LTE B66 3MHz QPSK Low Channel RB1-0

LTE B66 3MHz 16QAM Low Channel RB1-0

LTE B66 3MHz QPSK Middle Channel RB1-0

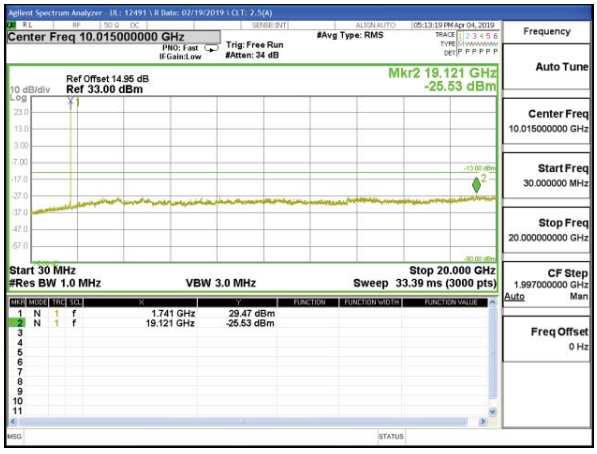
LTE B66 3MHz 16QAM Middle Channel RB1-0

LTE B66 3MHz QPSK High Channel RB1-0

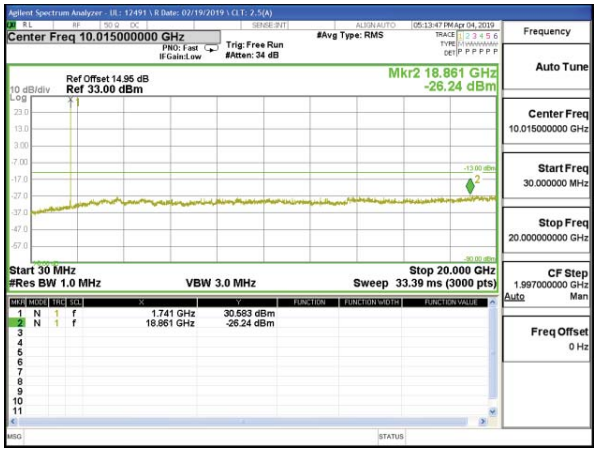
LTE B66 3MHz 16QAM High Channel RB1-0

LTE B66 5MHz QPSK Low Channel RB1-0

LTE B66 5MHz 16QAM Low Channel RB1-0



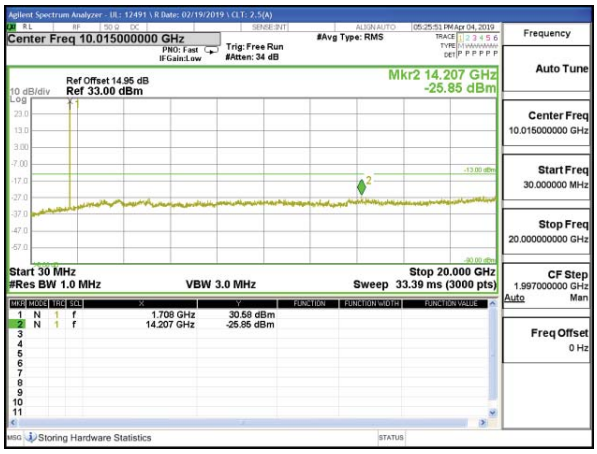
LTE B66 5MHz QPSK Middle Channel RB1-0



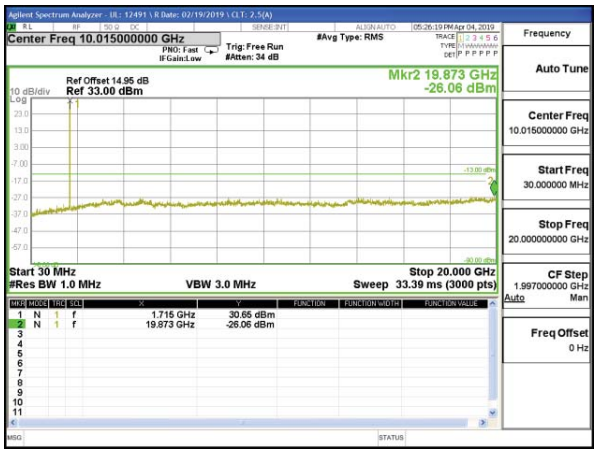
LTE B66 5MHz 16QAM Middle Channel RB1-0

LTE B66 5MHz QPSK High Channel RB1-0

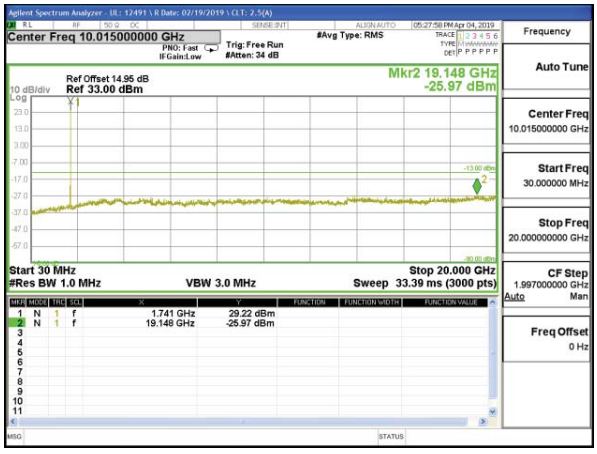
LTE B66 5MHz 16QAM High Channel RB1-0



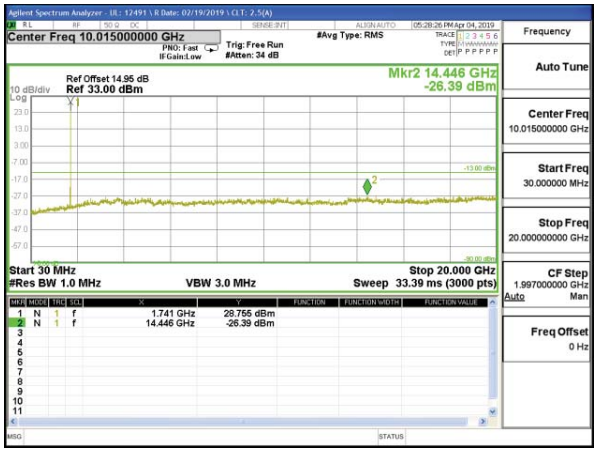
LTE B66 10MHz QPSK Low Channel RB1-0



LTE B66 10MHz 16QAM Low Channel RB1-0



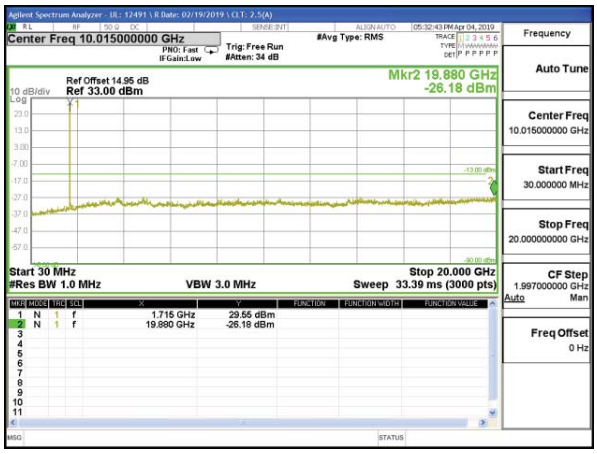
LTE B66 10MHz QPSK Middle Channel RB1-0



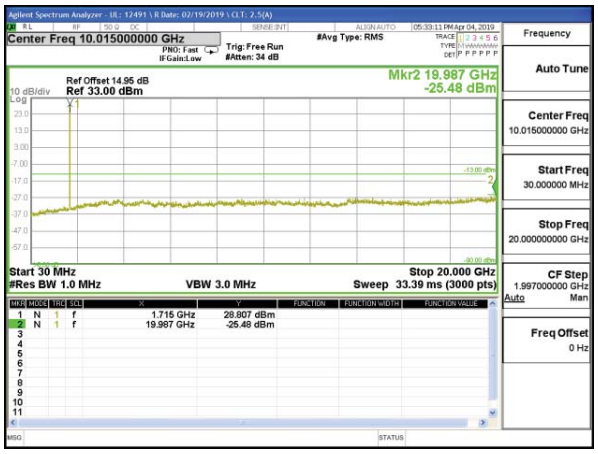
LTE B66 10MHz 16QAM Middle Channel RB1-0

LTE B66 10MHz QPSK High Channel RB1-0

LTE B66 10MHz 16QAM High Channel RB1-0

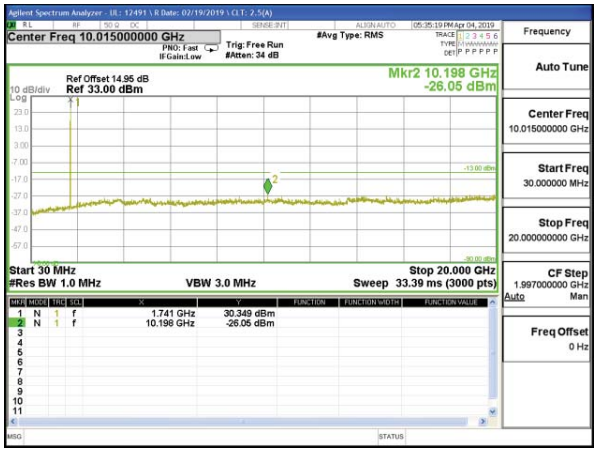


LTE B66 15MHz QPSK Low Channel RB1-0



LTE B66 15MHz 16QAM Low Channel RB1-0

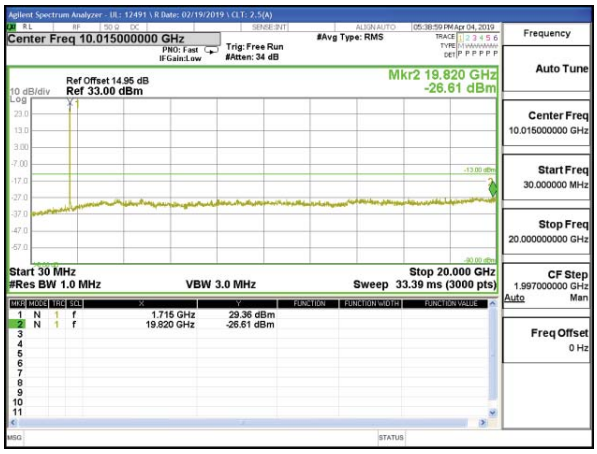
LTE B66 15MHz QPSK Middle Channel RB1-0



LTE B66 15MHz 16QAM Middle Channel RB1-0

LTE B66 15MHz QPSK High Channel RB1-0

LTE B66 15MHz 16QAM High Channel RB1-0



LTE B66 20MHz QPSK Low Channel RB1-0

LTE B66 20MHz 16QAM Low Channel RB1-0

LTE B66 20MHz QPSK Middle Channel RB1-0

LTE B66 20MHz 16QAM Middle Channel RB1-0

LTE B66 20MHz QPSK High Channel RB1-0

LTE B66 20MHz 16QAM High Channel RB1-0

8.4. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54, §90.213 and §90.539

LIMITS

FCC: §22.355, §90.213
The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations.

FCC: §90.539
(e) The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 ppm or better when AFC is locked to a base station, and 5 ppm or better when AFC is not locked.

FCC: §24.235 & §27.54
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. = −30°C to +50°C
- Voltage = (85% - 115%)

  Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.
  End Voltage, 3.2VDC.

Frequency Stability vs Temperature:
The EUT is place inside a temperature chamber. The temperature is set to 20ºC and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50ºC is reached.

Frequency Stability vs Voltage:
The peak frequency error is recorded (worst-case).

MODES TESTED

- LTE Band 2
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 48
- LTE Band 66

RESULTS

See the following pages.

8.4.1. LTE BAND 2

ID:	38602	Date:	3/29/19

QPSK, (20MHz BANDWIDTH)

Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		1851.0025	1908.9916		
Extreme (50C)		1851.0025	1908.9916	1.0	0.001
Extreme (40C)		1851.0025	1908.9916	1.1	0.001
Extreme (30C)		1851.0025	1908.9916	1.2	0.001
Extreme (10C)	Normal	1851.0025	1908.9916	1.1	0.001
Extreme (0C)		1851.0025	1908.9916	0.9	0.000
Extreme (-10C)		1851.0025	1908.9916	0.9	0.000
Extreme (-20C)		1851.0025	1908.9916	-0.7	0.000
Extreme (-30C)		1851.0025	1908.9916	0.8	0.000
20C	15%	1851.0025	1908.9916	4.1	0.002
	-15%	1851.0025	1908.9916	3.4	0.002
	End Point	1851.0025	1908.9916	4.6	0.002

8.4.2. LTE BAND 5

ID:	38806	Date:	3/29/19

QPSK, (10MHz BANDWIDTH)

Limit		824	849	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		824.4820	848.5374		
Extreme (50C)		824.4820	848.5374	1.1	0.001
Extreme (40C)		824.4820	848.5374	1.2	0.001
Extreme (30C)		824.4820	848.5374	1.3	0.002
Extreme (10C)	Normal	824.4820	848.5374	1.5	0.002
Extreme (0C)		824.4820	848.5374	1.7	0.002
Extreme (-10C)		824.4820	848.5374	2.0	0.002
Extreme (-20C)		824.4820	848.5374	1.9	0.002
Extreme (-30C)		824.4820	848.5374	2.0	0.002
20C	15%	824.4820	848.5374	4.8	0.006
	-15%	824.4820	848.5374	4.6	0.006
	End Point	824.4820	848.5374	5.8	0.007

8.4.3. LTE BAND 7

ID:	38602	Date:	4/1/19

QPSK, (20MHz BANDWIDTH)

Limit		2500	2570	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		2501.0148	2568.9915		
Extreme (50C)		2501.0148	2568.9915	2.2	0.001
Extreme (40C)		2501.0148	2568.9915	3.4	0.001
Extreme (30C)		2501.0148	2568.9915	3.2	0.001
Extreme (10C)	Normal	2501.0148	2568.9915	2.6	0.001
Extreme (0C)		2501.0148	2568.9915	2.9	0.001
Extreme (-10C)		2501.0148	2568.9915	3.0	0.001
Extreme (-20C)		2501.0148	2568.9915	3.3	0.001
Extreme (-30C)		2501.0148	2568.9915	3.1	0.001
20C	15%	2501.0148	2568.9915	2.4	0.001
	-15%	2501.0148	2568.9915	2.1	0.001
	End Point	2501.0148	2568.9915	1.9	0.001

8.4.4. LTE BAND 12

ID:	38602	Date:	4/1/19

QPSK, (10MHz BANDWIDTH)

Limit		699	716	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		699.4173	715.5166		
Extreme (50C)		699.4173	715.5166	1.2	0.002
Extreme (40C)		699.4173	715.5166	1.3	0.002
Extreme (30C)		699.4173	715.5166	1.3	0.002
Extreme (10C)	Normal	699.4173	715.5166	1.5	0.002
Extreme (0C)		699.4173	715.5166	1.2	0.002
Extreme (-10C)		699.4173	715.5166	1.4	0.002
Extreme (-20C)		699.4173	715.5166	1.3	0.002
Extreme (-30C)		699.4173	715.5166	1.7	0.002
20C	15%	699.4173	715.5166	4.6	0.006
	-15%	699.4173	715.5166	3.9	0.005
	End Point	699.4173	715.5166	4.5	0.006

8.4.5. LTE BAND 13

ID:	38602	Date:	4/1/19

QPSK, (10MHz BANDWIDTH)

Limit		777	787	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	777.2063	786.8172		
Extreme (50C)		777.2063	786.8172	1.2	0.002
Extreme (40C)		777.2063	786.8172	1.1	0.001
Extreme (30C)		777.2063	786.8172	0.9	0.001
Extreme (10C)		777.2063	786.8172	1.1	0.001
Extreme (0C)		777.2063	786.8172	1.0	0.001
Extreme (-10C)		777.2063	786.8172	0.8	0.001
Extreme (-20C)		777.2063	786.8172	1.1	0.001
Extreme (-30C)		777.2063	786.8172	1.3	0.002
20C	15%	777.2063	786.8172	4.4	0.006
	-15%	777.2063	786.8172	4.1	0.005
	End Point	777.2063	786.8172	4.9	0.006

8.4.6. LTE BAND 17

ID:	30606	Date:	4/1/19

QPSK, (10MHz BANDWIDTH)

Limit		704	716	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	704.4119	715.5903		
Extreme (50C)		704.4119	715.5903	1.4	0.002
Extreme (40C)		704.4119	715.5903	1.5	0.002
Extreme (30C)		704.4119	715.5903	1.2	0.002
Extreme (10C)		704.4119	715.5903	1.5	0.002
Extreme (0C)		704.4119	715.5903	1.3	0.002
Extreme (-10C)		704.4119	715.5903	1.4	0.002
Extreme (-20C)		704.4119	715.5903	1.6	0.002
Extreme (-30C)		704.4119	715.5903	1.5	0.002
20C	15%	704.4119	715.5903	4.7	0.007
	-15%	704.4119	715.5903	4.3	0.006
	End Point	704.4119	715.5903	4.9	0.007

8.4.7. LTE BAND 25

ID:	30606	Date:	4/1/19

QPSK, (20MHz BANDWIDTH)

Limit		1850	1915	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		1851.0109	1913.9872		
Extreme (50C)		1851.0109	1913.9872	1.2	0.001
Extreme (40C)		1851.0109	1913.9872	1.0	0.001
Extreme (30C)		1851.0109	1913.9872	-1.2	-0.001
Extreme (10C)	Normal	1851.0109	1913.9872	-0.7	0.000
Extreme (0C)		1851.0109	1913.9872	-1.3	-0.001
Extreme (-10C)		1851.0109	1913.9872	-0.7	0.000
Extreme (-20C)		1851.0109	1913.9872	-1.0	-0.001
Extreme (-30C)		1851.0109	1913.9872	-0.6	0.000
20C	15%	1851.0109	1913.9872	3.9	0.002
	-15%	1851.0109	1913.9872	3.9	0.002
	End Point	1851.0109	1913.9872	4.5	0.002

8.4.8. LTE BAND 26 (PART 90S)

ID:	30606	Date:	4/1/19

QPSK, (10MHz BANDWIDTH)

Limit		814	824	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		814.2039	823.8218		
Extreme (50C)		814.2039	823.8218	1.2	0.001
Extreme (40C)		814.2039	823.8218	1.0	0.001
Extreme (30C)		814.2039	823.8218	1.1	0.001
Extreme (10C)	Normal	814.2039	823.8218	1.2	0.001
Extreme (0C)		814.2039	823.8218	1.0	0.001
Extreme (-10C)		814.2039	823.8218	1.1	0.001
Extreme (-20C)		814.2039	823.8218	0.9	0.001
Extreme (-30C)		814.2039	823.8218	1.4	0.002
20C	15%	814.2039	823.8218	4.6	0.006
	-15%	814.2039	823.8218	4.3	0.005
	End Point	814.2039	823.8218	4.6	0.006

8.4.9. LTE BAND 30

ID:	38602	Date:	4/2/19

QPSK, (10MHz BANDWIDTH)

Limit		2305	2315	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		2305.4850	2314.4973		
Extreme (50C)		2305.4850	2314.4973	1.9	0.001
Extreme (40C)		2305.4850	2314.4973	2.1	0.001
Extreme (30C)		2305.4850	2314.4973	1.5	0.001
Extreme (10C)	Normal	2305.4850	2314.4973	1.6	0.001
Extreme (0C)		2305.4850	2314.4973	1.7	0.001
Extreme (-10C)		2305.4850	2314.4973	2.1	0.001
Extreme (-20C)		2305.4850	2314.4973	2.2	0.001
Extreme (-30C)		2305.4850	2314.4973	1.8	0.001
20C	15%	2305.4850	2314.4973	4.2	0.002
	-15%	2305.4850	2314.4973	4.3	0.002
	End Point	2305.4850	2314.4973	4.4	0.002

8.4.10. LTE BAND 41

ID:	38602	Date:	4/2/19

QPSK, (20MHz BANDWIDTH)

Limit		2496	2690	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		2496.9323	2689.1225		
Extreme (50C)		2496.9323	2689.1225	2.2	0.001
Extreme (40C)		2496.9323	2689.1225	2.4	0.001
Extreme (30C)		2496.9323	2689.1225	2.9	0.001
Extreme (10C)	Normal	2496.9323	2689.1225	3.3	0.001
Extreme (0C)		2496.9323	2689.1225	2.9	0.001
Extreme (-10C)		2496.9323	2689.1225	3.4	0.001
Extreme (-20C)		2496.9323	2689.1225	3.7	0.001
Extreme (-30C)		2496.9323	2689.1225	3.4	0.001
20C	15%	2496.9323	2689.1225	6.0	0.002
	-15%	2496.9323	2689.1225	5.0	0.002
	End Point	2496.9323	2689.1225	4.7	0.002

8.4.11. LTE BAND 48

ID:	30606	Date:	5/24/19

QPSK, (20MHz BANDWIDTH)

Limit		3550	3700	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		3550.6883	3699.2207		
Extreme (50C)		3550.6883	3699.2207	6.3	0.002
Extreme (40C)		3550.6883	3699.2207	11.8	0.003
Extreme (30C)		3550.6883	3699.2207	-7.3	-0.002
Extreme (10C)	Normal	3550.6883	3699.2207	8.7	0.002
Extreme (0C)		3550.6883	3699.2207	8.3	0.002
Extreme (-10C)		3550.6883	3699.2207	-13.6	-0.004
Extreme (-20C)		3550.6883	3699.2207	-16.4	-0.005
Extreme (-30C)		3550.6883	3699.2207	-6.6	-0.002
20C	15%	3550.6883	3699.2207	-11.2	-0.003
	-15%	3550.6883	3699.2207	10.2	0.003
	End Point	3550.6883	3699.2207	-13.2	-0.004

8.4.12. LTE BAND 66

ID:	38602	Date:	4/2/19

QPSK, (20MHz BANDWIDTH)

Limit		1710	1780	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		1711.0019	1779.0219		
Extreme (50C)		1711.0019	1779.0219	1.5	0.001
Extreme (40C)		1711.0019	1779.0219	1.7	0.001
Extreme (30C)		1711.0019	1779.0219	1.5	0.001
Extreme (10C)	Normal	1711.0019	1779.0219	1.1	0.001
Extreme (0C)		1711.0019	1779.0219	1.3	0.001
Extreme (-10C)		1711.0019	1779.0219	1.5	0.001
Extreme (-20C)		1711.0019	1779.0219	1.5	0.001
Extreme (-30C)		1711.0019	1779.0219	1.1	0.001
20C	15%	1711.0019	1779.0219	3.2	0.002
	-15%	1711.0019	1779.0219	4.2	0.002
	End Point	1711.0019	1779.0219	4.4	0.003

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

MODES TESTED

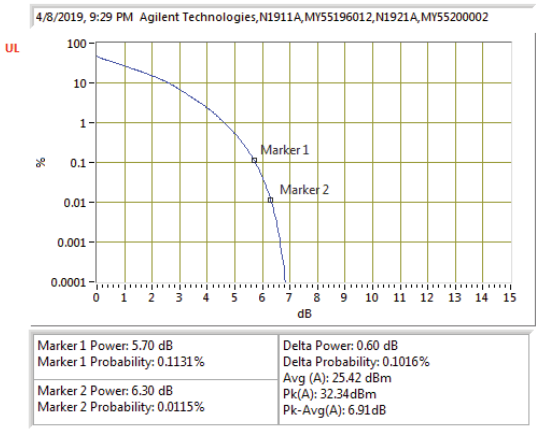
- LTE Band 2
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 48
- LTE Band 66

RESULT

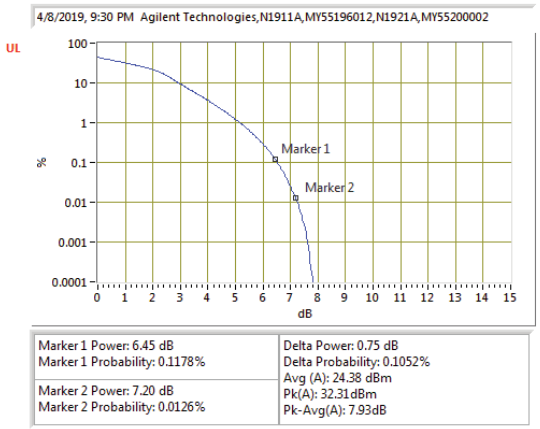
Antenna 1 was used to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

ID:	10646	Date:	4/8/19

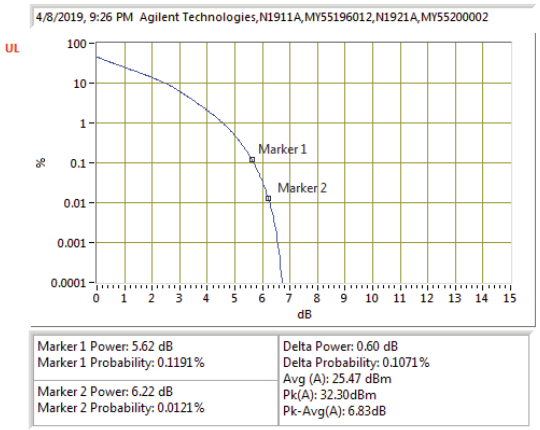
8.5.1. LTE BAND 2



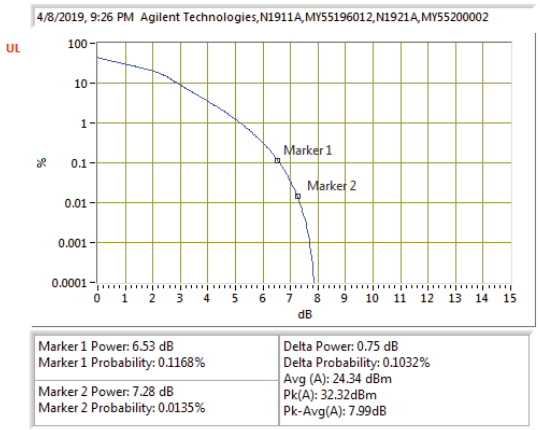
LTE B2 1.4MHz QPSK Middle Channel ID:10646



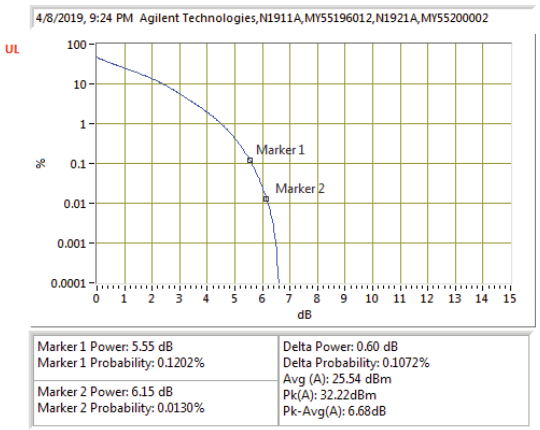
LTE B2 1.4MHz 16QAM Middle Channel ID:10646



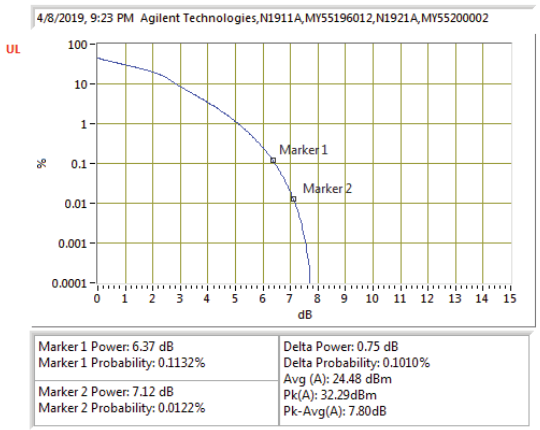
LTE B2 3MHz QPSK Middle Channel ID:10646



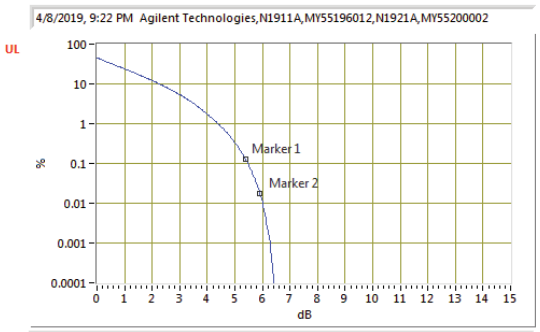
LTE B2 3MHz 16QAM Middle Channel ID:10646



LTE B2 5MHz QPSK Middle Channel ID:10646

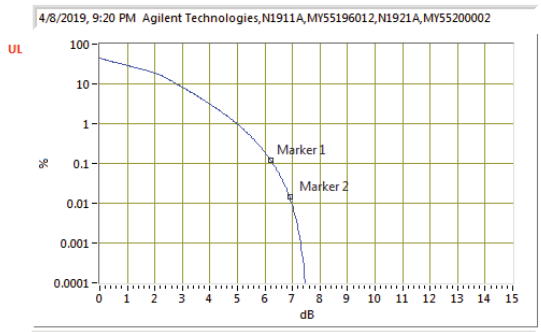


LTE B2 5MHz 16QAM Middle Channel ID:10646



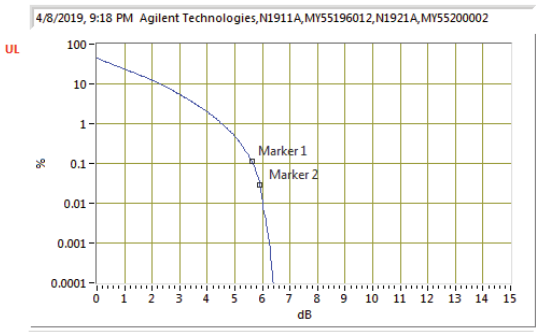
Marker 1 Power: 5.40 dB Marker 1 Probability: 0.1244%	Delta Power: 0.53 dB Delta Probability: 0.1077%
Marker 2 Power: 5.92 dB Marker 2 Probability: 0.0167%	Avg (A): 25.72 dBm Pk(A): 32.21dBm Pk-Avg(A): 6.49dB

LTE B2 10MHz QPSK Middle Channel ID:10646



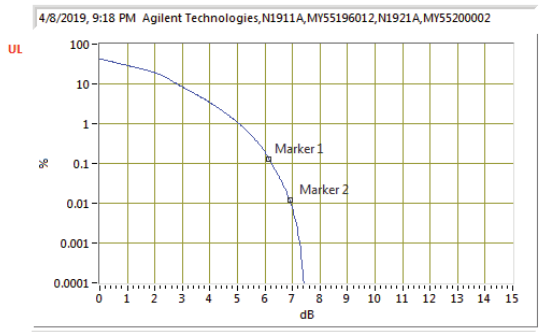
Marker 1 Power: 6.22 dB Marker 1 Probability: 0.1154%	Delta Power: 0.67 dB Delta Probability: 0.1012%
Marker 2 Power: 6.90 dB Marker 2 Probability: 0.0142%	Avg (A): 24.64 dBm Pk(A): 32.21dBm Pk-Avg(A): 7.56dB

LTE B2 10MHz 16QAM Middle Channel ID:10646



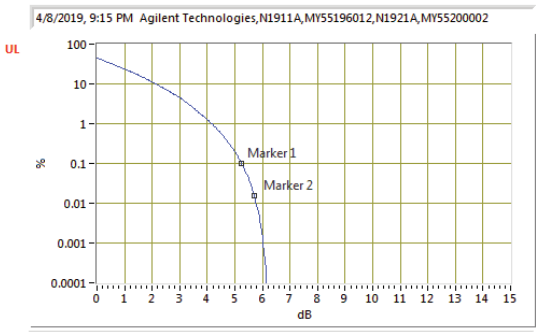
Marker 1 Power: 5.62 dB Marker 1 Probability: 0.1099%	Delta Power: 0.30 dB Delta Probability: 0.0843%
Marker 2 Power: 5.92 dB Marker 2 Probability: 0.0256%	Avg (A): 25.58 dBm Pk(A): 32.11dBm Pk-Avg(A): 6.52dB

LTE B2 15MHz QPSK Middle Channel ID:10646



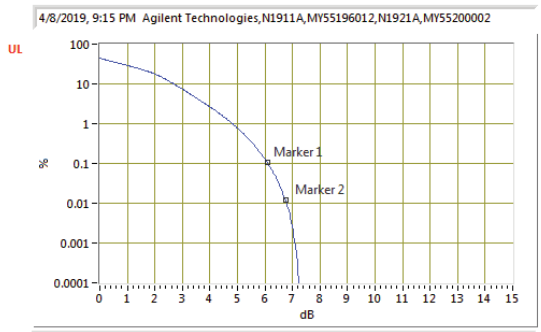
Marker 1 Power: 6.15 dB Marker 1 Probability: 0.1305%	Delta Power: 0.75 dB Delta Probability: 0.1182%
Marker 2 Power: 6.90 dB Marker 2 Probability: 0.0123%	Avg (A): 24.61 dBm Pk(A): 32.13dBm Pk-Avg(A): 7.52dB

LTE B2 15MHz 16QAM Middle Channel ID:10646



Marker 1 Power: 5.25 dB Marker 1 Probability: 0.0990%	Delta Power: 0.45 dB Delta Probability: 0.0832%
Marker 2 Power: 5.70 dB Marker 2 Probability: 0.0158%	Avg (A): 25.60 dBm Pk(A): 31.93dBm Pk-Avg(A): 6.33dB

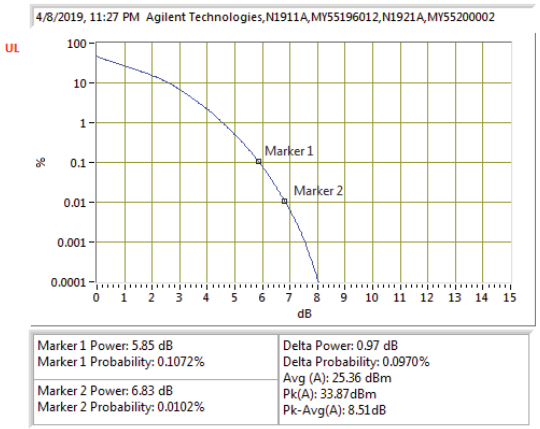
LTE B2 20MHz QPSK Middle Channel ID:10646



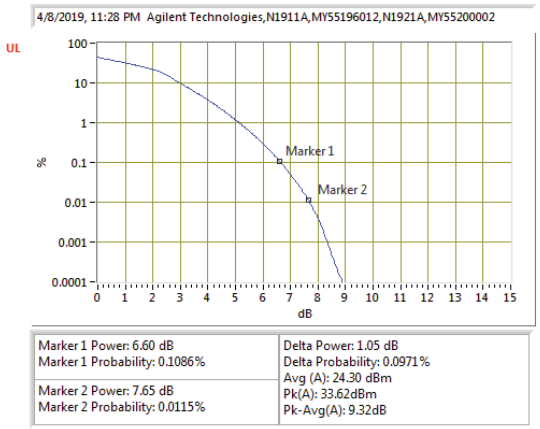
Marker 1 Power: 6.08 dB Marker 1 Probability: 0.1083%	Delta Power: 0.68 dB Delta Probability: 0.0964%
Marker 2 Power: 6.75 dB Marker 2 Probability: 0.0119%	Avg (A): 24.59 dBm Pk(A): 32.01dBm Pk-Avg(A): 7.42dB

LTE B2 20MHz 16QAM Middle Channel ID:10646

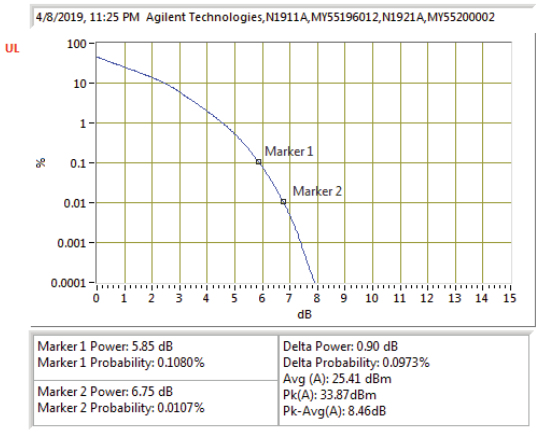
8.5.2. LTE BAND 5



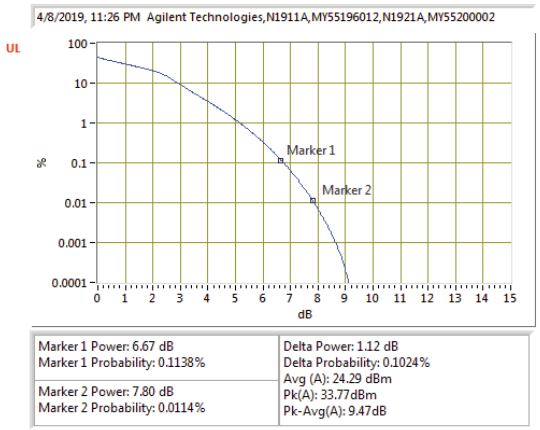
LTE B5 1.4MHz QPSK Middle Channel ID:10646



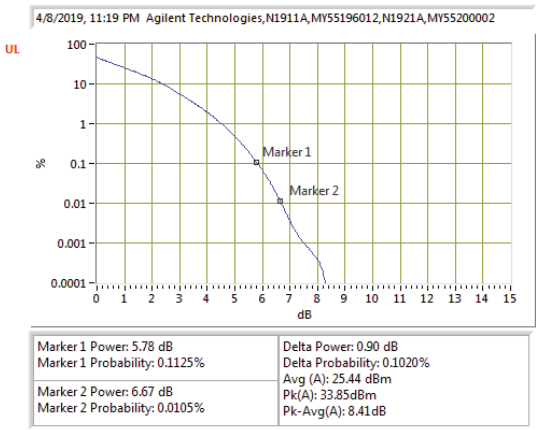
LTE B5 1.4MHz 16QAM Middle Channel ID:10646



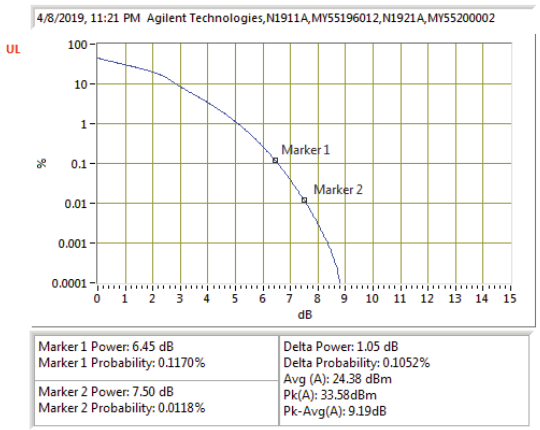
LTE B5 3MHz QPSK Middle Channel ID:10646



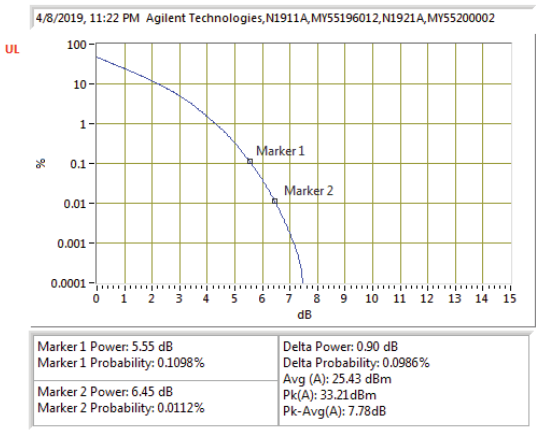
LTE B5 3MHz 16QAM Middle Channel ID:10646



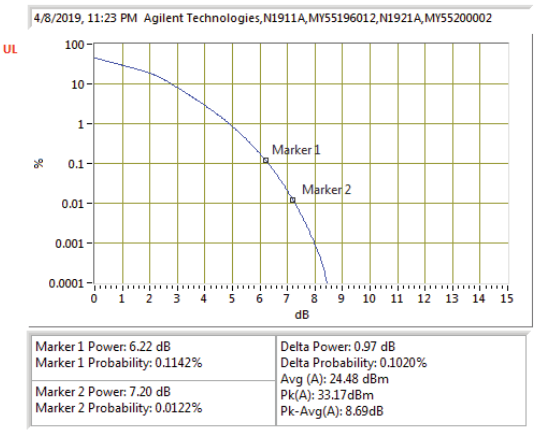
LTE B5 5MHz QPSK Middle Channel ID:10646



LTE B5 5MHz 16QAM Middle Channel ID:10646

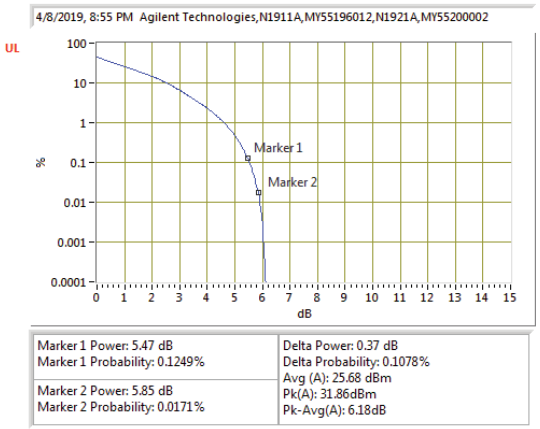


LTE B5 10MHz QPSK Middle Channel ID:10646

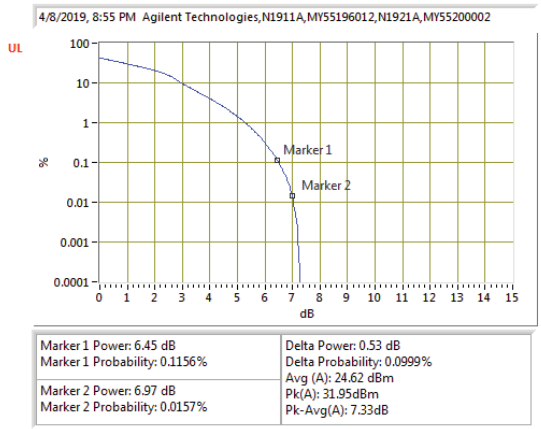


LTE B5 10MHz 16QAM Middle Channel ID:10646

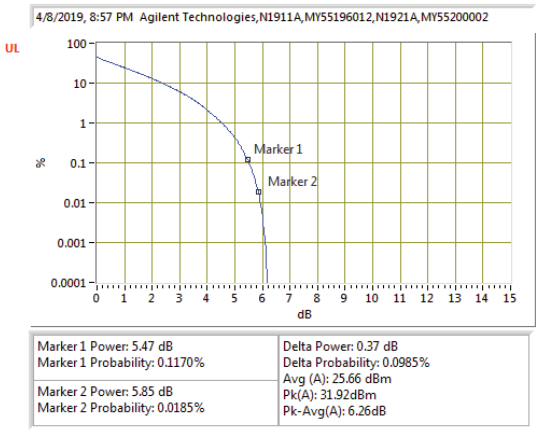
8.5.3. LTE BAND 7



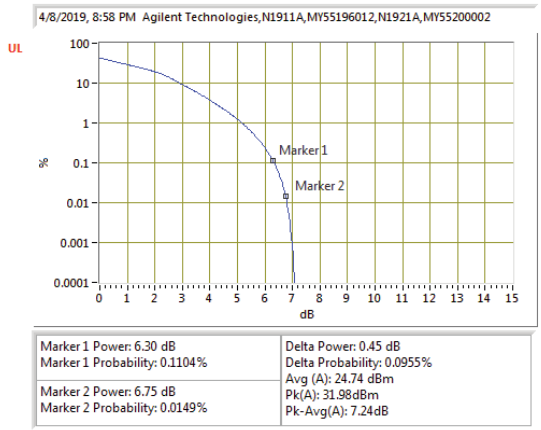
LTE B7 5MHz QPSK Middle Channel ID:10646



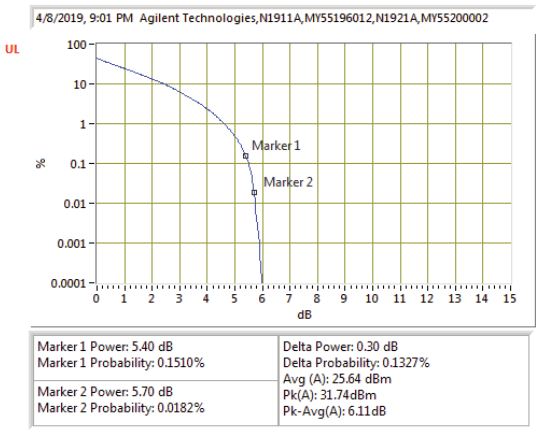
LTE B7 5MHz 16QAM Middle Channel ID:10646



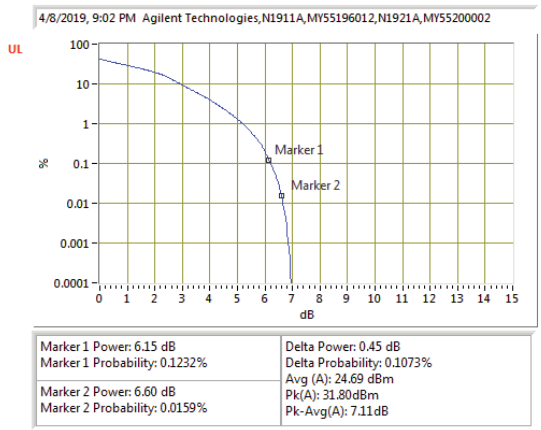
LTE B7 10MHz QPSK Middle Channel ID:10646



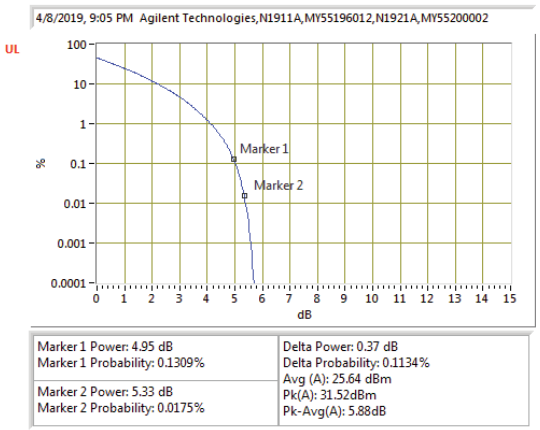
LTE B7 10MHz 16QAM Middle Channel ID:10646



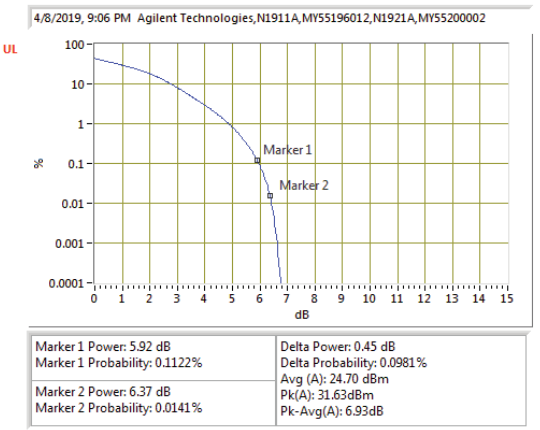
LTE B7 15MHz QPSK Middle Channel ID:10646



LTE B7 15MHz 16QAM Middle Channel ID:10646

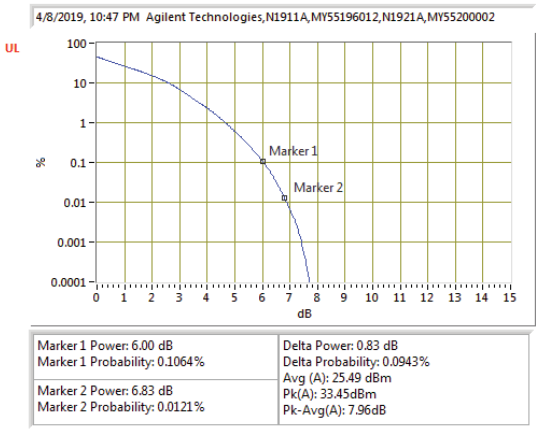


LTE B7 20MHz QPSK Middle Channel ID:10646

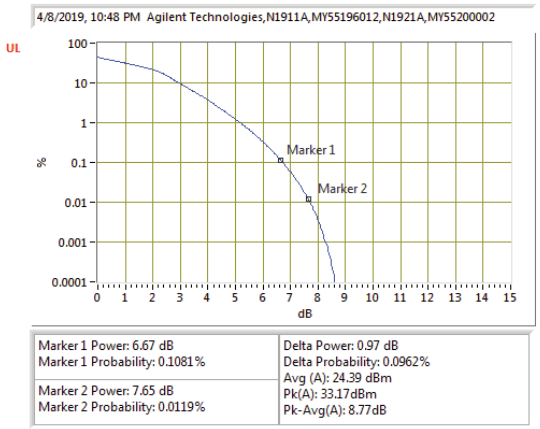


LTE B7 20MHz 16QAM Middle Channel ID:10646

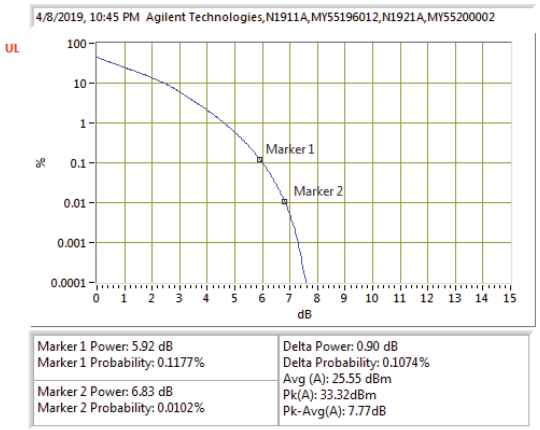
8.5.4. LTE BAND 12



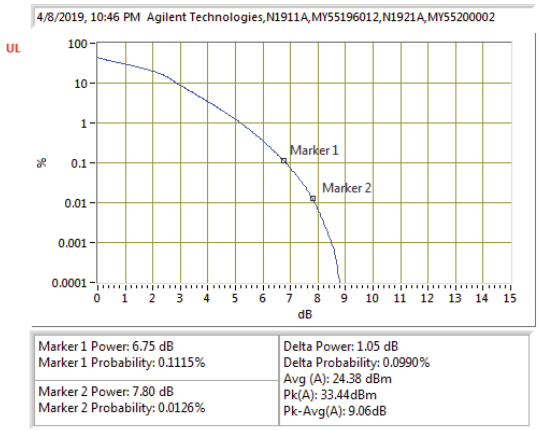
LTE B12 1.4MHz QPSK Middle Channel ID:10646



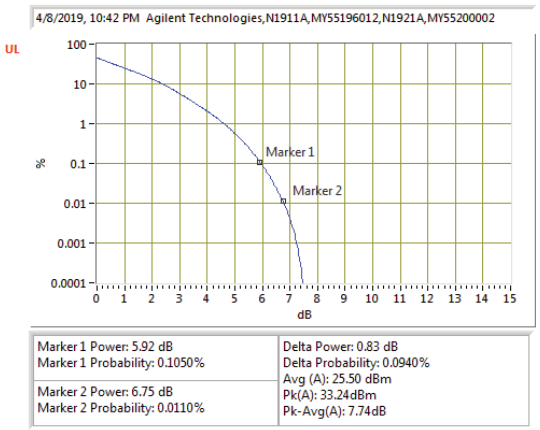
LTE B12 1.4MHz 16QAM Middle Channel ID:10646



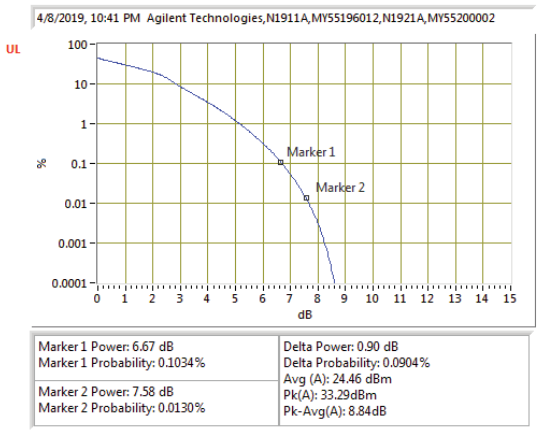
LTE B12 3MHz QPSK Middle Channel ID:10646



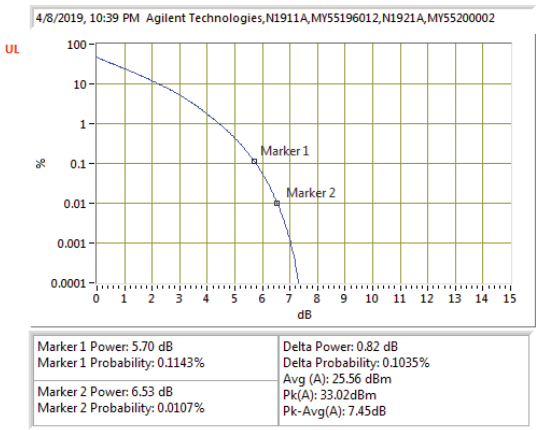
LTE B12 3MHz 16QAM Middle Channel ID:10646



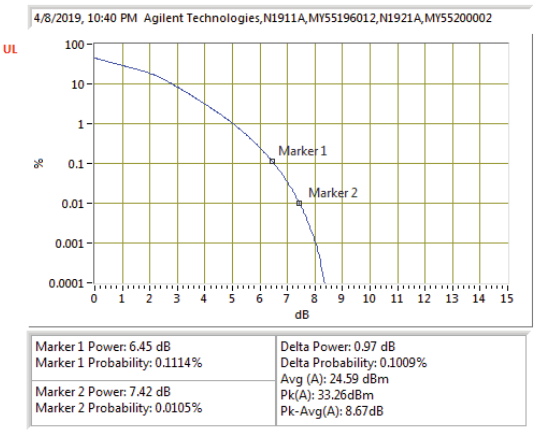
LTE B12 5MHz QPSK Middle Channel ID:10646



LTE B12 5MHz 16QAM Middle Channel ID:10646

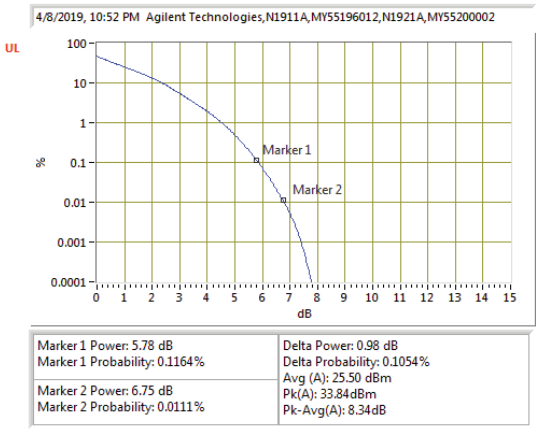


LTE B12 10MHz QPSK Middle Channel ID:10646

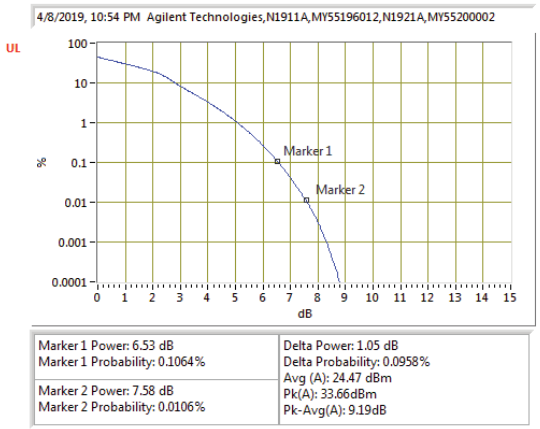


LTE B12 10MHz 16QAM Middle Channel ID:10646

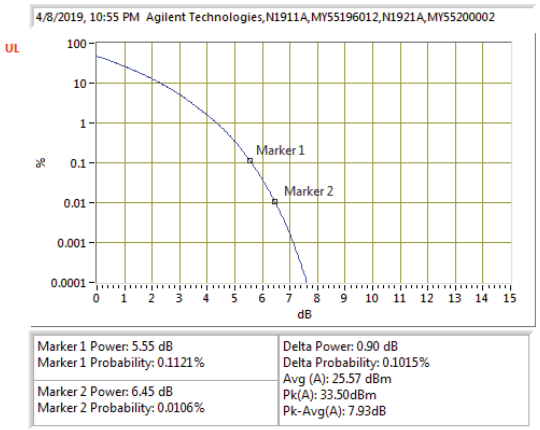
8.5.5. LTE BAND 13



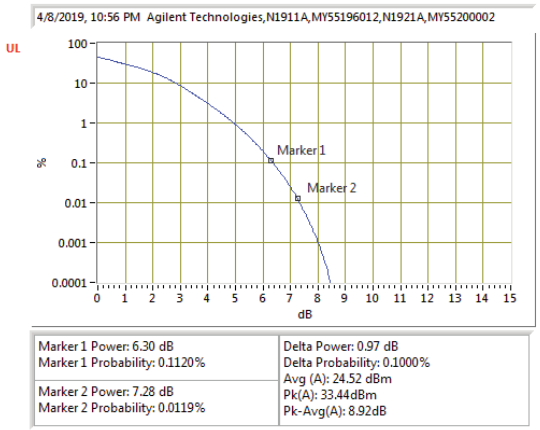
LTE B13 5MHz QPSK Middle Channel ID:10646



LTE B13 5MHz 16QAM Middle Channel ID:10646

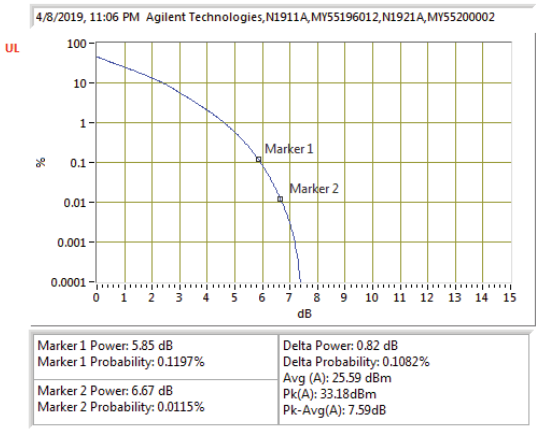


LTE B13 10MHz QPSK Middle Channel ID:10646

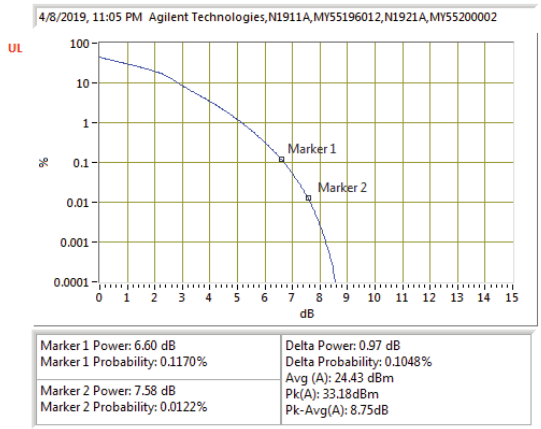


LTE B13 10MHz 16QAM Middle Channel ID:10646

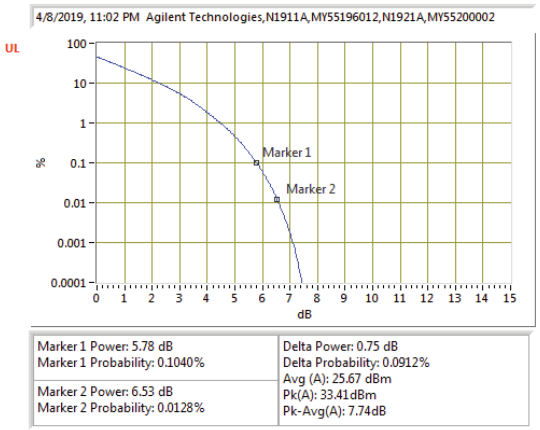
8.5.6. LTE BAND 17



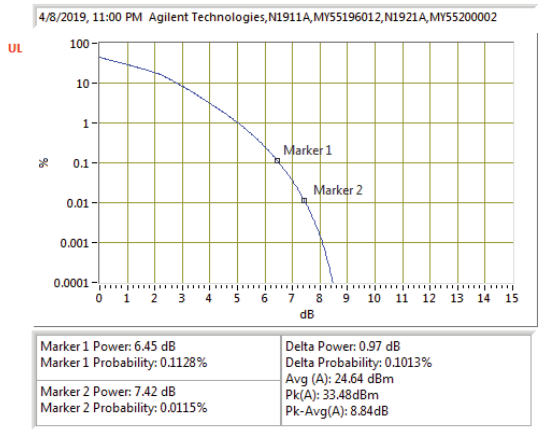
LTE B17 5MHz QPSK Middle Channel ID:10646



LTE B17 5MHz 16QAM Middle Channel ID:10646

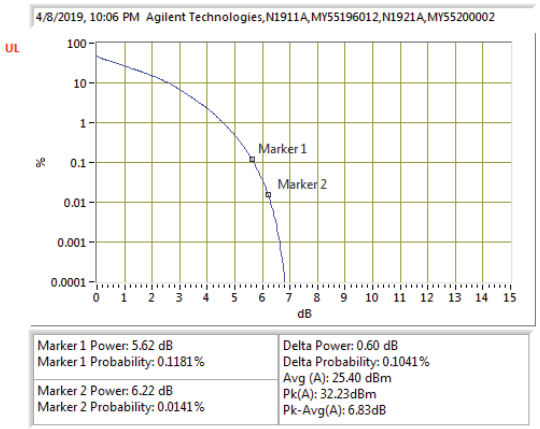


LTE B17 10MHz QPSK Middle Channel ID:10646

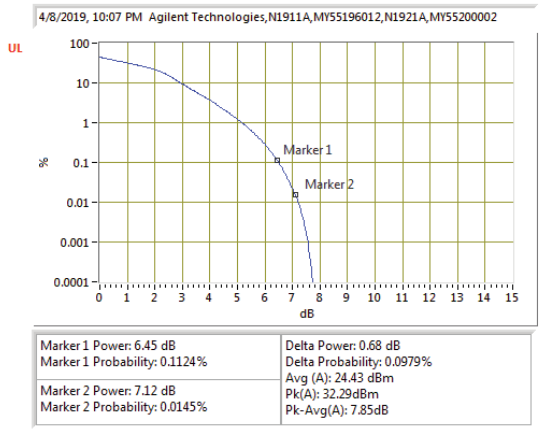


LTE B17 10MHz 16QAM Middle Channel ID:10646

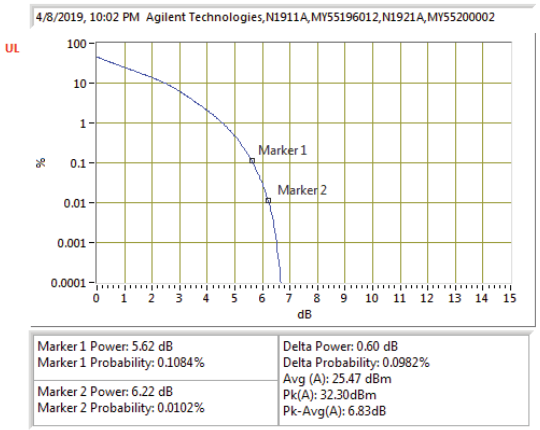
8.5.7. LTE BAND 25



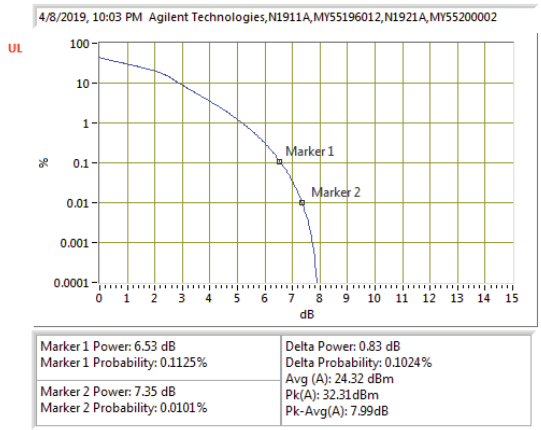
LTE B25 1.4MHz QPSK Middle Channel ID:10646



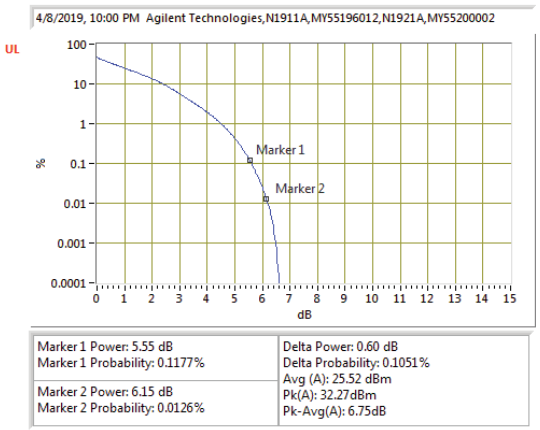
LTE B25 1.4MHz 16QAM Middle Channel ID:10646



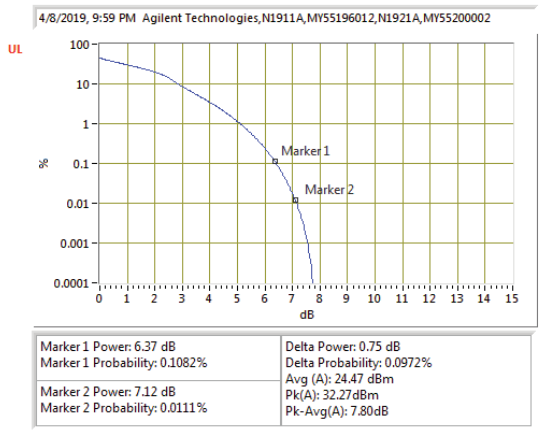
LTE B25 3MHz QPSK Middle Channel ID:10646



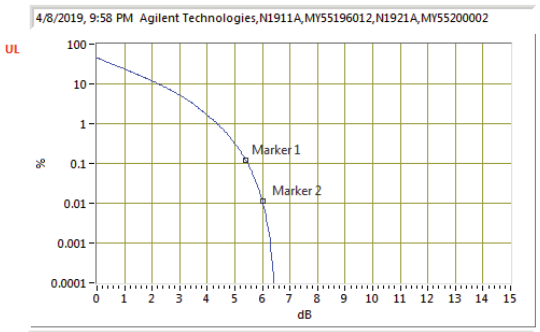
LTE B25 3MHz 16QAM Middle Channel ID:10646



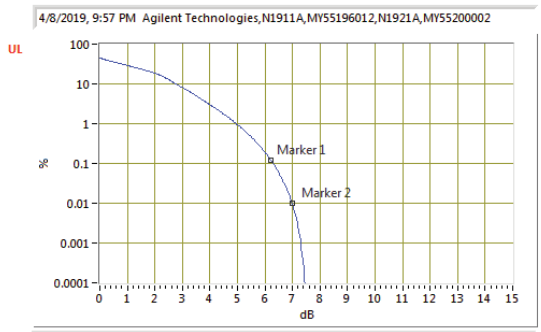
LTE B25 5MHz QPSK Middle Channel ID:10646



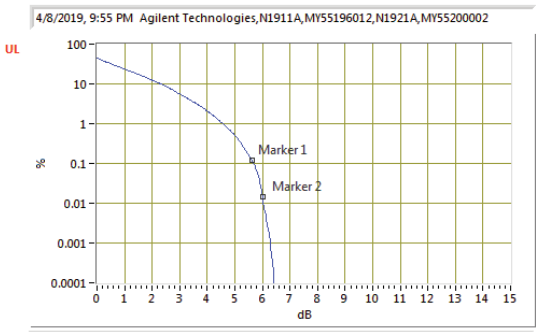
LTE B25 5MHz 16QAM Middle Channel ID:10646



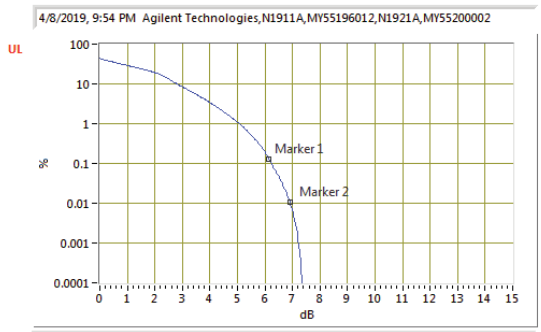
LTE B25 10MHz QPSK Middle Channel ID:10646



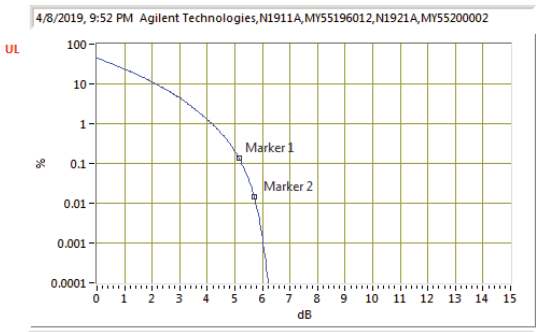
LTE B25 10MHz 16QAM Middle Channel ID:10646



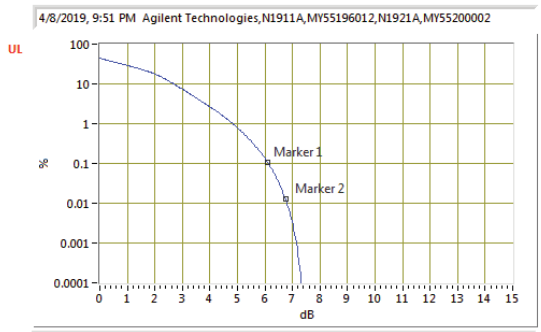
LTE B25 15MHz QPSK Middle Channel ID:10646



LTE B25 15MHz 16QAM Middle Channel ID:10646

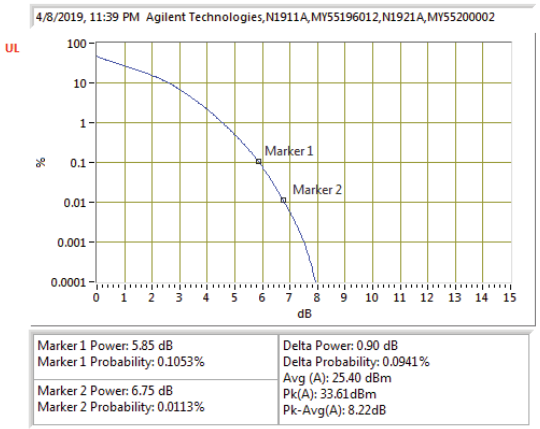


LTE B25 20MHz QPSK Middle Channel ID:10646

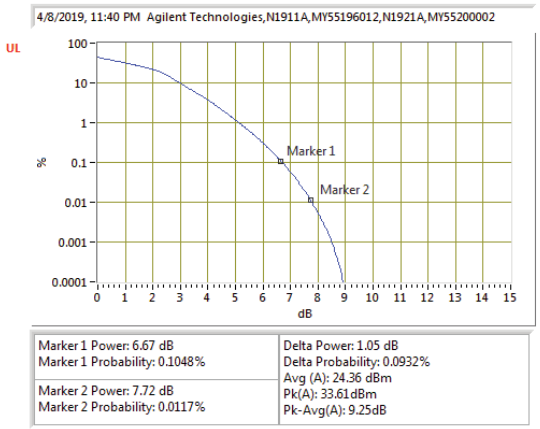


LTE B25 20MHz 16QAM Middle Channel ID:10646

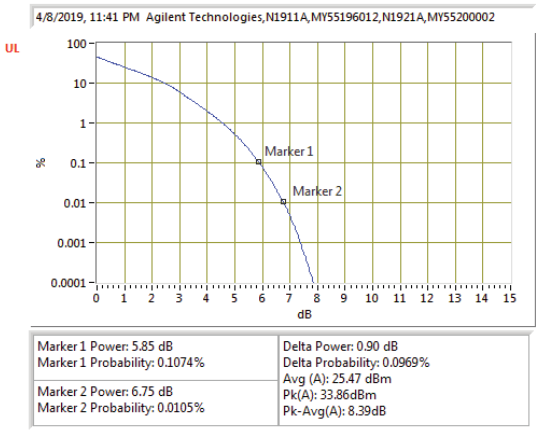
8.5.8. LTE BAND 26 (PART 90S)



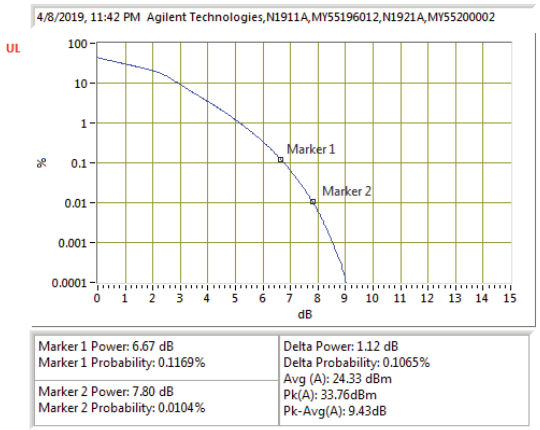
LTE B26 1.4MHz QPSK Middle Channel ID:10646



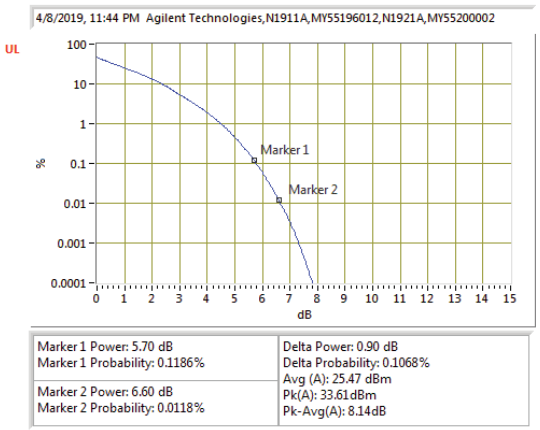
LTE B26 1.4MHz 16QAM Middle Channel ID:10646



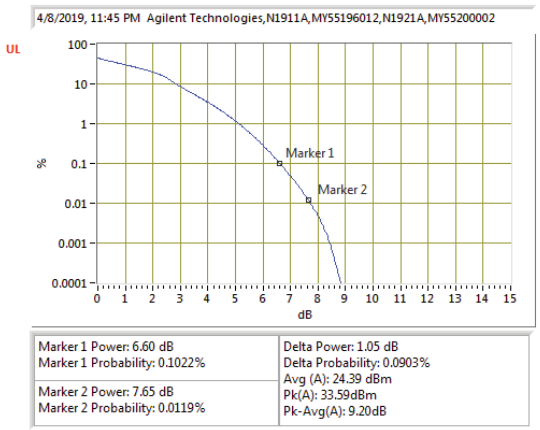
LTE B26 3MHz QPSK Middle Channel ID:10646



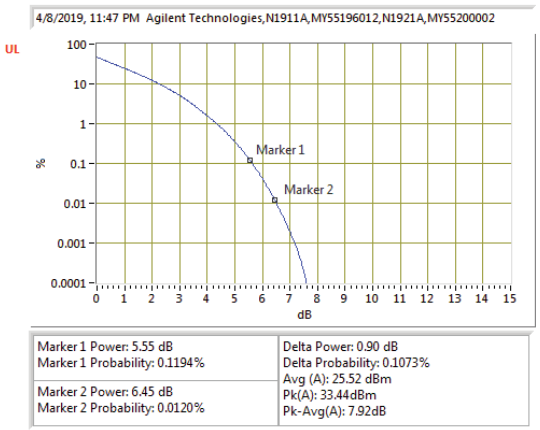
LTE B26 3MHz 16QAM Middle Channel ID:10646



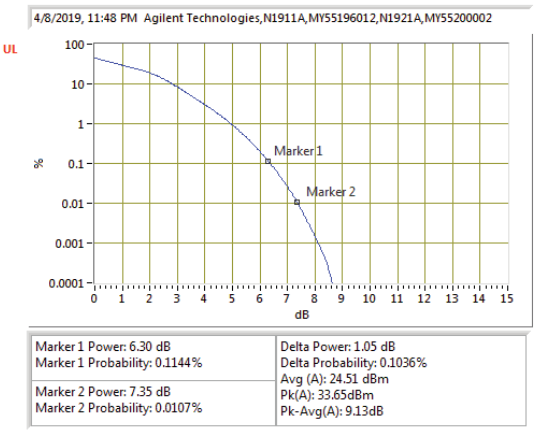
LTE B26 5MHz QPSK Middle Channel ID:10646



LTE B26 5MHz 16QAM Middle Channel ID:10646

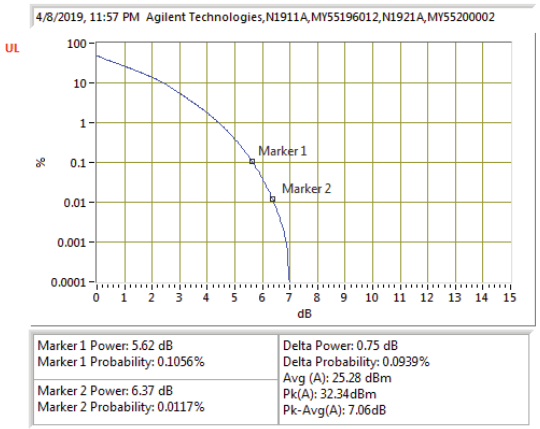


LTE B26 10MHz QPSK Middle Channel ID:10646

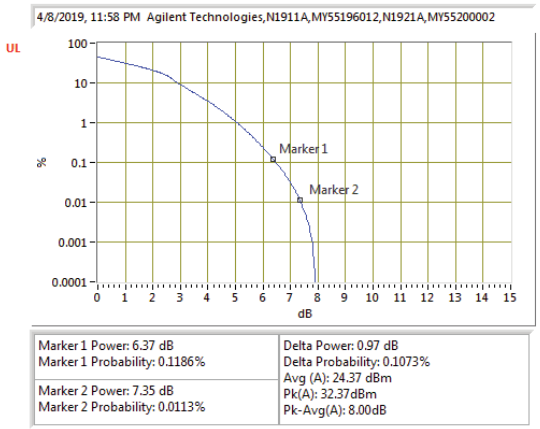


LTE B26 10MHz 16QAM Middle Channel ID:10646

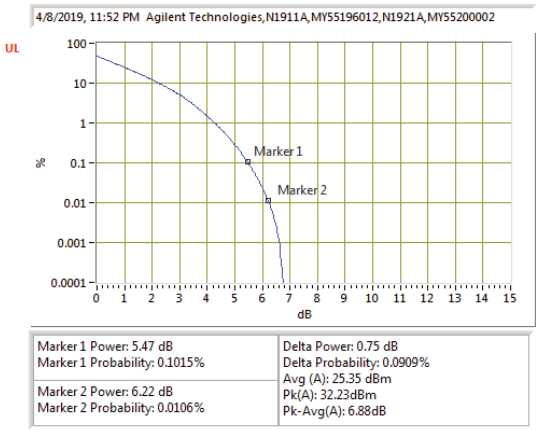
8.5.9. LTE BAND 30



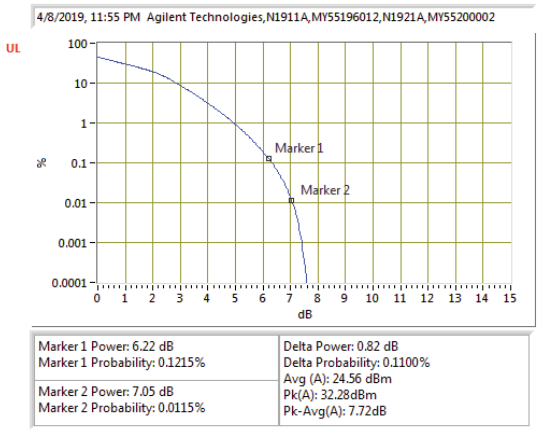
LTE B30 5MHz QPSK Middle Channel ID:10646



LTE B30 5MHz 16QAM Middle Channel ID:10646



LTE B30 10MHz QPSK Middle Channel ID:10646



LTE B30 10MHz 16QAM Middle Channel ID:10646

8.5.10. LTE BAND 41

ID:	10646	Date:	4/8/19

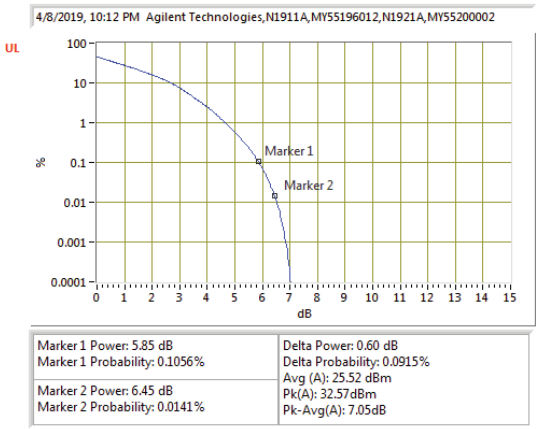
Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
Band 41	5MHz	2593.0	25	0	QPSK	35.55	21.45	7.11
					16QAM	35.27	20.42	7.86
	10MHz		50	0	QPSK	35.37	21.54	6.84
					16QAM	35.36	20.53	7.84
	15MHz		75	0	QPSK	35.28	21.42	6.87
					16QAM	35.49	20.44	8.06
	20MHz		100	0	QPSK	35.14	21.38	6.77
					16QAM	35.00	20.39	7.62
Duty Cycle Correction Factor (dB) =			6.99					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

8.5.11. LTE BAND 48

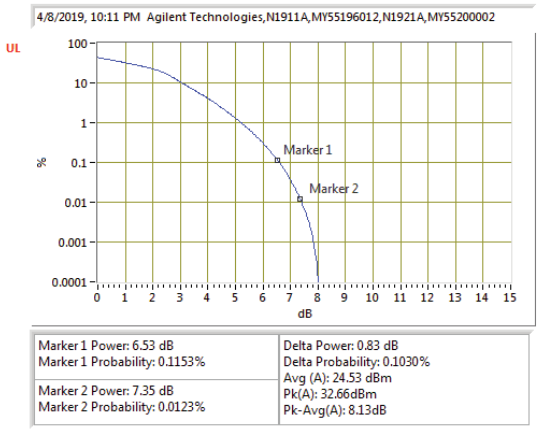
ID:	39004	Date:	6/7/19

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
Band 48	5MHz	3625.0	25	0	QPSK	30.63	15.92	7.72
					16QAM	30.66	14.83	8.84
	10MHz		50	0	QPSK	30.40	15.97	7.44
					16QAM	30.51	14.9	8.62
	15MHz		75	0	QPSK	30.24	15.87	7.38
					16QAM	30.25	14.85	8.41
	20MHz		100	0	QPSK	30.36	15.97	7.40
					16QAM	30.46	14.95	8.52
Duty Cycle Correction Factor (dB) =			6.99					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

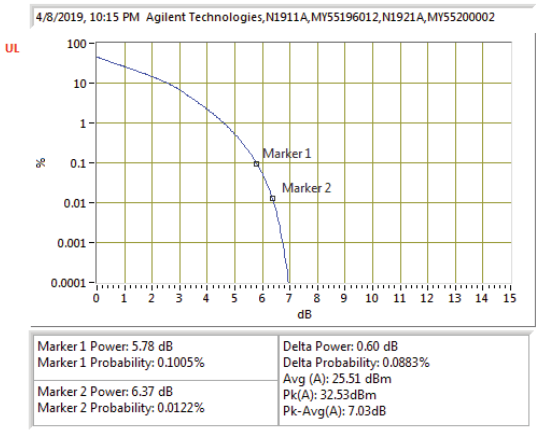
8.5.12. LTE BAND 66



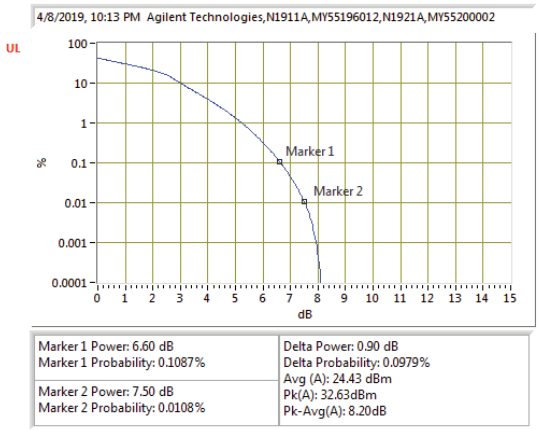
LTE B66 1.4MHz QPSK Middle Channel ID:10646



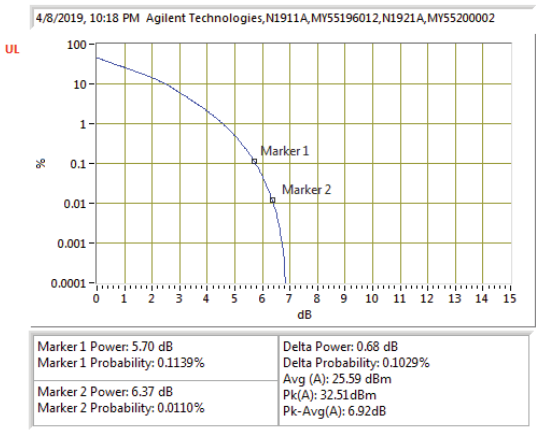
LTE B66 1.4MHz 16QAM Middle Channel ID:10646



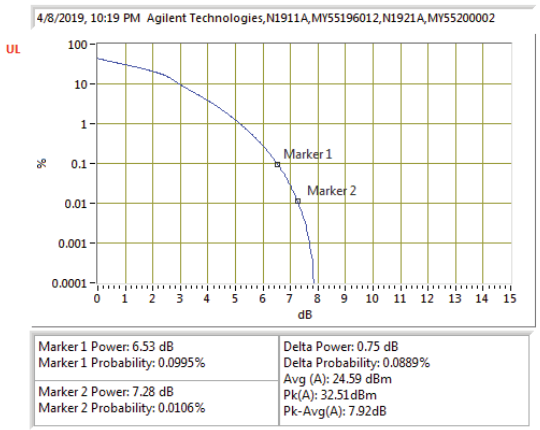
LTE B66 3MHz QPSK Middle Channel ID:10646



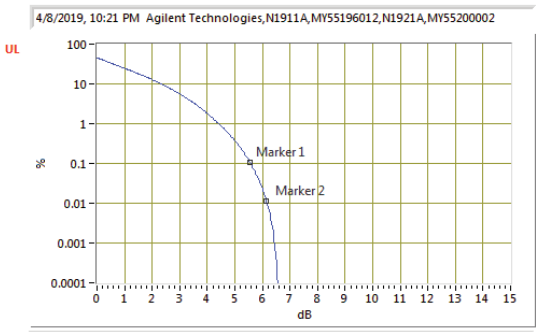
LTE B66 3MHz 16QAM Middle Channel ID:10646



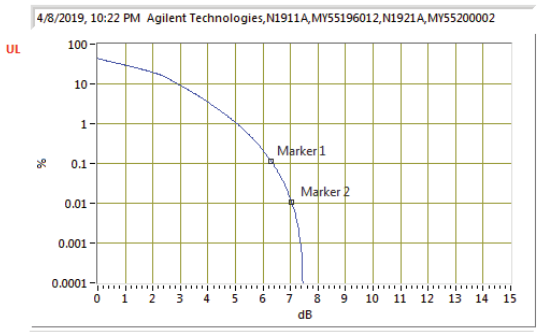
LTE B66 5MHz QPSK Middle Channel ID:10646



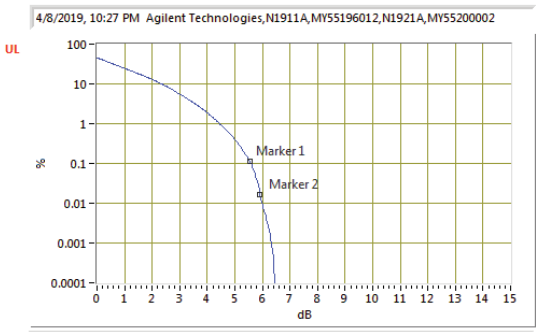
LTE B66 5MHz 16QAM Middle Channel ID:10646



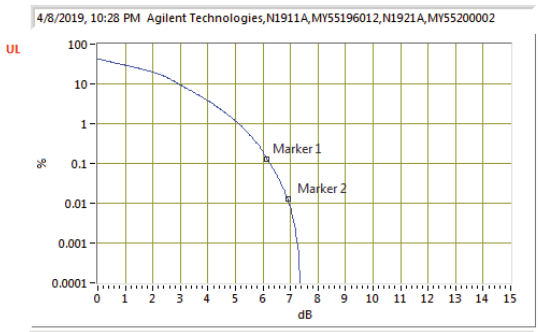
LTE B66 10MHz QPSK Middle Channel ID:10646



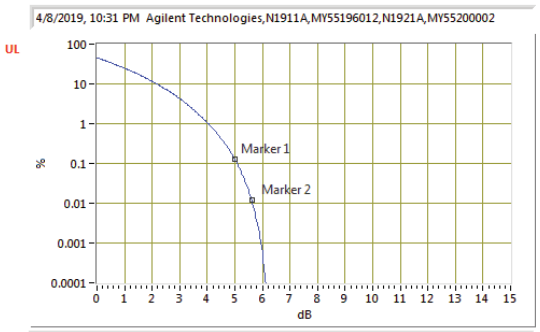
LTE B66 10MHz 16QAM Middle Channel ID:10646



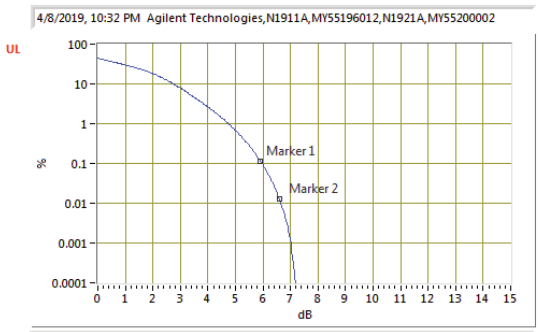
LTE B66 15MHz QPSK Middle Channel ID:10646



LTE B66 15MHz 16QAM Middle Channel ID:10646



LTE B66 20MHz QPSK Middle Channel ID:10646



LTE B66 20MHz 16QAM Middle Channel ID:10646

9. RADIATED TEST RESULTS

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53, §90.669, §90.691, and §96.41

LIMIT

FCC: §22.917(a), §24.238(a), §27.53 (g), (h), §90.691
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

FCC: §27.53 (Band 13)
(c) The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.
(f) Emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

FCC: §90.669 Emission limits. (Band 26)
(a) On any frequency in an MTA licensee's spectrum block that is adjacent to a non-MTA frequency, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 plus 10 log10(P) decibels or 80 decibels, whichever is the lesser attenuation.

FCC: §27.53 (a) (Band 30)
For mobile and portable stations operating in the 2305-2315 MHz: by a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

FCC: §27.53 (m) (Band 7, 41)
At least 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

FCC: §96.41 (Band 48)
(e) 3.5 GHz Emissions and Interference Limits—
(2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

TEST PROCEDURE

KDB 971168 D01/D02 v02r01

MODES TESTED

- LTE Band 2
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 48
- LTE Band 66

RESULTS

For LTE Band 13, no narrow band emissions were observed in the 1559-1610MHz band, so the wide band limit of -70dBW/MHz was applied.

9.1. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 1

9.1.1. LTE BAND 2

Company:	
Project #:	12607353
Date:	5/16/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 2 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.816	-65.57	Pk	33.4	-29.5	11.5	-50.17	-13	-37.17	H
5.101	-67.46	Pk	34.2	-28.4	11.3	-50.36	-13	-37.36	H
3.839	-71.35	Pk	33.4	-29.6	11	-56.55	-13	-43.55	V
5.107	-72.56	Pk	34.2	-28.3	11.3	-55.36	-13	-42.36	V
5.627	-67.96	Pk	35	-28	10.4	-50.56	-13	-37.56	H
5.651	-67.65	Pk	34.9	-28	11	-49.75	-13	-36.75	V
Mid Channel, 1880MHz									
3.857	-68.74	Pk	33.5	-29.7	12	-52.94	-13	-39.94	H
3.358	-69.22	Pk	32.8	-30.1	11.6	-54.92	-13	-41.92	V
3.848	-66.24	Pk	33.4	-29.6	10.9	-51.54	-13	-38.54	V
7.073	-69.56	Pk	35.4	-24.8	10.7	-48.26	-13	-35.26	H
9.683	-71.12	Pk	36.9	-22	11.2	-45.02	-13	-32.02	V
10.055	-72	Pk	36.9	-22.1	10.3	-46.9	-13	-33.9	H
High Channel, 1900MHz									
3.824	-65.62	Pk	33.4	-29.2	11.4	-50.02	-13	-37.02	H
5.133	-67.37	Pk	34.3	-28.6	10.7	-50.97	-13	-37.97	H
3.826	-65.82	Pk	33.4	-29.1	11.1	-50.42	-13	-37.42	V
5.105	-66.78	Pk	34.2	-28.4	11.3	-49.68	-13	-36.68	V
9.714	-71.73	Pk	36.9	-22.3	10.7	-46.43	-13	-33.43	H
9.745	-70.96	Pk	36.9	-22.3	11.1	-45.26	-13	-32.26	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/16/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 2 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.857	-65.97	Pk	33.5	-29.7	12	-50.17	-13	-37.17	H
11.071	-71.34	Pk	37.9	-20.9	10.5	-43.84	-13	-30.84	H
3.87	-66.59	Pk	33.4	-29.4	11.7	-50.89	-13	-37.89	V
11.072	-72.08	Pk	37.9	-20.9	10.6	-44.48	-13	-31.48	V
6.5	-68.85	Pk	35.6	-26.1	10.9	-48.45	-13	-35.45	H
6.5	-69.21	Pk	35.6	-26.1	11.3	-48.41	-13	-35.41	V
Mid Channel, 1880MHz									
4.94	-67.52	Pk	34	-28.5	10.7	-51.32	-13	-38.32	H
7.681	-69.97	Pk	35.6	-24.5	11.2	-47.67	-13	-34.67	H
3.85	-66.2	Pk	33.4	-29.7	10.9	-51.6	-13	-38.6	V
10.979	-71.33	Pk	37.9	-21.1	10.9	-43.63	-13	-30.63	V
3.133	-67.18	Pk	33.1	-30.5	11.5	-53.08	-13	-40.08	H
6.451	-68.77	Pk	35.5	-26.1	11.1	-48.27	-13	-35.27	V
High Channel, 1900MHz									
3.842	-65.17	Pk	33.4	-29.6	11.1	-50.27	-13	-37.27	H
3.759	-65.77	Pk	33.1	-29.7	11.1	-51.27	-13	-38.27	V
6.01	-69.14	Pk	35.1	-27.3	11.3	-50.04	-13	-37.04	H
6.019	-69.42	Pk	35.2	-27.2	11.1	-50.32	-13	-37.32	V
9.78	-70.72	Pk	36.9	-22.4	11	-45.22	-13	-32.22	V
9.801	-71.18	Pk	36.9	-22.3	10.9	-45.68	-13	-32.68	H

Pk - Peak detector

9.1.2. LTE BAND 5

Company:	
Project #:	12607353
Date:	4/9/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 5 QPSK 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 829MHz									
1.663	-65.88	Pk	28.8	-32.4	12.2	-57.28	-13	-44.28	H
1.716	-66.09	Pk	29.3	-32.3	13.3	-55.79	-13	-42.79	V
2.563	-66.87	Pk	32.3	-31.3	12.2	-53.67	-13	-40.67	H
2.631	-65.49	Pk	32.4	-31.1	12.9	-51.29	-13	-38.29	V
3.296	-67.39	Pk	32.9	-30.3	11.4	-53.39	-13	-40.39	H
3.296	-66.76	Pk	32.9	-30.3	11.2	-52.96	-13	-39.96	V
Mid Channel, 836.5MHz									
1.684	-65.8	Pk	28.7	-32.4	12.3	-57.2	-13	-44.2	H
1.717	-65.45	Pk	29.3	-32.3	13.6	-54.85	-13	-41.85	V
2.396	-67.19	Pk	32	-31.4	13.2	-53.39	-13	-40.39	V
2.514	-66.54	Pk	32.3	-31.5	11.5	-54.24	-13	-41.24	H
3.229	-67.58	Pk	32.9	-30.5	11.1	-54.08	-13	-41.08	V
3.245	-67.33	Pk	32.9	-30.6	11.2	-53.83	-13	-40.83	H
High Channel, 844MHz									
1.685	-61.58	Pk	28.7	-32.4	12.3	-52.98	-13	-39.98	H
1.717	-66.02	Pk	29.3	-32.3	13.5	-55.52	-13	-42.52	V
2.531	-67.26	Pk	32.3	-31.3	12.1	-54.16	-13	-41.16	H
2.563	-66.36	Pk	32.3	-31.3	11.8	-53.56	-13	-40.56	V
3.293	-66.61	Pk	32.9	-30.3	11.2	-52.81	-13	-39.81	H
3.297	-67.12	Pk	32.9	-30.3	11.2	-53.32	-13	-40.32	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/9/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 5 16QAM 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 829MHz									
1.709	-66.18	Pk	29.2	-32.3	13.1	-56.18	-13	-43.18	V
1.729	-66.39	Pk	29.5	-32.3	12.3	-56.89	-13	-43.89	H
2.529	-66.64	Pk	32.3	-31.4	12.2	-53.54	-13	-40.54	H
2.58	-66.86	Pk	32.3	-31.3	12.1	-53.76	-13	-40.76	V
3.295	-67.67	Pk	32.9	-30.3	11.2	-53.87	-13	-40.87	V
3.297	-67.28	Pk	32.9	-30.4	11.4	-53.38	-13	-40.38	H
Mid Channel, 836.5MHz									
1.697	-69.19	Pk	28.8	-32.3	12.6	-60.09	-13	-47.09	H
1.68	-60.27	Pk	28.7	-32.4	10.9	-53.07	-13	-40.07	V
2.394	-70.5	Pk	32	-31.4	13.2	-56.7	-13	-43.7	V
2.462	-70.02	Pk	32.4	-31.6	12.3	-56.92	-13	-43.92	H
3.278	-70	Pk	32.9	-30.5	10.8	-56.8	-13	-43.8	V
3.312	-70.84	Pk	32.8	-30.3	11.5	-56.84	-13	-43.84	H
High Channel, 844MHz									
1.694	-59.54	Pk	28.7	-32.3	12.4	-50.74	-13	-37.74	V
3.346	-70.13	Pk	32.9	-30.2	11	-56.43	-13	-43.43	V
1.747	-67.13	Pk	29.7	-32.2	11.9	-57.73	-13	-44.73	H
2.531	-65.66	Pk	32.3	-31.4	12.1	-52.66	-13	-39.66	V
2.583	-67.87	Pk	32.3	-31.3	12.3	-54.57	-13	-41.57	H
3.449	-68.6	Pk	32.8	-30.1	11.6	-54.3	-13	-41.3	H

Pk - Peak detector

9.1.3. LTE BAND 7

Company:	
Project #:	12607353
Date:	5/20/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 7 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
3.854	-66.04	Pk	33.6	-29.7	11.6	-50.54	-25	-25.54	H
10.787	-71.98	Pk	37.8	-20.5	10.8	-43.88	-25	-18.88	H
3.848	-66.47	Pk	33.6	-29.6	10.9	-51.57	-25	-26.57	V
10.993	-71.63	Pk	37.9	-21.1	10.9	-43.93	-25	-18.93	V
6.387	-68.82	Pk	35.6	-26.2	10.6	-48.82	-25	-23.82	V
6.454	-69.47	Pk	35.5	-26	10.8	-49.17	-25	-24.17	H
Mid Channel, 2535MHz									
4.328	-67.41	Pk	33.9	-28.8	10.8	-51.51	-25	-26.51	H
11.569	-73.04	Pk	38.3	-20.9	10.9	-44.74	-25	-19.74	H
11.437	-72.22	Pk	38.1	-20.8	10.9	-44.02	-25	-19.02	V
4.436	-66.99	Pk	33.9	-29.1	11.6	-50.59	-25	-25.59	V
7.777	-70.15	Pk	35.8	-24.5	11	-47.85	-25	-22.85	H
7.781	-70.02	Pk	35.8	-24.4	11.1	-47.52	-25	-22.52	V
High Channel, 2560MHz									
3.889	-65.85	Pk	33.6	-29.3	11.3	-50.25	-25	-25.25	H
3.869	-67.88	Pk	33.6	-29.4	11.6	-52.08	-25	-27.08	V
12.548	-72.89	Pk	39.1	-20.9	10.7	-43.99	-25	-18.99	V
6.452	-69.28	Pk	35.5	-26	10.8	-48.98	-25	-23.98	H
6.507	-68.86	Pk	35.6	-26	11.3	-47.96	-25	-22.96	V
12.779	-72.37	Pk	39.3	-21	10.8	-43.27	-25	-18.27	H

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/20/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 7 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
3.893	-65.41	Pk	33.6	-29.4	11.4	-49.81	-25	-24.81	H
3.893	-65.75	Pk	33.6	-29.4	11.2	-50.35	-25	-25.35	V
5.957	-68.57	Pk	35.3	-27.2	11.1	-49.37	-25	-24.37	V
6.016	-68.37	Pk	35.5	-27.3	11.2	-48.97	-25	-23.97	H
9.665	-70.97	Pk	36.9	-22.1	11	-45.17	-25	-20.17	V
9.669	-70.98	Pk	36.9	-22	10.9	-45.18	-25	-20.18	H
Mid Channel, 2535MHz									
3.894	-65.83	Pk	33.6	-29.5	11.3	-50.43	-25	-25.43	H
12.522	-72.08	Pk	39.1	-20.7	10.6	-43.08	-25	-18.08	H
3.839	-66.66	Pk	33.5	-29.6	11	-51.76	-25	-26.76	V
12.477	-72.23	Pk	39.1	-20.2	10.3	-43.03	-25	-18.03	V
7.12	-68.89	Pk	35.6	-25.2	10.5	-47.99	-25	-22.99	H
7.171	-69.04	Pk	35.6	-25.1	10.7	-47.84	-25	-22.84	V
High Channel, 2560MHz									
3.891	-65.95	Pk	33.6	-29.4	11.3	-50.45	-25	-25.45	H
3.826	-66.17	Pk	33.5	-29.1	11.1	-50.67	-25	-25.67	V
12.508	-73.14	Pk	39.1	-20.4	10.8	-43.64	-25	-18.64	V
6.441	-68.23	Pk	35.5	-26.2	10.5	-48.43	-25	-23.43	H
6.443	-68.77	Pk	35.5	-26.2	10.9	-48.57	-25	-23.57	V
12.794	-72.79	Pk	39.3	-20.9	10.8	-43.59	-25	-18.59	H

Pk - Peak detector

9.1.4. LTE BAND 12

Company:	
Project #:	12607353
Date:	4/9/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 12 QPSK 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 704MHz									
8.085	-69.46	Pk	35.9	-24.1	11.2	-46.46	-13	-33.46	H
7.706	-70.17	Pk	35.8	-24.6	11.2	-47.77	-13	-34.77	V
1.939	-66.69	Pk	31.1	-31.9	12.6	-54.89	-13	-41.89	V
2.099	-63.03	Pk	31.3	-32	12	-51.73	-13	-38.73	H
2.099	-43.18	Pk	31.3	-31.9	11	-32.78	-13	-19.78	V
6.324	-69.06	Pk	35.6	-26.3	10.7	-49.06	-13	-36.06	H
Mid Channel, 707.5MHz									
1.405	-65.97	Pk	28.5	-32.6	13	-57.07	-13	-44.07	H
2.783	-67.31	Pk	32.4	-31.1	11.6	-54.41	-13	-41.41	H
1.404	-65.82	Pk	28.5	-32.6	12.5	-57.42	-13	-44.42	V
2.766	-66.76	Pk	32.4	-31.1	11.8	-53.66	-13	-40.66	V
2.122	-66.26	Pk	31.3	-31.8	13.1	-53.66	-13	-40.66	H
2.124	-65.69	Pk	31.3	-31.7	12.9	-53.19	-13	-40.19	V
High Channel, 711MHz									
1.151	-64.72	Pk	27.5	-33.1	15.2	-55.12	-13	-42.12	H
5.099	-66.1	Pk	34.2	-28.4	11.4	-48.9	-13	-35.9	V
2.119	-64.92	Pk	31.3	-31.8	12.4	-53.02	-13	-40.02	V
2.12	-64.7	Pk	31.3	-31.8	13.1	-52.1	-13	-39.1	H
2.407	-66.15	Pk	32.1	-31.3	12.3	-53.05	-13	-40.05	V
7.879	-69.81	Pk	35.9	-24.5	11.2	-47.21	-13	-34.21	H

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/9/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 12 16QAM 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, Low Channel, 704MHz									
1.352	-65.14	Pk	29.1	-32.8	12.2	-56.64	-13	-43.64	H
1.936	-65.34	Pk	31	-31.9	11.8	-54.44	-13	-41.44	V
1.967	-65.19	Pk	31.5	-32.1	11.5	-54.29	-13	-41.29	H
3.056	-67.11	Pk	33	-30.8	11.9	-53.01	-13	-40.01	V
5.235	-67.21	Pk	34.3	-28.3	11.3	-49.91	-13	-36.91	H
7.244	-73.22	Pk	35.6	-25	11.2	-51.42	-13	-38.42	V
Mid Channel, 707.5MHz									
1.421	-66.3	Pk	28.3	-32.5	10.7	-59.8	-13	-46.8	H
2.802	-67.09	Pk	32.4	-31	12.3	-53.39	-13	-40.39	H
1.426	-76.29	Av	28.2	-32.6	10.1	-70.59	-13	-57.59	V
2.819	-76.66	Av	32.4	-30.8	12.2	-62.86	-13	-49.86	V
2.124	-59.19	Pk	31.3	-31.7	13	-46.59	-13	-33.59	H
2.19	-76.84	Av	31.4	-31.5	12.5	-64.44	-13	-51.44	V
High Channel, 711MHz									
4.231	-67	Pk	33.7	-29.2	11.7	-50.8	-13	-37.8	H
11.043	-71.8	Pk	37.9	-21	10.6	-44.3	-13	-31.3	H
4.848	-67.59	Pk	34.1	-28.6	11	-51.09	-13	-38.09	V
1.871	-65.41	Pk	30.9	-32	11.9	-54.61	-13	-41.61	H
2.136	-66	Pk	31.3	-31.8	13.1	-53.4	-13	-40.4	V
2.393	-66.1	Pk	32	-31.4	13.1	-52.4	-13	-39.4	V

Pk - Peak detector

9.1.5. LTE BAND 13

Project #:	12607353
Date:	4/10/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 13 QPSK 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 782MHz									
1.589	-69.73	Pk	28.1	-32.5	11.7	-62.43	-40	-22.43	H
2.333	-64.95	Pk	31.7	-31.6	12.5	-52.35	-13	-39.35	H
4.039	-67.15	Pk	33.7	-29.6	11.2	-51.85	-13	-38.85	H
1.58	-69.04	Pk	28.1	-32.4	12.3	-61.04	-40	-21.04	V
3.878	-65.34	Pk	33.6	-29.4	12	-49.14	-13	-36.14	V
5.858	-68.14	Pk	35.1	-27	10.7	-49.34	-13	-36.34	V

Project #:	12607353
Date:	4/10/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 13 16QAM 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 782MHz									
1.567	-69.68	Pk	28.1	-32.4	11.9	-62.08	-40	-22.08	H
3.88	-65.1	Pk	33.6	-29.4	11.8	-49.1	-13	-36.1	V
10.855	-71.32	Pk	37.9	-20.4	11.3	-42.52	-13	-29.52	V
1.572	-68.88	Pk	28.1	-32.5	12.1	-61.18	-40	-21.18	V
2.072	-65.79	Pk	31.2	-31.7	13	-53.29	-13	-40.29	H
5.22	-67.71	Pk	34.3	-28.2	11.1	-50.51	-13	-37.51	H

Pk - Peak detector

9.1.6. LTE BAND 17

Project #:	12607353
Date:	5/22/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 17 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 710MHz									
1.387	-71.04	Pk	29.4	-32.7	12.1	-62.24	-13	-49.24	V
1.394	-69.85	Pk	29.1	-32.6	13.1	-60.25	-13	-47.25	H
2.137	-69.98	Pk	31.3	-31.8	13	-57.48	-13	-44.48	V
2.142	-71.13	Pk	31.3	-31.7	12	-59.53	-13	-46.53	H
2.871	-69.08	Pk	32.1	-30.6	11.7	-55.88	-13	-42.88	H
2.876	-70.98	Pk	32.2	-30.6	12.6	-56.78	-13	-43.78	V

Project #:	12607353
Date:	5/22/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 17 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 710MHz									
1.385	-71.81	Pk	29.4	-32.6	12.3	-62.71	-13	-49.71	H
1.387	-71.65	Pk	29.4	-32.7	12.1	-62.85	-13	-49.85	V
2.125	-70.14	Pk	31.3	-31.7	12.9	-57.64	-13	-44.64	H
2.125	-69.79	Pk	31.3	-31.6	13.1	-56.99	-13	-43.99	V
2.791	-70.88	Pk	32.6	-31.1	11.7	-57.68	-13	-44.68	V
2.808	-70.72	Pk	32.4	-30.9	12.4	-56.82	-13	-43.82	H

Pk - Peak detector

9.1.7. LTE BAND 25

Company:	
Project #:	12607353
Date:	4/9/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 25 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.702	-64.11	Pk	33.1	-29.8	11.2	-49.61	-13	-36.61	H
3.702	-64.54	Pk	33.1	-29.8	11.3	-49.94	-13	-36.94	V
4.864	-66.62	Pk	34.1	-28.4	11.3	-49.62	-13	-36.62	V
10.925	-71.41	Pk	37.9	-20.9	11.1	-43.31	-13	-30.31	V
5.553	-62.14	Pk	34.8	-28	10.8	-44.54	-13	-31.54	H
13.638	-70.41	Pk	38.8	-20.8	10.8	-41.61	-13	-28.61	H
Mid Channel, 1882.5MHz									
3.609	-65.98	Pk	33.1	-29.9	11.1	-51.68	-13	-38.68	H
4.852	-66.6	Pk	34.1	-28.6	11.3	-49.8	-13	-36.8	H
4.225	-65.7	Pk	33.6	-29.4	11.1	-50.4	-13	-37.4	V
2.989	-66.12	Pk	32.8	-30.8	12	-52.12	-13	-39.12	V
13.595	-70.22	Pk	39	-20.3	10.5	-41.02	-13	-28.02	H
13.628	-70.69	Pk	38.7	-20.9	10.8	-42.09	-13	-29.09	V
High Channel, 1905MHz									
2.371	-66.52	Pk	31.9	-31.2	13.1	-52.72	-13	-39.72	H
3.883	-65.62	Pk	33.6	-29.4	11.2	-50.22	-13	-37.22	H
3.357	-67.54	Pk	32.9	-30.1	11.6	-53.14	-13	-40.14	V
6.39	-68.92	Pk	35.6	-26	10.6	-48.72	-13	-35.72	V
12.776	-72.32	Pk	39.3	-21	10.7	-43.32	-13	-30.32	H
13.683	-76.17	Pk	38.8	-20.8	10.7	-47.47	-13	-34.47	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/9/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 25 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
2.756	-65.98	Pk	32.4	-31	12.7	-51.88	-13	-38.88	H
4.856	-66.6	Pk	34.1	-28.6	11.4	-49.7	-13	-36.7	H
4.852	-66.33	Pk	34.1	-28.6	11.3	-49.53	-13	-36.53	V
10.849	-70.64	Pk	37.9	-20.2	11	-41.94	-13	-28.94	V
2.401	-66.66	Pk	32	-31.4	12.5	-53.56	-13	-40.56	V
6.494	-68.73	Pk	35.5	-26.1	10.8	-48.53	-13	-35.53	H
Mid Channel, 1882.5MHz									
3.872	-64.37	Pk	33.6	-29.5	12	-48.27	-13	-35.27	H
4.85	-66.67	Pk	34.1	-28.6	11.2	-49.97	-13	-36.97	H
3.881	-65.09	Pk	33.6	-29.4	11.6	-49.29	-13	-36.29	V
9.174	-70.21	Pk	36.4	-22.8	11.1	-45.51	-13	-32.51	V
2.395	-66.18	Pk	32	-31.4	13.2	-52.38	-13	-39.38	V
5.804	-68.06	Pk	35	-27.3	10.3	-50.06	-13	-37.06	H
High Channel, 1905MHz									
2.688	-65.96	Pk	32.4	-31.1	12	-52.66	-13	-39.66	H
3.874	-65.68	Pk	33.6	-29.5	12	-49.58	-13	-36.58	H
4.538	-65.99	Pk	34.1	-29	11.2	-49.69	-13	-36.69	H
4.362	-66.58	Pk	33.9	-28.6	11.4	-49.88	-13	-36.88	V
4.856	-66.19	Pk	34.1	-28.6	11.4	-49.29	-13	-36.29	V
9.513	-70.41	Pk	36.7	-23	11.1	-45.61	-13	-32.61	V

Pk - Peak detector

9.1.8. LTE BAND 26 (PART 90S)

Project #:	12607353
Date:	5/22/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 26(90s) QPSK 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 819MHz									
1.641	-66.58	Pk	28.6	-32.3	12.2	-58.08	-13	-45.08	H
1.643	-65.53	Pk	28.6	-32.4	11.5	-57.83	-13	-44.83	V
2.39	-67.21	Pk	32.2	-31.5	12.4	-54.11	-13	-41.11	H
2.396	-67.01	Pk	32.2	-31.4	13.2	-53.01	-13	-40.01	V
3.273	-66.8	Pk	32.9	-30.4	10.3	-54	-13	-41	H
3.281	-66.85	Pk	32.9	-30.3	10.7	-53.55	-13	-40.55	V

Project #:	12607353
Date:	5/22/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 26(90s) 16QAM 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 819MHz									
1.652	-65.47	Pk	28.7	-32.4	12.1	-57.07	-13	-44.07	H
1.657	-65.51	Pk	28.7	-32.5	11.7	-57.61	-13	-44.61	V
2.456	-67.46	Pk	32.5	-31.5	11.5	-54.96	-13	-41.96	V
2.474	-67.76	Pk	32.7	-31.5	11.8	-54.76	-13	-41.76	H
3.2	-67.12	Pk	33.5	-30.6	11.4	-52.82	-13	-39.82	H
3.218	-67.42	Pk	33	-30.6	11.5	-53.52	-13	-40.52	V

Pk - Peak detector

9.1.9. LTE BAND 30

Project #:	12607353
Date:	4/10/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 30 QPSK 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.587	-66.73	Pk	34.2	-29.1	10.5	-51.13	-40	-11.13	H
4.587	-66.63	Pk	34.2	-29.1	10.1	-51.43	-40	-11.43	V
9.143	-71.44	Pk	36.4	-23	11.1	-46.94	-40	-6.94	V
6.832	-70.03	Pk	35.5	-25.1	10.6	-49.03	-40	-9.03	V
6.883	-71.97	Pk	35.6	-24.9	10.5	-50.77	-40	-10.77	H
9.298	-70.61	Pk	36.4	-23.2	10.9	-46.51	-40	-6.51	H

Project #:	12607353
Date:	4/10/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 30 16QAM 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.6	-66.22	Pk	34.2	-29.1	10.8	-50.32	-40	-10.32	H
9.142	-71.81	Pk	36.4	-23	11	-47.41	-40	-7.41	H
4.587	-66.1	Pk	34.2	-29.1	10.1	-50.9	-40	-10.9	V
9.144	-70.98	Pk	36.4	-23	11.1	-46.48	-40	-6.48	V
6.831	-70.17	Pk	35.5	-25.1	10.5	-49.27	-40	-9.27	H
6.832	-70.29	Pk	35.5	-25.1	10.5	-49.39	-40	-9.39	V

Pk - Peak detector

9.1.10. LTE BAND 41

Company:	
Project #:	12607353
Date:	4/10/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 41 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
4.979	-67.93	Pk	34.1	-28.4	11.1	-51.13	-25	-26.13	H
7.58	-71.68	Pk	35.7	-24.3	10.6	-49.68	-25	-24.68	H
4.979	-68.23	Pk	34.1	-28.4	10.9	-51.63	-25	-26.63	V
7.613	-71.98	Pk	35.7	-24.4	11.2	-49.48	-25	-24.48	V
10.094	-72.9	Pk	37.3	-22	10.4	-47.2	-25	-22.20	H
10.179	-71.58	Pk	37.3	-21.4	10.7	-44.98	-25	-19.98	V
Mid Channel, 2593MHz									
5.115	-67.51	Pk	34.2	-28.5	11.1	-50.71	-25	-25.71	H
5.169	-68.59	Pk	34.2	-28.5	11.6	-51.29	-25	-26.29	V
7.818	-71.02	Pk	35.8	-24.4	11.3	-48.32	-25	-23.32	V
7.851	-70.73	Pk	35.8	-24.5	11.1	-48.33	-25	-23.33	H
10.3	-71.39	Pk	37.4	-21.3	10.2	-45.09	-25	-20.09	H
10.316	-72.16	Pk	37.5	-21.3	10	-45.96	-25	-20.96	V
High Channel, 2680MHz									
3.82	-64.91	Pk	33.5	-29.5	11.6	-49.31	-25	-24.31	H
7.257	-71.83	Pk	35.6	-25	10.6	-50.63	-25	-25.63	H
11.024	-70.94	Pk	37.9	-20.8	10.5	-43.34	-25	-18.34	H
3.932	-64.19	Pk	33.6	-29.5	11.5	-48.59	-25	-23.59	V
3.016	-65.91	Pk	33	-30.8	11.8	-51.91	-25	-26.91	V
10.274	-71.29	Pk	37.5	-21.5	10.1	-45.19	-25	-20.19	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/10/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 41 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
4.997	-66.8	Pk	34.1	-28.4	10.7	-50.4	-25	-25.40	H
7.544	-70.95	Pk	35.7	-24.4	10.7	-48.95	-25	-23.95	H
4.996	-66.98	Pk	34.1	-28.4	10.8	-50.48	-25	-25.48	V
7.562	-71.77	Pk	35.7	-24.4	11.3	-49.17	-25	-24.17	V
9.957	-73.38	Pk	37.1	-22.4	10.5	-48.18	-25	-23.18	V
10.11	-72.79	Pk	37.3	-21.8	10.6	-46.69	-25	-21.69	H
Mid Channel, 2593MHz									
7.698	-69.92	Pk	35.8	-24.6	11.1	-47.62	-25	-22.62	H
7.682	-69.65	Pk	35.7	-24.5	11.4	-47.05	-25	-22.05	V
5.271	-68.7	Pk	34.4	-27.9	11.1	-51.1	-25	-26.10	H
5.284	-67.9	Pk	34.4	-27.9	11	-50.4	-25	-25.40	V
10.298	-72.22	Pk	37.4	-21.4	10.2	-46.02	-25	-21.02	H
10.299	-71.84	Pk	37.4	-21.4	10.3	-45.54	-25	-20.54	V
High Channel, 2680MHz									
3.826	-64.72	Pk	33.5	-29.1	11.4	-48.92	-25	-23.92	H
7.254	-70.39	Pk	35.6	-24.9	10.7	-48.99	-25	-23.99	H
3.93	-64.81	Pk	33.6	-29.5	11.5	-49.21	-25	-24.21	V
10.856	-72.04	Pk	37.9	-20.4	11.3	-43.24	-25	-18.24	V
5.834	-68.16	Pk	35	-27.2	11	-49.36	-25	-24.36	V
5.994	-67.65	Pk	35.4	-27.1	11.1	-48.25	-25	-23.25	H

Pk - Peak detector

9.1.11. LTE BAND 48

Company:	
Project #:	12607353
Date:	5/20/2019
Test Engineer:	12491
Configuration:	EUT Only
Mode:	LTE 48 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
10.682	-76.19	Pk	37.9	-21.2	10.7	-48.79	-40	-8.79	H
10.682	-76.12	Pk	37.9	-21.2	11	-48.42	-40	-8.42	V
7.109	-72.58	Pk	35.4	-25.3	10.3	-52.18	-40	-12.18	V
7.123	-74.26	Pk	35.6	-25.2	10.7	-53.16	-40	-13.16	H
14.235	-74.65	Pk	39.1	-20.7	10.9	-45.35	-40	-5.35	V
14.236	-74.02	Pk	39.1	-20.7	11.1	-44.52	-40	-4.52	H
Mid Channel, 3625MHz									
10.862	-74.71	Pk	38	-20.6	10.9	-46.41	-40	-6.41	H
10.801	-73.09	Pk	37.9	-20.8	11	-44.99	-40	-4.99	V
7.24	-73.33	Pk	35.5	-25.1	11	-51.93	-40	-11.93	V
7.241	-73.59	Pk	35.5	-25	10.6	-52.49	-40	-12.49	H
14.456	-74.56	Pk	39.7	-21.1	10.5	-45.46	-40	-5.46	V
14.466	-73.16	Pk	39.7	-21.1	11	-43.56	-40	-3.56	H
High Channel, 3690MHz									
7.372	-74.42	Pk	35.6	-24.6	11.1	-52.32	-40	-12.32	H
11.067	-76.26	Pk	37.9	-20.9	10.5	-48.76	-40	-8.76	H
7.376	-75.12	Pk	35.6	-24.5	11.4	-52.62	-40	-12.62	V
11.063	-76.1	Pk	37.9	-21	10.7	-48.5	-40	-8.5	V
14.788	-76.24	Pk	39.9	-20.3	10.9	-45.74	-40	-5.74	V
14.803	-74.53	Pk	39.9	-20.2	10.6	-44.23	-40	-4.23	H

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/20/2019
Test Engineer:	12491
Configuration:	EUT Only
Mode:	LTE 48 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
10.673	-76.77	Pk	37.9	-21.1	10.7	-49.27	-40	-9.27	H
10.682	-74.79	Pk	37.9	-21.2	11	-47.09	-40	-7.09	V
7.113	-73.13	Pk	35.5	-25.3	10.1	-52.83	-40	-12.83	H
7.115	-73.8	Pk	35.5	-25.3	10.5	-53.1	-40	-13.1	V
14.235	-74.93	Pk	39.1	-20.7	11.1	-45.43	-40	-5.43	H
14.239	-74.02	Pk	39.1	-20.7	10.8	-44.82	-40	-4.82	V
Mid Channel, 3625MHz									
7.251	-72.84	Pk	35.5	-24.9	10.7	-51.54	-40	-11.54	H
10.878	-76.08	Pk	37.9	-20.9	10.6	-48.48	-40	-8.48	H
10.874	-74.03	Pk	37.9	-20.9	11	-46.03	-40	-6.03	V
7.241	-73.25	Pk	35.5	-25	11.1	-51.65	-40	-11.65	V
14.502	-76.15	Pk	39.8	-20.9	10.4	-46.85	-40	-6.85	H
14.504	-75.2	Pk	39.8	-21	10.4	-46	-40	-6	V
High Channel, 3690MHz									
7.366	-75.35	Pk	35.6	-24.6	10.8	-53.55	-40	-13.55	H
11.068	-75.73	Pk	37.9	-20.9	10.5	-48.23	-40	-8.23	H
7.361	-73.82	Pk	35.6	-24.6	11.3	-51.52	-40	-11.52	V
11.069	-75.69	Pk	37.9	-20.9	10.7	-47.99	-40	-7.99	V
14.753	-74.22	Pk	39.9	-20.5	10.1	-44.72	-40	-4.72	V
14.756	-74.95	Pk	39.9	-20.4	10.2	-45.25	-40	-5.25	H

Pk - Peak detector

9.1.12. LTE BAND 66

Company:	
Project #:	12607353
Date:	4/11/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 66 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
2.748	-66.88	Pk	32.3	-31.3	12.6	-53.28	-13	-40.28	H
4.057	-66.43	Pk	33.7	-29.3	11.4	-50.63	-13	-37.63	V
5.134	-67.27	Pk	34.2	-28.6	10.9	-50.77	-13	-37.77	V
2.12	-61.72	Pk	31.3	-31.8	13.1	-49.12	-13	-36.12	H
2.12	-57.51	Pk	31.3	-31.8	12.5	-45.51	-13	-32.51	V
12.873	-72.22	Pk	39.4	-21.1	10.6	-43.32	-13	-30.32	H
Mid Channel, 1745MHz									
3.859	-64.94	Pk	33.6	-29.6	12	-48.94	-13	-35.94	H
4.326	-66.87	Pk	33.9	-28.7	10.9	-50.77	-13	-37.77	V
10.844	-72.4	Pk	38	-20.2	10.8	-43.8	-13	-30.8	V
2.145	-58.95	Pk	31.3	-31.7	12.6	-46.75	-13	-33.75	V
2.198	-69.48	Pk	31.4	-31.4	12.3	-57.18	-13	-44.18	H
5.222	-67.43	Pk	34.3	-28.2	11.1	-50.23	-13	-37.23	H
High Channel, 1770MHz									
3.858	-65.7	Pk	33.6	-29.7	12	-49.8	-13	-36.8	H
3.869	-65.93	Pk	33.6	-29.4	11.5	-50.23	-13	-37.23	V
7.687	-69.98	Pk	35.8	-24.4	11.3	-47.28	-13	-34.28	V
2.129	-65.76	Pk	31.3	-31.6	12.6	-53.46	-13	-40.46	H
2.14	-66.24	Pk	31.3	-31.7	12.8	-53.84	-13	-40.84	V
7.09	-69.74	Pk	35.6	-25.2	10.4	-48.94	-13	-35.94	H

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/11/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 66 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
11.77	-71.95	Pk	38.4	-20.7	10.8	-43.45	-13	-30.45	H
2.876	-65.87	Pk	32.3	-30.6	12.6	-51.57	-13	-38.57	V
3.831	-63.82	Pk	33.5	-29.4	11.2	-48.52	-13	-35.52	V
3.443	-65.87	Pk	32.8	-30.2	11.6	-51.67	-13	-38.67	H
5.551	-67.16	Pk	34.8	-28.1	10.8	-49.66	-13	-36.66	H
6.561	-68.55	Pk	35.5	-26	11.2	-47.85	-13	-34.85	V
Mid Channel, 1745MHz									
3.932	-64.14	Pk	33.6	-29.5	11.4	-48.64	-13	-35.64	H
4.339	-66.08	Pk	34	-28.9	11.1	-49.88	-13	-36.88	H
11.446	-71.75	Pk	38.1	-20.8	10.9	-43.55	-13	-30.55	H
3.931	-65.16	Pk	33.6	-29.5	11.5	-49.56	-13	-36.56	V
4.572	-66.35	Pk	34.2	-28.8	10.4	-50.55	-13	-37.55	V
13.6	-70.89	Pk	38.7	-20.4	10.3	-42.29	-13	-29.29	V
High Channel, 1770MHz									
3.826	-64.72	Pk	33.5	-29.1	11.4	-48.92	-13	-35.92	H
7.254	-70.39	Pk	35.6	-24.9	10.7	-48.99	-13	-35.99	H
3.93	-64.81	Pk	33.6	-29.5	11.5	-49.21	-13	-36.21	V
10.856	-72.04	Pk	37.9	-20.4	11.3	-43.24	-13	-30.24	V
5.834	-68.16	Pk	35	-27.2	11	-49.36	-13	-36.36	V
5.994	-67.65	Pk	35.4	-27.1	11.1	-48.25	-13	-35.25	H

Pk - Peak detector

9.2. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 2

9.2.1. LTE BAND 2

Company:	
Project #:	12607353
Date:	5/17/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 2 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.773	-65.47	Pk	33.1	-29.8	11.3	-50.87	-13	-37.87	H
3.816	-64.35	Pk	33.4	-29.5	11.4	-49.05	-13	-36.05	V
7.315	-69.78	Pk	35.5	-24.9	11.4	-47.78	-13	-34.78	V
6.013	-68.05	Pk	35.1	-27.3	11.1	-49.15	-13	-36.15	H
9.647	-70.34	Pk	36.8	-22.3	10.8	-45.04	-13	-32.04	H
9.745	-70.47	Pk	36.9	-22.4	11.1	-44.87	-13	-31.87	V
Mid Channel, 1880MHz									
3.759	-66.02	Pk	33.1	-29.7	11.5	-51.12	-13	-38.12	H
10.853	-71.88	Pk	37.9	-20.2	10.7	-43.48	-13	-30.48	H
3.882	-77.01	Pk	33.3	-29.4	11.5	-61.61	-13	-48.61	V
7.659	-69.57	Pk	35.6	-24.6	11.2	-47.37	-13	-34.37	V
10.862	-71.89	Pk	38	-20.6	11.3	-43.19	-13	-30.19	V
7.997	-69.4	Pk	35.7	-24.2	11.3	-46.6	-13	-33.6	H
HighChannel, 1900MHz									
3.83	-65.29	Pk	33.4	-29.3	11.3	-49.89	-13	-36.89	H
11.472	-71.33	Pk	38.1	-20.9	10.9	-43.23	-13	-30.23	H
3.812	-66.14	Pk	33.4	-29.4	11	-51.14	-13	-38.14	V
11.475	-72.08	Pk	38.2	-20.9	10.9	-43.88	-13	-30.88	V
6.57	-68.65	Pk	35.6	-26.2	11.4	-47.85	-13	-34.85	V
6.599	-69.63	Pk	35.7	-26.1	10.3	-49.73	-13	-36.73	H

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/17/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 2 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.887	-65.49	Pk	33.4	-29.4	11.2	-50.29	-13	-37.29	H
11.048	-70.5	Pk	37.9	-21	10.6	-43	-13	-30	H
3.879	-65.11	Pk	33.4	-29.4	11.9	-49.21	-13	-36.21	V
7.318	-69.57	Pk	35.5	-25	11.4	-47.67	-13	-34.67	V
10.901	-71.92	Pk	37.9	-20.7	10.4	-44.32	-13	-31.32	V
7.204	-69.77	Pk	35.5	-25	10.4	-48.87	-13	-35.87	H
Mid Channel, 1880MHz									
2.751	-69.33	Pk	32.7	-31.2	12.6	-55.23	-13	-42.23	H
3.86	-65.65	Pk	33.4	-29.6	11.9	-49.95	-13	-36.95	H
11.754	-72.3	Pk	38.5	-20.8	10.5	-44.1	-13	-31.1	H
2.709	-66.02	Pk	32.7	-31.1	11.3	-53.12	-13	-40.12	V
3.859	-66.38	Pk	33.5	-29.6	11.4	-51.08	-13	-38.08	V
10.901	-72.12	Pk	37.9	-20.7	10.4	-44.52	-13	-31.52	V
High Channel, 1900MHz									
3.786	-65.32	Pk	33.2	-29.7	10.8	-51.02	-13	-38.02	H
11.385	-72.67	Pk	38	-20.4	10.8	-44.27	-13	-31.27	H
3.883	-65.39	Pk	33.3	-29.4	11.4	-50.09	-13	-37.09	V
11.027	-71.53	Pk	37.9	-20.8	10.7	-43.73	-13	-30.73	V
6.348	-69.48	Pk	35.3	-26.2	10.5	-49.88	-13	-36.88	V
6.412	-68.64	Pk	35.5	-26.1	10.1	-49.14	-13	-36.14	H

Pk - Peak detector

9.2.2. LTE BAND 5

Company:	
Project #:	12607353
Date:	4/11/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 5 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 829MHz									
1.693	-67	Pk	28.7	-32.3	12.5	-58.1	-13	-45.1	H
1.709	-66.91	Pk	29.2	-32.3	13.1	-56.91	-13	-43.91	V
3.261	-67	Pk	32.9	-30.5	10.5	-54.1	-13	-41.1	V
2.48	-67.63	Pk	32.4	-31.4	11.4	-55.23	-13	-42.23	V
2.481	-67.45	Pk	32.4	-31.4	11.3	-55.15	-13	-42.15	H
3.312	-67.41	Pk	32.8	-30.3	11.5	-53.41	-13	-40.41	H
Mid Channel, 836.5MHz									
1.719	-66.62	Pk	29.3	-32.4	13.8	-55.92	-13	-42.92	V
1.761	-66.57	Pk	29.7	-32.3	12.2	-56.97	-13	-43.97	H
2.545	-67.66	Pk	32.2	-31.5	11.9	-55.06	-13	-42.06	H
2.649	-66.99	Pk	32.4	-31	11.8	-53.79	-13	-40.79	V
3.328	-67.96	Pk	32.9	-30.2	11	-54.26	-13	-41.26	V
3.414	-67.86	Pk	32.8	-30.2	11.7	-53.56	-13	-40.56	H
High Channel, 844MHz									
1.71	-66.45	Pk	29.2	-32.3	13.1	-56.45	-13	-43.45	V
1.73	-66.56	Pk	29.5	-32.4	12.4	-57.06	-13	-44.06	H
2.443	-67.88	Pk	32.3	-31.4	12.1	-54.88	-13	-41.88	V
2.462	-68.04	Pk	32.4	-31.6	12.3	-54.94	-13	-41.94	H
3.43	-68.14	Pk	32.7	-30.1	11.9	-53.64	-13	-40.64	H
3.448	-69.01	Pk	32.8	-30.2	11.6	-54.81	-13	-41.81	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/11/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 5 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 829MHz									
1.693	-66.57	Pk	28.7	-32.3	12.6	-57.57	-13	-44.57	H
1.714	-66.44	Pk	29.2	-32.3	13.1	-56.44	-13	-43.44	V
2.562	-67.22	Pk	32.3	-31.3	12.2	-54.02	-13	-41.02	H
2.633	-67.88	Pk	32.4	-31	13	-53.48	-13	-40.48	V
3.364	-67.64	Pk	32.8	-30.2	11.1	-53.94	-13	-40.94	H
3.43	-68	Pk	32.7	-30.1	12.1	-53.3	-13	-40.3	V
Mid Channel, 836.5MHz									
1.684	-65.9	Pk	28.7	-32.4	12.3	-57.3	-13	-44.3	H
1.683	-65.93	Pk	28.7	-32.3	11	-58.53	-13	-45.53	V
3.346	-69.47	Pk	32.9	-30.2	11	-55.77	-13	-42.77	V
2.545	-67.81	Pk	32.2	-31.5	11.8	-55.31	-13	-42.31	V
2.563	-66.87	Pk	32.3	-31.3	12.2	-53.67	-13	-40.67	H
3.311	-65.92	Pk	32.8	-30.3	11.4	-52.02	-13	-39.02	H
High Channel, 844MHz									
1.711	-65.93	Pk	29.2	-32.3	13.1	-55.93	-13	-42.93	V
1.729	-66.03	Pk	29.5	-32.3	12.3	-56.53	-13	-43.53	H
2.531	-67.25	Pk	32.3	-31.4	12.1	-54.25	-13	-41.25	V
2.617	-67.72	Pk	32.4	-31.1	12.5	-53.92	-13	-40.92	H
3.295	-67.29	Pk	32.9	-30.3	11.3	-53.39	-13	-40.39	H
3.33	-67.27	Pk	32.9	-30.2	11	-53.57	-13	-40.57	V

Pk - Peak detector

9.2.3. LTE BAND 7

Company:	
Project #:	12607353
Date:	5/17/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 7 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.026	-69.37	Pk	34.1	-28.7	8.5	-55.47	-25	-30.47	V
7.53	-71.3	Pk	35.7	-26.3	7.3	-54.6	-25	-29.60	V
7.533	-70.86	Pk	35.7	-26.4	7.3	-54.26	-25	-29.26	V
10.035	-72.34	Pk	37	-22.7	8	-50.04	-25	-25.04	V
10.04	-84.78	Pk	37.1	-22.8	8	-62.48	-25	-37.48	H
10.079	-72.91	Pk	37.2	-22.8	7.9	-50.61	-25	-25.61	V
Mid Channel, 2535MHz									
7.578	-56.97	Pk	35.4	-24.3	10.6	-35.27	-25	-10.27	H
7.578	-57.84	Pk	35.4	-24.3	10.9	-35.84	-25	-10.84	V
11.055	-71.84	Pk	37.9	-20.9	10.9	-43.94	-25	-18.94	V
6.591	-69.58	Pk	35.6	-25.9	10.7	-49.18	-25	-24.18	V
10.079	-72.91	Pk	36.9	-22	10.3	-47.71	-25	-22.71	V
13.75	-70.67	Pk	38.6	-21	10.9	-42.17	-25	-17.17	H
High Channel, 2560MHz									
7.653	-67.13	Pk	35.6	-24.5	10.7	-45.33	-25	-20.33	H
7.653	-59.58	Pk	35.6	-24.5	11	-37.48	-25	-12.48	V
4.437	-67.36	Pk	33.5	-29	11.6	-51.26	-25	-26.26	V
4.447	-65.84	Pk	33.5	-29.2	11.4	-50.14	-25	-25.14	H
10.079	-72.91	Pk	36.9	-22	10.3	-47.71	-25	-22.71	V
13.633	-71.32	Pk	38.7	-20.8	10.9	-42.52	-25	-17.52	H
13.663	-70.8	Pk	38.7	-20.6	10.1	-42.6	-25	-17.6	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/17/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 7 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
3.871	-65.69	Pk	33.4	-29.4	11.8	-49.89	-25	-24.89	H
10.963	-71.62	Pk	37.9	-21.1	10.4	-44.42	-25	-19.42	H
3.89	-66.24	Pk	33.4	-29.3	11.2	-50.94	-25	-25.94	V
10.922	-71.48	Pk	37.9	-20.8	11.1	-43.28	-25	-18.28	V
6.513	-69.61	Pk	35.6	-26.1	11.3	-48.81	-25	-23.81	V
6.517	-69.04	Pk	35.6	-26	10.9	-48.54	-25	-23.54	H
Mid Channel, 2535MHz									
7.578	-60.47	Pk	35.4	-24.3	10.6	-38.77	-25	-13.77	H
7.579	-57.66	Pk	35.4	-24.3	10.9	-35.66	-25	-10.66	V
5.168	-66.92	Pk	34.2	-28.5	11.6	-49.62	-25	-24.62	V
10.079	-72.91	Pk	36.9	-22	10.3	-47.71	-25	-22.71	V
16.557	-72.06	Pk	41.8	-20.2	11.1	-39.36	-25	-14.36	V
16.623	-72.27	Pk	42	-20.1	11.3	-39.07	-25	-14.07	H
High Channel, 2560MHz									
7.69	-69.99	Pk	35.5	-24.5	11.1	-47.89	-25	-22.89	H
4.855	-67.17	Pk	34.1	-28.6	11.4	-50.27	-25	-25.27	V
7.653	-57.36	Pk	35.6	-24.5	11	-35.26	-25	-10.26	V
10.079	-72.91	Pk	36.9	-22	10.3	-47.71	-25	-22.71	V
13.609	-70.68	Pk	38.7	-20.6	10.4	-42.18	-25	-17.18	V
13.63	-70.7	Pk	38.7	-20.7	11	-41.7	-25	-16.7	H

Pk - Peak detector

9.2.4. LTE BAND 12

Company:	
Project #:	12607353
Date:	4/11/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 12 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 704MHz									
1.408	-67.8	Pk	28.4	-32.5	12.8	-59.1	-13	-46.10	H
2.751	-66.88	Pk	32.3	-31.2	12.6	-53.18	-13	-40.18	H
1.395	-66.49	Pk	28.6	-32.5	12.6	-57.79	-13	-44.79	V
2.701	-66.93	Pk	32.4	-31	11.6	-53.93	-13	-40.93	V
2.137	-66.57	Pk	31.3	-31.8	13	-54.07	-13	-41.07	V
2.191	-66.13	Pk	31.4	-31.5	11.8	-54.43	-13	-41.43	H
Mid Channel, 707.5MHz									
1.412	-66.99	Pk	28.4	-32.6	11.9	-59.29	-13	-46.29	H
2.205	-66.14	Pk	31.5	-31.5	12	-54.14	-13	-41.14	H
2.802	-67.1	Pk	32.4	-31	12.3	-53.4	-13	-40.40	H
1.409	-66.26	Pk	28.4	-32.6	12.2	-58.26	-13	-45.26	V
2.749	-66.82	Pk	32.3	-31.2	11.7	-54.02	-13	-41.02	V
2.137	-66.69	Pk	31.3	-31.8	13	-54.19	-13	-41.19	V
High Channel, 711MHz									
3.816	-65.7	Pk	33.5	-29.5	11.5	-50.2	-13	-37.20	H
12.409	-72.18	Pk	39	-20.9	10.7	-43.38	-13	-30.38	H
2.13	-65.17	Pk	31.4	-31.6	13.4	-51.97	-13	-38.97	V
2.196	-68.24	Pk	31.4	-31.5	12.1	-56.24	-13	-43.24	H
3.297	-66.44	Pk	32.9	-30.4	11.3	-52.64	-13	-39.64	V
6.453	-69.41	Pk	35.5	-26	11	-48.91	-13	-35.91	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/11/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 12 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 704MHz									
1.345	-67.9	Pk	29	-32.8	12.9	-58.8	-13	-45.80	H
2.8	-67.05	Pk	32.4	-31	12.2	-53.45	-13	-40.45	H
1.407	-66.46	Pk	28.4	-32.5	12.3	-58.26	-13	-45.26	V
2.87	-67.03	Pk	32.3	-30.6	12.3	-53.03	-13	-40.03	V
2.19	-66.7	Pk	31.4	-31.5	12.5	-54.3	-13	-41.30	V
2.192	-66.88	Pk	31.4	-31.5	11.8	-55.18	-13	-42.18	H
Mid Channel, 707.5MHz									
1.343	-66.71	Pk	29	-32.8	12.9	-57.61	-13	-44.61	H
2.751	-66.79	Pk	32.3	-31.2	12.6	-53.09	-13	-40.09	H
1.394	-65.59	Pk	28.6	-32.5	12.5	-56.99	-13	-43.99	V
2.82	-66.34	Pk	32.4	-30.8	12.3	-52.44	-13	-39.44	V
2.123	-66.71	Pk	31.3	-31.7	13.1	-54.01	-13	-41.01	H
2.137	-66.36	Pk	31.3	-31.8	13	-53.86	-13	-40.86	V
High Channel, 711MHz									
3.821	-65.32	Pk	33.5	-29.5	11.5	-49.82	-13	-36.82	H
7.736	-69.74	Pk	35.8	-24.5	11.3	-47.14	-13	-34.14	H
3.889	-65.63	Pk	33.6	-29.3	11.2	-50.13	-13	-37.13	V
2.118	-65.83	Pk	31.3	-31.8	12.9	-53.43	-13	-40.43	H
2.12	-65.53	Pk	31.3	-31.8	12.5	-53.53	-13	-40.53	V
6.37	-69.71	Pk	35.6	-26.3	10.9	-49.51	-13	-36.51	V

Pk - Peak detector

9.2.5. LTE BAND 13

Project #:	12607353
Date:	4/11/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 13 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 782MHz									
3.843	-65.11	Pk	33.6	-29.6	11.1	-50.01	-13	-37.01	H
4.851	-66.83	Pk	34.1	-28.6	11.3	-50.03	-13	-37.03	H
1.574	-69.9	Pk	28.1	-32.4	12.2	-62	-40	-22	V
1.599	-69.49	Pk	28.1	-32.4	11.9	-61.89	-40	-21.89	H
2.635	-64.9	Pk	32.4	-31	13	-50.5	-13	-37.50	V
7.07	-69.35	Pk	35.6	-24.8	10.9	-47.65	-13	-34.65	V

Project #:	12607353
Date:	4/11/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 13 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 782MHz									
3.832	-64.87	Pk	33.5	-29.4	11.2	-49.57	-13	-36.57	H
4.852	-67.14	Pk	34.1	-28.6	11.3	-50.34	-13	-37.34	H
1.578	-69.75	Pk	28.1	-32.3	12.3	-61.65	-40	-21.65	V
3.835	-66.11	Pk	33.6	-29.5	11	-51.01	-13	-38.01	V
1.559	-68.71	Pk	28.1	-32.5	11.2	-61.91	-40	-21.91	H
7.073	-70.18	Pk	35.6	-24.8	11	-48.38	-13	-35.38	V

Pk - Peak detector

9.2.6. LTE BAND 17

Project #:	12607353
Date:	5/23/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 17 QPSK 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 710MHz									
1.457	-69.97	Pk	28.3	-32.5	11.4	-62.77	-13	-49.77	H
1.471	-69.15	Pk	28.3	-32.5	11.9	-61.45	-13	-48.45	V
2.126	-70.9	Pk	31.3	-31.6	12.7	-58.5	-13	-45.50	H
2.129	-69.28	Pk	31.3	-31.6	13.4	-56.18	-13	-43.18	V
2.833	-70.01	Pk	32.1	-30.7	11.9	-56.71	-13	-43.71	H
2.836	-71.86	Pk	32.1	-30.7	11.7	-58.76	-13	-45.76	V

Project #:	12607353
Date:	5/23/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 17 16QAM 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 710MHz									
1.45	-70.57	Pk	28.3	-32.5	11.7	-63.07	-13	-50.07	H
1.46	-69.23	Pk	28.3	-32.5	12.3	-61.13	-13	-48.13	V
2.004	-69.69	Pk	31.6	-31.9	11.5	-58.49	-13	-45.49	H
2.007	-69.18	Pk	31.7	-31.9	12.9	-56.48	-13	-43.48	V
2.87	-68.23	Pk	32.1	-30.6	11.7	-55.03	-13	-42.03	H
2.875	-70.38	Pk	32.2	-30.7	12.6	-56.28	-13	-43.28	V

Pk - Peak detector

9.2.7. LTE BAND 25

Company:	
Project #:	12607353
Date:	4/12/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 25 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
2.698	-66.27	Pk	32.4	-31	11.9	-52.97	-13	-39.97	H
3.812	-65.58	Pk	33.5	-29.4	11.2	-50.28	-13	-37.28	H
12.446	-71.43	Pk	39	-20.6	10.9	-42.13	-13	-29.13	H
2.174	-66.46	Pk	31.2	-31.5	12.4	-54.36	-13	-41.36	V
6.494	-68.91	Pk	35.5	-26.1	11.3	-48.21	-13	-35.21	V
13.626	-70.66	Pk	38.6	-20.9	10.9	-42.06	-13	-29.06	V
Mid Channel, 1882.5MHz									
4.189	-67.19	Pk	33.7	-29.2	11.5	-51.19	-13	-38.19	V
2.397	-67.1	Pk	32	-31.4	13	-53.5	-13	-40.50	V
2.541	-65.18	Pk	32.3	-31.4	11.8	-52.48	-13	-39.48	H
2.549	-65.55	Pk	32.3	-31.4	12.4	-52.25	-13	-39.25	H
3.43	-66.66	Pk	32.7	-30.1	12.1	-51.96	-13	-38.96	V
6.436	-69.12	Pk	35.5	-26.2	10.6	-49.22	-13	-36.22	H
High Channel, 1905MHz									
3.854	-66.72	Pk	33.6	-29.7	11.7	-51.12	-13	-38.12	H
4.852	-66.79	Pk	34.1	-28.6	11.3	-49.99	-13	-36.99	H
2.748	-66.03	Pk	32.3	-31.3	11.6	-53.43	-13	-40.43	V
3.868	-66.44	Pk	33.6	-29.4	11.4	-50.84	-13	-37.84	V
2.53	-66.03	Pk	32.3	-31.4	12.2	-52.93	-13	-39.93	H
9.3	-73.33	Pk	36.5	-23.2	11	-49.03	-13	-36.03	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/12/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 25 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
4.563	-66.4	Pk	34.2	-28.8	10.5	-50.5	-13	-37.50	H
10.672	-71.81	Pk	37.8	-21.1	10.7	-44.41	-13	-31.41	H
2.35	-66.01	Pk	31.8	-31.6	12.6	-53.21	-13	-40.21	V
3.753	-65.66	Pk	33.4	-29.6	11.6	-50.26	-13	-37.26	V
10.794	-71.7	Pk	37.9	-20.8	11.1	-43.5	-13	-30.50	V
2.977	-66.29	Pk	32.9	-30.9	11.5	-52.79	-13	-39.79	H
Mid Channel, 1882.5MHz									
2.363	-67.74	Pk	31.8	-31.5	13.1	-54.34	-13	-41.34	H
3.954	-65.98	Pk	33.6	-29.6	11.2	-50.78	-13	-37.78	H
2.827	-65.32	Pk	32.4	-30.7	12.3	-51.32	-13	-38.32	V
3.835	-65.9	Pk	33.6	-29.5	11	-50.8	-13	-37.80	V
5.869	-68.41	Pk	35.1	-27.2	11.1	-49.41	-13	-36.41	V
9.68	-71.54	Pk	36.9	-22	10.9	-45.74	-13	-32.74	H
High Channel, 1905MHz									
3.922	-65.69	Pk	33.6	-29.6	11.4	-50.29	-13	-37.29	H
2.344	-65.8	Pk	31.7	-31.6	12.9	-52.8	-13	-39.80	V
3.93	-65.58	Pk	33.6	-29.5	11.5	-49.98	-13	-36.98	V
10.868	-71.72	Pk	37.9	-20.9	11.2	-43.52	-13	-30.52	V
6.365	-68.85	Pk	35.6	-26.3	10.5	-49.05	-13	-36.05	H
7.08	-69.48	Pk	35.5	-24.8	10.7	-48.08	-13	-35.08	H

Pk - Peak detector

9.2.8. LTE BAND 26 (PART 90S)

Project #:	12607353
Date:	4/12/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 26(90s) QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 819MHz									
2.329	-66.4	Pk	31.8	-31.7	12.5	-53.8	-13	-40.80	H
1.708	-67.04	Pk	29.1	-32.2	13	-57.14	-13	-44.14	V
3.743	-65.98	Pk	33.4	-29.9	11.4	-51.08	-13	-38.08	V
3.058	-66.81	Pk	33	-30.7	12	-52.51	-13	-39.51	H
4.487	-65.71	Pk	34	-29.2	11.3	-49.61	-13	-36.61	H
7.968	-70.12	Pk	35.8	-24.3	11.4	-47.22	-13	-34.22	V

Project #:	12607353
Date:	4/12/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 26(90s) 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 819MHz									
4.86	-67.13	Pk	34.1	-28.5	11.4	-50.13	-13	-37.13	H
3.824	-65.39	Pk	33.5	-29.3	11.1	-50.09	-13	-37.09	V
2.116	-65.34	Pk	31.3	-31.8	12.7	-53.14	-13	-40.14	H
2.443	-66.47	Pk	32.3	-31.4	12	-53.57	-13	-40.57	V
8.889	-70.58	Pk	36.2	-23.6	11.2	-46.78	-13	-33.78	V
9.646	-70.95	Pk	37	-22.4	10.8	-45.55	-13	-32.55	H

Pk - Peak detector

9.2.9. LTE BAND 30

Project #:	12607353
Date:	4/12/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 30 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.555	-67.09	Pk	34.2	-28.8	10.8	-50.89	-40	-10.89	H
9.194	-71.86	Pk	36.4	-22.7	11	-47.16	-40	-7.16	H
4.624	-66.39	Pk	34.2	-29	10.4	-50.79	-40	-10.79	V
9.162	-72.53	Pk	36.4	-22.8	11.2	-47.73	-40	-7.73	V
6.797	-69.87	Pk	35.5	-25.7	10.7	-49.37	-40	-9.37	V
6.881	-71.77	Pk	35.6	-24.9	10.6	-50.47	-40	-10.47	H

Project #:	12607353
Date:	4/12/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 30 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.62	-68.03	Pk	34.2	-28.9	10.7	-52.03	-40	-12.03	H
9.159	-71.78	Pk	36.4	-22.8	11.1	-47.08	-40	-7.08	H
4.566	-67.95	Pk	34.2	-28.7	10.7	-51.75	-40	-11.75	V
9.06	-70.26	Pk	36.4	-23.5	11.2	-46.16	-40	-6.16	V
6.932	-70.21	Pk	35.6	-25.1	10.8	-48.91	-40	-8.91	H
6.999	-70.89	Pk	35.6	-25.1	11.1	-49.29	-40	-9.29	V

Pk - Peak detector

9.2.10. LTE BAND 41

Company:	
Project #:	12607353
Date:	4/12/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 41 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
5.045	-67.28	Pk	34.2	-28.5	11.1	-50.48	-25	-25.48	H
7.494	-71.99	Pk	35.6	-24.5	10.8	-50.09	-25	-25.09	H
5.109	-67.44	Pk	34.2	-28.3	11.2	-50.34	-25	-25.34	V
7.356	-70.5	Pk	35.6	-24.6	11.1	-48.4	-25	-23.40	V
10.096	-72.99	Pk	37.3	-21.9	10.6	-46.99	-25	-21.99	V
10.11	-72.07	Pk	37.3	-21.8	10.6	-45.97	-25	-20.97	H
Mid Channel, 2593MHz									
7.713	-70.91	Pk	35.8	-24.5	10.8	-48.81	-25	-23.81	H
7.73	-68.86	Pk	35.7	-24.6	11.2	-46.56	-25	-21.56	V
5.166	-67.33	Pk	34.2	-28.5	11.6	-50.03	-25	-25.03	V
5.168	-67.75	Pk	34.2	-28.5	11.6	-50.45	-25	-25.45	H
10.18	-72.73	Pk	37.3	-21.5	10.6	-46.33	-25	-21.33	V
10.3	-72.12	Pk	37.4	-21.3	10.2	-45.82	-25	-20.82	H
High Channel, 2680MHz									
5.352	-68.22	Pk	34.6	-27.9	11.1	-50.42	-25	-25.42	H
8.04	-71.61	Pk	35.9	-24.4	11.3	-48.81	-25	-23.81	H
10.793	-72.33	Pk	37.9	-20.7	10.8	-44.33	-25	-19.33	H
8.089	-70.95	Pk	35.9	-24.1	11.1	-48.05	-25	-23.05	V
10.844	-72.73	Pk	38	-20.2	10.8	-44.13	-25	-19.13	V
5.296	-68.38	Pk	34.4	-27.9	11	-50.88	-25	-25.88	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/12/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 41 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
4.978	-68.01	Pk	34	-28.5	11.1	-51.41	-25	-26.41	H
7.475	-70.61	Pk	35.7	-24.6	10.6	-48.91	-25	-23.91	H
4.864	-68.15	Pk	34.1	-28.4	11.3	-51.15	-25	-26.15	V
7.561	-72.13	Pk	35.7	-24.4	11.2	-49.63	-25	-24.63	V
9.806	-72.06	Pk	37	-22.3	11.1	-46.26	-25	-21.26	V
9.975	-73.3	Pk	37.2	-22.3	10.6	-47.8	-25	-22.80	H
Mid Channel, 2593MHz									
5.116	-68.1	Pk	34.2	-28.5	10.9	-51.5	-25	-26.50	V
7.716	-71.23	Pk	35.8	-24.5	11	-48.93	-25	-23.93	V
5.17	-67.08	Pk	34.2	-28.5	11.6	-49.78	-25	-24.78	H
7.783	-70.43	Pk	35.8	-24.4	11	-48.03	-25	-23.03	H
10.196	-71.9	Pk	37.3	-21.6	10.3	-45.9	-25	-20.90	V
10.352	-73.07	Pk	37.5	-21.2	9.9	-46.87	-25	-21.87	H
High Channel, 2680MHz									
10.671	-72.79	Pk	37.8	-21	10.7	-45.29	-25	-20.29	H
10.673	-71.73	Pk	37.8	-21.1	10.9	-44.13	-25	-19.13	V
5.22	-69.66	Pk	34.3	-28.2	11.2	-52.36	-25	-27.36	V
5.285	-69.36	Pk	34.4	-27.9	10.9	-51.96	-25	-26.96	H
8.019	-70.75	Pk	35.8	-24.1	11	-48.05	-25	-23.05	H
8.022	-70.64	Pk	35.9	-24.2	11.3	-47.64	-25	-22.64	V

Pk - Peak detector

9.2.11. LTE BAND 66

Company:	
Project #:	12607353
Date:	4/13/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 66 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.816	-65.7	Pk	33.5	-29.5	11.6	-50.1	-13	-37.10	H
3.941	-66.8	Pk	33.6	-29.4	11.4	-51.2	-13	-38.20	V
2.12	-58.61	Pk	31.3	-31.8	13.1	-46.01	-13	-33.01	H
2.12	-61.31	Pk	31.3	-31.8	12.5	-49.31	-13	-36.31	V
5.809	-67.71	Pk	35	-27.2	10.8	-49.11	-13	-36.11	H
7.813	-70.53	Pk	35.8	-24.3	11.5	-47.53	-13	-34.53	V
Mid Channel, 1745MHz									
3.826	-65.76	Pk	33.5	-29.1	11.4	-49.96	-13	-36.96	H
3.878	-65.62	Pk	33.6	-29.4	12	-49.42	-13	-36.42	V
2.145	-58.09	Pk	31.3	-31.7	12	-46.49	-13	-33.49	H
2.53	-65.41	Pk	32.3	-31.4	12.1	-52.41	-13	-39.41	V
9.658	-70.57	Pk	36.9	-22.1	10.8	-44.97	-13	-31.97	H
13.632	-70.59	Pk	38.9	-20.7	10.6	-41.79	-13	-28.79	V
High Channel, 1770MHz									
3.848	-65.65	Pk	33.6	-29.6	11.1	-50.55	-13	-37.55	H
5.09	-66.63	Pk	34.1	-28.5	10.8	-50.23	-13	-37.23	H
9.36	-70.5	Pk	36.5	-22.8	10.8	-46	-13	-33.00	H
3.875	-65.31	Pk	33.6	-29.5	12.2	-49.01	-13	-36.01	V
10.847	-72.08	Pk	37.9	-20.2	10.9	-43.48	-13	-30.48	V
2.634	-66.01	Pk	32.4	-31	13	-51.61	-13	-38.61	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/13/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 66 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.869	-65.09	Pk	33.6	-29.4	11.5	-49.39	-13	-36.39	H
3.873	-65.79	Pk	33.6	-29.5	12.1	-49.59	-13	-36.59	V
11.467	-71.52	Pk	38.2	-20.8	10.8	-43.32	-13	-30.32	V
2.12	-59.22	Pk	31.3	-31.8	13.1	-46.62	-13	-33.62	H
2.12	-60.47	Pk	31.3	-31.8	12.5	-48.47	-13	-35.47	V
7.005	-69.84	Pk	35.6	-25	10.8	-48.44	-13	-35.44	H
Mid Channel, 1745MHz									
3.858	-65.76	Pk	33.6	-29.6	12	-49.76	-13	-36.76	H
3.877	-65.04	Pk	33.6	-29.4	12.1	-48.74	-13	-35.74	V
4.743	-67.38	Pk	34.1	-28.2	10.8	-50.68	-13	-37.68	V
2.138	-58.51	Pk	31.3	-31.8	12.2	-46.81	-13	-33.81	H
2.393	-65.88	Pk	32	-31.4	13.1	-52.18	-13	-39.18	V
6.471	-69.02	Pk	35.5	-25.9	10	-49.42	-13	-36.42	H
High Channel, 1770MHz									
3.923	-66.08	Pk	33.6	-29.6	11.5	-50.58	-13	-37.58	H
3.82	-65.53	Pk	33.5	-29.5	11.3	-50.23	-13	-37.23	V
2.465	-66.88	Pk	32.4	-31.6	12	-54.08	-13	-41.08	H
5.847	-68.3	Pk	35.1	-27.4	10.8	-49.8	-13	-36.80	V
6.562	-69.52	Pk	35.5	-26	10.9	-49.12	-13	-36.12	H
9.651	-70.94	Pk	36.9	-22.3	11	-45.34	-13	-32.34	V

Pk - Peak detector

9.3. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 3

9.3.1. LTE BAND 2

Company:	
Project #:	12607353
Date:	4/17/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 2 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.877	-65.87	Pk	33.6	-29.4	11.8	-49.87	-13	-36.87	H
4.229	-66.28	Pk	33.7	-29.3	11.7	-50.18	-13	-37.18	H
5.1	-67.34	Pk	34.2	-28.4	11.3	-50.24	-13	-37.24	H
3.768	-65.37	Pk	33.4	-29.7	11.1	-50.57	-13	-37.57	V
12.514	-72.09	Pk	39.1	-20.4	10.7	-42.69	-13	-29.69	V
7.988	-70.2	Pk	35.9	-24.3	11.5	-47.1	-13	-34.10	V
Mid Channel, 1880MHz									
3.853	-66.43	Pk	33.6	-29.7	11.5	-51.03	-13	-38.03	H
3.801	-66.09	Pk	33.5	-29.6	11.4	-50.79	-13	-37.79	V
5.61	-68.01	Pk	34.9	-28.1	10.5	-50.71	-13	-37.71	H
5.613	-67.12	Pk	35	-28.1	10.8	-49.42	-13	-36.42	V
10.114	-71.24	Pk	37.3	-21.7	10.6	-45.04	-13	-32.04	V
13.668	-71.13	Pk	38.8	-20.6	10.6	-42.33	-13	-29.33	H
HighChannel, 1900MHz									
3.919	-66.13	Pk	33.6	-29.7	11.3	-50.93	-13	-37.93	H
3.788	-65.46	Pk	33.5	-29.7	11.5	-50.16	-13	-37.16	V
8.121	-70.4	Pk	35.8	-23.9	11.3	-47.2	-13	-34.20	V
11.101	-72.74	Pk	37.9	-21	11.1	-44.74	-13	-31.74	V
5.228	-68.27	Pk	34.3	-28.3	11.2	-51.07	-13	-38.07	H
8.989	-69.42	Pk	36.3	-23.7	11.2	-45.62	-13	-32.62	H

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/17/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 2 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.853	-66.33	Pk	33.6	-29.7	11.5	-50.93	-13	-37.93	H
11.111	-72.59	Pk	37.9	-21.1	10.7	-45.09	-13	-32.09	H
3.889	-66.52	Pk	33.6	-29.3	11.2	-51.02	-13	-38.02	V
2.63	-66.47	Pk	32.4	-31.1	12.8	-52.37	-13	-39.37	V
13.617	-71.01	Pk	38.6	-20.8	11.1	-42.11	-13	-29.11	H
13.668	-71.02	Pk	38.8	-20.6	10.3	-42.52	-13	-29.52	V
Mid Channel, 1880MHz									
3.887	-65.86	Pk	33.6	-29.3	11.2	-50.36	-13	-37.36	H
3.87	-66.12	Pk	33.6	-29.4	11.7	-50.22	-13	-37.22	V
3.004	-66.54	Pk	32.9	-30.7	11.8	-52.54	-13	-39.54	H
8.646	-71.03	Pk	36	-23.7	11.2	-47.53	-13	-34.53	V
13.686	-71.2	Pk	38.7	-20.9	10.9	-42.5	-13	-29.50	H
16.57	-72.01	Pk	41.7	-19.8	10.9	-39.21	-13	-26.21	V
HighChannel, 1900MHz									
4.55	-65.71	Pk	34.2	-28.9	10.8	-49.61	-13	-36.61	H
10.858	-71.61	Pk	37.9	-20.5	11.3	-42.91	-13	-29.91	V
3.206	-67.4	Pk	33	-30.7	11.8	-53.3	-13	-40.30	H
4.421	-66.05	Pk	33.9	-29.2	11.4	-49.95	-13	-36.95	V
13.6	-70.49	Pk	38.7	-20.4	10.6	-41.59	-13	-28.59	H
15.026	-71.68	Pk	39.8	-20.3	10.3	-41.88	-13	-28.88	V

Pk - Peak detector

9.3.2. LTE BAND 7

Company:	
Project #:	12607353
Date:	5/20/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 7 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
3.708	-67.3	Pk	33.2	-29.8	11.2	-52.7	-25	-27.70	H
7.729	-70.8	Pk	35.8	-24.6	11	-48.6	-25	-23.60	H
7.66	-69.92	Pk	35.7	-24.6	11.2	-47.62	-25	-22.62	V
3.792	-66.14	Pk	33.5	-29.7	11.5	-50.84	-25	-25.84	V
13.631	-71.03	Pk	38.9	-20.7	11	-41.83	-25	-16.83	H
13.636	-71.34	Pk	38.6	-20.8	10.5	-43.04	-25	-18.04	V
Mid Channel, 2535MHz									
5.101	-67.89	Pk	34.2	-28.4	11.3	-50.79	-25	-25.79	H
7.613	-71.51	Pk	35.7	-24.4	10.8	-49.41	-25	-24.41	H
5.05	-67.7	Pk	34.2	-28.5	11.2	-50.8	-25	-25.80	V
7.578	-68.32	Pk	35.7	-24.3	10.9	-46.02	-25	-21.02	V
10.079	-72.91	Pk	37.4	-22	10.3	-47.21	-25	-22.21	V
10.178	-72.35	Pk	37.3	-21.4	10.6	-45.85	-25	-20.85	H
High Channel, 2560MHz									
5.116	-67.56	Pk	34.2	-28.5	11.1	-50.76	-25	-25.76	H
7.681	-70.49	Pk	35.8	-24.5	11.2	-47.99	-25	-22.99	H
5.102	-65.85	Pk	34.2	-28.4	11.4	-48.65	-25	-23.65	V
7.648	-70.92	Pk	35.7	-24.5	11.1	-48.62	-25	-23.62	V
10.114	-72.29	Pk	37.3	-21.7	10.6	-46.09	-25	-21.09	V
10.215	-72.47	Pk	37.4	-21.5	9.7	-46.87	-25	-21.87	H

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/20/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 7 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
4.973	-67.89	Pk	34	-28.5	11.1	-51.29	-25	-26.29	H
7.596	-71.51	Pk	35.7	-24.4	10.5	-49.71	-25	-24.71	H
4.994	-68.43	Pk	34.1	-28.4	10.9	-51.83	-25	-26.83	V
7.512	-71.35	Pk	35.6	-24.5	10.9	-49.35	-25	-24.35	V
10.062	-72.88	Pk	37.2	-22.1	10.1	-47.68	-25	-22.68	H
10.077	-72.82	Pk	37.4	-22	10.4	-47.02	-25	-22.02	V
Mid Channel, 2535MHz									
5.098	-68.68	Pk	34.2	-28.5	11.3	-51.68	-25	-26.68	H
7.578	-62.89	Pk	35.7	-24.3	10.6	-40.89	-25	-15.89	H
7.578	-67.49	Pk	35.7	-24.3	10.9	-45.19	-25	-20.19	V
5.17	-68.15	Pk	34.2	-28.5	11.5	-50.95	-25	-25.95	V
10.18	-72.25	Pk	37.3	-21.4	10.7	-45.65	-25	-20.65	V
10.229	-72.6	Pk	37.4	-21.6	10	-46.8	-25	-21.80	H
Mid Channel, 2560MHz									
5.115	-67.77	Pk	34.2	-28.5	11.2	-50.87	-25	-25.87	H
7.749	-69.97	Pk	35.8	-24.3	11.2	-47.27	-25	-22.27	H
5.118	-67.51	Pk	34.2	-28.5	10.9	-50.91	-25	-25.91	V
7.647	-70.89	Pk	35.7	-24.5	11.1	-48.59	-25	-23.59	V
10.283	-72.5	Pk	37.4	-21.5	10.3	-46.3	-25	-21.30	V
10.3	-72.59	Pk	37.4	-21.3	10.2	-46.29	-25	-21.29	H

Pk - Peak detector

9.3.3. LTE BAND 25

Company:	
Project #:	12607353
Date:	4/18/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 25 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.938	-66.18	Pk	33.6	-29.4	11.5	-50.48	-13	-37.48	H
7.702	-70.04	Pk	35.8	-24.6	10.9	-47.94	-13	-34.94	H
10.878	-71.87	Pk	37.9	-20.9	10.5	-44.37	-13	-31.37	H
3.808	-66.12	Pk	33.5	-29.4	11.1	-50.92	-13	-37.92	V
6.323	-68.4	Pk	35.6	-26.3	10.9	-48.2	-13	-35.20	V
13.614	-71.24	Pk	38.9	-20.7	10.6	-42.44	-13	-29.44	V
Mid Channel, 1882.5MHz									
3.871	-65.56	Pk	33.6	-29.5	11.8	-49.66	-13	-36.66	H
10.672	-72.62	Pk	37.8	-21.1	10.7	-45.22	-13	-32.22	H
3.86	-66.9	Pk	33.5	-29.6	11.4	-51.6	-13	-38.60	V
6.271	-69.7	Pk	35.7	-26.4	10.9	-49.5	-13	-36.50	H
6.457	-69.28	Pk	35.5	-26	10.9	-48.88	-13	-35.88	V
9.84	-71.22	Pk	37.1	-22	10.8	-45.32	-13	-32.32	V
High Channel, 1905MHz									
3.877	-65.66	Pk	33.6	-29.4	11.8	-49.66	-13	-36.66	H
3.876	-66.32	Pk	33.6	-29.5	12.2	-50.02	-13	-37.02	V
6.455	-69.27	Pk	35.5	-26	10.8	-48.97	-13	-35.97	H
6.456	-69.41	Pk	35.5	-26	10.7	-49.21	-13	-36.21	H
9.665	-70.59	Pk	36.9	-22.1	11	-44.79	-13	-31.79	V
14.295	-76.04	Pk	39	-20.4	11.2	-46.24	-13	-33.24	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/18/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 25 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.927	-66.2	Pk	33.6	-29.6	11.5	-50.7	-13	-37.70	H
4.854	-67.3	Pk	34.1	-28.6	11.4	-50.4	-13	-37.40	H
3.926	-65.64	Pk	33.6	-29.6	11.5	-50.14	-13	-37.14	V
3.143	-66.38	Pk	32.9	-30.5	11.4	-52.58	-13	-39.58	V
6.167	-69.61	Pk	35.7	-26.9	10.5	-50.31	-13	-37.31	H
13.596	-71.22	Pk	39	-20.3	10.2	-42.32	-13	-29.32	V
Mid Channel, 1882.5MHz									
3.874	-65.85	Pk	33.6	-29.5	12	-49.75	-13	-36.75	H
2.56	-66.15	Pk	32.3	-31.4	12	-53.25	-13	-40.25	H
2.991	-67.28	Pk	32.8	-30.8	11.9	-53.38	-13	-40.38	V
5.879	-67.82	Pk	35.2	-27.1	11.2	-48.52	-13	-35.52	V
7.07	-70.32	Pk	35.6	-24.8	10.9	-48.62	-13	-35.62	V
13.668	-70.58	Pk	38.7	-20.6	10.6	-41.88	-13	-28.88	H
High Channel, 1905MHz									
3.94	-65.86	Pk	33.6	-29.4	11.6	-50.06	-13	-37.06	H
10.877	-71.96	Pk	37.9	-20.9	10.6	-44.36	-13	-31.36	H
3.877	-65.88	Pk	33.6	-29.4	12	-49.68	-13	-36.68	V
9.096	-71.61	Pk	36.4	-23.4	11.1	-47.51	-13	-34.51	V
5.878	-68.09	Pk	35.1	-27.2	11.2	-48.99	-13	-35.99	V
6.323	-68.7	Pk	35.6	-26.3	10.7	-48.7	-13	-35.70	H

Pk - Peak detector

9.3.4. LTE BAND 30

Project #:	12607353
Date:	4/14/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 30 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.539	-66.94	Pk	34.1	-29	11.2	-50.64	-40	-10.64	H
9.177	-72.02	Pk	36.4	-22.9	11	-47.52	-40	-7.52	H
9.09	-71.31	Pk	36.4	-23.5	11.2	-47.21	-40	-7.21	V
4.433	-67.31	Pk	33.9	-29.2	11.6	-51.01	-40	-11.01	V
7	-70.43	Pk	35.6	-25.1	10.5	-49.43	-40	-9.43	H
7.002	-71.05	Pk	35.6	-25.1	11.2	-49.35	-40	-9.35	V

Project #:	12607353
Date:	4/14/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 30 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.582	-67.79	Pk	34.2	-29	10.4	-52.19	-40	-12.19	H
9.159	-71.44	Pk	36.4	-22.8	11.1	-46.74	-40	-6.74	H
9.042	-71.03	Pk	36.4	-23.7	11.2	-47.13	-40	-7.13	V
4.485	-66.37	Pk	34	-29.2	11.6	-49.97	-40	-9.97	V
6.932	-71.7	Pk	35.6	-25.1	10.8	-50.4	-40	-10.4	H
7.001	-71.09	Pk	35.6	-25.1	11.2	-49.39	-40	-9.39	V

Pk - Peak detector

9.3.5. LTE BAND 41

Company:	
Project #:	12607353
Date:	4/15/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 41 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
5.03	-67.73	Pk	34.1	-28.8	10.8	-51.63	-25	-26.63	H
7.597	-70.5	Pk	35.7	-24.4	10.5	-48.7	-25	-23.70	H
4.994	-63.91	Pk	34.1	-28.4	10.9	-47.31	-25	-22.31	V
7.495	-70.49	Pk	35.7	-24.5	11	-48.29	-25	-23.29	V
9.874	-72.5	Pk	37.1	-22.1	10.9	-46.6	-25	-21.60	V
9.924	-72.31	Pk	37.1	-22.3	10.9	-46.61	-25	-21.61	H
Mid Channel, 2593MHz									
7.749	-70.15	Pk	35.8	-24.3	11.2	-47.45	-25	-22.45	V
5.164	-67.65	Pk	34.2	-28.5	11.6	-50.35	-25	-25.35	H
5.168	-60.68	Pk	34.2	-28.5	11.6	-43.38	-25	-18.38	V
7.818	-71.74	Pk	35.8	-24.4	11	-49.34	-25	-24.34	H
10.318	-72.01	Pk	37.5	-21.3	10	-45.81	-25	-20.81	V
10.435	-72.68	Pk	37.6	-21.6	9.8	-46.88	-25	-21.88	H
High Channel, 2680MHz									
5.383	-69.23	Pk	34.6	-28	10.7	-51.93	-25	-26.93	H
8.055	-70.73	Pk	35.9	-24.1	11.3	-47.63	-25	-22.63	H
10.792	-72.66	Pk	37.9	-20.7	10.8	-44.66	-25	-19.66	H
5.352	-67.73	Pk	34.6	-27.9	11	-50.03	-25	-25.03	V
8.054	-69.93	Pk	35.9	-24.1	11.4	-46.73	-25	-21.73	V
10.791	-71.86	Pk	37.9	-20.7	11.2	-43.46	-25	-18.46	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/15/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 41 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
5.045	-66.98	Pk	34.2	-28.5	11.1	-50.18	-25	-25.18	H
7.494	-71.21	Pk	35.6	-24.5	10.8	-49.31	-25	-24.31	H
4.994	-64.59	Pk	34.1	-28.4	10.9	-47.99	-25	-22.99	V
7.492	-71.03	Pk	35.6	-24.5	11	-48.93	-25	-23.93	V
10.044	-72.63	Pk	37.3	-22.1	10.4	-47.03	-25	-22.03	H
10.111	-72.88	Pk	37.3	-21.8	10.7	-46.68	-25	-21.68	V
Mid Channel, 2593MHz									
5.1	-66.94	Pk	34.2	-28.4	11.3	-49.84	-25	-24.84	H
7.75	-69.99	Pk	35.8	-24.3	11.2	-47.29	-25	-22.29	V
5.168	-64.31	Pk	34.2	-28.5	11.6	-47.01	-25	-22.01	V
7.818	-71.01	Pk	35.8	-24.4	11	-48.61	-25	-23.61	H
10.315	-72.75	Pk	37.5	-21.3	9.8	-46.75	-25	-21.75	H
10.383	-72.63	Pk	37.5	-21.2	10.1	-46.23	-25	-21.23	V
High Channel, 2680MHz									
8.071	-71.65	Pk	35.8	-24	11.1	-48.75	-25	-23.75	H
10.723	-72.5	Pk	37.9	-21.2	10.4	-45.4	-25	-20.40	H
10.689	-71.57	Pk	37.8	-21.3	10.9	-44.17	-25	-19.17	V
5.183	-66.93	Pk	34.3	-28.5	11.1	-50.03	-25	-25.03	V
5.296	-69.65	Pk	34.4	-27.9	11	-52.15	-25	-27.15	H
8.021	-71.06	Pk	35.9	-24.1	11.3	-47.96	-25	-22.96	V

Pk - Peak detector

9.3.6. LTE BAND 48

Company:	
Project #:	12607353
Date:	5/21/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 48 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
10.843	-75.65	Pk	38	-20.2	10.3	-47.55	-40	-7.55	H
7.103	-72.01	Pk	35.6	-25.3	10	-51.71	-40	-11.71	H
7.103	-70.35	Pk	35.6	-25.3	10.3	-49.75	-40	-9.75	V
9.67	-73.08	Pk	36.9	-21.9	11	-47.08	-40	-7.08	V
13.597	-74.15	Pk	38.9	-20.3	10.6	-44.95	-40	-4.95	H
13.597	-73.96	Pk	38.9	-20.3	10.2	-45.16	-40	-5.16	V
Mid Channel, 3625MHz									
12.342	-72.27	Pk	39	-21	10.7	-43.57	-40	-3.57	H
10.604	-73.19	Pk	37.8	-21	10.9	-45.49	-40	-5.49	V
12.486	-72.41	Pk	39.1	-20.2	10.6	-42.91	-40	-2.91	V
6.254	-68.75	Pk	35.7	-26.4	11.2	-48.25	-40	-8.25	H
6.257	-69.44	Pk	35.7	-26.4	11.4	-48.74	-40	-8.74	V
8.859	-70.77	Pk	36.2	-23.7	11	-47.27	-40	-7.27	H
High Channel, 3690MHz									
7.371	-73.58	Pk	35.6	-24.7	11.1	-51.58	-40	-11.58	H
11.05	-75.32	Pk	37.9	-20.9	10.6	-47.72	-40	-7.72	H
7.355	-73.56	Pk	35.6	-24.7	11	-51.66	-40	-11.66	V
11.109	-76.39	Pk	37.9	-21	11	-48.49	-40	-8.49	V
14.722	-75.8	Pk	40	-20.3	10.5	-45.6	-40	-5.6	V
14.75	-76.44	Pk	39.9	-20.4	10.1	-46.84	-40	-6.84	H

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/21/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 48 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
8.14	-72.37	Pk	35.8	-24	11	-49.57	-40	-9.57	H
11.336	-73.82	Pk	38.1	-20.3	10.8	-45.22	-40	-5.22	H
8.072	-71.71	Pk	35.8	-24	11.4	-48.51	-40	-8.51	V
10.86	-74.58	Pk	37.9	-20.5	11.2	-45.98	-40	-5.98	V
6.321	-71.69	Pk	35.6	-26.3	10.9	-51.49	-40	-11.49	H
6.389	-71	Pk	35.6	-26.1	10.6	-50.9	-40	-10.9	V
Mid Channel, 3625MHz									
12.526	-73.89	Pk	39.1	-20.7	10.6	-44.89	-40	-4.89	H
12.526	-75.41	Pk	39.1	-20.7	10.5	-46.51	-40	-6.51	V
6.321	-72.49	Pk	35.6	-26.3	10.9	-52.29	-40	-12.29	V
6.389	-70.95	Pk	35.6	-26.1	10.6	-50.85	-40	-10.85	V
9.619	-73.5	Pk	36.9	-22.4	10.9	-48.1	-40	-8.1	V
9.67	-73.05	Pk	36.9	-21.9	10.9	-47.15	-40	-7.15	H
High Channel, 3690MHz									
7.384	-75.64	Pk	35.6	-24.5	10.9	-53.64	-40	-13.64	H
11.055	-75.19	Pk	37.9	-20.9	10.6	-47.59	-40	-7.59	H
7.366	-75.59	Pk	35.6	-24.6	11.3	-53.29	-40	-13.29	V
11.048	-75.56	Pk	37.9	-20.9	11	-47.56	-40	-7.56	V
14.744	-75.85	Pk	39.9	-20.2	10.1	-46.05	-40	-6.05	H
14.744	-75.3	Pk	39.9	-20.2	10	-45.6	-40	-5.6	V

Pk - Peak detector

9.3.7. LTE BAND 66

Company:	
Project #:	12607353
Date:	4/13/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 66 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
5.096	-67.61	Pk	34.2	-28.5	11.2	-50.71	-13	-37.71	H
4.996	-68.75	Pk	34.1	-28.4	10.8	-52.25	-13	-39.25	V
3.375	-67.34	Pk	32.8	-30.2	11.4	-53.34	-13	-40.34	H
3.375	-67.74	Pk	32.8	-30.2	12	-53.14	-13	-40.14	V
6.949	-70.41	Pk	35.6	-24.9	10.4	-49.31	-13	-36.31	H
6.951	-71.11	Pk	35.6	-24.9	10.8	-49.61	-13	-36.61	V
Mid Channel, 1745MHz									
3.529	-67.49	Pk	33	-30.2	10.9	-53.79	-13	-40.79	H
3.613	-66.59	Pk	33.1	-29.7	11	-52.19	-13	-39.19	V
5.215	-67.48	Pk	34.3	-28.2	11.3	-50.08	-13	-37.08	H
5.218	-68.51	Pk	34.3	-28.2	11.2	-51.21	-13	-38.21	V
6.932	-70.4	Pk	35.6	-25.1	11.2	-48.7	-13	-35.70	V
7.016	-70.76	Pk	35.6	-25	10.3	-49.86	-13	-36.86	H
High Channel, 1770MHz									
3.635	-67.13	Pk	33.1	-29.5	10.9	-52.63	-13	-39.63	H
3.721	-66.39	Pk	33.3	-30	11.3	-51.79	-13	-38.79	V
5.284	-69.01	Pk	34.4	-27.9	11	-51.51	-13	-38.51	V
5.302	-69.03	Pk	34.4	-27.8	10.9	-51.53	-13	-38.53	H
7.016	-70.65	Pk	35.6	-25	10.3	-49.75	-13	-36.75	H
7.069	-70.21	Pk	35.6	-24.8	10.9	-48.51	-13	-35.51	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	4/13/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 66 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
5.096	-67.61	Pk	34.2	-28.5	11.2	-50.71	-13	-37.71	H
4.996	-68.75	Pk	34.1	-28.4	10.8	-52.25	-13	-39.25	V
3.375	-67.34	Pk	32.8	-30.2	11.4	-53.34	-13	-40.34	H
3.375	-67.74	Pk	32.8	-30.2	12	-53.14	-13	-40.14	V
6.949	-70.41	Pk	35.6	-24.9	10.4	-49.31	-13	-36.31	H
6.951	-71.11	Pk	35.6	-24.9	10.8	-49.61	-13	-36.61	V
Mid Channel, 1745MHz									
3.529	-67.49	Pk	33	-30.2	10.9	-53.79	-13	-40.79	H
3.613	-66.59	Pk	33.1	-29.7	11	-52.19	-13	-39.19	V
5.215	-67.48	Pk	34.3	-28.2	11.3	-50.08	-13	-37.08	H
5.218	-68.51	Pk	34.3	-28.2	11.2	-51.21	-13	-38.21	V
6.932	-70.4	Pk	35.6	-25.1	11.2	-48.7	-13	-35.70	V
7.016	-70.76	Pk	35.6	-25	10.3	-49.86	-13	-36.86	H
High Channel, 1770MHz									
3.635	-67.13	Pk	33.1	-29.5	10.9	-52.63	-13	-39.63	H
3.721	-66.39	Pk	33.3	-30	11.3	-51.79	-13	-38.79	V
5.284	-69.01	Pk	34.4	-27.9	11	-51.51	-13	-38.51	V
5.302	-69.03	Pk	34.4	-27.8	10.9	-51.53	-13	-38.53	H
7.016	-70.65	Pk	35.6	-25	10.3	-49.75	-13	-36.75	H
7.069	-70.21	Pk	35.6	-24.8	10.9	-48.51	-13	-35.51	V

Pk - Peak detector

9.4. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 4

9.4.1. LTE BAND 2

Company:	
Project #:	12607353
Date:	5/15/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 2 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.88	-65.81	Pk	33.4	-29.4	11.4	-50.41	-13	-37.41	H
7.629	-69.88	Pk	35.6	-24.4	10.7	-47.98	-13	-34.98	H
9.116	-70.78	Pk	36.2	-23.2	11	-46.78	-13	-33.78	H
3.869	-66.39	Pk	33.4	-29.4	11.6	-50.79	-13	-37.79	V
4.365	-66.77	Pk	33.6	-28.5	11.2	-50.47	-13	-37.47	V
10.368	-71.97	Pk	37.6	-21.2	10.4	-45.17	-13	-32.17	V
Mid Channel, 1880MHz									
3.639	-65.76	Pk	33.1	-29.6	11	-51.26	-13	-38.26	H
7.257	-69	Pk	35.5	-25	10.6	-47.9	-13	-34.90	H
3.874	-65.92	Pk	33.4	-29.5	12.2	-49.82	-13	-36.82	V
7.267	-70.29	Pk	35.6	-25	11	-48.69	-13	-35.69	V
5.583	-66.5	Pk	34.9	-28.1	10.7	-49	-13	-36.00	H
5.831	-69.08	Pk	34.8	-27.2	10.9	-50.58	-13	-37.58	V
HighChannel, 1900MHz									
3.715	-66.24	Pk	32.8	-29.9	10.8	-52.54	-13	-39.54	H
3.628	-67.14	Pk	33.1	-29.7	11.3	-52.44	-13	-39.44	V
5.658	-68.56	Pk	34.9	-27.9	10.8	-50.76	-13	-37.76	H
6.386	-69.4	Pk	35.4	-26.2	10.7	-49.5	-13	-36.50	H
6.495	-69.45	Pk	35.6	-26.1	11.3	-48.65	-13	-35.65	V
9.693	-70.78	Pk	36.9	-22.2	11	-45.08	-13	-32.08	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/15/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 2 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
4.851	-66.76	Pk	34.1	-28.6	11.2	-50.06	-13	-37.06	H
7.476	-70.24	Pk	35.6	-24.6	10.6	-48.64	-13	-35.64	H
15.575	-71.22	Pk	40.5	-20.7	11.1	-40.32	-13	-27.32	H
3.927	-66.02	Pk	33.4	-29.6	11.5	-50.72	-13	-37.72	V
5.061	-66.32	Pk	34.2	-28.8	11	-49.92	-13	-36.92	V
5.068	-66.05	Pk	34.1	-28.7	10.7	-49.95	-13	-36.95	V
Mid Channel, 1880MHz									
4.363	-66.27	Pk	33.6	-28.5	11.2	-49.97	-13	-36.97	H
11.219	-72.24	Pk	38	-21	11	-44.24	-13	-31.24	V
2.636	-66.09	Pk	32.8	-31	12.9	-51.39	-13	-38.39	V
3.413	-66.73	Pk	32.8	-30.2	11.7	-52.43	-13	-39.43	H
5.169	-67.03	Pk	34.2	-28.5	11.6	-49.73	-13	-36.73	V
13.674	-71.04	Pk	38.7	-20.6	11	-41.94	-13	-28.94	H
HighChannel, 1900MHz									
3.876	-65.02	Pk	33.4	-29.5	12	-49.12	-13	-36.12	H
11.712	-72.25	Pk	38.5	-21	10.7	-44.05	-13	-31.05	H
3.819	-65.59	Pk	33.4	-29.5	11.4	-50.29	-13	-37.29	V
7.683	-70.83	Pk	35.6	-24.5	11.4	-48.33	-13	-35.33	V
12.427	-72.6	Pk	38.9	-20.7	10.5	-43.9	-13	-30.90	V
6.463	-69.57	Pk	35.6	-25.8	10.5	-49.27	-13	-36.27	H

Pk - Peak detector

9.4.2. LTE BAND 7

Company:	
Project #:	12607353
Date:	5/19/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 7 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
7.694	-70.03	Pk	35.6	-24.5	11.1	-47.83	-25	-22.83	H
3.815	-66.51	Pk	33.4	-29.5	11.2	-51.41	-25	-26.41	V
7.603	-70.72	Pk	35.5	-24.4	11.1	-48.52	-25	-23.52	V
10.079	-72.91	Pk	36.9	-22	10.3	-47.71	-25	-22.71	V
14.22	-72.15	Pk	39	-20.7	11.3	-42.55	-25	-17.55	H
14.223	-71.16	Pk	39	-20.8	11.1	-41.86	-25	-16.86	V
Mid Channel, 2535MHz									
3.929	-66.18	Pk	33.4	-29.6	11.5	-50.88	-25	-25.88	H
10.972	-71.53	Pk	37.9	-21	10.7	-43.93	-25	-18.93	H
3.874	-66.16	Pk	33.4	-29.5	12.2	-50.06	-25	-25.06	V
10.848	-72.19	Pk	38	-20.2	10.9	-43.49	-25	-18.49	V
6.512	-69.37	Pk	35.6	-26.1	11.3	-48.57	-25	-23.57	V
6.514	-69.11	Pk	35.6	-26.1	10.9	-48.71	-25	-23.71	H
High Channel, 2560MHz									
3.867	-66.09	Pk	33.4	-29.4	11.4	-50.69	-25	-25.69	H
3.827	-65.2	Pk	33.4	-29.1	11.1	-49.8	-25	-24.80	V
6.423	-68.68	Pk	35.5	-26.1	10.3	-48.98	-25	-23.98	H
6.493	-69.62	Pk	35.6	-26.1	11.3	-48.82	-25	-23.82	V
9.761	-71.27	Pk	36.9	-22.7	10.9	-46.17	-25	-21.17	V
9.875	-71.4	Pk	36.9	-22.1	10.7	-45.9	-25	-20.90	H

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/19/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 7 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
3.816	-66.67	Pk	33.4	-29.5	11.6	-51.17	-25	-26.17	H
3.868	-65.61	Pk	33.4	-29.4	11.5	-50.11	-25	-25.11	V
6.503	-69.87	Pk	35.6	-26	11.4	-48.87	-25	-23.87	V
6.505	-69.04	Pk	35.6	-26	10.9	-48.54	-25	-23.54	H
10.079	-72.91	Pk	36.9	-22	10.3	-47.71	-25	-22.71	V
12.707	-72.65	Pk	38.9	-21.1	10.8	-44.05	-25	-19.05	H
Mid Channel, 2535MHz									
3.842	-66	Pk	33.4	-29.6	11.1	-51.1	-25	-26.10	H
11.589	-72.08	Pk	38.3	-20.9	11	-43.68	-25	-18.68	H
3.858	-66.34	Pk	33.5	-29.6	11.4	-51.04	-25	-26.04	V
11.675	-72.27	Pk	38.5	-20.9	10.7	-43.97	-25	-18.97	V
7.057	-70.18	Pk	35.5	-25	10.6	-49.08	-25	-24.08	H
7.232	-69.14	Pk	35.6	-25.1	11.1	-47.54	-25	-22.54	V
Mid Channel, 2560MHz									
3.877	-65.7	Pk	33.4	-29.4	11.8	-49.9	-25	-24.90	H
3.879	-75.08	Av	33.4	-29.4	11.9	-59.18	-25	-34.18	V
6.519	-69.5	Pk	35.6	-25.9	10.8	-49	-25	-24.00	H
6.541	-69.77	Pk	35.7	-26	10.7	-49.37	-25	-24.37	V
9.697	-71.34	Pk	36.8	-22.4	10.9	-46.04	-25	-21.04	V
9.748	-71.64	Pk	36.9	-22.5	10.8	-46.44	-25	-21.44	H

Pk - Peak detector

9.4.3. LTE BAND 25

Company:	
Project #:	12607353
Date:	5/16/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 25 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
8.356	-70.04	Pk	35.8	-24.2	11.4	-47.04	-13	-34.04	H
3.882	-66.66	Pk	33.4	-29.4	11.6	-51.06	-13	-38.06	V
3.05	-66.28	Pk	33	-30.7	12	-51.98	-13	-38.98	H
6.375	-68.34	Pk	35.4	-26.3	11.1	-48.14	-13	-35.14	V
10.595	-71.49	Pk	37.8	-21.1	10.7	-44.09	-13	-31.09	V
13.619	-71.32	Pk	38.7	-20.8	11.2	-42.22	-13	-29.22	H
Mid Channel, 1882.5MHz									
4.841	-67.59	Pk	34.2	-28.7	10.9	-51.19	-13	-38.19	V
11.046	-71.33	Pk	37.9	-21	11	-43.43	-13	-30.43	V
4.428	-66.57	Pk	33.5	-29.2	11.6	-50.67	-13	-37.67	H
6.492	-69.48	Pk	35.6	-26.1	10.7	-49.28	-13	-36.28	H
8.715	-70.81	Pk	35.8	-23.6	11.3	-47.31	-13	-34.31	V
13.625	-71	Pk	38.7	-20.9	11.2	-42	-13	-29.00	H
High Channel, 1905MHz									
4.84	-67.29	Pk	34.2	-28.7	10.8	-50.99	-13	-37.99	V
11.966	-71.98	Pk	38.8	-21	10.5	-43.68	-13	-30.68	V
2.473	-68.05	Pk	32.7	-31.5	11.8	-55.05	-13	-42.05	H
6.211	-69.37	Pk	35.3	-26.5	10.7	-49.87	-13	-36.87	H
7.953	-69.63	Pk	35.7	-24.1	11.1	-46.93	-13	-33.93	V
13.605	-70.29	Pk	38.7	-20.5	10.7	-41.39	-13	-28.39	H

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/16/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 25 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Height (cm)	Polarity
Low Channel, 1860MHz									
5.148	-67.48	Pk	34.2	-28.6	11	-50.88	-13	-37.88	H
10.913	-72.31	Pk	37.9	-20.6	10.8	-44.21	-13	-31.21	V
5.51	-68.87	Pk	34.6	-28.1	11.1	-51.27	-13	-38.27	V
9.667	-71.66	Pk	36.8	-22	10.9	-45.96	-13	-32.96	H
13.853	-71.97	Pk	38.6	-21	11	-43.37	-13	-30.37	H
14.333	-71.51	Pk	39.3	-20.2	10.9	-41.51	-13	-28.51	V
Mid Channel, 1882.5MHz									
15.627	-70.95	Pk	40.4	-20.5	11.1	-39.95	-13	-26.95	H
2.926	-67.07	Pk	32.5	-30.7	11.9	-53.37	-13	-40.37	V
5.941	-68.07	Pk	35	-27.2	10.9	-49.37	-13	-36.37	H
7.247	-70.17	Pk	35.5	-24.9	11.2	-48.37	-13	-35.37	V
9.818	-70.32	Pk	37	-22.3	10.8	-44.82	-13	-31.82	H
14.304	-71.65	Pk	39.3	-20.3	11.1	-41.55	-13	-28.55	V
High Channel, 1905MHz									
3.879	-66.35	Pk	33.4	-29.4	11.7	-50.65	-13	-37.65	H
4.858	-67.34	Pk	34.1	-28.6	11.4	-50.44	-13	-37.44	H
3.876	-65.94	Pk	33.4	-29.5	12.2	-49.84	-13	-36.84	V
5.088	-67.02	Pk	34.2	-28.5	11.2	-50.12	-13	-37.12	V
7.801	-70.66	Pk	35.6	-24.4	11.4	-48.06	-13	-35.06	H
13.606	-70.22	Pk	38.7	-20.5	10.3	-41.72	-13	-28.72	V

Pk - Peak detector

9.4.4. LTE BAND 30

Project #:	12607353
Date:	5/21/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 30 QPSK 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
9.194	-71.5	Pk	36.1	-22.7	11	-47.1	-40	-7.10	V
4.44	-67	Pk	33.5	-29	11.6	-50.9	-40	-10.90	H
4.44	-66.66	Pk	33.5	-29	11.5	-50.66	-40	-10.66	V
6.931	-70.03	Pk	35.6	-25.1	10.7	-48.83	-40	-8.83	H
6.94	-70.38	Pk	35.6	-25	11.4	-48.38	-40	-8.38	V
9.212	-72.11	Pk	36.1	-22.9	11	-47.91	-40	-7.91	H

Project #:	12607353
Date:	5/21/2019
Test Engineer:	39006
Configuration:	EUT Only
Mode:	LTE 30 16QAM 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.57	-68.34	Pk	33.9	-28.7	10.3	-52.84	-40	-12.84	H
4.561	-68.32	Pk	33.9	-28.8	10.7	-52.52	-40	-12.52	V
6.501	-71.98	Pk	35.6	-26	10.9	-51.48	-40	-11.48	H
6.517	-71.78	Pk	35.6	-26	11.3	-50.88	-40	-10.88	V
9.29	-71.85	Pk	36.3	-23.2	11	-47.75	-40	-7.75	H
9.293	-73.79	Pk	36.3	-23.2	11	-49.69	-40	-9.69	V

Pk - Peak detector

9.4.5. LTE BAND 41

Company:	
Project #:	12607353
Date:	5/20/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 41 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
7.491	-63.99	Pk	35.7	-24.6	10.8	-42.09	-25	-17.09	H
3.884	-66.13	Pk	33.4	-29.4	11.3	-50.83	-25	-25.83	V
7.491	-59.17	Pk	35.7	-24.6	11	-37.07	-25	-12.07	V
11.071	-71.95	Pk	37.9	-20.9	10.6	-44.35	-25	-19.35	V
3.426	-67.67	Pk	32.8	-30.1	12.1	-52.87	-25	-27.87	H
14.526	-71.3	Pk	39.8	-21.2	11	-41.7	-25	-16.70	H
Mid Channel, 2593MHz									
10.925	-71.99	Pk	37.9	-20.9	11.1	-43.89	-25	-18.89	V
5.172	-67.91	Pk	34.2	-28.5	11.6	-50.61	-25	-25.61	H
5.765	-69.51	Pk	34.7	-27.5	10.5	-51.81	-25	-26.81	V
7.752	-63.75	Pk	35.7	-24.4	11.1	-41.35	-25	-16.35	H
7.752	-59.79	Pk	35.7	-24.4	11.2	-37.29	-25	-12.29	V
13.676	-70.83	Pk	38.7	-20.7	11	-41.83	-25	-16.83	H
High Channel, 2680MHz									
3.874	-66.45	Pk	33.4	-29.5	12	-50.55	-25	-25.55	H
3.805	-66.21	Pk	33.4	-29.4	11.4	-50.81	-25	-25.81	V
7.959	-70.2	Pk	35.7	-24.2	11.1	-47.6	-25	-22.6	V
9.663	-71.27	Pk	36.8	-22.2	10.9	-45.77	-25	-20.77	H
13.626	-71.17	Pk	38.8	-20.9	11.2	-42.07	-25	-17.07	H
13.627	-70.69	Pk	38.7	-20.9	10.8	-42.09	-25	-17.09	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/20/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 41 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
3.877	-65.46	Pk	33.4	-29.4	11.9	-49.56	-25	-24.56	H
4.856	-67.78	Pk	34.1	-28.6	11.4	-50.88	-25	-25.88	H
3.869	-65.32	Pk	33.4	-29.4	11.5	-49.82	-25	-24.82	V
7.491	-58.94	Pk	35.7	-24.6	11	-36.84	-25	-11.84	V
6.623	-68.79	Pk	35.6	-26.2	10.6	-48.79	-25	-23.79	H
9.671	-70.73	Pk	36.8	-21.9	11	-44.83	-25	-19.83	V
Mid Channel, 2593MHz									
3.864	-66.19	Pk	33.4	-29.5	11.5	-50.79	-25	-25.79	H
5.052	-67.74	Pk	34.1	-28.5	11.2	-50.94	-25	-25.94	V
5.841	-69	Pk	34.9	-27.3	10.5	-50.9	-25	-25.90	H
7.752	-64.76	Pk	35.7	-24.4	11.1	-42.36	-25	-17.36	H
7.752	-60.43	Pk	35.7	-24.4	11.2	-37.93	-25	-12.93	V
9.763	-71.58	Pk	36.9	-22.7	10.9	-46.48	-25	-21.48	V
High Channel, 2680MHz									
3.88	-66.66	Pk	33.4	-29.4	11.5	-51.16	-25	-26.16	H
4.31	-67.01	Pk	33.5	-28.8	11.6	-50.71	-25	-25.71	V
10.849	-72.41	Pk	38	-20.2	11	-43.61	-25	-18.61	V
5.293	-68.33	Pk	34.4	-27.9	11.2	-50.63	-25	-25.63	V
6.196	-70.14	Pk	35.3	-26.7	11	-50.54	-25	-25.54	H
14.51	-71.68	Pk	39.8	-21.1	10.7	-42.28	-25	-17.28	H

Pk - Peak detector

9.4.6. LTE BAND 48

Company:	
Project #:	12607353
Date:	5/21/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 48 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
10.66	-76.89	Pk	38	-21	10.5	-49.39	-40	-9.39	H
10.639	-76.26	Pk	37.9	-21.2	10.3	-49.26	-40	-9.26	V
7.122	-73	Pk	35.6	-25.2	10.8	-51.8	-40	-11.8	V
7.124	-73.88	Pk	35.6	-25.2	10.7	-52.78	-40	-12.78	H
14.228	-73.81	Pk	39.1	-20.7	11.1	-44.31	-40	-4.31	H
14.246	-75.12	Pk	39.1	-20.5	10.8	-45.72	-40	-5.72	V
Mid Channel, 3625MHz									
10.86	-75.34	Pk	37.9	-20.5	10.9	-47.04	-40	-7.04	H
14.492	-75.8	Pk	39.7	-20.8	10.8	-46.1	-40	-6.1	H
10.845	-75.7	Pk	38	-20.2	10.8	-47.1	-40	-7.1	V
14.5	-75.07	Pk	39.8	-20.9	10.3	-45.87	-40	-5.87	V
7.206	-74	Pk	35.5	-25.1	10.8	-52.8	-40	-12.8	V
7.23	-73.73	Pk	35.6	-25.1	10.6	-52.63	-40	-12.63	H
High Channel, 3690MHz									
7.378	-75.6	Pk	35.6	-24.4	10.9	-53.5	-40	-13.5	H
11.051	-74.92	Pk	37.9	-20.9	10.6	-47.32	-40	-7.32	H
7.38	-75.25	Pk	35.6	-24.4	11.3	-52.75	-40	-12.75	V
11.034	-75.95	Pk	37.9	-21	10.8	-48.25	-40	-8.25	V
14.719	-75.5	Pk	40	-20.3	10.5	-45.3	-40	-5.3	V
14.749	-76.33	Pk	39.9	-20.3	10.1	-46.63	-40	-6.63	H

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/21/2019
Test Engineer:	12501
Configuration:	EUT Only
Mode:	LTE 48 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
10.664	-76.11	Pk	37.9	-21.1	10.5	-48.81	-40	-8.81	H
10.644	-76.12	Pk	37.9	-21.2	10.4	-49.02	-40	-9.02	V
7.098	-74.6	Pk	35.5	-25.3	10.3	-54.1	-40	-14.1	V
7.12	-74.1	Pk	35.6	-25.2	10.5	-53.2	-40	-13.2	H
14.203	-76.31	Pk	39	-21.1	11.2	-47.21	-40	-7.21	V
14.227	-75.27	Pk	39.1	-20.7	11.1	-45.77	-40	-5.77	H
Mid Channel, 3625MHz									
10.868	-76.34	Pk	38	-20.8	10.8	-48.34	-40	-8.34	H
14.499	-74.32	Pk	39.8	-20.9	10.5	-44.92	-40	-4.92	H
10.786	-75.51	Pk	37.9	-20.5	11.2	-46.91	-40	-6.91	V
7.172	-73.83	Pk	35.5	-25.1	10.7	-52.73	-40	-12.73	V
7.226	-73.49	Pk	35.5	-25.1	10.4	-52.69	-40	-12.69	H
14.424	-75.67	Pk	39.6	-20.6	10.6	-46.07	-40	-6.07	V
High Channel, 3690MHz									
7.379	-75.72	Pk	35.6	-24.4	10.9	-53.62	-40	-13.62	H
11.056	-75.71	Pk	37.9	-21	10.6	-48.21	-40	-8.21	H
7.348	-74.67	Pk	35.6	-24.8	11.1	-52.77	-40	-12.77	V
11.035	-75.88	Pk	37.9	-21	10.9	-48.08	-40	-8.08	V
14.745	-76.34	Pk	39.9	-20.2	10	-46.64	-40	-6.64	V
14.75	-76.15	Pk	39.9	-20.4	10.1	-46.55	-40	-6.55	H

Pk - Peak detector

9.4.7. LTE BAND 66

Company:	
Project #:	12607353
Date:	5/20/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 66 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.722	-65.17	Pk	32.8	-30	11.3	-51.07	-13	-38.07	H
4.862	-67.09	Pk	34.1	-28.4	11.3	-50.09	-13	-37.09	H
11.525	-71.98	Pk	38.2	-20.9	10.9	-43.78	-13	-30.78	H
4.865	-66.74	Pk	34	-28.4	11.1	-50.04	-13	-37.04	V
10.673	-72.12	Pk	37.9	-21.1	10.9	-44.42	-13	-31.42	V
5.156	-67.85	Pk	34.2	-28.6	11.3	-50.95	-13	-37.95	V
Mid Channel, 1745MHz									
3.768	-65.5	Pk	33.1	-29.7	11.4	-50.7	-13	-37.70	H
15.606	-71.1	Pk	40.5	-20.6	10.9	-40.3	-13	-27.30	H
4.851	-66.24	Pk	34.1	-28.6	11.3	-49.44	-13	-36.44	V
8.032	-70.01	Pk	35.7	-24.3	11.4	-47.21	-13	-34.21	V
3.368	-66.66	Pk	32.8	-30.1	11.6	-52.36	-13	-39.36	V
6.381	-68.39	Pk	35.3	-26.3	11	-48.39	-13	-35.39	H
High Channel, 1770MHz									
3.899	-65.53	Pk	33.4	-29.4	11.1	-50.43	-13	-37.43	H
3.873	-65.82	Pk	33.4	-29.5	12.1	-49.82	-13	-36.82	V
4.854	-67.12	Pk	34.1	-28.6	11.4	-50.22	-13	-37.22	V
6.259	-69.39	Pk	35.4	-26.5	11.1	-49.39	-13	-36.39	H
9.689	-70.37	Pk	36.9	-22.1	11.1	-44.47	-13	-31.47	V
13.637	-70.66	Pk	38.7	-20.8	10.8	-41.96	-13	-28.96	H

Pk - Peak detector

Company:	
Project #:	12607353
Date:	5/20/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 66 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.872	-66.13	Pk	33.4	-29.5	11.9	-50.33	-13	-37.33	H
5.068	-66.96	Pk	34.1	-28.7	10.7	-50.86	-13	-37.86	H
10.853	-72.29	Pk	37.9	-20.3	10.7	-43.99	-13	-30.99	H
3.921	-65.9	Pk	33.4	-29.6	11.3	-50.8	-13	-37.80	V
5.1	-67.44	Pk	34.2	-28.4	11.4	-50.24	-13	-37.24	V
13.603	-70.86	Pk	38.7	-20.5	10.3	-42.36	-13	-29.36	V
Mid Channel, 1745MHz									
3.81	-65.38	Pk	33.4	-29.5	11.2	-50.28	-13	-37.28	H
11.933	-71.73	Pk	38.7	-21	10.6	-43.43	-13	-30.43	H
4.324	-66.68	Pk	33.5	-28.7	11.1	-50.78	-13	-37.78	V
4.856	-66.95	Pk	34.1	-28.6	11.4	-50.05	-13	-37.05	V
6.371	-69.05	Pk	35.4	-26.3	10.9	-49.05	-13	-36.05	V
6.502	-68.85	Pk	35.6	-26	10.9	-48.35	-13	-35.35	H
High Channel, 1770MHz									
3.831	-66.01	Pk	33.4	-29.4	11.3	-50.71	-13	-37.71	H
3.875	-65.75	Pk	33.4	-29.5	12.2	-49.65	-13	-36.65	V
8.204	-70.37	Pk	35.7	-24	11.1	-47.57	-13	-34.57	V
12.516	-72.71	Pk	38.9	-20.4	10.6	-43.61	-13	-30.61	V
5.946	-68.32	Pk	35.1	-27.1	10.8	-49.52	-13	-36.52	H
14.31	-71.04	Pk	39.3	-20.2	11.1	-40.84	-13	-27.84	H

Pk - Peak detector

9.5. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 6

9.5.1. LTE BAND 48

Company:	
Project #:	12607353
Date:	6/28/2019
Test Engineer:	52277
Configuration:	EUT Only
Mode:	LTE 48 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.252	-73.79	Pk	35.9	-24.1	10.7	-51.29	-25	-26.29	H
10.877	-75.79	Pk	37.9	-19.4	10.6	-46.69	-25	-21.69	H
7.251	-74.42	Pk	35.9	-24.1	11.3	-51.32	-25	-26.32	V
10.877	-76.95	Pk	37.9	-19.4	10.9	-47.55	-25	-22.55	V
14.506	-72.94	Pk	39.4	-19.7	10.5	-42.74	-25	-17.74	H
14.507	-74.96	Pk	39.4	-19.7	10.5	-44.76	-25	-19.76	V
Mid Channel, 3625MHz									
7.384	-74.91	Pk	35.8	-23.5	10.9	-51.71	-25	-26.71	H
11.073	-75	Pk	37.9	-19.9	10.4	-46.6	-25	-21.6	H
7.383	-75.14	Pk	35.8	-23.5	11.3	-51.54	-25	-26.54	V
11.071	-75.06	Pk	37.9	-19.9	10.6	-46.46	-25	-21.46	V
14.787	-76.09	Pk	39.7	-18.6	10.9	-44.09	-25	-19.09	V
14.789	-75.52	Pk	39.7	-18.7	10.9	-43.62	-25	-18.62	H
High Channel, 3690MHz									
7.36	-74.07	Pk	35.6	-24.6	10.8	-52.27	-40	-12.27	H
11.067	-75.85	Pk	37.9	-20.9	10.5	-48.35	-40	-8.35	H
7.368	-74.04	Pk	35.6	-24.6	11.4	-51.64	-40	-11.64	V
11.068	-76.4	Pk	37.9	-20.9	10.7	-48.7	-40	-8.7	V
14.757	-76.32	Pk	39.9	-20.3	10.3	-46.42	-40	-6.42	H
14.758	-74.16	Pk	39.9	-20.3	10.2	-44.36	-40	-4.36	V

Pk - Peak detector

Company:	
Project #:	12607353
Date:	6/28/2019
Test Engineer:	52277
Configuration:	EUT Only
Mode:	LTE 48 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.251	-71.93	Pk	35.9	-24.1	10.7	-49.43	-25	-24.43	H
10.867	-75.17	Pk	38	-19.6	10.9	-45.87	-25	-20.87	H
7.25	-73.87	Pk	35.9	-24.1	11.2	-50.87	-25	-25.87	V
10.869	-76.08	Pk	37.9	-19.5	11.1	-46.58	-25	-21.58	V
14.507	-74.34	Pk	39.4	-19.7	10.5	-44.14	-25	-19.14	V
14.509	-73.18	Pk	39.4	-19.7	10.7	-42.78	-25	-17.78	H
Mid Channel, 3625MHz									
7.384	-75.44	Pk	35.8	-23.5	10.9	-52.24	-25	-27.24	H
11.068	-74.93	Pk	37.9	-19.8	10.5	-46.33	-25	-21.33	H
7.383	-74.47	Pk	35.8	-23.5	11.3	-50.87	-25	-25.87	V
11.068	-75.82	Pk	37.9	-19.8	10.7	-47.02	-25	-22.02	V
14.758	-75.64	Pk	39.7	-18.7	10.2	-44.44	-25	-19.44	V
14.76	-75.65	Pk	39.7	-18.7	10.3	-44.35	-25	-19.35	H
High Channel, 3690MHz									
7.395	-74.74	Pk	35.5	-24.7	10.6	-53.34	-40	-13.34	H
11.073	-76.41	Pk	37.9	-20.9	10.4	-49.01	-40	-9.01	H
7.389	-75.64	Pk	35.5	-24.7	10.9	-53.94	-40	-13.94	V
11.074	-76	Pk	37.9	-20.9	10.5	-48.5	-40	-8.5	V
14.764	-75.67	Pk	39.9	-20.5	10.5	-45.77	-40	-5.77	H
14.769	-73.49	Pk	40	-20.3	10.4	-43.39	-40	-3.39	V

Pk - Peak detector

10. SETUP PHOTOS

Please see setup photo report 12607353-EP1V1

END OF REPORT