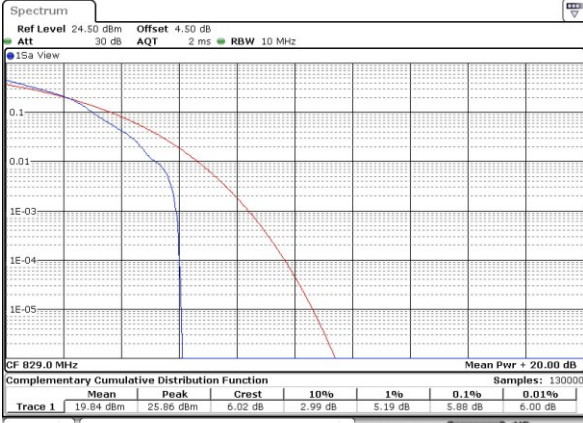




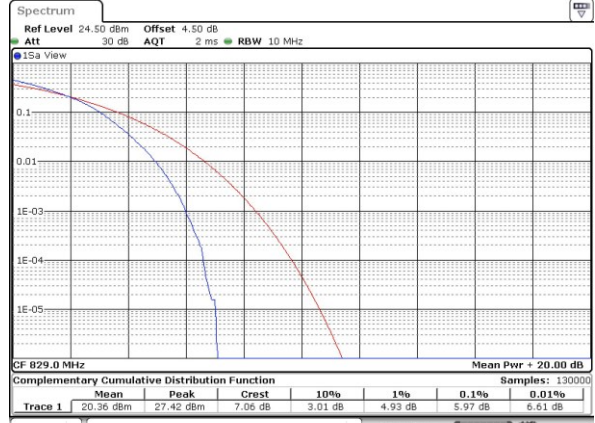
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 30 MAR 2019 07:30:23

Lowest Channel / Full RB



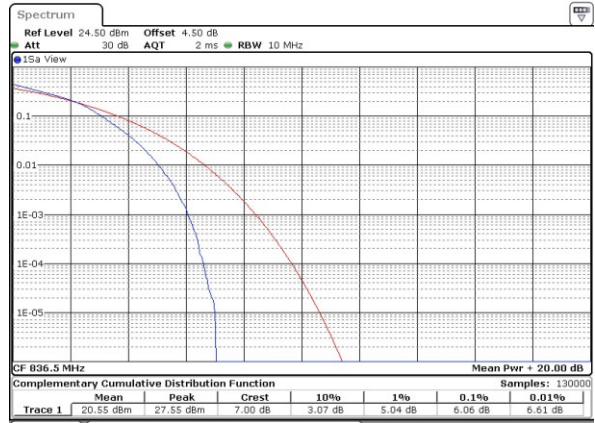
Date: 30 MAR 2019 07:30:35

Middle Channel / 1RB



Date: 30 MAR 2019 07:30:48

Middle Channel / Full RB



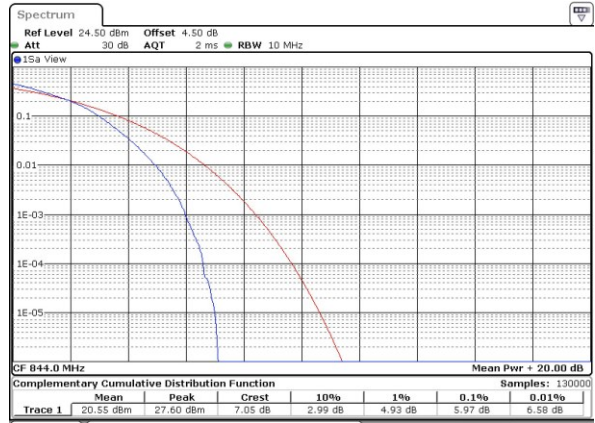
Date: 30 MAR 2019 07:31:00

Highest Channel / 1RB



Date: 30 MAR 2019 07:31:12

Highest Channel / Full RB

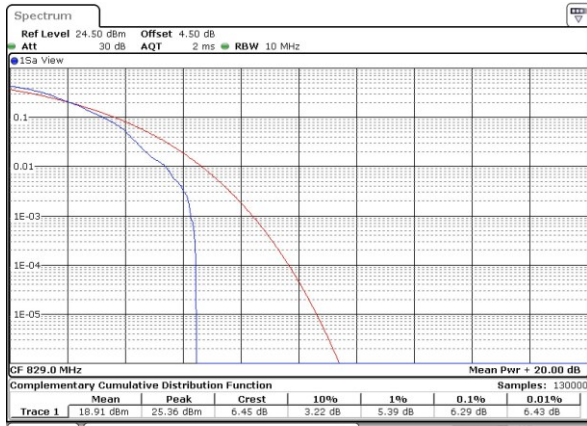


Date: 30 MAR 2019 07:31:24



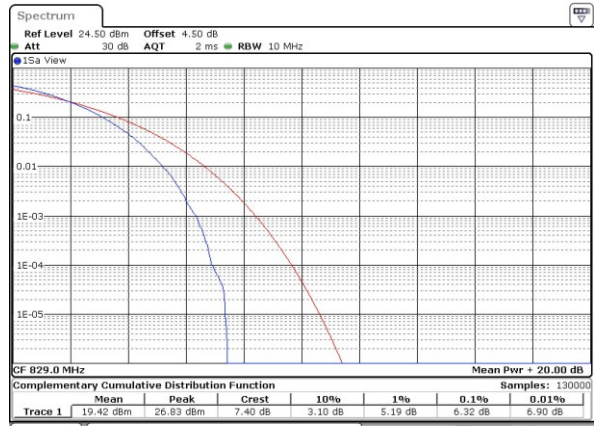
LTE Band 5 / 10MHz / 64QAM

Lowest Channel / 1RB



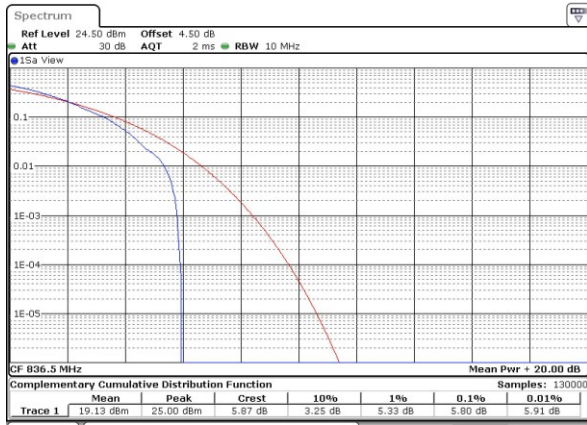
Date: 30 MAR 2019 07:29:58

Lowest Channel / Full RB



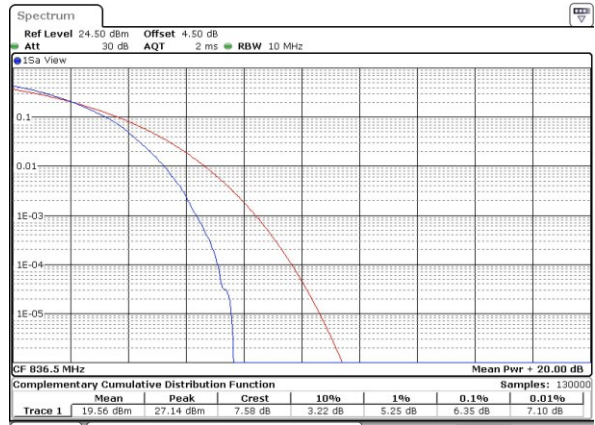
Date: 30 MAR 2019 07:30:11

Middle Channel / 1RB



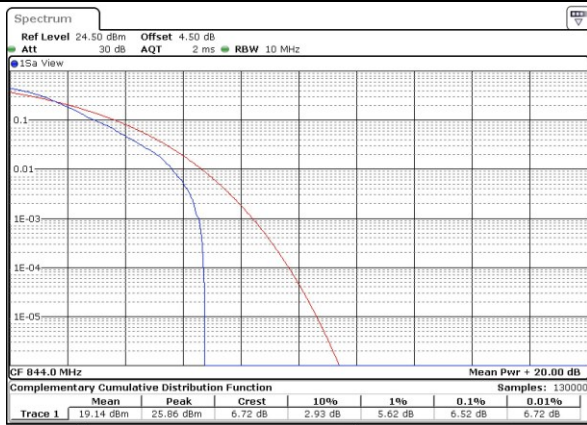
Date: 30 MAR 2019 07:29:45

Middle Channel / Full RB



Date: 30 MAR 2019 07:29:33

Highest Channel / 1RB



Date: 30 MAR 2019 07:29:07

Highest Channel / Full RB

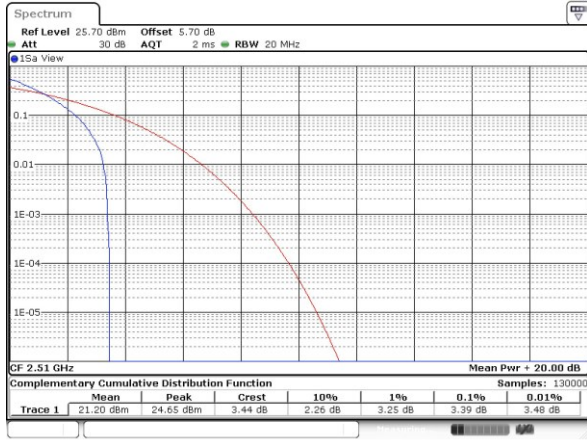


Date: 30 MAR 2019 07:29:20



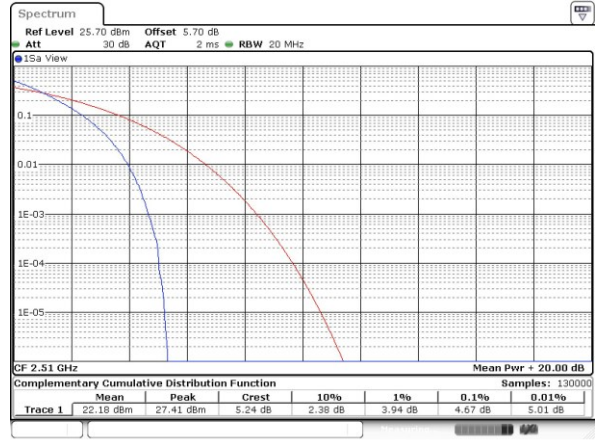
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



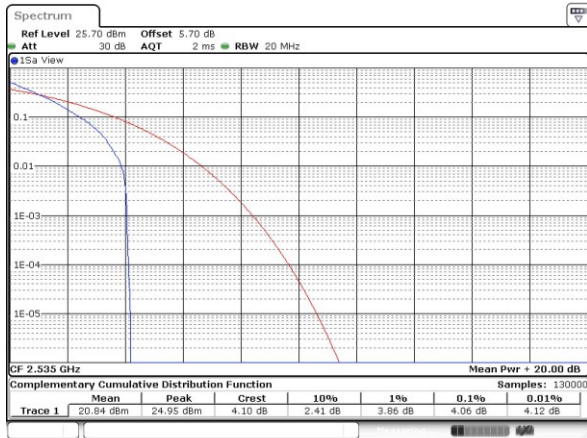
Date: 31 MAR 2019 02:35:10

Lowest Channel / Full RB



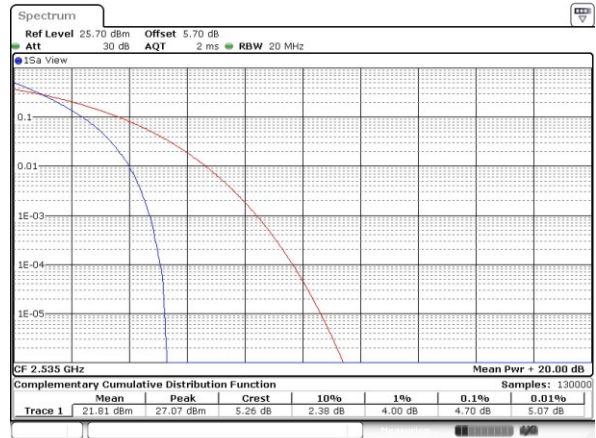
Date: 31 MAR 2019 02:38:15

Middle Channel / 1RB



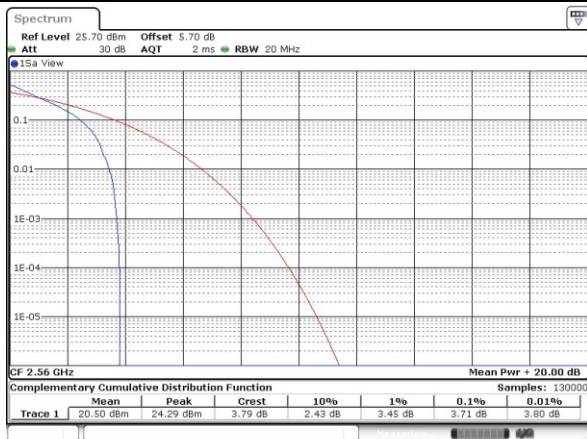
Date: 31 MAR 2019 02:36:03

Middle Channel / Full RB



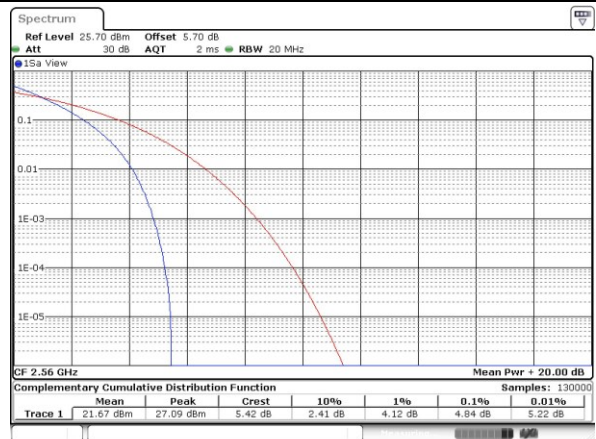
Date: 31 MAR 2019 02:38:09

Highest Channel / 1RB



Date: 31 MAR 2019 02:36:54

Highest Channel / Full RB

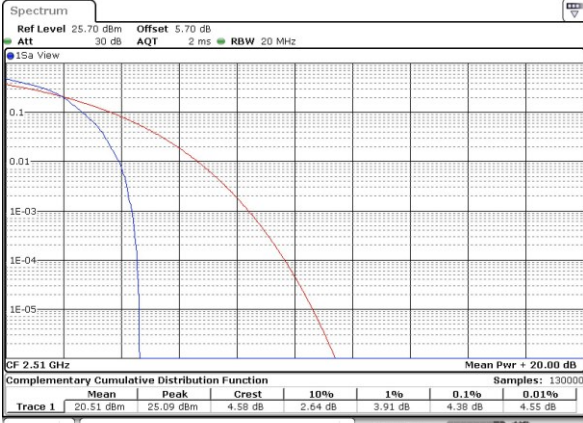


Date: 31 MAR 2019 02:40:20



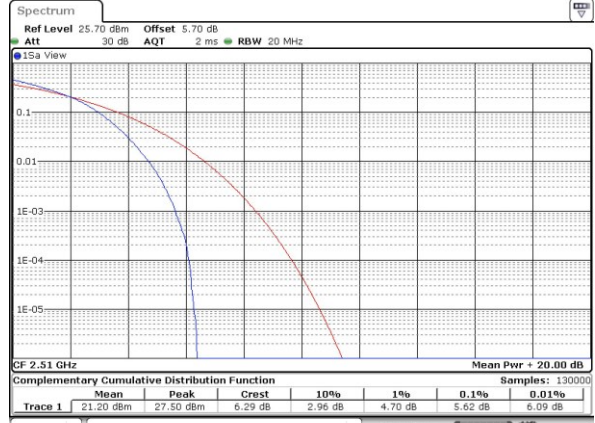
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 31 MAR 2019 02:35:26

Lowest Channel / Full RB



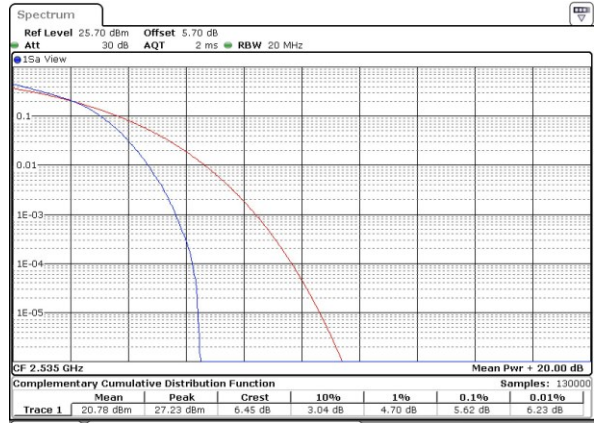
Date: 31 MAR 2019 02:38:33

Middle Channel / 1RB



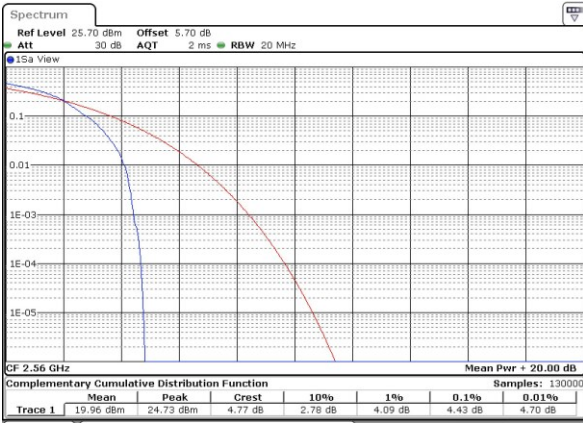
Date: 31 MAR 2019 02:36:20

Middle Channel / Full RB



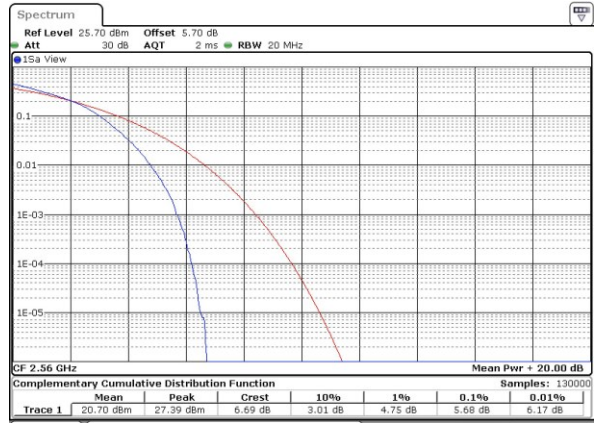
Date: 31 MAR 2019 02:39:26

Highest Channel / 1RB



Date: 31 MAR 2019 02:37:09

Highest Channel / Full RB

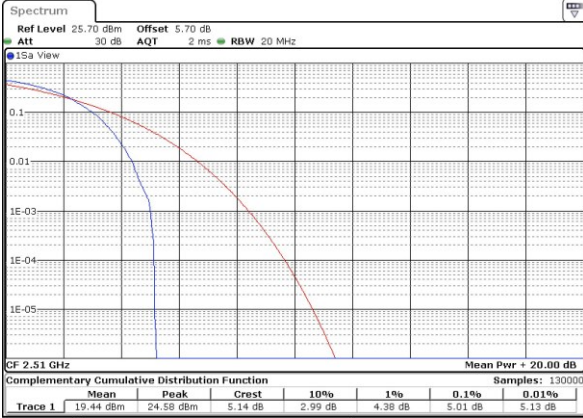


Date: 31 MAR 2019 02:40:41



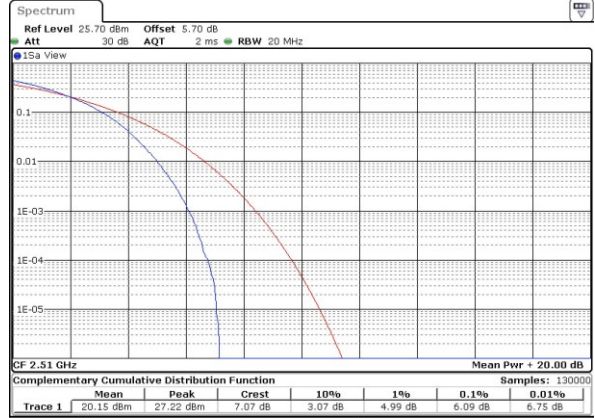
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



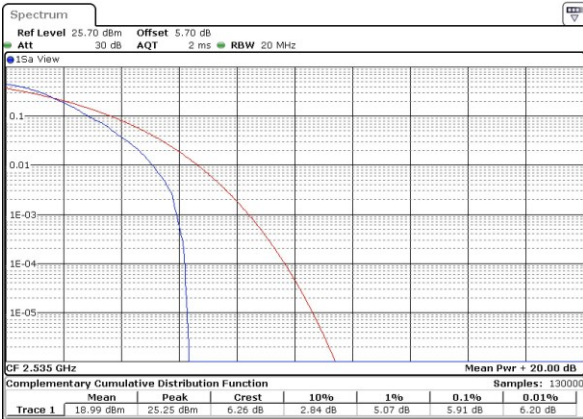
Date: 31.MAR.2019 02:35:43

Lowest Channel / Full RB



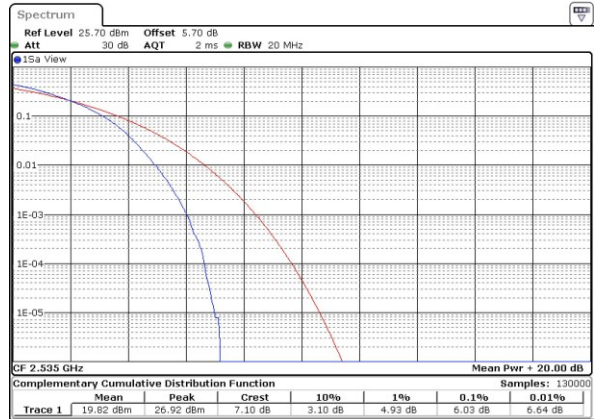
Date: 31.MAR.2019 02:38:50

Middle Channel / 1RB



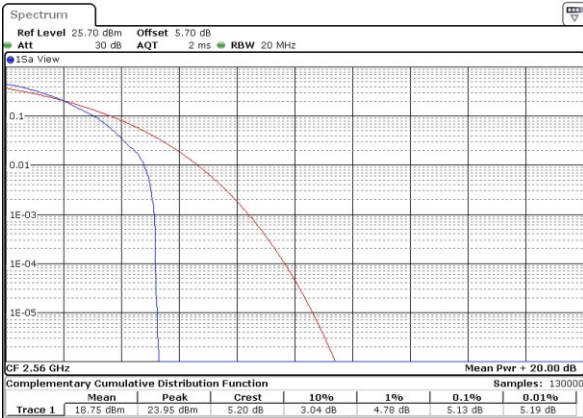
Date: 31.MAR.2019 02:38:36

Middle Channel / Full RB



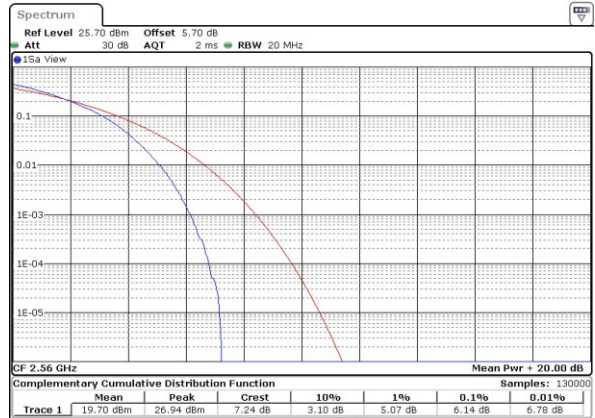
Date: 31.MAR.2019 02:38:58

Highest Channel / 1RB



Date: 31.MAR.2019 02:37:52

Highest Channel / Full RB

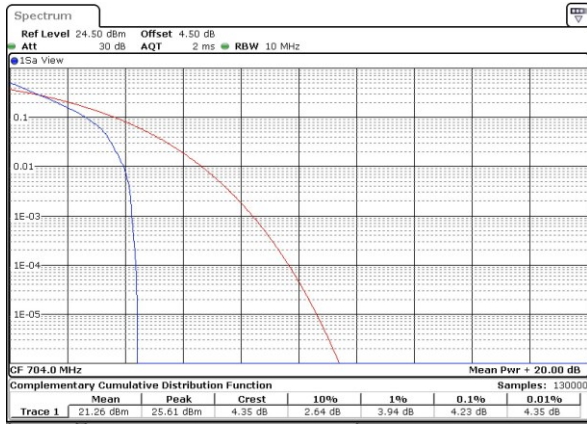


Date: 31.MAR.2019 02:41:08



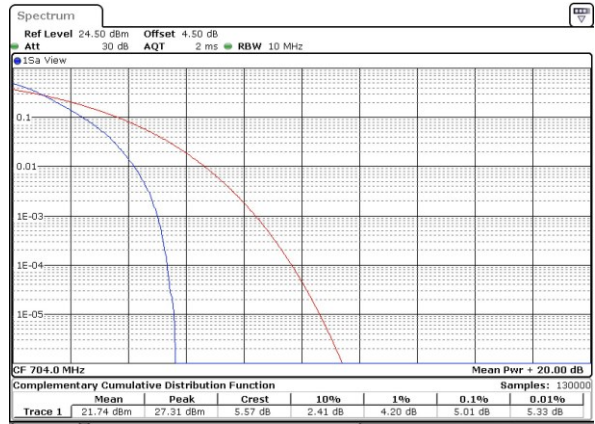
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



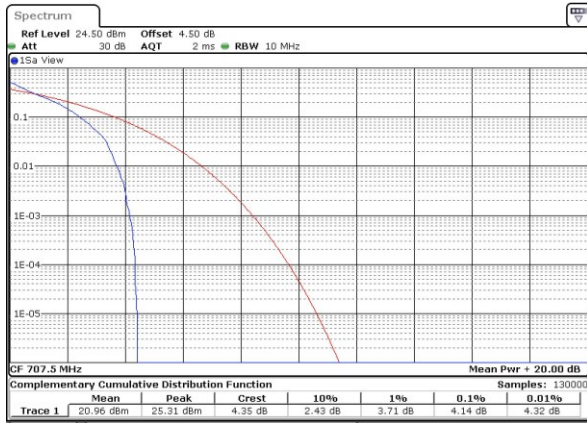
Date: 30 MAR 2019 23:30:00

Lowest Channel / Full RB



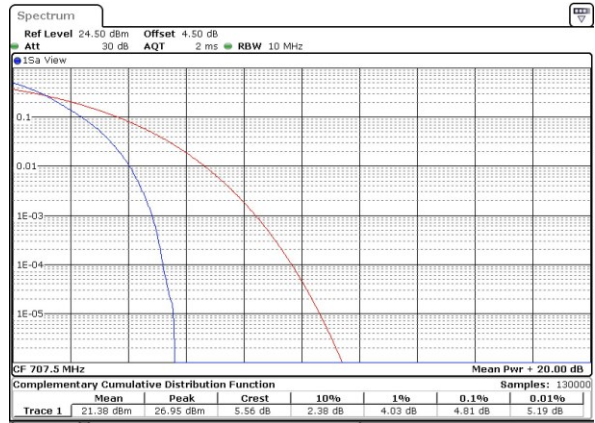
Date: 30 MAR 2019 23:30:13

Middle Channel / 1RB



Date: 30 MAR 2019 23:31:03

Middle Channel / Full RB



Date: 30 MAR 2019 23:30:50

Highest Channel / 1RB



Date: 30 MAR 2019 23:31:40

Highest Channel / Full RB

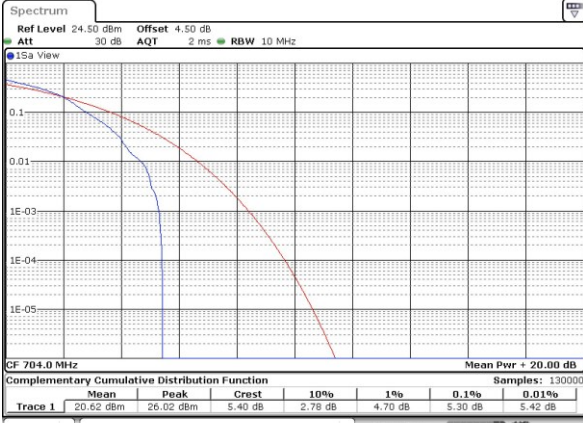


Date: 30 MAR 2019 23:31:53



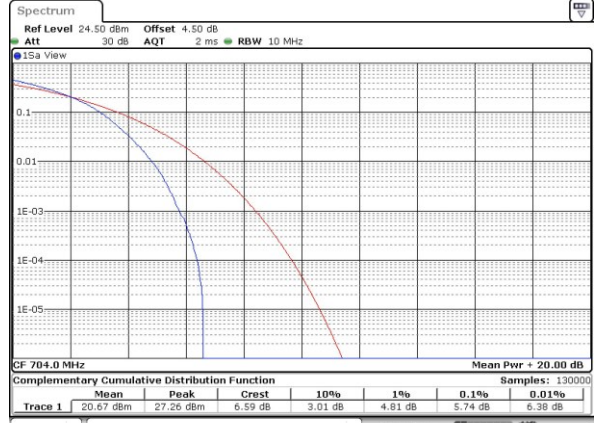
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 30 MAR 2019 23:29:47

Lowest Channel / Full RB



Date: 30 MAR 2019 23:30:26

Middle Channel / 1RB



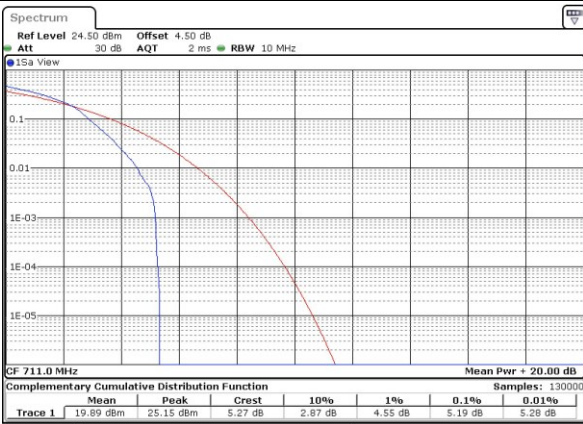
Date: 30 MAR 2019 23:31:15

Middle Channel / Full RB



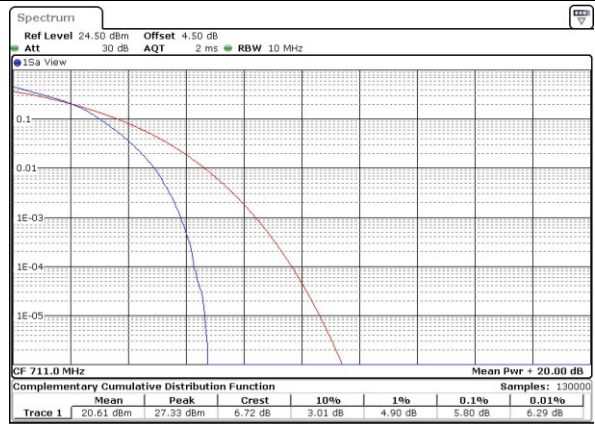
Date: 30 MAR 2019 23:30:38

Highest Channel / 1RB



Date: 30 MAR 2019 23:31:27

Highest Channel / Full RB

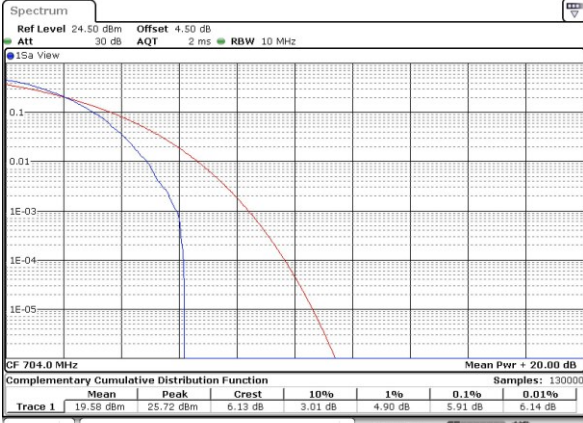


Date: 30 MAR 2019 23:32:05



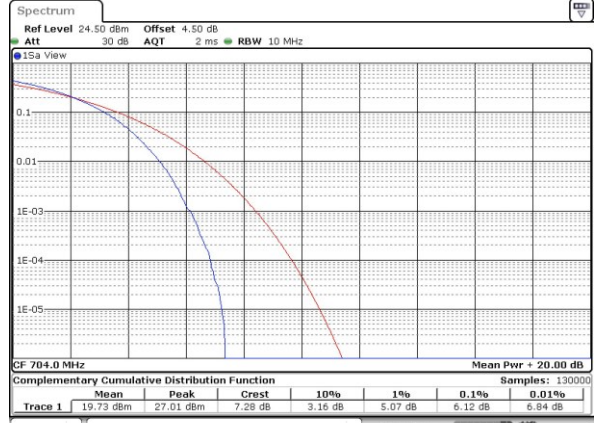
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



Date: 30 MAR 2019 23:28:32

Lowest Channel / Full RB



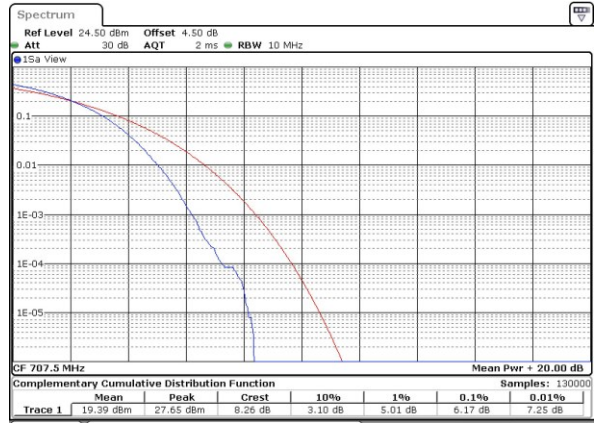
Date: 30 MAR 2019 23:28:44

Middle Channel / 1RB



Date: 30 MAR 2019 23:29:10

Middle Channel / Full RB



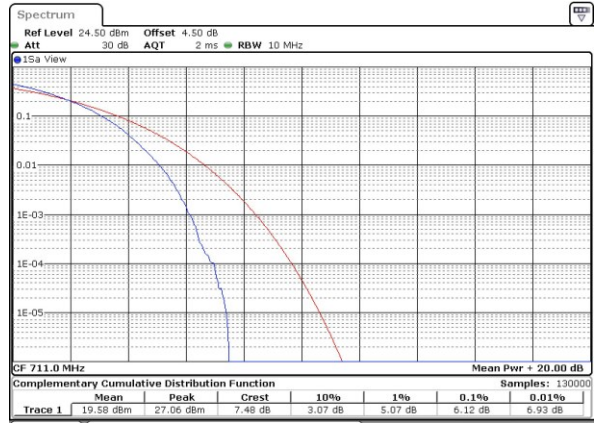
Date: 30 MAR 2019 23:28:57

Highest Channel / 1RB



Date: 30 MAR 2019 23:29:23

Highest Channel / Full RB



Date: 30 MAR 2019 23:29:35





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  | 1.262                     | 1.284 | 2.967 | 2.925 | 4.935 | 4.935 | 9.83  | 9.83  | 14.176 | 14.356 | 20.14 | 20.22 |
| Middle CH  | 1.267                     | 1.284 | 2.955 | 2.937 | 4.895 | 4.825 | 9.71  | 9.73  | 14.565 | 14.236 | 20.18 | 20.14 |
| Highest CH | 1.270                     | 1.276 | 2.949 | 2.961 | 4.885 | 4.855 | 9.77  | 9.79  | 14.296 | 14.505 | 20.22 | 20.14 |
| Mode       | LTE Band 2 : 26dB BW(MHz) |       |       |       |       |       |       |       |        |        |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz  |        | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM  |        | 64QAM |       |
| Lowest CH  | 1.287                     |       | 2.961 |       | 4.805 |       | 9.65  |       | 14.236 |        | 19.98 |       |
| Middle CH  | 1.270                     |       | 2.967 |       | 4.785 |       | 9.83  |       | 14.505 |        | 20.26 |       |
| Highest CH | 1.295                     |       | 2.967 |       | 4.825 |       | 9.71  |       | 14.476 |        | 20.18 |       |

| Mode       | LTE Band 4 : 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  | 1.267                     | 1.253 | 2.949 | 2.919 | 4.685 | 4.845 | 9.79  | 9.71  | 14.326 | 14.326 | 20.2  | 20.18 |
| Middle CH  | 1.278                     | 1.267 | 2.955 | 2.973 | 4.775 | 4.775 | 9.65  | 9.89  | 14.236 | 14.266 | 20.1  | 20.18 |
| Highest CH | 1.270                     | 1.292 | 2.949 | 2.991 | 4.895 | 4.775 | 9.75  | 9.67  | 14.266 | 14.236 | 20.14 | 20.1  |
| Mode       | LTE Band 4 : 26dB BW(MHz) |       |       |       |       |       |       |       |        |        |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz  |        | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM  |        | 64QAM |       |
| Lowest CH  | 1.287                     |       | 2.955 |       | 4.855 |       | 9.67  |       | 14.416 |        | 20.14 |       |
| Middle CH  | 1.253                     |       | 2.931 |       | 4.845 |       | 9.63  |       | 14.356 |        | 20.26 |       |
| Highest CH | 1.281                     |       | 2.931 |       | 4.835 |       | 9.77  |       | 14.386 |        | 20.14 |       |



| Mode       | LTE Band 5 : 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  | 1.284                     | 1.259 | 2.973 | 2.973 | 4.855 | 4.805 | 9.69  | 9.85  | -     | -     | -     | -     |
| Middle CH  | 1.276                     | 1.245 | 2.949 | 2.955 | 4.865 | 4.825 | 9.83  | 9.63  | -     | -     | -     | -     |
| Highest CH | 1.281                     | 1.242 | 2.961 | 2.973 | 4.905 | 4.795 | 9.77  | 9.73  | -     | -     | -     | -     |
| Mode       | LTE Band 5 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | 1.287                     |       | 2.925 |       | 4.795 |       | 9.77  |       | -     | -     | -     | -     |
| Middle CH  | 1.278                     |       | 2.967 |       | 4.835 |       | 9.79  |       | -     | -     | -     | -     |
| Highest CH | 1.276                     |       | 2.973 |       | 4.845 |       | 9.75  |       | -     | -     | -     | -     |

| Mode       | LTE Band 7 : 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  | -                         | -     | -     | -     | 4.925 | 4.885 | 9.83  | 9.81  | 14.236 | 14.476 | 20.26 | 20.14 |
| Middle CH  | -                         | -     | -     | -     | 4.865 | 4.855 | 9.77  | 9.71  | 14.446 | 14.266 | 20.18 | 20.26 |
| Highest CH | -                         | -     | -     | -     | 4.855 | 4.815 | 9.73  | 9.81  | 14.286 | 14.146 | 20.18 | 20.22 |
| Mode       | LTE Band 7 : 26dB BW(MHz) |       |       |       |       |       |       |       |        |        |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz  |        | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM  |        | 64QAM |       |
| Lowest CH  | -                         | -     | -     | -     | 4.865 |       | 9.81  |       | 14.146 |        | 20.22 |       |
| Middle CH  | -                         | -     | -     | -     | 4.885 |       | 9.69  |       | 14.296 |        | 20.14 |       |
| Highest CH | -                         | -     | -     | -     | 4.825 |       | 9.91  |       | 14.505 |        | 20.18 |       |

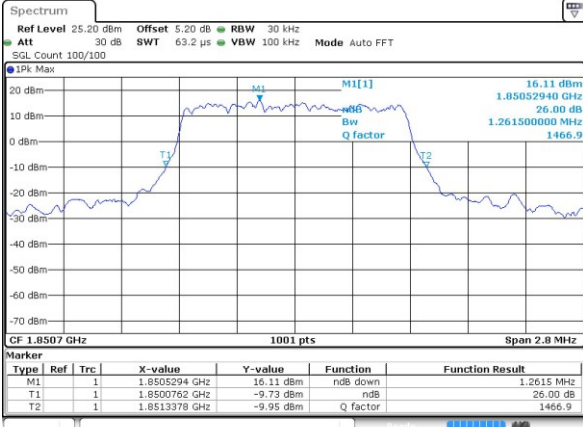


| Mode       | LTE Band 12 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
|------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                     |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                       | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.264                      | 1.284 | 2.967 | 2.931 | 5.285 | 5.035 | 9.91  | 9.81  | -     | -     | -     | -     |
| Middle CH  | 1.256                      | 1.292 | 2.991 | 2.955 | 5.045 | 4.985 | 9.69  | 10.01 | -     | -     | -     | -     |
| Highest CH | 1.264                      | 1.262 | 2.925 | 2.967 | 4.995 | 5.025 | 9.67  | 9.99  | -     | -     | -     | -     |
| Mode       | LTE Band 12 : 99%OBW(MHz)  |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                     |       | 3MHz  |       | 5MHz  |       | 10MHz |       |       |       |       |       |
| Mod.       | 64QAM                      |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | 1.298                      |       | 2.955 |       | 5.195 |       | 10.13 |       | -     | -     | -     | -     |
| Middle CH  | 1.304                      |       | 2.961 |       | 5.165 |       | 9.67  |       | -     | -     | -     | -     |
| Highest CH | 1.278                      |       | 2.907 |       | 5.005 |       | 9.99  |       | -     | -     | -     | -     |



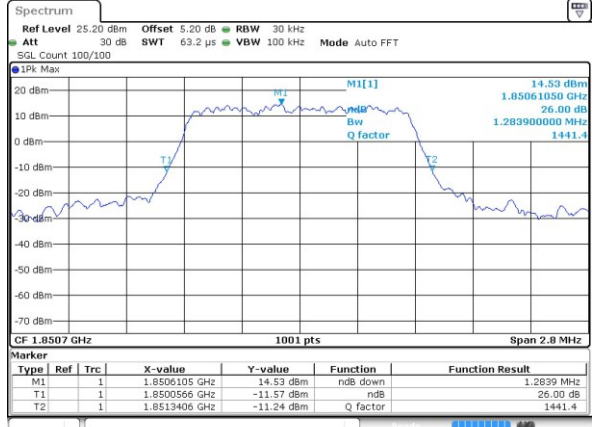
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



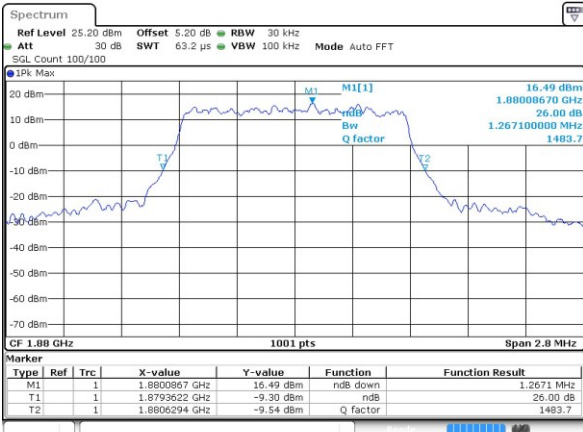
Date: 30 MAR 2019 00:03:33

Lowest Channel / 1.4MHz / 16QAM



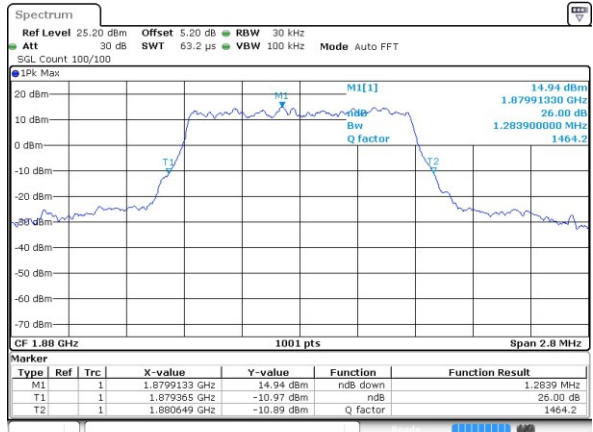
Date: 30 MAR 2019 00:03:48

Middle Channel / 1.4MHz / QPSK



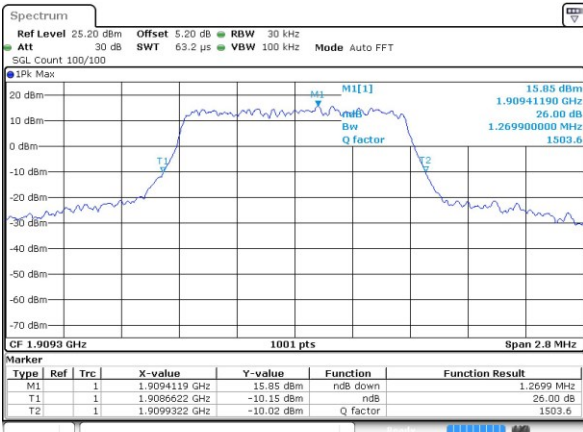
Date: 30 MAR 2019 00:08:40

Middle Channel / 1.4MHz / 16QAM



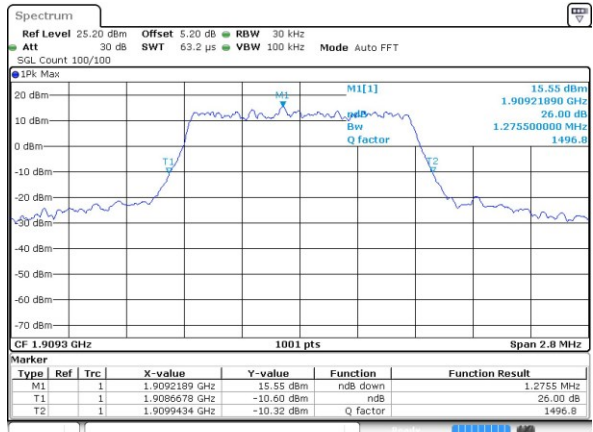
Date: 30 MAR 2019 00:08:53

Highest Channel / 1.4MHz / QPSK



Date: 30 MAR 2019 00:09:42

Highest Channel / 1.4MHz / 16QAM

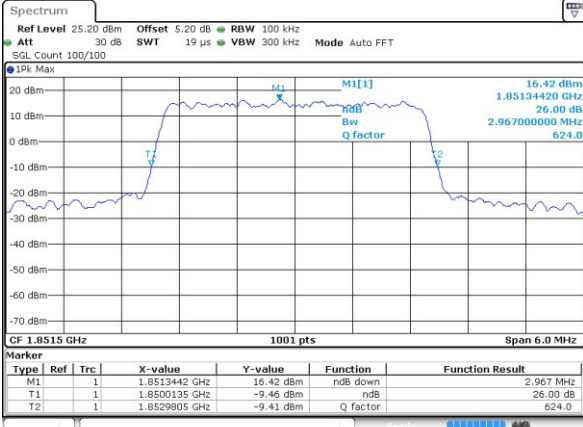


Date: 30 MAR 2019 00:09:55



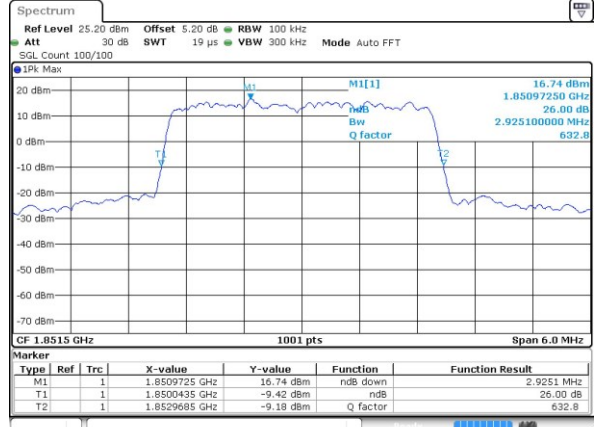
LTE Band 2

Lowest Channel / 3MHz / QPSK



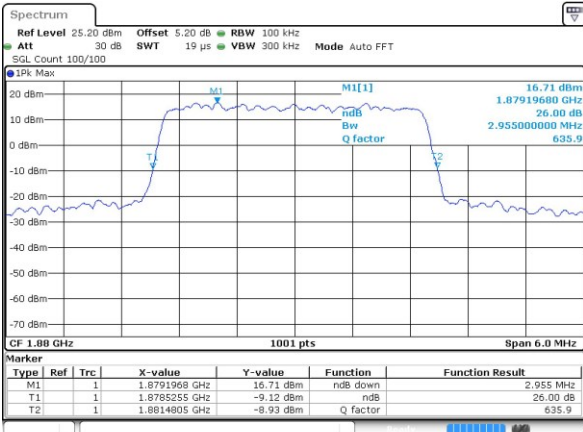
Date: 30 MAR 2019 00:14:48

Lowest Channel / 3MHz / 16QAM



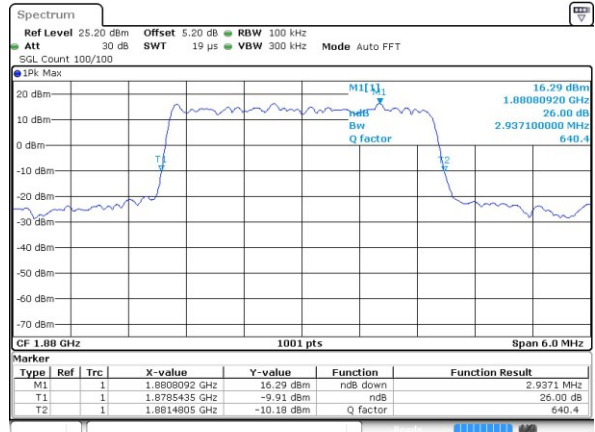
Date: 30 MAR 2019 00:15:00

Middle Channel / 3MHz / QPSK



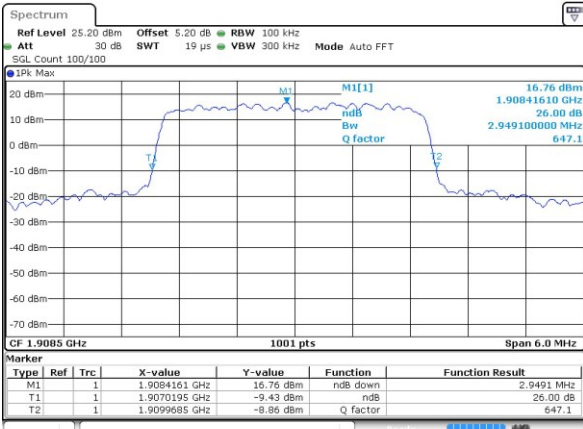
Date: 30 MAR 2019 00:19:37

Middle Channel / 3MHz / 16QAM



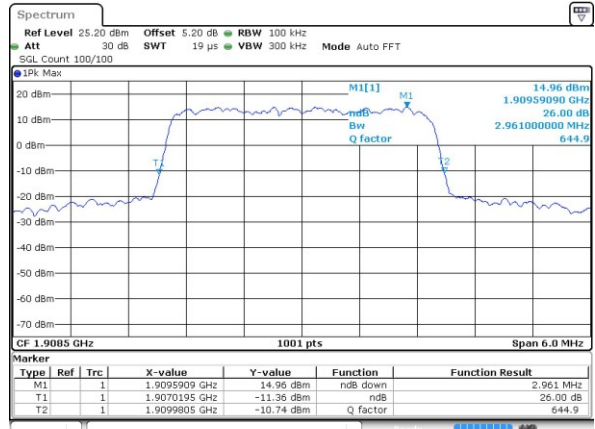
Date: 30 MAR 2019 00:19:49

Highest Channel / 3MHz / QPSK



Date: 30 MAR 2019 00:20:26

Highest Channel / 3MHz / 16QAM



Date: 30 MAR 2019 00:20:38