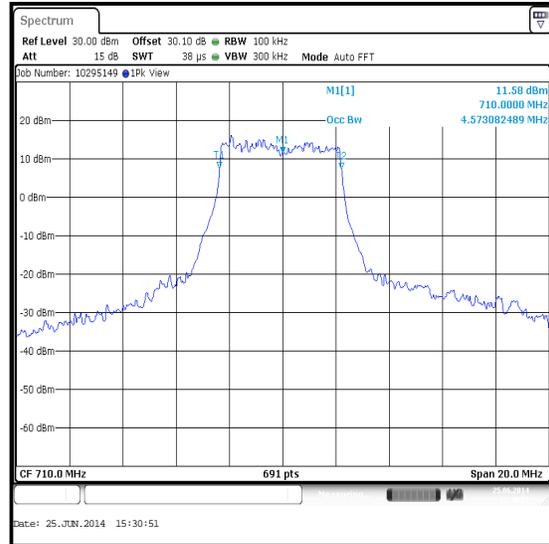
**Transmitter Occupied Bandwidth (continued)**

**Results: 10 MHz Channel Bandwidth / Middle Channel / 16QAM**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (MHz)
710.0	50	0	100	300	8.973
710.0	25	12	100	300	4.573



**16QAM / 50 Resource Blocks (0 Offset)**

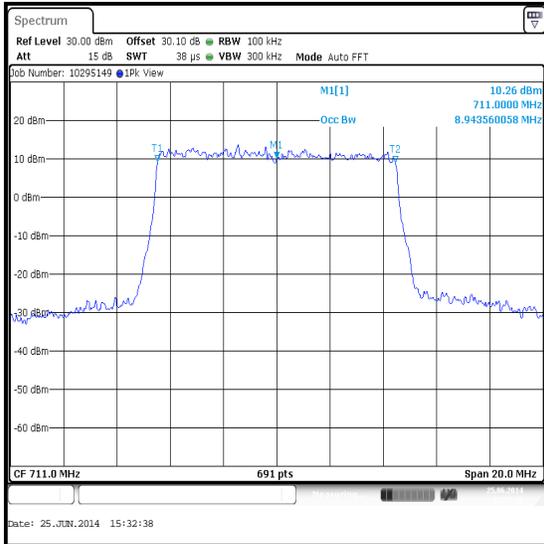


**16QAM / 25 Resource Blocks (12 Offset)**

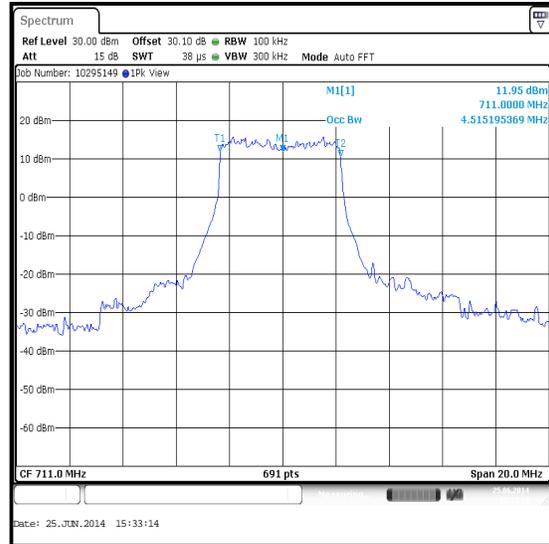
**Transmitter Occupied Bandwidth (continued)**

**Results: 10 MHz Channel Bandwidth / Top Channel / QPSK**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (MHz)
711.0	50	0	100	300	8.944
711.0	25	12	100	300	4.515



**QPSK / 50 Resource Blocks (0 Offset)**

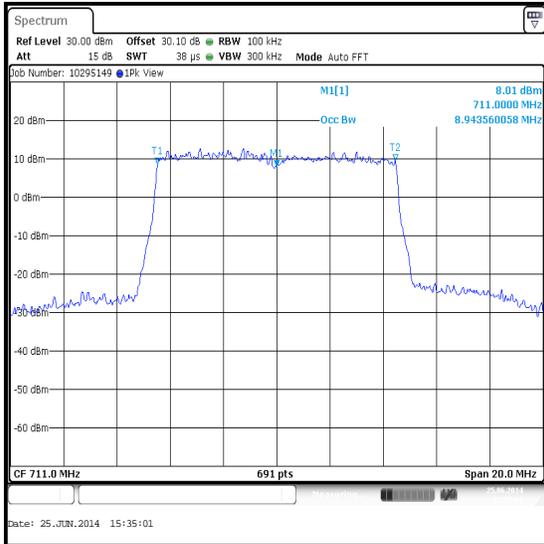


**QPSK / 25 Resource Blocks (12 Offset)**

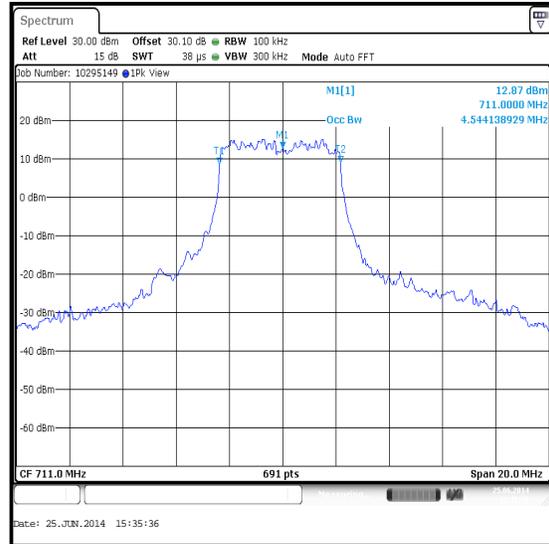
**Transmitter Occupied Bandwidth (continued)**

**Results: 10 MHz Channel Bandwidth / Top Channel / 16QAM**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Resolution Bandwidth (kHz)	Video Bandwidth (kHz)	Occupied Bandwidth (MHz)
711.0	50	0	100	300	8.944
711.0	25	12	100	300	4.544



**16QAM / 50 Resource Blocks (0 Offset)**



**16QAM / 25 Resource Blocks (12 Offset)**

**Test Equipment Used:**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1659	Thermohygrometer	JM Handelspunkt	30.5015.13	None stated	14 Mar 2015	12
L1127	Signal Analyser	Rohde & Schwarz	FSV13	100863	24 Apr 2015	12
A2535	Directional Coupler	AtlanTecRF	CDC-003060-20	14041701719	Calibrated before use	-
A2508	Attenuator	AtlanTecRF	AN18-10	821846#3	Calibrated before use	-
S0557	DC Power Supply	TTI	EL303R	395819	Calibrated before use	-
M1251	Digital Multimeter	Fluke	175	8717019	19 May 2015	12
G0608	Signal Generator	Rohde & Schwarz	SMIQ 06B	838341/033	14 Feb 2015	12
M1009	Power Meter	Hewlett Packard	437B	3125U13706	04 Feb 2015	12
M1592	Power Sensor	Hewlett Packard	8487A	3318A02094	28 Aug 2014	12

**5.2.3. Transmitter Radiated Spurious Emissions****Test Summary:**

<b>Test Engineers:</b>	Andrew Edwards & David Doyle	<b>Test Dates:</b>	26 June 2014 & 27 June 2014
<b>Test Sample IMEI:</b>	004402452687712		

<b>FCC Reference:</b>	Parts 2.1053 & 27.53(f)
<b>Test Method Used:</b>	As detailed in KDB 971168 Section 6.1 referencing FCC Part 2.1053
<b>Frequency Range:</b>	30 MHz to 8 GHz
<b>Configuration:</b>	10 MHz, QPSK, 1RB, 0 Offset

**Environmental Conditions:**

<b>Temperature (°C):</b>	24 to 26
<b>Relative Humidity (%):</b>	29 to 44

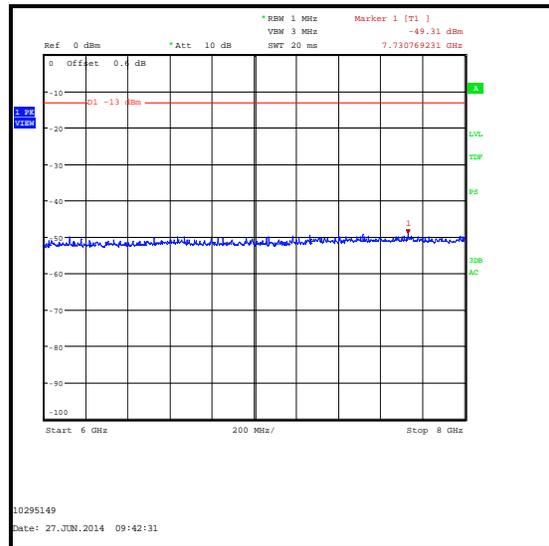
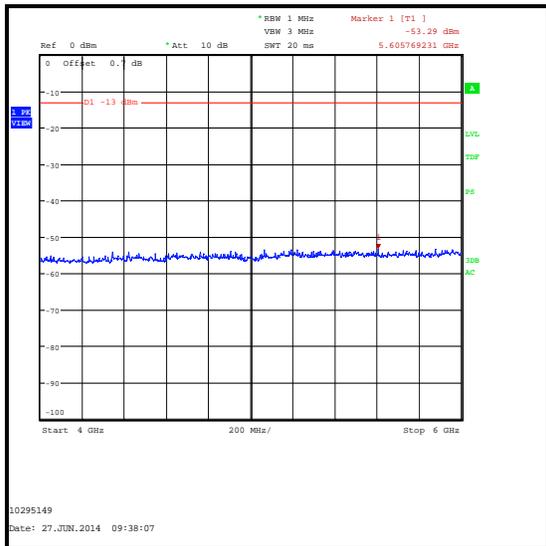
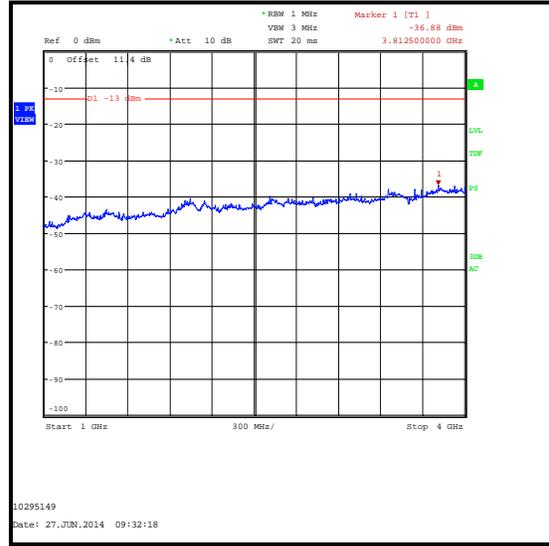
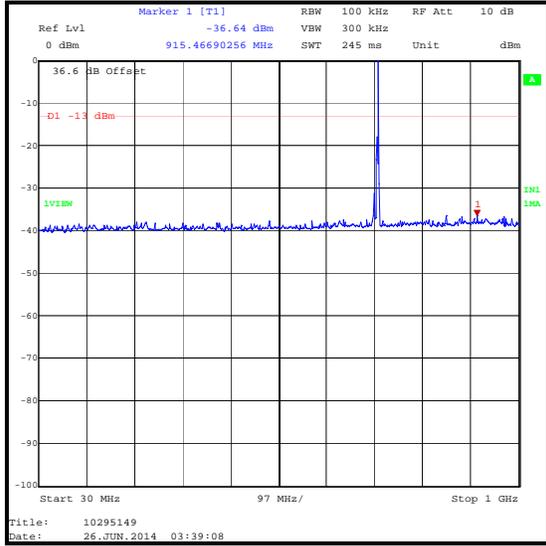
**Note(s):**

1. The EUT was set to transmit with a 10 MHz channel bandwidth with QPSK modulation applied and 1 resource block with 0 offset, as 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.
2. The emission seen on the 30 MHz to 1 GHz plot at approximately 711 MHz is the EUT carrier.
3. No spurious emissions were detected above the measurement system noise floor therefore the highest peak noise floor reading of the measuring receiver was recorded in the table below.
4. Measurements below 1 GHz were performed in a semi-anechoic chamber (Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
5. Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number K0002) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

**Results:**

<b>Frequency (MHz)</b>	<b>Peak Level (dBm)</b>	<b>Limit (dBm)</b>	<b>Margin (dB)</b>	<b>Result</b>
915.467	-36.6	-13.0	23.6	Complied

### Transmitter Radiated Spurious Emissions (continued)



**Transmitter Radiated Spurious Emissions (continued)****Test Equipment Used:**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1622	Thermohygrometer	JM Handelspunkt	30.5015.13	None stated	31 Dec 2014	12
K0001	5m RSE Chamber	Rainford EMC	N/A	N/A	26 Nov 2014	12
M1273	Test Receiver	Rohde & Schwarz	ESIB26	100275	15 Feb 2015	12
G0543	Pre-Amplifier	Sonoma	310N	230801	19 Aug 2014	3
A490	Antenna	Chase	CBL6111A	1590	29 Apr 2015	12
A1834	Attenuator	Hewlett Packard	8491B	10444	15 Nov 2014	12
A1393	Attenuator	Huber & Suhner	6820.17.B	757456	02 May 2015	12
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	14 Nov 2014	12
M1874	Test Receiver	Rohde & Schwarz	ESU26	100553	13 May 2015	12
A1534	Pre-Amplifier	Hewlett Packard	8449B	3008A00405	18 May 2015	12
A1818	Antenna	EMCO	3115	00075692	14 Nov 2014	12
A253	Antenna	Flann Microwave	12240-20	128	14 Nov 2014	12
A254	Antenna	Flann Microwave	142240-20	139	14 Nov 2014	12
A1396	Attenuator	Huber & Suhner	6810.17.B	757987	02 May 2015	12
A148	High Pass Filter	AtlanTechRF	5H036	32218	17 May 2015	12
M1656	Thermohygrometer	JM Handelspunkt	30.5015.13	None stated	14 Mar 2015	12

**5.2.4. Transmitter Radiated Emissions at Band Edges****Test Summary:**

<b>Test Engineer:</b>	David Doyle	<b>Test Date:</b>	27 June 2014
<b>Test Sample IMEI:</b>	004402452687712		

<b>FCC Reference:</b>	Parts 2.1053 & 27.53(f)
<b>Test Method Used:</b>	As detailed in KDB 971168 Section 6.1 referencing FCC Part 27.53

**Environmental Conditions:**

<b>Temperature (°C):</b>	24
<b>Relative Humidity (%):</b>	44

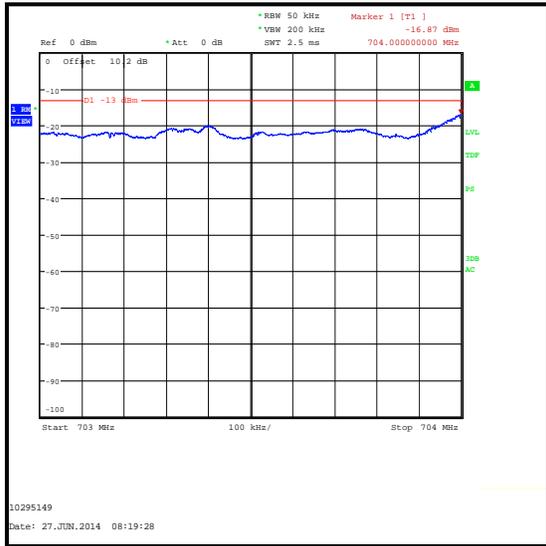
**Note(s):**

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

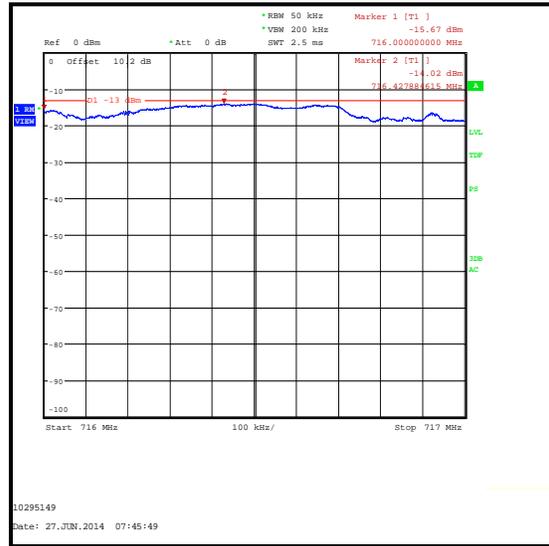
**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: 5 MHz Channel Bandwidth / QPSK**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
704	25	0	-16.9	-13.0	3.9	Complied
716	25	0	-15.7	-13.0	2.7	Complied
716.428	25	0	-14.0	-13.0	1.0	Complied



**QPSK / Lower Band Edge**

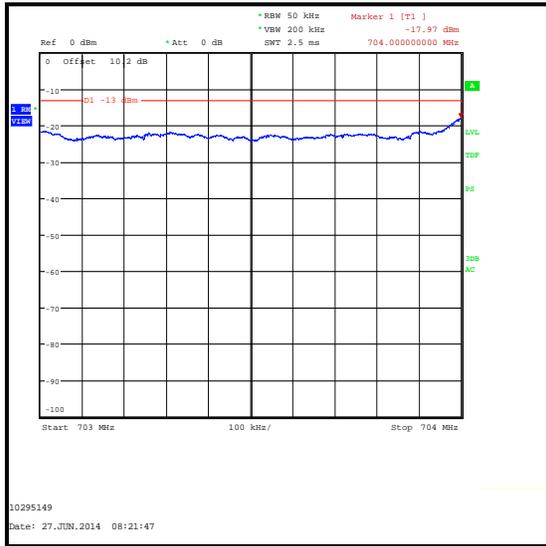


**QPSK / Upper Band Edge**

**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: 5 MHz Channel Bandwidth / 16QAM**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
704	25	0	-18.0	-13.0	5.0	Complied
716	25	0	-16.3	-13.0	3.3	Complied
716.436	25	0	-15.3	-13.0	2.3	Complied



**16QAM / Lower Band Edge**

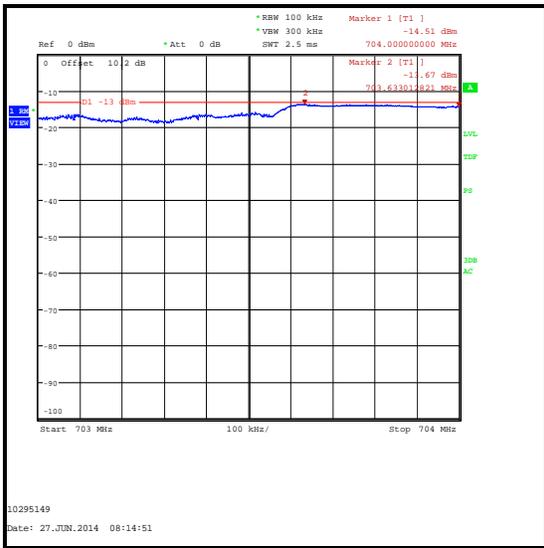


**16QAM / Upper Band Edge**

**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: 10 MHz Channel Bandwidth / QPSK**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
703.633	50	0	-13.7	-13.0	0.7	Complied
704	50	0	-14.5	-13.0	1.5	Complied
716	50	0	-16.2	-13.0	3.2	Complied
716.761	50	0	-14.5	-13.0	1.5	Complied



**QPSK / Lower Band Edge**

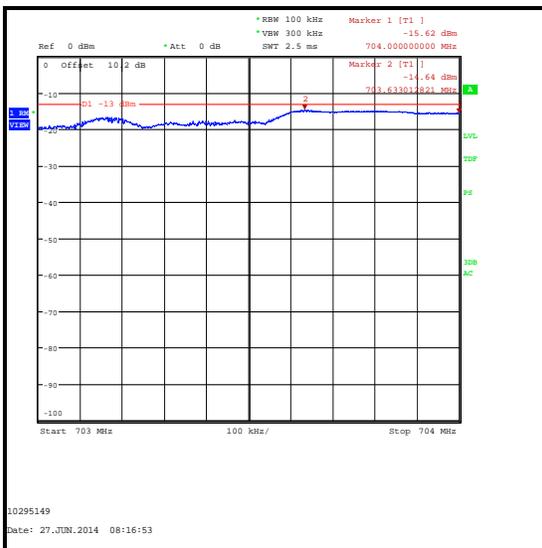


**QPSK / Upper Band Edge**

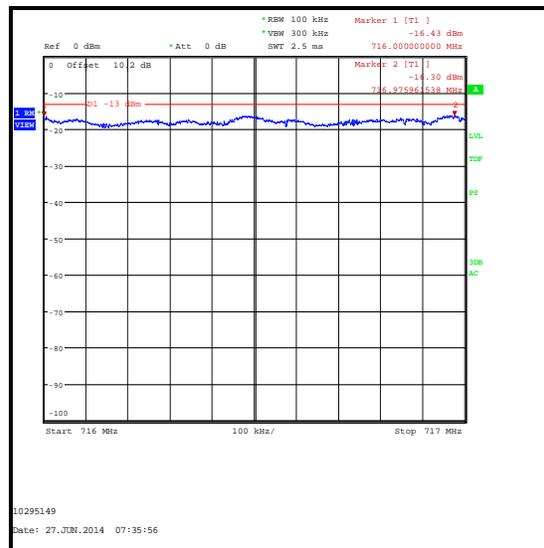
**Transmitter Radiated Emissions at Band Edges (continued)**

**Results: 10 MHz Channel Bandwidth / 16QAM**

Frequency (MHz)	Resource Block(s)	Resource Block Offset	Emission Level (dBm)	Limit (dBm)	Margin (dB)	Result
703.633	50	0	-14.6	-13.0	1.6	Complied
704	50	0	-15.6	-13.0	2.6	Complied
716	50	0	-16.4	-13.0	3.4	Complied
716.976	50	0	-16.3	-13.0	3.3	Complied



16QAM / Lower Band Edge



16QAM / Upper Band Edge

**Test Equipment Used:**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1656	Thermohygrometer	JM Handlungspunkt	30.5015.13	None stated	14 Mar 2015	12
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	14 Nov 2014	12
M1874	Test Receiver	Rohde & Schwarz	ESU26	100553	15 May 2015	12
A288	Antenna	Chase	CBL6111A	1589	20 Aug 2014	12
A1396	Attenuator	Huber & Suhner	6810.17.B	757987	02 May 2015	12

**5.2.5. Transmitter Frequency Stability (Temperature Variation)****Test Summary:**

<b>Test Engineer:</b>	Mark Percival	<b>Test Dates:</b>	24 June 2014 & 25 June 2014
<b>Test Sample IMEI:</b>	004402452690575		

<b>FCC Reference:</b>	Parts 2.1055 & 27.54
<b>Test Method Used:</b>	As detailed in KDB 971168 Section 9.0 referencing ANSI TIA-603-C-2004 Section 2.2.2 and FCC Part 2.1055

**Environmental Conditions:**

<b>Temperature (°C):</b>	22 to 25
<b>Relative Humidity (%):</b>	36 to 55

**Note(s):**

1. A voltage variation jig was connected to the EUT which was powered via a bench power supply at the nominal voltage of 3.8 V.
2. Frequency error was measured using a calibrated Rohde and Schwarz CMW 500 Universal Radio Communications Tester in accordance with current Rohde and Schwarz application notes. The EUT was connected by suitable RF cables to the CMW 500. A bi-directional communications link was established between the EUT and CMW 500. The frequency meter value was recorded.
3. Temperature was monitored throughout the test with a calibrated digital thermometer.

**Transmitter Frequency Stability (Temperature Variation) (continued)****Results: Bottom Channel (706.5 MHz)**

Temperature (°C)	Frequency Error (Hz)	Measured Frequency (MHz)	Lower Band Edge Limit (MHz)	Margin (MHz)	Result
-30	5	706.499995	704	2.499995	Complied
-20	4	706.499996	704	2.499996	Complied
-10	4	706.500004	704	2.500004	Complied
0	4	706.499996	704	2.499996	Complied
10	3	706.499997	704	2.499997	Complied
20	4	706.499996	704	2.499996	Complied
30	4	706.499996	704	2.499996	Complied
40	4	706.499996	704	2.499996	Complied
50	4	706.499996	704	2.499996	Complied

**Results: Top Channel (713.5 MHz)**

Temperature (°C)	Frequency Error (Hz)	Measured Frequency (MHz)	Upper Band Edge Limit (MHz)	Margin (MHz)	Result
-30	5	713.499995	716	2.500005	Complied
-20	5	713.499995	716	2.500005	Complied
-10	4	713.499996	716	2.500004	Complied
0	3	713.499997	716	2.500003	Complied
10	4	713.499996	716	2.500004	Complied
20	6	713.499994	716	2.500006	Complied
30	5	713.499995	716	2.500005	Complied
40	4	713.499996	716	2.500004	Complied
50	5	713.499995	716	2.500005	Complied

**Test Equipment Used:**

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1659	Thermohyrometer	JM Handelpunkt	30.5015.13	None stated	14 Mar 2015	12
M1870	Wideband Radio Comms Tester	Rohde & Schwarz	CMW500	145919	05 May 2015	12
E0513	Environmental Chamber	TAS	LT600 Series 3	23900506	Calibrated before use	-
M1249	Thermometer	Fluke	52II	88800049	02 May 2015	12
S021	Dual DC power supply	TTi	CPX200	061034	Calibrated before use	-
M1251	Multimeter	Fluke	175	89170179	19 May 2015	12

**5.2.6. Transmitter Frequency Stability (Voltage Variation)****Test Summary:**

<b>Test Engineer:</b>	Mark Percival	<b>Test Date:</b>	23 June 2014
<b>Test Sample IMEI:</b>	004402452690575		

<b>FCC Reference:</b>	Parts 2.1055 & 27.54
<b>Test Method Used:</b>	As detailed in KDB 971168 Section 9.0 referencing ANSI TIA-603-C-2004 Section 2.2.2 and FCC Part 2.1055

**Environmental Conditions:**

<b>Temperature (°C):</b>	24
<b>Relative Humidity (%):</b>	38

**Note(s):**

1. A voltage variation jig was connected to the EUT which was powered via a bench power supply.
2. Frequency error was measured using a calibrated Rohde and Schwarz CMW 500 Universal Radio Communications Tester in accordance with current Rohde and Schwarz application notes. The EUT was connected by suitable RF cables to the CMW 500. A bi-directional communications link was established between the EUT and CMW 500. The frequency meter value was recorded.
3. Voltage was monitored throughout the test with a calibrated digital voltmeter.

**Results: Bottom Channel (706.5 MHz)**

Supply Voltage (V)	Frequency Error (Hz)	Measured Frequency (MHz)	Lower Band Edge Limit (MHz)	Margin (MHz)	Result
3.42	5	706.500005	704	2.500005	Complied
4.18	5	706.500005	704	2.500005	Complied

**Results: Top Channel (713.5 MHz)**

Supply Voltage (V)	Frequency Error (Hz)	Measured Frequency (MHz)	Upper Band Edge Limit (MHz)	Margin (MHz)	Result
3.42	6	713.499994	716	2.500006	Complied
4.18	5	713.499995	716	2.500005	Complied

**Transmitter Frequency Stability (Voltage Variation) (continued)****Test Equipment Used:**

<b>Asset No.</b>	<b>Instrument</b>	<b>Manufacturer</b>	<b>Type No.</b>	<b>Serial No.</b>	<b>Date Calibration Due</b>	<b>Cal. Interval (Months)</b>
M1659	Thermohygrometer	JM Handlungspunkt	30.5015.13	None stated	14 Mar 2015	12
M1870	Wideband Radio Comms Tester	Rohde & Schwarz	CMW500	145919	05 May 2015	12
S021	Dual DC power supply	TTi	CPX200	061034	Calibrated before use	-
M1251	Multimeter	Fluke	175	89170179	19 May 2015	12

## **6. Measurement Uncertainty**

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

<b>Measurement Type</b>	<b>Range</b>	<b>Confidence Level (%)</b>	<b>Calculated Uncertainty</b>
Conducted Output Power	704 MHz to 716 MHz	95%	±1.13 dB
Frequency Stability	704 MHz to 716 MHz	95%	±23 Hz
Occupied Bandwidth	704 MHz to 716 MHz	95%	±3.92 %
Radiated Spurious Emissions	30 MHz to 1 GHz	95%	±5.65 dB
Radiated Spurious Emissions	1 GHz to 8 GHz	95%	±2.94 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

## **7. Report Revision History**

Version Number	Revision Details		
	Page No(s)	Clause	Details
1.0	-	-	Initial Version
2.0	-	-	EUT Description update

--- END OF REPORT ---