

Band

LTE4

3MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber C

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Sony

14U17929

07/02/14

O. Stoelting

EUT only, X position

LTE_B4_3MHz_16QAM

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1711.50	11.65	V	0.85	7.9	18.70	30.0	-11.3	
1711.50	15.15	H	0.85	7.9	22.20	30.0	-7.8	
Mid Ch								
1732.50	9.50	V	0.85	7.9	16.55	30.0	-13.5	
1732.50	14.99	H	0.85	7.9	22.04	30.0	-8.0	
High Ch								
1753.50	8.89	V	0.85	7.9	15.94	30.0	-14.1	
1753.50	15.82	H	0.85	7.9	22.87	30.0	-7.1	

Rev. 3.17.11

Note: For Band 4 EIRP limit is 30dBm

Band

LTE2

3MHz

16QAM

High Frequency Fundamental Measurement

Compliance Certification Services Chamber A

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Sony

14U17929

07/01/14

O. Stoelting

X Position, EUT only

LTE Band_2_3MHz_16QAM

Test Equipment:

Receiving: Horn T136, and Chamber A SMA Cables

Substitution: Horn T72 Substitution, 5ft (SN: 16795) SMA Cable Warehouse

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1.852	11.5	V	0.85	7.92	18.52	33.0	-14.5	
1.852	15.5	H	0.85	7.92	22.59	33.0	-10.4	
Mid Ch								
1.880	12.4	V	0.85	7.92	19.48	33.0	-13.5	
1.880	16.3	H	0.85	7.92	23.38	33.0	-9.6	
High Ch								
1.909	12.6	V	0.85	7.85	19.65	33.0	-13.4	
1.909	15.7	H	0.85	7.85	22.66	33.0	-10.3	

Rev. 3.17.11

Band LTE2 3MHz QPSK								
	High Frequency Fundamental Measurement Compliance Certification Services Chamber A							
	Company: Sony Project #: 14U17929 Date: 07/01/14 Test Engineer: O. Stoelting Configuration: X Position, EUT only Mode: LTE Band_2_3MHz_QPSK							
	Test Equipment: Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T72 Substitution, 5ft (SN: 16795) SMA Cable Warehouse							
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)
	Low Ch							
	1.852	12.3	V	0.85	7.92	19.39	33.0	-13.6
	1.852	16.8	H	0.85	7.92	23.83	33.0	-9.2
	Mid Ch							
	1.880	13.2	V	0.85	7.92	20.28	33.0	-12.7
	1.880	17.5	H	0.85	7.92	24.53	33.0	-8.5
	High Ch							
	1.909	13.3	V	0.85	7.85	20.28	33.0	-12.7
	1.909	16.9	H	0.85	7.85	23.93	33.0	-9.1
Rev. 3.17.11								

Band LTE2 1.4MHz 16QAM								
	High Frequency Fundamental Measurement Compliance Certification Services Chamber A							
	Company: Sony Project #: 14U17929 Date: 07/01/14 Test Engineer: O. Stoelting Configuration: X Position, EUT only Mode: LTE Band 2_1.4MHz_16QAM							
	Test Equipment: Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T72 Substitution, 5ft (SN: 16795) SMA Cable Warehouse							
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta
	GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
	Notes							
	Low Ch							
	1.851	12.4	V	0.85	7.92	19.47	33.0	-13.5
	1.851	16.0	H	0.85	7.92	23.05	33.0	-10.0
	Mid Ch							
	1.880	13.1	V	0.85	7.92	20.13	33.0	-12.9
	1.880	15.4	H	0.85	7.92	22.51	33.0	-10.5
	High Ch							
	1.909	13.2	V	0.85	7.85	20.24	33.0	-12.8
	1.909	16.7	H	0.85	7.85	23.65	33.0	-9.4
Rev. 3.17.11								

Band LTE2 1.4MHz QPSK	High Frequency Fundamental Measurement Compliance Certification Services Chamber A Company: Sony Project #: 14U17929 Date: 07/01/14 Test Engineer: O. Stoelting Configuration: X Position, EUT only Mode: LTE Band 2_1.4MHz_QPSK Test Equipment: Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T72 Substitution, 5ft (SN: 16795) SMA Cable Warehouse <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Low Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.851</td> <td>13.0</td> <td>V</td> <td>0.85</td> <td>7.92</td> <td>20.06</td> <td>33.0</td> <td>-12.9</td> <td></td> </tr> <tr> <td>1.851</td> <td>17.2</td> <td>H</td> <td>0.85</td> <td>7.92</td> <td>24.22</td> <td>33.0</td> <td>-8.8</td> <td></td> </tr> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.880</td> <td>14.4</td> <td>V</td> <td>0.85</td> <td>7.92</td> <td>21.43</td> <td>33.0</td> <td>-11.6</td> <td></td> </tr> <tr> <td>1.880</td> <td>16.1</td> <td>H</td> <td>0.85</td> <td>7.92</td> <td>23.15</td> <td>33.0</td> <td>-9.9</td> <td></td> </tr> <tr> <td>High Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.909</td> <td>14.0</td> <td>V</td> <td>0.85</td> <td>7.85</td> <td>21.00</td> <td>33.0</td> <td>-12.0</td> <td></td> </tr> <tr> <td>1.909</td> <td>17.2</td> <td>H</td> <td>0.85</td> <td>7.85</td> <td>24.22</td> <td>33.0</td> <td>-8.8</td> <td></td> </tr> </tbody> </table> Rev. 3.17.11	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1.851	13.0	V	0.85	7.92	20.06	33.0	-12.9		1.851	17.2	H	0.85	7.92	24.22	33.0	-8.8		Mid Ch									1.880	14.4	V	0.85	7.92	21.43	33.0	-11.6		1.880	16.1	H	0.85	7.92	23.15	33.0	-9.9		High Ch									1.909	14.0	V	0.85	7.85	21.00	33.0	-12.0		1.909	17.2	H	0.85	7.85	24.22	33.0	-8.8	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																			
Low Ch																																																																																											
1.851	13.0	V	0.85	7.92	20.06	33.0	-12.9																																																																																				
1.851	17.2	H	0.85	7.92	24.22	33.0	-8.8																																																																																				
Mid Ch																																																																																											
1.880	14.4	V	0.85	7.92	21.43	33.0	-11.6																																																																																				
1.880	16.1	H	0.85	7.92	23.15	33.0	-9.9																																																																																				
High Ch																																																																																											
1.909	14.0	V	0.85	7.85	21.00	33.0	-12.0																																																																																				
1.909	17.2	H	0.85	7.85	24.22	33.0	-8.8																																																																																				

11.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, and §27

LIMIT

§22.917 (e) and §24.238 (a): Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB

TEST PROCEDURE

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

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

RESULTS

11.2.1. SPURIOUS RADIATION DATA

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:	Sony								
Project #:	14U17929								
Date:	07/03/14								
Test Engineer:	B. Liu, K. Ros								
Configuration:	X-pos EUT w/ AC Adaptor								
Mode:	HSDPA B2 HARM								
Chamber Pre-amplifier Filter Limit 3m Chamber 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	-5.8	V	3.0	35.4	1.0	-40.2	-13.0	-27.2	
5.557	-2.6	V	3.0	34.7	1.0	-36.3	-13.0	-23.3	
7.410	1.7	V	3.0	34.9	1.0	-32.2	-13.0	-19.2	
3.705	-6.7	H	3.0	35.4	1.0	-41.1	-13.0	-28.1	
5.557	-2.4	H	3.0	34.7	1.0	-36.2	-13.0	-23.2	
7.410	3.6	H	3.0	34.9	1.0	-30.3	-13.0	-17.3	
Mid Ch, 1880MHz									
3.760	-6.1	V	3.0	35.3	1.0	-40.5	-13.0	-27.5	
5.640	-2.4	V	3.0	34.7	1.0	-36.1	-13.0	-23.1	
7.520	2.1	V	3.0	34.9	1.0	-31.9	-13.0	-18.9	
3.760	-5.7	H	3.0	35.3	1.0	-40.1	-13.0	-27.1	
5.640	-2.3	H	3.0	34.7	1.0	-36.1	-13.0	-23.1	
7.520	3.4	H	3.0	34.9	1.0	-30.5	-13.0	-17.5	
High Ch, 1907.6MHz									
3.815	-5.8	V	3.0	35.3	1.0	-40.1	-13.0	-27.1	
5.723	-3.0	V	3.0	34.7	1.0	-36.7	-13.0	-23.7	
7.630	2.7	V	3.0	34.9	1.0	-31.3	-13.0	-18.3	
3.815	-5.4	H	3.0	35.3	1.0	-39.7	-13.0	-26.7	
5.723	-1.5	H	3.0	34.7	1.0	-35.2	-13.0	-22.2	
7.630	4.4	H	3.0	34.9	1.0	-29.6	-13.0	-16.6	
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 #:		14U17929								
Date:		07/02/14								
Test Engineer:		K. Huynh								
Configuration:		X-pos. EUT with AC charger								
Mode:		Tx, 1900MHz HSDPA								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T34 8449B		Filter 1		Part 24				
	f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
	GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
Band	Low Ch, 1852.4MHz									
	3.705	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
Band 2	5.557	-14.0	V	3.0	34.7	1.0	-47.8	-13.0	-34.8	
	7.409	-12.2	V	3.0	34.9	1.0	-46.1	-13.0	-33.1	
REL99	3.705	-19.2	H	3.0	35.4	1.0	-53.6	-13.0	-40.6	
	5.557	-14.5	H	3.0	34.7	1.0	-48.2	-13.0	-35.2	
	7.409	-12.2	H	3.0	34.9	1.0	-46.1	-13.0	-33.1	
	Mid Ch, 1880MHz									
	3.760	-17.6	V	3.0	35.3	1.0	-51.9	-13.0	-38.9	
	5.640	-15.3	V	3.0	34.7	1.0	-49.0	-13.0	-36.0	
	7.520	-13.3	V	3.0	34.9	1.0	-47.2	-13.0	-34.2	
	3.760	-17.5	H	3.0	35.3	1.0	-51.8	-13.0	-38.8	
	5.640	-14.9	H	3.0	34.7	1.0	-48.6	-13.0	-35.6	
	7.520	-12.1	H	3.0	34.9	1.0	-46.0	-13.0	-33.0	
	High Ch, 1907.6MHz									
	3.815	-17.0	V	3.0	35.3	1.0	-51.3	-13.0	-38.3	
	5.723	-14.6	V	3.0	34.7	1.0	-48.4	-13.0	-35.4	
	7.630	-13.3	V	3.0	34.9	1.0	-47.2	-13.0	-34.2	
	3.815	-17.2	H	3.0	35.3	1.0	-51.5	-13.0	-38.5	
	5.723	-14.0	H	3.0	34.7	1.0	-47.7	-13.0	-34.7	
	7.630	-11.9	H	3.0	34.9	1.0	-45.9	-13.0	-32.9	
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement											
Company:		Sony									
Project #:		14U17929									
Date:		07/08/14									
Test Engineer:											
Configuration:		X-pos. EUT with AC charger									
Mode:		Tx, HSDPA Band 4									
		Chamber		Pre-amplifier		Filter		Limit			
		5m Chamber A		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
Band		Low Ch, 1712.4MHz									
		3.425	-11.7	V	3.0	35.7	1.0	-46.4	-13.0	-33.4	
Band 4		5.137	-18.1	V	3.0	34.7	1.0	-51.8	-13.0	-38.8	
		6.850	-14.1	V	3.0	34.8	1.0	-47.9	-13.0	-34.9	
HSDPA		3.425	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
		5.137	-17.4	H	3.0	34.7	1.0	-51.1	-13.0	-38.1	
		6.850	-12.3	H	3.0	34.8	1.0	-46.1	-13.0	-33.1	
		Mid Ch, 1732.6MHz									
		3.465	-16.6	V	3.0	35.6	1.0	-51.3	-13.0	-38.3	
		5.198	-16.7	V	3.0	34.7	1.0	-50.4	-13.0	-37.4	
		6.930	-13.8	V	3.0	34.8	1.0	-47.6	-13.0	-34.6	
		3.465	-16.7	H	3.0	35.6	1.0	-51.4	-13.0	-38.4	
		5.198	-15.2	H	3.0	34.7	1.0	-48.9	-13.0	-35.9	
		6.930	-12.7	H	3.0	34.8	1.0	-46.6	-13.0	-33.6	
		High Ch, 1752.6MHz									
		3.505	-17.8	V	3.0	35.6	1.0	-52.4	-13.0	-39.4	
		5.258	-15.9	V	3.0	34.7	1.0	-49.6	-13.0	-36.6	
		7.010	-13.0	V	3.0	34.8	1.0	-46.8	-13.0	-33.8	
		3.505	-17.5	H	3.0	35.6	1.0	-52.1	-13.0	-39.1	
		5.258	-16.0	H	3.0	34.7	1.0	-49.7	-13.0	-36.7	
		7.010	-11.6	H	3.0	34.8	1.0	-45.5	-13.0	-32.5	
Rev. 03.03.09											

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement											
Company:		Sony									
Project #:		14U17929									
Date:		07/08/14									
Test Engineer:											
Configuration:		X-pos. EUT with AC charger									
Mode:		Tx, REL99 Band 4									
		Chamber		Pre-amplifier		Filter		Limit			
		5m Chamber A		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
Band		Low Ch, 1712.4MHz									
		3.425	-10.8	V	3.0	35.7	1.0	-45.5	-13.0	-32.5	
Band 4		5.137	-17.8	V	3.0	34.7	1.0	-51.5	-13.0	-38.5	
		6.850	-15.1	V	3.0	34.8	1.0	-48.9	-13.0	-35.9	
REL99		3.425	-10.5	H	3.0	35.7	1.0	-45.2	-13.0	-32.2	
		5.137	-17.2	H	3.0	34.7	1.0	-50.9	-13.0	-37.9	
		6.850	-12.7	H	3.0	34.8	1.0	-46.5	-13.0	-33.5	
		Mid Ch, 1732.6MHz									
		3.465	-16.9	V	3.0	35.6	1.0	-51.6	-13.0	-38.6	
		5.198	-16.8	V	3.0	34.7	1.0	-50.5	-13.0	-37.5	
		6.930	-13.6	V	3.0	34.8	1.0	-47.5	-13.0	-34.5	
		3.465	-14.8	H	3.0	35.6	1.0	-49.5	-13.0	-36.5	
		5.198	-15.5	H	3.0	34.7	1.0	-49.2	-13.0	-36.2	
		6.930	-11.5	H	3.0	34.8	1.0	-45.3	-13.0	-32.3	
		High Ch, 1752.6MHz									
		3.505	-18.6	V	3.0	35.6	1.0	-53.2	-13.0	-40.2	
		5.258	-12.9	V	3.0	34.7	1.0	-46.6	-13.0	-33.6	
		7.010	-13.0	V	3.0	34.8	1.0	-46.8	-13.0	-33.8	
		3.505	-17.0	H	3.0	35.6	1.0	-51.6	-13.0	-38.6	
		5.258	-15.8	H	3.0	34.7	1.0	-49.5	-13.0	-36.5	
		7.010	-10.8	H	3.0	34.8	1.0	-44.7	-13.0	-31.7	
Rev. 03.03.09											

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17929								
Date:		07/03/14								
Test Engineer:		B. Liu								
Configuration:		X-pos EUT w/ AC Adaptor								
Mode:		HSDPA B5 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
	Low Ch, 826.4MHz									
	1.653	-15.8	V	3.0	37.4	1.0	-52.1	-13.0	-39.1	
Band 5	2.479	-9.1	V	3.0	36.4	1.0	-44.5	-13.0	-31.5	
	3.306	-6.7	V	3.0	35.8	1.0	-41.5	-13.0	-28.5	
HSDPA	1.653	-14.8	H	3.0	37.4	1.0	-51.2	-13.0	-38.2	
	2.479	-11.5	H	3.0	36.4	1.0	-46.9	-13.0	-33.9	
	3.306	-6.1	H	3.0	35.8	1.0	-40.9	-13.0	-27.9	
	Mid Ch, 836.6MHz									
	1.673	-15.9	V	3.0	37.3	1.0	-52.2	-13.0	-39.2	
	2.510	-9.7	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
	3.346	-6.1	V	3.0	35.8	1.0	-40.9	-13.0	-27.9	
	1.673	-15.7	H	3.0	37.3	1.0	-52.0	-13.0	-39.0	
	2.510	-11.1	H	3.0	36.4	1.0	-46.5	-13.0	-33.5	
	3.346	-6.0	H	3.0	35.8	1.0	-40.8	-13.0	-27.8	
	High Ch, 846.6MHz									
	1.693	-15.3	V	3.0	37.3	1.0	-51.6	-13.0	-38.6	
	2.539	-9.6	V	3.0	36.3	1.0	-44.9	-13.0	-31.9	
	3.386	-6.3	V	3.0	35.7	1.0	-41.0	-13.0	-28.0	
	1.693	-15.5	H	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2.539	-11.3	H	3.0	36.3	1.0	-46.6	-13.0	-33.6	
	3.346	-5.7	H	3.0	35.8	1.0	-40.5	-13.0	-27.5	
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 #:		14U17929									
Date:		07/03/14									
Test Engineer:		: B.Liu									
Configuration:		X-pos EUT w/ AC Adaptor									
Mode:		REL99 B5 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		Low Ch, 826.4MHz									
		1.653	-15.8	V	3.0	37.4	1.0	-52.1	-13.0	-39.1	
Band 5		2.479	-9.8	V	3.0	36.4	1.0	-45.2	-13.0	-32.2	
		3.306	-6.5	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
REL99		1.653	-15.0	H	3.0	37.4	1.0	-51.4	-13.0	-38.4	
		2.479	-11.3	H	3.0	36.4	1.0	-46.7	-13.0	-33.7	
		3.306	-6.5	H	3.0	35.8	1.0	-41.3	-13.0	-28.3	
		Mid Ch, 836.6MHz									
		1.673	-16.0	V	3.0	37.3	1.0	-52.4	-13.0	-39.4	
		2.510	-9.7	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
		3.346	-6.6	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
		1.673	-14.9	H	3.0	37.3	1.0	-51.3	-13.0	-38.3	
		2.510	-11.3	H	3.0	36.4	1.0	-46.6	-13.0	-33.6	
		3.346	-6.1	H	3.0	35.8	1.0	-40.9	-13.0	-27.9	
		High Ch, 846.6MHz									
		1.693	-15.2	V	3.0	37.3	1.0	-51.5	-13.0	-38.5	
		2.539	-9.4	V	3.0	36.3	1.0	-44.8	-13.0	-31.8	
		3.386	-6.6	V	3.0	35.7	1.0	-41.3	-13.0	-28.3	
		1.693	-15.1	H	3.0	37.3	1.0	-51.4	-13.0	-38.4	
		2.539	-11.1	H	3.0	36.3	1.0	-46.5	-13.0	-33.5	
		3.346	-7.1	H	3.0	35.8	1.0	-41.9	-13.0	-28.9	
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 #:	14U17929									
Date:	07/02/14									
Test Engineer:	K. Huynh									
Configuration:	X-pos. EUT with AC charger									
Mode:	EGPRS 1900									
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		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
GSM19 00 EGPRS	Low Ch, 1850MHz									
	3.700	-16.2	V	3.0	35.4	1.0	-50.6	-13.0	-37.6	
	5.550	-6.9	V	3.0	34.7	1.0	-40.6	-13.0	-27.6	
	7.400	-10.7	V	3.0	34.9	1.0	-44.6	-13.0	-31.6	
	3.700	-16.6	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
	5.550	-2.0	H	3.0	34.7	1.0	-35.7	-13.0	-22.7	
	7.400	-9.4	H	3.0	34.9	1.0	-43.3	-13.0	-30.3	
	Mid Ch, 1880.0MHz									
	3.760	-14.8	V	3.0	35.3	1.0	-49.2	-13.0	-36.2	
	5.640	1.0	V	3.0	34.7	1.0	-32.7	-13.0	-19.7	
	7.520	-10.4	V	3.0	34.9	1.0	-44.4	-13.0	-31.4	
	3.760	-15.4	H	3.0	35.3	1.0	-49.7	-13.0	-36.7	
	5.640	-2.9	H	3.0	34.7	1.0	-36.6	-13.0	-23.6	
	7.520	-9.6	H	3.0	34.9	1.0	-43.5	-13.0	-30.5	
	High Ch, 1909.8 MHz									
3.820	-15.0	V	3.0	35.3	1.0	-49.3	-13.0	-36.3		
5.729	-12.5	V	3.0	34.7	1.0	-46.3	-13.0	-33.3		
7.639	-11.0	V	3.0	35.0	1.0	-45.0	-13.0	-32.0		
3.820	-14.4	H	3.0	35.3	1.0	-48.7	-13.0	-35.7		
5.729	-6.5	H	3.0	34.7	1.0	-40.3	-13.0	-27.3		
7.639	-9.9	H	3.0	35.0	1.0	-43.8	-13.0	-30.8		
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 #:		14U17929								
Date:		07/02/14								
Test Engineer:		K. Huynh								
Configuration:		X-pos. EUT with AC charger								
Mode:		GPRS 1900								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		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
GSM1900 GPRS	Low Ch, 1850MHz									
	3.700	-14.7	V	3.0	35.4	1.0	-49.1	-13.0	-36.1	
	5.550	-10.8	V	3.0	34.7	1.0	-44.5	-13.0	-31.5	
	7.400	-12.7	V	3.0	34.9	1.0	-46.6	-13.0	-33.6	
	3.700	-16.3	H	3.0	35.4	1.0	-50.7	-13.0	-37.7	
	5.550	-15.4	H	3.0	34.7	1.0	-49.1	-13.0	-36.1	
	7.400	-13.2	H	3.0	34.9	1.0	-47.1	-13.0	-34.1	
	Mid Ch, 1880.0MHz									
	3.760	-13.9	V	3.0	35.3	1.0	-48.2	-13.0	-35.2	
	5.640	-14.0	V	3.0	34.7	1.0	-47.8	-13.0	-34.8	
	7.520	-12.1	V	3.0	34.9	1.0	-46.0	-13.0	-33.0	
	3.760	-15.7	H	3.0	35.3	1.0	-50.1	-13.0	-37.1	
	5.640	-13.9	H	3.0	34.7	1.0	-47.7	-13.0	-34.7	
	7.520	-12.1	H	3.0	34.9	1.0	-46.0	-13.0	-33.0	
	High Ch, 1909.8 MHz									
3.820	-12.6	V	3.0	35.3	1.0	-46.9	-13.0	-33.9		
5.729	-13.0	V	3.0	34.7	1.0	-46.8	-13.0	-33.8		
7.639	-11.4	V	3.0	35.0	1.0	-45.4	-13.0	-32.4		
3.820	-15.8	H	3.0	35.3	1.0	-50.1	-13.0	-37.1		
5.729	-14.5	H	3.0	34.7	1.0	-48.3	-13.0	-35.3		
7.639	-11.5	H	3.0	35.0	1.0	-45.5	-13.0	-32.5		
Rev. 03.03.09										

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company:
Project #:
Date:
Test Engineer:
Configuration:
Mode:

Sony
14U17929
07/03/14
B. Liu
X-pos EUT w/ AC Adaptor
EGPRS 850

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, 824.2MHz									
1.648	-15.8	V	3.0	37.4	1.0	-52.2	-13.0	-39.2	
2.473	-9.2	V	3.0	36.4	1.0	-44.6	-13.0	-31.6	
3.297	-7.4	V	3.0	35.8	1.0	-42.2	-13.0	-29.2	
1.648	-16.5	H	3.0	37.4	1.0	-52.9	-13.0	-39.9	
2.473	-12.7	H	3.0	36.4	1.0	-48.1	-13.0	-35.1	
3.297	-7.2	H	3.0	35.8	1.0	-42.0	-13.0	-29.0	
Mid Ch, 836.6MHz									
1.673	-15.8	V	3.0	37.3	1.0	-52.2	-13.0	-39.2	
2.510	-10.0	V	3.0	36.4	1.0	-45.3	-13.0	-32.3	
3.346	-6.6	V	3.0	35.8	1.0	-41.4	-13.0	-28.4	
1.673	-16.1	H	3.0	37.3	1.0	-52.4	-13.0	-39.4	
2.510	-11.2	H	3.0	36.4	1.0	-46.6	-13.0	-33.6	
3.346	-6.9	H	3.0	35.8	1.0	-41.6	-13.0	-28.6	
High Ch, 848.8MHz									
1.698	-15.8	V	3.0	37.3	1.0	-52.1	-13.0	-39.1	
2.547	-8.9	V	3.0	36.3	1.0	-44.3	-13.0	-31.3	
3.395	-6.9	V	3.0	35.7	1.0	-41.6	-13.0	-28.6	
1.698	-16.0	H	3.0	37.3	1.0	-52.3	-13.0	-39.3	
2.547	-11.1	H	3.0	36.3	1.0	-46.4	-13.0	-33.4	
3.395	-7.3	H	3.0	35.7	1.0	-42.0	-13.0	-29.0	

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 #: 14U1929

Date: 07/03/14

Test Engineer: K. Ros

Configuration: X-pos. EUT w/ AC Adaptor

Mode: GPRS 850

Tested By: _____

Reviewed By: _____

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
GSM850	Low Ch, 824.2MHz									
	1.648	-15.9	V	3.0	37.4	1.0	-52.3	-13.0	-39.3	
	2.473	-9.5	V	3.0	36.4	1.0	-44.9	-13.0	-31.9	
	3.297	-6.4	V	3.0	35.8	1.0	-41.2	-13.0	-28.2	
	1.648	-16.2	H	3.0	37.4	1.0	-52.6	-13.0	-39.6	
	2.473	-11.5	H	3.0	36.4	1.0	-46.9	-13.0	-33.9	
GPRS	3.297	-7.0	H	3.0	35.8	1.0	-41.8	-13.0	-28.8	
	Mid Ch, 836.6MHz									
	1.673	-15.3	V	3.0	37.3	1.0	-51.6	-13.0	-38.6	
	2.510	-9.9	V	3.0	36.4	1.0	-45.3	-13.0	-32.3	
	3.346	-7.2	V	3.0	35.8	1.0	-41.9	-13.0	-28.9	
	1.673	-16.3	H	3.0	37.3	1.0	-52.6	-13.0	-39.6	
	2.510	-11.4	H	3.0	36.4	1.0	-46.8	-13.0	-33.8	
	3.346	-6.7	H	3.0	35.8	1.0	-41.4	-13.0	-28.4	
	High Ch, 848.8MHz									
	1.698	-15.1	V	3.0	37.3	1.0	-51.4	-13.0	-38.4	
	2.547	-9.2	V	3.0	36.3	1.0	-44.5	-13.0	-31.5	
	3.395	-7.5	V	3.0	35.7	1.0	-42.2	-13.0	-29.2	
	1.698	-15.7	H	3.0	37.3	1.0	-52.0	-13.0	-39.0	
	2.547	-11.1	H	3.0	36.3	1.0	-46.4	-13.0	-33.4	
	3.395	-6.4	H	3.0	35.7	1.0	-41.1	-13.0	-28.1	

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: Project #: Date: Test Engineer: Configuration: Mode:		Sony 14U17929 07/07/14 B. Liu X Position, EUT w/ AC Adaptor and HS LTE17 10M 16QAM HARM								
Chamber 5m Chamber B		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 16QAM	Low Ch, 709MHz									
	1.418	-29.9	V	3.0	37.8	1.0	-66.7	-13.0	-53.7	
	2.127	-22.8	V	3.0	36.7	1.0	-58.5	-13.0	-45.5	
	2.836	-21.5	V	3.0	36.2	1.0	-56.7	-13.0	-43.7	
	1.418	-28.7	H	3.0	37.8	1.0	-65.5	-13.0	-52.5	
	2.127	-24.4	H	3.0	36.7	1.0	-60.1	-13.0	-47.1	
	2.836	-23.4	H	3.0	36.2	1.0	-58.6	-13.0	-45.6	
	Mid Ch, 710MHz									
	1.420	-30.1	V	3.0	37.8	1.0	-66.9	-13.0	-53.9	
	2.130	-23.2	V	3.0	36.7	1.0	-58.9	-13.0	-45.9	
	2.840	-22.1	V	3.0	36.2	1.0	-57.2	-13.0	-44.2	
	1.420	-28.2	H	3.0	37.8	1.0	-65.0	-13.0	-52.0	
	2.130	-23.9	H	3.0	36.7	1.0	-59.6	-13.0	-46.6	
	2.840	-23.1	H	3.0	36.2	1.0	-58.2	-13.0	-45.2	
	High Ch, 711MHz									
	1.422	-29.7	V	3.0	37.8	1.0	-66.5	-13.0	-53.5	
	2.133	-22.5	V	3.0	36.7	1.0	-58.2	-13.0	-45.2	
	2.844	-21.3	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
	1.422	-28.3	H	3.0	37.8	1.0	-65.1	-13.0	-52.1	
	2.133	-23.4	H	3.0	36.7	1.0	-59.1	-13.0	-46.1	
	2.844	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	
	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: Project #: Date: Test Engineer: Configuration: Mode:		Sony 14U17929 07/07/14 B. Liu X Position, EUT w/ AC Adaptor and HS LTE17 10M QPSK HARM								
		Chamber	Pre-amplifier	Filter	Limit					
		5m Chamber B	T34 8449B	Filter 1	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
	Low Ch, 709MHz									
	1.418	-29.7	V	3.0	37.8	1.0	-66.4	-13.0	-53.4	
	2.127	-22.7	V	3.0	36.7	1.0	-58.4	-13.0	-45.4	
10MHz	2.836	-21.7	V	3.0	36.2	1.0	-56.9	-13.0	-43.9	
	1.418	-28.8	H	3.0	37.8	1.0	-65.6	-13.0	-52.6	
	2.127	-24.0	H	3.0	36.7	1.0	-59.7	-13.0	-46.7	
QPSK	2.836	-23.2	H	3.0	36.2	1.0	-58.3	-13.0	-45.3	
	Mid Ch, 710MHz									
	1.420	-29.7	V	3.0	37.8	1.0	-66.5	-13.0	-53.5	
	2.130	-23.2	V	3.0	36.7	1.0	-58.9	-13.0	-45.9	
	2.840	-20.8	V	3.0	36.2	1.0	-56.0	-13.0	-43.0	
	1.420	-28.2	H	3.0	37.8	1.0	-65.0	-13.0	-52.0	
	2.130	-23.9	H	3.0	36.7	1.0	-59.6	-13.0	-46.6	
	2.840	-23.1	H	3.0	36.2	1.0	-58.3	-13.0	-45.3	
	High Ch, 711MHz									
	1.422	-29.4	V	3.0	37.8	1.0	-66.2	-13.0	-53.2	
	2.133	-22.8	V	3.0	36.7	1.0	-58.5	-13.0	-45.5	
	2.844	-21.2	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
	1.422	-28.8	H	3.0	37.8	1.0	-65.6	-13.0	-52.6	
	2.133	-23.9	H	3.0	36.7	1.0	-59.6	-13.0	-46.6	
	2.844	-22.4	H	3.0	36.2	1.0	-57.6	-13.0	-44.6	
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: Project #: Date: Test Engineer: Configuration: Mode:		Sony 14U17929 07/07/14 B. Liu X Position, EUT w/ AC Adaptor and HS LTE17 5M 16QAM HARM								
Chamber 5m Chamber B		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	-29.7	V	3.0	37.8	1.0	-66.5	-13.0	-53.5	
	2.120	-23.0	V	3.0	36.7	1.0	-58.7	-13.0	-45.7	
	2.283	-23.2	V	3.0	36.6	1.0	-58.8	-13.0	-45.8	
	1.413	-28.1	H	3.0	37.8	1.0	-64.9	-13.0	-51.9	
	2.120	-23.7	H	3.0	36.7	1.0	-59.4	-13.0	-46.4	
	2.283	-24.4	H	3.0	36.6	1.0	-60.0	-13.0	-47.0	
	Mid Ch, 710MHz									
	1.420	-29.0	V	3.0	37.8	1.0	-65.7	-13.0	-52.7	
	2.130	-22.7	V	3.0	36.7	1.0	-58.4	-13.0	-45.4	
	2.840	-21.8	V	3.0	36.2	1.0	-57.0	-13.0	-44.0	
	1.420	-28.5	H	3.0	37.8	1.0	-65.2	-13.0	-52.2	
	2.130	-24.3	H	3.0	36.7	1.0	-60.0	-13.0	-47.0	
	2.840	-22.5	H	3.0	36.2	1.0	-57.7	-13.0	-44.7	
	High Ch, 713.5MHz									
	1.427	-30.0	V	3.0	37.7	1.0	-66.7	-13.0	-53.7	
	2.141	-22.8	V	3.0	36.7	1.0	-58.4	-13.0	-45.4	
	2.854	-21.3	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
	1.427	-27.9	H	3.0	37.7	1.0	-64.7	-13.0	-51.7	
	2.141	-24.2	H	3.0	36.7	1.0	-59.9	-13.0	-46.9	
	2.854	-22.1	H	3.0	36.2	1.0	-57.2	-13.0	-44.2	
	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: Project #: Date: Test Engineer: Configuration: Mode:		Sony 14U17929 07/07/14 B. Liu X Position, EUT w/ AC Adaptor and HS LTE17 5M QPSK HARM								
		Chamber	Pre-amplifier	Filter	Limit					
		5m Chamber B	T34 8449B	Filter 1	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	-30.3	V	3.0	37.8	1.0	-67.1	-13.0	-54.1	
	2.120	-22.9	V	3.0	36.7	1.0	-58.6	-13.0	-45.6	
	2.283	-23.4	V	3.0	36.6	1.0	-59.0	-13.0	-46.0	
	1.413	-28.1	H	3.0	37.8	1.0	-64.9	-13.0	-51.9	
	2.120	-23.9	H	3.0	36.7	1.0	-59.6	-13.0	-46.6	
	2.283	-25.2	H	3.0	36.6	1.0	-60.8	-13.0	-47.8	
	Mid Ch, 710MHz									
	1.420	-29.9	V	3.0	37.8	1.0	-66.7	-13.0	-53.7	
	2.130	-22.1	V	3.0	36.7	1.0	-57.8	-13.0	-44.8	
	2.840	-21.5	V	3.0	36.2	1.0	-56.7	-13.0	-43.7	
	1.420	-28.4	H	3.0	37.8	1.0	-65.2	-13.0	-52.2	
	2.130	-23.2	H	3.0	36.7	1.0	-58.9	-13.0	-45.9	
	2.840	-21.8	H	3.0	36.2	1.0	-57.0	-13.0	-44.0	
	High Ch, 713.5MHz									
	1.427	-29.1	V	3.0	37.7	1.0	-65.9	-13.0	-52.9	
	2.141	-22.7	V	3.0	36.7	1.0	-58.4	-13.0	-45.4	
	2.854	-21.9	V	3.0	36.2	1.0	-57.1	-13.0	-44.1	
	1.427	-28.4	H	3.0	37.7	1.0	-65.1	-13.0	-52.1	
	2.141	-24.0	H	3.0	36.7	1.0	-59.7	-13.0	-46.7	
2.854	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Band LTE13 10MHz 16QAM	Company: Sony									
	Project #: 14U17929									
	Date: 07/07/14									
	Test Engineer: B. Liu									
	Configuration: X Position, EUT w/ AC Adaptor and HS									
	Mode: LTE13 10M 16QAM HARM									
	Chamber 3m Chamber		Pre-amplifier T145 8449B		Filter Filter 1		Limit Part 27			
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Mid Ch, (782 MHz)									
	1.564	-26.2	V	3.0	30.7	1.0	-55.8	-13.0	-42.8	
2.346	-24.6	V	3.0	28.9	1.0	-52.5	-13.0	-39.5		
3.128	-28.0	V	3.0	26.8	1.0	-53.9	-13.0	-40.9		
1.564	-27.8	H	3.0	30.7	1.0	-57.5	-13.0	-44.5		
2.346	-27.0	H	3.0	28.9	1.0	-54.8	-13.0	-41.8		
3.128	-28.2	H	3.0	26.8	1.0	-54.0	-13.0	-41.0		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Band LTE13 10MHz QPSK	Company: Sony									
	Project #: 14U17929									
	Date: 07/07/14									
	Test Engineer: B. Liu									
	Configuration: X Position, EUT w/ AC Adaptor and HS									
	Mode: LTE13 10M QPSK HARM									
	Chamber 3m Chamber		Pre-amplifier T145 8449B		Filter Filter 1		Limit Part 27			
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Mid Ch, (782 MHz)									
	1.564	-25.6	V	3.0	30.7	1.0	-55.3	-13.0	-42.3	
2.346	-25.7	V	3.0	28.9	1.0	-53.6	-13.0	-40.6		
3.128	-28.2	V	3.0	26.8	1.0	-54.1	-13.0	-41.1		
1.564	-28.2	H	3.0	30.7	1.0	-57.9	-13.0	-44.9		
2.346	-26.8	H	3.0	28.9	1.0	-54.7	-13.0	-41.7		
3.128	-28.3	H	3.0	26.8	1.0	-54.1	-13.0	-41.1		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		14U17929								
Date:		07/03/14								
Test Engineer:		O. Stoelting								
Configuration:		X Position, EUT and AC Adapter								
Mode:		TX, LTE band 13, 5MHz BW, 16QAM								
		Chamber		Pre-amplifier		Filter		Limit		
		5m Chamber A		T145 8449B		Filter 1		Part 27		
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE13 5MHz 16QAM	Low Ch, (779.5 MHz)									
	1.559	-1.8	V	3.0	30.7	1.0	-31.5	-13.0	-18.5	
	2.339	-23.0	V	3.0	28.9	1.0	-50.9	-13.0	-37.9	
	3.118	-28.4	V	3.0	26.9	1.0	-54.2	-13.0	-41.2	
	1.559	-4.1	H	3.0	30.7	1.0	-33.8	-13.0	-20.8	
	2.339	-26.6	H	3.0	28.9	1.0	-54.5	-13.0	-41.5	
	3.118	-28.8	H	3.0	26.9	1.0	-54.6	-13.0	-41.6	
	Mid Ch, (782 MHz)									
	1.564	-1.8	V	3.0	30.7	1.0	-31.5	-13.0	-18.5	
	2.346	-22.2	V	3.0	28.9	1.0	-50.1	-13.0	-37.1	
	3.128	-28.1	V	3.0	26.8	1.0	-53.9	-13.0	-40.9	
	1.564	-2.7	H	3.0	30.7	1.0	-32.3	-13.0	-19.3	
	2.346	-25.9	H	3.0	28.9	1.0	-53.7	-13.0	-40.7	
	3.128	-28.9	H	3.0	26.8	1.0	-54.8	-13.0	-41.8	
	High Ch, (784.5 MHz)									
	1.569	-0.7	V	3.0	30.7	1.0	-30.4	-13.0	-17.4	
	2.354	-18.4	V	3.0	28.8	1.0	-46.2	-13.0	-33.2	
	3.138	-27.2	V	3.0	26.8	1.0	-53.0	-13.0	-40.0	
1.569	-3.1	H	3.0	30.7	1.0	-32.8	-13.0	-19.8		
2.354	-21.2	H	3.0	28.8	1.0	-49.1	-13.0	-36.1		
3.138	-28.7	H	3.0	26.8	1.0	-54.5	-13.0	-41.5		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:	Sony									
Project #:	14U17929									
Date:	07/03/14									
Test Engineer:	O. Stoelting									
Configuration:	X Position, EUT and AC Adapter									
Mode:	TX, LTE band 13, 5MHz BW, QPSK									
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T145 8449B		Filter 1		Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE13 5MHz QPSK	Low Ch, (779.5 MHz)									
	1.559	-2.7	V	3.0	30.7	1.0	-32.4	-13.0	-19.4	
	2.339	-20.9	V	3.0	28.9	1.0	-48.8	-13.0	-35.8	
	3.118	-28.6	V	3.0	26.9	1.0	-54.5	-13.0	-41.5	
	1.559	-5.0	H	3.0	30.7	1.0	-34.7	-13.0	-21.7	
	2.339	-27.1	H	3.0	28.9	1.0	-54.9	-13.0	-41.9	
	3.118	-28.2	H	3.0	26.9	1.0	-54.0	-13.0	-41.0	
	Mid Ch, (782 MHz)									
	1.564	-1.8	V	3.0	30.7	1.0	-31.5	-13.0	-18.5	
	2.346	-21.7	V	3.0	28.9	1.0	-49.6	-13.0	-36.6	
	3.128	-28.2	V	3.0	26.8	1.0	-54.1	-13.0	-41.1	
	1.564	-2.7	H	3.0	30.7	1.0	-32.4	-13.0	-19.4	
	2.346	-24.9	H	3.0	28.9	1.0	-52.8	-13.0	-39.8	
	3.128	-28.3	H	3.0	26.8	1.0	-54.1	-13.0	-41.1	
	High Ch, (784.5 MHz)									
	1.569	-0.6	V	3.0	30.7	1.0	-30.3	-13.0	-17.3	
	2.354	-18.2	V	3.0	28.8	1.0	-46.0	-13.0	-33.0	
	3.138	-26.6	V	3.0	26.8	1.0	-52.4	-13.0	-39.4	
1.569	-3.4	H	3.0	30.7	1.0	-33.1	-13.0	-20.1		
2.354	-21.4	H	3.0	28.8	1.0	-49.2	-13.0	-36.2		
3.138	-28.4	H	3.0	26.8	1.0	-54.2	-13.0	-41.2		
Rev. 03.03.09										

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Company: Sony Project #: 14U17929 Date: 07/03/14 Test Engineer: T. Oeur Configuration: EUT with AC charger & Headphones Mode: TX, LTE BAND 7, 20MHz BW, 16QAM										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		FCC Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7 20MHz 16QAM	Low Channel (2510MHz)									
	5.020	-19.0	V	3.0	34.8	1.0	-52.7	-25.0	-27.7	
	7.530	-14.6	V	3.0	34.9	1.0	-48.6	-25.0	-23.6	
	10.040	-13.4	V	3.0	35.3	1.0	-47.7	-25.0	-22.7	
	5.020	-18.6	H	3.0	34.8	1.0	-52.4	-25.0	-27.4	
	7.530	-14.0	H	3.0	34.9	1.0	-48.0	-25.0	-23.0	
	10.040	-12.1	H	3.0	35.3	1.0	-46.4	-25.0	-21.4	
	Mid Channel (2535MHz)									
	5.070	-19.6	V	3.0	34.7	1.0	-53.3	-25.0	-28.3	
	7.605	-14.8	V	3.0	34.9	1.0	-48.8	-25.0	-23.8	
	10.140	-13.2	V	3.0	35.3	1.0	-47.5	-25.0	-22.5	
	5.070	-19.3	H	3.0	34.7	1.0	-53.1	-25.0	-28.1	
	7.605	-13.9	H	3.0	34.9	1.0	-47.8	-25.0	-22.8	
	10.140	-12.8	H	3.0	35.3	1.0	-47.1	-25.0	-22.1	
	High Channel (2560MHz)									
	5.120	-19.8	V	3.0	34.7	1.0	-53.5	-25.0	-28.5	
	7.680	-14.3	V	3.0	35.0	1.0	-48.3	-25.0	-23.3	
	10.240	-12.4	V	3.0	35.2	1.0	-46.6	-25.0	-21.6	
5.120	-19.0	H	3.0	34.7	1.0	-52.7	-25.0	-27.7		
7.680	-13.3	H	3.0	35.0	1.0	-47.2	-25.0	-22.2		
10.240	-12.6	H	3.0	35.2	1.0	-46.9	-25.0	-21.9		
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 #: 14U17929 Date: 07/03/14 Test Engineer: T. Oeur Configuration: EUT with AC charger & Headphones Mode: TX, LTE BAND 7, 20MHz BW, QPSK										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		FCC Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2510MHz)										
LTE7	5.020	-19.0	V	3.0	34.8	1.0	-52.8	-25.0	-27.8	
	7.530	-15.1	V	3.0	34.9	1.0	-49.0	-25.0	-24.0	
	10.040	-13.3	V	3.0	35.3	1.0	-47.7	-25.0	-22.7	
20MHz	5.020	-18.6	H	3.0	34.8	1.0	-52.3	-25.0	-27.3	
	7.530	-13.6	H	3.0	34.9	1.0	-47.6	-25.0	-22.6	
	10.040	-11.6	H	3.0	35.3	1.0	-46.0	-25.0	-21.0	
QPSK	Mid Channel (2535MHz)									
	5.070	-19.5	V	3.0	34.7	1.0	-53.2	-25.0	-28.2	
	7.605	-15.4	V	3.0	34.9	1.0	-49.3	-25.0	-24.3	
	10.140	-13.4	V	3.0	35.3	1.0	-47.7	-25.0	-22.7	
	5.070	-18.6	H	3.0	34.7	1.0	-52.3	-25.0	-27.3	
	7.605	-14.1	H	3.0	34.9	1.0	-48.0	-25.0	-23.0	
	10.140	-11.8	H	3.0	35.3	1.0	-46.1	-25.0	-21.1	
	High Channel (2560MHz)									
	5.120	-19.4	V	3.0	34.7	1.0	-53.1	-25.0	-28.1	
	7.680	-14.1	V	3.0	35.0	1.0	-48.1	-25.0	-23.1	
	10.240	-12.5	V	3.0	35.2	1.0	-46.8	-25.0	-21.8	
	5.120	-18.1	H	3.0	34.7	1.0	-51.8	-25.0	-26.8	
7.680	-13.3	H	3.0	35.0	1.0	-47.3	-25.0	-22.3		
10.240	-11.9	H	3.0	35.2	1.0	-46.2	-25.0	-21.2		
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 #: 14U17929 Date: 07/03/14 Test Engineer: T. Oeur Configuration: EUT with AC charger & Headphones Mode: TX, LTE BAND 7, 15MHz BW, 16QAM										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		FCC Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2507.5MHz)										
LTE7	5.015	-18.9	V	3.0	34.8	1.0	-52.7	-25.0	-27.7	
	7.523	-14.8	V	3.0	34.9	1.0	-48.7	-25.0	-23.7	
	10.030	-13.6	V	3.0	35.3	1.0	-47.9	-25.0	-22.9	
15MHz	5.015	-18.6	H	3.0	34.8	1.0	-52.4	-25.0	-27.4	
	7.523	-13.5	H	3.0	34.9	1.0	-47.4	-25.0	-22.4	
	10.030	-11.4	H	3.0	35.3	1.0	-45.8	-25.0	-20.8	
Mid Channel (2535MHz)										
16QAM	5.070	-19.7	V	3.0	34.7	1.0	-53.4	-25.0	-28.4	
	7.605	-14.8	V	3.0	34.9	1.0	-48.7	-25.0	-23.7	
	10.140	-13.7	V	3.0	35.3	1.0	-48.0	-25.0	-23.0	
	5.070	-18.6	H	3.0	34.7	1.0	-52.3	-25.0	-27.3	
	7.605	-13.7	H	3.0	34.9	1.0	-47.7	-25.0	-22.7	
	10.140	-12.4	H	3.0	35.3	1.0	-46.6	-25.0	-21.6	
High Channel (2562.5MHz)										
	5.125	-18.9	V	3.0	34.7	1.0	-52.6	-25.0	-27.6	
	7.688	-13.7	V	3.0	35.0	1.0	-47.6	-25.0	-22.6	
	10.250	-12.6	V	3.0	35.2	1.0	-46.9	-25.0	-21.9	
	5.125	-18.5	H	3.0	34.7	1.0	-52.2	-25.0	-27.2	
	7.688	-13.2	H	3.0	35.0	1.0	-47.2	-25.0	-22.2	
	10.250	-12.5	H	3.0	35.2	1.0	-46.7	-25.0	-21.7	
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: Sony Project #: 14U17929 Date: 07/03/14 Test Engineer: T. Oeur Configuration: EUT with AC charger & Headphones Mode: TX, LTE BAND 7, 15MHz BW,QPSK										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T144 8449B		Filter 1		FCC Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2507.5MHz)										
LTE7	5.015	-18.4	V	3.0	36.3	1.0	-53.7	-25.0	-28.7	
	7.523	-14.7	V	3.0	36.6	1.0	-50.3	-25.0	-25.3	
	10.030	-13.4	V	3.0	37.2	1.0	-49.5	-25.0	-24.5	
15MHz	5.015	-17.8	H	3.0	36.3	1.0	-53.1	-25.0	-28.1	
	7.523	-13.9	H	3.0	36.6	1.0	-49.5	-25.0	-24.5	
	10.030	-11.4	H	3.0	37.2	1.0	-47.6	-25.0	-22.6	
QPSK	Mid Channel (2535MHz)									
	5.070	-19.9	V	3.0	36.3	1.0	-55.1	-25.0	-30.1	
	7.605	-14.9	V	3.0	36.6	1.0	-50.5	-25.0	-25.5	
	10.140	-13.3	V	3.0	37.2	1.0	-49.4	-25.0	-24.4	
	5.070	-19.3	H	3.0	36.3	1.0	-54.6	-25.0	-29.6	
	7.605	-13.2	H	3.0	36.6	1.0	-48.8	-25.0	-23.8	
	10.140	-12.7	H	3.0	37.2	1.0	-48.8	-25.0	-23.8	
	High Channel (2562.5MHz)									
	5.125	-19.4	V	3.0	36.3	1.0	-54.7	-25.0	-29.7	
	7.688	-12.6	V	3.0	36.6	1.0	-48.3	-25.0	-23.3	
	10.250	-12.4	V	3.0	37.1	1.0	-48.5	-25.0	-23.5	
	5.125	-18.7	H	3.0	36.3	1.0	-54.0	-25.0	-29.0	
7.688	-12.8	H	3.0	36.6	1.0	-48.5	-25.0	-23.5		
10.250	-12.2	H	3.0	37.1	1.0	-48.3	-25.0	-23.3		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Company: Sony Project #: 14U17929 Date: 07/03/14 Test Engineer: T. Oeur Configuration: EUT with AC charger & Headphones Mode: TX, LTE BAND 7, 10MHz BW, 16QAM										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		FCC Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2505MHz)										
LTE7	5.010	-18.8	V	3.0	34.8	1.0	-52.6	-25.0	-27.6	
	7.515	-13.8	V	3.0	34.9	1.0	-47.7	-25.0	-22.7	
	10.020	-13.3	V	3.0	35.4	1.0	-47.7	-25.0	-22.7	
10MHz	5.010	-18.5	H	3.0	34.8	1.0	-52.3	-25.0	-27.3	
	7.515	-13.4	H	3.0	34.9	1.0	-47.4	-25.0	-22.4	
	10.020	-12.6	H	3.0	35.4	1.0	-47.0	-25.0	-22.0	
16QAM	Mid Channel (2535MHz)									
	5.070	-19.4	V	3.0	34.7	1.0	-53.2	-25.0	-28.2	
	7.605	-14.2	V	3.0	34.9	1.0	-48.2	-25.0	-23.2	
	10.140	-13.1	V	3.0	35.3	1.0	-47.4	-25.0	-22.4	
	5.070	-19.2	H	3.0	34.7	1.0	-53.0	-25.0	-28.0	
	7.605	-13.9	H	3.0	34.9	1.0	-47.8	-25.0	-22.8	
	10.140	-11.5	H	3.0	35.3	1.0	-45.8	-25.0	-20.8	
	High Channel (2565MHz)									
	5.130	-19.1	V	3.0	34.7	1.0	-52.8	-25.0	-27.8	
	7.689	-14.0	V	3.0	35.0	1.0	-48.0	-25.0	-23.0	
	10.260	-12.3	V	3.0	35.2	1.0	-46.5	-25.0	-21.5	
	5.130	-18.9	H	3.0	34.7	1.0	-52.7	-25.0	-27.7	
	7.689	-13.1	H	3.0	35.0	1.0	-47.0	-25.0	-22.0	
	10.260	-11.9	H	3.0	35.2	1.0	-46.1	-25.0	-21.1	
	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 #: 14U17929 Date: 07/03/14 Test Engineer: T. Oeur Configuration: EUT with AC charger & Headphones Mode: TX, LTE BAND 7, 10MHz BW, QPSK										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T34 8449B		Filter 1		FCC Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2505MHz)										
LTE7	5.010	-18.0	V	3.0	34.8	1.0	-51.8	-25.0	-26.8	
	7.515	-13.9	V	3.0	34.9	1.0	-47.8	-25.0	-22.8	
	10.020	-12.9	V	3.0	35.4	1.0	-47.3	-25.0	-22.3	
10MHz	5.010	-18.3	H	3.0	34.8	1.0	-52.0	-25.0	-27.0	
	7.515	-13.4	H	3.0	34.9	1.0	-47.4	-25.0	-22.4	
	10.020	-12.8	H	3.0	35.4	1.0	-47.2	-25.0	-22.2	
QPSK	Mid Channel (2535MHz)									
	5.070	-19.3	V	3.0	34.7	1.0	-53.1	-25.0	-28.1	
	7.605	-13.9	V	3.0	34.9	1.0	-47.8	-25.0	-22.8	
	10.122	-13.2	V	3.0	35.3	1.0	-47.5	-25.0	-22.5	
	5.070	-19.2	H	3.0	34.7	1.0	-52.9	-25.0	-27.9	
	7.605	-13.8	H	3.0	34.9	1.0	-47.7	-25.0	-22.7	
	10.122	-12.7	H	3.0	35.3	1.0	-47.0	-25.0	-22.0	
High Channel (2565MHz)										
	5.130	-18.4	V	3.0	34.7	1.0	-52.1	-25.0	-27.1	
	7.689	-13.8	V	3.0	35.0	1.0	-47.7	-25.0	-22.7	
	10.260	-12.3	V	3.0	35.2	1.0	-46.6	-25.0	-21.6	
	5.130	-19.3	H	3.0	34.7	1.0	-53.0	-25.0	-28.0	
	7.689	-12.9	H	3.0	35.0	1.0	-46.9	-25.0	-21.9	
	10.260	-11.8	H	3.0	35.2	1.0	-46.1	-25.0	-21.1	
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 #: 14U17929 Date: 07/03/14 Test Engineer: T. Oeur Configuration: EUT with AC charger & Headphones Mode: TX, LTE BAND 7, 5MHz BW, 16QAM										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T145 8449B		Filter 1		FCC Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2502.5MHz)										
LTE7	5.005	-19.0	V	3.0	35.3	1.0	-53.3	-25.0	-28.3	
	7.508	-15.1	V	3.0	35.7	1.0	-49.8	-25.0	-24.8	
	10.010	-13.2	V	3.0	35.5	1.0	-47.7	-25.0	-22.7	
5MHz	5.005	-18.7	H	3.0	35.3	1.0	-53.0	-25.0	-28.0	
	7.508	-13.8	H	3.0	35.7	1.0	-48.5	-25.0	-23.5	
	10.010	-12.5	H	3.0	35.5	1.0	-47.0	-25.0	-22.0	
16QAM	Mid Channel (2535MHz)									
	5.070	-19.0	V	3.0	35.3	1.0	-53.4	-25.0	-28.4	
	7.605	-15.0	V	3.0	35.7	1.0	-49.7	-25.0	-24.7	
	10.140	-12.6	V	3.0	35.4	1.0	-47.0	-25.0	-22.0	
	5.007	-19.2	H	3.0	35.3	1.0	-53.5	-25.0	-28.5	
	7.605	-13.4	H	3.0	35.7	1.0	-48.1	-25.0	-23.1	
	10.140	-12.5	H	3.0	35.4	1.0	-47.0	-25.0	-22.0	
	High Channel (2567.5MHz)									
	5.135	-18.7	V	3.0	35.3	1.0	-53.0	-25.0	-28.0	
	7.703	-13.5	V	3.0	35.7	1.0	-48.2	-25.0	-23.2	
	10.270	-12.4	V	3.0	35.3	1.0	-46.7	-25.0	-21.7	
	5.135	-17.2	H	3.0	35.3	1.0	-51.6	-25.0	-26.6	
	7.703	-12.5	H	3.0	35.7	1.0	-47.2	-25.0	-22.2	
	10.270	-11.3	H	3.0	35.3	1.0	-45.6	-25.0	-20.6	
	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 14U17929 07/03/14 T. Oeur EUT with AC charger & Headphones TX, LTE BAND 7, 5MHz BW,QPSK									
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T145 8449B		Filter 1		FCC Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7 5MHz QPSK	Low Channel (2502.5MHz)									
	5.005	-18.3	V	3.0	35.3	1.0	-52.6	-25.0	-27.6	
	7.508	-14.7	V	3.0	35.7	1.0	-49.4	-25.0	-24.4	
	10.010	-13.0	V	3.0	35.5	1.0	-47.5	-25.0	-22.5	
	5.005	-18.7	H	3.0	35.3	1.0	-53.0	-25.0	-28.0	
	7.508	-14.0	H	3.0	35.7	1.0	-48.7	-25.0	-23.7	
	10.010	-12.9	H	3.0	35.5	1.0	-47.4	-25.0	-22.4	
	Mid Channel (2535MHz)									
	5.007	-16.8	V	3.0	35.3	1.0	-51.1	-25.0	-26.1	
	7.605	-14.9	V	3.0	35.7	1.0	-49.5	-25.0	-24.5	
	10.140	-13.3	V	3.0	35.4	1.0	-47.7	-25.0	-22.7	
	5.007	-19.0	H	3.0	35.3	1.0	-53.3	-25.0	-28.3	
7.605	-13.6	H	3.0	35.7	1.0	-48.3	-25.0	-23.3		
10.140	-11.9	H	3.0	35.4	1.0	-46.3	-25.0	-21.3		
High Channel (2567.5MHz)										
5.135	-18.6	V	3.0	35.3	1.0	-52.9	-25.0	-27.9		
7.703	-13.9	V	3.0	35.7	1.0	-48.6	-25.0	-23.6		
10.270	-12.4	V	3.0	35.3	1.0	-46.7	-25.0	-21.7		
5.135	-17.7	H	3.0	35.3	1.0	-52.1	-25.0	-27.1		
7.703	-12.5	H	3.0	35.7	1.0	-47.2	-25.0	-22.2		
10.270	-12.4	H	3.0	35.3	1.0	-46.7	-25.0	-21.7		
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 #: 14U17929 Date: 07/03/14 Test Engineer: B.Liu Configuration: X-pos EUT w/ AC Adaptor Mode: LTE5 10M 16QAM HARM										
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
LTE5 10MHz 16QAM	Low Ch, 829MHz									
	1.658	-15.8	V	3.0	37.4	1.0	-52.2	-13.0	-39.2	
	2.487	-10.0	V	3.0	36.4	1.0	-45.4	-13.0	-32.4	
	3.316	-6.5	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
	1.658	-16.1	H	3.0	37.4	1.0	-52.5	-13.0	-39.5	
	2.487	-11.7	H	3.0	36.4	1.0	-47.1	-13.0	-34.1	
	3.316	-7.0	H	3.0	35.8	1.0	-41.8	-13.0	-28.8	
	Mid Ch, 836.5MHz									
	1.673	89.7	V	3.0	37.3	1.0	53.4	-13.0	66.4	
	2.510	-11.1	V	3.0	36.4	1.0	-46.5	-13.0	-33.5	
	3.346	-6.6	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
	1.673	-15.3	H	3.0	37.3	1.0	-51.6	-13.0	-38.6	
	2.510	-11.8	H	3.0	36.4	1.0	-47.2	-13.0	-34.2	
	3.346	-7.1	H	3.0	35.8	1.0	-41.8	-13.0	-28.8	
	High Ch, 844MHz									
	1.688	-15.0	V	3.0	37.3	1.0	-51.4	-13.0	-38.4	
	2.532	-9.7	V	3.0	36.3	1.0	-45.0	-13.0	-32.0	
	3.376	-6.6	V	3.0	35.7	1.0	-41.3	-13.0	-28.3	
	1.688	-15.1	H	3.0	37.3	1.0	-51.4	-13.0	-38.4	
	2.532	-11.5	H	3.0	36.3	1.0	-46.8	-13.0	-33.8	
	3.376	-6.4	H	3.0	35.7	1.0	-41.1	-13.0	-28.1	
	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 #: 14U17929 Date: 07/03/14 Test Engineer: B.Liu Configuration: X-pos EUT w/ AC Adaptor Mode: LTE5 10M QPSK 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	-16.5	V	3.0	37.4	1.0	-52.9	-13.0	-39.9	
	2.487	-9.8	V	3.0	36.4	1.0	-45.2	-13.0	-32.2	
	3.316	-7.0	V	3.0	35.8	1.0	-41.8	-13.0	-28.8	
	1.658	-15.1	H	3.0	37.4	1.0	-51.5	-13.0	-38.5	
	2.487	-11.8	H	3.0	36.4	1.0	-47.2	-13.0	-34.2	
	3.316	-7.2	H	3.0	35.8	1.0	-42.0	-13.0	-29.0	
	Mid Ch, 836.5MHz									
	1.673	-15.0	V	3.0	37.3	1.0	-51.4	-13.0	-38.4	
	2.510	-9.1	V	3.0	36.4	1.0	-44.4	-13.0	-31.4	
	3.346	-6.7	V	3.0	35.8	1.0	-41.4	-13.0	-28.4	
	1.673	-15.4	H	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2.510	-11.9	H	3.0	36.4	1.0	-47.3	-13.0	-34.3	
	3.346	-6.0	H	3.0	35.8	1.0	-40.8	-13.0	-27.8	
	High Ch, 844MHz									
	1.688	-15.5	V	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2.532	-9.3	V	3.0	36.3	1.0	-44.7	-13.0	-31.7	
	3.376	-6.3	V	3.0	35.7	1.0	-41.1	-13.0	-28.1	
1.688	-15.5	H	3.0	37.3	1.0	-51.9	-13.0	-38.9		
2.532	-11.5	H	3.0	36.3	1.0	-46.9	-13.0	-33.9		
3.376	-6.9	H	3.0	35.7	1.0	-41.6	-13.0	-28.6		
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 #: 14U17929 Date: 07/03/14 Test Engineer: K. Ros Configuration: X-pos EUT w/ AC Adaptor Mode: LTE5 5M 16QAM HARM										
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
LTE5 5MHz 16QAM	Low Ch, 826.5MHz									
	1.653	-16.7	V	3.0	37.4	1.0	-53.0	-13.0	-40.0	
	2.480	-10.1	V	3.0	36.4	1.0	-45.4	-13.0	-32.4	
	3.306	-6.7	V	3.0	35.8	1.0	-41.5	-13.0	-28.5	
	1.653	-15.3	H	3.0	37.4	1.0	-51.6	-13.0	-38.6	
	2.480	-11.6	H	3.0	36.4	1.0	-47.0	-13.0	-34.0	
	3.306	-6.6	H	3.0	35.8	1.0	-41.4	-13.0	-28.4	
	Mid Ch, 836.5MHz									
	1.673	-16.0	V	3.0	37.3	1.0	-52.4	-13.0	-39.4	
	2.510	-9.9	V	3.0	36.4	1.0	-45.3	-13.0	-32.3	
	3.346	-6.6	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
	1.673	-15.6	H	3.0	37.3	1.0	-51.9	-13.0	-38.9	
	2.510	-11.4	H	3.0	36.4	1.0	-46.7	-13.0	-33.7	
	3.346	-6.6	H	3.0	35.8	1.0	-41.4	-13.0	-28.4	
	High Ch, 846.5MHz									
	1.693	-15.4	V	3.0	37.3	1.0	-51.7	-13.0	-38.7	
	2.539	-8.2	V	3.0	36.3	1.0	-43.5	-13.0	-30.5	
	3.386	-6.2	V	3.0	35.7	1.0	-40.9	-13.0	-27.9	
	1.693	-14.9	H	3.0	37.3	1.0	-51.2	-13.0	-38.2	
	2.539	-11.4	H	3.0	36.3	1.0	-46.7	-13.0	-33.7	
	3.386	-6.6	H	3.0	35.7	1.0	-41.3	-13.0	-28.3	
	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 #:		14U17929								
Date:		07/03/14								
Test Engineer:		K. Ros								
Configuration:		X-pos EUT w/ AC Adaptor								
Mode:		LTE5 5M QPSK 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	-15.9	V	3.0	37.4	1.0	-52.3	-13.0	-39.3	
	2.480	-9.6	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
	3.306	-6.8	V	3.0	35.8	1.0	-41.6	-13.0	-28.6	
	1.653	-15.2	H	3.0	37.4	1.0	-51.6	-13.0	-38.6	
	2.480	-10.7	H	3.0	36.4	1.0	-46.0	-13.0	-33.0	
	3.306	-6.8	H	3.0	35.8	1.0	-41.6	-13.0	-28.6	
	Mid Ch, 836.5MHz									
	1.673	-15.1	V	3.0	37.3	1.0	-51.4	-13.0	-38.4	
	2.510	-9.0	V	3.0	36.4	1.0	-44.3	-13.0	-31.3	
	3.346	-6.9	V	3.0	35.8	1.0	-41.6	-13.0	-28.6	
	1.673	-15.4	H	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2.510	-11.3	H	3.0	36.4	1.0	-46.7	-13.0	-33.7	
	3.346	-6.6	H	3.0	35.8	1.0	-41.3	-13.0	-28.3	
	High Ch, 846.5MHz									
	1.693	-15.4	V	3.0	37.3	1.0	-51.7	-13.0	-38.7	
	2.539	-8.9	V	3.0	36.3	1.0	-44.2	-13.0	-31.2	
	3.386	-5.7	V	3.0	35.7	1.0	-40.5	-13.0	-27.5	
	1.693	-15.3	H	3.0	37.3	1.0	-51.6	-13.0	-38.6	
	2.539	-11.4	H	3.0	36.3	1.0	-46.7	-13.0	-33.7	
	3.386	-7.2	H	3.0	35.7	1.0	-41.9	-13.0	-28.9	
	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 #: 14U17929 Date: 07/03/14 Test Engineer: K. Ros Configuration: X-pos EUT w/ AC Adaptor Mode: LTE5 3M 16QAM HARM										
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
LTE5 3MHz 16QAM	Low Ch, 825.5MHz									
	1.651	-16.4	V	3.0	37.4	1.0	-52.8	-13.0	-39.8	
	2.477	-9.9	V	3.0	36.4	1.0	-45.2	-13.0	-32.2	
	3.302	-6.3	V	3.0	35.8	1.0	-41.1	-13.0	-28.1	
	1.651	-16.2	H	3.0	37.4	1.0	-52.6	-13.0	-39.6	
	2.477	-11.6	H	3.0	36.4	1.0	-47.0	-13.0	-34.0	
	3.302	-6.9	H	3.0	35.8	1.0	-41.7	-13.0	-28.7	
	Mid Ch, 836.5MHz									
	1.673	-15.9	V	3.0	37.3	1.0	-52.2	-13.0	-39.2	
	2.510	-9.8	V	3.0	36.4	1.0	-45.2	-13.0	-32.2	
	3.346	-6.8	V	3.0	35.8	1.0	-41.6	-13.0	-28.6	
	1.673	-15.4	H	3.0	37.3	1.0	-51.7	-13.0	-38.7	
	2.510	-11.5	H	3.0	36.4	1.0	-46.8	-13.0	-33.8	
	3.346	-5.7	H	3.0	35.8	1.0	-40.4	-13.0	-27.4	
	High Ch, 847.5MHz									
	1.695	-15.9	V	3.0	37.3	1.0	-52.2	-13.0	-39.2	
	2.543	-9.7	V	3.0	36.3	1.0	-45.1	-13.0	-32.1	
	3.390	-6.6	V	3.0	35.7	1.0	-41.3	-13.0	-28.3	
	1.695	-15.0	H	3.0	37.3	1.0	-51.3	-13.0	-38.3	
	2.543	-11.7	H	3.0	36.3	1.0	-47.0	-13.0	-34.0	
	3.390	-6.6	H	3.0	35.7	1.0	-41.3	-13.0	-28.3	
	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: Project #: Date: Test Engineer: Configuration: Mode:		Sony 14U17929 07/03/14 K. Ros X-pos EUT w/ AC Adaptor LTE5 3M QPSK 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 3MHz QPSK	Low Ch, 825.5MHz									
	1.651	-16.2	V	3.0	37.4	1.0	-52.6	-13.0	-39.6	
	2.477	-9.9	V	3.0	36.4	1.0	-45.2	-13.0	-32.2	
	3.302	-7.0	V	3.0	35.8	1.0	-41.8	-13.0	-28.8	
	1.651	-16.0	H	3.0	37.4	1.0	-52.4	-13.0	-39.4	
	2.477	-11.0	H	3.0	36.4	1.0	-46.4	-13.0	-33.4	
	3.302	-6.6	H	3.0	35.8	1.0	-41.4	-13.0	-28.4	
	Mid Ch, 836.5MHz									
	1.673	-16.1	V	3.0	37.3	1.0	-52.4	-13.0	-39.4	
	2.510	-9.7	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
	3.346	-5.6	V	3.0	35.8	1.0	-40.3	-13.0	-27.3	
	1.673	-15.7	H	3.0	37.3	1.0	-52.0	-13.0	-39.0	
	2.510	-10.8	H	3.0	36.4	1.0	-46.2	-13.0	-33.2	
	3.346	-6.2	H	3.0	35.8	1.0	-41.0	-13.0	-28.0	
	High Ch, 847.5MHz									
	1.695	-15.0	V	3.0	37.3	1.0	-51.3	-13.0	-38.3	
	2.543	-8.6	V	3.0	36.3	1.0	-44.0	-13.0	-31.0	
	3.390	-6.6	V	3.0	35.7	1.0	-41.4	-13.0	-28.4	
	1.695	-15.4	H	3.0	37.3	1.0	-51.7	-13.0	-38.7	
	2.543	-11.6	H	3.0	36.3	1.0	-47.0	-13.0	-34.0	
3.390	-6.4	H	3.0	35.7	1.0	-41.1	-13.0	-28.1		
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 #: 14U17929
Date: 07/03/14
Test Engineer: K. Ros
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE5 1.4M 16QAM HARM

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
Low Ch, 824.7MHz										
LTE5	1.649	-16.0	V	3.0	37.4	1.0	-52.3	-13.0	-39.3	
	2.474	-9.4	V	3.0	36.4	1.0	-44.8	-13.0	-31.8	
1.4MHz	3.299	-6.3	V	3.0	35.8	1.0	-41.1	-13.0	-28.1	
	1.649	-15.6	H	3.0	37.4	1.0	-52.0	-13.0	-39.0	
16QAM	2.474	-11.2	H	3.0	36.4	1.0	-46.5	-13.0	-33.5	
	3.299	-7.0	H	3.0	35.8	1.0	-41.8	-13.0	-28.8	
Mid Ch, 836.5MHz										
	1.673	-15.3	V	3.0	37.3	1.0	-51.6	-13.0	-38.6	
	2.510	-9.3	V	3.0	36.4	1.0	-44.7	-13.0	-31.7	
	3.346	-6.5	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
	1.673	-15.6	H	3.0	37.3	1.0	-51.9	-13.0	-38.9	
	2.510	-11.8	H	3.0	36.4	1.0	-47.2	-13.0	-34.2	
	3.346	-6.1	H	3.0	35.8	1.0	-40.9	-13.0	-27.9	
High Ch, 848.3MHz										
	1.697	-15.2	V	3.0	37.3	1.0	-51.5	-13.0	-38.5	
	2.545	-9.4	V	3.0	36.3	1.0	-44.7	-13.0	-31.7	
	3.393	-6.5	V	3.0	35.7	1.0	-41.2	-13.0	-28.2	
	1.697	-15.5	H	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2.545	-11.3	H	3.0	36.3	1.0	-46.6	-13.0	-33.6	
	3.393	-6.8	H	3.0	35.7	1.0	-41.5	-13.0	-28.5	

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 #: 14U17929 Date: 07/03/14 Test Engineer: K. Ros Configuration: X-pos EUT w/ AC Adaptor Mode: LTE5 1.4M QPSK HARM										
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
1.4MHz QPSK	Low Ch, 824.7MHz									
	1.649	-16.4	V	3.0	37.4	1.0	-52.8	-13.0	-39.8	
	2.474	-9.7	V	3.0	36.4	1.0	-45.1	-13.0	-32.1	
	3.299	-6.7	V	3.0	35.8	1.0	-41.5	-13.0	-28.5	
	1.649	-15.9	H	3.0	37.4	1.0	-52.3	-13.0	-39.3	
	2.474	-11.7	H	3.0	36.4	1.0	-47.1	-13.0	-34.1	
	3.299	-6.7	H	3.0	35.8	1.0	-41.5	-13.0	-28.5	
	Mid Ch, 836.5MHz									
	1.673	-15.9	V	3.0	37.3	1.0	-52.3	-13.0	-39.3	
	2.510	-9.4	V	3.0	36.4	1.0	-44.7	-13.0	-31.7	
	3.346	-6.6	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
	1.673	-15.5	H	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2.510	-11.2	H	3.0	36.4	1.0	-46.5	-13.0	-33.5	
	3.346	-6.7	H	3.0	35.8	1.0	-41.5	-13.0	-28.5	
	High Ch, 848.3MHz									
	1.697	-15.0	V	3.0	37.3	1.0	-51.3	-13.0	-38.3	
	2.545	-9.1	V	3.0	36.3	1.0	-44.4	-13.0	-31.4	
	3.393	-6.5	V	3.0	35.7	1.0	-41.2	-13.0	-28.2	
1.697	-14.6	H	3.0	37.3	1.0	-50.9	-13.0	-37.9		
2.545	-11.2	H	3.0	36.3	1.0	-46.5	-13.0	-33.5		
3.393	-6.2	H	3.0	35.7	1.0	-40.9	-13.0	-27.9		
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: Project #: Date: Test Engineer: Configuration: Mode:		SONY 14U17929 07/03/14 R. Alegre EUT, AC charger, and Earphone TX, LTE band 4, 20MHz BW, 16QAM								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T145 8449B	Filter 1	Part 27					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 20MHz 16QAM	Low Ch, (1720 MHz)									
	3.440	-18.2	V	3.0	26.4	1.0	-43.7	-13.0	-30.7	
	5.160	-16.5	V	3.0	24.3	1.0	-39.8	-13.0	-26.8	
	6.880	-12.8	V	3.0	23.2	1.0	-35.0	-13.0	-22.0	
	3.440	-20.3	H	3.0	26.4	1.0	-45.7	-13.0	-32.7	
	5.160	-15.2	H	3.0	24.3	1.0	-38.5	-13.0	-25.5	
	6.880	-13.2	H	3.0	23.2	1.0	-35.4	-13.0	-22.4	
	Mid Ch, (1732.5 MHz)									
	3.465	-20.6	V	3.0	26.4	1.0	-46.0	-13.0	-33.0	
	5.198	-16.1	V	3.0	24.3	1.0	-39.4	-13.0	-26.4	
	6.930	-13.3	V	3.0	23.1	1.0	-35.4	-13.0	-22.4	
	3.465	-20.8	H	3.0	26.4	1.0	-46.3	-13.0	-33.3	
	5.198	-15.2	H	3.0	24.3	1.0	-38.5	-13.0	-25.5	
	6.930	-12.0	H	3.0	23.1	1.0	-34.1	-13.0	-21.1	
	High Ch, (1745 MHz)									
	3.490	-20.2	V	3.0	26.4	1.0	-45.6	-13.0	-32.6	
	5.235	-15.9	V	3.0	24.3	1.0	-39.2	-13.0	-26.2	
	6.980	-14.2	V	3.0	23.1	1.0	-36.3	-13.0	-23.3	
3.490	-20.7	H	3.0	26.4	1.0	-46.1	-13.0	-33.1		
5.235	-15.7	H	3.0	24.3	1.0	-39.0	-13.0	-26.0		
6.980	-12.6	H	3.0	23.1	1.0	-34.7	-13.0	-21.7		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		SONY 14U17929 07/03/14 R. Alegre EUT, AC charger, and Earphone TX, LTE band 4, 20MHz BW, QPSK								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T145 8449B	Filter 1	Part 27					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 20MHz QPSK	Low Ch, (1720 MHz)									
	3.440	-17.8	V	3.0	26.4	1.0	-43.2	-13.0	-30.2	
	5.160	-17.3	V	3.0	24.3	1.0	-40.7	-13.0	-27.7	
	6.880	-12.6	V	3.0	23.2	1.0	-34.8	-13.0	-21.8	
	3.440	-20.1	H	3.0	26.4	1.0	-45.6	-13.0	-32.6	
	5.160	-15.0	H	3.0	24.3	1.0	-38.3	-13.0	-25.3	
	6.880	-12.9	H	3.0	23.2	1.0	-35.0	-13.0	-22.0	
	Mid Ch, (1732.5 MHz)									
	3.465	-21.1	V	3.0	26.4	1.0	-46.5	-13.0	-33.5	
	5.198	-15.9	V	3.0	24.3	1.0	-39.2	-13.0	-26.2	
	6.930	-13.8	V	3.0	23.1	1.0	-36.0	-13.0	-23.0	
	3.465	-20.0	H	3.0	26.4	1.0	-45.4	-13.0	-32.4	
	5.198	-16.4	H	3.0	24.3	1.0	-39.7	-13.0	-26.7	
	6.930	-11.7	H	3.0	23.1	1.0	-33.9	-13.0	-20.9	
	High Ch, (1745 MHz)									
	3.490	-19.8	V	3.0	26.4	1.0	-45.2	-13.0	-32.2	
	5.235	-16.0	V	3.0	24.3	1.0	-39.2	-13.0	-26.2	
	6.980	-14.0	V	3.0	23.1	1.0	-36.1	-13.0	-23.1	
3.490	-20.0	H	3.0	26.4	1.0	-45.4	-13.0	-32.4		
5.235	-15.3	H	3.0	24.3	1.0	-38.5	-13.0	-25.5		
6.980	-11.9	H	3.0	23.1	1.0	-34.0	-13.0	-21.0		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		SONY 14U17929 07/03/14 R. Alegre EUT, AC charger, and Earphone TX, LTE band 4, 15MHz BW, 16QAM								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T145 8449B	Filter 1	Part 27					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, (1717.5 MHz)									
	3.435	-17.8	V	3.0	26.5	1.0	-43.3	-13.0	-30.3	
	5.153	-17.0	V	3.0	24.3	1.0	-40.3	-13.0	-27.3	
	6.870	-14.2	V	3.0	23.2	1.0	-36.4	-13.0	-23.4	
	3.435	-20.7	H	3.0	26.5	1.0	-46.1	-13.0	-33.1	
	5.153	-15.2	H	3.0	24.3	1.0	-38.6	-13.0	-25.6	
	6.870	-12.6	H	3.0	23.2	1.0	-34.8	-13.0	-21.8	
	Mid Ch, (1732.5 MHz)									
	3.465	-21.0	V	3.0	26.4	1.0	-46.4	-13.0	-33.4	
	5.198	-15.7	V	3.0	24.3	1.0	-39.0	-13.0	-26.0	
	6.930	-13.5	V	3.0	23.1	1.0	-35.7	-13.0	-22.7	
	3.465	-21.0	H	3.0	26.4	1.0	-46.4	-13.0	-33.4	
	5.198	-14.6	H	3.0	24.3	1.0	-37.9	-13.0	-24.9	
	6.930	-12.8	H	3.0	23.1	1.0	-34.9	-13.0	-21.9	
	High Ch, (1747.5 MHz)									
	3.495	-19.9	V	3.0	26.4	1.0	-45.3	-13.0	-32.3	
	5.243	-16.0	V	3.0	24.3	1.0	-39.2	-13.0	-26.2	
	6.990	-12.6	V	3.0	23.1	1.0	-34.7	-13.0	-21.7	
	3.495	-20.8	H	3.0	26.4	1.0	-46.2	-13.0	-33.2	
	5.243	-15.4	H	3.0	24.3	1.0	-38.6	-13.0	-25.6	
	6.990	-11.7	H	3.0	23.1	1.0	-33.8	-13.0	-20.8	
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		SONY 14U17929 07/03/14 R. Alegre EUT, AC charger, and Earphone TX, LTE band 4, 15MHz BW, QPSK								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T145 8449B	Filter 1	Part 27					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 15MHz QPSK	Low Ch, (1717.5 MHz)									
	3.435	-18.1	V	3.0	26.5	1.0	-43.6	-13.0	-30.6	
	5.153	-15.9	V	3.0	24.3	1.0	-39.2	-13.0	-26.2	
	6.870	-13.7	V	3.0	23.2	1.0	-35.9	-13.0	-22.9	
	3.435	-21.1	H	3.0	26.5	1.0	-46.5	-13.0	-33.5	
	5.153	-15.3	H	3.0	24.3	1.0	-38.6	-13.0	-25.6	
	6.870	-12.9	H	3.0	23.2	1.0	-35.1	-13.0	-22.1	
	Mid Ch, (1732.5 MHz)									
	3.465	-20.7	V	3.0	26.4	1.0	-46.1	-13.0	-33.1	
	5.198	-15.7	V	3.0	24.3	1.0	-39.0	-13.0	-26.0	
	6.930	-13.5	V	3.0	23.1	1.0	-35.7	-13.0	-22.7	
	3.465	-20.8	H	3.0	26.4	1.0	-46.2	-13.0	-33.2	
	5.198	-14.1	H	3.0	24.3	1.0	-37.4	-13.0	-24.4	
	6.930	-12.3	H	3.0	23.1	1.0	-34.4	-13.0	-21.4	
	High Ch, (1747.5 MHz)									
	3.495	-20.6	V	3.0	26.4	1.0	-46.0	-13.0	-33.0	
	5.243	-16.0	V	3.0	24.3	1.0	-39.3	-13.0	-26.3	
	6.990	-13.5	V	3.0	23.1	1.0	-35.6	-13.0	-22.6	
3.495	-20.5	H	3.0	26.4	1.0	-45.9	-13.0	-32.9		
5.243	-15.2	H	3.0	24.3	1.0	-38.4	-13.0	-25.4		
6.990	-11.7	H	3.0	23.1	1.0	-33.8	-13.0	-20.8		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		SONY 14U17929 07/03/14 R. Alegre EUT, AC charger, and Earphone TX, LTE band 4, 10MHz BW, 16QAM								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T145 8449B	Filter 1	Part 27					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 10MHz 16QAM	Low Ch, (1715 MHz)									
	3.430	-18.8	V	3.0	30.4	1.0	-48.3	-13.0	-35.3	
	5.145	-17.2	V	3.0	28.8	1.0	-45.0	-13.0	-32.0	
	6.860	-12.9	V	3.0	27.1	1.0	-39.0	-13.0	-26.0	
	3.430	-20.3	H	3.0	30.4	1.0	-49.7	-13.0	-36.7	
	5.145	-15.7	H	3.0	28.8	1.0	-43.5	-13.0	-30.5	
	6.860	-13.4	H	3.0	27.1	1.0	-39.6	-13.0	-26.6	
	Mid Ch, (1732.5 MHz)									
	3.465	-21.4	V	3.0	30.4	1.0	-50.8	-13.0	-37.8	
	5.198	-16.9	V	3.0	28.7	1.0	-44.6	-13.0	-31.6	
	6.930	-12.6	V	3.0	27.1	1.0	-38.7	-13.0	-25.7	
	3.465	-20.4	H	3.0	30.4	1.0	-49.8	-13.0	-36.8	
	5.198	-16.0	H	3.0	28.7	1.0	-43.7	-13.0	-30.7	
	6.930	-12.2	H	3.0	27.1	1.0	-38.3	-13.0	-25.3	
	High Ch, (1750 MHz)									
	3.500	-20.7	V	3.0	30.4	1.0	-50.1	-13.0	-37.1	
	5.250	-15.5	V	3.0	28.7	1.0	-43.1	-13.0	-30.1	
	7.000	-14.0	V	3.0	27.0	1.0	-40.0	-13.0	-27.0	
3.500	-19.8	H	3.0	30.4	1.0	-49.2	-13.0	-36.2		
5.250	-15.1	H	3.0	28.7	1.0	-42.8	-13.0	-29.8		
7.000	-11.7	H	3.0	27.0	1.0	-37.7	-13.0	-24.7		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		SONY 14U17929 07/03/14 R. Alegre EUT, AC charger, and Earphone TX, LTE band 4, 10MHz BW, QPSK								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T145 8449B	Filter 1	Part 27					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 10MHz QPSK	Low Ch, (1715 MHz)									
	3.430	-18.8	V	3.0	30.4	1.0	-48.2	-13.0	-35.2	
	5.145	-17.4	V	3.0	28.8	1.0	-45.2	-13.0	-32.2	
	6.860	-13.0	V	3.0	27.1	1.0	-39.1	-13.0	-26.1	
	3.430	-20.2	H	3.0	30.4	1.0	-49.6	-13.0	-36.6	
	5.145	-15.6	H	3.0	28.8	1.0	-43.3	-13.0	-30.3	
	6.860	-12.9	H	3.0	27.1	1.0	-39.0	-13.0	-26.0	
	Mid Ch, (1732.5 MHz)									
	3.465	-21.0	V	3.0	30.4	1.0	-50.4	-13.0	-37.4	
	5.198	-16.9	V	3.0	28.7	1.0	-44.6	-13.0	-31.6	
	6.930	-12.6	V	3.0	27.1	1.0	-38.7	-13.0	-25.7	
	3.465	-20.1	H	3.0	30.4	1.0	-49.5	-13.0	-36.5	
	5.198	-16.3	H	3.0	28.7	1.0	-44.0	-13.0	-31.0	
	6.930	-11.4	H	3.0	27.1	1.0	-37.4	-13.0	-24.4	
	High Ch, (1750 MHz)									
	3.500	-20.6	V	3.0	30.4	1.0	-50.0	-13.0	-37.0	
	5.250	-15.7	V	3.0	28.7	1.0	-43.4	-13.0	-30.4	
	7.000	-13.8	V	3.0	27.0	1.0	-39.8	-13.0	-26.8	
3.500	-19.6	H	3.0	30.4	1.0	-49.0	-13.0	-36.0		
5.250	-15.4	H	3.0	28.7	1.0	-43.0	-13.0	-30.0		
7.000	-11.8	H	3.0	27.0	1.0	-37.8	-13.0	-24.8		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		SONY 14U17929 07/03/14 R. Alegre EUT, AC charger, and Earphone TX, LTE band 4, 5MHz BW, 16 QAM								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T145 8449B	Filter 1	Part 27					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 5MHz 16QAM	Low Ch, (1712.5 MHz)									
	3.425	-17.2	V	3.0	30.4	1.0	-46.6	-13.0	-33.6	
	5.138	-17.3	V	3.0	28.8	1.0	-45.1	-13.0	-32.1	
	6.850	-13.0	V	3.0	27.1	1.0	-39.2	-13.0	-26.2	
	3.425	-19.0	H	3.0	30.4	1.0	-48.4	-13.0	-35.4	
	5.138	-17.2	H	3.0	28.8	1.0	-45.0	-13.0	-32.0	
	6.850	-12.8	H	3.0	27.1	1.0	-38.9	-13.0	-25.9	
	Mid Ch, (1732.5 MHz)									
	3.465	-20.1	V	3.0	30.4	1.0	-49.5	-13.0	-36.5	
	5.198	-17.0	V	3.0	28.7	1.0	-44.7	-13.0	-31.7	
	6.930	-13.2	V	3.0	27.1	1.0	-39.3	-13.0	-26.3	
	3.465	-20.9	H	3.0	30.4	1.0	-50.3	-13.0	-37.3	
	5.198	-15.9	H	3.0	28.7	1.0	-43.6	-13.0	-30.6	
	6.930	-11.4	H	3.0	27.1	1.0	-37.4	-13.0	-24.4	
	High Ch, (1752.5 MHz)									
	3.505	-20.7	V	3.0	30.4	1.0	-50.0	-13.0	-37.0	
	5.258	-16.5	V	3.0	28.6	1.0	-44.2	-13.0	-31.2	
	7.010	-11.8	V	3.0	27.0	1.0	-37.8	-13.0	-24.8	
3.505	-19.3	H	3.0	30.4	1.0	-48.6	-13.0	-35.6		
5.258	-16.2	H	3.0	28.6	1.0	-43.9	-13.0	-30.9		
7.010	-11.8	H	3.0	27.0	1.0	-37.7	-13.0	-24.7		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		SONY 14U17929 07/03/14 R. Alegre EUT, AC charger, and Earphone TX, LTE band 4, 5MHz BW, QPSK								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T145 8449B	Filter 1	Part 27					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 5MHz QPSK	Low Ch, (1712.5 MHz)									
	3.425	-17.6	V	3.0	30.4	1.0	-47.1	-13.0	-34.1	
	5.138	-17.9	V	3.0	28.8	1.0	-45.6	-13.0	-32.6	
	6.850	-13.4	V	3.0	27.1	1.0	-39.6	-13.0	-26.6	
	3.425	-19.5	H	3.0	30.4	1.0	-48.9	-13.0	-35.9	
	5.138	-17.3	H	3.0	28.8	1.0	-45.1	-13.0	-32.1	
	6.850	-12.1	H	3.0	27.1	1.0	-38.2	-13.0	-25.2	
	Mid Ch, (1732.5 MHz)									
	3.465	-20.0	V	3.0	30.4	1.0	-49.4	-13.0	-36.4	
	5.198	-16.7	V	3.0	28.7	1.0	-44.4	-13.0	-31.4	
	6.930	-12.8	V	3.0	27.1	1.0	-38.8	-13.0	-25.8	
	3.465	-20.5	H	3.0	30.4	1.0	-49.9	-13.0	-36.9	
	5.198	-16.2	H	3.0	28.7	1.0	-43.9	-13.0	-30.9	
	6.930	-12.3	H	3.0	27.1	1.0	-38.3	-13.0	-25.3	
	High Ch, (1752.5 MHz)									
	3.505	-20.0	V	3.0	30.4	1.0	-49.3	-13.0	-36.3	
	5.258	-17.3	V	3.0	28.6	1.0	-44.9	-13.0	-31.9	
	7.010	-13.1	V	3.0	27.0	1.0	-39.1	-13.0	-26.1	
3.505	-19.0	H	3.0	30.4	1.0	-48.3	-13.0	-35.3		
5.258	-16.4	H	3.0	28.6	1.0	-44.1	-13.0	-31.1		
7.010	-11.8	H	3.0	27.0	1.0	-37.8	-13.0	-24.8		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		SONY 14U17929 07/03/14 R. Alegre EUT, AC charger, and Earphone TX, LTE band 4, 3MHz BW, 16 QAM								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T145 8449B	Filter 1	Part 27					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 3MHz 16QAM	Low Ch, (1711.5 MHz)									
	3.423	-16.9	V	3.0	30.4	1.0	-46.3	-13.0	-33.3	
	5.135	-16.3	V	3.0	28.8	1.0	-44.1	-13.0	-31.1	
	6.846	-13.5	V	3.0	27.1	1.0	-39.7	-13.0	-26.7	
	3.423	-17.3	H	3.0	30.4	1.0	-46.7	-13.0	-33.7	
	5.135	-17.9	H	3.0	28.8	1.0	-45.7	-13.0	-32.7	
	6.846	-12.3	H	3.0	27.1	1.0	-38.5	-13.0	-25.5	
	Mid Ch, (1732.5 MHz)									
	3.465	-20.5	V	3.0	30.4	1.0	-49.9	-13.0	-36.9	
	5.198	-16.3	V	3.0	28.7	1.0	-44.0	-13.0	-31.0	
	6.930	-13.1	V	3.0	27.1	1.0	-39.2	-13.0	-26.2	
	3.465	-21.0	H	3.0	30.4	1.0	-50.4	-13.0	-37.4	
	5.198	-15.9	H	3.0	28.7	1.0	-43.6	-13.0	-30.6	
	6.930	-10.8	H	3.0	27.1	1.0	-36.9	-13.0	-23.9	
	High Ch, (1753.5 MHz)									
	3.507	-18.3	V	3.0	30.4	1.0	-47.6	-13.0	-34.6	
	5.261	-16.7	V	3.0	28.6	1.0	-44.3	-13.0	-31.3	
	7.014	-11.8	V	3.0	27.0	1.0	-37.8	-13.0	-24.8	
	3.507	-17.1	H	3.0	30.4	1.0	-46.5	-13.0	-33.5	
	5.261	-15.3	H	3.0	28.6	1.0	-43.0	-13.0	-30.0	
	7.014	-10.5	H	3.0	27.0	1.0	-36.5	-13.0	-23.5	
	Rev. 03.03.09									

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		SONY 14U17929 07/03/14 R. Alegre EUT, AC charger, and Earphone TX, LTE band 4, 3MHz BW, QPSK								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T145 8449B	Filter 1	Part 27					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 3MHz QPSK	Low Ch, (1711.5 MHz)									
	3.423	-17.9	V	3.0	30.4	1.0	-47.3	-13.0	-34.3	
	5.135	-17.1	V	3.0	28.8	1.0	-44.8	-13.0	-31.8	
	6.846	-13.4	V	3.0	27.1	1.0	-39.5	-13.0	-26.5	
	3.423	-18.0	H	3.0	30.4	1.0	-47.4	-13.0	-34.4	
	5.135	-16.5	H	3.0	28.8	1.0	-44.3	-13.0	-31.3	
	6.846	-12.0	H	3.0	27.1	1.0	-38.1	-13.0	-25.1	
	Mid Ch, (1732.5 MHz)									
	3.465	-18.6	V	3.0	30.4	1.0	-48.0	-13.0	-35.0	
	5.198	-15.6	V	3.0	28.7	1.0	-43.3	-13.0	-30.3	
	6.930	-13.0	V	3.0	27.1	1.0	-39.0	-13.0	-26.0	
	3.465	-21.1	H	3.0	30.4	1.0	-50.5	-13.0	-37.5	
	5.198	-16.2	H	3.0	28.7	1.0	-43.9	-13.0	-30.9	
	6.930	-10.1	H	3.0	27.1	1.0	-36.1	-13.0	-23.1	
	High Ch, (1753.5 MHz)									
	3.507	-19.8	V	3.0	30.4	1.0	-49.2	-13.0	-36.2	
	5.261	-17.3	V	3.0	28.6	1.0	-44.9	-13.0	-31.9	
	7.014	-12.7	V	3.0	27.0	1.0	-38.7	-13.0	-25.7	
3.507	-18.6	H	3.0	30.4	1.0	-48.0	-13.0	-35.0		
5.261	-15.6	H	3.0	28.6	1.0	-43.2	-13.0	-30.2		
7.014	-11.7	H	3.0	27.0	1.0	-37.7	-13.0	-24.7		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:	SONY									
Project #:	14U17929									
Date:	07/03/14									
Test Engineer:	R. Alegre									
Configuration:	EUT, AC charger, and Earphone									
Mode:	TX, LTE band 4, 1.4MHz BW, 16 QAM									
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T145 8449B		Filter 1		Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 1.4MHz 16QAM	Low Ch, (1710.7 MHz)									
	3.421	-15.7	V	3.0	30.4	1.0	-45.1	-13.0	-32.1	
	5.132	-18.0	V	3.0	28.8	1.0	-45.7	-13.0	-32.7	
	6.843	-13.7	V	3.0	27.1	1.0	-39.8	-13.0	-26.8	
	3.421	-15.3	H	3.0	30.4	1.0	-44.7	-13.0	-31.7	
	5.132	-17.0	H	3.0	28.8	1.0	-44.8	-13.0	-31.8	
	6.843	-12.3	H	3.0	27.1	1.0	-38.5	-13.0	-25.5	
	Mid Ch, (1732.5 MHz)									
	3.465	-20.1	V	3.0	30.4	1.0	-49.5	-13.0	-36.5	
	5.198	-16.1	V	3.0	28.7	1.0	-43.8	-13.0	-30.8	
	6.930	-13.0	V	3.0	27.1	1.0	-39.1	-13.0	-26.1	
	3.465	-20.5	H	3.0	30.4	1.0	-49.9	-13.0	-36.9	
	5.198	-16.0	H	3.0	28.7	1.0	-43.7	-13.0	-30.7	
	6.930	-12.3	H	3.0	27.1	1.0	-38.4	-13.0	-25.4	
	High Ch, (1754.3 MHz)									
	3.509	-20.1	V	3.0	30.4	1.0	-49.5	-13.0	-36.5	
	5.263	-16.4	V	3.0	28.6	1.0	-44.1	-13.0	-31.1	
	7.017	-12.2	V	3.0	27.0	1.0	-38.2	-13.0	-25.2	
3.509	-18.8	H	3.0	30.4	1.0	-48.2	-13.0	-35.2		
5.263	-15.9	H	3.0	28.6	1.0	-43.5	-13.0	-30.5		
7.017	-9.7	H	3.0	27.0	1.0	-35.7	-13.0	-22.7		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement											
Company: Project #: Date: Test Engineer: Configuration: Mode:		SONY 14U17929 07/03/14 R. Alegre EUT, AC charger, and Earphone TX, LTE band 4, 1.4MHz BW, QPSK									
		Chamber	Pre-amplifier	Filter	Limit						
		3m Chamber	T145 8449B	Filter 1	Part 27						
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
1.4MHz LTE4 QPSK	Low Ch, (1710.7 MHz)										
		3.421	-15.1	V	3.0	30.4	1.0	-44.5	-13.0	-31.5	
		5.132	-17.1	V	3.0	28.8	1.0	-44.9	-13.0	-31.9	
		6.843	-13.5	V	3.0	27.1	1.0	-39.7	-13.0	-26.7	
		3.421	-16.0	H	3.0	30.4	1.0	-45.4	-13.0	-32.4	
		5.132	-17.1	H	3.0	28.8	1.0	-44.9	-13.0	-31.9	
		6.843	-12.5	H	3.0	27.1	1.0	-38.7	-13.0	-25.7	
		Mid Ch, (1732.5 MHz)									
		3.465	-20.6	V	3.0	30.4	1.0	-50.0	-13.0	-37.0	
		5.198	-16.8	V	3.0	28.7	1.0	-44.5	-13.0	-31.5	
		6.930	-12.7	V	3.0	27.1	1.0	-38.8	-13.0	-25.8	
		3.465	-20.6	H	3.0	30.4	1.0	-50.0	-13.0	-37.0	
		5.198	-17.0	H	3.0	28.7	1.0	-44.7	-13.0	-31.7	
		6.930	-11.9	H	3.0	27.1	1.0	-38.0	-13.0	-25.0	
		High Ch, (1754.3 MHz)									
		3.509	-20.4	V	3.0	30.4	1.0	-49.8	-13.0	-36.8	
	5.263	-17.0	V	3.0	28.6	1.0	-44.7	-13.0	-31.7		
	7.017	-12.1	V	3.0	27.0	1.0	-38.1	-13.0	-25.1		
	3.509	-20.8	H	3.0	30.4	1.0	-50.2	-13.0	-37.2		
	5.263	-15.6	H	3.0	28.6	1.0	-43.2	-13.0	-30.2		
	7.017	-11.5	H	3.0	27.0	1.0	-37.5	-13.0	-24.5		
Rev. 03.03.09											

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony

Project #: 14U17929

Date: 07/03/14

Test Engineer: B.Liu

Configuration: X-pos EUT w/ AC Adaptor

Mode: LTE2 20M 16QAM HARM

Chamber
 3m Chamber

Pre-amplifier
 T34 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
	Low Ch, 1860MHz									
LTE2	3.720	-6.3	V	3.0	35.4	1.0	-40.7	-13.0	-27.7	
	5.580	-2.8	V	3.0	34.7	1.0	-36.5	-13.0	-23.5	
20MHz	7.440	1.6	V	3.0	34.9	1.0	-32.4	-13.0	-19.4	
	3.720	-5.5	H	3.0	35.4	1.0	-39.9	-13.0	-26.9	
16QAM	5.580	-2.1	H	3.0	34.7	1.0	-35.8	-13.0	-22.8	
	7.440	3.4	H	3.0	34.9	1.0	-30.5	-13.0	-17.5	
	Mid Ch, 1880MHz									
	3.760	-6.1	V	3.0	35.3	1.0	-40.5	-13.0	-27.5	
	5.640	-3.2	V	3.0	34.7	1.0	-37.0	-13.0	-24.0	
	7.520	1.9	V	3.0	34.9	1.0	-32.0	-13.0	-19.0	
	3.760	-4.2	H	3.0	35.3	1.0	-38.5	-13.0	-25.5	
	5.640	-2.3	H	3.0	34.7	1.0	-36.0	-13.0	-23.0	
	7.520	3.4	H	3.0	34.9	1.0	-30.5	-13.0	-17.5	
	High Ch, 1900MHz									
	3.800	-4.9	V	3.0	35.3	1.0	-39.2	-13.0	-26.2	
	5.700	-2.7	V	3.0	34.7	1.0	-36.4	-13.0	-23.4	
	7.600	1.9	V	3.0	34.9	1.0	-32.1	-13.0	-19.1	
	3.800	-3.5	H	3.0	35.3	1.0	-37.8	-13.0	-24.8	
	5.700	-1.9	H	3.0	34.7	1.0	-35.6	-13.0	-22.6	
	7.600	3.7	H	3.0	34.9	1.0	-30.3	-13.0	-17.3	

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 #: 14U17929 Date: 07/03/14 Test Engineer: B.Liu Configuration: X-pos EUT w/ AC Adaptor Mode: LTE2 20M QPSK HARM										
Chamber 3m Chamber		Pre-amplifier T34 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 QPSK	Low Ch, 1860MHz									
	3.720	-6.2	V	3.0	35.4	1.0	-40.6	-13.0	-27.6	
	5.580	-3.3	V	3.0	34.7	1.0	-37.1	-13.0	-24.1	
	7.440	1.8	V	3.0	34.9	1.0	-32.1	-13.0	-19.1	
	3.720	-5.3	H	3.0	35.4	1.0	-39.7	-13.0	-26.7	
	5.580	-2.5	H	3.0	34.7	1.0	-36.2	-13.0	-23.2	
	7.440	3.6	H	3.0	34.9	1.0	-30.3	-13.0	-17.3	
	Mid Ch, 1880MHz									
	3.760	-5.8	V	3.0	35.3	1.0	-40.2	-13.0	-27.2	
	5.640	-3.2	V	3.0	34.7	1.0	-36.9	-13.0	-23.9	
	7.520	1.1	V	3.0	34.9	1.0	-32.8	-13.0	-19.8	
	3.760	-4.3	H	3.0	35.3	1.0	-38.6	-13.0	-25.6	
	5.640	-2.6	H	3.0	34.7	1.0	-36.3	-13.0	-23.3	
	7.520	3.1	H	3.0	34.9	1.0	-30.8	-13.0	-17.8	
	High Ch, 1900MHz									
	3.800	-4.1	V	3.0	35.3	1.0	-38.4	-13.0	-25.4	
	5.700	-2.8	V	3.0	34.7	1.0	-36.5	-13.0	-23.5	
	7.600	2.4	V	3.0	34.9	1.0	-31.5	-13.0	-18.5	
3.800	-3.4	H	3.0	35.3	1.0	-37.7	-13.0	-24.7		
5.700	-1.9	H	3.0	34.7	1.0	-35.6	-13.0	-22.6		
7.600	4.1	H	3.0	34.9	1.0	-29.9	-13.0	-16.9		
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 #:	14U17929									
Date:	07/03/14									
Test Engineer:	B.Liu									
Configuration:	X-pos EUT w/ AC Adaptor									
Mode:	LTE2 15M 16QAM HARM									
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		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
LTE2 15MHz 16QAM	Low Ch, 1857.5MHz									
	3.715	-6.2	V	3.0	35.4	1.0	-40.6	-13.0	-27.6	
	5.573	-2.8	V	3.0	34.7	1.0	-36.5	-13.0	-23.5	
	7.430	1.8	V	3.0	34.9	1.0	-32.1	-13.0	-19.1	
	3.715	-5.3	H	3.0	35.4	1.0	-39.7	-13.0	-26.7	
	5.573	-2.4	H	3.0	34.7	1.0	-36.1	-13.0	-23.1	
	7.430	3.7	H	3.0	34.9	1.0	-30.2	-13.0	-17.2	
	Mid Ch, 1880MHz									
	3.760	-4.1	V	3.0	35.3	1.0	-38.4	-13.0	-25.4	
	5.640	-2.7	V	3.0	34.7	1.0	-36.4	-13.0	-23.4	
	7.520	2.4	V	3.0	34.9	1.0	-31.6	-13.0	-18.6	
	3.760	-3.9	H	3.0	35.3	1.0	-38.3	-13.0	-25.3	
	5.640	-2.0	H	3.0	34.7	1.0	-35.8	-13.0	-22.8	
	7.520	3.6	H	3.0	34.9	1.0	-30.4	-13.0	-17.4	
	High Ch, 1902.5MHz									
	3.805	-5.4	V	3.0	35.3	1.0	-39.7	-13.0	-26.7	
	5.706	-2.5	V	3.0	34.7	1.0	-36.3	-13.0	-23.3	
	7.610	2.5	V	3.0	34.9	1.0	-31.5	-13.0	-18.5	
	3.805	-2.2	H	3.0	35.3	1.0	-36.5	-13.0	-23.5	
	5.706	-1.8	H	3.0	34.7	1.0	-35.6	-13.0	-22.6	
	7.610	3.9	H	3.0	34.9	1.0	-30.0	-13.0	-17.0	
	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 #: 14U17929 Date: 07/03/14 Test Engineer: B.Liu Configuration: X-pos EUT w/ AC Adaptor Mode: LTE2 15M QPSK HARM										
Chamber 3m Chamber		Pre-amplifier T34 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 15MHz QPSK	Low Ch, 1857.5MHz									
	3.715	-6.3	V	3.0	35.4	1.0	-40.6	-13.0	-27.6	
	5.573	-2.7	V	3.0	34.7	1.0	-36.5	-13.0	-23.5	
	7.430	2.1	V	3.0	34.9	1.0	-31.9	-13.0	-18.9	
	3.715	-6.0	H	3.0	35.4	1.0	-40.4	-13.0	-27.4	
	5.573	-1.9	H	3.0	34.7	1.0	-35.6	-13.0	-22.6	
	7.430	3.5	H	3.0	34.9	1.0	-30.5	-13.0	-17.5	
	Mid Ch, 1880MHz									
	3.760	-5.7	V	3.0	35.3	1.0	-40.1	-13.0	-27.1	
	5.640	-2.5	V	3.0	34.7	1.0	-36.2	-13.0	-23.2	
	7.520	2.0	V	3.0	34.9	1.0	-31.9	-13.0	-18.9	
	3.760	-3.7	H	3.0	35.3	1.0	-38.0	-13.0	-25.0	
	5.640	-2.0	H	3.0	34.7	1.0	-35.8	-13.0	-22.8	
	7.520	3.3	H	3.0	34.9	1.0	-30.7	-13.0	-17.7	
	High Ch, 1902.5MHz									
	3.805	-5.6	V	3.0	35.3	1.0	-39.9	-13.0	-26.9	
	5.706	-2.0	V	3.0	34.7	1.0	-35.7	-13.0	-22.7	
	7.610	2.6	V	3.0	34.9	1.0	-31.3	-13.0	-18.3	
	3.805	-1.4	H	3.0	35.3	1.0	-35.7	-13.0	-22.7	
	5.706	-1.7	H	3.0	34.7	1.0	-35.4	-13.0	-22.4	
7.610	4.0	H	3.0	34.9	1.0	-30.0	-13.0	-17.0		
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 #: 14U17929 Date: 07/03/14 Test Engineer: B.Liu Configuration: X-pos EUT w/ AC Adaptor Mode: LTE2 10M 16QAM HARM										
Chamber 3m Chamber		Pre-amplifier T34 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 10MHz 16QAM	Low Ch, 1855MHz									
	3.710	-6.0	V	3.0	35.4	1.0	-40.4	-13.0	-27.4	
	5.565	-3.5	V	3.0	34.7	1.0	-37.2	-13.0	-24.2	
	7.420	1.8	V	3.0	34.9	1.0	-32.1	-13.0	-19.1	
	3.710	-6.2	H	3.0	35.4	1.0	-40.6	-13.0	-27.6	
	5.565	-2.0	H	3.0	34.7	1.0	-35.7	-13.0	-22.7	
	7.420	3.4	H	3.0	34.9	1.0	-30.5	-13.0	-17.5	
	Mid Ch, 1880MHz									
	3.760	-3.5	V	3.0	35.3	1.0	-37.9	-13.0	-24.9	
	5.640	-2.9	V	3.0	34.7	1.0	-36.7	-13.0	-23.7	
	7.520	2.0	V	3.0	34.9	1.0	-31.9	-13.0	-18.9	
	3.760	-3.0	H	3.0	35.3	1.0	-37.3	-13.0	-24.3	
	5.640	-2.0	H	3.0	34.7	1.0	-35.8	-13.0	-22.8	
	7.520	3.6	H	3.0	34.9	1.0	-30.3	-13.0	-17.3	
	High Ch, 1905MHz									
	3.810	-5.6	V	3.0	35.3	1.0	-39.9	-13.0	-26.9	
	5.715	-2.8	V	3.0	34.7	1.0	-36.5	-13.0	-23.5	
	7.620	2.6	V	3.0	34.9	1.0	-31.4	-13.0	-18.4	
	3.810	-0.7	H	3.0	35.3	1.0	-35.0	-13.0	-22.0	
	5.715	-1.9	H	3.0	34.7	1.0	-35.7	-13.0	-22.7	
	7.620	4.5	H	3.0	34.9	1.0	-29.4	-13.0	-16.4	
	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 #:	14U17929									
Date:	07/09/14									
Test Engineer:	B.Liu									
Configuration:	X-pos EUT w/ AC Adaptor									
Mode:	LTE2 10M QPSK HARM									
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		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
LTE2 10MHz QPSK	Low Ch, 1855MHz									
	3.710	-4.9	V	3.0	35.4	1.0	-39.3	-13.0	-26.3	
	5.565	-2.1	V	3.0	34.7	1.0	-35.9	-13.0	-22.9	
	7.420	2.2	V	3.0	34.9	1.0	-31.7	-13.0	-18.7	
	3.710	-5.5	H	3.0	35.4	1.0	-39.9	-13.0	-26.9	
	5.565	-1.7	H	3.0	34.7	1.0	-35.5	-13.0	-22.5	
	7.420	3.9	H	3.0	34.9	1.0	-30.1	-13.0	-17.1	
	Mid Ch, 1880MHz									
	3.760	-3.4	V	3.0	35.3	1.0	-37.7	-13.0	-24.7	
	5.640	-2.4	V	3.0	34.7	1.0	-36.1	-13.0	-23.1	
	7.520	2.0	V	3.0	34.9	1.0	-31.9	-13.0	-18.9	
	3.760	-2.9	H	3.0	35.3	1.0	-37.2	-13.0	-24.2	
	5.640	-1.2	H	3.0	34.7	1.0	-34.9	-13.0	-21.9	
	7.520	3.4	H	3.0	34.9	1.0	-30.5	-13.0	-17.5	
	High Ch, 1905MHz									
	3.810	-4.9	V	3.0	35.3	1.0	-39.2	-13.0	-26.2	
	5.715	-2.5	V	3.0	34.7	1.0	-36.3	-13.0	-23.3	
	7.620	3.0	V	3.0	34.9	1.0	-30.9	-13.0	-17.9	
	3.810	0.0	H	3.0	35.3	1.0	-34.3	-13.0	-21.3	
	5.715	-1.6	H	3.0	34.7	1.0	-35.3	-13.0	-22.3	
7.620	4.9	H	3.0	34.9	1.0	-29.1	-13.0	-16.1		
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 #:	14U17929									
Date:	07/03/14									
Test Engineer:	O. Stoelting									
Configuration:	X Position, EUT and AC Adapter									
Mode:	LTE2_5M_16QAM									
Chamber Pre-amplifier Filter Limit 5m Chamber A 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 5MHz 16QAM	Low Ch, 1852.5MHz									
	3.705	-15.7	V	3.0	35.4	1.0	-50.1	-13.0	-37.1	
	5.557	-15.2	V	3.0	34.7	1.0	-49.0	-13.0	-36.0	
	7.410	-15.1	V	3.0	34.9	1.0	-49.0	-13.0	-36.0	
	3.705	-17.6	H	3.0	35.4	1.0	-52.0	-13.0	-39.0	
	5.557	-14.5	H	3.0	34.7	1.0	-48.3	-13.0	-35.3	
	7.410	-13.8	H	3.0	34.9	1.0	-47.7	-13.0	-34.7	
	Mid Ch, 1880.0MHz									
	3.760	-11.2	V	3.0	35.3	1.0	-45.6	-13.0	-32.6	
	5.640	-16.0	V	3.0	34.7	1.0	-49.8	-13.0	-36.8	
	7.520	-14.7	V	3.0	34.9	1.0	-48.6	-13.0	-35.6	
	3.760	-17.5	H	3.0	35.3	1.0	-51.8	-13.0	-38.8	
	5.640	-15.0	H	3.0	34.7	1.0	-48.7	-13.0	-35.7	
	7.520	-13.4	H	3.0	34.9	1.0	-47.3	-13.0	-34.3	
	High Ch, 1907.5 MHz									
	3.815	-13.8	V	3.0	35.3	1.0	-48.1	-13.0	-35.1	
	5.722	-15.7	V	3.0	34.7	1.0	-49.4	-13.0	-36.4	
	7.630	-13.6	V	3.0	34.9	1.0	-47.5	-13.0	-34.5	
	3.815	-16.2	H	3.0	35.3	1.0	-50.5	-13.0	-37.5	
	5.722	-15.1	H	3.0	34.7	1.0	-48.8	-13.0	-35.8	
	7.630	-13.0	H	3.0	34.9	1.0	-46.9	-13.0	-33.9	
	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 #:	14U17929									
Date:	07/03/14									
Test Engineer:	O. Stoelting									
Configuration:	X Position, EUT and AC Adapter									
Mode:	LTE2_5M_QPSK									
Chamber Pre-amplifier Filter Limit 5m Chamber A 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 5MHz QPSK	Low Ch, 1852.5MHz									
	3.705	-15.5	V	3.0	35.4	1.0	-49.9	-13.0	-36.9	
	5.557	-15.8	V	3.0	34.7	1.0	-49.5	-13.0	-36.5	
	7.410	-15.0	V	3.0	34.9	1.0	-48.9	-13.0	-35.9	
	3.705	-17.8	H	3.0	35.4	1.0	-52.2	-13.0	-39.2	
	5.557	-13.9	H	3.0	34.7	1.0	-47.6	-13.0	-34.6	
	7.410	-12.7	H	3.0	34.9	1.0	-46.6	-13.0	-33.6	
	Mid Ch, 1880.0MHz									
	3.760	-12.7	V	3.0	35.3	1.0	-47.0	-13.0	-34.0	
	5.640	-15.9	V	3.0	34.7	1.0	-49.6	-13.0	-36.6	
	7.520	-14.2	V	3.0	34.9	1.0	-48.2	-13.0	-35.2	
	3.760	-16.9	H	3.0	35.3	1.0	-51.3	-13.0	-38.3	
	5.640	-15.7	H	3.0	34.7	1.0	-49.4	-13.0	-36.4	
	7.520	-13.1	H	3.0	34.9	1.0	-47.0	-13.0	-34.0	
	High Ch, 1907.5 MHz									
	3.815	-13.2	V	3.0	35.3	1.0	-47.5	-13.0	-34.5	
	5.722	-16.3	V	3.0	34.7	1.0	-50.0	-13.0	-37.0	
	7.630	-14.0	V	3.0	34.9	1.0	-47.9	-13.0	-34.9	
3.815	-16.7	H	3.0	35.3	1.0	-51.0	-13.0	-38.0		
5.722	-13.9	H	3.0	34.7	1.0	-47.7	-13.0	-34.7		
7.630	-12.9	H	3.0	34.9	1.0	-46.9	-13.0	-33.9		
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 #:	14U17929									
Date:	07/03/14									
Test Engineer:	O. Stoelting									
Configuration:	X Position, EUT and AC Adapter									
Mode:	LTE2_3M_HARM_16QAM									
Chamber Pre-amplifier Filter Limit 5m Chamber A 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 3MHz 16QAM	Low Ch, 1851.5MHz									
	3.703	-17.8	V	3.0	35.4	1.0	-52.2	-13.0	-39.2	
	5.554	-16.0	V	3.0	34.7	1.0	-49.8	-13.0	-36.8	
	7.406	-15.3	V	3.0	34.9	1.0	-49.2	-13.0	-36.2	
	3.703	-18.5	H	3.0	35.4	1.0	-52.9	-13.0	-39.9	
	5.554	-15.2	H	3.0	34.7	1.0	-48.9	-13.0	-35.9	
	7.406	-13.4	H	3.0	34.9	1.0	-47.3	-13.0	-34.3	
	Mid Ch, 1880.0MHz									
	3.760	-16.4	V	3.0	35.3	1.0	-50.8	-13.0	-37.8	
	5.640	-16.0	V	3.0	34.7	1.0	-49.7	-13.0	-36.7	
	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	-14.4	H	3.0	34.7	1.0	-48.1	-13.0	-35.1	
	7.520	-13.6	H	3.0	34.9	1.0	-47.5	-13.0	-34.5	
	High Ch, 1908.5 MHz									
	3.817	-16.5	V	3.0	35.3	1.0	-50.8	-13.0	-37.8	
	5.725	-15.0	V	3.0	34.7	1.0	-48.7	-13.0	-35.7	
	7.634	-13.7	V	3.0	34.9	1.0	-47.6	-13.0	-34.6	
	3.817	-17.1	H	3.0	35.3	1.0	-51.4	-13.0	-38.4	
	5.725	-15.2	H	3.0	34.7	1.0	-48.9	-13.0	-35.9	
	7.634	-12.2	H	3.0	34.9	1.0	-46.2	-13.0	-33.2	
	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 #:	14U17929									
Date:	07/03/14									
Test Engineer:	O. Stoelting									
Configuration:	X Position, EUT and AC Adapter									
Mode:	LTE2_3M_HARM_QPSK									
Chamber Pre-amplifier Filter Limit 5m Chamber A 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 3MHz QPSK	Low Ch, 1851.5MHz									
	3.703	-18.0	V	3.0	35.4	1.0	-52.4	-13.0	-39.4	
	5.554	-15.5	V	3.0	34.7	1.0	-49.2	-13.0	-36.2	
	7.406	-14.6	V	3.0	34.9	1.0	-48.6	-13.0	-35.6	
	3.703	-17.8	H	3.0	35.4	1.0	-52.2	-13.0	-39.2	
	5.554	-14.9	H	3.0	34.7	1.0	-48.6	-13.0	-35.6	
	7.406	-13.5	H	3.0	34.9	1.0	-47.4	-13.0	-34.4	
	Mid Ch, 1880.0MHz									
	3.760	-15.0	V	3.0	35.3	1.0	-49.4	-13.0	-36.4	
	5.640	-16.0	V	3.0	34.7	1.0	-49.8	-13.0	-36.8	
	7.520	-14.0	V	3.0	34.9	1.0	-47.9	-13.0	-34.9	
	3.760	-16.7	H	3.0	35.3	1.0	-51.0	-13.0	-38.0	
	5.640	-15.0	H	3.0	34.7	1.0	-48.7	-13.0	-35.7	
	7.520	-12.8	H	3.0	34.9	1.0	-46.8	-13.0	-33.8	
	High Ch, 1908.5 MHz									
	3.817	-16.8	V	3.0	35.3	1.0	-51.0	-13.0	-38.0	
	5.725	-16.0	V	3.0	34.7	1.0	-49.7	-13.0	-36.7	
	7.634	-14.1	V	3.0	34.9	1.0	-48.1	-13.0	-35.1	
3.817	-16.9	H	3.0	35.3	1.0	-51.2	-13.0	-38.2		
5.725	-15.4	H	3.0	34.7	1.0	-49.2	-13.0	-36.2		
7.634	-13.0	H	3.0	34.9	1.0	-47.0	-13.0	-34.0		
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 #:	14U17929									
Date:	07/03/14									
Test Engineer:	O. Stoelting									
Configuration:	X Position, EUT and AC Adapter									
Mode:	LTE2_1.4M_HARM_16QAM									
Chamber Pre-amplifier Filter Limit 5m Chamber A 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 1.4MHz 16QAM	Low Ch, 1850.7MHz									
	3.702	-19.3	V	3.0	35.4	1.0	-53.7	-13.0	-40.7	
	5.553	-14.6	V	3.0	34.7	1.0	-48.3	-13.0	-35.3	
	7.404	-16.7	V	3.0	34.9	1.0	-50.6	-13.0	-37.6	
	3.702	-19.4	H	3.0	35.4	1.0	-53.8	-13.0	-40.8	
	5.553	-16.8	H	3.0	34.7	1.0	-50.6	-13.0	-37.6	
	7.404	-16.0	H	3.0	34.9	1.0	-50.0	-13.0	-37.0	
	Mid Ch, 1880.0MHz									
	3.760	-15.1	V	3.0	35.3	1.0	-49.4	-13.0	-36.4	
	5.640	-17.6	V	3.0	34.7	1.0	-51.4	-13.0	-38.4	
	7.520	-15.5	V	3.0	34.9	1.0	-49.4	-13.0	-36.4	
	3.760	-18.1	H	3.0	35.3	1.0	-52.5	-13.0	-39.5	
	5.640	-16.5	H	3.0	34.7	1.0	-50.3	-13.0	-37.3	
	7.520	-14.5	H	3.0	34.9	1.0	-48.4	-13.0	-35.4	
	High Ch, 1909.3 MHz									
	3.816	-15.7	V	3.0	35.3	1.0	-50.0	-13.0	-37.0	
	5.724	-16.4	V	3.0	34.7	1.0	-50.1	-13.0	-37.1	
	7.632	-14.0	V	3.0	34.9	1.0	-48.0	-13.0	-35.0	
	3.816	-18.3	H	3.0	35.3	1.0	-52.6	-13.0	-39.6	
	5.724	-16.5	H	3.0	34.7	1.0	-50.2	-13.0	-37.2	
	7.632	-13.0	H	3.0	34.9	1.0	-47.0	-13.0	-34.0	
	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 #:	14U17929									
Date:	07/03/14									
Test Engineer:	O. Stoelting									
Configuration:	X Position, EUT and AC Adapter									
Mode:	LTE2_1.4M_HARM_QPSK									
Chamber Pre-amplifier Filter Limit 5m Chamber A 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 1.4MHz QPSK	Low Ch, 1850.7MHz									
	3.702	-19.3	V	3.0	35.4	1.0	-53.7	-13.0	-40.7	
	5.553	-13.9	V	3.0	34.7	1.0	-47.6	-13.0	-34.6	
	7.404	-16.0	V	3.0	34.9	1.0	-49.9	-13.0	-36.9	
	3.702	-19.3	H	3.0	35.4	1.0	-53.7	-13.0	-40.7	
	5.553	-16.5	H	3.0	34.7	1.0	-50.3	-13.0	-37.3	
	7.404	-15.2	H	3.0	34.9	1.0	-49.1	-13.0	-36.1	
	Mid Ch, 1880.0MHz									
	3.760	-14.2	V	3.0	35.3	1.0	-48.5	-13.0	-35.5	
	5.640	-17.2	V	3.0	34.7	1.0	-50.9	-13.0	-37.9	
	7.520	-15.6	V	3.0	34.9	1.0	-49.5	-13.0	-36.5	
	3.760	-16.3	H	3.0	35.3	1.0	-50.6	-13.0	-37.6	
5.640	-16.3	H	3.0	34.7	1.0	-50.1	-13.0	-37.1		
7.520	-14.5	H	3.0	34.9	1.0	-48.5	-13.0	-35.5		
High Ch, 1909.3 MHz										
3.816	-16.2	V	3.0	35.3	1.0	-50.4	-13.0	-37.4		
5.724	-16.3	V	3.0	34.7	1.0	-50.0	-13.0	-37.0		
7.632	-15.0	V	3.0	34.9	1.0	-48.9	-13.0	-35.9		
3.816	-17.6	H	3.0	35.3	1.0	-51.9	-13.0	-38.9		
5.724	-14.8	H	3.0	34.7	1.0	-48.6	-13.0	-35.6		
7.632	-14.0	H	3.0	34.9	1.0	-47.9	-13.0	-34.9		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										