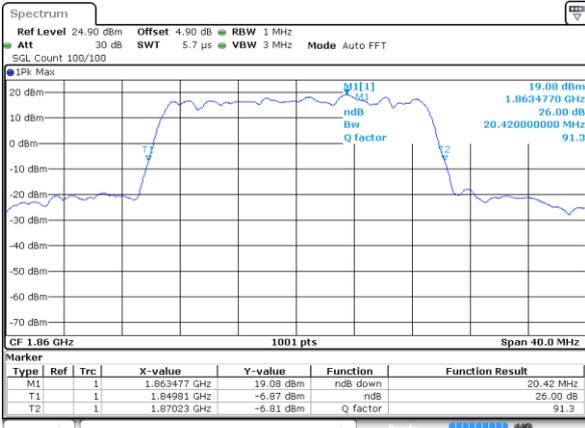




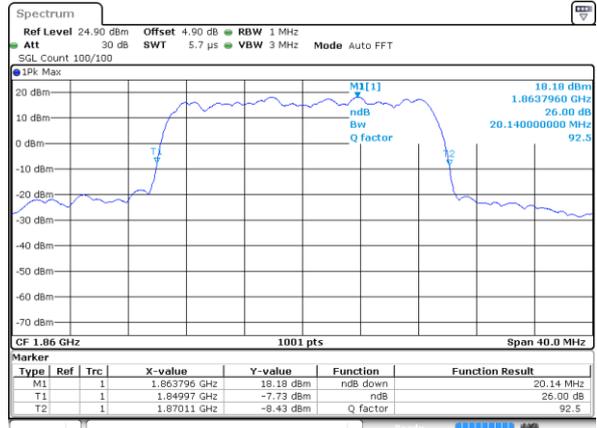
LTE Band 2

Lowest Channel / 20MHz / QPSK



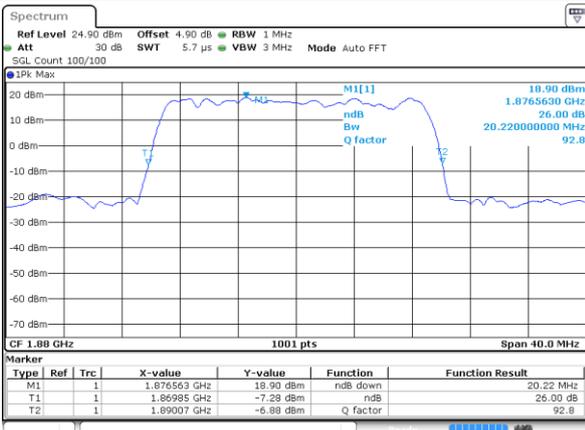
Date: 9 FEB 2018 09:39:24

Lowest Channel / 20MHz / 16QAM



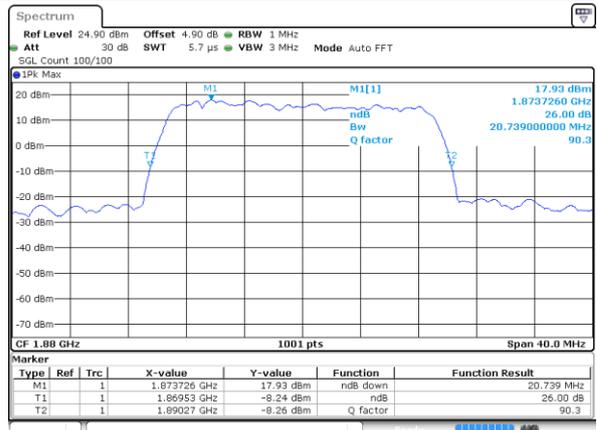
Date: 9 FEB 2018 09:39:34

Middle Channel / 20MHz / QPSK



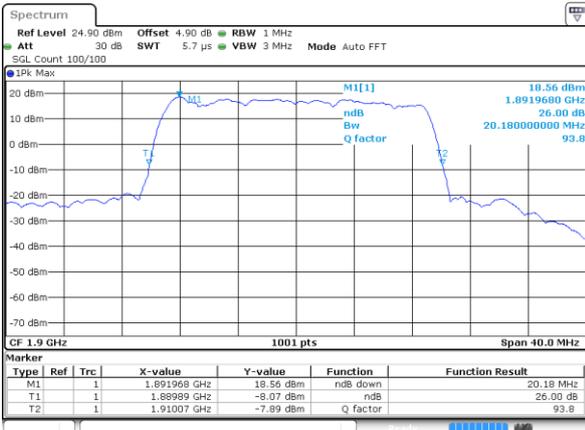
Date: 9 FEB 2018 10:26:28

Middle Channel / 20MHz / 16QAM



Date: 9 FEB 2018 09:46:41

Highest Channel / 20MHz / QPSK



Date: 9 FEB 2018 10:27:25

Highest Channel / 20MHz / 16QAM

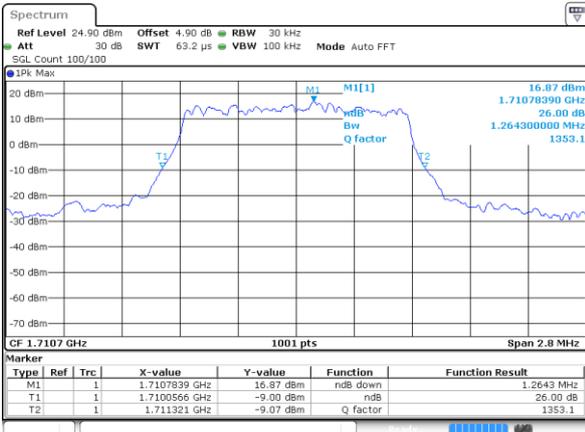


Date: 9 FEB 2018 10:27:07



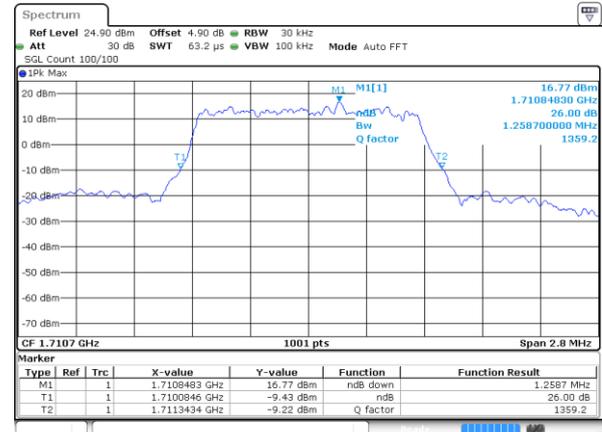
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



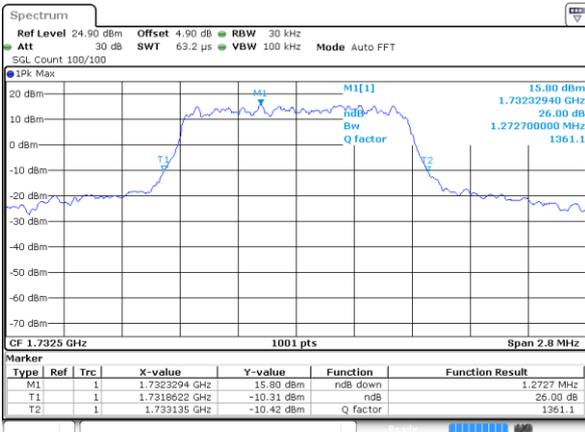
Date: 9 FEB 2018 13:13:20

Lowest Channel / 1.4MHz / 16QAM



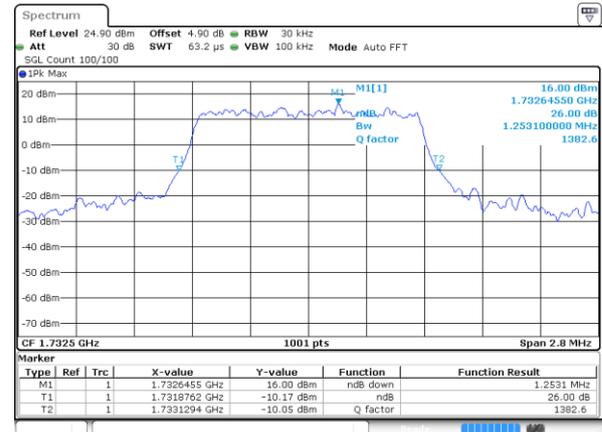
Date: 9 FEB 2018 13:13:31

Middle Channel / 1.4MHz / QPSK



Date: 9 FEB 2018 13:20:26

Middle Channel / 1.4MHz / 16QAM



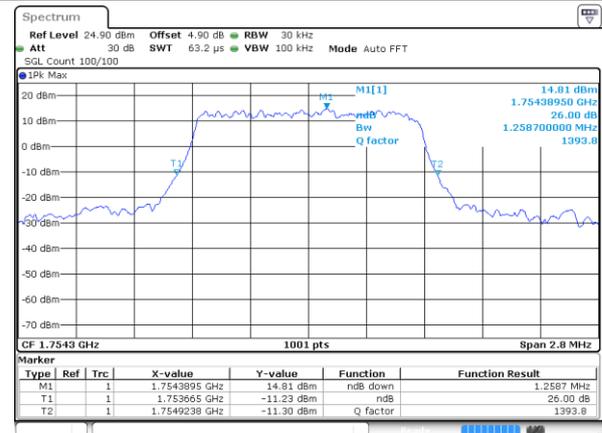
Date: 9 FEB 2018 13:20:36

Highest Channel / 1.4MHz / QPSK



Date: 9 FEB 2018 13:22:59

Highest Channel / 1.4MHz / 16QAM

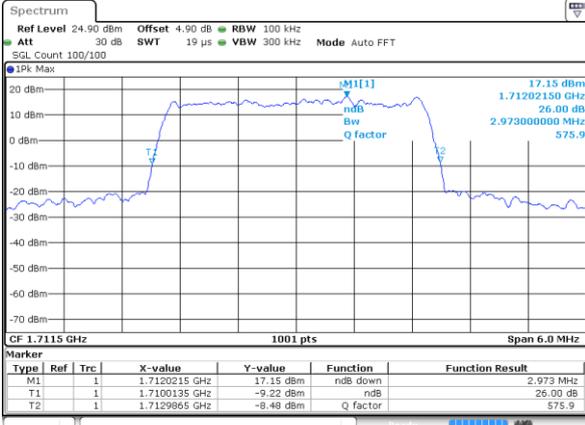


Date: 9 FEB 2018 13:23:09



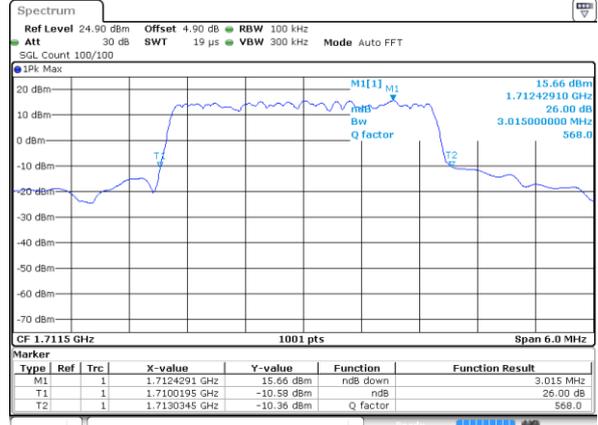
LTE Band 4

Lowest Channel / 3MHz / QPSK



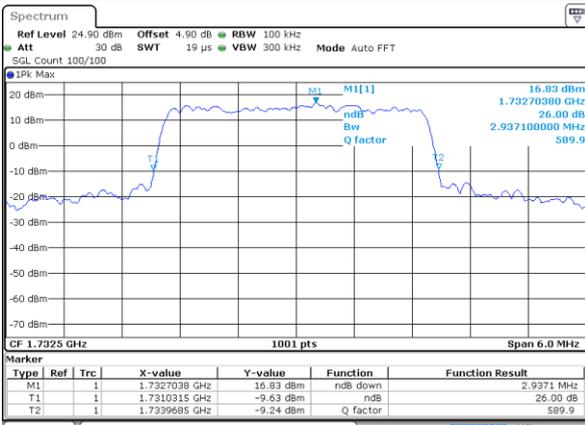
Date: 9 FEB 2018 13:30:05

Lowest Channel / 3MHz / 16QAM



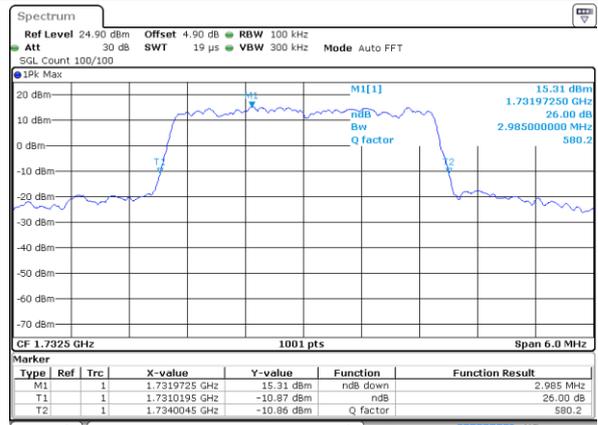
Date: 9 FEB 2018 13:30:15

Middle Channel / 3MHz / QPSK



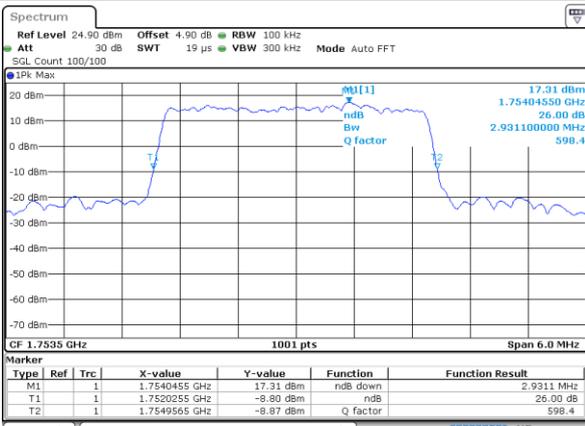
Date: 9 FEB 2018 13:37:10

Middle Channel / 3MHz / 16QAM



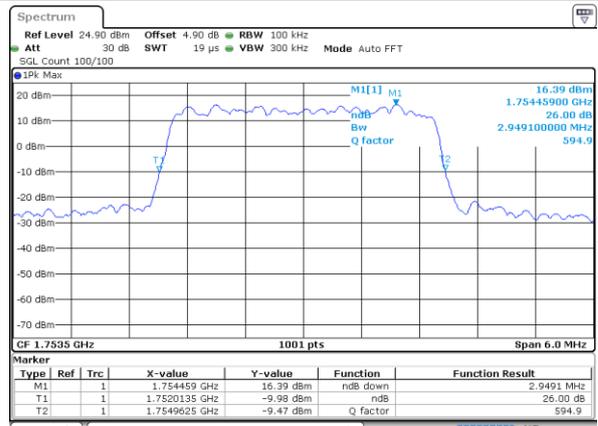
Date: 9 FEB 2018 13:37:21

Highest Channel / 3MHz / QPSK



Date: 9 FEB 2018 13:39:45

Highest Channel / 3MHz / 16QAM

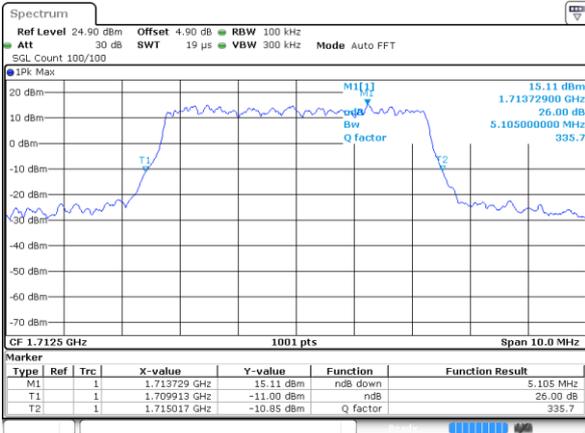


Date: 9 FEB 2018 13:39:56



LTE Band 4

Lowest Channel / 5MHz / QPSK



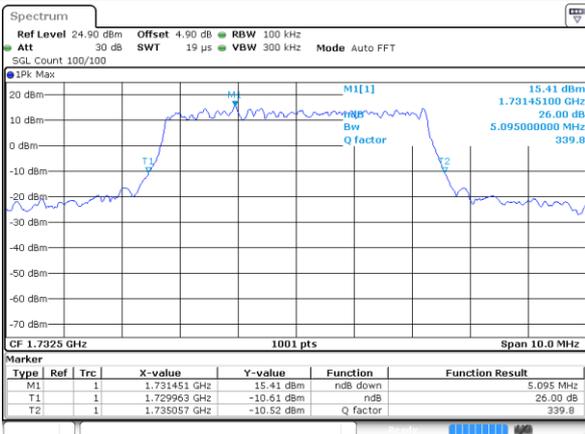
Date: 9 FEB 2018 13:46:54

Lowest Channel / 5MHz / 16QAM



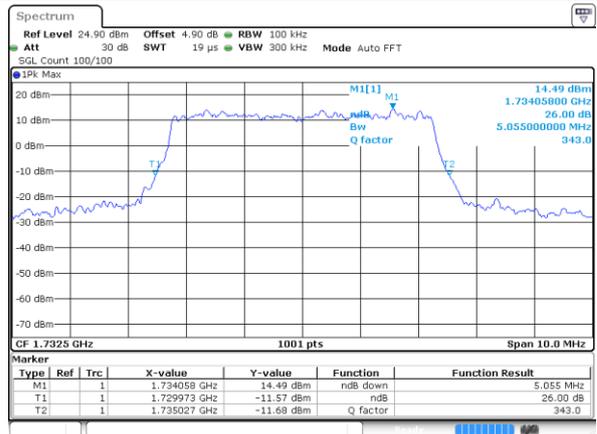
Date: 9 FEB 2018 13:47:05

Middle Channel / 5MHz / QPSK



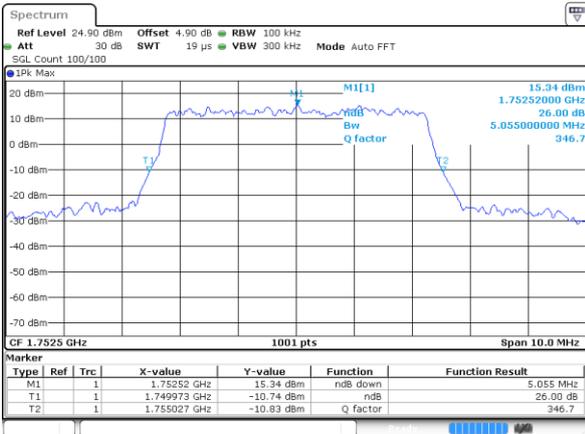
Date: 9 FEB 2018 13:54:00

Middle Channel / 5MHz / 16QAM



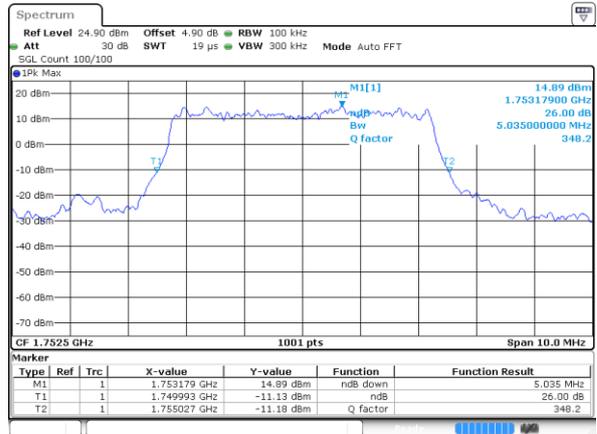
Date: 9 FEB 2018 13:54:11

Highest Channel / 5MHz / QPSK



Date: 9 FEB 2018 13:56:35

Highest Channel / 5MHz / 16QAM

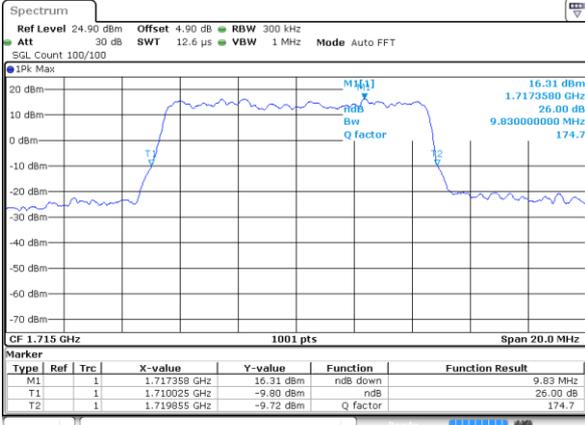


Date: 9 FEB 2018 13:56:46



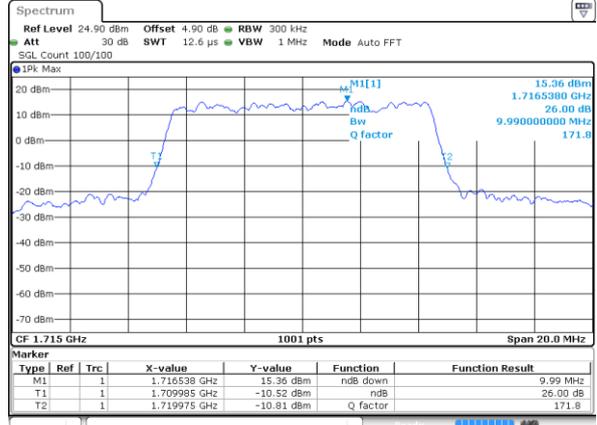
LTE Band 4

Lowest Channel / 10MHz / QPSK



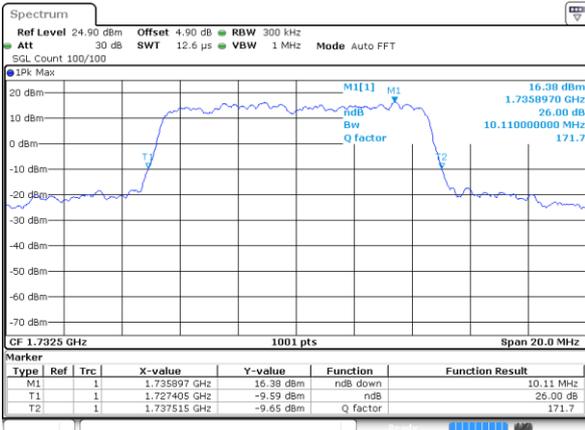
Date: 9 FEB 2018 14:03:42

Lowest Channel / 10MHz / 16QAM



Date: 9 FEB 2018 14:03:53

Middle Channel / 10MHz / QPSK



Date: 9 FEB 2018 14:10:49

Middle Channel / 10MHz / 16QAM



Date: 9 FEB 2018 14:10:59

Highest Channel / 10MHz / QPSK



Date: 9 FEB 2018 14:13:22

Highest Channel / 10MHz / 16QAM

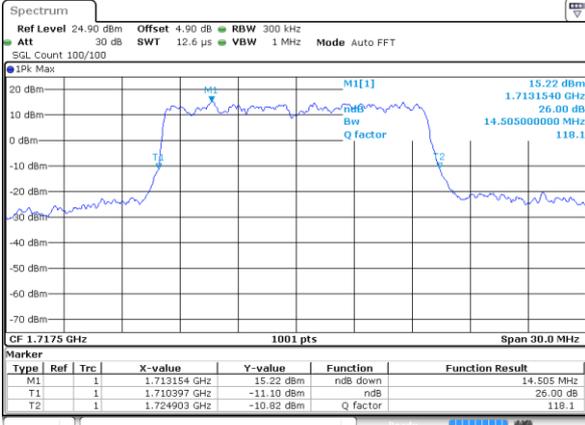


Date: 9 FEB 2018 14:13:33



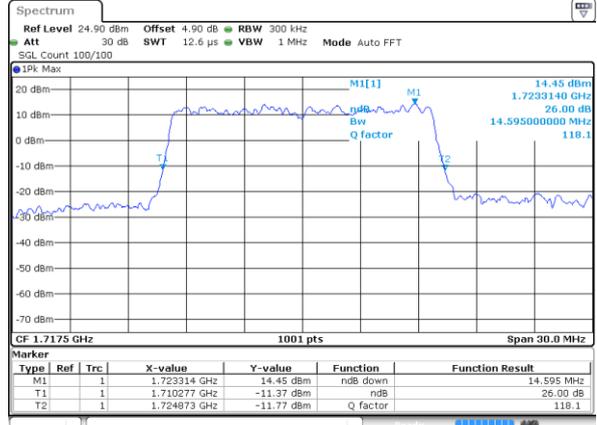
LTE Band 4

Lowest Channel / 15MHz / QPSK



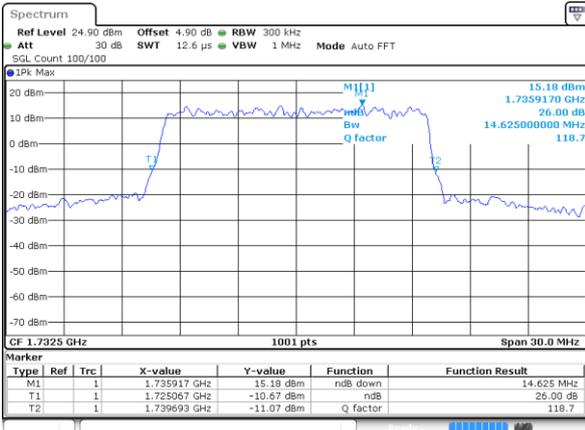
Date: 9 FEB 2018 14:20:29

Lowest Channel / 15MHz / 16QAM



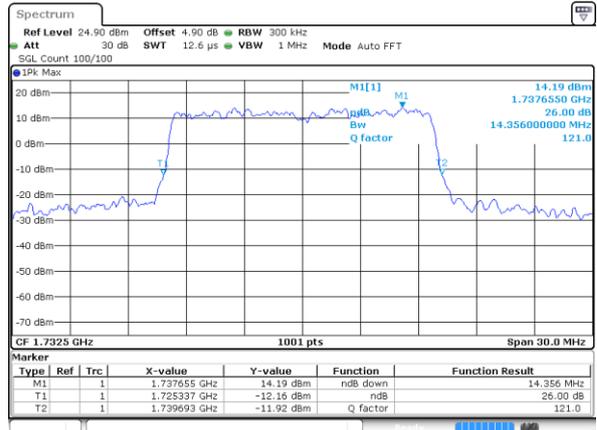
Date: 9 FEB 2018 14:20:40

Middle Channel / 15MHz / QPSK



Date: 9 FEB 2018 14:29:55

Middle Channel / 15MHz / 16QAM



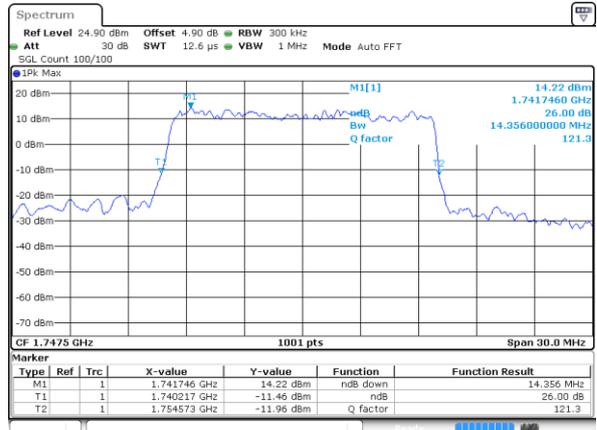
Date: 9 FEB 2018 14:30:06

Highest Channel / 15MHz / QPSK



Date: 9 FEB 2018 14:32:32

Highest Channel / 15MHz / 16QAM

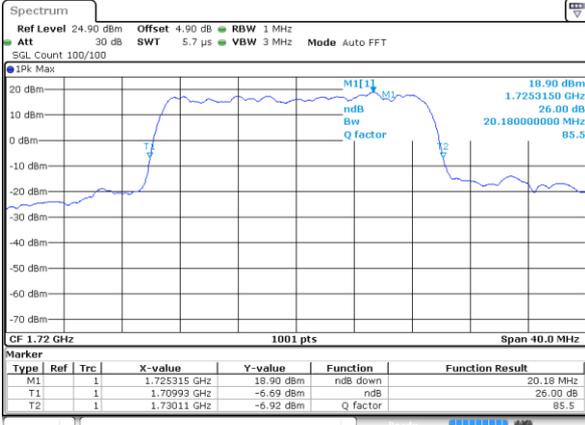


Date: 9 FEB 2018 14:32:43



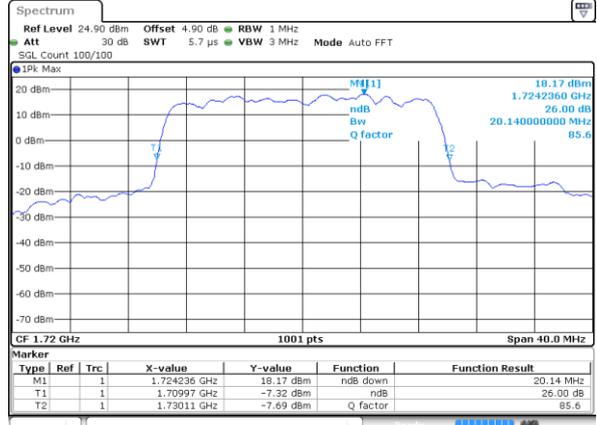
LTE Band 4

Lowest Channel / 20MHz / QPSK



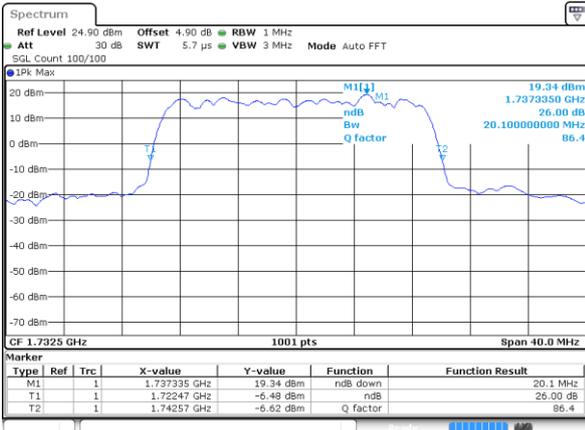
Date: 9 FEB 2018 14:39:44

Lowest Channel / 20MHz / 16QAM



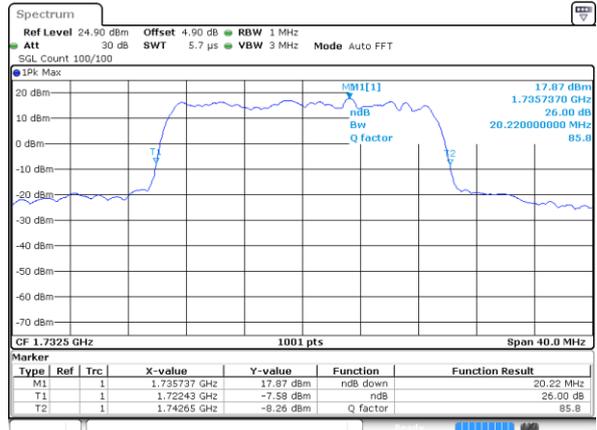
Date: 9 FEB 2018 14:39:54

Middle Channel / 20MHz / QPSK



Date: 9 FEB 2018 14:46:52

Middle Channel / 20MHz / 16QAM



Date: 9 FEB 2018 14:47:04

Highest Channel / 20MHz / QPSK



Date: 9 FEB 2018 14:49:31

Highest Channel / 20MHz / 16QAM

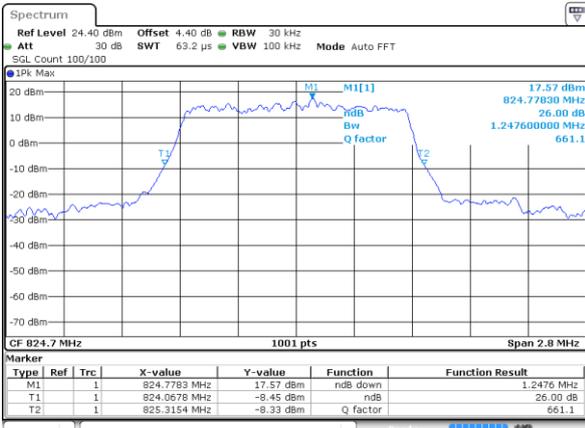


Date: 9 FEB 2018 14:49:42



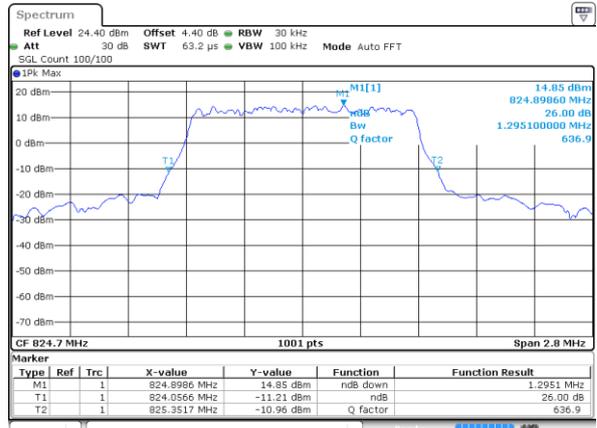
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



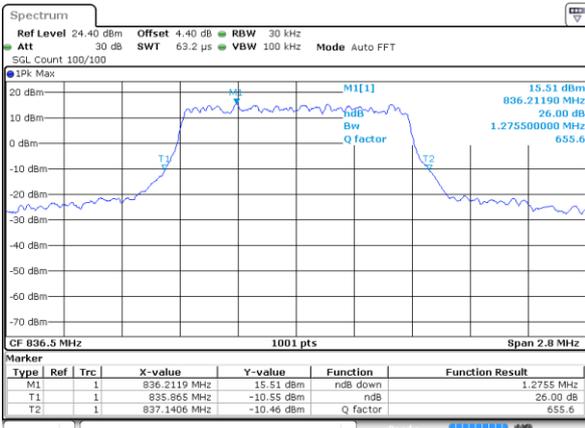
Date: 9 FEB 2018 15:31:48

Lowest Channel / 1.4MHz / 16QAM



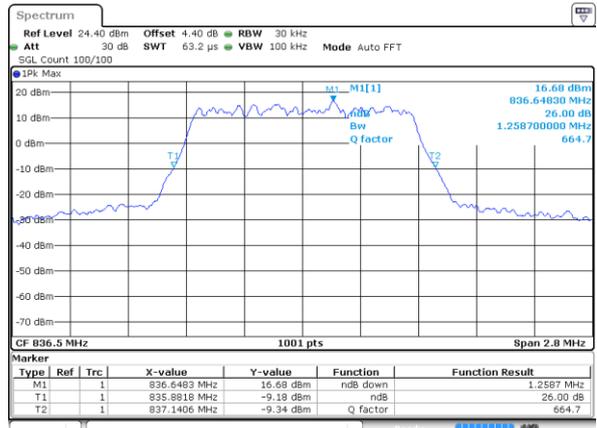
Date: 9 FEB 2018 15:31:37

Middle Channel / 1.4MHz / QPSK



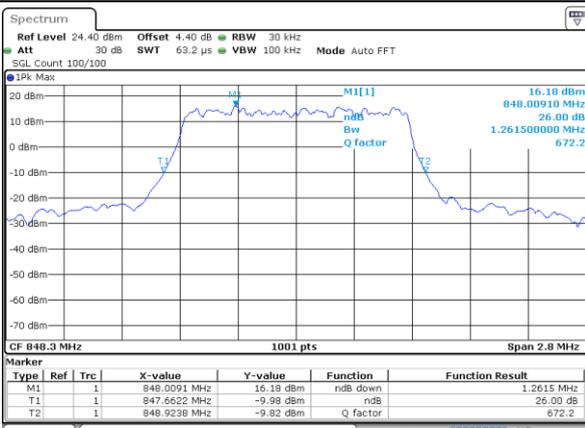
Date: 9 FEB 2018 15:40:44

Middle Channel / 1.4MHz / 16QAM



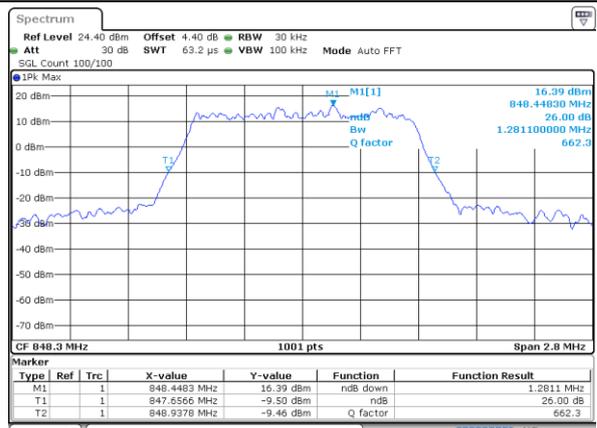
Date: 9 FEB 2018 15:40:55

Highest Channel / 1.4MHz / QPSK



Date: 9 FEB 2018 15:43:18

Highest Channel / 1.4MHz / 16QAM

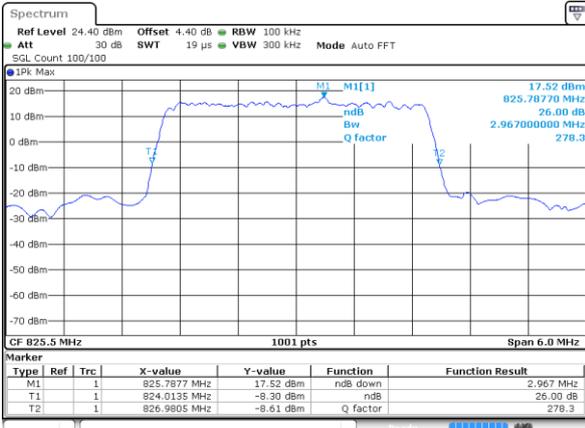


Date: 9 FEB 2018 15:43:28



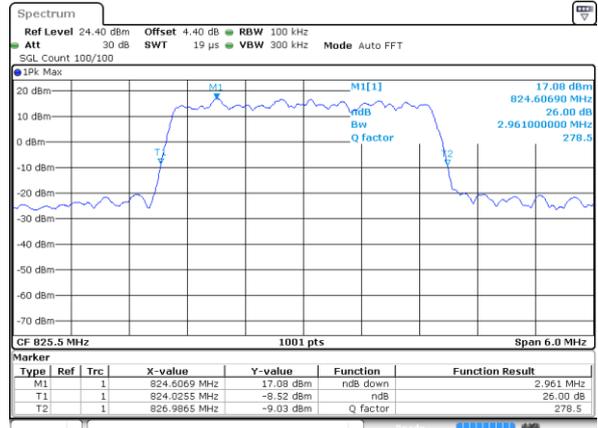
LTE Band 5

Lowest Channel / 3MHz / QPSK



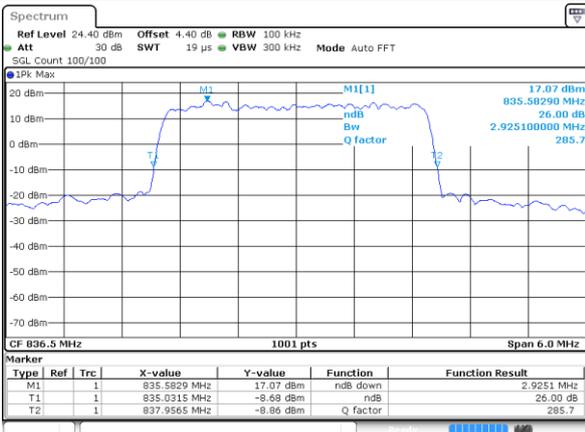
Date: 9 FEB 2018 15:51:17

Lowest Channel / 3MHz / 16QAM



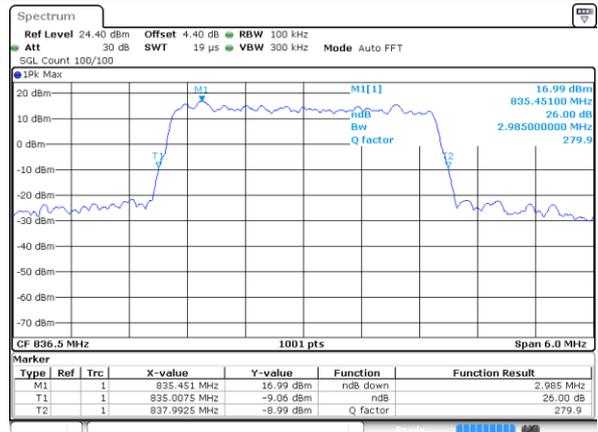
Date: 9 FEB 2018 15:51:28

Middle Channel / 3MHz / QPSK



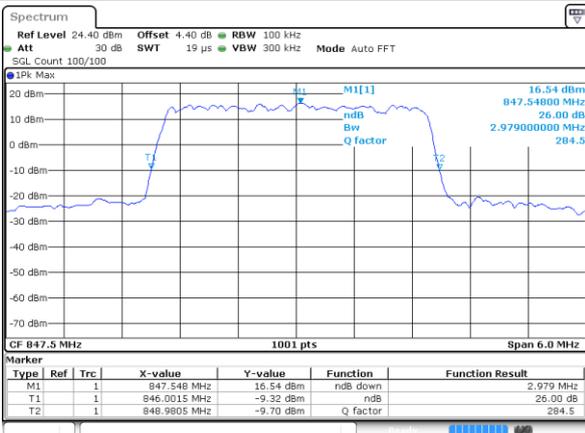
Date: 9 FEB 2018 16:00:24

Middle Channel / 3MHz / 16QAM



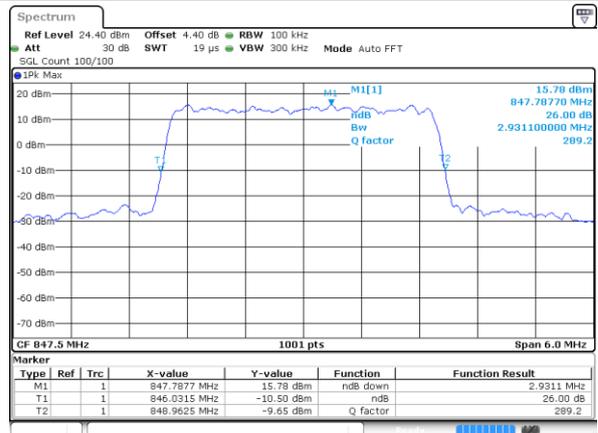
Date: 9 FEB 2018 16:00:34

Highest Channel / 3MHz / QPSK



Date: 9 FEB 2018 16:02:58

Highest Channel / 3MHz / 16QAM

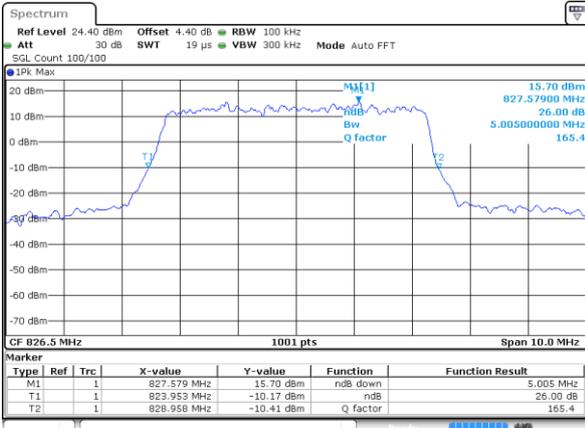


Date: 9 FEB 2018 16:03:08



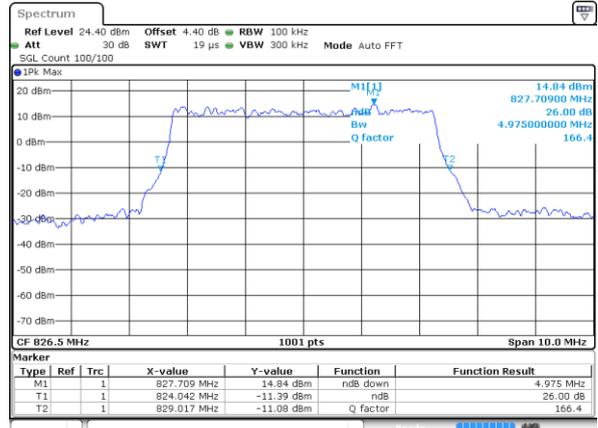
LTE Band 5

Lowest Channel / 5MHz / QPSK



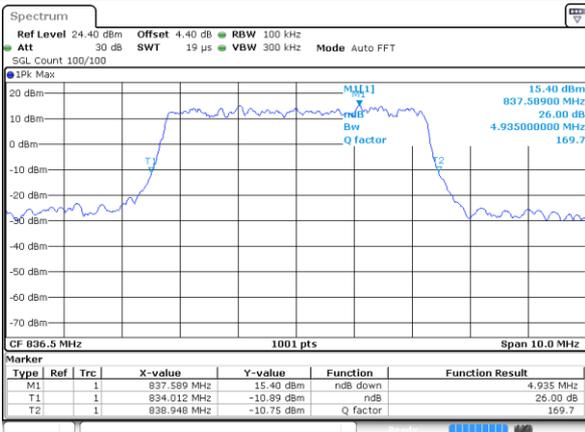
Date: 9 FEB 2018 16:12:04

Lowest Channel / 5MHz / 16QAM



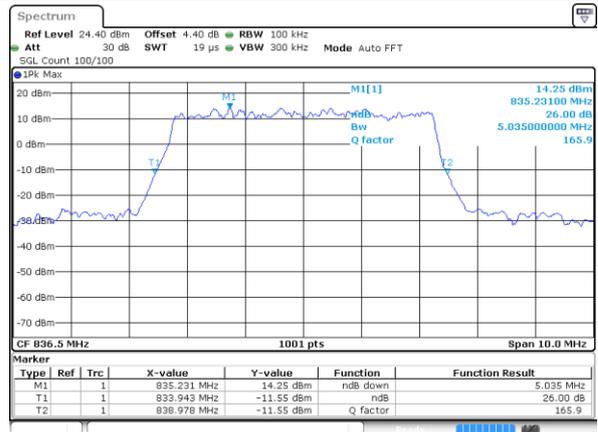
Date: 9 FEB 2018 16:12:15

Middle Channel / 5MHz / QPSK



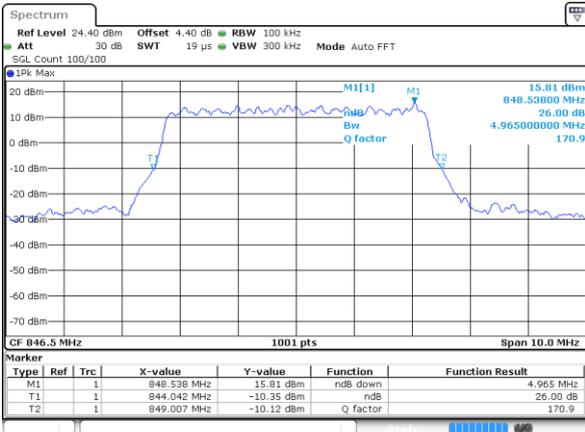
Date: 9 FEB 2018 16:21:11

Middle Channel / 5MHz / 16QAM



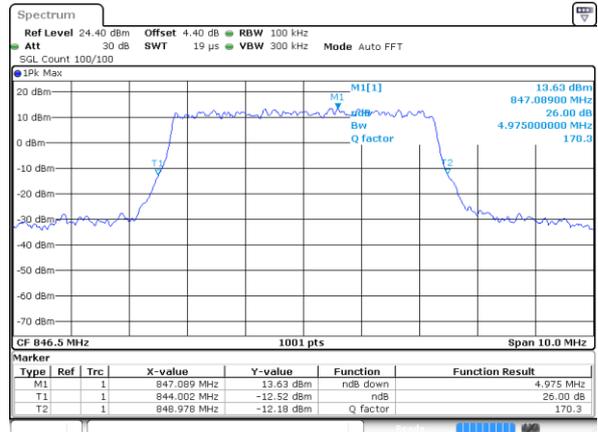
Date: 9 FEB 2018 16:21:21

Highest Channel / 5MHz / QPSK



Date: 9 FEB 2018 16:23:45

Highest Channel / 5MHz / 16QAM

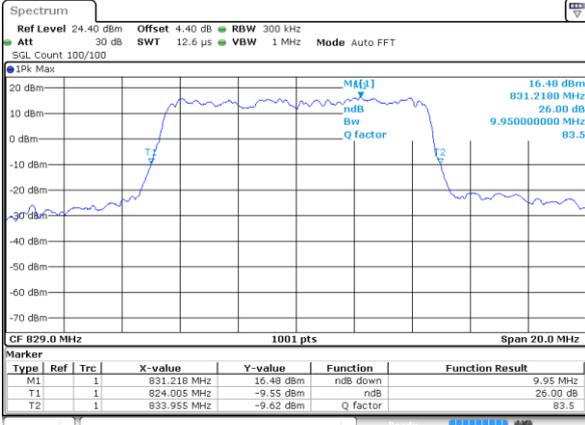


Date: 9 FEB 2018 16:23:55



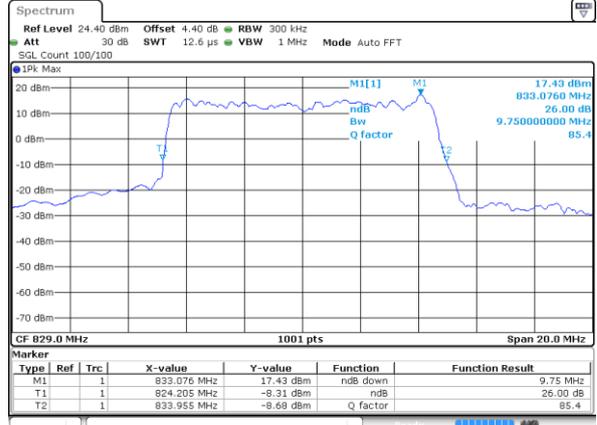
LTE Band 5

Lowest Channel / 10MHz / QPSK



Date: 9 FEB 2018 16:32:51

Lowest Channel / 10MHz / 16QAM



Date: 9 FEB 2018 16:33:02

Middle Channel / 10MHz / QPSK



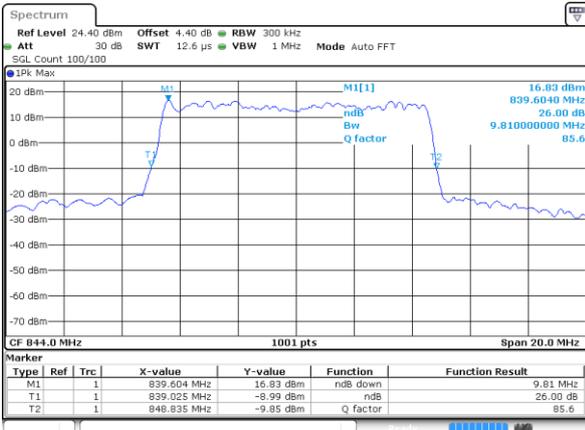
Date: 9 FEB 2018 16:41:58

Middle Channel / 10MHz / 16QAM



Date: 9 FEB 2018 16:42:09

Highest Channel / 10MHz / QPSK



Date: 9 FEB 2018 16:44:32

Highest Channel / 10MHz / 16QAM

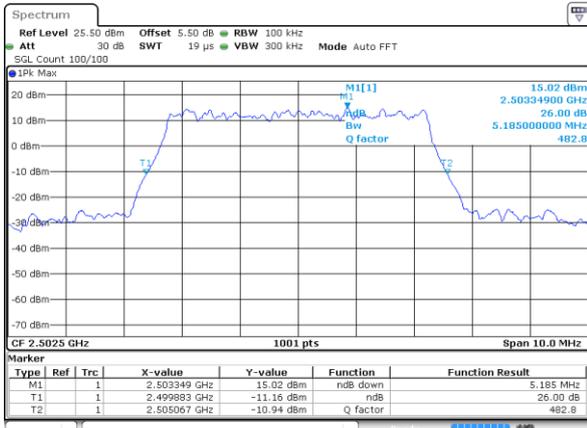


Date: 9 FEB 2018 16:44:42



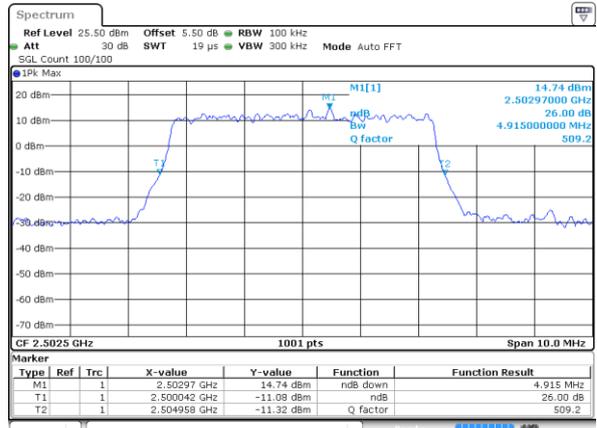
LTE Band 7

Lowest Channel / 5MHz / QPSK



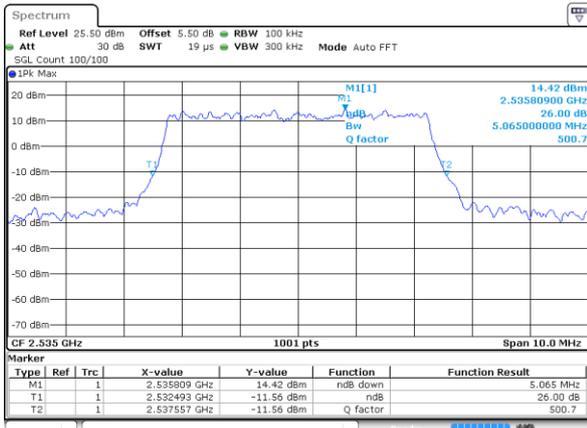
Date: 8 FEB 2018 20:57:04

Lowest Channel / 5MHz / 16QAM



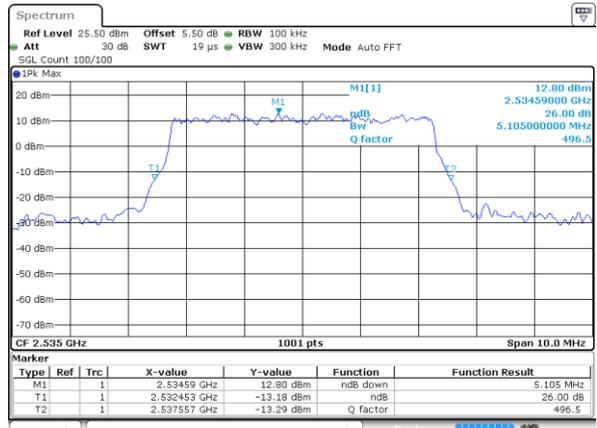
Date: 8 FEB 2018 20:57:25

Middle Channel / 5MHz / QPSK



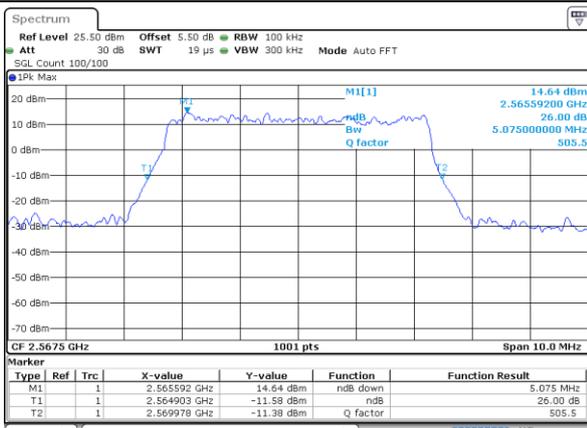
Date: 8 FEB 2018 21:06:12

Middle Channel / 5MHz / 16QAM



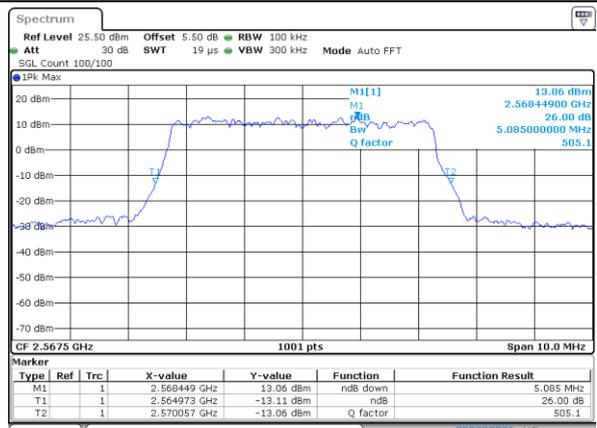
Date: 8 FEB 2018 21:05:52

Highest Channel / 5MHz / QPSK



Date: 8 FEB 2018 21:06:32

Highest Channel / 5MHz / 16QAM



Date: 8 FEB 2018 21:06:52



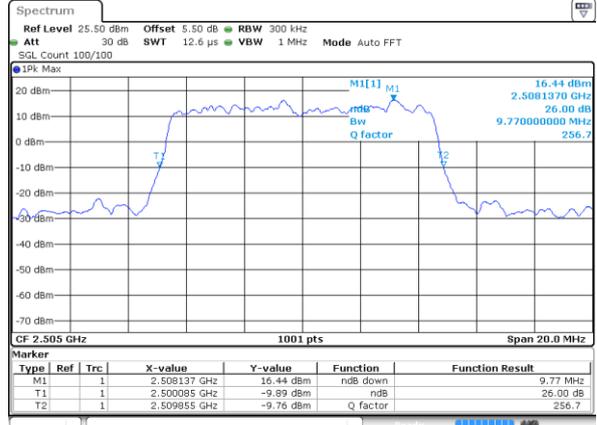
LTE Band 7

Lowest Channel / 10MHz / QPSK



Date: 8 FEB 2018 21:13:32

Lowest Channel / 10MHz / 16QAM



Date: 8 FEB 2018 21:13:52

Middle Channel / 10MHz / QPSK



Date: 8 FEB 2018 21:22:40

Middle Channel / 10MHz / 16QAM



Date: 8 FEB 2018 21:22:20

Highest Channel / 10MHz / QPSK



Date: 8 FEB 2018 21:23:00

Highest Channel / 10MHz / 16QAM

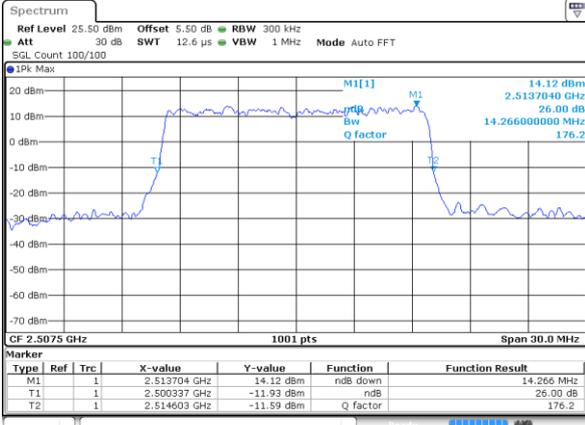


Date: 8 FEB 2018 21:23:20



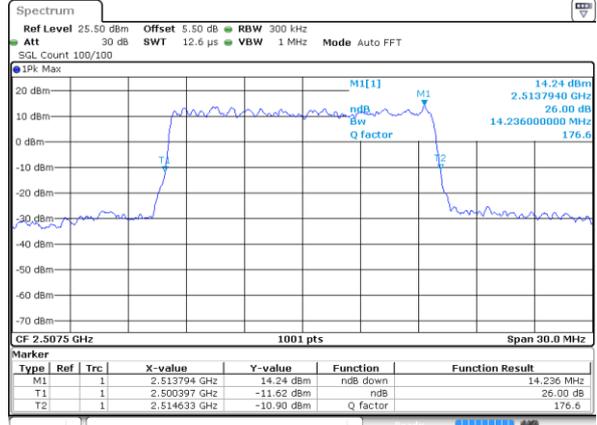
LTE Band 7

Lowest Channel / 15MHz / QPSK



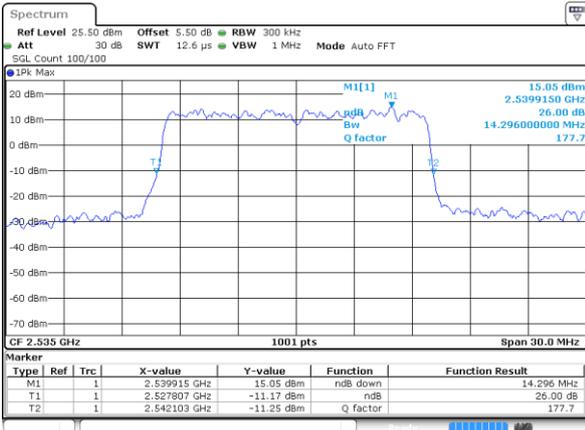
Date: 8 FEB 2018 21:30:00

Lowest Channel / 15MHz / 16QAM



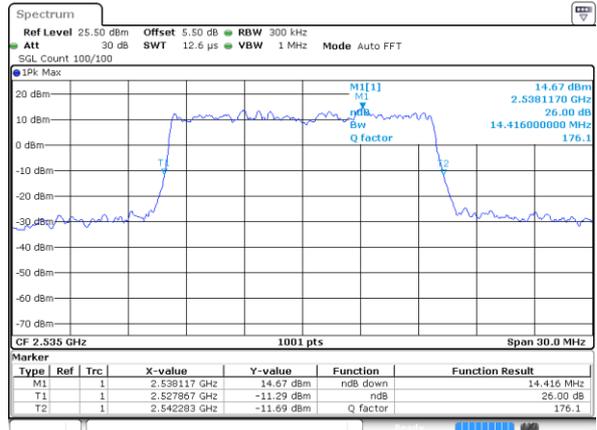
Date: 8 FEB 2018 21:30:20

Middle Channel / 15MHz / QPSK



Date: 8 FEB 2018 21:39:07

Middle Channel / 15MHz / 16QAM



Date: 8 FEB 2018 21:38:47

Highest Channel / 15MHz / QPSK



Date: 8 FEB 2018 21:39:27

Highest Channel / 15MHz / 16QAM

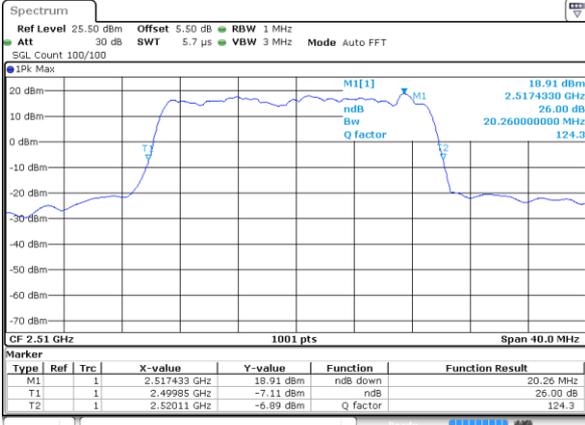


Date: 8 FEB 2018 21:39:47



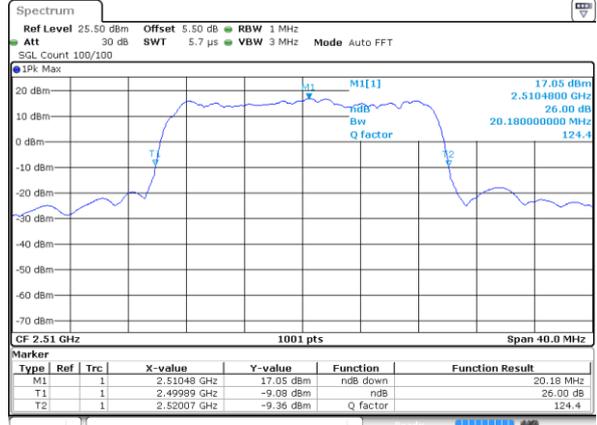
LTE Band 7

Lowest Channel / 20MHz / QPSK



Date: 8 FEB 2018 21:46:27

Lowest Channel / 20MHz / 16QAM



Date: 8 FEB 2018 21:46:47

Middle Channel / 20MHz / QPSK



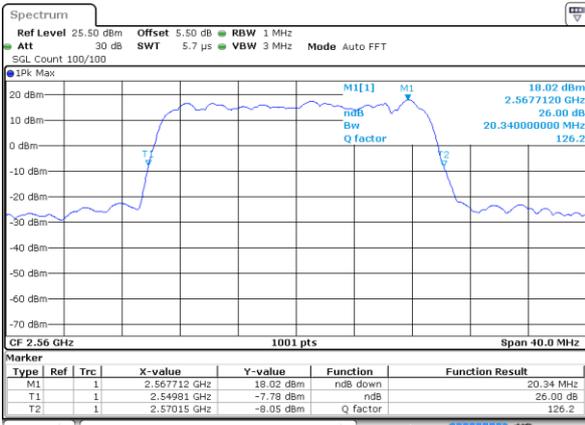
Date: 8 FEB 2018 21:55:34

Middle Channel / 20MHz / 16QAM



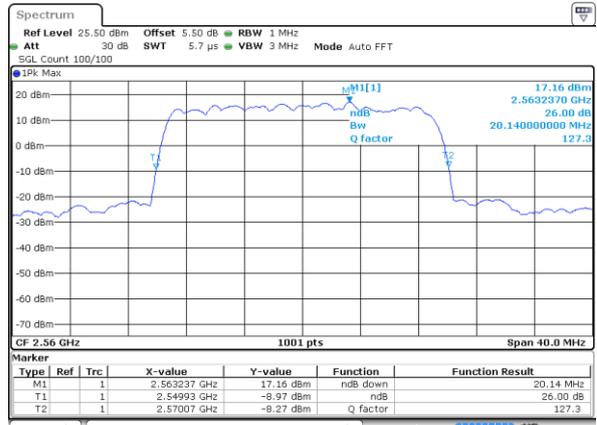
Date: 8 FEB 2018 21:55:14

Highest Channel / 20MHz / QPSK



Date: 8 FEB 2018 21:55:54

Highest Channel / 20MHz / 16QAM

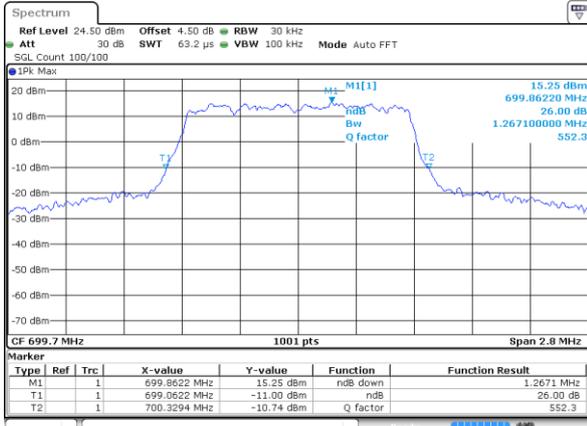


Date: 8 FEB 2018 21:56:14



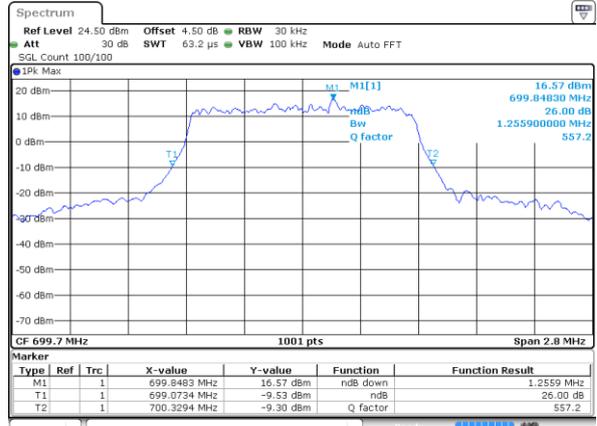
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



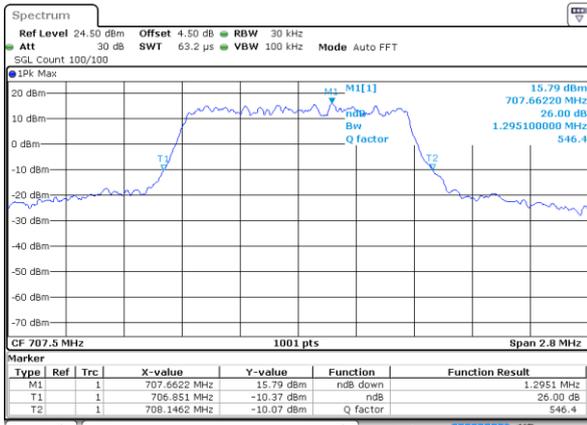
Date: 30 JAN 2018 22:23:13

Lowest Channel / 1.4MHz / 16QAM



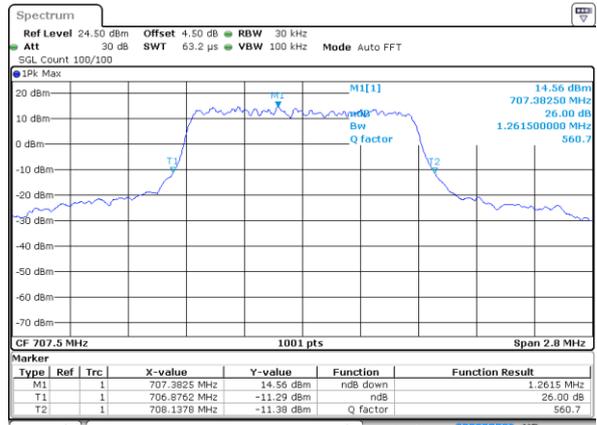
Date: 30 JAN 2018 22:23:02

Middle Channel / 1.4MHz / QPSK



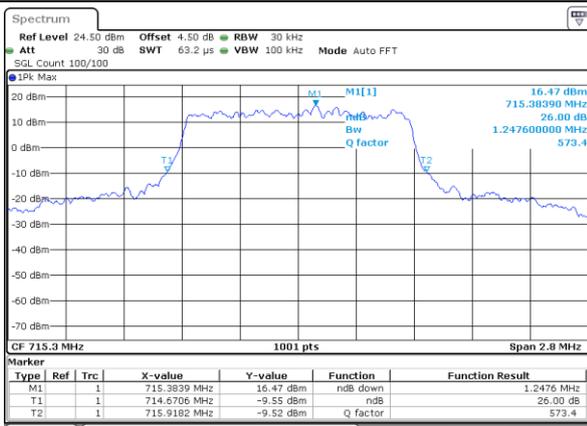
Date: 30 JAN 2018 22:22:42

Middle Channel / 1.4MHz / 16QAM



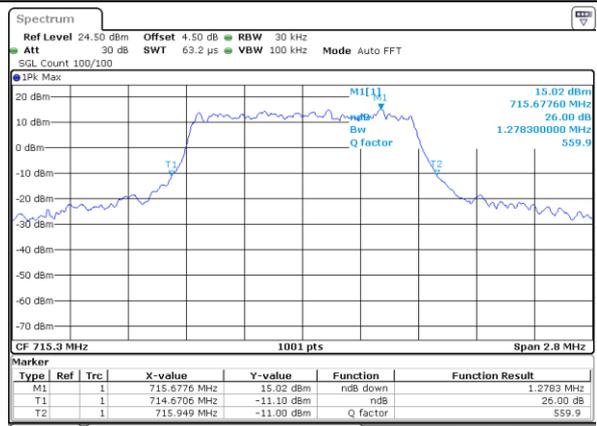
Date: 30 JAN 2018 22:22:52

Highest Channel / 1.4MHz / QPSK



Date: 30 JAN 2018 22:22:32

Highest Channel / 1.4MHz / 16QAM

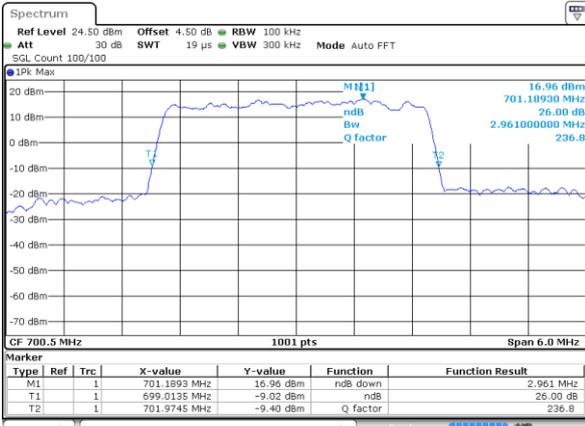


Date: 30 JAN 2018 22:22:22



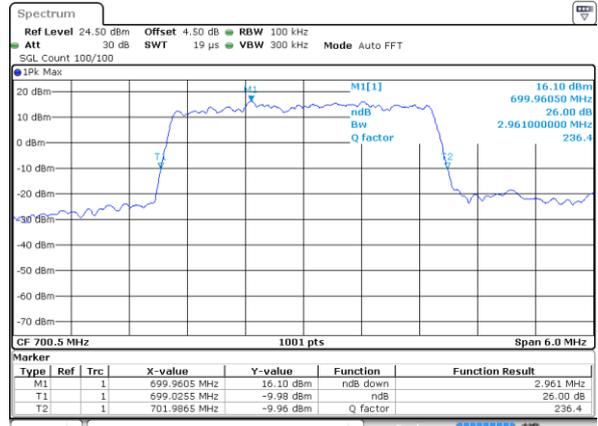
LTE Band 12

Lowest Channel / 3MHz / QPSK



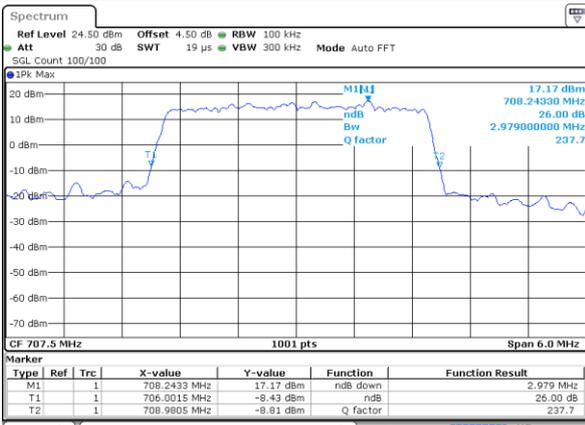
Date: 30 JAN 2018 22:39:42

Lowest Channel / 3MHz / 16QAM



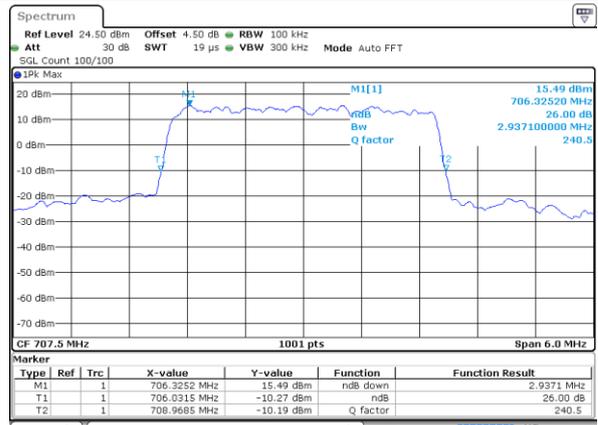
Date: 30 JAN 2018 22:39:32

Middle Channel / 3MHz / QPSK



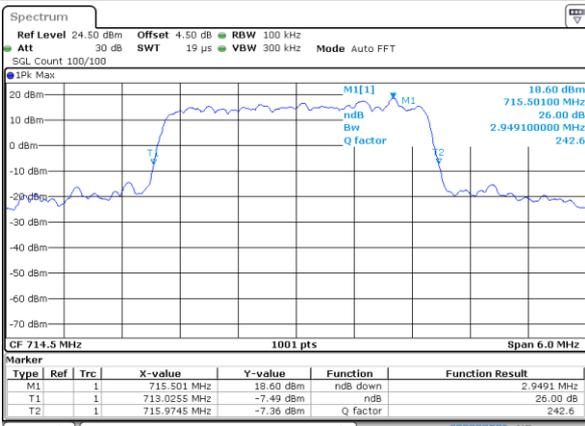
Date: 30 JAN 2018 22:39:12

Middle Channel / 3MHz / 16QAM



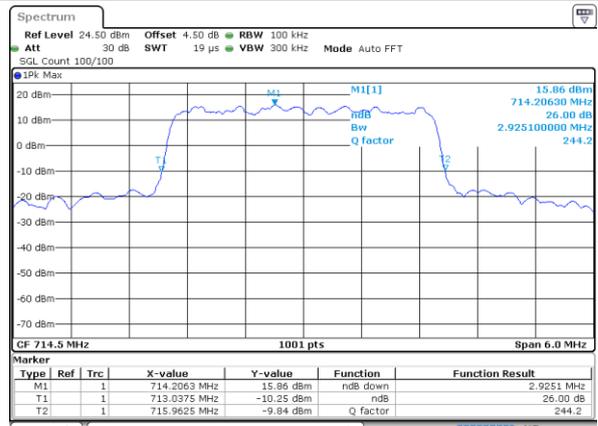
Date: 30 JAN 2018 22:39:22

Highest Channel / 3MHz / QPSK



Date: 30 JAN 2018 22:39:02

Highest Channel / 3MHz / 16QAM

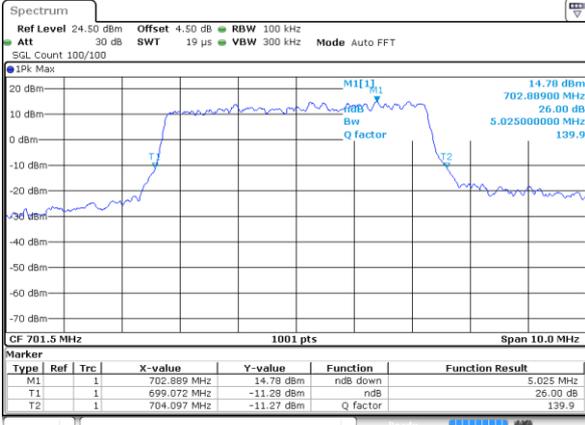


Date: 30 JAN 2018 22:38:52



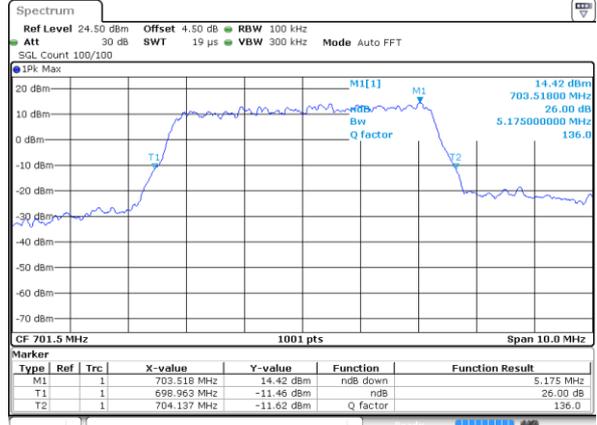
LTE Band 12

Lowest Channel / 5MHz / QPSK



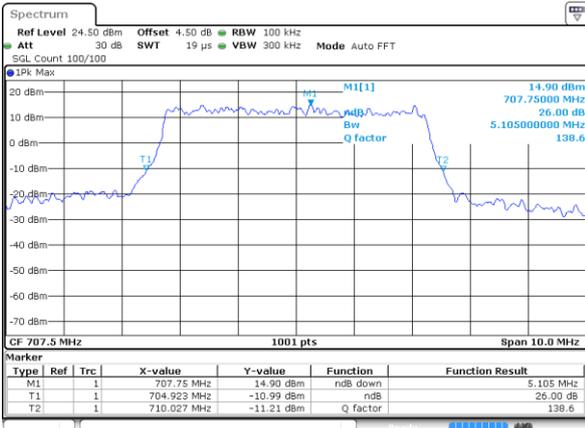
Date: 30 JAN 2018 22:56:13

Lowest Channel / 5MHz / 16QAM



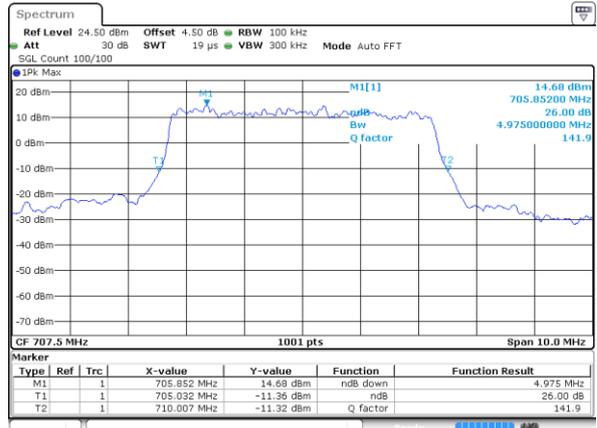
Date: 30 JAN 2018 22:56:03

Middle Channel / 5MHz / QPSK



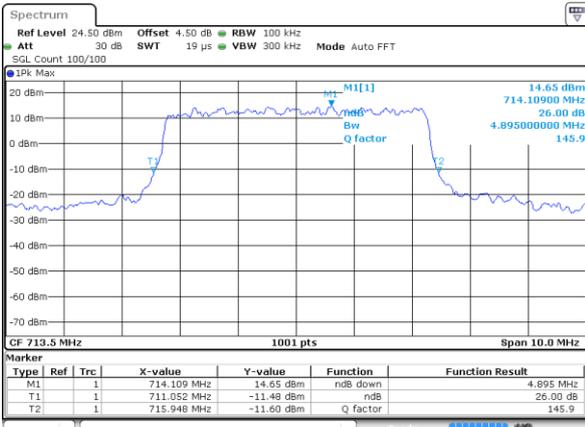
Date: 30 JAN 2018 22:55:42

Middle Channel / 5MHz / 16QAM



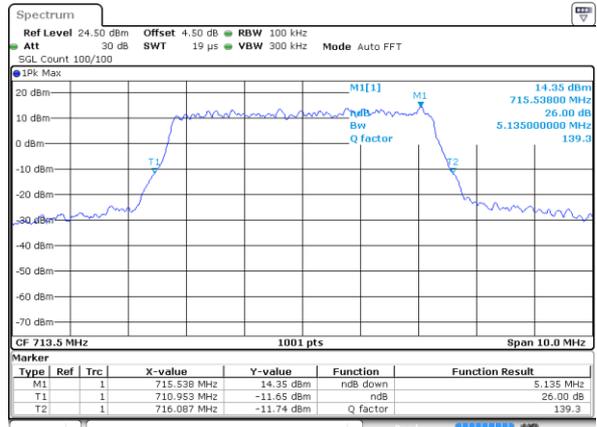
Date: 30 JAN 2018 22:55:53

Highest Channel / 5MHz / QPSK



Date: 30 JAN 2018 22:55:32

Highest Channel / 5MHz / 16QAM

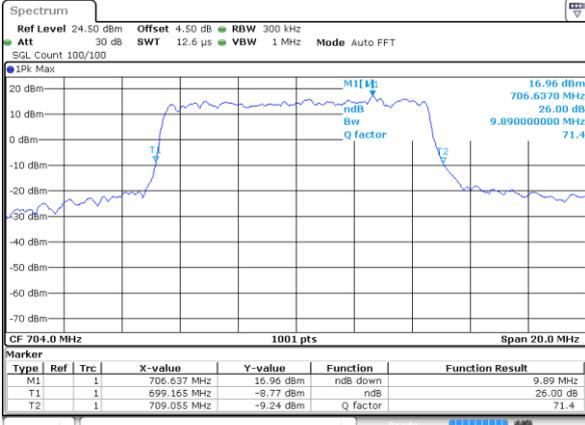


Date: 30 JAN 2018 22:55:22



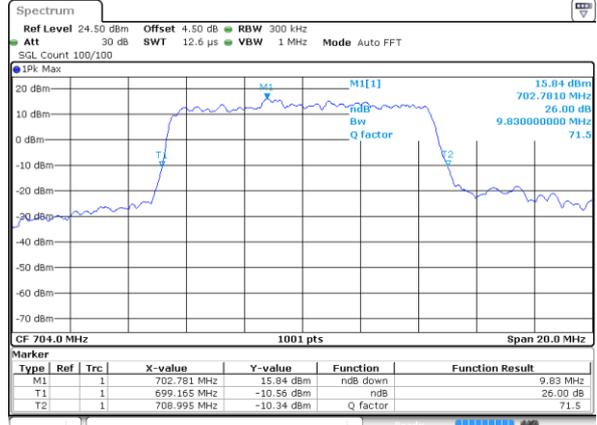
LTE Band 12

Lowest Channel / 10MHz / QPSK



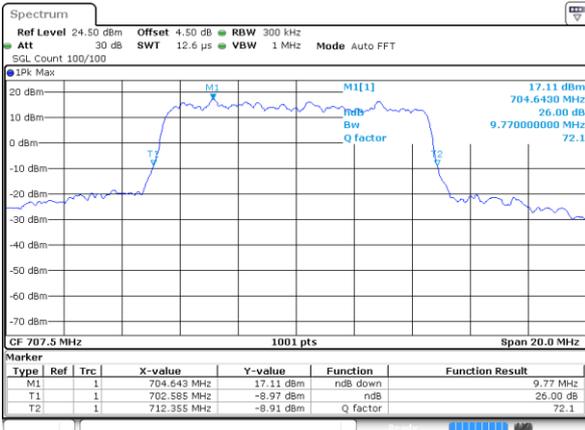
Date: 30 JAN 2018 23:16:11

Lowest Channel / 10MHz / 16QAM



Date: 30 JAN 2018 23:16:32

Middle Channel / 10MHz / QPSK



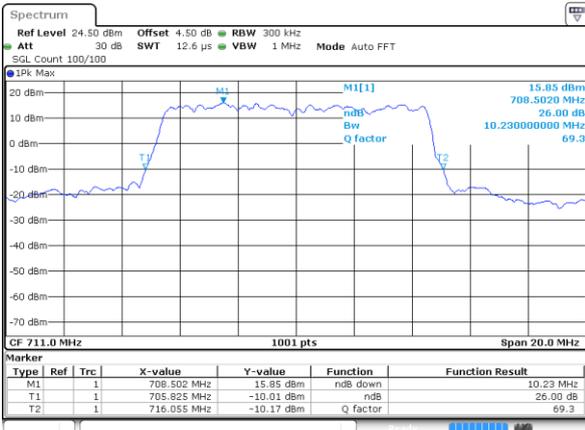
Date: 30 JAN 2018 23:17:25

Middle Channel / 10MHz / 16QAM



Date: 30 JAN 2018 23:16:51

Highest Channel / 10MHz / QPSK



Date: 30 JAN 2018 23:17:47

Highest Channel / 10MHz / 16QAM

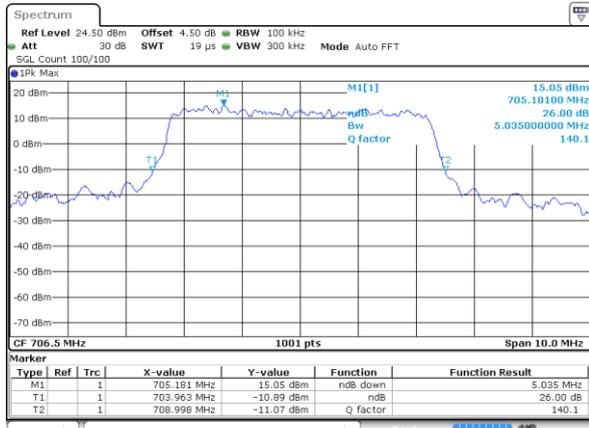


Date: 30 JAN 2018 23:18:11



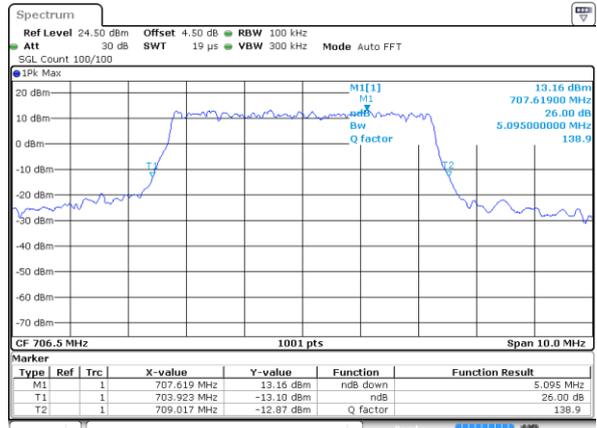
LTE Band 17

Lowest Channel / 5MHz / QPSK



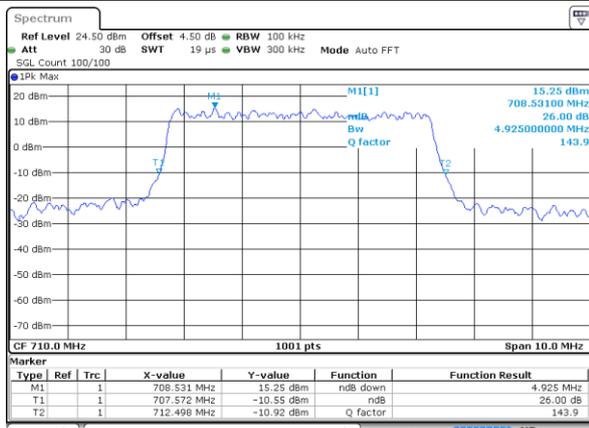
Date: 30 JAN 2018 21:32:46

Lowest Channel / 5MHz / 16QAM



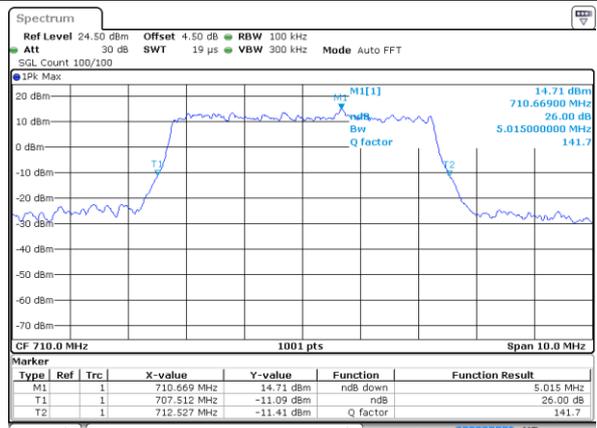
Date: 30 JAN 2018 21:32:56

Middle Channel / 5MHz / QPSK



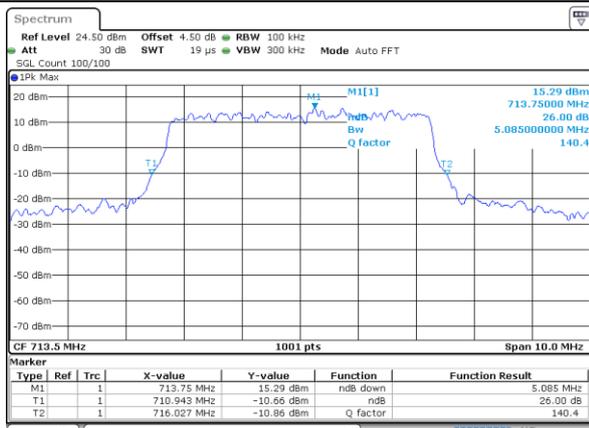
Date: 30 JAN 2018 21:39:47

Middle Channel / 5MHz / 16QAM



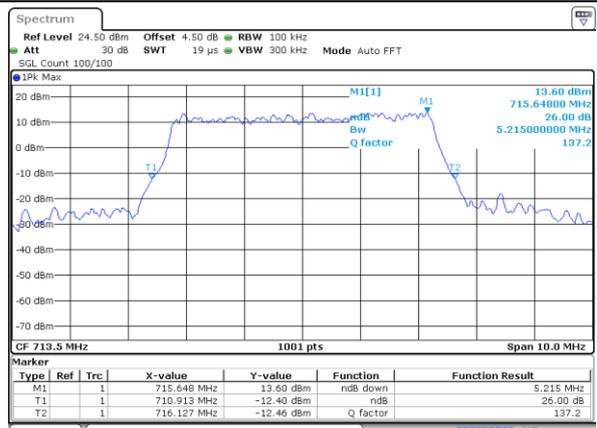
Date: 30 JAN 2018 21:39:57

Highest Channel / 5MHz / QPSK



Date: 30 JAN 2018 21:42:17

Highest Channel / 5MHz / 16QAM

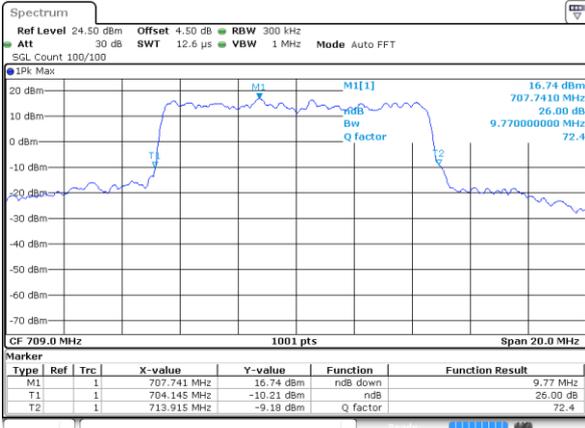


Date: 30 JAN 2018 21:42:27



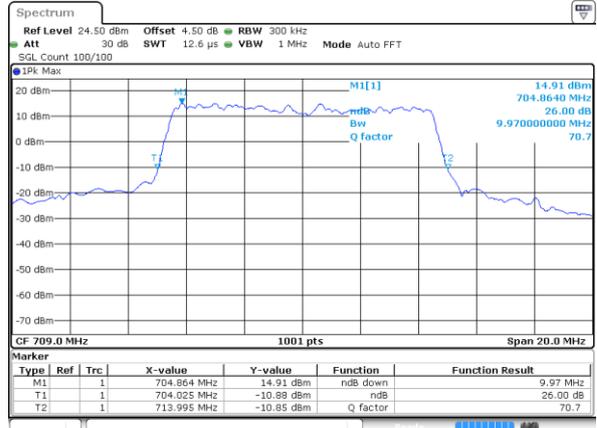
LTE Band 17

Lowest Channel / 10MHz / QPSK



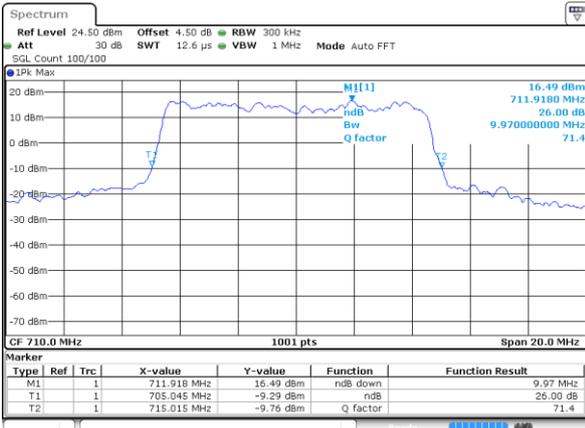
Date: 30 JAN 2018 21:49:17

Lowest Channel / 10MHz / 16QAM



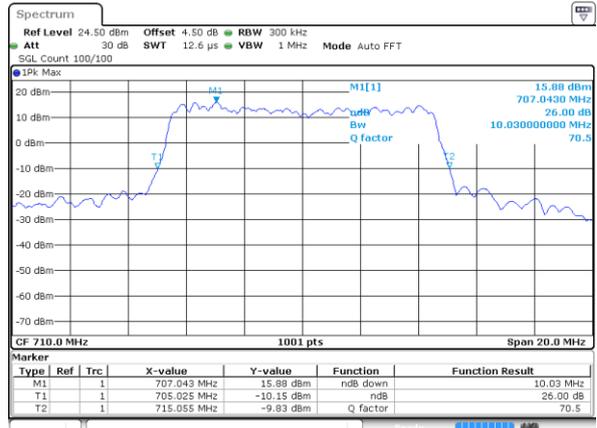
Date: 30 JAN 2018 21:49:28

Middle Channel / 10MHz / QPSK



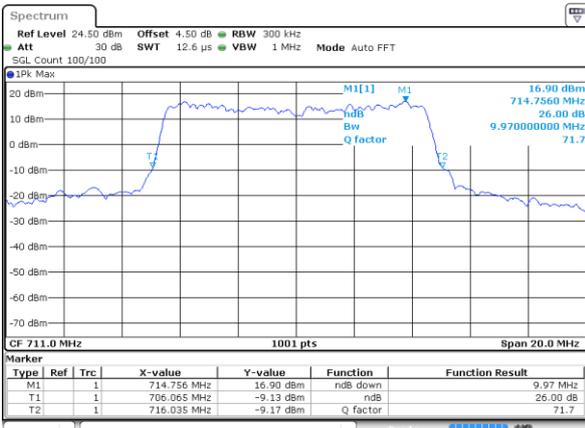
Date: 30 JAN 2018 21:56:18

Middle Channel / 10MHz / 16QAM



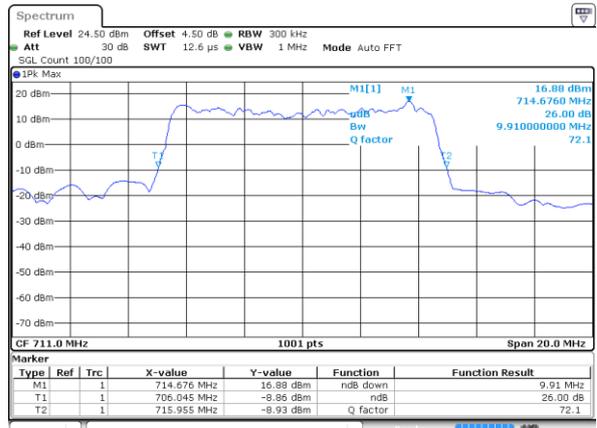
Date: 30 JAN 2018 21:56:28

Highest Channel / 10MHz / QPSK



Date: 30 JAN 2018 21:58:48

Highest Channel / 10MHz / 16QAM



Date: 30 JAN 2018 21:58:58



**Occupied Bandwidth**

| Mode       | LTE Band 2 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
|            | 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  | 2.70 | 2.70  | 4.51 | 4.52  | 9.05  | 9.07  | 13.43 | 13.46 | 18.38 | 18.30 |
| Middle CH  | 1.09                     | 1.08  | 2.70 | 2.70  | 4.51 | 4.51  | 9.09  | 9.09  | 13.46 | 13.52 | 18.46 | 18.42 |
| Highest CH | 1.09                     | 1.09  | 2.70 | 2.71  | 4.50 | 4.50  | 9.05  | 9.03  | 13.49 | 13.43 | 18.50 | 18.30 |

| Mode       | LTE Band 4 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
|            | 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  | 2.71 | 2.71  | 4.50 | 4.51  | 9.09  | 8.99  | 13.58 | 13.46 | 18.54 | 18.42 |
| Middle CH  | 1.09                     | 1.08  | 2.71 | 2.73  | 4.48 | 4.48  | 9.07  | 9.05  | 13.40 | 13.49 | 18.30 | 18.38 |
| Highest CH | 1.09                     | 1.10  | 2.71 | 2.69  | 4.51 | 4.50  | 9.05  | 9.05  | 13.49 | 13.49 | 18.30 | 18.38 |

| Mode       | LTE Band 5 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
|            | 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  | 2.71 | 2.71  | 4.50 | 4.51  | 9.05  | 9.03  | -     | -     | -     | -     |
| Middle CH  | 1.09                     | 1.09  | 2.72 | 2.70  | 4.50 | 4.51  | 9.11  | 9.09  | -     | -     | -     | -     |
| Highest CH | 1.08                     | 1.10  | 2.73 | 2.72  | 4.49 | 4.49  | 9.07  | 8.99  | -     | -     | -     | -     |

| Mode       | LTE Band 7 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
|            | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                        | -     | -    | -     | 4.51 | 4.51  | 8.99  | 9.01  | 13.46 | 13.52 | 18.26 | 18.34 |
| Middle CH  | -                        | -     | -    | -     | 4.53 | 4.48  | 9.07  | 9.01  | 13.43 | 13.49 | 18.54 | 18.42 |
| Highest CH | -                        | -     | -    | -     | 4.5  | 4.5   | 9.05  | 9.01  | 13.43 | 13.43 | 18.34 | 18.42 |



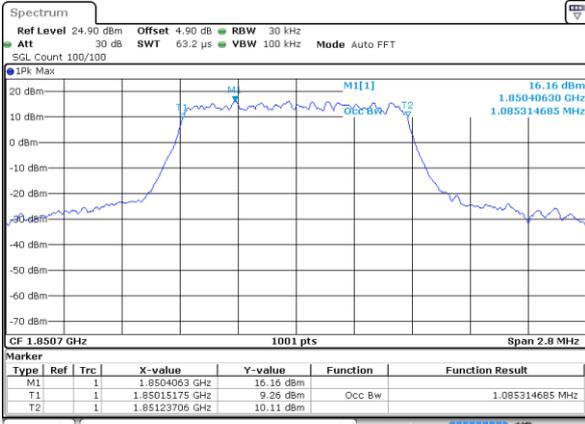
| Mode       | LTE Band 12 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.09                      | 1.09  | 2.7  | 2.7   | 4.48 | 4.47  | 9.07  | 8.97  | -     | -     | -     | -     |
| Middle CH  | 1.09                      | 1.1   | 2.69 | 2.72  | 4.48 | 4.51  | 9.03  | 9.05  | -     | -     | -     | -     |
| Highest CH | 1.09                      | 1.09  | 2.72 | 2.72  | 4.48 | 4.49  | 9.09  | 9.09  | -     | -     | -     | -     |

| 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  | -                         | -     | -    | -     | 4.52 | 4.48  | 9.01  | 9.01  | -     | -     | -     | -     |
| Middle CH  | -                         | -     | -    | -     | 4.52 | 4.5   | 9.13  | 9.01  | -     | -     | -     | -     |
| Highest CH | -                         | -     | -    | -     | 4.51 | 4.48  | 9.13  | 9.03  | -     | -     | -     | -     |



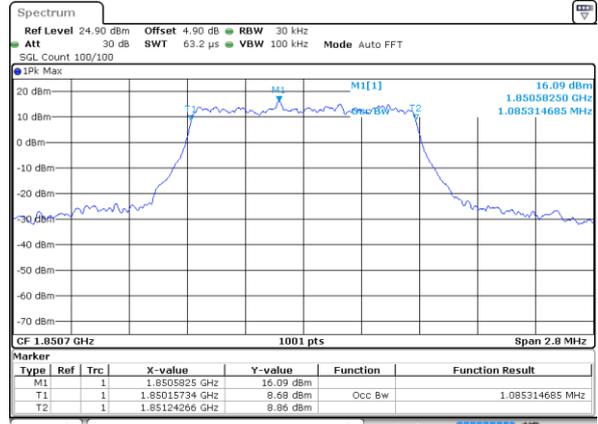
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



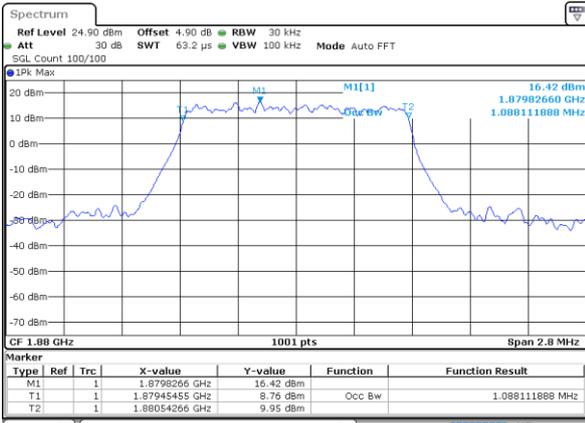
Date: 9 FEB 2018 08:14:58

Lowest Channel / 1.4MHz / 16QAM



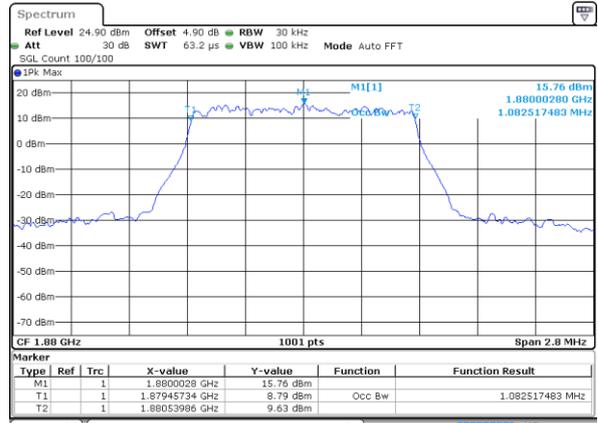
Date: 9 FEB 2018 08:15:09

Middle Channel / 1.4MHz / QPSK



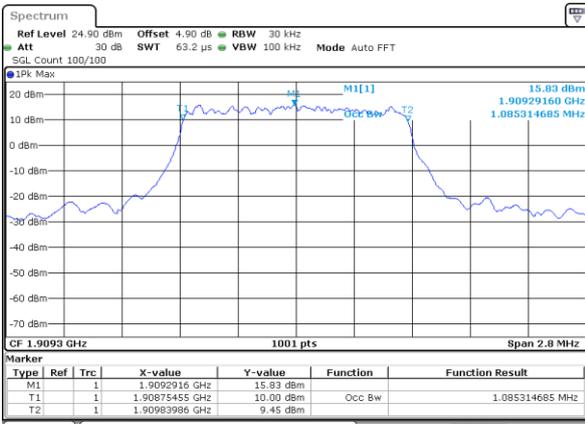
Date: 9 FEB 2018 08:22:05

Middle Channel / 1.4MHz / 16QAM



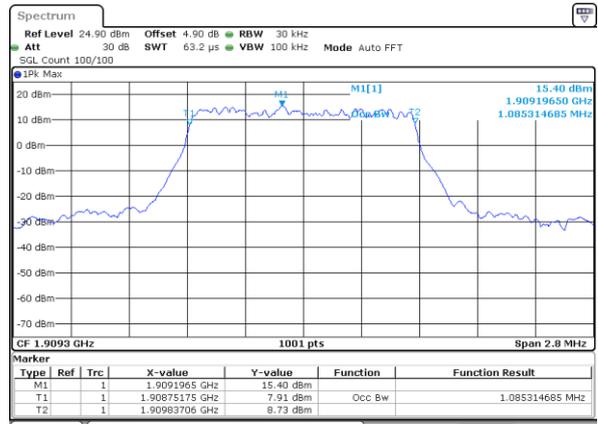
Date: 9 FEB 2018 08:22:16

Highest Channel / 1.4MHz / QPSK



Date: 9 FEB 2018 08:24:39

Highest Channel / 1.4MHz / 16QAM



Date: 9 FEB 2018 08:24:50