



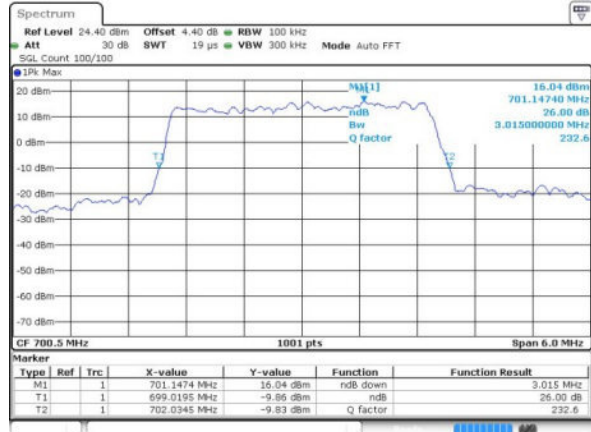
## LTE Band 12

## Lowest Channel / 3MHz / QPSK



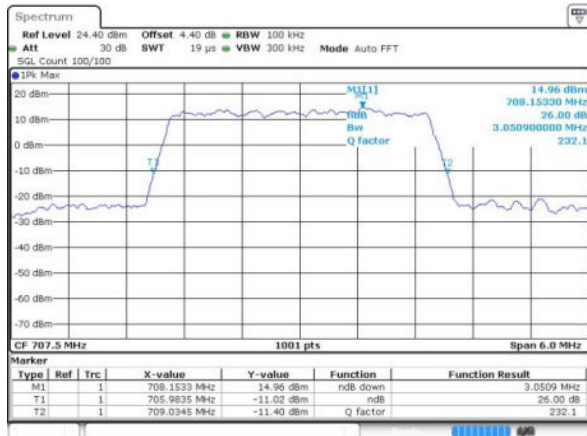
Date: 9 MAR 2016 15:12:15

## Lowest Channel / 3MHz / 16QAM



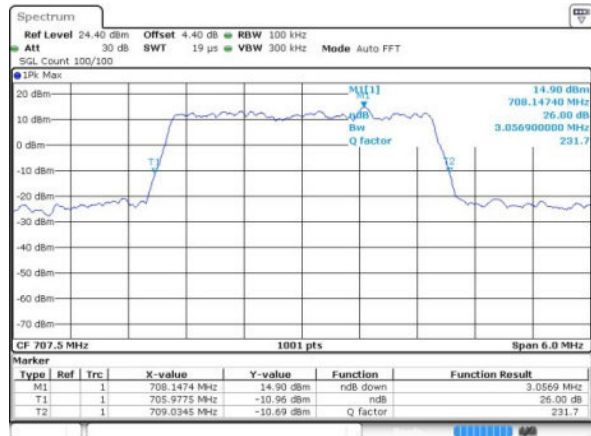
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## Middle Channel / 3MHz / QPSK



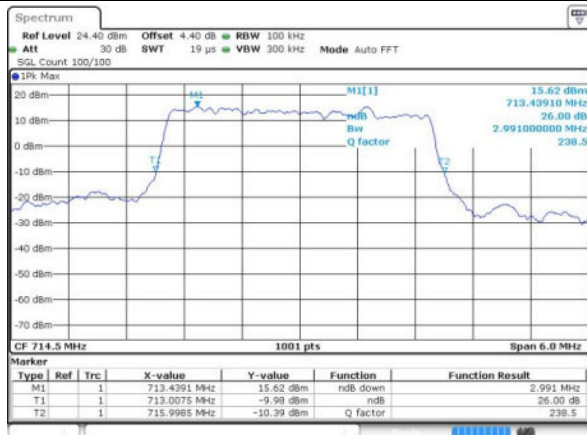
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## Middle Channel / 3MHz / 16QAM



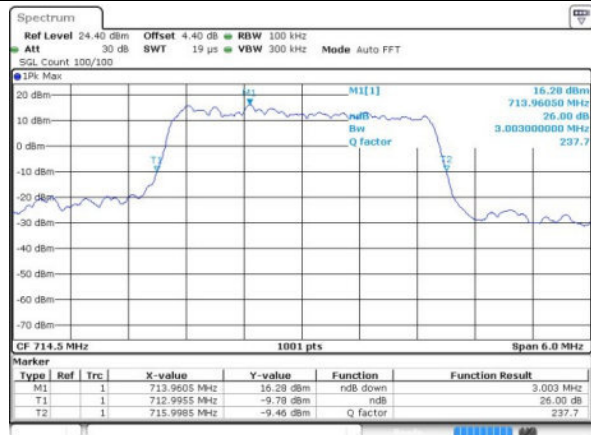
Date: 9 MAR 2016 15:13:34

## Highest Channel / 3MHz / QPSK



Date: 9 MAR 2016 15:14:39

## Highest Channel / 3MHz / 16QAM

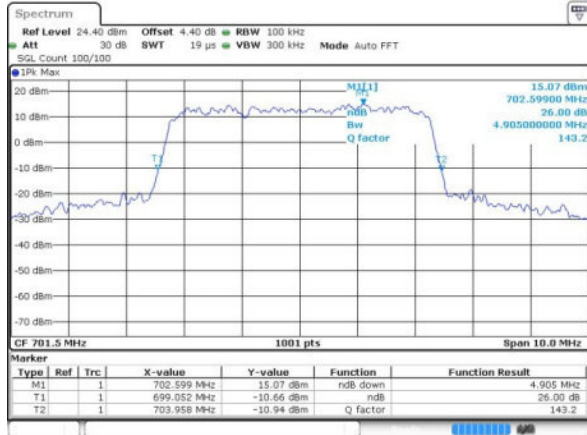


Date: 9 MAR 2016 15:15:10

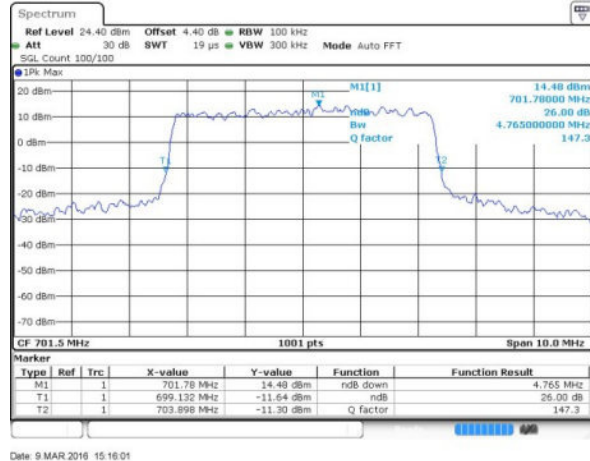


## LTE Band 12

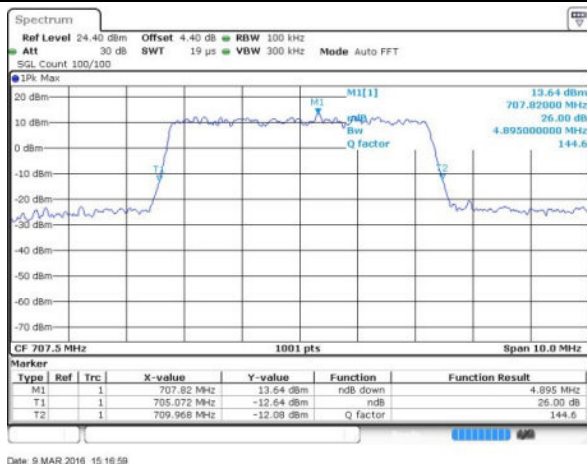
## Lowest Channel / 5MHz / QPSK



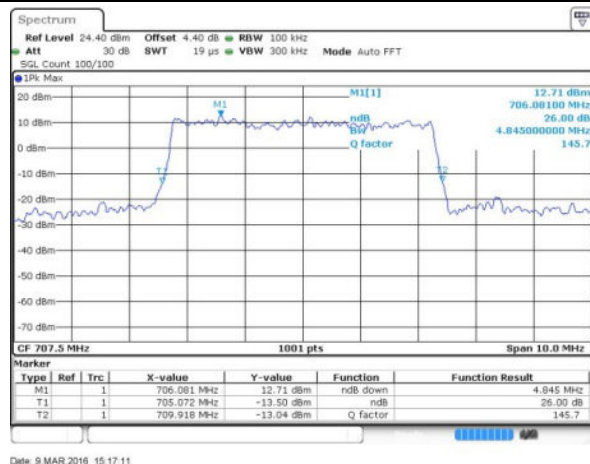
## Lowest Channel / 5MHz / 16QAM



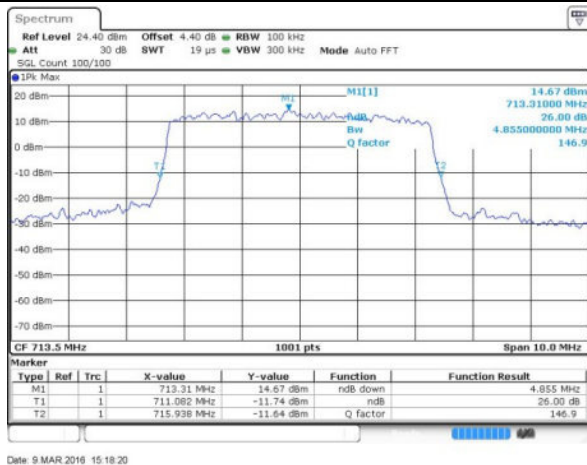
## Middle Channel / 5MHz / QPSK



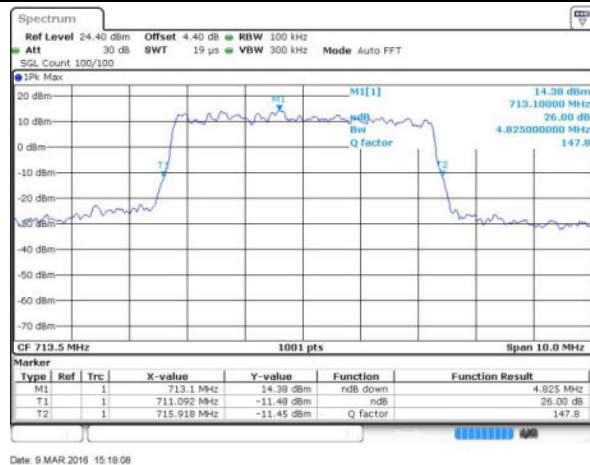
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



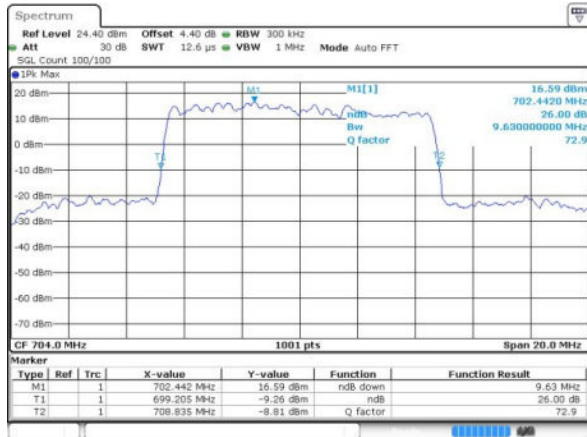
## Highest Channel / 5MHz / 16QAM



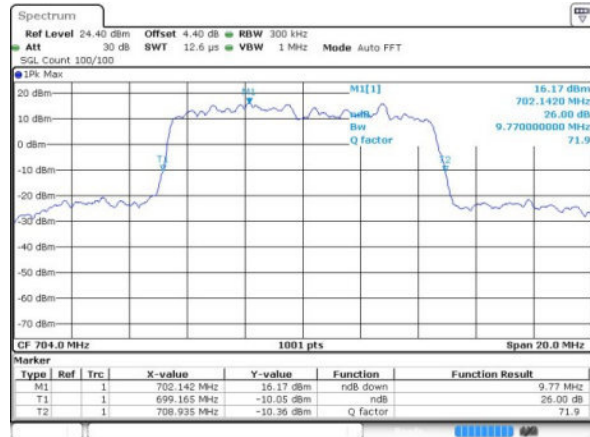


## LTE Band 12

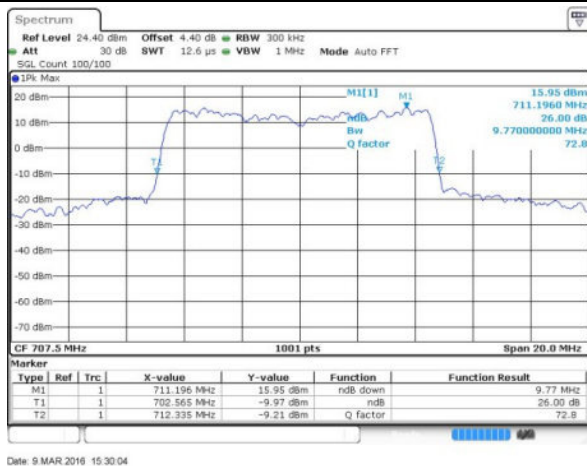
## Lowest Channel / 10MHz / QPSK



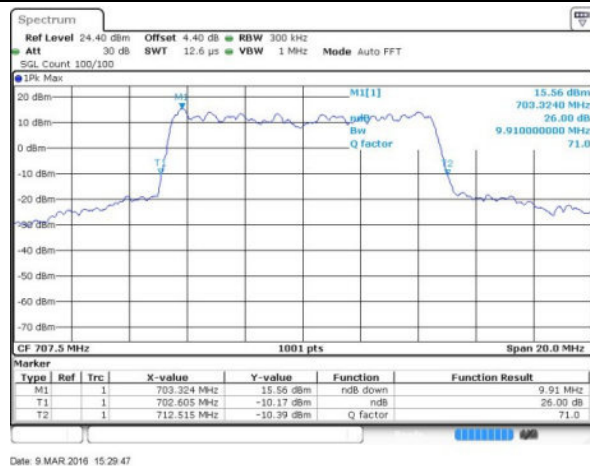
## Lowest Channel / 10MHz / 16QAM



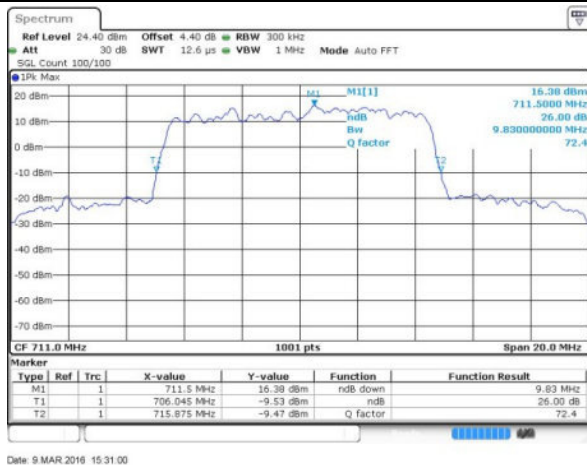
## Middle Channel / 10MHz / QPSK



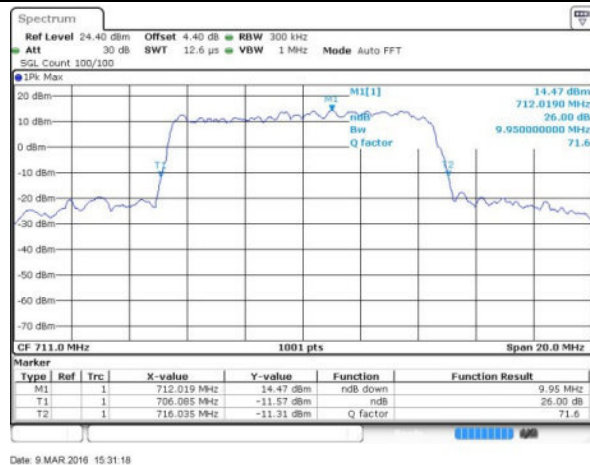
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



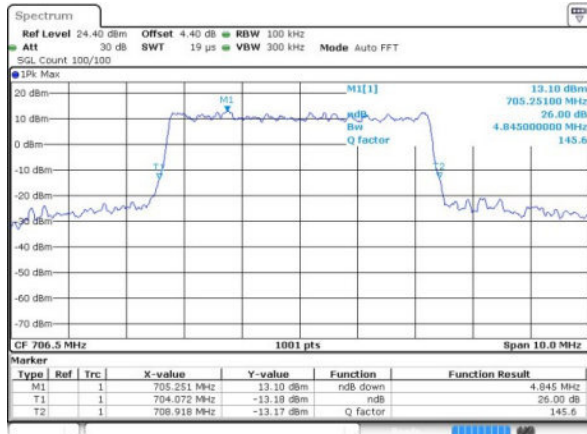
## Highest Channel / 10MHz / 16QAM





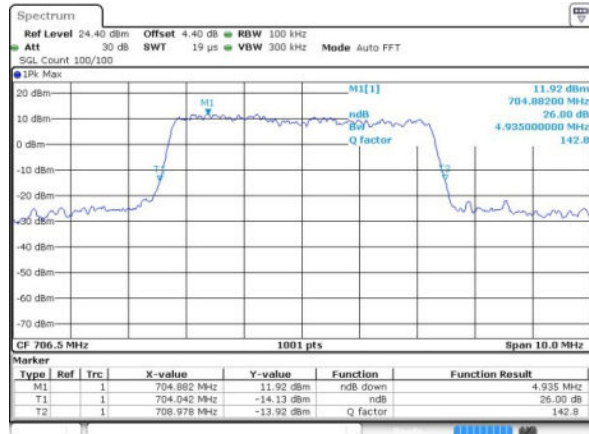
## LTE Band 17

## Lowest Channel / 5MHz / QPSK



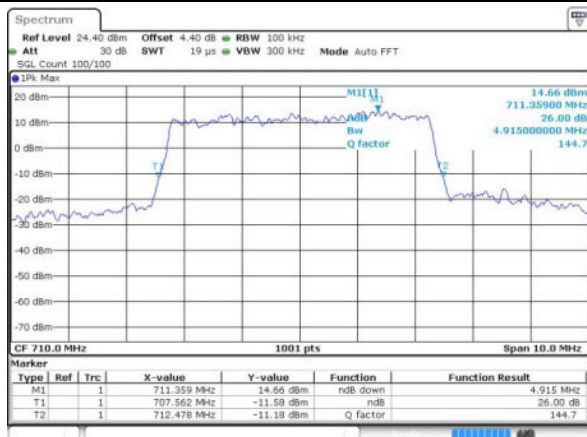
Date: 9 MAR 2016 11:15:02

## Lowest Channel / 5MHz / 16QAM



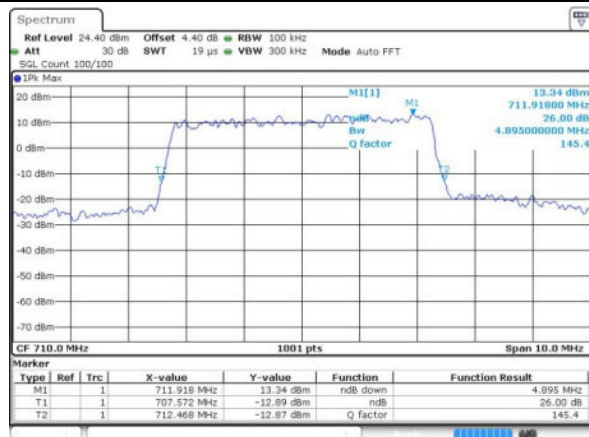
Date: 9 MAR 2016 11:15:12

## Middle Channel / 5MHz / QPSK



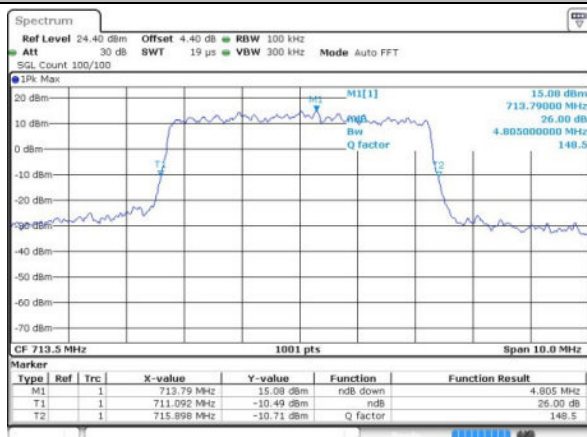
Date: 9 MAR 2016 11:25:39

## Middle Channel / 5MHz / 16QAM



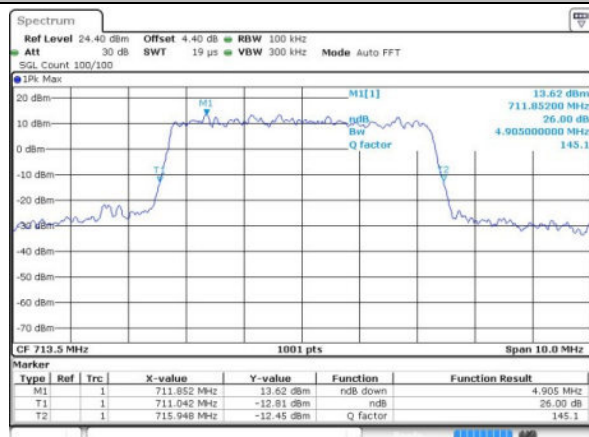
Date: 9 MAR 2016 11:25:49

## Highest Channel / 5MHz / QPSK



Date: 9 MAR 2016 11:28:11

## Highest Channel / 5MHz / 16QAM

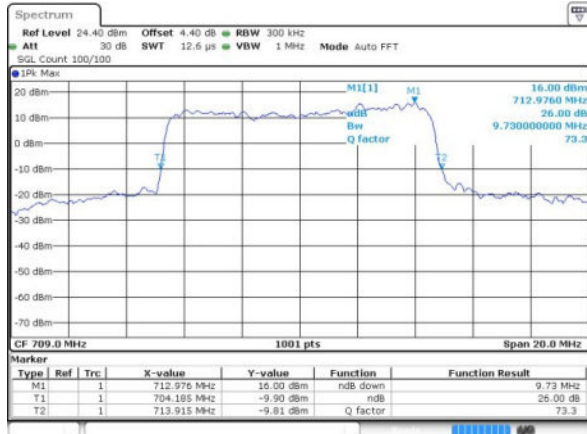


Date: 9 MAR 2016 11:28:21



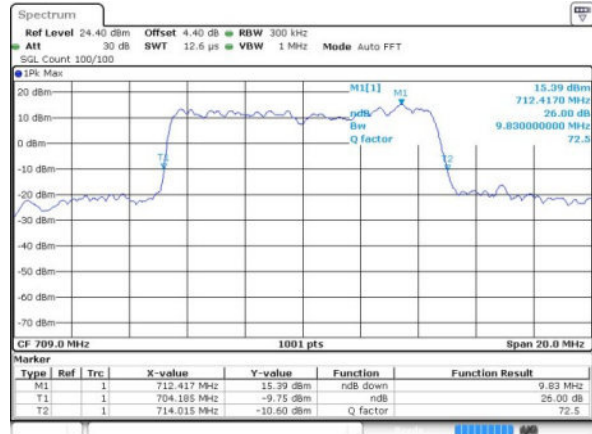
## LTE Band 17

## Lowest Channel / 10MHz / QPSK



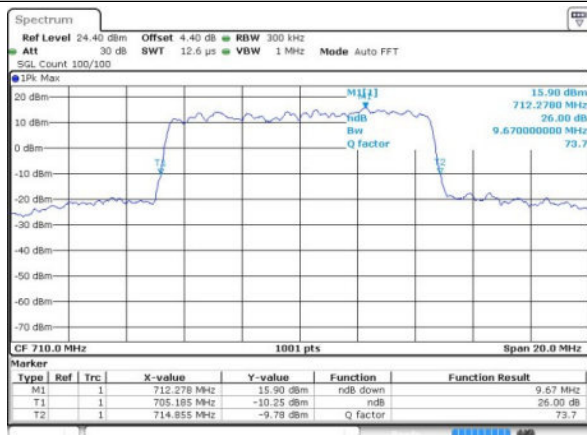
Date: 9 MAR 2016 11:38:47

## Lowest Channel / 10MHz / 16QAM



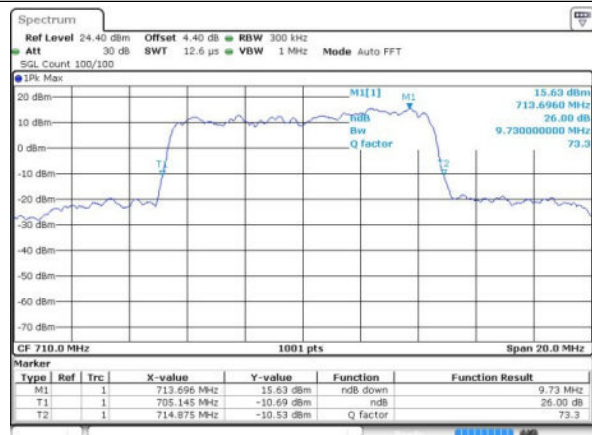
Date: 9 MAR 2016 11:38:58

## Middle Channel / 10MHz / QPSK



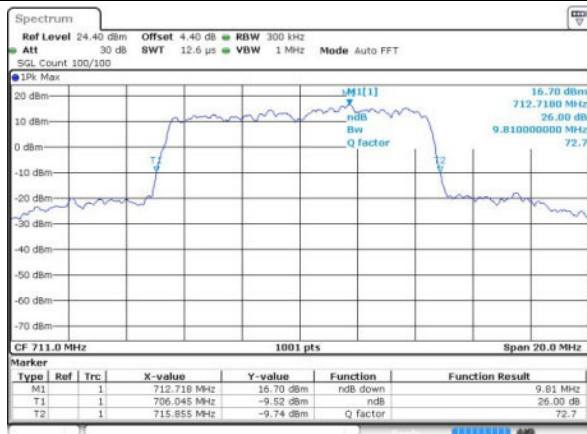
Date: 9 MAR 2016 11:49:24

## Middle Channel / 10MHz / 16QAM



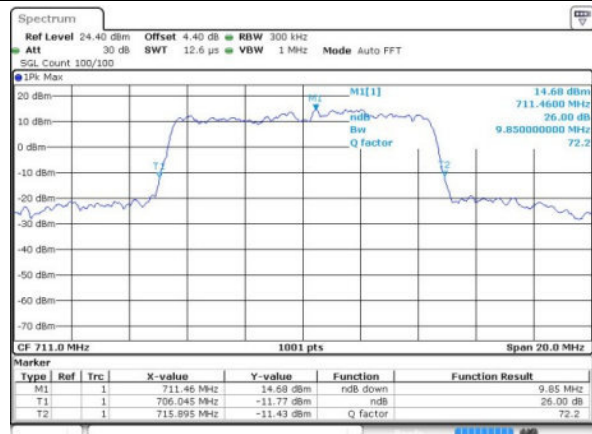
Date: 9 MAR 2016 11:49:35

## Highest Channel / 10MHz / QPSK



Date: 9 MAR 2016 11:51:56

## Highest Channel / 10MHz / 16QAM



Date: 9 MAR 2016 11:52:07

**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                     | 1.09  | 2.72 | 2.72  | 4.51 | 4.51  | 9.09  | 9.01  | 13.43 | 13.49 | 18.34 | 18.30 |
| Middle CH  | 1.10                     | 1.09  | 2.73 | 2.73  | 4.52 | 4.49  | 9.07  | 9.03  | 13.49 | 13.37 | 18.42 | 18.38 |
| Highest CH | 1.09                     | 1.09  | 2.73 | 2.72  | 4.51 | 4.50  | 9.09  | 9.11  | 13.49 | 13.52 | 18.46 | 18.46 |

| Mode       | LTE Band 4 : 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  | 1.08                     | 1.08  | 2.72 | 2.72  | 4.49 | 4.50  | 9.05  | 9.03  | 13.49 | 13.46 | 18.46 | 18.50 |
| Middle CH  | 1.09                     | 1.10  | 2.72 | 2.70  | 4.49 | 4.50  | 8.99  | 8.99  | 13.40 | 13.40 | 18.14 | 18.18 |
| Highest CH | 1.09                     | 1.09  | 2.72 | 2.72  | 4.50 | 4.50  | 8.99  | 9.03  | 13.46 | 13.55 | 18.42 | 18.50 |

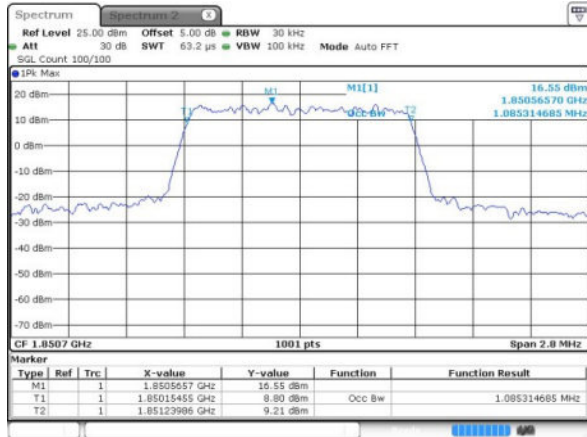
| Mode       | LTE Band 5 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.08                     | 1.09  | 2.71 | 2.72  | 4.48 | 4.50  | 9.05  | 9.07  | -     | -     | -     | -     |
| Middle CH  | 1.09                     | 1.09  | 2.70 | 2.72  | 4.49 | 4.49  | 8.95  | 8.99  | -     | -     | -     | -     |
| Highest CH | 1.09                     | 1.09  | 2.73 | 2.73  | 4.49 | 4.49  | 9.09  | 9.09  | -     | -     | -     | -     |



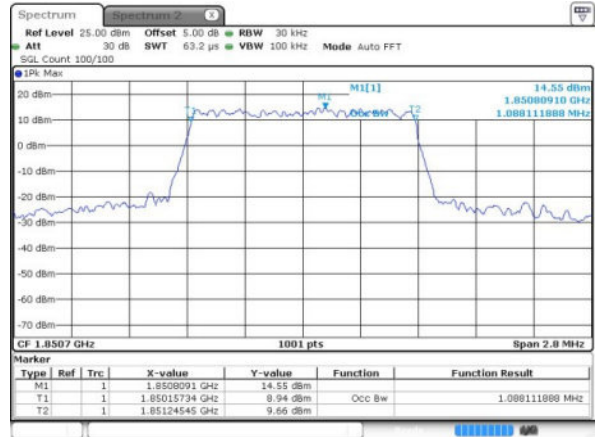
| Mode       | LTE Band 7 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                        | -     | -    | -     | 4.52 | 4.51  | 9.03  | 9.01  | 13.49 | 13.46 | 18.50 | 18.38 |
| Middle CH  | -                        | -     | -    | -     | 4.49 | 4.51  | 9.11  | 9.05  | 13.46 | 13.46 | 18.38 | 18.42 |
| Highest CH | -                        | -     | -    | -     | 4.50 | 4.48  | 9.03  | 9.01  | 13.46 | 13.46 | 18.34 | 18.26 |

| Mode       | LTE Band 12 : 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  | 2.72 | 2.71  | 4.50 | 4.48  | 8.99  | 9.01  | -     | -     | -     | -     |
| Middle CH  | 1.10                      | 1.09  | 2.72 | 2.73  | 4.49 | 4.49  | 9.13  | 9.09  | -     | -     | -     | -     |
| Highest CH | 1.09                      | 1.09  | 2.72 | 2.70  | 4.47 | 4.47  | 8.99  | 9.01  | -     | -     | -     | -     |

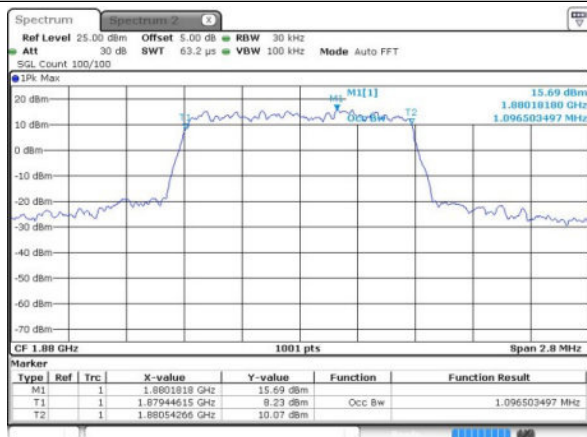
| Mode       | LTE Band 17 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                         | -     | -    | -     | 4.50 | 4.51  | 9.05  | 9.07  | -     | -     | -     | -     |
| Middle CH  | -                         | -     | -    | -     | 4.51 | 4.50  | 9.01  | 9.01  | -     | -     | -     | -     |
| Highest CH | -                         | -     | -    | -     | 4.48 | 4.47  | 9.05  | 9.01  | -     | -     | -     | -     |

**LTE Band 2****Lowest Channel / 1.4MHz / QPSK**

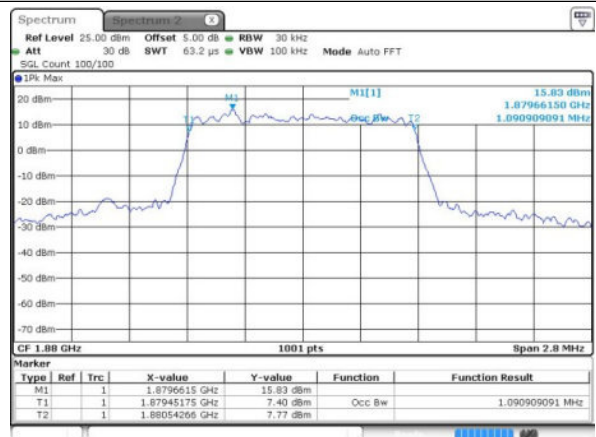
Date: 7 MAR 2016 01:26:47

**Lowest Channel / 1.4MHz / 16QAM**

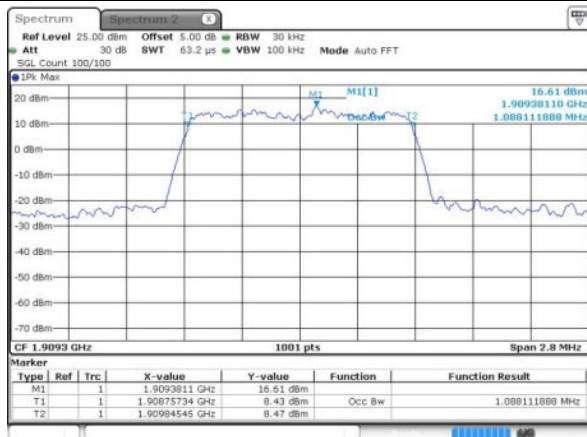
Date: 7 MAR 2016 01:26:58

**Middle Channel / 1.4MHz / QPSK**

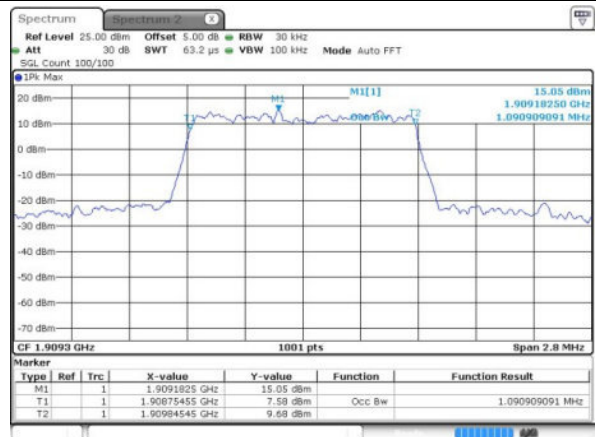
Date: 7 MAR 2016 01:33:53

**Middle Channel / 1.4MHz / 16QAM**

Date: 7 MAR 2016 01:34:03

**Highest Channel / 1.4MHz / QPSK**

Date: 7 MAR 2016 01:36:26

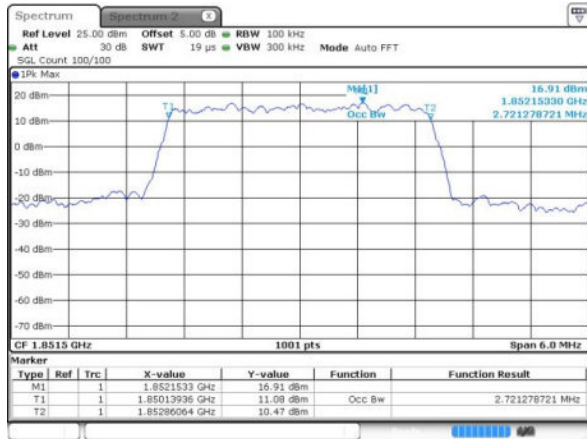
**Highest Channel / 1.4MHz / 16QAM**

Date: 7 MAR 2016 01:36:36

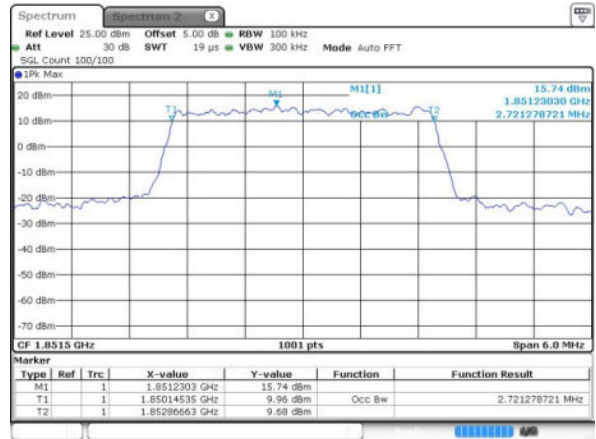


## LTE Band 2

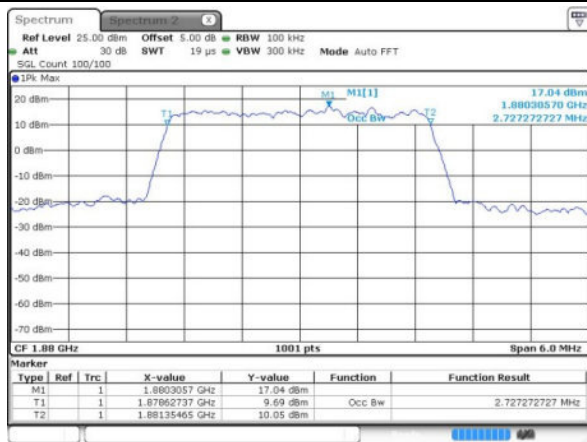
## Lowest Channel / 3MHz / QPSK



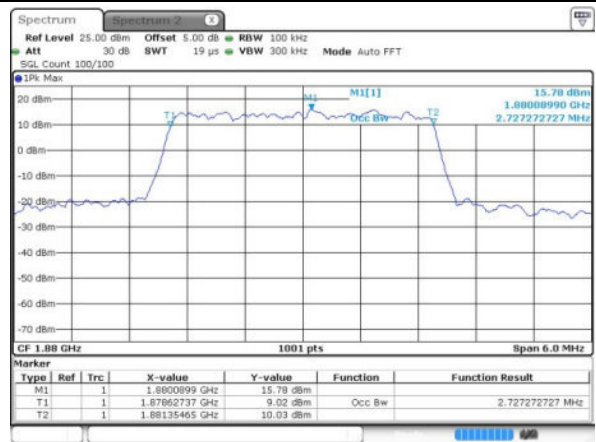
## Lowest Channel / 3MHz / 16QAM



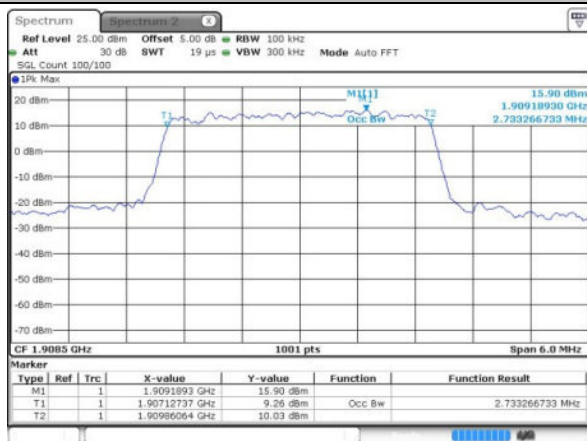
## Middle Channel / 3MHz / QPSK



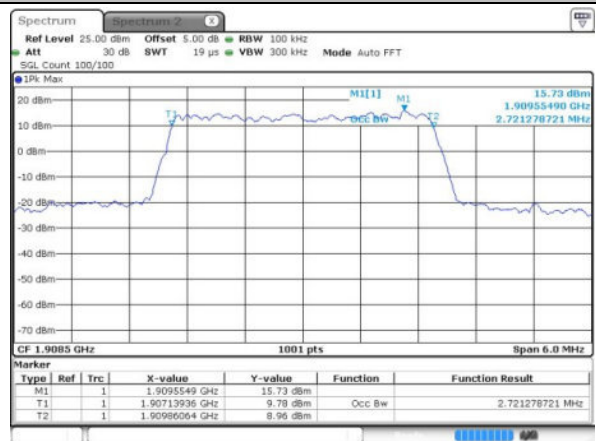
## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



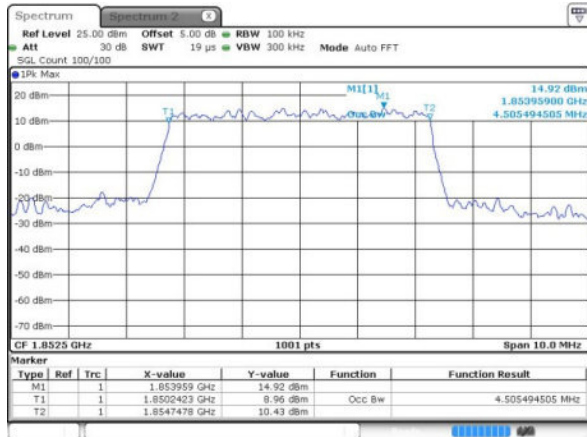
## Highest Channel / 3MHz / 16QAM



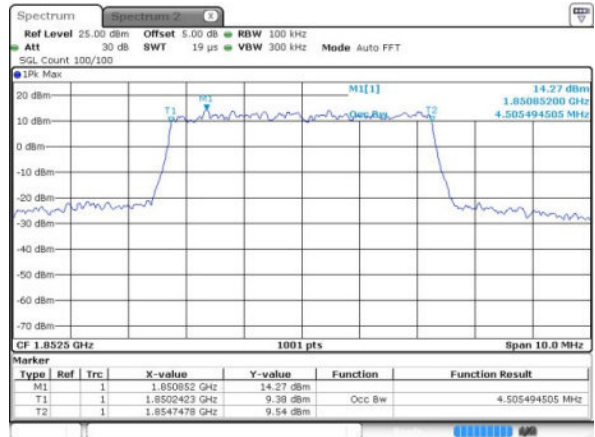


## LTE Band 2

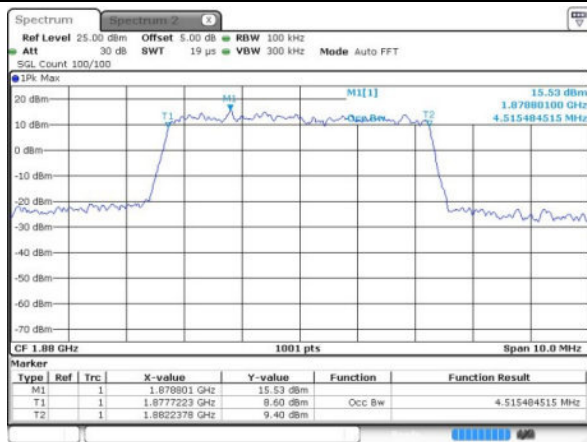
## Lowest Channel / 5MHz / QPSK



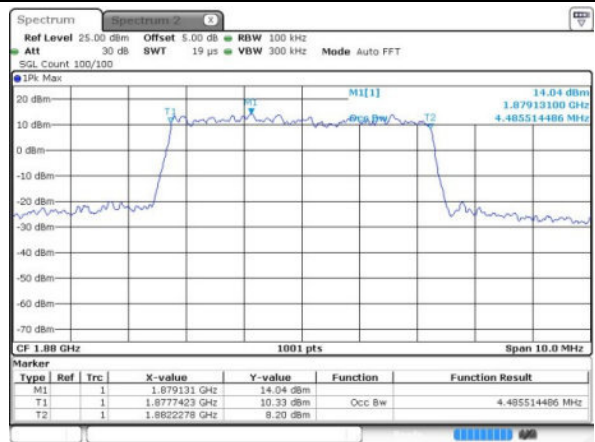
## Lowest Channel / 5MHz / 16QAM



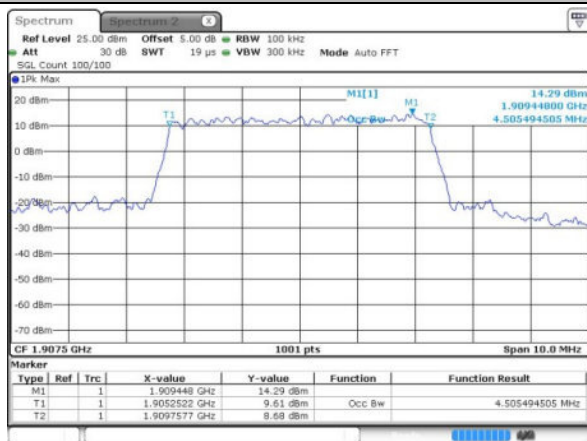
## Middle Channel / 5MHz / QPSK



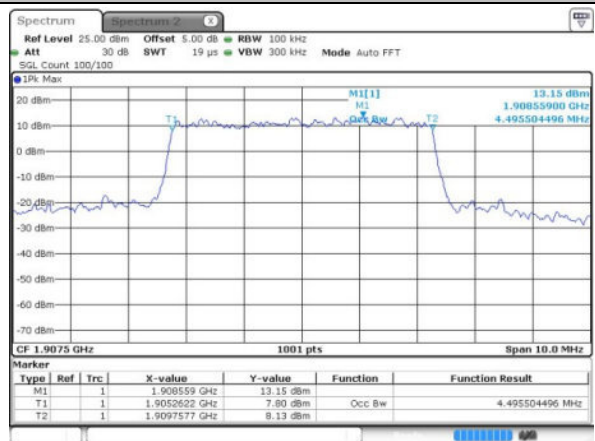
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



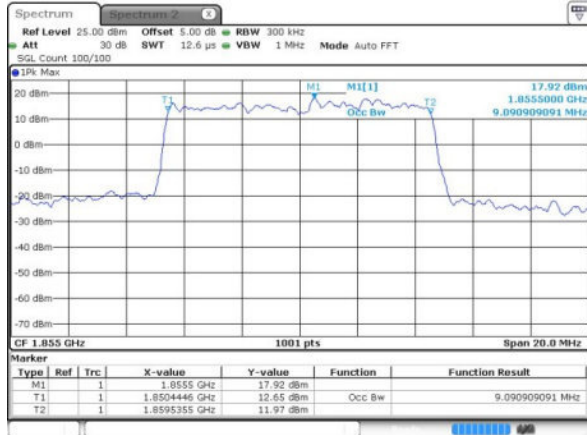
## Highest Channel / 5MHz / 16QAM





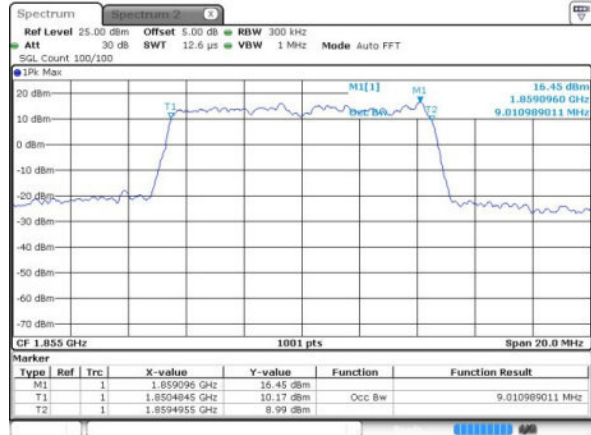
## LTE Band 2

## Lowest Channel / 10MHz / QPSK



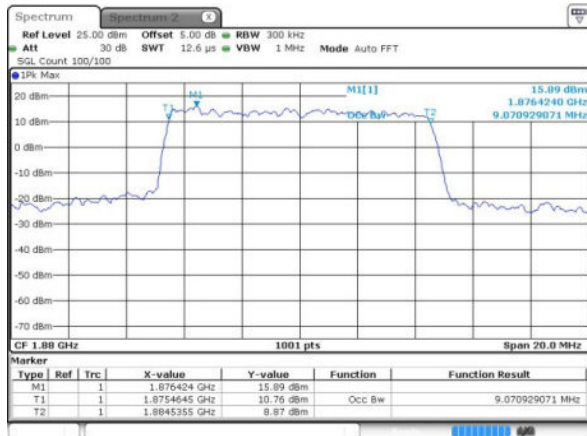
Date: 7 MAR 2016 02:16:56

## Lowest Channel / 10MHz / 16QAM



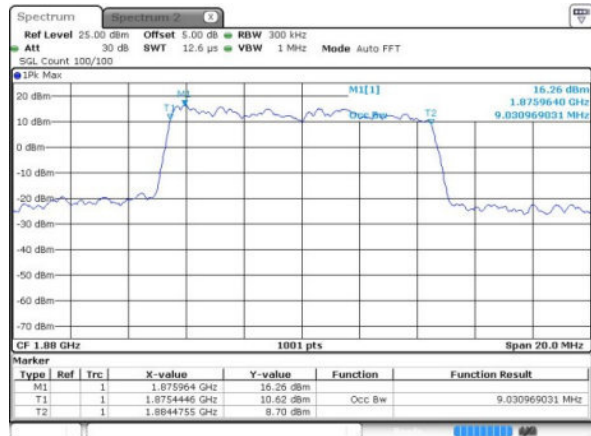
Date: 7 MAR 2016 02:17:06

## Middle Channel / 10MHz / QPSK



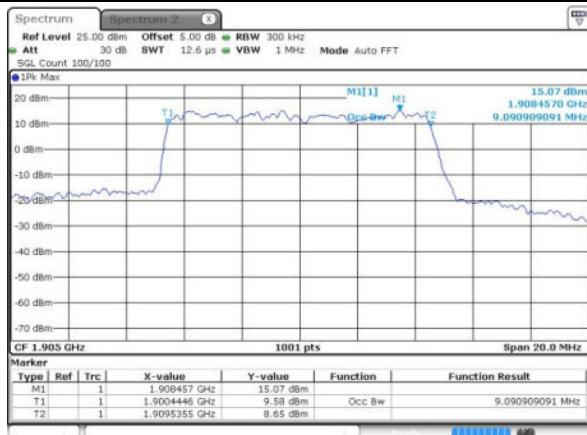
Date: 7 MAR 2016 02:23:59

## Middle Channel / 10MHz / 16QAM



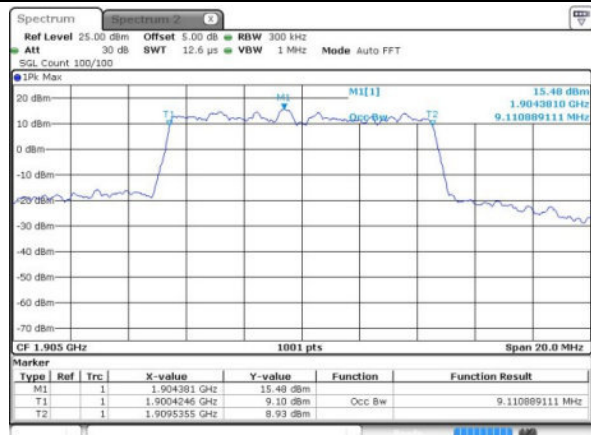
Date: 7 MAR 2016 02:24:10

## Highest Channel / 10MHz / QPSK



Date: 7 MAR 2016 02:26:31

## Highest Channel / 10MHz / 16QAM

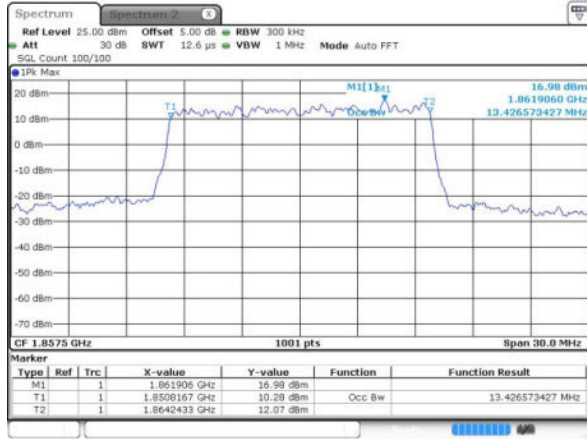


Date: 7 MAR 2016 02:26:42

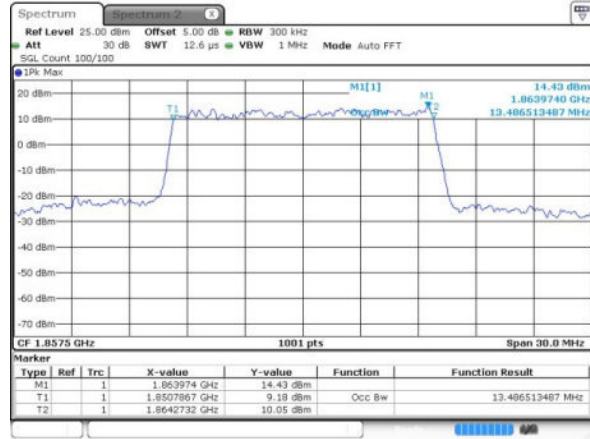


LTE Band 2

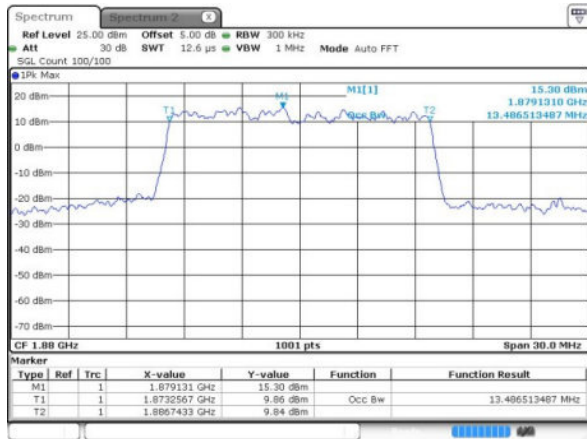
Lowest Channel / 15MHz / QPSK



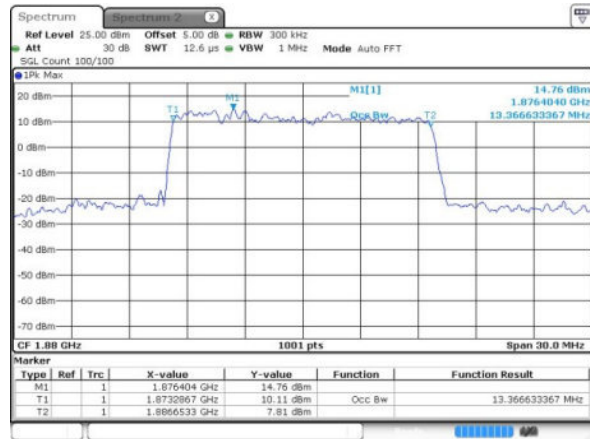
Lowest Channel / 15MHz / 16QAM



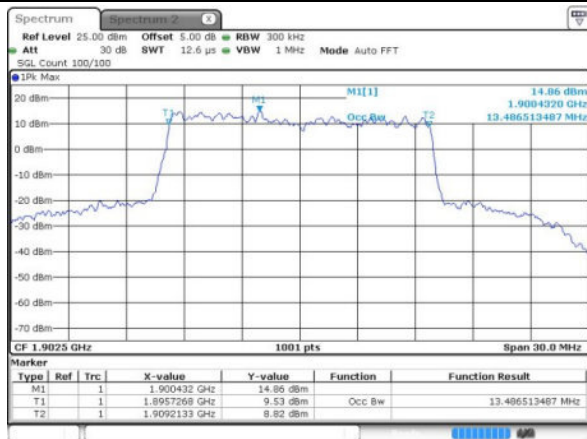
Middle Channel / 15MHz / QPSK



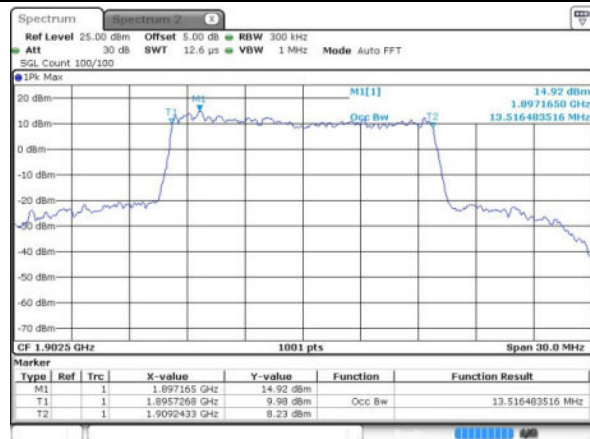
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



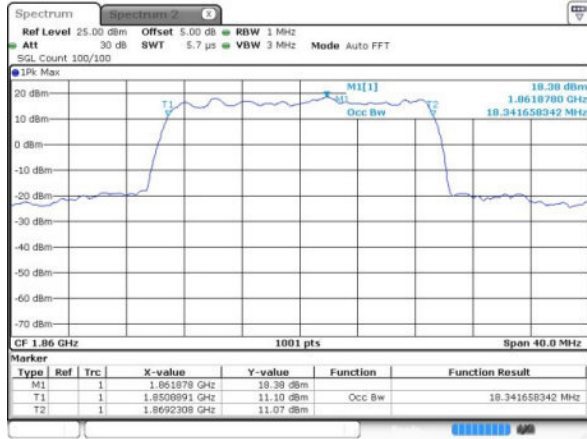
Highest Channel / 15MHz / 16QAM





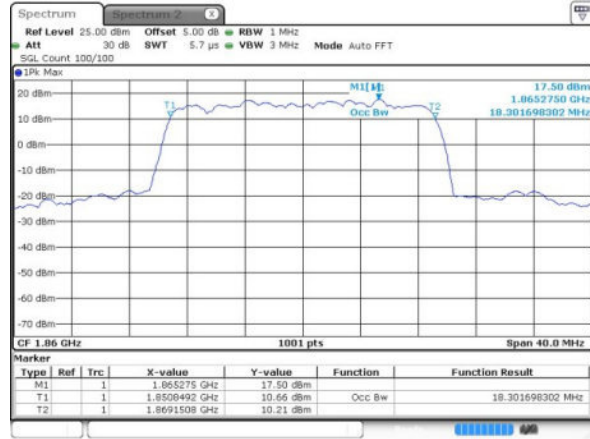
## LTE Band 2

## Lowest Channel / 20MHz / QPSK



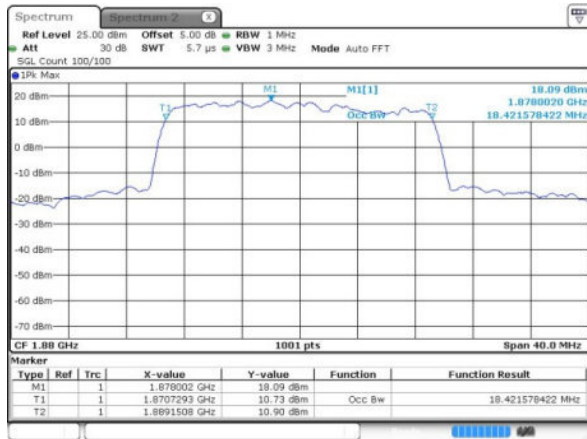
Date: 7 MAR 2016 02:50:16

## Lowest Channel / 20MHz / 16QAM



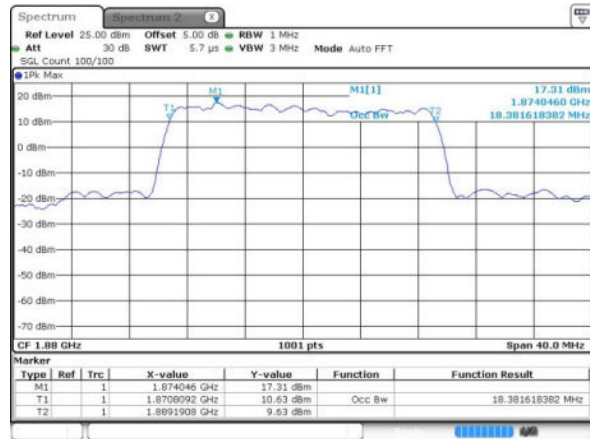
Date: 7 MAR 2016 02:50:26

## Middle Channel / 20MHz / QPSK



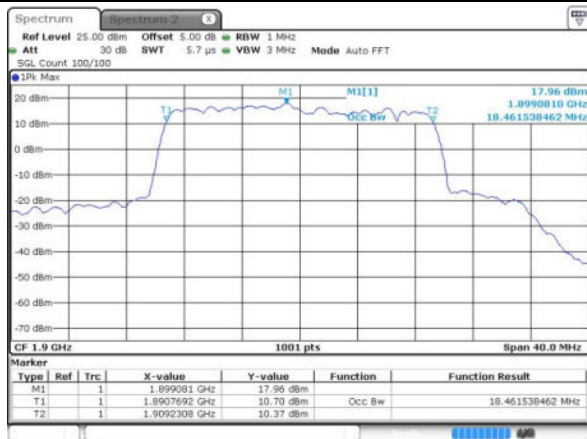
Date: 7 MAR 2016 02:57:20

## Middle Channel / 20MHz / 16QAM



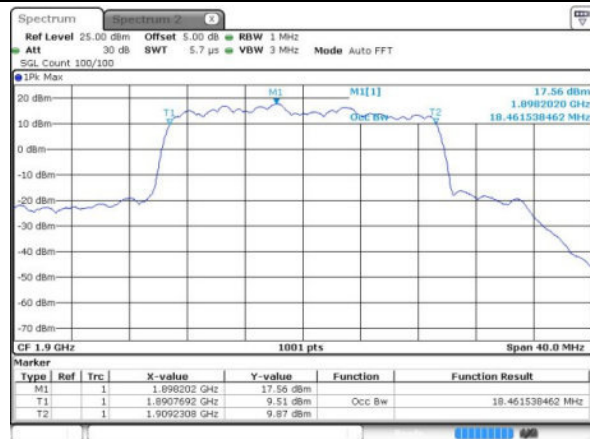
Date: 7 MAR 2016 02:57:31

## Highest Channel / 20MHz / QPSK



Date: 7 MAR 2016 02:59:53

## Highest Channel / 20MHz / 16QAM

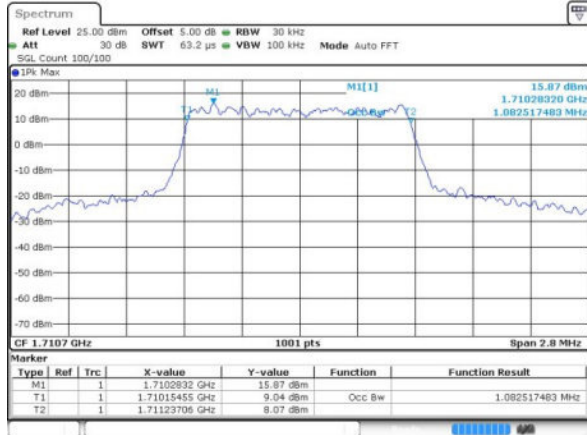


Date: 7 MAR 2016 03:00:04



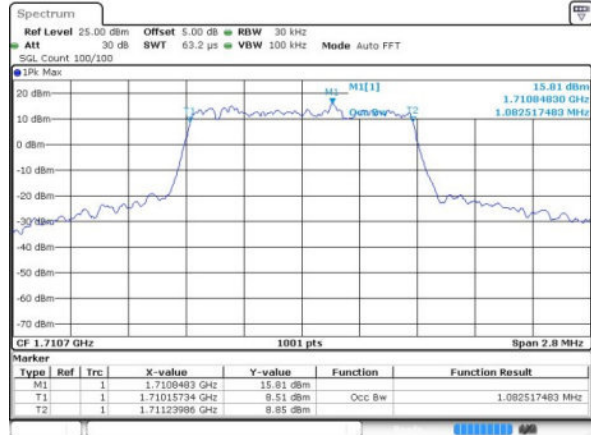
## LTE Band 4

## Lowest Channel / 1.4MHz / QPSK



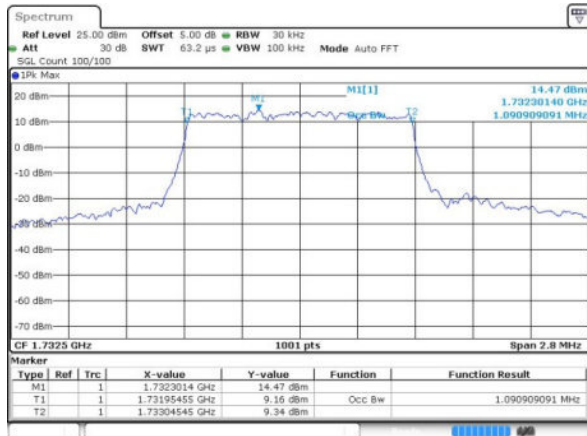
Date: 7 MAR 2016 21:23:28

## Lowest Channel / 1.4MHz / 16QAM



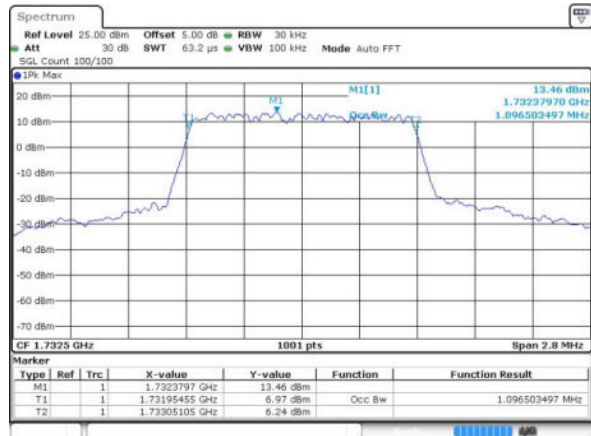
Date: 7 MAR 2016 21:23:38

## Middle Channel / 1.4MHz / QPSK



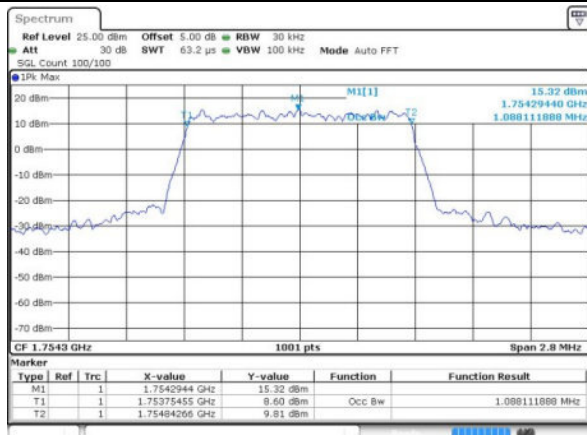
Date: 7 MAR 2016 21:30:34

## Middle Channel / 1.4MHz / 16QAM



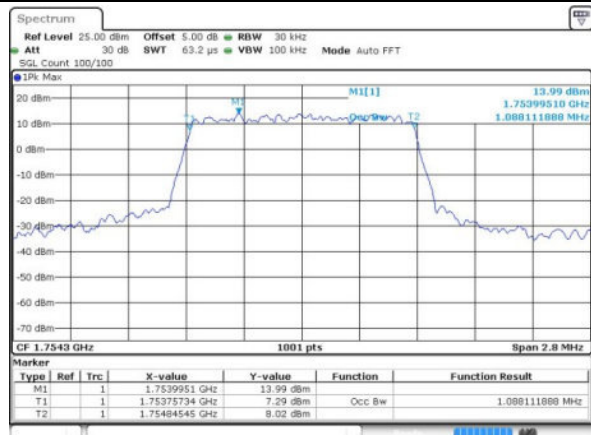
Date: 7 MAR 2016 21:30:44

## Highest Channel / 1.4MHz / QPSK



Date: 7 MAR 2016 21:33:07

## Highest Channel / 1.4MHz / 16QAM

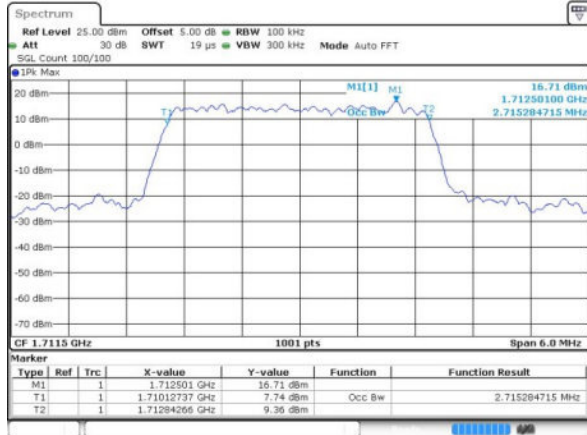


Date: 7 MAR 2016 21:33:17

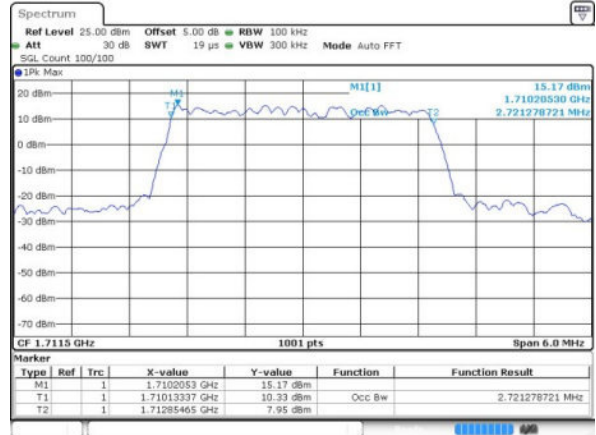


## LTE Band 4

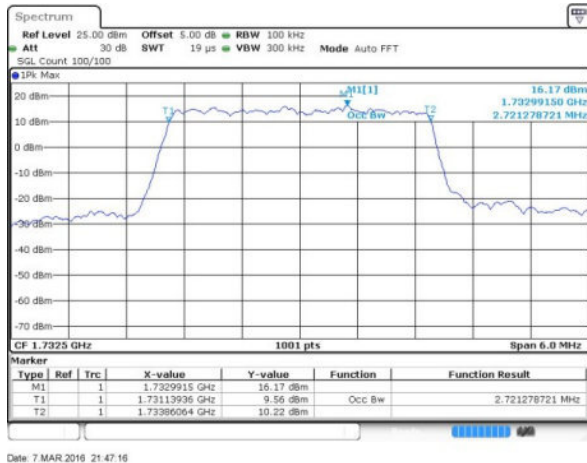
## Lowest Channel / 3MHz / QPSK



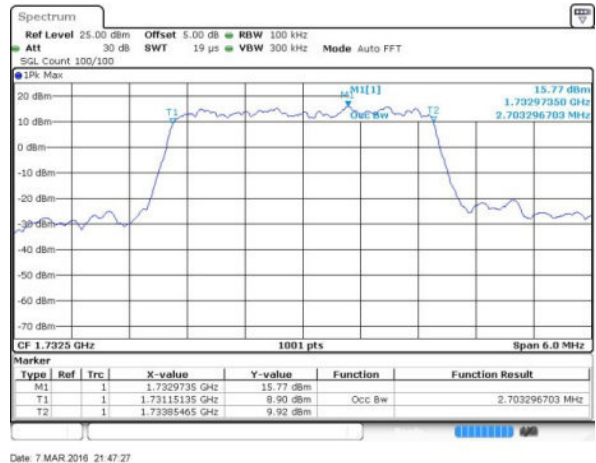
## Lowest Channel / 3MHz / 16QAM



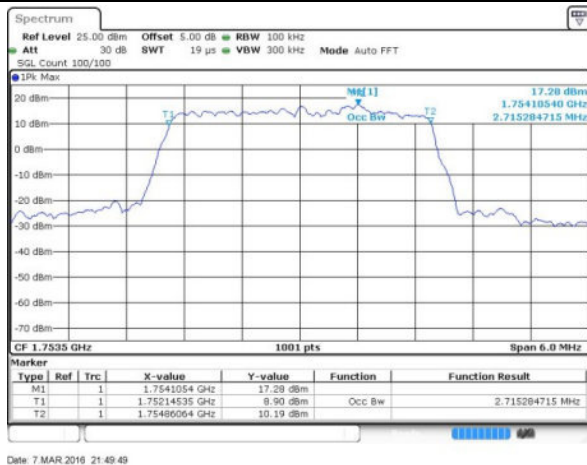
## Middle Channel / 3MHz / QPSK



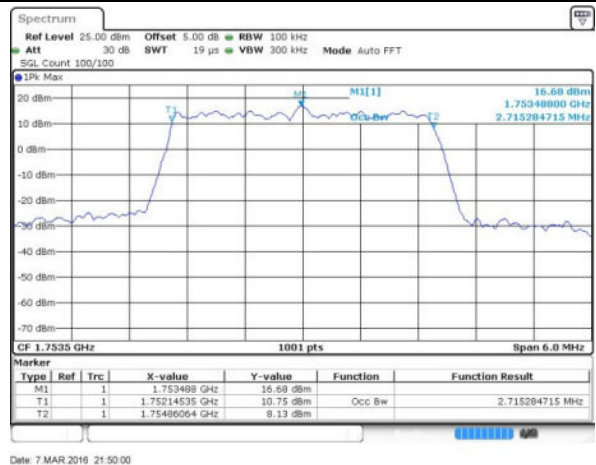
## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



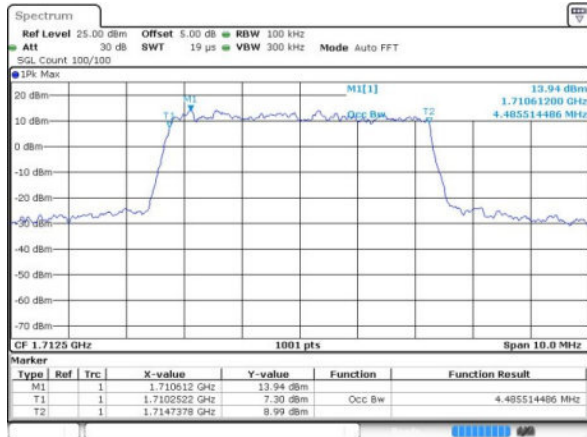
## Highest Channel / 3MHz / 16QAM



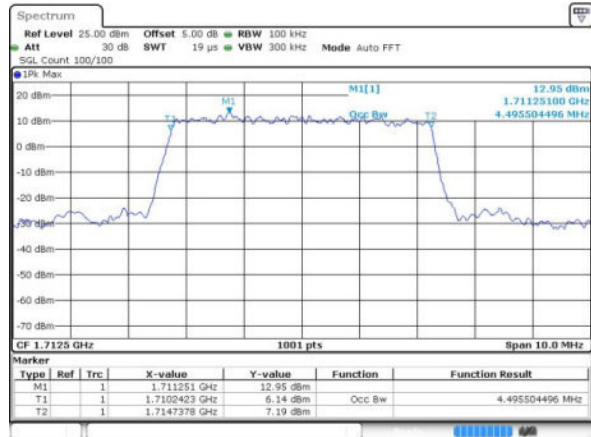


## LTE Band 4

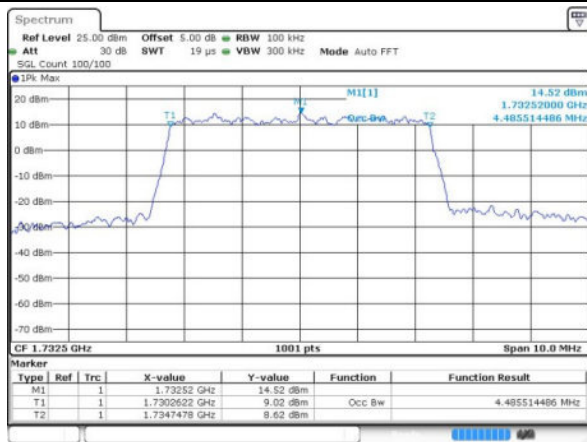
## Lowest Channel / 5MHz / QPSK



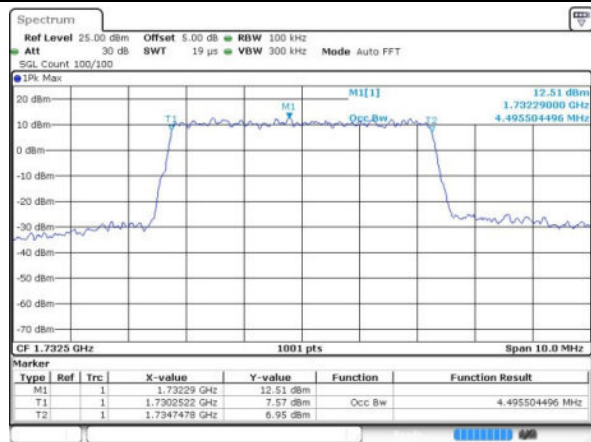
## Lowest Channel / 5MHz / 16QAM



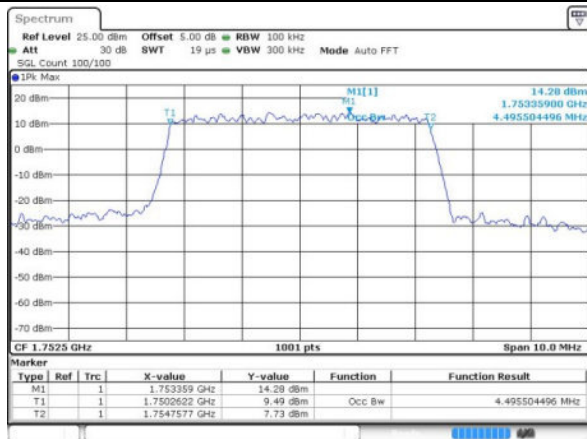
## Middle Channel / 5MHz / QPSK



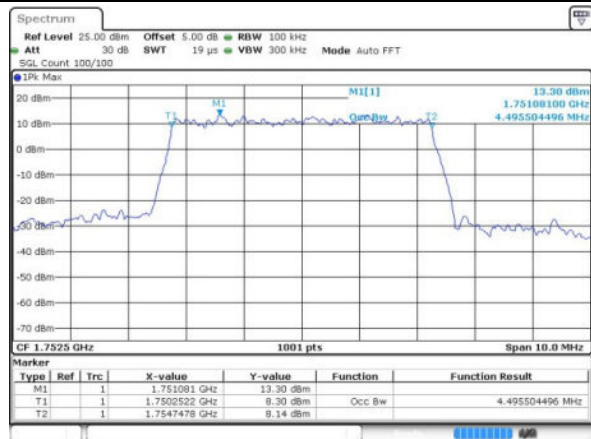
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



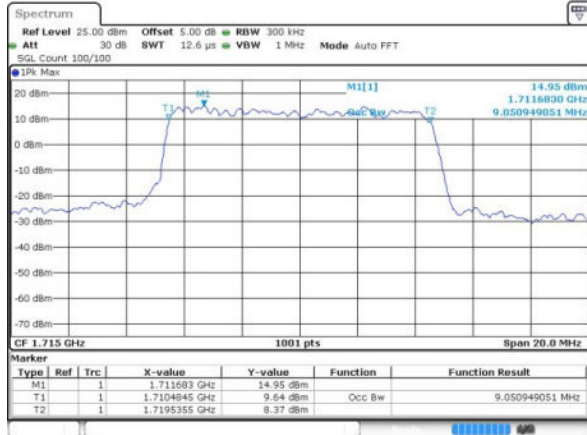
## Highest Channel / 5MHz / 16QAM



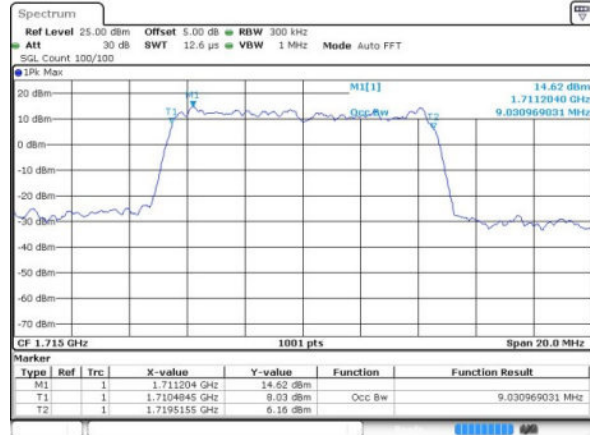


## LTE Band 4

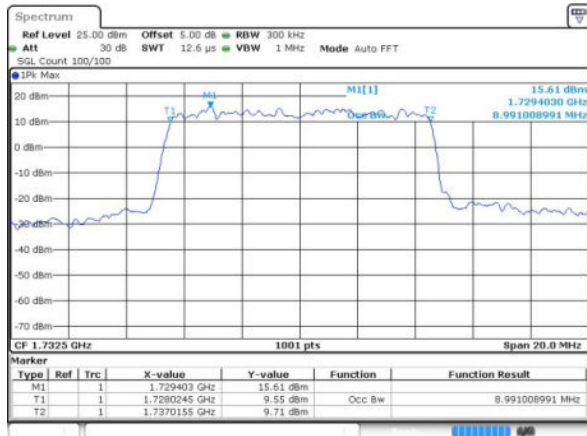
## Lowest Channel / 10MHz / QPSK



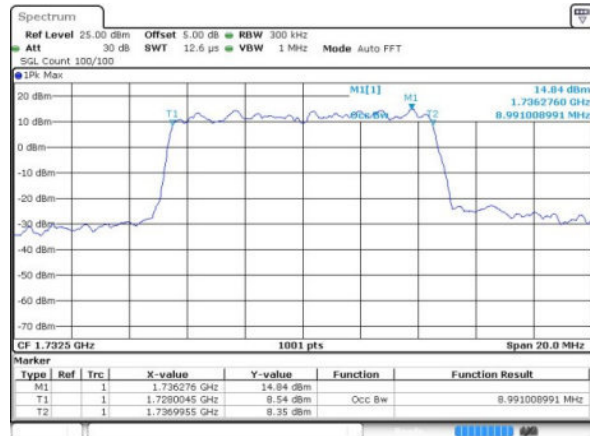
## Lowest Channel / 10MHz / 16QAM



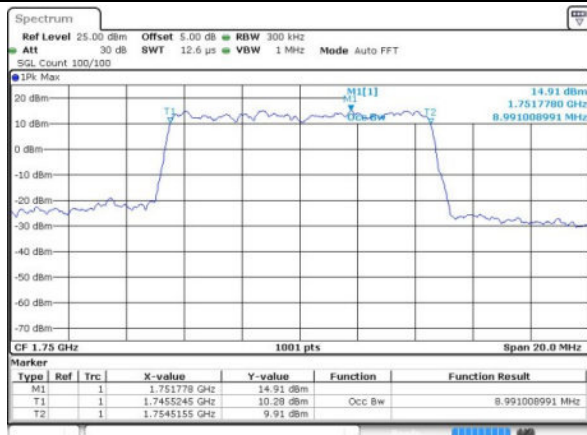
## Middle Channel / 10MHz / QPSK



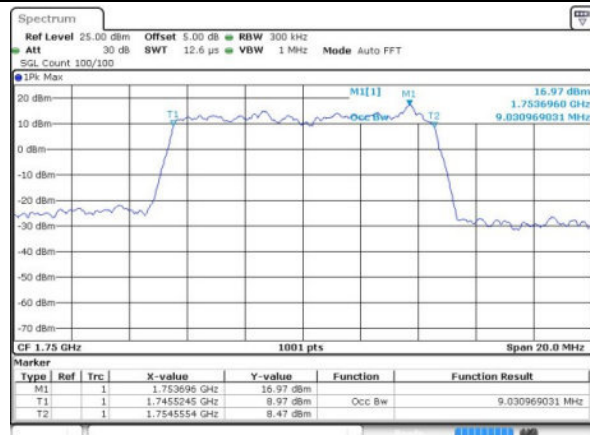
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



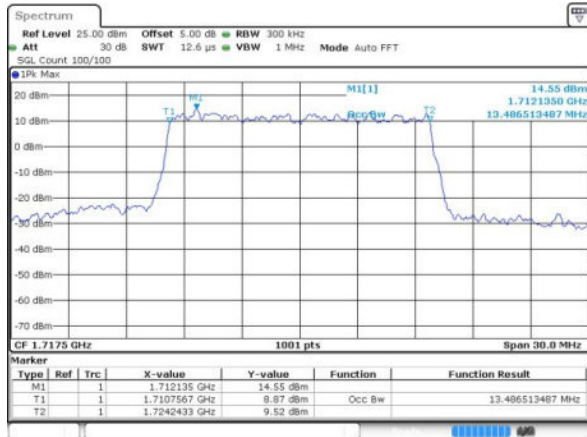
## Highest Channel / 10MHz / 16QAM



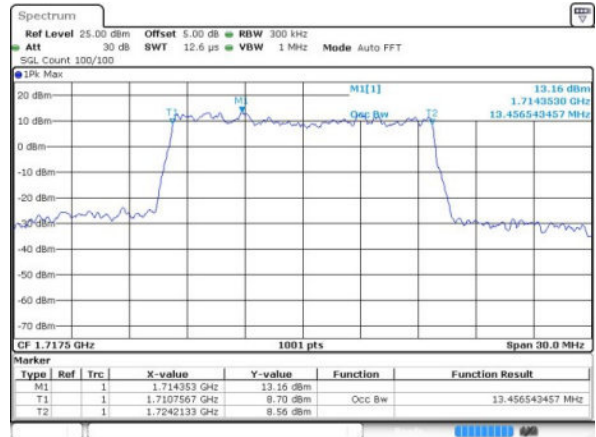


## LTE Band 4

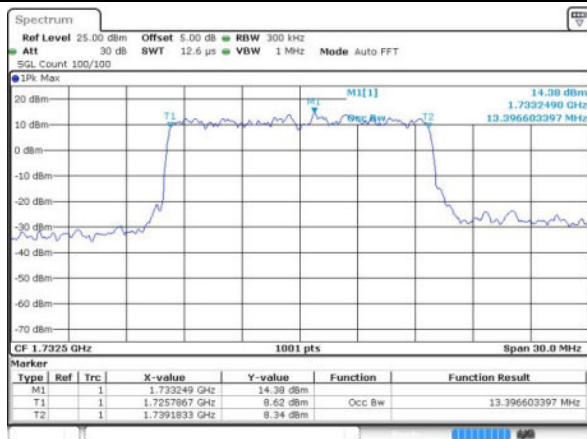
## Lowest Channel / 15MHz / QPSK



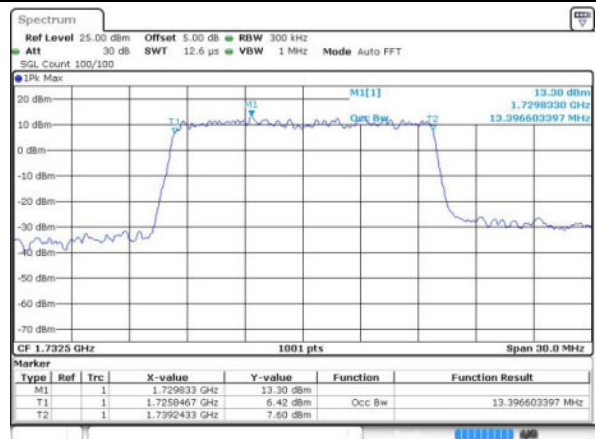
## Lowest Channel / 15MHz / 16QAM



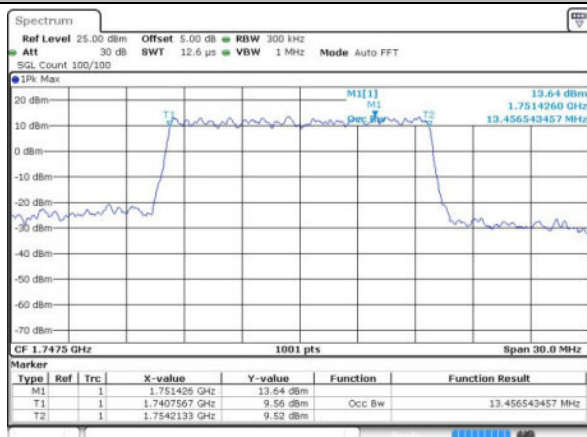
## Middle Channel / 15MHz / QPSK



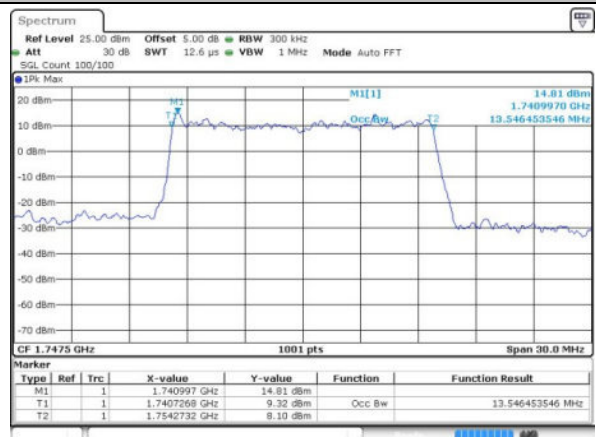
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



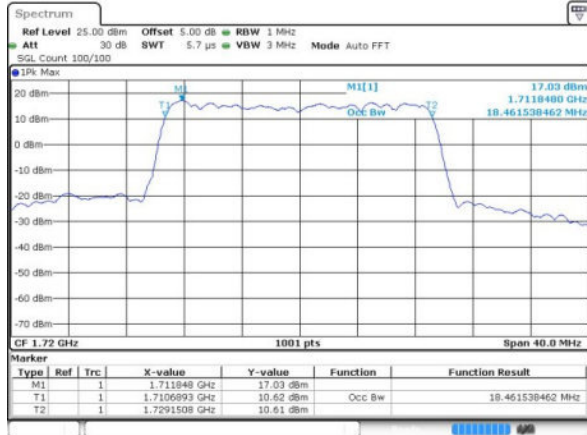
## Highest Channel / 15MHz / 16QAM



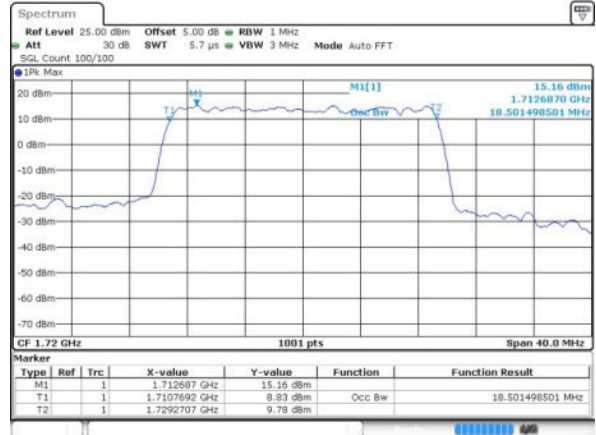


## LTE Band 4

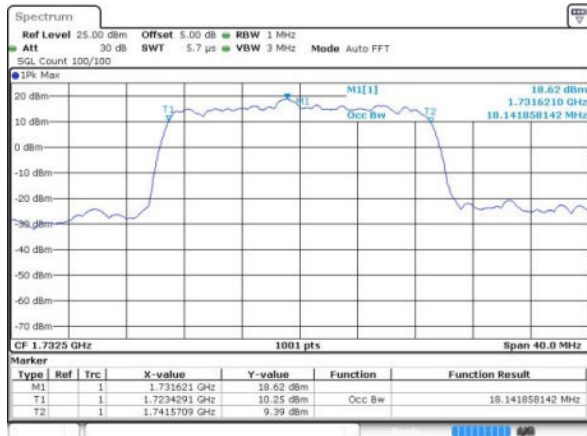
## Lowest Channel / 20MHz / QPSK



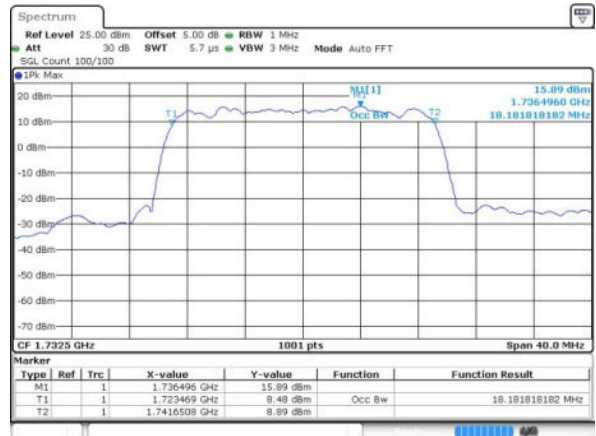
## Lowest Channel / 20MHz / 16QAM



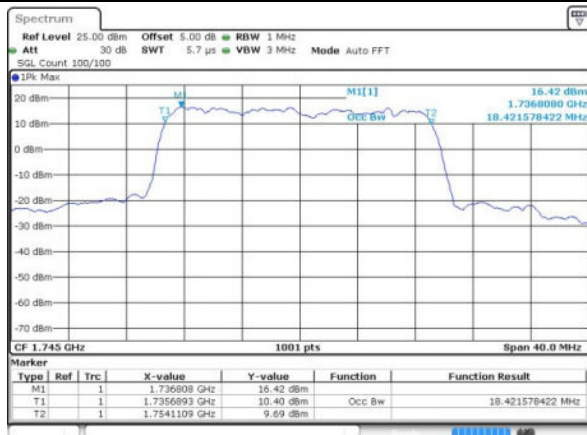
## Middle Channel / 20MHz / QPSK



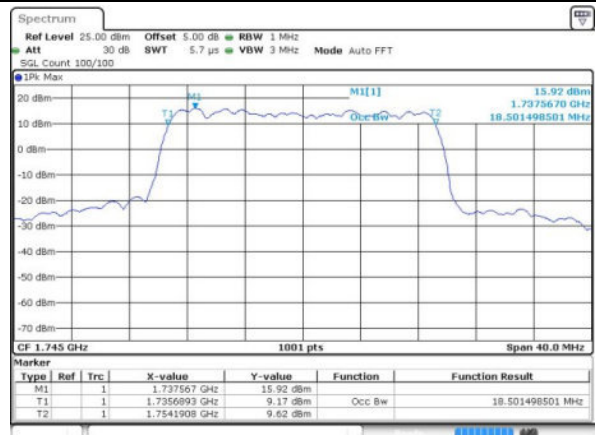
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



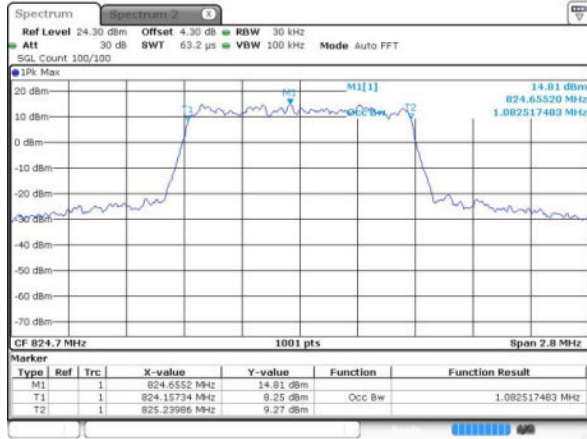
## Highest Channel / 20MHz / 16QAM





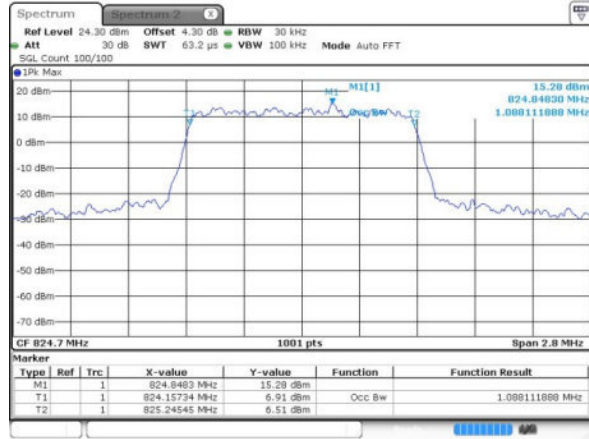
## LTE Band 5

## Lowest Channel / 1.4MHz / QPSK



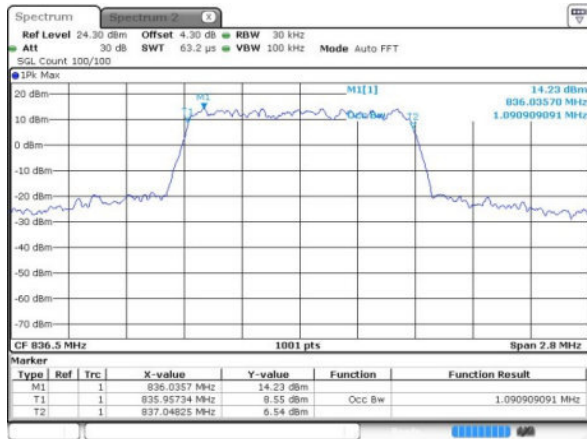
Date: 8 MAR 2016 11:06:05

## Lowest Channel / 1.4MHz / 16QAM



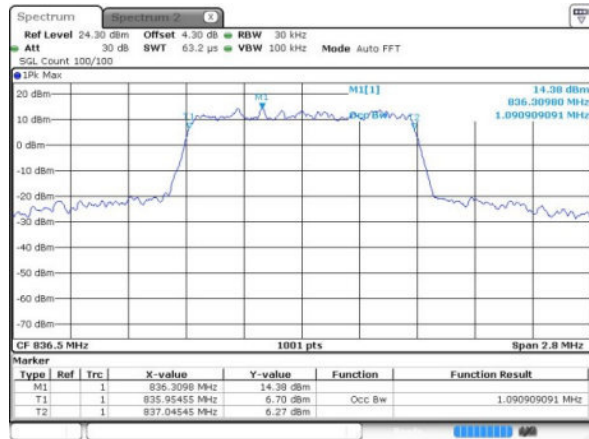
Date: 8 MAR 2016 09:28:16

## Middle Channel / 1.4MHz / QPSK



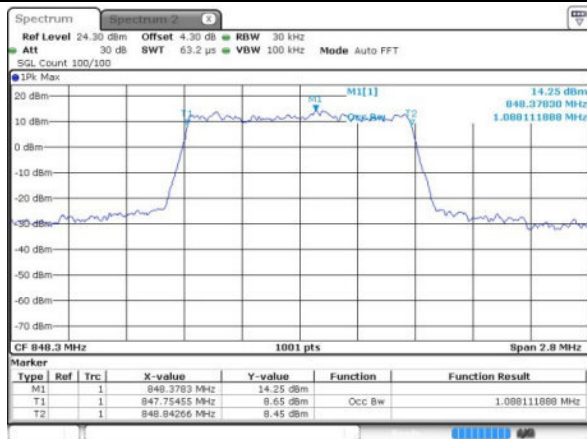
Date: 8 MAR 2016 09:38:42

## Middle Channel / 1.4MHz / 16QAM



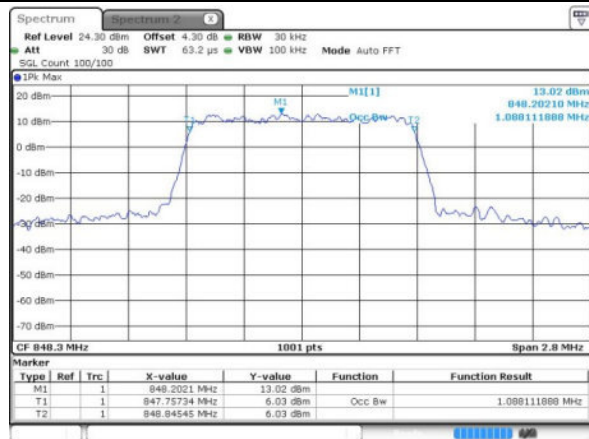
Date: 8 MAR 2016 09:38:52

## Highest Channel / 1.4MHz / QPSK



Date: 8 MAR 2016 09:41:10

## Highest Channel / 1.4MHz / 16QAM

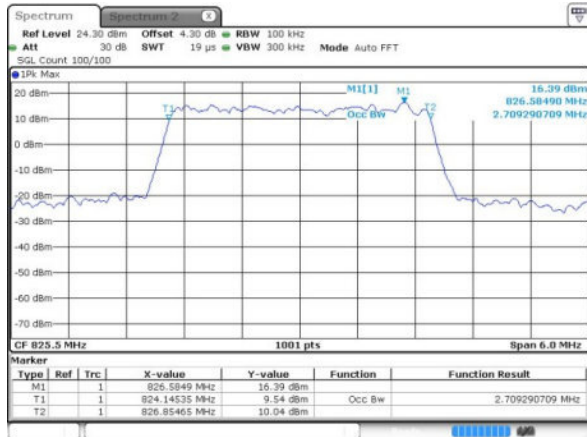


Date: 8 MAR 2016 09:41:21

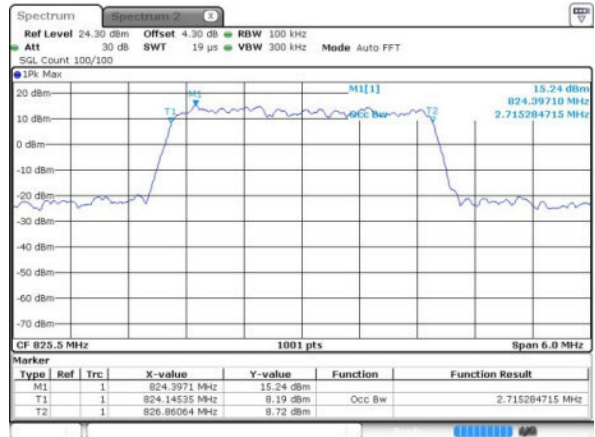


## LTE Band 5

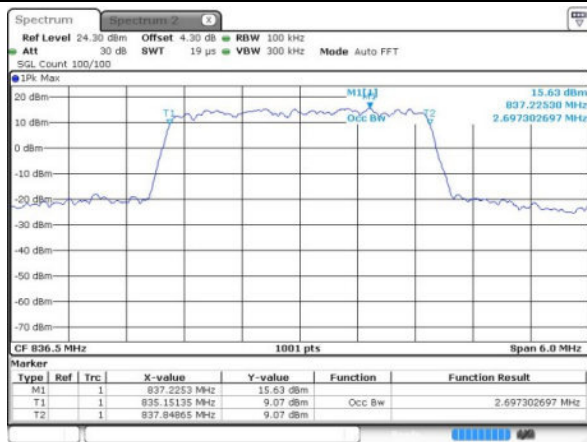
## Lowest Channel / 3MHz / QPSK



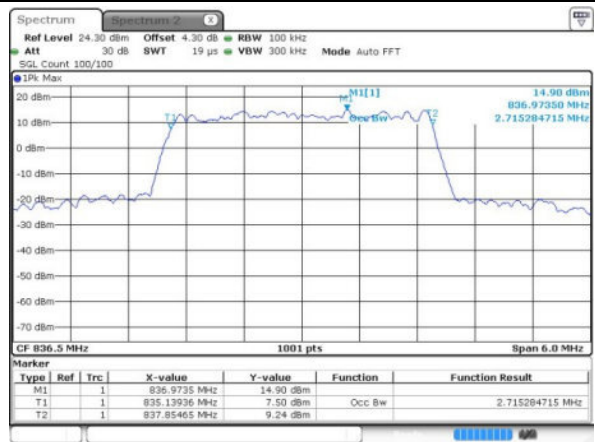
## Lowest Channel / 3MHz / 16QAM



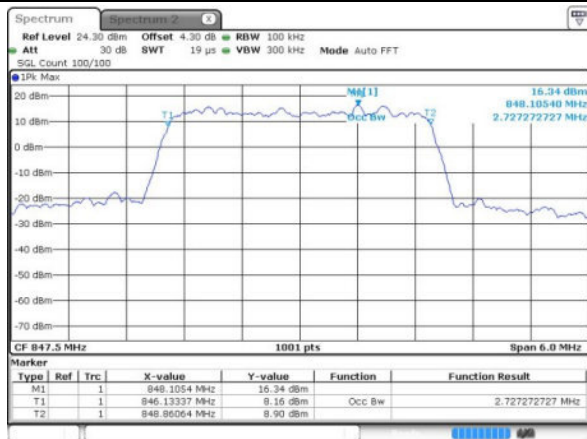
## Middle Channel / 3MHz / QPSK



## Middle Channel / 3MHz / 16QAM



## Highest Channel / 3MHz / QPSK



## Highest Channel / 3MHz / 16QAM

