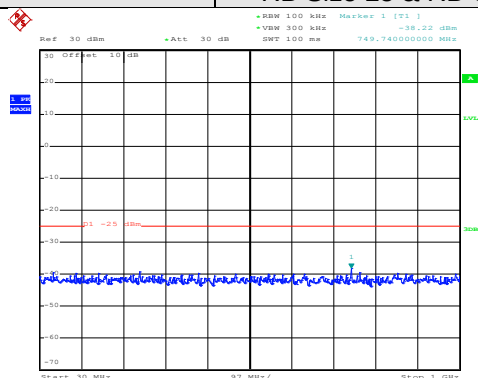
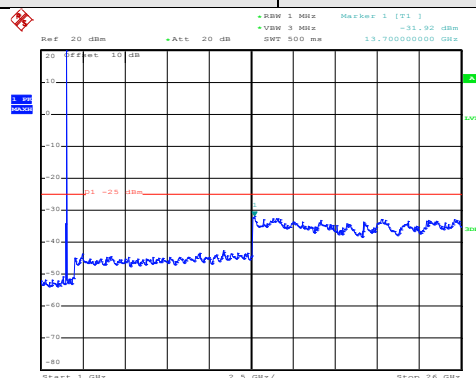


Test Mode:	LTE band 7(5MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:25:32

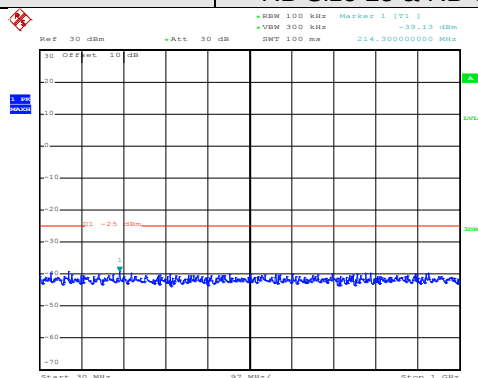
30MHz~1GHz



Date: 1.JUL.2017 17:59:19

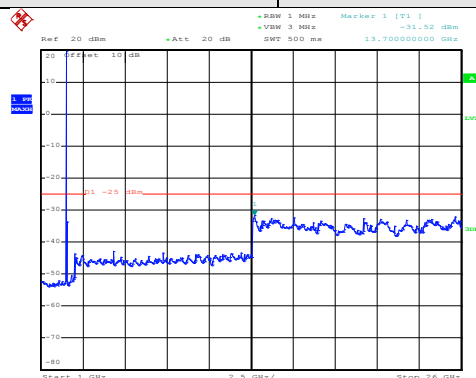
1GHz~26GHz

Test Mode:	LTE band 7(5MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:26:13

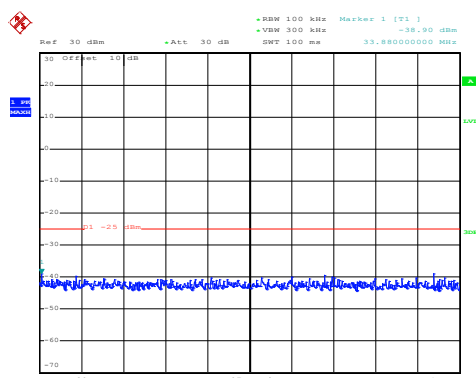
30MHz~1GHz



Date: 1.JUL.2017 18:00:23

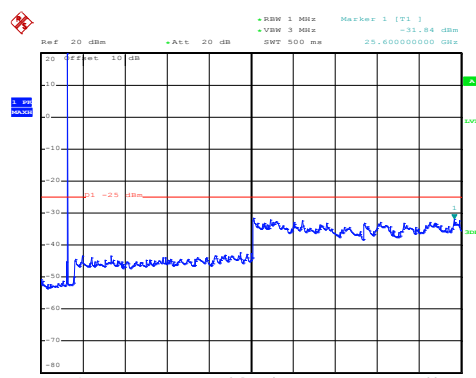
1GHz~26GHz

Test Mode:	LTE band 7(5MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:26:51

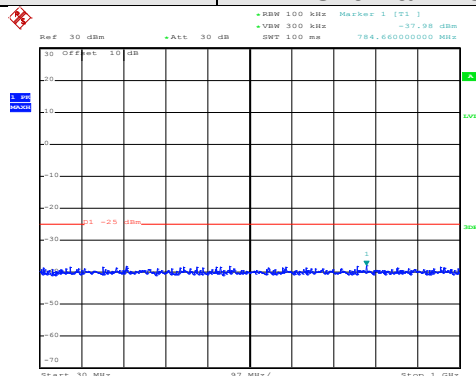
30MHz~1GHz



Date: 1.JUL.2017 18:01:43

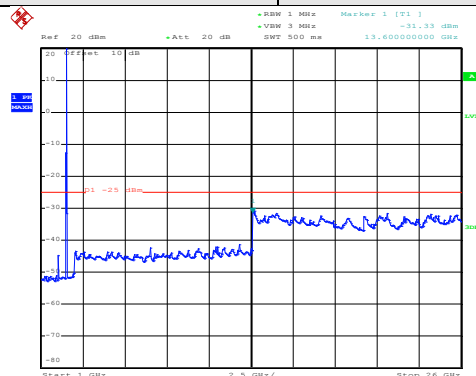
1GHz~26GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:24:56

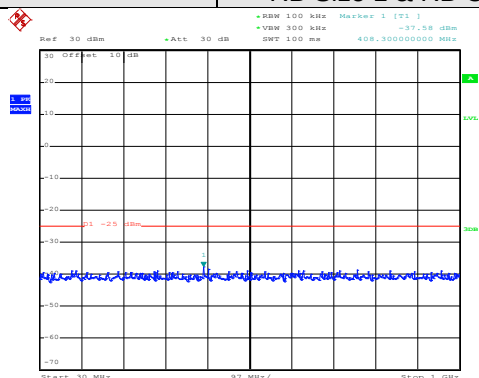
30MHz~1GHz



Date: 1.JUL.2017 17:58:25

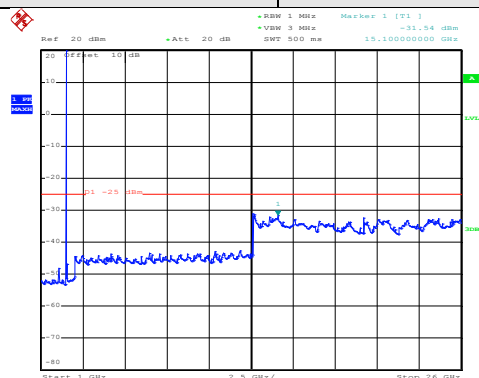
1GHz~26GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:25:46

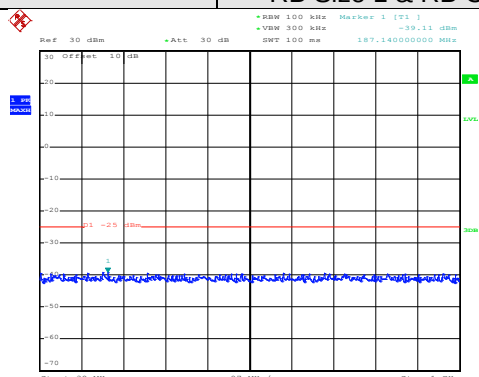
30MHz~1GHz



Date: 1.JUL.2017 17:59:38

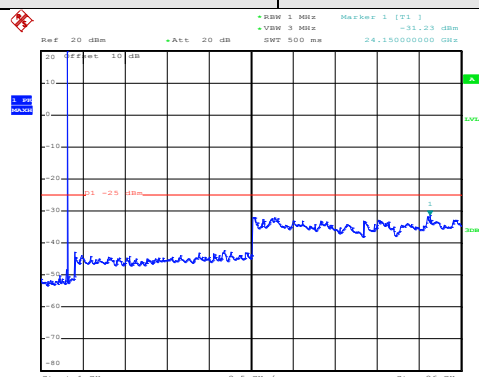
1GHz~26GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:26:22

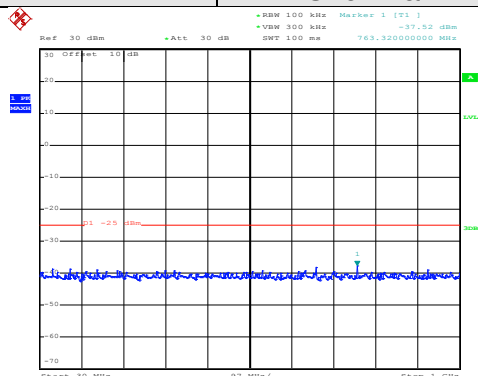
30MHz~1GHz



Date: 1.JUL.2017 18:00:41

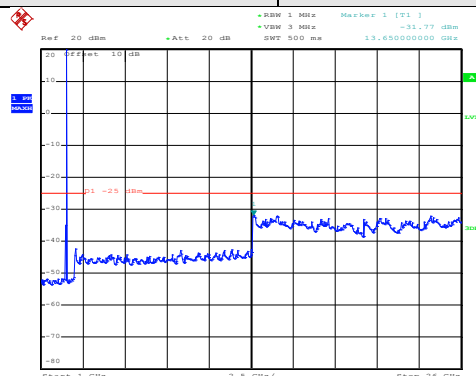
1GHz~26GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 12 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:25:14

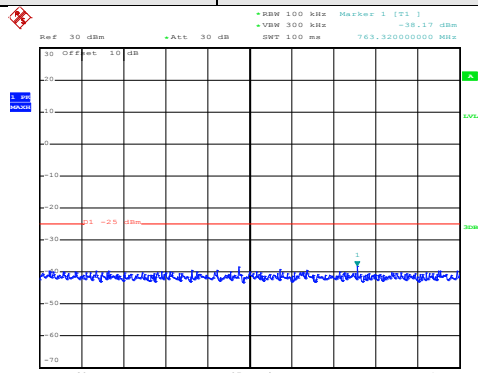
30MHz~1GHz



Date: 1.JUL.2017 17:58:51

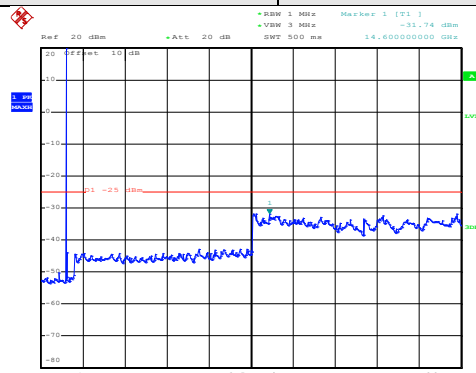
1GHz~26GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 12 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:25:57

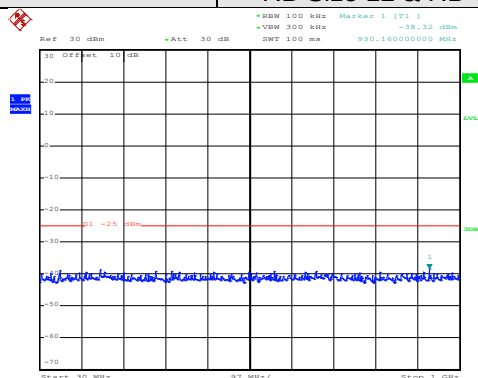
30MHz~1GHz



Date: 1.JUL.2017 17:59:57

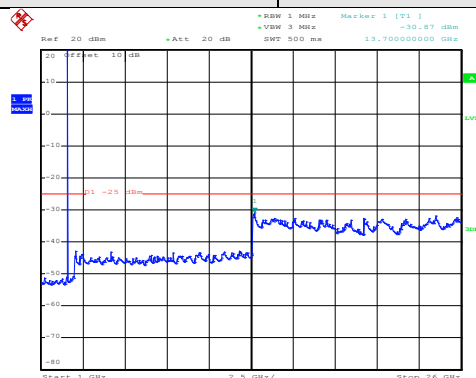
1GHz~26GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 12 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:26:34

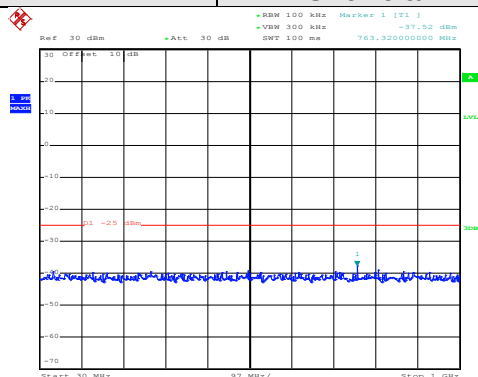
30MHz~1GHz



Date: 1.JUL.2017 18:01:01

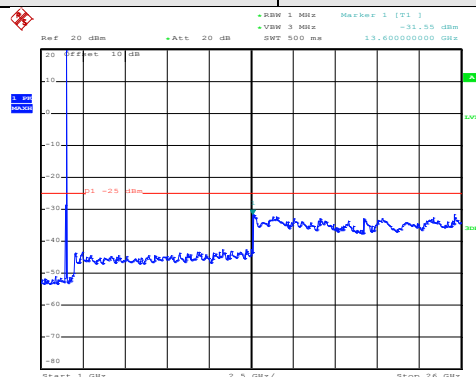
1GHz~26GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:25:26

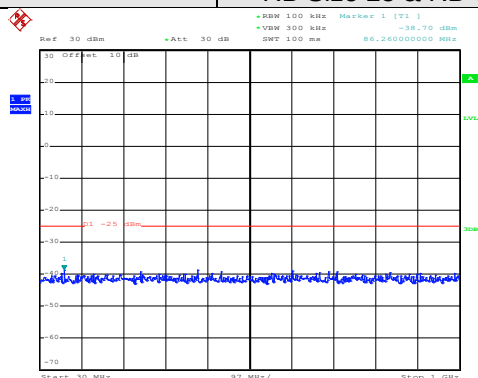
30MHz~1GHz



Date: 1.JUL.2017 17:59:11

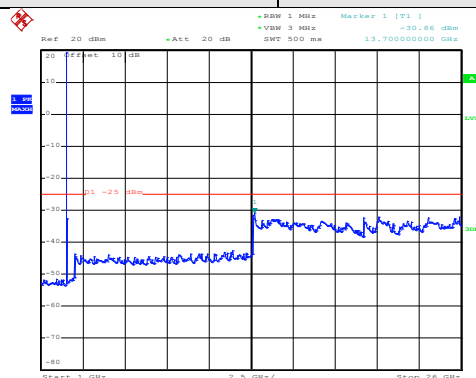
1GHz~26GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:26:08

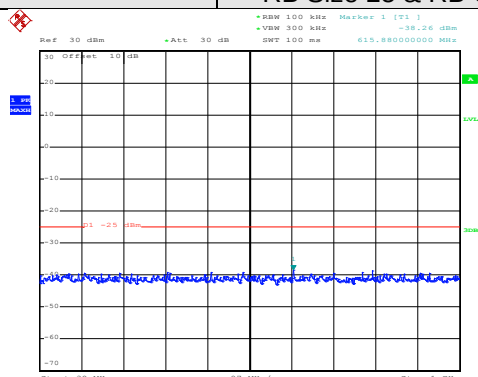
30MHz~1GHz



Date: 1.JUL.2017 18:00:16

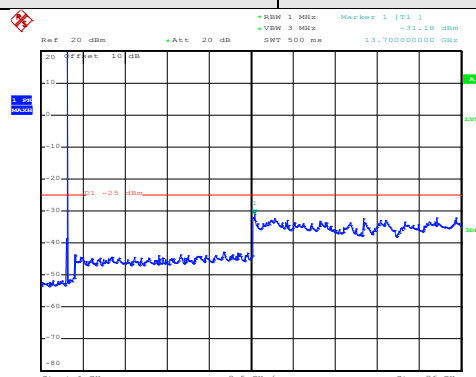
1GHz~26GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:26:47

30MHz~1GHz

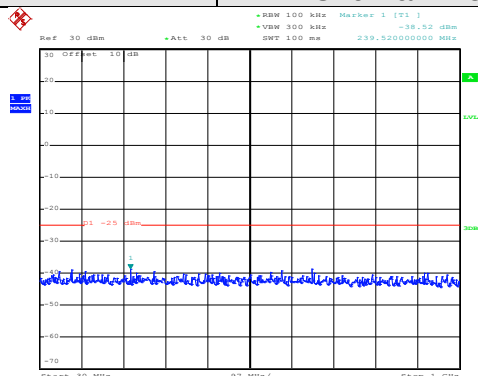


Date: 1.JUL.2017 18:01:28

1GHz~26GHz

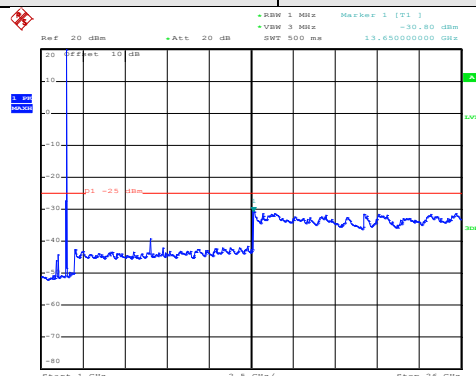
10MHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:27:05

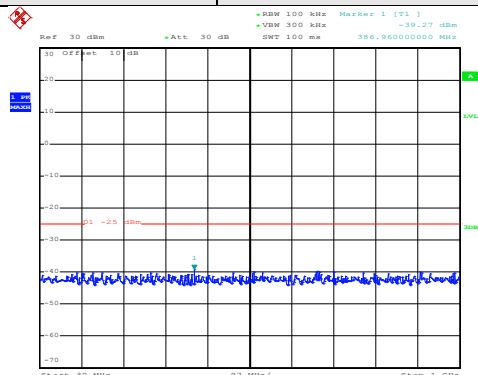
30MHz~1GHz



Date: 1.JUL.2017 18:08:44

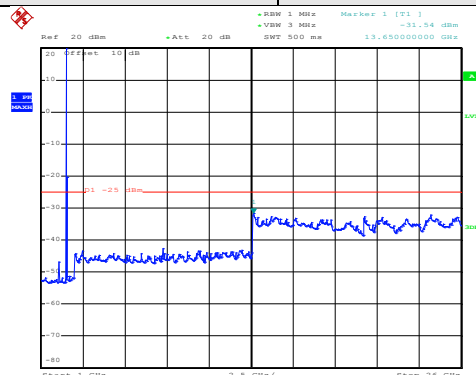
1GHz~26GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:27:46

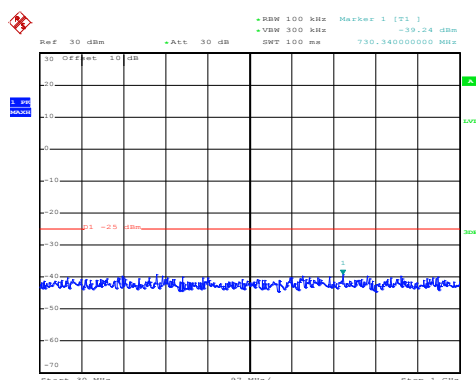
30MHz~1GHz



Date: 1.JUL.2017 18:10:03

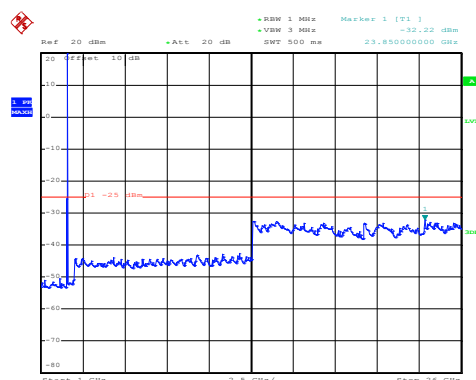
1GHz~26GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:28:21

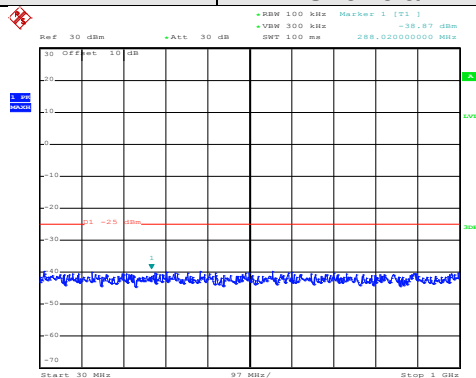
30MHz~1GHz



Date: 1.JUL.2017 18:11:17

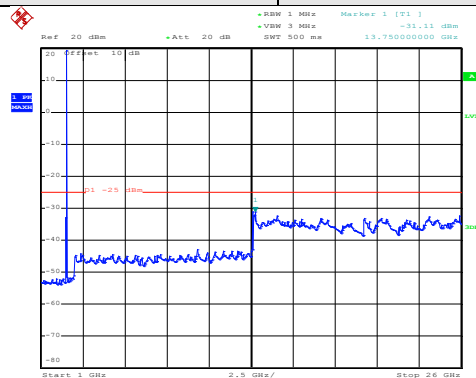
1GHz~26GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:27:18

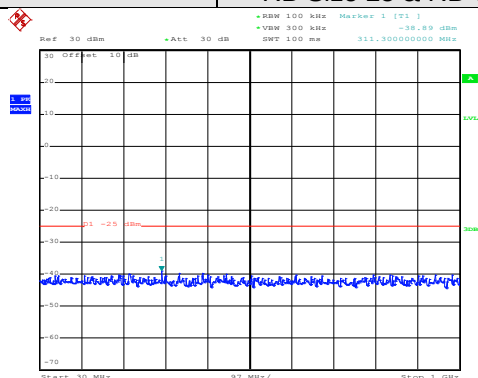
30MHz~1GHz



Date: 1.JUL.2017 18:09:15

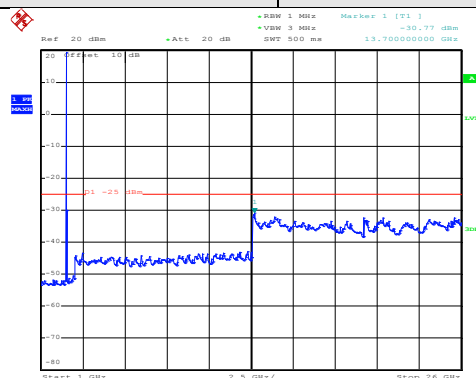
1GHz~26GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:27:57

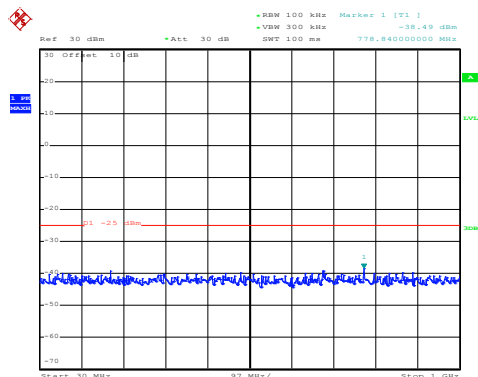
30MHz~1GHz



Date: 1.JUL.2017 18:10:26

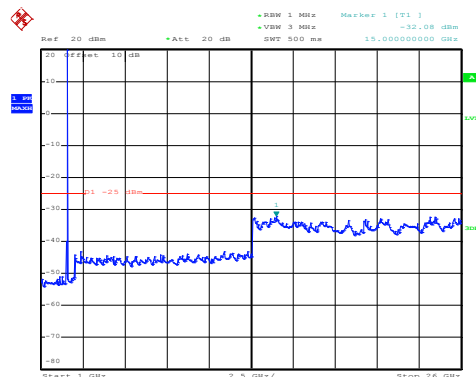
1GHz~26GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:28:32

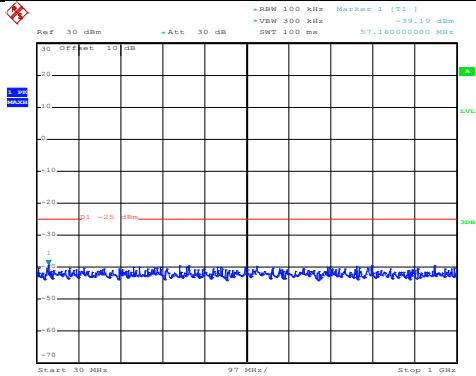
30MHz~1GHz



Date: 1.JUL.2017 18:11:37

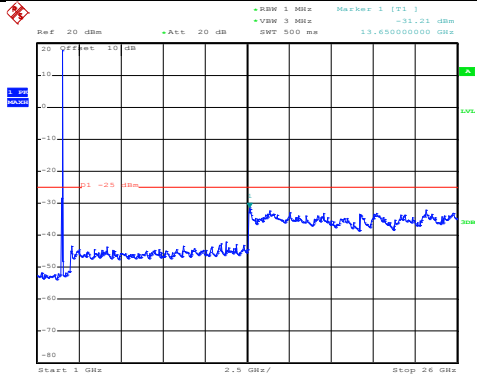
1GHz~26GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1,JUL.2017 21:27:30

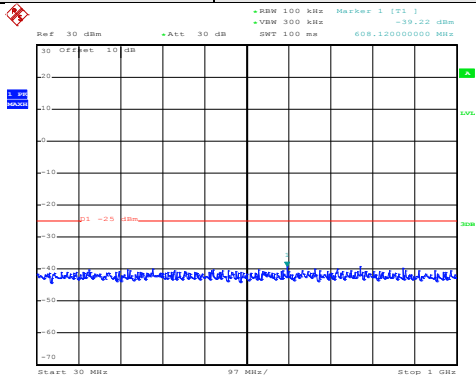
30MHz~1GHz



Date: 1,JUL.2017 18:09:35

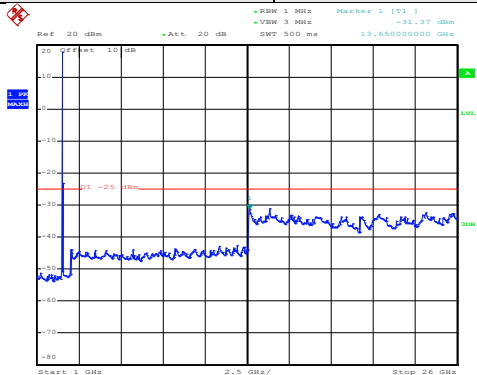
1GHz~26GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Middle channel
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Date: 1,JUL.2017 21:28:08

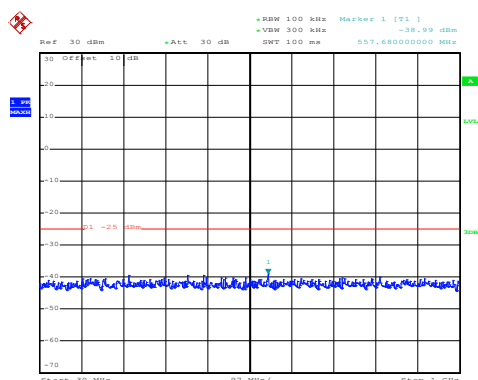
30MHz~1GHz



Date: 1,JUL.2017 18:10:48

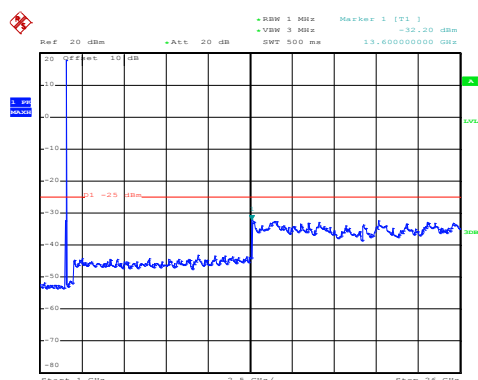
1GHz~26GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:28:42

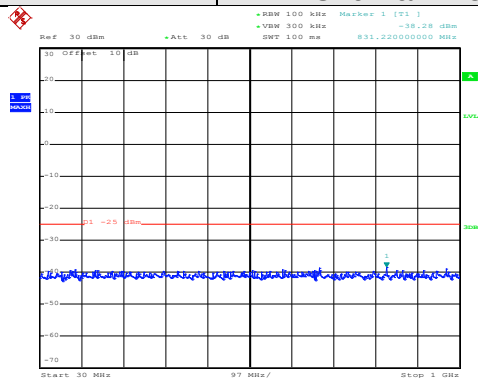
30MHz~1GHz



Date: 1.JUL.2017 18:11:56

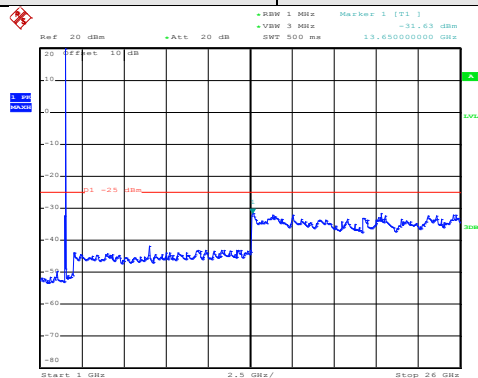
1GHz~26GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:27:01

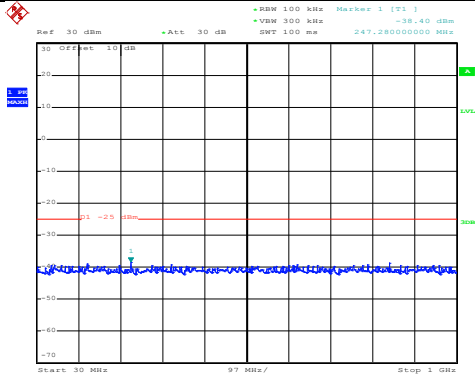
30MHz~1GHz



Date: 1.JUL.2017 18:02:43

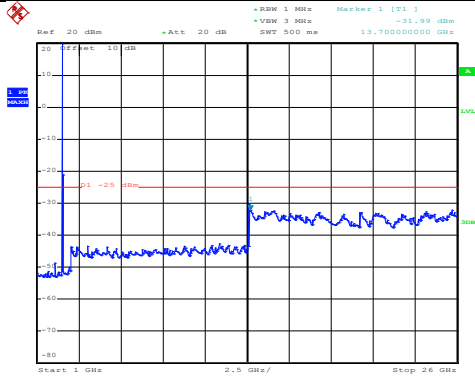
1GHz~26GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 1,JUL.2017 21:27:42

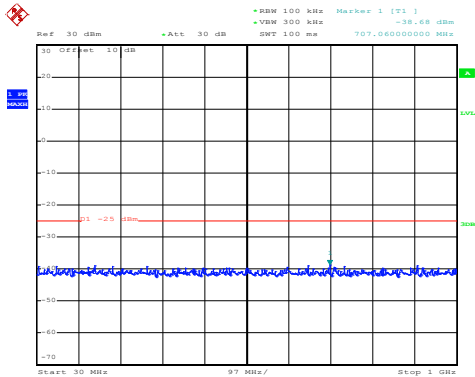
30MHz~1GHz



Date: 1,JUL.2017 18:09:53

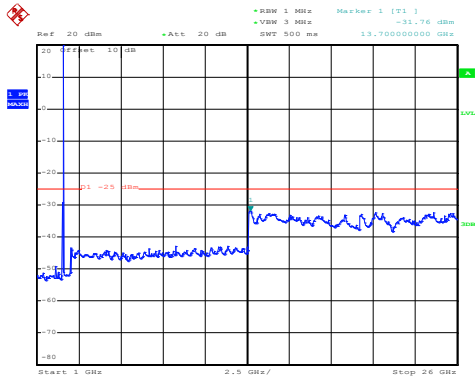
1GHz~26GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 1,JUL.2017 21:28:17

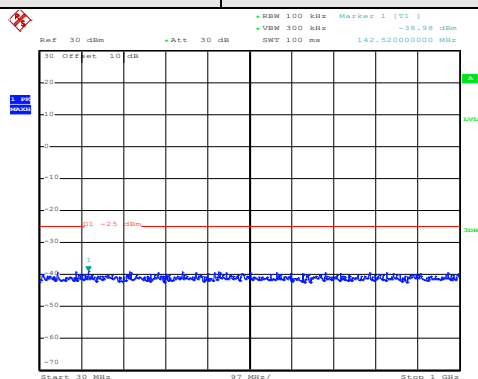
30MHz~1GHz



Date: 1,JUL.2017 18:11:07

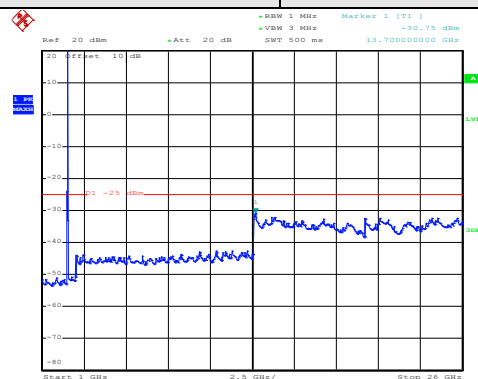
1GHz~26GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:27:14

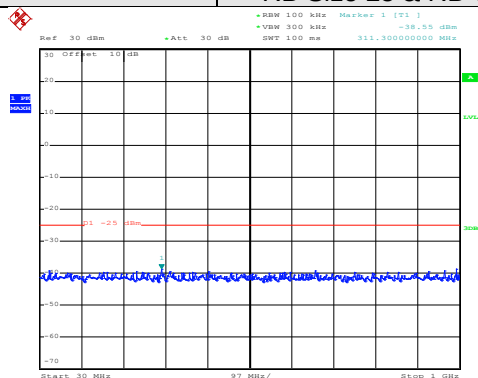
30MHz~1GHz



Date: 1.JUL.2017 18:09:07

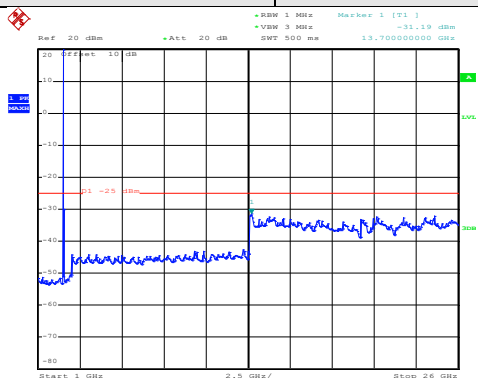
1GHz~26GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:27:53

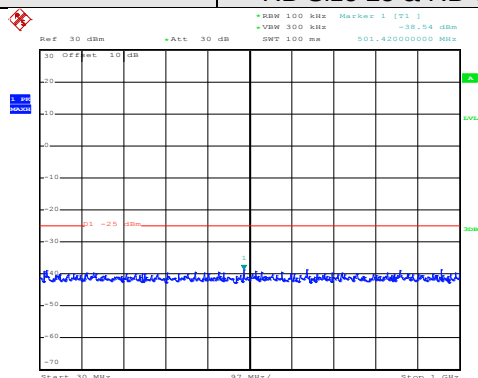
30MHz~1GHz



Date: 1.JUL.2017 18:10:16

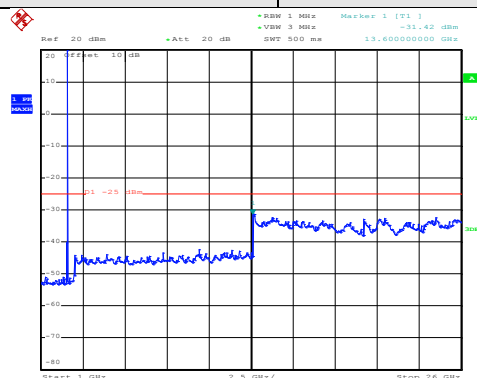
1GHz~26GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:28:28

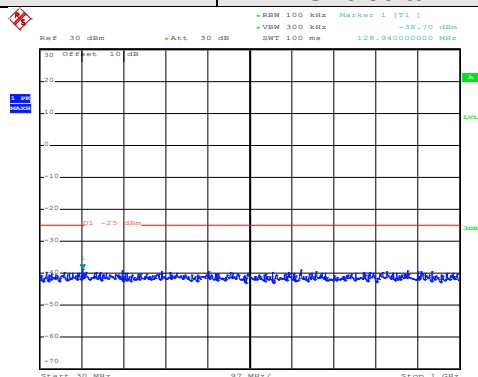
30MHz~1GHz



Date: 1.JUL.2017 18:11:29

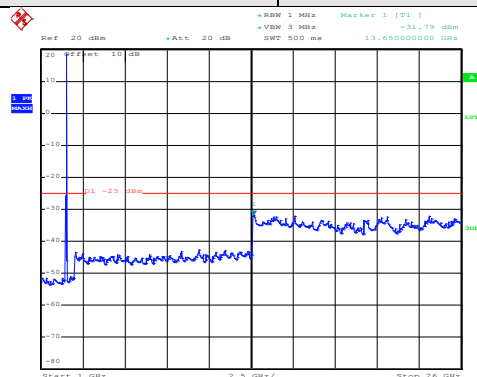
1GHz~26GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:27:26

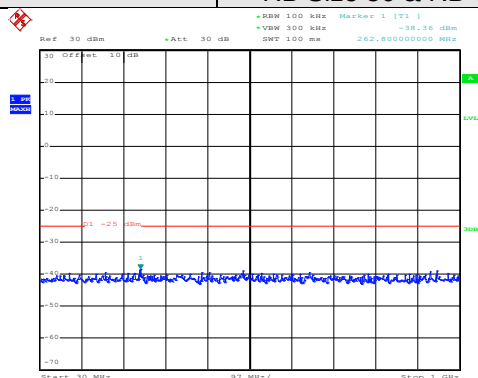
30MHz~1GHz



Date: 1.JUL.2017 18:09:28

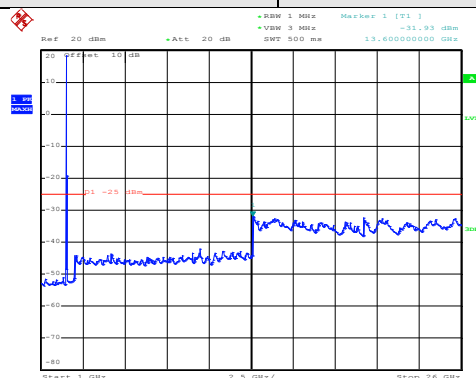
1GHz~26GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:28:04

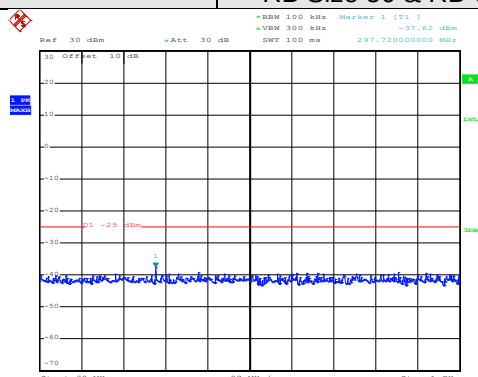
30MHz~1GHz



Date: 1.JUL.2017 18:10:38

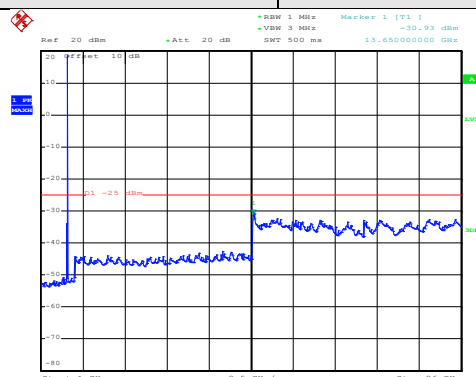
1GHz~26GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:28:38

30MHz~1GHz

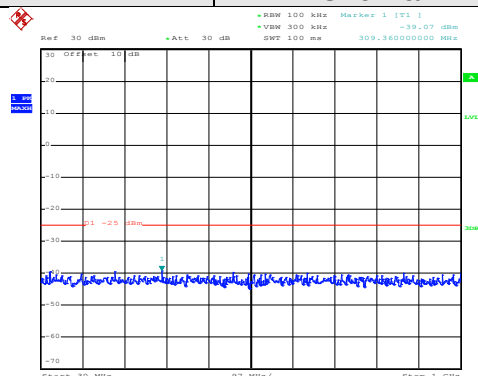


Date: 1.JUL.2017 18:11:48

1GHz~26GHz

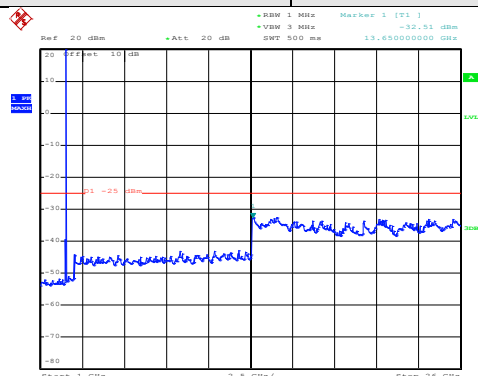
15MHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:28:56

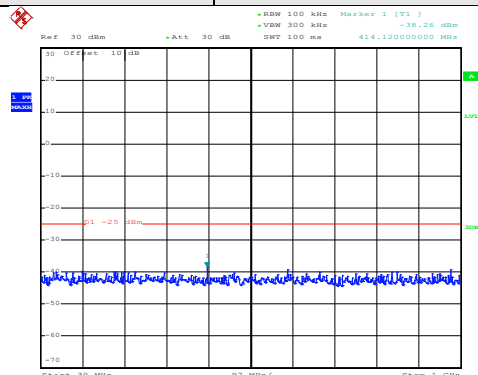
30MHz~1GHz



Date: 1.JUL.2017 18:13:33

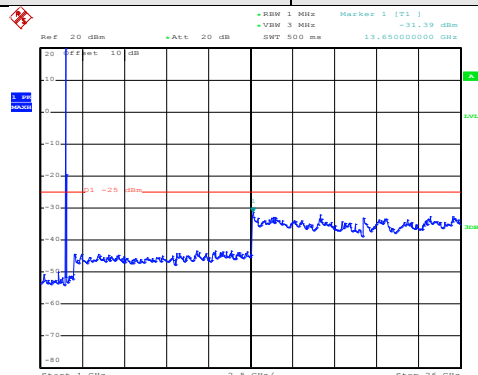
1GHz~26GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:29:32

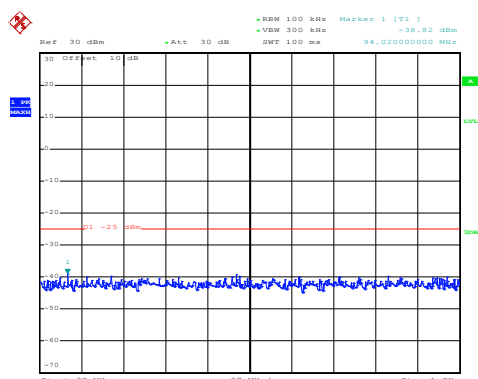
30MHz~1GHz



Date: 1.JUL.2017 18:14:40

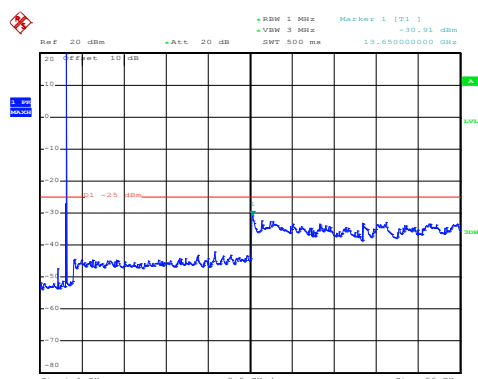
1GHz~26GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:30:08

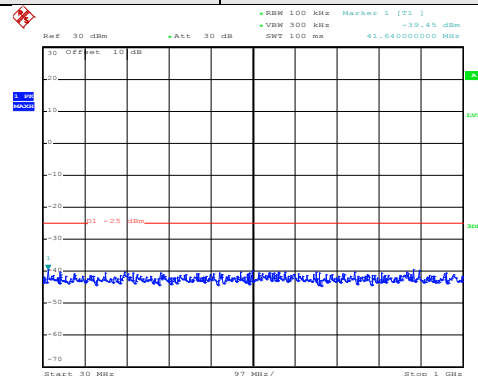
30MHz~1GHz



Date: 1.JUL.2017 18:15:44

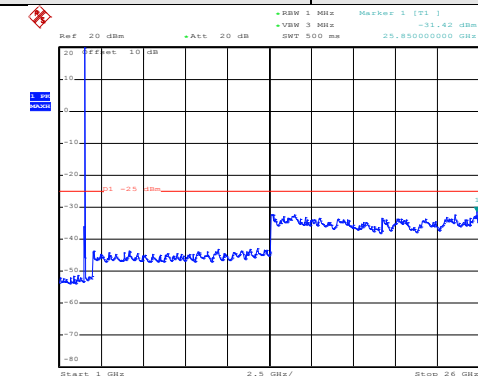
1GHz~26GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 36 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:29:06

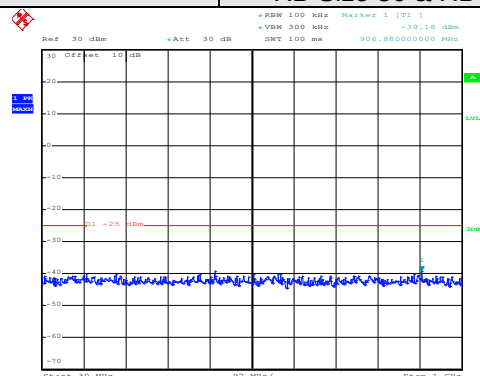
30MHz~1GHz



Date: 1.JUL.2017 18:13:15

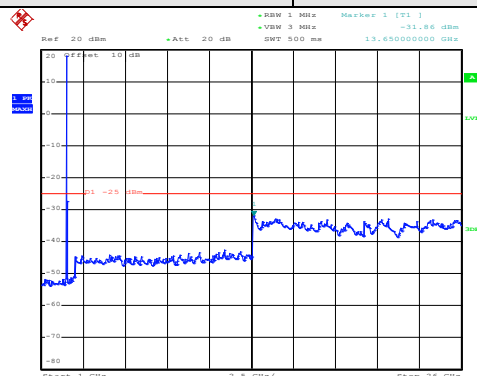
1GHz~26GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 36 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:29:43

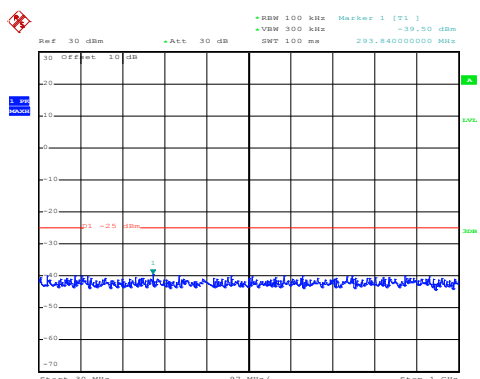
30MHz~1GHz



Date: 1.JUL.2017 18:15:00

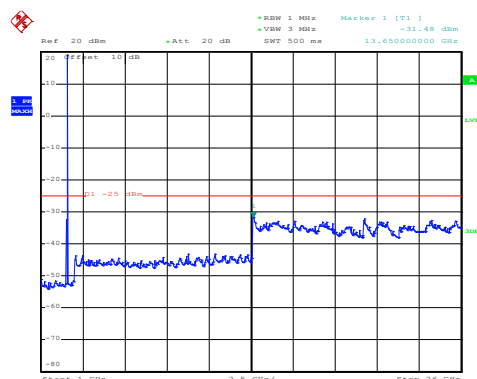
1GHz~26GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 36 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:30:19

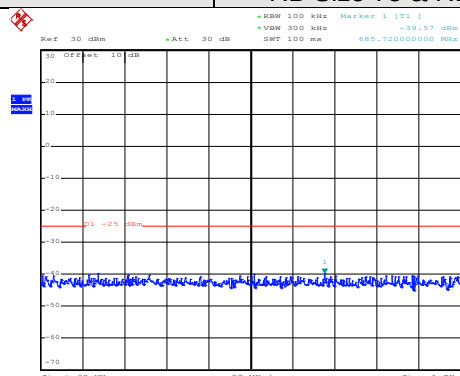
30MHz~1GHz



Date: 1.JUL.2017 18:16:08

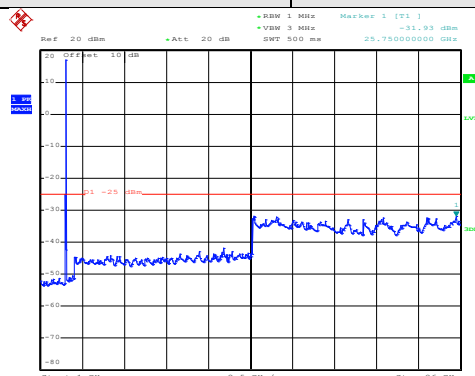
1GHz~26GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 75 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:29:17

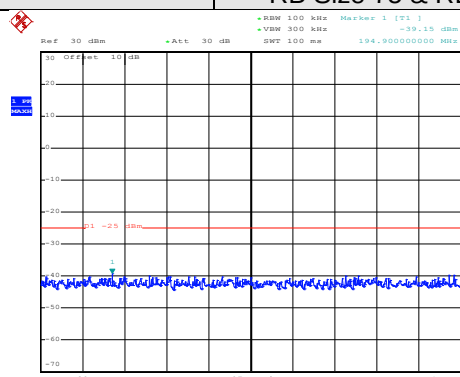
30MHz~1GHz



Date: 1.JUL.2017 18:13:54

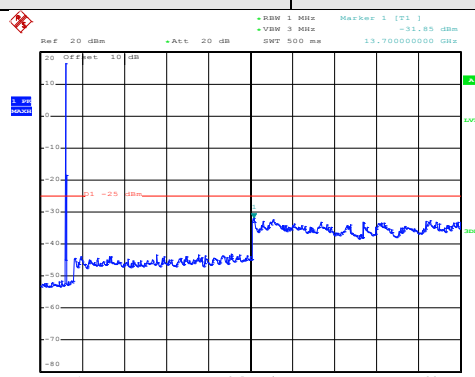
1GHz~26GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 75 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:29:55

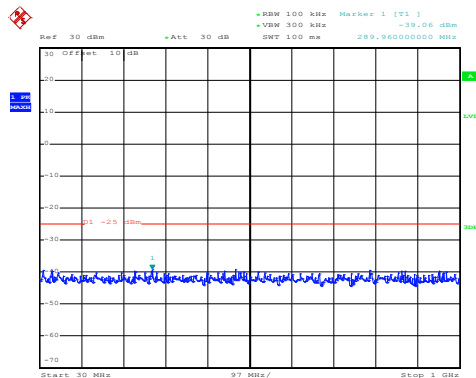
30MHz~1GHz



Date: 1.JUL.2017 18:15:17

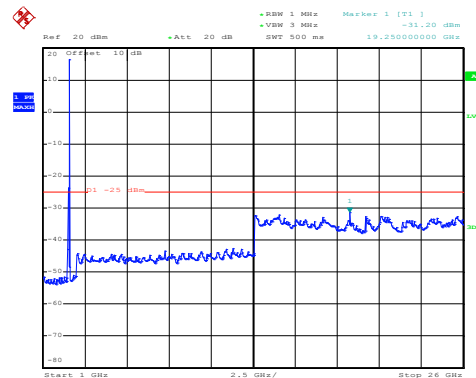
1GHz~26GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 75 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:30:30

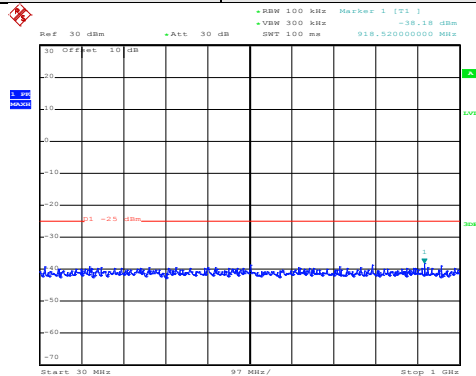
30MHz~1GHz



Date: 1.JUL.2017 18:16:37

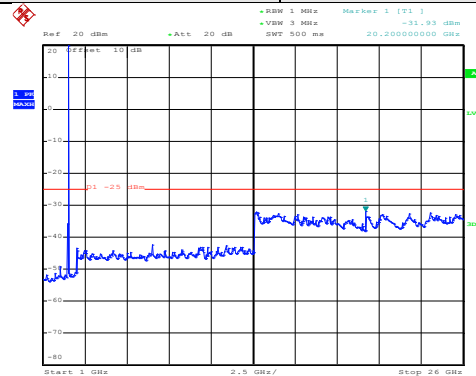
1GHz~26GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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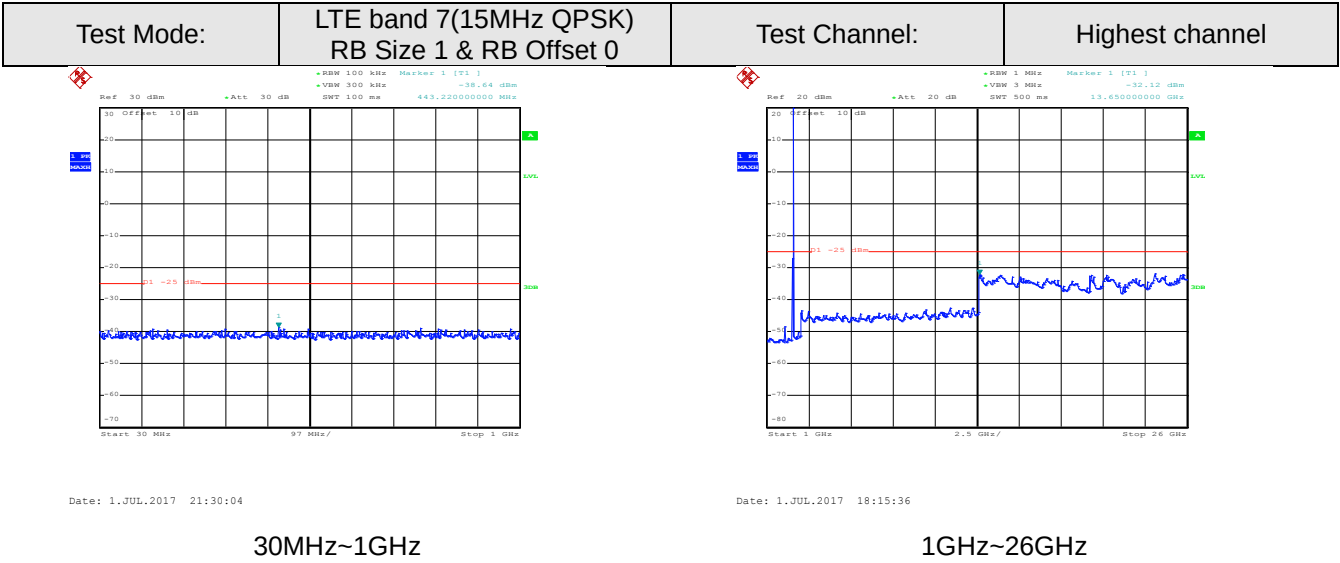
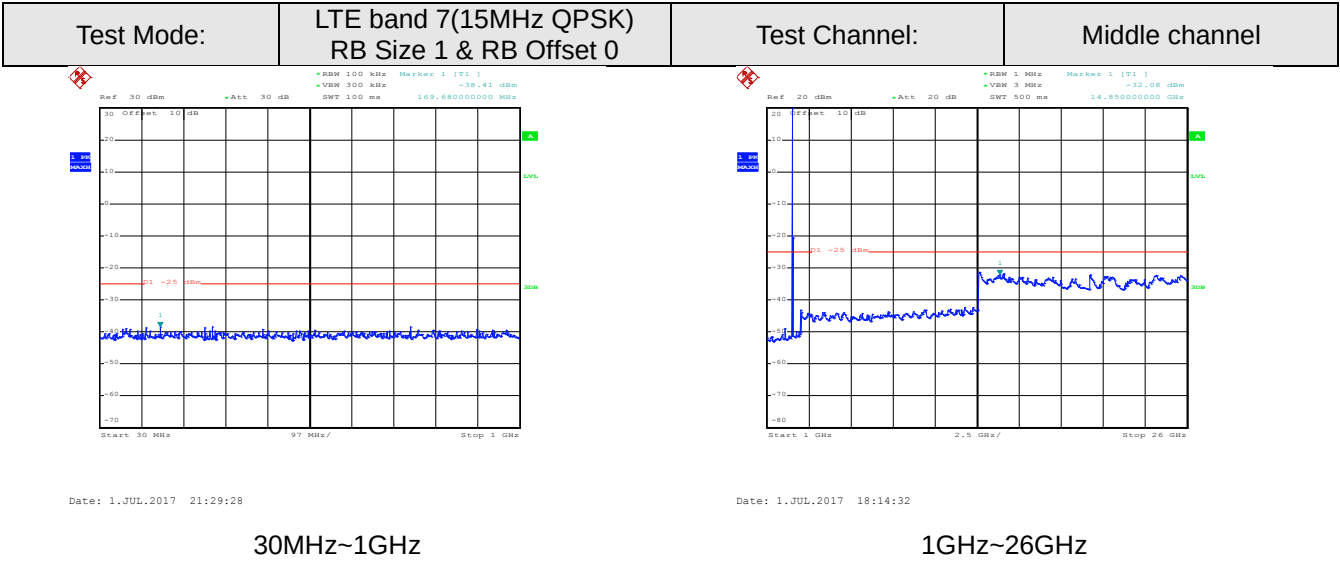
Date: 1.JUL.2017 21:28:52

30MHz~1GHz

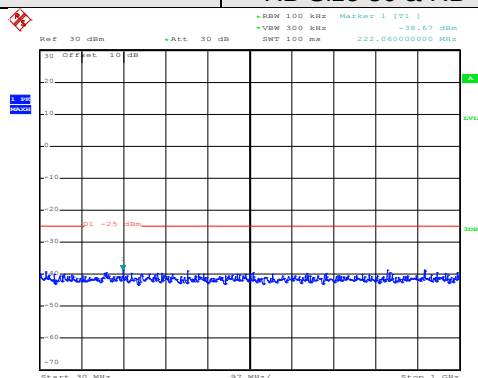


Date: 1.JUL.2017 18:13:25

1GHz~26GHz

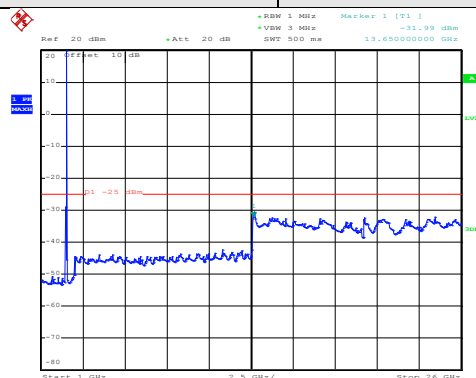


Test Mode:	LTE band 7(15MHz QPSK) RB Size 36 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:29:02

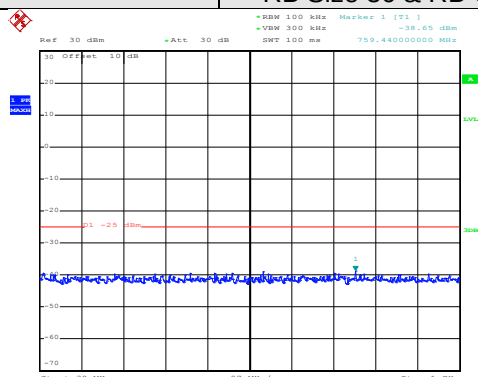
30MHz~1GHz



Date: 1.JUL.2017 18:13:05

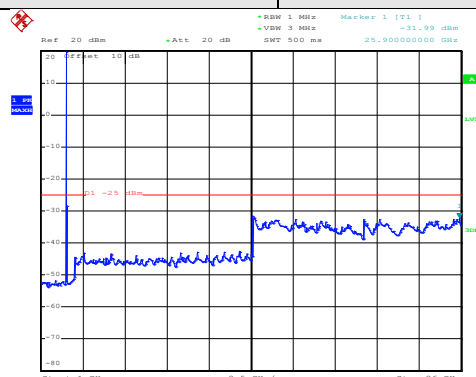
1GHz~26GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 36 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:29:39

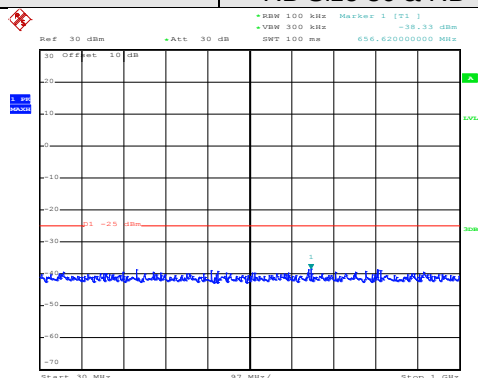
30MHz~1GHz



Date: 1.JUL.2017 18:14:51

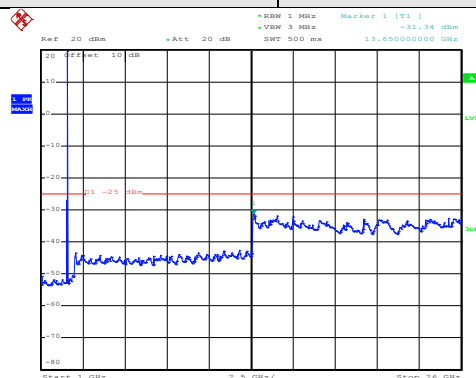
1GHz~26GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 36 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:30:15

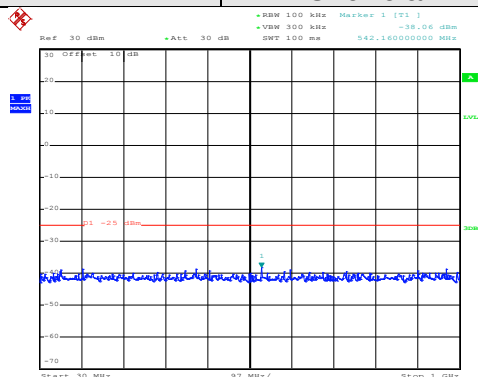
30MHz~1GHz



Date: 1.JUL.2017 18:15:59

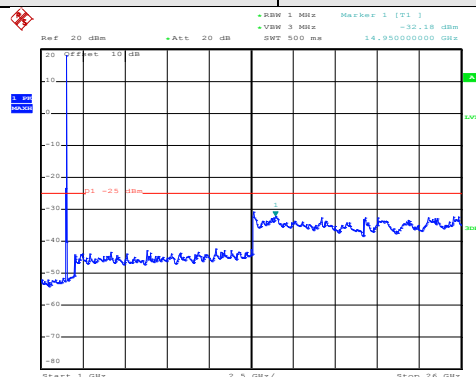
1GHz~26GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 75 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:29:13

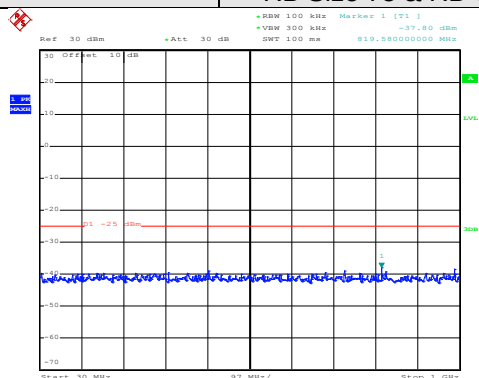
30MHz~1GHz



Date: 1.JUL.2017 18:13:45

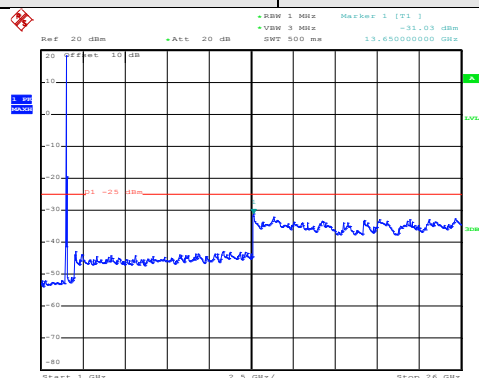
1GHz~26GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 75 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:29:51

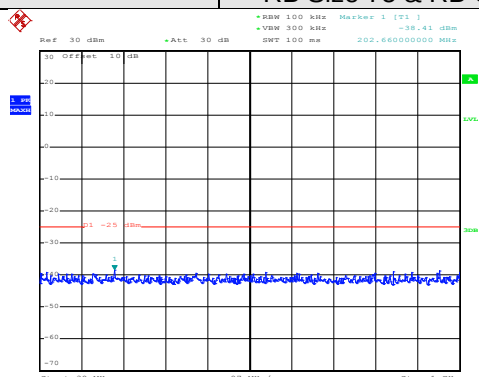
30MHz~1GHz



Date: 1.JUL.2017 18:15:10

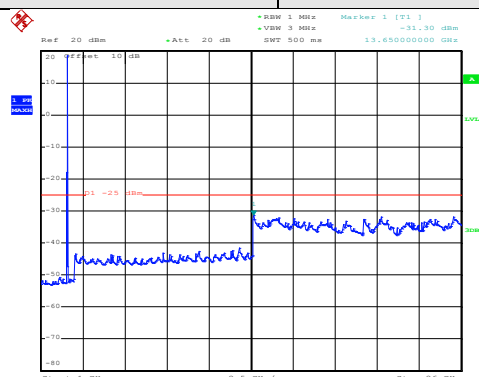
1GHz~26GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 75 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:30:26

30MHz~1GHz

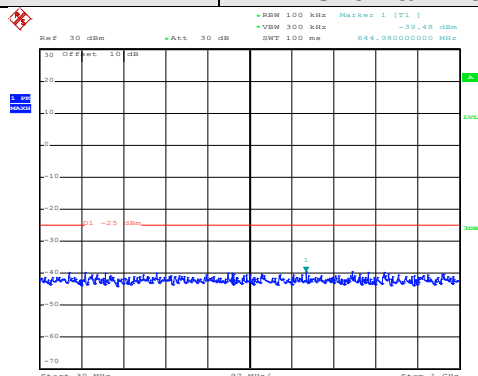


Date: 1.JUL.2017 18:16:25

1GHz~26GHz

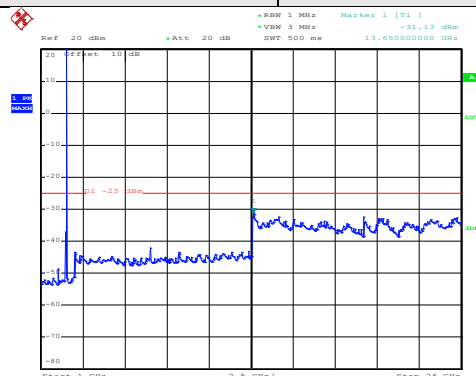
20MHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:30:46

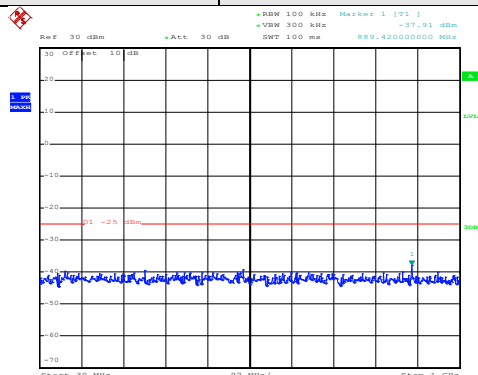
30MHz~1GHz



Date: 1.JUL.2017 18:17:20

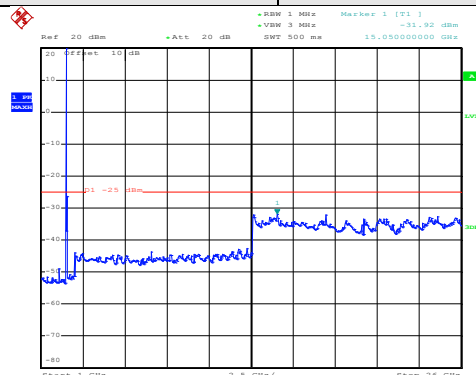
1GHz~26GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:31:26

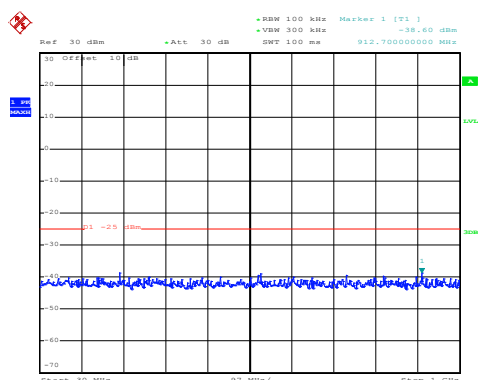
30MHz~1GHz



Date: 1.JUL.2017 18:18:30

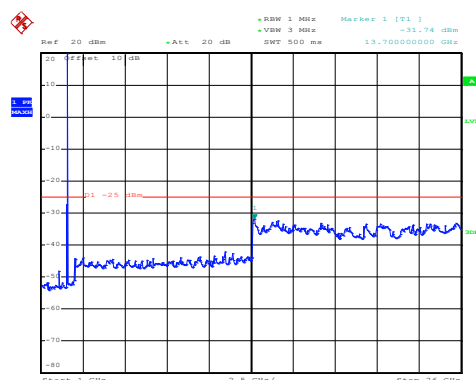
1GHz~26GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:32:10

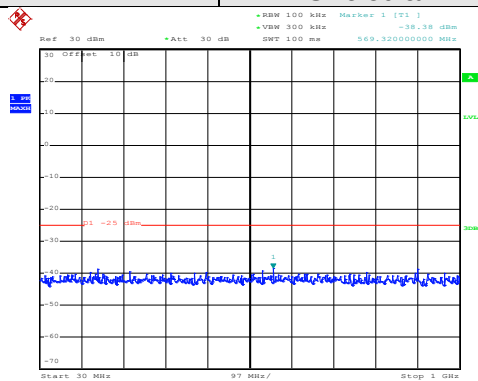
30MHz~1GHz



Date: 1.JUL.2017 18:19:39

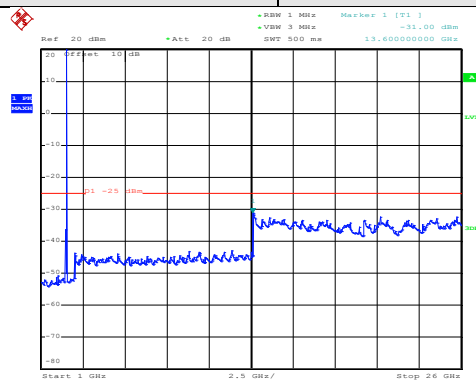
1GHz~26GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:31:01

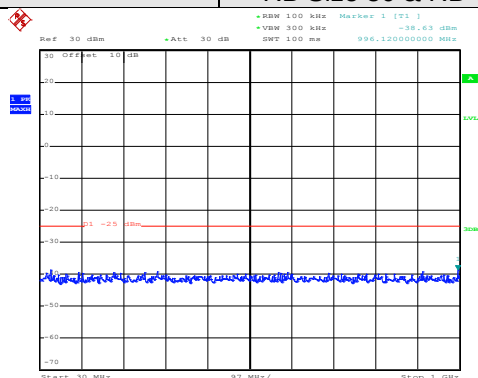
30MHz~1GHz



Date: 1.JUL.2017 18:17:42

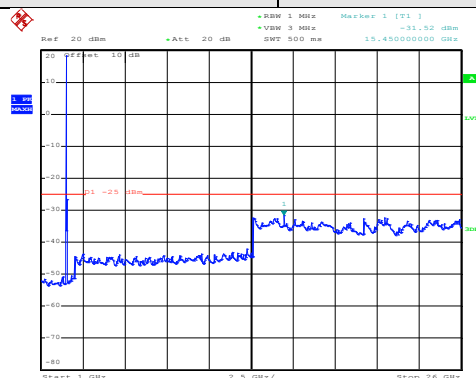
1GHz~26GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:31:40

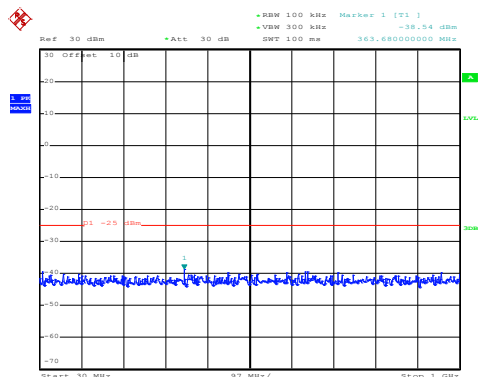
30MHz~1GHz



Date: 1.JUL.2017 18:18:52

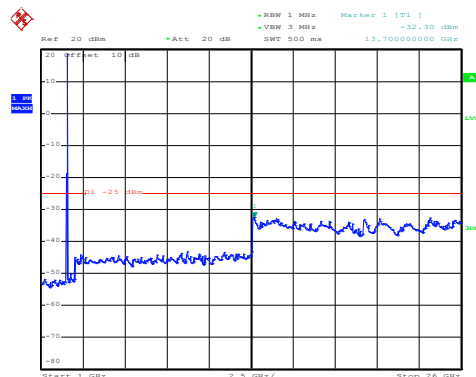
1GHz~26GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:32:23

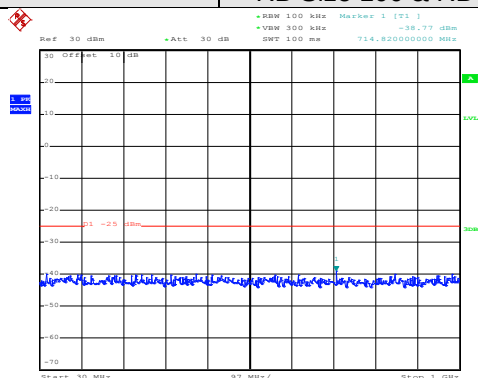
30MHz~1GHz



Date: 1.JUL.2017 18:20:06

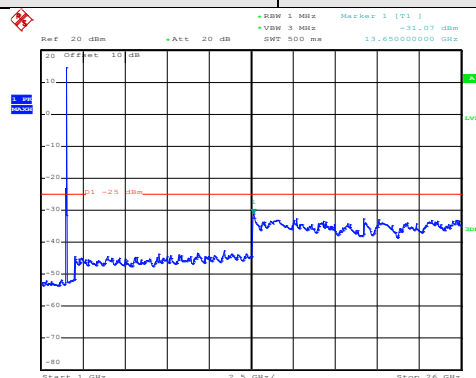
1GHz~26GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 100 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:31:12

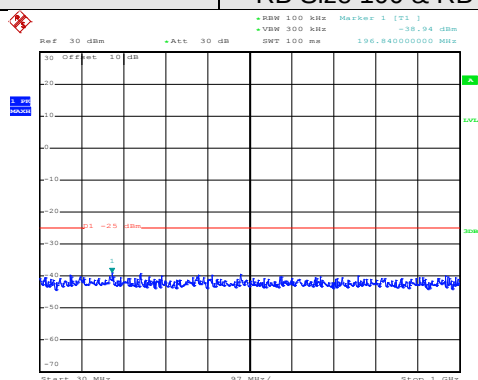
30MHz~1GHz



Date: 1.JUL.2017 18:18:05

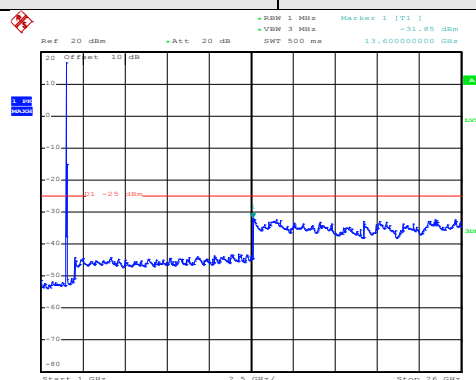
1GHz~26GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 100 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:31:51

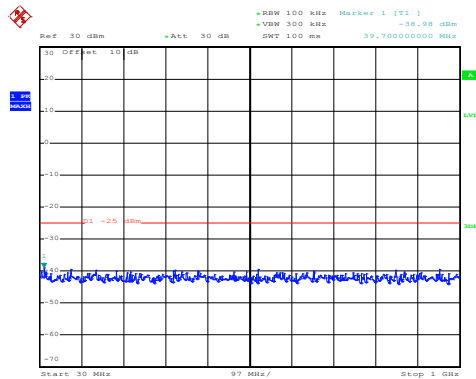
30MHz~1GHz



Date: 1.JUL.2017 18:19:12

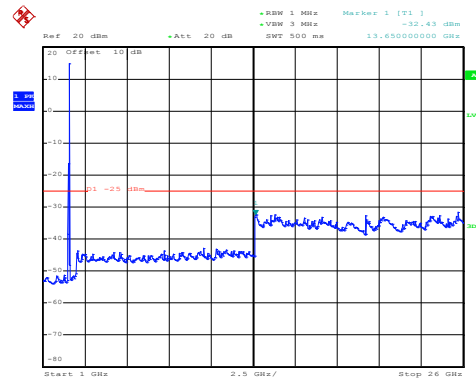
1GHz~26GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 100 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:32:34

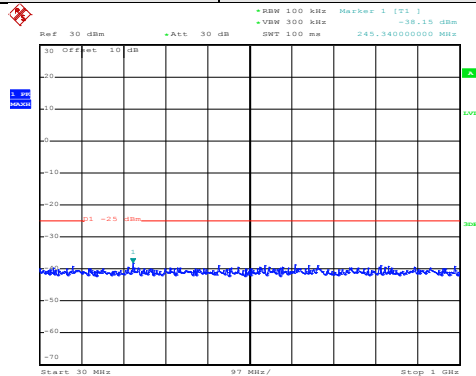
30MHz~1GHz



Date: 1.JUL.2017 18:20:24

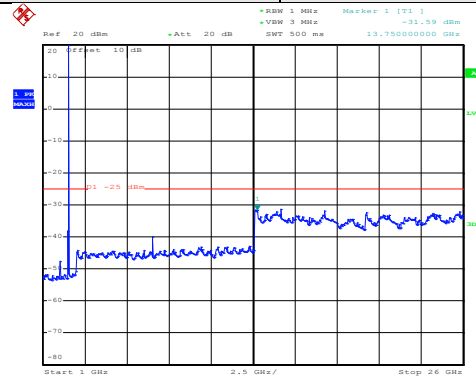
1GHz~26GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:30:42

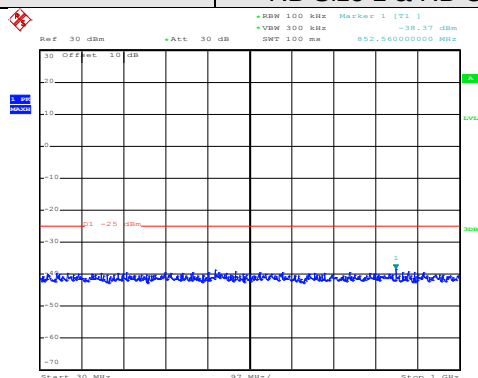
30MHz~1GHz



Date: 1.JUL.2017 18:17:12

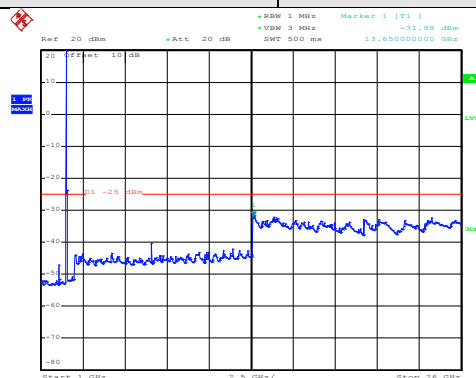
1GHz~26GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:31:21

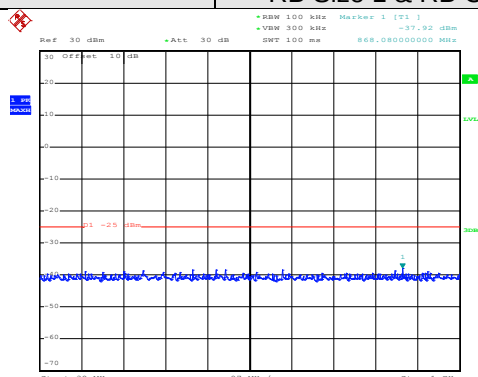
30MHz~1GHz



Date: 1.JUL.2017 18:18:22

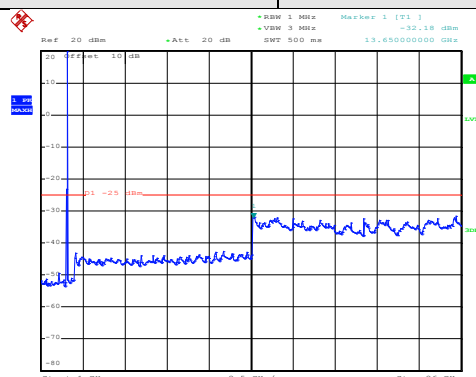
1GHz~26GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:32:06

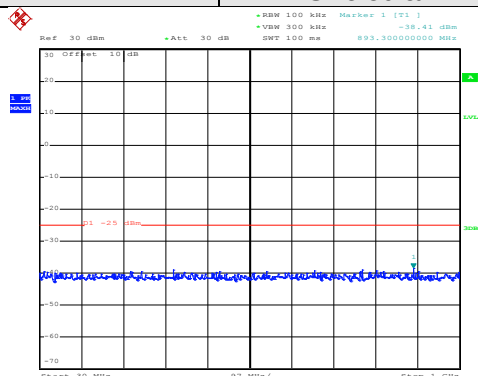
30MHz~1GHz



Date: 1.JUL.2017 18:19:30

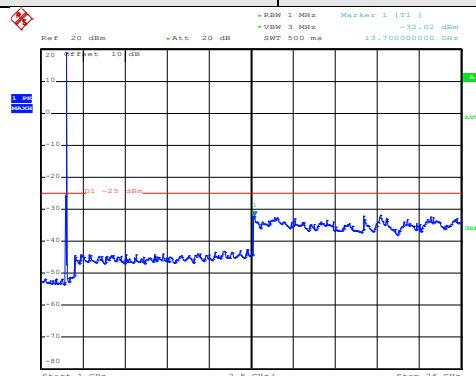
1GHz~26GHz

Test Mode:	LTE band 7 (20MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:30:55

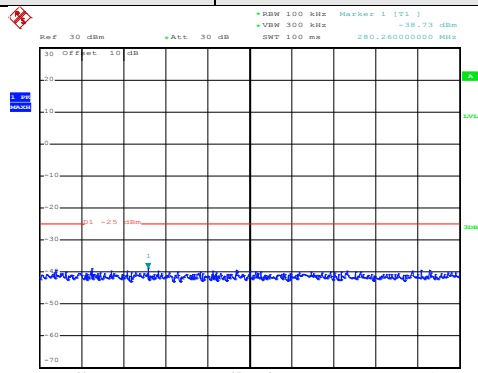
30MHz~1GHz



Date: 1.JUL.2017 18:17:34

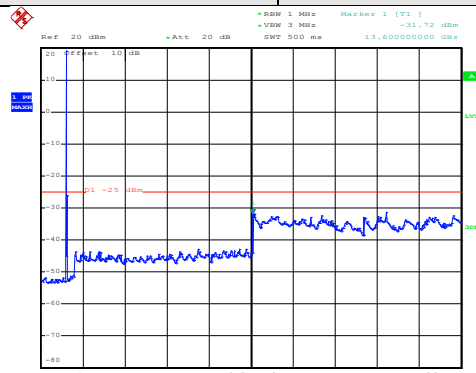
1GHz~26GHz

Test Mode:	LTE band 7 (20MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:31:33

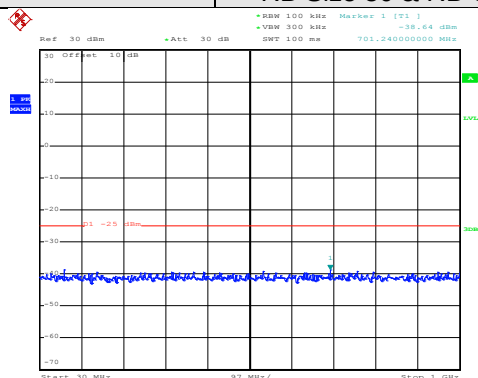
30MHz~1GHz



Date: 1.JUL.2017 18:18:42

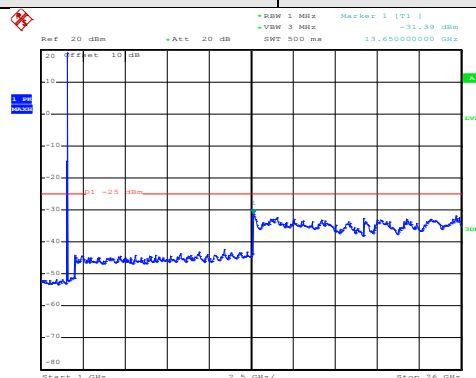
1GHz~26GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:32:19

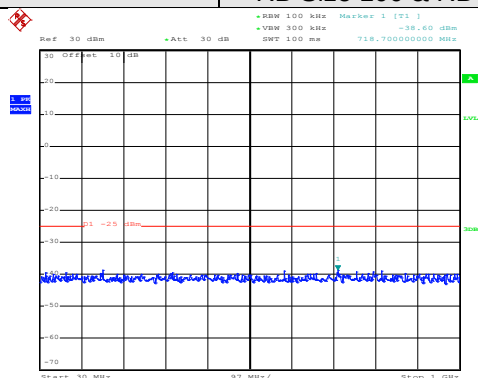
30MHz~1GHz



Date: 1.JUL.2017 18:19:55

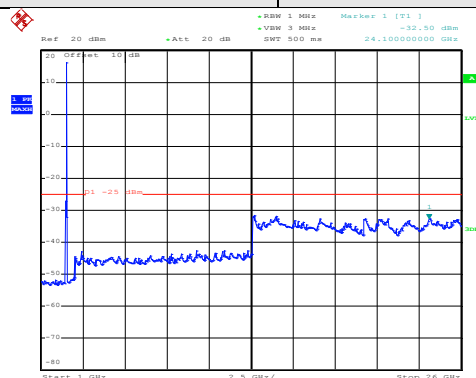
1GHz~26GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 100 & RB Offset 0	Test Channel:	Lowest channel
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Date: 1.JUL.2017 21:31:08

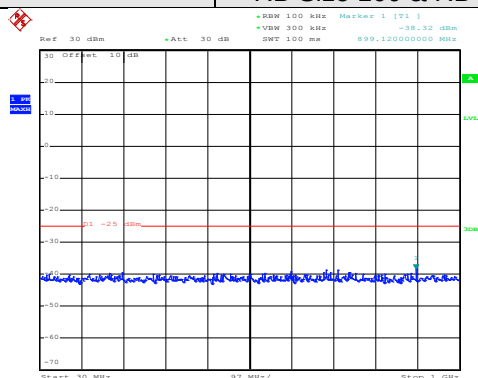
30MHz~1GHz



Date: 1.JUL.2017 18:17:55

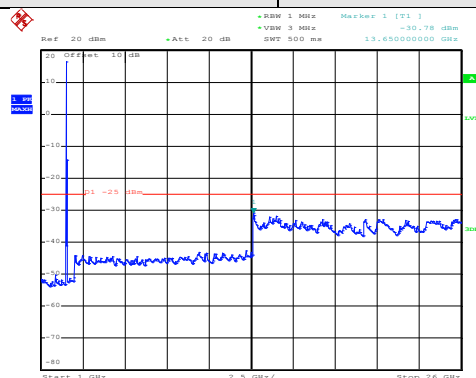
1GHz~26GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 100 & RB Offset 0	Test Channel:	Middle channel
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Date: 1.JUL.2017 21:31:47

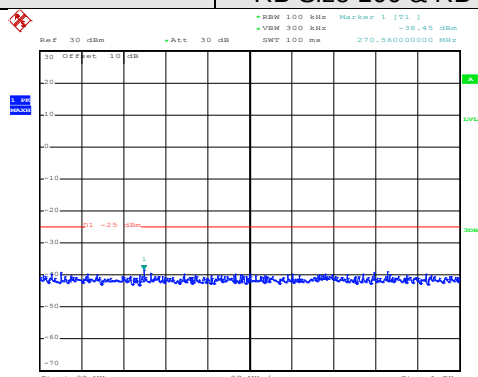
30MHz~1GHz



Date: 1.JUL.2017 18:19:03

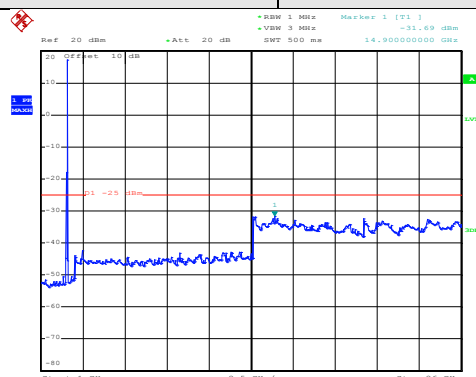
1GHz~26GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 100 & RB Offset 0	Test Channel:	Highest channel
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Date: 1.JUL.2017 21:32:30

30MHz~1GHz



Date: 1.JUL.2017 18:20:16

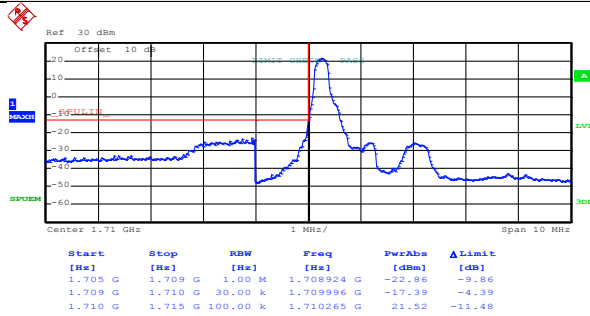
1GHz~26GHz

Band edge emission:

LTE band 4 part:1.4MHz:

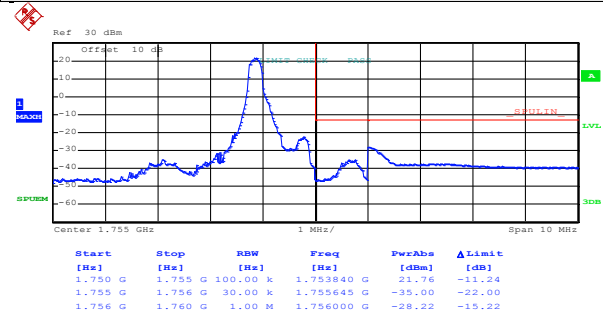
Test Mode:

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



Date: 1.JUL.2017 19:11:49

Lowest channel

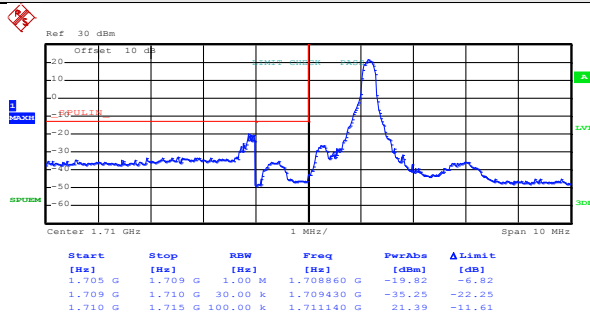


Date: 1.JUL.2017 19:13:35

Highest channel

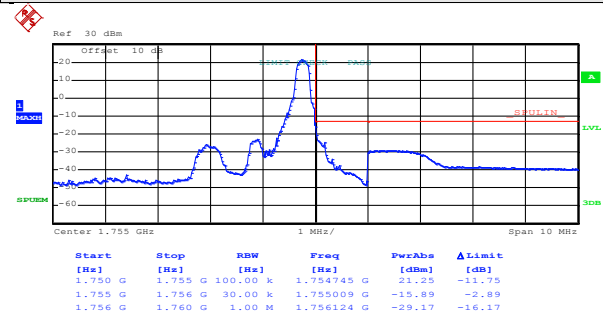
Test Mode:

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



Date: 1.JUL.2017 19:12:13

Lowest channel

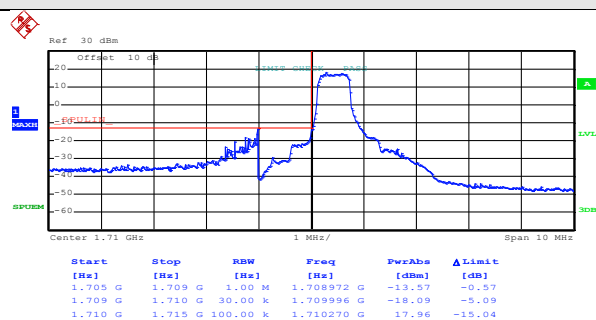


Date: 1.JUL.2017 19:13:49

Highest channel

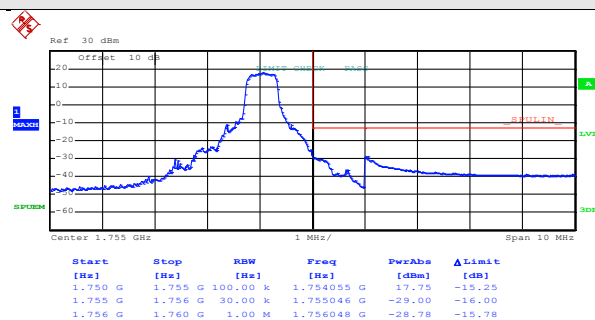
Test Mode:

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



Date: 1.JUL.2017 19:12:31

Lowest channel

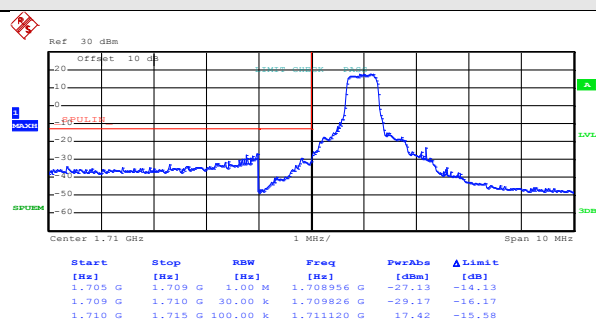


Date: 1.JUL.2017 19:14:53

Highest channel

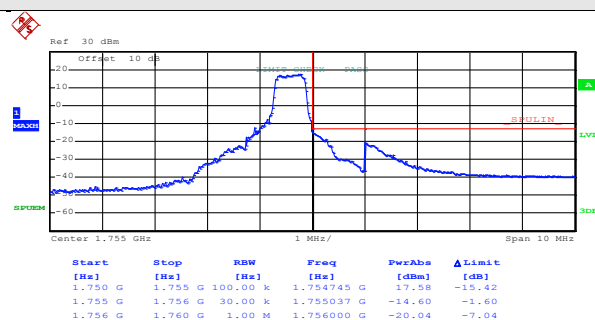
Test Mode:

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



Date: 1.JUL.2017 19:12:49

Lowest channel

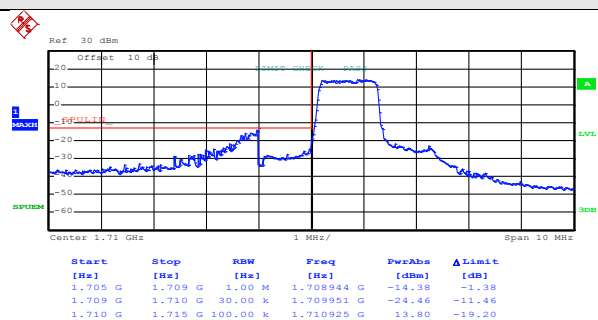


Date: 1.JUL.2017 19:14:35

Highest channel

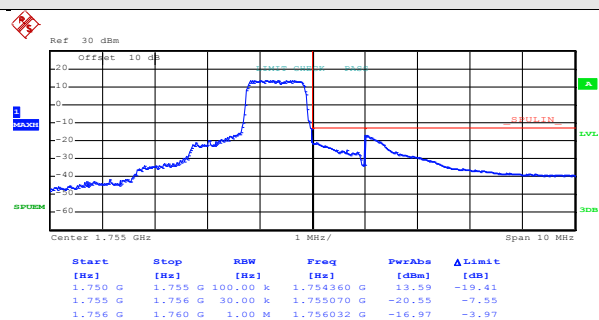
Test Mode:

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



Date: 1.JUL.2017 19:13:12

Lowest channel

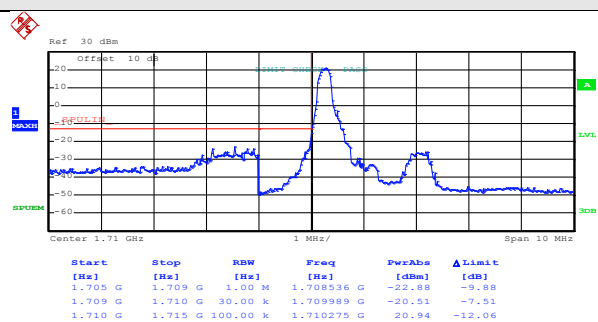


Date: 1.JUL.2017 19:15:03

Highest channel

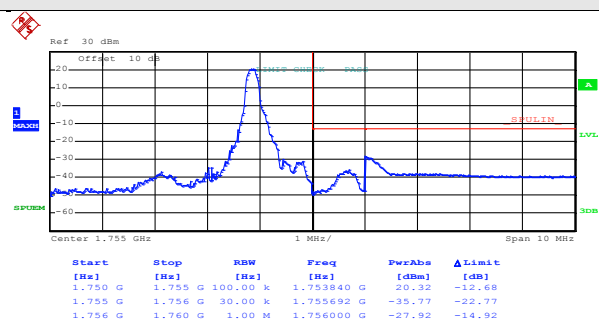
Test Mode:

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



Date: 1.JUL.2017 19:12:02

Lowest channel

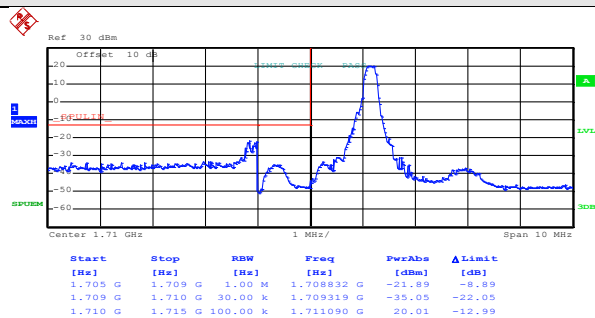


Date: 1.JUL.2017 19:13:41

Highest channel

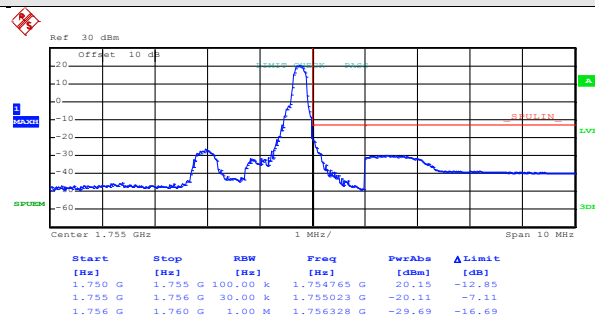
Test Mode:

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



Date: 1.JUL.2017 19:12:19

Lowest channel

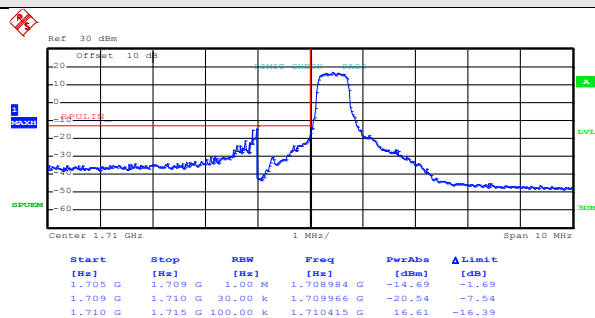


Date: 1.JUL.2017 19:13:59

Highest channel

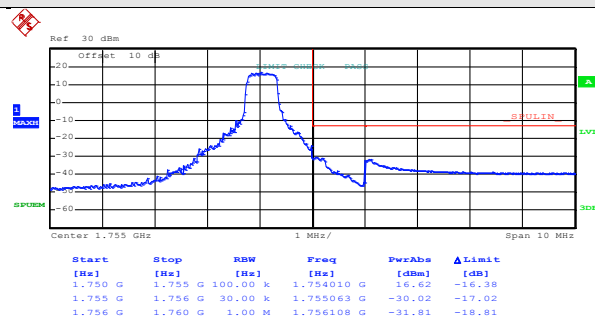
Test Mode:

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



Date: 1.JUL.2017 19:12:39

Lowest channel

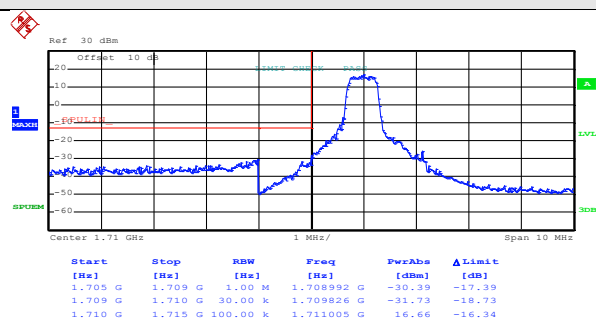


Date: 1.JUL.2017 19:14:17

Highest channel

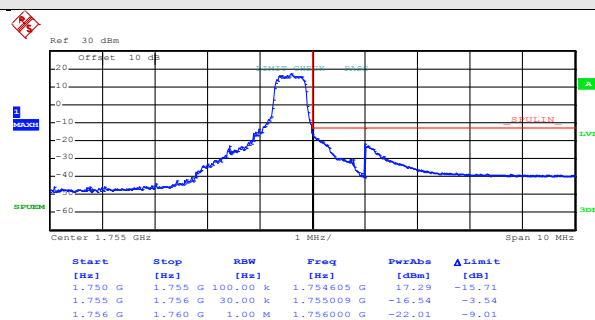
Test Mode:

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



Date: 1.JUL.2017 19:12:56

Lowest channel

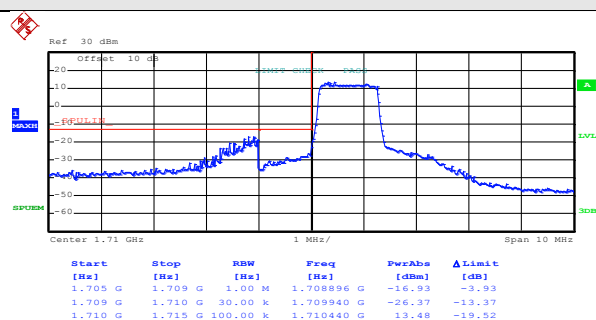


Date: 1.JUL.2017 19:14:42

Highest channel

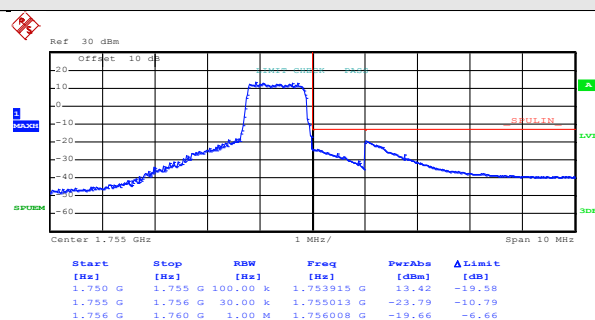
Test Mode:

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



Date: 1.JUL.2017 19:13:18

Lowest channel



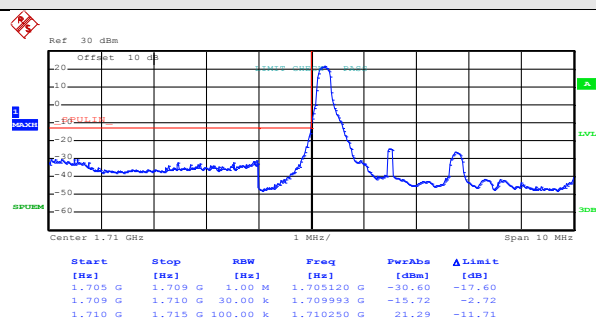
Date: 1.JUL.2017 19:15:09

Highest channel

3MHz:

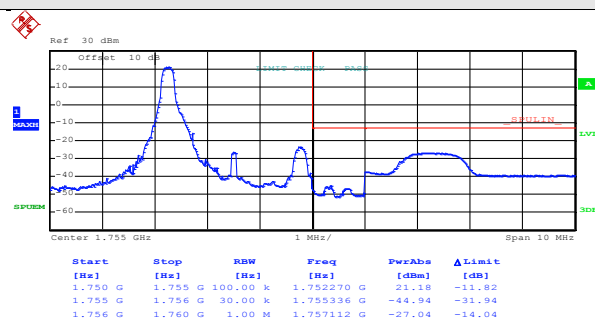
Test Mode:

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



Date: 1.JUL.2017 19:54:45

Lowest channel

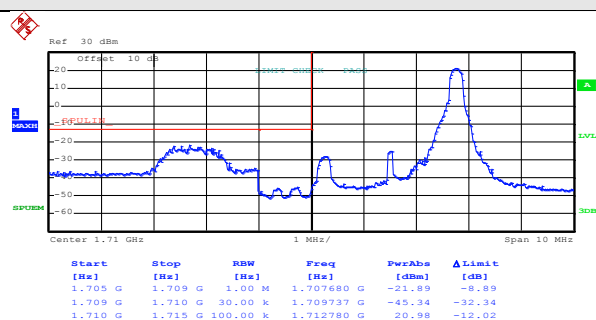


Date: 1.JUL.2017 19:56:50

Highest channel

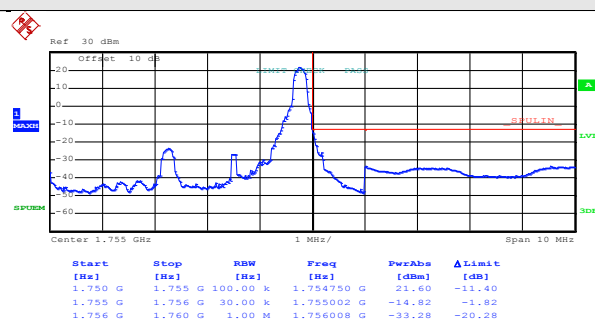
Test Mode:

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



Date: 1.JUL.2017 19:55:04

Lowest channel

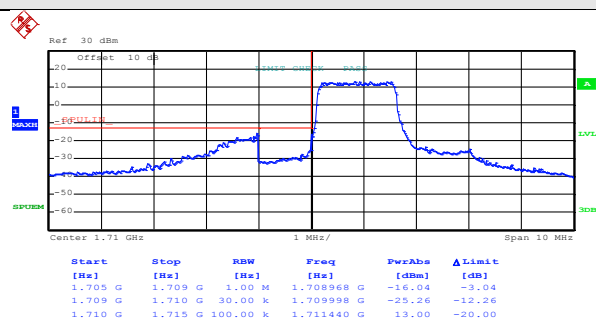


Date: 1.JUL.2017 19:57:07

Highest channel

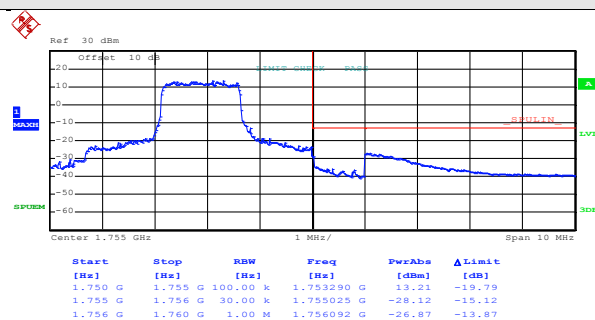
Test Mode:

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



Date: 1.JUL.2017 19:55:30

Lowest channel

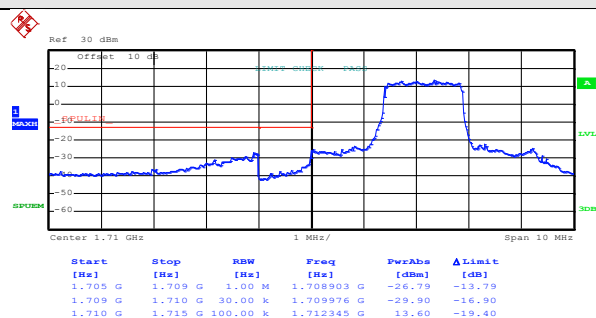


Date: 1.JUL.2017 19:57:24

Highest channel

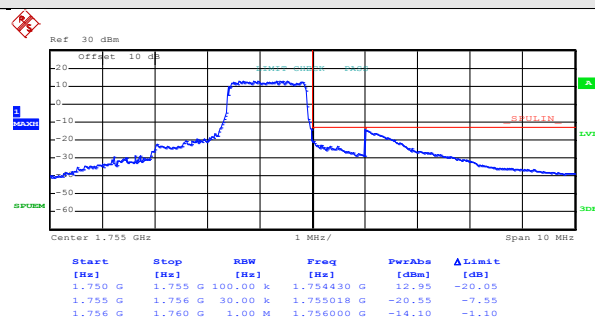
Test Mode:

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



Date: 1.JUL.2017 19:55:45

Lowest channel

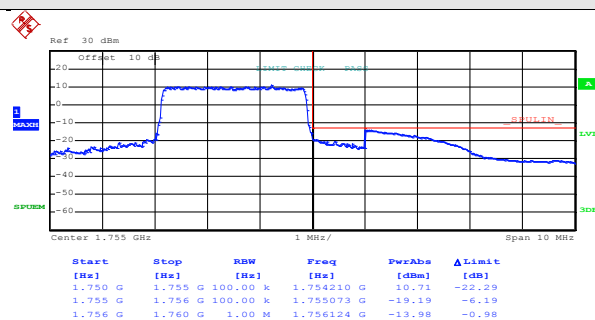
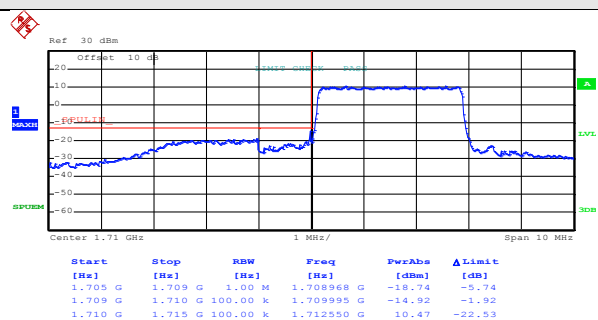


Date: 1.JUL.2017 19:57:45

Highest channel

Test Mode:

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



Date: 1.JUL.2017 19:56:22

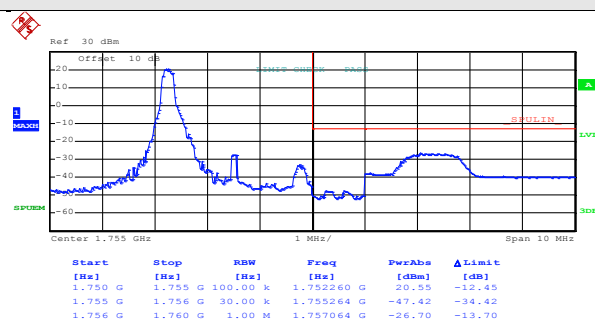
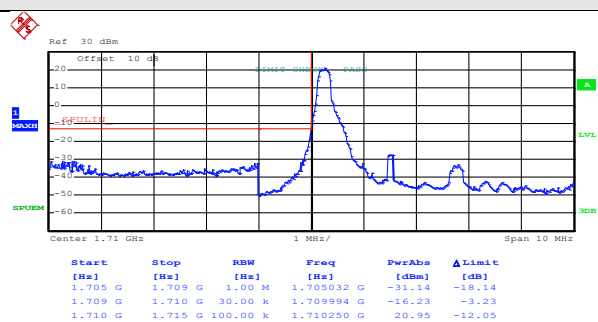
Date: 1.JUL.2017 19:58:39

Lowest channel

Highest channel

Test Mode:

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



Date: 1.JUL.2017 19:54:55

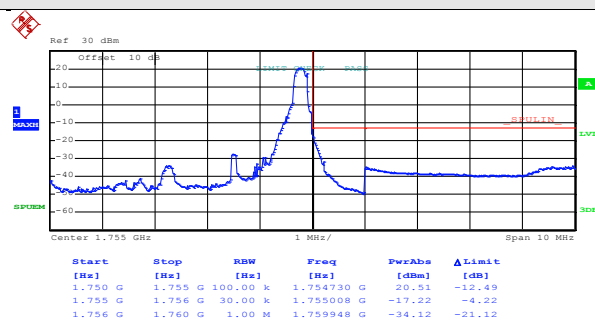
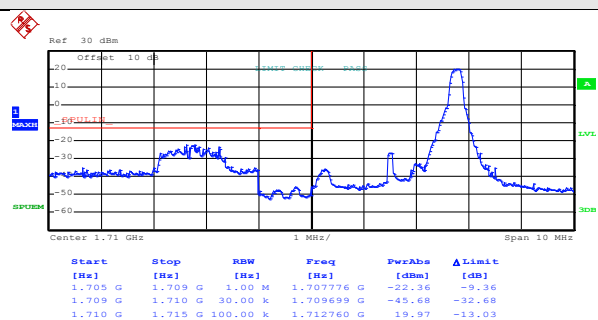
Date: 1.JUL.2017 19:56:57

Lowest channel

Highest channel

Test Mode:

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



Date: 1.JUL.2017 19:55:11

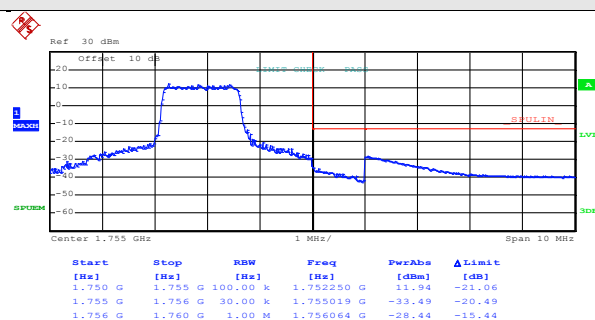
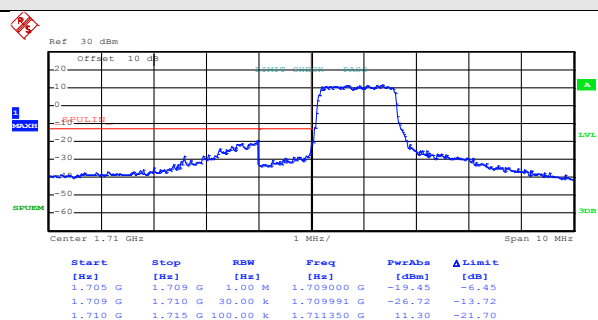
Date: 1.JUL.2017 19:57:15

Lowest channel

Highest channel

Test Mode:

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



Date: 1.JUL.2017 19:55:36

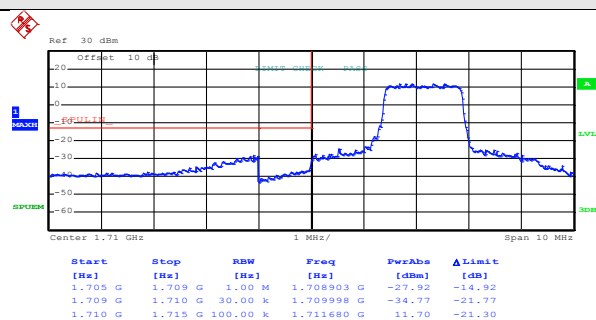
Date: 1.JUL.2017 19:57:32

Lowest channel

Highest channel

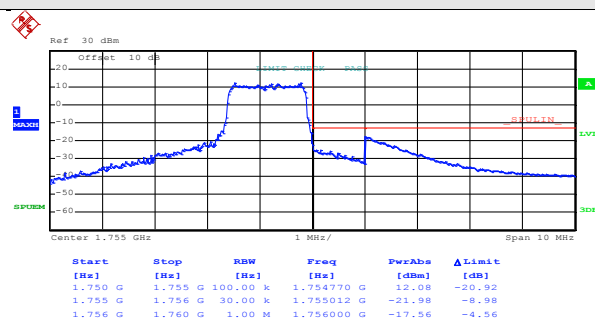
Test Mode:

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



Date: 1.JUL.2017 19:55:52

Lowest channel

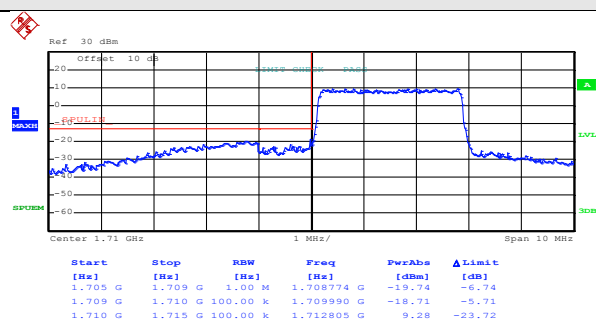


Date: 1.JUL.2017 19:57:58

Highest channel

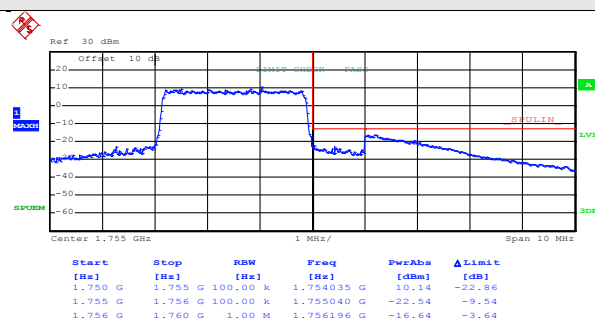
Test Mode:

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



Date: 1.JUL.2017 19:56:28

Lowest channel

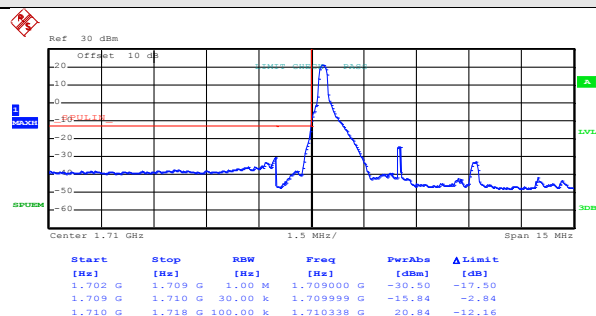


Date: 1.JUL.2017 19:58:46

Highest channel

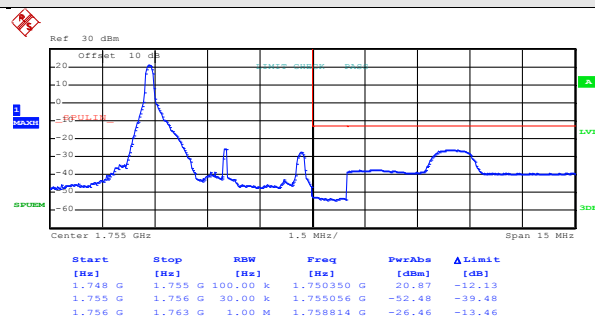
5MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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Date: 1.JUL.2017 20:00:20

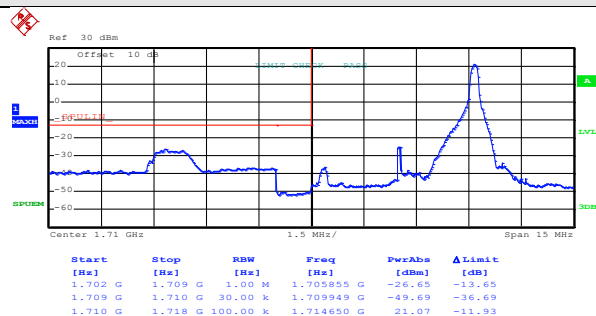
Lowest channel



Date: 1.JUL.2017 20:02:26

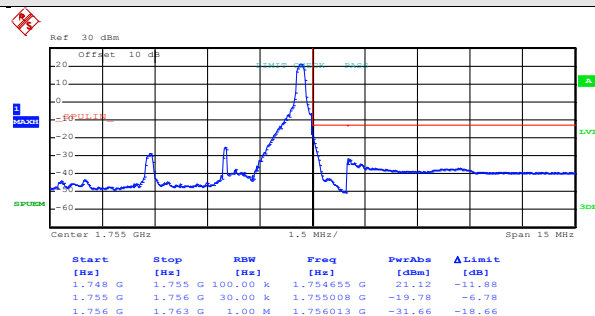
Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 24)
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Date: 1.JUL.2017 20:00:54

Lowest channel

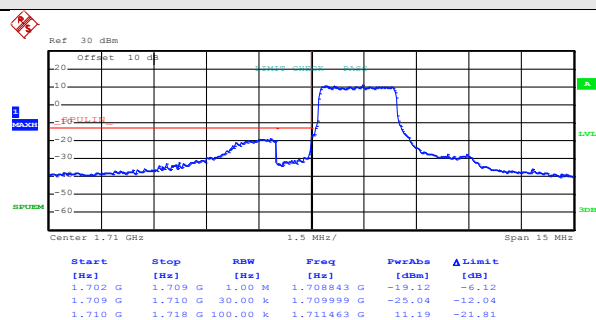


Date: 1.JUL.2017 20:02:44

Highest channel

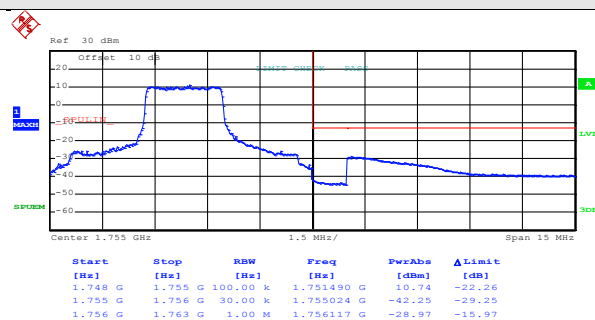
Test Mode:

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



Date: 1.JUL.2017 20:01:15

Lowest channel

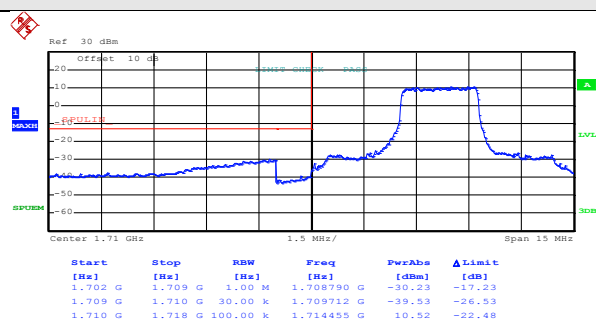


Date: 1.JUL.2017 20:03:01

Highest channel

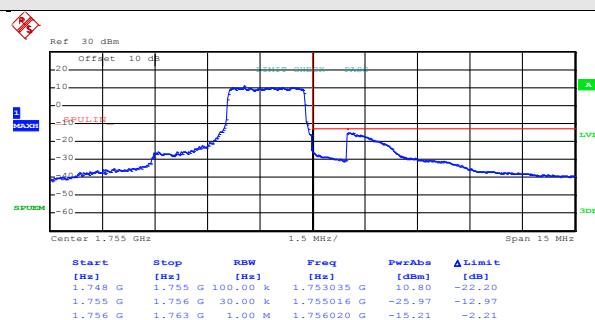
Test Mode:

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



Date: 1.JUL.2017 20:01:30

Lowest channel

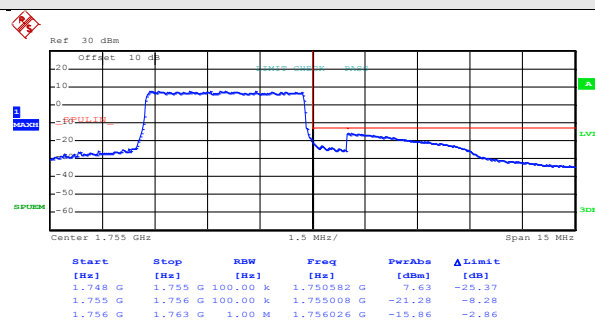
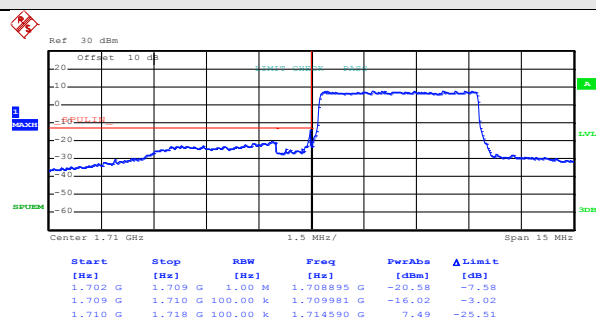


Date: 1.JUL.2017 20:03:16

Highest channel

Test Mode:

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



Date: 1.JUL.2017 20:01:56

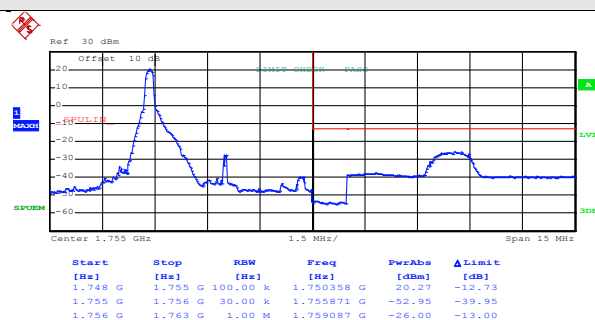
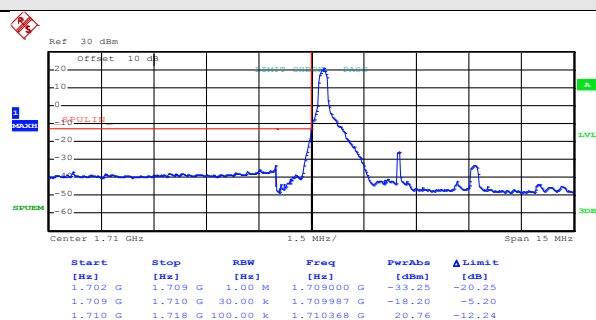
Date: 1.JUL.2017 20:03:42

Lowest channel

Highest channel

Test Mode:

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



Date: 1.JUL.2017 20:00:43

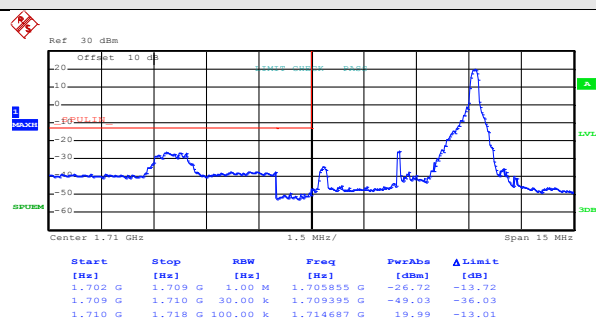
Date: 1.JUL.2017 20:02:35

Lowest channel

Highest channel

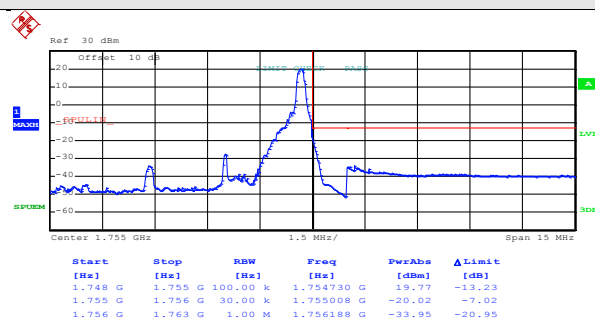
Test Mode:

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



Date: 1.JUL.2017 20:01:01

Lowest channel

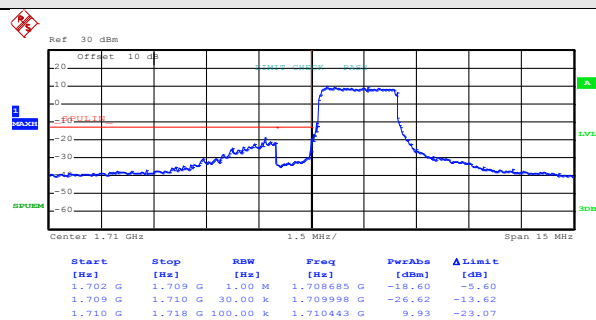


Date: 1.JUL.2017 20:02:52

Highest channel

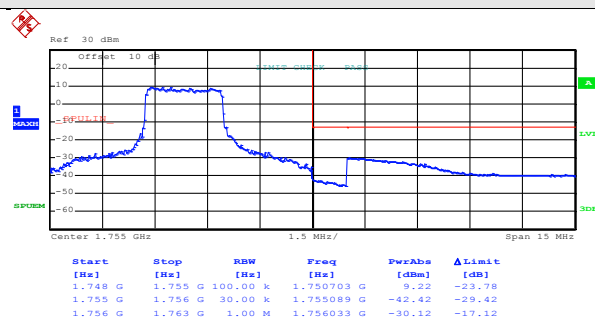
Test Mode:

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



Date: 1.JUL.2017 20:01:21

Lowest channel

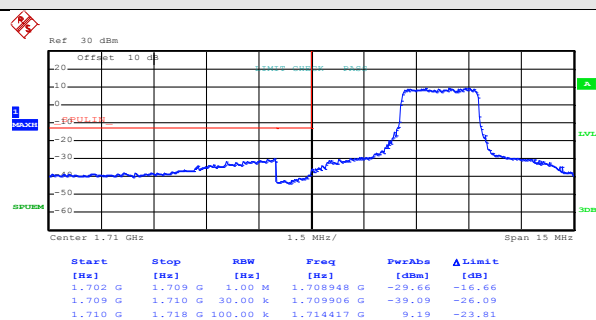


Date: 1.JUL.2017 20:03:08

Highest channel

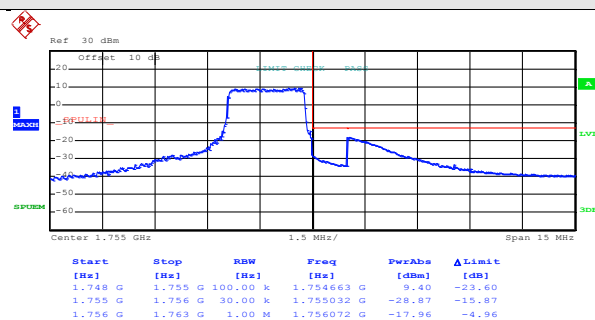
Test Mode:

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



Date: 1.JUL.2017 20:01:38

Lowest channel

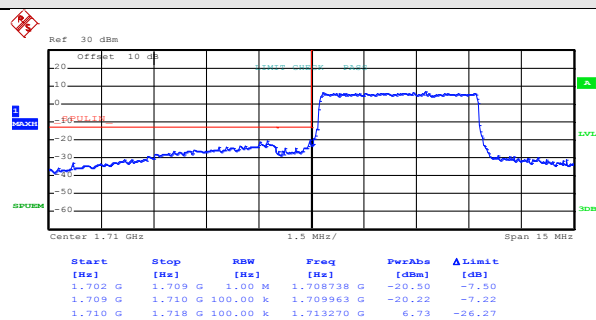


Date: 1.JUL.2017 20:03:24

Highest channel

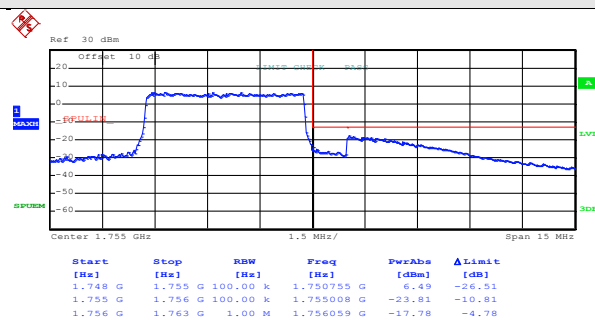
Test Mode:

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



Date: 1.JUL.2017 20:02:02

Lowest channel



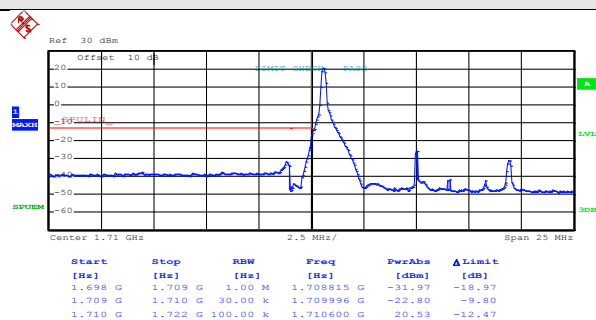
Date: 1.JUL.2017 20:03:48

Highest channel

10MHz:

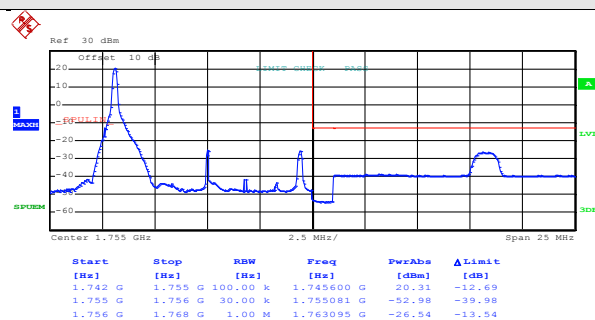
Test Mode:

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



Date: 1.JUL.2017 20:04:31

Lowest channel

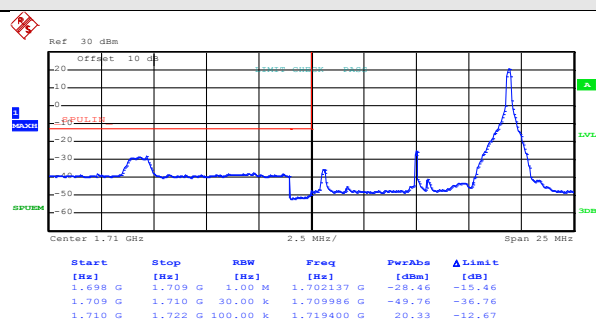


Date: 1.JUL.2017 20:06:16

Highest channel

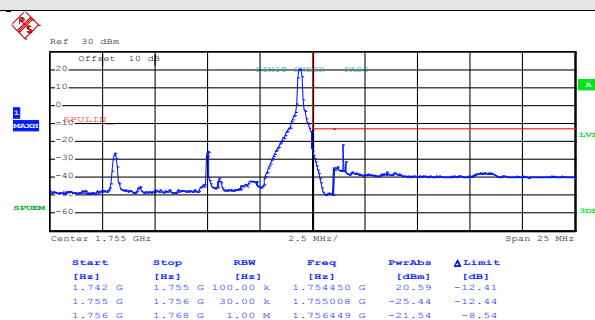
Test Mode:

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



Date: 1.JUL.2017 20:04:47

Lowest channel

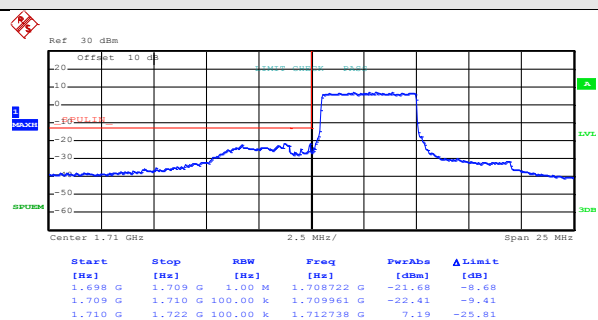


Date: 1.JUL.2017 20:06:34

Highest channel

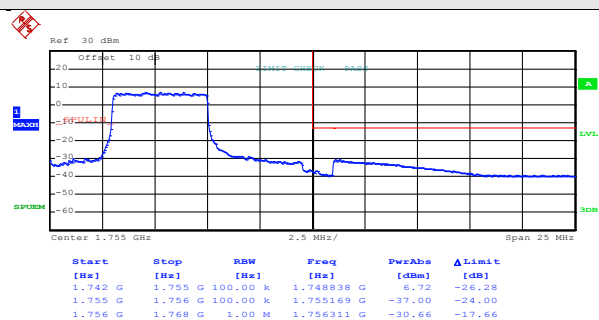
Test Mode:

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



Date: 1.JUL.2017 20:05:13

Lowest channel

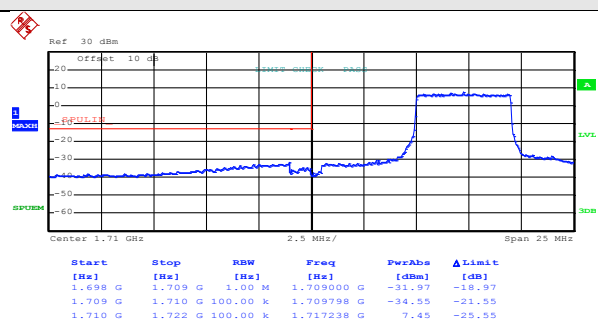


Date: 1.JUL.2017 20:07:03

Highest channel

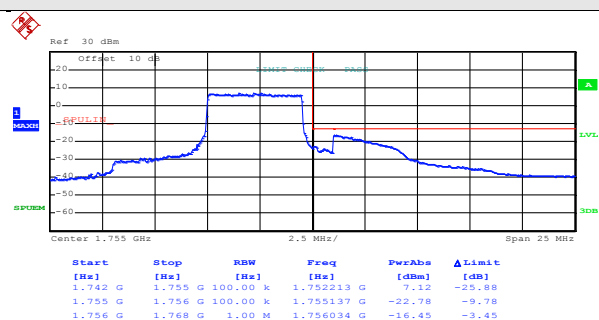
Test Mode:

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



Date: 1.JUL.2017 20:05:28

Lowest channel

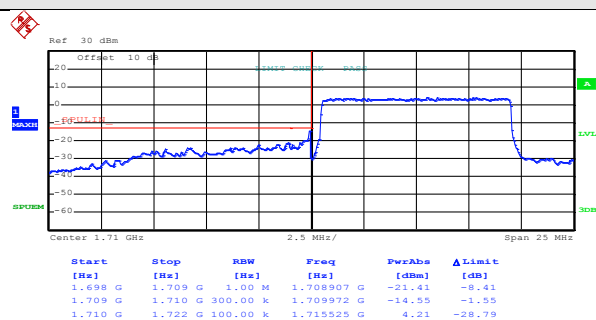


Date: 1.JUL.2017 20:07:18

Highest channel

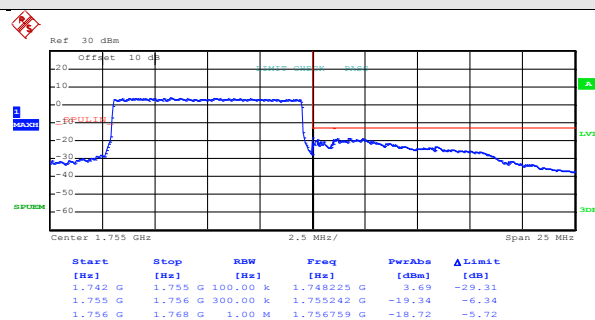
Test Mode:

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



Date: 1.JUL.2017 20:05:49

Lowest channel

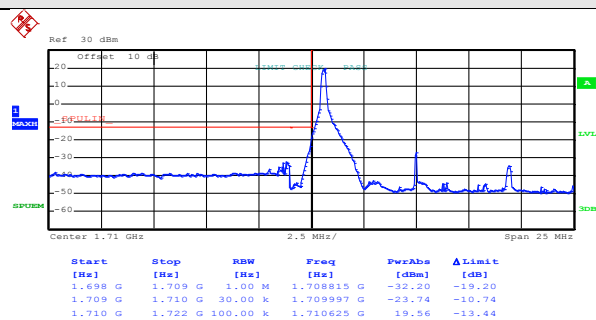


Date: 1.JUL.2017 20:07:38

Highest channel

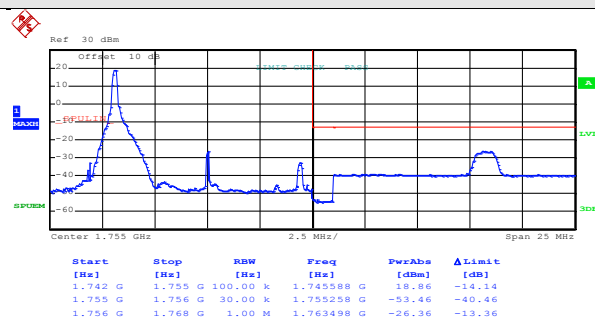
Test Mode:

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



Date: 1.JUL.2017 20:04:38

Lowest channel

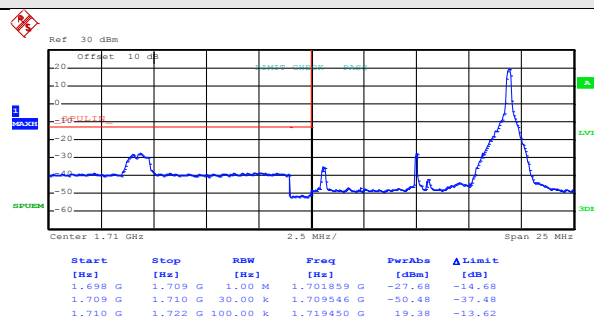


Date: 1.JUL.2017 20:06:22

Highest channel

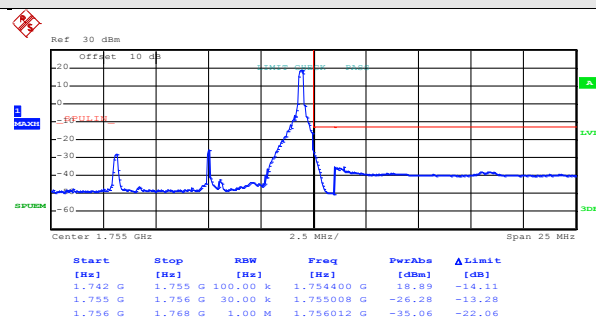
Test Mode:

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



Date: 1.JUL.2017 20:04:55

Lowest channel

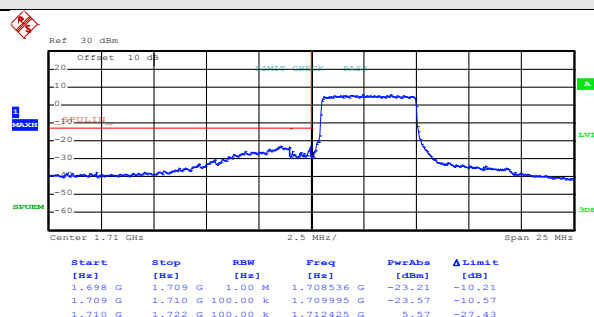


Date: 1.JUL.2017 20:06:44

Highest channel

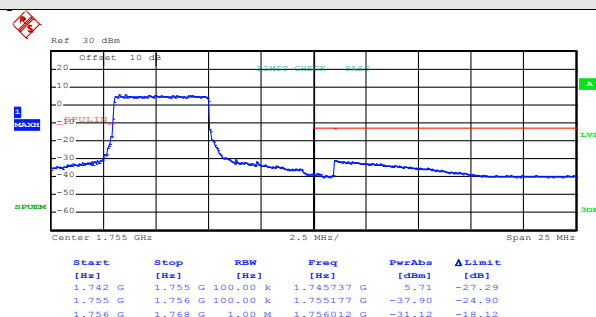
Test Mode:

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



Date: 1.JUL.2017 20:05:19

Lowest channel

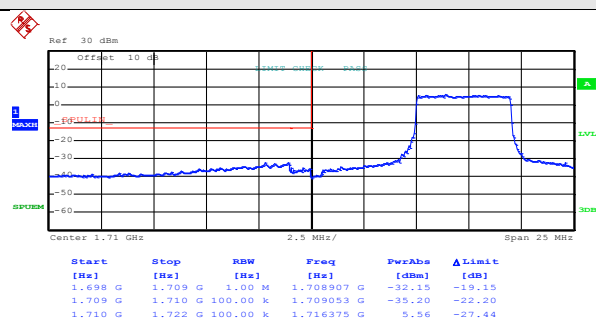


Date: 1.JUL.2017 20:07:09

Highest channel

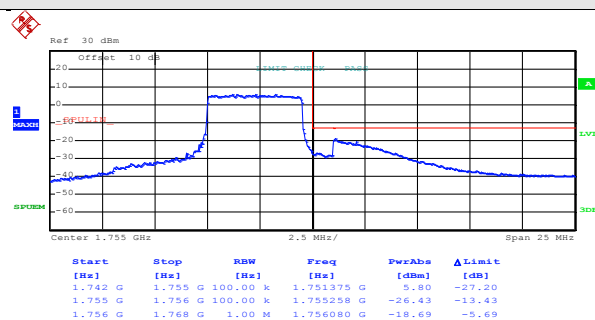
Test Mode:

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



Date: 1.JUL.2017 20:05:35

Lowest channel

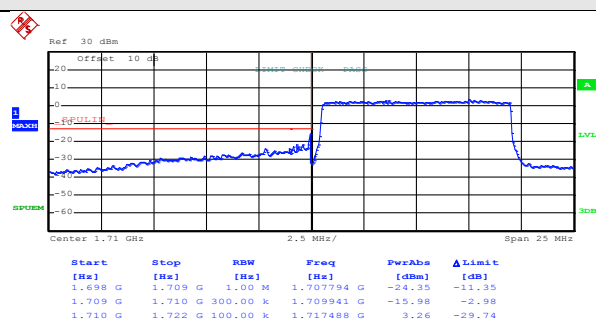


Date: 1.JUL.2017 20:07:25

Highest channel

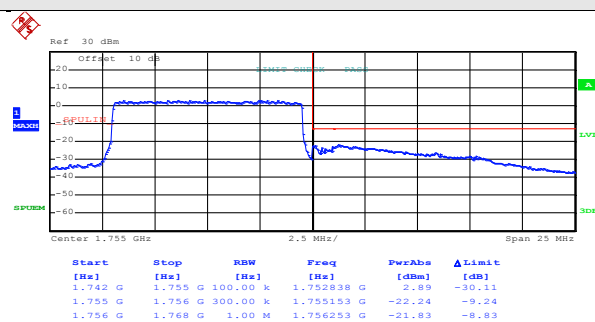
Test Mode:

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



Date: 1.JUL.2017 20:05:54

Lowest channel

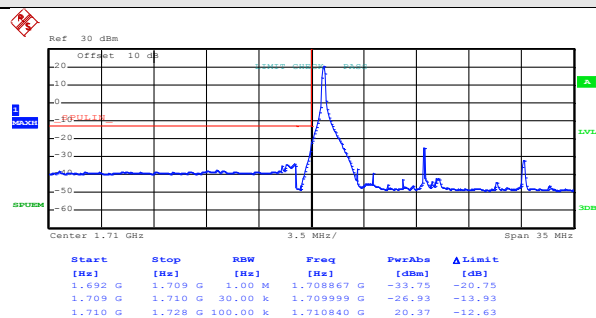


Date: 1.JUL.2017 20:07:44

Highest channel

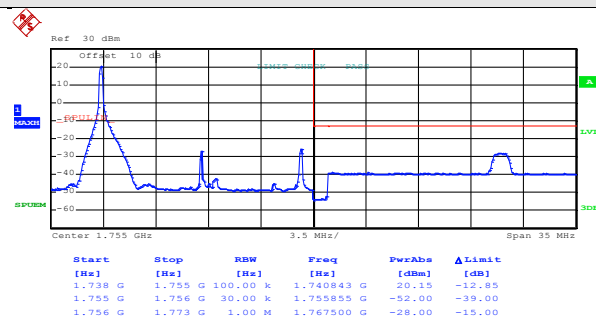
15MHz:

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 0)
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Date: 1.JUL.2017 20:08:24

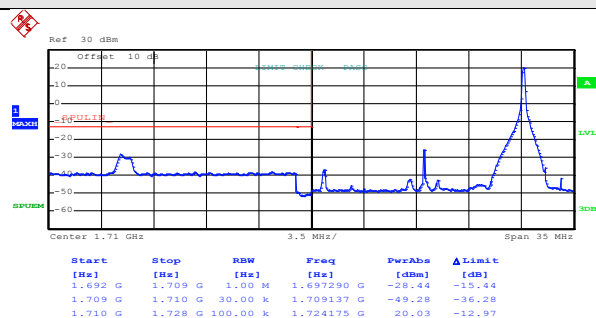
Lowest channel



Date: 1.JUL.2017 20:10:24

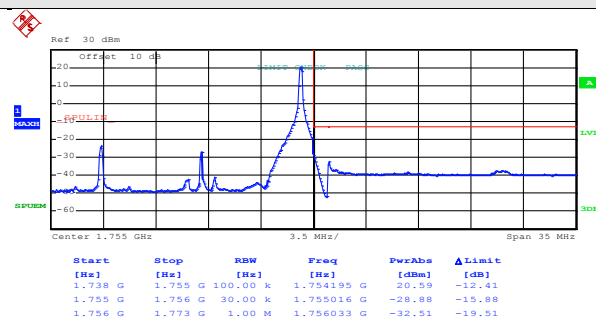
Highest channel

Test Mode:	LTE band 4(QPSK RB Size 1 & RB Offset 74)
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Date: 1.JUL.2017 20:08:45

Lowest channel

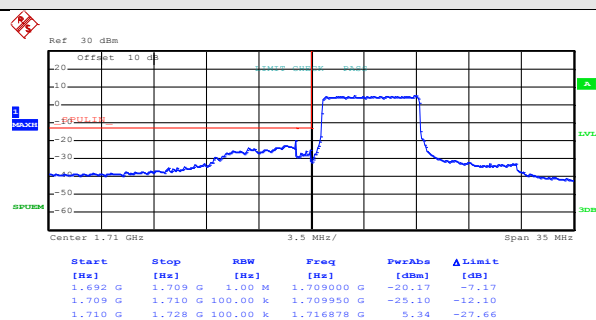


Date: 1.JUL.2017 20:10:41

Highest channel

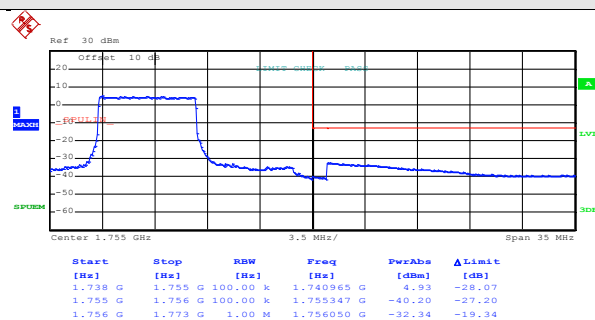
Test Mode:

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



Date: 1.JUL.2017 20:09:11

Lowest channel

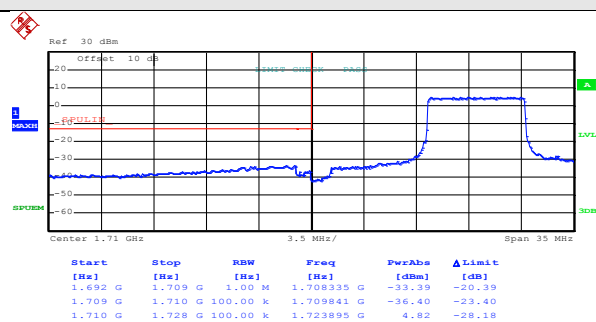


Date: 1.JUL.2017 20:11:01

Highest channel

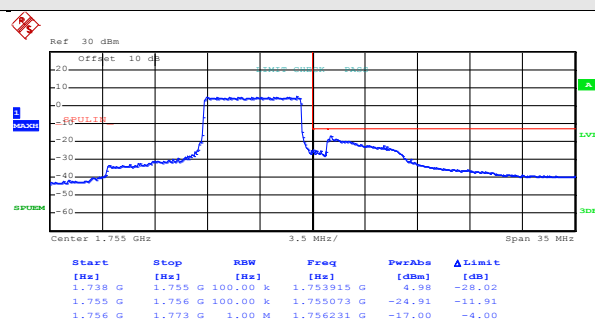
Test Mode:

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



Date: 1.JUL.2017 20:09:32

Lowest channel

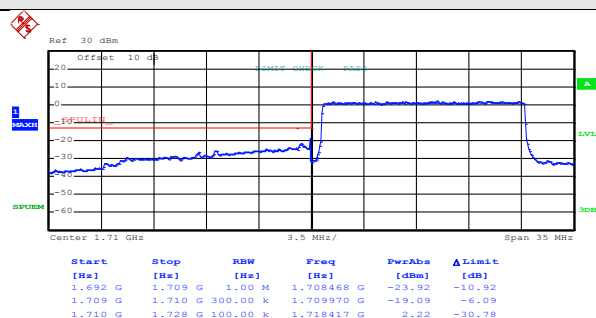


Date: 1.JUL.2017 20:11:16

Highest channel

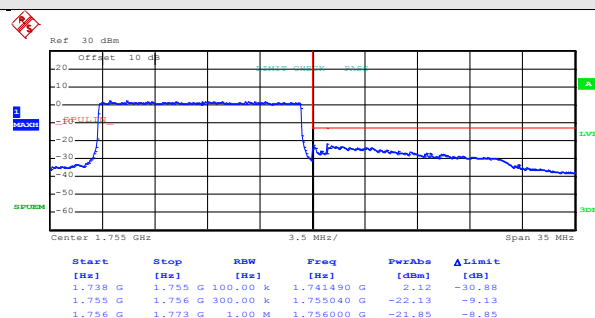
Test Mode:

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



Date: 1.JUL.2017 20:09:53

Lowest channel

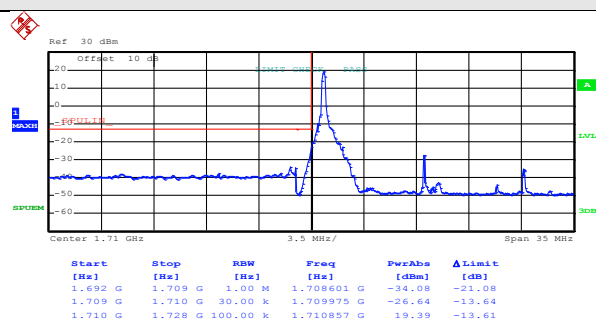


Date: 1.JUL.2017 20:11:37

Highest channel

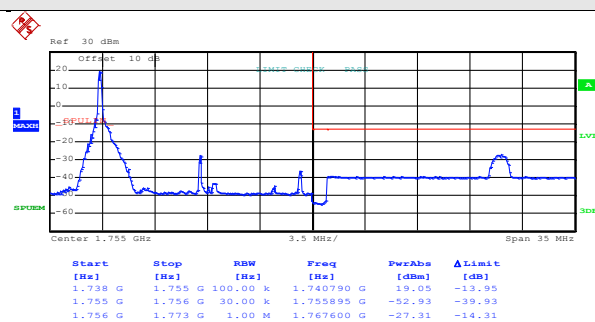
Test Mode:

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



Date: 1.JUL.2017 20:08:35

Lowest channel

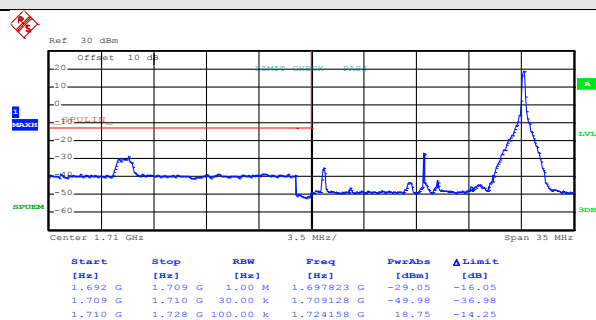


Date: 1.JUL.2017 20:10:30

Highest channel

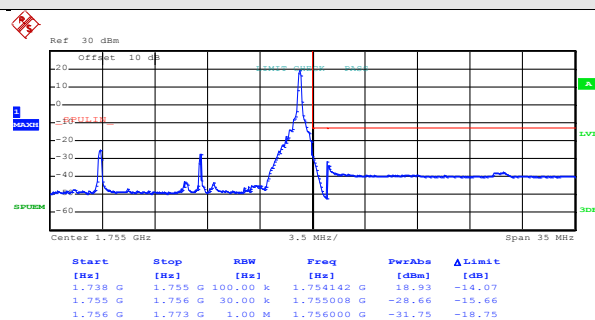
Test Mode:

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



Date: 1.JUL.2017 20:08:58

Lowest channel

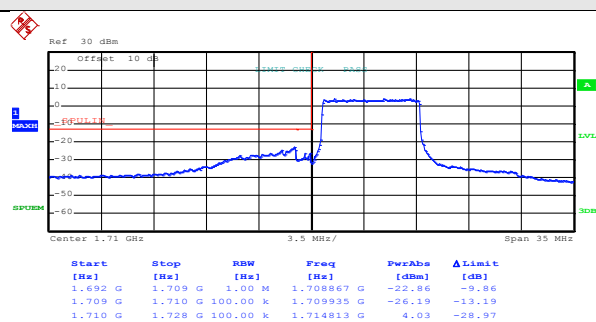


Date: 1.JUL.2017 20:10:47

Highest channel

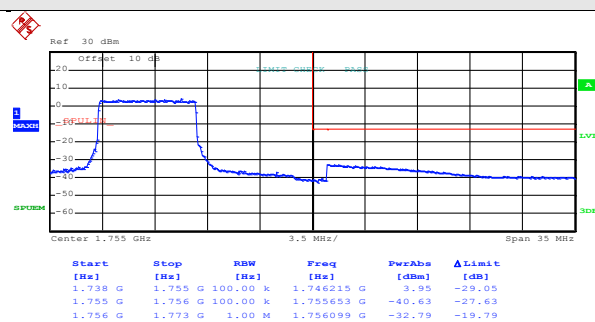
Test Mode:

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



Date: 1.JUL.2017 20:09:19

Lowest channel

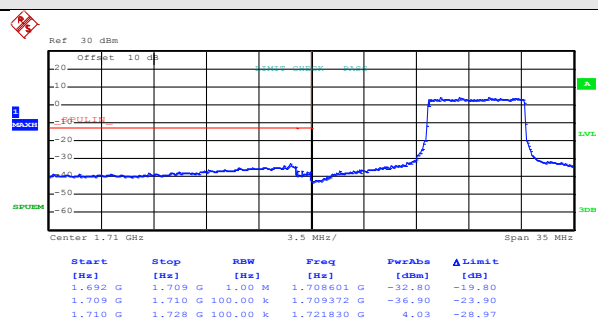


Date: 1.JUL.2017 20:11:07

Highest channel

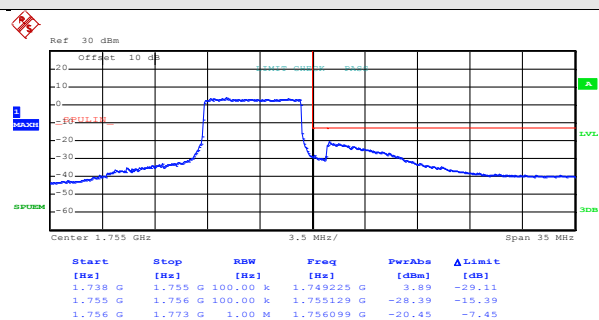
Test Mode:

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



Date: 1.JUL.2017 20:09:39

Lowest channel

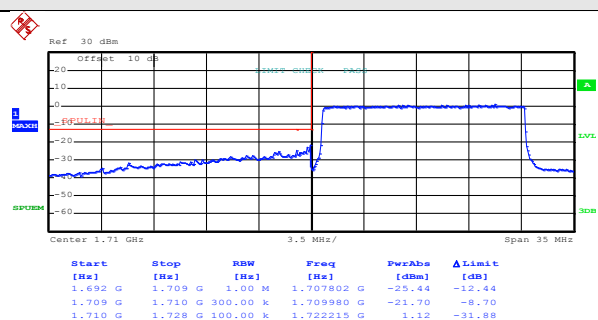


Date: 1.JUL.2017 20:11:23

Highest channel

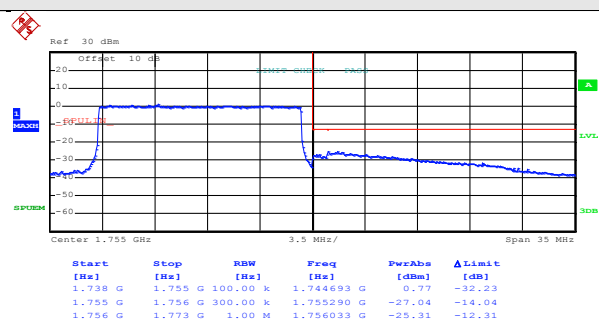
Test Mode:

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



Date: 1.JUL.2017 20:09:59

Lowest channel



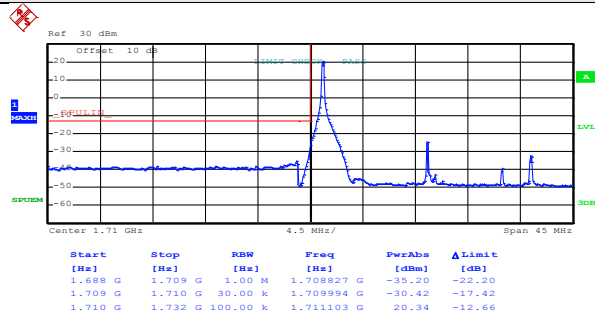
Date: 1.JUL.2017 20:11:43

Highest channel

20MHz:

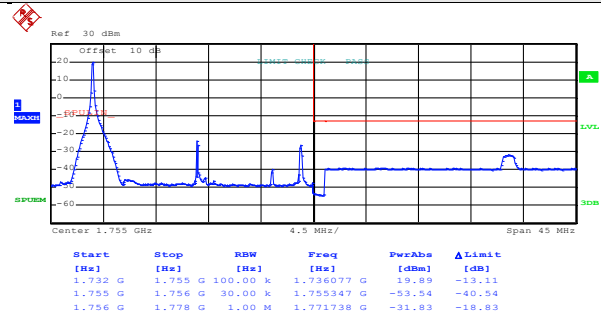
Test Mode:

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



Date: 1.JUL.2017 20:12:20

Lowest channel

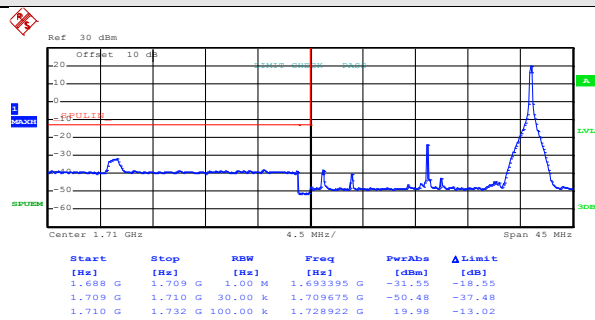


Date: 1.JUL.2017 20:14:07

Highest channel

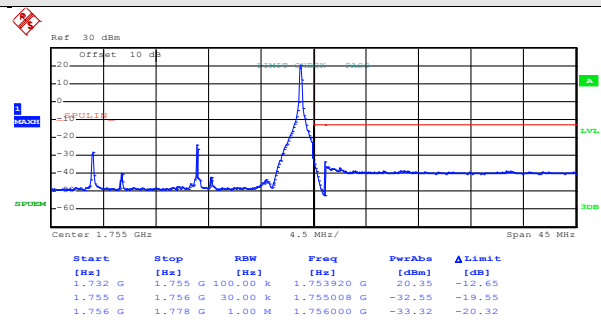
Test Mode:

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



Date: 1.JUL.2017 20:12:38

Lowest channel

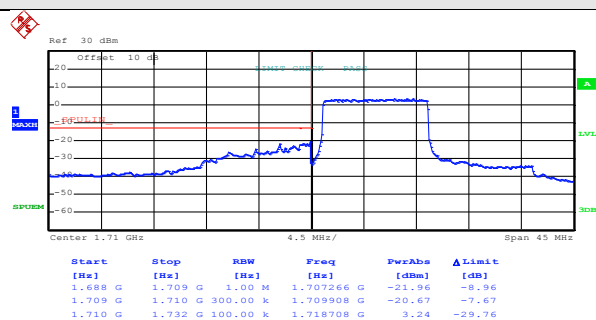


Date: 1.JUL.2017 20:14:25

Highest channel

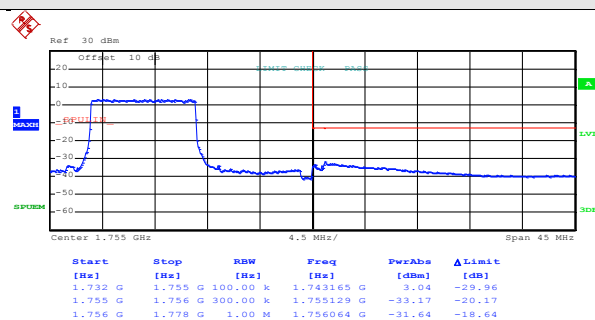
Test Mode:

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



Date: 1.JUL.2017 20:13:12

Lowest channel

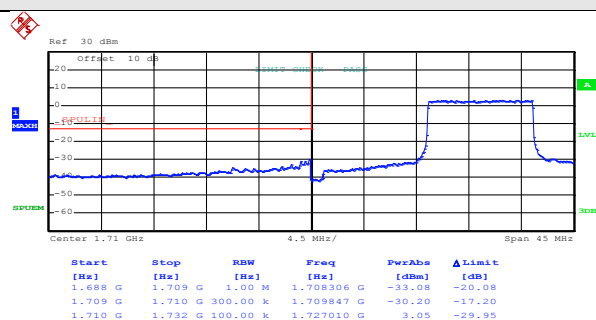


Date: 1.JUL.2017 20:15:16

Highest channel

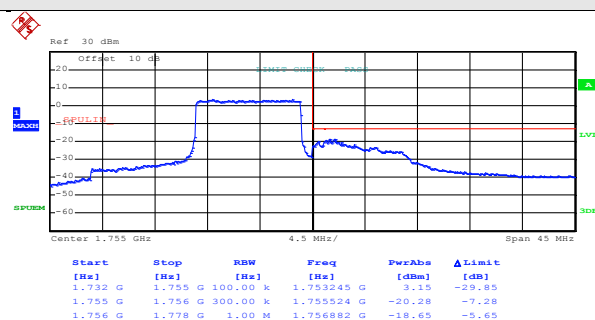
Test Mode:

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



Date: 1.JUL.2017 20:13:28

Lowest channel

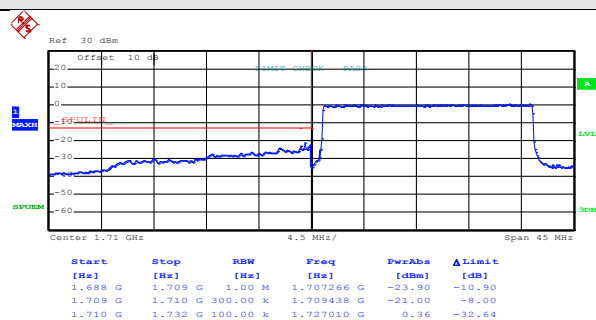


Date: 1.JUL.2017 20:15:33

Highest channel

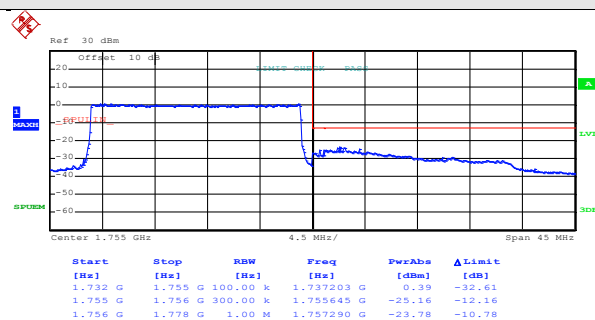
Test Mode:

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



Date: 1.JUL.2017 20:13:45

Lowest channel

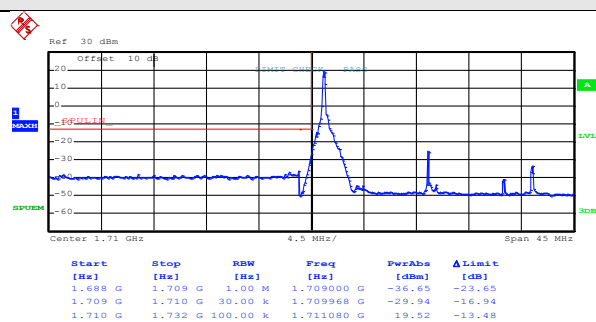


Date: 1.JUL.2017 20:15:51

Highest channel

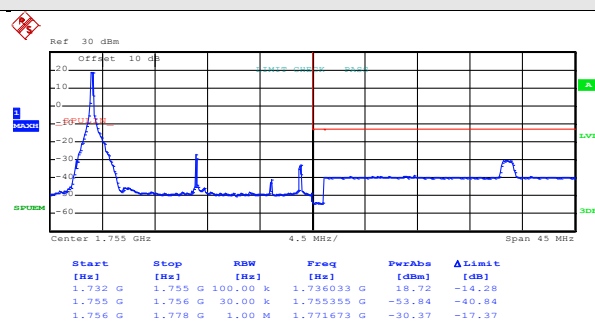
Test Mode:

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



Date: 1.JUL.2017 20:12:27

Lowest channel

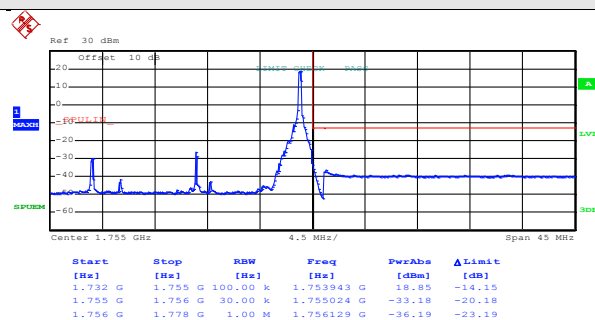
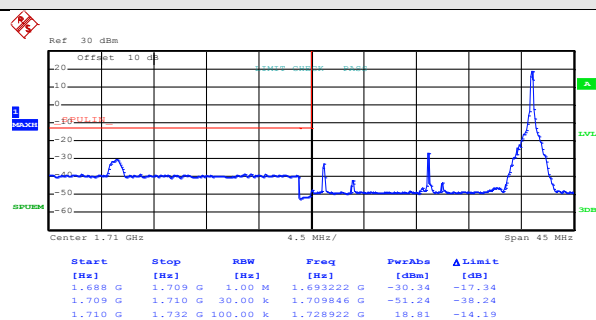


Date: 1.JUL.2017 20:14:15

Highest channel

Test Mode:

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



Date: 1.JUL.2017 20:12:52

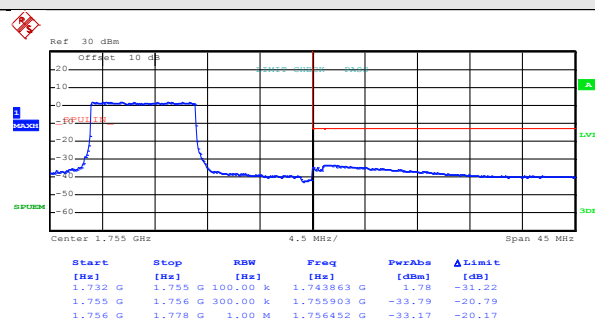
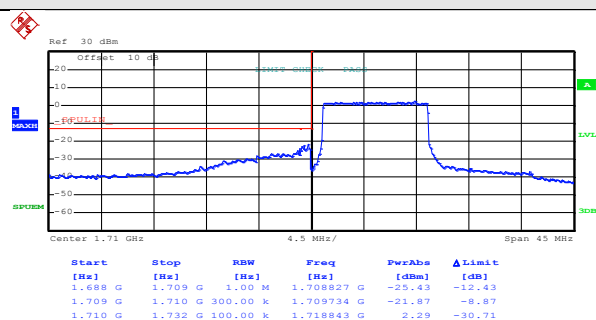
Date: 1.JUL.2017 20:14:32

Lowest channel

Highest channel

Test Mode:

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



Date: 1.JUL.2017 20:13:20

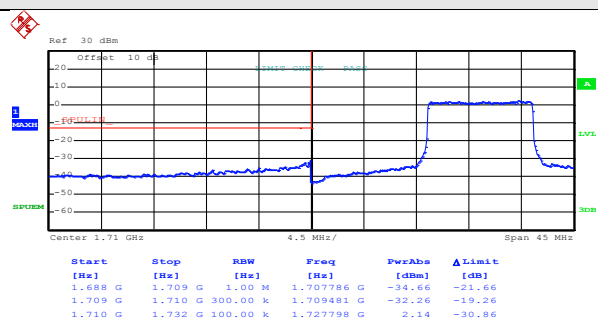
Date: 1.JUL.2017 20:15:24

Lowest channel

Highest channel

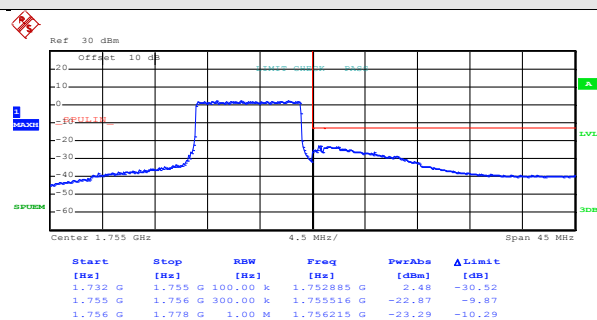
Test Mode:

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



Date: 1.JUL.2017 20:13:36

Lowest channel

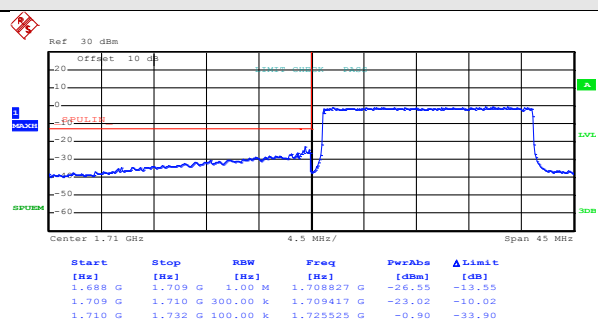


Date: 1.JUL.2017 20:15:41

Highest channel

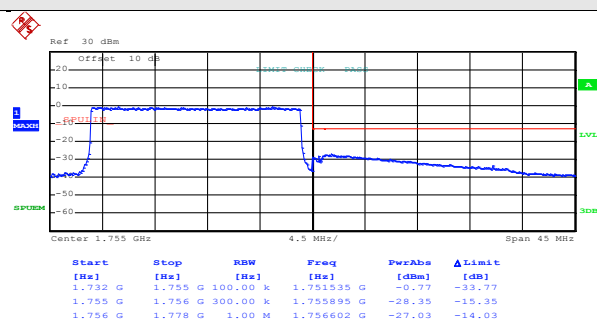
Test Mode:

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



Date: 1.JUL.2017 20:13:50

Lowest channel



Date: 1.JUL.2017 20:15:57

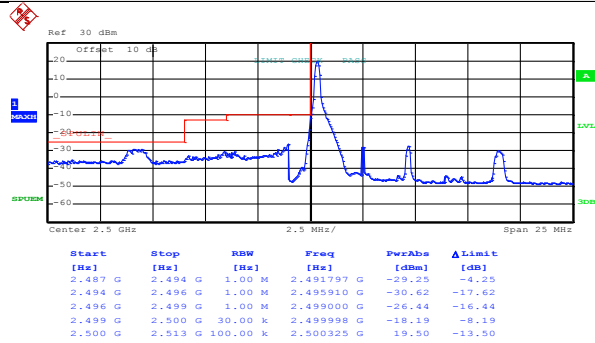
Highest channel

LTE band 7 part:

5MHz:

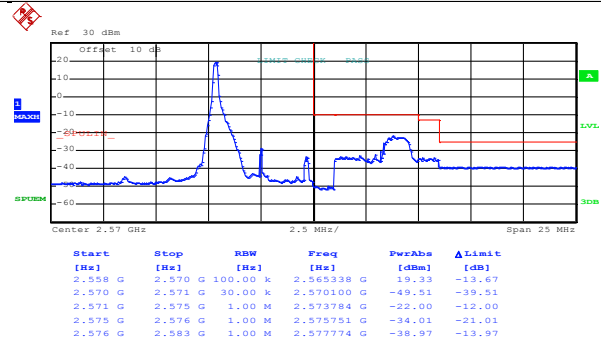
Test Mode:

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



Date: 1.JUL.2017 20:22:09

Lowest channel

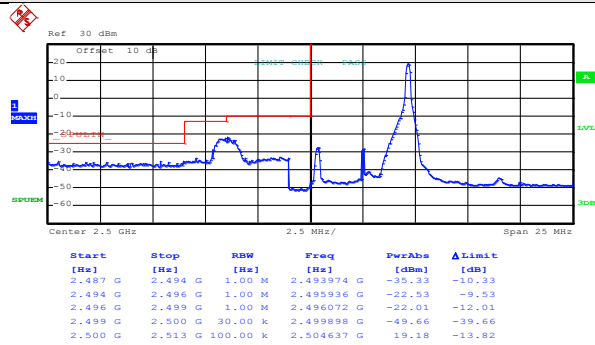


Date: 1.JUL.2017 20:23:59

Highest channel

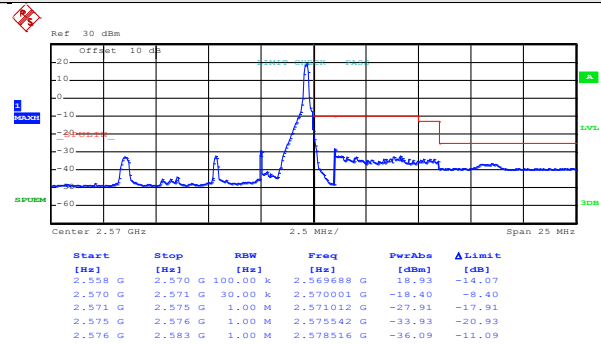
Test Mode:

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



Date: 1.JUL.2017 20:22:30

Lowest channel

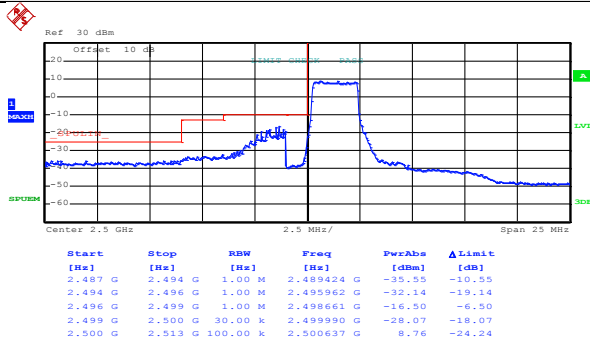


Date: 1.JUL.2017 20:24:18

Highest channel

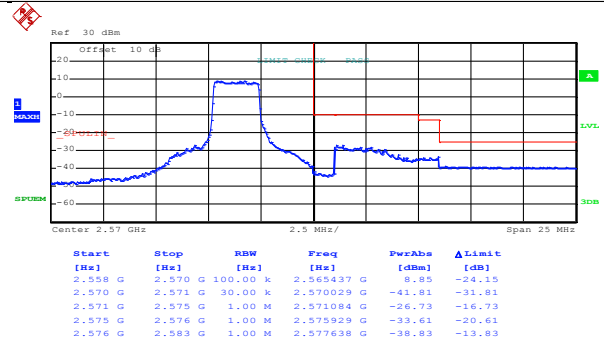
Test Mode:

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



Date: 1.JUL.2017 20:22:49

Lowest channel

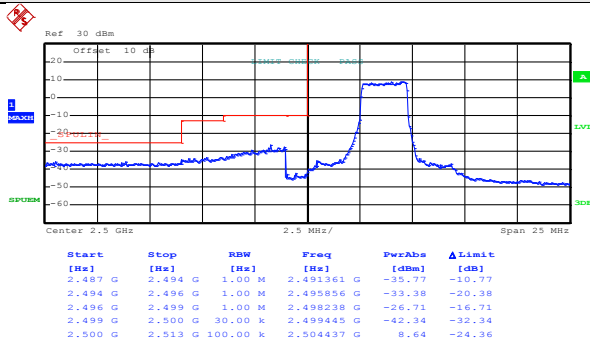


Date: 1.JUL.2017 20:24:35

Highest channel

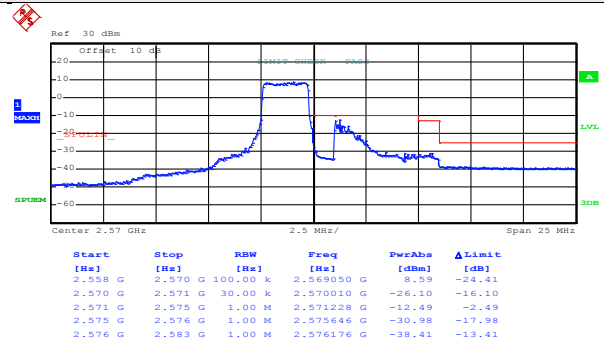
Test Mode:

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



Date: 1.JUL.2017 20:23:09

Lowest channel

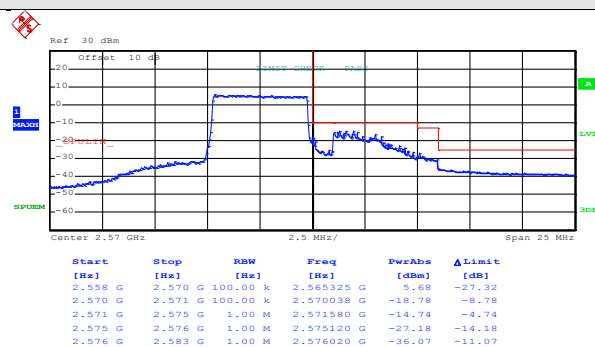
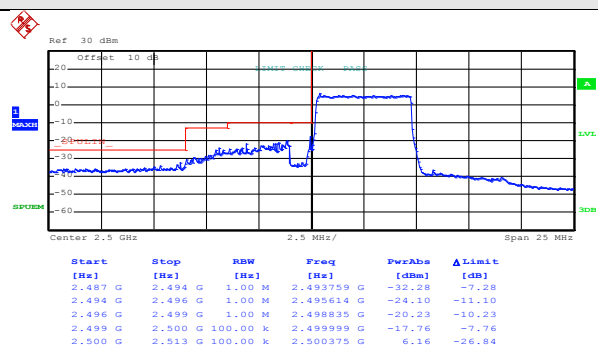


Date: 1.JUL.2017 20:24:52

Highest channel

Test Mode:

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



Date: 1.JUL.2017 20:23:30

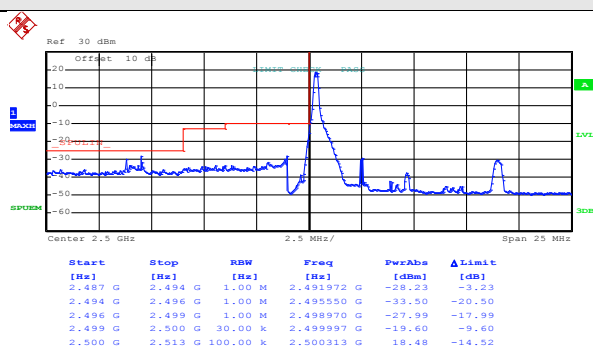
Date: 1.JUL.2017 20:25:21

Lowest channel

Highest channel

Test Mode:

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



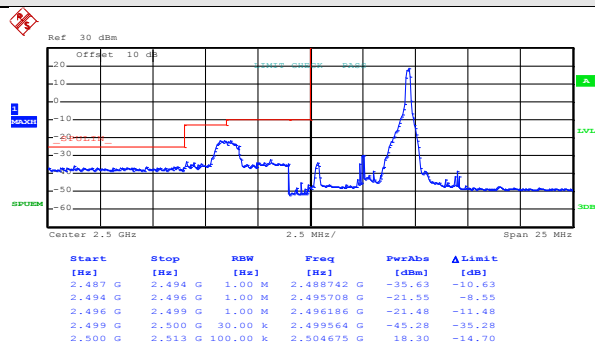
Date: 1.JUL.2017 20:22:20

Lowest channel

Highest channel

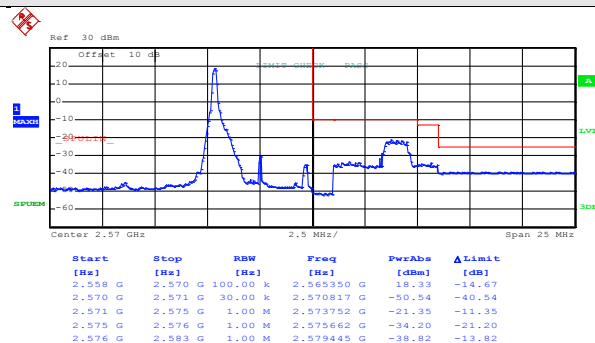
Test Mode:

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



Date: 1.JUL.2017 20:22:39

Lowest channel

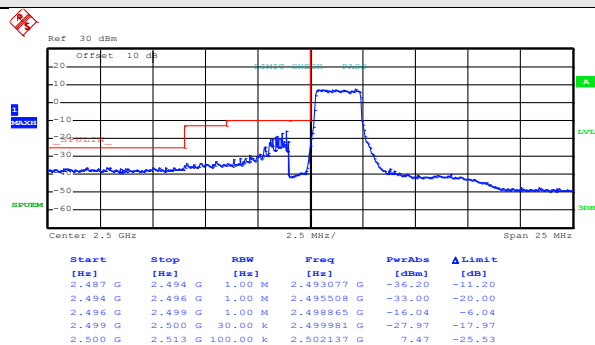


Date: 1.JUL.2017 20:24:08

Highest channel

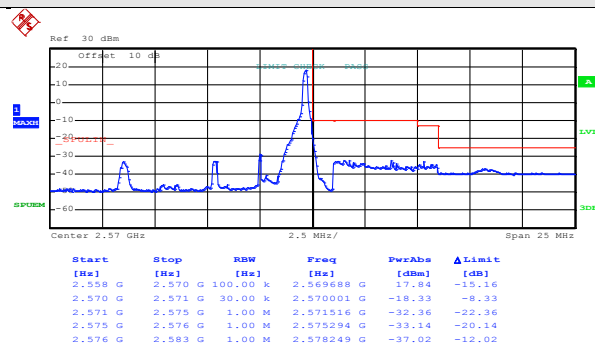
Test Mode:

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



Date: 1.JUL.2017 20:22:58

Lowest channel

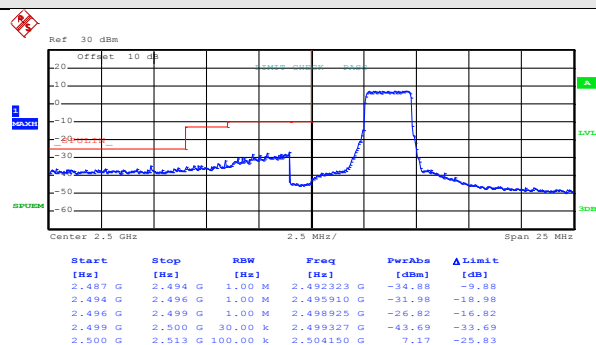


Date: 1.JUL.2017 20:24:25

Highest channel

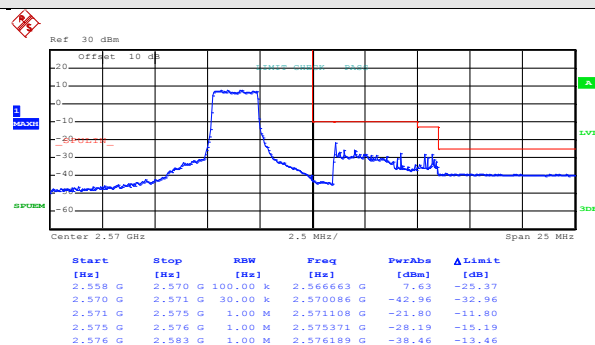
Test Mode:

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



Date: 1.JUL.2017 20:23:16

Lowest channel

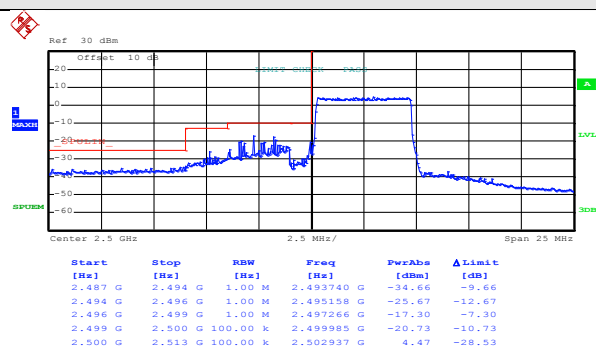


Date: 1.JUL.2017 20:24:42

Highest channel

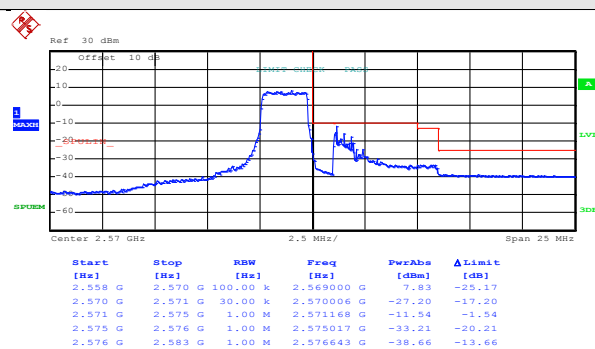
Test Mode:

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



Date: 1.JUL.2017 20:23:37

Lowest channel



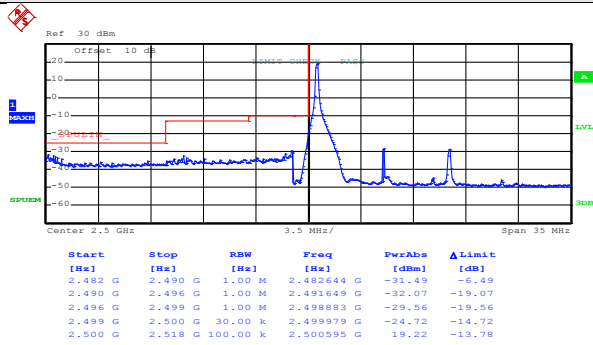
Date: 1.JUL.2017 20:25:01

Highest channel

10MHz:

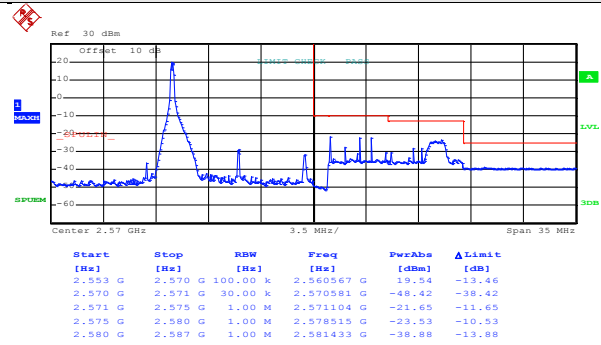
Test Mode:

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



Date: 1.JUL.2017 20:32:04

Lowest channel

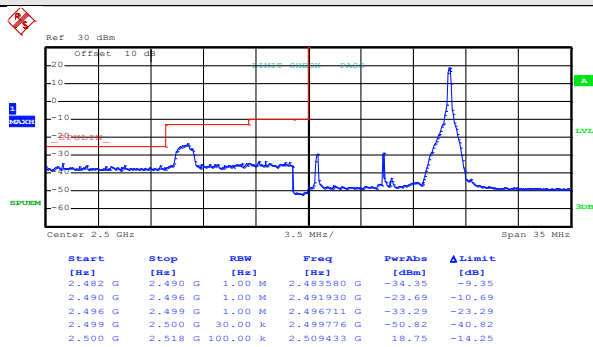


Date: 1.JUL.2017 20:34:01

Highest channel

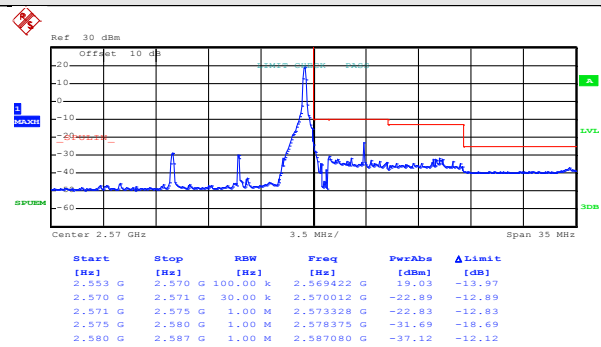
Test Mode:

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



Date: 1.JUL.2017 20:32:28

Lowest channel

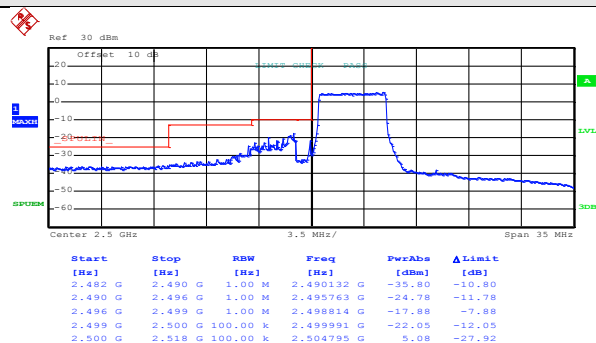


Date: 1.JUL.2017 20:34:19

Highest channel

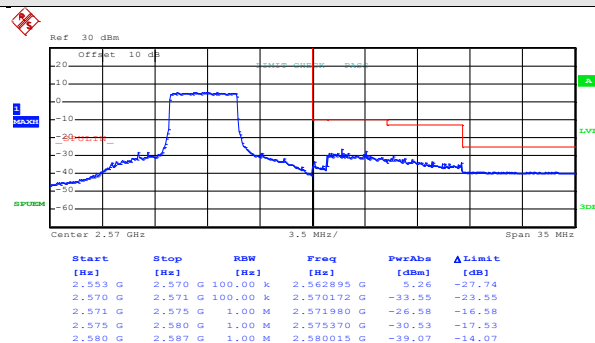
Test Mode:

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



Date: 1.JUL.2017 20:32:49

Lowest channel

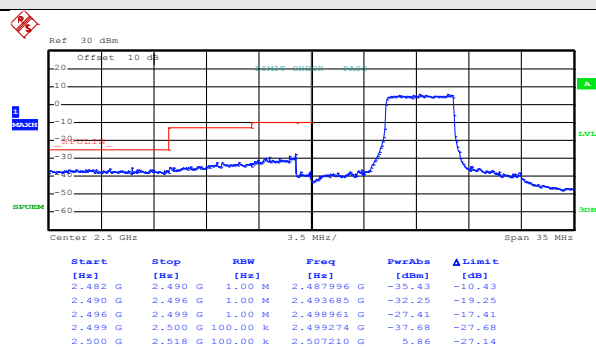


Date: 1.JUL.2017 20:34:52

Highest channel

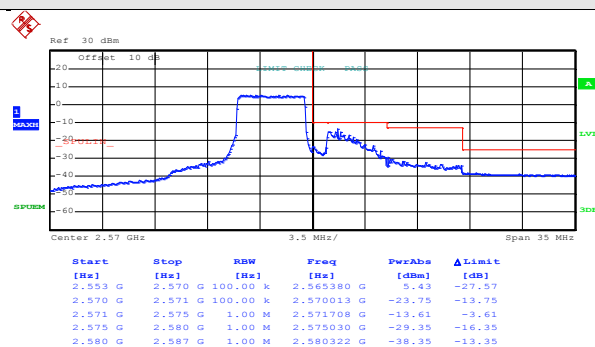
Test Mode:

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



Date: 1.JUL.2017 20:33:06

Lowest channel

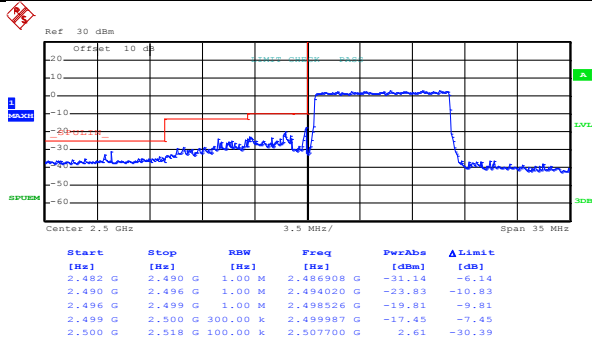


Date: 1.JUL.2017 20:35:09

Highest channel

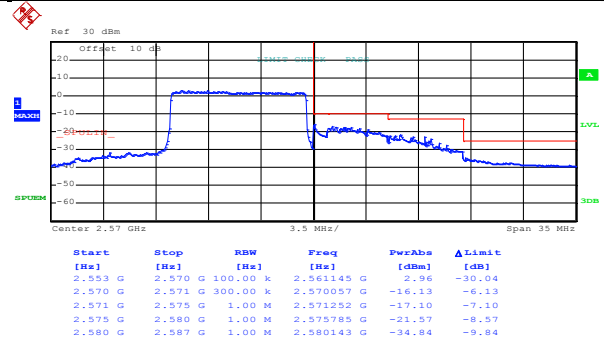
Test Mode:

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



Date: 1.JUL.2017 20:33:33

Lowest channel

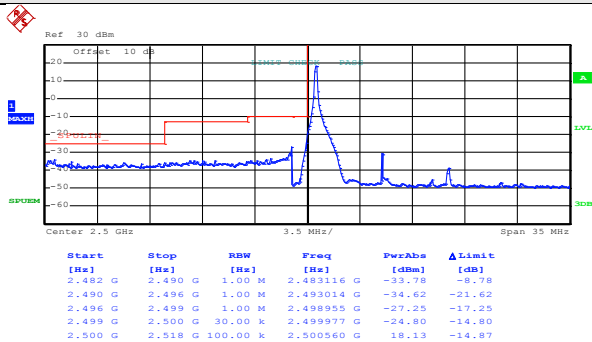


Date: 1.JUL.2017 20:35:35

Highest channel

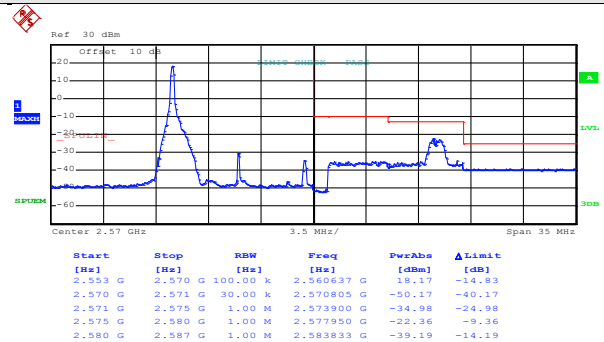
Test Mode:

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



Date: 1.JUL.2017 20:32:17

Lowest channel

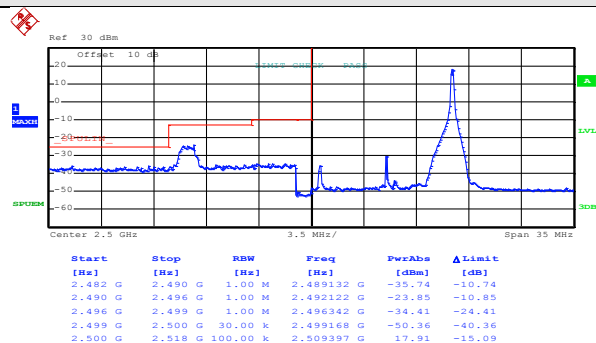


Date: 1.JUL.2017 20:34:11

Highest channel

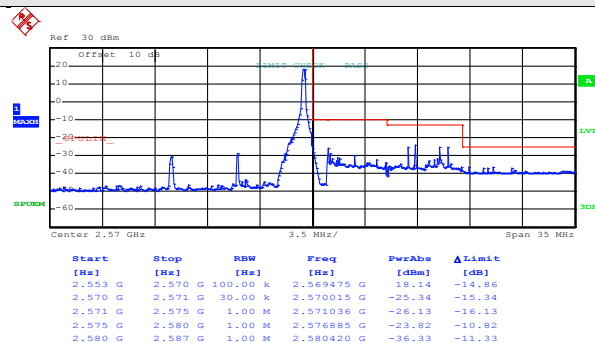
Test Mode:

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



Date: 1.JUL.2017 20:32:35

Lowest channel

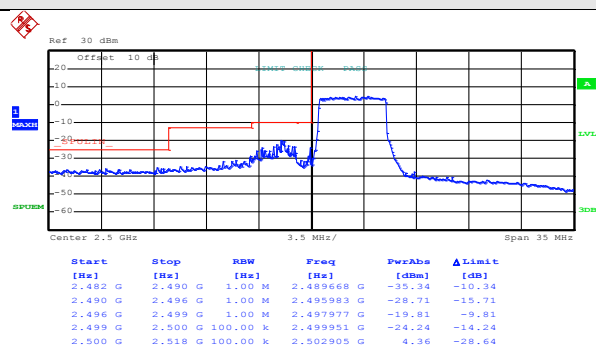


Date: 1.JUL.2017 20:34:29

Highest channel

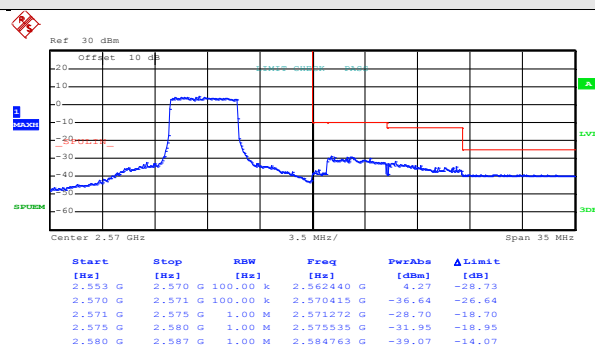
Test Mode:

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



Date: 1.JUL.2017 20:32:56

Lowest channel

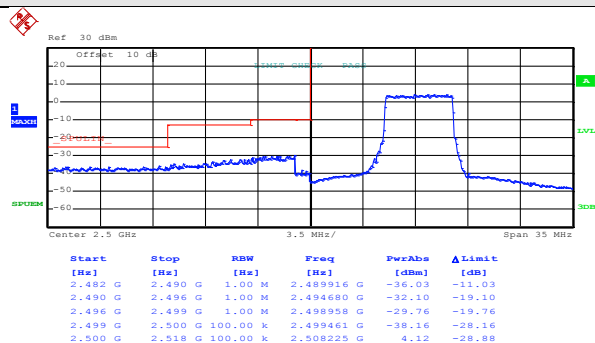


Date: 1.JUL.2017 20:34:58

Highest channel

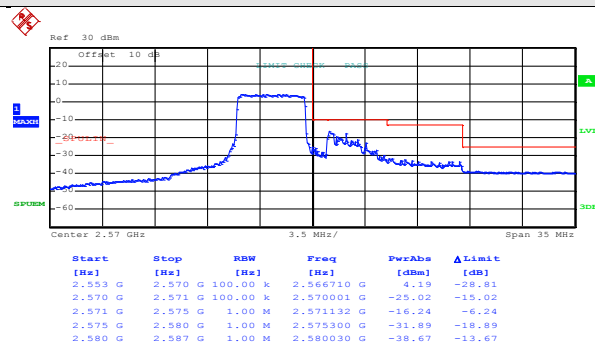
Test Mode:

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



Date: 1.JUL.2017 20:33:21

Lowest channel

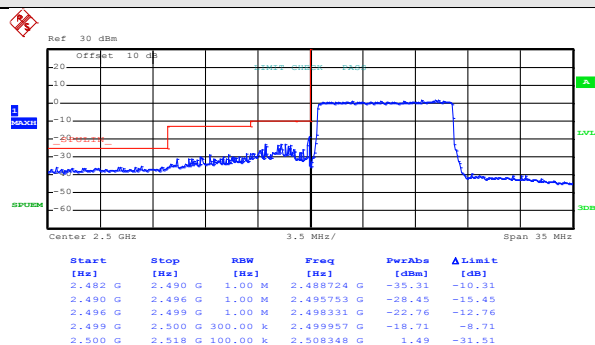


Date: 1.JUL.2017 20:35:17

Highest channel

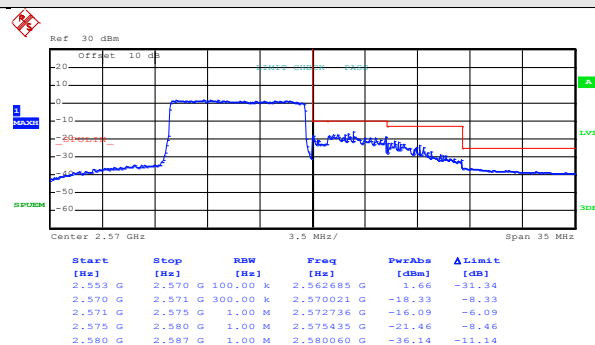
Test Mode:

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



Date: 1.JUL.2017 20:33:39

Lowest channel



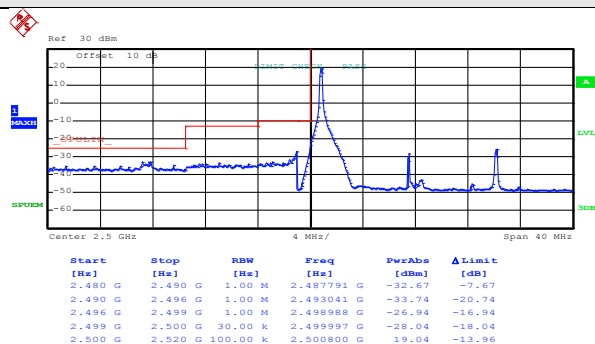
Date: 1.JUL.2017 20:35:47

Highest channel

15MHz:

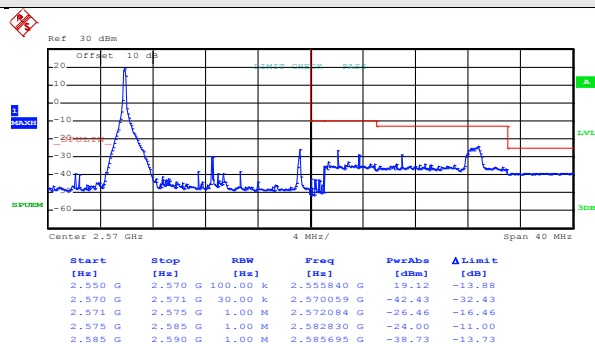
Test Mode:

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



Date: 1.JUL.2017 20:36:40

Lowest channel

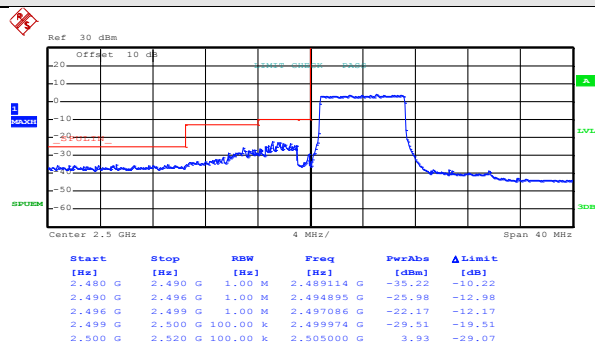


Date: 1.JUL.2017 20:38:44

Highest channel

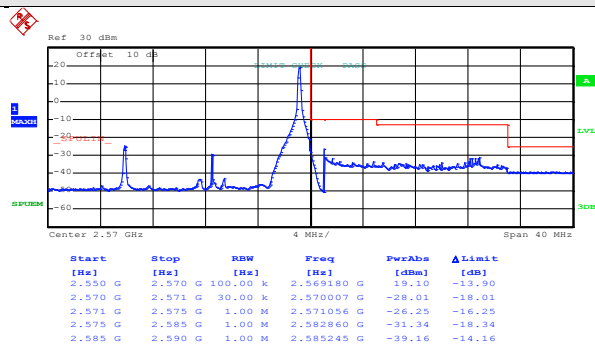
Test Mode:

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



Date: 1.JUL.2017 20:37:24

Lowest channel

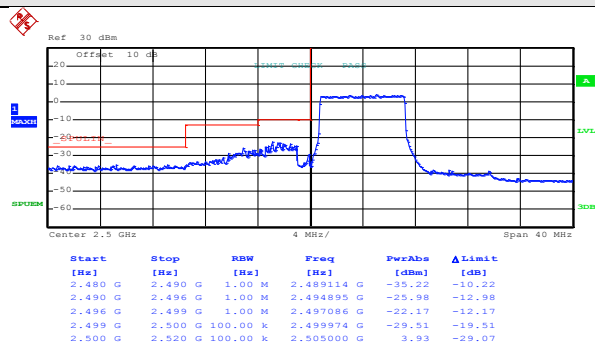


Date: 1.JUL.2017 20:39:00

Highest channel

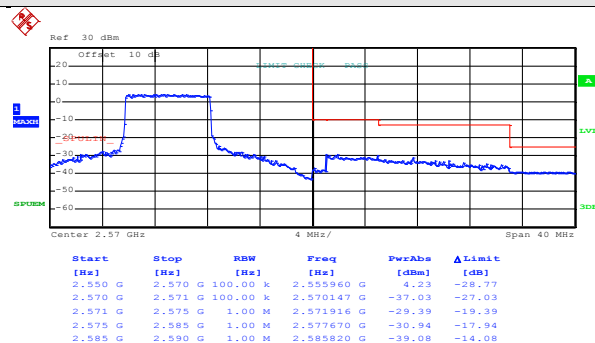
Test Mode:

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



Date: 1.JUL.2017 20:37:24

Lowest channel

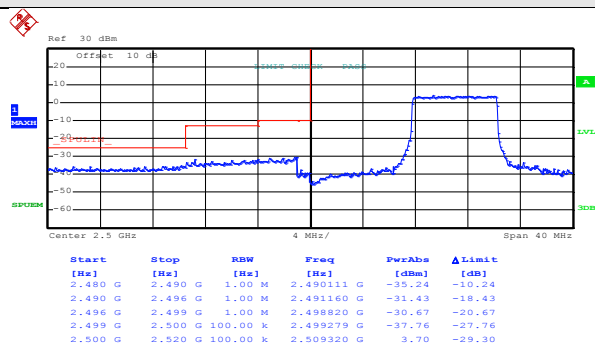


Date: 1.JUL.2017 20:39:25

Highest channel

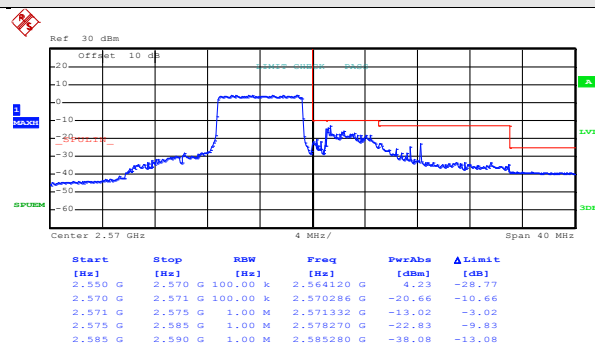
Test Mode:

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



Date: 1.JUL.2017 20:37:42

Lowest channel

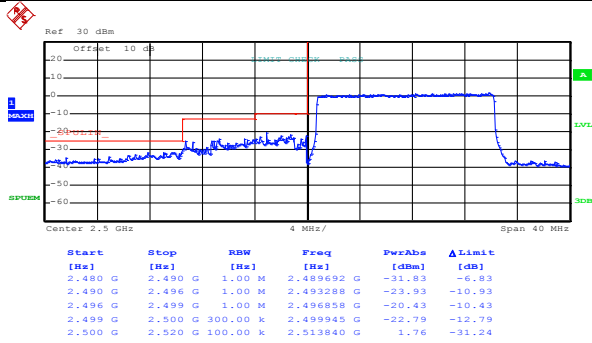


Date: 1.JUL.2017 20:39:41

Highest channel

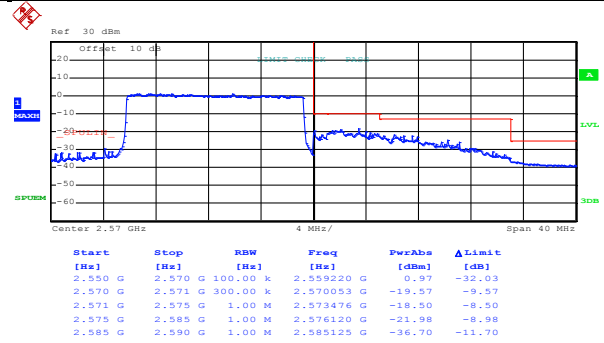
Test Mode:

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



Date: 1.JUL.2017 20:38:16

Lowest channel

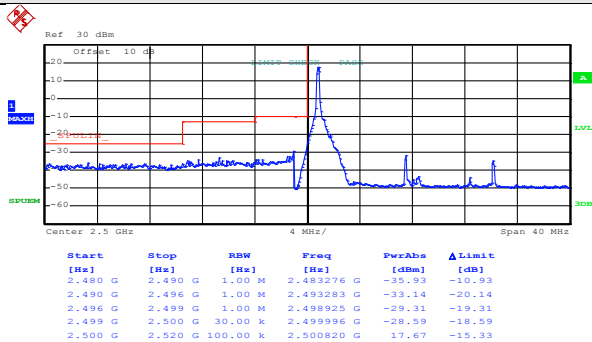


Date: 1.JUL.2017 20:40:07

Highest channel

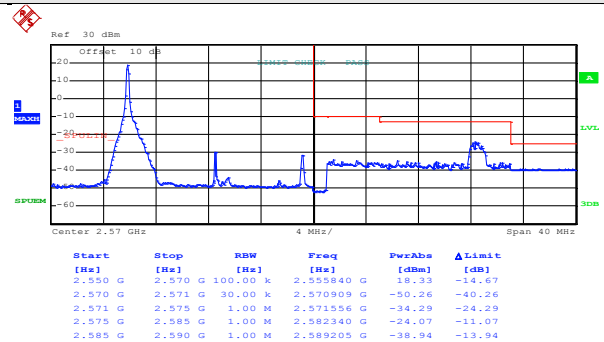
Test Mode:

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



Date: 1.JUL.2017 20:36:48

Lowest channel

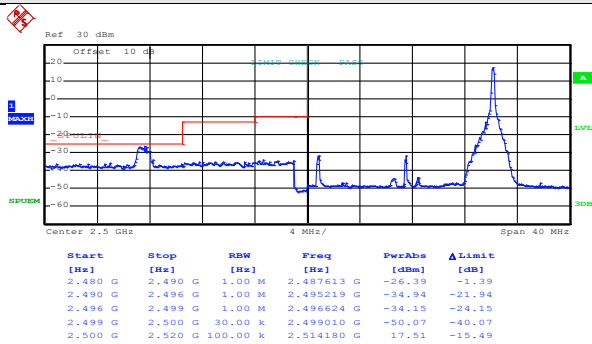


Date: 1.JUL.2017 20:38:50

Highest channel

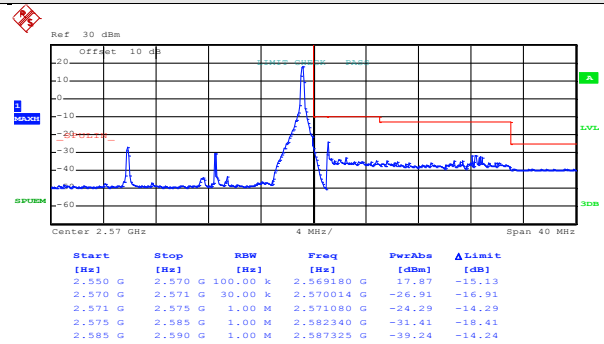
Test Mode:

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



Date: 1.JUL.2017 20:37:08

Lowest channel

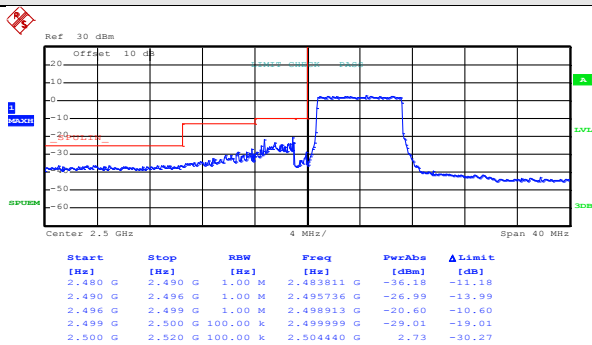


Date: 1.JUL.2017 20:39:08

Highest channel

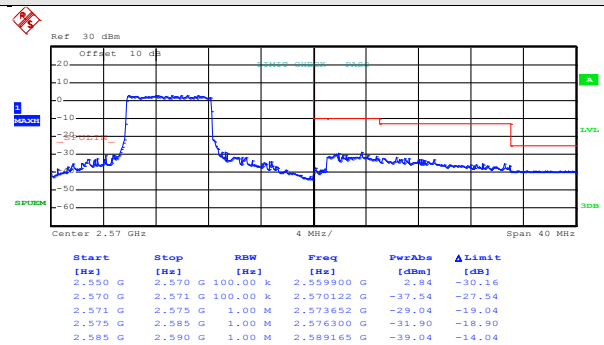
Test Mode:

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



Date: 1.JUL.2017 20:37:31

Lowest channel

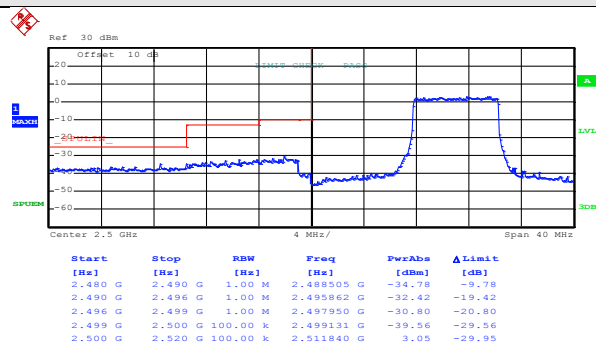


Date: 1.JUL.2017 20:39:31

Highest channel

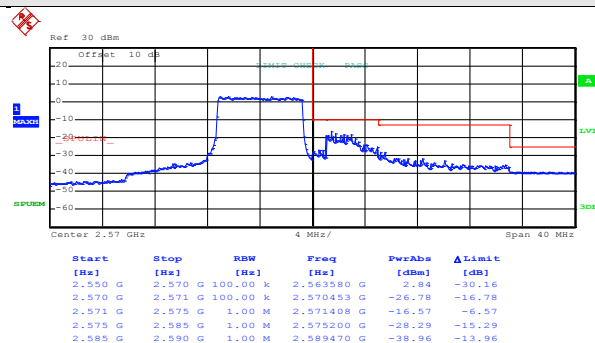
Test Mode:

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



Date: 1.JUL.2017 20:37:55

Lowest channel

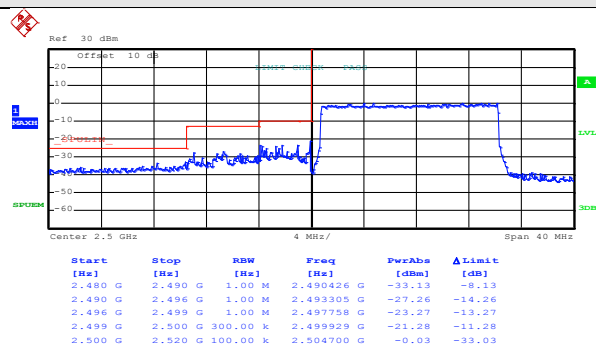


Date: 1.JUL.2017 20:39:53

Highest channel

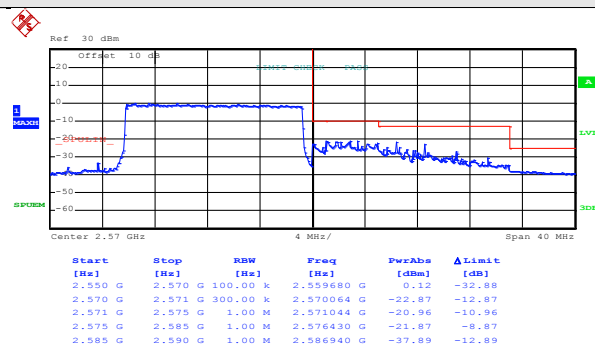
Test Mode:

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



Date: 1.JUL.2017 20:38:22

Lowest channel



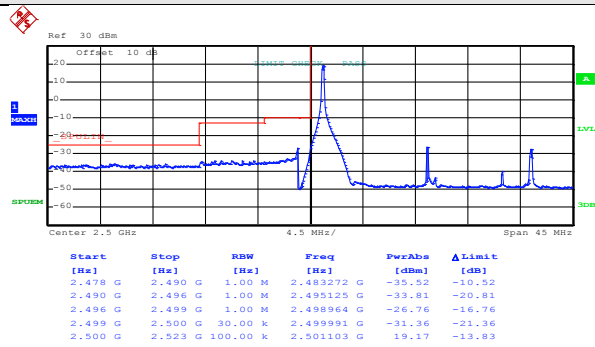
Date: 1.JUL.2017 20:40:12

Highest channel

20MHz:

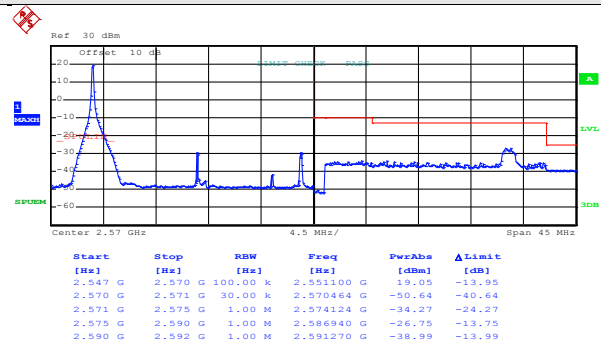
Test Mode:

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



Date: 1.JUL.2017 20:41:14

Lowest channel

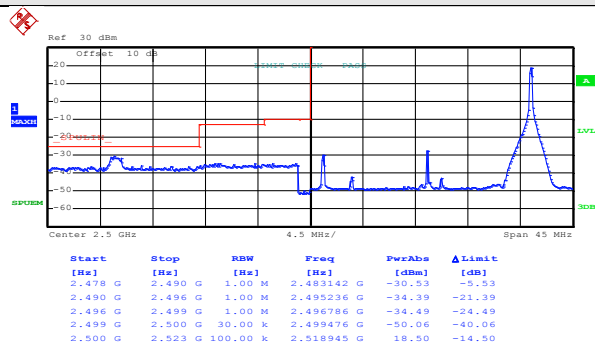


Date: 1.JUL.2017 20:42:51

Highest channel

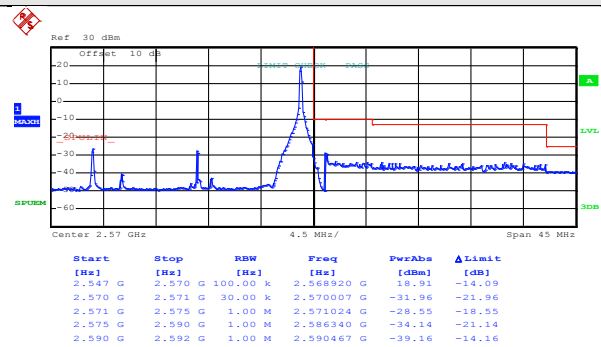
Test Mode:

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



Date: 1.JUL.2017 20:41:30

Lowest channel

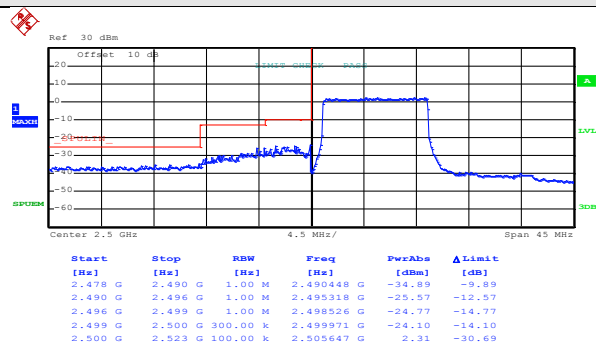


Date: 1.JUL.2017 20:43:06

Highest channel

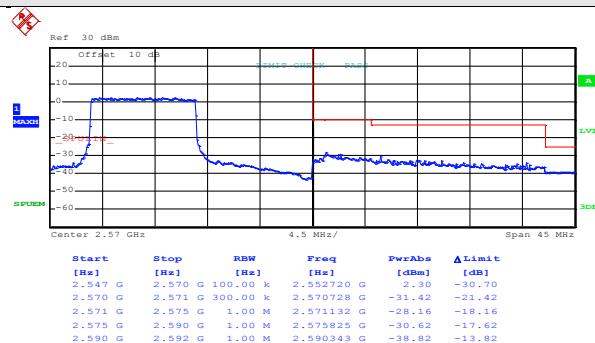
Test Mode:

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



Date: 1.JUL.2017 20:41:54

Lowest channel

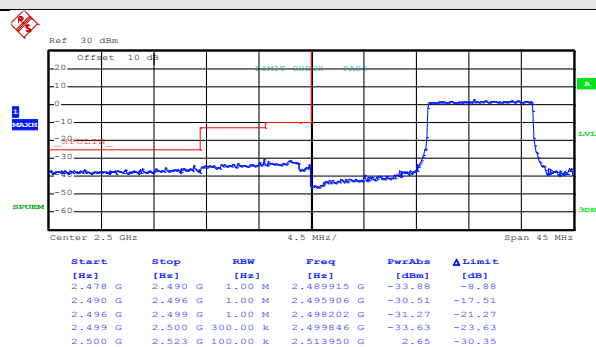


Date: 1.JUL.2017 20:43:28

Highest channel

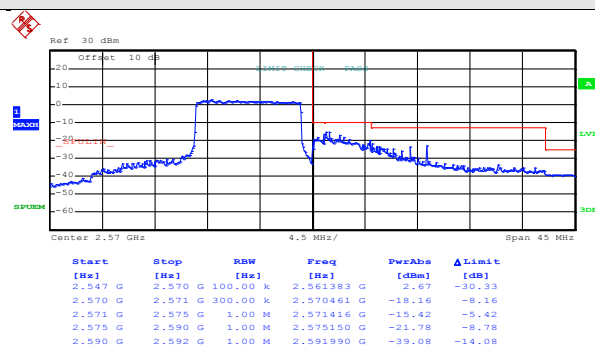
Test Mode:

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



Date: 1.JUL.2017 20:42:09

Lowest channel

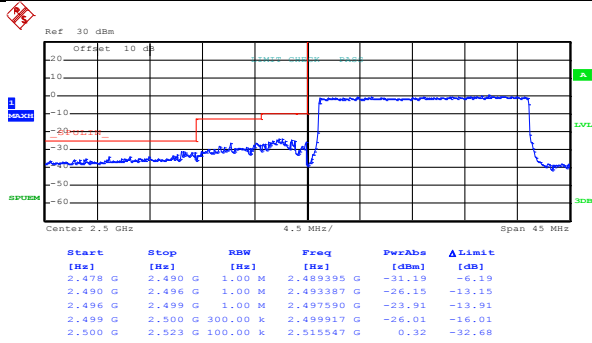


Date: 1.JUL.2017 20:43:46

Highest channel

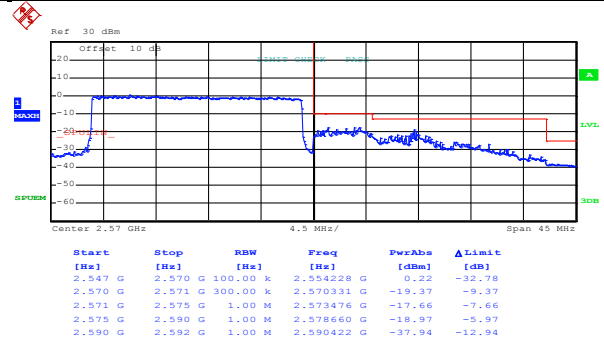
Test Mode:

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



Date: 1.JUL.2017 20:42:26

Lowest channel

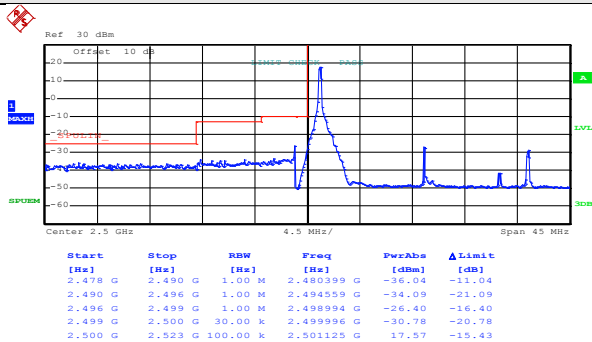


Date: 1.JUL.2017 20:44:04

Highest channel

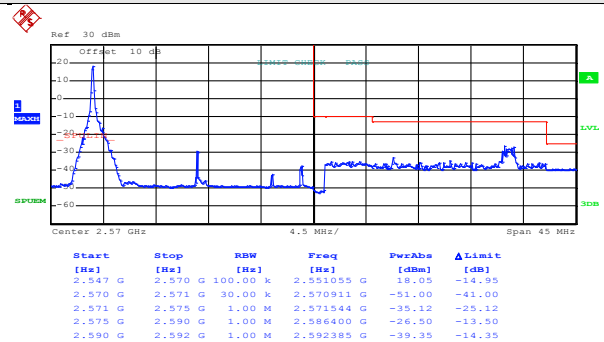
Test Mode:

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



Date: 1.JUL.2017 20:41:21

Lowest channel

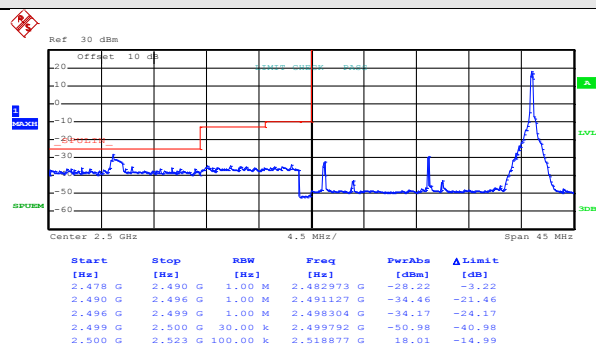


Date: 1.JUL.2017 20:42:58

Highest channel

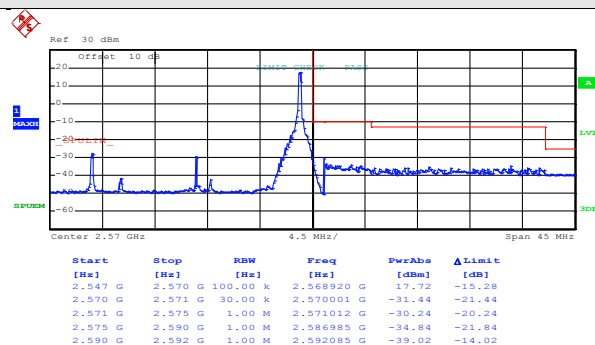
Test Mode:

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



Date: 1.JUL.2017 20:41:39

Lowest channel

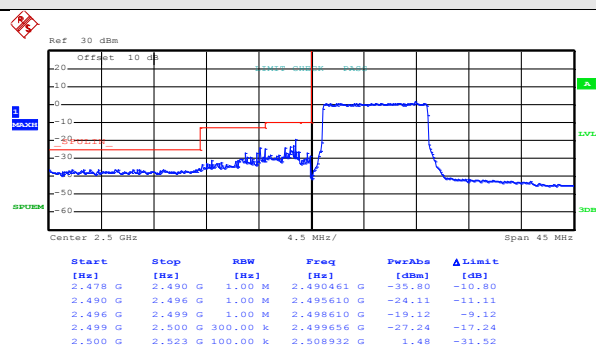


Date: 1.JUL.2017 20:43:13

Highest channel

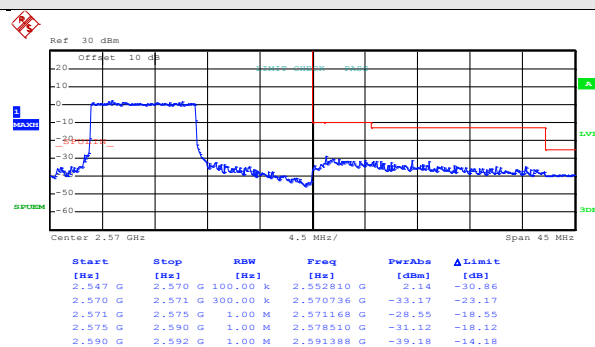
Test Mode:

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



Date: 1.JUL.2017 20:42:00

Lowest channel

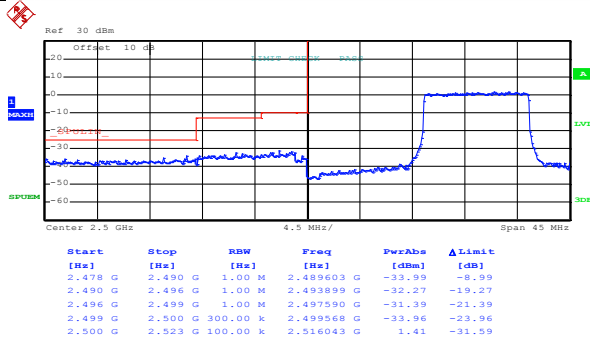


Date: 1.JUL.2017 20:43:36

Highest channel

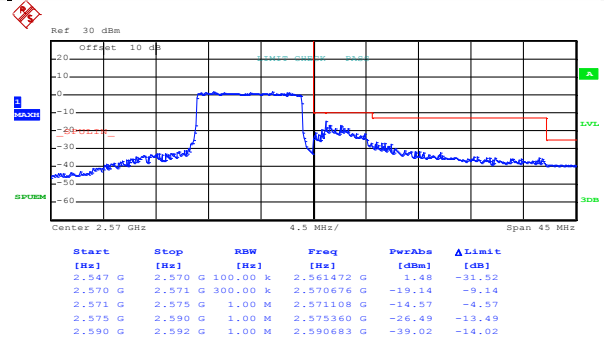
Test Mode:

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



Date: 1.JUL.2017 20:42:17

Lowest channel

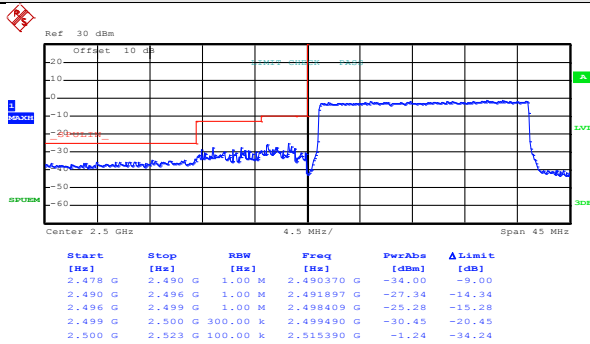


Date: 1.JUL.2017 20:43:54

Highest channel

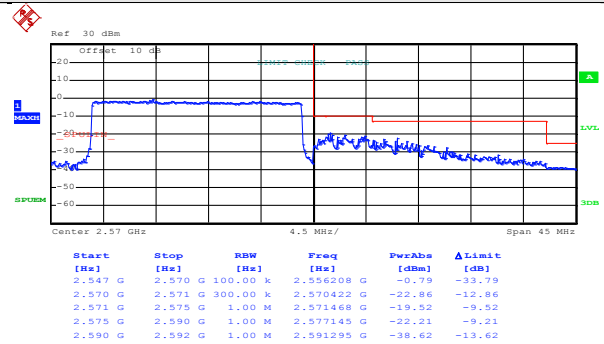
Test Mode:

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



Date: 1.JUL.2017 20:42:32

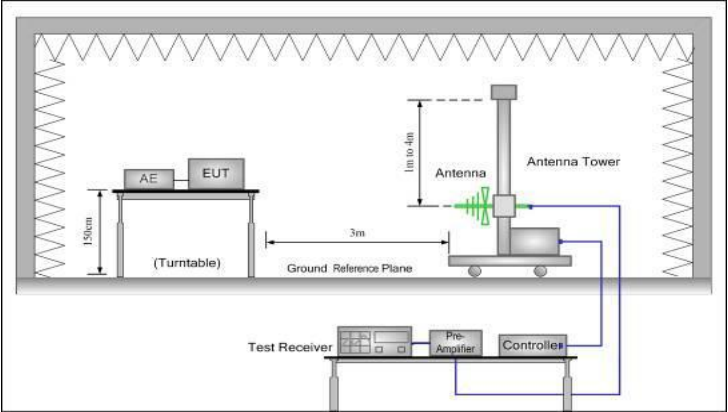
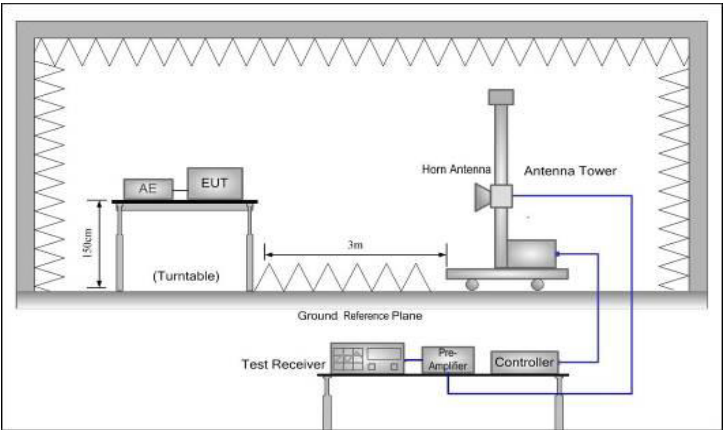
Lowest channel



Date: 1.JUL.2017 20:44:10

Highest channel

6.10 ERP, EIRP Measurement

Test Requirement:	part 27.50(c), part 27.50(d)
Test Method:	FCC part 2.1046
Limit:	LTE Band 4: 1W EIRP LTE Band 7: 2W EIRP
Test setup:	Below 1GHz  Above 1GHz 

Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. ERP in frequency band below 1GHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 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 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	22.68	30.00	Pass
					H	25.30		
1710.70	19957	16QAM	1.4	H	V	22.82		
					H	25.33		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	22.39	30.00	Pass
					H	25.14		
1710.70	19957	16QAM	1.4	H	V	22.52		
					H	25.07		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.45	30.00	Pass
					H	24.10		
1710.70	19957	16QAM	1.4	H	V	21.65		
					H	24.36		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	22.17	30.00	Pass
					H	25.15		
1732.50	20175	16QAM	1.4	H	V	22.24		
					H	25.34		
1.4MHz(RB size 3 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	22.41	30.00	Pass
					H	25.39		
1732.50	20175	16QAM	1.4	H	V	22.24		
					H	25.91		
1.4MHz(RB size 6 & RB offset 0)								
1732.50	20175	QPSK	1.4	H	V	21.68	30.00	Pass
					H	24.39		
1732.50	20175	16QAM	1.4	H	V	21.91		
					H	24.24		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	22.34	30.00	Pass
					H	25.14		
1754.30	20393	16QAM	1.4	H	V	22.91		
					H	25.44		
1.4MHz(RB size 3 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	22.24	30.00	Pass
					H	25.17		
1754.30	20393	16QAM	1.4	H	V	22.23		
					H	25.93		
1.4MHz(RB size 6 & RB offset 0)								
1754.30	20393	QPSK	1.4	H	V	21.24	30.00	Pass
					H	24.68		
1754.30	20393	16QAM	1.4	H	V	21.36		
					H	24.18		

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	22.38	30.00	Pass
					H	25.34		
1720.00	20050	16QAM	20	H	V	22.37		
					H	25.74		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	22.37	30.00	Pass
					H	25.18		
1720.00	20050	16QAM	20	H	V	22.82		
					H	25.44		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20	H	V	21.38	30.00	Pass
					H	24.41		
1720.00	20050	16QAM	20	H	V	21.71		
					H	24.44		

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	22.44	30.00	Pass
					H	25.37		
1732.50	20175	16QAM	20	H	V	22.36		
					H	25.41		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	22.33	30.00	Pass
					H	25.14		
1732.50	20175	16QAM	20	H	V	22.93		
					H	25.25		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20	H	V	21.34	30.00	Pass
					H	24.37		
1732.50	20175	16QAM	20	H	V	21.41		
					H	24.69		

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	22.39	30.00	Pass
					H	25.41		
1745.00	20300	16QAM	20	H	V	22.01		
					H	25.54		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	22.34	30.00	Pass
					H	25.64		
1745.00	20300	16QAM	20	H	V	22.34		
					H	25.73		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20	H	V	21.33	30.00	Pass
					H	24.24		
1745.00	20300	16QAM	20	H	V	21.15		
					H	24.25		

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	16.57	33.00	Pass
					H	23.86		
2502.50	20775	16QAM	5	H	V	16.78		
					H	23.99		
5MHz(RB size 12& RB offset 0)								
2502.50	20775	QPSK	5	H	V	16.73	33.00	Pass
					H	23.44		
2502.50	20775	16QAM	5	H	V	16.57		
					H	23.87		
5MHz(RB size 25& RB offset 0)								
2502.50	20775	QPSK	5	H	V	14.45	33.00	Pass
					H	21.29		
2502.50	20775	16QAM	5	H	V	14.75		
					H	22.07		

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	16.25	33.00	Pass
					H	23.22		
2535.00	21100	16QAM	5	H	V	16.83		
					H	23.27		
5MHz(RB size 12& RB offset 0)								
2535.00	21100	QPSK	5	H	V	16.39	33.00	Pass
					H	23.01		
2535.00	21100	16QAM	5	H	V	16.94		
					H	23.73		
5MHz(RB size 25& RB offset 0)								
2535.00	21100	QPSK	5	H	V	14.83	33.00	Pass
					H	21.22		
2535.00	21100	16QAM	5	H	V	14.44		
					H	22.52		

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	16.53	33.00	Pass
					H	23.33		
2567.50	21425	16QAM	5	H	V	16.83		
					H	23.48		
5MHz(RB size 12& RB offset 0)								
2567.50	21425	QPSK	5	H	V	16.45	33.00	Pass
					H	23.14		
2567.50	21425	16QAM	5	H	V	16.39		
					H	23.78		
5MHz(RB size 25& RB offset 0)								
2567.50	21425	QPSK	5	H	V	14.41	33.00	Pass
					H	21.56		
2567.50	21425	16QAM	5	H	V	14.87		
					H	22.38		

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	16.76	33.00	Pass
					H	23.52		
2510.00	20850	16QAM	20	H	V	16.20		
					H	23.12		
20MHz(RB size 50 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	16.43	33.00	Pass
					H	23.31		
2510.00	20850	16QAM	20	H	V	16.38		
					H	23.89		
20MHz(RB size 100 & RB offset 0)								
2510.00	20850	QPSK	20	H	V	14.67	33.00	Pass
					H	21.37		
2510.00	20850	16QAM	20	H	V	14.76		
					H	22.57		

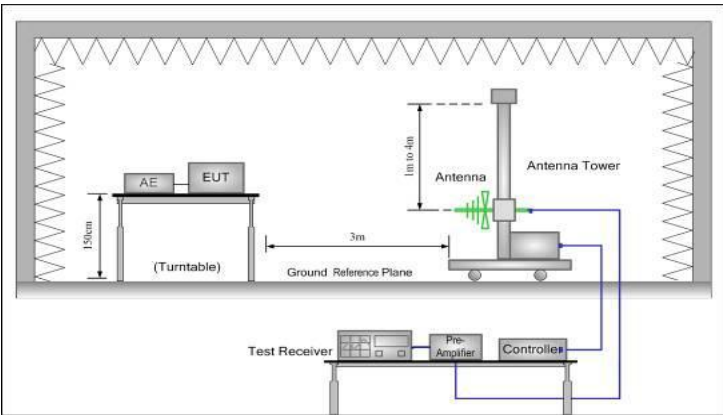
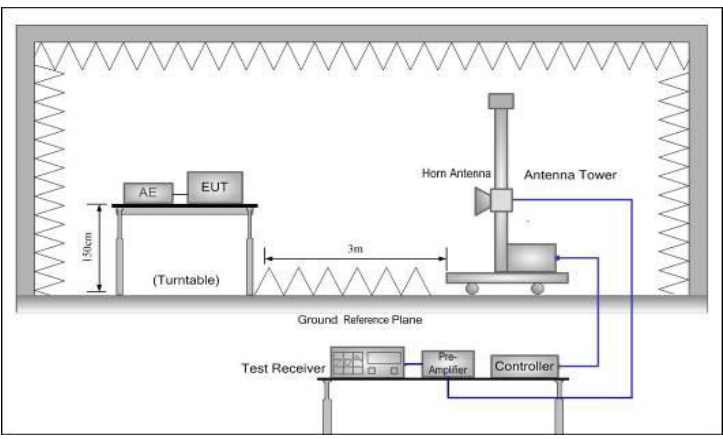
Middle channel

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	16.56	33.00	Pass
					H	23.54		
2535.00	21100	16QAM	20	H	V	16.16		
					H	23.75		
20MHz(RB size 50 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	16.45	33.00	Pass
					H	23.18		
2535.00	21100	16QAM	20	H	V	16.15		
					H	23.81		
20MHz(RB size 100 & RB offset 0)								
2535.00	21100	QPSK	20	H	V	14.45	33.00	Pass
					H	21.39		
2535.00	21100	16QAM	20	H	V	14.87		
					H	22.65		

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	16.21	33.00	Pass
					H	23.48		
2560.00	21350	16QAM	20	H	V	16.39		
					H	23.78		
20MHz(RB size 50 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	16.12	33.00	Pass
					H	23.38		
2560.00	21350	16QAM	20	H	V	16.42		
					H	23.33		
20MHz(RB size 100 & RB offset 0)								
2560.00	21350	QPSK	20	H	V	14.31	33.00	Pass
					H	21.41		
2560.00	21350	16QAM	20	H	V	14.23		
					H	22.28		

6.11 Field strength of spurious radiation measurement

Test Requirement:	Part 27.53(m), Part 27.53(h)
Test Method:	FCC part 2.1053
Limit:	LTE Band 4 & LTE Band 17: -13dBm.
Test setup:	Below 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $ERP / EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data (worst case):

LTE Band 4 Part: 1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3421.40	Vertical	-47.20	-13.00	Pass
5132.10	V	-45.59		
6842.80	V	-38.49		
3421.40	Horizontal	-43.70		
5132.10	H	-44.26		
6842.80	H	-36.77		
Middle				
3465.00	Vertical	-47.77	-13.00	Pass
5197.50	V	-45.24		
6930.00	V	-34.83		
3465.00	Horizontal	-48.41		
5197.50	H	-43.97		
6930.00	H	-35.80		
Highest				
3508.60	Vertical	-47.59	-13.00	Pass
5262.90	V	-45.44		
7017.20	V	-37.68		
3508.60	Horizontal	-42.71		
5262.90	H	-43.40		
7017.20	H	-39.30		

Note

1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-47.92	-13.00	Pass
5134.50	V	-45.16		
6846.00	V	-38.16		
3423.00	Horizontal	-43.46		
5134.50	H	-44.30		
6846.00	H	-36.54		
Middle				
3465.00	Vertical	-47.27	-13.00	Pass
5197.50	V	-45.23		
6930.00	V	-34.77		
3465.00	Horizontal	-48.92		
5197.50	H	-43.41		
6930.00	H	-35.45		
Highest				
3507.00	Vertical	-47.44	-13.00	Pass
5260.50	V	-45.45		
7014.00	V	-37.32		
3507.00	Horizontal	-42.68		
5260.50	H	-43.34		
7014.00	H	-39.45		

Note

1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-47.35	-13.00	Pass
5137.50	V	-45.62		
6850.00	V	-38.54		
3425.00	Horizontal	-43.41		
5137.50	H	-44.45		
6850.00	H	-36.59		
Middle				
3465.00	Vertical	-47.54	-13.00	Pass
5197.50	V	-45.33		
6930.00	V	-34.27		
3465.00	Horizontal	-48.57		
5197.50	H	-43.45		
6930.00	H	-35.34		
Highest				
3505.00	Vertical	-47.44	-13.00	Pass
5257.50	V	-45.94		
7010.00	V	-37.94		
3505.00	Horizontal	-42.37		
5257.50	H	-43.12		
7010.00	H	-39.45		

Note

1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-47.34	-13.00	Pass
5145.00	V	-45.63		
6860.00	V	-38.42		
3430.00	Horizontal	-43.71		
5145.00	H	-44.52		
6860.00	H	-36.38		
Middle				
3465.00	Vertical	-47.71	-13.00	Pass
5197.50	V	-45.12		
6930.00	V	-34.99		
3465.00	Horizontal	-48.98		
5197.50	H	-43.35		
6930.00	H	-35.41		
Highest				
3500.00	Vertical	-45.88	-13.00	Pass
5250.00	V	-37.84		
7000.00	V	-42.55		
3500.00	Horizontal	-43.94		
5250.00	H	-39.38		
7000.00	H	-45.88		

Note

1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-47.33	-13.00	Pass
5152.50	V	-45.71		
6870.00	V	-38.84		
3435.00	Horizontal	-43.44		
5152.50	H	-44.12		
6870.00	H	-36.99		
Middle				
3465.00	Vertical	-47.84	-13.00	Pass
5197.50	V	-45.16		
6930.00	V	-34.33		
3465.00	Horizontal	-48.54		
5197.50	H	-43.16		
6930.00	H	-35.47		
Highest				
3495.00	Vertical	-47.49	-13.00	Pass
5242.50	V	-45.54		
6990.00	V	-37.57		
3495.00	Horizontal	-42.82		
5242.50	H	-43.23		
6990.00	H	-39.94		

Note

1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-47.88	-13.00	Pass
5160.00	V	-45.97		
6880.00	V	-38.42		
3440.00	Horizontal	-43.22		
5160.00	H	-44.12		
6880.00	H	-36.35		
Middle				
3465.00	Vertical	-47.48	-13.00	Pass
5197.50	V	-45.43		
6930.00	V	-34.35		
3465.00	Horizontal	-48.35		
5197.50	H	-43.42		
6930.00	H	-35.12		
Highest				
3490.00	Vertical	-47.19	-13.00	Pass
5235.00	V	-45.94		
6980.00	V	-37.42		
3490.00	Horizontal	-42.48		
5235.00	H	-43.12		
6980.00	H	-39.71		

Note

1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

LTE Band 7 Part:

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5005.00	Vertical	-46.74	-25.00	Pass
7507.50	V	-33.35		
10010.00	V	-39.90		
5005.00	Horizontal	-45.90		
7507.50	H	-34.17		
10010.00	H	-38.21		
Middle				
5070.00	Vertical	-45.10	-25.00	Pass
7605.00	V	-40.26		
10140.00	V	-38.93		
5070.00	Horizontal	-43.70		
7605.00	H	-37.21		
10140.00	H	-37.51		
Highest				
5135.00	Vertical	-45.40	-25.00	Pass
7702.50	V	-33.99		
10270.00	V	-36.89		
5135.00	Horizontal	-46.26		
7702.50	H	-30.54		
10270.00	H	-38.48		

Note

1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5010.00	Vertical	-46.72	-25.00	Pass
7515.00	V	-33.57		
10020.00	V	-39.41		
5010.00	Horizontal	-45.83		
7515.00	H	-34.72		
10020.00	H	-38.83		
Middle				
5070.00	Vertical	-45.56	-25.00	Pass
7605.00	V	-40.47		
10140.00	V	-38.95		
5070.00	Horizontal	-43.42		
7605.00	H	-37.74		
10140.00	H	-37.75		
Highest				
5130.00	Vertical	-45.83	-25.00	Pass
7695.00	V	-33.79		
10260.00	V	-36.41		
5130.00	Horizontal	-46.72		
7695.00	H	-30.61		
10260.00	H	-38.02		

Note

1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5015.00	Vertical	-46.38	-25.00	Pass
7522.50	V	-33.46		
10030.00	V	-39.41		
5015.00	Horizontal	-45.26		
7522.50	H	-34.93		
10030.00	H	-38.24		
Middle				
5070.00	Vertical	-45.27	-25.00	Pass
7605.00	V	-40.21		
10140.00	V	-38.55		
5070.00	Horizontal	-43.49		
7605.00	H	-37.24		
10140.00	H	-37.54		
Highest				
5125.00	Vertical	-45.61	-25.00	Pass
7687.50	V	-33.75		
10250.00	V	-36.26		
5125.00	Horizontal	-46.61		
7687.50	H	-30.57		
10250.00	H	-38.72		

Note

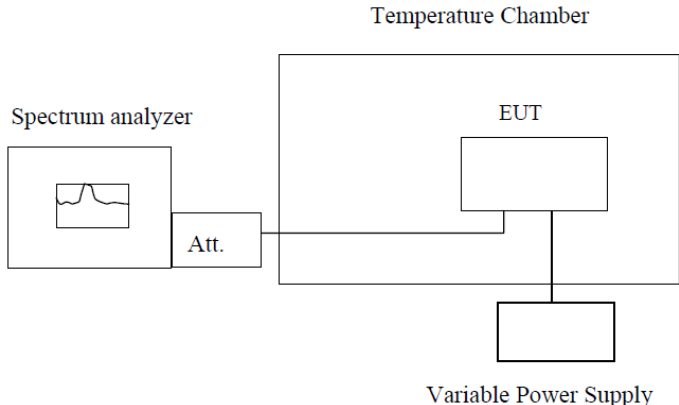
1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5020.00	Vertical	-46.26	-25.00	Pass
7530.00	V	-33.99		
10040.00	V	-39.27		
5020.00	Horizontal	-45.42		
7530.00	H	-34.61		
10040.00	H	-38.83		
Middle				
5070.00	Vertical	-45.72	-25.00	Pass
7605.00	V	-40.56		
10140.00	V	-38.47		
5070.00	Horizontal	-43.78		
7605.00	H	-37.35		
10140.00	H	-37.41		
Highest				
5120.00	Vertical	-45.83	-25.00	Pass
7680.00	V	-33.51		
10240.00	V	-36.89		
5120.00	Horizontal	-46.72		
7680.00	H	-30.57		
10240.00	H	-38.27		

Note

1. The emission levels of below 1 GHz are 20 dB lower than the limit so not show in this report.
2. For above 1 GHz, all test modes were performed, and just the worst case shown in the report.

6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 24.235, Part 27.54, Part 2.1055(a)(1)(b)
Test Method:	FCC Part 2.1055(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 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	194	0.111977	±2.5	Pass
	-20	121	0.069841		
	-10	145	0.083694		
	0	179	0.103319		
	10	158	0.091198		
	20	149	0.086003		
	30	130	0.075036		
	40	105	0.060606		
	50	116	0.066955		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	154	0.088889	±2.5	Pass
	-20	121	0.069841		
	-10	132	0.076190		
	0	172	0.099278		
	10	144	0.083117		
	20	126	0.072727		
	30	148	0.085426		
	40	106	0.061183		
	50	115	0.066378		
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	163	0.094084	±2.5	Pass
	-20	121	0.069841		
	-10	132	0.076190		
	0	126	0.072727		
	10	169	0.097547		
	20	146	0.084271		
	30	106	0.061183		
	40	153	0.088312		
	50	148	0.085426		

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	166	0.095815	±2.5	Pass
	-20	169	0.097547		
	-10	150	0.086580		
	0	130	0.075036		
	10	102	0.058874		
	20	142	0.081962		
	30	146	0.084271		
	40	127	0.073304		
	50	116	0.066955		
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	150	0.086580	±2.5	Pass
	-20	160	0.092352		
	-10	130	0.075036		
	0	136	0.078499		
	10	142	0.081962		
	20	158	0.091198		
	30	169	0.097547		
	40	103	0.059452		
	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	196	0.113131	±2.5	Pass
	-20	121	0.069841		
	-10	163	0.094084		
	0	169	0.097547		
	10	178	0.102742		
	20	142	0.081962		
	30	148	0.085426		
	40	156	0.090043		
	50	106	0.061183		

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	121	0.069841	±2.5	Pass
	-20	148	0.085426		
	-10	142	0.081962		
	0	124	0.071573		
	10	153	0.088312		
	20	136	0.078499		
	30	129	0.074459		
	40	146	0.084271		
	50	107	0.061760		

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	162	0.093506	±2.5	Pass
	-20	121	0.069841		
	-10	136	0.078499		
	0	128	0.073882		
	10	164	0.094661		
	20	158	0.091198		
	30	153	0.088312		
	40	156	0.090043		
	50	147	0.084848		

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

Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	156	0.090043	±2.5	Pass
	-20	160	0.092352		
	-10	130	0.075036		
	0	142	0.081962		
	10	169	0.097547		
	20	121	0.069841		
	30	136	0.078499		
	40	127	0.073304		
	50	116	0.066955		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.80	-30	163	0.094084	±2.5	Pass
	-20	121	0.069841		
	-10	133	0.076768		
	0	142	0.081962		
	10	166	0.095815		
	20	158	0.091198		
	30	153	0.088312		
	40	148	0.085426		
	50	107	0.061760		
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	153	0.088312	±2.5	Pass
	-20	121	0.069841		
	-10	142	0.081962		
	0	146	0.084271		
	10	126	0.072727		
	20	131	0.075613		
	30	134	0.077345		
	40	103	0.059452		
	50	114	0.065801		
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	163	0.094084	±2.5	Pass
	-20	121	0.069841		
	-10	128	0.073882		
	0	142	0.081962		
	10	148	0.085426		
	20	153	0.088312		
	30	106	0.061183		
	40	117	0.067532		
	50	99	0.057143		

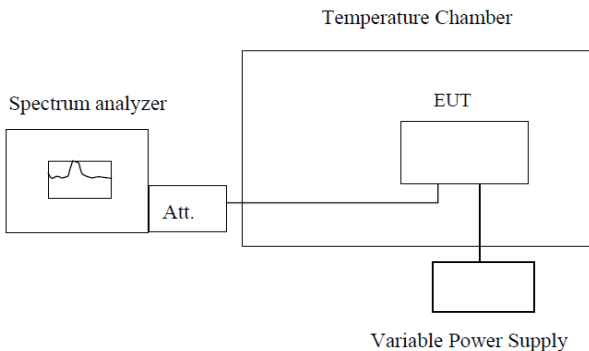
LTE Band 7(QPSK):

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	196	0.077318	±2.5	Pass
	-20	121	0.047732		
	-10	134	0.052860		
	0	118	0.046548		
	10	128	0.050493		
	20	142	0.056016		
	30	145	0.057199		
	40	158	0.062327		
	50	167	0.065878		
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	153	0.060355	±2.5	Pass
	-20	121	0.047732		
	-10	128	0.050493		
	0	158	0.062327		
	10	142	0.056016		
	20	140	0.055227		
	30	116	0.045759		
	40	107	0.042209		
	50	101	0.039842		
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	153	0.060355	±2.5	Pass
	-20	121	0.047732		
	-10	134	0.052860		
	0	132	0.052071		
	10	118	0.046548		
	20	112	0.044181		
	30	106	0.041815		
	40	142	0.056016		
	50	144	0.056805		
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	196	0.077318	±2.5	Pass
	-20	121	0.047732		
	-10	126	0.049704		
	0	164	0.064694		
	10	175	0.069034		
	20	148	0.058383		
	30	178	0.070217		
	40	131	0.051677		
	50	140	0.055227		

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	163	0.064300	±2.5	Pass
	-20	121	0.047732		
	-10	132	0.052071		
	0	124	0.048915		
	10	128	0.050493		
	20	142	0.056016		
	30	146	0.057594		
	40	105	0.041420		
	50	107	0.042209		
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	144	0.056805		
	-10	158	0.062327		
	0	130	0.051282		
	10	128	0.050493		
	20	164	0.064694		
	30	139	0.054832		
	40	103	0.040631		
	50	114	0.044970		
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	153	0.060355	2.5	Pass
	-20	130	0.051282		
	-10	134	0.052860		
	0	142	0.056016		
	10	138	0.054438		
	20	121	0.047732		
	30	126	0.049704		
	40	158	0.062327		
	50	127	0.050099		
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	154	0.060750	2.5	Pass
	-20	121	0.047732		
	-10	128	0.050493		
	0	142	0.056016		
	10	146	0.057594		
	20	114	0.044970		
	30	102	0.040237		
	40	107	0.042209		
	50	158	0.062327		

6.13 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 24.235, Part 27.54, Part 2.1055(d)(2)
Test Method:	FCC Part 2.1055(d)(1)(2)
Limit:	$\pm 2.5\text{ppm}$
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 4(QPSK):

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.37	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 (°C)	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 (°C)	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 (°C)	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 (°C)	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 (°C)	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	83	0.047908	±2.5	Pass
	3.80	62	0.035786		
	3.23	72	0.041558		
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	78	0.045022	±2.5	Pass
	3.80	43	0.024820		
	3.23	69	0.039827		
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	86	0.049639	±2.5	Pass
	3.80	88	0.050794		
	3.23	63	0.036364		
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	78	0.045022	±2.5	Pass
	3.80	89	0.051371		
	3.23	43	0.024820		
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	64	0.036941	±2.5	Pass
	3.80	80	0.046176		
	3.23	46	0.026551		
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	88	0.050794	±2.5	Pass
	3.80	72	0.041558		
	3.23	78	0.045022		

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	64	0.0252465	±2.5	Pass
	3.80	89	0.0351085		
	3.23	86	0.0339250		
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	72	0.0284024	±2.5	Pass
	3.80	66	0.0260355		
	3.23	78	0.0307692		
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	91	0.0358974	±2.5	Pass
	3.80	82	0.0323471		
	3.23	44	0.0173570		
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	88	0.0347140	±2.5	Pass
	3.80	63	0.0248521		
	3.23	78	0.0307692		

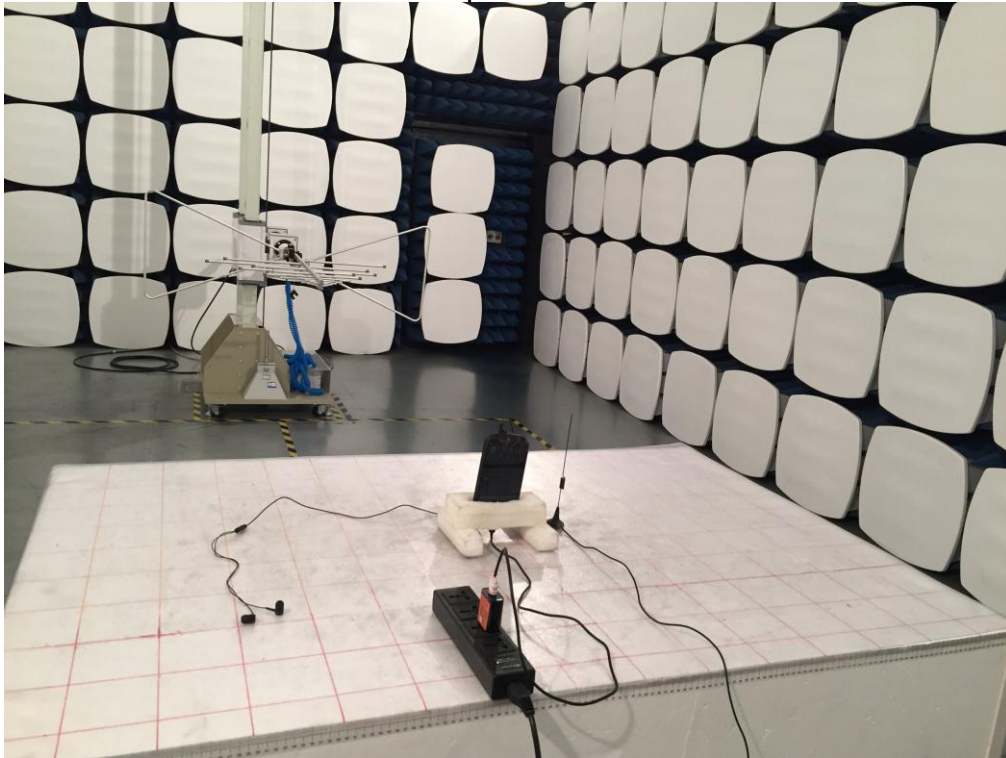
LTE Band 7(16QAM):

LTE Band 7(15MHz)

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	93	0.0366864	±2.5	Pass
	3.80	66	0.0260355		
	3.23	72	0.0284024		
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	82	0.0323471	±2.5	Pass
	3.80	46	0.0181460		
	3.23	88	0.0347140		
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	86	0.0339250	±2.5	Pass
	3.80	43	0.0169625		
	3.23	88	0.0347140		
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	88	0.0347140	±2.5	Pass
	3.80	63	0.0248521		
	3.23	79	0.0311637		

7 Test Setup Photo

Radiated Spurious Emission



8 EUT Constructional Details

Reference to the test report No. CCISE170903901.

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