

Band LTE4 3MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Company: Sony Project #: 15U20030 Date: 3/4/2015 Test Engineer: R.Alegre Configuration: EUT Only Location: Chamber A Mode: LTE_QPSK Band 4 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Horn T711, and Chamber A SMA Cables Substitution: Horn T59, 4ft SMA Cable Warehouse							
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
	Low Ch							
	1711.50	8.48	V	0.9	8.2	15.83	30.0	-14.2
	1711.50	15.58	H	0.9	8.2	22.93	30.0	-7.1
	Mid Ch							
	1732.50	8.41	V	0.9	8.2	15.68	30.0	-14.3
	1732.50	15.99	H	0.9	8.2	23.26	30.0	-6.7
	High Ch							
	1753.50	8.73	V	0.9	8.1	15.92	30.0	-14.1
	1753.50	16.17	H	0.9	8.1	23.36	30.0	-6.6

LTE Band 2

Band LTE2 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																
	Company:		Sony																																																																																														
	Project #:		15U20030																																																																																														
	Date:		3/3/2015																																																																																														
	Test Engineer:		O. Stoelting																																																																																														
	Configuration:		X-pos EUT only																																																																																														
	Location:		Chamber C																																																																																														
	Mode:		LTE_16QAM Band 2 Fundamentals, 20MHz Bandwidth																																																																																														
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T72 Substitution, T1096 SMA Cable Warehouse																																																																																																
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																									
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Band

LTE2

15MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Sony

Project #:

15U20030

Date:

3/3/2015

Test Engineer:

O. Stoelting

Configuration:

X-pos EUT only

Location:

Chamber C

Mode:

LTE_QPSK Band 2 Fundamentals, 15MHz Bandwidth

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

Substitution: Horn T72 Substitution, T1096 SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1857.50	13.97	V	0.9	8.5	21.63	33.0	-11.4	
1857.50	17.06	H	0.9	8.5	24.72	33.0	-8.3	
Mid Ch								
1880.00	13.44	V	0.9	8.5	21.09	33.0	-11.9	
1880.00	16.98	H	0.9	8.5	24.63	33.0	-8.4	
High Ch								
1902.50	11.23	V	0.9	8.5	18.92	33.0	-14.1	
1902.50	17.06	H	0.9	8.5	24.75	33.0	-8.2	

Band

LTE2

10MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Sony

Project #:

15U20030

Date:

3/3/2015

Test Engineer:

O. Stoelting

Configuration:

X-pos EUT only

Location:

Chamber C

Mode:

LTE_16QAM Band 2 Fundamentals, 10MHz Bandwidth

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

Substitution: Horn T72 Substitution, T1096 SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1855.00	14.32	V	0.9	8.5	21.98	33.0	-11.0	
1855.00	16.70	H	0.9	8.5	24.36	33.0	-8.6	
Mid Ch								
1880.00	10.32	V	0.9	8.5	17.97	33.0	-15.0	
1880.00	16.84	H	0.9	8.5	24.49	33.0	-8.5	
High Ch								
1905.00	11.21	V	0.9	8.5	18.90	33.0	-14.1	
1905.00	15.45	H	0.9	8.5	23.14	33.0	-9.9	

WCDMA

Band Band 2 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C Company: Sony Project #: 15U20030 Date: 3/3/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT only Mode: HSDPA B2 Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T72 Substitution, T1096 SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1852.40	4.65	V	0.9	8.5	12.31	33.0	-20.7	
	1852.40	14.55	H	0.9	8.5	22.21	33.0	-10.8	
	Mid Ch								
	1880.00	5.68	V	0.9	8.5	13.33	33.0	-19.7	
	1880.00	15.91	H	0.9	8.5	23.56	33.0	-9.4	
	High Ch								
	1907.60	6.61	V	0.9	8.5	14.30	33.0	-18.7	
	1907.60	16.12	H	0.9	8.5	23.81	33.0	-9.2	
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

GSM

Band

GSM

1900

EGPRS

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber C

Company: Sony

Project #: 15U20030

Date: 4/4/2015

Test Engineer: S.Tran

Configuration: X-pos EUT only

Mode: EGPRS 1900

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

Substitution: Horn T72 Substitution, T1096 SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1850.20	13.61	V	0.9	8.5	21.27	33.0	-11.7	
1850.20	19.27	H	0.9	8.5	26.93	33.0	-6.1	
Mid Ch								
1880.00	18.10	V	0.9	8.5	25.75	33.0	-7.3	
1880.00	20.86	H	0.9	8.5	28.51	33.0	-4.5	
High Ch								
1909.80	14.90	V	0.9	8.5	22.59	33.0	-10.4	
1909.80	20.76	H	0.9	8.5	28.45	33.0	-4.5	

Rev. 3.17.11

Note: For Band 4 EIRP limit is 30dBm

Band

GSM

850

EGPRS

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber C

Company:

Sony

Project #:

15I20030

Date:

04/04/15

Test Engineer:

S. Tran

Configuration:

EUT Y-position

Mode:

EGPRS850

Test Equipment:

Receiving: Hybrid T185, and Chamber C N-type Cable

Substitution: Dipole T273, 8ft SMA Cable Warehouse.

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
824.20	24.40	V	0.9	0.0	23.50	38.5	-15.0	
824.20	17.72	H	0.9	0.0	16.82	38.5	-21.6	
Mid Ch								
836.60	25.42	V	0.9	0.0	24.52	38.5	-13.9	
836.60	17.44	H	0.9	0.0	16.54	38.5	-21.9	
High Ch								
848.80	24.48	V	0.9	0.0	23.58	38.5	-14.9	
848.80	17.50	H	0.9	0.0	16.60	38.5	-21.8	

Rev. 3.17.11

Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm

11.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917(a), §24.238 (a), §27.53 (g)

LIMITS

Part 22.917(a) & Part 24.238(a) 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 27.53(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

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.

MODES TESTED

GSM, WCDMA, and LTE

RESULTS

11.2.1. SPURIOUS RADIATION PLOTS

LTE Band 17

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		Sony							
Project #:		15U20030							
Date:		03/06/15							
Test Engineer:		Jude Semana							
Configuration:		EUT + Charger							
Mode:		LTE17 10M 16QAM HARM							
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber		T34 8449B		Filter 1		Part 27			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 709MHz									
1.418	-26.5	V	3.0	37.8	1.0	-63.2	-13.0	-50.2	
2.127	-21.2	V	3.0	36.7	1.0	-56.9	-13.0	-43.9	
2.836	-19.4	V	3.0	36.2	1.0	-54.6	-13.0	-41.6	
1.418	-25.6	H	3.0	37.8	1.0	-62.4	-13.0	-49.4	
2.127	-22.3	H	3.0	36.7	1.0	-58.0	-13.0	-45.0	
2.836	-19.7	H	3.0	36.2	1.0	-54.9	-13.0	-41.9	
Mid Ch, 710MHz									
1.420	-25.7	V	3.0	37.8	1.0	-62.5	-13.0	-49.5	
2.130	-21.2	V	3.0	36.7	1.0	-56.9	-13.0	-43.9	
2.840	-19.4	V	3.0	36.2	1.0	-54.6	-13.0	-41.6	
1.420	-26.3	H	3.0	37.8	1.0	-63.1	-13.0	-50.1	
2.130	-22.1	H	3.0	36.7	1.0	-57.8	-13.0	-44.8	
2.840	-20.1	H	3.0	36.2	1.0	-55.3	-13.0	-42.3	
High Ch, 711MHz									
1.422	-26.8	V	3.0	37.8	1.0	-63.5	-13.0	-50.5	
2.133	-21.4	V	3.0	36.7	1.0	-57.1	-13.0	-44.1	
2.844	-18.9	V	3.0	36.2	1.0	-54.1	-13.0	-41.1	
1.422	-26.8	H	3.0	37.8	1.0	-63.6	-13.0	-50.6	
2.133	-21.8	H	3.0	36.7	1.0	-57.5	-13.0	-44.5	
2.844	-20.1	H	3.0	36.2	1.0	-55.2	-13.0	-42.2	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:	Sony									
Project #:	15U20030									
Date:	03/06/15									
Test Engineer:	Jude Semana									
Configuration:	EUT + Charger									
Mode:	LTE17 10M QPSK HARM									
Chamber 3m Chamber Pre-amplifier T34 8449B Filter Filter 1 Limit Part 27										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE17 10MHz QPSK	Low Ch, 709MHz									
	1.418	-26.6	V	3.0	37.8	1.0	-63.4	-13.0	-50.4	
	2.127	-21.2	V	3.0	36.7	1.0	-56.9	-13.0	-43.9	
	2.836	-19.5	V	3.0	36.2	1.0	-54.7	-13.0	-41.7	
	1.418	-26.4	H	3.0	37.8	1.0	-63.2	-13.0	-50.2	
	2.127	-21.7	H	3.0	36.7	1.0	-57.4	-13.0	-44.4	
	2.836	-19.5	H	3.0	36.2	1.0	-54.7	-13.0	-41.7	
	Mid Ch, 710MHz									
	1.420	-26.7	V	3.0	37.8	1.0	-63.5	-13.0	-50.5	
	2.130	-21.4	V	3.0	36.7	1.0	-57.0	-13.0	-44.0	
	2.840	-19.2	V	3.0	36.2	1.0	-54.4	-13.0	-41.4	
	1.420	-26.3	H	3.0	37.8	1.0	-63.1	-13.0	-50.1	
	2.130	-22.1	H	3.0	36.7	1.0	-57.8	-13.0	-44.8	
	2.840	-19.8	H	3.0	36.2	1.0	-55.0	-13.0	-42.0	
	High Ch, 711MHz									
	1.422	-26.0	V	3.0	37.8	1.0	-62.8	-13.0	-49.8	
	2.133	-21.4	V	3.0	36.7	1.0	-57.1	-13.0	-44.1	
	2.844	-19.3	V	3.0	36.2	1.0	-54.5	-13.0	-41.5	
1.422	-25.9	H	3.0	37.8	1.0	-62.7	-13.0	-49.7		
2.133	-21.8	H	3.0	36.7	1.0	-57.5	-13.0	-44.5		
2.844	-20.0	H	3.0	36.2	1.0	-55.2	-13.0	-42.2		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:	Sony									
Project #:	15U20030									
Date:	03/06/15									
Test Engineer:	Jude Semana									
Configuration:	EUT + Charger									
Mode:	LTE17 5M 16QAM HARM									
Chamber 3m Chamber Pre-amplifier T34 8449B Filter Filter 1 Limit Part 27										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE17 5MHz 16QAM	Low Ch, 706.5MHz									
	1.413	-27.0	V	3.0	37.8	1.0	-63.8	-13.0	-50.8	
	2.120	-21.0	V	3.0	36.7	1.0	-56.7	-13.0	-43.7	
	2.283	-20.6	V	3.0	36.6	1.0	-56.1	-13.0	-43.1	
	1.413	-25.9	H	3.0	37.8	1.0	-62.7	-13.0	-49.7	
	2.120	-21.7	H	3.0	36.7	1.0	-57.4	-13.0	-44.4	
	2.283	-22.2	H	3.0	36.6	1.0	-57.7	-13.0	-44.7	
	Mid Ch, 710MHz									
	1.420	-26.6	V	3.0	37.8	1.0	-63.4	-13.0	-50.4	
	2.130	-20.7	V	3.0	36.7	1.0	-56.4	-13.0	-43.4	
	2.840	-19.0	V	3.0	36.2	1.0	-54.2	-13.0	-41.2	
	1.420	-26.0	H	3.0	37.8	1.0	-62.7	-13.0	-49.7	
	2.130	-22.0	H	3.0	36.7	1.0	-57.7	-13.0	-44.7	
	2.840	-19.6	H	3.0	36.2	1.0	-54.8	-13.0	-41.8	
	High Ch, 713.5MHz									
	1.427	-26.6	V	3.0	37.7	1.0	-63.4	-13.0	-50.4	
	2.141	-20.8	V	3.0	36.7	1.0	-56.5	-13.0	-43.5	
	2.854	-19.5	V	3.0	36.2	1.0	-54.7	-13.0	-41.7	
	1.427	-26.3	H	3.0	37.7	1.0	-63.0	-13.0	-50.0	
	2.141	-21.9	H	3.0	36.7	1.0	-57.5	-13.0	-44.5	
2.854	-19.8	H	3.0	36.2	1.0	-55.0	-13.0	-42.0		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:	Sony									
Project #:	15U20030									
Date:	03/06/15									
Test Engineer:	Jude Semana									
Configuration:	EUT + Charger									
Mode:	LTE17 5M QPSK HARM									
Chamber 3m Chamber Pre-amplifier T34 8449B Filter Filter 1 Limit Part 27										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE17 5MHz QPSK	Low Ch, 706.5MHz									
	1.413	-26.0	V	3.0	37.8	1.0	-62.8	-13.0	-49.8	
	2.120	-21.5	V	3.0	36.7	1.0	-57.2	-13.0	-44.2	
	2.283	-21.1	V	3.0	36.6	1.0	-56.7	-13.0	-43.7	
	1.413	-26.5	H	3.0	37.8	1.0	-63.3	-13.0	-50.3	
	2.120	-21.9	H	3.0	36.7	1.0	-57.6	-13.0	-44.6	
	2.283	-21.6	H	3.0	36.6	1.0	-57.1	-13.0	-44.1	
	Mid Ch, 710MHz									
	1.420	-26.5	V	3.0	37.8	1.0	-63.3	-13.0	-50.3	
	2.130	-21.1	V	3.0	36.7	1.0	-56.8	-13.0	-43.8	
	2.840	-19.1	V	3.0	36.2	1.0	-54.2	-13.0	-41.2	
	1.420	-26.5	H	3.0	37.8	1.0	-63.2	-13.0	-50.2	
	2.130	-22.3	H	3.0	36.7	1.0	-58.0	-13.0	-45.0	
	2.840	-19.3	H	3.0	36.2	1.0	-54.5	-13.0	-41.5	
	High Ch, 713.5MHz									
	1.427	-26.9	V	3.0	37.7	1.0	-63.6	-13.0	-50.6	
	2.141	-21.2	V	3.0	36.7	1.0	-56.9	-13.0	-43.9	
	2.854	-19.2	V	3.0	36.2	1.0	-54.4	-13.0	-41.4	
1.427	-26.9	H	3.0	37.7	1.0	-63.6	-13.0	-50.6		
2.141	-22.2	H	3.0	36.7	1.0	-57.9	-13.0	-44.9		
2.854	-20.0	H	3.0	36.2	1.0	-55.1	-13.0	-42.1		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

LTE Band 12

UL Verification Services Chamber A Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15U20030								
Date:		3/6/2015								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT AC charger and HS								
Location:		Chamber A								
Mode:		LTE_16QAM Band 12 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch,704									
LTE12 10MHz 16QAM	1408.00	-12.9	V	3.0	37.4	1.0	-49.3	-13.0	-36.3	
	2112.00	-28.2	V	3.0	36.6	1.0	-63.7	-13.0	-50.7	
	2816.00	-27.5	V	3.0	36.4	1.0	-62.9	-13.0	-49.9	
	1408.00	-11.4	H	3.0	37.4	1.0	-47.7	-13.0	-34.7	
	2112.00	-29.6	H	3.0	36.6	1.0	-65.2	-13.0	-52.2	
	2816.00	-28.5	H	3.0	36.4	1.0	-63.9	-13.0	-50.9	
	Mid Ch,707.5									
	1415.00	-10.7	V	3.0	37.3	1.0	-47.1	-13.0	-34.1	
	2122.50	-22.3	V	3.0	36.6	1.0	-57.9	-13.0	-44.9	
	2830.00	-27.6	V	3.0	36.4	1.0	-63.0	-13.0	-50.0	
	1415.00	-8.7	H	3.0	37.3	1.0	-45.1	-13.0	-32.1	
	2122.50	-25.6	H	3.0	36.6	1.0	-61.2	-13.0	-48.2	
	2830.00	-28.5	H	3.0	36.4	1.0	-63.9	-13.0	-50.9	
	High Ch,711									
	1422.00	-10.4	V	3.0	37.3	1.0	-46.7	-13.0	-33.7	
	2133.00	-25.6	V	3.0	36.6	1.0	-61.1	-13.0	-48.1	
	2844.00	-23.1	V	3.0	36.4	1.0	-58.5	-13.0	-45.5	
	1422.00	-10.4	H	3.0	37.3	1.0	-46.7	-13.0	-33.7	
	2133.00	-27.7	H	3.0	36.6	1.0	-63.3	-13.0	-50.3	
	2844.00	-26.3	H	3.0	36.4	1.0	-61.6	-13.0	-48.6	

	UL Verification Services Chamber A Above 1GHz High Frequency Substitution Measurement									
	Company:		Sony							
	Project #:		15U20030							
	Date:		3/6/2015							
	Test Engineer:		O. Stoelting							
	Configuration:		X-pos EUT AC charger and HS							
	Location:		Chamber A							
	Mode:		LTE_16QAM Band 12 Harmonics, 5MHz Bandwidth							
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE12	Low Ch, 701.50									
	1403.00	-5.5	V	3.0	37.4	1.0	-41.8	-13.0	-28.8	
	2104.50	-25.1	V	3.0	36.6	1.0	-60.7	-13.0	-47.7	
5MHz	2806.00	-27.5	V	3.0	36.4	1.0	-62.9	-13.0	-49.9	
	1403.00	-12.0	H	3.0	37.4	1.0	-48.3	-13.0	-35.3	
16QAM	2104.50	-29.6	H	3.0	36.6	1.0	-65.2	-13.0	-52.2	
	2806.00	-28.5	H	3.0	36.4	1.0	-63.9	-13.0	-50.9	
	Mid Ch, 707.50									
	1415.00	-4.0	V	3.0	37.3	1.0	-40.3	-13.0	-27.3	
	2122.50	-16.8	V	3.0	36.6	1.0	-52.3	-13.0	-39.3	
	2830.00	-27.5	V	3.0	36.4	1.0	-62.8	-13.0	-49.8	
	1415.00	-5.9	H	3.0	37.3	1.0	-42.2	-13.0	-29.2	
	2122.50	-22.5	H	3.0	36.6	1.0	-58.1	-13.0	-45.1	
	2830.00	-28.4	H	3.0	36.4	1.0	-63.8	-13.0	-50.8	
	High Ch, 713.50									
1427.00	-12.1	V	3.0	37.3	1.0	-48.4	-13.0	-35.4		
2140.50	-27.0	V	3.0	36.6	1.0	-62.6	-13.0	-49.6		
2854.00	-27.7	V	3.0	36.4	1.0	-63.1	-13.0	-50.1		
1427.00	-13.2	H	3.0	37.3	1.0	-49.5	-13.0	-36.5		
2140.50	-23.2	H	3.0	36.6	1.0	-58.8	-13.0	-45.8		
2854.00	-28.4	H	3.0	36.4	1.0	-63.7	-13.0	-50.7		

UL Verification Services Chamber A										
Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15U20030								
Date:		3/6/2015								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT AC charger and HS								
Location:		Chamber A								
Mode:		LTE_QPSK Band 12 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 701.50									
	1403.00	-5.2	V	3.0	37.4	1.0	-41.5	-13.0	-28.5	
	2104.50	-25.0	V	3.0	36.6	1.0	-60.5	-13.0	-47.5	
	2806.00	-27.3	V	3.0	36.4	1.0	-62.7	-13.0	-49.7	
	1403.00	-12.3	H	3.0	37.4	1.0	-48.7	-13.0	-35.7	
	2104.50	-29.6	H	3.0	36.6	1.0	-65.2	-13.0	-52.2	
	2806.00	-28.4	H	3.0	36.4	1.0	-63.8	-13.0	-50.8	
	Mid Ch, 707.50									
	1415.00	-5.0	V	3.0	37.3	1.0	-41.4	-13.0	-28.4	
	2122.50	-16.2	V	3.0	36.6	1.0	-51.8	-13.0	-38.8	
	2830.00	-27.4	V	3.0	36.4	1.0	-62.8	-13.0	-49.8	
	1415.00	-6.1	H	3.0	37.3	1.0	-42.5	-13.0	-29.5	
	2122.50	-22.7	H	3.0	36.6	1.0	-58.2	-13.0	-45.2	
	2830.00	-28.3	H	3.0	36.4	1.0	-63.7	-13.0	-50.7	
	High Ch, 713.50									
	1427.00	-12.7	V	3.0	37.3	1.0	-49.0	-13.0	-36.0	
	2140.50	-26.6	V	3.0	36.6	1.0	-62.2	-13.0	-49.2	
	2854.00	-27.5	V	3.0	36.4	1.0	-62.9	-13.0	-49.9	
	1427.00	-13.0	H	3.0	37.3	1.0	-49.3	-13.0	-36.3	
	2140.50	-22.9	H	3.0	36.6	1.0	-58.4	-13.0	-45.4	
	2854.00	-28.5	H	3.0	36.4	1.0	-63.8	-13.0	-50.8	

UL Verification Services Chamber A									
Above 1GHz High Frequency Substitution Measurement									
Band	Company:		Sony						
	Project #:		15U20030						
	Date:		3/6/2015						
	Test Engineer:		O. Stoelting						
	Configuration:		X-pos EUT AC charger and HS						
	Location:		Chamber A						
	Mode:		LTE_16QAM Band 12 Harmonics, 3MHz Bandwidth						
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)
	Notes								
	Low Ch, 700.5								
	1401.00	-4.9	V	3.0	37.4	1.0	-41.3	-13.0	-28.3
	2101.50	-23.6	V	3.0	36.6	1.0	-59.1	-13.0	-46.1
	2802.00	-27.8	V	3.0	36.4	1.0	-63.2	-13.0	-50.2
	1401.00	-3.1	H	3.0	37.4	1.0	-39.5	-13.0	-26.5
	2101.50	-27.8	H	3.0	36.6	1.0	-63.3	-13.0	-50.3
	2802.00	-28.7	H	3.0	36.4	1.0	-64.0	-13.0	-51.0
	Mid Ch, 707.50								
	1415.00	-3.5	V	3.0	37.3	1.0	-39.9	-13.0	-26.9
	2122.00	-17.4	V	3.0	36.6	1.0	-53.0	-13.0	-40.0
	2830.00	-27.5	V	3.0	36.4	1.0	-62.8	-13.0	-49.8
	1415.00	-2.7	H	3.0	37.3	1.0	-39.0	-13.0	-26.0
	2122.00	-20.7	H	3.0	36.6	1.0	-56.3	-13.0	-43.3
	2830.00	-28.4	H	3.0	36.4	1.0	-63.7	-13.0	-50.7
	High Ch, 714.5								
	1429.00	-1.3	V	3.0	37.3	1.0	-37.6	-13.0	-24.6
	2143.50	-23.3	V	3.0	36.6	1.0	-58.8	-13.0	-45.8
	2858.00	-27.0	V	3.0	36.4	1.0	-62.4	-13.0	-49.4
	1429.00	-1.8	H	3.0	37.3	1.0	-38.1	-13.0	-25.1
	2143.50	-27.0	H	3.0	36.6	1.0	-62.6	-13.0	-49.6
	2858.00	-28.1	H	3.0	36.4	1.0	-63.5	-13.0	-50.5

UL Verification Services Chamber A									
Above 1GHz High Frequency Substitution Measurement									
Band	Company:		Sony						
	Project #:		15U20030						
	Date:		3/6/2015						
	Test Engineer:		O. Stoelting						
	Configuration:		X-pos EUT AC charger and HS						
	Location:		Chamber A						
	Mode:		LTE_16QAM Band 12 Harmonics, 1.4MHz Bandwidth						
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)
	Low Ch, 699.7								
	1399.40	-5.6	V	3.0	37.4	1.0	-42.0	-13.0	-29.0
	2099.10	-26.2	V	3.0	36.6	1.0	-61.7	-13.0	-48.7
	2798.80	-27.0	V	3.0	36.4	1.0	-62.3	-13.0	-49.3
	1399.40	-3.3	H	3.0	37.4	1.0	-39.7	-13.0	-26.7
	2099.10	-28.3	H	3.0	36.6	1.0	-63.9	-13.0	-50.9
	2798.80	-28.7	H	3.0	36.4	1.0	-64.1	-13.0	-51.1
	Mid Ch, 707.50								
	1415.00	-3.4	V	3.0	37.3	1.0	-39.7	-13.0	-26.7
	2122.00	-20.4	V	3.0	36.6	1.0	-56.0	-13.0	-43.0
	2830.00	-27.5	V	3.0	36.4	1.0	-62.9	-13.0	-49.9
	1415.00	-3.6	H	3.0	37.3	1.0	-40.0	-13.0	-27.0
	2122.00	-24.2	H	3.0	36.6	1.0	-59.8	-13.0	-46.8
	2830.00	-28.3	H	3.0	36.4	1.0	-63.7	-13.0	-50.7
	High Ch, 715.3								
	1430.60	-1.0	V	3.0	37.3	1.0	-37.4	-13.0	-24.4
	2145.90	-23.9	V	3.0	36.6	1.0	-59.4	-13.0	-46.4
	2861.20	-26.1	V	3.0	36.4	1.0	-61.5	-13.0	-48.5
	1430.60	-3.2	H	3.0	37.3	1.0	-39.5	-13.0	-26.5
	2145.90	-28.4	H	3.0	36.6	1.0	-63.9	-13.0	-50.9
	2861.20	-28.2	H	3.0	36.4	1.0	-63.6	-13.0	-50.6

LTE Band 7

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		Sony							
Project #:		15U20030							
Date:		3/6/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ HS							
Location:		Chamber A							
Mode:		LTE_16QAM Band 7 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2510									
5020.00	-20.6	V	3.0	35.5	1.0	-55.1	-25.0	-30.1	
7530.00	-19.1	V	3.0	35.7	1.0	-53.8	-25.0	-28.8	
10040.00	-16.8	V	3.0	36.0	1.0	-51.8	-25.0	-26.8	
5020.00	-20.1	H	3.0	35.5	1.0	-54.6	-25.0	-29.6	
7530.00	-18.0	H	3.0	35.7	1.0	-52.7	-25.0	-27.7	
10040.00	-15.7	H	3.0	36.0	1.0	-50.7	-25.0	-25.7	
Mid Ch, 2535									
5070.00	-19.9	V	3.0	35.4	1.0	-54.4	-25.0	-29.4	
7605.00	-19.0	V	3.0	35.8	1.0	-53.7	-25.0	-28.7	
10140.00	-16.5	V	3.0	36.0	1.0	-51.5	-25.0	-26.5	
5070.00	-19.7	H	3.0	35.4	1.0	-54.2	-25.0	-29.2	
7605.00	-17.9	H	3.0	35.8	1.0	-52.7	-25.0	-27.7	
10140.00	-15.6	H	3.0	36.0	1.0	-50.5	-25.0	-25.5	
High Ch, 2560									
5120.00	-20.2	V	3.0	35.4	1.0	-54.7	-25.0	-29.7	
7680.00	-18.6	V	3.0	35.8	1.0	-53.4	-25.0	-28.4	
10240.00	-16.4	V	3.0	35.9	1.0	-51.3	-25.0	-26.3	
5120.00	-19.0	H	3.0	35.4	1.0	-53.4	-25.0	-28.4	
7680.00	-17.9	H	3.0	35.8	1.0	-52.7	-25.0	-27.7	
10240.00	-15.8	H	3.0	35.9	1.0	-50.7	-25.0	-25.7	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
	Company:		Sony							
	Project #:		15U20030							
	Date:		3/6/2015							
	Test Engineer:		O. Stoelting							
	Configuration:		X-pos EUT/ AC Charger/ HS							
	Location:		Chamber A							
	Mode:		LTE_QPSK Band 7 Harmonics, 20MHz Bandwidth							
Band LTE7 20MHz QPSK	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2510									
	5020.00	-20.4	V	3.0	35.5	1.0	-54.9	-25.0	-29.9	
	7530.00	-19.1	V	3.0	35.7	1.0	-53.8	-25.0	-28.8	
	10040.00	-16.7	V	3.0	36.0	1.0	-51.8	-25.0	-26.8	
	5020.00	-19.9	H	3.0	35.5	1.0	-54.4	-25.0	-29.4	
	7530.00	-17.9	H	3.0	35.7	1.0	-52.7	-25.0	-27.7	
	10040.00	-15.8	H	3.0	36.0	1.0	-50.8	-25.0	-25.8	
	Mid Ch, 2535									
	5070.00	-20.3	V	3.0	35.4	1.0	-54.7	-25.0	-29.7	
	7605.00	-18.6	V	3.0	35.8	1.0	-53.4	-25.0	-28.4	
	10140.00	-16.5	V	3.0	36.0	1.0	-51.4	-25.0	-26.4	
	5070.00	-19.8	H	3.0	35.4	1.0	-54.3	-25.0	-29.3	
	7605.00	-17.8	H	3.0	35.8	1.0	-52.6	-25.0	-27.6	
	10140.00	-15.8	H	3.0	36.0	1.0	-50.8	-25.0	-25.8	
	High Ch, 2560									
	5120.00	-20.2	V	3.0	35.4	1.0	-54.6	-25.0	-29.6	
	7680.00	-18.9	V	3.0	35.8	1.0	-53.6	-25.0	-28.6	
	10240.00	-16.4	V	3.0	35.9	1.0	-51.3	-25.0	-26.3	
	5120.00	-19.5	H	3.0	35.4	1.0	-53.9	-25.0	-28.9	
	7680.00	-17.8	H	3.0	35.8	1.0	-52.5	-25.0	-27.5	
	10240.00	-15.7	H	3.0	35.9	1.0	-50.6	-25.0	-25.6	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		Sony							
Project #:		15U20030							
Date:		3/6/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ HS							
Location:		Chamber A							
Mode:		LTE_16QAM Band 7 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2507.5									
5015.00	-20.4	V	3.0	35.5	1.0	-54.8	-25.0	-29.8	
7522.50	-19.1	V	3.0	35.7	1.0	-53.8	-25.0	-28.8	
10030.00	-16.9	V	3.0	36.0	1.0	-51.9	-25.0	-26.9	
5015.00	-20.0	H	3.0	35.5	1.0	-54.5	-25.0	-29.5	
7522.50	-18.2	H	3.0	35.7	1.0	-52.9	-25.0	-27.9	
10030.00	-15.8	H	3.0	36.0	1.0	-50.8	-25.0	-25.8	
Mid Ch, 2535									
5070.00	-20.3	V	3.0	35.4	1.0	-54.7	-25.0	-29.7	
7605.00	-19.0	V	3.0	35.8	1.0	-53.7	-25.0	-28.7	
10140.00	-16.5	V	3.0	36.0	1.0	-51.5	-25.0	-26.5	
5070.00	-19.7	H	3.0	35.4	1.0	-54.2	-25.0	-29.2	
7605.00	-17.8	H	3.0	35.8	1.0	-52.6	-25.0	-27.6	
10140.00	-15.6	H	3.0	36.0	1.0	-50.5	-25.0	-25.5	
High Ch, 2562.5									
5125.00	-19.7	V	3.0	35.4	1.0	-54.2	-25.0	-29.2	
7687.50	-18.9	V	3.0	35.8	1.0	-53.7	-25.0	-28.7	
10250.00	-16.4	V	3.0	35.9	1.0	-51.3	-25.0	-26.3	
5125.00	-18.3	H	3.0	35.4	1.0	-52.8	-25.0	-27.8	
7687.50	-17.8	H	3.0	35.8	1.0	-52.6	-25.0	-27.6	
10250.00	-15.7	H	3.0	35.9	1.0	-50.6	-25.0	-25.6	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		Sony							
Project #:		15U20030							
Date:		3/6/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ HS							
Location:		Chamber A							
Mode:		LTE_QPSK Band 7 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2507.5									
5015.00	-20.6	V	3.0	35.5	1.0	-55.1	-25.0	-30.1	
7522.50	-19.1	V	3.0	35.7	1.0	-53.8	-25.0	-28.8	
10030.00	-16.7	V	3.0	36.0	1.0	-51.7	-25.0	-26.7	
5015.00	-20.1	H	3.0	35.5	1.0	-54.6	-25.0	-29.6	
7522.50	-18.2	H	3.0	35.7	1.0	-53.0	-25.0	-28.0	
10030.00	-15.8	H	3.0	36.0	1.0	-50.9	-25.0	-25.9	
Mid Ch, 2535									
5070.00	-20.1	V	3.0	35.4	1.0	-54.5	-25.0	-29.5	
7605.00	-18.8	V	3.0	35.8	1.0	-53.6	-25.0	-28.6	
10140.00	-16.4	V	3.0	36.0	1.0	-51.4	-25.0	-26.4	
5070.00	-19.7	H	3.0	35.4	1.0	-54.1	-25.0	-29.1	
7605.00	-17.9	H	3.0	35.8	1.0	-52.6	-25.0	-27.6	
10140.00	-15.8	H	3.0	36.0	1.0	-50.7	-25.0	-25.7	
High Ch, 2562.5									
5125.00	-19.9	V	3.0	35.4	1.0	-54.3	-25.0	-29.3	
7687.50	-18.9	V	3.0	35.8	1.0	-53.6	-25.0	-28.6	
10250.00	-16.5	V	3.0	35.9	1.0	-51.4	-25.0	-26.4	
5125.00	-18.5	H	3.0	35.4	1.0	-52.9	-25.0	-27.9	
7687.50	-17.9	H	3.0	35.8	1.0	-52.6	-25.0	-27.6	
10250.00	-15.7	H	3.0	35.9	1.0	-50.6	-25.0	-25.6	

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

Company:

Sony

Project #:

15U20030

Date:

3/6/2015

Test Engineer:

O. Stoelting

Configuration:

X-pos EUT/ AC Charger/ HS

Location:

Chamber A

Mode:

LTE_16QAM Band 7 Harmonics, 10MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2505									
5010.00	-20.6	V	3.0	35.5	1.0	-55.1	-25.0	-30.1	
7515.00	-19.2	V	3.0	35.7	1.0	-54.0	-25.0	-29.0	
10020.00	-16.8	V	3.0	36.0	1.0	-51.8	-25.0	-26.8	
5010.00	-20.0	H	3.0	35.5	1.0	-54.5	-25.0	-29.5	
7515.00	-15.3	H	3.0	35.7	1.0	-50.0	-25.0	-25.0	
10020.00	-15.9	H	3.0	36.0	1.0	-50.9	-25.0	-25.9	
Mid Ch, 2535									
5070.00	-20.2	V	3.0	35.4	1.0	-54.7	-25.0	-29.7	
7605.00	-18.9	V	3.0	35.8	1.0	-53.6	-25.0	-28.6	
10140.00	-16.4	V	3.0	36.0	1.0	-51.4	-25.0	-26.4	
5070.00	-19.8	H	3.0	35.4	1.0	-54.3	-25.0	-29.3	
7605.00	-17.9	H	3.0	35.8	1.0	-52.6	-25.0	-27.6	
10140.00	-15.6	H	3.0	36.0	1.0	-50.6	-25.0	-25.6	
High Ch, 2565									
5130.00	-17.8	V	3.0	35.4	1.0	-52.2	-25.0	-27.2	
7695.00	-19.0	V	3.0	35.8	1.0	-53.8	-25.0	-28.8	
10260.00	-16.4	V	3.0	35.9	1.0	-51.3	-25.0	-26.3	
5130.00	-16.9	H	3.0	35.4	1.0	-51.3	-25.0	-26.3	
7695.00	-17.8	H	3.0	35.8	1.0	-52.6	-25.0	-27.6	
10260.00	-15.8	H	3.0	35.9	1.0	-50.7	-25.0	-25.7	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		Sony							
Project #:		15U20030							
Date:		3/6/2015							
Test Engineer:		O. Stoelting							
Configuration:		X-pos EUT/ AC Charger/ HS							
Location:		Chamber A							
Mode:		LTE_QPSK Band 7 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2505									
5010.00	-20.4	V	3.0	35.5	1.0	-54.9	-25.0	-29.9	
7515.00	-19.3	V	3.0	35.7	1.0	-54.1	-25.0	-29.1	
10020.00	-16.8	V	3.0	36.0	1.0	-51.8	-25.0	-26.8	
5010.00	-19.8	H	3.0	35.5	1.0	-54.3	-25.0	-29.3	
7515.00	-18.0	H	3.0	35.7	1.0	-52.8	-25.0	-27.8	
10020.00	-16.0	H	3.0	36.0	1.0	-51.0	-25.0	-26.0	
Mid Ch, 2535									
5070.00	-20.1	V	3.0	35.4	1.0	-54.5	-25.0	-29.5	
7605.00	-19.0	V	3.0	35.8	1.0	-53.8	-25.0	-28.8	
10140.00	-16.3	V	3.0	36.0	1.0	-51.3	-25.0	-26.3	
5070.00	-19.7	H	3.0	35.4	1.0	-54.1	-25.0	-29.1	
7605.00	-17.9	H	3.0	35.8	1.0	-52.6	-25.0	-27.6	
10140.00	-15.7	H	3.0	36.0	1.0	-50.7	-25.0	-25.7	
High Ch, 2565									
5130.00	-18.0	V	3.0	35.4	1.0	-52.5	-25.0	-27.5	
7695.00	-19.0	V	3.0	35.8	1.0	-53.8	-25.0	-28.8	
10260.00	-16.3	V	3.0	35.9	1.0	-51.2	-25.0	-26.2	
5130.00	-17.5	H	3.0	35.4	1.0	-51.9	-25.0	-26.9	
7695.00	-17.7	H	3.0	35.8	1.0	-52.5	-25.0	-27.5	
10260.00	-15.8	H	3.0	35.9	1.0	-50.7	-25.0	-25.7	

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Sony

15U20030

3/6/2015

O. Stoelting

X-pos EUT/ AC Charger/ HS

Chamber A

LTE_16QAM Band 7 Harmonics, 5MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2502.5									
5005.00	-20.7	V	3.0	35.5	1.0	-55.1	-25.0	-30.1	
7507.50	-19.1	V	3.0	35.7	1.0	-53.9	-25.0	-28.9	
10010.00	-16.9	V	3.0	36.0	1.0	-51.9	-25.0	-26.9	
5005.00	-19.8	H	3.0	35.5	1.0	-54.3	-25.0	-29.3	
7507.50	-18.0	H	3.0	35.7	1.0	-52.7	-25.0	-27.7	
10010.00	-16.1	H	3.0	36.0	1.0	-51.1	-25.0	-26.1	
Mid Ch, 2535									
5070.00	-20.1	V	3.0	35.4	1.0	-54.5	-25.0	-29.5	
7605.00	-18.8	V	3.0	35.8	1.0	-53.6	-25.0	-28.6	
10140.00	-16.5	V	3.0	36.0	1.0	-51.5	-25.0	-26.5	
5070.00	-19.5	H	3.0	35.4	1.0	-53.9	-25.0	-28.9	
7605.00	-17.7	H	3.0	35.8	1.0	-52.5	-25.0	-27.5	
10140.00	-15.7	H	3.0	36.0	1.0	-50.6	-25.0	-25.6	
High Ch, 2567.5									
5135.00	-16.3	V	3.0	35.4	1.0	-50.8	-25.0	-25.8	
7702.50	-18.8	V	3.0	35.8	1.0	-53.6	-25.0	-28.6	
10270.00	-16.5	V	3.0	35.9	1.0	-51.4	-25.0	-26.4	
5135.00	-16.9	H	3.0	35.4	1.0	-51.3	-25.0	-26.3	
7702.50	-17.8	H	3.0	35.8	1.0	-52.5	-25.0	-27.5	
10270.00	-15.7	H	3.0	35.9	1.0	-50.6	-25.0	-25.6	

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Sony

15U20030

3/6/2015

O. Stoelting

X-pos EUT/ AC Charger/ HS

Chamber A

LTE_QPSK Band 7 Harmonics, 5MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2502.5									
5005.00	-20.4	V	3.0	35.5	1.0	-54.8	-25.0	-29.8	
7507.50	-19.1	V	3.0	35.7	1.0	-53.8	-25.0	-28.8	
10010.00	-16.8	V	3.0	36.0	1.0	-51.8	-25.0	-26.8	
5005.00	-19.9	H	3.0	35.5	1.0	-54.4	-25.0	-29.4	
7507.50	-18.1	H	3.0	35.7	1.0	-52.9	-25.0	-27.9	
10010.00	-15.9	H	3.0	36.0	1.0	-50.9	-25.0	-25.9	
Mid Ch, 2535									
5070.00	-20.1	V	3.0	35.4	1.0	-54.6	-25.0	-29.6	
7605.00	-18.6	V	3.0	35.8	1.0	-53.4	-25.0	-28.4	
10140.00	-16.2	V	3.0	36.0	1.0	-51.2	-25.0	-26.2	
5070.00	-19.8	H	3.0	35.4	1.0	-54.2	-25.0	-29.2	
7605.00	-17.9	H	3.0	35.8	1.0	-52.6	-25.0	-27.6	
10140.00	-15.7	H	3.0	36.0	1.0	-50.7	-25.0	-25.7	
High Ch, 2567.5									
5135.00	-16.0	V	3.0	35.4	1.0	-50.4	-25.0	-25.4	
7702.50	-18.7	V	3.0	35.8	1.0	-53.4	-25.0	-28.4	
10270.00	-16.5	V	3.0	35.9	1.0	-51.4	-25.0	-26.4	
5135.00	-17.0	H	3.0	35.4	1.0	-51.4	-25.0	-26.4	
7702.50	-17.5	H	3.0	35.8	1.0	-52.3	-25.0	-27.3	
10270.00	-15.7	H	3.0	35.9	1.0	-50.6	-25.0	-25.6	

LTE Band 5

UL Verification Services Above 1GHz High Frequency Substitution Measurement									
Company:		Sony							
Project #:		15U20030							
Date:		03/06/15							
Test Engineer:		Jude Semana							
Configuration:		EUT + Charger							
Mode:		LTE5 16QAM 10MHz Harm							
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber		T34 8449B		Filter 1		Part 22			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 829MHz									
1.658	-23.7	V	3.0	37.4	1.0	-60.1	-13.0	-47.1	
2.487	-18.9	V	3.0	36.4	1.0	-54.2	-13.0	-41.2	
3.316	-18.3	V	3.0	35.8	1.0	-53.1	-13.0	-40.1	
1.658	-23.9	H	3.0	37.4	1.0	-60.3	-13.0	-47.3	
2.487	-20.1	H	3.0	36.4	1.0	-55.4	-13.0	-42.4	
3.316	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
Mid Ch, 836.5MHz									
1.673	-23.4	V	3.0	37.3	1.0	-59.7	-13.0	-46.7	
2.510	-19.3	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
3.346	-18.7	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
1.673	-24.0	H	3.0	37.3	1.0	-60.3	-13.0	-47.3	
2.510	-21.0	H	3.0	36.4	1.0	-56.4	-13.0	-43.4	
3.346	-18.4	H	3.0	35.8	1.0	-53.1	-13.0	-40.1	
High Ch, 844MHz									
1.688	-23.5	V	3.0	37.3	1.0	-59.9	-13.0	-46.9	
2.532	-19.9	V	3.0	36.3	1.0	-55.2	-13.0	-42.2	
3.376	-18.7	V	3.0	35.7	1.0	-53.4	-13.0	-40.4	
1.688	-24.0	H	3.0	37.3	1.0	-60.3	-13.0	-47.3	
2.532	-21.5	H	3.0	36.3	1.0	-56.8	-13.0	-43.8	
3.376	-18.9	H	3.0	35.7	1.0	-53.7	-13.0	-40.7	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:	Sony 15U20030 03/06/15 Jude Semana EUT + Charger LTE5 QPSK 10MHz Harm									
Chamber Pre-amplifier Filter Limit 3m Chamber ▼ T34 8449B ▼ Filter 1 ▼ Part 22 ▼										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 10MHz QPSK	Low Ch, 829MHz									
	1.658	-23.9	V	3.0	37.4	1.0	-60.2	-13.0	-47.2	
	2.487	-18.6	V	3.0	36.4	1.0	-54.0	-13.0	-41.0	
	3.316	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
	1.658	-24.3	H	3.0	37.4	1.0	-60.6	-13.0	-47.6	
	2.487	-20.6	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
	3.316	-19.4	H	3.0	35.8	1.0	-54.2	-13.0	-41.2	
	Mid Ch, 836.5MHz									
	1.673	-23.7	V	3.0	37.3	1.0	-60.0	-13.0	-47.0	
	2.510	-19.5	V	3.0	36.4	1.0	-54.9	-13.0	-41.9	
	3.346	-18.0	V	3.0	35.8	1.0	-52.8	-13.0	-39.8	
	1.673	-23.5	H	3.0	37.3	1.0	-59.8	-13.0	-46.8	
	2.510	-19.9	H	3.0	36.4	1.0	-55.3	-13.0	-42.3	
	3.346	-18.8	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
	High Ch, 844MHz									
	1.688	-23.4	V	3.0	37.3	1.0	-59.7	-13.0	-46.7	
	2.532	-19.2	V	3.0	36.3	1.0	-54.5	-13.0	-41.5	
	3.376	-18.9	V	3.0	35.7	1.0	-53.6	-13.0	-40.6	
	1.688	-23.3	H	3.0	37.3	1.0	-59.6	-13.0	-46.6	
	2.532	-21.0	H	3.0	36.3	1.0	-56.4	-13.0	-43.4	
	3.376	-17.8	H	3.0	35.7	1.0	-52.5	-13.0	-39.5	
	Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		Sony 15U20030 03/06/15 Jude Semana EUT w/ AC Adaptor + HS, X-pos LTE5 16QAM 5MHz Harm								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		Part 22				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 5MHz 16QAM	Low Ch, 826.5MHz									
	1.653	-24.0	V	3.0	37.4	1.0	-60.4	-13.0	-47.4	
	2.480	-18.7	V	3.0	36.4	1.0	-54.1	-13.0	-41.1	
	3.306	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
	1.653	-24.3	H	3.0	37.4	1.0	-60.7	-13.0	-47.7	
	2.480	-20.6	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
	3.306	-19.7	H	3.0	35.8	1.0	-54.5	-13.0	-41.5	
	Mid Ch, 836.5MHz									
	1.673	-23.7	V	3.0	37.3	1.0	-60.0	-13.0	-47.0	
	2.510	-19.3	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
	3.346	-18.5	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
	1.673	-24.1	H	3.0	37.3	1.0	-60.4	-13.0	-47.4	
	2.510	-21.1	H	3.0	36.4	1.0	-56.5	-13.0	-43.5	
	3.346	-19.5	H	3.0	35.8	1.0	-54.2	-13.0	-41.2	
	High Ch, 846.5MHz									
	1.693	-22.3	V	3.0	37.3	1.0	-58.6	-13.0	-45.6	
	2.540	-19.1	V	3.0	36.3	1.0	-54.4	-13.0	-41.4	
	3.386	-18.0	V	3.0	35.7	1.0	-52.7	-13.0	-39.7	
	1.693	-23.5	H	3.0	37.3	1.0	-59.8	-13.0	-46.8	
	2.540	-21.0	H	3.0	36.3	1.0	-56.3	-13.0	-43.3	
	3.386	-18.3	H	3.0	35.7	1.0	-53.0	-13.0	-40.0	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Company:	Sony									
Project #:	15U20030									
Date:	03/06/15									
Test Engineer:	Jude Semana									
Configuration:	EUT w/ AC Adaptor + HS, X-pos									
Mode:	LTE5 QPSK 5MHz Harm									
Chamber Pre-amplifier Filter Limit 3m Chamber T34 8449B Filter 1 Part 22										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 5MHz QPSK	Low Ch, 826.5MHz									
	1.653	-23.9	V	3.0	37.4	1.0	-60.2	-13.0	-47.2	
	2.480	-18.2	V	3.0	36.4	1.0	-53.6	-13.0	-40.6	
	3.306	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
	1.653	-23.8	H	3.0	37.4	1.0	-60.2	-13.0	-47.2	
	2.480	-19.6	H	3.0	36.4	1.0	-54.9	-13.0	-41.9	
	3.306	-19.8	H	3.0	35.8	1.0	-54.6	-13.0	-41.6	
	Mid Ch, 836.5MHz									
	1.673	-23.6	V	3.0	37.3	1.0	-59.9	-13.0	-46.9	
	2.510	-19.3	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
	3.346	-19.0	V	3.0	35.8	1.0	-53.8	-13.0	-40.8	
	1.673	-23.7	H	3.0	37.3	1.0	-60.1	-13.0	-47.1	
	2.510	-21.1	H	3.0	36.4	1.0	-56.4	-13.0	-43.4	
	3.346	-19.2	H	3.0	35.8	1.0	-54.0	-13.0	-41.0	
	High Ch, 846.5MHz									
	1.693	-23.1	V	3.0	37.3	1.0	-59.4	-13.0	-46.4	
	2.540	-19.0	V	3.0	36.3	1.0	-54.4	-13.0	-41.4	
	3.386	-18.4	V	3.0	35.7	1.0	-53.1	-13.0	-40.1	
	1.693	-23.2	H	3.0	37.3	1.0	-59.5	-13.0	-46.5	
	2.540	-20.9	H	3.0	36.3	1.0	-56.2	-13.0	-43.2	
	3.386	-18.6	H	3.0	35.7	1.0	-53.3	-13.0	-40.3	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Band LTE5 3MHz 16QAM	Company: Sony									
	Project #: 15U20030									
	Date: 03/06/15									
	Test Engineer: Jude Semana									
	Configuration: EUT + Charger									
	Mode: LTE5 16QAM 3MHz Harm									
	Chamber 3m Chamber		Pre-amplifier T34 8449B		Filter Filter 1		Limit Part 22			
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 825.5MHz									
	1.651	-23.5	V	3.0	37.4	1.0	-59.9	-13.0	-46.9	
2.477	-18.7	V	3.0	36.4	1.0	-54.0	-13.0	-41.0		
3.302	-18.9	V	3.0	35.8	1.0	-53.7	-13.0	-40.7		
1.651	-25.0	H	3.0	37.4	1.0	-61.4	-13.0	-48.4		
2.477	-19.6	H	3.0	36.4	1.0	-55.0	-13.0	-42.0		
3.302	-19.5	H	3.0	35.8	1.0	-54.2	-13.0	-41.2		
Mid Ch, 836.5MHz										
1.673	-23.6	V	3.0	37.3	1.0	-59.9	-13.0	-46.9		
2.510	-19.3	V	3.0	36.4	1.0	-54.7	-13.0	-41.7		
3.346	-18.2	V	3.0	35.8	1.0	-53.0	-13.0	-40.0		
1.673	-23.9	H	3.0	37.3	1.0	-60.3	-13.0	-47.3		
2.510	-21.0	H	3.0	36.4	1.0	-56.3	-13.0	-43.3		
3.346	-18.5	H	3.0	35.8	1.0	-53.2	-13.0	-40.2		
High Ch, 847.5MHz										
1.695	-22.9	V	3.0	37.3	1.0	-59.2	-13.0	-46.2		
2.543	-19.5	V	3.0	36.3	1.0	-54.8	-13.0	-41.8		
3.390	-17.7	V	3.0	35.7	1.0	-52.4	-13.0	-39.4		
1.695	-23.4	H	3.0	37.3	1.0	-59.7	-13.0	-46.7		
2.543	-21.5	H	3.0	36.3	1.0	-56.8	-13.0	-43.8		
3.390	-18.9	H	3.0	35.7	1.0	-53.6	-13.0	-40.6		

UL Verification Services											
Above 1GHz High Frequency Substitution Measurement											
	Company:	Sony									
	Project #:	15U20030									
	Date:	03/06/15									
	Test Engineer:	Jude Semana									
	Configuration:	EUT + Charger									
	Mode:	LTE5 QPSK 3MHz Harm									
		Chamber	Pre-amplifier	Filter	Limit						
		3m Chamber	T34 8449B	Filter 1	Part 22						
Band		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5		Low Ch, 825.5MHz									
3MHz		1.651	-23.8	V	3.0	37.4	1.0	-60.2	-13.0	-47.2	
		2.477	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
QPSK		3.302	-18.1	V	3.0	35.8	1.0	-52.9	-13.0	-39.9	
		1.651	-24.4	H	3.0	37.4	1.0	-60.7	-13.0	-47.7	
		2.477	-19.8	H	3.0	36.4	1.0	-55.2	-13.0	-42.2	
		3.302	-18.8	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
		Mid Ch, 836.5MHz									
		1.673	-23.4	V	3.0	37.3	1.0	-59.7	-13.0	-46.7	
		2.510	-19.1	V	3.0	36.4	1.0	-54.5	-13.0	-41.5	
		3.346	-18.7	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
		1.673	-23.7	H	3.0	37.3	1.0	-60.1	-13.0	-47.1	
		2.510	-20.6	H	3.0	36.4	1.0	-55.9	-13.0	-42.9	
		3.346	-18.6	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
		High Ch, 847.5MHz									
		1.695	-23.5	V	3.0	37.3	1.0	-59.8	-13.0	-46.8	
		2.543	-19.8	V	3.0	36.3	1.0	-55.2	-13.0	-42.2	
		3.390	-18.7	V	3.0	35.7	1.0	-53.5	-13.0	-40.5	
		1.695	-23.5	H	3.0	37.3	1.0	-59.8	-13.0	-46.8	
		2.543	-21.1	H	3.0	36.3	1.0	-56.4	-13.0	-43.4	
		3.390	-18.2	H	3.0	35.7	1.0	-53.0	-13.0	-40.0	

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Band LTE5 1.4MHz 16QAM	Company: Sony									
	Project #: 15U20030									
	Date: 03/06/15									
	Test Engineer: Jude Semana									
	Configuration: EUT + Charger									
	Mode: LTE5 1.4MHz 16QAM HARM									
	Chamber 3m Chamber		Pre-amplifier T34 8449B		Filter Filter 1		Limit Part 22			
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 824.7MHz									
	1.649	-24.0	V	3.0	37.4	1.0	-60.4	-13.0	-47.4	
2.474	-18.5	V	3.0	36.4	1.0	-53.9	-13.0	-40.9		
3.299	-18.8	V	3.0	35.8	1.0	-53.6	-13.0	-40.6		
1.649	-23.9	H	3.0	37.4	1.0	-60.3	-13.0	-47.3		
2.474	-20.7	H	3.0	36.4	1.0	-56.1	-13.0	-43.1		
3.299	-19.0	H	3.0	35.8	1.0	-53.8	-13.0	-40.8		
Mid Ch, 836.5MHz										
1.673	-23.4	V	3.0	37.3	1.0	-59.7	-13.0	-46.7		
2.510	-18.2	V	3.0	36.4	1.0	-53.6	-13.0	-40.6		
3.346	-17.5	V	3.0	35.8	1.0	-52.3	-13.0	-39.3		
1.673	-23.9	H	3.0	37.3	1.0	-60.3	-13.0	-47.3		
2.510	-20.4	H	3.0	36.4	1.0	-55.7	-13.0	-42.7		
3.346	-18.3	H	3.0	35.8	1.0	-53.0	-13.0	-40.0		
High Ch, 848.3MHz										
1.697	-23.0	V	3.0	37.3	1.0	-59.3	-13.0	-46.3		
2.545	-19.6	V	3.0	36.3	1.0	-54.9	-13.0	-41.9		
3.393	-18.6	V	3.0	35.7	1.0	-53.3	-13.0	-40.3		
1.697	-23.4	H	3.0	37.3	1.0	-59.7	-13.0	-46.7		
2.545	-21.0	H	3.0	36.3	1.0	-56.4	-13.0	-43.4		
3.393	-19.0	H	3.0	35.7	1.0	-53.8	-13.0	-40.8		

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Company:	Sony									
Project #:	15U20030									
Date:	03/06/15									
Test Engineer:	Jude Semana									
Configuration:	EUT + Charger									
Mode:	LTE5 1.4MHz QPSK HARM									
Chamber Pre-amplifier Filter Limit 3m Chamber T34 8449B Filter 1 Part 22										
Band LTE5 1.4MHz QPSK	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7MHz										
	1.649	-23.6	V	3.0	37.4	1.0	-60.0	-13.0	-47.0	
	2.474	-18.5	V	3.0	36.4	1.0	-53.9	-13.0	-40.9	
	3.299	-18.8	V	3.0	35.8	1.0	-53.6	-13.0	-40.6	
	1.649	-24.0	H	3.0	37.4	1.0	-60.3	-13.0	-47.3	
	2.474	-19.7	H	3.0	36.4	1.0	-55.1	-13.0	-42.1	
	3.299	-19.1	H	3.0	35.8	1.0	-53.9	-13.0	-40.9	
Mid Ch, 836.5MHz										
	1.673	-23.2	V	3.0	37.3	1.0	-59.6	-13.0	-46.6	
	2.510	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
	3.346	-18.3	V	3.0	35.8	1.0	-53.1	-13.0	-40.1	
	1.673	-23.9	H	3.0	37.3	1.0	-60.2	-13.0	-47.2	
	2.510	-20.3	H	3.0	36.4	1.0	-55.7	-13.0	-42.7	
	3.346	-18.2	H	3.0	35.8	1.0	-52.9	-13.0	-39.9	
High Ch, 848.3MHz										
	1.697	-23.4	V	3.0	37.3	1.0	-59.7	-13.0	-46.7	
	2.545	-19.2	V	3.0	36.3	1.0	-54.5	-13.0	-41.5	
	3.393	-18.0	V	3.0	35.7	1.0	-52.7	-13.0	-39.7	
	1.697	-23.6	H	3.0	37.3	1.0	-59.9	-13.0	-46.9	
	2.545	-20.3	H	3.0	36.3	1.0	-55.7	-13.0	-42.7	
	3.393	-18.9	H	3.0	35.7	1.0	-53.6	-13.0	-40.6	

LTE Band 4

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

Company:

Sony

Project #:

15U20030

Date:

3/5/2015

Test Engineer:

O. Stoelting

Configuration:

x-pos EUT/AC Charger/ HS

Location:

Chamber B

Mode:

LTE_16QAM Band 4 Harmonics, 20MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 20MHz 16QAM	Low Ch, 1720									
	3440.00	-25.9	V	3.0	36.0	1.0	-61.0	-13.0	-48.0	
	5160.00	-20.0	V	3.0	35.4	1.0	-54.5	-13.0	-41.5	
	6880.00	-19.4	V	3.0	35.7	1.0	-54.1	-13.0	-41.1	
	3440.00	-26.2	H	3.0	36.0	1.0	-61.2	-13.0	-48.2	
	5160.00	-19.0	H	3.0	35.4	1.0	-53.4	-13.0	-40.4	
	6880.00	-17.9	H	3.0	35.7	1.0	-52.6	-13.0	-39.6	
	Mid Ch, 1732.5									
	3465.00	-26.3	V	3.0	36.0	1.0	-61.3	-13.0	-48.3	
	5197.50	-20.1	V	3.0	35.4	1.0	-54.5	-13.0	-41.5	
	6930.00	-19.3	V	3.0	35.7	1.0	-54.0	-13.0	-41.0	
	3465.00	-25.4	H	3.0	36.0	1.0	-60.4	-13.0	-47.4	
	5197.50	-19.3	H	3.0	35.4	1.0	-53.7	-13.0	-40.7	
	6930.00	-17.8	H	3.0	35.7	1.0	-52.4	-13.0	-39.4	
	High Ch, 1745									
	3490.00	-26.0	V	3.0	36.0	1.0	-61.0	-13.0	-48.0	
	5235.00	-20.1	V	3.0	35.4	1.0	-54.5	-13.0	-41.5	
	6980.00	-19.0	V	3.0	35.7	1.0	-53.7	-13.0	-40.7	
	3490.00	-25.2	H	3.0	36.0	1.0	-60.2	-13.0	-47.2	
	5235.00	-19.0	H	3.0	35.4	1.0	-53.5	-13.0	-40.5	
	6980.00	-17.6	H	3.0	35.7	1.0	-52.3	-13.0	-39.3	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15U20030								
Date:		3/5/2015								
Test Engineer:		O. Stoelting								
Configuration:		x-pos EUT/AC Charger/ HS								
Location:		Chamber B								
Mode:		LTE_QPSK Band 4 Harmonics, 20MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1720									
	LTE4	3440.00	-26.0	V	3.0	36.0	1.0	-61.1	-13.0	-48.1
		5160.00	-20.0	V	3.0	35.4	1.0	-54.5	-13.0	-41.5
	20MHz	6880.00	-19.6	V	3.0	35.7	1.0	-54.3	-13.0	-41.3
		3440.00	-25.9	H	3.0	36.0	1.0	-60.9	-13.0	-47.9
		5160.00	-19.3	H	3.0	35.4	1.0	-53.7	-13.0	-40.7
	QPSK	6880.00	-18.0	H	3.0	35.7	1.0	-52.6	-13.0	-39.6
	Mid Ch, 1732.5									
		3465.00	-26.0	V	3.0	36.0	1.0	-61.0	-13.0	-48.0
		5197.50	-19.3	V	3.0	35.4	1.0	-53.8	-13.0	-40.8
		6930.00	-19.2	V	3.0	35.7	1.0	-53.8	-13.0	-40.8
		3465.00	-25.5	H	3.0	36.0	1.0	-60.6	-13.0	-47.6
		5197.50	-19.5	H	3.0	35.4	1.0	-54.0	-13.0	-41.0
		6930.00	-17.6	H	3.0	35.7	1.0	-52.3	-13.0	-39.3
	High Ch, 1745									
		3490.00	-25.9	V	3.0	36.0	1.0	-60.9	-13.0	-47.9
		5235.00	-20.1	V	3.0	35.4	1.0	-54.6	-13.0	-41.6
		6980.00	-19.2	V	3.0	35.7	1.0	-53.9	-13.0	-40.9
		3490.00	-25.1	H	3.0	36.0	1.0	-60.1	-13.0	-47.1
	5235.00	-19.3	H	3.0	35.4	1.0	-53.8	-13.0	-40.8	
	6980.00	-17.5	H	3.0	35.7	1.0	-52.2	-13.0	-39.2	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15U20030								
Date:		3/5/2015								
Test Engineer:		O. Stoelting								
Configuration:		x-pos EUT/AC Charger/ HS								
Location:		Chamber B								
Mode:		LTE_16QAM Band 4 Harmonics, 15MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4	Low Ch, 1717.5									
	3435.00	-26.1	V	3.0	36.1	1.0	-61.2	-13.0	-48.2	
15MHz	5152.50	-20.2	V	3.0	35.4	1.0	-54.6	-13.0	-41.6	
	6870.00	-19.5	V	3.0	35.7	1.0	-54.2	-13.0	-41.2	
16QAM	3435.00	-26.2	H	3.0	36.1	1.0	-61.2	-13.0	-48.2	
	5152.50	-19.2	H	3.0	35.4	1.0	-53.6	-13.0	-40.6	
	6870.00	-18.0	H	3.0	35.7	1.0	-52.7	-13.0	-39.7	
	Mid Ch, 1732.5									
	3465.00	-26.3	V	3.0	36.0	1.0	-61.3	-13.0	-48.3	
	5197.50	-20.0	V	3.0	35.4	1.0	-54.4	-13.0	-41.4	
	6930.00	-19.2	V	3.0	35.7	1.0	-53.9	-13.0	-40.9	
	3465.00	-25.8	H	3.0	36.0	1.0	-60.8	-13.0	-47.8	
	5197.50	-19.4	H	3.0	35.4	1.0	-53.8	-13.0	-40.8	
	6930.00	-17.6	H	3.0	35.7	1.0	-52.2	-13.0	-39.2	
	High Ch, 1747.5									
	3495.00	-26.0	V	3.0	36.0	1.0	-61.0	-13.0	-48.0	
	5242.50	-20.3	V	3.0	35.4	1.0	-54.7	-13.0	-41.7	
	6990.00	-19.1	V	3.0	35.7	1.0	-53.8	-13.0	-40.8	
	3495.00	-25.9	H	3.0	36.0	1.0	-60.9	-13.0	-47.9	
	5242.50	-18.6	H	3.0	35.4	1.0	-53.0	-13.0	-40.0	
	6990.00	-17.5	H	3.0	35.7	1.0	-52.2	-13.0	-39.2	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15U20030								
Date:		3/5/2015								
Test Engineer:		O. Stoelting								
Configuration:		x-pos EUT/AC Charger/ HS								
Location:		Chamber B								
Mode:		LTE_QPSK Band 4 Harmonics, 15MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preampl (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1717.5									
	LTE4	3435.00	-26.1	V	3.0	36.1	1.0	-61.2	-13.0	-48.2
		5152.50	-20.1	V	3.0	35.4	1.0	-54.5	-13.0	-41.5
	15MHz	6870.00	-19.4	V	3.0	35.7	1.0	-54.0	-13.0	-41.0
		3435.00	-26.3	H	3.0	36.1	1.0	-61.3	-13.0	-48.3
	QPSK	5152.50	-19.2	H	3.0	35.4	1.0	-53.7	-13.0	-40.7
		6870.00	-18.0	H	3.0	35.7	1.0	-52.6	-13.0	-39.6
	Mid Ch, 1732.5									
		3465.00	-26.3	V	3.0	36.0	1.0	-61.3	-13.0	-48.3
		5197.50	-20.2	V	3.0	35.4	1.0	-54.6	-13.0	-41.6
		6930.00	-19.3	V	3.0	35.7	1.0	-54.0	-13.0	-41.0
		3465.00	-25.9	H	3.0	36.0	1.0	-60.9	-13.0	-47.9
		5197.50	-19.5	H	3.0	35.4	1.0	-54.0	-13.0	-41.0
		6930.00	-17.4	H	3.0	35.7	1.0	-52.0	-13.0	-39.0
	High Ch, 1747.5									
		3495.00	-25.8	V	3.0	36.0	1.0	-60.8	-13.0	-47.8
		5242.50	-19.8	V	3.0	35.4	1.0	-54.3	-13.0	-41.3
		6990.00	-19.3	V	3.0	35.7	1.0	-54.0	-13.0	-41.0
		3495.00	-26.1	H	3.0	36.0	1.0	-61.1	-13.0	-48.1
		5242.50	-19.6	H	3.0	35.4	1.0	-54.0	-13.0	-41.0
	6990.00	-17.7	H	3.0	35.7	1.0	-52.3	-13.0	-39.3	

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

Configuration:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Sony

15U20030

3/5/2015

O. Stoelting

x-pos EUT/AC Charger/ HS

Chamber B

LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1715									
3430.00	-26.2	V	3.0	36.1	1.0	-61.2	-13.0	-48.2	
5145.00	-20.3	V	3.0	35.4	1.0	-54.7	-13.0	-41.7	
6860.00	-19.7	V	3.0	35.7	1.0	-54.4	-13.0	-41.4	
3430.00	-26.3	H	3.0	36.1	1.0	-61.4	-13.0	-48.4	
5145.00	-19.4	H	3.0	35.4	1.0	-53.8	-13.0	-40.8	
6860.00	-18.0	H	3.0	35.7	1.0	-52.7	-13.0	-39.7	
Mid Ch, 1732.5									
3465.00	-26.1	V	3.0	36.0	1.0	-61.1	-13.0	-48.1	
5197.50	-20.1	V	3.0	35.4	1.0	-54.5	-13.0	-41.5	
6930.00	-19.2	V	3.0	35.7	1.0	-53.8	-13.0	-40.8	
3465.00	-25.2	H	3.0	36.0	1.0	-60.2	-13.0	-47.2	
5197.50	-18.9	H	3.0	35.4	1.0	-53.3	-13.0	-40.3	
6930.00	-17.6	H	3.0	35.7	1.0	-52.2	-13.0	-39.2	
High Ch, 1750									
3500.00	-26.1	V	3.0	36.0	1.0	-61.1	-13.0	-48.1	
5250.00	-19.3	V	3.0	35.4	1.0	-53.8	-13.0	-40.8	
7000.00	-19.1	V	3.0	35.7	1.0	-53.8	-13.0	-40.8	
3500.00	-26.0	H	3.0	36.0	1.0	-61.1	-13.0	-48.1	
5250.00	-20.3	H	3.0	35.4	1.0	-54.7	-13.0	-41.7	
7000.00	-17.3	H	3.0	35.7	1.0	-52.0	-13.0	-39.0	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Configuration:		Sony								
Project #:		15U20030								
Date:		3/5/2015								
Test Engineer:		O. Stoelting								
Configuration:		x-pos EUT/AC Charger/ HS								
Location:		Chamber B								
Mode:		LTE_QPSK Band 4 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 10MHz QPSK	Low Ch, 1715									
	3430.00	-26.3	V	3.0	36.1	1.0	-61.3	-13.0	-48.3	
	5145.00	-20.2	V	3.0	35.4	1.0	-54.6	-13.0	-41.6	
	6860.00	-19.6	V	3.0	35.7	1.0	-54.3	-13.0	-41.3	
	3430.00	-26.3	H	3.0	36.1	1.0	-61.4	-13.0	-48.4	
	5145.00	-19.5	H	3.0	35.4	1.0	-54.0	-13.0	-41.0	
	6860.00	-17.9	H	3.0	35.7	1.0	-52.5	-13.0	-39.5	
	Mid Ch, 1732.5									
	3465.00	-26.0	V	3.0	36.0	1.0	-61.1	-13.0	-48.1	
	5197.50	-20.2	V	3.0	35.4	1.0	-54.6	-13.0	-41.6	
	6930.00	-19.3	V	3.0	35.7	1.0	-54.0	-13.0	-41.0	
	3465.00	-25.4	H	3.0	36.0	1.0	-60.4	-13.0	-47.4	
	5197.50	-19.3	H	3.0	35.4	1.0	-53.8	-13.0	-40.8	
	6930.00	-17.5	H	3.0	35.7	1.0	-52.2	-13.0	-39.2	
	High Ch, 1750									
	3500.00	-26.0	V	3.0	36.0	1.0	-61.0	-13.0	-48.0	
	5250.00	-20.0	V	3.0	35.4	1.0	-54.4	-13.0	-41.4	
	7000.00	-19.1	V	3.0	35.7	1.0	-53.8	-13.0	-40.8	
	3500.00	-26.0	H	3.0	36.0	1.0	-61.0	-13.0	-48.0	
	5250.00	-19.2	H	3.0	35.4	1.0	-53.6	-13.0	-40.6	
	7000.00	-17.4	H	3.0	35.7	1.0	-52.1	-13.0	-39.1	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15U20030								
Date:		3/5/2015								
Test Engineer:		O. Stoelting								
Configuration:		x-pos EUT/AC Charger/ HS								
Location:		Chamber B								
Mode:		LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preampl (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4	Low Ch, 1712.5									
	3425.00	-26.1	V	3.0	36.1	1.0	-61.2	-13.0	-48.2	
5MHz	5137.50	-20.0	V	3.0	35.4	1.0	-54.4	-13.0	-41.4	
	6850.00	-19.4	V	3.0	35.7	1.0	-54.1	-13.0	-41.1	
16QAM	3425.00	-25.7	H	3.0	36.1	1.0	-60.7	-13.0	-47.7	
	5137.50	-19.5	H	3.0	35.4	1.0	-53.9	-13.0	-40.9	
	6850.00	-17.9	H	3.0	35.7	1.0	-52.6	-13.0	-39.6	
	Mid Ch, 1732.5									
	3465.00	-26.2	V	3.0	36.0	1.0	-61.2	-13.0	-48.2	
	5197.50	-19.3	V	3.0	35.4	1.0	-53.7	-13.0	-40.7	
	6930.00	-19.0	V	3.0	35.7	1.0	-53.6	-13.0	-40.6	
	3465.00	-25.9	H	3.0	36.0	1.0	-60.9	-13.0	-47.9	
	5197.50	-19.1	H	3.0	35.4	1.0	-53.5	-13.0	-40.5	
	6930.00	-17.5	H	3.0	35.7	1.0	-52.2	-13.0	-39.2	
	High Ch, 1752.5									
	3505.00	-25.8	V	3.0	36.0	1.0	-60.8	-13.0	-47.8	
	5257.50	-20.1	V	3.0	35.4	1.0	-54.6	-13.0	-41.6	
	7010.00	-19.2	V	3.0	35.7	1.0	-53.9	-13.0	-40.9	
	3505.00	-26.0	H	3.0	36.0	1.0	-61.0	-13.0	-48.0	
	5257.50	-19.3	H	3.0	35.4	1.0	-53.7	-13.0	-40.7	
	7010.00	-17.5	H	3.0	35.7	1.0	-52.2	-13.0	-39.2	

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

Company: Sony

Project #: 15U20030

Date: 3/5/2015

Test Engineer: O. Stoelting

Configuration: x-pos EUT/AC Charger/ HS

Location: Chamber B

Mode: LTE_QPSK Band 4 Harmonics, 5MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4	Low Ch, 1712.5									
	3425.00	-26.2	V	3.0	36.1	1.0	-61.2	-13.0	-48.2	
	5137.50	-20.1	V	3.0	35.4	1.0	-54.6	-13.0	-41.6	
5MHz	6850.00	-19.5	V	3.0	35.7	1.0	-54.2	-13.0	-41.2	
	3425.00	-25.4	H	3.0	36.1	1.0	-60.5	-13.0	-47.5	
	5137.50	-19.4	H	3.0	35.4	1.0	-53.8	-13.0	-40.8	
QPSK	6850.00	-17.9	H	3.0	35.7	1.0	-52.5	-13.0	-39.5	
	Mid Ch, 1732.5									
	3465.00	-26.1	V	3.0	36.0	1.0	-61.1	-13.0	-48.1	
	5197.50	-19.9	V	3.0	35.4	1.0	-54.3	-13.0	-41.3	
	6930.00	-19.2	V	3.0	35.7	1.0	-53.8	-13.0	-40.8	
	3465.00	-26.0	H	3.0	36.0	1.0	-61.0	-13.0	-48.0	
	5197.50	-19.3	H	3.0	35.4	1.0	-53.7	-13.0	-40.7	
	6930.00	-17.5	H	3.0	35.7	1.0	-52.1	-13.0	-39.1	
	High Ch, 1752.5									
	3505.00	-25.7	V	3.0	36.0	1.0	-60.7	-13.0	-47.7	
	5257.50	-20.0	V	3.0	35.4	1.0	-54.4	-13.0	-41.4	
	7010.00	-19.0	V	3.0	35.7	1.0	-53.6	-13.0	-40.6	
	3505.00	-25.8	H	3.0	36.0	1.0	-60.8	-13.0	-47.8	
	5257.50	-19.3	H	3.0	35.4	1.0	-53.7	-13.0	-40.7	
	7010.00	-17.1	H	3.0	35.7	1.0	-51.8	-13.0	-38.8	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15U20030								
Date:		3/5/2015								
Test Engineer:		O. Stoelting								
Configuration:		x-pos EUT/AC Charger/ HS								
Location:		Chamber B								
Mode:		LTE_16QAM Band 4 Harmonics, 3MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1711.5									
	LTE4	3423.00	-26.4	V	3.0	36.1	1.0	-61.5	-13.0	-48.5
		5134.50	-20.1	V	3.0	35.4	1.0	-54.5	-13.0	-41.5
	3MHz	6846.00	-18.6	V	3.0	35.7	1.0	-53.2	-13.0	-40.2
		3423.00	-26.8	H	3.0	36.1	1.0	-61.9	-13.0	-48.9
	16QAM	5134.50	-19.7	H	3.0	35.4	1.0	-54.1	-13.0	-41.1
		6846.00	-17.9	H	3.0	35.7	1.0	-52.6	-13.0	-39.6
	Mid Ch, 1732.5									
		3465.00	-26.5	V	3.0	36.0	1.0	-61.5	-13.0	-48.5
		5197.50	-20.1	V	3.0	35.4	1.0	-54.5	-13.0	-41.5
		6930.00	-18.3	V	3.0	35.7	1.0	-53.0	-13.0	-40.0
		3465.00	-25.9	H	3.0	36.0	1.0	-60.9	-13.0	-47.9
		5197.50	-19.7	H	3.0	35.4	1.0	-54.1	-13.0	-41.1
		6930.00	-17.3	H	3.0	35.7	1.0	-52.0	-13.0	-39.0
	High Ch, 1753.5									
		3507.00	-26.0	V	3.0	36.0	1.0	-61.0	-13.0	-48.0
		5260.50	-20.1	V	3.0	35.4	1.0	-54.6	-13.0	-41.6
		7014.00	-18.2	V	3.0	35.7	1.0	-52.9	-13.0	-39.9
		3507.00	-26.5	H	3.0	36.0	1.0	-61.5	-13.0	-48.5
		5260.50	-20.1	H	3.0	35.4	1.0	-54.5	-13.0	-41.5
		7014.00	-17.1	H	3.0	35.7	1.0	-51.8	-13.0	-38.8

Compliance Certification Services Above 1GHz High Frequency Substitution Measurements										
Band LTE4 3MHz QPSK	Company:		Sony							
	Project #:		15U20030							
	Date:		3/5/2015							
	Test Engineer:		O. Stoelting							
	Configuration:		x-pos EUT/AC Charger/ HS							
	Location:		Chamber B							
	Mode:		LTE_QPSK Band 4 Harmonics, 3MHz Bandwidth							
	f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
	Low Ch, 1711.5									
	3423.00	-26.5	V	3.0	36.1	1.0	-61.6	-13.0	-48.6	
	5134.50	-20.0	V	3.0	35.4	1.0	-54.4	-13.0	-41.4	
	6846.00	-18.7	V	3.0	35.7	1.0	-53.4	-13.0	-40.4	
	3423.00	-26.7	H	3.0	36.1	1.0	-61.8	-13.0	-48.8	
	5134.50	-19.8	H	3.0	35.4	1.0	-54.2	-13.0	-41.2	
	6846.00	-18.0	H	3.0	35.7	1.0	-52.6	-13.0	-39.6	
	Mid Ch, 1732.5									
	3465.00	-26.1	V	3.0	36.0	1.0	-61.2	-13.0	-48.2	
	5197.50	-20.2	V	3.0	35.4	1.0	-54.7	-13.0	-41.7	
	6930.00	-18.4	V	3.0	35.7	1.0	-53.0	-13.0	-40.0	
	3465.00	-26.1	H	3.0	36.0	1.0	-61.1	-13.0	-48.1	
5197.50	-19.8	H	3.0	35.4	1.0	-54.2	-13.0	-41.2		
6930.00	-17.3	H	3.0	35.7	1.0	-52.0	-13.0	-39.0		
High Ch, 1753.5										
3507.00	-26.4	V	3.0	36.0	1.0	-61.4	-13.0	-48.4		
5260.50	-20.4	V	3.0	35.4	1.0	-54.8	-13.0	-41.8		
7014.00	-18.3	V	3.0	35.7	1.0	-53.0	-13.0	-40.0		
3507.00	-26.6	H	3.0	36.0	1.0	-61.6	-13.0	-48.6		
5260.50	-19.9	H	3.0	35.4	1.0	-54.3	-13.0	-41.3		
7014.00	-17.2	H	3.0	35.7	1.0	-51.9	-13.0	-38.9		

	Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
	Company:		Sony							
	Project #:		15U20030							
	Date:		3/5/2015							
	Test Engineer:		O. Stoelting							
	Configuration:		x-pos EUT/AC Charger/ HS							
	Location:		Chamber B							
	Mode:		LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth							
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preampl (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 1.4MHz 16QAM	Low Ch, 1710.7									
	3421.40	-26.5	V	3.0	36.1	1.0	-61.5	-13.0	-48.5	
	5132.10	-20.1	V	3.0	35.4	1.0	-54.5	-13.0	-41.5	
	6842.80	-18.8	V	3.0	35.7	1.0	-53.5	-13.0	-40.5	
	3421.40	-26.7	H	3.0	36.1	1.0	-61.8	-13.0	-48.8	
	5132.10	-19.8	H	3.0	35.4	1.0	-54.3	-13.0	-41.3	
	6842.80	-17.8	H	3.0	35.7	1.0	-52.4	-13.0	-39.4	
	Mid Ch, 1732.5									
	3465.00	-26.5	V	3.0	36.0	1.0	-61.5	-13.0	-48.5	
	5197.50	-19.6	V	3.0	35.4	1.0	-54.0	-13.0	-41.0	
	6930.00	-18.4	V	3.0	35.7	1.0	-53.0	-13.0	-40.0	
	3465.00	-26.0	H	3.0	36.0	1.0	-61.1	-13.0	-48.1	
	5197.50	-19.1	H	3.0	35.4	1.0	-53.5	-13.0	-40.5	
	6930.00	-17.4	H	3.0	35.7	1.0	-52.1	-13.0	-39.1	
	High Ch, 1754.3									
	3508.60	-26.2	V	3.0	36.0	1.0	-61.2	-13.0	-48.2	
	5262.90	-20.5	V	3.0	35.4	1.0	-54.9	-13.0	-41.9	
	7017.20	-18.2	V	3.0	35.7	1.0	-52.8	-13.0	-39.8	
	3508.60	-26.5	H	3.0	36.0	1.0	-61.5	-13.0	-48.5	
	5262.90	-19.6	H	3.0	35.4	1.0	-54.0	-13.0	-41.0	
	7017.20	-17.2	H	3.0	35.7	1.0	-51.9	-13.0	-38.9	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15U20030								
Date:		3/5/2015								
Test Engineer:		O. Stoelting								
Configuration:		x-pos EUT/AC Charger/ HS								
Location:		Chamber B								
Mode:		LTE_QPSK Band 4 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4	Low Ch, 1710.7									
	3421.40	-26.6	V	3.0	36.1	1.0	-61.7	-13.0	-48.7	
	5132.10	-20.2	V	3.0	35.4	1.0	-54.6	-13.0	-41.6	
1.4MHz	6842.80	-18.8	V	3.0	35.7	1.0	-53.5	-13.0	-40.5	
	3421.40	-26.5	H	3.0	36.1	1.0	-61.6	-13.0	-48.6	
QPSK	5132.10	-19.9	H	3.0	35.4	1.0	-54.3	-13.0	-41.3	
	6842.80	-18.0	H	3.0	35.7	1.0	-52.7	-13.0	-39.7	
Mid Ch, 1732.5										
	3465.00	-26.5	V	3.0	36.0	1.0	-61.5	-13.0	-48.5	
	5197.50	-19.0	V	3.0	35.4	1.0	-53.5	-13.0	-40.5	
	6930.00	-18.3	V	3.0	35.7	1.0	-53.0	-13.0	-40.0	
	3465.00	-25.7	H	3.0	36.0	1.0	-60.7	-13.0	-47.7	
	5197.50	-19.4	H	3.0	35.4	1.0	-53.8	-13.0	-40.8	
	6930.00	-17.3	H	3.0	35.7	1.0	-52.0	-13.0	-39.0	
High Ch, 1754.3										
	3508.60	-26.3	V	3.0	36.0	1.0	-61.3	-13.0	-48.3	
	5262.90	-20.4	V	3.0	35.4	1.0	-54.8	-13.0	-41.8	
	7017.20	-18.2	V	3.0	35.7	1.0	-52.8	-13.0	-39.8	
	3508.60	-26.7	H	3.0	36.0	1.0	-61.7	-13.0	-48.7	
	5262.90	-19.7	H	3.0	35.4	1.0	-54.2	-13.0	-41.2	
	7017.20	-17.1	H	3.0	35.7	1.0	-51.8	-13.0	-38.8	

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company: Sony
Project #: 15U20030
Date: 3/5/2015
Test Engineer: O. Stoelting
Configuration: x-pos EUT/AC Charger/ HS
Mode: LTE2_20M_16QAM

Chamber
 5m Chamber B

Pre-amplifier
 T343 8449B

Filter
 Filter 1

Limit
 Part 24

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2 20MHz 16QAM	Low Ch, 1860MHz									
	3.720	-22.1	V	3.0	35.4	1.0	-56.5	-13.0	-43.5	
	5.580	-19.8	V	3.0	34.7	1.0	-53.6	-13.0	-40.6	
	7.440	-19.1	V	3.0	34.9	1.0	-53.0	-13.0	-40.0	
	3.720	-21.8	H	3.0	35.4	1.0	-56.2	-13.0	-43.2	
	5.580	-18.8	H	3.0	34.7	1.0	-52.5	-13.0	-39.5	
	7.440	-17.4	H	3.0	34.9	1.0	-51.3	-13.0	-38.3	
	Mid Ch, 1880.0MHz									
	3.760	-22.0	V	3.0	35.3	1.0	-56.4	-13.0	-43.4	
	5.640	-18.5	V	3.0	34.7	1.0	-52.2	-13.0	-39.2	
	7.520	-19.3	V	3.0	34.9	1.0	-53.2	-13.0	-40.2	
	3.760	-21.8	H	3.0	35.3	1.0	-56.2	-13.0	-43.2	
	5.640	-18.9	H	3.0	34.7	1.0	-52.6	-13.0	-39.6	
	7.520	-17.5	H	3.0	34.9	1.0	-51.4	-13.0	-38.4	
	High Ch, 1900 MHz									
	3.800	-22.0	V	3.0	35.3	1.0	-56.3	-13.0	-43.3	
	5.700	-19.8	V	3.0	34.7	1.0	-53.5	-13.0	-40.5	
	7.600	-18.7	V	3.0	34.9	1.0	-52.7	-13.0	-39.7	
3.800	-21.4	H	3.0	35.3	1.0	-55.7	-13.0	-42.7		
5.700	-17.2	H	3.0	34.7	1.0	-50.9	-13.0	-37.9		
7.600	-17.0	H	3.0	34.9	1.0	-51.0	-13.0	-38.0		

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

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5.572	-20.0	V	3.0	34.7	1.0	-53.7	-13.0	-40.7																																																																																																																																																																																																																													
7.424	-19.3	V	3.0	34.9	1.0	-53.2	-13.0	-40.2																																																																																																																																																																																																																													
3.715	-21.9	H	3.0	35.4	1.0	-56.3	-13.0	-43.3																																																																																																																																																																																																																													
5.572	-18.6	H	3.0	34.7	1.0	-52.3	-13.0	-39.3																																																																																																																																																																																																																													
7.424	-17.2	H	3.0	34.9	1.0	-51.1	-13.0	-38.1																																																																																																																																																																																																																													
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3.760	-21.9	V	3.0	35.3	1.0	-56.3	-13.0	-43.3																																																																																																																																																																																																																													
5.640	-19.7	V	3.0	34.7	1.0	-53.5	-13.0	-40.5																																																																																																																																																																																																																													
7.520	-19.2	V	3.0	34.9	1.0	-53.1	-13.0	-40.1																																																																																																																																																																																																																													
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High Ch, 1902.5 MHz																																																																																																																																																																																																																																					
3.805	-21.9	V	3.0	35.3	1.0	-56.2	-13.0	-43.2																																																																																																																																																																																																																													
5.707	-19.6	V	3.0	34.7	1.0	-53.4	-13.0	-40.4																																																																																																																																																																																																																													
7.610	-18.9	V	3.0	34.9	1.0	-52.9	-13.0	-39.9																																																																																																																																																																																																																													
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Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																					

High Frequency Substitution Measurement UL Verification Services, Inc.										
Company:	Sony									
Project #:	15U20030									
Date:	3/5/2015									
Test Engineer:	O. Stoelting									
Configuration:	x-pos EUT/AC Charger/ HS									
Mode:	LTE2_15M_QPSK									
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber B		T343 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE2	Low Ch, 1857.5MHz									
15MHz	3.715	-22.0	V	3.0	35.4	1.0	-56.4	-13.0	-43.4	
QPSK	5.572	-19.8	V	3.0	34.7	1.0	-53.5	-13.0	-40.5	
	7.424	-19.1	V	3.0	34.9	1.0	-53.0	-13.0	-40.0	
	3.715	-21.8	H	3.0	35.4	1.0	-56.1	-13.0	-43.1	
	5.572	-18.7	H	3.0	34.7	1.0	-52.4	-13.0	-39.4	
	7.424	-17.3	H	3.0	34.9	1.0	-51.2	-13.0	-38.2	
	Mid Ch, 1880.0MHz									
	3.760	-22.0	V	3.0	35.3	1.0	-56.4	-13.0	-43.4	
	5.640	-19.9	V	3.0	34.7	1.0	-53.6	-13.0	-40.6	
	7.520	-19.2	V	3.0	34.9	1.0	-53.1	-13.0	-40.1	
	3.760	-21.6	H	3.0	35.3	1.0	-56.0	-13.0	-43.0	
	5.640	-19.0	H	3.0	34.7	1.0	-52.7	-13.0	-39.7	
	7.520	-17.6	H	3.0	34.9	1.0	-51.5	-13.0	-38.5	
	High Ch, 1902.5 MHz									
	3.805	-22.0	V	3.0	35.3	1.0	-56.2	-13.0	-43.2	
	5.707	-19.5	V	3.0	34.7	1.0	-53.2	-13.0	-40.2	
	7.610	-18.8	V	3.0	34.9	1.0	-52.7	-13.0	-39.7	
	3.805	-21.7	H	3.0	35.3	1.0	-56.0	-13.0	-43.0	
	5.707	-18.0	H	3.0	34.7	1.0	-51.8	-13.0	-38.8	
	7.610	-17.2	H	3.0	34.9	1.0	-51.1	-13.0	-38.1	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																																																																																																																																																							
Company: Sony Project #: 15U20030 Date: 3/5/2015 Test Engineer: O. Stoelting Configuration: x-pos EUT/AC Charger/ HS Mode: LTE2_10M_16QAM																																																																																																																																																																																																																																							
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Band LTE2 10MHz 16QAM	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">f GHz</th> <th style="width: 15%;">SG reading (dBm)</th> <th style="width: 10%;">Ant. Pol. (H/V)</th> <th style="width: 10%;">Distance (m)</th> <th style="width: 10%;">Preamp (dB)</th> <th style="width: 10%;">Filter (dB)</th> <th style="width: 10%;">EIRP (dBm)</th> <th style="width: 10%;">Limit (dBm)</th> <th style="width: 10%;">Delta (dB)</th> <th style="width: 15%;">Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10" style="background-color: #f1f8e9;">Low Ch, 1855.0MHz</td> </tr> <tr><td>3.710</td><td>-22.2</td><td>V</td><td>3.0</td><td>35.4</td><td>1.0</td><td>-56.6</td><td>-13.0</td><td>-43.6</td><td></td></tr> <tr><td>5.565</td><td>-20.0</td><td>V</td><td>3.0</td><td>34.7</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td>7.420</td><td>-19.1</td><td>V</td><td>3.0</td><td>34.9</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr> <tr><td>3.710</td><td>-21.7</td><td>H</td><td>3.0</td><td>35.4</td><td>1.0</td><td>-56.1</td><td>-13.0</td><td>-43.1</td><td></td></tr> <tr><td>5.565</td><td>-18.9</td><td>H</td><td>3.0</td><td>34.7</td><td>1.0</td><td>-52.6</td><td>-13.0</td><td>-39.6</td><td></td></tr> <tr><td>7.420</td><td>-17.4</td><td>H</td><td>3.0</td><td>34.9</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr> <tr> <td colspan="10" style="background-color: #f1f8e9;">Mid Ch, 1880.0MHz</td> </tr> <tr><td>3.760</td><td>-21.7</td><td>V</td><td>3.0</td><td>35.3</td><td>1.0</td><td>-56.1</td><td>-13.0</td><td>-43.1</td><td></td></tr> <tr><td>5.640</td><td>-19.8</td><td>V</td><td>3.0</td><td>34.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>7.520</td><td>-19.1</td><td>V</td><td>3.0</td><td>34.9</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr> <tr><td>3.760</td><td>-21.9</td><td>H</td><td>3.0</td><td>35.3</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr> <tr><td>5.640</td><td>-19.0</td><td>H</td><td>3.0</td><td>34.7</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr> <tr><td>7.520</td><td>-17.5</td><td>H</td><td>3.0</td><td>34.9</td><td>1.0</td><td>-51.4</td><td>-13.0</td><td>-38.4</td><td></td></tr> <tr> <td colspan="10" style="background-color: #f1f8e9;">High Ch, 1905 MHz</td> </tr> <tr><td>3.810</td><td>-21.9</td><td>V</td><td>3.0</td><td>35.3</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr> <tr><td>5.715</td><td>-19.8</td><td>V</td><td>3.0</td><td>34.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>7.620</td><td>-18.7</td><td>V</td><td>3.0</td><td>34.9</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr> <tr><td>3.810</td><td>-21.5</td><td>H</td><td>3.0</td><td>35.3</td><td>1.0</td><td>-55.8</td><td>-13.0</td><td>-42.8</td><td></td></tr> <tr><td>5.715</td><td>-18.2</td><td>H</td><td>3.0</td><td>34.7</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr> <tr><td>7.620</td><td>-17.1</td><td>H</td><td>3.0</td><td>34.9</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr> </tbody> </table>	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 1855.0MHz										3.710	-22.2	V	3.0	35.4	1.0	-56.6	-13.0	-43.6		5.565	-20.0	V	3.0	34.7	1.0	-53.7	-13.0	-40.7		7.420	-19.1	V	3.0	34.9	1.0	-53.0	-13.0	-40.0		3.710	-21.7	H	3.0	35.4	1.0	-56.1	-13.0	-43.1		5.565	-18.9	H	3.0	34.7	1.0	-52.6	-13.0	-39.6		7.420	-17.4	H	3.0	34.9	1.0	-51.3	-13.0	-38.3		Mid Ch, 1880.0MHz										3.760	-21.7	V	3.0	35.3	1.0	-56.1	-13.0	-43.1		5.640	-19.8	V	3.0	34.7	1.0	-53.6	-13.0	-40.6		7.520	-19.1	V	3.0	34.9	1.0	-53.0	-13.0	-40.0		3.760	-21.9	H	3.0	35.3	1.0	-56.2	-13.0	-43.2		5.640	-19.0	H	3.0	34.7	1.0	-52.7	-13.0	-39.7		7.520	-17.5	H	3.0	34.9	1.0	-51.4	-13.0	-38.4		High Ch, 1905 MHz										3.810	-21.9	V	3.0	35.3	1.0	-56.2	-13.0	-43.2		5.715	-19.8	V	3.0	34.7	1.0	-53.6	-13.0	-40.6		7.620	-18.7	V	3.0	34.9	1.0	-52.7	-13.0	-39.7		3.810	-21.5	H	3.0	35.3	1.0	-55.8	-13.0	-42.8		5.715	-18.2	H	3.0	34.7	1.0	-51.9	-13.0	-38.9		7.620	-17.1	H	3.0	34.9	1.0	-51.1	-13.0	-38.1											
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Company: Project #: Date: Test Engineer: Configuration: Mode:	Sony 15U20030 3/5/2015 O. Stoelting x-pos EUT/AC Charger/ HS LTE2_10M_QPSK																																																																																																																																																																																																																																				
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High Frequency Substitution Measurement UL Verification Services, Inc.										
Band LTE2 5MHz 16QAM	Company: Sony									
	Project #: 15U20030									
	Date: 3/5/2015									
	Test Engineer: O. Stoelting									
	Configuration: x-pos EUT/AC Charger/ HS									
	Mode: LTE2_5M_16QAM									
	Chamber 5m Chamber B		Pre-amplifier T343 8449B		Filter Filter 1		Limit Part 24			
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	Low Ch, 1852.5MHz									
	3.705	-22.2	V	3.0	35.4	1.0	-56.6	-13.0	-43.6	
5.557	-19.9	V	3.0	34.7	1.0	-53.6	-13.0	-40.6		
7.410	-19.0	V	3.0	34.9	1.0	-52.9	-13.0	-39.9		
3.705	-22.0	H	3.0	35.4	1.0	-56.4	-13.0	-43.4		
5.557	-18.9	H	3.0	34.7	1.0	-52.6	-13.0	-39.6		
7.410	-17.2	H	3.0	34.9	1.0	-51.1	-13.0	-38.1		
Mid Ch, 1880.0MHz										
3.760	-22.2	V	3.0	35.3	1.0	-56.5	-13.0	-43.5		
5.640	-19.9	V	3.0	34.7	1.0	-53.6	-13.0	-40.6		
7.520	-19.2	V	3.0	34.9	1.0	-53.1	-13.0	-40.1		
3.760	-21.9	H	3.0	35.3	1.0	-56.2	-13.0	-43.2		
5.640	-19.0	H	3.0	34.7	1.0	-52.7	-13.0	-39.7		
7.520	-17.2	H	3.0	34.9	1.0	-51.1	-13.0	-38.1		
High Ch, 1907.5 MHz										
3.815	-22.0	V	3.0	35.3	1.0	-56.3	-13.0	-43.3		
5.722	-20.1	V	3.0	34.7	1.0	-53.8	-13.0	-40.8		
7.630	-18.8	V	3.0	34.9	1.0	-52.7	-13.0	-39.7		
3.815	-21.5	H	3.0	35.3	1.0	-55.8	-13.0	-42.8		
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5.557	-19.2	H	3.0	34.7	1.0	-52.9	-13.0	-39.9																																																																																																																																																																																																																													
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7.520	-19.3	V	3.0	34.9	1.0	-53.2	-13.0	-40.2																																																																																																																																																																																																																													
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3.815	-22.0	V	3.0	35.3	1.0	-56.2	-13.0	-43.2																																																																																																																																																																																																																													
5.722	-18.3	V	3.0	34.7	1.0	-52.1	-13.0	-39.1																																																																																																																																																																																																																													
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3.702	-22.3	V	3.0	35.4	1.0	-56.7	-13.0	-43.7																																																																																																																																																																																																																													
5.553	-20.0	V	3.0	34.7	1.0	-53.7	-13.0	-40.7																																																																																																																																																																																																																													
7.404	-18.8	V	3.0	34.9	1.0	-52.7	-13.0	-39.7																																																																																																																																																																																																																													
3.702	-22.1	H	3.0	35.4	1.0	-56.5	-13.0	-43.5																																																																																																																																																																																																																													
5.553	-19.0	H	3.0	34.7	1.0	-52.8	-13.0	-39.8																																																																																																																																																																																																																													
7.404	-17.5	H	3.0	34.9	1.0	-51.5	-13.0	-38.5																																																																																																																																																																																																																													
Mid Ch, 1880.0MHz																																																																																																																																																																																																																																					
3.760	-22.1	V	3.0	35.3	1.0	-56.4	-13.0	-43.4																																																																																																																																																																																																																													
5.640	-20.0	V	3.0	34.7	1.0	-53.7	-13.0	-40.7																																																																																																																																																																																																																													
7.520	-19.2	V	3.0	34.9	1.0	-53.1	-13.0	-40.1																																																																																																																																																																																																																													
3.760	-21.9	H	3.0	35.3	1.0	-56.2	-13.0	-43.2																																																																																																																																																																																																																													
5.640	-19.0	H	3.0	34.7	1.0	-52.8	-13.0	-39.8																																																																																																																																																																																																																													
7.520	-17.6	H	3.0	34.9	1.0	-51.6	-13.0	-38.6																																																																																																																																																																																																																													
High Ch, 1909.3 MHz																																																																																																																																																																																																																																					
3.816	-22.1	V	3.0	35.3	1.0	-56.3	-13.0	-43.3																																																																																																																																																																																																																													
5.724	-19.8	V	3.0	34.7	1.0	-53.5	-13.0	-40.5																																																																																																																																																																																																																													
7.632	-18.8	V	3.0	34.9	1.0	-52.7	-13.0	-39.7																																																																																																																																																																																																																													
3.816	-21.7	H	3.0	35.3	1.0	-56.0	-13.0	-43.0																																																																																																																																																																																																																													
5.724	-16.3	H	3.0	34.7	1.0	-50.0	-13.0	-37.0																																																																																																																																																																																																																													
7.632	-16.8	H	3.0	34.9	1.0	-50.8	-13.0	-37.8																																																																																																																																																																																																																													
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																					

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UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
	Company:	Sony								
	Project #:	15U20030								
	Date:	03/04/15								
	Test Engineer:	O. Stoelting								
	Configuration:	EUT/AC Charger/HS								
	Mode:	HSDPA_B2								
Chamber Pre-amplifier Filter Limit 5m Chamber A T34 8449B Filter 1 Part 24										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 2	Low Ch, 1852.4MHz									
	3.705	-18.0	V	3.0	35.4	1.0	-52.4	-13.0	-39.4	
	5.557	-15.9	V	3.0	34.7	1.0	-49.7	-13.0	-36.7	
	7.410	-15.2	V	3.0	34.9	1.0	-49.1	-13.0	-36.1	
HSDPA	3.705	-18.1	H	3.0	35.4	1.0	-52.5	-13.0	-39.5	
	5.557	-15.5	H	3.0	34.7	1.0	-49.3	-13.0	-36.3	
	7.410	-13.1	H	3.0	34.9	1.0	-47.0	-13.0	-34.0	
	Mid Ch, 1880MHz									
	3.760	-17.5	V	3.0	35.3	1.0	-51.8	-13.0	-38.8	
	5.640	-16.4	V	3.0	34.7	1.0	-50.1	-13.0	-37.1	
	7.520	-14.2	V	3.0	34.9	1.0	-48.1	-13.0	-35.1	
	3.760	-17.0	H	3.0	35.3	1.0	-51.3	-13.0	-38.3	
	5.640	-15.2	H	3.0	34.7	1.0	-48.9	-13.0	-35.9	
	7.520	-12.6	H	3.0	34.9	1.0	-46.5	-13.0	-33.5	
	High Ch, 1907.6MHz									
	3.815	-16.6	V	3.0	35.3	1.0	-50.9	-13.0	-37.9	
	5.723	-15.5	V	3.0	34.7	1.0	-49.2	-13.0	-36.2	
	7.630	-13.8	V	3.0	34.9	1.0	-47.7	-13.0	-34.7	
	3.815	-18.0	H	3.0	35.3	1.0	-52.3	-13.0	-39.3	
	5.723	-15.0	H	3.0	34.7	1.0	-48.7	-13.0	-35.7	
	7.630	-12.6	H	3.0	34.9	1.0	-46.5	-13.0	-33.5	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Sony							
Project #:		15U20030							
Date:		3/5/2015							
Test Engineer:		O. Stoelting							
Configuration:		x-pos EUT/AC Charger/ HS							
Mode:		REL99_B2							
Chamber		Pre-amplifier		Filter		Limit			
5m Chamber B		T34 8449B		Filter 1		Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.4MHz									
3.705	-22.4	V	3.0	35.4	1.0	-56.8	-13.0	-43.8	
5.557	-20.1	V	3.0	34.7	1.0	-53.8	-13.0	-40.8	
7.410	-18.4	V	3.0	34.9	1.0	-52.4	-13.0	-39.4	
3.705	-22.5	H	3.0	35.4	1.0	-56.9	-13.0	-43.9	
5.557	-19.6	H	3.0	34.7	1.0	-53.3	-13.0	-40.3	
7.410	-17.5	H	3.0	34.9	1.0	-51.4	-13.0	-38.4	
Mid Ch, 1880MHz									
3.760	-22.2	V	3.0	35.3	1.0	-56.5	-13.0	-43.5	
5.640	-20.0	V	3.0	34.7	1.0	-53.7	-13.0	-40.7	
7.520	-18.6	V	3.0	34.9	1.0	-52.5	-13.0	-39.5	
3.760	-22.5	H	3.0	35.3	1.0	-56.8	-13.0	-43.8	
5.640	-19.3	H	3.0	34.7	1.0	-53.0	-13.0	-40.0	
7.520	-17.3	H	3.0	34.9	1.0	-51.2	-13.0	-38.2	
High Ch, 1907.6MHz									
3.815	-22.0	V	3.0	35.3	1.0	-56.3	-13.0	-43.3	
5.723	-19.8	V	3.0	34.7	1.0	-53.5	-13.0	-40.5	
7.630	-18.2	V	3.0	34.9	1.0	-52.1	-13.0	-39.1	
3.815	-22.4	H	3.0	35.3	1.0	-56.6	-13.0	-43.6	
5.723	-19.2	H	3.0	34.7	1.0	-52.9	-13.0	-39.9	
7.630	-17.0	H	3.0	34.9	1.0	-50.9	-13.0	-37.9	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:	Sony									
Project #:	15U20030									
Date:	03/06/15									
Test Engineer:	Jude Semana									
Configuration:	EUT + Charger									
Mode:	HSDPA_B5									
Chamber 3m Chamber Pre-amplifier T34 8449B Filter Filter 1 Limit Part 22										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band 5 HSDPA	Low Ch, 826.4MHz									
	1.653	-23.7	V	3.0	37.4	1.0	-60.1	-13.0	-47.1	
	2.479	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
	3.306	-19.1	V	3.0	35.8	1.0	-53.8	-13.0	-40.8	
	1.653	-23.4	H	3.0	37.4	1.0	-59.8	-13.0	-46.8	
	2.479	-20.8	H	3.0	36.4	1.0	-56.2	-13.0	-43.2	
	3.306	-19.4	H	3.0	35.8	1.0	-54.2	-13.0	-41.2	
	Mid Ch, 836.6MHz									
	1.673	-23.8	V	3.0	37.3	1.0	-60.2	-13.0	-47.2	
	2.510	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
	3.346	-18.0	V	3.0	35.8	1.0	-52.8	-13.0	-39.8	
	1.673	-23.9	H	3.0	37.3	1.0	-60.3	-13.0	-47.3	
	2.510	-20.1	H	3.0	36.4	1.0	-55.5	-13.0	-42.5	
	3.346	-18.2	H	3.0	35.8	1.0	-53.0	-13.0	-40.0	
	High Ch, 846.6MHz									
	1.693	-22.6	V	3.0	37.3	1.0	-59.0	-13.0	-46.0	
	2.540	-19.8	V	3.0	36.3	1.0	-55.2	-13.0	-42.2	
	3.386	-18.6	V	3.0	35.7	1.0	-53.4	-13.0	-40.4	
	1.693	-23.1	H	3.0	37.3	1.0	-59.4	-13.0	-46.4	
	2.540	-20.5	H	3.0	36.3	1.0	-55.8	-13.0	-42.8	
	3.386	-18.5	H	3.0	35.7	1.0	-53.2	-13.0	-40.2	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		Sony 15U20030 03/06/15 Jude Semana EUT + Charger REL99_B5								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T348449B	Filter 1	Part 22					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 826.4MHz									
Band 5	1.653	-23.6	V	3.0	37.4	1.0	-60.0	-13.0	-47.0	
	2.479	-18.7	V	3.0	36.4	1.0	-54.1	-13.0	-41.1	
REL99	3.306	-19.1	V	3.0	35.8	1.0	-53.9	-13.0	-40.9	
	1.653	-24.6	H	3.0	37.4	1.0	-60.9	-13.0	-47.9	
	2.479	-20.3	H	3.0	36.4	1.0	-55.7	-13.0	-42.7	
	3.306	-19.4	H	3.0	35.8	1.0	-54.2	-13.0	-41.2	
	Mid Ch, 836.6MHz									
	1.673	-23.8	V	3.0	37.3	1.0	-60.1	-13.0	-47.1	
	2.510	-18.7	V	3.0	36.4	1.0	-54.1	-13.0	-41.1	
	3.346	-17.7	V	3.0	35.8	1.0	-52.4	-13.0	-39.4	
	1.673	-23.6	H	3.0	37.3	1.0	-60.0	-13.0	-47.0	
	2.510	-20.1	H	3.0	36.4	1.0	-55.5	-13.0	-42.5	
	3.346	-19.0	H	3.0	35.8	1.0	-53.8	-13.0	-40.8	
	High Ch, 846.6MHz									
	1.693	-23.1	V	3.0	37.3	1.0	-59.4	-13.0	-46.4	
	2.540	-18.9	V	3.0	36.3	1.0	-54.2	-13.0	-41.2	
	3.386	-18.1	V	3.0	35.7	1.0	-52.8	-13.0	-39.8	
	1.693	-22.9	H	3.0	37.3	1.0	-59.2	-13.0	-46.2	
	2.540	-21.2	H	3.0	36.3	1.0	-56.5	-13.0	-43.5	
	3.386	-18.9	H	3.0	35.7	1.0	-53.6	-13.0	-40.6	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15U20030								
Date:		3/5/2015								
Test Engineer:		O. Stoelting								
Configuration:		x-pos EUT/AC Charger/ HS								
Mode:		EGPRS1900								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber B		T34 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
GSM 1900	Low Ch, 1850.2MHz									
	3.700	-22.5	V	3.0	35.4	1.0	-56.9	-13.0	-43.9	
	5.551	-20.1	V	3.0	34.7	1.0	-53.8	-13.0	-40.8	
EGPRS	7.401	-18.4	V	3.0	34.9	1.0	-52.3	-13.0	-39.3	
	3.700	-22.2	H	3.0	35.4	1.0	-56.6	-13.0	-43.6	
	5.551	-17.8	H	3.0	34.7	1.0	-51.5	-13.0	-38.5	
	7.401	-16.1	H	3.0	34.9	1.0	-50.1	-13.0	-37.1	
	Mid Ch, 1880.0MHz									
	3.760	-22.1	V	3.0	35.3	1.0	-56.4	-13.0	-43.4	
	5.640	-20.1	V	3.0	34.7	1.0	-53.8	-13.0	-40.8	
	7.520	-18.2	V	3.0	34.9	1.0	-52.2	-13.0	-39.2	
	3.760	-22.6	H	3.0	35.3	1.0	-56.9	-13.0	-43.9	
	5.640	-19.5	H	3.0	34.7	1.0	-53.2	-13.0	-40.2	
	7.520	-17.5	H	3.0	34.9	1.0	-51.4	-13.0	-38.4	
	High Ch, 1909.8MHz									
	3.820	-22.0	V	3.0	35.3	1.0	-56.2	-13.0	-43.2	
	5.729	-20.0	V	3.0	34.7	1.0	-53.7	-13.0	-40.7	
	7.639	-17.9	V	3.0	35.0	1.0	-51.8	-13.0	-38.8	
	3.820	-22.2	H	3.0	35.3	1.0	-56.5	-13.0	-43.5	
	5.729	-19.5	H	3.0	34.7	1.0	-53.2	-13.0	-40.2	
	7.639	-17.0	H	3.0	35.0	1.0	-51.0	-13.0	-38.0	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:	Sony									
Project #:	15U20030									
Date:	3/5/2015									
Test Engineer:	O. Stoelting									
Configuration:	x-pos EUT/AC Charger/ HS									
Mode:	GPRS1900									
Chamber 5m Chamber B Pre-amplifier T34 8449B Filter Filter1 Limit Part 24										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
GSM 1900	Low Ch, 1850.2MHz									
	3.700	-22.6	V	3.0	35.4	1.0	-57.0	-13.0	-44.0	
	5.551	-19.9	V	3.0	34.7	1.0	-53.6	-13.0	-40.6	
GPRS	7.401	-18.4	V	3.0	34.9	1.0	-52.3	-13.0	-39.3	
	3.700	-22.7	H	3.0	35.4	1.0	-57.1	-13.0	-44.1	
	5.551	-19.1	H	3.0	34.7	1.0	-52.8	-13.0	-39.8	
	7.401	-17.6	H	3.0	34.9	1.0	-51.5	-13.0	-38.5	
	Mid Ch, 1880.0MHz									
	3.760	-22.4	V	3.0	35.3	1.0	-56.8	-13.0	-43.8	
	5.640	-19.8	V	3.0	34.7	1.0	-53.5	-13.0	-40.5	
	7.520	-18.5	V	3.0	34.9	1.0	-52.5	-13.0	-39.5	
	3.760	-22.5	H	3.0	35.3	1.0	-56.8	-13.0	-43.8	
	5.640	-17.9	H	3.0	34.7	1.0	-51.6	-13.0	-38.6	
	7.520	-17.5	H	3.0	34.9	1.0	-51.4	-13.0	-38.4	
	High Ch, 1909.8MHz									
	3.820	-22.0	V	3.0	35.3	1.0	-56.3	-13.0	-43.3	
	5.729	-9.6	V	3.0	34.7	1.0	-43.3	-13.0	-30.3	
	7.639	-18.0	V	3.0	35.0	1.0	-51.9	-13.0	-38.9	
	3.820	-22.4	H	3.0	35.3	1.0	-56.7	-13.0	-43.7	
5.729	-10.8	H	3.0	34.7	1.0	-44.5	-13.0	-31.5		
7.639	-17.1	H	3.0	35.0	1.0	-51.1	-13.0	-38.1		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:	Sony									
Project #:	15U20030									
Date:	03/06/15									
Test Engineer:	Jude Semana									
Configuration:	EUT + Charger									
Mode:	EGPRS850 Harm									
Chamber Pre-amplifier Filter Limit 3m Chamber T34 8449B Filter 1 Part 22										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Noi
GSM 850 EGPRS	Low Ch, 824.2MHz									
	1.648	-25.5	V	3.0	37.4	1.0	-61.9	-13.0	-48.9	
	2.473	-20.0	V	3.0	36.4	1.0	-55.4	-13.0	-42.4	
	3.297	-20.9	V	3.0	35.8	1.0	-55.7	-13.0	-42.7	
	1.648	-26.2	H	3.0	37.4	1.0	-62.6	-13.0	-49.6	
	2.473	-21.4	H	3.0	36.4	1.0	-56.8	-13.0	-43.8	
	3.297	-20.8	H	3.0	35.8	1.0	-55.6	-13.0	-42.6	
	Mid Ch, 836.6MHz									
	1.673	-25.4	V	3.0	37.3	1.0	-61.7	-13.0	-48.7	
	2.510	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	3.346	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5	
	1.673	-25.2	H	3.0	37.3	1.0	-61.6	-13.0	-48.6	
	2.510	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	3.346	-21.5	H	3.0	35.8	1.0	-56.2	-13.0	-43.2	
	High Ch, 848.8MHz									
	1.698	-24.8	V	3.0	37.3	1.0	-61.1	-13.0	-48.1	
	2.547	-21.6	V	3.0	36.3	1.0	-56.9	-13.0	-43.9	
	3.395	-20.2	V	3.0	35.7	1.0	-54.9	-13.0	-41.9	
1.698	-25.0	H	3.0	37.3	1.0	-61.3	-13.0	-48.3		
2.547	-22.9	H	3.0	36.3	1.0	-58.3	-13.0	-45.3		
3.395	-20.2	H	3.0	35.7	1.0	-54.9	-13.0	-41.9		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:	Sony									
Project #:	15U20030									
Date:	03/06/15									
Test Engineer:	Jude Semana									
Configuration:	EUT + Charger									
Mode:	GPRS 850 HARM									
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		Part 22				
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band GSM 850 GPRS	Low Ch, 824.2MHz									
	1.648	-25.8	V	3.0	37.4	1.0	-62.2	-13.0	-49.2	
	2.473	-19.5	V	3.0	36.4	1.0	-54.9	-13.0	-41.9	
	3.297	-20.3	V	3.0	35.8	1.0	-55.1	-13.0	-42.1	
	1.648	-25.9	H	3.0	37.4	1.0	-62.3	-13.0	-49.3	
	2.473	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	3.297	-20.6	H	3.0	35.8	1.0	-55.4	-13.0	-42.4	
	Mid Ch, 836.6MHz									
	1.673	-25.8	V	3.0	37.3	1.0	-62.2	-13.0	-49.2	
	2.510	-21.1	V	3.0	36.4	1.0	-56.4	-13.0	-43.4	
3.346	-20.2	V	3.0	35.8	1.0	-55.0	-13.0	-42.0		
1.673	-25.5	H	3.0	37.3	1.0	-61.9	-13.0	-48.9		
2.510	-22.8	H	3.0	36.4	1.0	-58.1	-13.0	-45.1		
3.346	-21.3	H	3.0	35.8	1.0	-56.1	-13.0	-43.1		
High Ch, 848.8MHz										
1.698	-25.0	V	3.0	37.3	1.0	-61.3	-13.0	-48.3		
2.547	-20.7	V	3.0	36.3	1.0	-56.0	-13.0	-43.0		
3.395	-20.3	V	3.0	35.7	1.0	-55.1	-13.0	-42.1		
1.698	-24.2	H	3.0	37.3	1.0	-60.5	-13.0	-47.5		
2.547	-22.5	H	3.0	36.3	1.0	-57.8	-13.0	-44.8		
3.395	-20.5	H	3.0	35.7	1.0	-55.2	-13.0	-42.2		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										