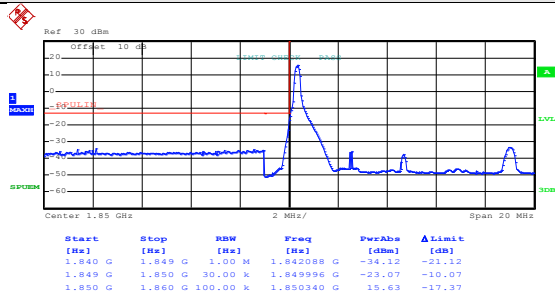


5MHz:

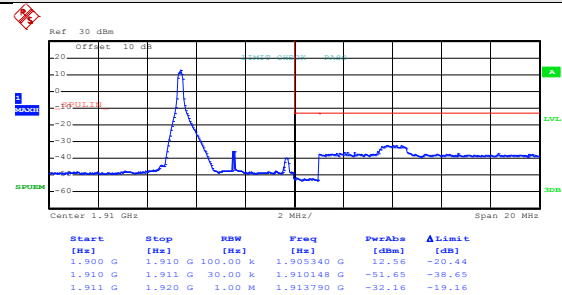
Test Mode:

LTE band 2(QPSKRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 17:31:45

Lowest channel

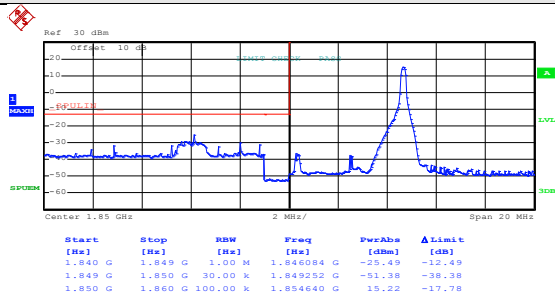


Date: 12.JUN.2016 17:34:00

Highest channel

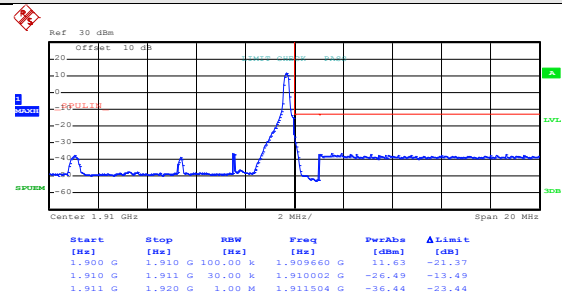
Test Mode:

LTE band 2(QPSKRB Size 1 &RB Offset 24)



Date: 12.JUN.2016 17:32:06

Lowest channel

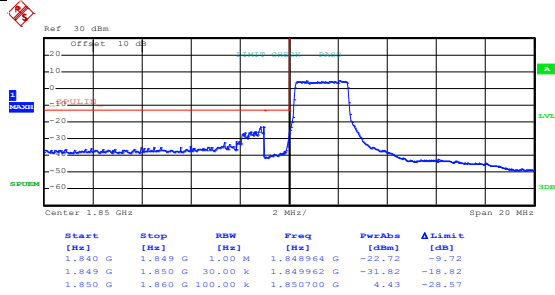


Date: 12.JUN.2016 17:34:19

Highest channel

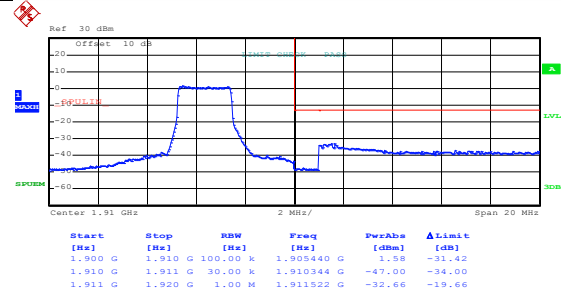
Test Mode:

LTE band 2(QPSKRB Size 12 &RB Offset 0)



Date: 12.JUN.2016 17:32:27

Lowest channel

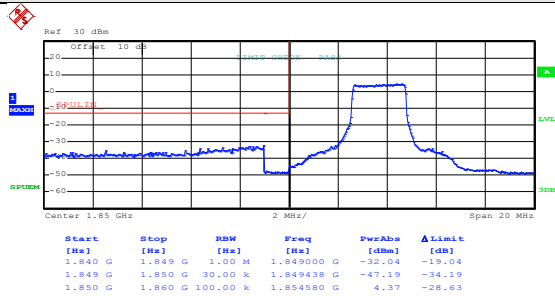


Date: 12.JUN.2016 17:34:50

Highest channel

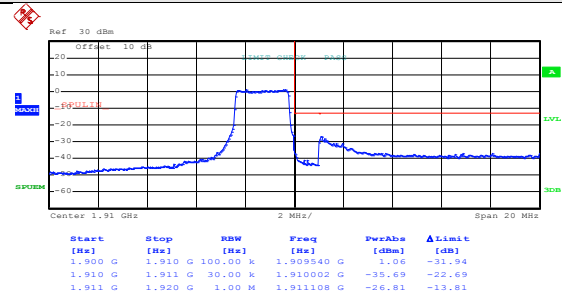
Test Mode:

LTE band 2(QPSKRB Size 12 &RB Offset 11)



Date: 12.JUN.2016 17:32:48

Lowest channel

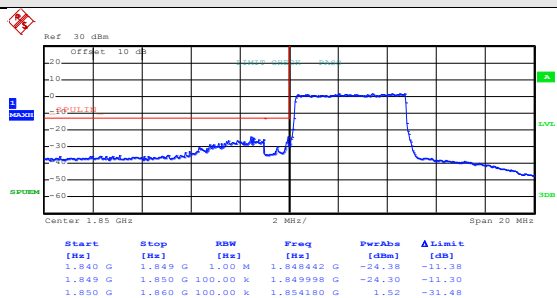


Date: 12.JUN.2016 17:35:10

Highest channel

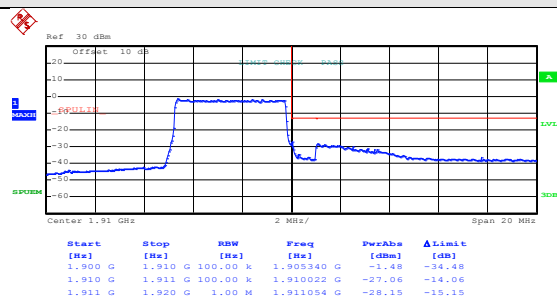
Test Mode:

LTE band 2(QPSKRB Size 25 &RB Offset 0)



Date: 12.JUN.2016 17:33:13

Lowest channel

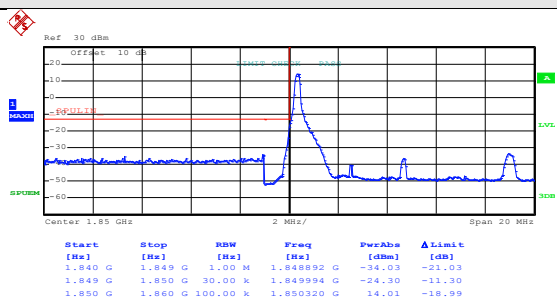


Date: 12.JUN.2016 17:36:00

Highest channel

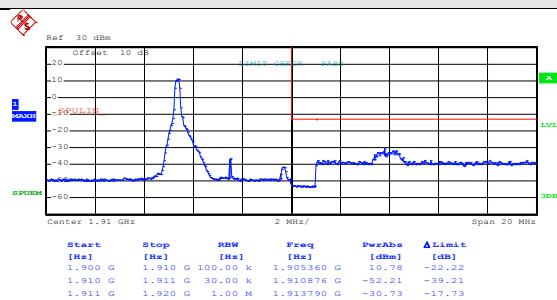
Test Mode:

LTE band 2(16QAMRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 17:31:55

Lowest channel

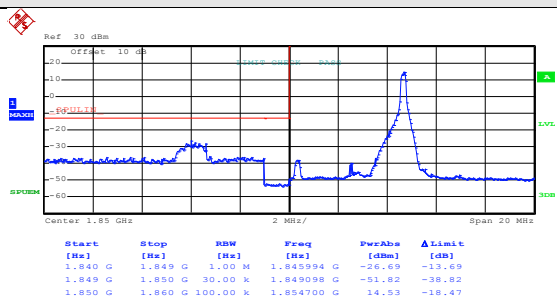


Date: 12.JUN.2016 17:34:07

Highest channel

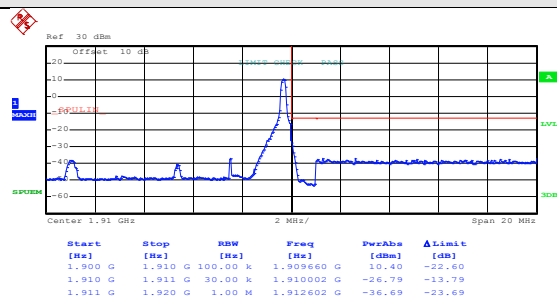
Test Mode:

LTE band 2(16QAMRB Size 1 &RB Offset 24)



Date: 12.JUN.2016 17:32:14

Lowest channel

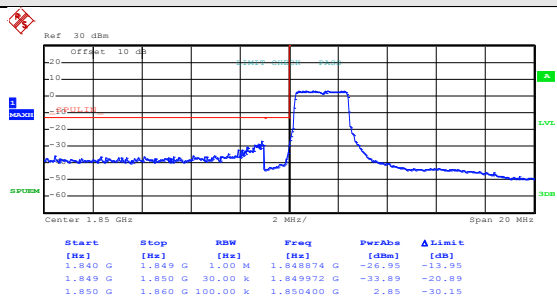


Date: 12.JUN.2016 17:34:28

Highest channel

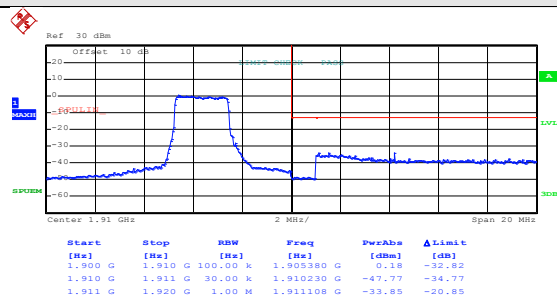
Test Mode:

LTE band 2(16QAMRB Size 12 &RB Offset 0)



Date: 12.JUN.2016 17:32:34

Lowest channel

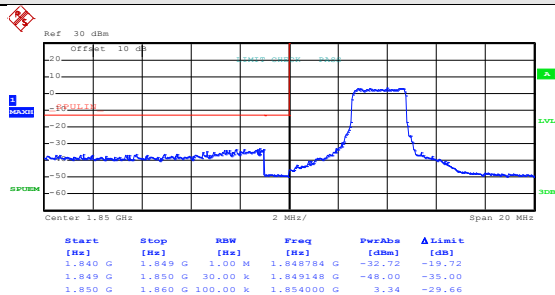


Date: 12.JUN.2016 17:34:58

Highest channel

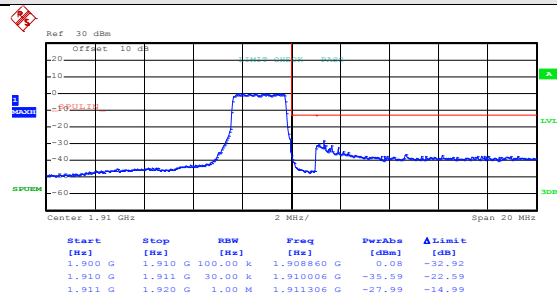
Test Mode:

LTE band 2(16QAMRB Size 12 &RB Offset 11)



Date: 12.JUN.2016 17:32:55

Lowest channel

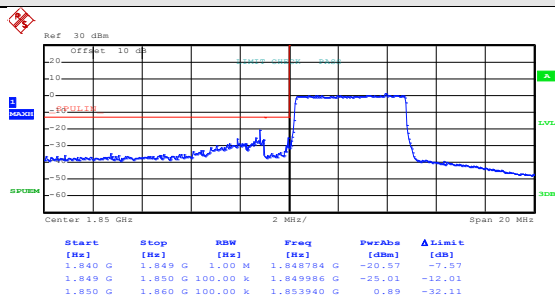


Date: 12.JUN.2016 17:35:21

Highest channel

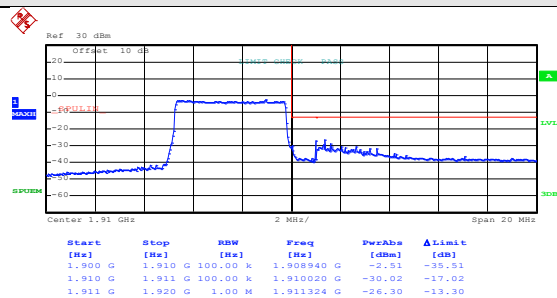
Test Mode:

LTE band 2(16QAMRB Size 25 &RB Offset 0)



Date: 12.JUN.2016 17:33:21

Lowest channel



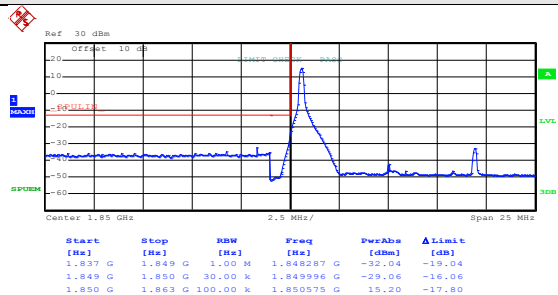
Date: 12.JUN.2016 17:36:12

Highest channel

10MHz:

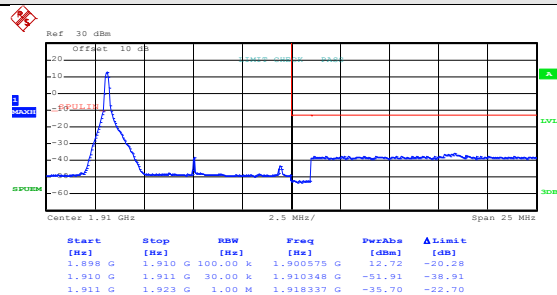
Test Mode:

LTE band 2(QPSKRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 17:52:15

Lowest channel

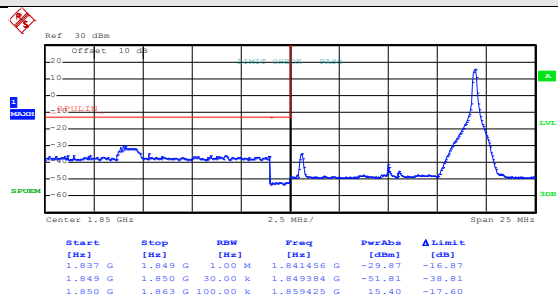


Date: 12.JUN.2016 17:57:03

Highest channel

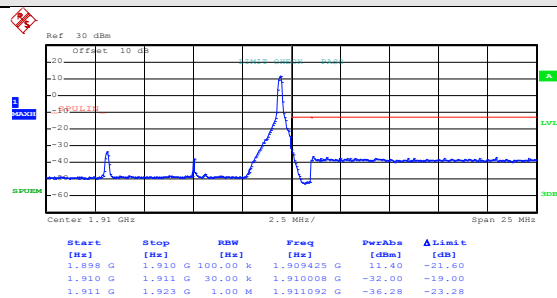
Test Mode:

LTE band 2(QPSKRB Size 1 &RB Offset 49)



Date: 12.JUN.2016 17:52:53

Lowest channel

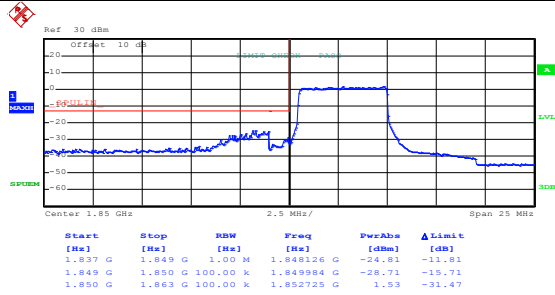


Date: 12.JUN.2016 17:57:34

Highest channel

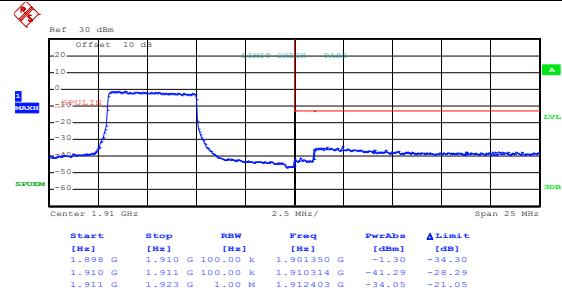
Test Mode:

LTE band 4(QPSKRB Size 25 &RB Offset 0)



Date: 12.JUN.2016 17:53:36

Lowest channel

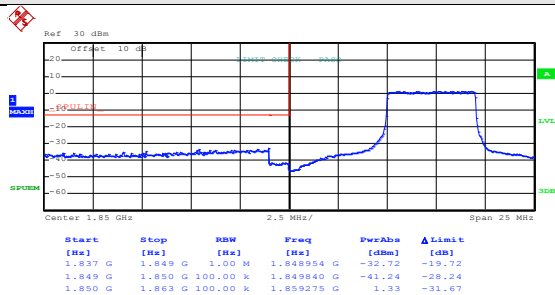


Date: 12.JUN.2016 17:59:12

Highest channel

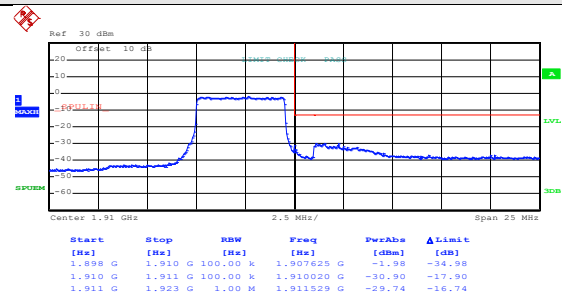
Test Mode:

LTE band 4(QPSKRB Size 25 &RB Offset 24)



Date: 12.JUN.2016 17:55:34

Lowest channel

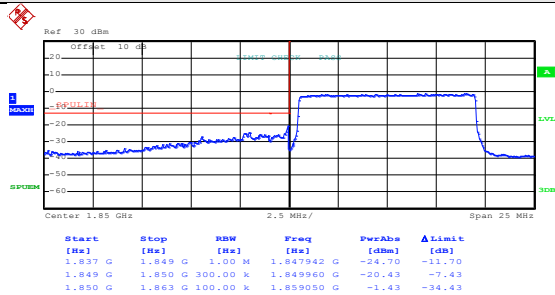


Date: 12.JUN.2016 17:59:39

Highest channel

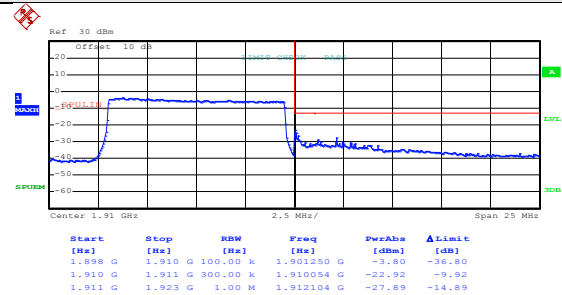
Test Mode:

LTE band 4(QPSKRB Size 50 &RB Offset 0)



Date: 12.JUN.2016 17:56:18

Lowest channel

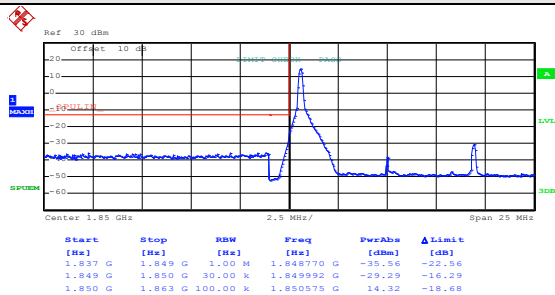


Date: 12.JUN.2016 18:00:13

Highest channel

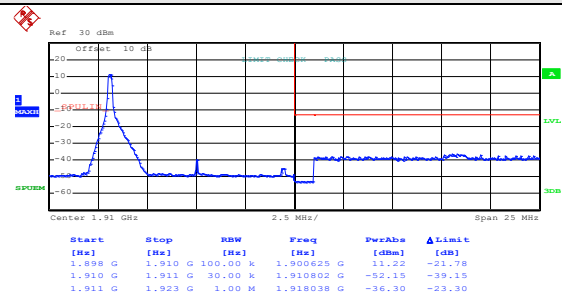
Test Mode:

LTE band 2(16QAMRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 17:52:34

Lowest channel

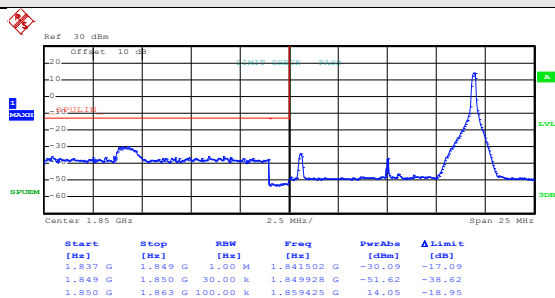


Date: 12.JUN.2016 17:57:12

Highest channel

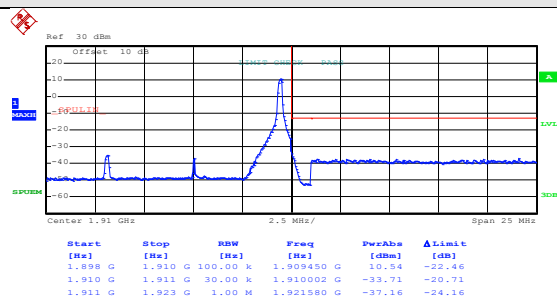
Test Mode:

LTE band 2(16QAMRB Size 1 &RB Offset 49)



Date: 12.JUN.2016 17:53:05

Lowest channel

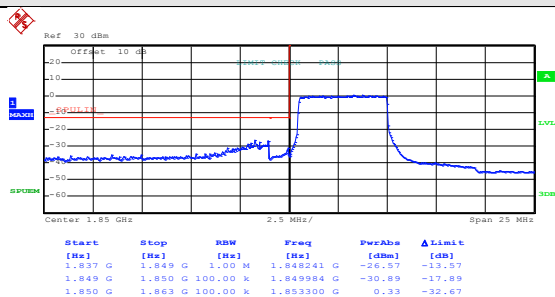


Date: 12.JUN.2016 17:57:48

Highest channel

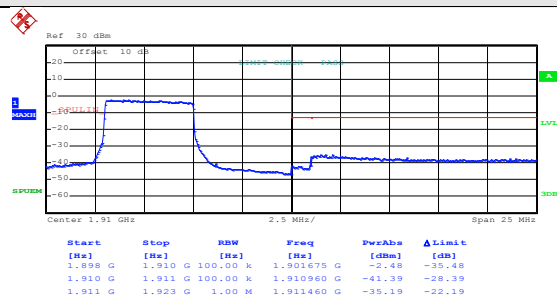
Test Mode:

LTE band 2(16QAMRB Size 25 &RB Offset 0)



Date: 12.JUN.2016 17:53:53

Lowest channel

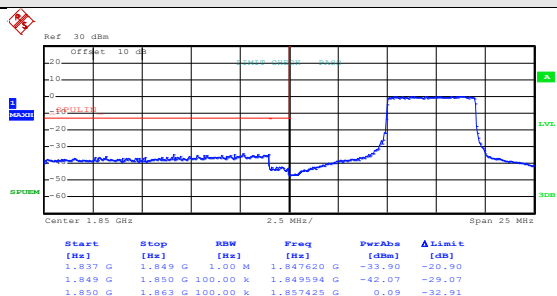


Date: 12.JUN.2016 17:59:24

Highest channel

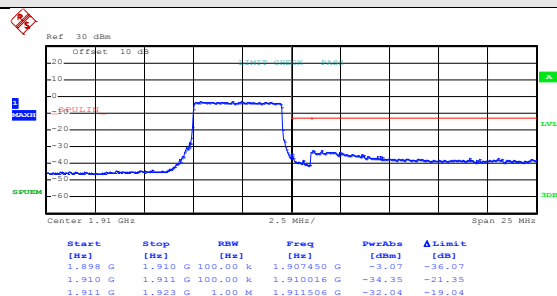
Test Mode:

LTE band 2(16QAMRB Size 25 &RB Offset 24)



Date: 12.JUN.2016 17:55:50

Lowest channel

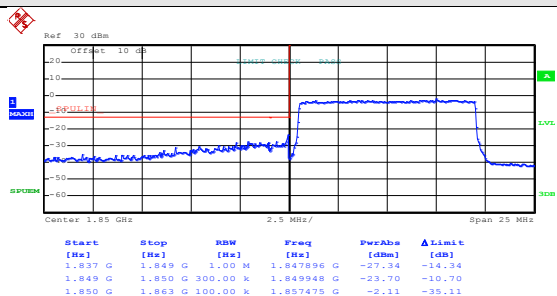


Date: 12.JUN.2016 17:59:54

Highest channel

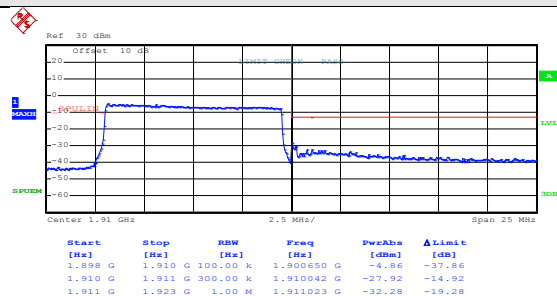
Test Mode:

LTE band 2(16QAMRB Size 50 &RB Offset 0)



Date: 12.JUN.2016 17:56:23

Lowest channel



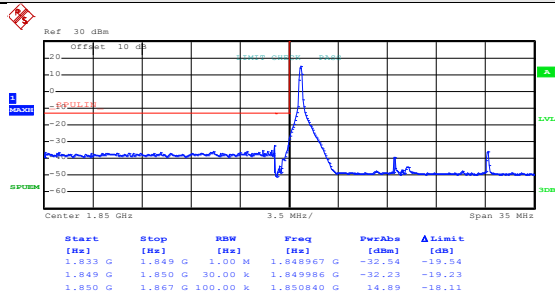
Date: 12.JUN.2016 18:00:23

Highest channel

15MHz:

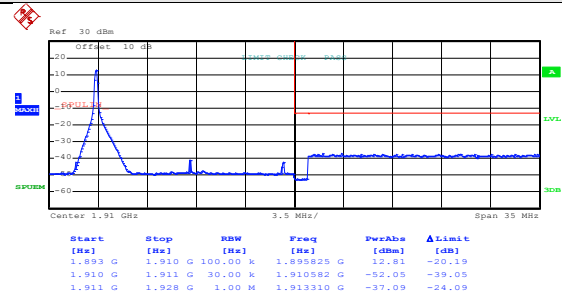
Test Mode:

LTE band 2(QPSKRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:09:10

Lowest channel

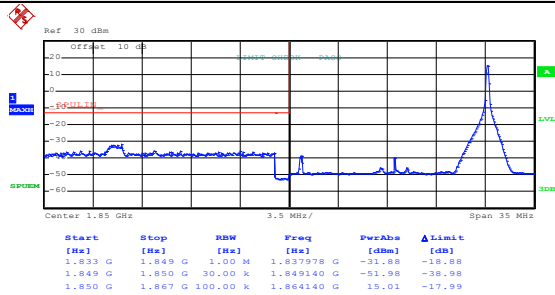


Date: 12.JUN.2016 18:13:18

Highest channel

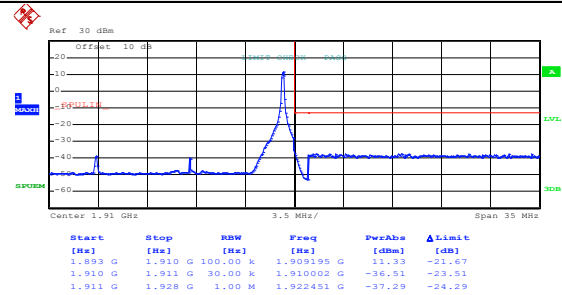
Test Mode:

LTE band 2(QPSKRB Size 1 &RB Offset 74)



Date: 12.JUN.2016 18:09:55

Lowest channel

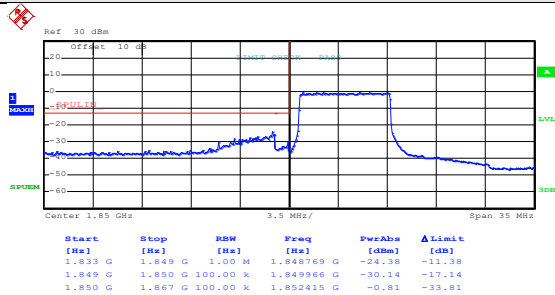


Date: 12.JUN.2016 18:13:48

Highest channel

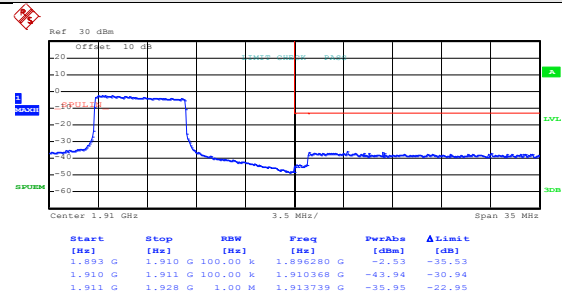
Test Mode:

LTE band 2(QPSKRB Size 36 &RB Offset 0)



Date: 12.JUN.2016 18:11:01

Lowest channel

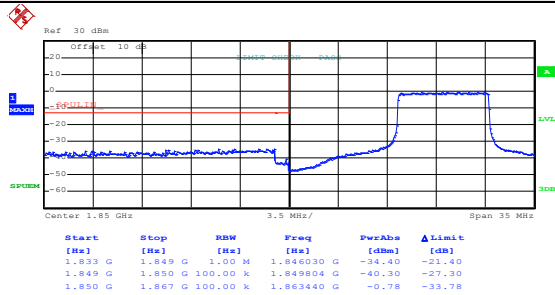


Date: 12.JUN.2016 18:14:23

Highest channel

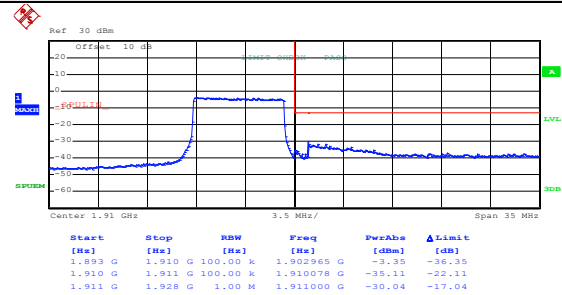
Test Mode:

LTE band 2(QPSKRB Size 36 &RB Offset 37)



Date: 12.JUN.2016 18:11:28

Lowest channel

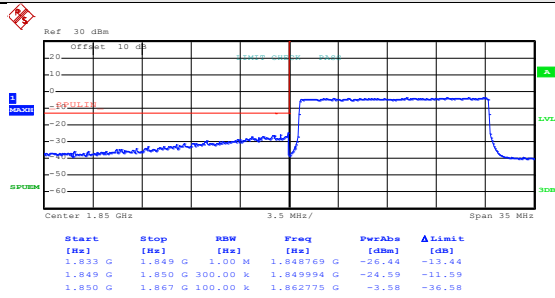


Date: 12.JUN.2016 18:14:49

Highest channel

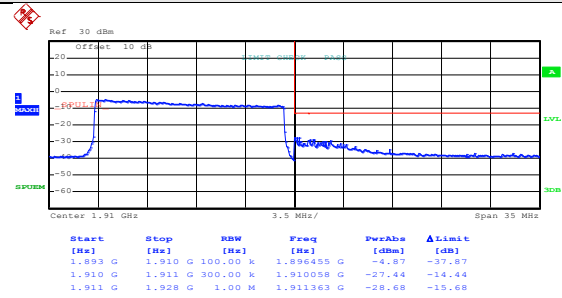
Test Mode:

LTE band 2(QPSKRB Size 75 &RB Offset 0)



Date: 12.JUN.2016 18:12:16

Lowest channel

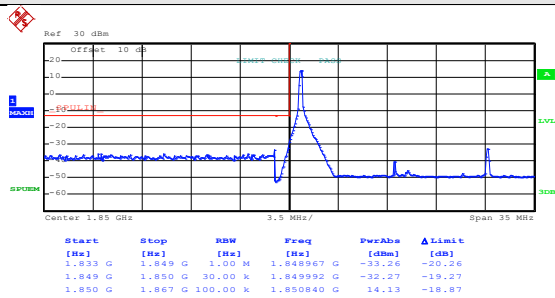


Date: 12.JUN.2016 18:15:21

Highest channel

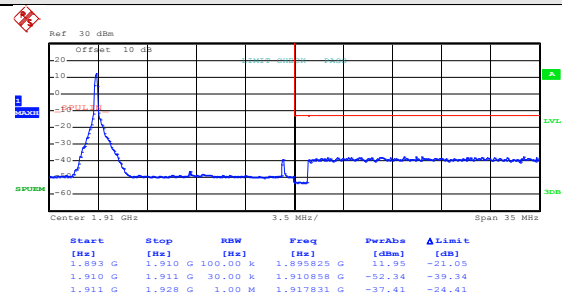
Test Mode:

LTE band 2(16QAMRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:09:31

Lowest channel

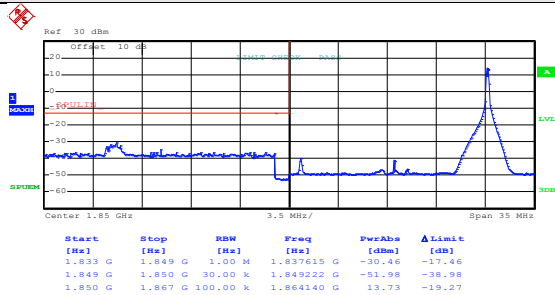


Date: 12.JUN.2016 18:13:35

Highest channel

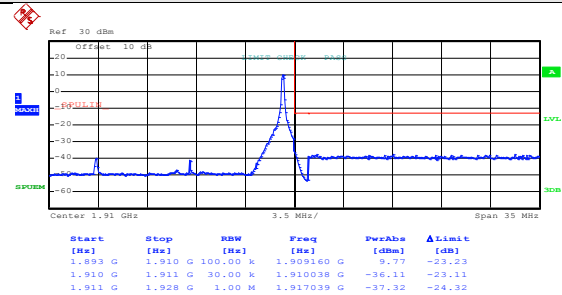
Test Mode:

LTE band 2(16QAMRB Size 1 &RB Offset 74)



Date: 12.JUN.2016 18:10:23

Lowest channel

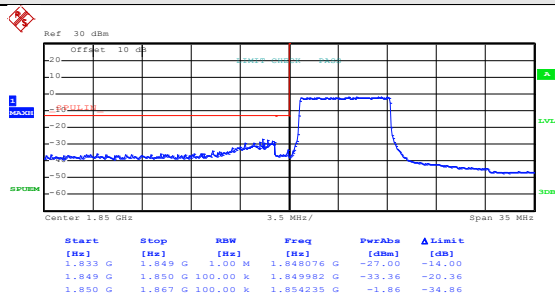


Date: 12.JUN.2016 18:13:58

Highest channel

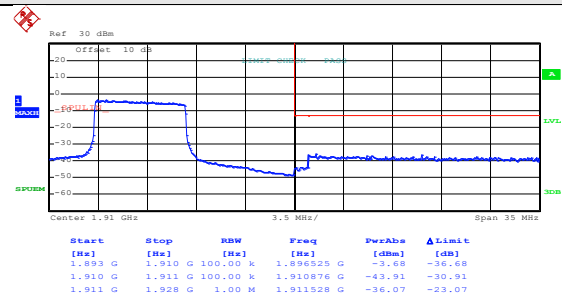
Test Mode:

LTE band 2(16QAMRB Size 36 &RB Offset 0)



Date: 12.JUN.2016 18:11:16

Lowest channel

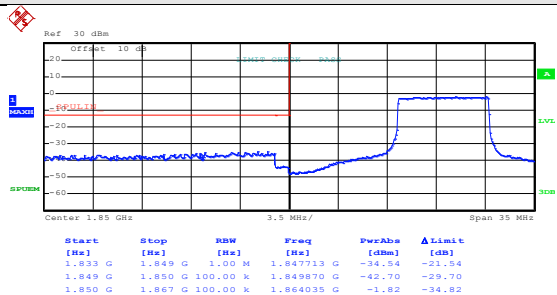


Date: 12.JUN.2016 18:14:31

Highest channel

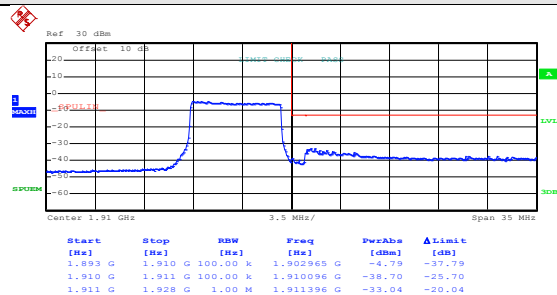
Test Mode:

LTE band 2(16QAMRB Size 36 &RB Offset 37)



Date: 12.JUN.2016 18:11:38

Lowest channel

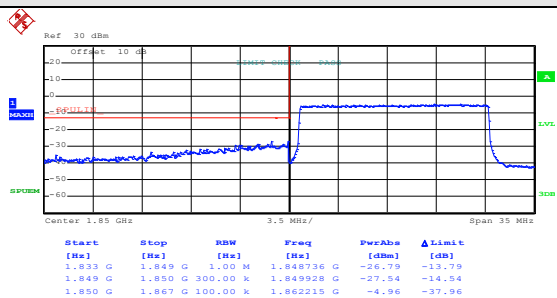


Date: 12.JUN.2016 18:14:59

Highest channel

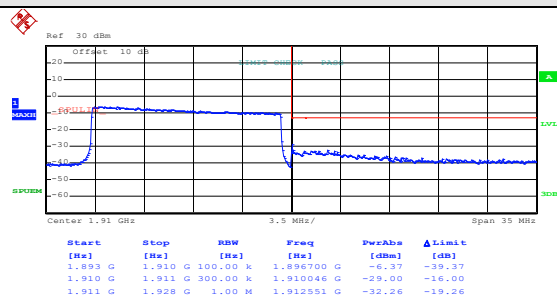
Test Mode:

LTE band 2(16QAMRB Size 75 &RB Offset 0)



Date: 12.JUN.2016 18:12:25

Lowest channel



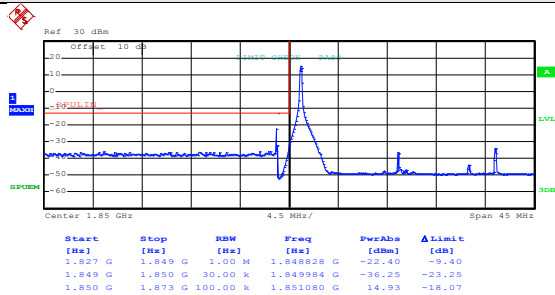
Date: 12.JUN.2016 18:15:27

Highest channel

20MHz:

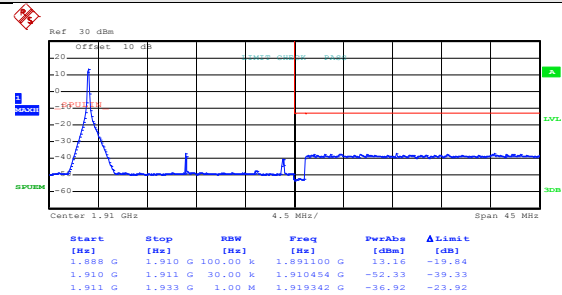
Test Mode:

LTE band 2(QPSKRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:16:32

Lowest channel

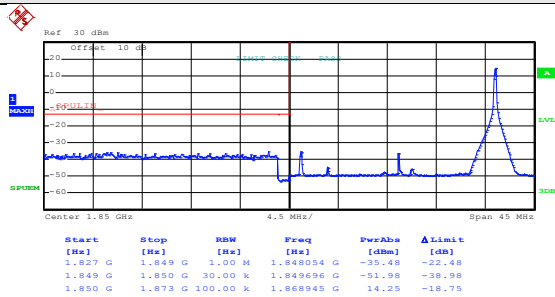


Date: 12.JUN.2016 18:19:19

Highest channel

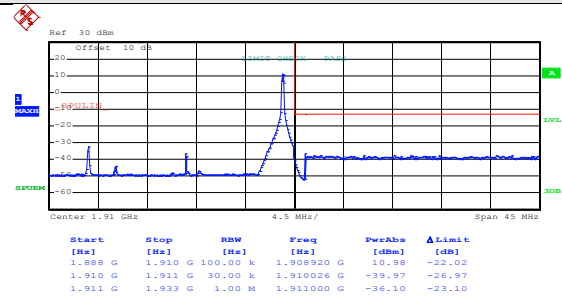
Test Mode:

LTE band 2(QPSKRB Size 1 &RB Offset 99)



Date: 12.JUN.2016 18:17:15

Lowest channel

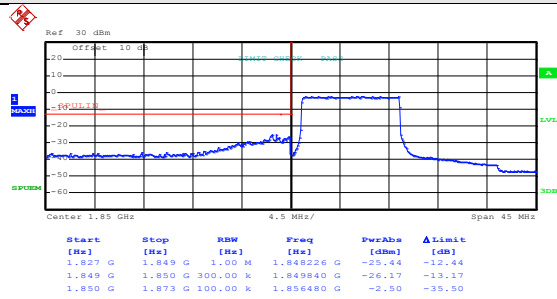


Date: 12.JUN.2016 18:19:44

Highest channel

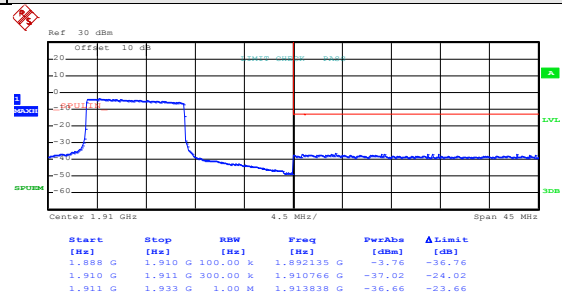
Test Mode:

LTE band 2(QPSKRB Size 50 &RB Offset 0)



Date: 12.JUN.2016 18:17:47

Lowest channel

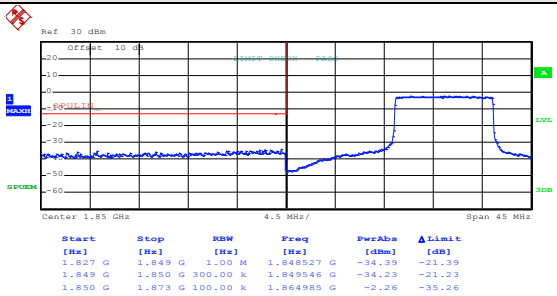


Date: 12.JUN.2016 18:20:20

Highest channel

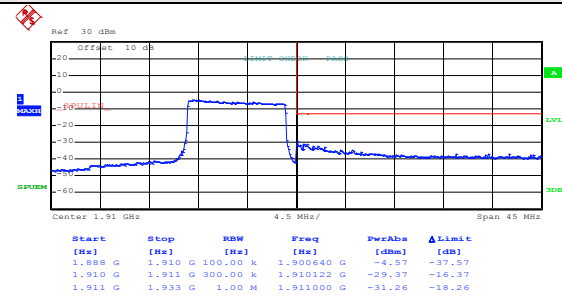
Test Mode:

LTE band 2(QPSKRB Size 50 &RB Offset 49)



Date: 12.JUN.2016 18:18:11

Lowest channel

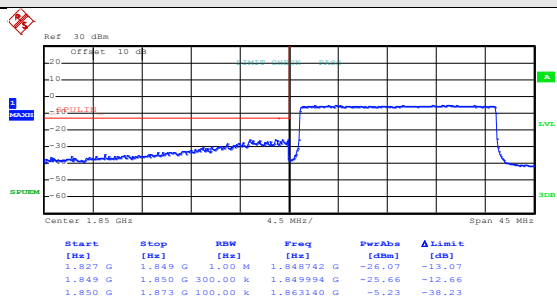


Date: 12.JUN.2016 18:20:43

Highest channel

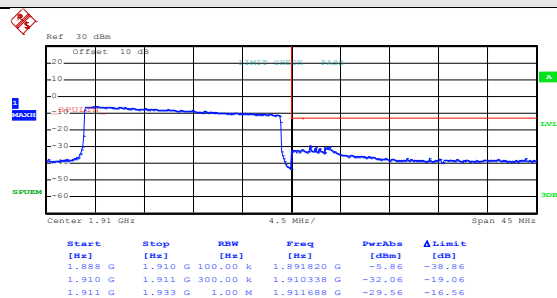
Test Mode:

LTE band 2(QPSKRB Size 100 &RB Offset 0)



Date: 12.JUN.2016 18:18:35

Lowest channel

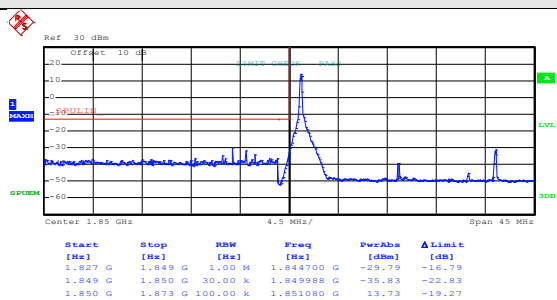


Date: 12.JUN.2016 18:21:12

Highest channel

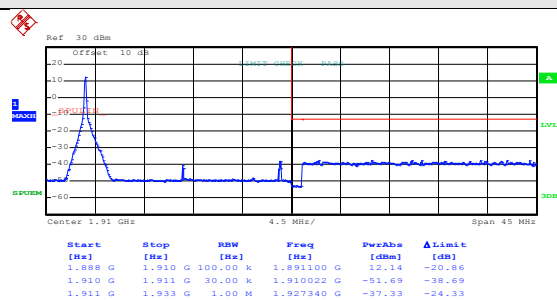
Test Mode:

LTE band 2(16QAMRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:16:40

Lowest channel

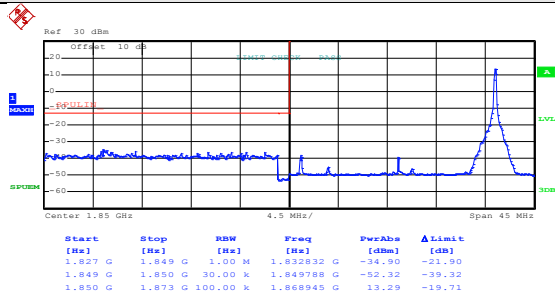


Date: 12.JUN.2016 18:19:32

Highest channel

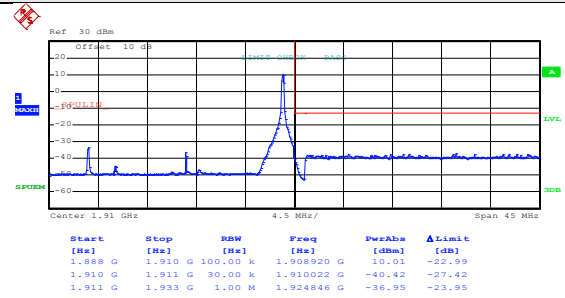
Test Mode:

LTE band 2(16QAMRB Size 1 &RB Offset 99)



Date: 12.JUN.2016 18:17:24

Lowest channel

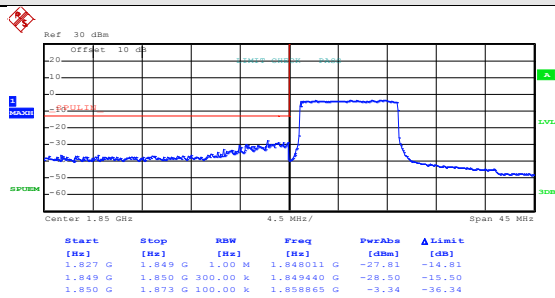


Date: 12.JUN.2016 18:19:53

Highest channel

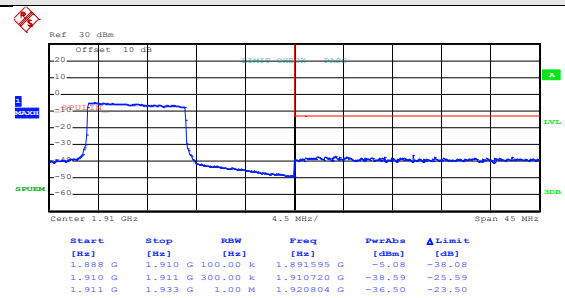
Test Mode:

LTE band 2(16QAMRB Size 50 &RB Offset 0)



Date: 12.JUN.2016 18:17:57

Lowest channel

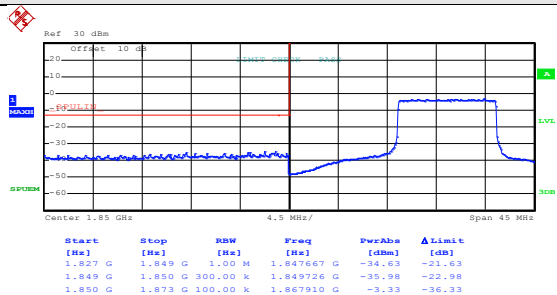


Date: 12.JUN.2016 18:20:29

Highest channel

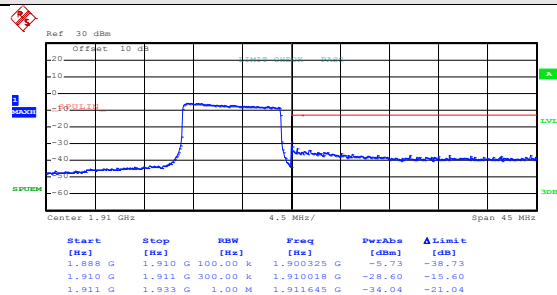
Test Mode:

LTE band 2(16QAMRB Size 50 &RB Offset 49)



Date: 12.JUN.2016 18:18:22

Lowest channel

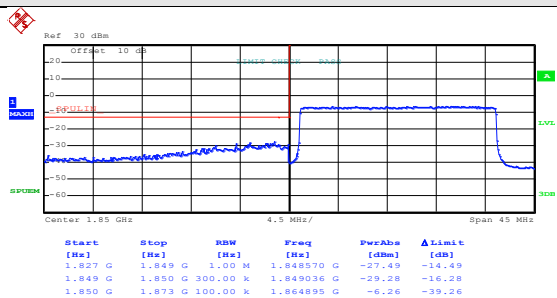


Date: 12.JUN.2016 18:20:52

Highest channel

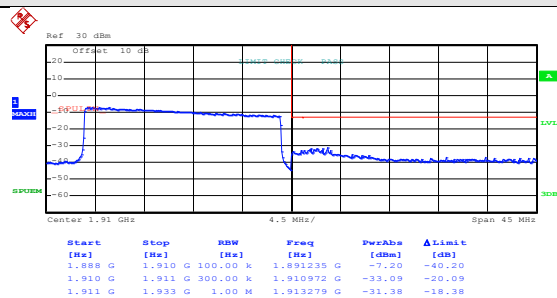
Test Mode:

LTE band 2(16QAMRB Size 100 &RB Offset 0)



Date: 12.JUN.2016 18:18:42

Lowest channel



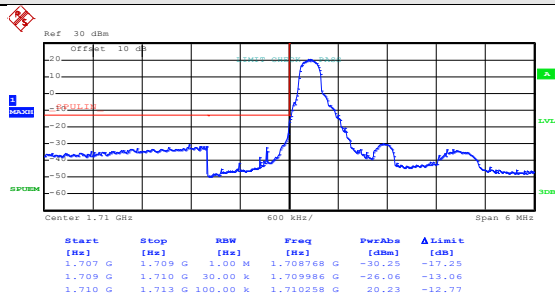
Date: 12.JUN.2016 18:21:21

Highest channel

LTE band 4 part:1.4MHz:

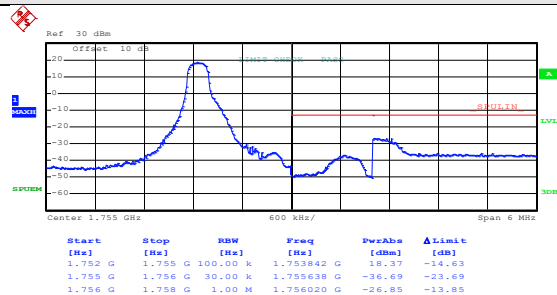
Test Mode:

LTE band 4(QPSKRB Size 1 &RB Offset0)



Date: 12.JUN.2016 18:27:36

Lowest channel

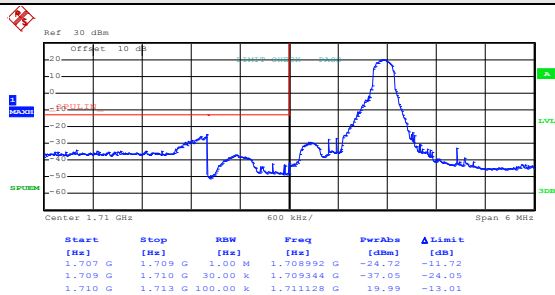


Date: 12.JUN.2016 18:29:53

Highest channel

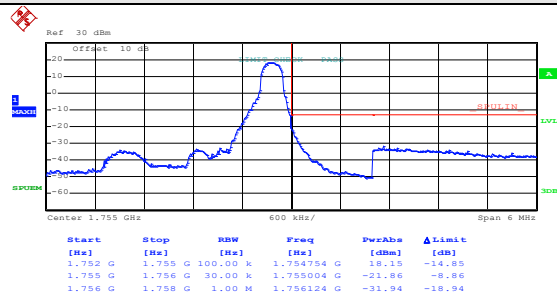
Test Mode:

LTE band 4(QPSKRB Size 1 &RB Offset5)



Date: 12.JUN.2016 18:28:01

Lowest channel

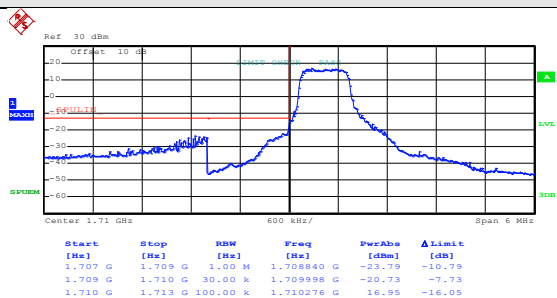


Date: 12.JUN.2016 18:30:16

Highest channel

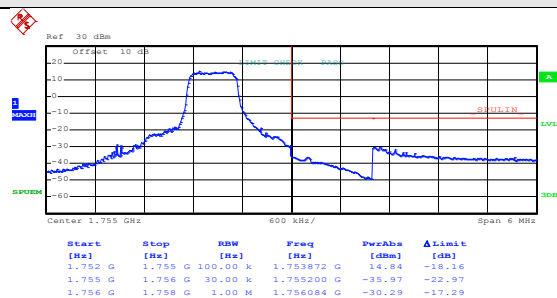
Test Mode:

LTE band 4(QPSKRB Size 3 &RB Offset0)



Date: 12.JUN.2016 18:28:33

Lowest channel

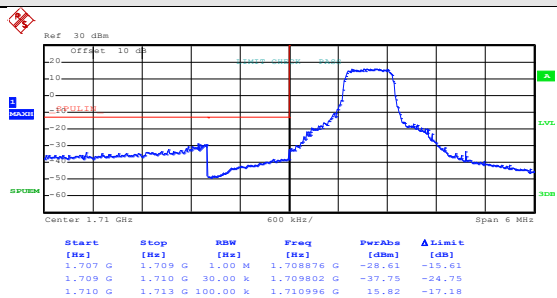


Date: 12.JUN.2016 18:30:38

Highest channel

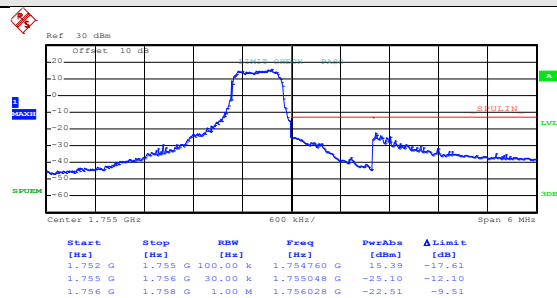
Test Mode:

LTE band 4(QPSKRB Size 3 &RB Offset 2)



Date: 12.JUN.2016 18:28:53

Lowest channel

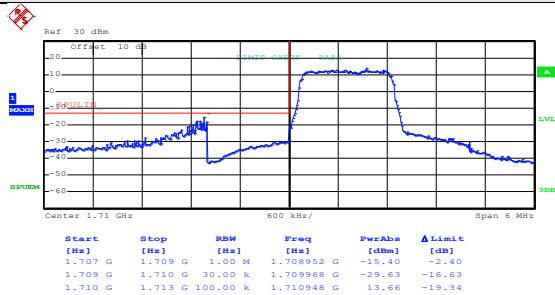


Date: 12.JUN.2016 18:30:54

Highest channel

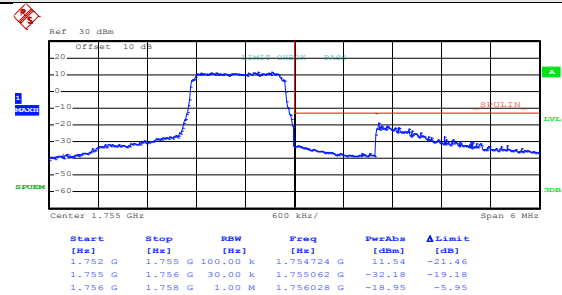
Test Mode:

LTE band 4(QPSK RB Size 6 &RB Offset 0)



Date: 12.JUN.2016 18:29:12

Lowest channel

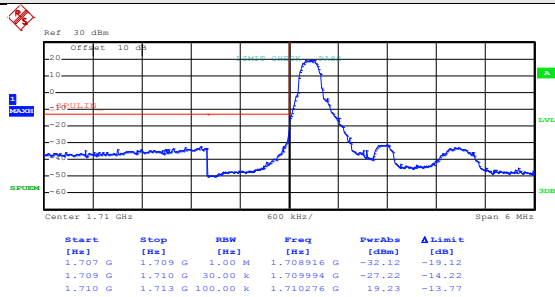


Date: 12.JUN.2016 18:31:13

Highest channel

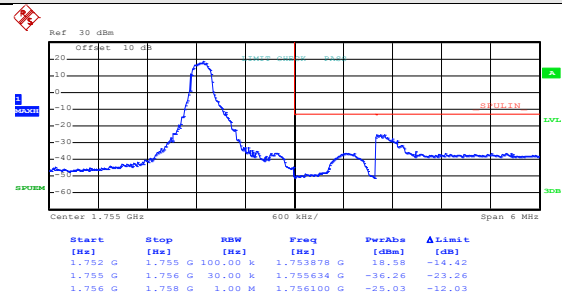
Test Mode:

LTE band 4(16QAMRB Size 1 &RB Offset0)



Date: 12.JUN.2016 18:27:44

Lowest channel

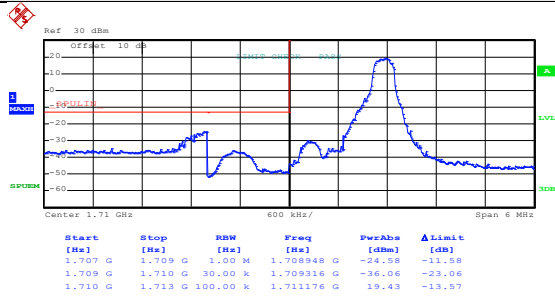


Date: 12.JUN.2016 18:30:02

Highest channel

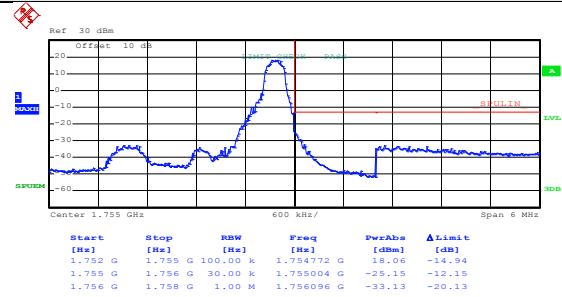
Test Mode:

LTE band 4(16QAMRB Size 1 &RB Offset5)



Date: 12.JUN.2016 18:28:13

Lowest channel

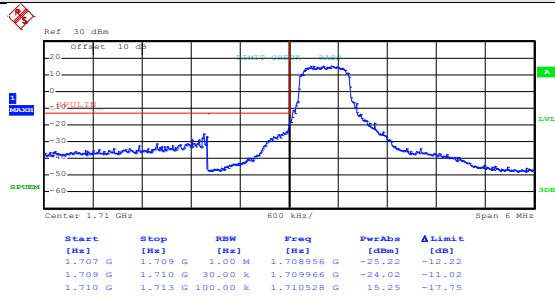


Date: 12.JUN.2016 18:30:24

Highest channel

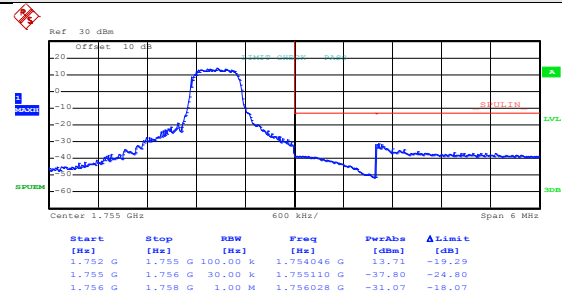
Test Mode:

LTE band 4(16QAMRB Size 3 &RB Offset0)



Date: 12.JUN.2016 18:28:41

Lowest channel

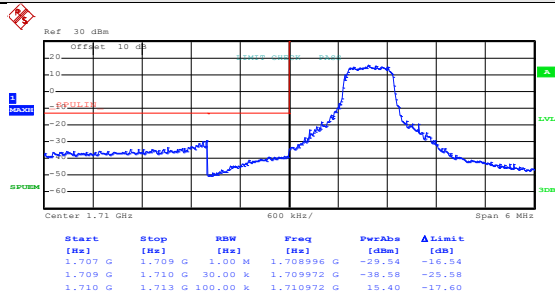


Date: 12.JUN.2016 18:30:44

Highest channel

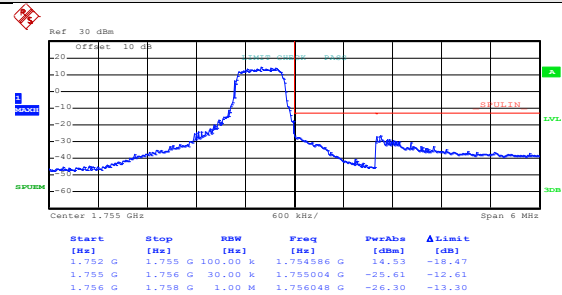
Test Mode:

LTE band 4(16QAMRB Size 3 &RB Offset 2)



Date: 12.JUN.2016 18:29:00

Lowest channel

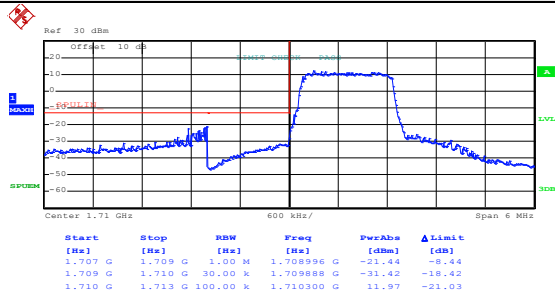


Date: 12.JUN.2016 18:31:01

Highest channel

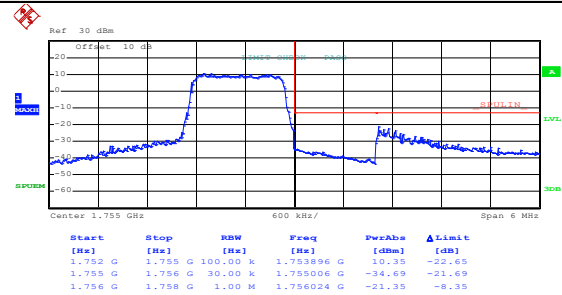
Test Mode:

LTE band 4(16QAMRB Size 6 &RB Offset 0)



Date: 12.JUN.2016 18:29:18

Lowest channel



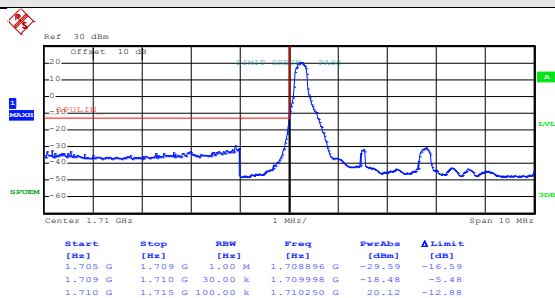
Date: 12.JUN.2016 18:31:20

Highest channel

3MHz:

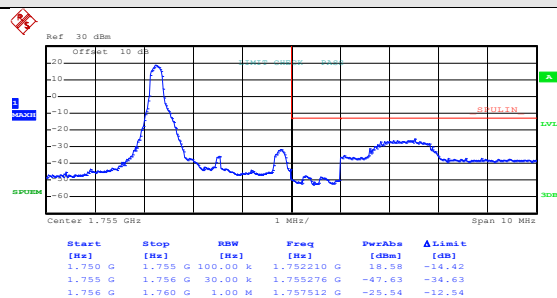
Test Mode:

LTE band 4(QPSKRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:32:54

Lowest channel

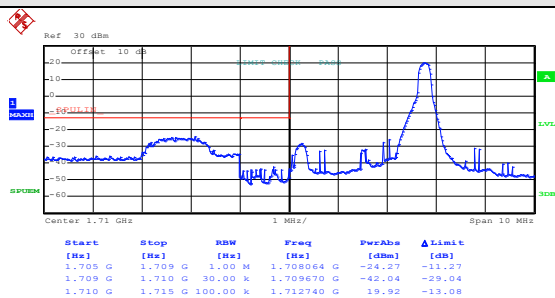


Date: 12.JUN.2016 18:36:01

Highest channel

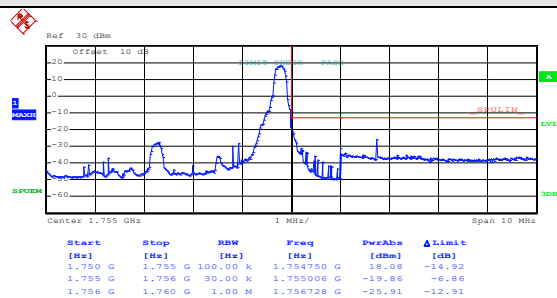
Test Mode:

LTE band 4(QPSK RB Size 1 &RB Offset 14)



Date: 12.JUN.2016 18:33:22

Lowest channel

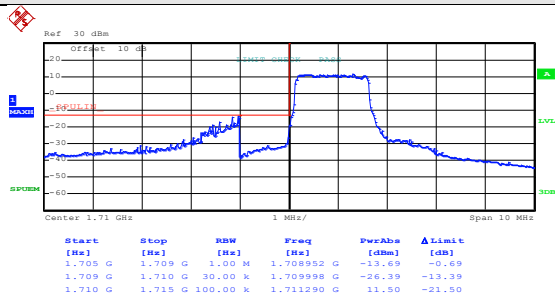


Date: 12.JUN.2016 18:36:23

Highest channel

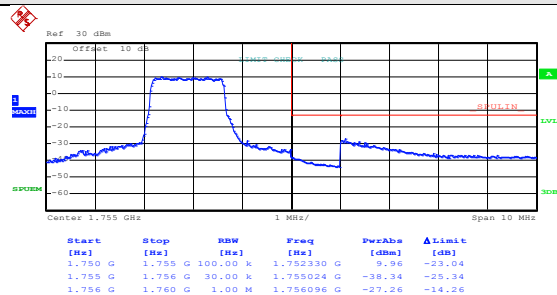
Test Mode:

LTE band 4(QPSKRB Size 8 &RB Offset 0)



Date: 12.JUN.2016 18:33:47

Lowest channel

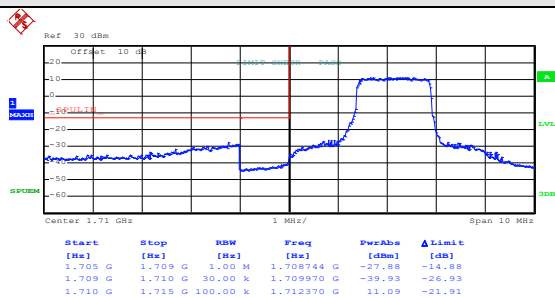


Date: 12.JUN.2016 18:36:47

Highest channel

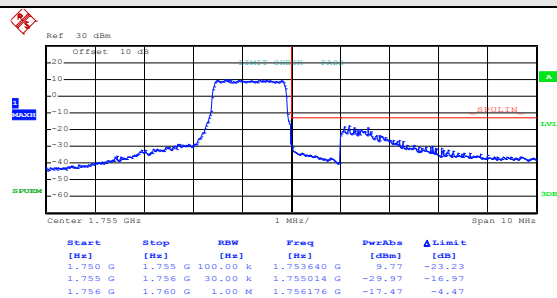
Test Mode:

LTE band 4(QPSK RB Size 8 &RB Offset 7)



Date: 12.JUN.2016 18:34:12

Lowest channel

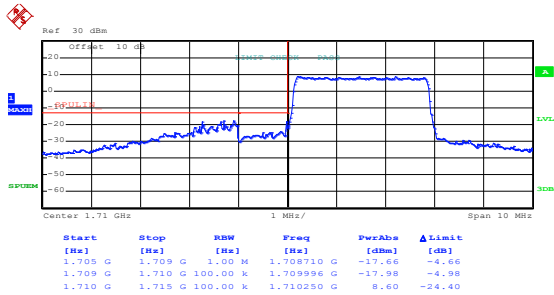


Date: 12.JUN.2016 18:37:11

Highest channel

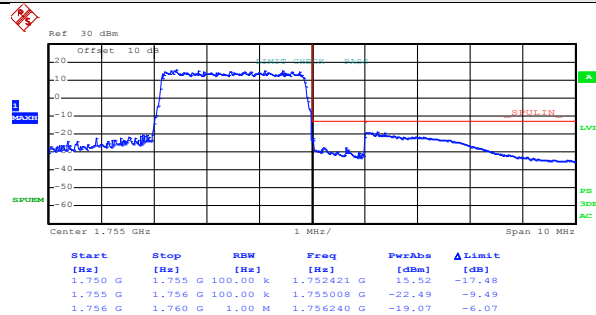
Test Mode:

LTE band 4(QPSK RB Size 15 &RB Offset 0)



Date: 12.JUN.2016 18:35:11

Lowest channel

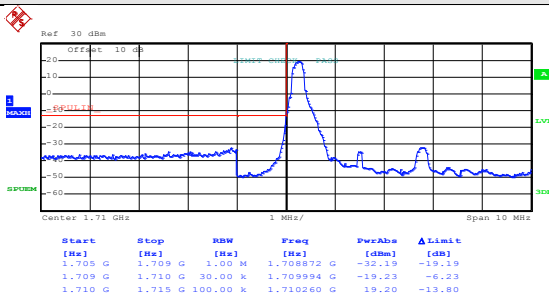


Date: 3.MAY.2016 21:16:46

Highest channel

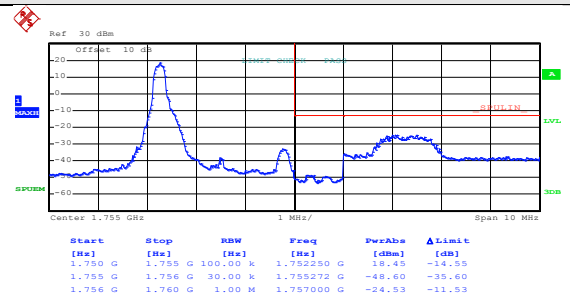
Test Mode:

LTE band 4(16QAMRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:33:01

Lowest channel

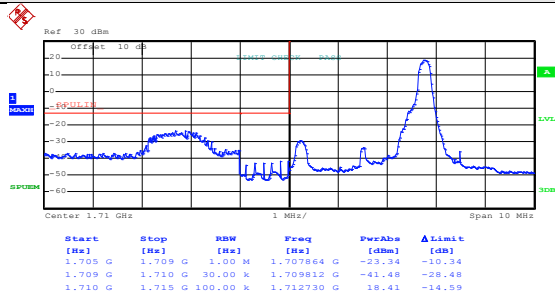


Date: 12.JUN.2016 18:36:09

Highest channel

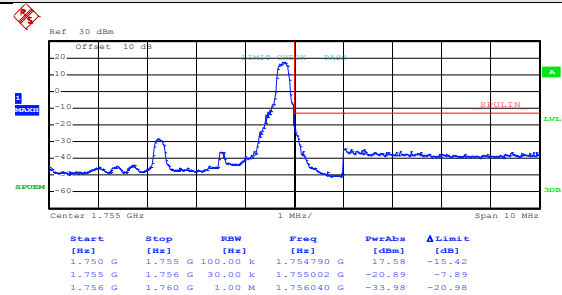
Test Mode:

LTE band 4(16QAMRB Size 1 &RB Offset 14)



Date: 12.JUN.2016 18:33:30

Lowest channel

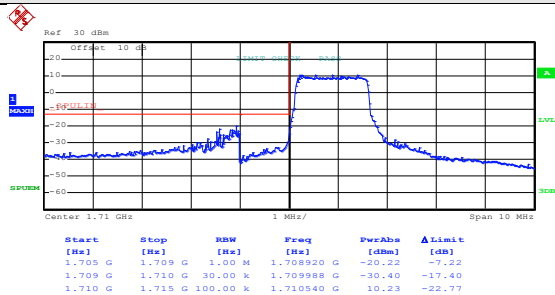


Date: 12.JUN.2016 18:36:31

Highest channel

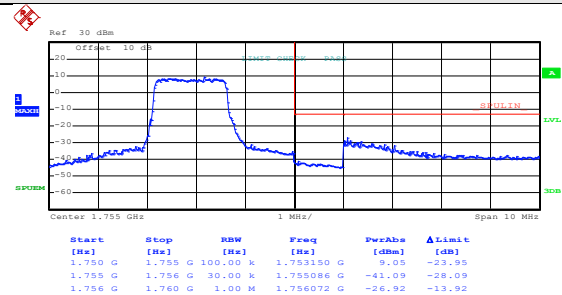
Test Mode:

LTE band 4(16QAMRB Size 8 &RB Offset 0)



Date: 12.JUN.2016 18:33:54

Lowest channel

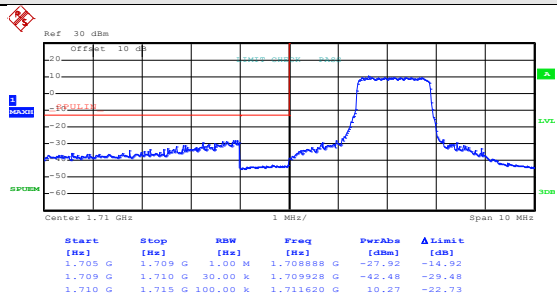


Date: 12.JUN.2016 18:36:54

Highest channel

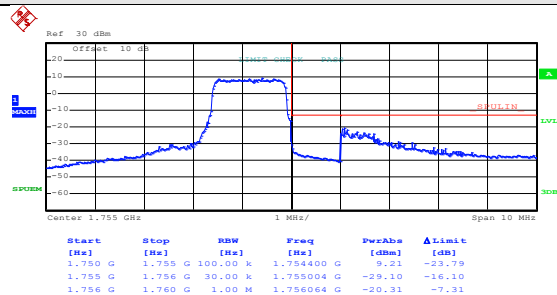
Test Mode:

LTE band 4(16QAMRB Size 8 &RB Offset 7)



Date: 12.JUN.2016 18:34:19

Lowest channel

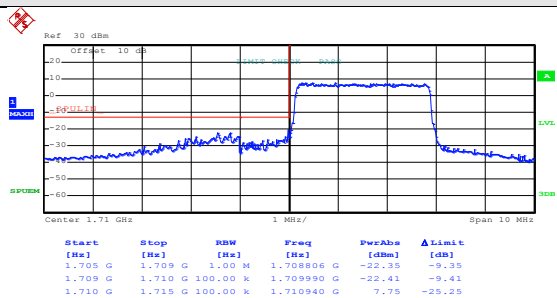


Date: 12.JUN.2016 18:37:28

Highest channel

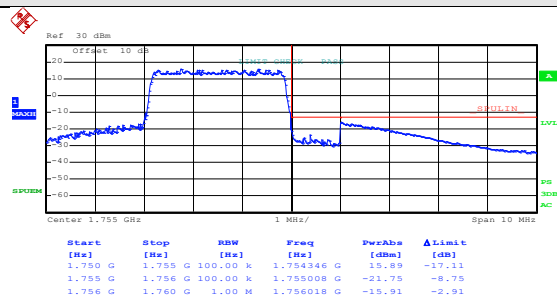
Test Mode:

LTE band 4(16QAMRB Size 15 &RB Offset 0)



Date: 12.JUN.2016 18:35:18

Lowest channel



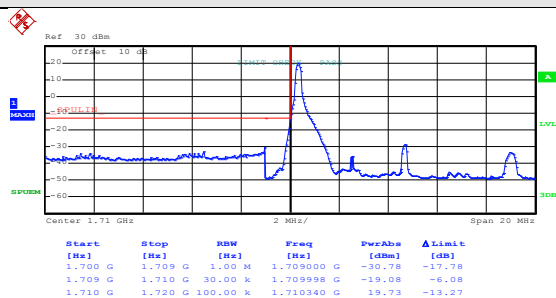
Date: 3.MAY.2016 21:18:20

Highest channel

5MHz:

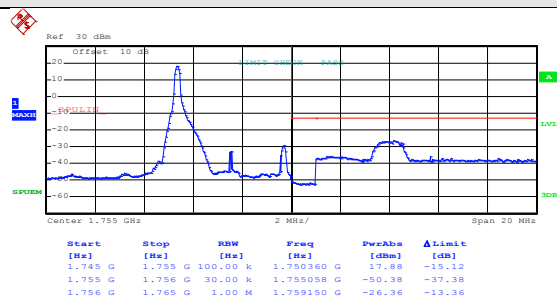
Test Mode:

LTE band 4(QPSKRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:40:41

Lowest channel

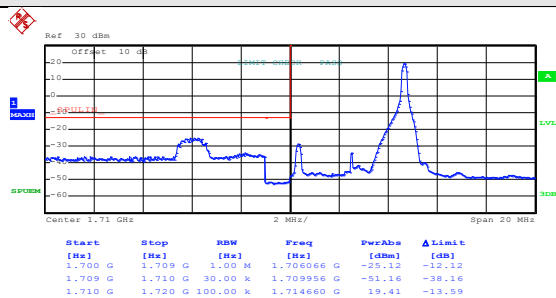


Date: 12.JUN.2016 18:43:44

Highest channel

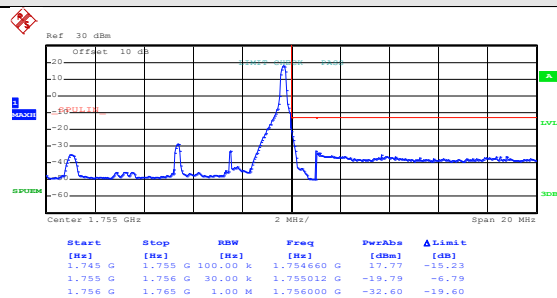
Test Mode:

LTE band 4(QPSKRB Size 1 &RB Offset 24)



Date: 12.JUN.2016 18:41:06

Lowest channel

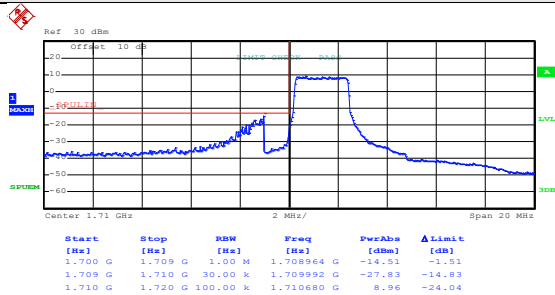


Date: 12.JUN.2016 18:44:16

Highest channel

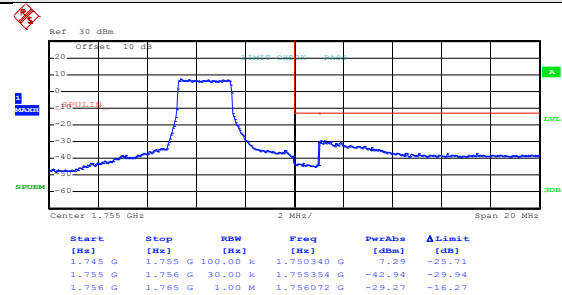
Test Mode:

LTE band 4(QPSKRB Size 12 &RB Offset 0)



Date: 12.JUN.2016 18:41:31

Lowest channel

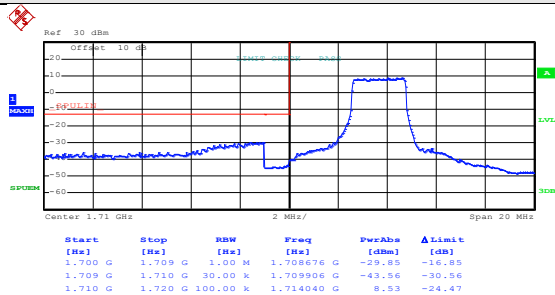


Date: 12.JUN.2016 18:44:38

Highest channel

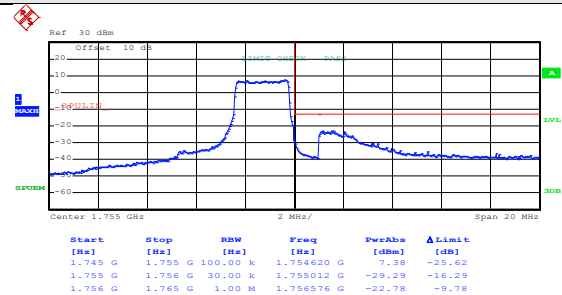
Test Mode:

LTE band 4(QPSKRB Size 12 &RB Offset 11)



Date: 12.JUN.2016 18:42:18

Lowest channel

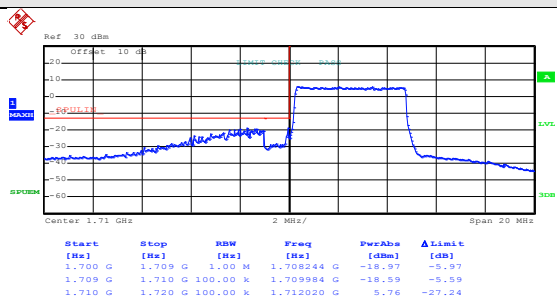


Date: 12.JUN.2016 18:45:01

Highest channel

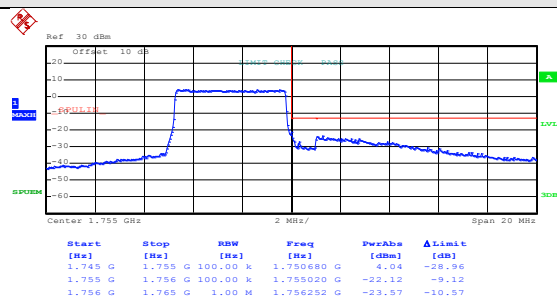
Test Mode:

LTE band 4(QPSKRB Size 25 &RB Offset 0)



Date: 12.JUN.2016 18:43:00

Lowest channel

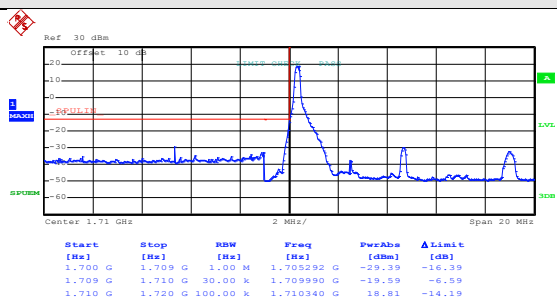


Date: 12.JUN.2016 18:45:30

Highest channel

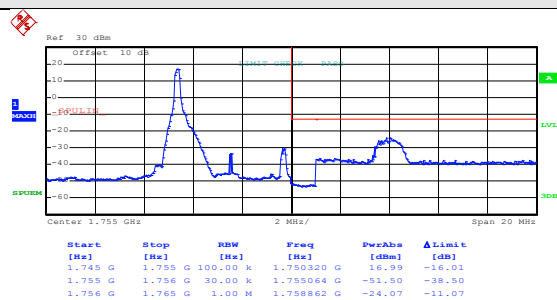
Test Mode:

LTE band 4(16QAMRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:40:55

Lowest channel

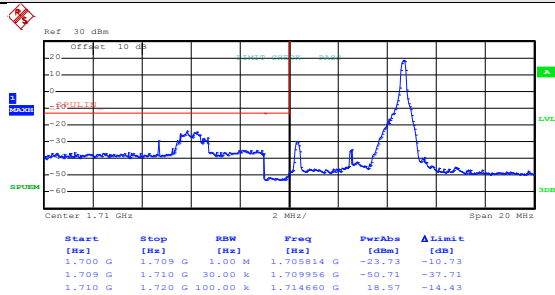


Date: 12.JUN.2016 18:43:54

Highest channel

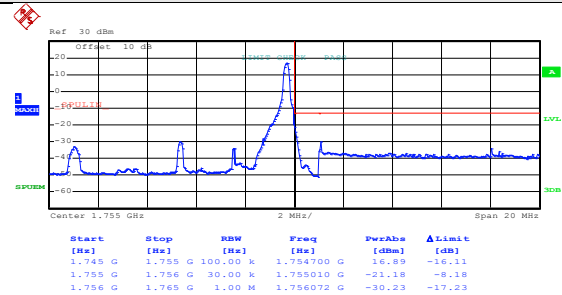
Test Mode:

LTE band 4(16QAMRB Size 1 &RB Offset 24)



Date: 12.JUN.2016 18:41:15

Lowest channel

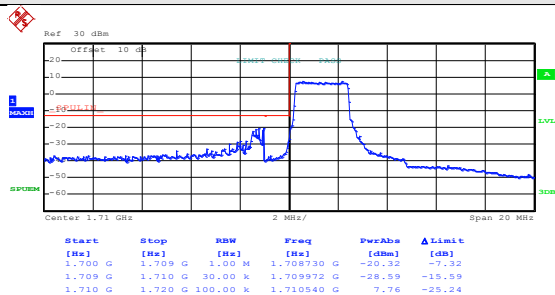


Date: 12.JUN.2016 18:44:25

Highest channel

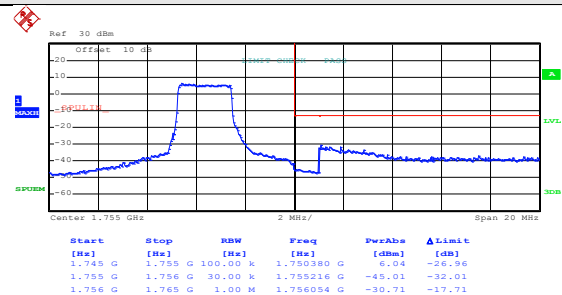
Test Mode:

LTE band 4(16QAMRB Size 12 &RB Offset 0)



Date: 12.JUN.2016 18:42:00

Lowest channel

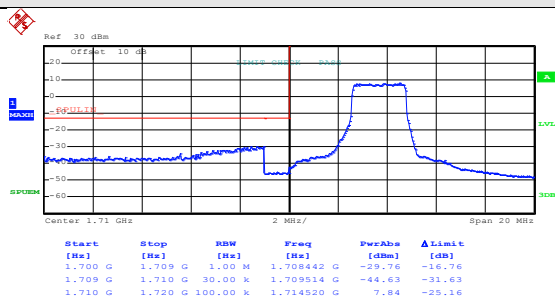


Date: 12.JUN.2016 18:44:47

Highest channel

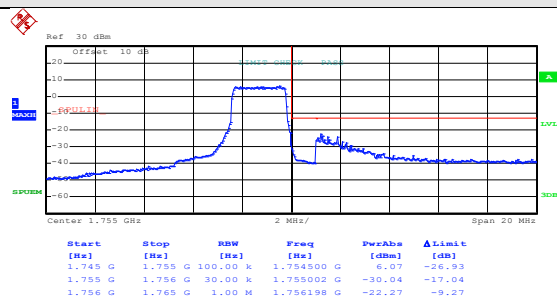
Test Mode:

LTE band 4(16QAMRB Size 12 &RB Offset 11)



Date: 12.JUN.2016 18:42:34

Lowest channel

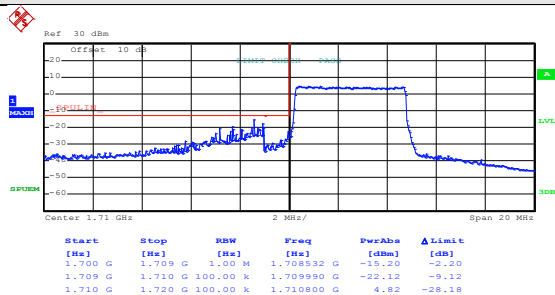


Date: 12.JUN.2016 18:45:11

Highest channel

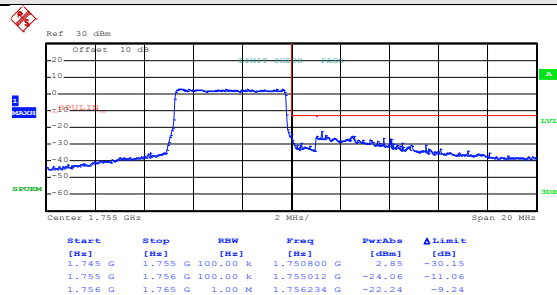
Test Mode:

LTE band 4(16QAMRB Size 25 &RB Offset 0)



Date: 12.JUN.2016 18:43:07

Lowest channel



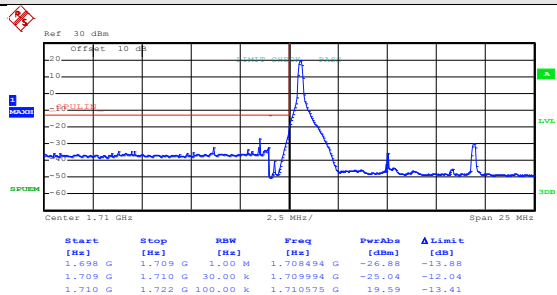
Date: 12.JUN.2016 18:45:37

Highest channel

10MHz:

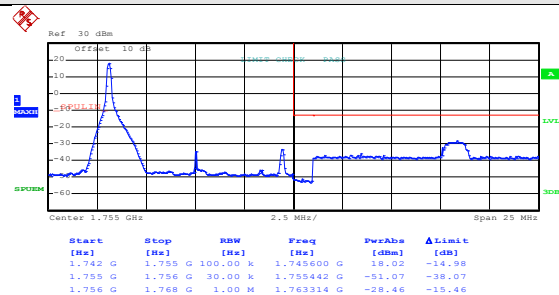
Test Mode:

LTE band 4(QPSKRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:46:49

Lowest channel

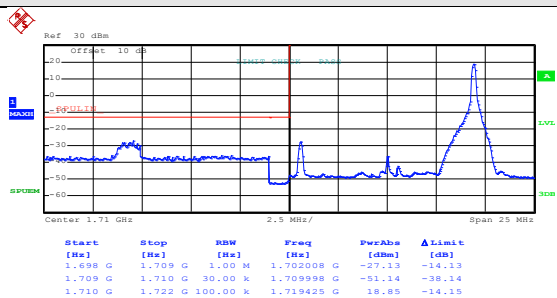


Date: 12.JUN.2016 18:49:22

Highest channel

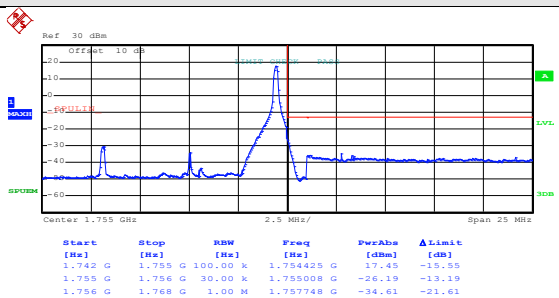
Test Mode:

LTE band 4(QPSKRB Size 1 &RB Offset 49)



Date: 12.JUN.2016 18:47:08

Lowest channel

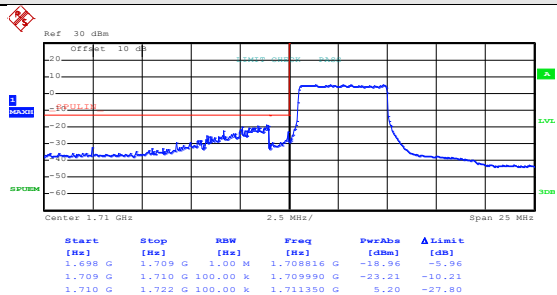


Date: 12.JUN.2016 18:49:50

Highest channel

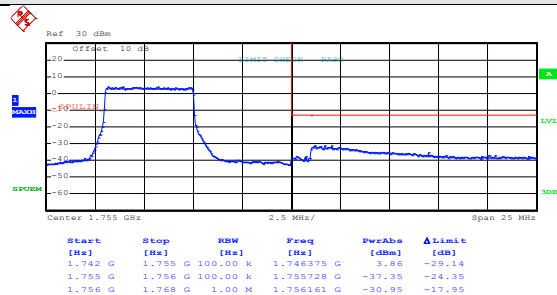
Test Mode:

LTE band 4(QPSKRB Size 25 &RB Offset 0)



Date: 12.JUN.2016 18:47:44

Lowest channel

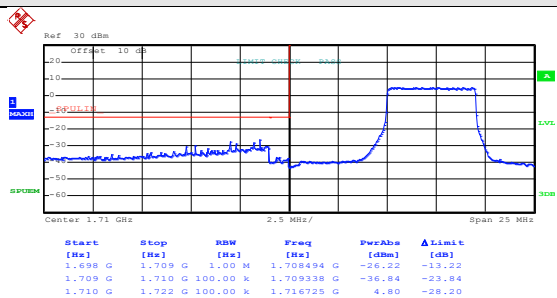


Date: 12.JUN.2016 18:50:25

Highest channel

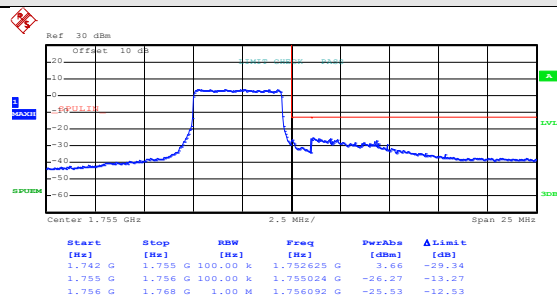
Test Mode:

LTE band 4(QPSKRB Size 25 &RB Offset 24)



Date: 12.JUN.2016 18:48:06

Lowest channel

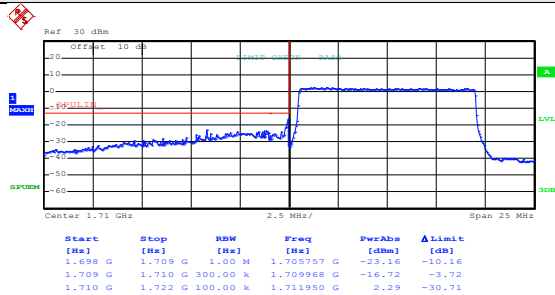


Date: 12.JUN.2016 18:50:45

Highest channel

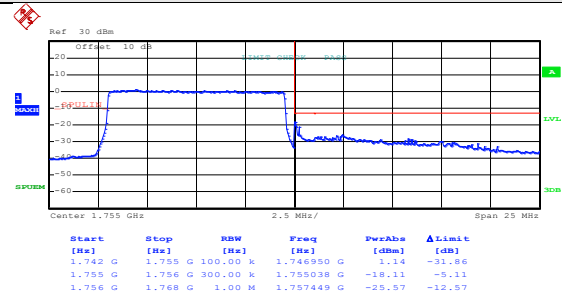
Test Mode:

LTE band 4(QPSKRB Size 50 &RB Offset 0)



Date: 12.JUN.2016 18:48:37

Lowest channel

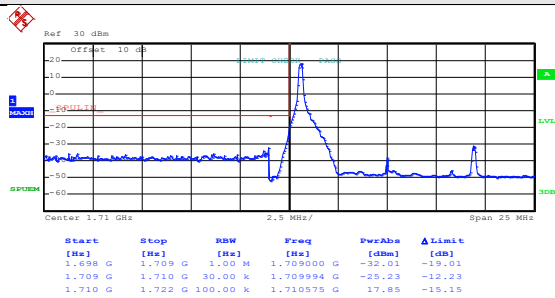


Date: 12.JUN.2016 18:51:17

Highest channel

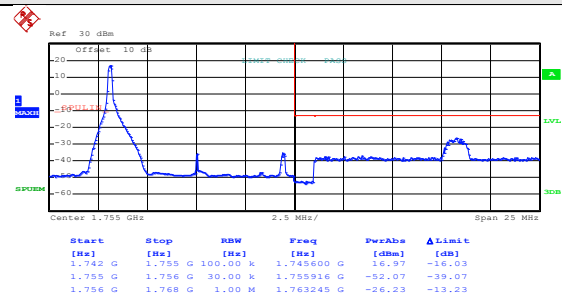
Test Mode:

LTE band 4(16QAMRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:46:56

Lowest channel

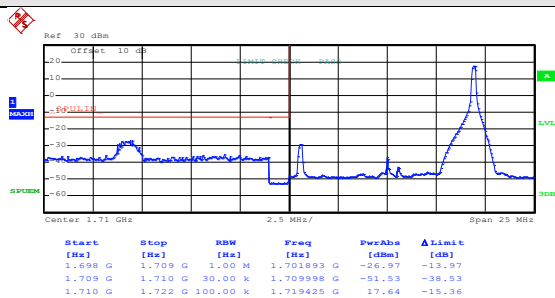


Date: 12.JUN.2016 18:49:32

Highest channel

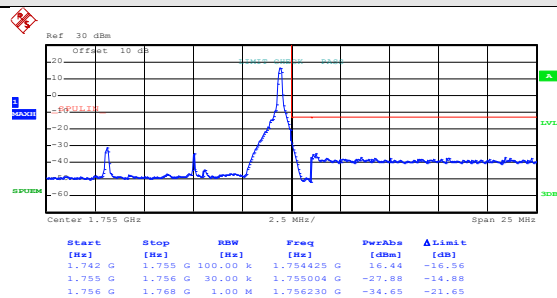
Test Mode:

LTE band 4(16QAMRB Size 1 &RB Offset 49)



Date: 12.JUN.2016 18:47:18

Lowest channel

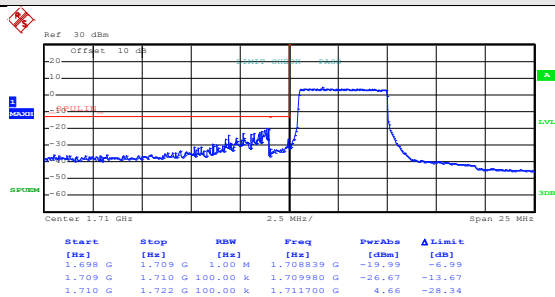


Date: 12.JUN.2016 18:50:00

Highest channel

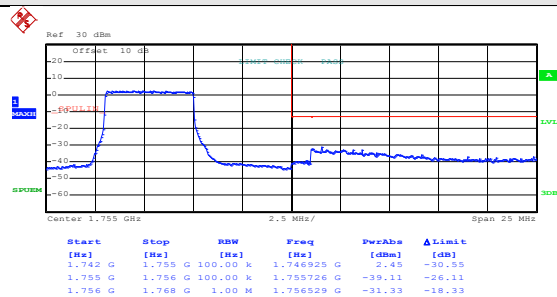
Test Mode:

LTE band 4(16QAMRB Size 25 &RB Offset 0)



Date: 12.JUN.2016 18:47:52

Lowest channel

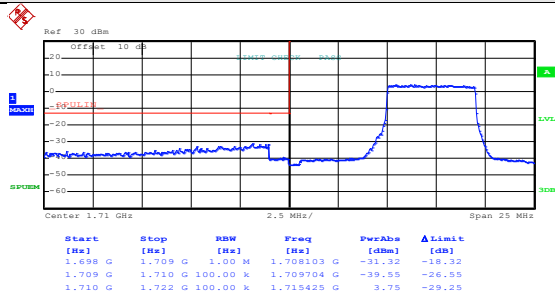


Date: 12.JUN.2016 18:50:33

Highest channel

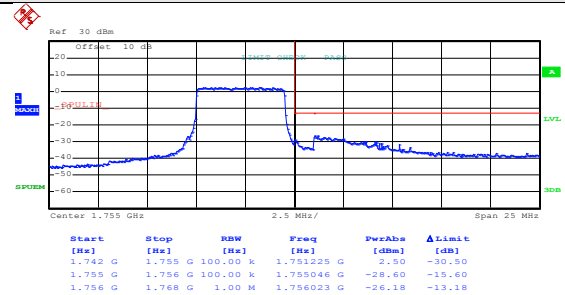
Test Mode:

LTE band 4(16QAMRB Size 25 &RB Offset 24)



Date: 12.JUN.2016 18:48:16

Lowest channel

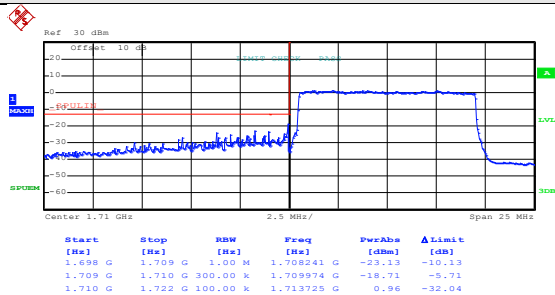


Date: 12.JUN.2016 18:50:55

Highest channel

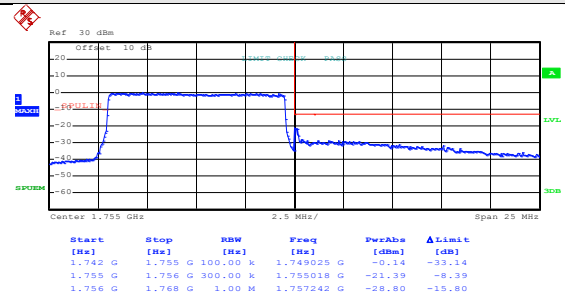
Test Mode:

LTE band 4(16QAMRB Size 50 &RB Offset 0)



Date: 12.JUN.2016 18:48:43

Lowest channel



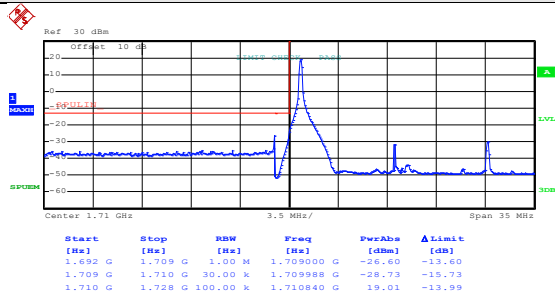
Date: 12.JUN.2016 18:51:25

Highest channel

15MHz:

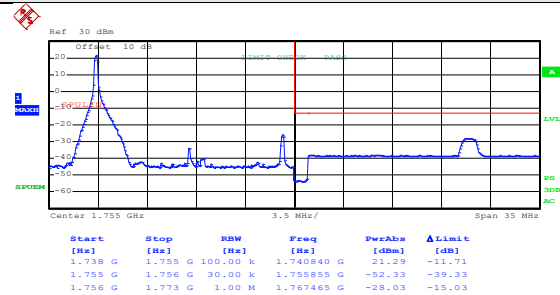
Test Mode:

LTE band 4(QPSKRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:52:26

Lowest channel

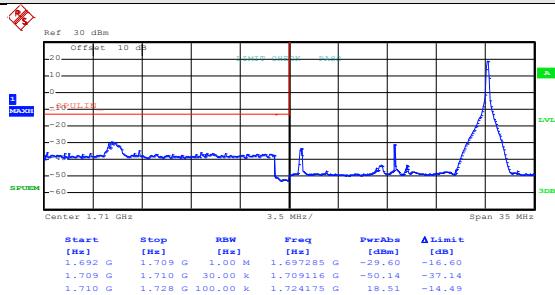


Date: 3.MAY.2016 21:40:42

Highest channel

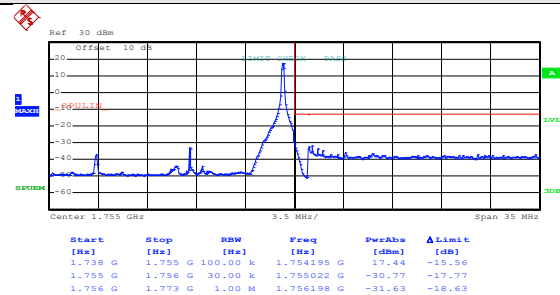
Test Mode:

LTE band 4(QPSKRB Size 1 &RB Offset 74)



Date: 12.JUN.2016 18:52:47

Lowest channel

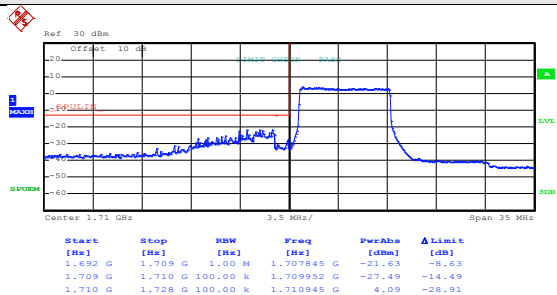


Date: 12.JUN.2016 18:55:31

Highest channel

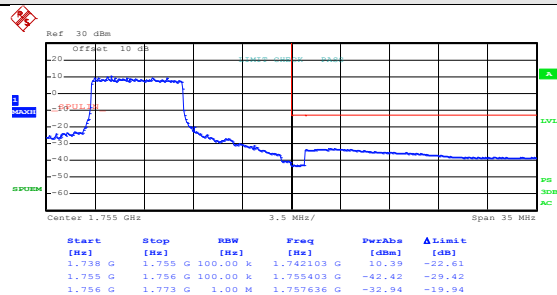
Test Mode:

LTE band 4(QPSKRB Size 36 &RB Offset 0)



Date: 12.JUN.2016 18:53:21

Lowest channel

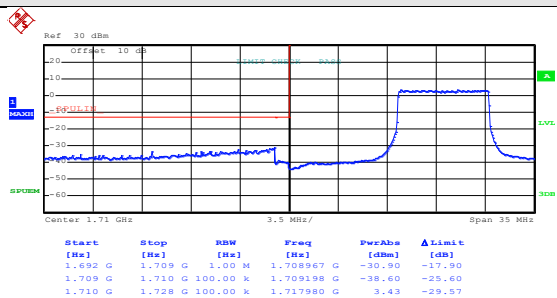


Date: 3.MAY.2016 21:41:36

Highest channel

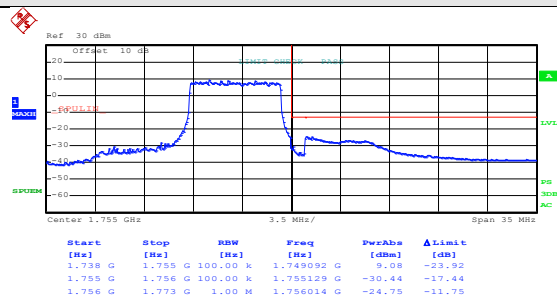
Test Mode:

LTE band 4(QPSKRB Size 36 &RB Offset 37)



Date: 12.JUN.2016 18:53:53

Lowest channel

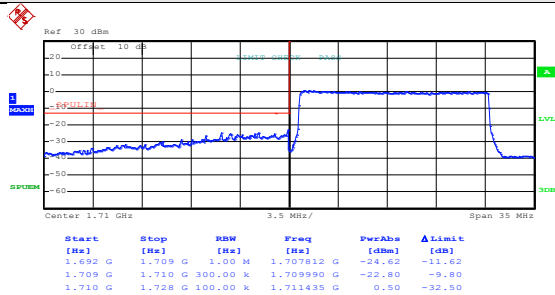


Date: 3.MAY.2016 21:41:48

Highest channel

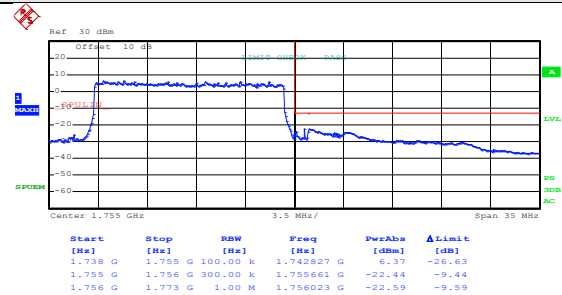
Test Mode:

LTE band 4(QPSKRB Size 75 &RB Offset 0)



Date: 12.JUN.2016 18:54:22

Lowest channel

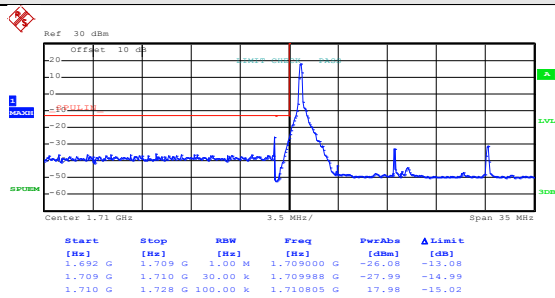


Date: 3.MAY.2016 21:42:06

Highest channel

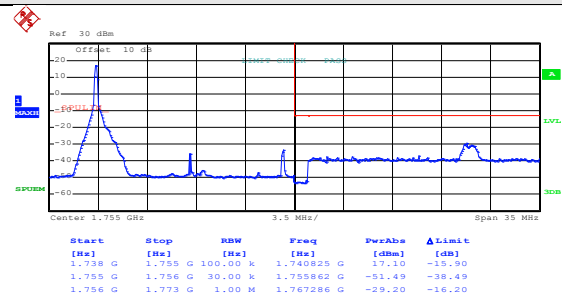
Test Mode:

LTE band 4(16QAMRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:52:34

Lowest channel

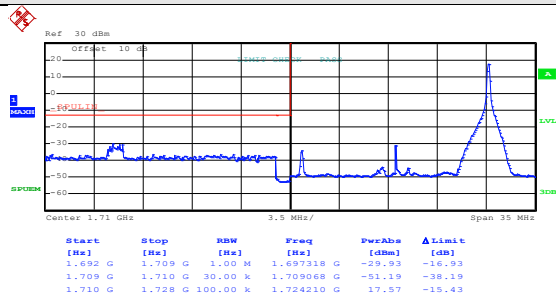


Date: 12.JUN.2016 18:55:18

Highest channel

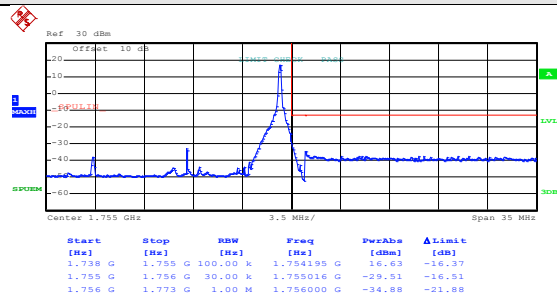
Test Mode:

LTE band 4(16QAMRB Size 1 &RB Offset 74)



Date: 12.JUN.2016 18:53:00

Lowest channel

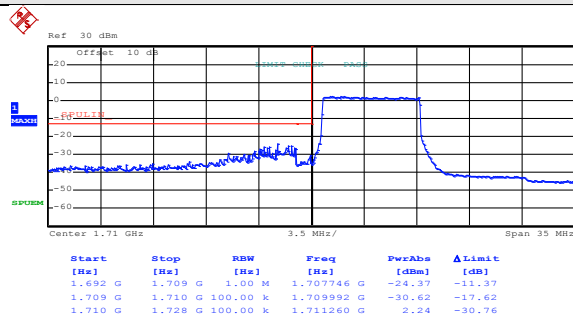


Date: 12.JUN.2016 18:55:39

Highest channel

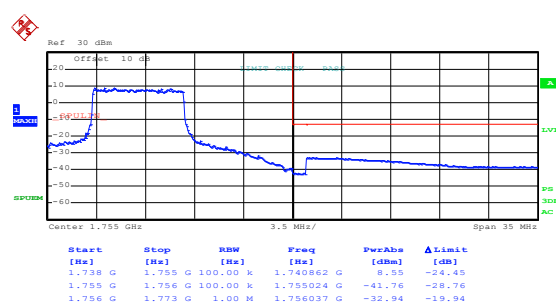
Test Mode:

LTE band 4(16QAMRB Size 36 &RB Offset 0)



Date: 12.JUN.2016 18:53:31

Lowest channel

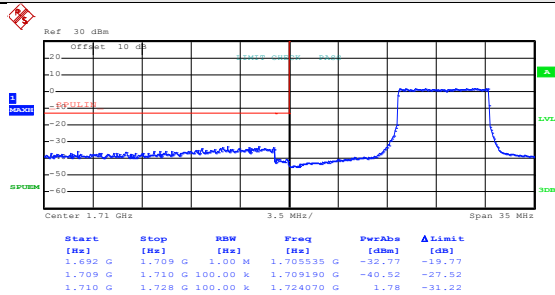


Date: 3.MAY.2016 21:43:06

Highest channel

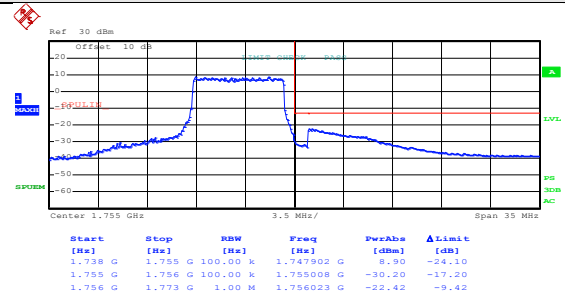
Test Mode:

LTE band 4(16QAMRB Size 36 &RB Offset 37)



Date: 12.JUN.2016 18:54:01

Lowest channel

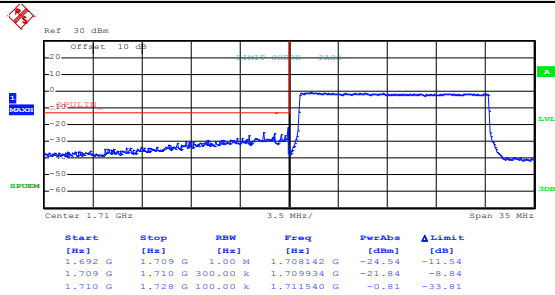


Date: 3.MAY.2016 21:43:19

Highest channel

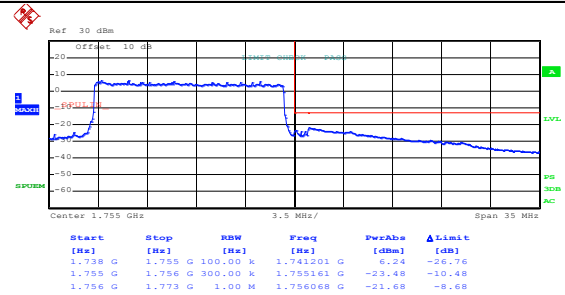
Test Mode:

LTE band 4(16QAMRB Size 75 &RB Offset 0)



Date: 12.JUN.2016 18:54:28

Lowest channel



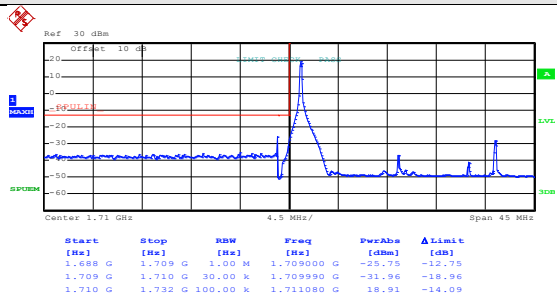
Date: 3.MAY.2016 21:43:45

Highest channel

20MHz:

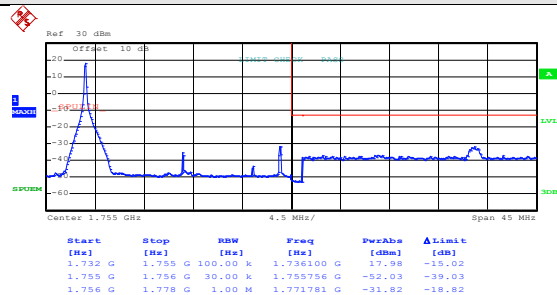
Test Mode:

LTE band 4(QPSKRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:58:20

Lowest channel

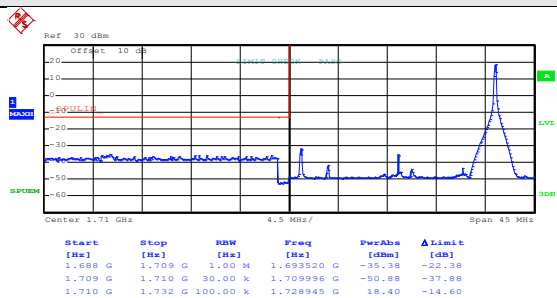


Date: 12.JUN.2016 19:01:00

Highest channel

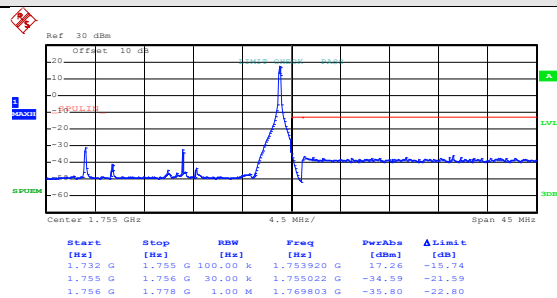
Test Mode:

LTE band 4(QPSKRB Size 1 &RB Offset 99)



Date: 12.JUN.2016 18:58:49

Lowest channel

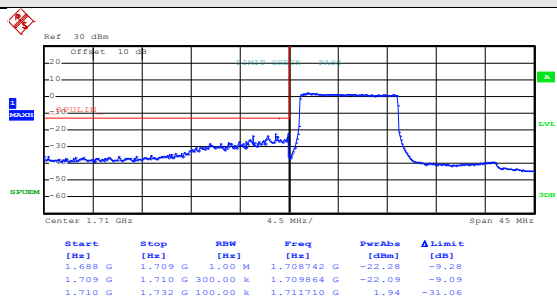


Date: 12.JUN.2016 19:01:25

Highest channel

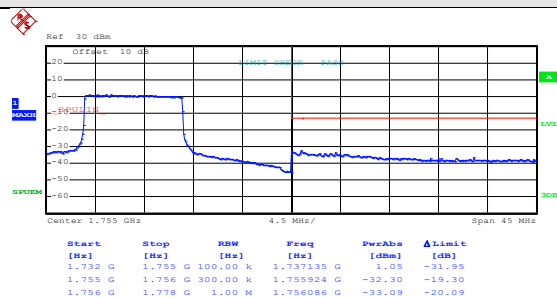
Test Mode:

LTE band 4(QPSKRB Size 50 &RB Offset 0)



Date: 12.JUN.2016 18:59:26

Lowest channel

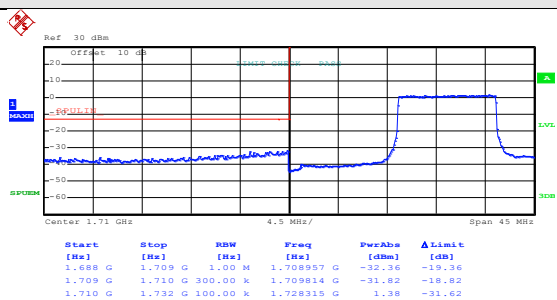


Date: 12.JUN.2016 19:02:03

Highest channel

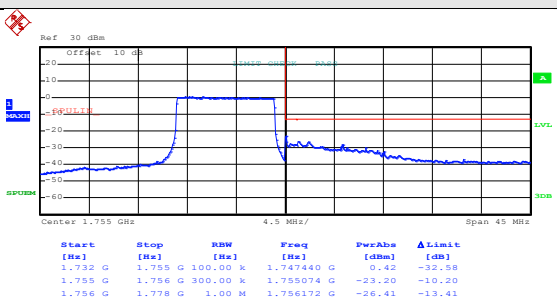
Test Mode:

LTE band 4(QPSKRB Size 50 &RB Offset 49)



Date: 12.JUN.2016 18:59:48

Lowest channel

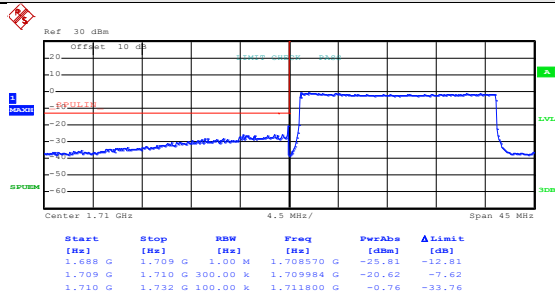


Date: 12.JUN.2016 19:02:29

Highest channel

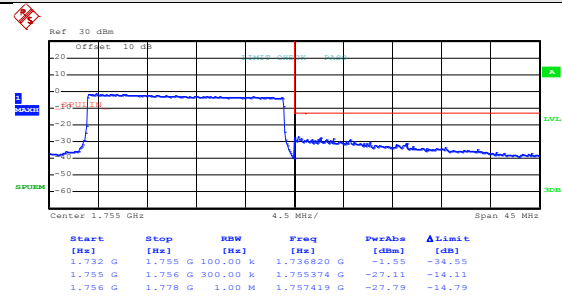
Test Mode:

LTE band 4(QPSKRB Size 100 &RB Offset 0)



Date: 12.JUN.2016 19:00:12

Lowest channel

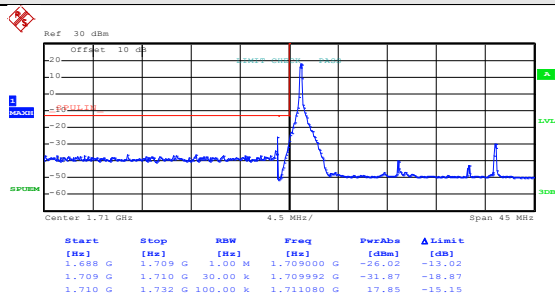


Date: 12.JUN.2016 19:02:57

Highest channel

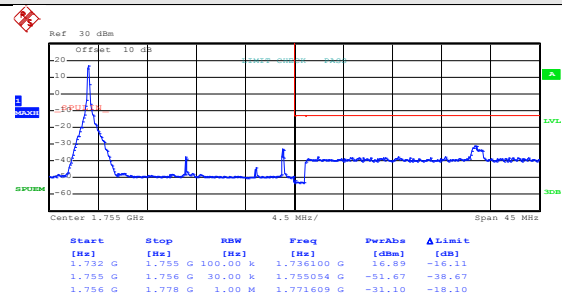
Test Mode:

LTE band 4(16QAMRB Size 1 &RB Offset 0)



Date: 12.JUN.2016 18:58:28

Lowest channel

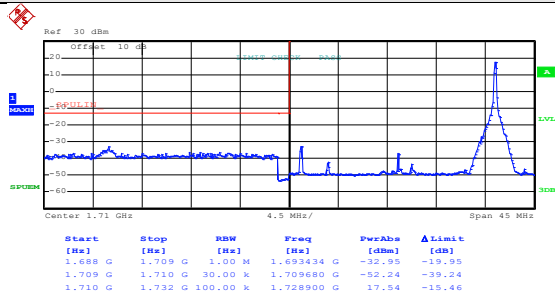


Date: 12.JUN.2016 19:01:09

Highest channel

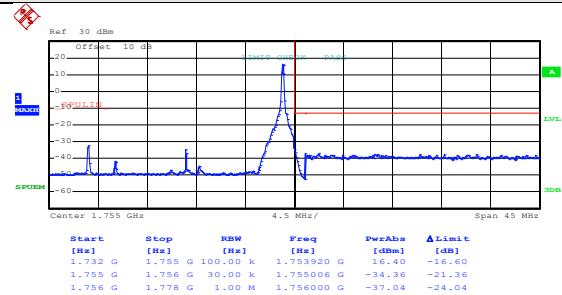
Test Mode:

LTE band 4(16QAMRB Size 1 &RB Offset 99)



Date: 12.JUN.2016 18:58:57

Lowest channel

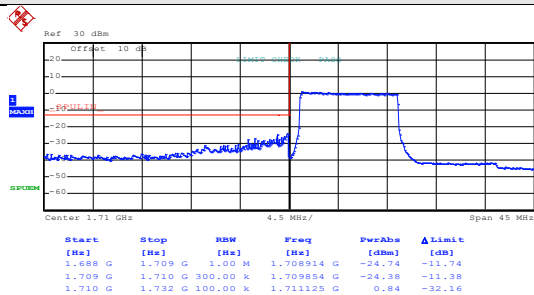


Date: 12.JUN.2016 19:01:33

Highest channel

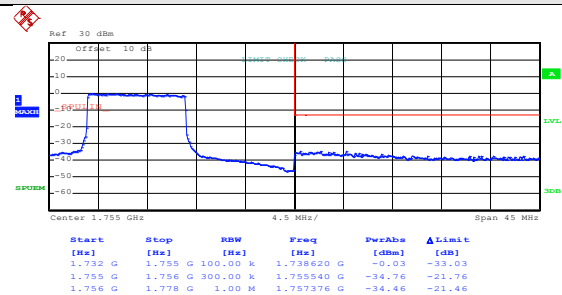
Test Mode:

LTE band 4(16QAMRB Size 50 &RB Offset 0)



Date: 12.JUN.2016 18:59:35

Lowest channel

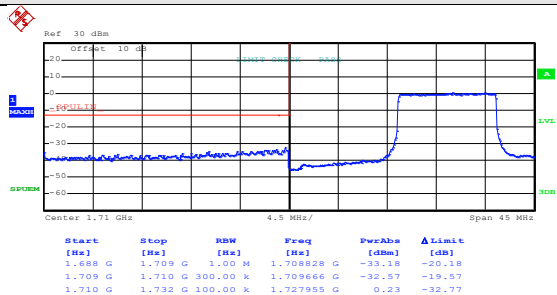


Date: 12.JUN.2016 19:02:14

Highest channel

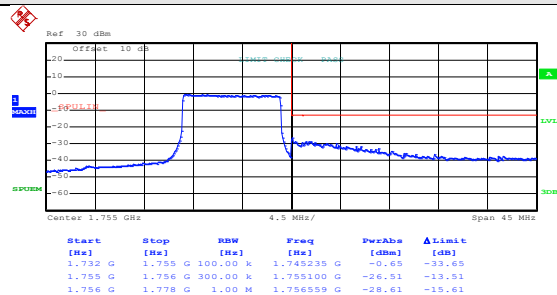
Test Mode:

LTE band 4(16QAMRB Size 50 &RB Offset 49)



Date: 12.JUN.2016 18:59:57

Lowest channel

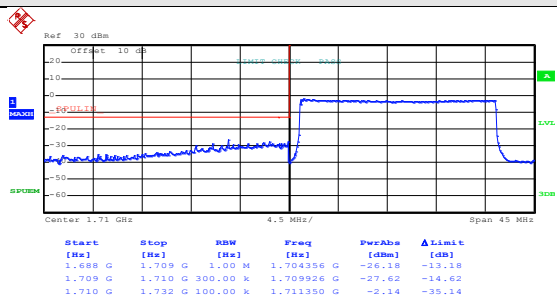


Date: 12.JUN.2016 19:02:43

Highest channel

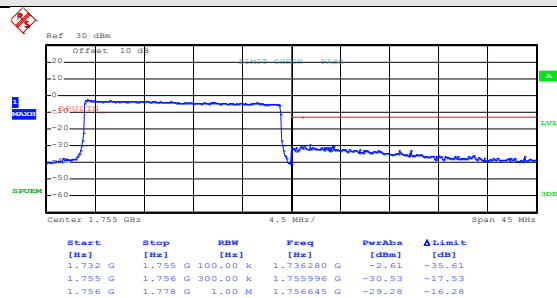
Test Mode:

LTE band 4(16QAMRB Size 100 &RB Offset 0)



Date: 12.JUN.2016 19:00:22

Lowest channel



Date: 12.JUN.2016 19:03:03

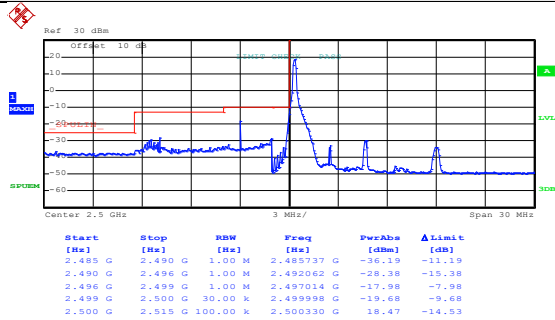
Highest channel

LTE band 7 part:

5MHz:

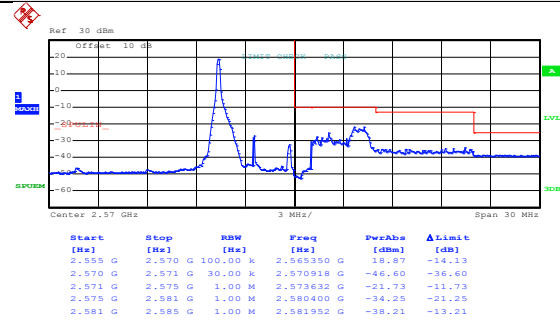
Test Mode:

LTE band 7(QPSK RB Size 1 &RB Offset 0)



Date: 12.JUN.2016 16:46:25

Lowest channel

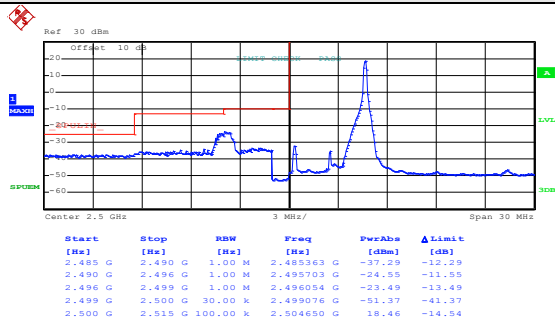


Date: 12.JUN.2016 16:48:05

Highest channel

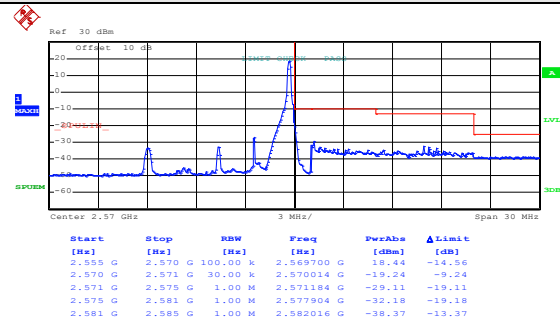
Test Mode:

LTE band 7(QPSK RB Size 1 &RB Offset 24)



Date: 12.JUN.2016 16:46:48

Lowest channel

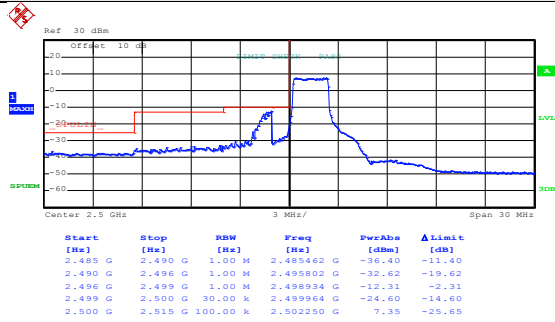


Date: 12.JUN.2016 16:48:18

Highest channel

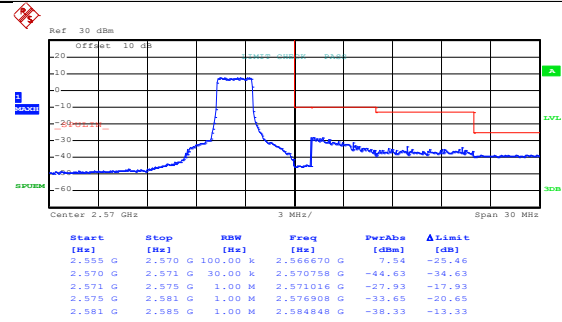
Test Mode:

LTE band 7(QPSK RB Size 12 &RB Offset 0)



Date: 12.JUN.2016 16:47:06

Lowest channel

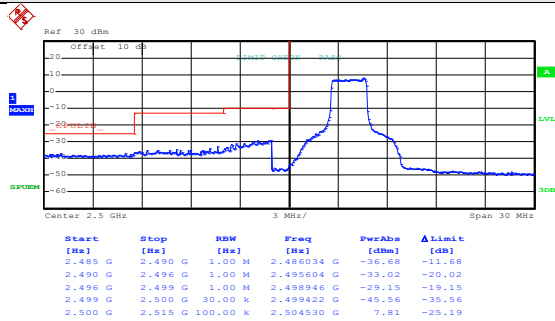


Date: 12.JUN.2016 16:48:33

Highest channel

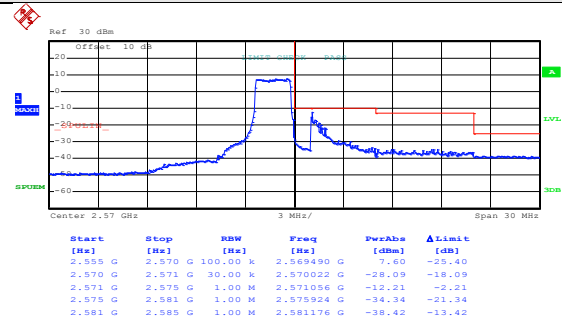
Test Mode:

LTE band 7(QPSK RB Size 12 &RB Offset 11)



Date: 12.JUN.2016 16:47:22

Lowest channel

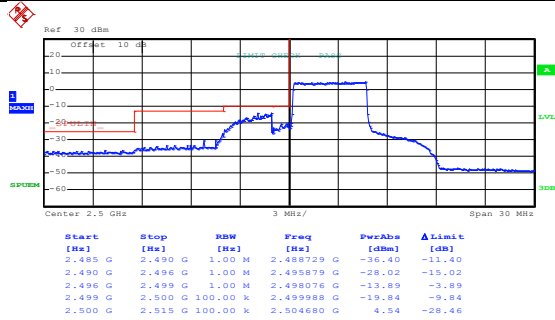


Date: 12.JUN.2016 16:48:49

Highest channel

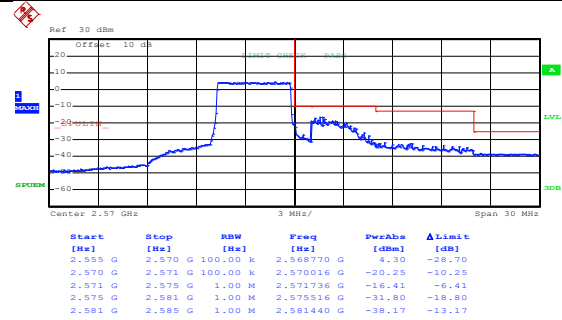
Test Mode:

LTE band 7(QPSK RB Size 25 &RB Offset 0)



Date: 12.JUN.2016 16:47:40

Lowest channel

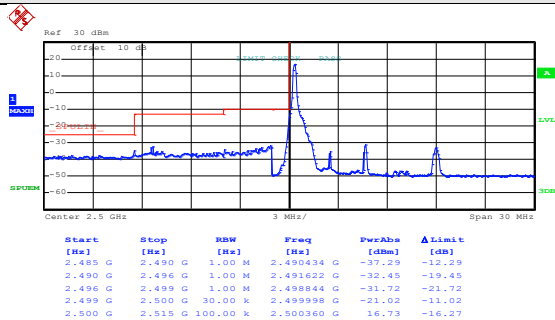


Date: 12.JUN.2016 16:49:08

Highest channel

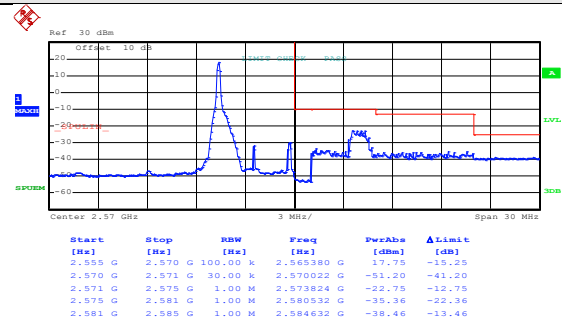
Test Mode:

LTE band 7(16QAM RB Size 1 &RB Offset 0)



Date: 12.JUN.2016 16:46:31

Lowest channel

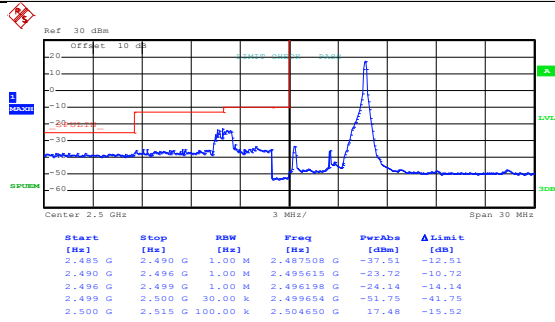


Date: 12.JUN.2016 16:48:11

Highest channel

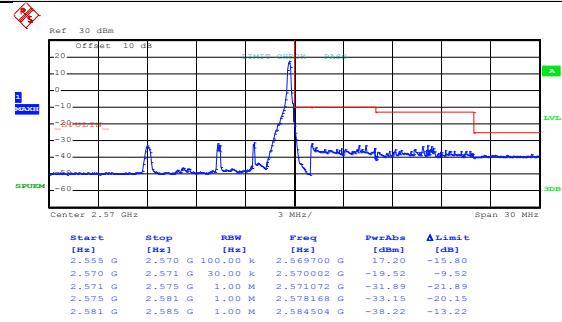
Test Mode:

LTE band 7(16QAM RB Size 1 &RB Offset 24)



Date: 12.JUN.2016 16:46:54

Lowest channel

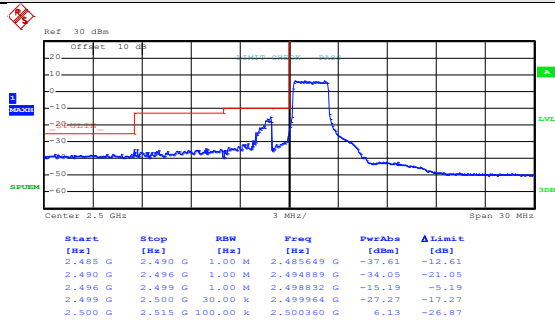


Date: 12.JUN.2016 16:48:25

Highest channel

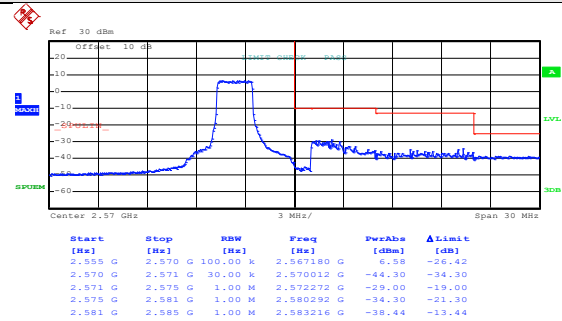
Test Mode:

LTE band 7(16QAM RB Size 12 &RB Offset 0)



Date: 12.JUN.2016 16:47:12

Lowest channel

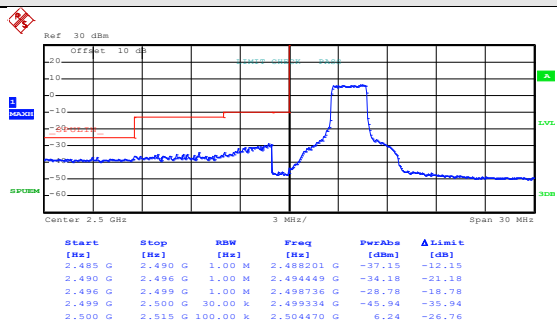


Date: 12.JUN.2016 16:48:39

Highest channel

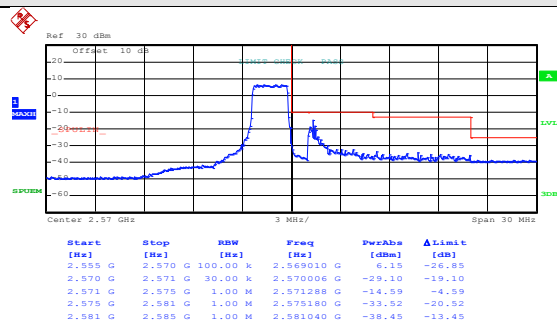
Test Mode:

LTE band 7(16QAM RB Size 12 &RB Offset 11)



Date: 12.JUN.2016 16:47:29

Lowest channel

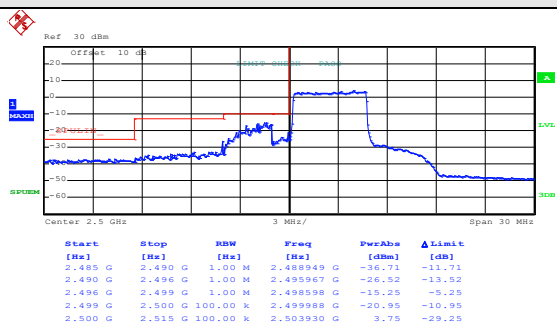


Date: 12.JUN.2016 16:48:56

Highest channel

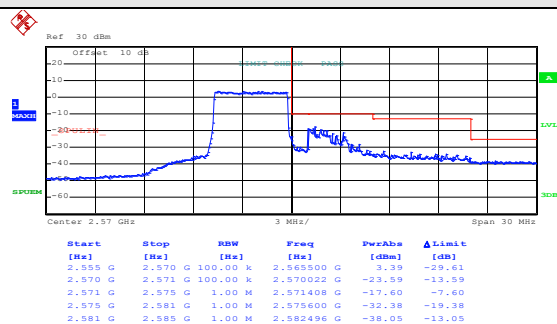
Test Mode:

LTE band 7(16QAM RB Size 25 &RB Offset 0)



Date: 12.JUN.2016 16:47:46

Lowest channel



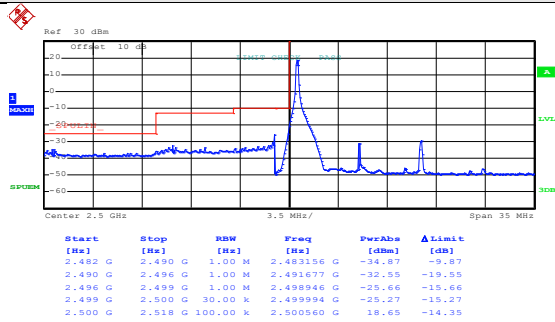
Date: 12.JUN.2016 16:49:14

Highest channel

10MHz:

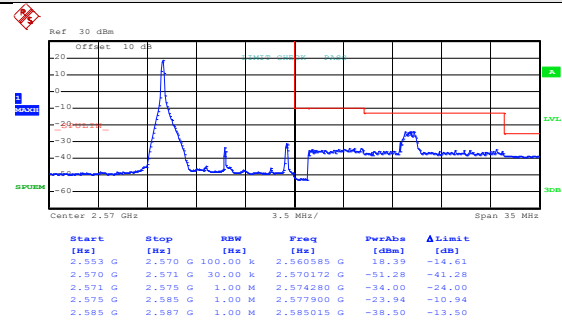
Test Mode:

LTE band 7(QPSK RB Size 1 &RB Offset 0)



Date: 12.JUN.2016 16:49:59

Lowest channel

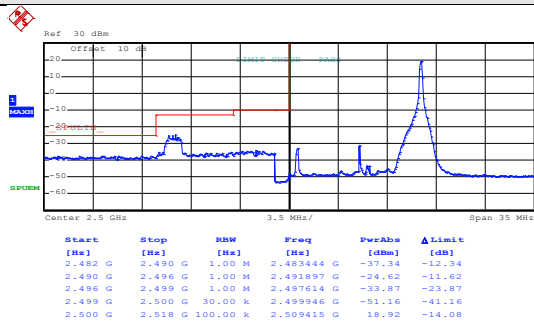


Date: 12.JUN.2016 16:51:41

Highest channel

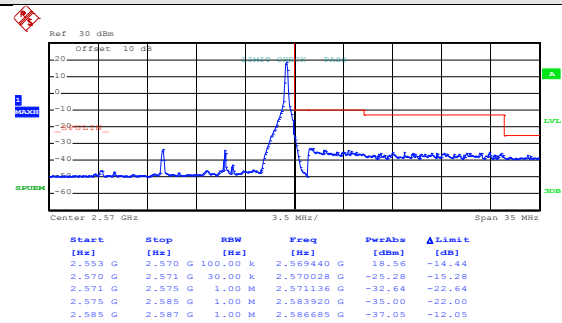
Test Mode:

LTE band 7(QPSK RB Size 1 &RB Offset 49)



Date: 12.JUN.2016 16:50:12

Lowest channel

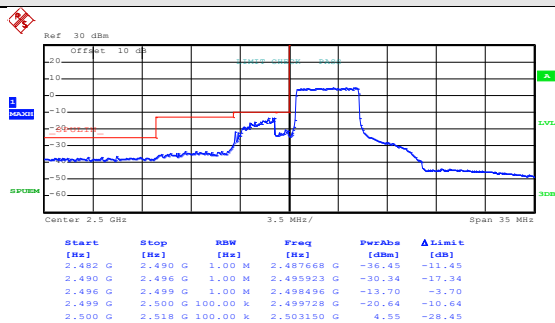


Date: 12.JUN.2016 16:52:02

Highest channel

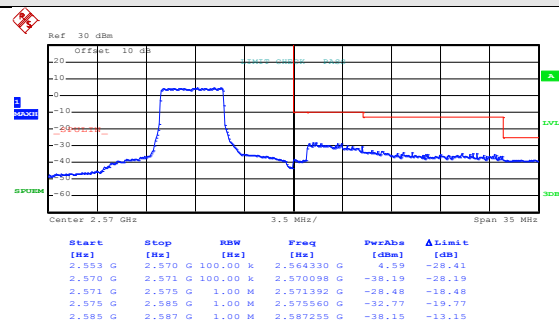
Test Mode:

LTE band 7(QPSK RB Size 25 &RB Offset 0)



Date: 12.JUN.2016 16:50:39

Lowest channel

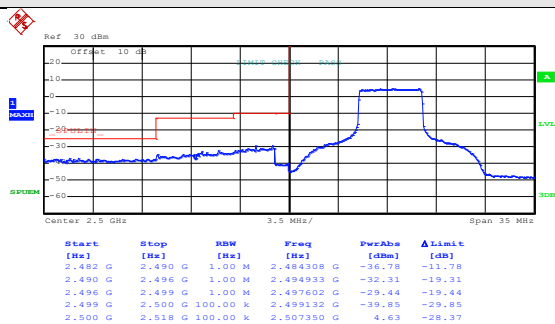


Date: 12.JUN.2016 16:52:26

Highest channel

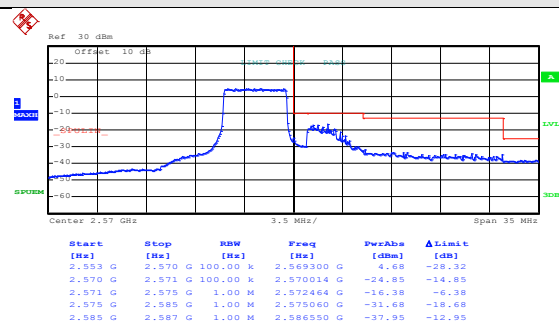
Test Mode:

LTE band 7(QPSK RB Size 25 &RB Offset 24)



Date: 12.JUN.2016 16:50:56

Lowest channel

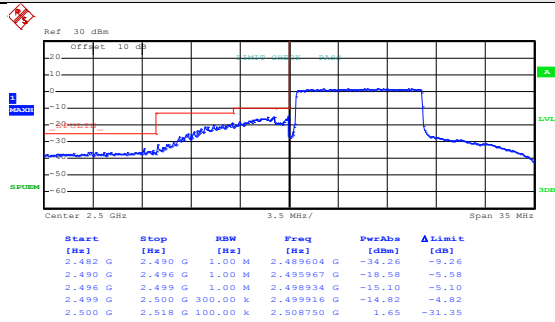


Date: 12.JUN.2016 16:52:45

Highest channel

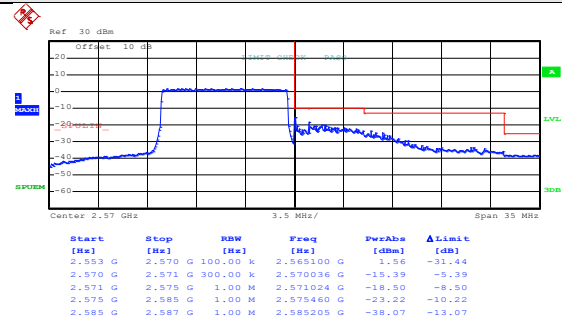
Test Mode:

LTE band 7(QPSK RB Size 50 &RB Offset 0)



Date: 12.JUN.2016 16:51:18

Lowest channel

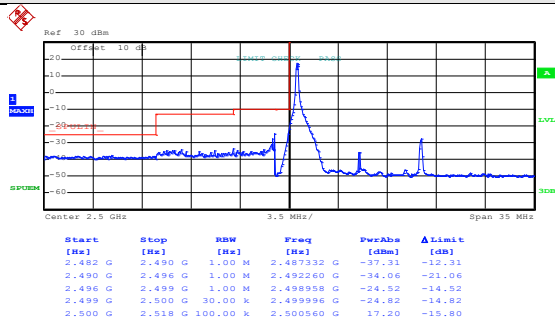


Date: 12.JUN.2016 16:53:06

Highest channel

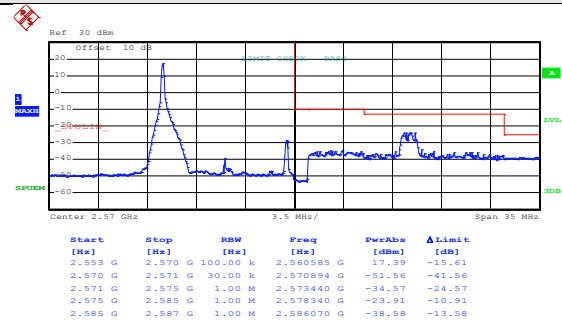
Test Mode:

LTE band 7(16QAM RB Size 1 &RB Offset 0)



Date: 12.JUN.2016 16:50:05

Lowest channel

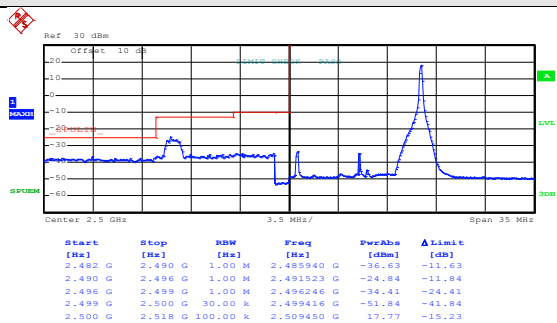


Date: 12.JUN.2016 16:51:48

Highest channel

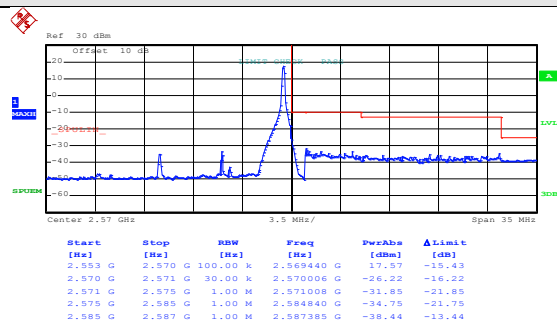
Test Mode:

LTE band 7(16QAM RB Size 1 &RB Offset 49)



Date: 12.JUN.2016 16:50:26

Lowest channel

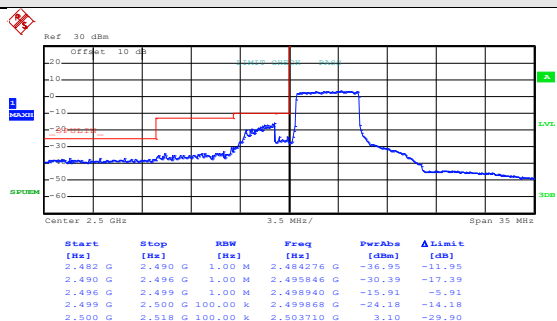


Date: 12.JUN.2016 16:52:12

Highest channel

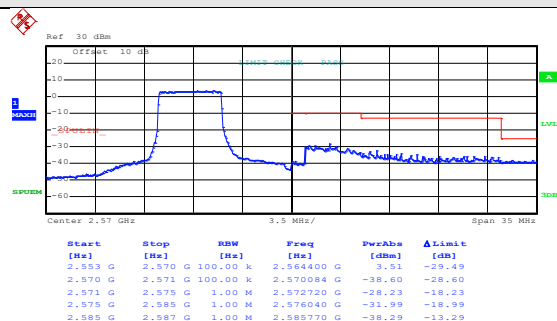
Test Mode:

LTE band 7(16QAM RB Size 25 &RB Offset 0)



Date: 12.JUN.2016 16:50:45

Lowest channel

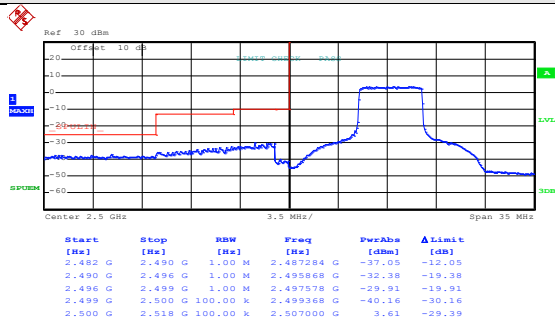


Date: 12.JUN.2016 16:52:33

Highest channel

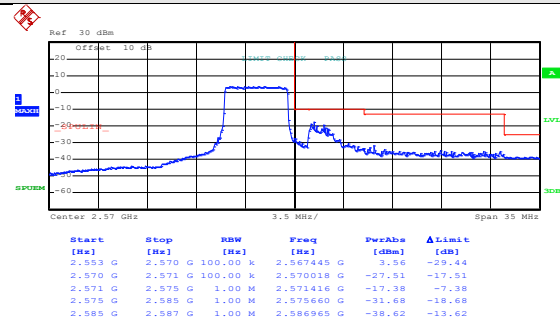
Test Mode:

LTE band 7(16QAM RB Size 25 &RB Offset 24)



Date: 12.JUN.2016 16:51:06

Lowest channel

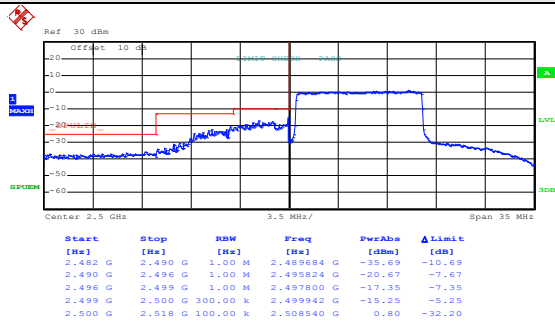


Date: 12.JUN.2016 16:52:55

Highest channel

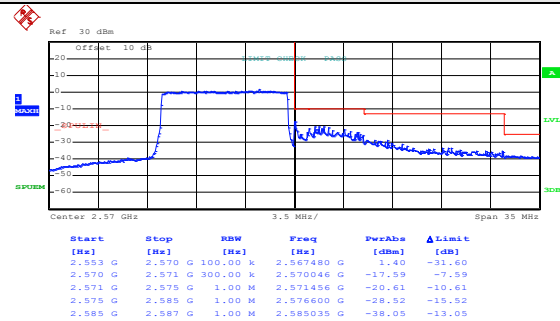
Test Mode:

LTE band 7(16QAM RB Size 50 &RB Offset 0)



Date: 12.JUN.2016 16:51:23

Lowest channel



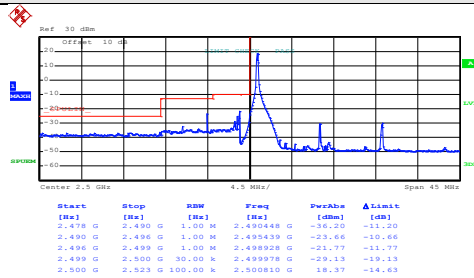
Date: 12.JUN.2016 16:53:14

Highest channel

15MHz:

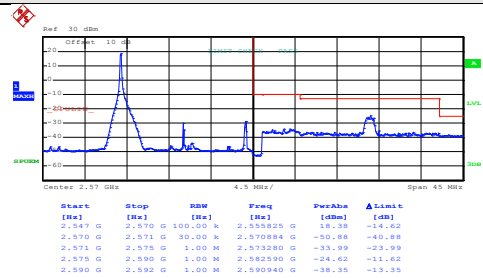
Test Mode:

LTE band 7(QPSK RB Size 1 &RB Offset 0)



Date: 12.JUN.2016 16:53:49

Lowest channel

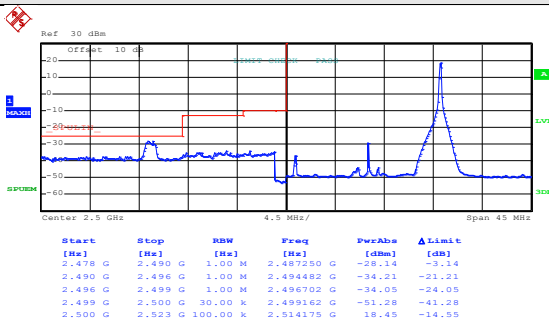


Date: 12.JUN.2016 16:55:28

Highest channel

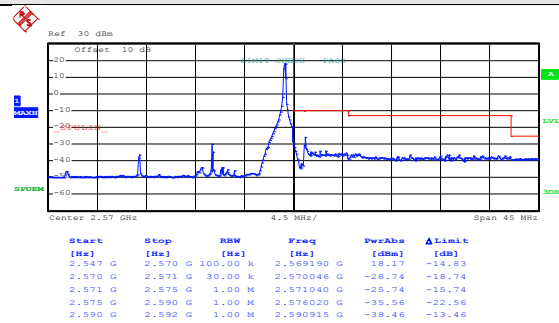
Test Mode:

LTE band 7(QPSK RB Size 1 &RB Offset 74)



Date: 12.JUN.2016 16:54:03

Lowest channel

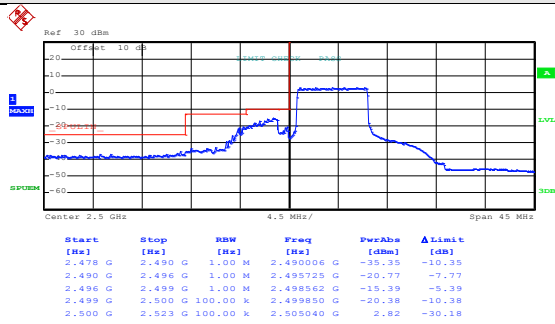


Date: 12.JUN.2016 16:55:48

Highest channel

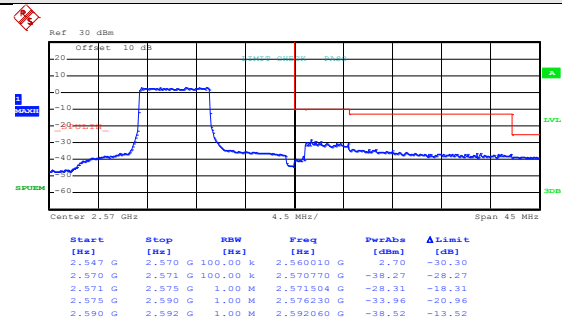
Test Mode:

LTE band 7(QPSK RB Size 36 &RB Offset 0)



Date: 12.JUN.2016 16:54:27

Lowest channel

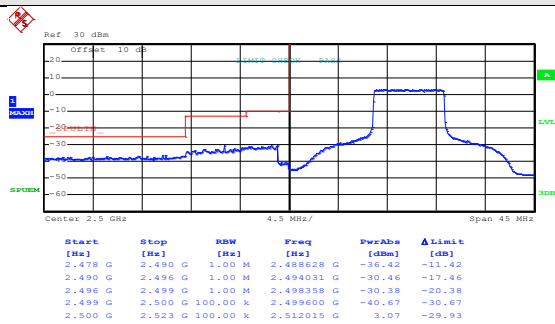


Date: 12.JUN.2016 16:56:27

Highest channel

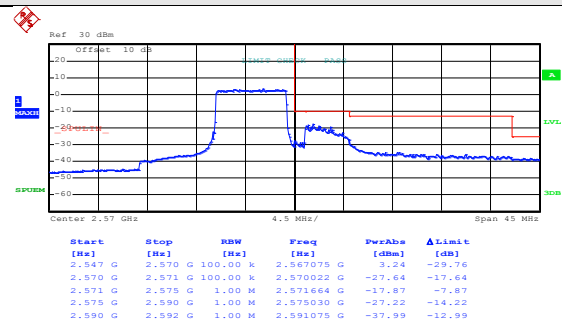
Test Mode:

LTE band 7(QPSK RB Size 36 &RB Offset 37)



Date: 12.JUN.2016 16:54:44

Lowest channel

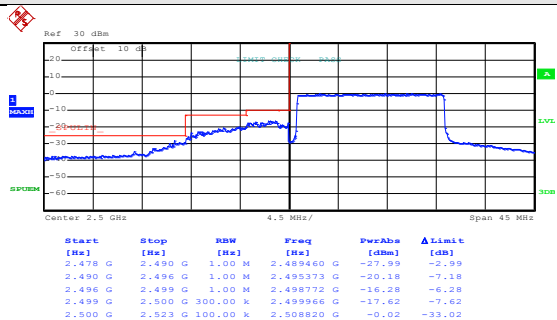


Date: 12.JUN.2016 16:56:47

Highest channel

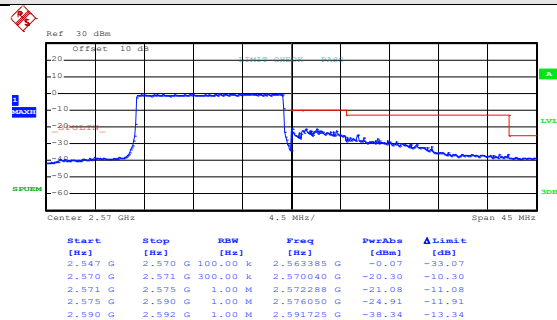
Test Mode:

LTE band 7(QPSK RB Size 75 &RB Offset 0)



Date: 12.JUN.2016 16:55:05

Lowest channel

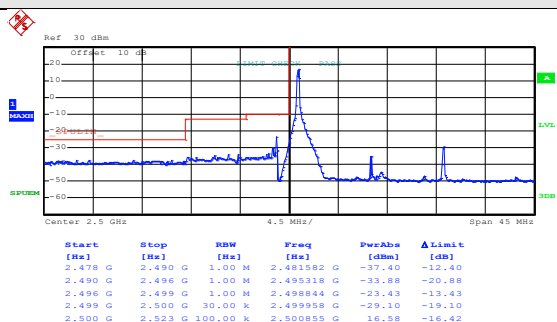


Date: 12.JUN.2016 16:57:08

Highest channel

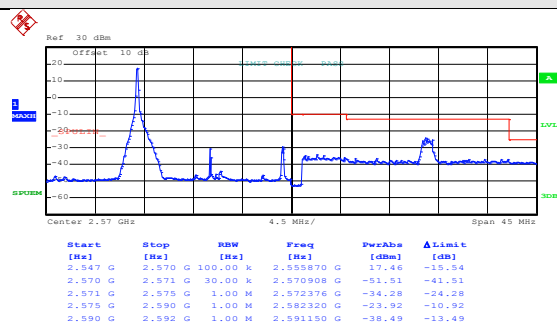
Test Mode:

LTE band 7(16QAM RB Size 1 &RB Offset 0)



Date: 12.JUN.2016 16:53:55

Lowest channel

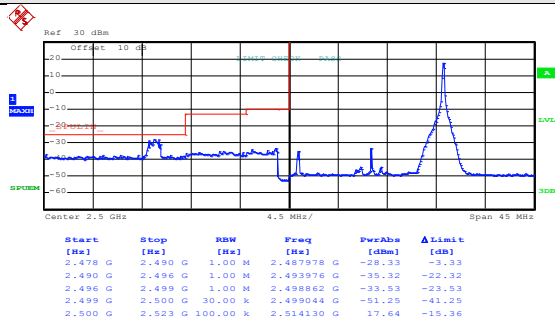


Date: 12.JUN.2016 16:55:37

Highest channel

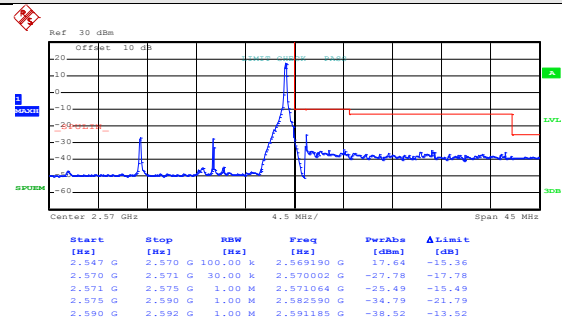
Test Mode:

LTE band 7(16QAM RB Size 1 &RB Offset 74)



Date: 12.JUN.2016 16:54:12

Lowest channel

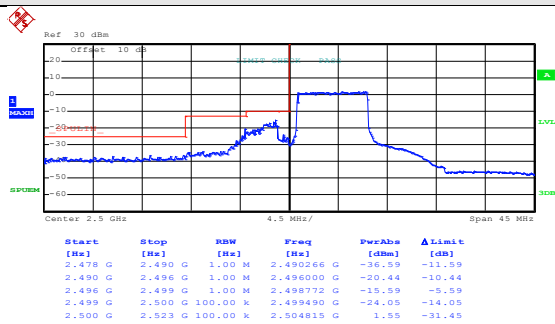


Date: 12.JUN.2016 16:55:57

Highest channel

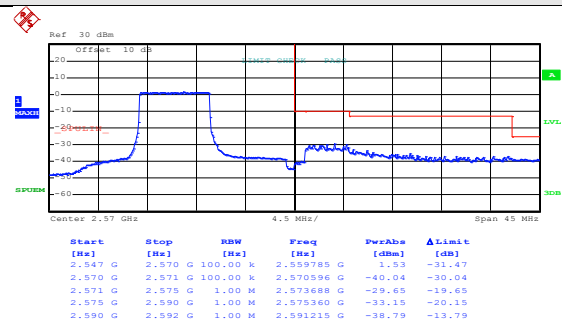
Test Mode:

LTE band 7(16QAM RB Size 36 &RB Offset 0)



Date: 12.JUN.2016 16:54:33

Lowest channel

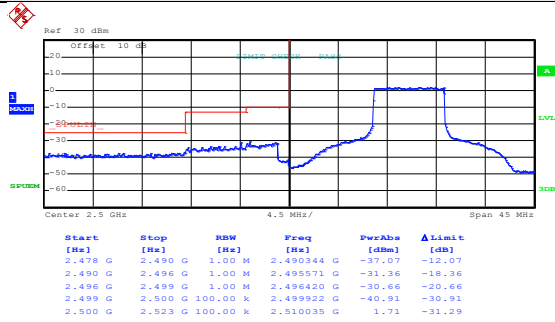


Date: 12.JUN.2016 16:56:34

Highest channel

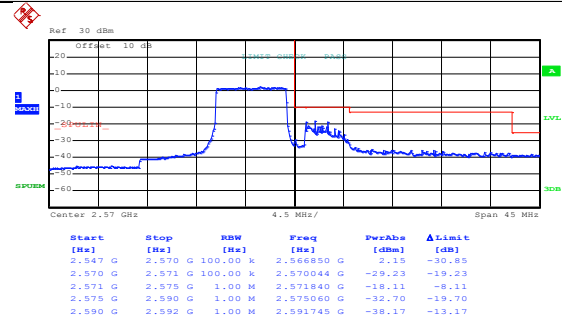
Test Mode:

LTE band 7(16QAM RB Size 36 &RB Offset 37)



Date: 12.JUN.2016 16:54:53

Lowest channel

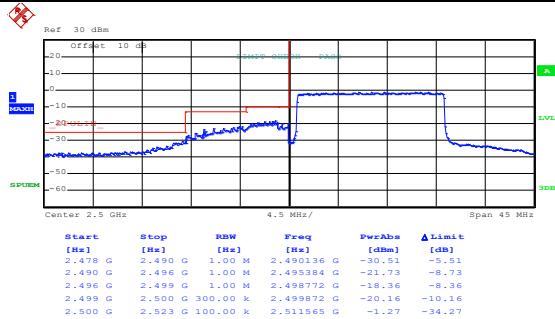


Date: 12.JUN.2016 16:56:55

Highest channel

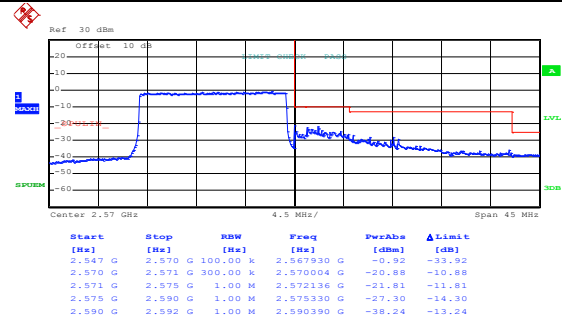
Test Mode:

LTE band 7(16QAM RB Size 75 &RB Offset 0)



Date: 12.JUN.2016 16:55:11

Lowest channel



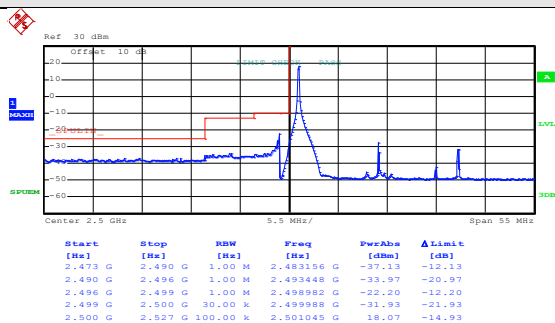
Date: 12.JUN.2016 16:57:14

Highest channel

20MHz:

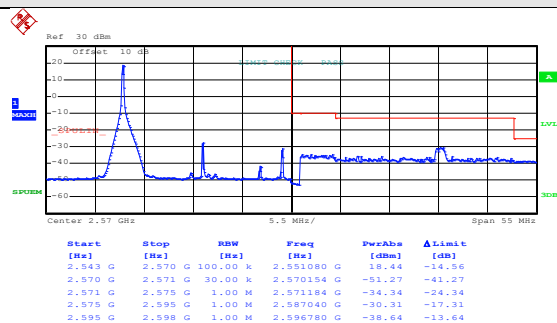
Test Mode:

LTE band 7(QPSK RB Size 1 &RB Offset 0)



Date: 12.JUN.2016 16:57:54

Lowest channel

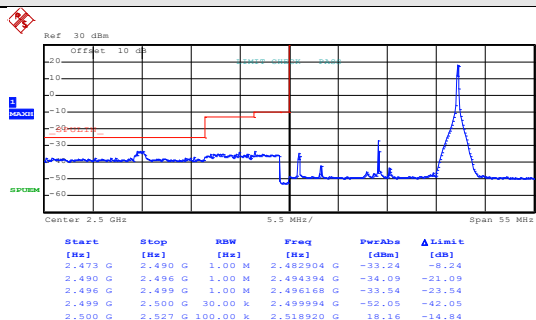


Date: 12.JUN.2016 16:59:38

Highest channel

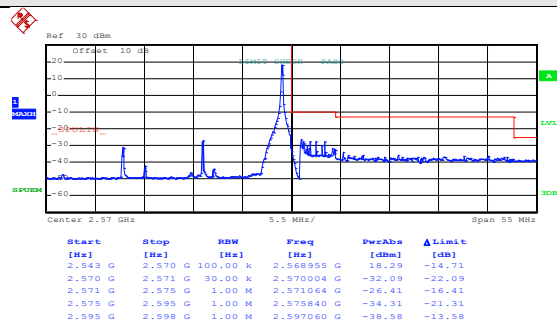
Test Mode:

LTE band 7(QPSK RB Size 1 &RB Offset 99)



Date: 12.JUN.2016 16:58:11

Lowest channel

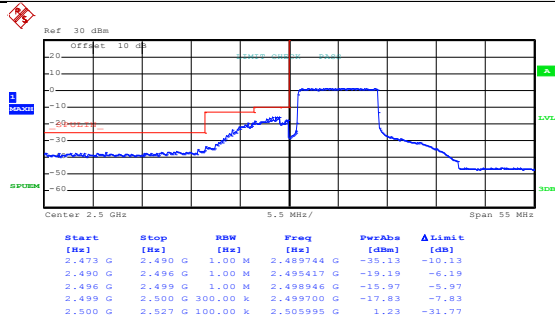


Date: 12.JUN.2016 17:00:00

Highest channel

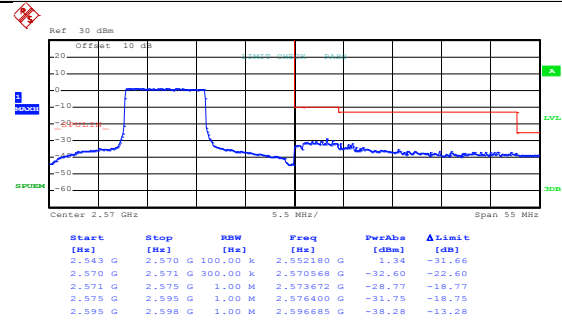
Test Mode:

LTE band 7(QPSK RB Size 50 &RB Offset 0)



Date: 12.JUN.2016 16:58:36

Lowest channel

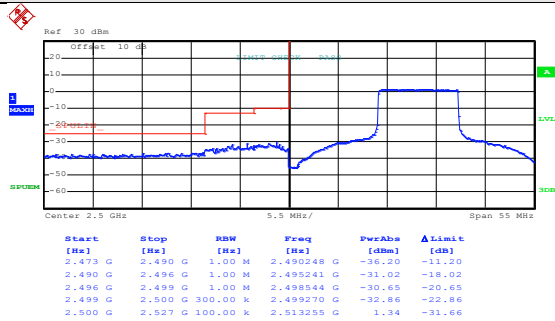


Date: 12.JUN.2016 17:00:22

Highest channel

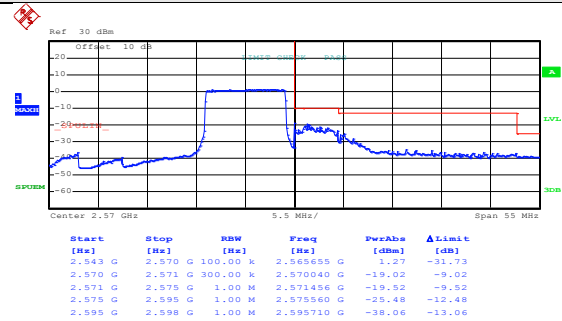
Test Mode:

LTE band 7(QPSK RB Size 50 &RB Offset 49)



Date: 12.JUN.2016 16:58:54

Lowest channel

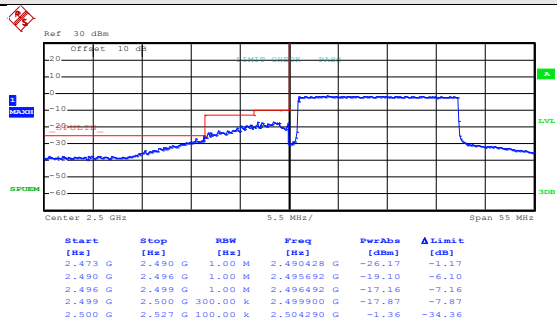


Date: 12.JUN.2016 17:00:42

Highest channel

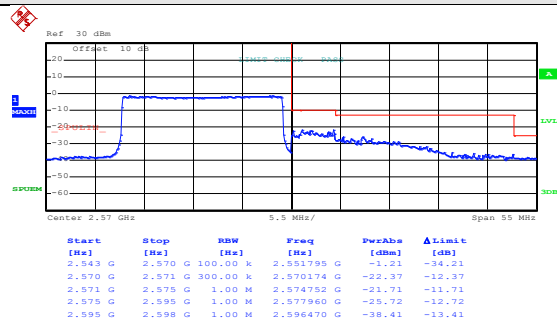
Test Mode:

LTE band 7(QPSK RB Size 100 &RB Offset 0)



Date: 12.JUN.2016 16:59:12

Lowest channel

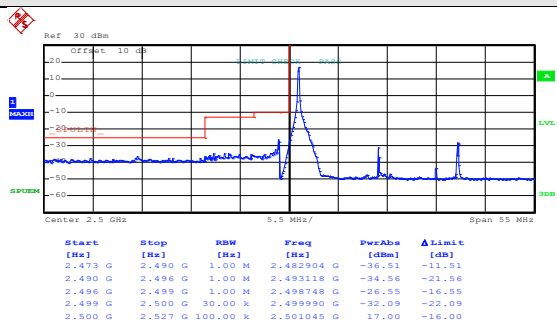


Date: 12.JUN.2016 17:01:00

Highest channel

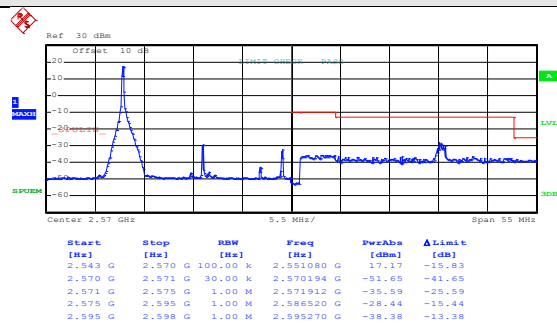
Test Mode:

LTE band 7(16QAM RB Size 1 &RB Offset 0)



Date: 12.JUN.2016 16:58:00

Lowest channel

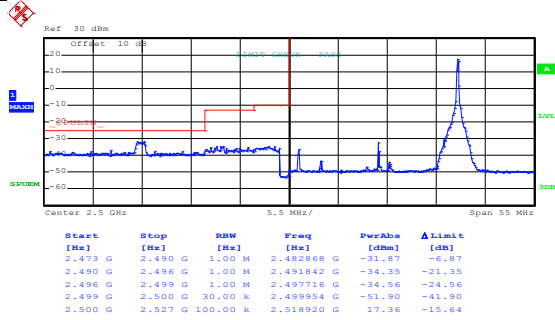


Date: 12.JUN.2016 16:59:46

Highest channel

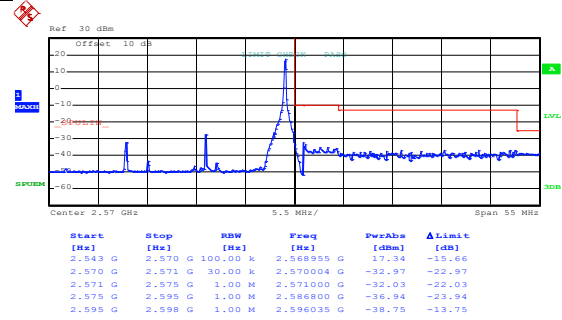
Test Mode:

LTE band 7(16QAM RB Size 1 &RB Offset 99)



Date: 12.JUN.2016 16:58:20

Lowest channel

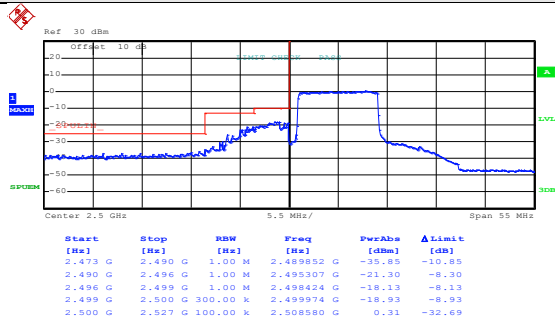


Date: 12.JUN.2016 17:00:08

Highest channel

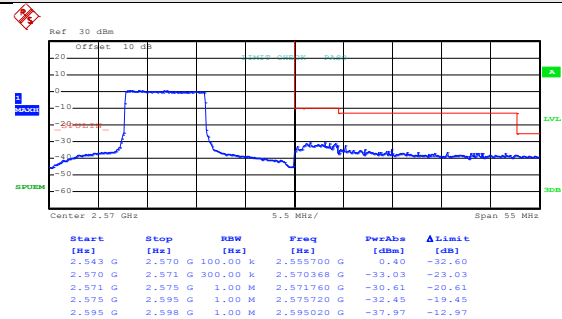
Test Mode:

LTE band 7(16QAM RB Size 50 &RB Offset 0)



Date: 12.JUN.2016 16:58:43

Lowest channel

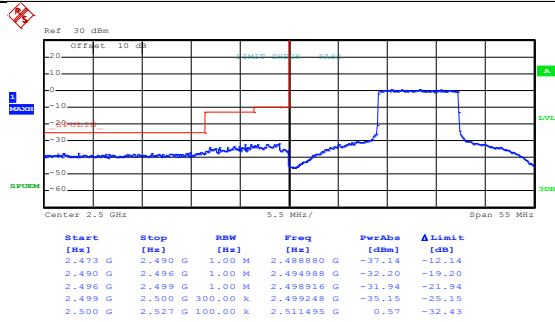


Date: 12.JUN.2016 17:00:30

Highest channel

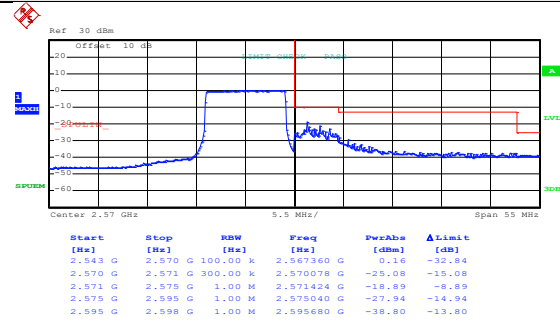
Test Mode:

LTE band 7(16QAM RB Size 50 &RB Offset 49)



Date: 12.JUN.2016 16:59:02

Lowest channel

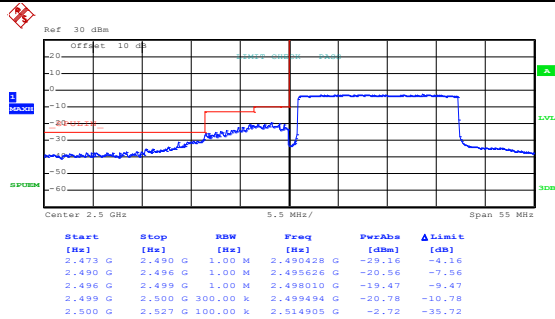


Date: 12.JUN.2016 17:00:50

Highest channel

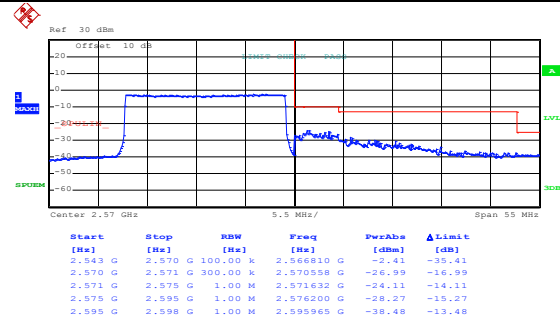
Test Mode:

LTE band 7(16QAM RB Size 100 &RB Offset 0)



Date: 12.JUN.2016 16:59:17

Lowest channel



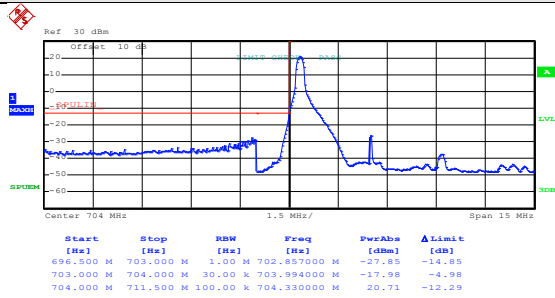
Date: 12.JUN.2016 17:01:05

Highest channel

LTE band 17 part:5MHz:

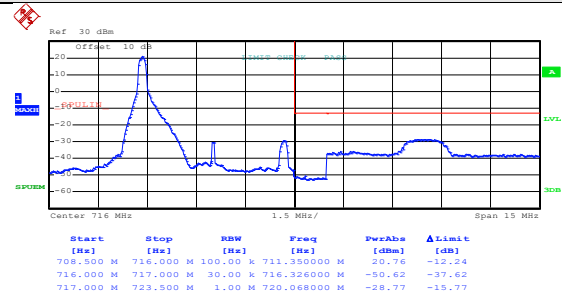
Test Mode:

LTE band 17(QPSK RB Size 1 &RB Offset 0)



Date: 12.JUN.2016 16:30:06

Lowest channel

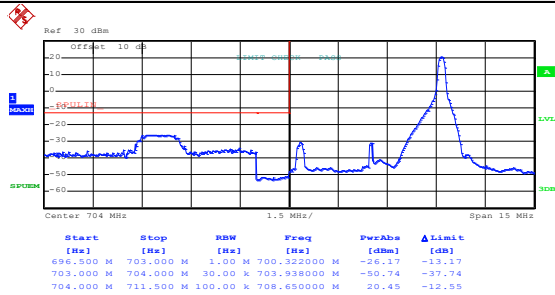


Date: 12.JUN.2016 16:32:28

Highest channel

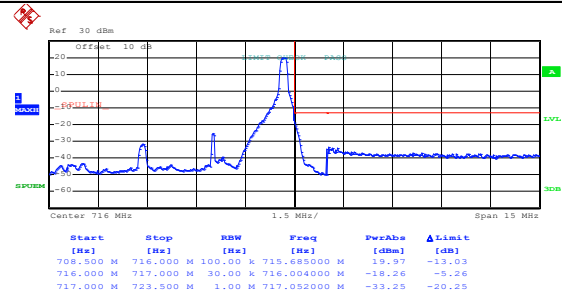
Test Mode:

LTE band 17(QPSK RB Size 1 &RB Offset 24)



Date: 12.JUN.2016 16:30:21

Lowest channel

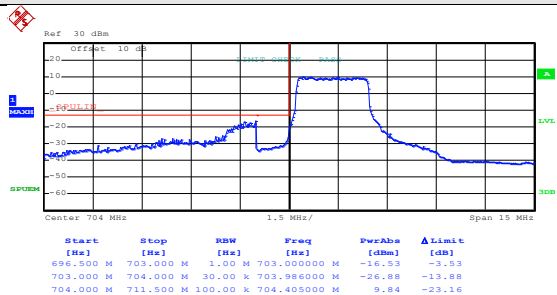


Date: 12.JUN.2016 16:32:47

Highest channel

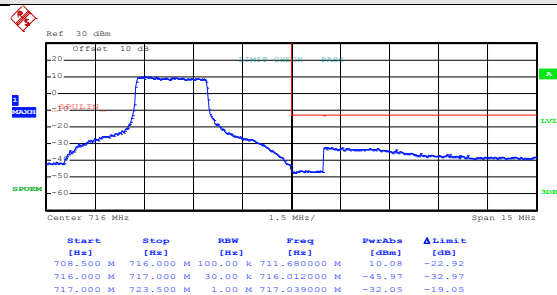
Test Mode:

LTE band 17(QPSK RB Size 12 &RB Offset 0)



Date: 12.JUN.2016 16:31:02

Lowest channel

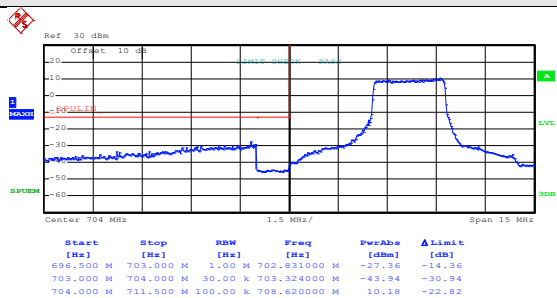


Date: 12.JUN.2016 16:33:06

Highest channel

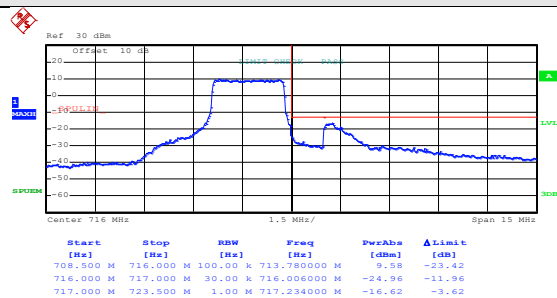
Test Mode:

LTE band 17(QPSK RB Size 12 &RB Offset 11)



Date: 12.JUN.2016 16:31:21

Lowest channel

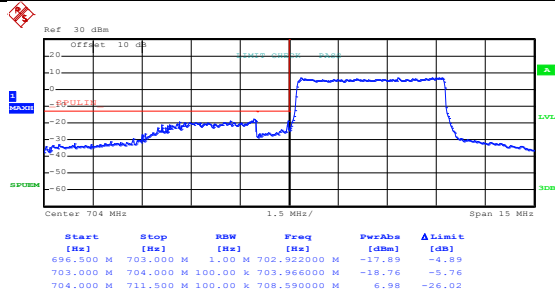


Date: 12.JUN.2016 16:33:23

Highest channel

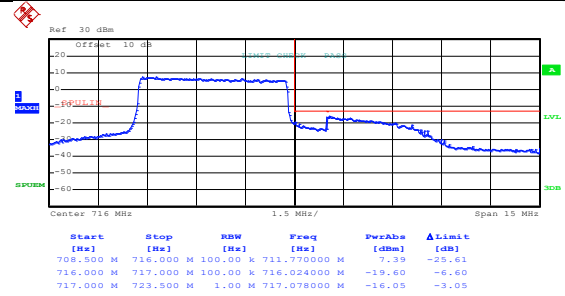
Test Mode:

LTE band 17(QPSK RB Size 25 &RB Offset 0)



Date: 12.JUN.2016 16:31:58

Lowest channel

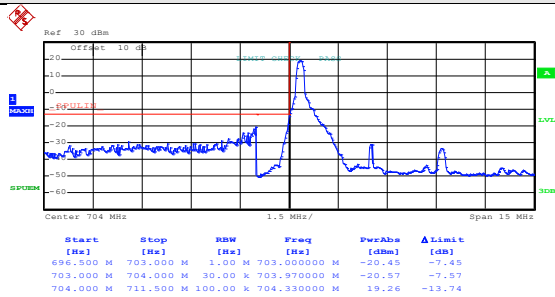


Date: 12.JUN.2016 16:34:13

Highest channel

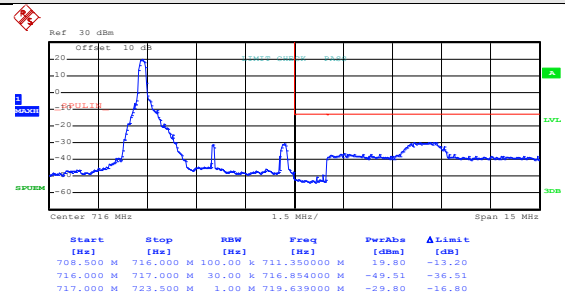
Test Mode:

LTE band 17(16QAM RB Size 1 &RB Offset 0)



Date: 12.JUN.2016 16:30:11

Lowest channel

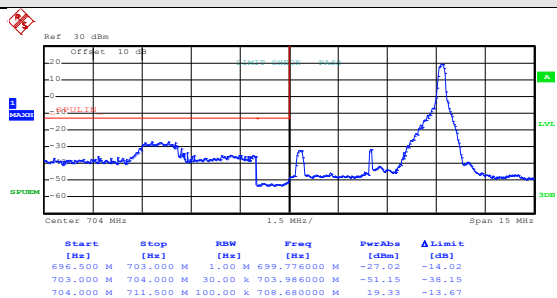


Date: 12.JUN.2016 16:32:35

Highest channel

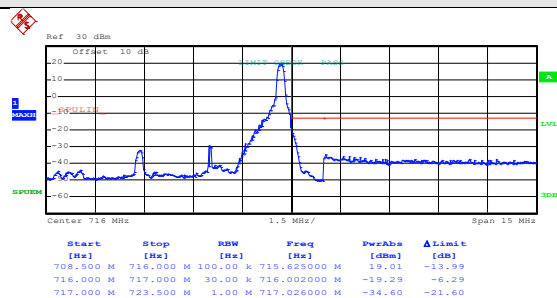
Test Mode:

LTE band 17(16QAM RB Size 1 &RB Offset 24)



Date: 12.JUN.2016 16:30:27

Lowest channel

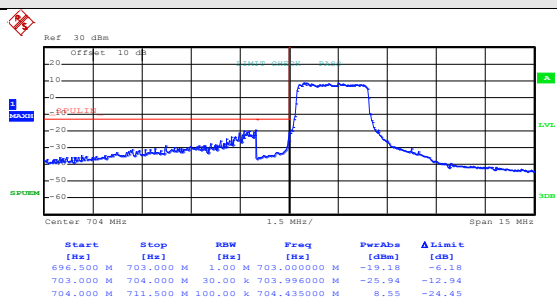


Date: 12.JUN.2016 16:32:57

Highest channel

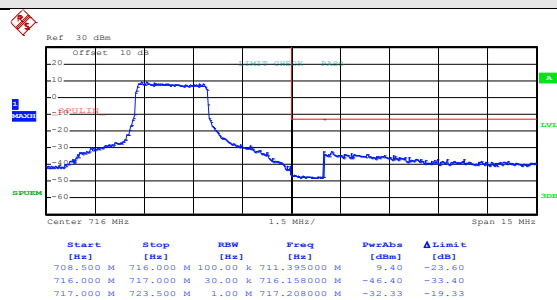
Test Mode:

LTE band 17(16QAM RB Size 12 &RB Offset 0)



Date: 12.JUN.2016 16:31:09

Lowest channel

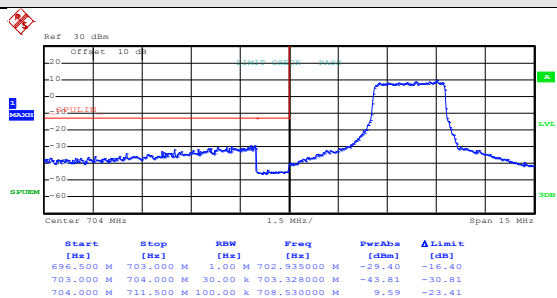


Date: 12.JUN.2016 16:33:12

Highest channel

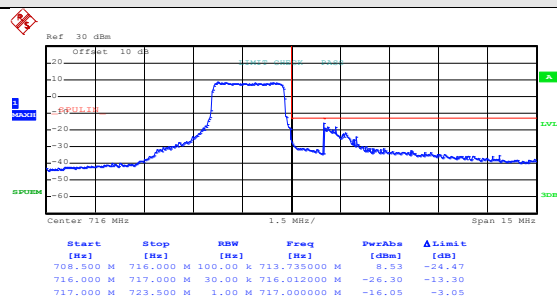
Test Mode:

LTE band 17(16QAM RB Size 12 &RB Offset 11)



Date: 12.JUN.2016 16:31:27

Lowest channel

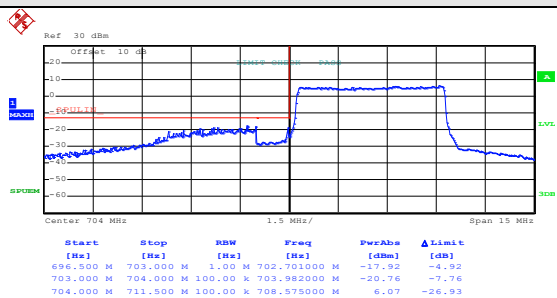


Date: 12.JUN.2016 16:33:30

Highest channel

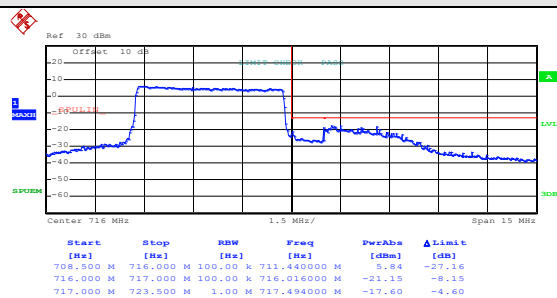
Test Mode:

LTE band 17(16QAM RB Size 25 &RB Offset 0)



Date: 12.JUN.2016 16:32:05

Lowest channel



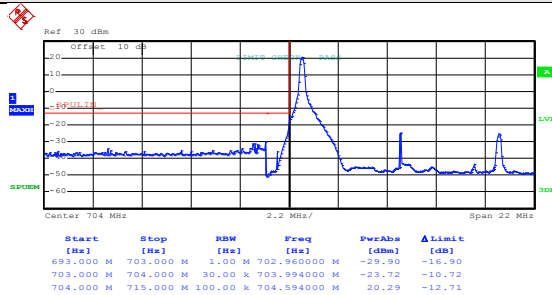
Date: 12.JUN.2016 16:34:17

Highest channel

10MHz:

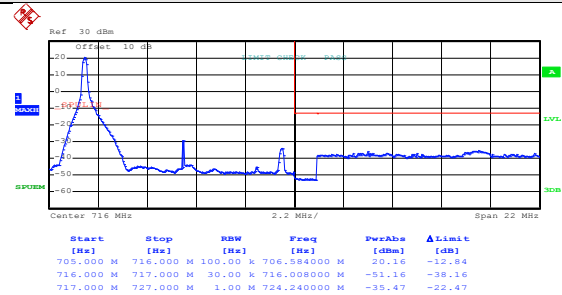
Test Mode:

LTE band 17(QPSK RB Size 1 &RB Offset 0)



Date: 12.JUN.2016 16:38:12

Lowest channel

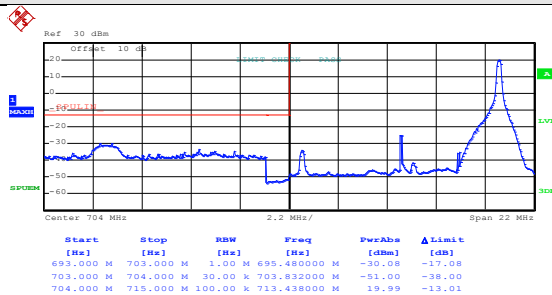


Date: 12.JUN.2016 16:40:16

Highest channel

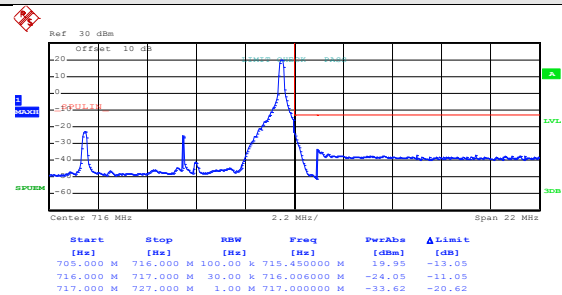
Test Mode:

LTE band 17(QPSK RB Size 1 &RB Offset 49)



Date: 12.JUN.2016 16:38:30

Lowest channel

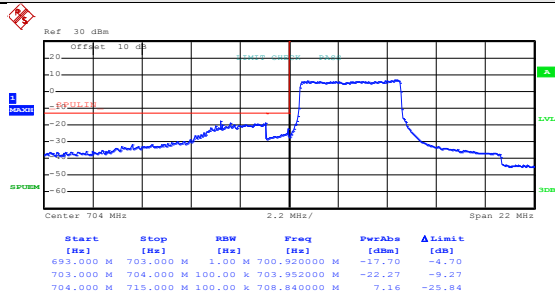


Date: 12.JUN.2016 16:40:33

Highest channel

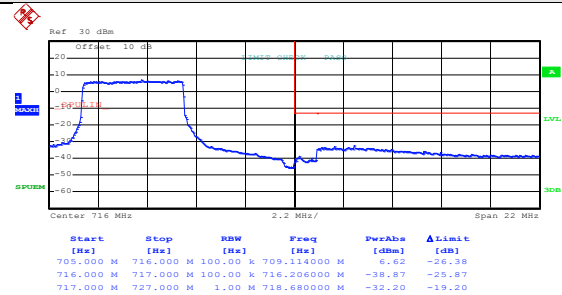
Test Mode:

LTE band 17(QPSK RB Size 25 &RB Offset 0)



Date: 12.JUN.2016 16:38:55

Lowest channel

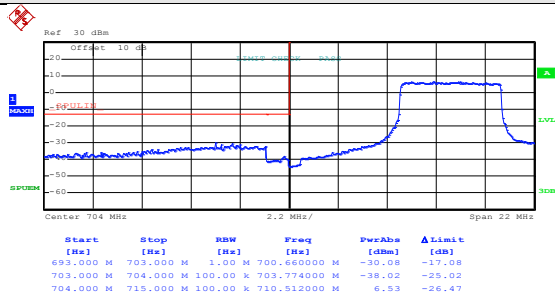


Date: 12.JUN.2016 16:40:57

Highest channel

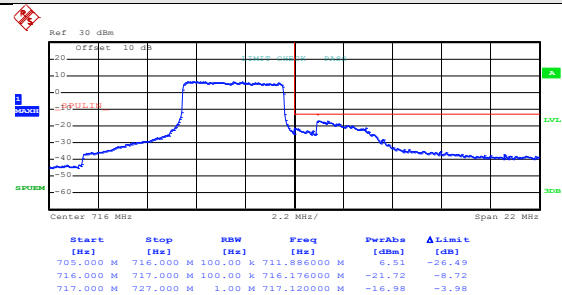
Test Mode:

LTE band 17(QPSK RB Size 25 &RB Offset 24)



Date: 12.JUN.2016 16:39:11

Lowest channel

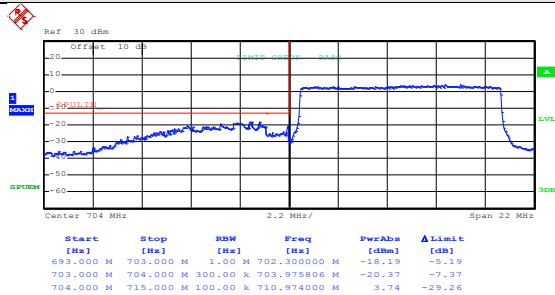


Date: 12.JUN.2016 16:41:12

Highest channel

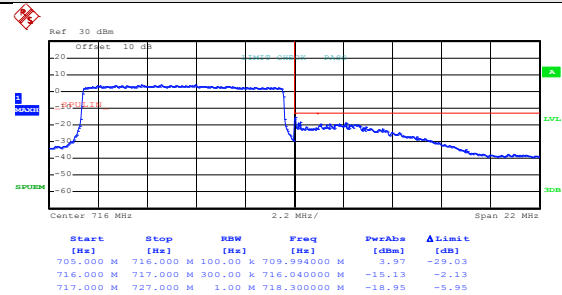
Test Mode:

LTE band 17(QPSK RB Size 50 &RB Offset 0)



Date: 12.JUN.2016 16:39:47

Lowest channel

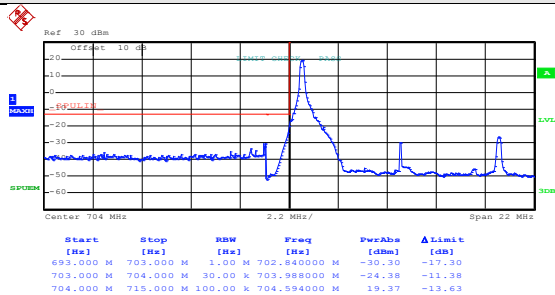


Date: 12.JUN.2016 16:41:32

Highest channel

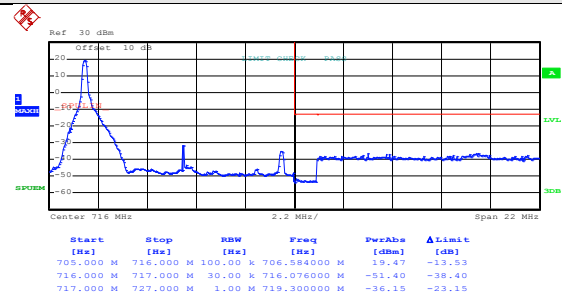
Test Mode:

LTE band 17(16QAM RB Size 1 &RB Offset 0)



Date: 12.JUN.2016 16:38:18

Lowest channel

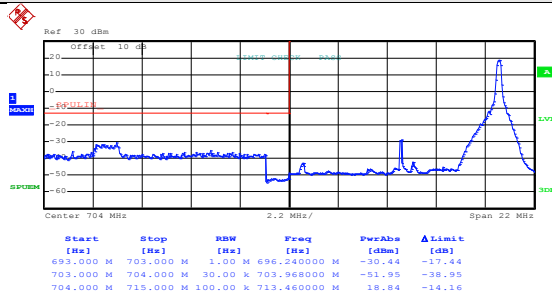


Date: 12.JUN.2016 16:40:23

Highest channel

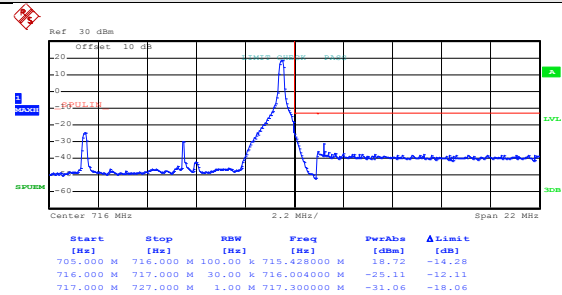
Test Mode:

LTE band 17(16QAM RB Size 1 &RB Offset 49)



Date: 12.JUN.2016 16:38:36

Lowest channel

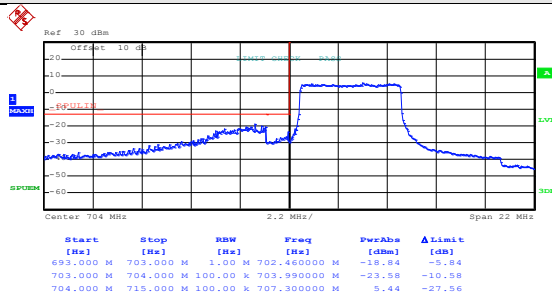


Date: 12.JUN.2016 16:40:45

Highest channel

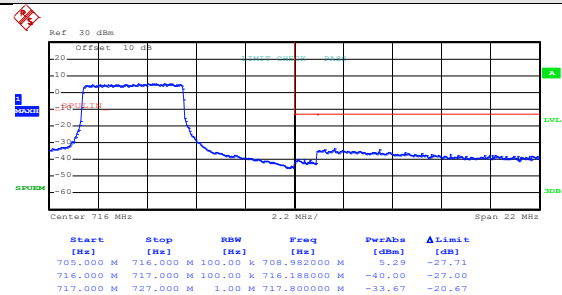
Test Mode:

LTE band 17(16QAM RB Size 25 &RB Offset 0)



Date: 12.JUN.2016 16:39:02

Lowest channel

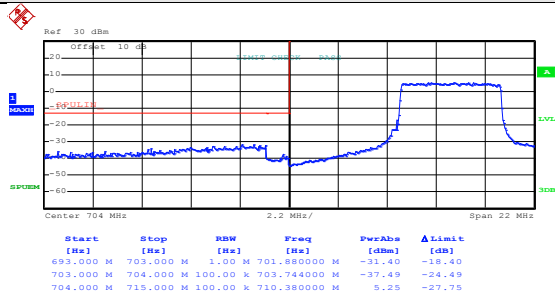


Date: 12.JUN.2016 16:41:03

Highest channel

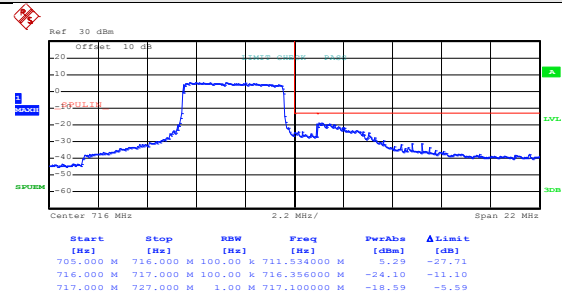
Test Mode:

LTE band 17(16QAM RB Size 25 &RB Offset 24)



Date: 12.JUN.2016 16:39:25

Lowest channel

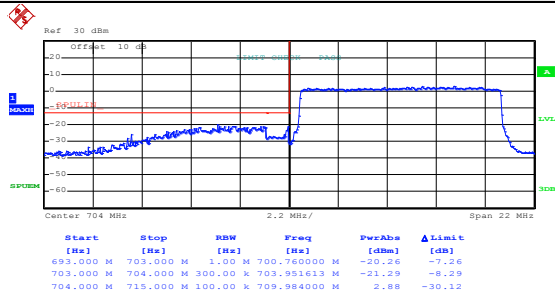


Date: 12.JUN.2016 16:41:20

Highest channel

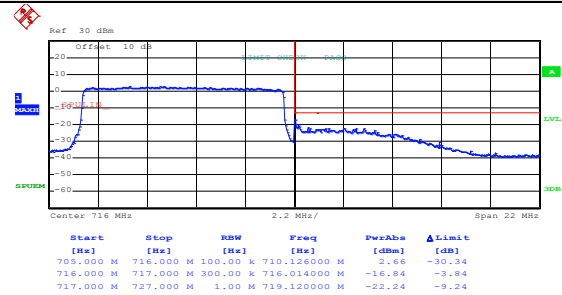
Test Mode:

LTE band 17(16QAMRB Size 50 &RB Offset 0)



Date: 12.JUN.2016 16:39:52

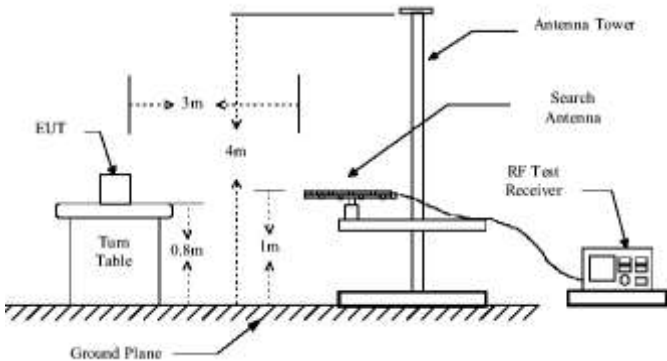
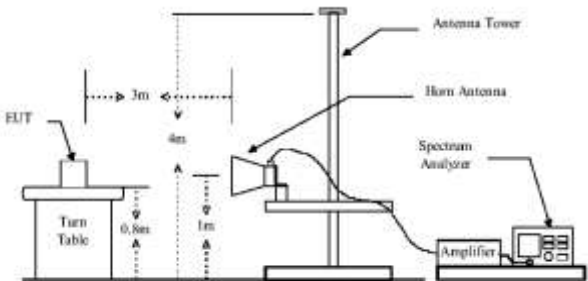
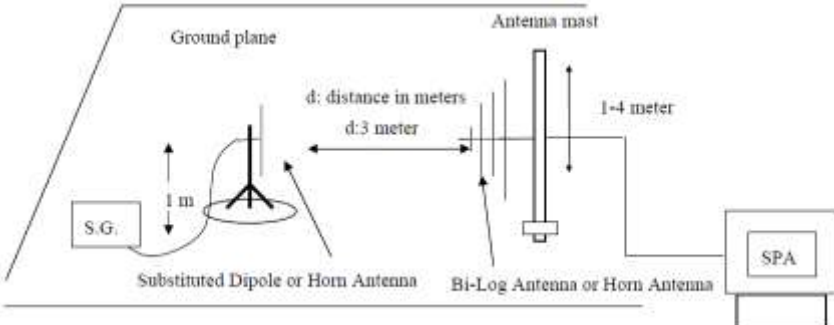
Lowest channel



Date: 12.JUN.2016 16:41:40

Highest channel

6.10 ERP, EIRP Measurement

Test Requirement:	FCC24.232 (c),part 27.50(c),part 27.50(d), part 27.50 (h)
Test Method:	FCC part2.1046
Limit:	LTE Band 2: 2W EIRP LTE Band 4: 1W EIRP LTE Band 7: 2W EIRP LTE Band 17: 3W EIRP
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

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: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 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: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$ 5. The worse case was relating to the conducted output power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case):
LTE band 2 part
Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	21.15	33.00	Pass
					H	21.41		
1850.70	18607	16QAM	1.4	H	V	19.24		
					H	20.87		
1.4MHz(RB size 3 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	21.08	33.00	Pass
					H	20.95		
1850.70	18607	16QAM	1.4	H	V	19.66		
					H	19.79		
1.4MHz(RB size 6 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	19.86	33.00	Pass
					H	20.40		
1850.70	18607	16QAM	1.4	H	V	19.17		
					H	19.24		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	21.35	33.00	Pass
					H	22.03		
1880.00	18900	16QAM	1.4	H	V	19.86		
					H	20.16		
1.4MHz(RB size 3 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	21.56	33.00	Pass
					H	20.98		
1880.00	18900	16QAM	1.4	H	V	19.30		
					H	19.58		
1.4MHz(RB size 6 & RB offset 0)								
1880.00	18900	QPSK	1.40	H	V	19.68	33.00	Pass
					H	20.04		
1880.00	18900	16QAM	1.40	H	V	19.52		
					H	19.32		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	22.03	33.00	Pass
					H	21.58		
1909.30	19193	16QAM	1.4	H	V	19.58		
					H	20.69		
1.4MHz(RB size 3 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	22.45	33.00	Pass
					H	21.69		
1909.30	19193	16QAM	1.4	H	V	20.58		
					H	21.36		
1.4MHz(RB size 6 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	20.69	33.00	Pass
					H	19.58		
1909.30	19193	16QAM	1.4	H	V	19.14		
					H	20.48		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	20.94	33.00	Pass
					H	21.24		
1860.00	18700	16QAM	20	H	V	22.01		
					H	21.86		
20MHz(RB size 50 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	21.49	33.00	Pass
					H	21.69		
1860.00	18700	16QAM	20	H	V	19.41		
					H	20.30		
20MHz(RB size 100 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	19.85	33.00	Pass
					H	19.59		
1860.00	18700	16QAM	20	H	V	19.60		
					H	18.90		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	21.03	33.00	Pass
					H	20.58		
1880.00	18900	16QAM	20	H	V	22.36		
					H	21.47		
20MHz(RB size 50 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	21.06	33.00	Pass
					H	21.47		
1880.00	18900	16QAM	20	H	V	20.35		
					H	19.69		
20MHz(RB size 100 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	20.05	33.00	Pass
					H	19.96		
1880.00	18900	16QAM	20	H	V	20.14		
					H	20.54		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	20.16	33.00	Pass
					H	21.69		
1900.00	19100	16QAM	20	H	V	21.32		
					H	21.05		
20MHz(RB size 50 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	22.03	33.00	Pass
					H	21.48		
1900.00	19100	16QAM	20	H	V	20.69		
					H	20.41		
20MHz(RB size 100 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	19.65	33.00	Pass
					H	20.05		
1900.00	19100	16QAM	20	H	V	21.63		
					H	20.25		

LTE band 4 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.41	30.00	Pass
					H	21.66		
1710.70	19957	16QAM	1.4	H	V	23.55		
					H	21.05		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	20.65	30.00	Pass
					H	19.66		
1710.70	19957	16QAM	1.4	H	V	21.57		
					H	20.10		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	19.74	30.00	Pass
					H	19.21		
1710.70	19957	16QAM	1.4	H	V	19.94		
					H	18.70		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	22.03	30.00	Pass
					H	21.58		
1732.50	20175	16QAM	1.4	H	V	23.69		
					H	22.01		
1.4MHz(RB size 3 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	20.47	30.00	Pass
					H	20.32		
1732.50	20175	16QAM	1.4	H	V	21.96		
					H	20.14		
1.4MHz(RB size 6 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	19.62	30.00	Pass
					H	20.54		
1732.50	20175	16QAM	1.4	H	V	20.05		
					H	19.65		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	22.15	30.00	Pass
					H	21.14		
1754.30	20393	16QAM	1.4	H	V	23.06		
					H	22.48		
1.4MHz(RB size 3 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	20.36	30.00	Pass
					H	21.02		
1754.30	20393	16QAM	1.4	H	V	22.63		
					H	21.51		
1.4MHz(RB size 6 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	19.02	30.00	Pass
					H	19.65		
1754.30	20393	16QAM	1.4	H	V	20.54		
					H	19.63		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	20.05	30.00	Pass
					H	19.71		
1720.00	20050	16QAM	20	H	V	22.80		
					H	20.59		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	20.41	30.00	Pass
					H	19.50		
1720.00	20050	16QAM	20	H	V	21.04		
					H	19.40		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	20.56	30.00	Pass
					H	19.64		
1720.00	20050	16QAM	20	H	V	19.00		
					H	19.53		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	20.35	30.00	Pass
					H	19.68		
1732.50	20175	16QAM	20	H	V	22.03		
					H	21.04		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	20.56	30.00	Pass
					H	19.65		
1732.50	20175	16QAM	20	H	V	21.47		
					H	19.35		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	20.15	30.00	Pass
					H	19.63		
1732.50	20175	16QAM	20	H	V	19.58		
					H	19.32		

High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	21.05	30.00	Pass
					H	20.32		
1745.00	20300	16QAM	20	H	V	22.04		
					H	21.69		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	20.15	30.00	Pass
					H	19.63		
1745.00	20300	16QAM	20	H	V	21.02		
					H	19.56		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	20.14	30.00	Pass
					H	19.63		
1745.00	20300	16QAM	20	H	V	20.05		
					H	19.68		

LTE band 7 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2502.50	20775	QPSK	5	H	V	20.27	33.00	Pass
					H	21.05		
2502.50	20775	16QAM	5	H	V	20.63		
					H	21.02		
5MHz(RB size 12& RB offset 0)								
2502.50	20775	QPSK	5	H	V	20.27	33.00	Pass
					H	19.62		
2502.50	20775	16QAM	5	H	V	20.14		
					H	19.34		
5MHz(RB size 25& RB offset 0)								
2502.50	20775	QPSK	5	H	V	19.68	33.00	Pass
					H	19.33		
2502.50	20775	16QAM	5	H	V	19.45		
					H	20.03		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2535.00	21100	QPSK	5	H	V	21.31	33.00	Pass
					H	21.03		
2535.00	21100	16QAM	5	H	V	20.65		
					H	21.54		
5MHz(RB size 12& RB offset 0)								
2535.00	21100	QPSK	5	H	V	20.14	33.00	Pass
					H	20.65		
2535.00	21100	16QAM	5	H	V	19.62		
					H	20.36		
5MHz(RB size 25& RB offset 0)								
2535.00	21100	QPSK	5	H	V	19.21	33.00	Pass
					H	20.02		
2535.00	21100	16QAM	5	H	V	19.65		
					H	20.14		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2567.50	21425	QPSK	5	H	V	21.41	33.00	Pass
					H	21.36		
2567.50	21425	16QAM	5	H	V	20.56		
					H	20.59		
5MHz(RB size 12& RB offset 0)								
2567.50	21425	QPSK	5	H	V	19.65	33.00	Pass
					H	20.47		
2567.50	21425	16QAM	5	H	V	19.48		
					H	20.17		
5MHz(RB size 25& RB offset 0)								
2567.50	21425	QPSK	5	H	V	19.75	33.00	Pass
					H	19.68		
2567.50	21425	16QAM	5	H	V	20.04		
					H	20.67		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	21.15	33.00	Pass
					H	20.69		
2510.00	20850	16QAM	20	H	V	21.57		
					H	20.31		
20MHz(RB size 50 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	20.14	33.00	Pass
					H	19.68		
2510.00	20850	16QAM	20	H	V	21.05		
					H	20.51		
20MHz(RB size 100 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	20.15	33.00	Pass
					H	19.63		
2510.00	20850	16QAM	20	H	V	20.25		
					H	19.35		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	21.01	33.00	Pass
					H	20.69		
2535.00	21100	16QAM	20	H	V	20.58		
					H	19.65		
20MHz(RB size 50 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	21.54	33.00	Pass
					H	21.31		
2535.00	21100	16QAM	20	H	V	19.60		
					H	20.25		
20MHz(RB size 100 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	20.41	33.00	Pass
					H	19.63		
2535.00	21100	16QAM	20	H	V	18.65		
					H	19.84		

High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	21.54	33.00	Pass
					H	20.21		
2560.00	21350	16QAM	20	H	V	19.69		
					H	18.54		
20MHz(RB size 50 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	20.14	33.00	Pass
					H	19.63		
2560.00	21350	16QAM	20	H	V	21.06		
					H	19.21		
20MHz(RB size 100 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	19.58	33.00	Pass
					H	20.41		
2560.00	21350	16QAM	20	H	V	19.63		
					H	20.21		

**LTE band 17 part
Lowest channel**

Lowest Channel								
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
706.50	23755	QPSK	5	H	V	21.27	34.77	Pass
					H	19.05		
706.50	23755	16QAM	5	H	V	20.13		
					H	19.54		
5MHz(RB size 12 & RB offset 0)								
706.50	23755	QPSK	5	H	V	21.67	34.77	Pass
					H	19.87		
706.50	23755	16QAM	5	H	V	21.53		
					H	19.63		
5MHz(RB size 25 & RB offset 0)								
706.50	23755	QPSK	5	H	V	19.45	34.77	Pass
					H	18.76		
706.50	23755	16QAM	5	H	V	19.74		
					H	19.63		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	5	H	V	21.41	34.77	Pass
					H	19.63		
710.00	23790	16QAM	5	H	V	20.14		
					H	19.63		
5MHz(RB size 12 & RB offset 0)								
710.00	23790	QPSK	5	H	V	21.02	34.77	Pass
					H	19.58		
710.00	23790	16QAM	5	H	V	21.63		
					H	19.20		
5MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	5	H	V	19.32	34.77	Pass
					H	20.02		
710.00	23790	16QAM	5	H	V	19.82		
					H	20.36		

Highest channel

Highest channel								
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
713.50	23825	QPSK	5	H	V	21.05	34.77	Pass
					H	19.63		
713.50	23825	16QAM	5	H	V	20.21		
					H	19.82		
5MHz(RB size 12 & RB offset 0)								
713.50	23825	QPSK	5	H	V	21.01	34.77	Pass
					H	21.47		
713.50	23825	16QAM	5	H	V	20.39		
					H	19.63		
5MHz(RB size 25 & RB offset 0)								
713.50	23825	QPSK	5	H	V	20.15	34.77	Pass
					H	19.63		
713.50	23825	16QAM	5	H	V	21.02		
					H	18.65		

Lowest channel

Lowest channel								
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
709.00	23780	QPSK	10	H	V	21.77	34.77	Pass
					H	19.72		
709.00	23780	16QAM	10	H	V	21.02		
					H	19.63		
10MHz(RB size 25& RB offset 0)								
709.00	23780	QPSK	10	H	V	23.11	34.77	Pass
					H	20.45		
709.00	23780	16QAM	10	H	V	23.25		
					H	20.14		
10MHz(RB size 50& RB offset 0)								
709.00	23780	QPSK	10	H	V	21.43	34.77	Pass
					H	19.07		
709.00	23780	16QAM	10	H	V	20.58		
					H	20.03		

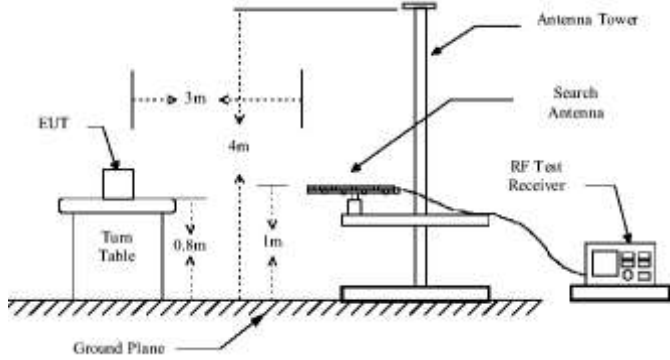
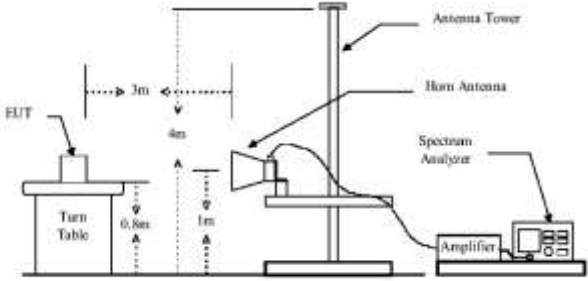
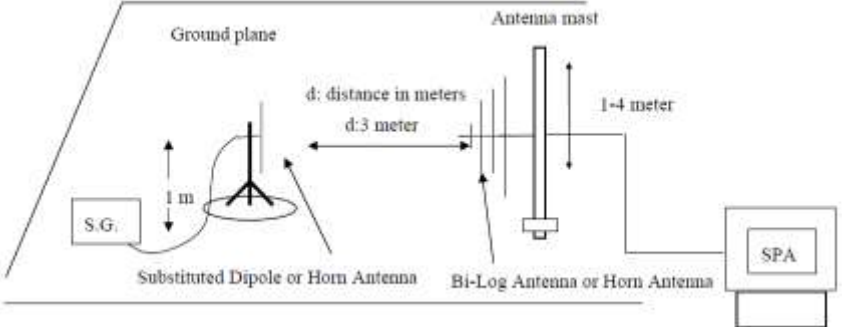
Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
710.00	23790	QPSK	10	H	V	21.58	34.77	Pass
					H	20.36		
710.00	23790	16QAM	10	H	V	21.69		
					H	19.35		
10MHz(RB size 25& RB offset 0)								
710.00	23790	QPSK	10	H	V	22.58	34.77	Pass
					H	21.69		
710.00	23790	16QAM	10	H	V	23.69		
					H	20.14		
10MHz(RB size 50& RB offset 0)								
710.00	23790	QPSK	10	H	V	22.41	34.77	Pass
					H	19.63		
710.00	23790	16QAM	10	H	V	20.47		
					H	20.51		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
711.00	23800	QPSK	10	H	V	21.01	34.77	Pass
					H	20.69		
711.00	23800	16QAM	10	H	V	21.36		
					H	19.58		
10MHz(RB size 25& RB offset 0)								
711.00	23800	QPSK	10	H	V	23.51	34.77	Pass
					H	22.04		
711.00	23800	16QAM	10	H	V	23.68		
					H	21.04		
10MHz(RB size 50& RB offset 0)								
711.00	23800	QPSK	10	H	V	22.01	34.77	Pass
					H	20.03		
711.00	23800	16QAM	10	H	V	19.30		
					H	20.01		

6.11 Field strength of spurious radiation measurement

Test Requirement:	FCCPart 24.238 (a),Part 27.53(g), Part 27.53(m), Part 27.53(h)
Test Method:	FCC part2.1053
Limit:	LTE Band 2, LTE Band 4, LTE Band 17: -13dBm, LTE Band 7: -25dBm
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 
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. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data (worst case):
Below 1GHz:

The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.

Above 1GHz

For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

LTE band 2 part:

1.4MHz(RB size 1 & RB offset 0) for QPSK

LTE Band 2 part. 1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3701.40	Vertical	-44.36	-13.00	Pass
5552.10	V	-41.94		
7402.00	V	-39.96		
3701.40	Horizontal	-41.69		
5552.10	H	-41.72		
7402.00	H	-37.04		
Middle				
3760.00	Vertical	-47.76	-13.00	Pass
5640.00	V	-39.16		
7520.00	V	-39.71		
3760.00	Horizontal	-46.01		
5640.00	H	-41.68		
7520.00	H	-39.43		
Highest				
3816.60	Vertical	-43.46	-13.00	Pass
5724.90	V	-39.22		
7633.20	V	-39.37		
3816.60	Horizontal	-46.42		
5724.90	H	-38.96		
7633.20	H	-38.42		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3703.00	Vertical	-45.21	-13.00	Pass
5554.50	V	-38.65		
7406.00	V	-39.54		
3703.00	Horizontal	-42.14		
5554.50	H	-38.62		
7406.00	H	-37.85		
Middle				
3760.00	Vertical	-47.20	-13.00	Pass
5640.00	V	-38.15		
7520.00	V	-37.62		
3760.00	Horizontal	-48.15		
5640.00	H	-38.62		
7520.00	H	-37.56		
Highest				
3817.00	Vertical	-42.17	-13.00	Pass
5725.50	V	-41.36		
7634.00	V	-39.56		
3817.00	Horizontal	-44.51		
5725.50	H	-41.25		
7634.00	H	-38.56		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3705.00	Vertical	-43.65	-13.00	Pass
5557.50	V	-42.14		
7410.00	V	-39.52		
3705.00	Horizontal	-42.01		
5557.50	H	-41.52		
7410.00	H	-38.62		
Middle				
3760.00	Vertical	-48.62	-13.00	Pass
5640.00	V	-38.26		
7520.00	V	-39.02		
3760.00	Horizontal	-45.04		
5640.00	H	-42.85		
7520.00	H	-40.75		
Highest				
3815.00	Vertical	-43.65	-13.00	Pass
5722.50	V	-38.25		
7630.00	V	-38.62		
3815.00	Horizontal	-45.03		
5722.50	H	-37.45		
7630.00	H	-38.96		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3710.00	Vertical	-45.36	-13.00	Pass
5565.00	V	-37.51		
7420.00	V	-37.69		
3710.00	Horizontal	-43.52		
5565.00	H	-39.62		
7420.00	H	-37.02		
Middle				
3760.00	Vertical	-48.25	-13.00	Pass
5640.00	V	-38.62		
7520.00	V	-37.85		
3760.00	Horizontal	-47.15		
5640.00	H	-39.61		
7520.00	H	-38.52		
Highest				
3810.00	Vertical	-42.52	-13.00	Pass
5715.00	V	-40.68		
7620.00	V	-39.51		
3810.00	Horizontal	-45.21		
5715.00	H	-40.69		
7620.00	H	-38.51		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3715.00	Vertical	-43.25	-13.00	Pass
5572.50	V	-41.56		
7430.00	V	-38.26		
3715.00	Horizontal	-42.35		
5572.50	H	-42.88		
7430.00	H	-38.24		
Middle				
3760.00	Vertical	-48.95	-13.00	Pass
5640.00	V	-37.45		
7520.00	V	-38.51		
3760.00	Horizontal	-45.18		
5640.00	H	-42.36		
7520.00	H	-41.02		
Highest				
3805.00	Vertical	-42.16	-13.00	Pass
5707.50	V	-38.69		
7610.00	V	-37.15		
3805.00	Horizontal	-44.15		
5707.50	H	-38.96		
7610.00	H	-37.84		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3720.00	Vertical	-45.17	-13.00	Pass
5580.00	V	-38.39		
7440.00	V	-38.80		
3720.00	Horizontal	-44.98		
5580.00	H	-40.57		
7440.00	H	-38.66		
Middle				
3760.00	Vertical	-49.17	-13.00	Pass
5640.00	V	-39.35		
7520.00	V	-38.22		
3760.00	Horizontal	-47.27		
5640.00	H	-40.85		
7520.00	H	-38.19		
Highest				
3800.00	Vertical	-43.94	-13.00	Pass
5700.00	V	-40.08		
7600.00	V	-39.29		
3800.00	Horizontal	-45.86		
5700.00	H	-40.58		
7600.00	H	-37.85		

LTE Band 4 Part:

1.4MHz(RB size 1 & RB offset 0) for QPSK

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3421.40	Vertical	-44.84	-13.00	Pass
5132.10	V	-42.79		
6842.80	V	-38.60		
3421.40	Horizontal	-44.20		
5132.10	H	-42.65		
6842.80	H	-40.50		
Middle				
3465.00	Vertical	-47.49	-13.00	Pass
5197.50	V	-42.80		
6930.00	V	-40.09		
3465.00	Horizontal	-43.19		
5197.50	H	-42.06		
6930.00	H	-39.48		
Highest				
3508.60	Vertical	-48.16	-13.00	Pass
5262.90	V	-40.98		
7017.20	V	-39.86		
3508.60	Horizontal	-47.85		
5262.90	H	-40.36		
7017.20	H	-38.82		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-44.15	-13.00	Pass
5134.50	V	-43.65		
6846.00	V	-42.51		
3423.00	Horizontal	-46.35		
5134.50	H	-44.58		
6846.00	H	-39.62		
Middle				
3465.00	Vertical	-41.54	-13.00	Pass
5197.50	V	-42.69		
6930.00	V	-42.01		
3465.00	Horizontal	-45.16		
5197.50	H	-42.06		
6930.00	H	-38.69		
Highest				
3507.00	Vertical	-44.02	-13.00	Pass
5260.50	V	-41.65		
7014.00	V	-38.62		
3507.00	Horizontal	-45.02		
5260.50	H	-42.15		
7014.00	H	-38.62		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-43.65	-13.00	Pass
5137.50	V	-42.51		
6850.00	V	-38.69		
3425.00	Horizontal	-43.24		
5137.50	H	-41.63		
6850.00	H	-40.25		
Middle				
3465.00	Vertical	-46.63	-13.00	Pass
5197.50	V	-42.01		
6930.00	V	-41.65		
3465.00	Horizontal	-43.69		
5197.50	H	-42.02		
6930.00	H	-35.15		
Highest				
3505.00	Vertical	-47.63	-13.00	Pass
5257.50	V	-42.01		
7010.00	V	-39.63		
3505.00	Horizontal	-45.21		
5257.50	H	-41.39		
7010.00	H	-38.52		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-45.21	-13.00	Pass
5145.00	V	-44.65		
6860.00	V	-41.25		
3430.00	Horizontal	-45.96		
5145.00	H	-44.32		
6860.00	H	-38.65		
Middle				
3465.00	Vertical	-42.14	-13.00	Pass
5197.50	V	-43.62		
6930.00	V	-41.05		
3465.00	Horizontal	-46.51		
5197.50	H	-41.65		
6930.00	H	-38.50		
Highest				
3500.00	Vertical	-45.15	-13.00	Pass
5250.00	V	-40.65		
7000.00	V	-38.56		
3500.00	Horizontal	-46.14		
5250.00	H	-41.69		
7000.00	H	-37.82		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-42.15	-13.00	Pass
5152.50	V	-41.63		
6870.00	V	-38.65		
3435.00	Horizontal	-42.01		
5152.50	H	-42.38		
6870.00	H	-41.02		
Middle				
3465.00	Vertical	-45.62	-13.00	Pass
5197.50	V	-41.52		
6930.00	V	-41.69		
3465.00	Horizontal	-42.36		
5197.50	H	-41.02		
6930.00	H	-36.69		
Highest				
3495.00	Vertical	-46.51	-13.00	Pass
5242.50	V	-41.58		
6990.00	V	-38.62		
3495.00	Horizontal	-45.21		
5242.50	H	-41.58		
6990.00	H	-38.62		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-46.88	-13.00	Pass
5160.00	V	-44.20		
6880.00	V	-42.02		
3440.00	Horizontal	-45.86		
5160.00	H	-44.33		
6880.00	H	-39.47		
Middle				
3465.00	Vertical	-42.70	-13.00	Pass
5197.50	V	-43.30		
6930.00	V	-40.79		
3465.00	Horizontal	-47.45		
5197.50	H	-42.83		
6930.00	H	-39.10		
Highest				
3490.00	Vertical	-45.54	-13.00	Pass
5235.00	V	-40.39		
6980.00	V	-39.67		
3490.00	Horizontal	-47.66		
5235.00	H	-42.24		
6980.00	H	-36.70		

LTE Band 7 Part:

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5005.00	Vertical	-40.48	-25.00	Pass
7507.50	V	-38.63		
10010.00	V	-39.41		
5005.00	Horizontal	-39.11		
7507.50	H	-38.71		
10010.00	H	39.49		
Middle				
5070.00	Vertical	-41.42	-25.00	Pass
7605.00	V	-37.84		
10140.00	V	-42.15		
5070.00	Horizontal	-43.32		
7605.00	H	-38.39		
10140.00	H	-39.28		
Highest				
5135.00	Vertical	-43.64	-25.00	Pass
7702.50	V	-37.74		
10270.00	V	-39.43		
5135.00	Horizontal	-42.96		
7702.50	H	-38.15		
10270.00	H	-38.72		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5010.00	Vertical	-40.23	-25.00	Pass
7515.00	V	-39.65		
10020.00	V	-39.51		
5010.00	Horizontal	-42.01		
7515.00	H	-38.62		
10020.00	H	-39.01		
Middle				
5070.00	Vertical	-42.65	-25.00	Pass
7605.00	V	-38.61		
10140.00	V	-39.62		
5070.00	Horizontal	-42.10		
7605.00	H	-38.62		
10140.00	H	-38.45		
Highest				
5130.00	Vertical	-38.92	-25.00	Pass
7695.00	V	-38.14		
10260.00	V	-39.62		
5130.00	Horizontal	-42.15		
7695.00	H	-39.62		
10260.00	H	-38.02		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5015.00	Vertical	-41.62	-25.00	Pass
7522.50	V	-38.15		
10030.00	V	-39.65		
5015.00	Horizontal	-38.24		
7522.50	H	-37.15		
10030.00	H	-38.62		
Middle				
5070.00	Vertical	-42.15	-25.00	Pass
7605.00	V	-37.65		
10140.00	V	-41.59		
5070.00	Horizontal	-42.51		
7605.00	H	-37.15		
10140.00	H	-38.03		
Highest				
5125.00	Vertical	-42.15	-25.00	Pass
7687.50	V	-38.62		
10250.00	V	-38.12		
5125.00	Horizontal	-41.56		
7687.50	H	-37.36		
10250.00	H	-38.15		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5020.00	Vertical	-40.57	-25.00	Pass
7530.00	V	-39.75		
10040.00	V	-39.35		
5020.00	Horizontal	-43.92		
7530.00	H	-39.62		
10040.00	H	-40.48		
Middle				
5070.00	Vertical	-43.59	-25.00	Pass
7605.00	V	-38.72		
10140.00	V	-39.60		
5070.00	Horizontal	-43.10		
7605.00	H	-39.13		
10140.00	H	-38.88		
Highest				
5120.00	Vertical	-39.81	-25.00	Pass
7680.00	V	-39.47		
10240.00	V	-39.90		
5120.00	Horizontal	-43.77		
7680.00	H	-38.69		
10240.00	H	-39.16		

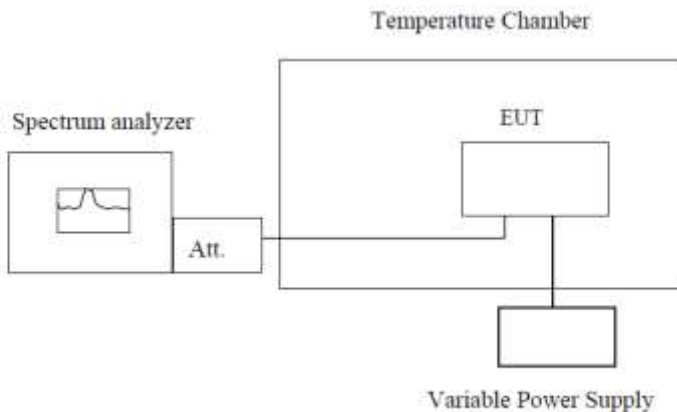
LTE Band 17 Part:

5MHz(RB size 1 & RB offset 0) for QPSK

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1413.00	Vertical	-55.81	-13.00	Pass
2119.50	V	-52.85		
2826.00	V	-52.17		
1413.00	Horizontal	-58.37		
2119.50	H	-52.67		
2826.00	H	-50.60		
Middle				
1420.00	Vertical	-47.15	-13.00	Pass
2130.00	V	-56.64		
2840.00	V	-40.99		
1420.00	Horizontal	-56.53		
2130.00	H	-56.61		
2840.00	H	-41.28		
Highest				
1427.00	Vertical	-55.97	-13.00	Pass
2140.50	V	-57.21		
2854.00	V	-49.43		
1427.00	Horizontal	-57.09		
2140.50	H	-56.29		
2854.00	H	-51.62		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1418.00	Vertical	-54.21	-13.00	Pass
2127.00	V	-53.62		
2836.00	V	-53.01		
1418.00	Horizontal	-57.84		
2127.00	H	-53.62		
2836.00	H	-51.04		
Middle				
1420.00	Vertical	-46.32	-13.00	Pass
2130.00	V	-56.02		
2840.00	V	-40.59		
1420.00	Horizontal	-55.01		
2130.00	H	-56.92		
2840.00	H	-42.15		
Highest				
1422.00	Vertical	-54.96	-13.00	Pass
2133.00	V	-56.01		
2844.00	V	-48.62		
1422.00	Horizontal	-57.81		
2133.00	H	-56.32		
2844.00	H	-52.69		

6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	$\pm 2.5\text{ppm}$
Test setup:	 Note : Measurement setup for testing on Antenna connector
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 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

Measurement Data (the worst channel):

LTE Band 2(QPSK):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	195	0.103723	±2.5	Pass
	-20	138	0.073404		
	-10	156	0.082979		
	0	152	0.080851		
	10	173	0.092021		
	20	115	0.061170		
	30	104	0.055319		
	40	130	0.069149		
	50	121	0.064362		

Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	129	0.068617	±2.5	Pass
	-20	155	0.082447		
	-10	126	0.067021		
	0	142	0.075532		
	10	131	0.069681		
	20	121	0.064362		
	30	178	0.094681		
	40	151	0.080319		
	50	136	0.072340		

Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	159	0.084574	±2.5	Pass
	-20	145	0.077128		
	-10	138	0.073404		
	0	135	0.071809		
	10	164	0.087234		
	20	153	0.081383		
	30	118	0.062766		
	40	129	0.068617		
	50	104	0.055319		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	159	0.084574	±2.5	Pass
	-20	165	0.087766		
	-10	122	0.064894		
	0	133	0.070745		
	10	135	0.071809		
	20	142	0.075532		
	30	140	0.074468		
	40	105	0.055851		
	50	116	0.061702		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	158	0.084043	±2.5	Pass
	-20	125	0.066489		
	-10	166	0.088298		
	0	105	0.055851		
	10	178	0.094681		
	20	119	0.063298		
	30	125	0.066489		
	40	135	0.071809		
	50	134	0.071277		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	180	0.095745	±2.5	Pass
	-20	125	0.066489		
	-10	136	0.072340		
	0	135	0.071809		
	10	128	0.068085		
	20	104	0.055319		
	30	119	0.063298		
	40	108	0.057447		
	50	165	0.087766		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.082447	±2.5	Pass
	-20	126	0.067021		
	-10	128	0.068085		
	0	105	0.055851		
	10	104	0.055319		
	20	121	0.064362		
	30	138	0.073404		
	40	149	0.079255		
	50	123	0.065426		

Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.087766	±2.5	Pass
	-20	127	0.067553		
	-10	125	0.066489		
	0	104	0.055319		
	10	112	0.059574		
	20	156	0.082979		
	30	145	0.077128		
	40	148	0.078723		
	50	102	0.054255		

Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	179	0.095213	±2.5	Pass
	-20	139	0.073936		
	-10	125	0.066489		
	0	125	0.066489		
	10	138	0.073404		
	20	142	0.075532		
	30	145	0.077128		
	40	108	0.057447		
	50	104	0.055319		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	163	0.086702	±2.5	Pass
	-20	155	0.082447		
	-10	139	0.073936		
	0	145	0.077128		
	10	148	0.078723		
	20	135	0.071809		
	30	102	0.054255		
	40	106	0.056383		
	50	115	0.061170		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	168	0.089362	±2.5	Pass
	-20	120	0.063830		
	-10	125	0.066489		
	0	146	0.077660		
	10	145	0.077128		
	20	112	0.059574		
	30	153	0.081383		
	40	136	0.072340		
	50	103	0.054787		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	169	0.089894	±2.5	Pass
	-20	120	0.063830		
	-10	145	0.077128		
	0	144	0.076596		
	10	124	0.065957		
	20	106	0.056383		
	30	118	0.062766		
	40	115	0.061170		
	50	107	0.056915		

LTE Band 4(QPSK):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	185	0.106782	±2.5	Pass
	-20	156	0.090043		
	-10	126	0.072727		
	0	132	0.076190		
	10	103	0.059452		
	20	105	0.060606		
	30	114	0.065801		
	40	114	0.065801		
	50	148	0.085426		

Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	157	0.090620	±2.5	Pass
	-20	120	0.069264		
	-10	136	0.078499		
	0	162	0.093506		
	10	149	0.086003		
	20	145	0.083694		
	30	105	0.060606		
	40	108	0.062338		
	50	114	0.065801		

Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	156	0.090043	±2.5	Pass
	-20	126	0.072727		
	-10	135	0.077922		
	0	142	0.081962		
	10	125	0.072150		
	20	125	0.072150		
	30	114	0.065801		
	40	124	0.071573		
	50	116	0.066955		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.089466	±2.5	Pass
	-20	126	0.072727		
	-10	138	0.079654		
	0	135	0.077922		
	10	122	0.070418		
	20	148	0.085426		
	30	144	0.083117		
	40	118	0.068110		
	50	119	0.068687		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	135	0.077922	±2.5	Pass
	-20	122	0.070418		
	-10	125	0.072150		
	0	148	0.085426		
	10	145	0.083694		
	20	112	0.064646		
	30	116	0.066955		
	40	105	0.060606		
	50	108	0.062338		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	190	0.109668	±2.5	Pass
	-20	122	0.070418		
	-10	184	0.106205		
	0	176	0.101587		
	10	145	0.083694		
	20	165	0.095238		
	30	120	0.069264		
	40	136	0.078499		
	50	149	0.086003		

LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	136	0.078499	±2.5	Pass
	-20	120	0.069264		
	-10	146	0.084271		
	0	105	0.060606		
	10	128	0.073882		
	20	145	0.083694		
	30	116	0.066955		
	40	105	0.060606		
	50	108	0.062338		

Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.089466	±2.5	Pass
	-20	126	0.072727		
	-10	168	0.096970		
	0	127	0.073304		
	10	145	0.083694		
	20	145	0.083694		
	30	142	0.081962		
	40	139	0.080231		
	50	136	0.078499		

Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	168	0.096970	±2.5	Pass
	-20	150	0.086580		
	-10	105	0.060606		
	0	106	0.061183		
	10	118	0.068110		
	20	115	0.066378		
	30	122	0.070418		
	40	124	0.071573		
	50	112	0.064646		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	159	0.091775	±2.5	Pass
	-20	128	0.073882		
	-10	105	0.060606		
	0	168	0.096970		
	10	107	0.061760		
	20	115	0.066378		
	30	101	0.058297		
	40	125	0.072150		
	50	146	0.084271		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	177	0.102165	±2.5	Pass
	-20	154	0.088889		
	-10	146	0.084271		
	0	155	0.089466		
	10	103	0.059452		
	20	136	0.078499		
	30	135	0.077922		
	40	126	0.072727		
	50	108	0.062338		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	156	0.090043	±2.5	Pass
	-20	125	0.072150		
	-10	122	0.070418		
	0	108	0.062338		
	10	112	0.064646		
	20	119	0.068687		
	30	115	0.066378		
	40	104	0.060029		
	50	142	0.081962		

LTE Band 7(QPSK):

LTE Band 7(5MHz)

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	172	0.067850	±2.5	Pass
	-20	105	0.041420		
	-10	132	0.052071		
	0	146	0.057594		
	10	163	0.064300		
	20	176	0.069428		
	30	105	0.041420		
	40	118	0.046548		
	50	135	0.053254		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	138	0.054438	±2.5	Pass
	-20	135	0.053254		
	-10	142	0.056016		
	0	124	0.048915		
	10	135	0.053254		
	20	149	0.058777		
	30	125	0.049310		
	40	112	0.044181		
	50	115	0.045365		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	149	0.058777	±2.5	Pass
	-20	120	0.047337		
	-10	134	0.052860		
	0	146	0.057594		
	10	142	0.056016		
	20	135	0.053254		
	30	156	0.061538		
	40	117	0.046154		
	50	105	0.041420		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	178	0.070217	±2.5	Pass
	-20	154	0.060750		
	-10	165	0.065089		
	0	155	0.061144		
	10	132	0.052071		
	20	135	0.053254		
	30	160	0.063116		
	40	103	0.040631		
	50	114	0.044970		

LTE Band 7(16QAM):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100Frequency=2535.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	179	0.070611	±2.5	Pass
	-20	145	0.057199		
	-10	132	0.052071		
	0	138	0.054438		
	10	145	0.057199		
	20	164	0.064694		
	30	116	0.045759		
	40	125	0.049310		
	50	108	0.042604		

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	138	0.054438	±2.5	Pass
	-20	126	0.049704		
	-10	168	0.066272		
	0	145	0.057199		
	10	114	0.044970		
	20	112	0.044181		
	30	140	0.055227		
	40	109	0.042998		
	50	105	0.041420		

Reference Frequency: LTE Band 7(15MHz) Middle channel=21100Frequency=2535.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	145	0.057199	2.5	Pass
	-20	126	0.049704		
	-10	128	0.050493		
	0	135	0.053254		
	10	135	0.053254		
	20	145	0.057199		
	30	126	0.049704		
	40	108	0.042604		
	50	115	0.045365		

Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	166	0.065483	2.5	Pass
	-20	105	0.041420		
	-10	102	0.040237		
	0	135	0.053254		
	10	136	0.053649		
	20	115	0.045365		
	30	115	0.045365		
	40	148	0.058383		
	50	118	0.046548		

LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	169	0.238028	±2.5	Pass
	-20	165	0.232394		
	-10	127	0.178873		
	0	132	0.185915		
	10	143	0.201408		
	20	144	0.202817		
	30	154	0.216901		
	40	140	0.197183		
	50	163	0.229577		

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	190	0.267606	±2.5	Pass
	-20	125	0.176056		
	-10	124	0.174648		
	0	158	0.222535		
	10	116	0.163380		
	20	145	0.204225		
	30	144	0.202817		
	40	138	0.194366		
	50	139	0.195775		

LTE Band 17(16QAM):

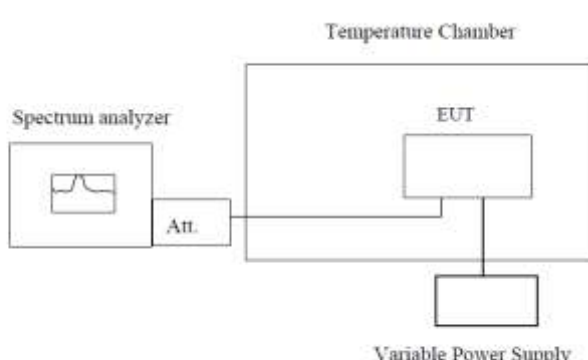
Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	136	0.191549	±2.5	Pass
	-20	139	0.195775		
	-10	108	0.152113		
	0	147	0.207042		
	10	165	0.232394		
	20	102	0.143662		
	30	114	0.160563		
	40	115	0.161972		
	50	115	0.161972		

Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	178	0.250704	±2.5	Pass
	-20	152	0.214085		
	-10	126	0.177465		
	0	165	0.232394		
	10	152	0.214085		
	20	114	0.160563		
	30	115	0.161972		
	40	106	0.149296		
	50	103	0.145070		

6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
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 5.8 for details
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.
Test results:	Passed

Measurement Data (the worst channel):

LTE Band 2(QPSK):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	80	0.042553	±2.5	Pass
	3.80	59	0.031383		
	3.23	55	0.029255		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	77	0.040957	±2.5	Pass
	3.80	78	0.041489		
	3.23	85	0.045213		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	90	0.047872	±2.5	Pass
	3.80	56	0.029787		
	3.23	85	0.045213		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	66	0.035106	±2.5	Pass
	3.80	80	0.042553		
	3.23	59	0.031383		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	85	0.045213	±2.5	Pass
	3.80	79	0.042021		
	3.23	78	0.041489		
Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	99	0.052660	±2.5	Pass
	3.80	85	0.045213		
	3.23	70	0.037234		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	67	0.035638	±2.5	Pass
	3.80	49	0.026064		
	3.23	58	0.030851		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	74	0.039362	±2.5	Pass
	3.80	79	0.042021		
	3.23	59	0.031383		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	58	0.030851	±2.5	Pass
	3.80	59	0.031383		
	3.23	67	0.035638		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	70	0.037234	±2.5	Pass
	3.80	49	0.026064		
	3.23	91	0.048404		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	80	0.042553	±2.5	Pass
	3.80	59	0.031383		
	3.23	69	0.036702		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	58	0.030851	±2.5	Pass
	3.80	59	0.031383		
	3.23	49	0.026064		

LTE Band 4(QPSK):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	79	0.045599	±2.5	Pass
	3.80	77	0.044444		
	3.23	59	0.034055		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	39	0.022511	±2.5	Pass
	3.80	80	0.046176		
	3.23	74	0.042713		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	66	0.038095	±2.5	Pass
	3.80	89	0.051371		
	3.23	82	0.047330		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	80	0.046176	±2.5	Pass
	3.80	59	0.034055		
	3.23	90	0.051948		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	49	0.028283	±2.5	Pass
	3.80	58	0.033478		
	3.23	79	0.045599		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	69	0.039827	±2.5	Pass
	3.80	86	0.049639		
	3.23	82	0.047330		

LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	79	0.045599	±2.5	Pass
	3.80	78	0.045022		
	3.23	49	0.028283		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	88	0.050794	±2.5	Pass
	3.80	59	0.034055		
	3.23	58	0.033478		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	80	0.046176	±2.5	Pass
	3.80	79	0.045599		
	3.23	78	0.045022		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	85	0.049062	±2.5	Pass
	3.80	66	0.038095		
	3.23	49	0.028283		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	69	0.039827	±2.5	Pass
	3.80	39	0.022511		
	3.23	85	0.049062		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	59	0.034055	±2.5	Pass
	3.80	74	0.042713		
	3.23	79	0.045599		

LTE Band 7(QPSK):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	69	0.027219	±2.5	Pass
	3.80	78	0.030769		
	3.23	89	0.035108		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	85	0.033531	±2.5	Pass
	3.80	90	0.035503		
	3.23	59	0.023274		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	69	0.027219	±2.5	Pass
	3.80	78	0.030769		
	3.23	70	0.027613		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	74	0.029191	±2.5	Pass
	3.80	88	0.034714		
	3.23	59	0.023274		

LTE Band 7(16QAM):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	85	0.033531	±2.5	Pass
	3.80	92	0.036292		
	3.23	59	0.023274		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	79	0.031164	±2.5	Pass
	3.80	49	0.019329		
	3.23	96	0.037870		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	67	0.026430	±2.5	Pass
	3.80	49	0.019329		
	3.23	88	0.034714		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	96	0.037870	±2.5	Pass
	3.80	89	0.035108		
	3.23	85	0.033531		

LTE Band 17(QPSK):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	85	0.119718	±2.5	Pass
	3.80	82	0.115493		
	3.23	96	0.135211		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	85	0.119718	±2.5	Pass
	3.80	49	0.069014		
	3.23	46	0.064789		

LTE Band 17(16QAM):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	75	0.105634	±2.5	Pass
	3.80	48	0.067606		
	3.23	48	0.067606		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	96	0.135211	±2.5	Pass
	3.80	63	0.088732		
	3.23	85	0.119718		