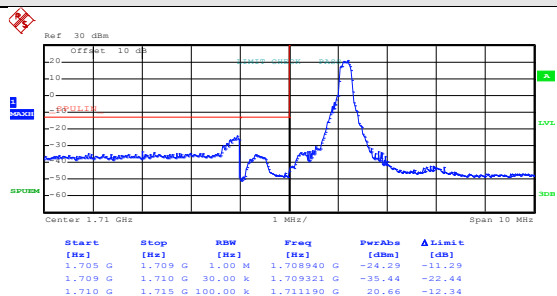


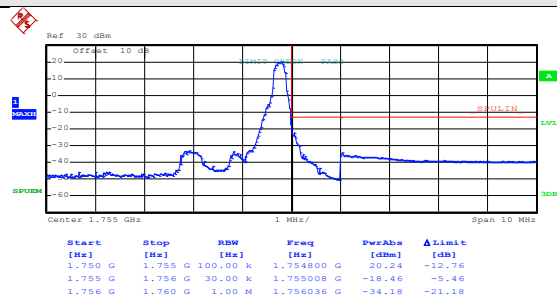
Test Mode:

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



Date: 11.APR.2017 21:06:49

Lowest channel

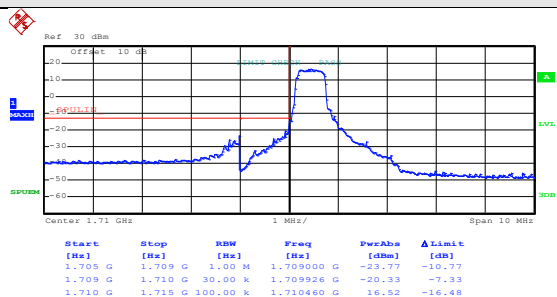


Date: 11.APR.2017 21:10:06

Highest channel

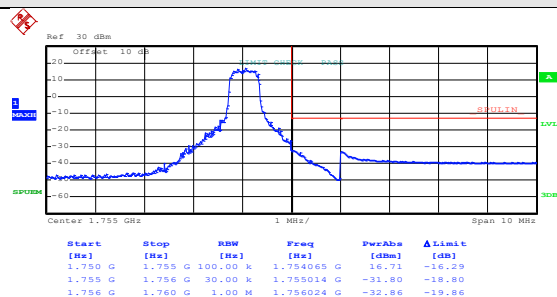
Test Mode:

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



Date: 11.APR.2017 21:38:06

Lowest channel

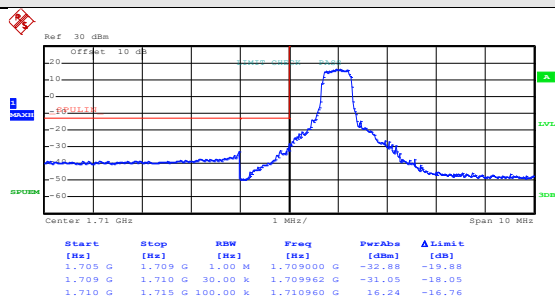


Date: 11.APR.2017 21:10:26

Highest channel

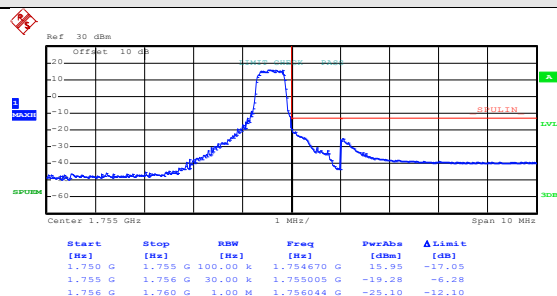
Test Mode:

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



Date: 11.APR.2017 21:38:23

Lowest channel

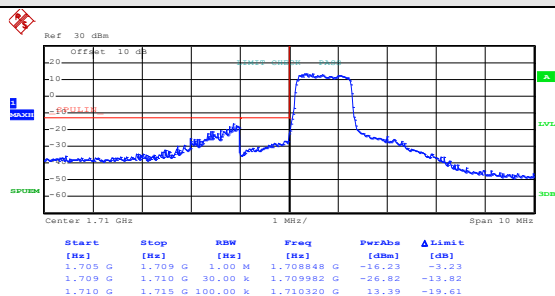


Date: 11.APR.2017 21:10:46

Highest channel

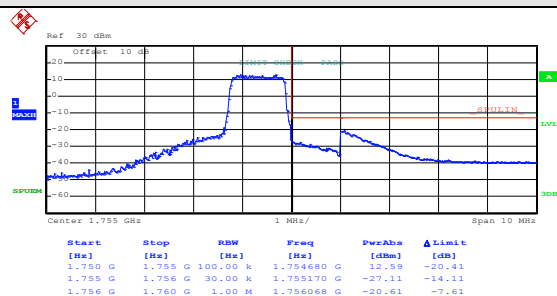
Test Mode:

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



Date: 11.APR.2017 21:07:11

Lowest channel



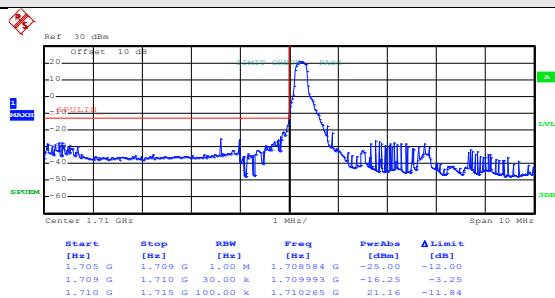
Date: 11.APR.2017 21:11:06

Highest channel

3MHz:

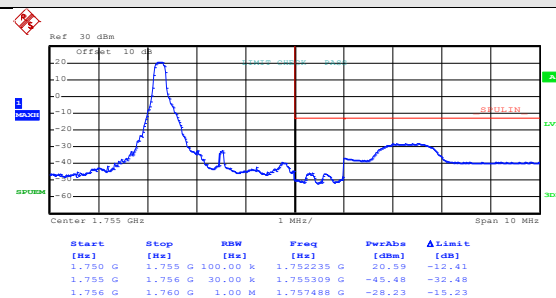
Test Mode:

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



Date: 11.APR.2017 21:11:58

Lowest channel

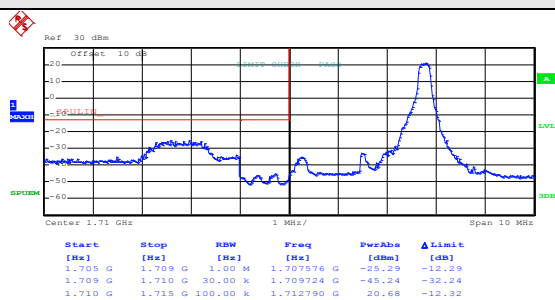


Date: 11.APR.2017 21:14:08

Highest channel

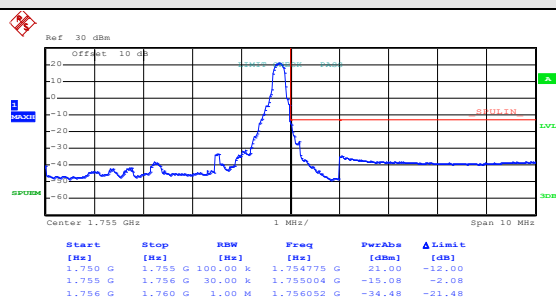
Test Mode:

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



Date: 11.APR.2017 21:12:20

Lowest channel

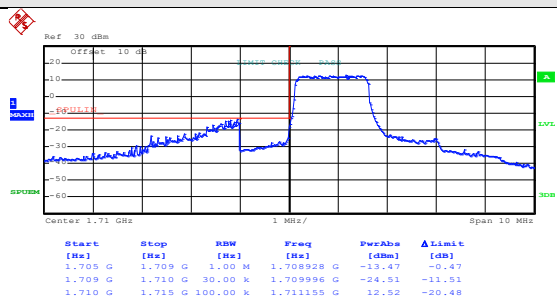


Date: 11.APR.2017 21:14:39

Highest channel

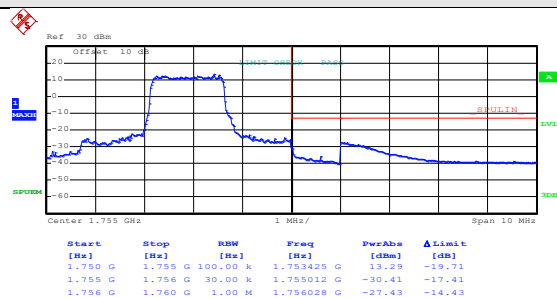
Test Mode:

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



Date: 11.APR.2017 21:12:51

Lowest channel

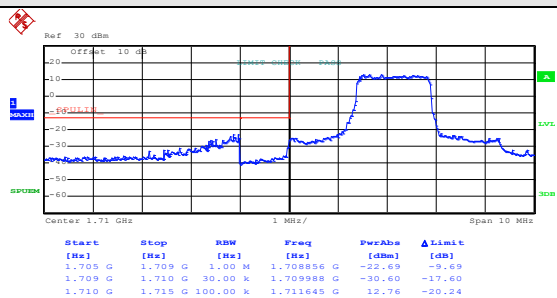


Date: 11.APR.2017 21:15:07

Highest channel

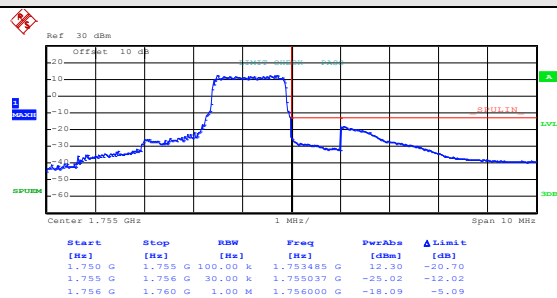
Test Mode:

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



Date: 11.APR.2017 21:13:10

Lowest channel

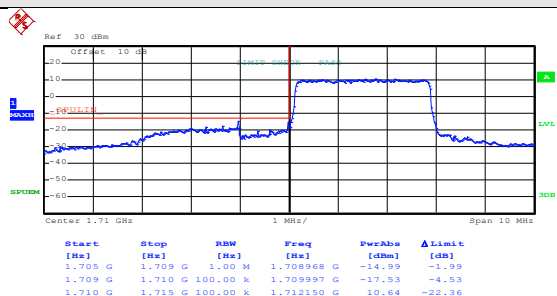


Date: 11.APR.2017 21:15:24

Highest channel

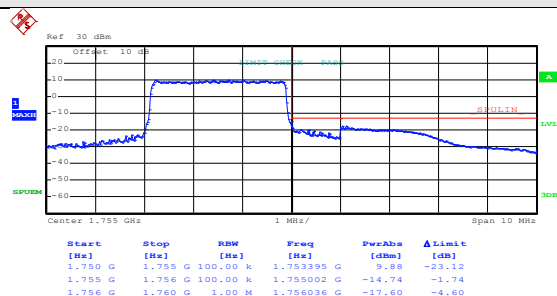
Test Mode:

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



Date: 11.APR.2017 21:13:36

Lowest channel

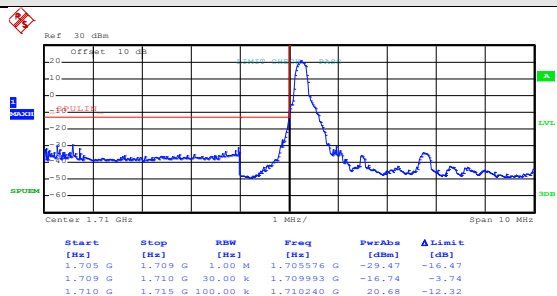


Date: 11.APR.2017 21:15:42

Highest channel

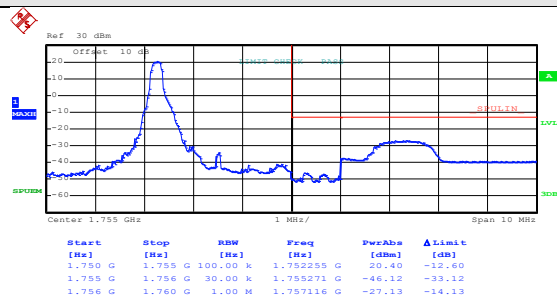
Test Mode:

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



Date: 11.APR.2017 21:12:10

Lowest channel

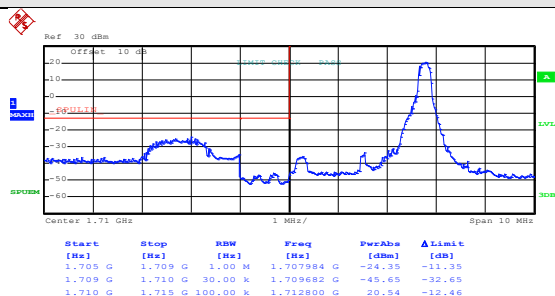


Date: 11.APR.2017 21:14:26

Highest channel

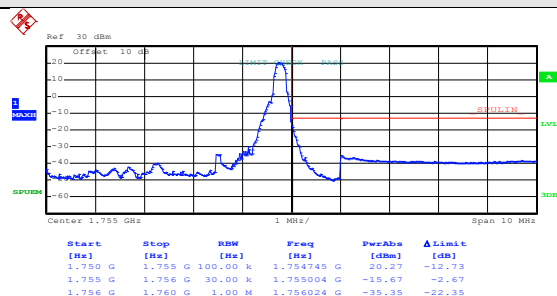
Test Mode:

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



Date: 11.APR.2017 21:12:28

Lowest channel

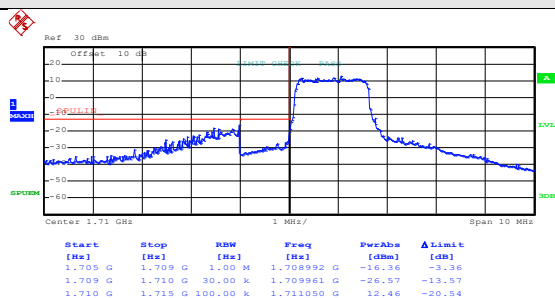


Date: 11.APR.2017 21:14:51

Highest channel

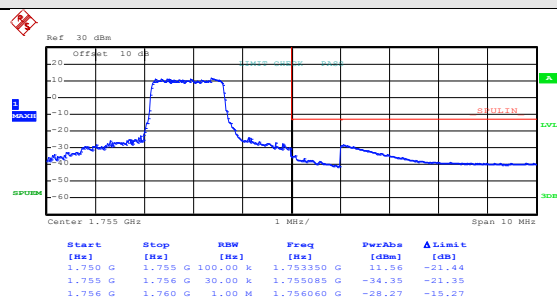
Test Mode:

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



Date: 11.APR.2017 21:12:59

Lowest channel

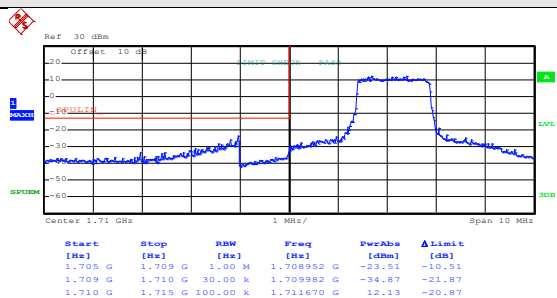


Date: 11.APR.2017 21:15:15

Highest channel

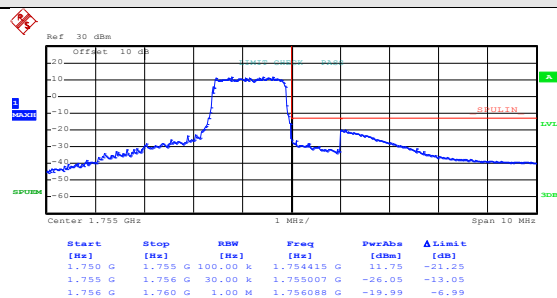
Test Mode:

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



Date: 11.APR.2017 21:13:16

Lowest channel

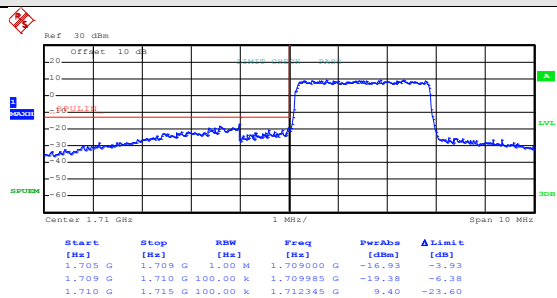


Date: 11.APR.2017 21:15:31

Highest channel

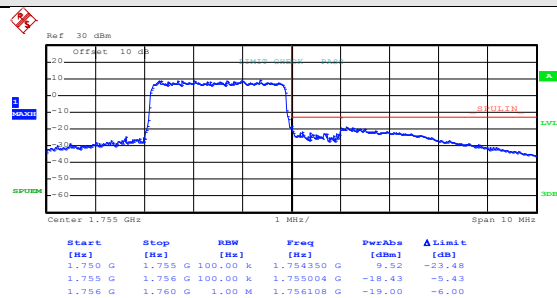
Test Mode:

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



Date: 11.APR.2017 21:13:41

Lowest channel



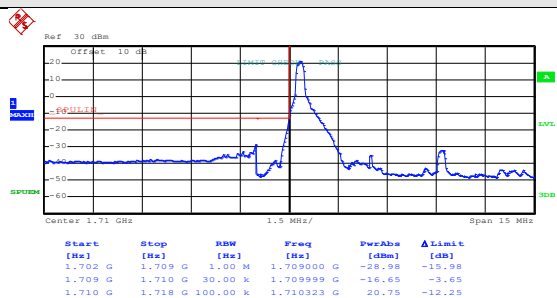
Date: 11.APR.2017 21:15:46

Highest channel

5MHz:

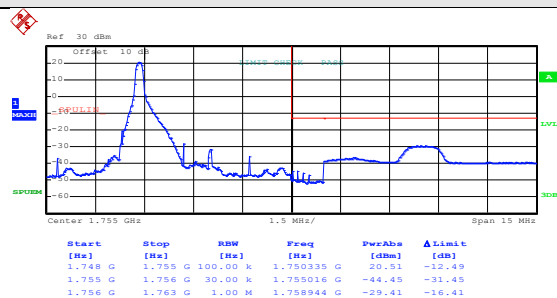
Test Mode:

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



Date: 11.APR.2017 21:16:36

Lowest channel

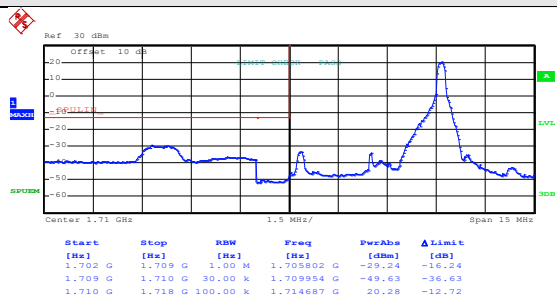


Date: 11.APR.2017 21:18:13

Highest channel

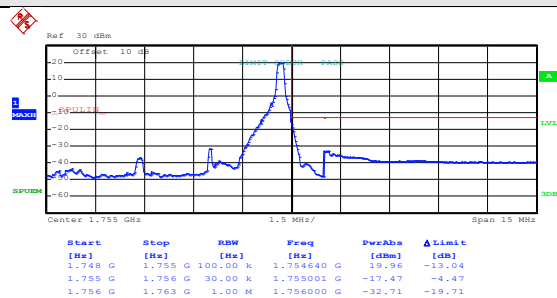
Test Mode:

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



Date: 11.APR.2017 21:16:54

Lowest channel

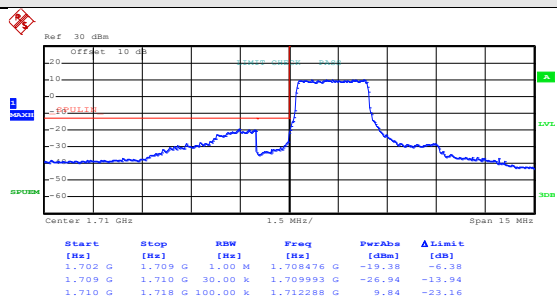


Date: 11.APR.2017 21:18:44

Highest channel

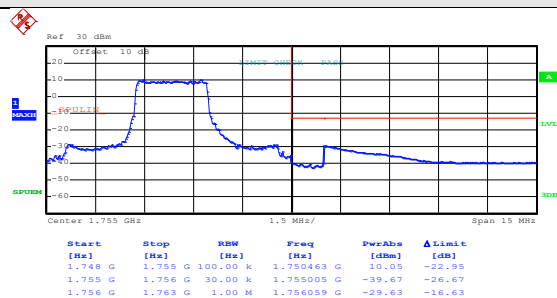
Test Mode:

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



Date: 11.APR.2017 21:17:14

Lowest channel

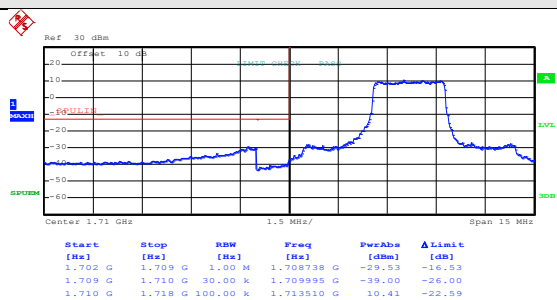


Date: 11.APR.2017 21:19:00

Highest channel

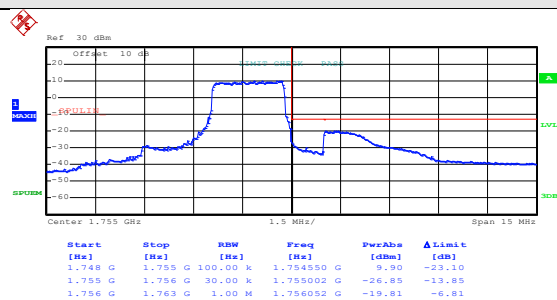
Test Mode:

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



Date: 11.APR.2017 21:17:28

Lowest channel

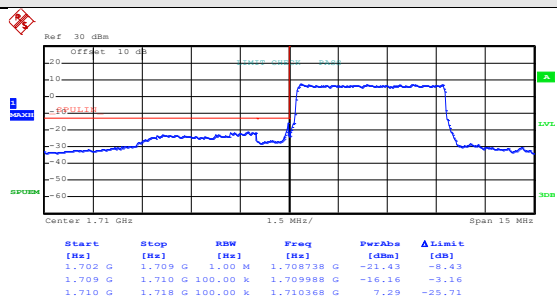


Date: 11.APR.2017 21:19:32

Highest channel

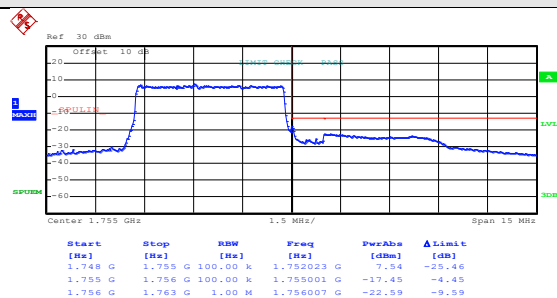
Test Mode:

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



Date: 11.APR.2017 21:17:52

Lowest channel

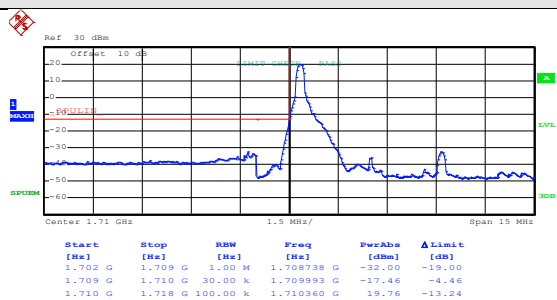


Date: 11.APR.2017 21:19:56

Highest channel

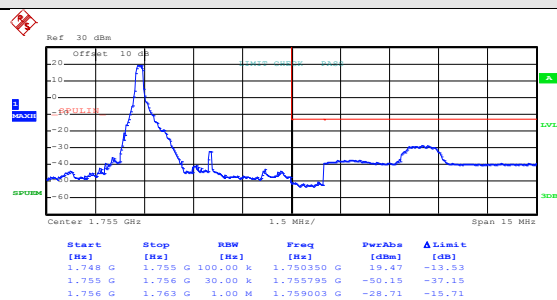
Test Mode:

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



Date: 11.APR.2017 21:16:46

Lowest channel

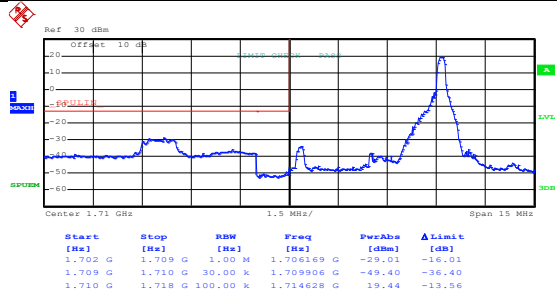


Date: 11.APR.2017 21:18:18

Highest channel

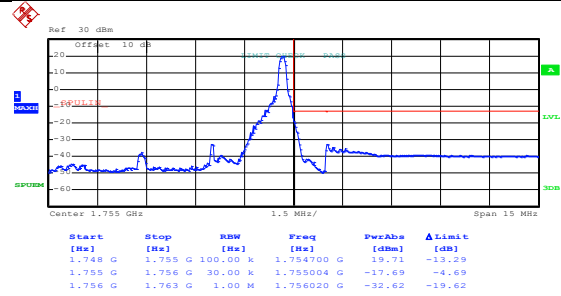
Test Mode:

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



Date: 11.APR.2017 21:17:03

Lowest channel

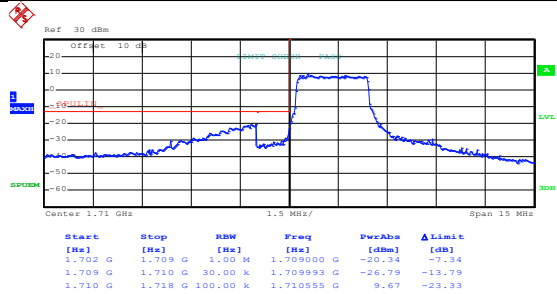


Date: 11.APR.2017 21:18:51

Highest channel

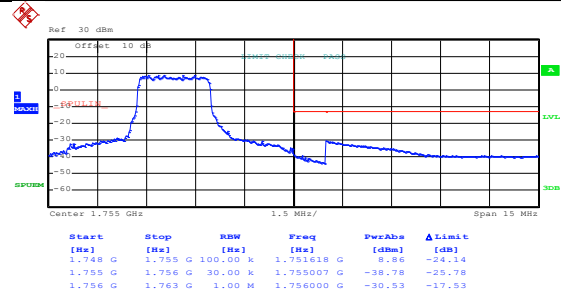
Test Mode:

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



Date: 11.APR.2017 21:17:19

Lowest channel

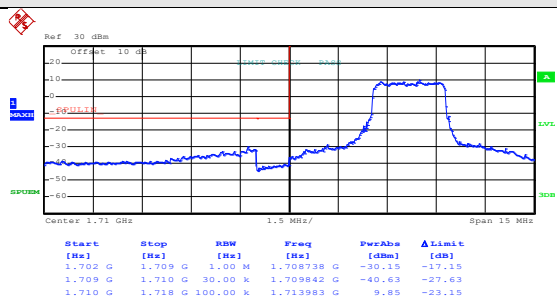


Date: 11.APR.2017 21:19:07

Highest channel

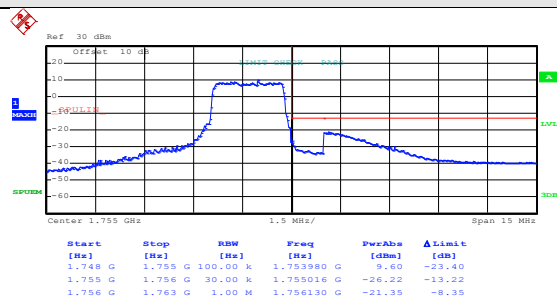
Test Mode:

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



Date: 11.APR.2017 21:17:36

Lowest channel

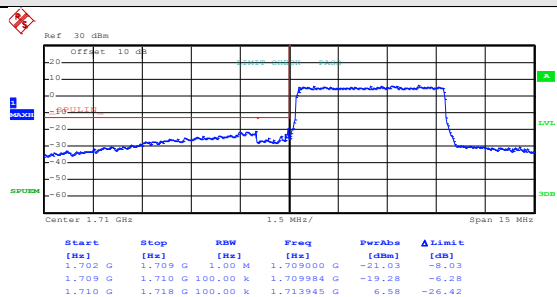


Date: 11.APR.2017 21:19:44

Highest channel

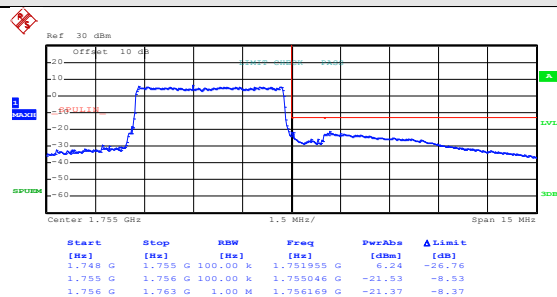
Test Mode:

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



Date: 11.APR.2017 21:17:55

Lowest channel



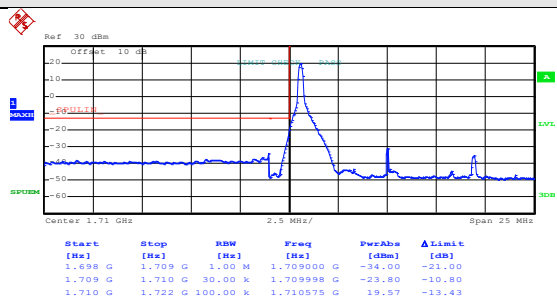
Date: 11.APR.2017 21:20:01

Highest channel

10MHz:

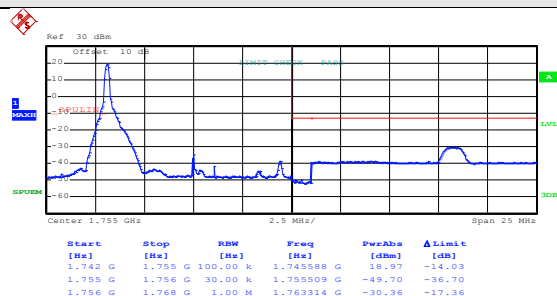
Test Mode:

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



Date: 11.APR.2017 21:20:58

Lowest channel

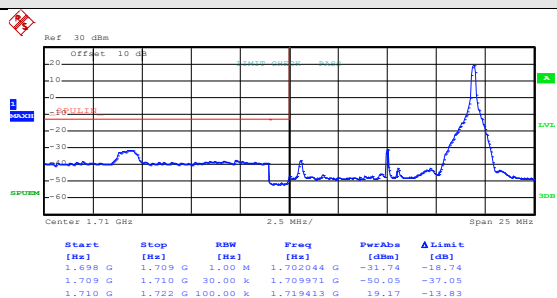


Date: 11.APR.2017 21:22:55

Highest channel

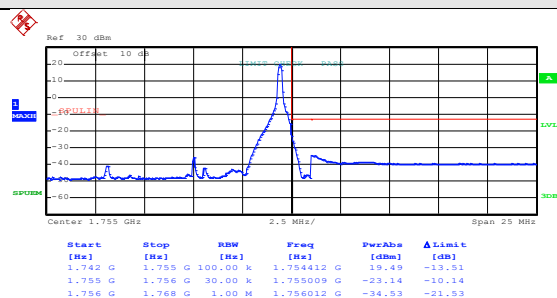
Test Mode:

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



Date: 11.APR.2017 21:21:13

Lowest channel

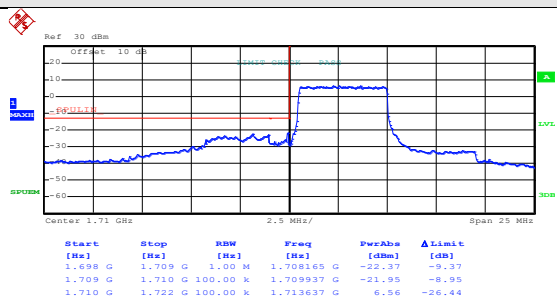


Date: 11.APR.2017 21:23:16

Highest channel

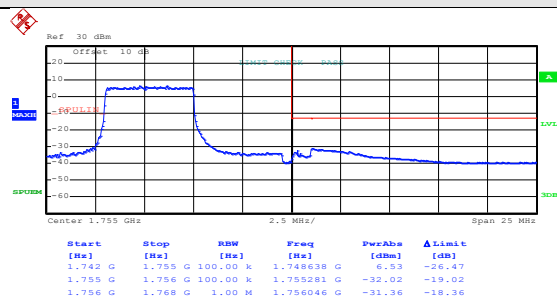
Test Mode:

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



Date: 11.APR.2017 21:21:42

Lowest channel

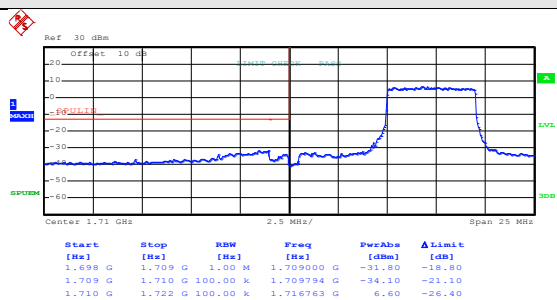


Date: 11.APR.2017 21:23:51

Highest channel

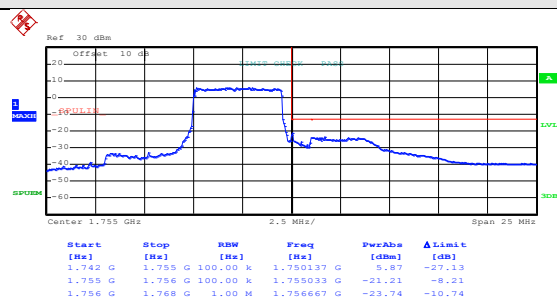
Test Mode:

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



Date: 11.APR.2017 21:22:03

Lowest channel

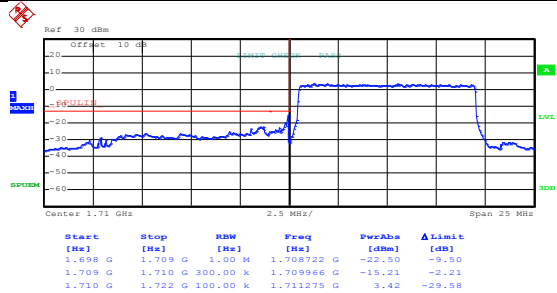


Date: 11.APR.2017 21:24:11

Highest channel

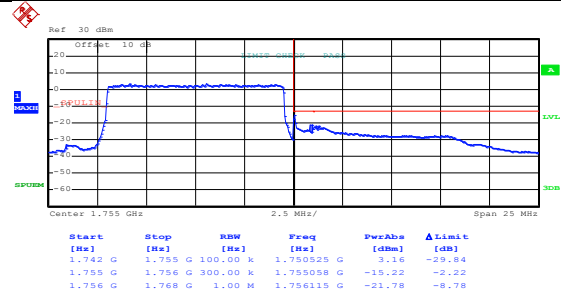
Test Mode:

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



Date: 11.APR.2017 21:22:22

Lowest channel

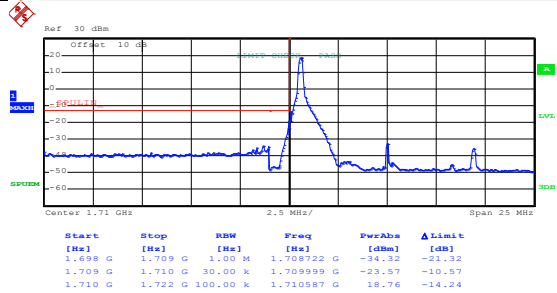


Date: 11.APR.2017 21:24:34

Highest channel

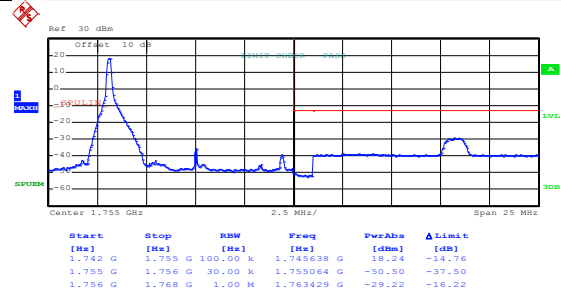
Test Mode:

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



Date: 11.APR.2017 21:21:05

Lowest channel

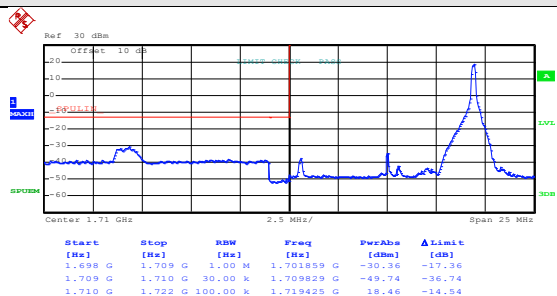


Date: 11.APR.2017 21:23:02

Highest channel

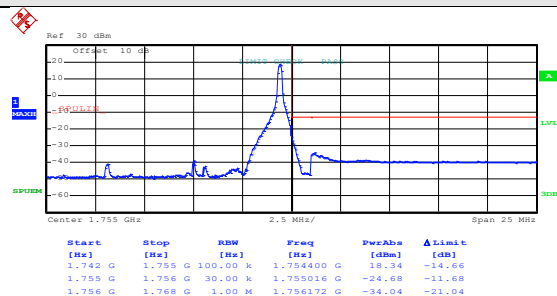
Test Mode:

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



Date: 11.APR.2017 21:21:20

Lowest channel

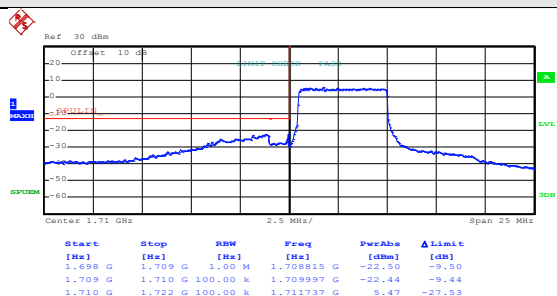


Date: 11.APR.2017 21:23:27

Highest channel

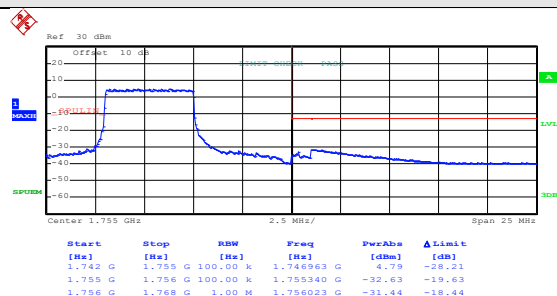
Test Mode:

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



Date: 11.APR.2017 21:21:53

Lowest channel

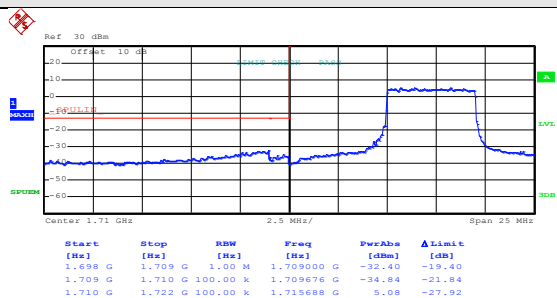


Date: 11.APR.2017 21:24:01

Highest channel

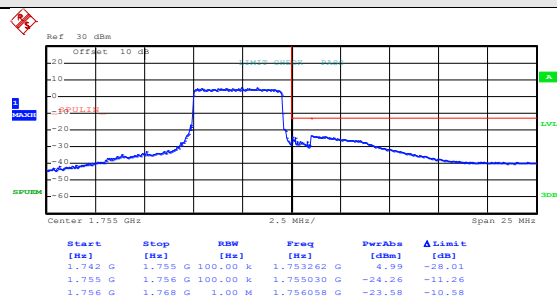
Test Mode:

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



Date: 11.APR.2017 21:22:10

Lowest channel

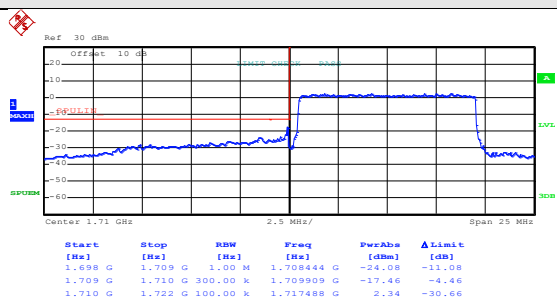


Date: 11.APR.2017 21:24:19

Highest channel

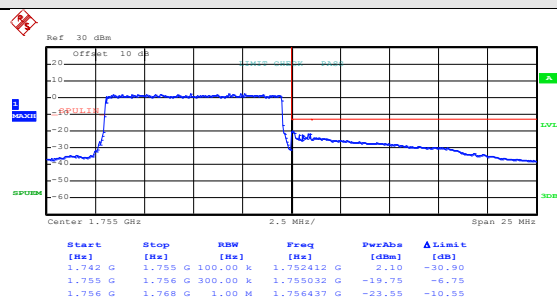
Test Mode:

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



Date: 11.APR.2017 21:22:26

Lowest channel

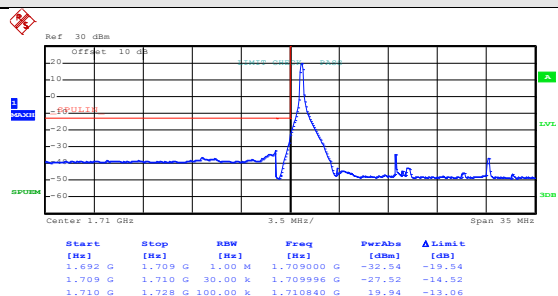


Date: 11.APR.2017 21:24:41

Highest channel

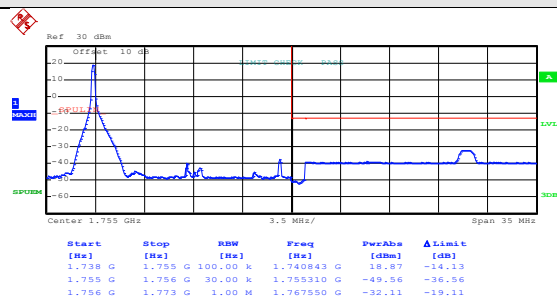
15MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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Date: 11.APR.2017 21:26:11

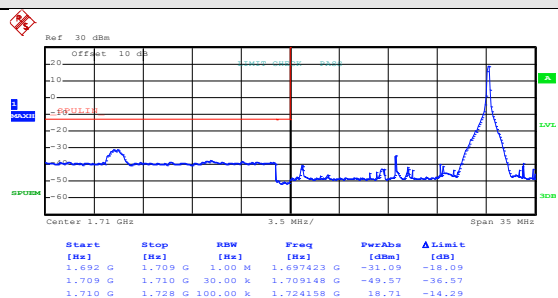
Lowest channel



Date: 11.APR.2017 21:28:26

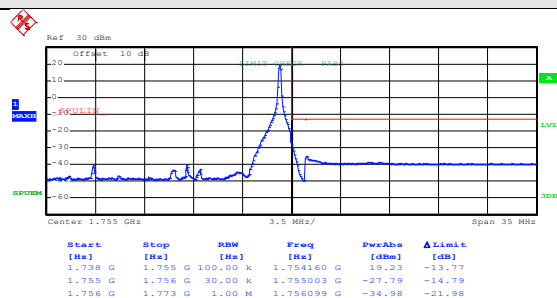
Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 74)
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Date: 11.APR.2017 21:26:40

Lowest channel

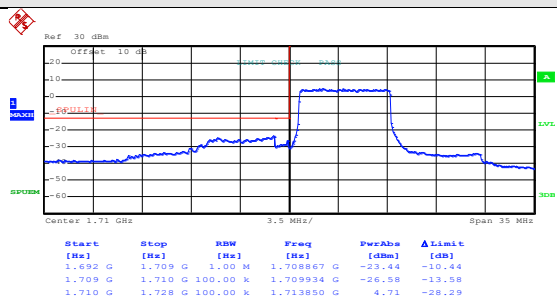


Date: 11.APR.2017 21:28:44

Highest channel

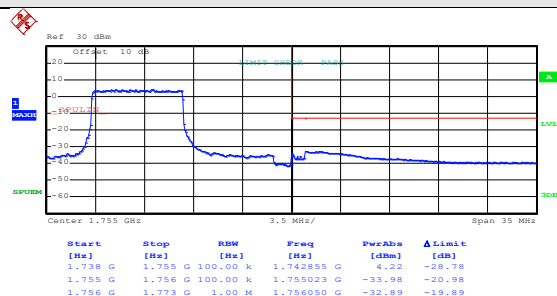
Test Mode:

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



Date: 11.APR.2017 21:27:12

Lowest channel

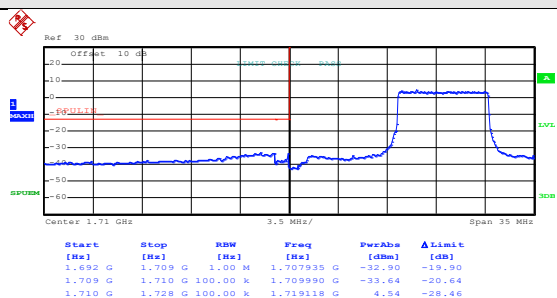


Date: 11.APR.2017 21:29:19

Highest channel

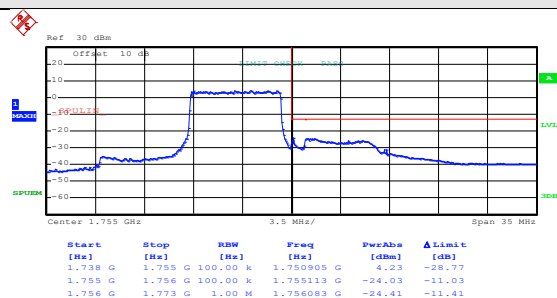
Test Mode:

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



Date: 11.APR.2017 21:27:34

Lowest channel

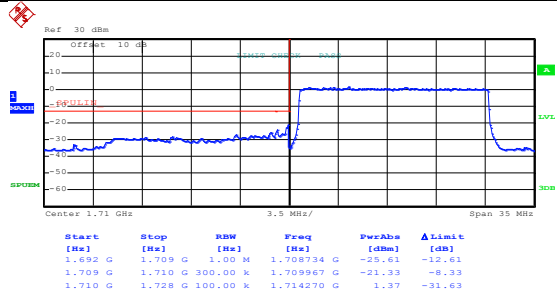


Date: 11.APR.2017 21:29:34

Highest channel

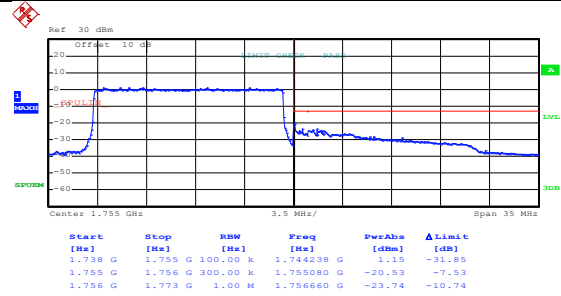
Test Mode:

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



Date: 11.APR.2017 21:27:59

Lowest channel

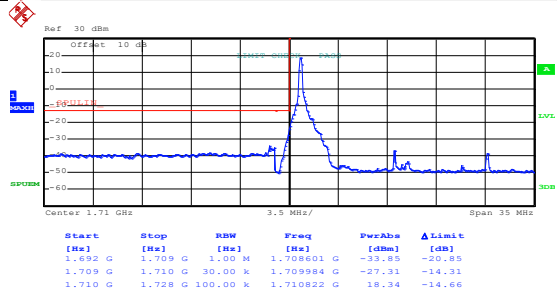


Date: 11.APR.2017 21:29:56

Highest channel

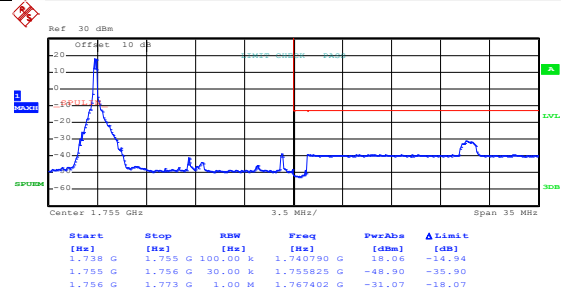
Test Mode:

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



Date: 11.APR.2017 21:26:19

Lowest channel

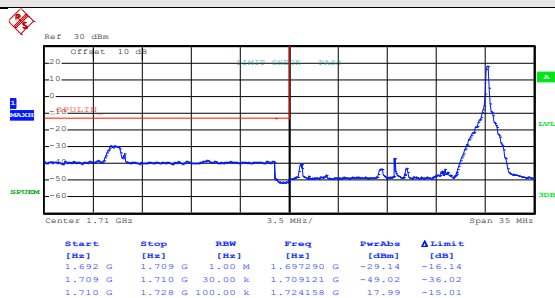


Date: 11.APR.2017 21:28:32

Highest channel

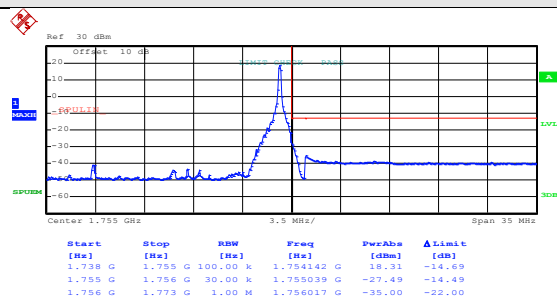
Test Mode:

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



Date: 11.APR.2017 21:26:51

Lowest channel

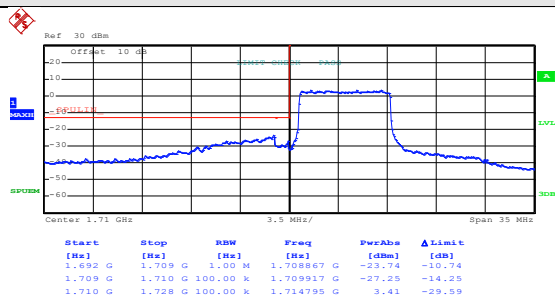


Date: 11.APR.2017 21:28:50

Highest channel

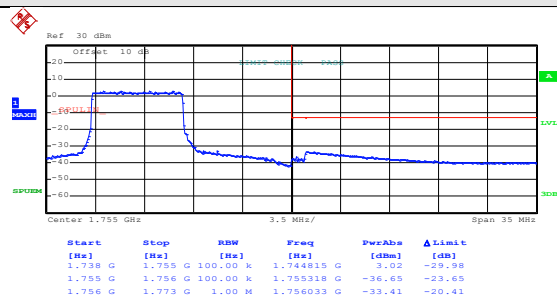
Test Mode:

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



Date: 11.APR.2017 21:27:23

Lowest channel

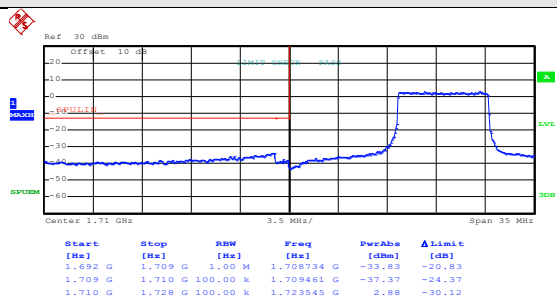


Date: 11.APR.2017 21:29:25

Highest channel

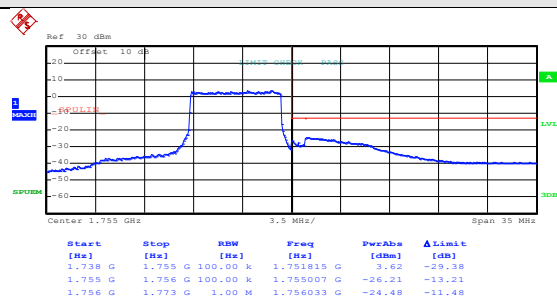
Test Mode:

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



Date: 11.APR.2017 21:27:42

Lowest channel

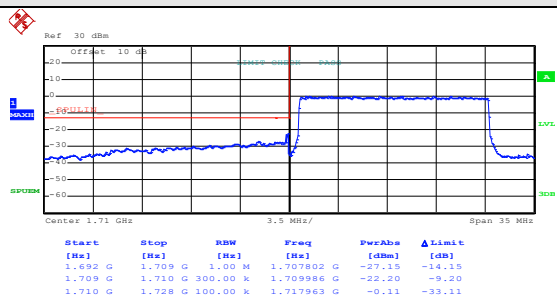


Date: 11.APR.2017 21:29:43

Highest channel

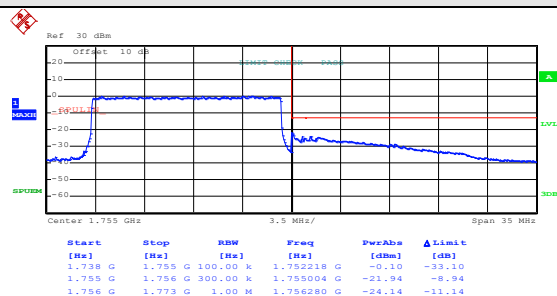
Test Mode:

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



Date: 11.APR.2017 21:28:03

Lowest channel

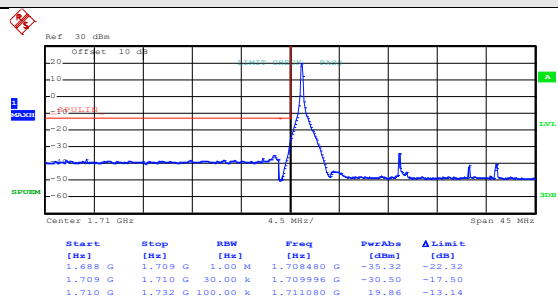


Date: 11.APR.2017 21:30:06

Highest channel

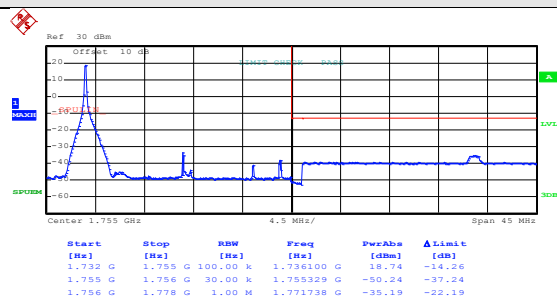
20MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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Date: 11.APR.2017 21:30:48

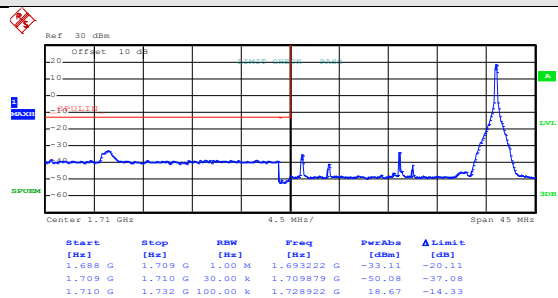
Lowest channel



Date: 11.APR.2017 21:33:41

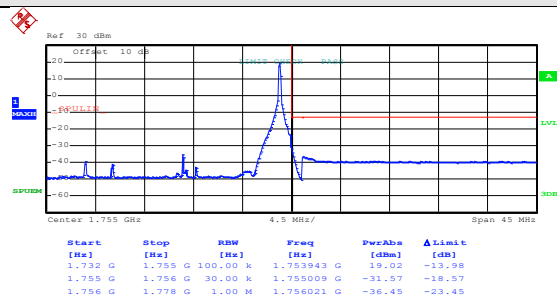
Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 99)
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Date: 11.APR.2017 21:31:03

Lowest channel

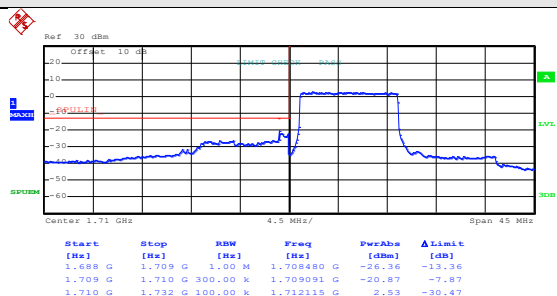


Date: 11.APR.2017 21:33:16

Highest channel

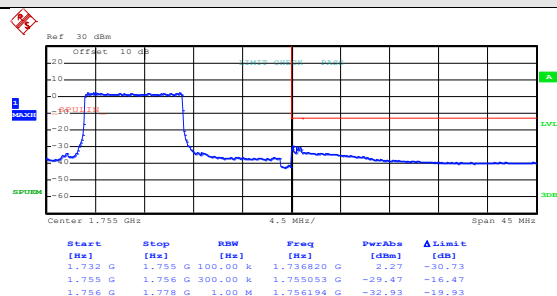
Test Mode:

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



Date: 11.APR.2017 21:31:39

Lowest channel

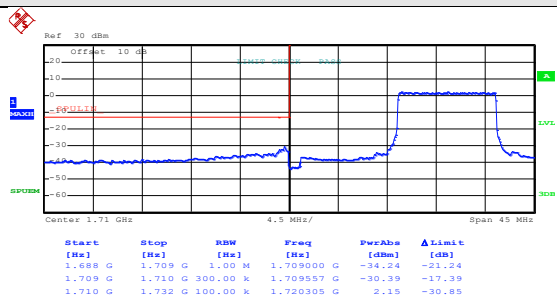


Date: 11.APR.2017 21:34:03

Highest channel

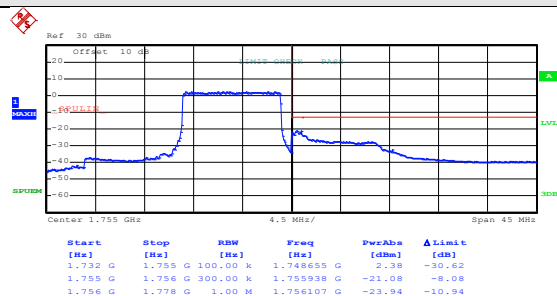
Test Mode:

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



Date: 11.APR.2017 21:31:56

Lowest channel

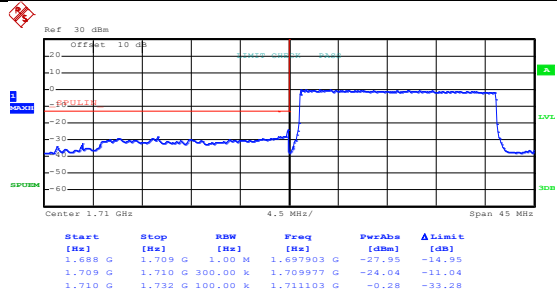


Date: 11.APR.2017 21:34:36

Highest channel

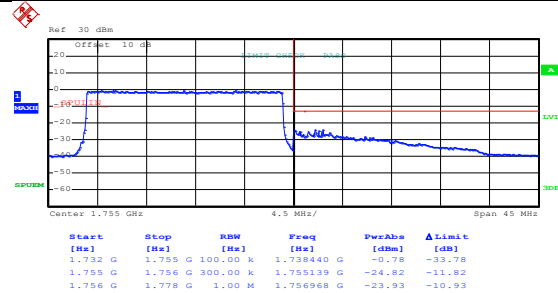
Test Mode:

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



Date: 11.APR.2017 21:32:16

Lowest channel

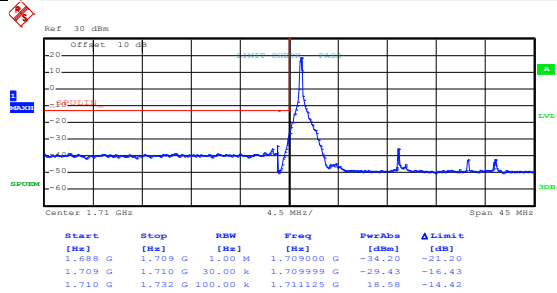


Date: 11.APR.2017 21:34:55

Highest channel

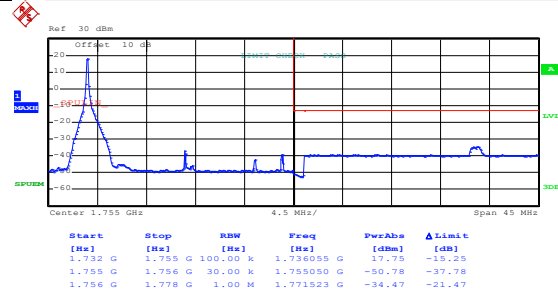
Test Mode:

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



Date: 11.APR.2017 21:30:55

Lowest channel

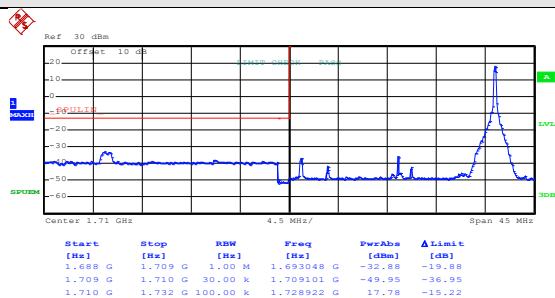


Date: 11.APR.2017 21:33:47

Highest channel

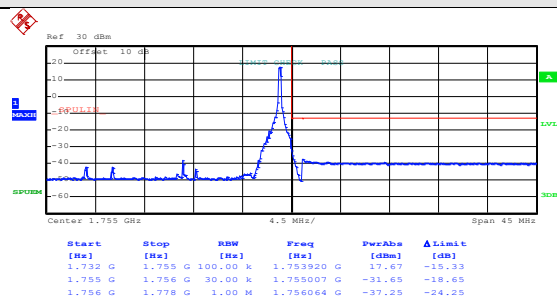
Test Mode:

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



Date: 11.APR.2017 21:31:15

Lowest channel

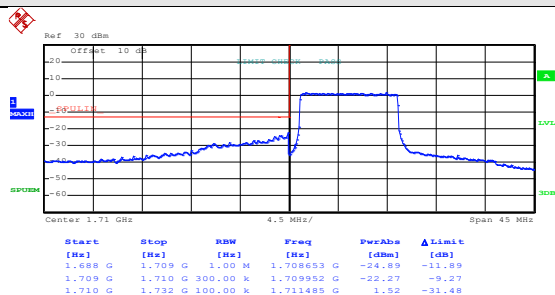


Date: 11.APR.2017 21:33:26

Highest channel

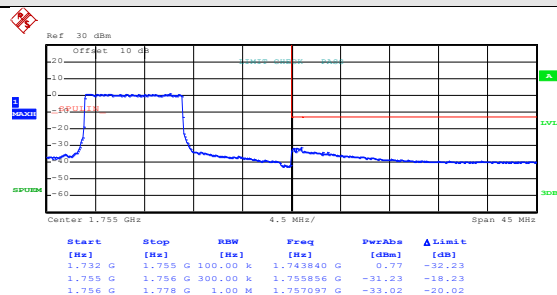
Test Mode:

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



Date: 11.APR.2017 21:31:46

Lowest channel

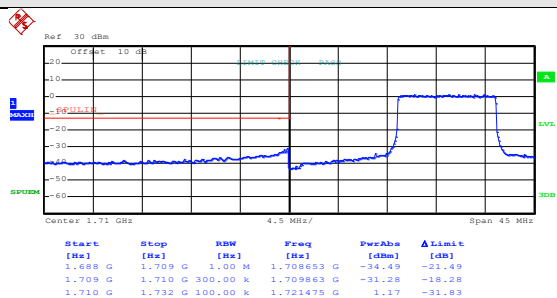


Date: 11.APR.2017 21:34:10

Highest channel

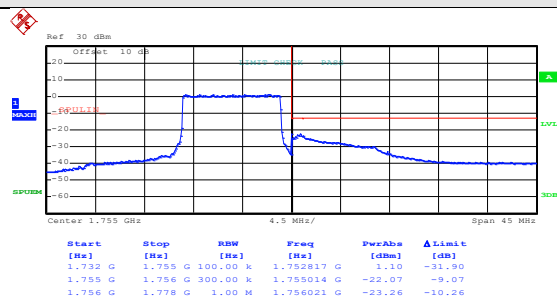
Test Mode:

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



Date: 11.APR.2017 21:32:04

Lowest channel

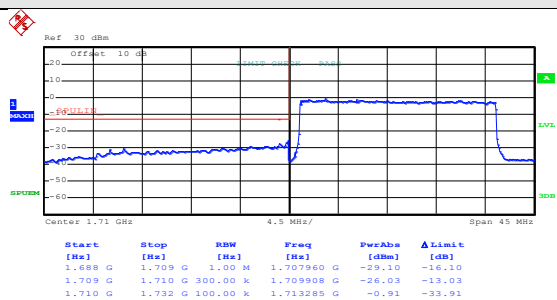


Date: 11.APR.2017 21:34:45

Highest channel

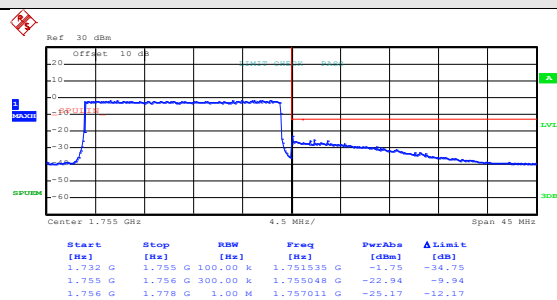
Test Mode:

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



Date: 11.APR.2017 21:32:22

Lowest channel



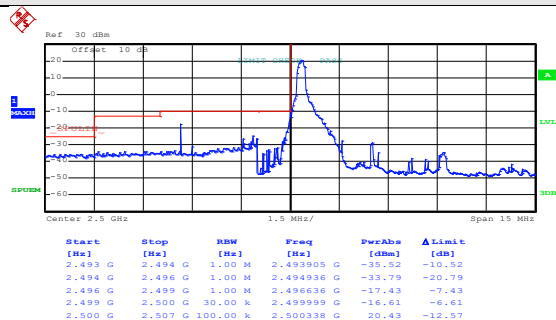
Date: 11.APR.2017 21:35:00

Highest channel

LTE band 7 part:

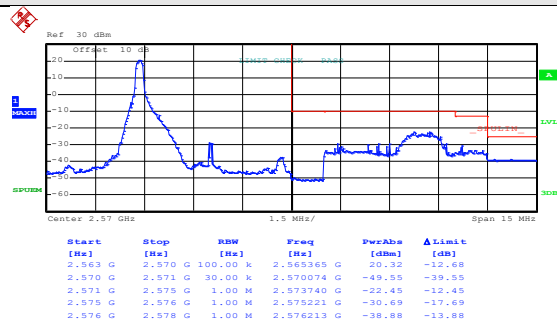
5MHz:

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 0)
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Date: 13.APR.2017 22:51:57

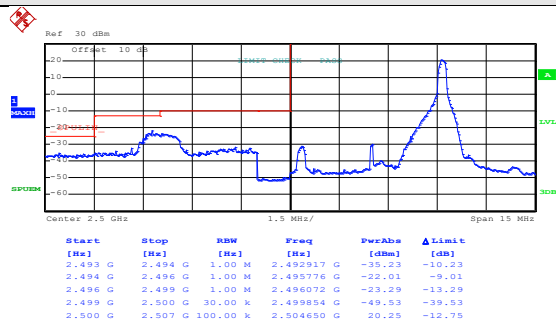
Lowest channel



Date: 13.APR.2017 22:54:06

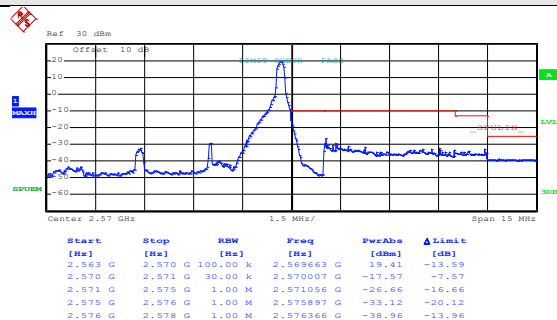
Highest channel

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 24)
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Date: 13.APR.2017 22:52:12

Lowest channel

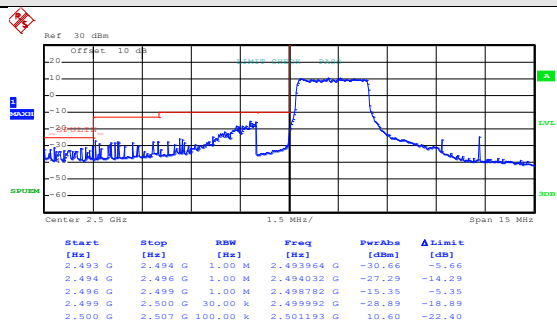


Date: 13.APR.2017 22:54:22

Highest channel

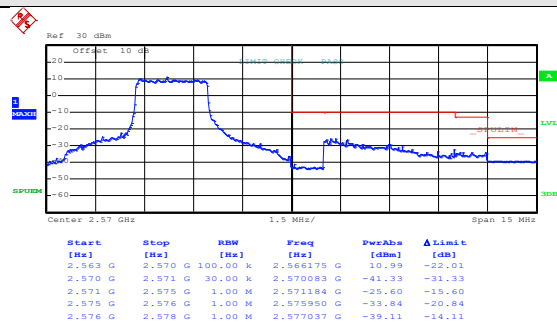
Test Mode:

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



Date: 13.APR.2017 22:52:49

Lowest channel

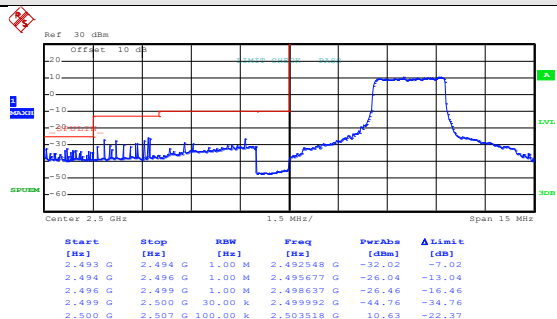


Date: 13.APR.2017 22:54:37

Highest channel

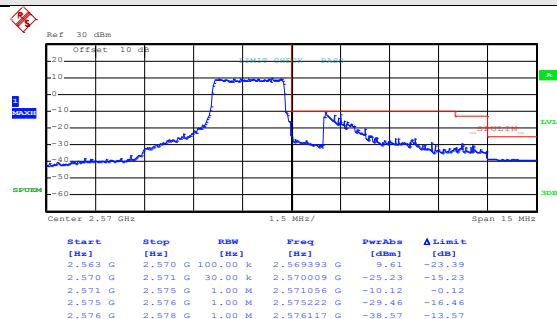
Test Mode:

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



Date: 13.APR.2017 22:53:09

Lowest channel

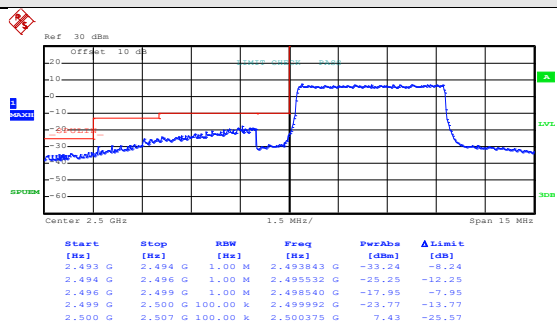


Date: 13.APR.2017 22:54:52

Highest channel

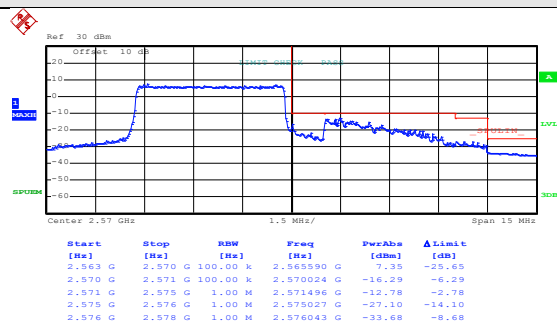
Test Mode:

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



Date: 13.APR.2017 22:53:29

Lowest channel

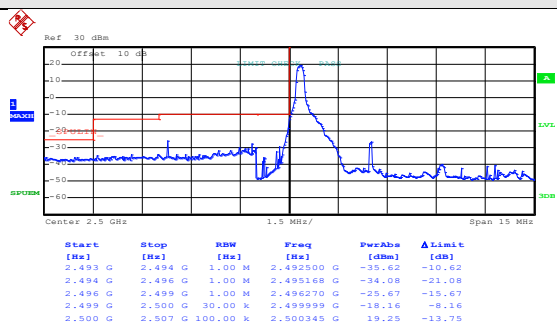


Date: 13.APR.2017 22:55:15

Highest channel

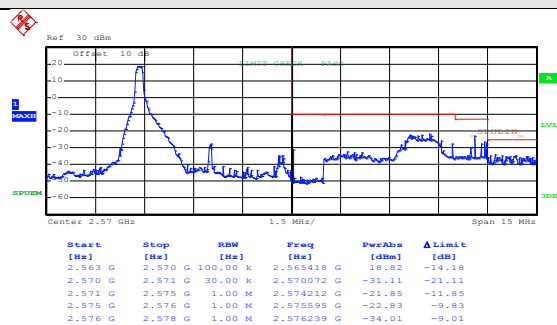
Test Mode:

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



Date: 13.APR.2017 22:52:04

Lowest channel

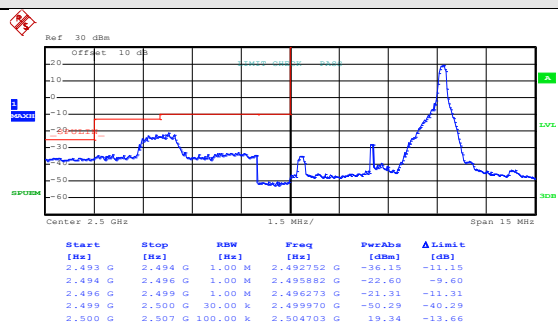


Date: 13.APR.2017 22:54:12

Highest channel

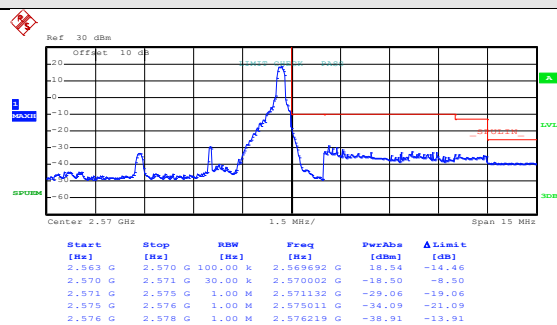
Test Mode:

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



Date: 13.APR.2017 22:52:24

Lowest channel

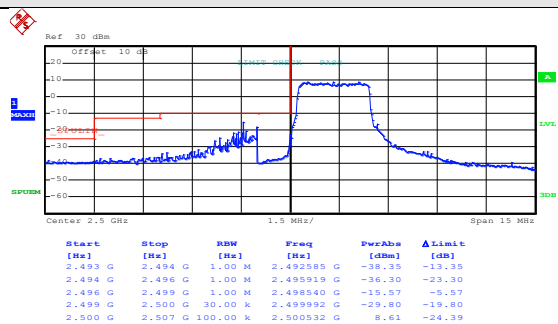


Date: 13.APR.2017 22:54:28

Highest channel

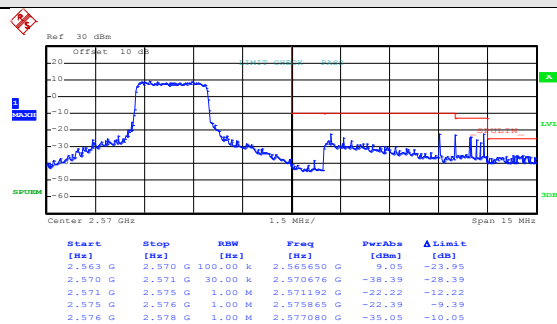
Test Mode:

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



Date: 13.APR.2017 22:52:55

Lowest channel

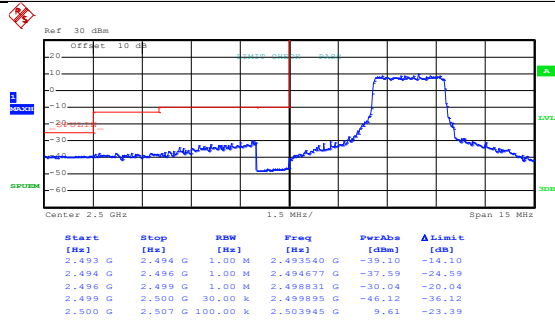


Date: 13.APR.2017 22:54:43

Highest channel

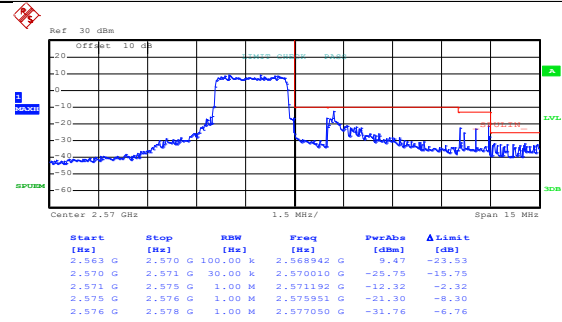
Test Mode:

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



Date: 13.APR.2017 22:53:17

Lowest channel

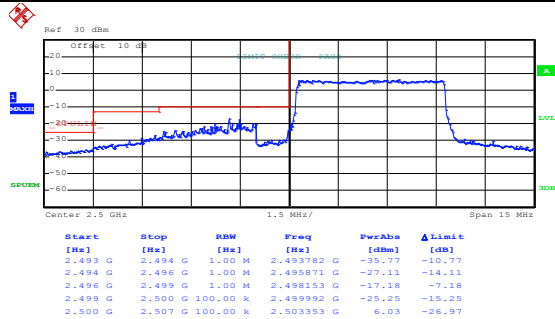


Date: 13.APR.2017 22:55:00

Highest channel

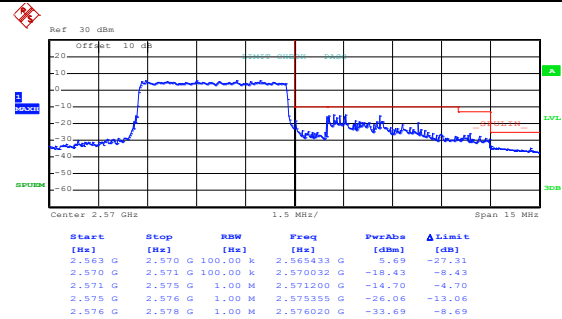
Test Mode:

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



Date: 13.APR.2017 22:53:38

Lowest channel

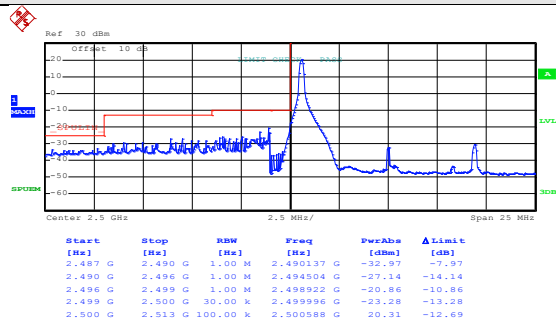


Date: 13.APR.2017 22:55:20

Highest channel

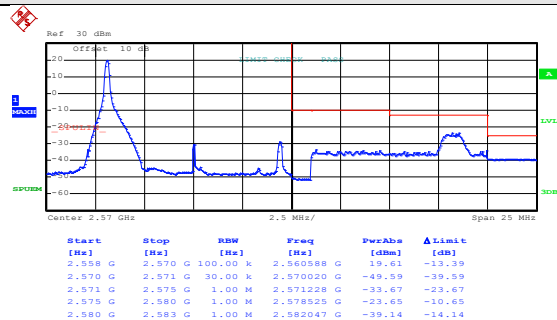
10MHz:

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 0)
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Date: 13.APR.2017 22:56:36

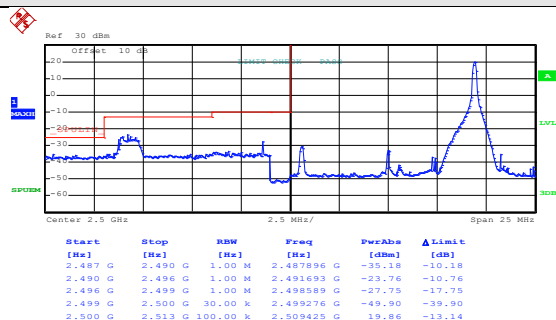
Lowest channel



Date: 13.APR.2017 22:58:22

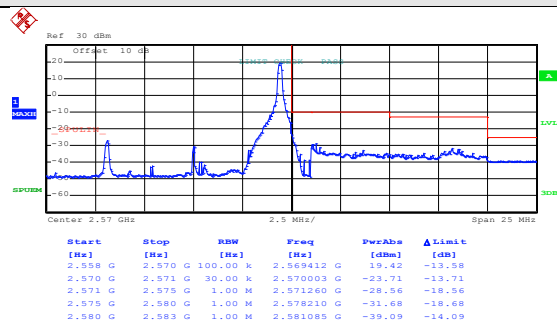
Highest channel

Test Mode:	LTE band 7(QPSK RB Size 1 & RB Offset 49)
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Date: 13.APR.2017 22:56:50

Lowest channel

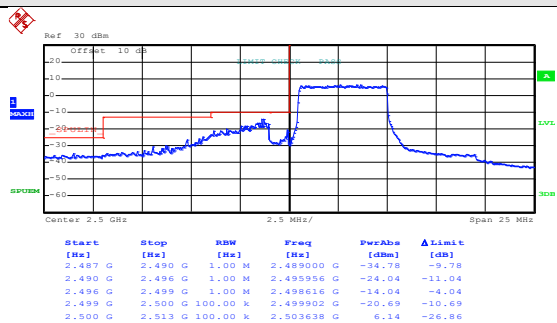


Date: 13.APR.2017 22:58:36

Highest channel

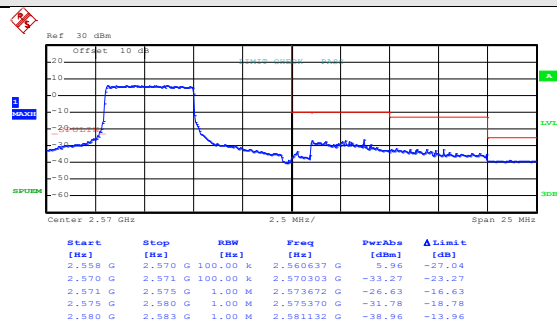
Test Mode:

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



Date: 13.APR.2017 22:57:14

Lowest channel

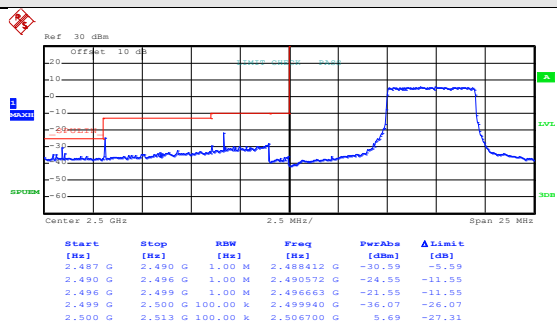


Date: 13.APR.2017 22:59:01

Highest channel

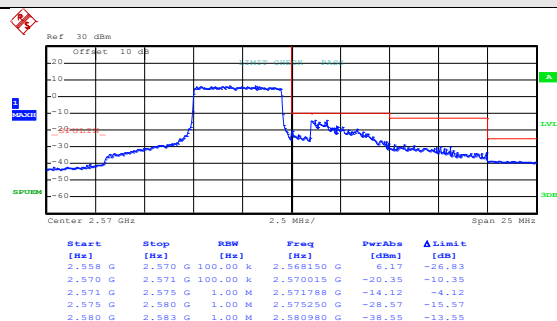
Test Mode:

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



Date: 13.APR.2017 22:57:28

Lowest channel

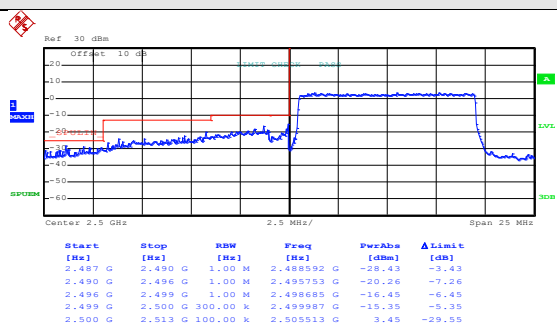


Date: 13.APR.2017 22:59:15

Highest channel

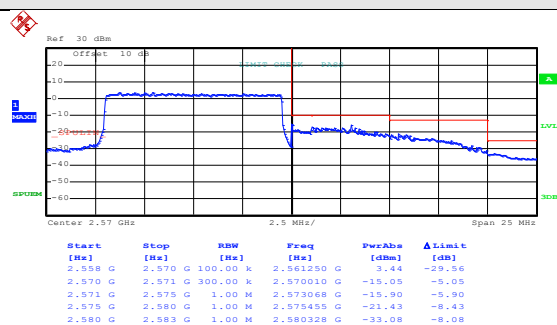
Test Mode:

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



Date: 13.APR.2017 22:57:49

Lowest channel

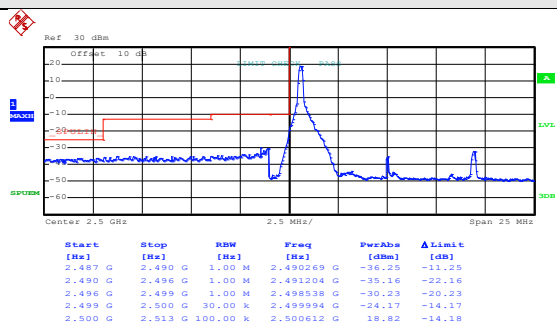


Date: 13.APR.2017 22:59:35

Highest channel

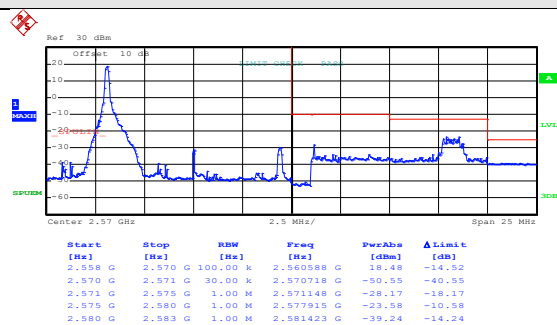
Test Mode:

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



Date: 13.APR.2017 22:56:42

Lowest channel

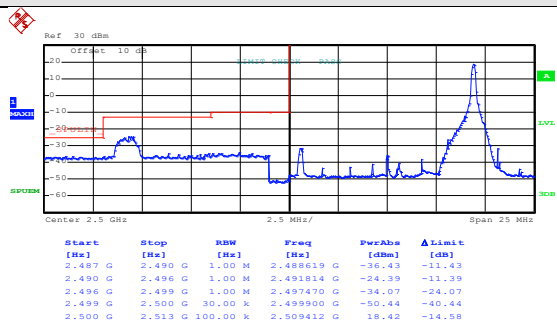


Date: 13.APR.2017 22:58:28

Highest channel

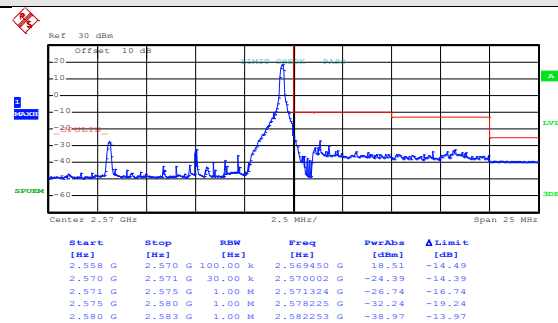
Test Mode:

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



Date: 13.APR.2017 22:57:01

Lowest channel

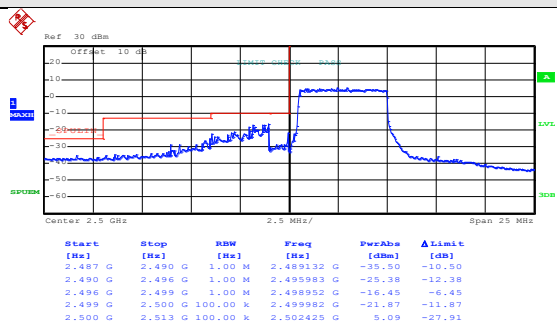


Date: 13.APR.2017 22:58:43

Highest channel

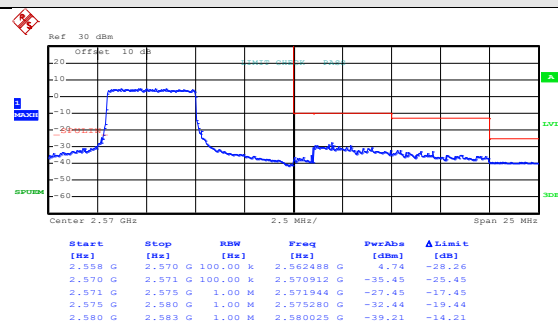
Test Mode:

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



Date: 13.APR.2017 22:57:20

Lowest channel

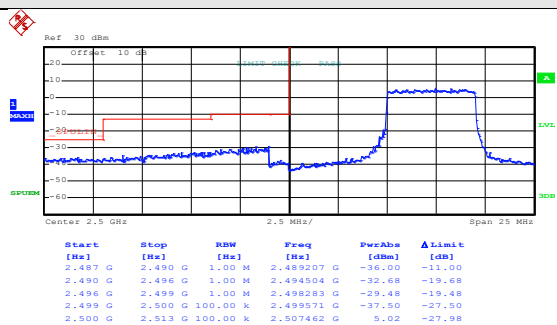


Date: 13.APR.2017 22:59:07

Highest channel

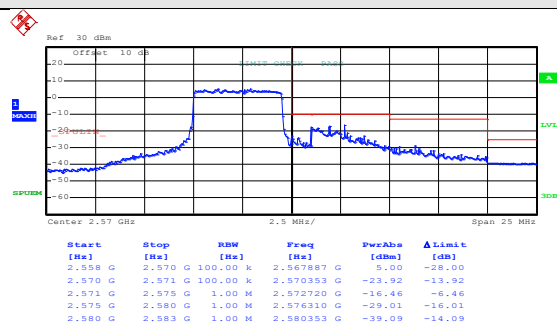
Test Mode:

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



Date: 13.APR.2017 22:57:35

Lowest channel

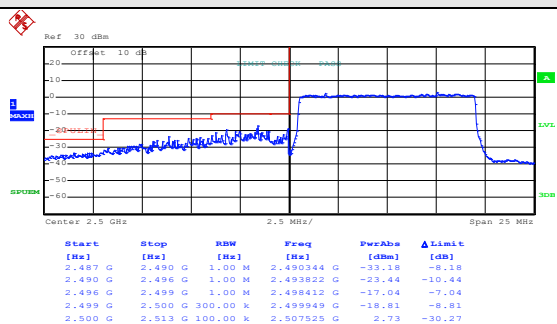


Date: 13.APR.2017 22:59:22

Highest channel

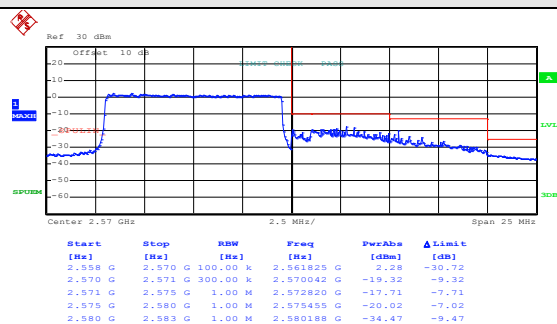
Test Mode:

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



Date: 13.APR.2017 22:57:55

Lowest channel



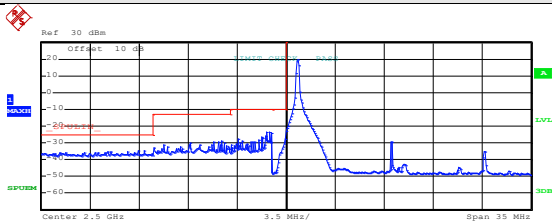
Date: 13.APR.2017 22:59:40

Highest channel

15MHz:

Test Mode:

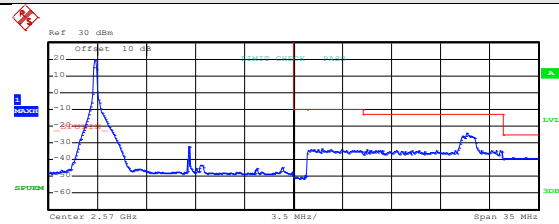
LTE band 7(QPSK RB Size 1 & RB Offset 0)



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	Δ Limit [dB]
2.482 G	2.490 G	1.00 M	2.489820 G	-34.75	-9.75
2.490 G	2.496 G	1.00 M	2.493446 G	-28.50	-15.50
2.496 G	2.499 G	1.00 M	2.498826 G	-23.26	-13.26
2.499 G	2.500 G	30.00 k	2.499997 G	-27.52	-17.52
2.500 G	2.518 G	100.00 k	2.500840 G	19.75	-13.25

Date: 13.APR.2017 23:00:32

Lowest channel



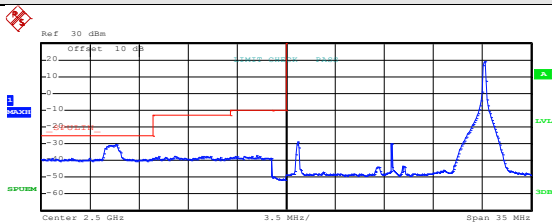
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	Δ Limit [dB]
2.553 G	2.570 G	100.00 k	2.555842 G	19.68	-13.32
2.570 G	2.571 G	30.00 k	2.570846 G	-48.97	-38.97
2.571 G	2.575 G	1.00 M	2.571996 G	-33.70	-23.70
2.575 G	2.585 G	1.00 M	2.582400 G	-24.37	-11.37
2.585 G	2.587 G	1.00 M	2.586558 G	-38.98	-13.98

Date: 15.APR.2017 13:09:24

Highest channel

Test Mode:

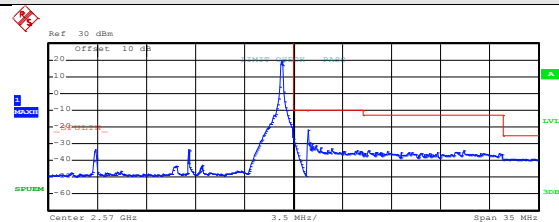
LTE band 7(QPSK RB Size 1 & RB Offset 74)



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	Δ Limit [dB]
2.482 G	2.490 G	1.00 M	2.487726 G	-30.66	-5.66
2.490 G	2.496 G	1.00 M	2.494048 G	-37.47	-24.47
2.496 G	2.499 G	1.00 M	2.497887 G	-37.17	-27.17
2.499 G	2.500 G	30.00 k	2.499076 G	-49.44	-39.44
2.500 G	2.518 G	100.00 k	2.514175 G	19.02	-13.98

Date: 13.APR.2017 23:00:58

Lowest channel



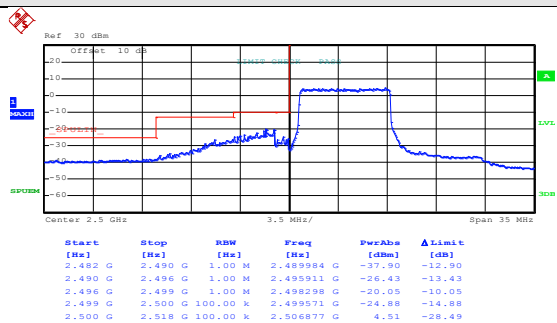
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	Δ Limit [dB]
2.553 G	2.570 G	100.00 k	2.569177 G	19.51	-13.49
2.570 G	2.571 G	30.00 k	2.570004 G	-27.08	-17.08
2.571 G	2.575 G	1.00 M	2.571032 G	-21.64	-11.64
2.575 G	2.585 G	1.00 M	2.575400 G	-33.89	-20.89
2.585 G	2.587 G	1.00 M	2.586352 G	-39.10	-14.10

Date: 15.APR.2017 13:09:41

Highest channel

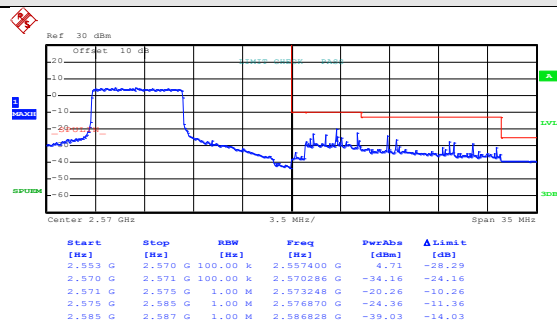
Test Mode:

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



Date: 13.APR.2017 23:01:29

Lowest channel

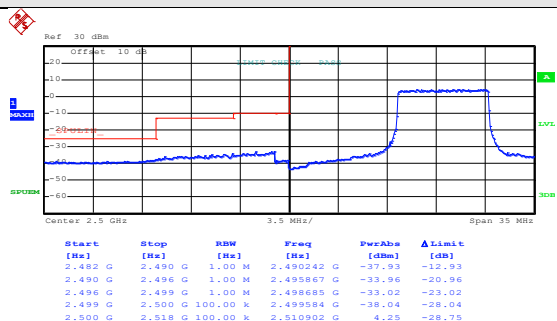


Date: 15.APR.2017 13:10:14

Highest channel

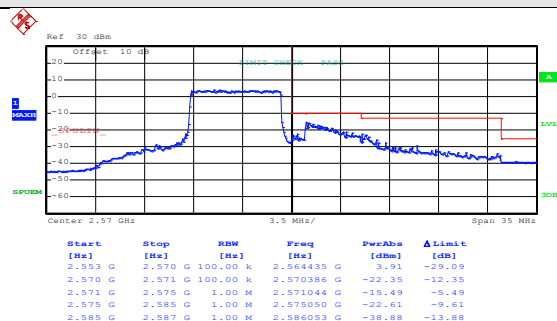
Test Mode:

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



Date: 13.APR.2017 23:02:01

Lowest channel

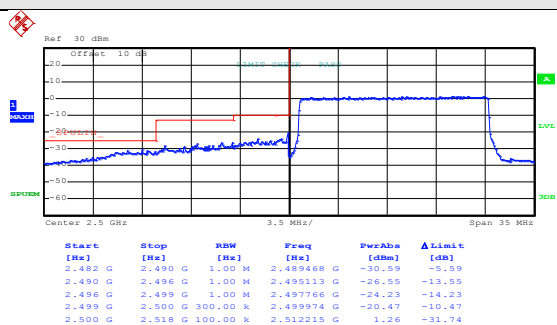


Date: 15.APR.2017 13:10:36

Highest channel

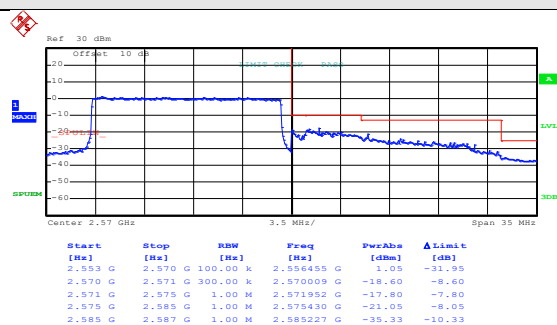
Test Mode:

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



Date: 13.APR.2017 23:02:35

Lowest channel

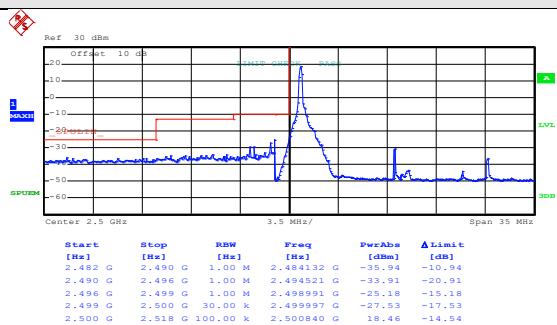


Date: 15.APR.2017 13:11:01

Highest channel

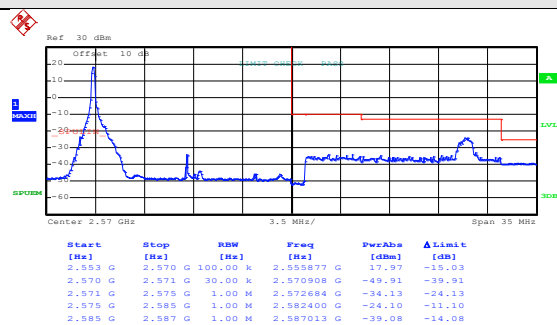
Test Mode:

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



Date: 13.APR.2017 23:00:38

Lowest channel

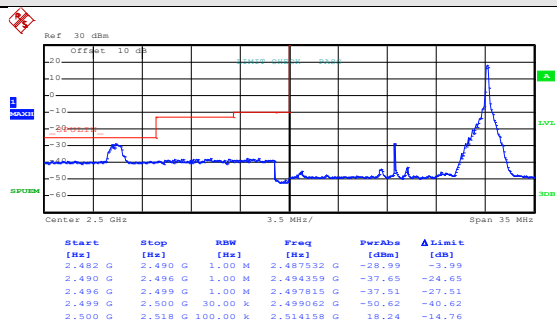


Date: 15.APR.2017 13:09:32

Highest channel

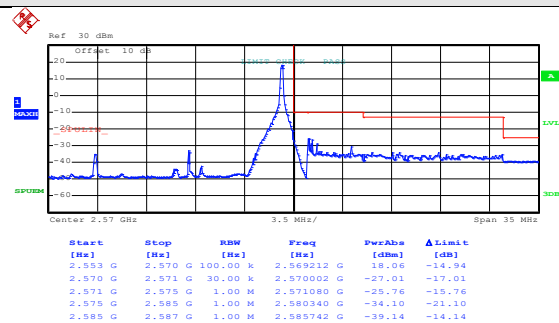
Test Mode:

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



Date: 13.APR.2017 23:01:07

Lowest channel

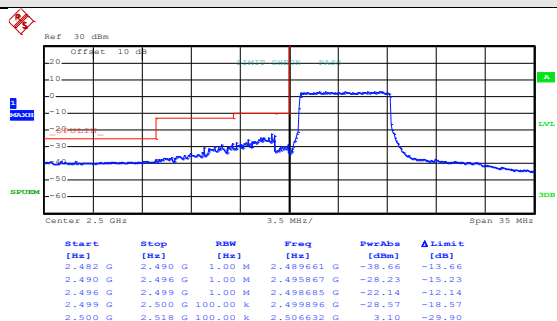


Date: 15.APR.2017 13:09:54

Highest channel

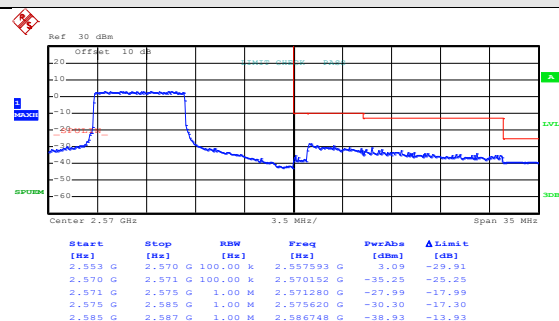
Test Mode:

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



Date: 13.APR.2017 23:01:36

Lowest channel

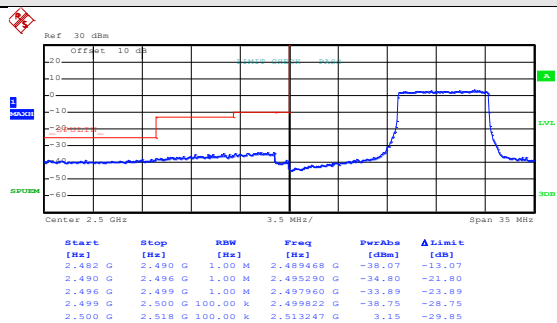


Date: 15.APR.2017 13:10:25

Highest channel

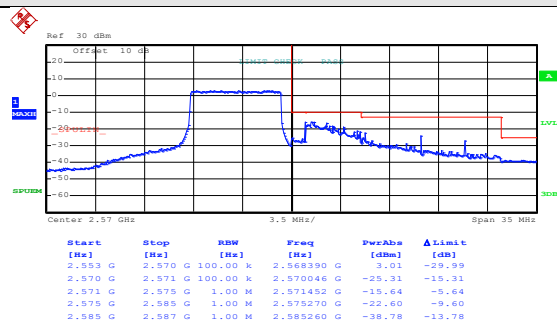
Test Mode:

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



Date: 13.APR.2017 23:02:16

Lowest channel

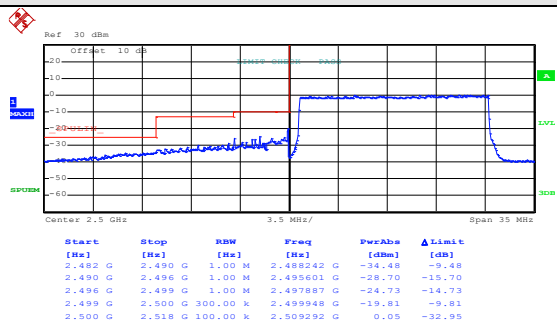


Date: 15.APR.2017 13:10:46

Highest channel

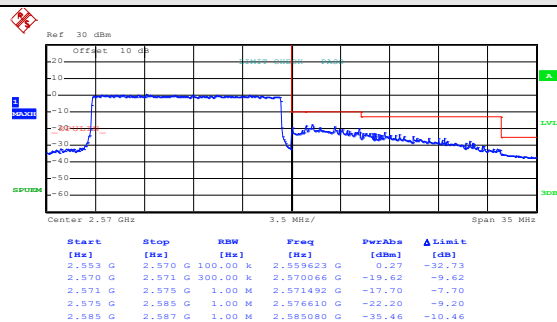
Test Mode:

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



Date: 13.APR.2017 23:02:41

Lowest channel



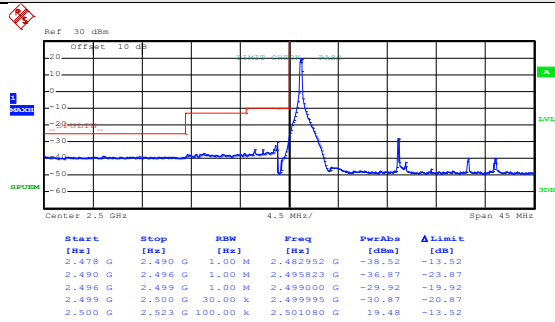
Date: 15.APR.2017 13:11:09

Highest channel

20MHz:

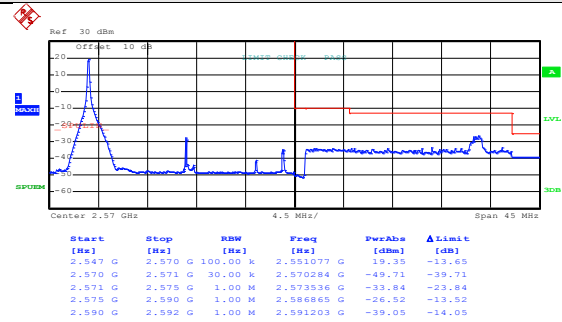
Test Mode:

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



Date: 13.APR.2017 23:12:28

Lowest channel

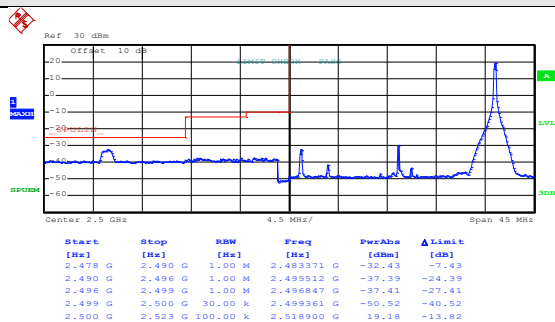


Date: 15.APR.2017 13:07:06

Highest channel

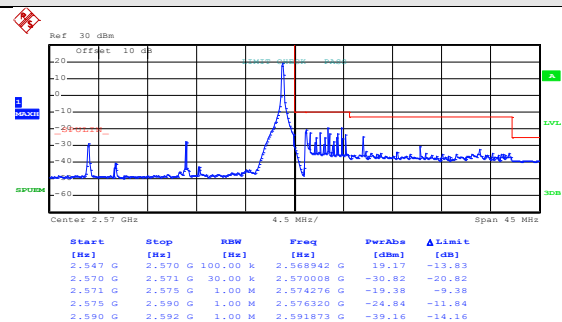
Test Mode:

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



Date: 13.APR.2017 23:12:42

Lowest channel

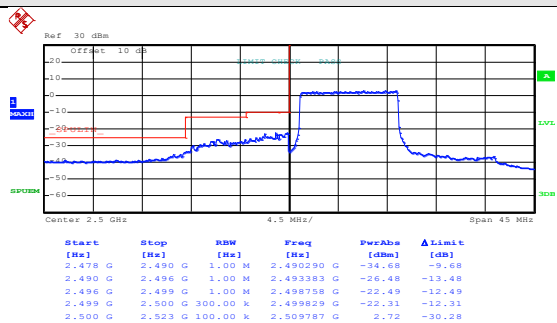


Date: 15.APR.2017 13:07:22

Highest channel

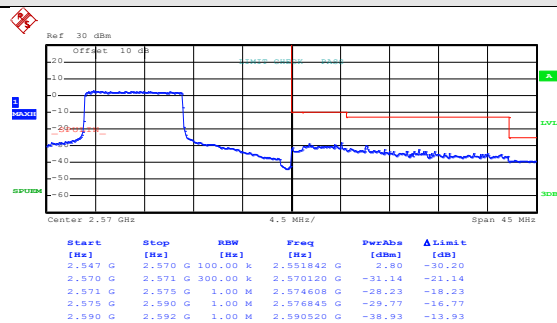
Test Mode:

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



Date: 13.APR.2017 23:13:03

Lowest channel

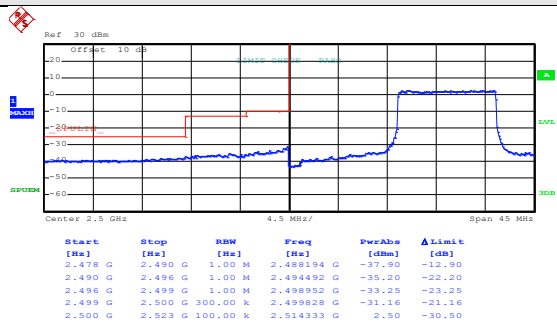


Date: 15.APR.2017 13:07:50

Highest channel

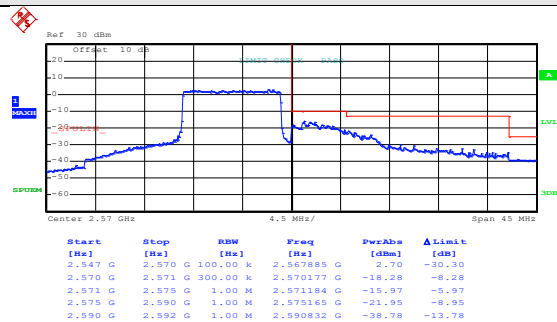
Test Mode:

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



Date: 13.APR.2017 23:13:18

Lowest channel

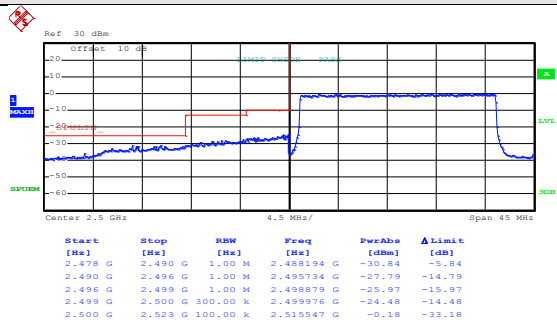


Date: 15.APR.2017 13:08:06

Highest channel

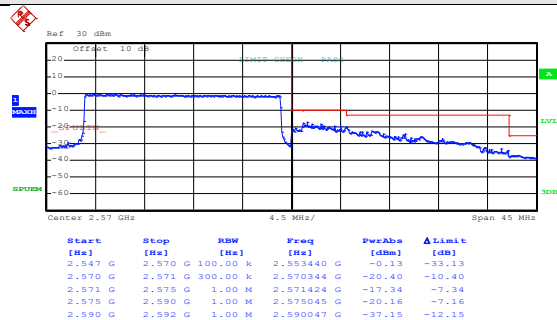
Test Mode:

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



Date: 13.APR.2017 23:13:38

Lowest channel

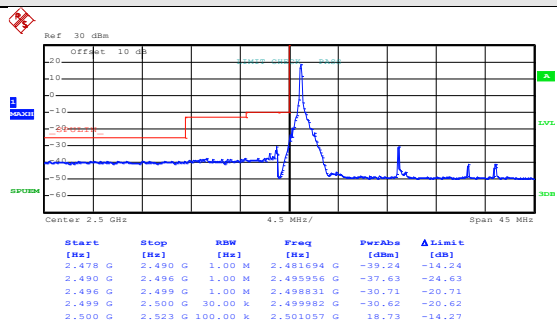


Date: 15.APR.2017 13:08:23

Highest channel

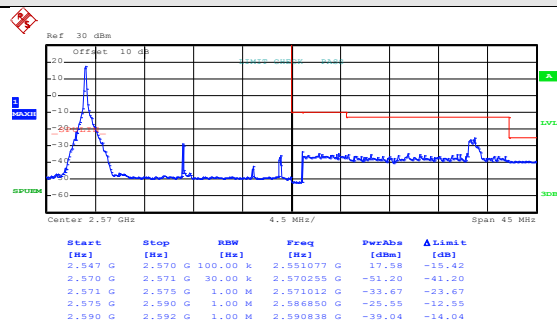
Test Mode:

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



Date: 13.APR.2017 23:12:34

Lowest channel

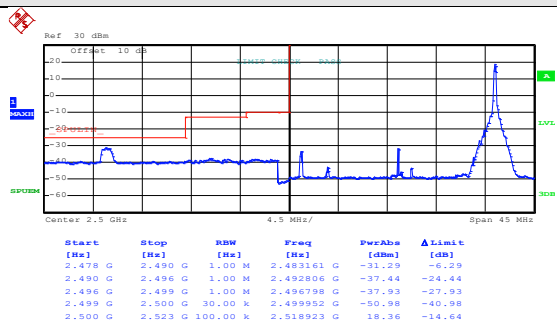


Date: 15.APR.2017 13:07:14

Highest channel

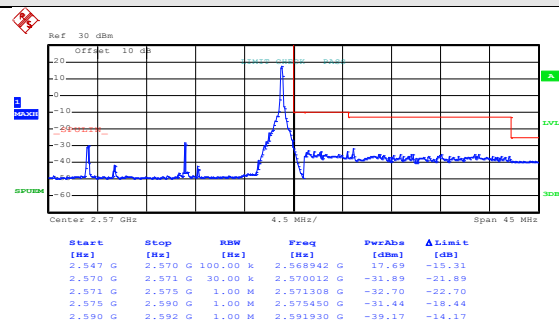
Test Mode:

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



Date: 13.APR.2017 23:12:48

Lowest channel

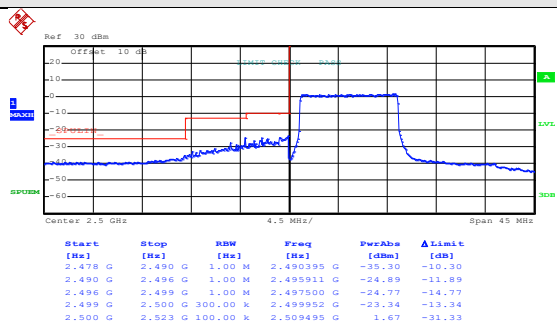


Date: 15.APR.2017 13:07:29

Highest channel

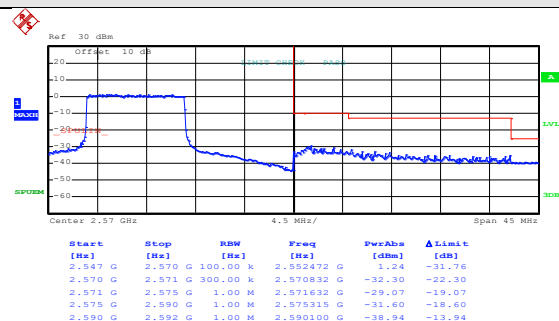
Test Mode:

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



Date: 13.APR.2017 23:13:09

Lowest channel

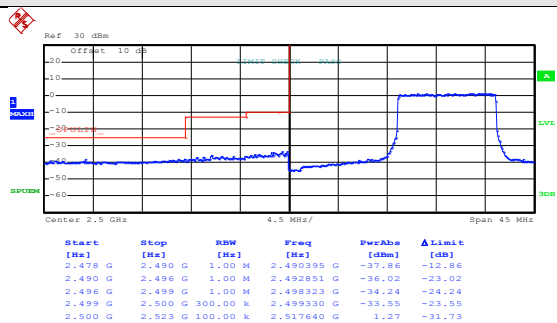


Date: 15.APR.2017 13:07:56

Highest channel

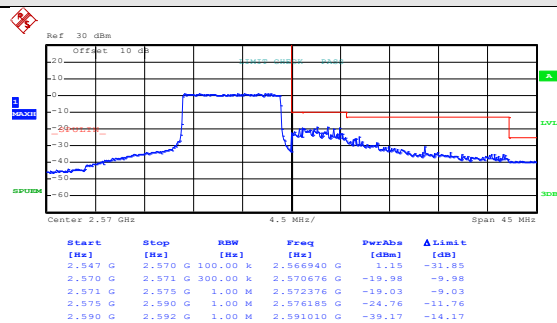
Test Mode:

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



Date: 13.APR.2017 23:13:26

Lowest channel

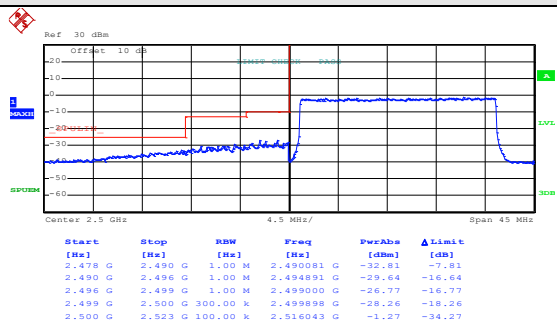


Date: 15.APR.2017 13:08:13

Highest channel

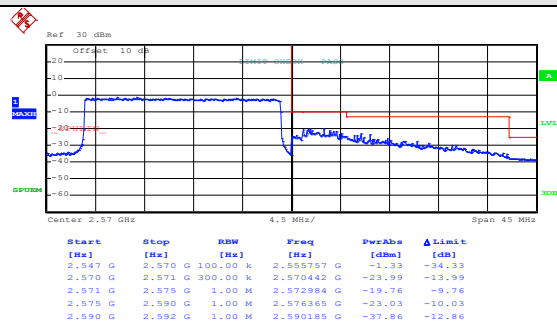
Test Mode:

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



Date: 13.APR.2017 23:13:43

Lowest channel



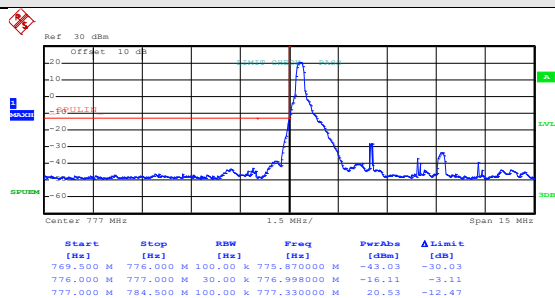
Date: 15.APR.2017 13:08:31

Highest channel

LTE band 13 part:5MHz:

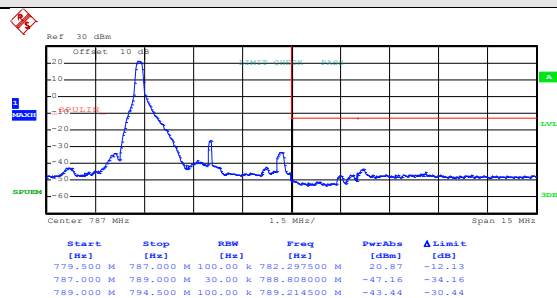
Test Mode:

LTE band 13(QPSK RB Size 1 & RB Offset 0)



Date: 13.APR.2017 23:21:46

Lowest channel

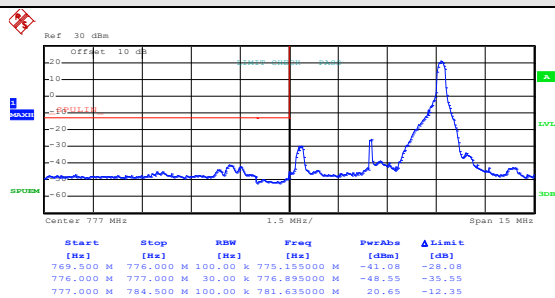


Date: 13.APR.2017 23:23:29

Highest channel

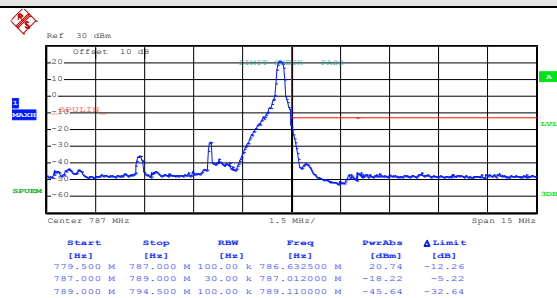
Test Mode:

LTE band 13(QPSK RB Size 1 & RB Offset 24)



Date: 13.APR.2017 23:22:02

Lowest channel

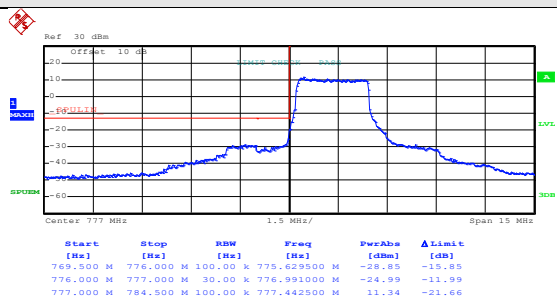


Date: 13.APR.2017 23:23:43

Highest channel

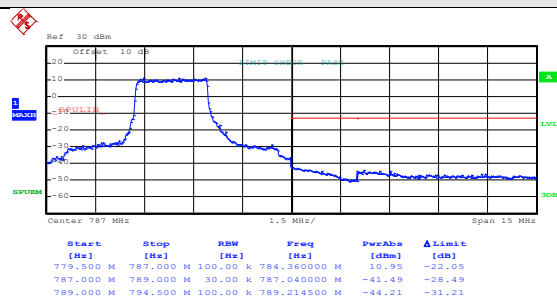
Test Mode:

LTE band 13(QPSK RB Size 12 & RB Offset 0)



Date: 13.APR.2017 23:22:17

Lowest channel

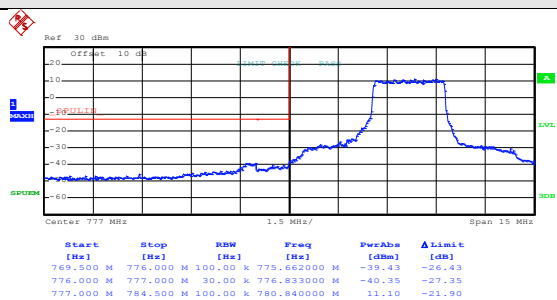


Date: 13.APR.2017 23:24:00

Highest channel

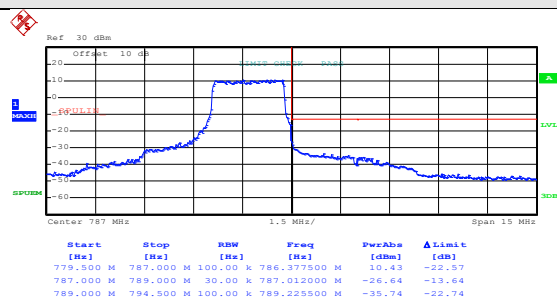
Test Mode:

LTE band 13(QPSK RB Size 12 & RB Offset 11)



Date: 13.APR.2017 23:22:32

Lowest channel

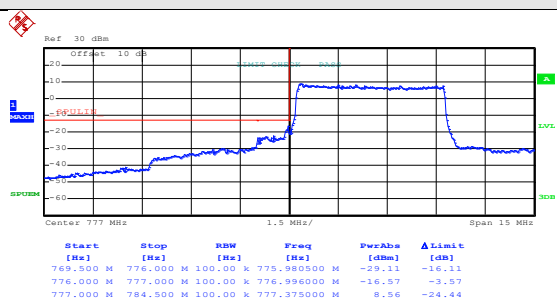


Date: 13.APR.2017 23:24:14

Highest channel

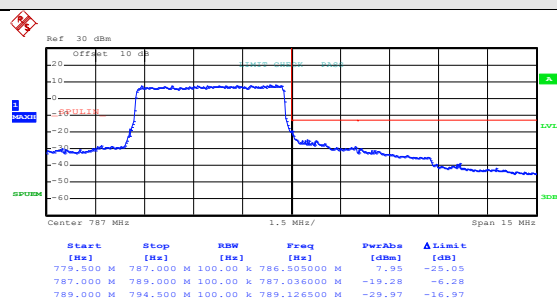
Test Mode:

LTE band 13(QPSK RB Size 25 & RB Offset 0)



Date: 13.APR.2017 23:22:52

Lowest channel

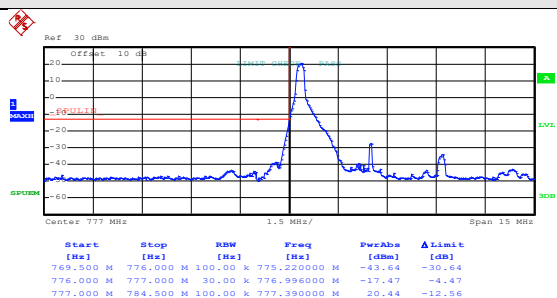


Date: 13.APR.2017 23:24:35

Highest channel

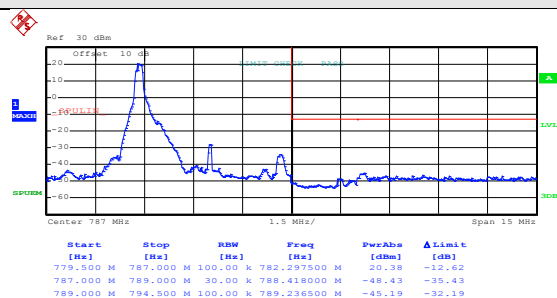
Test Mode:

LTE band 13(16QAM RB Size 1 & RB Offset 0)



Date: 13.APR.2017 23:21:54

Lowest channel

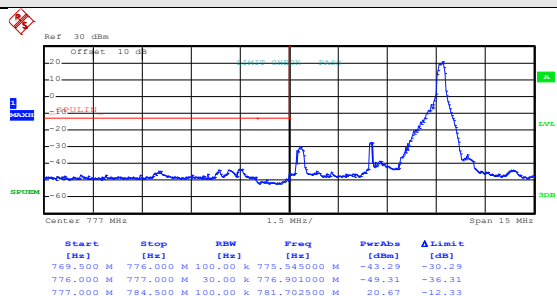


Date: 13.APR.2017 23:23:34

Highest channel

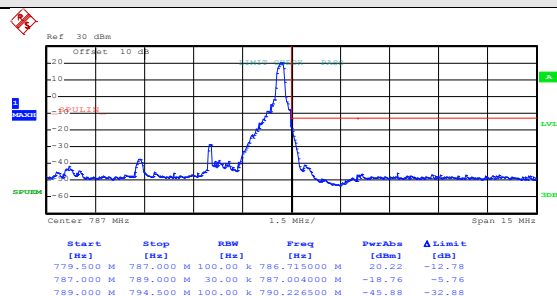
Test Mode:

LTE band 13(16QAM RB Size 1 & RB Offset 24)



Date: 13.APR.2017 23:22:08

Lowest channel

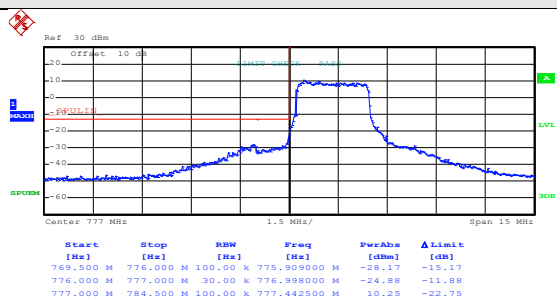


Date: 13.APR.2017 23:23:50

Highest channel

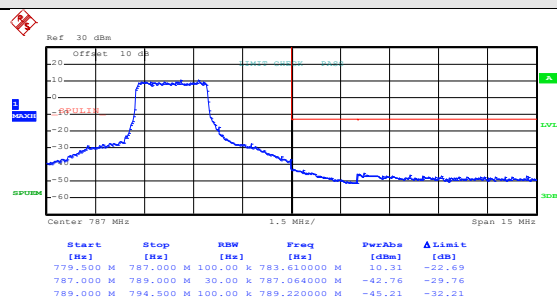
Test Mode:

LTE band 13(16QAM RB Size 12 & RB Offset 0)



Date: 13.APR.2017 23:22:23

Lowest channel

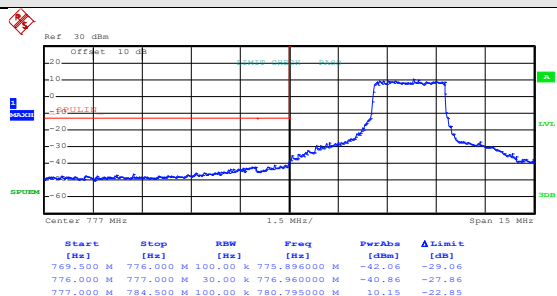


Date: 13.APR.2017 23:24:06

Highest channel

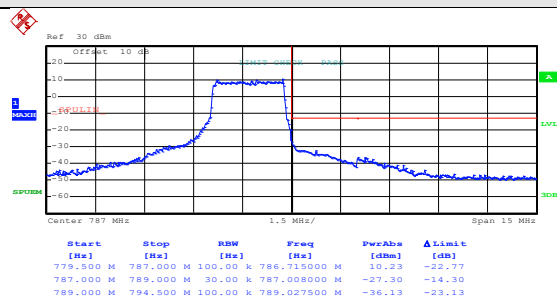
Test Mode:

LTE band 13(16QAM RB Size 12 & RB Offset 11)



Date: 13.APR.2017 23:22:38

Lowest channel

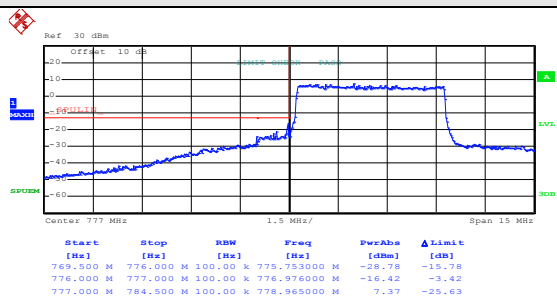


Date: 13.APR.2017 23:24:22

Highest channel

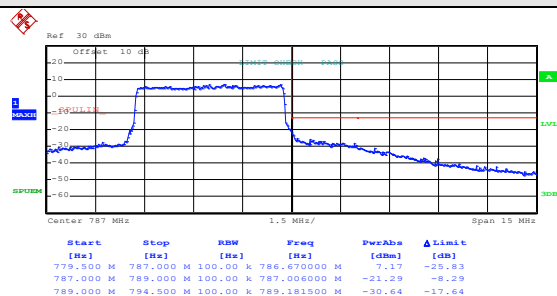
Test Mode:

LTE band 13(16QAM RB Size 25 & RB Offset 0)



Date: 13.APR.2017 23:22:57

Lowest channel



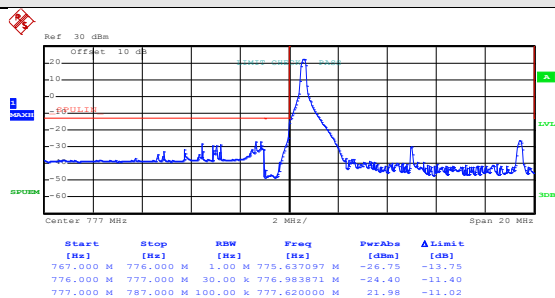
Date: 13.APR.2017 23:24:40

Highest channel

10MHz:

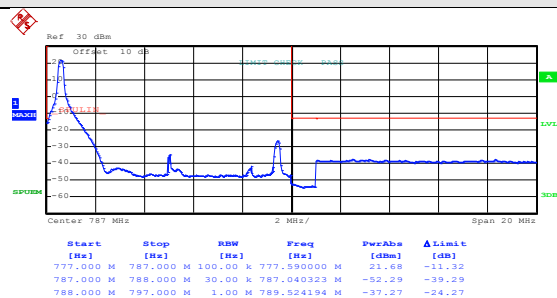
Test Mode:

LTE band 13(QPSK RB Size 1 & RB Offset 0)



Date: 22.APR.2017 18:23:48

Lowest channel

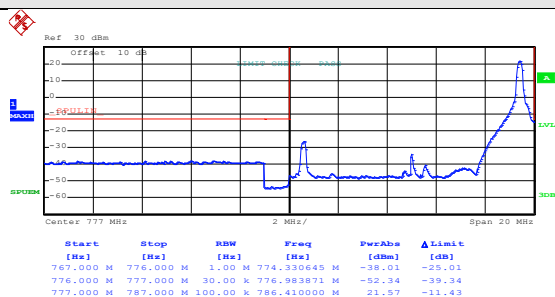


Date: 22.APR.2017 18:25:38

Highest channel

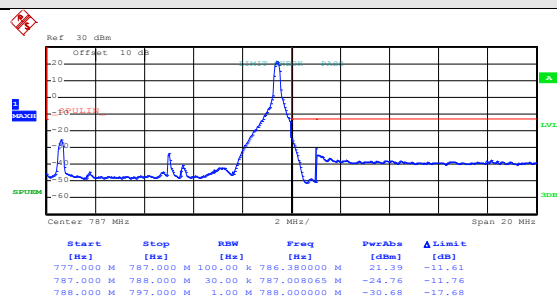
Test Mode:

LTE band 13(QPSK RB Size 1 & RB Offset 49)



Date: 22.APR.2017 18:24:07

Lowest channel

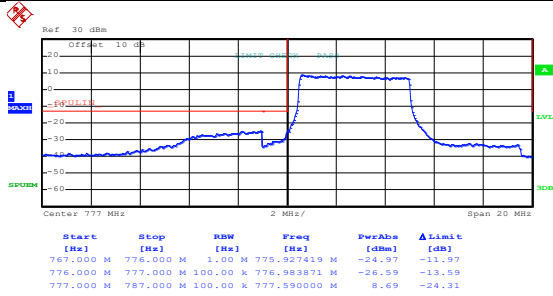


Date: 22.APR.2017 18:25:54

Highest channel

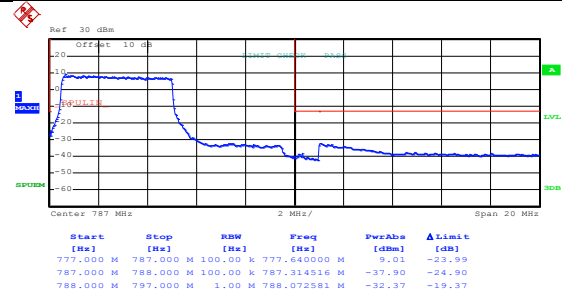
Test Mode:

LTE band 13(QPSK RB Size 25 & RB Offset 0)



Date: 22.APR.2017 18:24:32

Lowest channel

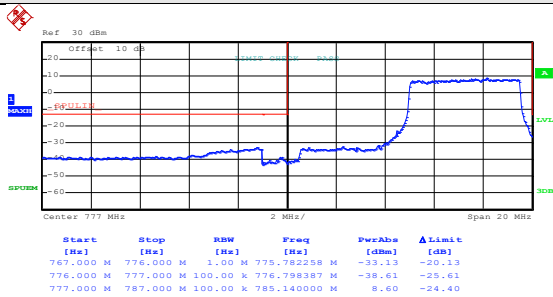


Date: 22.APR.2017 18:26:16

Highest channel

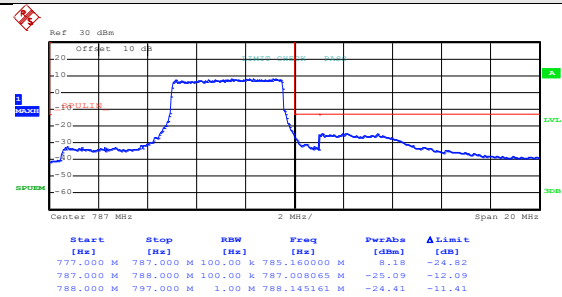
Test Mode:

LTE band 13(QPSK RB Size 25 & RB Offset 24)



Date: 22.APR.2017 18:24:47

Lowest channel

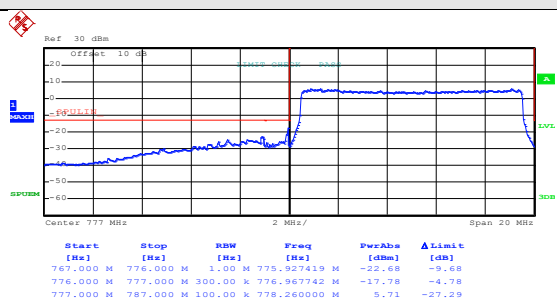


Date: 22.APR.2017 18:26:33

Highest channel

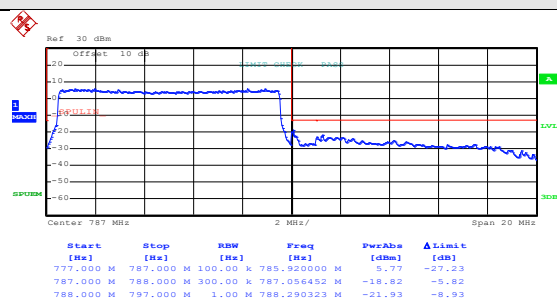
Test Mode:

LTE band 13(QPSK RB Size 50 & RB Offset 0)



Date: 22.APR.2017 18:25:07

Lowest channel

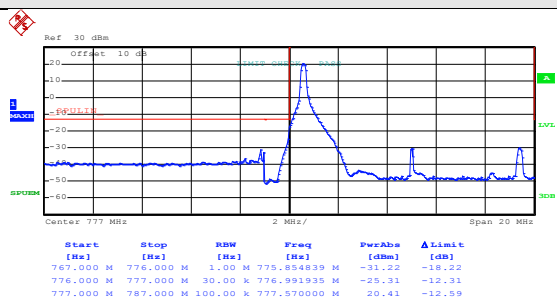


Date: 22.APR.2017 18:26:54

Highest channel

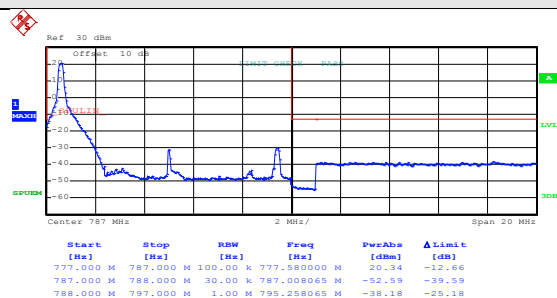
Test Mode:

LTE band 13(16QAM RB Size 1 & RB Offset 0)



Date: 22.APR.2017 18:23:57

Lowest channel

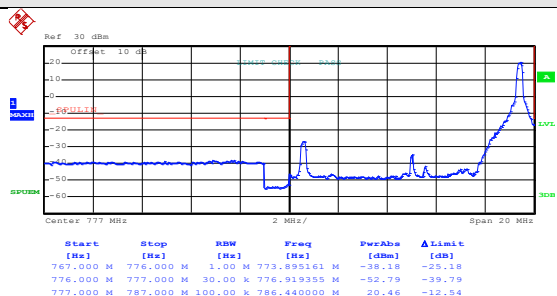


Date: 22.APR.2017 18:25:45

Highest channel

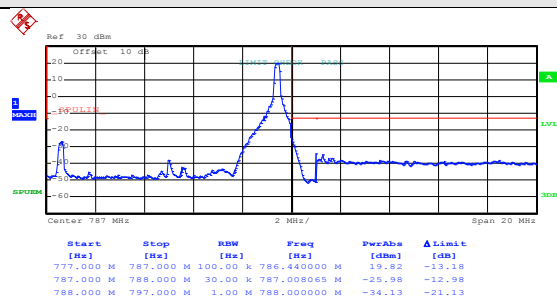
Test Mode:

LTE band 13(16QAM RB Size 1 & RB Offset 49)



Date: 22.APR.2017 18:24:16

Lowest channel

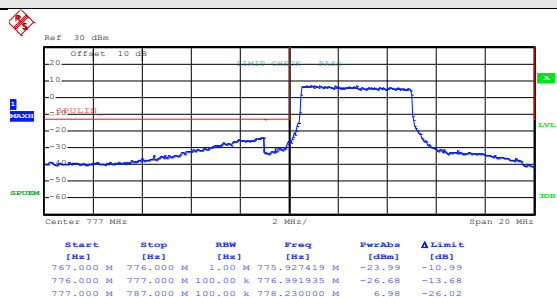


Date: 22.APR.2017 18:26:01

Highest channel

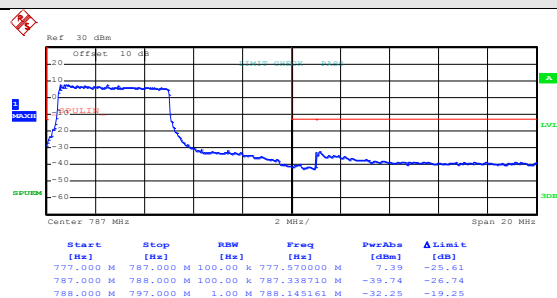
Test Mode:

LTE band 13(16QAM RB Size 25 & RB Offset 0)



Date: 22.APR.2017 18:24:38

Lowest channel

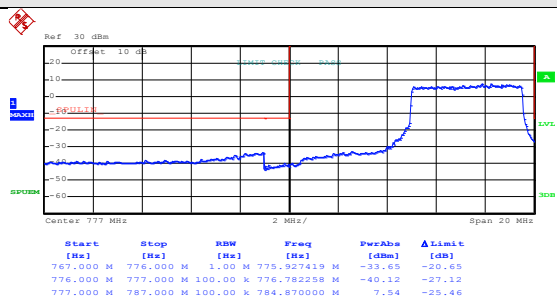


Date: 22.APR.2017 18:26:23

Highest channel

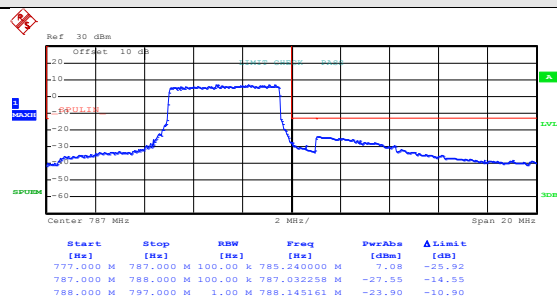
Test Mode:

LTE band 13(16QAM RB Size 25 & RB Offset 24)



Date: 22.APR.2017 18:24:54

Lowest channel

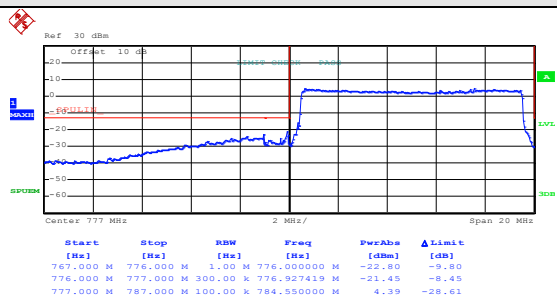


Date: 22.APR.2017 18:26:41

Highest channel

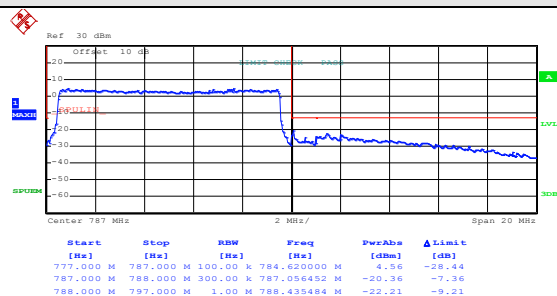
Test Mode:

LTE band 13(16QAM RB Size 50 & RB Offset 0)



Date: 22.APR.2017 18:25:11

Lowest channel

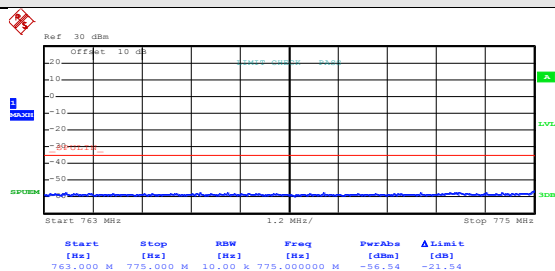


Date: 22.APR.2017 18:27:00

Highest channel

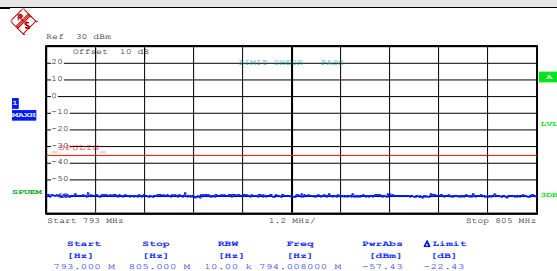
LTE band 13 part: 5MHz:

Test Mode:	LTE band 13(QPSK RB Size 1 & RB Offset 0)
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Date: 21.JUN.2017 15:19:26

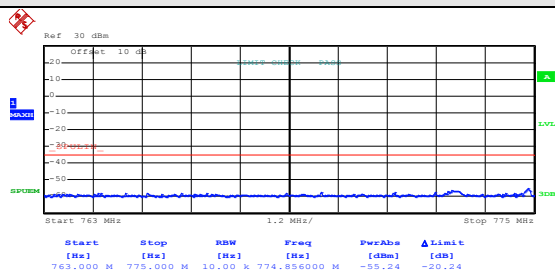
Lowest channel



Date: 21.JUN.2017 15:26:27

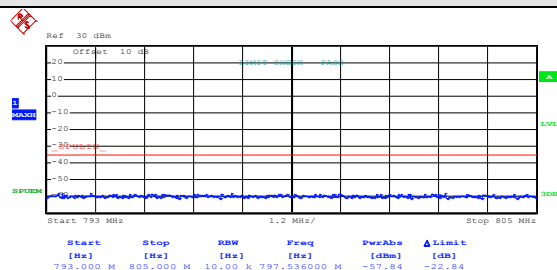
Highest channel

Test Mode:	LTE band 13(QPSK RB Size 1 & RB Offset 24)
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Date: 21.JUN.2017 15:19:54

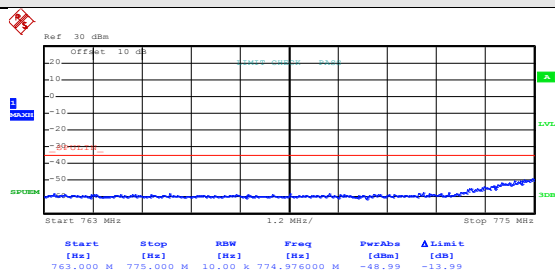
Lowest channel



Date: 21.JUN.2017 15:26:46

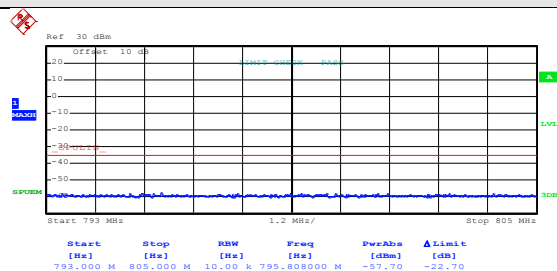
Highest channel

Test Mode:	LTE band 13(QPSK RB Size 12 & RB Offset 0)
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Date: 21.JUN.2017 15:20:18

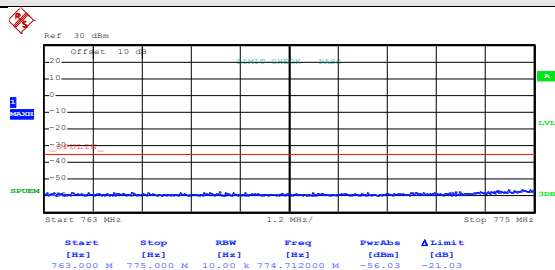
Lowest channel



Date: 21.JUN.2017 15:27:34

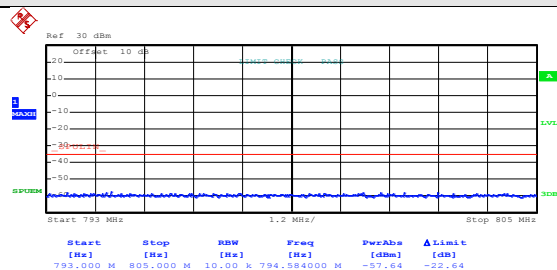
Highest channel

Test Mode:	LTE band 13(QPSK RB Size 12 & RB Offset 11)
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Date: 21.JUN.2017 15:20:58

Lowest channel

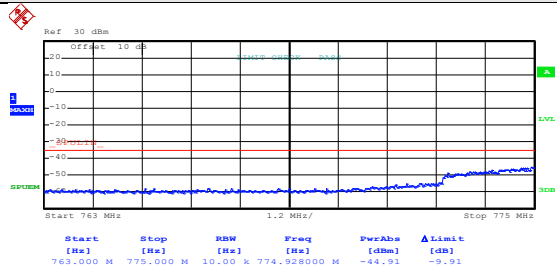


Date: 21.JUN.2017 15:27:55

Highest channel

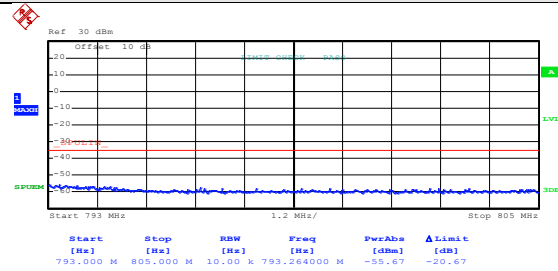
Test Mode:

LTE band 13(QPSK RB Size 25 & RB Offset 0)



Date: 21.JUN.2017 15:21:18

Lowest channel

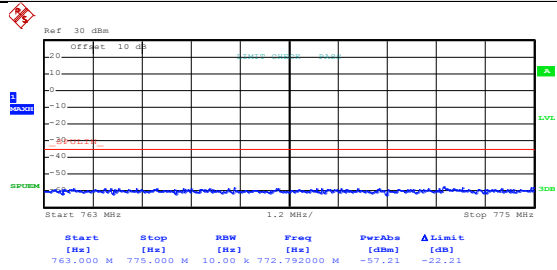


Date: 21.JUN.2017 15:28:12

Highest channel

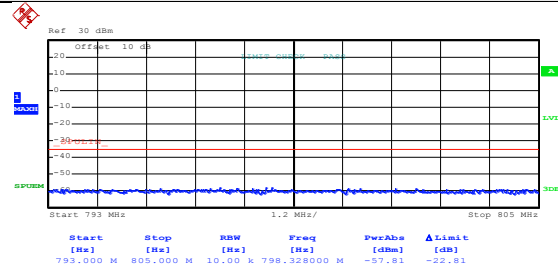
Test Mode:

LTE band 13(16QAM RB Size 1 & RB Offset 0)



Date: 21.JUN.2017 15:19:39

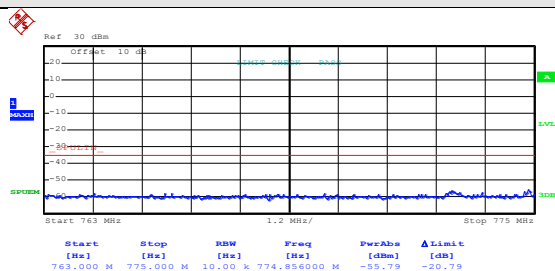
Lowest channel



Date: 21.JUN.2017 15:26:38

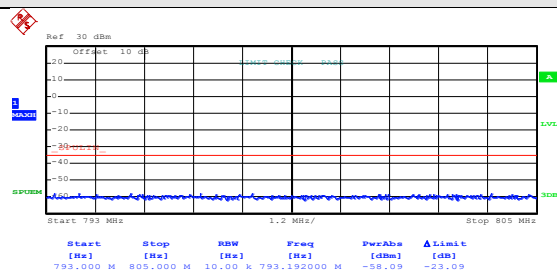
Highest channel

Test Mode:	LTE band 13(16QAM RB Size 1 & RB Offset 24)
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Date: 21.JUN.2017 15:20:03

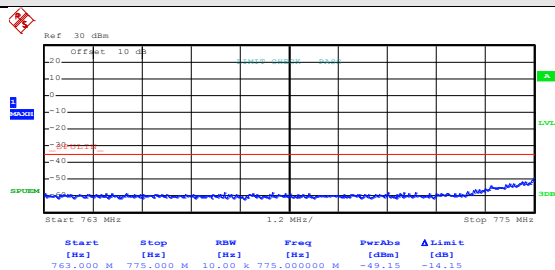
Lowest channel



Date: 21.JUN.2017 15:26:56

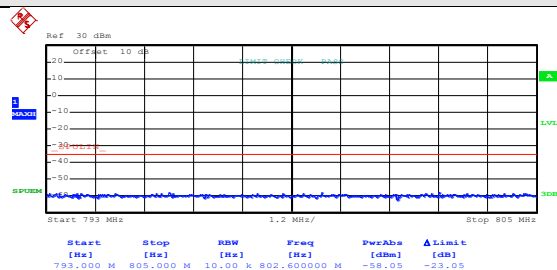
Highest channel

Test Mode:	LTE band 13(16QAM RB Size 12 & RB Offset 0)
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Date: 21.JUN.2017 15:20:26

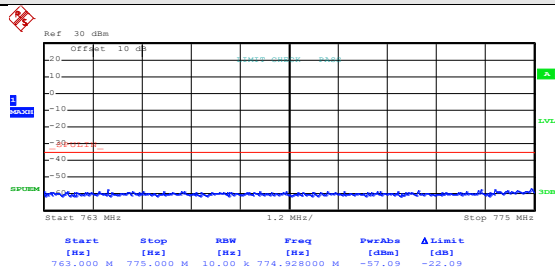
Lowest channel



Date: 21.JUN.2017 15:27:44

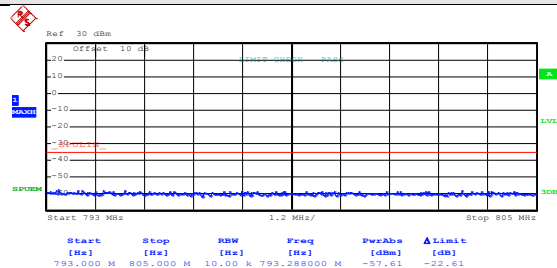
Highest channel

Test Mode:	LTE band 13(16QAM RB Size 12 & RB Offset 11)
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Date: 21.JUN.2017 15:21:08

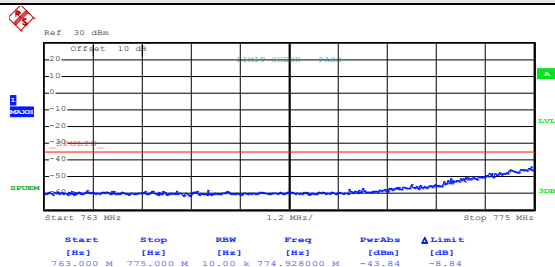
Lowest channel



Date: 21.JUN.2017 15:28:03

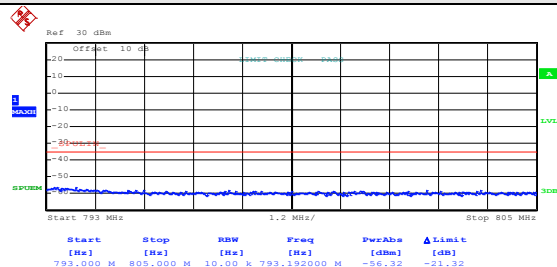
Highest channel

Test Mode:	LTE band 13(16QAM RB Size 25 & RB Offset 0)
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Date: 21.JUN.2017 15:21:26

Lowest channel

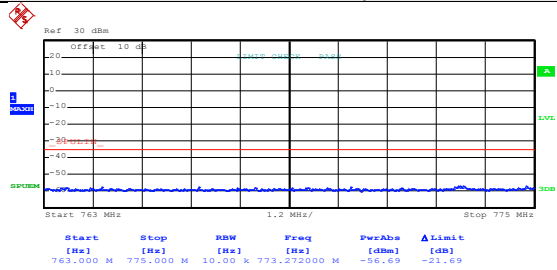


Date: 21.JUN.2017 15:28:19

Highest channel

10MHz:

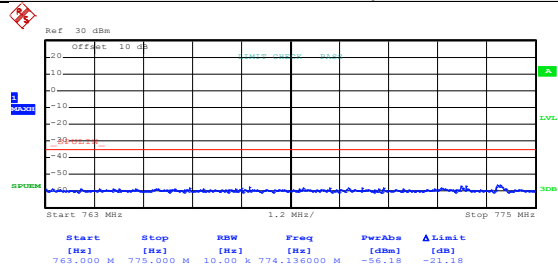
Test Mode: LTE band 13(QPSK RB Size 1 & RB Offset 0)



Date: 21.JUN.2017 15:22:56

Middle channel

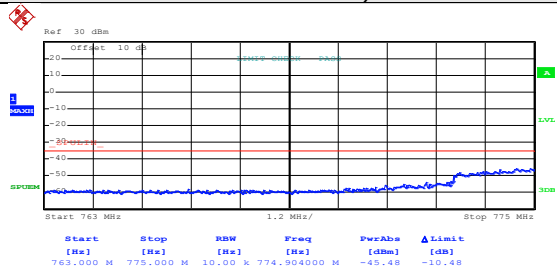
Test Mode: LTE band 13(QPSK RB Size 1 & RB Offset 49)



Date: 21.JUN.2017 15:23:19

Middle channel

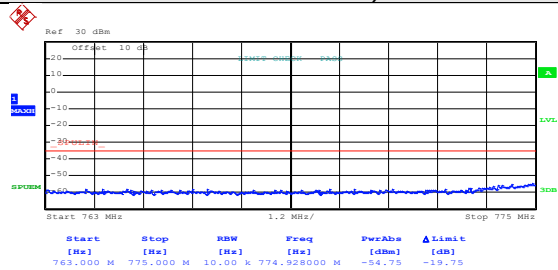
Test Mode: LTE band 13(QPSK RB Size 25 & RB Offset 0)



Date: 21.JUN.2017 15:23:40

Middle channel

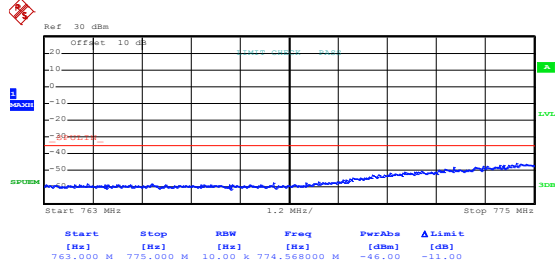
Test Mode: LTE band 13(QPSK RB Size 25 & RB Offset 24)



Date: 21.JUN.2017 15:23:57

Middle channel

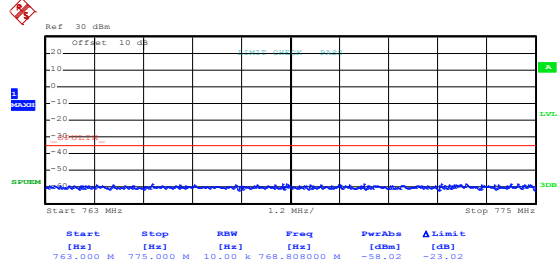
Test Mode: LTE band 13(QPSK RB Size 50 & RB Offset 0)



Date: 21.JUN.2017 15:24:34

Middle channel

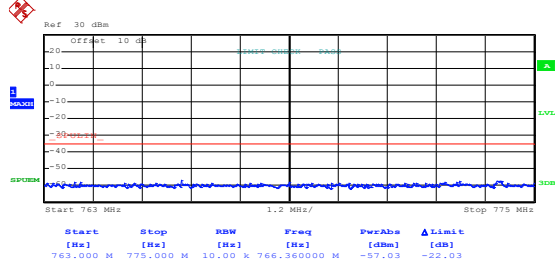
Test Mode: LTE band 13(16QAM RB Size 1 & RB Offset 0)



Date: 21.JUN.2017 15:23:08

Middle channel

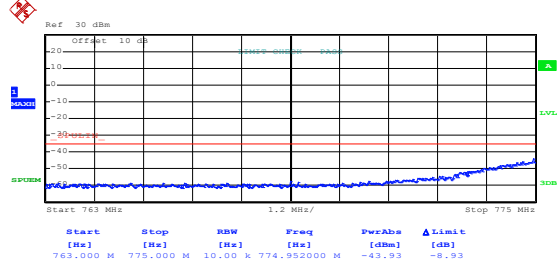
Test Mode: LTE band 13(16QAM RB Size 1 & RB Offset 49)



Date: 21.JUN.2017 15:23:27

Middle channel

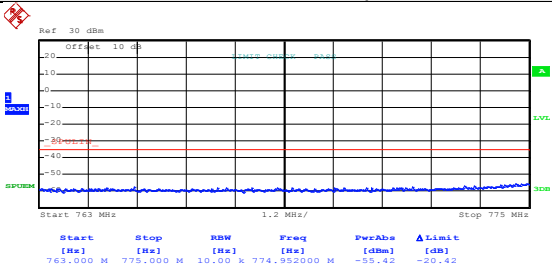
Test Mode: LTE band 13(16QAM RB Size 25 & RB Offset 0)



Date: 21.JUN.2017 15:23:48

Middle channel

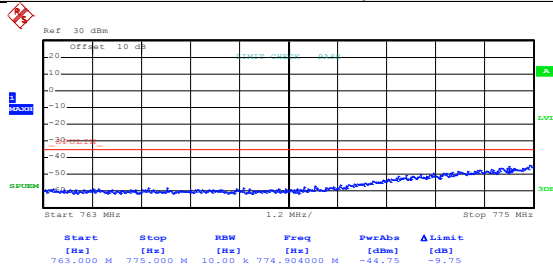
Test Mode: LTE band 13(16QAM RB Size 25 & RB Offset 24)



Date: 21.JUN.2017 15:24:17

Middle channel

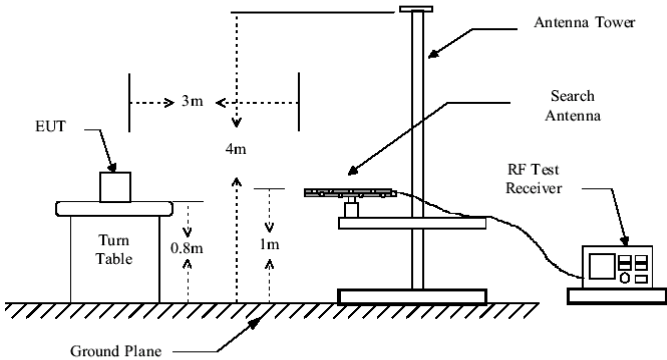
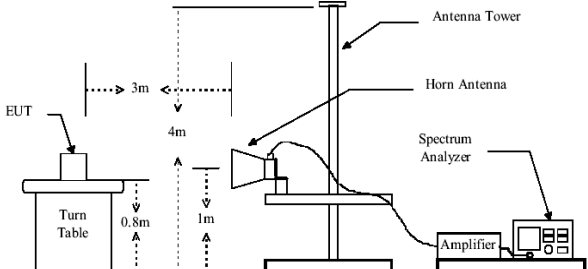
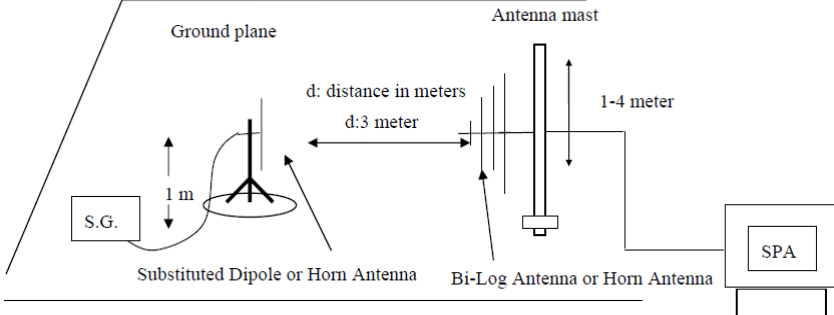
Test Mode: LTE band 13(16QAM RB Size 50 & RB Offset 0)



Date: 21.JUN.2017 15:24:40

Middle channel

6.10 ERP, EIRP Measurement

Test Requirement:	24.232 (c), part 27.50(a), part 27.50(d), part 27.50 (h)
Test Method:	FCC part2.1046
Limit:	LTE Band 2: 2W EIRP LTE Band 4: 1W EIRP LTE Band 7: 2W EIRP LTE Band 13: 3W EIRP
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. ERP in frequency band below 1GHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 4. EIRP in frequency band above 1GHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$ 5. The worse case was relating to the conducted output power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case):

LTE band 2 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	19.55	33.00	Pass
					H	16.22		
1850.70	18607	16QAM	1.4	H	V	19.72		
					H	16.02		
1.4MHz(RB size 3 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	19.52	33.00	Pass
					H	15.96		
1850.70	18607	16QAM	1.4	H	V	19.91		
					H	15.82		
1.4MHz(RB size 6 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	18.63	33.00	Pass
					H	14.81		
1850.70	18607	16QAM	1.4	H	V	18.14		
					H	14.48		

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	19.18	33.00	Pass
					H	16.49		
1880.00	18900	16QAM	1.4	H	V	19.18		
					H	16.87		
1.4MHz(RB size 3 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	19.37	33.00	Pass
					H	15.87		
1880.00	18900	16QAM	1.4	H	V	19.39		
					H	15.17		
1.4MHz(RB size 6 & RB offset 0)								
1880.00	18900	QPSK	1.40	H	V	18.45	33.00	Pass
					H	14.37		
1880.00	18900	16QAM	1.40	H	V	18.99		
					H	14.50		

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	19.37	33.00	Pass
					H	16.41		
1909.30	19193	16QAM	1.4	H	V	19.36		
					H	16.74		
1.4MHz(RB size 3 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	19.41	33.00	Pass
					H	15.23		
1909.30	19193	16QAM	1.4	H	V	19.71		
					H	15.49		
1.4MHz(RB size 6 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	18.17	33.00	Pass
					H	14.14		
1909.30	19193	16QAM	1.4	H	V	18.18		
					H	14.93		

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	19.23	33.00	Pass
					H	16.85		
1860.00	18700	16QAM	20	H	V	19.37		
					H	16.16		
20MHz(RB size 50 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	19.75	33.00	Pass
					H	15.35		
1860.00	18700	16QAM	20	H	V	19.43		
					H	15.48		
20MHz(RB size 100 & RB offset 0)								
1860.00	18700	QPSK	20	H	V	18.32	33.00	Pass
					H	14.84		
1860.00	18700	16QAM	20	H	V	18.71		
					H	14.94		

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	19.85	33.00	Pass
					H	16.37		
1880.00	18900	16QAM	20	H	V	19.45		
					H	16.41		
20MHz(RB size 50 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	19.18	33.00	Pass
					H	15.63		
1880.00	18900	16QAM	20	H	V	19.11		
					H	15.93		
20MHz(RB size 100 & RB offset 0)								
1880.00	18900	QPSK	20	H	V	18.01	33.00	Pass
					H	14.37		
1880.00	18900	16QAM	20	H	V	18.74		
					H	14.38		

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	19.99	33.00	Pass
					H	16.22		
1900.00	19100	16QAM	20	H	V	19.49		
					H	16.74		
20MHz(RB size 50 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	19.63	33.00	Pass
					H	15.39		
1900.00	19100	16QAM	20	H	V	19.01		
					H	15.74		
20MHz(RB size 100 & RB offset 0)								
1900.00	19100	QPSK	20	H	V	18.74	33.00	Pass
					H	14.37		
1900.00	19100	16QAM	20	H	V	18.36		
					H	14.18		

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	15.87	30.00	Pass
					H	18.27		
1710.70	19957	16QAM	1.4	H	V	15.88		
					H	18.14		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	16.04	30.00	Pass
					H	18.40		
1710.70	19957	16QAM	1.4	H	V	14.25		
					H	18.10		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	13.08	30.00	Pass
					H	17.30		
1710.70	19957	16QAM	1.4	H	V	13.69		
					H	17.57		

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	15.17	30.00	Pass
					H	18.71		
1732.50	20175	16QAM	1.4	H	V	15.07		
					H	18.27		
1.4MHz(RB size 3 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	16.37	30.00	Pass
					H	18.77		
1732.50	20175	16QAM	1.4	H	V	14.34		
					H	18.41		
1.4MHz(RB size 6 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	13.39	30.00	Pass
					H	17.01		
1732.50	20175	16QAM	1.4	H	V	13.13		
					H	17.79		

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	15.32	30.00	Pass
					H	18.79		
1754.30	20393	16QAM	1.4	H	V	15.37		
					H	18.01		
1.4MHz(RB size 3 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	16.69	30.00	Pass
					H	18.13		
1754.30	20393	16QAM	1.4	H	V	14.01		
					H	18.41		
1.4MHz(RB size 6 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	13.23	30.00	Pass
					H	17.39		
1754.30	20393	16QAM	1.4	H	V	13.73		
					H	17.93		

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	15.17	30.00	Pass
					H	18.37		
1720.00	20050	16QAM	20	H	V	15.34		
					H	18.07		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	16.71	30.00	Pass
					H	18.23		
1720.00	20050	16QAM	20	H	V	14.34		
					H	18.57		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	13.57	30.00	Pass
					H	17.01		
1720.00	20050	16QAM	20	H	V	13.39		
					H	17.11		

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	15.32	30.00	Pass
					H	18.17		
1732.50	20175	16QAM	20	H	V	15.54		
					H	18.50		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	16.33	30.00	Pass
					H	18.75		
1732.50	20175	16QAM	20	H	V	14.32		
					H	18.17		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	13.11	30.00	Pass
					H	17.44		
1732.50	20175	16QAM	20	H	V	13.75		
					H	17.34		

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	15.71	30.00	Pass
					H	18.37		
1745.00	20300	16QAM	20	H	V	15.44		
					H	18.10		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	16.17	30.00	Pass
					H	18.57		
1745.00	20300	16QAM	20	H	V	14.44		
					H	18.57		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	13.44	30.00	Pass
					H	17.23		
1745.00	20300	16QAM	20	H	V	13.74		
					H	17.17		

LTE band 7 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2502.50	20775	QPSK	5	H	V	12.76	33.00	Pass
					H	13.11		
2502.50	20775	16QAM	5	H	V	12.20		
					H	12.84		
5MHz(RB size 12& RB offset 0)								
2502.50	20775	QPSK	5	H	V	12.51	33.00	Pass
					H	12.99		
2502.50	20775	16QAM	5	H	V	12.67		
					H	12.99		
5MHz(RB size 25& RB offset 0)								
2502.50	20775	QPSK	5	H	V	12.11	33.00	Pass
					H	12.74		
2502.50	20775	16QAM	5	H	V	12.19		
					H	12.67		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2535.00	21100	QPSK	5	H	V	12.32	33.00	Pass
					H	13.25		
2535.00	21100	16QAM	5	H	V	12.39		
					H	12.84		
5MHz(RB size 12& RB offset 0)								
2535.00	21100	QPSK	5	H	V	12.19	33.00	Pass
					H	12.82		
2535.00	21100	16QAM	5	H	V	12.48		
					H	12.39		
5MHz(RB size 25& RB offset 0)								
2535.00	21100	QPSK	5	H	V	12.39	33.00	Pass
					H	12.32		
2535.00	21100	16QAM	5	H	V	12.46		
					H	12.48		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
2567.50	21425	QPSK	5	H	V	12.38	33.00	Pass
					H	13.28		
2567.50	21425	16QAM	5	H	V	12.12		
					H	12.93		
5MHz(RB size 12& RB offset 0)								
2567.50	21425	QPSK	5	H	V	12.44	33.00	Pass
					H	12.13		
2567.50	21425	16QAM	5	H	V	12.58		
					H	12.39		
5MHz(RB size 25& RB offset 0)								
2567.50	21425	QPSK	5	H	V	12.40	33.00	Pass
					H	12.82		
2567.50	21425	16QAM	5	H	V	12.12		
					H	12.19		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	12.52	33.00	Pass
					H	13.10		
2510.00	20850	16QAM	20	H	V	12.27		
					H	12.83		
20MHz(RB size 50 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	12.11	33.00	Pass
					H	12.31		
2510.00	20850	16QAM	20	H	V	12.93		
					H	12.47		
20MHz(RB size 100 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	12.31	33.00	Pass
					H	12.25		
2510.00	20850	16QAM	20	H	V	12.52		
					H	12.82		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	12.13	33.00	Pass
					H	13.06		
2535.00	21100	16QAM	20	H	V	12.71		
					H	12.96		
20MHz(RB size 50 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	12.83	33.00	Pass
					H	12.44		
2535.00	21100	16QAM	20	H	V	12.61		
					H	12.74		
20MHz(RB size 100 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	12.36	33.00	Pass
					H	12.12		
2535.00	21100	16QAM	20	H	V	12.27		
					H	12.84		

High channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	12.31	33.00	Pass
					H	13.25		
2560.00	21350	16QAM	20	H	V	12.11		
					H	12.30		
20MHz(RB size 50 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	12.40	33.00	Pass
					H	12.30		
2560.00	21350	16QAM	20	H	V	12.41		
					H	12.54		
20MHz(RB size 100 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	12.92	33.00	Pass
					H	12.24		
2560.00	21350	16QAM	20	H	V	12.37		
					H	12.71		

**LTE band 13 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)								
779.50	23205	QPSK	5	H	V	24.39	34.77	Pass
					H	17.35		
779.50	23205	16QAM	5	H	V	24.43		
					H	17.18		
5MHz(RB size 12 & RB offset 0)								
779.50	23205	QPSK	5	H	V	24.79	34.77	Pass
					H	17.66		
779.50	23205	16QAM	5	H	V	24.75		
					H	17.47		
5MHz(RB size 25 & RB offset 0)								
779.50	23205	QPSK	5	H	V	23.97	34.77	Pass
					H	16.78		
779.50	23205	16QAM	5	H	V	24.46		
					H	16.83		

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)								
782.00	23230	QPSK	5	H	V	24.79	34.77	Pass
					H	17.15		
782.00	23230	16QAM	5	H	V	24.35		
					H	17.39		
5MHz(RB size 12 & RB offset 0)								
782.00	23230	QPSK	5	H	V	24.33	34.77	Pass
					H	17.65		
782.00	23230	16QAM	5	H	V	24.55		
					H	17.01		
5MHz(RB size 25 & RB offset 0)								
782.00	23230	QPSK	5	H	V	23.35	34.77	Pass
					H	16.64		
782.00	23230	16QAM	5	H	V	24.53		
					H	16.24		

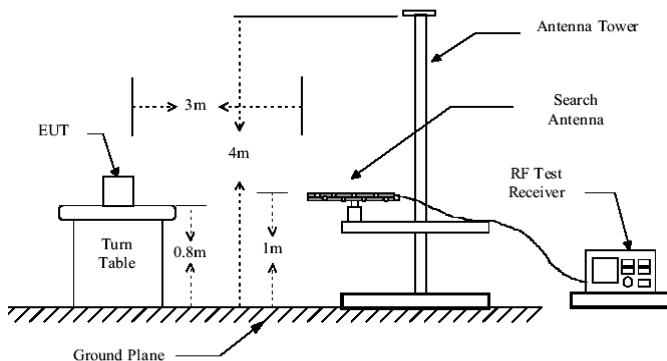
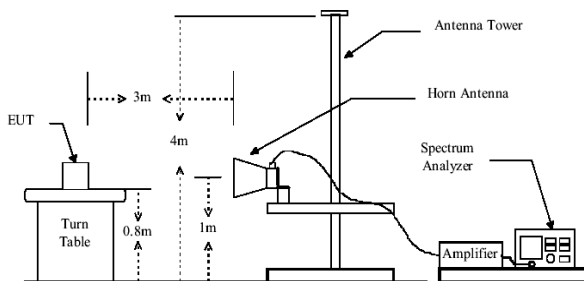
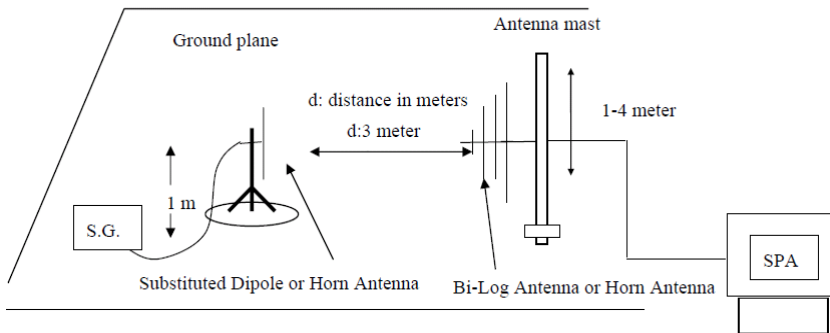
Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
5MHz(RB size 1 & RB offset 0)								
784.50	23255	QPSK	5	H	V	24.79	34.77	Pass
					H	17.15		
784.50	23255	16QAM	5	H	V	24.64		
					H	17.35		
5MHz(RB size 12 & RB offset 0)								
784.50	23255	QPSK	5	H	V	24.46	34.77	Pass
					H	17.39		
784.50	23255	16QAM	5	H	V	24.68		
					H	17.55		
5MHz(RB size 25 & RB offset 0)								
784.50	23255	QPSK	5	H	V	23.55	34.77	Pass
					H	16.68		
784.50	23255	16QAM	5	H	V	24.36		
					H	16.46		

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)								
782.00	23230	QPSK	10	H	V	24.53	34.77	Pass
					H	17.36		
782.00	23230	16QAM	10	H	V	24.23		
					H	17.82		
10MHz(RB size 25& RB offset 0)								
782.00	23230	QPSK	10	H	V	24.14	34.77	Pass
					H	17.34		
782.00	23230	16QAM	10	H	V	24.77		
					H	17.82		
10MHz(RB size 50& RB offset 0)								
782.00	23230	QPSK	10	H	V	23.54	34.77	Pass
					H	16.14		
782.00	23230	16QAM	10	H	V	24.36		
					H	16.74		

6.11 Field strength of spurious radiation measurement

Test Requirement:	Part 24.238 (a), Part 27.53(c), Part 27.53(m), Part 27.53(h)
Test Method:	FCC part2.1053
Limit:	LTE Band 2, LTE Band 4 and LTE band 13: -13dBm, LTE Band 7: -25dBm
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels).

	Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
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	-40.25	-13.00	Pass
5552.10	V	-46.10		
7402.00	V	-41.76		
3701.40	Horizontal	-43.11		
5552.10	H	-45.37		
7402.00	H	-41.81		
Middle				
3760.00	Vertical	-38.30	-13.00	Pass
5640.00	V	-45.45		
7520.00	V	-39.54		
3760.00	Horizontal	-44.43		
5640.00	H	-46.57		
7520.00	H	-42.07		
Highest				
3816.60	Vertical	-37.32	-13.00	Pass
5724.90	V	-43.79		
7633.20	V	-40.51		
3816.60	Horizontal	-39.89		
5724.90	H	-43.77		
7633.20	H	-40.25		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3703.00	Vertical	-40.61	-13.00	Pass
5554.50	V	-46.68		
7406.00	V	-41.47		
3703.00	Horizontal	-43.39		
5554.50	H	-45.58		
7406.00	H	-41.85		
Middle				
3760.00	Vertical	-38.61	-13.00	Pass
5640.00	V	-45.45		
7520.00	V	-39.56		
3760.00	Horizontal	-44.24		
5640.00	H	-46.26		
7520.00	H	-42.45		
Highest				
3817.00	Vertical	-37.28	-13.00	Pass
5725.50	V	-43.47		
7634.00	V	-40.14		
3817.00	Horizontal	-39.89		
5725.50	H	-43.24		
7634.00	H	-40.25		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3705.00	Vertical	-40.38	-13.00	Pass
5557.50	V	-46.57		
7410.00	V	-41.33		
3705.00	Horizontal	-43.42		
5557.50	H	-45.55		
7410.00	H	-41.51		
Middle				
3760.00	Vertical	-38.85	-13.00	Pass
5640.00	V	-45.68		
7520.00	V	-39.37		
3760.00	Horizontal	-44.12		
5640.00	H	-46.99		
7520.00	H	-42.27		
Highest				
3815.00	Vertical	-37.76	-13.00	Pass
5722.50	V	-43.44		
7630.00	V	-40.41		
3815.00	Horizontal	-39.24		
5722.50	H	-43.33		
7630.00	H	-40.51		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3710.00	Vertical	-41.55	-13.00	Pass
5565.00	V	-46.42		
7420.00	V	-41.82		
3710.00	Horizontal	-43.64		
5565.00	H	-45.74		
7420.00	H	-41.83		
Middle				
3760.00	Vertical	-38.35	-13.00	Pass
5640.00	V	-45.52		
7520.00	V	-39.17		
3760.00	Horizontal	-44.55		
5640.00	H	-46.57		
7520.00	H	-42.82		
Highest				
3810.00	Vertical	-37.64	-13.00	Pass
5715.00	V	-43.12		
7620.00	V	-40.99		
3810.00	Horizontal	-39.31		
5715.00	H	-43.74		
7620.00	H	-40.57		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3715.00	Vertical	-40.56	-13.00	Pass
5572.50	V	-46.42		
7430.00	V	-41.50		
3715.00	Horizontal	-43.62		
5572.50	H	-45.76		
7430.00	H	-41.57		
Middle				
3760.00	Vertical	-38.24	-13.00	Pass
5640.00	V	-45.25		
7520.00	V	-39.36		
3760.00	Horizontal	-44.79		
5640.00	H	-46.12		
7520.00	H	-42.42		
Highest				
3805.00	Vertical	-37.11	-13.00	Pass
5707.50	V	-43.62		
7610.00	V	-40.25		
3805.00	Horizontal	-39.14		
5707.50	H	-43.67		
7610.00	H	-40.97		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3720.00	Vertical	-40.51	-13.00	Pass
5580.00	V	-46.31		
7440.00	V	-41.41		
3720.00	Horizontal	-43.32		
5580.00	H	-45.46		
7440.00	H	-41.12		
Middle				
3760.00	Vertical	-38.99	-13.00	Pass
5640.00	V	-45.12		
7520.00	V	-39.57		
3760.00	Horizontal	-44.31		
5640.00	H	-46.43		
7520.00	H	-42.74		
Highest				
3800.00	Vertical	-37.31	-13.00	Pass
5700.00	V	-43.64		
7600.00	V	-40.32		
3800.00	Horizontal	-39.42		
5700.00	H	-43.64		
7600.00	H	-40.52		

LTE Band 4 Part:

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

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3421.40	Vertical	-48.31	-13.00	Pass
5132.10	V	-47.17		
6842.80	V	-42.57		
3421.40	Horizontal	-50.62		
5132.10	H	-45.71		
6842.80	H	-40.82		
Middle				
3465.00	Vertical	-48.39	-13.00	Pass
5197.50	V	-45.10		
6930.00	V	-40.69		
3465.00	Horizontal	-50.98		
5197.50	H	-44.48		
6930.00	H	-40.79		
Highest				
3508.60	Vertical	-47.57	-13.00	Pass
5262.90	V	-45.27		
7017.20	V	-40.79		
3508.60	Horizontal	-50.85		
5262.90	H	-45.03		
7017.20	H	-40.52		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-48.63	-13.00	Pass
5134.50	V	-47.31		
6846.00	V	-42.49		
3423.00	Horizontal	-50.21		
5134.50	H	-45.21		
6846.00	H	-40.46		
Middle				
3465.00	Vertical	-48.57	-13.00	Pass
5197.50	V	-45.83		
6930.00	V	-40.84		
3465.00	Horizontal	-50.16		
5197.50	H	-44.08		
6930.00	H	-40.71		
Highest				
3507.00	Vertical	-47.57	-13.00	Pass
5260.50	V	-45.12		
7014.00	V	-40.21		
3507.00	Horizontal	-50.55		
5260.50	H	-45.91		
7014.00	H	-40.51		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-48.34	-13.00	Pass
5137.50	V	-47.73		
6850.00	V	-42.66		
3425.00	Horizontal	-50.16		
5137.50	H	-45.42		
6850.00	H	-40.49		
Middle				
3465.00	Vertical	-48.57	-13.00	Pass
5197.50	V	-45.19		
6930.00	V	-40.57		
3465.00	Horizontal	-50.70		
5197.50	H	-44.16		
6930.00	H	-40.16		
Highest				
3505.00	Vertical	-47.49	-13.00	Pass
5257.50	V	-45.41		
7010.00	V	-40.58		
3505.00	Horizontal	-50.12		
5257.50	H	-45.92		
7010.00	H	-40.98		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-48.77	-13.00	Pass
5145.00	V	-47.78		
6860.00	V	-42.95		
3430.00	Horizontal	-50.84		
5145.00	H	-45.84		
6860.00	H	-40.08		
Middle				
3465.00	Vertical	-48.21	-13.00	Pass
5197.50	V	-45.57		
6930.00	V	-40.48		
3465.00	Horizontal	-50.41		
5197.50	H	-44.19		
6930.00	H	-40.84		
Highest				
3500.00	Vertical	-47.49	-13.00	Pass
5250.00	V	-45.71		
7000.00	V	-40.84		
3500.00	Horizontal	-50.57		
5250.00	H	-45.42		
7000.00	H	-40.69		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-48.97	-13.00	Pass
5152.50	V	-47.57		
6870.00	V	-42.19		
3435.00	Horizontal	-50.84		
5152.50	H	-45.85		
6870.00	H	-40.44		
Middle				
3465.00	Vertical	-48.76	-13.00	Pass
5197.50	V	-45.93		
6930.00	V	-40.03		
3465.00	Horizontal	-50.12		
5197.50	H	-44.78		
6930.00	H	-40.44		
Highest				
3495.00	Vertical	-47.66	-13.00	Pass
5242.50	V	-45.62		
6990.00	V	-40.11		
3495.00	Horizontal	-50.16		
5242.50	H	-45.98		
6990.00	H	-40.75		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-48.55	-13.00	Pass
5160.00	V	-47.98		
6880.00	V	-42.78		
3440.00	Horizontal	-50.45		
5160.00	H	-45.48		
6880.00	H	-40.41		
Middle				
3465.00	Vertical	-48.07	-13.00	Pass
5197.50	V	-45.57		
6930.00	V	-40.16		
3465.00	Horizontal	-50.74		
5197.50	H	-44.41		
6930.00	H	-40.84		
Highest				
3490.00	Vertical	-47.55	-13.00	Pass
5235.00	V	-45.41		
6980.00	V	-40.39		
3490.00	Horizontal	-50.48		
5235.00	H	-45.45		
6980.00	H	-40.10		

LTE Band 7 Part:

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

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5005.00	Vertical	-44.73	-25.00	Pass
7507.50	V	-39.78		
10010.00	V	-38.25		
5005.00	Horizontal	-46.75		
7507.50	H	-40.48		
10010.00	H	-36.39		
Middle				
5070.00	Vertical	-45.34	-25.00	Pass
7605.00	V	-39.87		
10140.00	V	-36.28		
5070.00	Horizontal	-46.27		
7605.00	H	-39.84		
10140.00	H	-36.89		
Highest				
5135.00	Vertical	-45.72	-25.00	Pass
7702.50	V	-38.17		
10270.00	V	-37.35		
5135.00	Horizontal	-45.58		
7702.50	H	-40.16		
10270.00	H	-37.96		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5010.00	Vertical	-44.51	-25.00	Pass
7515.00	V	-39.25		
10020.00	V	-38.51		
5010.00	Horizontal	-46.46		
7515.00	H	-40.34		
10020.00	H	-36.53		
Middle				
5070.00	Vertical	-45.51	-25.00	Pass
7605.00	V	-39.18		
10140.00	V	-36.35		
5070.00	Horizontal	-46.73		
7605.00	H	-39.33		
10140.00	H	-36.17		
Highest				
5130.00	Vertical	-45.73	-25.00	Pass
7695.00	V	-38.46		
10260.00	V	-37.73		
5130.00	Horizontal	-45.86		
7695.00	H	-40.73		
10260.00	H	-37.45		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5015.00	Vertical	-44.73	-25.00	Pass
7522.50	V	-39.45		
10030.00	V	-38.37		
5015.00	Horizontal	-46.35		
7522.50	H	-40.24		
10030.00	H	-36.92		
Middle				
5070.00	Vertical	-45.73	-25.00	Pass
7605.00	V	-39.86		
10140.00	V	-36.91		
5070.00	Horizontal	-46.42		
7605.00	H	-39.92		
10140.00	H	-36.83		
Highest				
5125.00	Vertical	-45.51	-25.00	Pass
7687.50	V	-38.53		
10250.00	V	-37.56		
5125.00	Horizontal	-45.46		
7687.50	H	-40.18		
10250.00	H	-37.57		

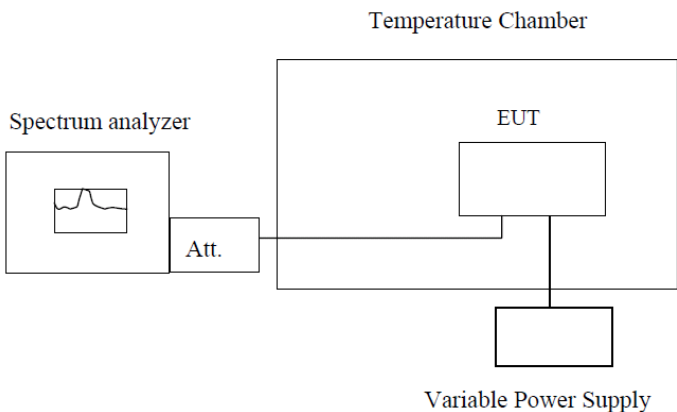
20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5020.00	Vertical	-44.51	-25.00	Pass
7530.00	V	-39.12		
10040.00	V	-39.51		
5020.00	Horizontal	-46.73		
7530.00	H	-40.41		
10040.00	H	-36.84		
Middle				
5070.00	Vertical	-45.45	-25.00	Pass
7605.00	V	-39.72		
10140.00	V	-36.42		
5070.00	Horizontal	-46.24		
7605.00	H	-39.17		
10140.00	H	-36.35		
Highest				
5120.00	Vertical	-45.24	-25.00	Pass
7680.00	V	-38.17		
10240.00	V	-37.42		
5120.00	Horizontal	-45.92		
7680.00	H	-40.37		
10240.00	H	-37.72		

LTE Band 13 Part:

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
1559.00	Vertical	-54.96	-13.00	Pass
2338.50	V	-57.09		
3118.00	V	-50.60		
1559.00	Horizontal	-56.83		
2338.50	H	-55.60		
3118.00	H	-49.90		
Middle				
1564.00	Vertical	-57.99	-13.00	Pass
2346.00	V	-58.26		
3128.00	V	-51.30		
1564.00	Horizontal	-58.88		
2346.00	H	-49.48		
3128.00	H	-52.80		
Highest				
1569.00	Vertical	-59.37	-13.00	Pass
2353.50	V	-57.43		
3138.00	V	-53.05		
1569.00	Horizontal	-60.67		
2353.50	H	-56.26		
3138.00	H	-54.14		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Middle				
1564.00	Vertical	-57.37	-13.00	Pass
2346.00	V	-58.41		
3128.00	V	-51.41		
1564.00	Horizontal	-58.99		
2346.00	H	-49.34		
3128.00	H	-52.68		

6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 24.235, Part 27.54, Part 2.1055(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		
3.80	-30	198	0.105319	±2.5	Pass
	-20	155	0.082447		
	-10	163	0.086702		
	0	123	0.065426		
	10	188	0.100000		
	20	174	0.092553		
	30	114	0.060638		
	40	105	0.055851		
	50	150	0.079787		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	123	0.065426	±2.5	Pass
	-20	150	0.079787		
	-10	166	0.088298		
	0	122	0.064894		
	10	144	0.076596		
	20	140	0.074468		
	30	156	0.082979		
	40	133	0.070745		
	50	138	0.073404		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.087766	±2.5	Pass
	-20	174	0.092553		
	-10	123	0.065426		
	0	136	0.072340		
	10	133	0.070745		
	20	104	0.055319		
	30	108	0.057447		
	40	128	0.068085		
	50	154	0.081915		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.087766	±2.5	Pass
	-20	174	0.092553		
	-10	170	0.090426		
	0	160	0.085106		
	10	123	0.065426		
	20	134	0.071277		
	30	144	0.076596		
	40	148	0.078723		
	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		
3.80	-30	163	0.086702	±2.5	Pass
	-20	123	0.065426		
	-10	134	0.071277		
	0	128	0.068085		
	10	137	0.072872		
	20	144	0.076596		
	30	140	0.074468		
	40	150	0.079787		
	50	156	0.082979		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	199	0.105851	±2.5	Pass
	-20	123	0.065426		
	-10	152	0.080851		
	0	165	0.087766		
	10	180	0.095745		
	20	177	0.094149		
	30	145	0.077128		
	40	108	0.057447		
	50	117	0.062234		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	156	0.082979	±2.5	Pass
	-20	123	0.065426		
	-10	132	0.070213		
	0	136	0.072340		
	10	138	0.073404		
	20	127	0.067553		
	30	144	0.076596		
	40	148	0.078723		
	50	107	0.056915		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.082447	±2.5	Pass
	-20	123	0.065426		
	-10	136	0.072340		
	0	144	0.076596		
	10	171	0.090957		
	20	120	0.063830		
	30	148	0.078723		
	40	107	0.056915		
	50	116	0.061702		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	177	0.094149	±2.5	Pass
	-20	141	0.075000		
	-10	123	0.065426		
	0	136	0.072340		
	10	128	0.068085		
	20	150	0.079787		
	30	151	0.080319		
	40	160	0.085106		
	50	168	0.089362		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	187	0.099468	±2.5	Pass
	-20	123	0.065426		
	-10	165	0.087766		
	0	128	0.068085		
	10	177	0.094149		
	20	145	0.077128		
	30	140	0.074468		
	40	160	0.085106		
	50	118	0.062766		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.087766	±2.5	Pass
	-20	121	0.064362		
	-10	131	0.069681		
	0	136	0.072340		
	10	128	0.068085		
	20	144	0.076596		
	30	140	0.074468		
	40	150	0.079787		
	50	158	0.084043		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.087766	±2.5	Pass
	-20	123	0.065426		
	-10	144	0.076596		
	0	171	0.090957		
	10	180	0.095745		
	20	135	0.071809		
	30	108	0.057447		
	40	114	0.060638		
	50	109	0.057979		

LTE Band 4(QPSK):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	196	0.113131	±2.5	Pass
	-20	123	0.070996		
	-10	147	0.084848		
	0	181	0.104473		
	10	160	0.092352		
	20	151	0.087157		
	30	132	0.076190		
	40	107	0.061760		
	50	118	0.068110		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	156	0.090043	±2.5	Pass
	-20	123	0.070996		
	-10	134	0.077345		
	0	174	0.100433		
	10	146	0.084271		
	20	128	0.073882		
	30	150	0.086580		
	40	108	0.062338		
	50	117	0.067532		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.095238	±2.5	Pass
	-20	123	0.070996		
	-10	134	0.077345		
	0	128	0.073882		
	10	171	0.098701		
	20	148	0.085426		
	30	108	0.062338		
	40	155	0.089466		
	50	150	0.086580		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	168	0.096970	±2.5	Pass
	-20	171	0.098701		
	-10	152	0.087734		
	0	132	0.076190		
	10	104	0.060029		
	20	144	0.083117		
	30	148	0.085426		
	40	129	0.074459		
	50	118	0.068110		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	152	0.087734	±2.5	Pass
	-20	162	0.093506		
	-10	132	0.076190		
	0	138	0.079654		
	10	144	0.083117		
	20	160	0.092352		
	30	171	0.098701		
	40	105	0.060606		
	50	118	0.068110		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	198	0.114286	±2.5	Pass
	-20	123	0.070996		
	-10	165	0.095238		
	0	171	0.098701		
	10	180	0.103896		
	20	144	0.083117		
	30	150	0.086580		
	40	158	0.091198		
	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		
3.80	-30	123	0.070996	±2.5	Pass
	-20	150	0.086580		
	-10	144	0.083117		
	0	126	0.072727		
	10	155	0.089466		
	20	138	0.079654		
	30	131	0.075613		
	40	148	0.085426		
	50	109	0.062915		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	164	0.094661	±2.5	Pass
	-20	123	0.070996		
	-10	138	0.079654		
	0	130	0.075036		
	10	166	0.095815		
	20	160	0.092352		
	30	155	0.089466		
	40	158	0.091198		
	50	149	0.086003		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	158	0.091198	±2.5	Pass
	-20	162	0.093506		
	-10	132	0.076190		
	0	144	0.083117		
	10	171	0.098701		
	20	123	0.070996		
	30	138	0.079654		
	40	129	0.074459		
	50	118	0.068110		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.095238	±2.5	Pass
	-20	123	0.070996		
	-10	135	0.077922		
	0	144	0.083117		
	10	168	0.096970		
	20	160	0.092352		
	30	155	0.089466		
	40	150	0.086580		
	50	109	0.062915		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.089466	±2.5	Pass
	-20	123	0.070996		
	-10	144	0.083117		
	0	148	0.085426		
	10	128	0.073882		
	20	133	0.076768		
	30	136	0.078499		
	40	105	0.060606		
	50	116	0.066955		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.095238	±2.5	Pass
	-20	123	0.070996		
	-10	130	0.075036		
	0	144	0.083117		
	10	150	0.086580		
	20	155	0.089466		
	30	108	0.062338		
	40	119	0.068687		
	50	101	0.058297		

LTE Band 7(QPSK):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	198	0.078107	±2.5	Pass
	-20	123	0.048521		
	-10	136	0.053649		
	0	120	0.047337		
	10	130	0.051282		
	20	144	0.056805		
	30	147	0.057988		
	40	160	0.063116		
	50	169	0.066667		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.061144	±2.5	Pass
	-20	123	0.048521		
	-10	130	0.051282		
	0	160	0.063116		
	10	144	0.056805		
	20	142	0.056016		
	30	118	0.046548		
	40	109	0.042998		
	50	103	0.040631		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.061144	±2.5	Pass
	-20	123	0.048521		
	-10	136	0.053649		
	0	134	0.052860		
	10	120	0.047337		
	20	114	0.044970		
	30	108	0.042604		
	40	144	0.056805		
	50	146	0.057594		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	198	0.078107	±2.5	Pass
	-20	123	0.048521		
	-10	128	0.050493		
	0	166	0.065483		
	10	177	0.069822		
	20	150	0.059172		
	30	180	0.071006		
	40	133	0.052465		
	50	142	0.056016		

LTE Band 7(16QAM):

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

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.065089	±2.5	Pass
	-20	123	0.048521		
	-10	134	0.052860		
	0	126	0.049704		
	10	130	0.051282		
	20	144	0.056805		
	30	148	0.058383		
	40	107	0.042209		
	50	109	0.042998		

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

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	157	0.061933	±2.5	Pass
	-20	146	0.057594		
	-10	160	0.063116		
	0	132	0.052071		
	10	130	0.051282		
	20	166	0.065483		
	30	141	0.055621		
	40	105	0.041420		
	50	116	0.045759		

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

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.061144	2.5	Pass
	-20	132	0.052071		
	-10	136	0.053649		
	0	144	0.056805		
	10	140	0.055227		
	20	123	0.048521		
	30	128	0.050493		
	40	160	0.063116		
	50	129	0.050888		

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

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	156	0.061538	2.5	Pass
	-20	123	0.048521		
	-10	130	0.051282		
	0	144	0.056805		
	10	148	0.058383		
	20	116	0.045759		
	30	104	0.041026		
	40	109	0.042998		
	50	160	0.063116		

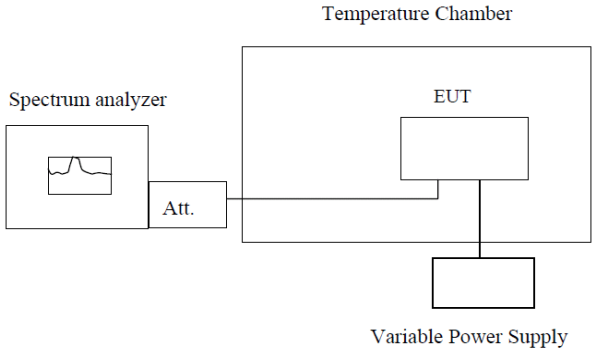
LTE Band 13(QPSK):

Reference Frequency: LTE Band 13(5MHz) Middle channel=23230 channel=782.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	198	0.253197	±2.5	Pass
	-20	123	0.157289		
	-10	165	0.210997		
	0	130	0.166240		
	10	127	0.162404		
	20	133	0.170077		
	30	161	0.205882		
	40	108	0.138107		
	50	114	0.145780		
Reference Frequency: LTE Band 13(10MHz) Middle channel=23230 channel=782.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	192	0.245524	±2.5	Pass
	-20	123	0.157289		
	-10	130	0.166240		
	0	144	0.184143		
	10	161	0.205882		
	20	160	0.204604		
	30	155	0.198210		
	40	150	0.191816		
	50	171	0.218670		

LTE Band 17(16QAM):

Reference Frequency: LTE Band 13(5MHz) Middle channel=23230 channel=782.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	155	0.198210	±2.5	Pass
	-20	123	0.157289		
	-10	130	0.166240		
	0	166	0.212276		
	10	128	0.163683		
	20	133	0.170077		
	30	144	0.184143		
	40	140	0.179028		
	50	119	0.152174		
Reference Frequency: LTE Band 13(10MHz) Middle channel=23230 channel=782.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	165	0.210997	±2.5	Pass
	-20	123	0.157289		
	-10	144	0.184143		
	0	142	0.181586		
	10	130	0.166240		
	20	136	0.173913		
	30	148	0.189258		
	40	118	0.150895		
	50	109	0.139386		

6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 24.235, Part 27.54, Part 2.1055(d)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.
Test results:	Passed

Measurement Data (the worst channel):

LTE Band 2(QPSK):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	99	0.052660	±2.5	Pass
	3.80	65	0.034574		
	3.23	45	0.023936		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	81	0.043085	±2.5	Pass
	3.80	66	0.035106		
	3.23	36	0.019149		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	88	0.046809	±2.5	Pass
	3.80	74	0.039362		
	3.23	45	0.023936		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	98	0.052128	±2.5	Pass
	3.80	65	0.034574		
	3.23	74	0.039362		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	80	0.042553	±2.5	Pass
	3.80	96	0.051064		
	3.23	48	0.025532		
Reference Frequency: LTE Band 2(20MHz) Middle channel=20175 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	90	0.047872	±2.5	Pass
	3.80	84	0.044681		
	3.23	73	0.038830		

LTE Band 2(16QAM):

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	96	0.051064	±2.5	Pass
	3.80	85	0.045213		
	3.23	45	0.023936		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	66	0.035106	±2.5	Pass
	3.80	91	0.048404		
	3.23	84	0.044681		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	80	0.042553	±2.5	Pass
	3.80	65	0.034574		
	3.23	92	0.048936		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	84	0.044681	±2.5	Pass
	3.80	66	0.035106		
	3.23	82	0.043617		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	90	0.047872	±2.5	Pass
	3.80	63	0.033511		
	3.23	85	0.045213		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	74	0.039362	±2.5	Pass
	3.80	80	0.042553		
	3.23	63	0.033511		

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	4.37	90	0.051948	±2.5	Pass
	3.80	56	0.032323		
	3.23	81	0.046753		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	80	0.046176	±2.5	Pass
	3.80	45	0.025974		
	3.23	68	0.039250		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	87	0.050216	±2.5	Pass
	3.80	90	0.051948		
	3.23	45	0.025974		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	50	0.028860	±2.5	Pass
	3.80	81	0.046753		
	3.23	65	0.037518		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	90	0.051948	±2.5	Pass
	3.80	85	0.049062		
	3.23	48	0.027706		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	99	0.057143	±2.5	Pass
	3.80	84	0.048485		
	3.23	62	0.035786		

LTE Band 4(16QAM):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	85	0.049062	±2.5	Pass
	3.80	64	0.036941		
	3.23	74	0.042713		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	80	0.046176	±2.5	Pass
	3.80	45	0.025974		
	3.23	71	0.040981		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	88	0.050794	±2.5	Pass
	3.80	90	0.051948		
	3.23	65	0.037518		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	80	0.046176	±2.5	Pass
	3.80	91	0.052525		
	3.23	45	0.025974		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	66	0.038095	±2.5	Pass
	3.80	82	0.047330		
	3.23	48	0.027706		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	90	0.051948	±2.5	Pass
	3.80	74	0.042713		
	3.23	80	0.046176		

LTE Band 7(QPSK):

LTE Band 7(5MHz):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	66	0.026036	±2.5	Pass
	3.80	91	0.035897		
	3.23	88	0.034714		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	74	0.029191	±2.5	Pass
	3.80	68	0.026824		
	3.23	80	0.031558		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	93	0.036686	±2.5	Pass
	3.80	84	0.033136		
	3.23	46	0.018146		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	90	0.035503	±2.5	Pass
	3.80	65	0.025641		
	3.23	80	0.031558		

LTE Band 7(16QAM):

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	95	0.037475	±2.5	Pass
	3.80	68	0.026824		
	3.23	74	0.029191		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	84	0.033136	±2.5	Pass
	3.80	48	0.018935		
	3.23	90	0.035503		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	88	0.034714	±2.5	Pass
	3.80	45	0.017751		
	3.23	90	0.035503		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	90	0.035503	±2.5	Pass
	3.80	65	0.025641		
	3.23	81	0.031953		

LTE Band 13(QPSK):

Reference Frequency: LTE Band 13(5MHz) Middle channel=23230 channel=782.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	77	0.098465	±2.5	Pass
	3.80	84	0.107417		
	3.23	95	0.121483		
Reference Frequency: LTE Band 13(10MHz) Middle channel=23230 channel=782.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	65	0.083120	±2.5	Pass
	3.80	82	0.104859		
	3.23	48	0.061381		

LTE Band 13(16QAM):

Reference Frequency: LTE Band 13(5MHz) Middle channel=23230 channel=782.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	99	0.126598	±2.5	Pass
	3.80	65	0.083120		
	3.23	45	0.057545		
Reference Frequency: LTE Band 13(10MHz) Middle channel=23230 channel=782.00MHz					
Temperature (℃)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	80	0.102302	±2.5	Pass
	3.80	47	0.060102		
	3.23	66	0.084399		