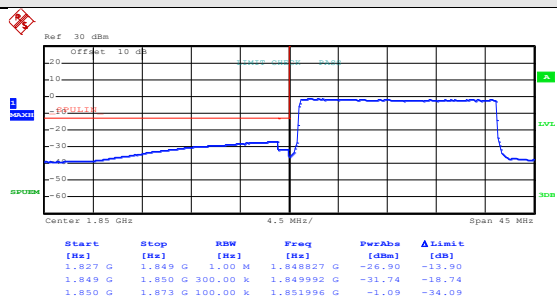


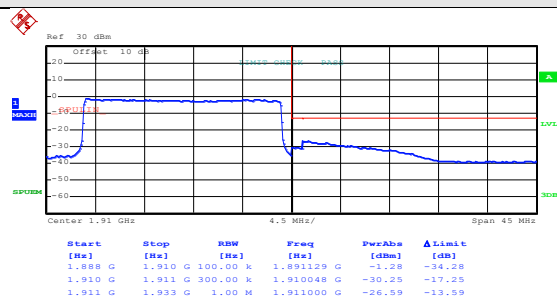
Test Mode:

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



Date: 14.AUG.2016 10:22:24

Lowest channel

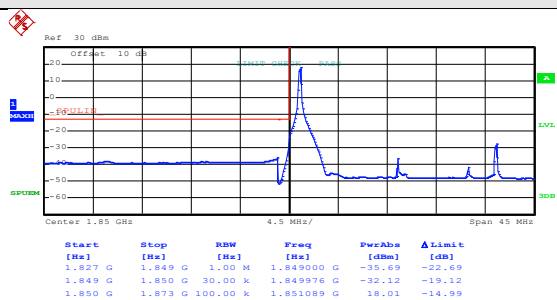


Date: 14.AUG.2016 10:24:39

Highest channel

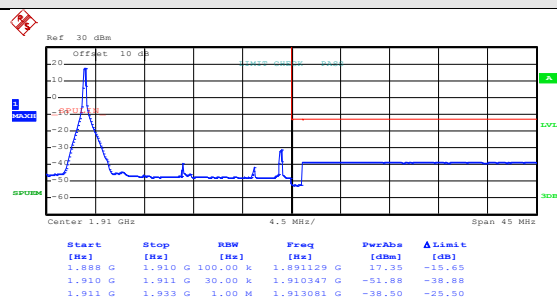
Test Mode:

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



Date: 14.AUG.2016 10:20:26

Lowest channel

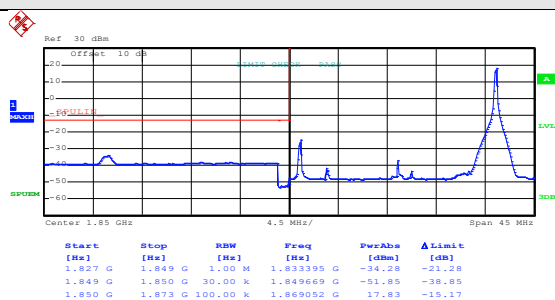


Date: 14.AUG.2016 10:22:58

Highest channel

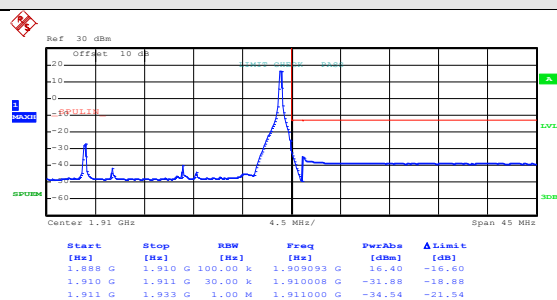
Test Mode:

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



Date: 14.AUG.2016 10:20:47

Lowest channel

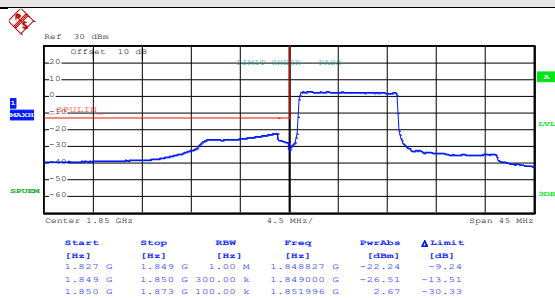


Date: 14.AUG.2016 10:23:17

Highest channel

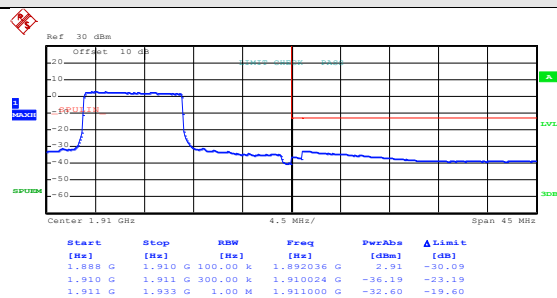
Test Mode:

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



Date: 14.AUG.2016 10:21:25

Lowest channel

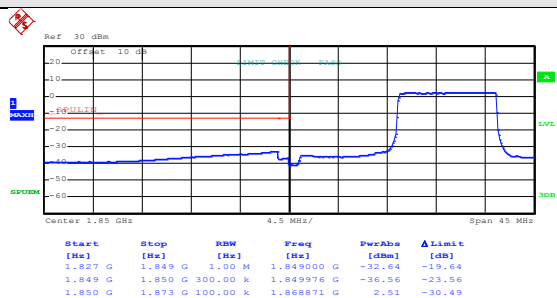


Date: 14.AUG.2016 10:23:48

Highest channel

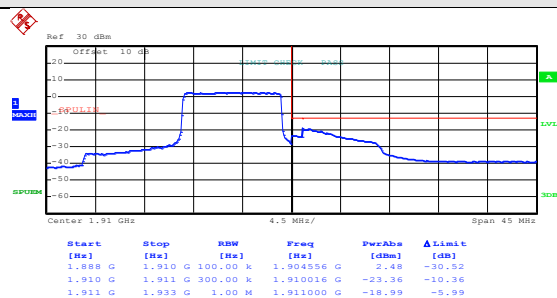
Test Mode:

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



Date: 14.AUG.2016 10:21:47

Lowest channel

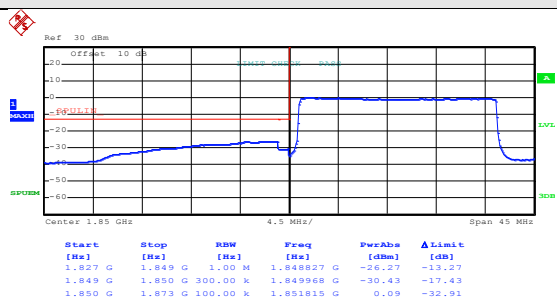


Date: 14.AUG.2016 10:24:09

Highest channel

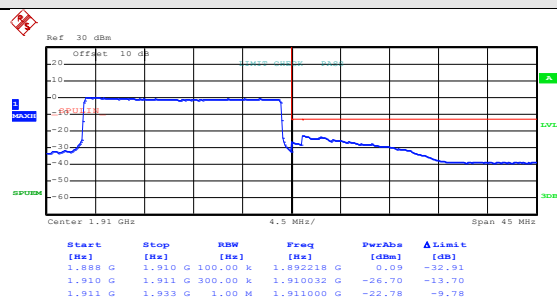
Test Mode:

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



Date: 14.AUG.2016 10:22:18

Lowest channel



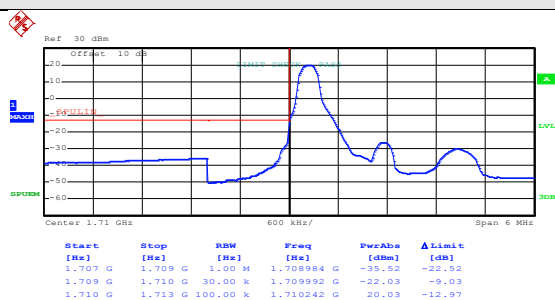
Date: 14.AUG.2016 10:24:32

Highest channel

LTE band 4 part: 1.4MHz:

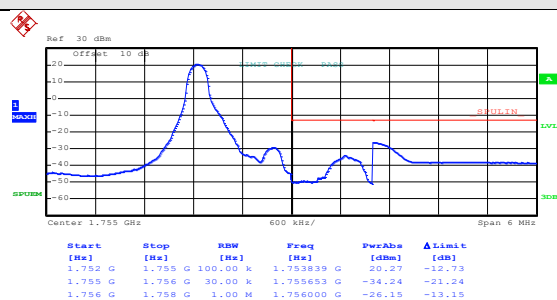
Test Mode:

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



Date: 14.AUG.2016 10:54:24

Lowest channel

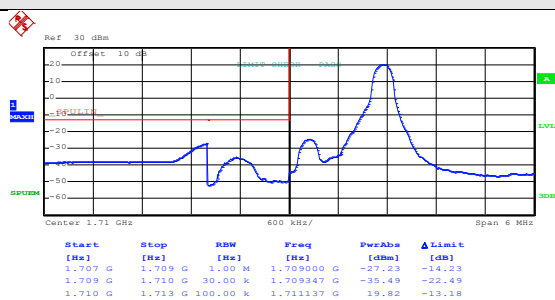


Date: 14.AUG.2016 10:56:32

Highest channel

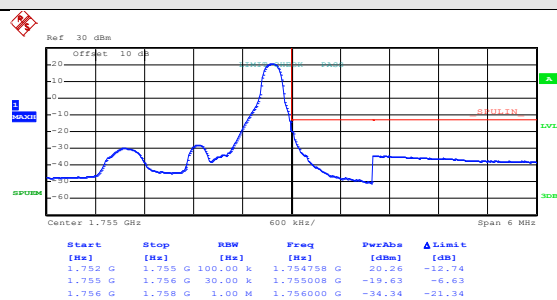
Test Mode:

LTE band 4(QPSK RB Size 1 & RB Offset 5)



Date: 14.AUG.2016 10:54:50

Lowest channel

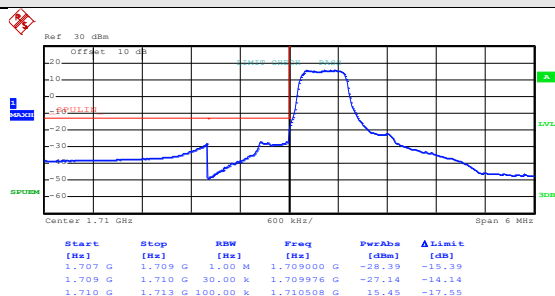


Date: 14.AUG.2016 10:56:52

Highest channel

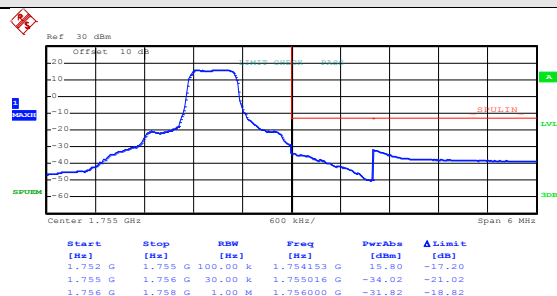
Test Mode:

LTE band 4(QPSK RB Size 3 & RB Offset 0)



Date: 14.AUG.2016 10:55:12

Lowest channel

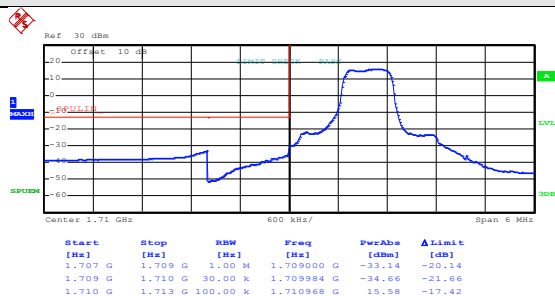


Date: 14.AUG.2016 10:57:14

Highest channel

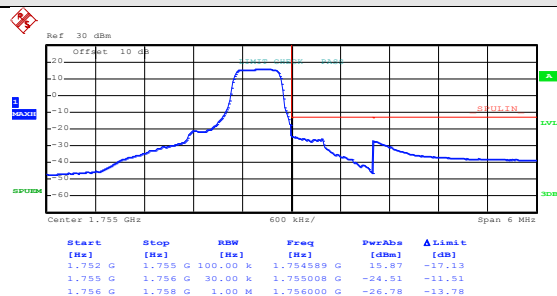
Test Mode:

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



Date: 14.AUG.2016 10:55:34

Lowest channel

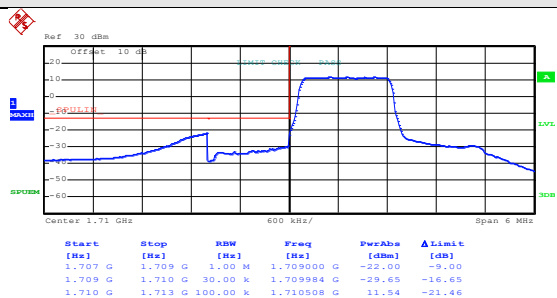


Date: 14.AUG.2016 11:01:35

Highest channel

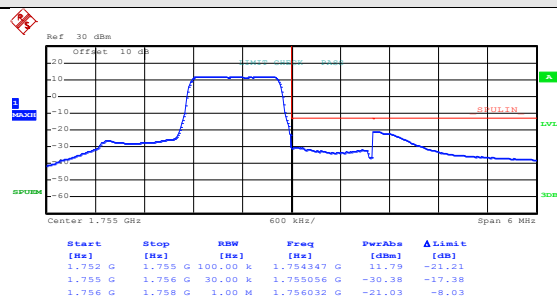
Test Mode:

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



Date: 14.AUG.2016 10:55:56

Lowest channel

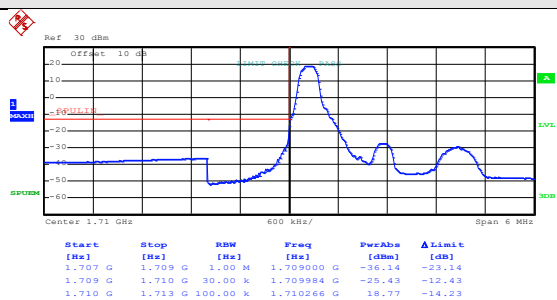


Date: 14.AUG.2016 11:02:00

Highest channel

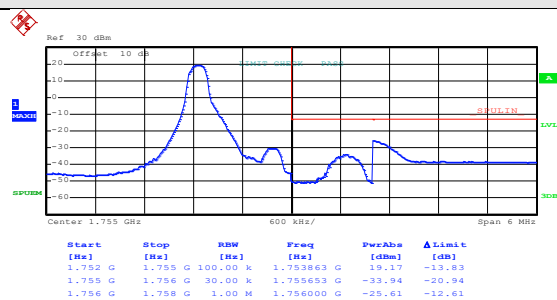
Test Mode:

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



Date: 14.AUG.2016 10:54:36

Lowest channel

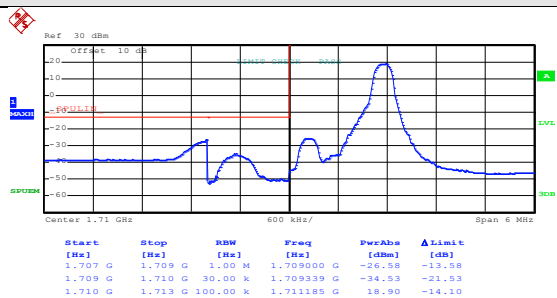


Date: 14.AUG.2016 10:56:39

Highest channel

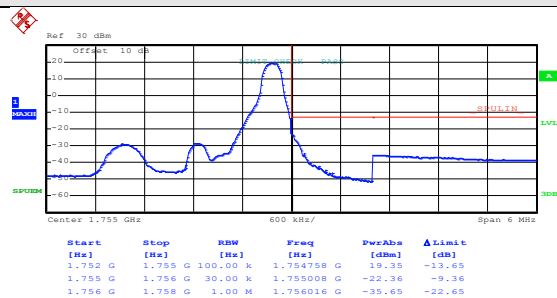
Test Mode:

LTE band 4(16QAM RB Size 1 & RB Offset 5)



Date: 14.AUG.2016 10:54:59

Lowest channel

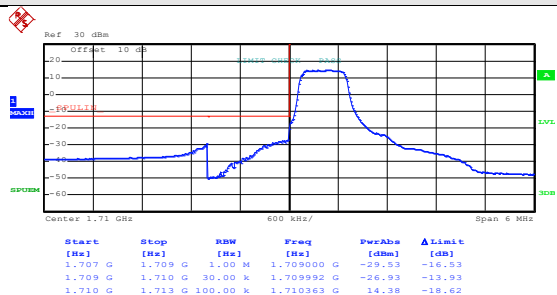


Date: 14.AUG.2016 10:57:01

Highest channel

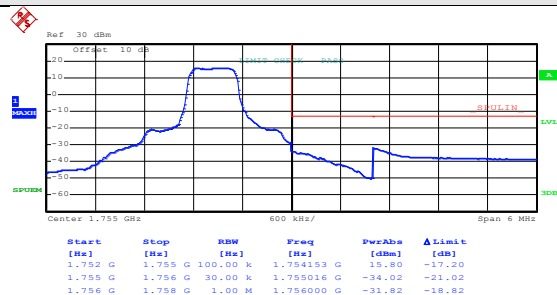
Test Mode:

LTE band 4(16QAM RB Size 3 & RB Offset 0)



Date: 14.AUG.2016 10:55:20

Lowest channel

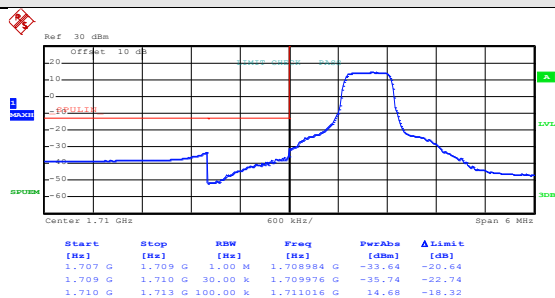


Date: 14.AUG.2016 10:57:14

Highest channel

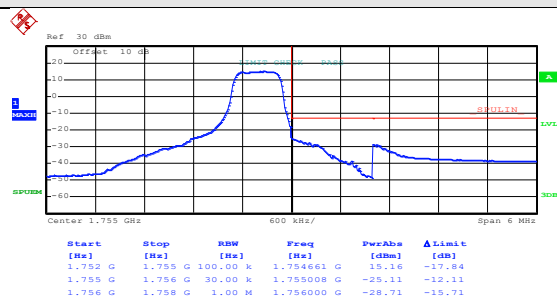
Test Mode:

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



Date: 14.AUG.2016 10:55:43

Lowest channel

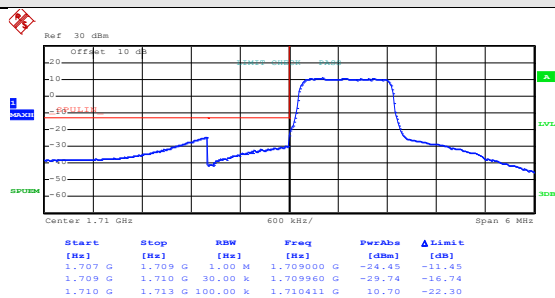


Date: 14.AUG.2016 11:01:46

Highest channel

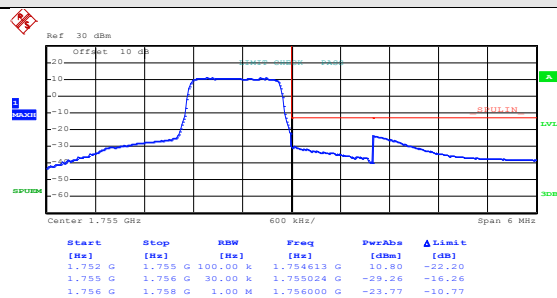
Test Mode:

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



Date: 14.AUG.2016 10:56:02

Lowest channel



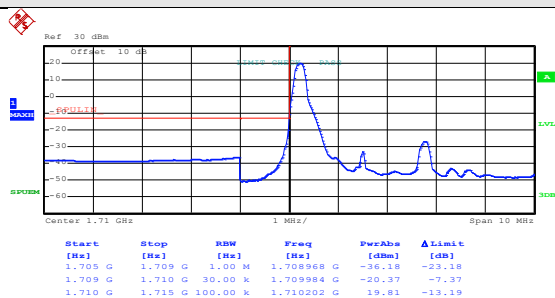
Date: 14.AUG.2016 11:02:08

Highest channel

3MHz:

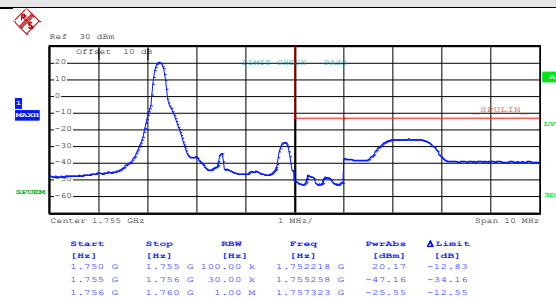
Test Mode:

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



Date: 14.AUG.2016 11:03:10

Lowest channel

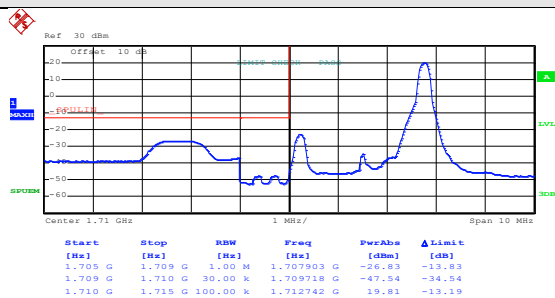


Date: 14.AUG.2016 11:05:35

Highest channel

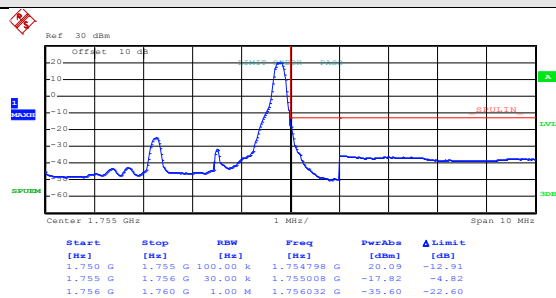
Test Mode:

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



Date: 14.AUG.2016 11:03:30

Lowest channel

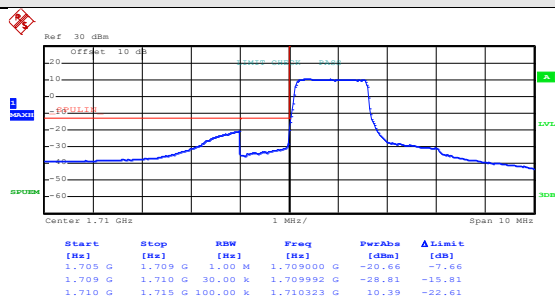


Date: 14.AUG.2016 11:05:54

Highest channel

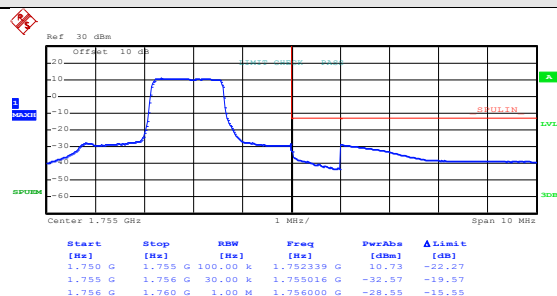
Test Mode:

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



Date: 14.AUG.2016 11:03:52

Lowest channel

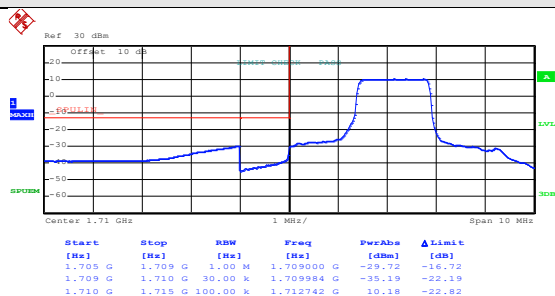


Date: 14.AUG.2016 11:06:16

Highest channel

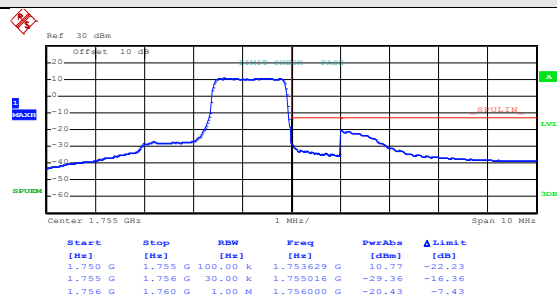
Test Mode:

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



Date: 14.AUG.2016 11:04:16

Lowest channel

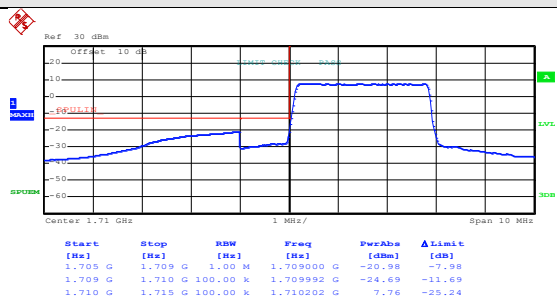


Date: 14.AUG.2016 11:06:36

Highest channel

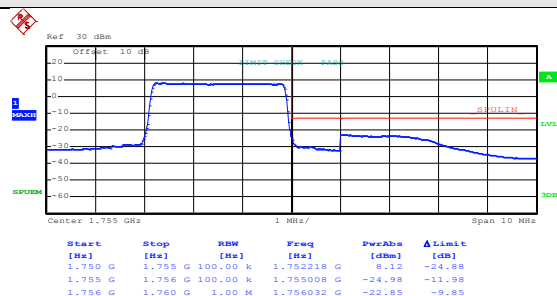
Test Mode:

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



Date: 14.AUG.2016 11:04:53

Lowest channel

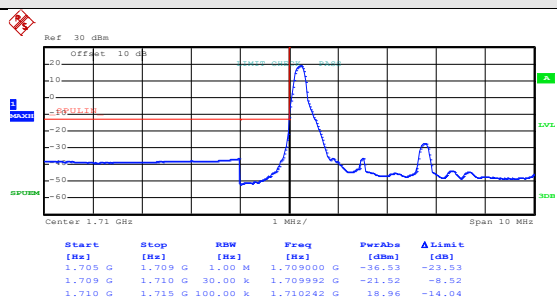


Date: 14.AUG.2016 11:07:02

Highest channel

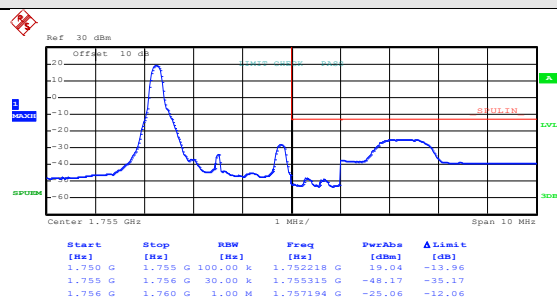
Test Mode:

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



Date: 14.AUG.2016 11:03:18

Lowest channel

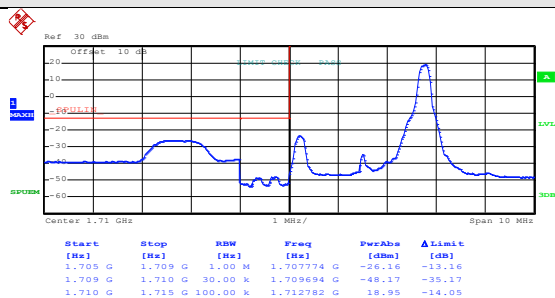


Date: 14.AUG.2016 11:05:43

Highest channel

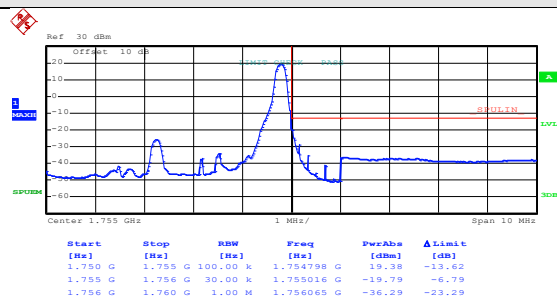
Test Mode:

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



Date: 14.AUG.2016 11:03:38

Lowest channel

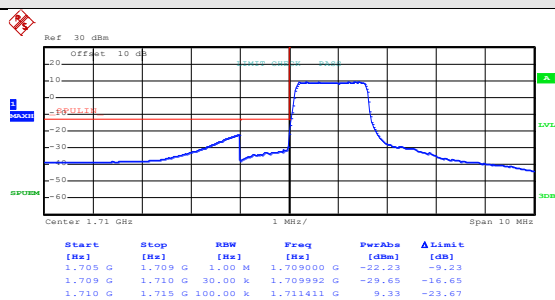


Date: 14.AUG.2016 11:06:03

Highest channel

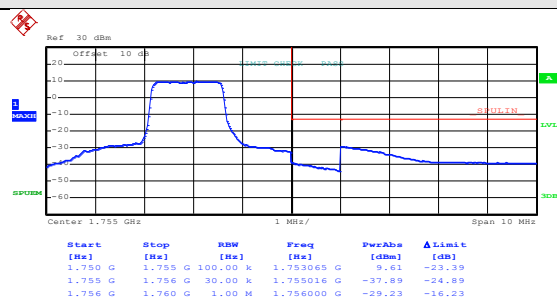
Test Mode:

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



Date: 14.AUG.2016 11:04:02

Lowest channel

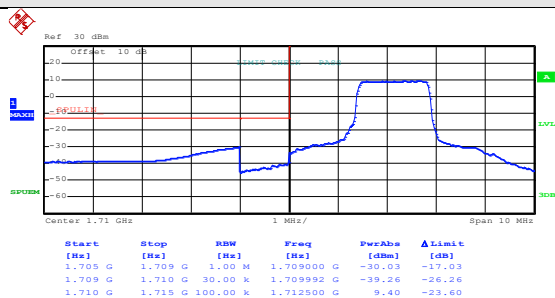


Date: 14.AUG.2016 11:06:23

Highest channel

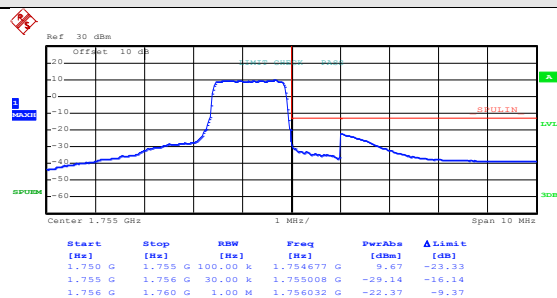
Test Mode:

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



Date: 14.AUG.2016 11:04:26

Lowest channel

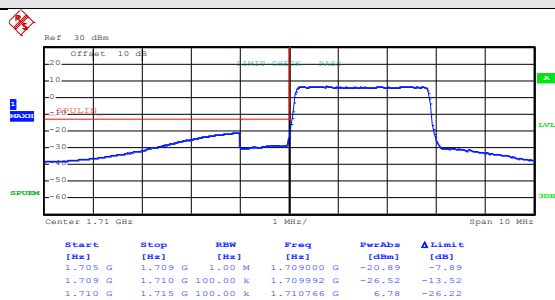


Date: 14.AUG.2016 11:06:47

Highest channel

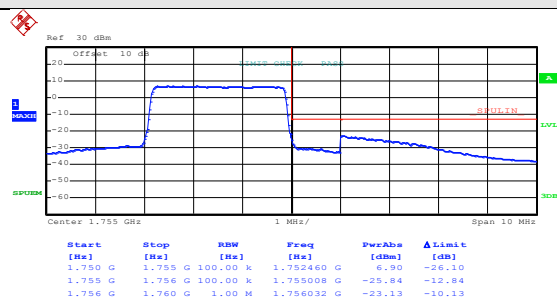
Test Mode:

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



Date: 14.AUG.2016 11:05:00

Lowest channel

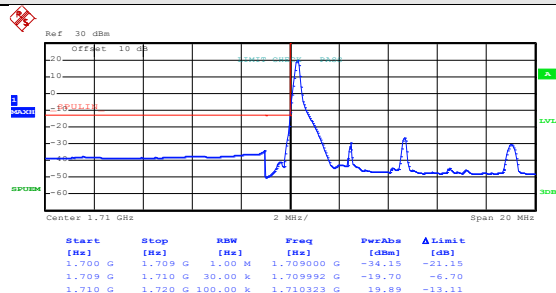


Date: 14.AUG.2016 11:07:09

Highest channel

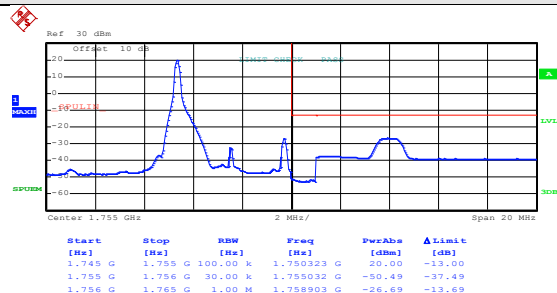
5MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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Date: 14.AUG.2016 11:08:05

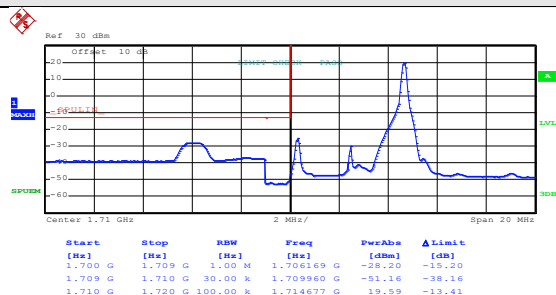
Lowest channel



Date: 14.AUG.2016 11:10:45

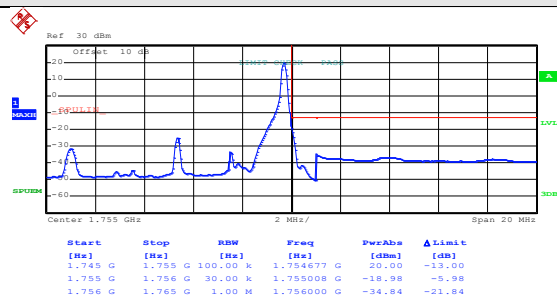
Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 24)
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Date: 14.AUG.2016 11:08:23

Lowest channel

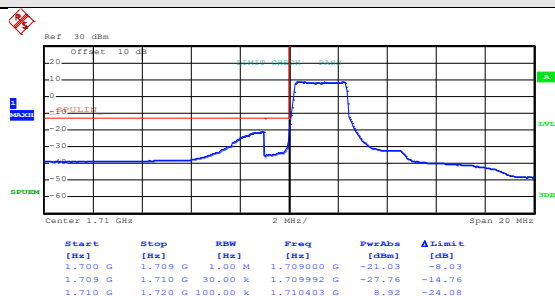


Date: 14.AUG.2016 11:11:21

Highest channel

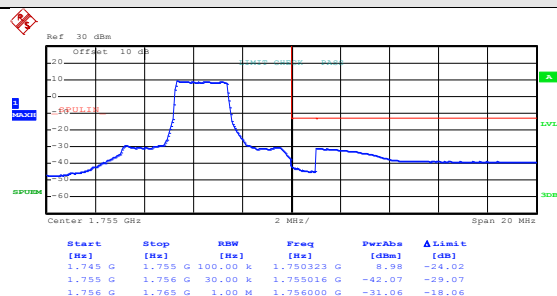
Test Mode:

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



Date: 14.AUG.2016 11:08:45

Lowest channel

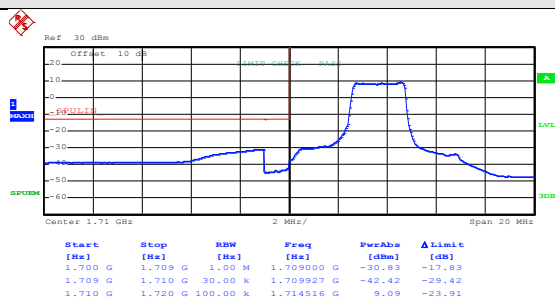


Date: 14.AUG.2016 11:11:43

Highest channel

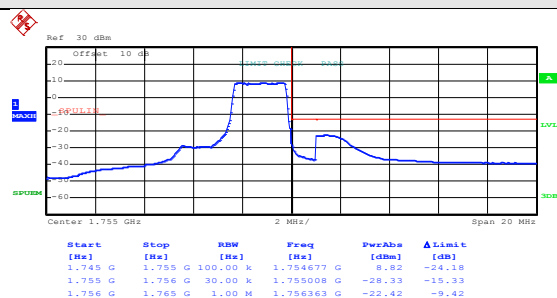
Test Mode:

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



Date: 14.AUG.2016 11:09:29

Lowest channel

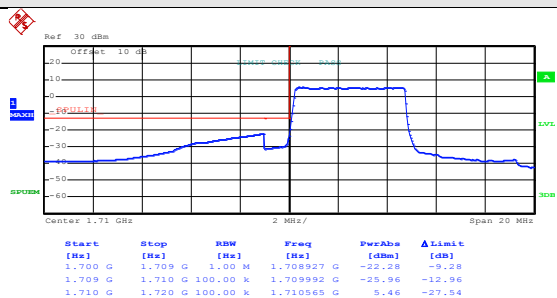


Date: 14.AUG.2016 11:12:07

Highest channel

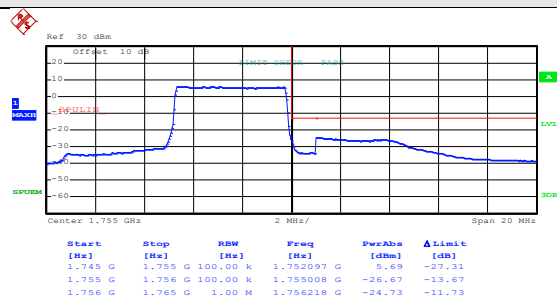
Test Mode:

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



Date: 14.AUG.2016 11:10:09

Lowest channel

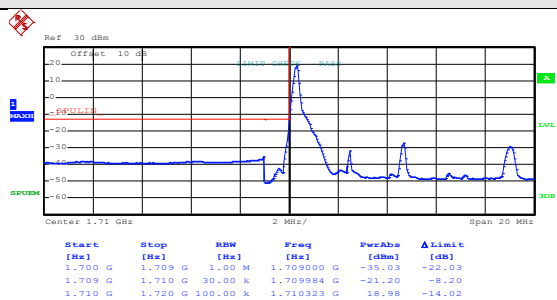


Date: 14.AUG.2016 11:12:36

Highest channel

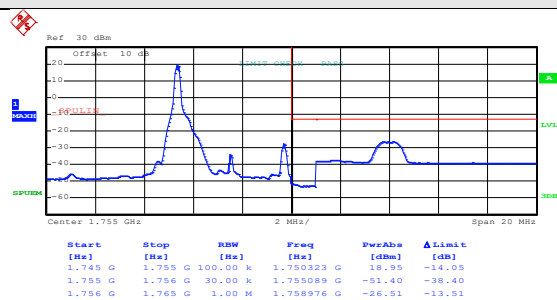
Test Mode:

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



Date: 14.AUG.2016 11:08:13

Lowest channel

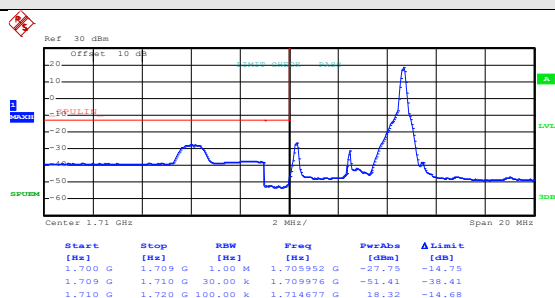


Date: 14.AUG.2016 11:10:52

Highest channel

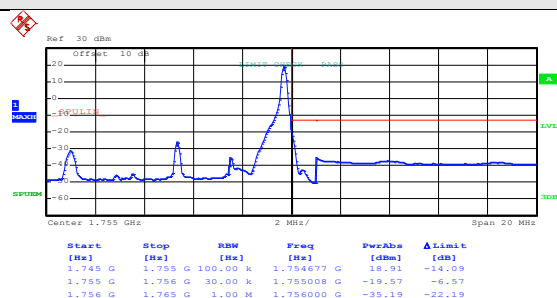
Test Mode:

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



Date: 14.AUG.2016 11:08:32

Lowest channel

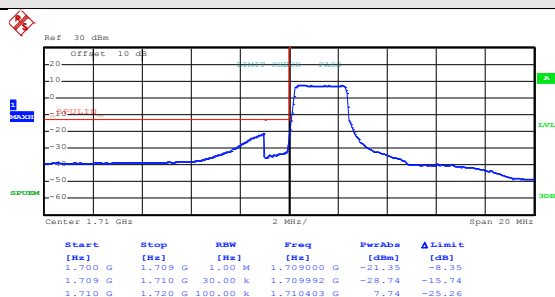


Date: 14.AUG.2016 11:11:29

Highest channel

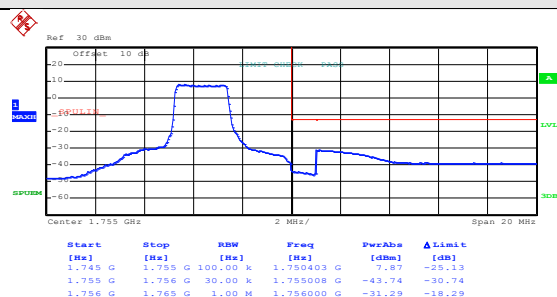
Test Mode:

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



Date: 14.AUG.2016 11:08:53

Lowest channel

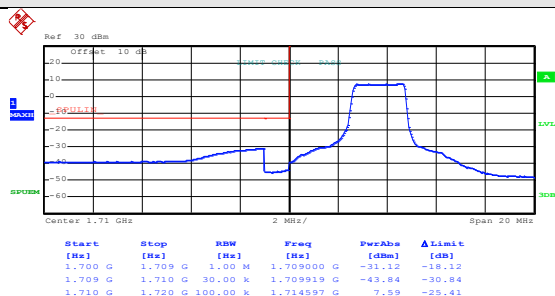


Date: 14.AUG.2016 11:11:51

Highest channel

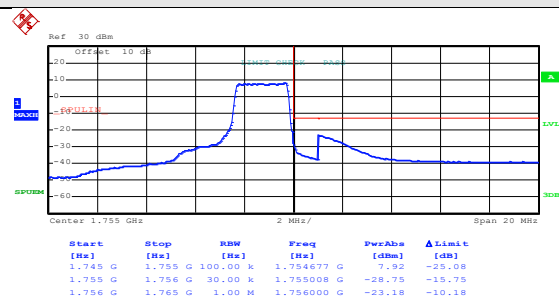
Test Mode:

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



Date: 14.AUG.2016 11:09:42

Lowest channel

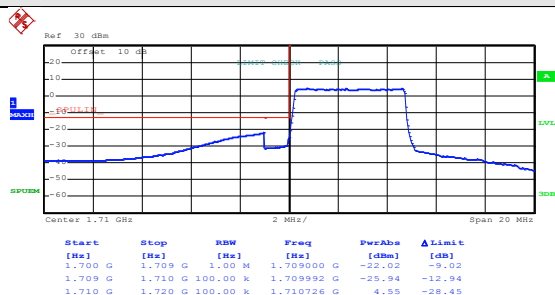


Date: 14.AUG.2016 11:12:15

Highest channel

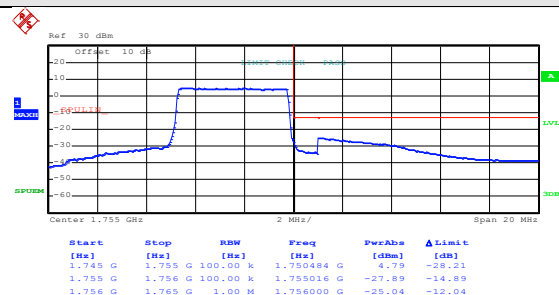
Test Mode:

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



Date: 14.AUG.2016 11:10:17

Lowest channel



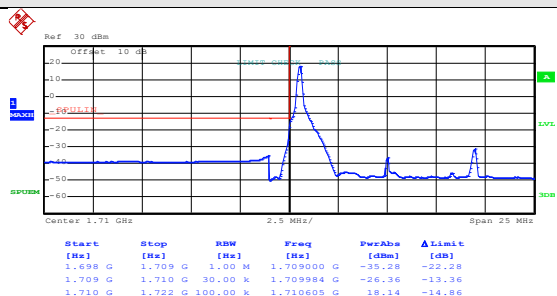
Date: 14.AUG.2016 11:12:43

Highest channel

10MHz:

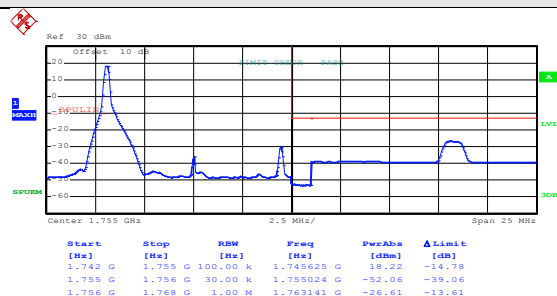
Test Mode:

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



Date: 14.AUG.2016 11:13:45

Lowest channel

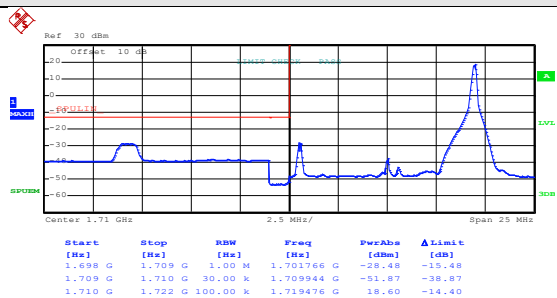


Date: 14.AUG.2016 11:16:04

Highest channel

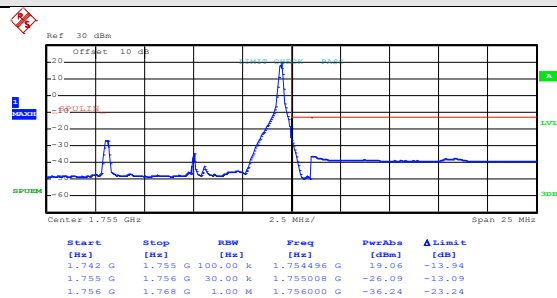
Test Mode:

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



Date: 14.AUG.2016 11:14:04

Lowest channel

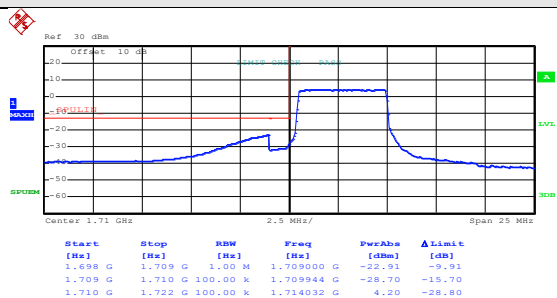


Date: 14.AUG.2016 11:16:29

Highest channel

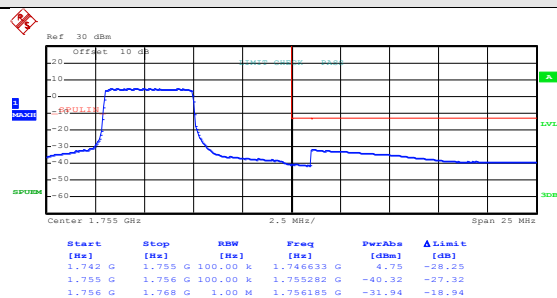
Test Mode:

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



Date: 14.AUG.2016 11:14:32

Lowest channel

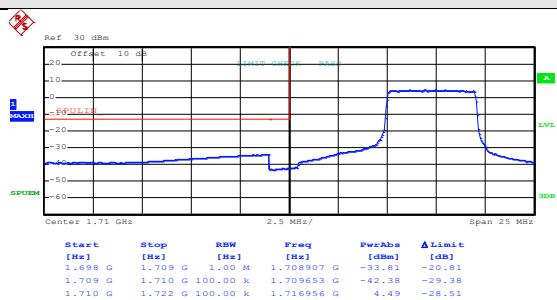


Date: 14.AUG.2016 11:17:06

Highest channel

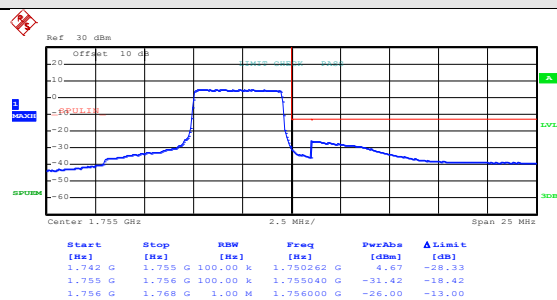
Test Mode:

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



Date: 14.AUG.2016 11:14:52

Lowest channel

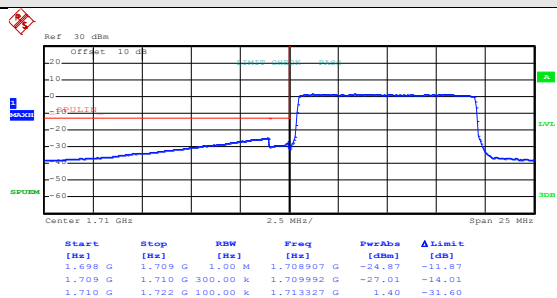


Date: 14.AUG.2016 11:17:27

Highest channel

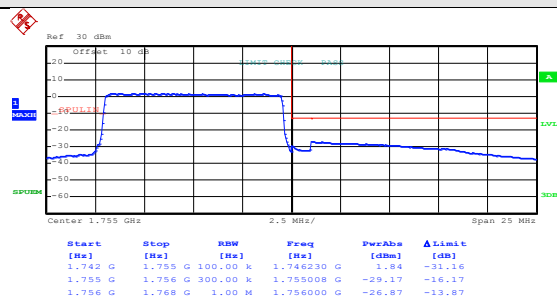
Test Mode:

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



Date: 14.AUG.2016 11:15:16

Lowest channel

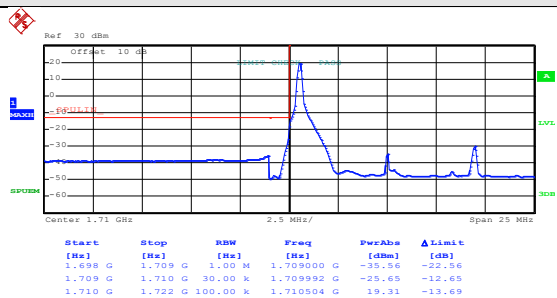


Date: 14.AUG.2016 11:17:56

Highest channel

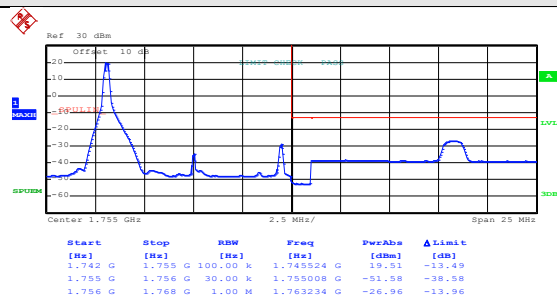
Test Mode:

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



Date: 14.AUG.2016 11:13:37

Lowest channel

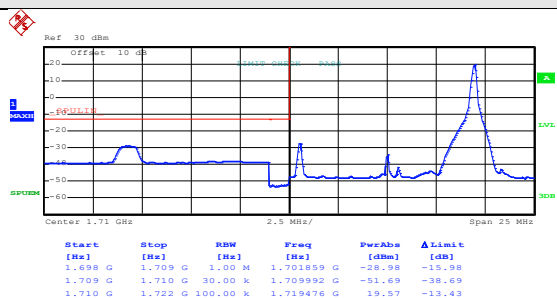


Date: 14.AUG.2016 11:15:56

Highest channel

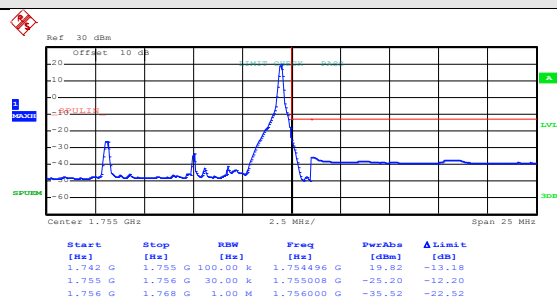
Test Mode:

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



Date: 14.AUG.2016 11:13:56

Lowest channel

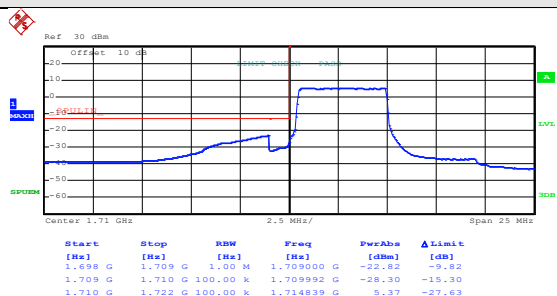


Date: 14.AUG.2016 11:16:21

Highest channel

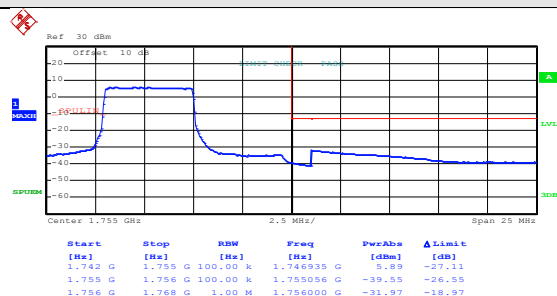
Test Mode:

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



Date: 14.AUG.2016 11:14:24

Lowest channel

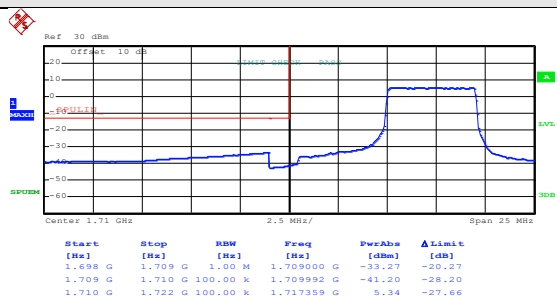


Date: 14.AUG.2016 11:16:58

Highest channel

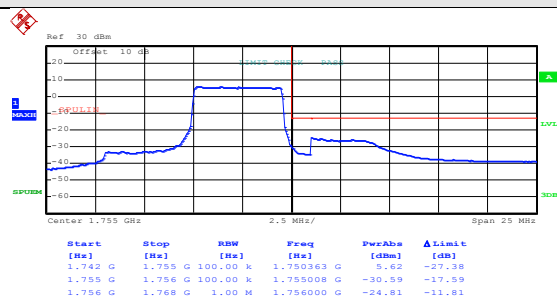
Test Mode:

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



Date: 14.AUG.2016 11:14:44

Lowest channel

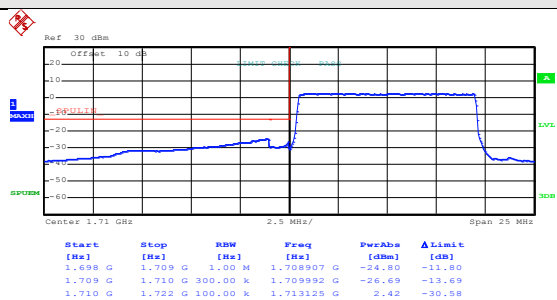


Date: 14.AUG.2016 11:17:19

Highest channel

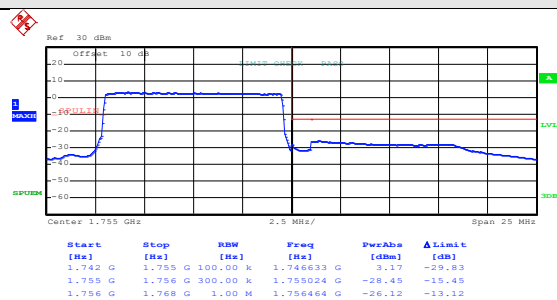
Test Mode:

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



Date: 14.AUG.2016 11:15:09

Lowest channel



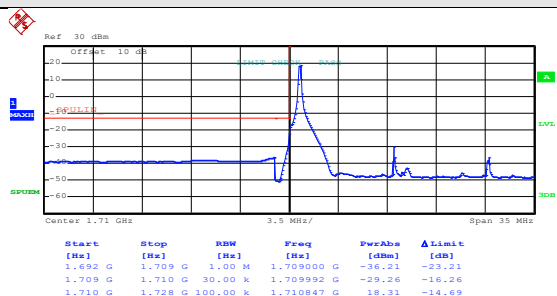
Date: 14.AUG.2016 11:17:50

Highest channel

15MHz:

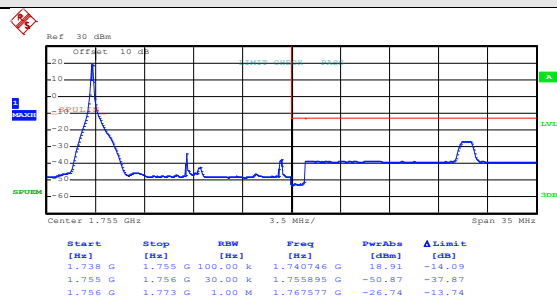
Test Mode:

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



Date: 14.AUG.2016 11:18:51

Lowest channel

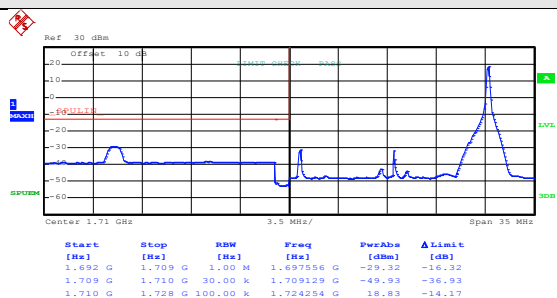


Date: 14.AUG.2016 11:21:22

Highest channel

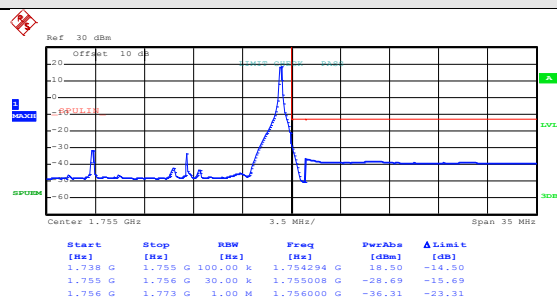
Test Mode:

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



Date: 14.AUG.2016 11:19:21

Lowest channel

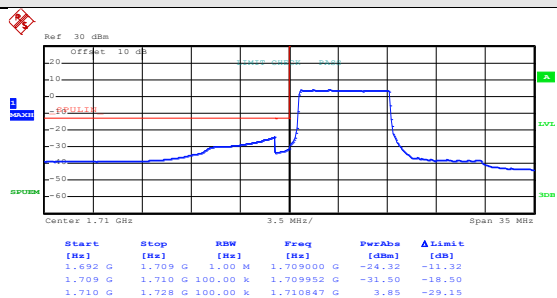


Date: 14.AUG.2016 11:21:40

Highest channel

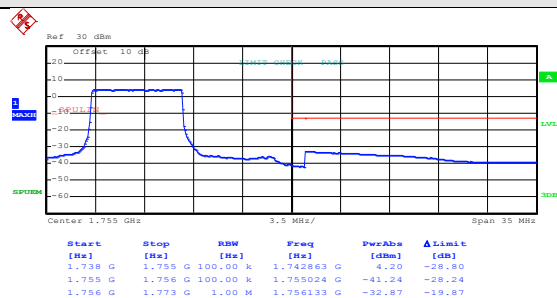
Test Mode:

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



Date: 14.AUG.2016 11:19:49

Lowest channel

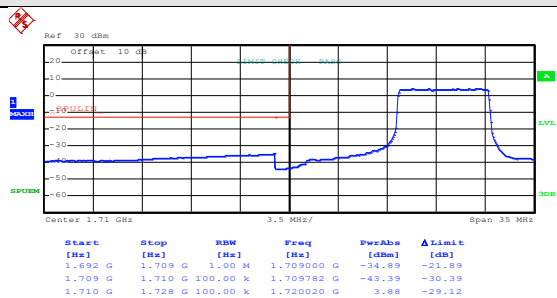


Date: 14.AUG.2016 11:22:06

Highest channel

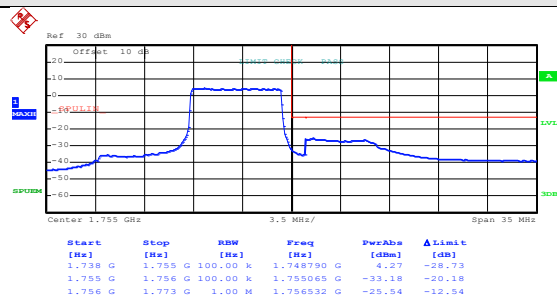
Test Mode:

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



Date: 14.AUG.2016 11:20:11

Lowest channel

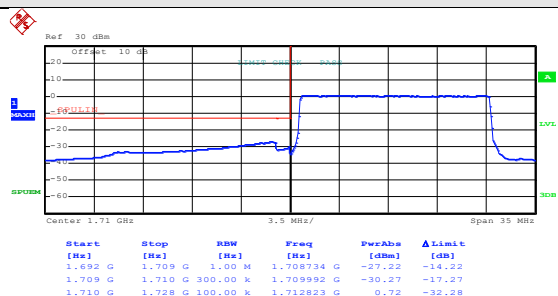


Date: 14.AUG.2016 11:22:27

Highest channel

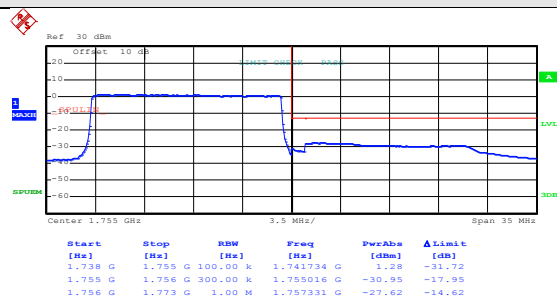
Test Mode:

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



Date: 14.AUG.2016 11:20:37

Lowest channel

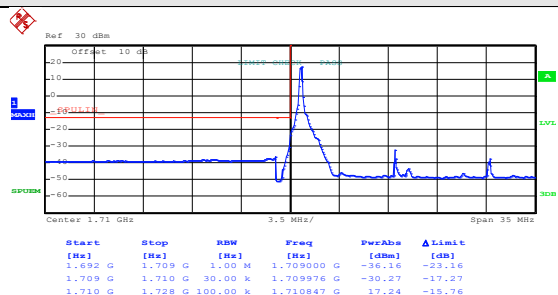


Date: 14.AUG.2016 11:23:10

Highest channel

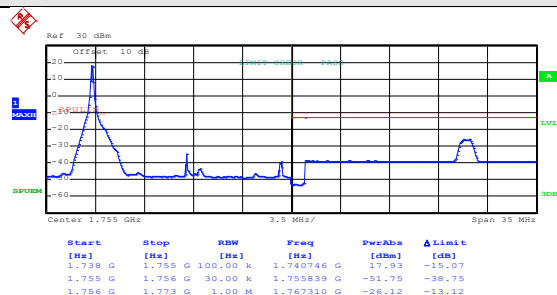
Test Mode:

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



Date: 14.AUG.2016 11:18:58

Lowest channel

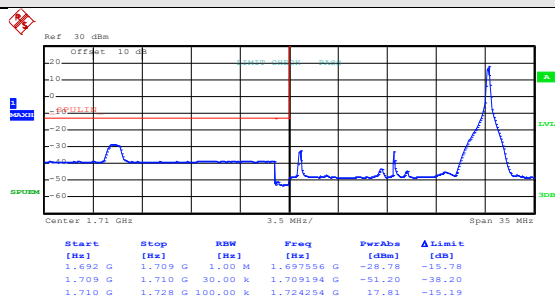


Date: 14.AUG.2016 11:21:30

Highest channel

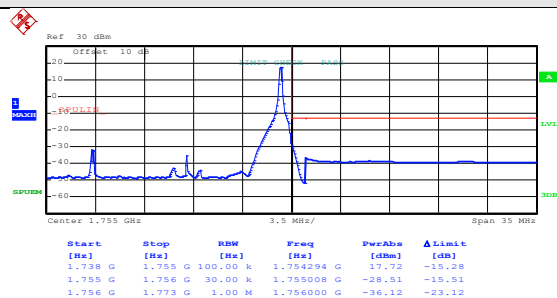
Test Mode:

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



Date: 14.AUG.2016 11:19:31

Lowest channel

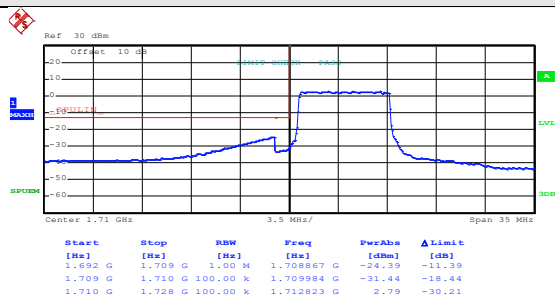


Date: 14.AUG.2016 11:21:48

Highest channel

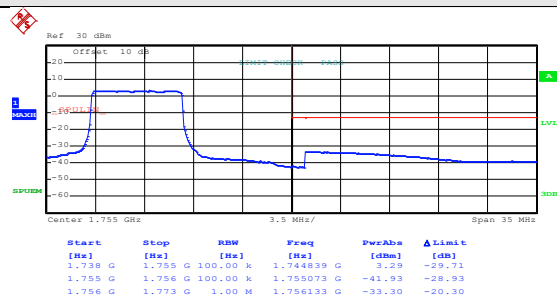
Test Mode:

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



Date: 14.AUG.2016 11:19:57

Lowest channel

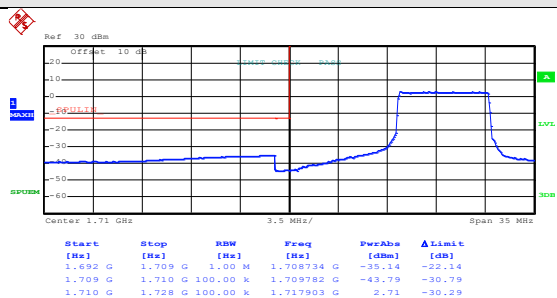


Date: 14.AUG.2016 11:22:14

Highest channel

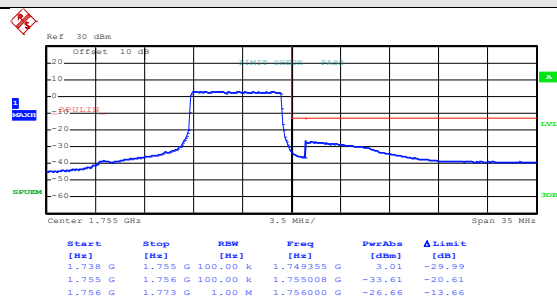
Test Mode:

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



Date: 14.AUG.2016 11:20:20

Lowest channel

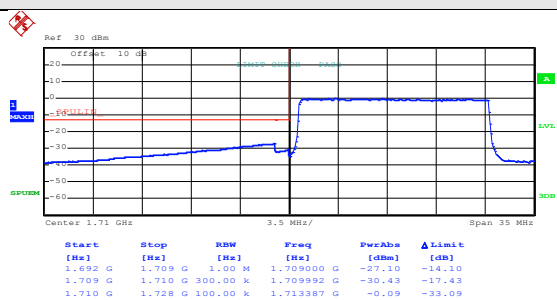


Date: 14.AUG.2016 11:22:35

Highest channel

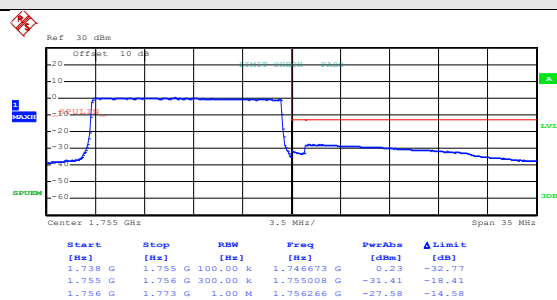
Test Mode:

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



Date: 14.AUG.2016 11:20:43

Lowest channel



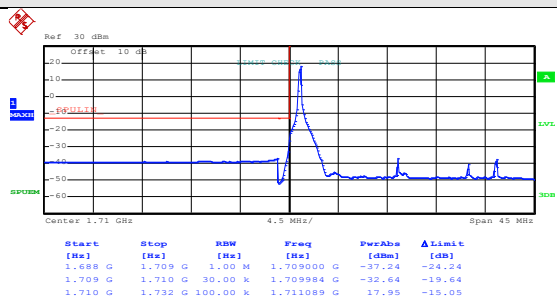
Date: 14.AUG.2016 11:23:17

Highest channel

20MHz:

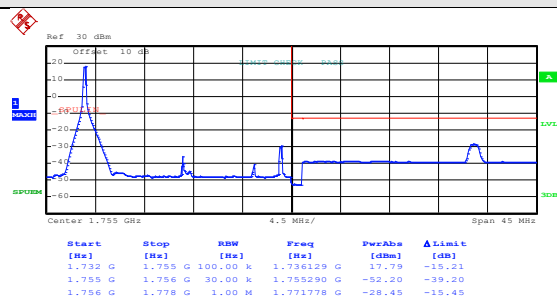
Test Mode:

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



Date: 14.AUG.2016 11:24:07

Lowest channel

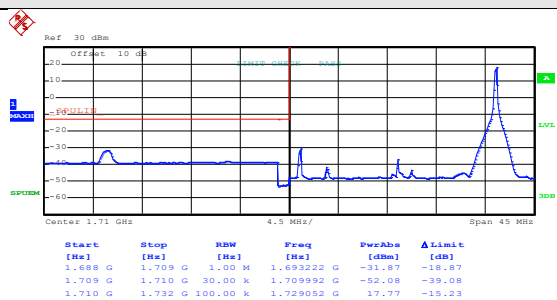


Date: 14.AUG.2016 11:26:25

Highest channel

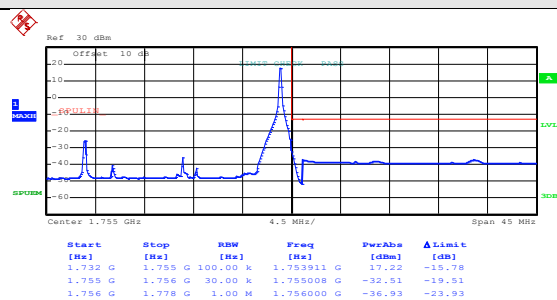
Test Mode:

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



Date: 14.AUG.2016 11:24:29

Lowest channel

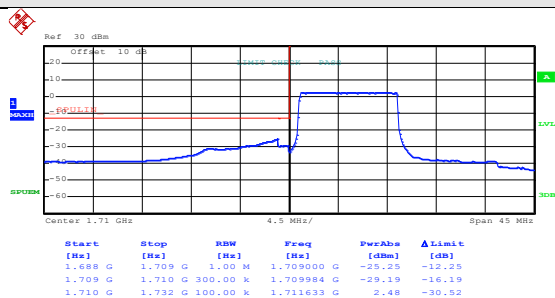


Date: 14.AUG.2016 11:26:45

Highest channel

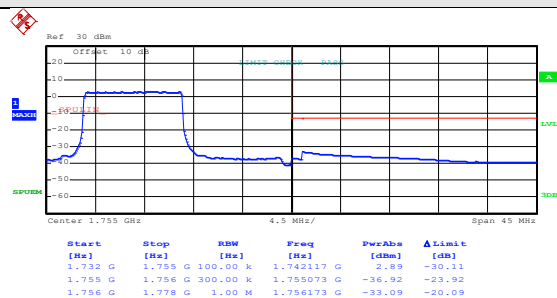
Test Mode:

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



Date: 14.AUG.2016 11:24:58

Lowest channel

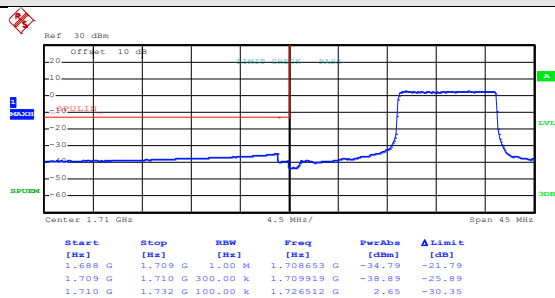


Date: 14.AUG.2016 11:27:18

Highest channel

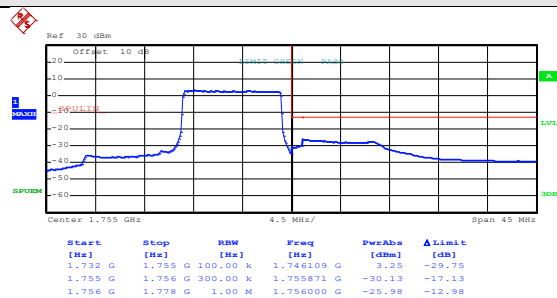
Test Mode:

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



Date: 14.AUG.2016 11:25:19

Lowest channel

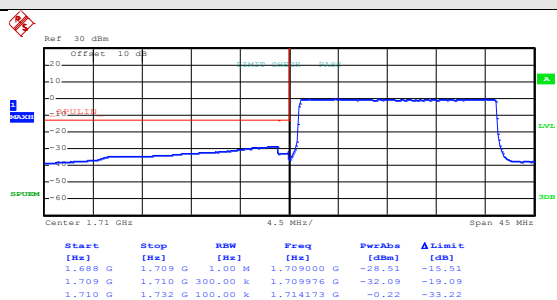


Date: 14.AUG.2016 11:27:40

Highest channel

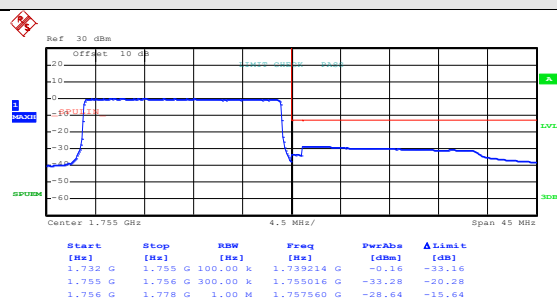
Test Mode:

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



Date: 14.AUG.2016 11:25:52

Lowest channel

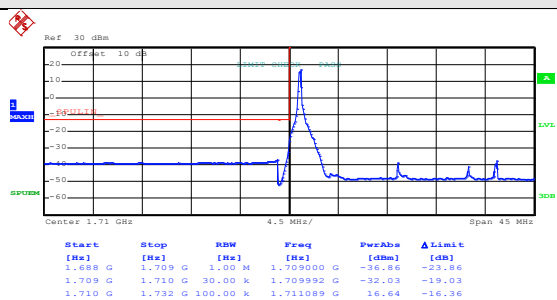


Date: 14.AUG.2016 11:28:03

Highest channel

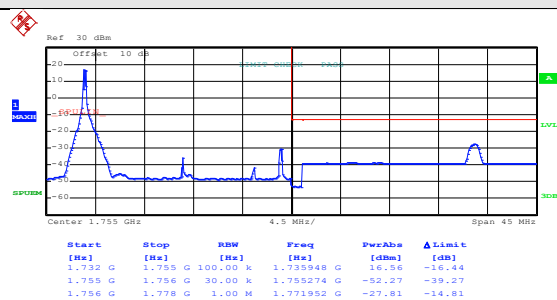
Test Mode:

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



Date: 14.AUG.2016 11:24:18

Lowest channel

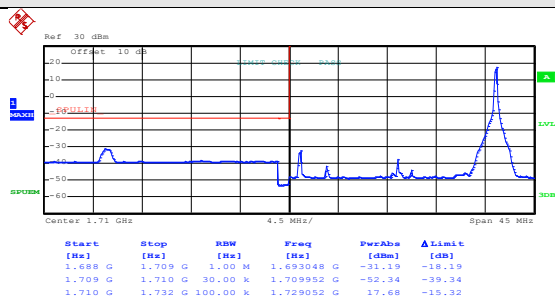


Date: 14.AUG.2016 11:26:32

Highest channel

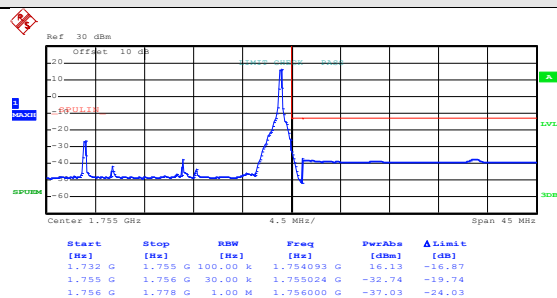
Test Mode:

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



Date: 14.AUG.2016 11:24:37

Lowest channel

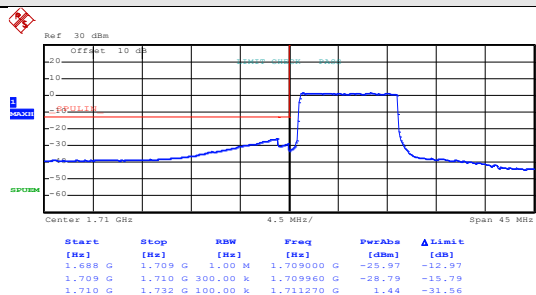


Date: 14.AUG.2016 11:26:55

Highest channel

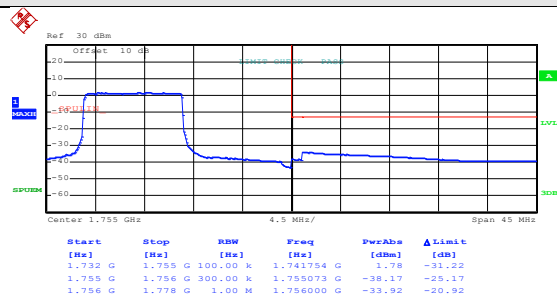
Test Mode:

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



Date: 14.AUG.2016 11:25:06

Lowest channel

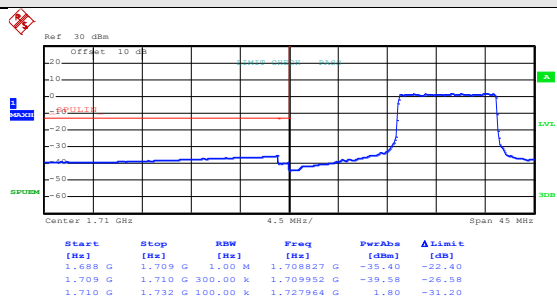


Date: 14.AUG.2016 11:27:27

Highest channel

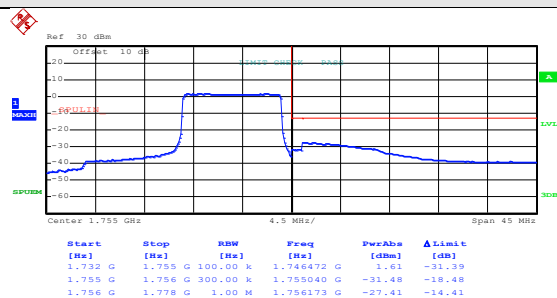
Test Mode:

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



Date: 14.AUG.2016 11:25:33

Lowest channel

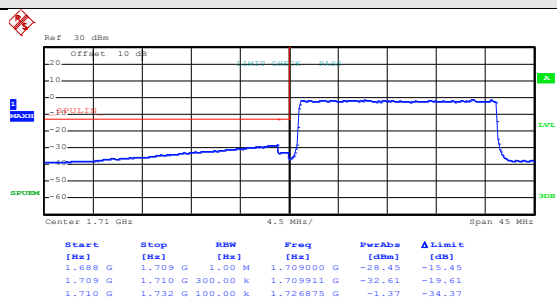


Date: 14.AUG.2016 11:27:49

Highest channel

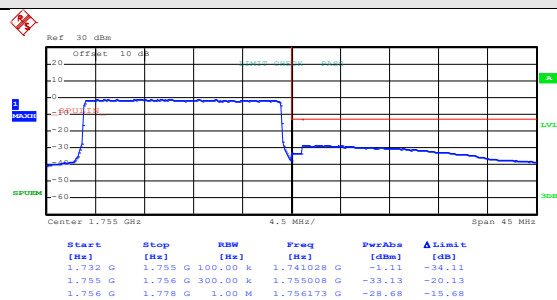
Test Mode:

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



Date: 14.AUG.2016 11:25:58

Lowest channel



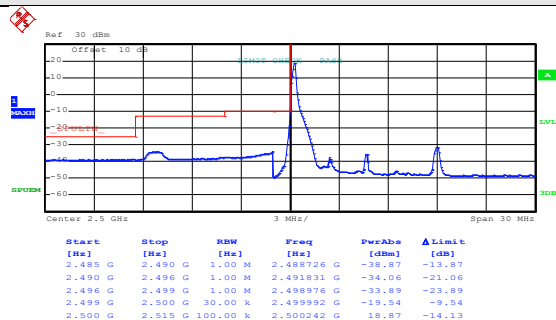
Date: 14.AUG.2016 11:28:09

Highest channel

LTE band 7 part:

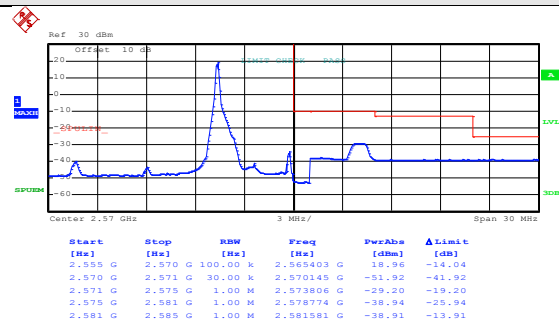
5MHz:

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 0)
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Date: 14.AUG.2016 11:37:53

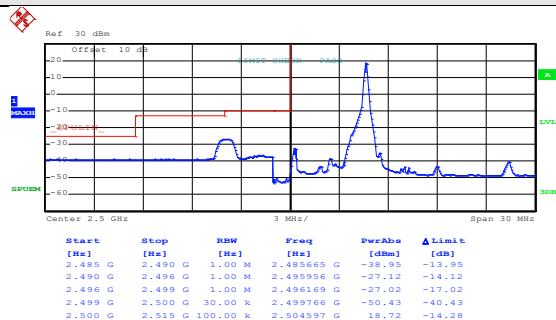
Lowest channel



Date: 14.AUG.2016 11:40:48

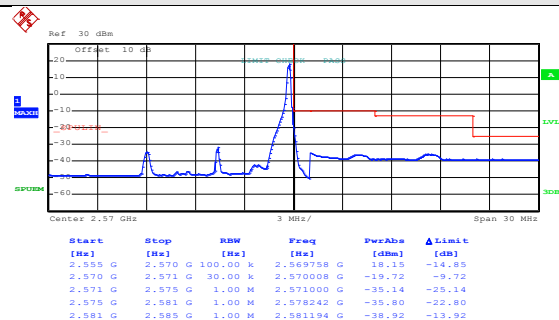
Highest channel

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 24)
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Date: 14.AUG.2016 11:38:21

Lowest channel

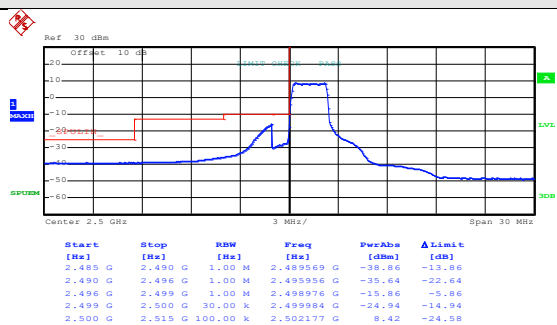


Date: 14.AUG.2016 11:41:07

Highest channel

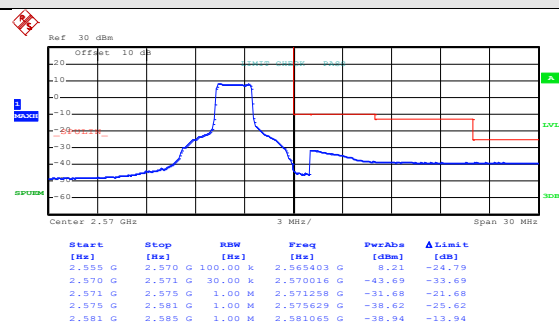
Test Mode:

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



Date: 14.AUG.2016 11:38:43

Lowest channel

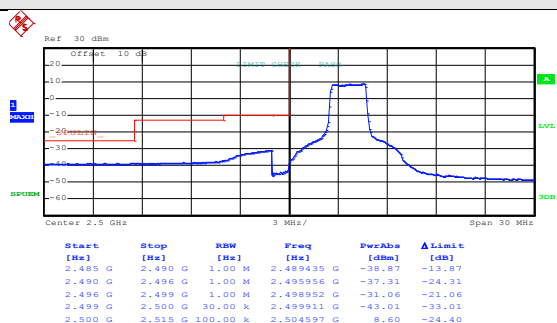


Date: 14.AUG.2016 11:41:31

Highest channel

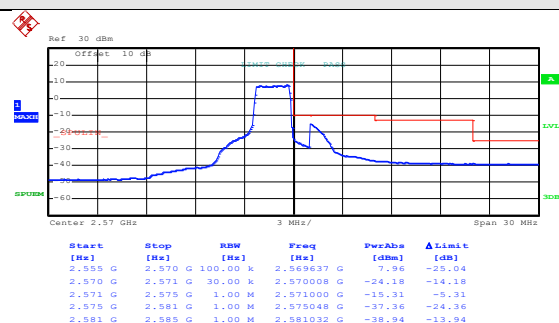
Test Mode:

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



Date: 14.AUG.2016 11:39:07

Lowest channel

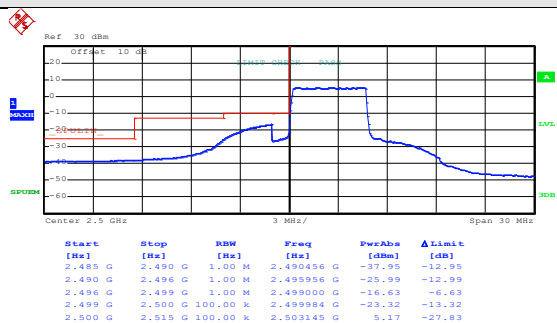


Date: 14.AUG.2016 11:42:06

Highest channel

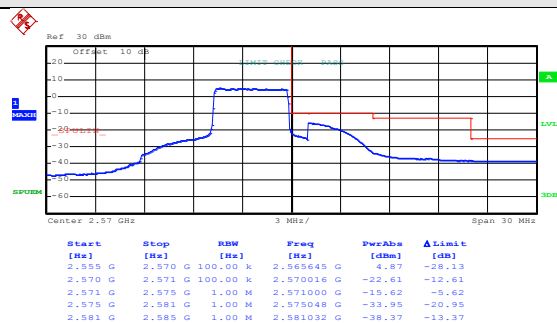
Test Mode:

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



Date: 14.AUG.2016 11:39:41

Lowest channel

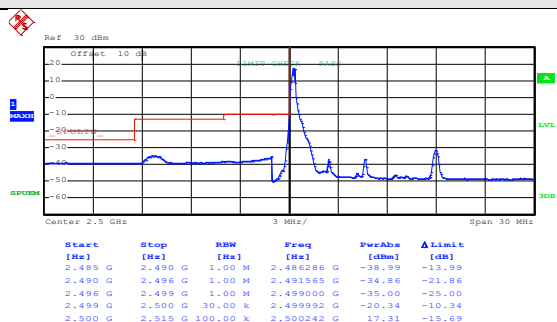


Date: 14.AUG.2016 11:42:48

Highest channel

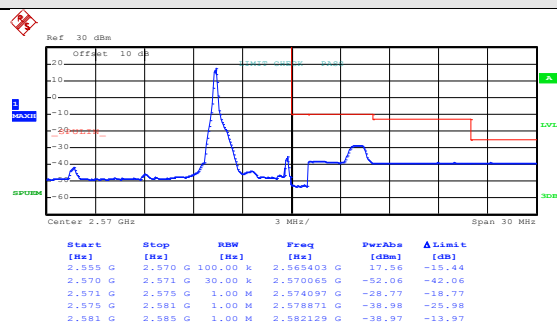
Test Mode:

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



Date: 14.AUG.2016 11:38:03

Lowest channel

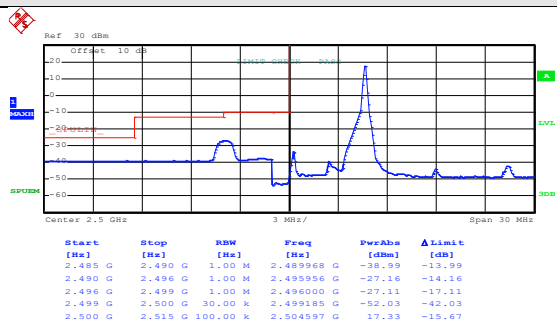


Date: 14.AUG.2016 11:40:55

Highest channel

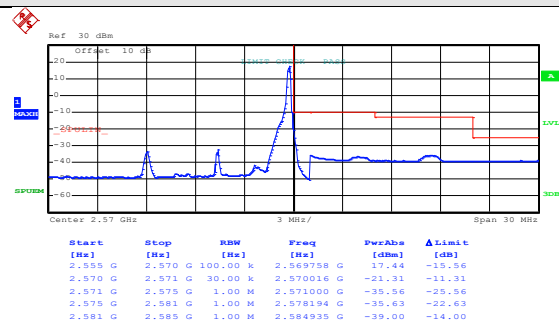
Test Mode:

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



Date: 14.AUG.2016 11:38:29

Lowest channel

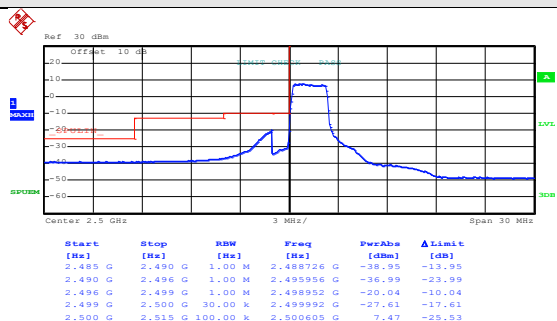


Date: 14.AUG.2016 11:41:15

Highest channel

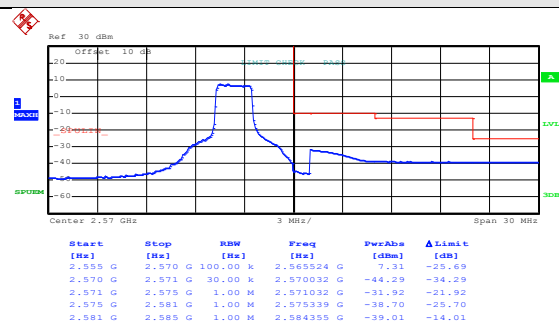
Test Mode:

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



Date: 14.AUG.2016 11:38:51

Lowest channel

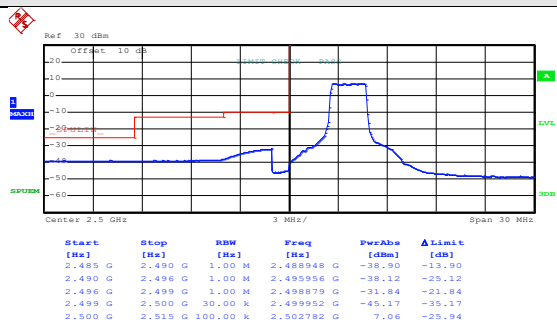


Date: 14.AUG.2016 11:41:39

Highest channel

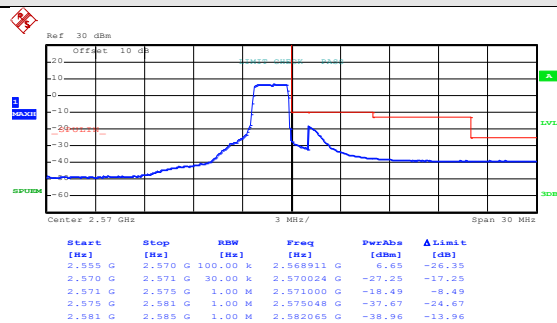
Test Mode:

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



Date: 14.AUG.2016 11:39:19

Lowest channel

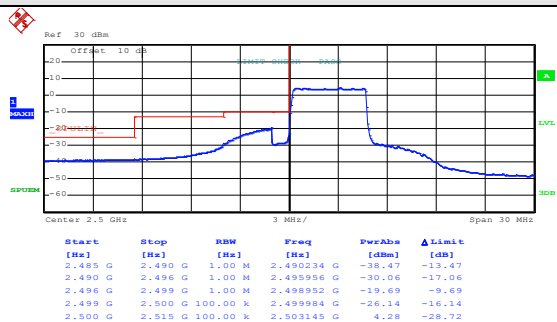


Date: 14.AUG.2016 11:42:17

Highest channel

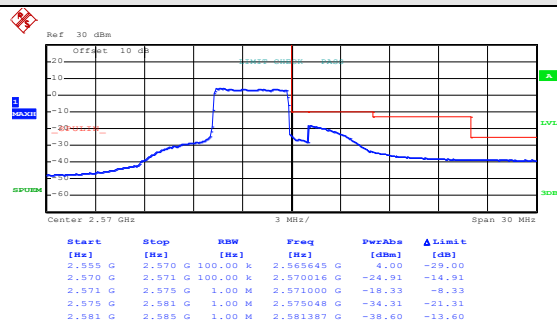
Test Mode:

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



Date: 14.AUG.2016 11:39:49

Lowest channel



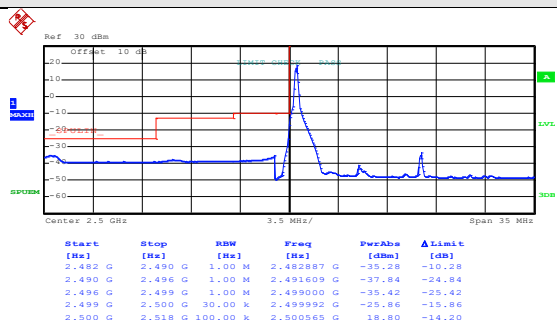
Date: 14.AUG.2016 11:42:55

Highest channel

10MHz:

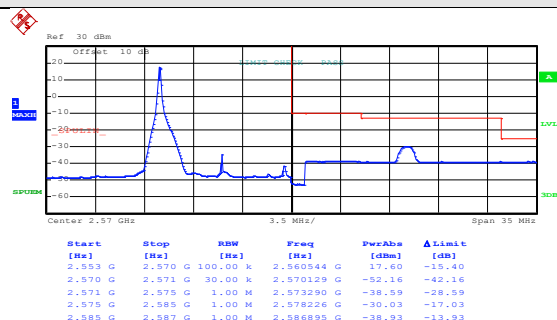
Test Mode:

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



Date: 14.AUG.2016 11:44:17

Lowest channel

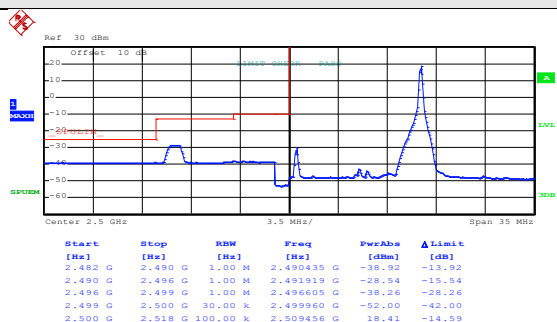


Date: 14.AUG.2016 11:47:09

Highest channel

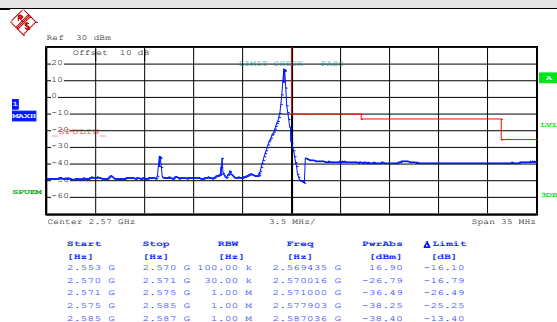
Test Mode:

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



Date: 14.AUG.2016 11:44:38

Lowest channel

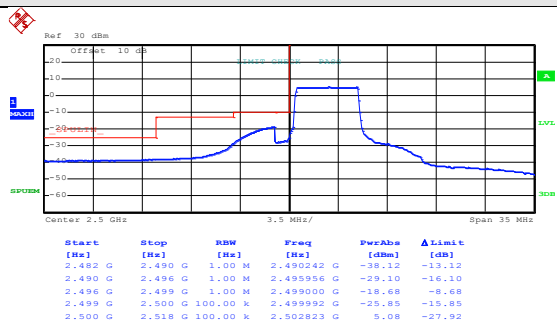


Date: 14.AUG.2016 11:47:30

Highest channel

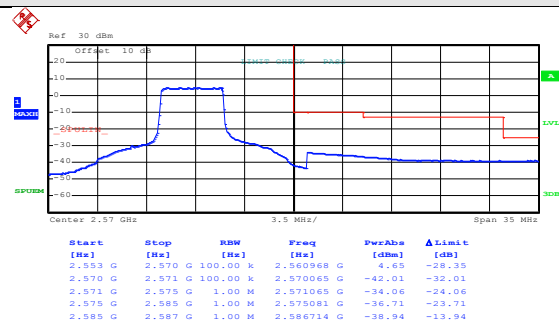
Test Mode:

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



Date: 14.AUG.2016 11:45:21

Lowest channel

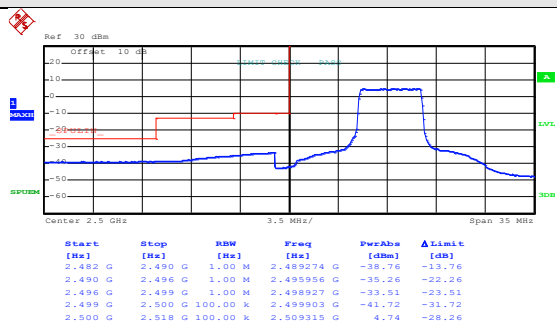


Date: 14.AUG.2016 11:48:02

Highest channel

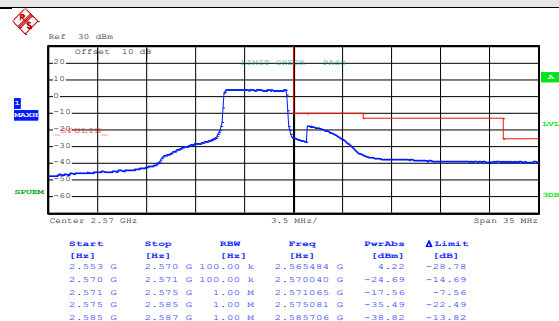
Test Mode:

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



Date: 14.AUG.2016 11:45:43

Lowest channel

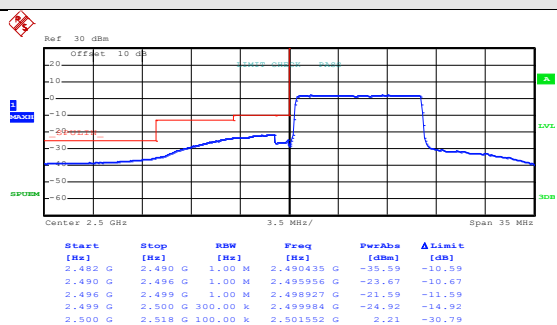


Date: 14.AUG.2016 11:48:24

Highest channel

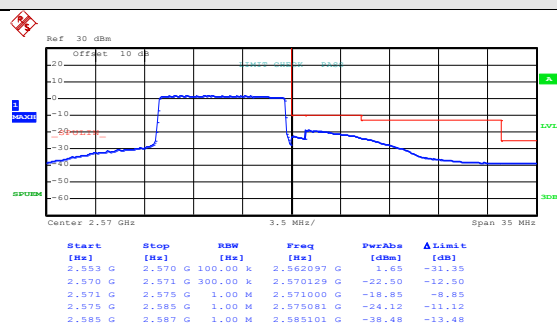
Test Mode:

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



Date: 14.AUG.2016 11:46:22

Lowest channel

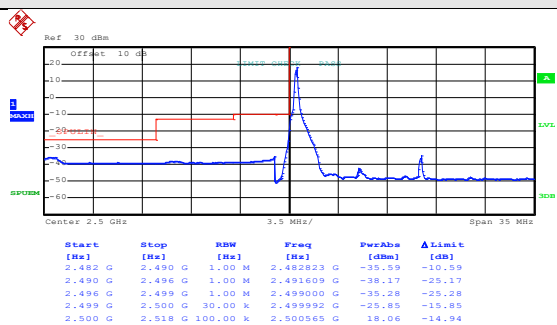


Date: 14.AUG.2016 11:48:57

Highest channel

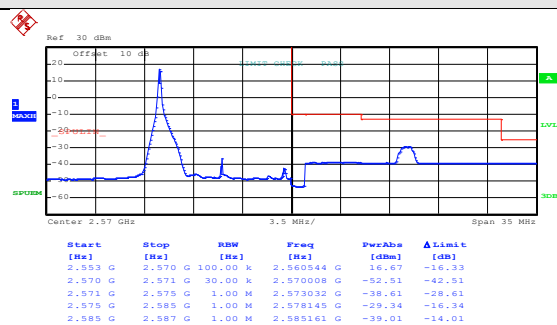
Test Mode:

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



Date: 14.AUG.2016 11:44:26

Lowest channel

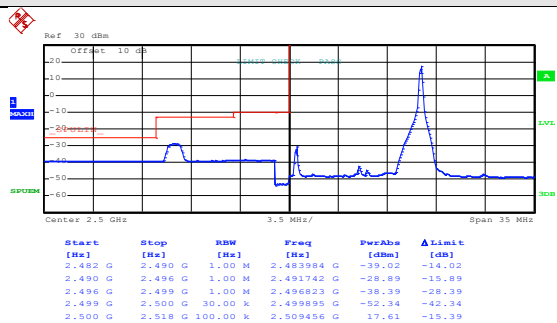


Date: 14.AUG.2016 11:47:19

Highest channel

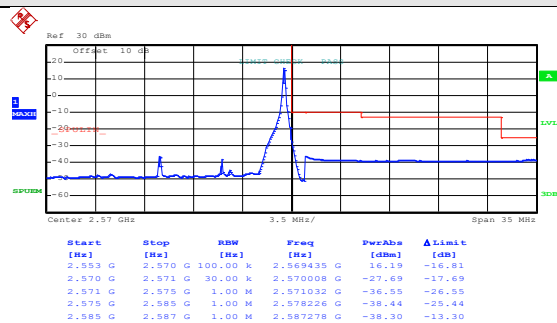
Test Mode:

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



Date: 14.AUG.2016 11:44:48

Lowest channel

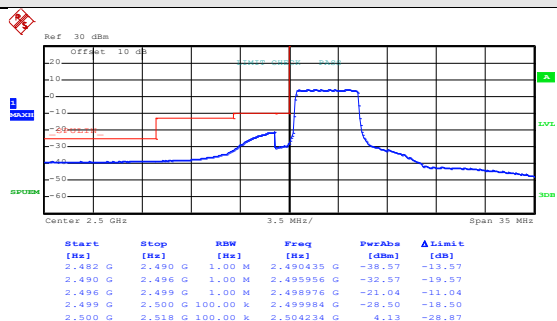


Date: 14.AUG.2016 11:47:39

Highest channel

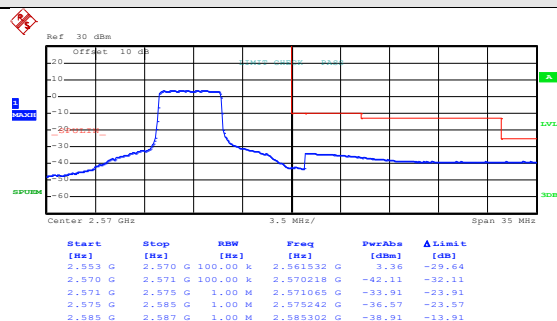
Test Mode:

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



Date: 14.AUG.2016 11:45:30

Lowest channel

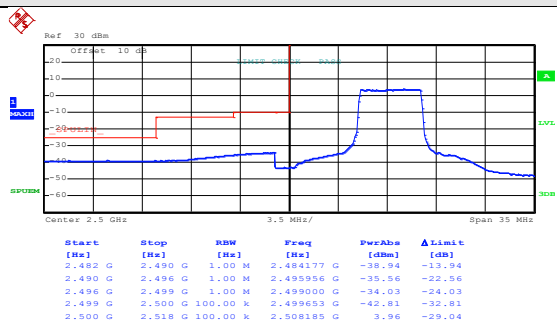


Date: 14.AUG.2016 11:48:10

Highest channel

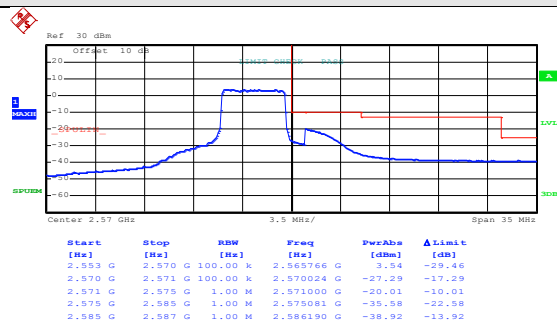
Test Mode:

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



Date: 14.AUG.2016 11:45:52

Lowest channel

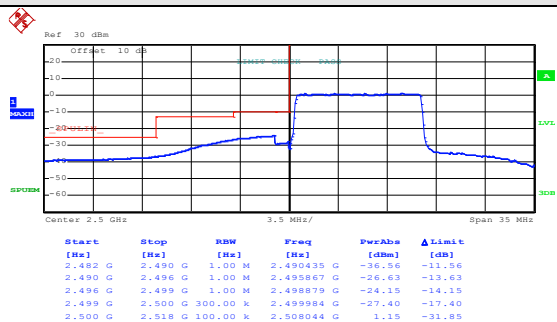


Date: 14.AUG.2016 11:48:34

Highest channel

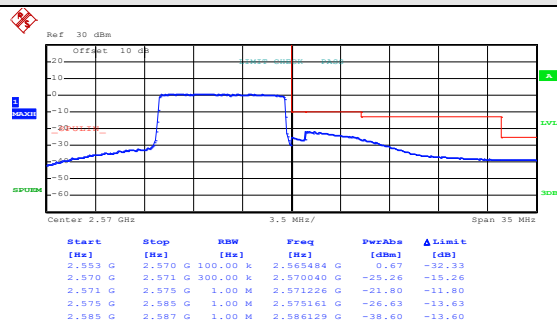
Test Mode:

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



Date: 14.AUG.2016 11:46:31

Lowest channel



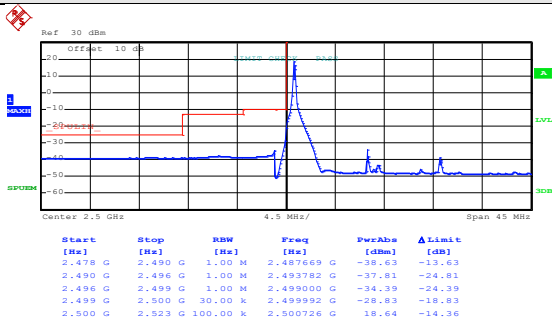
Date: 14.AUG.2016 11:49:04

Highest channel

15MHz:

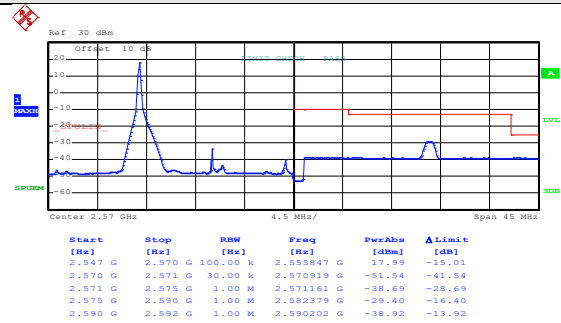
Test Mode:

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



Date: 14.AUG.2016 11:50:18

Lowest channel

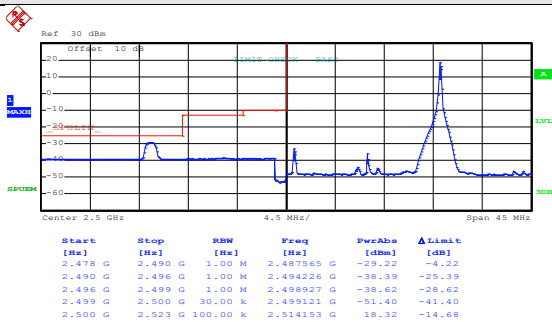


Date: 14.AUG.2016 11:53:04

Highest channel

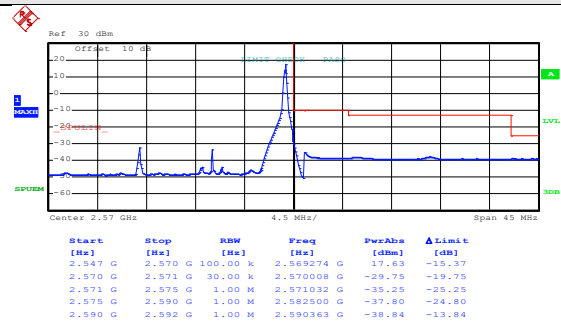
Test Mode:

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



Date: 14.AUG.2016 11:50:51

Lowest channel

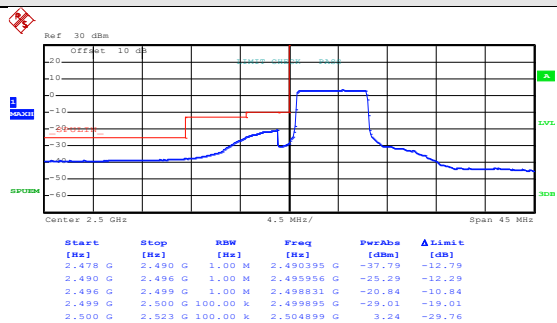


Date: 14.AUG.2016 11:53:27

Highest channel

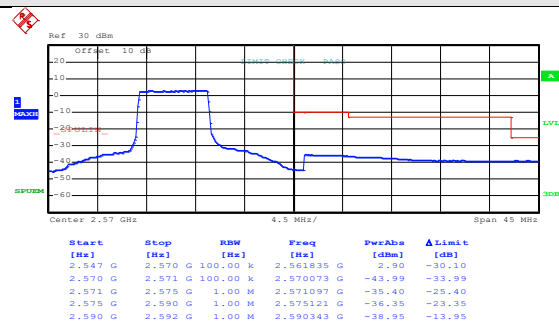
Test Mode:

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



Date: 14.AUG.2016 11:51:24

Lowest channel

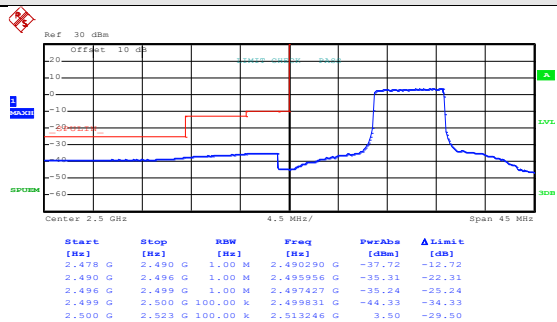


Date: 14.AUG.2016 11:54:00

Highest channel

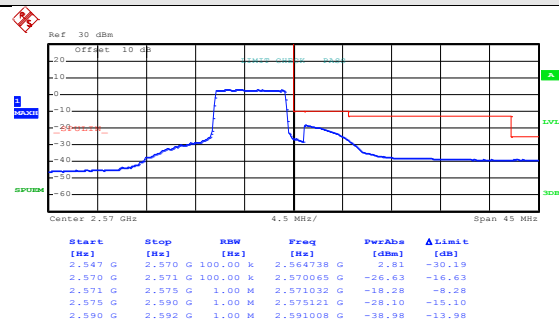
Test Mode:

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



Date: 14.AUG.2016 11:51:43

Lowest channel

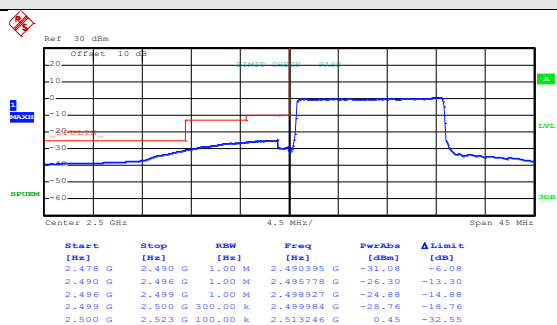


Date: 14.AUG.2016 11:54:22

Highest channel

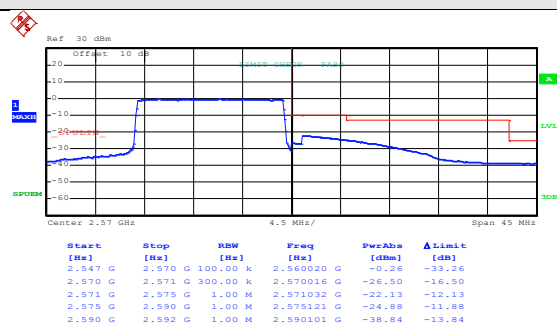
Test Mode:

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



Date: 14.AUG.2016 11:52:10

Lowest channel

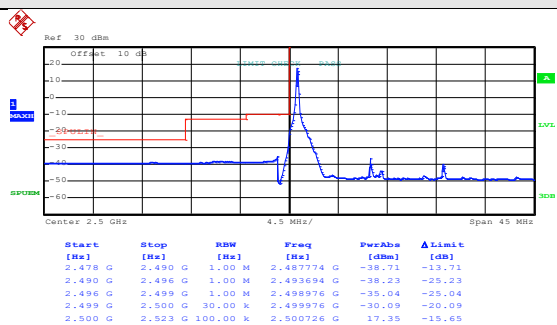


Date: 14.AUG.2016 11:54:50

Highest channel

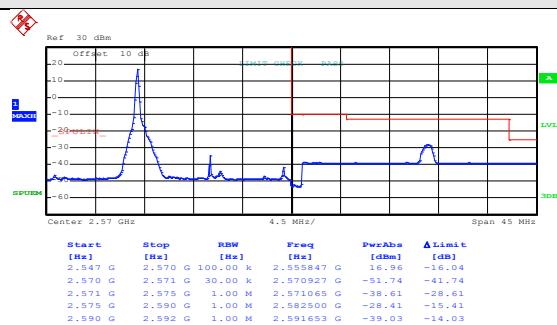
Test Mode:

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



Date: 14.AUG.2016 11:50:26

Lowest channel

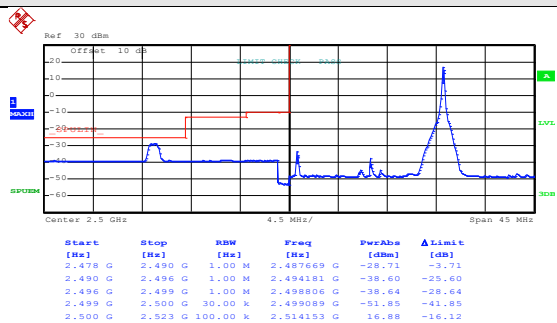


Date: 14.AUG.2016 11:53:11

Highest channel

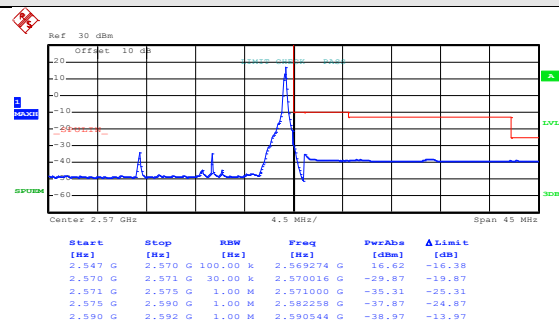
Test Mode:

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



Date: 14.AUG.2016 11:51:00

Lowest channel

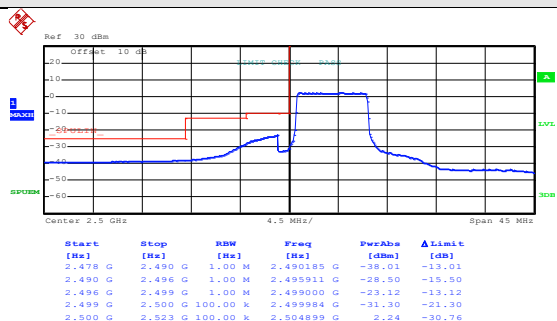


Date: 14.AUG.2016 11:53:35

Highest channel

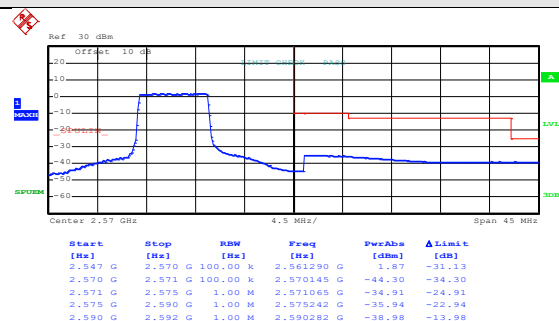
Test Mode:

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



Date: 14.AUG.2016 11:51:31

Lowest channel

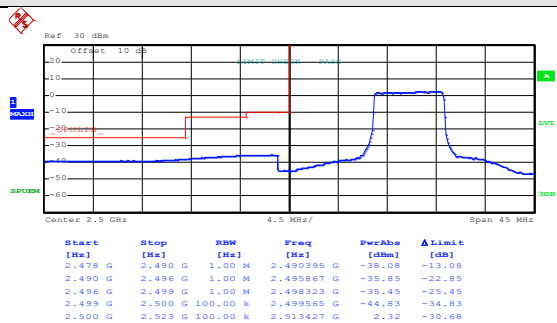


Date: 14.AUG.2016 11:54:08

Highest channel

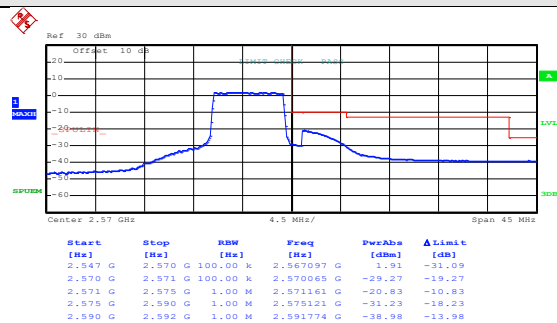
Test Mode:

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



Date: 14.AUG.2016 11:51:52

Lowest channel

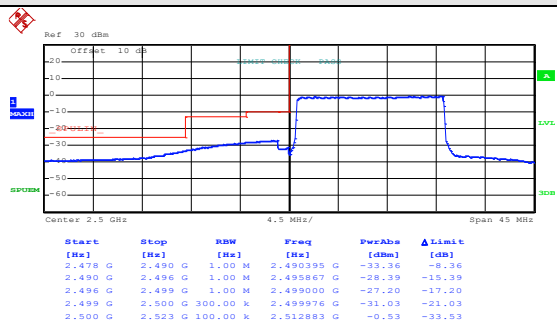


Date: 14.AUG.2016 11:54:31

Highest channel

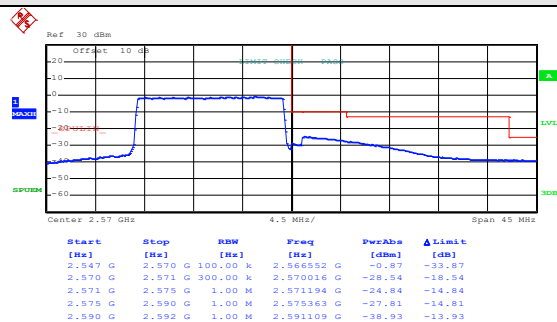
Test Mode:

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



Date: 14.AUG.2016 11:52:18

Lowest channel



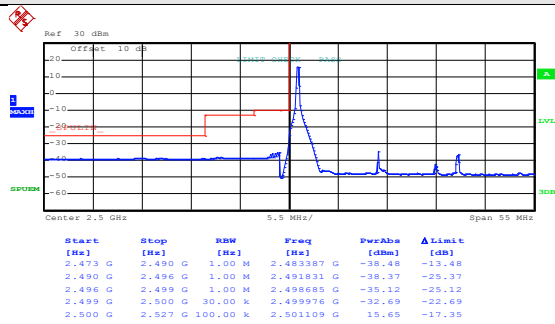
Date: 14.AUG.2016 11:54:57

Highest channel

20MHz:

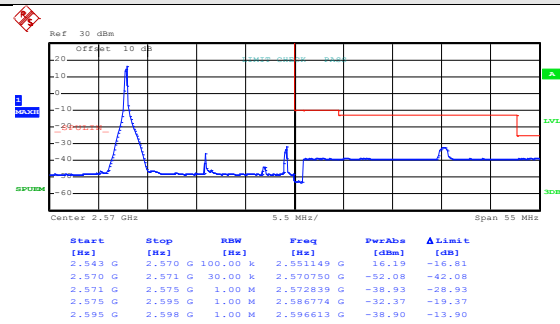
Test Mode:

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



Date: 14.AUG.2016 11:56:13

Lowest channel

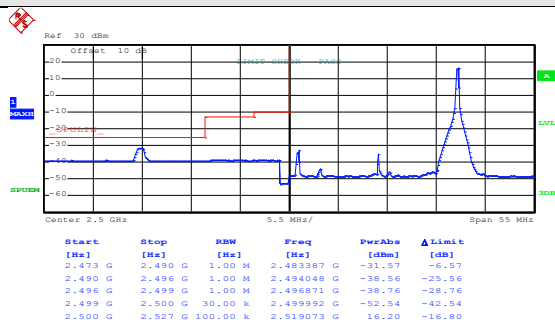


Date: 14.AUG.2016 11:58:49

Highest channel

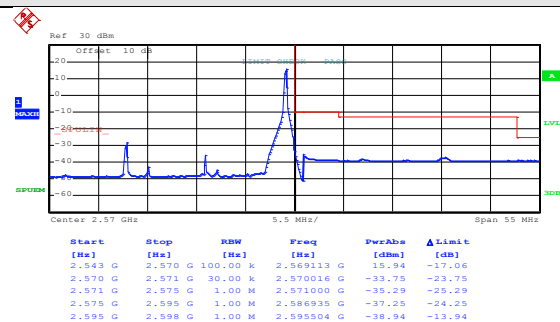
Test Mode:

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



Date: 14.AUG.2016 11:56:32

Lowest channel

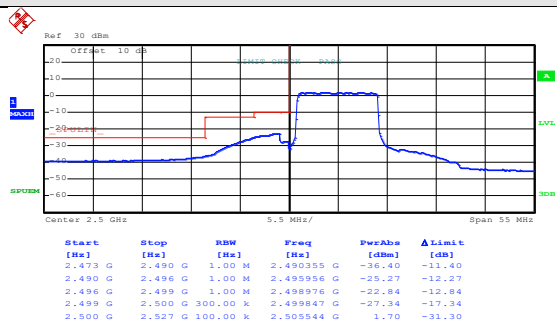


Date: 14.AUG.2016 11:59:07

Highest channel

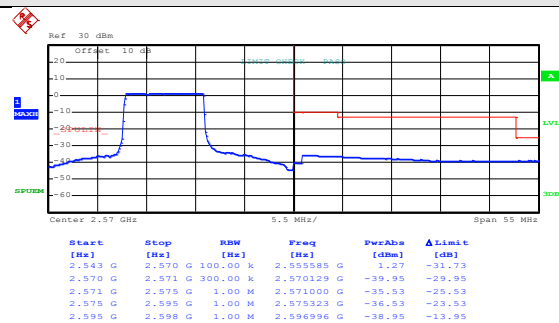
Test Mode:

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



Date: 14.AUG.2016 11:57:09

Lowest channel

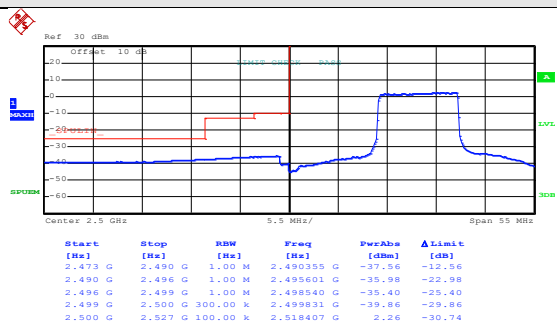


Date: 14.AUG.2016 11:59:43

Highest channel

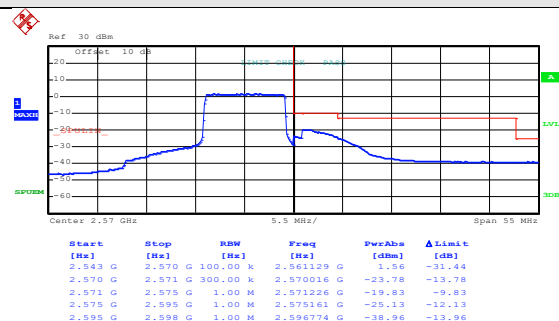
Test Mode:

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



Date: 14.AUG.2016 11:57:29

Lowest channel

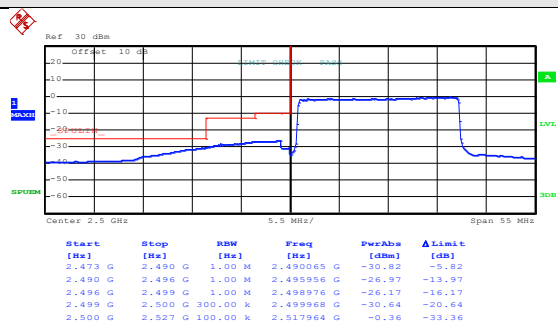


Date: 14.AUG.2016 12:00:05

Highest channel

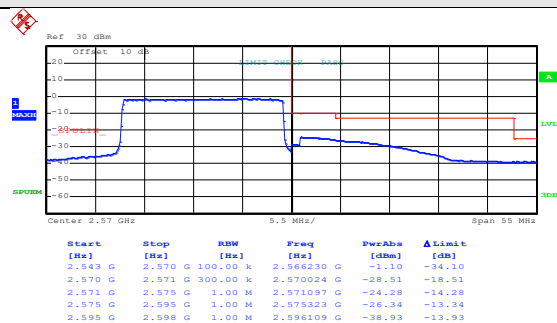
Test Mode:

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



Date: 14.AUG.2016 11:58:00

Lowest channel

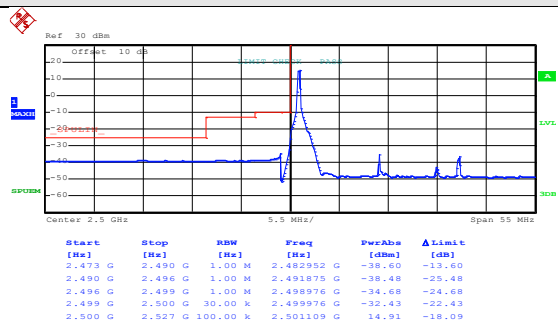


Date: 14.AUG.2016 12:00:28

Highest channel

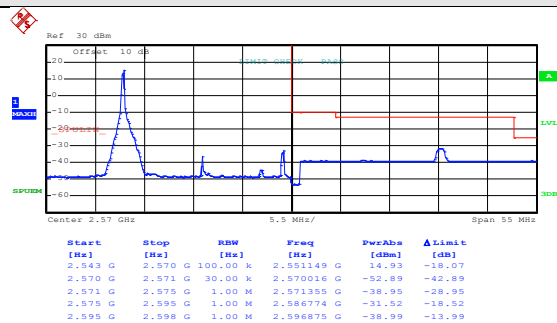
Test Mode:

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



Date: 14.AUG.2016 11:56:21

Lowest channel

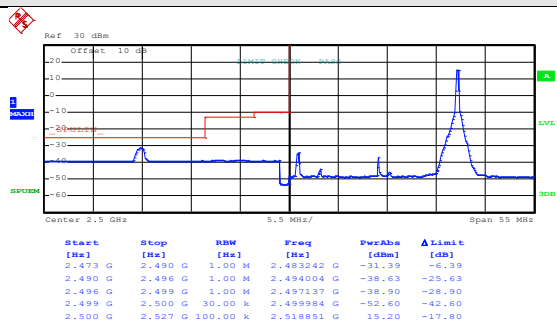


Date: 14.AUG.2016 11:58:57

Highest channel

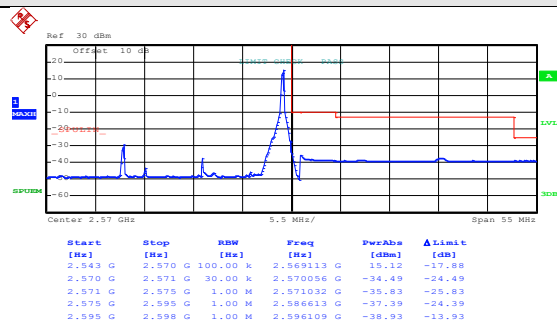
Test Mode:

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



Date: 14.AUG.2016 11:56:42

Lowest channel

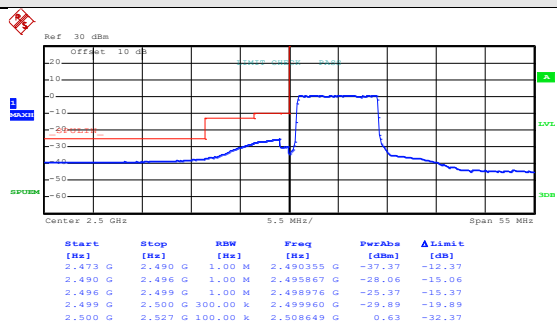


Date: 14.AUG.2016 11:59:16

Highest channel

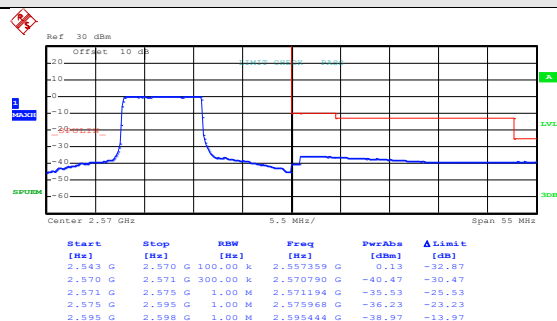
Test Mode:

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



Date: 14.AUG.2016 11:57:17

Lowest channel

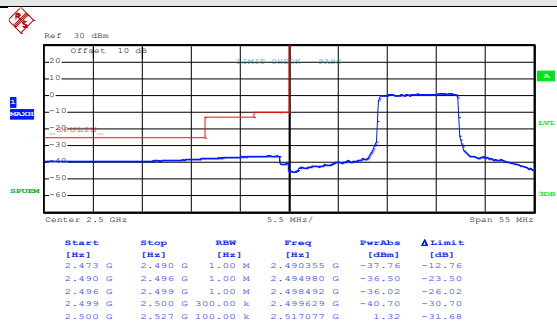


Date: 14.AUG.2016 11:59:51

Highest channel

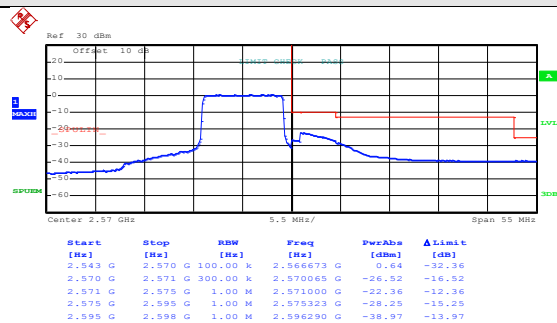
Test Mode:

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



Date: 14.AUG.2016 11:57:41

Lowest channel

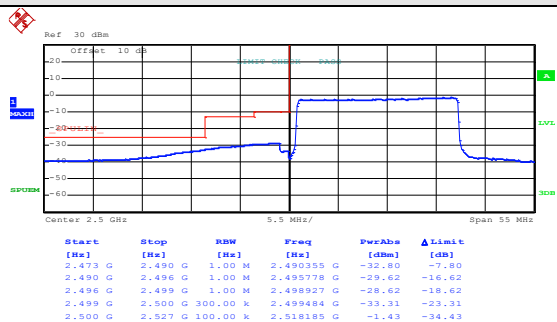


Date: 14.AUG.2016 12:00:15

Highest channel

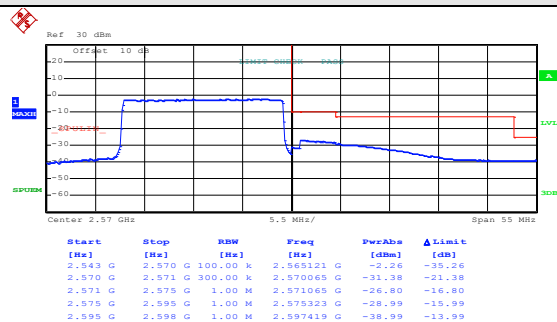
Test Mode:

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



Date: 14.AUG.2016 11:58:09

Lowest channel



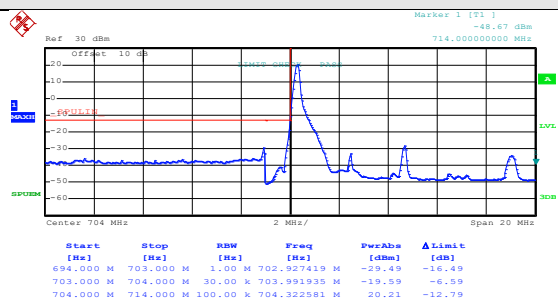
Date: 14.AUG.2016 12:00:35

Highest channel

LTE band 17 part: 5MHz:

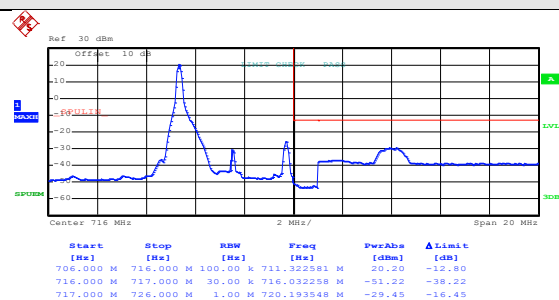
Test Mode:

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



Date: 14.AUG.2016 09:40:00

Lowest channel

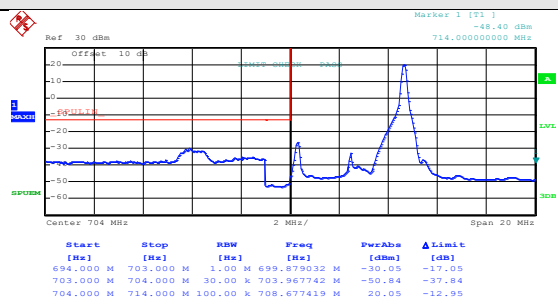


Date: 14.AUG.2016 09:42:37

Highest channel

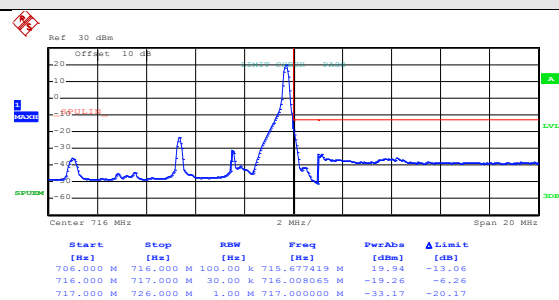
Test Mode:

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



Date: 14.AUG.2016 09:40:21

Lowest channel

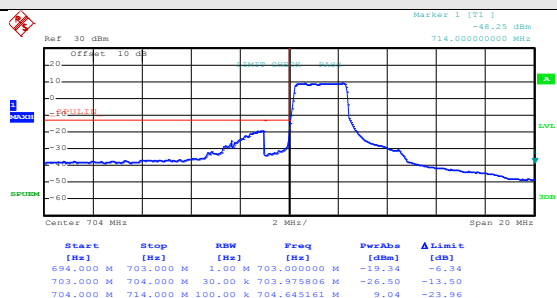


Date: 14.AUG.2016 09:42:56

Highest channel

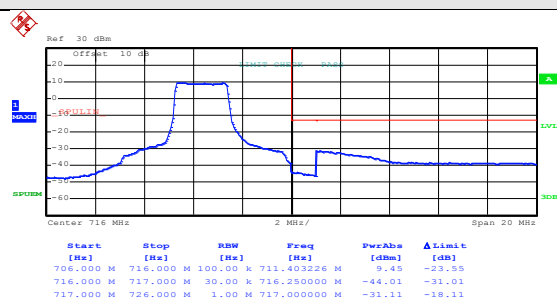
Test Mode:

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



Date: 14.AUG.2016 09:40:50

Lowest channel

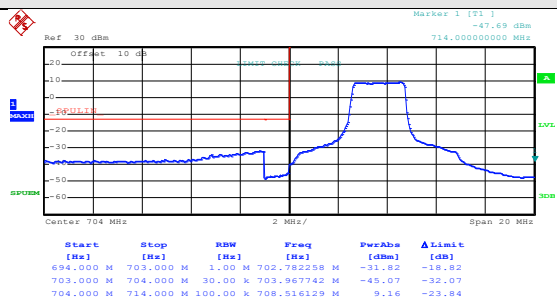


Date: 14.AUG.2016 09:43:24

Highest channel

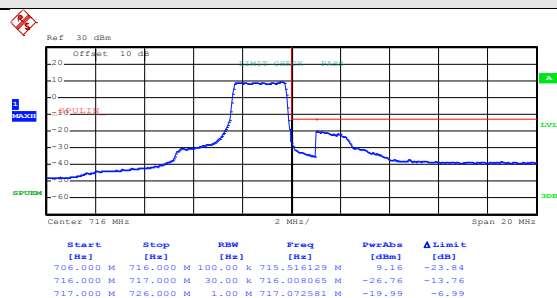
Test Mode:

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



Date: 14.AUG.2016 09:41:13

Lowest channel

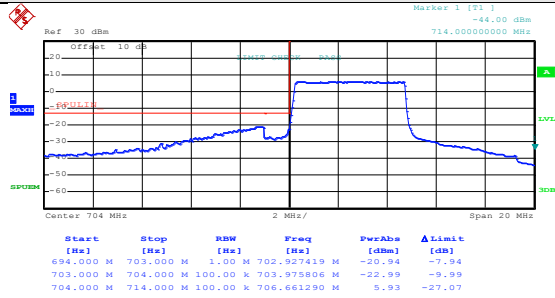


Date: 14.AUG.2016 09:43:45

Highest channel

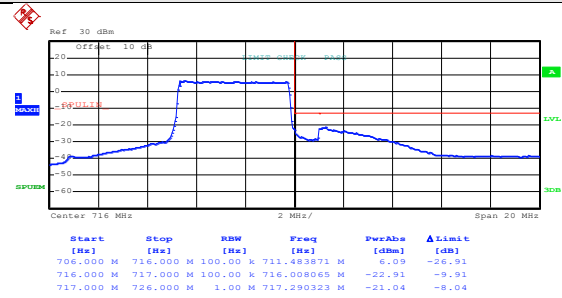
Test Mode:

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



Date: 14.AUG.2016 09:41:52

Lowest channel

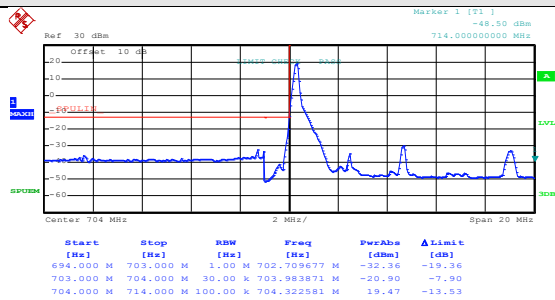


Date: 14.AUG.2016 09:44:11

Highest channel

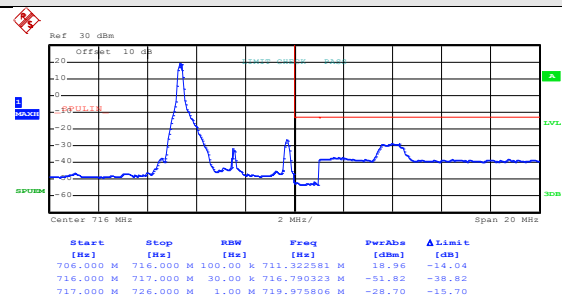
Test Mode:

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



Date: 14.AUG.2016 09:40:09

Lowest channel

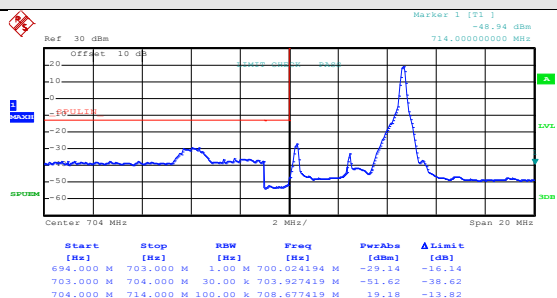


Date: 14.AUG.2016 09:42:46

Highest channel

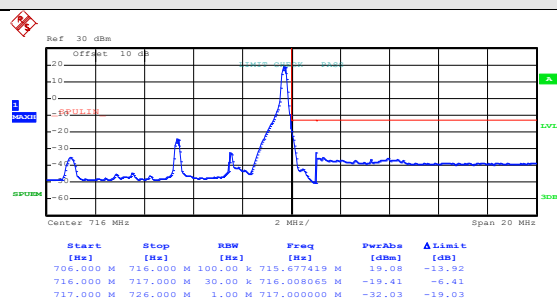
Test Mode:

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



Date: 14.AUG.2016 09:40:30

Lowest channel

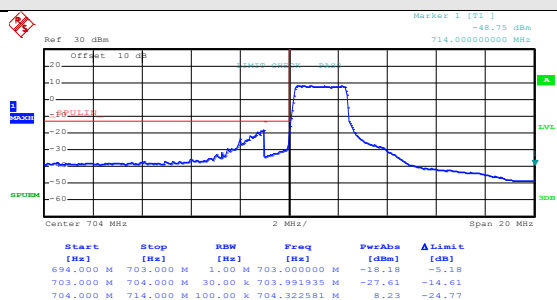


Date: 14.AUG.2016 09:43:07

Highest channel

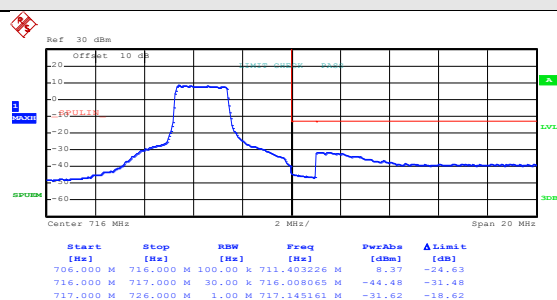
Test Mode:

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



Date: 14.AUG.2016 09:40:59

Lowest channel

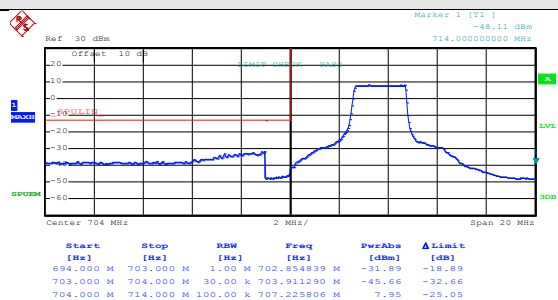


Date: 14.AUG.2016 09:43:32

Highest channel

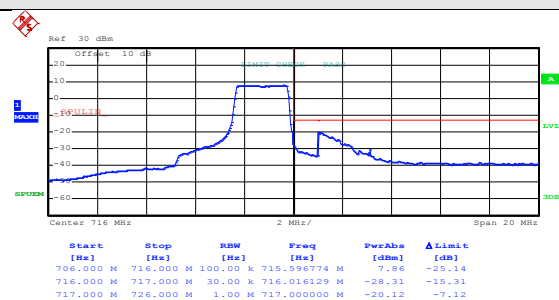
Test Mode:

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



Date: 14.AUG.2016 09:41:24

Lowest channel

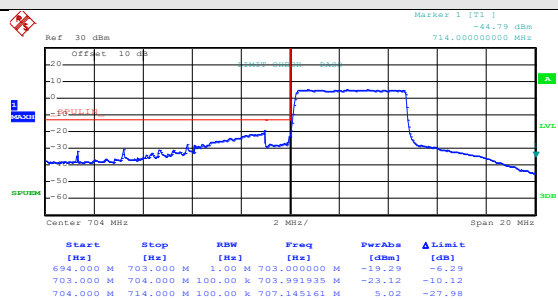


Date: 14.AUG.2016 09:43:55

Highest channel

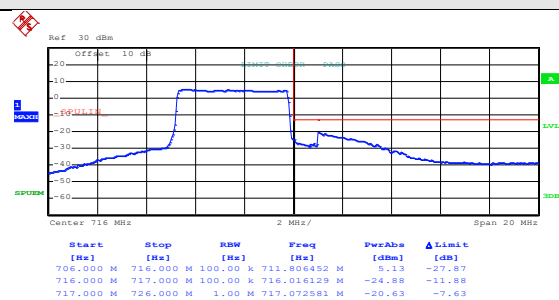
Test Mode:

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



Date: 14.AUG.2016 09:41:59

Lowest channel

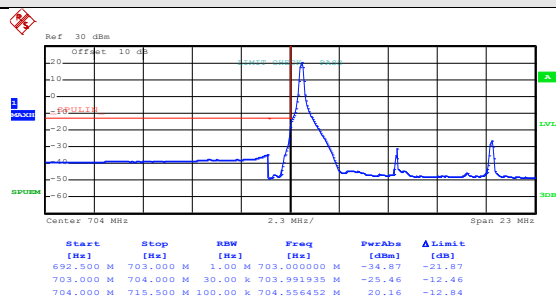


Date: 14.AUG.2016 09:44:19

Highest channel

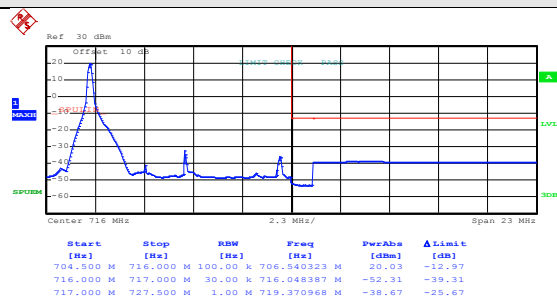
10MHz:

Test Mode:	LTE band 17(QPSK RB Size 1 & RB Offset 0)
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Date: 14.AUG.2016 09:45:38

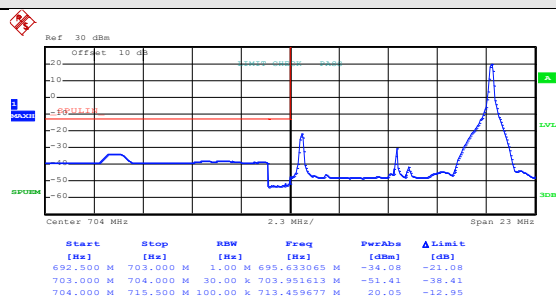
Lowest channel



Date: 14.AUG.2016 09:47:57

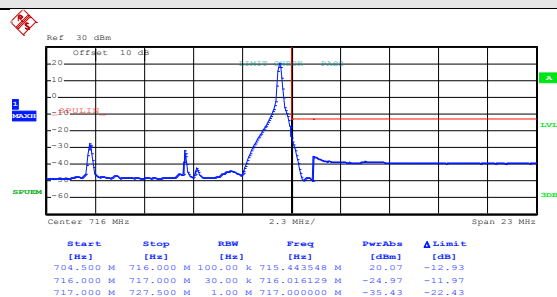
Highest channel

Test Mode:	LTE band 17(QPSK RB Size 1 & RB Offset 49)
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Date: 14.AUG.2016 09:45:57

Lowest channel

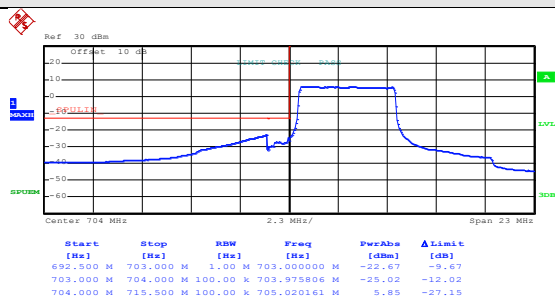


Date: 14.AUG.2016 09:48:15

Highest channel

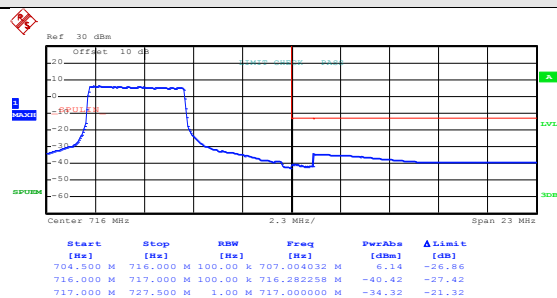
Test Mode:

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



Date: 14.AUG.2016 09:46:27

Lowest channel

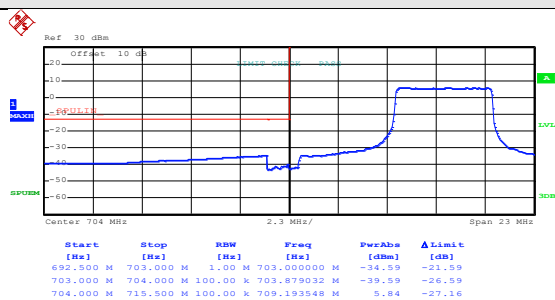


Date: 14.AUG.2016 09:48:45

Highest channel

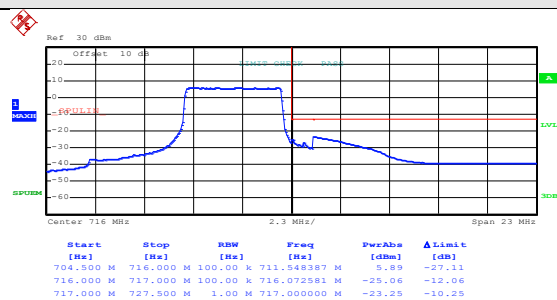
Test Mode:

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



Date: 14.AUG.2016 09:46:48

Lowest channel

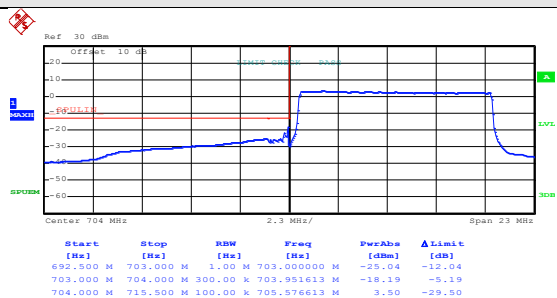


Date: 14.AUG.2016 09:49:06

Highest channel

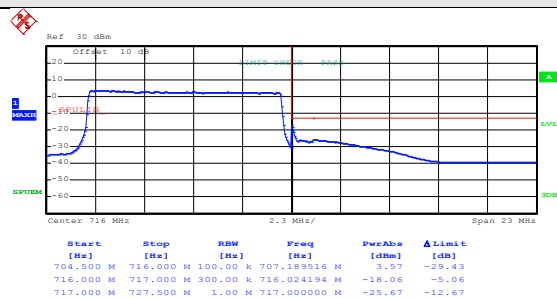
Test Mode:

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



Date: 14.AUG.2016 09:47:12

Lowest channel

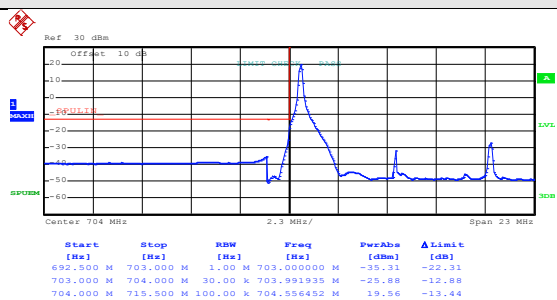


Date: 14.AUG.2016 09:49:38

Highest channel

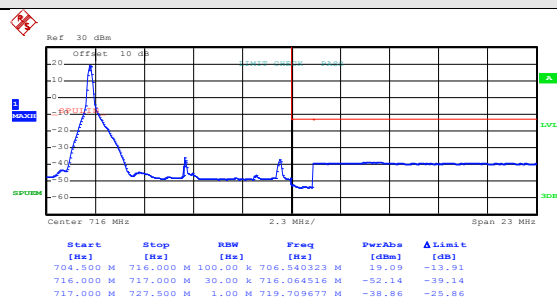
Test Mode:

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



Date: 14.AUG.2016 09:45:46

Lowest channel

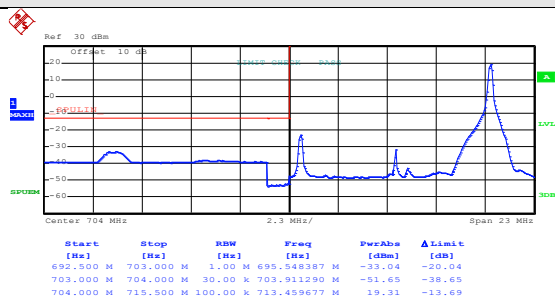


Date: 14.AUG.2016 09:48:04

Highest channel

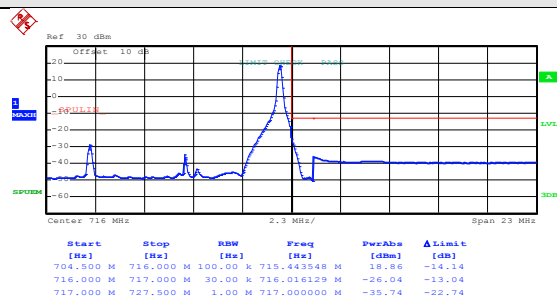
Test Mode:

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



Date: 14.AUG.2016 09:46:07

Lowest channel

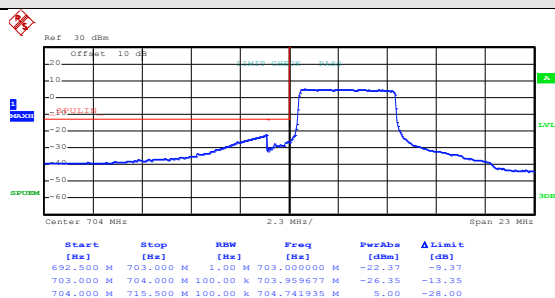


Date: 14.AUG.2016 09:48:24

Highest channel

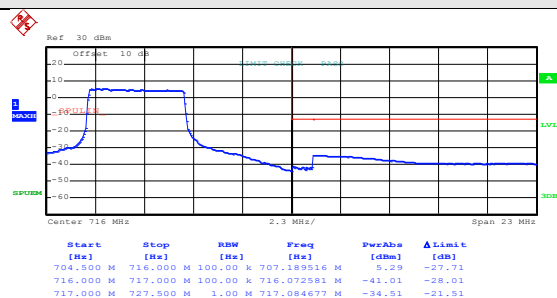
Test Mode:

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



Date: 14.AUG.2016 09:46:35

Lowest channel

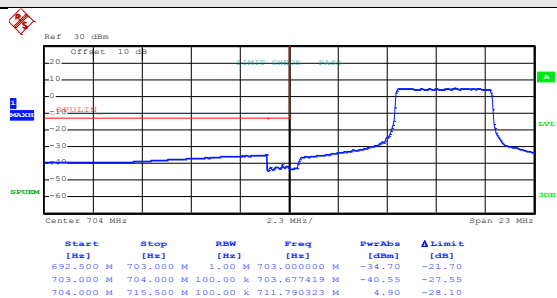


Date: 14.AUG.2016 09:48:53

Highest channel

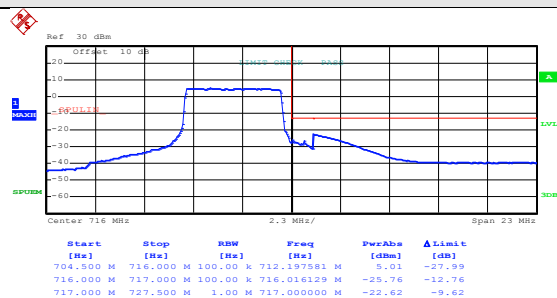
Test Mode:

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



Date: 14.AUG.2016 09:46:56

Lowest channel

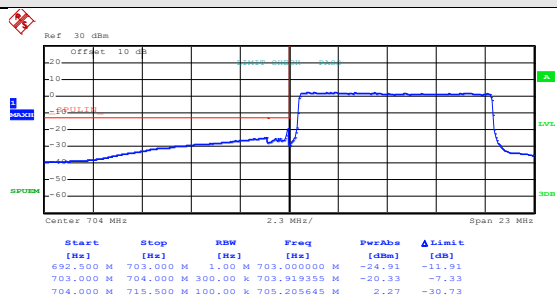


Date: 14.AUG.2016 09:49:17

Highest channel

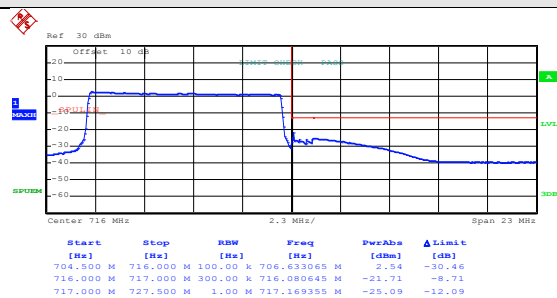
Test Mode:

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



Date: 14.AUG.2016 09:47:20

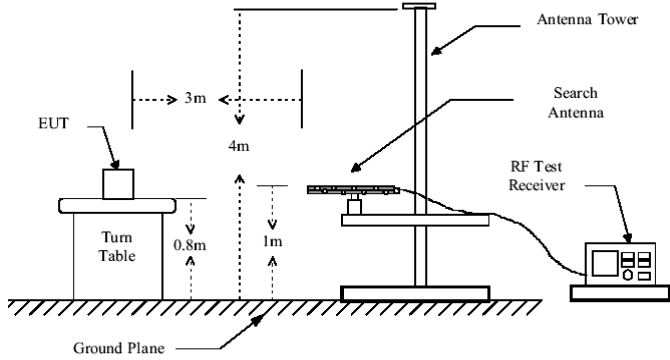
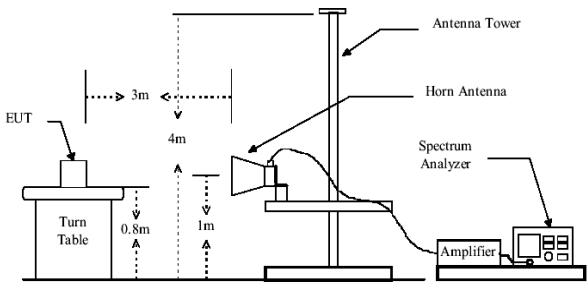
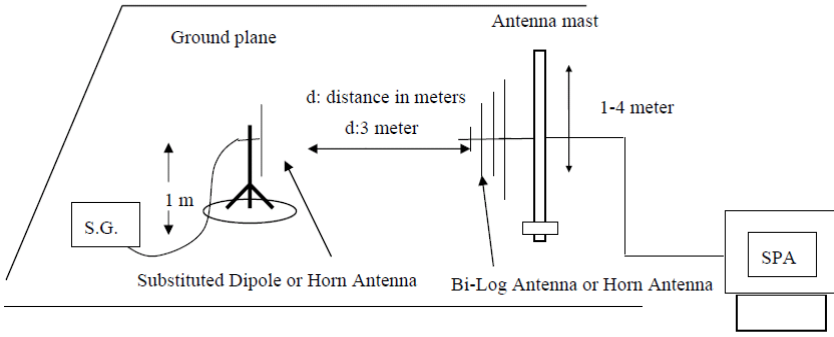
Lowest channel



Date: 14.AUG.2016 09:49:45

Highest channel

6.10 ERP, EIRP Measurement

Test Requirement:	24.232 (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	22.44	33.00	Pass
					H	19.28		
1850.70	18607	16QAM	1.4	H	V	22.74		
					H	19.95		
1.4MHz(RB size 3 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	22.53	33.00	Pass
					H	20.34		
1850.70	18607	16QAM	1.4	H	V	22.69		
					H	20.04		
1.4MHz(RB size 6 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	21.43	33.00	Pass
					H	19.17		
1850.70	18607	16QAM	1.4	H	V	21.99		
					H	21.18		

Middle channel

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	21.36	33.00	Pass
					H	20.49		
1880.00	18900	16QAM	1.4	H	V	22.03		
					H	19.42		
1.4MHz(RB size 3 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	22.49	33.00	Pass
					H	20.43		
1880.00	18900	16QAM	1.4	H	V	22.74		
					H	21.34		
1.4MHz(RB size 6 & RB offset 0)								
1880.00	18900	QPSK	1.40	H	V	21.48	33.00	Pass
					H	20.05		
1880.00	18900	16QAM	1.40	H	V	21.74		
					H	21.36		

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	22.47	33.00	Pass
					H	21.34		
1909.30	19193	16QAM	1.4	H	V	22.85		
					H	18.74		
1.4MHz(RB size 3 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	22.14	33.00	Pass
					H	20.46		
1909.30	19193	16QAM	1.4	H	V	22.03		
					H	21.74		
1.4MHz(RB size 6 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	21.47	33.00	Pass
					H	22.02		
1909.30	19193	16QAM	1.4	H	V	21.49		
					H	21.45		

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	22.64	33.00	Pass
					H	19.47		
1860.00	18700	16QAM	20	H	V	21.70		
					H	20.38		
20MHz(RB size 50 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	22.16	33.00	Pass
					H	21.23		
1860.00	18700	16QAM	20	H	V	22.49		
					H	19.50		
20MHz(RB size 100 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	20.69	33.00	Pass
					H	20.31		
1860.00	18700	16QAM	20	H	V	20.94		
					H	20.92		

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	21.63	33.00	Pass
					H	20.46		
1880.00	18900	16QAM	20	H	V	21.40		
					H	20.74		
20MHz(RB size 50 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	22.47	33.00	Pass
					H	21.36		
1880.00	18900	16QAM	20	H	V	22.02		
					H	20.49		
20MHz(RB size 100 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	20.47	33.00	Pass
					H	21.36		
1880.00	18900	16QAM	20	H	V	21.32		
					H	21.02		

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	21.47	33.00	Pass
					H	20.78		
1900.00	19100	16QAM	20	H	V	21.43		
					H	21.41		
20MHz(RB size 50 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	21.47	33.00	Pass
					H	22.05		
1900.00	19100	16QAM	20	H	V	21.49		
					H	21.36		
20MHz(RB size 100 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	20.14	33.00	Pass
					H	21.45		
1900.00	19100	16QAM	20	H	V	21.89		
					H	21.46		

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	18.49	30.00	Pass
					H	19.72		
1710.70	19957	16QAM	1.4	H	V	20.35		
					H	19.84		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	20.54	30.00	Pass
					H	20.50		
1710.70	19957	16QAM	1.4	H	V	19.27		
					H	19.80		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	20.47	30.00	Pass
					H	20.59		
1710.70	19957	16QAM	1.4	H	V	19.08		
					H	20.04		

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	19.32	30.00	Pass
					H	18.24		
1732.50	20175	16QAM	1.4	H	V	19.45		
					H	18.74		
1.4MHz(RB size 3 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	21.46	30.00	Pass
					H	20.36		
1732.50	20175	16QAM	1.4	H	V	18.49		
					H	19.36		
1.4MHz(RB size 6 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	21.45	30.00	Pass
					H	20.46		
1732.50	20175	16QAM	1.4	H	V	20.47		
					H	21.69		

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	18.46	30.00	Pass
					H	19.63		
1754.30	20393	16QAM	1.4	H	V	19.42		
					H	19.47		
1.4MHz(RB size 3 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	20.03	30.00	Pass
					H	20.47		
1754.30	20393	16QAM	1.4	H	V	19.85		
					H	18.43		
1.4MHz(RB size 6 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	20.41	30.00	Pass
					H	19.43		
1754.30	20393	16QAM	1.4	H	V	18.78		
					H	18.46		

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	20.47	30.00	Pass
					H	18.49		
1720.00	20050	16QAM	20	H	V	19.31		
					H	18.79		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	18.53	30.00	Pass
					H	19.64		
1720.00	20050	16QAM	20	H	V	19.47		
					H	18.94		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	19.38	30.00	Pass
					H	18.37		
1720.00	20050	16QAM	20	H	V	19.50		
					H	18.91		

Middle channel

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	20.14	30.00	Pass
					H	19.34		
1732.50	20175	16QAM	20	H	V	18.74		
					H	20.36		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	19.43	30.00	Pass
					H	18.02		
1732.50	20175	16QAM	20	H	V	19.46		
					H	20.13		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	20.48	30.00	Pass
					H	19.47		
1732.50	20175	16QAM	20	H	V	18.41		
					H	20.63		

High channel

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	20.74	30.00	Pass
					H	19.36		
1745.00	20300	16QAM	20	H	V	18.47		
					H	20.46		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	18.42	30.00	Pass
					H	19.34		
1745.00	20300	16QAM	20	H	V	20.43		
					H	19.46		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	20.14	30.00	Pass
					H	20.45		
1745.00	20300	16QAM	20	H	V	19.36		
					H	18.49		

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	18.13	33.00	Pass
					H	19.75		
2502.50	20775	16QAM	5	H	V	18.72		
					H	19.24		
5MHz(RB size 12& RB offset 0)								
2502.50	20775	QPSK	5	H	V	19.62	33.00	Pass
					H	19.93		
2502.50	20775	16QAM	5	H	V	19.89		
					H	19.54		
5MHz(RB size 25& RB offset 0)								
2502.50	20775	QPSK	5	H	V	18.56	33.00	Pass
					H	19.89		
2502.50	20775	16QAM	5	H	V	18.25		
					H	19.85		

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	19.35	33.00	Pass
					H	19.52		
2535.00	21100	16QAM	5	H	V	18.47		
					H	19.32		
5MHz(RB size 12& RB offset 0)								
2535.00	21100	QPSK	5	H	V	18.59	33.00	Pass
					H	19.36		
2535.00	21100	16QAM	5	H	V	19.25		
					H	19.84		
5MHz(RB size 25& RB offset 0)								
2535.00	21100	QPSK	5	H	V	18.74	33.00	Pass
					H	18.63		
2535.00	21100	16QAM	5	H	V	19.36		
					H	19.42		

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	19.62	33.00	Pass
					H	18.47		
2567.50	21425	16QAM	5	H	V	18.63		
					H	19.36		
5MHz(RB size 12& RB offset 0)								
2567.50	21425	QPSK	5	H	V	19.45	33.00	Pass
					H	18.73		
2567.50	21425	16QAM	5	H	V	19.36		
					H	19.42		
5MHz(RB size 25& RB offset 0)								
2567.50	21425	QPSK	5	H	V	19.41	33.00	Pass
					H	19.15		
2567.50	21425	16QAM	5	H	V	18.25		
					H	18.43		

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	19.53	33.00	Pass
					H	18.65		
2510.00	20850	16QAM	20	H	V	19.01		
					H	20.03		
20MHz(RB size 50 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	19.80	33.00	Pass
					H	20.98		
2510.00	20850	16QAM	20	H	V	19.50		
					H	20.23		
20MHz(RB size 100 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	18.64	33.00	Pass
					H	19.87		
2510.00	20850	16QAM	20	H	V	18.26		
					H	19.45		

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	20.25	33.00	Pass
					H	19.63		
2535.00	21100	16QAM	20	H	V	18.45		
					H	19.36		
20MHz(RB size 50 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	20.15	33.00	Pass
					H	19.48		
2535.00	21100	16QAM	20	H	V	19.63		
					H	18.24		
20MHz(RB size 100 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	19.41	33.00	Pass
					H	19.85		
2535.00	21100	16QAM	20	H	V	18.24		
					H	20.14		

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	20.16	33.00	Pass
					H	19.36		
2560.00	21350	16QAM	20	H	V	18.52		
					H	19.47		
20MHz(RB size 50 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	20.14	33.00	Pass
					H	20.36		
2560.00	21350	16QAM	20	H	V	18.32		
					H	19.24		
20MHz(RB size 100 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	19.47	33.00	Pass
					H	18.42		
2560.00	21350	16QAM	20	H	V	18.02		
					H	19.35		

LTE band 17 part 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	19.43	34.77	Pass
					H	18.74		
706.50	23755	16QAM	5	H	V	20.26		
					H	18.42		
5MHz(RB size 12 & RB offset 0)								
706.50	23755	QPSK	5	H	V	18.46	34.77	Pass
					H	17.36		
706.50	23755	16QAM	5	H	V	20.12		
					H	19.32		
5MHz(RB size 25 & RB offset 0)								
706.50	23755	QPSK	5	H	V	19.45	34.77	Pass
					H	18.52		
706.50	23755	16QAM	5	H	V	19.62		
					H	18.42		

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	18.62	34.77	Pass
					H	19.32		
710.00	23790	16QAM	5	H	V	20.45		
					H	19.46		
5MHz(RB size 12 & RB offset 0)								
710.00	23790	QPSK	5	H	V	20.13	34.77	Pass
					H	19.64		
710.00	23790	16QAM	5	H	V	18.44		
					H	19.63		
5MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	5	H	V	20.43	34.77	Pass
					H	19.62		
710.00	23790	16QAM	5	H	V	18.45		
					H	19.32		

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	19.46	34.77	Pass
					H	18.56		
713.50	23825	16QAM	5	H	V	18.42		
					H	19.21		
5MHz(RB size 12 & RB offset 0)								
713.50	23825	QPSK	5	H	V	20.14	34.77	Pass
					H	21.14		
713.50	23825	16QAM	5	H	V	21.87		
					H	20.58		
5MHz(RB size 25 & RB offset 0)								
713.50	23825	QPSK	5	H	V	19.54	34.77	Pass
					H	18.47		
713.50	23825	16QAM	5	H	V	18.63		
					H	19.58		

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	22.30	34.77	Pass
					H	19.66		
709.00	23780	16QAM	10	H	V	18.69		
					H	20.65		
10MHz(RB size 25& RB offset 0)								
709.00	23780	QPSK	10	H	V	19.70	34.77	Pass
					H	18.94		
709.00	23780	16QAM	10	H	V	24.11		
					H	20.41		
10MHz(RB size 50& RB offset 0)								
709.00	23780	QPSK	10	H	V	18.96	34.77	Pass
					H	20.39		
709.00	23780	16QAM	10	H	V	20.16		
					H	19.65		

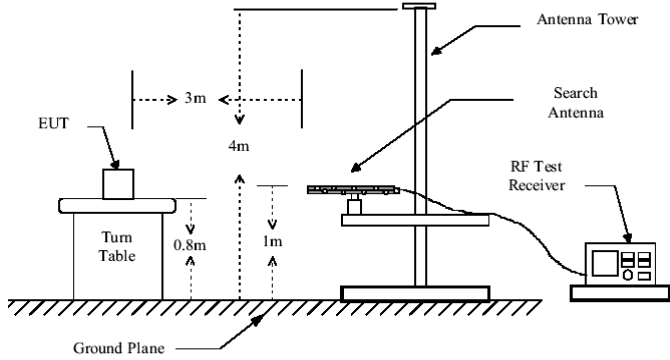
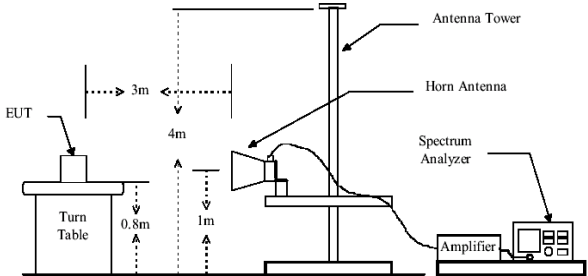
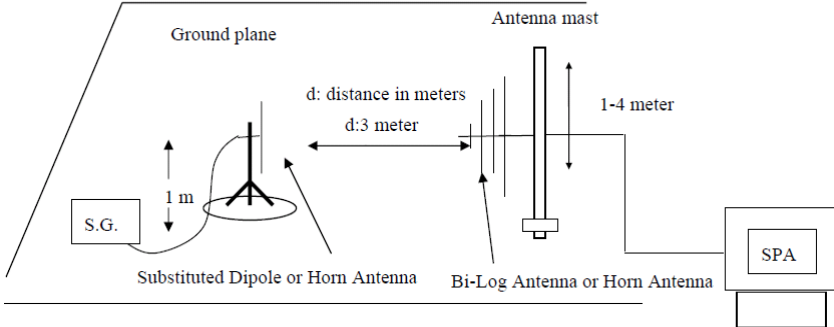
Middle channel

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	21.34	34.77	Pass
					H	20.13		
710.00	23790	16QAM	10	H	V	19.34		
					H	20.45		
10MHz(RB size 25& RB offset 0)								
710.00	23790	QPSK	10	H	V	18.46	34.77	Pass
					H	19.34		
710.00	23790	16QAM	10	H	V	23.46		
					H	20.41		
10MHz(RB size 50& RB offset 0)								
710.00	23790	QPSK	10	H	V	19.46	34.77	Pass
					H	18.42		
710.00	23790	16QAM	10	H	V	20.43		
					H	19.46		

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	22.45	34.77	Pass
					H	20.16		
711.00	23800	16QAM	10	H	V	19.41		
					H	20.43		
10MHz(RB size 25& RB offset 0)								
711.00	23800	QPSK	10	H	V	19.32	34.77	Pass
					H	18.24		
711.00	23800	16QAM	10	H	V	19.30		
					H	20.46		
10MHz(RB size 50& RB offset 0)								
711.00	23800	QPSK	10	H	V	20.14	34.77	Pass
					H	19.42		
711.00	23800	16QAM	10	H	V	18.45		
					H	20.46		

6.11 Field strength of spurious radiation measurement

Test Requirement:	Part 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 5 and 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

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3701.40	Vertical	-48.80	-13.00	Pass
5552.10	V	-40.94		
7402.00	V	-34.05		
3701.40	Horizontal	-47.43		
5552.10	H	-39.06		
7402.00	H	-36.97		
Middle				
3760.00	Vertical	-47.10	-13.00	Pass
5640.00	V	-37.32		
7520.00	V	-37.69		
3760.00	Horizontal	-43.99		
5640.00	H	-34.64		
7520.00	H	-38.48		
Highest				
3816.60	Vertical	-45.01	-13.00	Pass
5724.90	V	-37.40		
7633.20	V	-35.83		
3816.60	Horizontal	-46.77		
5724.90	H	-34.44		
7633.20	H	-33.59		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3703.00	Vertical	-48.96	-13.00	Pass
5554.50	V	-42.16		
7406.00	V	-37.96		
3703.00	Horizontal	-48.12		
5554.50	H	-40.15		
7406.00	H	-38.95		
Middle				
3760.00	Vertical	-48.72	-13.00	Pass
5640.00	V	-41.63		
7520.00	V	-37.58		
3760.00	Horizontal	-32.49		
5640.00	H	-32.15		
7520.00	H	-39.78		
Highest				
3817.00	Vertical	-47.51	-13.00	Pass
5725.50	V	-41.25		
7634.00	V	-38.97		
3817.00	Horizontal	-50.01		
5725.50	H	-38.96		
7634.00	H	-42.18		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3705.00	Vertical	-47.34	-13.00	Pass
5557.50	V	-41.25		
7410.00	V	-34.63		
3705.00	Horizontal	-47.51		
5557.50	H	-40.15		
7410.00	H	-36.89		
Middle				
3760.00	Vertical	-47.21	-13.00	Pass
5640.00	V	-37.58		
7520.00	V	-37.69		
3760.00	Horizontal	-44.58		
5640.00	H	-34.15		
7520.00	H	-38.78		
Highest				
3815.00	Vertical	-45.15	-13.00	Pass
5722.50	V	-37.89		
7630.00	V	-36.58		
3815.00	Horizontal	-46.75		
5722.50	H	-35.01		
7630.00	H	-34.80		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3710.00	Vertical	-48.24	-13.00	Pass
5565.00	V	-43.61		
7420.00	V	-36.45		
3710.00	Horizontal	-47.18		
5565.00	H	-39.73		
7420.00	H	-37.25		
Middle				
3760.00	Vertical	-48.79	-13.00	Pass
5640.00	V	-40.01		
7520.00	V	-36.45		
3760.00	Horizontal	-46.78		
5640.00	H	-32.46		
7520.00	H	-40.15		
Highest				
3810.00	Vertical	-46.19	-13.00	Pass
5715.00	V	-40.25		
7620.00	V	-37.98		
3810.00	Horizontal	-49.78		
5715.00	H	-37.02		
7620.00	H	-41.69		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3715.00	Vertical	-47.52	-13.00	Pass
5572.50	V	-42.18		
7430.00	V	-33.25		
3715.00	Horizontal	-46.78		
5572.50	H	-40.15		
7430.00	H	-36.48		
Middle				
3760.00	Vertical	-47.81	-13.00	Pass
5640.00	V	-36.52		
7520.00	V	-38.79		
3760.00	Horizontal	-43.15		
5640.00	H	-34.18		
7520.00	H	-39.51		
Highest				
3805.00	Vertical	-45.18	-13.00	Pass
5707.50	V	-37.54		
7610.00	V	-36.52		
3805.00	Horizontal	-46.89		
5707.50	H	-36.58		
7610.00	H	-36.95		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3720.00	Vertical	-49.40	-13.00	Pass
5580.00	V	-42.19		
7440.00	V	-34.63		
3720.00	Horizontal	-46.70		
5580.00	H	-38.28		
7440.00	H	-36.16		
Middle				
3760.00	Vertical	-48.92	-13.00	Pass
5640.00	V	-39.83		
7520.00	V	-36.33		
3760.00	Horizontal	-47.85		
5640.00	H	-31.44		
7520.00	H	-40.91		
Highest				
3800.00	Vertical	-46.30	-13.00	Pass
5700.00	V	-39.40		
7600.00	V	-36.43		
3800.00	Horizontal	-49.38		
5700.00	H	-36.97		
7600.00	H	-40.59		

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	-46.30	-13.00	Pass
5132.10	V	-39.40		
6842.80	V	-36.43		
3421.40	Horizontal	-43.02		
5132.10	H	-44.07		
6842.80	H	-36.68		
Middle				
3465.00	Vertical	-38.56	-13.00	Pass
5197.50	V	-43.27		
6930.00	V	-34.93		
3465.00	Horizontal	-47.56		
5197.50	H	-41.50		
6930.00	H	-36.79		
Highest				
3508.60	Vertical	-42.49	-13.00	Pass
5262.90	V	-41.02		
7017.20	V	-37.32		
3508.60	Horizontal	-43.22		
5262.90	H	-37.02		
7017.20	H	-34.06		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-47.81	-13.00	Pass
5134.50	V	-42.63		
6846.00	V	-43.19		
3423.00	Horizontal	-47.81		
5134.50	H	-42.51		
6846.00	H	-33.62		
Middle				
3465.00	Vertical	-40.85	-13.00	Pass
5197.50	V	-42.96		
6930.00	V	-40.48		
3465.00	Horizontal	-46.85		
5197.50	H	-42.16		
6930.00	H	-41.79		
Highest				
3507.00	Vertical	-41.67	-13.00	Pass
5260.50	V	-42.63		
7014.00	V	-36.52		
3507.00	Horizontal	-47.81		
5260.50	H	-41.24		
7014.00	H	-36.67		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-47.36	-13.00	Pass
5137.50	V	-39.58		
6850.00	V	-37.64		
3425.00	Horizontal	-43.15		
5137.50	H	-44.95		
6850.00	H	-37.62		
Middle				
3465.00	Vertical	-38.56	-13.00	Pass
5197.50	V	-42.15		
6930.00	V	-34.65		
3465.00	Horizontal	-47.25		
5197.50	H	-41.85		
6930.00	H	-37.95		
Highest				
3505.00	Vertical	-42.15	-13.00	Pass
5257.50	V	-42.96		
7010.00	V	-38.97		
3505.00	Horizontal	-42.15		
5257.50	H	-38.95		
7010.00	H	-34.62		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-46.25	-13.00	Pass
5145.00	V	-43.58		
6860.00	V	-42.16		
3430.00	Horizontal	-47.58		
5145.00	H	-42.69		
6860.00	H	-33.25		
Middle				
3465.00	Vertical	-40.15	-13.00	Pass
5197.50	V	-42.79		
6930.00	V	-40.28		
3465.00	Horizontal	-45.16		
5197.50	H	-42.79		
6930.00	H	-41.76		
Highest				
3500.00	Vertical	-40.15	-13.00	Pass
5250.00	V	-41.97		
7000.00	V	-36.58		
3500.00	Horizontal	-48.91		
5250.00	H	-41.74		
7000.00	H	-35.25		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-48.91	-13.00	Pass
5152.50	V	-39.56		
6870.00	V	-37.54		
3435.00	Horizontal	-43.15		
5152.50	H	-44.25		
6870.00	H	-37.57		
Middle				
3465.00	Vertical	-38.79	-13.00	Pass
5197.50	V	-42.64		
6930.00	V	-34.15		
3465.00	Horizontal	-48.96		
5197.50	H	-42.52		
6930.00	H	-38.92		
Highest				
3495.00	Vertical	-42.14	-13.00	Pass
5242.50	V	-42.69		
6990.00	V	-38.95		
3495.00	Horizontal	-42.58		
5242.50	H	-38.45		
6990.00	H	-34.28		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-47.86	-13.00	Pass
5160.00	V	-43.66		
6880.00	V	-41.18		
3440.00	Horizontal	-47.90		
5160.00	H	-43.82		
6880.00	H	-32.72		
Middle				
3465.00	Vertical	-39.82	-13.00	Pass
5197.50	V	-41.55		
6930.00	V	-39.03		
3465.00	Horizontal	-45.14		
5197.50	H	-43.21		
6930.00	H	-40.77		
Highest				
3490.00	Vertical	-39.17	-13.00	Pass
5235.00	V	-40.97		
6980.00	V	-35.43		
3490.00	Horizontal	-47.84		
5235.00	H	-40.28		
6980.00	H	-36.26		

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	-42.83	-25.00	Pass
7507.50	V	-34.03		
10010.00	V	-35.07		
5005.00	Horizontal	-43.42		
7507.50	H	-36.60		
10010.00	H	-35.69		
Middle				
5070.00	Vertical	-43.92	-25.00	Pass
7605.00	V	-31.02		
10140.00	V	-32.20		
5070.00	Horizontal	-41.78		
7605.00	H	-34.07		
10140.00	H	-34.37		
Highest				
5135.00	Vertical	-43.38	-25.00	Pass
7702.50	V	-33.16		
10270.00	V	-32.88		
5135.00	Horizontal	-42.34		
7702.50	H	-36.09		
10270.00	H	-37.00		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5010.00	Vertical	-42.61	-25.00	Pass
7515.00	V	-32.63		
10020.00	V	-36.78		
5010.00	Horizontal	-42.15		
7515.00	H	-36.78		
10020.00	H	-35.92		
Middle				
5070.00	Vertical	-42.16	-25.00	Pass
7605.00	V	-36.42		
10140.00	V	-36.25		
5070.00	Horizontal	-42.15		
7605.00	H	-38.94		
10140.00	H	-36.32		
Highest				
5130.00	Vertical	-44.15	-25.00	Pass
7695.00	V	-36.78		
10260.00	V	-36.52		
5130.00	Horizontal	-43.15		
7695.00	H	-37.91		
10260.00	H	-36.21		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5015.00	Vertical	-42.36	-25.00	Pass
7522.50	V	-34.58		
10030.00	V	-35.62		
5015.00	Horizontal	-43.75		
7522.50	H	-36.85		
10030.00	H	-35.49		
Middle				
5070.00	Vertical	-43.15	-25.00	Pass
7605.00	V	-32.25		
10140.00	V	-32.64		
5070.00	Horizontal	-41.79		
7605.00	H	-34.61		
10140.00	H	-35.96		
Highest				
5125.00	Vertical	-42.15	-25.00	Pass
7687.50	V	-34.78		
10250.00	V	-33.62		
5125.00	Horizontal	-42.15		
7687.50	H	-35.78		
10250.00	H	-36.48		

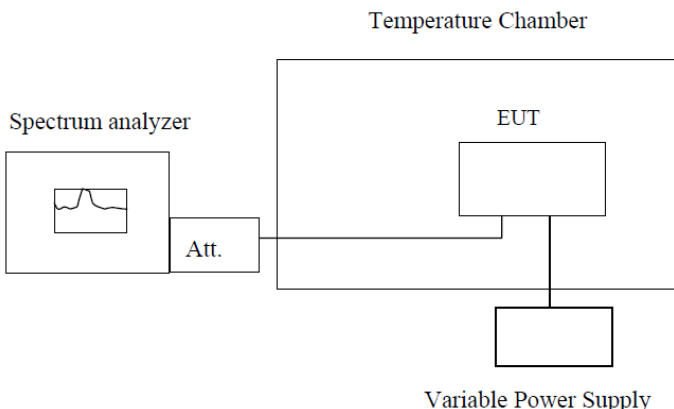
20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5020.00	Vertical	-43.69	-25.00	Pass
7530.00	V	-32.25		
10040.00	V	-36.64		
5020.00	Horizontal	-42.13		
7530.00	H	-36.21		
10040.00	H	-36.02		
Middle				
5070.00	Vertical	-41.96	-25.00	Pass
7605.00	V	-36.85		
10140.00	V	-35.56		
5070.00	Horizontal	-43.01		
7605.00	H	-38.73		
10140.00	H	-35.56		
Highest				
5120.00	Vertical	-44.08	-25.00	Pass
7680.00	V	-36.64		
10240.00	V	-36.71		
5120.00	Horizontal	-43.69		
7680.00	H	-37.61		
10240.00	H	-36.18		

LTE Band 17 Part:

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1413.00	Vertical	-58.09	-13.00	Pass
2119.50	V	-38.84		
2826.00	V	-49.15		
1413.00	Horizontal	-52.75		
2119.50	H	-45.12		
2826.00	H	-51.88		
Middle				
1420.00	Vertical	-59.93	-13.00	Pass
2130.00	V	-50.48		
2840.00	V	-46.27		
1420.00	Horizontal	-58.60		
2130.00	H	-51.20		
2840.00	H	-49.53		
Highest				
1427.00	Vertical	-56.05	-13.00	Pass
2140.50	V	-53.52		
2854.00	V	-47.16		
1427.00	Horizontal	-55.60		
2140.50	H	-52.94		
2854.00	H	-49.50		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1418.00	Vertical	-58.46	-13.00	Pass
2127.00	V	-49.86		
2836.00	V	-49.70		
1418.00	Horizontal	-56.66		
2127.00	H	-51.58		
2836.00	H	-50.06		
Middle				
1420.00	Vertical	-57.36	-13.00	Pass
2130.00	V	-50.02		
2840.00	V	-48.52		
1420.00	Horizontal	-55.85		
2130.00	H	-52.57		
2840.00	H	-50.21		
Highest				
1422.00	Vertical	-55.86	-13.00	Pass
2133.00	V	-50.52		
2844.00	V	-51.72		
1422.00	Horizontal	-56.35		
2133.00	H	-53.25		
2844.00	H	-50.97		

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		
3.70	-30	198	0.105319	±2.5	Pass
	-20	123	0.065426		
	-10	155	0.082447		
	0	126	0.067021		
	10	144	0.076596		
	20	174	0.092553		
	30	188	0.100000		
	40	101	0.053723		
	50	105	0.055851		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	165	0.087766	±2.5	Pass
	-20	123	0.065426		
	-10	135	0.071809		
	0	139	0.073936		
	10	144	0.076596		
	20	140	0.074468		
	30	169	0.089894		
	40	177	0.094149		
	50	101	0.053723		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	152	0.080851	±2.5	Pass
	-20	123	0.065426		
	-10	136	0.072340		
	0	133	0.070745		
	10	124	0.065957		
	20	101	0.053723		
	30	108	0.057447		
	40	114	0.060638		
	50	116	0.061702		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	155	0.082447	±2.5	Pass
	-20	181	0.096277		
	-10	166	0.088298		
	0	162	0.086170		
	10	177	0.094149		
	20	145	0.077128		
	30	123	0.065426		
	40	162	0.086170		
	50	130	0.069149		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	158	0.084043	±2.5	Pass
	-20	165	0.087766		
	-10	177	0.094149		
	0	144	0.076596		
	10	102	0.054255		
	20	105	0.055851		
	30	133	0.070745		
	40	160	0.085106		
	50	148	0.078723		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	196	0.104255	±2.5	Pass
	-20	123	0.065426		
	-10	190	0.101064		
	0	126	0.067021		
	10	144	0.076596		
	20	148	0.078723		
	30	120	0.063830		
	40	177	0.094149		
	50	170	0.090426		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	162	0.086170	±2.5	Pass
	-20	101	0.053723		
	-10	123	0.065426		
	0	132	0.070213		
	10	135	0.071809		
	20	108	0.057447		
	30	166	0.088298		
	40	144	0.076596		
	50	140	0.074468		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	155	0.082447	±2.5	Pass
	-20	123	0.065426		
	-10	162	0.086170		
	0	101	0.053723		
	10	144	0.076596		
	20	148	0.078723		
	30	130	0.069149		
	40	136	0.072340		
	50	160	0.085106		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	155	0.082447	±2.5	Pass
	-20	123	0.065426		
	-10	136	0.072340		
	0	138	0.073404		
	10	121	0.064362		
	20	104	0.055319		
	30	108	0.057447		
	40	144	0.076596		
	50	140	0.074468		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	165	0.087766	±2.5	Pass
	-20	158	0.084043		
	-10	150	0.079787		
	0	163	0.086702		
	10	144	0.076596		
	20	147	0.078191		
	30	133	0.070745		
	40	130	0.069149		
	50	128	0.068085		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	177	0.094149	±2.5	Pass
	-20	156	0.082979		
	-10	123	0.065426		
	0	155	0.082447		
	10	128	0.068085		
	20	170	0.090426		
	30	166	0.088298		
	40	160	0.085106		
	50	144	0.076596		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	177	0.094149	±2.5	Pass
	-20	155	0.082447		
	-10	168	0.089362		
	0	150	0.079787		
	10	163	0.086702		
	20	170	0.090426		
	30	144	0.076596		
	40	148	0.078723		
	50	132	0.070213		

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		
3.70	-30	188	0.108514	±2.5	Pass
	-20	152	0.087734		
	-10	132	0.076190		
	0	136	0.078499		
	10	150	0.086580		
	20	144	0.083117		
	30	147	0.084848		
	40	126	0.072727		
	50	120	0.069264		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	177	0.102165	±2.5	Pass
	-20	144	0.083117		
	-10	165	0.095238		
	0	123	0.070996		
	10	136	0.078499		
	20	148	0.085426		
	30	170	0.098124		
	40	155	0.089466		
	50	150	0.086580		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	165	0.095238	±2.5	Pass
	-20	123	0.070996		
	-10	160	0.092352		
	0	120	0.069264		
	10	144	0.083117		
	20	148	0.085426		
	30	132	0.076190		
	40	136	0.078499		
	50	104	0.060029		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	156	0.090043	±2.5	Pass
	-20	123	0.070996		
	-10	130	0.075036		
	0	133	0.076768		
	10	126	0.072727		
	20	144	0.083117		
	30	140	0.080808		
	40	158	0.091198		
	50	149	0.086003		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	177	0.102165	±2.5	Pass
	-20	145	0.083694		
	-10	146	0.084271		
	0	127	0.073304		
	10	136	0.078499		
	20	130	0.075036		
	30	129	0.074459		
	40	114	0.065801		
	50	118	0.068110		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	199	0.114863	±2.5	Pass
	-20	123	0.070996		
	-10	165	0.095238		
	0	122	0.070418		
	10	160	0.092352		
	20	144	0.083117		
	30	148	0.085426		
	40	170	0.098124		
	50	180	0.103896		

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		
3.70	-30	170	0.098124	±2.5	Pass
	-20	123	0.070996		
	-10	130	0.075036		
	0	144	0.083117		
	10	136	0.078499		
	20	148	0.085426		
	30	160	0.092352		
	40	155	0.089466		
	50	150	0.086580		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	169	0.097547	±2.5	Pass
	-20	160	0.092352		
	-10	133	0.076768		
	0	138	0.079654		
	10	144	0.083117		
	20	140	0.080808		
	30	126	0.072727		
	40	128	0.073882		
	50	118	0.068110		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	165	0.095238	±2.5	Pass
	-20	144	0.083117		
	-10	142	0.081962		
	0	130	0.075036		
	10	158	0.091198		
	20	177	0.102165		
	30	162	0.093506		
	40	108	0.062338		
	50	104	0.060029		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	166	0.095815	±2.5	Pass
	-20	123	0.070996		
	-10	128	0.073882		
	0	144	0.083117		
	10	146	0.084271		
	20	160	0.092352		
	30	150	0.086580		
	40	171	0.098701		
	50	130	0.075036		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	156	0.090043	±2.5	Pass
	-20	150	0.086580		
	-10	160	0.092352		
	0	123	0.070996		
	10	136	0.078499		
	20	130	0.075036		
	30	144	0.083117		
	40	148	0.085426		
	50	107	0.061760		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	158	0.091198	±2.5	Pass
	-20	123	0.070996		
	-10	134	0.077345		
	0	144	0.083117		
	10	140	0.080808		
	20	160	0.092352		
	30	171	0.098701		
	40	129	0.074459		
	50	107	0.061760		

LTE Band 7(QPSK):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	198	0.078107	±2.5	Pass
	-20	123	0.048521		
	-10	165	0.065089		
	0	180	0.071006		
	10	144	0.056805		
	20	171	0.067456		
	30	170	0.067061		
	40	182	0.071795		
	50	160	0.063116		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	156	0.061538	±2.5	Pass
	-20	168	0.066272		
	-10	174	0.068639		
	0	142	0.056016		
	10	131	0.051677		
	20	128	0.050493		
	30	149	0.058777		
	40	166	0.065483		
	50	108	0.042604		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	188	0.074162	±2.5	Pass
	-20	123	0.048521		
	-10	165	0.065089		
	0	147	0.057988		
	10	144	0.056805		
	20	129	0.050888		
	30	157	0.061933		
	40	179	0.070611		
	50	150	0.059172		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	197	0.077712	±2.5	Pass
	-20	123	0.048521		
	-10	166	0.065483		
	0	128	0.050493		
	10	144	0.056805		
	20	107	0.042209		
	30	171	0.067456		
	40	156	0.061538		
	50	150	0.059172		

LTE Band 7(16QAM):

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

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	166	0.065483	±2.5	Pass
	-20	152	0.059961		
	-10	158	0.062327		
	0	160	0.063116		
	10	132	0.052071		
	20	134	0.052860		
	30	144	0.056805		
	40	148	0.058383		
	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		
3.70	-30	156	0.061538	±2.5	Pass
	-20	168	0.066272		
	-10	147	0.057988		
	0	171	0.067456		
	10	123	0.048521		
	20	130	0.051282		
	30	136	0.053649		
	40	128	0.050493		
	50	109	0.042998		

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

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	165	0.065089	2.5	Pass
	-20	132	0.052071		
	-10	138	0.054438		
	0	144	0.056805		
	10	146	0.057594		
	20	128	0.050493		
	30	107	0.042209		
	40	118	0.046548		
	50	160	0.063116		

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

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	114	0.044970	2.5	Pass
	-20	152	0.059961		
	-10	160	0.063116		
	0	133	0.052465		
	10	138	0.054438		
	20	144	0.056805		
	30	147	0.057988		
	40	109	0.042998		
	50	126	0.049704		

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		
3.70	-30	192	0.270423	±2.5	Pass
	-20	162	0.228169		
	-10	131	0.184507		
	0	144	0.202817		
	10	123	0.173239		
	20	130	0.183099		
	30	155	0.218310		
	40	160	0.225352		
	50	171	0.240845		

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

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	187	0.263380	±2.5	Pass
	-20	123	0.173239		
	-10	165	0.232394		
	0	144	0.202817		
	10	128	0.180282		
	20	130	0.183099		
	30	135	0.190141		
	40	177	0.249296		
	50	170	0.239437		

LTE Band 17(16QAM):

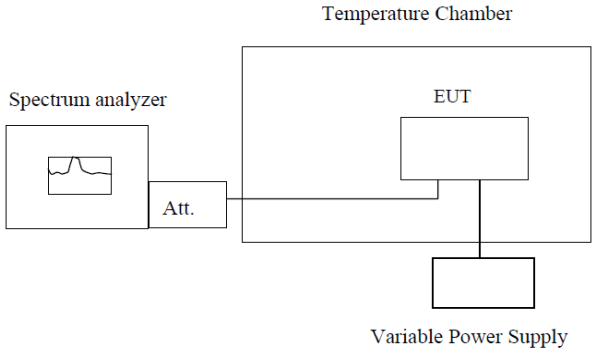
Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	123	0.173239	±2.5	Pass
	-20	152	0.214085		
	-10	144	0.202817		
	0	140	0.197183		
	10	150	0.211268		
	20	121	0.170423		
	30	166	0.233803		
	40	160	0.225352		
	50	177	0.249296		

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

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	155	0.218310	±2.5	Pass
	-20	162	0.228169		
	-10	130	0.183099		
	0	144	0.202817		
	10	126	0.177465		
	20	120	0.169014		
	30	133	0.187324		
	40	166	0.233803		
	50	108	0.152113		

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	4.25	98	0.052128	±2.5	Pass
	3.70	74	0.039362		
	3.14	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	4.25	66	0.035106	±2.5	Pass
	3.70	84	0.044681		
	3.14	71	0.037766		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	90	0.047872	±2.5	Pass
	3.70	68	0.036170		
	3.14	71	0.037766		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	80	0.042553	±2.5	Pass
	3.70	64	0.034043		
	3.14	90	0.047872		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	95	0.050532	±2.5	Pass
	3.70	87	0.046277		
	3.14	82	0.043617		
Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	88	0.046809	±2.5	Pass
	3.70	65	0.034574		
	3.14	73	0.038830		

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	4.25	85	0.045213	±2.5	Pass
	3.70	74	0.039362		
	3.14	64	0.034043		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	90	0.047872	±2.5	Pass
	3.70	82	0.043617		
	3.14	45	0.023936		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	66	0.035106	±2.5	Pass
	3.70	90	0.047872		
	3.14	81	0.043085		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	95	0.050532	±2.5	Pass
	3.70	80	0.042553		
	3.14	74	0.039362		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	84	0.044681	±2.5	Pass
	3.70	45	0.023936		
	3.14	67	0.035638		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	99	0.052660	±2.5	Pass
	3.70	82	0.043617		
	3.14	64	0.034043		

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	4.25	90	0.051948	±2.5	Pass
	3.70	68	0.039250		
	3.14	74	0.042713		
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	4.25	66	0.038095	±2.5	Pass
	3.70	48	0.027706		
	3.14	71	0.040981		
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	4.25	80	0.046176	±2.5	Pass
	3.70	90	0.051948		
	3.14	45	0.025974		
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	4.25	66	0.038095	±2.5	Pass
	3.70	97	0.055988		
	3.14	80	0.046176		
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	4.25	65	0.037518	±2.5	Pass
	3.70	48	0.027706		
	3.14	71	0.040981		
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	4.25	81	0.046753	±2.5	Pass
	3.70	90	0.051948		
	3.14	46	0.026551		

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	4.25	87	0.050216	±2.5	Pass
	3.70	90	0.051948		
	3.14	96	0.055411		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	90	0.051948	±2.5	Pass
	3.70	65	0.037518		
	3.14	77	0.044444		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	78	0.045022	±2.5	Pass
	3.70	81	0.046753		
	3.14	60	0.034632		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	45	0.025974	±2.5	Pass
	3.70	68	0.039250		
	3.14	80	0.046176		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	84	0.048485	±2.5	Pass
	3.70	79	0.045599		
	3.14	90	0.051948		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	65	0.037518	±2.5	Pass
	3.70	48	0.027706		
	3.14	77	0.044444		

LTE Band 7(QPSK):

LTE Band 7(5MHz)

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	4.25	96	0.037870	±2.5	Pass
	3.70	80	0.031558		
	3.14	77	0.030375		
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	4.25	84	0.033136	±2.5	Pass
	3.70	86	0.033925		
	3.14	74	0.029191		
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	4.25	66	0.026036	±2.5	Pass
	3.70	45	0.017751		
	3.14	58	0.022880		
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	4.25	77	0.030375	±2.5	Pass
	3.70	90	0.035503		
	3.14	81	0.031953		

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	4.25	88	0.034714	±2.5	Pass
	3.70	45	0.017751		
	3.14	74	0.029191		
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	4.25	66	0.026036	±2.5	Pass
	3.70	69	0.027219		
	3.14	90	0.035503		
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	4.25	95	0.037475	±2.5	Pass
	3.70	84	0.033136		
	3.14	74	0.029191		
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	4.25	88	0.034714	±2.5	Pass
	3.70	74	0.029191		
	3.14	62	0.024458		

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	4.25	74	0.104225	±2.5	Pass
	3.70	98	0.138028		
	3.14	100	0.140845		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	65	0.091549	±2.5	Pass
	3.70	23	0.032394		
	3.14	84	0.118310		

LTE Band 17(16QAM):

LTE Band 17(5MHz):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	90	0.126761	±2.5	Pass
	3.70	87	0.122535		
	3.14	74	0.104225		
Reference Frequency: LTE Band 17(10MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	88	0.123944	±2.5	Pass
	3.70	60	0.084507		
	3.14	41	0.057746		