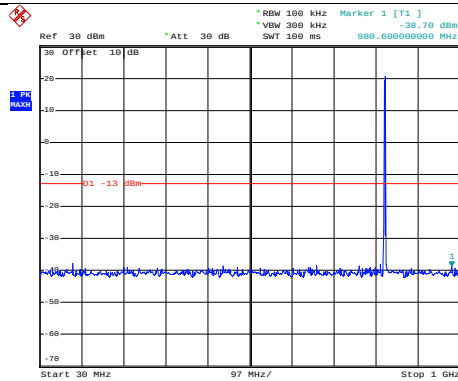


LTE Band 5: QPSK & RB Size 15

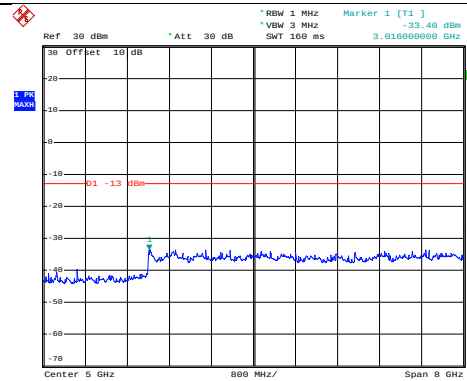
BW: 3MHz

Lowest channel



Date: 26.JUN.2018 14:57:32

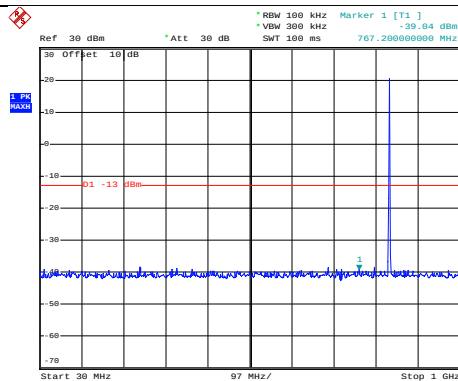
30MHz~1GHz



Date: 26.JUN.2018 14:41:49

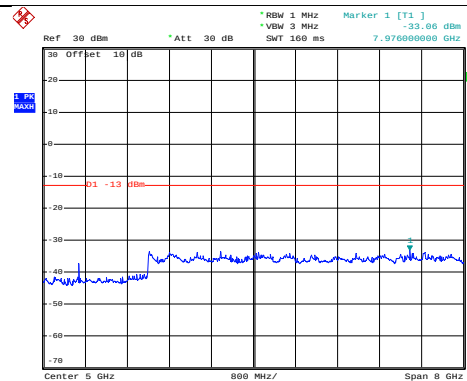
1GHz~9GHz

Middle channel



Date: 26.JUN.2018 14:58:48

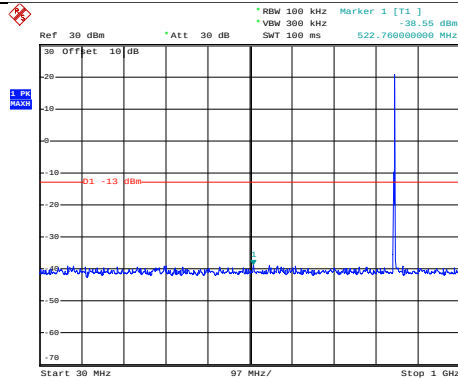
30MHz~1GHz



Date: 26.JUN.2018 14:42:56

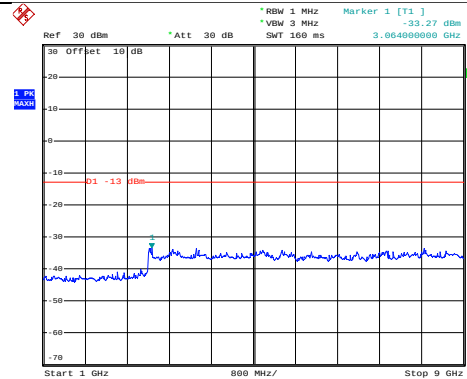
1GHz~9GHz

High channel



Date: 26.JUN.2018 15:00:27

30MHz~1GHz



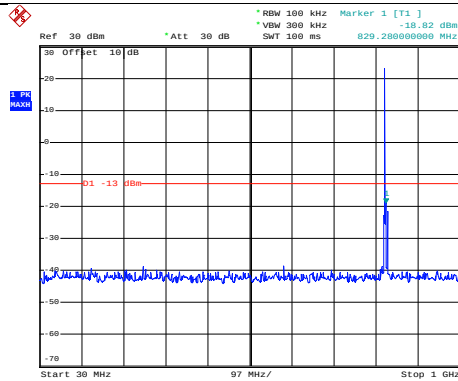
Date: 26.JUN.2018 14:44:05

1GHz~9GHz

LTE Band 5: 16 QAM & RB Size 1

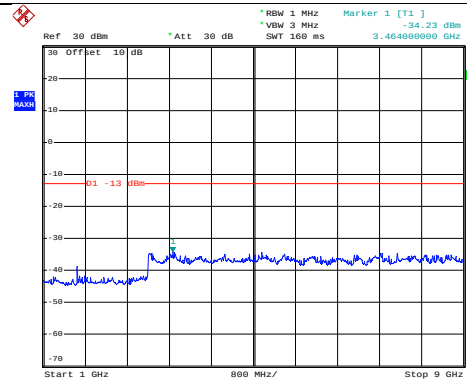
BW: 5MHz

Lowest channel



Date: 26.JUN.2018 15:01:55

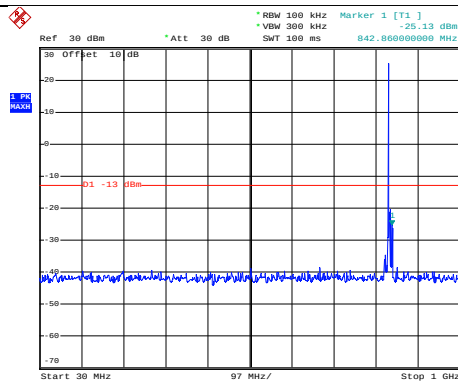
30MHz~1GHz



Date: 26.JUN.2018 14:44:56

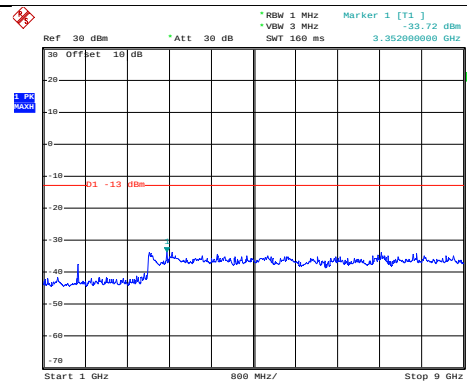
1GHz~9GHz

Middle channel



Date: 26.JUN.2018 15:04:42

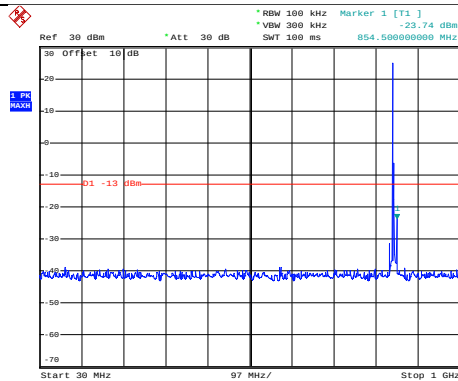
30MHz~1GHz



Date: 26.JUN.2018 14:45:57

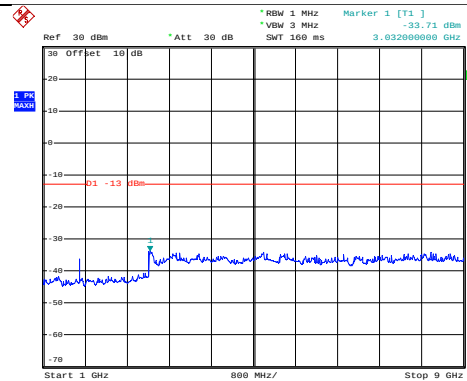
1GHz~9GHz

High channel



Date: 26.JUN.2018 15:06:09

30MHz~1GHz



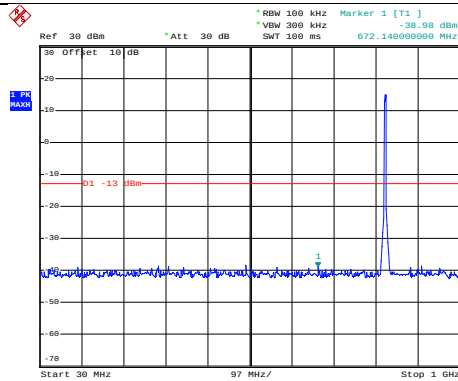
Date: 26.JUN.2018 14:46:59

1GHz~9GHz

LTE Band 5: 16 QAM & RB Size 25

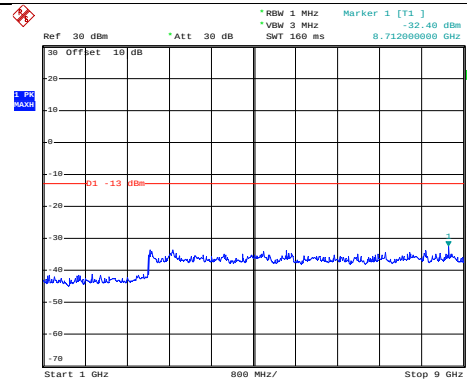
BW: 5MHz

Lowest channel



Date: 26.JUN.2018 15:04:13

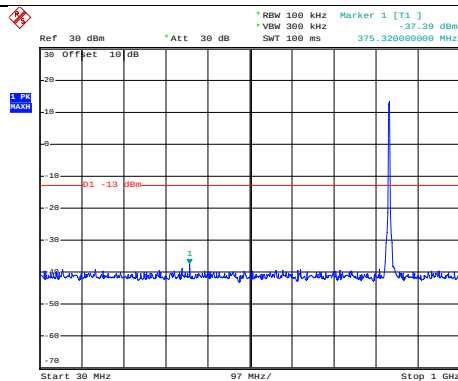
30MHz~1GHz



Date: 26.JUN.2018 14:45:30

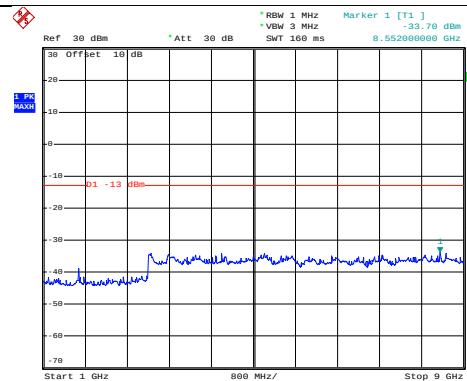
1GHz~9GHz

Middle channel



Date: 26.JUN.2018 15:05:19

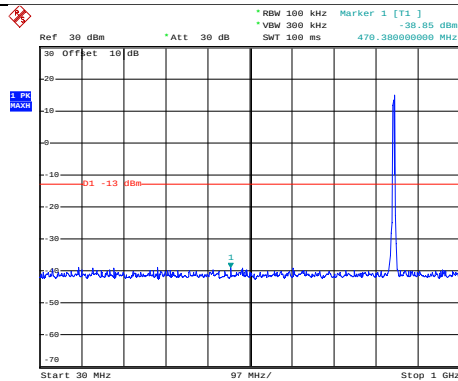
30MHz~1GHz



Date: 26.JUN.2018 14:46:33

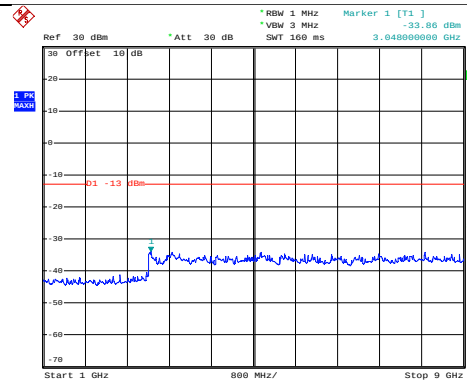
1GHz~9GHz

High channel



Date: 26.JUN.2018 15:06:47

30MHz~1GHz



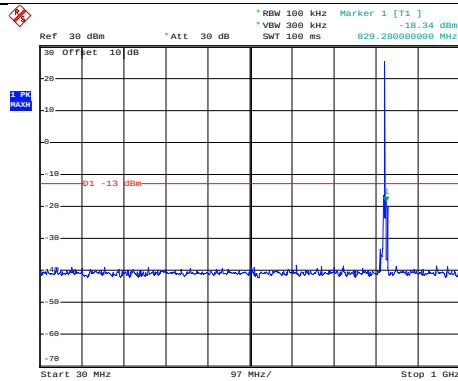
Date: 26.JUN.2018 14:47:39

1GHz~9GHz

LTE Band 5: QPSK & RB Size 1

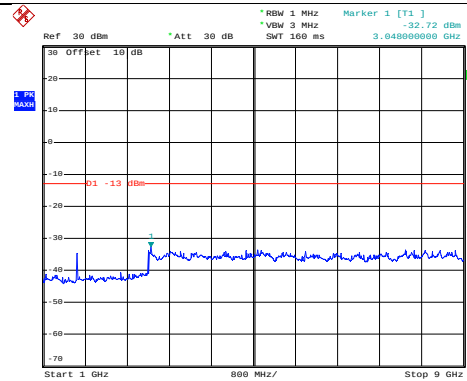
BW: 5MHz

Lowest channel



Date: 26.JUN.2018 15:01:50

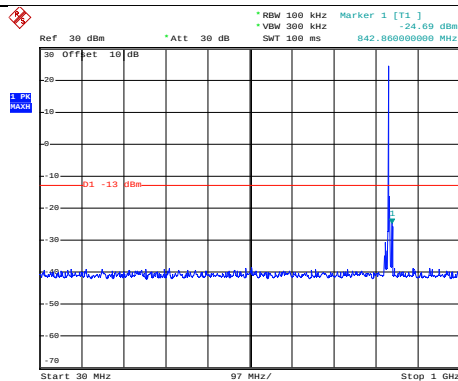
30MHz~1GHz



Date: 26.JUN.2018 14:44:51

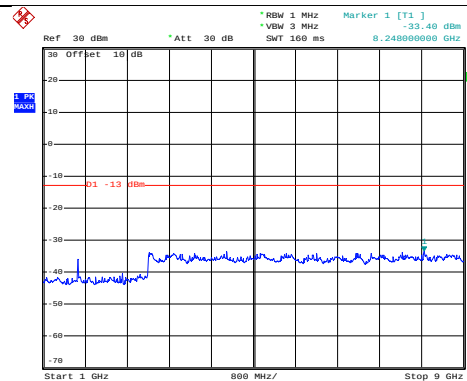
1GHz~9GHz

Middle channel



Date: 26.JUN.2018 15:04:36

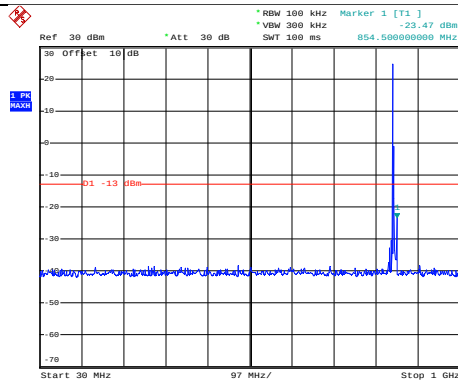
30MHz~1GHz



Date: 26.JUN.2018 14:45:51

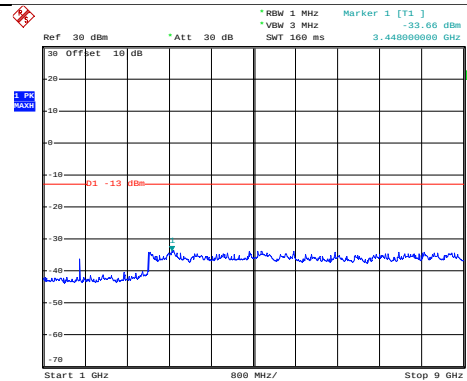
1GHz~9GHz

High channel



Date: 26.JUN.2018 15:06:01

30MHz~1GHz



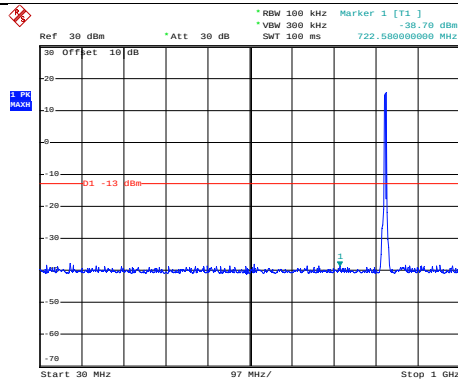
Date: 26.JUN.2018 14:46:53

1GHz~9GHz

LTE Band 5: QPSK & RB Size 25

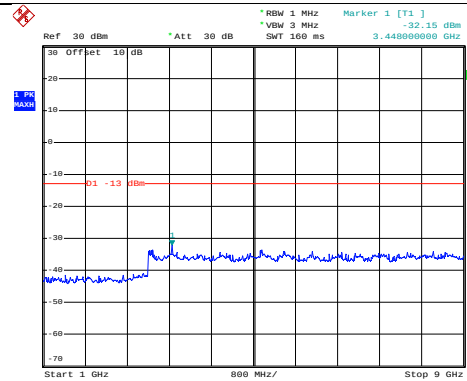
BW: 5MHz

Lowest channel



Date: 26.JUN.2018 15:04:03

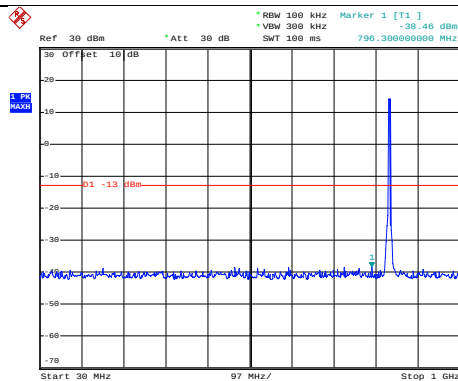
30MHz~1GHz



Date: 26.JUN.2018 14:45:25

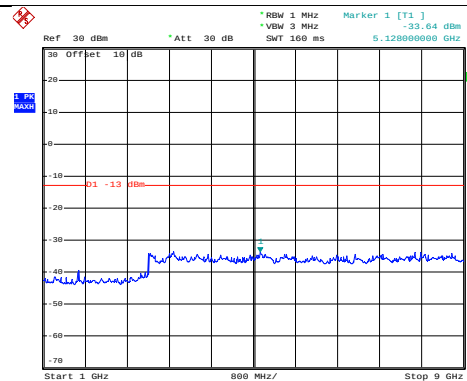
1GHz~9GHz

Middle channel



Date: 26.JUN.2018 15:05:09

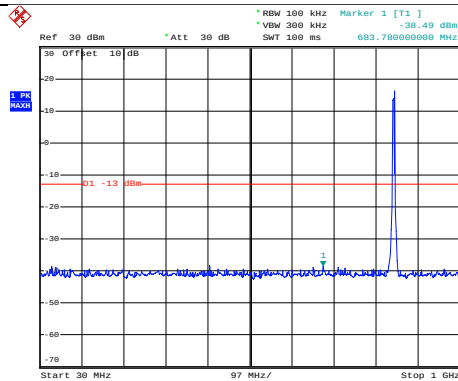
30MHz~1GHz



Date: 26.JUN.2018 14:46:27

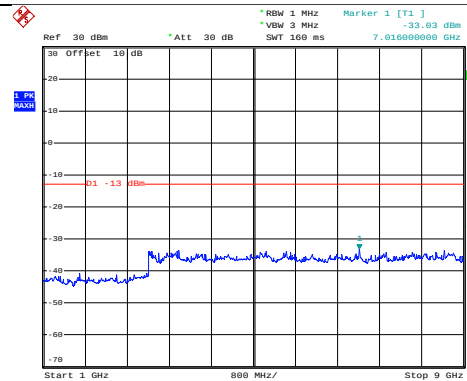
1GHz~9GHz

High channel



Date: 26.JUN.2018 15:06:37

30MHz~1GHz



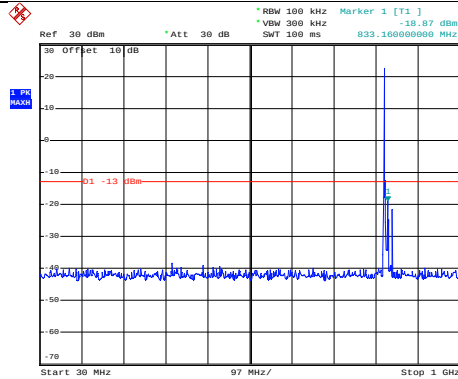
Date: 26.JUN.2018 14:47:33

1GHz~9GHz

LTE Band 5: 16 QAM & RB Size 1

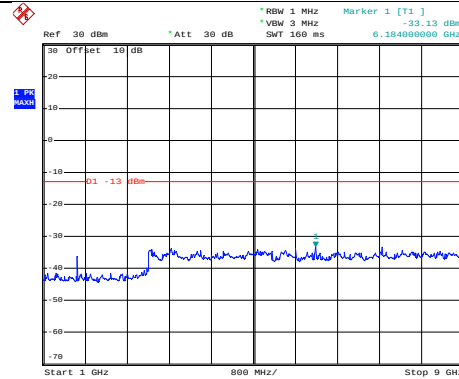
BW: 10MHz

Lowest channel



Date: 26.JUN.2018 15:07:53

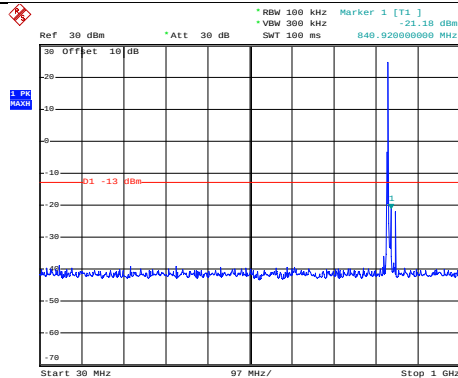
30MHz~1GHz



Date: 26.JUN.2018 14:48:33

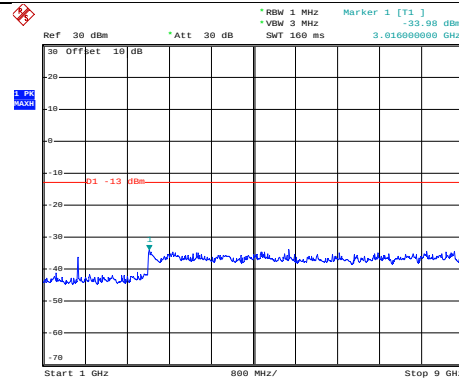
1GHz~9GHz

Middle channel



Date: 26.JUN.2018 15:09:00

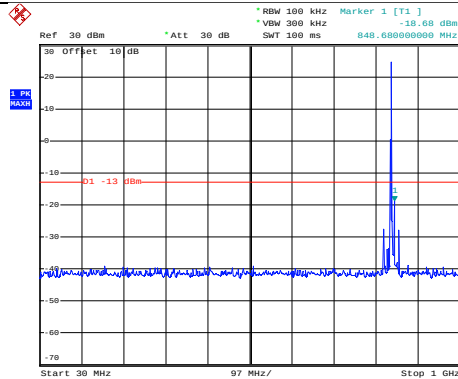
30MHz~1GHz



Date: 26.JUN.2018 14:49:43

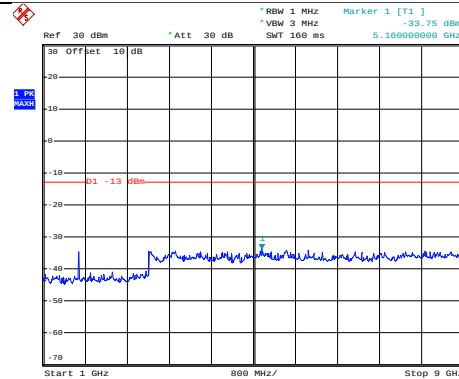
1GHz~9GHz

High channel



Date: 26.JUN.2018 15:10:17

30MHz~1GHz



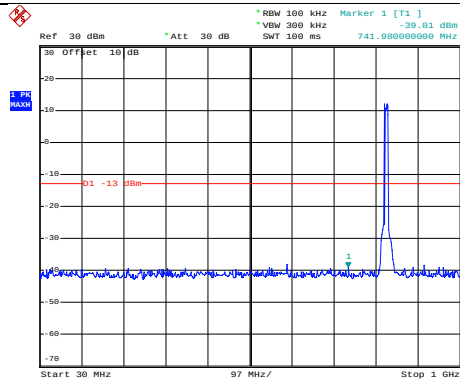
Date: 26.JUN.2018 14:50:40

1GHz~9GHz

LTE Band 5: 16 QAM & RB Size 50

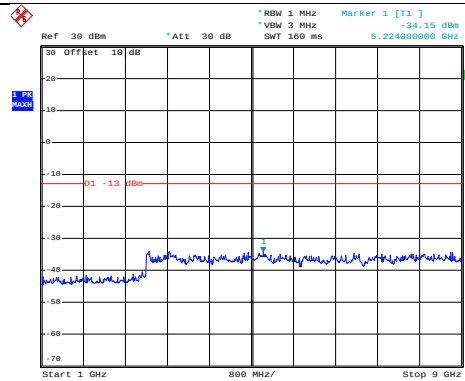
BW: 10MHz

Lowest channel



Date: 26.JUN.2018 15:08:34

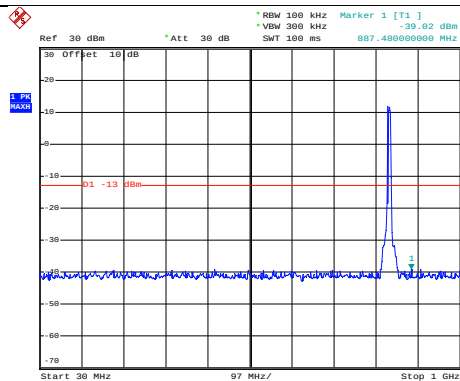
30MHz~1GHz



Date: 26.JUN.2018 14:49:07

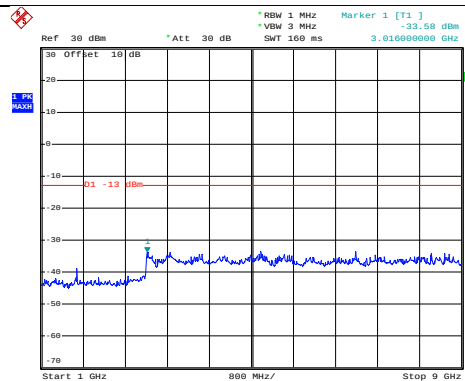
1GHz~9GHz

Middle channel



Date: 26.JUN.2018 15:09:46

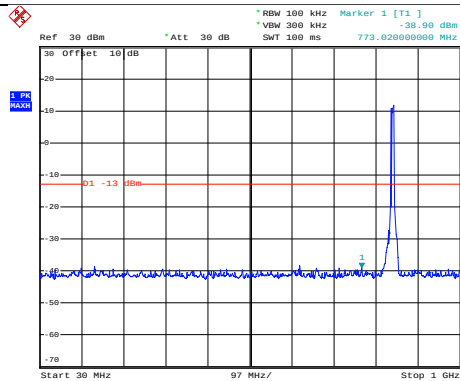
30MHz~1GHz



Date: 26.JUN.2018 14:50:17

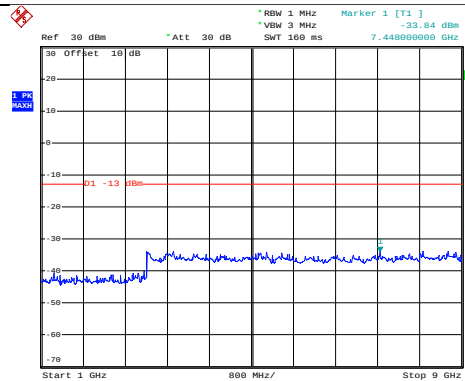
1GHz~9GHz

High channel



Date: 26.JUN.2018 15:10:58

30MHz~1GHz



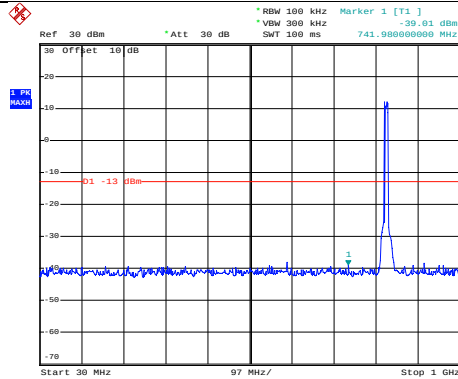
Date: 26.JUN.2018 14:51:14

1GHz~9GHz

LTE Band 5: QPSK & RB Size 1

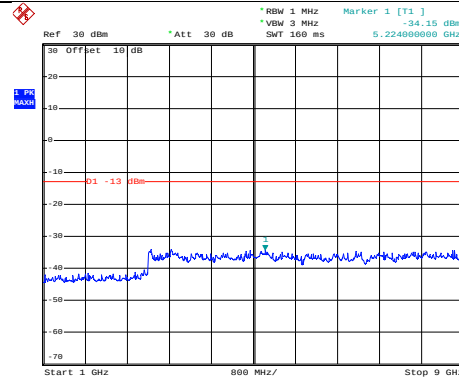
BW: 10MHz

Lowest channel



Date: 26.JUN.2018 15:08:34

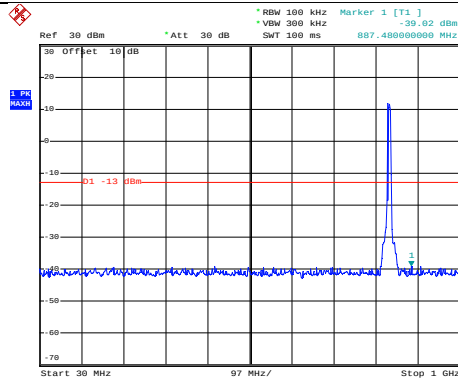
30MHz~1GHz



Date: 26.JUN.2018 14:49:07

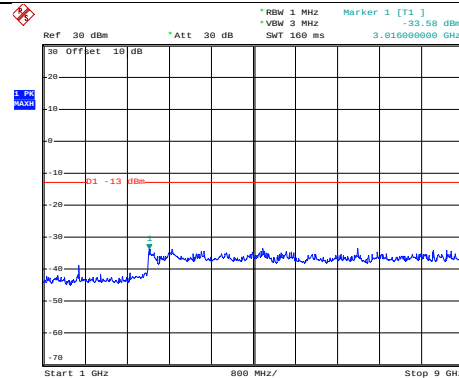
1GHz~9GHz

Middle channel



Date: 26.JUN.2018 15:09:46

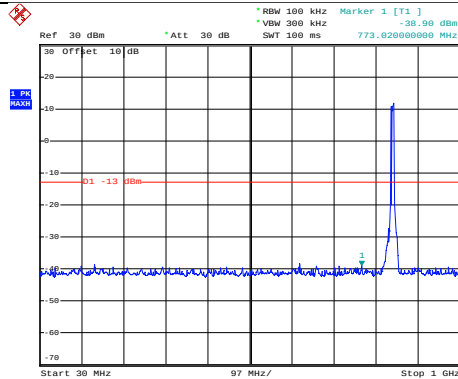
30MHz~1GHz



Date: 26.JUN.2018 14:50:17

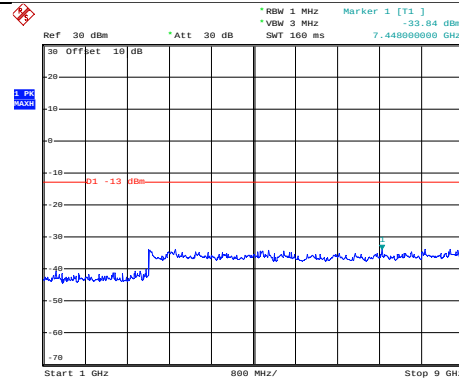
1GHz~9GHz

High channel



Date: 26.JUN.2018 15:10:58

30MHz~1GHz



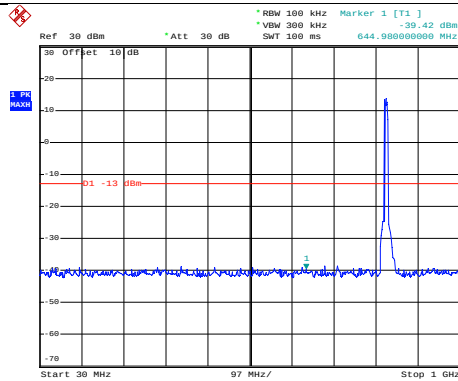
Date: 26.JUN.2018 14:51:14

1GHz~9GHz

LTE Band 5: QPSK & RB Size 50

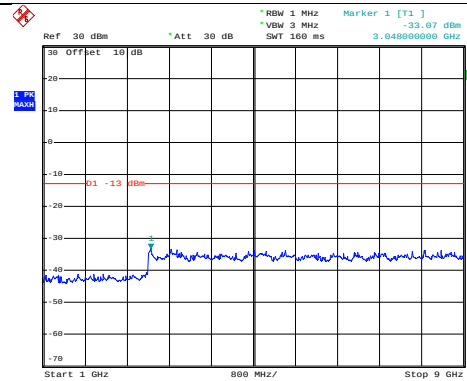
BW: 10MHz

Lowest channel



Date: 26.JUN.2018 15:08:25

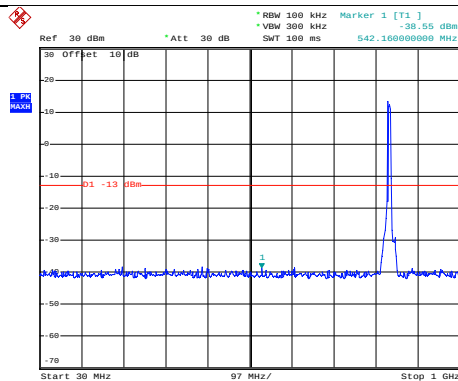
30MHz~1GHz



Date: 26.JUN.2018 14:49:01

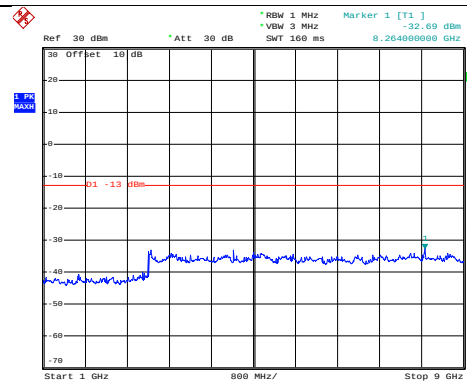
1GHz~9GHz

Middle channel



Date: 26.JUN.2018 15:09:36

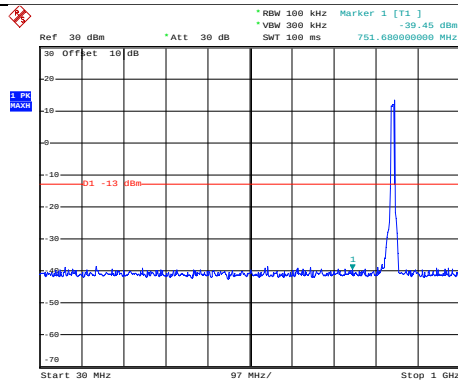
30MHz~1GHz



Date: 26.JUN.2018 14:50:11

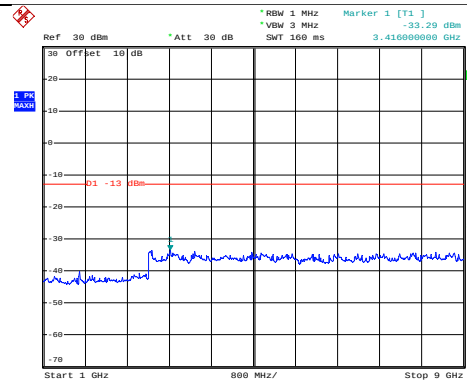
1GHz~9GHz

High channel



Date: 26.JUN.2018 15:10:48

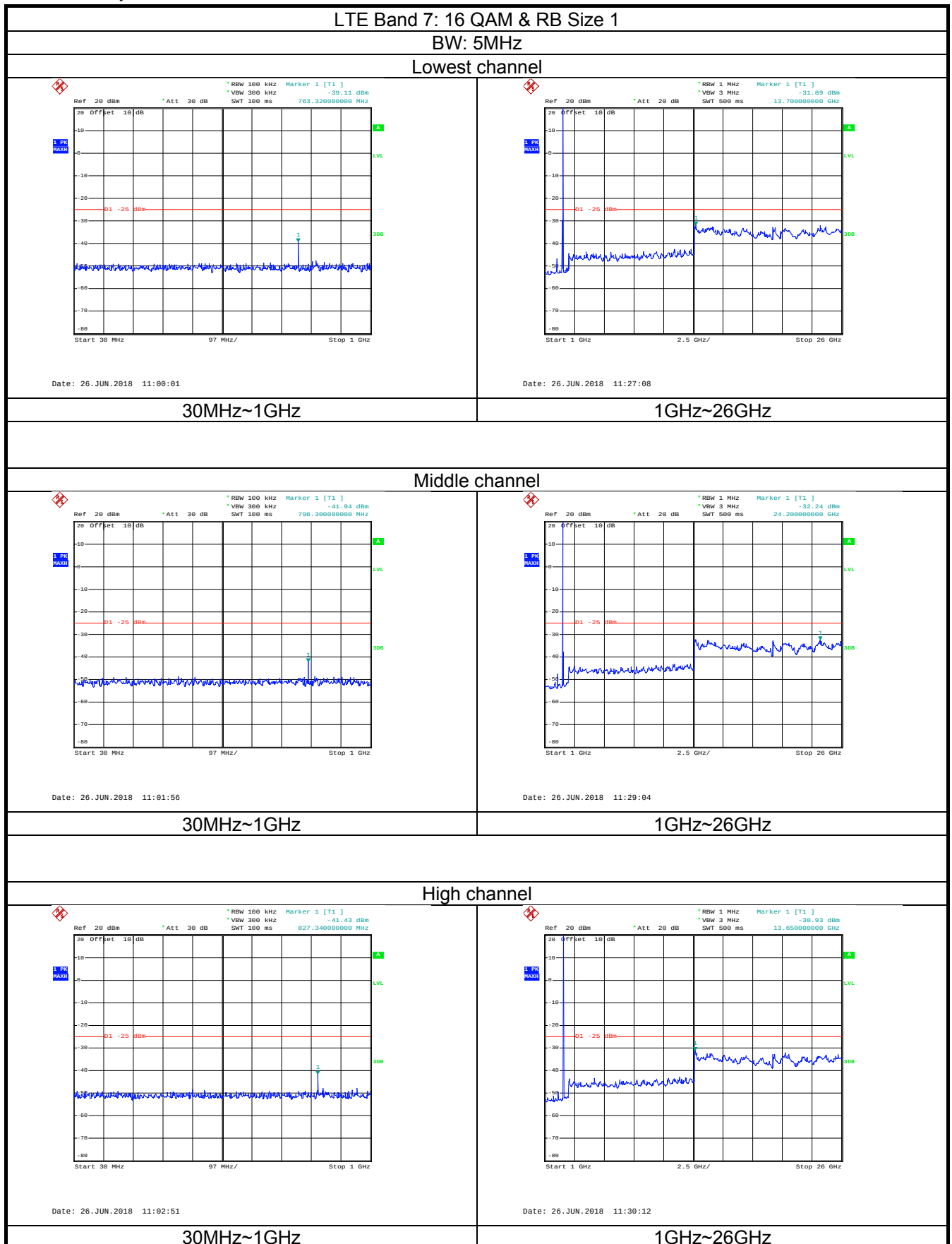
30MHz~1GHz



Date: 26.JUN.2018 14:51:07

1GHz~9GHz

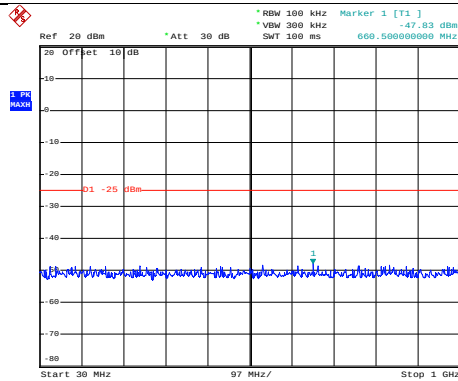
LTE Band 7 part:



LTE Band 7: 16 QAM & RB Size 25

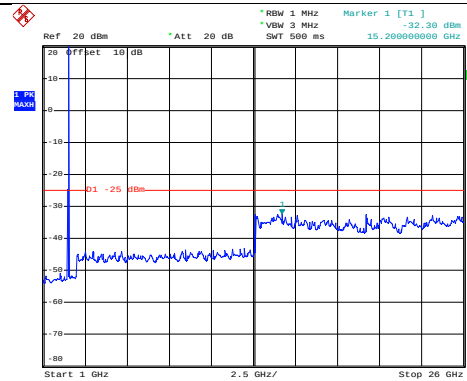
BW: 5MHz

Lowest channel



Date: 26.JUN.2018 11:01:32

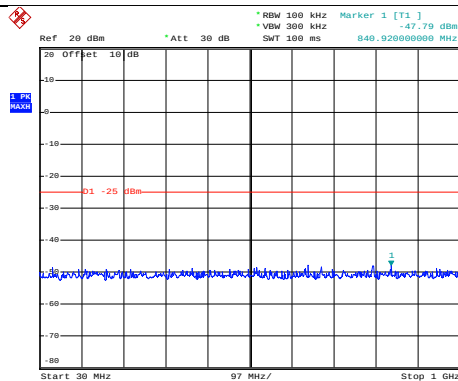
30MHz~1GHz



Date: 26.JUN.2018 11:27:50

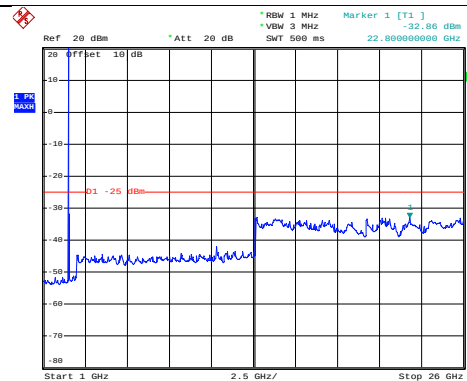
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:02:27

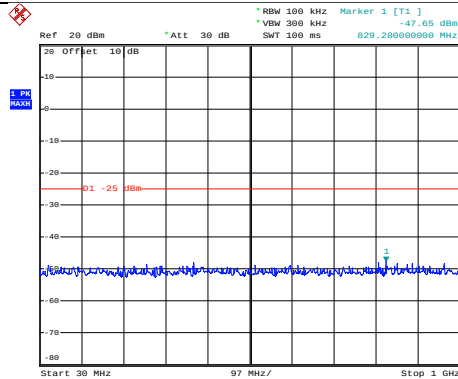
30MHz~1GHz



Date: 26.JUN.2018 11:29:41

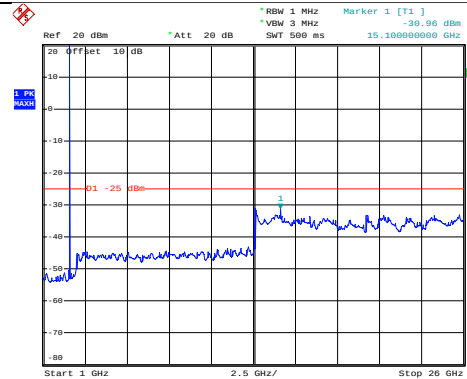
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:03:22

30MHz~1GHz



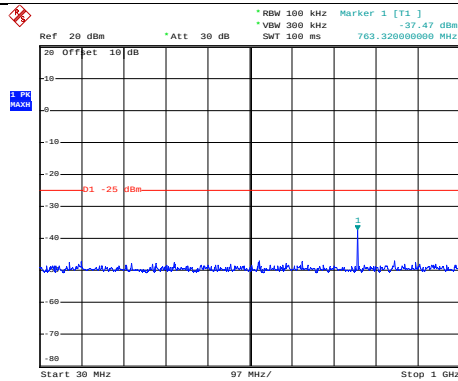
Date: 26.JUN.2018 11:30:51

1GHz~26GHz

LTE Band 7: QPSK & RB Size 1

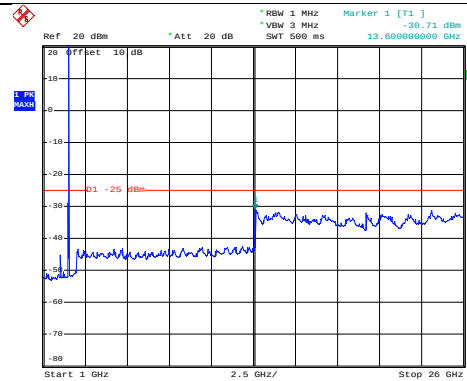
BW: 5MHz

Lowest channel



Date: 26.JUN.2018 10:59:50

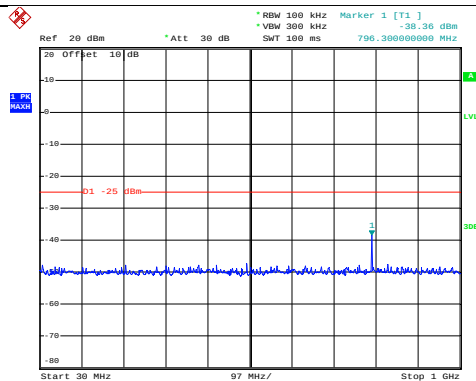
30MHz~1GHz



Date: 26.JUN.2018 11:26:55

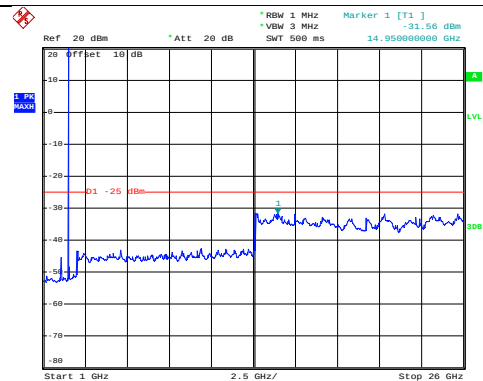
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:01:51

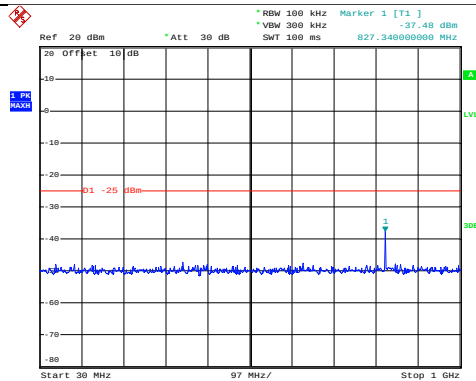
30MHz~1GHz



Date: 26.JUN.2018 11:28:56

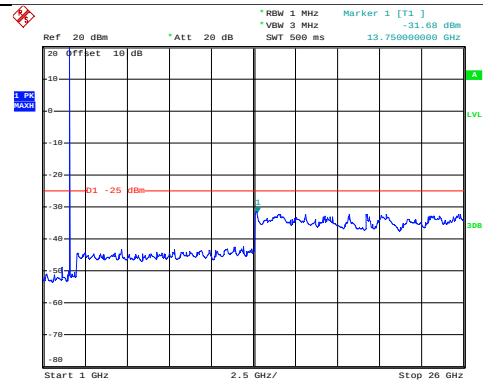
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:02:46

30MHz~1GHz



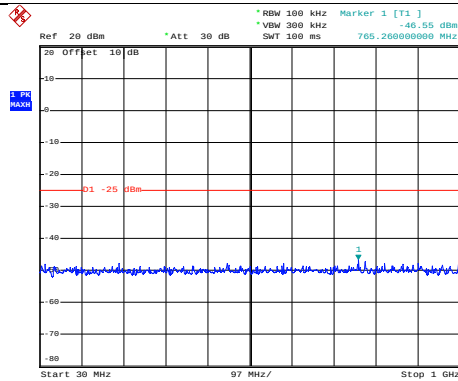
Date: 26.JUN.2018 11:30:04

1GHz~26GHz

LTE Band 7: QPSK & RB Size 25

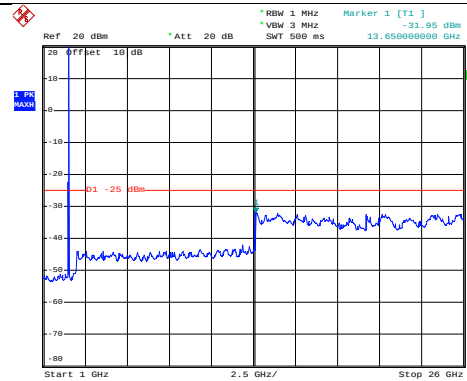
BW: 5MHz

Lowest channel



Date: 26.JUN.2018 11:01:28

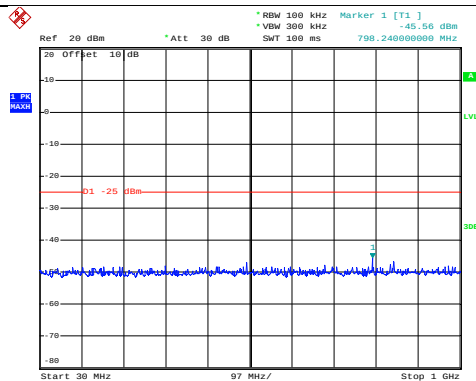
30MHz~1GHz



Date: 26.JUN.2018 11:27:45

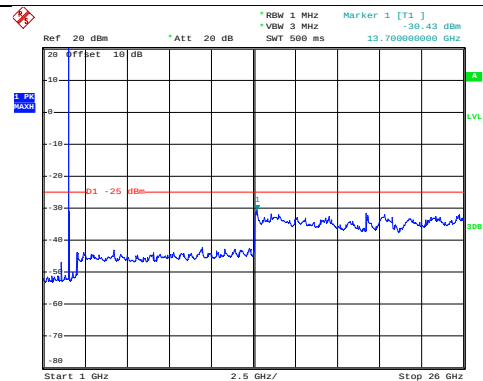
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:02:22

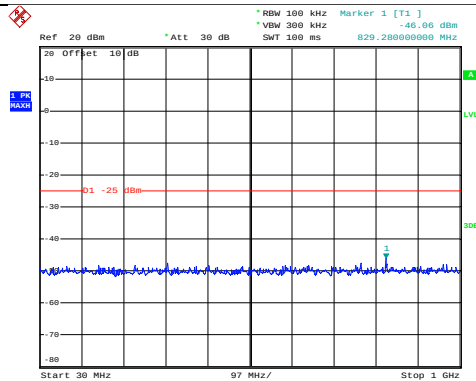
30MHz~1GHz



Date: 26.JUN.2018 11:29:35

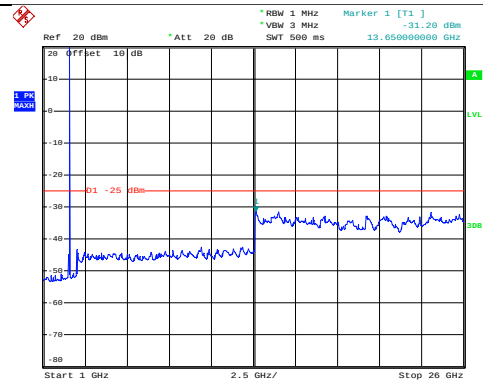
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:03:17

30MHz~1GHz



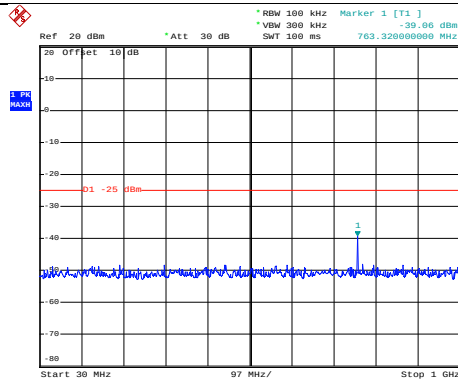
Date: 26.JUN.2018 11:30:45

1GHz~26GHz

LTE Band 7: 16 QAM & RB Size 1

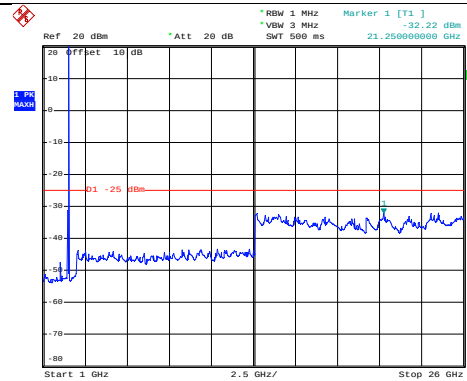
BW: 10MHz

Lowest channel



Date: 26.JUN.2018 11:04:00

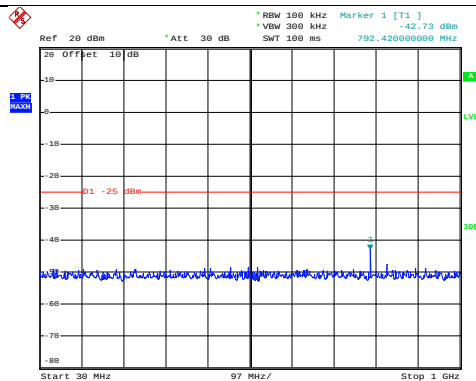
30MHz~1GHz



Date: 26.JUN.2018 11:31:33

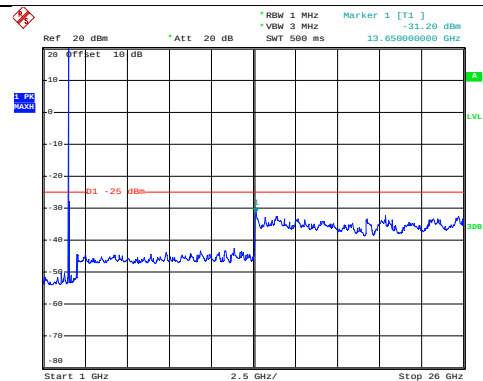
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:05:21

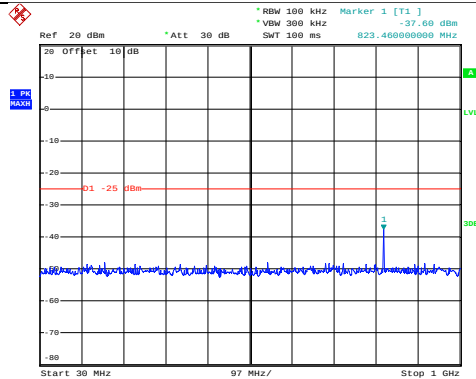
30MHz~1GHz



Date: 26.JUN.2018 11:32:41

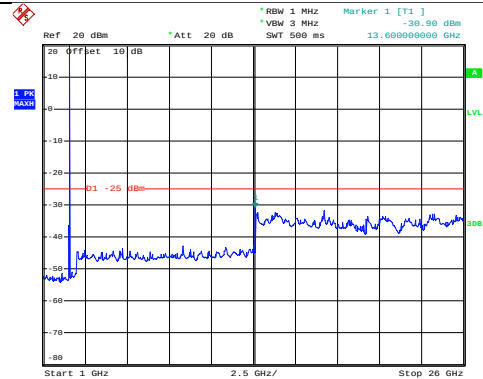
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:06:16

30MHz~1GHz



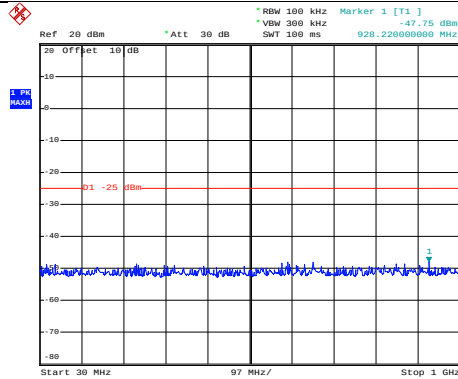
Date: 26.JUN.2018 11:33:40

1GHz~26GHz

LTE Band 7: 16 QAM & RB Size 50

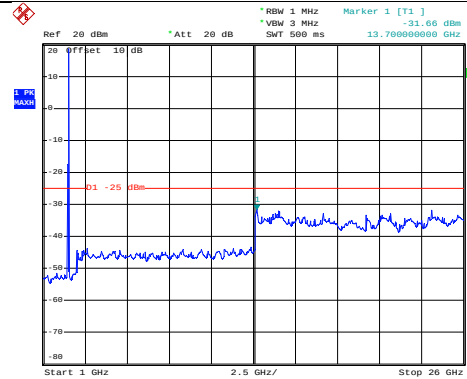
BW: 10MHz

Lowest channel



Date: 26.JUN.2018 11:04:30

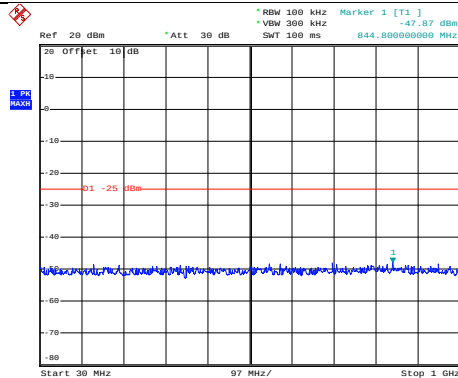
30MHz~1GHz



Date: 26.JUN.2018 11:32:15

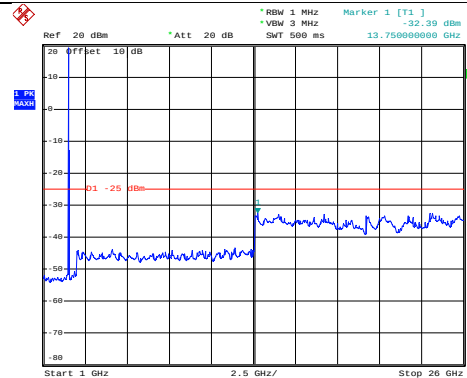
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:05:52

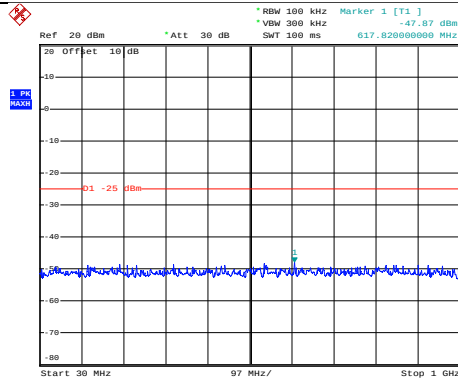
30MHz~1GHz



Date: 26.JUN.2018 11:33:16

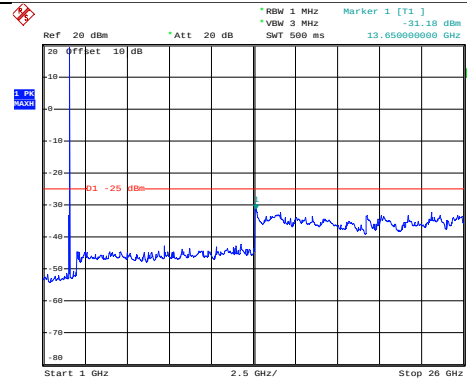
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:06:44

30MHz~1GHz



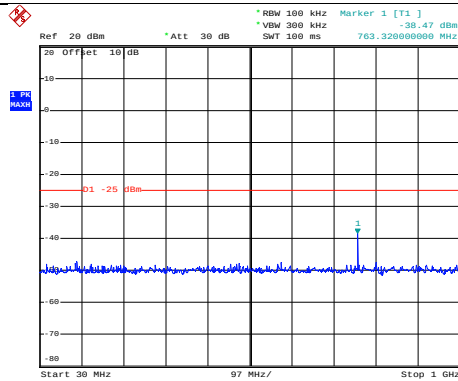
Date: 26.JUN.2018 11:34:16

1GHz~26GHz

LTE Band 7: QPSK & RB Size 1

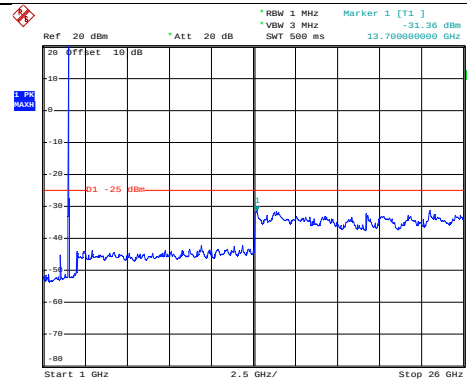
BW: 10MHz

Lowest channel



Date: 26.JUN.2018 11:03:54

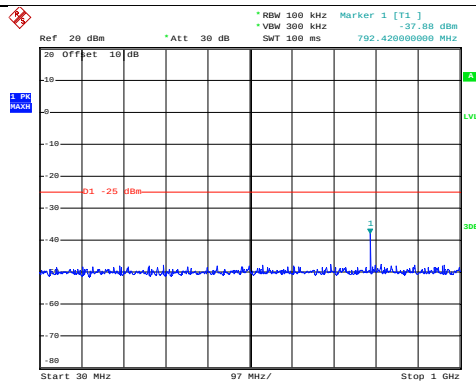
30MHz~1GHz



Date: 26.JUN.2018 11:31:25

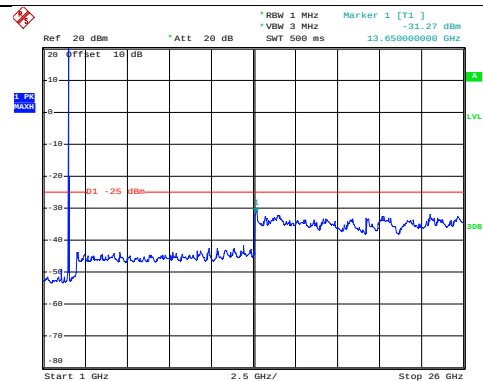
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:05:15

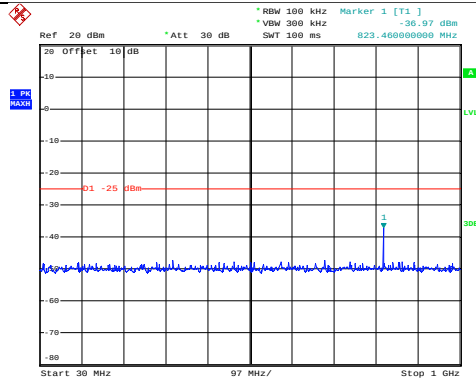
30MHz~1GHz



Date: 26.JUN.2018 11:32:34

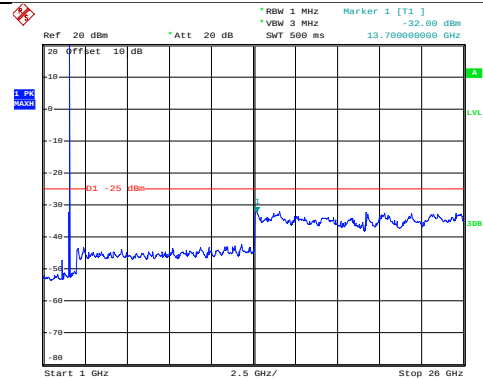
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:06:10

30MHz~1GHz



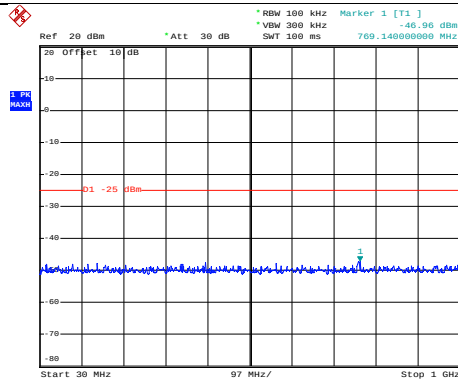
Date: 26.JUN.2018 11:33:34

1GHz~26GHz

LTE Band 7: QPSK & RB Size 50

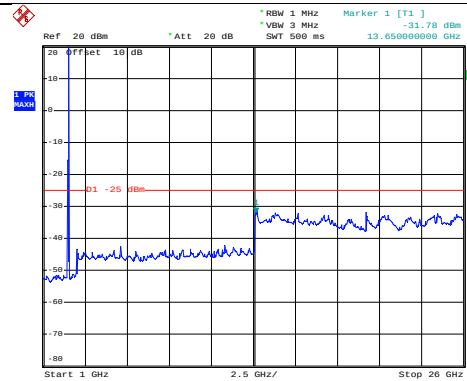
BW: 10MHz

Lowest channel



Date: 26.JUN.2018 11:04:26

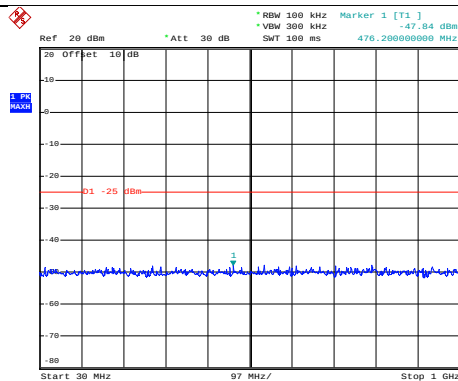
30MHz~1GHz



Date: 26.JUN.2018 11:32:09

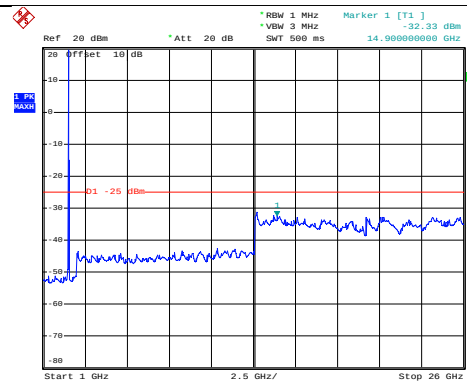
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:05:46

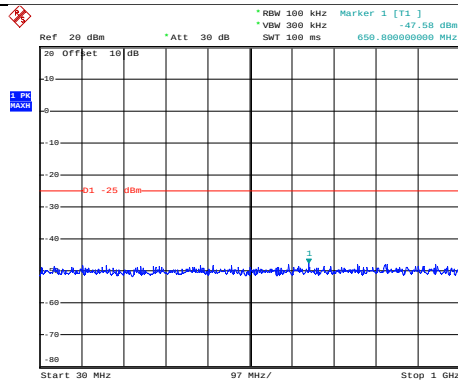
30MHz~1GHz



Date: 26.JUN.2018 11:33:11

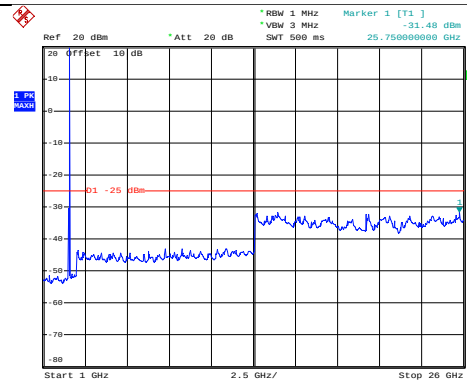
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:06:40

30MHz~1GHz



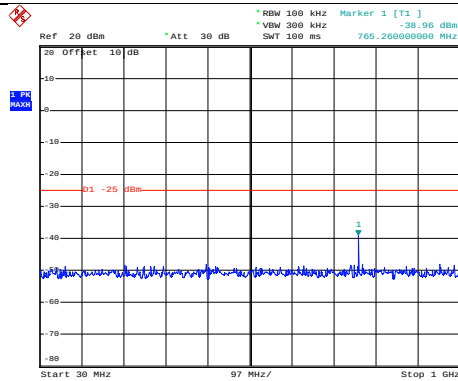
Date: 26.JUN.2018 11:34:10

1GHz~26GHz

LTE Band 7: 16 QAM & RB Size 1

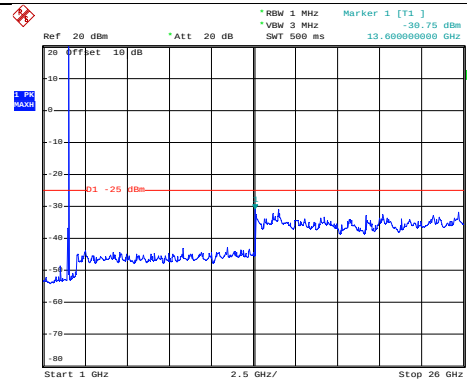
BW: 15MHz

Lowest channel



Date: 26.JUN.2018 11:17:49

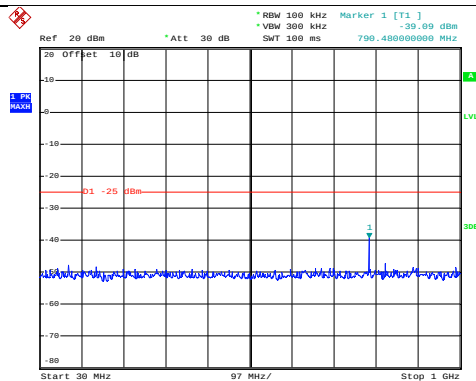
30MHz~1GHz



Date: 26.JUN.2018 11:34:56

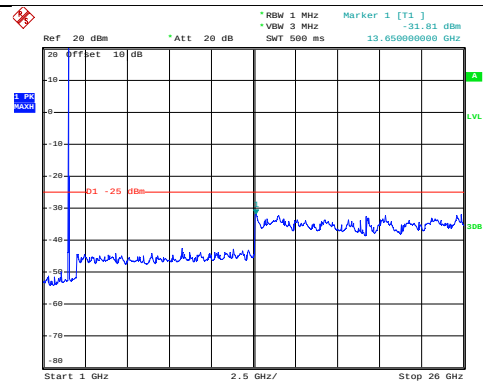
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:19:24

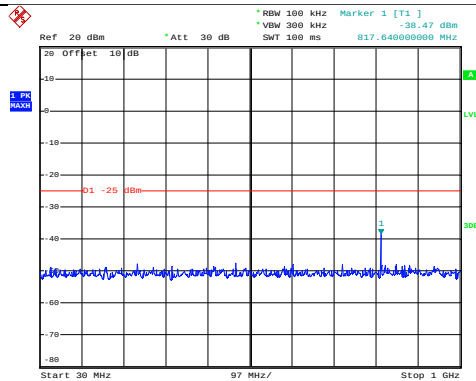
30MHz~1GHz



Date: 26.JUN.2018 11:36:01

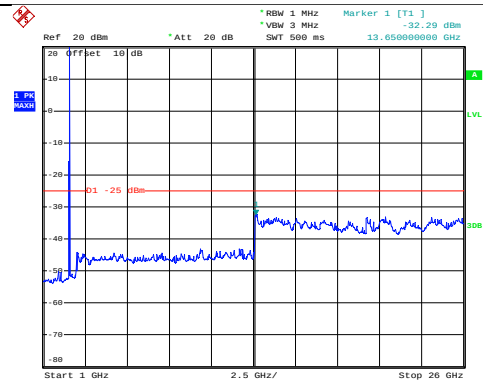
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:21:24

30MHz~1GHz



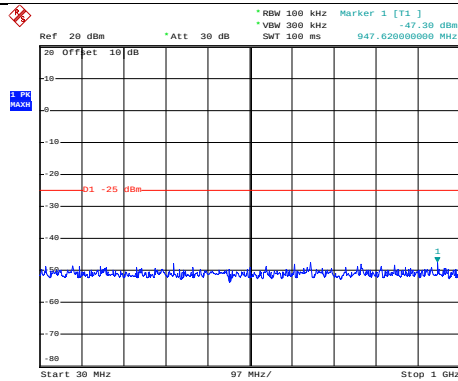
Date: 26.JUN.2018 11:37:00

1GHz~26GHz

LTE Band 7: 16 QAM & RB Size 75

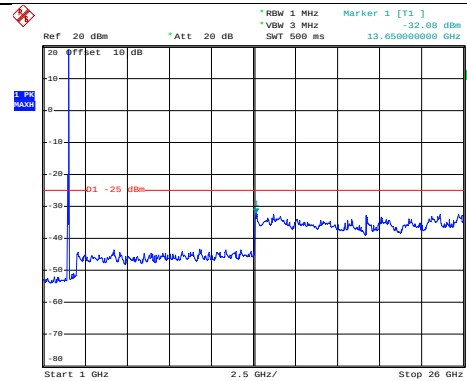
BW: 15MHz

Lowest channel



Date: 26.JUN.2018 11:18:17

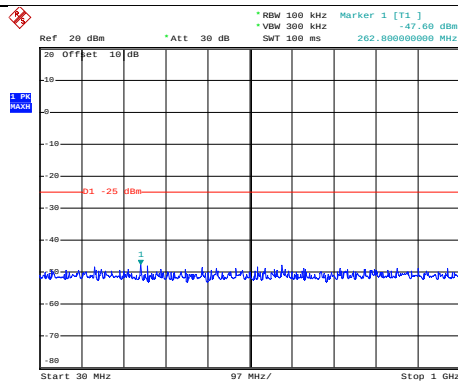
30MHz~1GHz



Date: 26.JUN.2018 11:35:30

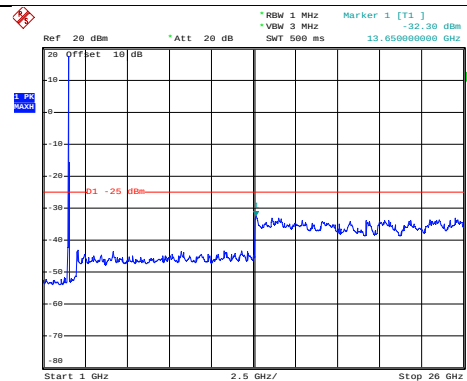
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:19:56

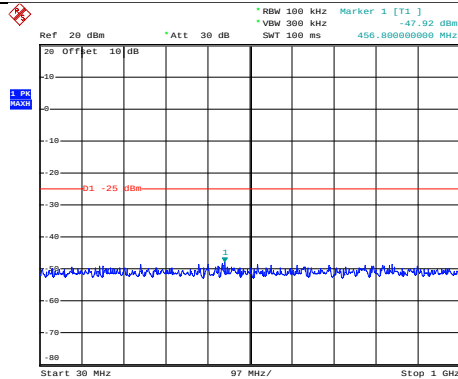
30MHz~1GHz



Date: 26.JUN.2018 11:36:35

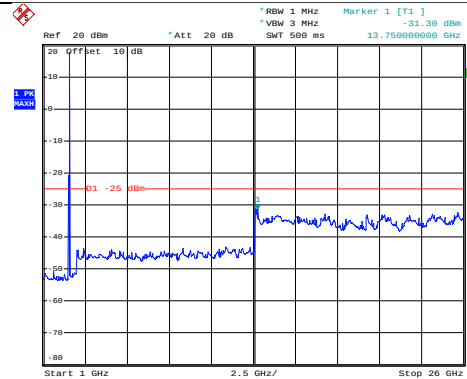
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:21:56

30MHz~1GHz



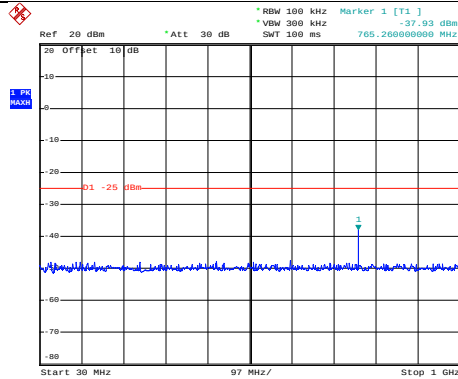
Date: 26.JUN.2018 11:37:40

1GHz~26GHz

LTE Band 7: QPSK & RB Size 1

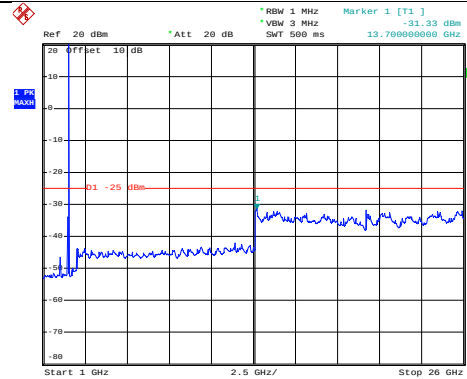
BW: 15MHz

Lowest channel



Date: 26.JUN.2018 11:17:43

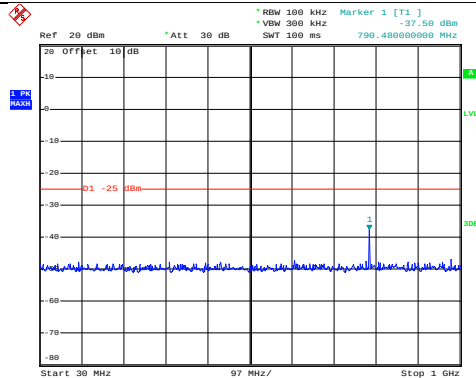
30MHz~1GHz



Date: 26.JUN.2018 11:34:49

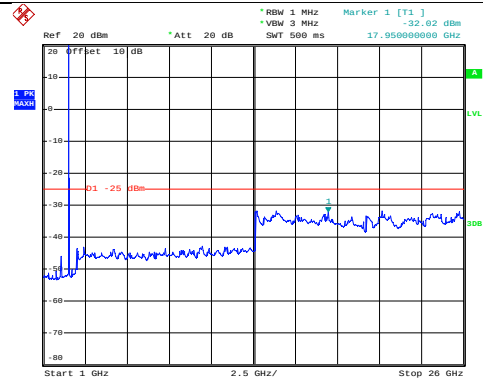
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:19:18

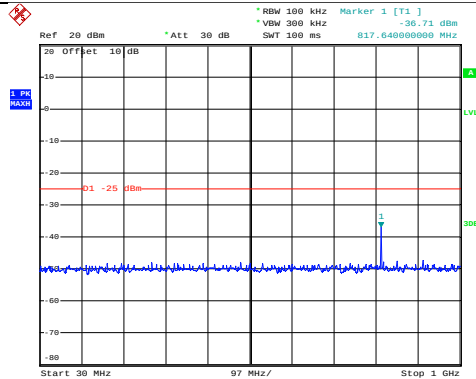
30MHz~1GHz



Date: 26.JUN.2018 11:35:51

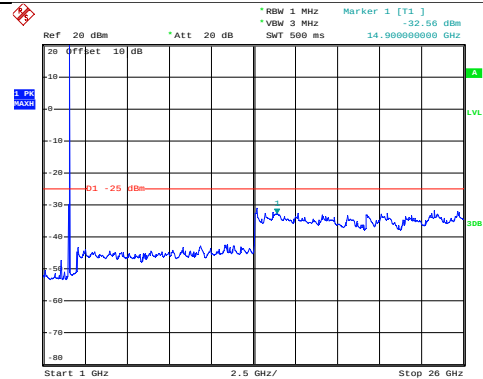
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:21:18

30MHz~1GHz



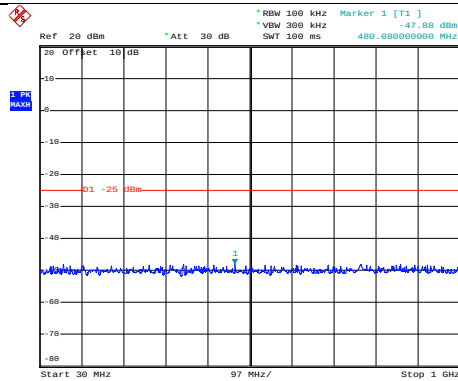
Date: 26.JUN.2018 11:36:53

1GHz~26GHz

LTE Band 7: QPSK & RB Size 75

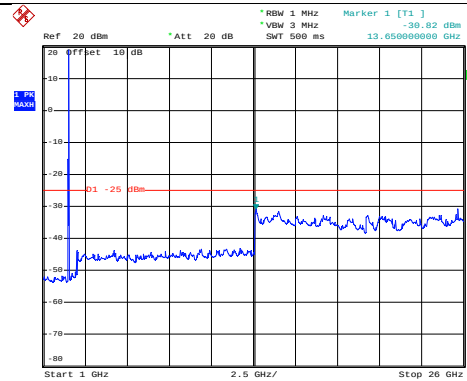
BW: 15MHz

Lowest channel



Date: 26.JUN.2018 11:18:12

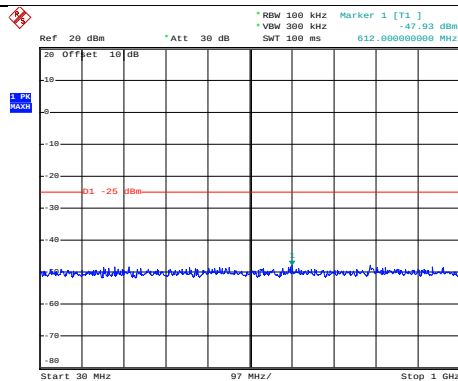
30MHz~1GHz



Date: 26.JUN.2018 11:35:24

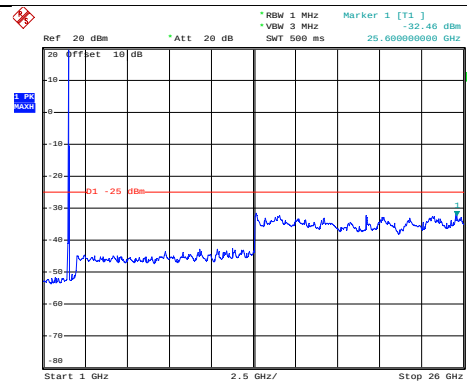
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:19:52

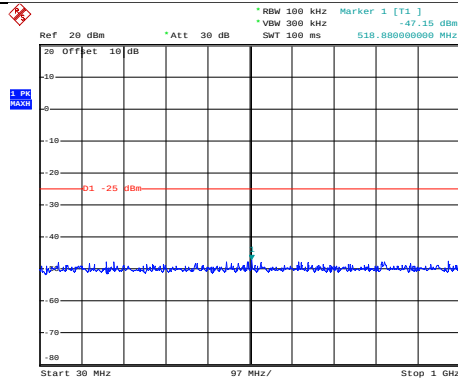
30MHz~1GHz



Date: 26.JUN.2018 11:36:29

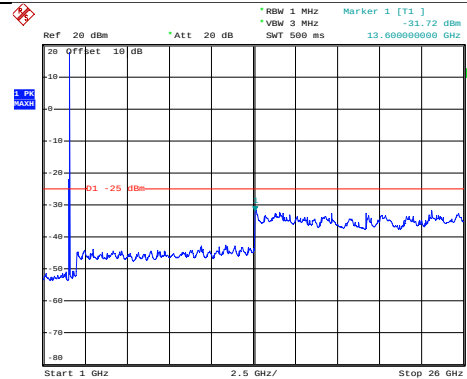
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:21:51

30MHz~1GHz



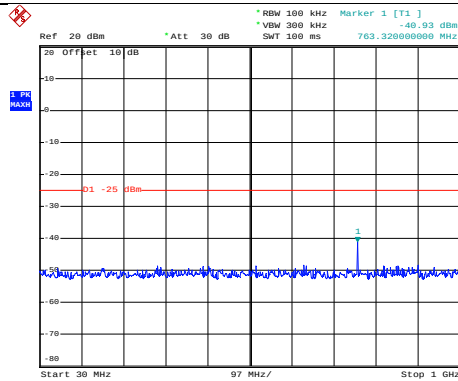
Date: 26.JUN.2018 11:37:32

1GHz~26GHz

LTE Band 7: 16 QAM & RB Size 1

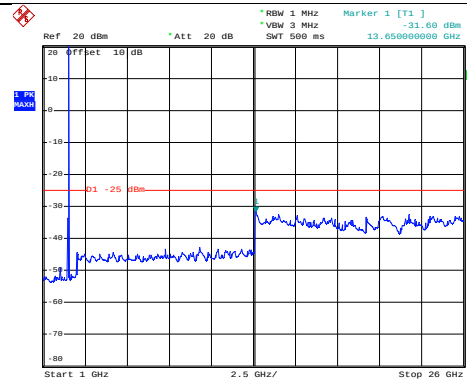
BW: 20MHz

Lowest channel



Date: 26.JUN.2018 11:22:33

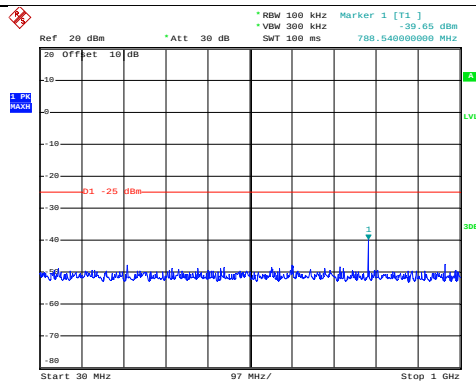
30MHz~1GHz



Date: 26.JUN.2018 11:38:21

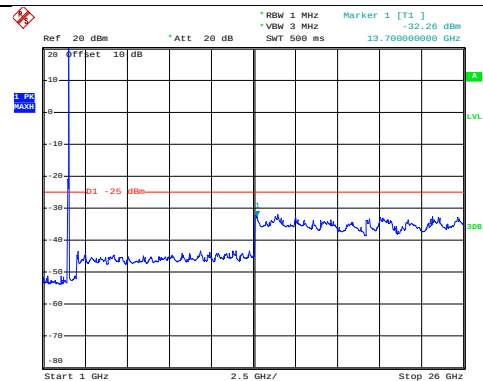
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:23:22

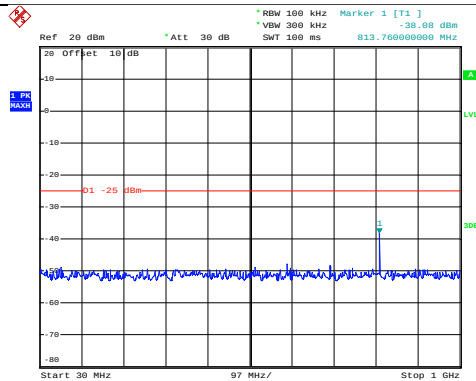
30MHz~1GHz



Date: 26.JUN.2018 11:39:31

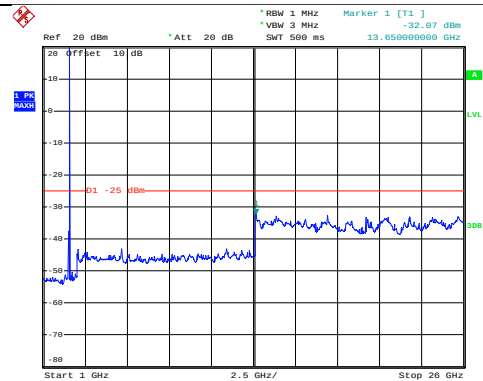
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:24:04

30MHz~1GHz



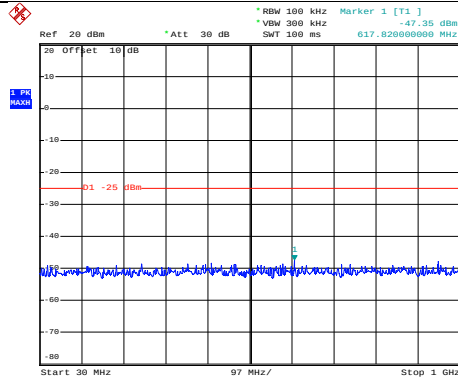
Date: 26.JUN.2018 11:41:17

1GHz~26GHz

LTE Band 7: 16 QAM & RB Size 100

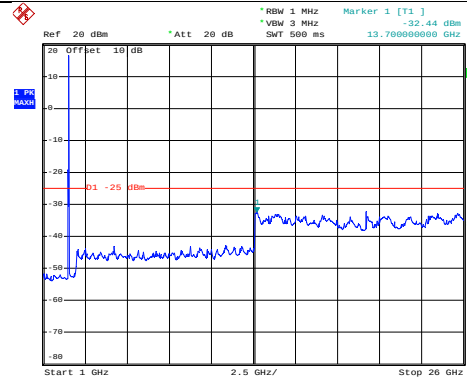
BW: 20MHz

Lowest channel



Date: 26.JUN.2018 11:23:02

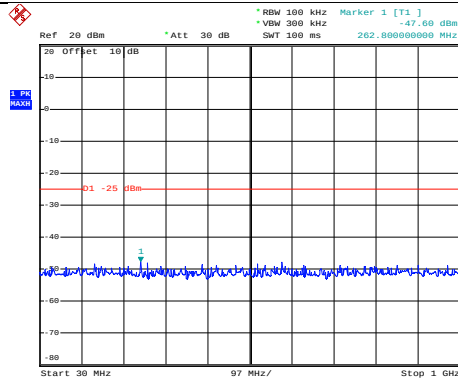
30MHz~1GHz



Date: 26.JUN.2018 11:39:03

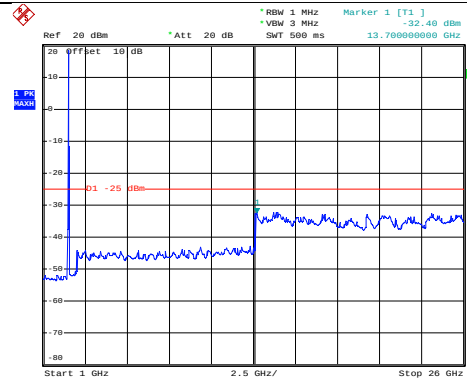
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:19:56

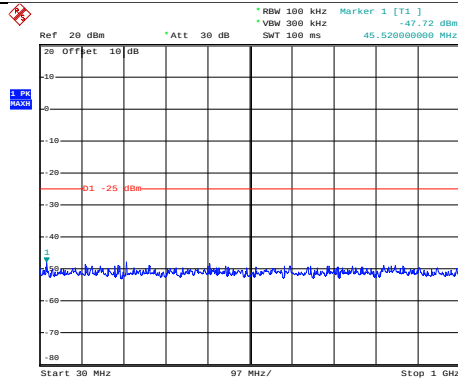
30MHz~1GHz



Date: 26.JUN.2018 11:40:46

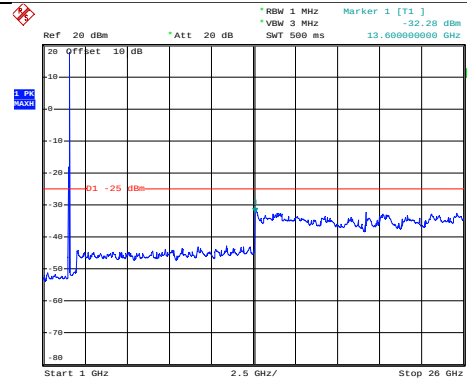
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:24:41

30MHz~1GHz



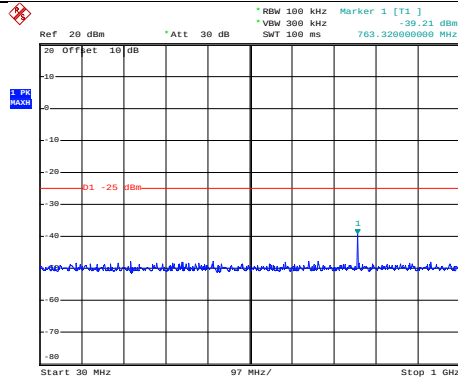
Date: 26.JUN.2018 11:41:46

1GHz~26GHz

LTE Band 7: QPSK & RB Size 1

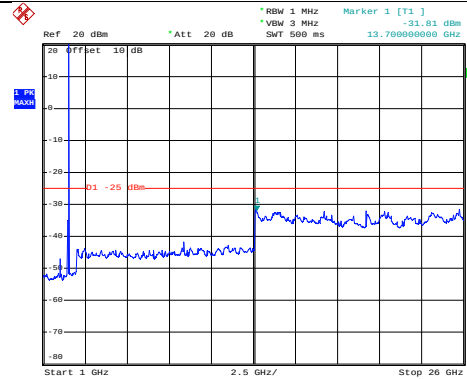
BW: 20MHz

Lowest channel



Date: 26.JUN.2018 11:22:28

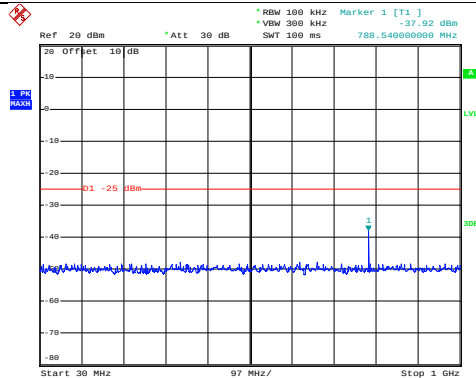
30MHz~1GHz



Date: 26.JUN.2018 11:38:13

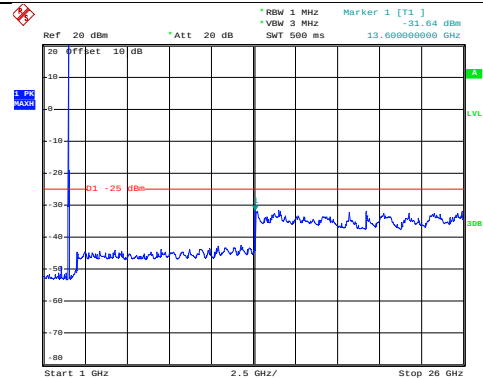
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:23:17

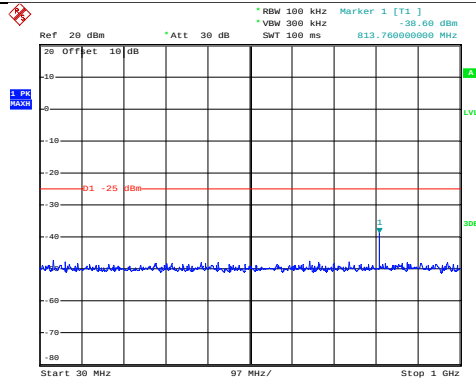
30MHz~1GHz



Date: 26.JUN.2018 11:39:23

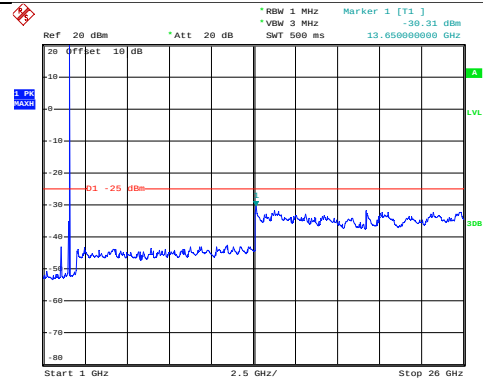
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:23:59

30MHz~1GHz



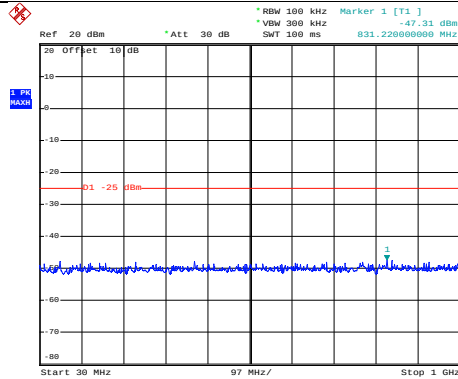
Date: 26.JUN.2018 11:41:10

1GHz~26GHz

LTE Band 7: QPSK & RB Size 100

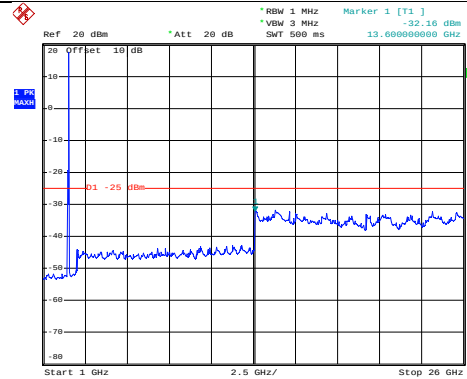
BW: 20MHz

Lowest channel



Date: 26.JUN.2018 11:22:58

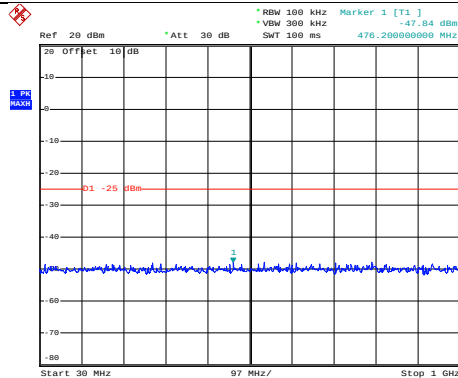
30MHz~1GHz



Date: 26.JUN.2018 11:38:55

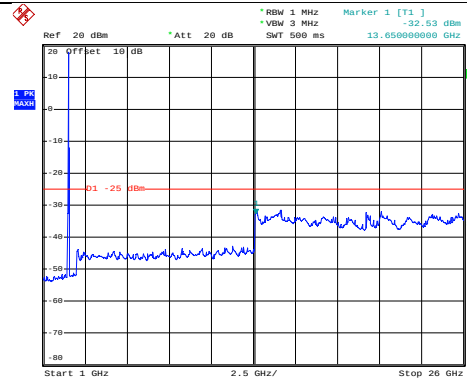
1GHz~26GHz

Middle channel



Date: 26.JUN.2018 11:05:46

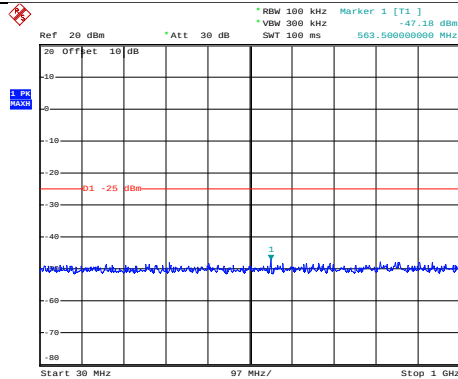
30MHz~1GHz



Date: 26.JUN.2018 11:48:33

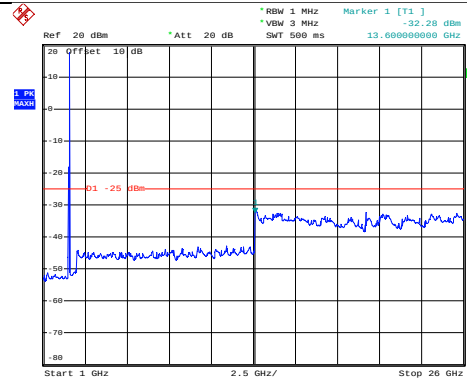
1GHz~26GHz

High channel



Date: 26.JUN.2018 11:24:37

30MHz~1GHz



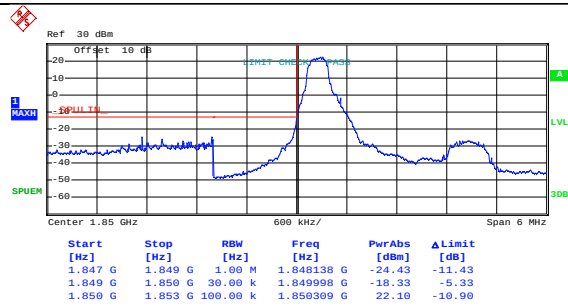
Date: 26.JUN.2018 11:41:46

1GHz~26GHz

Band edge emission:**LTE Band 2 part:**

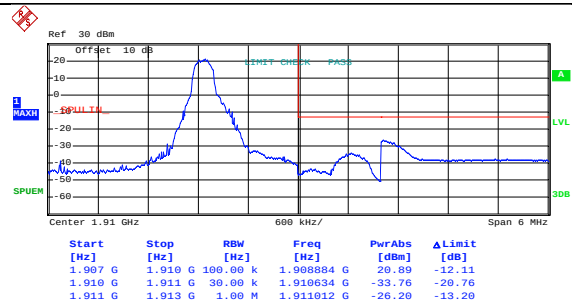
LTE Band 2, BW: 1.4MHz

16QAM & RB Size 1



Date: 25.JUN.2018 09:29:21

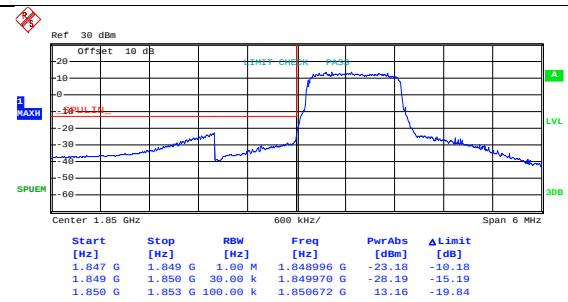
Lowest channel



Date: 25.JUN.2018 09:32:24

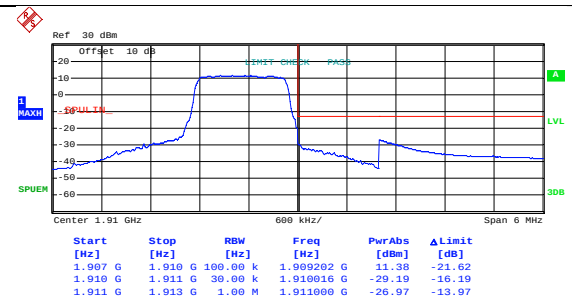
Highest channel

16QAM & RB Size 6



Date: 25.JUN.2018 09:31:39

Lowest channel

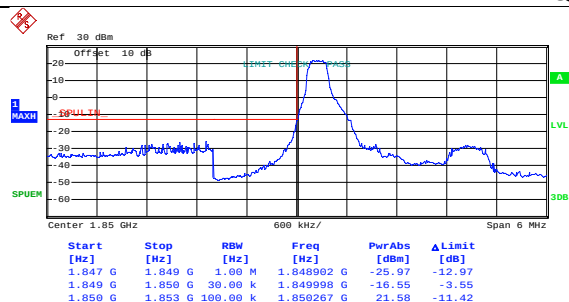


Date: 25.JUN.2018 09:34:26

Highest channel

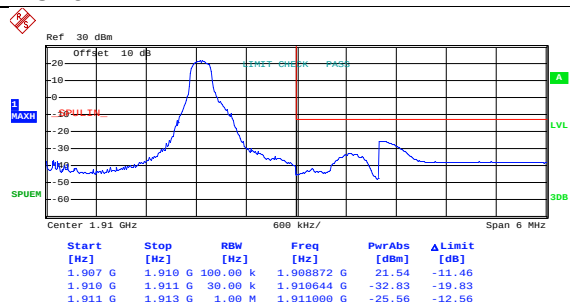
LTE Band 2, BW: 1.4MHz

QPSK & RB Size 1



Date: 25.JUN.2018 09:29:10

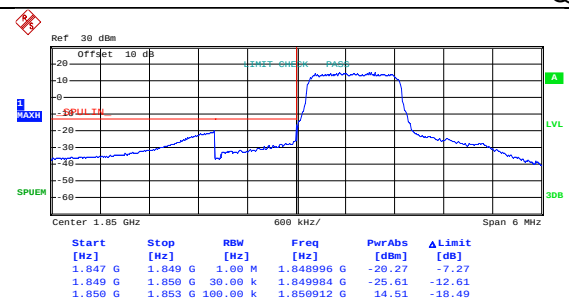
Lowest channel



Date: 25.JUN.2018 09:32:17

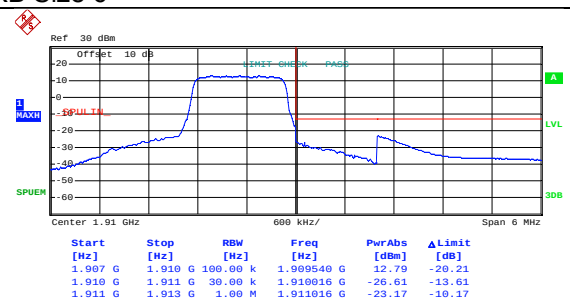
Highest channel

QPSK & RB Size 6



Date: 25.JUN.2018 09:31:31

Lowest channel

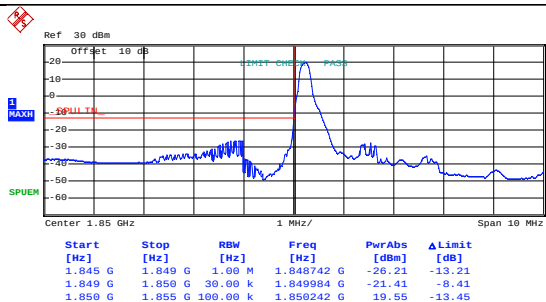


Date: 25.JUN.2018 09:34:20

Highest channel

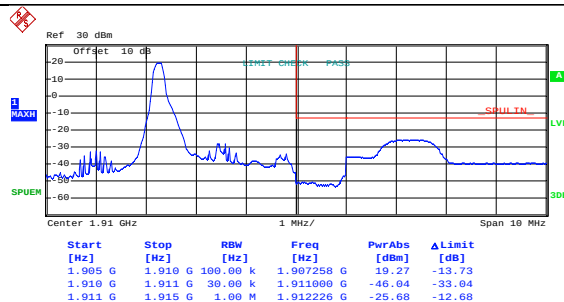
LTE Band 2, BW: 3MHz

16QAM & RB Size 1



Date: 25.JUN.2018 09:36:44

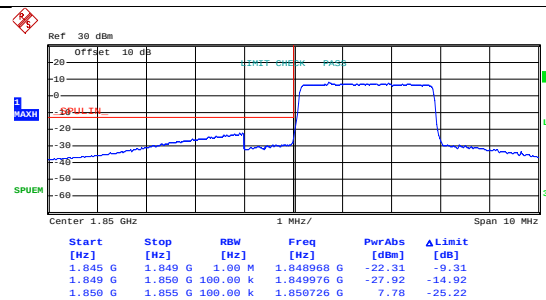
Lowest channel



Date: 25.JUN.2018 09:38:53

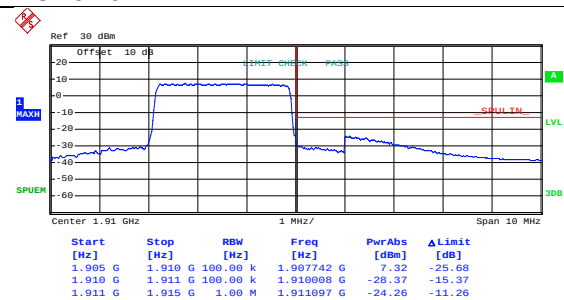
Highest channel

16QAM & RB Size 15



Date: 25.JUN.2018 09:37:37

Lowest channel

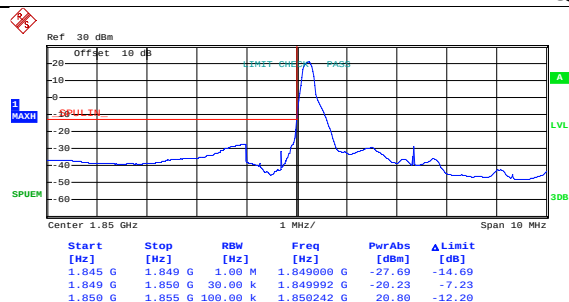


Date: 25.JUN.2018 09:39:52

Highest channel

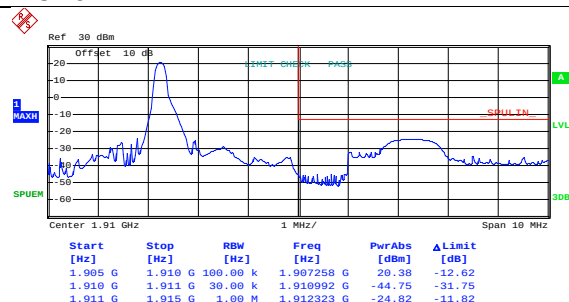
LTE Band 2, BW: 3MHz

QPSK & RB Size 1



Date: 25.JUN.2018 09:36:35

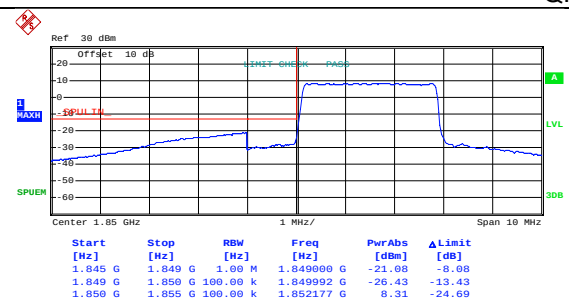
Lowest channel



Date: 25.JUN.2018 09:38:41

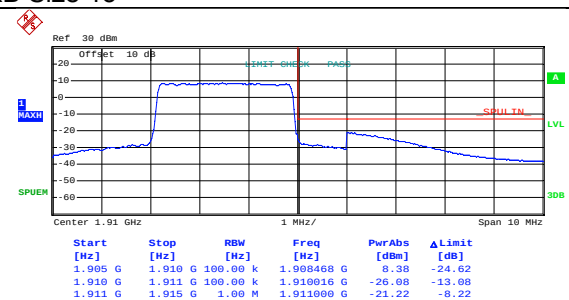
Highest channel

QPSK & RB Size 15



Date: 25.JUN.2018 09:37:27

Lowest channel

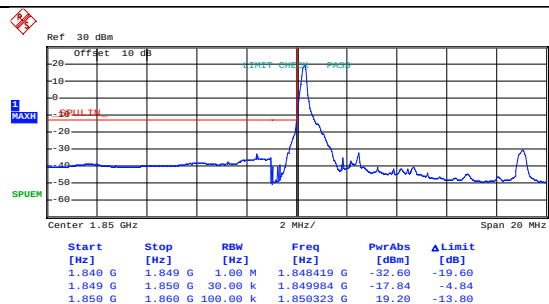


Date: 25.JUN.2018 09:39:46

Highest channel

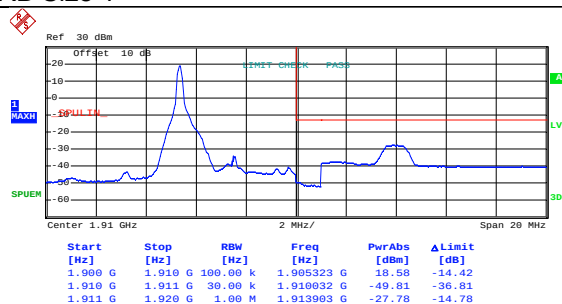
LTE Band 2, BW: 5MHz

16QAM & RB Size 1



Date: 25.JUN.2018 09:41:05

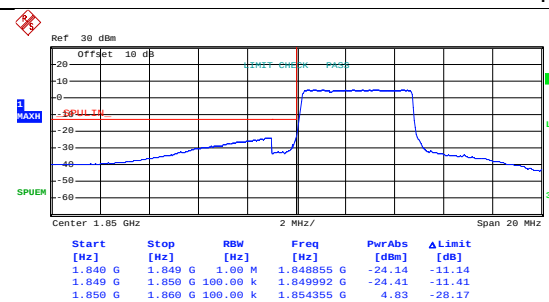
Lowest channel



Date: 25.JUN.2018 09:42:36

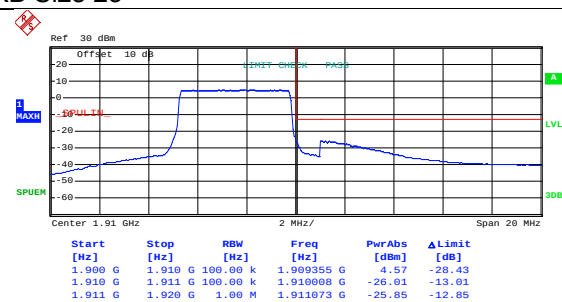
Highest channel

16QAM & RB Size 25



Date: 25.JUN.2018 09:41:47

Lowest channel

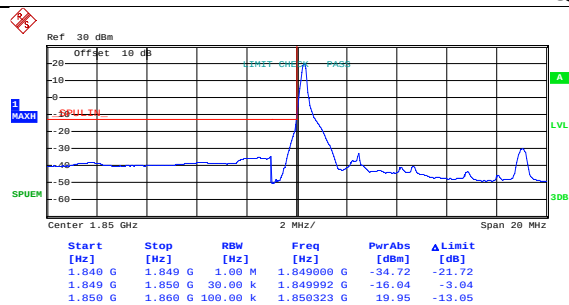


Date: 25.JUN.2018 09:43:40

Highest channel

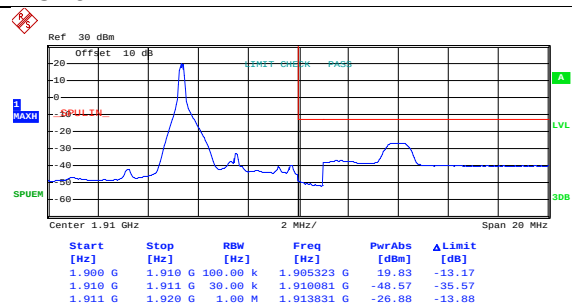
LTE Band 2, BW: 5MHz

QPSK & RB Size 1



Date: 25.JUN.2018 09:40:57

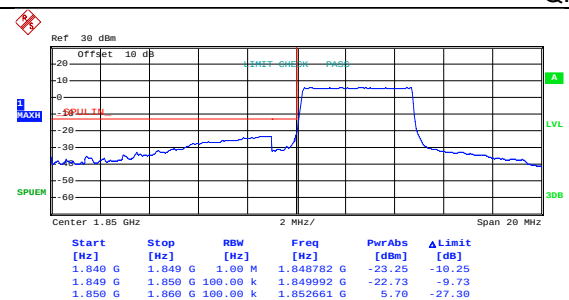
Lowest channel



Date: 25.JUN.2018 09:42:29

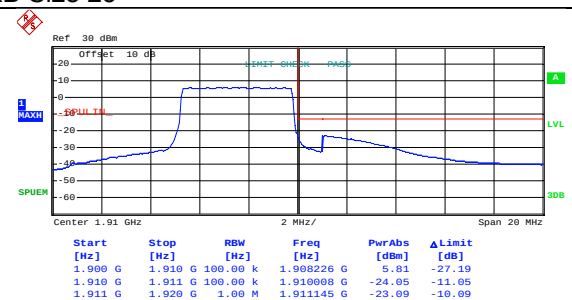
Highest channel

QPSK & RB Size 25



Date: 25.JUN.2018 09:41:41

Lowest channel

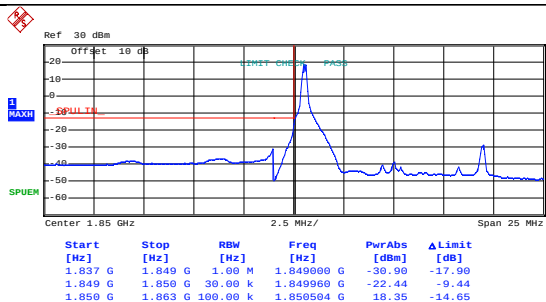


Date: 25.JUN.2018 09:43:33

Highest channel

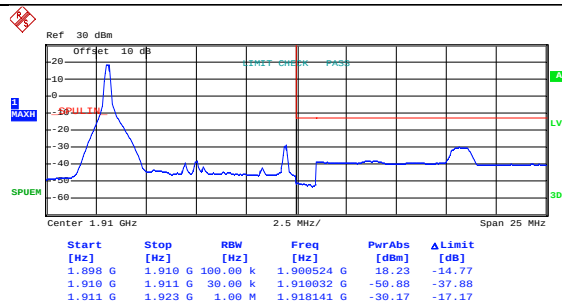
LTE Band 2, BW: 10MHz

16QAM & RB Size 1



Date: 25.JUN.2018 09:44:33

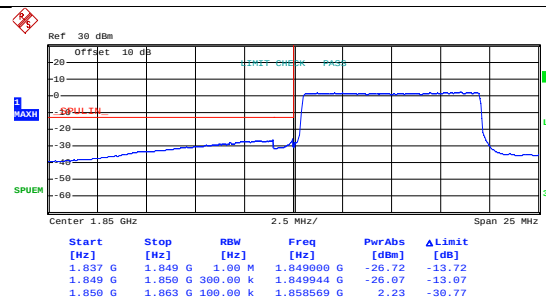
Lowest channel



Date: 25.JUN.2018 09:46:03

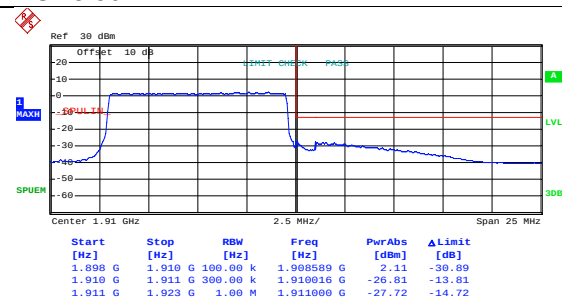
Highest channel

16QAM & RB Size 50



Date: 25.JUN.2018 09:45:28

Lowest channel

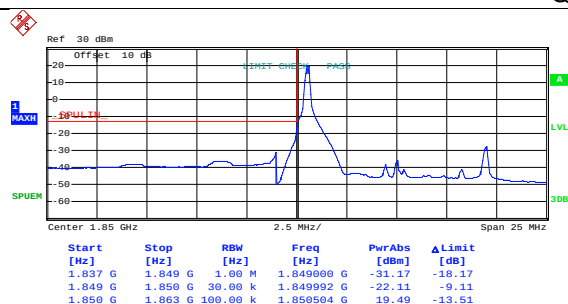


Date: 25.JUN.2018 09:46:59

Highest channel

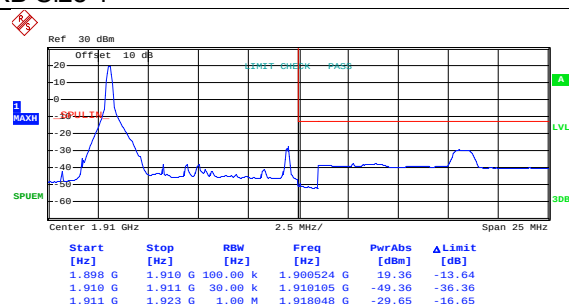
LTE Band 2, BW: 10MHz

QPSK & RB Size 1



Date: 25.JUN.2018 09:44:26

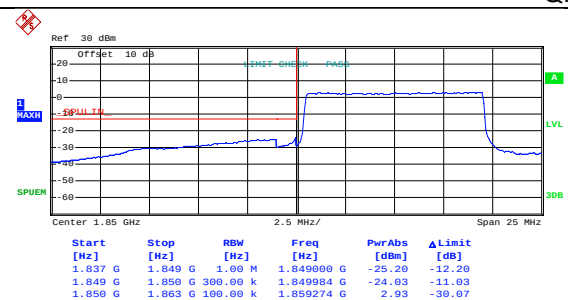
Lowest channel



Date: 25.JUN.2018 09:45:55

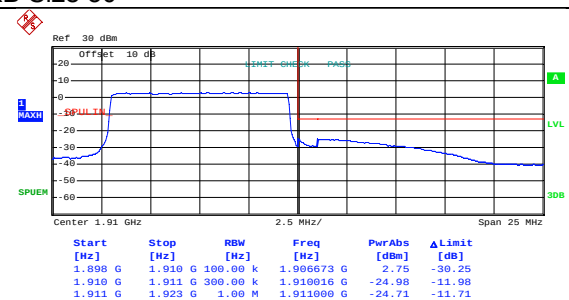
Highest channel

QPSK & RB Size 50



Date: 25.JUN.2018 09:45:22

Lowest channel

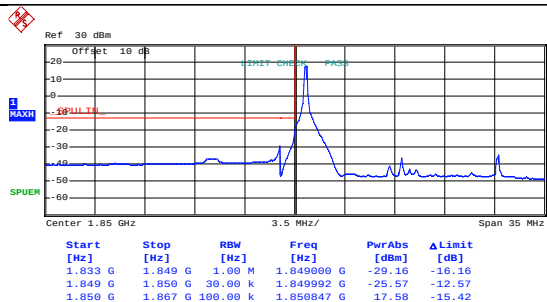


Date: 25.JUN.2018 09:46:52

Highest channel

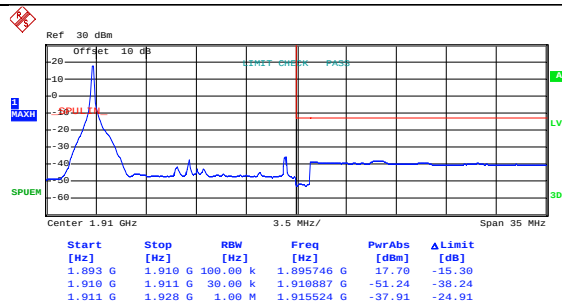
LTE Band 2, BW: 15MHz

16QAM & RB Size 1



Date: 25.JUN.2018 09:48:30

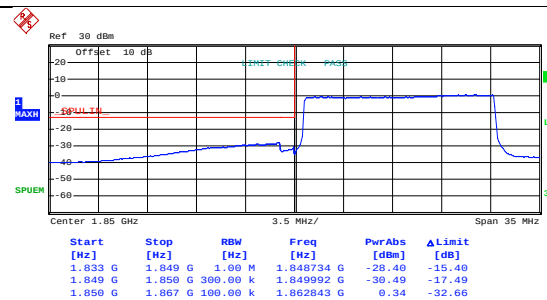
Lowest channel



Date: 25.JUN.2018 09:50:04

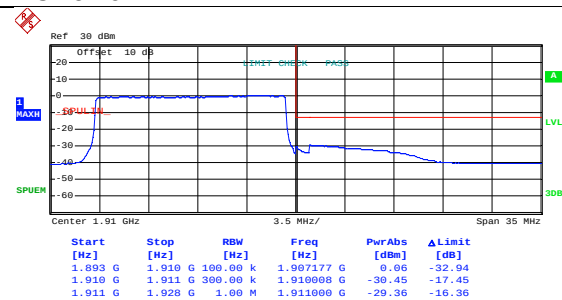
Highest channel

16QAM & RB Size 75



Date: 25.JUN.2018 09:49:16

Lowest channel

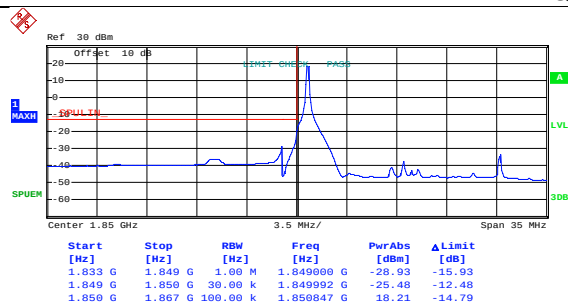


Date: 25.JUN.2018 09:52:01

Highest channel

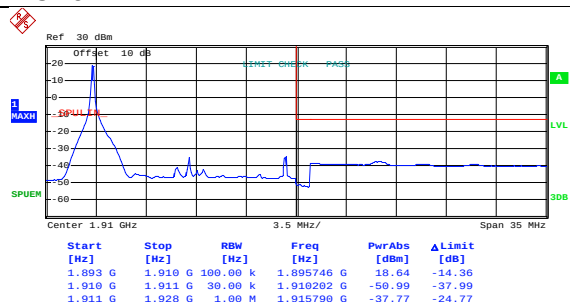
LTE Band 2, BW: 15MHz

QPSK & RB Size 1



Date: 25.JUN.2018 09:48:21

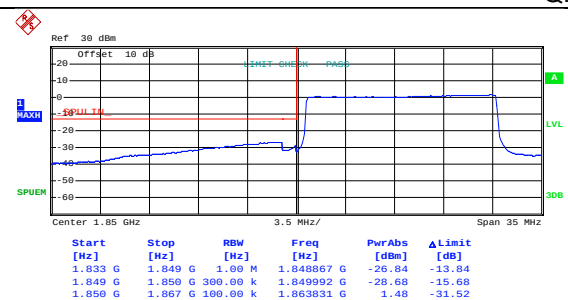
Lowest channel



Date: 25.JUN.2018 09:49:51

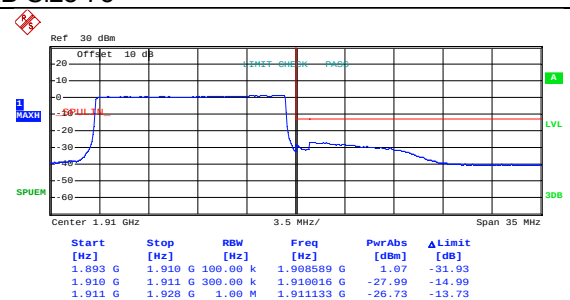
Highest channel

QPSK & RB Size 75



Date: 25.JUN.2018 09:49:09

Lowest channel

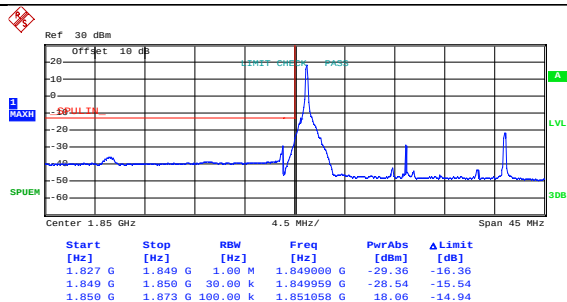


Date: 25.JUN.2018 09:51:53

Highest channel

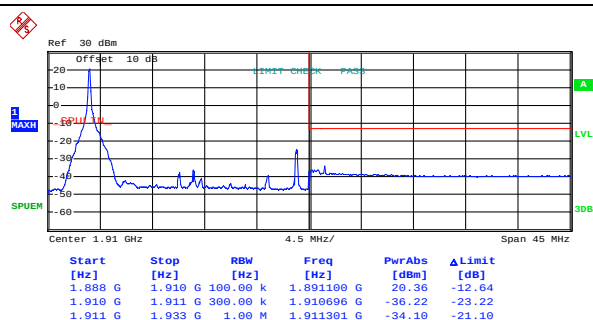
LTE Band 2, BW: 20MHz

16QAM & RB Size 1



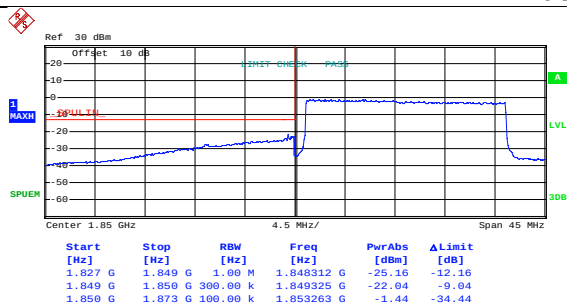
Date: 2.JUL.2018 09:08:07

Lowest channel



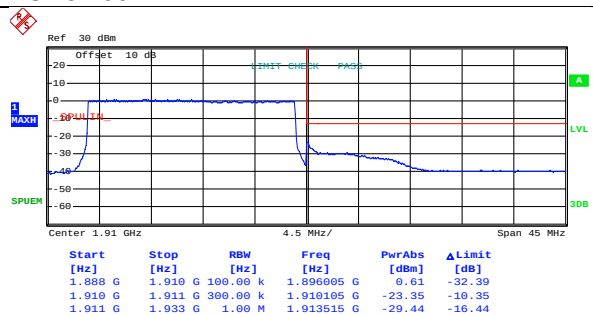
Highest channel

16QAM & RB Size 100



Date: 2.JUL.2018 09:09:08

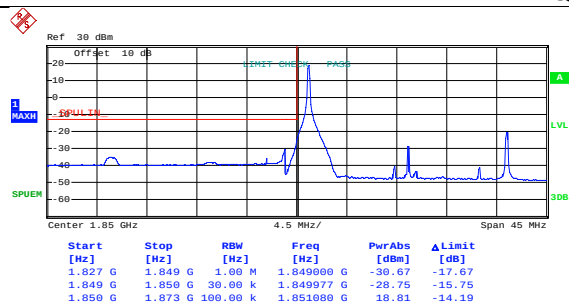
Lowest channel



Highest channel

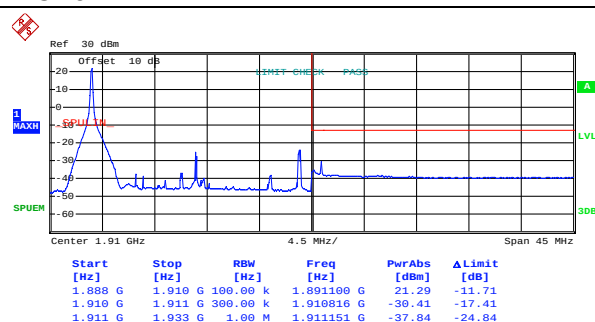
LTE Band 2, BW: 20MHz

QPSK & RB Size 1



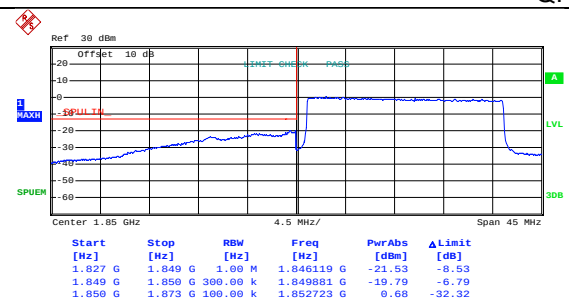
Date: 2.JUL.2018 09:07:57

Lowest channel



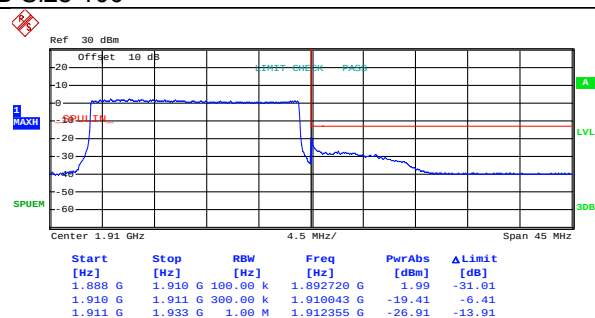
Highest channel

QPSK & RB Size 100



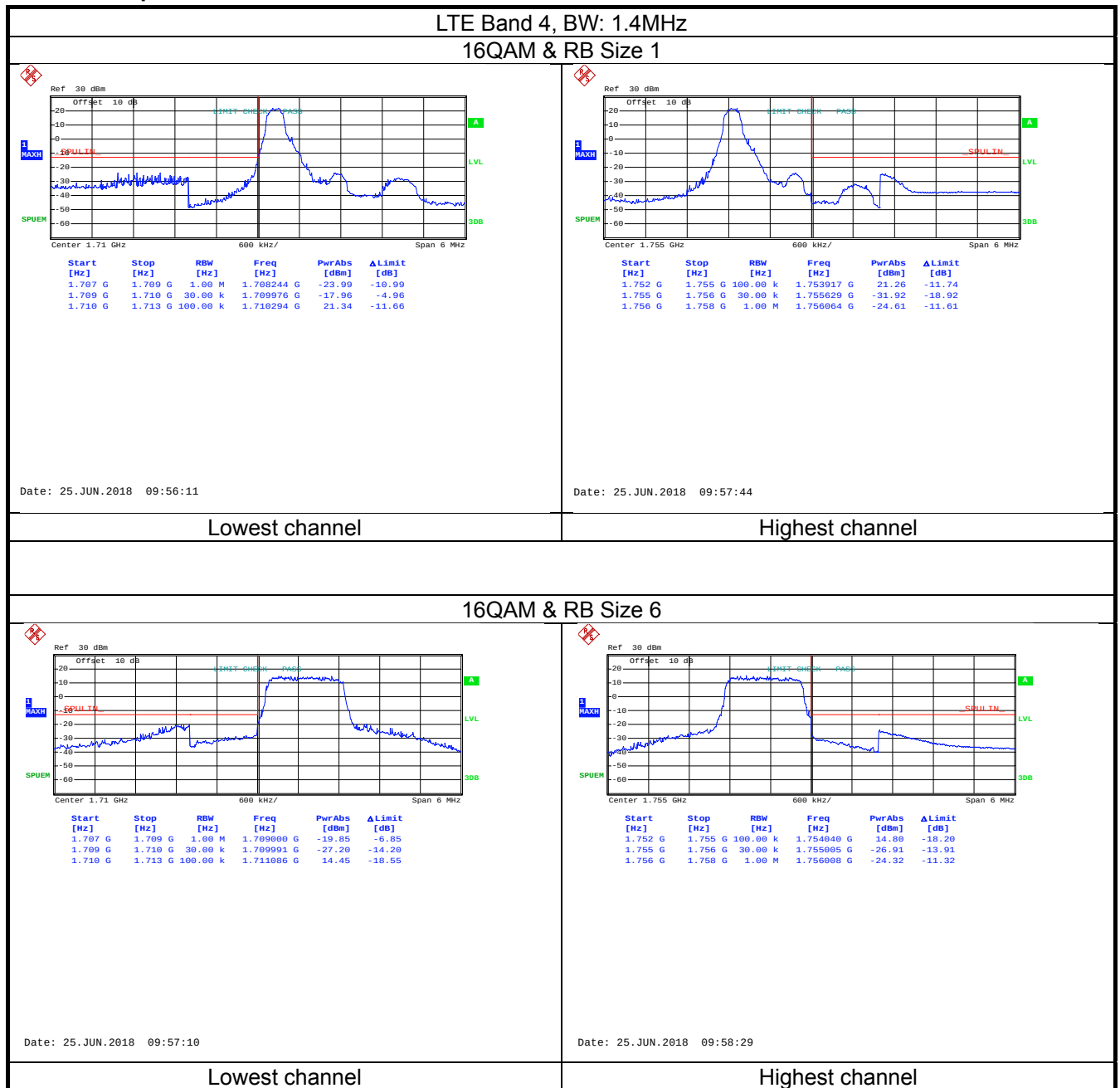
Date: 2.JUL.2018 09:09:01

Lowest channel

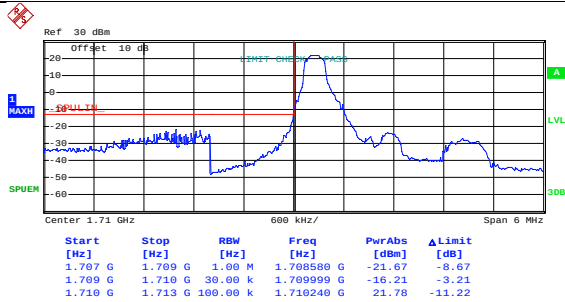


Highest channel

LTE Band 4 part:

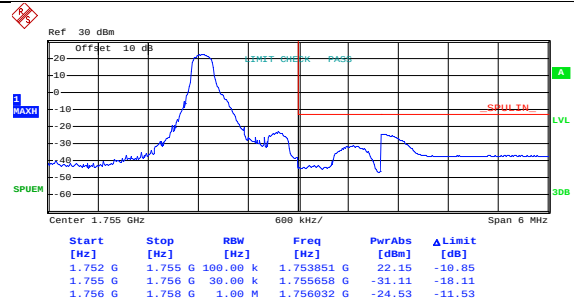


LTE Band 4, BW: 1.4MHz QPSK & RB Size 1



Date: 25.JUN.2018 09:55:59

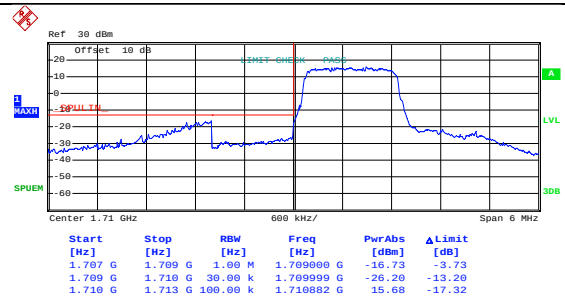
Lowest channel



Date: 25.JUN.2018 09:57:37

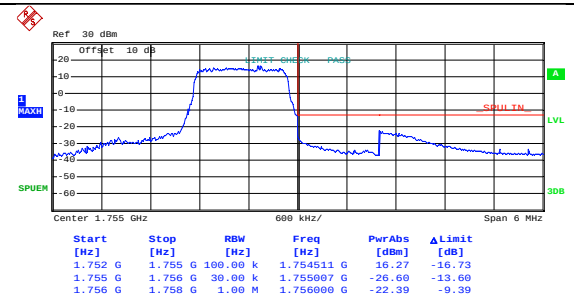
Highest channel

QPSK & RB Size 6



Date: 25.JUN.2018 09:57:02

Lowest channel

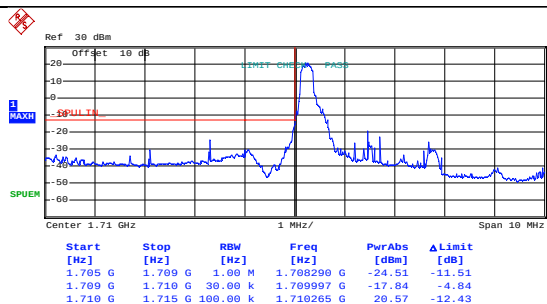


Date: 25.JUN.2018 09:58:22

Highest channel

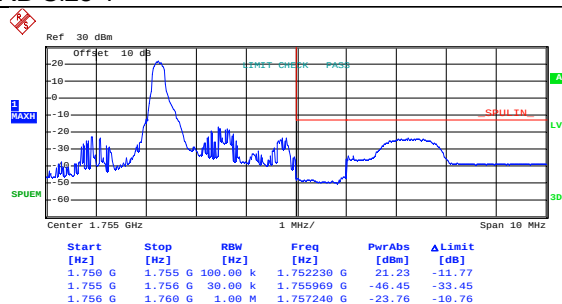
LTE Band 4, BW: 3MHz

16QAM & RB Size 1



Date: 25.JUN.2018 09:59:30

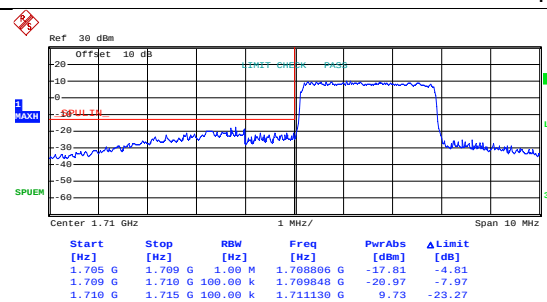
Lowest channel



Date: 25.JUN.2018 10:01:10

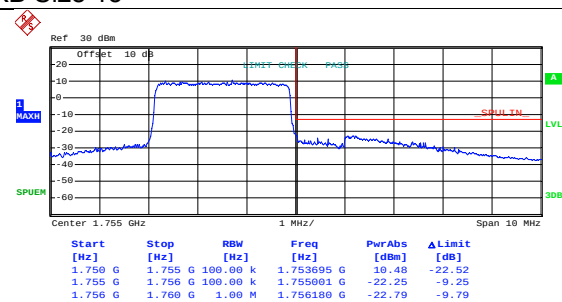
Highest channel

16QAM & RB Size 15



Date: 25.JUN.2018 10:00:24

Lowest channel

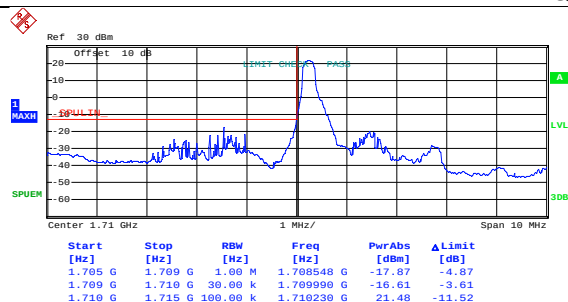


Date: 25.JUN.2018 10:02:24

Highest channel

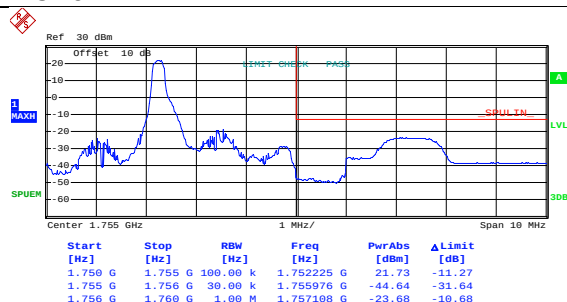
LTE Band 4, BW: 3MHz

QPSK & RB Size 1



Date: 25.JUN.2018 09:59:12

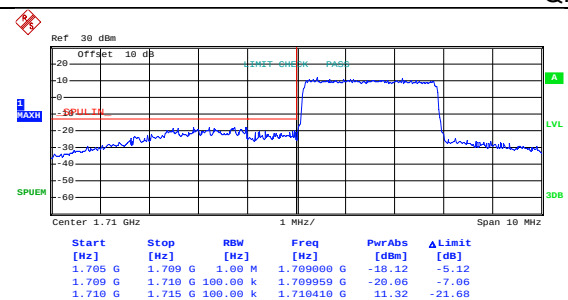
Lowest channel



Date: 25.JUN.2018 10:00:56

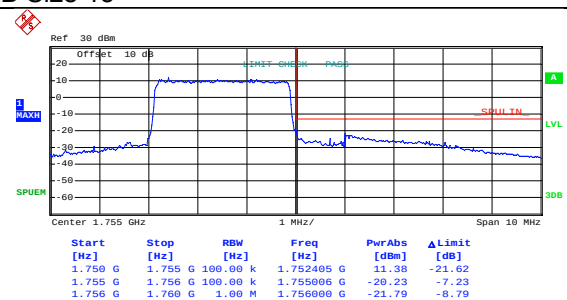
Highest channel

QPSK & RB Size 15



Date: 25.JUN.2018 10:00:16

Lowest channel

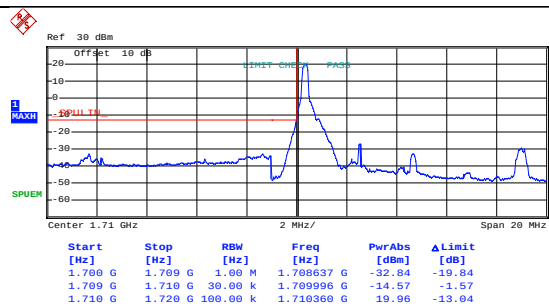


Date: 25.JUN.2018 10:02:16

Highest channel

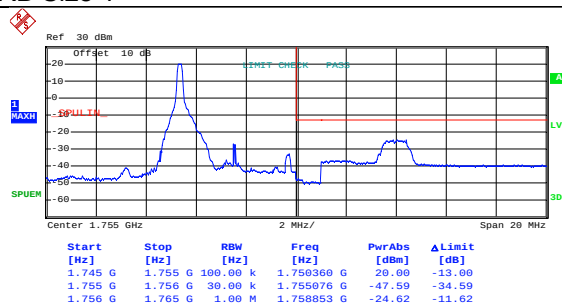
LTE Band 4, BW: 5MHz

16QAM & RB Size 1



Date: 25.JUN.2018 10:04:32

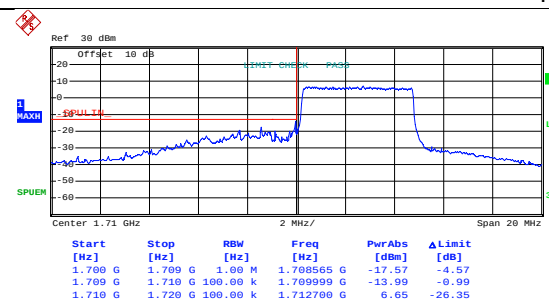
Lowest channel



Date: 25.JUN.2018 10:06:02

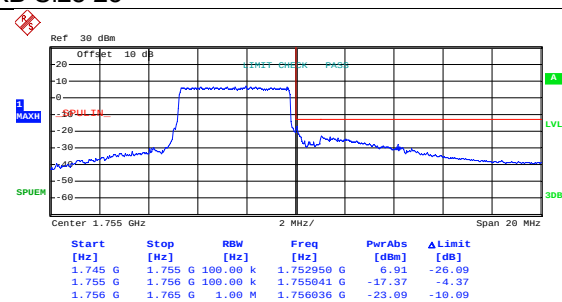
Highest channel

16QAM & RB Size 25



Date: 25.JUN.2018 10:05:30

Lowest channel

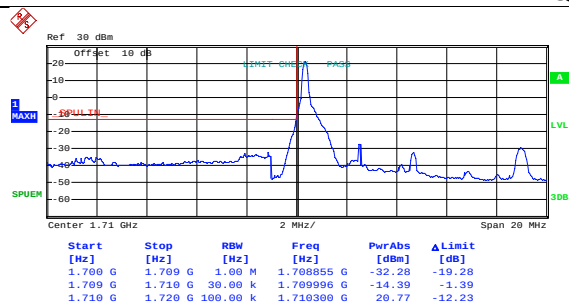


Date: 25.JUN.2018 10:06:56

Highest channel

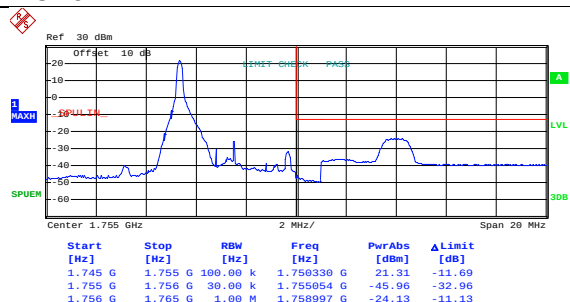
LTE Band 4, BW: 5MHz

QPSK & RB Size 1



Date: 25.JUN.2018 10:04:22

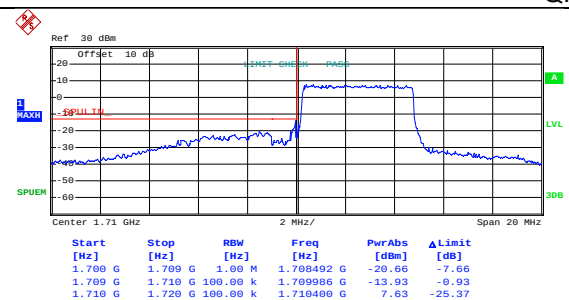
Lowest channel



Date: 25.JUN.2018 10:05:54

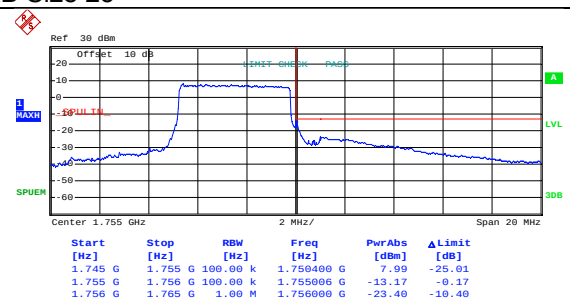
Highest channel

QPSK & RB Size 25



Date: 25.JUN.2018 10:05:23

Lowest channel

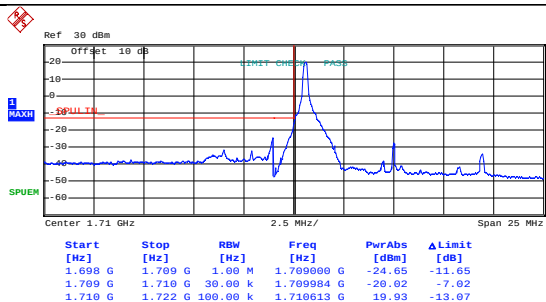


Date: 25.JUN.2018 10:06:49

Highest channel

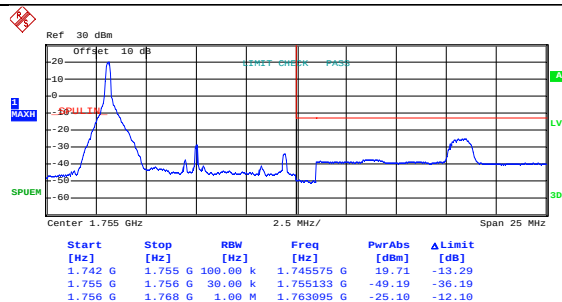
LTE Band 4, BW: 10MHz

16QAM & RB Size 1



Date: 25.JUN.2018 10:07:44

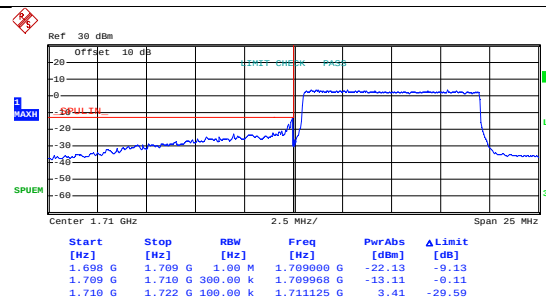
Lowest channel



Date: 25.JUN.2018 10:09:17

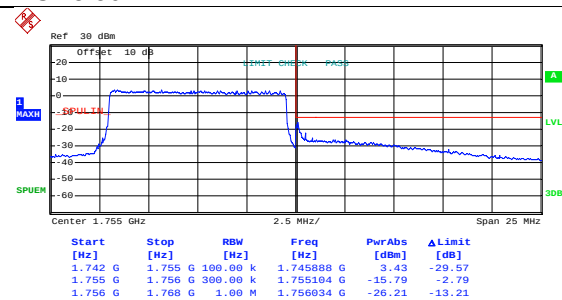
Highest channel

16QAM & RB Size 50



Date: 25.JUN.2018 10:08:42

Lowest channel

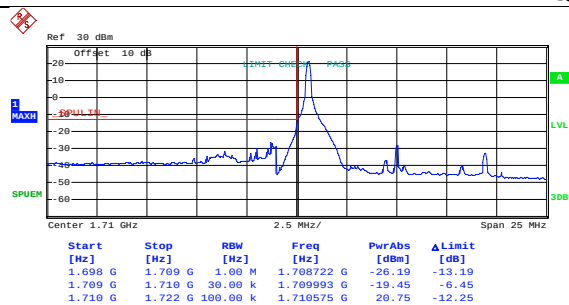


Date: 25.JUN.2018 10:10:05

Highest channel

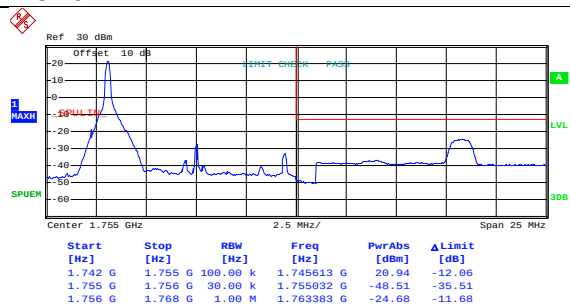
LTE Band 4, BW: 10MHz

QPSK & RB Size 1



Date: 25.JUN.2018 10:07:34

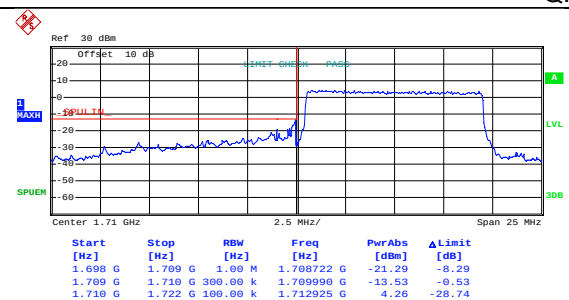
Lowest channel



Date: 25.JUN.2018 10:09:09

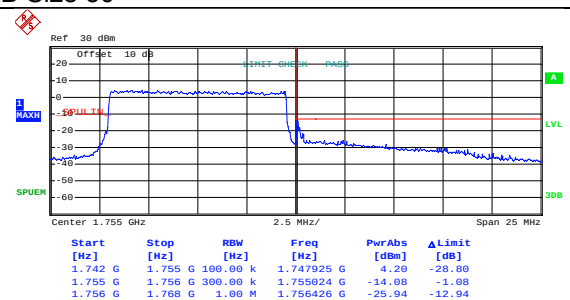
Highest channel

QPSK & RB Size 50



Date: 25.JUN.2018 10:08:35

Lowest channel

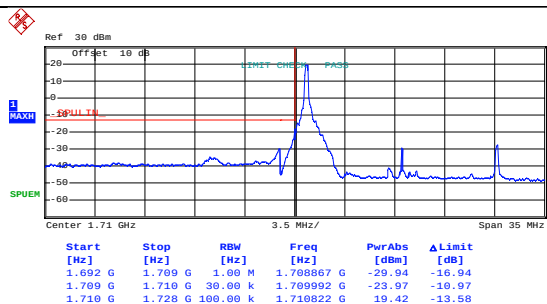


Date: 25.JUN.2018 10:09:57

Highest channel

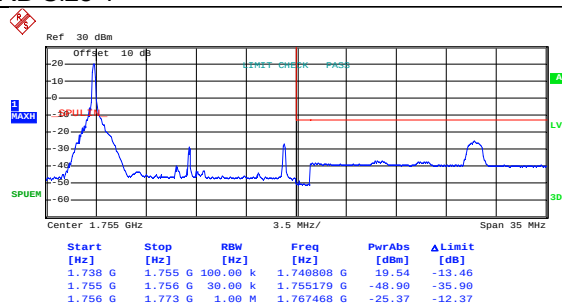
LTE Band 4, BW: 15MHz

16QAM & RB Size 1



Date: 25.JUN.2018 10:10:51

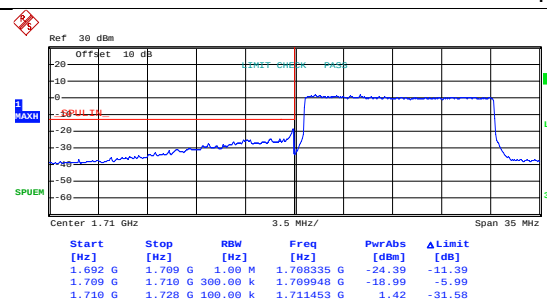
Lowest channel



Date: 25.JUN.2018 10:12:47

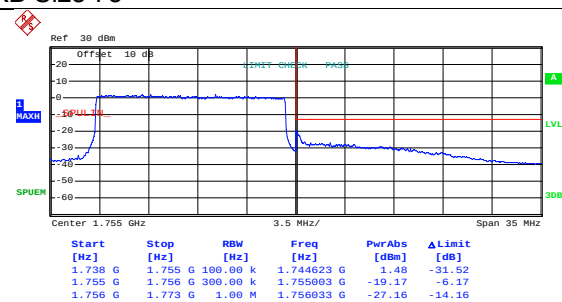
Highest channel

16QAM & RB Size 75



Date: 25.JUN.2018 10:12:04

Lowest channel

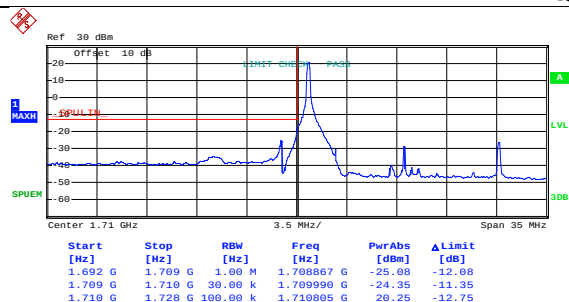


Date: 25.JUN.2018 10:13:31

Highest channel

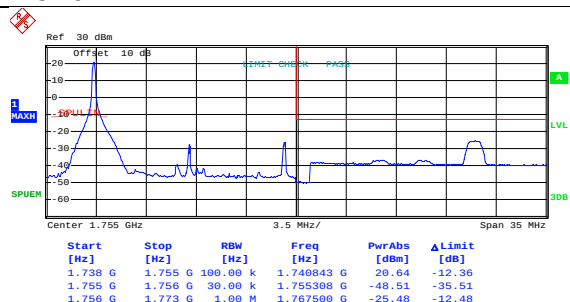
LTE Band 4, BW: 15MHz

QPSK & RB Size 1



Date: 25.JUN.2018 10:10:42

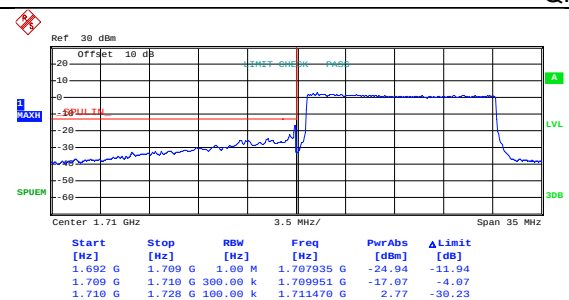
Lowest channel



Date: 25.JUN.2018 10:12:39

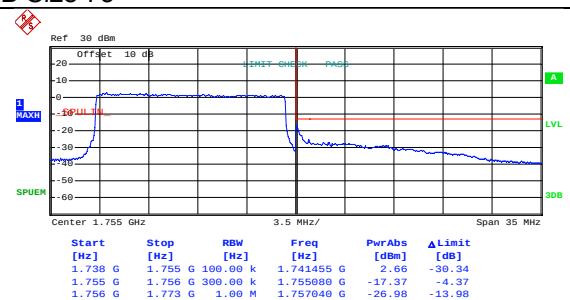
Highest channel

QPSK & RB Size 75



Date: 25.JUN.2018 10:11:56

Lowest channel

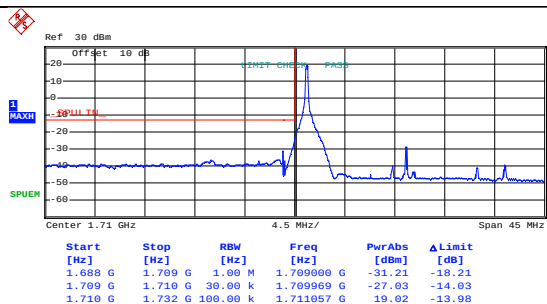


Date: 25.JUN.2018 10:13:23

Highest channel

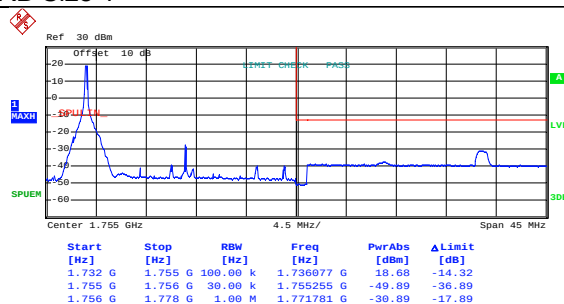
LTE Band 4, BW: 20MHz

16QAM & RB Size 1



Date: 25.JUN.2018 10:14:32

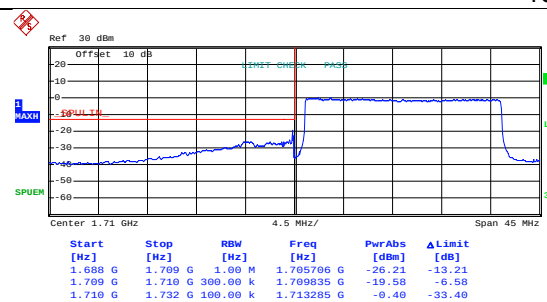
Lowest channel



Date: 25.JUN.2018 10:16:15

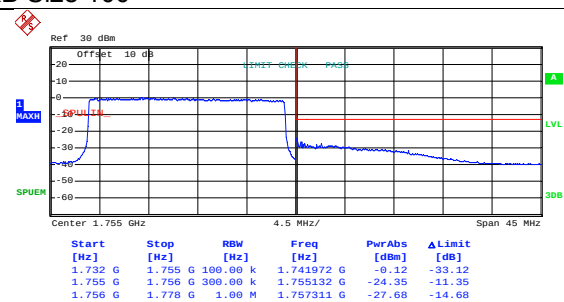
Highest channel

16QAM & RB Size 100



Date: 25.JUN.2018 10:15:19

Lowest channel

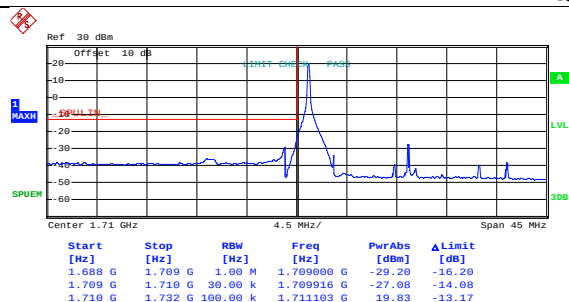


Date: 25.JUN.2018 10:17:10

Highest channel

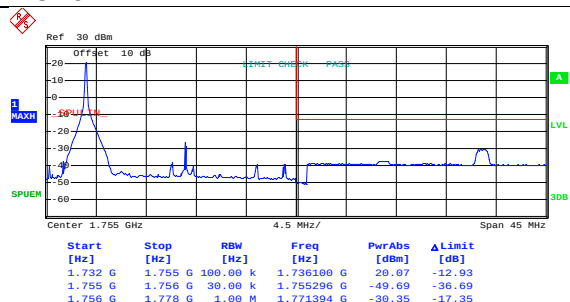
LTE Band 4, BW: 20MHz

QPSK & RB Size 1



Date: 25.JUN.2018 10:14:24

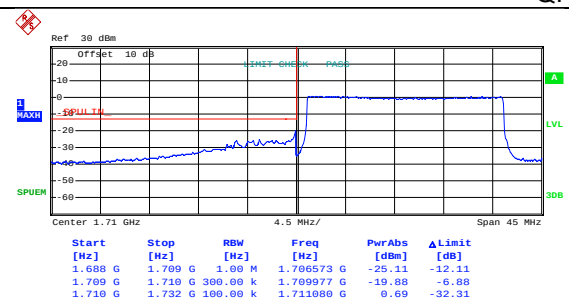
Lowest channel



Date: 25.JUN.2018 10:16:07

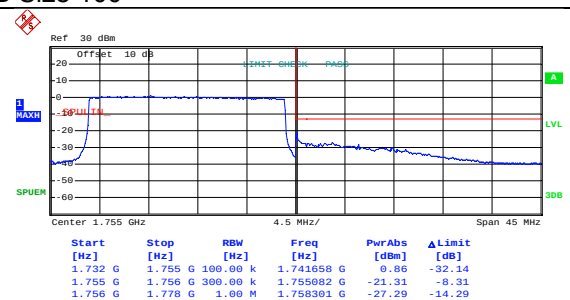
Highest channel

QPSK & RB Size 100



Date: 25.JUN.2018 10:15:12

Lowest channel

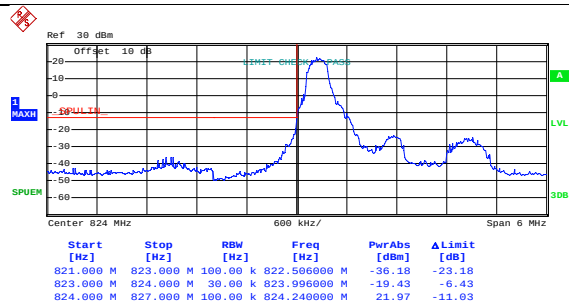


Date: 25.JUN.2018 10:17:02

Highest channel

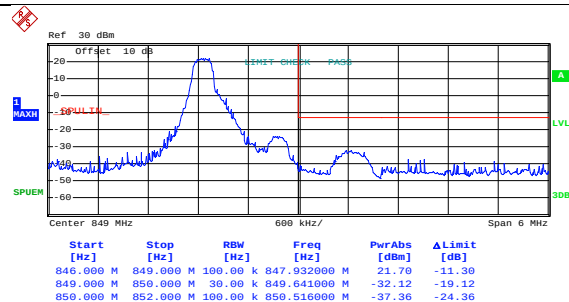
LTE Band 5 part:

LTE Band 5, BW: 1.4MHz 16QAM & RB Size 1



Date: 25.JUN.2018 10:46:36

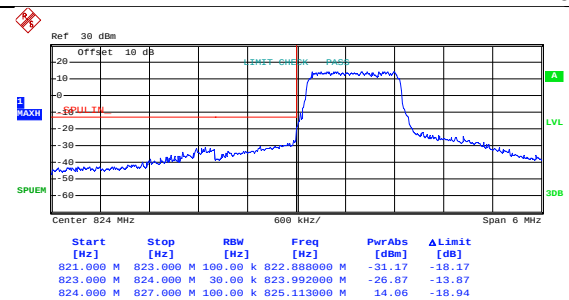
Lowest channel



Date: 25.JUN.2018 10:47:47

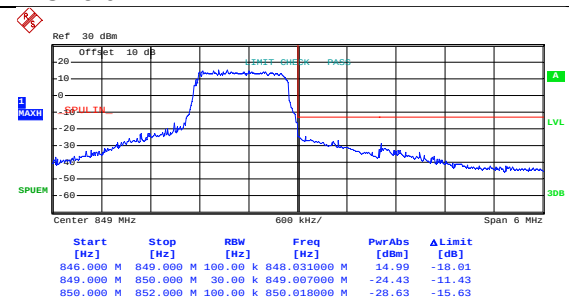
Highest channel

16QAM & RB Size 6



Date: 25.JUN.2018 10:47:11

Lowest channel

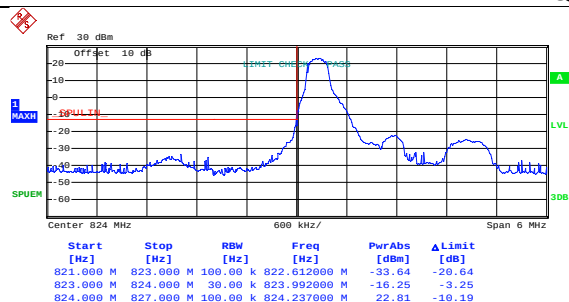


Date: 25.JUN.2018 10:48:25

Highest channel

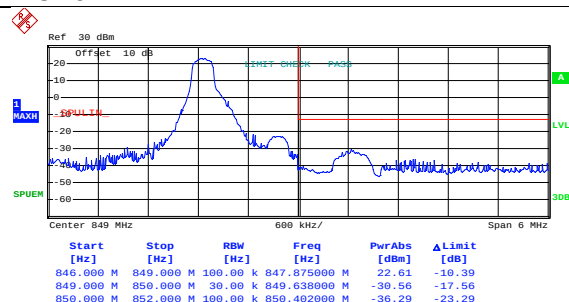
LTE Band 5, BW: 1.4MHz

QPSK & RB Size 1



Date: 25.JUN.2018 10:46:29

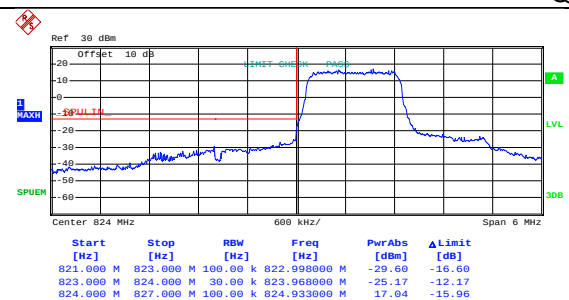
Lowest channel



Date: 25.JUN.2018 10:47:40

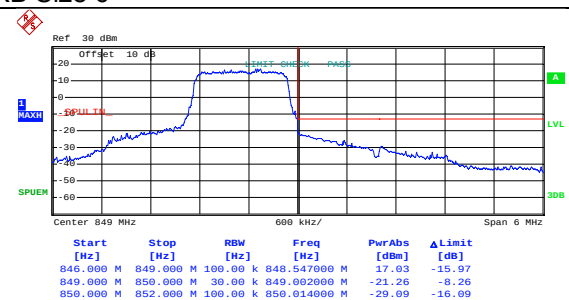
Highest channel

QPSK & RB Size 6



Date: 25.JUN.2018 10:47:04

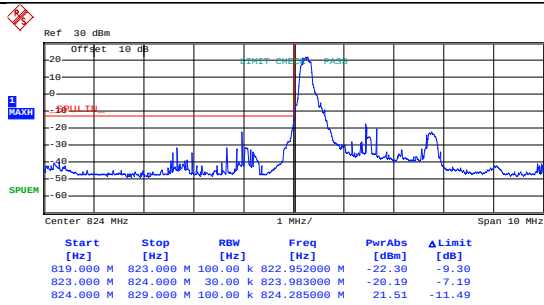
Lowest channel



Date: 25.JUN.2018 10:48:18

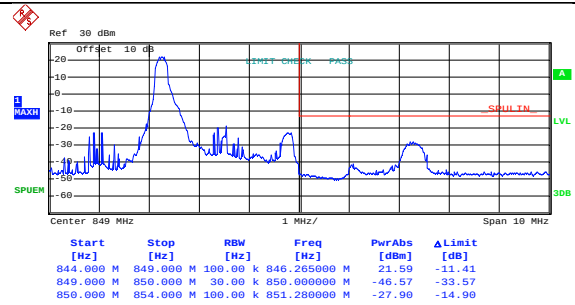
Highest channel

LTE Band 5, BW: 3MHz 16QAM & RB Size 1



Date: 25.JUN.2018 10:52:18

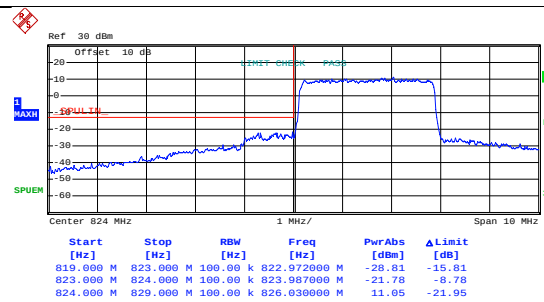
Lowest channel



Date: 25.JUN.2018 10:53:54

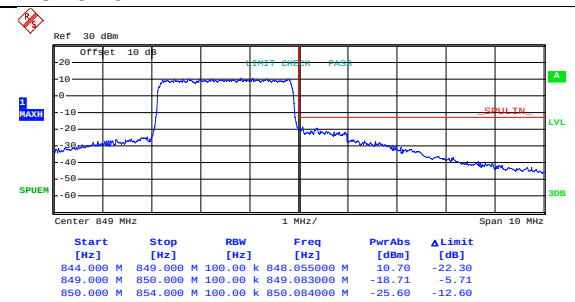
Highest channel

16QAM & RB Size 15



Date: 25.JUN.2018 10:53:08

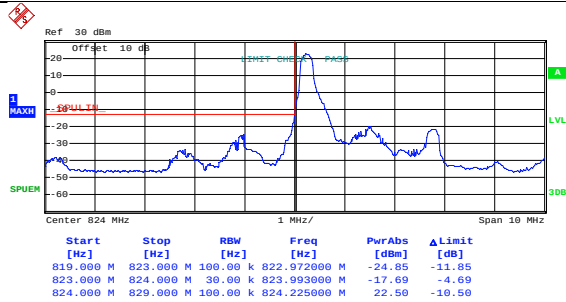
Lowest channel



Date: 25.JUN.2018 10:55:44

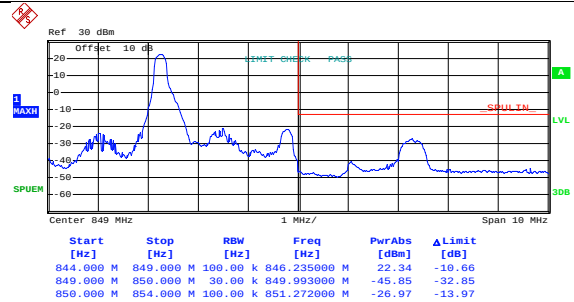
Highest channel

LTE Band 5, BW: 3MHz QPSK & RB Size 1



Date: 25.JUN.2018 10:52:06

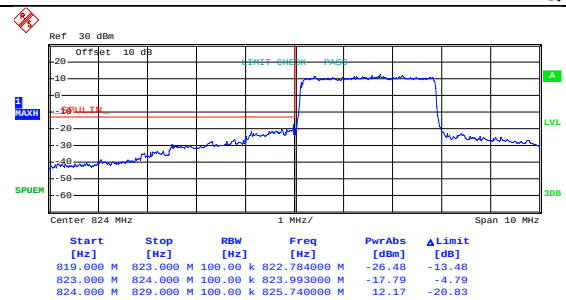
Lowest channel



Date: 25.JUN.2018 10:53:46

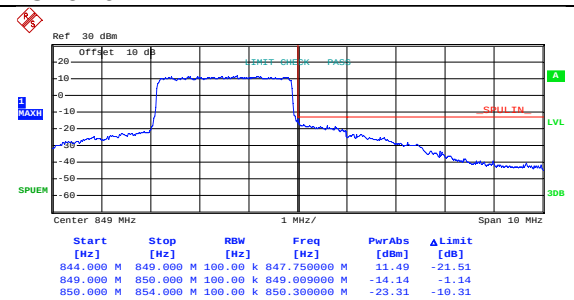
Highest channel

QPSK & RB Size 15



Date: 25.JUN.2018 10:53:02

Lowest channel

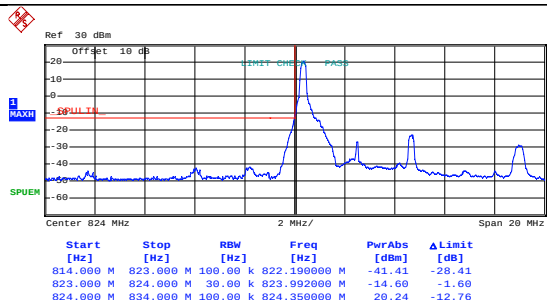


Date: 25.JUN.2018 10:55:35

Highest channel

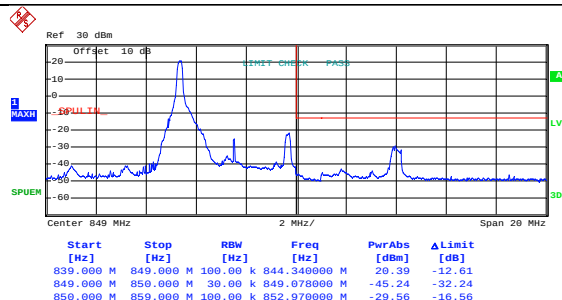
LTE Band 5, BW: 5MHz

16QAM & RB Size 1



Date: 25.JUN.2018 10:56:56

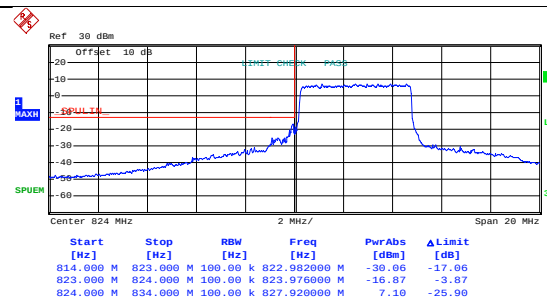
Lowest channel



Date: 25.JUN.2018 10:58:22

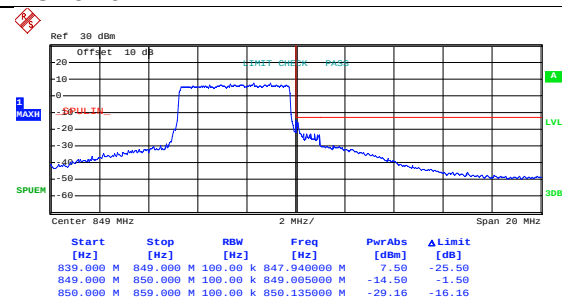
Highest channel

16QAM & RB Size 25



Date: 25.JUN.2018 10:57:50

Lowest channel

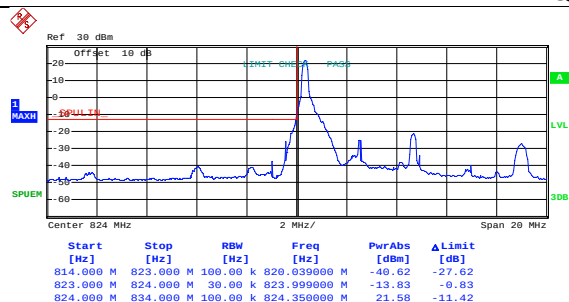


Date: 25.JUN.2018 10:59:17

Highest channel

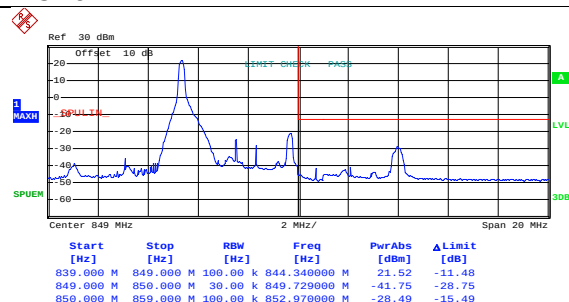
LTE Band 5, BW: 5MHz

QPSK & RB Size 1



Date: 25.JUN.2018 10:56:49

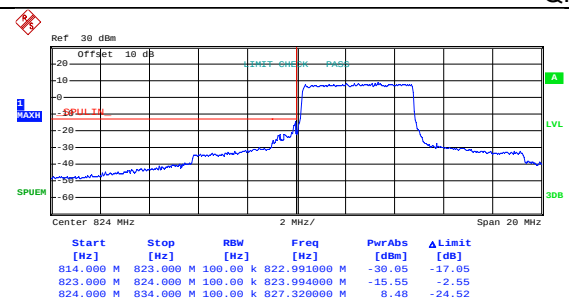
Lowest channel



Date: 25.JUN.2018 10:58:14

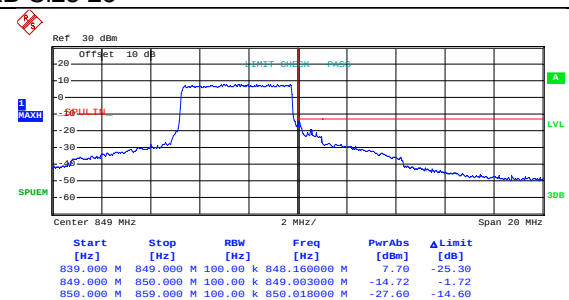
Highest channel

QPSK & RB Size 25



Date: 25.JUN.2018 10:57:42

Lowest channel

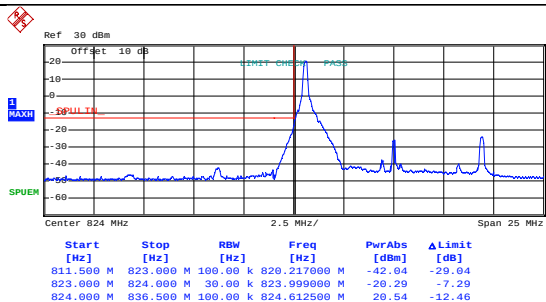


Date: 25.JUN.2018 10:59:08

Highest channel

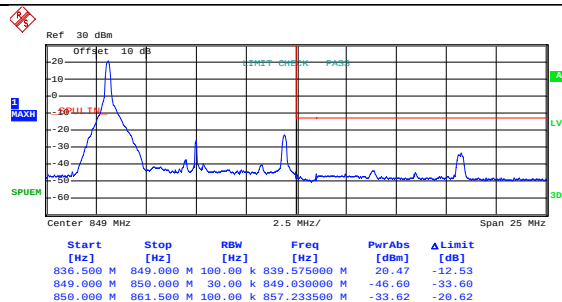
LTE Band 5, BW: 10MHz

16QAM & RB Size 1



Date: 25.JUN.2018 11:00:39

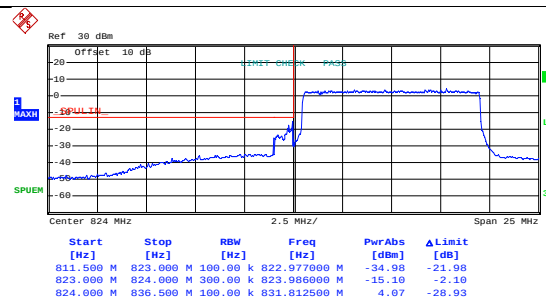
Lowest channel



Date: 25.JUN.2018 11:02:26

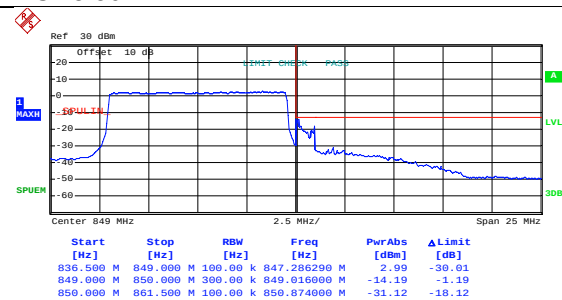
Highest channel

16QAM & RB Size 50



Date: 25.JUN.2018 11:01:38

Lowest channel

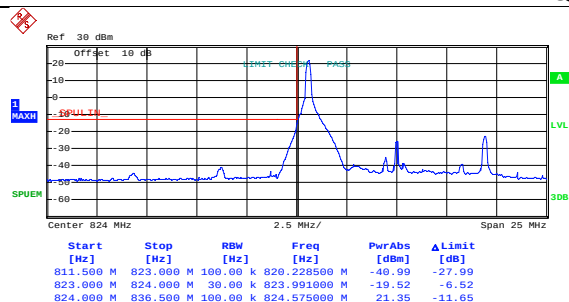


Date: 25.JUN.2018 11:04:14

Highest channel

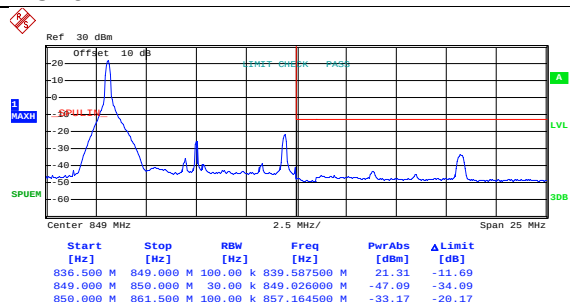
LTE Band 5, BW: 10MHz

QPSK & RB Size 1



Date: 25.JUN.2018 11:00:31

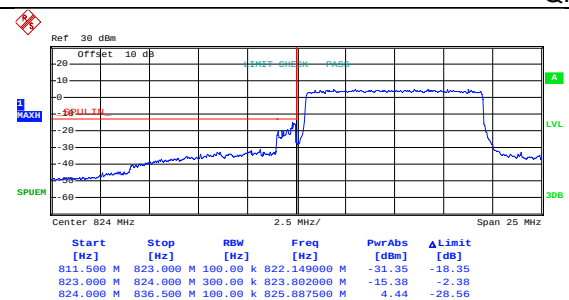
Lowest channel



Date: 25.JUN.2018 11:02:16

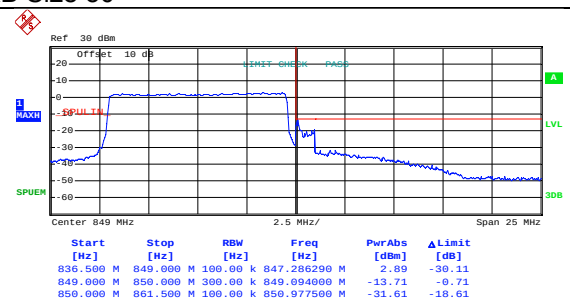
Highest channel

QPSK & RB Size 50



Date: 25.JUN.2018 11:01:28

Lowest channel



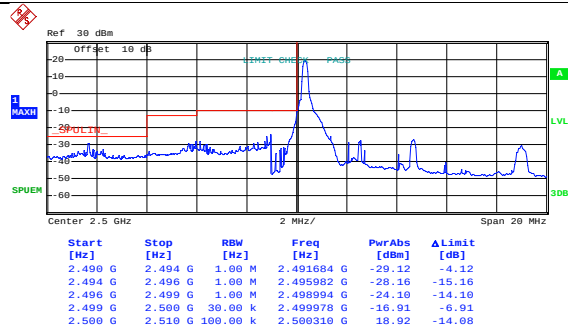
Date: 25.JUN.2018 11:04:02

Highest channel

LTE Band 7 part:

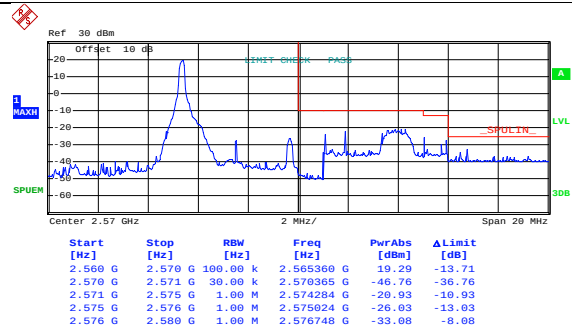
LTE Band 7, BW: 5MHz

16QAM & RB Size 1



Date: 25.JUN.2018 10:18:32

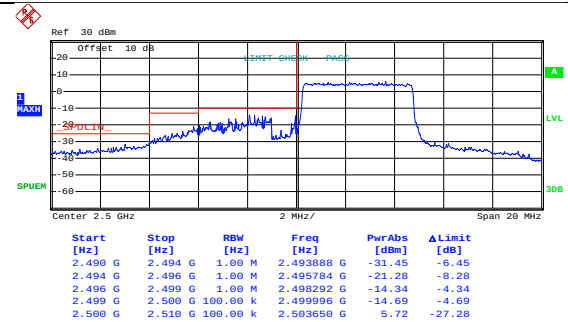
Lowest channel



Date: 25.JUN.2018 10:20:15

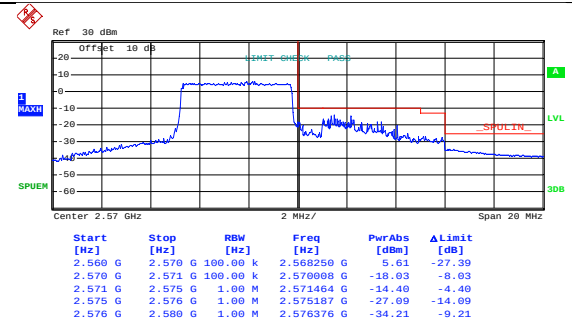
Highest channel

16QAM & RB Size 25



Date: 25.JUN.2018 10:19:32

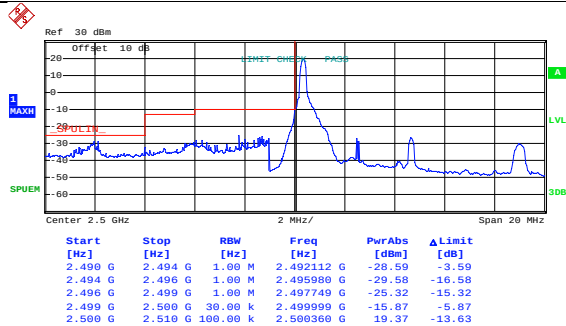
Lowest channel



Date: 25.JUN.2018 10:21:20

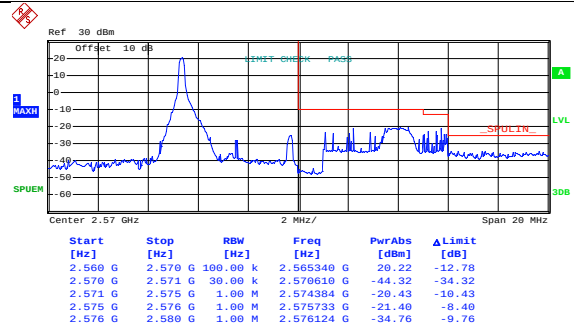
Highest channel

LTE Band 7, BW: 5MHz QPSK & RB Size 1



Date: 25.JUN.2018 10:18:20

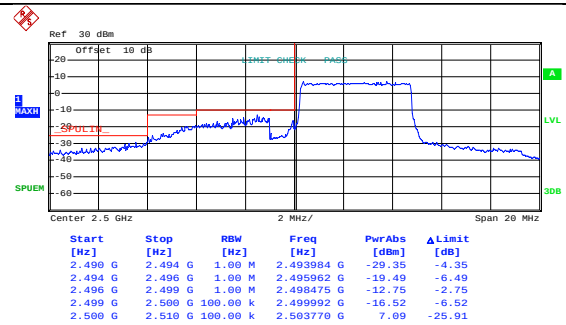
Lowest channel



Date: 25.JUN.2018 10:20:02

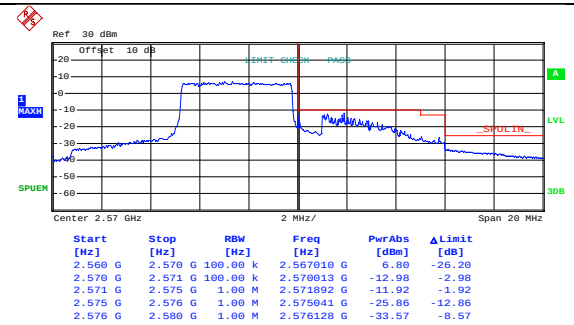
Highest channel

QPSK & RB Size 25



Date: 25.JUN.2018 10:19:19

Lowest channel

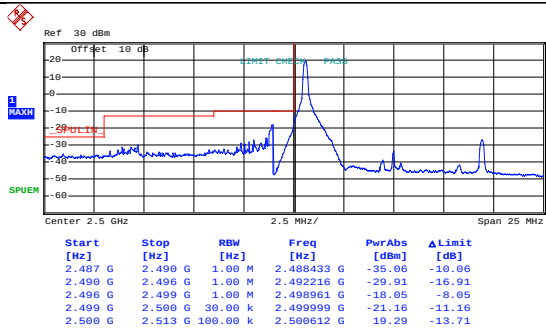


Date: 25.JUN.2018 10:21:05

Highest channel

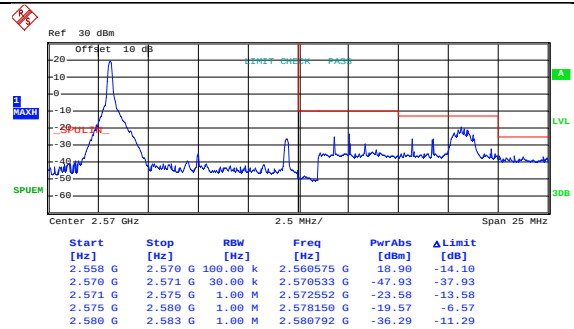
LTE Band 7, BW: 10MHz

16QAM & RB Size 1



Date: 25.JUN.2018 10:23:55

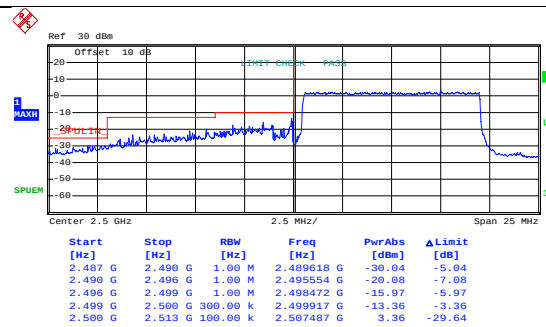
Lowest channel



Date: 25.JUN.2018 10:25:51

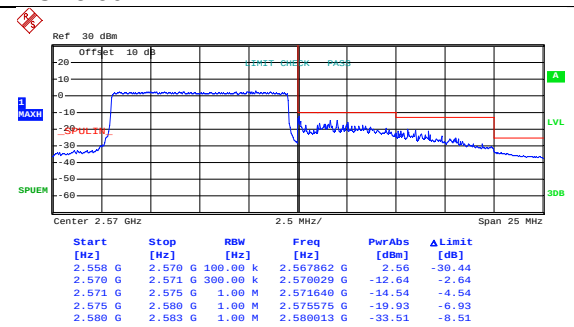
Highest channel

16QAM & RB Size 50



Date: 25.JUN.2018 10:25:07

Lowest channel

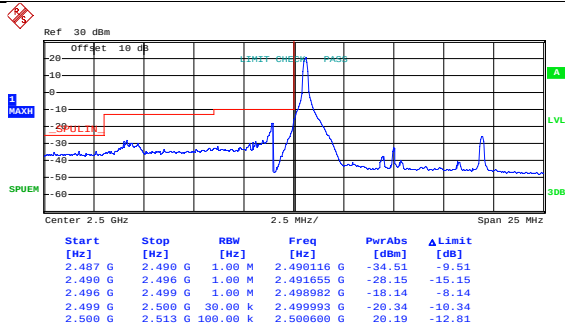


Date: 25.JUN.2018 10:26:40

Highest channel

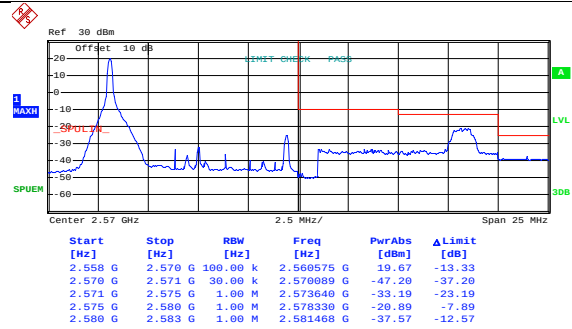
LTE Band 7, BW: 10MHz

QPSK & RB Size 1



Date: 25.JUN.2018 10:23:44

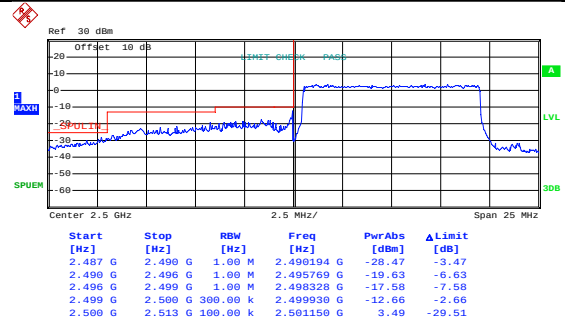
Lowest channel



Date: 25.JUN.2018 10:25:42

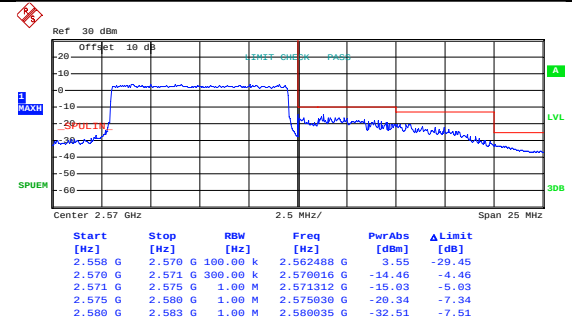
Highest channel

QPSK & RB Size 50



Date: 25.JUN.2018 10:24:55

Lowest channel

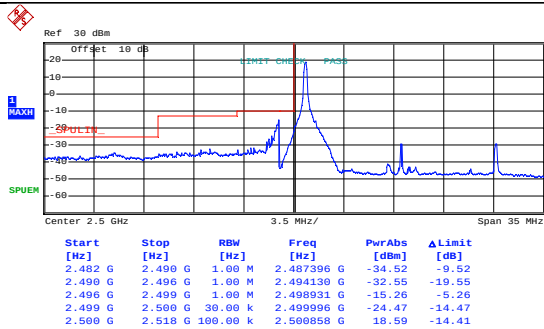


Date: 25.JUN.2018 10:26:31

Highest channel

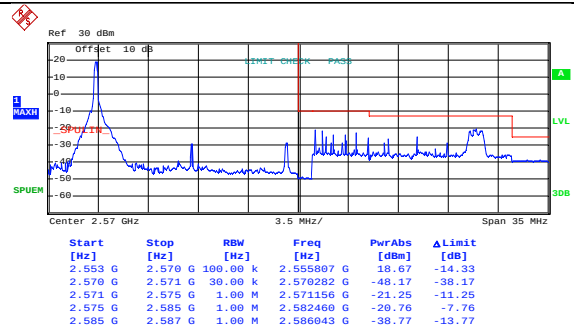
LTE Band 7, BW: 15MHz

16QAM & RB Size 1



Date: 25.JUN.2018 10:28:43

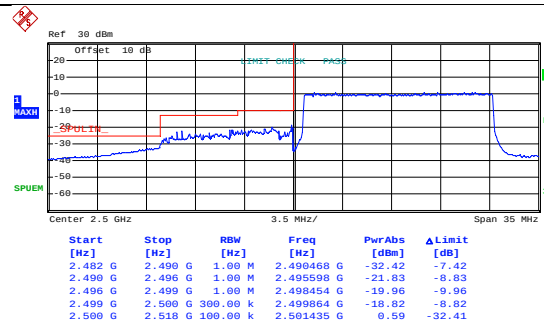
Lowest channel



Date: 25.JUN.2018 10:33:01

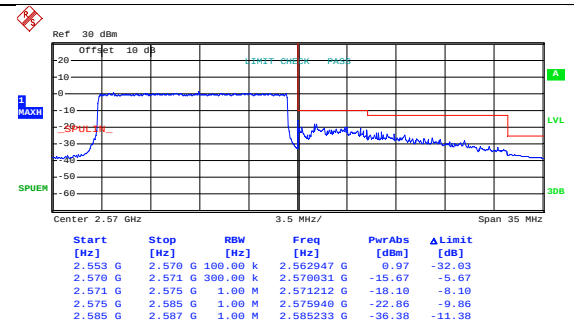
Highest channel

16QAM & RB Size 75



Date: 25.JUN.2018 10:31:41

Lowest channel

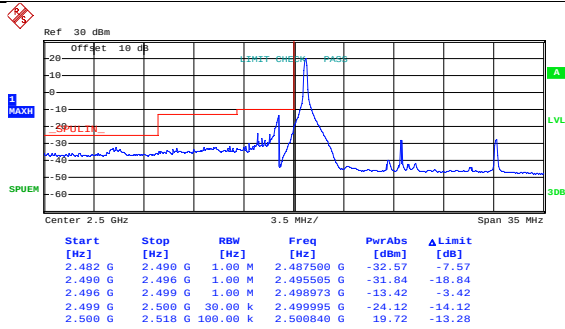


Date: 25.JUN.2018 10:33:56

Highest channel

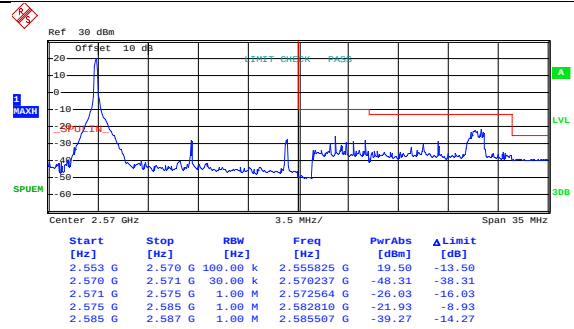
LTE Band 7, BW: 15MHz

QPSK & RB Size 1



Date: 25.JUN.2018 10:28:32

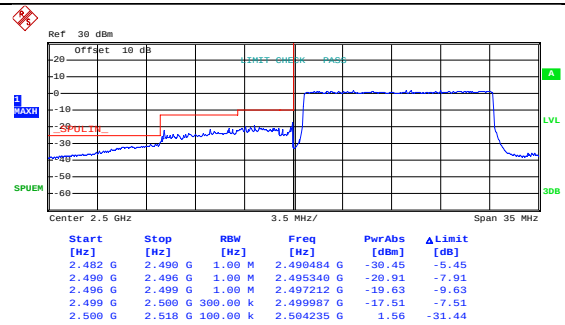
Lowest channel



Date: 25.JUN.2018 10:32:29

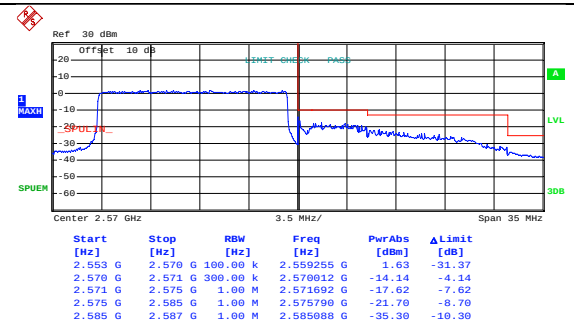
Highest channel

QPSK & RB Size 75



Date: 25.JUN.2018 10:31:18

Lowest channel

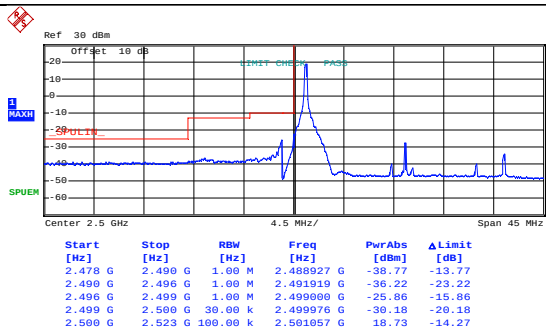


Date: 25.JUN.2018 10:33:49

Highest channel

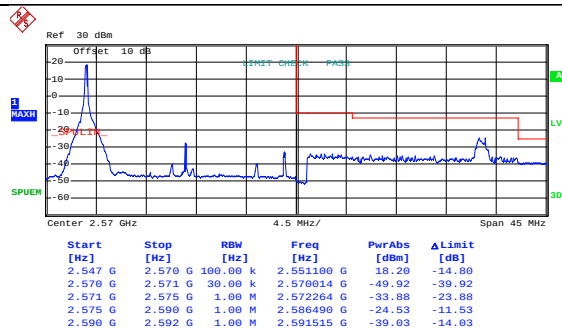
LTE Band 7, BW: 20MHz

16QAM & RB Size 1



Date: 25.JUN.2018 10:36:23

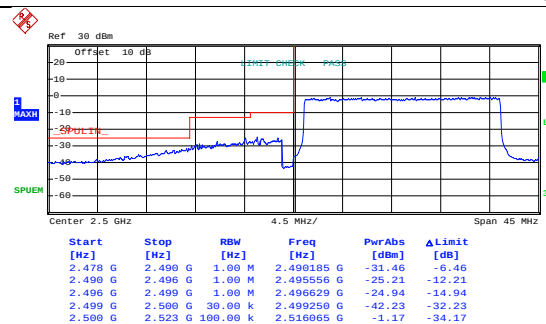
Lowest channel



Date: 25.JUN.2018 10:37:42

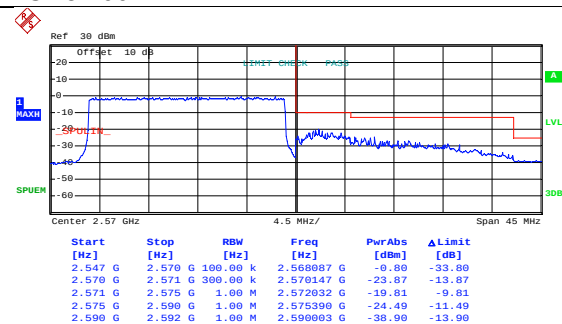
Highest channel

16QAM & RB Size 100



Date: 25.JUN.2018 10:37:06

Lowest channel

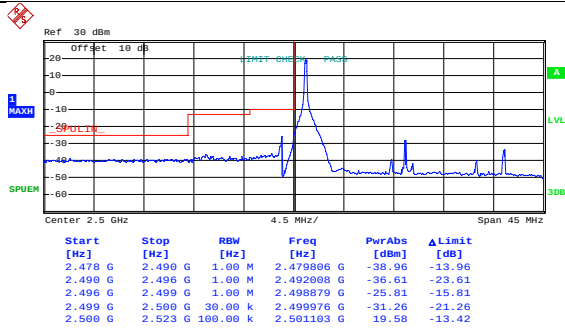


Date: 25.JUN.2018 10:38:39

Highest channel

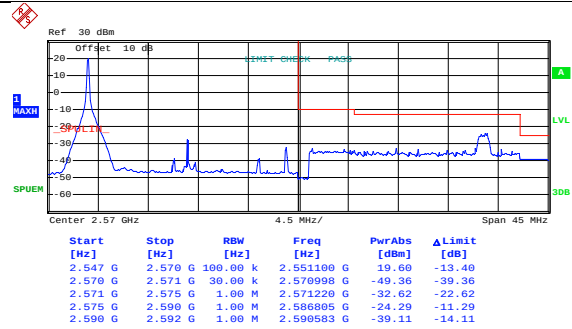
LTE Band 7, BW: 20MHz

QPSK & RB Size 1



Date: 25.JUN.2018 10:36:10

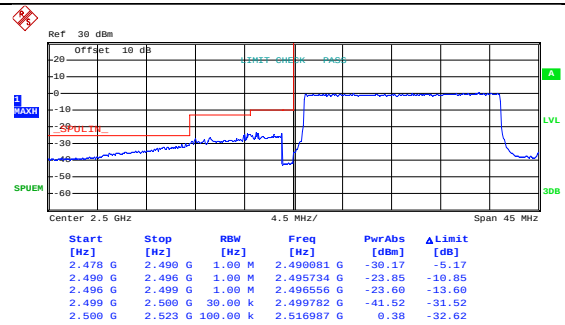
Lowest channel



Date: 25.JUN.2018 10:37:34

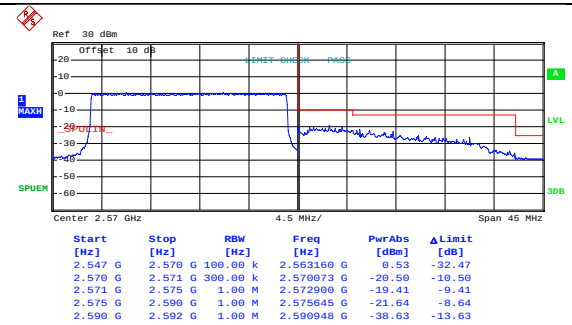
Highest channel

QPSK & RB Size 100



Date: 25.JUN.2018 10:37:00

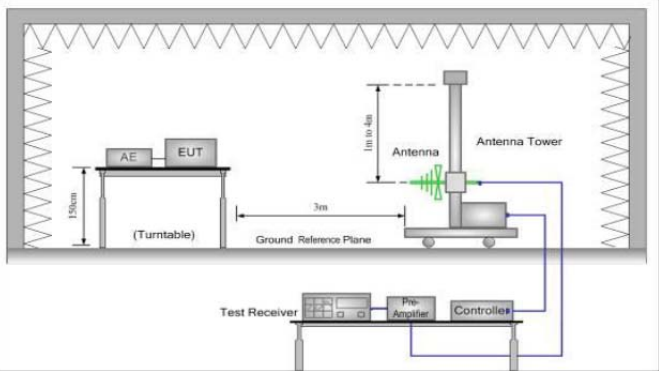
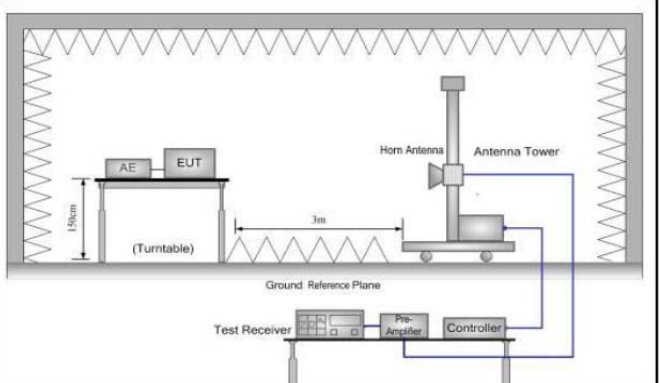
Lowest channel



Date: 25.JUN.2018 10:38:32

Highest channel

6.5 ERP, EIRP Measurement

Test Requirement:	Part 22.913(a)(2), Part 24.232(c), Part 27.50(c)(10), Part 27.50(d)(4), Part 27.50 (h)
Test Method:	ANSI/TIA-603-D 2010
Limit:	LTE Band 2: 2W EIRP, LTE Band 5: 7W EIRP, LTE Band 4: 1W EIRP, LTE Band 7: 2W EIRP
Test setup:	Below 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. ERP in frequency band below 1GHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows: $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 4. EIRP in frequency band above 1GHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: $EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$ 5. The worse case was relating to the conducted output power.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

LTE Band 2 part:

LTE Band 2							
BW: 1.4MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
1850.70	18607	QPSK	H	V	21.53	33.00	Pass
				H	21.45		
1850.70	18607	16QAM	H	V	21.43		
				H	21.36		
Middle Channel							
1880.00	18900	QPSK	H	V	21.18	33.00	Pass
				H	18.51		
1880.00	18900	16QAM	H	V	21.49		
				H	19.67		
Highest Channel							
1909.3	19193	QPSK	H	V	18.13	33.00	Pass
				H	15.21		
1909.3	19193	16QAM	H	V	19.64		
				H	13.45		
BW: 3MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
1851.50	18615	QPSK	H	V	20.62	33.00	Pass
				H	21.97		
1851.50	18615	16QAM	H	V	20.44		
				H	21.33		
Middle Channel							
1880.00	18900	QPSK	H	V	21.67	33.00	Pass
				H	19.64		
1880.00	18900	16QAM	H	V	22.32		
				H	19.79		
Highest Channel							
1908.50	19185	QPSK	H	V	19.62	33.00	Pass
				H	13.49		
1908.50	19185	16QAM	H	V	18.70		
				H	14.49		

LTE Band 2							
BW: 5MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
1852.50	18625	QPSK	H	V	20.32	33.00	Pass
				H	21.97		
1852.50	18625	16QAM	H	V	21.97		
				H	20.49		
Middle Channel							
1880.00	18900	QPSK	H	V	21.03	33.00	Pass
				H	20.44		
1880.00	18900	16QAM	H	V	21.34		
				H	19.77		
Highest Channel							
1907.50	19175	QPSK	H	V	20.23	33.00	Pass
				H	14.62		
1907.50	19175	16QAM	H	V	19.77		
				H	13.46		
BW: 10MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
1855.00	18650	QPSK	H	V	19.26	33.00	Pass
				H	19.23		
1855.00	18650	16QAM	H	V	20.04		
				H	21.49		
Middle Channel							
1880.00	18900	QPSK	H	V	20.67	33.00	Pass
				H	20.36		
1880.00	18900	16QAM	H	V	21.77		
				H	20.13		
Highest Channel							
1905.00	19150	QPSK	H	V	21.02	33.00	Pass
				H	16.32		
1905.00	19150	16QAM	H	V	20.34		
				H	13.62		

LTE Band 2							
BW: 15MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
1857.50	18675	QPSK	H	V	20.23	33.00	Pass
				H	19.62		
1857.50	18675	16QAM	H	V	20.39		
				H	21.44		
Middle Channel							
1880.00	18900	QPSK	H	V	21.03	33.00	Pass
				H	20.69		
1880.00	18900	16QAM	H	V	21.47		
				H	20.99		
Highest Channel							
1902.5	19125	QPSK	H	V	20.23	33.00	Pass
				H	15.64		
1902.5	19125	16QAM	H	V	19.47		
				H	14.79		
BW: 20MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
1860.00	18700	QPSK	H	V	21.27	33.00	Pass
				H	21.31		
1860.00	18700	16QAM	H	V	20.20		
				H	19.40		
Middle Channel							
1880.00	18900	QPSK	H	V	21.38	33.00	Pass
				H	19.27		
1880.00	18900	16QAM	H	V	20.63		
				H	18.79		
Highest Channel							
1900.00	19100	QPSK	H	V	20.31	33.00	Pass
				H	15.80		
1900.00	19100	16QAM	H	V	21.46		
				H	14.79		

LTE Band 4 part:

LTE Band 4							
BW: 1.4MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
1710.70	19957	QPSK	H	V	16.48	30.00	Pass
				H	17.65		
1710.70	19957	16QAM	H	V	15.36		
				H	16.73		
Middle Channel							
1732.50	20175	QPSK	H	V	21.21	30.00	Pass
				H	18.36		
1732.50	20175	16QAM	H	V	20.23		
				H	19.79		
Highest Channel							
1754.30	20393	QPSK	H	V	17.58	30.00	Pass
				H	14.90		
1754.30	20393	16QAM	H	V	16.34		
				H	15.70		
BW: 3MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
1711.50	19965	QPSK	H	V	15.62	30.00	Pass
				H	16.76		
1711.50	19965	16QAM	H	V	17.89		
				H	16.32		
Middle Channel							
1732.50	20175	QPSK	H	V	21.03	30.00	Pass
				H	19.64		
1732.50	20175	16QAM	H	V	19.67		
				H	18.79		
Highest Channel							
1753.50	20385	QPSK	H	V	16.34	30.00	Pass
				H	13.56		
1753.50	20385	16QAM	H	V	15.79		
				H	14.58		

LTE Band 4							
BW: 5MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
1712.50	19975	QPSK	H	V	16.32	30.00	Pass
				H	15.42		
1712.50	19975	16QAM	H	V	17.64		
				H	16.25		
Middle Channel							
1732.50	20175	QPSK	H	V	22.03	30.00	Pass
				H	19.32		
1732.50	20175	16QAM	H	V	18.79		
				H	17.46		
Highest Channel							
1752.50	20375	QPSK	H	V	15.23	30.00	Pass
				H	14.37		
1752.50	20375	16QAM	H	V	15.49		
				H	14.79		
BW: 10MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
1715.00	20000	QPSK	H	V	15.64	30.00	Pass
				H	16.78		
1715.00	20000	16QAM	H	V	18.62		
				H	15.47		
Middle Channel							
1732.50	20175	QPSK	H	V	20.23	30.00	Pass
				H	19.78		
1732.50	20175	16QAM	H	V	17.46		
				H	16.85		
Highest Channel							
1750.00	20350	QPSK	H	V	16.78	30.00	Pass
				H	13.52		
1750.00	20350	16QAM	H	V	14.79		
				H	15.69		

LTE Band 4							
BW: 15MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
1717.50	20025	QPSK	H	V	14.62	30.00	Pass
				H	16.32		
1717.50	20025	16QAM	H	V	18.62		
				H	14.37		
Middle Channel							
1732.50	20175	QPSK	H	V	20.32	30.00	Pass
				H	19.46		
1732.50	20175	16QAM	H	V	16.39		
				H	15.89		
Highest Channel							
1747.50	20325	QPSK	H	V	15.62	30.00	Pass
				H	13.43		
1747.50	20325	16QAM	H	V	14.26		
				H	14.90		
BW: 20MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
1720.00	20050	QPSK	H	V	15.32	30.00	Pass
				H	15.63		
1720.00	20050	16QAM	H	V	16.34		
				H	14.78		
Middle Channel							
1732.50	20175	QPSK	H	V	19.62	30.00	Pass
				H	18.64		
1732.50	20175	16QAM	H	V	16.32		
				H	14.80		
Highest Channel							
1745.00	20300	QPSK	H	V	16.32	30.00	Pass
				H	14.61		
1745.00	20300	16QAM	H	V	13.59		
				H	15.02		

LTE Band 5 part:

LTE Band 5							
BW: 1.4MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
Lowest Channel							
824.70	20407	QPSK	H	V	21.33	38.45	Pass
				H	17.06		
824.70	20407	16QAM	H	V	20.36		
				H	16.63		
Middle Channel							
836.50	20525	QPSK	H	V	20.87	38.45	Pass
				H	14.76		
836.50	20525	16QAM	H	V	19.26		
				H	13.44		
Highest Channel							
848.30	20643	QPSK	H	V	19.04	38.45	Pass
				H	13.84		
848.30	20643	16QAM	H	V	18.97		
				H	12.49		
BW: 3MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
Lowest Channel							
825.5	20415	QPSK	H	V	21.36	38.45	Pass
				H	18.92		
825.5	20415	16QAM	H	V	21.30		
				H	17.49		
Middle Channel							
836.50	20525	QPSK	H	V	21.32	38.45	Pass
				H	15.79		
836.50	20525	16QAM	H	V	20.36		
				H	14.79		
Highest Channel							
847.50	20635	QPSK	H	V	20.36	38.45	Pass
				H	14.67		
847.50	20635	16QAM	H	V	19.64		
				H	13.47		

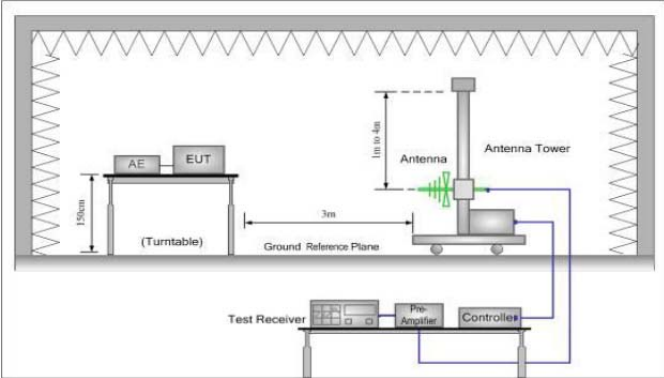
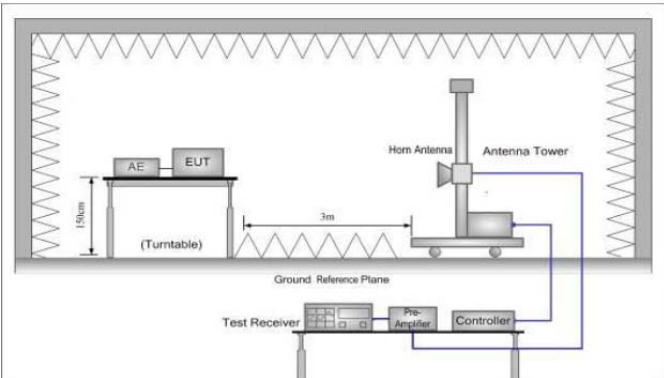
LTE Band 5							
BW: 5MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
Lowest Channel							
826.50	20425	QPSK	H	V	22.32	38.45	Pass
				H	19.64		
826.50	20425	16QAM	H	V	21.56		
				H	16.33		
Middle Channel							
836.50	20525	QPSK	H	V	22.62	38.45	Pass
				H	17.49		
836.50	20525	16QAM	H	V	21.34		
				H	16.87		
Highest Channel							
846.50	20625	QPSK	H	V	21.32	38.45	Pass
				H	15.79		
846.50	20625	16QAM	H	V	20.34		
				H	16.87		
BW: 10MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
Lowest Channel							
829.00	20450	QPSK	H	V	22.36	38.45	Pass
				H	19.63		
829.00	20450	16QAM	H	V	22.43		
				H	17.80		
Middle Channel							
836.50	20525	QPSK	H	V	21.30	38.45	Pass
				H	16.46		
836.50	20525	16QAM	H	V	22.03		
				H	15.79		
Highest Channel							
844.00	20600	QPSK	H	V	23.32	38.45	Pass
				H	14.62		
844.00	20600	16QAM	H	V	19.34		
				H	15.79		

LTE band 7 part:

LTE Band 7							
BW: 5MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
2502.50	20775	QPSK	H	V	21.43	33.00	Pass
				H	22.16		
2502.50	20775	16QAM	H	V	20.23		
				H	21.49		
Middle Channel							
2535.00	21100	QPSK	H	V	18.48	33.00	Pass
				H	24.21		
2535.00	21100	16QAM	H	V	19.32		
				H	23.69		
Highest Channel							
2567.50	21425	QPSK	H	V	19.01	33.00	Pass
				H	25.31		
2567.50	21425	16QAM	H	V	18.62		
				H	24.78		
BW: 10MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
2505.00	20800	QPSK	H	V	20.23	33.00	Pass
				H	21.39		
2505.00	20800	16QAM	H	V	19.64		
				H	21.70		
Middle Channel							
2535.00	21100	QPSK	H	V	19.62	33.00	Pass
				H	23.32		
2535.00	21100	16QAM	H	V	19.47		
				H	23.44		
Highest Channel							
2565.00	21400	QPSK	H	V	20.23	33.00	Pass
				H	24.60		
2565.00	21400	16QAM	H	V	19.67		
				H	23.49		

LTE Band 7							
BW: 15MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
2507.50	20825	QPSK	H	V	21.23	33.00	Pass
				H	22.64		
2507.50	20825	16QAM	H	V	19.62		
				H	20.98		
Middle Channel							
2535.00	21100	QPSK	H	V	20.20	33.00	Pass
				H	23.19		
2535.00	21100	16QAM	H	V	19.46		
				H	24.13		
Highest Channel							
2562.50	21375	QPSK	H	V	20.23	33.00	Pass
				H	23.34		
2562.50	21375	16QAM	H	V	19.62		
				H	20.78		
BW: 20MHz							
Frequency (MHz)	UL Channel	Modulation	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
Lowest Channel							
2510.00	20850	QPSK	H	V	22.22	33.00	Pass
				H	21.46		
2510.00	20850	16QAM	H	V	19.32		
				H	21.40		
Middle Channel							
2535.00	21100	QPSK	H	V	20.23	33.00	Pass
				H	23.47		
2535.00	21100	16QAM	H	V	19.62		
				H	23.44		
Highest Channel							
2560.00	21350	QPSK	H	V	19.62	33.00	Pass
				H	23.65		
2560.00	21350	16QAM	H	V	19.57		
				H	21.49		

6.6 Field strength of spurious radiation measurement

Test Requirement:	Part 22.917(b), Part 24.238 (a), Part 27.53(m),Part 27.53(h)
Test Method:	ANSI/TIA-603-D 2010
Limit:	LTE Band 2 & 4 & 5: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm). LTE Band 7: For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
Test setup:	Below 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission

	was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $ERP / EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data:
LTE Band 2 part:

LTE Band 2, WB: 1.4MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3701.40	Vertical	-50.32	-13.00	Pass
5552.10	V	-41.36		
7402.00	V	-38.29		
3701.40	Horizontal	-50.20		
5552.10	H	-38.85		
7402.00	H	-37.72		
Middle Channel				
3760.00	Vertical	-49.95	-13.00	Pass
5640.00	V	-42.74		
7520.00	V	-37.99		
3760.00	Horizontal	-50.36		
5640.00	H	-40.88		
7520.00	H	-38.67		
Highest Channel				
3816.60	Vertical	-50.41	-13.00	Pass
5724.90	V	-42.23		
7633.20	V	-37.85		
3816.60	Horizontal	-50.74		
5724.90	H	-41.38		
7633.20	H	-38.56		
Note: 1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report. 2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 2, WB: 3MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3703.00	Vertical	-44.56	-13.00	Pass
5554.50	V	-43.20		
7406.00	V	-36.25		
3703.00	Horizontal	-46.61		
5554.50	H	-52.24		
7406.00	H	-36.73		
Middle Channel				
3760.00	Vertical	-45.25	-13.00	Pass
5640.00	V	-42.31		
7520.00	V	-37.64		
3760.00	Horizontal	-49.52		
5640.00	H	-41.26		
7520.00	H	-37.64		
Highest Channel				
3817.00	Vertical	-45.25	-13.00	Pass
5725.50	V	-42.16		
7634.00	V	-36.85		
3817.00	Horizontal	-49.88		
5725.50	H	-42.15		
7634.00	H	-37.49		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 2, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3705.00	Vertical	-49.62	-13.00	Pass
5557.50	V	-42.35		
7410.00	V	-36.34		
3705.00	Horizontal	-49.62		
5557.50	H	-37.64		
7410.00	H	-36.45		
Middle Channel				
3760.00	Vertical	-48.62	-13.00	Pass
5640.00	V	-41.25		
7520.00	V	-36.95		
3760.00	Horizontal	-49.51		
5640.00	H	-52.46		
7520.00	H	-37.94		
Highest Channel				
3815.00	Vertical	-49.56	-13.00	Pass
5722.50	V	-42.17		
7630.00	V	-36.85		
3815.00	Horizontal	-49.62		
5722.50	H	-42.10		
7630.00	H	-37.94		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 2, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3710.00	Vertical	-45.24	-13.00	Pass
5565.00	V	-42.16		
7420.00	V	-36.56		
3710.00	Horizontal	-47.85		
5565.00	H	-51.42		
7420.00	H	-36.25		
Middle Channel				
3760.00	Vertical	-47.69	-13.00	Pass
5640.00	V	-42.52		
7520.00	V	-36.56		
3760.00	Horizontal	-49.61		
5640.00	H	-42.14		
7520.00	H	-36.85		
Highest Channel				
3810.00	Vertical	-46.34	-13.00	Pass
5715.00	V	-41.67		
7620.00	V	-36.45		
3810.00	Horizontal	-49.23		
5715.00	H	-41.46		
7620.00	H	-36.98		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 2, WB: 15MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3715.00	Vertical	-48.62	-13.00	Pass
5572.50	V	-42.23		
7430.00	V	-37.34		
3715.00	Horizontal	-49.62		
5572.50	H	-36.62		
7430.00	H	-34.25		
Middle Channel				
3760.00	Vertical	-47.64	-13.00	Pass
5640.00	V	-42.53		
7520.00	V	-36.34		
3760.00	Horizontal	-49.16		
5640.00	H	-51.43		
7520.00	H	-36.75		
Highest Channel				
3805.00	Vertical	-48.62	-13.00	Pass
5707.50	V	-42.25		
7610.00	V	-36.34		
3805.00	Horizontal	-49.67		
5707.50	H	-41.45		
7610.00	H	-36.85		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 2, WB: 20MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3720.00	Vertical	-46.62	-13.00	Pass
5580.00	V	-41.34		
7440.00	V	-36.25		
3720.00	Horizontal	-48.62		
5580.00	H	-51.24		
7440.00	H	-36.73		
Middle Channel				
3760.00	Vertical	-48.62	-13.00	Pass
5640.00	V	-41.34		
7520.00	V	-35.68		
3760.00	Horizontal	-49.67		
5640.00	H	-42.21		
7520.00	H	-36.77		
Highest Channel				
3800.00	Vertical	-47.64	-13.00	Pass
5700.00	V	-42.21		
7600.00	V	-36.46		
3800.00	Horizontal	-49.61		
5700.00	H	-42.72		
7600.00	H	-36.78		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 4 part:

LTE Band 4, WB: 1.4MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3421.40	Vertical	-49.60	-13.00	Pass
5132.10	V	-37.90		
6842.80	V	-39.79		
3421.40	Horizontal	-50.79		
5132.10	H	-37.03		
6842.80	H	-39.61		
Middle Channel				
3465.00	Vertical	-50.78	-13.00	Pass
5197.50	V	-39.11		
6930.00	V	-39.84		
3465.00	Horizontal	-50.18		
5197.50	H	-36.23		
6930.00	H	-37.86		
Highest Channel				
3508.60	Vertical	-50.88	-13.00	Pass
5262.90	V	-41.22		
7017.20	V	-39.27		
3508.60	Horizontal	-50.05		
5262.90	H	-39.88		
7017.20	H	-38.61		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 4, WB: 3MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3423.00	Vertical	-46.25	-13.00	Pass
5134.50	V	-37.64		
6846.00	V	-35.29		
3423.00	Horizontal	-49.62		
5134.50	H	-35.24		
6846.00	H	-33.16		
Middle Channel				
3465.00	Vertical	-47.62	-13.00	Pass
5197.50	V	-35.25		
6930.00	V	-40.12		
3465.00	Horizontal	-48.62		
5197.50	H	-36.25		
6930.00	H	-35.19		
Highest Channel				
3507.00	Vertical	-49.67	-13.00	Pass
5260.50	V	-42.16		
7014.00	V	-36.85		
3507.00	Horizontal	-49.56		
5260.50	H	-37.46		
7014.00	H	-38.14		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 4, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3425.00	Vertical	-48.62	-13.00	Pass
5137.50	V	-36.32		
6850.00	V	-37.64		
3425.00	Horizontal	-50.19		
5137.50	H	-36.85		
6850.00	H	-37.45		
Middle Channel				
3465.00	Vertical	-49.61	-13.00	Pass
5197.50	V	-40.12		
6930.00	V	-39.62		
3465.00	Horizontal	-49.62		
5197.50	H	-37.85		
6930.00	H	-38.64		
Highest Channel				
3505.00	Vertical	-49.68	-13.00	Pass
5257.50	V	-42.56		
7010.00	V	-39.26		
3505.00	Horizontal	-49.85		
5257.50	H	-40.10		
7010.00	H	-39.89		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 4, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3430.00	Vertical	-47.68	-13.00	Pass
5145.00	V	-36.56		
6860.00	V	-34.85		
3430.00	Horizontal	-48.61		
5145.00	H	-36.25		
6860.00	H	-34.79		
Middle Channel				
3465.00	Vertical	-48.61	-13.00	Pass
5197.50	V	-36.34		
6930.00	V	-39.69		
3465.00	Horizontal	-49.85		
5197.50	H	-35.32		
6930.00	H	-34.17		
Highest Channel				
3500.00	Vertical	-50.26	-13.00	Pass
5250.00	V	-41.34		
7000.00	V	-37.86		
3500.00	Horizontal	-49.61		
5250.00	H	-39.45		
7000.00	H	-38.59		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 4, WB: 15MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3435.00	Vertical	-48.79	-13.00	Pass
5152.50	V	-37.64		
6870.00	V	-36.52		
3435.00	Horizontal	-49.61		
5152.50	H	-37.64		
6870.00	H	-36.52		
Middle Channel				
3465.00	Vertical	-49.56	-13.00	Pass
5197.50	V	-39.61		
6930.00	V	-40.36		
3465.00	Horizontal	-50.25		
5197.50	H	-37.85		
6930.00	H	-37.48		
Highest Channel				
3495.00	Vertical	-49.62	-13.00	Pass
5242.50	V	-41.52		
6990.00	V	-37.86		
3495.00	Horizontal	-49.61		
5242.50	H	-39.45		
6990.00	H	-37.89		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 4, WB: 20MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
3440.00	Vertical	-48.67	-13.00	Pass
5160.00	V	-36.62		
6880.00	V	-34.61		
3440.00	Horizontal	-49.67		
5160.00	H	-36.34		
6880.00	H	-35.79		
Middle Channel				
3465.00	Vertical	-49.85	-13.00	Pass
5197.50	V	-37.64		
6930.00	V	-39.75		
3465.00	Horizontal	-49.61		
5197.50	H	-36.34		
6930.00	H	-35.89		
Highest Channel				
3490.00	Vertical	-49.21	-13.00	Pass
5235.00	V	-42.53		
6980.00	V	-38.65		
3490.00	Horizontal	-49.14		
5235.00	H	-40.13		
6980.00	H	-37.89		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 5 part:

LTE Band 5, WB: 1.4MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1649.40	Vertical	-47.26	-13.00	Pass
2474.10	V	-53.48		
3298.80	V	-51.73		
1649.40	Horizontal	-48.89		
2474.10	H	-54.83		
3298.80	H	-51.59		
Middle Channel				
1673.00	Vertical	-46.85	-13.00	Pass
2509.50	V	-54.01		
3346.00	V	-51.35		
1673.00	Horizontal	-49.06		
2509.50	H	-52.37		
3346.00	H	-51.39		
Highest Channel				
1696.60	Vertical	-48.20	-13.00	Pass
2544.90	V	-55.45		
3393.20	V	-50.67		
1696.60	Horizontal	-51.00		
2544.90	H	-53.09		
3393.20	H	-50.13		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 5, WB: 3MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1651.00	Vertical	-46.32	-13.00	Pass
2476.50	V	-54.67		
3302.00	V	-53.19		
1651.00	Horizontal	-45.78		
2476.50	H	-51.43		
3302.00	H	-48.63		
Middle Channel				
1673.00	Vertical	-45.62	-13.00	Pass
2509.50	V	-52.26		
3346.00	V	-47.62		
1673.00	Horizontal	-52.16		
2509.50	H	-49.62		
3346.00	H	-53.19		
Highest Channel				
1695.00	Vertical	-47.62	-13.00	Pass
2542.50	V	-52.34		
3390.00	V	-49.61		
1695.00	Horizontal	-53.24		
2542.50	H	-52.76		
3390.00	H	-48.00		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 5, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1653.00	Vertical	-46.32	-13.00	Pass
2479.50	V	-54.16		
3306.00	V	-52.78		
1653.00	Horizontal	-47.91		
2479.50	H	-53.63		
3306.00	H	-51.49		
Middle Channel				
1673.00	Vertical	-46.86	-13.00	Pass
2509.50	V	-53.95		
3346.00	V	-53.76		
1673.00	Horizontal	-49.86		
2509.50	H	-51.46		
3346.00	H	-52.77		
Highest Channel				
1693.00	Vertical	-49.62	-13.00	Pass
2539.50	V	-54.31		
3386.00	V	-49.78		
1693.00	Horizontal	-52.34		
2539.50	H	-52.19		
3386.00	H	-49.98		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 5, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
1658.00	Vertical	-45.26	-13.00	Pass
2487.00	V	-56.32		
3316.00	V	-53.46		
1658.00	Horizontal	-46.78		
2487.00	H	-52.46		
3316.00	H	-49.79		
Middle Channel				
1673.00	Vertical	-45.21	-13.00	Pass
2509.50	V	-53.47		
3346.00	V	-48.62		
1673.00	Horizontal	-52.43		
2509.50	H	-51.49		
3346.00	H	-52.78		
Highest Channel				
1688.00	Vertical	-48.62	-13.00	Pass
2532.00	V	-53.36		
3376.00	V	-49.78		
1688.00	Horizontal	-52.46		
2532.00	H	-51.47		
3376.00	H	-48.18		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 7 part:

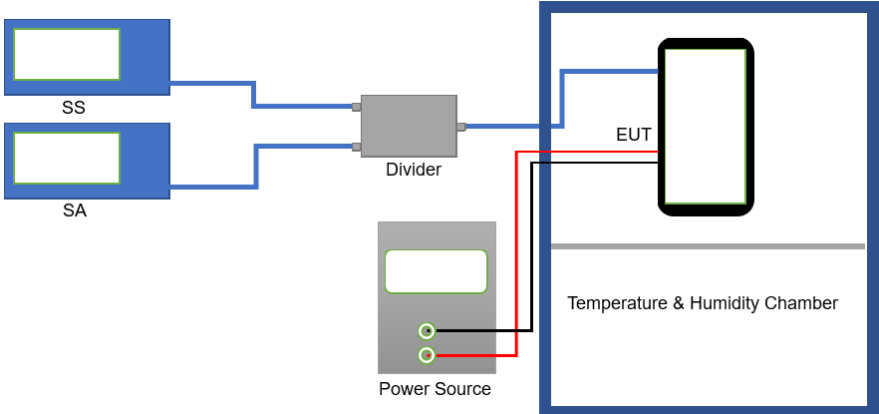
LTE Band 7, WB: 5MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
5005.00	Vertical	-46.50	-25.00	Pass
7507.50	V	-39.51		
10010.00	V	-36.26		
5005.00	Horizontal	-45.94		
7507.50	H	-39.76		
10010.00	H	-36.29		
Middle Channel				
5070.00	Vertical	-44.81	-25.00	Pass
7605.00	V	-38.50		
10140.00	V	-34.31		
5070.00	Horizontal	-46.15		
7605.00	H	-38.61		
10140.00	H	-35.27		
Highest Channel				
5135.00	Vertical	-45.70	-25.00	Pass
7702.50	V	-39.27		
10270.00	V	-35.73		
5135.00	Horizontal	-45.99		
7702.50	H	-39.02		
10270.00	H	-35.80		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 7, WB: 10MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
5010.00	Vertical	-45.25	-25.00	Pass
7515.00	V	-36.61		
10020.00	V	-38.76		
5010.00	Horizontal	-45.19		
7515.00	H	-40.39		
10020.00	H	-39.86		
Middle Channel				
5070.00	Vertical	-46.25	-25.00	Pass
7605.00	V	-37.64		
10140.00	V	-38.56		
5070.00	Horizontal	-45.21		
7605.00	H	-39.86		
10140.00	H	-33.45		
Highest Channel				
5130.00	Vertical	-46.13	-25.00	Pass
7695.00	V	-39.64		
10260.00	V	-35.49		
5130.00	Horizontal	-45.25		
7695.00	H	-42.19		
10260.00	H	-36.89		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 7, WB: 15MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
5015.00	Vertical	-45.25	-25.00	Pass
7522.50	V	-38.65		
10030.00	V	-37.42		
5015.00	Horizontal	-44.97		
7522.50	H	-39.86		
10030.00	H	-36.12		
Middle Channel				
5070.00	Vertical	-45.25	-25.00	Pass
7605.00	V	-37.68		
10140.00	V	-35.26		
5070.00	Horizontal	-47.61		
7605.00	H	-38.56		
10140.00	H	-34.59		
Highest Channel				
5125.00	Vertical	-44.67	-25.00	Pass
7687.50	V	-38.62		
10250.00	V	-34.19		
5125.00	Horizontal	-45.29		
7687.50	H	-40.13		
10250.00	H	-34.78		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

LTE Band 7, WB: 20MHz				
RB size 1 & RB offset 0				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest Channel				
5020.00	Vertical	-46.25	-25.00	Pass
7530.00	V	-37.68		
10040.00	V	-38.65		
5020.00	Horizontal	-45.26		
7530.00	H	-39.64		
10040.00	H	-37.25		
Middle Channel				
5070.00	Vertical	-45.21	-25.00	Pass
7605.00	V	-36.64		
10140.00	V	-36.78		
5070.00	Horizontal	-46.19		
7605.00	H	-38.54		
10140.00	H	-33.46		
Highest Channel				
5120.00	Vertical	-45.21	-25.00	Pass
7680.00	V	-37.64		
10240.00	V	-35.61		
5120.00	Horizontal	-46.32		
7680.00	H	-41.37		
10240.00	H	-36.78		
Note:				
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.				
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.				

6.7 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(a)(1)(b)
Test Method:	ANSI/TIA-603-D 2010
Limit:	±2.5ppm
Test setup:	
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case):

LTE Band 2 part:

Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	198	0.105319	±2.5	Pass
	-20	155	0.082447		
	-10	163	0.086702		
	0	123	0.065426		
	10	188	0.100000		
	20	174	0.092553		
	30	114	0.060638		
	40	105	0.055851		
	50	150	0.079787		
16QAM					
3.80	-30	123	0.065426	±2.5	Pass
	-20	150	0.079787		
	-10	166	0.088298		
	0	122	0.064894		
	10	144	0.076596		
	20	140	0.074468		
	30	156	0.082979		
	40	133	0.070745		
	50	138	0.073404		
Note: Only the worst case shown in the report.					

LTE Band 4 part:

Reference Frequency: LTE Band 4 (10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	196	0.113131	±2.5	Pass
	-20	153	0.088312		
	-10	161	0.092929		
	0	123	0.070996		
	10	182	0.105051		
	20	174	0.100433		
	30	114	0.065801		
	40	105	0.060606		
	50	150	0.086580		
16QAM					
3.80	-30	123	0.070996	±2.5	Pass
	-20	152	0.087734		
	-10	166	0.095815		
	0	120	0.069264		
	10	144	0.083117		
	20	140	0.080808		
	30	158	0.091198		
	40	133	0.076768		
	50	140	0.080808		
Note: Only the worst case shown in the report.					

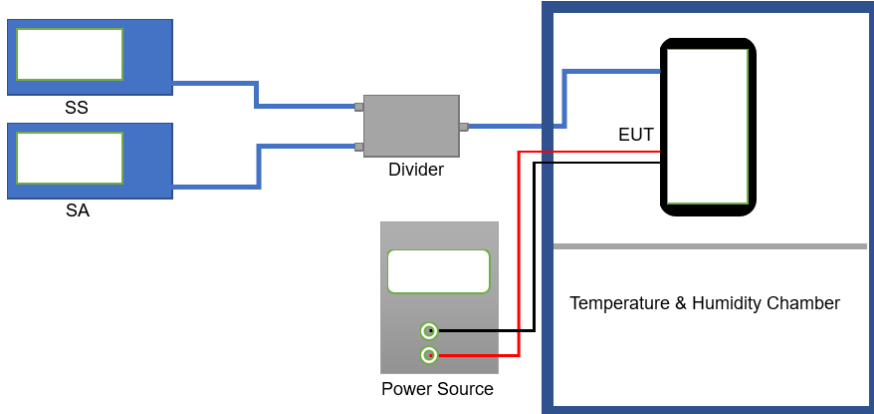
LTE Band 5 part:

Reference Frequency: LTE Band 5 (10MHz) Middle channel=20525 channel=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	189	0.225941	±2.5	Pass
	-20	150	0.179319		
	-10	136	0.162582		
	0	132	0.157800		
	10	188	0.224746		
	20	147	0.175732		
	30	141	0.168559		
	40	150	0.179319		
	50	105	0.125523		
16QAM					
3.80	-30	132	0.157800	±2.5	Pass
	-20	105	0.125523		
	-10	166	0.198446		
	0	122	0.145846		
	10	144	0.172146		
	20	104	0.124328		
	30	165	0.197250		
	40	133	0.158996		
	50	183	0.218769		
Note: Only the worst case shown in the report.					

LTE Band 7 part:

Reference Frequency: LTE Band 7 (10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	193	0.076134	±2.5	Pass
	-20	148	0.058383		
	-10	126	0.049704		
	0	133	0.052465		
	10	173	0.068245		
	20	170	0.067061		
	30	141	0.055621		
	40	105	0.041420		
	50	150	0.059172		
16QAM					
3.80	-30	123	0.048521	±2.5	Pass
	-20	146	0.057594		
	-10	106	0.041815		
	0	152	0.059961		
	10	144	0.056805		
	20	140	0.055227		
	30	156	0.061538		
	40	133	0.052465		
	50	138	0.054438		
Note: Only the worst case shown in the report.					

6.8 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(d)(2)
Test Method:	ANSI/TIA-603-D 2010
Limit:	±2.5ppm
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer (SA) and a Signal Source (SS) are connected to a Divider. The Divider is connected to the EUT (Equipment Under Test) inside a Temperature & Humidity Chamber. A Power Source is also connected to the EUT.
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case):

LTE Band 2 part:

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.35	98	0.052128	±2.5	Pass
	3.80	65	0.034574		
	3.50	74	0.039362		
16QAM					
25	4.35	80	0.042553	±2.5	Pass
	3.80	96	0.051064		
	3.50	48	0.025532		
Note: Only the worst case shown in the report.					

Note: Only the worst case shown in the report.

LTE Band 4 part:

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.35	96	0.055411	±2.5	Pass
	3.80	60	0.034632		
	3.50	58	0.033478		
16QAM					
25	4.35	82	0.047330	±2.5	Pass
	3.80	97	0.055988		
	3.50	50	0.028860		

Note: Only the worst case shown in the report.

Note: Only the worst case shown in the report.

LTE Band 5 part:

Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 channel=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.35	89	0.106396	±2.5	Pass
	3.80	56	0.066946		
	3.50	47	0.056186		
16QAM					
25	4.35	88	0.105200	±2.5	Pass
	3.80	69	0.082487		
	3.50	84	0.100418		
Note: Only the worst case shown in the report.					

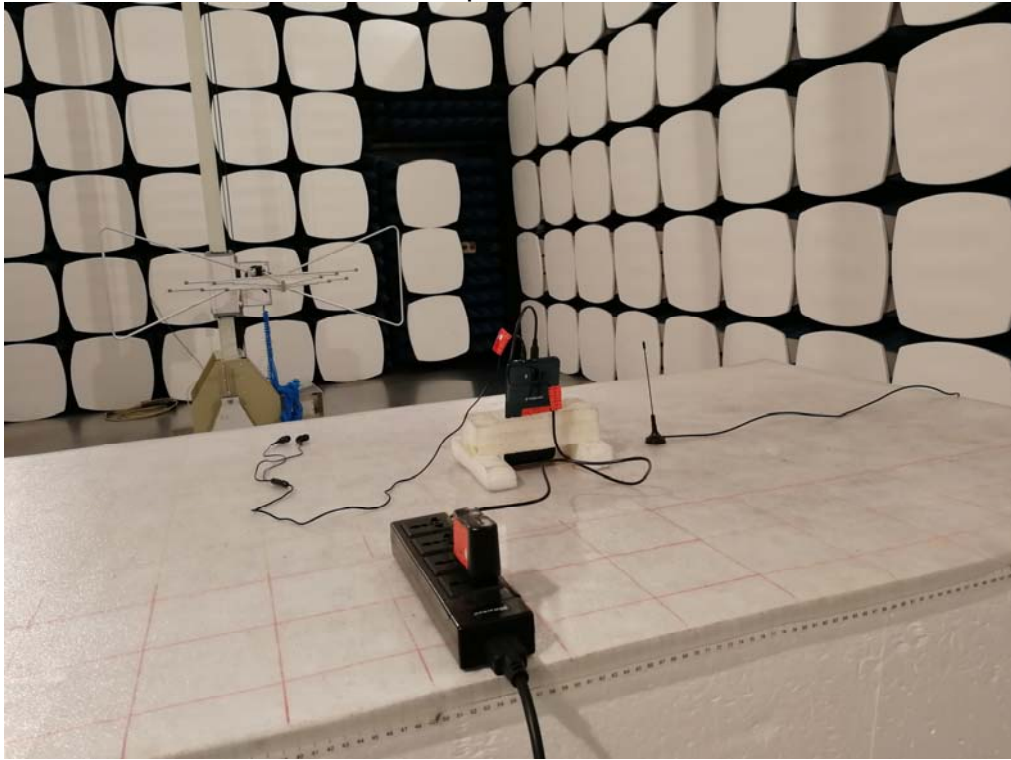
Note: Only the worst case shown in the report.

LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.35	63	0.024852	±2.5	Pass
	3.80	85	0.033531		
	3.50	74	0.029191		
16QAM					
25	4.35	89	0.035108	±2.5	Pass
	3.80	63	0.024852		
	3.50	48	0.018935		
Note: Only the worst case shown in the report.					

7 Test Setup Photo

Radiated Spurious Emission



8 EUT Constructional Details

Reference to the test report No. CCISE180603601.

-----End of report-----