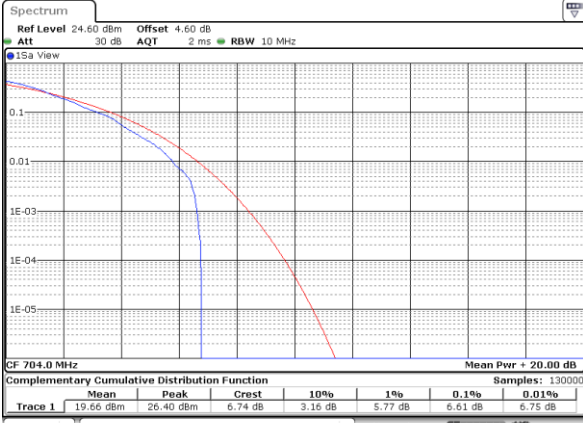




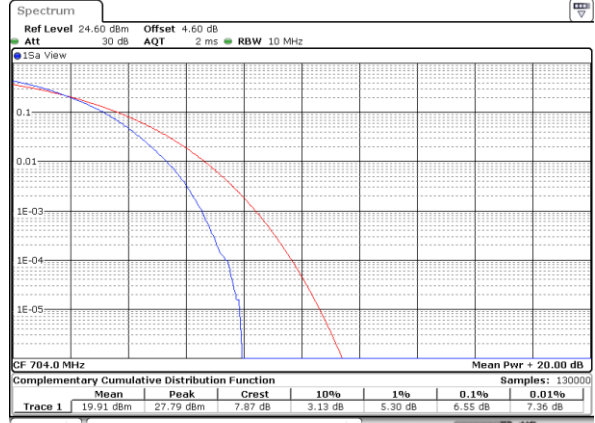
LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



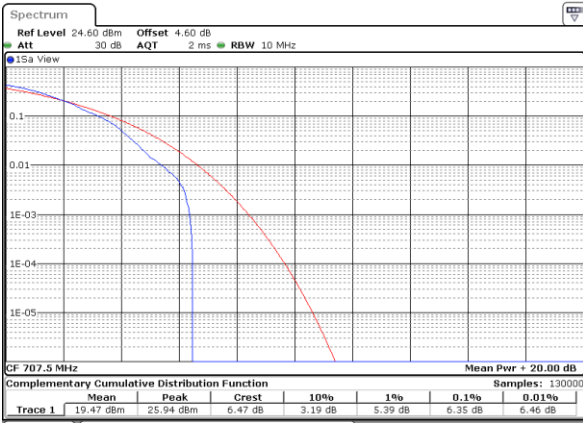
Date: 11 JAN 2020 18:55:49

Lowest Channel / Full RB



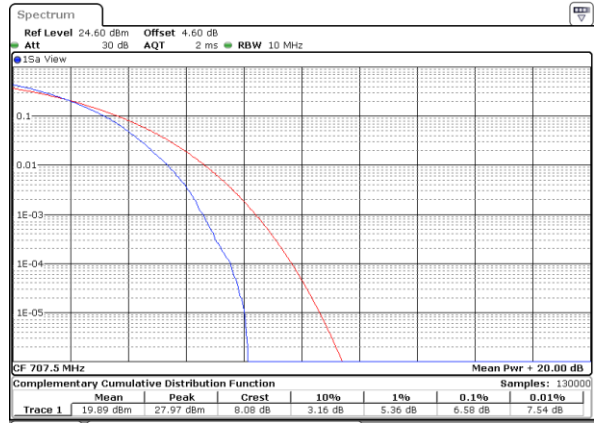
Date: 11 JAN 2020 18:55:58

Middle Channel / 1RB



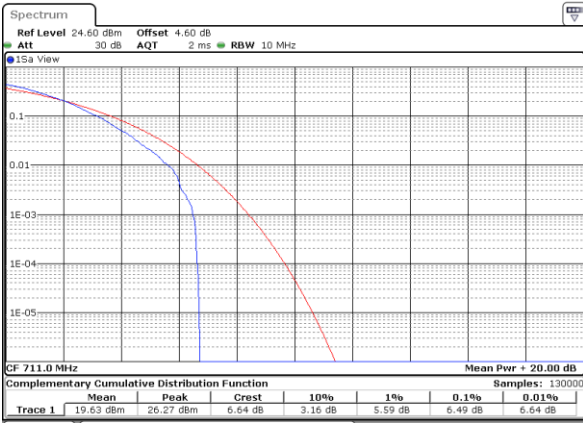
Date: 11 JAN 2020 18:56:15

Middle Channel / Full RB



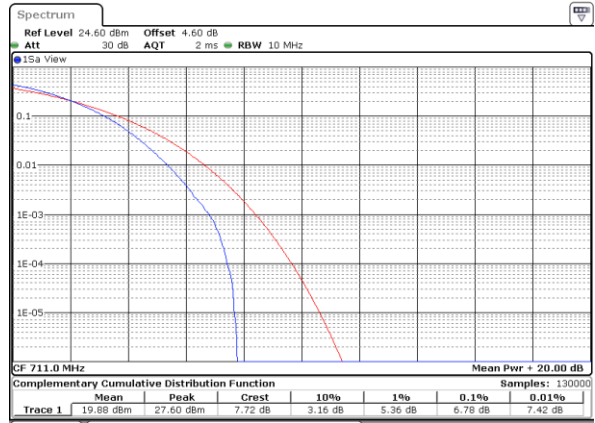
Date: 11 JAN 2020 18:56:07

Highest Channel / 1RB



Date: 11 JAN 2020 18:56:24

Highest Channel / Full RB



Date: 11 JAN 2020 18:56:33



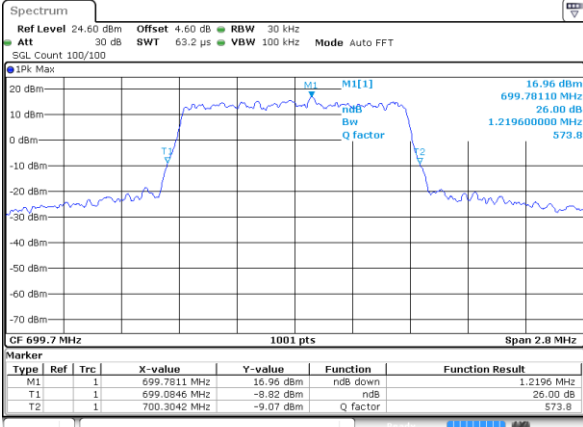
**26dB Bandwidth**

| Mode       | LTE Band 12 : 26dB BW(MHz) |        |       |       |       |       |       |       |        |       |       |       |
|------------|----------------------------|--------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
|            | 1.4MHz                     |        | 3MHz  |       | 5MHz  |       | 10MHz |       | 1.4MHz | 3MHz  | 5MHz  | 10MHz |
| BW         | QPSK                       | 16QAM  | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | 64QAM  | 64QAM | 64QAM | 64QAM |
| Lowest CH  | 1.2196                     | 1.2308 | 3.009 | 3.009 | 4.885 | 4.915 | 9.67  | 9.81  | 1.2308 | 3.045 | 4.925 | 9.81  |
| Middle CH  | 1.2168                     | 1.2252 | 3.033 | 2.997 | 4.995 | 4.875 | 9.81  | 9.77  | 1.2336 | 2.985 | 4.935 | 9.67  |
| Highest CH | 1.2224                     | 1.2336 | 3.033 | 2.967 | 4.885 | 4.825 | 9.65  | 9.69  | 1.2252 | 2.985 | 4.785 | 9.91  |



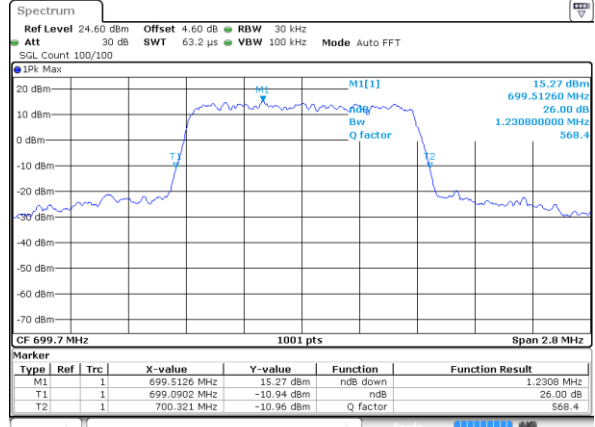
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



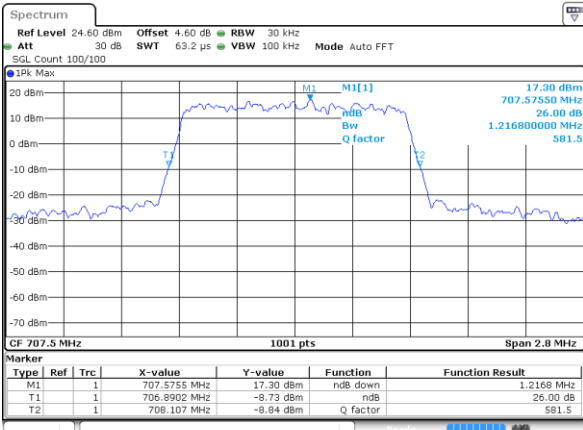
Date: 11 JAN 2020 17:05:45

Lowest Channel / 1.4MHz / 16QAM



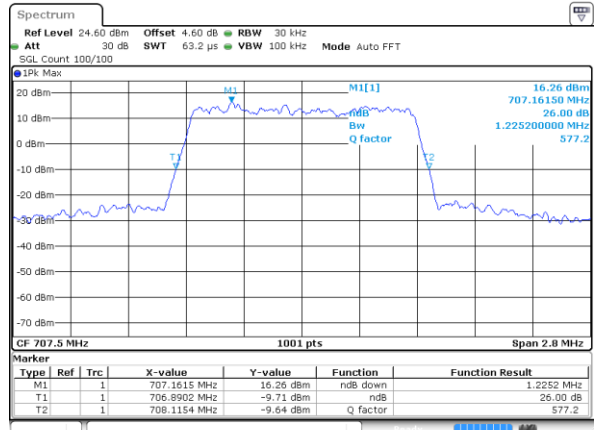
Date: 11 JAN 2020 17:05:35

Middle Channel / 1.4MHz / QPSK



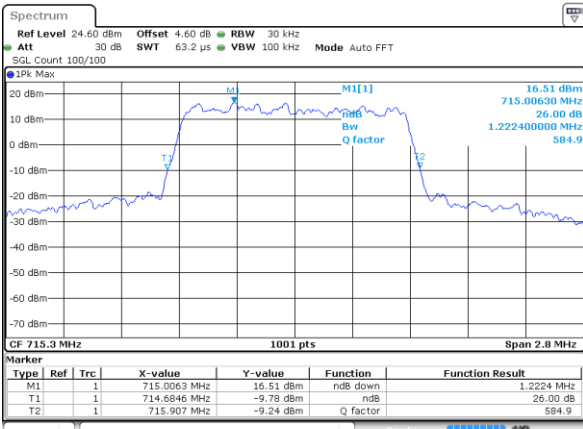
Date: 11 JAN 2020 17:05:15

Middle Channel / 1.4MHz / 16QAM



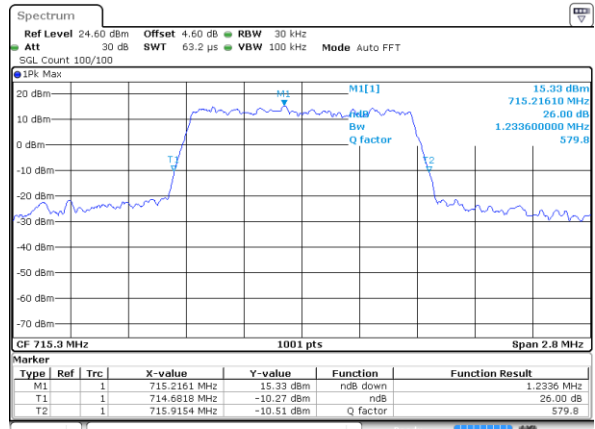
Date: 11 JAN 2020 17:05:25

Highest Channel / 1.4MHz / QPSK



Date: 11 JAN 2020 17:05:05

Highest Channel / 1.4MHz / 16QAM

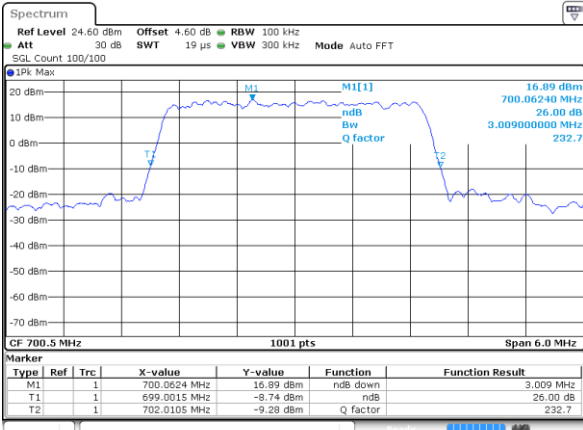


Date: 11 JAN 2020 17:04:55



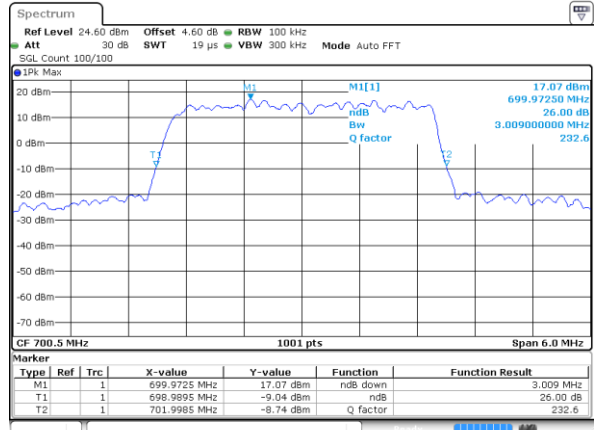
LTE Band 12

Lowest Channel / 3MHz / QPSK



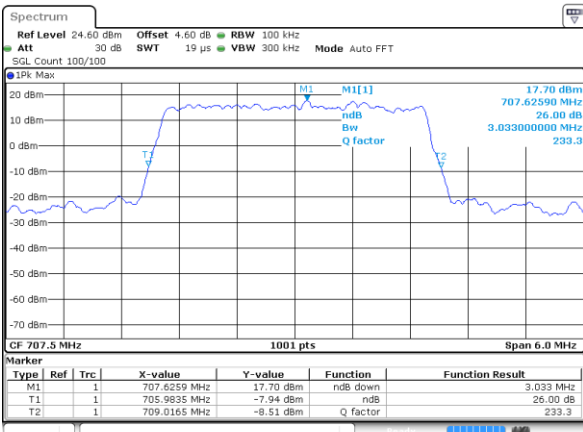
Date: 11 JAN 2020 17:21:17

Lowest Channel / 3MHz / 16QAM



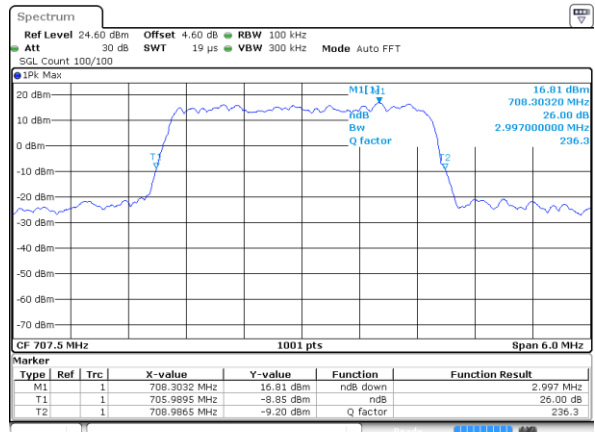
Date: 11 JAN 2020 17:21:07

Middle Channel / 3MHz / QPSK



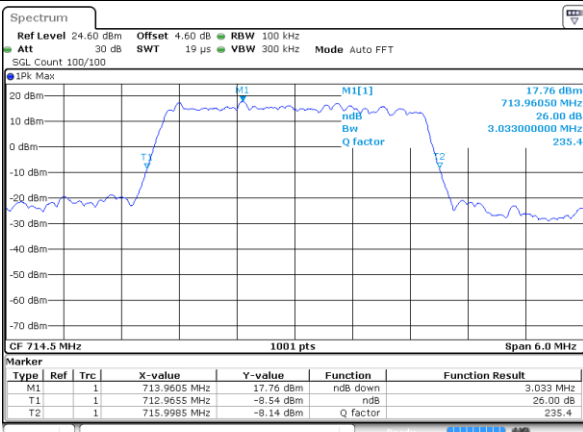
Date: 11 JAN 2020 17:20:47

Middle Channel / 3MHz / 16QAM



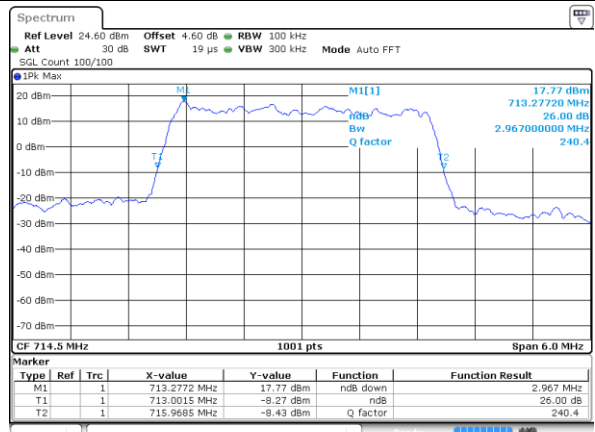
Date: 11 JAN 2020 17:20:57

Highest Channel / 3MHz / QPSK



Date: 11 JAN 2020 17:20:37

Highest Channel / 3MHz / 16QAM

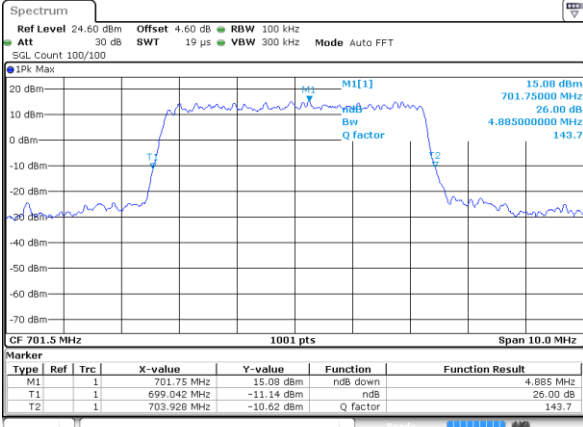


Date: 11 JAN 2020 17:20:27



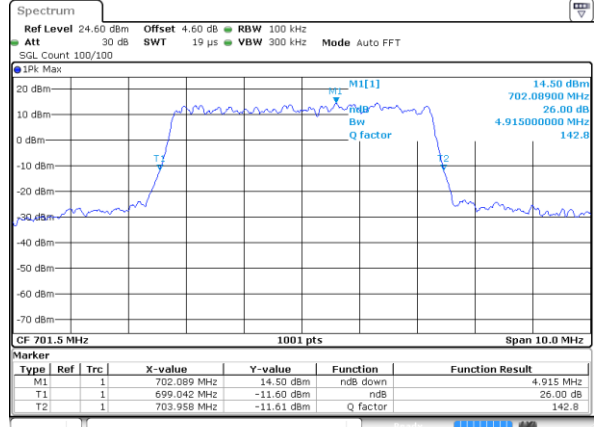
LTE Band 12

Lowest Channel / 5MHz / QPSK



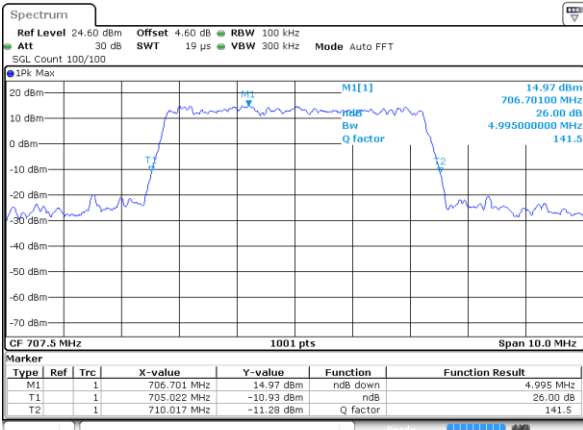
Date: 11 JAN 2020 17:37:44

Lowest Channel / 5MHz / 16QAM



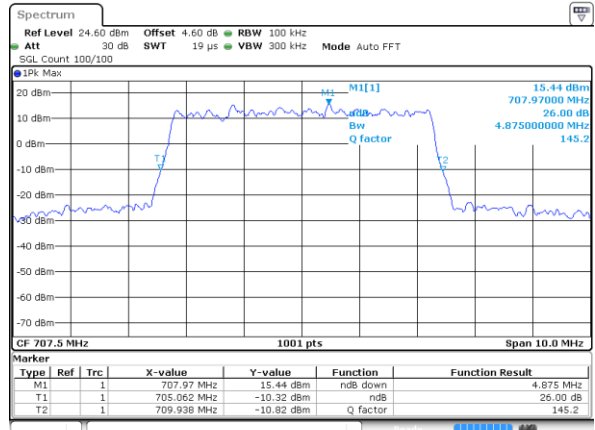
Date: 11 JAN 2020 17:37:34

Middle Channel / 5MHz / QPSK



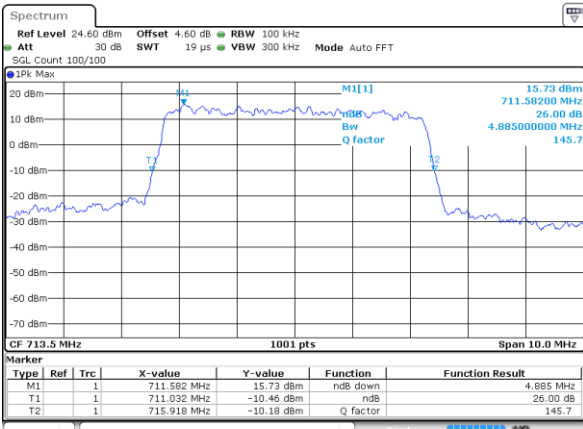
Date: 11 JAN 2020 17:37:14

Middle Channel / 5MHz / 16QAM



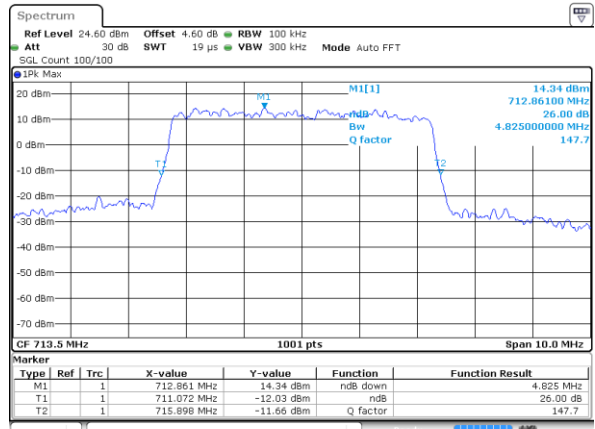
Date: 11 JAN 2020 17:37:24

Highest Channel / 5MHz / QPSK



Date: 11 JAN 2020 17:37:04

Highest Channel / 5MHz / 16QAM

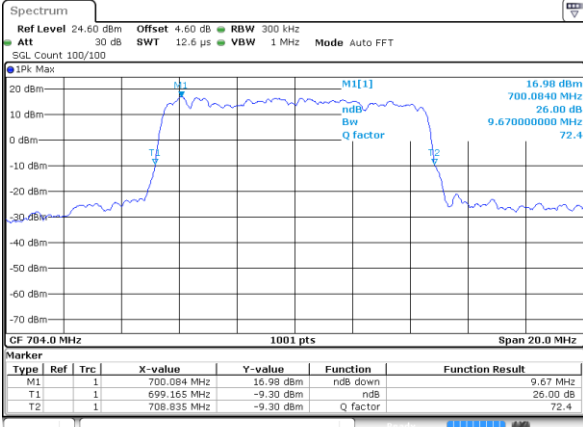


Date: 11 JAN 2020 17:36:54



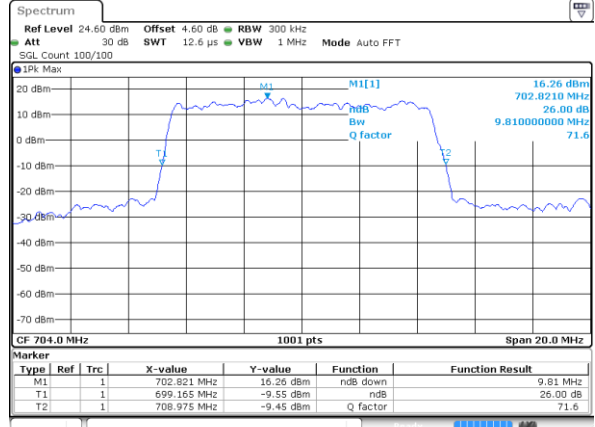
LTE Band 12

Lowest Channel / 10MHz / QPSK



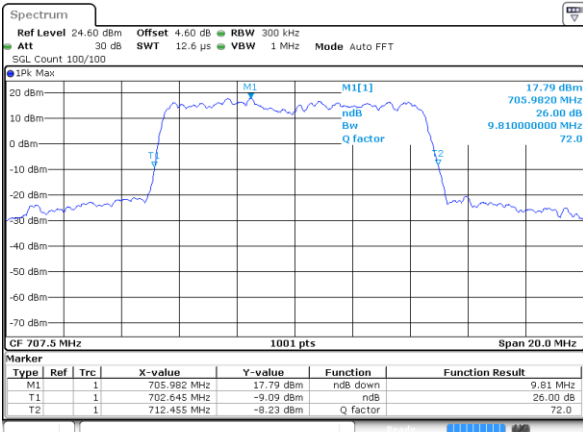
Date: 11 JAN 2020 17:54:10

Lowest Channel / 10MHz / 16QAM



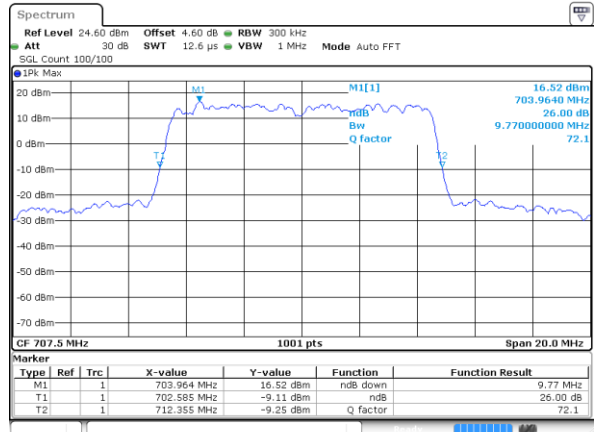
Date: 11 JAN 2020 17:54:00

Middle Channel / 10MHz / QPSK



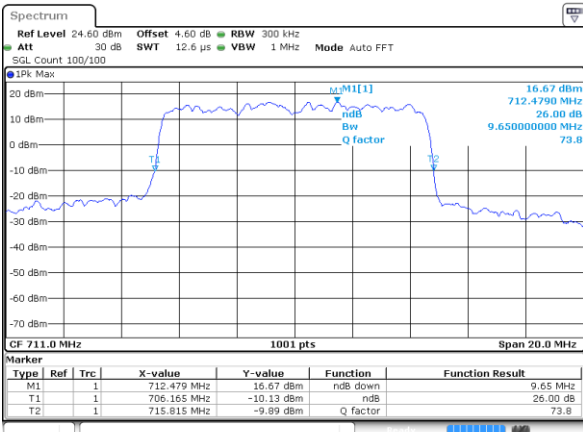
Date: 11 JAN 2020 17:53:40

Middle Channel / 10MHz / 16QAM



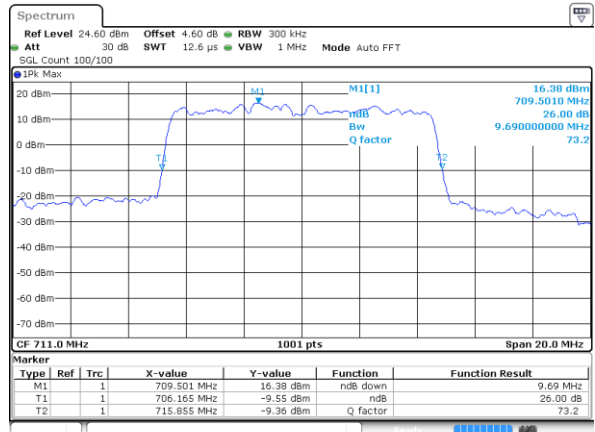
Date: 11 JAN 2020 17:53:50

Highest Channel / 10MHz / QPSK



Date: 11 JAN 2020 17:53:30

Highest Channel / 10MHz / 16QAM

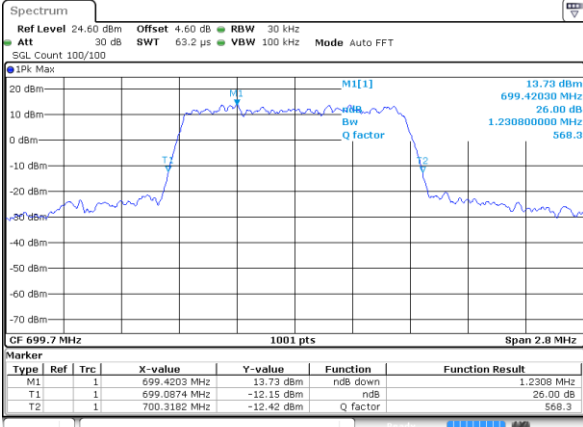


Date: 11 JAN 2020 17:53:20

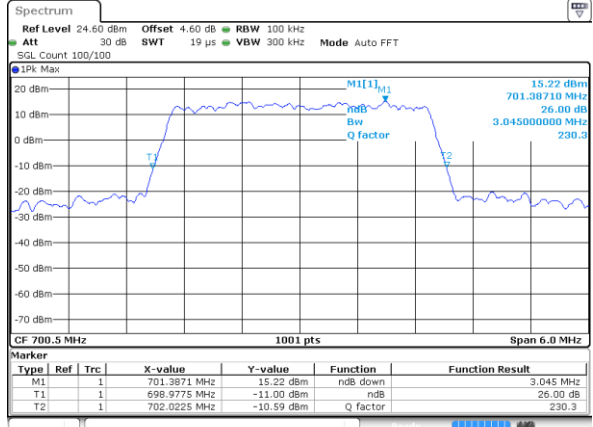


LTE Band 12

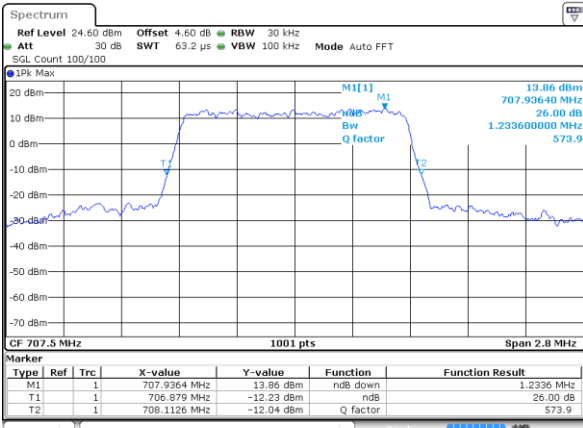
Lowest Channel / 1.4MHz / 64QAM



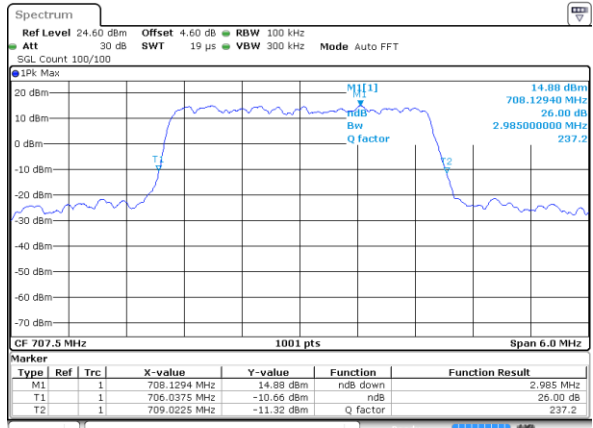
Lowest Channel / 3MHz / 64QAM



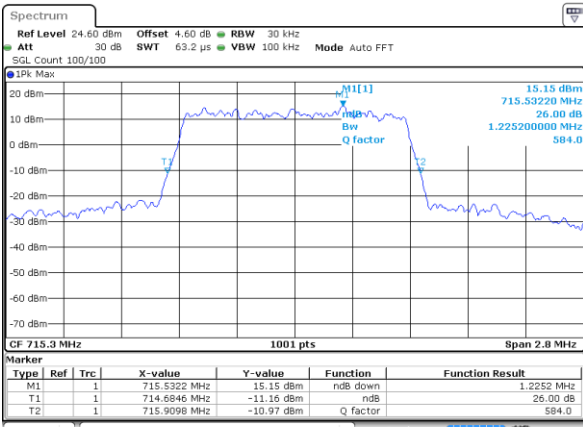
Middle Channel / 1.4MHz / 64QAM



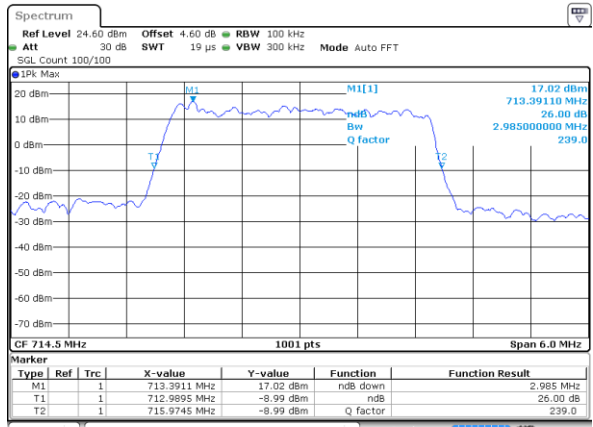
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



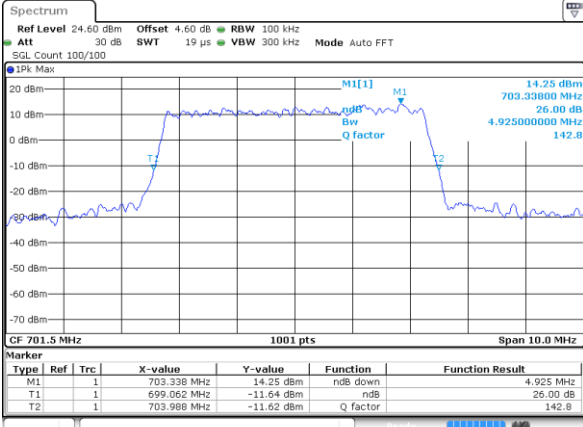
Highest Channel / 3MHz / 64QAM





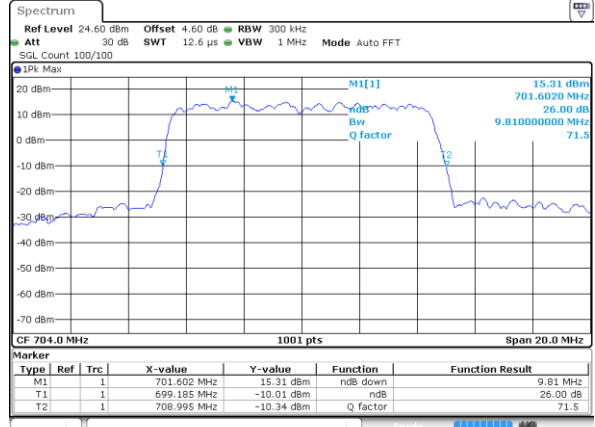
LTE Band 12

Lowest Channel / 5MHz / 64QAM



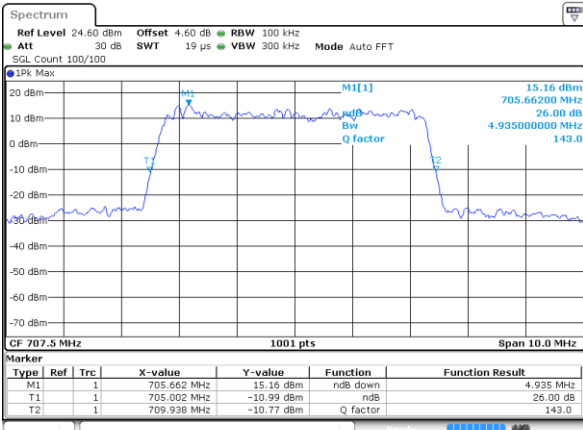
Date: 11 JAN 2020 18:25:23

Lowest Channel / 10MHz / 64QAM



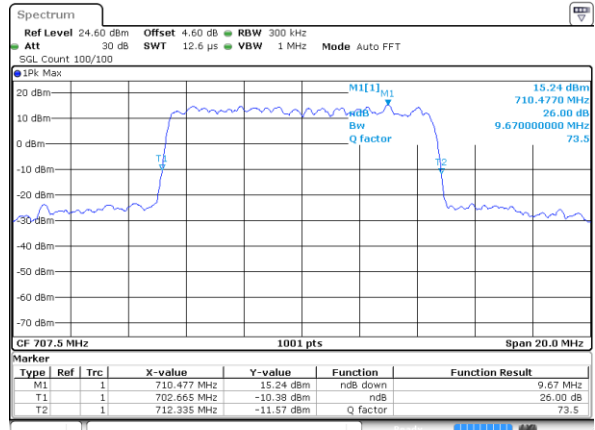
Date: 11 JAN 2020 18:36:19

Middle Channel / 5MHz / 64QAM



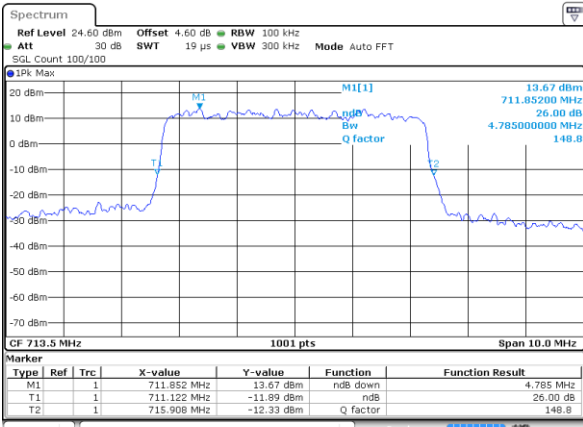
Date: 11 JAN 2020 18:25:43

Middle Channel / 10MHz / 64QAM



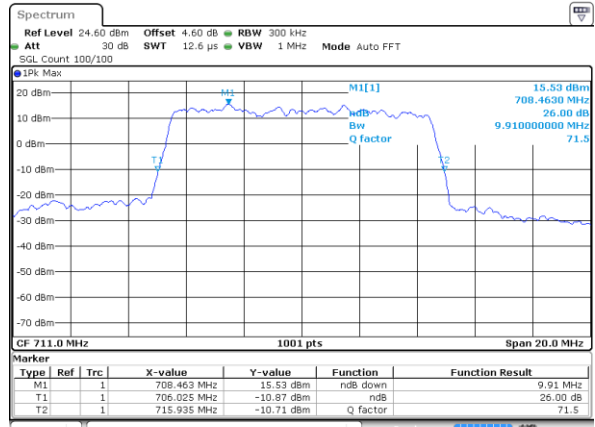
Date: 11 JAN 2020 18:36:39

Highest Channel / 5MHz / 64QAM



Date: 11 JAN 2020 18:26:03

Highest Channel / 10MHz / 64QAM



Date: 11 JAN 2020 18:36:59





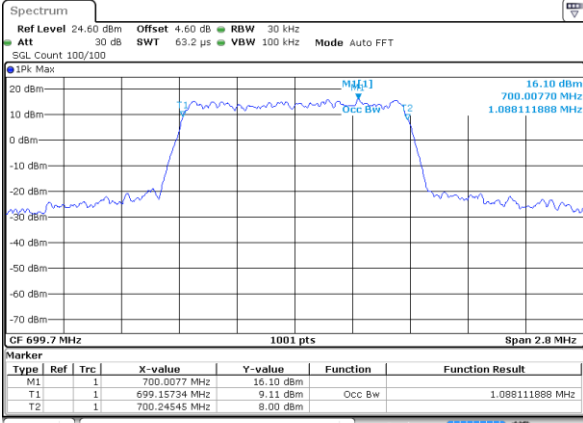
### Occupied Bandwidth

| Mode       | LTE Band 12 : 99%OBW(MHz) |       |      |       |      |       |       |       |        |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|--------|-------|-------|-------|
|            | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 1.4MHz | 3MHz  | 5MHz  | 10MHz |
| BW         | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | 64QAM  | 64QAM | 64QAM | 64QAM |
| Lowest CH  | 1.09                      | 1.08  | 2.70 | 2.72  | 4.48 | 4.49  | 9.01  | 8.97  | 1.09   | 2.73  | 4.48  | 8.95  |
| Middle CH  | 1.10                      | 1.09  | 2.72 | 2.73  | 4.49 | 4.50  | 9.01  | 9.03  | 1.09   | 2.71  | 4.55  | 9.07  |
| Highest CH | 1.09                      | 1.09  | 2.72 | 2.72  | 4.49 | 4.49  | 8.99  | 8.97  | 1.09   | 2.73  | 4.46  | 9.01  |



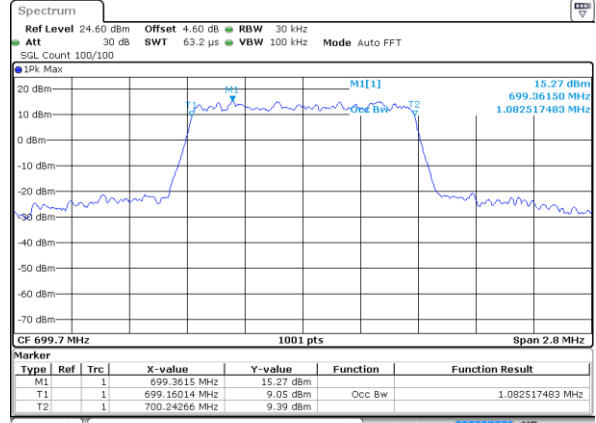
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



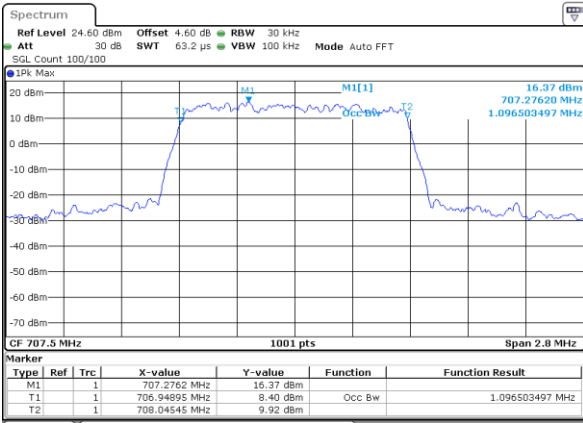
Date: 11 JAN 2020 17:03:54

Lowest Channel / 1.4MHz / 16QAM



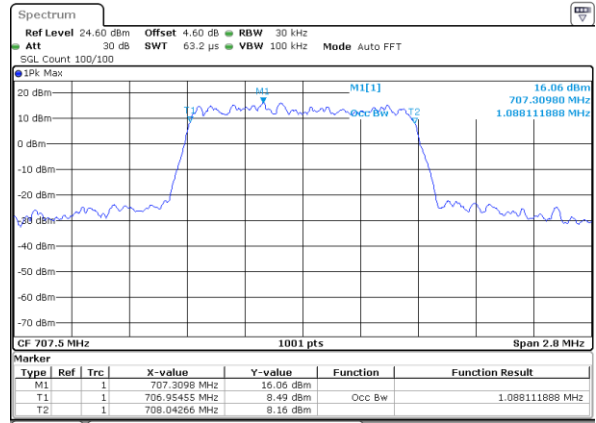
Date: 11 JAN 2020 17:04:04

Middle Channel / 1.4MHz / QPSK



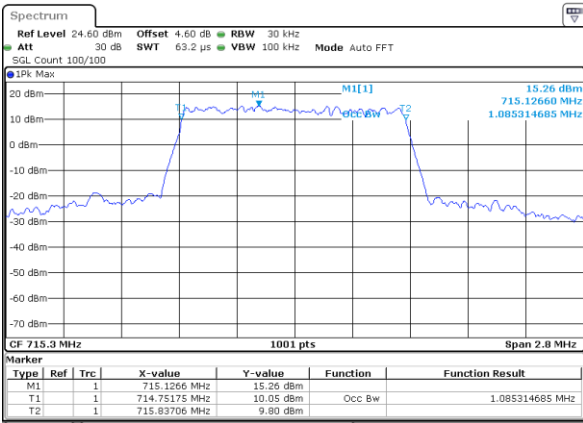
Date: 11 JAN 2020 17:04:25

Middle Channel / 1.4MHz / 16QAM



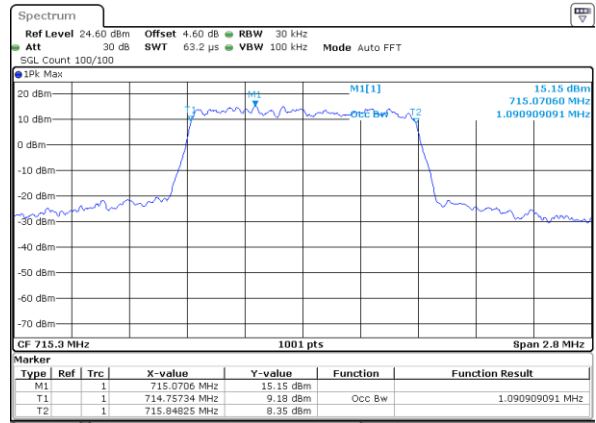
Date: 11 JAN 2020 17:04:14

Highest Channel / 1.4MHz / QPSK



Date: 11 JAN 2020 17:04:35

Highest Channel / 1.4MHz / 16QAM

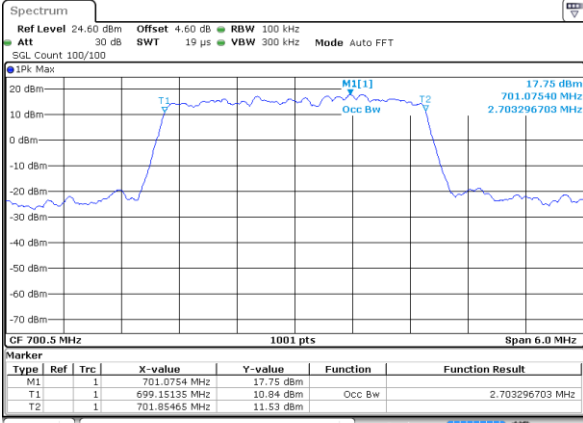


Date: 11 JAN 2020 17:04:45



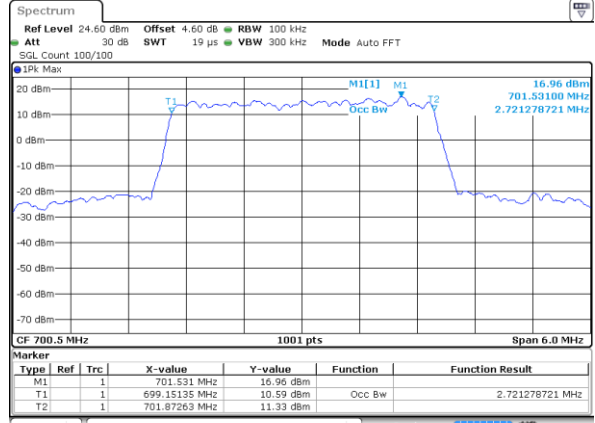
LTE Band 12

Lowest Channel / 3MHz / QPSK



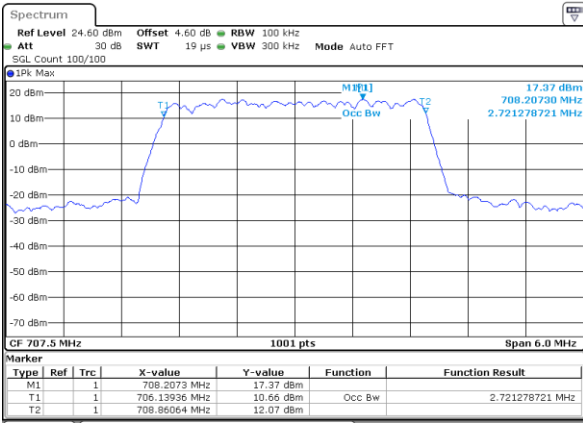
Date: 11 JAN 2020 17:19:27

Lowest Channel / 3MHz / 16QAM



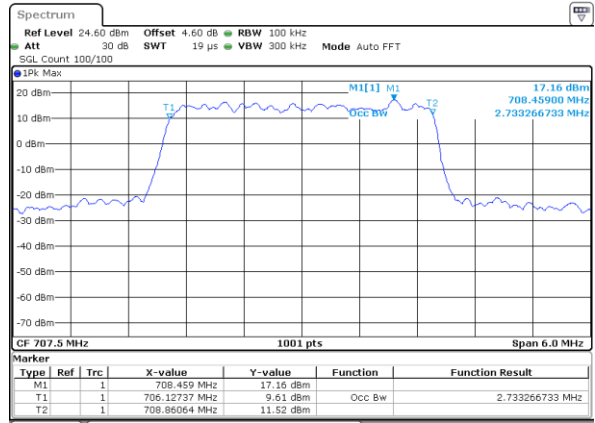
Date: 11 JAN 2020 17:19:37

Middle Channel / 3MHz / QPSK



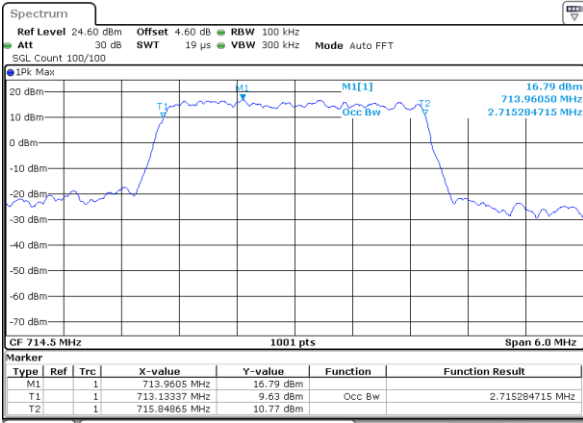
Date: 11 JAN 2020 17:19:57

Middle Channel / 3MHz / 16QAM



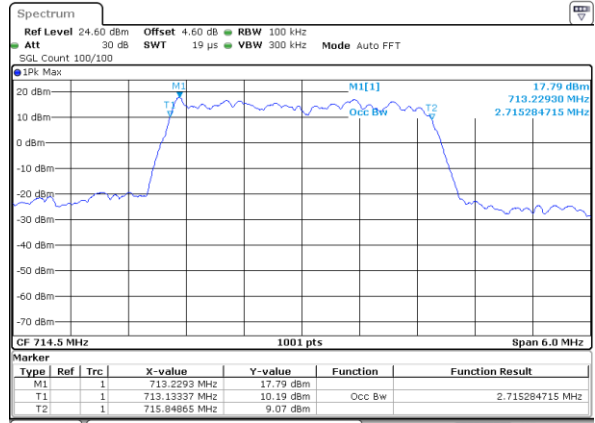
Date: 11 JAN 2020 17:19:47

Highest Channel / 3MHz / QPSK



Date: 11 JAN 2020 17:20:07

Highest Channel / 3MHz / 16QAM

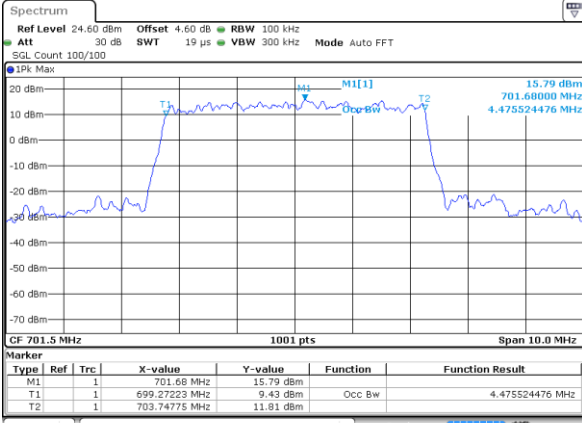


Date: 11 JAN 2020 17:20:17



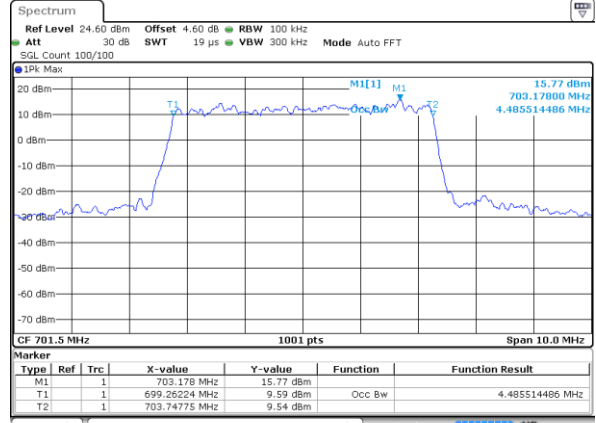
LTE Band 12

Lowest Channel / 5MHz / QPSK



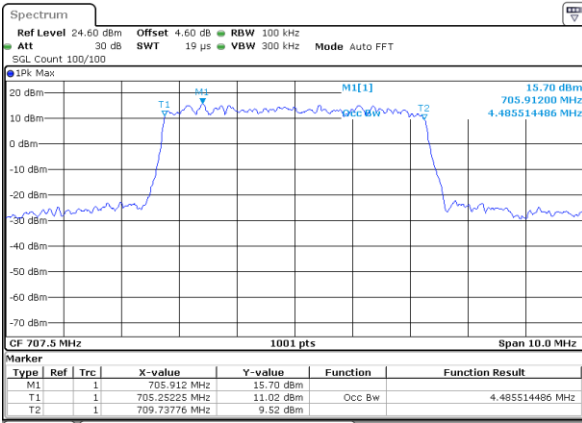
Date: 11 JAN 2020 17:35:53

Lowest Channel / 5MHz / 16QAM



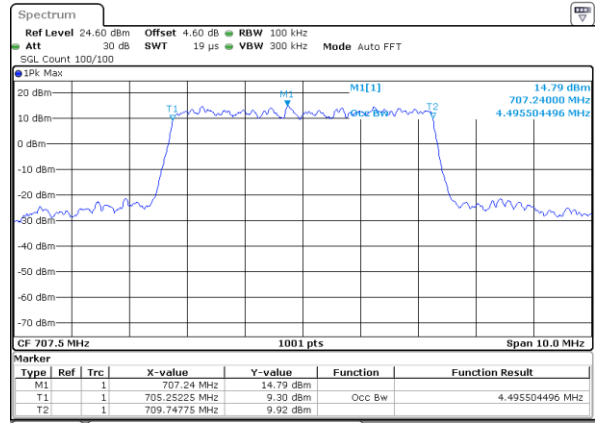
Date: 11 JAN 2020 17:36:03

Middle Channel / 5MHz / QPSK



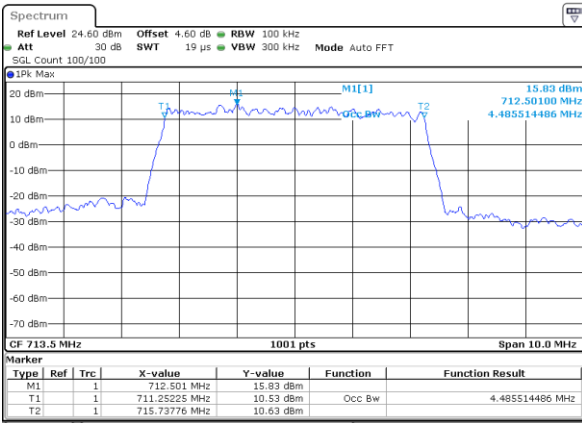
Date: 11 JAN 2020 17:36:24

Middle Channel / 5MHz / 16QAM



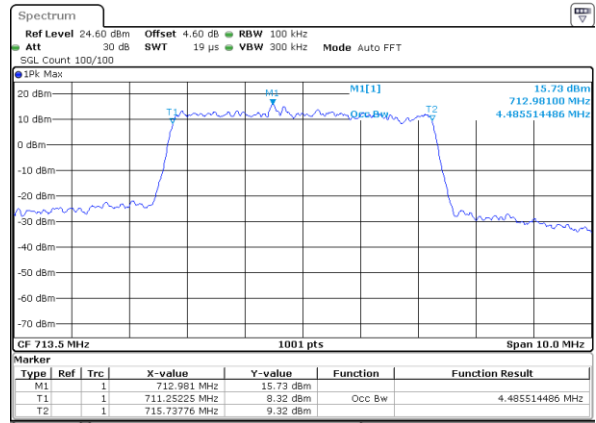
Date: 11 JAN 2020 17:36:13

Highest Channel / 5MHz / QPSK



Date: 11 JAN 2020 17:36:34

Highest Channel / 5MHz / 16QAM

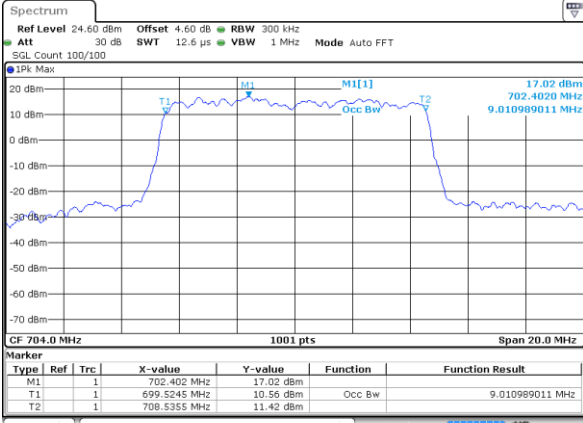


Date: 11 JAN 2020 17:36:44



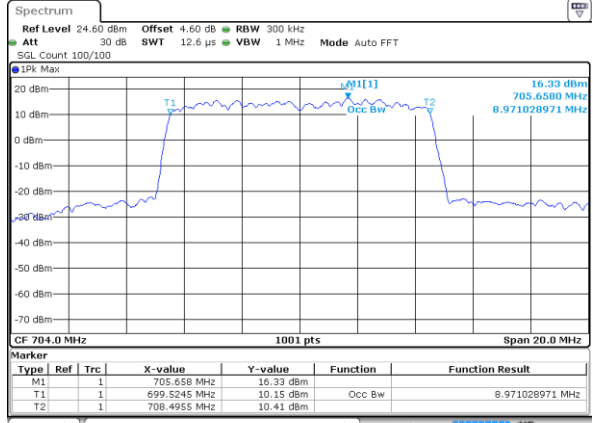
LTE Band 12

Lowest Channel / 10MHz / QPSK



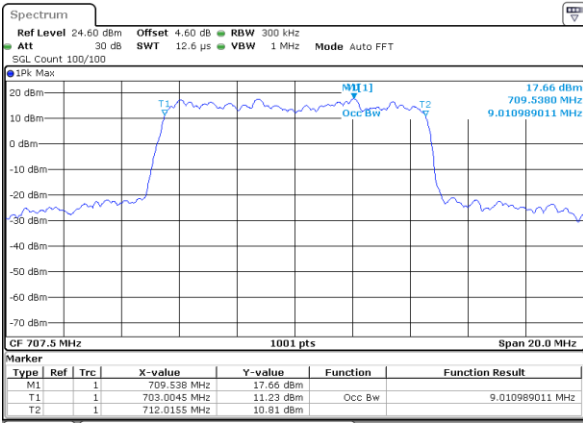
Date: 11 JAN 2020 17:52:20

Lowest Channel / 10MHz / 16QAM



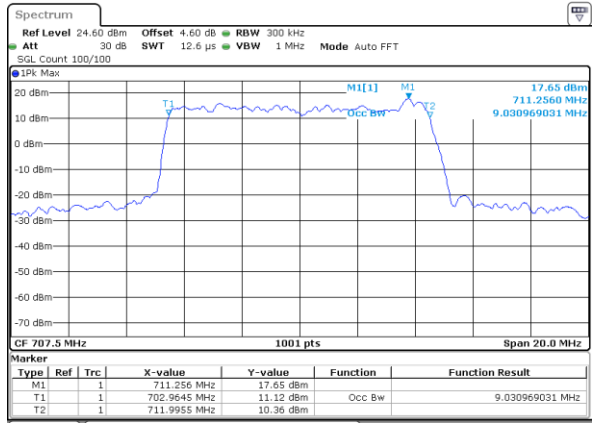
Date: 11 JAN 2020 17:52:30

Middle Channel / 10MHz / QPSK



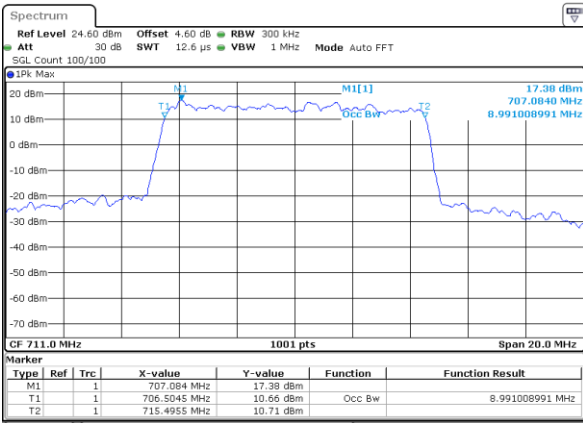
Date: 11 JAN 2020 17:52:50

Middle Channel / 10MHz / 16QAM



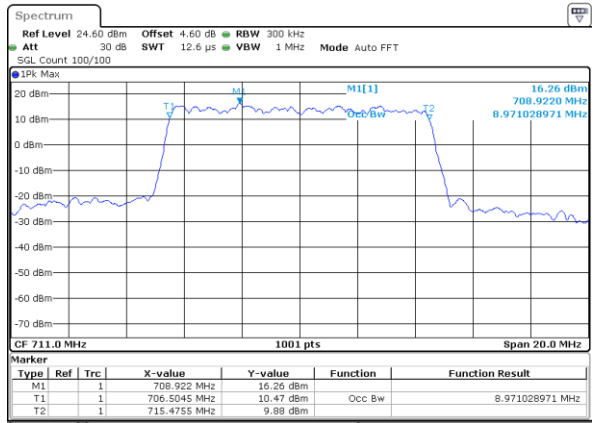
Date: 11 JAN 2020 17:52:40

Highest Channel / 10MHz / QPSK



Date: 11 JAN 2020 17:53:00

Highest Channel / 10MHz / 16QAM

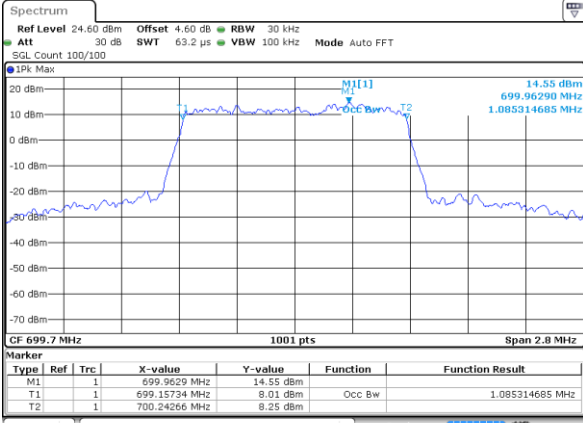


Date: 11 JAN 2020 17:53:10



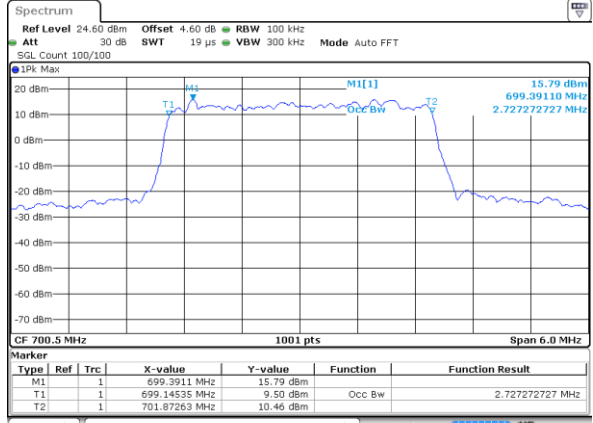
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



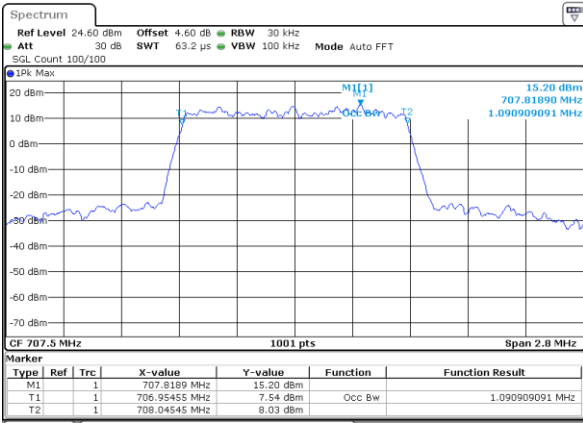
Date: 11 JAN 2020 18:08:46

Lowest Channel / 3MHz / 64QAM



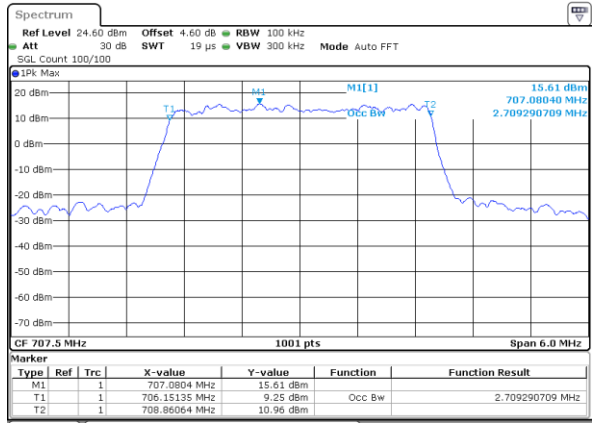
Date: 11 JAN 2020 18:19:43

Middle Channel / 1.4MHz / 64QAM



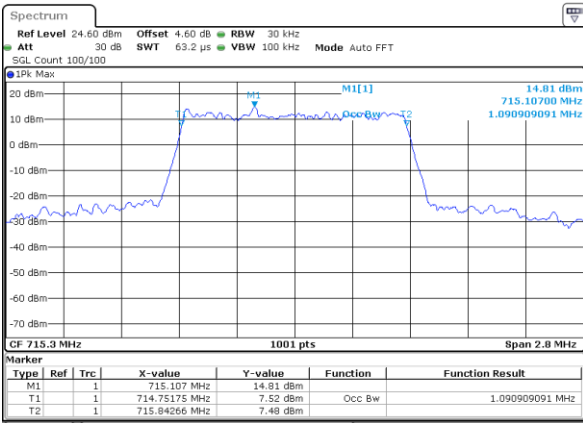
Date: 11 JAN 2020 18:09:06

Middle Channel / 3MHz / 64QAM



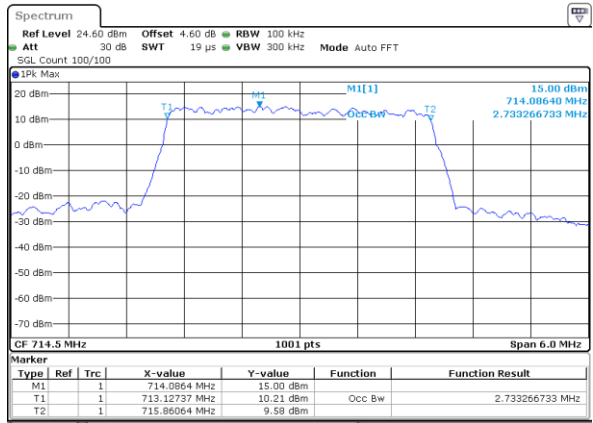
Date: 11 JAN 2020 18:20:03

Highest Channel / 1.4MHz / 64QAM



Date: 11 JAN 2020 18:09:27

Highest Channel / 3MHz / 64QAM

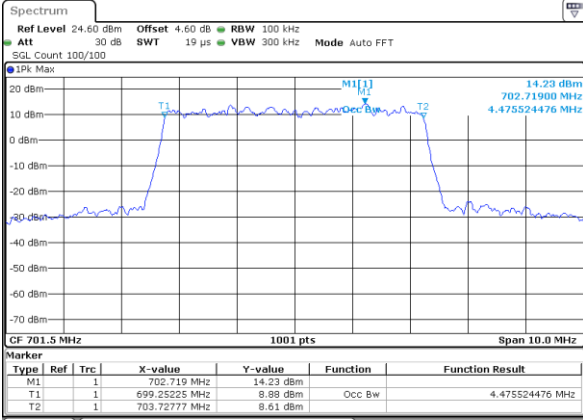


Date: 11 JAN 2020 18:20:23



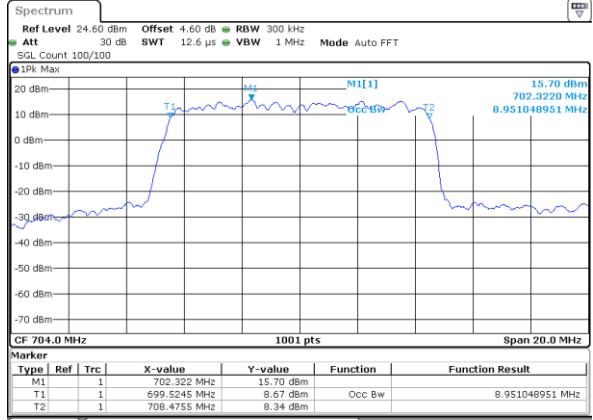
LTE Band 12

Lowest Channel / 5MHz / 64QAM



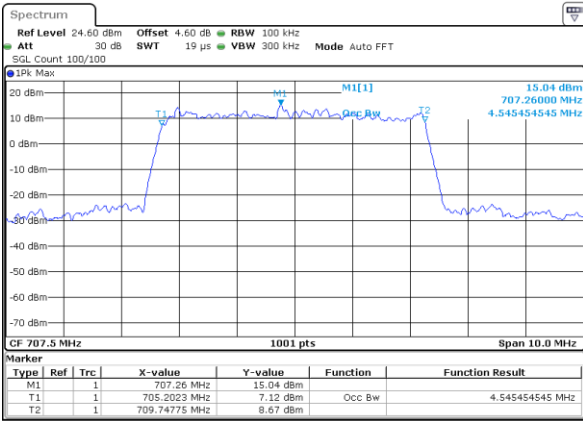
Date: 11, JAN 2020 18:25:13

Lowest Channel / 10MHz / 64QAM



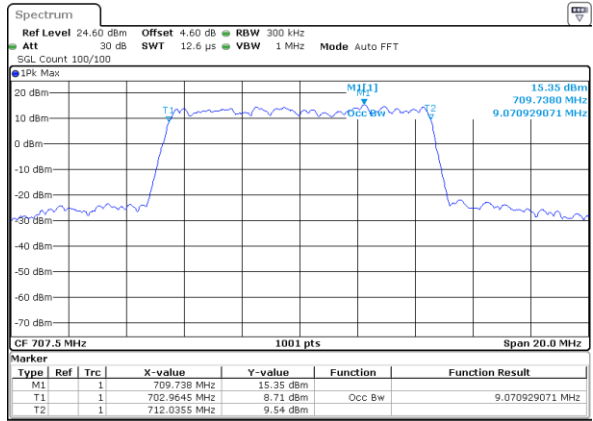
Date: 11, JAN 2020 18:36:09

Middle Channel / 5MHz / 64QAM



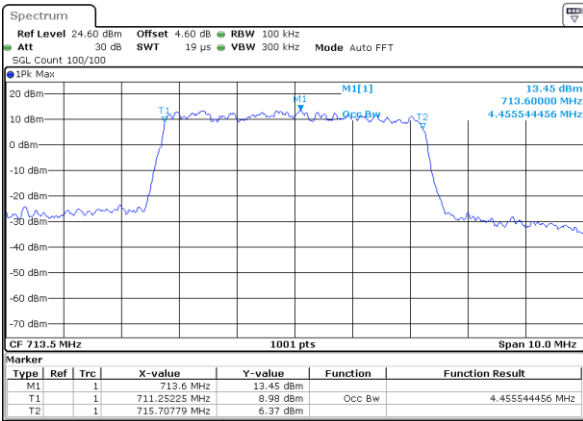
Date: 11, JAN 2020 18:25:33

Middle Channel / 10MHz / 64QAM



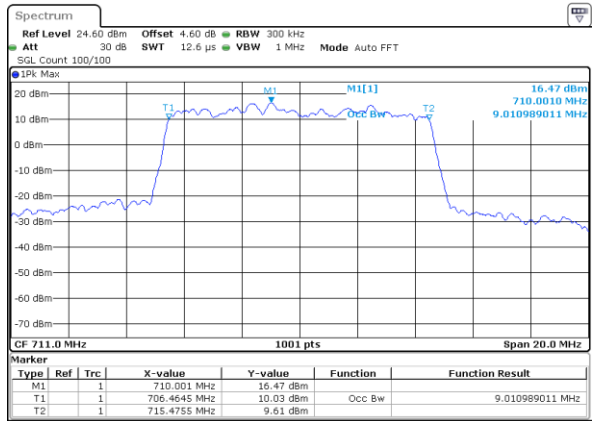
Date: 11, JAN 2020 18:36:29

Highest Channel / 5MHz / 64QAM



Date: 11, JAN 2020 18:25:53

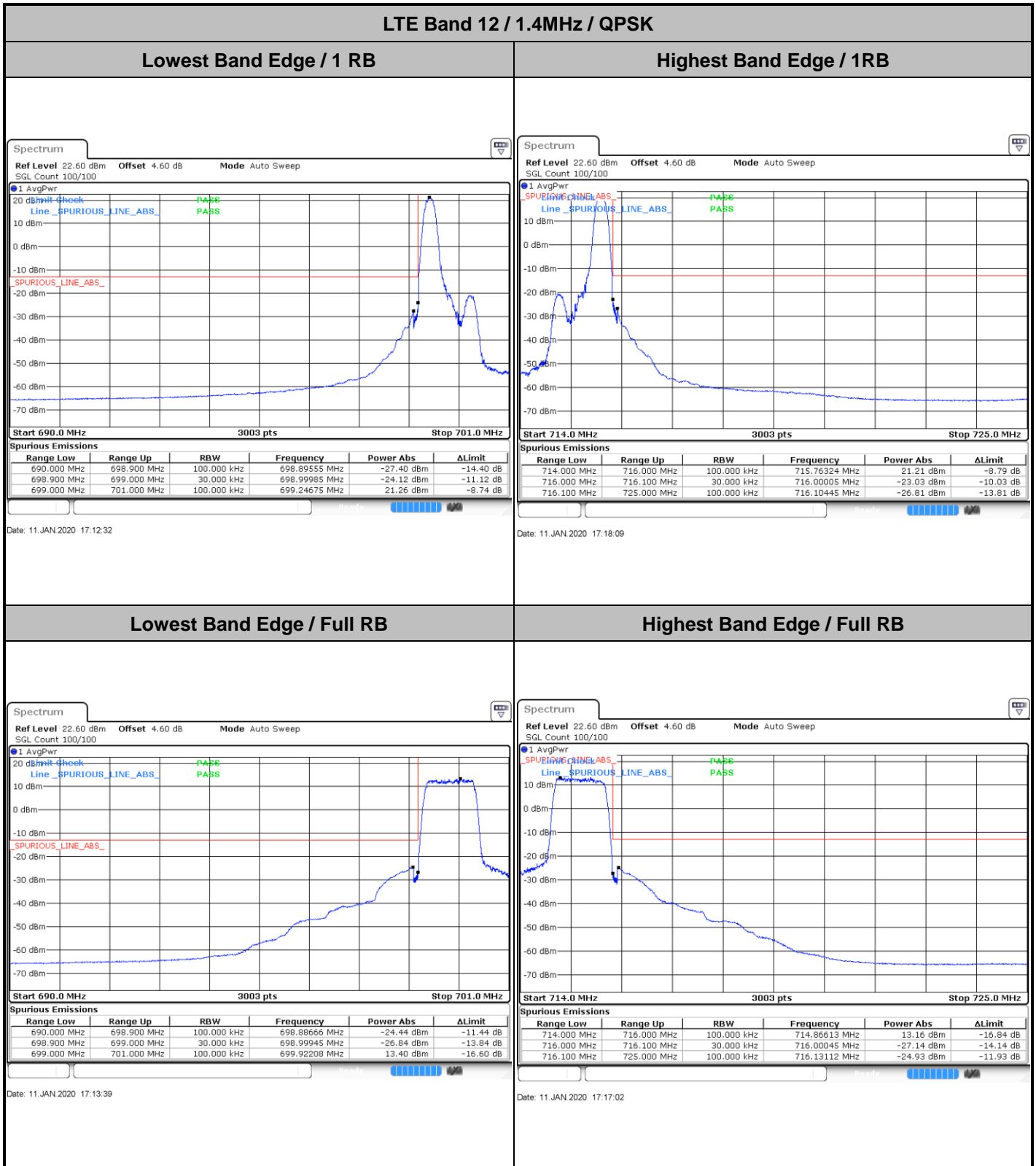
Highest Channel / 10MHz / 64QAM



Date: 11, JAN 2020 18:36:49



# Conducted Band Edge

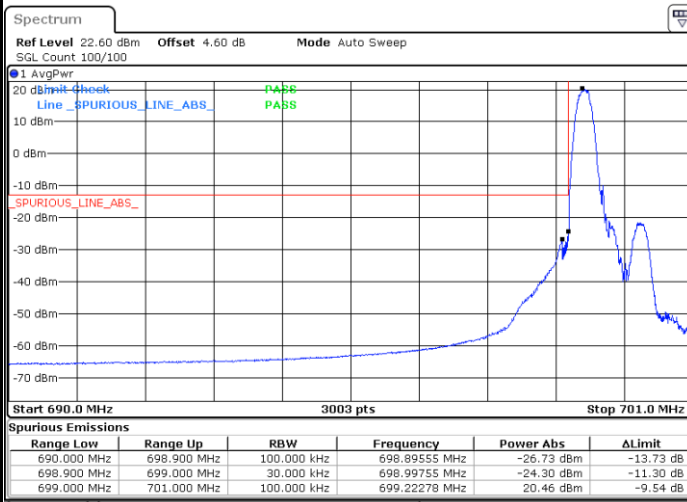






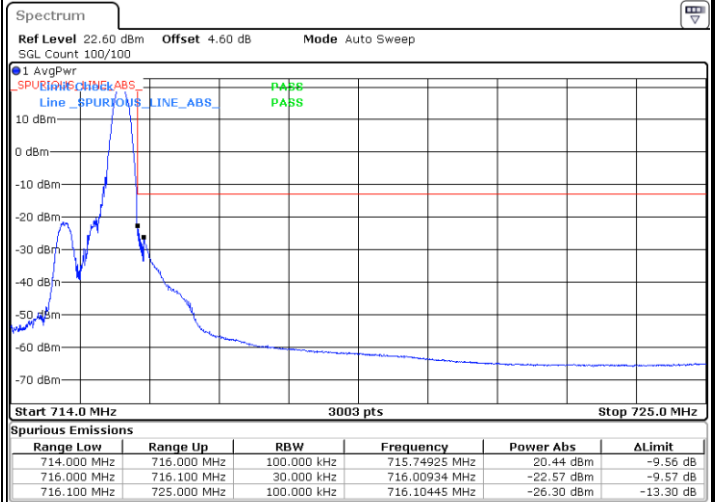
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



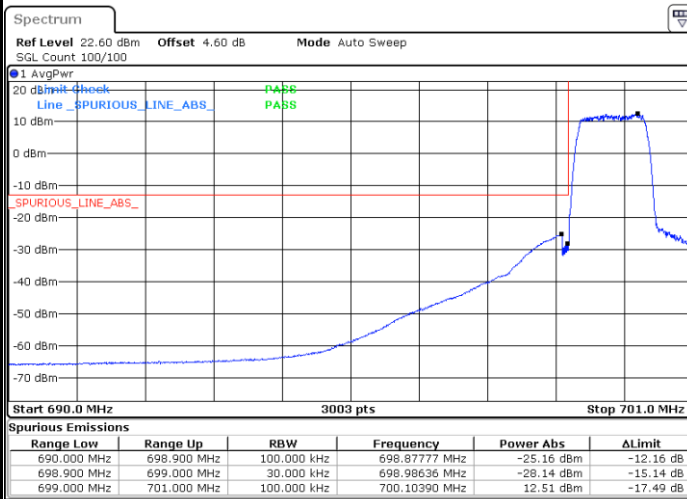
Date: 11.JAN.2020 17:11:24

Highest Band Edge / 1 RB



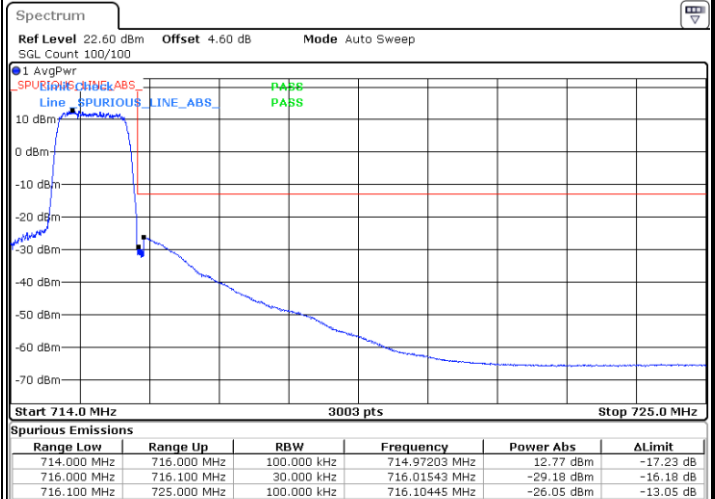
Date: 11.JAN.2020 17:19:17

Lowest Band Edge / Full RB



Date: 11.JAN.2020 17:14:47

Highest Band Edge / Full RB

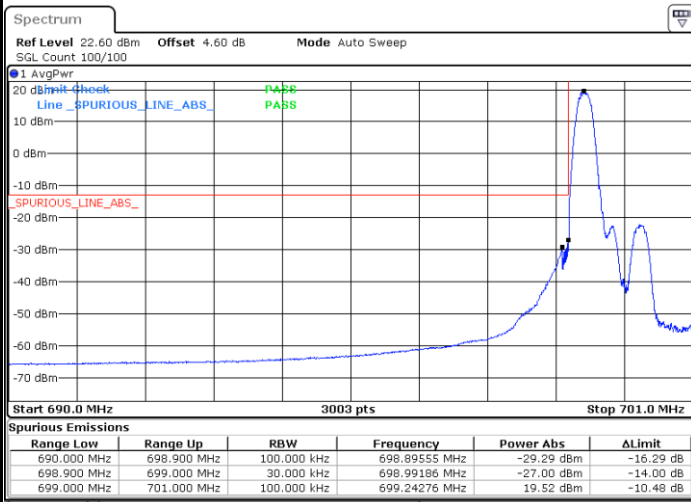


Date: 11.JAN.2020 17:15:55



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



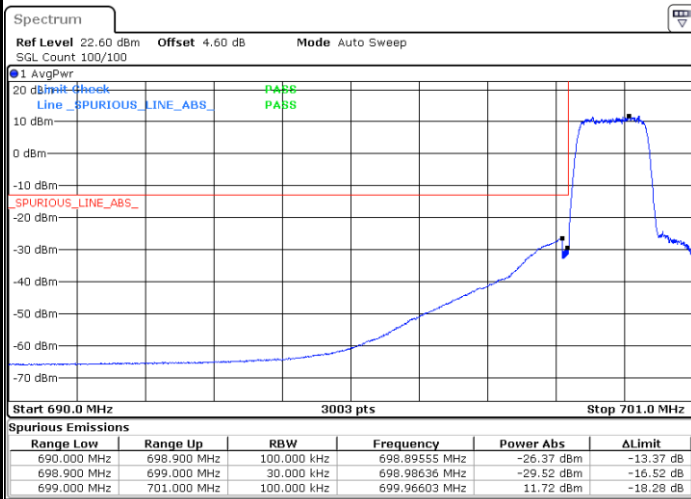
Date: 11.JAN.2020 18:12:59

Highest Band Edge / 1 RB



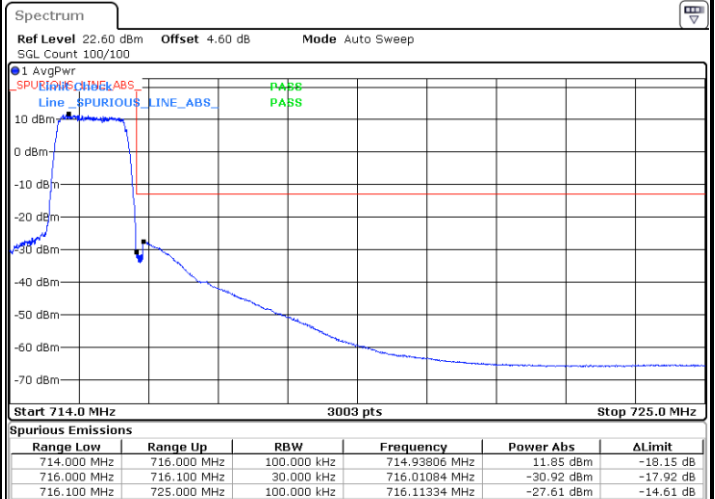
Date: 11.JAN.2020 18:10:44

Lowest Band Edge / Full RB



Date: 11.JAN.2020 18:14:07

Highest Band Edge / Full RB

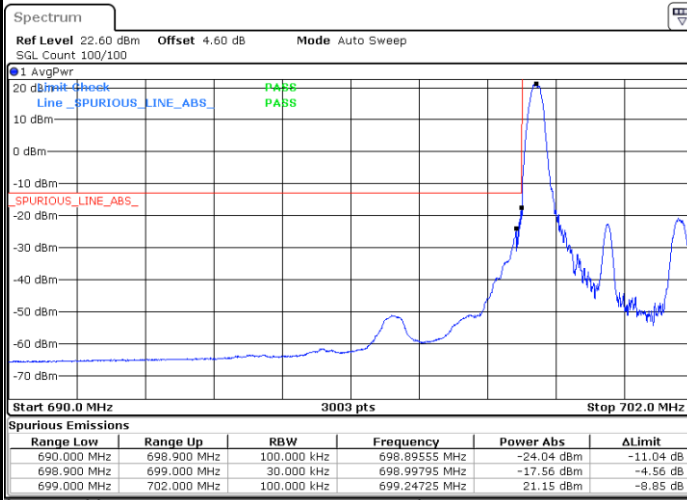


Date: 11.JAN.2020 18:11:52



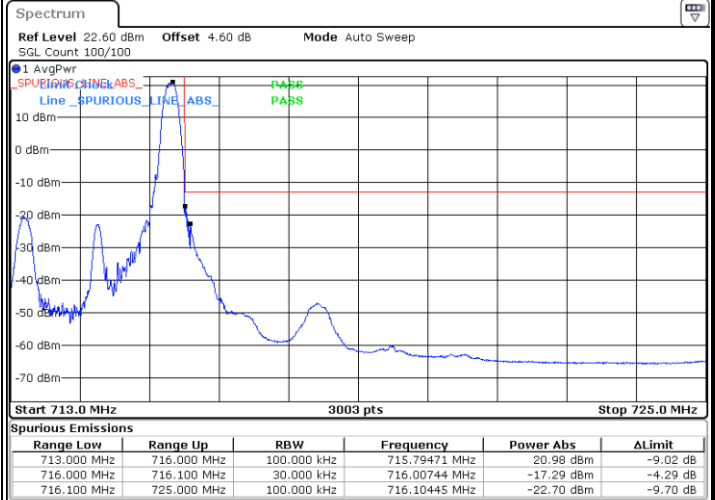
LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



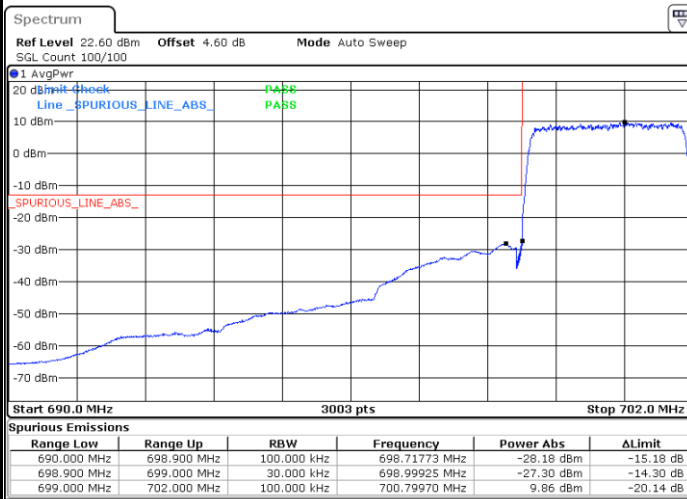
Date: 11. JAN 2020 17:28:59

Highest Band Edge / 1 RB



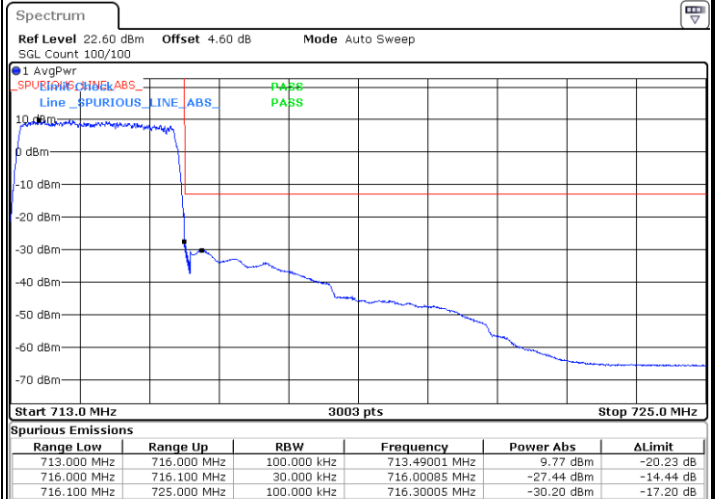
Date: 11. JAN 2020 17:34:36

Lowest Band Edge / Full RB



Date: 11. JAN 2020 17:30:06

Highest Band Edge / Full RB



Date: 11. JAN 2020 17:33:29



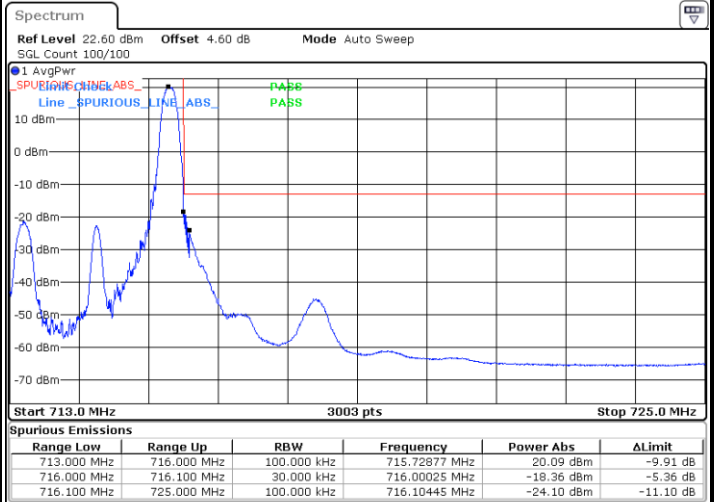
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



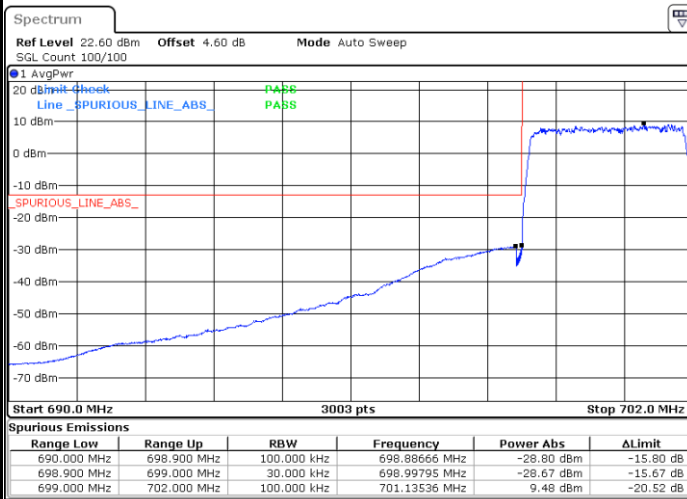
Date: 11.JAN.2020 17:27:51

Highest Band Edge / 1 RB



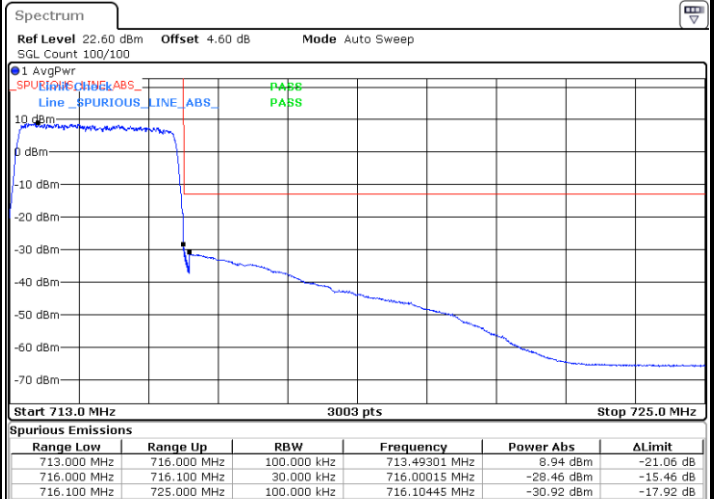
Date: 11.JAN.2020 17:35:44

Lowest Band Edge / Full RB



Date: 11.JAN.2020 17:31:14

Highest Band Edge / Full RB

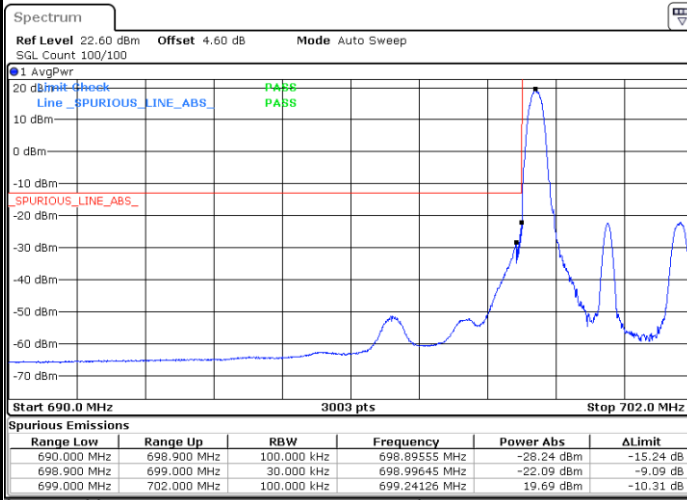


Date: 11.JAN.2020 17:32:21



LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



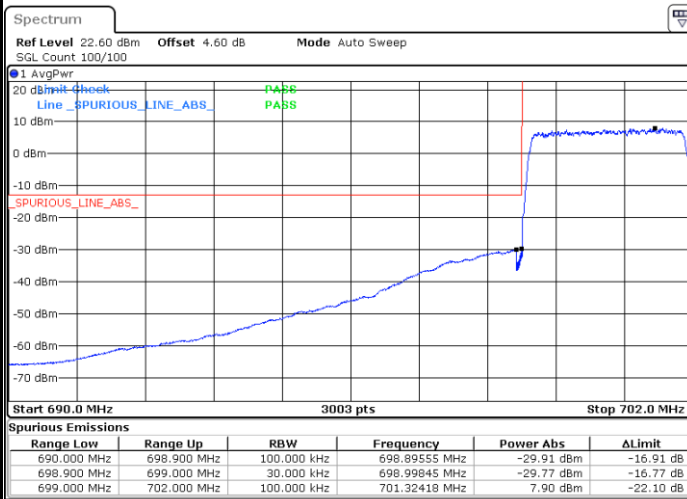
Date: 11.JAN.2020 18:21:41

Highest Band Edge / 1 RB



Date: 11.JAN.2020 18:25:03

Lowest Band Edge / Full RB



Date: 11.JAN.2020 18:22:48

Highest Band Edge / Full RB

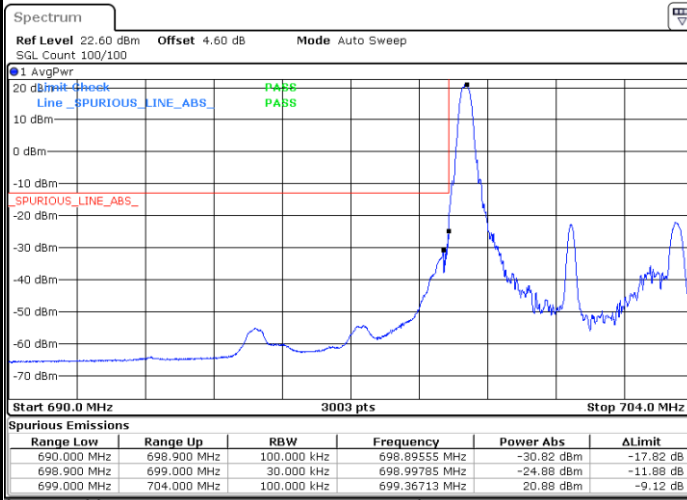


Date: 11.JAN.2020 18:23:56



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



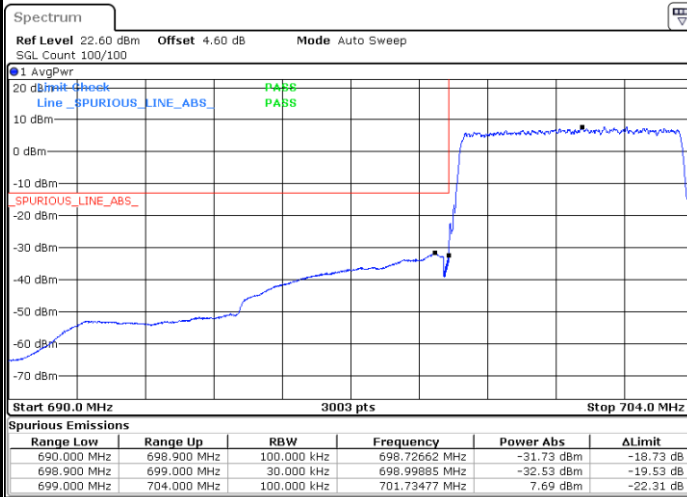
Date: 11. JAN 2020 17:45:25

Highest Band Edge / 1 RB



Date: 11. JAN 2020 17:51:03

Lowest Band Edge / Full RB



Date: 11. JAN 2020 17:46:33

Highest Band Edge / Full RB

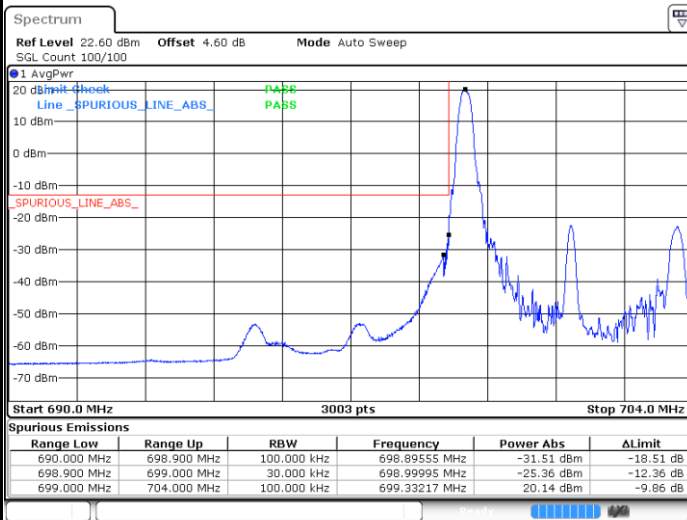


Date: 11. JAN 2020 17:49:55



LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



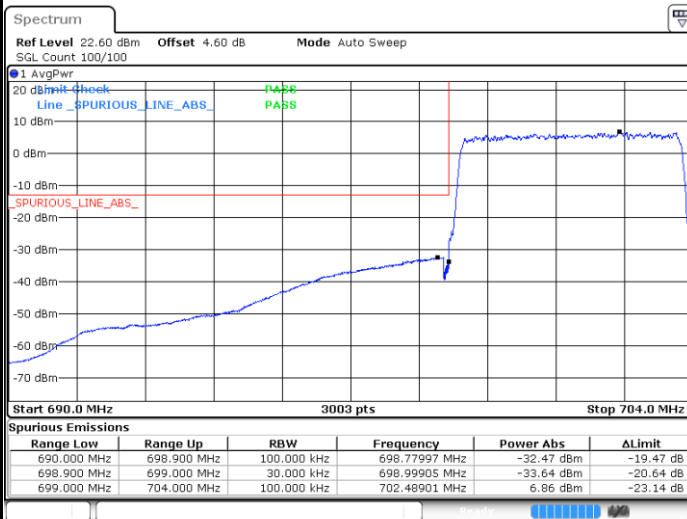
Date: 11. JAN 2020 17:44:18

Highest Band Edge / 1 RB



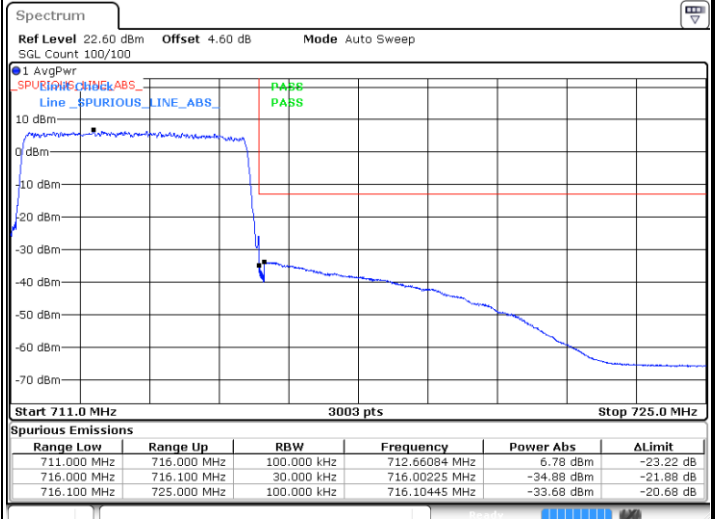
Date: 11. JAN 2020 17:52:10

Lowest Band Edge / Full RB



Date: 11. JAN 2020 17:47:40

Highest Band Edge / Full RB

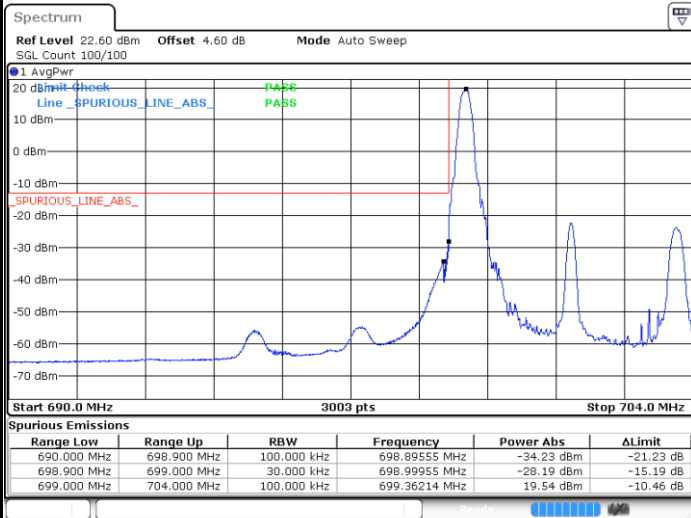


Date: 11. JAN 2020 17:48:48



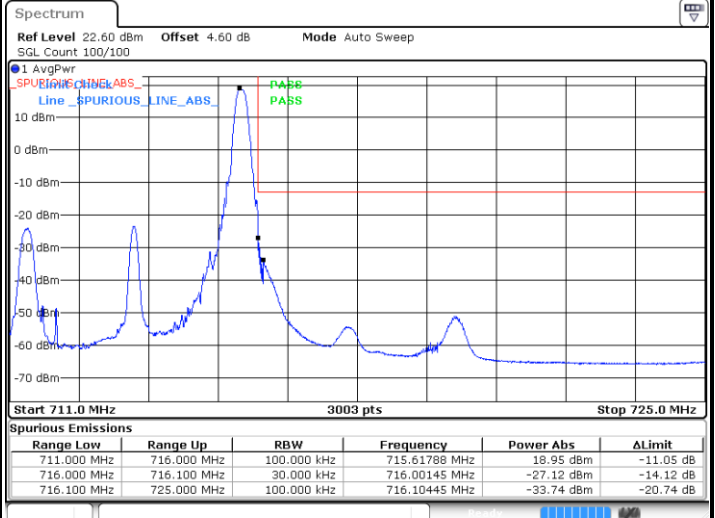
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



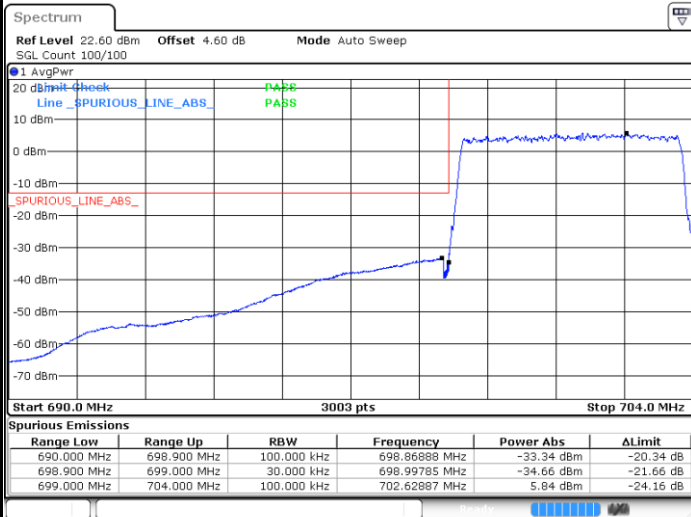
Date: 11. JAN 2020 18:29:26

Highest Band Edge / 1 RB



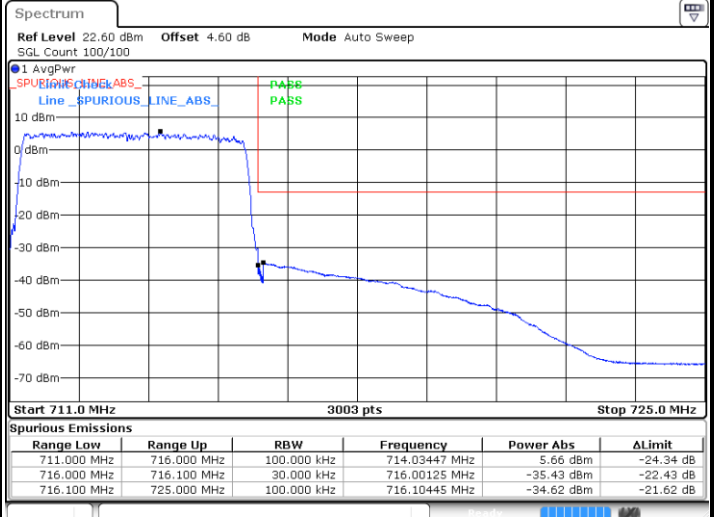
Date: 11. JAN 2020 18:28:18

Lowest Band Edge / Full RB



Date: 11. JAN 2020 18:30:33

Highest Band Edge / Full RB



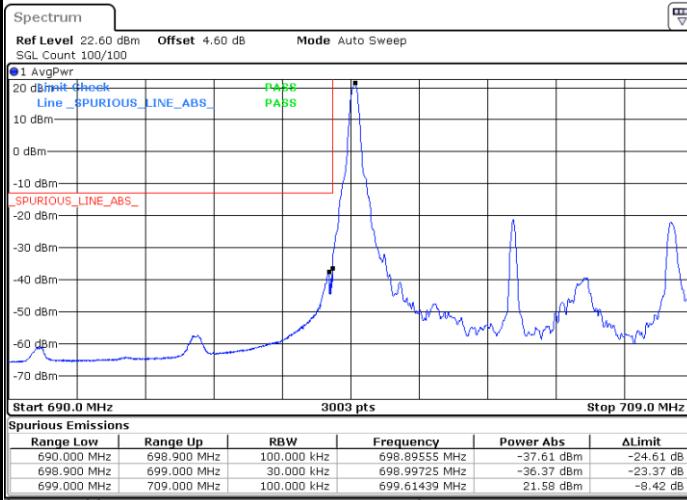
Date: 11. JAN 2020 18:27:11





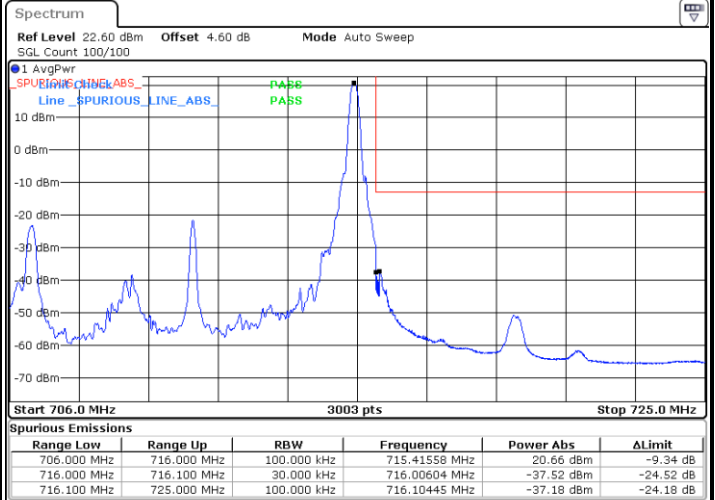
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



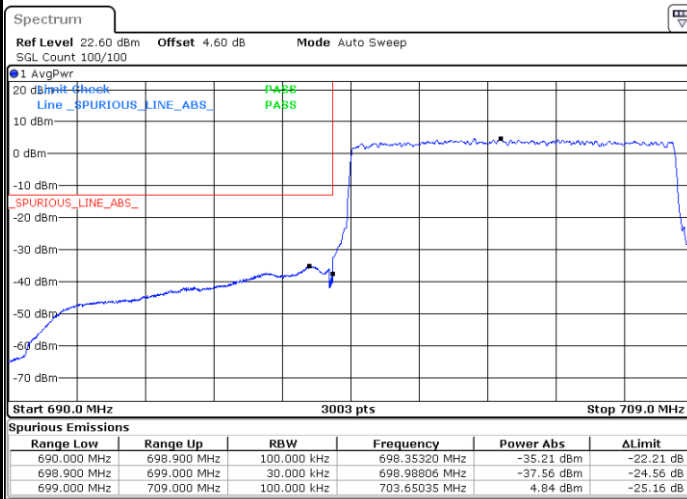
Date: 11. JAN 2020 18:01:52

Highest Band Edge / 1 RB



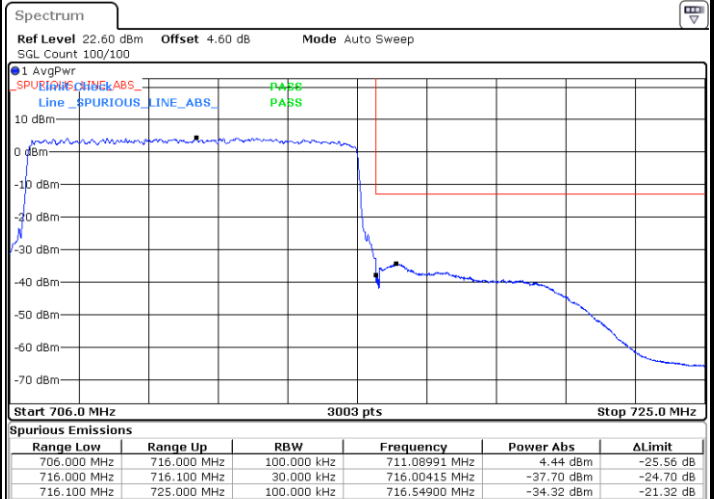
Date: 11. JAN 2020 18:07:29

Lowest Band Edge / Full RB



Date: 11. JAN 2020 18:02:59

Highest Band Edge / Full RB

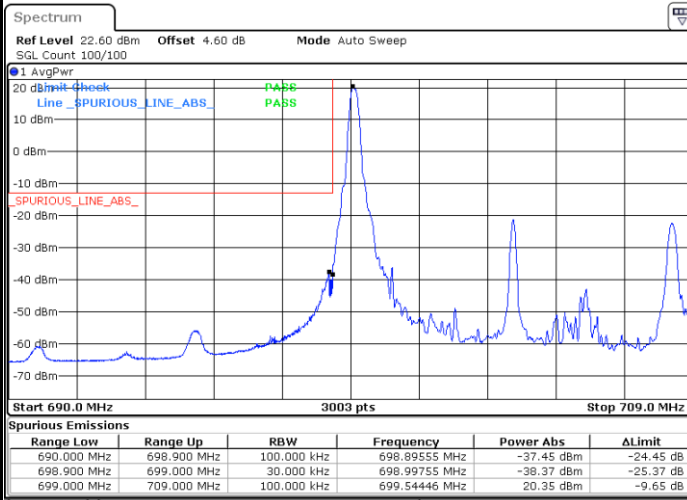


Date: 11. JAN 2020 18:06:22



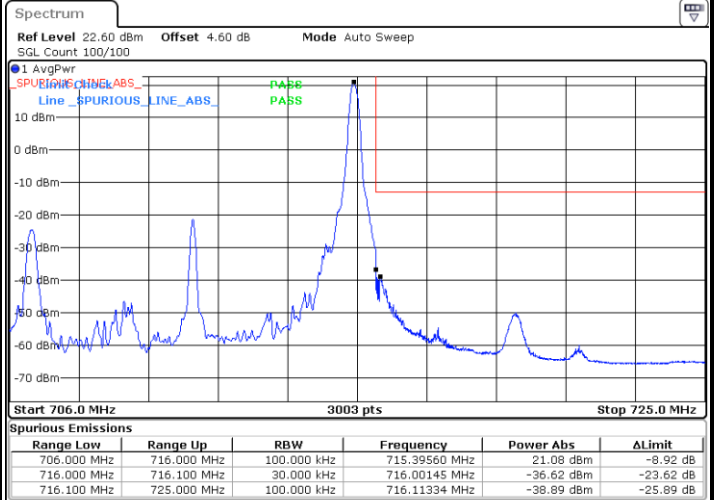
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



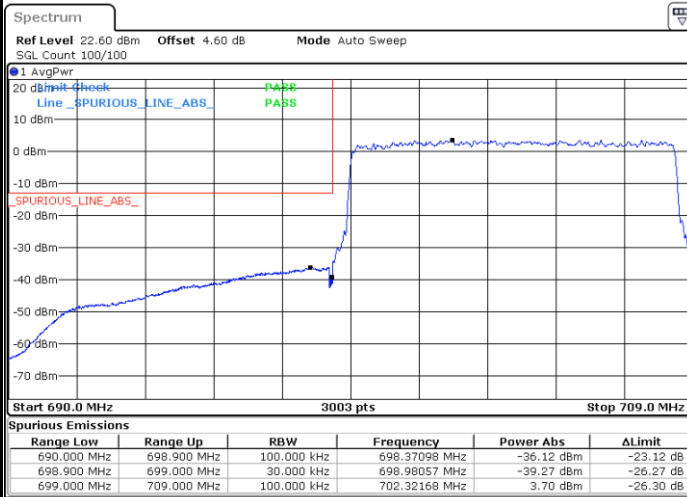
Date: 11. JAN 2020 18:00:44

Highest Band Edge / 1 RB



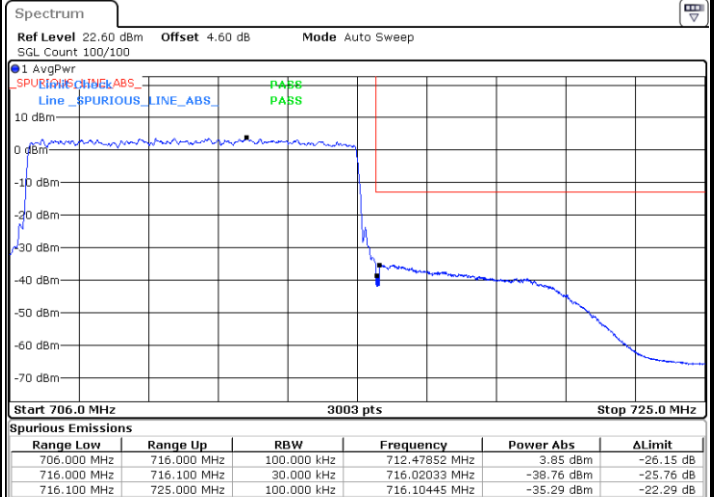
Date: 11. JAN 2020 18:08:37

Lowest Band Edge / Full RB



Date: 11. JAN 2020 18:04:07

Highest Band Edge / Full RB

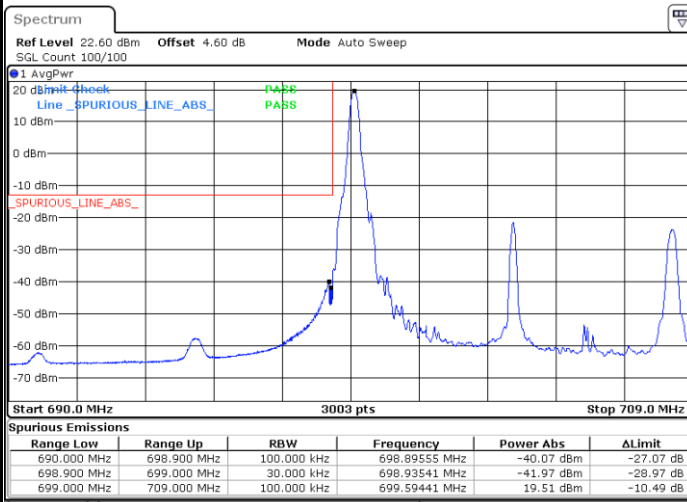


Date: 11. JAN 2020 18:05:14



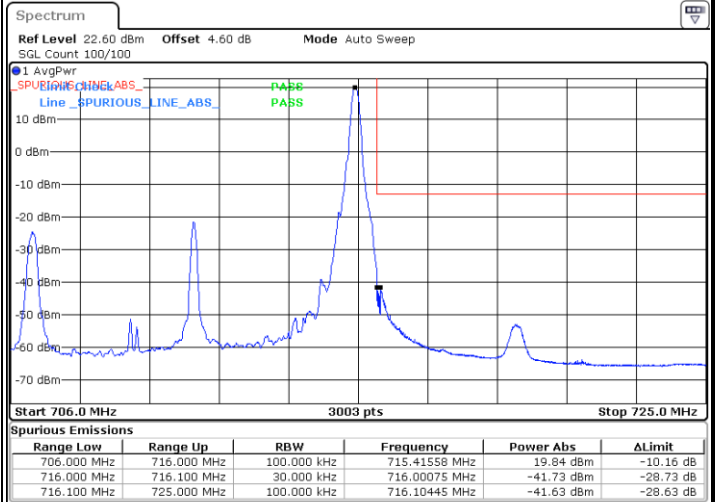
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



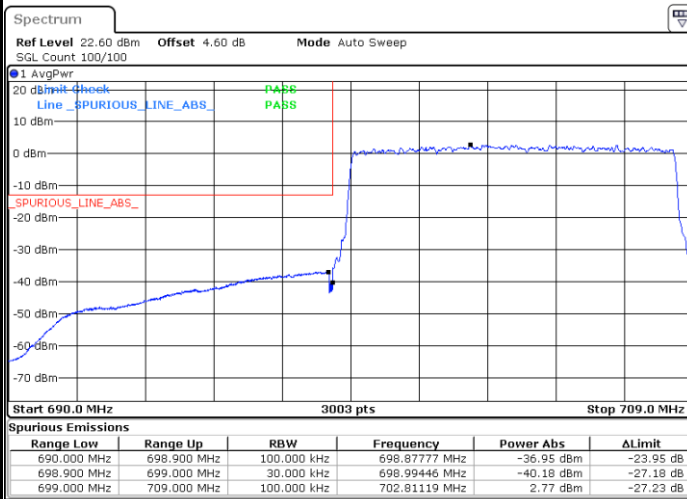
Date: 11. JAN 2020 18:40:22

Highest Band Edge / 1 RB



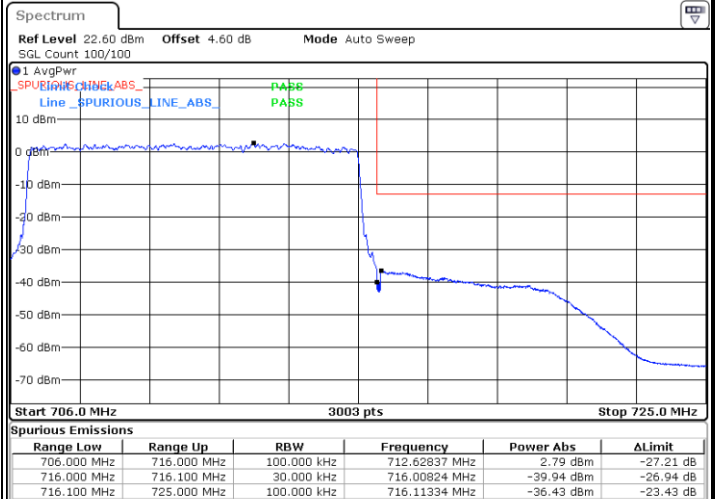
Date: 11. JAN 2020 18:39:15

Lowest Band Edge / Full RB



Date: 11. JAN 2020 18:41:30

Highest Band Edge / Full RB



Date: 11. JAN 2020 18:38:07