



## Appendix A. Test Results of Conducted Test

### LTE Band 2

#### Conducted Output Power(Average power)

| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                    | 1       | 0         | QPSK   | 22.99  | 22.81  | 22.69   |
| 1.4                                    | 1       | 2         |        | 23.27  | 23.02  | 22.80   |
| 1.4                                    | 1       | 5         |        | 23.18  | 22.86  | 22.58   |
| 1.4                                    | 3       | 0         |        | 23.21  | 22.82  | 22.88   |
| 1.4                                    | 3       | 1         |        | 23.25  | 23.12  | 22.94   |
| 1.4                                    | 3       | 2         |        | 23.08  | 22.95  | 22.71   |
| 1.4                                    | 6       | 0         |        | 22.52  | 22.37  | 22.32   |
| 1.4                                    | 1       | 0         | 16-QAM | 22.75  | 22.68  | 22.57   |
| 1.4                                    | 1       | 2         |        | 22.78  | 22.63  | 22.51   |
| 1.4                                    | 1       | 5         |        | 22.76  | 22.19  | 22.50   |
| 1.4                                    | 3       | 0         |        | 22.46  | 22.51  | 22.46   |
| 1.4                                    | 3       | 1         |        | 22.61  | 22.62  | 22.45   |
| 1.4                                    | 3       | 2         |        | 22.62  | 22.39  | 22.40   |
| 1.4                                    | 6       | 0         |        | 21.55  | 21.33  | 21.09   |
| 3                                      | 1       | 0         | QPSK   | 23.13  | 22.90  | 22.81   |
| 3                                      | 1       | 7         |        | 23.18  | 22.94  | 22.66   |
| 3                                      | 1       | 14        |        | 23.15  | 22.89  | 22.57   |
| 3                                      | 8       | 0         |        | 22.47  | 22.34  | 22.27   |
| 3                                      | 8       | 4         |        | 22.54  | 22.36  | 22.28   |
| 3                                      | 8       | 7         |        | 22.59  | 22.38  | 22.24   |
| 3                                      | 15      | 0         |        | 22.62  | 22.34  | 22.20   |
| 3                                      | 1       | 0         | 16-QAM | 22.69  | 22.70  | 22.69   |
| 3                                      | 1       | 7         |        | 22.76  | 22.65  | 22.51   |
| 3                                      | 1       | 14        |        | 22.68  | 22.61  | 22.61   |
| 3                                      | 8       | 0         |        | 21.49  | 21.46  | 21.28   |
| 3                                      | 8       | 4         |        | 21.37  | 21.44  | 21.25   |
| 3                                      | 8       | 7         |        | 21.42  | 21.51  | 21.31   |
| 3                                      | 15      | 0         |        | 21.45  | 21.29  | 21.01   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                      | 1       | 0         | QPSK   | 23.11  | 22.69  | 22.90   |
| 5                                      | 1       | 12        |        | 23.18  | 22.80  | 22.82   |
| 5                                      | 1       | 24        |        | 23.17  | 22.81  | 22.52   |
| 5                                      | 12      | 0         |        | 22.41  | 22.33  | 22.24   |
| 5                                      | 12      | 6         |        | 22.40  | 22.27  | 22.21   |
| 5                                      | 12      | 11        |        | 22.59  | 22.37  | 22.25   |
| 5                                      | 25      | 0         |        | 22.57  | 22.41  | 22.19   |
| 5                                      | 1       | 0         | 16-QAM | 22.85  | 22.66  | 22.59   |
| 5                                      | 1       | 12        |        | 22.72  | 22.56  | 22.47   |
| 5                                      | 1       | 24        |        | 22.87  | 22.52  | 22.52   |
| 5                                      | 12      | 0         |        | 21.49  | 21.32  | 21.13   |
| 5                                      | 12      | 6         |        | 21.49  | 21.39  | 21.20   |
| 5                                      | 12      | 11        |        | 21.58  | 21.33  | 21.07   |
| 5                                      | 25      | 0         |        | 21.56  | 21.27  | 21.09   |
| 10                                     | 1       | 0         | QPSK   | 23.29  | 23.06  | 22.80   |
| 10                                     | 1       | 24        |        | 23.21  | 22.66  | 22.85   |
| 10                                     | 1       | 49        |        | 23.07  | 22.95  | 22.59   |
| 10                                     | 25      | 0         |        | 22.50  | 22.36  | 22.42   |
| 10                                     | 25      | 12        |        | 22.61  | 22.35  | 22.35   |
| 10                                     | 25      | 24        |        | 22.63  | 22.34  | 22.20   |
| 10                                     | 50      | 0         |        | 22.61  | 22.33  | 22.26   |
| 10                                     | 1       | 0         | 16-QAM | 22.90  | 22.71  | 22.62   |
| 10                                     | 1       | 24        |        | 22.82  | 22.55  | 22.56   |
| 10                                     | 1       | 49        |        | 22.88  | 22.54  | 22.54   |
| 10                                     | 25      | 0         |        | 21.57  | 21.36  | 21.29   |
| 10                                     | 25      | 12        |        | 21.73  | 21.35  | 21.51   |
| 10                                     | 25      | 24        |        | 21.63  | 21.33  | 21.20   |
| 10                                     | 50      | 0         |        | 21.50  | 21.21  | 21.13   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                     | 1       | 0         | QPSK   | 23.19  | 22.95  | 22.99   |
| 15                                     | 1       | 37        |        | 23.04  | 22.79  | 22.82   |
| 15                                     | 1       | 74        |        | 22.84  | 22.90  | 22.77   |
| 15                                     | 36      | 0         |        | 22.64  | 22.36  | 22.27   |
| 15                                     | 36      | 18        |        | 22.57  | 22.32  | 22.31   |
| 15                                     | 36      | 37        |        | 22.51  | 22.29  | 22.36   |
| 15                                     | 75      | 0         |        | 22.48  | 22.39  | 22.32   |
| 15                                     | 1       | 0         | 16-QAM | 22.85  | 22.80  | 22.77   |
| 15                                     | 1       | 37        |        | 22.80  | 22.70  | 22.56   |
| 15                                     | 1       | 74        |        | 22.74  | 22.60  | 22.54   |
| 15                                     | 36      | 0         |        | 21.63  | 21.28  | 21.26   |
| 15                                     | 36      | 18        |        | 21.57  | 21.18  | 21.29   |
| 15                                     | 36      | 37        |        | 21.54  | 21.27  | 21.37   |
| 15                                     | 75      | 0         |        | 21.59  | 21.29  | 21.21   |
| 20                                     | 1       | 0         | QPSK   | 23.47  | 23.18  | 23.05   |
| 20                                     | 1       | 49        |        | 23.25  | 22.92  | 22.94   |
| 20                                     | 1       | 99        |        | 22.87  | 22.68  | 22.80   |
| 20                                     | 50      | 0         |        | 22.75  | 22.41  | 22.39   |
| 20                                     | 50      | 24        |        | 22.61  | 22.38  | 22.43   |
| 20                                     | 50      | 49        |        | 22.48  | 22.35  | 22.28   |
| 20                                     | 100     | 0         |        | 22.59  | 22.41  | 22.41   |
| 20                                     | 1       | 0         | 16-QAM | 22.40  | 22.61  | 22.81   |
| 20                                     | 1       | 49        |        | 22.84  | 22.63  | 22.90   |
| 20                                     | 1       | 99        |        | 22.22  | 22.47  | 22.62   |
| 20                                     | 50      | 0         |        | 21.66  | 21.36  | 21.38   |
| 20                                     | 50      | 24        |        | 21.53  | 21.27  | 21.31   |
| 20                                     | 50      | 49        |        | 21.43  | 21.29  | 21.27   |
| 20                                     | 100     | 0         |        | 21.61  | 21.42  | 21.39   |

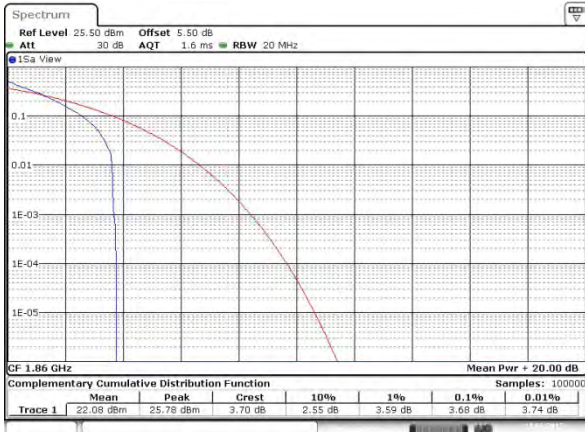
**Peak-to-Average Ratio**

| Mode       | LTE Band 2 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 3.68               | 4.55    | 4.61  | 5.74    | <b>PASS</b> |
| Middle CH  | 3.25               | 4.70    | 3.91  | 5.71    |             |
| Highest CH | 4.17               | 4.81    | 4.75  | 5.80    |             |

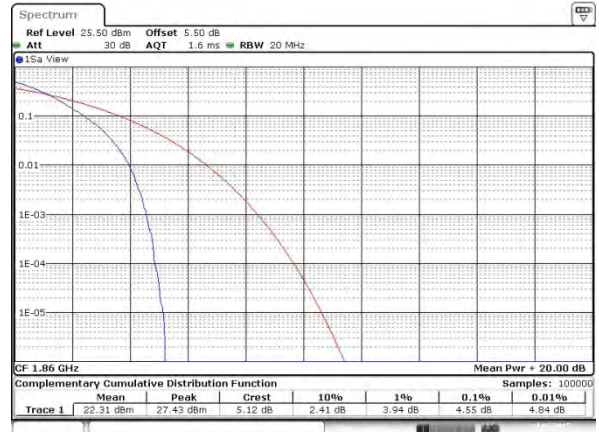


## LTE Band 2 / 20MHz / QPSK

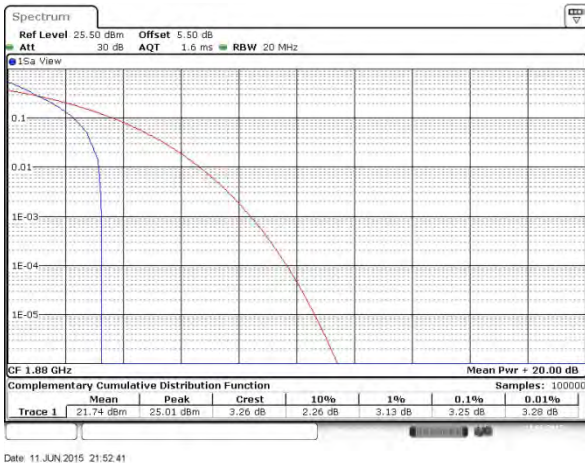
## Lowest Channel / 1RB



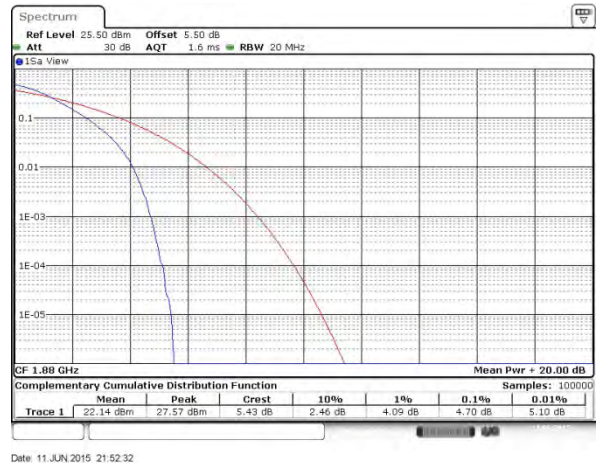
## Lowest Channel / Full RB



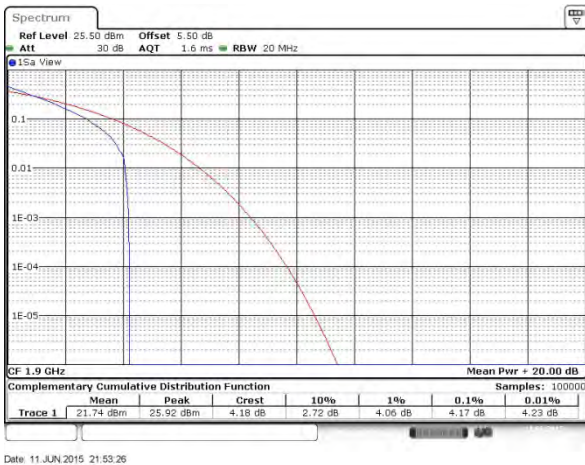
## Middle Channel / 1RB



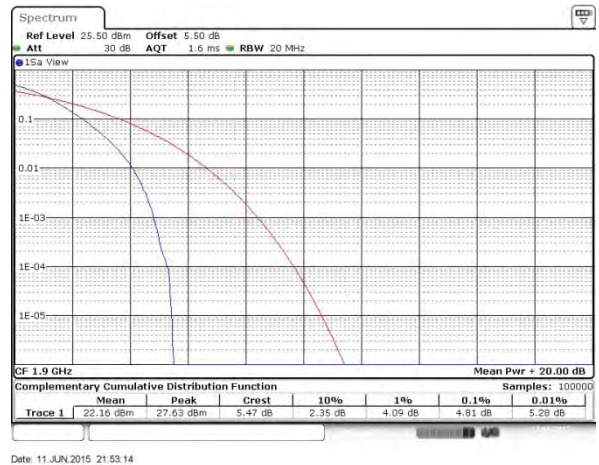
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB





## LTE Band 2 / 20MHz / 16QAM

## Lowest Channel / 1RB



## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



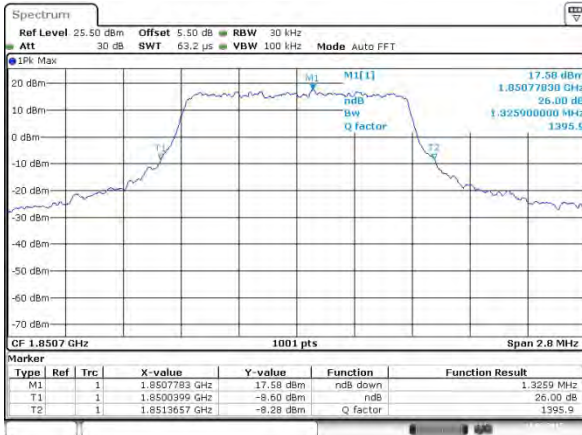
**26dB Bandwidth**

| Mode       | LTE Band 2 : 26dB BW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.33                      | 1.33  | 3.05 | 3.05  | 5.05 | 5.02  | 9.95  | 9.99  | 14.60 | 14.63 | 20.38 | 20.26 |
| Middle CH  | 1.33                      | 1.31  | 3.03 | 3.05  | 5.05 | 5.04  | 10.07 | 9.97  | 14.75 | 14.63 | 20.22 | 20.26 |
| Highest CH | 1.35                      | 1.32  | 3.05 | 3.05  | 5.06 | 5.02  | 10.01 | 9.93  | 14.63 | 14.63 | 20.50 | 20.50 |



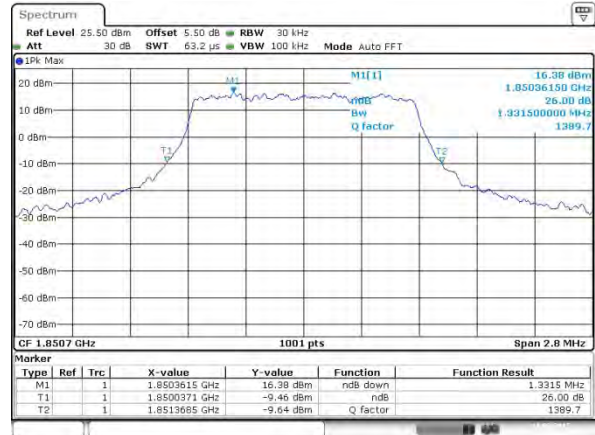
## LTE Band 2

## Lowest Channel / 1.4MHz / QPSK



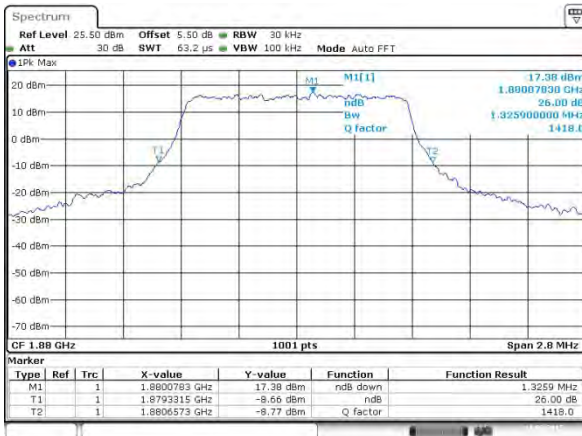
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## Lowest Channel / 1.4MHz / 16QAM



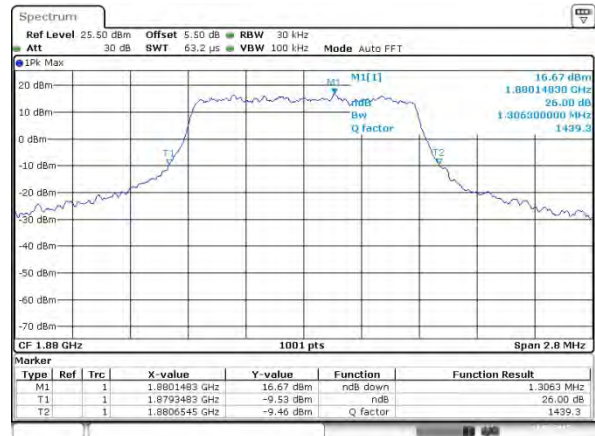
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## Middle Channel / 1.4MHz / QPSK



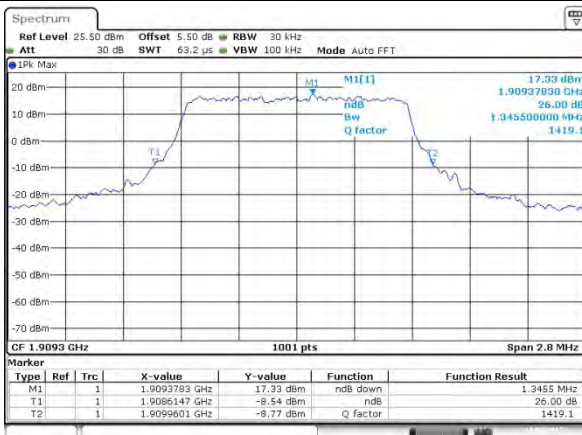
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## Middle Channel / 1.4MHz / 16QAM



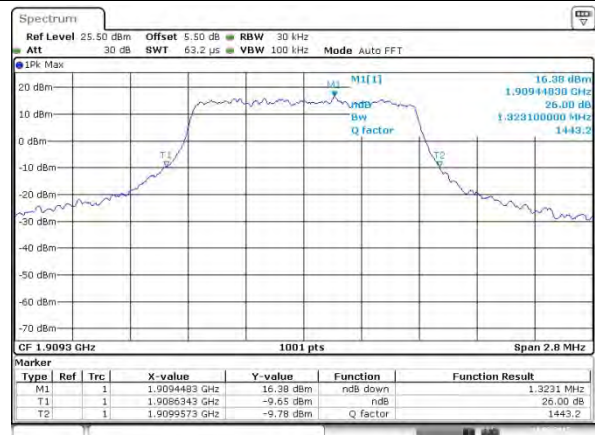
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## Highest Channel / 1.4MHz / QPSK



Date: 11 JUN 2015 20:41:23

## Highest Channel / 1.4MHz / 16QAM

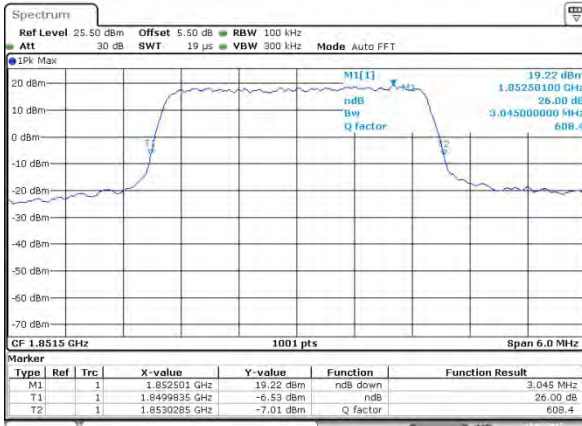


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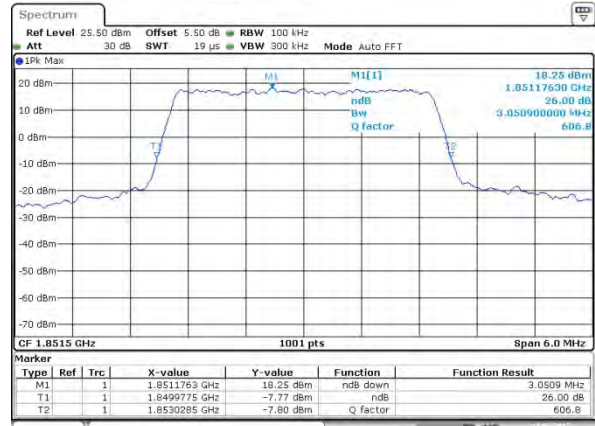


## LTE Band 2

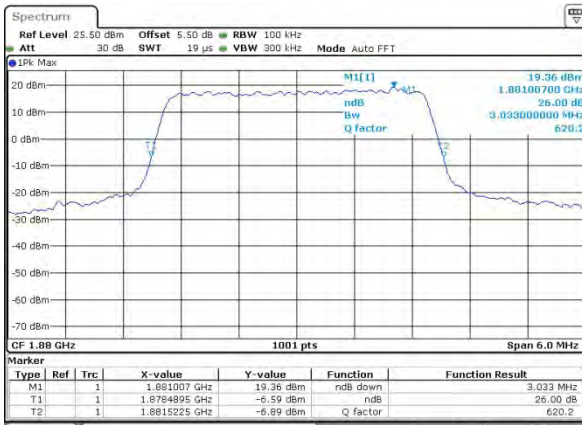
## Lowest Channel / 3MHz / QPSK



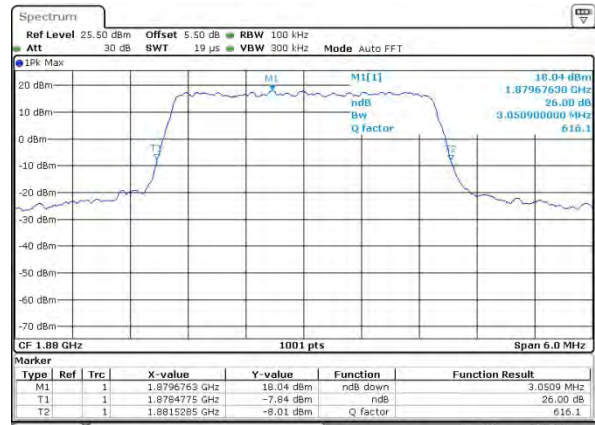
## Lowest Channel / 3MHz / 16QAM



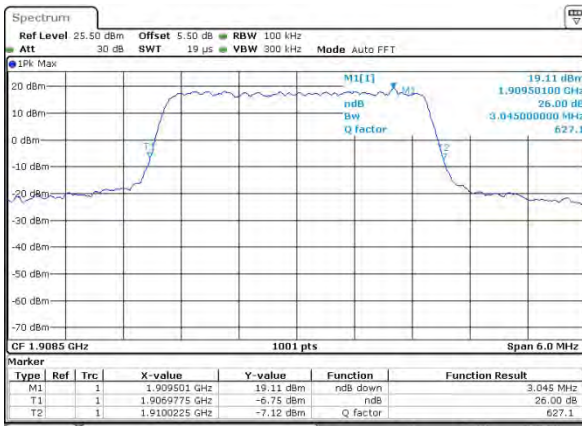
## Middle Channel / 3MHz / QPSK



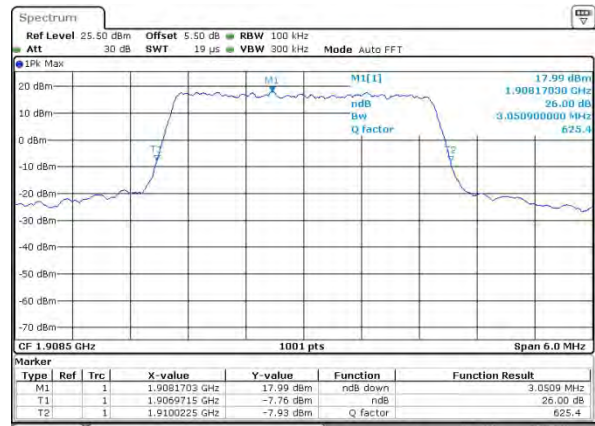
## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



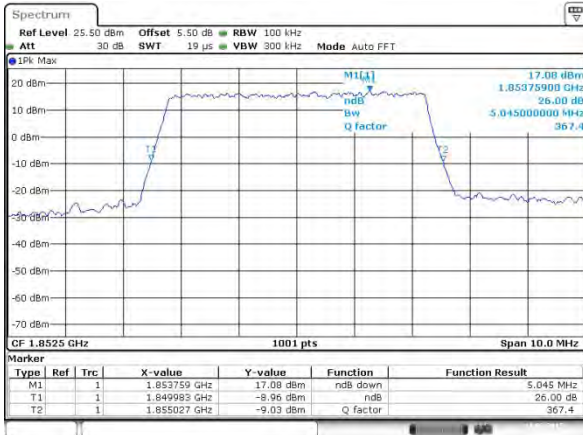
## Highest Channel / 3MHz / 16QAM



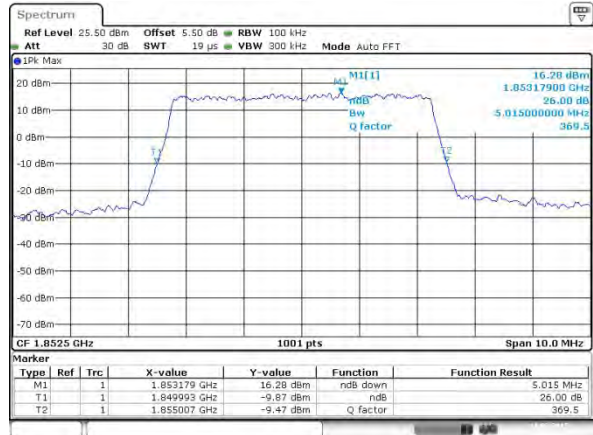


## LTE Band 2

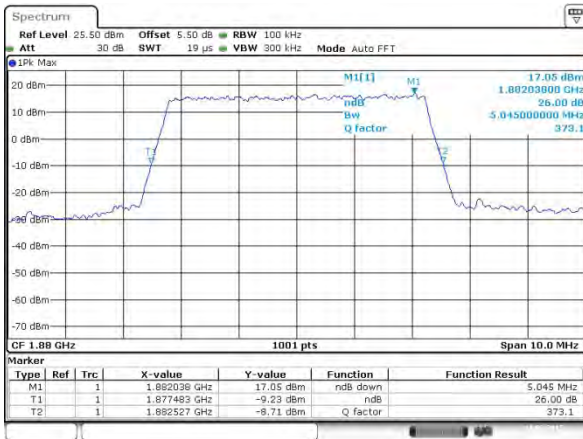
## Lowest Channel / 5MHz / QPSK



## Lowest Channel / 5MHz / 16QAM



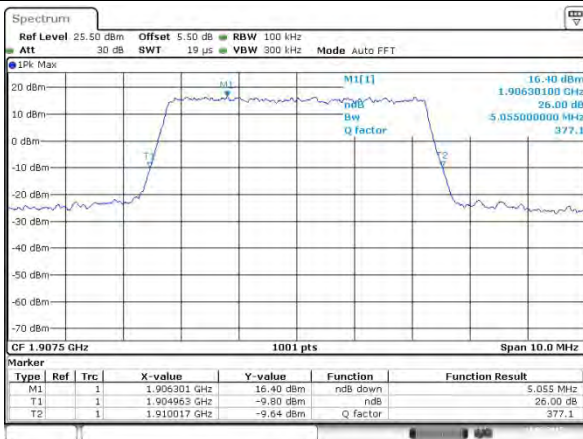
## Middle Channel / 5MHz / QPSK



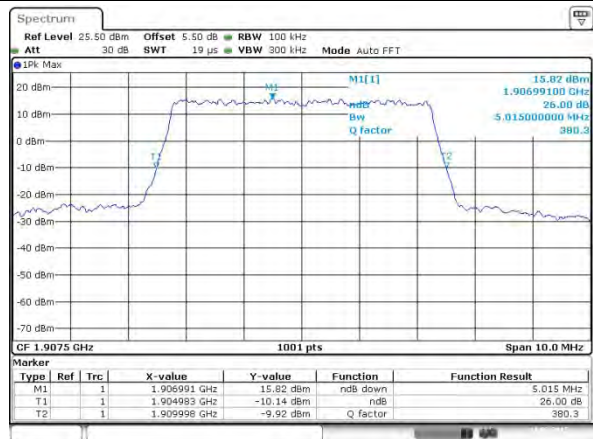
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



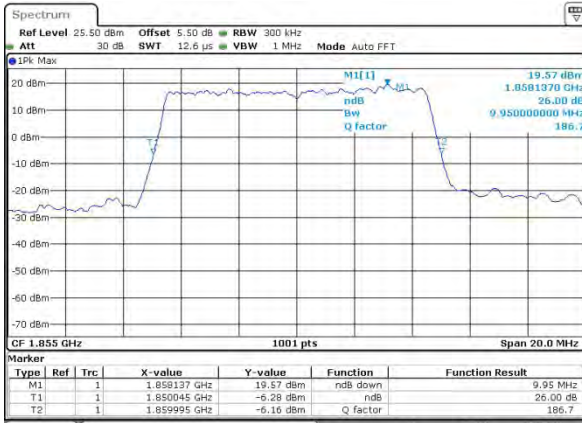
## Highest Channel / 5MHz / 16QAM





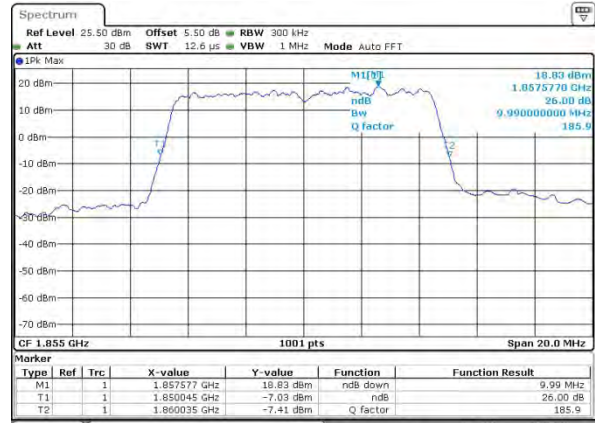
## LTE Band 2

## Lowest Channel / 10MHz / QPSK



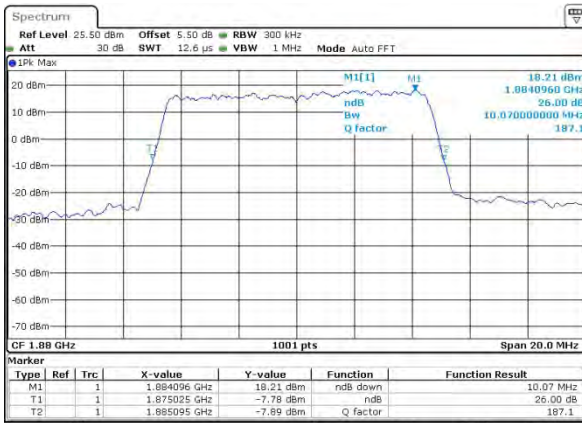
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## Lowest Channel / 10MHz / 16QAM



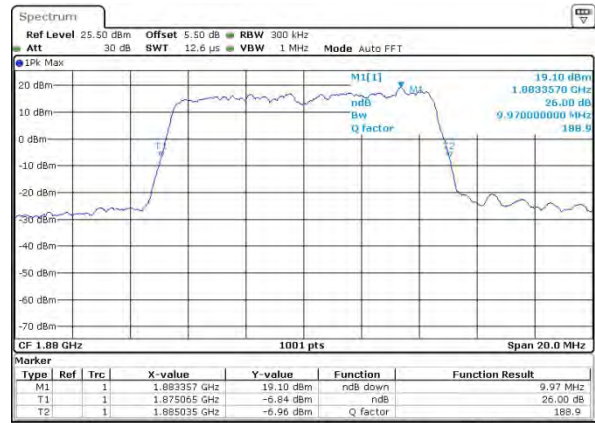
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## Middle Channel / 10MHz / QPSK



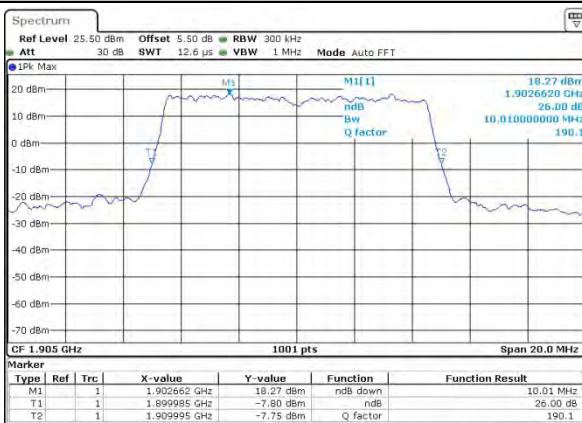
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## Middle Channel / 10MHz / 16QAM



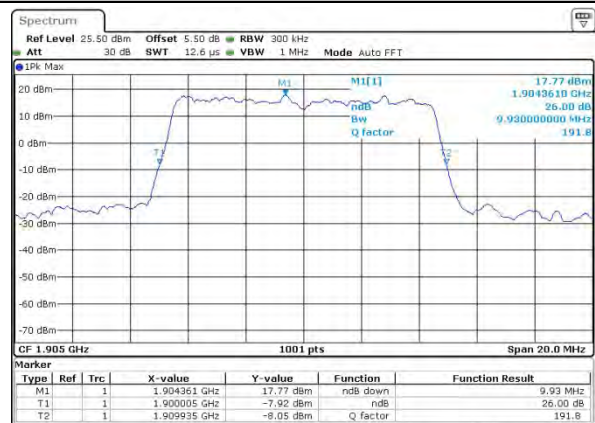
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## Highest Channel / 10MHz / QPSK



Date: 11 JUN 2015 21:11:25

## Highest Channel / 10MHz / 16QAM

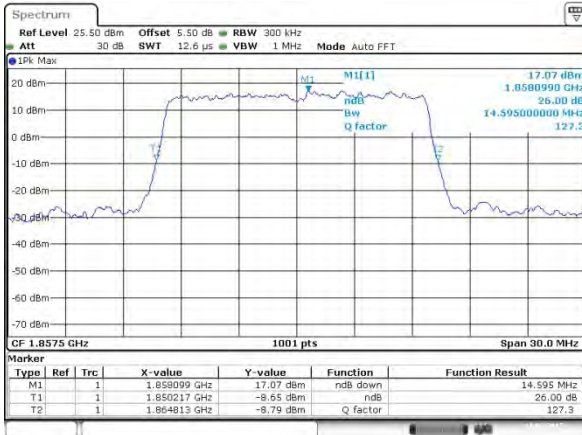


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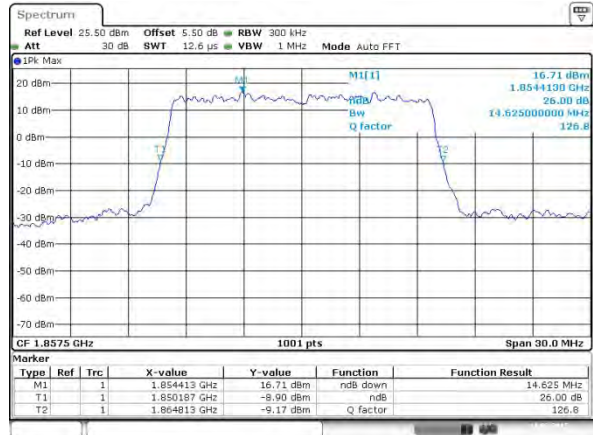
## LTE Band 2

## Lowest Channel / 15MHz / QPSK



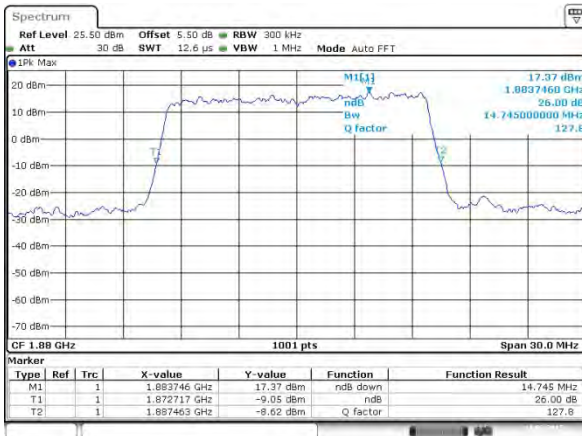
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## Lowest Channel / 15MHz / 16QAM



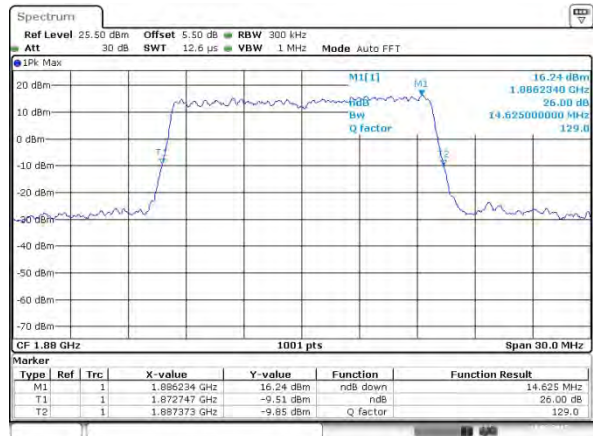
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## Middle Channel / 15MHz / QPSK



Date: 11 JUN 2015 21:18:05

## Middle Channel / 15MHz / 16QAM



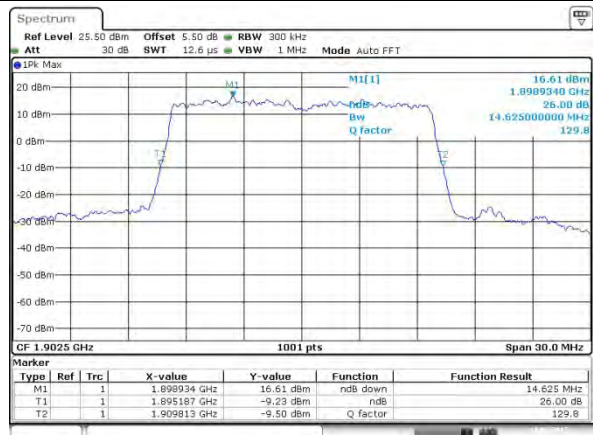
Date: 11 JUN 2015 21:18:20

## Highest Channel / 15MHz / QPSK



Date: 11 JUN 2015 21:21:29

## Highest Channel / 15MHz / 16QAM

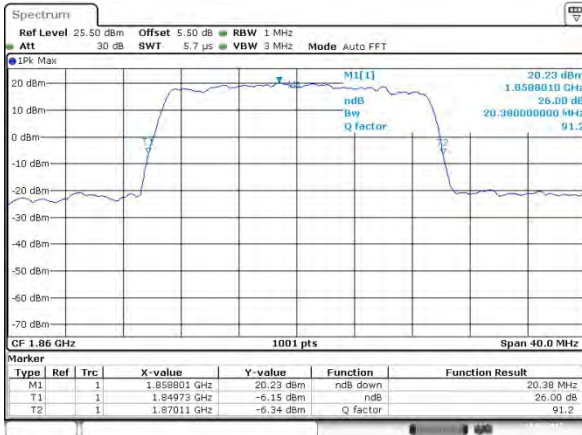


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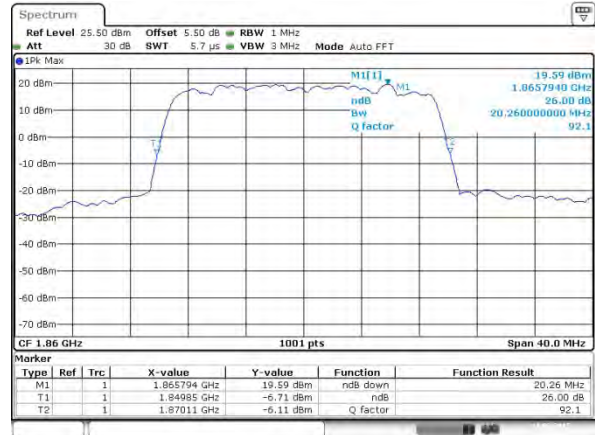


## LTE Band 2

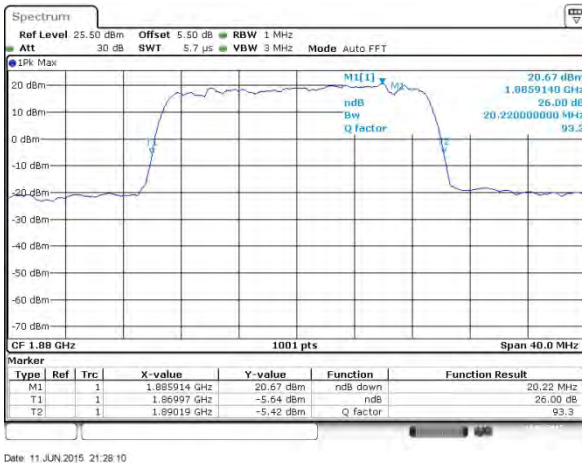
## Lowest Channel / 20MHz / QPSK



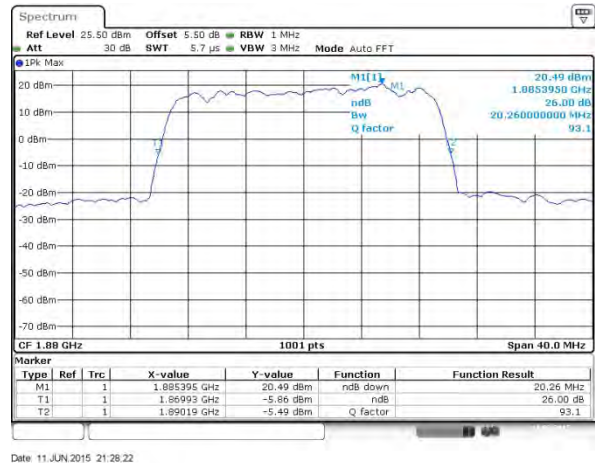
## Lowest Channel / 20MHz / 16QAM



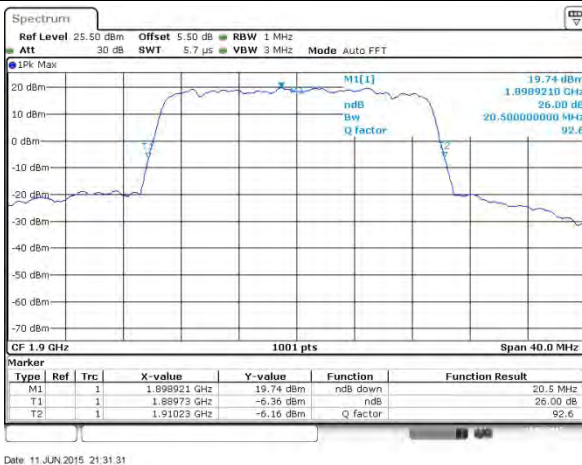
## Middle Channel / 20MHz / QPSK



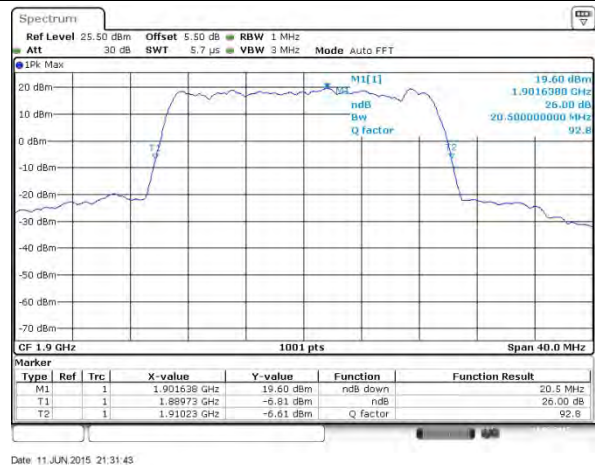
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM



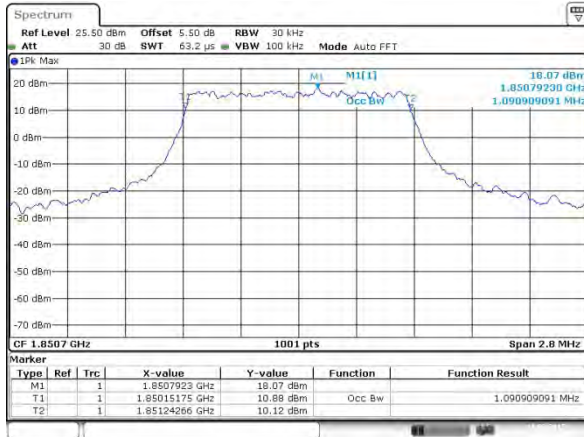
**Occupied Bandwidth**

| Mode       | LTE Band 2 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.09                     | 1.10  | 2.73 | 2.72  | 4.50 | 4.50  | 9.07  | 9.03  | 13.43 | 13.43 | 18.34 | 18.26 |
| Middle CH  | 1.10                     | 1.10  | 2.73 | 2.73  | 4.50 | 4.51  | 9.11  | 9.07  | 13.49 | 13.46 | 18.34 | 18.34 |
| Highest CH | 1.10                     | 1.10  | 2.73 | 2.72  | 4.51 | 4.49  | 9.05  | 9.03  | 13.49 | 13.49 | 18.46 | 18.30 |

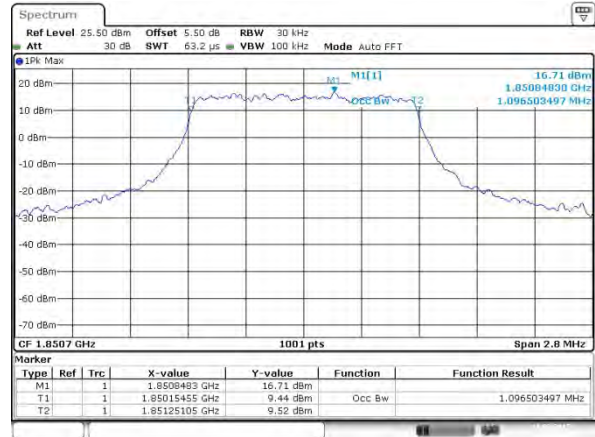


## LTE Band 2

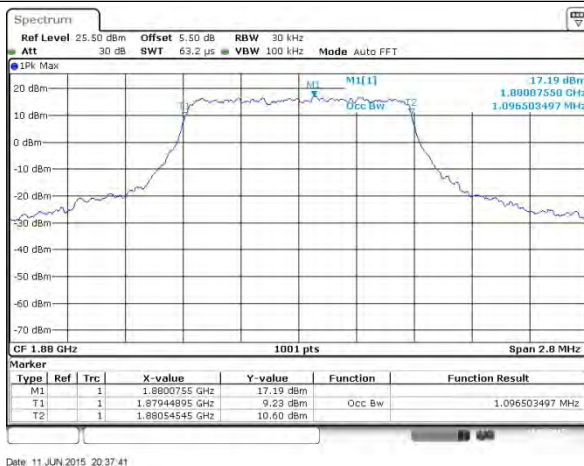
## Lowest Channel / 1.4MHz / QPSK



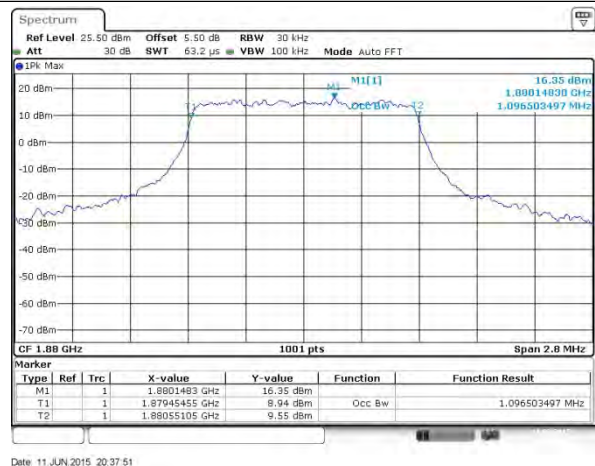
## Lowest Channel / 1.4MHz / 16QAM



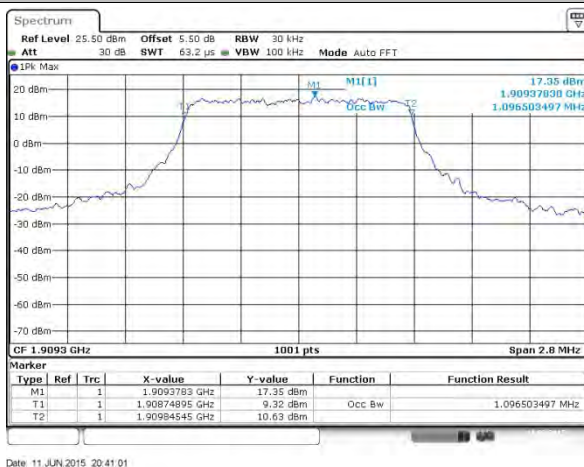
## Middle Channel / 1.4MHz / QPSK



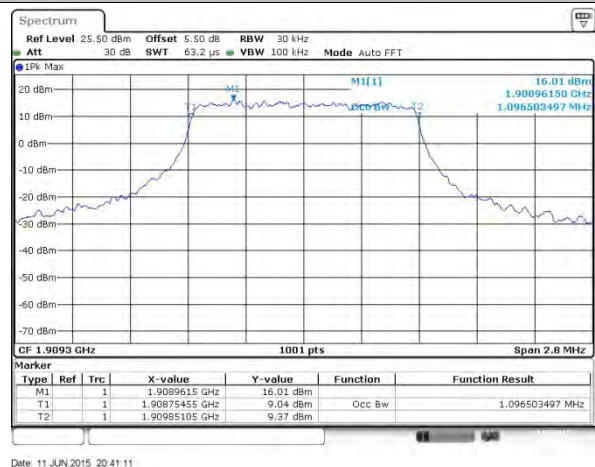
## Middle Channel / 1.4MHz / 16QAM



## Highest Channel / 1.4MHz / QPSK



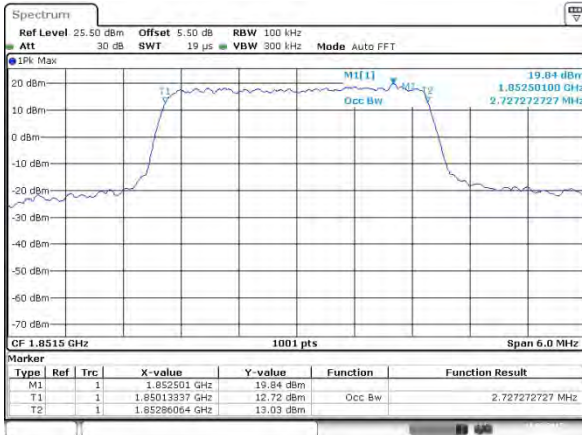
## Highest Channel / 1.4MHz / 16QAM



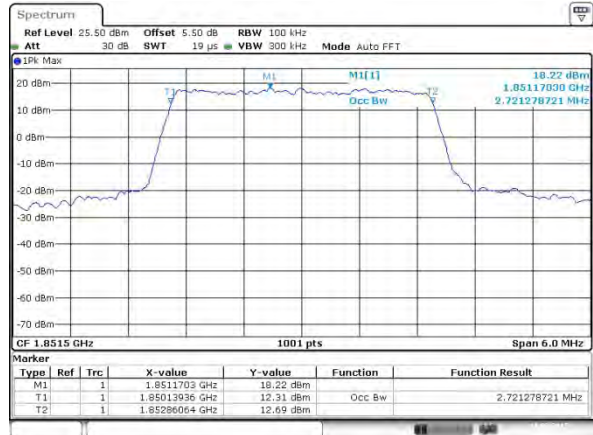


## LTE Band 2

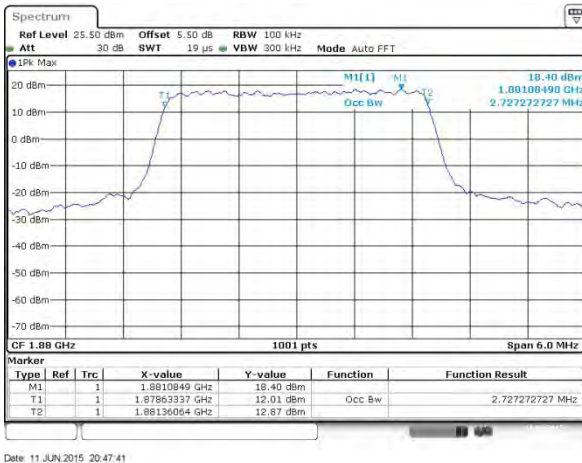
## Lowest Channel / 3MHz / QPSK



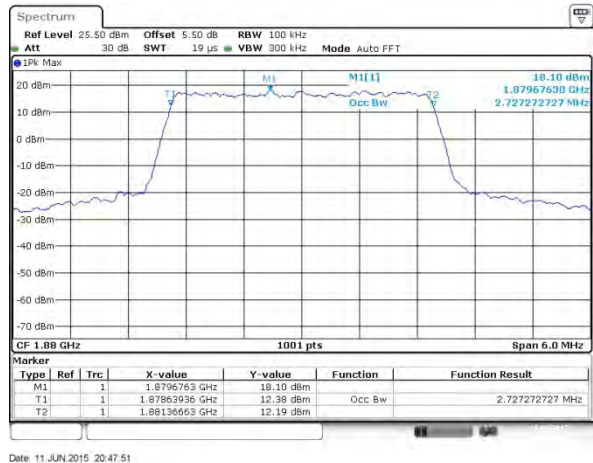
## Lowest Channel / 3MHz / 16QAM



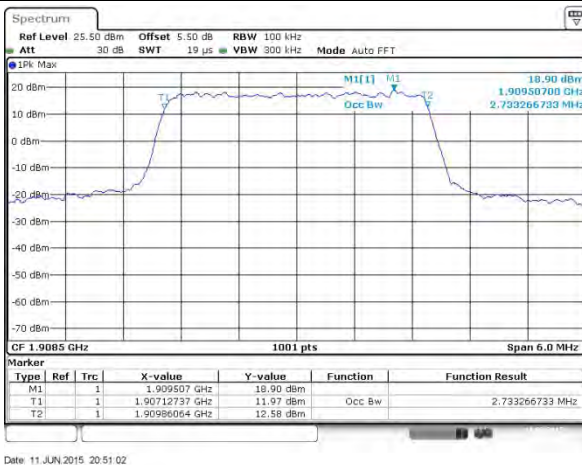
## Middle Channel / 3MHz / QPSK



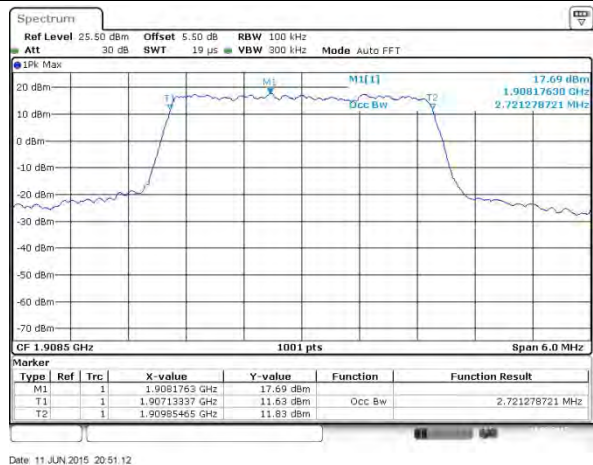
## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



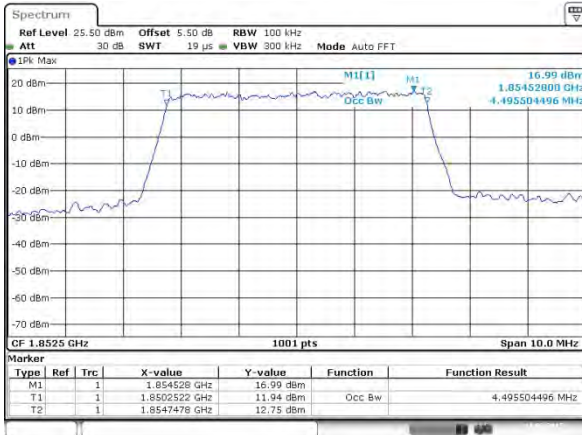
## Highest Channel / 3MHz / 16QAM



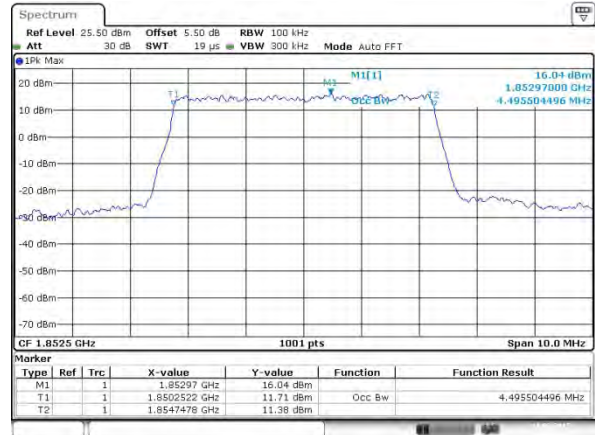


## LTE Band 2

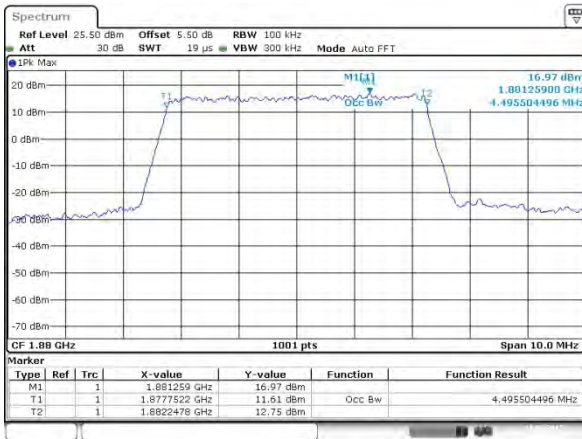
## Lowest Channel / 5MHz / QPSK



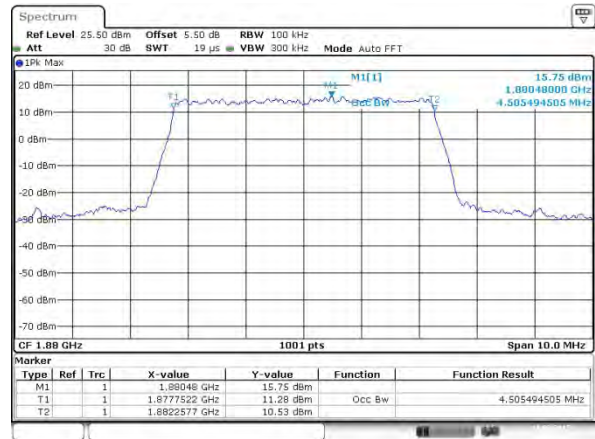
## Lowest Channel / 5MHz / 16QAM



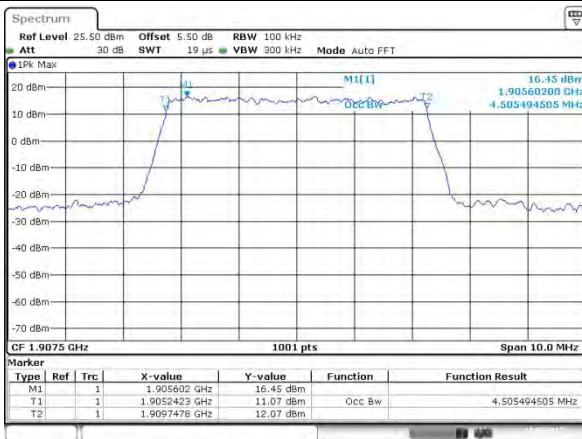
## Middle Channel / 5MHz / QPSK



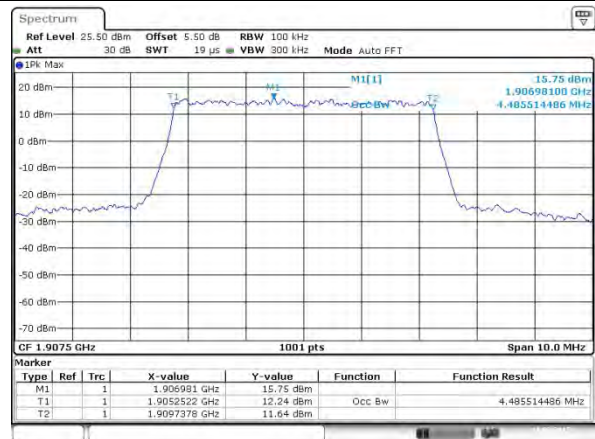
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



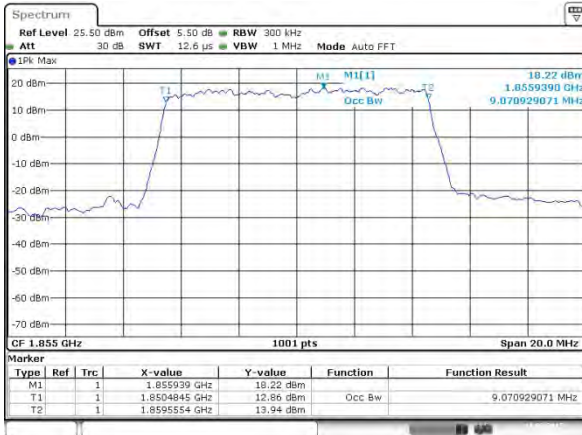
## Highest Channel / 5MHz / 16QAM



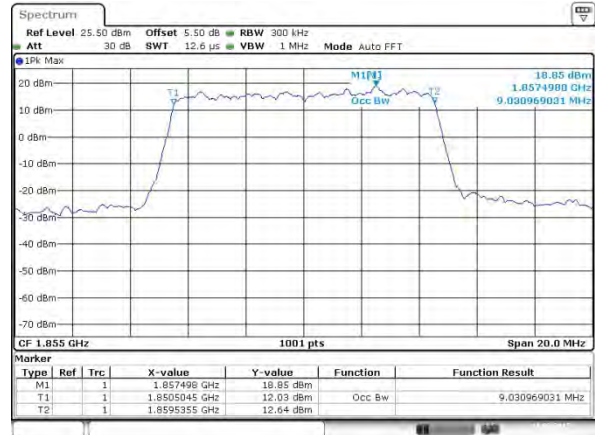


## LTE Band 2

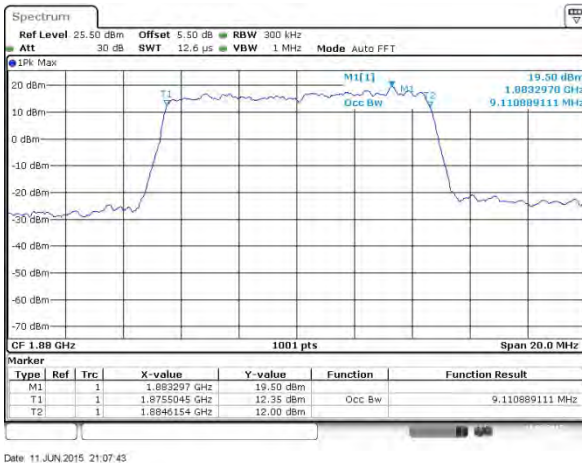
## Lowest Channel / 10MHz / QPSK



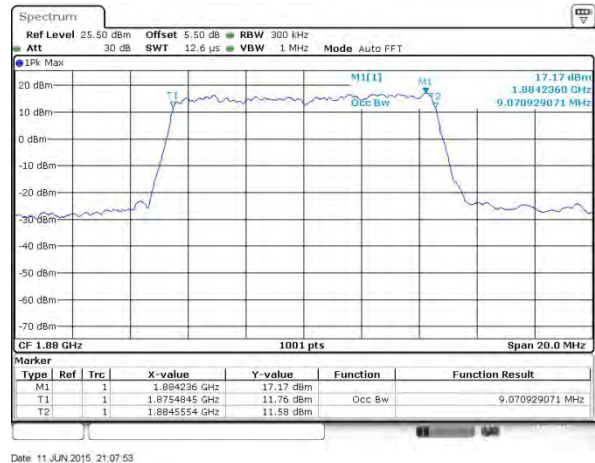
## Lowest Channel / 10MHz / 16QAM



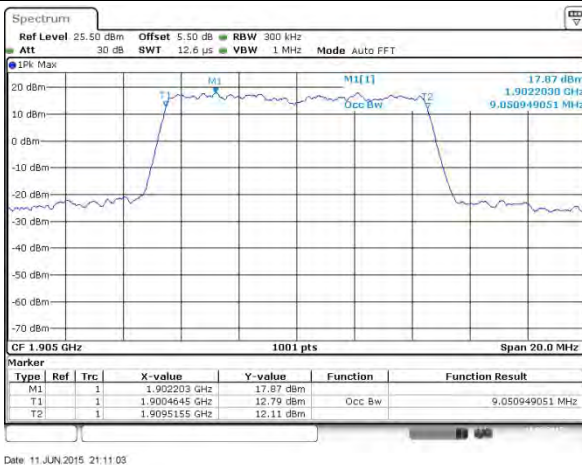
## Middle Channel / 10MHz / QPSK



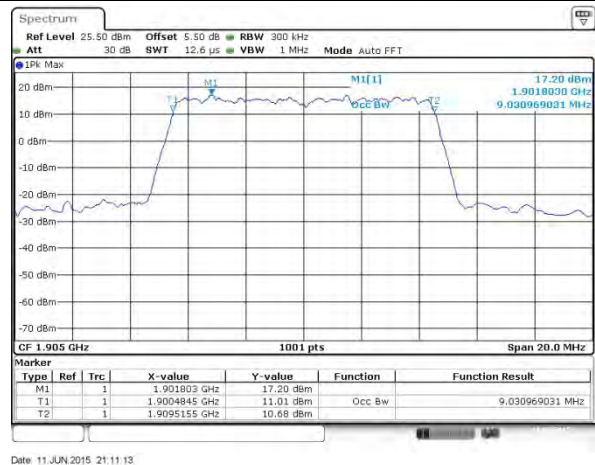
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



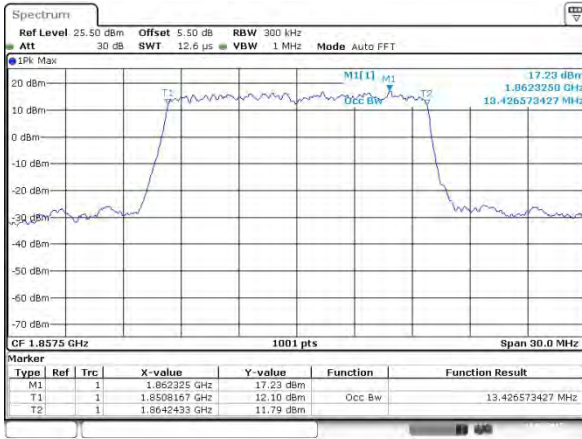
## Highest Channel / 10MHz / 16QAM



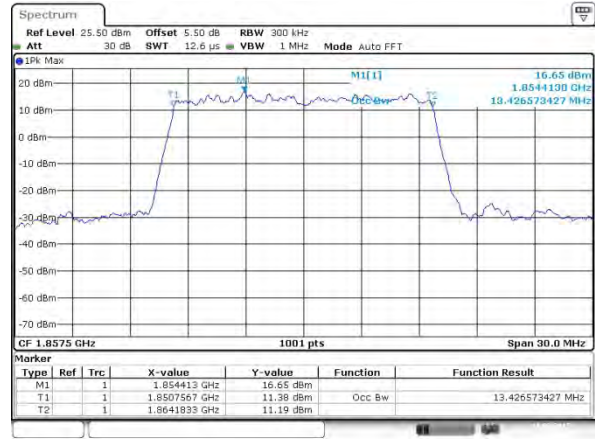


## LTE Band 2

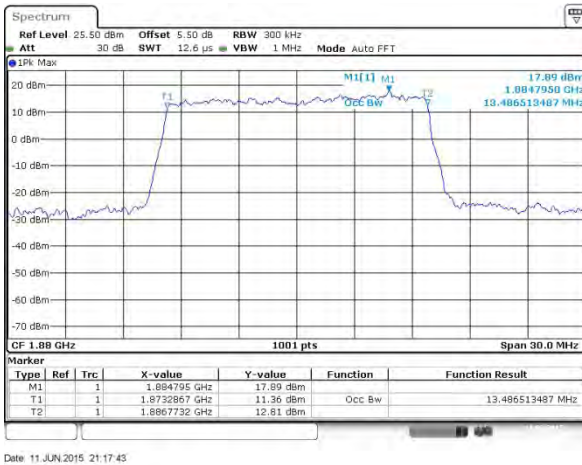
## Lowest Channel / 15MHz / QPSK



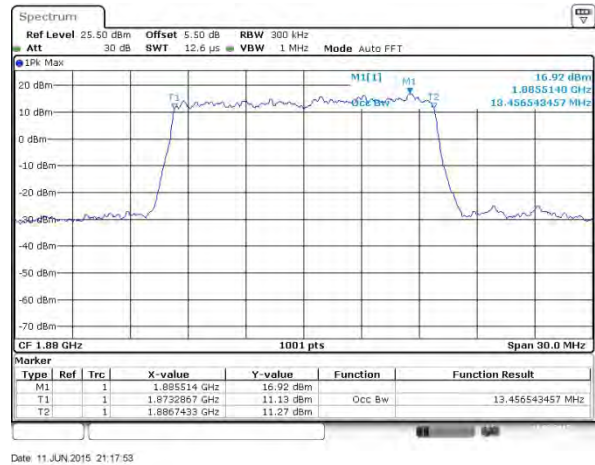
## Lowest Channel / 15MHz / 16QAM



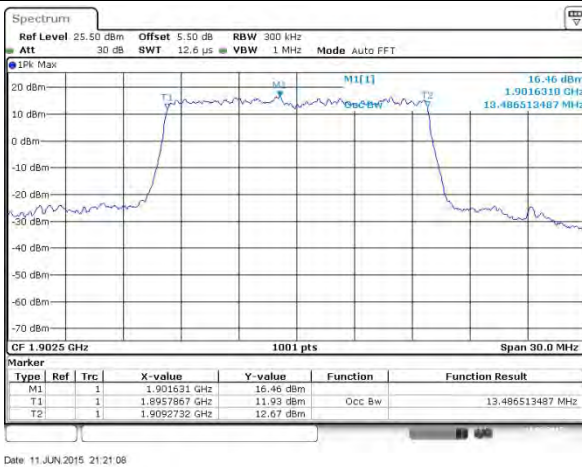
## Middle Channel / 15MHz / QPSK



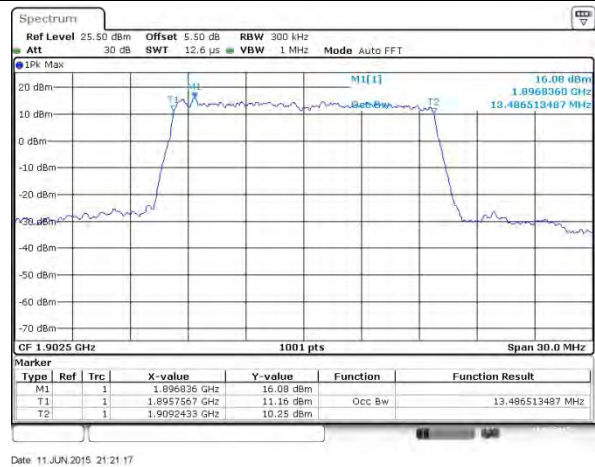
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



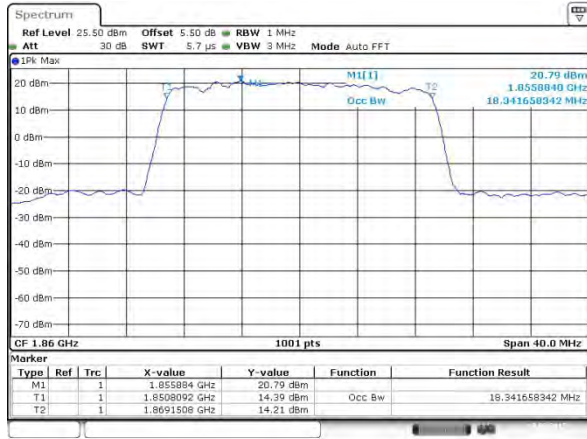
## Highest Channel / 15MHz / 16QAM



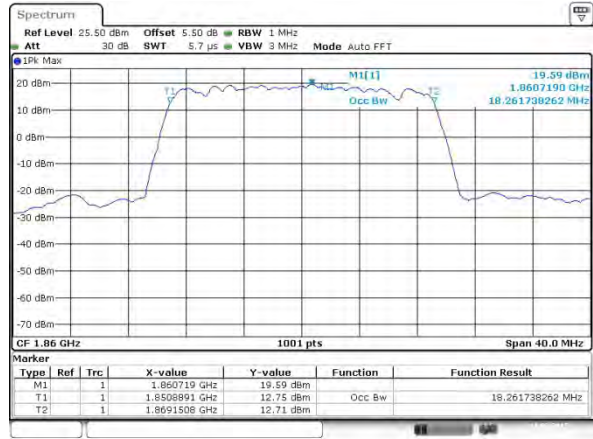


## LTE Band 2

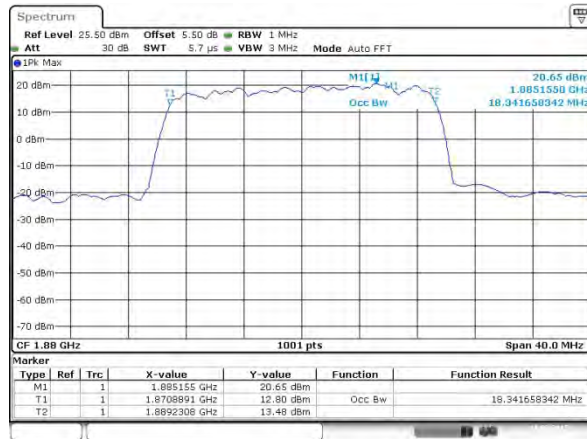
## Lowest Channel / 20MHz / QPSK



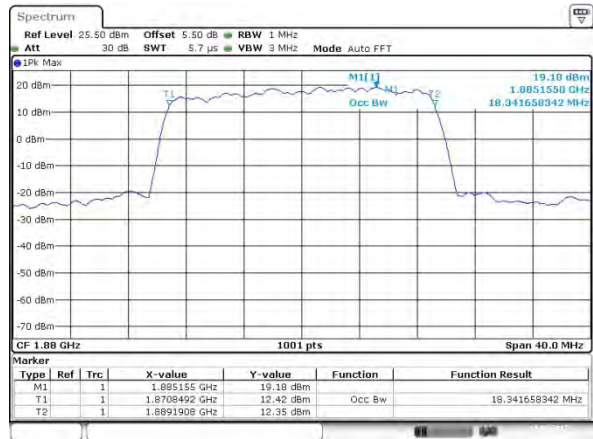
## Lowest Channel / 20MHz / 16QAM



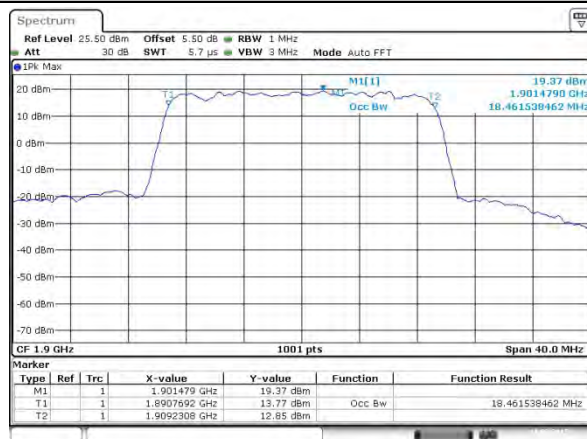
## Middle Channel / 20MHz / QPSK



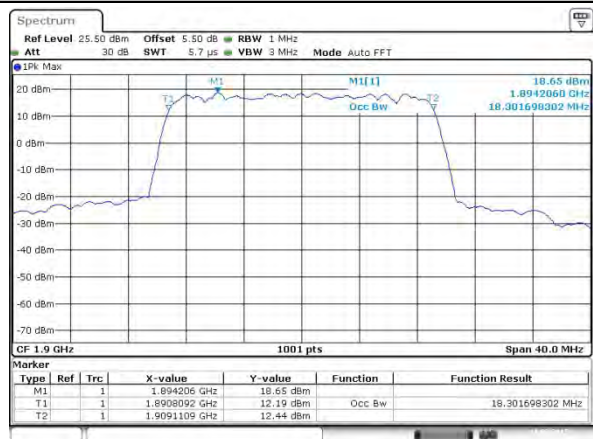
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM





## Conducted Band Edge

### LTE Band 2 / 1.4MHz / QPSK

#### Lowest Band Edge / 1RB



#### Highest Band Edge / 1RB



#### Lowest Band Edge / Full RB



#### Highest Band Edge / Full RB





## LTE Band 2 / 1.4MHz / 16QAM

## Lowest Band Edge / 1 RB

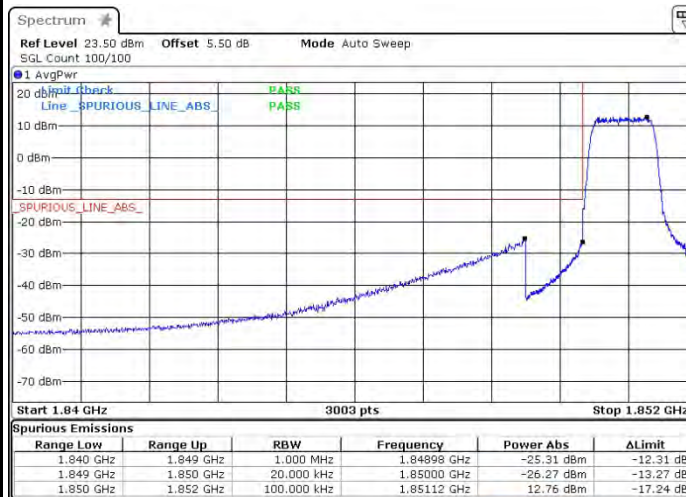


## Highest Band Edge / 1 RB



Date: 11 JUN 2015 22:38:45

## Lowest Band Edge / Full RB



Date: 11 JUN 2015 22:29:34

## Highest Band Edge / Full RB

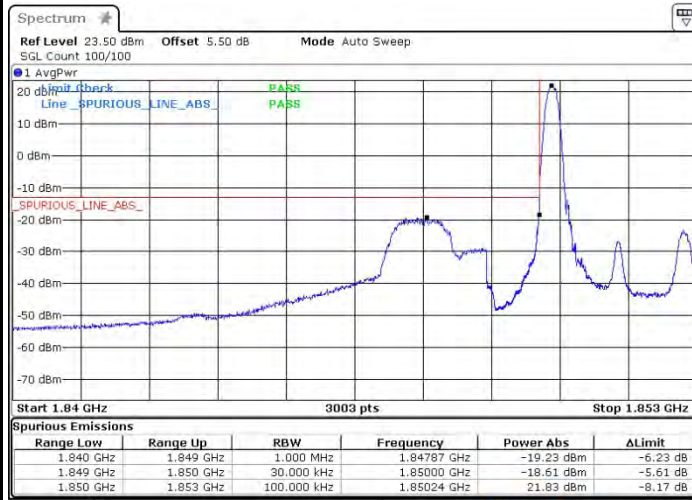


Date: 11 JUN 2015 22:45:08



## LTE Band 2 / 3MHz / QPSK

## Lowest Band Edge / 1RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



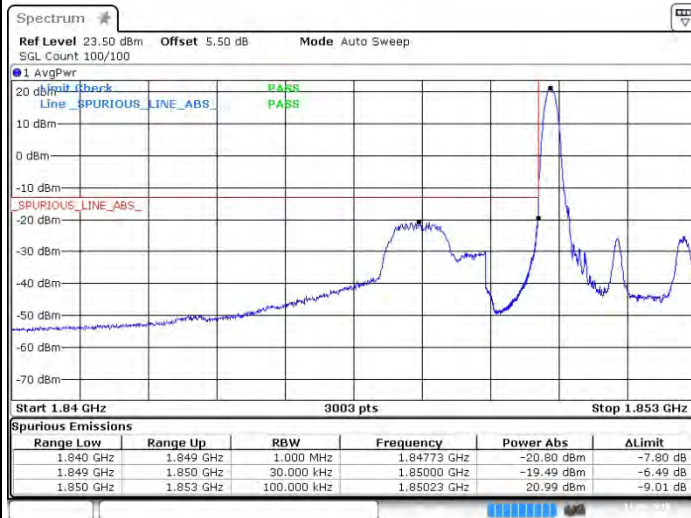
## Highest Band Edge / Full RB





## LTE Band 2 / 3MHz / 16QAM

## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



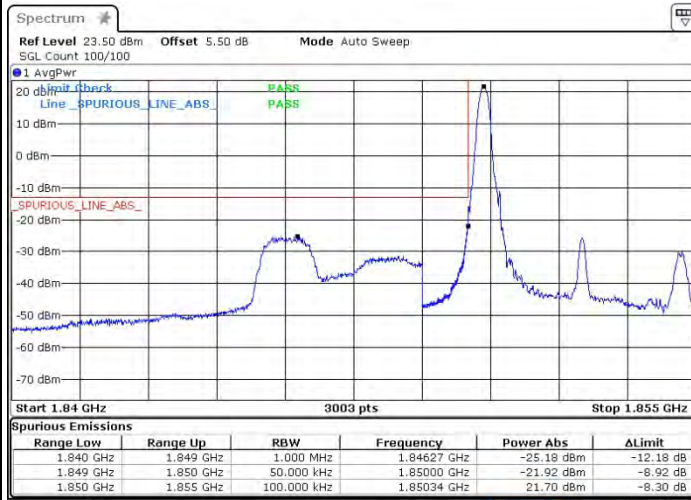
## Highest Band Edge / Full RB



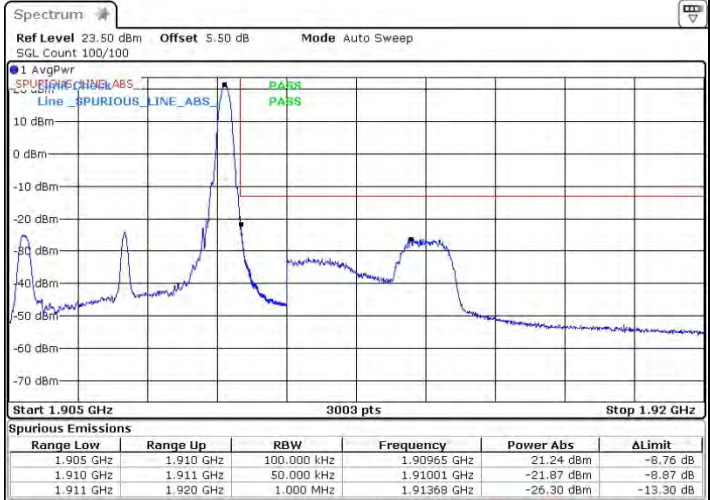


## LTE Band 2 / 5MHz / QPSK

## Lowest Band Edge / 1 RB



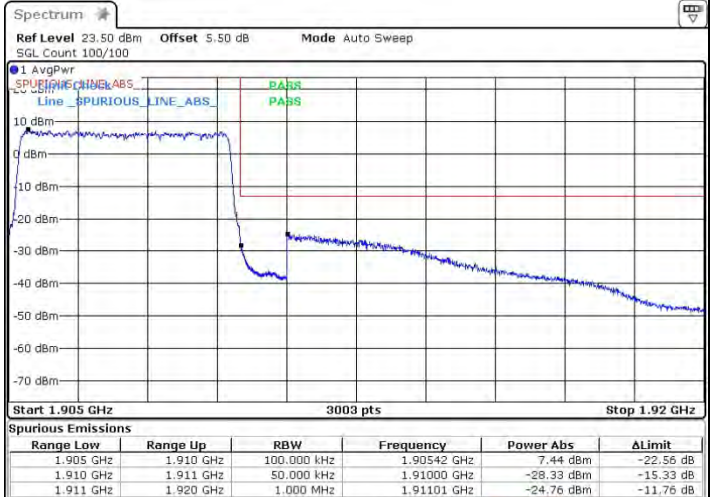
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



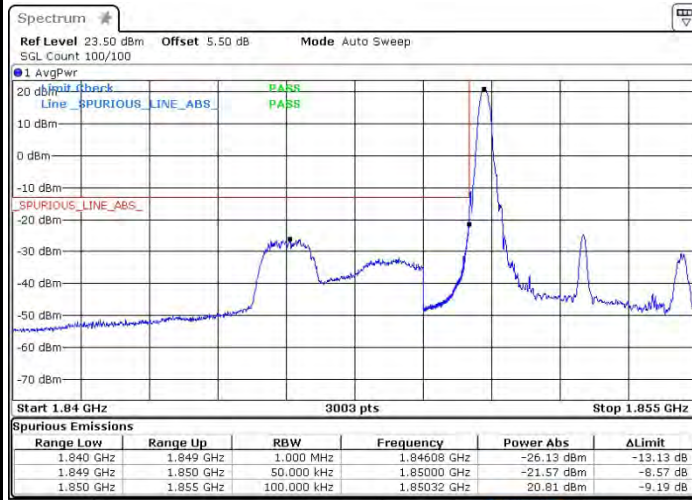
## Highest Band Edge / Full RB



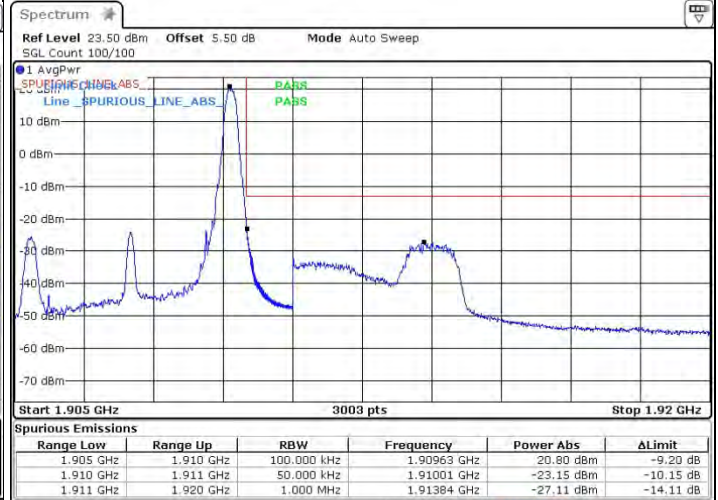


## LTE Band 2 / 5MHz / 16QAM

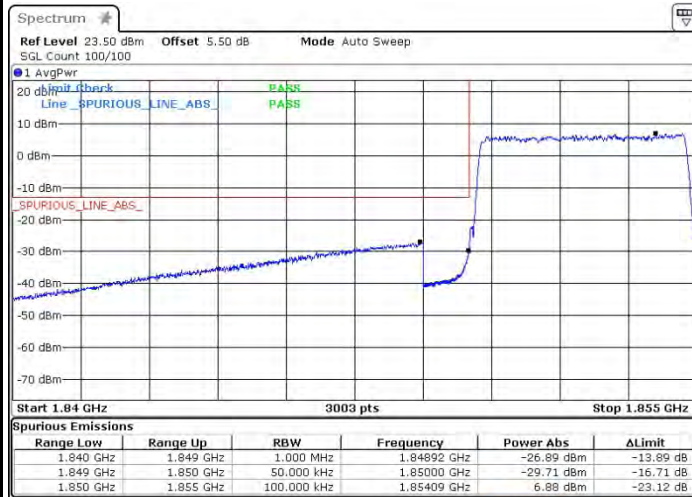
## Lowest Band Edge / 1RB



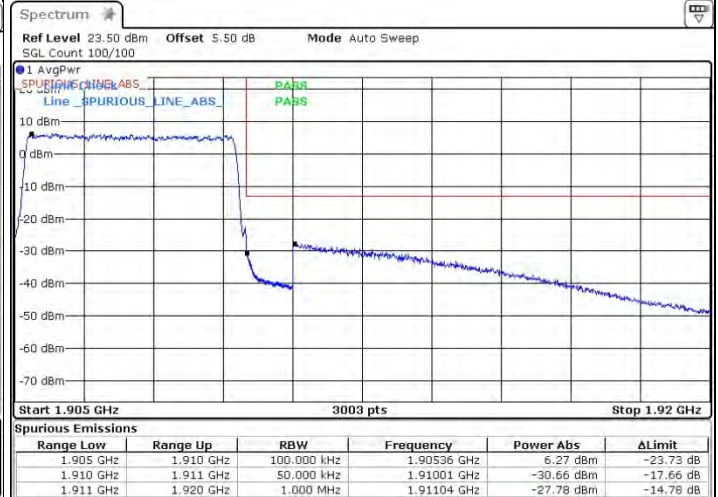
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



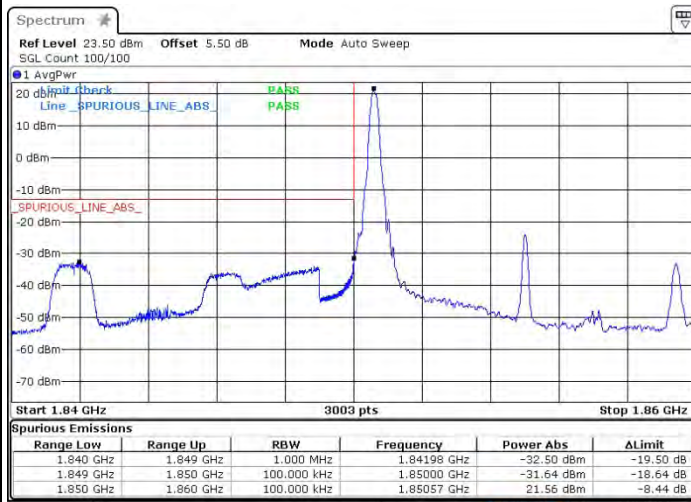
## Highest Band Edge / Full RB



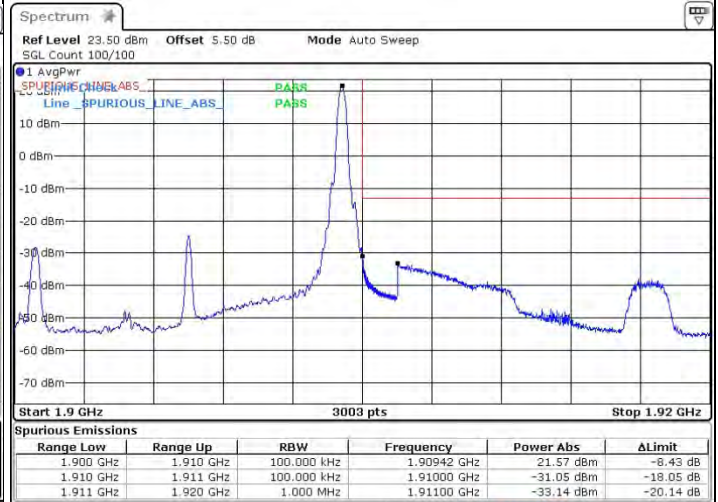


## LTE Band 2 / 10MHz / QPSK

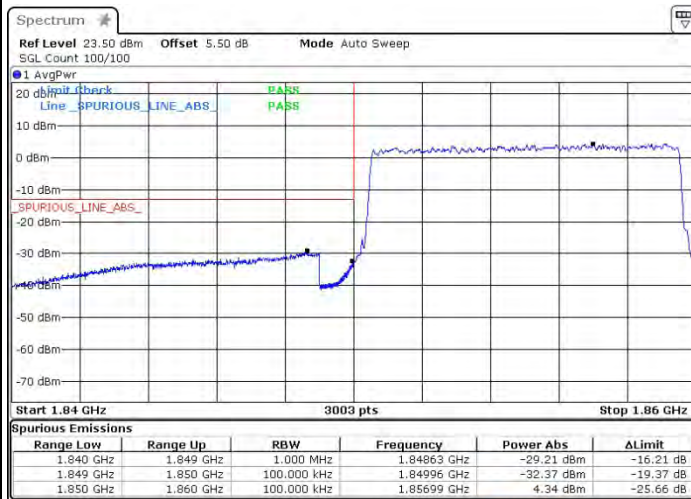
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



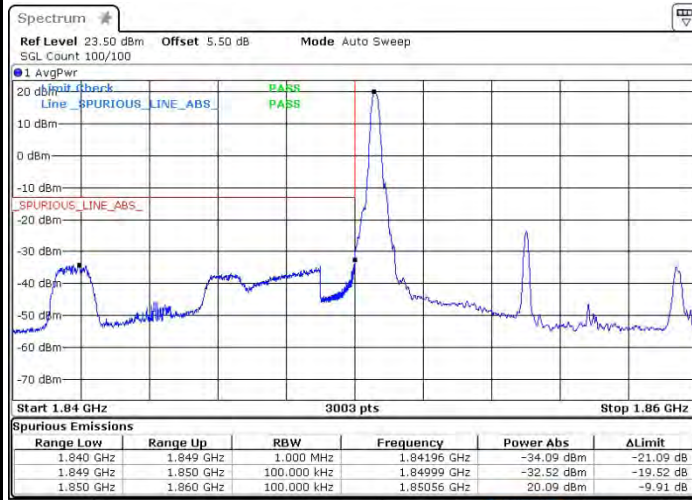
## Highest Band Edge / Full RB



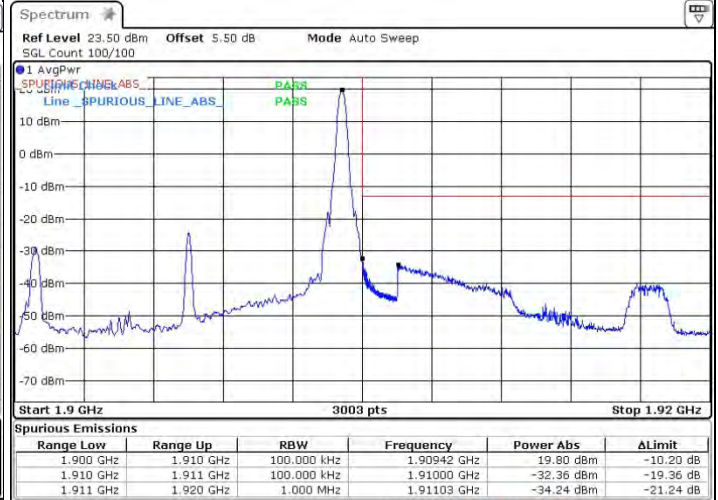


## LTE Band 2 / 10MHz / 16QAM

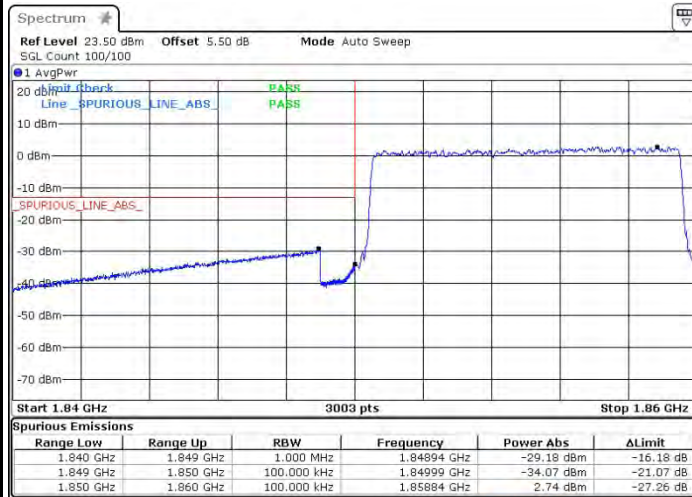
## Lowest Band Edge / 1 RB



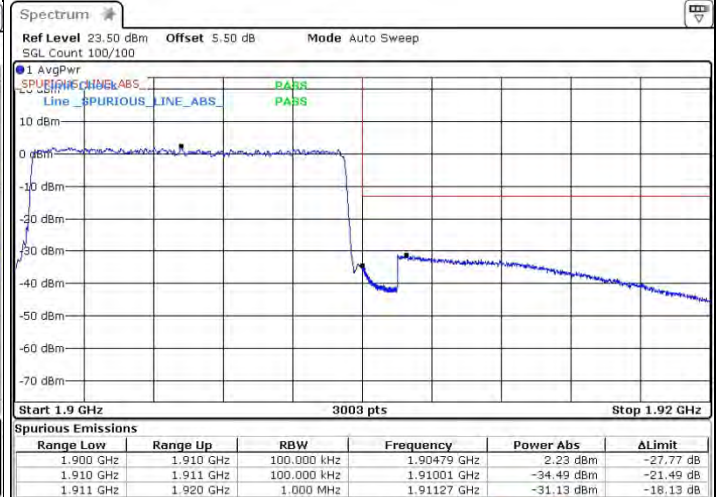
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



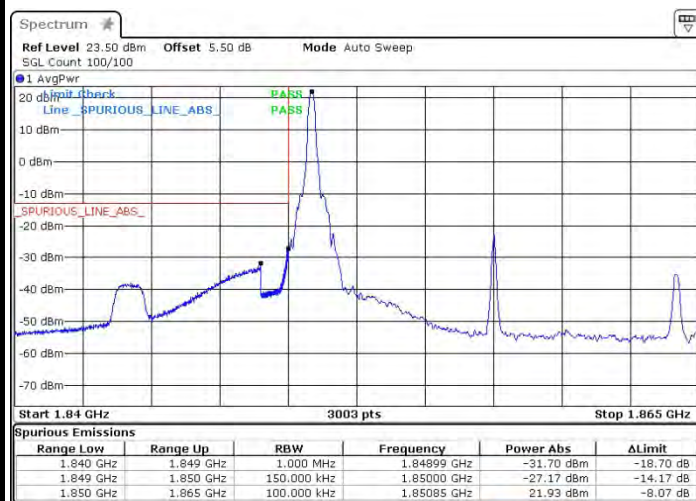
## Highest Band Edge / Full RB





## LTE Band 2 / 15MHz / QPSK

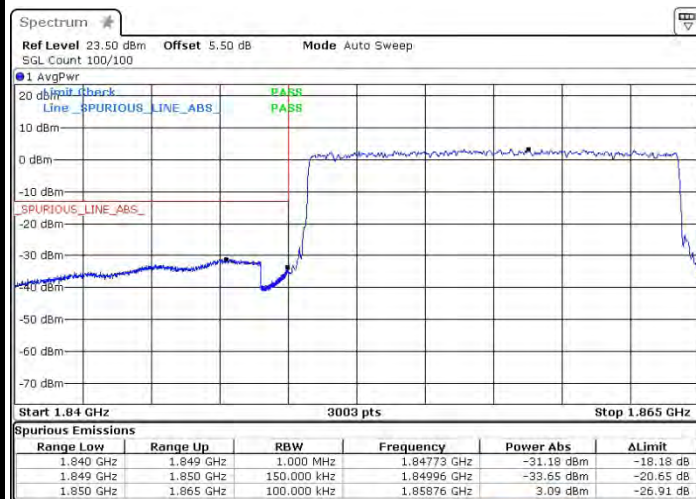
## Lowest Band Edge / 1 RB



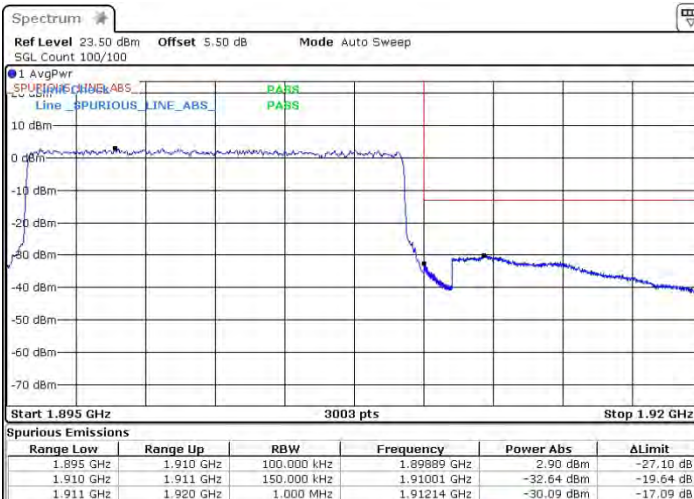
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



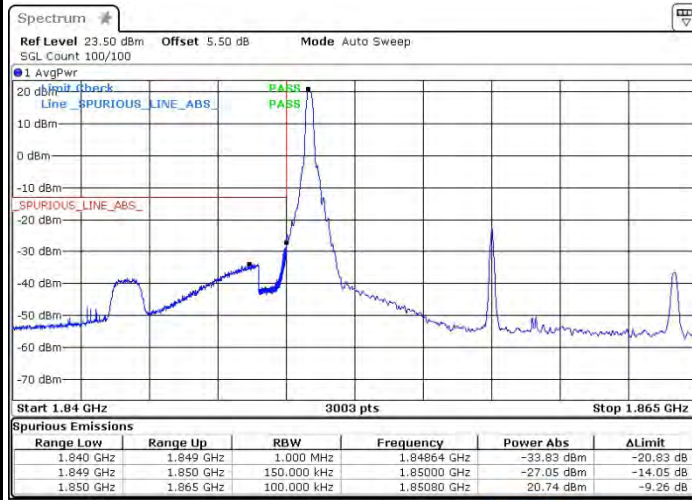
## Highest Band Edge / Full RB



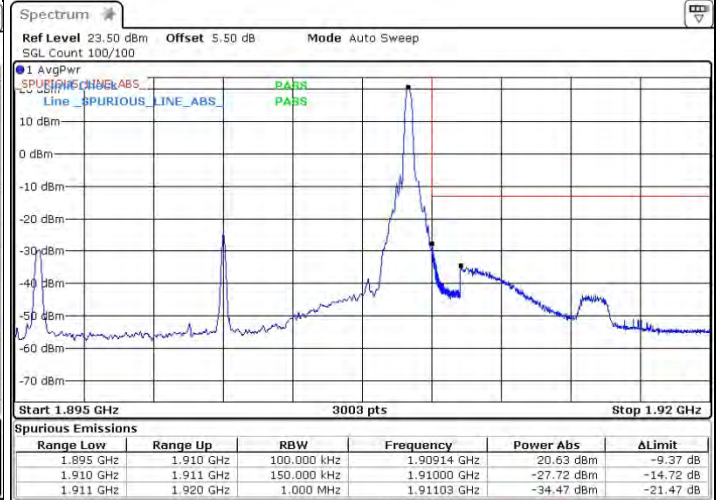


## LTE Band 2 / 15MHz / 16QAM

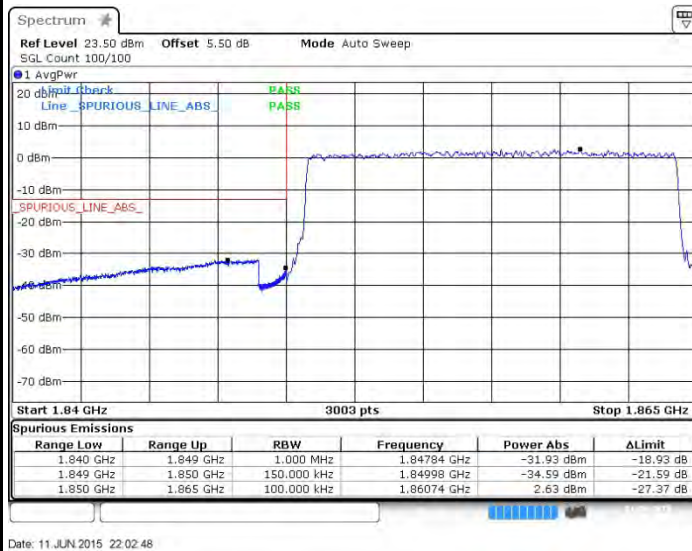
## Lowest Band Edge / 1 RB



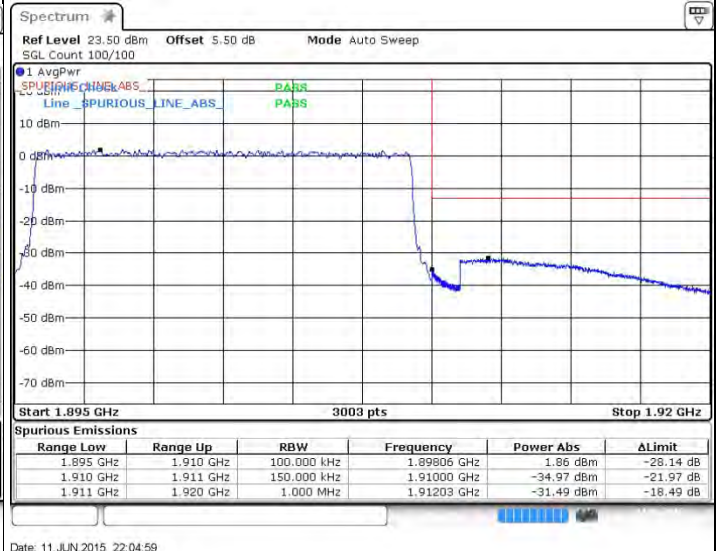
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



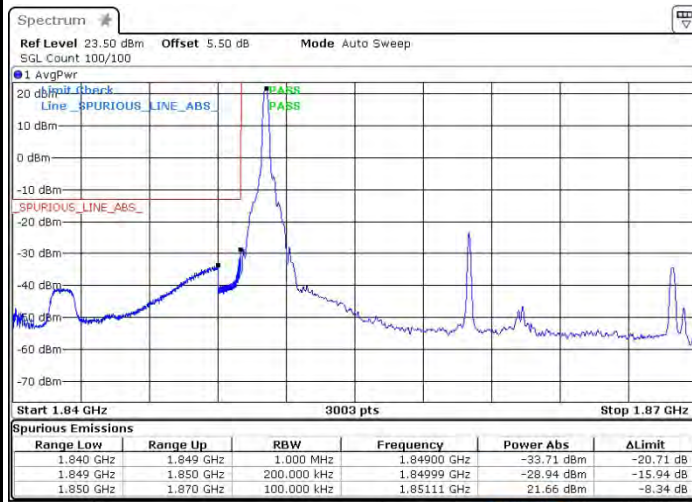
## Highest Band Edge / Full RB



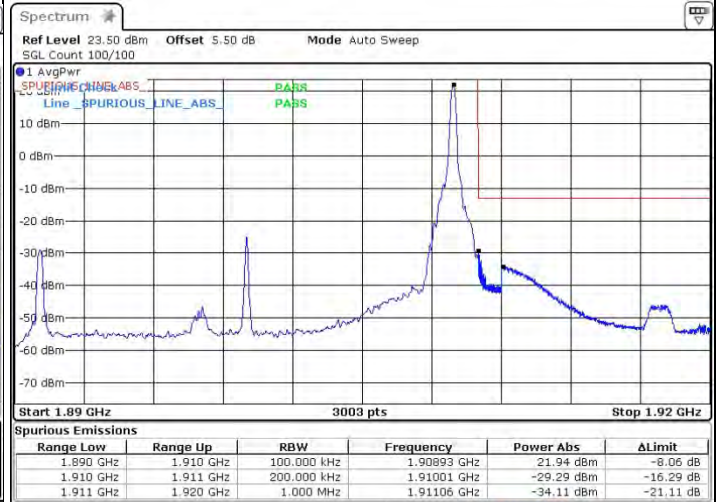


## LTE Band 2 / 20MHz / QPSK

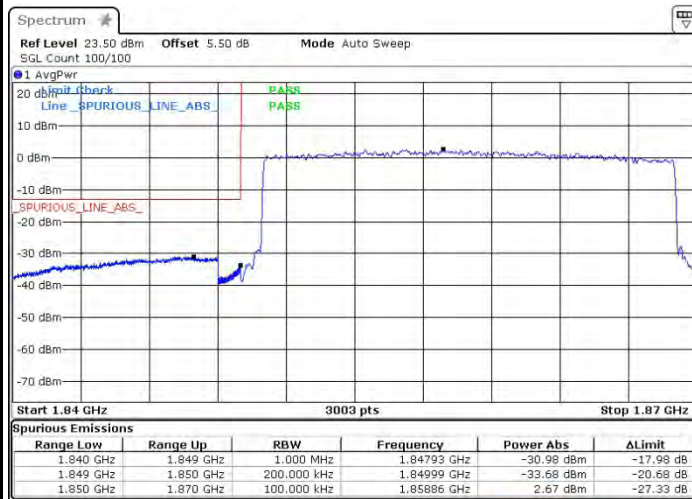
## Lowest Band Edge / 1 RB



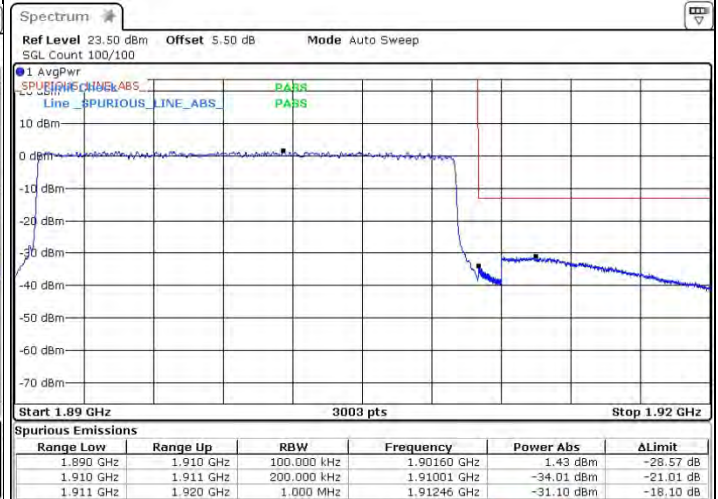
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



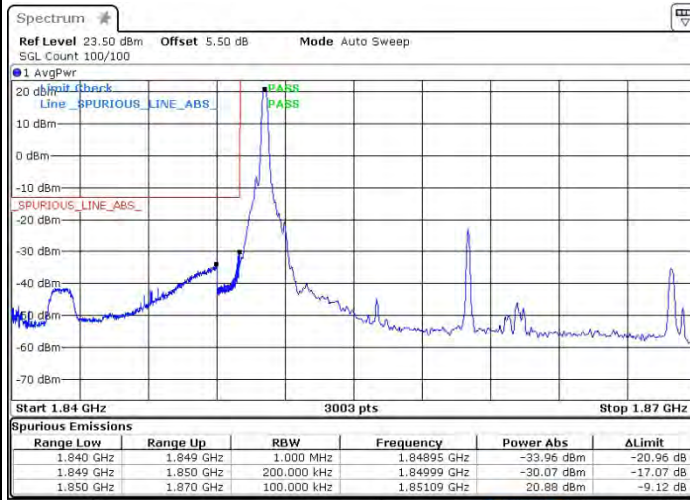
## Highest Band Edge / Full RB





## LTE Band 2 / 20MHz / 16QAM

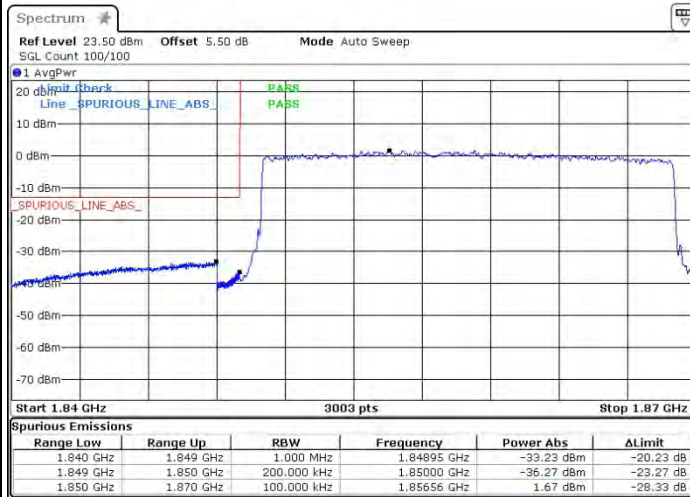
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB



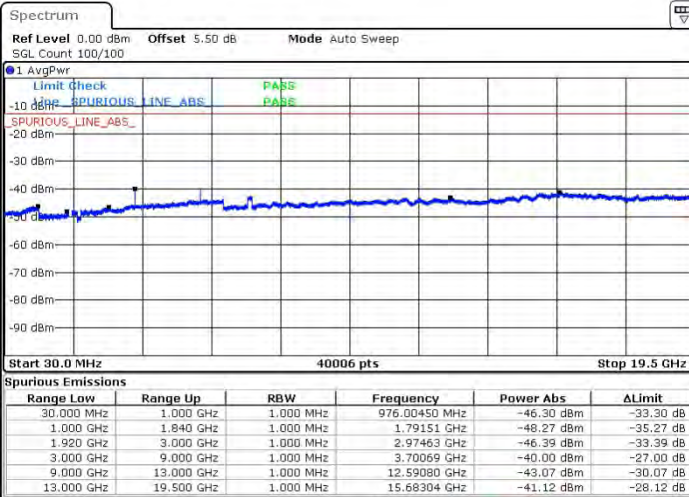


# Conducted Spurious Emission

## LTE Band 2 / 1.4MHz

### Lowest Channel / QPSK

### Lowest Channel / 16QAM



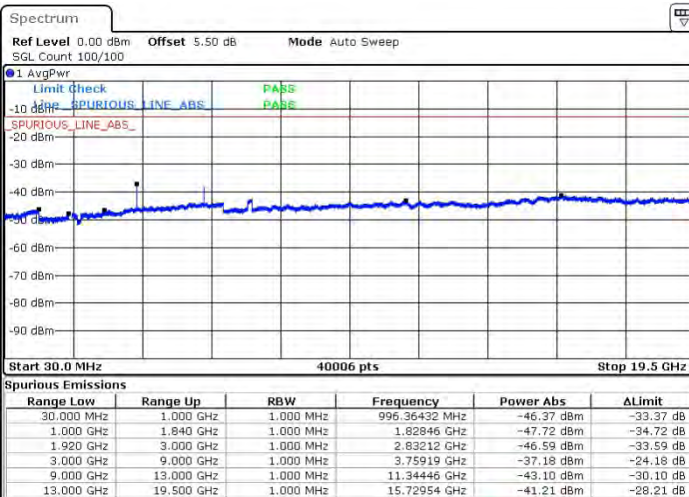
Date: 11 JUN 2015 20:36:02



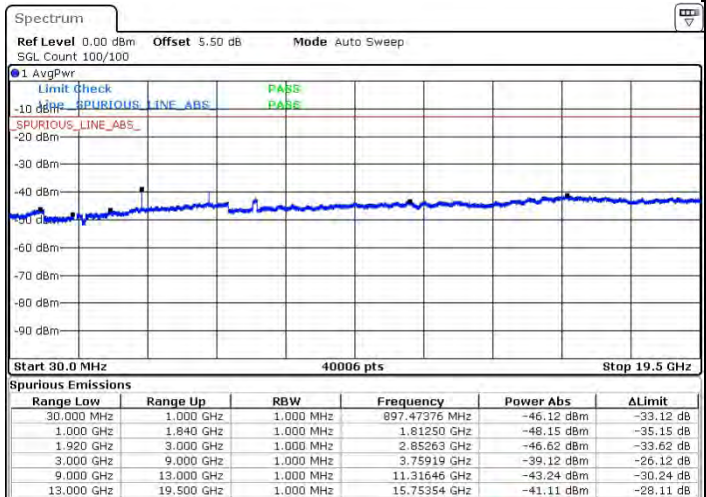
Date: 11 JUN 2015 20:37:21

### Middle Channel / QPSK

### Middle Channel / 16QAM



Date: 11 JUN 2015 20:39:22



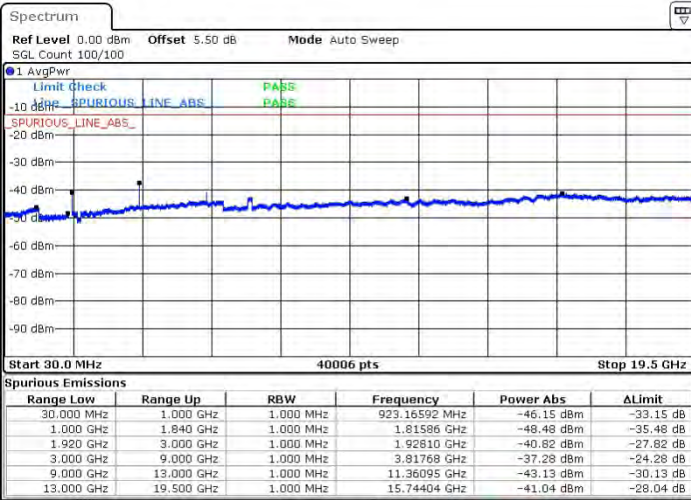
Date: 11 JUN 2015 20:40:41



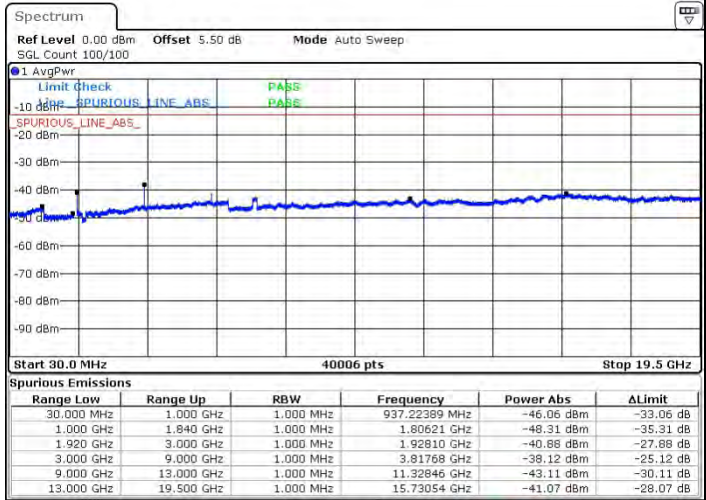
## LTE Band 2 / 1.4MHz

## Highest Channel / QPSK

## Highest Channel / 16QAM



Date: 11 JUN 2015 20:42:43

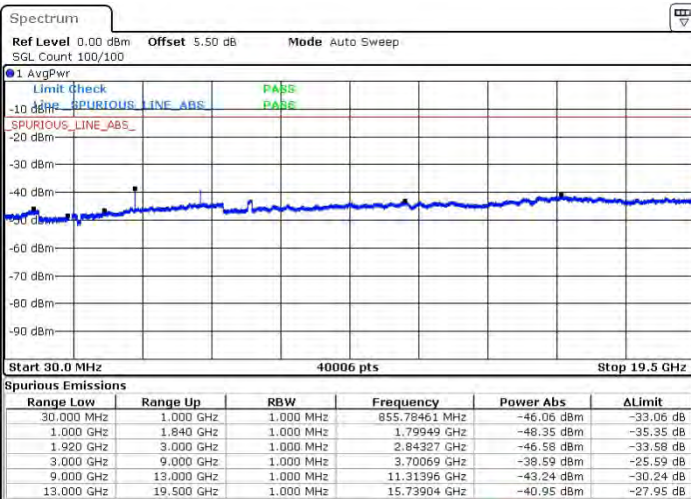


Date: 11 JUN 2015 20:44:01

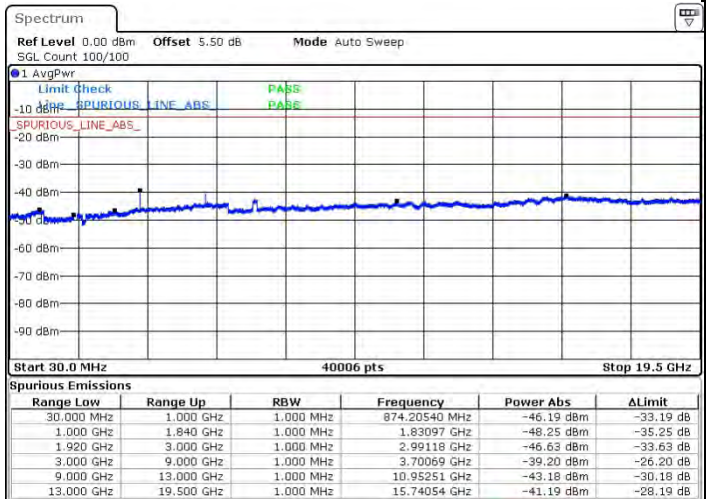
## LTE Band 2 / 3MHz

## Lowest Channel / QPSK

## Lowest Channel / 16QAM



Date: 11 JUN 2015 20:46:03



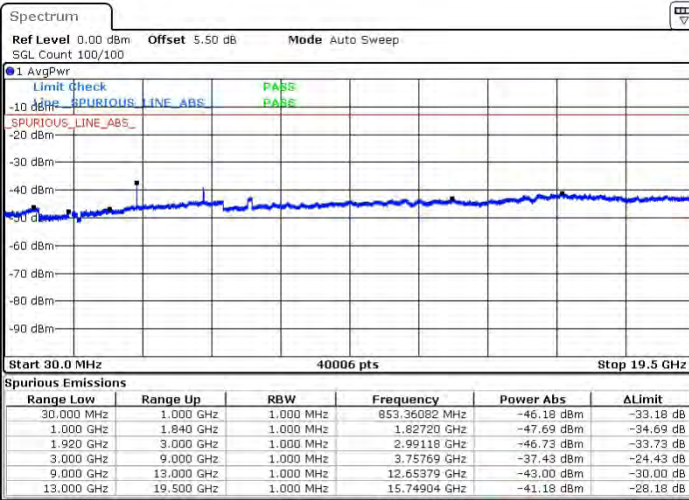
Date: 11 JUN 2015 20:47:21



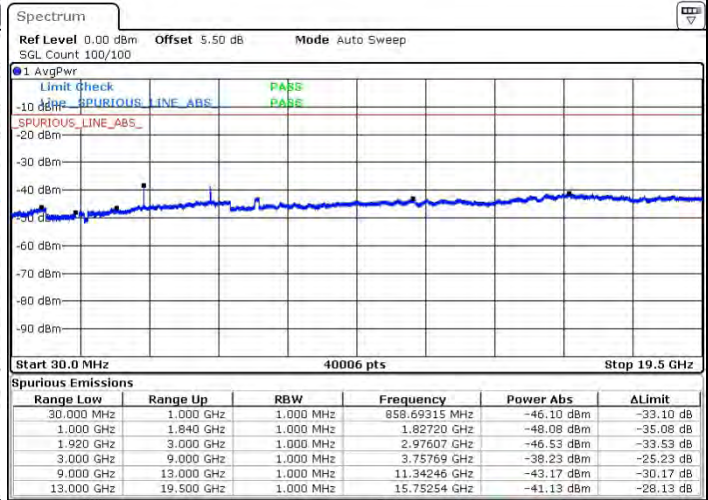
## LTE Band 2 / 3MHz

## Middle Channel / QPSK

## Middle Channel / 16QAM



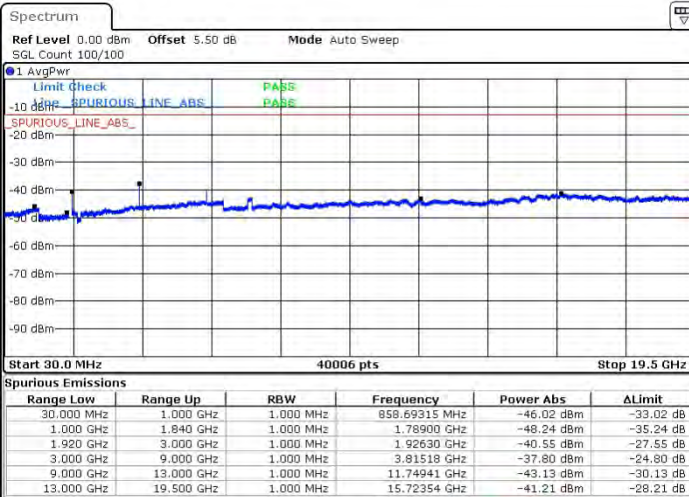
Date: 11 JUN 2015 20:49:23



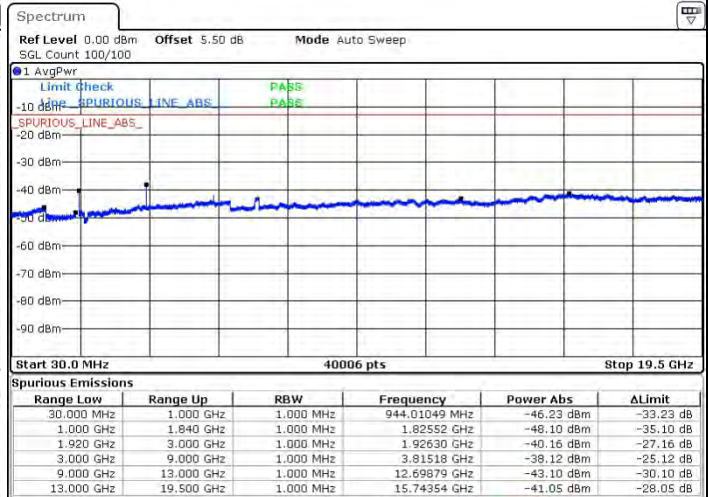
Date: 11 JUN 2015 20:50:41

## Highest Channel / QPSK

## Highest Channel / 16QAM



Date: 11 JUN 2015 20:52:43



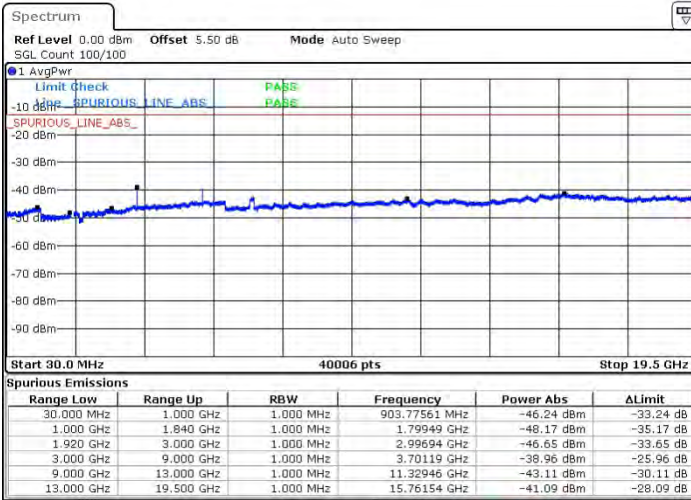
Date: 11 JUN 2015 20:54:02



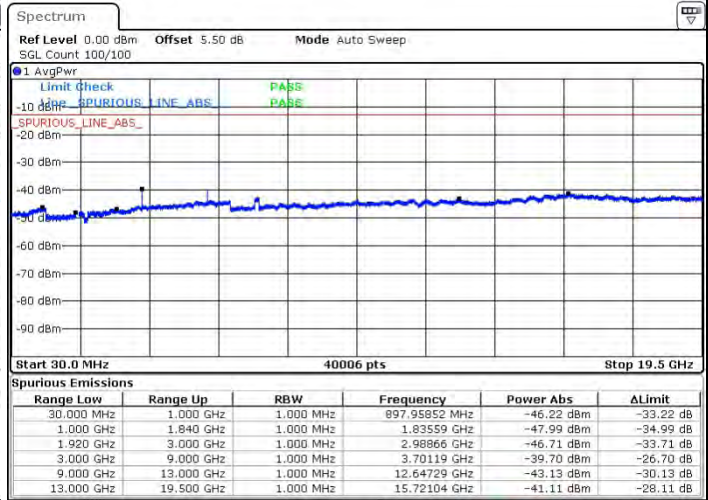
## LTE Band 2 / 5MHz

## Lowest Channel / QPSK

## Lowest Channel / 16QAM



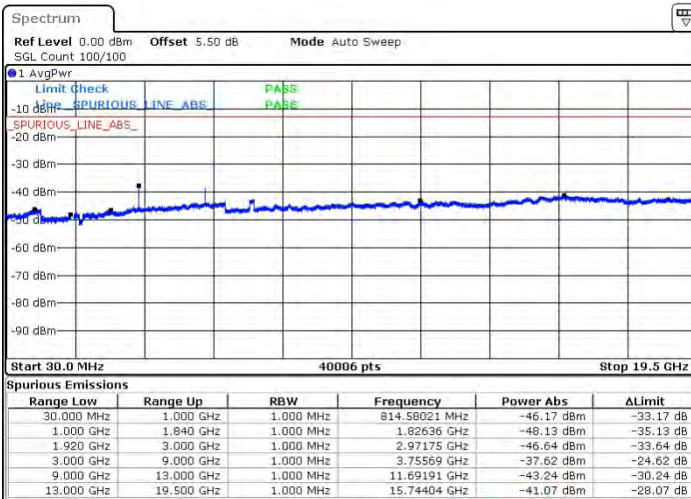
Date: 11 JUN 2015 20:56:03



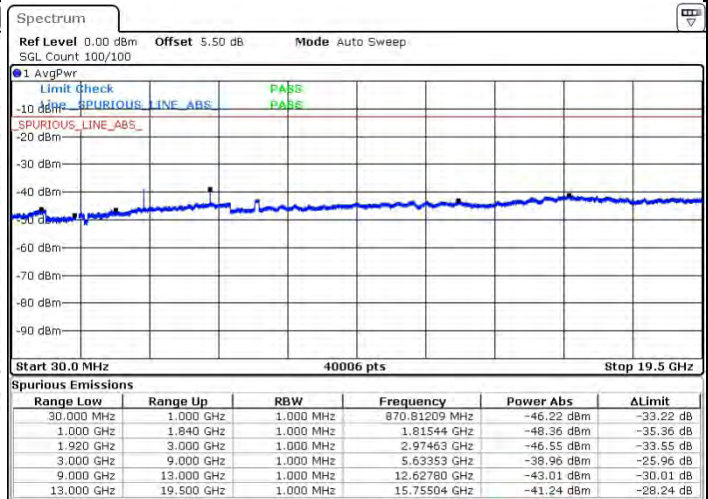
Date: 11 JUN 2015 20:57:22

## Middle Channel / QPSK

## Middle Channel / 16QAM



Date: 11 JUN 2015 20:59:24



Date: 11 JUN 2015 21:00:42

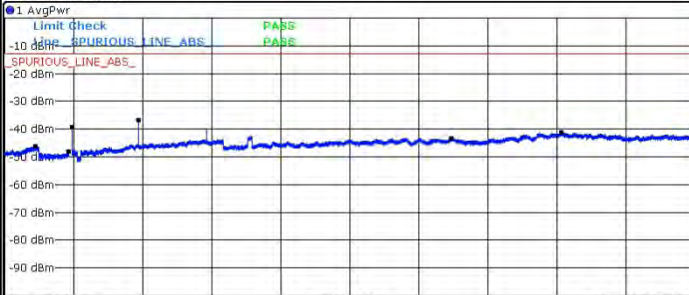


## LTE Band 2 / 5MHz

## Highest Channel / QPSK

## Highest Channel / 16QAM

Spectrum

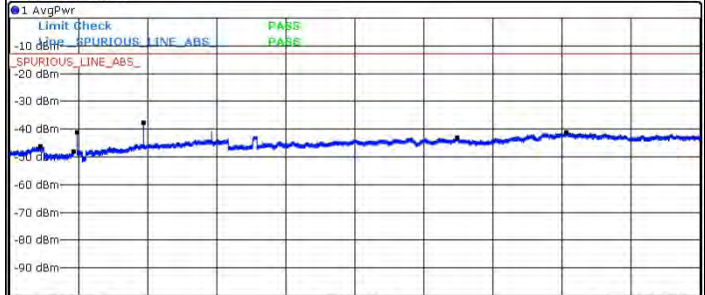
Ref Level 0.00 dBm Offset 5.50 dB Mode Auto Sweep  
SGL Count 100/100

Spurious Emissions

| Range Low  | Range Up   | RBW       | Frequency     | Power Abs  | ΔLimit    |
|------------|------------|-----------|---------------|------------|-----------|
| 30.000 MHz | 1.000 GHz  | 1.000 MHz | 894.38531 MHz | -46.31 dBm | -33.31 dB |
| 1.000 GHz  | 1.840 GHz  | 1.000 MHz | 1.83727 GHz   | -48.16 dBm | -35.16 dB |
| 1.920 GHz  | 3.000 GHz  | 1.000 MHz | 1.92450 GHz   | -39.22 dBm | -26.22 dB |
| 3.000 GHz  | 9.000 GHz  | 1.000 MHz | 3.81068 GHz   | -36.66 dBm | -23.66 dB |
| 9.000 GHz  | 13.000 GHz | 1.000 MHz | 12.61730 GHz  | -43.28 dBm | -30.28 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.71704 GHz  | -41.19 dBm | -28.19 dB |

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Spectrum

Ref Level 0.00 dBm Offset 5.50 dB Mode Auto Sweep  
SGL Count 100/100

Spurious Emissions

| Range Low  | Range Up   | RBW       | Frequency     | Power Abs  | ΔLimit    |
|------------|------------|-----------|---------------|------------|-----------|
| 30.000 MHz | 1.000 GHz  | 1.000 MHz | 894.56522 MHz | -46.19 dBm | -33.19 dB |
| 1.000 GHz  | 1.840 GHz  | 1.000 MHz | 1.83559 GHz   | -48.27 dBm | -35.27 dB |
| 1.920 GHz  | 3.000 GHz  | 1.000 MHz | 1.92450 GHz   | -41.24 dBm | -28.24 dB |
| 3.000 GHz  | 9.000 GHz  | 1.000 MHz | 3.81068 GHz   | -37.77 dBm | -24.77 dB |
| 9.000 GHz  | 13.000 GHz | 1.000 MHz | 12.65429 GHz  | -43.00 dBm | -30.00 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.72254 GHz  | -41.14 dBm | -28.14 dB |

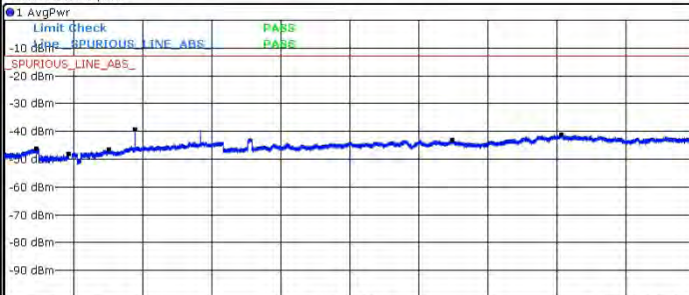
Date: 11 JUN 2015 21:04:02

## LTE Band 2 / 10MHz

## Lowest Channel / QPSK

## Lowest Channel / 16QAM

Spectrum

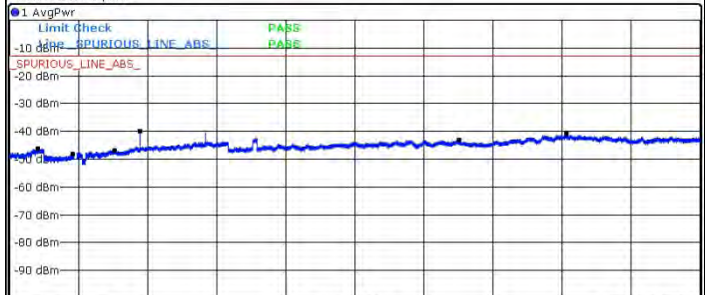
Ref Level 0.00 dBm Offset 5.50 dB Mode Auto Sweep  
SGL Count 100/100

Spurious Emissions

| Range Low  | Range Up   | RBW       | Frequency     | Power Abs  | ΔLimit    |
|------------|------------|-----------|---------------|------------|-----------|
| 30.000 MHz | 1.000 GHz  | 1.000 MHz | 908.62319 MHz | -46.38 dBm | -33.38 dB |
| 1.000 GHz  | 1.840 GHz  | 1.000 MHz | 1.83895 GHz   | -48.17 dBm | -35.17 dB |
| 1.920 GHz  | 3.000 GHz  | 1.000 MHz | 2.95951 GHz   | -46.53 dBm | -33.53 dB |
| 3.000 GHz  | 9.000 GHz  | 1.000 MHz | 3.70119 GHz   | -39.24 dBm | -26.24 dB |
| 9.000 GHz  | 13.000 GHz | 1.000 MHz | 12.64879 GHz  | -43.12 dBm | -30.12 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.72804 GHz  | -41.07 dBm | -28.07 dB |

Date: 11 JUN 2015 21:06:04

Spectrum

Ref Level 0.00 dBm Offset 5.50 dB Mode Auto Sweep  
SGL Count 100/100

Spurious Emissions

| Range Low  | Range Up   | RBW       | Frequency     | Power Abs  | ΔLimit    |
|------------|------------|-----------|---------------|------------|-----------|
| 30.000 MHz | 1.000 GHz  | 1.000 MHz | 829.60770 MHz | -46.32 dBm | -33.32 dB |
| 1.000 GHz  | 1.840 GHz  | 1.000 MHz | 1.79907 GHz   | -48.12 dBm | -35.12 dB |
| 1.920 GHz  | 3.000 GHz  | 1.000 MHz | 2.98542 GHz   | -46.80 dBm | -33.80 dB |
| 3.000 GHz  | 9.000 GHz  | 1.000 MHz | 3.70119 GHz   | -39.83 dBm | -26.83 dB |
| 9.000 GHz  | 13.000 GHz | 1.000 MHz | 12.70729 GHz  | -43.12 dBm | -30.12 dB |
| 13.000 GHz | 19.500 GHz | 1.000 MHz | 15.73354 GHz  | -40.99 dBm | -27.99 dB |

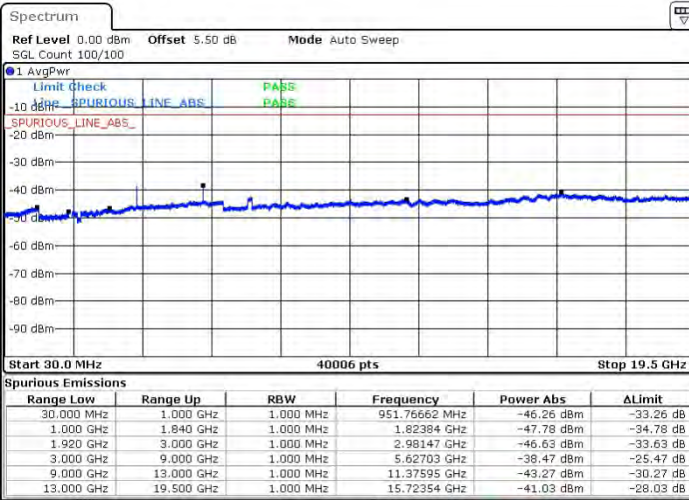
Date: 11 JUN 2015 21:07:23



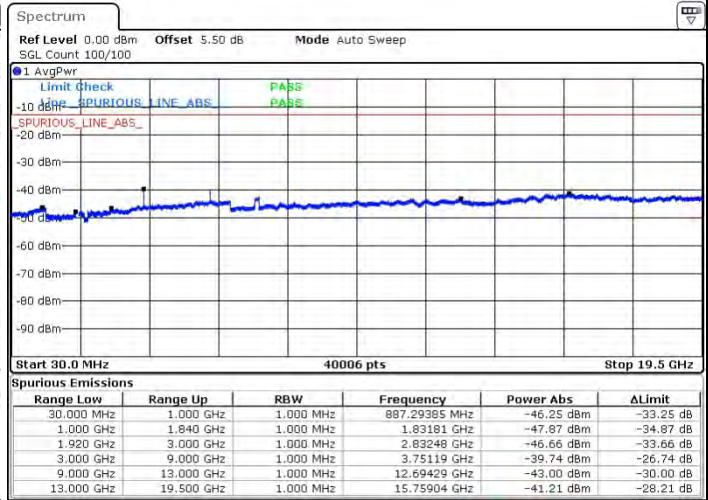
## LTE Band 2 / 10MHz

## Middle Channel / QPSK

## Middle Channel / 16QAM



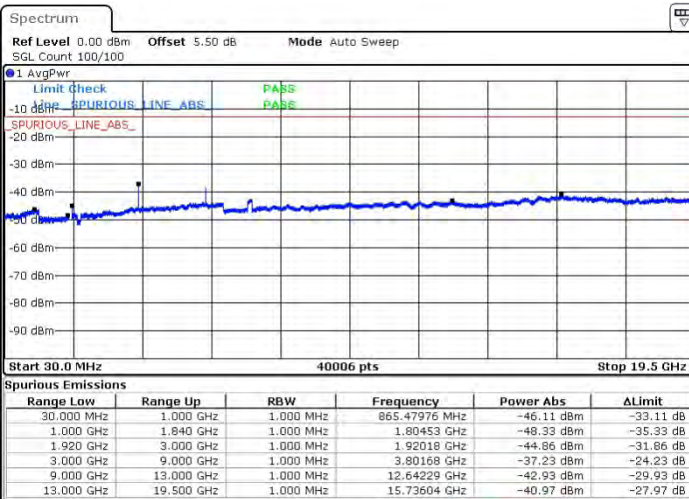
Date: 11 JUN 2015 21:09:25



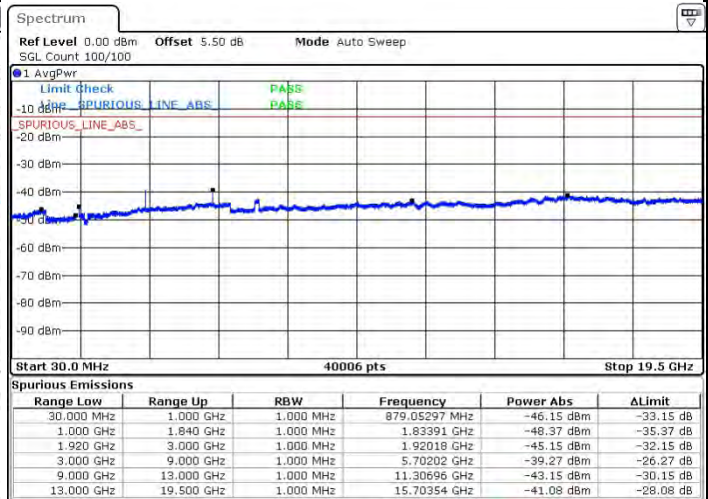
Date: 11 JUN 2015 21:10:43

## Highest Channel / QPSK

## Highest Channel / 16QAM



Date: 11 JUN 2015 21:12:45



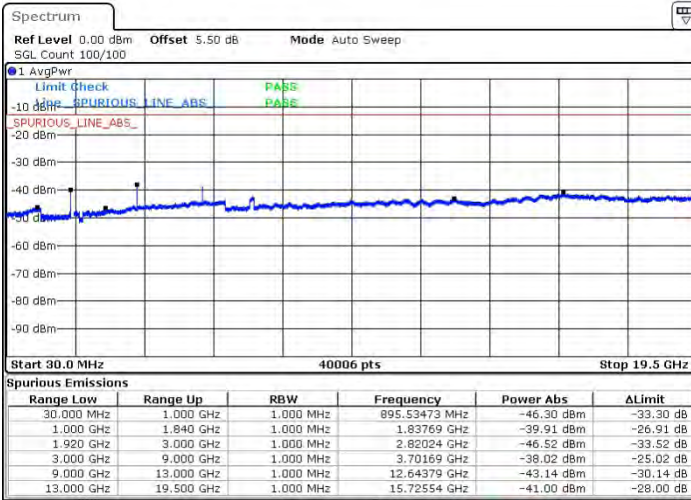
Date: 11 JUN 2015 21:14:03



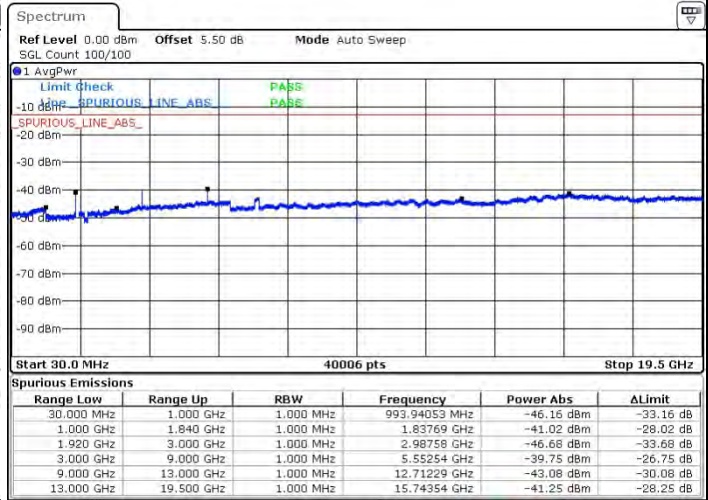
## LTE Band 2 / 15MHz

## Lowest Channel / QPSK

## Lowest Channel / 16QAM



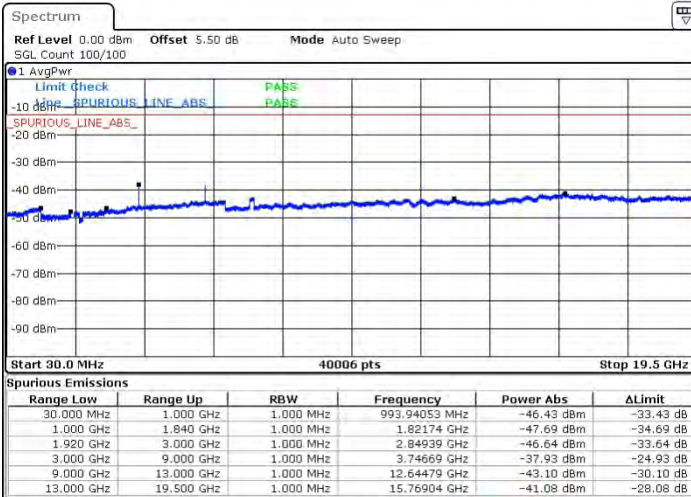
Date: 11 JUN 2015 21:16:05



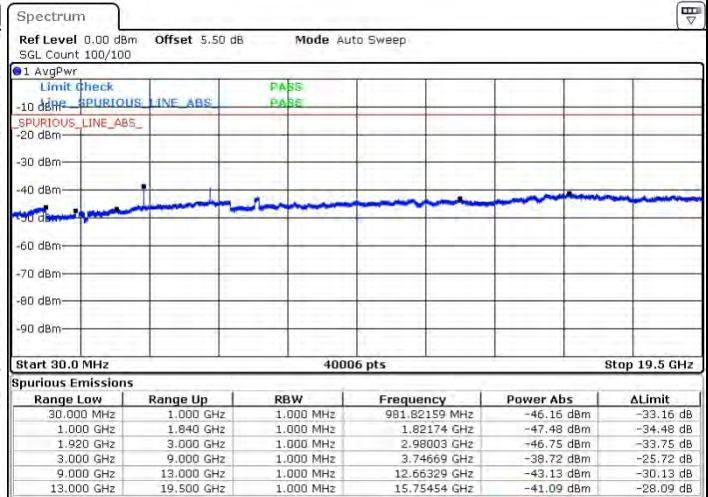
Date: 11 JUN 2015 21:17:23

## Middle Channel / QPSK

## Middle Channel / 16QAM



Date: 11 JUN 2015 21:19:28



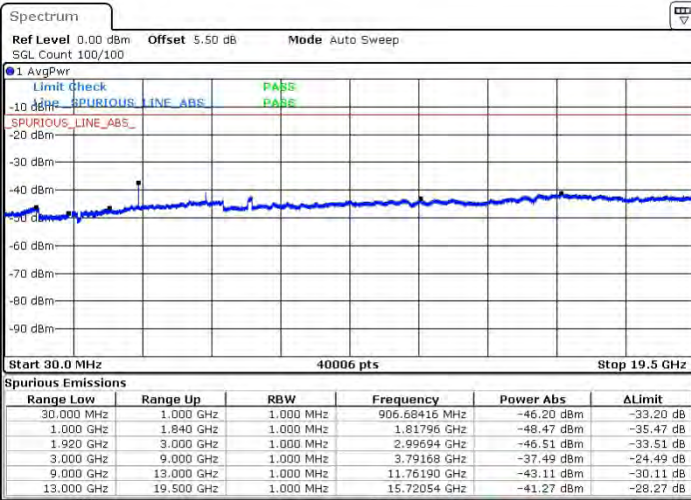
Date: 11 JUN 2015 21:20:47



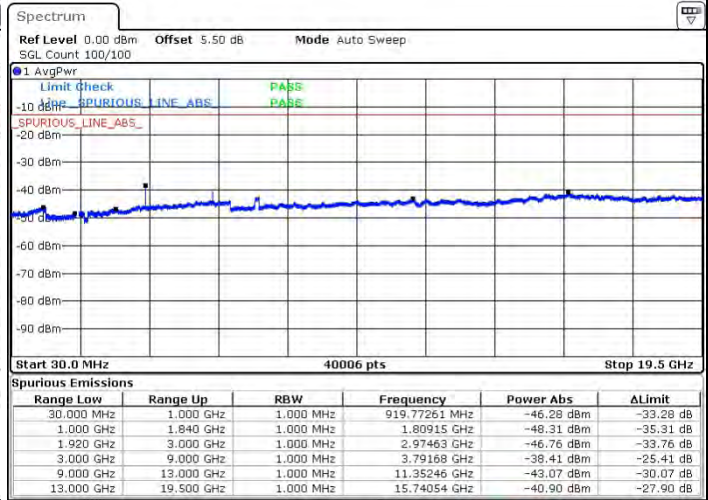
## LTE Band 2 / 15MHz

## Highest Channel / QPSK

## Highest Channel / 16QAM



Date: 11 JUN 2015 21:22:49

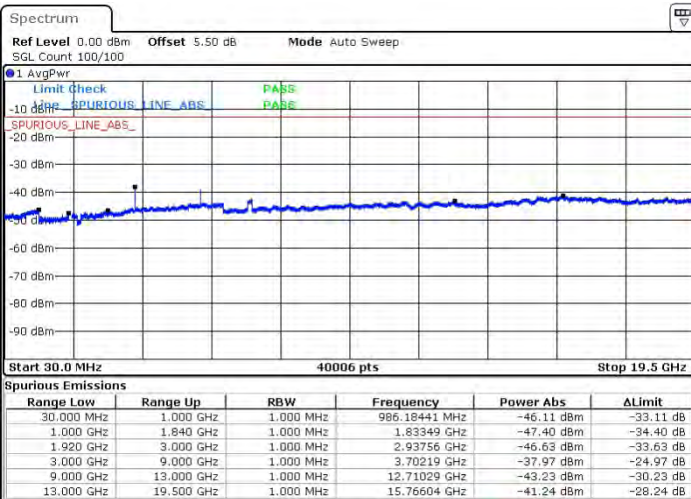


Date: 11 JUN 2015 21:24:07

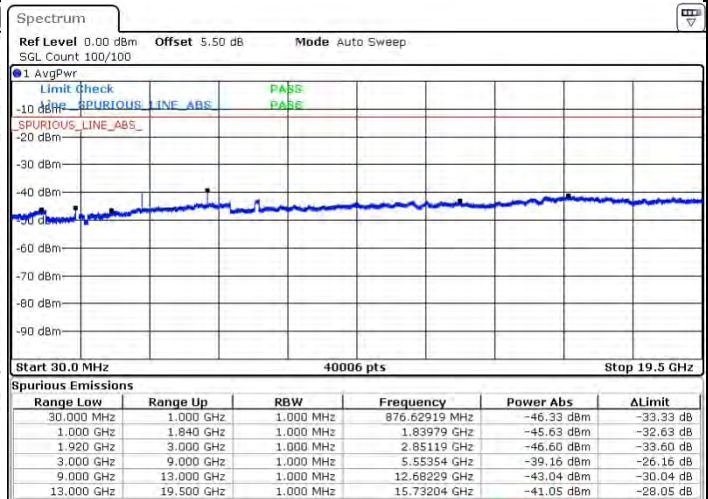
## LTE Band 2 / 20MHz

## Lowest Channel / QPSK

## Lowest Channel / 16QAM



Date: 11 JUN 2015 21:26:10



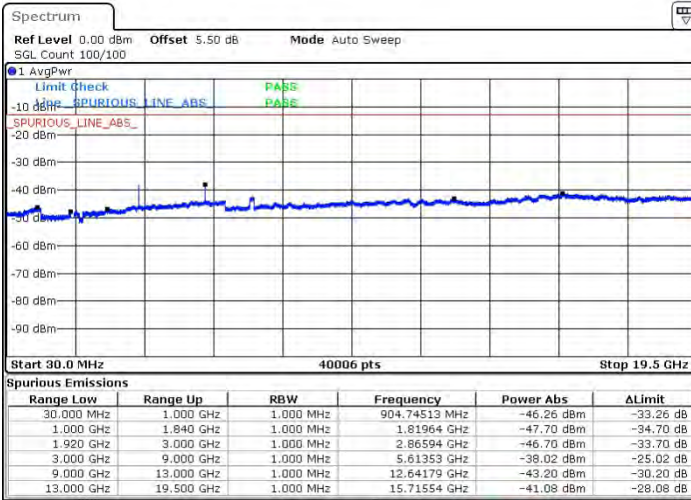
Date: 11 JUN 2015 21:27:28



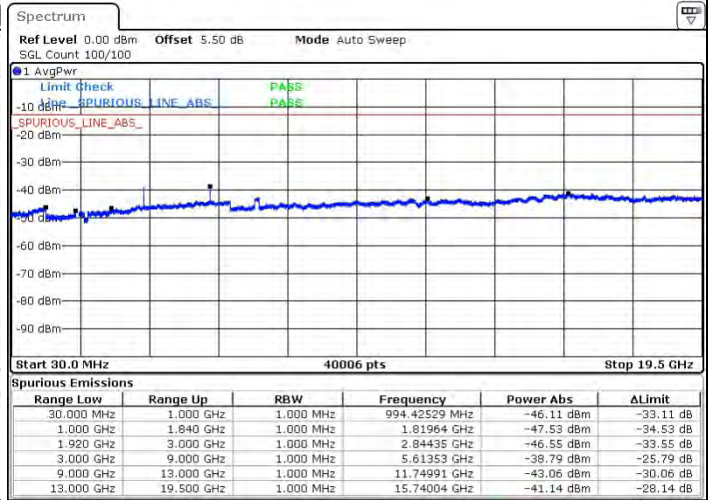
## LTE Band 2 / 20MHz

## Middle Channel / QPSK

## Middle Channel / 16QAM



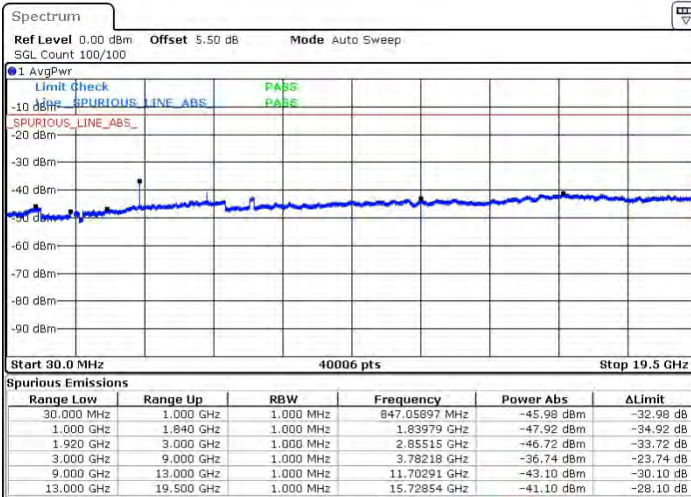
Date: 11 JUN 2015 21:29:30



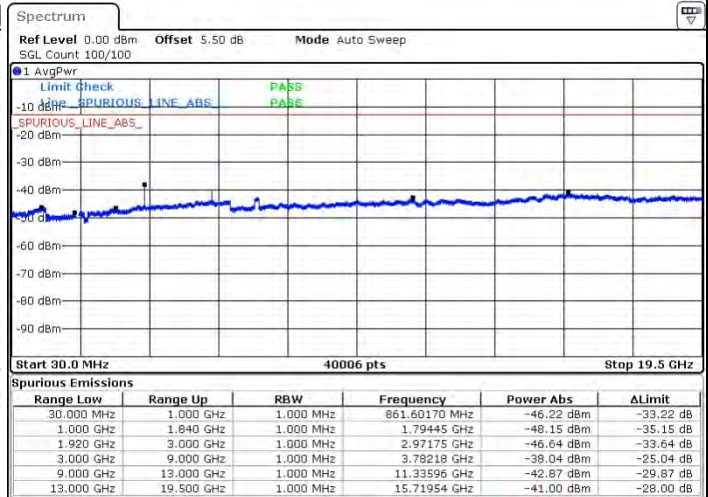
Date: 11 JUN 2015 21:30:49

## Highest Channel / QPSK

## Highest Channel / 16QAM



Date: 11 JUN 2015 21:32:51



Date: 11 JUN 2015 21:34:09

**Frequency Stability**

| Test Conditions  |                   | LTE Band 2 (QPSK) / Middle Channel | Limit   |
|------------------|-------------------|------------------------------------|---------|
| Temperature (°C) | Voltage (Volt)    | BW 10MHz                           | Note 2. |
|                  |                   | Deviation (ppm)                    | Result  |
| 50               | Normal Voltage    | 0.0006                             | PASS    |
| 40               | Normal Voltage    | 0.0010                             |         |
| 30               | Normal Voltage    | 0.0004                             |         |
| 20(Ref.)         | Normal Voltage    | 0.0000                             |         |
| 10               | Normal Voltage    | 0.0003                             |         |
| 0                | Normal Voltage    | 0.0011                             |         |
| -10              | Normal Voltage    | 0.0002                             |         |
| -20              | Normal Voltage    | 0.0007                             |         |
| -30              | Normal Voltage    | 0.0003                             |         |
| 20               | Maximum Voltage   | 0.0018                             |         |
| 20               | Normal Voltage    | 0.0013                             |         |
| 20               | Battery End Point | 0.0023                             |         |

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.