

C2PC CERTIFICATION TEST REPORT

Report Number. : 16U23577-E2V2

Applicant: SONY MOBILE COMMUNICATIONS INC.

4-12-3 HIGASHI-SHINAGAWA,

SHINAGAWA -KU, TOKYO, 140-0002, JAPAN

FCC ID: PY7-PM0903

EUT Description : GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS/UNII

a/b/g/n/ac, ANT+ & NFC

Test Standard(s): FCC CFR47 PART 22 SUBPART H

FCC CFR47 PART 90 SUBPART S

Date of Issue:

Tuesday, June 07, 2016

Prepared by:

UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538, U.S.A.

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NVLAP LAB CODE 200065-0

REPORT NO: 16U23577-E2V1 DATE: 6/7/2016 FCC ID: PY7-PM0903

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	6/3/2016	Initial Issue	C.S.00I
V2	6/7/2016	Updated Section 14.1 and 15	J. WU

FAX: (510) 661-0888

DATE: 6/7/2016

TABLE OF CONTENTS

1.	ATTESTATION OF TEST RESULTS	. 5
2.	TEST METHODOLOGY	. 6
3.	FACILITIES AND ACCREDITATION	. 6
4.	CALIBRATION AND UNCERTAINTY	. 6
4.1.	MEASURING INSTRUMENT CALIBRATION	. 6
4.2.	SAMPLE CALCULATION	. 6
4.3.	MEASUREMENT UNCERTAINTY	. 7
5.	EQUIPMENT UNDER TEST	. 8
5.1.	DESCRIPTION OF EUT	. 8
5.2.	MAXIMUM OUTPUT POWER (LTE)	. 9
5.3.	DESCRIPTION OF AVAILABLE ANTENNAS	10
5.4.	DESCRIPTION OF TEST SETUP	11
6.	TEST AND MEASUREMENT EQUIPMENT	
7.	SUMMARY TABLE	15
8.	RF POWER OUTPUT VERIFICATION	16
8.1.	LTE OUTPUT POWER RESULT	16
9.	PEAK TO AVERAGE RATIO	19
9.1.	CONDUCTED PEAK TO AVERAGE RESULT	20
10.	OCCUPIED BANDWIDTH	
10.	1. OCCUPIED BANDWIDTH RESULTS AND PLOTS	23
11.	BAND EDGE EMISSIONS	26
11.	1. BAND EDGE PLOTS	27
11.2	2. EMISSION MASK PLOTS	34
12.	OUT OF BAND EMISSIONS	37
12.	1. OUT OF BAND EMISSIONS RESULT AND PLOTS	38
13.	FREQUENCY STABILITY	41
13.	1. FREQUENCY STABILITY RESULTS	42
14.	RADIATED TEST RESULTS	43
14.	1. RADIATED POWER (ERP & EIRP)	43
1.	4.1.1. ERP/EIRP RESULTS AND TABLE	44
14.2	2. FIELD STRENGTH OF SPURIOUS RADIATION	47
1	4.2.1. SPURIOUS RADIATION PLOTS	48
	Page 3 of 53	

REPORT NO: 16U23577-E2V1	DATE: 6/7/2016
FCC ID: PY7-PM0903	

15.	SETUP PHOTOS	50
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FAX: (510) 661-0888

FCC ID: PY7-PM0903

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SONY MOBILE COMMUNICATIONS, INC.

EUT DESCRIPTION: GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS/UNII a/b/g/n/ac, ANT+ & NFC

SERIAL NUMBER: BH9000QY4F (Conducted), BH9000A33N (Radiated), BH9000EM3N

(Radiated)

DATE TESTED: June 2- 3, 2016

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC PART 22H, 90S PASS

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For

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UL VERIFICATION SERVICES INC

FCC ID: PY7-PM0903

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-D, FCC CFR 47 Part 22, and FCC CFR 47 Part 90.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
Chamber A	Chamber D
Chamber B	Chamber E
Chamber C	Chamber F
	Chamber G
	Chamber H

The above test sites and facilities are covered under FCC Test Firm Registration # 208313.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0.

Chambers A through H are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-8, respectively.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

EIRP = PSA reading with EUT worst orientation (dBm) + Path loss (dB) – cable loss(

between the SG and substitution antenna) + Substitution Antenna Factor (dBi)

ERP = PSA reading with EUT worst orientation (dBm) + Path loss (dB) – cable loss(

between the SG and substitution antenna)

(Path loss = Signal generator output – PSA reading with substitution antenna)

FCC ID: PY7-PM0903

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 9KHz to 30 MHz	2.14 dB
Radiated Disturbance, 30 to 1000 MHz	4.98 dB
Radiated Disturbance,1000 to 6000 MHz	3.86 dB
Radiated Disturbance,6000 to 18000 MHz	4.23 dB
Radiated Disturbance,18000 to 26000 MHz	5.30 dB
Radiated Disturbance,26000 to 40000 MHz	5.23 dB

Uncertainty figures are valid to a confidence level of 95%.

FCC ID: PY7-PM0903

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

This EUT is a GSM/WCDMA/LTE PHONE + BLUETOOTH, DTS/UNII a/b/g/n/ac, ANT+ & NFC

C2PC Reason: Adding LTE Band 26

FCC ID: PY7-PM0903

5.2. MAXIMUM OUTPUT POWER (LTE)

The transmitter has a maximum peak conducted and radiated ERP output powers as follows:

LTE Band 26 PART 90

FCC Part 90								
Band	Frequency	BandWidth	Modulation	Conducted		Radi	diated	
	Range(MHz)	(MHz)		AVG(dBm)	AVG(mW)	AVG(dBm)	Bm) AVG(mW)	
		1.4MHz	QPSK	23.9	245.47	22.01	158.85	
			16QAM	22.9	194.98	19.50	89.13	
		3MHz	QPSK	23.9	245.47	21.45 139.64	139.64	
LTE26	814~824		16QAM	23.1	204.17	20.82	141.25	
		5MHz	QPSK	23.9	245.47	21.50		
			16QAM	23.0	199.53	20.63		
		10MHz	QPSK	23.9	245.47	21.83	152.41	
			16QAM	23.20	208.93	20.74	118.58	

LTE Band 26 PART 22

FCC Part 22								
Band	Frequency	BandWidth	Modulation	Conducted		Radi	ated	
	Range(MHz)	(MHz)		AVG(dBm)	AVG(mW)	AVG(dBm)	AVG(mW)	
		1.4MHz	QPSK	23.7	234.42	21.00	125.89	
			16QAM	22.9	194.98	20.20	104.71	
	824~849	3MHz	QPSK	23.7	234.42	20.89	122.74	
			16QAM	22.9	194.98	20.57	114.02	
LTE26		5MHz	QPSK	23.9	245.47	21.02	126.47	
			16QAM	23.0	199.53	20.09	102.09	
	1	10MHz	QPSK	23.9	245.47	21.22	132.43	
			16QAM	23.0	199.53	20.30	107.15	
		15MHz QPSK 2	23.9	245.47	21.69	147.57		
			16QAM	23.1	204.17	20.88	122.46	

FCC ID: PY7-PM0903

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PIFA antenna for the [List the bands supported] with a maximum peak gain as follow:

Frequency (MHz)	Peak Gain (dBi)
LTE Band 26, 814~849MHz	-3.3

FCC ID: PY7-PM0903

5.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List								
Description	Description Manufacturer Model Serial Number FCC ID							
AC Adapter	SONY	SEM0809	5815W29100038	N/A				
Earphone	Earphone SONY N/A N/A N/A							

I/O CABLES (CONDUCTED SETUP)

	I/O Cable List								
Cable No	Port	# of Identical ports	Connector Type	Serial Type	Cable Length (m)	Remarks			
1	RF Out	1	Spectrum	Shielded	None	NA			
			Analyzer						
2	Antenna Port	1	EUT	Shielded	0.1m	NA			
3	RF In/Out	1	Communication	Shielded	1m	NA			
			Test Set						

I/O CABLES (RADIATED SETUP)

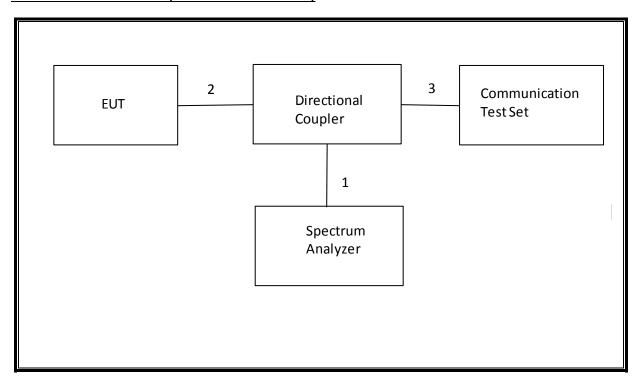
	I/O Cable List								
Cable No	Port	# of Identical ports	Connector Type	Serial Type	Cable Length (m)	Remarks			
1	USB	1	AC Adapter	Un-shielded	1.2m	No			
2	Jack	1	Headset	Shielded	1m	No			
3	RF In/out	1	Communication Test Set	Un-shielded	2m	Yes			

TEST SETUP

The EUT is continuously communicated to the call box during the tests.

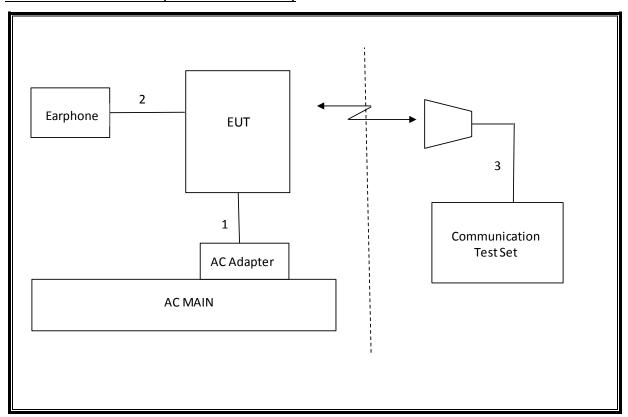
REPORT NO: 16U23577-E2V1 DATE: 6/7/2016 FCC ID: PY7-PM0903

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



FAX: (510) 661-0888

SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



FCC ID: PY7-PM0903

6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Software List								
Description	Manufacturer	Model	T Number	Cal Due				
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	123	10/22/16				
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	130	06/10/16				
Antenna, Horn, 18 GHz	EMCO	3115	59	11/18/16				
Highpass Filter, 2.7 GHz	Micro-Tronics	HPM13194	151	CNR				
Highpass Filter, 1.5 GHz	Micro-Tronics	HPM13193	153	CNR				
Temperature / Humidity Chamber	Thermotron	SE 600-10-10	80	11/16/16				
Communications Test Set	R&S	CMW500	958	05/26/17				
DC power supply, 8 V @ 3 A or 15 V @ 2 A	Agilent / HP	E3610A	None	CNR				
Vector signal generator, 6 GHz	Agilent / HP	E4438C	None	06/16/16				
Antenna, Tuned Dipole 400~1000 MHz	ETS	3121C DB4	273	05/16/17				
Directional Coupler	RF-Lambda	RFDC5M06G15	None	CNR				

Test Software List								
Description	Manufacturer	Model	Version					
Radiated Software	UL	UL EMC	Ver 9.5, June 24, 2015					
Conducted Software	UL	UL EMC	Ver 9.5, May 26, 2015					
CLT Software	UL	UL RF	Ver 1.0, Feb 2, 2015					
Antenna Port Software	UL	UL RF	Ver 3.7, Nov 12, 2015					

FCC ID: PY7-PM0903

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result
2.1049	Occupied Bandwidth (99%)	N/A		Pass
22.917(a) 90.691	Band Edge / Conducted Spurious Emission	-13dBm		Pass
2.1046	Conducted output power	N/A	Conducted	Pass
90.691	Emission Mask			Pass
22.355 90.213	Frequency Stability	2.5PPM		Pass
22.913(a)(2)	Effective Radiated Power	38dBm		Pass
90.635	Ellective natifated Power	50dBm	Radiated	Pass
22.917(a)	Radiated Spurious Emission	-13dBm		Pass

FCC ID: PY7-PM0903

8. RF POWER OUTPUT VERIFICATION

8.1. LTE OUTPUT POWER RESULT

LTE Band 26

		Mode			MPR		Avg Pwr (dBm)	
Band	BW (MHz)		RB Allocation	RB offset		26697	26865	27033
	(2)					814.7 MHz	831.5 MHz	848.3 MHz
			1	0	0	23.80	23.60	23.60
			1	3	0	23.80	23.60	23.40
			1	5	0	23.90	23.70	23.50
		QPSK	3	0	0	23.60	23.50	23.30
			3	1	0	23.70	23.50	23.30
			3	3	0	23.60	23.50	23.30
LTE	1.4		6	0	1	22.60	22.50	22.20
Band 26	1.4		1	0	1	22.80	22.90	22.80
			1	3	1	22.90	22.80	22.90
			1	5	1	22.90	22.90	22.70
		16QAM	3	0	1	22.70	22.60	22.40
			3	1	1	22.80	22.60	22.40
			3	3	1	22.70	22.50	22.40
			6	0	2	21.80	21.60	21.20
			RB Allocation	RB offset	MPR	Avg Pwr (dBm)		
Band	BW (MHz)	Mode				26705	26865	27025
						815.5 MHz	831.5 MHz	847.5 MHz
		QPSK	1	0	0	23.90	23.60	23.50
			1	8	0	23.70	23.70	23.50
			1	14	0	23.80	23.70	23.40
			8	0	1	22.60	22.60	22.30
			8	4	1	22.70	22.50	22.30
			8	7	1	22.60	22.60	22.30
LTE	3		15	0	1	22.60	22.60	22.20
Band 26	S		1	0	1	22.90	22.60	22.90
			1	8	1	22.80	22.50	22.60
			1	14	1	23.10	22.70	22.90
		16QAM	8	0	2	21.60	21.60	21.30
			8	4	2	21.60	21.60	21.30
			8	7	2	21.60	21.60	21.30
			15	0	2	21.60	21.60	21.30

FCC ID: PY7-PM0903

		Mode					Avg Pwr (dBm)	
Band	BW (MHz)		RB Allocation	RB offset	MPR	26715	26865	27015
	(1411 12)					816.5 MHz	831.5 MHz	846.5 MHz
			1	0	0	23.90	23.90	23.50
			1	12	0	23.80	23.80	23.20
			1	24	0	23.80	23.90	23.30
		QPSK	12	0	1	22.70	22.60	22.30
			12	7	1	22.60	22.70	22.30
			12	13	1	22.70	22.60	22.10
LTE	5		25	0	1	22.70	22.60	22.30
Band 26	3		1	0	1	23.00	22.80	23.00
			1	12	1	22.60	22.80	22.80
			1	24	1	22.90	22.80	22.80
		16QAM	12	0	2	21.70	21.60	21.50
			12	7	2	21.70	21.70	21.40
			12	13	2	21.70	21.70	21.30
			25	0	2	21.70	21.60	21.30
		Mode	RB Allocation	RB offset	MPR	Avg Pwr (dBm)		
Band	BW (MHz)					26740	26865	26990
	, ,					819 MHz	831.5 MHz	844 MHz
		QPSK	1	0	0	23.90	23.90	23.70
			1	25	0	23.80	23.60	23.60
			1	49	0	23.80	23.80	23.60
			25	0	1	22.70	22.70	22.40
			25	12	1	22.70	22.60	22.40
			25	25	1	22.70	22.70	22.40
LTE	10		50	0	1	22.70	22.70	22.40
Band 26	10		1	0	1	23.20	23.00	22.90
			1	25	1	23.20	22.70	22.90
			1	49	1	23.20	23.00	22.80
		16QAM	25	0	2	21.80	21.70	21.40
			25	12	2	21.80	21.60	21.40
			25	25	2	21.80	21.70	21.40
			50	0	2	21.80	21.60	21.30

FAX: (510) 661-0888

FCC ID: PY7-PM0903

Band BW		Mode			MPR		Avg Pwr (dBm)		
	BW (MHz)		RB Allocation	RB offset		26765	26865	26965	
	(2)		7 11100011011	0001		821.5 MHz	831.5 MHz	841.5 MHz	
			1	0	0	24.00	23.90	23.90	
			1	37	0	23.70	23.50	23.60	
			1	74	0	23.80	23.80	23.80	
		QPSK	36	0	1	22.90	22.60	22.70	
			36	20	1	22.90	22.70	22.70	
			36	39	1	22.80	22.60	22.70	
LTE	15		75	0	1	22.90	22.60	22.70	
Band 26	15	15 16QAM	1	0	1	23.20	22.80	23.10	
			1	37	1	23.20	22.50	22.90	
			1	74	1	23.20	22.80	23.00	
			36	0	2	21.80	21.60	21.70	
			36	20	2	21.80	21.60	21.70	
			36	39	2	21.80	21.60	21.60	
			75	0	2	21.90	21.60	21.70	

FCC ID: PY7-PM0903

9. PEAK TO AVERAGE RATIO

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

TEST SPEC

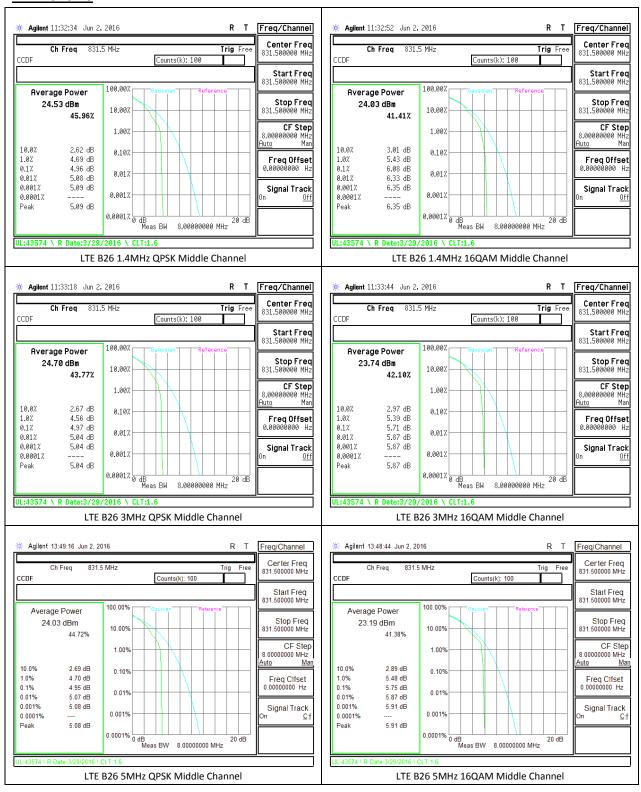
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

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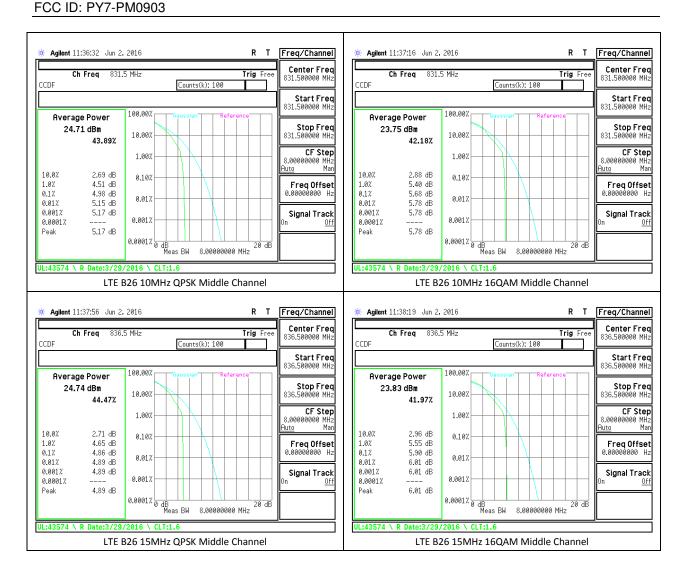
FCC ID: PY7-PM0903

9.1. CONDUCTED PEAK TO AVERAGE RESULT

LTE Band 26



Page 20 of 53



FCC ID: PY7-PM0903

10. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

(KDB 971168 D01 Power Meas License Digital Systems v02r02)

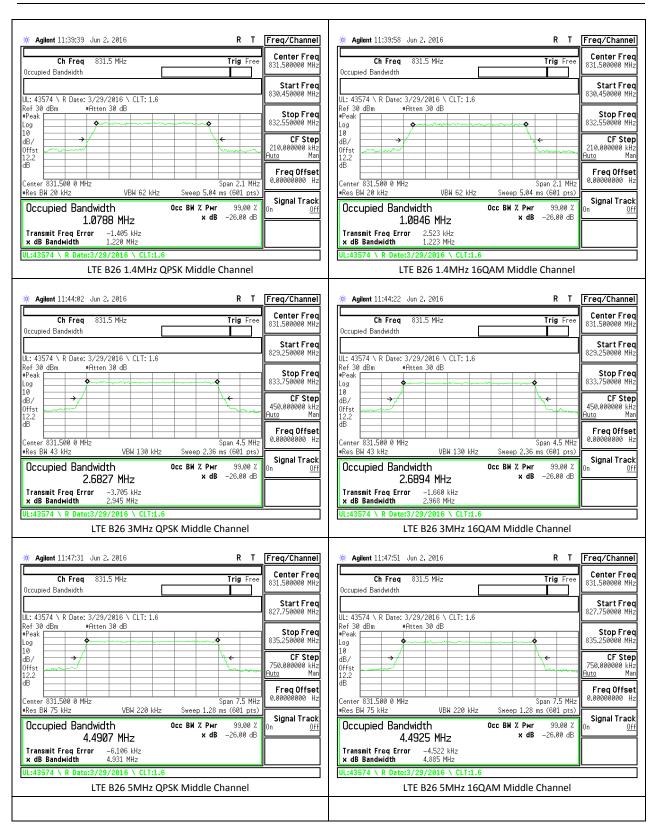
FCC ID: PY7-PM0903

10.1. OCCUPIED BANDWIDTH RESULTS AND PLOTS

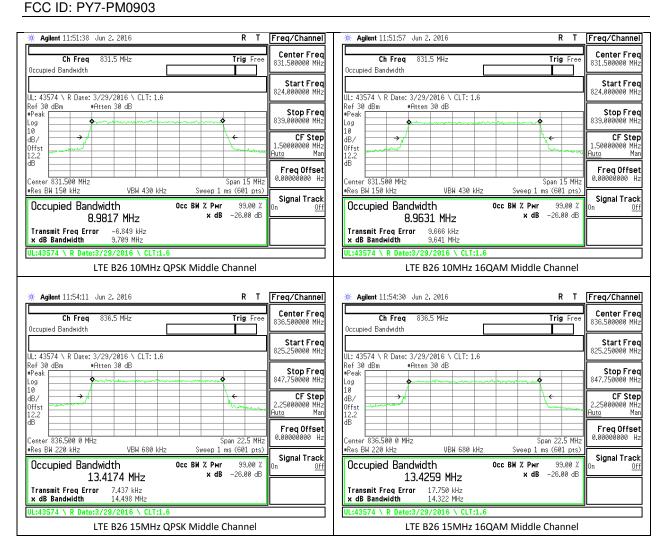
LTE Band 26

BW(MHz)	Mode	RB/RB Size	f (MHz)	99% BW (MHz)	-26dB BW (MHz)
1.4	QPSK	6/0	814.7	1.08	1.21
1.4	QPSK	6/0	831.5	1.08	1.22
1.4	QPSK	6/0	848.3	1.08	1.22
1.4	16QAM	6/0	814.7	1.08	1.22
1.4	16QAM	6/0	831.5	1.08	1.22
1.4	16QAM	6/0	848.3	1.09	1.24
3	QPSK	15/0	815.5	2.68	2.94
3	QPSK	15/0	831.5	2.68	2.94
3	QPSK	15/0	847.5	2.69	2.99
3	16QAM	15/0	815.5	2.69	2.99
3	16QAM	15/0	831.5	2.69	2.97
3	16QAM	15/0	847.5	2.68	2.96
5	QPSK	25/0	816.5	4.51	4.95
5	QPSK	25/0	831.5	4.49	4.93
5	QPSK	25/0	846.5	4.5	4.9
5	16QAM	25/0	816.5	4.48	4.9
5	16QAM	25/0	831.5	4.49	4.88
5	16QAM	25/0	846.5	4.5	4.94
10	QPSK	50/0	819	8.97	9.61
10	QPSK	50/0	831.5	8.98	9.71
10	QPSK	50/0	844	8.95	9.67
10	16QAM	50/0	819	8.95	9.73
10	16QAM	50/0	831.5	8.96	9.64
10	16QAM	50/0	844	8.96	9.69
15	QPSK	75/0	831.5	13.42	14.4
15	QPSK	75/0	836.5	13.42	14.5
15	QPSK	75/0	841.5	13.39	14.36
15	16QAM	75/0	831.5	13.43	14.48
15	16QAM	75/0	836.5	13.43	14.32
15	16QAM	75/0	841.5	13.39	14.44

FCC ID: PY7-PM0903



Page 24 of 53



DATE: 6/7/2016

FCC ID: PY7-PM0903

11. BAND EDGE EMISSIONS

RULE PART(S)

FCC: §22.359 and § 90.691

LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P) dB$.

Part 90:

(a)(1)For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10 (f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(a)(2)For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10 (P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. {NOTE: Use 100 kHz reference bandwidth.}

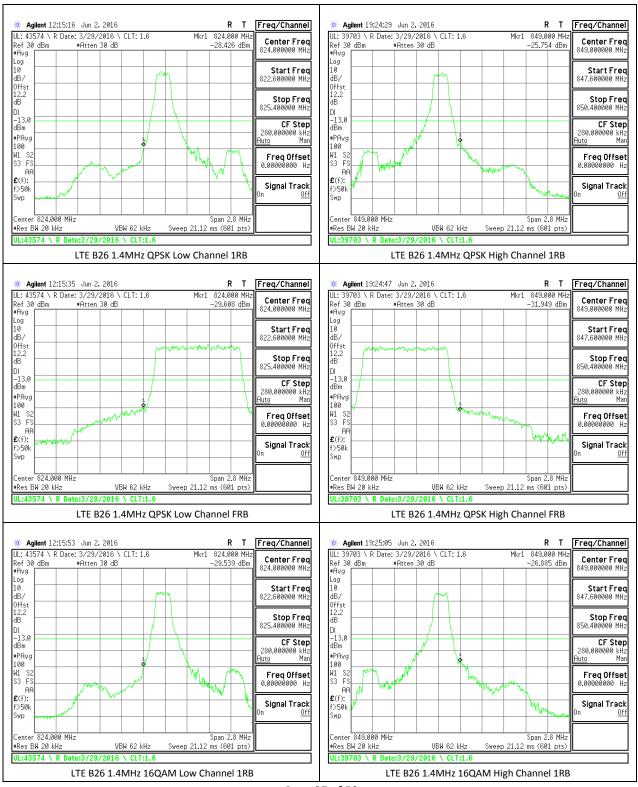
TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

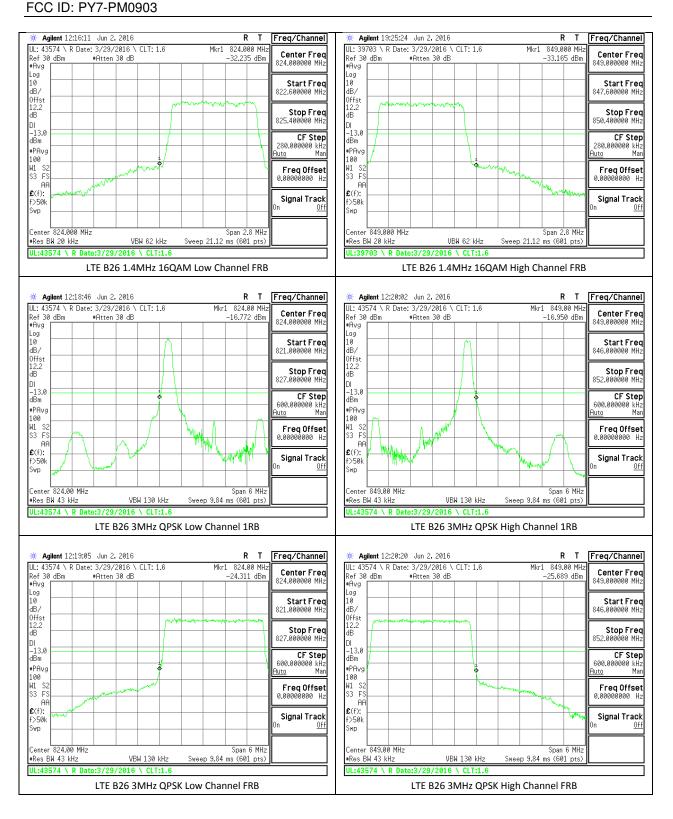
The transmitter output was connected to an Agilent 8960 or a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

11.1. BAND EDGE PLOTS

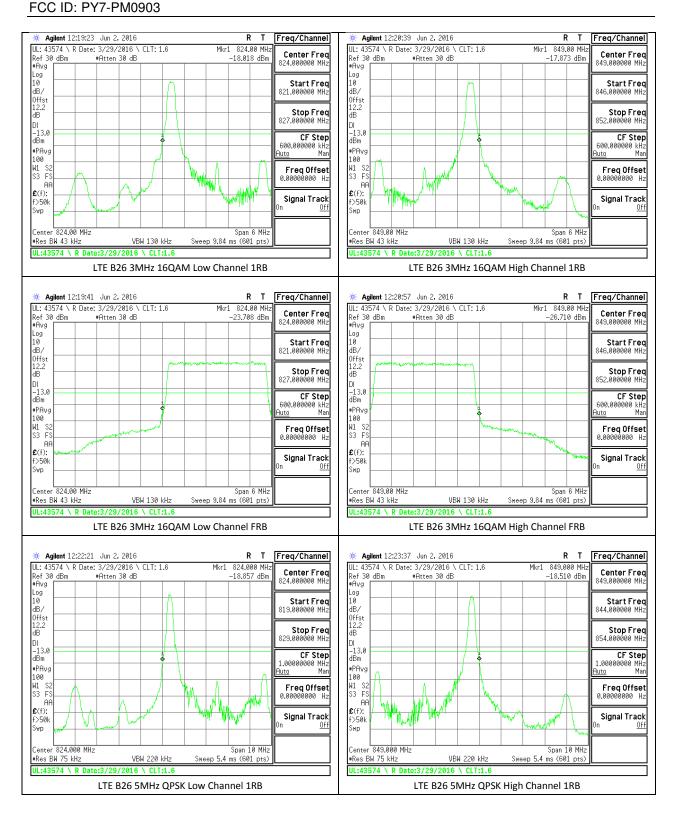
LTE Band 26

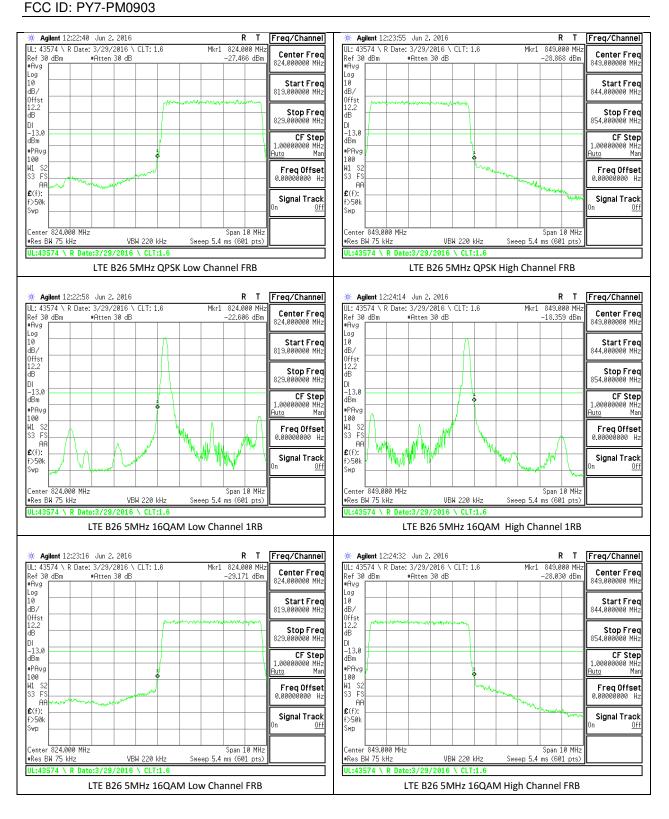


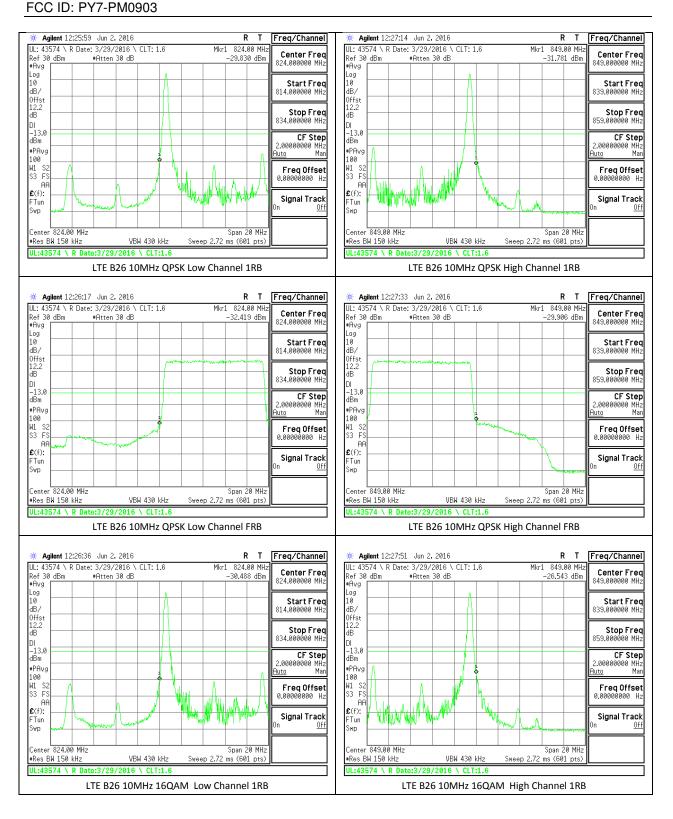
Page 27 of 53

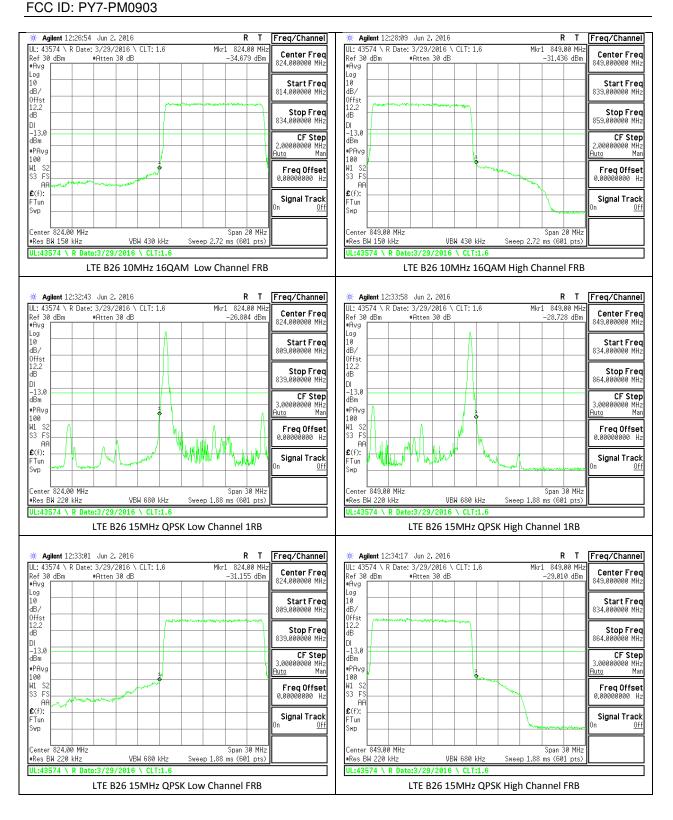


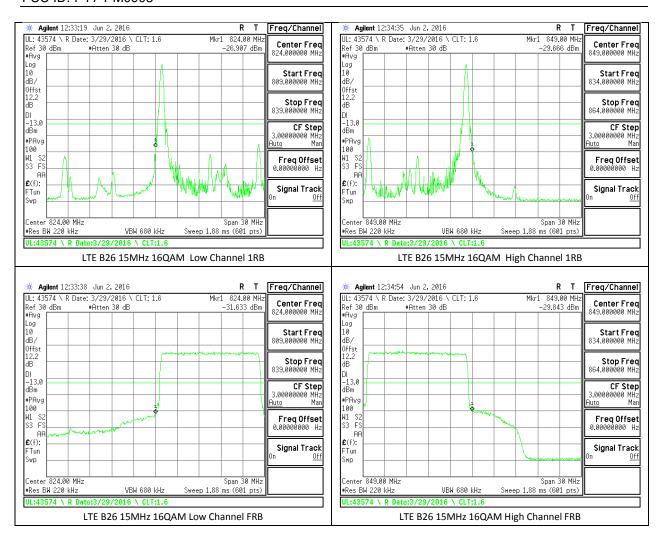
FORM NO: CCSUP4701H









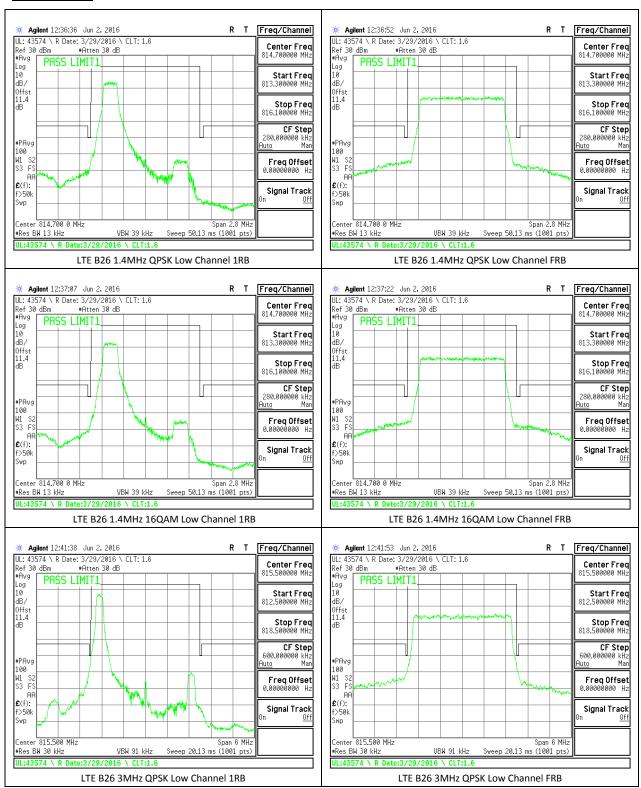


DATE: 6/7/2016

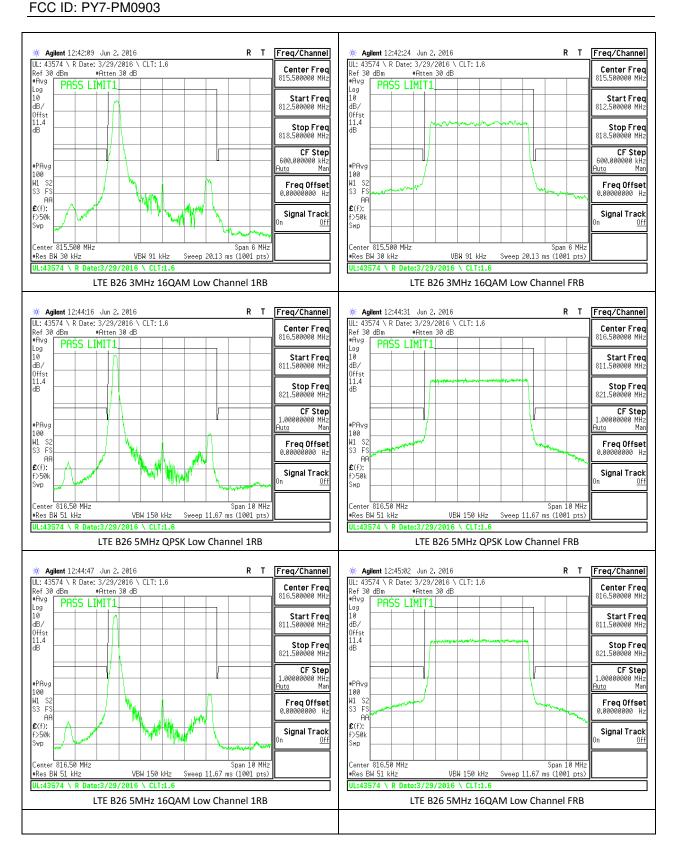
FCC ID: PY7-PM0903

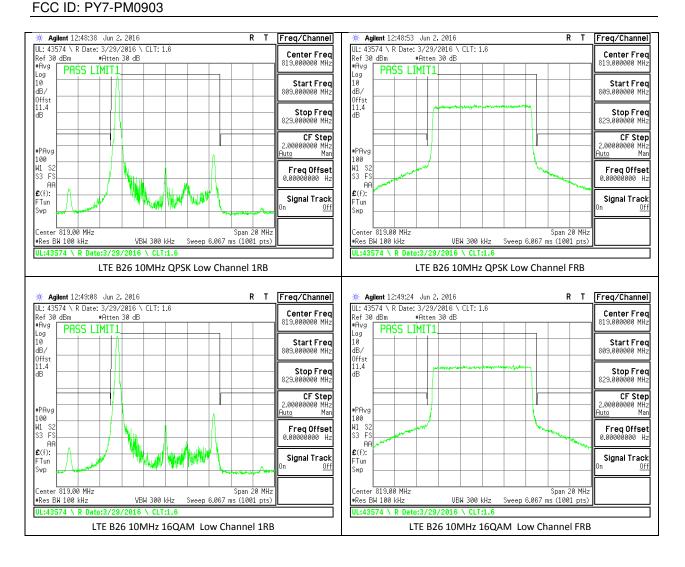
11.2. EMISSION MASK PLOTS

LTE Band 26



Page 34 of 53





FCC ID: PY7-PM0903

12. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §2.1051, §22.901, §22.917 and §90.691

LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P) dB$.

Part 27: (m)(4) (4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

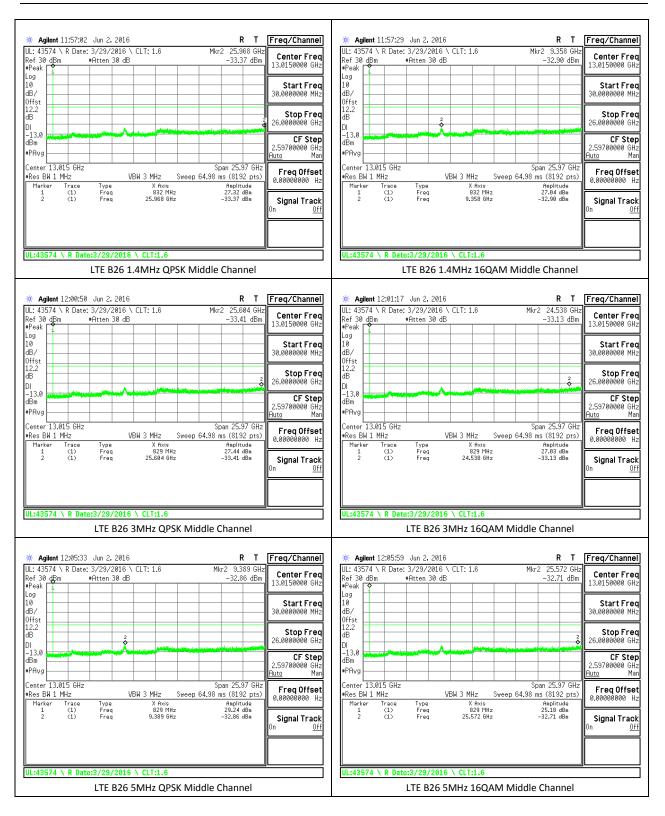
The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in a maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

FCC ID: PY7-PM0903

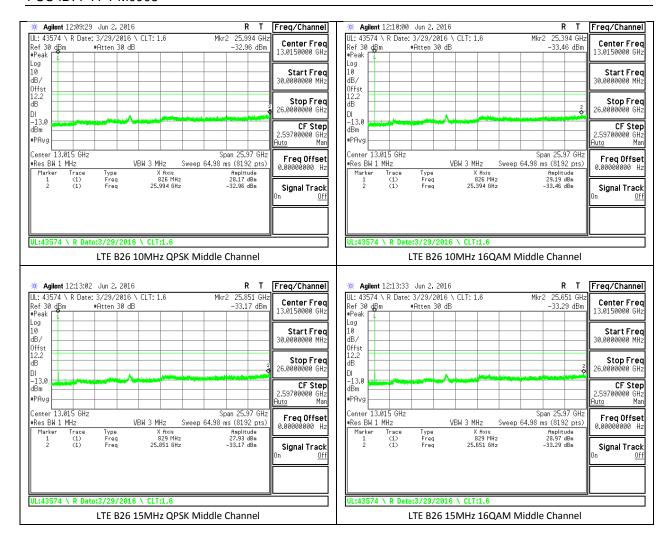
12.1. OUT OF BAND EMISSIONS RESULT AND PLOTS

BW(MHz)	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
1.4	QPSK	814.7	-33.24	-13	-20.24
1.4	QPSK	831.5	-33.37	-13	-20.37
1.4	QPSK	848.3	-34.01	-13	-21.01
1.4	16QAM	814.7	-32.56	-13	-19.56
1.4	16QAM	831.5	-32.9	-13	-19.9
1.4	16QAM	848.3	-32.56	-13	-19.56
3	QPSK	815.5	-33.45	-13	-20.45
3	QPSK	831.5	-33.41	-13	-20.41
3	QPSK	847.5	-33.1	-13	-20.1
3	16QAM	815.5	-33.34	-13	-20.34
3	16QAM	831.5	-33.13	-13	-20.13
3	16QAM	847.5	-33.62	-13	-20.62
5	QPSK	816.5	-32.94	-13	-19.94
5	QPSK	831.5	-32.86	-13	-19.86
5	QPSK	846.5	-33.4	-13	-20.4
5	16QAM	816.5	-33.02	-13	-20.02
5	16QAM	831.5	-32.71	-13	-19.71
5	16QAM	846.5	-33.7	-13	-20.7
10	QPSK	819	-33	-13	-20
10	QPSK	831.5	-32.95	-13	-19.95
10	QPSK	844	-33.09	-13	-20.09
10	16QAM	819	-33.05	-13	-20.05
10	16QAM	831.5	-33.46	-13	-20.46
10	16QAM	844	-33.61	-13	-20.61
15	QPSK	831.5	-32.91	-13	-19.91
15	QPSK	836.5	-33.17	-13	-20.17
15	QPSK	841.5	33.59	-13	46.59
15	16QAM	831.5	-33.85	-13	-20.85
15	16QAM	836.5	-33.29	-13	-20.29
15	16QAM	841.5	-33.04	-13	-20.04

FCC ID: PY7-PM0903



FCC ID: PY7-PM0903



FCC ID: PY7-PM0903

13. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355 and §90.213

LIMITS

 $\S22.355$ - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

 $\S 90.213$ - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

FCC ID: PY7-PM0903

13.1. FREQUENCY STABILITY RESULTS

Re	ference Frequency: Limit: to	831.5 2078.750	MHz @ 20°C Hz	
Power Supply	Environment		riation Measureed wi	ith Time Elapse
(Vdc)	Temperature (°C)	(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	831.499993	0.016	2.5
3.80	40	831.499995	0.012	2.5
3.80	30	831.499993	0.015	2.5
3.80	20	831.500006	0	2.5
3.80	10	831.500006	0.000	2.5
3.80	0	831.500007	-0.001	2.5
3.80	-10	831.500005	0.000	2.5
3.80	-20	831.500006	0.000	2.5
3.80	-30	831.500005	0.001	2.5

Re	ference Frequency:	831.5	MHz @ 20°C	
	2078.750	Hz		
Power Supply	Environment	viation Measureed wi	ith Time Elapse	
(Vdc)	Temperature (°C)	(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	831.500006	0.000	2.5
4.37	20	831.5000054	0.000	2.5
3.23(End of volt)	20	831.5000076	-0.002	2.5

FCC ID: PY7-PM0903

14. RADIATED TEST RESULTS

14.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2. 1046, §22. 913 and § 90.635.

LIMITS

22.913 (a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

90.635 (b) - The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw). (LTE B26)

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

TEST PROCEDURE

ANSI / TIA / EIA 603D Clause 2.2.17; PSA setting reference to 971168 D01 v02r02

For peak power measurement with a PSA:

a) Set the RBW \geq OBW; b) Set VBW \geq 3 \times RBW; c) Set span \geq 2 x RBW; d) Sweep time = auto couple; e) Detector = peak; f) Ensure that the number of measurement points \geq span/RBW; g) Trace mode = max hold;

For average power measurement with a PSA:

a) Set span to at least 1.5 times the OBW; b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz; c) Set VBW \geq 3 x RBW; d) Set number of points in sweep \geq 2 × span / RBW; e) Sweep time = auto-couple; f) Detector = RMS (power averaging); g) Use free run trigger If burst duty cycle \geq 98; h) Use trigger to capture bursts If burst duty cycle < 98; i) Trace average at least 100 traces in power averaging (*i.e.*, RMS) mode. j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

FCC ID: PY7-PM0903

14.1.1. ERP/EIRP RESULTS AND TABLE

D14/ (B411)	20.4	DD (DD 6)	((0.011.)	Е	ERP			
BW (MHz)	Mode	RB/RB Size	f(MHz)	dBm	mW			
1.4	QPSK	1/0	814.7	22.01	158.85			
1.4	QPSK	1/0	831.5	21.00	125.89			
1.4	QPSK	1/0	848.3	20.54	113.24			
1.4	16QAM	1/0	814.7	19.50	89.13			
1.4	16QAM	1/0	831.5	20.20	104.71			
1.4	16QAM	1/0	848.3	19.80	95.50			
3	QPSK	1/0	815.5	21.45	139.64			
3	QPSK	1/0	831.5	20.89	122.74			
3	QPSK	1/0	847.5	20.28	106.66			
3	16QAM	1/0	815.5	20.82	120.78			
3	16QAM	1/0	831.5	20.57	114.02			
3	16QAM	1/0	847.5	19.81	95.72			
5	QPSK	1/0	816.5	21.50	141.25			
5	QPSK	1/0	831.5	21.02	126.47			
5	QPSK	1/0	846.5	20.35	108.39			
5	16QAM	1/0	816.5	20.63	115.61			
5	16QAM	1/0	831.5	20.09	102.09			
5	16QAM	1/0	846.5	19.74	94.19			
10	QPSK	1/0	819	21.83	152.41			
10	QPSK	1/0	831.5	21.22	132.43			
10	QPSK	1/0	844	20.72	118.03			
10	16QAM	1/0	819	20.74	118.58			
10	16QAM	1/0	831.5	20.30	107.15			
10	16QAM	1/0	844	20.00	100.00			
15	QPSK	1/0	831.5	21.34	136.14			
15	QPSK	1/0	836.5	20.99	125.60			
15	QPSK	1/0	841.5	21.69	147.57			
15	16QAM	1/0	831.5	20.34	108.14			
15	16QAM	1/0	836.5	19.99	99.77			
15	16QAM	1/0	841.5	20.88	122.46			

High Frequency Substitution Measuren
UL Verification Services, Inc. Company:
Project #:
Date:
Test Engineer:
Configuration: 16U23577 6/2/2016 44350 JH EUT Only Chamber C LTE_QPSK Band 26 Fundamentals, 1.4MHz Bandwidth <u>Test Equpment:</u>
Receiving: Hybrid T185, and Chamber C SMA Cables
Substitution: Dipole T416, 6ft SMA Cable SG reading Ant. Pol. Cable Loss Antenna Gain ERP (dBm) (H/V) (dB) (dBd) 14.16 38.5 -24.3 21.00 38.5 -17.5

	High Frequency Substitution Measurement UL Verification Services, Inc.						
mpany:	SOMC						
1	461100577						

Company: Project #: Date: Test Engineer: 16U23577 6/2/2016 44350 JH EUT Only Configuration:

Chamber C LTE_16QAM Band 26 Fundamentals, 1.4MHz Bandwidth

Test Equpment:
Receiving: Hybrid T185, and Chamber C SMA Cables
Substitution: Dipole T416, 6ft SMA Cable

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
814.70	13.78	V	0.9	0.0	12.88	50.0	-37.1	
814.70	20.40	Н	0.9	0.0	19.50	50.0	-30.5	
Mid Ch			1					
831.50	14.26	V	0.9	0.0	13.36	38.5	-25.1	
831.50	21.10	Н	0.9	0.0	20.20	38.5	-18.3	
High Ch			1					
848.30	14.09	V	0.9	0.0	13.19	38.5	-25.3	
848.30	20.70	Н	0.9	0.0	19.80	38.5	-18.7	

LTE B26 1.4MHz QPSK

LTE B26 1.4MHz 16QAM

High Frequency Substit	aution Measuremen
UL Verification S	Services, Inc.

SOMC 16U23577 6/2/2016 44350 JH EUT Only Company: Project #: Date: Test Engineer: Configuration: Location:

LTE_QPSK Band 26 Fundamentals, 3MHz Bandwidth

Test Equpment: Receiving: Hybrid T185, and Chamber C SMA Cables Substitution: Dipole T416, 6ft SMA Cable

T	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Deita	Notes
MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
Low Ch								
815.50	16.31	V	0.9	0.0	15.41	50.0	-34.6	
815.50	22.35	Н	0.9	0.0	21.45	50.0	-28.6	
Mid Ch								
831.50	15.29	V	0.9	0.0	14.39	38.5	-24.1	
831.50	21.79	Н	0.9	0.0	20.89	38.5	-17.6	
High Ch								
847.50	14.75	V	0.9	0.0	13.85	38.5	-24.6	
847.50	21.18	Н	0.9	0.0	20.28	38.5	-18.2	

High Frequency Substitution Measurement UL Verification Services, Inc.

SOMC 16U23577 6/2/2016 44350 JH EUT Only Company: Project #: Date: Test Engineer: Configuration: Location:

Chamber C LTE_16QAM Band 26 Fundamentals, 3MHz Bandwidth

Test Equpment:

Receiving: Hybrid T185, and Chamber C SMA Cables Substitution: Dipole T416, 6ft SMA Cable

f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
Low Ch								
815.50	15.54	V	0.9	0.0	14.64	50.0	-35.4	
815.50	21.72	Н	0.9	0.0	20.82	50.0	-29.2	
Mid Ch								
831.50	14.18	V	0.9	0.0	13.28	38.5	-25.2	
831.50	21.47	Н	0.9	0.0	20.57	38.5	-17.9	
High Ch								
847.50	14.29	V	0.9	0.0	13.39	38.5	-25.1	
847.50	20.71	Н	0.9	0.0	19.81	38.5	-18.7	
			*			·		

LTE B26 3MHz QPSK

LTE B26 3MHz 16QAM

High Frequency Substitution Measure UL Verification Services, Inc.

SOMC 16U23577 6/2/2016 43575 OS EUT Only Company: Project #: Date: Test Engineer: Configuration:

Chamber C LTE_QPSK Band 26 Fundamentals, 5MHz Bandwidth

<u>Test Equpment:</u>
Receiving: Hybrid T185, and Chamber C SMA Cables
Substitution: Dipole T416, 6ft SMA Cable

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch	· '		 ` 	` '		· ·		
816.50	16.15	V	0.9	0.0	15.25	50.0	-34.8	
816.50	22.40	Н	0.9	0.0	21.50	50.0	-28.5	
Mid Ch								
831.50	15.67	V	0.9	0.0	14.77	38.5	-23.7	
831.50	21.92	Н	0.9	0.0	21.02	38.5	-17.5	
High Ch			1					
846.50	15.21	V	0.9	0.0	14.31	38.5	-24.2	
846,50	21.25	Н	0.9	0.0	20.35	38.5	-18.2	

LTE B26 5MHz QPSK

	High	Frequency Substitution Measuremer UL Verification Services, Inc.
ompany:	SOMC	
oject #	161123577	

Company:
Project #:
Date:
Test Engineer:
Configuration: 16U23577 6/2/2016 43575 OS EUT Only

Chamber C LTE_16QAM Band 26 Fundamentals, 5MHz Bandwidth

Test Equpment:
Receiving: Hybrid T185, and Chamber C SMA Cables
Substitution: Dipole T416, 6ft SMA Cable

SG reading Ant. Pol. Cable Loss Antenna Gain ERP Limit Delta (dB) Notes (dBm) (H/V) (dB) (dBd) Low Ch 816.50 816.50 Mid Ch 831.50 50.0 -35.4 50.0 -29.4 13.47 38.5 20.09 38.5 0.0 -25.0 -18.4 13.50 38.5 -25.0 19.74 38.5 -18.8

LTE B26 5MHz 16QAM

FORM NO: CCSUP4701H

High Frequency Substitution Measurement UL Verification Services, Inc.

Company:
Project #:
Date:
Test Engineer:
Configuration:
Location:
Mode: 16U23577 6/2/2016 43575 OS EUT Only

Chamber C LTE_QPSK Band 26 Fundamentals, 10MHz Bandwidth

Test Equpment:
Receiving: Hybrid T185, and Chamber C SMA Cables
Substitution: Dipole T416, 6ft SMA Cable

f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
Low Ch								
819.00	16.13	V	0.9	0.0	15.23	50.0	-34.8	
819.00	22.73	Н	0.9	0.0	21.83	50.0	-28.2	
Mid Ch								
831.50	15.28	V	0.9	0.0	14.38	38.5	-24.1	
831.50	22.12	Н	0.9	0.0	21.22	38.5	-17.3	
High Ch								
844.00	15.58	V	0.9	0.0	14.68	38.5	-23.8	
844.00	21.62	Н	0.9	0.0	20.72	38.5	-17.8	

High Frequency Substitution Measurement UL Verification Services, Inc.

Company: Project #: Date: Test Engineer: Configuration: Location: Mode: SOMC 16U23577 6/2/2016 43575 OS EUT Only

Chamber C LTE_16QAM Band 26 Fundamentals, 10MHz Bandwidth

Test Equpment: Receiving: Hybrid T185, and Chamber C SMA Cables Substitution: Dipole T416, 6ft SMA Cable

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
819.00	15.13	v	0.9	0.0	14.23	50.0	-35.8	
819.00	21.64	Н	0.9	0.0	20.74	50.0	-29.3	
Mid Ch			1					
831.50	14.57	V	0.9	0.0	13.67	38.5	-24.8	
831.50	21.20	Н	0.9	0.0	20.30	38.5	-18.2	
High Ch			1					
844.00	15.00	V	0.9	0.0	14.10	38.5	-24.4	
844.00	20.90	Н	0.9	0.0	20.00	38.5	-18.5	

LTE B26 10MHz QPSK

LTE B26 10MHz 16QAM

High Frequency Substitution Measurement UL Verification Services, Inc.

Company:
Project #:
Date:
Test Engineer:
Configuration:
Location:
Mode: 16U23577 6/2/2016 43575 OS EUT Only

Chamber C LTE_QPSK Band 26 Fundamentals, 15MHz Bandwidth

<u>Test Equpment:</u> Receiving: Hybrid T185, and Chamber C SMA Cables Substitution: Dipole T416, 6ft SMA Cable

f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
Low Ch								
831.50	15.47	V	0.9	0.0	14.57	38.5	-23.9	
831.50	22.24	Н	0.9	0.0	21.34	38.5	-17.2	
Mid Ch								
836.50	15.45	V	0.9	0.0	14.55	38.5	-23.9	
836.50	21.89	Н	0.9	0.0	20.99	38.5	-17.5	
High Ch								
841.50	15.99	V	0.9	0.0	15.09	38.5	-23.4	
841.50	22.59	Н	0.9	0.0	21.69	38.5	-16.8	

LTE B26 15MHz QPSK

High Frequency Substitution Measurement UL Verification Services, Inc.

Company:
Project #:
Date:
Test Engineer:
Configuration:
Location:
Mode: 16U23577 6/2/2016 43575 OS EUT Only

Chamber C LTE_16QAM Band 26 Fundamentals, 15MHz Bandwidth

Test Equpment:
Receiving: Hybrid T185, and Chamber C SMA Cables
Substitution: Dipole T416, 6ft SMA Cable

f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
Low Ch								
831.50	14.49	V	0.9	0.0	13.59	38.5	-24.9	
831.50	21.24	Н	0.9	0.0	20.34	38.5	-18.2	
Mid Ch								
836.50	14.36	V	0.9	0.0	13.46	38.5	-25.0	
836.50	20.89	Н	0.9	0.0	19.99	38.5	-18.5	
High Ch								
841.50	15.04	V	0.9	0.0	14.14	38.5	-24.4	
841.50	21.78	Н	0.9	0.0	20.88	38.5	-17.6	

LTE B26 15MHz 16QAM

FORM NO: CCSUP4701H

FCC ID: PY7-PM0903

14.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917 and §90.691

LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P) dB$.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FAX: (510) 661-0888

REPORT NO: 16U23577-E2V1 DATE: 6/7/2016 FCC ID: PY7-PM0903

14.2.1. SPURIOUS RADIATION PLOTS

	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement
ompany: roject #: ste: sst Engineer: onfiguration: scation:	SOMC 16U25577 60/22016 43575 OS EUT Only Chamber C LTE_QPSK Band 26 Harmonics, 1.4MHz Bandwidth	Company: SCMC
SG reading (dBm)	Ant. Pol. Distance (Preamp (dB) (dB) (dBm) (dBm) (dBm) (dBm) (dB) (dBm)	T SG reading Ant. Pol. Distance Preamp Filter EIRP Limit Deba Notes
SC reading MHz (GBm) (Ant. Pol. Distance Preamp Filter EIRP Limit Delta Notes	Node: LTE_16QAM Band 26 Hammonics, 3MHz Bandwidth
	LTE B26 3MHz QPSK	LTE B26 3MHz 16QAM
Company: Project #: Date: Test Engineer: Configuration: Location: Mode:	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement SOMC 16/U2/3577 67/2/316 43575 OS EUT Only Chamber C LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: SOMC Project #: 16U23577 Date: 6/22016 Test Engineer: 4357 OS Configuration: EUT Only Location: Chamber C Mode: LTE_16QAM Band 26 Harmonics, 5MHz Bandwidth
SG reading International	Ant. Pol. Olistanco Preamp Filter EIRP Unit Oelta (dBm) (dBm	Filter Column Filter Column Filter Column Filter Column Column Filter Column C

LTE B26 5MHz QPSK												LTE	B26 51	MHz 1	6QAN	1		
UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: SOMC Project #: 18U2/3677 Date: 6/2/2016 Test Engineer: 4975 OS Configuration: EUT Only Location: Chamber C Mode: LTE_QPSK Band 26 Hamonics, 10Metz Bandwidth									Company; Project #: Date: Test Engi Configura Location: Mode:		SOMC 16U23577 6/2/2016 43575 OS EUT Only Chamber C	Ui ove 1GHz Hig Band 26 Harmon		cy Substi		asureme	nt	
f SG reading	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
ow Ch, 819 538.00 31.6 157.00 28.0 276.00 -24.9 538.00 33.0 157.00 28.0 276.00 -25.2	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0	36.4 35.0 34.3 36.4 35.0 34.3	1.0 1.0 1.0 1.0 1.0	-66.9 -62.0 -58.2 -68.4 -62.0 -58.5	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	.53.9 .49.0 .45.2 .55.4 .49.0 .45.5		Low Ch, 81 1638.00 2457.00 3276.00 1638.00 2457.00 3276.00	-32.7 -27.2 -24.9 -33.0 -28.0 -25.1	V V H H	3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.4 35.0 34.3 36.4 35.0 34.3	1.0 1.0 1.0 1.0 1.0	-68.1 -61.2 -58.2 -68.4 -62.0 -58.4	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	-55.1 -48.2 -45.2 -55.4 -49.0 -45.4	
id Ch, 831.5 i63.00 32.1 i94.50 -27.8 i26.00 -25.1 i63.00 33.1 i94.50 -27.7 i26.00 -24.0	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0	36.3 34.9 34.2 36.3 34.9 34.2	1.0 1.0 1.0 1.0 1.0	.67.5 -61.7 -58.4 -68.4 -61.7 -57.3	.13.0 -13.0 -13.0 -13.0 -13.0 -13.0	.54.5 -48.7 -45.4 -55.4 -48.7 -44.3		Mid Ch, 83 1663.00 2494.50 3326.00 1663.00 2494.50 3326.00	-31.8 -27.6 -24.3 -33.0 -27.0 -25.2	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0	36.3 34.9 34.2 36.3 34.9 34.2	1.0 1.0 1.0 1.0 1.0	-67.2 -61.5 -57.5 -68.4 -60.9 -58.4	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	.54.2 -48.5 -44.5 -55.4 -47.9 -45.4	
igh Ch, 844 is8.00 31.8 is32.00 27.8 is32.00 24.6 is88.00 32.1 is32.00 27.6 is6.00 25.4	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.3 34.9 34.2 36.3 34.9 34.2	1.0 1.0 1.0 1.0 1.0	-67.1 -61.7 -57.8 -67.4 -61.5 -58.6	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	-54.1 -48.7 -44.8 -54.4 -48.5 -45.6		High Ch, 84 1688.00 2532.00 3376.00 1688.00 2532.00 3376.00	-31.6 -27.7 -24.7 -32.6 -27.8 -25.4	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0	36.3 34.9 34.2 36.3 34.9 34.2	1.0 1.0 1.0 1.0 1.0	-66.9 -61.6 -57.9 -67.9 -61.7 -58.6	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	.53.9 .48.6 .44.9 .54.9 .48.7 .45.6	
			B26 1		-	(B26 10		-	И		
company: Project #: late: lest Engineer: configuration: ocation: flode:	SOMC 16U23577 6/2/2016 43575 OS EUT Only Chamber C	ove 1GHz High	gh Frequen	ncy Substi		asureme	nt		Company: Project #: Date: Test Engi Configura Location: Mode:		SOMC 16U23577 6/2/2016 43575 OS EUT Only Chamber C	ove 1GHz Hi	gh Frequen	cy Substi		asureme	nt	
f SG reading MHz (dBm) ow Ch. 831.5	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz Low Ch. 83	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
63.00 31.2 194.50 28.0 126.00 24.5 163.00 31.5 194.50 27.8 126.00 24.9	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0	36.3 34.9 34.2 36.3 34.9 34.2	1.0 1.0 1.0 1.0 1.0	-66.6 -62.0 -57.8 -66.9 -61.7 -58.2	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	.53.6 .49.0 .44.8 .53.9 .48.7 .45.2		1663.00 2494.50 3326.00 1663.00 2494.50 3326.00	.31.9 -28.3 -24.6 -32.8 -27.7 -26.0	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0	36.3 34.9 34.2 36.3 34.9 34.2	1.0 1.0 1.0 1.0 1.0	67.2 62.3 57.8 68.2 61.6 -59.2	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	.54.2 .49.3 .44.8 .55.2 .48.6 .46.2	
d Ch, 836.5 73.00 31.8 09.50 27.5 46.00 -25.2 73.00 32.7 09.50 28.2 46.00 -25.3	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0	36.3 34.9 34.2 36.3 34.9 34.2	1.0 1.0 1.0 1.0 1.0	-67.2 -61.5 -58.4 -68.1 -62.1 -58.6	.13.0 .13.0 .13.0 .13.0 .13.0 .13.0	.54.2 -48.5 -45.4 -55.1 -49.1 -45.6		Mid Ch, 83 1673.00 2509.50 3346.00 1673.00 2509.50 3346.00	-31.3 -27.9 -24.2 -32.2 -27.5 -25.5	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0	36.3 34.9 34.2 36.3 34.9 34.2	1.0 1.0 1.0 1.0 1.0	66.7 61.8 57.4 67.5 61.5 -58.7	.13.0 .13.0 .13.0 .13.0 .13.0 .13.0	.53.7 -48.8 -44.4 -54.5 -48.5 -45.7	
gh Ch, 841.5 83.00 31.9 24.50 27.6 66.00 24.9 83.00 32.3 24.50 27.6 66.00 25.5	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.3 34.9 34.2 36.3 34.9 34.2	1.0 1.0 1.0 1.0 1.0	-67.2 -61.5 -58.1 -67.6 -61.5 -58.7	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	-54.2 -48.5 -45.1 -54.6 -48.5 -45.7		High Ch, 84 1683.00 2524.50 3366.00 1683.00 2524.50 3366.00	31.6 -27.7 -25.2 -33.1 -27.3 -25.5	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0 3.0	36.3 34.9 34.2 36.3 34.9 34.2	1.0 1.0 1.0 1.0 1.0	66.9 61.6 58.4 68.4 61.3 58.7	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	53.9 48.6 45.4 55.4 48.3 45.7	
		LTE	B26 1	5MHz	QPSK	(J	LTE	B26 15	MHz 1	16QAI	M		