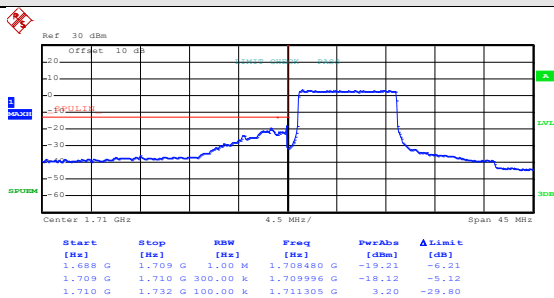


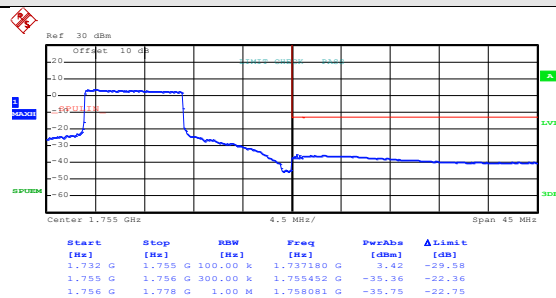
Test Mode:

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



Date: 29.NOV.2015 02:55:47

Lowest channel

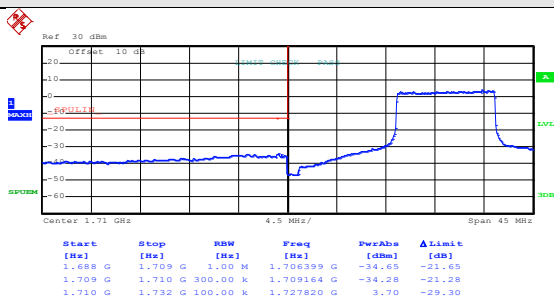


Date: 29.NOV.2015 02:58:00

Highest channel

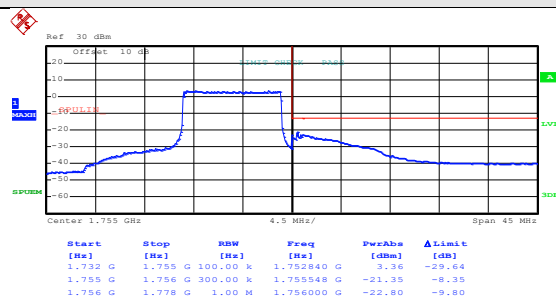
Test Mode:

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



Date: 29.NOV.2015 02:56:07

Lowest channel

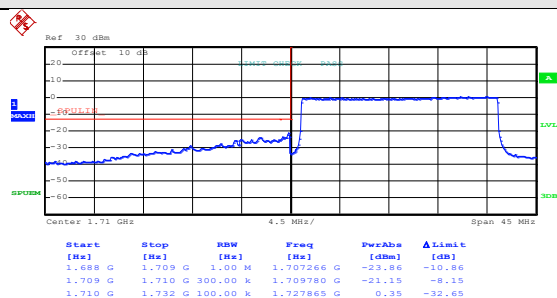


Date: 29.NOV.2015 02:58:22

Highest channel

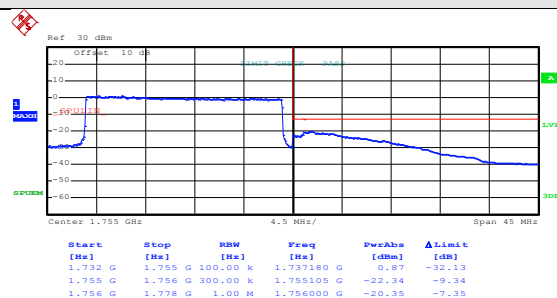
Test Mode:

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



Date: 29.NOV.2015 02:56:23

Lowest channel

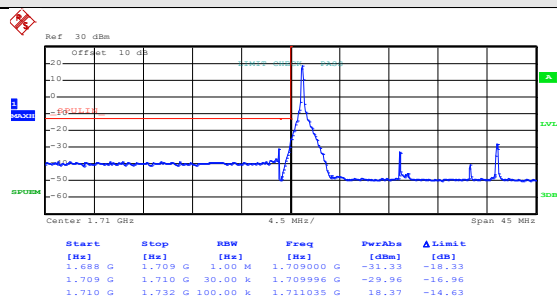


Date: 29.NOV.2015 02:59:06

Highest channel

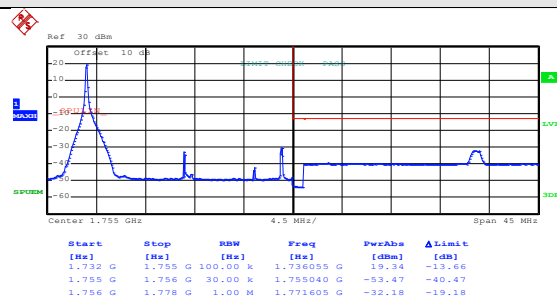
Test Mode:

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



Date: 29.NOV.2015 02:55:10

Lowest channel

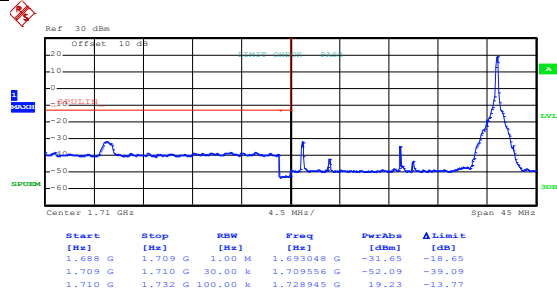


Date: 29.NOV.2015 02:57:09

Highest channel

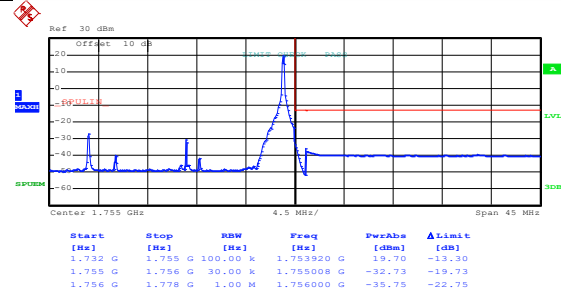
Test Mode:

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



Date: 29.NOV.2015 02:55:32

Lowest channel

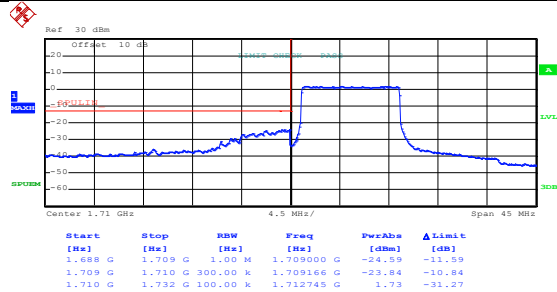


Date: 29.NOV.2015 02:57:44

Highest channel

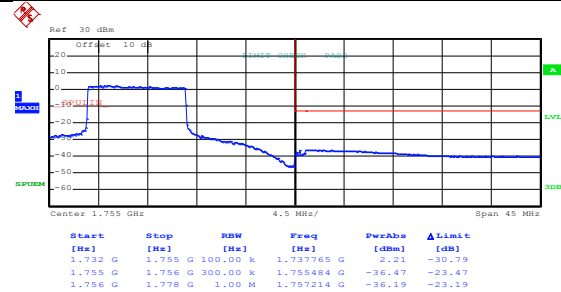
Test Mode:

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



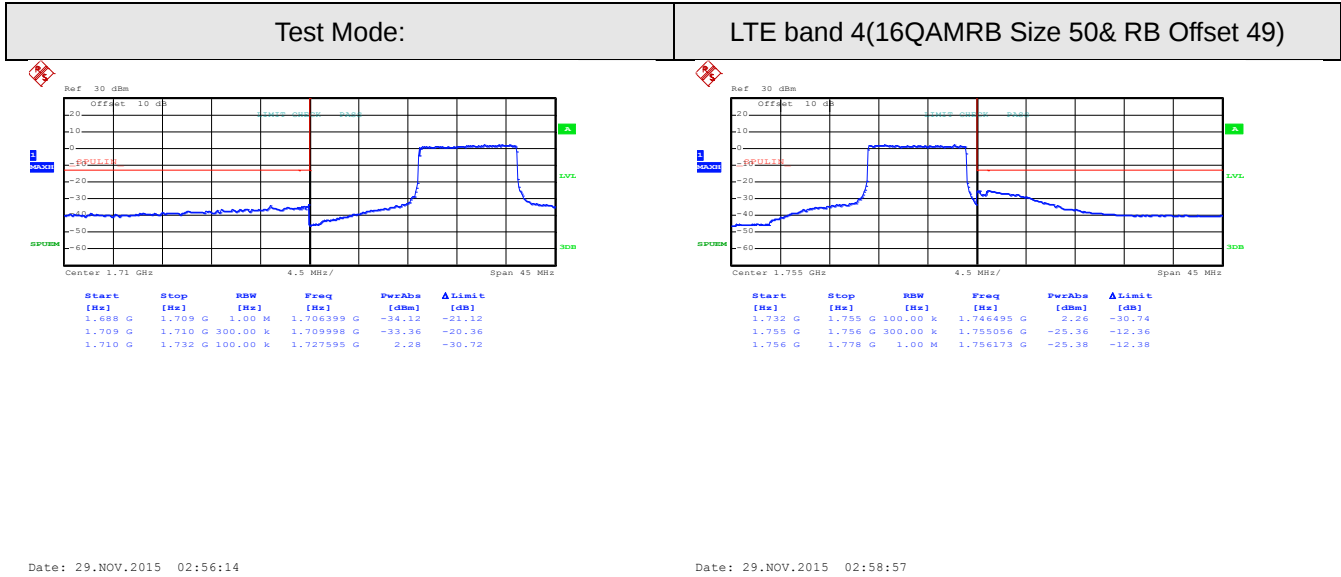
Date: 29.NOV.2015 02:55:57

Lowest channel



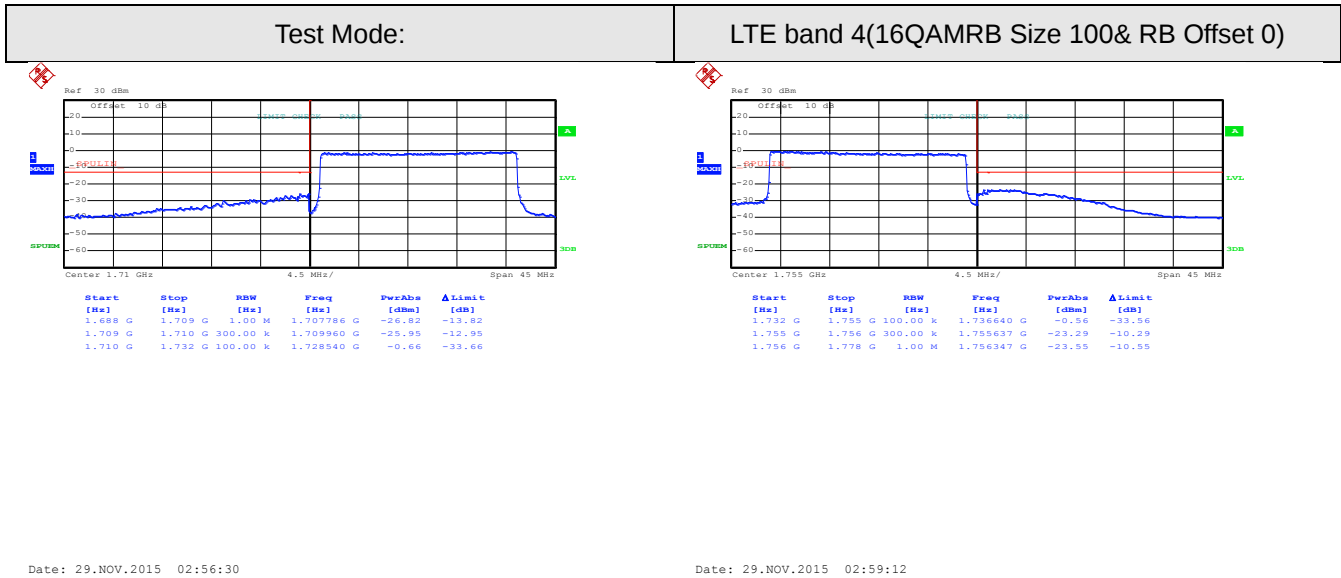
Date: 29.NOV.2015 02:58:10

Highest channel



Lowest channel

Highest channel



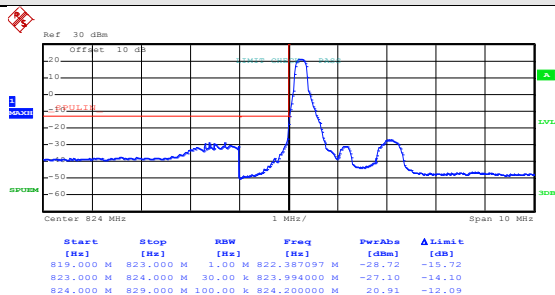
Lowest channel

Highest channel

LTE band 5 part:

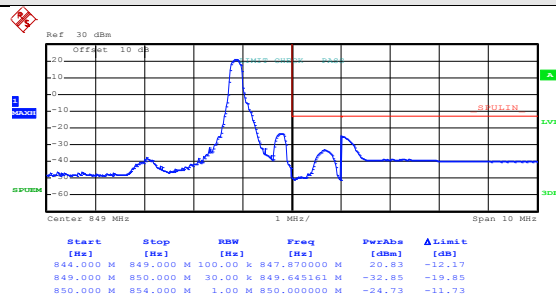
1.4MHz:

Test Mode:	LTE band 5(QPSK RB Size 1& RB Offset 0)
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Date: 29.NOV.2015 03:31:18

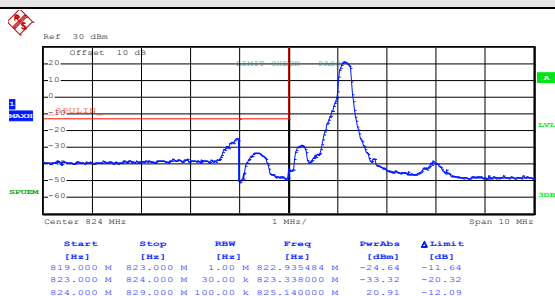
Lowest channel



Date: 29.NOV.2015 03:32:49

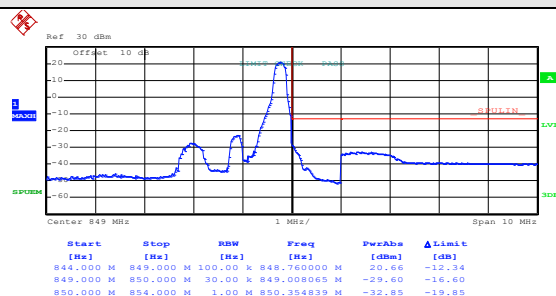
Highest channel

Test Mode:	LTE band 5(QPSK RB Size 1& RB Offset 5)
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Date: 29.NOV.2015 03:31:35

Lowest channel

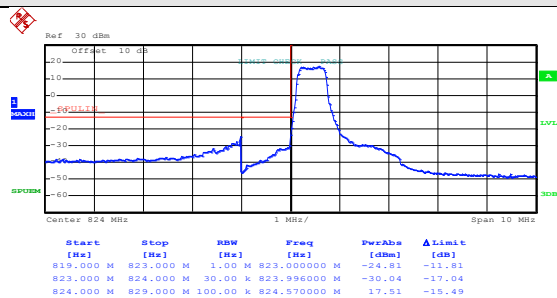


Date: 29.NOV.2015 03:33:02

Highest channel

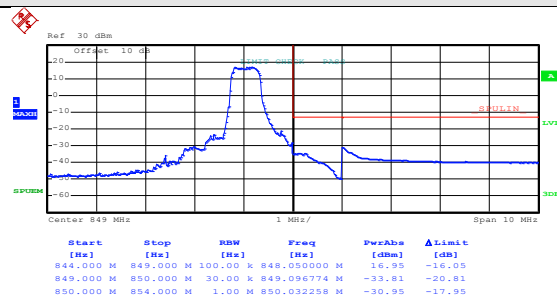
Test Mode:

LTE band 5(QPSK RB Size 3& RB Offset 0)



Date: 29.NOV.2015 03:31:51

Lowest channel

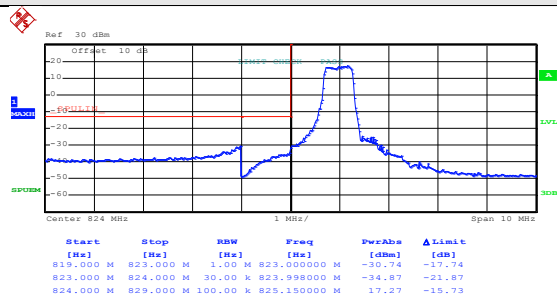


Date: 29.NOV.2015 03:33:17

Highest channel

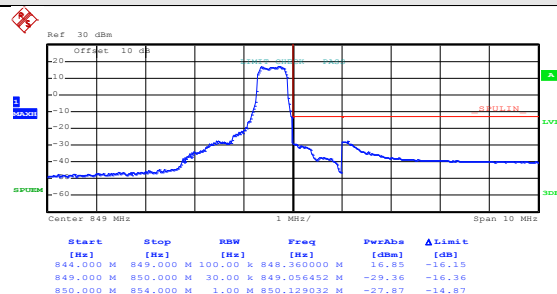
Test Mode:

LTE band 5(QPSK RB Size 3& RB Offset 2)



Date: 29.NOV.2015 03:32:06

Lowest channel

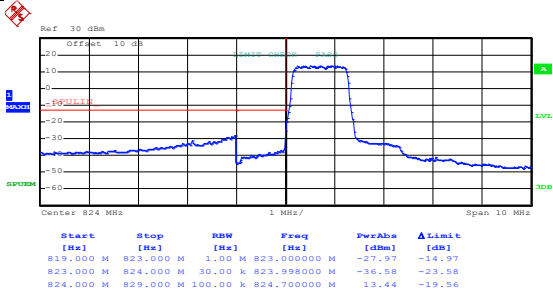


Date: 29.NOV.2015 03:33:31

Highest channel

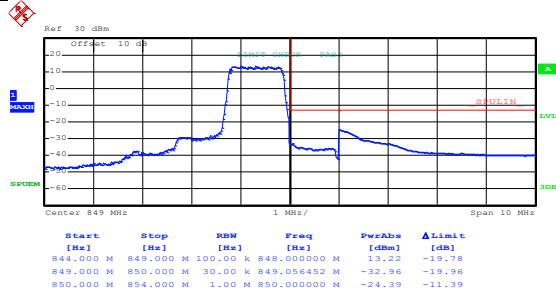
Test Mode:

LTE band 5 (QPSK RB Size 6& RB Offset 0)



Date: 29.NOV.2015 03:32:25

Lowest channel

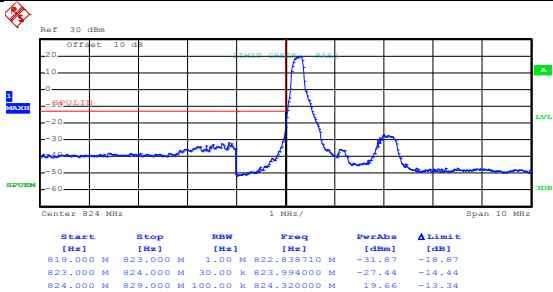


Date: 29.NOV.2015 03:33:46

Highest channel

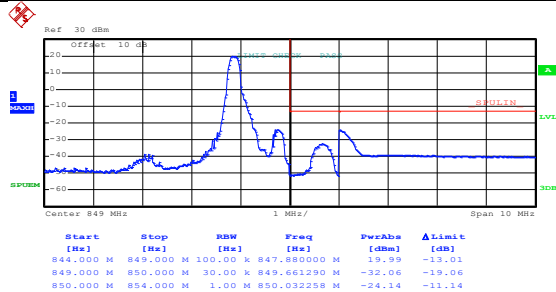
Test Mode:

LTE band 5 (16QAM RB Size 1& RB Offset 0)



Date: 29.NOV.2015 03:31:26

Lowest channel

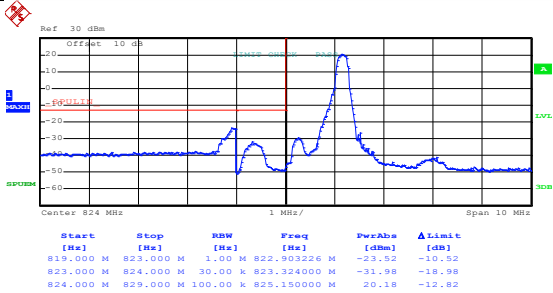


Date: 29.NOV.2015 03:32:55

Highest channel

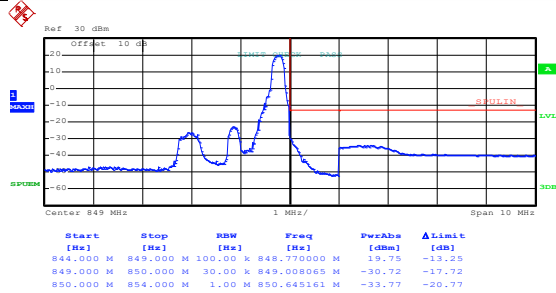
Test Mode:

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



Date: 29.NOV.2015 03:31:42

Lowest channel

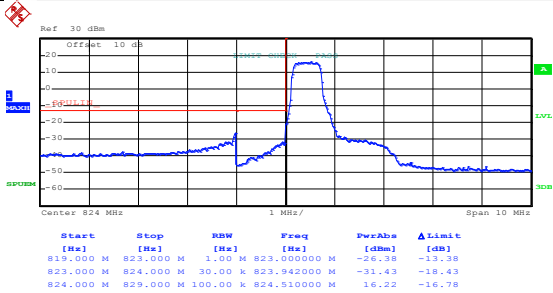


Date: 29.NOV.2015 03:33:08

Highest channel

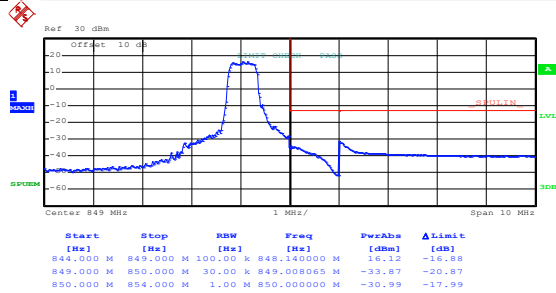
Test Mode:

LTE band 5 (16QAM RB Size 3& RB Offset 0)



Date: 29.NOV.2015 03:31:58

Lowest channel

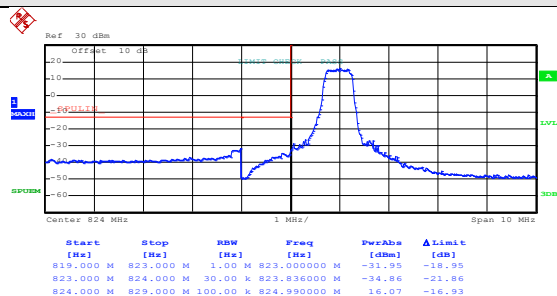


Date: 29.NOV.2015 03:33:23

Highest channel

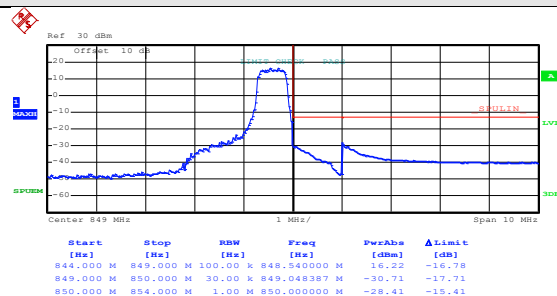
Test Mode:

LTE band 5 (16QAM RB Size 3& RB Offset 2)



Date: 29.NOV.2015 03:32:13

Lowest channel

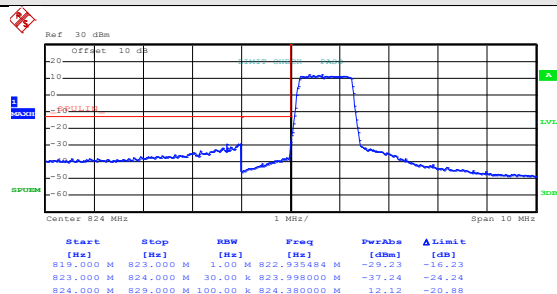


Date: 29.NOV.2015 03:33:37

Highest channel

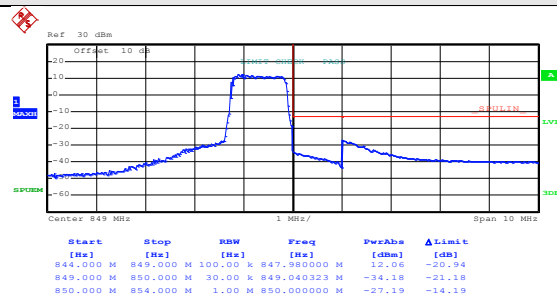
Test Mode:

LTE band 5 (16QAM RB Size 6& RB Offset 0)



Date: 29.NOV.2015 03:32:31

Lowest channel

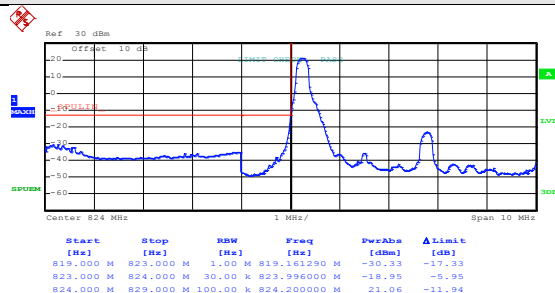


Date: 29.NOV.2015 03:33:50

Highest channel

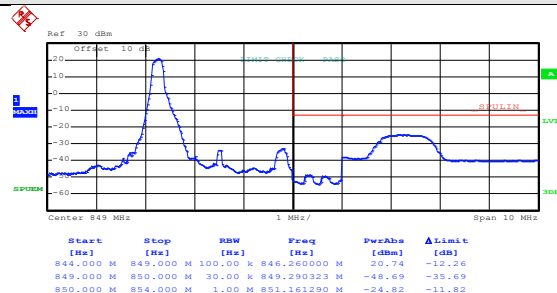
3MHz:

Test Mode:	LTE band 5 (QPSK RB Size 1& RB Offset 0)
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Date: 29.NOV.2015 03:34:29

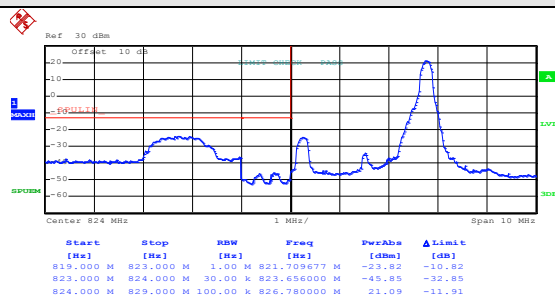
Lowest channel



Date: 29.NOV.2015 03:36:07

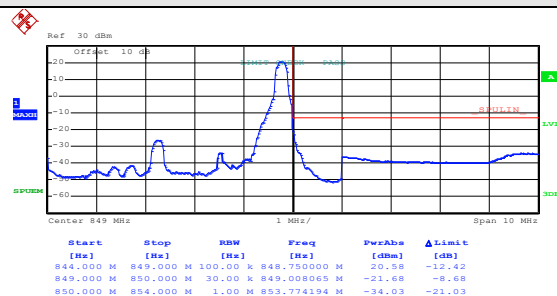
Highest channel

Test Mode:	LTE band 5 (QPSK RB Size 1& RB Offset 14)
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Date: 29.NOV.2015 03:34:51

Lowest channel

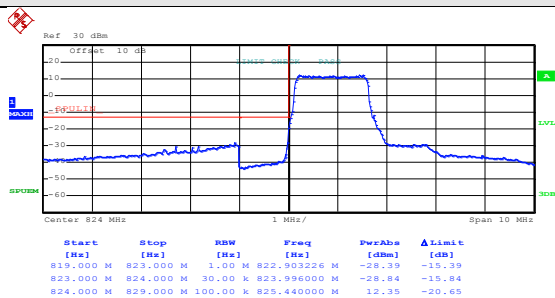


Date: 29.NOV.2015 03:36:22

Highest channel

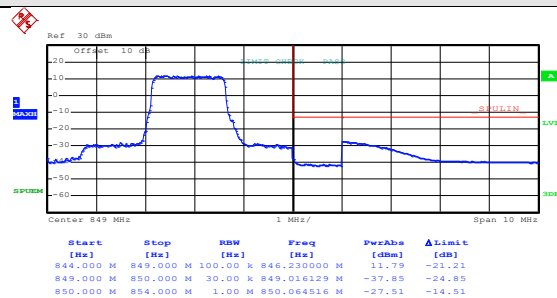
Test Mode:

LTE band 5 (QPSK RB Size 8& RB Offset 0)



Date: 29.NOV.2015 03:35:07

Lowest channel

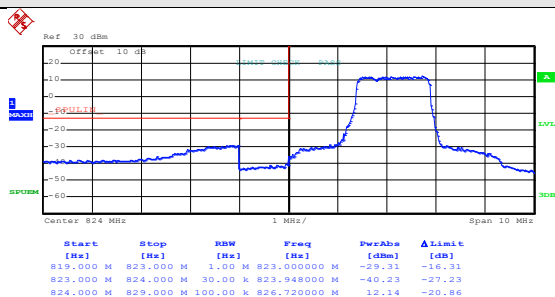


Date: 29.NOV.2015 03:37:04

Highest channel

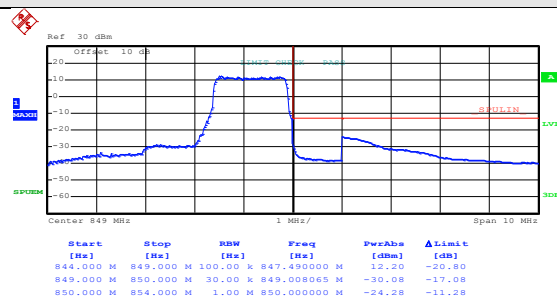
Test Mode:

LTE band 5 (QPSK RB Size 8& RB Offset 7)



Date: 29.NOV.2015 03:35:21

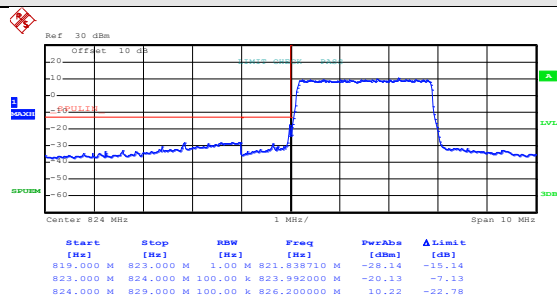
Lowest channel



Date: 29.NOV.2015 03:37:19

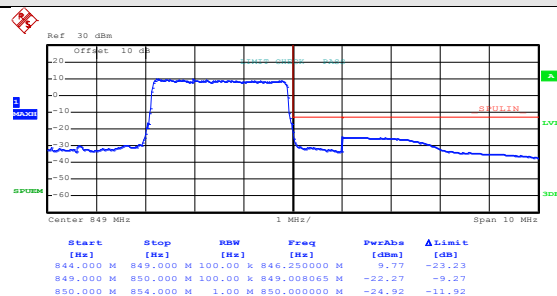
Highest channel

Test Mode:	LTE band 5(QPSK RB Size 15& RB Offset 0)
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Date: 29.NOV.2015 03:35:42

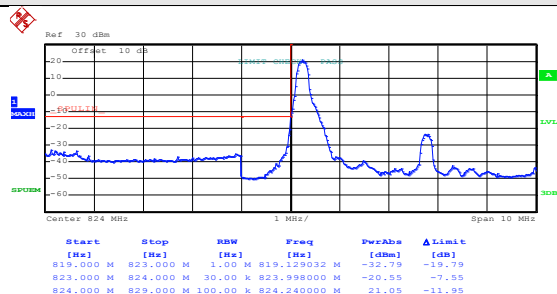
Lowest channel



Date: 29.NOV.2015 03:37:37

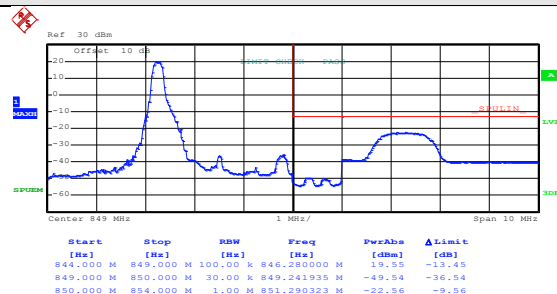
Highest channel

Test Mode:	LTE band 5(16QAM RB Size 1& RB Offset 0)
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Date: 29.NOV.2015 03:34:36

Lowest channel

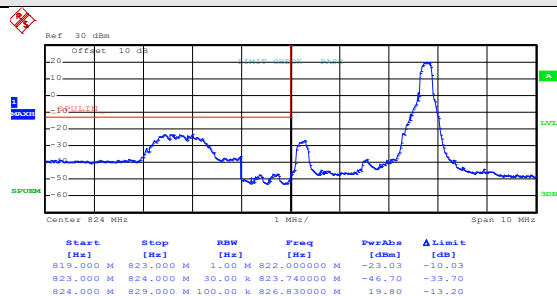


Date: 29.NOV.2015 03:36:14

Highest channel

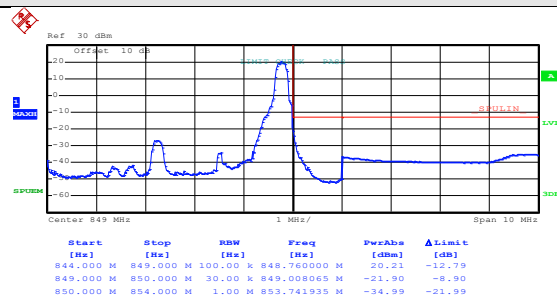
Test Mode:

LTE band 5(16QAM RB Size 1& RB Offset 14)



Date: 29.NOV.2015 03:34:58

Lowest channel

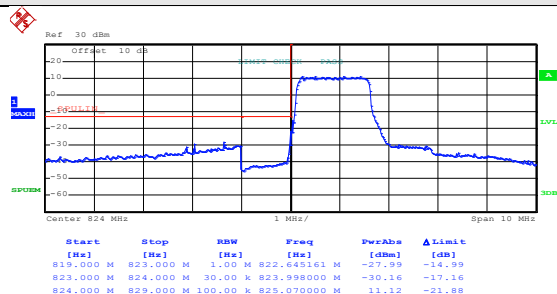


Date: 29.NOV.2015 03:36:54

Highest channel

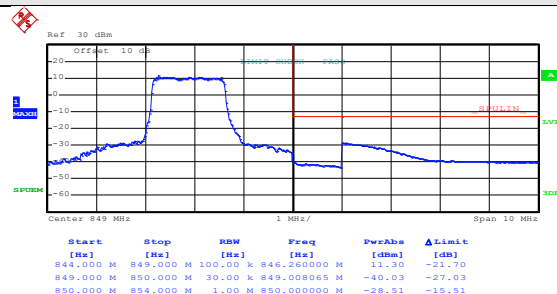
Test Mode:

LTE band 5(16QAM RB Size 8& RB Offset 0)



Date: 29.NOV.2015 03:35:13

Lowest channel

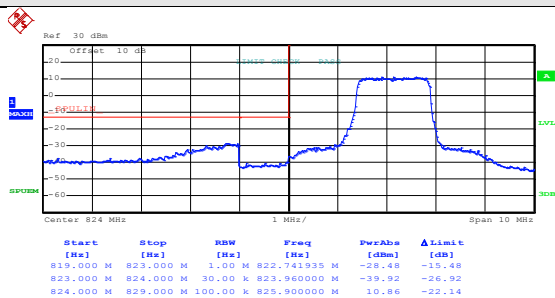


Date: 29.NOV.2015 03:37:10

Highest channel

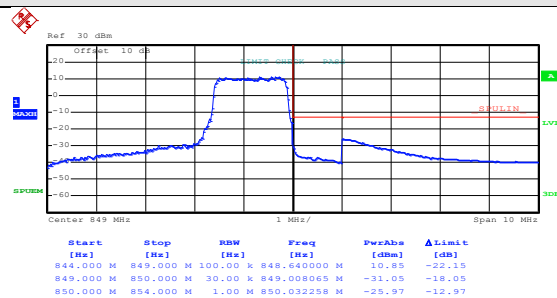
Test Mode:

LTE band 5(16QAM RB Size 8& RB Offset 7)



Date: 29.NOV.2015 03:35:30

Lowest channel

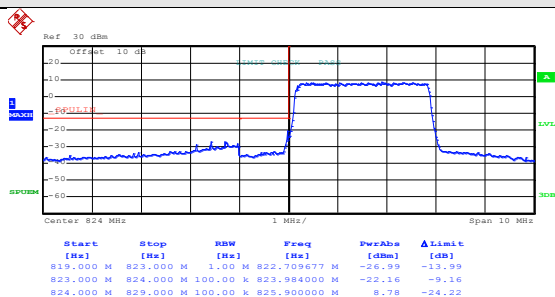


Date: 29.NOV.2015 03:37:25

Highest channel

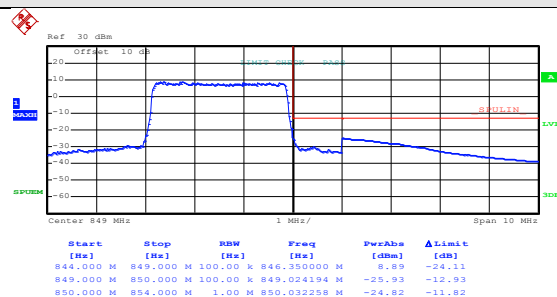
Test Mode:

LTE band 5(16QAM RB Size 15& RB Offset 0)



Date: 29.NOV.2015 03:35:46

Lowest channel

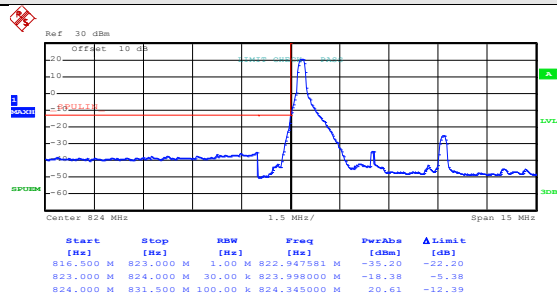


Date: 29.NOV.2015 03:37:43

Highest channel

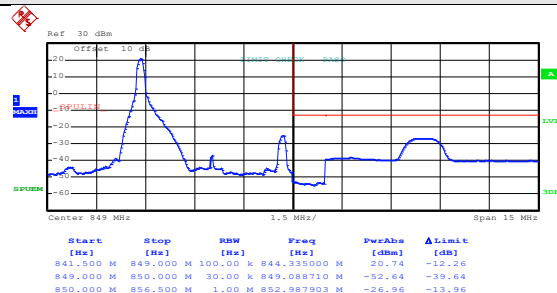
5MHz:

Test Mode:	LTE band 5(QPSK RB Size 1& RB Offset 0)
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Date: 29.NOV.2015 03:38:22

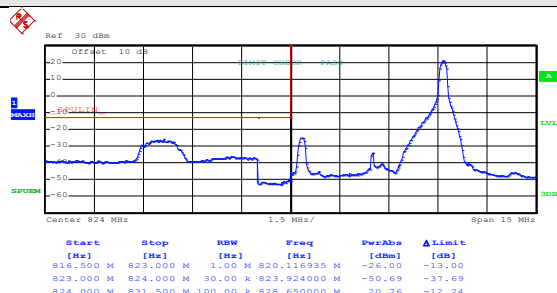
Lowest channel



Date: 29.NOV.2015 03:40:23

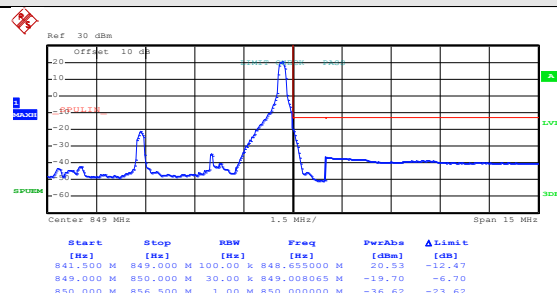
Highest channel

Test Mode:	LTE band 5(QPSK RB Size 1 & RB Offset 24)
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Date: 29.NOV.2015 03:38:37

Lowest channel

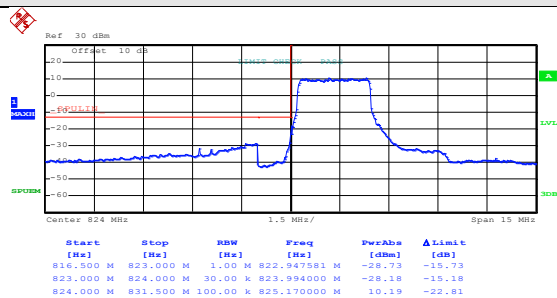


Date: 29.NOV.2015 03:40:37

Highest channel

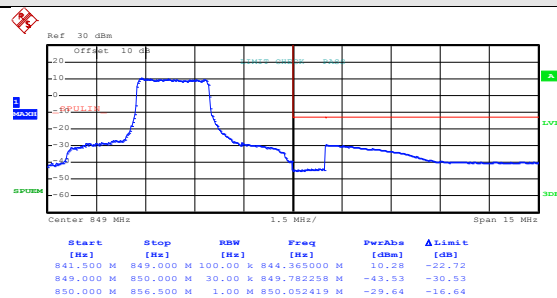
Test Mode:

LTE band 5(QPSK RB Size 12& RB Offset 0)



Date: 29.NOV.2015 03:38:53

Lowest channel

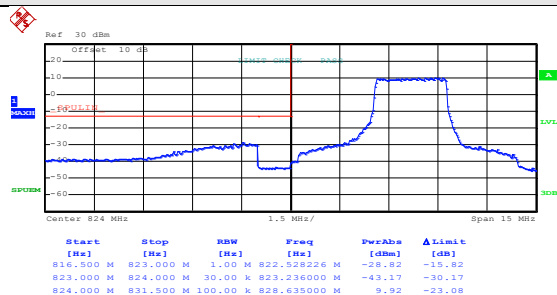


Date: 29.NOV.2015 03:40:52

Highest channel

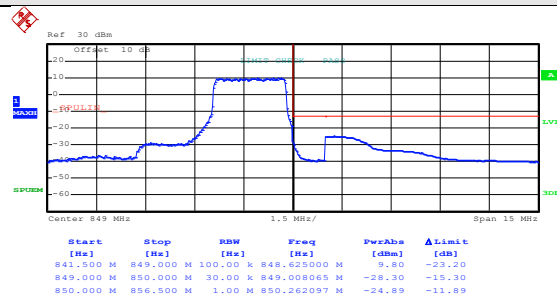
Test Mode:

LTE band 5(QPSK RB Size 12& RB Offset 11)



Date: 29.NOV.2015 03:39:35

Lowest channel

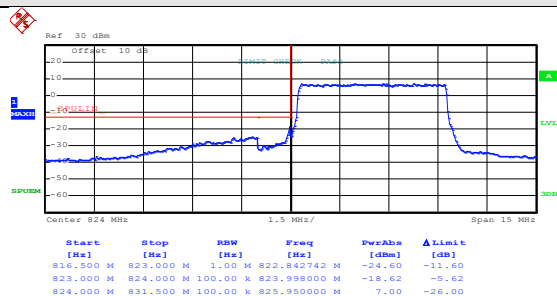


Date: 29.NOV.2015 03:41:09

Highest channel

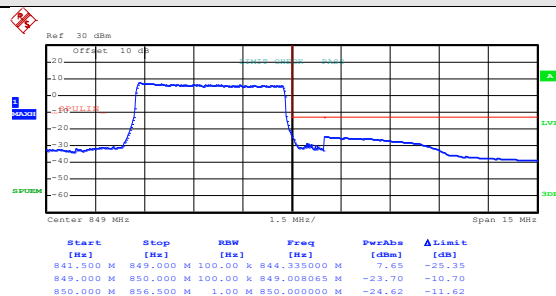
Test Mode:

LTE band 5(QPSK RB Size 25& RB Offset 0)



Date: 29.NOV.2015 03:39:58

Lowest channel

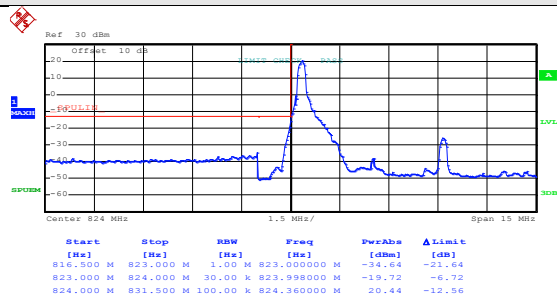


Date: 29.NOV.2015 03:41:31

Highest channel

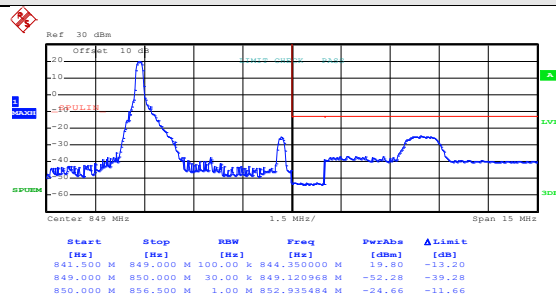
Test Mode:

LTE band 5(16QAM RB Size 1 & RB Offset 0)



Date: 29.NOV.2015 03:38:28

Lowest channel

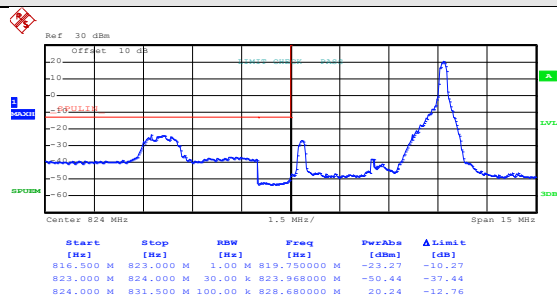


Date: 29.NOV.2015 03:40:30

Highest channel

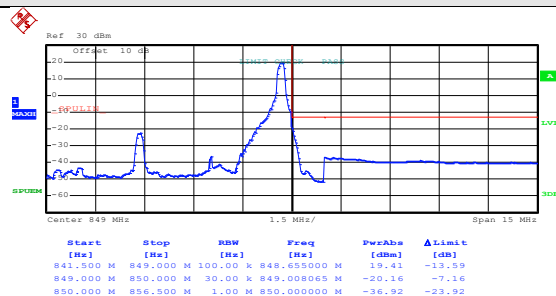
Test Mode:

LTE band 5(16QAM RB Size 1 & RB Offset 24)



Date: 29.NOV.2015 03:38:43

Lowest channel

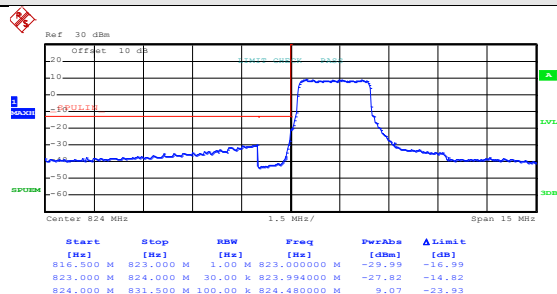


Date: 29.NOV.2015 03:40:44

Highest channel

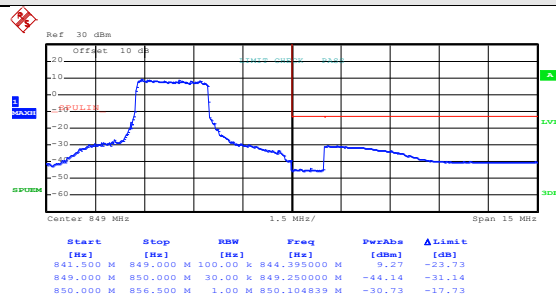
Test Mode:

LTE band 5(16QAM RB Size 12& RB Offset 0)



Date: 29.NOV.2015 03:39:26

Lowest channel

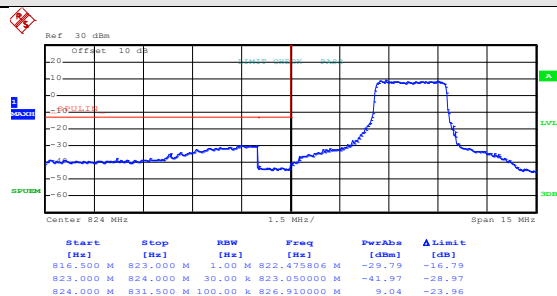


Date: 29.NOV.2015 03:40:59

Highest channel

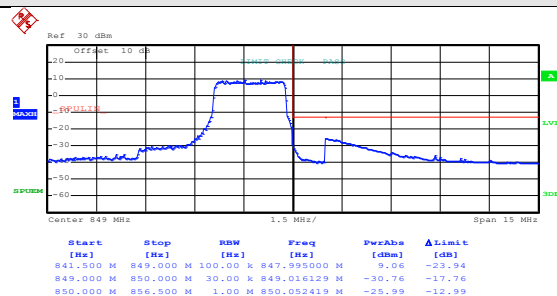
Test Mode:

LTE band 5(16QAM RB Size 12& RB Offset 11)



Date: 29.NOV.2015 03:39:42

Lowest channel

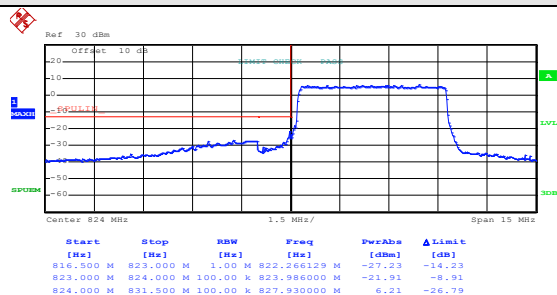


Date: 29.NOV.2015 03:41:16

Highest channel

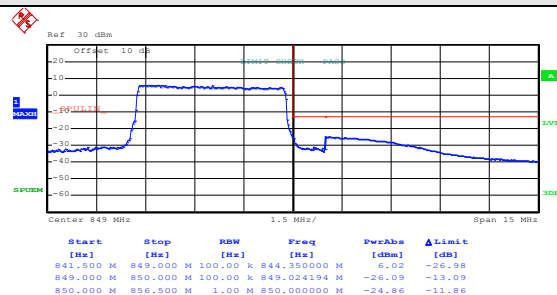
Test Mode:

LTE band 5(16QAM RB Size 25& RB Offset 0)



Date: 29.NOV.2015 03:40:04

Lowest channel

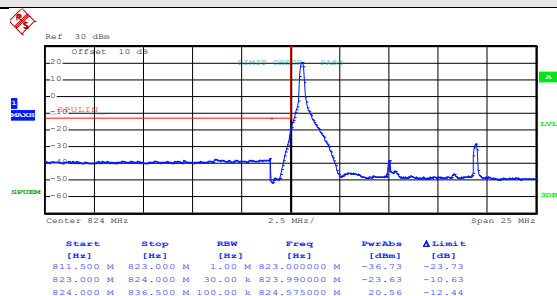


Date: 29.NOV.2015 03:41:36

Highest channel

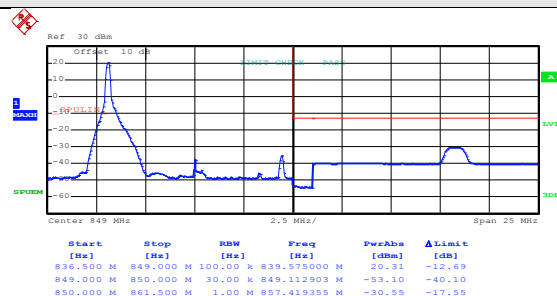
10MHz:

Test Mode:	LTE band 5(QPSK RB Size 1& RB Offset 0)
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Date: 29.NOV.2015 03:42:11

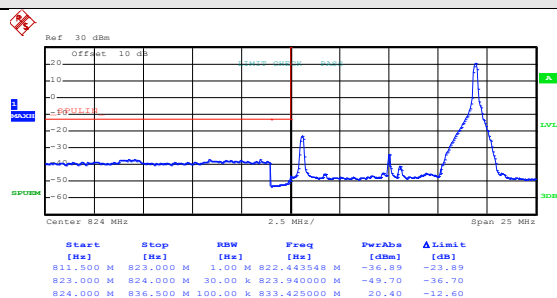
Lowest channel



Date: 29.NOV.2015 03:43:56

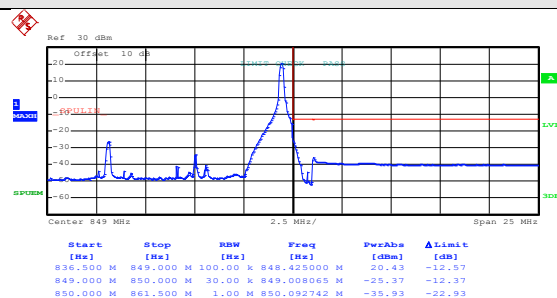
Highest channel

Test Mode:	LTE band 5(QPSK RB Size 1 & RB Offset 49)
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Date: 29.NOV.2015 03:42:28

Lowest channel

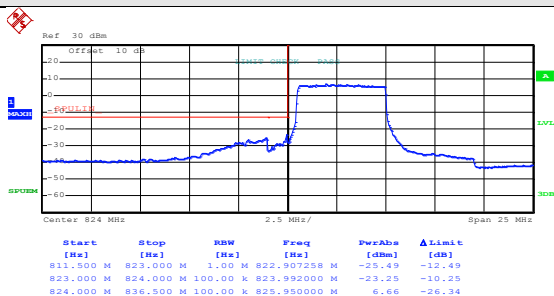


Date: 29.NOV.2015 03:44:10

Highest channel

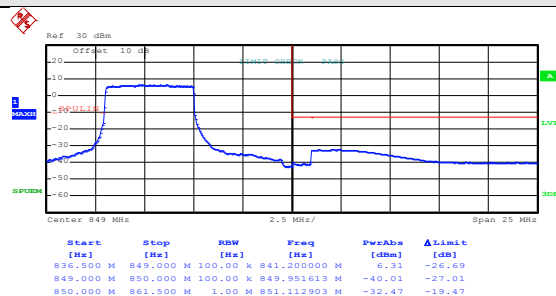
Test Mode:

LTE band 5(QPSK RB Size 25& RB Offset 0)



Date: 29.NOV.2015 03:42:48

Lowest channel

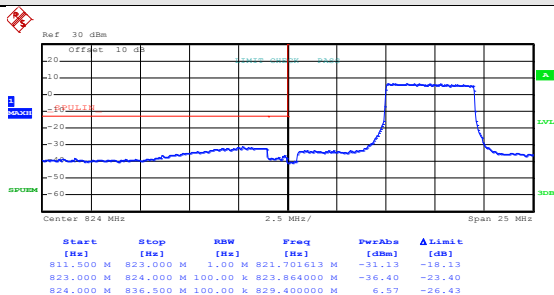


Date: 29.NOV.2015 03:44:29

Highest channel

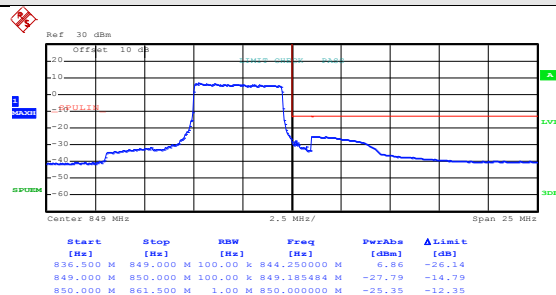
Test Mode:

LTE band 5(QPSK RB Size 25& RB Offset 24)



Date: 29.NOV.2015 03:43:04

Lowest channel

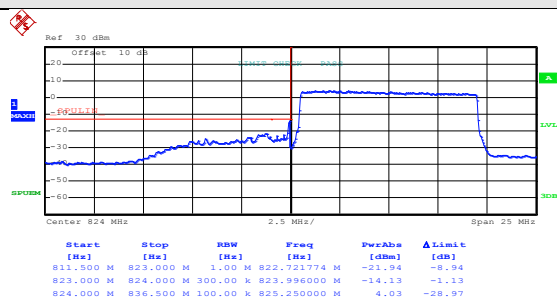


Date: 29.NOV.2015 03:44:43

Highest channel

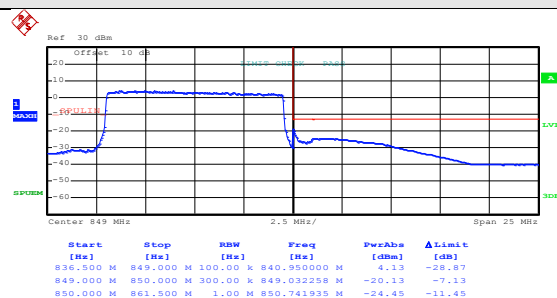
Test Mode:

LTE band 5(QPSK RB Size 50& RB Offset 0)



Date: 29.NOV.2015 03:43:23

Lowest channel

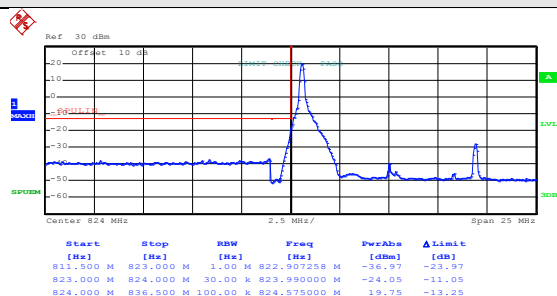


Date: 29.NOV.2015 03:45:13

Highest channel

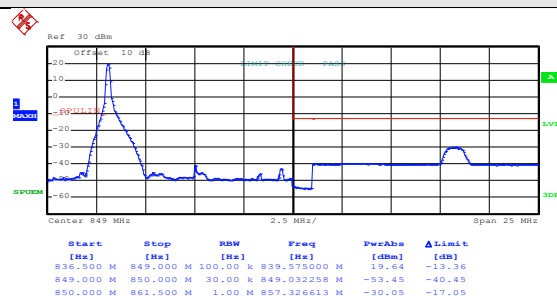
Test Mode:

LTE band 5(16QAM RB Size 1& RB Offset 0)



Date: 29.NOV.2015 03:42:19

Lowest channel

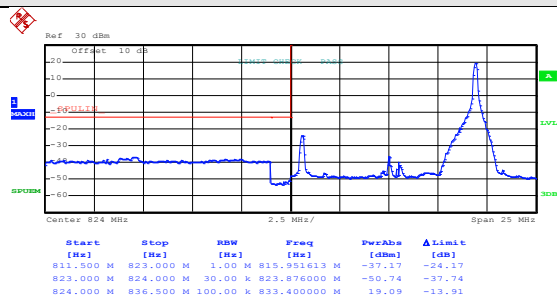


Date: 29.NOV.2015 03:44:02

Highest channel

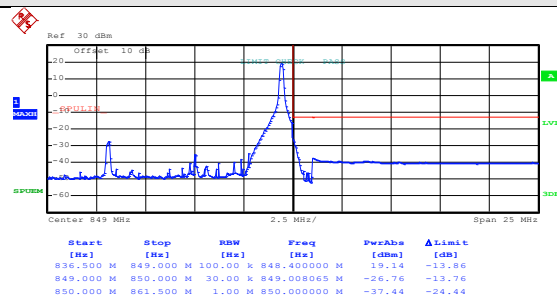
Test Mode:

LTE band 5(16QAM RB Size 1& RB Offset 49)



Date: 29.NOV.2015 03:42:35

Lowest channel

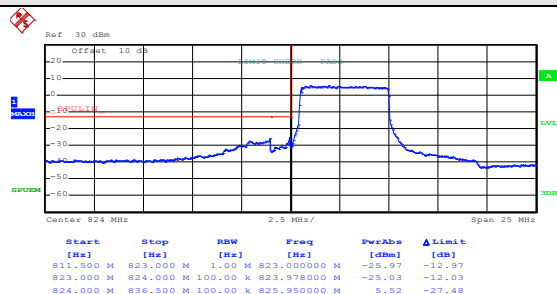


Date: 29.NOV.2015 03:44:16

Highest channel

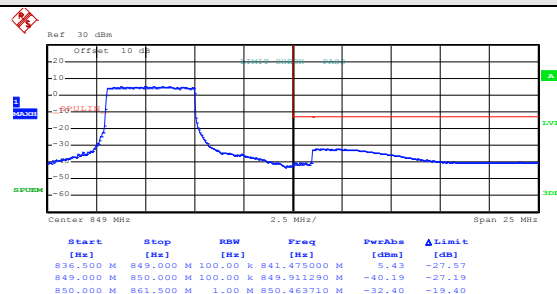
Test Mode:

LTE band 5(16QAM RB Size 25& RB Offset 0)



Date: 29.NOV.2015 03:42:55

Lowest channel

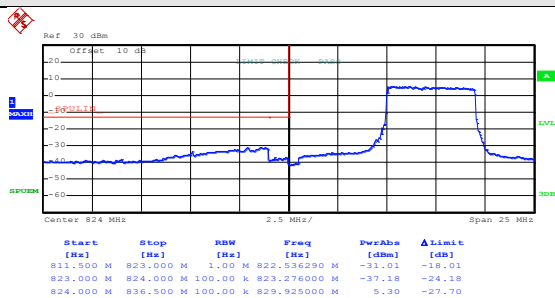


Date: 29.NOV.2015 03:44:35

Highest channel

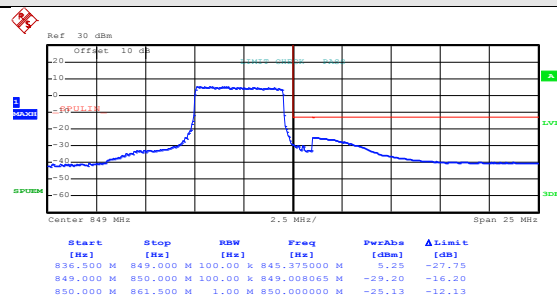
Test Mode:

LTE band 5(16QAM RB Size 25& RB Offset 24)



Date: 29.NOV.2015 03:43:11

Lowest channel

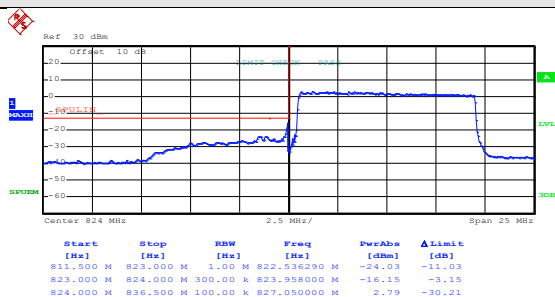


Date: 29.NOV.2015 03:44:50

Highest channel

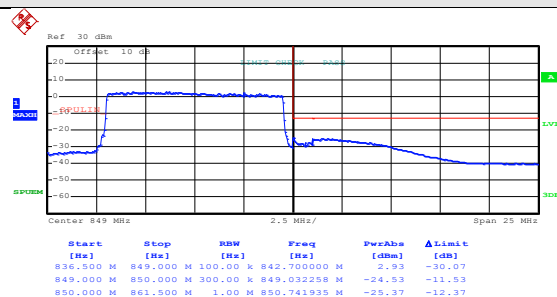
Test Mode:

LTE band 5(16QAM RB Size 50& RB Offset 0)



Date: 29.NOV.2015 03:43:29

Lowest channel



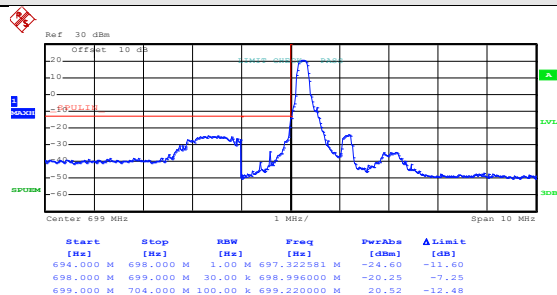
Date: 29.NOV.2015 03:45:18

Highest channel

LTE band 12 part:

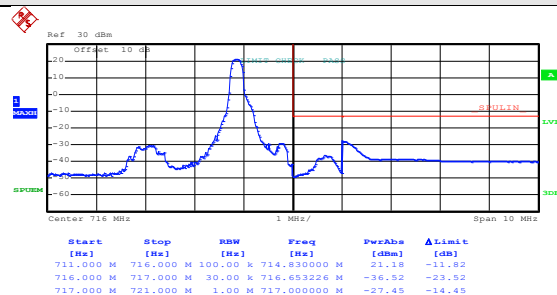
1.4MHz:

Test Mode:	LTE band 12 (QPSK RB Size 1& RB Offset 0)
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Date: 29.NOV.2015 03:57:32

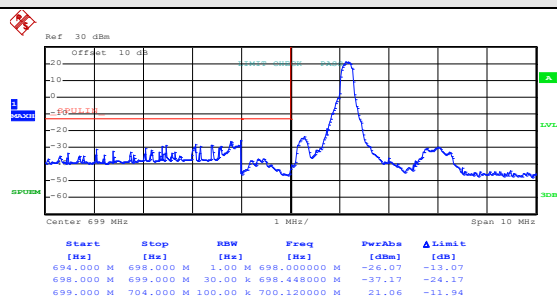
Lowest channel



Date: 29.NOV.2015 04:02:03

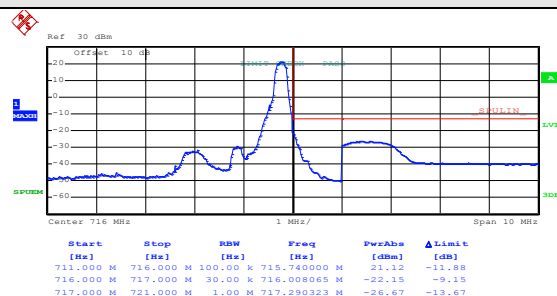
Highest channel

Test Mode:	LTE band 12 (QPSK RB Size 1& RB Offset 5)
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Date: 29.NOV.2015 03:57:59

Lowest channel

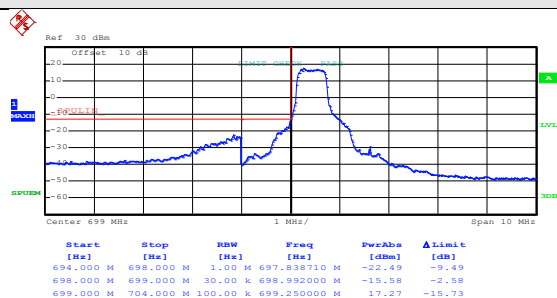


Date: 29.NOV.2015 04:02:19

Highest channel

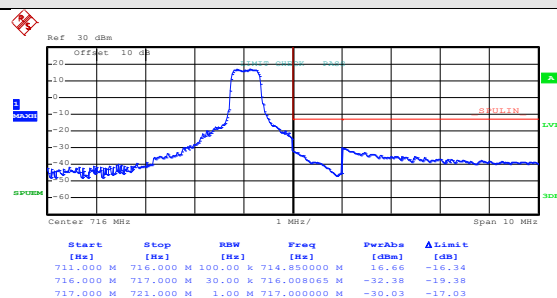
Test Mode:

LTE band 12 (QPSK RB Size 3& RB Offset 0)



Date: 29.NOV.2015 03:58:14

Lowest channel

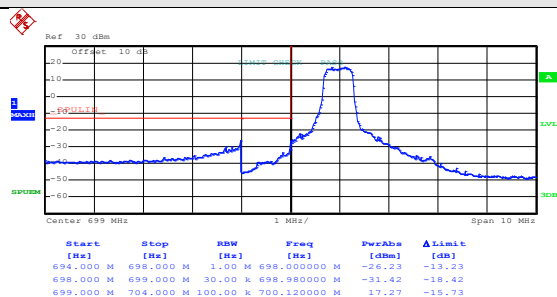


Date: 29.NOV.2015 04:02:38

Highest channel

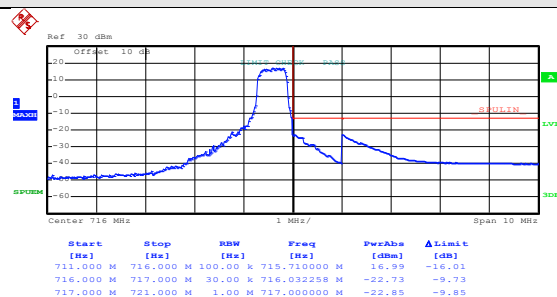
Test Mode:

LTE band 12 (QPSK RB Size 3& RB Offset 2)



Date: 29.NOV.2015 04:01:23

Lowest channel

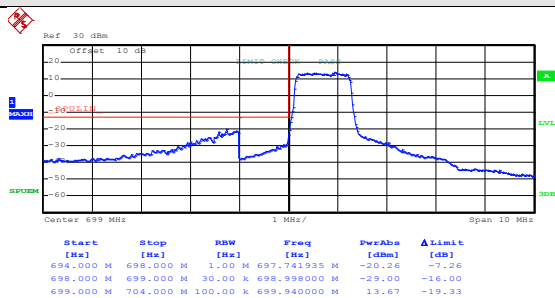


Date: 29.NOV.2015 04:02:54

Highest channel

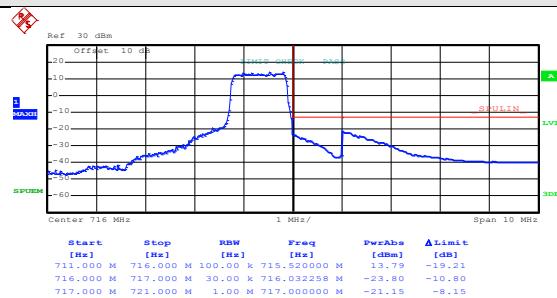
Test Mode:

LTE band 12 (QPSK RB Size 6& RB Offset 0)



Date: 29.NOV.2015 04:01:38

Lowest channel

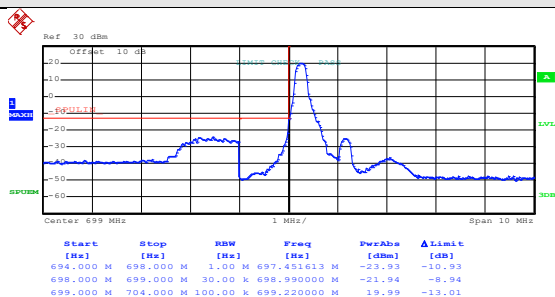


Date: 29.NOV.2015 04:03:07

Highest channel

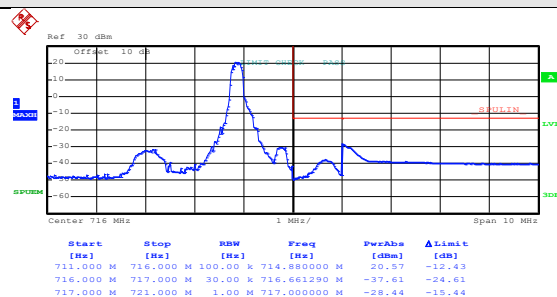
Test Mode:

LTE band 12 (16QAM RB Size 1& RB Offset 0)



Date: 29.NOV.2015 03:57:46

Lowest channel

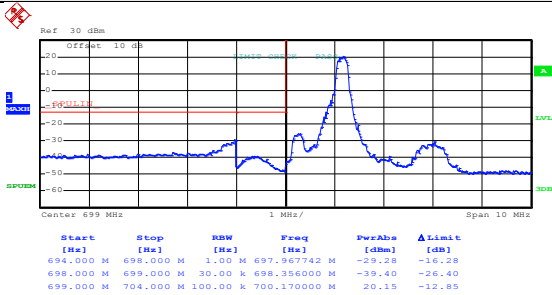


Date: 29.NOV.2015 04:02:09

Highest channel

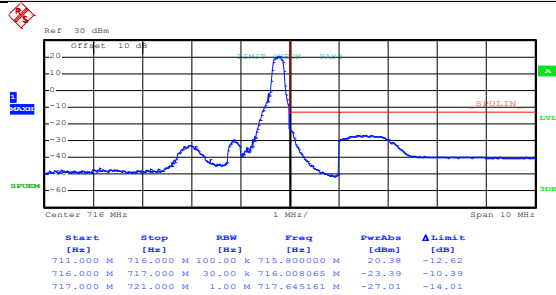
Test Mode:

LTE band 12 (16QAM RB Size 1& RB Offset 5)



Date: 29.NOV.2015 03:58:05

Lowest channel

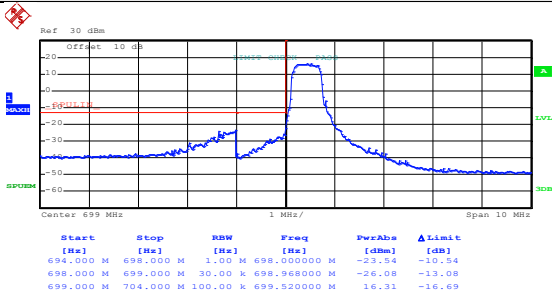


Date: 29.NOV.2015 04:02:26

Highest channel

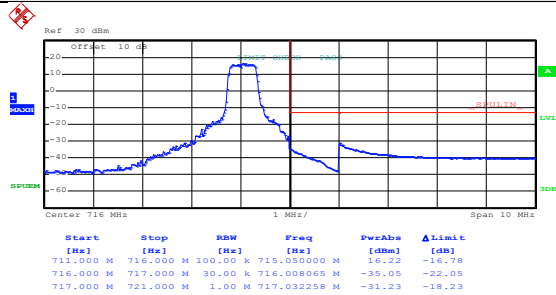
Test Mode:

LTE band 12 (16QAM RB Size 3& RB Offset 0)



Date: 29.NOV.2015 04:01:14

Lowest channel

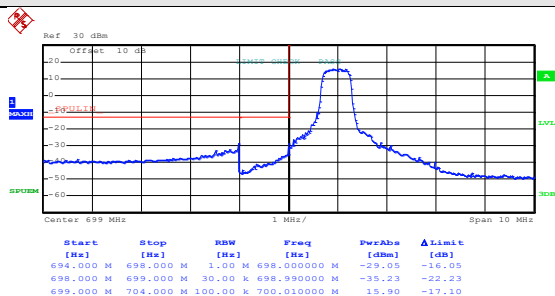


Date: 29.NOV.2015 04:02:45

Highest channel

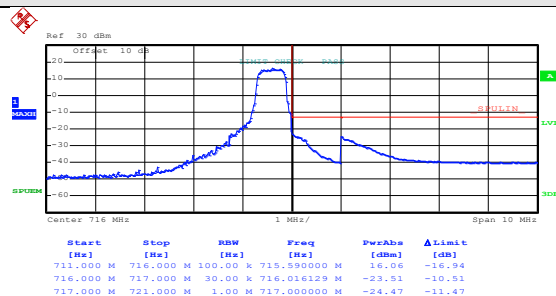
Test Mode:

LTE band 12 (16QAM RB Size 3& RB Offset 2)



Date: 29.NOV.2015 04:01:29

Lowest channel

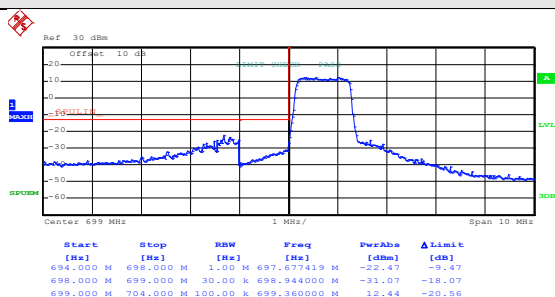


Date: 29.NOV.2015 04:03:00

Highest channel

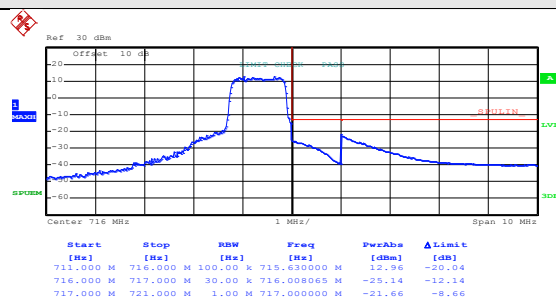
Test Mode:

LTE band 12 (16QAM RB Size 6& RB Offset 0)



Date: 29.NOV.2015 04:01:43

Lowest channel



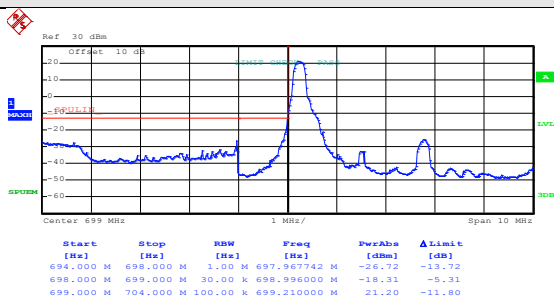
Date: 29.NOV.2015 04:03:13

Highest channel

3MHz:

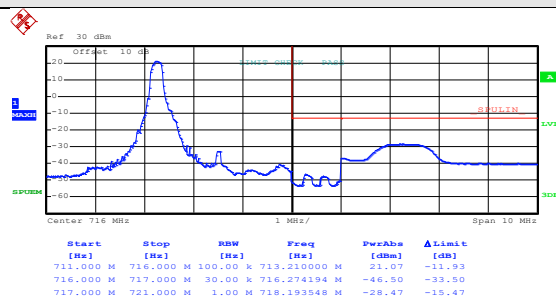
Test Mode:

LTE band 12 (QPSK RB Size 1& RB Offset 0)



Date: 29.NOV.2015 04:04:47

Lowest channel

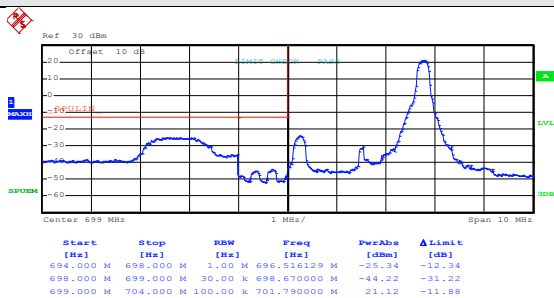


Date: 29.NOV.2015 04:06:40

Highest channel

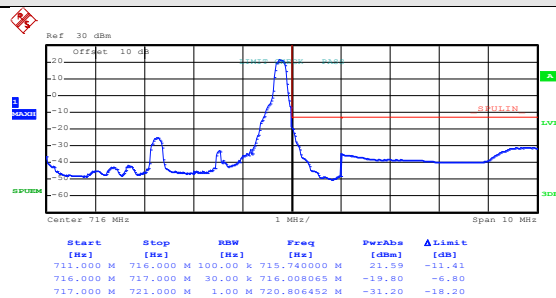
Test Mode:

LTE band 12 (QPSK RB Size 1& RB Offset 14)



Date: 29.NOV.2015 04:05:01

Lowest channel

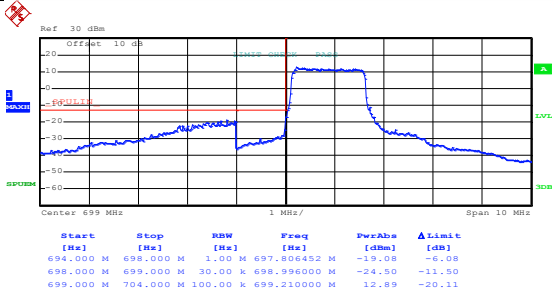


Date: 29.NOV.2015 04:07:03

Highest channel

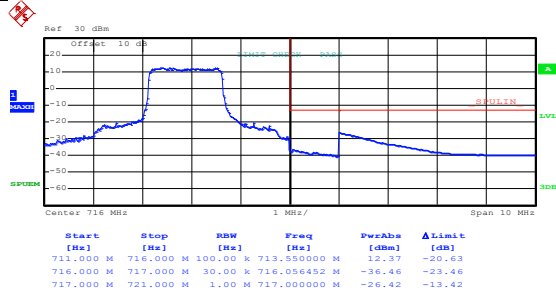
Test Mode:

LTE band 12 (QPSK RB Size 8& RB Offset 0)



Date: 29.NOV.2015 04:05:17

Lowest channel

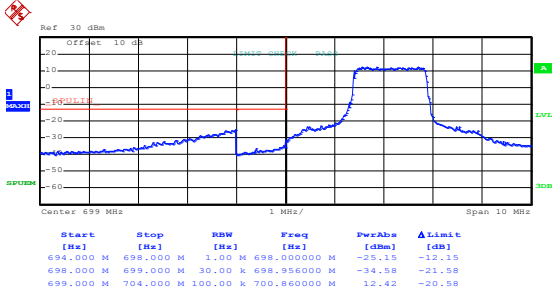


Date: 29.NOV.2015 04:07:19

Highest channel

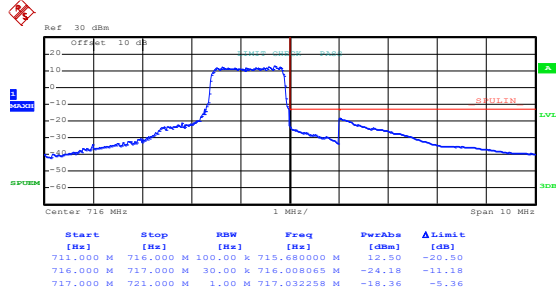
Test Mode:

LTE band 12 (QPSK RB Size 8 & RB Offset 7)



Date: 29.NOV.2015 04:05:56

Lowest channel

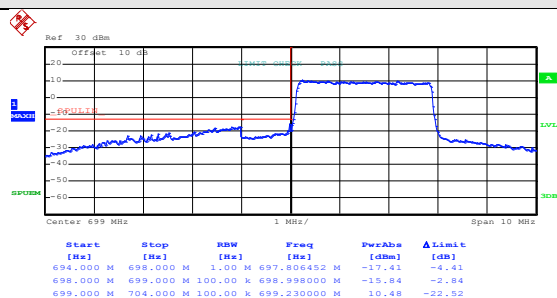


Date: 29.NOV.2015 04:07:34

Highest channel

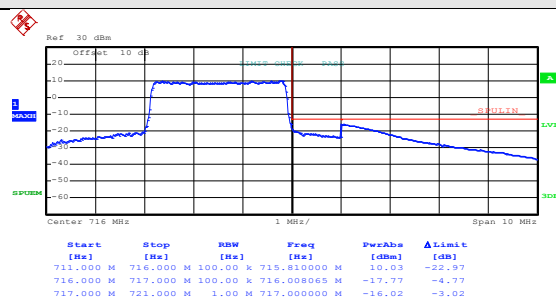
Test Mode:

LTE band 12 (QPSK RB Size 15& RB Offset 0)



Date: 29.NOV.2015 04:06:17

Lowest channel

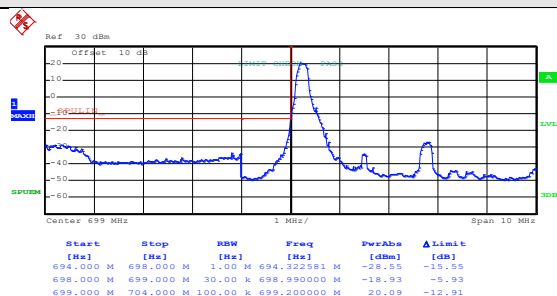


Date: 29.NOV.2015 04:07:54

Highest channel

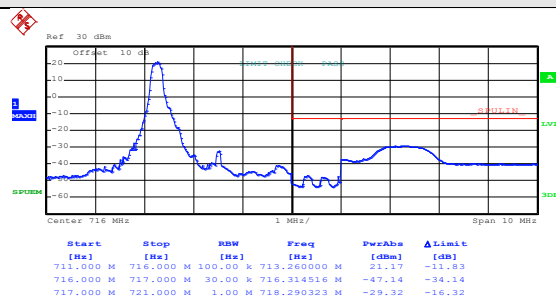
Test Mode:

LTE band 12(16QAM RB Size 1& RB Offset 0)



Date: 29.NOV.2015 04:04:53

Lowest channel

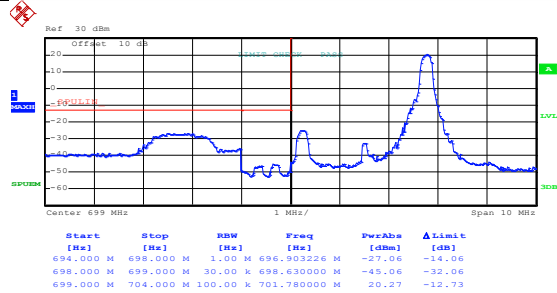


Date: 29.NOV.2015 04:06:54

Highest channel

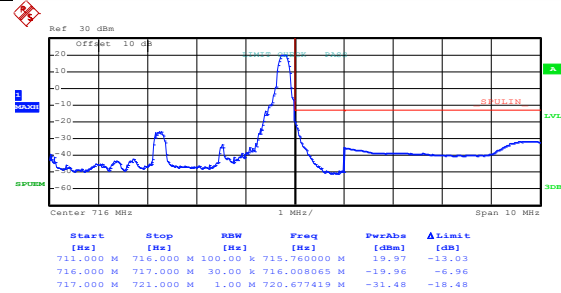
Test Mode:

LTE band 12(16QAM RB Size 1& RB Offset 14)



Date: 29.NOV.2015 04:05:07

Lowest channel

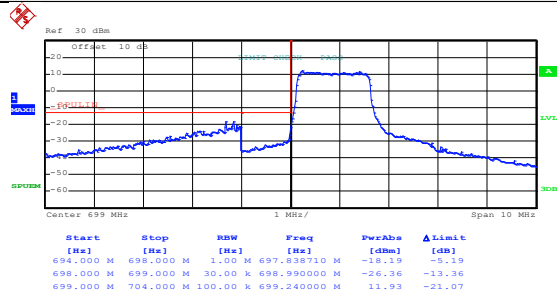


Date: 29.NOV.2015 04:07:09

Highest channel

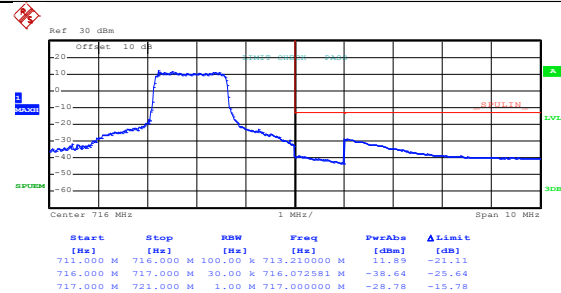
Test Mode:

LTE band 12(16QAM RB Size 8& RB Offset 0)



Date: 29.NOV.2015 04:05:46

Lowest channel

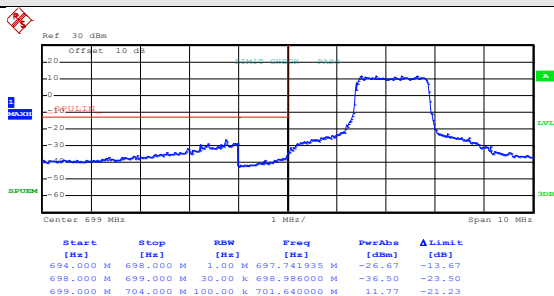


Date: 29.NOV.2015 04:07:25

Highest channel

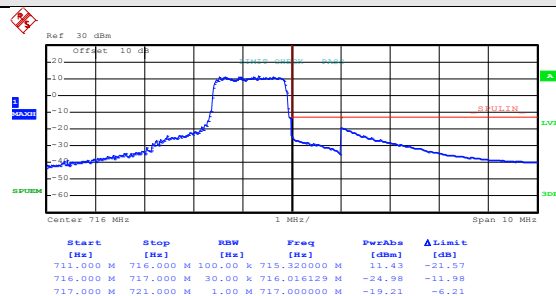
Test Mode:

LTE band 12(16QAM RB Size 8& RB Offset 7)



Date: 29.NOV.2015 04:06:03

Lowest channel

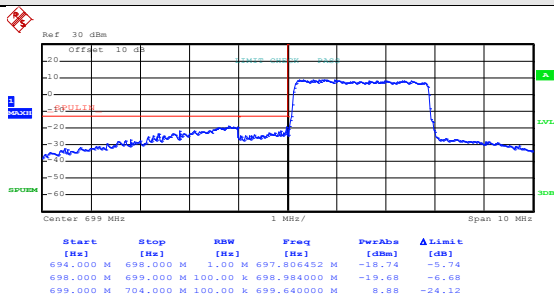


Date: 29.NOV.2015 04:07:40

Highest channel

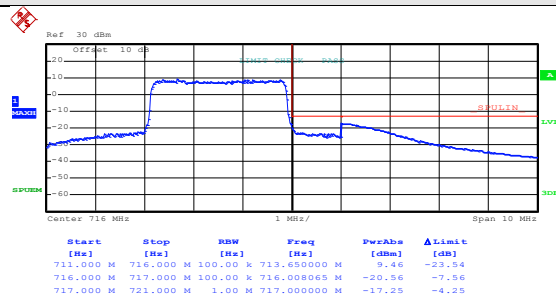
Test Mode:

LTE band 12(16QAM RB Size 15& RB Offset 0)



Date: 29.NOV.2015 04:06:22

Lowest channel



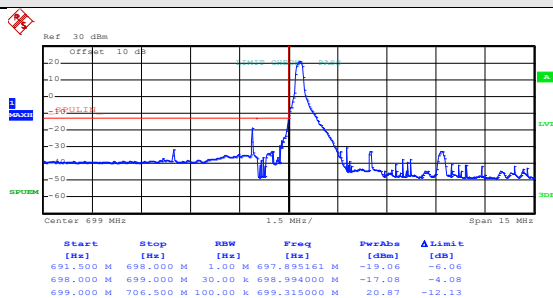
Date: 29.NOV.2015 04:07:59

Highest channel

5MHz:

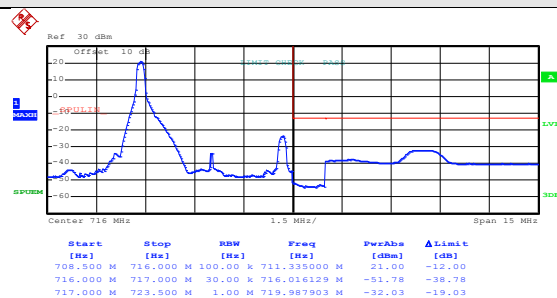
Test Mode:

LTE band 12(QPSK RB Size 1& RB Offset 0)



Date: 29.NOV.2015 04:08:37

Lowest channel

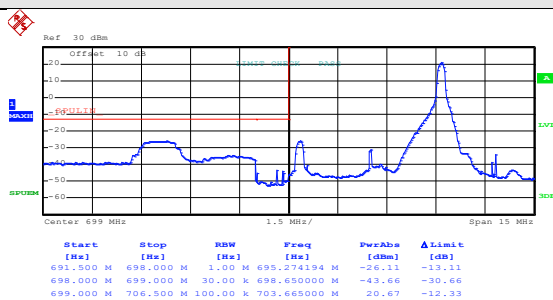


Date: 29.NOV.2015 04:10:19

Highest channel

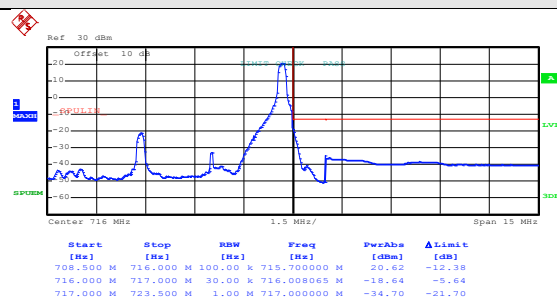
Test Mode:

LTE band 12(QPSK RB Size 1 & RB Offset 24)



Date: 29.NOV.2015 04:08:58

Lowest channel

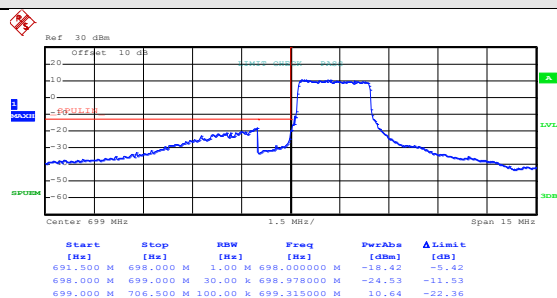


Date: 29.NOV.2015 04:10:33

Highest channel

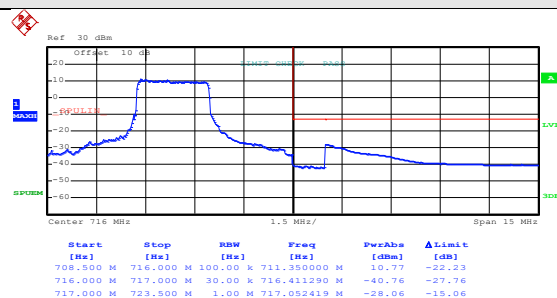
Test Mode:

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



Date: 29.NOV.2015 04:09:16

Lowest channel

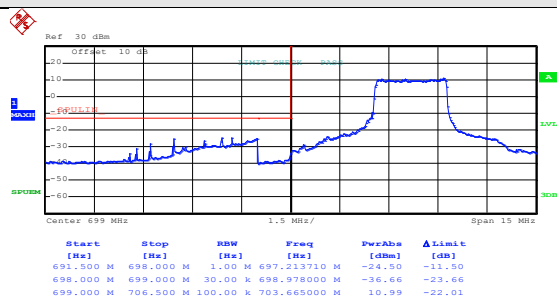


Date: 29.NOV.2015 04:10:52

Highest channel

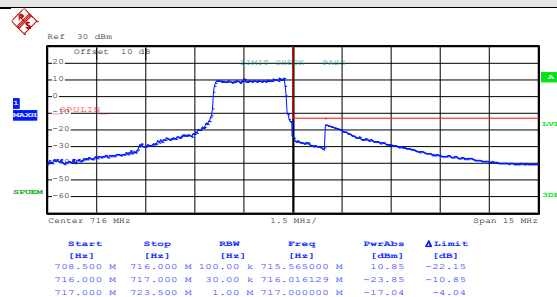
Test Mode:

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



Date: 29.NOV.2015 04:09:32

Lowest channel

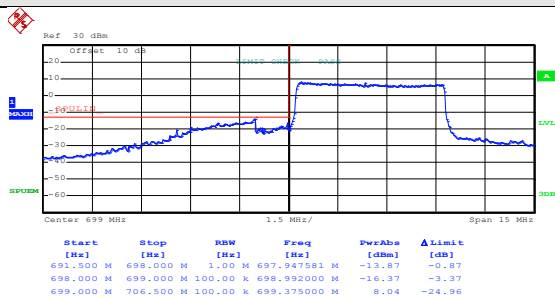


Date: 29.NOV.2015 04:11:07

Highest channel

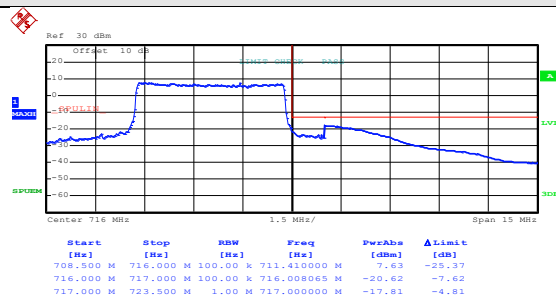
Test Mode:

LTE band 12(QPSK RB Size 25& RB Offset 0)



Date: 29.NOV.2015 04:09:53

Lowest channel

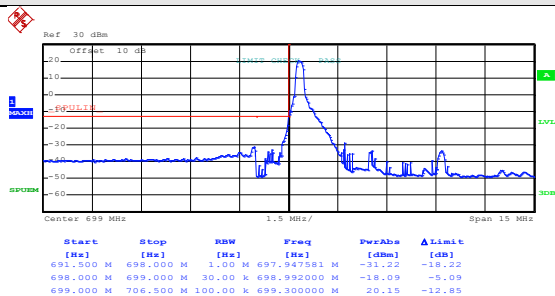


Date: 29.NOV.2015 04:11:26

Highest channel

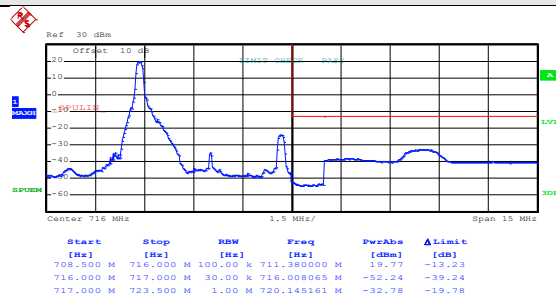
Test Mode:

LTE band 12(16QAM RB Size 1 & RB Offset 0)



Date: 29.NOV.2015 04:08:49

Lowest channel

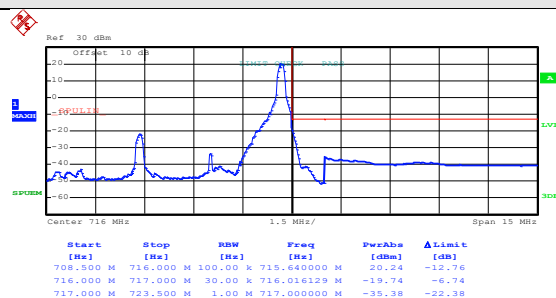
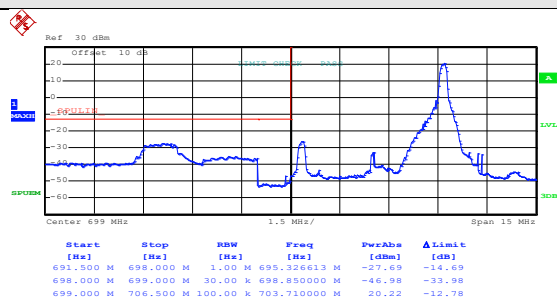


Date: 29.NOV.2015 04:10:24

Highest channel

Test Mode:

LTE band 12(16QAM RB Size 1 & RB Offset 24)



Date: 29.NOV.2015 04:09:05

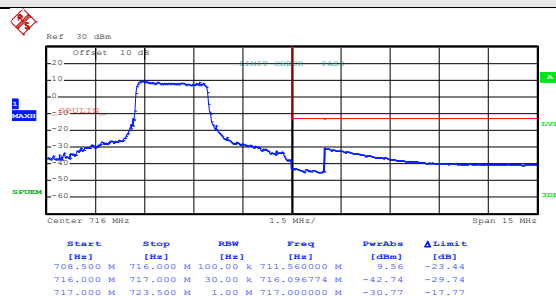
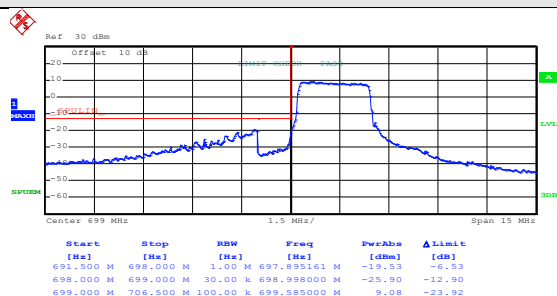
Date: 29.NOV.2015 04:10:40

Lowest channel

Highest channel

Test Mode:

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



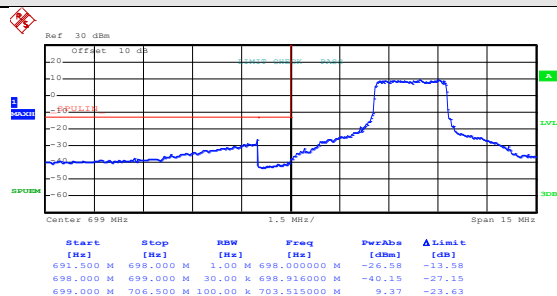
Date: 29.NOV.2015 04:09:22

Date: 29.NOV.2015 04:10:58

Lowest channel

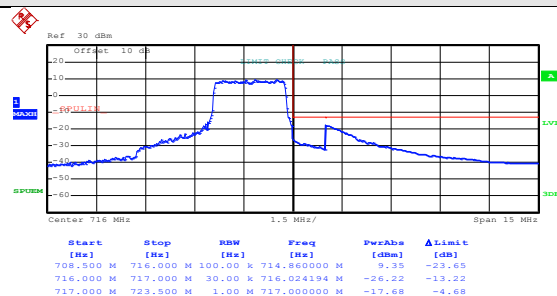
Highest channel

Test Mode:	LTE band 12(16QAM RB Size 12 & RB Offset 11)
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Date: 29.NOV.2015 04:09:40

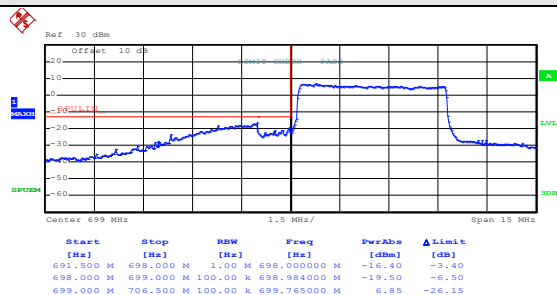
Lowest channel



Date: 29.NOV.2015 04:11:13

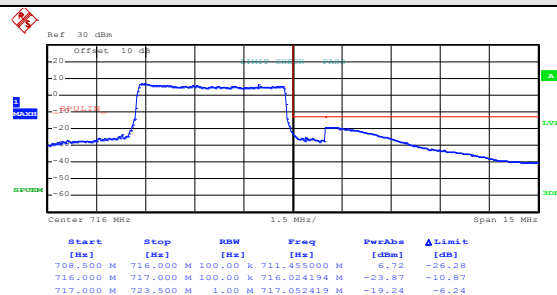
Highest channel

Test Mode:	LTE band 12(16QAM RB Size 25& RB Offset 0)
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Date: 29.NOV.2015 04:09:58

Lowest channel

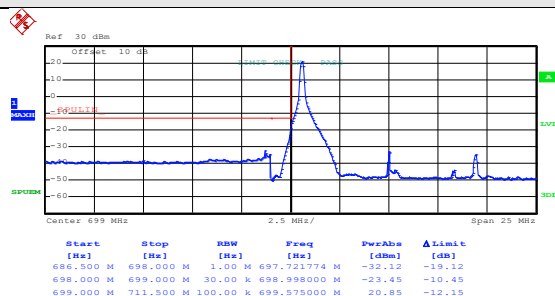


Date: 29.NOV.2015 04:11:31

Highest channel

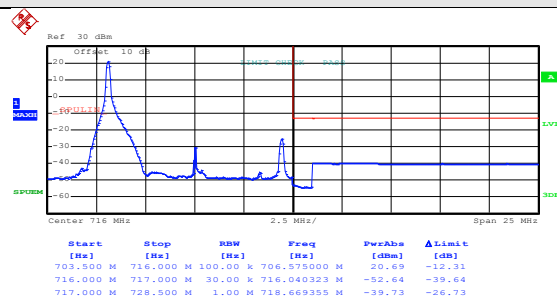
10MHz:

Test Mode:	LTE band 12(QPSK RB Size 1& RB Offset 0)
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Date: 29.NOV.2015 04:12:13

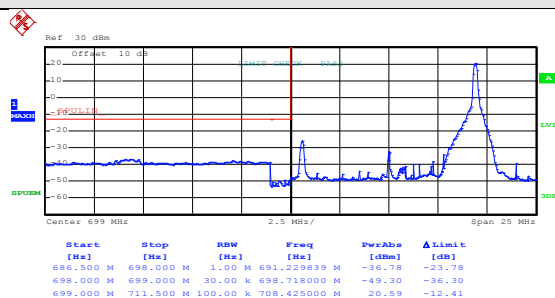
Lowest channel



Date: 29.NOV.2015 04:14:06

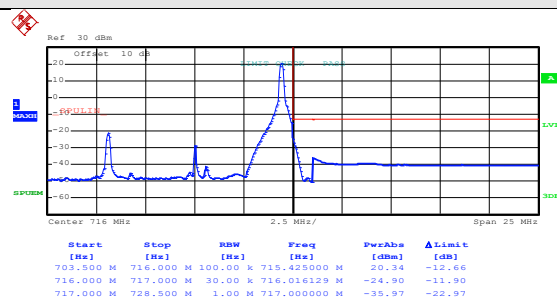
Highest channel

Test Mode:	LTE band 12(QPSK RB Size 1 & RB Offset 49)
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Date: 29.NOV.2015 04:12:31

Lowest channel

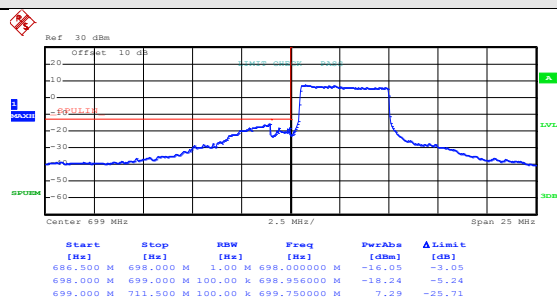


Date: 29.NOV.2015 04:14:22

Highest channel

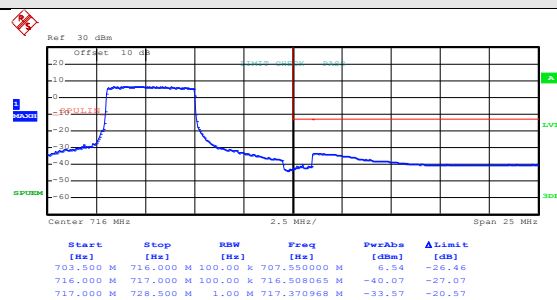
Test Mode:

LTE band 12(QPSK RB Size 25& RB Offset 0)



Date: 29.NOV.2015 04:12:50

Lowest channel

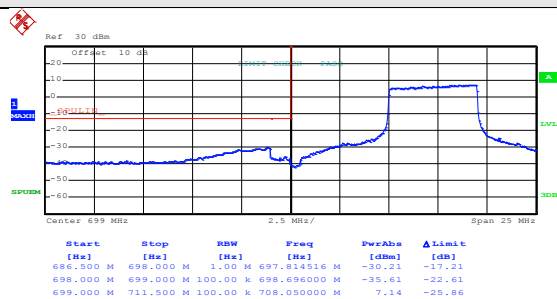


Date: 29.NOV.2015 04:14:44

Highest channel

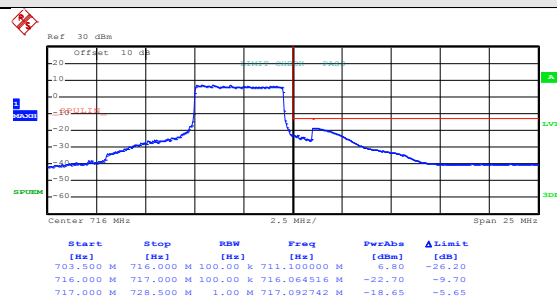
Test Mode:

LTE band 12(QPSK RB Size 25& RB Offset 24)



Date: 29.NOV.2015 04:13:05

Lowest channel

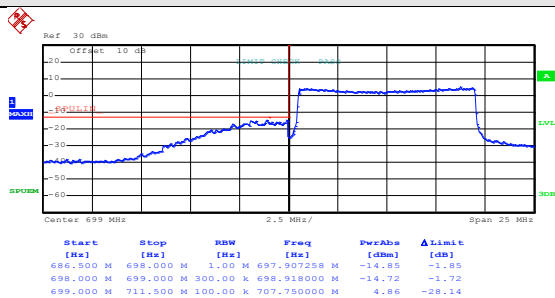


Date: 29.NOV.2015 04:15:03

Highest channel

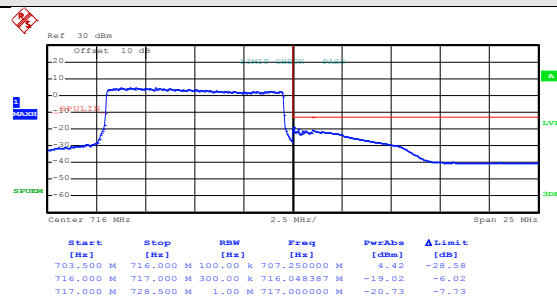
Test Mode:

LTE band 12(QPSK RB Size 50& RB Offset 0)



Date: 29.NOV.2015 04:13:42

Lowest channel

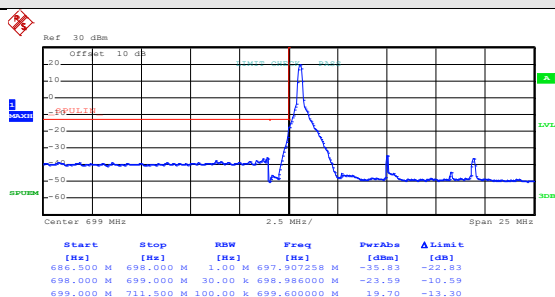


Date: 29.NOV.2015 04:15:26

Highest channel

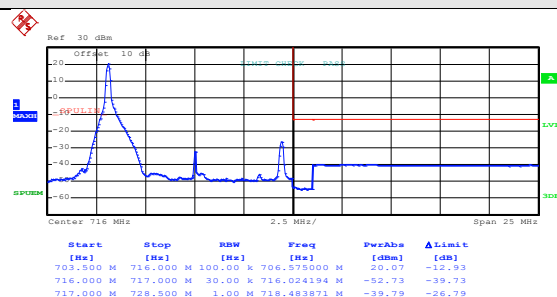
Test Mode:

LTE band 12(16QAM RB Size 1& RB Offset 0)



Date: 29.NOV.2015 04:12:20

Lowest channel

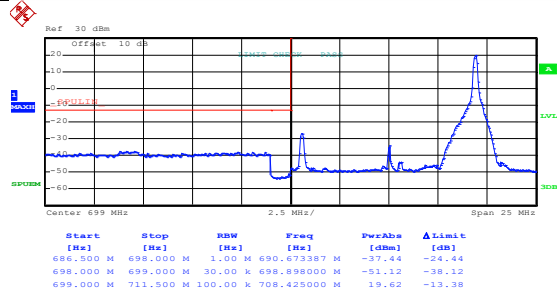


Date: 29.NOV.2015 04:14:12

Highest channel

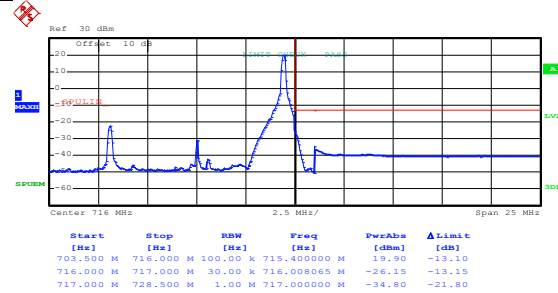
Test Mode:

LTE band 12(16QAM RB Size 1& RB Offset 49)



Date: 29.NOV.2015 04:12:37

Lowest channel

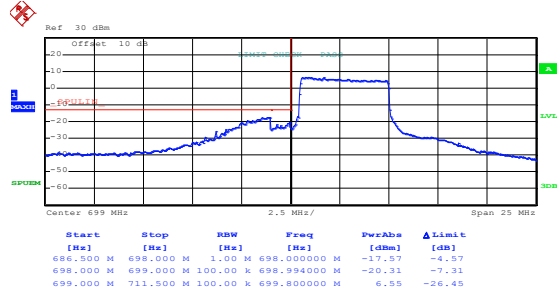


Date: 29.NOV.2015 04:14:29

Highest channel

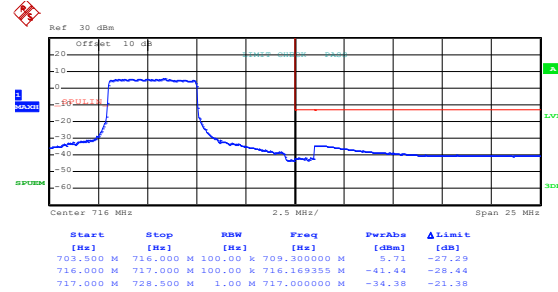
Test Mode:

LTE band 12(16QAM RB Size 25& RB Offset 0)



Date: 29.NOV.2015 04:12:56

Lowest channel

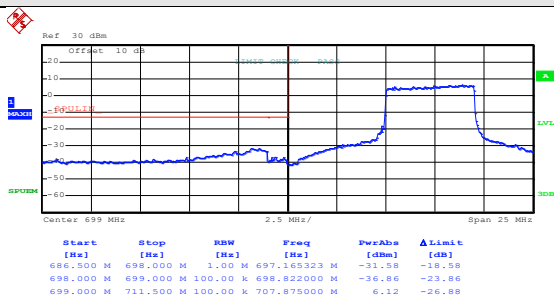


Date: 29.NOV.2015 04:14:50

Highest channel

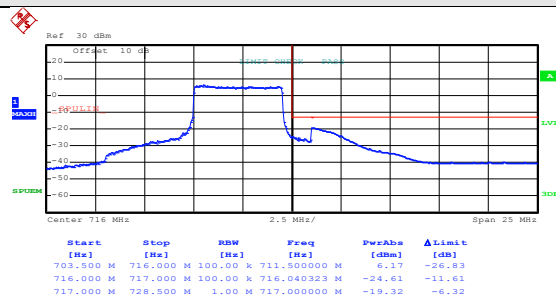
Test Mode:

LTE band 12(16QAM RB Size 25& RB Offset 24)



Date: 29.NOV.2015 04:13:13

Lowest channel

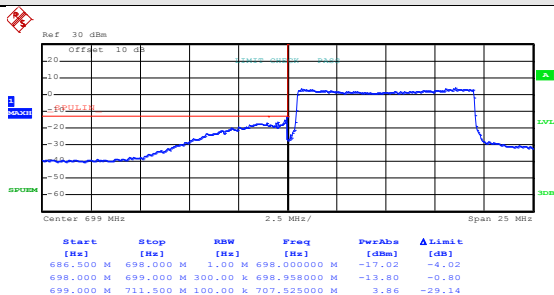


Date: 29.NOV.2015 04:15:12

Highest channel

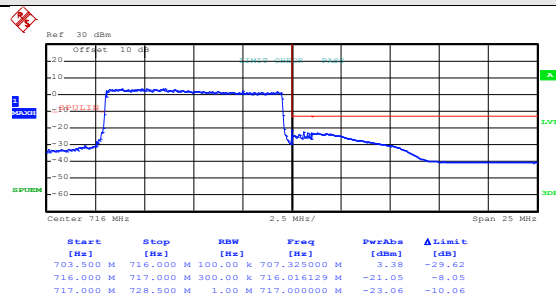
Test Mode:

LTE band 12 (16QAM RB Size 50& RB Offset 0)



Date: 29.NOV.2015 04:13:48

Lowest channel



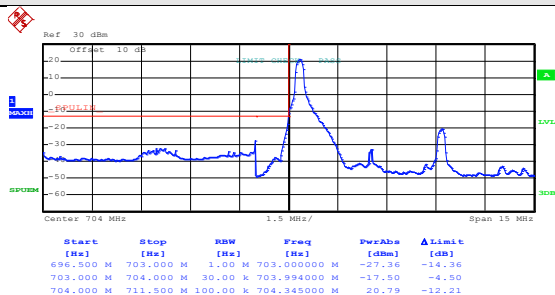
Date: 29.NOV.2015 04:15:31

Highest channel

LTE band 17 part:

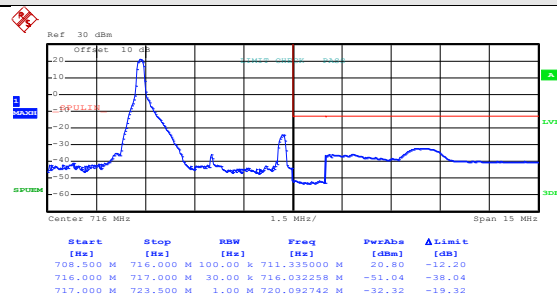
5MHz:

Test Mode:	LTE band 17(QPSK RB Size 1& RB Offset 0)
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Date: 29.NOV.2015 03:46:29

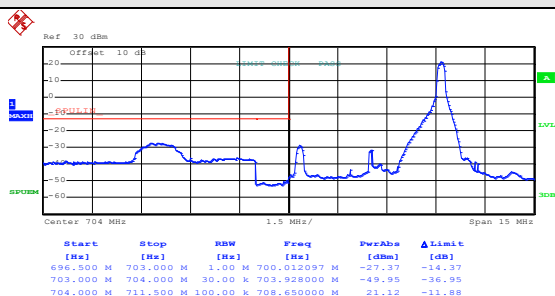
Lowest channel



Date: 29.NOV.2015 03:48:52

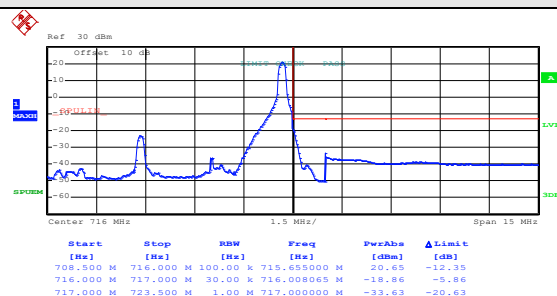
Highest channel

Test Mode:	LTE band 17(QPSK RB Size 1& RB Offset 24)
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Date: 29.NOV.2015 03:47:26

Lowest channel

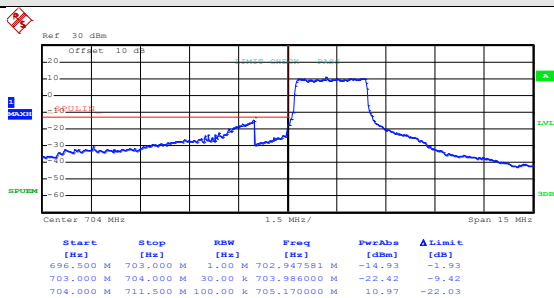


Date: 29.NOV.2015 03:49:07

Highest channel

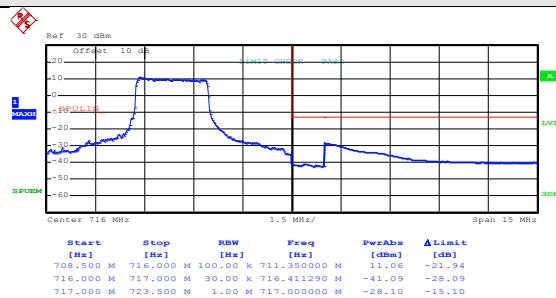
Test Mode:

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



Date: 29.NOV.2015 03:47:47

Lowest channel

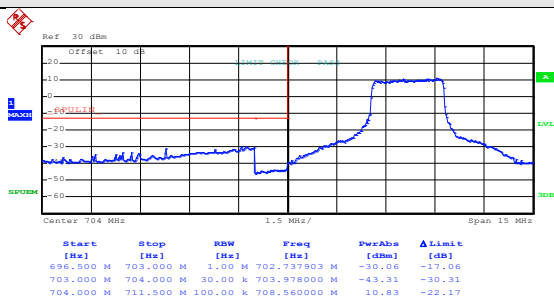


Date: 29.NOV.2015 03:49:25

Highest channel

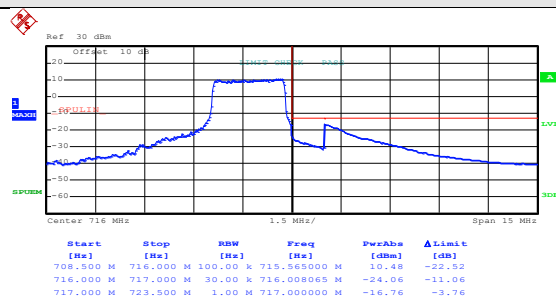
Test Mode:

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



Date: 29.NOV.2015 03:48:05

Lowest channel

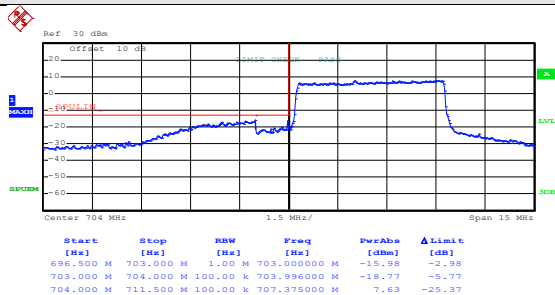


Date: 29.NOV.2015 03:49:41

Highest channel

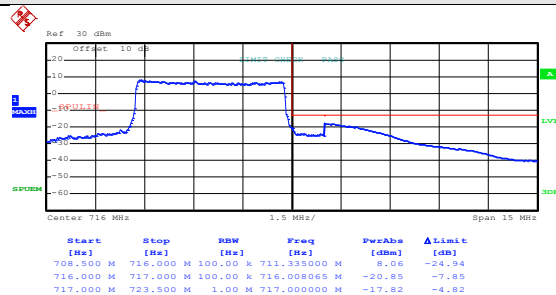
Test Mode:

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



Date: 29.NOV.2015 03:48:25

Lowest channel

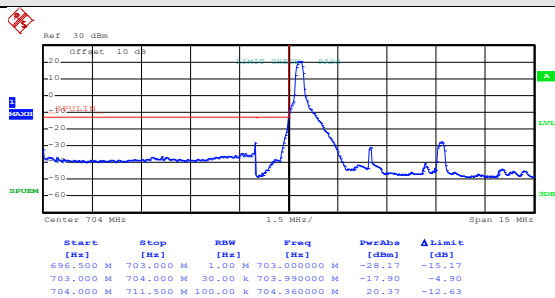


Date: 29.NOV.2015 03:50:02

Highest channel

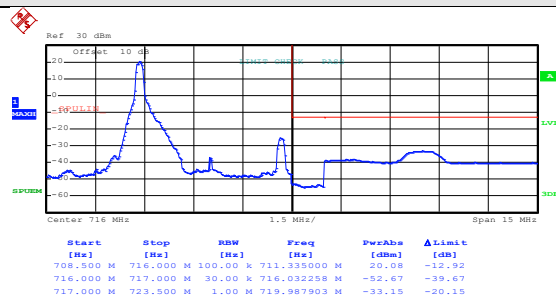
Test Mode:

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



Date: 29.NOV.2015 03:47:14

Lowest channel

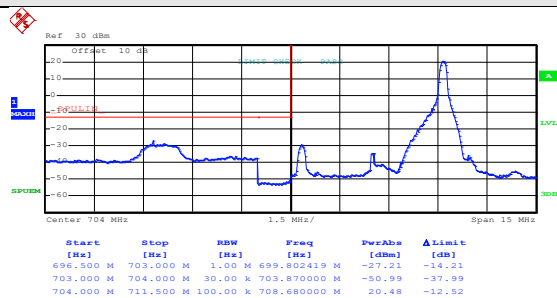


Date: 29.NOV.2015 03:48:58

Highest channel

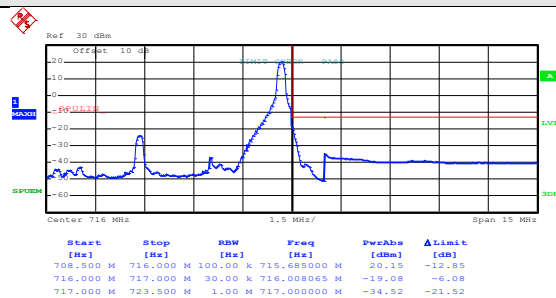
Test Mode:

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



Date: 29.NOV.2015 03:47:35

Lowest channel

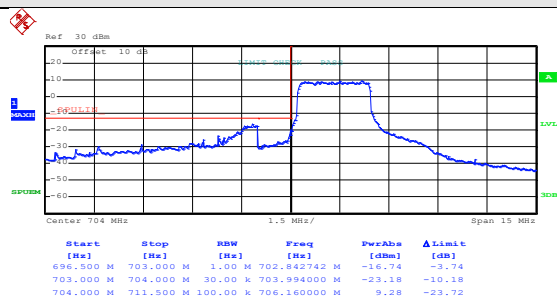


Date: 29.NOV.2015 03:49:15

Highest channel

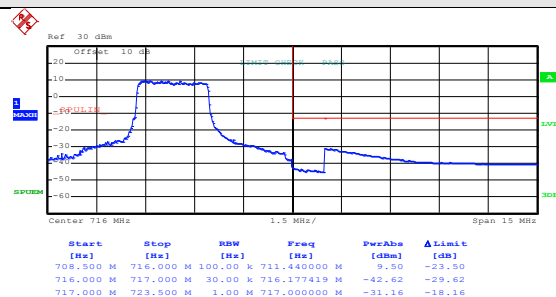
Test Mode:

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



Date: 29.NOV.2015 03:47:55

Lowest channel

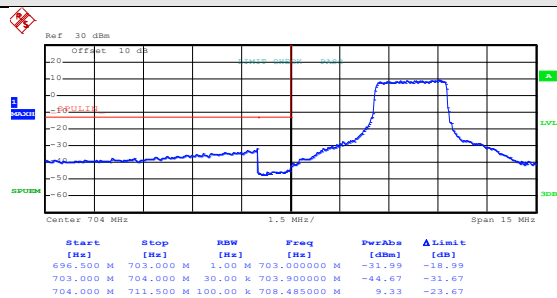


Date: 29.NOV.2015 03:49:32

Highest channel

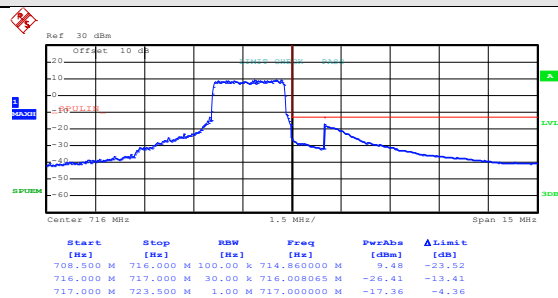
Test Mode:

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



Date: 29.NOV.2015 03:48:13

Lowest channel

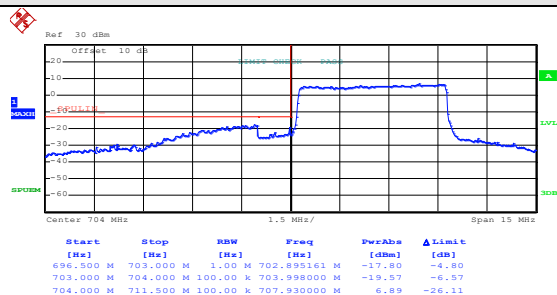


Date: 29.NOV.2015 03:49:48

Highest channel

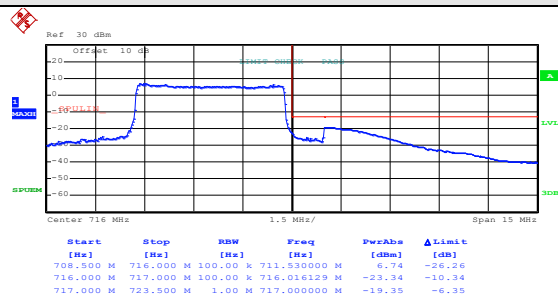
Test Mode:

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



Date: 29.NOV.2015 03:48:31

Lowest channel

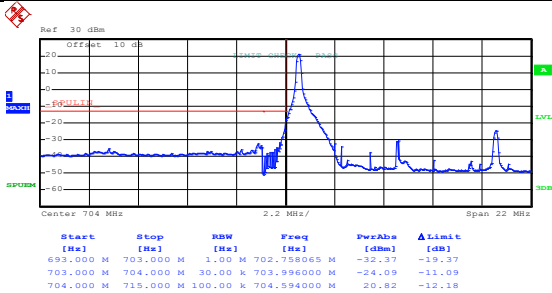


Date: 29.NOV.2015 03:50:08

Highest channel

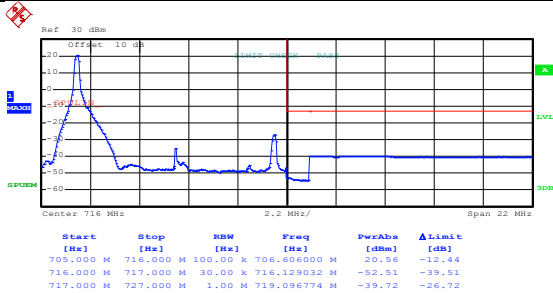
10MHz:

Test Mode:	LTE band 17(QPSK RB Size 1& RB Offset 0)
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Date: 29.NOV.2015 03:50:54

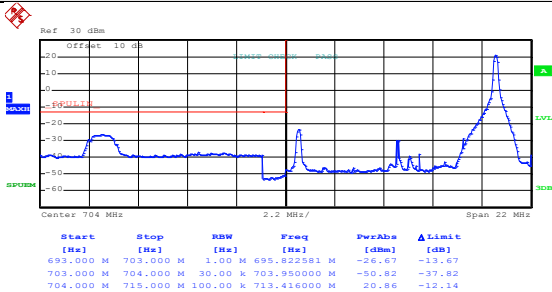
Lowest channel



Date: 29.NOV.2015 03:52:46

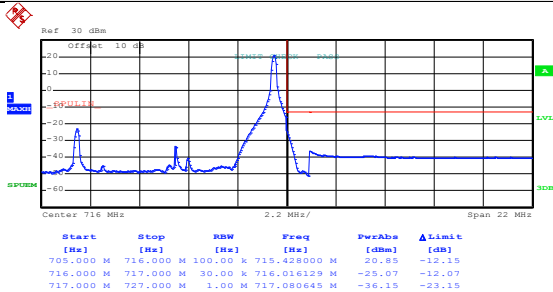
Highest channel

Test Mode:	LTE band 17(QPSK RB Size 1& RB Offset 49)
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Date: 29.NOV.2015 03:51:11

Lowest channel

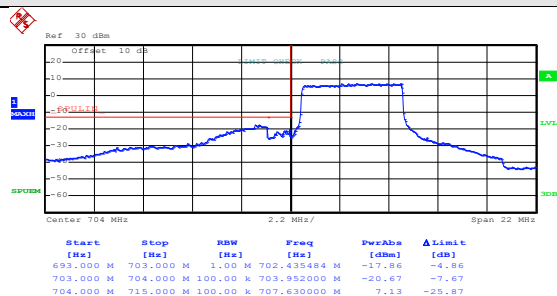


Date: 29.NOV.2015 03:52:59

Highest channel

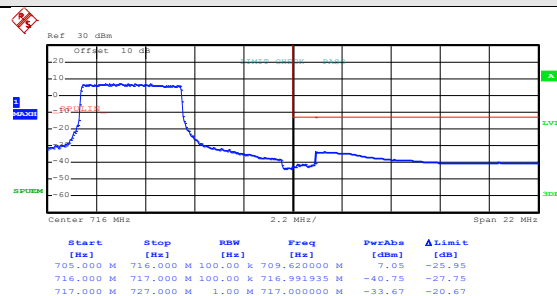
Test Mode:

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



Date: 29.NOV.2015 03:51:31

Lowest channel

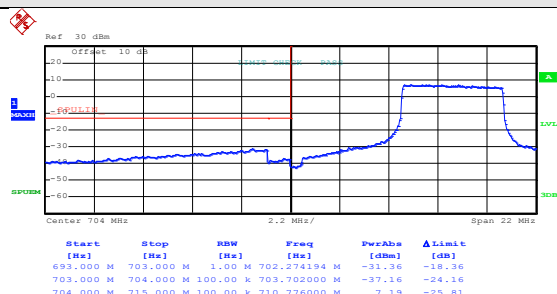


Date: 29.NOV.2015 03:53:20

Highest channel

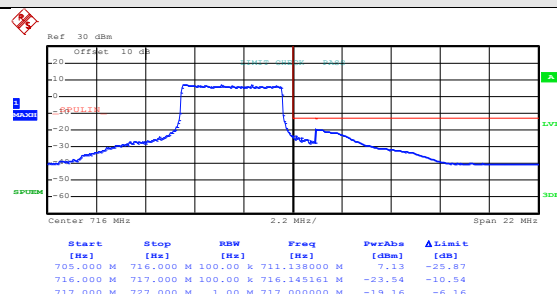
Test Mode:

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



Date: 29.NOV.2015 03:51:48

Lowest channel

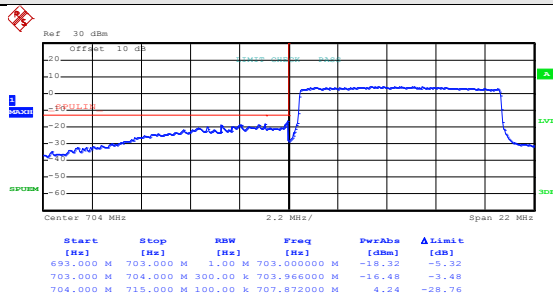


Date: 29.NOV.2015 03:53:38

Highest channel

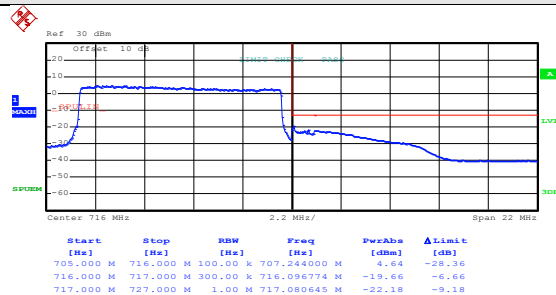
Test Mode:

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



Date: 29.NOV.2015 03:52:13

Lowest channel

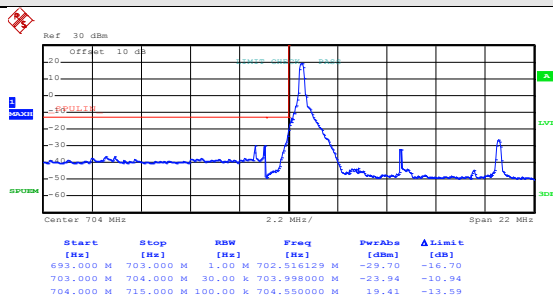


Date: 29.NOV.2015 03:53:59

Highest channel

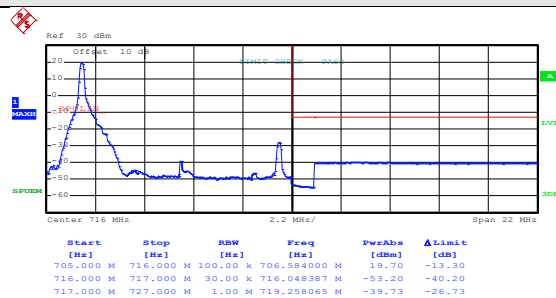
Test Mode:

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



Date: 29.NOV.2015 03:51:00

Lowest channel

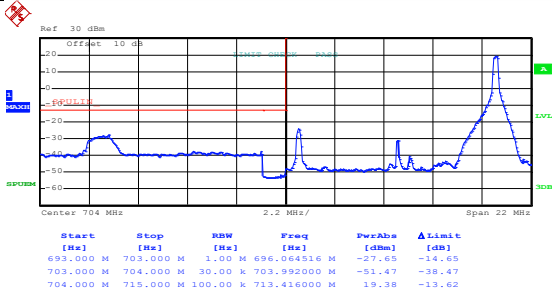


Date: 29.NOV.2015 03:52:52

Highest channel

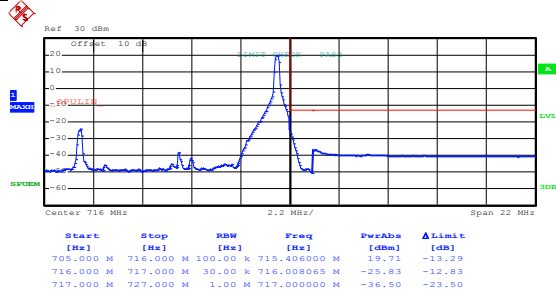
Test Mode:

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



Date: 29.NOV.2015 03:51:18

Lowest channel

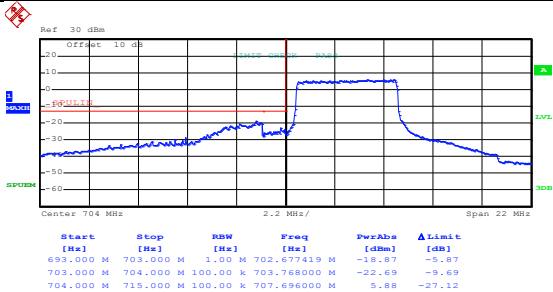


Date: 29.NOV.2015 03:53:06

Highest channel

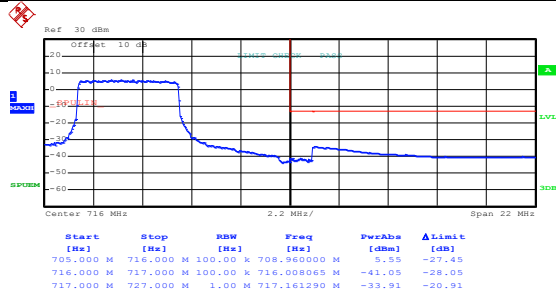
Test Mode:

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



Date: 29.NOV.2015 03:51:37

Lowest channel

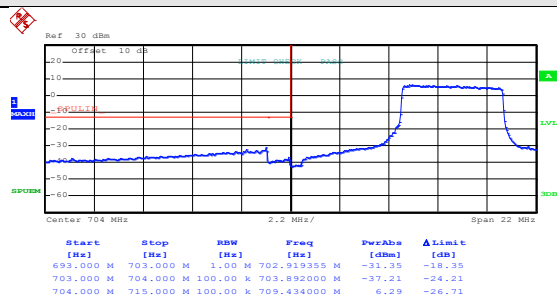


Date: 29.NOV.2015 03:53:27

Highest channel

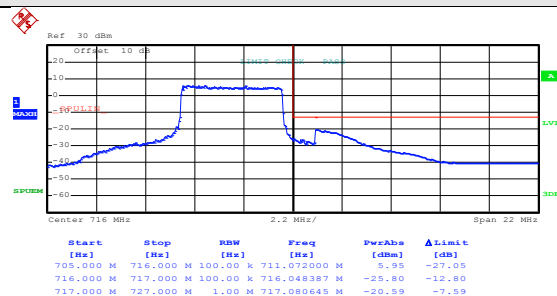
Test Mode:

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



Date: 29.NOV.2015 03:51:59

Lowest channel

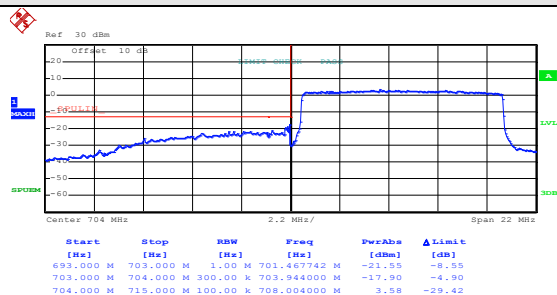


Date: 29.NOV.2015 03:53:45

Highest channel

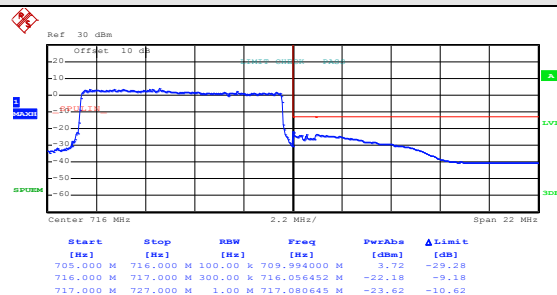
Test Mode:

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



Date: 29.NOV.2015 03:52:18

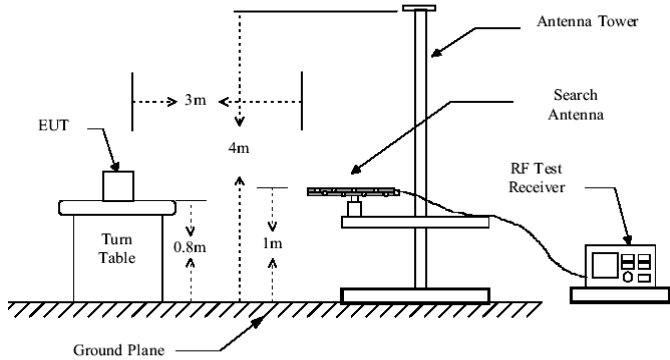
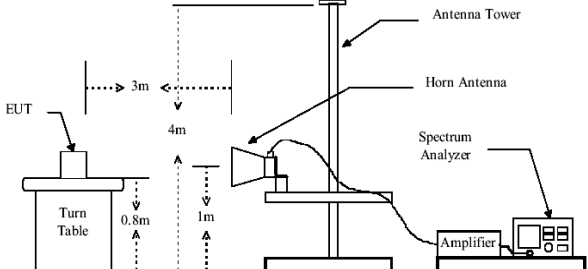
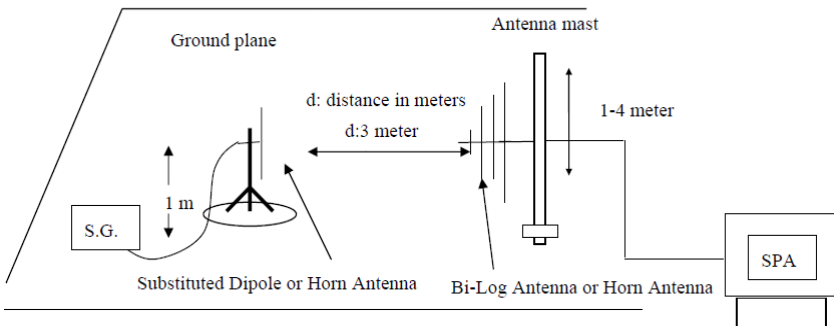
Lowest channel



Date: 29.NOV.2015 03:54:04

Highest channel

6.10 ERP, EIRP Measurement

Test Requirement:	FCCpart 24.232 (c),part 27.50(c),part 27.50(d) and part 2.913(a)
Test Method:	FCC part2.1046
Limit:	LTE Band 2: 2W EIRP LTE Band 4: 1W EIRP LTE Band 5: 7W ERP LTE Band 12: 3W ERP LTE Band 17: 3W ERP
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. EIRP/ERP in frequency band 1850.7 –1909.3MHz, 1710.7-1754.3 MHz and 706.5-713..5 MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP/ERP was calculated as follows: EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB) ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB) 4. 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	22.58	33.00	Pass
					H	20.25		
1850.70	18607	16QAM	1.4	H	V	23.07		
					H	19.70		
1.4MHz(RB size 3 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	23.24	33.00	Pass
					H	20.48		
1850.70	18607	16QAM	1.4	H	V	22.89		
					H	20.27		
1.4MHz(RB size 6 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	21.70	33.00	Pass
					H	19.03		
1850.70	18607	16QAM	1.4	H	V	21.77		
					H	19.15		

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	22.48	33.00	Pass
					H	20.36		
1880.00	18900	16QAM	1.4	H	V	22.95		
					H	19.79		
1.4MHz(RB size 3 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	23.14	33.00	Pass
					H	20.24		
1880.00	18900	16QAM	1.4	H	V	22.87		
					H	20.18		
1.4MHz(RB size 6 & RB offset 0)								
1880.00	18900	QPSK	1.40	H	V	21.68	33.00	Pass
					H	19.01		
1880.00	18900	16QAM	1.40	H	V	21.68		
					H	19.26		

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	22.41	33.00	Pass
					H	20.12		
1909.30	19193	16QAM	1.4	H	V	22.84		
					H	19.67		
1.4MHz(RB size 3 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	23.07	33.00	Pass
					H	20.18		
1909.30	19193	16QAM	1.4	H	V	22.47		
					H	20.19		
1.4MHz(RB size 6 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	21.47	33.00	Pass
					H	19..02		
1909.30	19193	16QAM	1.4	H	V	21.65		
					H	19.21		

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	23.07	33.00	Pass
					H	20.17		
1860.00	18700	16QAM	20	H	V	22.49		
					H	20.08		
20MHz(RB size 50 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	22.40	33.00	Pass
					H	19.63		
1860.00	18700	16QAM	20	H	V	22.31		
					H	20.12		
20MHz(RB size 100 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	20.23	33.00	Pass
					H	18.03		
1860.00	18700	16QAM	20	H	V	19.86		
					H	18.25		

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	23.01	33.00	Pass
					H	20.12		
1880.00	18900	16QAM	20	H	V	22.31		
					H	20.03		
20MHz(RB size 50 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	22.29	33.00	Pass
					H	19.54		
1880.00	18900	16QAM	20	H	V	22.14		
					H	20.11		
20MHz(RB size 100 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	20.18	33.00	Pass
					H	18.00		
1880.00	18900	16QAM	20	H	V	19.78		
					H	18.21		

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	22.98	33.00	Pass
					H	20.05		
1900.00	19100	16QAM	20	H	V	22.27		
					H	19.74		
20MHz(RB size 50 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	22.21	33.00	Pass
					H	19.36		
1900.00	19100	16QAM	20	H	V	22.04		
					H	20.03		
20MHz(RB size 100 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	20.03	33.00	Pass
					H	17.92		
1900.00	19100	16QAM	20	H	V	19.71		
					H	18.18		

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	23.00	30.00	Pass
					H	17.71		
1710.70	19957	16QAM	1.4	H	V	24.15		
					H	17.44		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	25.31	30.00	Pass
					H	18.41		
1710.70	19957	16QAM	1.4	H	V	25.49		
					H	18.18		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	23.47	30.00	Pass
					H	16.78		
1710.70	19957	16QAM	1.4	H	V	23.96		
					H	16.63		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	22.95	30.00	Pass
					H	17.69		
1732.50	20175	16QAM	1.4	H	V	24.11		
					H	17.42		
1.4MHz(RB size 3 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	25.29	30.00	Pass
					H	18.36		
1732.50	20175	16QAM	1.4	H	V	25.41		
					H	18.15		
1.4MHz(RB size 6 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	23.42	30.00	Pass
					H	16.75		
1732.50	20175	16QAM	1.4	H	V	23.93		
					H	16.57		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	22.94	30.00	Pass
					H	17.64		
1754.30	20393	16QAM	1.4	H	V	24.06		
					H	17.38		
1.4MHz(RB size 3 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	25.21	30.00	Pass
					H	18.33		
1754.30	20393	16QAM	1.4	H	V	25.36		
					H	18.14		
1.4MHz(RB size 6 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	23.40	30.00	Pass
					H	16.69		
1754.30	20393	16QAM	1.4	H	V	23.87		
					H	16.51		

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	24.54	30.00	Pass
					H	17.95		
1720.00	20050	16QAM	20	H	V	24.88		
					H	17.80		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	24.00	30.00	Pass
					H	17.66		
1720.00	20050	16QAM	20	H	V	24.64		
					H	18.05		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	21.89	30.00	Pass
					H	16.30		
1720.00	20050	16QAM	20	H	V	22.32		
					H	16.21		

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	24.49	30.00	Pass
					H	17.92		
1732.50	20175	16QAM	20	H	V	24.84		
					H	17.78		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	23.89	30.00	Pass
					H	17.51		
1732.50	20175	16QAM	20	H	V	24.62		
					H	18.01		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	21.81	30.00	Pass
					H	16.27		
1732.50	20175	16QAM	20	H	V	22.25		
					H	16.18		

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	24.21	30.00	Pass
					H	17.89		
1745.00	20300	16QAM	20	H	V	24.78		
					H	17.72		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	23.82	30.00	Pass
					H	17.48		
1745.00	20300	16QAM	20	H	V	24.56		
					H	17.99		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	21.75	30.00	Pass
					H	16.21		
1745.00	20300	16QAM	20	H	V	22.23		
					H	16.07		

LTE band 5 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
824.70	20407	QPSK	1.4	H	V	25.19	38.45	Pass
					H	21.87		
824.70	20407	16QAM	1.4	H	V	24.56		
					H	21.73		
1.4MHz(RB size 3& RB offset 0)								
824.70	20407	QPSK	1.4	H	V	25.16	38.45	Pass
					H	22.34		
824.70	20407	16QAM	1.4	H	V	24.70		
					H	22.27		
1.4MHz(RB size 6& RB offset 0)								
824.70	20407	QPSK	1.4	H	V	23.29	38.45	Pass
					H	20.48		
824.70	20407	16QAM	1.4	H	V	23.60		
					H	20.68		

Middle channel

Initial Channel								
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
836.50	20525	QPSK	1.4	H	V	25.17	38.45	Pass
					H	21.81		
836.50	20525	16QAM	1.4	H	V	24.22		
					H	21.34		
1.4MHz(RB size 3& RB offset 0)								
836.50	20525	QPSK	1.4	H	V	25.12	38.45	Pass
					H	21.86		
836.50	20525	16QAM	1.4	H	V	24.65		
					H	22.14		
1.4MHz(RB size 6& RB offset 0)								
836.50	20525	QPSK	1.4	H	V	23.14	38.45	Pass
					H	20.69		
836.50	20525	16QAM	1.4	H	V	23.53		
					H	20.62		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
848.30	20643	QPSK	1.4	H	V	25.12	38.45	Pass
					H	21.82		
848.30	20643	16QAM	1.4	H	V	24.14		
					H	21.26		
1.4MHz(RB size 3& RB offset 0)								
848.30	20643	QPSK	1.4	H	V	25.05	38.45	Pass
					H	21.82		
848.30	20643	16QAM	1.4	H	V	24.37		
					H	22.09		
1.4MHz(RB size 6& RB offset 0)								
848.30	20643	QPSK	1.4	H	V	23.09	38.45	Pass
					H	20.51		
848.30	20643	16QAM	1.4	H	V	23.31		
					H	20.49		

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)								
829.00	20450	QPSK	10	H	V	24.92	38.45	Pass
					H	22.22		
829.00	20450	16QAM	10	H	V	24.75		
					H	21.92		
10MHz(RB size 25& RB offset 0)								
829.00	20450	QPSK	10	H	V	23.14	38.45	Pass
					H	21.36		
829.00	20450	16QAM	10	H	V	23.41		
					H	21.77		
10MHz(RB size 50& RB offset 0)								
829.00	20450	QPSK	10	H	V	23.29	38.45	Pass
					H	20.31		
829.00	20450	16QAM	10	H	V	23.85		
					H	20.77		

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)								
836.50	20525	QPSK	10	H	V	24.85	38.45	Pass
					H	22.12		
836.50	20525	16QAM	10	H	V	24.64		
					H	21.69		
10MHz(RB size 25& RB offset 0)								
836.50	20525	QPSK	10	H	V	23.03	38.45	Pass
					H	21.24		
836.50	20525	16QAM	10	H	V	23.25		
					H	21.56		
10MHz(RB size 50 & RB offset 0)								
836.50	20525	QPSK	10	H	V	23.11	38.45	Pass
					H	20.24		
836.50	20525	16QAM	10	H	V	23.52		
					H	20.72		

High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
10MHz(RB size 1 & RB offset 0)								
844.00	20600	QPSK	10	H	V	24.63	38.45	Pass
					H	22.08		
844.00	20600	16QAM	10	H	V	24.53		
					H	21.06		
10MHz(RB size 25& RB offset 0)								
844.00	20600	QPSK	10	H	V	22.96	38.45	Pass
					H	20.86		
844.00	20600	16QAM	10	H	V	23.04		
					H	21.48		
10MHz(RB size 50 & RB offset 0)								
844.00	20600	QPSK	10	H	V	22.95	38.45	Pass
					H	20.15		
844.00	20600	16QAM	10	H	V	23.39		
					H	20.26		

LTE band 12 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
699.70	23017	QPSK	1.4	H	V	23.67	34.77	Pass
					H	19.00		
699.70	23017	16QAM	1.4	H	V	23.08		
					H	19.03		
1.4MHz(RB size 3& RB offset 0)								
699.70	23017	QPSK	1.4	H	V	22.68	34.77	Pass
					H	19.29		
699.70	23017	16QAM	1.4	H	V	22.90		
					H	19.36		
1.4MHz(RB size 6& RB offset 0)								
699.70	23017	QPSK	1.4	H	V	21.83	34.77	Pass
					H	18.12		
699.70	23017	16QAM	1.4	H	V	21.88		
					H	18.51		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
707.50	23095	QPSK	1.4	H	V	23.41	34.77	Pass
					H	18.66		
707.50	23095	16QAM	1.4	H	V	22.98		
					H	18.85		
1.4MHz(RB size 3& RB offset 0)								
707.50	23095	QPSK	1.4	H	V	22.45	34.77	Pass
					H	19.15		
707.50	23095	16QAM	1.4	H	V	22.37		
					H	19.26		
1.4MHz(RB size 6& RB offset 0)								
707.50	23095	QPSK	1.4	H	V	21.64	34.77	Pass
					H	18.01		
707.50	23095	16QAM	1.4	H	V	21.41		
					H	18.45		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
715.30	23173	QPSK	1.4	H	V	23.32	34.77	Pass
					H	18.41		
715.30	23173	16QAM	1.4	H	V	22.58		
					H	18.73		
1.4MHz(RB size 3& RB offset 0)								
715.30	23173	QPSK	1.4	H	V	22.05	34.77	Pass
					H	19.11		
715.30	23173	16QAM	1.4	H	V	22.25		
					H	19.17		
1.4MHz(RB size 6& RB offset 0)								
715.30	23173	QPSK	1.4	H	V	21.25	34.77	Pass
					H	17.85		
715.30	23173	16QAM	1.4	H	V	21.25		
					H	18.22		

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)								
704.00	23060	QPSK	10	H	V	22.78	34.77	Pass
					H	19.33		
704.00	23060	16QAM	10	H	V	22.84		
					H	19.34		
10MHz(RB size 25& RB offset 0)								
704.00	23060	QPSK	10	H	V	23.96	34.77	Pass
					H	20.73		
704.00	23060	16QAM	10	H	V	24.14		
					H	20.77		
10MHz(RB size 50& RB offset 0)								
704.00	23060	QPSK	10	H	V	23.38	34.77	Pass
					H	20.29		
704.00	23060	16QAM	10	H	V	23.84		
					H	20.83		

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)								
707.50	23095	QPSK	10	H	V	22.63	34.77	Pass
					H	19.33		
707.50	23095	16QAM	10	H	V	22.76		
					H	19.24		
10MHz(RB size 25& RB offset 0)								
707.50	23095	QPSK	10	H	V	23.52	34.77	Pass
					H	20.63		
707.50	23095	16QAM	10	H	V	23.84		
					H	20.41		
10MHz(RB size 50 & RB offset 0)								
707.50	23095	QPSK	10	H	V	23.25	34.77	Pass
					H	20.15		
707.50	23095	16QAM	10	H	V	23.52		
					H	20.66		

High 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	23130	QPSK	10	H	V	22.52	34.77	Pass
					H	19.25		
711.00	23130	16QAM	10	H	V	22.62		
					H	18.63		
10MHz(RB size 25& RB offset 0)								
711.00	23130	QPSK	10	H	V	23.48	34.77	Pass
					H	20.54		
711.00	23130	16QAM	10	H	V	23.72		
					H	20.25		
10MHz(RB size 50 & RB offset 0)								
711.00	23130	QPSK	10	H	V	23.18	34.77	Pass
					H	20.02		
711.00	23130	16QAM	10	H	V	23.26		
					H	20.52		

**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	24.92	34.77	Pass
					H	21.47		
706.50	23755	16QAM	5	H	V	25.13		
					H	21.71		
5MHz(RB size 12 & RB offset 0)								
706.50	23755	QPSK	5	H	V	25.01	34.77	Pass
					H	21.86		
706.50	23755	16QAM	5	H	V	25.22		
					H	22.20		
5MHz(RB size 25 & RB offset 0)								
706.50	23755	QPSK	5	H	V	22.36	34.77	Pass
					H	19.28		
706.50	23755	16QAM	5	H	V	22.92		
					H	20.02		

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	24.87	34.77	Pass
					H	21.36		
710.00	23790	16QAM	5	H	V	25.02		
					H	21.64		
5MHz(RB size 12 & RB offset 0)								
710.00	23790	QPSK	5	H	V	24.86	34.77	Pass
					H	21.51		
710.00	23790	16QAM	5	H	V	25.23		
					H	22.14		
5MHz(RB size 25 & RB offset 0)								
710.00	23790	QPSK	5	H	V	22.24	34.77	Pass
					H	19.16		
710.00	23790	16QAM	5	H	V	22.87		
					H	19.89		

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	24.65	34.77	Pass
					H	21.24		
713.50	23825	16QAM	5	H	V	24.96		
					H	21.54		
5MHz(RB size 12 & RB offset 0)								
713.50	23825	QPSK	5	H	V	24.74	34.77	Pass
					H	21.39		
713.50	23825	16QAM	5	H	V	25.15		
					H	22.11		
5MHz(RB size 25 & RB offset 0)								
713.50	23825	QPSK	5	H	V	22.09	34.77	Pass
					H	19.05		
713.50	23825	16QAM	5	H	V	22.63		
					H	19.72		

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	24.69	34.77	Pass
					H	21.61		
709.00	23780	16QAM	10	H	V	24.90		
					H	21.78		
10MHz(RB size 25& RB offset 0)								
709.00	23780	QPSK	10	H	V	25.03	34.77	Pass
					H	21.84		
709.00	23780	16QAM	10	H	V	25.15		
					H	22.01		
10MHz(RB size 50& RB offset 0)								
709.00	23780	QPSK	10	H	V	23.82	34.77	Pass
					H	20.65		
709.00	23780	16QAM	10	H	V	24.08		
					H	21.15		

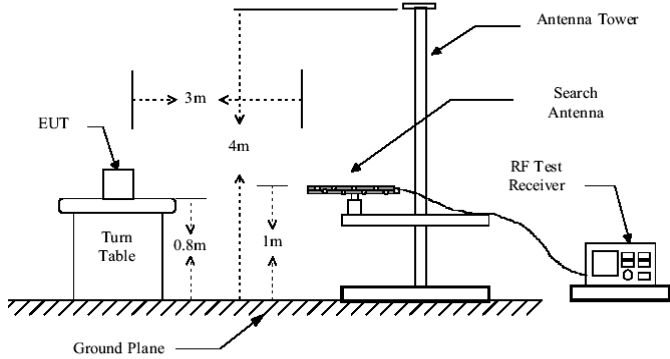
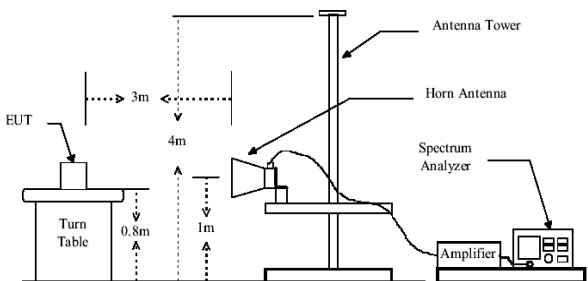
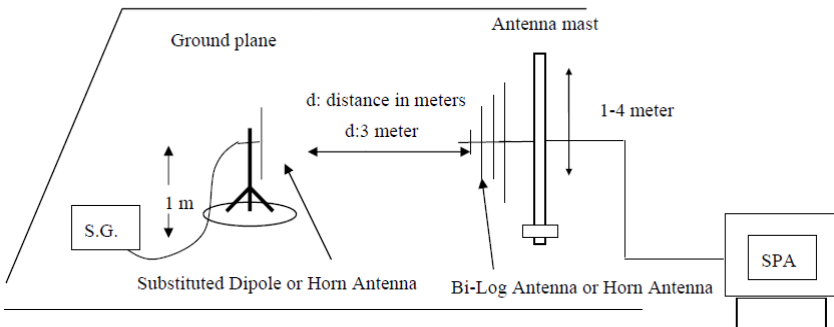
Middle channel

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	24.39	34.77	Pass
					H	21.58		
710.00	23790	16QAM	10	H	V	24.79		
					H	21.53		
10MHz(RB size 25& RB offset 0)								
710.00	23790	QPSK	10	H	V	24.94	34.77	Pass
					H	21.73		
710.00	23790	16QAM	10	H	V	25.01		
					H	21.93		
10MHz(RB size 50& RB offset 0)								
710.00	23790	QPSK	10	H	V	23.76	34.77	Pass
					H	20.51		
710.00	23790	16QAM	10	H	V	23.95		
					H	21.07		

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	24.33	34.77	Pass
					H	21.37		
711.00	23800	16QAM	10	H	V	24.51		
					H	21.37		
10MHz(RB size 25& RB offset 0)								
711.00	23800	QPSK	10	H	V	24.78	34.77	Pass
					H	21.68		
711.00	23800	16QAM	10	H	V	24.98		
					H	21.79		
10MHz(RB size 50& RB offset 0)								
711.00	23800	QPSK	10	H	V	23.71	34.77	Pass
					H	20.47		
711.00	23800	16QAM	10	H	V	23.81		
					H	21.03		

6.11 Field strength of spurious radiation measurement

Test Requirement:	FCC Part 24.238 (a), part 27.53(g), part 27.53(h) and part 22.359(a)
Test Method:	FCC part2.1053
Limit:	LTE Band 2, LTE Band 4, LTE Band 5, LTE Band 12 and LTE Band 17: -13dBm
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	-44.16	-13.00	Pass
5552.10	V	-26.34		
7402.00	V	-21.34		
3701.40	Horizontal	-41.89		
5552.10	H	-23.08		
7402.00	H	-20.62		
Middle				
3760.00	Vertical	-42.40	-13.00	Pass
5640.00	V	-31.00		
7520.00	V	-26.26		
3760.00	Horizontal	-40.44		
5640.00	H	-33.79		
7520.00	H	-21.54		
Highest				
3816.60	Vertical	-43.76	-13.00	Pass
5724.90	V	-29.03		
7633.20	V	-20.62		
3816.60	Horizontal	-38.72		
5724.90	H	-27.06		
7633.20	H	-22.31		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3703.00	Vertical	-42.52	-13.00	Pass
5554.50	V	-25.37		
7406.00	V	-18.28		
3703.00	Horizontal	-41.81		
5554.50	H	-23.69		
7406.00	H	-23.56		
Middle				
3760.00	Vertical	-41.62	-13.00	Pass
5640.00	V	-29.47		
7520.00	V	-23.95		
3760.00	Horizontal	-38.46		
5640.00	H	-30.59		
7520.00	H	-21.11		
Highest				
3817.00	Vertical	-43.37	-13.00	Pass
5725.50	V	-29.59		
7634.00	V	-24.24		
3817.00	Horizontal	-40.42		
5725.50	H	-29.81		
7634.00	H	-25.56		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3705.00	Vertical	-44.63	-13.00	Pass
5557.50	V	-26.54		
7410.00	V	-21.99		
3705.00	Horizontal	-41.52		
5557.50	H	-23.95		
7410.00	H	-20.57		
Middle				
3760.00	Vertical	-42.38	-13.00	Pass
5640.00	V	-31.15		
7520.00	V	-26.25		
3760.00	Horizontal	-40.63		
5640.00	H	-33.73		
7520.00	H	-21.32		
Highest				
3815.00	Vertical	-43.12	-13.00	Pass
5722.50	V	-29.16		
7630.00	V	-20.52		
3815.00	Horizontal	-38.68		
5722.50	H	-27.78		
7630.00	H	-22.21		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3710.00	Vertical	-42.37	-13.00	Pass
5565.00	V	-25.86		
7420.00	V	-18.54		
3710.00	Horizontal	-41.94		
5565.00	H	-23.97		
7420.00	H	-23.24		
Middle				
3760.00	Vertical	-41.56	-13.00	Pass
5640.00	V	-29.74		
7520.00	V	-23.75		
3760.00	Horizontal	-38.66		
5640.00	H	-30.01		
7520.00	H	-21.48		
Highest				
3810.00	Vertical	-43.81	-13.00	Pass
5715.00	V	-29.42		
7620.00	V	-24.46		
3810.00	Horizontal	-40.68		
5715.00	H	-29.79		
7620.00	H	-25.14		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3715.00	Vertical	-44.31	-13.00	Pass
5572.50	V	-26.45		
7430.00	V	-21.44		
3715.00	Horizontal	-41.36		
5572.50	H	-23.56		
7430.00	H	-20.80		
Middle				
3760.00	Vertical	-42.31	-13.00	Pass
5640.00	V	-31.63		
7520.00	V	-26.27		
3760.00	Horizontal	-40.53		
5640.00	H	-33.54		
7520.00	H	-21.62		
Highest				
3805.00	Vertical	-43.43	-13.00	Pass
5707.50	V	-29.97		
7610.00	V	-20.27		
3805.00	Horizontal	-38.53		
5707.50	H	-27.09		
7610.00	H	-22.83		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3720.00	Vertical	-42.27	-13.00	Pass
5580.00	V	-25.40		
7440.00	V	-18.14		
3720.00	Horizontal	-41.77		
5580.00	H	-23.86		
7440.00	H	-23.03		
Middle				
3760.00	Vertical	-41.65	-13.00	Pass
5640.00	V	-29.63		
7520.00	V	-23.27		
3760.00	Horizontal	-38.27		
5640.00	H	-30.39		
7520.00	H	-21.81		
Highest				
3800.00	Vertical	-43.27	-13.00	Pass
5700.00	V	-29.83		
7600.00	V	-24.73		
3800.00	Horizontal	-40.49		
5700.00	H	-29.62		
7600.00	H	-25.03		

LTE Band 4 Part:

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3421.40	Vertical	-45.26	-13.00	Pass
5132.10	V	-32.49		
6842.80	V	-33.64		
3421.40	Horizontal	-40.71		
5132.10	H	-30.55		
6842.80	H	-24.48		
Middle				
3465.00	Vertical	-46.41	-13.00	Pass
5197.50	V	-36.54		
6930.00	V	-36.47		
3465.00	Horizontal	-38.40		
5197.50	H	-34.41		
6930.00	H	-21.86		
Highest				
3508.60	Vertical	-45.58	-13.00	Pass
5262.90	V	-29.53		
7017.20	V	-33.34		
3508.60	Horizontal	-37.44		
5262.90	H	-28.75		
7017.20	H	-25.07		
3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-46.42	-13.00	Pass
5134.50	V	-33.39		
6846.00	V	-36.34		
3423.00	Horizontal	-37.74		
5134.50	H	-30.11		
6846.00	H	-33.58		
Middle				
3465.00	Vertical	-42.45	-13.00	Pass
5197.50	V	-33.88		
6930.00	V	-35.74		
3465.00	Horizontal	-38.34		
5197.50	H	-30.72		
6930.00	H	-21.84		

Highest				
3507.00	Vertical	-47.11	-13.00	Pass
5260.50	V	-34.22		
7014.00	V	-37.39		
3507.00	Horizontal	-39.34		
5260.50	H	-34.26		
7014.00	H	-36.49		
5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-45.35	-13.00	Pass
5137.50	V	-32.46		
6850.00	V	-33.52		
3425.00	Horizontal	-40.27		
5137.50	H	-30.53		
6850.00	H	-24.44		
Middle				
3465.00	Vertical	-46.79	-13.00	Pass
5197.50	V	-36.71		
6930.00	V	-34.44		
3465.00	Horizontal	-38.38		
5197.50	H	-34.12		
6930.00	H	-21.98		
Highest				
3505.00	Vertical	-45.76	-13.00	Pass
5257.50	V	-29.16		
7010.00	V	-33.34		
3505.00	Horizontal	-37.15		
5257.50	H	-28.64		
7010.00	H	-25.60		
10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-46.34	-13.00	Pass
5145.00	V	-33.52		
6860.00	V	-36.69		
3430.00	Horizontal	-37.86		
5145.00	H	-30.81		
6860.00	H	-33.56		

Middle				
3465.00	Vertical	-42.17	-13.00	Pass
5197.50	V	-33.72		
6930.00	V	-35.11		
3465.00	Horizontal	-38.66		
5197.50	H	-30.62		
6930.00	H	-21.16		
Highest				
3500.00	Vertical	-47.18	-13.00	Pass
5250.00	V	-34.64		
7000.00	V	-37.27		
3500.00	Horizontal	-39.59		
5250.00	H	-34.51		
7000.00	H	-26.58		
15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-45.44	-13.00	Pass
5152.50	V	-32.34		
6870.00	V	-34.75		
3435.00	Horizontal	-40.16		
5152.50	H	-30.51		
6870.00	H	-24.39		
Middle				
3465.00	Vertical	-46.07	-13.00	Pass
5197.50	V	-36.71		
6930.00	V	-34.27		
3465.00	Horizontal	-38.78		
5197.50	H	-34.49		
6930.00	H	-21.92		
Highest				
3495.00	Vertical	-45.79	-13.00	Pass
5242.50	V	-29.14		
6990.00	V	-33.64		
3495.00	Horizontal	-37.34		
5242.50	H	-28.39		
6990.00	H	-25.55		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-46.29	-13.00	Pass
5160.00	V	-33.42		
6880.00	V	-36.42		
3440.00	Horizontal	-37.50		
5160.00	H	-30.40		
6880.00	H	-33.47		
Middle				
3465.00	Vertical	-42.98	-13.00	Pass
5197.50	V	-33.01		
6930.00	V	-35.93		
3465.00	Horizontal	-38.54		
5197.50	H	-30.80		
6930.00	H	-21.72		
Highest				
3490.00	Vertical	-47.84	-13.00	Pass
5235.00	V	-34.12		
6980.00	V	-37.64		
3490.00	Horizontal	-39.22		
5235.00	H	-34.72		
6980.00	H	-26.87		

LTE Band 5 Part:

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1649.40	Vertical	-51.22	-13	Pass
2474.10	V	-38.22		
3298.80	V	-48.60		
1649.40	Horizontal	-56.92		
2474.10	H	-40.71		
3298.80	H	-49.33		
Middle				
1673.00	Vertical	-51.22	-13	Pass
2509.50	V	-40.17		
3346.00	V	-47.55		
1673.00	Horizontal	-56.09		
2509.50	H	-39.51		
3346.00	H	-49.41		
Highest				
1696.60	Vertical	-53.98	-13	Pass
2544.90	V	-46.82		
3393.20	V	-47.80		
1696.60	Horizontal	-56.00		
2544.90	H	-45.87		
3393.20	H	-47.06		
3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1651.00	Vertical	-53.40	-13	Pass
2476.50	V	-49.38		
3302.00	V	-46.40		
1651.00	Horizontal	-54.97		
2476.50	H	-46.73		
3302.00	H	-48.30		
Middle				
1673.00	Vertical	-51.32	-13	Pass
2509.50	V	-37.37		
3346.00	V	-46.42		
1673.00	Horizontal	-57.57		
2509.50	H	-43.17		
3346.00	H	-48.95		

Highest				
1695.00	Vertical	-51.32	-13	Pass
2542.50	V	-40.38		
3390.00	V	-47.82		
1695.00	Horizontal	-36.41		
2542.50	H	-43.84		
3390.00	H	-46.74		
5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1653.00	Vertical	-51.16	-13	Pass
2479.50	V	-38.25		
3306.00	V	-48.33		
1653.00	Horizontal	-56.94		
2479.50	H	-40.44		
3306.00	H	-49.87		
Middle				
1673.00	Vertical	-51.42	-13	Pass
2509.50	V	-40.76		
3346.00	V	-47.47		
1673.00	Horizontal	-56.22		
2509.50	H	-39.61		
3346.00	H	-49.78		
Highest				
1693.00	Vertical	-53.37	-13	Pass
2539.50	V	-46.40		
3386.00	V	-47.42		
1693.00	Horizontal	-56.34		
2539.50	H	-45.01		
3386.00	H	-47.33		
10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1658.00	Vertical	-53.43	-13	Pass
2487.00	V	-49.69		
3316.00	V	-46.27		
1658.00	Horizontal	-54.35		
2487.00	H	-46.90		
3316.00	H	-48.30		

Middle				
1673.00	Vertical	-51.62	-13	Pass
2509.50	V	-37.41		
3346.00	V	-46.10		
1673.00	Horizontal	-57.32		
2509.50	H	-43.27		
3346.00	H	-48.24		
Highest				
1688.00	Vertical	-51.38	-13	Pass
2532.00	V	-40.82		
3376.00	V	-47.40		
1688.00	Horizontal	-56.95		
2532.00	H	-43.27		
3376.00	H	-46.03		

LTE Band 12 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				
1399.40	Vertical	-52.38	-13	Pass
2099.10	V	-47.98		
2798.80	V	-45.81		
1399.40	Horizontal	-56.48		
2099.10	H	-49.81		
2798.80	H	-51.70		
Middle				
1415.00	Vertical	-53.94	-13	Pass
2122.50	V	-42.29		
2830.00	V	-50.38		
1415.00	Horizontal	-53.67		
2122.50	H	-45.79		
2830.00	H	-51.68		
Highest				
1430.60	Vertical	-54.38	-13	Pass
2145.90	V	-39.65		
2861.20	V	-49.20		
1430.60	Horizontal	-55.03		
2145.90	H	-42.69		
2861.20	H	-51.55		
3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1401.00	Vertical	-55.14	-13	Pass
2101.50	V	-46.21		
2802.00	V	-46.28		
1401.00	Horizontal	-56.11		
2101.50	H	-47.19		
2802.00	H	-51.43		
Middle				
1415.00	Vertical	-54.56	-13	Pass
2122.50	V	-40.54		
2830.00	V	-47.58		
1415.00	Horizontal	-56.07		
2122.50	H	-48.51		
2830.00	H	-51.61		

Highest				
1429.00	Vertical	-55.36	-13	Pass
2143.50	V	-42.36		
2858.00	V	-50.41		
1429.00	Horizontal	-55.94		
2143.50	H	-47.97		
2858.00	H	-51.13		
5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1403.00	Vertical	-52.14	-13	Pass
2104.50	V	-47.21		
2806.00	V	-45.28		
1403.00	Horizontal	-56.27		
2104.50	H	-49.44		
2806.00	H	-51.59		
Middle				
1415.00	Vertical	-53.55	-13	Pass
2122.50	V	-42.45		
2830.00	V	-50.59		
1415.00	Horizontal	-53.81		
2122.50	H	-45.29		
2830.00	H	-51.65		
Highest				
1427.00	Vertical	-54.97	-13	Pass
2410.50	V	-39.75		
2854.00	V	-49.08		
1427.00	Horizontal	-55.58		
2410.50	H	-42.94		
2854.00	H	-51.39		

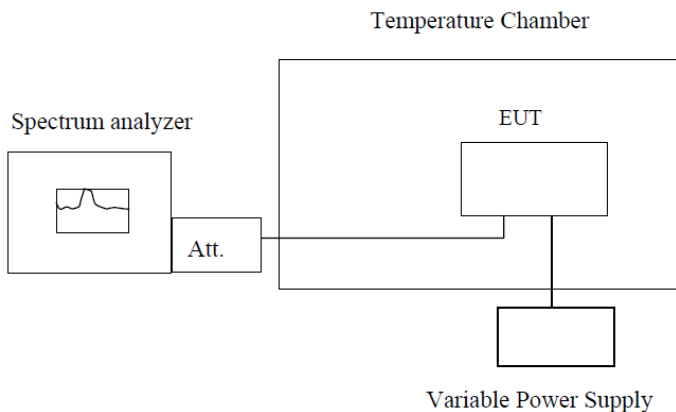
10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1408.00	Vertical	-55.53	-13	Pass
2112.00	V	-46.38		
2816.00	V	-46.39		
1408.00	Horizontal	-56.08		
2112.00	H	-47.59		
2816.00	H	-51.55		
Middle				
1415.00	Vertical	-54.89	-13	Pass
2122.50	V	-40.95		
2830.00	V	-47.01		
1415.00	Horizontal	-56.99		
2122.50	H	-48.18		
2830.00	H	-51.14		
Highest				
1422.00	Vertical	-55.35	-13	Pass
2133.00	V	-42.97		
2844.00	V	-50.55		
1422.00	Horizontal	-55.10		
2133.00	H	-47.52		
2844.00	H	-51.18		

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	-58.35	-13.00	Pass
2119.50	V	-42.89		
2826.00	V	-50.20		
1413.00	Horizontal	-58.17		
2119.50	H	-52.15		
2826.00	H	-50.94		
Middle				
1420.00	Vertical	-51.09	-13.00	Pass
2130.00	V	-43.48		
2840.00	V	-51.32		
1420.00	Horizontal	-53.87		
2130.00	H	-49.05		
2840.00	H	-52.42		
Highest				
1427.00	Vertical	-52.05	-13.00	Pass
2140.50	V	-43.21		
2854.00	V	-47.17		
1427.00	Horizontal	-53.67		
2140.50	H	-43.81		
2854.00	H	-50.26		
10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1418.00	Vertical	-53.88	-13.00	Pass
2127.00	V	-40.08		
2836.00	V	-45.52		
1418.00	Horizontal	-54.99		
2127.00	H	-44.54		
2836.00	H	-52.28		
Middle				
1420.00	Vertical	-51.04	-13.00	Pass
2130.00	V	-40.25		
2840.00	V	-47.53		
1420.00	Horizontal	-54.04		
2130.00	H	-47.58		
2840.00	H	-50.33		

Highest				
1422.00	Vertical	-53.24	-13.00	Pass
2133.00	V	-41.16		
2844.00	V	-49.98		
1422.00	Horizontal	-53.51		
2133.00	H	-46.77		
2844.00	H	-50.69		

6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	±2.5ppm
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	192	0.102128	±2.5	Pass
	-20	132	0.046277		
	-10	105	0.039362		
	0	164	0.068617		
	10	112	0.048404		
	20	142	0.046277		
	30	174	0.038830		
	40	103	0.032979		
	50	126	0.051596		
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	156	0.082979	±2.5	Pass
	-20	123	0.065426		
	-10	102	0.054255		
	0	112	0.059574		
	10	145	0.077128		
	20	175	0.093085		
	30	106	0.056383		
	40	180	0.095745		
	50	126	0.067021		
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	112	0.059574	±2.5	Pass
	-20	102	0.054255		
	-10	105	0.055851		
	0	103	0.054787		
	10	116	0.061702		
	20	120	0.063830		
	30	127	0.067553		
	40	126	0.067021		
	50	135	0.071809		

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	156	0.082979	±2.5	Pass
	-20	123	0.065426		
	-10	142	0.075532		
	0	112	0.059574		
	10	149	0.079255		
	20	130	0.069149		
	30	136	0.072340		
	40	108	0.057447		
	50	171	0.090957		
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	112	0.059574	±2.5	Pass
	-20	102	0.054255		
	-10	129	0.068617		
	0	151	0.080319		
	10	154	0.081915		
	20	107	0.056915		
	30	103	0.054787		
	40	127	0.067553		
	50	136	0.072340		
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	198	0.105319	±2.5	Pass
	-20	125	0.066489		
	-10	123	0.065426		
	0	114	0.060638		
	10	165	0.087766		
	20	174	0.092553		
	30	166	0.088298		
	40	120	0.063830		
	50	128	0.068085		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	156	0.082979	±2.5	Pass
	-20	122	0.064894		
	-10	133	0.070745		
	0	120	0.063830		
	10	141	0.075000		
	20	107	0.056915		
	30	150	0.079787		
	40	114	0.060638		
	50	109	0.057979		
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	152	0.080851	±2.5	Pass
	-20	136	0.072340		
	-10	164	0.087234		
	0	174	0.092553		
	10	102	0.054255		
	20	105	0.055851		
	30	147	0.078191		
	40	135	0.071809		
	50	120	0.063830		
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	174	0.092553	±2.5	Pass
	-20	128	0.068085		
	-10	160	0.085106		
	0	135	0.071809		
	10	184	0.097872		
	20	102	0.054255		
	30	156	0.082979		
	40	177	0.094149		
	50	148	0.078723		

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	163	0.086702	±2.5	Pass
	-20	120	0.063830		
	-10	152	0.080851		
	0	127	0.067553		
	10	123	0.065426		
	20	114	0.060638		
	30	116	0.061702		
	40	118	0.062766		
	50	108	0.057447		
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	126	0.067021	±2.5	Pass
	-20	123	0.065426		
	-10	128	0.068085		
	0	114	0.060638		
	10	107	0.056915		
	20	174	0.092553		
	30	136	0.072340		
	40	165	0.087766		
	50	155	0.082447		
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	123	0.065426	±2.5	Pass
	-20	166	0.088298		
	-10	128	0.068085		
	0	127	0.067553		
	10	124	0.065957		
	20	142	0.075532		
	30	144	0.076596		
	40	162	0.086170		
	50	105	0.055851		

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	199	0.114863	±2.5	Pass
	-20	123	0.070996		
	-10	162	0.093506		
	0	102	0.058874		
	10	141	0.081385		
	20	174	0.100433		
	30	188	0.108514		
	40	132	0.076190		
	50	105	0.060606		
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	112	0.064646	±2.5	Pass
	-20	115	0.066378		
	-10	164	0.094661		
	0	132	0.076190		
	10	138	0.079654		
	20	166	0.095815		
	30	174	0.100433		
	40	145	0.083694		
	50	146	0.084271		
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	122	0.070418	±2.5	Pass
	-20	130	0.075036		
	-10	150	0.086580		
	0	166	0.095815		
	10	133	0.076768		
	20	135	0.077922		
	30	127	0.073304		
	40	107	0.061760		
	50	117	0.067532		

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	126	0.072727	±2.5	Pass
	-20	120	0.069264		
	-10	130	0.075036		
	0	147	0.084848		
	10	181	0.104473		
	20	110	0.063492		
	30	117	0.067532		
	40	144	0.083117		
	50	155	0.089466		
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	132	0.076190	±2.5	Pass
	-20	162	0.093506		
	-10	135	0.077922		
	0	164	0.094661		
	10	128	0.073882		
	20	187	0.107937		
	30	177	0.102165		
	40	175	0.101010		
	50	126	0.072727		
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	198	0.114286	±2.5	Pass
	-20	123	0.070996		
	-10	162	0.093506		
	0	148	0.085426		
	10	128	0.073882		
	20	166	0.095815		
	30	177	0.102165		
	40	172	0.099278		
	50	108	0.062338		

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	145	0.083694	±2.5	Pass
	-20	123	0.070996		
	-10	136	0.078499		
	0	128	0.073882		
	10	144	0.083117		
	20	148	0.085426		
	30	105	0.060606		
	40	112	0.064646		
	50	116	0.066955		
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	103	0.059452	±2.5	Pass
	-20	105	0.060606		
	-10	118	0.068110		
	0	117	0.067532		
	10	116	0.066955		
	20	112	0.064646		
	30	123	0.070996		
	40	126	0.072727		
	50	128	0.073882		
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	133	0.076768	±2.5	Pass
	-20	135	0.077922		
	-10	136	0.078499		
	0	120	0.069264		
	10	128	0.073882		
	20	144	0.083117		
	30	146	0.084271		
	40	123	0.070996		
	50	108	0.062338		

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	108	0.062338	±2.5	Pass
	-20	107	0.061760		
	-10	103	0.059452		
	0	112	0.064646		
	10	162	0.093506		
	20	125	0.072150		
	30	145	0.083694		
	40	140	0.080808		
	50	126	0.072727		
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	132	0.076190	±2.5	Pass
	-20	136	0.078499		
	-10	102	0.058874		
	0	104	0.060029		
	10	114	0.065801		
	20	128	0.073882		
	30	129	0.074459		
	40	126	0.072727		
	50	144	0.083117		
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	102	0.058874	±2.5	Pass
	-20	105	0.060606		
	-10	103	0.059452		
	0	104	0.060029		
	10	112	0.064646		
	20	116	0.066955		
	30	118	0.068110		
	40	120	0.069264		
	50	171	0.098701		

LTE Band 5(QPSK):

Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	198	0.236701	±2.5	Pass
	-20	123	0.147041		
	-10	125	0.149432		
	0	126	0.150628		
	10	147	0.175732		
	20	166	0.198446		
	30	104	0.124328		
	40	117	0.139868		
	50	113	0.135087		
Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	126	0.150628	±2.5	Pass
	-20	105	0.125523		
	-10	132	0.157800		
	0	143	0.170950		
	10	171	0.204423		
	20	165	0.197250		
	30	108	0.129109		
	40	104	0.124328		
	50	119	0.142259		
Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	126	0.150628	±2.5	Pass
	-20	133	0.158996		
	-10	135	0.161387		
	0	137	0.163778		
	10	128	0.153019		
	20	126	0.150628		
	30	114	0.136282		
	40	117	0.139868		
	50	105	0.125523		
Reference Frequency: LTE Band 5(10MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	108	0.129109	±2.5	Pass
	-20	106	0.126718		
	-10	103	0.123132		
	0	114	0.136282		
	10	117	0.139868		
	20	123	0.147041		
	30	126	0.150628		
	40	128	0.153019		
	50	145	0.173341		

LTE Band 5(16QAM):

Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	126	0.150628	±2.5	Pass
	-20	184	0.219964		
	-10	120	0.143455		
	0	131	0.156605		
	10	110	0.131500		
	20	114	0.136282		
	30	117	0.139868		
	40	121	0.144650		
	50	138	0.164973		
Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	126	0.150628	±2.5	Pass
	-20	145	0.173341		
	-10	162	0.193664		
	0	166	0.198446		
	10	134	0.160191		
	20	127	0.151823		
	30	147	0.175732		
	40	116	0.138673		
	50	122	0.145846		
Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	162	0.193664	2.5	Pass
	-20	120	0.143455		
	-10	131	0.156605		
	0	141	0.168559		
	10	174	0.208010		
	20	160	0.191273		
	30	133	0.158996		
	40	138	0.164973		
	50	107	0.127914		
Reference Frequency: LTE Band 5(10MHz) Middle channel=20525Frequency=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	116	0.138673	2.5	Pass
	-20	112	0.133891		
	-10	104	0.124328		
	0	132	0.157800		
	10	138	0.164973		
	20	137	0.163778		
	30	144	0.172146		
	40	146	0.174537		
	50	128	0.153019		

LTE Band 12(QPSK):

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	193	0.272792	±2.5	Pass
	-20	105	0.148410		
	-10	162	0.228975		
	0	145	0.204947		
	10	143	0.202120		
	20	128	0.180919		
	30	166	0.234629		
	40	108	0.152650		
	50	117	0.165371		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	144	0.203534	±2.5	Pass
	-20	123	0.173852		
	-10	162	0.228975		
	0	168	0.237456		
	10	104	0.146996		
	20	117	0.165371		
	30	142	0.200707		
	40	136	0.192226		
	50	160	0.226148		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	122	0.172438	±2.5	Pass
	-20	130	0.183746		
	-10	151	0.213428		
	0	142	0.200707		
	10	162	0.228975		
	20	144	0.203534		
	30	120	0.169611		
	40	136	0.192226		
	50	138	0.195053		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	199	0.281272	±2.5	Pass
	-20	105	0.148410		
	-10	112	0.158304		
	0	136	0.192226		
	10	107	0.151237		
	20	126	0.178092		
	30	103	0.145583		
	40	141	0.199293		
	50	108	0.152650		

LTE Band 12(16QAM):

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	126	0.178092	±2.5	Pass
	-20	135	0.190813		
	-10	147	0.207774		
	0	123	0.173852		
	10	162	0.228975		
	20	142	0.200707		
	30	182	0.257244		
	40	171	0.241696		
	50	109	0.154064		

Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	123	0.173852	±2.5	Pass
	-20	120	0.169611		
	-10	151	0.213428		
	0	163	0.230389		
	10	147	0.207774		
	20	142	0.200707		
	30	108	0.152650		
	40	119	0.168198		
	50	180	0.254417		

Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	166	0.234629	2.5	Pass
	-20	132	0.186572		
	-10	144	0.203534		
	0	150	0.212014		
	10	170	0.240283		
	20	180	0.254417		
	30	120	0.169611		
	40	126	0.178092		
	50	128	0.180919		

Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	145	0.204947	2.5	Pass
	-20	123	0.173852		
	-10	128	0.180919		
	0	149	0.210601		
	10	114	0.161131		
	20	117	0.165371		
	30	108	0.152650		
	40	133	0.187986		
	50	139	0.196466		

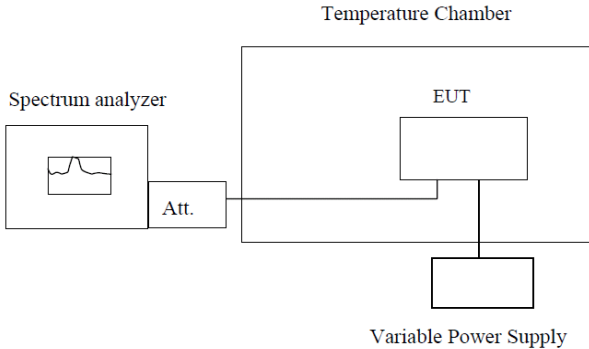
LTE Band 17(QPSK):

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	198	0.278873	±2.5	Pass
	-20	162	0.228169		
	-10	113	0.159155		
	0	126	0.177465		
	10	102	0.143662		
	20	107	0.150704		
	30	119	0.167606		
	40	128	0.180282		
	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	197	0.277465	±2.5	Pass
	-20	123	0.173239		
	-10	106	0.149296		
	0	188	0.264789		
	10	163	0.229577		
	20	105	0.147887		
	30	114	0.160563		
	40	128	0.180282		
	50	137	0.192958		

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	152	0.214085	±2.5	Pass
	-20	106	0.149296		
	-10	132	0.185915		
	0	107	0.150704		
	10	118	0.166197		
	20	144	0.202817		
	30	163	0.229577		
	40	122	0.171831		
	50	117	0.164789		
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	123	0.173239	±2.5	Pass
	-20	106	0.149296		
	-10	162	0.228169		
	0	104	0.146479		
	10	145	0.204225		
	20	120	0.169014		
	30	150	0.211268		
	40	144	0.202817		
	50	143	0.201408		

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		0.051064	±2.5	Pass
	3.70		0.041489		
	3.40		0.029255		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25		0.039362	±2.5	Pass
	3.70		0.047340		
	3.40		0.043617		
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		0.035638	±2.5	Pass
	3.70		0.032979		
	3.40		0.031383		
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		0.046809	±2.5	Pass
	3.70		0.044681		
	3.40		0.039894		
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		0.036702	±2.5	Pass
	3.70		0.033511		
	3.40		0.039894		
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		0.039362	±2.5	Pass
	3.70		0.045213		
	3.40		0.047340		

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		0.023936	±2.5	Pass
	3.70		0.041489		
	3.40		0.050532		
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		0.033511	±2.5	Pass
	3.70		0.031383		
	3.40		0.045213		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25		0.039362	±2.5	Pass
	3.70		0.045213		
	3.40		0.050532		
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		0.023936	±2.5	Pass
	3.70		0.045213		
	3.40		0.051064		
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		0.039362	±2.5	Pass
	3.70		0.042021		
	3.40		0.043617		
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		0.035106	±2.5	Pass
	3.70		0.051064		
	3.40		0.048936		

LTE Band 4(QPSK):

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		0.045022	±2.5	Pass
	3.70		0.045599		
	3.40		0.054834		
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		0.028283	±2.5	Pass
	3.70		0.033478		
	3.40		0.036364		
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		0.051371	±2.5	Pass
	3.70		0.049062		
	3.40		0.048485		
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		0.043290	±2.5	Pass
	3.70		0.042713		
	3.40		0.045599		
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	59	0.034055	±2.5	Pass
	3.70	58	0.033478		
	3.40	89	0.051371		
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		0.042713	±2.5	Pass
	3.70		0.055411		
	3.40		0.049062		

LTE Band 4(16QAM):

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		0.036364	±2.5	Pass
	3.70		0.043290		
	3.40		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		0.028283	±2.5	Pass
	3.70		0.054834		
	3.40		0.055988		
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		0.055411	±2.5	Pass
	3.70		0.033478		
	3.40		0.032900		
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		0.028283	±2.5	Pass
	3.70		0.050216		
	3.40		0.047330		
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		0.057143	±2.5	Pass
	3.70		0.058874		
	3.40		0.036364		
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		0.042713	±2.5	Pass
	3.70		0.045599		
	3.40		0.050794		

LTE Band 5(QPSK):

Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	55	0.065750	±2.5	Pass
	3.70	26	0.031082		
	3.40	84	0.100418		
Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	44	0.052600	±2.5	Pass
	3.70	85	0.101614		
	3.40	60	0.071727		
Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	44	0.052600	±2.5	Pass
	3.70	82	0.098027		
	3.40	96	0.114764		
Reference Frequency: LTE Band5(10MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	36	0.043036	±2.5	Pass
	3.70	56	0.066946		
	3.40	47	0.056186		

LTE Band 5(16QAM):

Reference Frequency: LTE Band 5(1.4MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	55	0.065750	±2.5	Pass
	3.70	58	0.069337		
	3.40	64	0.076509		
Reference Frequency: LTE Band 5(3MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	44	0.052600	±2.5	Pass
	3.70	48	0.057382		
	3.40	85	0.101614		
Reference Frequency: LTE Band 5(5MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	66	0.078900	±2.5	Pass
	3.70	38	0.045427		
	3.40	85	0.101614		
Reference Frequency: LTE Band 5(10MHz) Middle channel=20525Frequency=836.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	45	0.053796	±2.5	Pass
	3.70	67	0.080096		
	3.40	84	0.100418		

LTE Band 12(QPSK):

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	88	0.124382	±2.5	Pass
	3.70	56	0.079152		
	3.40	74	0.104594		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	49	0.069258	±2.5	Pass
	3.70	46	0.065018		
	3.40	85	0.120141		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	61	0.086219	±2.5	Pass
	3.70	69	0.097527		
	3.40	73	0.103180		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	78	0.110247	±2.5	Pass
	3.70	92	0.130035		
	3.40	94	0.132862		

LTE Band 12(16QAM):

LTE Band 12(20MHz)

Reference Frequency: LTE Band 12(1.4MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	66	0.093286	±2.5	Pass
	3.70	39	0.055124		
	3.40	95	0.134276		
Reference Frequency: LTE Band 12(3MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	48	0.067845	±2.5	Pass
	3.70	47	0.066431		
	3.40	68	0.096113		
Reference Frequency: LTE Band 12(5MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	90	0.127208	±2.5	Pass
	3.70	82	0.115901		
	3.40	74	0.104594		
Reference Frequency: LTE Band 12(10MHz) Middle channel=23095Frequency=707.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	69	0.097527	±2.5	Pass
	3.70	59	0.083392		
	3.40	84	0.118728		

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	65	0.091549	±2.5	Pass
	3.70	48	0.067606		
	3.40	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	99	0.139437	±2.5	Pass
	3.70	64	0.090141		
	3.40	48	0.067606		

LTE Band 17(16QAM):

Reference Frequency: LTE Band 17(5MHz) Middle channel=23790 channel=710.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	82	0.115493	±2.5	Pass
	3.70	64	0.090141		
	3.40	38	0.053521		
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	47	0.066197	±2.5	Pass
	3.70	98	0.138028		
	3.40	46	0.064789		

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