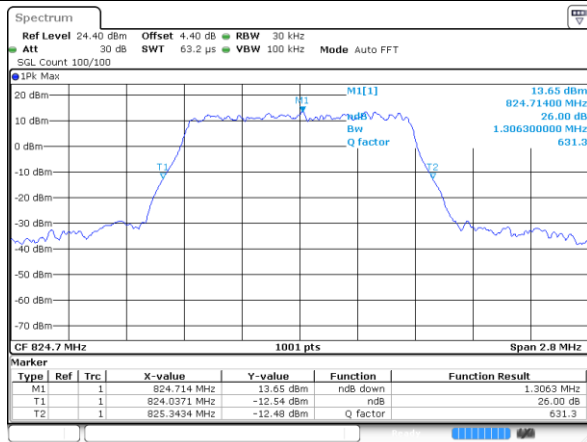




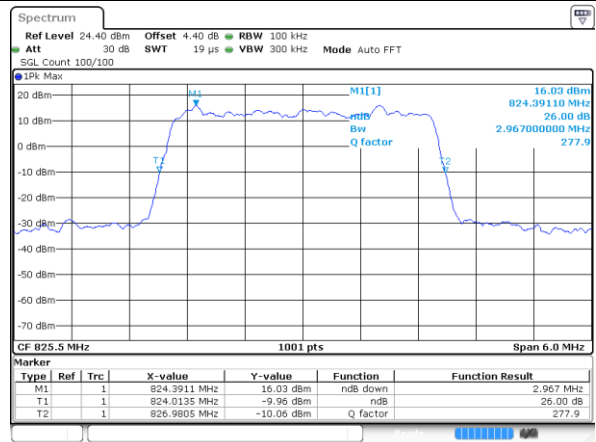
## LTE Band 5

## Lowest Channel / 1.4MHz / 64QAM



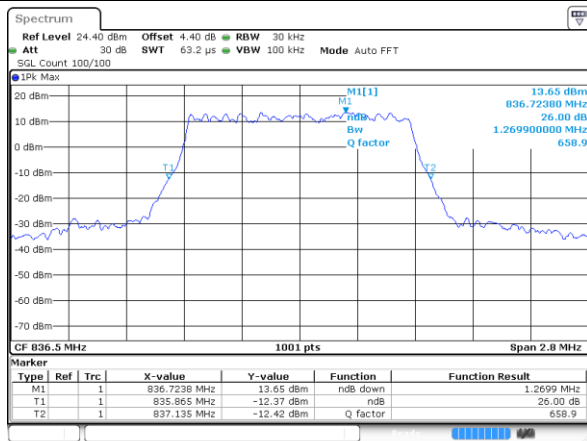
Date: 26 APR 2018 16:26:31

## Lowest Channel / 3MHz / 64QAM



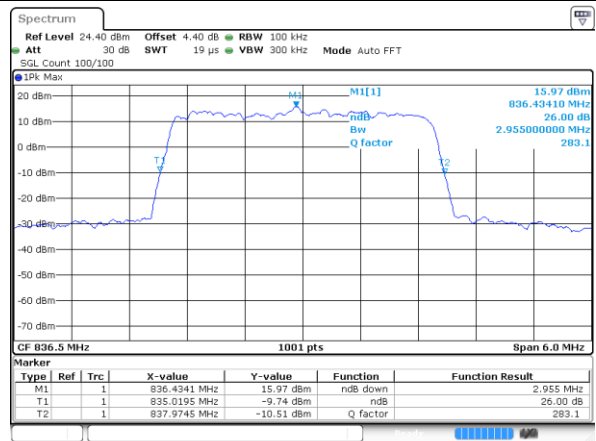
Date: 26 APR 2018 16:36:44

## Middle Channel / 1.4MHz / 64QAM



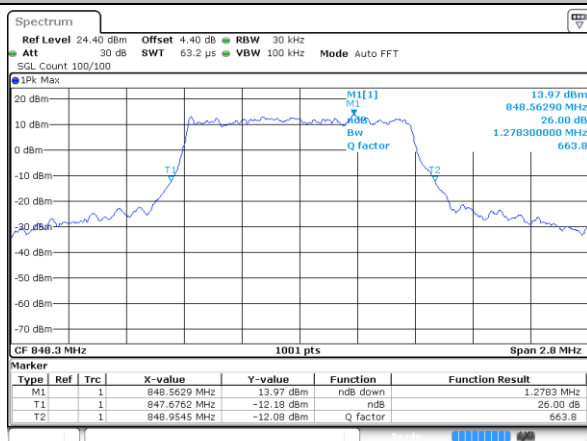
Date: 26 APR 2018 16:31:00

## Middle Channel / 3MHz / 64QAM



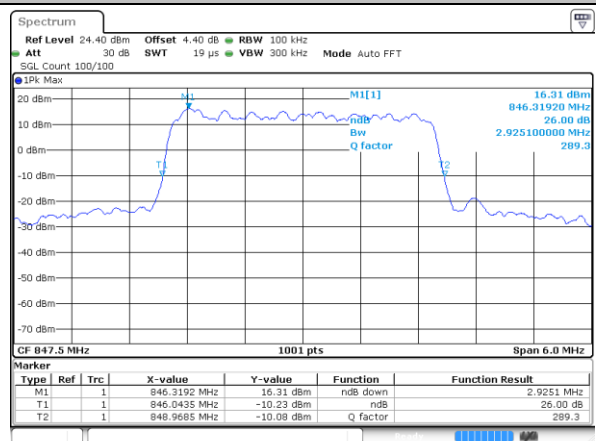
Date: 26 APR 2018 16:41:13

## Highest Channel / 1.4MHz / 64QAM



Date: 26 APR 2018 16:32:14

## Highest Channel / 3MHz / 64QAM

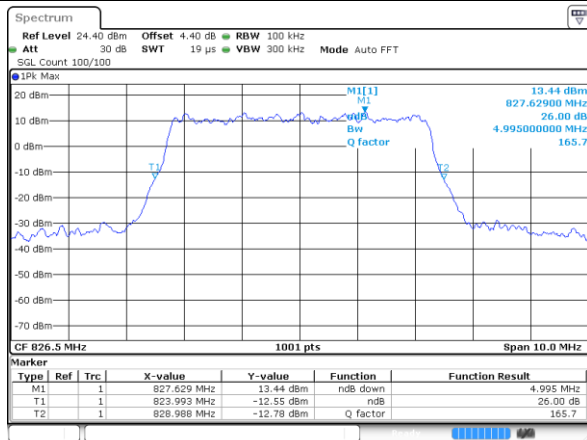


Date: 26 APR 2018 16:42:27



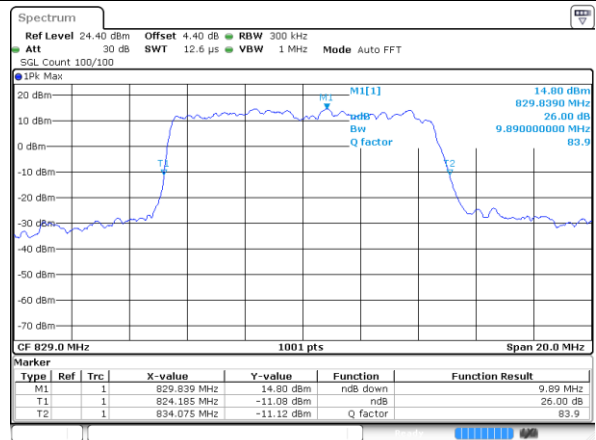
## LTE Band 5

## Lowest Channel / 5MHz / 64QAM



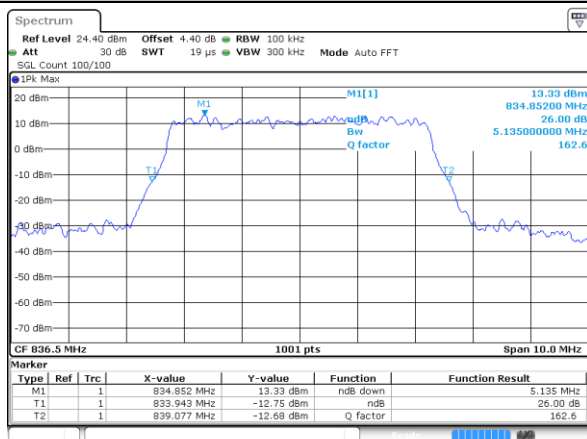
Date: 26 APR 2018 16:46:57

## Lowest Channel / 10MHz / 64QAM



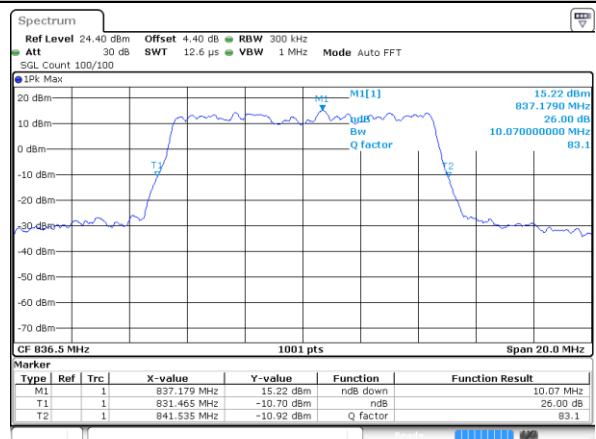
Date: 26 APR 2018 16:57:10

## Middle Channel / 5MHz / 64QAM



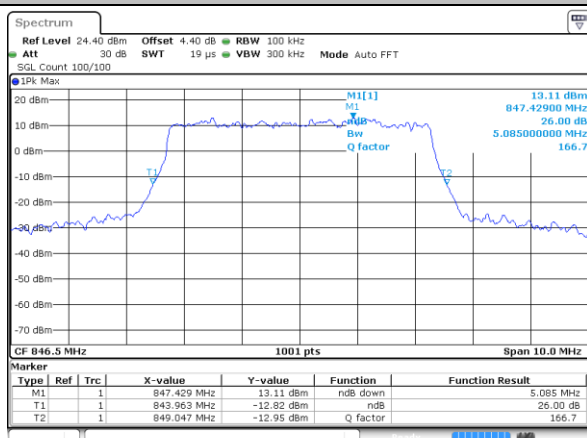
Date: 26 APR 2018 16:51:26

## Middle Channel / 10MHz / 64QAM



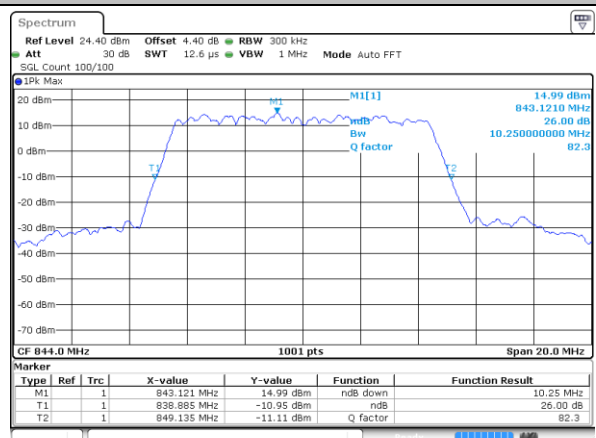
Date: 26 APR 2018 17:01:39

## Highest Channel / 5MHz / 64QAM



Date: 26 APR 2018 16:52:40

## Highest Channel / 10MHz / 64QAM

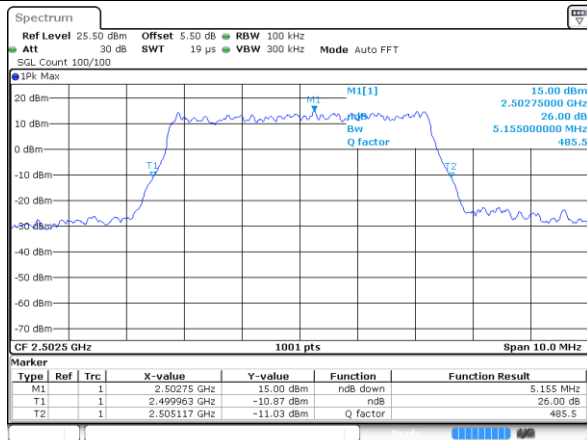


Date: 26 APR 2018 17:02:53



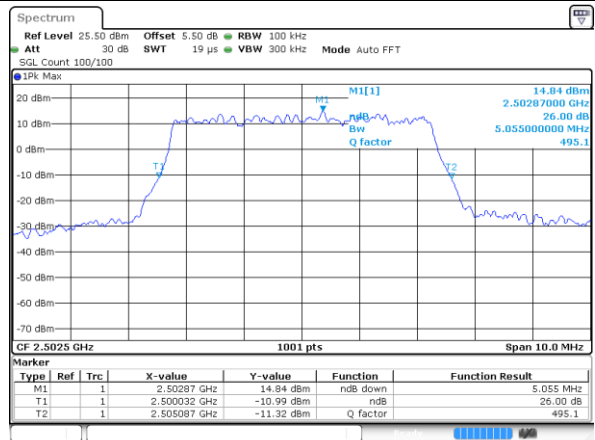
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



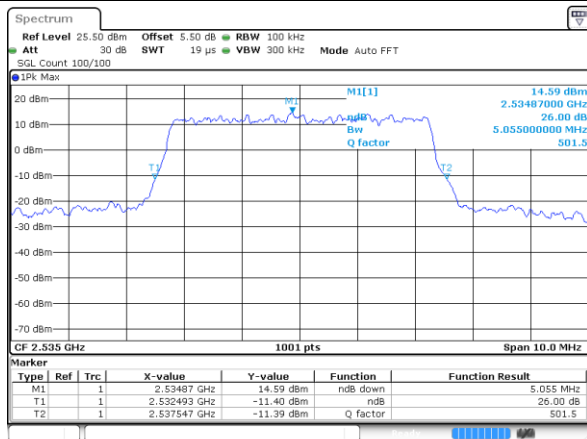
Date: 27 APR 2018 16:04:34

## Lowest Channel / 5MHz / 16QAM



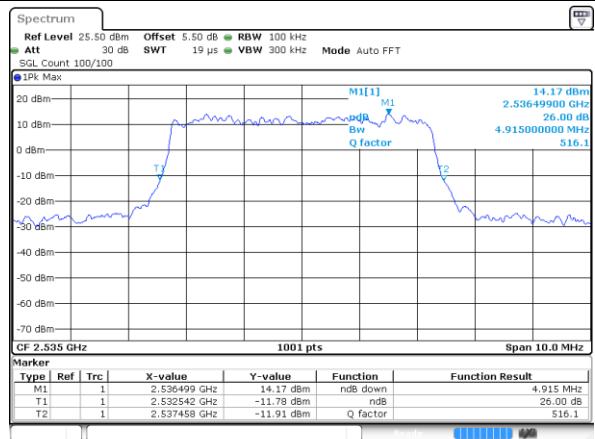
Date: 27 APR 2018 16:04:56

## Middle Channel / 5MHz / QPSK



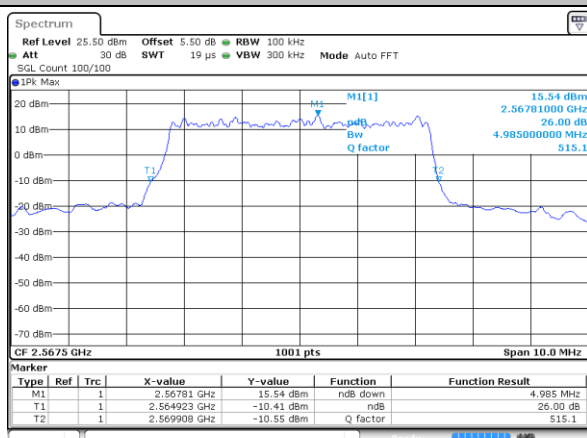
Date: 27 APR 2018 16:09:18

## Middle Channel / 5MHz / 16QAM



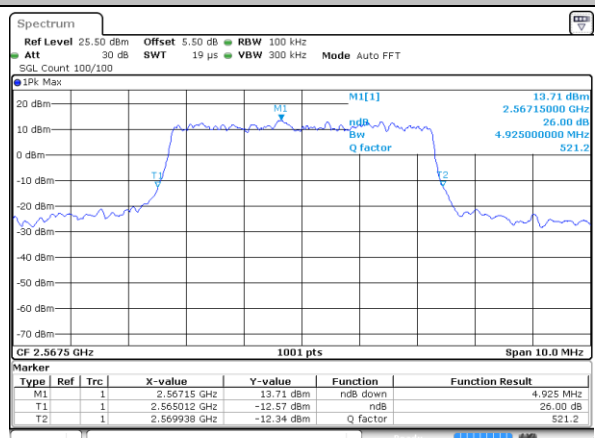
Date: 27 APR 2018 16:08:56

## Highest Channel / 5MHz / QPSK



Date: 27 APR 2018 16:09:39

## Highest Channel / 5MHz / 16QAM

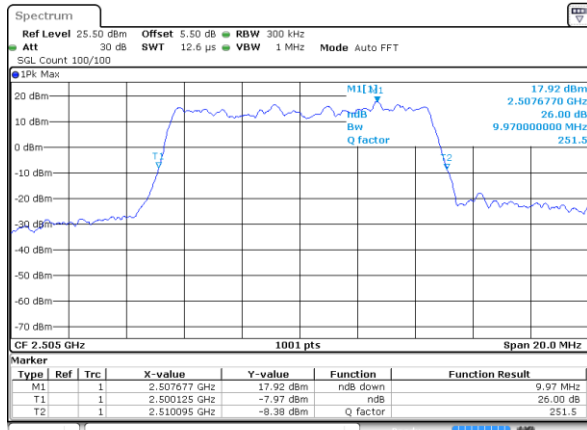


Date: 27 APR 2018 16:10:01

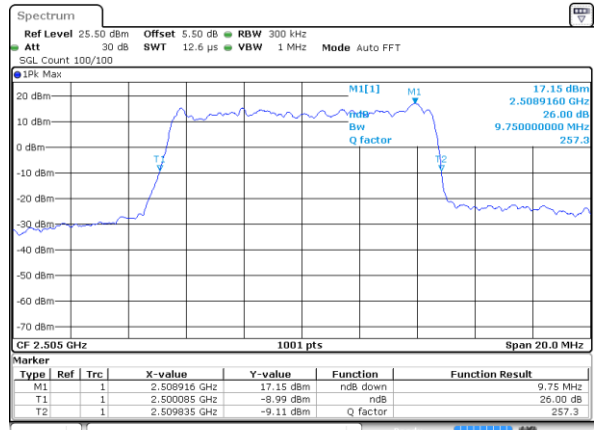


## LTE Band 7

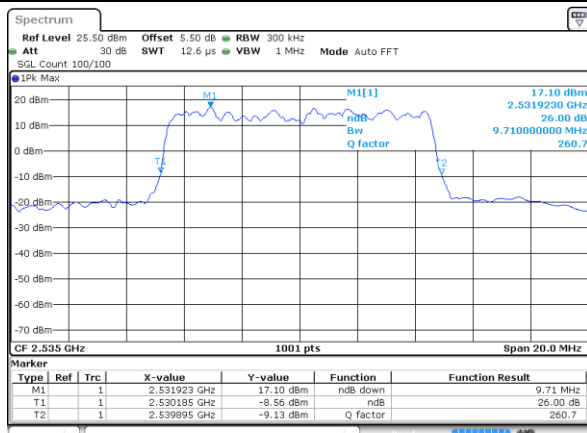
## Lowest Channel / 10MHz / QPSK



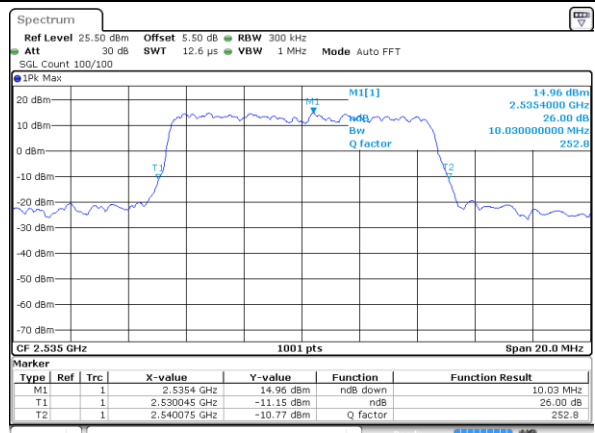
## Lowest Channel / 10MHz / 16QAM



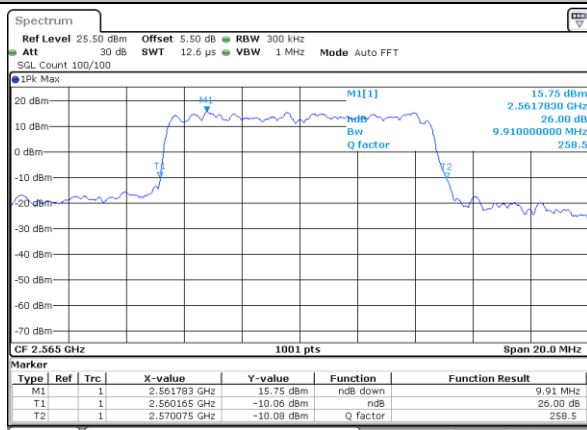
## Middle Channel / 10MHz / QPSK



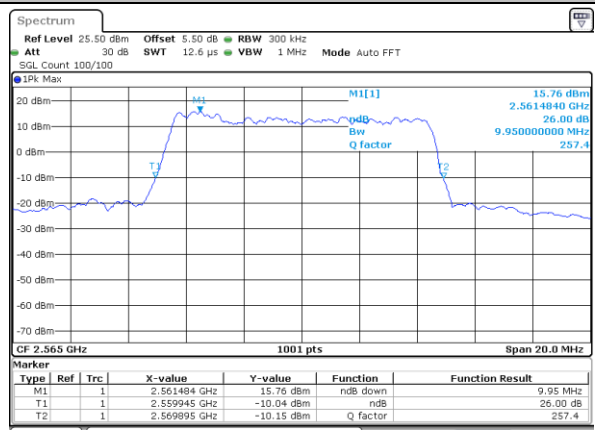
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



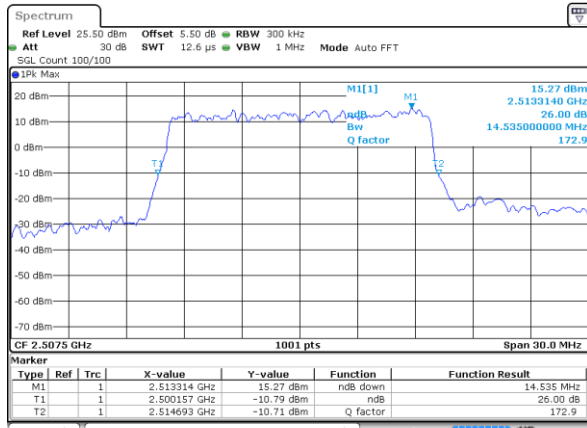
## Highest Channel / 10MHz / 16QAM



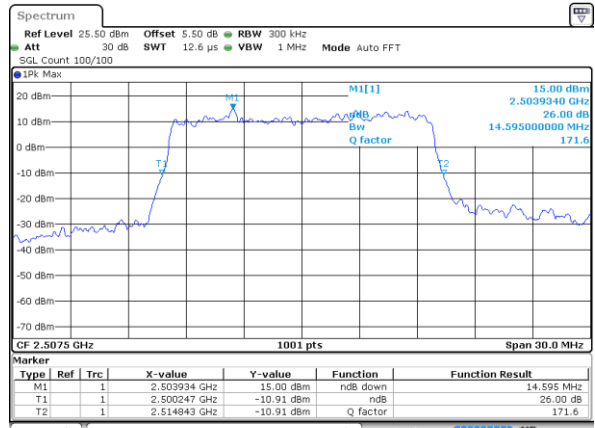


## LTE Band 7

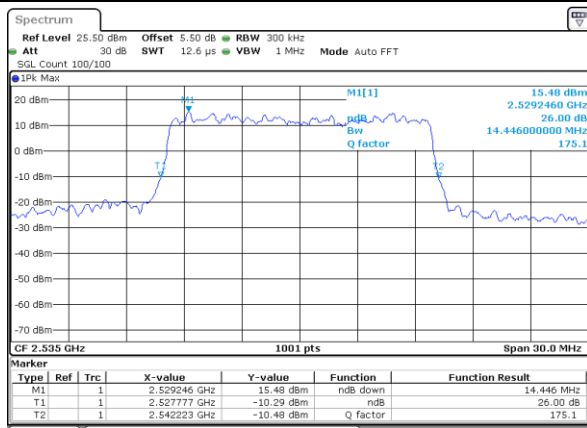
## Lowest Channel / 15MHz / QPSK



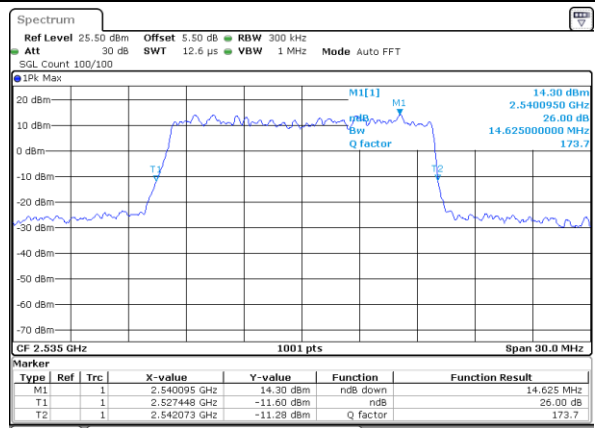
## Lowest Channel / 15MHz / 16QAM



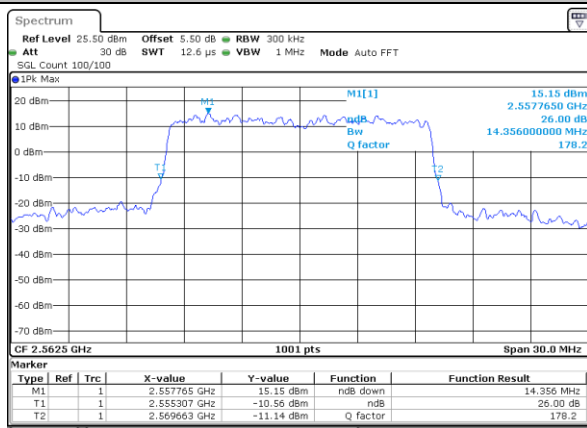
## Middle Channel / 15MHz / QPSK



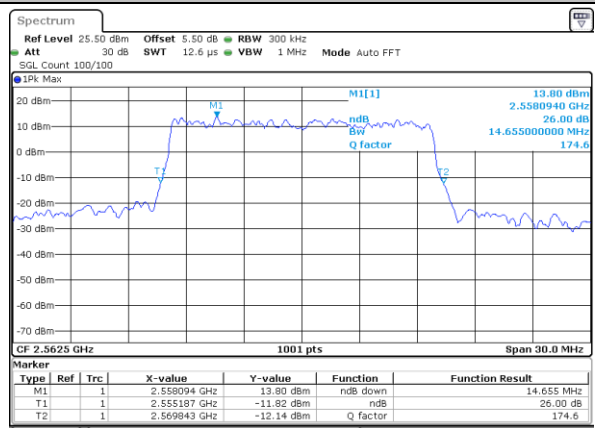
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



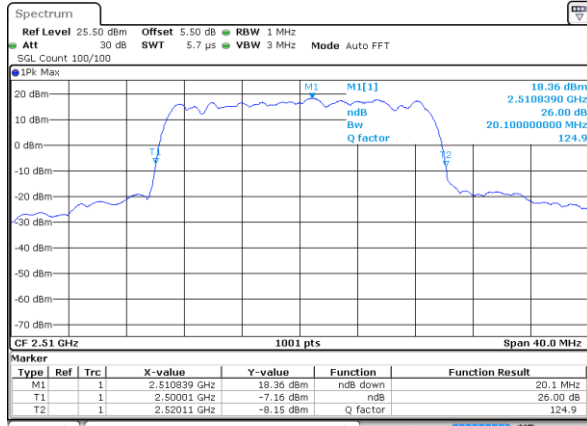
## Highest Channel / 15MHz / 16QAM



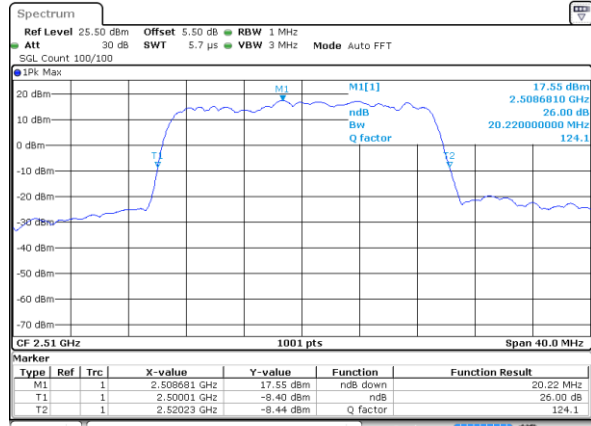


## LTE Band 7

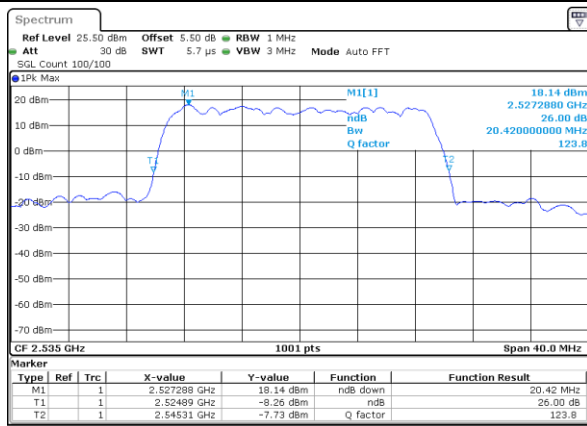
## Lowest Channel / 20MHz / QPSK



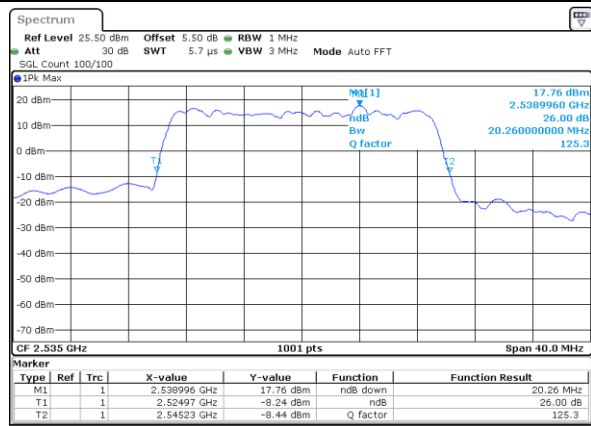
## Lowest Channel / 20MHz / 16QAM



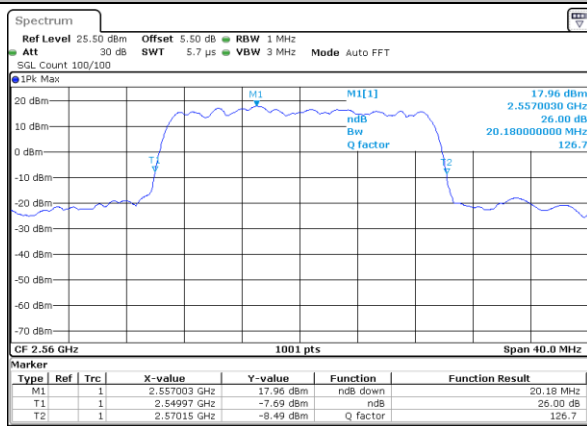
## Middle Channel / 20MHz / QPSK



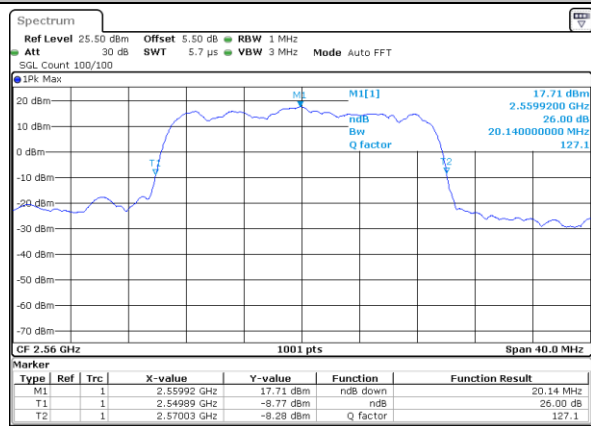
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



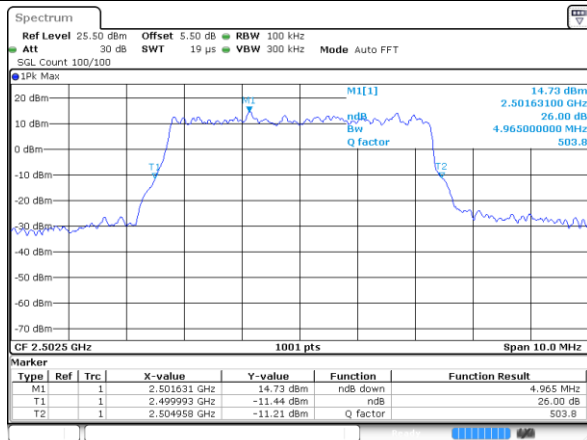
## Highest Channel / 20MHz / 16QAM





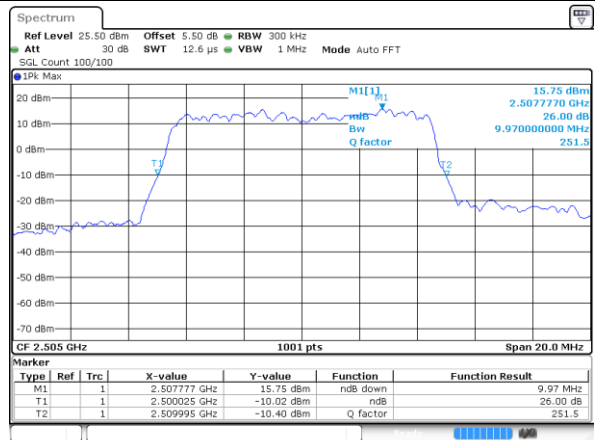
## LTE Band 7

## Lowest Channel / 5MHz / 64QAM



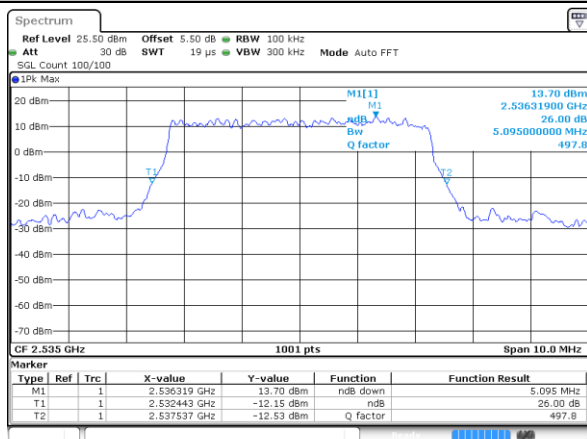
Date: 27 APR 2018 16:48:45

## Lowest Channel / 10MHz / 64QAM



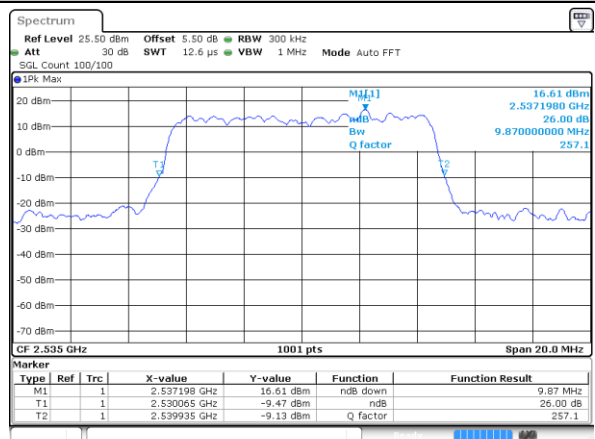
Date: 27 APR 2018 16:49:49

## Middle Channel / 5MHz / 64QAM



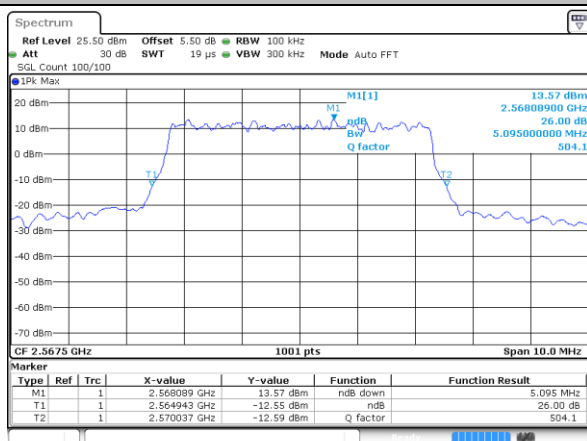
Date: 27 APR 2018 16:49:06

## Middle Channel / 10MHz / 64QAM



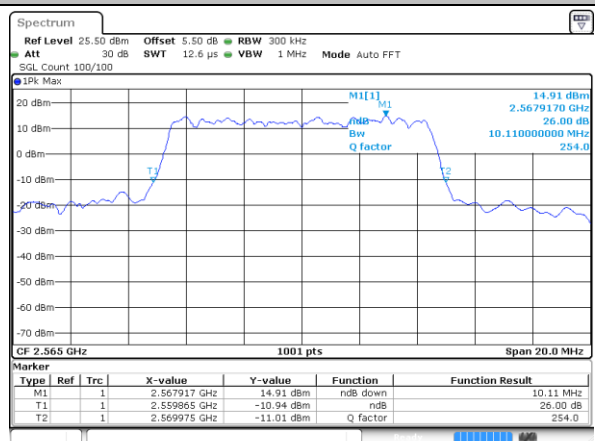
Date: 27 APR 2018 16:50:11

## Highest Channel / 5MHz / 64QAM



Date: 27 APR 2018 16:49:28

## Highest Channel / 10MHz / 64QAM

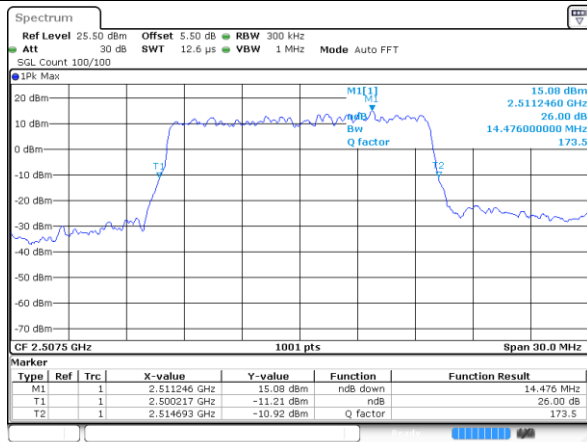


Date: 27 APR 2018 16:50:32

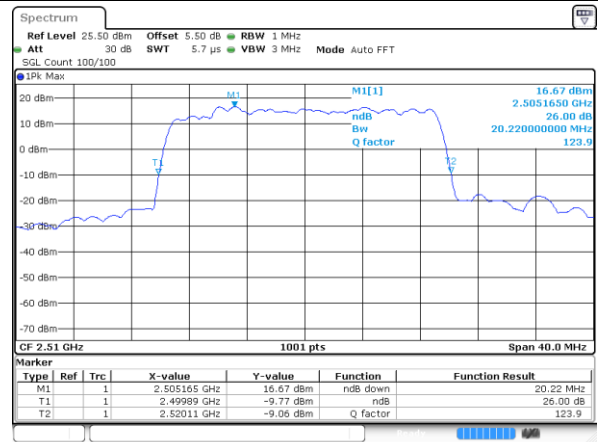


## LTE Band 7

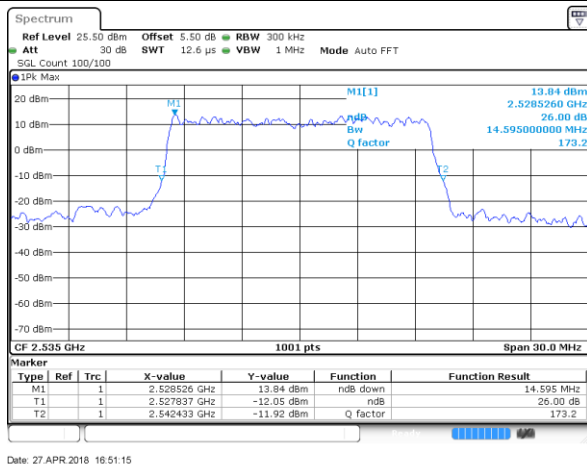
## Lowest Channel / 15MHz / 64QAM



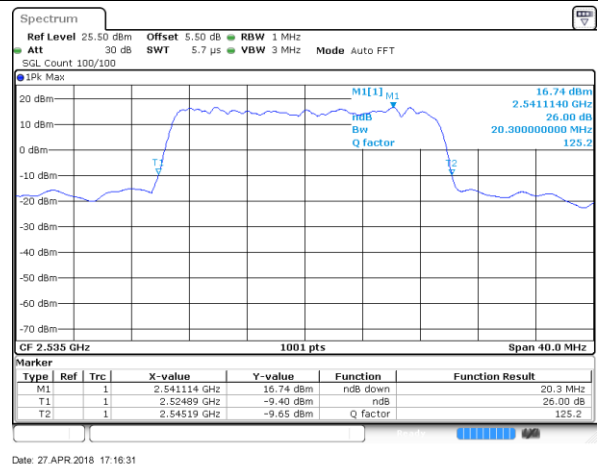
## Lowest Channel / 20MHz / 64QAM



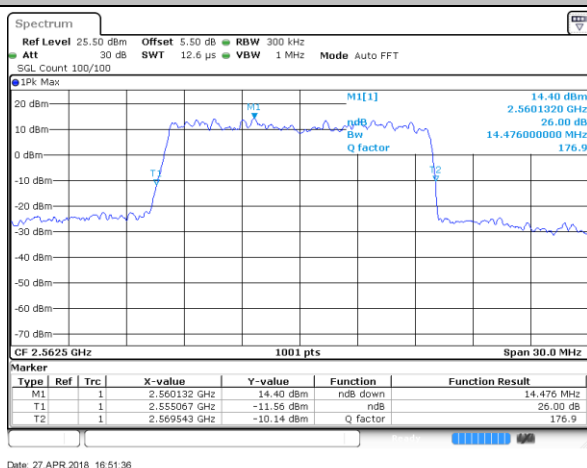
## Middle Channel / 15MHz / 64QAM



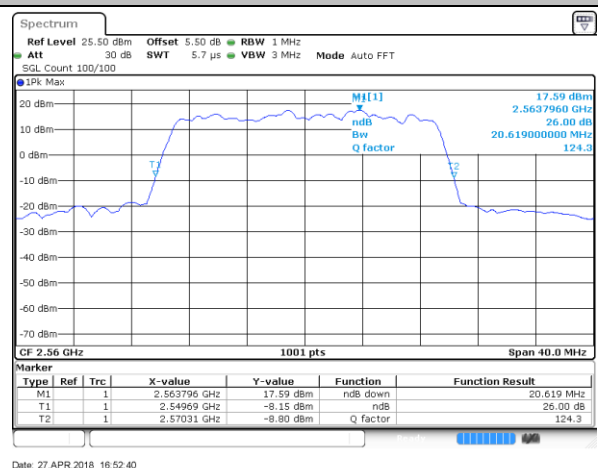
## Middle Channel / 20MHz / 64QAM



## Highest Channel / 15MHz / 64QAM



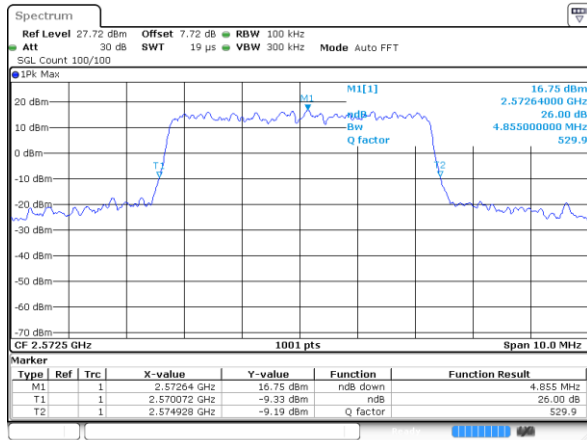
## Highest Channel / 20MHz / 64QAM





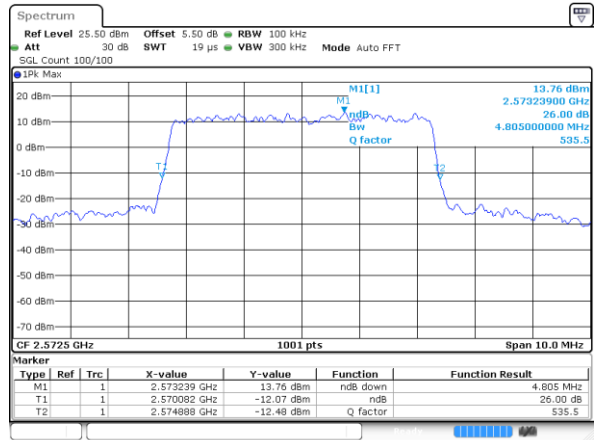
## LTE Band 38

## Lowest Channel / 5MHz / QPSK



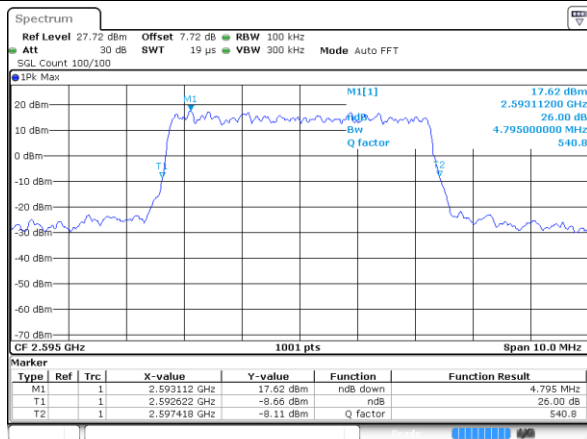
Date: 28 APR 2018 11:17:41

## Lowest Channel / 5MHz / 16QAM



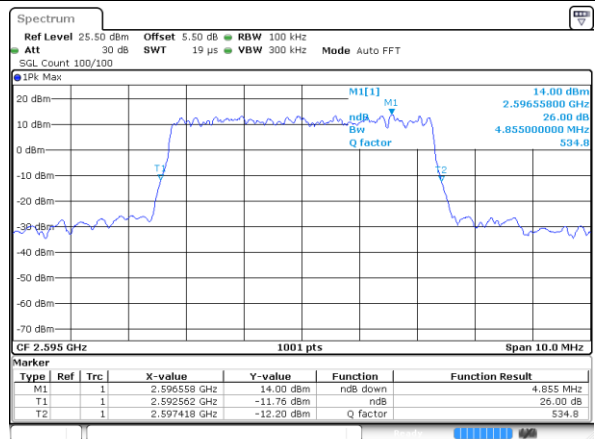
Date: 28 APR 2018 09:09:42

## Middle Channel / 5MHz / QPSK



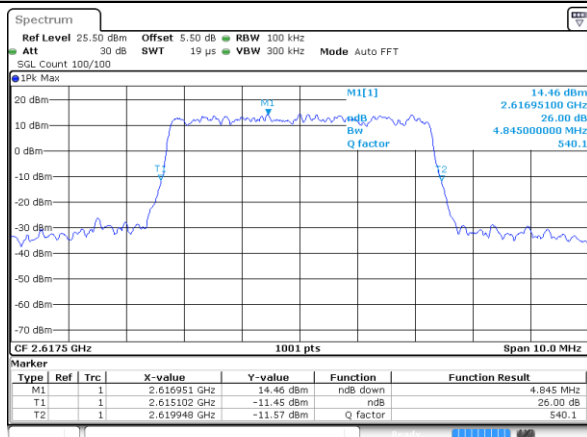
Date: 28 APR 2018 11:18:01

## Middle Channel / 5MHz / 16QAM



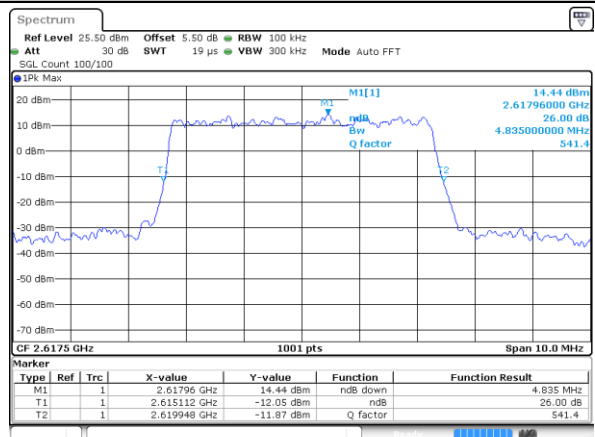
Date: 28 APR 2018 09:10:24

## Highest Channel / 5MHz / QPSK



Date: 28 APR 2018 09:10:56

## Highest Channel / 5MHz / 16QAM

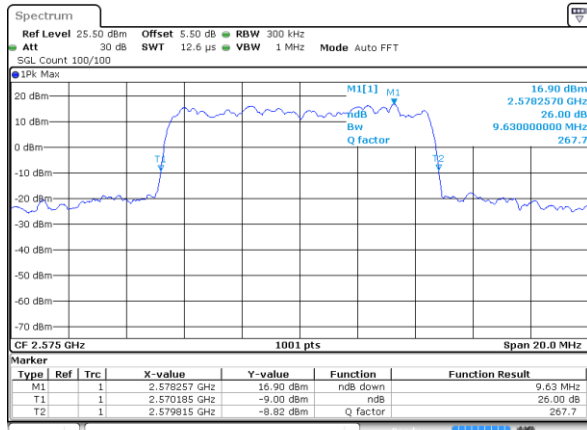


Date: 28 APR 2018 09:11:07



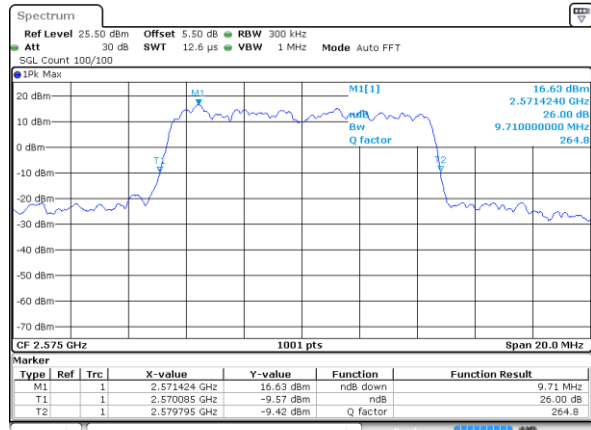
## LTE Band 38

## Lowest Channel / 10MHz / QPSK



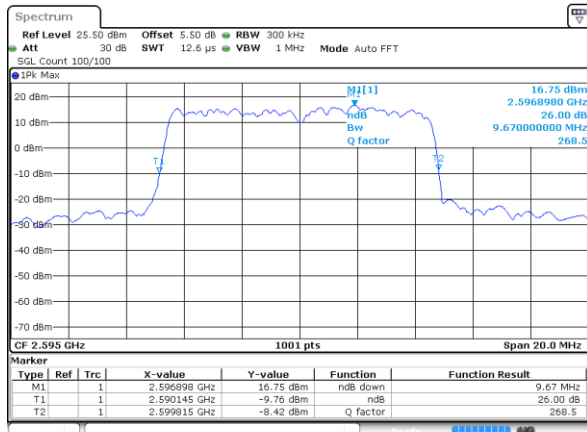
Date: 28 APR 2018 09:11:39

## Lowest Channel / 10MHz / 16QAM



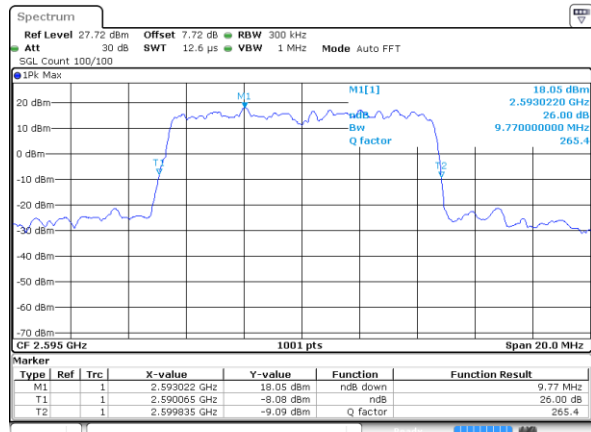
Date: 28 APR 2018 09:11:49

## Middle Channel / 10MHz / QPSK



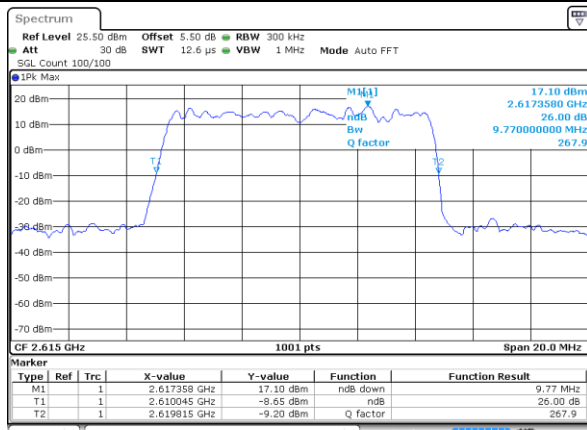
Date: 28 APR 2018 09:12:21

## Middle Channel / 10MHz / 16QAM



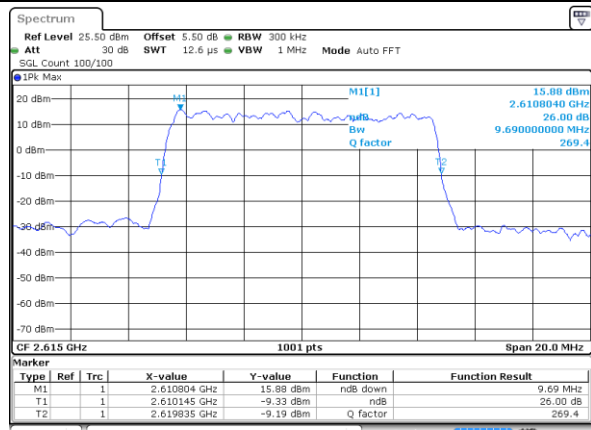
Date: 28 APR 2018 11:19:18

## Highest Channel / 10MHz / QPSK



Date: 28 APR 2018 09:13:04

## Highest Channel / 10MHz / 16QAM

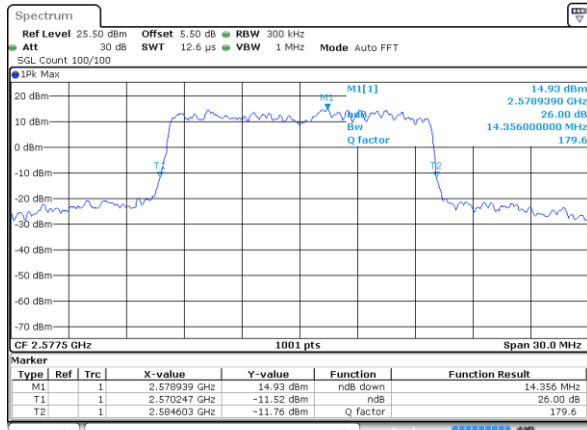


Date: 28 APR 2018 09:13:15



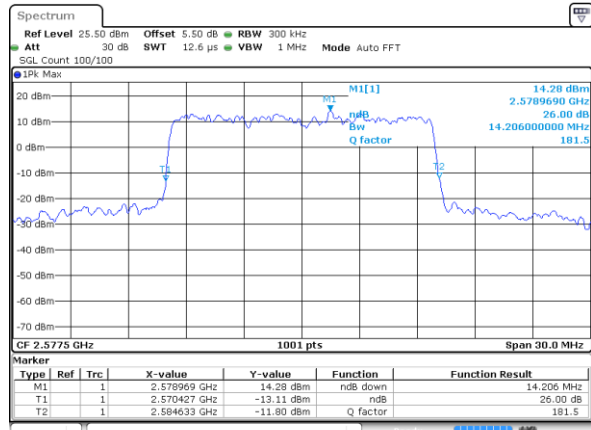
## LTE Band 38

## Lowest Channel / 15MHz / QPSK



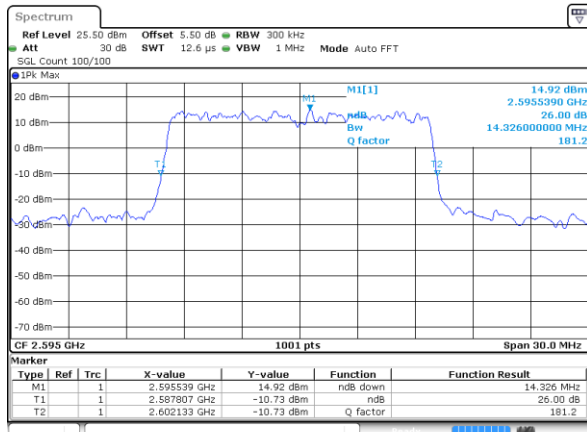
Date: 28 APR 2018 09:13:47

## Lowest Channel / 15MHz / 16QAM



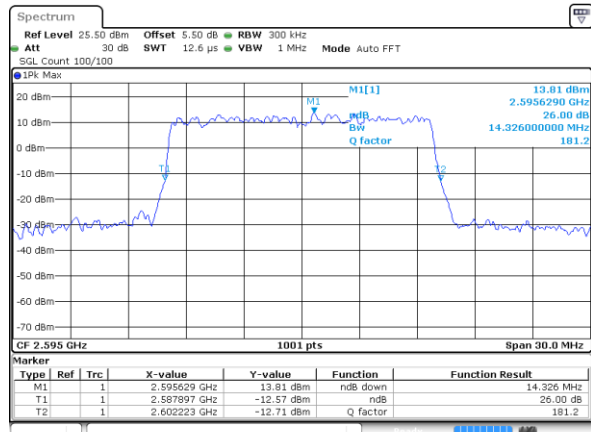
Date: 28 APR 2018 09:13:57

## Middle Channel / 15MHz / QPSK



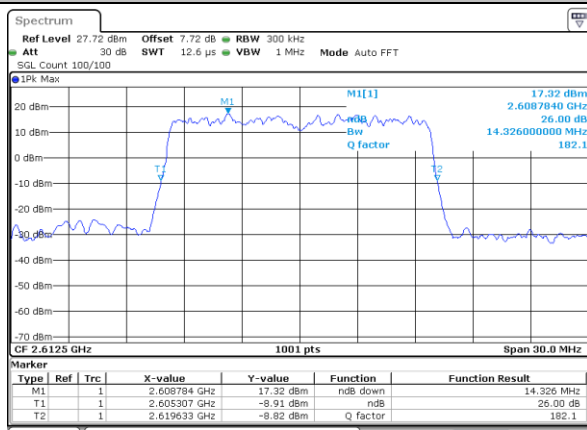
Date: 28 APR 2018 09:14:29

## Middle Channel / 15MHz / 16QAM



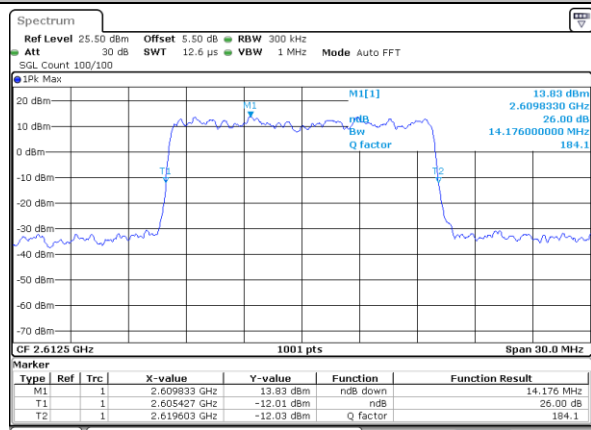
Date: 28 APR 2018 09:14:40

## Highest Channel / 15MHz / QPSK



Date: 28 APR 2018 11:20:22

## Highest Channel / 15MHz / 16QAM

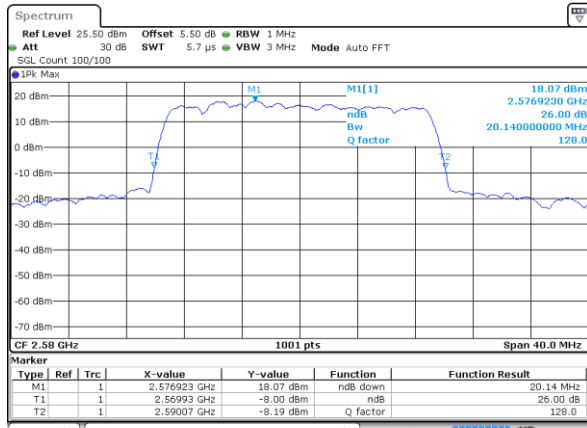


Date: 28 APR 2018 09:15:22

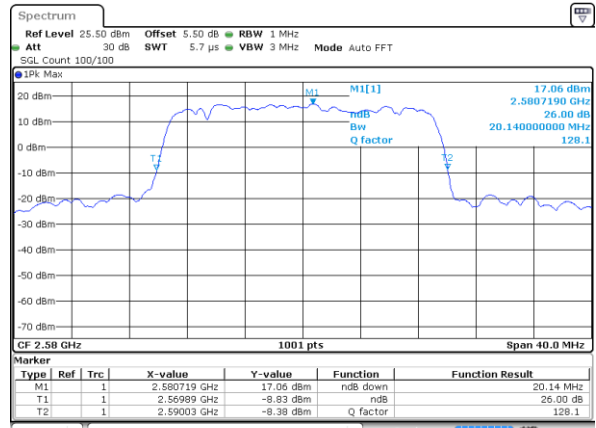


## LTE Band 38

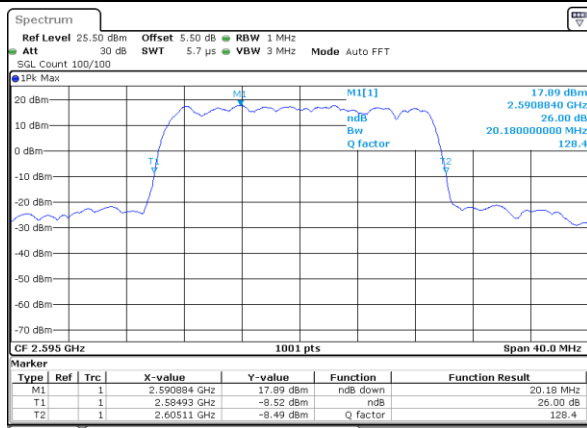
## Lowest Channel / 20MHz / QPSK



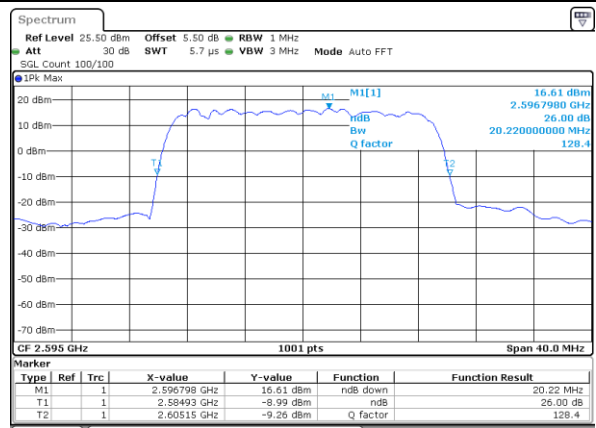
## Lowest Channel / 20MHz / 16QAM



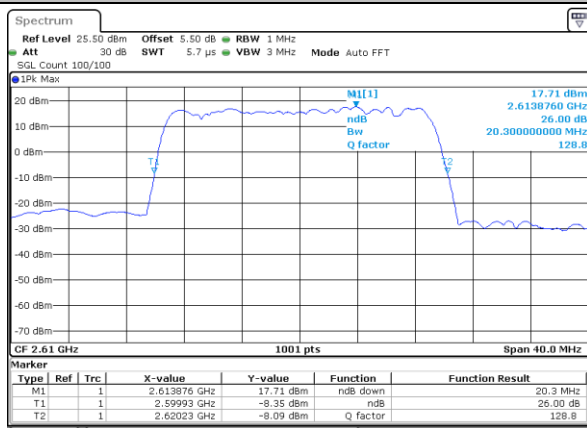
## Middle Channel / 20MHz / QPSK



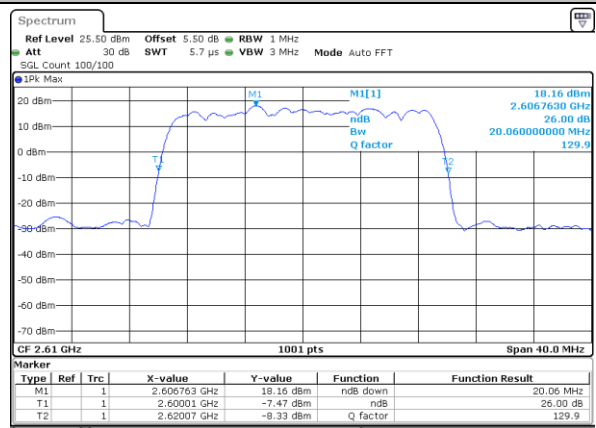
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



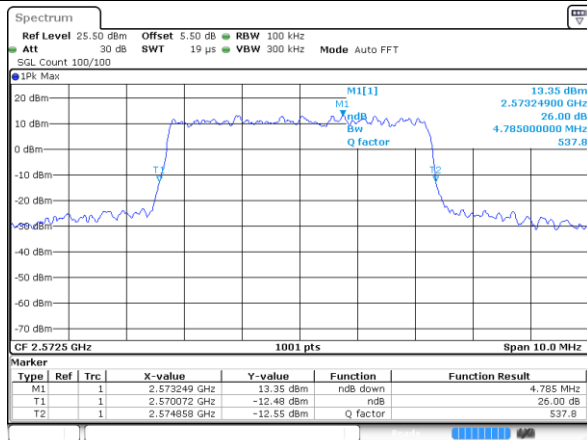
## Highest Channel / 20MHz / 16QAM





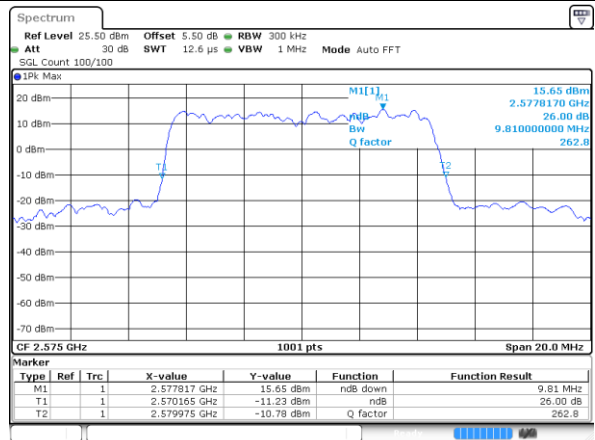
## LTE Band 38

## Lowest Channel / 5MHz / 64QAM



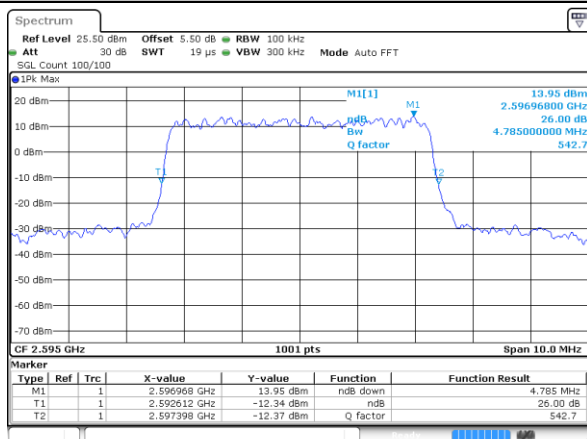
Date: 28 APR 2018 09:17:51

## Lowest Channel / 10MHz / 64QAM



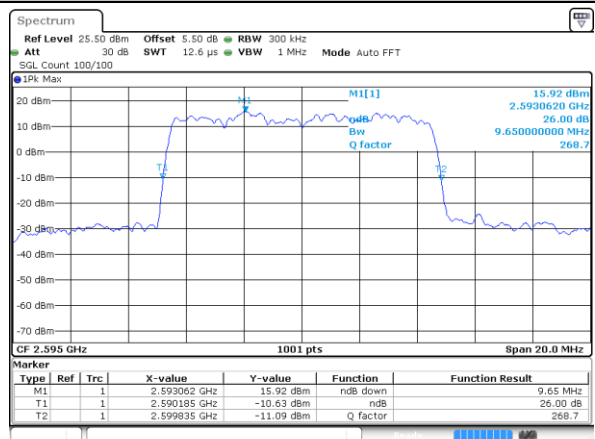
Date: 28 APR 2018 09:18:54

## Middle Channel / 5MHz / 64QAM



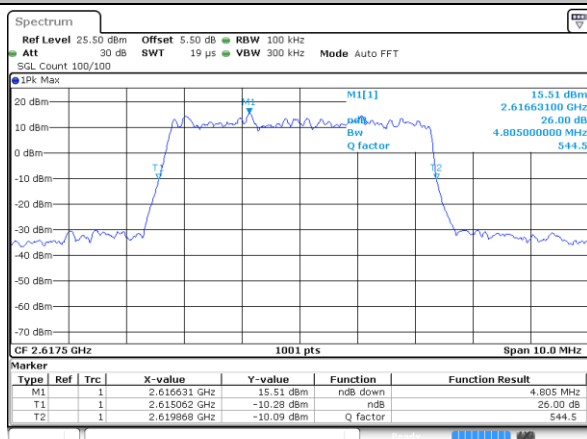
Date: 28 APR 2018 09:18:12

## Middle Channel / 10MHz / 64QAM



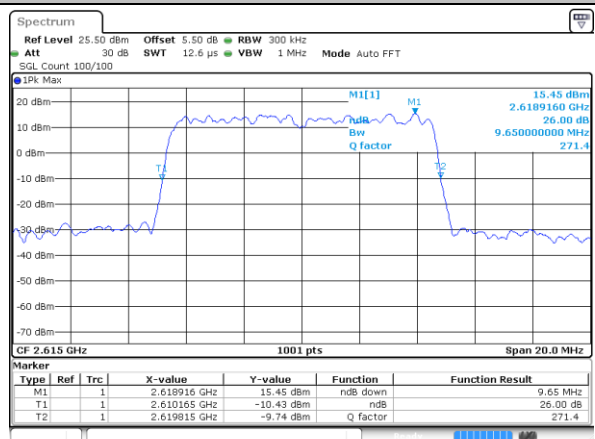
Date: 28 APR 2018 09:19:15

## Highest Channel / 5MHz / 64QAM



Date: 28 APR 2018 09:18:33

## Highest Channel / 10MHz / 64QAM

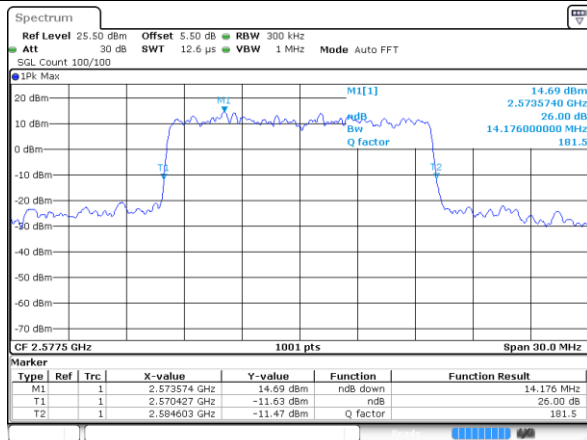


Date: 28 APR 2018 09:19:37



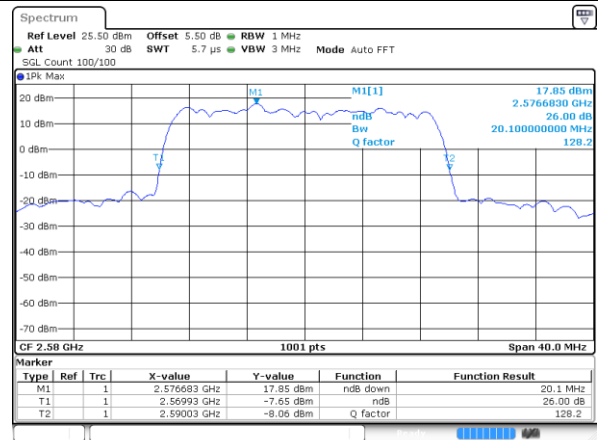
## LTE Band 38

## Lowest Channel / 15MHz / 64QAM



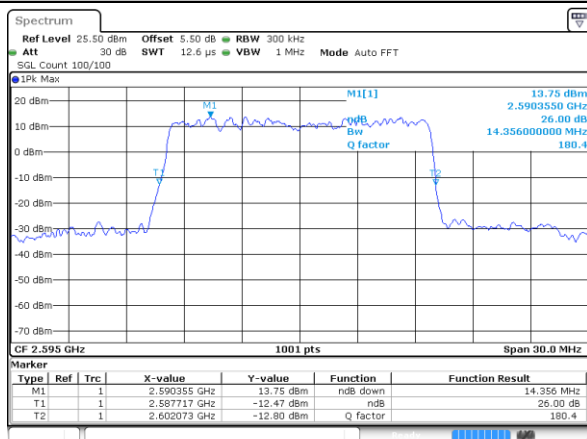
Date: 28 APR 2018 09:19:58

## Lowest Channel / 20MHz / 64QAM



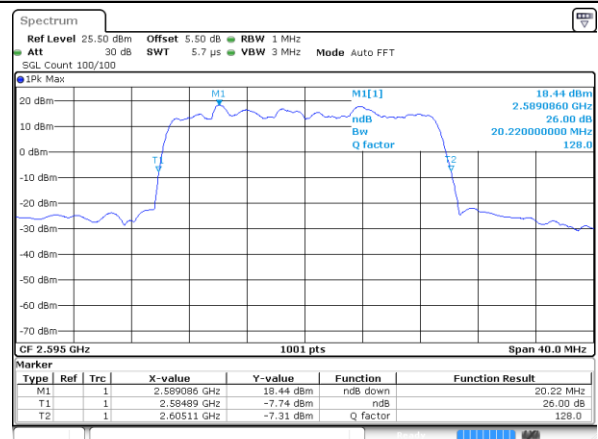
Date: 28 APR 2018 09:21:01

## Middle Channel / 15MHz / 64QAM



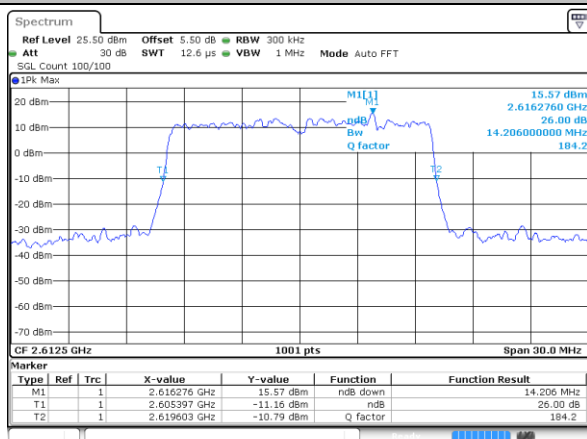
Date: 28 APR 2018 09:20:19

## Middle Channel / 20MHz / 64QAM



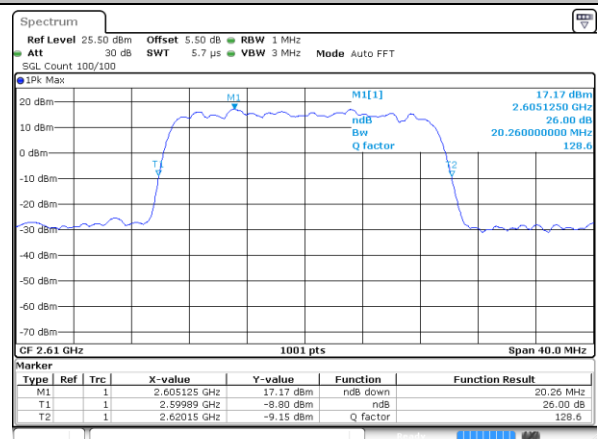
Date: 28 APR 2018 09:21:22

## Highest Channel / 15MHz / 64QAM



Date: 28 APR 2018 09:20:40

## Highest Channel / 20MHz / 64QAM



Date: 28 APR 2018 09:21:44

**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  | 2.7   | 2.72  | 4.5   | 4.49  | 9.17  | 9.13  | 13.49 | 13.52 | 18.22 | 18.42 |
| Middle CH  | 1.09                     | 1.1   | 2.71  | 2.71  | 4.5   | 4.48  | 9.03  | 9.09  | 13.43 | 13.43 | 18.3  | 18.54 |
| Highest CH | 1.08                     | 1.1   | 2.7   | 2.71  | 4.5   | 4.5   | 9.07  | 8.97  | 13.52 | 13.55 | 18.34 | 18.3  |
| Mode       | LTE Band 2 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                   |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                    |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | 1.08                     |       | 2.71  |       | 4.51  |       | 9.11  |       | 13.49 |       | 18.38 |       |
| Middle CH  | 1.09                     |       | 2.73  |       | 4.5   |       | 9.01  |       | 13.46 |       | 18.38 |       |
| Highest CH | 1.09                     |       | 2.72  |       | 4.49  |       | 9.09  |       | 13.49 |       | 18.42 |       |

| 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  | 1.09                     | 1.08  | 2.71  | 2.73  | 4.51  | 4.51  | 9.07  | 9.03  | 13.43 | 13.46 | 18.38 | 18.46 |
| Middle CH  | 1.09                     | 1.08  | 2.72  | 2.71  | 4.5   | 4.5   | 9.01  | 9.01  | 13.55 | 13.49 | 18.34 | 18.38 |
| Highest CH | 1.09                     | 1.09  | 2.71  | 2.69  | 4.5   | 4.5   | 9.01  | 8.99  | 13.46 | 13.55 | 18.3  | 18.54 |
| Mode       | LTE Band 4 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                   |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                    |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | 1.09                     |       | 2.72  |       | 4.51  |       | 9.01  |       | 13.49 |       | 18.42 |       |
| Middle CH  | 1.08                     |       | 2.73  |       | 4.50  |       | 9.07  |       | 13.46 |       | 18.46 |       |
| Highest CH | 1.08                     |       | 2.73  |       | 4.50  |       | 9.05  |       | 13.52 |       | 18.42 |       |



| 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  | 1.09                     | 1.09  | 2.72  | 2.7   | 4.49  | 4.49  | 9.07  | 8.97  | -     | -     | -     | -     |
| Middle CH  | 1.09                     | 1.09  | 2.7   | 2.72  | 4.53  | 4.49  | 9.07  | 9.07  | -     | -     | -     | -     |
| Highest CH | 1.1                      | 1.09  | 2.71  | 2.71  | 4.5   | 4.5   | 9.09  | 9.01  | -     | -     | -     | -     |
| Mode       | LTE Band 5 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                   |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                    |       | 64QAM |       | 64QAM |       | 64QAM |       |       |       |       |       |
| Lowest CH  | 1.1                      |       | 2.7   |       | 4.51  |       | 9.07  |       |       |       |       |       |
| Middle CH  | 1.09                     |       | 2.72  |       | 4.53  |       | 9.05  |       |       |       |       |       |
| Highest CH | 1.09                     |       | 2.72  |       | 4.51  |       | 8.99  |       |       |       |       |       |

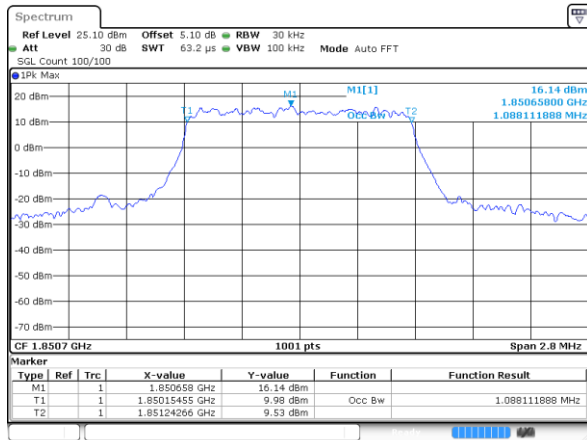
| Mode       | LTE Band 7 : 99%OBW(MHz) |       |      |       |       |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                        | -     | -    | -     | 4.53  | 4.51  | 9.05  | 9.05  | 13.49 | 13.46 | 18.3  | 18.42 |
| Middle CH  | -                        | -     | -    | -     | 4.49  | 4.51  | 9.01  | 9.03  | 13.46 | 13.55 | 18.46 | 18.26 |
| Highest CH | -                        | -     | -    | -     | 4.5   | 4.51  | 9.07  | 9.03  | 13.37 | 13.43 | 18.3  | 18.42 |
| Mode       | LTE Band 7 : 99%OBW(MHz) |       |      |       |       |       |       |       |       |       |       |       |
| BW         |                          |       |      |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       |                          |       |      |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                        | -     | -    | -     | 4.52  |       | 9.05  |       | 13.43 |       | 18.38 |       |
| Middle CH  | -                        | -     | -    | -     | 4.5   |       | 9.09  |       | 13.46 |       | 18.38 |       |
| Highest CH | -                        | -     | -    | -     | 4.49  |       | 9.07  |       | 13.46 |       | 18.3  |       |

| Mode       | LTE Band 38 : 99%OBW(MHz) |       |       |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 5MHz                      | 10MHz | 15MHz | 20MHz | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                     | 64QAM | 64QAM | 64QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 4.47                      | 9.01  | 13.43 | 18.26 | 4.5  | 4.49  | 8.97  | 9.01  | 13.49 | 13.46 | 18.38 | 18.22 |
| Middle CH  | 4.48                      | 9.05  | 13.46 | 18.54 | 4.49 | 4.48  | 9.03  | 9.05  | 13.52 | 13.43 | 18.34 | 18.38 |
| Highest CH | 4.5                       | 8.95  | 13.43 | 18.46 | 4.5  | 4.49  | 8.97  | 9.03  | 13.4  | 13.4  | 18.18 | 18.3  |



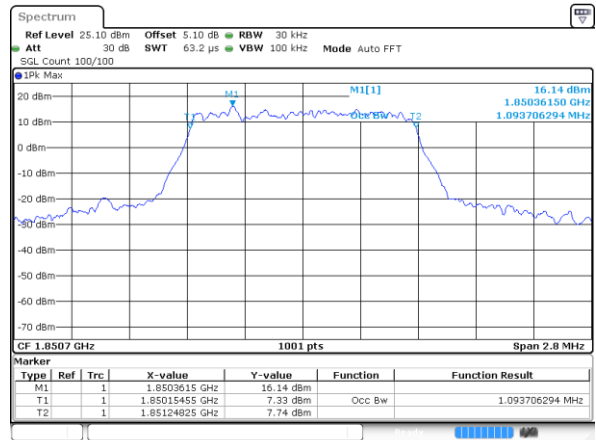
## LTE Band 2

## Lowest Channel / 1.4MHz / QPSK



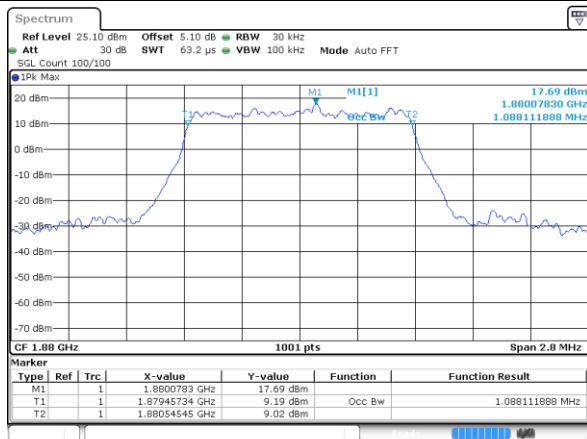
Date: 26 APR 2018 08:49:21

## Lowest Channel / 1.4MHz / 16QAM



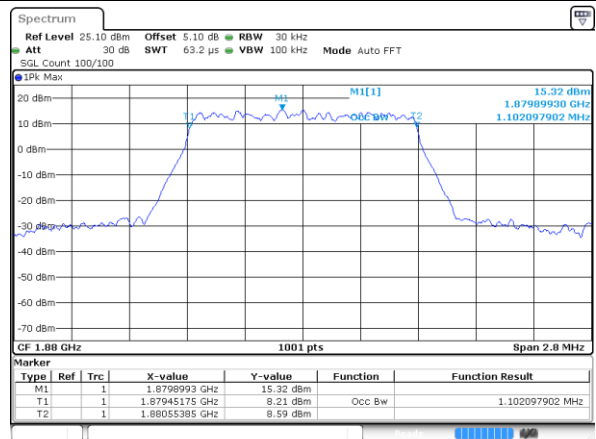
Date: 26 APR 2018 08:49:31

## Middle Channel / 1.4MHz / QPSK



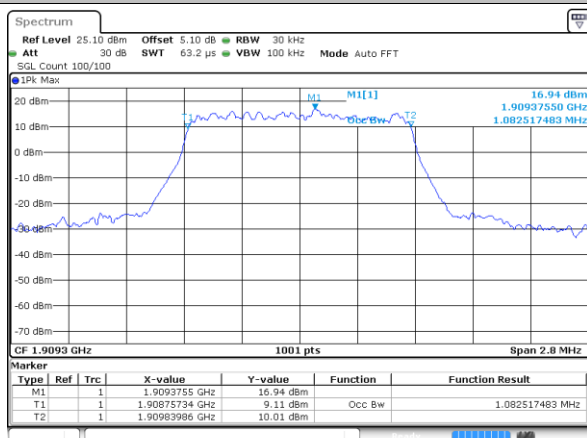
Date: 26 APR 2018 08:56:21

## Middle Channel / 1.4MHz / 16QAM



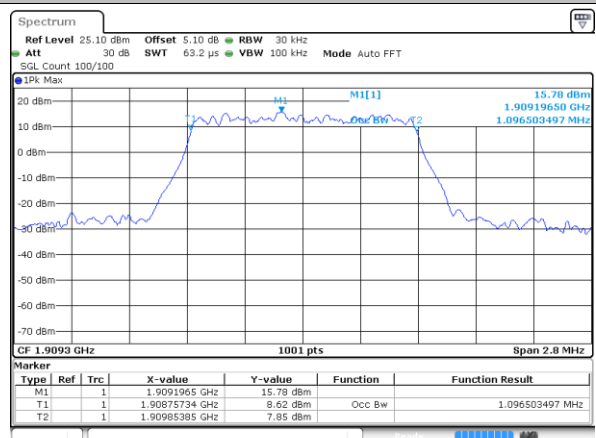
Date: 26 APR 2018 08:56:31

## Highest Channel / 1.4MHz / QPSK



Date: 26 APR 2018 08:56:49

## Highest Channel / 1.4MHz / 16QAM

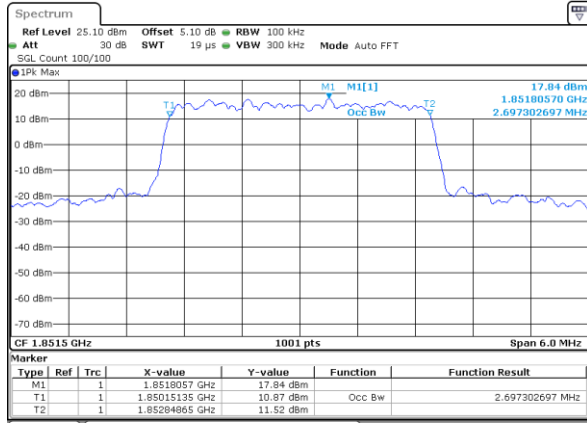


Date: 26 APR 2018 08:59:00



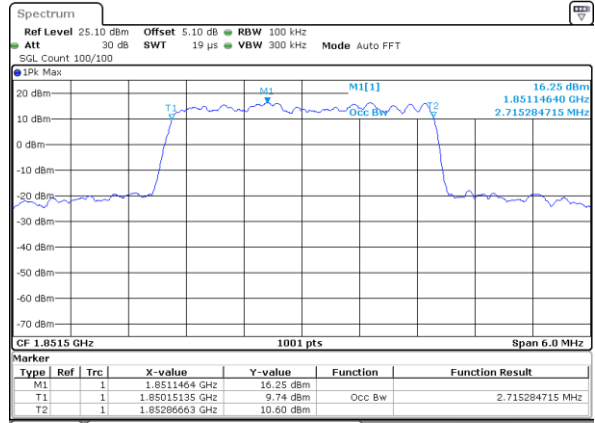
## LTE Band 2

## Lowest Channel / 3MHz / QPSK



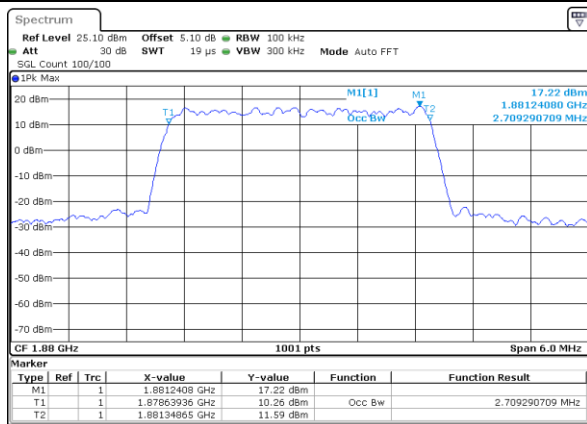
Date: 26 APR 2018 09:05:48

## Lowest Channel / 3MHz / 16QAM



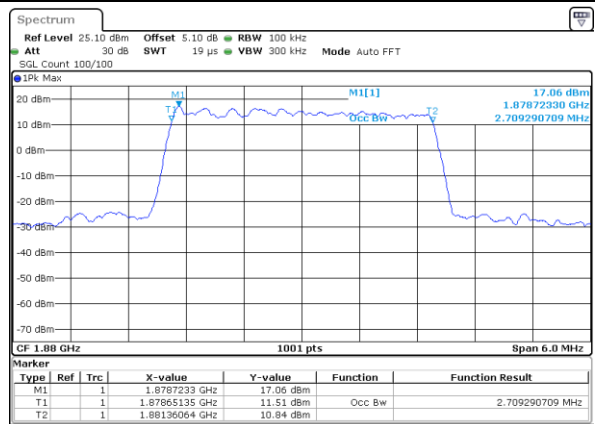
Date: 26 APR 2018 09:05:58

## Middle Channel / 3MHz / QPSK



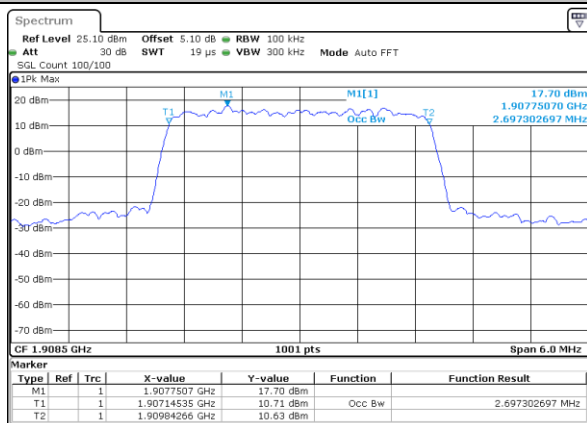
Date: 26 APR 2018 09:12:47

## Middle Channel / 3MHz / 16QAM



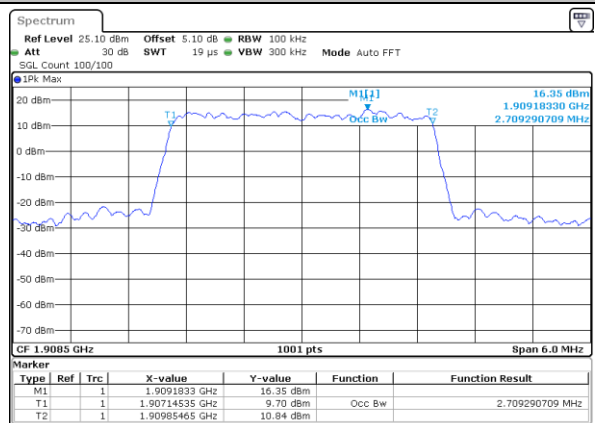
Date: 26 APR 2018 09:12:58

## Highest Channel / 3MHz / QPSK



Date: 26 APR 2018 09:15:17

## Highest Channel / 3MHz / 16QAM

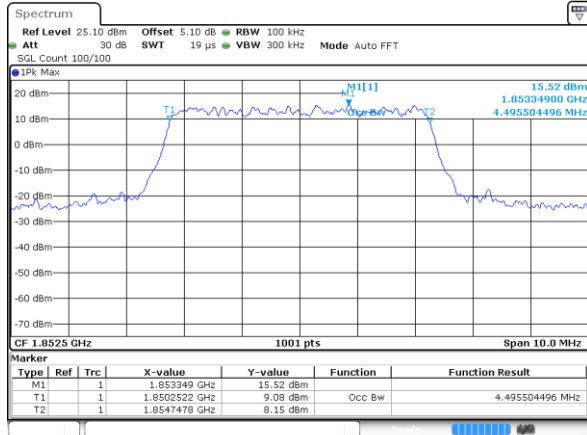


Date: 26 APR 2018 09:15:27

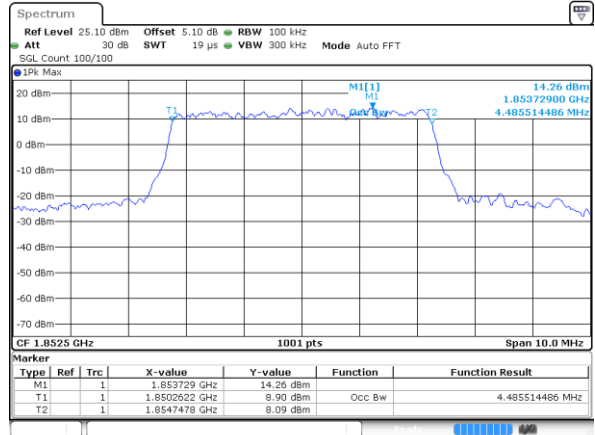


## LTE Band 2

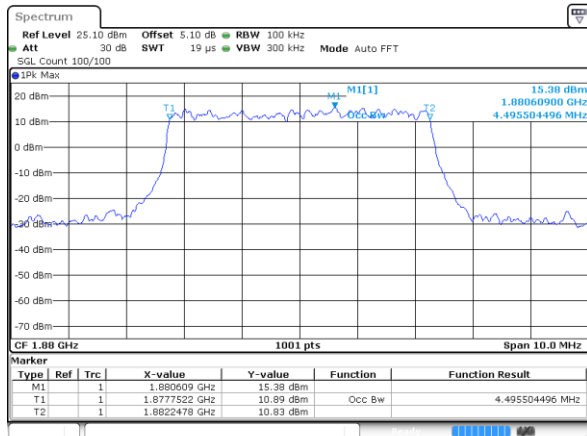
## Lowest Channel / 5MHz / QPSK



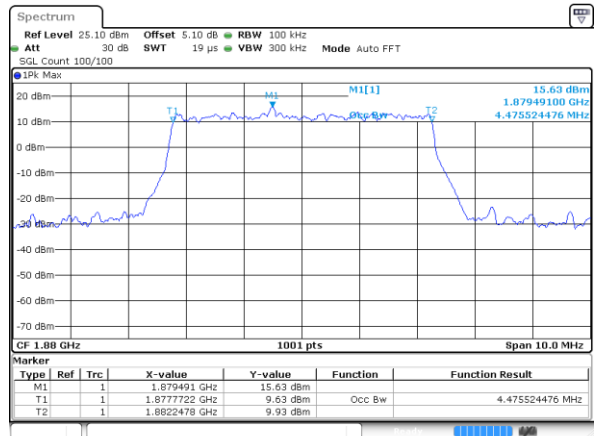
## Lowest Channel / 5MHz / 16QAM



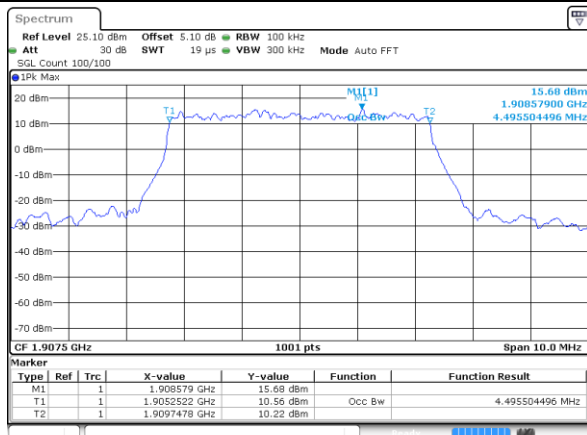
## Middle Channel / 5MHz / QPSK



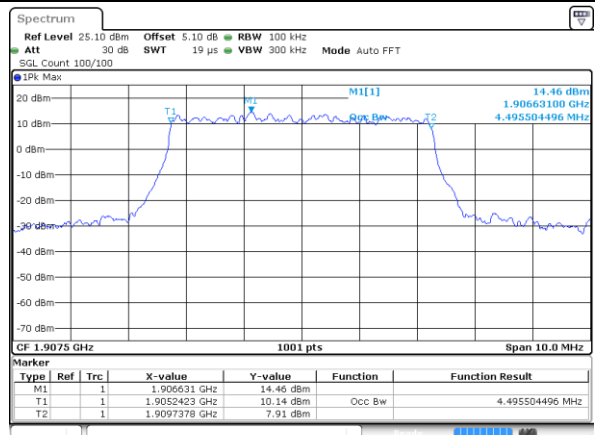
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



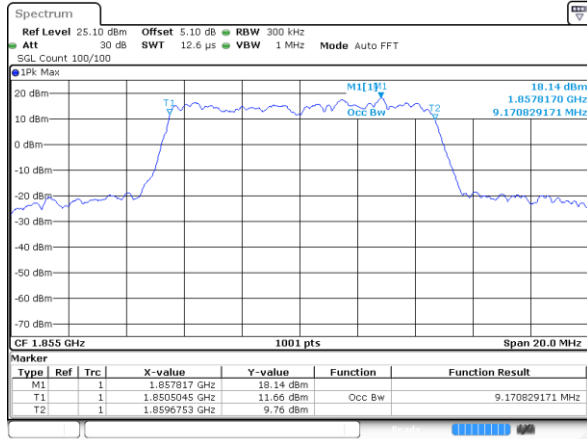
## Highest Channel / 5MHz / 16QAM





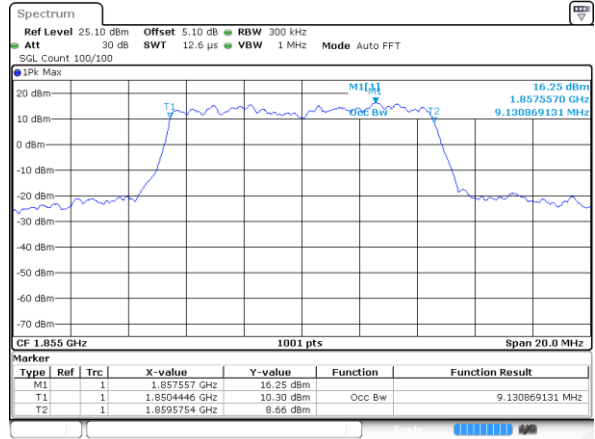
## LTE Band 2

## Lowest Channel / 10MHz / QPSK



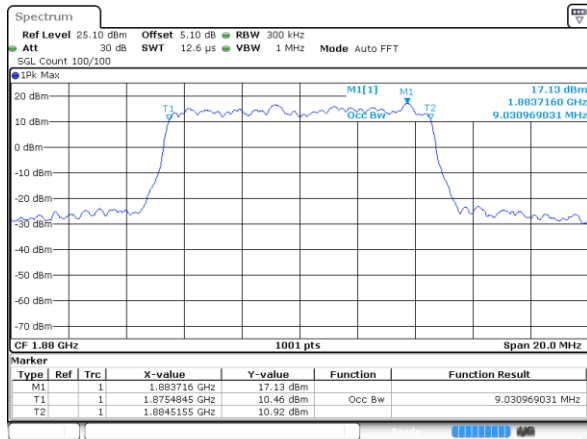
Date: 26 APR 2018 09:38:43

## Lowest Channel / 10MHz / 16QAM



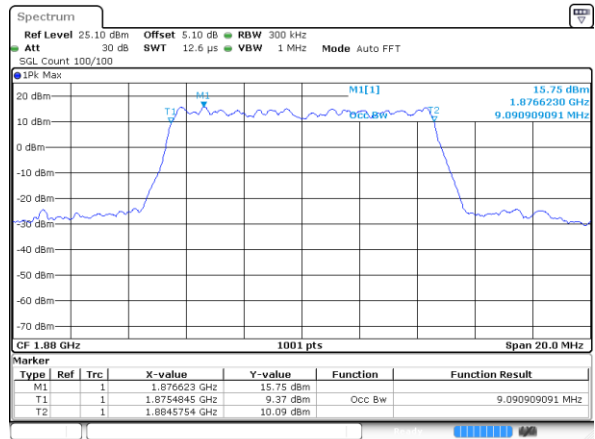
Date: 26 APR 2018 09:38:53

## Middle Channel / 10MHz / QPSK



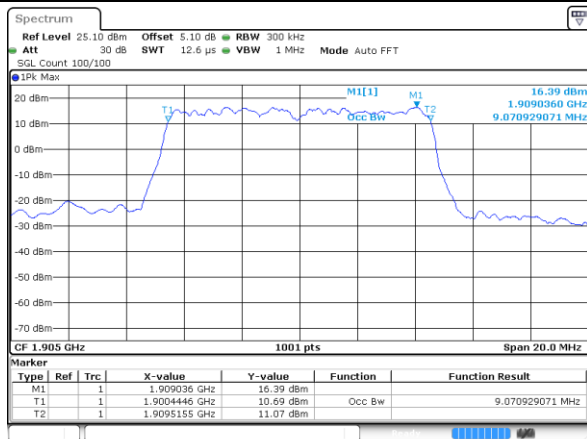
Date: 26 APR 2018 09:45:42

## Middle Channel / 10MHz / 16QAM



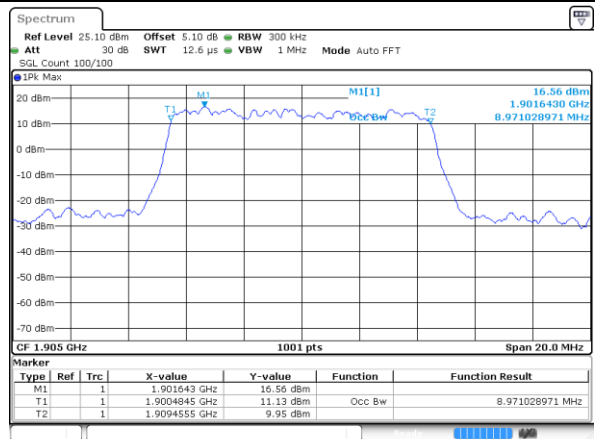
Date: 26 APR 2018 09:45:52

## Highest Channel / 10MHz / QPSK



Date: 26 APR 2018 09:48:11

## Highest Channel / 10MHz / 16QAM

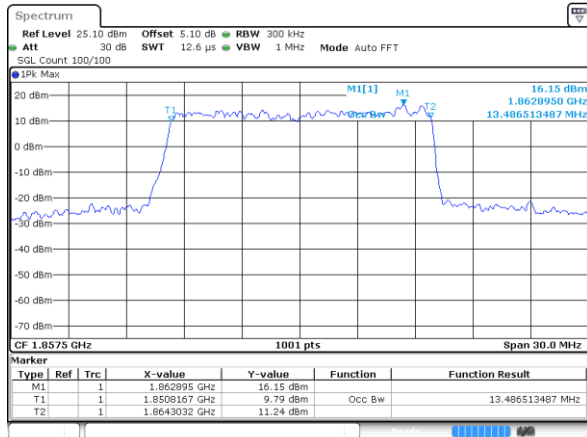


Date: 26 APR 2018 09:48:21

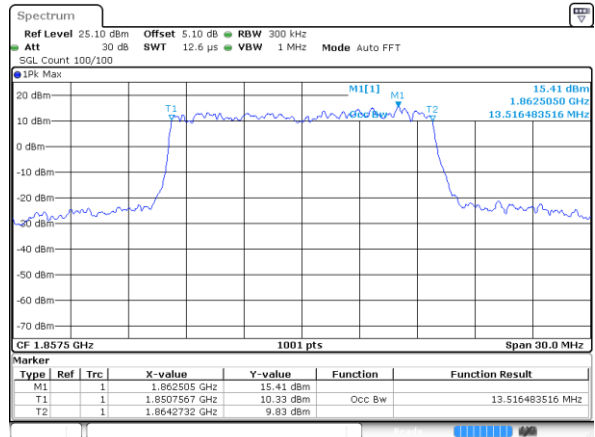


## LTE Band 2

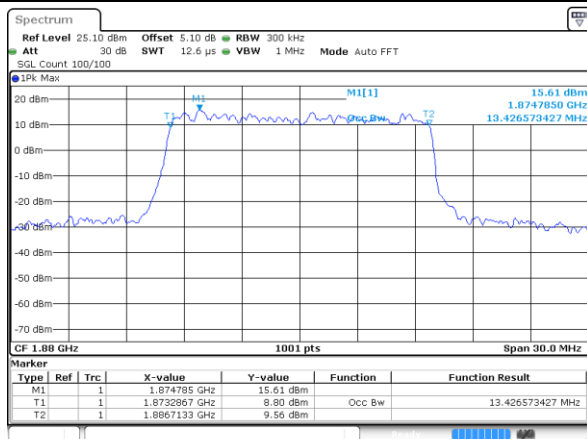
## Lowest Channel / 15MHz / QPSK



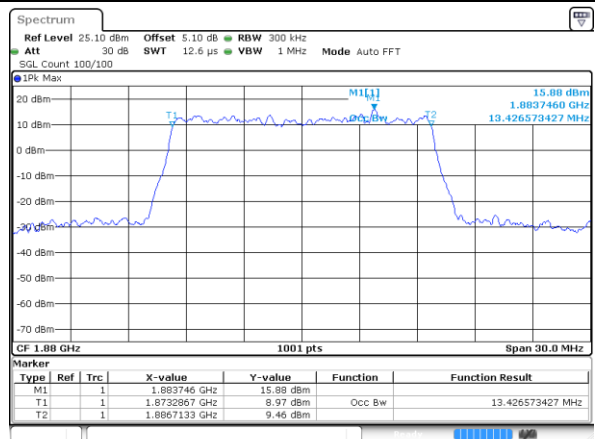
## Lowest Channel / 15MHz / 16QAM



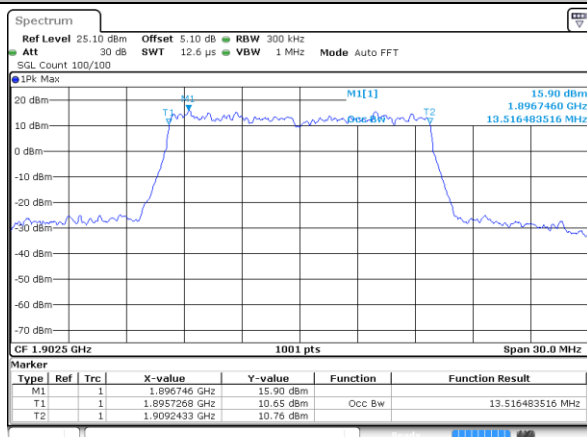
## Middle Channel / 15MHz / QPSK



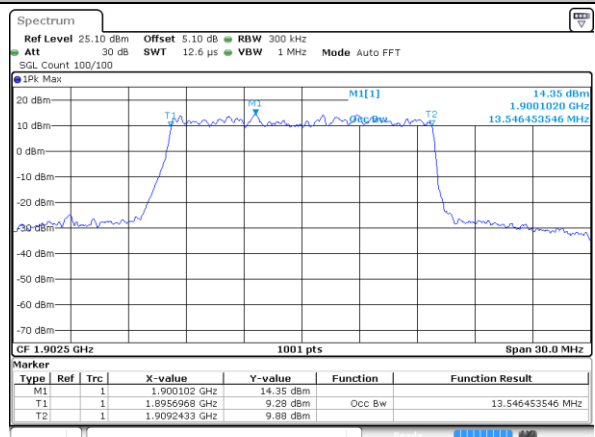
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



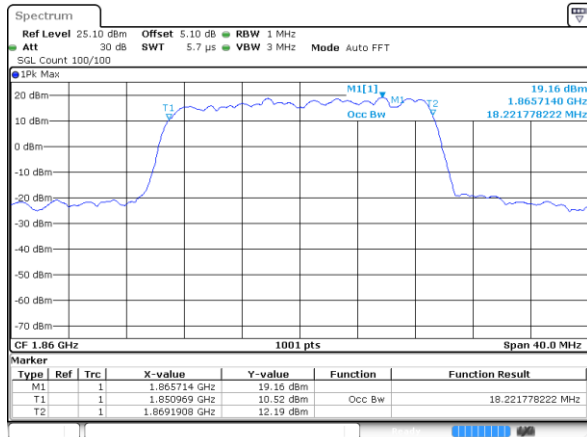
## Highest Channel / 15MHz / 16QAM





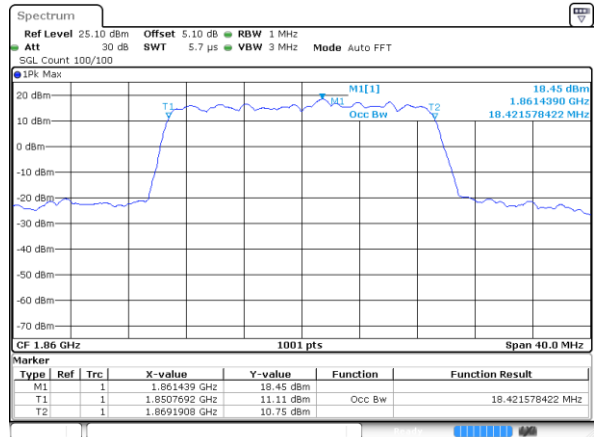
## LTE Band 2

## Lowest Channel / 20MHz / QPSK



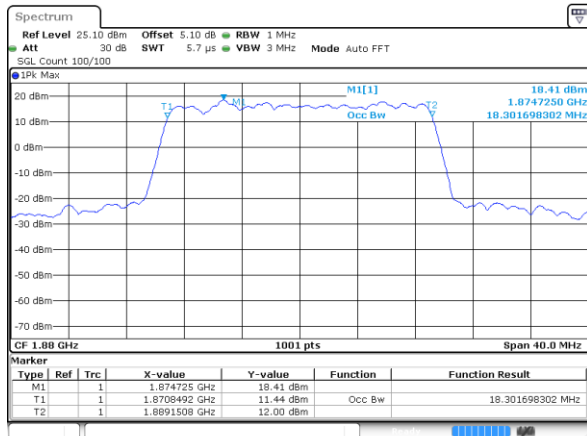
Date: 26 APR 2018 10:11:37

## Lowest Channel / 20MHz / 16QAM



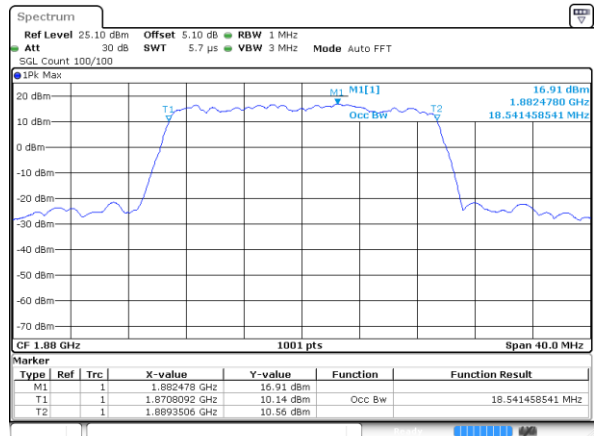
Date: 26 APR 2018 10:11:47

## Middle Channel / 20MHz / QPSK



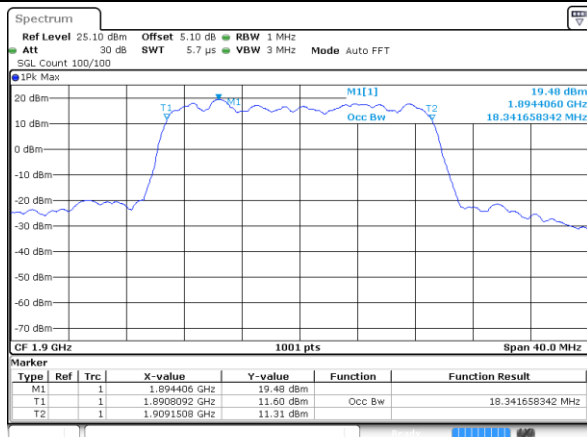
Date: 26 APR 2018 10:18:35

## Middle Channel / 20MHz / 16QAM



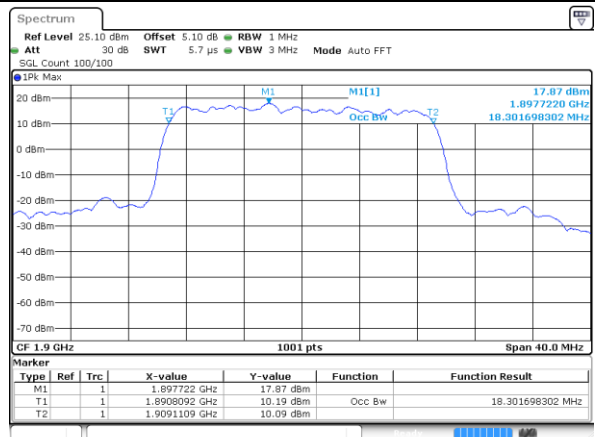
Date: 26 APR 2018 10:18:45

## Highest Channel / 20MHz / QPSK



Date: 26 APR 2018 10:21:04

## Highest Channel / 20MHz / 16QAM

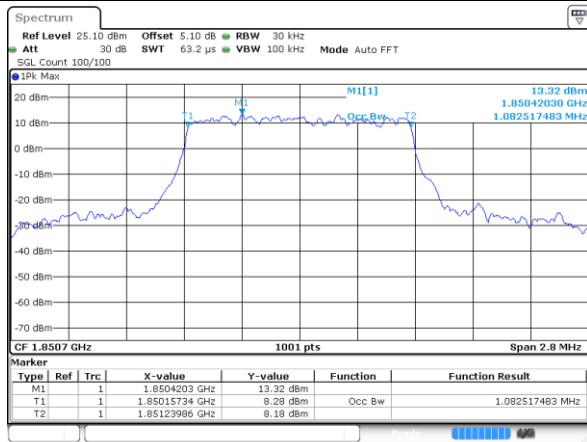


Date: 26 APR 2018 10:21:14



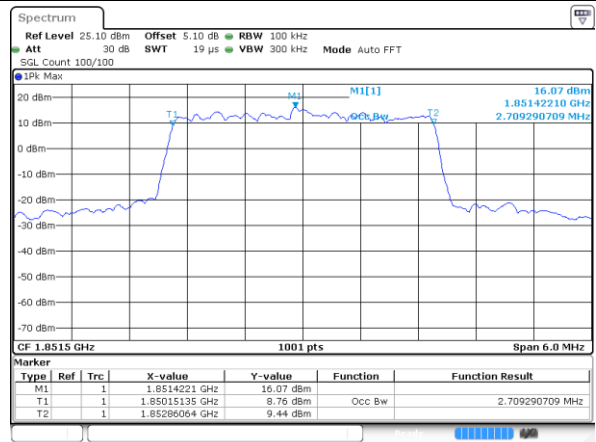
## LTE Band 2

## Lowest Channel / 1.4MHz / 64QAM



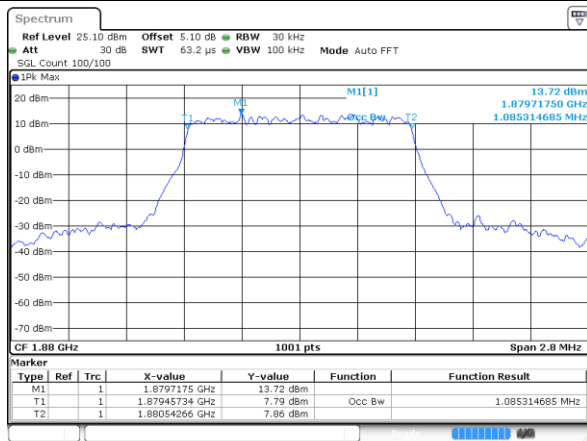
Date: 26 APR 2018 10:40:09

## Lowest Channel / 3MHz / 64QAM



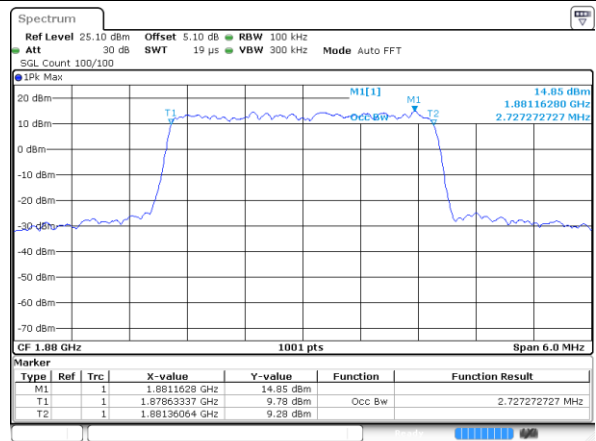
Date: 26 APR 2018 10:40:39

## Middle Channel / 1.4MHz / 64QAM



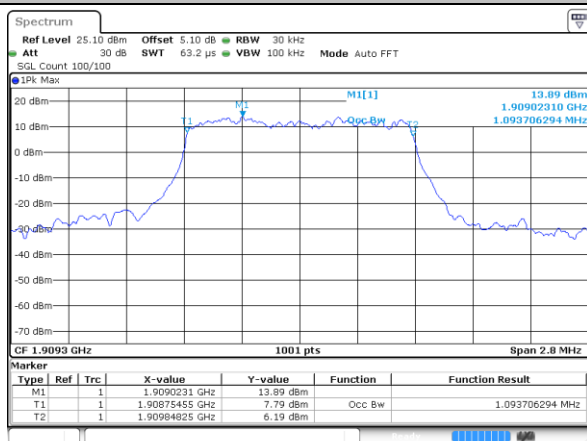
Date: 26 APR 2018 10:40:19

## Middle Channel / 3MHz / 64QAM



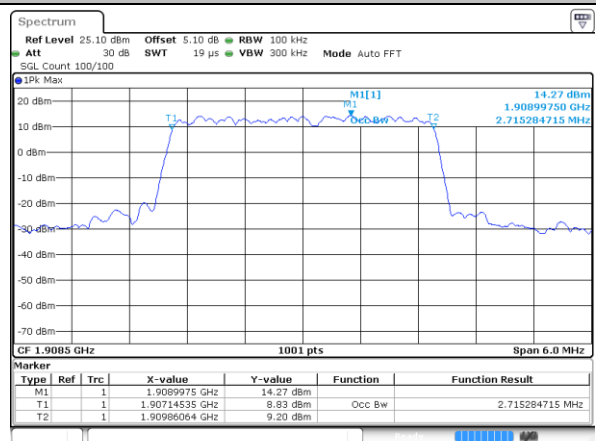
Date: 26 APR 2018 10:40:49

## Highest Channel / 1.4MHz / 64QAM



Date: 26 APR 2018 10:40:29

## Highest Channel / 3MHz / 64QAM

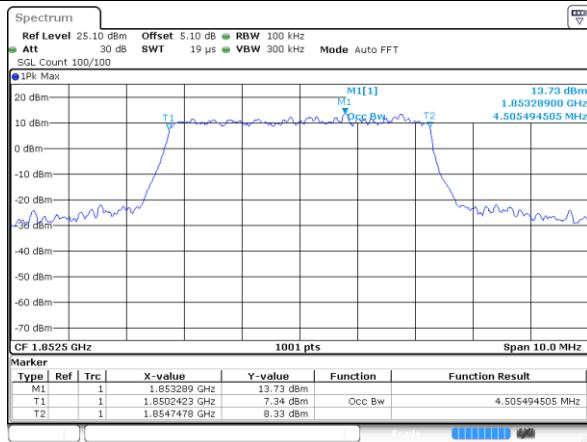


Date: 26 APR 2018 10:40:59



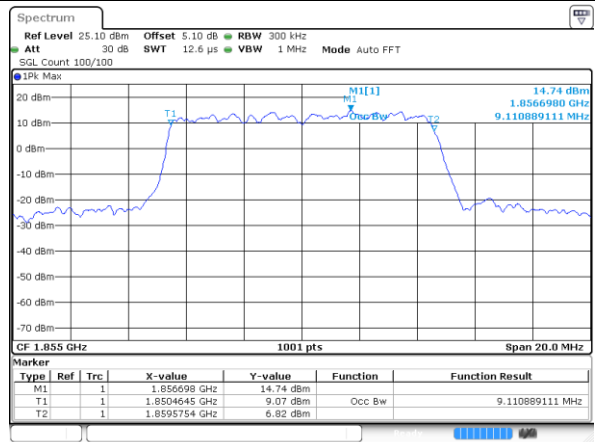
## LTE Band 2

## Lowest Channel / 5MHz / 64QAM



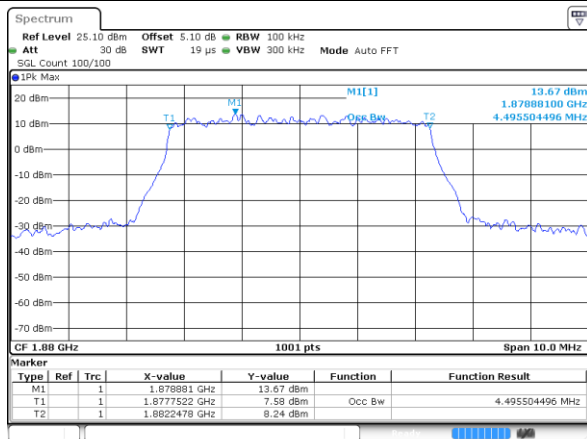
Date: 26 APR 2018 10:41:09

## Lowest Channel / 10MHz / 64QAM



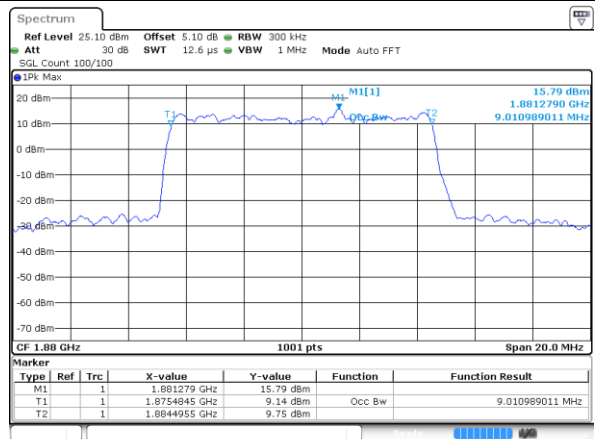
Date: 26 APR 2018 10:41:39

## Middle Channel / 5MHz / 64QAM



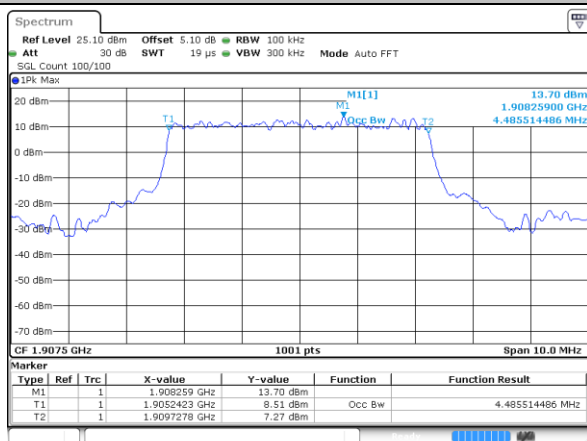
Date: 26 APR 2018 10:41:19

## Middle Channel / 10MHz / 64QAM



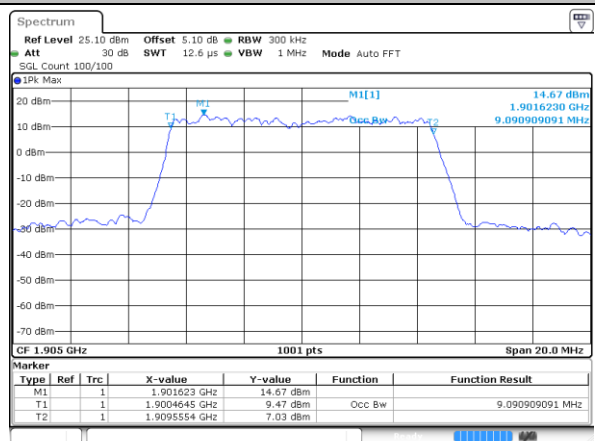
Date: 26 APR 2018 10:41:49

## Highest Channel / 5MHz / 64QAM



Date: 26 APR 2018 10:41:29

## Highest Channel / 10MHz / 64QAM



Date: 26 APR 2018 10:41:59