

UAT QPSK EIRP POWER FOR LTE BAND 2 (3.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/21/14							
Test Engineer:		Macie							
Configuration:		EUT Only							
Mode:		LTE Band 2, 3MHz 16QAM							
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D		2.5 HP Filter		Part 24			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1851.5MHz)									
3.703	-9.8	H	3.0	38.0	1.0	-46.9	-13.0	-33.9	
5.555	-14.3	H	3.0	37.4	1.0	-50.6	-13.0	-37.6	
3.703	-14.8	V	3.0	38.0	1.0	-51.8	-13.0	-38.8	
5.555	-14.0	V	3.0	37.4	1.0	-50.3	-13.0	-37.3	
Mid Channel (1880MHz)									
3.760	-11.7	H	3.0	38.0	1.0	-48.7	-13.0	-35.7	
5.640	-16.1	H	3.0	37.3	1.0	-52.5	-13.0	-39.5	
3.760	-14.6	V	3.0	38.0	1.0	-51.6	-13.0	-38.6	
5.640	-15.1	V	3.0	37.3	1.0	-51.5	-13.0	-38.5	
High Channel (1908.5MHz)									
3.817	-6.1	H	3.0	37.9	1.0	-43.0	-13.0	-30.0	
5.726	-12.0	H	3.0	37.3	1.0	-48.4	-13.0	-35.4	
3.817	-10.6	V	3.0	37.9	1.0	-47.6	-13.0	-34.6	
5.726	-15.2	V	3.0	37.3	1.0	-51.5	-13.0	-38.5	
Rev. 03.03.14									

UAT 16QAM EIRP POWER FOR LTE BAND 2 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Macie
Configuration: EUT Only
Mode: LTE Band 2, 3MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D	2.5 HP Filter	Part 24						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1851.5MHz)									
3.703	9.8	H	3.0	38.0	1.0	46.9	-13.0	-33.9	
5.555	-14.3	H	3.0	37.4	1.0	-50.6	-13.0	-37.6	
3.703	-14.8	V	3.0	38.0	1.0	51.8	-13.0	-38.8	
5.555	-14.0	V	3.0	37.4	1.0	-50.3	-13.0	-37.3	
Mid Channel (1880MHz)									
3.760	-11.7	H	3.0	38.0	1.0	48.7	-13.0	-35.7	
5.640	-16.1	H	3.0	37.3	1.0	-52.5	-13.0	-39.5	
3.760	-14.6	V	3.0	38.0	1.0	51.6	-13.0	-38.6	
5.640	-15.1	V	3.0	37.3	1.0	-51.5	-13.0	-38.5	
High Channel (1908.5MHz)									
3.817	-6.1	H	3.0	37.9	1.0	43.0	-13.0	-30.0	
5.726	-12.0	H	3.0	37.3	1.0	48.4	-13.0	-35.4	
3.817	-10.6	V	3.0	37.9	1.0	47.6	-13.0	-34.6	
5.726	-15.2	V	3.0	37.3	1.0	-51.5	-13.0	-38.5	

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UAT QPSK EIRP POWER FOR LTE BAND 2 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/21/14							
Test Engineer:		Macie							
Configuration:		EUT Only							
Mode:		LTE Band 2, 5MHz QPSK							
<u>Test Equipment:</u> Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D		2.5 HP Filter		Part 24			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.5MHz)									
3.705	-12.4	H	3.0	38.0	1.0	49.4	-13.0	-36.4	
5.558	-13.3	H	3.0	37.4	1.0	49.7	-13.0	-36.7	
3.705	-10.8	V	3.0	38.0	1.0	47.8	-13.0	-34.8	
5.558	-13.0	V	3.0	37.4	1.0	49.4	-13.0	-36.4	
Mid Channel (1880MHz)									
3.760	8.7	H	3.0	38.0	1.0	45.7	-13.0	-32.7	
5.640	-10.2	H	3.0	37.3	1.0	46.6	-13.0	-33.6	
3.760	9.4	V	3.0	38.0	1.0	46.4	-13.0	-33.4	
5.640	-9.9	V	3.0	37.3	1.0	46.2	-13.0	-33.2	
High Channel (1907.5MHz)									
3.815	-11.5	H	3.0	37.9	1.0	48.5	-13.0	-35.5	
5.723	-11.6	H	3.0	37.3	1.0	48.0	-13.0	-35.0	
3.815	-11.7	V	3.0	37.9	1.0	48.7	-13.0	-35.7	
5.723	-11.8	V	3.0	37.3	1.0	48.1	-13.0	-35.1	

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UAT 16QAM EIRP POWER FOR LTE BAND 2 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Company: Project #: 14U17676 Date: 06/21/14 Test Engineer: Macie Configuration: EUT Only Mode: LTE Band 2, 5MHz 16QAM									
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D		2.5 HP Filter		Part 24			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.5MHz)									
3.705	-12.8	H	3.0	38.0	1.0	.49.8	-13.0	-36.8	
5.558	-14.3	H	3.0	37.4	1.0	.50.7	-13.0	-37.7	
3.705	-10.8	V	3.0	38.0	1.0	.47.8	-13.0	-34.8	
5.558	-13.1	V	3.0	37.4	1.0	.49.5	-13.0	-36.5	
Mid Channel (1880MHz)									
3.760	-9.9	H	3.0	38.0	1.0	.46.9	-13.0	-33.9	
5.640	-11.8	H	3.0	37.3	1.0	.48.1	-13.0	-35.1	
3.760	-11.6	V	3.0	38.0	1.0	.48.6	-13.0	-35.6	
5.640	-12.6	V	3.0	37.3	1.0	.49.0	-13.0	-36.0	
High Channel (1907.5MHz)									
3.815	-12.7	H	3.0	37.9	1.0	.49.6	-13.0	-36.6	
5.723	-12.2	H	3.0	37.3	1.0	.48.5	-13.0	-35.5	
3.815	-13.3	V	3.0	37.9	1.0	.50.2	-13.0	-37.2	
5.723	-13.7	V	3.0	37.3	1.0	.50.0	-13.0	-37.0	

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UAT QPSK EIRP POWER FOR LTE BAND 2 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Macie
Configuration: EUT Only
Mode: LTE Band 2, 10MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D	2.5 HP Filter	Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1855MHz)									
3.710	-8.4	H	3.0	38.0	1.0	-45.4	-13.0	-32.4	
5.565	-11.2	H	3.0	37.4	1.0	-47.6	-13.0	-34.6	
3.710	-8.5	V	3.0	38.0	1.0	-45.6	-13.0	-32.6	
5.565	-13.1	V	3.0	37.4	1.0	-49.5	-13.0	-36.5	
Mid Channel (1880MHz)									
3.760	-9.8	H	3.0	38.0	1.0	-46.8	-13.0	-33.8	
5.640	-12.1	H	3.0	37.3	1.0	-48.4	-13.0	-35.4	
3.760	-12.8	V	3.0	38.0	1.0	-49.8	-13.0	-36.8	
5.640	-12.8	V	3.0	37.3	1.0	-49.1	-13.0	-36.1	
High Channel (1905MHz)									
3.810	-12.8	H	3.0	37.9	1.0	-49.8	-13.0	-36.8	
5.715	-11.5	H	3.0	37.3	1.0	-47.8	-13.0	-34.8	
3.810	-13.8	V	3.0	37.9	1.0	-50.7	-13.0	-37.7	
5.715	-12.0	V	3.0	37.3	1.0	-48.4	-13.0	-35.4	

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UAT 16QAM EIRP POWER FOR LTE BAND 2 (10.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/21/14							
Test Engineer:		Macie							
Configuration:		EUT Only							
Mode:		LTE Band 2, 10MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D		2.5 HP Filter		Part 24			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1855MHz)									
3.710	-9.0	H	3.0	38.0	1.0	-46.1	-13.0	-33.1	
5.565	-13.1	H	3.0	37.4	1.0	-49.5	-13.0	-36.5	
3.710	-9.7	V	3.0	38.0	1.0	-46.8	-13.0	-33.8	
5.565	-13.7	V	3.0	37.4	1.0	-50.1	-13.0	-37.1	
Mid Channel (1880MHz)									
3.760	-11.3	H	3.0	38.0	1.0	-48.3	-13.0	-35.3	
5.640	-13.4	H	3.0	37.3	1.0	-49.7	-13.0	-36.7	
3.760	-14.3	V	3.0	38.0	1.0	-51.3	-13.0	-38.3	
5.640	-13.9	V	3.0	37.3	1.0	-50.2	-13.0	-37.2	
High Channel (1905MHz)									
3.810	-14.0	H	3.0	37.9	1.0	-50.9	-13.0	-37.9	
5.715	-12.3	H	3.0	37.3	1.0	-48.7	-13.0	-35.7	
3.810	-14.3	V	3.0	37.9	1.0	-51.2	-13.0	-38.2	
5.715	-13.0	V	3.0	37.3	1.0	-49.3	-13.0	-36.3	

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UAT QPSK EIRP POWER FOR LTE BAND 2 (15.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Macie
Configuration: EUT Only
Mode: LTE Band 2, 15MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D		Part 24						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1857.5MHz)									
3.715	-11.9	H	3.0	38.0	1.0	-49.0	-13.0	-36.0	
5.573	-14.0	H	3.0	37.4	1.0	-50.3	-13.0	-37.3	
3.715	-14.3	V	3.0	38.0	1.0	-51.4	-13.0	-38.4	
5.573	-14.6	V	3.0	37.4	1.0	-50.9	-13.0	-37.9	
Mid Channel (1880MHz)									
3.760	-12.5	H	3.0	38.0	1.0	-49.5	-13.0	-36.5	
5.640	-14.0	H	3.0	37.3	1.0	-50.4	-13.0	-37.4	
3.760	-12.9	V	3.0	38.0	1.0	-49.9	-13.0	-36.9	
5.640	-14.5	V	3.0	37.3	1.0	-50.8	-13.0	-37.8	
High Channel (1902.5MHz)									
3.805	-14.3	H	3.0	38.0	1.0	-51.3	-13.0	-38.3	
5.708	-14.8	H	3.0	37.3	1.0	-51.2	-13.0	-38.2	
3.805	-15.3	V	3.0	38.0	1.0	-52.3	-13.0	-39.3	
5.708	-14.8	V	3.0	37.3	1.0	-51.1	-13.0	-38.1	

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UAT 16QAM EIRP POWER FOR LTE BAND 2 (15.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/21/14							
Test Engineer:		Macie							
Configuration:		EUT Only							
Mode:		LTE Band 2, 15MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D				Part 24			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1857.5MHz)									
3.715	-13.7	H	3.0	38.0	1.0	-50.8	-13.0	-37.8	
5.573	-14.4	H	3.0	37.4	1.0	-50.8	-13.0	-37.8	
3.715	-17.0	V	3.0	38.0	1.0	-54.0	-13.0	-41.0	
5.573	-15.9	V	3.0	37.4	1.0	-52.2	-13.0	-39.2	
Mid Channel (1880MHz)									
3.760	-16.8	H	3.0	38.0	1.0	-53.8	-13.0	-40.8	
5.640	-15.2	H	3.0	37.3	1.0	-51.6	-13.0	-38.6	
3.760	-13.9	V	3.0	38.0	1.0	-50.9	-13.0	-37.9	
5.640	-15.3	V	3.0	37.3	1.0	-51.7	-13.0	-38.7	
High Channel (1902.5MHz)									
3.805	-15.1	H	3.0	38.0	1.0	-52.1	-13.0	-39.1	
5.708	-15.4	H	3.0	37.3	1.0	-51.8	-13.0	-38.8	
3.805	-16.6	V	3.0	38.0	1.0	-53.6	-13.0	-40.6	
5.708	-15.1	V	3.0	37.3	1.0	-51.5	-13.0	-38.5	

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UAT QPSK EIRP POWER FOR LTE BAND 2 (20.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/21/14							
Test Engineer:		Macie							
Configuration:		EUT Only							
Mode:		LTE Band 2, 20MHz QPSK							
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D				Part 24			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1860MHz)									
3.720	-10.9	H	3.0	38.0	1.0	47.9	-13.0	-34.9	
5.580	-10.7	H	3.0	37.4	1.0	47.1	-13.0	-34.1	
3.720	-11.9	V	3.0	38.0	1.0	49.0	-13.0	-36.0	
5.580	-11.9	V	3.0	37.4	1.0	48.2	-13.0	-35.2	
Mid Channel (1880MHz)									
3.760	-11.8	H	3.0	38.0	1.0	48.8	-13.0	-35.8	
5.640	-11.0	H	3.0	37.3	1.0	47.3	-13.0	-34.3	
3.760	-11.6	V	3.0	38.0	1.0	48.6	-13.0	-35.6	
5.640	-11.8	V	3.0	37.3	1.0	48.1	-13.0	-35.1	
High Channel (1900MHz)									
3.800	-10.7	H	3.0	38.0	1.0	47.7	-13.0	-34.7	
5.700	-11.4	H	3.0	37.3	1.0	47.7	-13.0	-34.7	
3.800	-12.7	V	3.0	38.0	1.0	49.6	-13.0	-36.6	
5.700	-12.1	V	3.0	37.3	1.0	48.4	-13.0	-35.4	
Rev. 03.03.14									

UAT 16QAM EIRP POWER FOR LTE BAND 2 (20.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/21/14							
Test Engineer:		Macie							
Configuration:		EUT Only							
Mode:		LTE Band 2, 20MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D				Part 24			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1860MHz)									
3.720	-12.0	H	3.0	38.0	1.0	49.1	-13.0	-36.1	
5.580	-11.7	H	3.0	37.4	1.0	48.0	-13.0	-35.0	
3.720	-13.2	V	3.0	38.0	1.0	50.2	-13.0	-37.2	
5.580	-15.4	V	3.0	37.4	1.0	51.8	-13.0	-38.8	
Mid Channel (1880MHz)									
3.760	-13.2	H	3.0	38.0	1.0	50.2	-13.0	-37.2	
5.640	-12.5	H	3.0	37.3	1.0	48.8	-13.0	-35.8	
3.760	-13.0	V	3.0	38.0	1.0	50.0	-13.0	-37.0	
5.640	-12.8	V	3.0	37.3	1.0	49.1	-13.0	-36.1	
High Channel (1900MHz)									
3.800	-12.5	H	3.0	38.0	1.0	49.5	-13.0	-36.5	
5.700	-12.8	H	3.0	37.3	1.0	49.2	-13.0	-36.2	
3.800	-13.4	V	3.0	38.0	1.0	50.4	-13.0	-37.4	
5.700	-12.9	V	3.0	37.3	1.0	49.2	-13.0	-36.2	

Rev. 03.03.14

9.3.2. LTE BAND 4

LAT QPSK EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement																	
Project #:		14U17676															
Date:		06/20/14															
Test Engineer:		Macie															
Configuration:		EUT only															
Mode:		LTE Band 4, 1.4MHz QPSK															
<u>Test Equipment:</u>																	
Substitution: Horn T59 Substitution, and 8ft SMA Cable																	
Chamber			Pre-amplifier			Filter		Limit									
3m Chamber D			3m Chamber D			2.5G HP Filter		Part 27									
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes								
<u>Low Channel (1710.7MHz)</u>																	
3.421	-14.3	H	3.0	38.3	1.0	-51.6	-13.0	-38.6									
5.132	-6.2	H	3.0	37.5	1.0	-42.6	-13.0	-29.6									
3.421	-14.3	V	3.0	38.3	1.0	-51.6	-13.0	-38.6									
5.132	-10.6	V	3.0	37.5	1.0	-47.1	-13.0	-34.1									
<u>Mid Channel (1732.5MHz)</u>																	
3.465	-14.4	H	3.0	38.3	1.0	-51.7	-13.0	-38.7									
5.198	-6.2	H	3.0	37.5	1.0	-42.7	-13.0	-29.7									
3.465	-14.4	V	3.0	38.3	1.0	-51.7	-13.0	-38.7									
5.198	-10.9	V	3.0	37.5	1.0	-47.4	-13.0	-34.4									
<u>High Channel (1754.3MHz)</u>																	
3.509	-13.7	H	3.0	38.2	1.0	-50.9	-13.0	-37.9									
5.263	-6.1	H	3.0	37.4	1.0	-42.5	-13.0	-29.5									
3.509	-14.1	V	3.0	38.2	1.0	-51.3	-13.0	-38.3									
5.263	-10.6	V	3.0	37.4	1.0	-47.0	-13.0	-34.0									
Rev. 03.03.14																	

LAT 16QAM EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 1.4MHz 16QAM							
<u>Test Equipment:</u> Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D		2.5G HP Filter		Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1710.7MHz)									
3.421	-16.6	H	3.0	38.3	1.0	-53.9	-13.0	-40.9	
3.132	-7.7	H	3.0	37.5	1.0	-44.2	-13.0	-31.2	
3.421	-15.9	V	3.0	38.3	1.0	-53.2	-13.0	-40.2	
5.132	-12.0	V	3.0	37.5	1.0	-48.5	-13.0	-35.5	
Mid Channel (1732.5MHz)									
3.465	-16.2	H	3.0	38.3	1.0	-53.5	-13.0	-40.5	
5.198	-7.6	H	3.0	37.5	1.0	-44.1	-13.0	-31.1	
3.465	-16.3	V	3.0	38.3	1.0	-53.5	-13.0	-40.5	
5.198	-13.0	V	3.0	37.5	1.0	-49.5	-13.0	-36.5	
High Channel (1754.3MHz)									
3.509	-14.8	H	3.0	38.2	1.0	-52.0	-13.0	-39.0	
5.263	-7.3	H	3.0	37.4	1.0	-43.7	-13.0	-30.7	
3.509	-15.9	V	3.0	38.2	1.0	-53.1	-13.0	-40.1	
5.263	-12.5	V	3.0	37.4	1.0	-48.9	-13.0	-35.9	
Rev. 03.03.14									

LAT QPSK EIRP POWER FOR LTE BAND 4 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 4, 3MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D	2.5G HP Filter	Part 27						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1711.5MHz)									
3.42	-14.5	H	3.0	38.3	1.0	-51.8	-13.0	-38.8	
5.13	-4.2	H	3.0	37.5	1.0	-40.7	-13.0	-27.7	
3.42	-15.3	V	3.0	38.3	1.0	-52.6	-13.0	-39.6	
5.13	-8.4	V	3.0	37.5	1.0	-44.8	-13.0	-31.8	
Mid Channel (1732.5MHz)									
3.47	-13.6	H	3.0	38.3	1.0	-50.9	-13.0	-37.9	
5.20	-4.7	H	3.0	37.5	1.0	-41.2	-13.0	-28.2	
3.47	-13.7	V	3.0	38.3	1.0	-51.0	-13.0	-38.0	
5.20	-11.7	V	3.0	37.5	1.0	-48.2	-13.0	-35.2	
High Channel (1753.5MHz)									
3.51	-12.8	H	3.0	38.2	1.0	-50.0	-13.0	-37.0	
5.26	-5.6	H	3.0	37.4	1.0	-42.1	-13.0	-29.1	
3.51	-14.4	V	3.0	38.2	1.0	-51.6	-13.0	-38.6	
5.26	-12.6	V	3.0	37.4	1.0	-49.0	-13.0	-36.0	

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LAT 16QAM EIRP POWER FOR LTE BAND 4 (3.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement																	
Project #:		14U17676															
Date:		06/20/14															
Test Engineer:		Macie															
Configuration:		EUT only															
Mode:		LTE Band 4, 3MHz 16QAM															
<u>Test Equipment:</u>																	
Substitution: Horn T59 Substitution, and 8ft SMA Cable																	
Chamber		Pre-amplifier		Filter		Limit											
3m Chamber D		3m Chamber D		2.5G HP Filter		Part 27											
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes								
Low Channel (1711.5MHz)																	
3.423	-15.7	H	3.0	38.3	1.0	53.0	-13.0	-40.0									
5.135	-6.0	H	3.0	37.5	1.0	42.5	-13.0	-29.5									
3.423	-17.2	V	3.0	38.3	1.0	54.5	-13.0	-41.5									
5.135	-8.0	V	3.0	37.5	1.0	44.5	-13.0	-31.5									
Mid Channel (1732.5MHz)																	
3.465	-14.7	H	3.0	38.3	1.0	52.0	-13.0	-39.0									
5.198	-6.0	H	3.0	37.5	1.0	42.4	-13.0	-29.4									
3.465	-15.2	V	3.0	38.3	1.0	52.5	-13.0	-39.5									
5.198	-13.3	V	3.0	37.5	1.0	49.8	-13.0	-36.8									
High Channel (1753.5MHz)																	
3.507	-14.4	H	3.0	38.2	1.0	51.6	-13.0	-38.6									
5.261	-7.0	H	3.0	37.4	1.0	43.4	-13.0	-30.4									
3.507	-15.8	V	3.0	38.2	1.0	53.0	-13.0	-40.0									
5.261	-13.8	V	3.0	37.4	1.0	50.3	-13.0	-37.3									
Rev. 03.03.14																	

LAT QPSK EIRP POWER FOR LTE BAND 4 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 5MHz QPSK							
<u>Test Equipment:</u> Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D		2.5G HP Filter		Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1712.5MHz)									
3.425	4.6	H	3.0	38.3	1.0	41.9	-13.0	-28.9	
5.138	-3.8	H	3.0	37.5	1.0	40.3	-13.0	-27.3	
3.425	4.7	V	3.0	38.3	1.0	42.0	-13.0	-29.0	
5.138	-6.5	V	3.0	37.5	1.0	43.0	-13.0	-30.0	
Mid Channel (1732.5MHz)									
3.465	4.8	H	3.0	38.3	1.0	42.0	-13.0	-29.0	
5.198	-3.1	H	3.0	37.5	1.0	39.6	-13.0	-26.6	
3.465	4.2	V	3.0	38.3	1.0	41.4	-13.0	-28.4	
5.198	-3.9	V	3.0	37.5	1.0	40.3	-13.0	-27.3	
High Channel (1752.5MHz)									
3.505	4.9	H	3.0	38.2	1.0	42.2	-13.0	-29.2	
5.258	-2.9	H	3.0	37.4	1.0	39.3	-13.0	-26.3	
3.505	-6.6	V	3.0	38.2	1.0	43.8	-13.0	-30.8	
5.258	-6.2	V	3.0	37.4	1.0	42.6	-13.0	-29.6	
Rev. 03.03.14									

LAT 16QAM EIRP POWER FOR LTE BAND 4 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 5MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber			Pre-amplifier		Filter		Limit		
3m Chamber D	3m Chamber D	2.5G HP Filter	Part 27						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1712.5MHz)									
3.425	-4.7	H	3.0	38.3	1.0	-42.0	-13.0	-29.0	
5.138	-4.4	H	3.0	37.5	1.0	-40.9	-13.0	-27.9	
3.425	-4.6	V	3.0	38.3	1.0	-41.9	-13.0	-28.9	
5.138	-6.4	V	3.0	37.5	1.0	-42.9	-13.0	-29.9	
Mid Channel (1732.5MHz)									
3.465	-4.8	H	3.0	38.3	1.0	-42.0	-13.0	-29.0	
5.198	-3.2	H	3.0	37.5	1.0	-39.7	-13.0	-26.7	
3.465	-4.6	V	3.0	38.3	1.0	-41.9	-13.0	-28.9	
5.198	-4.4	V	3.0	37.5	1.0	-40.9	-13.0	-27.9	
High Channel (1752.5MHz)									
3.505	-5.1	H	3.0	38.2	1.0	-42.4	-13.0	-29.4	
5.258	-2.9	H	3.0	37.4	1.0	-39.3	-13.0	-26.3	
3.505	-6.1	V	3.0	38.2	1.0	-43.3	-13.0	-30.3	
5.258	-6.2	V	3.0	37.4	1.0	-42.7	-13.0	-29.7	

Rev. 03.03.14

LAT QPSK EIRP POWER FOR LTE BAND 4 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 4, 10MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F	2.5G HP Filter	Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1715MHz)									
3.430	-7.7	H	3.0	36.4	1.0	-43.1	-13.0	-30.1	
5.145	-4.9	H	3.0	35.5	1.0	-39.4	-13.0	-26.4	
3.430	-8.2	V	3.0	36.4	1.0	-43.6	-13.0	-30.6	
5.145	-5.8	V	3.0	35.5	1.0	-40.3	-13.0	-27.3	
Mid Channel (1732.5MHz)									
3.465	-6.7	H	3.0	36.4	1.0	-42.0	-13.0	-29.0	
5.198	-4.7	H	3.0	35.5	1.0	-39.2	-13.0	-26.2	
3.465	-7.1	V	3.0	36.4	1.0	-42.5	-13.0	-29.5	
5.198	-4.8	V	3.0	35.5	1.0	-39.2	-13.0	-26.2	
High Channel (1750MHz)									
3.500	-6.8	H	3.0	36.4	1.0	-42.1	-13.0	-29.1	
5.250	-5.2	H	3.0	35.5	1.0	-39.7	-13.0	-26.7	
3.500	-7.0	V	3.0	36.4	1.0	-42.4	-13.0	-29.4	
5.250	-4.6	V	3.0	35.5	1.0	-39.1	-13.0	-26.1	

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LAT 16QAM EIRP POWER FOR LTE BAND 4 (10.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 10MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber			Pre-amplifier		Filter		Limit		
3m Chamber F	3m Chamber F	2.5G HP Filter	Part 27						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1715MHz)									
3.430	-7.7	H	3.0	36.4	1.0	-43.1	-13.0	-30.1	
5.145	-5.1	H	3.0	35.5	1.0	-39.6	-13.0	-26.6	
3.430	-8.5	V	3.0	36.4	1.0	-43.9	-13.0	-30.9	
5.145	-5.8	V	3.0	35.5	1.0	-40.3	-13.0	-27.3	
Mid Channel (1732.5MHz)									
3.465	-6.8	H	3.0	36.4	1.0	-42.2	-13.0	-29.2	
5.198	-4.8	H	3.0	35.5	1.0	-39.3	-13.0	-26.3	
3.465	-7.3	V	3.0	36.4	1.0	-42.7	-13.0	-29.7	
5.198	-5.2	V	3.0	35.5	1.0	-39.7	-13.0	-26.7	
High Channel (1750MHz)									
3.500	-6.9	H	3.0	36.4	1.0	-42.2	-13.0	-29.2	
5.250	-6.2	H	3.0	35.5	1.0	-40.7	-13.0	-27.7	
3.500	-7.3	V	3.0	36.4	1.0	-42.6	-13.0	-29.6	
5.250	-4.8	V	3.0	35.5	1.0	-39.3	-13.0	-26.3	

Rev. 03.03.14

LAT QPSK EIRP POWER FOR LTE BAND 4 (15.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 15MHz QPSK							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D		2.5G HP Filter		Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1717.5MHz)									
3.435	-9.6	H	3.0	38.3	1.0	46.9	-13.0	-33.9	
5.153	-4.8	H	3.0	37.5	1.0	41.3	-13.0	-28.3	
3.435	-9.2	V	3.0	38.3	1.0	46.5	-13.0	-33.5	
5.153	-5.1	V	3.0	37.5	1.0	41.6	-13.0	-28.6	
Mid Channel (1732.5MHz)									
3.465	-8.8	H	3.0	38.3	1.0	46.0	-13.0	-33.0	
5.198	-5.6	H	3.0	37.5	1.0	42.0	-13.0	-29.0	
3.470	-8.5	V	3.0	38.3	1.0	45.8	-13.0	-32.8	
5.198	-6.0	V	3.0	37.5	1.0	42.4	-13.0	-29.4	
High Channel (1747.5MHz)									
3.495	-7.6	H	3.0	38.2	1.0	44.9	-13.0	-31.9	
5.243	-5.7	H	3.0	37.4	1.0	42.1	-13.0	-29.1	
3.495	-8.7	V	3.0	38.2	1.0	45.9	-13.0	-32.9	
5.243	-5.4	V	3.0	37.4	1.0	41.9	-13.0	-28.9	
Rev. 03.03.14									

LAT 16QAM EIRP POWER FOR LTE BAND 4 (15.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 15MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber			Pre-amplifier		Filter		Limit		
3m Chamber D			3m Chamber D		2.5G HP Filter		Part 27		
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1717.5MHz)									
3.435	9.6	H	3.0	38.3	1.0	46.9	-13.0	-33.9	
5.153	6.8	H	3.0	37.5	1.0	43.3	-13.0	-30.3	
3.435	9.3	V	3.0	38.3	1.0	46.6	-13.0	-33.6	
5.153	5.5	V	3.0	37.5	1.0	41.9	-13.0	-28.9	
Mid Channel (1732.5MHz)									
3.465	8.5	H	3.0	38.3	1.0	45.8	-13.0	-32.8	
5.198	5.3	H	3.0	37.5	1.0	41.7	-13.0	-28.7	
3.470	8.2	V	3.0	38.3	1.0	45.4	-13.0	-32.4	
5.198	5.8	V	3.0	37.5	1.0	42.3	-13.0	-29.3	
High Channel (1747.5MHz)									
3.495	7.8	H	3.0	38.2	1.0	45.0	-13.0	-32.0	
5.243	5.6	H	3.0	37.4	1.0	42.0	-13.0	-29.0	
3.495	8.8	V	3.0	38.2	1.0	46.0	-13.0	-33.0	
5.243	7.0	V	3.0	37.4	1.0	43.4	-13.0	-30.4	

Rev. 03.03.14

LAT QPSK EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 20MHz QPSK							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D		2.5G HP Filter		Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1720MHz)									
3.44	-5.5	H	3.0	38.3	1.0	42.8	-13.0	-29.8	
5.16	-6.2	H	3.0	37.5	1.0	42.7	-13.0	-29.7	
3.44	-7.6	V	3.0	38.3	1.0	44.9	-13.0	-31.9	
5.16	-7.3	V	3.0	37.5	1.0	43.8	-13.0	-30.8	
Mid Channel (1732.5MHz)									
3.47	-6.6	H	3.0	38.3	1.0	43.9	-13.0	-30.9	
5.20	-5.8	H	3.0	37.5	1.0	42.2	-13.0	-29.2	
3.47	-7.7	V	3.0	38.3	1.0	44.9	-13.0	-31.9	
5.20	-7.0	V	3.0	37.5	1.0	43.4	-13.0	-30.4	
High Channel (1745MHz)									
3.49	-5.7	H	3.0	38.2	1.0	42.9	-13.0	-29.9	
5.24	-5.6	H	3.0	37.4	1.0	42.0	-13.0	-29.0	
3.49	-7.7	V	3.0	38.2	1.0	44.9	-13.0	-31.9	
5.24	-6.1	V	3.0	37.4	1.0	42.6	-13.0	-29.6	
Rev. 03.03.14									

LAT 16QAM EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 20MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber			Pre-amplifier		Filter		Limit		
3m Chamber D			3m Chamber D		2.5G HP Filter		Part 27		
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1720MHz)									
3.44	-7.6	H	3.0	38.3	1.0	44.8	-13.0	-31.8	
5.16	-6.1	H	3.0	37.5	1.0	42.6	-13.0	-29.6	
3.44	-7.3	V	3.0	38.3	1.0	44.6	-13.0	-31.6	
5.16	-6.5	V	3.0	37.5	1.0	42.9	-13.0	-29.9	
Mid Channel (1732.5MHz)									
3.47	-7.4	H	3.0	38.3	1.0	44.7	-13.0	-31.7	
5.20	-5.4	H	3.0	37.5	1.0	41.8	-13.0	-28.8	
3.47	-7.9	V	3.0	38.3	1.0	45.2	-13.0	-32.2	
5.20	-6.1	V	3.0	37.5	1.0	42.6	-13.0	-29.6	
High Channel (1745MHz)									
3.49	-7.5	H	3.0	38.2	1.0	44.7	-13.0	-31.7	
5.24	-5.4	H	3.0	37.4	1.0	41.8	-13.0	-28.8	
3.49	-7.9	V	3.0	38.2	1.0	45.2	-13.0	-32.2	
5.24	-6.3	V	3.0	37.4	1.0	42.8	-13.0	-29.8	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/21/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 1.4MHz QPSK							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D		2.5G HP Filter		Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1710.7MHz)									
3.421	-15.2	H	3.0	38.3	1.0	-52.5	-13.0	-39.5	
5.132	-6.7	H	3.0	37.5	1.0	-43.2	-13.0	-30.2	
3.421	-14.9	V	3.0	38.3	1.0	-52.2	-13.0	-39.2	
5.132	-11.2	V	3.0	37.5	1.0	-47.7	-13.0	-34.7	
Mid Channel (1732.5MHz)									
3.465	-15.2	H	3.0	38.3	1.0	-52.4	-13.0	-39.4	
5.198	-7.0	H	3.0	37.5	1.0	-43.4	-13.0	-30.4	
3.465	-15.5	V	3.0	38.3	1.0	-52.8	-13.0	-39.8	
5.198	-12.1	V	3.0	37.5	1.0	-48.6	-13.0	-35.6	
High Channel (1754.3MHz)									
3.509	-14.1	H	3.0	38.2	1.0	-51.4	-13.0	-38.4	
5.263	-6.8	H	3.0	37.4	1.0	-43.2	-13.0	-30.2	
3.509	-14.9	V	3.0	38.2	1.0	-52.2	-13.0	-39.2	
5.263	-11.8	V	3.0	37.4	1.0	-48.3	-13.0	-35.3	
Rev. 03.03.14									

UAT 16QAM EIRP POWER FOR LTE BAND 4 (1.4MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 4, 1.4MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D	2.5G HP Filter	Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1710.7MHz)									
3.421	-16.1	H	3.0	38.3	1.0	-53.4	-13.0	-40.4	
5.132	-8.1	H	3.0	37.5	1.0	-44.5	-13.0	-31.5	
3.421	-16.2	V	3.0	38.3	1.0	-53.5	-13.0	-40.5	
5.132	-12.5	V	3.0	37.5	1.0	-49.0	-13.0	-36.0	
Mid Channel (1732.5MHz)									
3.465	-16.3	H	3.0	38.3	1.0	-53.6	-13.0	-40.6	
5.198	-7.6	H	3.0	37.5	1.0	-44.1	-13.0	-31.1	
3.465	-16.2	V	3.0	38.3	1.0	-53.4	-13.0	-40.4	
5.198	-13.0	V	3.0	37.5	1.0	-49.4	-13.0	-36.4	
High Channel (1754.3MHz)									
3.509	-15.4	H	3.0	38.2	1.0	-52.6	-13.0	-39.6	
5.263	-7.8	H	3.0	37.4	1.0	-44.2	-13.0	-31.2	
3.509	-16.1	V	3.0	38.2	1.0	-53.3	-13.0	-40.3	
5.263	-13.4	V	3.0	37.4	1.0	-49.8	-13.0	-36.8	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 4 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 4, 3MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D	2.5G HP Filter	Part 27						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1711.5MHz)									
3.42	-13.5	H	3.0	38.3	1.0	-50.8	-13.0	-37.8	
5.13	-4.8	H	3.0	37.5	1.0	-41.3	-13.0	-28.3	
3.42	-14.8	V	3.0	38.3	1.0	-52.1	-13.0	-39.1	
5.13	-8.2	V	3.0	37.5	1.0	-44.6	-13.0	-31.6	
Mid Channel (1732.5MHz)									
3.47	-13.7	H	3.0	38.3	1.0	-50.9	-13.0	-37.9	
5.20	-5.6	H	3.0	37.5	1.0	-42.1	-13.0	-29.1	
3.47	-12.6	V	3.0	38.3	1.0	-49.9	-13.0	-36.9	
5.20	-10.2	V	3.0	37.5	1.0	-46.7	-13.0	-33.7	
High Channel (1753.5MHz)									
3.51	-13.9	H	3.0	38.2	1.0	-51.2	-13.0	-38.2	
5.26	-6.0	H	3.0	37.4	1.0	-42.4	-13.0	-29.4	
3.51	-13.3	V	3.0	38.2	1.0	-50.5	-13.0	-37.5	
5.26	-11.9	V	3.0	37.4	1.0	-48.3	-13.0	-35.3	

Rev. 03.03.14

UAT 16QAM EIRP POWER FOR LTE BAND 4 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 4, 3MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D	2.5G HP Filter	Part 27						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1711.5MHz)									
3.42	14.7	H	3.0	38.3	1.0	52.0	-13.0	-39.0	
5.13	-5.8	H	3.0	37.5	1.0	42.3	-13.0	-29.3	
3.42	-15.5	V	3.0	38.3	1.0	52.8	-13.0	-39.8	
5.13	-8.9	V	3.0	37.5	1.0	45.4	-13.0	-32.4	
Mid Channel (1732.5MHz)									
3.47	-14.8	H	3.0	38.3	1.0	52.0	-13.0	-39.0	
5.20	-7.0	H	3.0	37.5	1.0	43.5	-13.0	-30.5	
3.47	-14.6	V	3.0	38.3	1.0	51.8	-13.0	-38.8	
5.20	-11.6	V	3.0	37.5	1.0	48.0	-13.0	-35.0	
High Channel (1753.5MHz)									
3.51	-15.4	H	3.0	38.2	1.0	52.6	-13.0	-39.6	
5.26	-8.1	H	3.0	37.4	1.0	44.6	-13.0	-31.6	
3.51	-10.8	V	3.0	38.2	1.0	48.1	-13.0	-35.1	
5.26	-12.2	V	3.0	37.4	1.0	48.6	-13.0	-35.6	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 4 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 5MHz QPSK							
<u>Test Equipment:</u> Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D		2.5G HP Filter		Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1712.5MHz)									
3.425	-5.2	H	3.0	38.3	1.0	42.5	-13.0	-29.5	
5.138	-5.0	H	3.0	37.5	1.0	41.4	-13.0	-28.4	
3.425	-5.4	V	3.0	38.3	1.0	42.7	-13.0	-29.7	
5.138	-7.6	V	3.0	37.5	1.0	44.1	-13.0	-31.1	
Mid Channel (1732.5MHz)									
3.465	-5.5	H	3.0	38.3	1.0	42.8	-13.0	-29.8	
5.198	-3.9	H	3.0	37.5	1.0	40.3	-13.0	-27.3	
3.465	-5.7	V	3.0	38.3	1.0	43.0	-13.0	-30.0	
5.198	-5.3	V	3.0	37.5	1.0	41.8	-13.0	-28.8	
High Channel (1752.5MHz)									
3.505	-6.4	H	3.0	38.2	1.0	43.7	-13.0	-30.7	
5.258	-4.6	H	3.0	37.4	1.0	41.0	-13.0	-28.0	
3.505	-7.6	V	3.0	38.2	1.0	44.8	-13.0	-31.8	
5.258	-7.0	V	3.0	37.4	1.0	43.4	-13.0	-30.4	
Rev. 03.03.14									

UAT 16QAM EIRP POWER FOR LTE BAND 4 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 5MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber			Pre-amplifier		Filter		Limit		
3m Chamber D	3m Chamber D	2.5G HP Filter	Part 27						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1712.5MHz)									
3.425	-7.3	H	3.0	38.3	1.0	44.6	-13.0	-31.6	
5.138	-6.0	H	3.0	37.5	1.0	42.5	-13.0	-29.5	
3.425	-7.5	V	3.0	38.3	1.0	44.8	-13.0	-31.8	
5.138	-8.3	V	3.0	37.5	1.0	44.7	-13.0	-31.7	
Mid Channel (1732.5MHz)									
3.465	-6.8	H	3.0	38.3	1.0	44.0	-13.0	-31.0	
5.198	-4.9	H	3.0	37.5	1.0	41.3	-13.0	-28.3	
3.465	-7.1	V	3.0	38.3	1.0	44.3	-13.0	-31.3	
5.198	-6.2	V	3.0	37.5	1.0	42.7	-13.0	-29.7	
High Channel (1752.5MHz)									
3.505	-7.4	H	3.0	38.2	1.0	44.6	-13.0	-31.6	
5.258	-5.8	H	3.0	37.4	1.0	42.2	-13.0	-29.2	
3.505	-8.4	V	3.0	38.2	1.0	45.6	-13.0	-32.6	
5.258	-8.0	V	3.0	37.4	1.0	44.5	-13.0	-31.5	

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UAT QPSK EIRP POWER FOR LTE BAND 4 (10.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/21/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 10MHz QPSK							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber			Pre-amplifier		Filter		Limit		
3m Chamber F			3m Chamber F		2.5G HP Filter		Part 27		
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1715MHz)									
3.430	-8.1	H	3.0	36.4	1.0	-43.5	-13.0	-30.5	
5.145	-5.2	H	3.0	35.5	1.0	-39.7	-13.0	-26.7	
3.430	-8.6	V	3.0	36.4	1.0	-44.0	-13.0	-31.0	
5.145	-6.3	V	3.0	35.5	1.0	-40.8	-13.0	-27.8	
Mid Channel (1732.5MHz)									
3.465	-7.4	H	3.0	36.4	1.0	-42.8	-13.0	-29.8	
5.198	-5.0	H	3.0	35.5	1.0	-39.5	-13.0	-26.5	
3.465	-7.4	V	3.0	36.4	1.0	-42.7	-13.0	-29.7	
5.198	-4.9	V	3.0	35.5	1.0	-39.4	-13.0	-26.4	
High Channel (1750MHz)									
3.500	-7.2	H	3.0	36.4	1.0	-42.6	-13.0	-29.6	
5.250	-5.9	H	3.0	35.5	1.0	-40.3	-13.0	-27.3	
3.500	-7.7	V	3.0	36.4	1.0	-43.0	-13.0	-30.0	
5.250	-5.3	V	3.0	35.5	1.0	-39.7	-13.0	-26.7	
Rev. 03.03.14									

UAT 16QAM EIRP POWER FOR LTE BAND 4 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 4, 10MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber		Pre-amplifier		Filter		Limit			
3m Chamber F		3m Chamber F		2.5G HP Filter		Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1715MHz)									
3.430	-8.5	H	3.0	36.4	1.0	-43.8	-13.0	-30.8	
5.145	-6.0	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
3.430	-9.2	V	3.0	36.4	1.0	-44.6	-13.0	-31.6	
5.145	-8.0	V	3.0	35.5	1.0	-42.5	-13.0	-29.5	
Mid Channel (1732.5MHz)									
3.465	-9.8	H	3.0	36.4	1.0	-45.2	-13.0	-32.2	
5.198	-6.1	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
3.465	-8.1	V	3.0	36.4	1.0	-43.5	-13.0	-30.5	
5.198	-7.7	V	3.0	35.5	1.0	-42.1	-13.0	-29.1	
High Channel (1750MHz)									
3.500	-8.5	H	3.0	36.4	1.0	-43.8	-13.0	-30.8	
5.250	-7.5	H	3.0	35.5	1.0	-42.0	-13.0	-29.0	
3.500	-9.5	V	3.0	36.4	1.0	-44.9	-13.0	-31.9	
5.250	-6.8	V	3.0	35.5	1.0	-41.2	-13.0	-28.2	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 4 (15.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/21/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 15MHz QPSK							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D		2.5G HP Filter		Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1717.5MHz)									
3.435	-10.3	H	3.0	38.3	1.0	47.6	-13.0	-34.6	
5.153	-5.5	H	3.0	37.5	1.0	41.9	-13.0	-28.9	
3.435	-10.5	V	3.0	38.3	1.0	47.8	-13.0	-34.8	
5.153	-5.6	V	3.0	37.5	1.0	42.1	-13.0	-29.1	
Mid Channel (1732.5MHz)									
3.465	-9.4	H	3.0	38.3	1.0	46.7	-13.0	-33.7	
5.198	-5.8	H	3.0	37.5	1.0	42.2	-13.0	-29.2	
3.470	-8.7	V	3.0	38.3	1.0	46.0	-13.0	-33.0	
5.198	-6.2	V	3.0	37.5	1.0	42.7	-13.0	-29.7	
High Channel (1747.5MHz)									
3.495	-8.1	H	3.0	38.2	1.0	45.3	-13.0	-32.3	
5.243	-5.9	H	3.0	37.4	1.0	42.4	-13.0	-29.4	
3.495	-9.0	V	3.0	38.2	1.0	46.2	-13.0	-33.2	
5.243	-5.8	V	3.0	37.4	1.0	42.3	-13.0	-29.3	
Rev. 03.03.14									

UAT 16QAM EIRP POWER FOR LTE BAND 4 (15.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/21/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 15MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber			Pre-amplifier		Filter		Limit		
3m Chamber D			3m Chamber D		2.5G HP Filter		Part 27		
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1717.5MHz)									
3.435	-11.2	H	3.0	38.3	1.0	48.5	-13.0	-35.5	
5.153	6.8	H	3.0	37.5	1.0	43.3	-13.0	-30.3	
3.435	-11.3	V	3.0	38.3	1.0	48.6	-13.0	-35.6	
5.153	6.5	V	3.0	37.5	1.0	42.9	-13.0	-29.9	
Mid Channel (1732.5MHz)									
3.465	-11.5	H	3.0	38.3	1.0	48.8	-13.0	-35.8	
5.198	6.2	H	3.0	37.5	1.0	42.7	-13.0	-29.7	
3.470	8.9	V	3.0	38.3	1.0	46.2	-13.0	-33.2	
5.198	7.2	V	3.0	37.5	1.0	43.7	-13.0	-30.7	
High Channel (1747.5MHz)									
3.495	9.2	H	3.0	38.2	1.0	46.4	-13.0	-33.4	
5.243	7.3	H	3.0	37.4	1.0	43.7	-13.0	-30.7	
3.495	-10.0	V	3.0	38.2	1.0	47.2	-13.0	-34.2	
5.243	-7.2	V	3.0	37.4	1.0	43.6	-13.0	-30.6	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE Band 4, 20MHz QPSK							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber			Pre-amplifier		Filter		Limit		
3m Chamber D			3m Chamber D		2.5G HP Filter		Part 27		
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1720MHz)									
3.440	-9.8	H	3.0	38.3	1.0	-47.0	-13.0	-34.0	
5.160	-6.1	H	3.0	37.5	1.0	-42.6	-13.0	-29.6	
3.440	-9.3	V	3.0	38.3	1.0	-46.5	-13.0	-33.5	
5.160	-6.1	V	3.0	37.5	1.0	-42.6	-13.0	-29.6	
Mid Channel (1732.5MHz)									
3.465	-9.4	H	3.0	38.3	1.0	-46.6	-13.0	-33.6	
5.198	-5.2	H	3.0	37.5	1.0	-41.6	-13.0	-28.6	
3.465	-9.5	V	3.0	38.3	1.0	-46.7	-13.0	-33.7	
5.198	-6.0	V	3.0	37.5	1.0	-42.5	-13.0	-29.5	
High Channel (1745MHz)									
3.490	-9.2	H	3.0	38.2	1.0	-46.4	-13.0	-33.4	
5.235	-6.2	H	3.0	37.4	1.0	-42.7	-13.0	-29.7	
3.490	-9.6	V	3.0	38.2	1.0	-46.9	-13.0	-33.9	
5.235	-6.0	V	3.0	37.4	1.0	-42.5	-13.0	-29.5	
Rev. 03.03.14									

UAT 16QAM EIRP POWER FOR LTE BAND 4 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 4, 20MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D		2.5G HP Filter		Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1720MHz)									
3.440	-11.5	H	3.0	38.3	1.0	48.7	-13.0	-35.7	
5.160	-8.5	H	3.0	37.5	1.0	44.9	-13.0	-31.9	
3.440	-12.3	V	3.0	38.3	1.0	49.6	-13.0	-36.6	
5.160	-8.6	V	3.0	37.5	1.0	45.0	-13.0	-32.0	
Mid Channel (1732.5MHz)									
3.465	-11.2	H	3.0	38.3	1.0	48.5	-13.0	-35.5	
5.198	-7.4	H	3.0	37.5	1.0	43.9	-13.0	-30.9	
3.465	-11.3	V	3.0	38.3	1.0	48.5	-13.0	-35.5	
5.198	-8.9	V	3.0	37.5	1.0	45.3	-13.0	-32.3	
High Channel (1745MHz)									
3.490	-11.5	H	3.0	38.2	1.0	48.8	-13.0	-35.8	
5.235	-8.9	H	3.0	37.4	1.0	45.4	-13.0	-32.4	
3.490	-12.1	V	3.0	38.2	1.0	49.4	-13.0	-36.4	
5.235	-10.3	V	3.0	37.4	1.0	46.8	-13.0	-33.8	

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9.3.3. LTE BAND 5

LAT QPSK EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement																	
Project #:		14U17676															
Date:		06/20/14															
Test Engineer:		Ali Poushnejad															
Configuration:		EUT Only															
Mode:		LTE Band 5, 1.4MHz QPSK															
<u>Test Equipment:</u>																	
Substitution: Horn T59 Substitution, and 8ft SMA Cable																	
Chamber			Pre-amplifier			Filter		Limit									
3m Chamber D			3m Chamber D					Part 22									
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes								
Low Channel (824.7MHz)																	
1.65	-12.3	H	3.0	37.5	1.0	-48.8	-13.0	-35.8									
2.47	-20.9	H	3.0	37.8	1.0	-57.7	-13.0	-44.7									
1.65	-12.1	V	3.0	37.5	1.0	-48.7	-13.0	-35.7									
2.47	-20.2	V	3.0	37.8	1.0	-57.0	-13.0	-44.0									
Mid Channel (836.5MHz)																	
1.67	-12.6	H	3.0	37.5	1.0	-49.1	-13.0	-36.1									
2.51	-20.3	H	3.0	37.7	1.0	-57.0	-13.0	-44.0									
1.67	-13.6	V	3.0	37.5	1.0	-50.1	-13.0	-37.1									
2.51	-19.2	V	3.0	37.7	1.0	-55.8	-13.0	-42.8									
High Channel (848.3MHz)																	
1.70	-8.8	H	3.0	37.4	1.0	-45.3	-13.0	-32.3									
2.54	-19.9	H	3.0	37.8	1.0	-56.7	-13.0	-43.7									
1.70	-12.2	V	3.0	37.4	1.0	-48.6	-13.0	-35.6									
2.54	-17.7	V	3.0	37.8	1.0	-54.5	-13.0	-41.5									
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LAT 16QAM EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 5, 1.4MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D		Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (824.7MHz)									
1.65	-11.5	H	3.0	37.5	1.0	48.1	-13.0	-35.1	
2.47	-21.4	H	3.0	37.8	1.0	58.2	-13.0	-45.2	
1.65	-12.1	V	3.0	37.5	1.0	48.7	-13.0	-35.7	
2.47	-20.2	V	3.0	37.8	1.0	57.0	-13.0	-44.0	
Mid Channel (836.5MHz)									
1.67	-12.0	H	3.0	37.5	1.0	48.5	-13.0	-35.5	
2.51	-21.4	H	3.0	37.7	1.0	58.1	-13.0	-45.1	
1.67	-14.8	V	3.0	37.5	1.0	51.3	-13.0	-38.3	
2.51	-19.0	V	3.0	37.7	1.0	55.7	-13.0	-42.7	
High Channel (848.3MHz)									
1.70	-8.7	H	3.0	37.4	1.0	45.1	-13.0	-32.1	
2.54	-19.4	H	3.0	37.8	1.0	56.2	-13.0	-43.2	
1.70	-13.7	V	3.0	37.4	1.0	50.2	-13.0	-37.2	
2.54	-17.6	V	3.0	37.8	1.0	54.4	-13.0	-41.4	

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LAT QPSK EIRP POWER FOR LTE BAND 5 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 5, 3MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D		Part 22						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (825.5MHz)									
1.65	-12.3	H	3.0	37.5	1.0	-48.9	-13.0	-35.9	
2.48	-20.8	H	3.0	37.8	1.0	-57.6	-13.0	-44.6	
1.65	-12.8	V	3.0	37.5	1.0	-49.3	-13.0	-36.3	
2.48	-20.4	V	3.0	37.8	1.0	-57.2	-13.0	-44.2	
Mid Channel (836.5MHz)									
1.67	-12.0	H	3.0	37.5	1.0	-48.5	-13.0	-35.5	
2.51	-21.2	H	3.0	37.7	1.0	-57.9	-13.0	-44.9	
1.67	-15.0	V	3.0	37.5	1.0	-51.5	-13.0	-38.5	
2.51	-21.3	V	3.0	37.7	1.0	-58.0	-13.0	-45.0	
High Channel (847.5MHz)									
1.7	-6.5	H	3.0	37.4	1.0	-42.9	-13.0	-29.9	
2.5	-21.2	H	3.0	37.8	1.0	-57.9	-13.0	-44.9	
1.7	-9.1	V	3.0	37.4	1.0	-45.6	-13.0	-32.6	
2.5	-21.4	V	3.0	37.8	1.0	-58.2	-13.0	-45.2	

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LAT 16QAM EIRP POWER FOR LTE BAND 5 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 5, 3MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D		Part 22						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (825.5MHz)									
1.65	-12.1	H	3.0	37.5	1.0	48.6	-13.0	-35.6	
2.48	-20.7	H	3.0	37.8	1.0	57.5	-13.0	-44.5	
1.65	-14.5	V	3.0	37.5	1.0	51.0	-13.0	-38.0	
2.48	-19.8	V	3.0	37.8	1.0	56.6	-13.0	-43.6	
Mid Channel (836.5MHz)									
1.67	-12.1	H	3.0	37.5	1.0	48.6	-13.0	-35.6	
2.51	-20.8	H	3.0	37.7	1.0	57.5	-13.0	-44.5	
1.67	-14.8	V	3.0	37.5	1.0	51.2	-13.0	-38.2	
2.51	-20.4	V	3.0	37.7	1.0	57.1	-13.0	-44.1	
High Channel (847.5MHz)									
1.7	-6.2	H	3.0	37.4	1.0	42.6	-13.0	-29.6	
2.5	-20.6	H	3.0	37.8	1.0	57.4	-13.0	-44.4	
1.7	-10.3	V	3.0	37.4	1.0	46.8	-13.0	-33.8	
2.5	-20.9	V	3.0	37.8	1.0	57.7	-13.0	-44.7	

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LAT QPSK EIRP POWER FOR LTE BAND 5 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement																	
Project #:		14U17676															
Date:		06/20/14															
Test Engineer:		Ali Poushnejad															
Configuration:		EUT Only															
Mode:		LTE Band 5, 5MHz QPSK															
<u>Test Equipment:</u>																	
Substitution: Horn T59 Substitution, and 8ft SMA Cable																	
Chamber			Pre-amplifier			Filter		Limit									
3m Chamber D			3m Chamber D					Part 22									
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes								
Low Channel (825.5MHz)																	
1.65	-12.1	H	3.0	37.5	1.0	48.7	-13.0	-35.7									
2.48	-21.3	H	3.0	37.8	1.0	58.1	-13.0	-45.1									
1.65	-13.6	V	3.0	37.5	1.0	50.2	-13.0	-37.2									
2.48	-20.3	V	3.0	37.8	1.0	57.1	-13.0	-44.1									
Mid Channel (836.5MHz)																	
1.67	-12.0	H	3.0	37.5	1.0	48.5	-13.0	-35.5									
2.51	-21.1	H	3.0	37.7	1.0	57.8	-13.0	-44.8									
1.67	-11.7	V	3.0	37.5	1.0	48.1	-13.0	-35.1									
2.51	-20.9	V	3.0	37.7	1.0	57.5	-13.0	-44.5									
High Channel (847.5MHz)																	
1.7	-7.8	H	3.0	37.4	1.0	44.3	-13.0	-31.3									
2.5	-20.8	H	3.0	37.8	1.0	57.6	-13.0	-44.6									
1.7	-13.6	V	3.0	37.4	1.0	50.1	-13.0	-37.1									
2.5	-19.8	V	3.0	37.8	1.0	56.6	-13.0	-43.6									
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LAT 16QAM EIRP POWER FOR LTE BAND 5 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 5, 5MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D		Part 22						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (825.5MHz)									
1.65	-12.7	H	3.0	37.5	1.0	-49.3	-13.0	-36.3	
2.48	-21.1	H	3.0	37.8	1.0	-57.9	-13.0	-44.9	
1.65	-16.2	V	3.0	37.5	1.0	-52.7	-13.0	-39.7	
2.48	-21.0	V	3.0	37.8	1.0	-57.8	-13.0	-44.8	
Mid Channel (836.5MHz)									
1.67	-12.8	H	3.0	37.5	1.0	-49.3	-13.0	-36.3	
2.51	-21.3	H	3.0	37.7	1.0	-58.0	-13.0	-45.0	
1.67	-11.1	V	3.0	37.5	1.0	-47.5	-13.0	-34.5	
2.51	-21.3	V	3.0	37.7	1.0	-58.0	-13.0	-45.0	
High Channel (847.5MHz)									
1.7	-8.7	H	3.0	37.4	1.0	-45.2	-13.0	-32.2	
2.5	-21.0	H	3.0	37.8	1.0	-57.8	-13.0	-44.8	
1.7	-13.6	V	3.0	37.4	1.0	-50.1	-13.0	-37.1	
2.5	-21.1	V	3.0	37.8	1.0	-57.9	-13.0	-44.9	

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LAT QPSK EIRP POWER FOR LTE BAND 5 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 5, 10MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D	1G HP Filter	Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (829MHz)									
1.66	-23.3	H	3.0	37.5	1.0	-59.8	-13.0	-46.8	
2.49	-21.1	H	3.0	37.7	1.0	-57.9	-13.0	-44.9	
1.66	-22.2	V	3.0	37.5	1.0	-58.7	-13.0	-45.7	
2.49	-20.9	V	3.0	37.7	1.0	-57.6	-13.0	-44.6	
Mid Channel (836.5MHz)									
1.67	-12.1	H	3.0	37.5	1.0	-48.6	-13.0	-35.6	
2.51	-20.1	H	3.0	37.7	1.0	-56.8	-13.0	-43.8	
1.67	-15.0	V	3.0	37.5	1.0	-51.5	-13.0	-38.5	
2.51	-20.6	V	3.0	37.7	1.0	-57.3	-13.0	-44.3	
High Channel (844MHz)									
1.69	-19.9	H	3.0	37.5	1.0	-56.3	-13.0	-43.3	
2.53	-20.4	H	3.0	37.7	1.0	-57.2	-13.0	-44.2	
1.69	-13.6	V	3.0	37.5	1.0	-50.0	-13.0	-37.0	
2.53	-20.8	V	3.0	37.7	1.0	-57.5	-13.0	-44.5	

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LAT 16QAM EIRP POWER FOR LTE BAND 5 (10.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/19/14							
Test Engineer:		O. Su							
Configuration:		EUT only							
Mode:		LTE Band 5, 10MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber			Pre-amplifier		Filter		Limit		
3m Chamber F			3m Chamber F		1G HP Filter		Part 22		
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (829MHz)									
1.66	-16.4	H	3.0	34.9	1.0	-50.3	-13.0	-37.3	
2.49	-21.0	H	3.0	35.3	1.0	-55.4	-13.0	-42.4	
1.66	-7.1	V	3.0	34.9	1.0	-41.0	-13.0	-28.0	
2.49	-19.7	V	3.0	35.3	1.0	-54.0	-13.0	-41.0	
Mid Channel (836.5MHz)									
1.67	-13.6	H	3.0	34.9	1.0	-47.5	-13.0	-34.5	
2.51	-13.2	H	3.0	35.3	1.0	-47.5	-13.0	-34.5	
1.67	-10.1	V	3.0	34.9	1.0	-44.0	-13.0	-31.0	
2.51	-9.5	V	3.0	35.3	1.0	-43.8	-13.0	-30.8	
High Channel (844MHz)									
1.69	-10.9	H	3.0	34.9	1.0	-44.7	-13.0	-31.7	
2.53	-20.4	H	3.0	35.4	1.0	-54.8	-13.0	-41.8	
1.69	-13.2	V	3.0	34.9	1.0	-47.0	-13.0	-34.0	
2.53	-3.8	V	3.0	35.4	1.0	-38.2	-13.0	-25.2	

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UAT QPSK EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE band 2, 1.4MHz, QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F	Filter 01	Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (824.7MHz)									
1.65	-22.0	H	3.0	34.9	1.0	-55.9	-13.0	-42.9	
2.47	-18.4	H	3.0	35.4	1.0	-52.8	-13.0	-39.8	
1.65	-20.2	V	3.0	34.9	1.0	-54.1	-13.0	-41.1	
2.47	-16.9	V	3.0	35.4	1.0	-51.3	-13.0	-38.3	
Mid Channel (836.5MHz)									
1.67	-22.2	H	3.0	34.9	1.0	-56.1	-13.0	-43.1	
2.51	-18.4	H	3.0	35.3	1.0	-52.7	-13.0	-39.7	
1.67	-18.3	V	3.0	34.9	1.0	-52.2	-13.0	-39.2	
2.51	-16.9	V	3.0	35.3	1.0	-51.2	-13.0	-38.2	
High Channel (848.3MHz)									
1.70	-21.8	H	3.0	34.9	1.0	-55.7	-13.0	-42.7	
2.54	-18.0	H	3.0	35.4	1.0	-52.4	-13.0	-39.4	
1.70	-19.5	V	3.0	34.9	1.0	-53.4	-13.0	-40.4	
2.54	-16.7	V	3.0	35.4	1.0	-51.1	-13.0	-38.1	

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UAT 16QAM EIRP POWER FOR LTE BAND 5 (1.4MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/21/14							
Test Engineer:		Macie							
Configuration:		EUT only							
Mode:		LTE band 2, 1.4MHz, 16QAM							
<u>Test Equipment:</u> Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber F		3m Chamber F		Filter 01		Part 22			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (824.7MHz)									
1.65	-22.6	H	3.0	34.9	1.0	-56.5	-13.0	-43.5	
2.47	-18.8	H	3.0	35.4	1.0	-53.2	-13.0	-40.2	
1.65	-20.5	V	3.0	34.9	1.0	-54.4	-13.0	-41.4	
2.47	-18.0	V	3.0	35.4	1.0	-52.4	-13.0	-39.4	
Mid Channel (836.5MHz)									
1.67	-22.6	H	3.0	34.9	1.0	-56.5	-13.0	-43.5	
2.51	-19.6	H	3.0	35.3	1.0	-53.9	-13.0	-40.9	
1.67	-19.6	V	3.0	34.9	1.0	-53.5	-13.0	-40.5	
2.51	-15.9	V	3.0	35.3	1.0	-50.2	-13.0	-37.2	
High Channel (848.3MHz)									
1.70	-22.1	H	3.0	34.9	1.0	-55.9	-13.0	-42.9	
2.54	-18.5	H	3.0	35.4	1.0	-52.8	-13.0	-39.8	
1.70	-19.7	V	3.0	34.9	1.0	-53.6	-13.0	-40.6	
2.54	-17.4	V	3.0	35.4	1.0	-51.8	-13.0	-38.8	

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UAT QPSK EIRP POWER FOR LTE BAND 5 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Macie
Configuration: EUT Only
Mode: LTE Band 5, 3MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D		Part 22						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (825.5MHz)									
1.651	-22.7	H	3.0	37.5	1.0	-59.2	-13.0	-46.2	
2.477	-18.0	H	3.0	37.8	1.0	-54.8	-13.0	-41.8	
1.651	-19.1	V	3.0	37.5	1.0	-55.7	-13.0	-42.7	
2.477	-18.0	V	3.0	37.8	1.0	-54.8	-13.0	-41.8	
Mid Channel (836.5MHz)									
1.673	-21.5	H	3.0	37.5	1.0	-57.9	-13.0	-44.9	
2.510	-18.1	H	3.0	37.7	1.0	-54.7	-13.0	-41.7	
1.673	-19.3	V	3.0	37.5	1.0	-55.7	-13.0	-42.7	
2.510	-18.0	V	3.0	37.7	1.0	-54.7	-13.0	-41.7	
High Channel (847.5MHz)									
1.695	-21.9	H	3.0	37.4	1.0	-58.4	-13.0	-45.4	
2.543	-18.5	H	3.0	37.8	1.0	-55.3	-13.0	-42.3	
1.695	-19.7	V	3.0	37.4	1.0	-56.2	-13.0	-43.2	
2.543	-17.9	V	3.0	37.8	1.0	-54.7	-13.0	-41.7	

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UAT 16QAM EIRP POWER FOR LTE BAND 5 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Macie
Configuration: EUT Only
Mode: LTE Band 5, 3MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D		Part 22						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (825.5MHz)									
1.651	-23.7	H	3.0	37.5	1.0	60.3	-13.0	-47.3	
2.477	-19.3	H	3.0	37.8	1.0	56.1	-13.0	-43.1	
1.651	-21.4	V	3.0	37.5	1.0	57.9	-13.0	-44.9	
2.477	-18.8	V	3.0	37.8	1.0	55.6	-13.0	-42.6	
Mid Channel (836.5MHz)									
1.673	-23.7	H	3.0	37.5	1.0	60.2	-13.0	-47.2	
2.510	-18.4	H	3.0	37.7	1.0	55.1	-13.0	-42.1	
1.673	-20.1	V	3.0	37.5	1.0	56.6	-13.0	-43.6	
2.510	-18.8	V	3.0	37.7	1.0	55.5	-13.0	-42.5	
High Channel (847.5MHz)									
1.695	-23.7	H	3.0	37.4	1.0	60.1	-13.0	-47.1	
2.543	-19.1	H	3.0	37.8	1.0	55.9	-13.0	-42.9	
1.695	-20.7	V	3.0	37.4	1.0	57.1	-13.0	-44.1	
2.543	-18.9	V	3.0	37.8	1.0	55.7	-13.0	-42.7	

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UAT QPSK EIRP POWER FOR LTE BAND 5 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 5, 5MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D		Part 22						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (826.5MHz)									
1.65	-23.0	H	3.0	37.5	1.0	59.5	-13.0	-46.5	
2.48	-19.8	H	3.0	37.8	1.0	56.6	-13.0	-43.6	
1.65	-24.3	V	3.0	37.5	1.0	60.8	-13.0	-47.8	
2.48	-21.3	V	3.0	37.8	1.0	58.1	-13.0	-45.1	
Mid Channel (836.5MHz)									
1.67	-25.0	H	3.0	37.5	1.0	61.5	-13.0	-48.5	
2.51	-20.3	H	3.0	37.7	1.0	57.0	-13.0	-44.0	
1.67	-24.2	V	3.0	37.5	1.0	60.7	-13.0	-47.7	
2.51	-19.9	V	3.0	37.7	1.0	56.6	-13.0	-43.6	
High Channel (846.5MHz)									
1.69	-24.6	H	3.0	37.4	1.0	61.1	-13.0	-48.1	
2.54	-21.5	H	3.0	37.8	1.0	58.2	-13.0	-45.2	
1.69	-23.9	V	3.0	37.4	1.0	60.4	-13.0	-47.4	
2.54	-20.4	V	3.0	37.8	1.0	57.2	-13.0	-44.2	

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UAT 16QAM EIRP POWER FOR LTE BAND 5 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 5, 5MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D		Part 22						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (826.5MHz)									
1.65	-25.3	H	3.0	37.5	1.0	-61.8	-13.0	-48.8	
2.48	-21.3	H	3.0	37.8	1.0	-58.1	-13.0	-45.1	
1.65	-23.9	V	3.0	37.5	1.0	-60.4	-13.0	-47.4	
2.48	-20.9	V	3.0	37.8	1.0	-57.7	-13.0	-44.7	
Mid Channel (836.5MHz)									
1.67	-25.3	H	3.0	37.5	1.0	-61.8	-13.0	-48.8	
2.51	-21.6	H	3.0	37.7	1.0	-58.3	-13.0	-45.3	
1.67	-24.4	V	3.0	37.5	1.0	-60.9	-13.0	-47.9	
2.51	-21.3	V	3.0	37.7	1.0	-58.0	-13.0	-45.0	
High Channel (846.5MHz)									
1.69	-22.6	H	3.0	37.4	1.0	-59.0	-13.0	-46.0	
2.54	-19.5	H	3.0	37.8	1.0	-56.3	-13.0	-43.3	
1.69	-24.3	V	3.0	37.4	1.0	-60.8	-13.0	-47.8	
2.54	-20.0	V	3.0	37.8	1.0	-56.8	-13.0	-43.8	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 5 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 5, 10MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D		Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (829MHz)									
1.66	-25.8	H	3.0	37.5	1.0	-62.3	-13.0	-49.3	
2.49	-21.7	H	3.0	37.7	1.0	-58.4	-13.0	-45.4	
1.66	-23.7	V	3.0	37.5	1.0	-60.2	-13.0	-47.2	
2.49	-20.1	V	3.0	37.7	1.0	-56.9	-13.0	-43.9	
Mid Channel (836.5MHz)									
1.67	-24.1	H	3.0	37.5	1.0	-60.6	-13.0	-47.6	
2.51	-20.6	H	3.0	37.7	1.0	-57.3	-13.0	-44.3	
1.67	-23.3	V	3.0	37.5	1.0	-59.8	-13.0	-46.8	
2.51	-20.3	V	3.0	37.7	1.0	-57.0	-13.0	-44.0	
High Channel (844MHz)									
1.69	-24.8	H	3.0	37.5	1.0	-61.3	-13.0	-48.3	
2.53	-20.4	H	3.0	37.7	1.0	-57.1	-13.0	-44.1	
1.69	-24.5	V	3.0	37.5	1.0	-60.9	-13.0	-47.9	
2.53	-20.7	V	3.0	37.7	1.0	-57.5	-13.0	-44.5	

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UAT 16QAM EIRP POWER FOR LTE BAND 5 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 5, 10MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber F	3m Chamber F		Part 22						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (829MHz)									
1.66	-24.7	H	3.0	34.9	1.0	-58.6	-13.0	-45.6	
2.49	-21.5	H	3.0	35.3	1.0	-55.8	-13.0	-42.8	
1.66	-23.9	V	3.0	34.9	1.0	-57.8	-13.0	-44.8	
2.49	-20.6	V	3.0	35.3	1.0	-54.9	-13.0	-41.9	
Mid Channel (836.5MHz)									
1.67	-23.9	H	3.0	34.9	1.0	-57.7	-13.0	-44.7	
2.51	-20.5	H	3.0	35.3	1.0	-54.8	-13.0	-41.8	
1.67	-23.6	V	3.0	34.9	1.0	-57.5	-13.0	-44.5	
2.51	-20.2	V	3.0	35.3	1.0	-54.5	-13.0	-41.5	
High Channel (844MHz)									
1.69	-23.4	H	3.0	34.9	1.0	-57.3	-13.0	-44.3	
2.53	-19.4	H	3.0	35.4	1.0	-53.8	-13.0	-40.8	
1.69	-24.4	V	3.0	34.9	1.0	-58.2	-13.0	-45.2	
2.53	-19.8	V	3.0	35.4	1.0	-54.2	-13.0	-41.2	

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9.3.4. LTE BAND 13

LAT QPSK EIRP POWER FOR LTE BAND 13 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement																	
Project #:		14U17676															
Date:		06/23/14															
Test Engineer:		Macie															
Configuration:		EUT only															
Mode:		LTE Band 13, 5MHz QPSK															
<u>Test Equipment:</u>																	
Substitution: Horn T59 Substitution, and 8ft SMA Cable																	
Chamber		Pre-amplifier		Filter		Limit											
3m Chamber F		3m Chamber F		1.0GHz HP Filter		Part 27											
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes								
Low Channel (779.5MHz)																	
1.559	-10.9	V	3.0	35.0	1.0	44.9	-40.0	-4.9	1559-1610 MHz								
2.389	4.4	V	3.0	35.6	1.0	30.2	-13.0	-17.2									
3.118	-6.9	V	3.0	36.5	1.0	42.4	-13.0	-29.4									
1.559	-12.5	H	3.0	35.0	1.0	46.5	-40.0	-6.5	1559-1610 MHz								
2.389	-0.8	H	3.0	35.6	1.0	35.5	-13.0	-22.5									
3.118	-8.8	H	3.0	36.5	1.0	44.3	-13.0	-31.3									
Mid Channel (782MHz)																	
1.564	-10.7	V	3.0	35.0	1.0	44.7	-40.0	-4.7	1559-1610 MHz								
2.346	1.3	V	3.0	35.5	1.0	33.2	-13.0	-20.2									
3.128	-8.3	V	3.0	36.5	1.0	43.7	-13.0	-30.7									
1.564	-12.9	H	3.0	35.0	1.0	46.9	-40.0	-6.9	1559-1610 MHz								
2.346	-5.1	H	3.0	35.5	1.0	39.6	-13.0	-26.6									
3.128	9.6	H	3.0	36.5	1.0	45.1	-13.0	-32.1									
High Channel (784.5MHz)																	
1.569	-10.4	V	3.0	35.0	1.0	44.3	-40.0	-4.3	1559-1610 MHz								
2.354	1.9	V	3.0	35.6	1.0	32.6	-13.0	-19.6									
3.138	-7.6	V	3.0	36.5	1.0	43.1	-13.0	-30.1									
1.569	-12.3	H	3.0	35.0	1.0	46.2	-40.0	-6.2	1559-1610 MHz								
2.354	-0.2	H	3.0	35.6	1.0	34.8	-13.0	-21.8									
3.138	-9.5	H	3.0	36.5	1.0	45.0	-13.0	-32.0									
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LAT 16QAM EIRP POWER FOR LTE BAND 13 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement																	
Project #:		14U17676															
Date:		06/23/14															
Test Engineer:		Macie															
Configuration:		EUT only															
Mode:		LTE Band 13, 5MHz 16QAM															
<u>Test Equipment:</u>																	
Substitution: Horn T59 Substitution, and 8ft SMA Cable																	
Chamber			Pre-amplifier			Filter		Limit									
3m Chamber F			3m Chamber F			1.0GHz HP Filter		Part 27									
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes								
Low Channel (779.5MHz)																	
1.559	-11.7	V	3.0	35.0	1.0	45.7	40.0	-5.7	1559-1610 MHz								
2.389	3.7	V	3.0	35.6	1.0	31.0	-13.0	-18.0									
3.118	-7.9	V	3.0	36.5	1.0	43.4	-13.0	-30.4									
1.559	-13.6	H	3.0	35.0	1.0	47.6	40.0	-7.6	1559-1610 MHz								
2.389	-11.8	H	3.0	35.6	1.0	46.4	-13.0	-33.4									
3.118	8.9	H	3.0	36.5	1.0	44.4	-13.0	-31.4									
Mid Channel (782MHz)																	
1.564	-11.8	V	3.0	35.0	1.0	45.8	40.0	-5.8	1559-1610 MHz								
2.346	0.7	V	3.0	35.5	1.0	33.8	-13.0	-20.8									
3.128	9.2	V	3.0	36.5	1.0	44.7	-13.0	-31.7									
1.564	-13.6	H	3.0	35.0	1.0	47.6	40.0	-7.6	1559-1610 MHz								
2.346	-5.8	H	3.0	35.5	1.0	40.3	-13.0	-27.3									
3.128	-10.0	H	3.0	36.5	1.0	45.4	-13.0	-32.4									
High Channel (784.5MHz)																	
1.569	-11.6	V	3.0	35.0	1.0	45.5	40.0	-5.5	1559-1610 MHz								
2.354	0.5	V	3.0	35.6	1.0	34.1	-13.0	-21.1									
3.138	-8.5	V	3.0	36.5	1.0	43.9	-13.0	-30.9									
1.569	-13.7	H	3.0	35.0	1.0	47.6	40.0	-7.6	1559-1610 MHz								
2.354	-0.6	H	3.0	35.6	1.0	35.1	-13.0	-22.1									
3.138	-9.8	H	3.0	36.5	1.0	45.3	-13.0	-32.3									

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LAT QPSK EIRP POWER FOR LTE BAND 13 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 13, 10MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F	1.0GHz HP Filter	Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (782MHz)									
1.564	-12.3	H	3.0	35.0	1.0	-46.3	-40.0	-6.3	1559-1610 MHz
2.346	-10.4	H	3.0	35.5	1.0	-44.9	-13.0	-31.9	
1.564	-8.3	V	3.0	35.0	1.0	-42.3	-40.0	-2.3	1559-1610 MHz
2.346	-5.0	V	3.0	35.5	1.0	-39.5	-13.0	-26.5	

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LAT 16QAM EIRP POWER FOR LTE BAND 13 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 13, 10MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F	1.0GHz HP Filter	Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (782MHz)									
1.564	-13.3	H	3.0	35.0	1.0	47.3	40.0	-7.3	1559-1610 MHz
2.346	-11.5	H	3.0	35.5	1.0	46.1	-13.0	-33.1	
1.564	9.5	V	3.0	35.0	1.0	43.5	40.0	-3.5	1559-1610 MHz
2.346	-6.4	V	3.0	35.5	1.0	41.0	-13.0	-28.0	

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UAT QPSK EIRP POWER FOR LTE BAND 13 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement																	
Project #:		14U17676															
Date:		06/23/14															
Test Engineer:		Macie															
Configuration:		EUT only															
Mode:		LTE Band 13, 5MHz QPSK															
Test Equipment:																	
Substitution: Horn T59 Substitution, and 8ft SMA Cable																	
Chamber		Pre-amplifier		Filter		Limit											
3m Chamber F		3m Chamber F		1.0GHz HP Filter		Part 27											
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes								
Low Channel (779.5MHz)																	
1.559	-12.0	V	3.0	35.0	1.0	46.0	-40.0	-6.0	1559-1610 MHz								
2.389	3.2	V	3.0	35.6	1.0	31.4	-13.0	-18.4									
3.118	-8.0	V	3.0	36.5	1.0	43.5	-13.0	-30.5									
1.559	-13.9	H	3.0	35.0	1.0	47.8	-40.0	-7.8	1559-1610 MHz								
2.389	-1.4	H	3.0	35.6	1.0	36.0	-13.0	-23.0									
3.118	-10.1	H	3.0	36.5	1.0	45.5	-13.0	-32.5									
Mid Channel (782MHz)																	
1.564	-11.6	V	3.0	35.0	1.0	45.6	-40.0	-5.6	1559-1610 MHz								
2.346	0.4	V	3.0	35.5	1.0	34.2	-13.0	-21.2									
3.128	-9.4	V	3.0	36.5	1.0	44.8	-13.0	-31.8									
1.564	-13.9	H	3.0	35.0	1.0	47.9	-40.0	-7.9	1559-1610 MHz								
2.346	-6.0	H	3.0	35.5	1.0	40.5	-13.0	-27.5									
3.128	-10.9	H	3.0	36.5	1.0	46.4	-13.0	-33.4									
High Channel (784.5MHz)																	
1.569	-11.7	V	3.0	35.0	1.0	45.7	-40.0	-5.7	1559-1610 MHz								
2.354	0.4	V	3.0	35.6	1.0	34.1	-13.0	-21.1									
3.138	-8.8	V	3.0	36.5	1.0	44.3	-13.0	-31.3									
1.569	-13.3	H	3.0	35.0	1.0	47.3	-40.0	-7.3	1559-1610 MHz								
2.354	-1.3	H	3.0	35.6	1.0	35.9	-13.0	-22.9									
3.138	-10.6	H	3.0	36.5	1.0	46.0	-13.0	-33.0									

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UAT 16QAM EIRP POWER FOR LTE BAND 13 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement																	
Project #:		14U17676															
Date:		06/23/14															
Test Engineer:		Macie															
Configuration:		EUT only															
Mode:		LTE Band 13, 5MHz 16QAM															
Test Equipment:																	
Substitution: Horn T59 Substitution, and 8ft SMA Cable																	
Chamber			Pre-amplifier			Filter		Limit									
3m Chamber F			3m Chamber F			1.0GHz HP Filter		Part 27									
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes								
Low Channel (779.5MHz)																	
1.559	-13.0	V	3.0	35.0	1.0	47.0	40.0	-7.0	1559-1610 MHz								
2.389	2.5	V	3.0	35.6	1.0	32.2	-13.0	-19.2									
3.118	-9.2	V	3.0	36.5	1.0	44.7	-13.0	-31.7									
1.559	-14.9	H	3.0	35.0	1.0	48.9	40.0	-8.9	1559-1610 MHz								
2.389	-12.8	H	3.0	35.6	1.0	47.4	-13.0	-34.4									
3.118	-9.9	H	3.0	36.5	1.0	45.4	-13.0	-32.4									
Mid Channel (782MHz)																	
1.564	-13.0	V	3.0	35.0	1.0	47.0	40.0	-7.0	1559-1610 MHz								
2.346	-0.1	V	3.0	35.5	1.0	34.7	-13.0	-21.7									
3.128	-10.4	V	3.0	36.5	1.0	45.9	-13.0	-32.9									
1.564	-14.8	H	3.0	35.0	1.0	48.7	40.0	-8.7	1559-1610 MHz								
2.346	-5.9	H	3.0	35.5	1.0	40.5	-13.0	-27.5									
3.128	-11.0	H	3.0	36.5	1.0	46.5	-13.0	-33.5									
High Channel (784.5MHz)																	
1.569	-12.8	V	3.0	35.0	1.0	46.8	40.0	-6.8	1559-1610 MHz								
2.354	-0.1	V	3.0	35.6	1.0	34.6	-13.0	-21.6									
3.138	-9.3	V	3.0	36.5	1.0	44.7	-13.0	-31.7									
1.569	-14.5	H	3.0	35.0	1.0	48.4	40.0	-8.4	1559-1610 MHz								
2.354	-1.6	H	3.0	35.6	1.0	36.2	-13.0	-23.2									
3.138	-10.7	H	3.0	36.5	1.0	46.1	-13.0	-33.1									

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UAT QPSK EIRP POWER FOR LTE BAND 13 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 13, 10MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F	1.0GHz HP Filter	Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (782MHz)									
1.564	-13.6	H	3.0	35.0	1.0	-47.6	-40.0	-7.6	1559-1610 MHz
2.346	-11.8	H	3.0	35.5	1.0	-46.4	-13.0	-33.4	
1.564	9.5	V	3.0	35.0	1.0	-43.5	-40.0	-3.5	1559-1610 MHz
2.346	-6.1	V	3.0	35.5	1.0	-40.7	-13.0	-27.7	

Rev. 03.03.14

UAT 16QAM EIRP POWER FOR LTE BAND 13 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 13, 10MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F	1.0GHz HP Filter	Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (782MHz)									
1.564	-14.7	H	3.0	35.0	1.0	48.7	40.0	-8.7	1559-1610 MHz
2.346	-9.9	H	3.0	35.5	1.0	44.5	-13.0	-31.5	
1.564	-10.8	V	3.0	35.0	1.0	44.8	40.0	-4.8	1559-1610 MHz
2.346	-7.7	V	3.0	35.5	1.0	42.2	-13.0	-29.2	

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9.3.5. LTE BAND 17

LAT QPSK EIRP POWER FOR LTE BAND 17 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		E.Yu							
Configuration:		EUT Only							
Mode:		LTE Band 17, 5MHz QPSK							
<u>Test Equipment:</u> Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber F		3m Chamber F				Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (706.5MHz)									
1.413	-16.8	H	3.0	35.3	1.0	51.2	-13.0	-38.2	
2.120	-15.3	H	3.0	34.9	1.0	49.3	-13.0	-36.3	
1.413	-21.4	V	3.0	35.3	1.0	55.8	-13.0	-42.8	
2.120	-17.7	V	3.0	34.9	1.0	51.6	-13.0	-38.6	
Mid Channel (710MHz)									
1.420	-15.6	H	3.0	35.3	1.0	49.9	-13.0	-36.9	
2.130	-16.7	H	3.0	35.0	1.0	50.6	-13.0	-37.6	
1.420	-18.9	V	3.0	35.3	1.0	53.2	-13.0	-40.2	
2.130	-15.6	V	3.0	35.0	1.0	49.6	-13.0	-36.6	
High Channel (713.5MHz)									
1.427	-14.7	H	3.0	35.3	1.0	49.0	-13.0	-36.0	
2.141	-15.1	H	3.0	35.0	1.0	49.1	-13.0	-36.1	
1.427	-17.5	V	3.0	35.3	1.0	51.8	-13.0	-38.8	
2.141	-15.2	V	3.0	35.0	1.0	49.1	-13.0	-36.1	
Rev. 03.03.14									

LAT 16QAM EIRP POWER FOR LTE BAND 17 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/20/14
Test Engineer: E.Yu
Configuration: EUT Only
Mode: LTE Band 17, 5MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber		Pre-amplifier		Filter		Limit			
3m Chamber F		3m Chamber F				Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (706.5MHz)									
1.413	-17.4	H	3.0	35.3	1.0	-51.8	-13.0	-38.8	
2.120	-15.3	H	3.0	34.9	1.0	-49.2	-13.0	-36.2	
1.413	-20.7	V	3.0	35.3	1.0	-55.1	-13.0	-42.1	
2.120	-17.7	V	3.0	34.9	1.0	-51.6	-13.0	-38.6	
Mid Channel (710MHz)									
1.420	-15.9	H	3.0	35.3	1.0	-50.2	-13.0	-37.2	
2.130	-18.3	H	3.0	35.0	1.0	-52.2	-13.0	-39.2	
1.420	-19.0	V	3.0	35.3	1.0	-53.3	-13.0	-40.3	
2.130	-14.8	V	3.0	35.0	1.0	-48.8	-13.0	-35.8	
High Channel (713.5MHz)									
1.427	-14.7	H	3.0	35.3	1.0	-49.0	-13.0	-36.0	
2.141	-16.2	H	3.0	35.0	1.0	-50.2	-13.0	-37.2	
1.427	-16.9	V	3.0	35.3	1.0	-51.2	-13.0	-38.2	
2.141	-14.6	V	3.0	35.0	1.0	-48.6	-13.0	-35.6	

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LAT QPSK EIRP POWER FOR LTE BAND 17 (10.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		E.Yu							
Configuration:		EUT Only							
Mode:		LTE Band 17, 10MHz QPSK							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber F		3m Chamber F				Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (709MHz)									
1.418	-17.1	H	3.0	35.3	1.0	-51.4	-13.0	-38.4	
2.127	-17.1	H	3.0	34.9	1.0	-51.0	-13.0	-38.0	
1.418	-19.4	V	3.0	35.3	1.0	-53.7	-13.0	-40.7	
2.127	-15.0	V	3.0	34.9	1.0	-49.0	-13.0	-36.0	
Mid Channel (710MHz)									
1.420	-16.1	H	3.0	35.3	1.0	-50.4	-13.0	-37.4	
2.130	-16.5	H	3.0	35.0	1.0	-50.4	-13.0	-37.4	
1.420	-19.7	V	3.0	35.3	1.0	-54.0	-13.0	-41.0	
2.130	-14.6	V	3.0	35.0	1.0	-48.6	-13.0	-35.6	
High Channel (711MHz)									
1.422	-14.6	H	3.0	35.3	1.0	-48.9	-13.0	-35.9	
2.133	-16.4	H	3.0	35.0	1.0	-50.4	-13.0	-37.4	
1.422	-16.6	V	3.0	35.3	1.0	-50.9	-13.0	-37.9	
2.133	-15.6	V	3.0	35.0	1.0	-49.6	-13.0	-36.6	
Rev. 03.03.14									

LAT 16QAM EIRP POWER FOR LTE BAND 17 (10.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/20/14							
Test Engineer:		E.Yu							
Configuration:		EUT Only							
Mode:		LTE Band 17, 10MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber F		3m Chamber F				Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (709MHz)									
1.418	-16.8	H	3.0	35.3	1.0	-51.1	-13.0	-38.1	
2.127	-16.0	H	3.0	34.9	1.0	-49.9	-13.0	-36.9	
1.418	-18.8	V	3.0	35.3	1.0	-53.1	-13.0	-40.1	
2.127	-16.0	V	3.0	34.9	1.0	-49.9	-13.0	-36.9	
Mid Channel (710MHz)									
1.420	-16.4	H	3.0	35.3	1.0	-50.7	-13.0	-37.7	
2.130	-17.0	H	3.0	35.0	1.0	-50.9	-13.0	-37.9	
1.420	-19.2	V	3.0	35.3	1.0	-53.5	-13.0	-40.5	
2.130	-14.8	V	3.0	35.0	1.0	-48.7	-13.0	-35.7	
High Channel (711MHz)									
1.422	-15.1	H	3.0	35.3	1.0	-49.5	-13.0	-36.5	
2.133	-17.2	H	3.0	35.0	1.0	-51.2	-13.0	-38.2	
1.422	-17.8	V	3.0	35.3	1.0	-52.1	-13.0	-39.1	
2.133	-15.9	V	3.0	35.0	1.0	-49.9	-13.0	-36.9	

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UAT QPSK EIRP POWER FOR LTE BAND 17 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement																	
Project #:		14U17676															
Date:		06/23/14															
Test Engineer:		E.Yu															
Configuration:		EUT Only															
Mode:		LTE Band 17, 5MHz QPSK															
<u>Test Equipment:</u>																	
Substitution: Horn T59 Substitution, and 8ft SMA Cable																	
Chamber		Pre-amplifier		Filter		Limit											
3m Chamber F		3m Chamber F				Part 27											
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes								
Low Channel (706.5MHz)																	
1.413	-14.6	H	3.0	35.3	1.0	48.9	-13.0	-35.9									
2.120	-10.4	H	3.0	34.9	1.0	44.3	-13.0	-31.3									
1.413	-15.3	V	3.0	35.3	1.0	49.7	-13.0	-36.7									
2.120	-12.3	V	3.0	34.9	1.0	46.2	-13.0	-33.2									
Mid Channel (710MHz)																	
1.420	-16.5	H	3.0	35.3	1.0	50.8	-13.0	-37.8									
2.130	-14.1	H	3.0	35.0	1.0	48.1	-13.0	-35.1									
1.420	-18.8	V	3.0	35.3	1.0	53.2	-13.0	-40.2									
2.130	-15.1	V	3.0	35.0	1.0	49.1	-13.0	-36.1									
High Channel (713.5MHz)																	
1.427	-17.7	H	3.0	35.3	1.0	52.0	-13.0	-39.0									
2.141	-16.1	H	3.0	35.0	1.0	50.1	-13.0	-37.1									
1.427	-15.5	V	3.0	35.3	1.0	49.8	-13.0	-36.8									
2.141	-12.9	V	3.0	35.0	1.0	46.9	-13.0	-33.9									
Rev. 03.03.14																	

UAT 16QAM EIRP POWER FOR LTE BAND 17 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: E.Yu
Configuration: EUT Only
Mode: LTE Band 17, 5MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber F	3m Chamber F		Part 27						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (706.5MHz)									
1.413	-15.1	H	3.0	35.3	1.0	49.4	-13.0	-36.4	
2.120	-11.3	H	3.0	34.9	1.0	45.2	-13.0	-32.2	
1.413	-16.2	V	3.0	35.3	1.0	50.5	-13.0	-37.5	
2.120	-13.8	V	3.0	34.9	1.0	47.7	-13.0	-34.7	
Mid Channel (710MHz)									
1.420	-15.0	H	3.0	35.3	1.0	49.4	-13.0	-36.4	
2.130	-11.5	H	3.0	35.0	1.0	45.4	-13.0	-32.4	
1.420	-18.5	V	3.0	35.3	1.0	52.8	-13.0	-39.8	
2.130	-15.7	V	3.0	35.0	1.0	49.6	-13.0	-36.6	
High Channel (713.5MHz)									
1.427	-15.5	H	3.0	35.3	1.0	49.8	-13.0	-36.8	
2.141	-14.5	H	3.0	35.0	1.0	48.5	-13.0	-35.5	
1.427	-16.1	V	3.0	35.3	1.0	50.4	-13.0	-37.4	
2.141	-13.4	V	3.0	35.0	1.0	47.4	-13.0	-34.4	

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UAT QPSK EIRP POWER FOR LTE BAND 17 (10.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/23/14							
Test Engineer:		E.Yu							
Configuration:		EUT Only							
Mode:		LTE Band 17, 10MHz QPSK							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber F		3m Chamber F				Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (709MHz)									
1.418	-16.1	H	3.0	35.3	1.0	-50.4	-13.0	-37.4	
2.127	-17.1	H	3.0	34.9	1.0	-51.0	-13.0	-38.0	
1.418	-18.4	V	3.0	35.3	1.0	-52.7	-13.0	-39.7	
2.127	-15.3	V	3.0	34.9	1.0	-49.3	-13.0	-36.3	
Mid Channel (710MHz)									
1.420	-15.9	H	3.0	35.3	1.0	-50.2	-13.0	-37.2	
2.130	-15.5	H	3.0	35.0	1.0	-49.4	-13.0	-36.4	
1.420	-18.7	V	3.0	35.3	1.0	-53.0	-13.0	-40.0	
2.130	-14.6	V	3.0	35.0	1.0	-48.6	-13.0	-35.6	
High Channel (711MHz)									
1.422	-15.6	H	3.0	35.3	1.0	-49.9	-13.0	-36.9	
2.133	-15.9	H	3.0	35.0	1.0	-49.9	-13.0	-36.9	
1.422	-16.1	V	3.0	35.3	1.0	-50.4	-13.0	-37.4	
2.133	-16.4	V	3.0	35.0	1.0	-50.4	-13.0	-37.4	
Rev. 03.03.14									

UAT 16QAM EIRP POWER FOR LTE BAND 17 (10.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/23/14							
Test Engineer:		E.Yu							
Configuration:		EUT Only							
Mode:		LTE Band 17, 10MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber F		3m Chamber F				Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (709MHz)									
1.418	-15.8	H	3.0	35.3	1.0	-50.1	-13.0	-37.1	
2.127	-16.3	H	3.0	34.9	1.0	-50.2	-13.0	-37.2	
1.418	-17.8	V	3.0	35.3	1.0	-52.1	-13.0	-39.1	
2.127	-15.8	V	3.0	34.9	1.0	-49.7	-13.0	-36.7	
Mid Channel (710MHz)									
1.420	-17.4	H	3.0	35.3	1.0	-51.7	-13.0	-38.7	
2.130	-17.3	H	3.0	35.0	1.0	-51.2	-13.0	-38.2	
1.420	-19.9	V	3.0	35.3	1.0	-54.2	-13.0	-41.2	
2.130	-14.7	V	3.0	35.0	1.0	-48.6	-13.0	-35.6	
High Channel (711MHz)									
1.422	-14.8	H	3.0	35.3	1.0	-49.2	-13.0	-36.2	
2.133	-16.6	H	3.0	35.0	1.0	-50.6	-13.0	-37.6	
1.422	-17.9	V	3.0	35.3	1.0	-52.2	-13.0	-39.2	
2.133	-15.6	V	3.0	35.0	1.0	-49.6	-13.0	-36.6	

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9.3.6. LTE BAND 25

LAT QPSK EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement																	
Company:																	
Project #:		14U17676															
Date:		06/20/14															
Test Engineer:		T Wang															
Configuration:		EUT only															
Mode:		LTE Band 25, 1.4MHz QPSK															
<u>Test Equipment:</u>																	
Substitution: Horn T59 Substitution, and 8ft SMA Cable																	
Chamber	Pre-amplifier	Filter	Limit														
3m Chamber D	3m Chamber D		Part 24														
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes								
Low Channel (1850.7MHz)																	
3.701	-12.6	H	3.0	38.0	1.0	-49.7	-13.0	-36.7									
5.552	-11.5	H	3.0	37.4	1.0	-47.9	-13.0	-34.9									
3.701	-13.5	V	3.0	38.0	1.0	-50.6	-13.0	-37.6									
5.552	-13.1	V	3.0	37.4	1.0	-49.5	-13.0	-36.5									
Mid Channel (1882.5MHz)																	
3.765	-13.3	H	3.0	38.0	1.0	-50.3	-13.0	-37.3									
5.648	-12.4	H	3.0	37.3	1.0	-48.7	-13.0	-35.7									
3.765	-13.3	V	3.0	38.0	1.0	-50.3	-13.0	-37.3									
5.648	-7.2	V	3.0	37.3	1.0	-43.5	-13.0	-30.5									
High Channel (1914.3MHz)																	
3.829	-13.8	H	3.0	37.9	1.0	-50.8	-13.0	-37.8									
5.743	-10.9	H	3.0	37.3	1.0	-47.3	-13.0	-34.3									
3.829	-11.2	V	3.0	37.9	1.0	-48.2	-13.0	-35.2									
5.743	-12.5	V	3.0	37.3	1.0	-48.8	-13.0	-35.8									
Rev. 03.03.14																	

LAT 16QAM EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Company: Project #: 14U17676 Date: 06/20/14 Test Engineer: T Wang Configuration: EUT only Mode: LTE Band 25, 1.4MHz 16QAM									
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D				Part 24			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1850.7MHz)									
3.701	-13.5	H	3.0	38.0	1.0	-50.6	-13.0	-37.6	
3.552	-12.3	H	3.0	37.4	1.0	-48.7	-13.0	-35.7	
3.701	-14.3	V	3.0	38.0	1.0	-51.4	-13.0	-38.4	
5.552	-14.0	V	3.0	37.4	1.0	-50.4	-13.0	-37.4	
Mid Channel (1882.5MHz)									
3.765	-14.2	H	3.0	38.0	1.0	-51.2	-13.0	-38.2	
5.648	-13.4	H	3.0	37.3	1.0	-49.7	-13.0	-36.7	
3.765	-14.2	V	3.0	38.0	1.0	-51.2	-13.0	-38.2	
5.648	-8.3	V	3.0	37.3	1.0	-44.6	-13.0	-31.6	
High Channel (1914.3MHz)									
3.829	-14.7	H	3.0	37.9	1.0	-51.7	-13.0	-38.7	
5.743	-11.9	H	3.0	37.3	1.0	-48.3	-13.0	-35.3	
3.829	-12.3	V	3.0	37.9	1.0	-49.3	-13.0	-36.3	
5.743	-13.4	V	3.0	37.3	1.0	-49.7	-13.0	-36.7	

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LAT QPSK EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement																	
Company:																	
Project #:		14U17676															
Date:		06/20/14															
Test Engineer:		T Wang															
Configuration:		EUT only															
Mode:		LTE Band 25, 3MHz QPSK															
<u>Test Equipment:</u>																	
Substitution: Horn T59 Substitution, and 8ft SMA Cable																	
Chamber			Pre-amplifier			Filter		Limit									
3m Chamber D			3m Chamber D					Part 24									
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes								
Low Channel (1851.5MHz)																	
3.703	-14.9	H	3.0	38.0	1.0	-52.0	-13.0	-39.0									
5.555	-12.9	H	3.0	37.4	1.0	-49.3	-13.0	-36.3									
3.703	-14.6	V	3.0	38.0	1.0	-51.7	-13.0	-38.7									
5.555	-13.8	V	3.0	37.4	1.0	-50.2	-13.0	-37.2									
Mid Channel (1882.5MHz)																	
3.765	-14.7	H	3.0	38.0	1.0	-51.7	-13.0	-38.7									
5.648	-11.0	H	3.0	37.3	1.0	-47.3	-13.0	-34.3									
3.765	-13.9	V	3.0	38.0	1.0	-50.9	-13.0	-37.9									
5.648	-13.9	V	3.0	37.3	1.0	-50.2	-13.0	-37.2									
High Channel (1913.5MHz)																	
3.827	-13.9	H	3.0	37.9	1.0	-50.9	-13.0	-37.9									
5.741	-14.1	H	3.0	37.3	1.0	-50.5	-13.0	-37.5									
3.827	-13.1	V	3.0	37.9	1.0	-50.1	-13.0	-37.1									
5.741	-12.4	V	3.0	37.3	1.0	-48.7	-13.0	-35.7									
Rev. 03.03.14																	

LAT 16QAM EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: 14U17676
Project #: 14U17676
Date: 06/20/14
Test Engineer: T Wang
Configuration: EUT only
Mode: LTE Band 25, 3MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D		Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1851.5MHz)									
3.703	-14.8	H	3.0	38.0	1.0	51.9	-13.0	-38.9	
5.555	-13.8	H	3.0	37.4	1.0	50.2	-13.0	-37.2	
3.703	-15.6	V	3.0	38.0	1.0	52.7	-13.0	-39.7	
5.555	-13.9	V	3.0	37.4	1.0	50.3	-13.0	-37.3	
Mid Channel (1882.5MHz)									
3.765	-14.8	H	3.0	38.0	1.0	51.8	-13.0	-38.8	
5.648	-11.9	H	3.0	37.3	1.0	48.2	-13.0	-35.2	
3.765	-14.8	V	3.0	38.0	1.0	51.8	-13.0	-38.8	
5.648	-14.0	V	3.0	37.3	1.0	50.3	-13.0	-37.3	
High Channel (1913.5MHz)									
3.827	-14.8	H	3.0	37.9	1.0	51.8	-13.0	-38.8	
5.741	-14.9	H	3.0	37.3	1.0	51.3	-13.0	-38.3	
3.827	-14.0	V	3.0	37.9	1.0	51.0	-13.0	-38.0	
5.741	-13.5	V	3.0	37.3	1.0	49.8	-13.0	-36.8	

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LAT QPSK EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company:
Project #: 14U17676
Date: 06/20/14
Test Engineer: T Wang
Configuration: EUT only
Mode: LTE Band 25, 5MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D		Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.5MHz)									
3.705	-13.8	H	3.0	38.0	1.0	50.9	-13.0	-37.9	
5.065	-13.2	H	3.0	37.5	1.0	49.7	-13.0	-36.7	
3.705	-14.8	V	3.0	38.0	1.0	51.9	-13.0	-38.9	
5.065	-13.0	V	3.0	37.5	1.0	49.5	-13.0	-36.5	
Mid Channel (1882.5MHz)									
3.765	-14.7	H	3.0	38.0	1.0	51.7	-13.0	-38.7	
5.648	-12.8	H	3.0	37.3	1.0	49.1	-13.0	-36.1	
3.765	-13.9	V	3.0	38.0	1.0	50.9	-13.0	-37.9	
5.648	-11.3	V	3.0	37.3	1.0	47.6	-13.0	-34.6	
High Channel (1912.5MHz)									
3.825	-13.7	H	3.0	37.9	1.0	50.7	-13.0	-37.7	
5.738	-12.3	H	3.0	37.3	1.0	48.7	-13.0	-35.7	
3.825	-13.0	V	3.0	37.9	1.0	49.9	-13.0	-36.9	
5.738	-11.0	V	3.0	37.3	1.0	47.3	-13.0	-34.3	

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LAT 16QAM EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Company:									
Project #:	14U17676								
Date:	06/20/14								
Test Engineer:	T Wang								
Configuration:	EUT only								
Mode:	LTE Band 25, 5MHz 16QAM								
<u>Test Equipment:</u>									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D				Part 24			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.5MHz)									
3.705	-13.9	H	3.0	38.0	1.0	-51.0	-13.0	-38.0	
5.065	-14.0	H	3.0	37.5	1.0	-50.5	-13.0	-37.5	
3.705	-15.8	V	3.0	38.0	1.0	-52.9	-13.0	-39.9	
5.065	-14.1	V	3.0	37.5	1.0	-50.6	-13.0	-37.6	
Mid Channel (1882.5MHz)									
3.765	-15.7	H	3.0	38.0	1.0	-52.7	-13.0	-39.7	
5.648	-13.7	H	3.0	37.3	1.0	-50.0	-13.0	-37.0	
3.765	-14.8	V	3.0	38.0	1.0	-51.8	-13.0	-38.8	
5.648	-12.4	V	3.0	37.3	1.0	-48.7	-13.0	-35.7	
High Channel (1912.5MHz)									
3.825	-14.5	H	3.0	37.9	1.0	-51.5	-13.0	-38.5	
5.738	-13.3	H	3.0	37.3	1.0	-49.7	-13.0	-36.7	
3.825	-14.0	V	3.0	37.9	1.0	-50.9	-13.0	-37.9	
5.738	-12.0	V	3.0	37.3	1.0	-48.3	-13.0	-35.3	

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LAT QPSK EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Company:									
Project #:	14U17676								
Date:	6/20/2014								
Test Engineer:	T Wang								
Configuration:	EUT only								
Mode:	LTE Band 25, 10MHz QPSK								
<u>Test Equipment:</u>									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D				Part 24			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1855MHz)									
3.710	-13.3	H	3.0	38.0	1.0	-50.3	-13.0	-37.3	
5.565	-13.5	H	3.0	37.4	1.0	-49.9	-13.0	-36.9	
3.710	-14.4	V	3.0	38.0	1.0	-51.4	-13.0	-38.4	
5.565	-13.4	V	3.0	37.4	1.0	-49.8	-13.0	-36.8	
Mid Channel (1882.5MHz)									
3.765	-13.2	H	3.0	38.0	1.0	-50.2	-13.0	-37.2	
5.648	-13.5	H	3.0	37.3	1.0	-49.8	-13.0	-36.8	
3.765	-13.7	V	3.0	38.0	1.0	-50.7	-13.0	-37.7	
5.648	-13.4	V	3.0	37.3	1.0	-49.7	-13.0	-36.7	
High Channel (1910MHz)									
3.820	-14.2	H	3.0	37.9	1.0	-51.2	-13.0	-38.2	
5.730	-13.3	H	3.0	37.3	1.0	-49.6	-13.0	-36.6	
3.820	-14.2	V	3.0	37.9	1.0	-51.1	-13.0	-38.1	
5.730	-13.9	V	3.0	37.3	1.0	-50.2	-13.0	-37.2	
Rev. 03.03.14									

LAT 16QAM EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Company:									
Project #:	14U17676								
Date:	6/20/2014								
Test Engineer:	T Wang								
Configuration:	EUT only								
Mode:	LTE Band 25, 10MHz 16QAM								
<u>Test Equipment:</u>									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber D		3m Chamber D				Part 24			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1855MHz)									
3.710	-14.4	H	3.0	38.0	1.0	-51.4	-13.0	-38.4	
5.565	-13.0	H	3.0	37.4	1.0	-49.4	-13.0	-36.4	
3.710	-14.4	V	3.0	38.0	1.0	-51.4	-13.0	-38.4	
5.565	-14.4	V	3.0	37.4	1.0	-50.8	-13.0	-37.8	
Mid Channel (1882.5MHz)									
3.765	-14.2	H	3.0	38.0	1.0	-51.2	-13.0	-38.2	
5.648	-14.5	H	3.0	37.3	1.0	-50.8	-13.0	-37.8	
3.765	-14.6	V	3.0	38.0	1.0	-51.6	-13.0	-38.6	
5.648	-14.5	V	3.0	37.3	1.0	-50.8	-13.0	-37.8	
High Channel (1910MHz)									
3.820	-15.1	H	3.0	37.9	1.0	-52.1	-13.0	-39.1	
5.730	-14.4	H	3.0	37.3	1.0	-50.7	-13.0	-37.7	
3.820	-15.1	V	3.0	37.9	1.0	-52.0	-13.0	-39.0	
5.730	-14.7	V	3.0	37.3	1.0	-51.0	-13.0	-38.0	
Rev. 03.03.14									

LAT QPSK EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company:
Project #: 14U17676
Date: 06/20/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 25, 15MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D		Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1857.5MHz)									
3.72	-14.0	H	3.0	38.0	1.0	-51.1	-13.0	-38.1	
5.57	-12.8	H	3.0	37.4	1.0	-49.2	-13.0	-36.2	
3.72	-14.0	V	3.0	38.0	1.0	-51.0	-13.0	-38.0	
5.57	-13.2	V	3.0	37.4	1.0	-49.6	-13.0	-36.6	
Mid Channel (1882.5MHz)									
3.77	-14.7	H	3.0	38.0	1.0	-51.7	-13.0	-38.7	
5.65	-12.7	H	3.0	37.3	1.0	-49.1	-13.0	-36.1	
3.77	-14.8	V	3.0	38.0	1.0	-51.8	-13.0	-38.8	
5.65	-12.8	V	3.0	37.3	1.0	-49.1	-13.0	-36.1	
High Channel (1907.5MHz)									
3.82	-14.0	H	3.0	37.9	1.0	-51.0	-13.0	-38.0	
5.72	-11.9	H	3.0	37.3	1.0	-48.2	-13.0	-35.2	
3.82	-13.0	V	3.0	37.9	1.0	-49.9	-13.0	-36.9	
5.72	-13.1	V	3.0	37.3	1.0	-49.5	-13.0	-36.5	

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LAT 16QAM EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company:
Project #: 14U17676
Date: 06/20/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 25, 15MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D		Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1857.5MHz)									
3.715	-14.1	H	3.0	38.0	1.0	-51.1	-13.0	-38.1	
5.573	-13.0	H	3.0	37.4	1.0	-49.4	-13.0	-36.4	
3.715	-14.6	V	3.0	38.0	1.0	-51.7	-13.0	-38.7	
5.573	-13.3	V	3.0	37.4	1.0	-49.7	-13.0	-36.7	
Mid Channel (1882.5MHz)									
3.765	-13.6	H	3.0	38.0	1.0	-50.6	-13.0	-37.6	
5.648	-13.0	H	3.0	37.3	1.0	-49.3	-13.0	-36.3	
3.765	-14.6	V	3.0	38.0	1.0	-51.6	-13.0	-38.6	
5.648	-13.4	V	3.0	37.3	1.0	-49.8	-13.0	-36.8	
High Channel (1907.5MHz)									
3.815	-14.2	H	3.0	37.9	1.0	-51.1	-13.0	-38.1	
5.723	-12.8	H	3.0	37.3	1.0	-49.1	-13.0	-36.1	
3.815	-14.2	V	3.0	37.9	1.0	-51.1	-13.0	-38.1	
5.723	-13.2	V	3.0	37.3	1.0	-49.5	-13.0	-36.5	

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LAT QPSK EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company:
Project #: 14U17676
Date: 06/20/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 25, 20MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D	2.5G HP Filter	Part 24						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1860MHz)									
3.720	-13.4	H	3.0	38.0	1.0	-50.4	-13.0	-37.4	
5.580	-12.6	H	3.0	37.4	1.0	-48.9	-13.0	-35.9	
3.720	-14.1	V	3.0	38.0	1.0	-51.1	-13.0	-38.1	
5.580	-12.7	V	3.0	37.4	1.0	-49.0	-13.0	-36.0	
Mid Channel (1882.5MHz)									
3.765	-13.7	H	3.0	38.0	1.0	-50.7	-13.0	-37.7	
5.648	-12.4	H	3.0	37.3	1.0	-48.7	-13.0	-35.7	
3.765	-13.6	V	3.0	38.0	1.0	-50.6	-13.0	-37.6	
5.648	-13.5	V	3.0	37.3	1.0	-49.9	-13.0	-36.9	
High Channel (1905MHz)									
3.810	-13.7	H	3.0	37.9	1.0	-50.6	-13.0	-37.6	
5.715	-12.9	H	3.0	37.3	1.0	-49.2	-13.0	-36.2	
3.810	-13.9	V	3.0	37.9	1.0	-50.9	-13.0	-37.9	
5.715	-11.8	V	3.0	37.3	1.0	-48.1	-13.0	-35.1	

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LAT 16QAM EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company:
Project #: 14U17676
Date: 06/20/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 25, 20MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D	2.5G HP Filter	Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1860MHz)									
3.720	-14.3	H	3.0	38.0	1.0	-51.3	-13.0	-38.3	
5.580	-12.5	H	3.0	37.4	1.0	-48.9	-13.0	-35.9	
3.720	-14.3	V	3.0	38.0	1.0	-51.3	-13.0	-38.3	
5.580	-13.3	V	3.0	37.4	1.0	-49.7	-13.0	-36.7	
Mid Channel (1882.5MHz)									
3.765	-14.1	H	3.0	38.0	1.0	-51.1	-13.0	-38.1	
5.648	-12.4	H	3.0	37.3	1.0	-48.8	-13.0	-35.8	
3.765	-13.9	V	3.0	38.0	1.0	-50.9	-13.0	-37.9	
5.648	-13.3	V	3.0	37.3	1.0	-49.6	-13.0	-36.6	
High Channel (1905MHz)									
3.810	-13.7	H	3.0	37.9	1.0	-50.7	-13.0	-37.7	
5.715	-12.6	H	3.0	37.3	1.0	-48.9	-13.0	-35.9	
3.810	-12.6	V	3.0	37.9	1.0	-49.6	-13.0	-36.6	
5.715	-13.3	V	3.0	37.3	1.0	-49.6	-13.0	-36.6	

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UAT QPSK EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 1.4MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D		Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1850.7MHz)									
3.701	-18.0	H	3.0	38.0	1.0	-55.1	-13.0	-42.1	
5.552	-16.6	H	3.0	37.4	1.0	-53.0	-13.0	-40.0	
3.701	-17.5	V	3.0	38.0	1.0	-54.5	-13.0	-41.5	
5.552	-17.6	V	3.0	37.4	1.0	-54.0	-13.0	-41.0	
Mid Channel (1882.5MHz)									
3.765	-18.8	H	3.0	38.0	1.0	-55.8	-13.0	-42.8	
5.648	-18.5	H	3.0	37.3	1.0	-54.9	-13.0	-41.9	
3.765	-19.2	V	3.0	38.0	1.0	-56.2	-13.0	-43.2	
5.648	-17.0	V	3.0	37.3	1.0	-53.3	-13.0	-40.3	
High Channel (1914.3MHz)									
3.829	-18.9	H	3.0	37.9	1.0	-55.8	-13.0	-42.8	
5.743	-18.5	H	3.0	37.3	1.0	-54.8	-13.0	-41.8	
3.829	-18.1	V	3.0	37.9	1.0	-55.0	-13.0	-42.0	
5.743	-17.2	V	3.0	37.3	1.0	-53.5	-13.0	-40.5	

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UAT 16QAM EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 1.4MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D		Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1850.7MHz)									
3.701	-19.4	H	3.0	38.0	1.0	-56.4	-13.0	-43.4	
3.552	-17.4	H	3.0	37.4	1.0	-53.8	-13.0	-40.8	
3.701	-16.5	V	3.0	38.0	1.0	-53.5	-13.0	-40.5	
5.552	-18.1	V	3.0	37.4	1.0	-54.5	-13.0	-41.5	
Mid Channel (1882.5MHz)									
3.765	-20.3	H	3.0	38.0	1.0	-57.3	-13.0	-44.3	
5.648	-18.1	H	3.0	37.3	1.0	-54.5	-13.0	-41.5	
3.765	-18.9	V	3.0	38.0	1.0	-55.8	-13.0	-42.8	
5.648	-16.9	V	3.0	37.3	1.0	-53.2	-13.0	-40.2	
High Channel (1914.3MHz)									
3.829	-19.7	H	3.0	37.9	1.0	-56.7	-13.0	-43.7	
5.743	-16.9	H	3.0	37.3	1.0	-53.2	-13.0	-40.2	
3.829	-17.4	V	3.0	37.9	1.0	-54.3	-13.0	-41.3	
5.743	-17.7	V	3.0	37.3	1.0	-54.0	-13.0	-41.0	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 3MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D		Part 24						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1851.5MHz)									
3.703	-19.1	H	3.0	38.0	1.0	-56.2	-13.0	-43.2	
5.555	-17.6	H	3.0	37.4	1.0	-53.9	-13.0	-40.9	
3.703	-18.7	V	3.0	38.0	1.0	-55.7	-13.0	-42.7	
5.555	-17.5	V	3.0	37.4	1.0	-53.8	-13.0	-40.8	
Mid Channel (1882.5MHz)									
3.765	-17.7	H	3.0	38.0	1.0	-54.7	-13.0	-41.7	
5.648	-17.7	H	3.0	37.3	1.0	-54.1	-13.0	-41.1	
3.765	-19.8	V	3.0	38.0	1.0	-56.8	-13.0	-43.8	
5.648	-18.6	V	3.0	37.3	1.0	-55.0	-13.0	-42.0	
High Channel (1913.5MHz)									
3.827	-17.1	H	3.0	37.9	1.0	-54.1	-13.0	-41.1	
5.741	-16.3	H	3.0	37.3	1.0	-52.6	-13.0	-39.6	
3.827	-18.8	V	3.0	37.9	1.0	-55.8	-13.0	-42.8	
5.741	-17.7	V	3.0	37.3	1.0	-54.0	-13.0	-41.0	

Rev. 03.03.14

UAT 16QAM EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 3MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D		Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1851.5MHz)									
3.703	-19.2	H	3.0	38.0	1.0	56.2	-13.0	-43.2	
5.555	-16.9	H	3.0	37.4	1.0	53.3	-13.0	-40.3	
3.703	-17.3	V	3.0	38.0	1.0	54.4	-13.0	-41.4	
5.555	-18.0	V	3.0	37.4	1.0	54.4	-13.0	-41.4	
Mid Channel (1882.5MHz)									
3.765	-18.3	H	3.0	38.0	1.0	55.3	-13.0	-42.3	
5.648	-17.8	H	3.0	37.3	1.0	54.2	-13.0	-41.2	
3.765	-19.8	V	3.0	38.0	1.0	56.8	-13.0	-43.8	
5.648	-19.0	V	3.0	37.3	1.0	55.3	-13.0	-42.3	
High Channel (1913.5MHz)									
3.827	-17.8	H	3.0	37.9	1.0	54.7	-13.0	-41.7	
5.741	-16.7	H	3.0	37.3	1.0	53.0	-13.0	-40.0	
3.827	-19.0	V	3.0	37.9	1.0	56.0	-13.0	-43.0	
5.741	-17.4	V	3.0	37.3	1.0	53.8	-13.0	-40.8	

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UAT QPSK EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 5MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D		Part 24						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.5MHz)									
3.705	-19.2	H	3.0	38.0	1.0	56.2	-13.0	-43.2	
5.065	-18.8	H	3.0	37.5	1.0	55.3	-13.0	-42.3	
3.705	-18.0	V	3.0	38.0	1.0	55.1	-13.0	-42.1	
5.065	-18.8	V	3.0	37.5	1.0	55.3	-13.0	-42.3	
Mid Channel (1882.5MHz)									
3.765	-18.7	H	3.0	38.0	1.0	55.7	-13.0	-42.7	
5.648	-17.8	H	3.0	37.3	1.0	54.1	-13.0	-41.1	
3.765	-18.5	V	3.0	38.0	1.0	55.5	-13.0	-42.5	
5.648	-17.4	V	3.0	37.3	1.0	53.7	-13.0	-40.7	
High Channel (1912.5MHz)									
3.825	-20.0	H	3.0	37.9	1.0	56.9	-13.0	-43.9	
5.738	-16.9	H	3.0	37.3	1.0	53.3	-13.0	-40.3	
3.825	-19.8	V	3.0	37.9	1.0	56.7	-13.0	-43.7	
5.738	-17.2	V	3.0	37.3	1.0	53.5	-13.0	-40.5	

Rev. 03.03.14

UAT 16QAM EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 5MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D		Part 24						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.5MHz)									
3.705	-19.4	H	3.0	38.0	1.0	-56.4	-13.0	-43.4	
5.065	-17.8	H	3.0	37.5	1.0	-54.3	-13.0	-41.3	
3.705	-19.4	V	3.0	38.0	1.0	-56.4	-13.0	-43.4	
5.065	-18.8	V	3.0	37.5	1.0	-55.3	-13.0	-42.3	
Mid Channel (1882.5MHz)									
3.765	-20.2	H	3.0	38.0	1.0	-57.1	-13.0	-44.1	
5.648	-18.6	H	3.0	37.3	1.0	-54.9	-13.0	-41.9	
3.765	-18.8	V	3.0	38.0	1.0	-55.8	-13.0	-42.8	
5.648	-18.1	V	3.0	37.3	1.0	-54.4	-13.0	-41.4	
High Channel (1912.5MHz)									
3.825	-19.5	H	3.0	37.9	1.0	-56.4	-13.0	-43.4	
5.738	-17.6	H	3.0	37.3	1.0	-53.9	-13.0	-40.9	
3.825	-19.4	V	3.0	37.9	1.0	-56.4	-13.0	-43.4	
5.738	-18.6	V	3.0	37.3	1.0	-54.9	-13.0	-41.9	

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UAT QPSK EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 10MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D		Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1855MHz)									
3.710	-18.3	H	3.0	38.0	1.0	-55.3	-13.0	-42.3	
5.565	-17.0	H	3.0	37.4	1.0	-53.3	-13.0	-40.3	
3.710	-19.0	V	3.0	38.0	1.0	-56.1	-13.0	-43.1	
5.565	-17.0	V	3.0	37.4	1.0	-53.4	-13.0	-40.4	
Mid Channel (1882.5MHz)									
3.765	-15.4	H	3.0	38.0	1.0	-52.4	-13.0	-39.4	
5.648	-18.3	H	3.0	37.3	1.0	-54.7	-13.0	-41.7	
3.765	-19.6	V	3.0	38.0	1.0	-56.6	-13.0	-43.6	
5.648	-18.6	V	3.0	37.3	1.0	-54.9	-13.0	-41.9	
High Channel (1910MHz)									
3.820	-20.1	H	3.0	37.9	1.0	-57.1	-13.0	-44.1	
5.730	-17.5	H	3.0	37.3	1.0	-53.8	-13.0	-40.8	
3.820	-19.1	V	3.0	37.9	1.0	-56.0	-13.0	-43.0	
5.730	-17.9	V	3.0	37.3	1.0	-54.2	-13.0	-41.2	

Rev. 03.03.14

UAT 16QAM EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 10MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D		Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1855MHz)									
3.710	-20.0	H	3.0	38.0	1.0	-57.1	-13.0	-44.1	
5.565	-17.9	H	3.0	37.4	1.0	-54.3	-13.0	-41.3	
3.710	-19.1	V	3.0	38.0	1.0	-56.2	-13.0	-43.2	
5.565	-18.2	V	3.0	37.4	1.0	-54.6	-13.0	-41.6	
Mid Channel (1882.5MHz)									
3.765	-19.1	H	3.0	38.0	1.0	-56.1	-13.0	-43.1	
5.648	-18.6	H	3.0	37.3	1.0	-54.9	-13.0	-41.9	
3.765	-19.3	V	3.0	38.0	1.0	-56.2	-13.0	-43.2	
5.648	-17.8	V	3.0	37.3	1.0	-54.2	-13.0	-41.2	
High Channel (1910MHz)									
3.820	-20.0	H	3.0	37.9	1.0	-57.0	-13.0	-44.0	
5.730	-16.4	H	3.0	37.3	1.0	-52.8	-13.0	-39.8	
3.820	-19.6	V	3.0	37.9	1.0	-56.6	-13.0	-43.6	
5.730	-17.6	V	3.0	37.3	1.0	-54.0	-13.0	-41.0	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 15MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber D	3m Chamber D		Part 24						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1857.5MHz)									
3.72	-19.1	H	3.0	38.0	1.0	-56.2	-13.0	-43.2	
5.57	-17.9	H	3.0	37.4	1.0	-54.2	-13.0	-41.2	
3.72	-19.9	V	3.0	38.0	1.0	-56.9	-13.0	-43.9	
5.57	-17.9	V	3.0	37.4	1.0	-54.2	-13.0	-41.2	
Mid Channel (1882.5MHz)									
3.77	-20.2	H	3.0	38.0	1.0	-57.2	-13.0	-44.2	
5.65	-17.7	H	3.0	37.3	1.0	-54.0	-13.0	-41.0	
3.77	-19.9	V	3.0	38.0	1.0	-56.9	-13.0	-43.9	
5.65	-18.9	V	3.0	37.3	1.0	-55.2	-13.0	-42.2	
High Channel (1907.5MHz)									
3.82	-19.3	H	3.0	37.9	1.0	-56.3	-13.0	-43.3	
5.72	-18.2	H	3.0	37.3	1.0	-54.5	-13.0	-41.5	
3.82	-18.9	V	3.0	37.9	1.0	-55.8	-13.0	-42.8	
5.72	-18.2	V	3.0	37.3	1.0	-54.5	-13.0	-41.5	

Rev. 03.03.14

UAT 16QAM EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 15MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D		Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1857.5MHz)									
3.715	-19.1	H	3.0	38.0	1.0	-56.1	-13.0	-43.1	
5.573	-17.7	H	3.0	37.4	1.0	-54.0	-13.0	-41.0	
3.715	-19.8	V	3.0	38.0	1.0	-56.8	-13.0	-43.8	
5.573	-18.0	V	3.0	37.4	1.0	-54.3	-13.0	-41.3	
Mid Channel (1882.5MHz)									
3.765	-20.3	H	3.0	38.0	1.0	-57.2	-13.0	-44.2	
5.648	-17.8	H	3.0	37.3	1.0	-54.1	-13.0	-41.1	
3.765	-19.9	V	3.0	38.0	1.0	-56.9	-13.0	-43.9	
5.648	-18.8	V	3.0	37.3	1.0	-55.2	-13.0	-42.2	
High Channel (1907.5MHz)									
3.815	-19.3	H	3.0	37.9	1.0	-56.3	-13.0	-43.3	
5.723	-18.2	H	3.0	37.3	1.0	-54.5	-13.0	-41.5	
3.815	-18.9	V	3.0	37.9	1.0	-55.8	-13.0	-42.8	
5.723	-18.2	V	3.0	37.3	1.0	-54.5	-13.0	-41.5	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 20MHz QPSK

Test Equipment:

Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber		Pre-amplifier		Filter		Limit	
3m Chamber D		3m Chamber D		2.5G HP Filter		Part 24	
Frequency (GHz)							
SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta
Low Channel (1860MHz)							
3.720	-17.9	H	3.0	38.0	1.0	-54.9	-13.0
5.580	-17.8	H	3.0	37.4	1.0	-54.1	-13.0
3.720	-20.8	V	3.0	38.0	1.0	-57.8	-13.0
5.580	-17.4	V	3.0	37.4	1.0	-53.8	-13.0
Mid Channel (1882.5MHz)							
3.765	-18.1	H	3.0	38.0	1.0	-55.1	-13.0
5.648	-17.5	H	3.0	37.3	1.0	-53.8	-13.0
3.765	-19.2	V	3.0	38.0	1.0	-56.2	-13.0
5.648	-18.7	V	3.0	37.3	1.0	-55.1	-13.0
High Channel (1905MHz)							
3.810	-16.5	H	3.0	37.9	1.0	-53.5	-13.0
5.715	-17.8	H	3.0	37.3	1.0	-54.2	-13.0
3.810	-15.1	V	3.0	37.9	1.0	-52.1	-13.0
5.715	-18.3	V	3.0	37.3	1.0	-54.6	-13.0

Rev. 03.03.14

UAT 16QAM EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 20MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber D	3m Chamber D	2.5G HP Filter	Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1860MHz)									
3.720	-20.4	H	3.0	38.0	1.0	-57.5	-13.0	-44.5	
5.580	-18.2	H	3.0	37.4	1.0	-54.5	-13.0	-41.5	
3.720	-21.2	V	3.0	38.0	1.0	-58.2	-13.0	-45.2	
5.580	-18.4	V	3.0	37.4	1.0	-54.7	-13.0	-41.7	
Mid Channel (1882.5MHz)									
3.765	-19.9	H	3.0	38.0	1.0	-56.9	-13.0	-43.9	
5.648	-17.9	H	3.0	37.3	1.0	-54.3	-13.0	-41.3	
3.765	-19.6	V	3.0	38.0	1.0	-56.6	-13.0	-43.6	
5.648	-18.5	V	3.0	37.3	1.0	-54.9	-13.0	-41.9	
High Channel (1905MHz)									
3.810	-17.0	H	3.0	37.9	1.0	-53.9	-13.0	-40.9	
5.715	-17.2	H	3.0	37.3	1.0	-53.5	-13.0	-40.5	
3.810	-14.9	V	3.0	37.9	1.0	-51.8	-13.0	-38.8	
5.715	-17.3	V	3.0	37.3	1.0	-53.6	-13.0	-40.6	

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9.3.7. LTE BAND 26

LAT QPSK EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: E Yu
Configuration: EUT Only
Mode: LTE Band 26, 3MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (815.5MHz)									
1.631	-11.8	H	3.0	34.9	1.0	-45.8	-13.0	-32.8	
2.447	-10.1	H	3.0	35.5	1.0	-44.6	-13.0	-31.6	
1.631	-15.0	V	3.0	34.9	1.0	-48.9	-13.0	-35.9	
2.447	-14.9	V	3.0	35.5	1.0	-49.4	-13.0	-36.4	
Mid Channel (831.5MHz)									
1.663	-10.8	H	3.0	34.9	1.0	-44.7	-13.0	-31.7	
2.495	-9.7	H	3.0	35.3	1.0	-44.0	-13.0	-31.0	
1.663	-13.0	V	3.0	34.9	1.0	-46.9	-13.0	-33.9	
2.495	-14.1	V	3.0	35.3	1.0	-48.4	-13.0	-35.4	
High Channel (847.5MHz)									
1.695	-11.1	H	3.0	34.9	1.0	-45.0	-13.0	-32.0	
2.543	-13.0	H	3.0	35.4	1.0	-47.4	-13.0	-34.4	
1.695	-11.1	V	3.0	34.9	1.0	-45.0	-13.0	-32.0	
2.543	-13.2	V	3.0	35.4	1.0	-47.6	-13.0	-34.6	

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LAT 16QAM EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: E.Yu
Configuration: EUT Only
Mode: LTE Band 26, 3MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (815.5MHz)									
1.631	-11.5	H	3.0	34.9	1.0	45.4	-13.0	32.4	
2.447	-10.1	H	3.0	35.5	1.0	44.6	-13.0	31.6	
1.631	-13.6	V	3.0	34.9	1.0	47.6	-13.0	34.6	
2.447	-15.0	V	3.0	35.5	1.0	49.5	-13.0	36.5	
Mid Channel (831.5MHz)									
1.663	-10.2	H	3.0	34.9	1.0	44.1	-13.0	31.1	
2.495	-10.3	H	3.0	35.3	1.0	44.6	-13.0	31.6	
1.663	-13.7	V	3.0	34.9	1.0	47.5	-13.0	34.5	
2.495	-13.4	V	3.0	35.3	1.0	47.7	-13.0	34.7	
High Channel (847.5MHz)									
1.695	-12.5	H	3.0	34.9	1.0	46.4	-13.0	33.4	
2.543	-14.0	H	3.0	35.4	1.0	48.3	-13.0	35.3	
1.695	-11.8	V	3.0	34.9	1.0	45.7	-13.0	32.7	
2.543	-13.8	V	3.0	35.4	1.0	48.2	-13.0	35.2	

Rev. 03.03.14

LAT QPSK EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: E.Yu
Configuration: EUT Only
Mode: LTE Band 26, 5MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber F	3m Chamber F		Part 22						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (831.5MHz)									
1.663	-10.2	H	3.0	34.9	1.0	44.1	-13.0	-31.1	
2.495	-8.4	H	3.0	35.3	1.0	42.7	-13.0	-29.7	
1.663	-13.2	V	3.0	34.9	1.0	47.1	-13.0	-34.1	
2.495	-12.0	V	3.0	35.3	1.0	46.3	-13.0	-33.3	

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LAT 16QAM EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: E.Yu
Configuration: EUT Only
Mode: LTE Band 26, 5MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (831.5MHz)									
1.663	-10.8	H	3.0	34.9	1.0	.44.7	-13.0	-31.7	
2.495	-9.1	H	3.0	35.3	1.0	.43.4	-13.0	-30.4	
1.663	-12.3	V	3.0	34.9	1.0	.46.2	-13.0	-33.2	
2.495	-12.0	V	3.0	35.3	1.0	.46.3	-13.0	-33.3	

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LAT QPSK EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 07/18/14
Test Engineer: E.Yu
Configuration: EUT Only
Mode: LTE Band 26, 10MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F	Filter 01	Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (819MHz)									
1.638	-16.7	H	3.0	34.9	1.0	-50.6	-13.0	-37.6	
2.442	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
1.638	-15.4	V	3.0	34.9	1.0	-49.3	-13.0	-36.3	
2.442	-11.9	V	3.0	35.5	1.0	-46.4	-13.0	-33.4	

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LAT 16QAM EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 07/18/14
Test Engineer: E.Yu
Configuration: EUT Only
Mode: LTE Band 26, 10MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F	Filter 01	Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (819MHz)									
1.638	-15.0	H	3.0	34.9	1.0	48.9	-13.0	-35.9	
2.442	-14.8	H	3.0	35.5	1.0	49.3	-13.0	-36.3	
1.638	-15.3	V	3.0	34.9	1.0	49.2	-13.0	-36.2	
2.442	-12.0	V	3.0	35.5	1.0	46.5	-13.0	-33.5	

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UAT QPSK EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement

Project #: 14U17676
Date: 06/21/14
Test Engineer: E. Yu
Configuration: EUT Only
Mode: LTE Band 26, 3MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber F	3m Chamber F		Part 22						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (815.5MHz)									
1.631	-14.1	H	3.0	34.9	1.0	-48.0	-13.0	-35.0	
2.447	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
1.631	-16.3	V	3.0	34.9	1.0	-50.2	-13.0	-37.2	
2.447	-13.8	V	3.0	35.5	1.0	-48.3	-13.0	-35.3	
Mid Channel (831.5MHz)									
1.663	-12.2	H	3.0	34.9	1.0	-46.1	-13.0	-33.1	
2.495	-14.6	H	3.0	35.3	1.0	-48.9	-13.0	-35.9	
1.663	-13.6	V	3.0	34.9	1.0	-47.5	-13.0	-34.5	
2.495	-14.9	V	3.0	35.3	1.0	-49.2	-13.0	-36.2	
High Channel (847.5MHz)									
1.695	-11.7	H	3.0	34.9	1.0	-45.6	-13.0	-32.6	
2.543	-14.6	H	3.0	35.4	1.0	-49.0	-13.0	-36.0	
1.695	-13.9	V	3.0	34.9	1.0	-47.7	-13.0	-34.7	
2.543	-12.9	V	3.0	35.4	1.0	-47.3	-13.0	-34.3	
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UAT 16QAM EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: E.Yu
Configuration: EUT Only
Mode: LTE Band 26, 3MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (815.5MHz)									
1.631	-13.3	H	3.0	34.9	1.0	47.2	-13.0	34.2	
2.447	-16.1	H	3.0	35.5	1.0	50.6	-13.0	37.6	
1.631	-17.2	V	3.0	34.9	1.0	51.1	-13.0	38.1	
2.447	-14.6	V	3.0	35.5	1.0	49.1	-13.0	36.1	
Mid Channel (831.5MHz)									
1.663	-12.6	H	3.0	34.9	1.0	46.5	-13.0	33.5	
2.495	-15.1	H	3.0	35.3	1.0	49.4	-13.0	36.4	
1.663	-14.2	V	3.0	34.9	1.0	48.1	-13.0	35.1	
2.495	-15.4	V	3.0	35.3	1.0	49.7	-13.0	36.7	
High Channel (847.5MHz)									
1.695	-10.8	H	3.0	34.9	1.0	44.7	-13.0	31.7	
2.543	-14.0	H	3.0	35.4	1.0	48.4	-13.0	35.4	
1.695	-14.4	V	3.0	34.9	1.0	48.2	-13.0	35.2	
2.543	-15.1	V	3.0	35.4	1.0	49.5	-13.0	36.5	

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UAT QPSK EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/21/14							
Test Engineer:		E.Yu							
Configuration:		EUT Only							
Mode:		LTE Band 26, 5MHz QPSK							
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber F		3m Chamber F				Part 22			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (831.5MHz)									
1.663	-13.2	H	3.0	34.9	1.0	-47.1	-13.0	-34.1	
2.495	-14.2	H	3.0	35.3	1.0	-48.5	-13.0	-35.5	
1.663	-15.7	V	3.0	34.9	1.0	-49.6	-13.0	-36.6	
2.495	-14.7	V	3.0	35.3	1.0	-49.0	-13.0	-36.0	

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UAT 16QAM EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/21/14
Test Engineer: E.Yu
Configuration: EUT Only
Mode: LTE Band 26, 5MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (831.5MHz)									
1.663	-14.0	H	3.0	34.9	1.0	.47.9	-13.0	-34.9	
2.495	-12.4	H	3.0	35.3	1.0	.46.7	-13.0	-33.7	
1.663	-15.4	V	3.0	34.9	1.0	.49.3	-13.0	-36.3	
2.495	-14.3	V	3.0	35.3	1.0	.48.6	-13.0	-35.6	

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UAT QPSK EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 07/18/14
Test Engineer: E.Yu
Configuration: EUT Only
Mode: LTE Band 26, 10MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber F	3m Chamber F	Filter 01	Part 22						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (819MHz)									
1.638	-18.5	H	3.0	34.9	1.0	-52.4	-13.0	-39.4	
2.442	-16.4	H	3.0	35.5	1.0	-50.9	-13.0	-37.9	
1.638	-17.1	V	3.0	34.9	1.0	-51.0	-13.0	-38.0	
2.442	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	

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UAT 16QAM EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 07/18/14
Test Engineer: E.Yu
Configuration: EUT Only
Mode: LTE Band 26, 10MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F	Filter 01	Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (819MHz)									
1.638	-17.2	H	3.0	34.9	1.0	51.2	-13.0	-38.2	
2.442	-17.1	H	3.0	35.5	1.0	51.6	-13.0	-38.6	
1.638	-17.1	V	3.0	34.9	1.0	51.0	-13.0	-38.0	
2.442	-14.3	V	3.0	35.5	1.0	48.8	-13.0	-35.8	

Rev. 03.03.14

9.3.8. LTE BAND 41

LAT QPSK EIRP POWER FOR LTE BAND 41 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement																	
Project #:		14U17676															
Date:		06/23/14															
Test Engineer:		T Wang															
Configuration:		EUT only															
Mode:		LTE Band 41, 5MHz QPSK															
<u>Test Equipment:</u>																	
Substitution: Horn T59 Substitution, and 8ft SMA Cable																	
Chamber		Pre-amplifier		Filter		Limit											
3m Chamber F		3m Chamber F				Part 27											
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes								
Low Channel (2498.5MHz)																	
4.997	-12.7	H	3.0	35.6	1.0	47.3	-13.0	-34.3									
7.496	-12.0	H	3.0	35.4	1.0	46.4	-13.0	-33.4									
4.997	-14.9	V	3.0	35.6	1.0	49.5	-13.0	-36.5									
7.496	-12.3	V	3.0	35.4	1.0	46.8	-13.0	-33.8									
Mid Channel (2593MHz)																	
5.186	-14.1	H	3.0	35.5	1.0	48.6	-13.0	-35.6									
7.779	-10.5	H	3.0	35.2	1.0	44.6	-13.0	-31.6									
5.186	-13.2	V	3.0	35.5	1.0	47.7	-13.0	-34.7									
7.779	-10.8	V	3.0	35.2	1.0	45.0	-13.0	-32.0									
High Channel (2687.5MHz)																	
5.375	-5.8	H	3.0	35.5	1.0	40.3	-13.0	-27.3									
8.063	-9.6	H	3.0	34.9	1.0	43.5	-13.0	-30.5									
5.375	-13.7	V	3.0	35.5	1.0	48.2	-13.0	-35.2									
8.063	-10.3	V	3.0	34.9	1.0	44.2	-13.0	-31.2									
Rev. 03.03.14																	

LAT 16QAM EIRP POWER FOR LTE BAND 41 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Company:		Apple							
Project #:		14U17673							
Date:		06/11/14							
Test Engineer:		T Wang							
Configuration:		EUT only							
Mode:		LTE Band 41, 5MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber F		3m Chamber F				Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2498.5MHz)									
4.997	-13.6	H	3.0	35.6	1.0	.48.2	-13.0	-35.2	
7.496	-11.8	H	3.0	35.4	1.0	.46.2	-13.0	-33.2	
4.997	-12.8	V	3.0	35.6	1.0	.47.4	-13.0	-34.4	
7.496	-12.6	V	3.0	35.4	1.0	.47.1	-13.0	-34.1	
Mid Channel (2593MHz)									
5.186	-14.2	H	3.0	35.5	1.0	.48.7	-13.0	-35.7	
7.779	-11.3	H	3.0	35.2	1.0	.45.4	-13.0	-32.4	
5.186	-14.1	V	3.0	35.5	1.0	.48.6	-13.0	-35.6	
7.779	-11.1	V	3.0	35.2	1.0	.45.3	-13.0	-32.3	
High Channel (2687.5MHz)									
5.375	-14.9	H	3.0	35.5	1.0	.49.4	-13.0	-36.4	
8.063	-11.1	H	3.0	34.9	1.0	.45.0	-13.0	-32.0	
5.375	-13.9	V	3.0	35.5	1.0	.48.4	-13.0	-35.4	
8.063	-11.4	V	3.0	34.9	1.0	.45.3	-13.0	-32.3	
Rev. 03.03.14									

LAT QPSK EIRP POWER FOR LTE BAND 41 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 6/23/2014
Test Engineer: T Wang
Configuration: EUT Only
Mode: LTE Band 41, 10MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2501MHz)									
5.002	-12.6	H	3.0	35.6	1.0	-47.2	-13.0	-34.2	
7.503	-11.7	H	3.0	35.4	1.0	-46.1	-13.0	-33.1	
5.002	-13.2	V	3.0	35.6	1.0	-47.8	-13.0	-34.8	
7.503	-12.1	V	3.0	35.4	1.0	-46.6	-13.0	-33.6	
Mid Channel (2593MHz)									
5.186	-14.2	H	3.0	35.5	1.0	-48.7	-13.0	-35.7	
7.779	-10.9	H	3.0	35.2	1.0	-45.0	-13.0	-32.0	
5.186	-12.9	V	3.0	35.5	1.0	-47.4	-13.0	-34.4	
7.779	-11.8	V	3.0	35.2	1.0	-46.0	-13.0	-33.0	
High Channel (2685MHz)									
5.370	-11.3	H	3.0	35.5	1.0	-45.8	-13.0	-32.8	
8.055	-9.9	H	3.0	34.9	1.0	-43.8	-13.0	-30.8	
5.370	-13.7	V	3.0	35.5	1.0	-48.2	-13.0	-35.2	
8.055	-9.3	V	3.0	34.9	1.0	-43.2	-13.0	-30.2	

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LAT 16QAM EIRP POWER FOR LTE BAND 41 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 6/23/2014
Test Engineer: T Wang
Configuration: EUT Only
Mode: LTE Band 41, 10MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2501MHz)									
5.002	-13.5	H	3.0	35.6	1.0	.48.1	-13.0	-35.1	
7.503	-12.7	H	3.0	35.4	1.0	.47.1	-13.0	-34.1	
5.002	-14.1	V	3.0	35.6	1.0	.48.7	-13.0	-35.7	
7.503	-13.0	V	3.0	35.4	1.0	.47.5	-13.0	-34.5	
Mid Channel (2593MHz)									
5.186	-15.1	H	3.0	35.5	1.0	.49.6	-13.0	-36.6	
7.779	-11.9	H	3.0	35.2	1.0	.46.0	-13.0	-33.0	
5.186	-13.8	V	3.0	35.5	1.0	.48.3	-13.0	-35.3	
7.779	-12.8	V	3.0	35.2	1.0	.47.0	-13.0	-34.0	
High Channel (2685MHz)									
5.370	-12.4	H	3.0	35.5	1.0	.46.9	-13.0	-33.9	
8.055	-10.9	H	3.0	34.9	1.0	.44.8	-13.0	-31.8	
5.370	-14.2	V	3.0	35.5	1.0	.48.7	-13.0	-35.7	
8.055	-11.0	V	3.0	34.9	1.0	.44.9	-13.0	-31.9	

Rev. 03.03.14

LAT QPSK EIRP POWER FOR LTE BAND 41 (15.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: T Wang
Configuration: EUT only
Mode: LTE Band 41, 15MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2503.5MHz)									
5.007	-14.8	H	3.0	35.6	1.0	-49.4	-13.0	-36.4	
7.511	-11.7	H	3.0	35.4	1.0	-46.1	-13.0	-33.1	
5.007	-13.4	V	3.0	35.6	1.0	-48.0	-13.0	-35.0	
7.511	-12.4	V	3.0	35.4	1.0	-46.8	-13.0	-33.8	
Mid Channel (2593MHz)									
5.186	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8	
7.779	-10.6	H	3.0	35.2	1.0	-44.7	-13.0	-31.7	
5.186	-13.6	V	3.0	35.5	1.0	-48.1	-13.0	-35.1	
7.779	-10.8	V	3.0	35.2	1.0	-45.0	-13.0	-32.0	
High Channel (2682.5MHz)									
5.365	-8.8	H	3.0	35.5	1.0	-43.3	-13.0	-30.3	
8.048	-10.3	H	3.0	34.9	1.0	-44.2	-13.0	-31.2	
5.365	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
8.048	-10.0	V	3.0	34.9	1.0	-44.0	-13.0	-31.0	

Rev. 03.03.14

LAT 16QAM EIRP POWER FOR LTE BAND 41 (15.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: T Wang
Configuration: EUT only
Mode: LTE Band 41, 15MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2503.5MHz)									
5.007	-15.8	H	3.0	35.6	1.0	-50.4	-13.0	-37.4	
7.511	-12.7	H	3.0	35.4	1.0	-47.1	-13.0	-34.1	
5.007	-14.3	V	3.0	35.6	1.0	-48.9	-13.0	-35.9	
7.511	-13.2	V	3.0	35.4	1.0	-47.6	-13.0	-34.6	
Mid Channel (2593MHz)									
5.186	-14.3	H	3.0	35.5	1.0	-48.8	-13.0	-35.8	
7.779	-11.7	H	3.0	35.2	1.0	-45.8	-13.0	-32.8	
5.186	-14.6	V	3.0	35.5	1.0	-49.1	-13.0	-36.1	
7.779	-11.9	V	3.0	35.2	1.0	-46.1	-13.0	-33.1	
High Channel (2682.5MHz)									
5.365	-9.9	H	3.0	35.5	1.0	-44.4	-13.0	-31.4	
8.048	-11.3	H	3.0	34.9	1.0	-45.2	-13.0	-32.2	
5.365	-15.3	V	3.0	35.5	1.0	-49.8	-13.0	-36.8	
8.048	-11.0	V	3.0	34.9	1.0	-45.0	-13.0	-32.0	

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LAT QPSK EIRP POWER FOR LTE BAND 41 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: T Wang
Configuration: EUT only
Mode: LTE Band 41, 20MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit						
3m Chamber F	3m Chamber F		Part 27						
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2506MHz)									
5.012	-12.6	H	3.0	35.6	1.0	47.2	-13.0	-34.2	
7.518	-11.4	H	3.0	35.4	1.0	45.9	-13.0	-32.9	
5.012	-11.7	V	3.0	35.6	1.0	46.3	-13.0	-33.3	
7.518	-11.8	V	3.0	35.4	1.0	46.2	-13.0	-33.2	
Mid Channel (2593MHz)									
5.186	-13.9	H	3.0	35.5	1.0	48.4	-13.0	-35.4	
7.779	-11.2	H	3.0	35.2	1.0	45.3	-13.0	-32.3	
5.186	-13.8	V	3.0	35.5	1.0	48.3	-13.0	-35.3	
7.779	-11.4	V	3.0	35.2	1.0	45.6	-13.0	-32.6	
High Channel (2680MHz)									
5.360	-11.7	H	3.0	35.5	1.0	46.2	-13.0	-33.2	
8.040	-10.4	H	3.0	34.9	1.0	44.3	-13.0	-31.3	
5.360	-14.4	V	3.0	35.5	1.0	48.9	-13.0	-35.9	
8.040	-10.4	V	3.0	34.9	1.0	44.4	-13.0	-31.4	

Rev. 03.03.14

LAT 16QAM EIRP POWER FOR LTE BAND 41 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: T Wang
Configuration: EUT only
Mode: LTE Band 41, 20MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2506MHz)									
5.012	-13.7	H	3.0	35.6	1.0	.48.3	-13.0	-35.3	
7.518	-12.4	H	3.0	35.4	1.0	.46.9	-13.0	-33.9	
5.012	-12.6	V	3.0	35.6	1.0	.47.2	-13.0	-34.2	
7.518	-12.7	V	3.0	35.4	1.0	.47.1	-13.0	-34.1	
Mid Channel (2593MHz)									
5.186	-14.9	H	3.0	35.5	1.0	.49.4	-13.0	-36.4	
7.779	-12.3	H	3.0	35.2	1.0	.46.4	-13.0	-33.4	
5.186	-14.7	V	3.0	35.5	1.0	.49.2	-13.0	-36.2	
7.779	-12.3	V	3.0	35.2	1.0	.46.5	-13.0	-33.5	
High Channel (2680MHz)									
5.360	-12.7	H	3.0	35.5	1.0	.47.2	-13.0	-34.2	
8.040	-11.5	H	3.0	34.9	1.0	.45.4	-13.0	-32.4	
5.360	-15.4	V	3.0	35.5	1.0	.49.9	-13.0	-36.9	
8.040	-11.5	V	3.0	34.9	1.0	.45.5	-13.0	-32.5	

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UAT QPSK EIRP POWER FOR LTE BAND 41 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: T Wang
Configuration: EUT only
Mode: LTE Band 41, 5MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2498.5MHz)									
4.997	-13.1	H	3.0	35.6	1.0	47.7	-13.0	-34.7	
7.496	-11.7	H	3.0	35.4	1.0	46.1	-13.0	-33.1	
4.997	-12.2	V	3.0	35.6	1.0	46.8	-13.0	-33.8	
7.496	-11.3	V	3.0	35.4	1.0	45.8	-13.0	-32.8	
Mid Channel (2593MHz)									
5.186	-13.8	H	3.0	35.5	1.0	48.3	-13.0	-35.3	
7.779	-11.0	H	3.0	35.2	1.0	45.1	-13.0	-32.1	
5.186	-12.9	V	3.0	35.5	1.0	47.4	-13.0	-34.4	
7.779	-10.8	V	3.0	35.2	1.0	45.0	-13.0	-32.0	
High Channel (2687.5MHz)									
5.375	-14.0	H	3.0	35.5	1.0	48.5	-13.0	-35.5	
8.063	-9.2	H	3.0	34.9	1.0	43.1	-13.0	-30.1	
5.375	-13.6	V	3.0	35.5	1.0	48.1	-13.0	-35.1	
8.063	-10.6	V	3.0	34.9	1.0	44.5	-13.0	-31.5	

Rev. 03.03.14

UAT 16QAM EIRP POWER FOR LTE BAND 41 (5.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber Above 1GHz Substitution Measurement									
Project #:		14U17676							
Date:		06/23/14							
Test Engineer:		T Wang							
Configuration:		EUT only							
Mode:		LTE Band 41, 5MHz 16QAM							
Test Equipment:									
Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit			
3m Chamber F		3m Chamber F				Part 27			
Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2498.5MHz)									
4.997	-14.2	H	3.0	35.6	1.0	.48.8	-13.0	-35.8	
7.496	-12.6	H	3.0	35.4	1.0	.47.0	-13.0	-34.0	
4.997	-13.2	V	3.0	35.6	1.0	.47.8	-13.0	-34.8	
7.496	-12.2	V	3.0	35.4	1.0	.46.7	-13.0	-33.7	
Mid Channel (2593MHz)									
5.186	-14.9	H	3.0	35.5	1.0	.49.4	-13.0	-36.4	
7.779	-11.8	H	3.0	35.2	1.0	.45.9	-13.0	-32.9	
5.186	-13.8	V	3.0	35.5	1.0	.48.3	-13.0	-35.3	
7.779	-11.8	V	3.0	35.2	1.0	.46.0	-13.0	-33.0	
High Channel (2687.5MHz)									
5.375	-14.9	H	3.0	35.5	1.0	.49.4	-13.0	-36.4	
8.063	-10.1	H	3.0	34.9	1.0	.44.0	-13.0	-31.0	
5.375	-14.5	V	3.0	35.5	1.0	.49.0	-13.0	-36.0	
8.063	-11.6	V	3.0	34.9	1.0	.45.5	-13.0	-32.5	

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UAT QPSK EIRP POWER FOR LTE BAND 41 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 6/23/2014
Test Engineer: T Wang
Configuration: EUT Only
Mode: LTE Band 41, 10MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2501MHz)									
5.002	-12.4	H	3.0	35.6	1.0	-47.0	-13.0	-34.0	
7.503	-11.3	H	3.0	35.4	1.0	-45.7	-13.0	-32.7	
5.002	-12.7	V	3.0	35.6	1.0	-47.3	-13.0	-34.3	
7.503	-11.8	V	3.0	35.4	1.0	-46.3	-13.0	-33.3	
Mid Channel (2593MHz)									
5.186	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7.779	-10.9	H	3.0	35.2	1.0	-45.0	-13.0	-32.0	
5.186	-13.5	V	3.0	35.5	1.0	-48.0	-13.0	-35.0	
7.779	-11.1	V	3.0	35.2	1.0	-45.3	-13.0	-32.3	
High Channel (2685MHz)									
5.370	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
8.055	-10.4	H	3.0	34.9	1.0	-44.3	-13.0	-31.3	
5.370	-13.6	V	3.0	35.5	1.0	-48.1	-13.0	-35.1	
8.055	-10.6	V	3.0	34.9	1.0	-44.5	-13.0	-31.5	

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UAT 16QAM EIRP POWER FOR LTE BAND 41 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 6/23/2014
Test Engineer: T Wang
Configuration: EUT Only
Mode: LTE Band 41, 10MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2501MHz)									
5.002	-13.5	H	3.0	35.6	1.0	.48.1	-13.0	-35.1	
7.503	-12.3	H	3.0	35.4	1.0	.46.7	-13.0	-33.7	
5.002	-13.8	V	3.0	35.6	1.0	.48.4	-13.0	-35.4	
7.503	-12.7	V	3.0	35.4	1.0	.47.2	-13.0	-34.2	
Mid Channel (2593MHz)									
5.186	-15.0	H	3.0	35.5	1.0	.49.5	-13.0	-36.5	
7.779	-11.9	H	3.0	35.2	1.0	.46.0	-13.0	-33.0	
5.186	-14.5	V	3.0	35.5	1.0	.49.0	-13.0	-36.0	
7.779	-12.2	V	3.0	35.2	1.0	.46.4	-13.0	-33.4	
High Channel (2685MHz)									
5.370	-14.7	H	3.0	35.5	1.0	.49.2	-13.0	-36.2	
8.055	-11.5	H	3.0	34.9	1.0	.45.4	-13.0	-32.4	
5.370	-14.6	V	3.0	35.5	1.0	.49.1	-13.0	-36.1	
8.055	-10.7	V	3.0	34.9	1.0	.44.6	-13.0	-31.6	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 41 (15.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: T Wang
Configuration: EUT only
Mode: LTE Band 41, 15MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2503.5MHz)									
5.007	-13.4	H	3.0	35.6	1.0	48.0	-13.0	-35.0	
7.511	-11.5	H	3.0	35.4	1.0	45.9	-13.0	-32.9	
5.007	-12.7	V	3.0	35.6	1.0	47.3	-13.0	-34.3	
7.511	-11.8	V	3.0	35.4	1.0	46.2	-13.0	-33.2	
Mid Channel (2593MHz)									
5.186	-13.9	H	3.0	35.5	1.0	48.4	-13.0	-35.4	
7.779	-10.3	H	3.0	35.2	1.0	44.4	-13.0	-31.4	
5.186	-12.9	V	3.0	35.5	1.0	47.4	-13.0	-34.4	
7.779	-11.1	V	3.0	35.2	1.0	45.3	-13.0	-32.3	
High Channel (2682.5MHz)									
5.365	-14.1	H	3.0	35.5	1.0	48.6	-13.0	-35.6	
8.048	-10.6	H	3.0	34.9	1.0	44.5	-13.0	-31.5	
5.365	-14.0	V	3.0	35.5	1.0	48.5	-13.0	-35.5	
8.048	-10.5	V	3.0	34.9	1.0	44.5	-13.0	-31.5	

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UAT 16QAM EIRP POWER FOR LTE BAND 41 (15.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: T Wang
Configuration: EUT only
Mode: LTE Band 41, 15MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2503.5MHz)									
5.007	-14.3	H	3.0	35.6	1.0	.48.9	-13.0	-35.9	
7.511	-12.5	H	3.0	35.4	1.0	.46.9	-13.0	-33.9	
5.007	-13.7	V	3.0	35.6	1.0	.48.3	-13.0	-35.3	
7.511	-12.8	V	3.0	35.4	1.0	.47.2	-13.0	-34.2	
Mid Channel (2593MHz)									
5.186	-14.9	H	3.0	35.5	1.0	.49.4	-13.0	-36.4	
7.779	-11.3	H	3.0	35.2	1.0	.45.4	-13.0	-32.4	
5.186	-13.6	V	3.0	35.5	1.0	.48.1	-13.0	-35.1	
7.779	-12.3	V	3.0	35.2	1.0	.46.5	-13.0	-33.5	
High Channel (2682.5MHz)									
5.365	-15.1	H	3.0	35.5	1.0	.49.6	-13.0	-36.6	
8.048	-11.6	H	3.0	34.9	1.0	.45.5	-13.0	-32.5	
5.365	-14.9	V	3.0	35.5	1.0	.49.4	-13.0	-36.4	
8.048	-11.5	V	3.0	34.9	1.0	.45.5	-13.0	-32.5	

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UAT QPSK EIRP POWER FOR LTE BAND 41 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: T Wang
Configuration: EUT only
Mode: LTE Band 41, 20MHz QPSK

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2506MHz)									
5.012	-13.1	H	3.0	35.6	1.0	47.7	-13.0	-34.7	
7.518	-11.7	H	3.0	35.4	1.0	46.2	-13.0	-33.2	
5.012	-12.8	V	3.0	35.6	1.0	47.4	-13.0	-34.4	
7.518	-11.5	V	3.0	35.4	1.0	45.9	-13.0	-32.9	
Mid Channel (2593MHz)									
5.186	-13.4	H	3.0	35.5	1.0	47.9	-13.0	-34.9	
7.779	-10.5	H	3.0	35.2	1.0	44.6	-13.0	-31.6	
5.186	-13.4	V	3.0	35.5	1.0	47.9	-13.0	-34.9	
7.779	-11.0	V	3.0	35.2	1.0	45.2	-13.0	-32.2	
High Channel (2680MHz)									
5.360	-13.7	H	3.0	35.5	1.0	48.2	-13.0	-35.2	
8.040	-10.2	H	3.0	34.9	1.0	44.1	-13.0	-31.1	
5.360	-14.0	V	3.0	35.5	1.0	48.5	-13.0	-35.5	
8.040	-10.4	V	3.0	34.9	1.0	44.4	-13.0	-31.4	

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UAT 16QAM EIRP POWER FOR LTE BAND 41 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Project #: 14U17676
Date: 06/23/14
Test Engineer: T Wang
Configuration: EUT only
Mode: LTE Band 41, 20MHz 16QAM

Test Equipment:
Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber	Pre-amplifier	Filter	Limit
3m Chamber F	3m Chamber F		Part 27

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (2506MHz)									
5.012	-14.1	H	3.0	35.6	1.0	.48.7	-13.0	-35.7	
7.518	-12.6	H	3.0	35.4	1.0	.47.1	-13.0	-34.1	
5.012	-13.7	V	3.0	35.6	1.0	.48.3	-13.0	-35.3	
7.518	-12.5	V	3.0	35.4	1.0	.46.9	-13.0	-33.9	
Mid Channel (2593MHz)									
5.186	-14.3	H	3.0	35.5	1.0	.48.8	-13.0	-35.8	
7.779	-11.4	H	3.0	35.2	1.0	.45.5	-13.0	-32.5	
5.186	-14.4	V	3.0	35.5	1.0	.48.9	-13.0	-35.9	
7.779	-12.0	V	3.0	35.2	1.0	.46.2	-13.0	-33.2	
High Channel (2680MHz)									
5.360	-14.7	H	3.0	35.5	1.0	.49.2	-13.0	-36.2	
8.040	-11.3	H	3.0	34.9	1.0	.45.2	-13.0	-32.2	
5.360	-14.9	V	3.0	35.5	1.0	.49.4	-13.0	-36.4	
8.040	-11.5	V	3.0	34.9	1.0	.45.5	-13.0	-32.5	

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