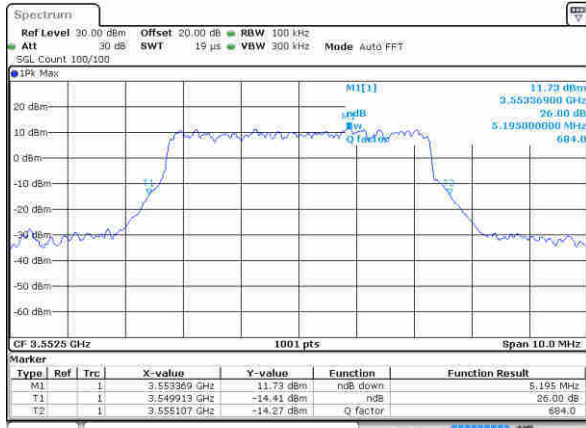


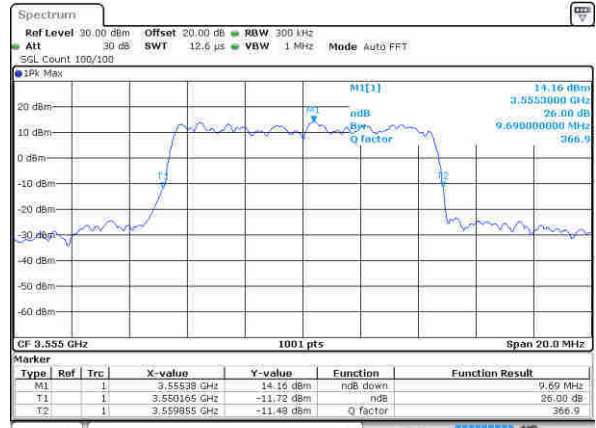


## LTE Band 48

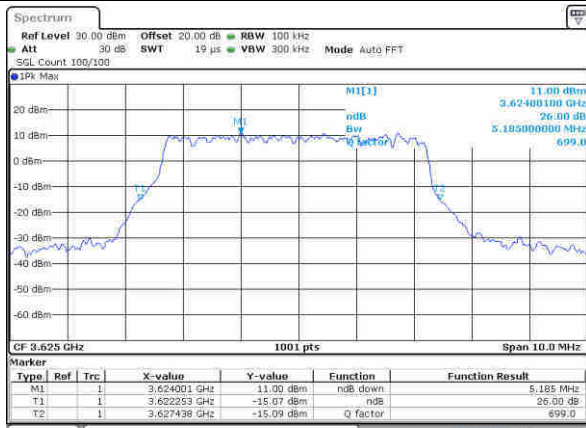
## Lowest Channel / 5MHz / 64QAM



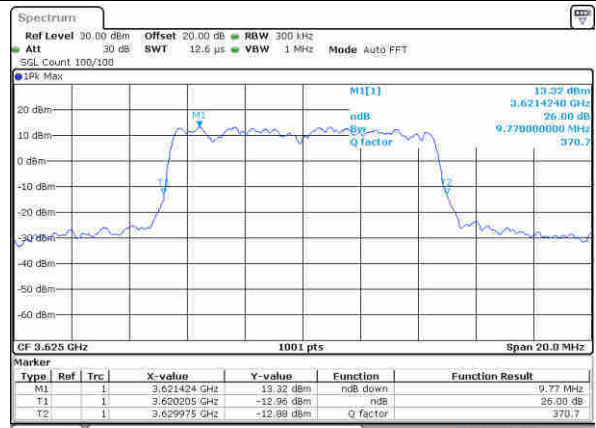
## Lowest Channel / 10MHz / 64QAM



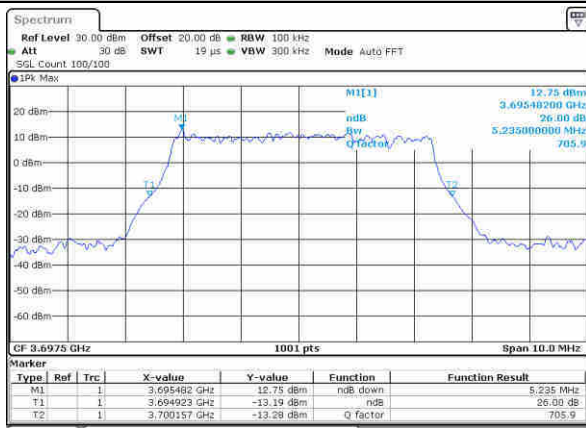
## Middle Channel / 5MHz / 64QAM



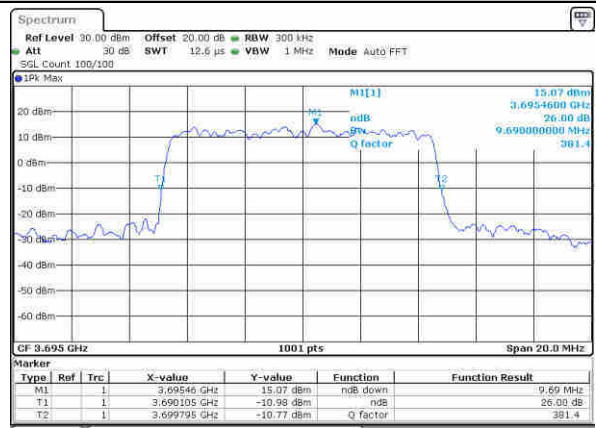
## Middle Channel / 10MHz / 64QAM



## Highest Channel / 5MHz / 64QAM



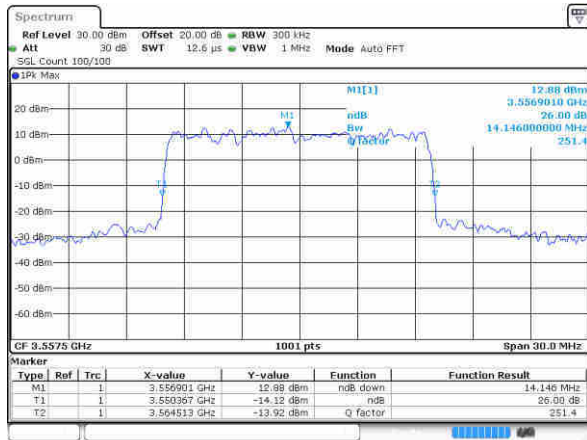
## Highest Channel / 10MHz / 64QAM





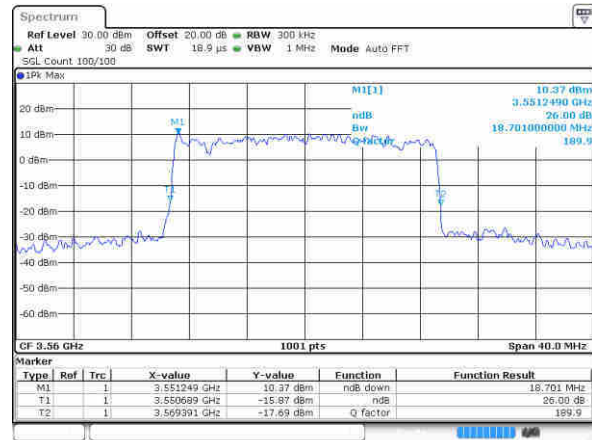
## LTE Band 48

## Lowest Channel / 15MHz / 64QAM



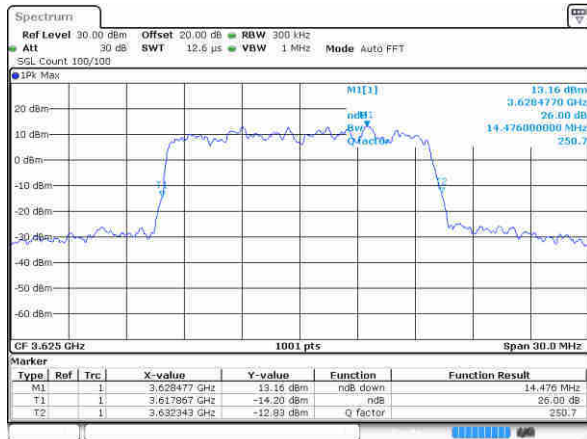
Date: 16.FEB.2020 03:57:37

## Lowest Channel / 20MHz / 64QAM



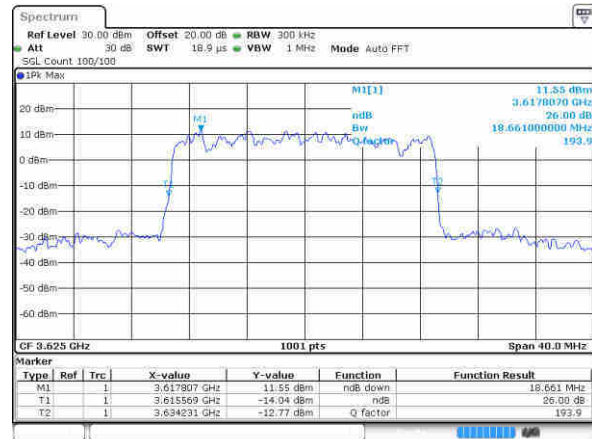
Date: 14.FEB.2020 05:44:07

## Middle Channel / 15MHz / 64QAM



Date: 16.FEB.2020 04:00:30

## Middle Channel / 20MHz / 64QAM



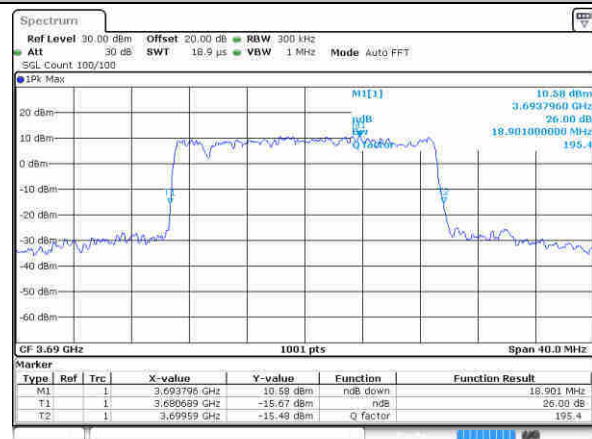
Date: 14.FEB.2020 04:42:38

## Highest Channel / 15MHz / 64QAM



Date: 16.FEB.2020 04:03:13

## Highest Channel / 20MHz / 64QAM



Date: 14.FEB.2020 03:04:56

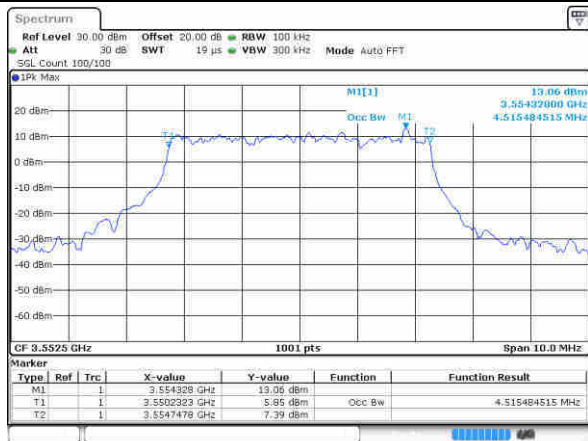
**Occupied Bandwidth**

| Mode       | LTE Band 48 : 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  | 4.55  | 8.99  | 9.01  | 13.43 | 13.52 | 17.86 | 17.94 |
| Middle CH  | -                         | -     | -     | -     | 4.51  | 4.53  | 9.03  | 9.07  | 13.43 | 13.46 | 17.90 | 17.82 |
| Highest CH | -                         | -     | -     | -     | 4.52  | 4.52  | 8.95  | 9.09  | 13.49 | 13.40 | 17.94 | 17.98 |
| Mode       | LTE Band 48 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                         | -     | -     | -     | 4.49  | -     | 9.07  | -     | 13.40 | -     | 17.94 | -     |
| Middle CH  | -                         | -     | -     | -     | 4.51  | -     | 9.13  | -     | 13.46 | -     | 17.86 | -     |
| Highest CH | -                         | -     | -     | -     | 4.52  | -     | 9.07  | -     | 13.40 | -     | 17.94 | -     |



## LTE Band 48

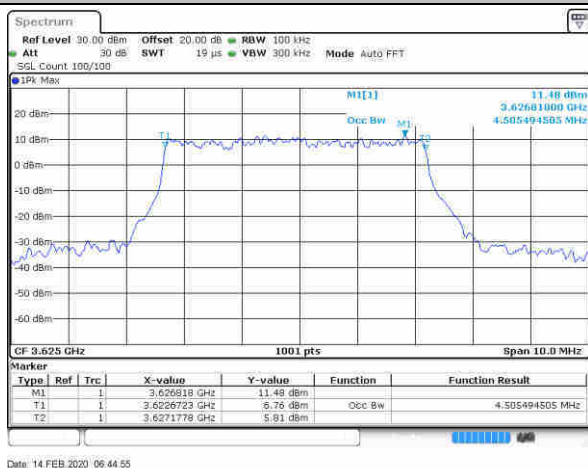
## Lowest Channel / 5MHz / QPSK



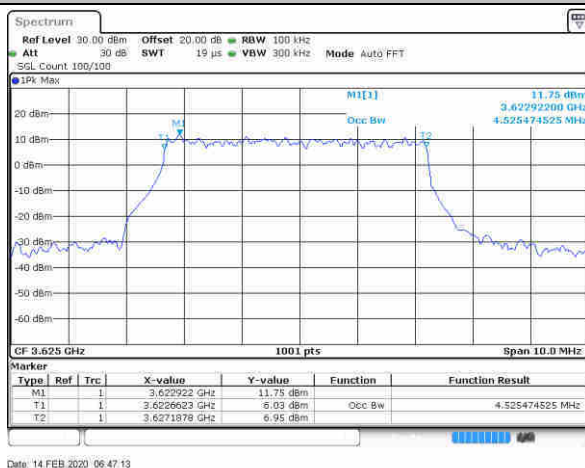
## Lowest Channel / 5MHz / 16QAM



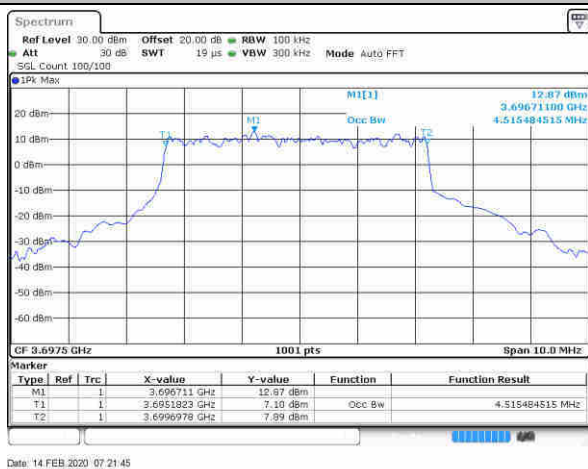
## Middle Channel / 5MHz / QPSK



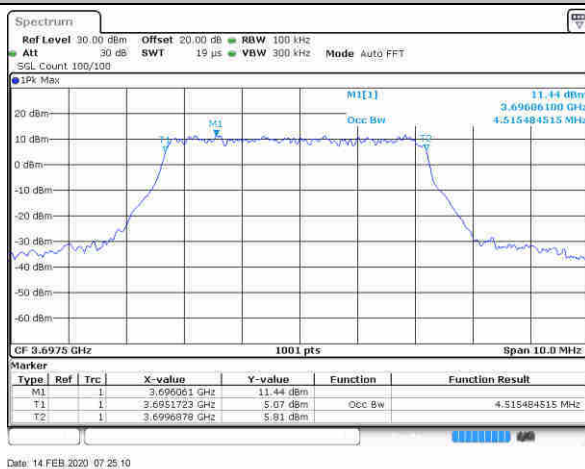
## Middle Channel / 5MHz / 16QAM



## Highest Channel / 5MHz / QPSK



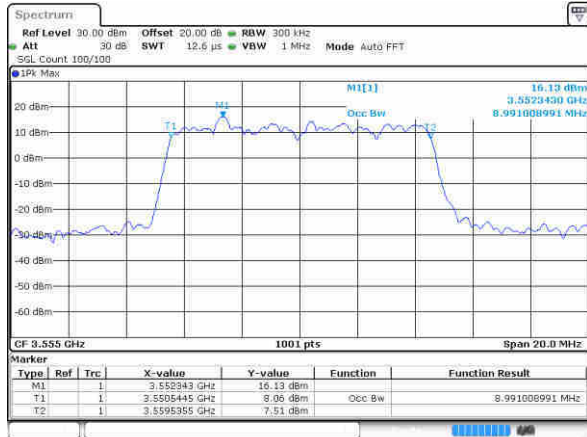
## Highest Channel / 5MHz / 16QAM



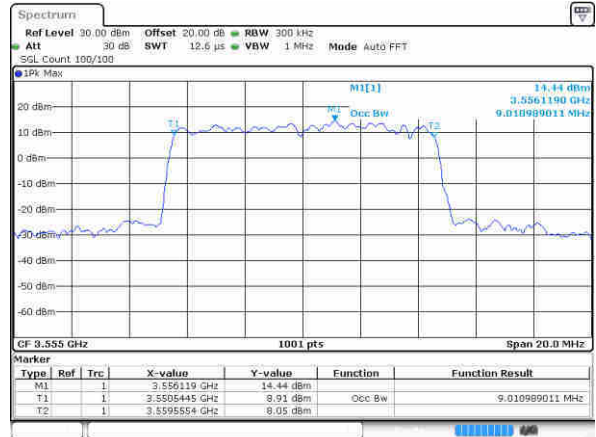


## LTE Band 48

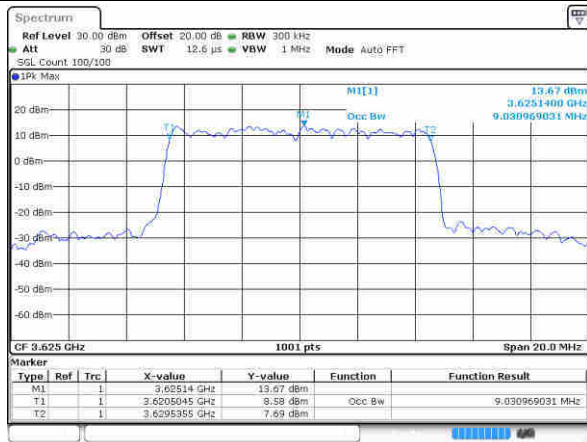
## Lowest Channel / 10MHz / QPSK



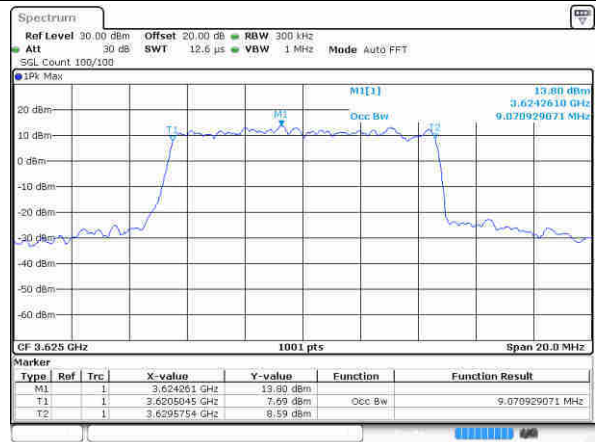
## Lowest Channel / 10MHz / 16QAM



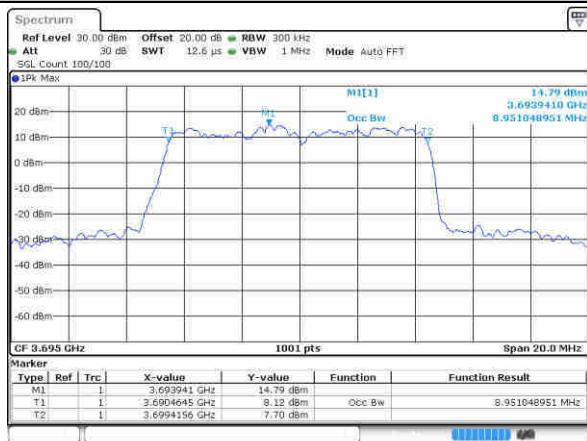
## Middle Channel / 10MHz / QPSK



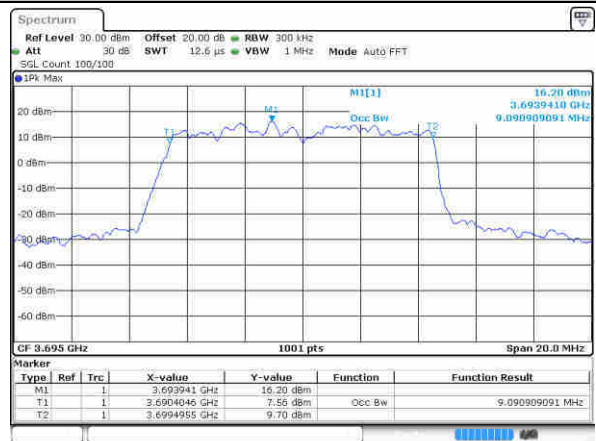
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



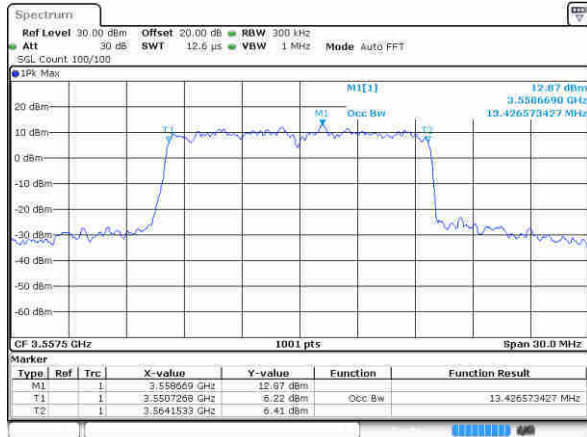
## Highest Channel / 10MHz / 16QAM



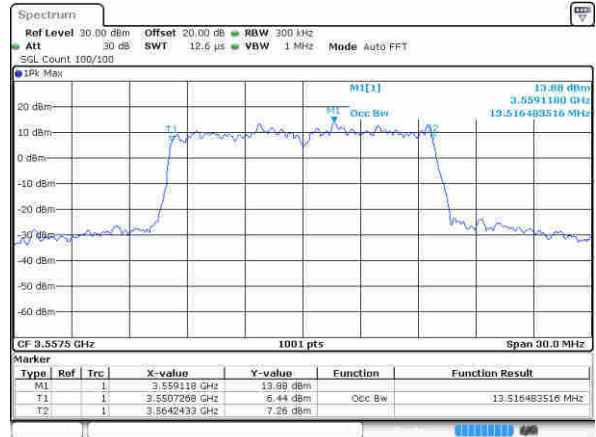


## LTE Band 48

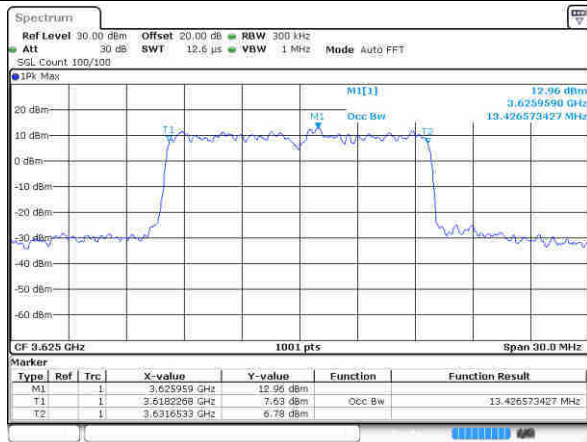
## Lowest Channel / 15MHz / QPSK



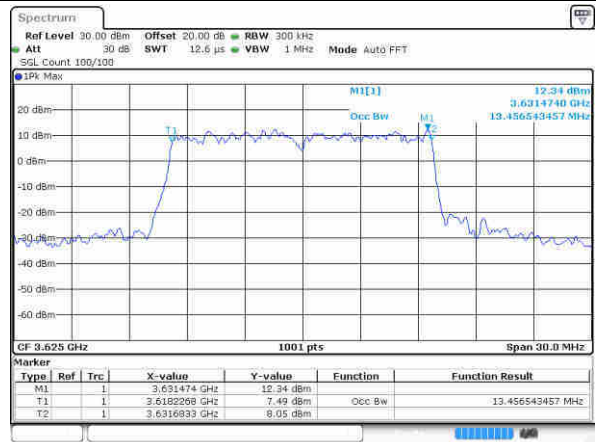
## Lowest Channel / 15MHz / 16QAM



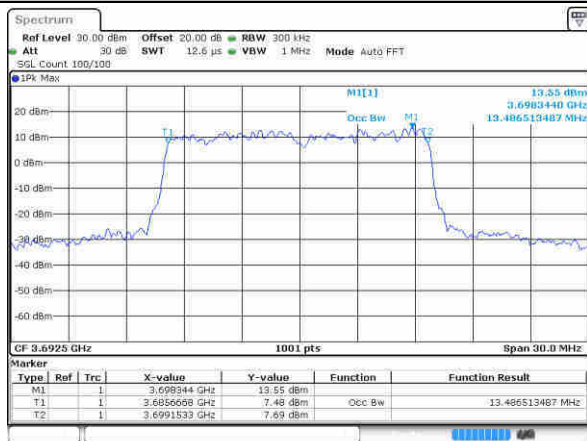
## Middle Channel / 15MHz / QPSK



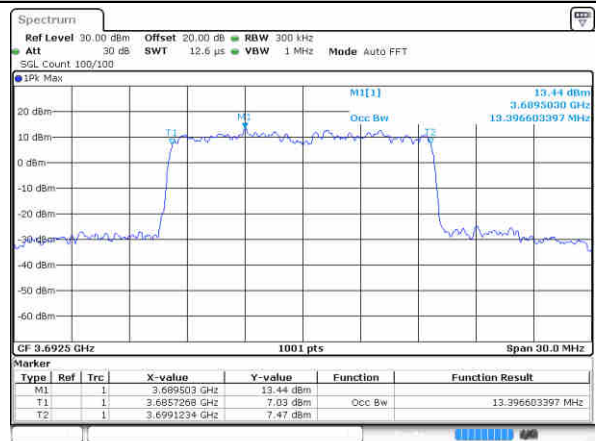
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



## Highest Channel / 15MHz / 16QAM

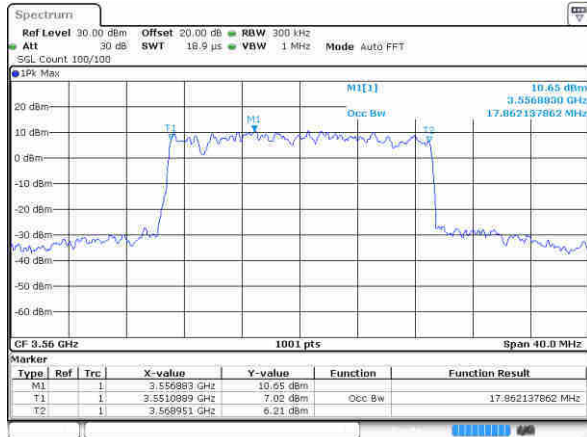




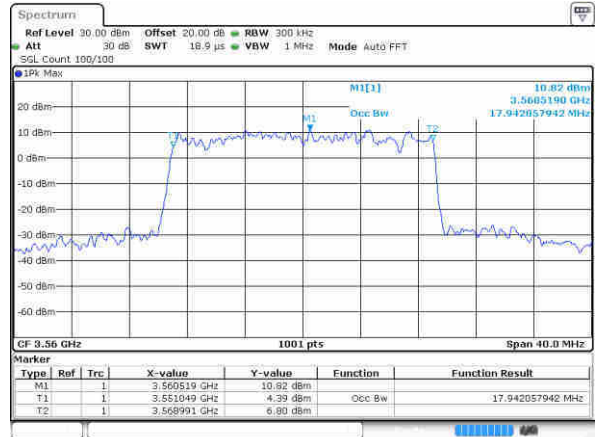


## LTE Band 48

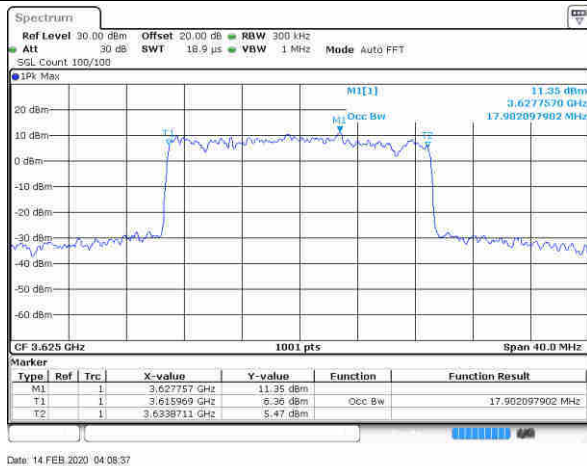
## Lowest Channel / 20MHz / QPSK



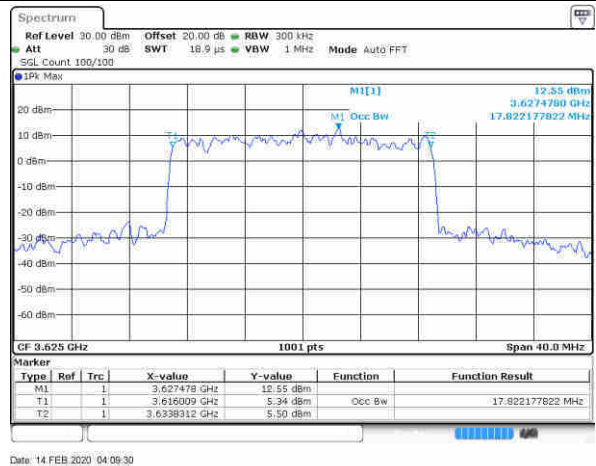
## Lowest Channel / 20MHz / 16QAM



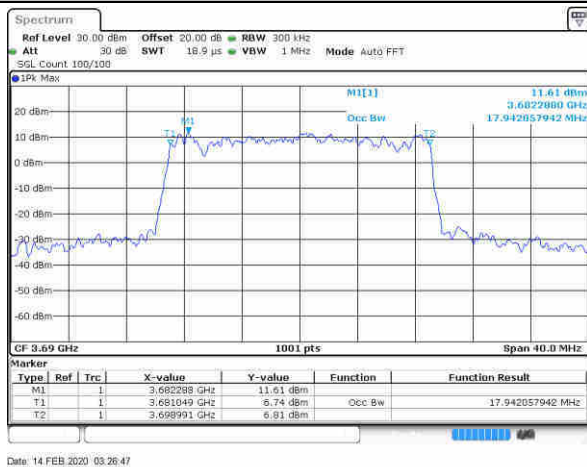
## Middle Channel / 20MHz / QPSK



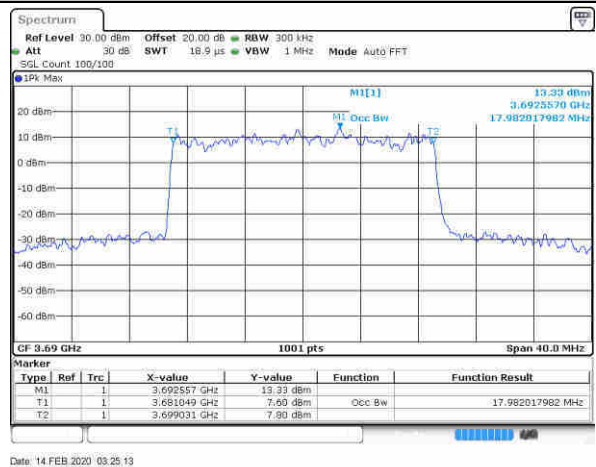
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



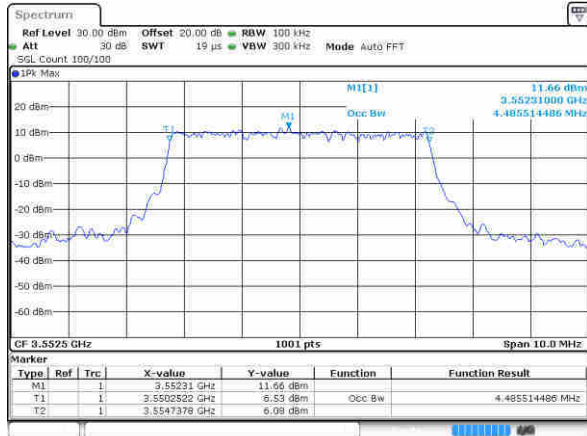
## Highest Channel / 20MHz / 16QAM



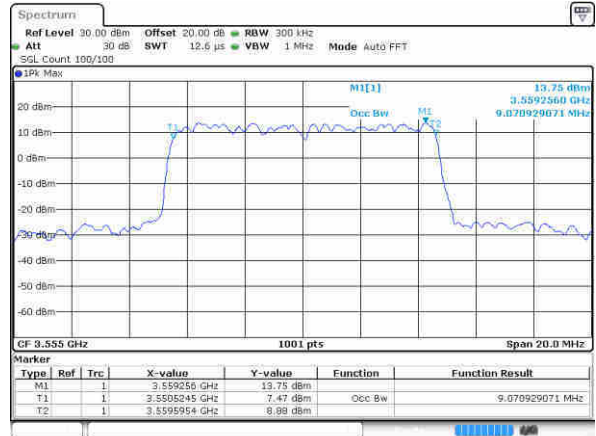


## LTE Band 48

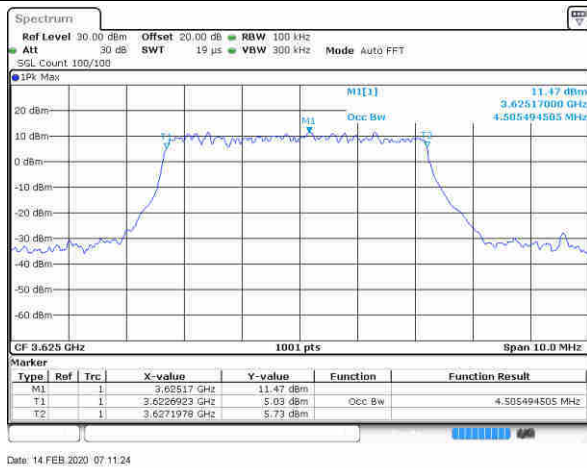
## Lowest Channel / 5MHz / 64QAM



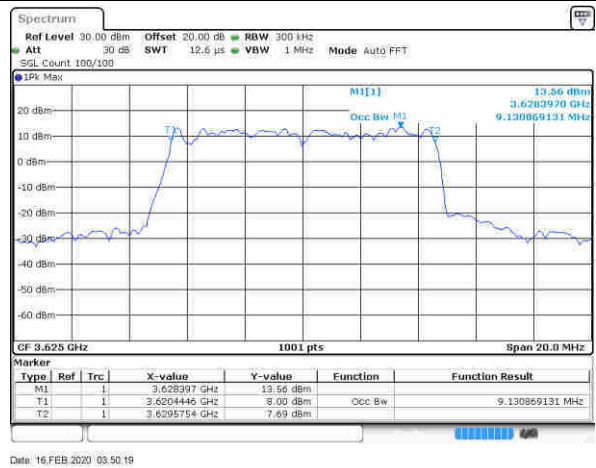
## Lowest Channel / 10MHz / 64QAM



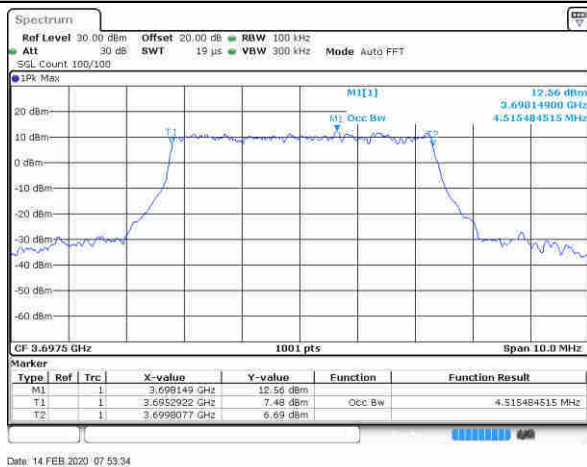
## Middle Channel / 5MHz / 64QAM



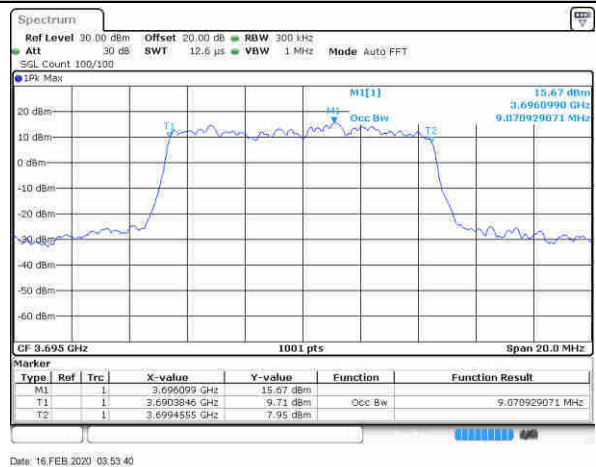
## Middle Channel / 10MHz / 64QAM



## Highest Channel / 5MHz / 64QAM



## Highest Channel / 10MHz / 64QAM

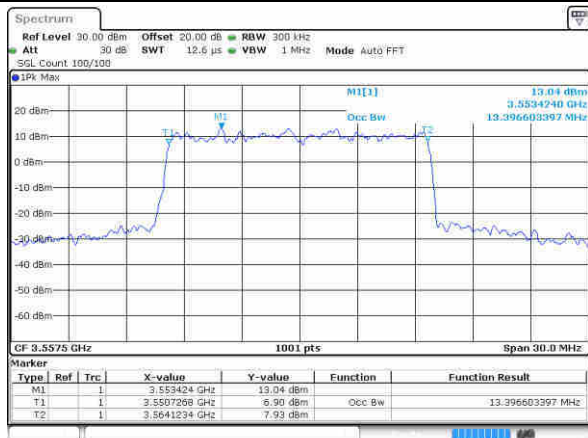






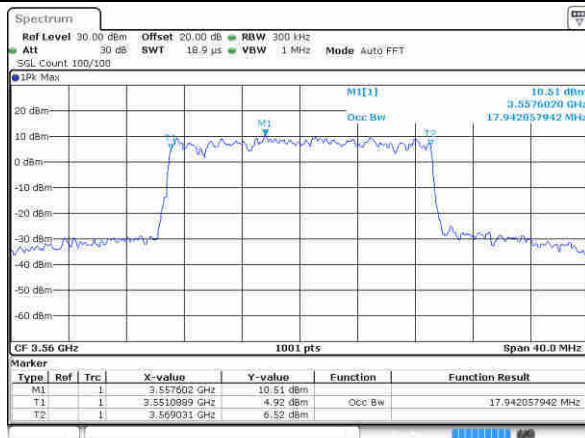
## LTE Band 48

## Lowest Channel / 15MHz / 64QAM



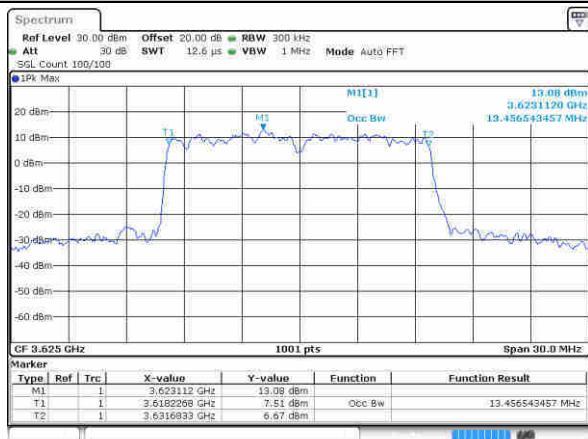
Date: 16 FEB 2020 03:57:31

## Lowest Channel / 20MHz / 64QAM



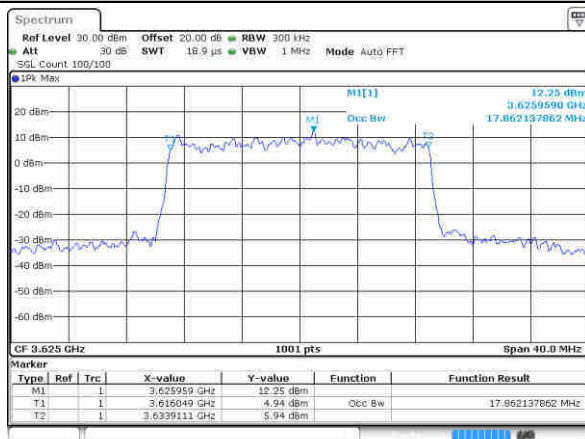
Date: 14 FEB 2020 05:43:58

## Middle Channel / 15MHz / 64QAM



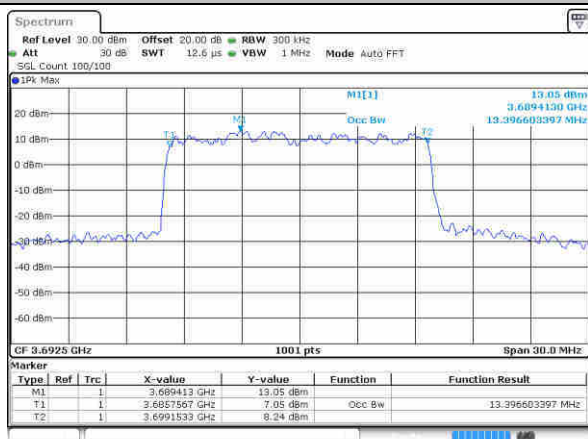
Date: 16 FEB 2020 04:00:24

## Middle Channel / 20MHz / 64QAM



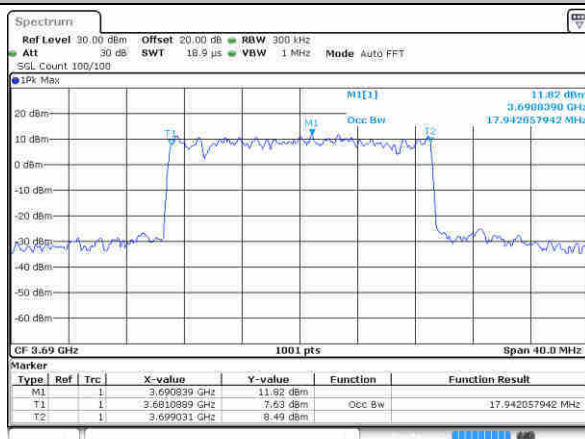
Date: 14 FEB 2020 04:42:30

## Highest Channel / 15MHz / 64QAM

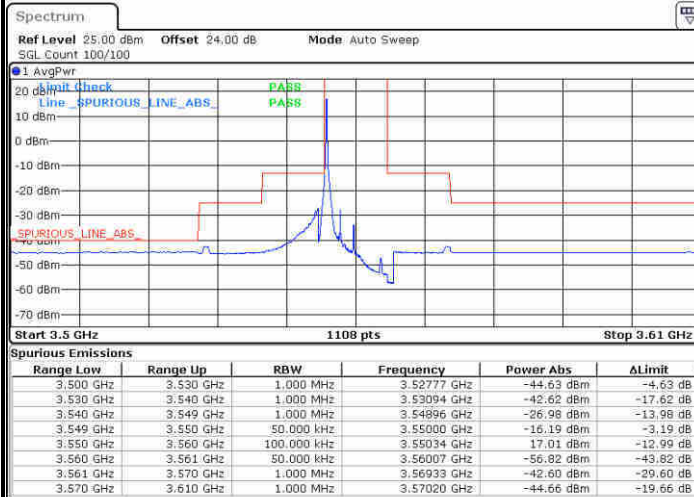


Date: 16 FEB 2020 04:03:07

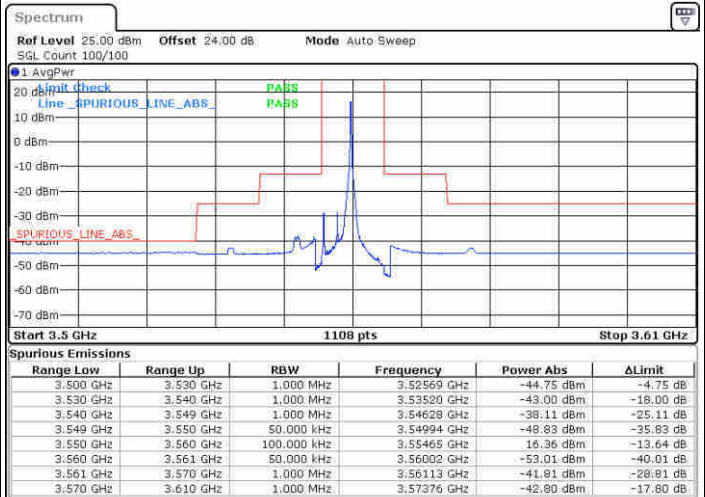
## Highest Channel / 20MHz / 64QAM



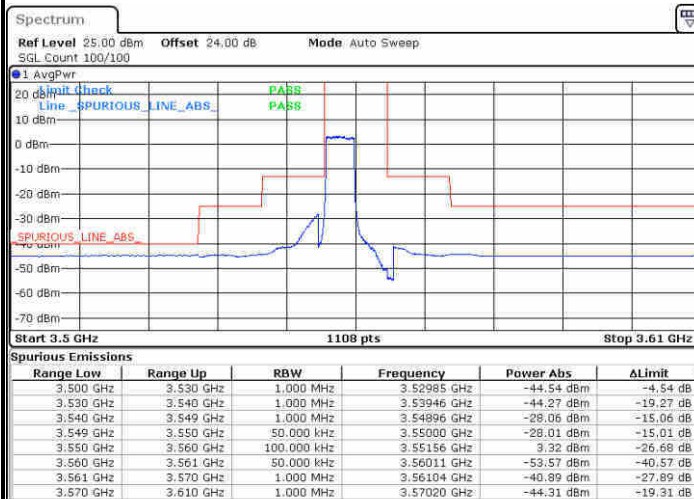
Date: 14 FEB 2020 03:04:25

**Conducted Band Edge****LTE Band 48 / 5MHz****QPSK****Lowest Channel / 1RB0**

Date: 14 FEB 2020 05:49:02

**Lowest Channel / 1RBmax**

Date: 14 FEB 2020 05:56:35

**Lowest Channel / FullRB**

Date: 14 FEB 2020 05:58:46

**N/A**

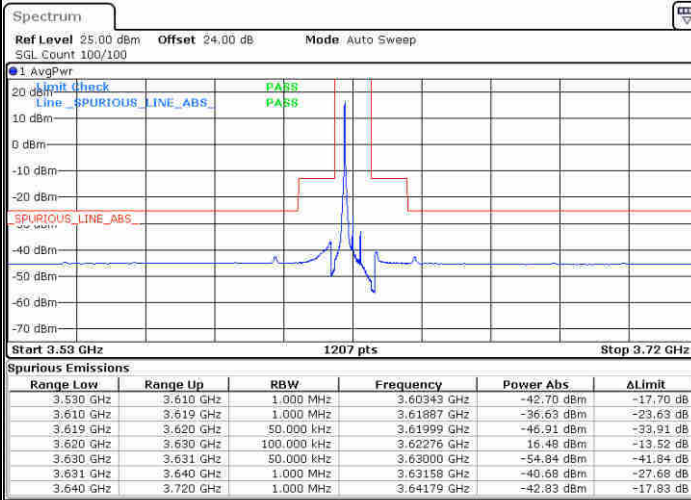


## LTE Band 48 / 5MHz

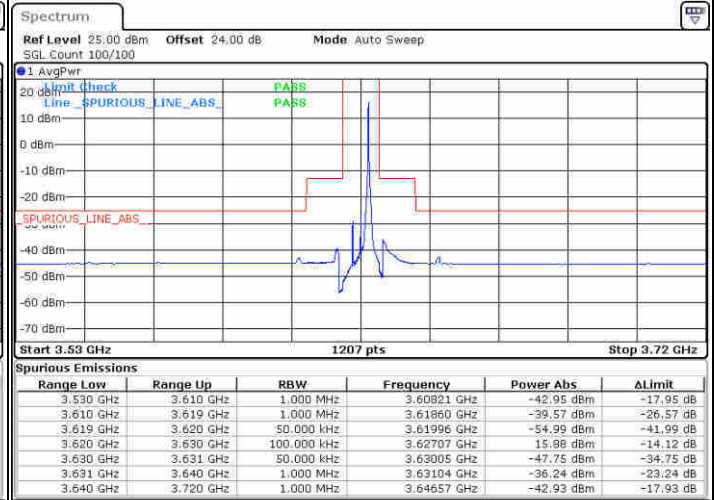
## QPSK

## Middle Channel / 1RB0

## Middle Channel / 1RBmax



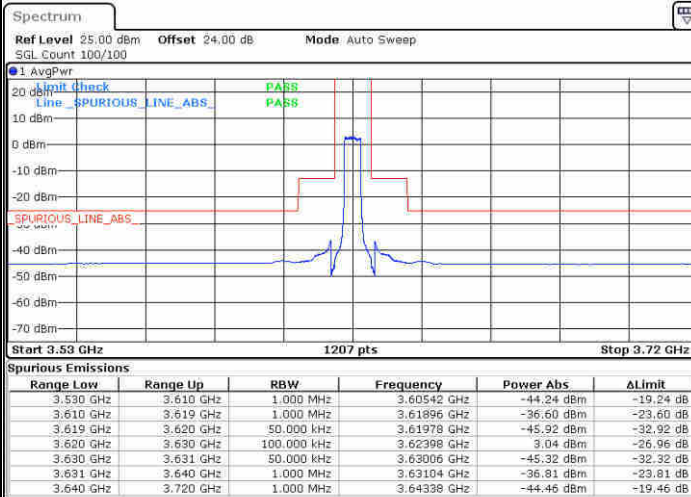
Date: 14.FEB.2020 06:35:54



Date: 14.FEB.2020 06:38:50

## Middle Channel / FullIRB

## N/A



Date: 14.FEB.2020 06:41:00

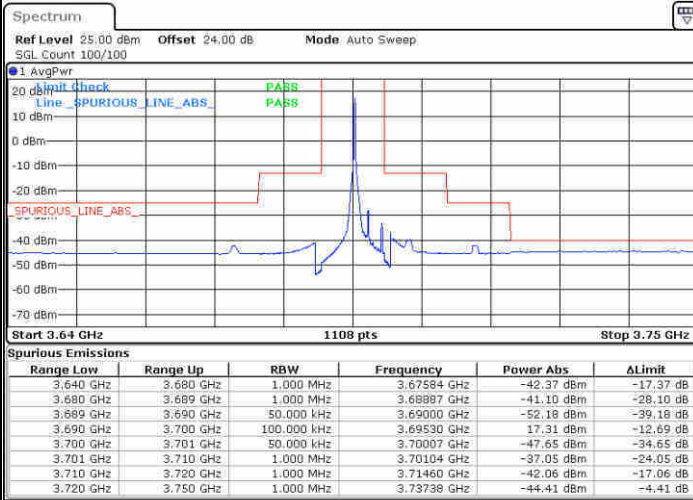


## LTE Band 48 / 5MHz

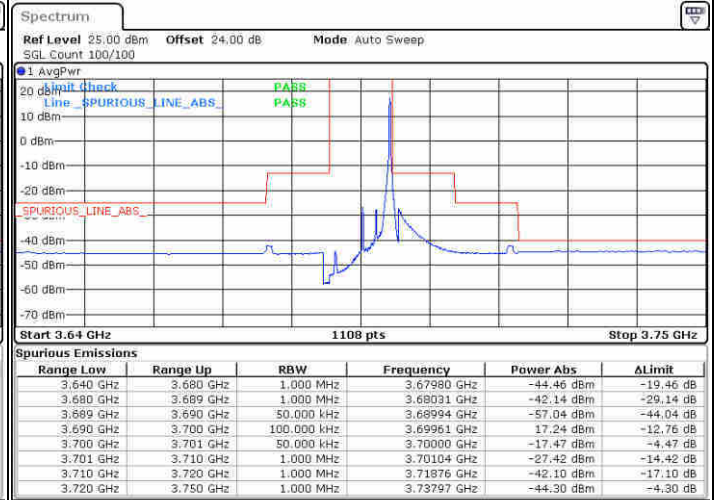
## QPSK

## Highest Channel / 1RB0

## Highest Channel / 1RBmax



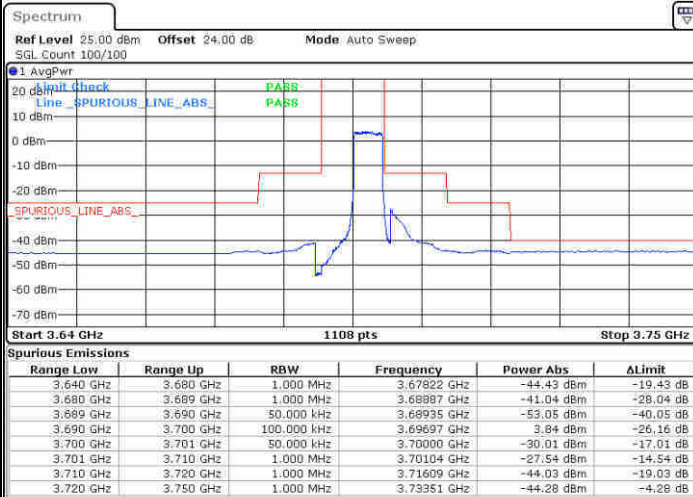
Date: 14.FEB.2020 07:14:28



Date: 14.FEB.2020 07:16:47

## Highest Channel / FullIRB

## N/A



Date: 14.FEB.2020 07:19:45

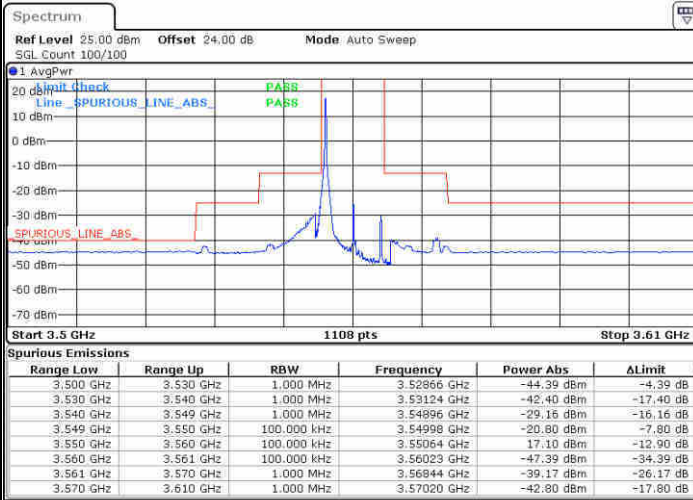


## LTE Band 48 / 10MHz

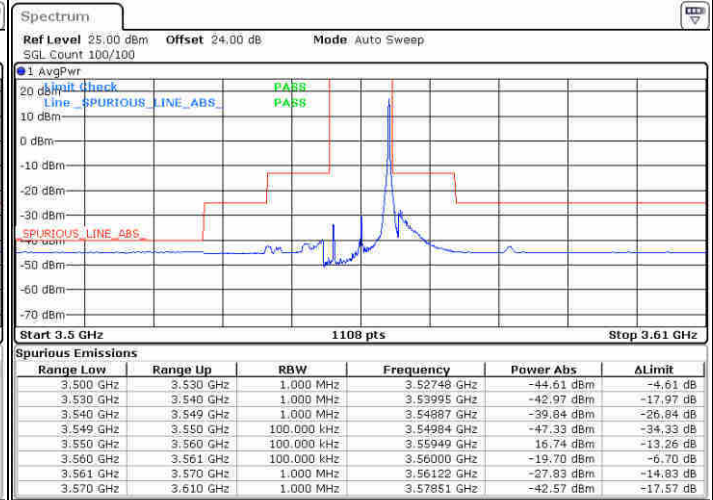
## QPSK

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



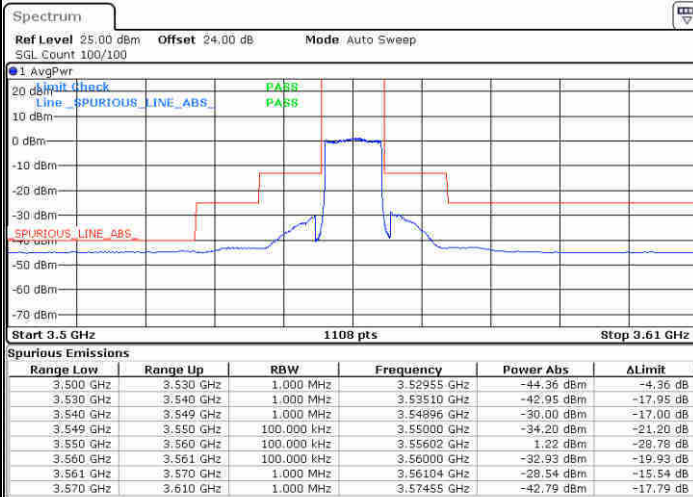
Date: 15 FEB 2020 07:10:17



Date: 15 FEB 2020 07:10:58

## Lowest Channel / FullIRB

## N/A



Date: 15 FEB 2020 07:11:59

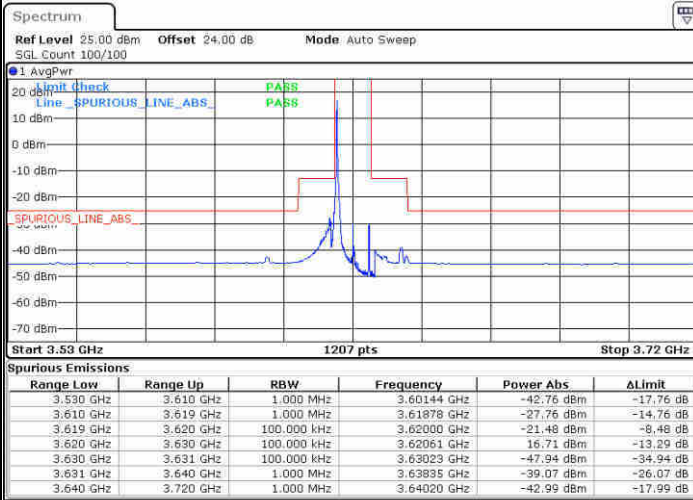


## LTE Band 48 / 10MHz

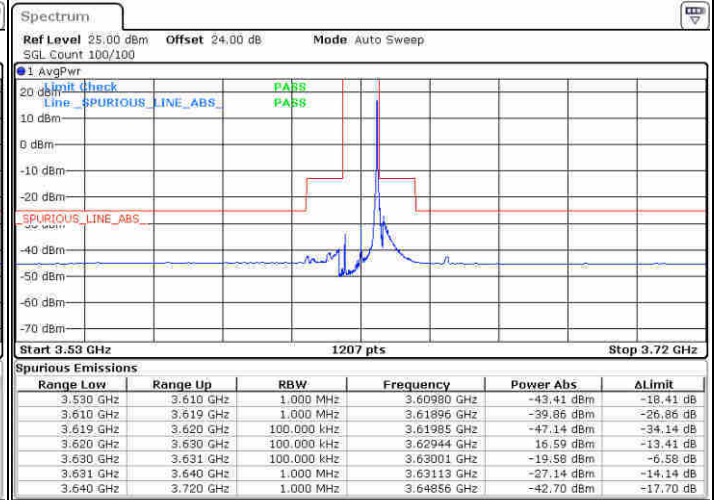
## QPSK

## MiddleChannel / 1RB0

## Middle Channel / 1RBmax



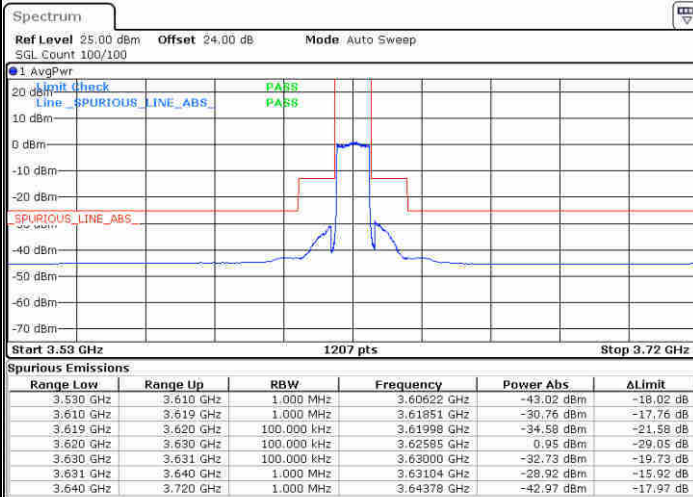
Date: 15 FEB 2020 07:19:09



Date: 15 FEB 2020 07:19:55

## Middle Channel / FullRB

## N/A



Date: 15 FEB 2020 07:20:53

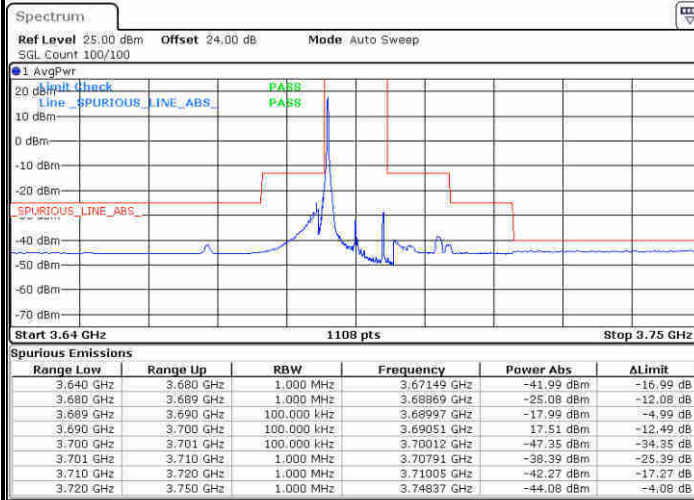




## LTE Band 48 / 10MHz

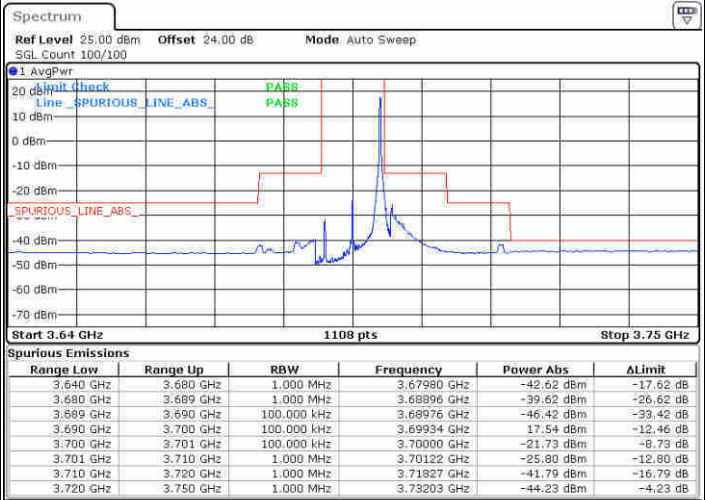
## QPSK

## Highest Channel / 1RB0



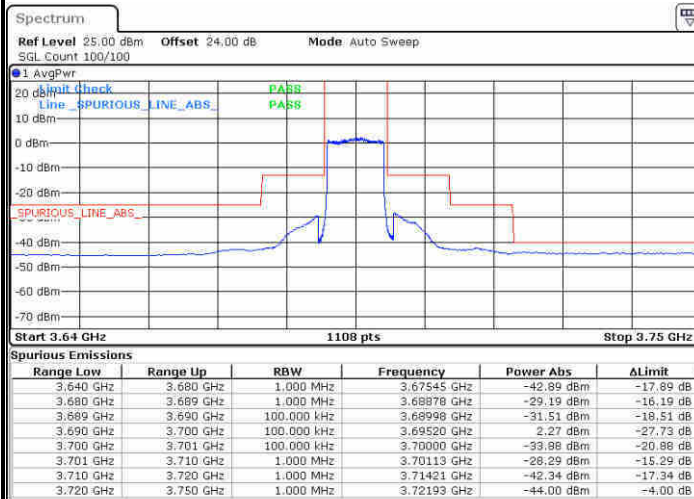
Date: 15 FEB 2020 07:31:49

## Highest Channel / 1RBmax



Date: 15 FEB 2020 07:32:33

## Highest Channel / FullIRB



Date: 15 FEB 2020 07:38:01

N/A

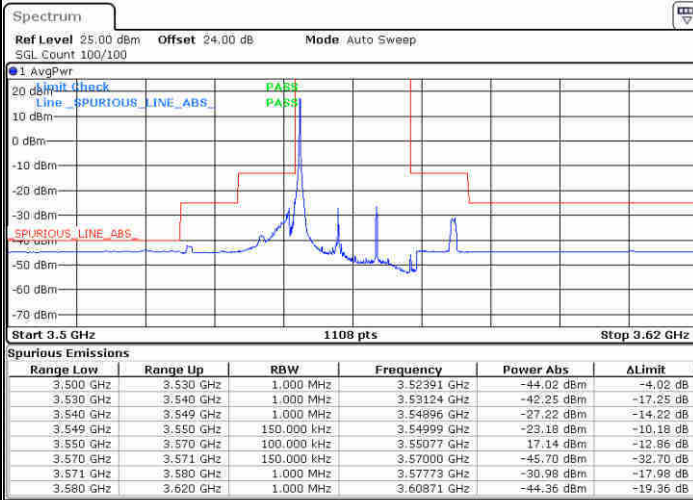


## LTE Band 48 / 15MHz

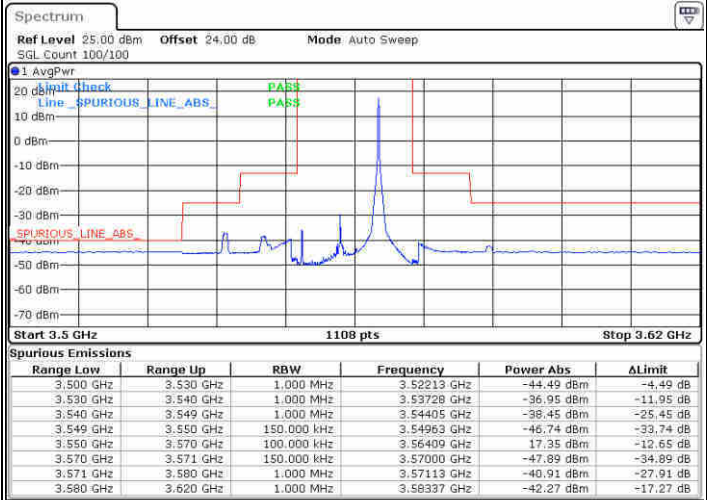
## QPSK

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



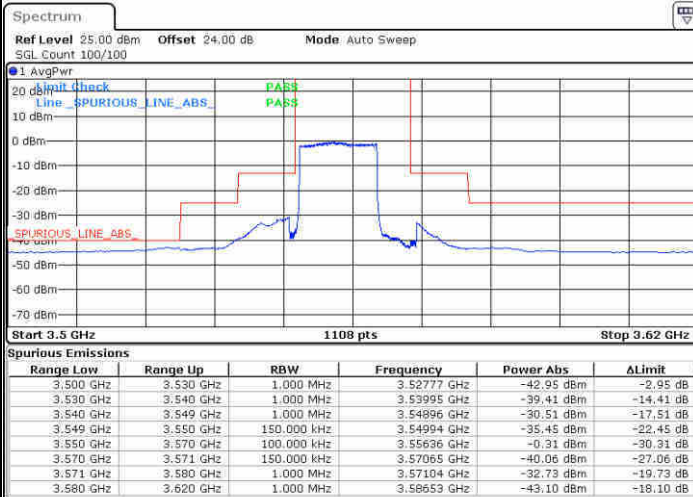
Date: 15 FEB 2020 06:07:16



Date: 15 FEB 2020 06:21:47

## Lowest Channel / FullRB

## N/A



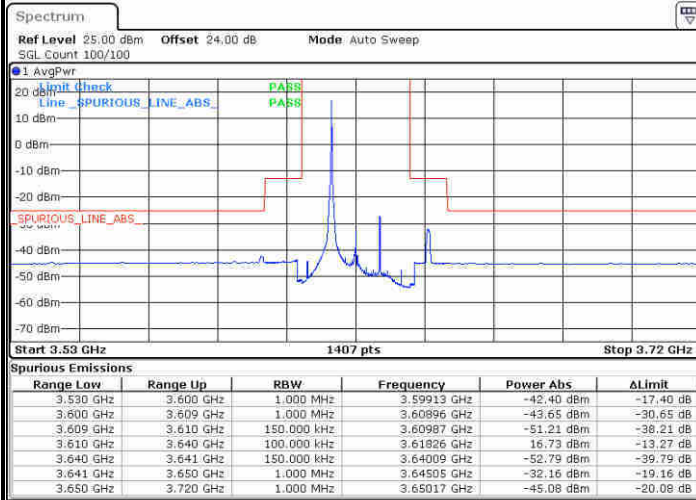
Date: 15 FEB 2020 06:23:15



## LTE Band 48 / 15MHz

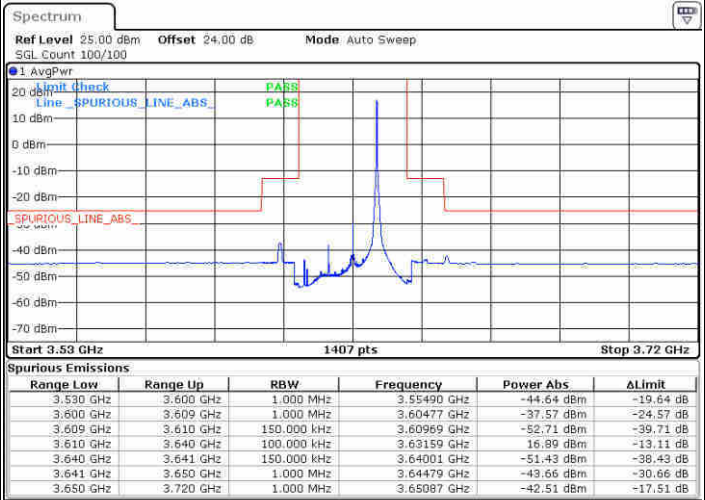
## QPSK

## Middle Channel / 1RB0



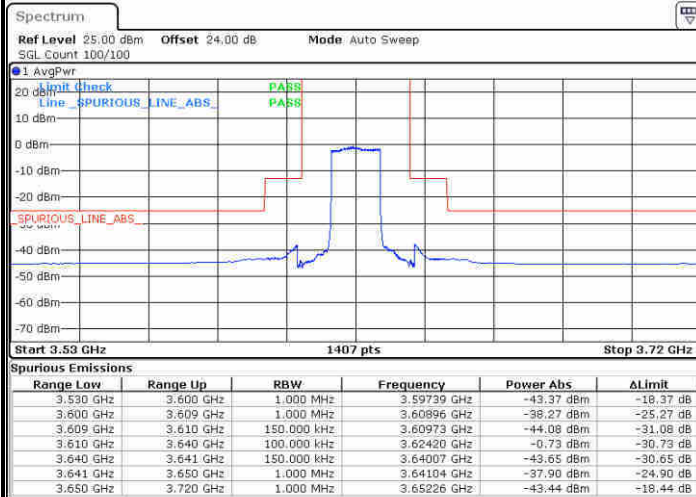
Date: 15 FEB 2020 06:37:30

## Middle Channel / 1RBmax



Date: 15 FEB 2020 06:38:56

## Middle Channel / FullRB



Date: 15 FEB 2020 06:41:07

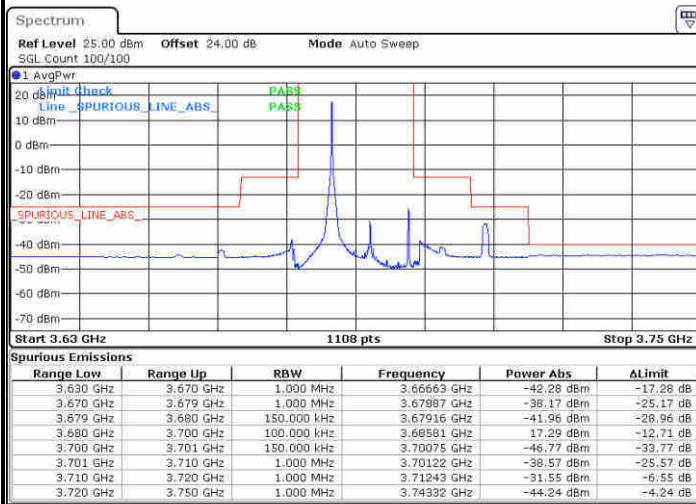
N/A



## LTE Band 48 / 15MHz

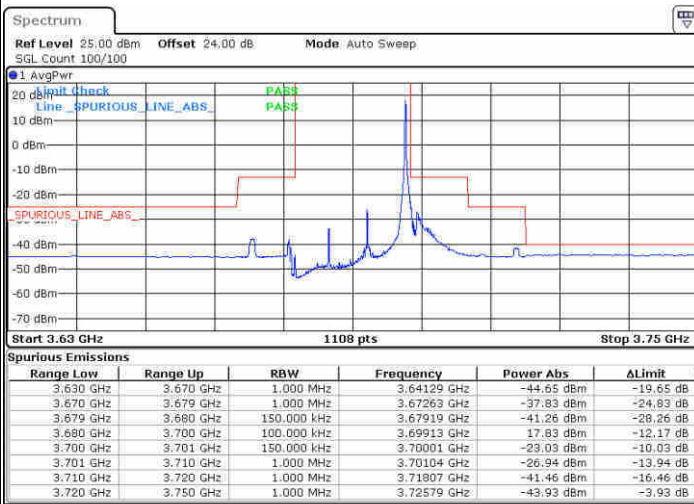
## QPSK

## Highest Channel / 1RB0



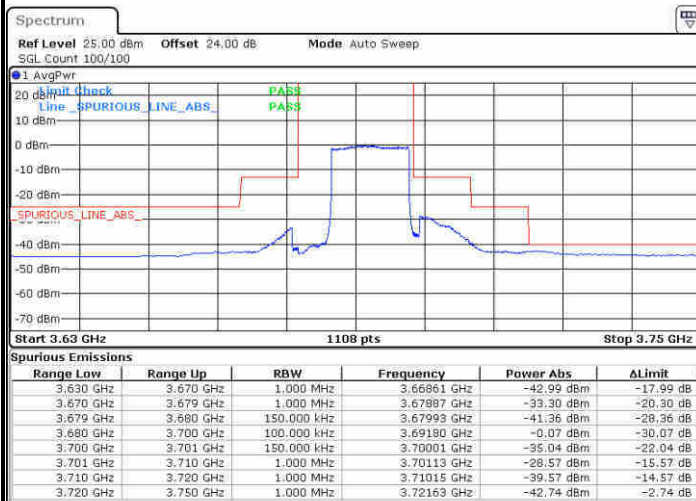
Date: 15 FEB 2020 06:55:13

## Highest Channel / 1RBmax



Date: 15 FEB 2020 06:56:43

## Highest Channel / FullIRB



Date: 15 FEB 2020 06:58:04

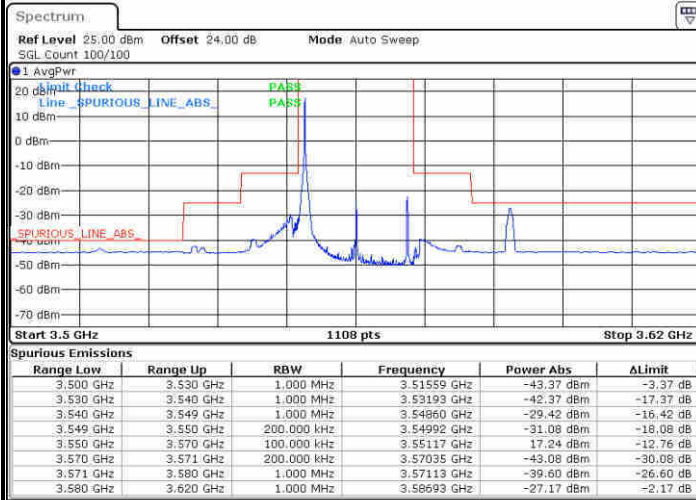
N/A



## LTE Band 48 / 20MHz

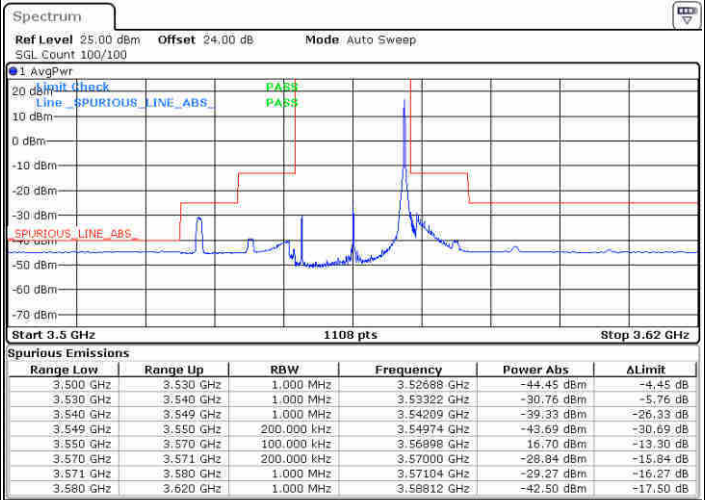
## QPSK

## Lowest Channel / 1RB0



Date: 14.FEB 2020 05:06:31

## Lowest Channel / 1RBmax



Date: 14.FEB 2020 05:09:57

## Lowest Channel / FullRB



Date: 14.FEB 2020 05:13:58

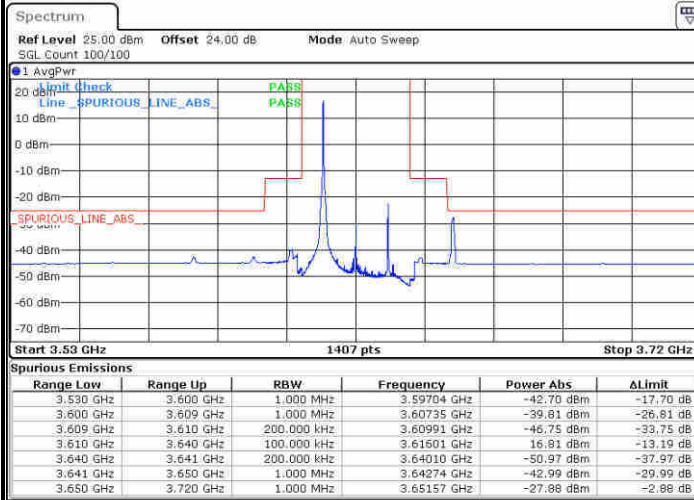
## N/A



## LTE Band 48 / 20MHz

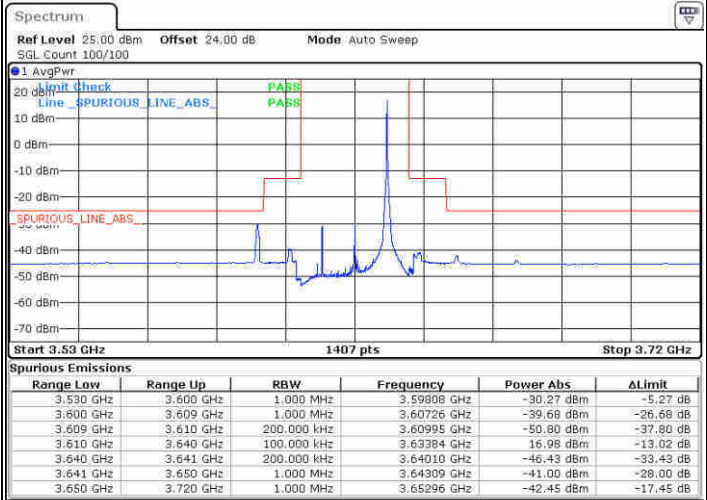
## QPSK

## Middle Channel / 1RB0



Date: 14.FEB.2020 03:54:07

## Middle Channel / 1RBmax



Date: 14.FEB.2020 03:59:19

## Middle Channel / FullIRB



Date: 14.FEB.2020 04:04:40

N/A



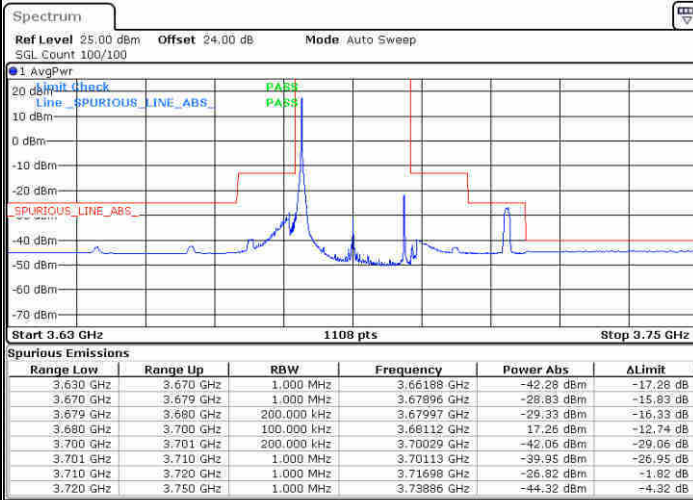


## LTE Band 48 / 20MHz

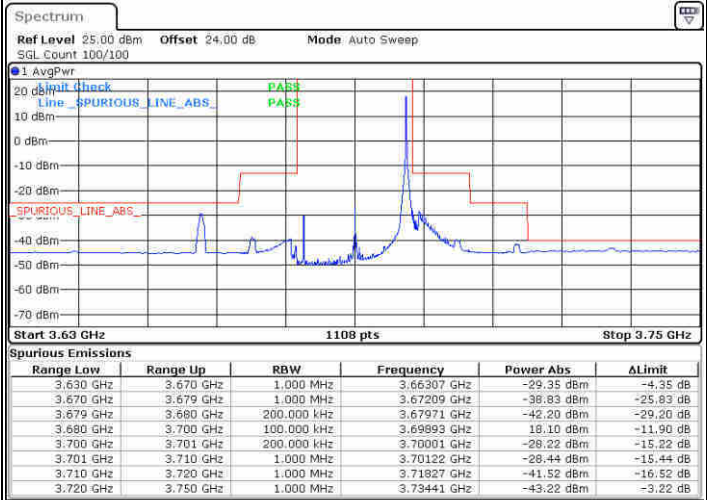
## QPSK

## Highest Channel / 1RB0

## Highest Channel / 1RBmax



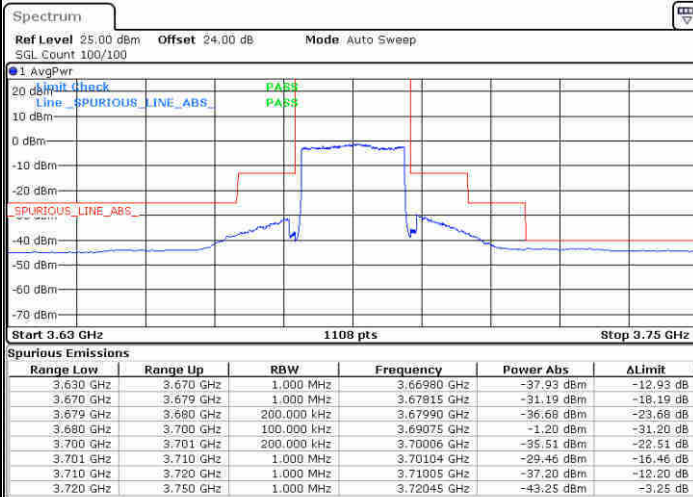
Date: 14.FEB 2020 03:31:41



Date: 14.FEB 2020 03:33:55

## Highest Channel / FullIRB

## N/A



Date: 14.FEB 2020 03:27:54

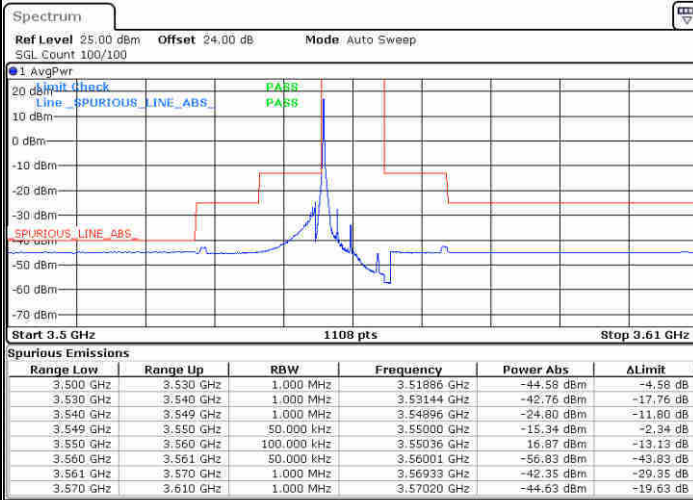


## LTE Band 48 / 5MHz

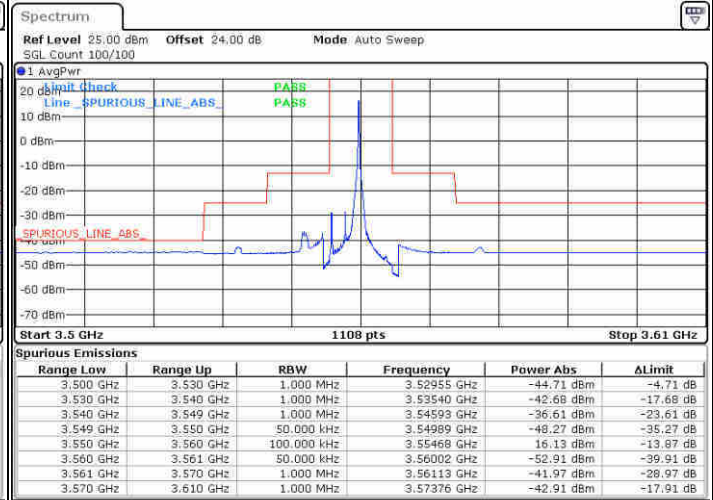
## 16QAM

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



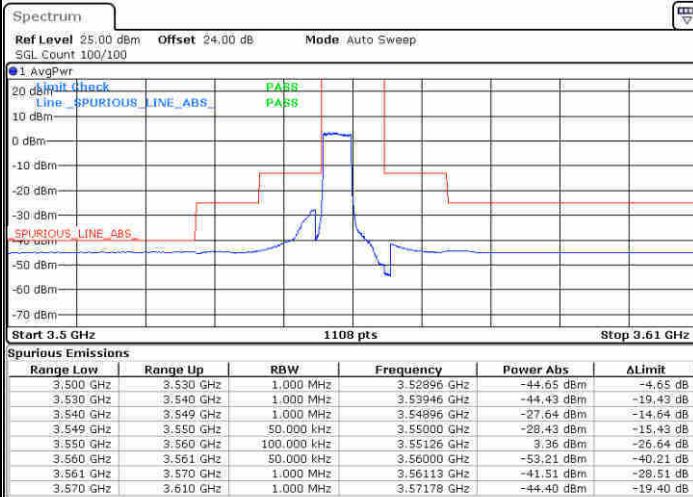
Date: 14.FEB.2020 06:09:46



Date: 14.FEB.2020 06:12:02

## Lowest Channel / FullIRB

## N/A



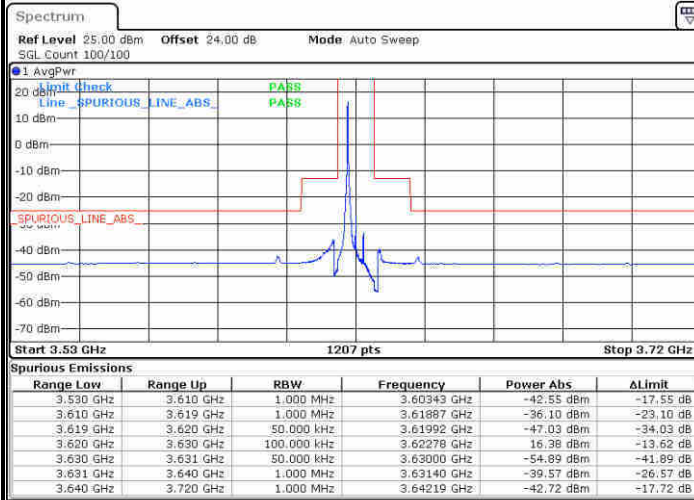
Date: 14.FEB.2020 06:03:09



## LTE Band 48 / 5MHz

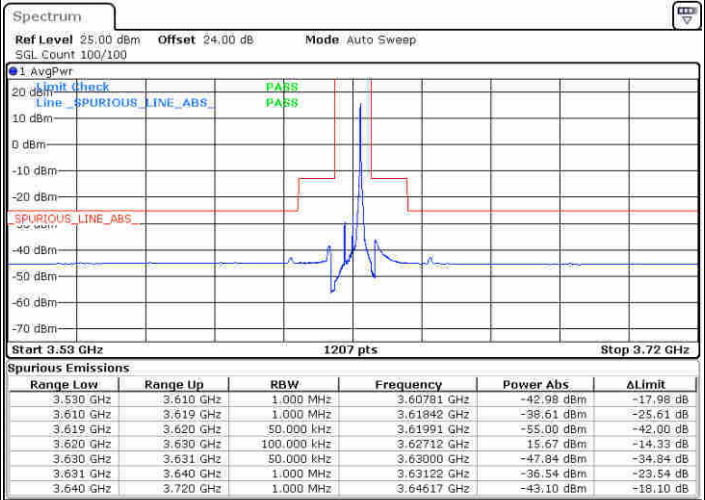
## 16QAM

## Middle Channel / 1RB0



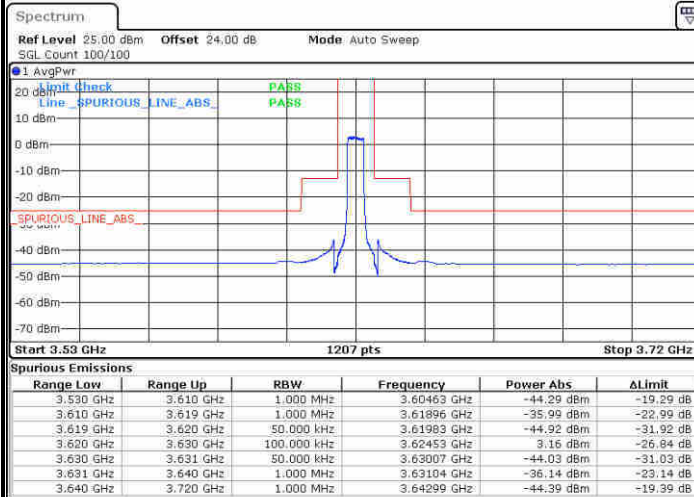
Date: 14.FEB.2020 06:59:07

## Middle Channel / 1RBmax



Date: 14.FEB.2020 07:03:18

## Middle Channel / FullIRB



Date: 14.FEB.2020 06:48:33

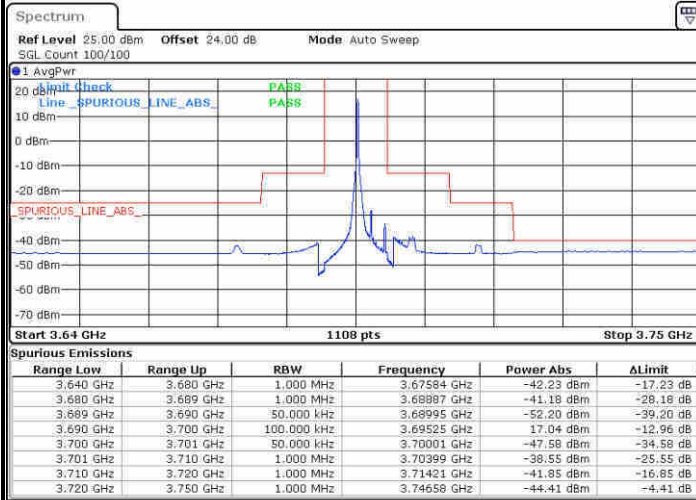
N/A



## LTE Band 48 / 5MHz

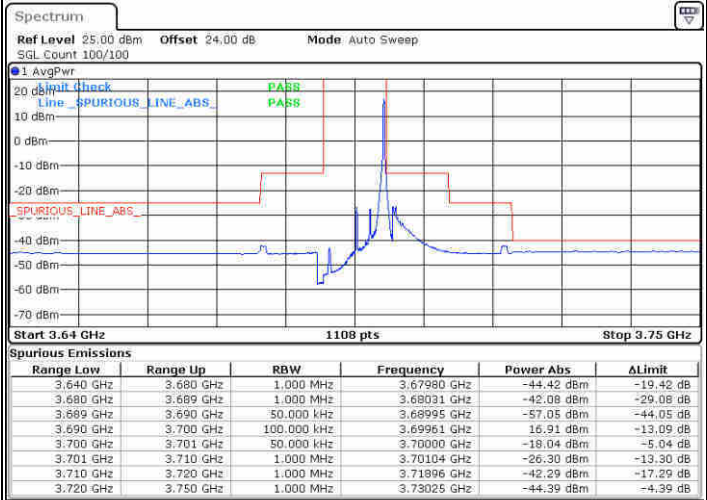
## 16QAM

## Highest Channel / 1RB0



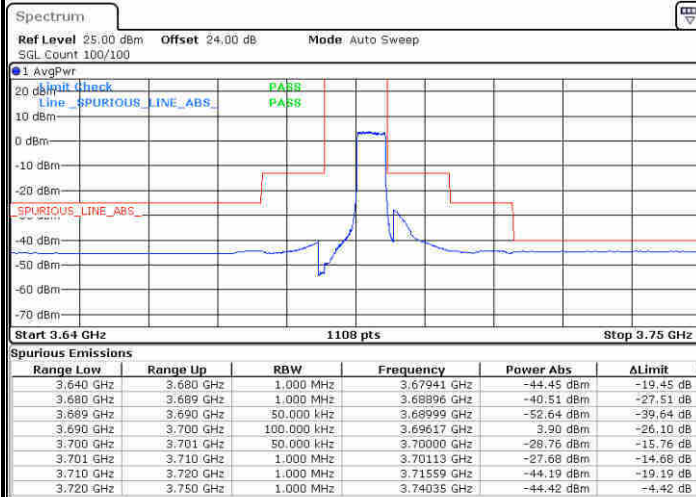
Date: 14.FEB 2020 07:29:56

## Highest Channel / 1RBmax



Date: 14.FEB 2020 07:32:53

## Highest Channel / FullIRB



Date: 14.FEB 2020 07:28:22

N/A

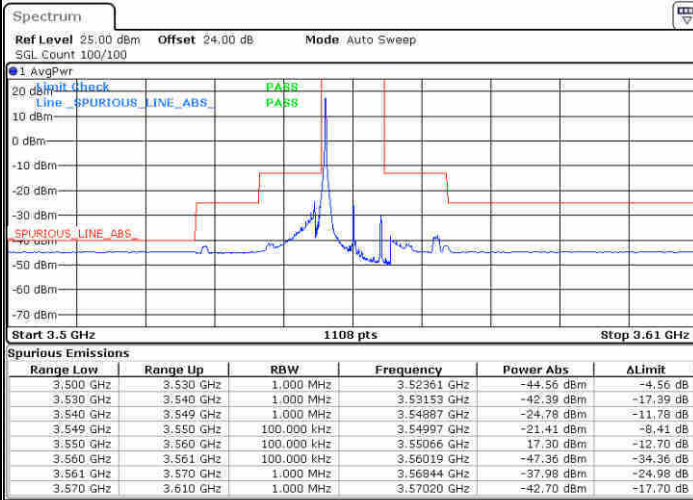


## LTE Band 48 / 10MHz

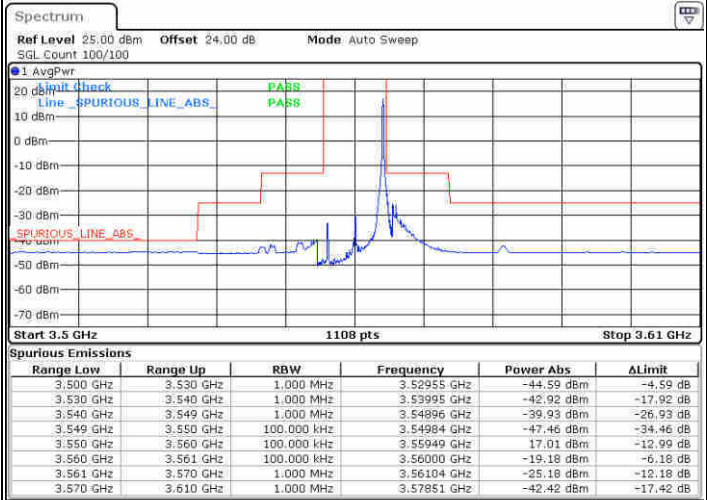
## 16QAM

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



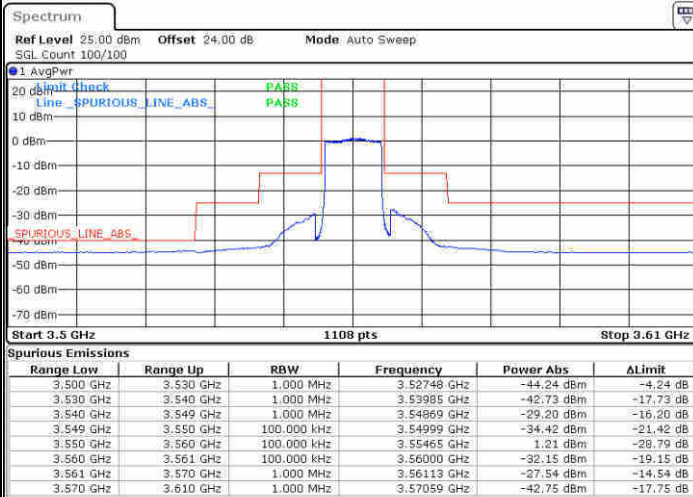
Date: 15 FEB 2020 07:12:41



Date: 15 FEB 2020 07:13:30

## Lowest Channel / FullIRB

## N/A



Date: 15 FEB 2020 07:14:22

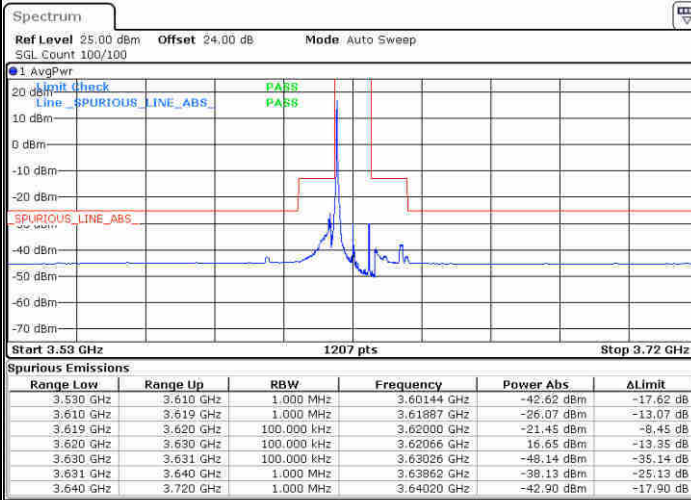


## LTE Band 48 / 10MHz

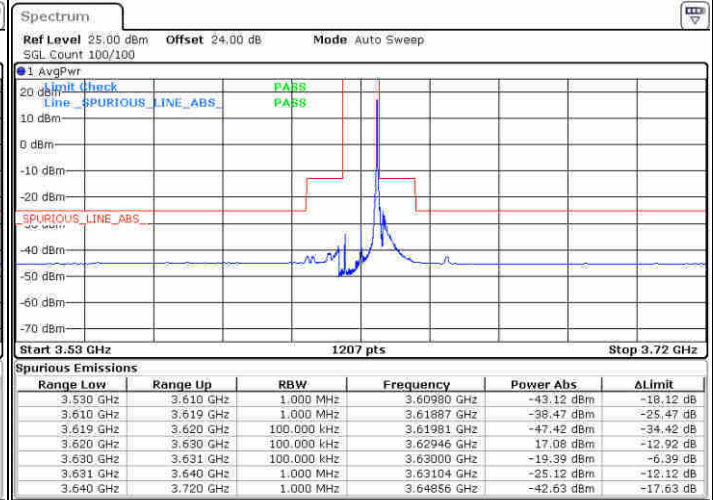
## 16QAM

## MiddleChannel / 1RB0

## Middle Channel / 1RBmax



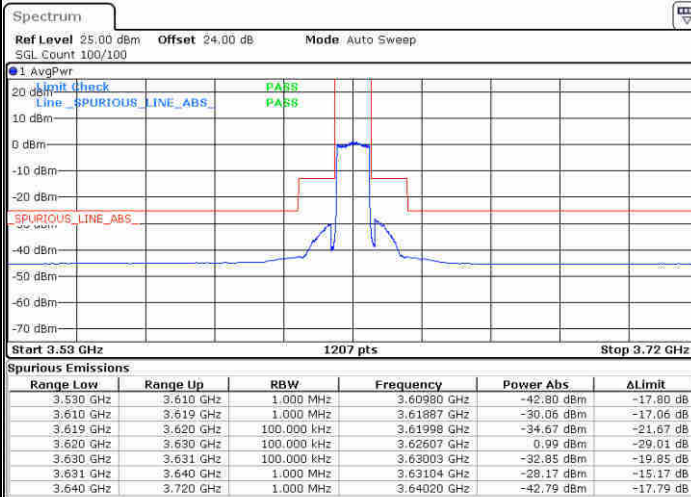
Date: 15 FEB 2020 07:21:39



Date: 15 FEB 2020 07:23:50

## Middle Channel / FullIRB

## N/A



Date: 15 FEB 2020 07:25:54

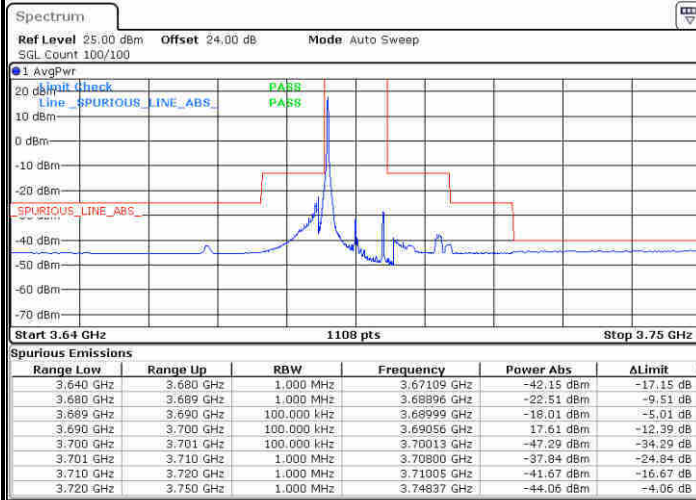




## LTE Band 48 / 10MHz

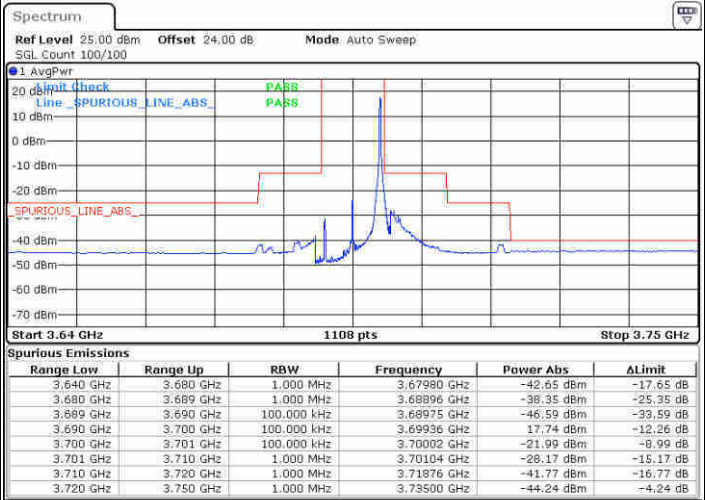
## 16QAM

## Highest Channel / 1RB0



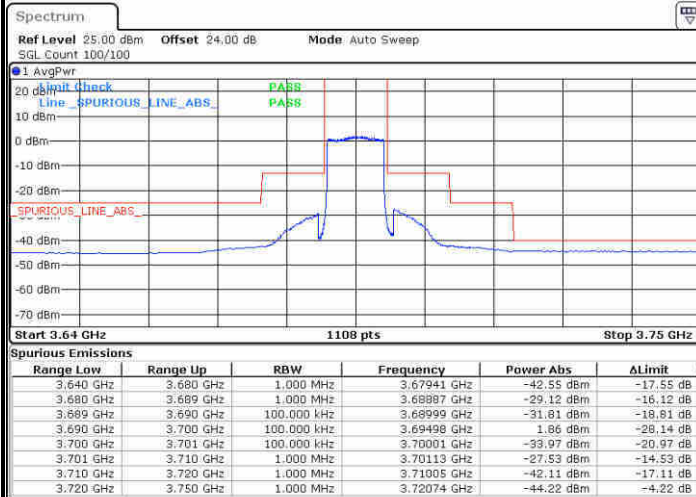
Date: 15 FEB 2020 07:37:08

## Highest Channel / 1RBmax



Date: 15 FEB 2020 07:39:00

## Highest Channel / FullIRB



Date: 15 FEB 2020 07:40:37

N/A

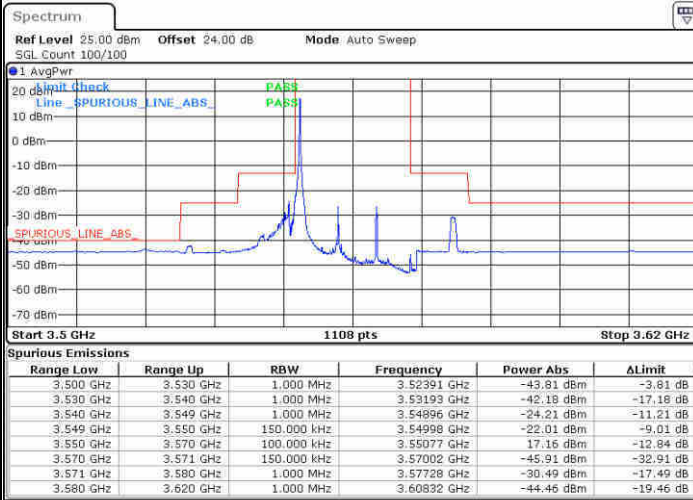


## LTE Band 48 / 15MHz

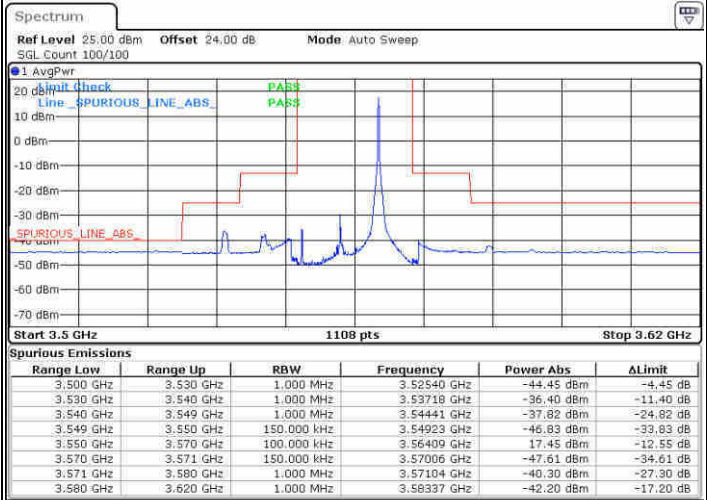
## 16QAM

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



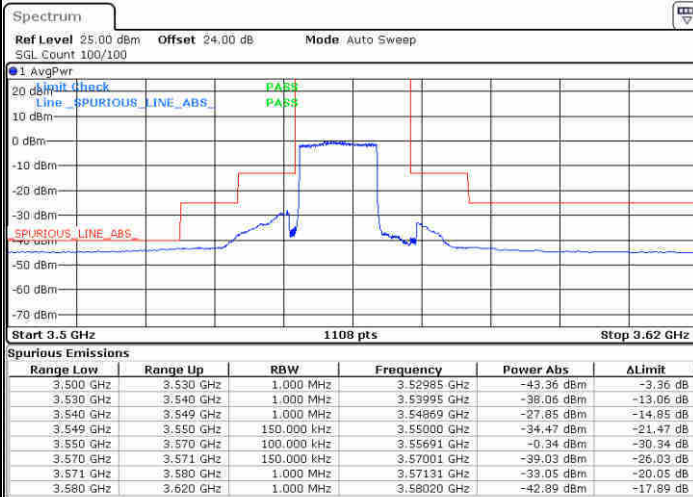
Date: 15 FEB 2020 06:24:54



Date: 15 FEB 2020 06:25:56

## Lowest Channel / FullRB

## N/A



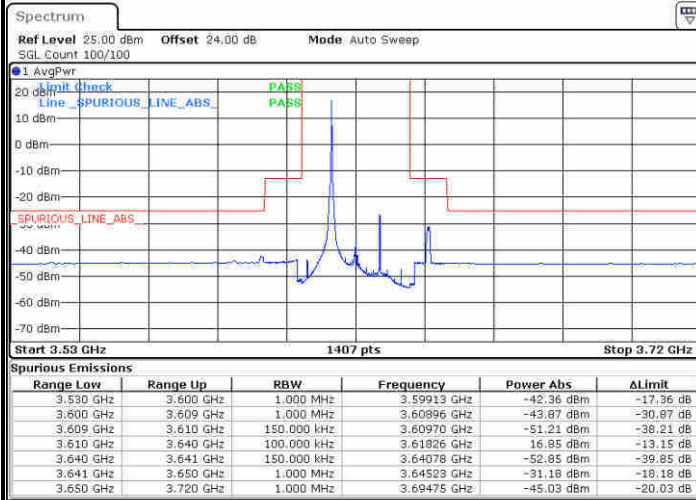
Date: 15 FEB 2020 06:26:55



## LTE Band 48 / 15MHz

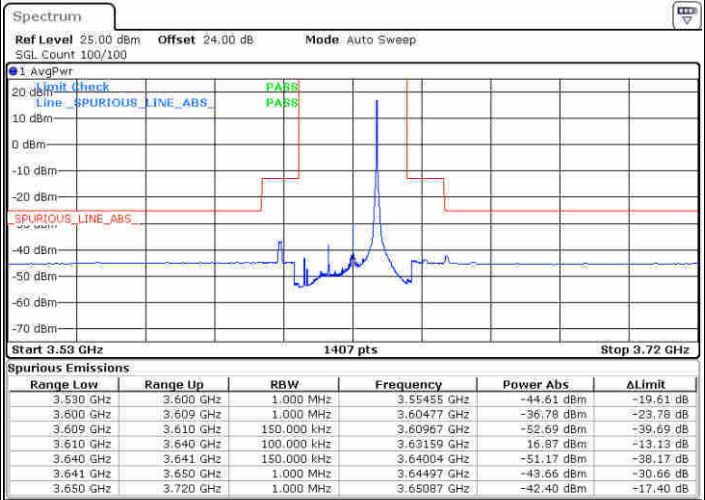
## 16QAM

## Middle Channel / 1RB0



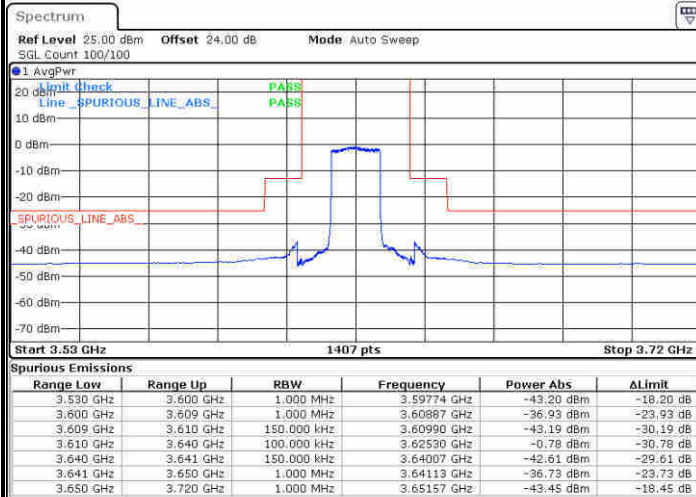
Date: 15 FEB 2020 06:42:44

## Middle Channel / 1RBmax



Date: 15 FEB 2020 06:44:45

## Middle Channel / FullIRB



Date: 15 FEB 2020 06:47:33

## N/A

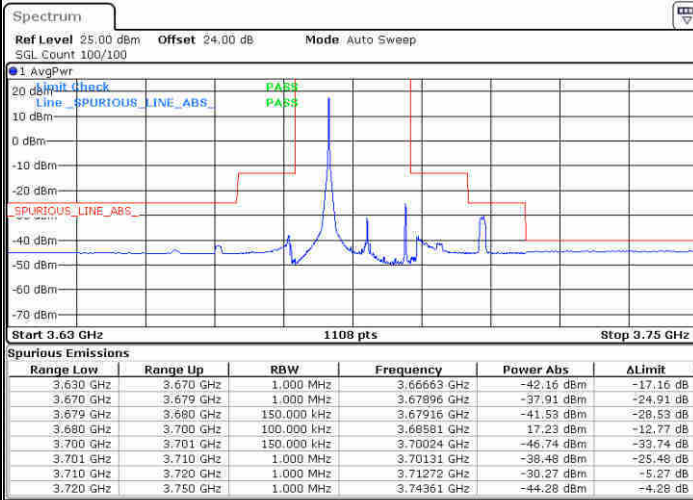


## LTE Band 48 / 15MHz

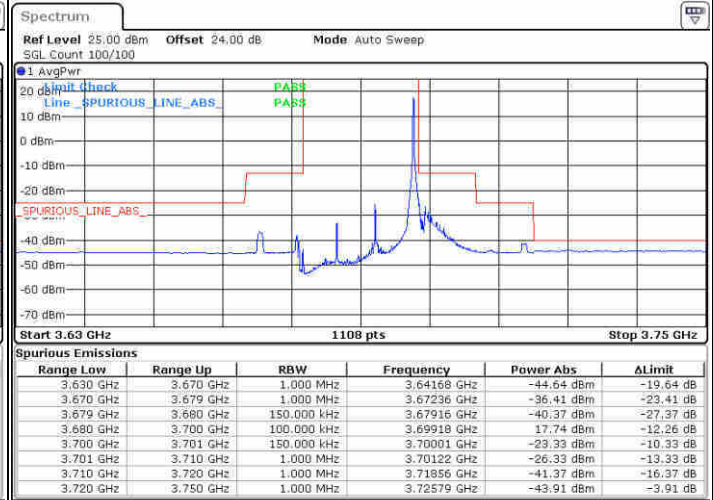
## 16QAM

## Highest Channel / 1RB0

## Highest Channel / 1RBmax



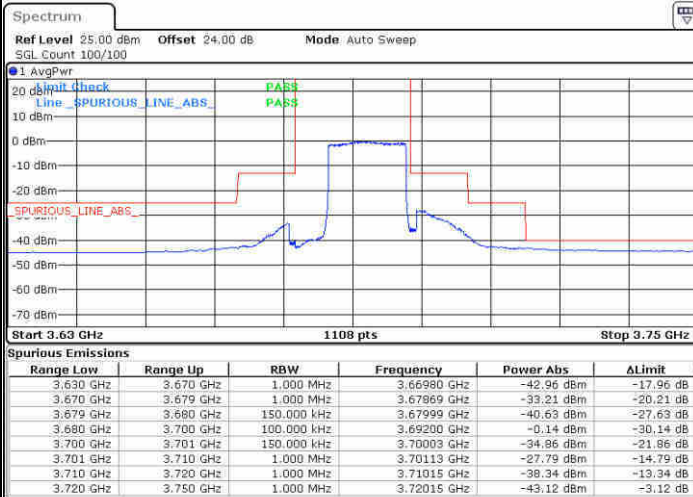
Date: 15 FEB 2020 06:59:12



Date: 15 FEB 2020 07:00:49

## Highest Channel / FullIRB

## N/A



Date: 15 FEB 2020 07:02:47

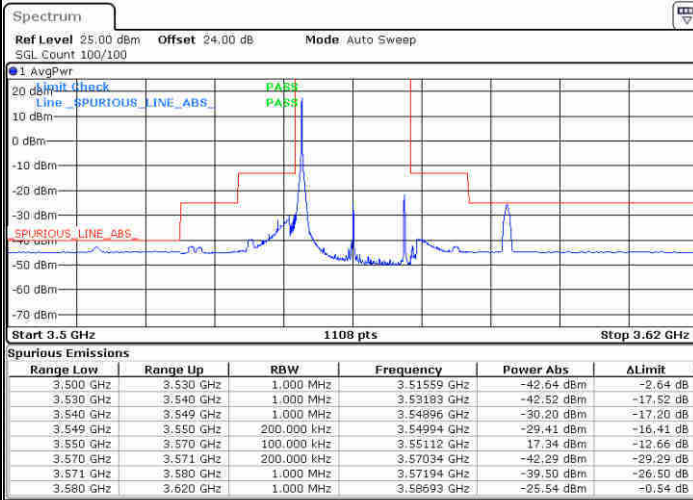


## LTE Band 48 / 20MHz

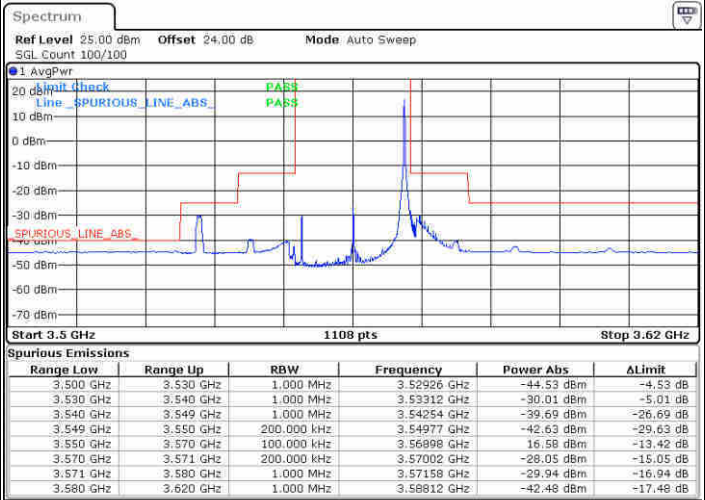
## 16QAM

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



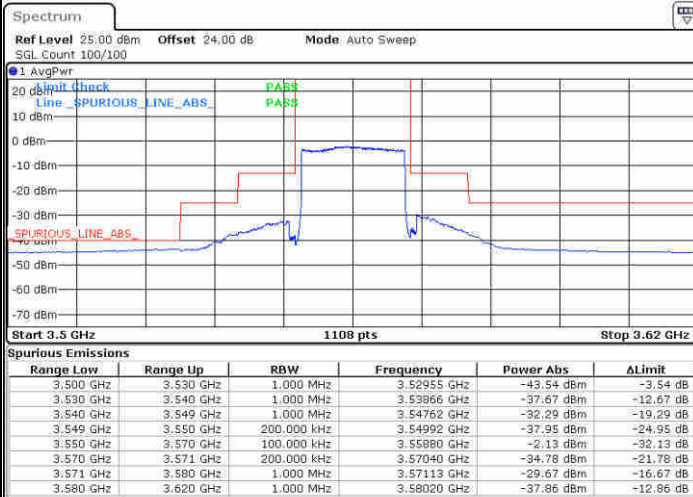
Date: 14.FEB.2020 05:20:37



Date: 14.FEB.2020 05:23:33

## Lowest Channel / FullIRB

## N/A



Date: 14.FEB.2020 05:17:01

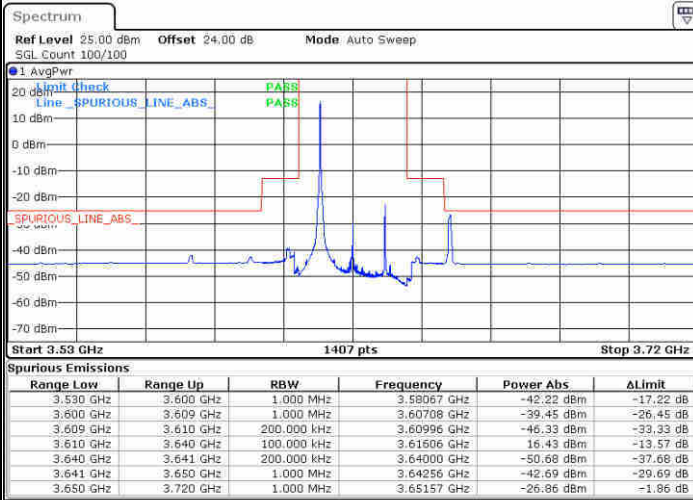


## LTE Band 48 / 20MHz

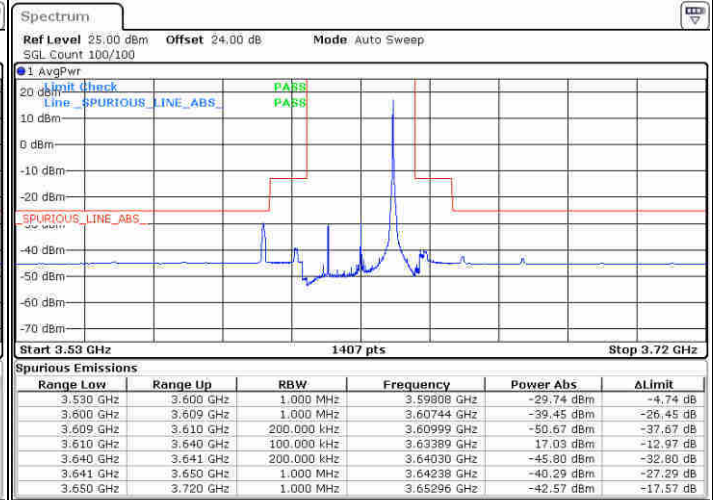
## 16QAM

## Middle Channel / 1RB0

## Middle Channel / 1RBmax



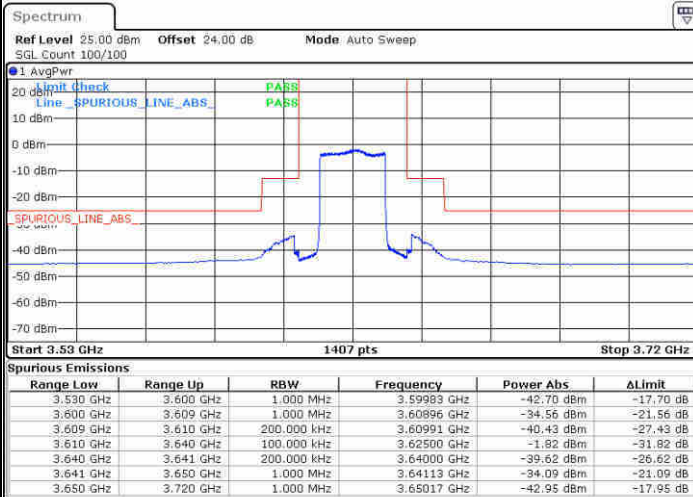
Date: 14.FEB.2020 04:17:53



Date: 14.FEB.2020 04:23:30

## Middle Channel / FullIRB

## N/A



Date: 14.FEB.2020 04:12:14

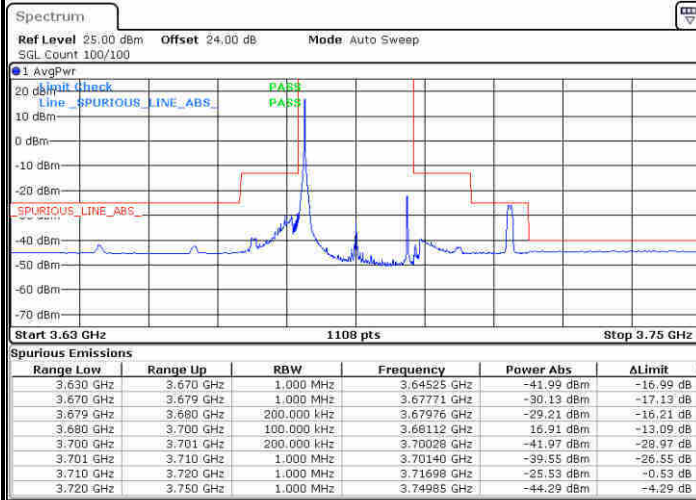




## LTE Band 48 / 20MHz

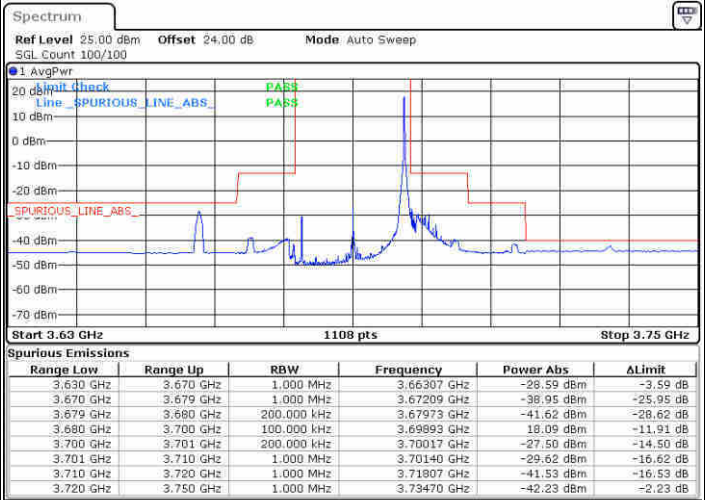
## 16QAM

## Highest Channel / 1RB0



Date: 14.FEB.2020 03:15:42

## Highest Channel / 1RBmax



Date: 14.FEB.2020 03:17:46

## Highest Channel / FullIRB



Date: 14.FEB.2020 03:23:30

## N/A

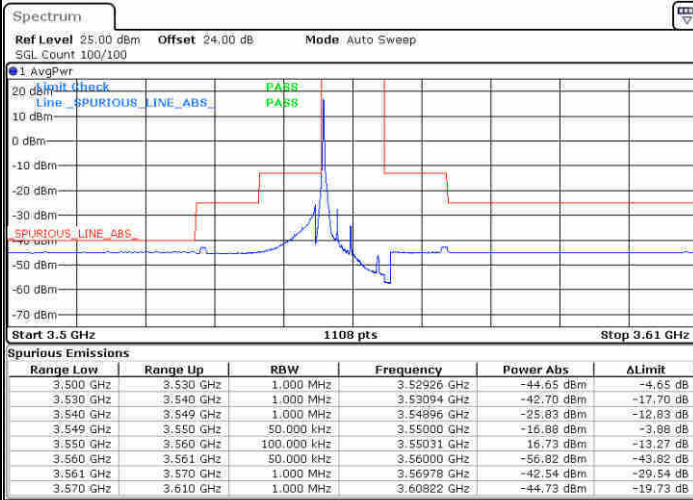


## LTE Band 48 / 5MHz

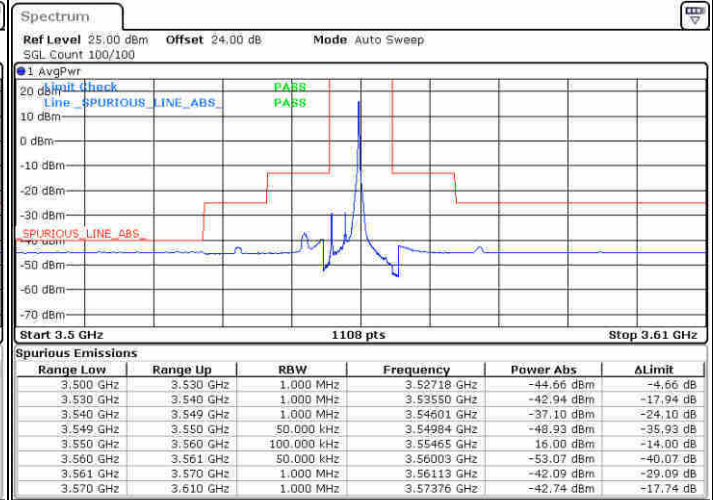
## 64QAM

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



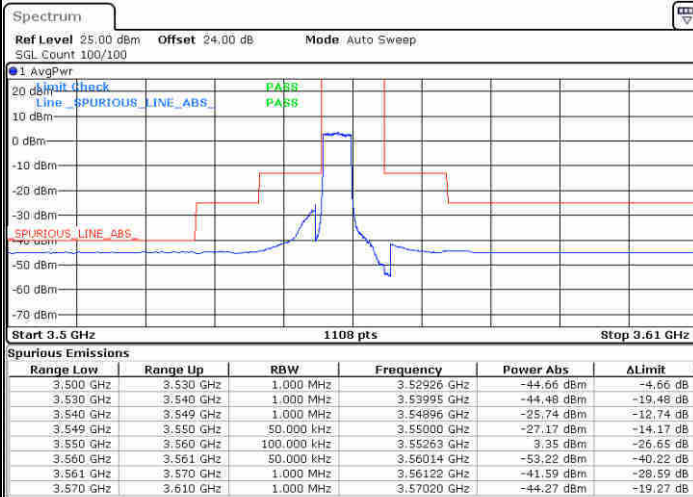
Date: 14.FEB.2020 06:15:08



Date: 14.FEB.2020 06:17:39

## Lowest Channel / FullIRB

## N/A



Date: 14.FEB.2020 06:25:57

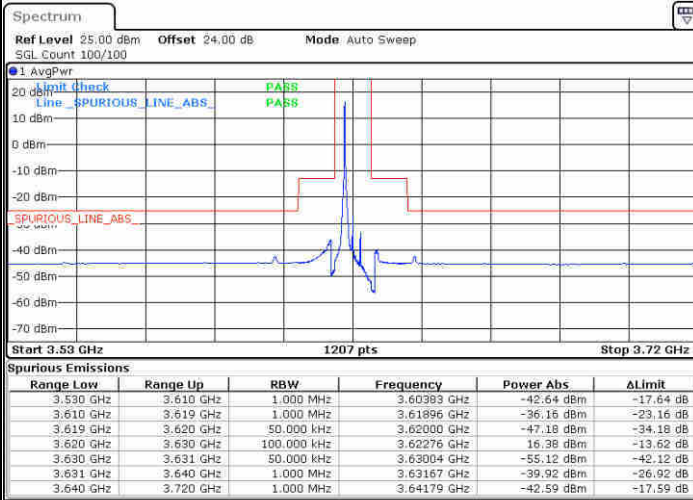


## LTE Band 48 / 5MHz

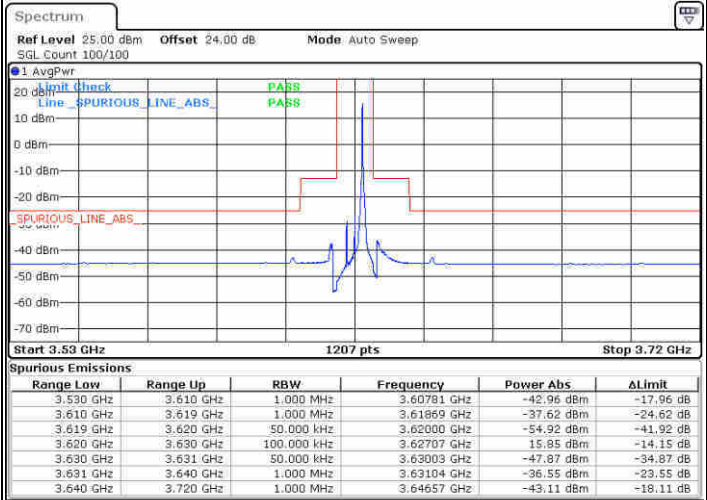
## 64QAM

## Middle Channel / 1RB0

## Middle Channel / 1RBmax



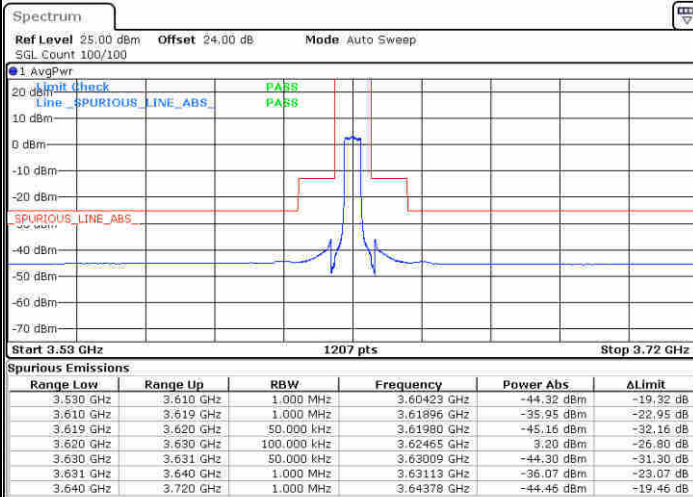
Date: 14.FEB 2020 07:05:38



Date: 14.FEB 2020 07:07:38

## Middle Channel / FullIRB

## N/A



Date: 14.FEB 2020 07:09:54

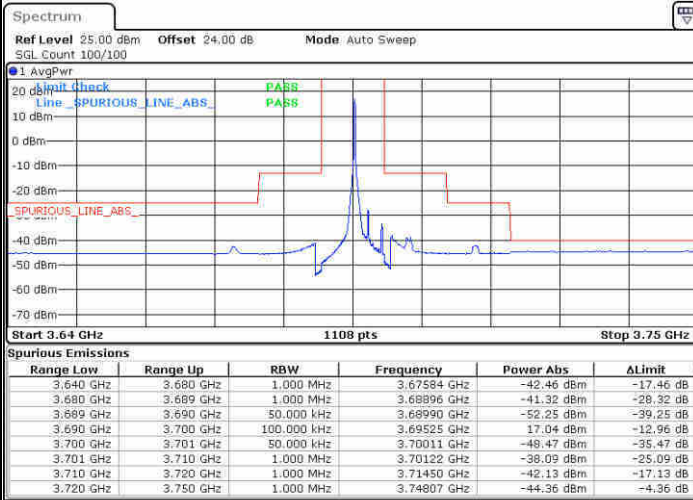


## LTE Band 48 / 5MHz

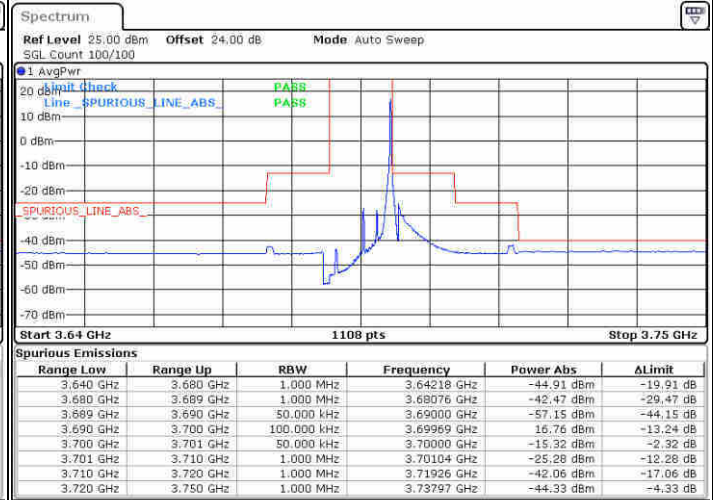
## 64QAM

## Highest Channel / 1RB0

## Highest Channel / 1RBmax



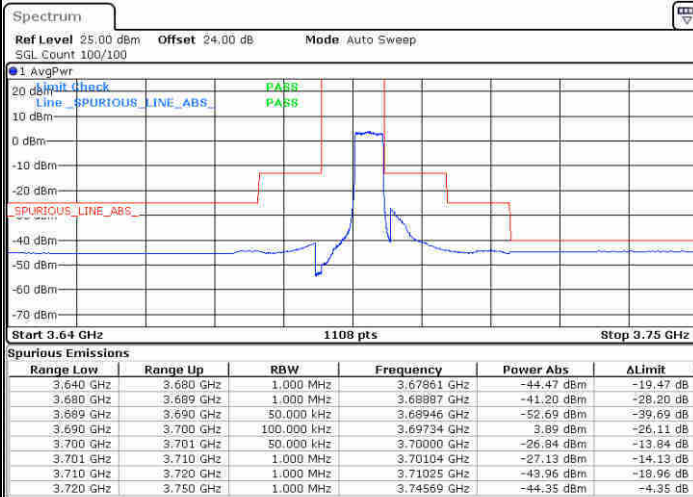
Date: 14.FEB.2020 07:43:46



Date: 14.FEB.2020 07:47:17

## Highest Channel / FullIRB

## N/A



Date: 14.FEB.2020 07:50:29

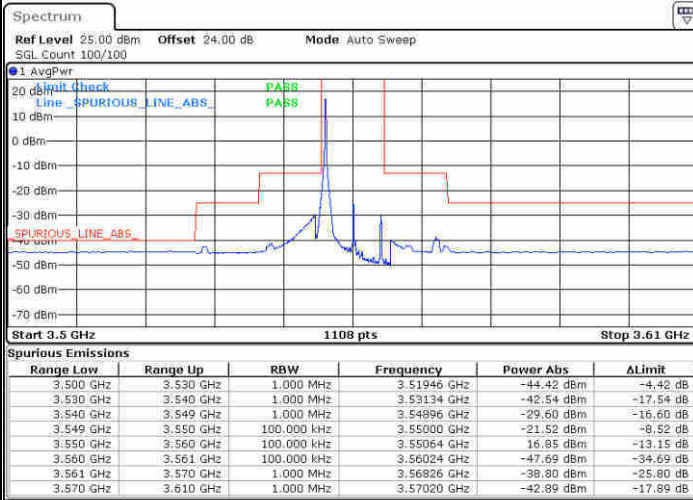


## LTE Band 48 / 10MHz

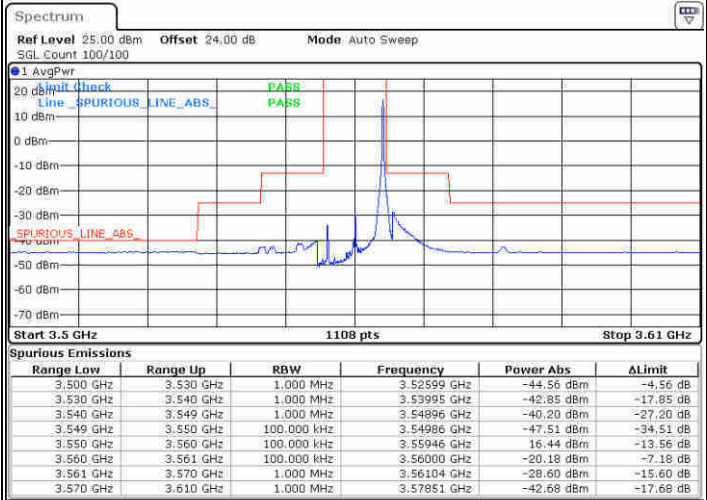
## 64QAM

## Lowest Channel / 1RB0

## Lowest Channel / 1RBmax



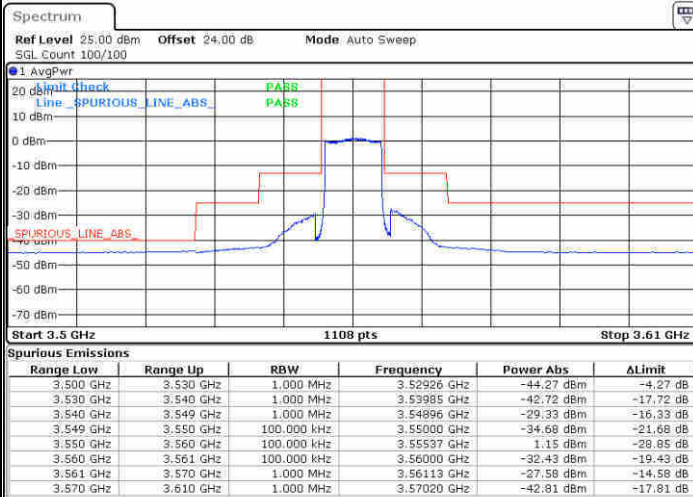
Date: 15 FEB 2020 07:15:17



Date: 15 FEB 2020 07:16:03

## Lowest Channel / FullIRB

## N/A



Date: 15 FEB 2020 07:16:50