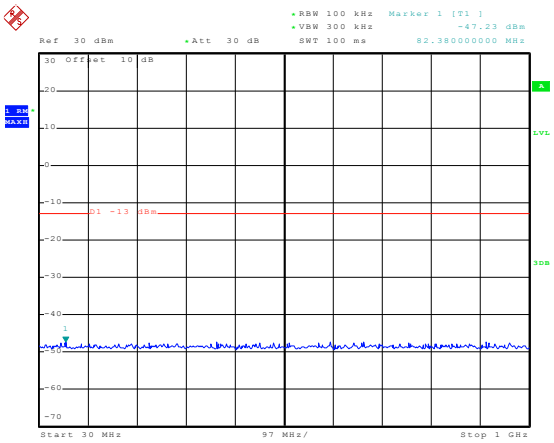
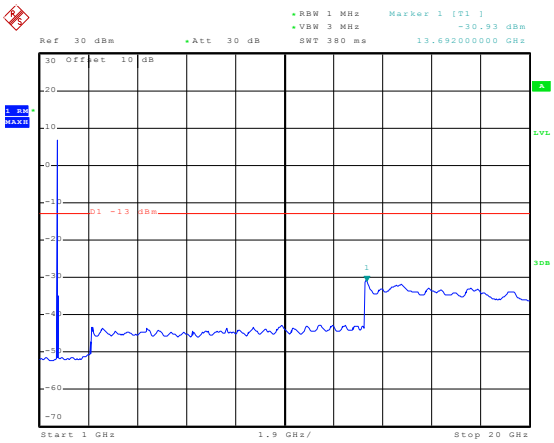
20MHz

Test Mode:	LTE band 4(20MHz 16QAM) RB Size 1 & RB Offset 99	Test Channel:	Lowest channel



Date: 16.JAN.2015 14:44:16

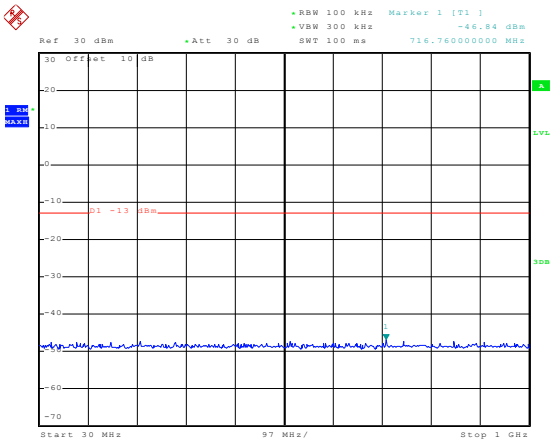
30MHz~1GHz



Date: 16.JAN.2015 14:43:01

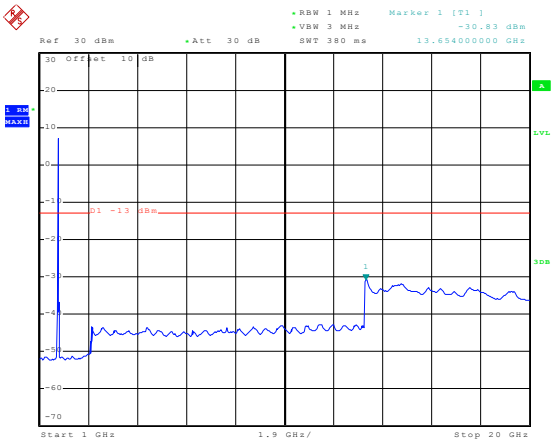
1GHz~20GHz

Test Mode:	LTE band 4(20MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 14:46:06

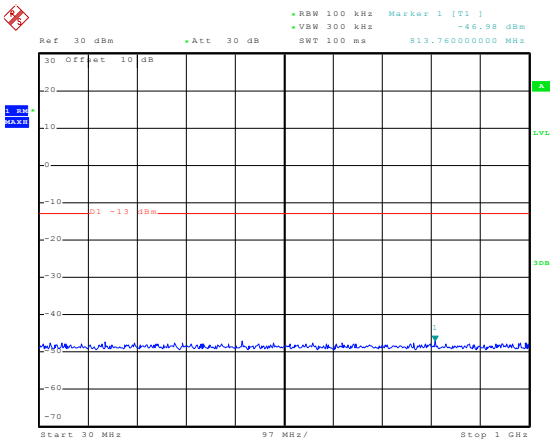
30MHz~1GHz



Date: 16.JAN.2015 14:47:26

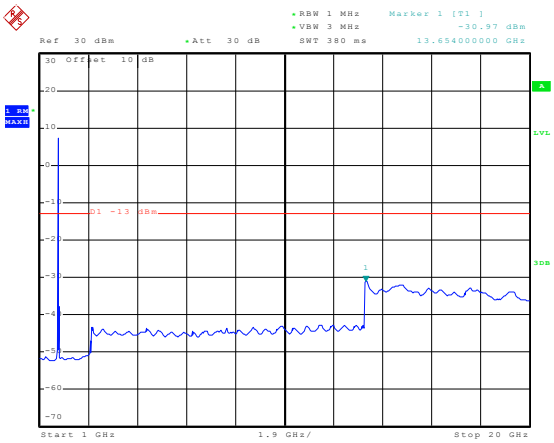
1GHz~20GHz

Test Mode:	LTE band 4(20MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 14:50:38

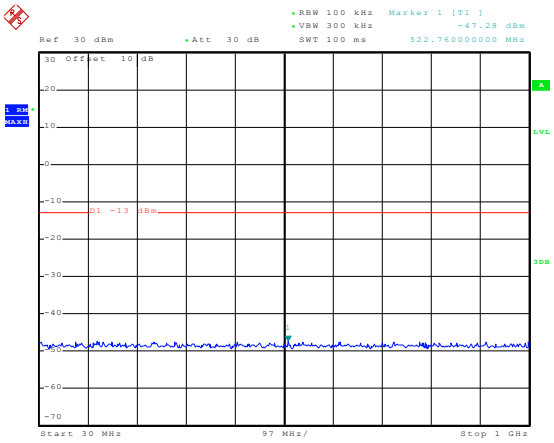
30MHz~1GHz



Date: 16.JAN.2015 14:50:18

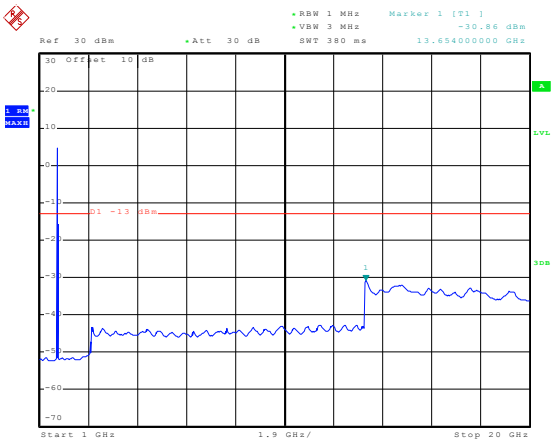
1GHz~20GHz

Test Mode:	LTE band 4(20MHz 16QAM) RB Size 50 & RB Offset 49	Test Channel:	Lowest channel



Date: 16.JAN.2015 14:44:06

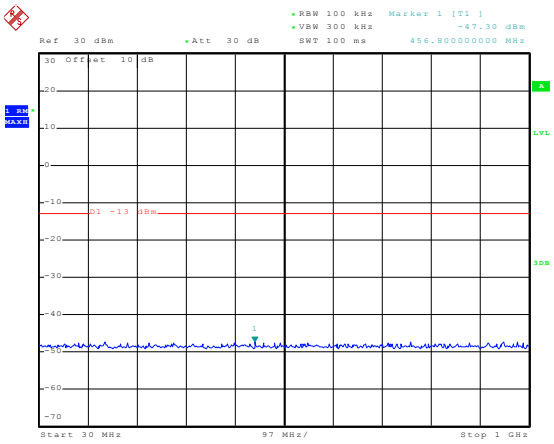
30MHz~1GHz



Date: 16.JAN.2015 14:43:17

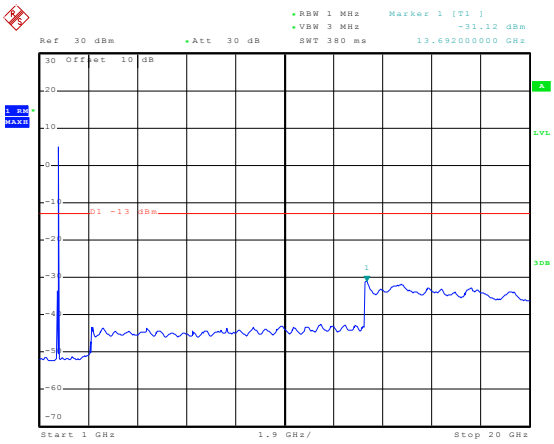
1GHz~20GHz

Test Mode:	LTE band 4(20MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 14:45:56

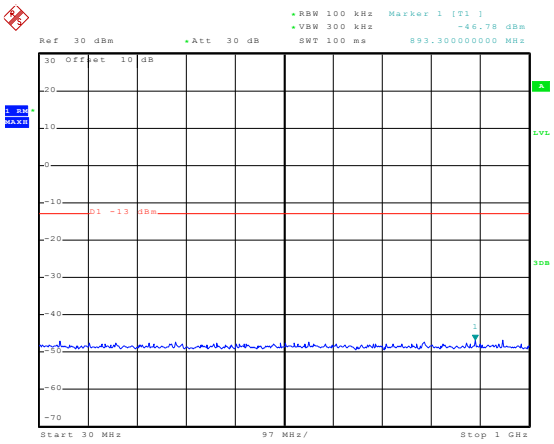
30MHz~1GHz



Date: 16.JAN.2015 14:47:43

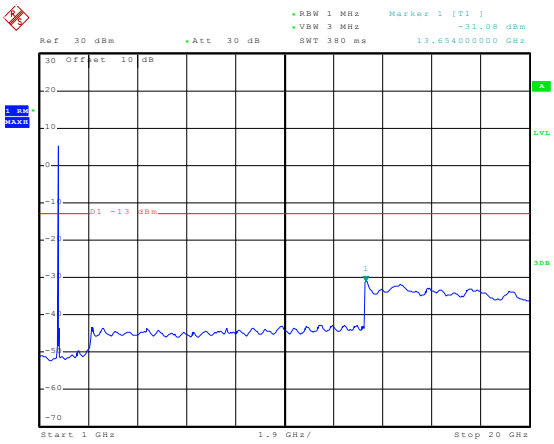
1GHz~20GHz

Test Mode:	LTE band 4(20MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 14:50:49

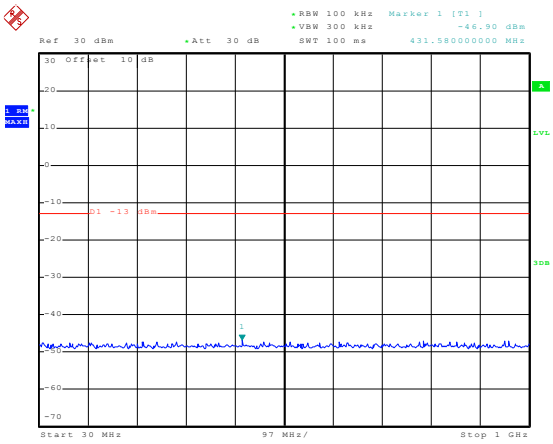
30MHz~1GHz



Date: 16.JAN.2015 14:48:41

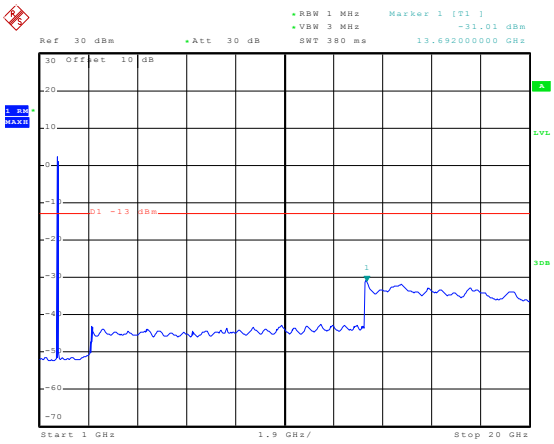
1GHz~20GHz

Test Mode:	LTE band 4(20MHz 16QAM) RB Size 100 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 14:43:56

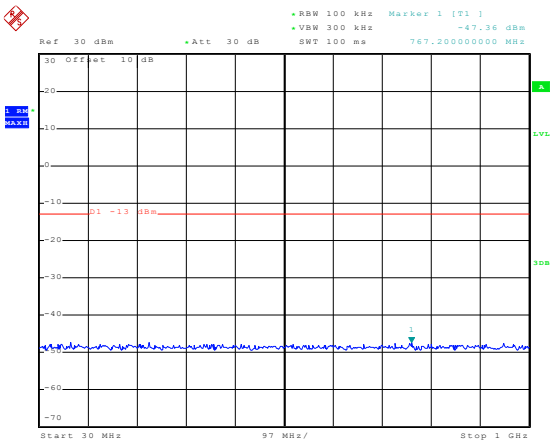
30MHz~1GHz



Date: 16.JAN.2015 14:43:33

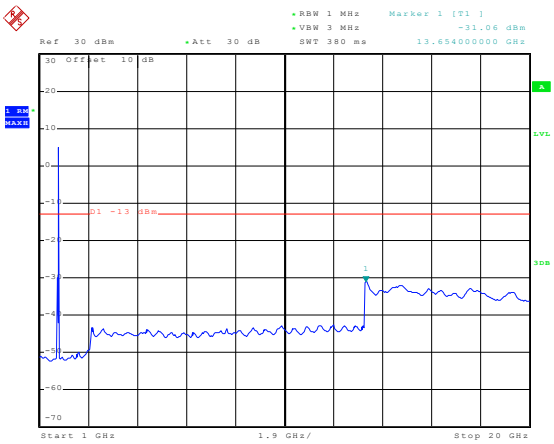
1GHz~20GHz

Test Mode:	LTE band 4(20MHz 16QAM) RB Size 100 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 14:45:44

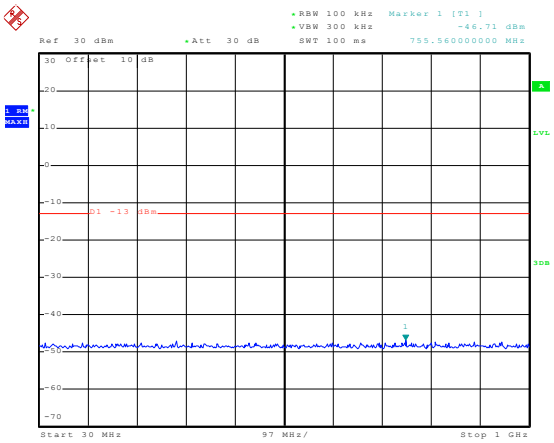
30MHz~1GHz



Date: 16.JAN.2015 14:48:00

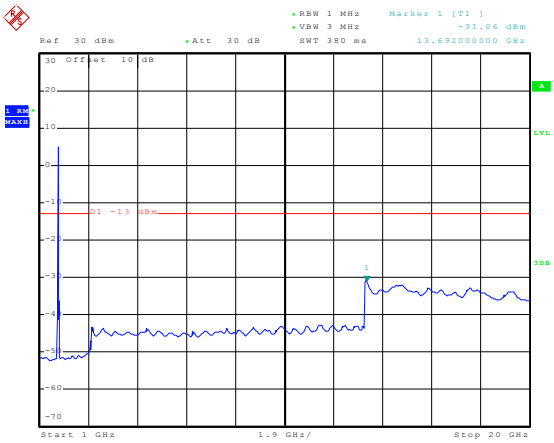
1GHz~20GHz

Test Mode:	LTE band 4(20MHz 16QAM) RB Size 100 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 14:51:04

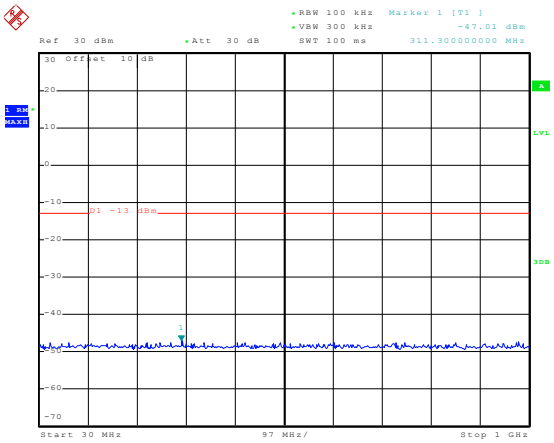
30MHz~1GHz



Date: 16.JAN.2015 14:48:25

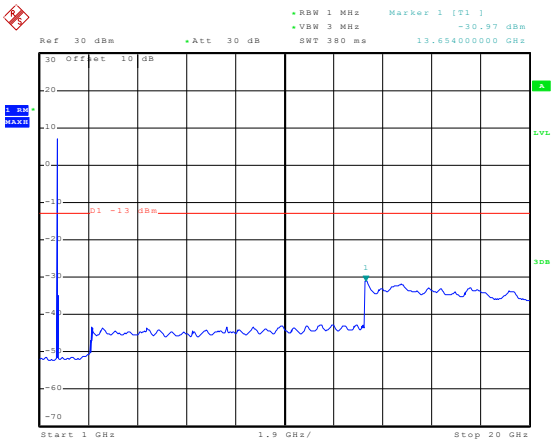
1GHz~20GHz

Test Mode:	LTE band 4(20MHz QPSK) RB Size 1 & RB Offset 99	Test Channel:	Lowest channel



Date: 16.JAN.2015 14:44:26

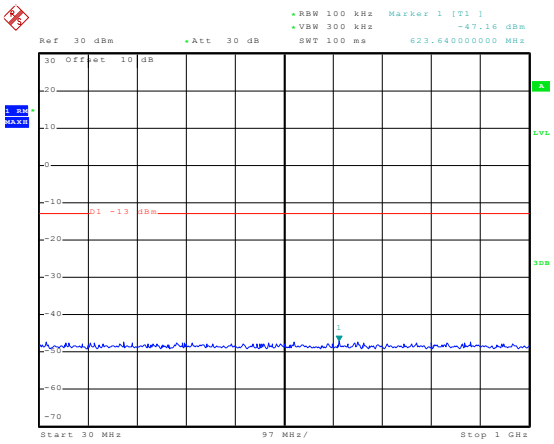
30MHz~1GHz



Date: 16.JAN.2015 14:42:08

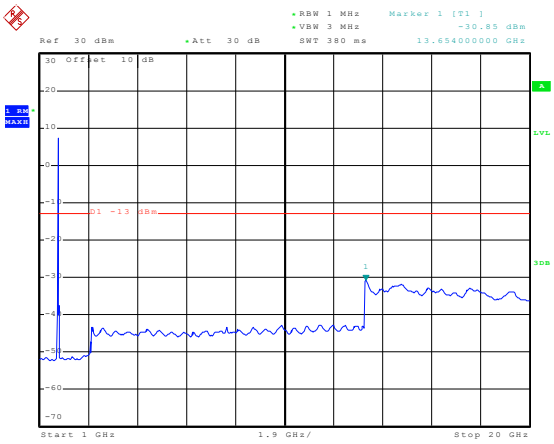
1GHz~20GHz

Test Mode:	LTE band 4(20MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 14:45:11

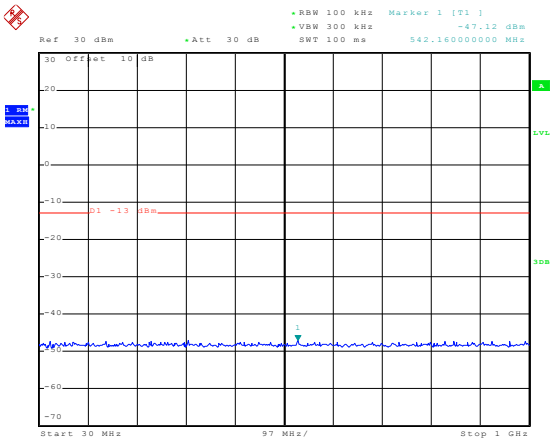
30MHz~1GHz



Date: 16.JAN.2015 14:46:33

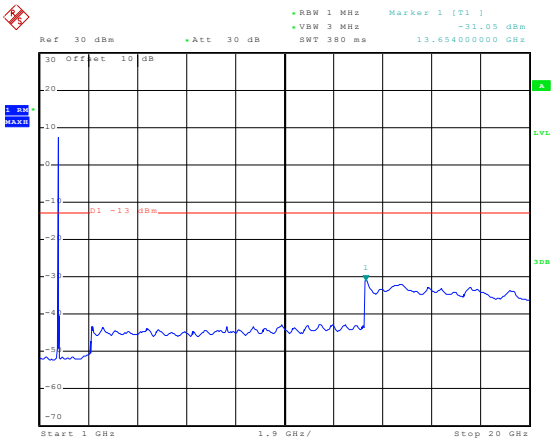
1GHz~20GHz

Test Mode:	LTE band 4(20MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 14:51:51

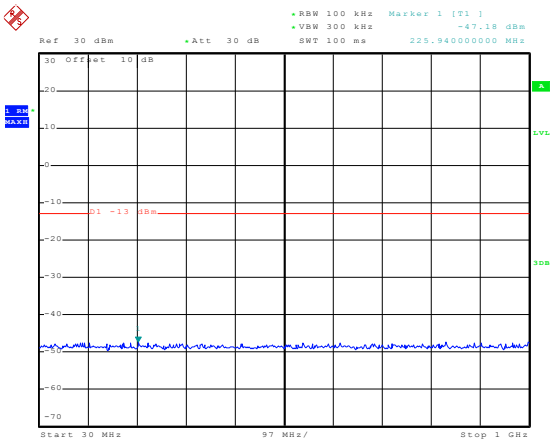
30MHz~1GHz



Date: 16.JAN.2015 14:49:12

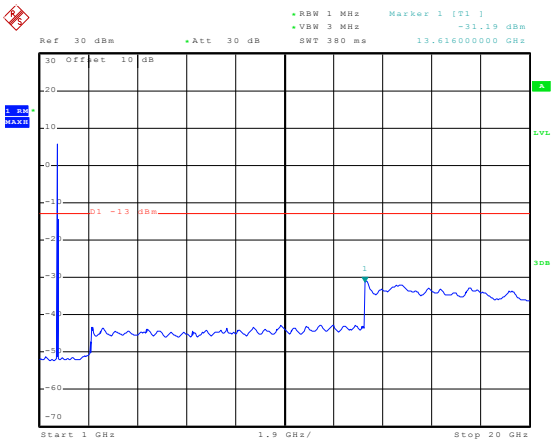
1GHz~20GHz

Test Mode:	LTE band 4 (20MHz QPSK) RB Size 50 & RB Offset 49	Test Channel:	Lowest channel



Date: 16.JAN.2015 14:44:35

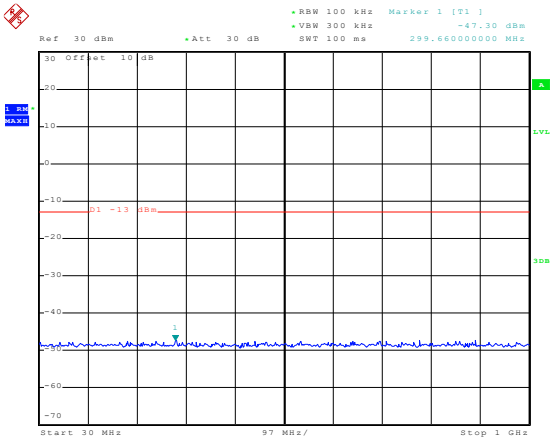
30MHz~1GHz



Date: 16.JAN.2015 14:42:26

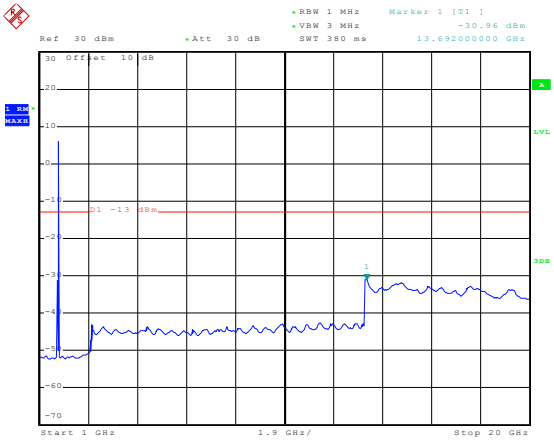
1GHz~20GHz

Test Mode:	LTE band 4 (20MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 14:45:21

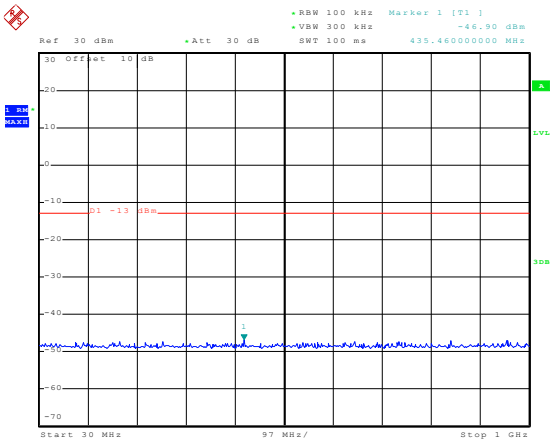
30MHz~1GHz



Date: 16.JAN.2015 14:46:54

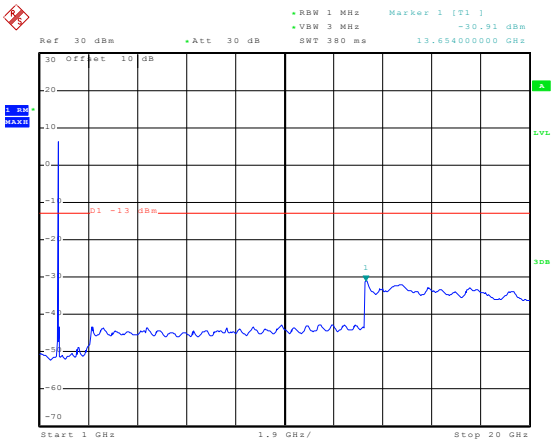
1GHz~20GHz

Test Mode:	LTE band 4(20MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 14:51:27

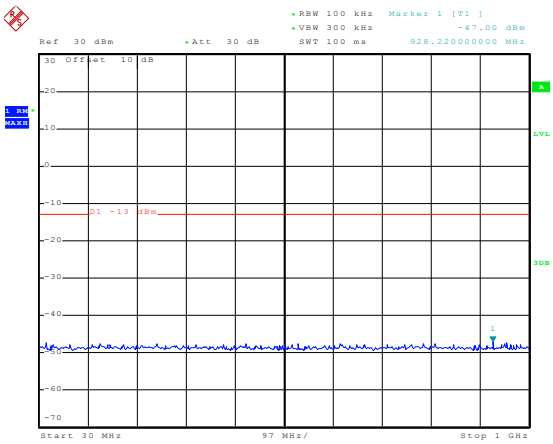
30MHz~1GHz



Date: 16.JAN.2015 14:49:31

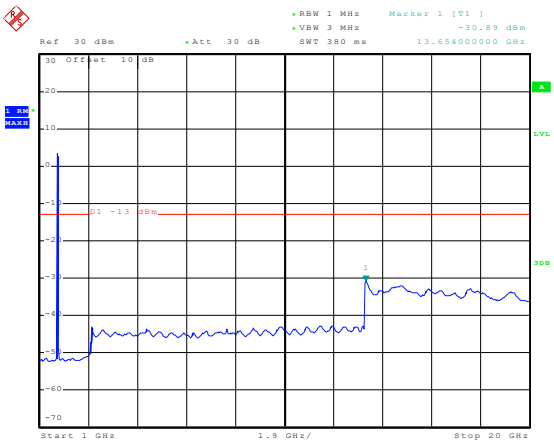
1GHz~20GHz

Test Mode:	LTE band 4(20MHz QPSK) RB Size 100 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 14:44:43

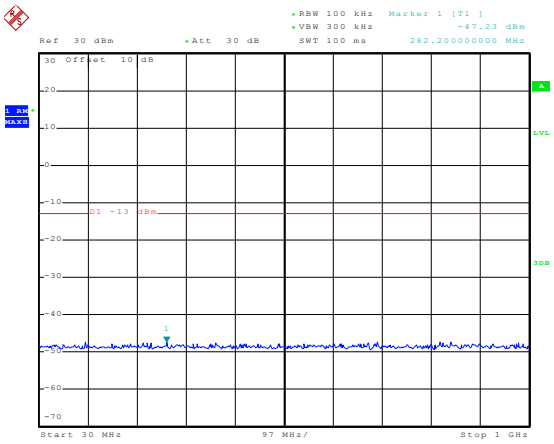
30MHz~1GHz



Date: 16.JAN.2015 14:42:41

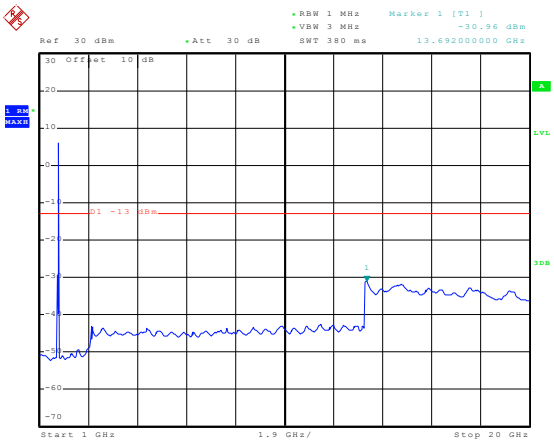
1GHz~27GHz

Test Mode:	LTE band 4(20MHz QPSK) RB Size 100 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 14:45:31

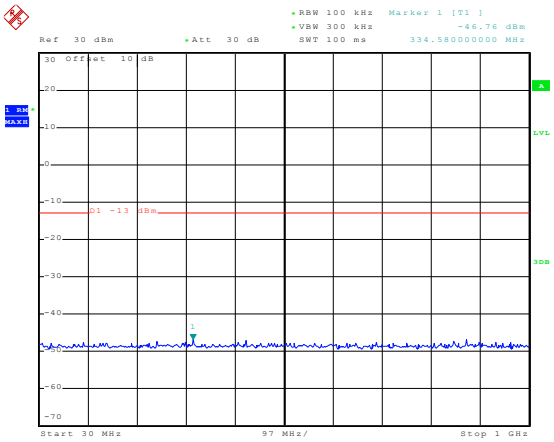
30MHz~1GHz



Date: 16.JAN.2015 14:47:11

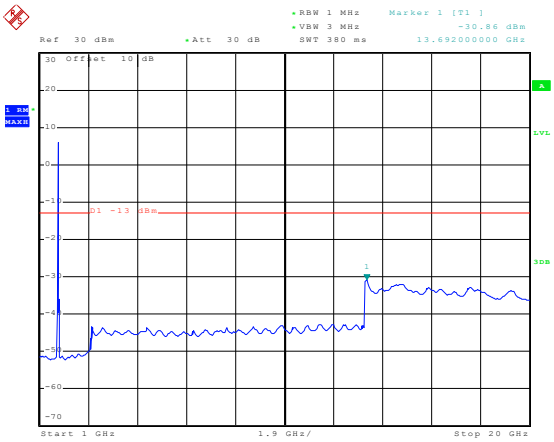
1GHz~20GHz

Test Mode:	LTE band 4(20MHz QPSK) RB Size 100 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 14:51:15

30MHz~1GHz



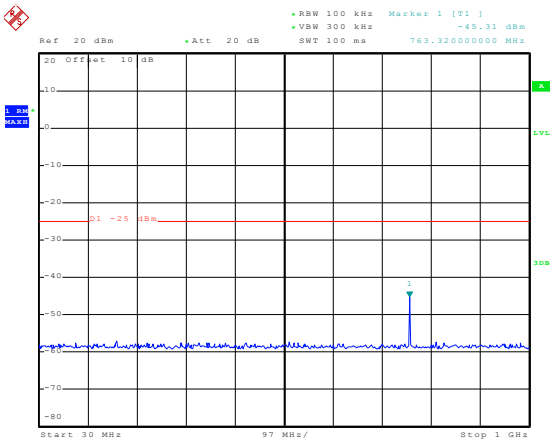
Date: 16.JAN.2015 14:49:50

1GHz~20GHz

LTE band 7 part:

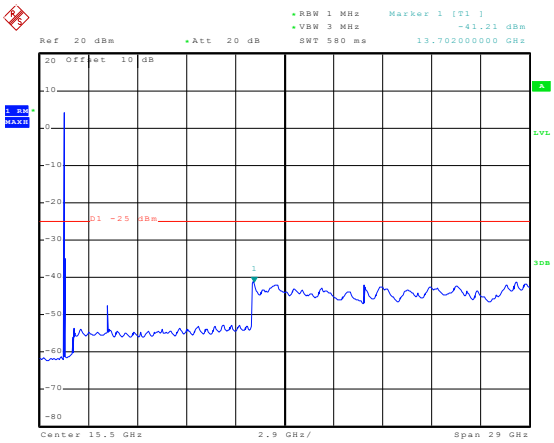
5MHz:

Test Mode:	LTE band 7(5MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 15:40:21

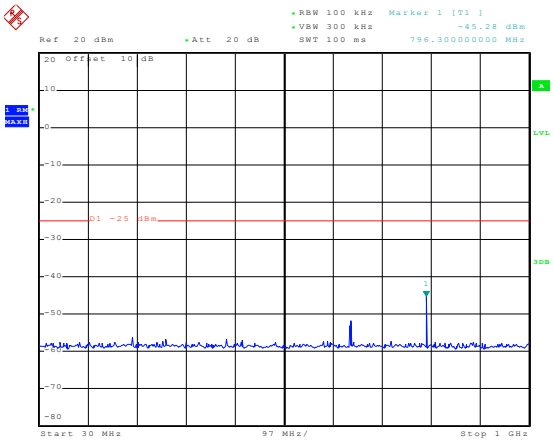
30MHz~1GHz



Date: 16.JAN.2015 15:24:27

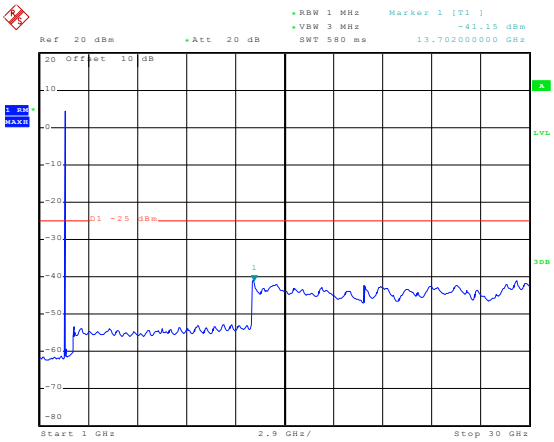
1GHz~30GHz

Test Mode:	LTE band 7(5MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 15:38:53

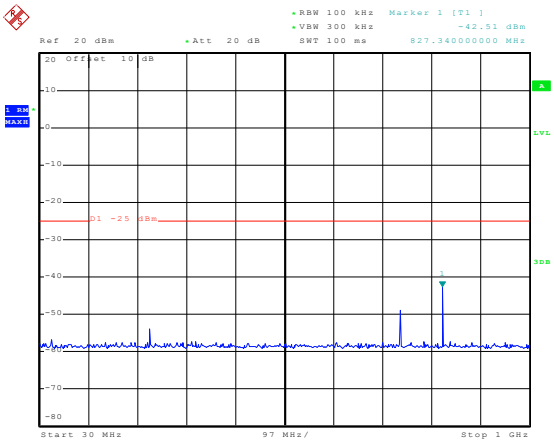
30MHz~1GHz



Date: 16.JAN.2015 15:30:39

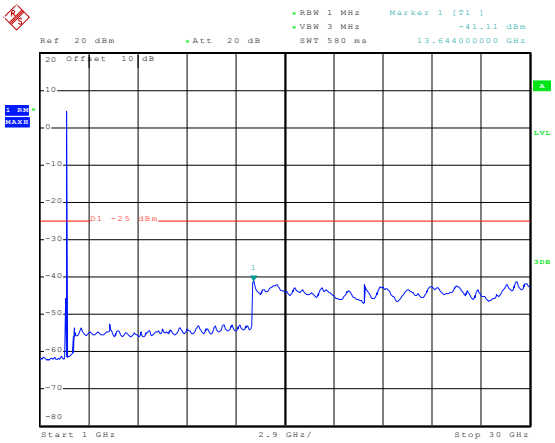
1GHz~30GHz

Test Mode:	LTE band 7(5MHz 16QAM) RB Size 1 & RB Offset 24	Test Channel:	Highest channel



Date: 16.JAN.2015 15:35:41

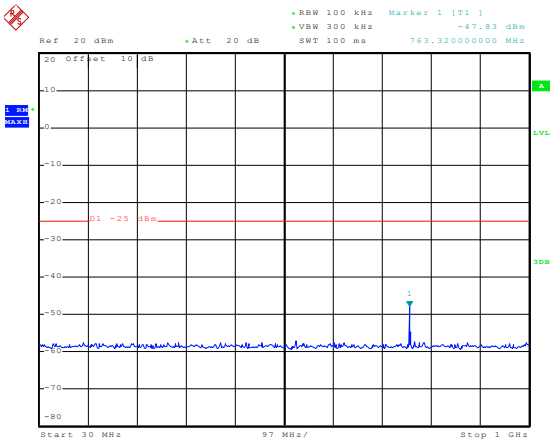
30MHz~1GHz



Date: 16.JAN.2015 15:33:30

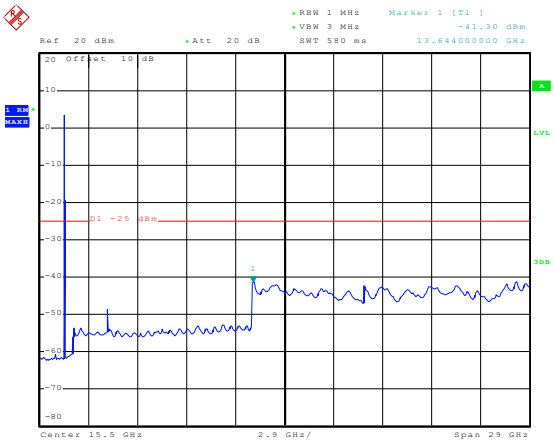
1GHz~30GHz

Test Mode:	LTE band 7(5MHz 16QAM) RB Size 12 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 15:40:35

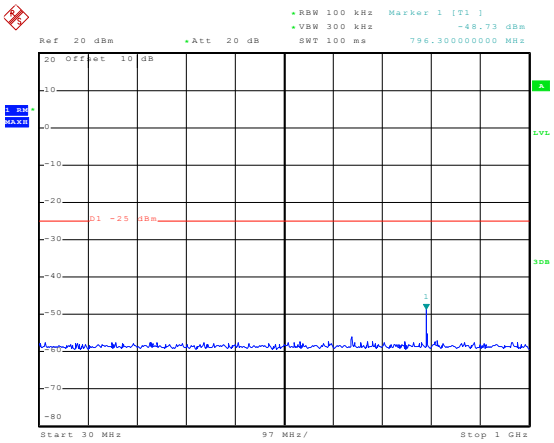
30MHz~1GHz



Date: 16.JAN.2015 15:24:41

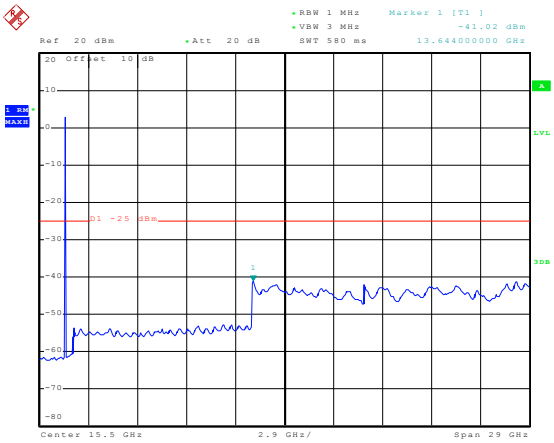
1GHz~30GHz

Test Mode:	LTE band 7(5MHz 16QAM) RB Size 12 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 15:39:07

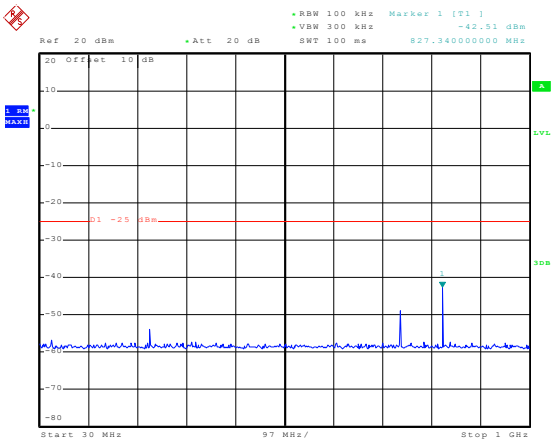
30MHz~1GHz



Date: 16.JAN.2015 15:25:46

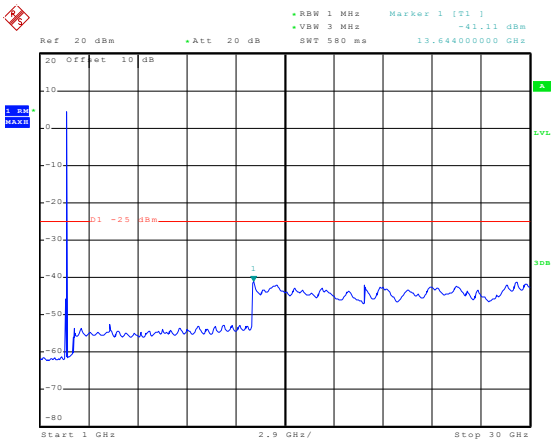
1GHz~30GHz

Test Mode:	LTE band 7(5MHz 16QAM) RB Size 12 & RB Offset 11	Test Channel:	Highest channel



Date: 16.JAN.2015 15:35:41

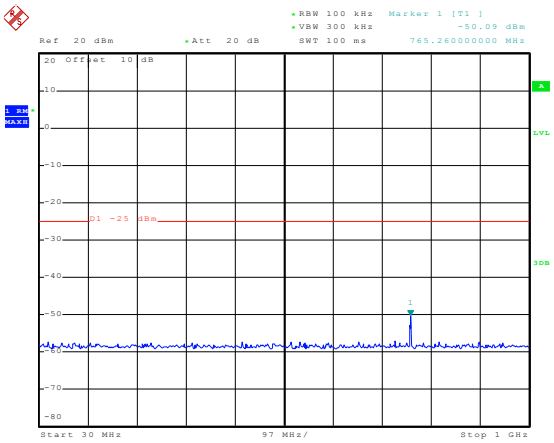
30MHz~1GHz



Date: 16.JAN.2015 15:33:30

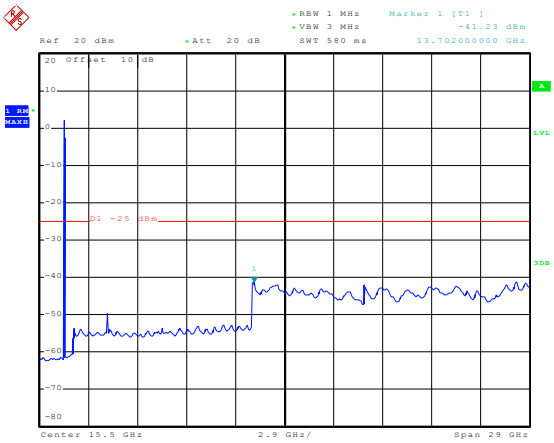
1GHz~30GHz

Test Mode:	LTE band 7(5MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 15:40:48

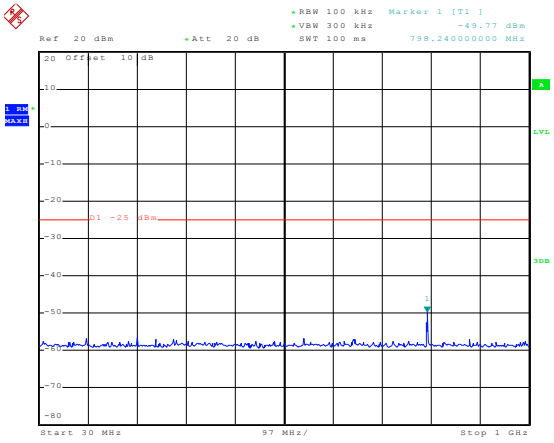
30MHz~1GHz



Date: 16.JAN.2015 15:24:54

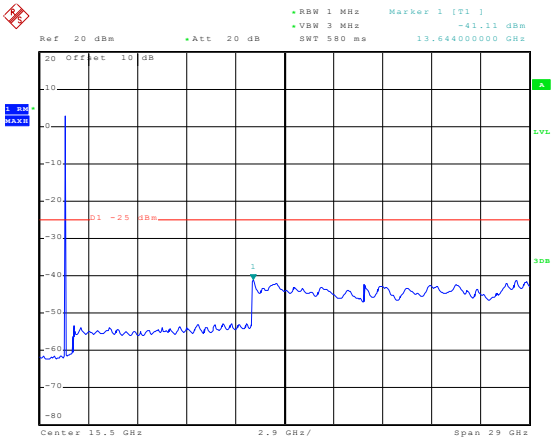
1GHz~30GHz

Test Mode:	LTE band 7(5MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 15:39:21

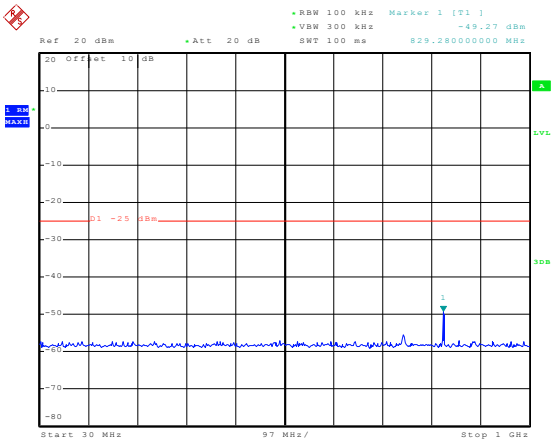
30MHz~1GHz



Date: 16.JAN.2015 15:25:29

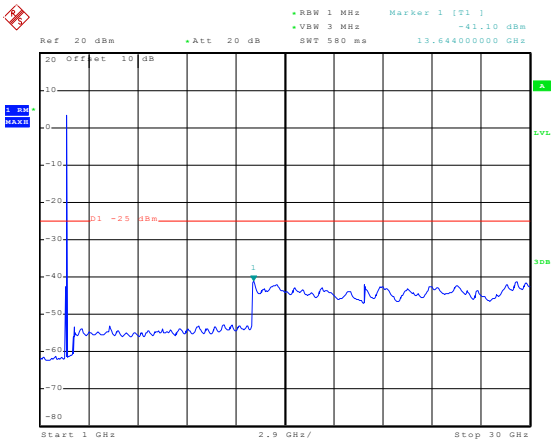
1GHz~30GHz

Test Mode:	LTE band 7(5MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 15:35:04

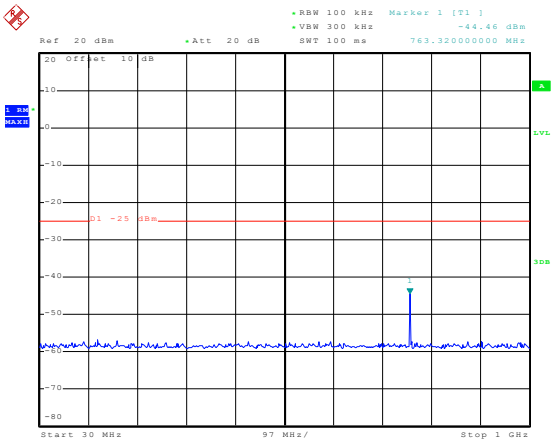
30MHz~1GHz



Date: 16.JAN.2015 15:34:06

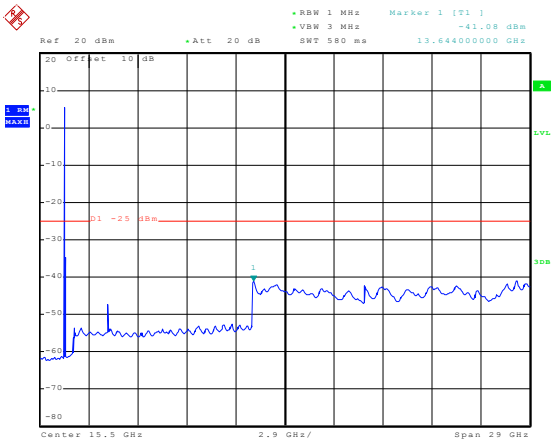
1GHz~30GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 15:39:43

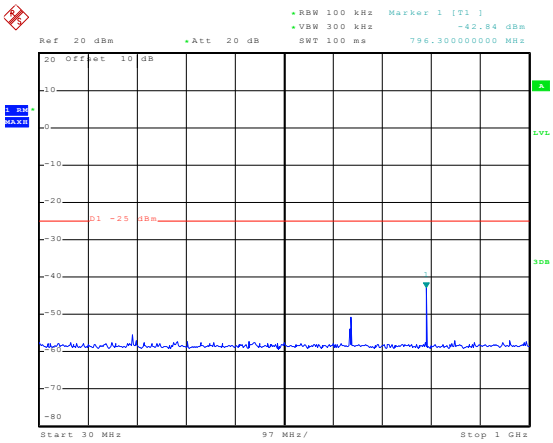
30MHz~1GHz



Date: 16.JAN.2015 15:23:43

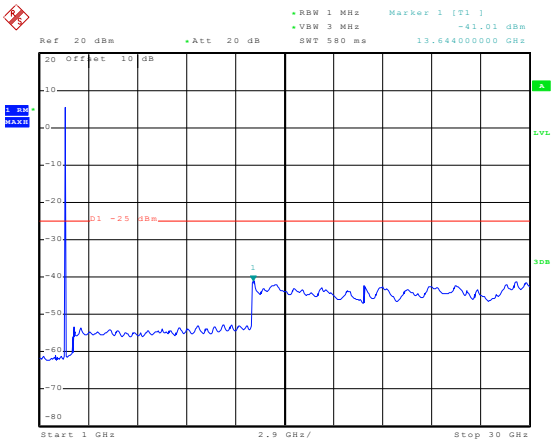
1GHz~30GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 15:38:07

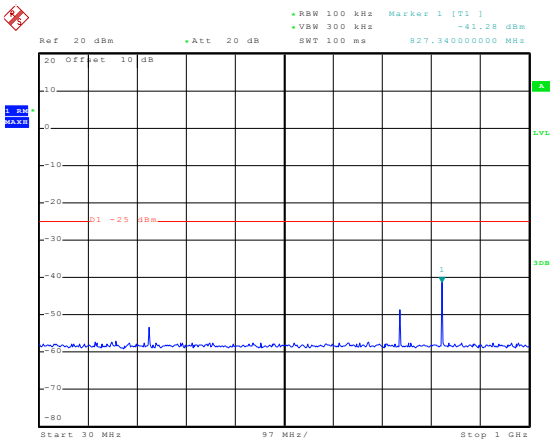
30MHz~1GHz



Date: 16.JAN.2015 15:30:58

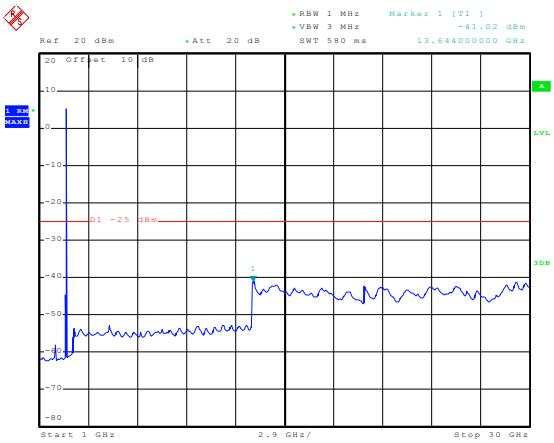
1GHz~30GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 1 & RB Offset 24	Test Channel:	Highest channel



Date: 16.JAN.2015 15:36:03

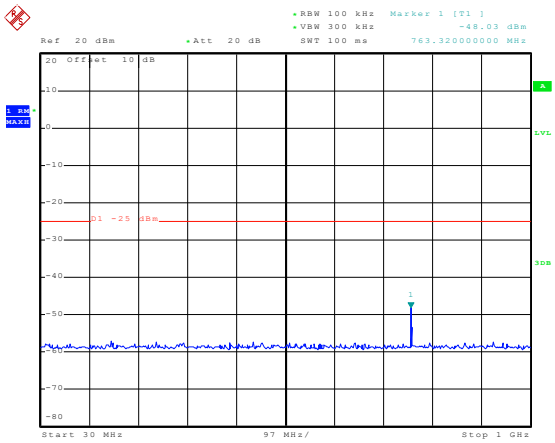
30MHz~1GHz



Date: 16.JAN.2015 15:32:45

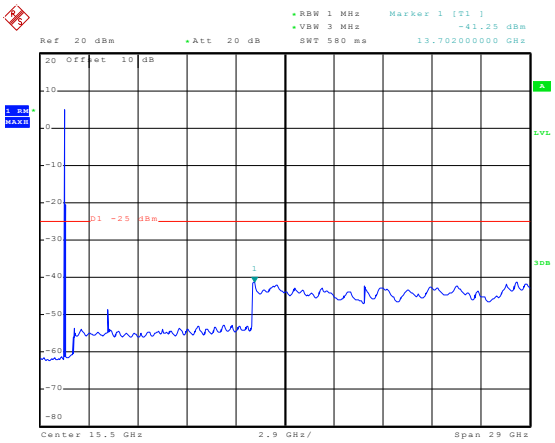
1GHz~30GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 12 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 15:39:55

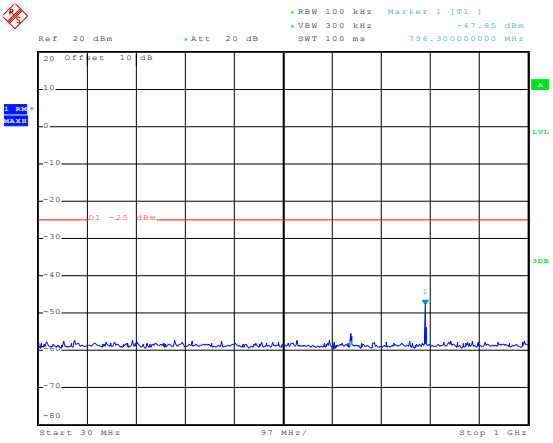
30MHz~1GHz



Date: 16.JAN.2015 15:24:00

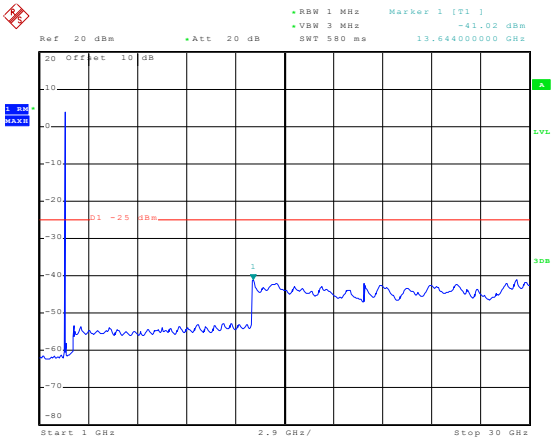
1GHz~30GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 12 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 15:38:20

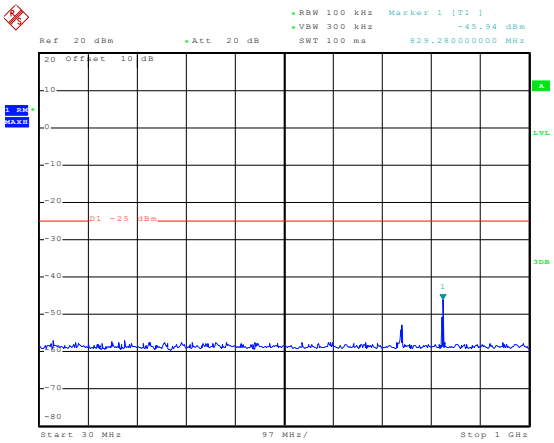
30MHz~1GHz



Date: 16.JAN.2015 15:31:18

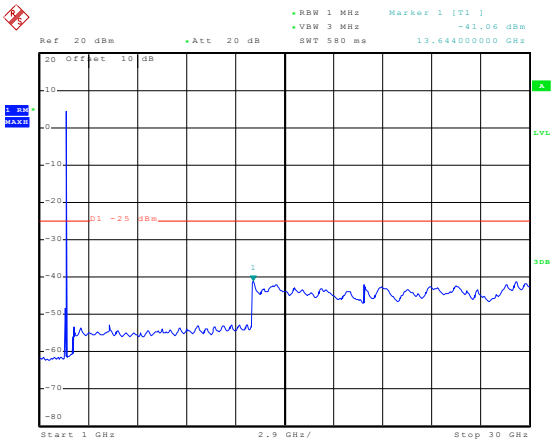
1GHz~30GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 12 & RB Offset 11	Test Channel:	Highest channel



Date: 16.JAN.2015 15:36:16

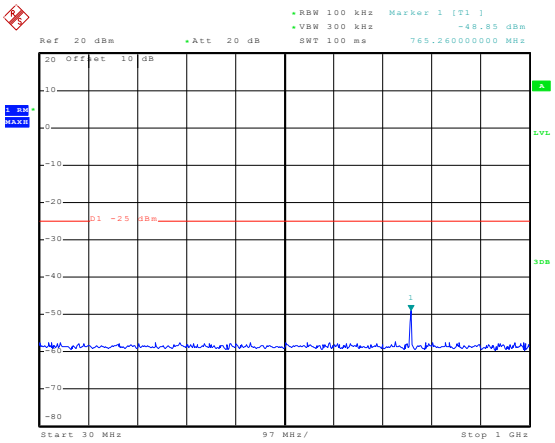
30MHz~1GHz



Date: 16.JAN.2015 15:33:03

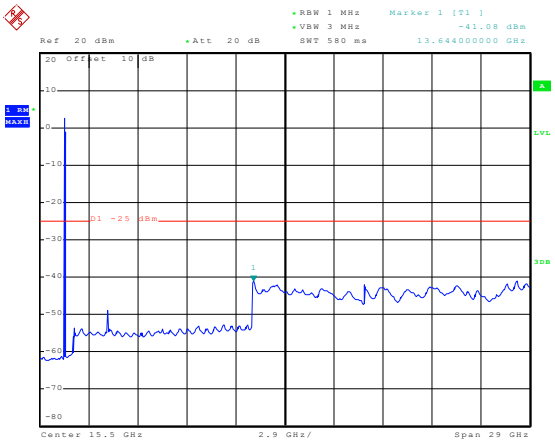
1GHz~30GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 15:40:07

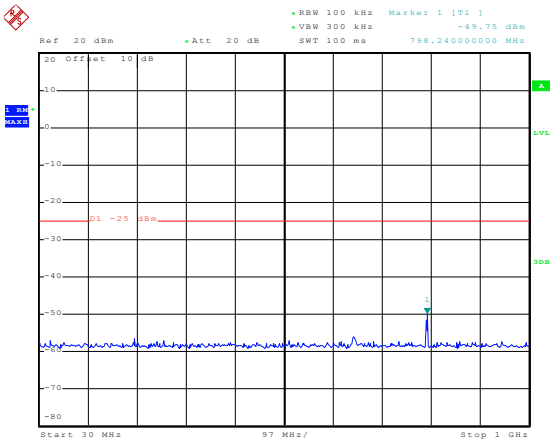
30MHz~1GHz



Date: 16.JAN.2015 15:24:12

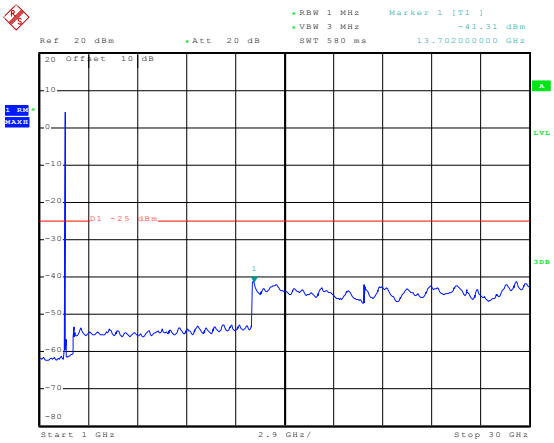
1GHz~27GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 15:38:38

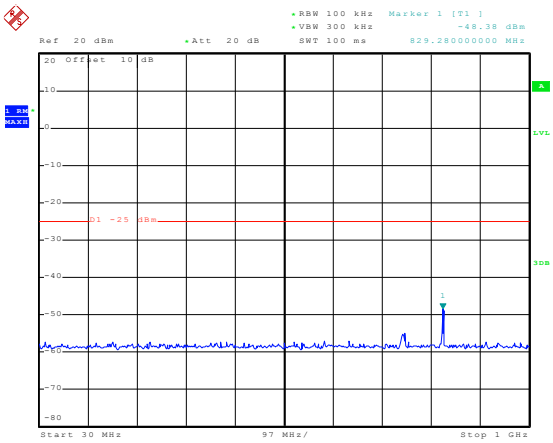
30MHz~1GHz



Date: 16.JAN.2015 15:31:34

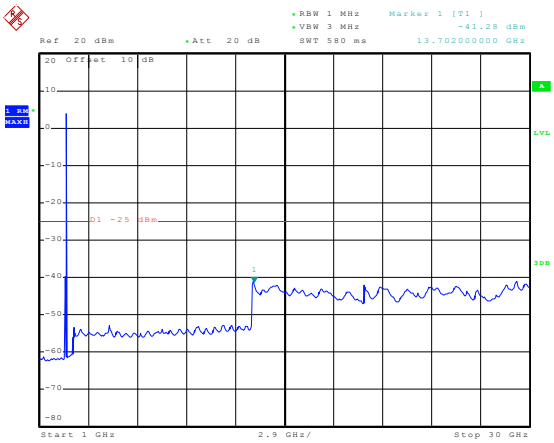
1GHz~30GHz

Test Mode:	LTE band 7(5MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 15:36:29

30MHz~1GHz

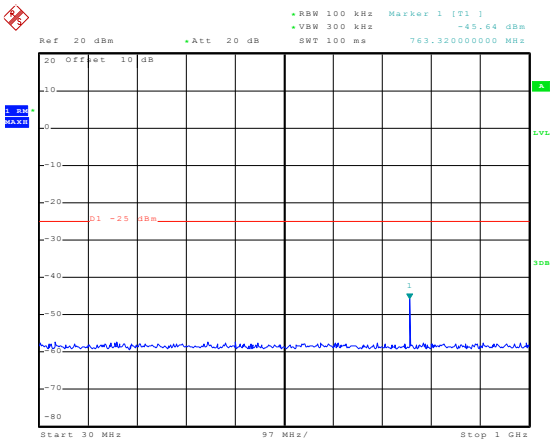


Date: 16.JAN.2015 15:33:15

1GHz~30GHz

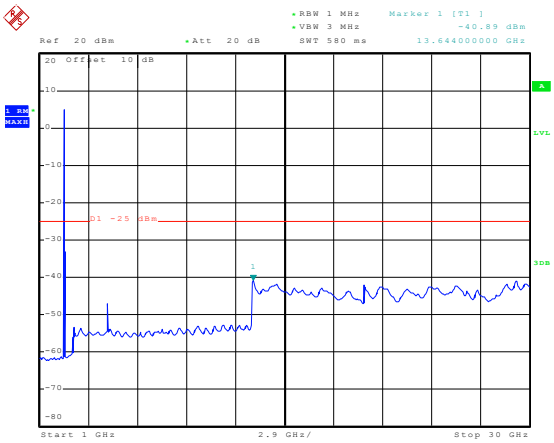
10MHz:

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 15:42:32

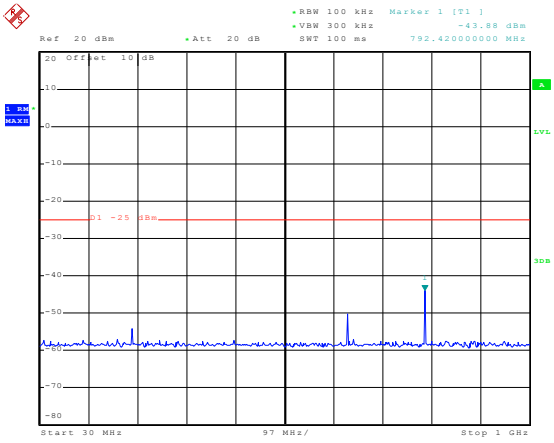
30MHz~1GHz



Date: 16.JAN.2015 15:53:11

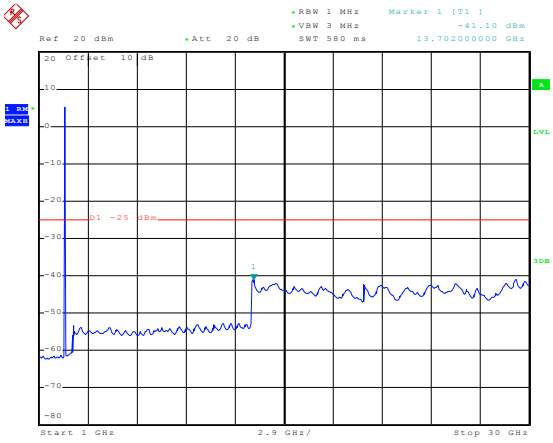
1GHz~30GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 15:44:31

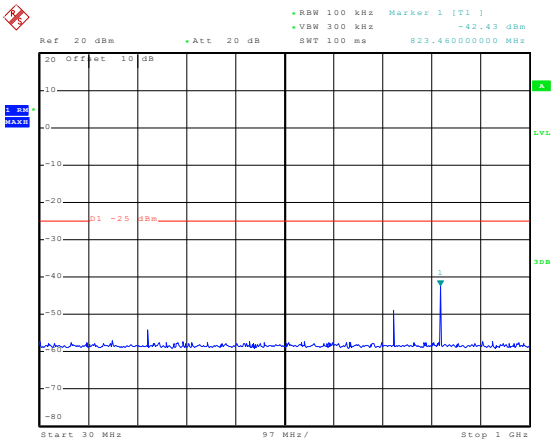
30MHz~1GHz



Date: 16.JAN.2015 15:51:35

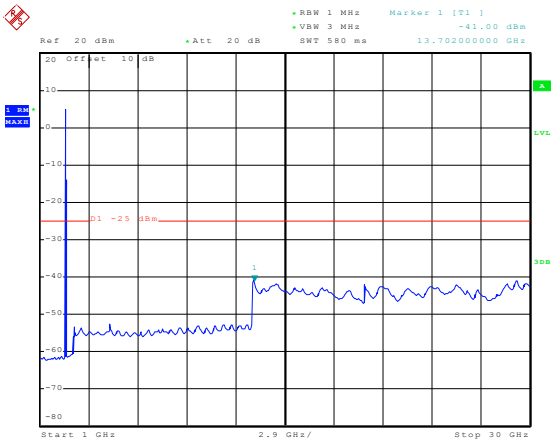
1GHz~30GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 1 & RB Offset 49	Test Channel:	Highest channel



Date: 16.JAN.2015 15:46:03

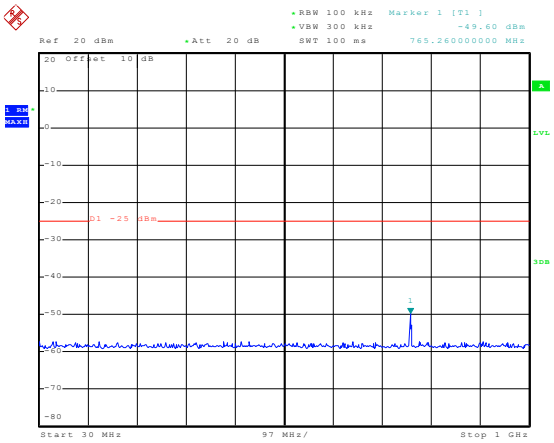
30MHz~1GHz



Date: 16.JAN.2015 15:48:59

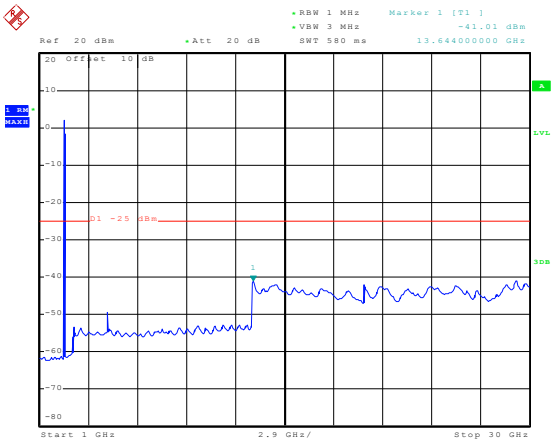
1GHz~30GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 15:42:48

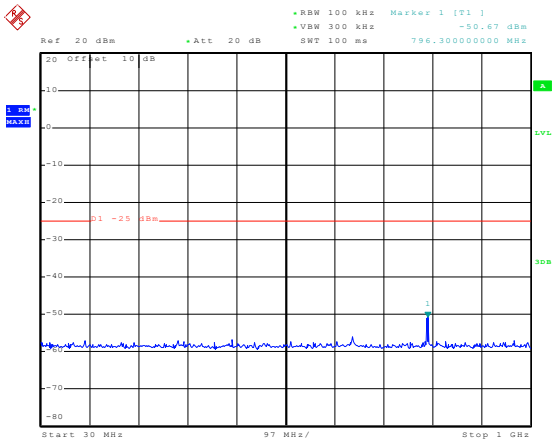
30MHz~1GHz



Date: 16.JAN.2015 15:53:35

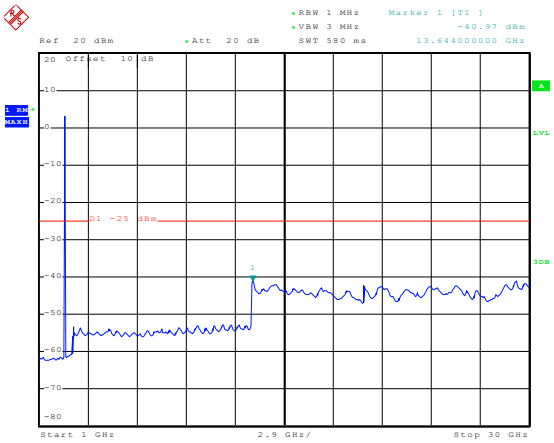
1GHz~30GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 25 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 15:44:46

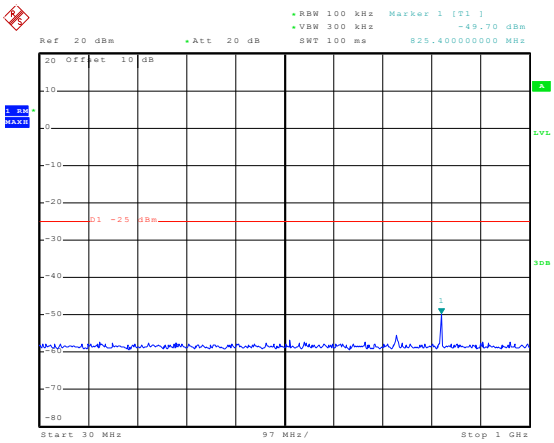
30MHz~1GHz



Date: 16.JAN.2015 15:51:50

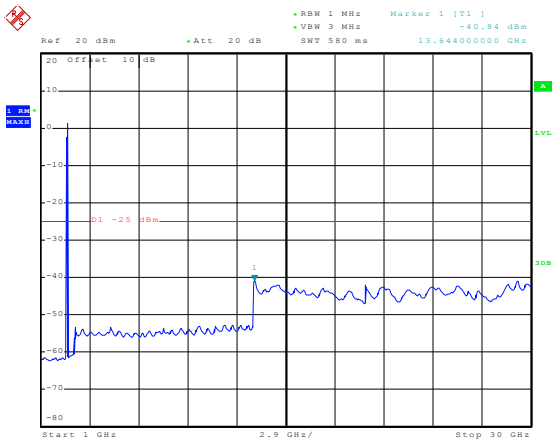
1GHz~30GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 25 & RB Offset 24	Test Channel:	Highest channel



Date: 16.JAN.2015 15:46:19

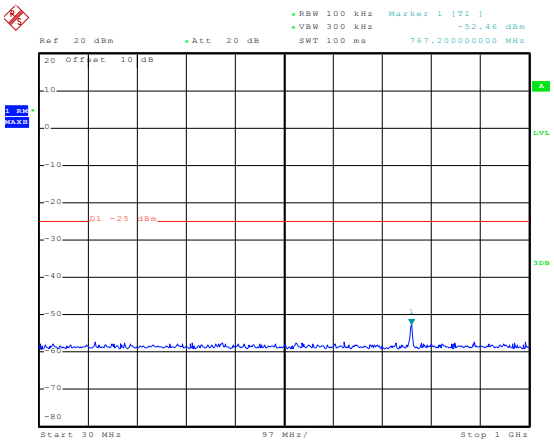
30MHz~1GHz



Date: 16.JAN.2015 15:49:16

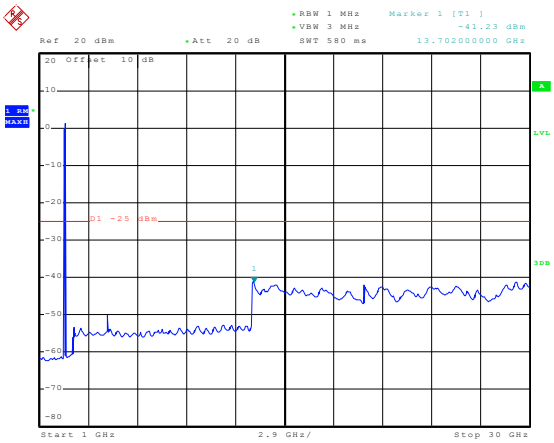
1GHz~30GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 15:43:02

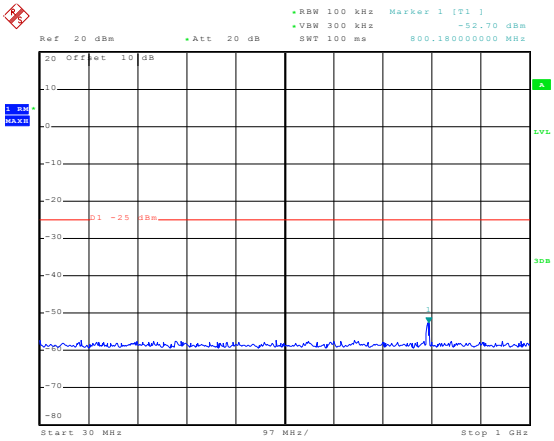
30MHz~1GHz



Date: 16.JAN.2015 15:53:53

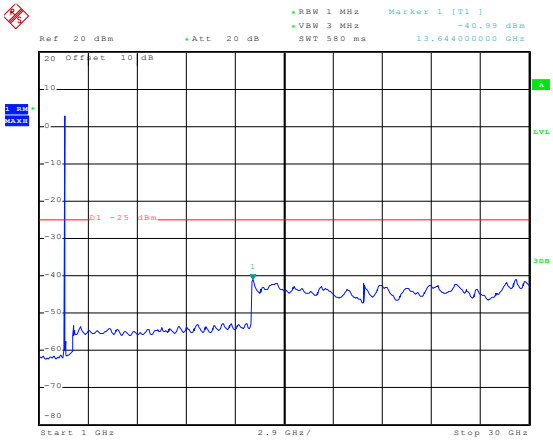
1GHz~30GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 15:44:57

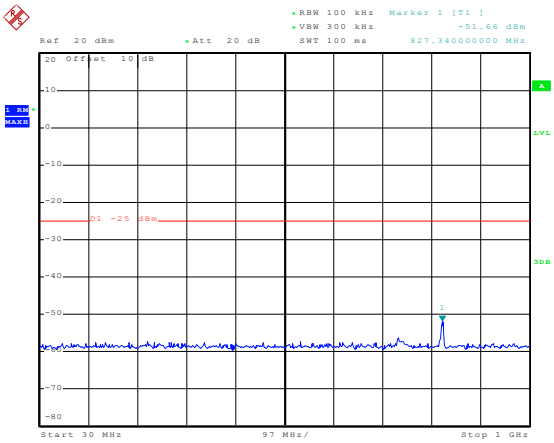
30MHz~1GHz



Date: 16.JAN.2015 15:51:21

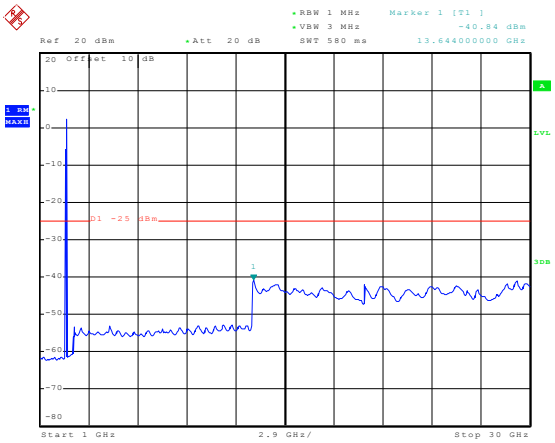
1GHz~30GHz

Test Mode:	LTE band 7(10MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 15:46:31

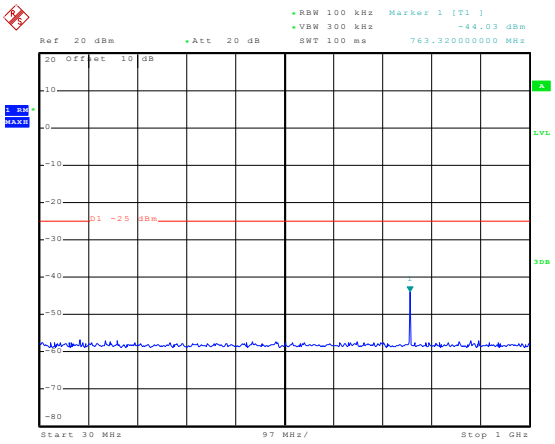
30MHz~1GHz



Date: 16.JAN.2015 15:49:30

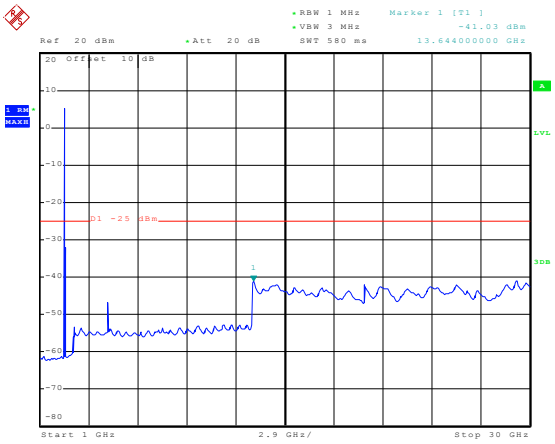
1GHz~30GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 15:41:53

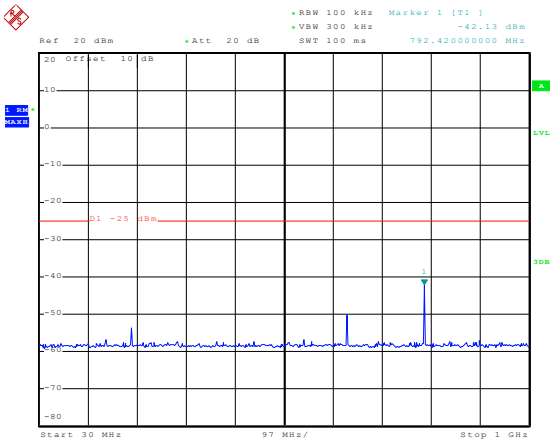
30MHz~1GHz



Date: 16.JAN.2015 15:52:20

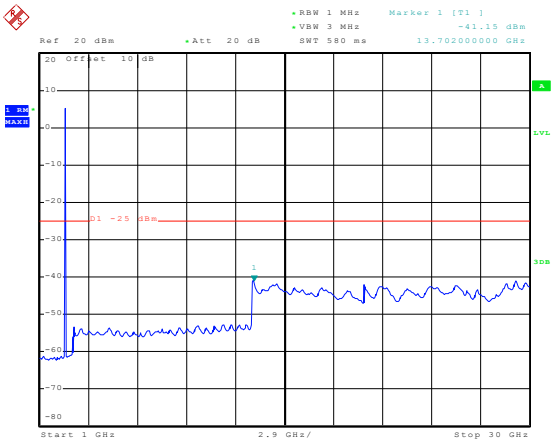
1GHz~30GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 15:43:37

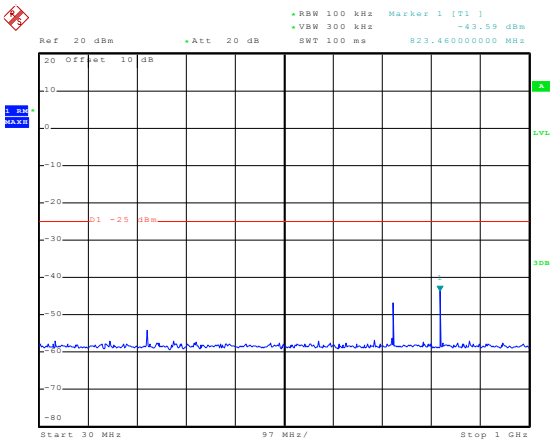
30MHz~1GHz



Date: 16.JAN.2015 15:49:54

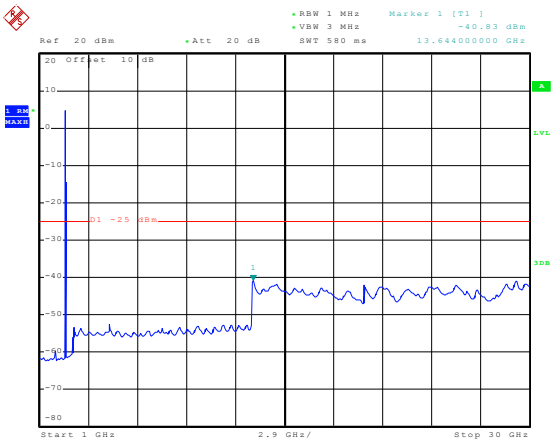
1GHz~30GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 1 & RB Offset 49	Test Channel:	Highest channel



Date: 16.JAN.2015 15:45:20

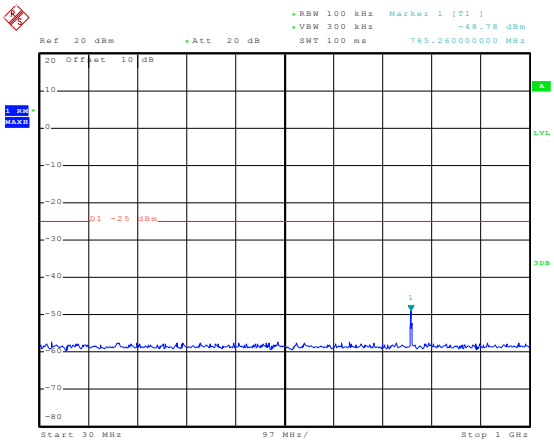
30MHz~1GHz



Date: 16.JAN.2015 15:47:49

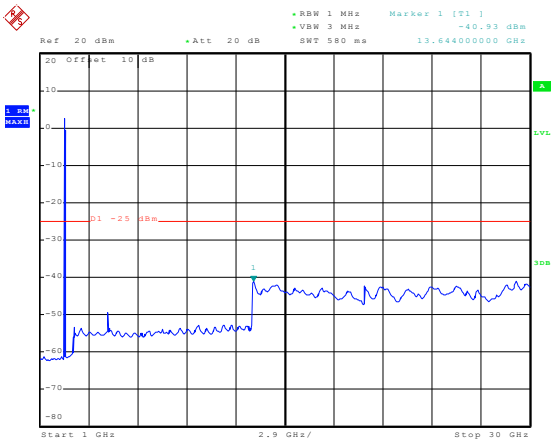
1GHz~30GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 15:42:07

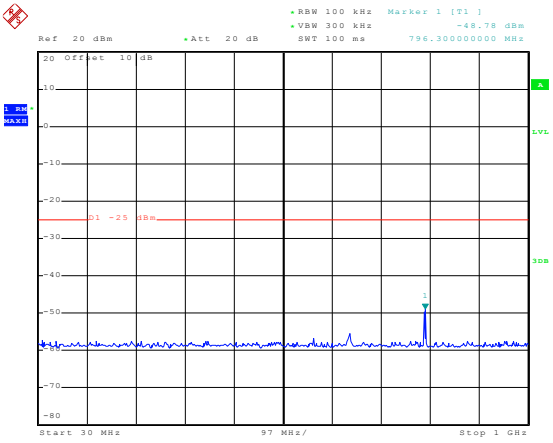
30MHz~1GHz



Date: 16.JAN.2015 15:52:35

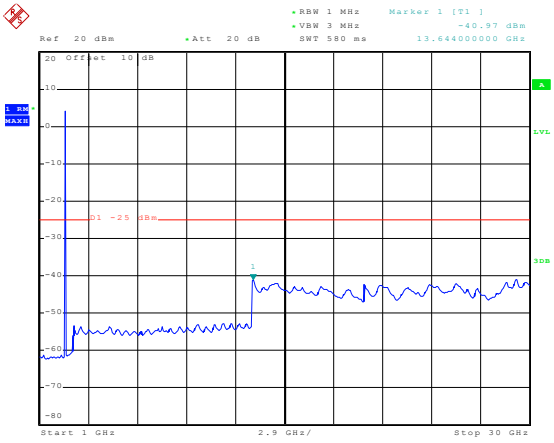
1GHz~30GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 25 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 15:43:50

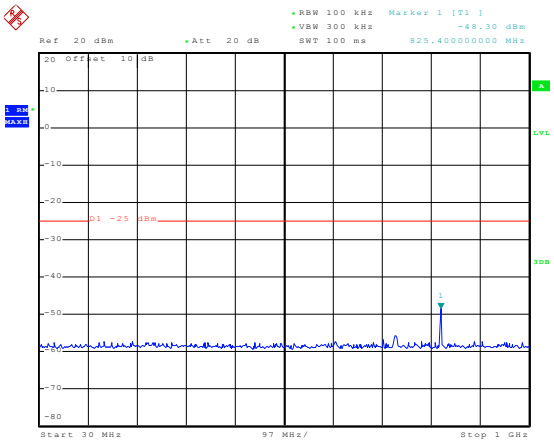
30MHz~1GHz



Date: 16.JAN.2015 15:50:20

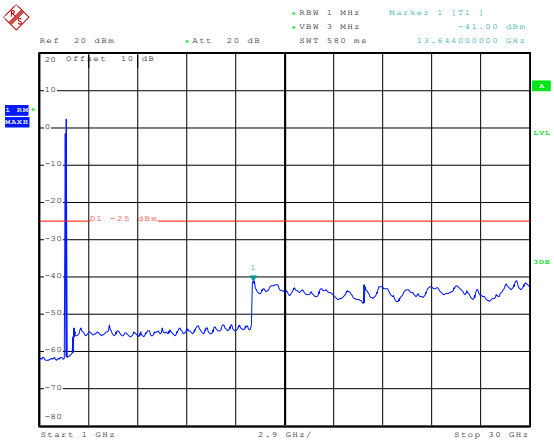
1GHz~30GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 25 & RB Offset 24	Test Channel:	Highest channel



Date: 16.JAN.2015 15:45:34

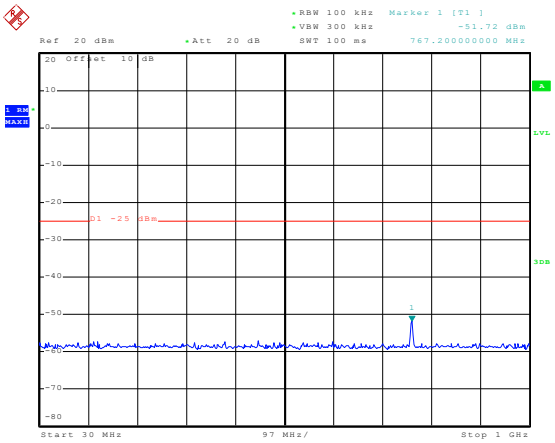
30MHz~1GHz



Date: 16.JAN.2015 15:48:04

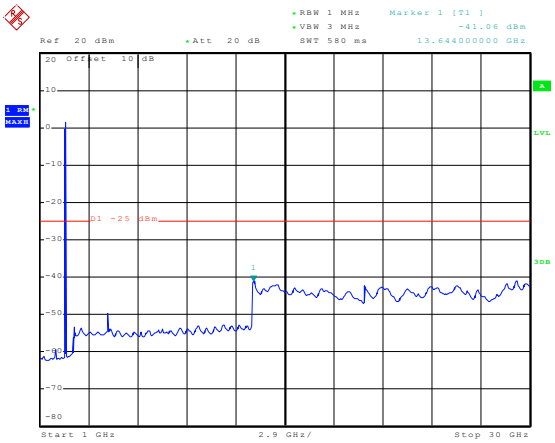
1GHz~30GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 15:42:18

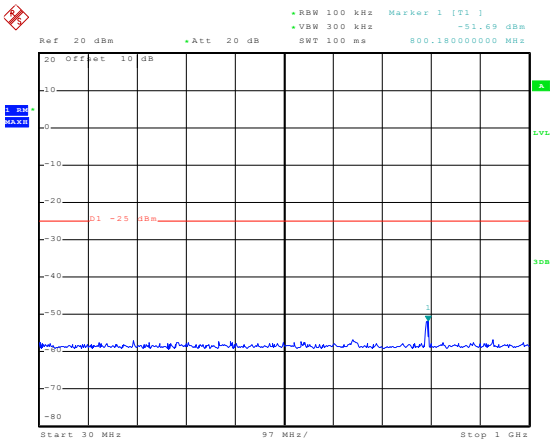
30MHz~1GHz



Date: 16.JAN.2015 15:52:49

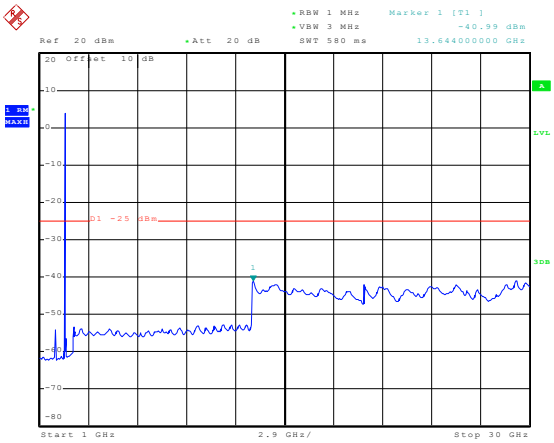
1GHz~30GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 15:44:04

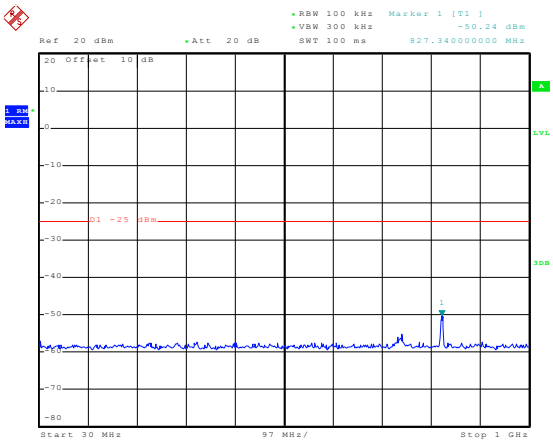
30MHz~1GHz



Date: 16.JAN.2015 15:50:33

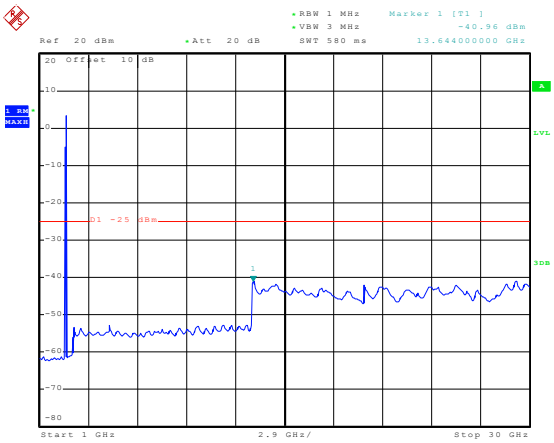
1GHz~30GHz

Test Mode:	LTE band 7(10MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 15:45:46

30MHz~1GHz

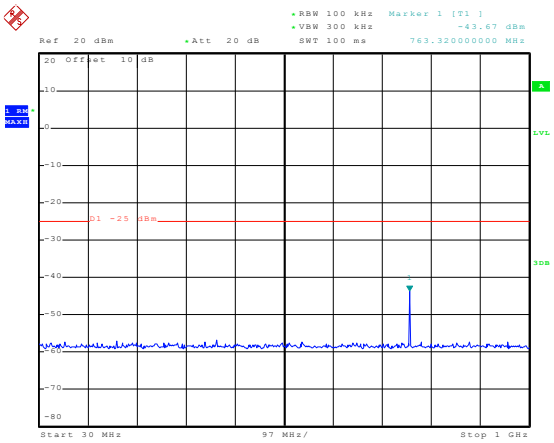


Date: 16.JAN.2015 15:48:21

1GHz~27GHz

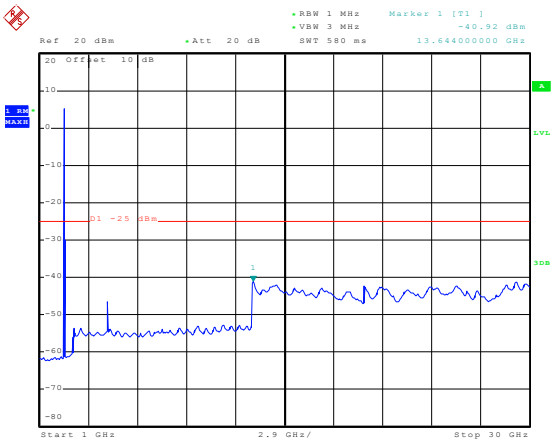
15MHz:

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 16:12:16

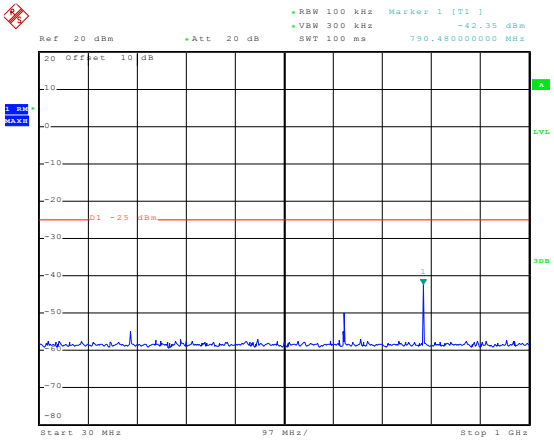
30MHz~1GHz



Date: 16.JAN.2015 16:00:12

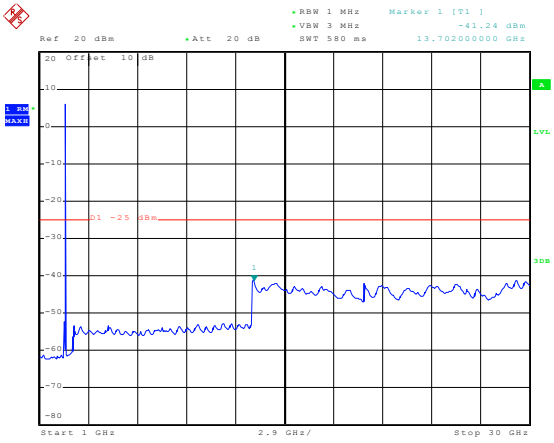
1GHz~30GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 16:10:05

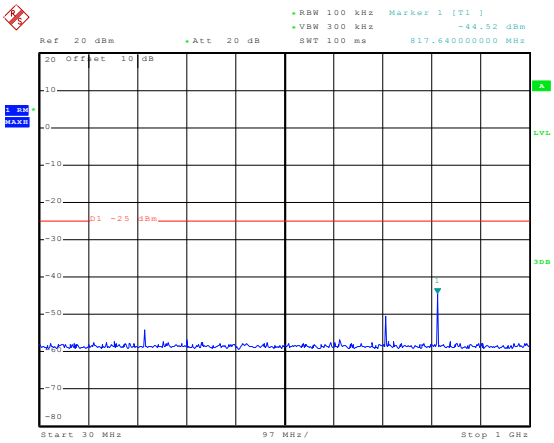
30MHz~1GHz



Date: 16.JAN.2015 16:02:33

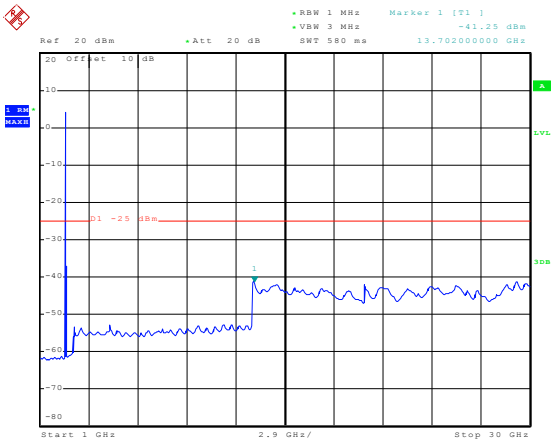
1GHz~30GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 1 & RB Offset 74	Test Channel:	Highest channel



Date: 16.JAN.2015 16:07:00

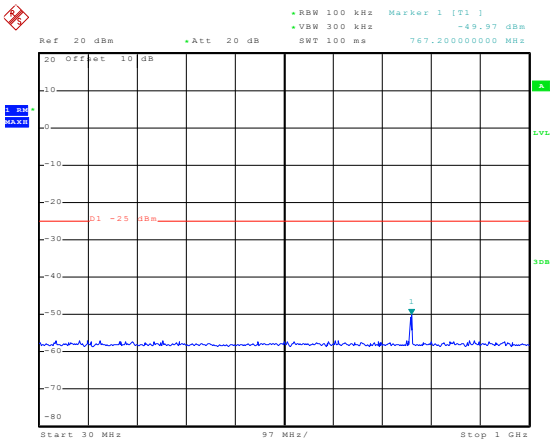
30MHz~1GHz



Date: 16.JAN.2015 16:05:10

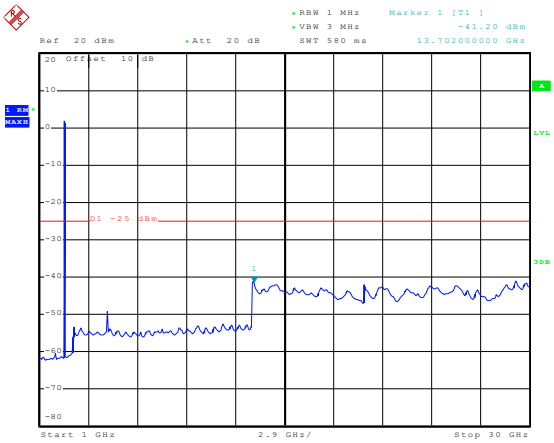
1GHz~30GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 36 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 16:13:08

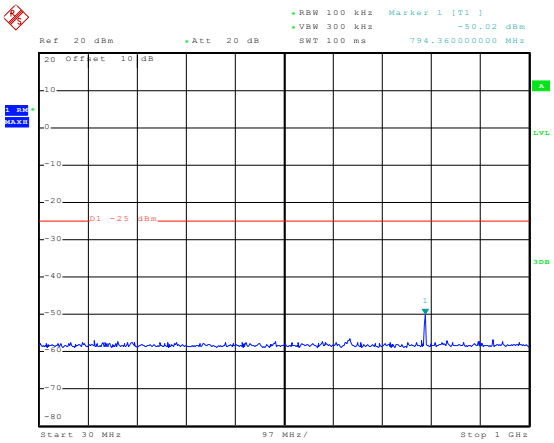
30MHz~1GHz



Date: 16.JAN.2015 16:00:40

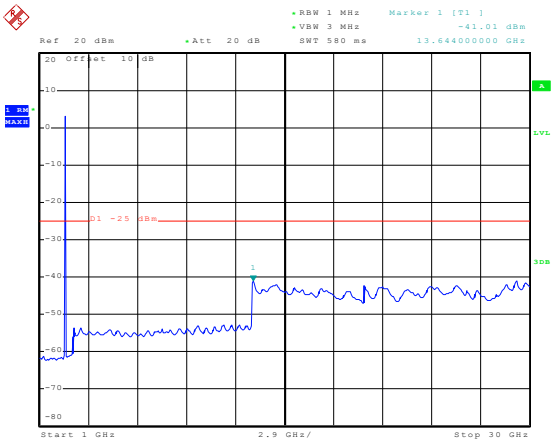
1GHz~30GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 36 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 16:10:30

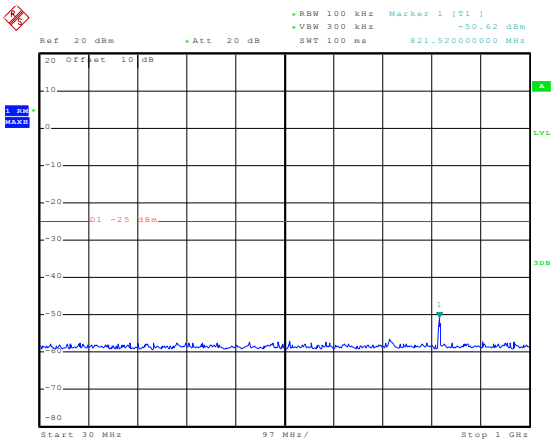
30MHz~1GHz



Date: 16.JAN.2015 16:02:53

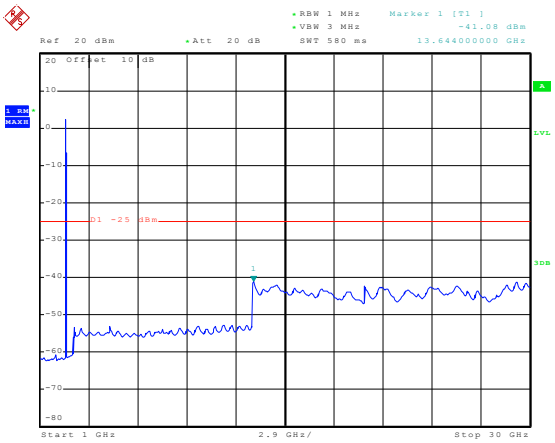
1GHz~30GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 36 & RB Offset 35	Test Channel:	Highest channel



Date: 16.JAN.2015 16:06:48

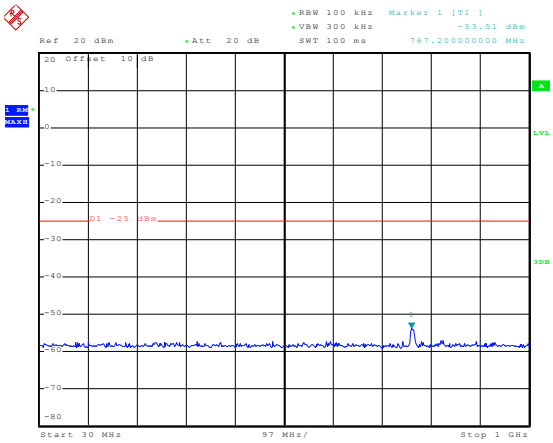
30MHz~1GHz



Date: 16.JAN.2015 16:05:25

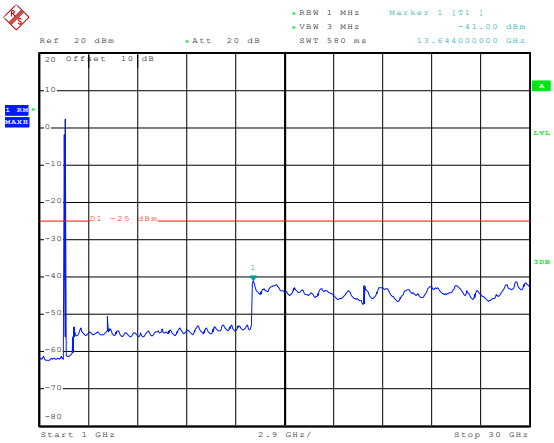
1GHz~30GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 75 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 16:13:27

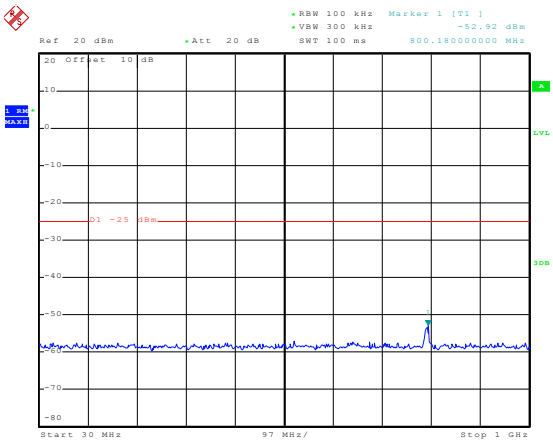
30MHz~1GHz



Date: 16.JAN.2015 16:00:54

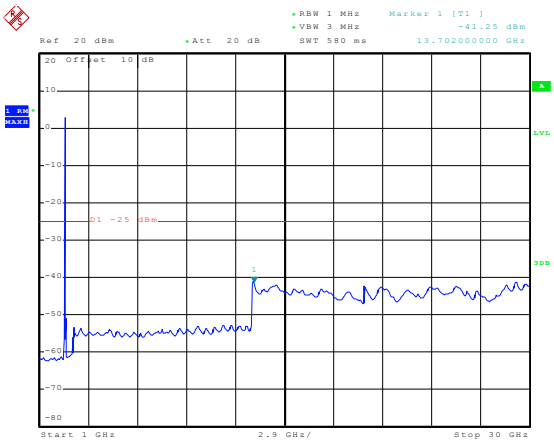
1GHz~30GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 75 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 16:10:44

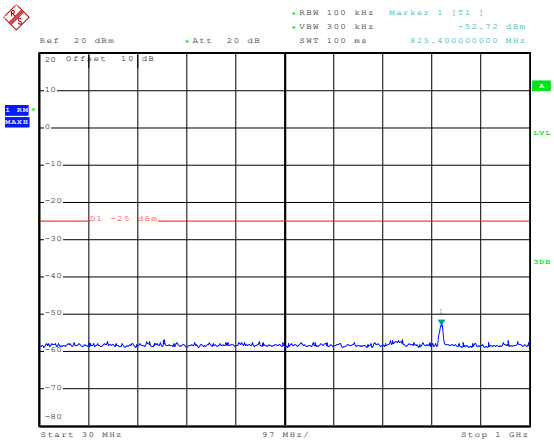
30MHz~1GHz



Date: 16.JAN.2015 16:03:10

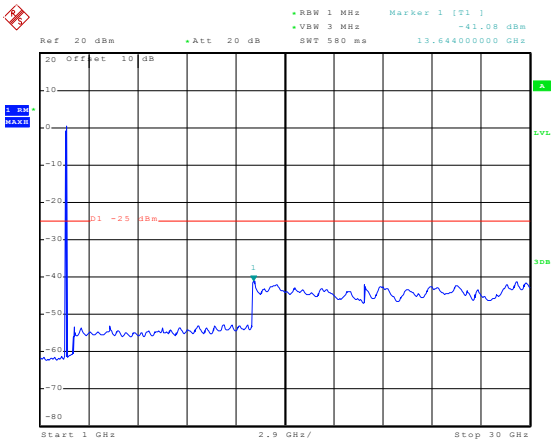
1GHz~30GHz

Test Mode:	LTE band 7(15MHz 16QAM) RB Size 75 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 16:06:34

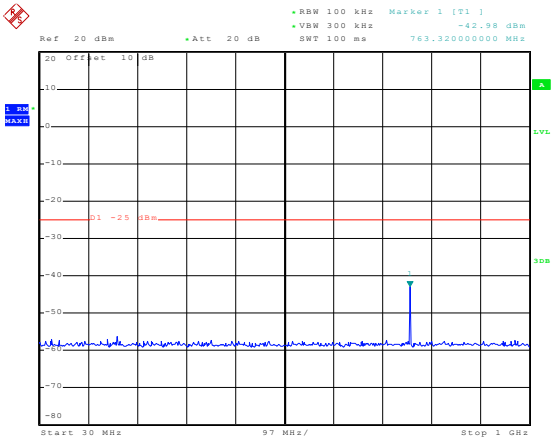
30MHz~1GHz



Date: 16.JAN.2015 16:05:48

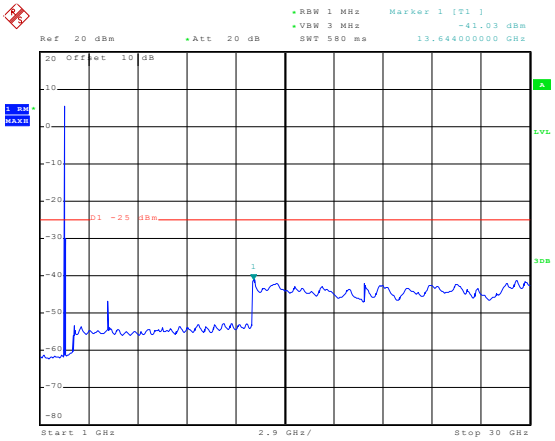
1GHz~30GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 16:11:09

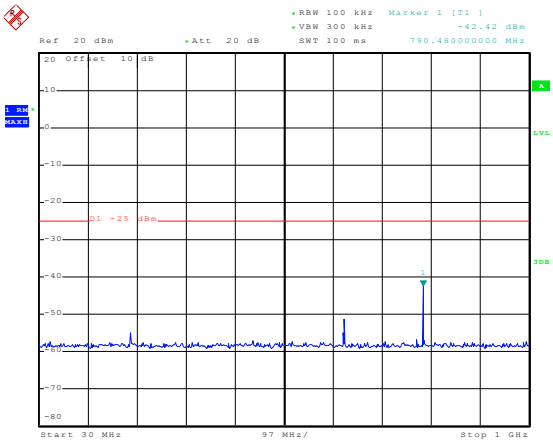
30MHz~1GHz



Date: 16.JAN.2015 15:59:19

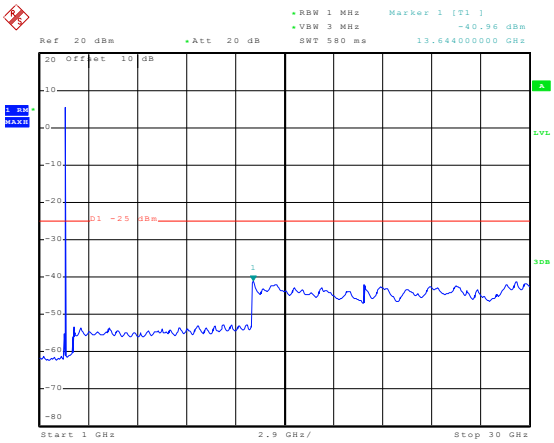
1GHz~30GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 16:08:19

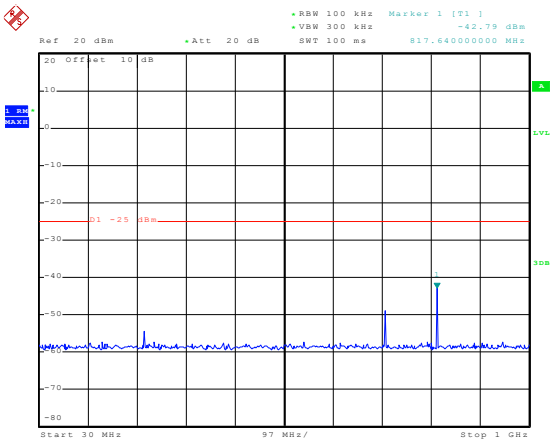
30MHz~1GHz



Date: 16.JAN.2015 16:01:27

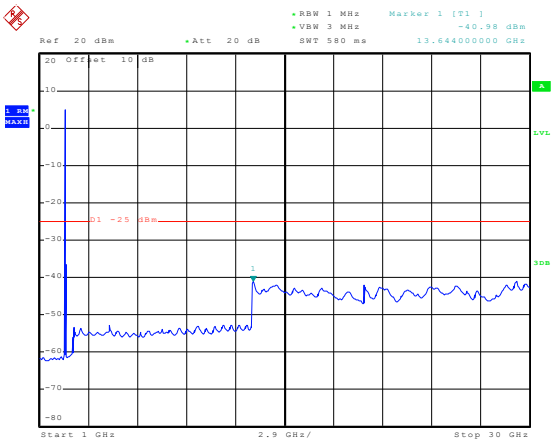
1GHz~30GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 1 & RB Offset 74	Test Channel:	Highest channel



Date: 16.JAN.2015 16:07:10

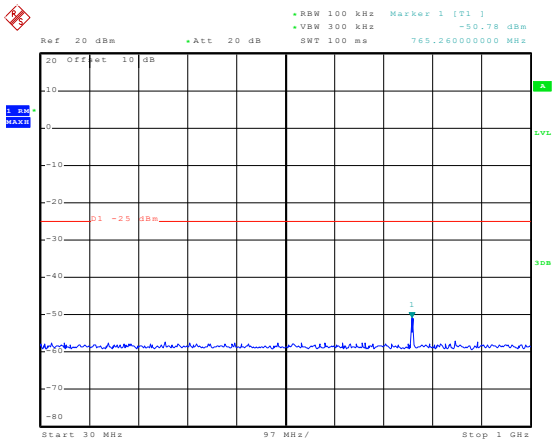
30MHz~1GHz



Date: 16.JAN.2015 16:03:48

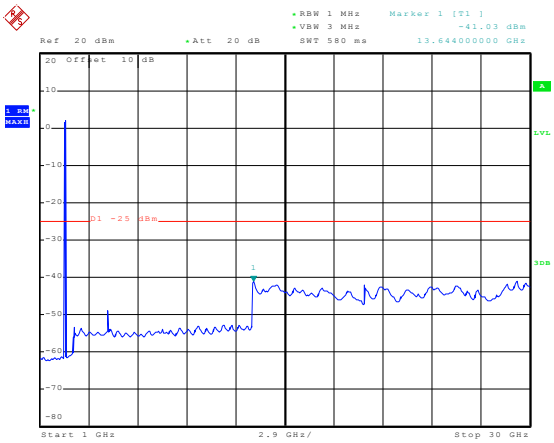
1GHz~30GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 36 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 16:11:23

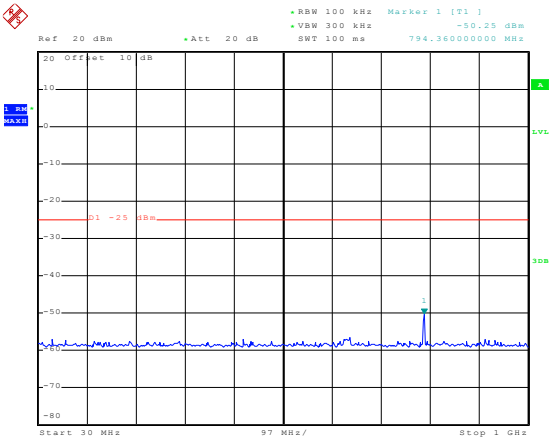
30MHz~1GHz



Date: 16.JAN.2015 15:59:42

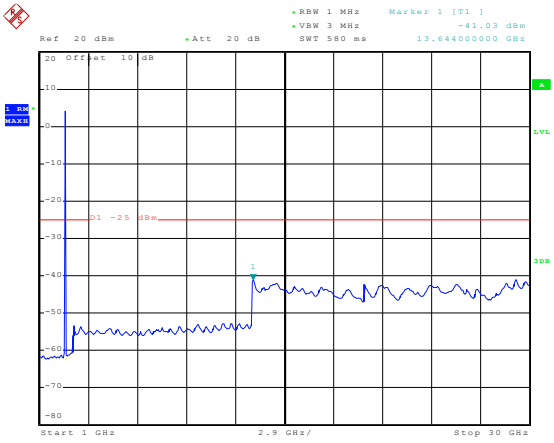
1GHz~30GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 36 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 16:08:35

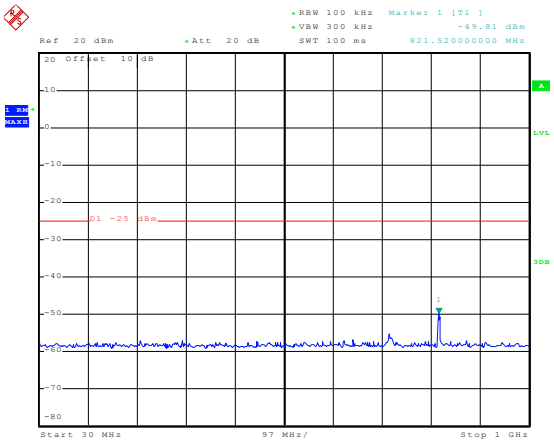
30MHz~1GHz



Date: 16.JAN.2015 16:01:44

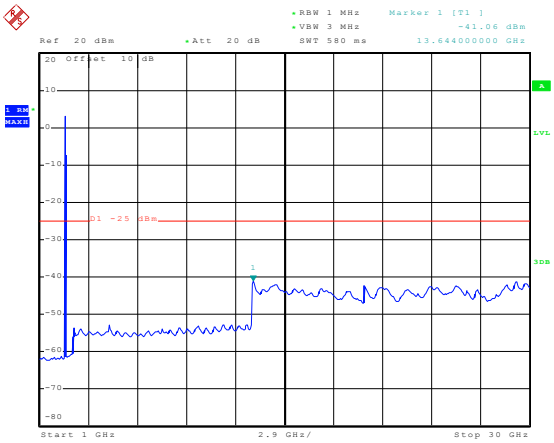
1GHz~30GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 36 & RB Offset 35	Test Channel:	Highest channel



Date: 16.JAN.2015 16:07:32

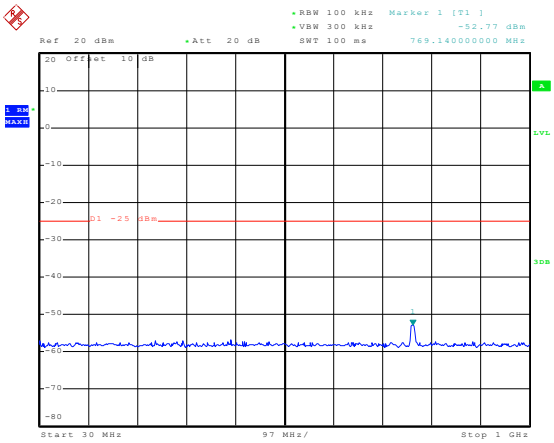
30MHz~1GHz



Date: 16.JAN.2015 16:04:48

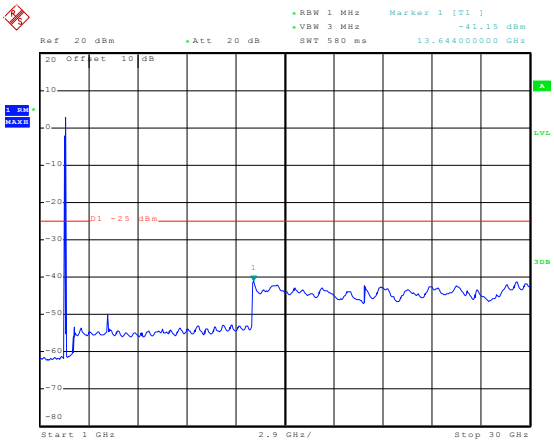
1GHz~30GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 75 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 16:11:59

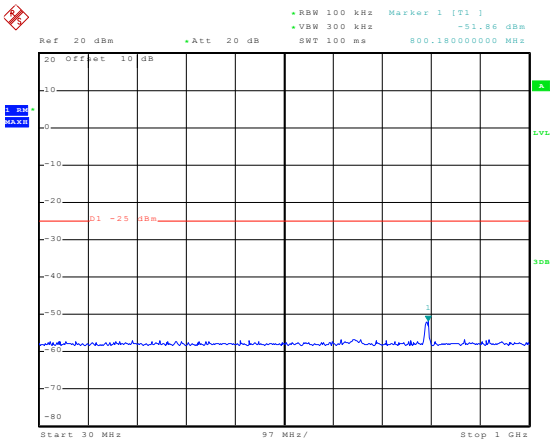
30MHz~1GHz



Date: 16.JAN.2015 15:59:55

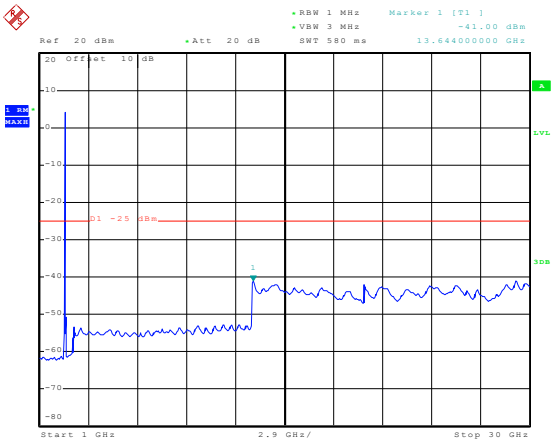
1GHz~30GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 75 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 16:09:46

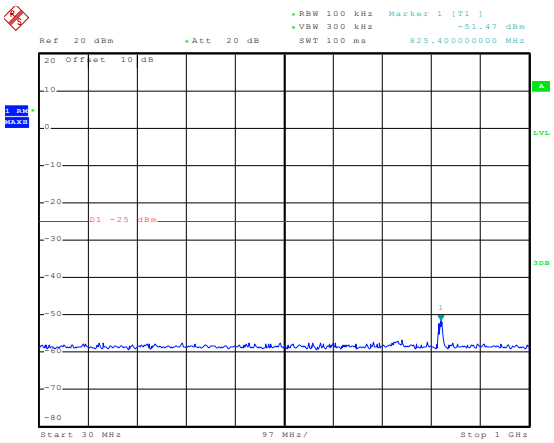
30MHz~1GHz



Date: 16.JAN.2015 16:02:08

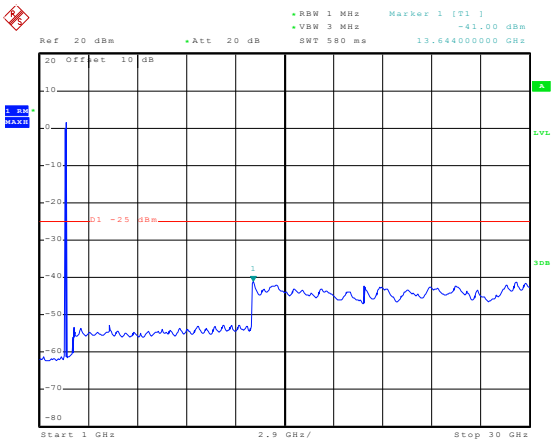
1GHz~30GHz

Test Mode:	LTE band 7(15MHz QPSK) RB Size 75 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 16:07:47

30MHz~1GHz

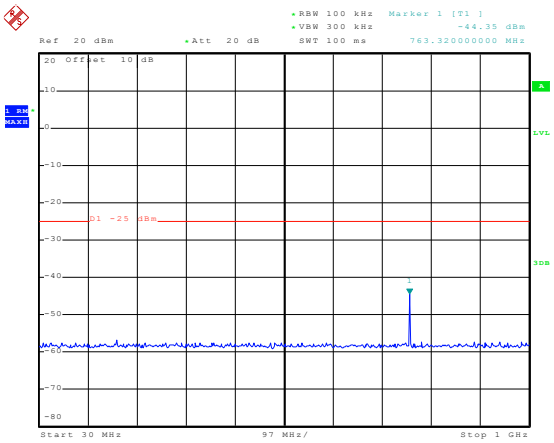


Date: 16.JAN.2015 16:04:31

1GHz~30GHz

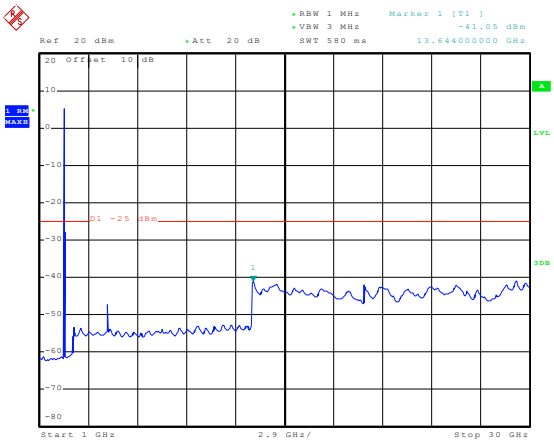
20MHz:

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 16:21:03

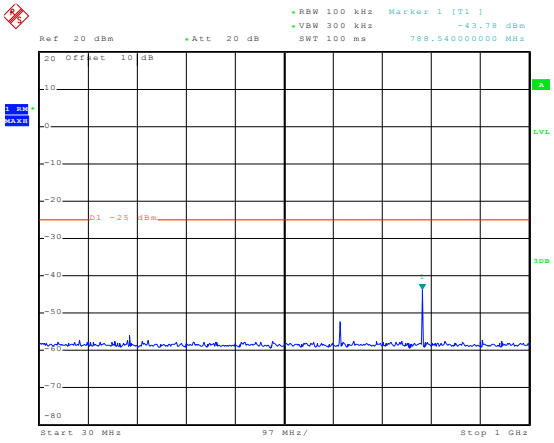
30MHz~1GHz



Date: 16.JAN.2015 16:36:03

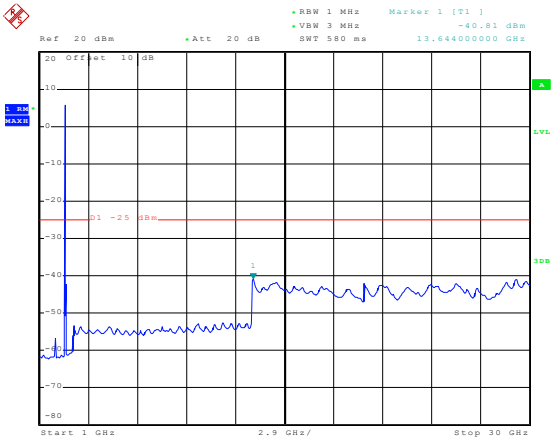
1GHz~30GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 1 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 16:22:57

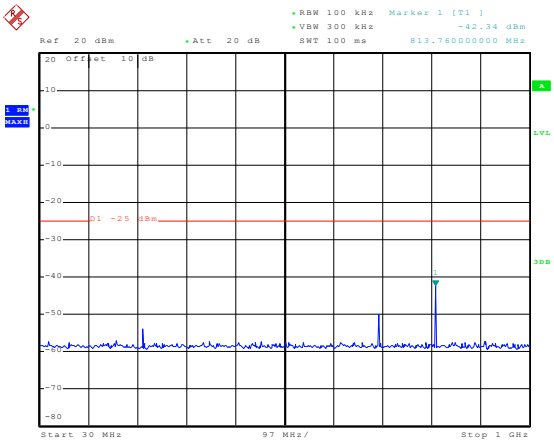
30MHz~1GHz



Date: 16.JAN.2015 16:33:17

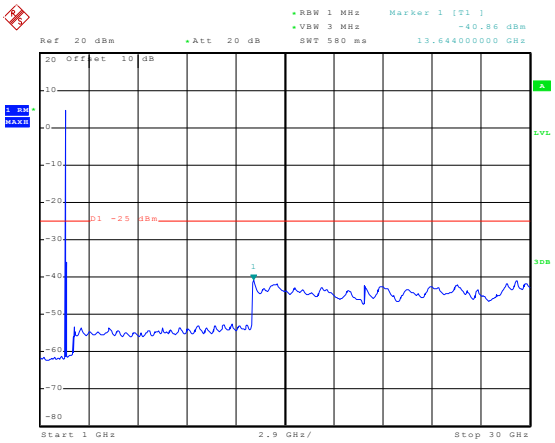
1GHz~30GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 1 & RB Offset 99	Test Channel:	Highest channel



Date: 16.JAN.2015 16:24:47

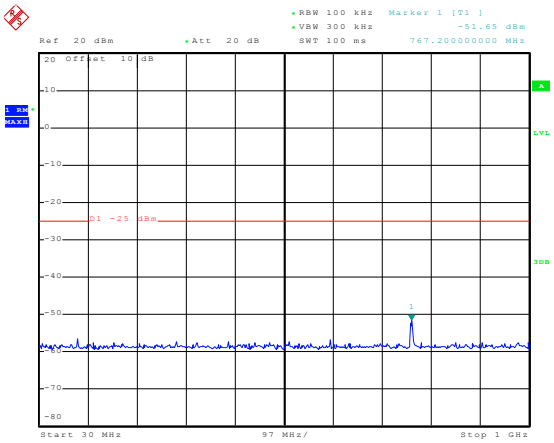
30MHz~1GHz



Date: 16.JAN.2015 16:28:29

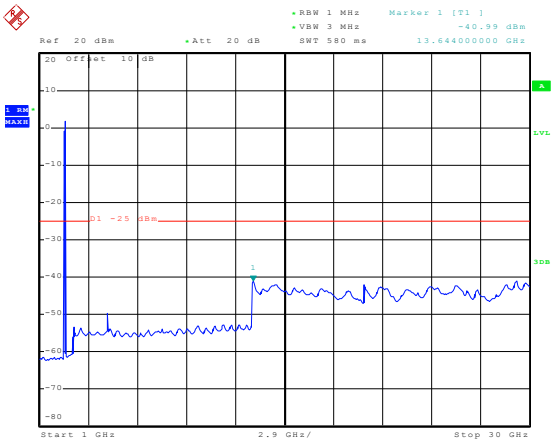
1GHz~30GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 16:21:16

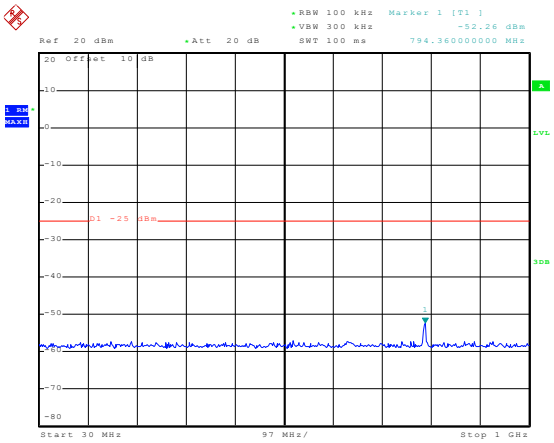
30MHz~1GHz



Date: 16.JAN.2015 16:36:23

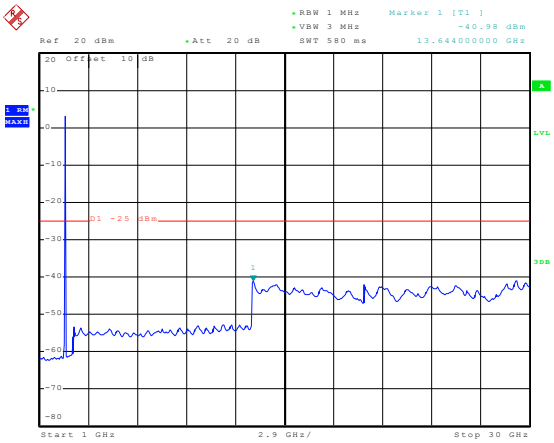
1GHz~30GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 50 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 16:23:19

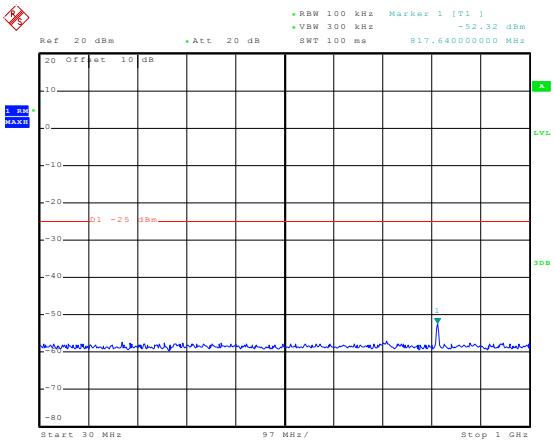
30MHz~1GHz



Date: 16.JAN.2015 16:33:33

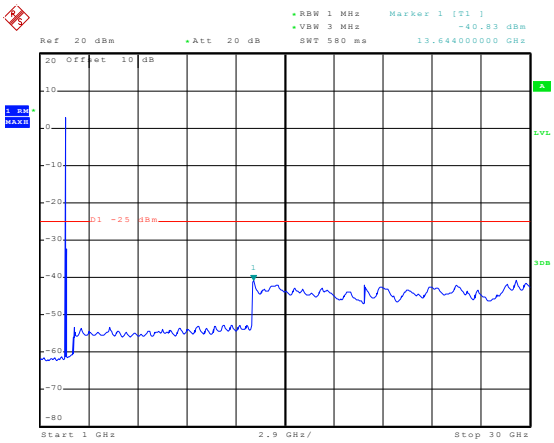
1GHz~30GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 50 & RB Offset 49	Test Channel:	Highest channel



Date: 16.JAN.2015 16:25:07

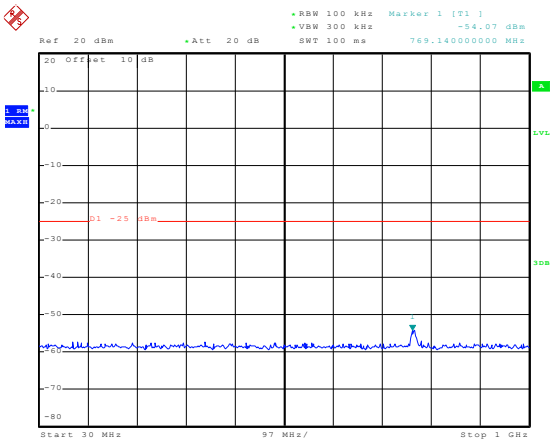
30MHz~1GHz



Date: 16.JAN.2015 16:28:50

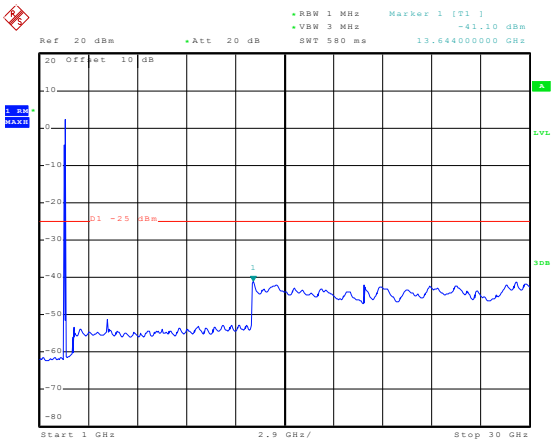
1GHz~30GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 100 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 16:21:28

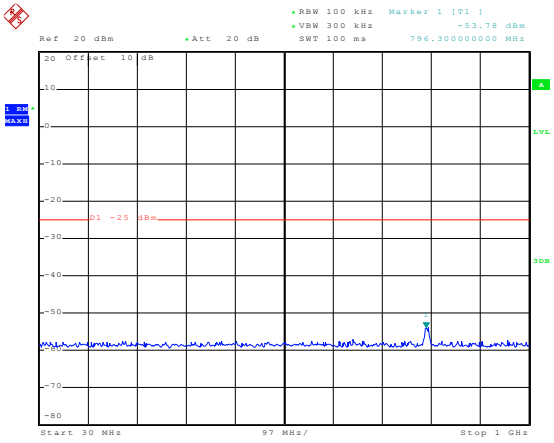
30MHz~1GHz



Date: 16.JAN.2015 16:36:42

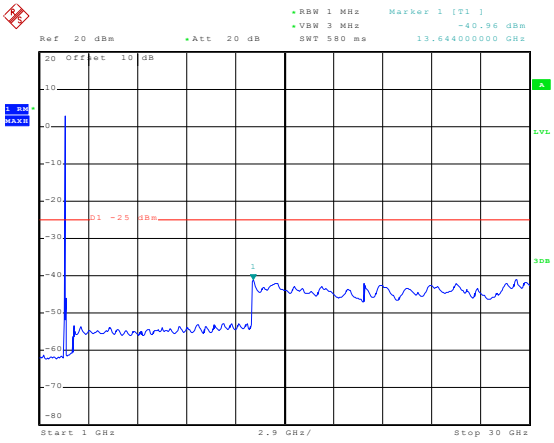
1GHz~30GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 100 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 16:23:33

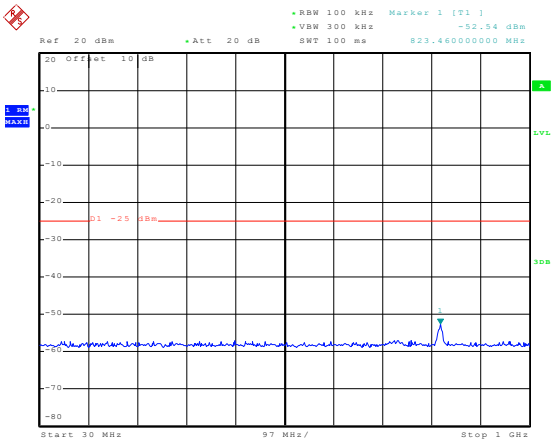
30MHz~1GHz



Date: 16.JAN.2015 16:33:50

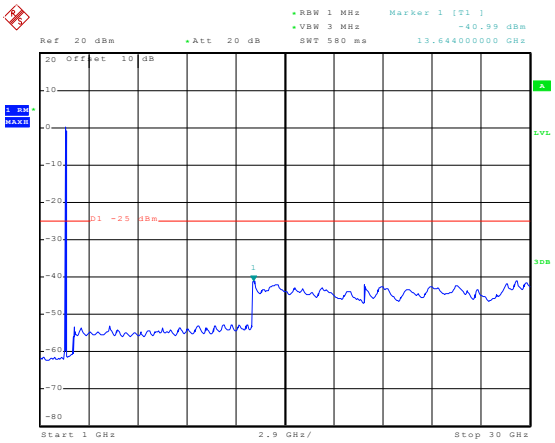
1GHz~30GHz

Test Mode:	LTE band 7(20MHz 16QAM) RB Size 100 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 16:25:36

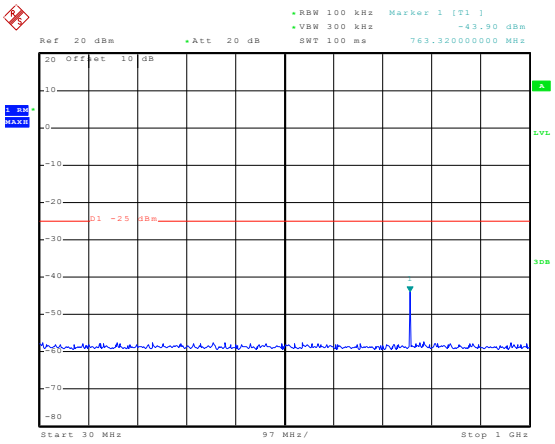
30MHz~1GHz



Date: 16.JAN.2015 16:29:06

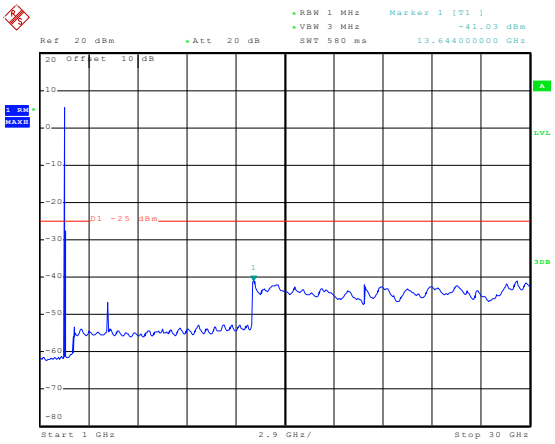
1GHz~30GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 16:20:14

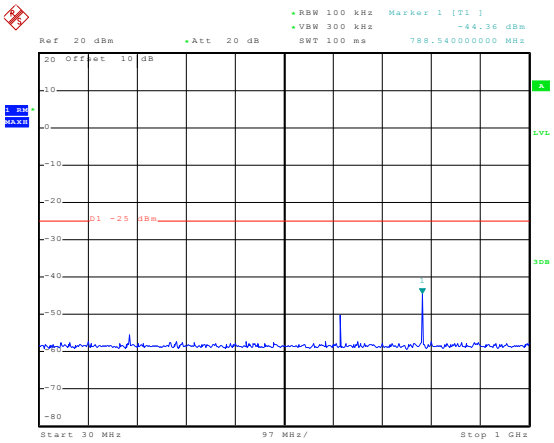
30MHz~1GHz



Date: 16.JAN.2015 16:34:37

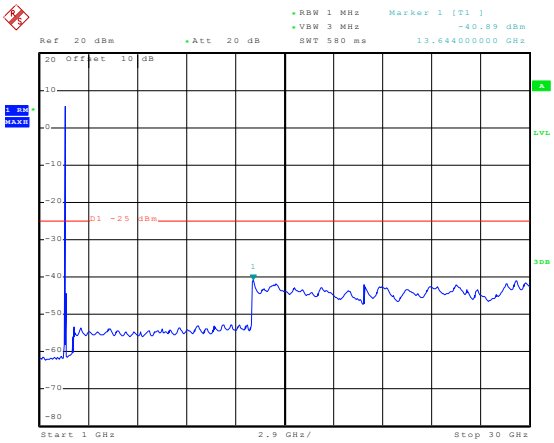
1GHz~30GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 1 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 16:21:54

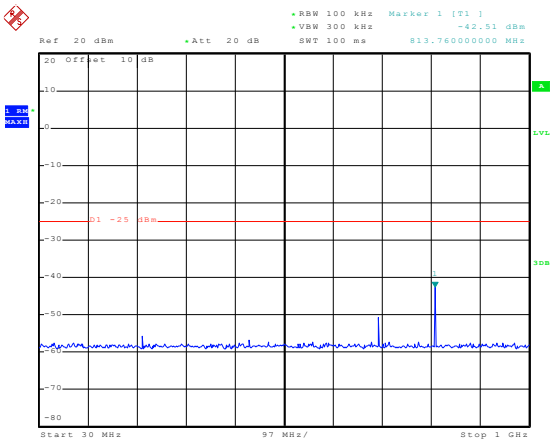
30MHz~1GHz



Date: 16.JAN.2015 16:29:46

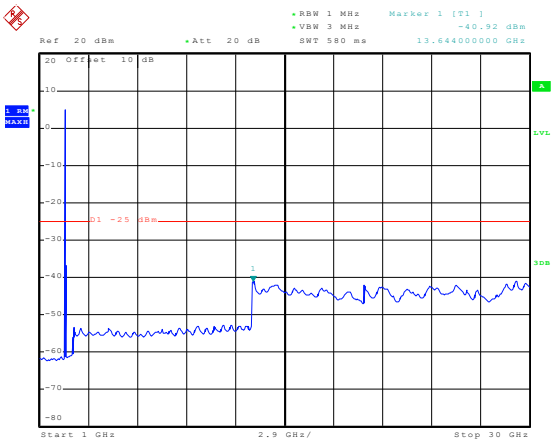
1GHz~30GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 1 & RB Offset 99	Test Channel:	Highest channel



Date: 16.JAN.2015 16:24:01

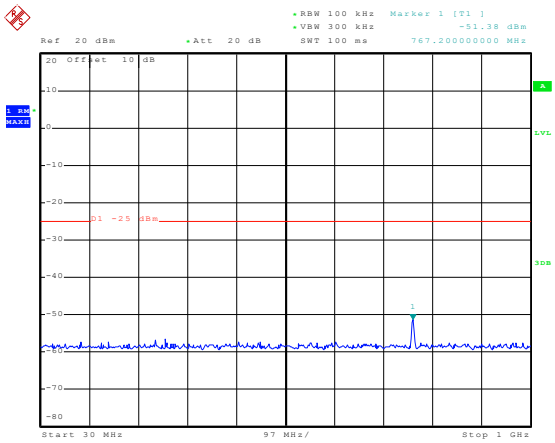
30MHz~1GHz



Date: 16.JAN.2015 16:27:45

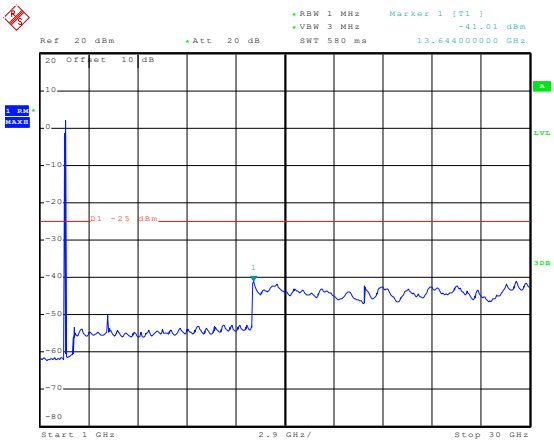
1GHz~30GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 16:20:29

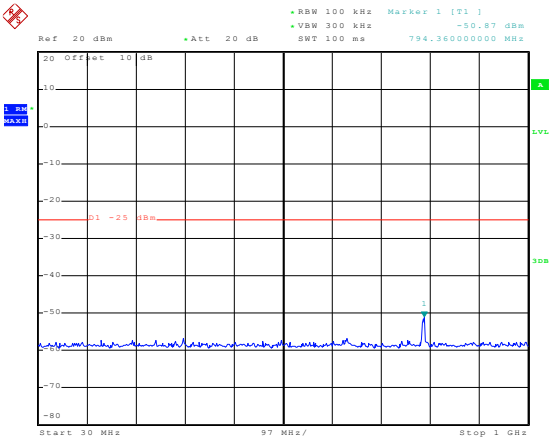
30MHz~1GHz



Date: 16.JAN.2015 16:34:52

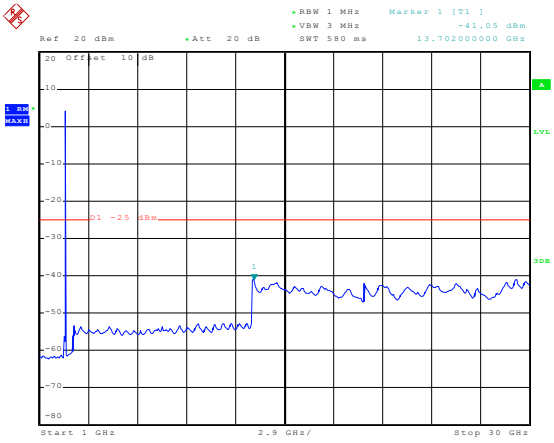
1GHz~30GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 50 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 16:22:07

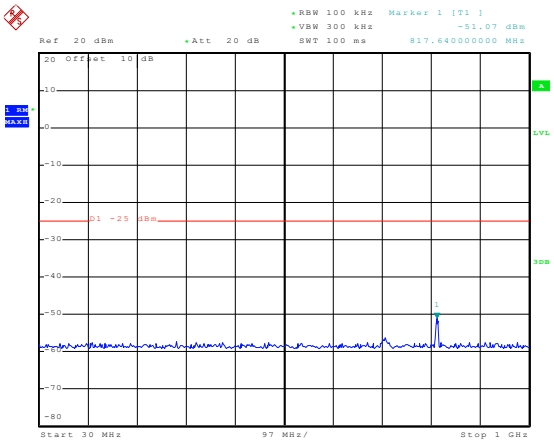
30MHz~1GHz



Date: 16.JAN.2015 16:30:41

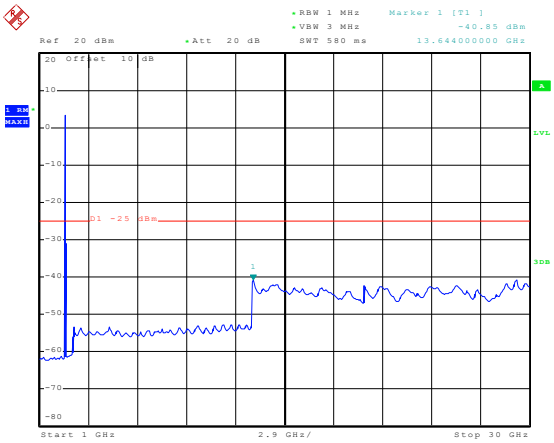
1GHz~30GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 50 & RB Offset 49	Test Channel:	Highest channel



Date: 16.JAN.2015 16:24:15

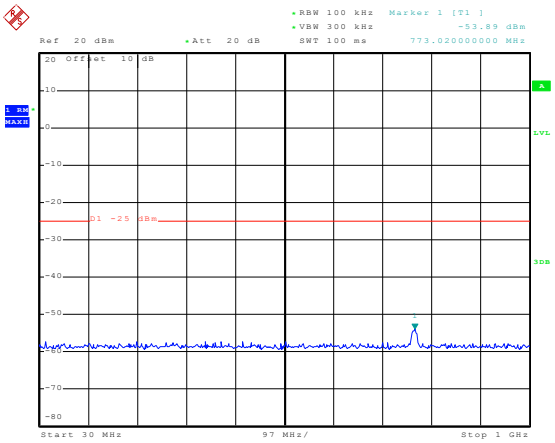
30MHz~1GHz



Date: 16.JAN.2015 16:28:02

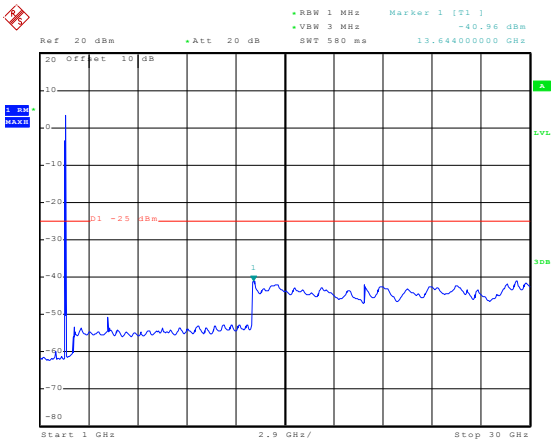
1GHz~30GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 100 & RB Offset 0	Test Channel:	Lowest channel



Date: 16.JAN.2015 16:20:42

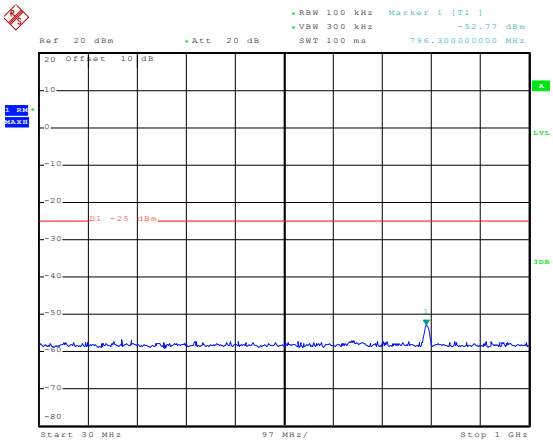
30MHz~1GHz



Date: 16.JAN.2015 16:35:31

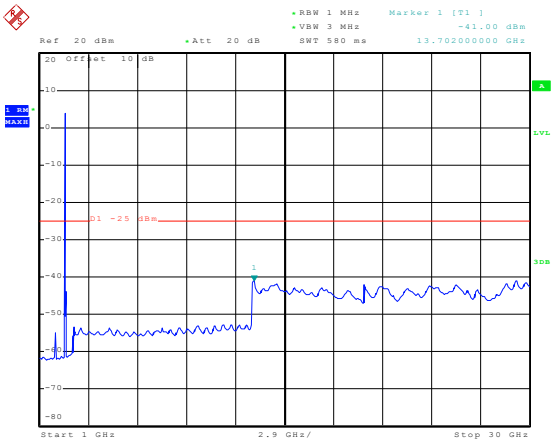
1GHz~30GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 100 & RB Offset 0	Test Channel:	Middle channel



Date: 16.JAN.2015 16:22:36

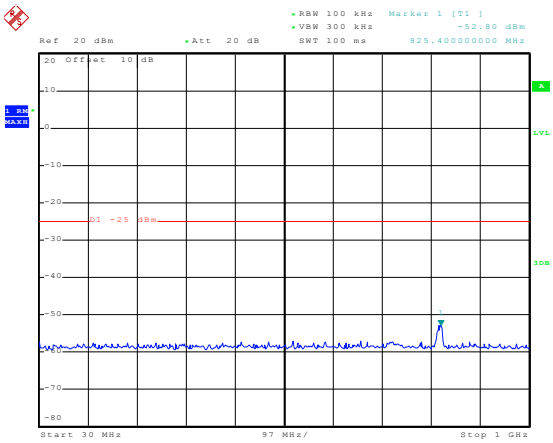
30MHz~1GHz



Date: 16.JAN.2015 16:31:32

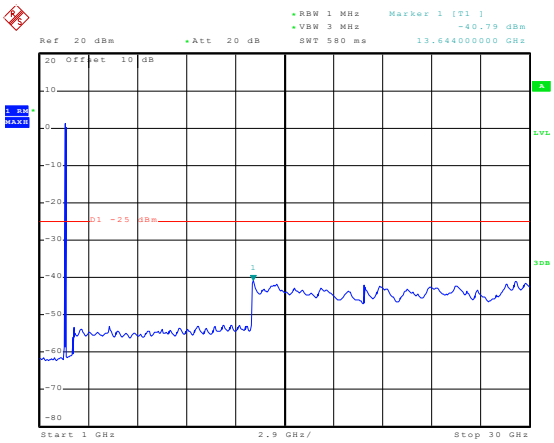
1GHz~30GHz

Test Mode:	LTE band 7(20MHz QPSK) RB Size 100 & RB Offset 0	Test Channel:	Highest channel



Date: 16.JAN.2015 16:24:26

30MHz~1GHz



Date: 16.JAN.2015 16:28:13

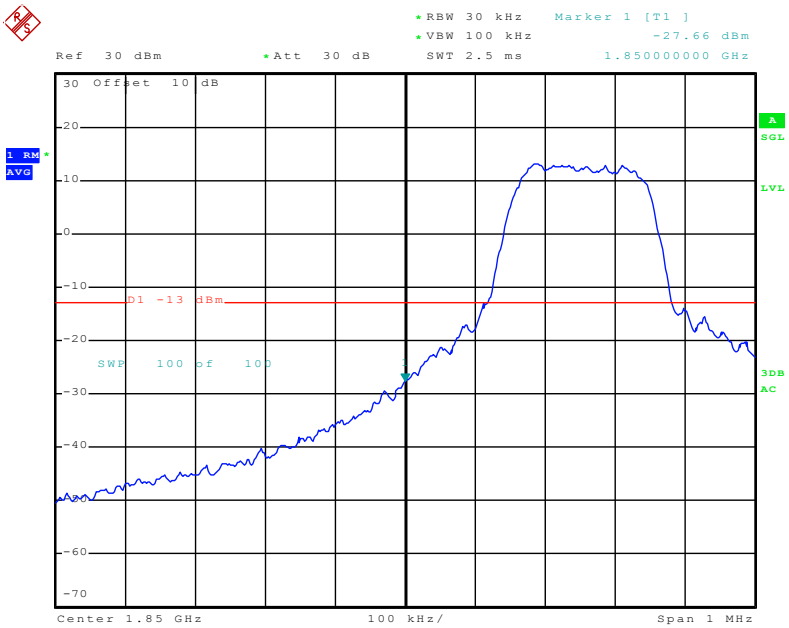
1GHz~30GHz

Band edge emission:

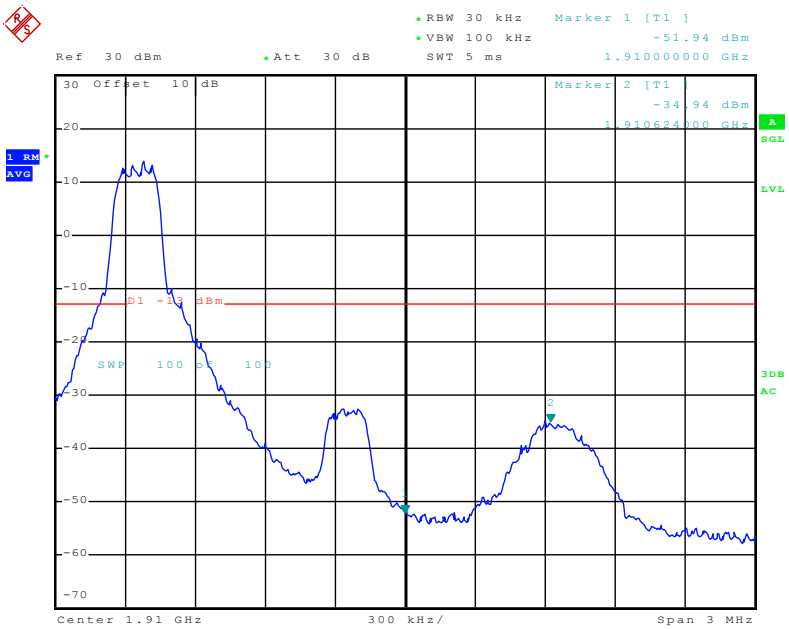
LTE band 2 part:

1.4MHz:

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

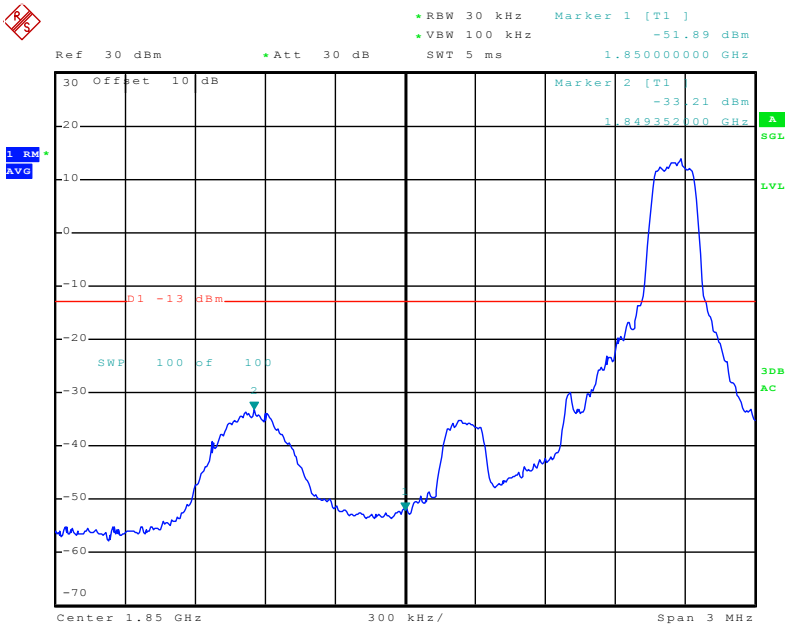


Lowest channel

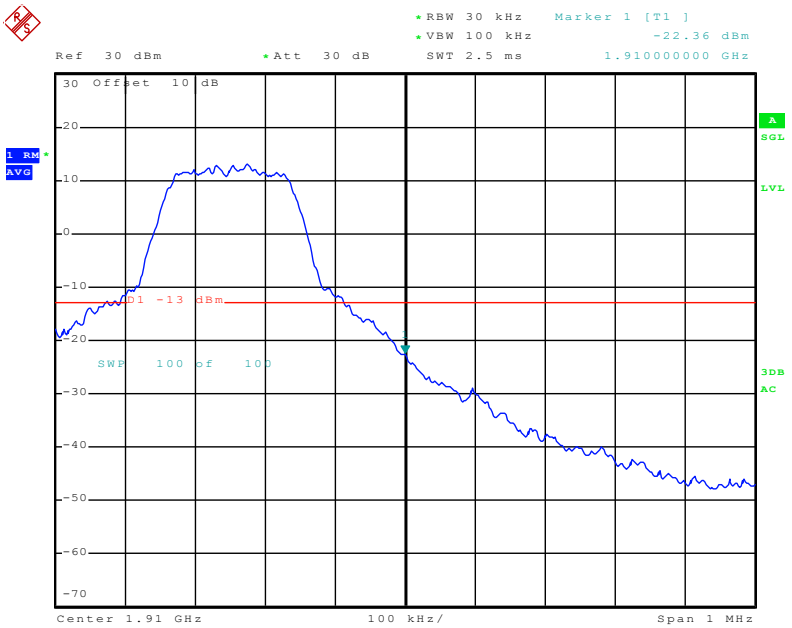


Highest channel

Test Mode: LTE band 2(16QAM RB Size 1 & RB Offset 5)

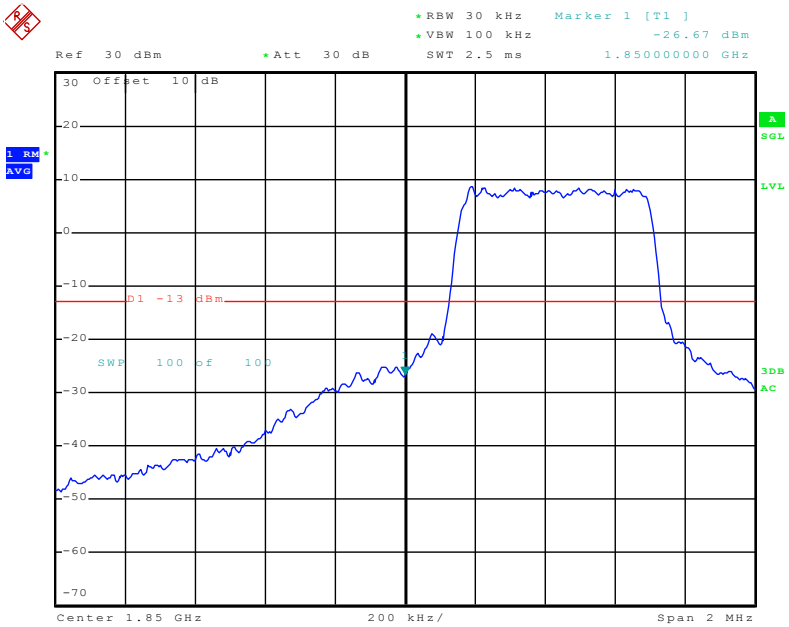


Lowest channel

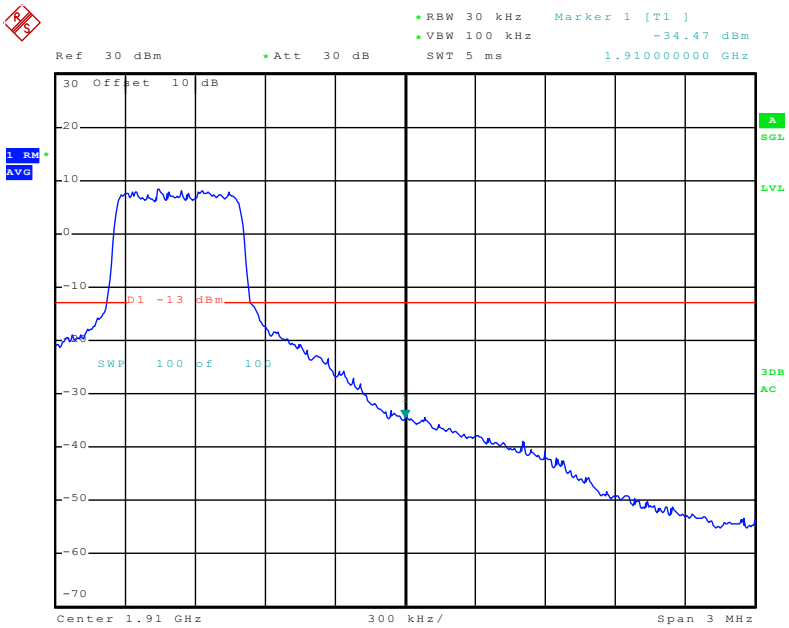


Highest channel

Test Mode: LTE band 2(16QAM RB Size 3 & RB Offset 0)

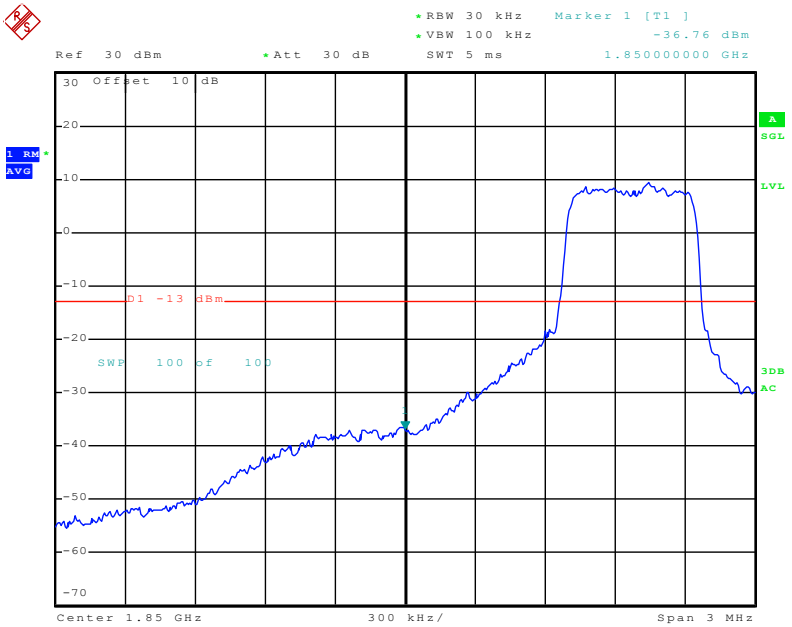


Lowest channel

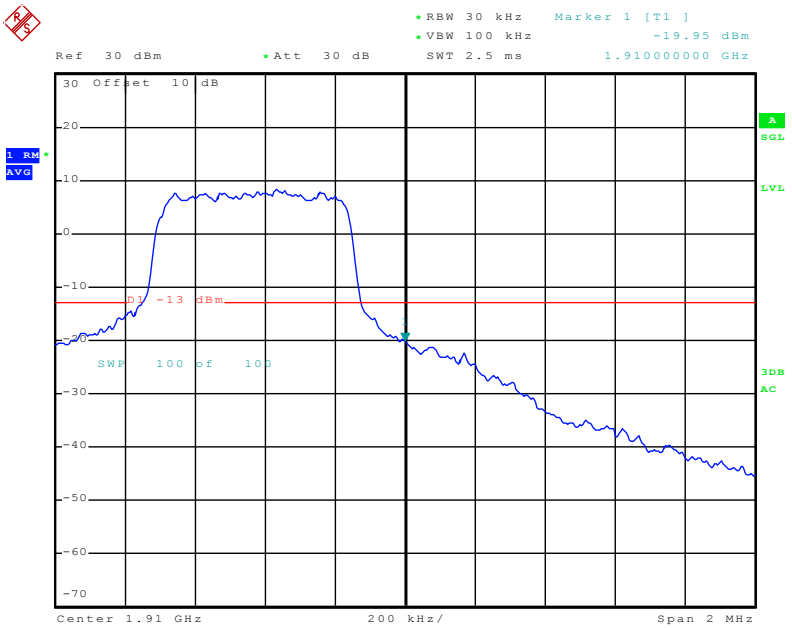


Highest channel

Test Mode: LTE band 2(16QAM RB Size 3 & RB Offset 2)

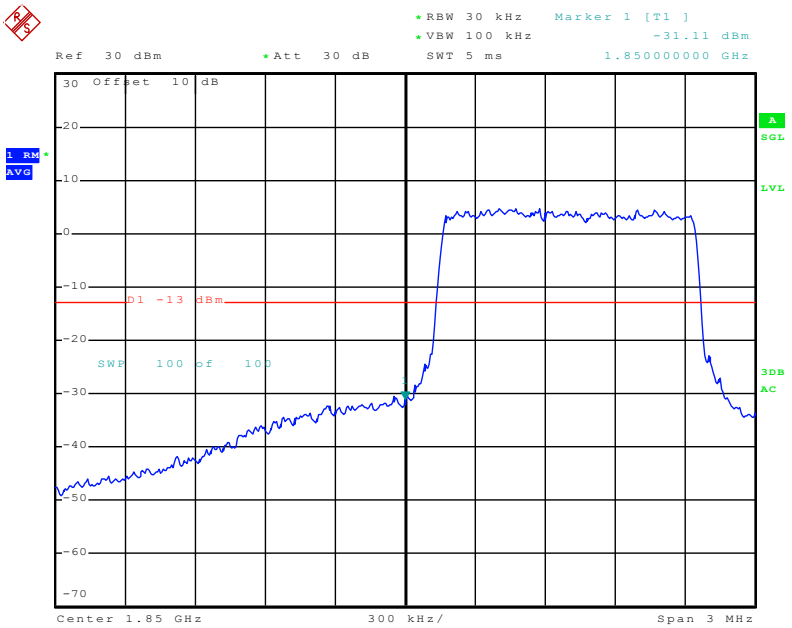


Lowest channel



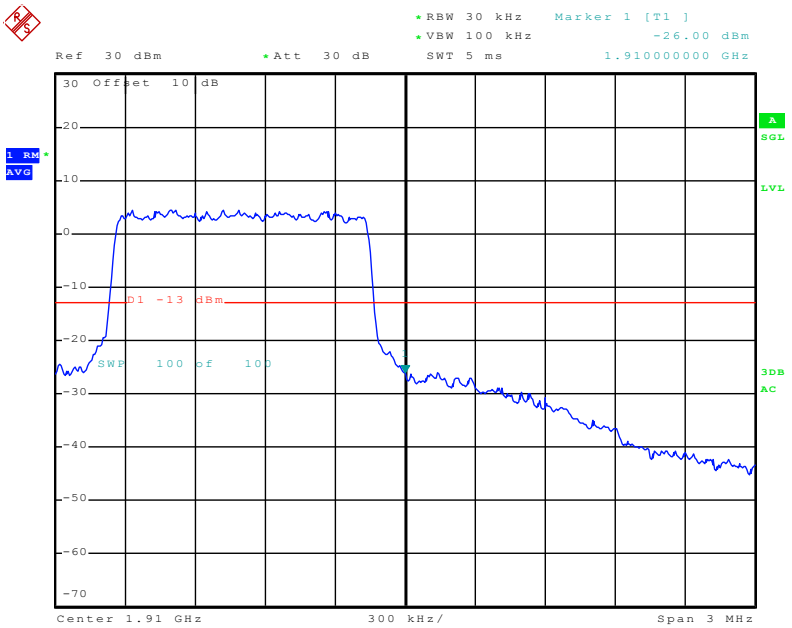
Highest channel

Test Mode: LTE band 2(16QAM RB Size 6 & RB Offset 0)



Date: 17.JAN.2015 11:04:41

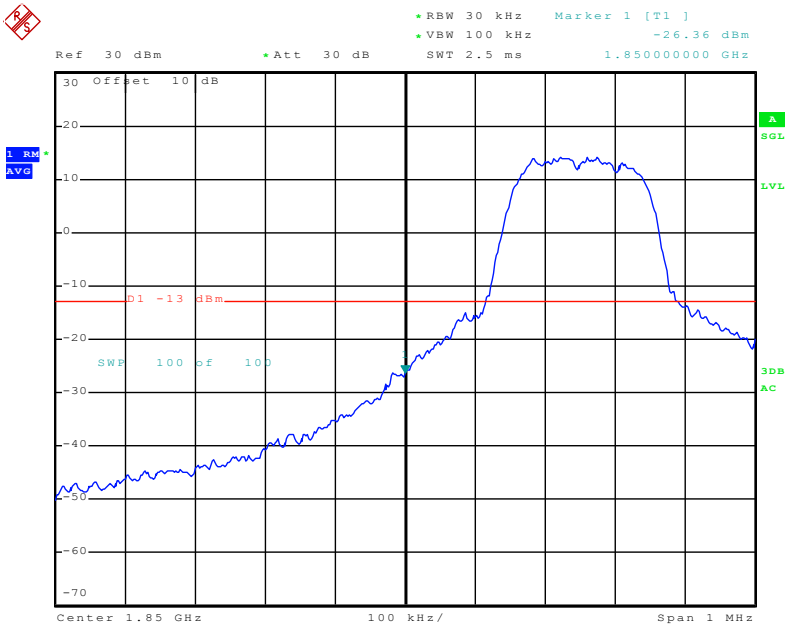
Lowest channel



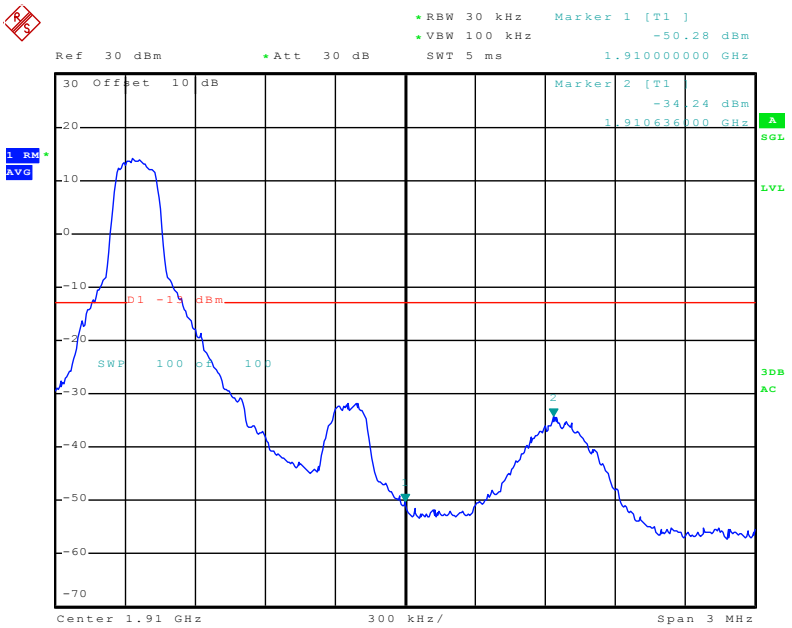
Date: 17.JAN.2015 11:14:06

Highest channel

Test Mode: LTE band 2(QPSK RB Size 1 & RB Offset 0)

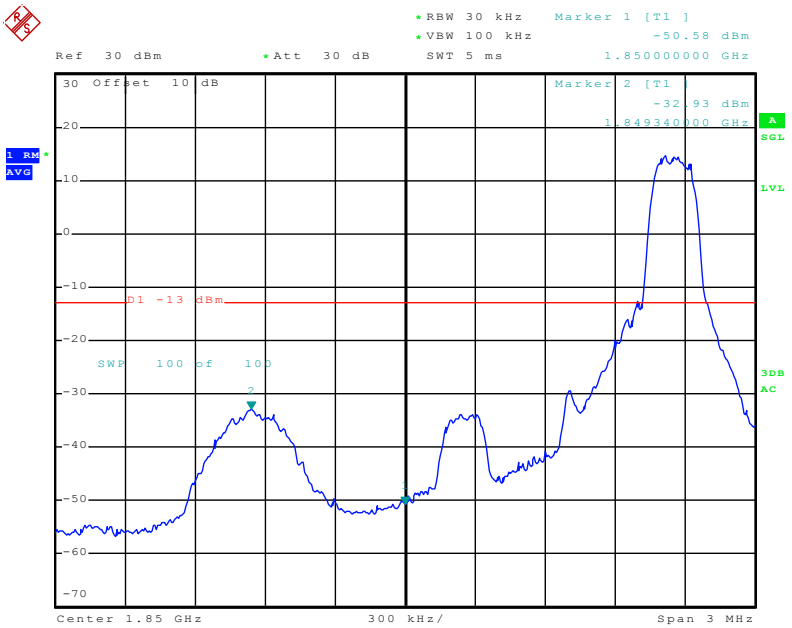


Lowest channel



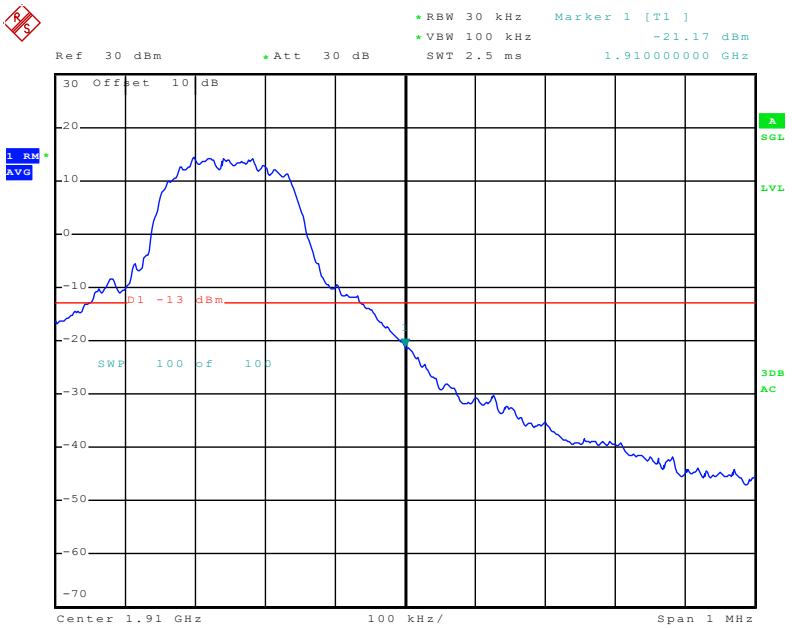
Highest channel

Test Mode: LTE band 2(QPSK RB Size 1 & RB Offset 5)



Date: 17.JAN.2015 10:05:05

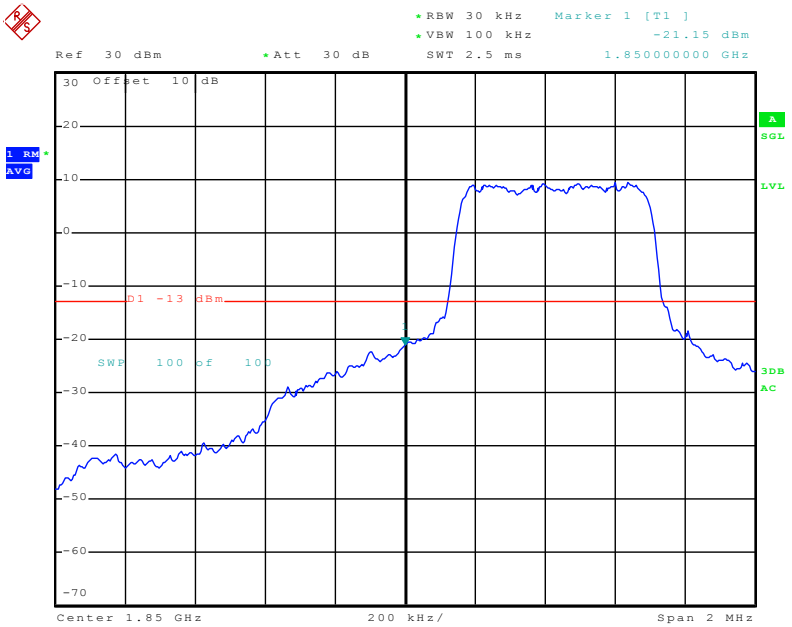
Lowest channel



Date: 17.JAN.2015 11:07:38

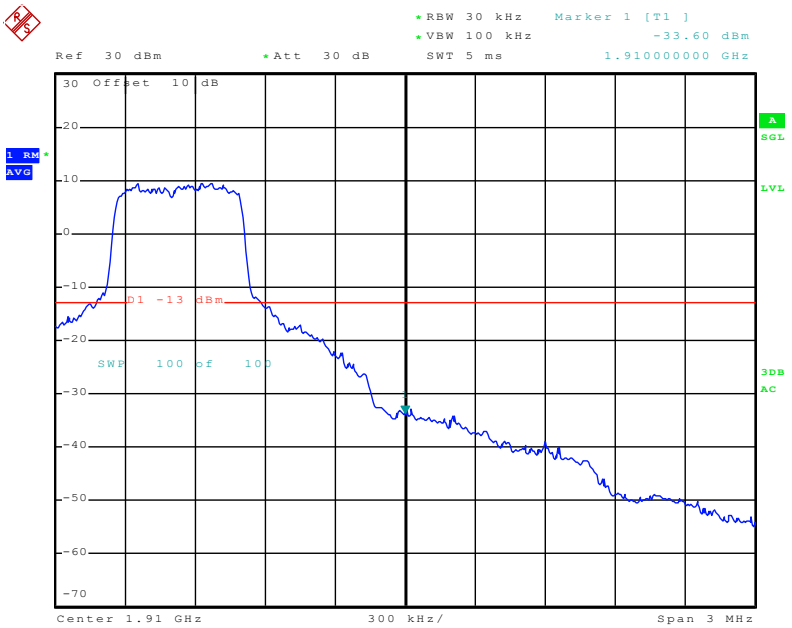
Highest channel

Test Mode: LTE band 2(QPSK RB Size 3 & RB Offset 0)



Date: 17.JAN.2015 10:56:51

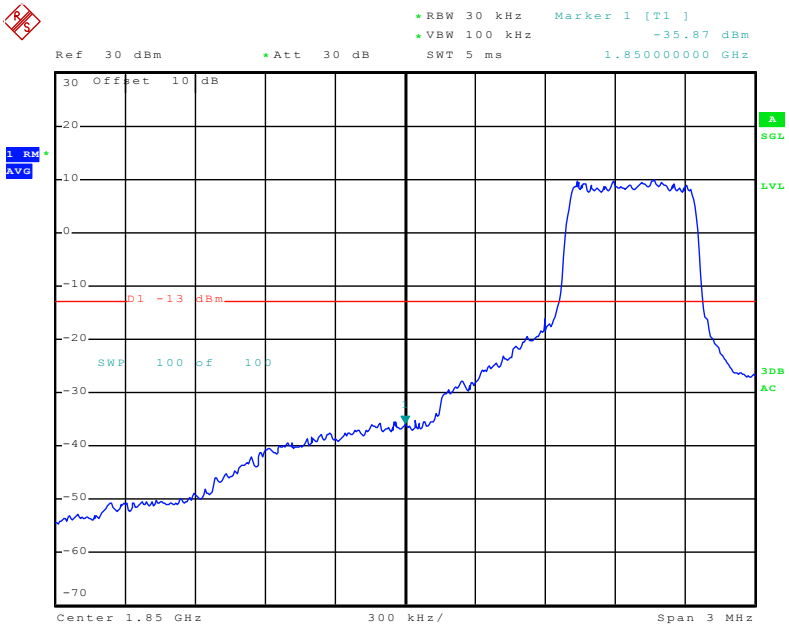
Lowest channel



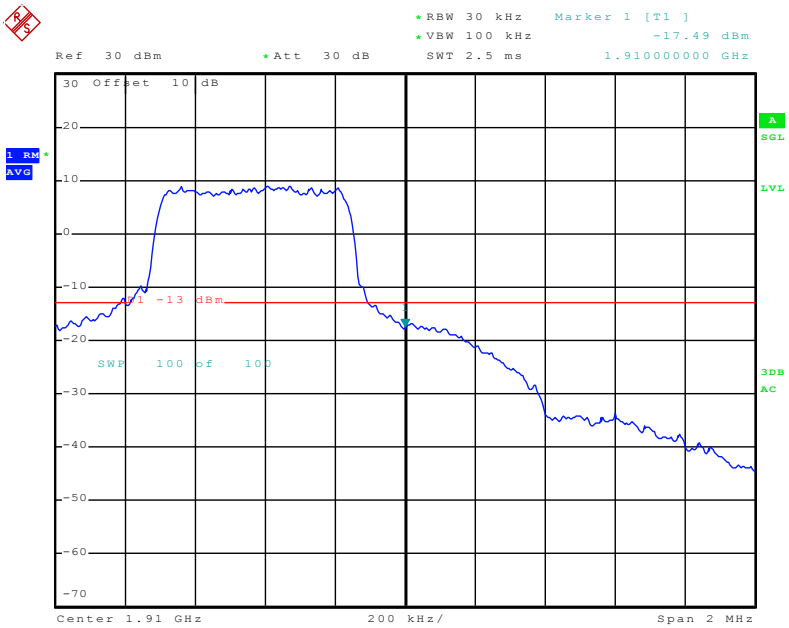
Date: 17.JAN.2015 11:08:21

Highest channel

Test Mode: LTE band 2(QPSK RB Size 3 & RB Offset 2)

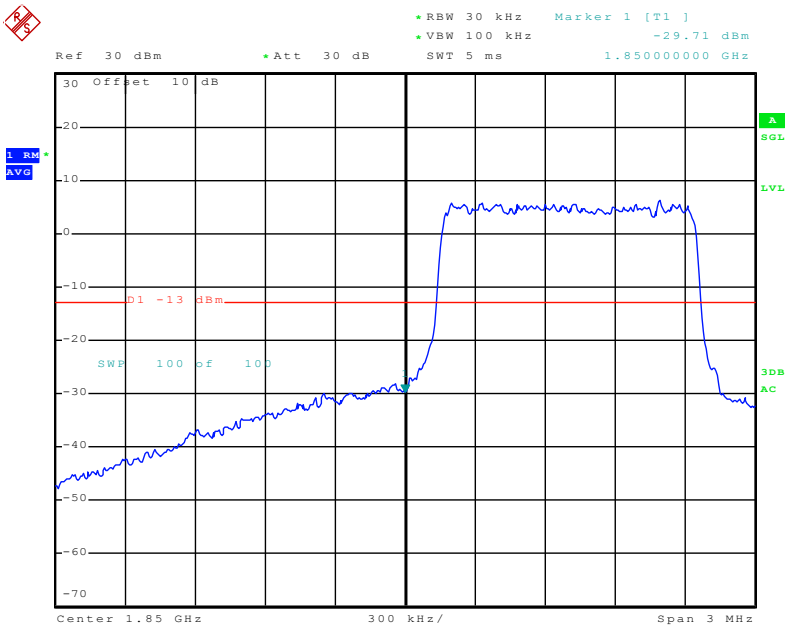


Lowest channel



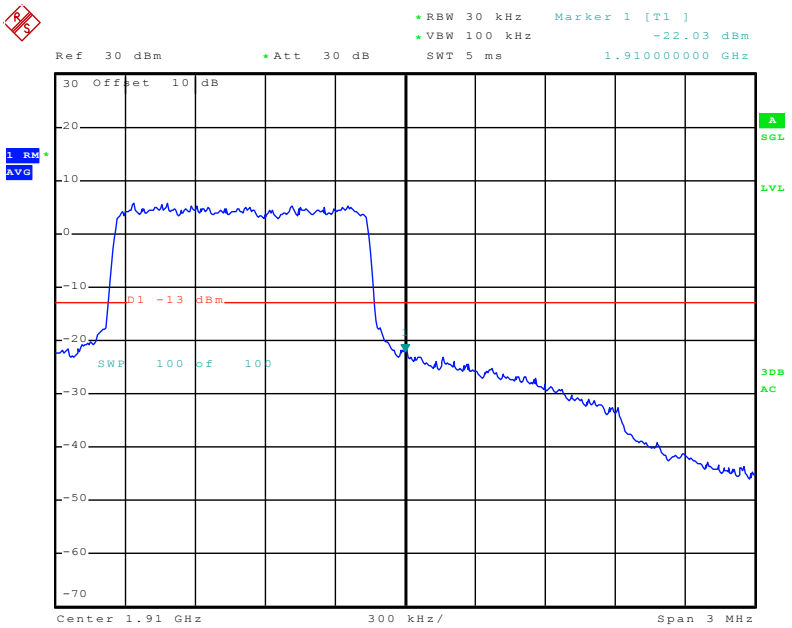
Highest channel

Test Mode: LTE band 2(QPSK RB Size 6 & RB Offset 0)



Date: 17.JAN.2015 10:58:24

Lowest channel

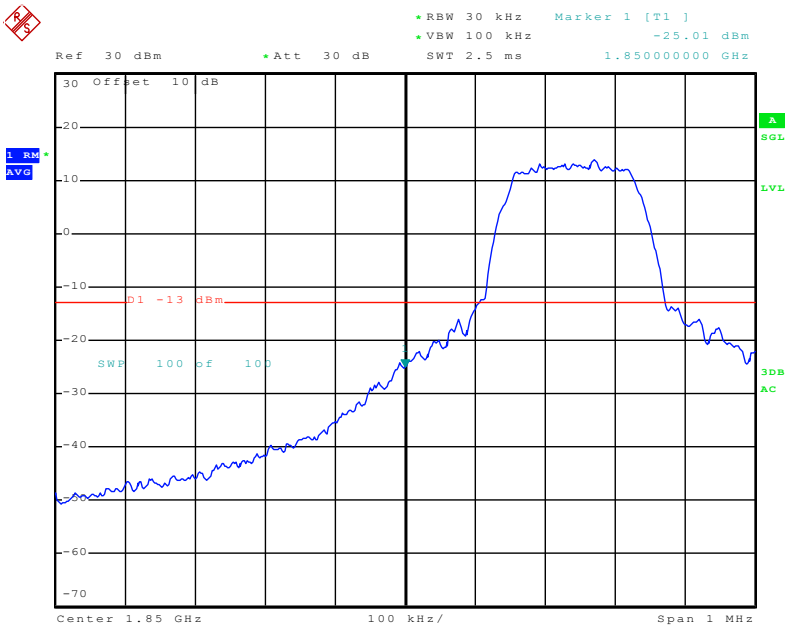


Date: 17.JAN.2015 11:09:35

Highest channel

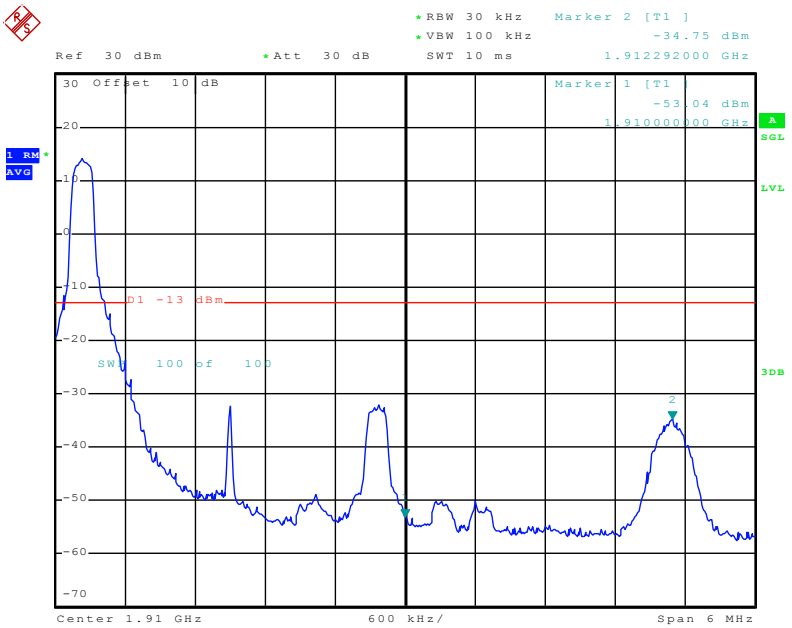
3MHz

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



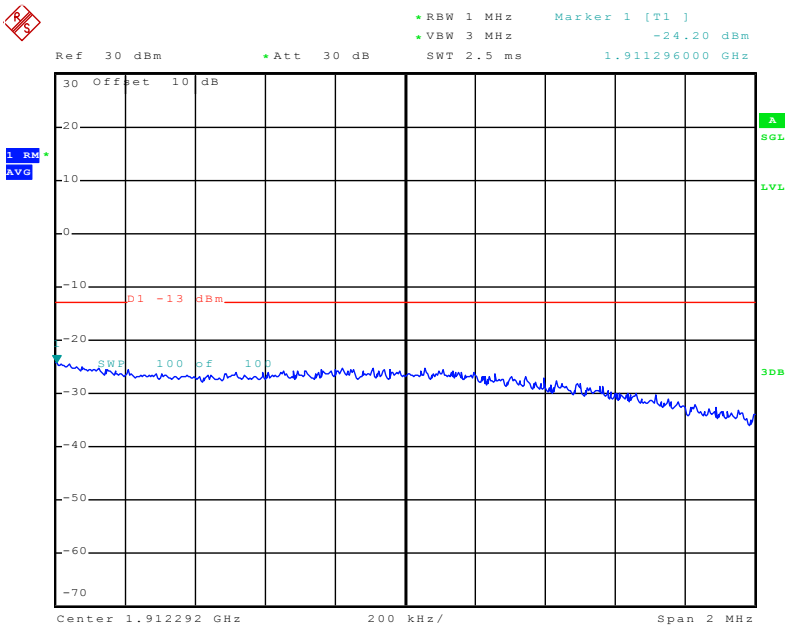
Date: 17.JAN.2015 11:33:38

Lowest channel



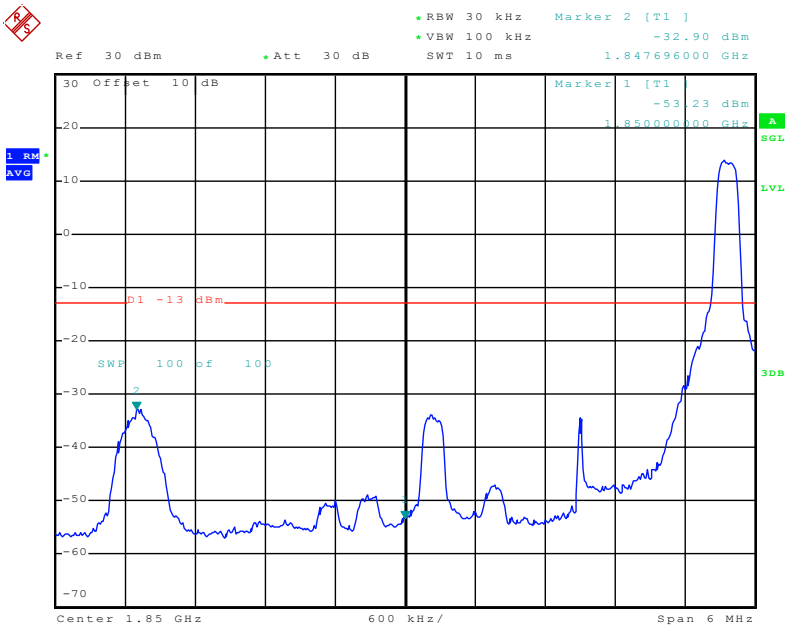
Date: 21.JAN.2015 07:47:09

Highest channel



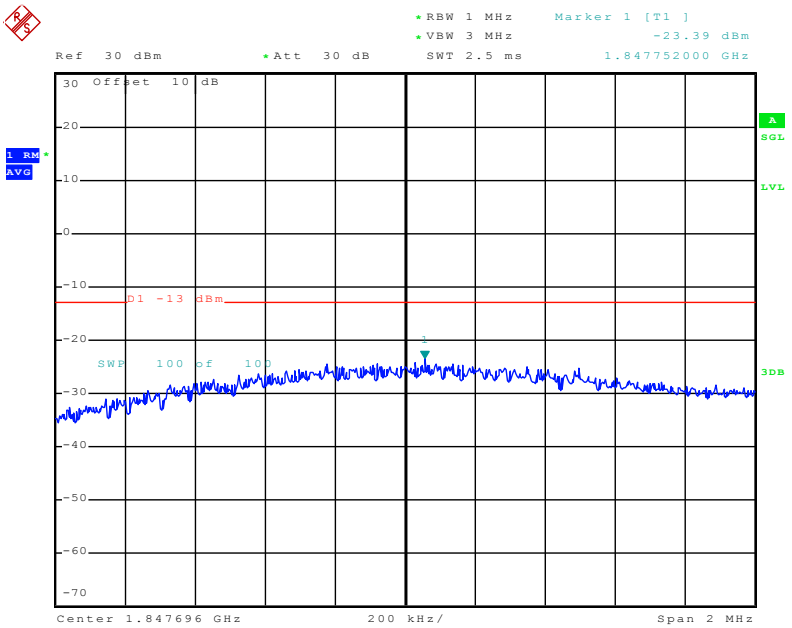
Date: 21.JAN.2015 07:47:34

Test Mode: LTE band 2(16QAM RB Size 1 & RB Offset 14)

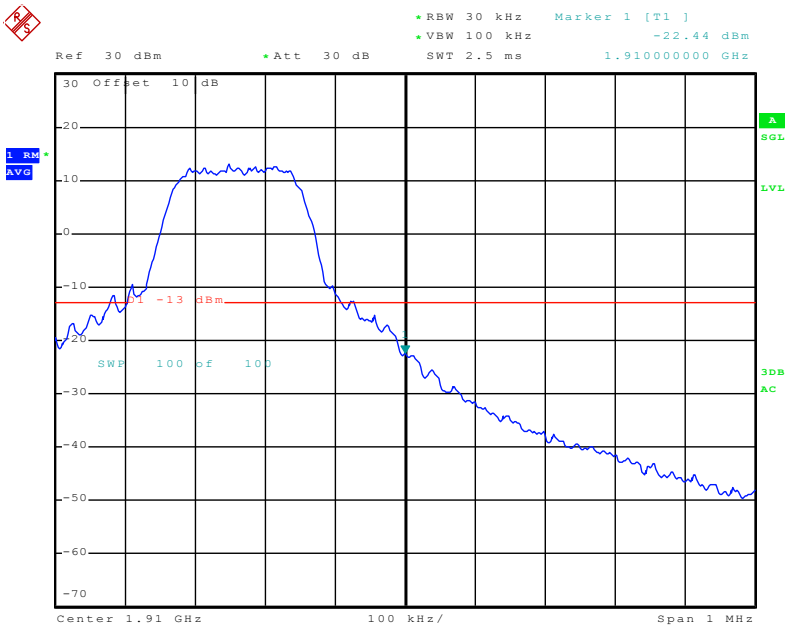


Date: 21.JAN.2015 07:42:54

Lowest channel



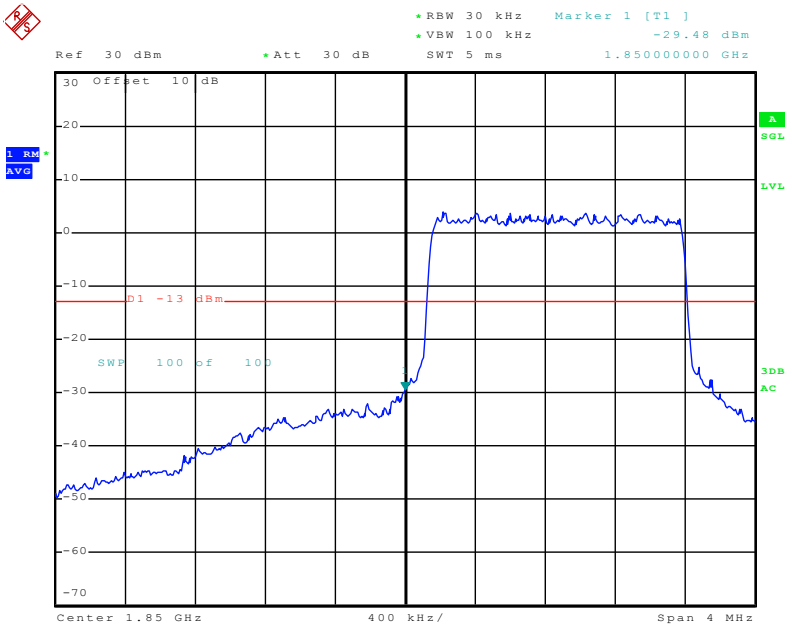
Date: 21.JAN.2015 07:43:22



Date: 17.JAN.2015 11:48:30

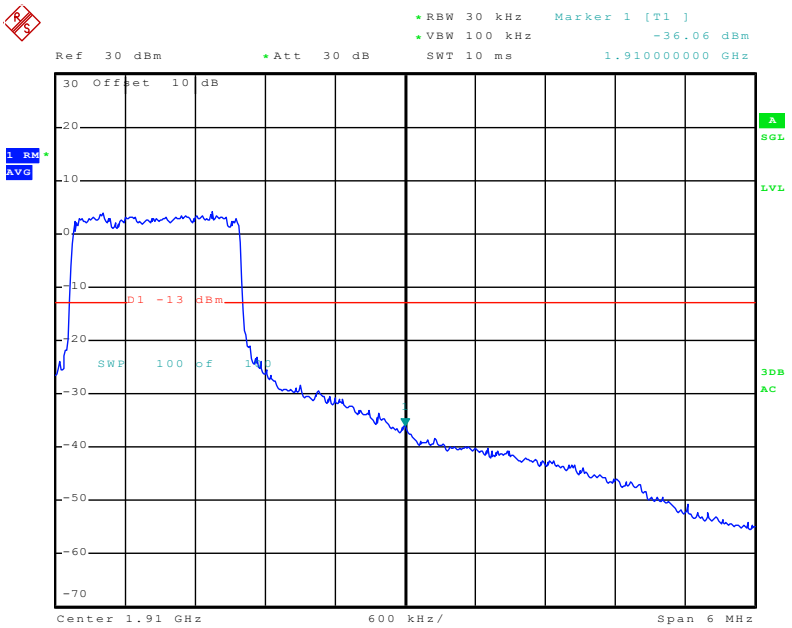
Highest channel

Test Mode: LTE band 2(16QAM RB Size 8 & RB Offset 0)



Date: 17.JAN.2015 11:35:30

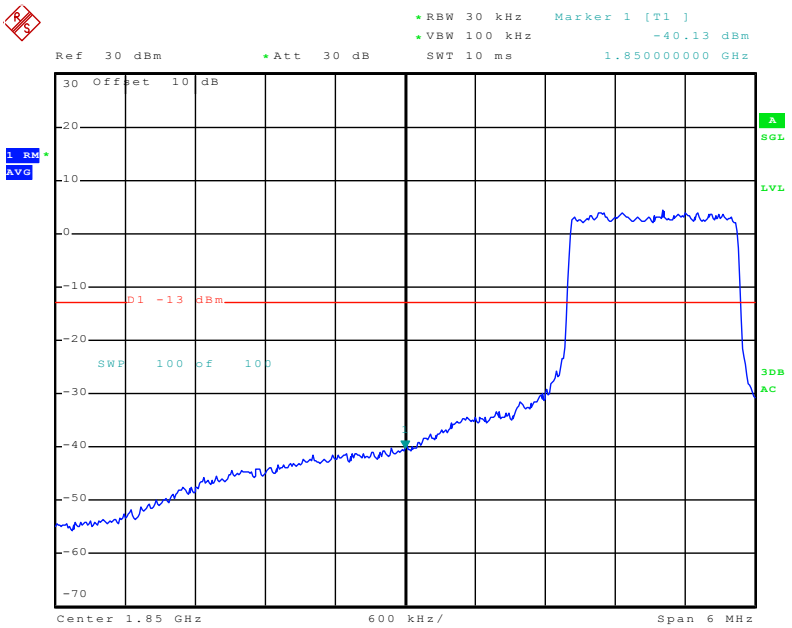
Lowest channel



Date: 17.JAN.2015 11:48:56

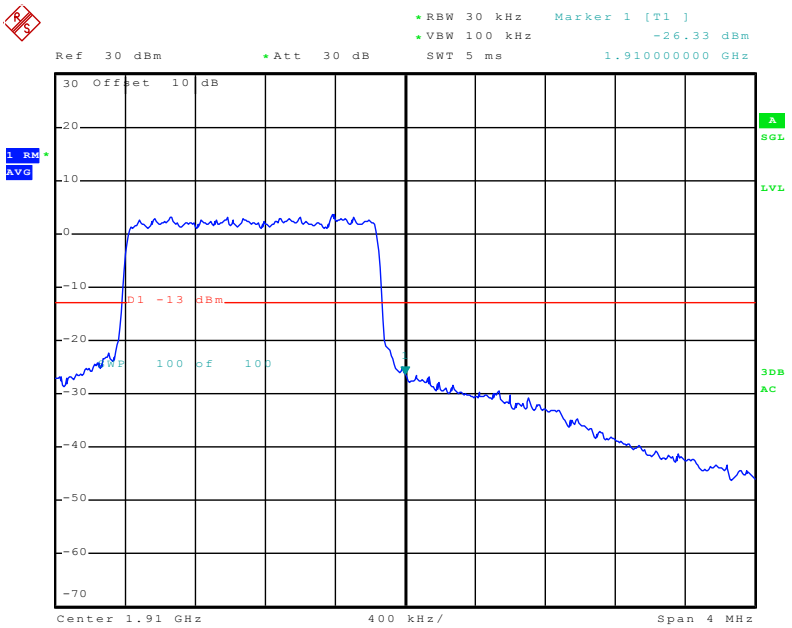
Highest channel

Test Mode: LTE band 2(16QAM RB Size 8 & RB Offset 7)



Date: 17.JAN.2015 11:36:18

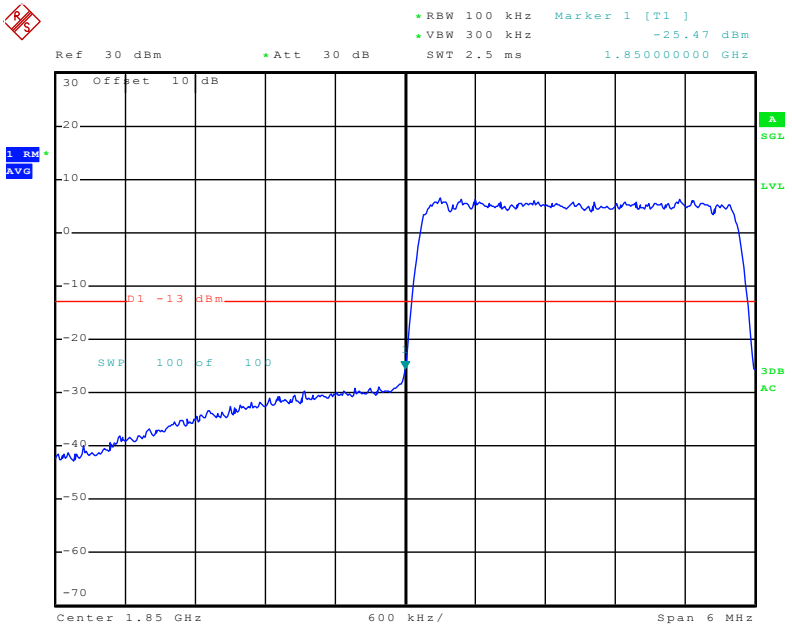
Lowest channel



Date: 17.JAN.2015 11:49:22

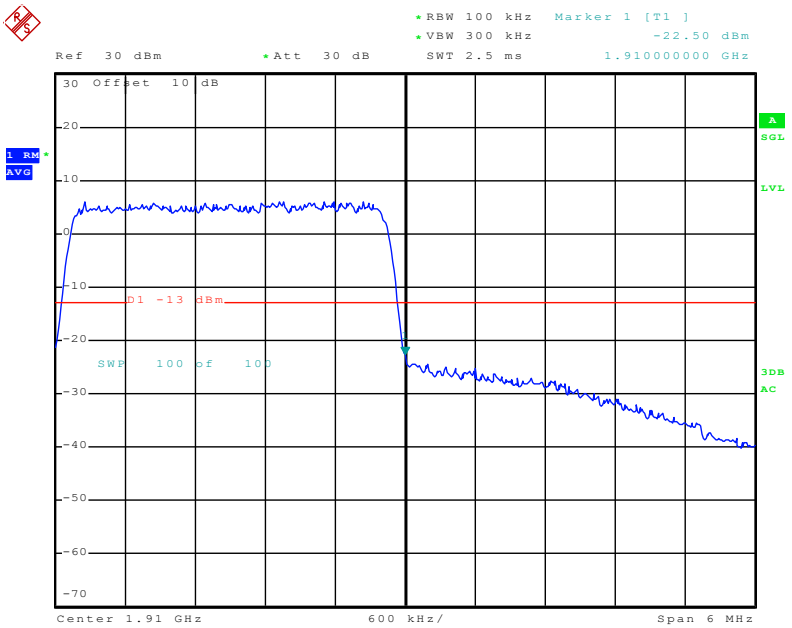
Highest channel

Test Mode: LTE band 2(16QAM RB Size 15 & RB Offset 0)



Date: 17.JAN.2015 11:55:58

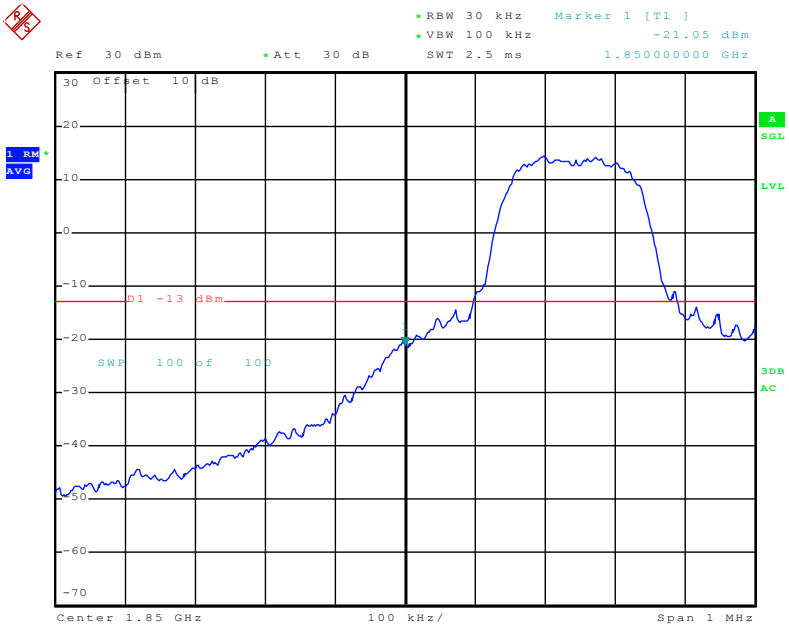
Lowest channel



Date: 17.JAN.2015 11:50:07

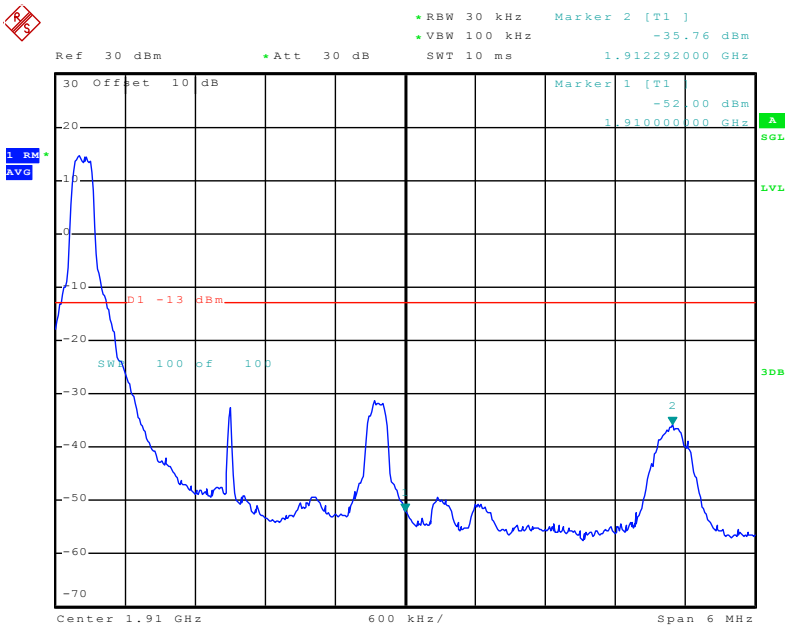
Highest channel

Test Mode: LTE band 2(QPSK RB Size 1 & RB Offset 0)



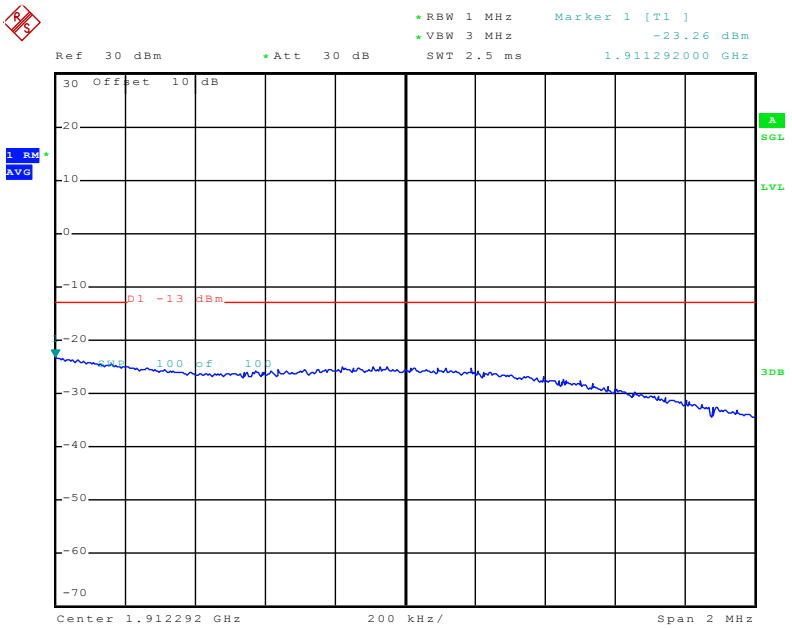
Date: 17.JAN.2015 11:24:25

Lowest channel



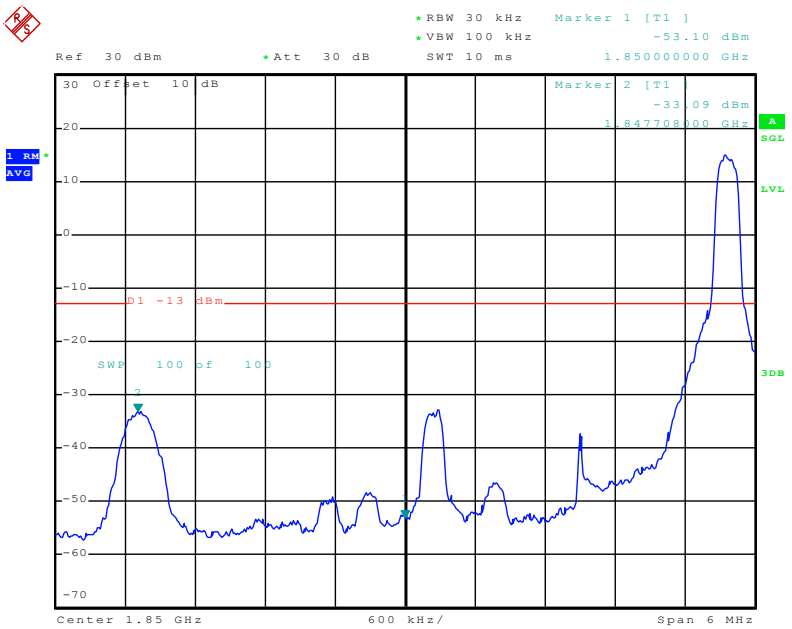
Date: 21.JAN.2015 07:45:33

Highest channel



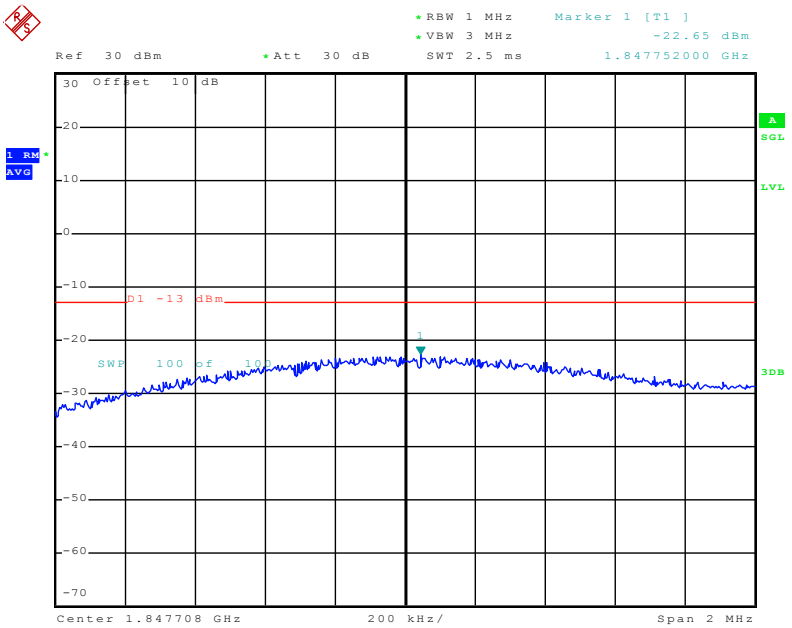
Date: 21.JAN.2015 07:46:00

Test Mode: LTE band 2(QPSK RB Size 1 & RB Offset 14)

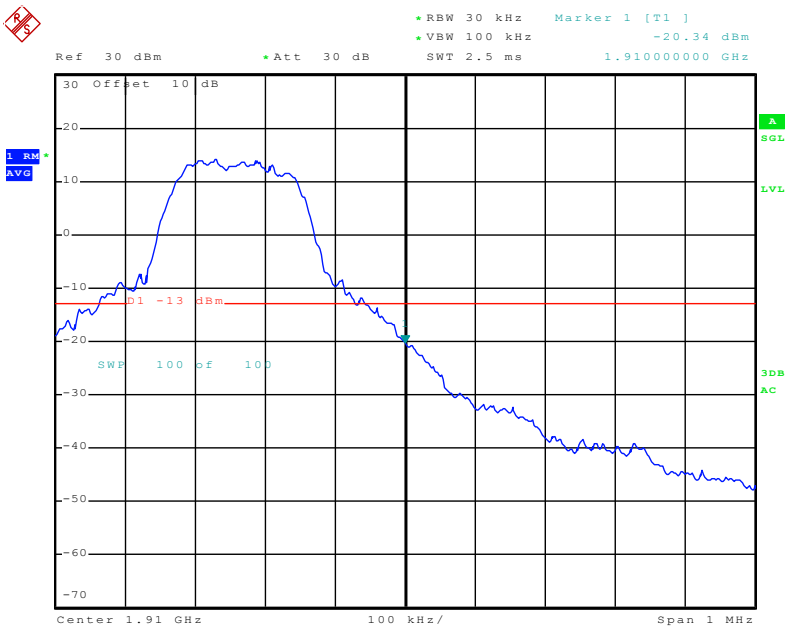


Date: 21.JAN.2015 07:40:53

Lowest channel



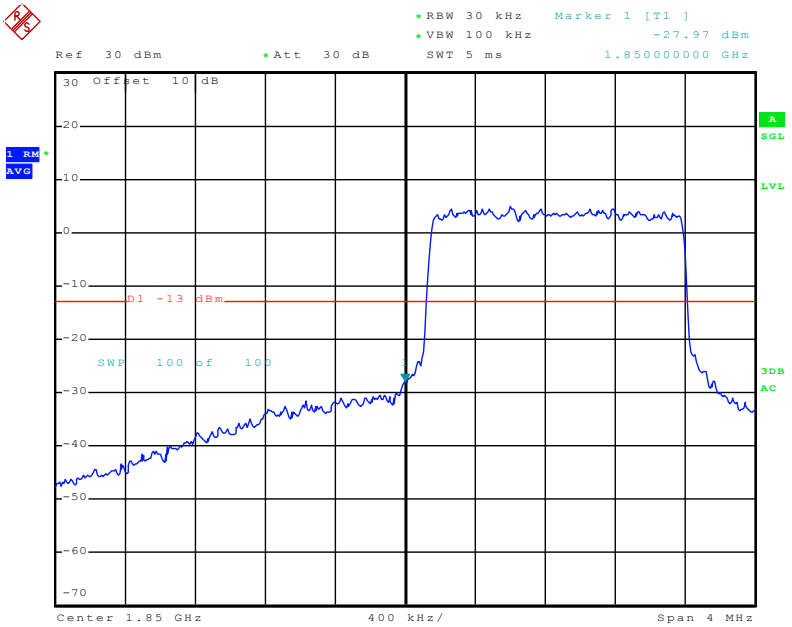
Date: 21.JAN.2015 07:41:30



Date: 17.JAN.2015 11:42:27

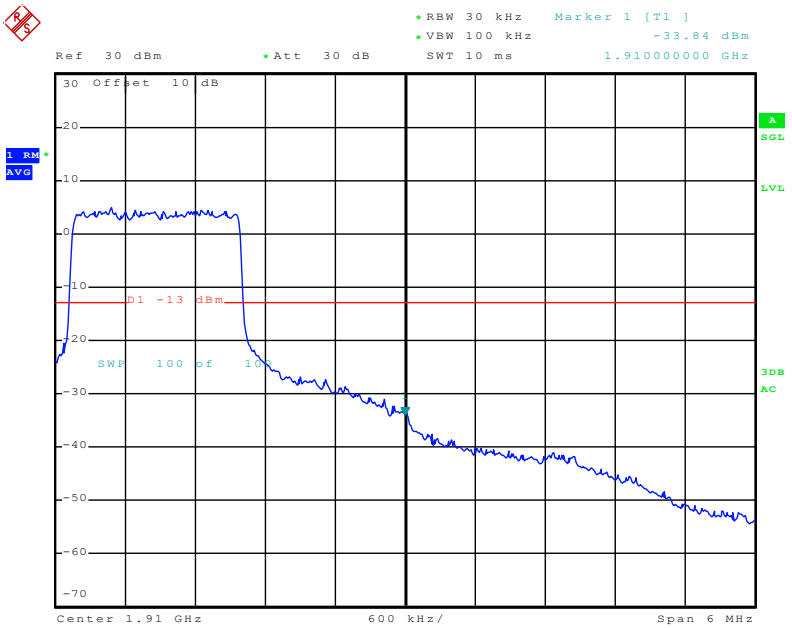
Highest channel

Test Mode: LTE band 2(QPSK RB Size 8 & RB Offset 0)



Date: 17.JAN.2015 11:31:02

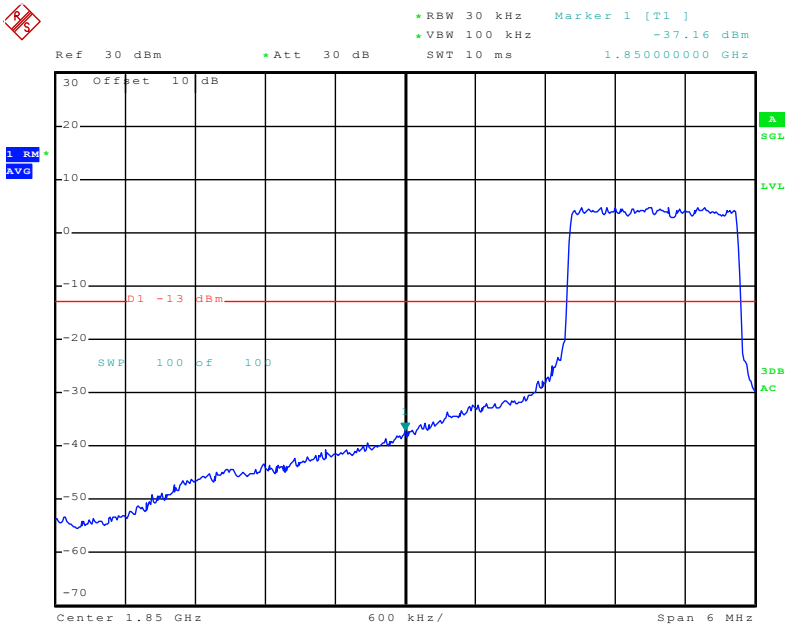
Lowest channel



Date: 17.JAN.2015 11:43:11

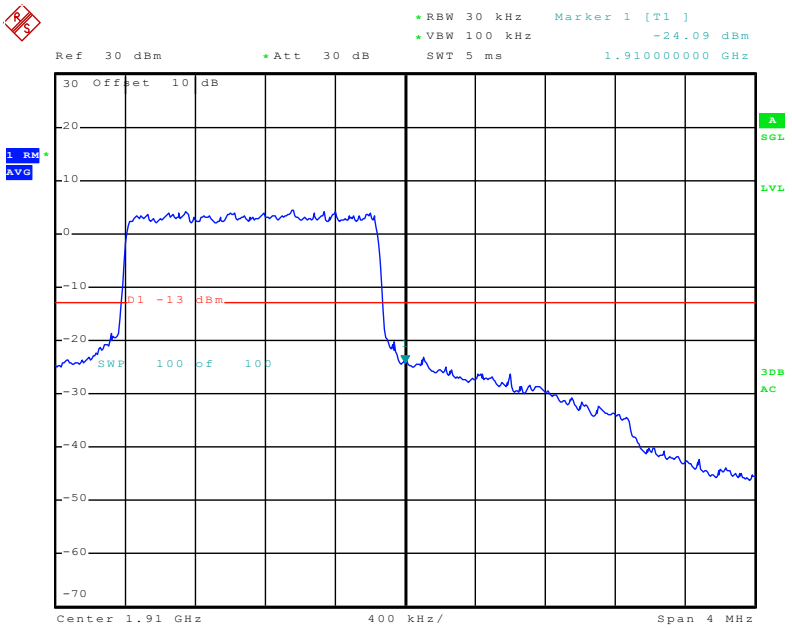
Highest channel

Test Mode: LTE band 2(QPSK RB Size 8 & RB Offset 7)



Date: 17.JAN.2015 11:30:04

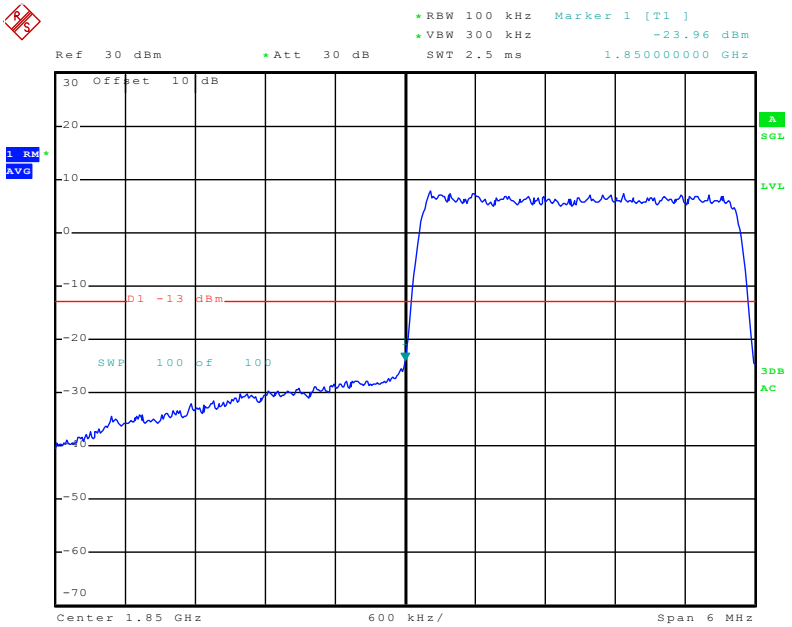
Lowest channel



Date: 17.JAN.2015 11:43:48

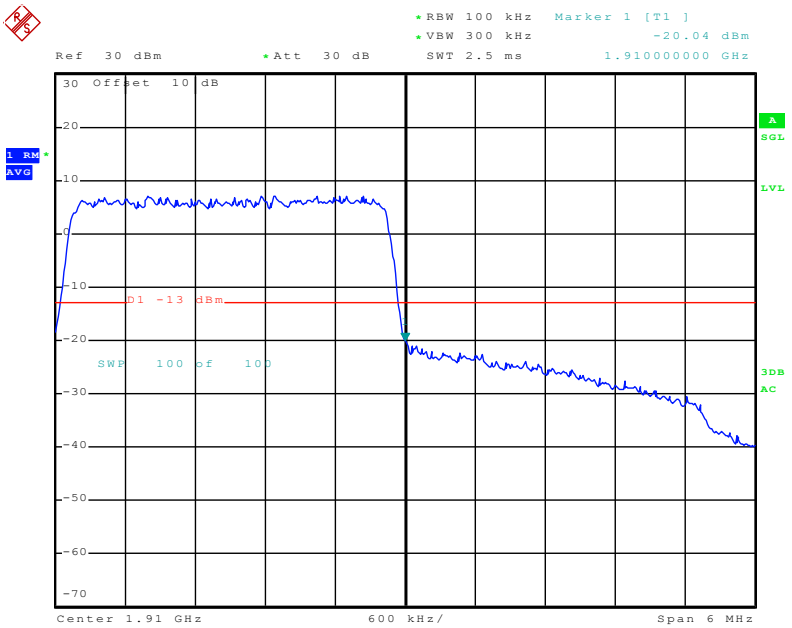
Highest channel

Test Mode: LTE band 2(QPSK RB Size 15 & RB Offset 0)



Date: 17.JAN.2015 11:32:17

Lowest channel

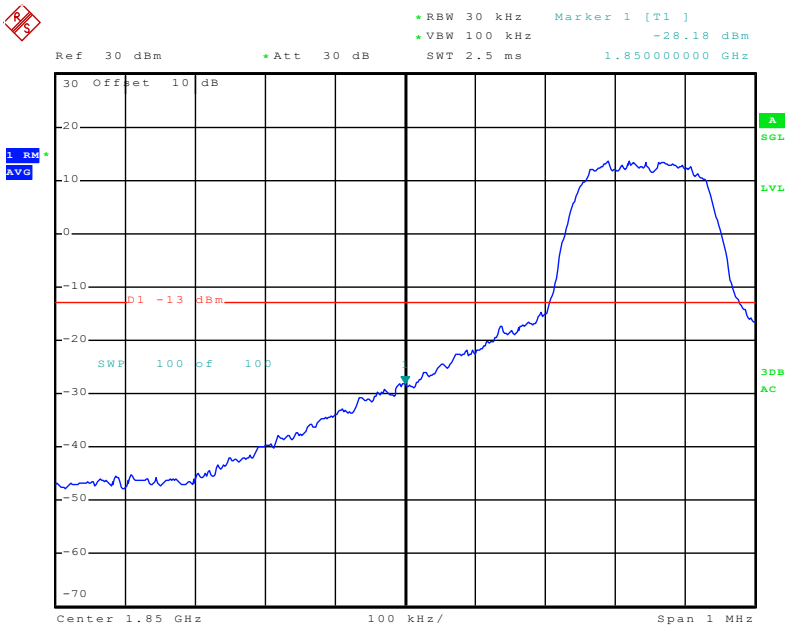


Date: 17.JAN.2015 11:44:43

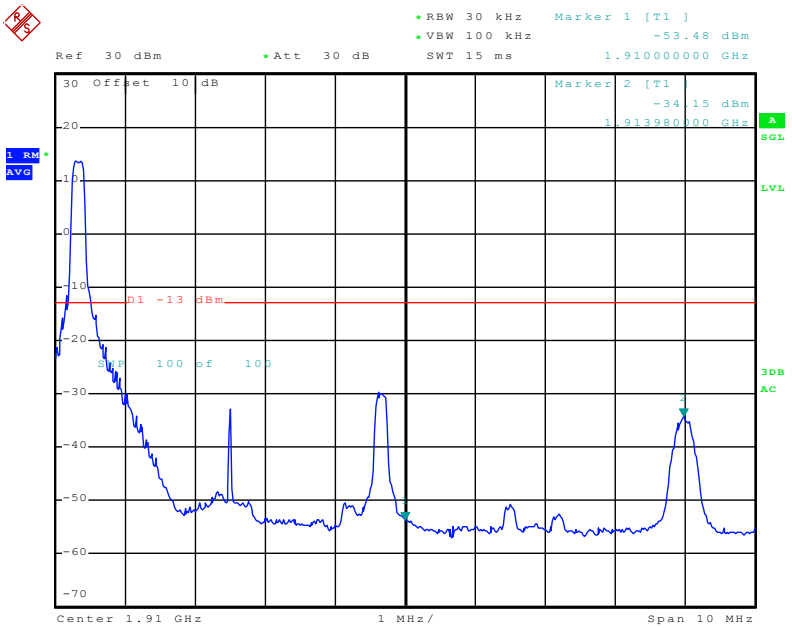
Highest channel

5MHz

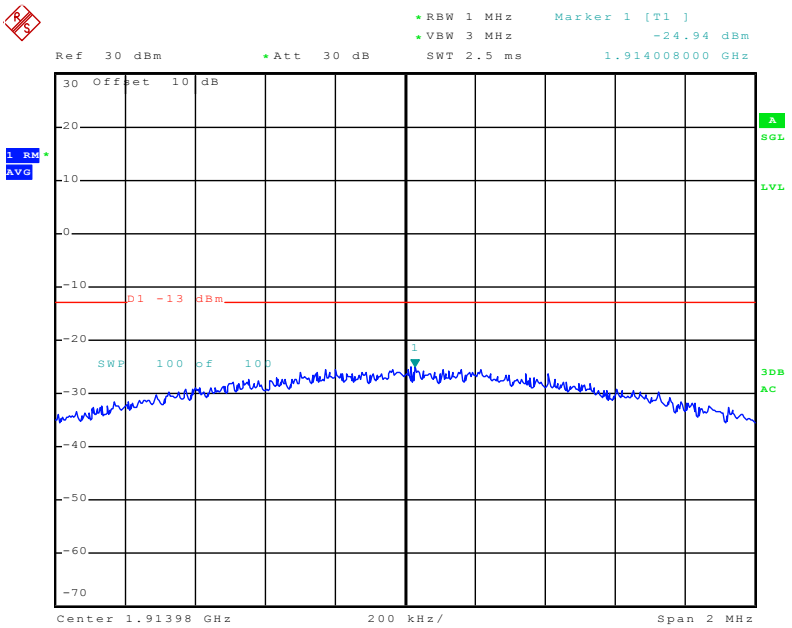
Test Mode: LTE band 2(16QAM RB Size 1 & RB Offset 0)



Lowest channel

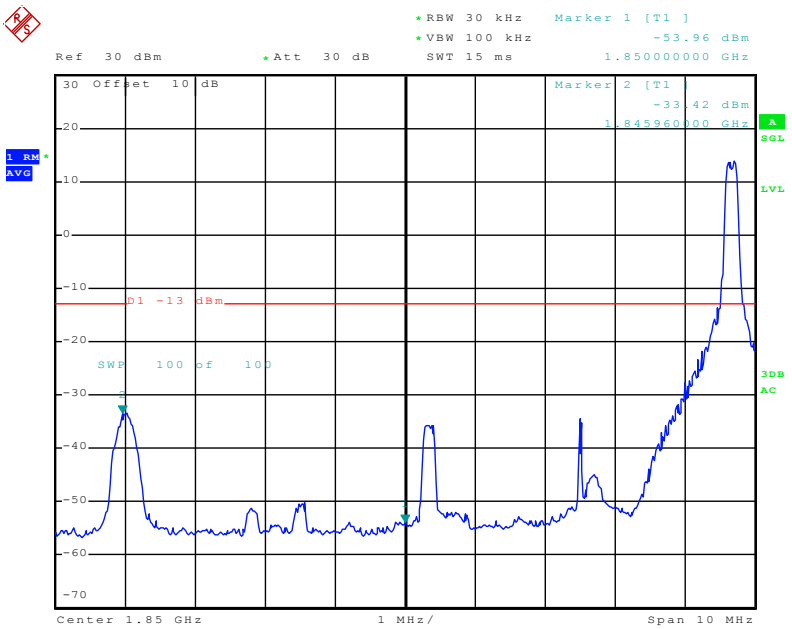


Highest channel



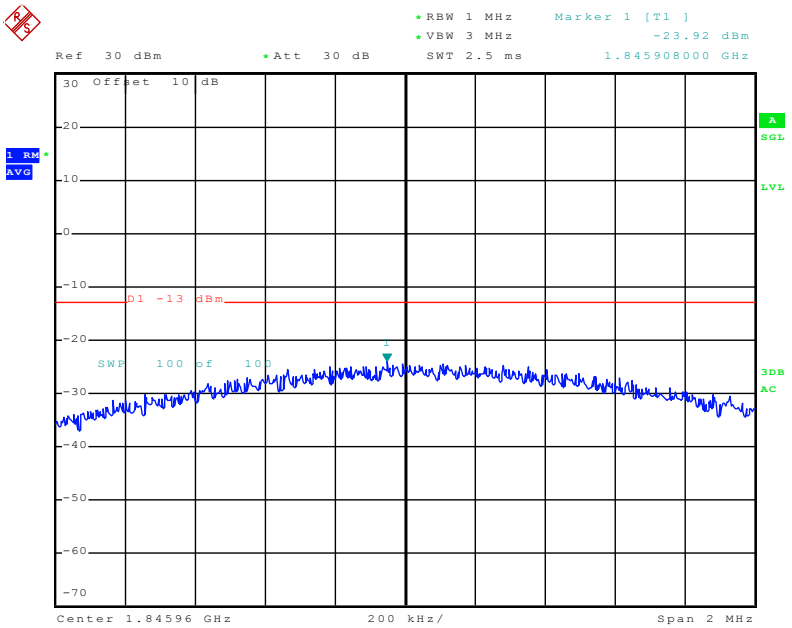
Date: 17.JAN.2015 13:04:22

Test Mode: LTE band 2(16QAM RB Size 1 & RB Offset 24)

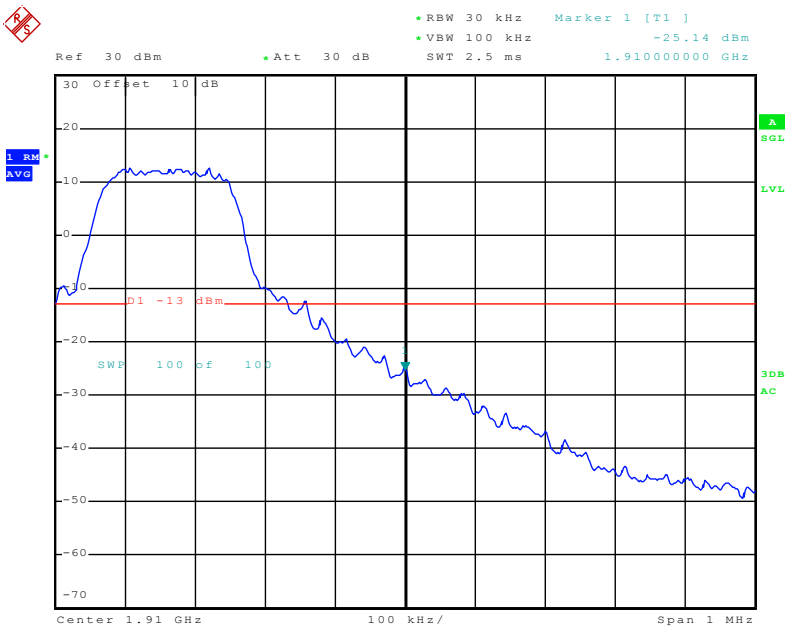


Date: 17.JAN.2015 12:57:22

Lowest channel



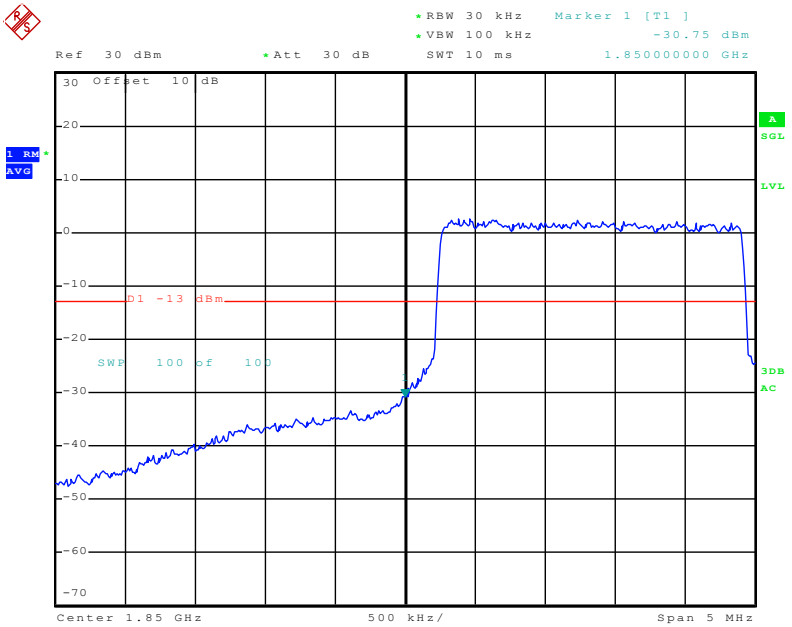
Date: 17.JAN.2015 12:58:20



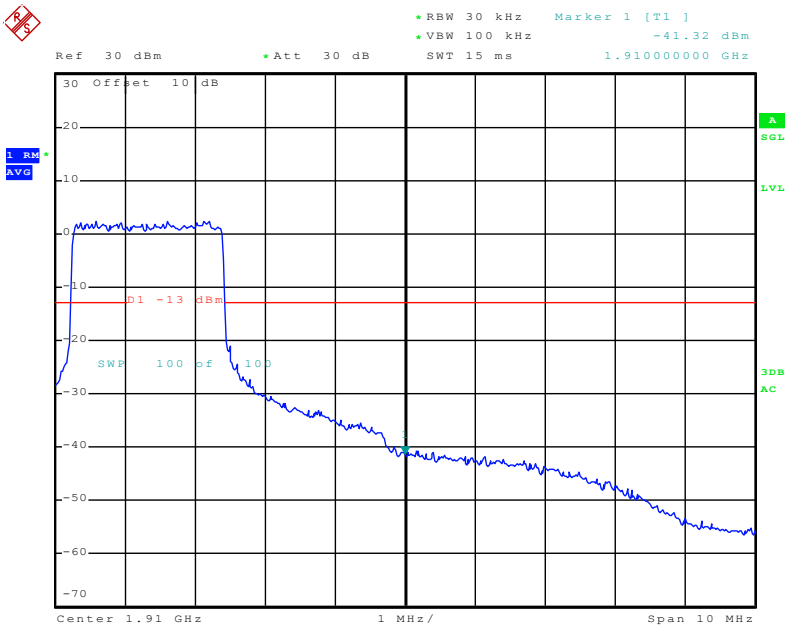
Date: 17.JAN.2015 13:06:48

Highest channel

Test Mode: LTE band 2(16QAM RB Size 12 & RB Offset 0)

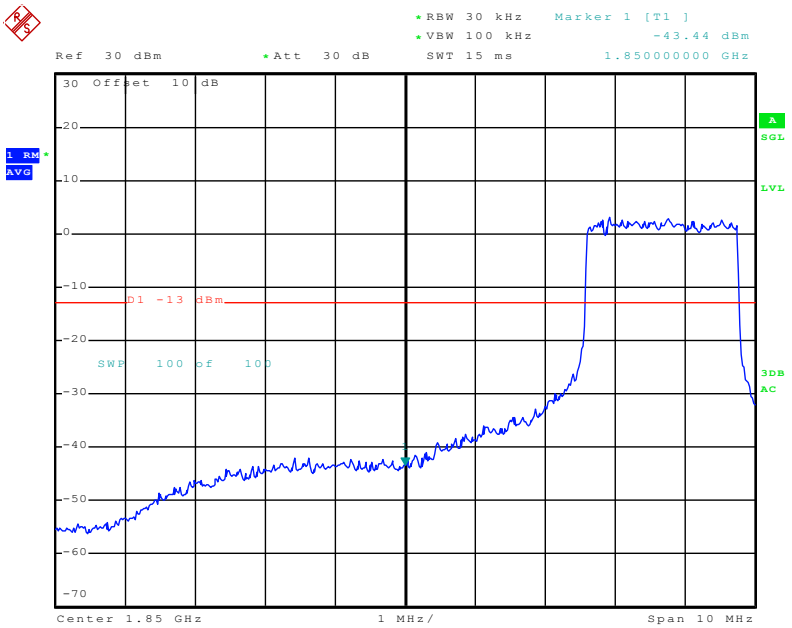


Lowest channel



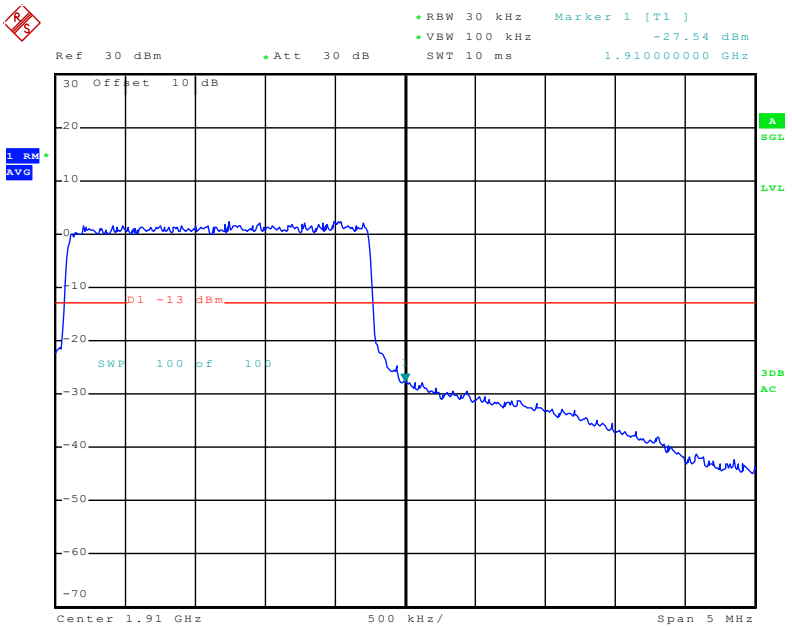
Highest channel

Test Mode: LTE band 2(16QAM RB Size 12 & RB Offset 11)



Date: 17.JAN.2015 12:59:45

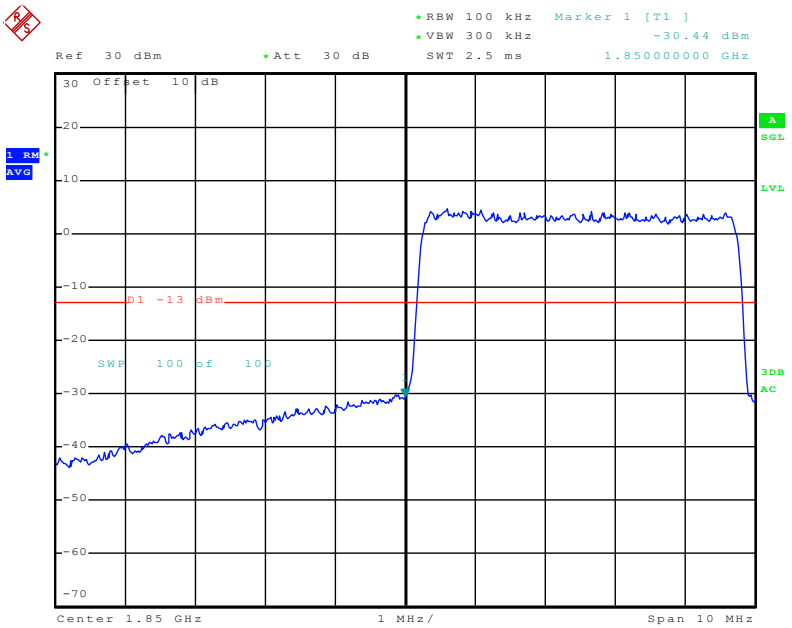
Lowest channel



Date: 17.JAN.2015 13:02:33

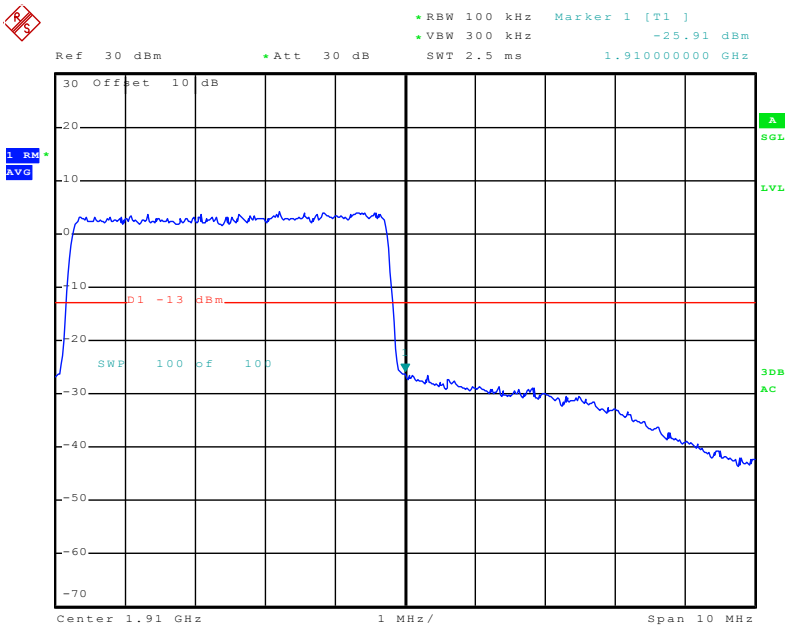
Highest channel

Test Mode: LTE band 2(16QAM RB Size 25 & RB Offset 0)



Date: 17.JAN.2015 13:00:17

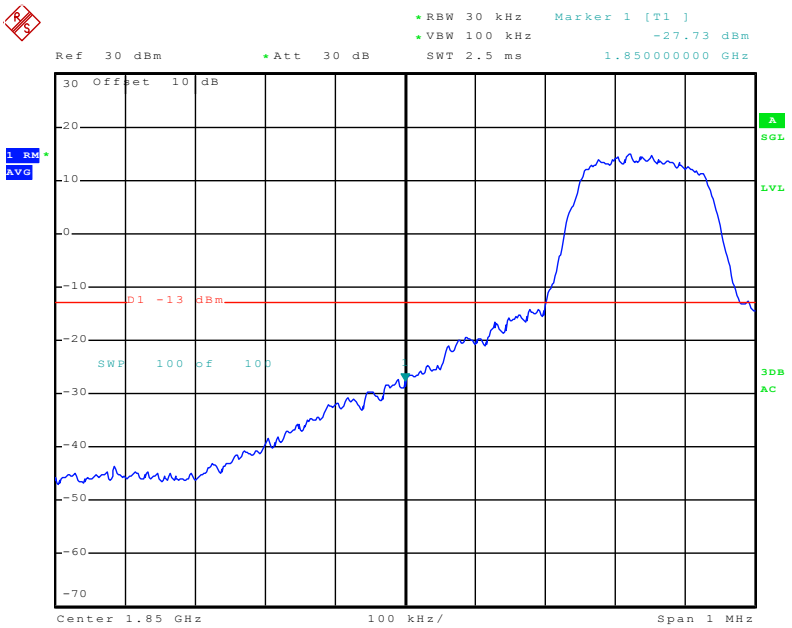
Lowest channel



Date: 17.JAN.2015 13:01:21

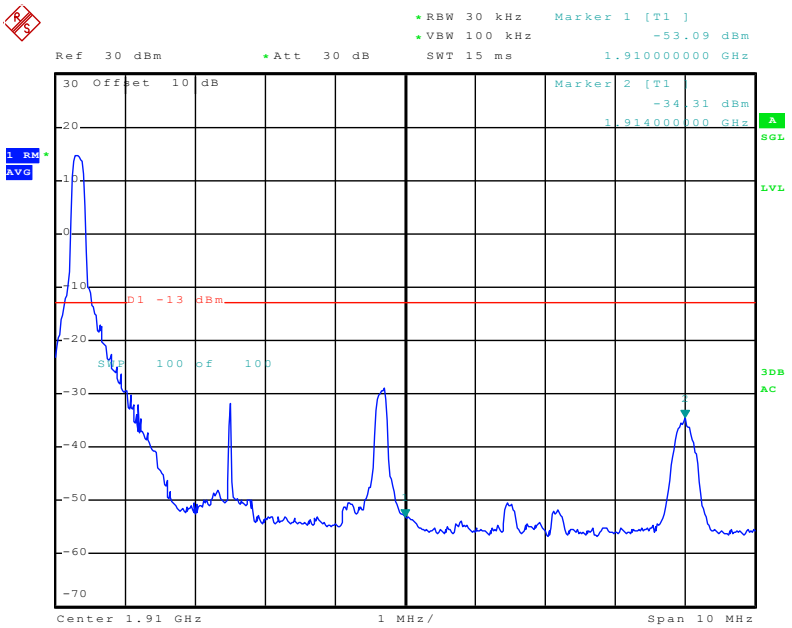
Highest channel

Test Mode: LTE band 2(QPSK RB Size 1 & RB Offset 0)



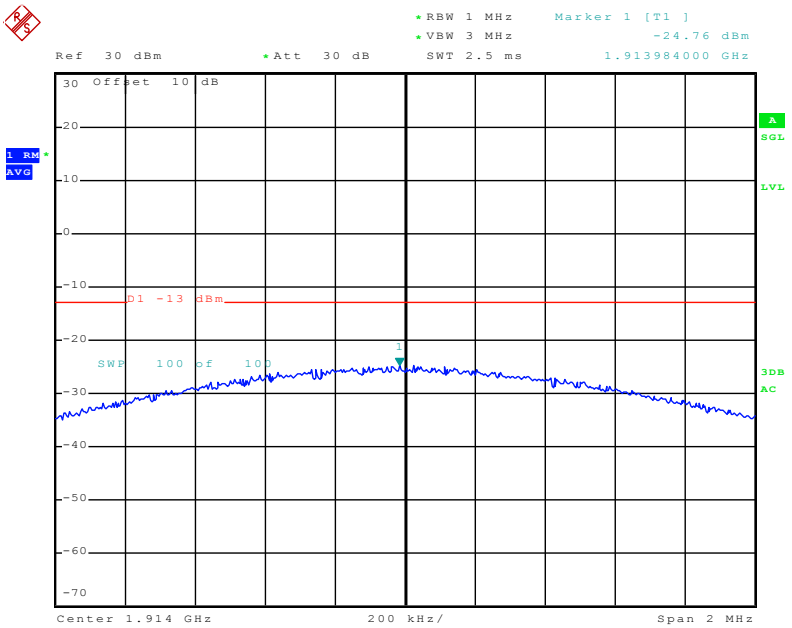
Date: 17.JAN.2015 12:44:09

Lowest channel



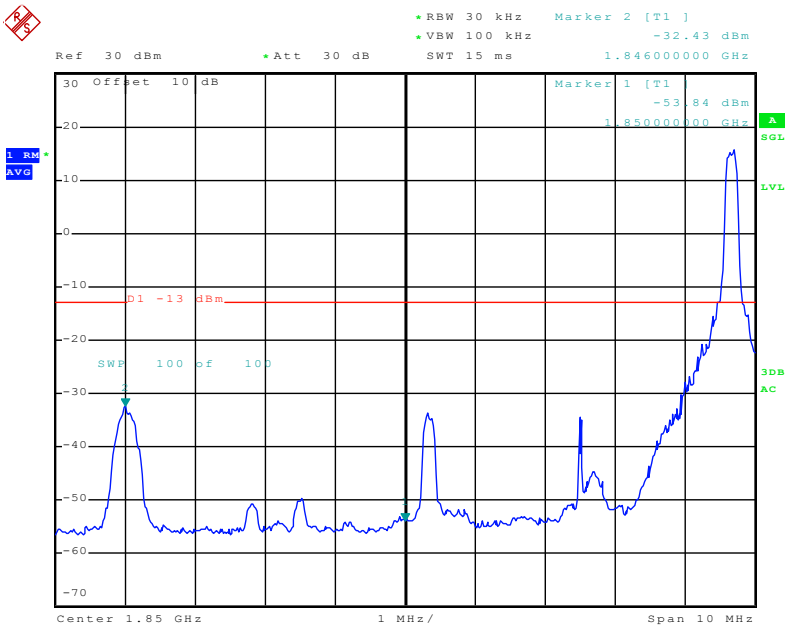
Date: 17.JAN.2015 13:08:29

Highest channel



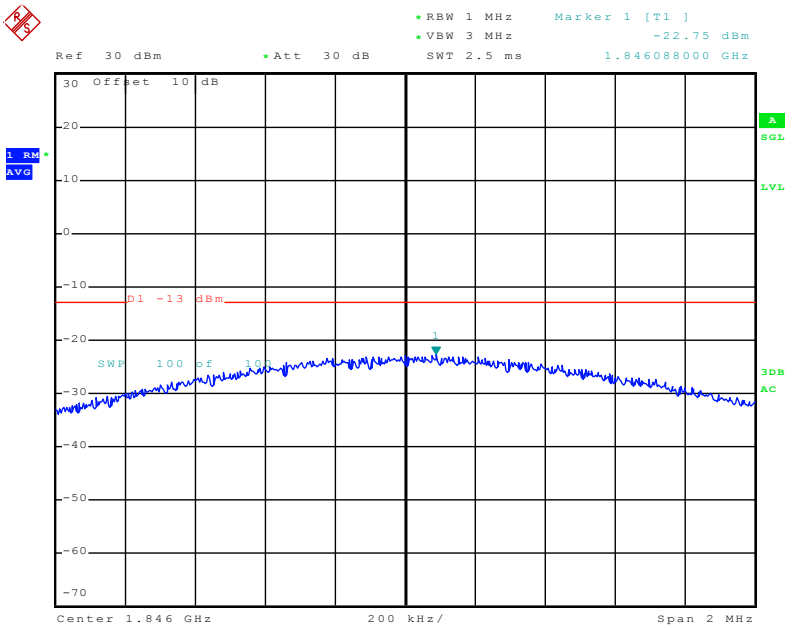
Date: 17.JAN.2015 13:09:05

Test Mode: LTE band 2(QPSK RB Size 1 & RB Offset 24)

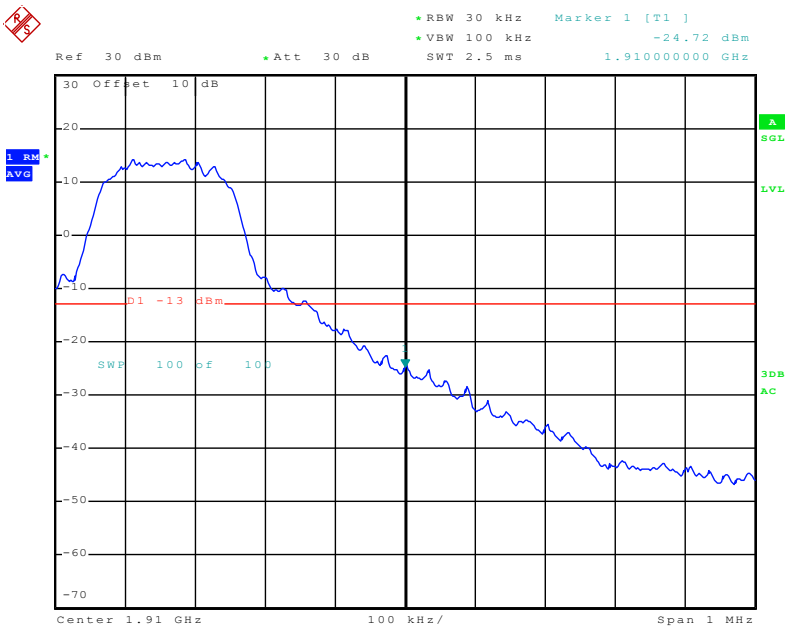


Date: 17.JAN.2015 12:51:55

Lowest channel



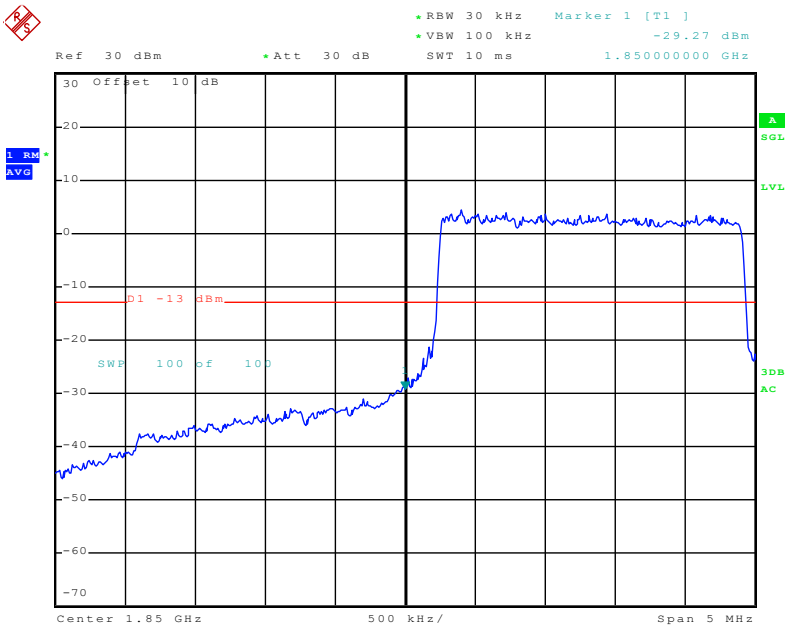
Date: 17.JAN.2015 12:53:05



Date: 17.JAN.2015 13:07:11

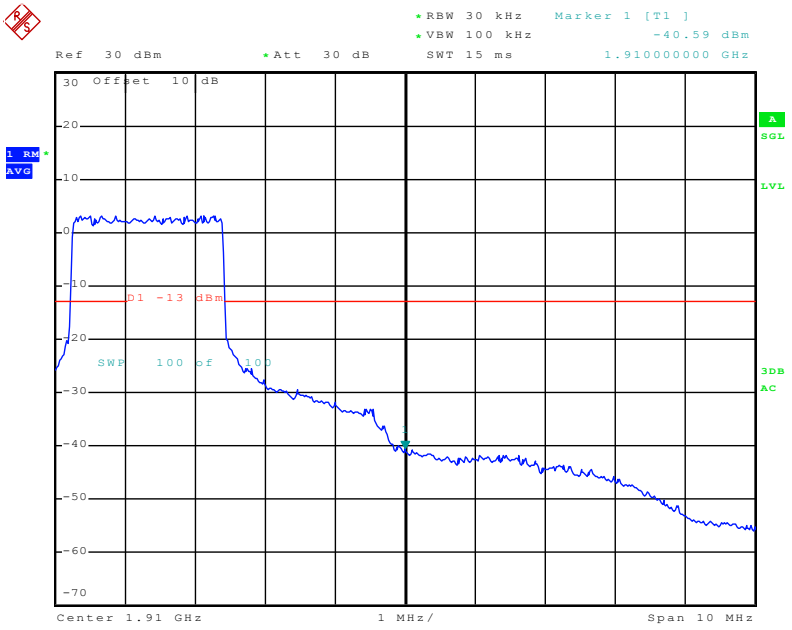
Highest channel

Test Mode: LTE band 2(QPSK RB Size 12 & RB Offset 0)



Date: 17.JAN.2015 12:49:52

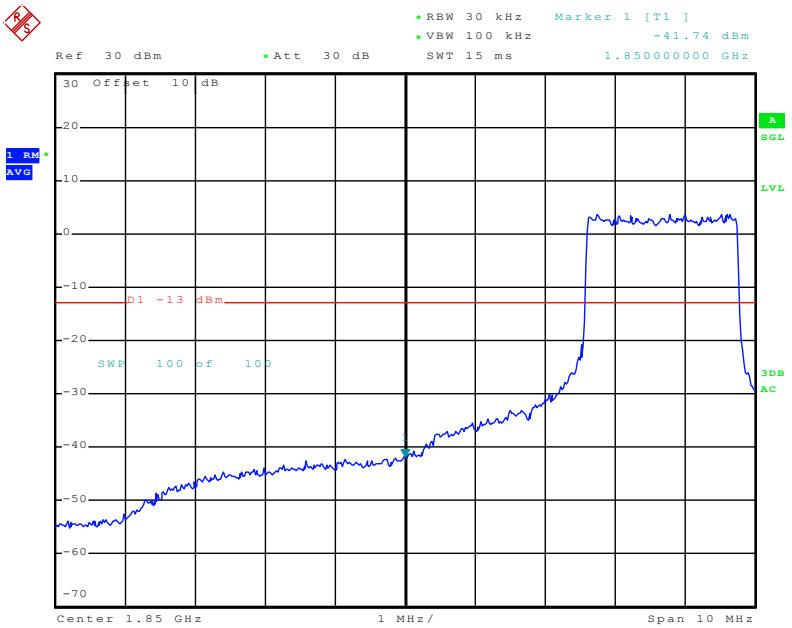
Lowest channel



Date: 17.JAN.2015 13:10:10

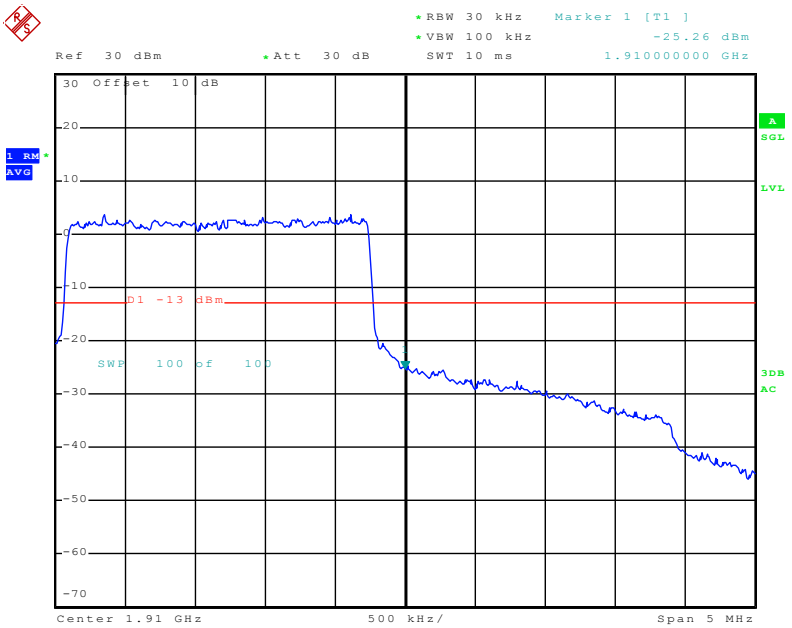
Highest channel

Test Mode: LTE band 2(QPSK RB Size 12 & RB Offset 11)



Date: 17.JAN.2015 12:50:23

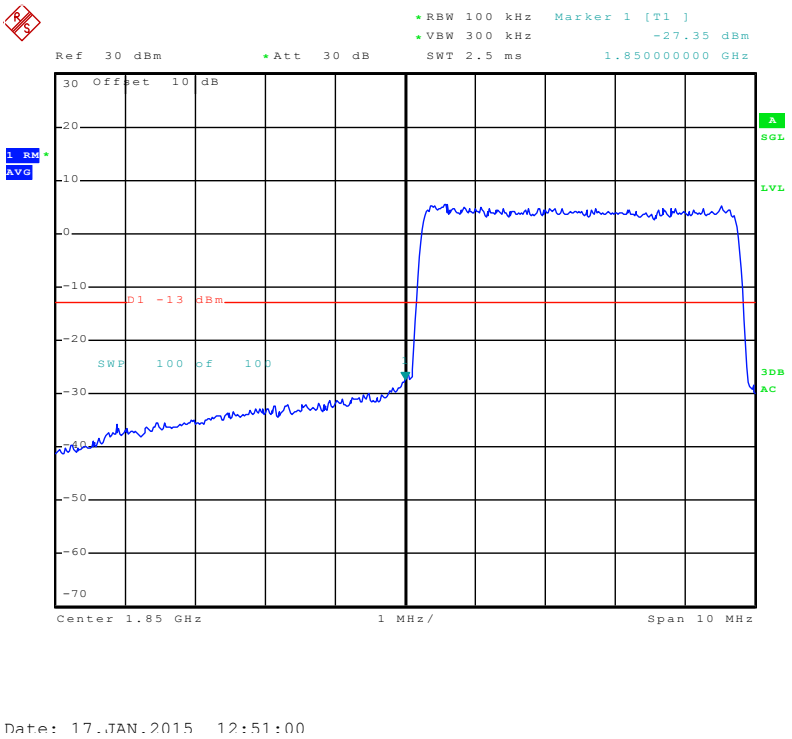
Lowest channel



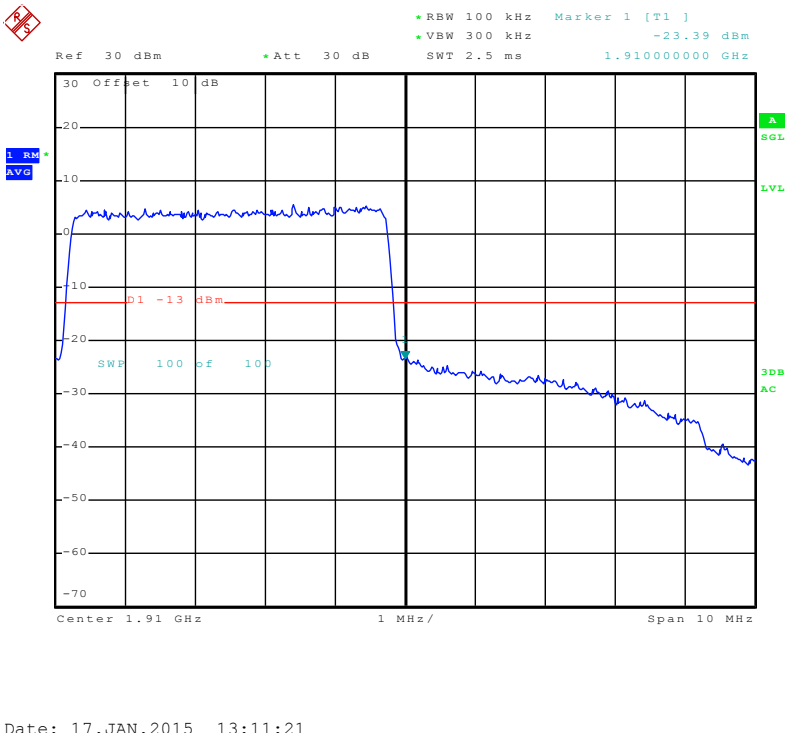
Date: 17.JAN.2015 13:10:37

Highest channel

Test Mode: LTE band 2(QPSK RB Size 25 & RB Offset 0)



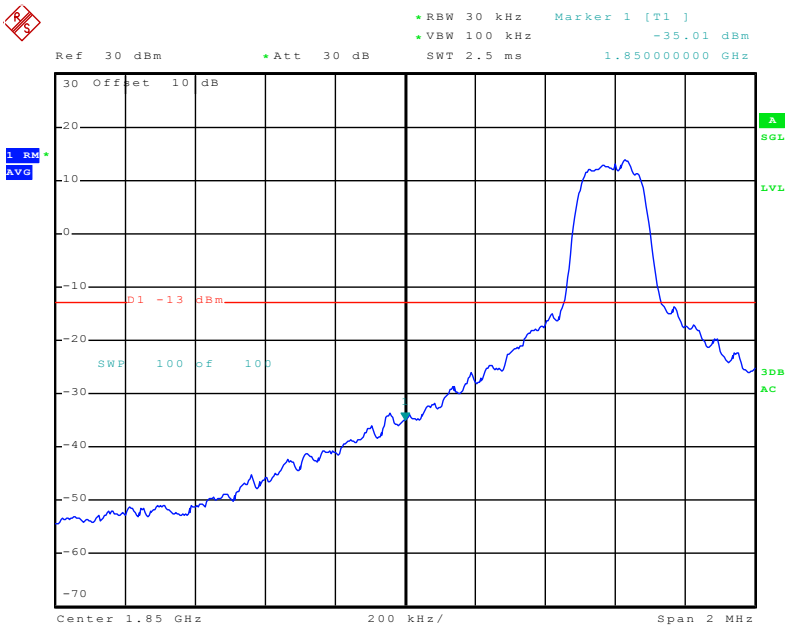
Lowest channel



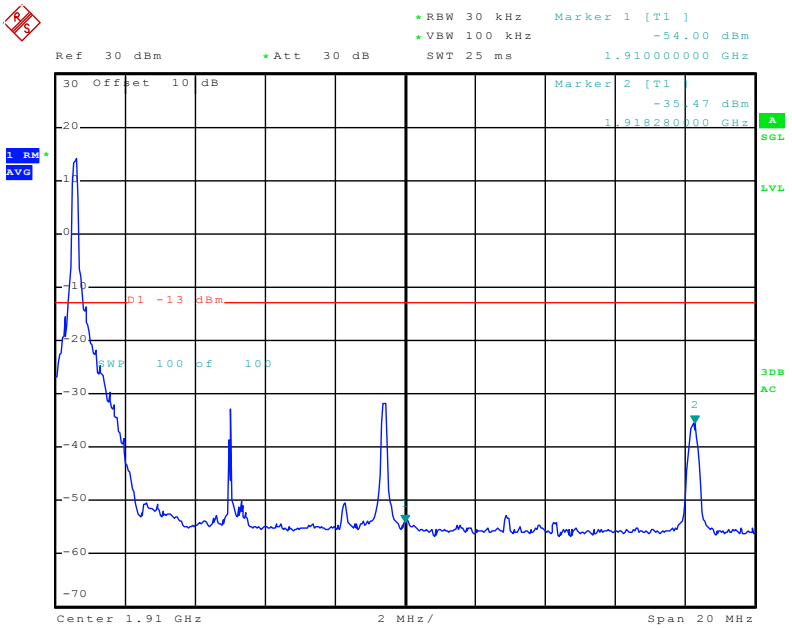
Highest channel

10MHz

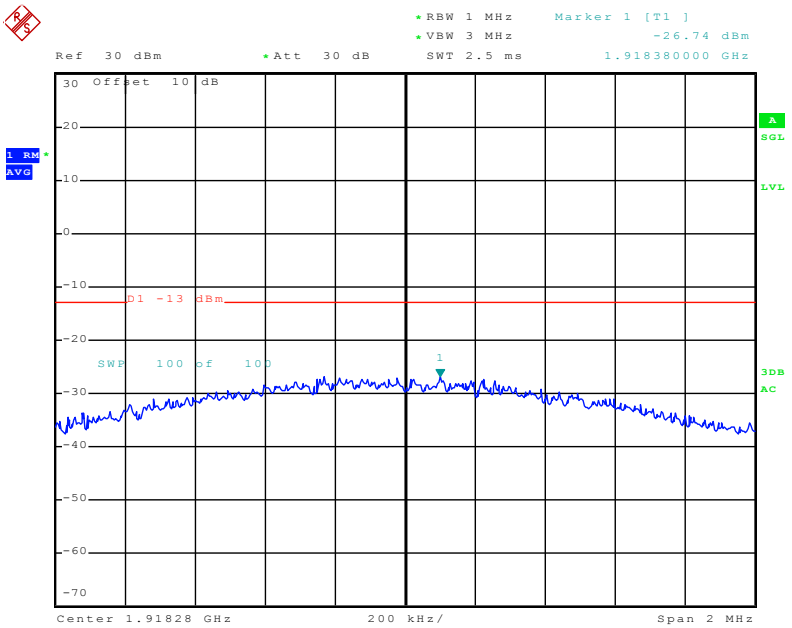
Test Mode: LTE band 2(16QAM RB Size 1 & RB Offset 0)



Lowest channel

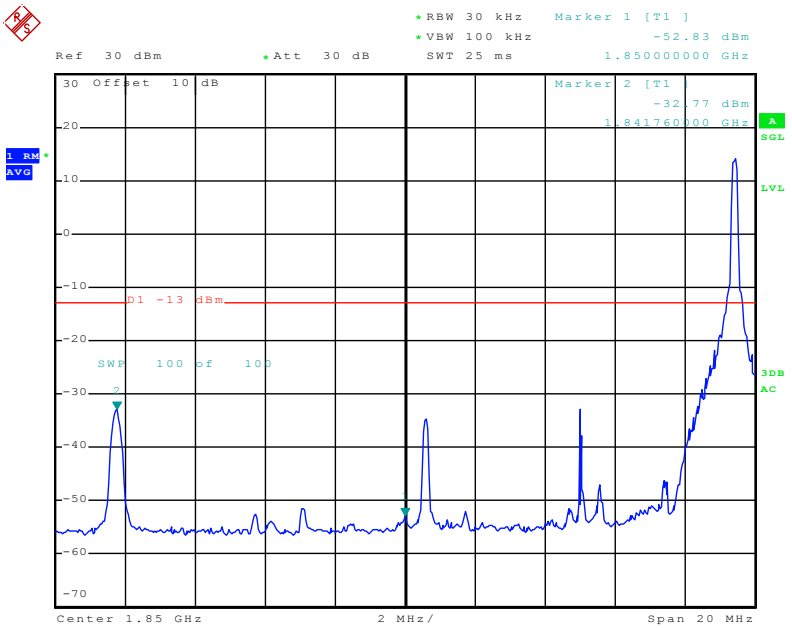


Highest channel



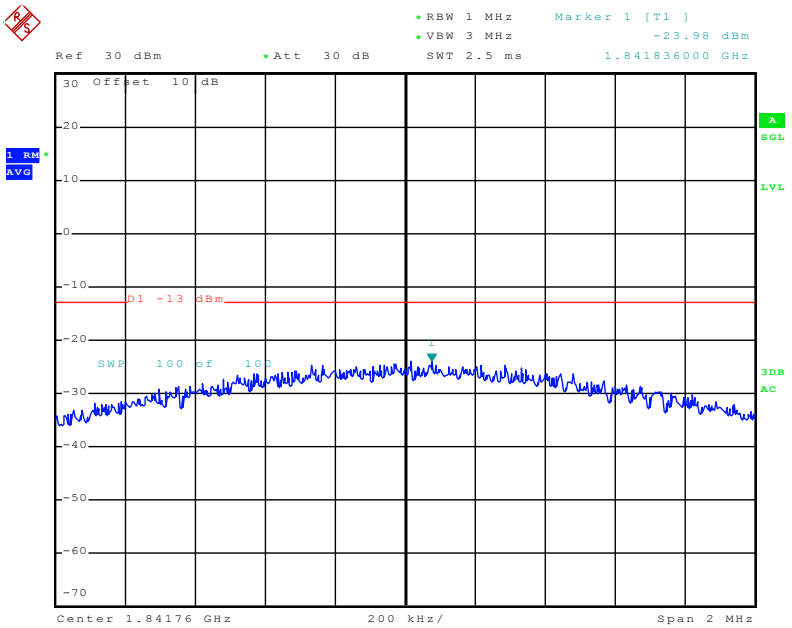
Date: 17.JAN.2015 13:30:33

Test Mode: LTE band 2(16QAM RB Size 1 & RB Offset 49)

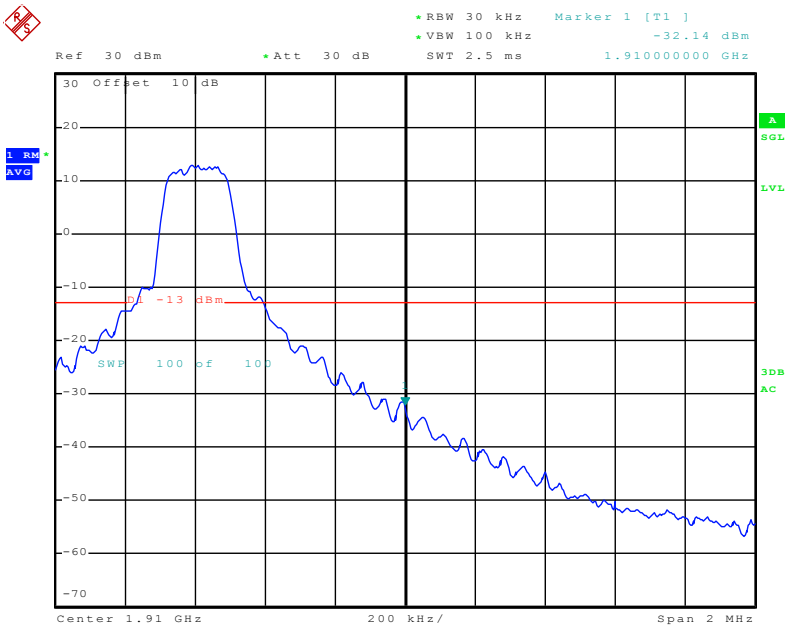


Date: 17.JAN.2015 13:22:30

Lowest channel



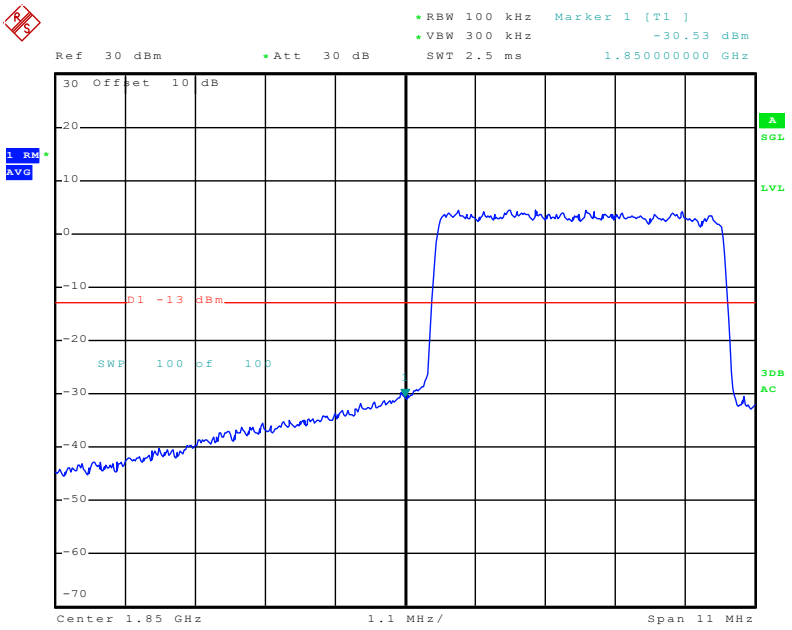
Date: 17.JAN.2015 13:22:57



Date: 17.JAN.2015 13:31:22

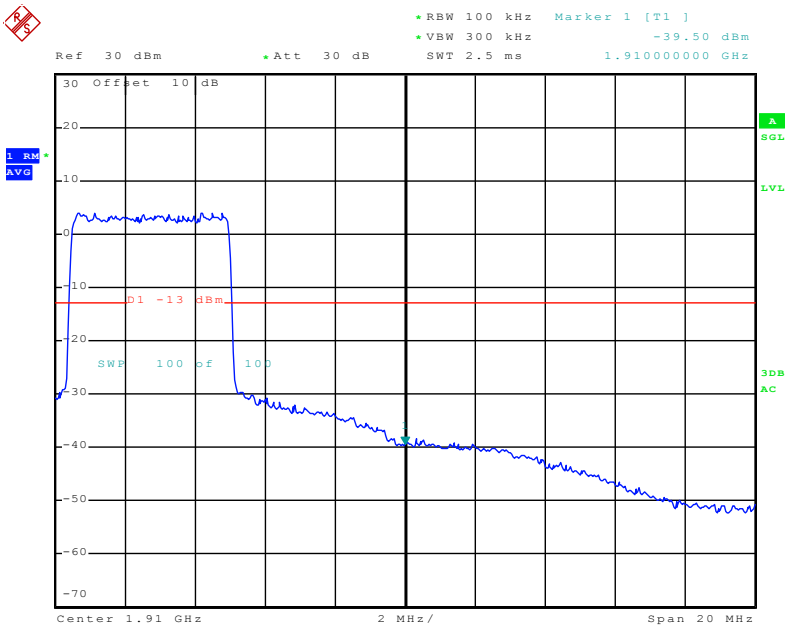
Highest channel

Test Mode: LTE band 2(16QAM RB Size 25 & RB Offset 0)



Date: 17.JAN.2015 13:23:52

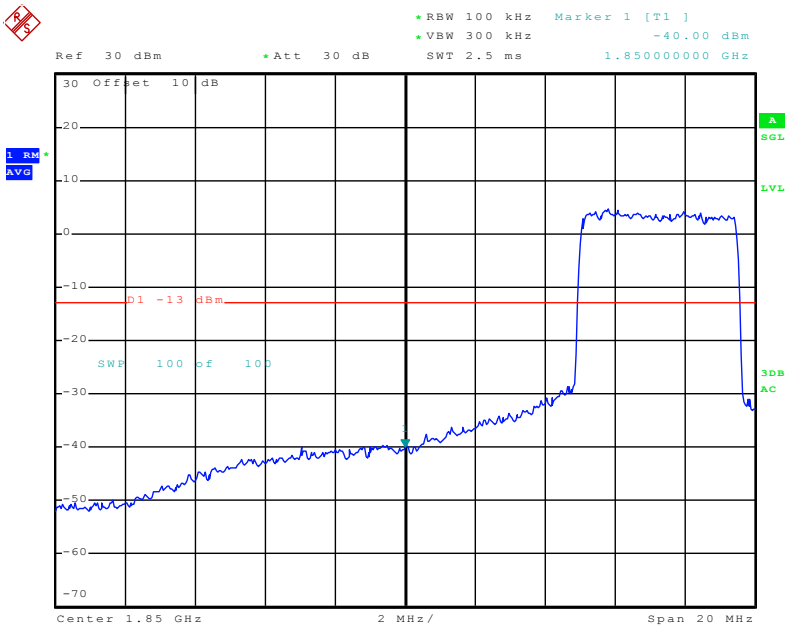
Lowest channel



Date: 17.JAN.2015 13:32:42

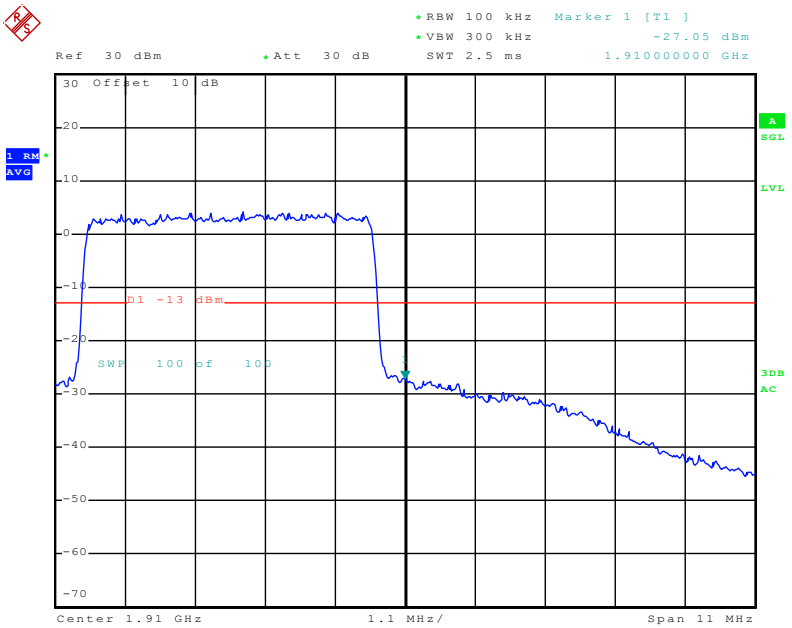
Highest channel

Test Mode: LTE band 2(16QAM RB Size 25 & RB Offset 24)



Date: 17.JAN.2015 13:24:15

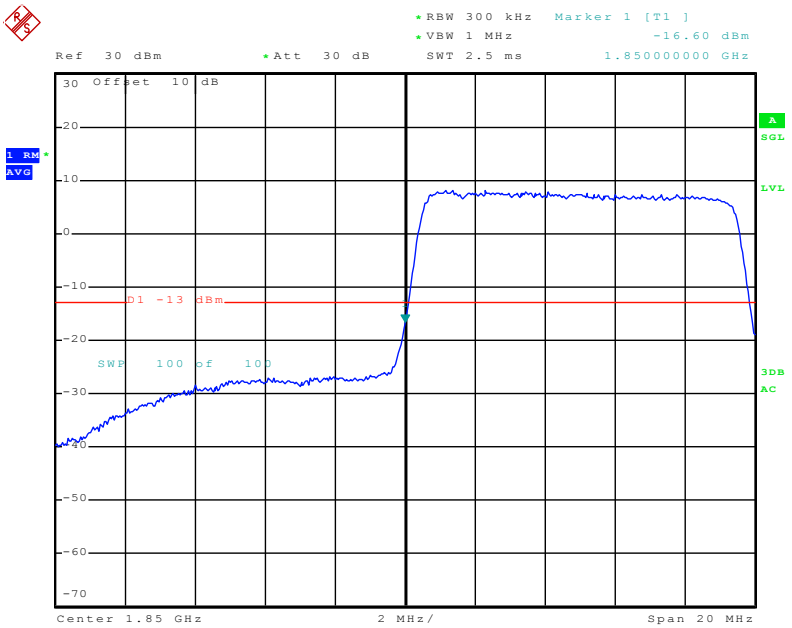
Lowest channel



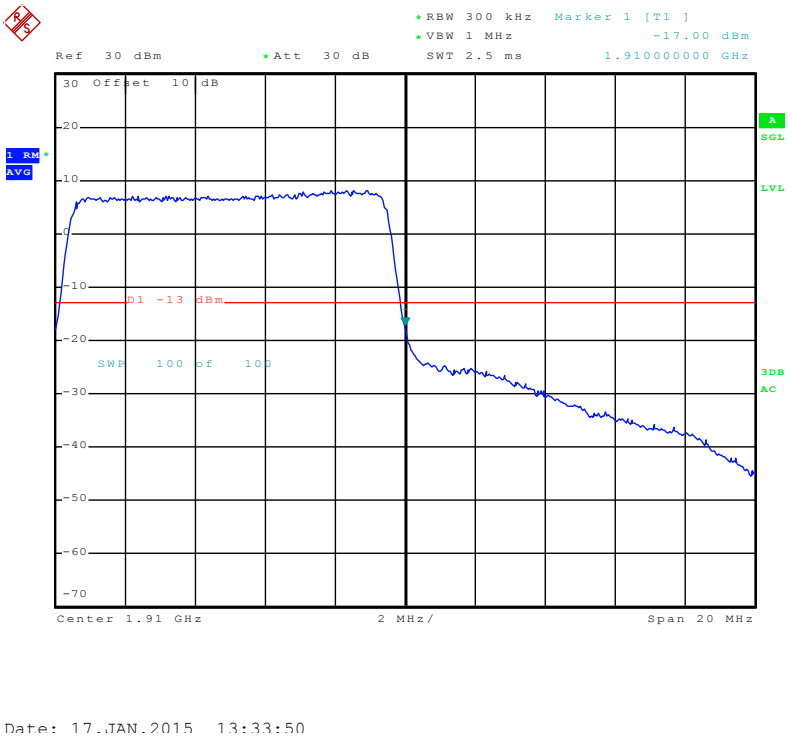
Date: 17.JAN.2015 13:33:16

Highest channel

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

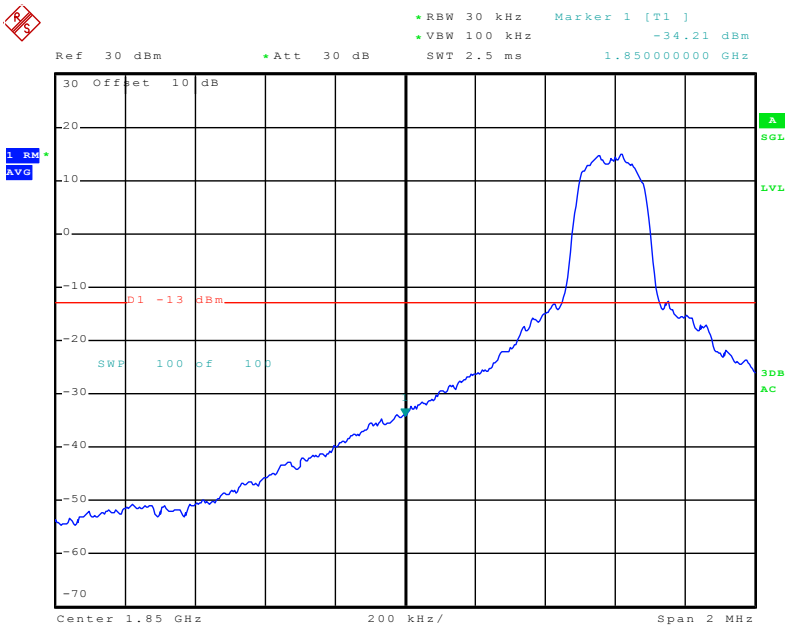


Lowest channel



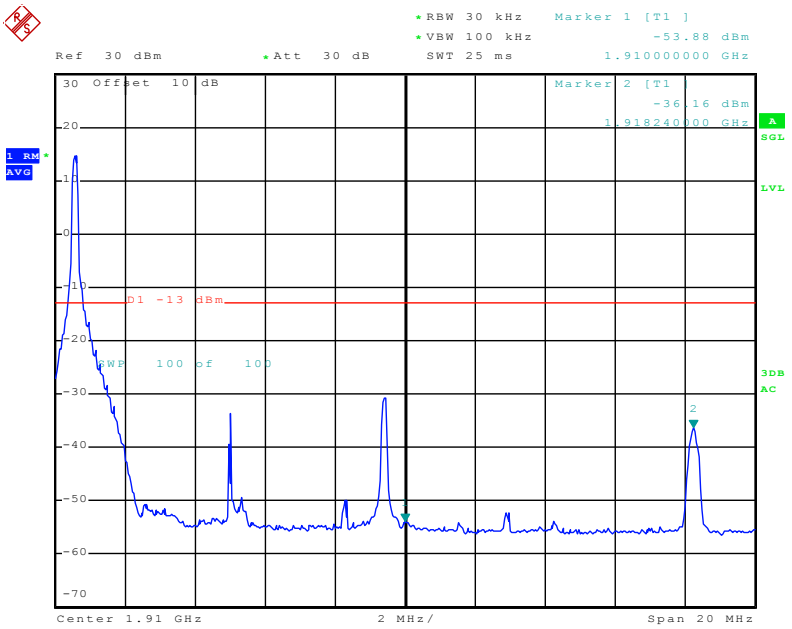
Highest channel

Test Mode: LTE band 2(QPSK RB Size 1 & RB Offset 0)



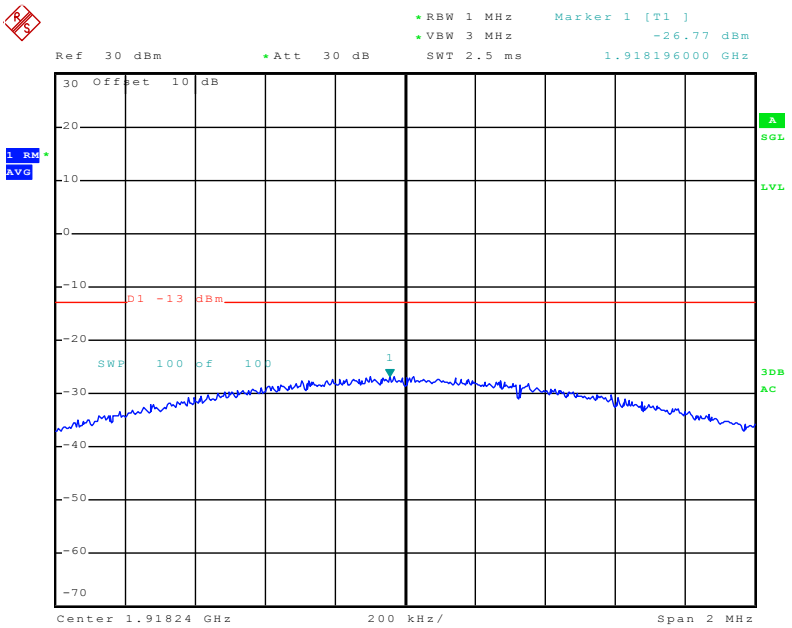
Date: 17.JAN.2015 13:16:03

Lowest channel



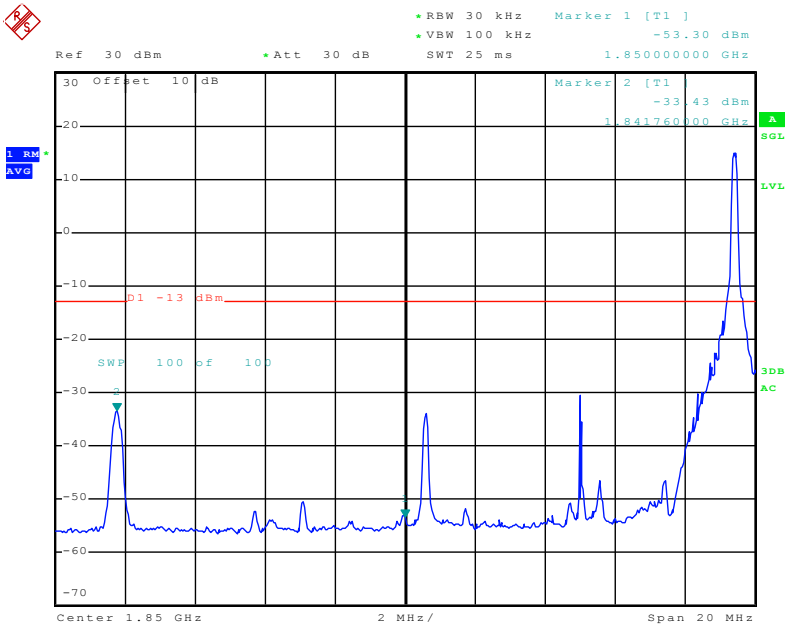
Date: 17.JAN.2015 13:25:46

Highest channel



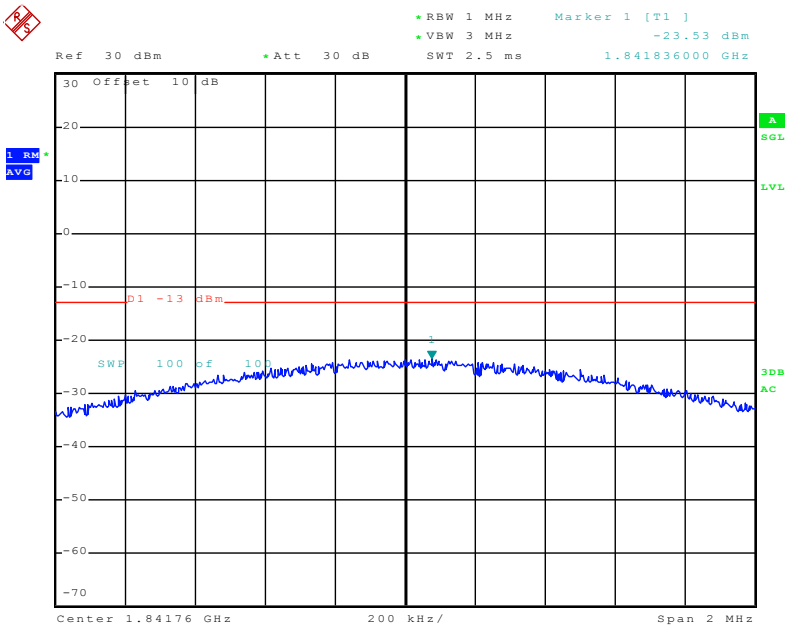
Date: 17.JAN.2015 13:26:12

Test Mode: LTE band 2(QPSK RB Size 1 & RB Offset 49)

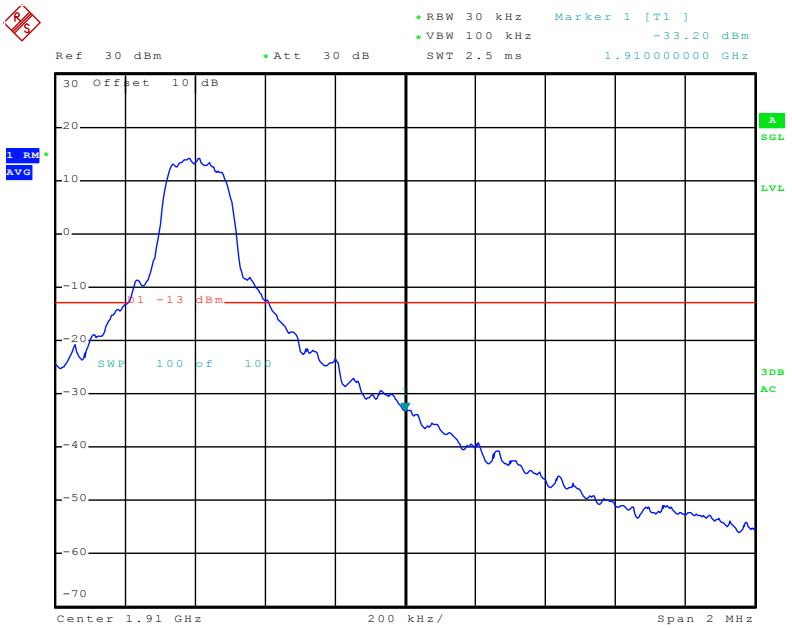


Date: 17.JAN.2015 13:17:14

Lowest channel



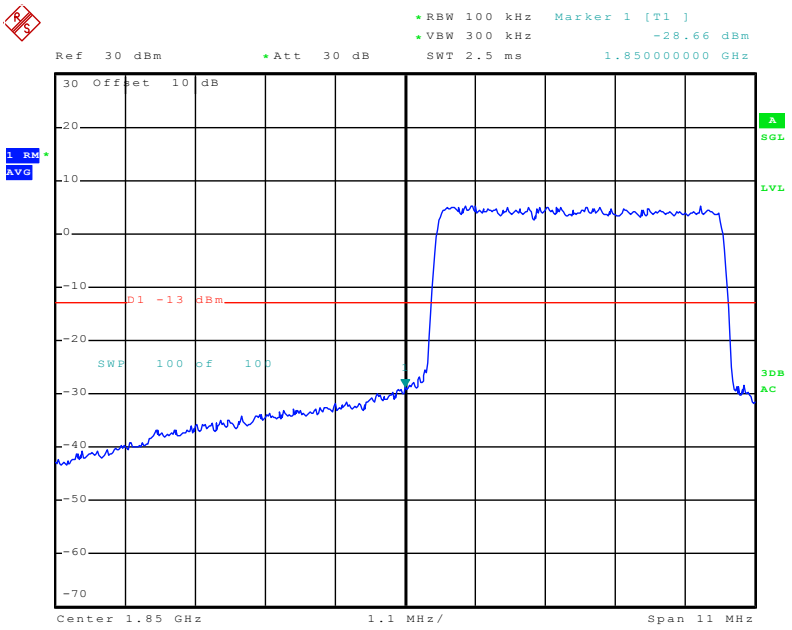
Date: 17.JAN.2015 13:17:43



Date: 17.JAN.2015 13:26:59

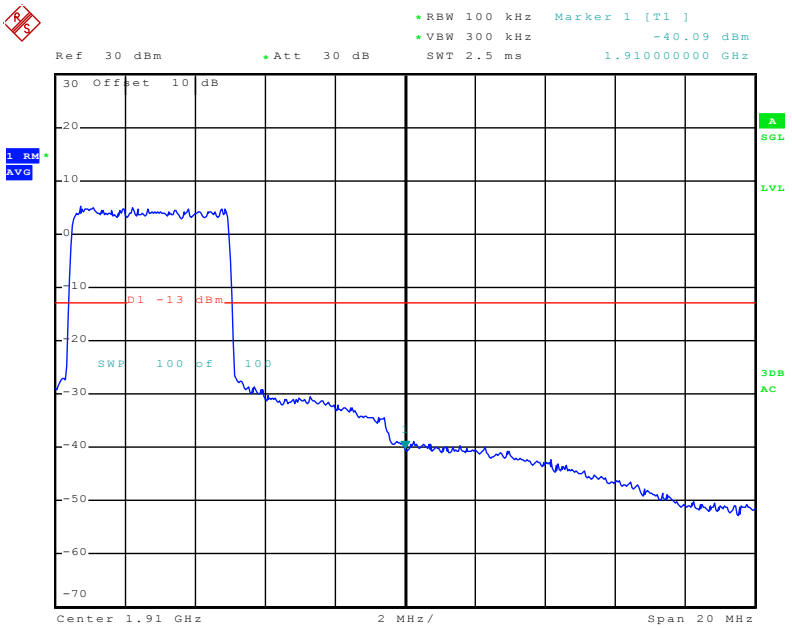
Highest channel

Test Mode: LTE band 2(QPSK RB Size 25 & RB Offset 0)



Date: 17.JAN.2015 13:18:47

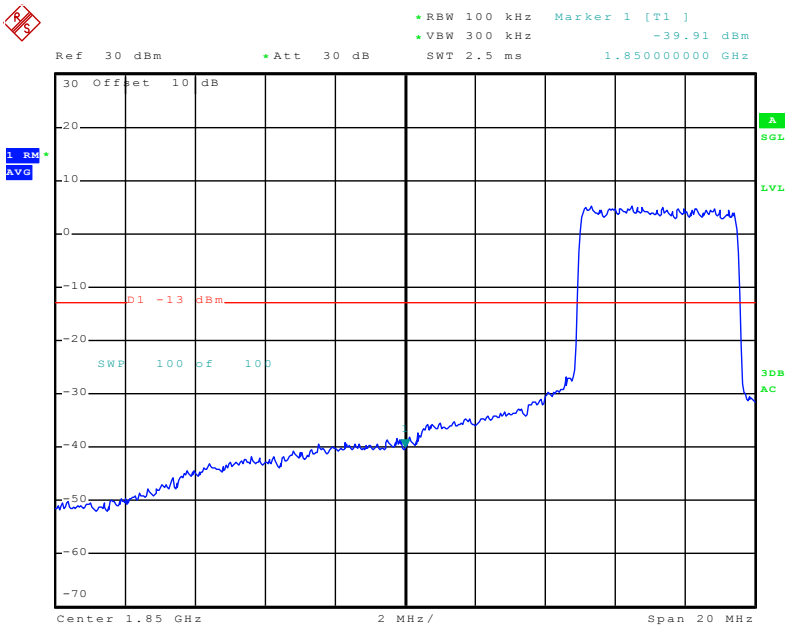
Lowest channel



Date: 17.JAN.2015 13:27:40

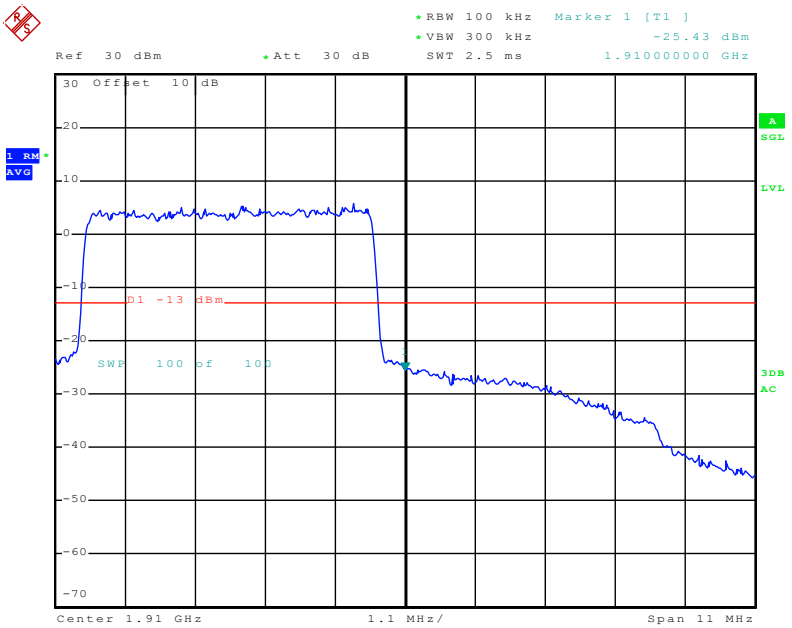
Highest channel

Test Mode: LTE band 2(QPSK RB Size 25 & RB Offset 24)



Date: 17.JAN.2015 13:19:12

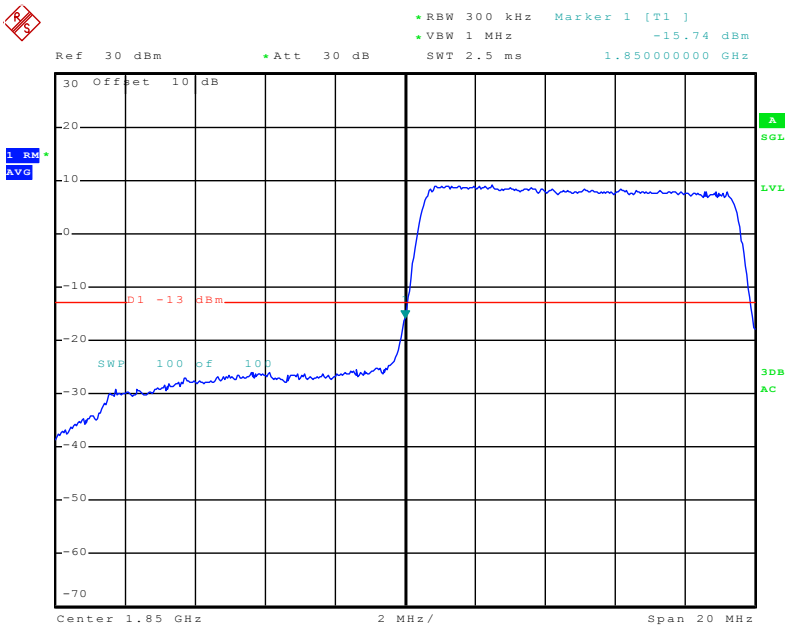
Lowest channel



Date: 17.JAN.2015 13:28:24

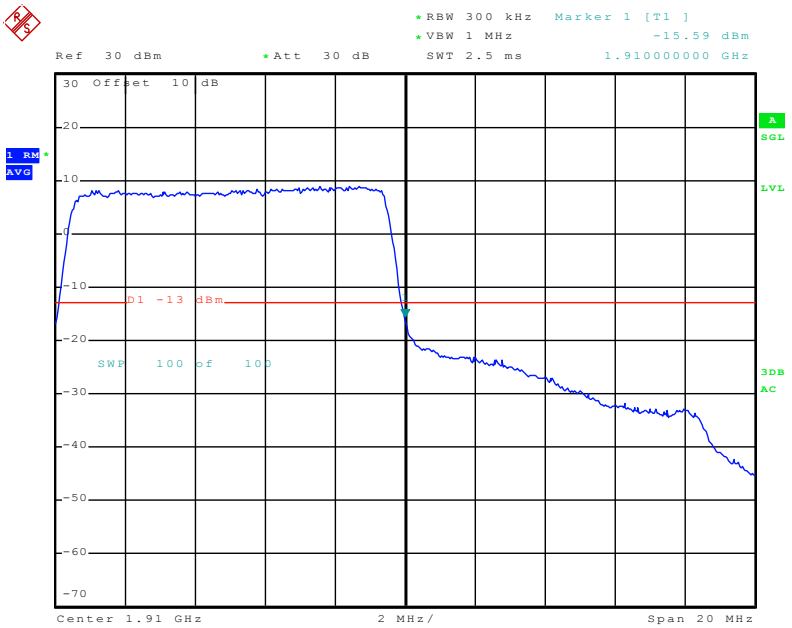
Highest channel

Test Mode: LTE band 2(QPSK RB Size 50 & RB Offset 0)



Date: 17.JAN.2015 13:20:11

Lowest channel

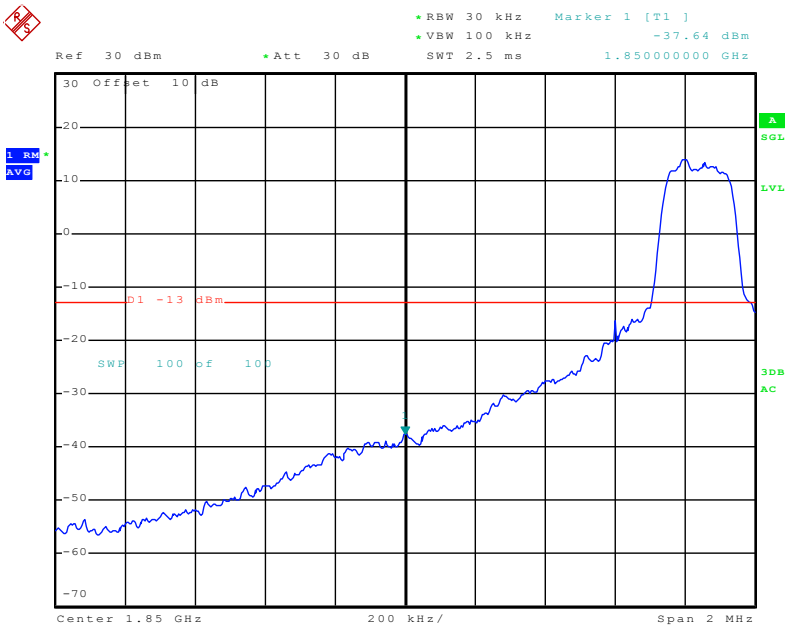


Date: 17.JAN.2015 13:29:05

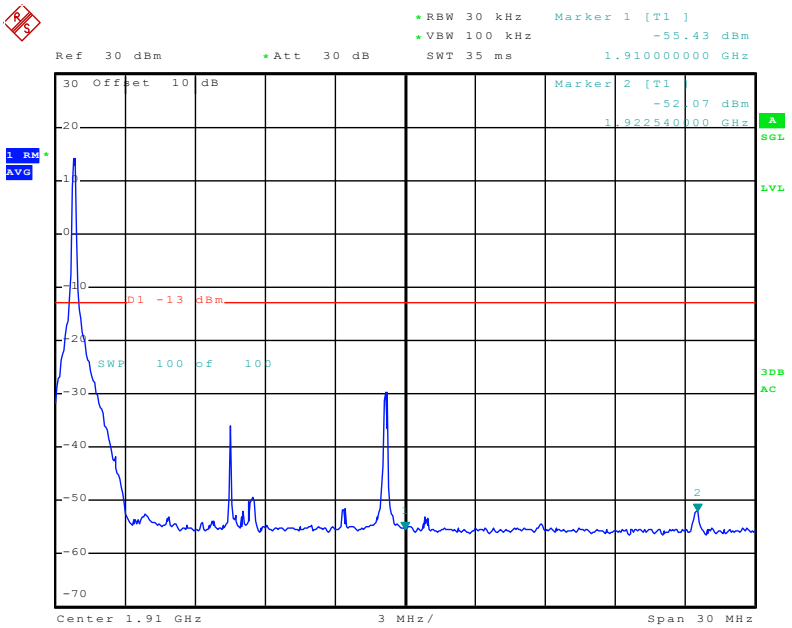
Highest channel

15MHz

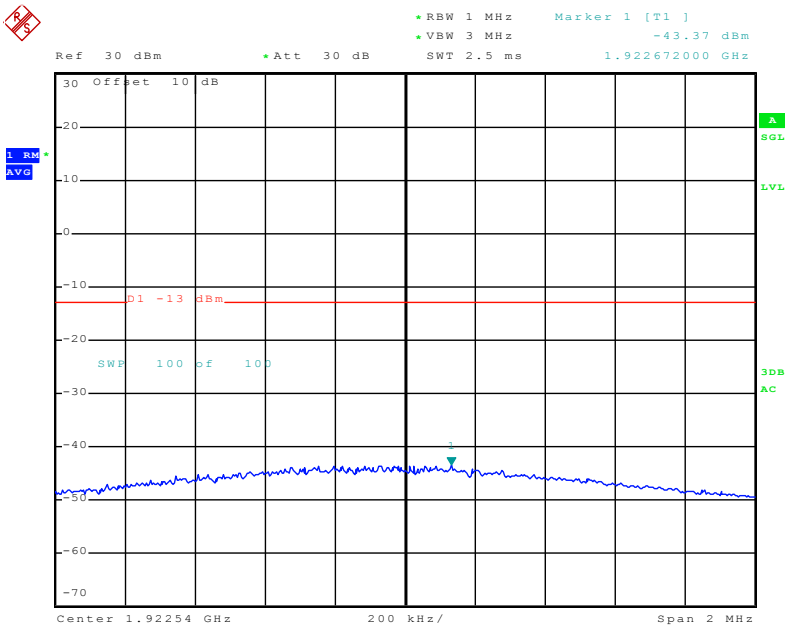
Test Mode: LTE band 2(16QAM RB Size 1 & RB Offset 0)



Lowest channel

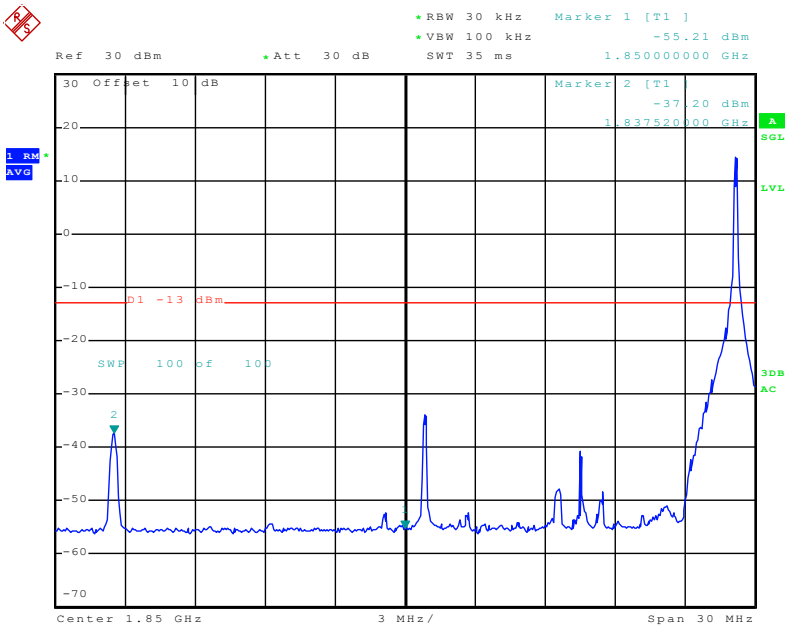


Highest channel



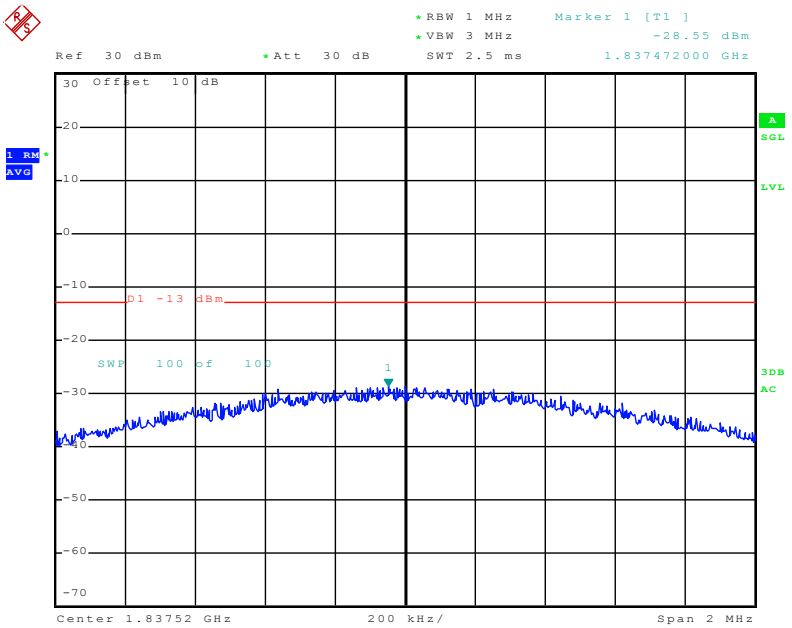
Date: 17.JAN.2015 13:49:01

Test Mode: LTE band 2(16QAM RB Size 1 & RB Offset 74)

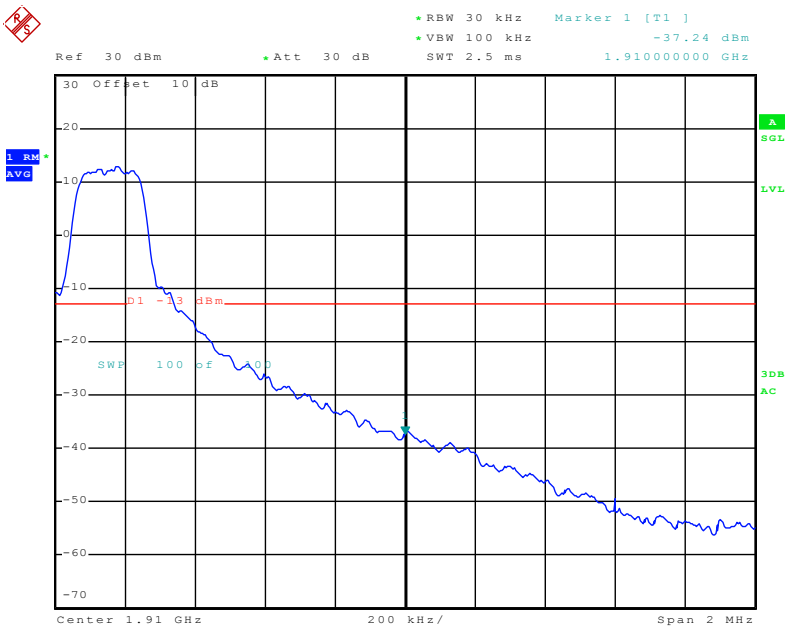


Date: 17.JAN.2015 13:40:06

Lowest channel



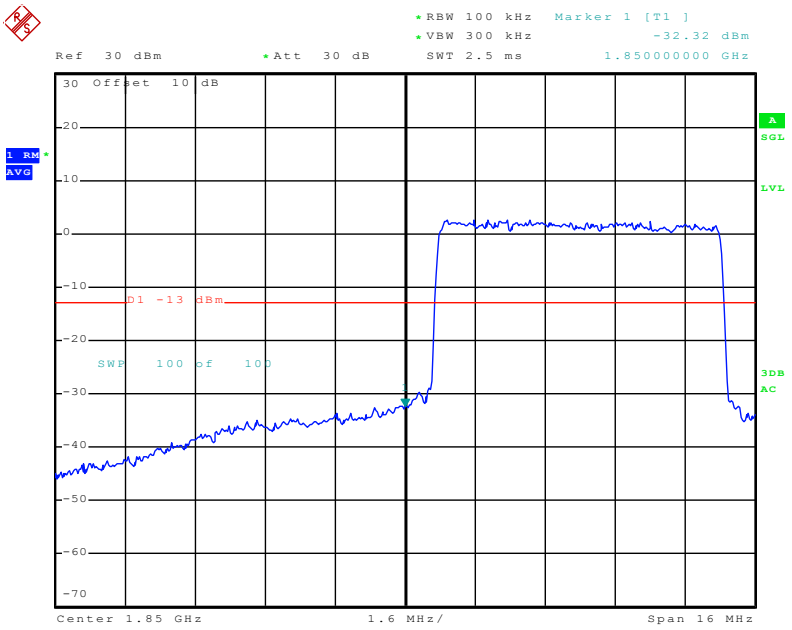
Date: 17.JAN.2015 13:40:30



Date: 17.JAN.2015 13:50:17

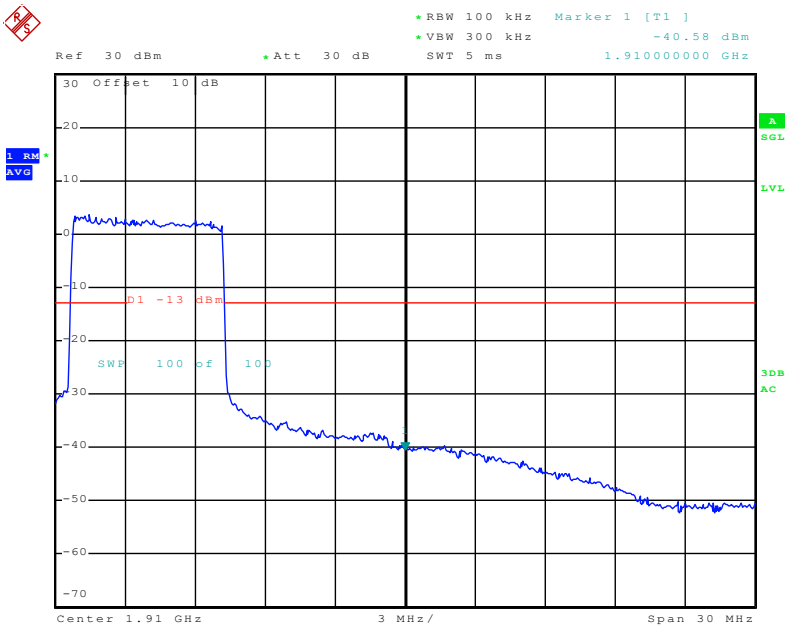
Highest channel

Test Mode: LTE band 2(16QAM RB Size 36 & RB Offset 0)



Date: 17.JAN.2015 13:41:31

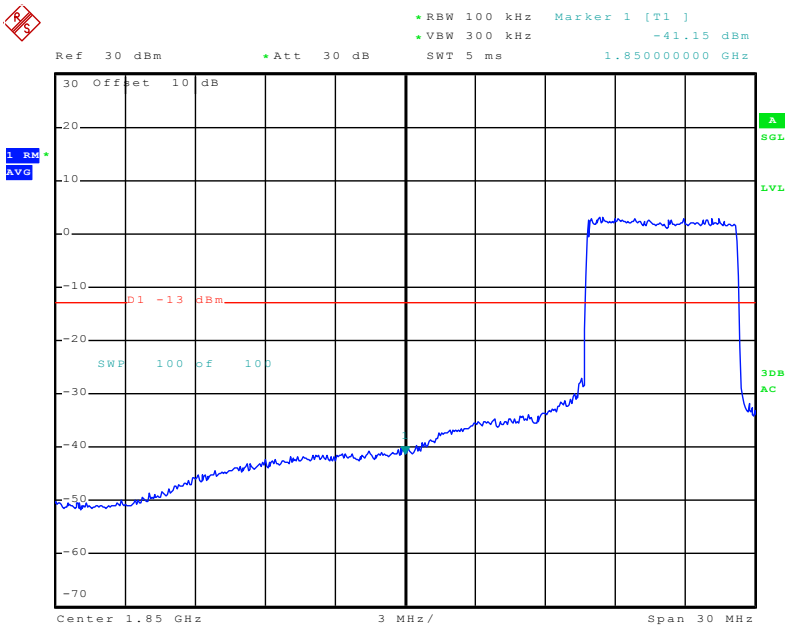
Lowest channel



Date: 17.JAN.2015 13:53:21

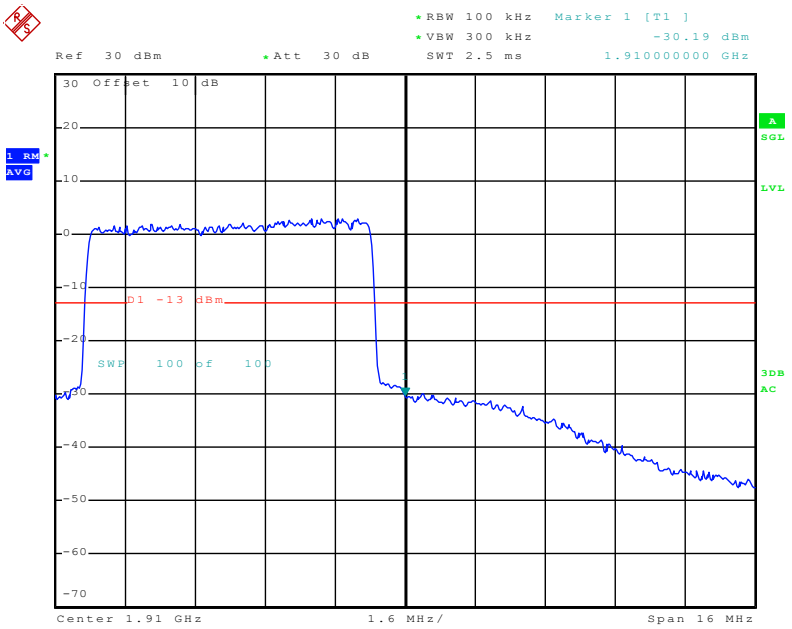
Highest channel

Test Mode: LTE band 2(16QAM RB Size 36 & RB Offset 35)



Date: 17.JAN.2015 13:41:56

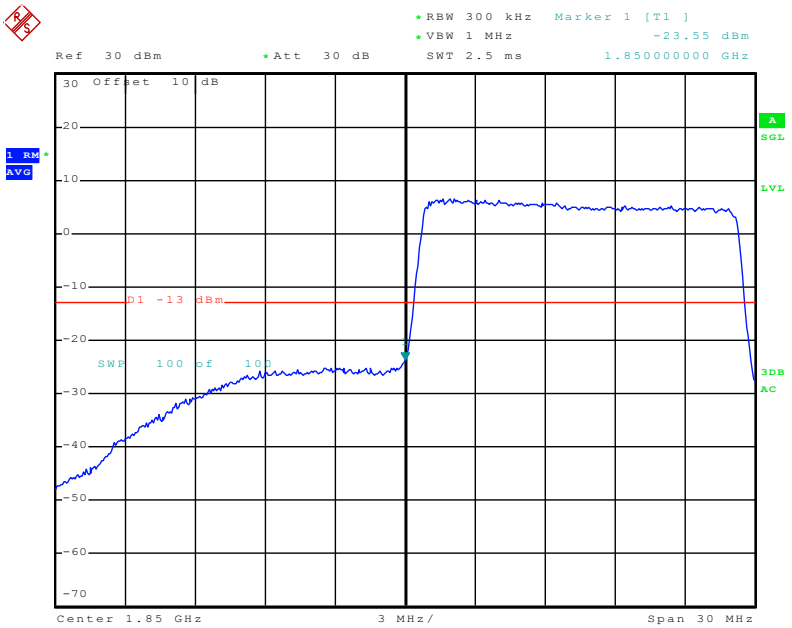
Lowest channel



Date: 17.JAN.2015 13:54:04

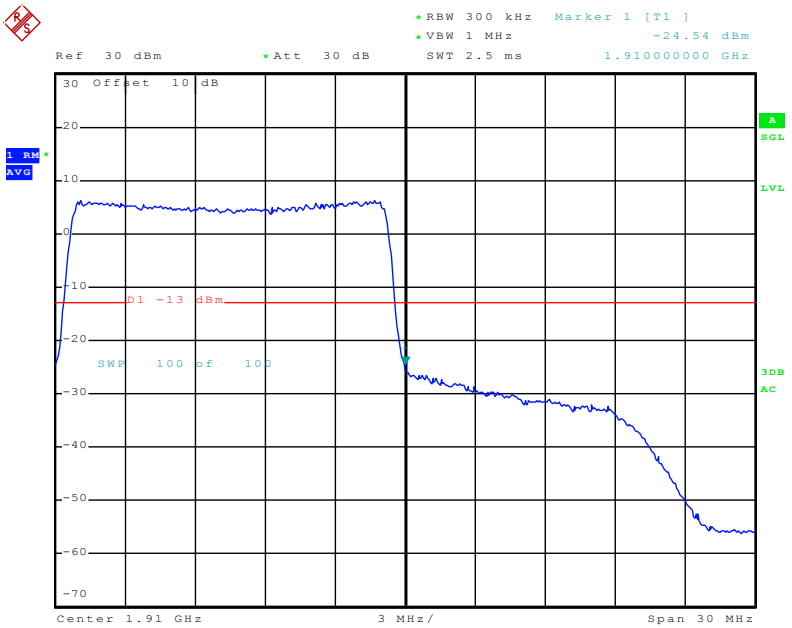
Highest channel

Test Mode: LTE band 2(16QAM RB Size 75 & RB Offset 0)



Date: 17.JAN.2015 13:42:27

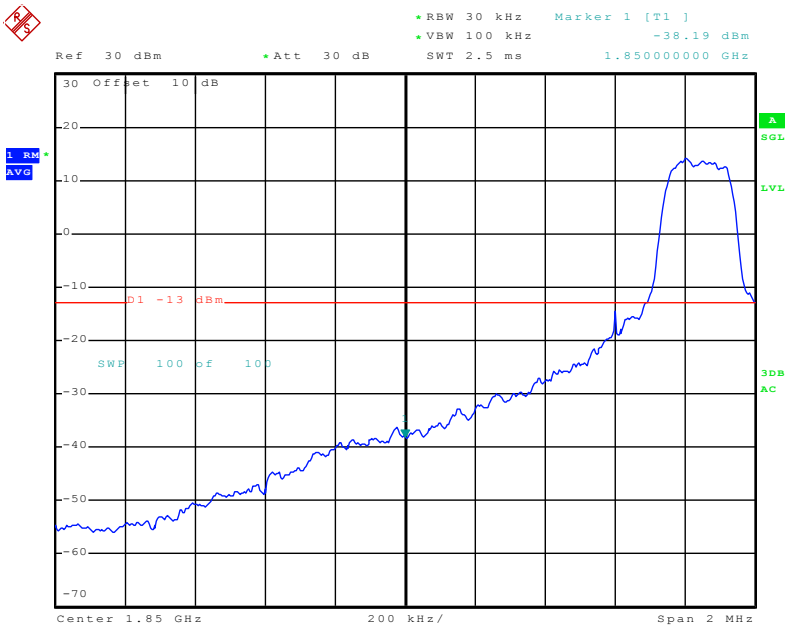
Lowest channel



Date: 17.JAN.2015 13:55:05

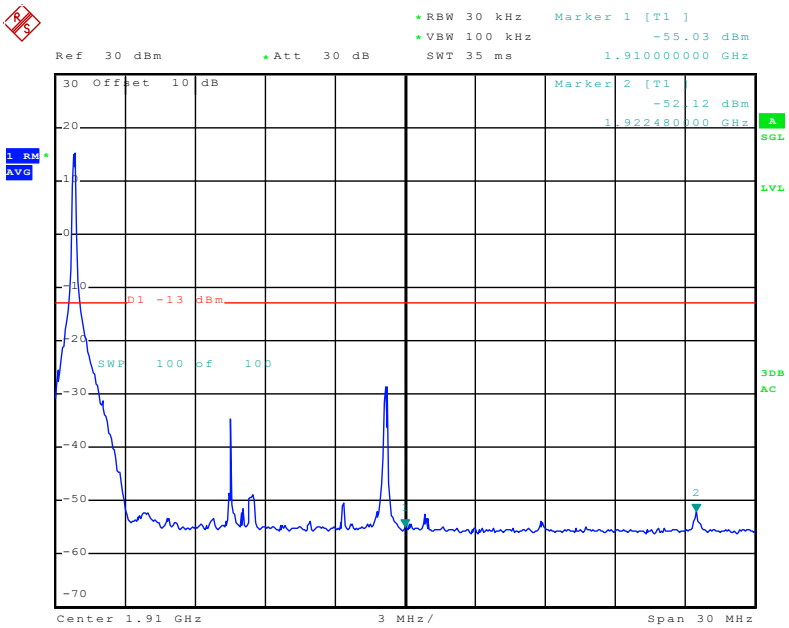
Highest channel

Test Mode: LTE band 2(QPSK RB Size 1 & RB Offset 0)



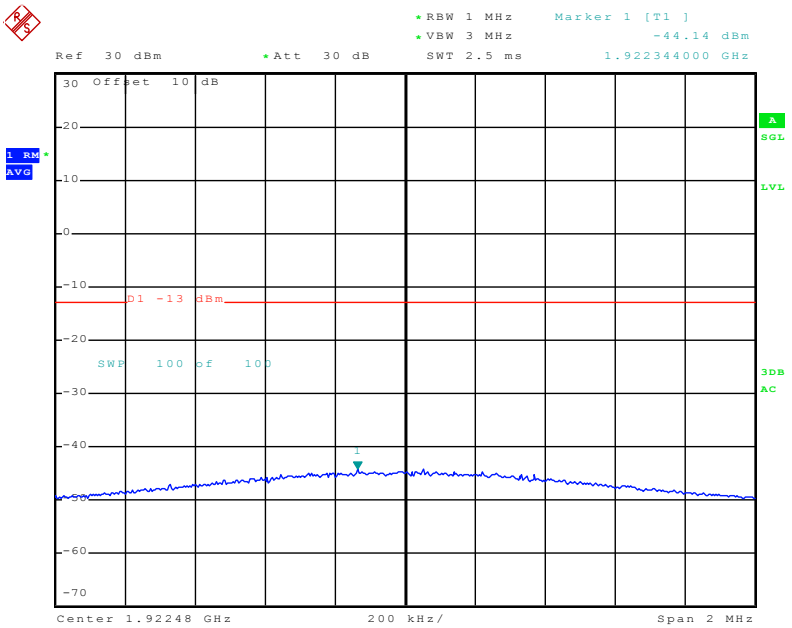
Date: 17.JAN.2015 13:35:12

Lowest channel



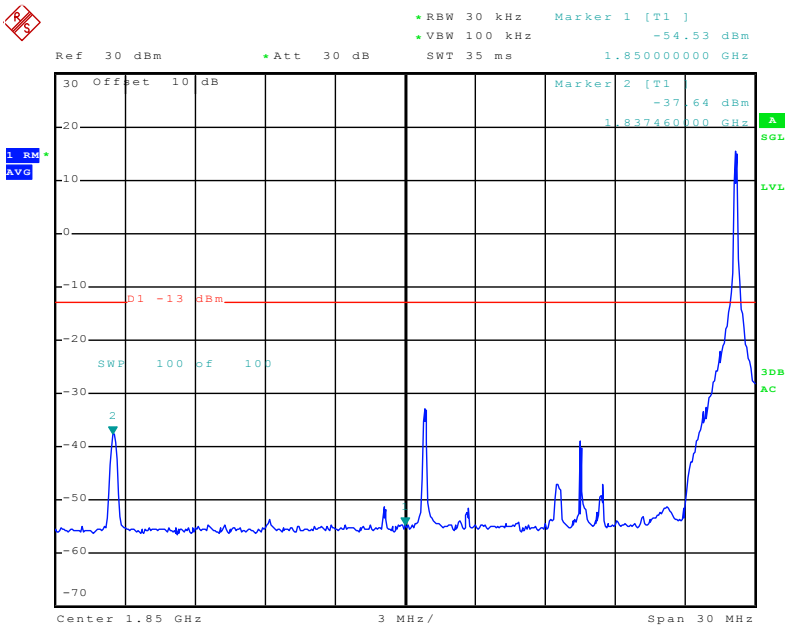
Date: 17.JAN.2015 13:43:59

Highest channel



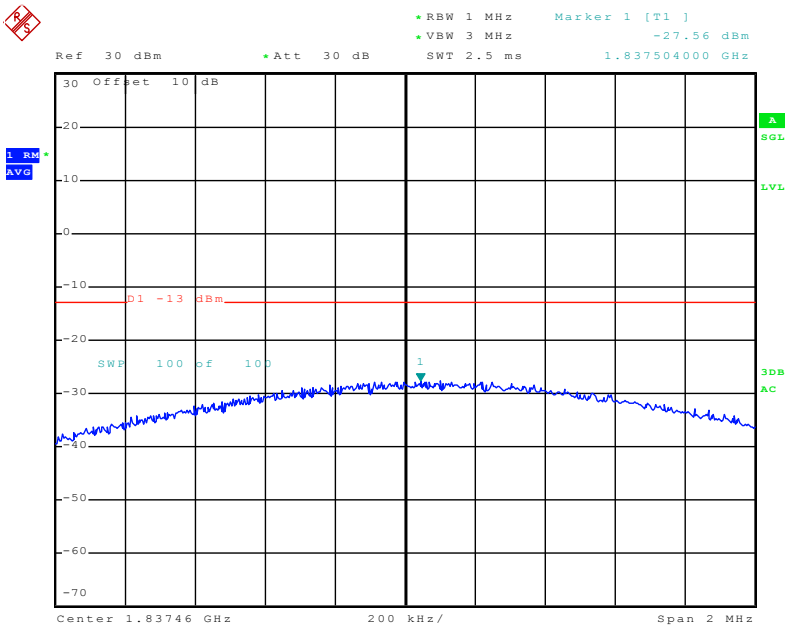
Date: 17.JAN.2015 13:44:27

Test Mode: LTE band 2(QPSK RB Size 1 & RB Offset 74)

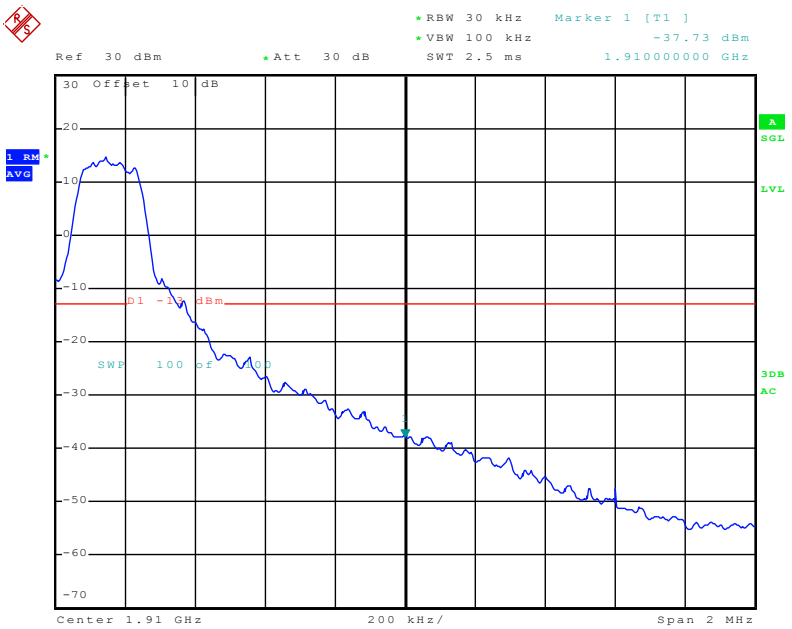


Date: 17.JAN.2015 13:36:06

Lowest channel



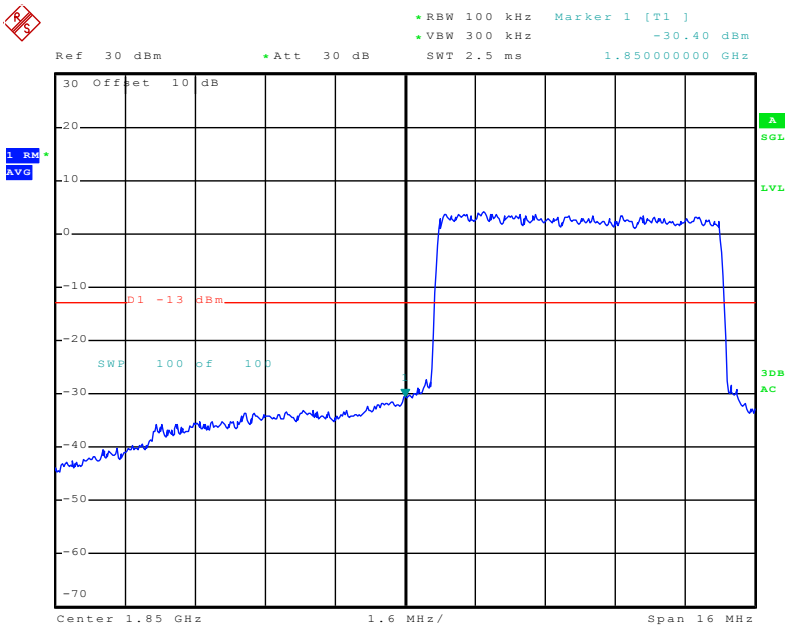
Date: 17.JAN.2015 13:36:28



Date: 17.JAN.2015 13:45:41

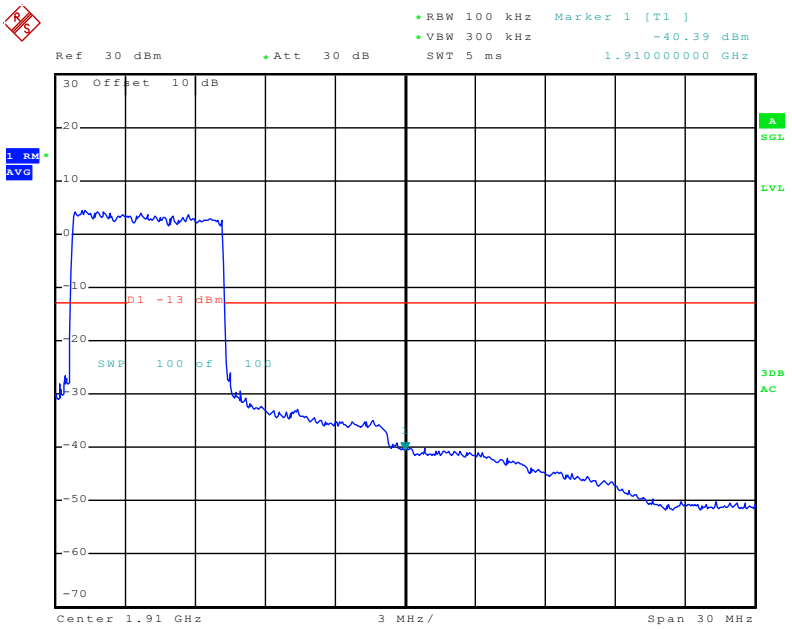
Highest channel

Test Mode: LTE band 2(QPSK RB Size 36 & RB Offset 0)



Date: 17.JAN.2015 13:37:25

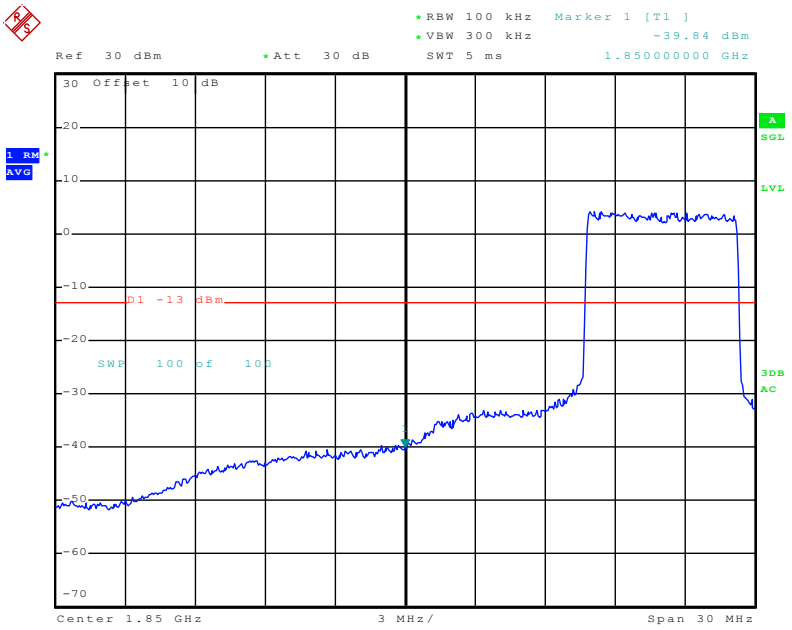
Lowest channel



Date: 17.JAN.2015 13:46:16

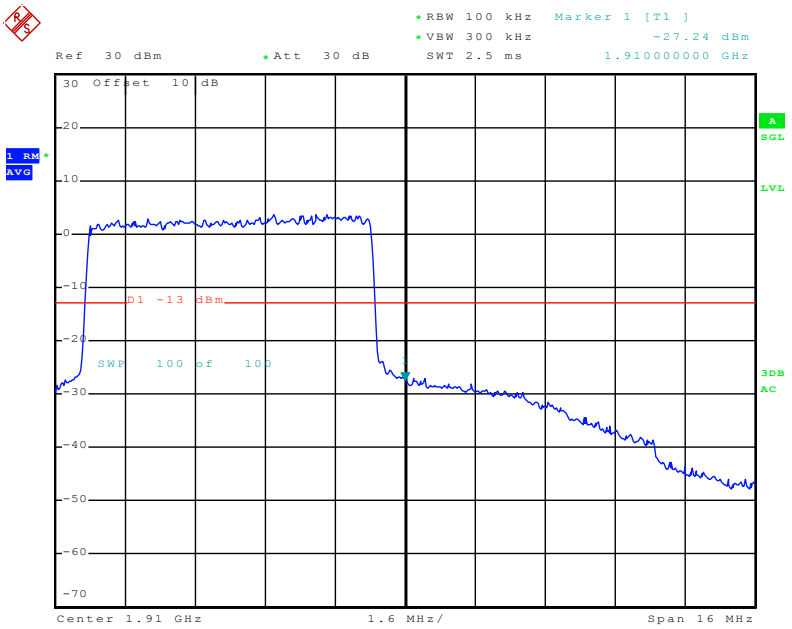
Highest channel

Test Mode: LTE band 2(QPSK RB Size 36 & RB Offset 35)



Date: 17.JAN.2015 13:37:58

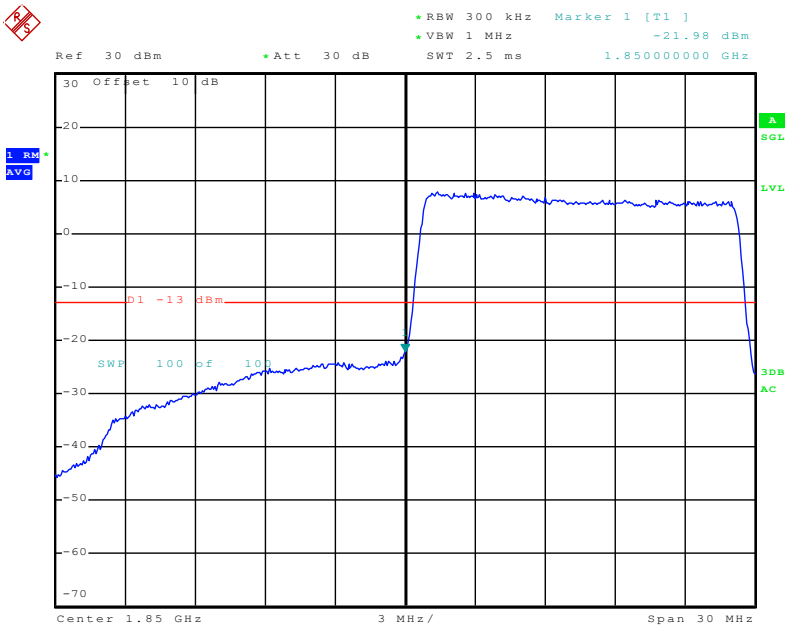
Lowest channel



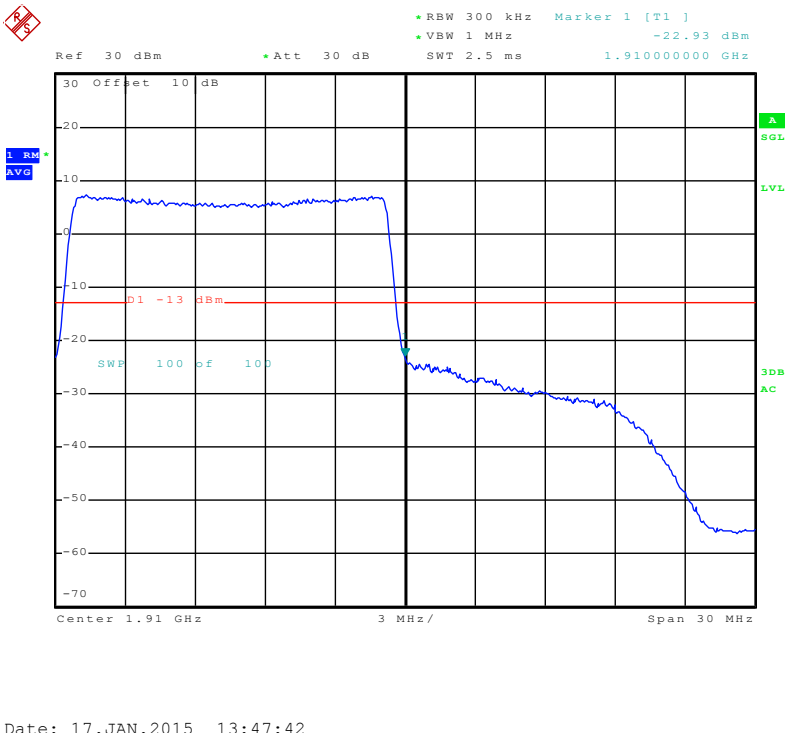
Date: 17.JAN.2015 13:47:07

Highest channel

Test Mode: LTE band 2(QPSK RB Size 75 & RB Offset 0)



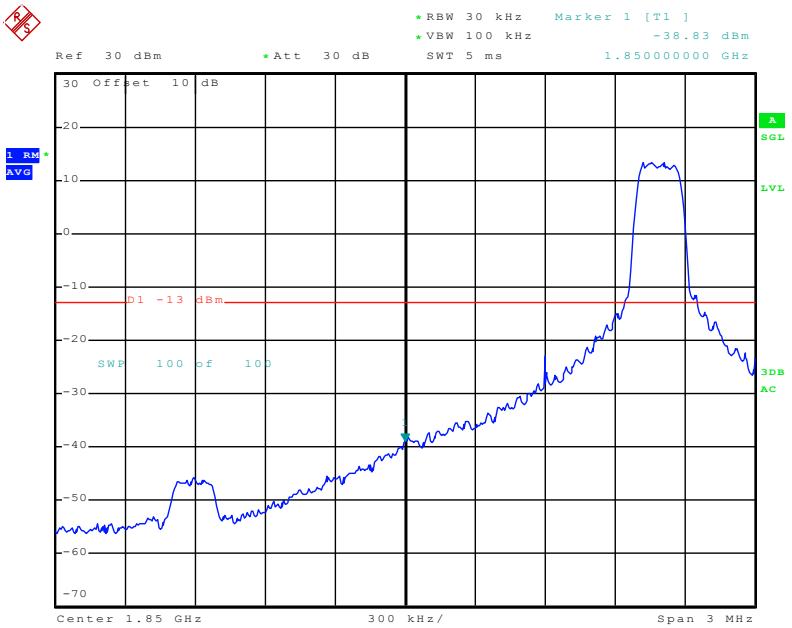
Lowest channel



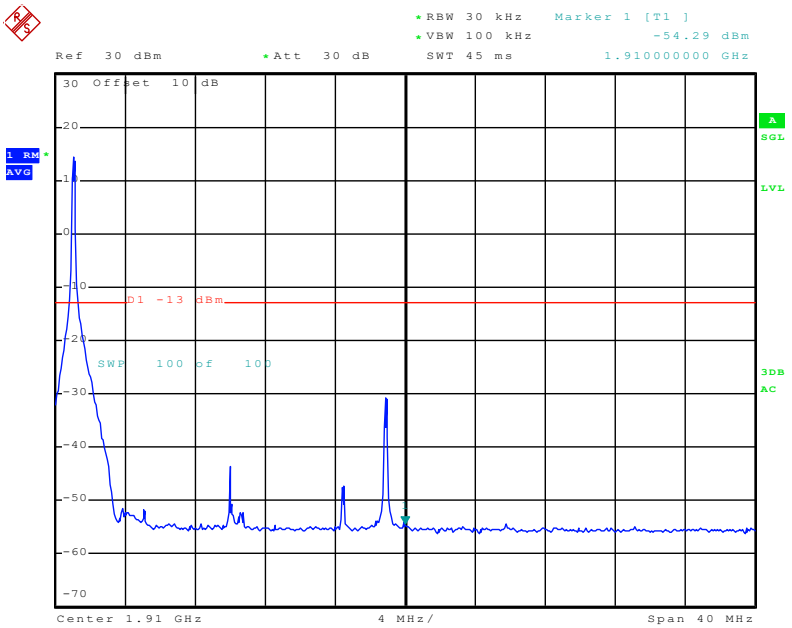
Highest channel

20MHz

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

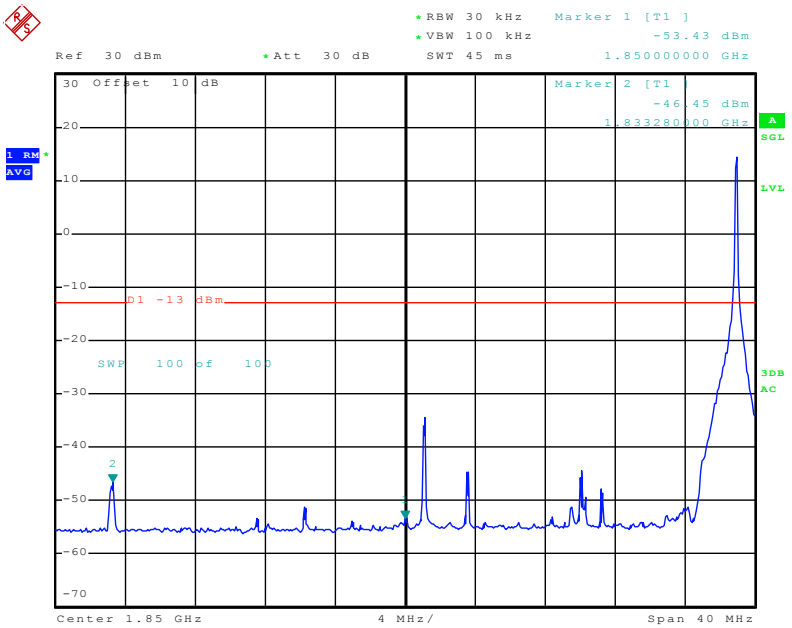


Lowest channel



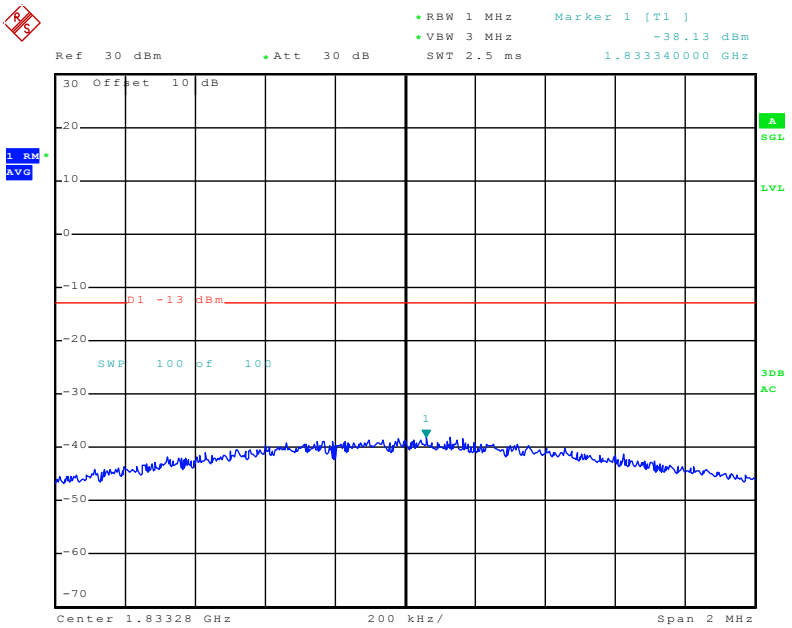
Highest channel

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

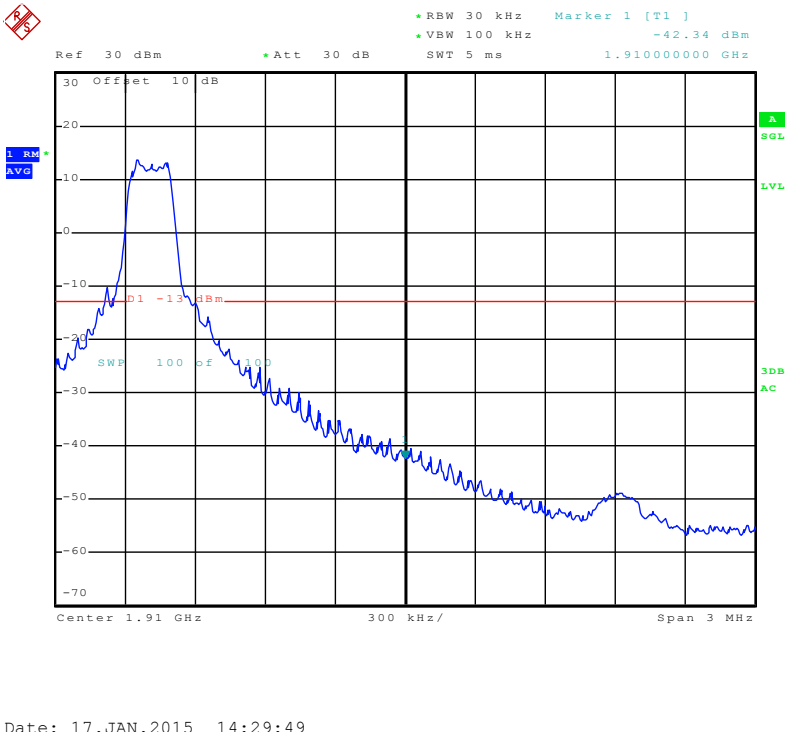


Date: 17.JAN.2015 14:18:51

Lowest channel

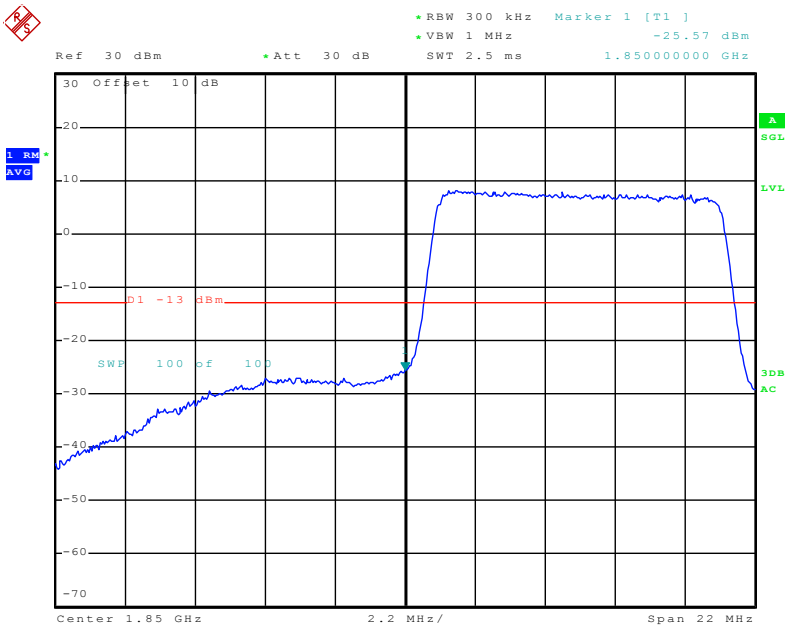


Date: 17.JAN.2015 14:19:16

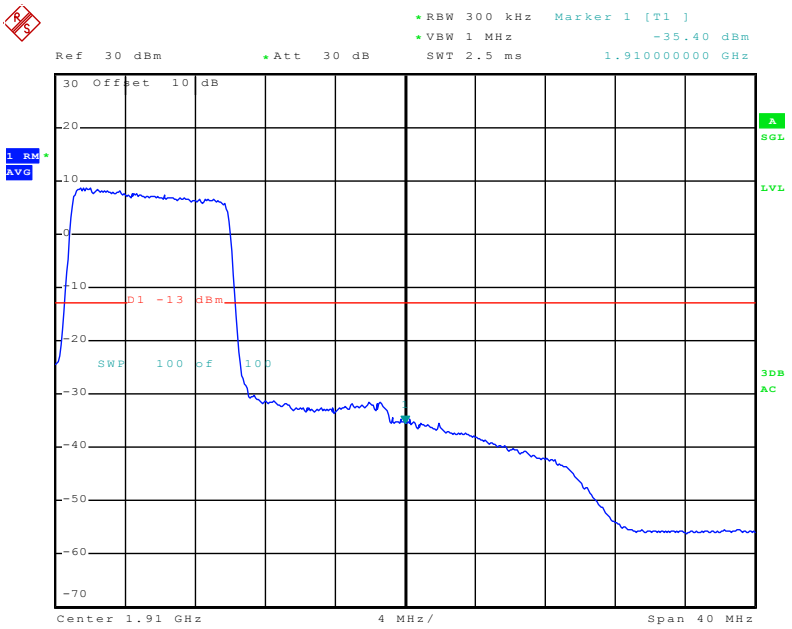


Highest channel

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

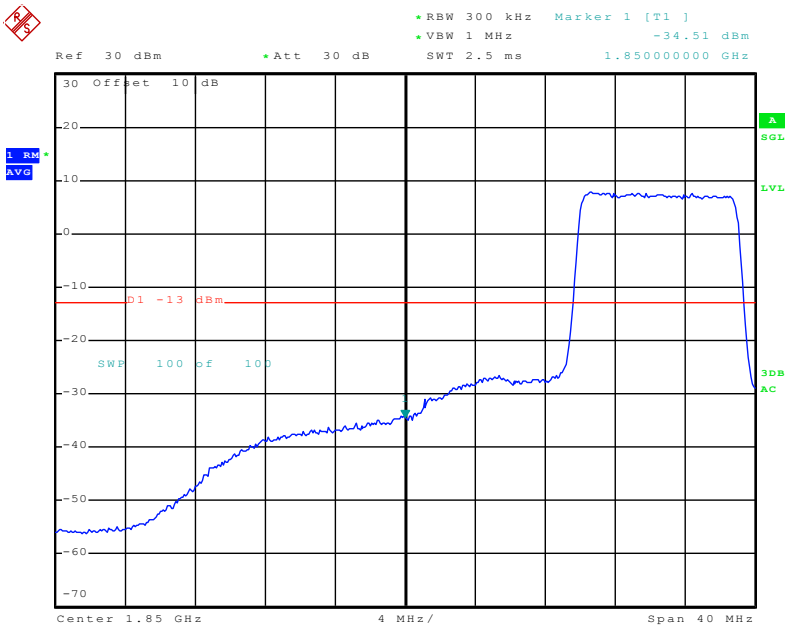


Lowest channel



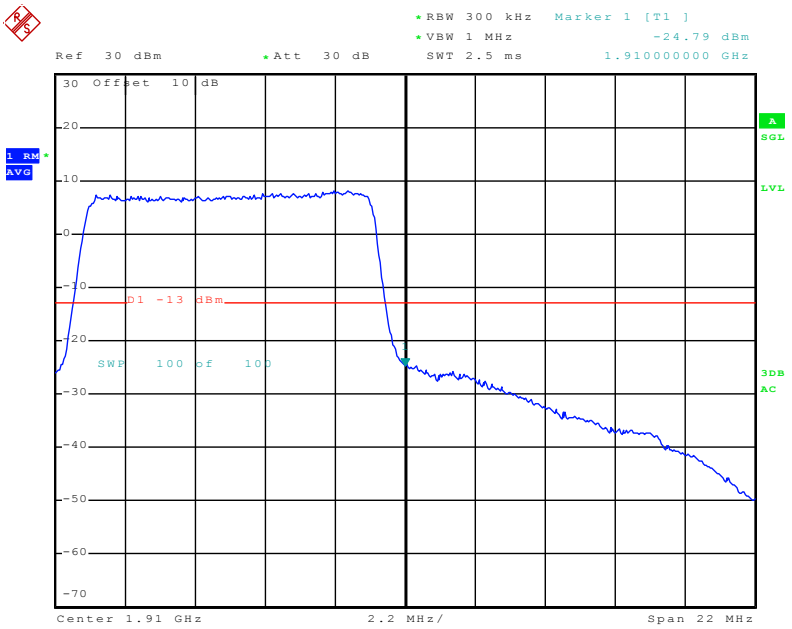
Highest channel

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



Date: 17.JAN.2015 14:21:28

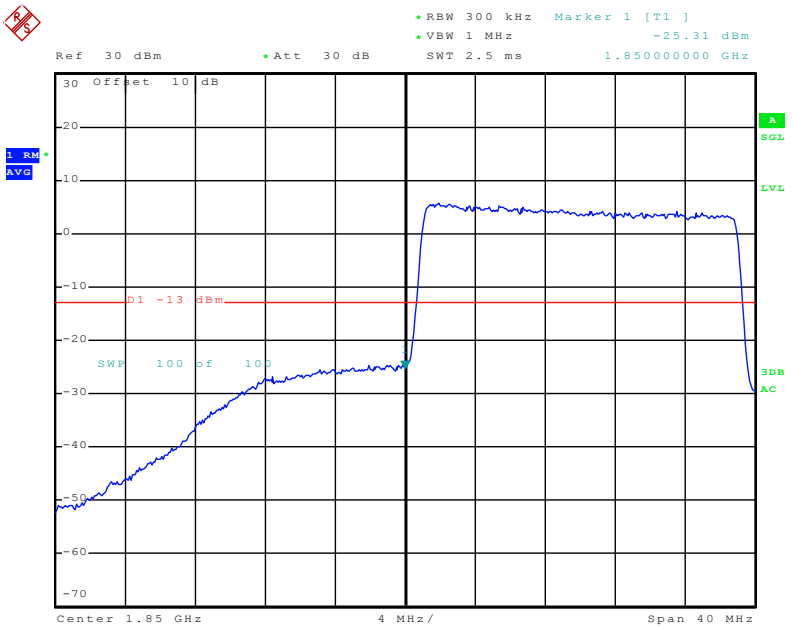
Lowest channel



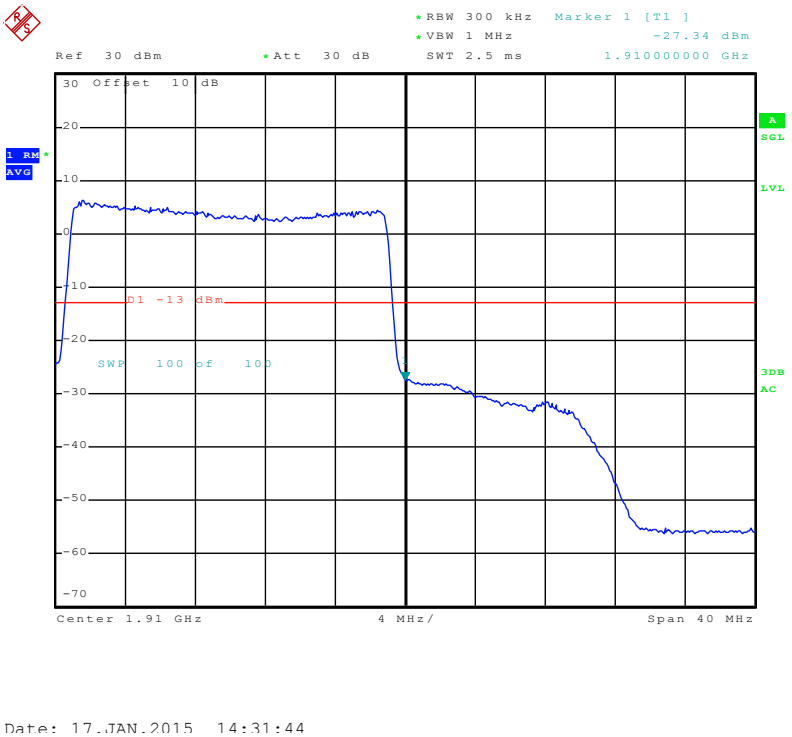
Date: 17.JAN.2015 14:32:33

Highest channel

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

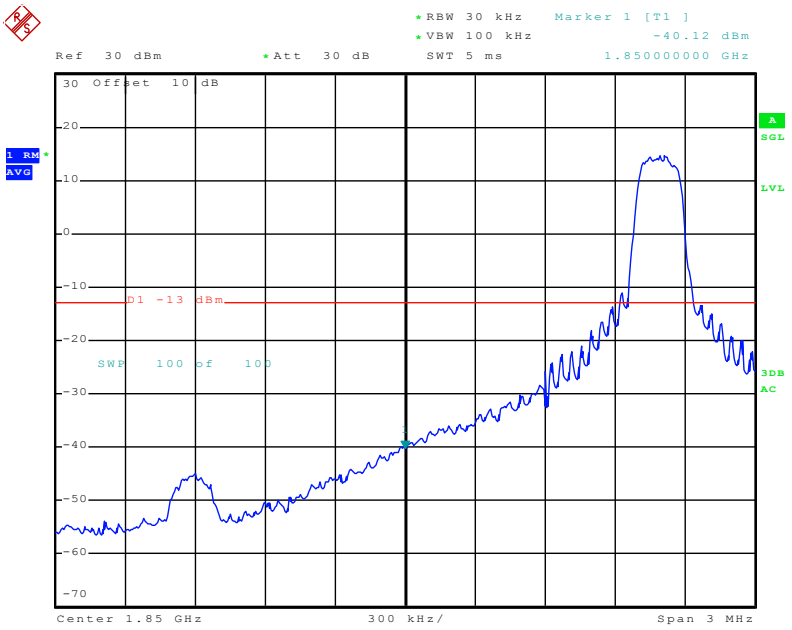


Lowest channel



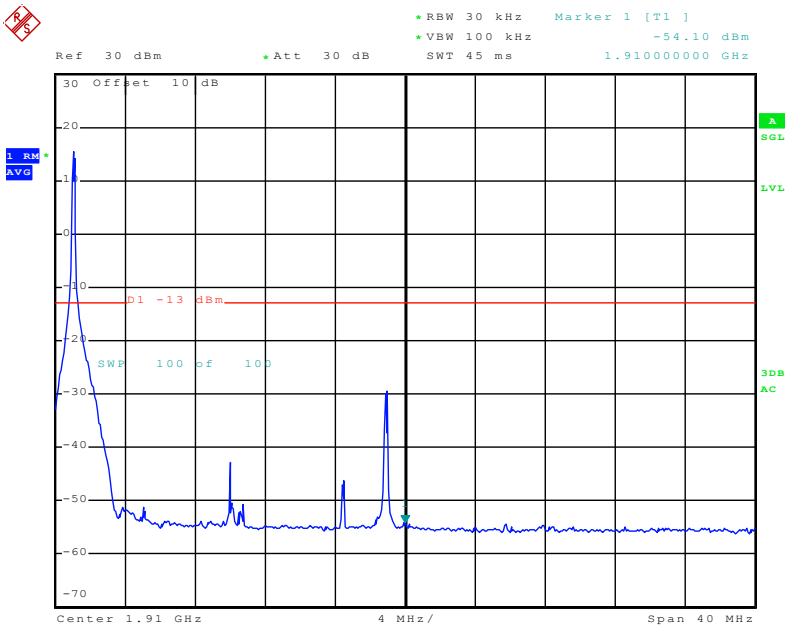
Highest channel

Test Mode: LTE band 2(QPSK RB Size 1 & RB Offset 0)



Date: 17.JAN.2015 14:08:36

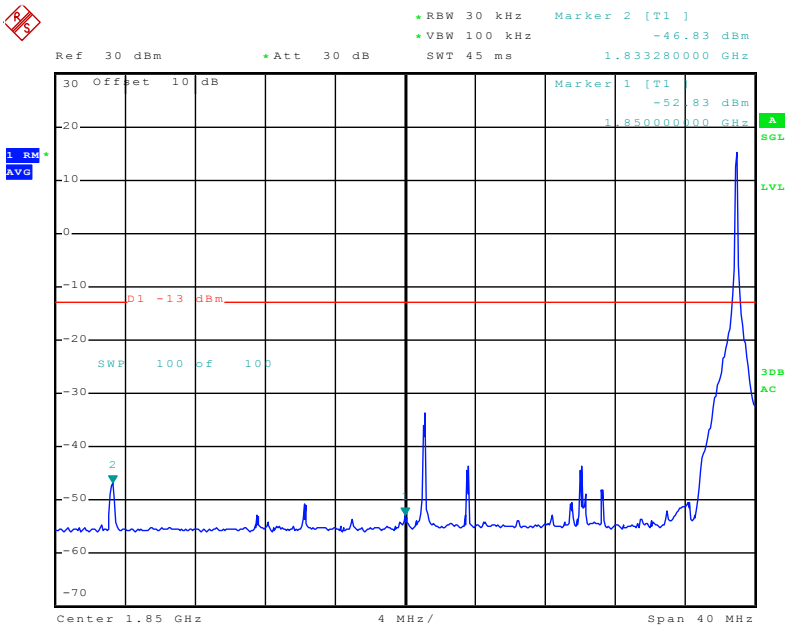
Lowest channel



Date: 17.JAN.2015 14:24:32

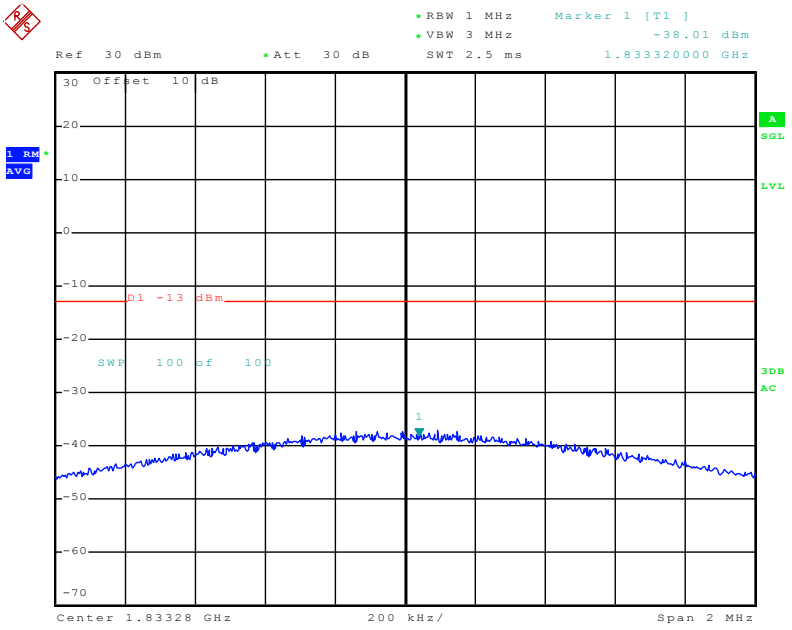
Highest channel

Test Mode: LTE band 2(QPSK RB Size 1 & RB Offset 99)

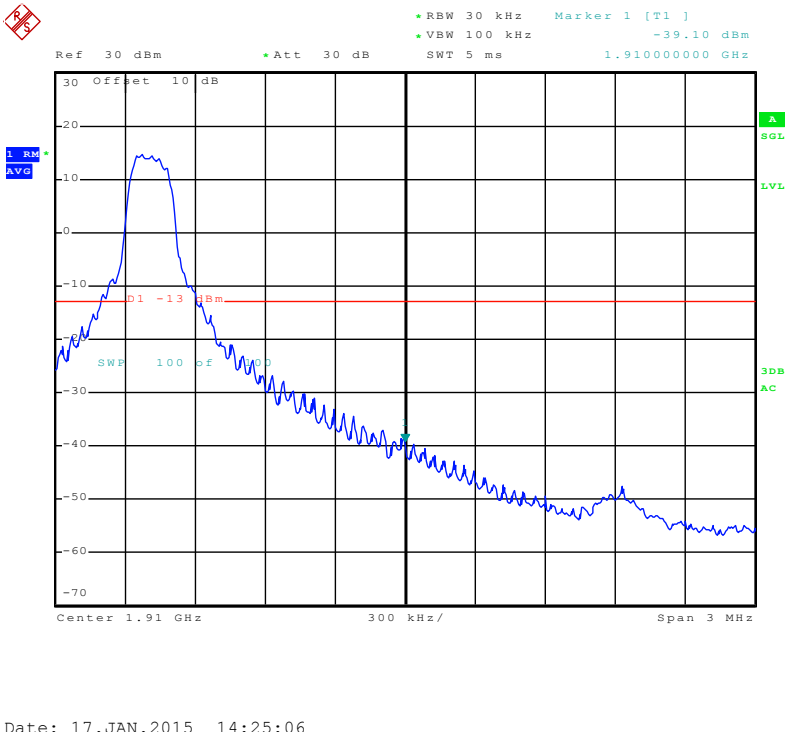


Date: 17.JAN.2015 14:09:19

Lowest channel

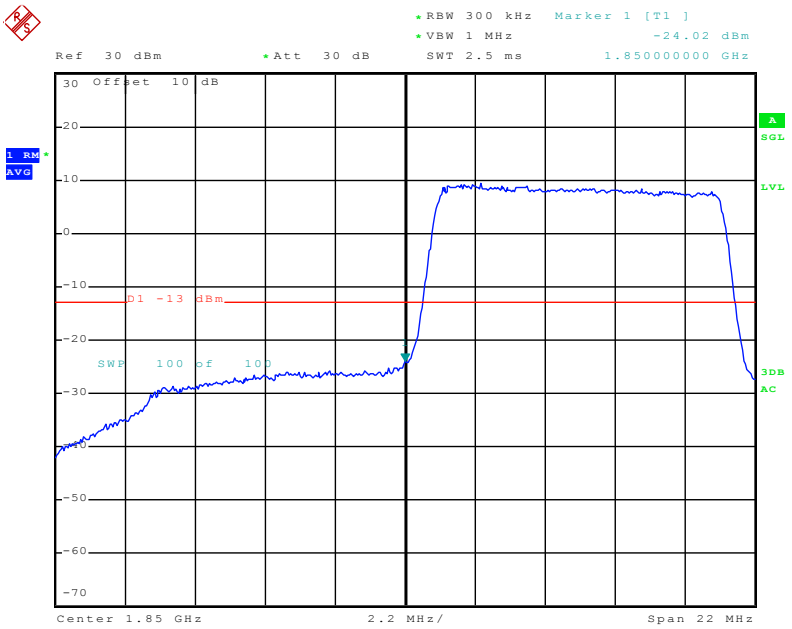


Date: 17.JAN.2015 14:11:08



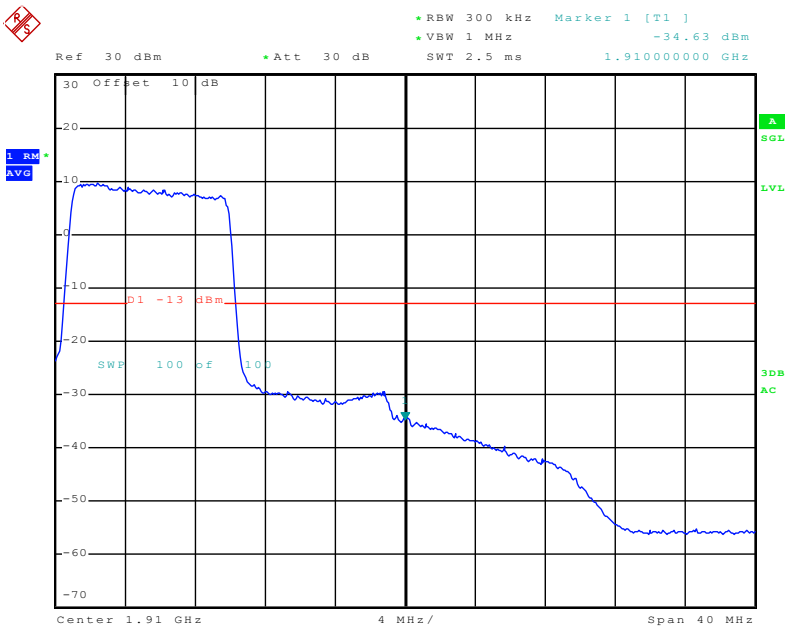
Highest channel

Test Mode: LTE band 2(QPSK RB Size 50 & RB Offset 0)



Date: 17.JAN.2015 14:12:53

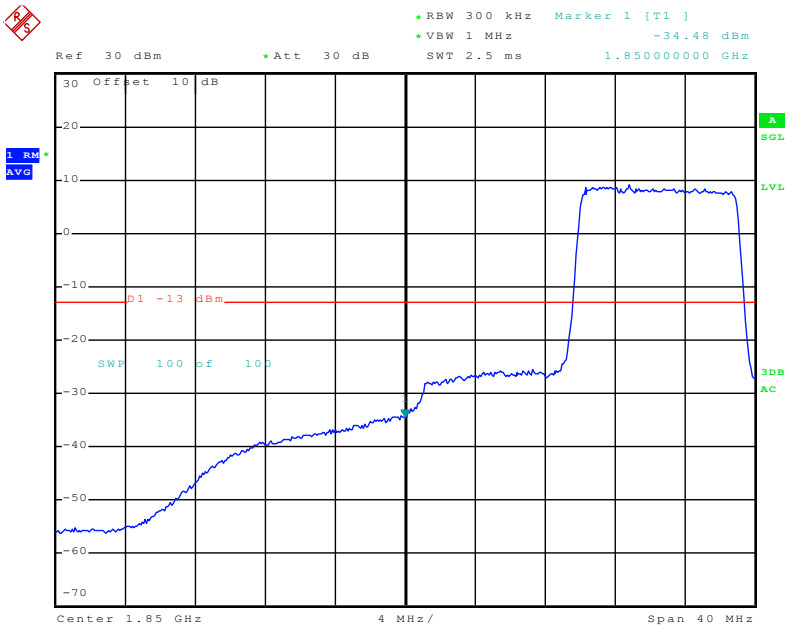
Lowest channel



Date: 17.JAN.2015 14:36:37

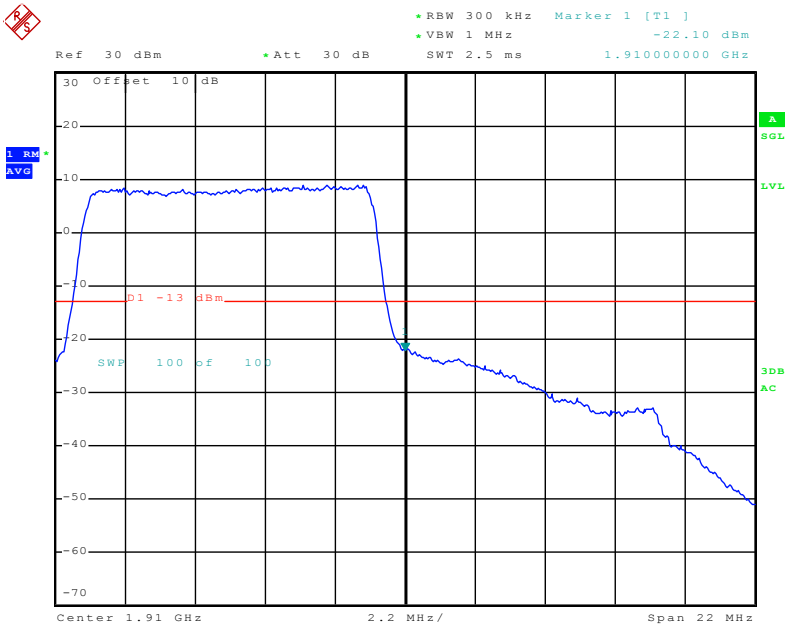
Highest channel

Test Mode: LTE band 2(QPSK RB Size 50 & RB Offset 49)



Date: 17.JAN.2015 14:14:33

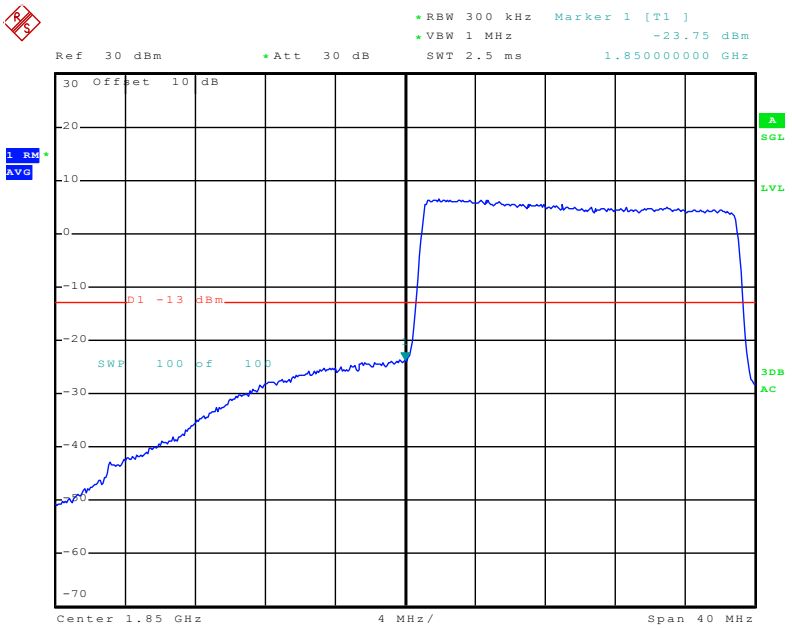
Lowest channel



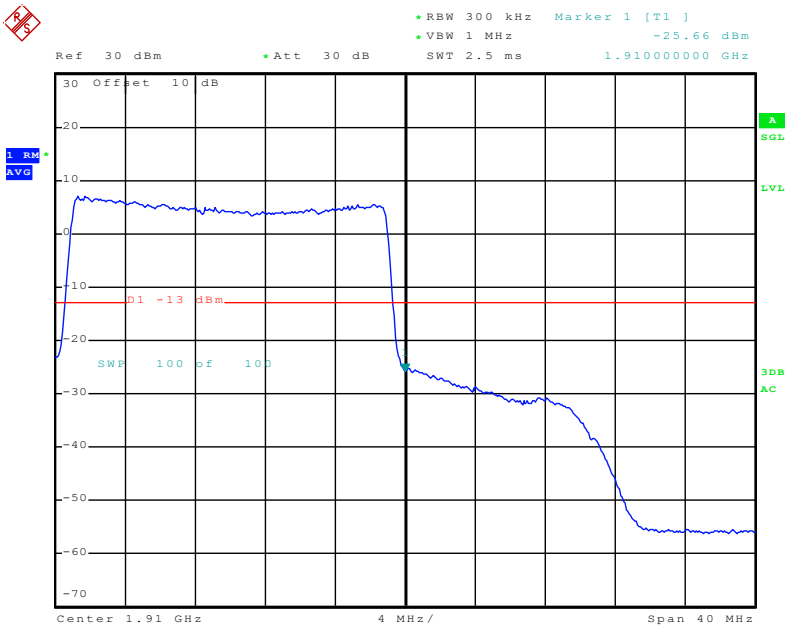
Date: 17.JAN.2015 14:36:56

Highest channel

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



Lowest channel

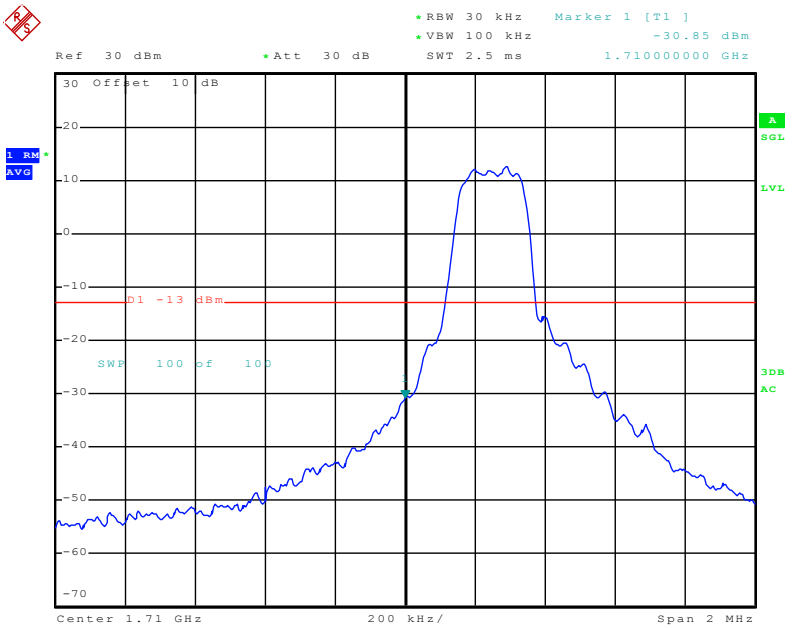


Highest channel

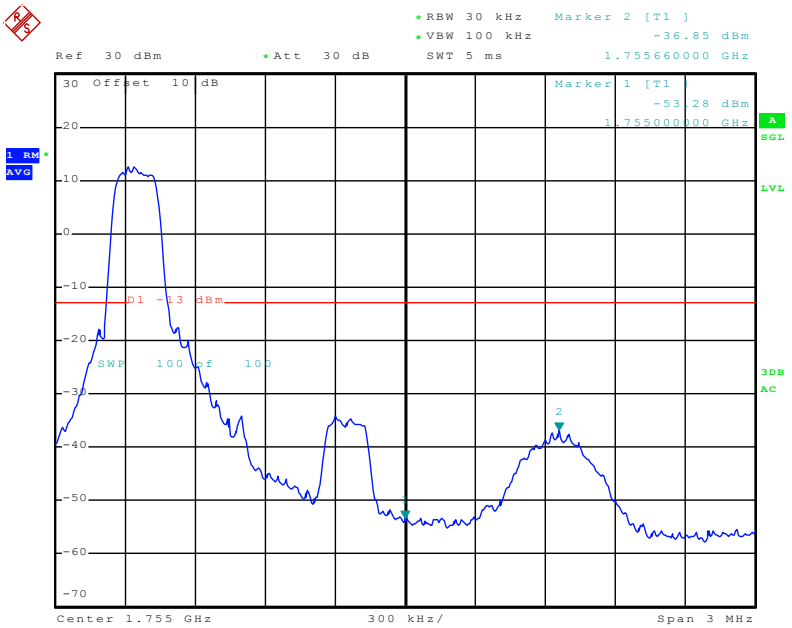
LTE band 4 part:

1.4MHz:

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

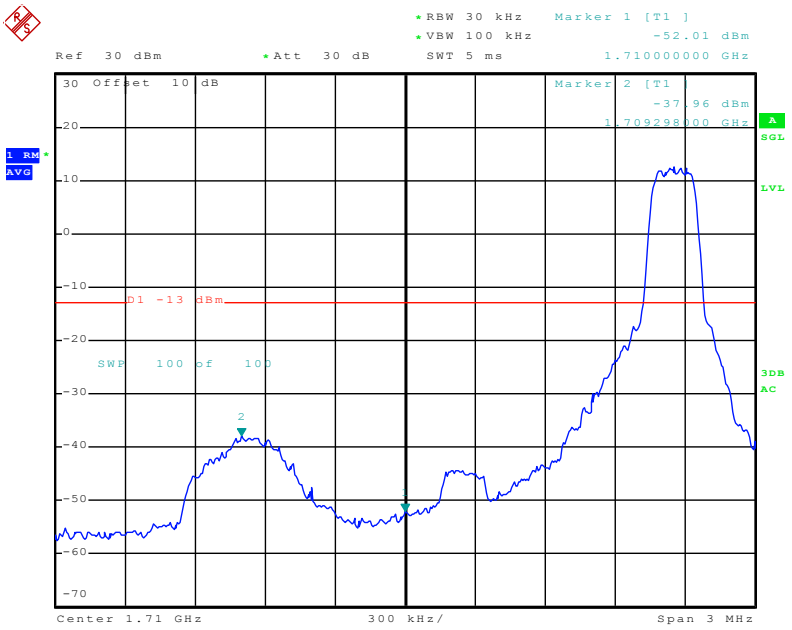


Lowest channel



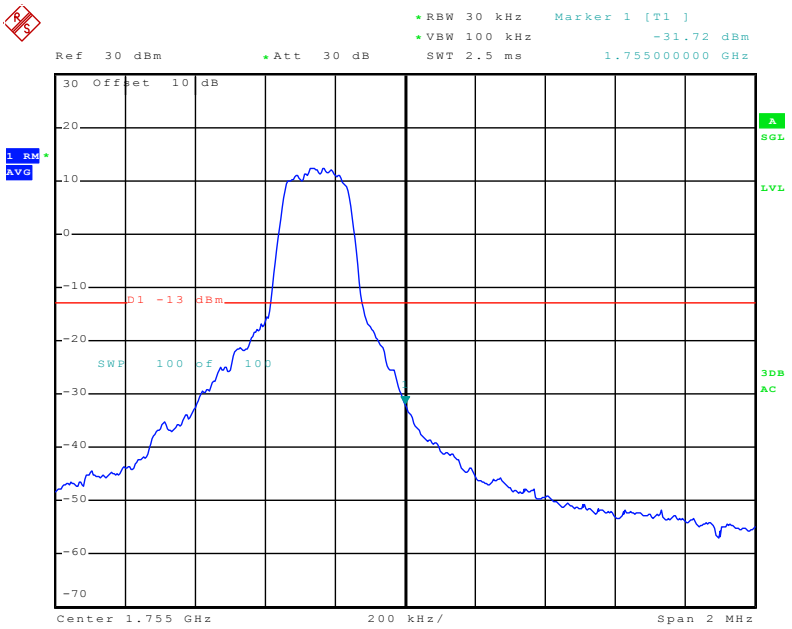
Highest channel

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



Date: 17.JAN.2015 14:50:36

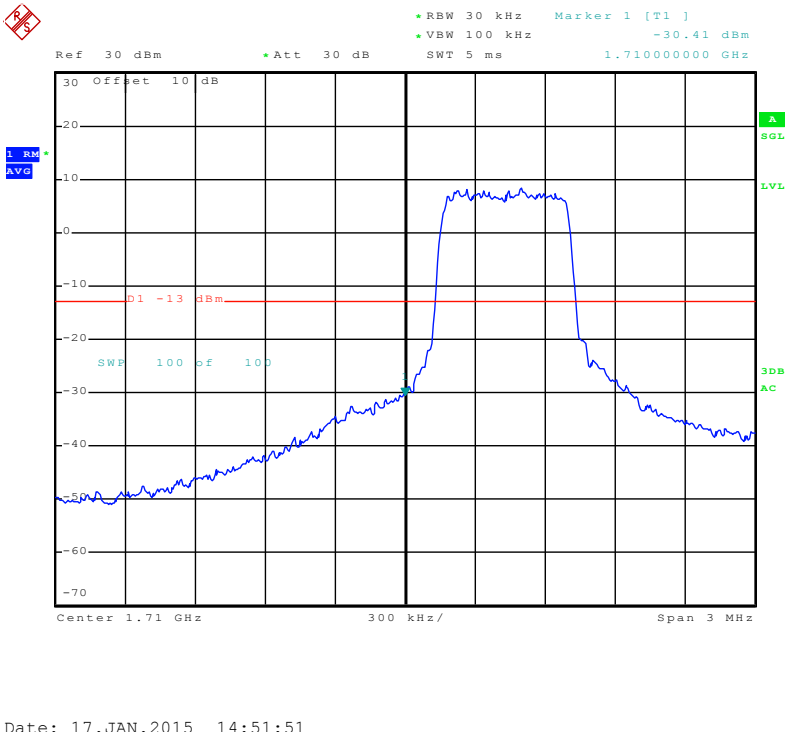
Lowest channel



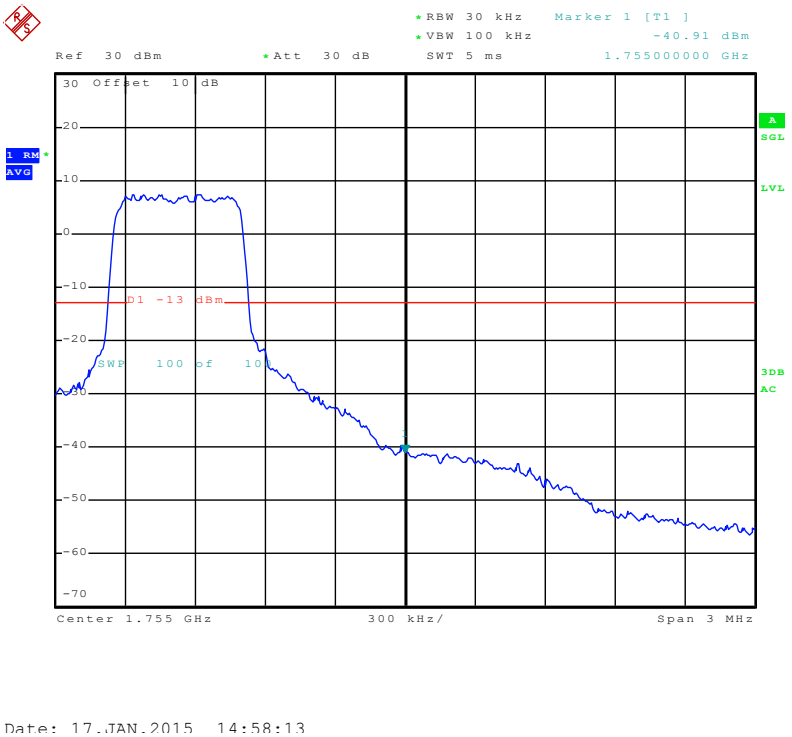
Date: 17.JAN.2015 14:57:48

Highest channel

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

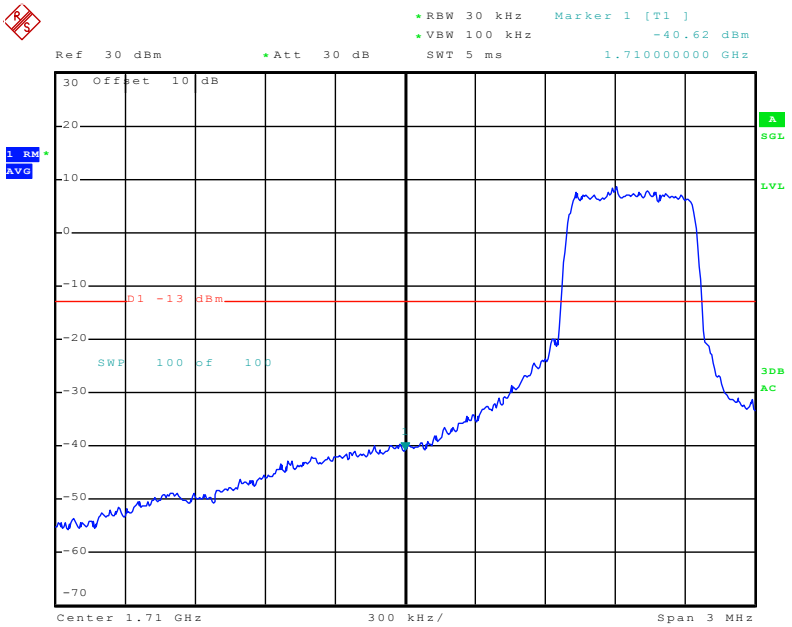


Lowest channel

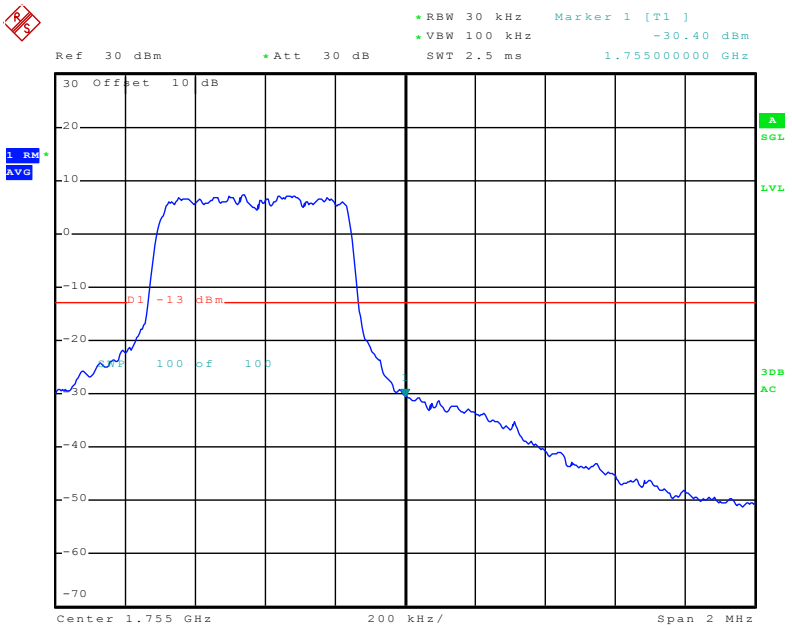


Highest channel

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

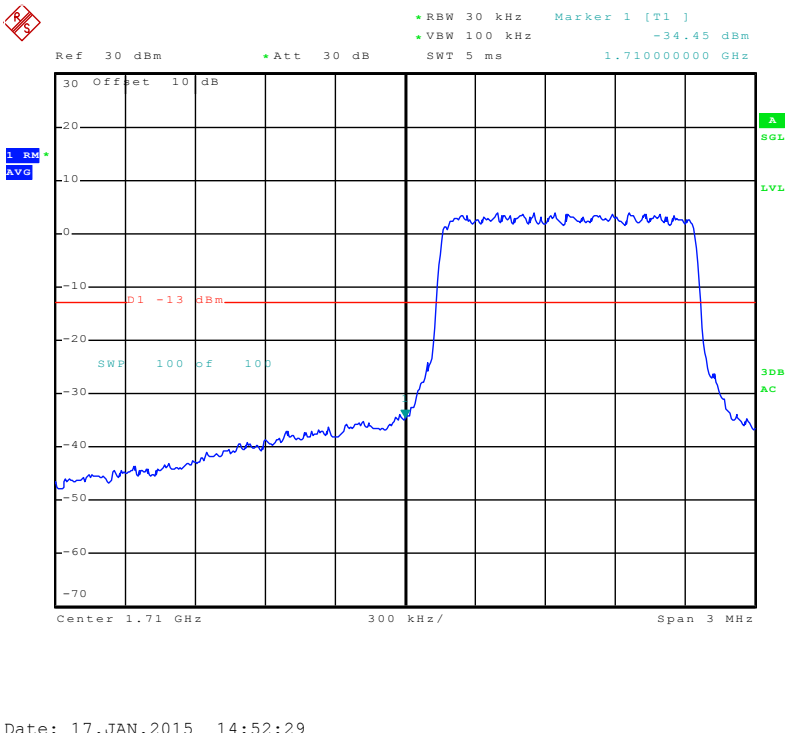


Lowest channel

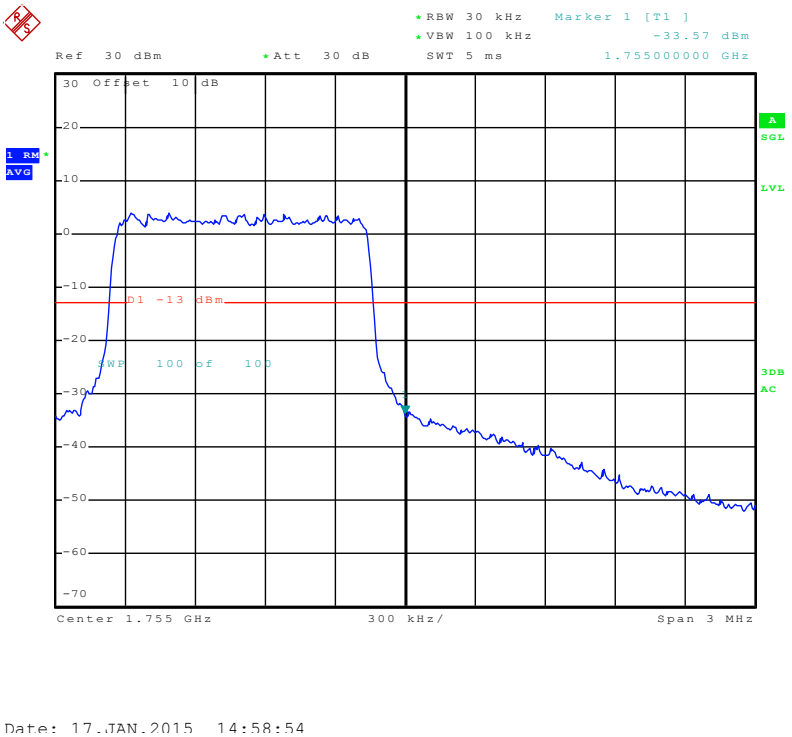


Highest channel

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

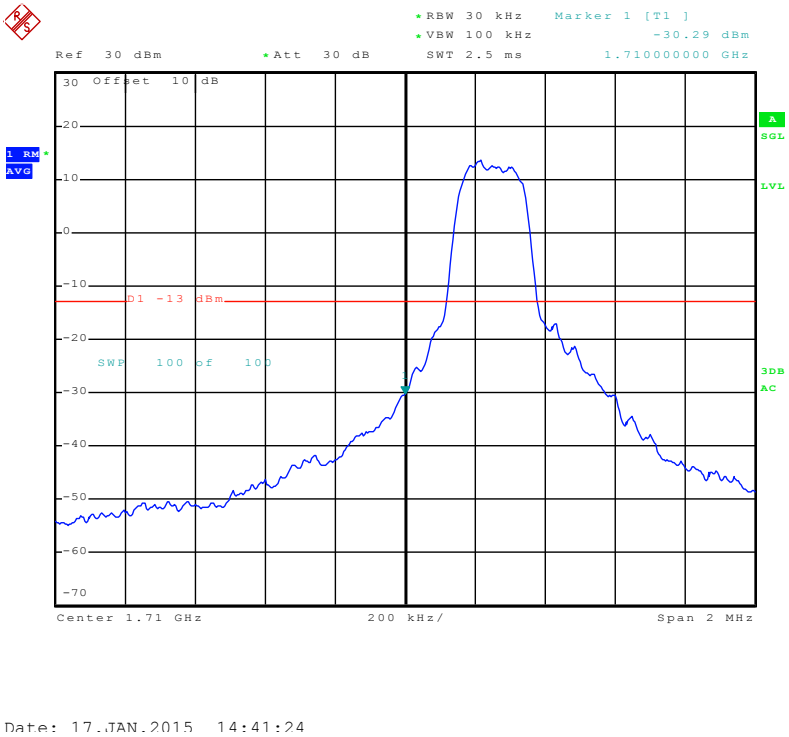


Lowest channel

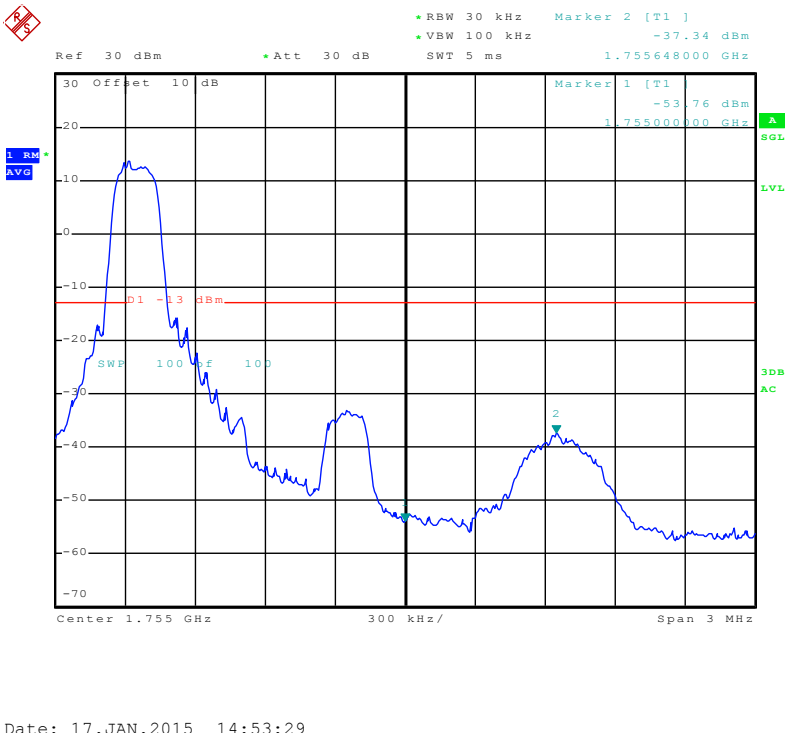


Highest channel

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

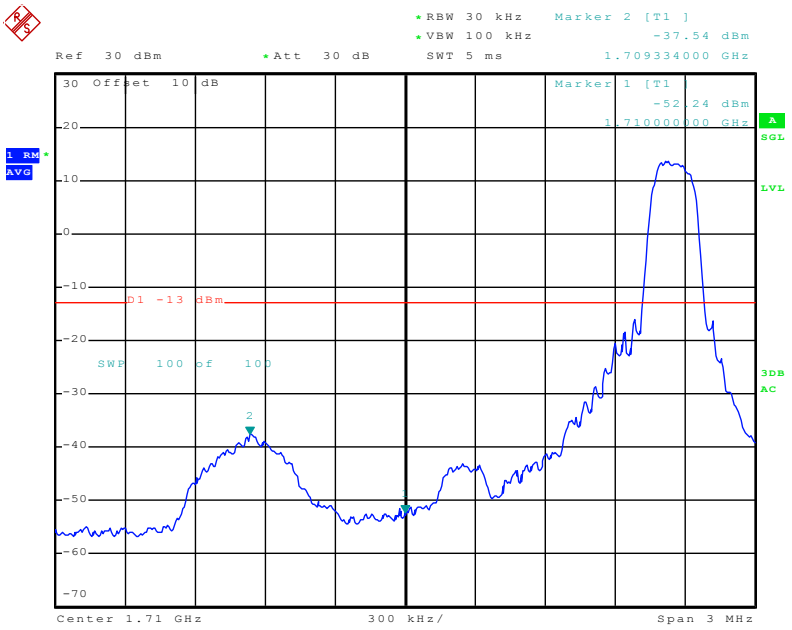


Lowest channel



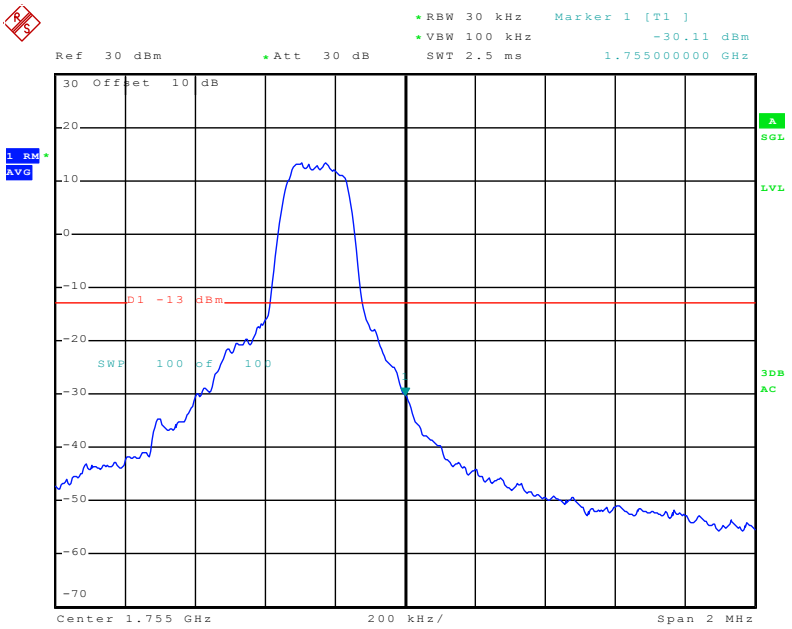
Highest channel

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



Date: 17.JAN.2015 14:42:34

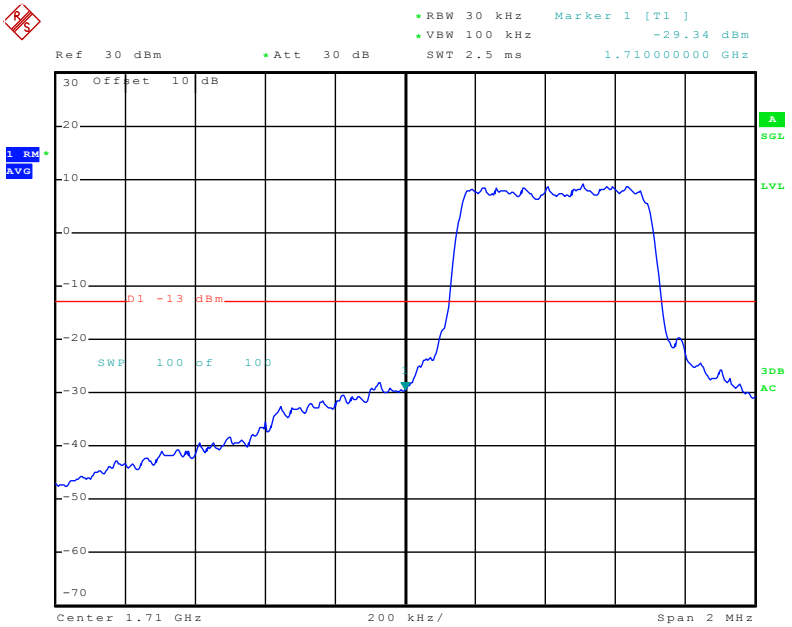
Lowest channel



Date: 17.JAN.2015 14:54:48

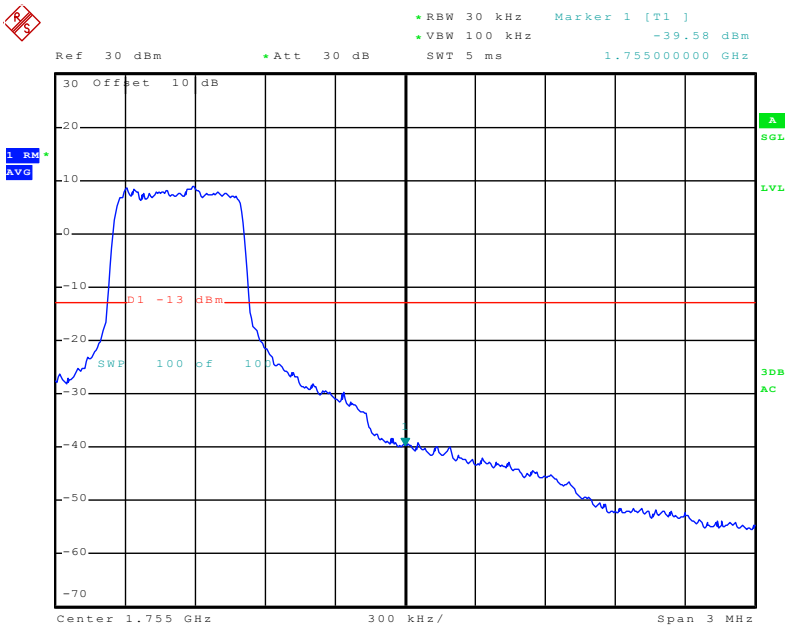
Highest channel

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



Date: 17.JAN.2015 14:46:18

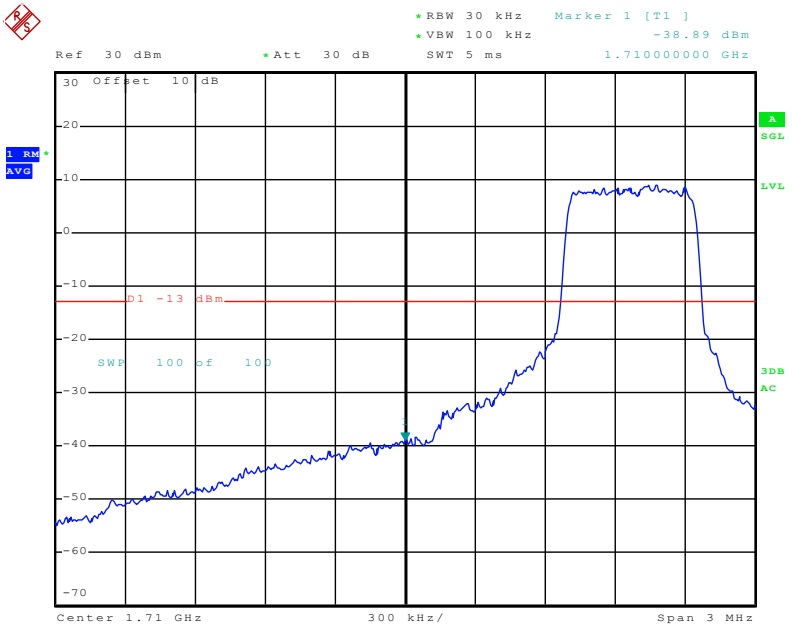
Lowest channel



Date: 17.JAN.2015 14:55:10

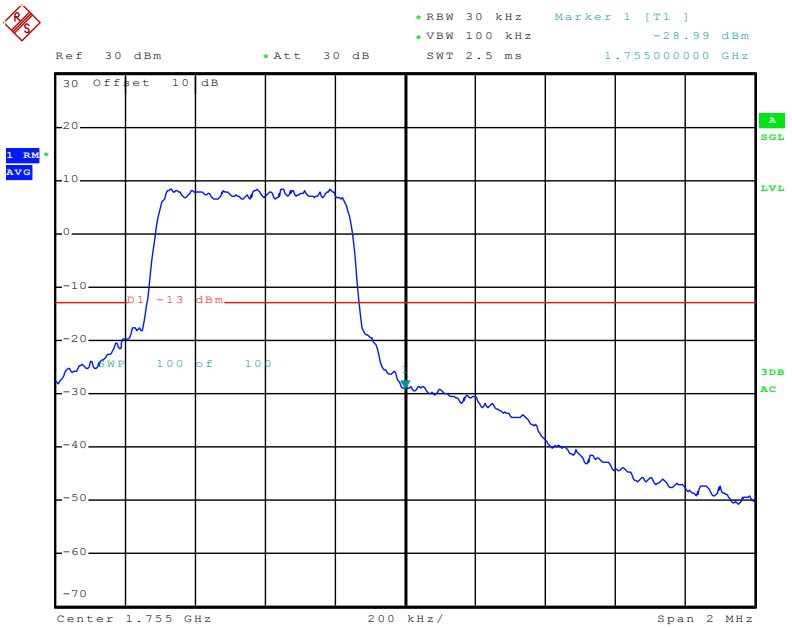
Highest channel

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



Date: 17.JAN.2015 14:46:47

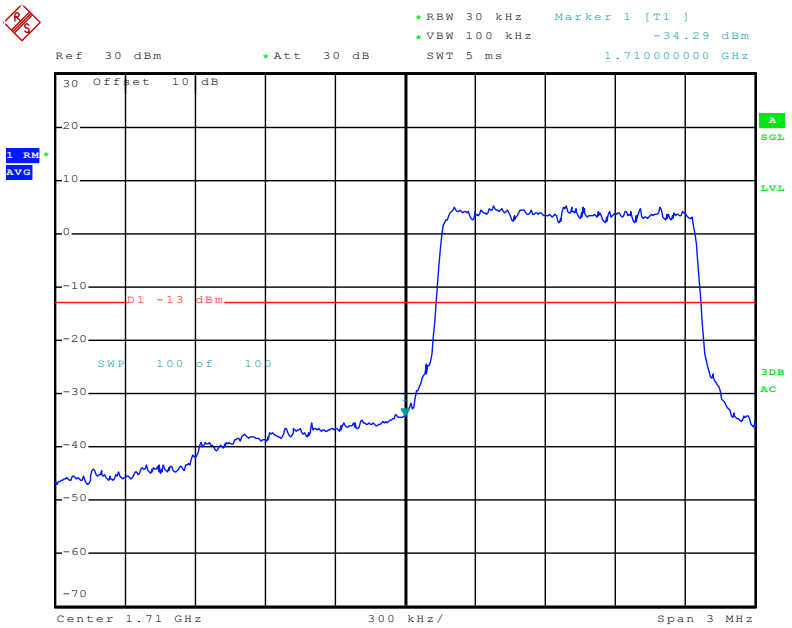
Lowest channel



Date: 17.JAN.2015 14:55:29

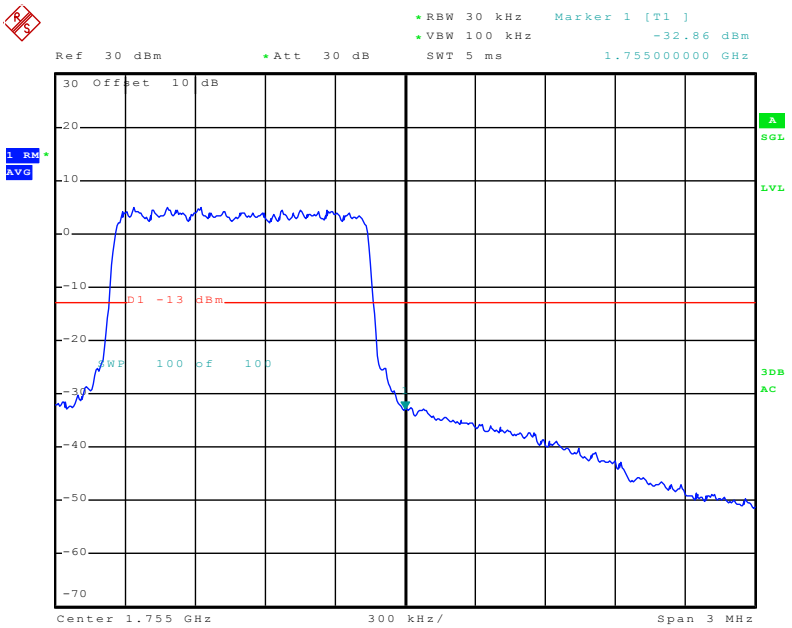
Highest channel

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



Date: 17.JAN.2015 14:47:38

Lowest channel

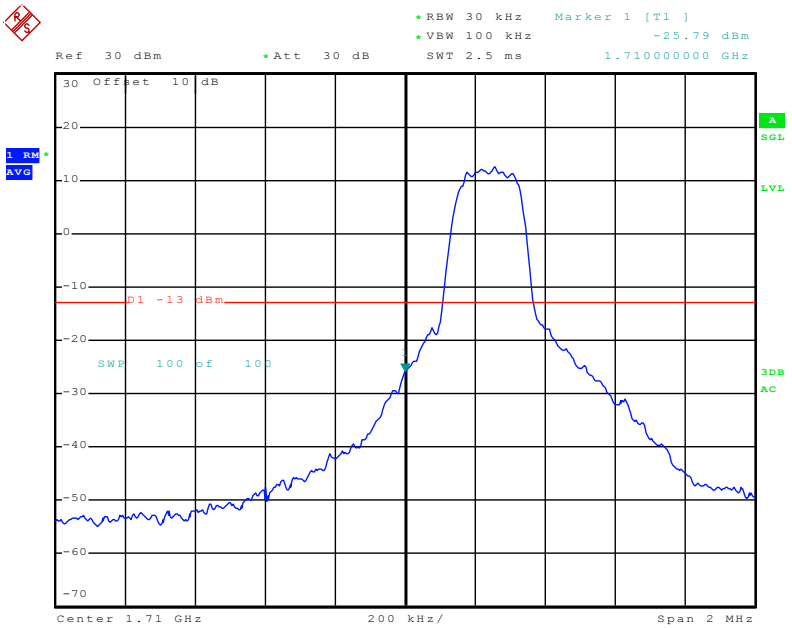


Date: 17.JAN.2015 14:55:51

Highest channel

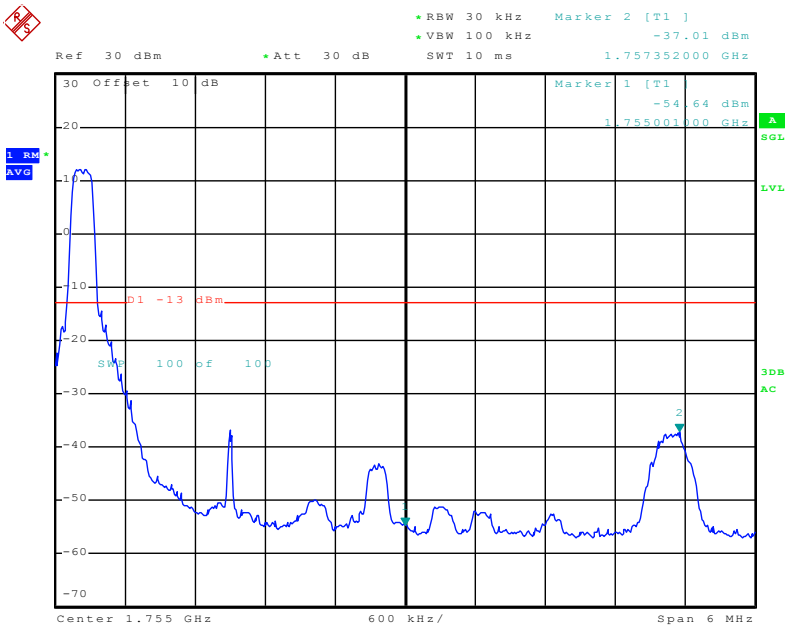
3MHz

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



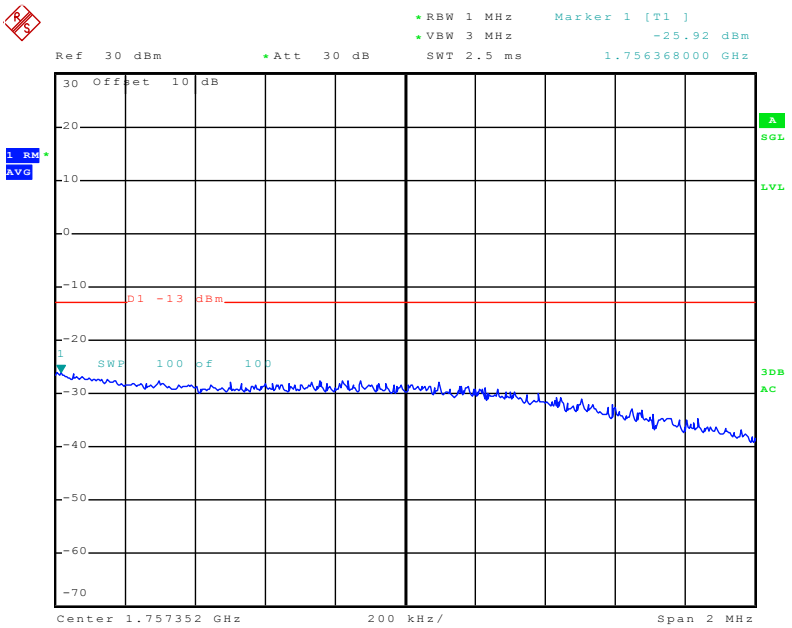
Date: 17.JAN.2015 15:04:51

Lowest channel



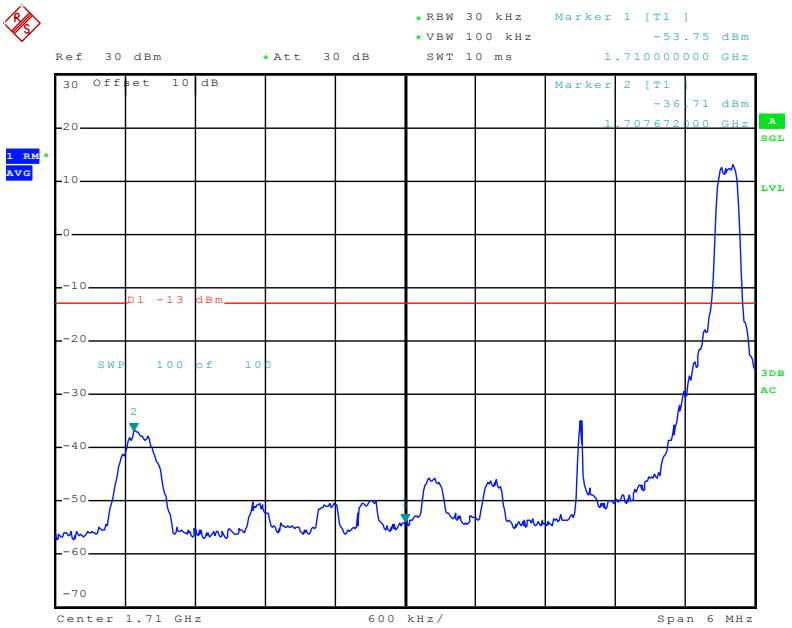
Date: 17.JAN.2015 15:11:38

Highest channel



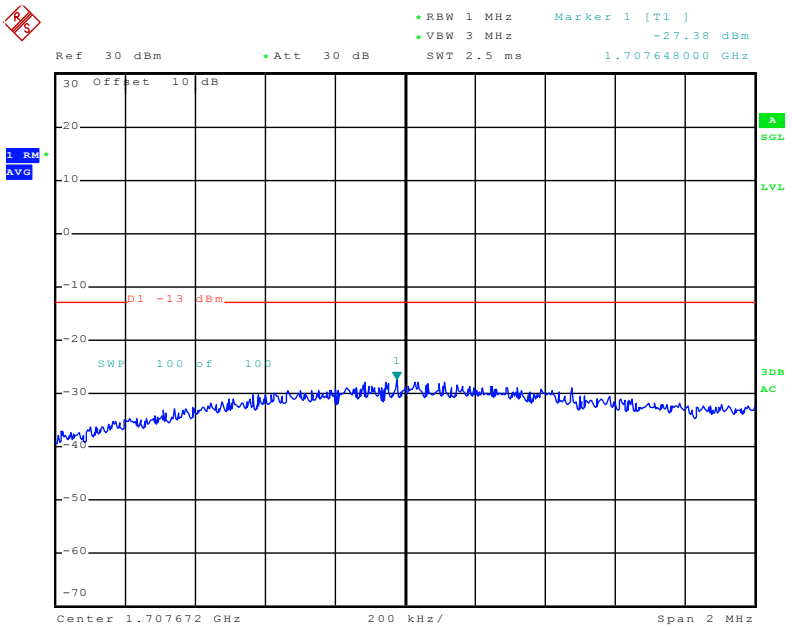
Date: 17.JAN.2015 15:12:01

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

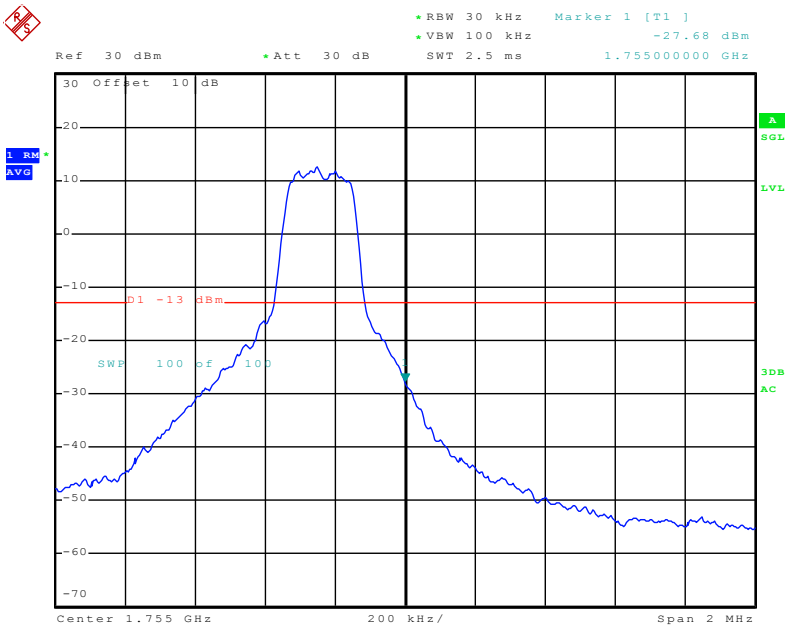


Date: 17.JAN.2015 15:05:18

Lowest channel



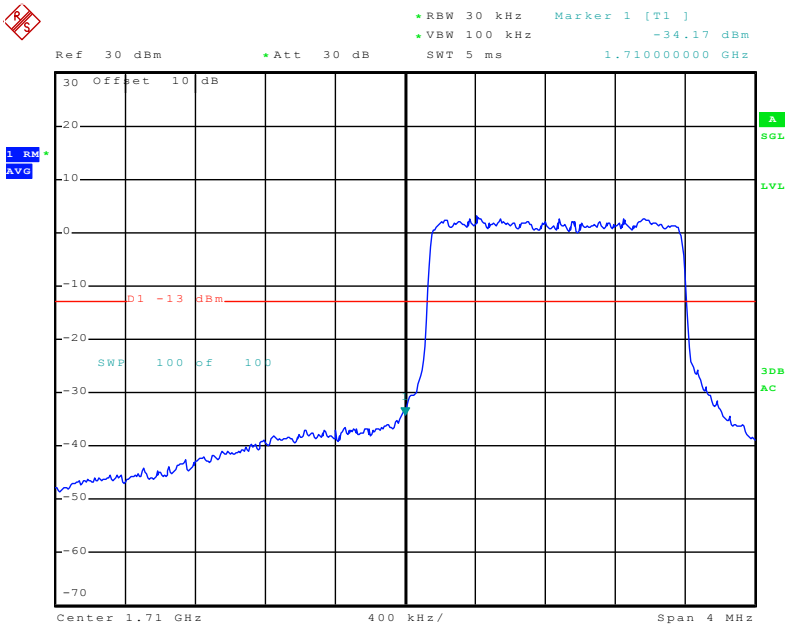
Date: 17.JAN.2015 15:05:48



Date: 17.JAN.2015 15:12:38

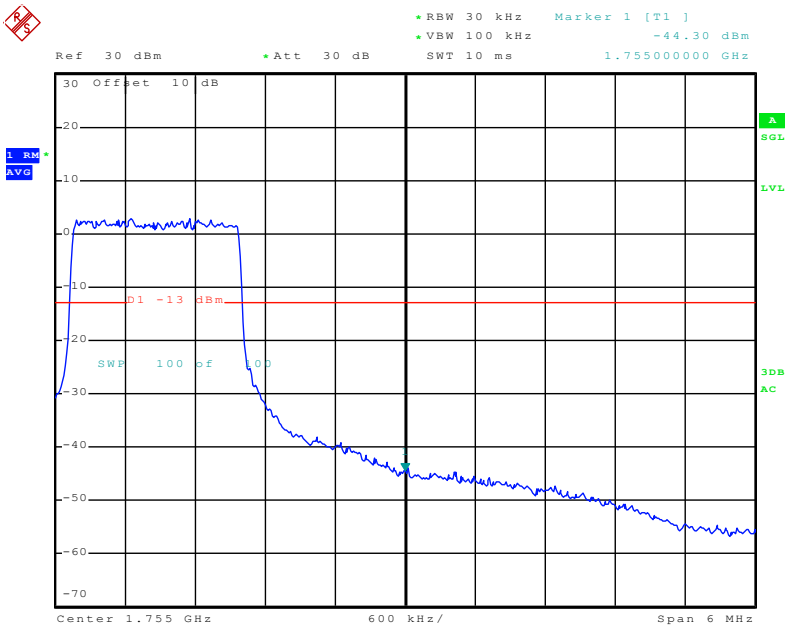
Highest channel

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



Date: 17.JAN.2015 15:06:47

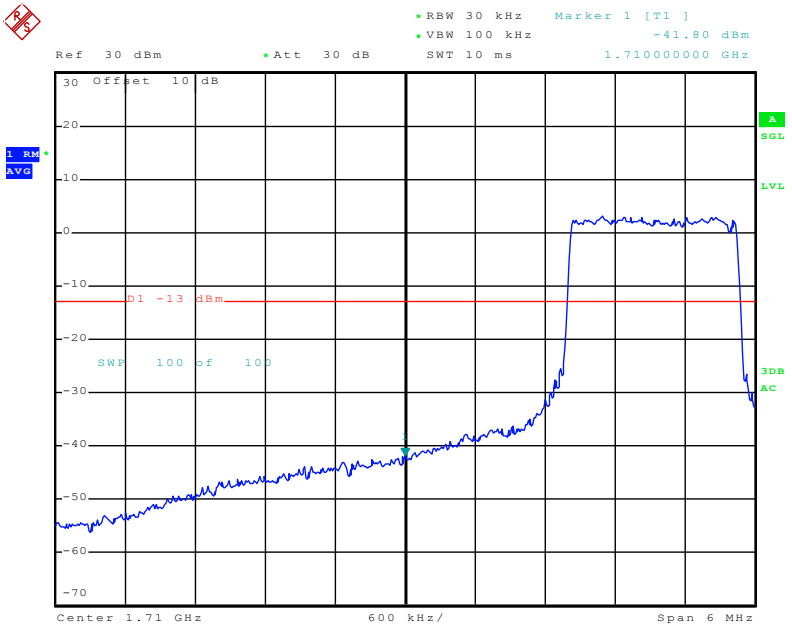
Lowest channel



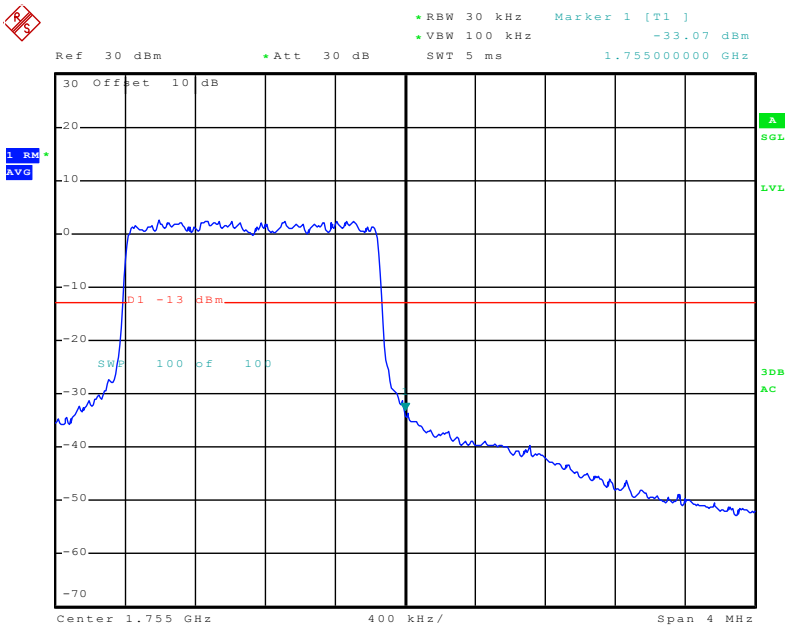
Date: 17.JAN.2015 15:13:07

Highest channel

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

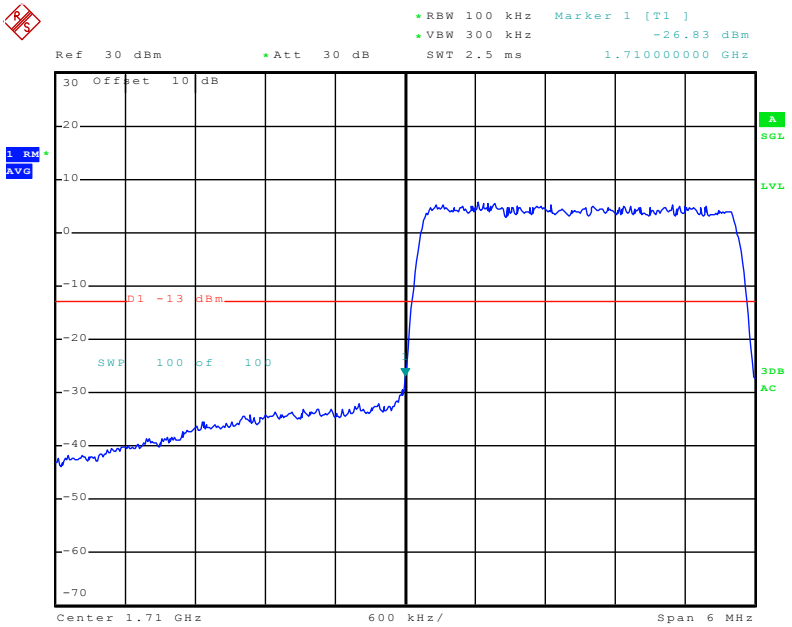


Lowest channel

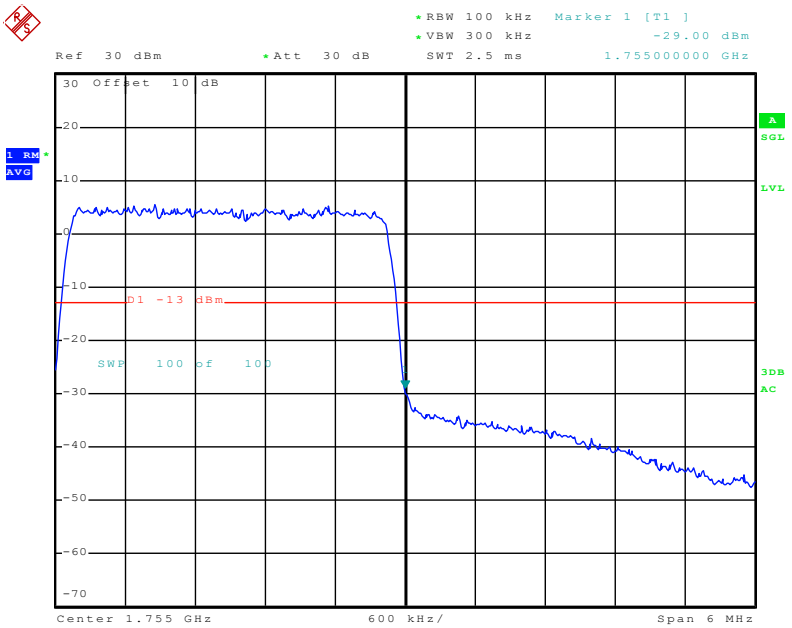


Highest channel

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

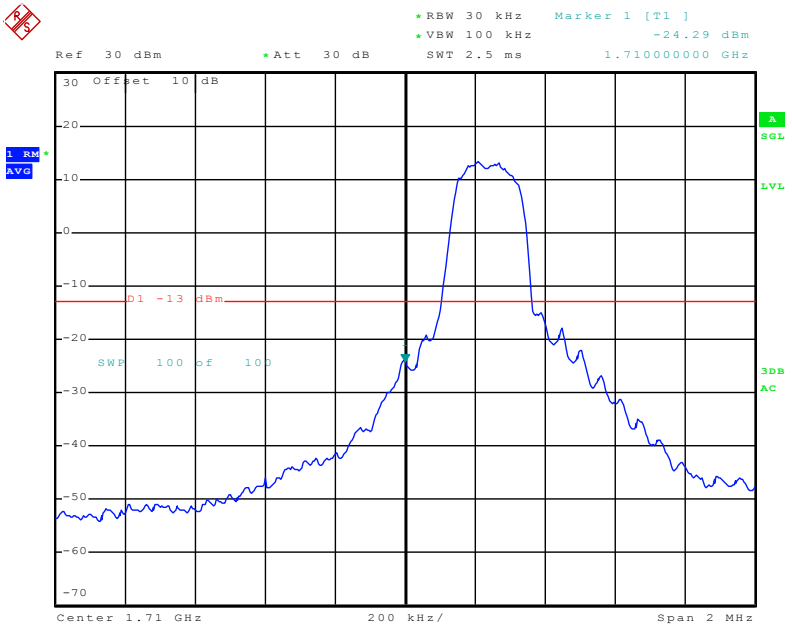


Lowest channel



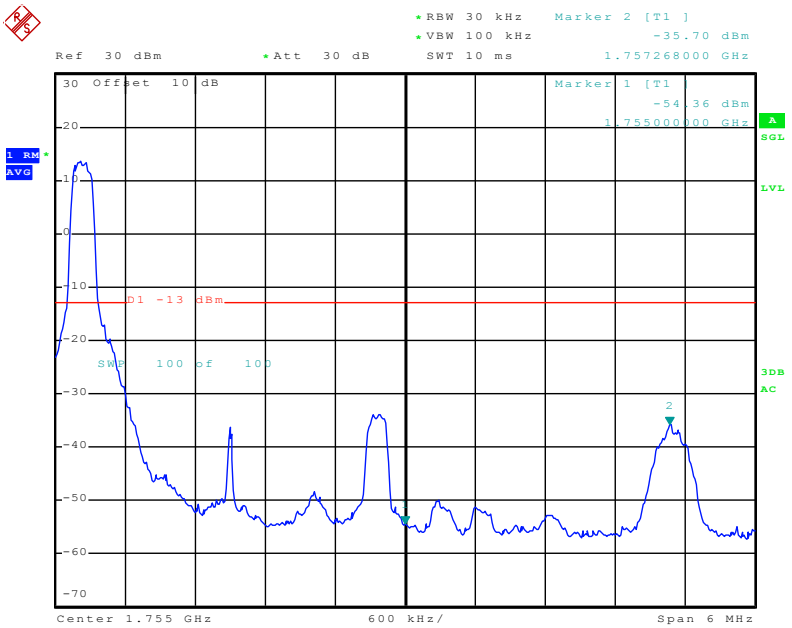
Highest channel

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



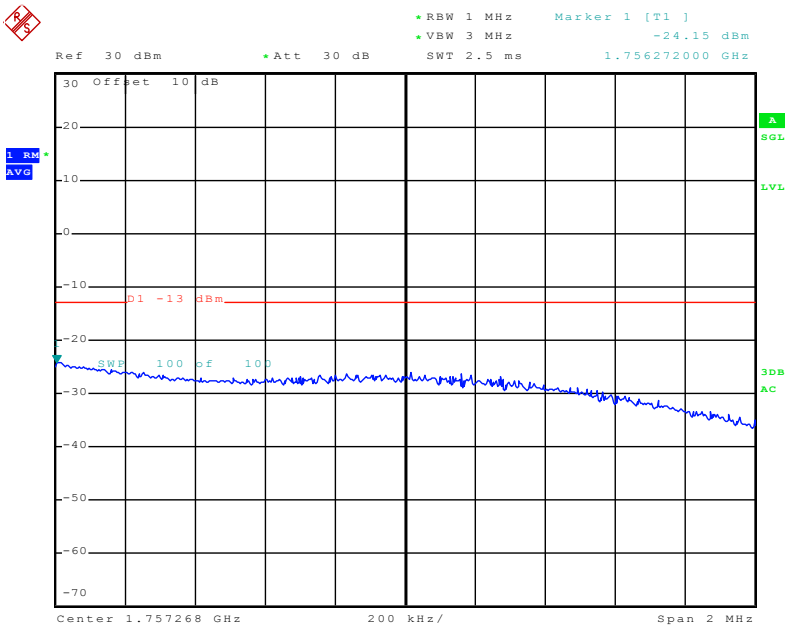
Date: 17.JAN.2015 15:00:49

Lowest channel



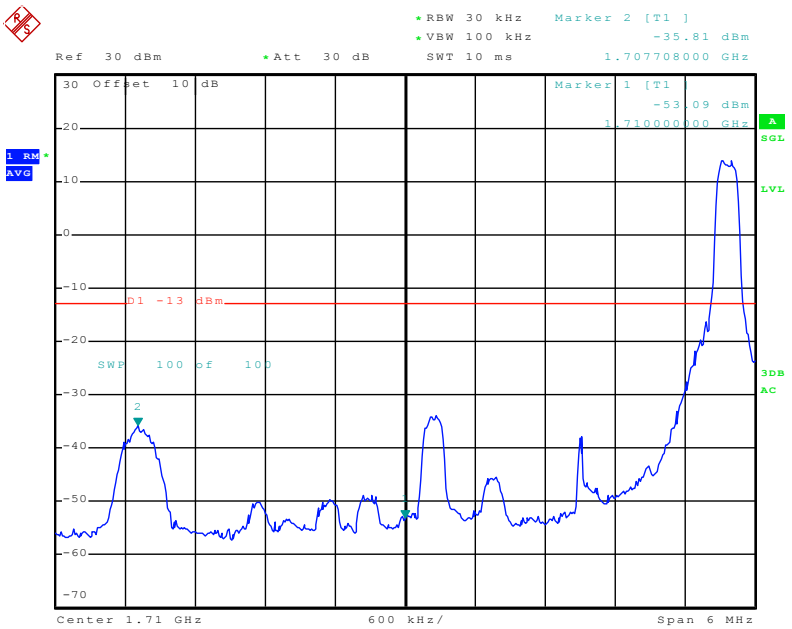
Date: 17.JAN.2015 15:08:33

Highest channel



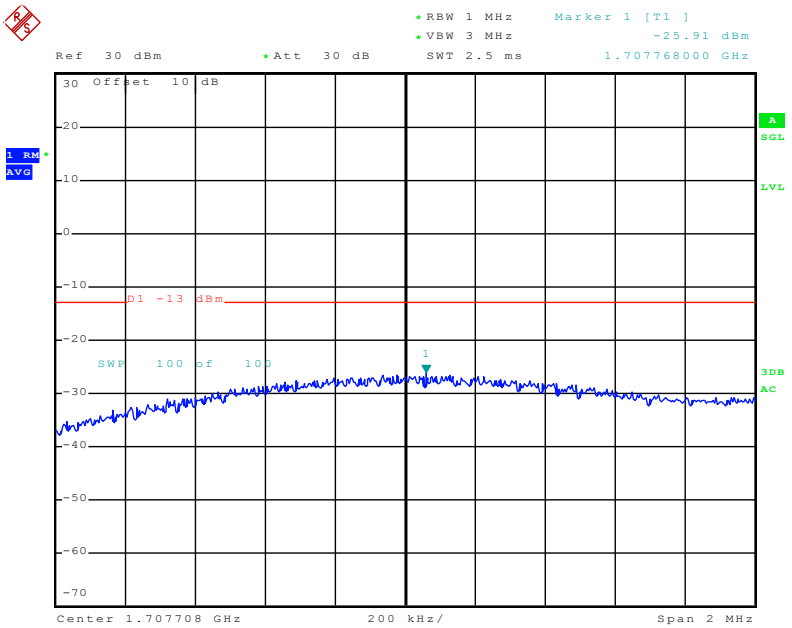
Date: 17.JAN.2015 15:09:13

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

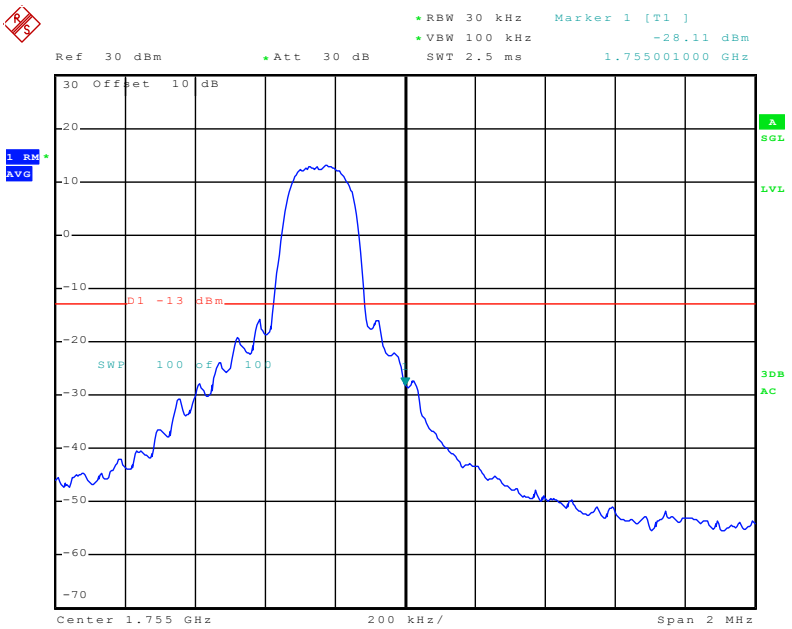


Date: 17.JAN.2015 15:01:24

Lowest channel



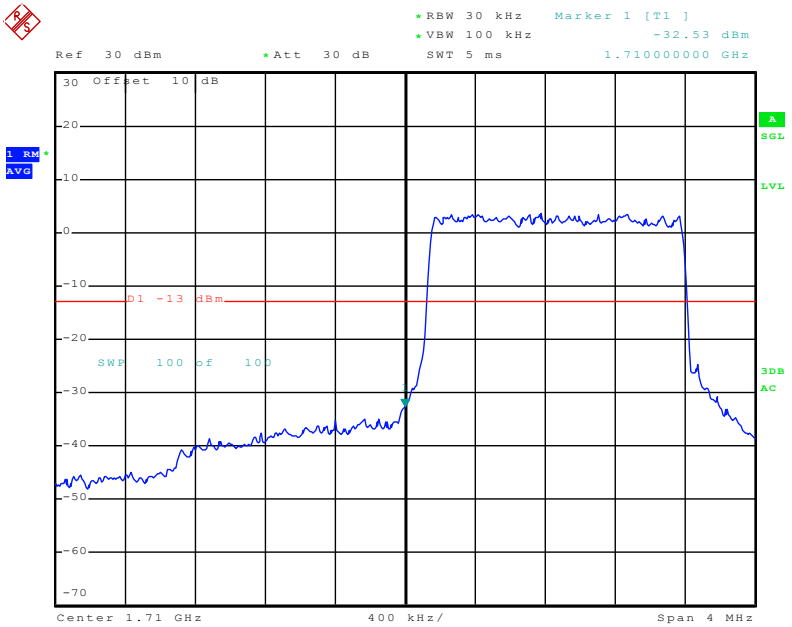
Date: 17.JAN.2015 15:02:06



Date: 17.JAN.2015 15:09:52

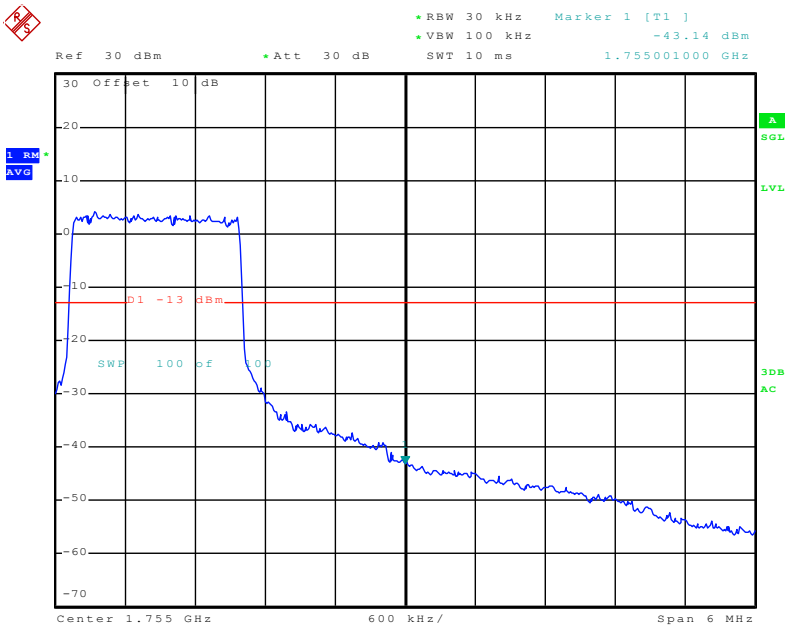
Highest channel

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



Date: 17.JAN.2015 15:03:00

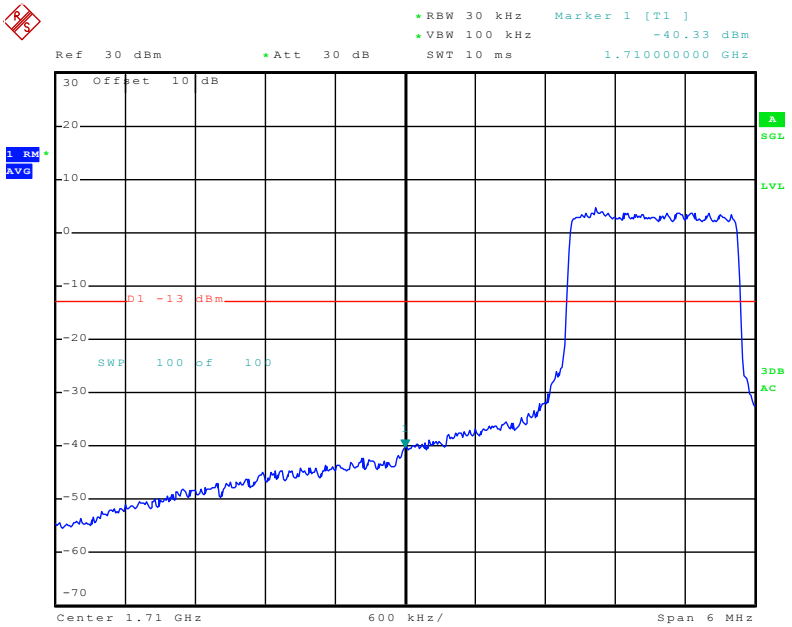
Lowest channel



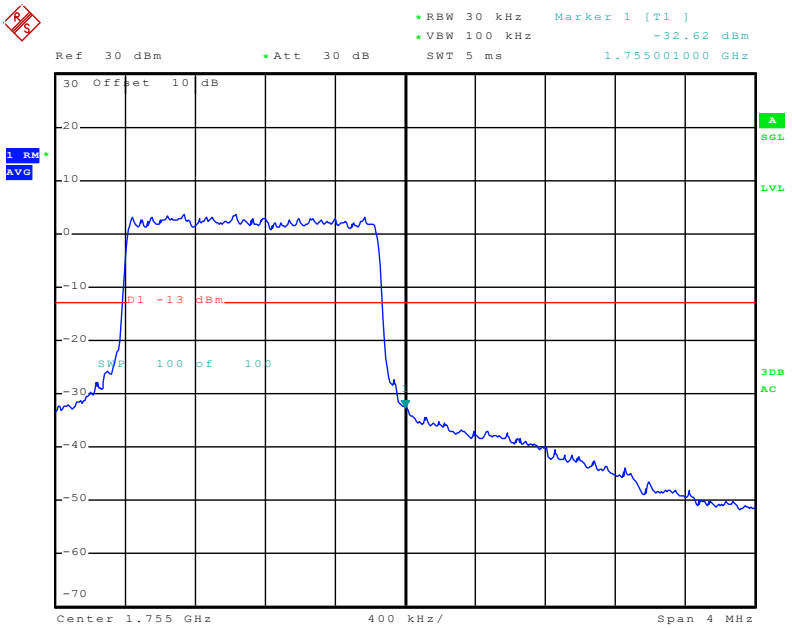
Date: 17.JAN.2015 15:10:26

Highest channel

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

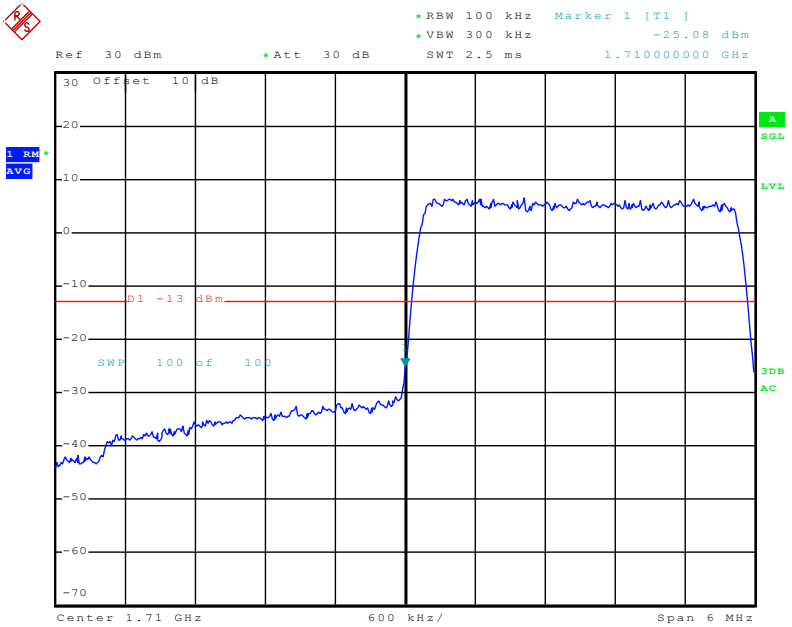


Lowest channel

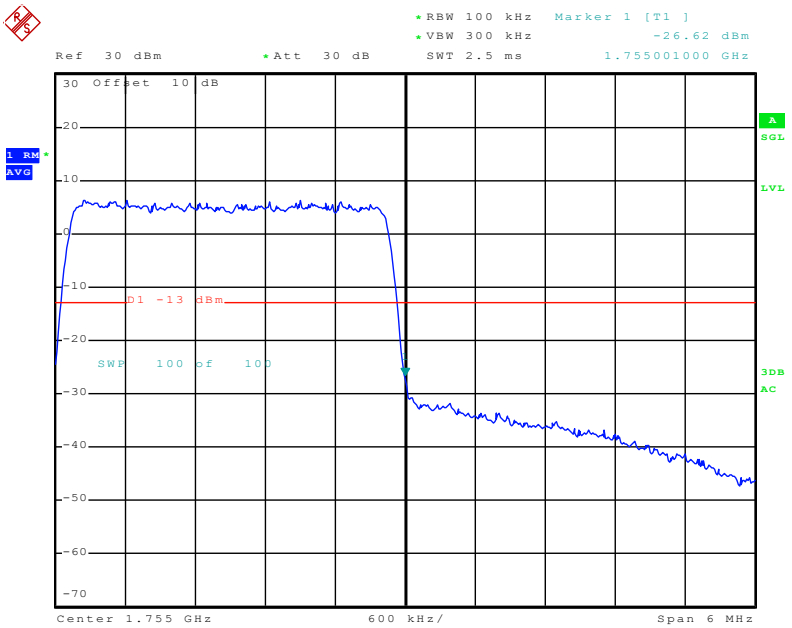


Highest channel

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



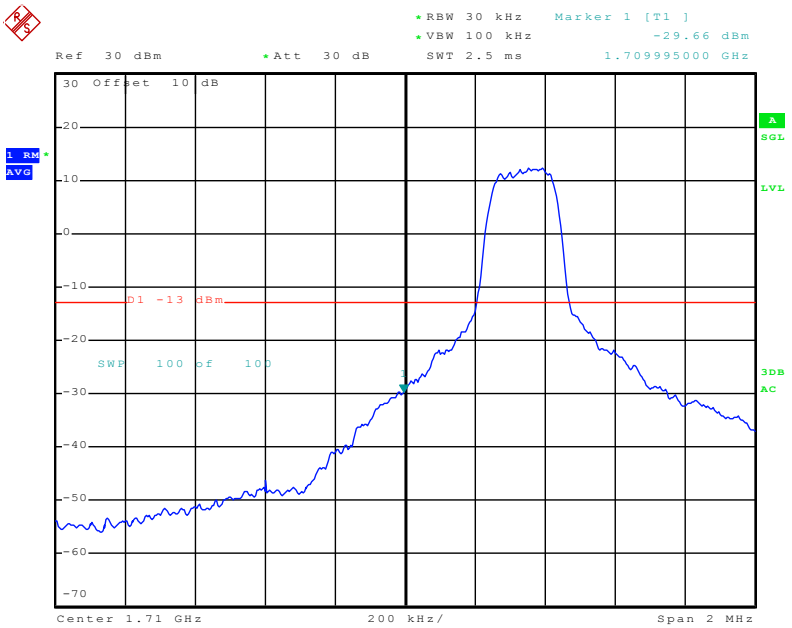
Lowest channel



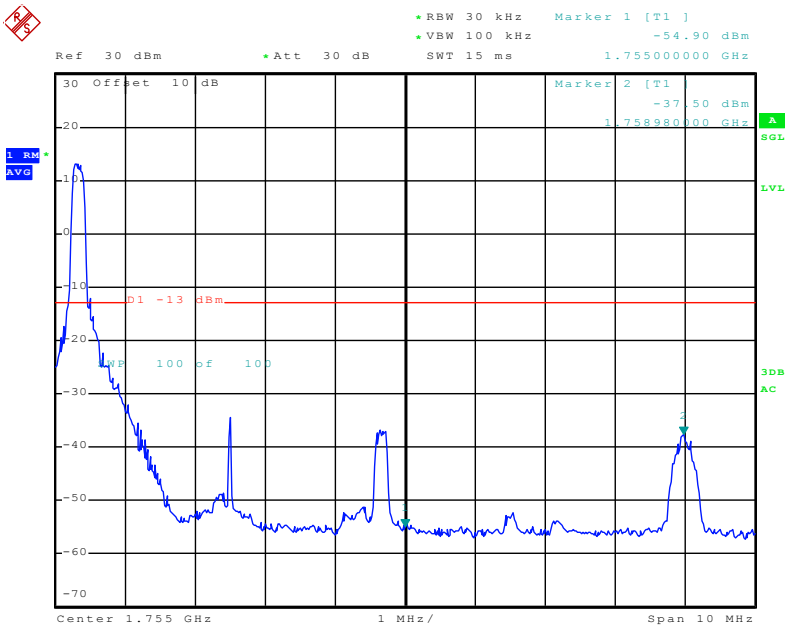
Highest channel

5MHz

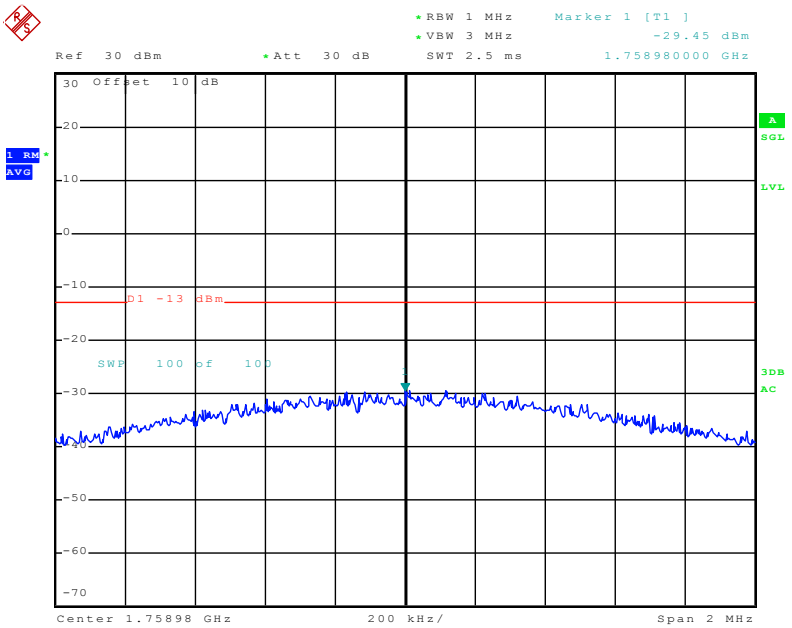
Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



Lowest channel

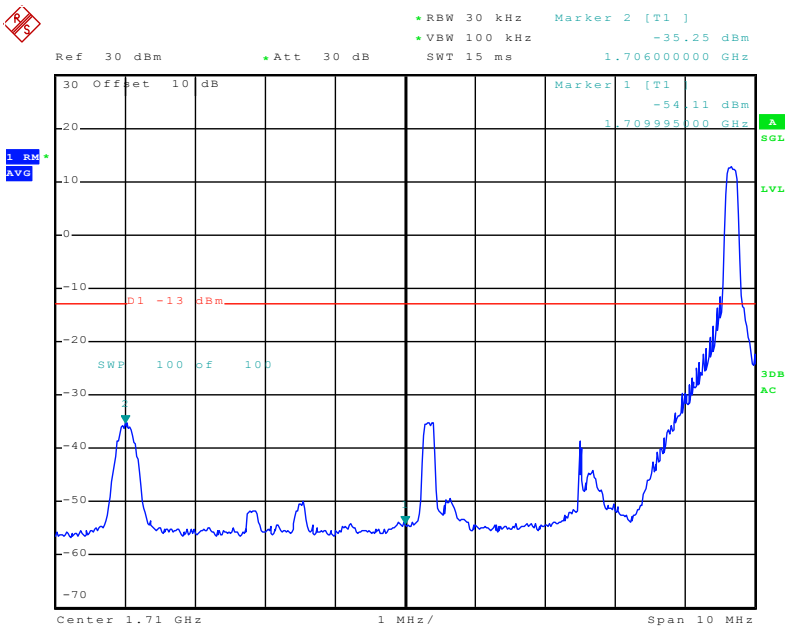


Highest channel



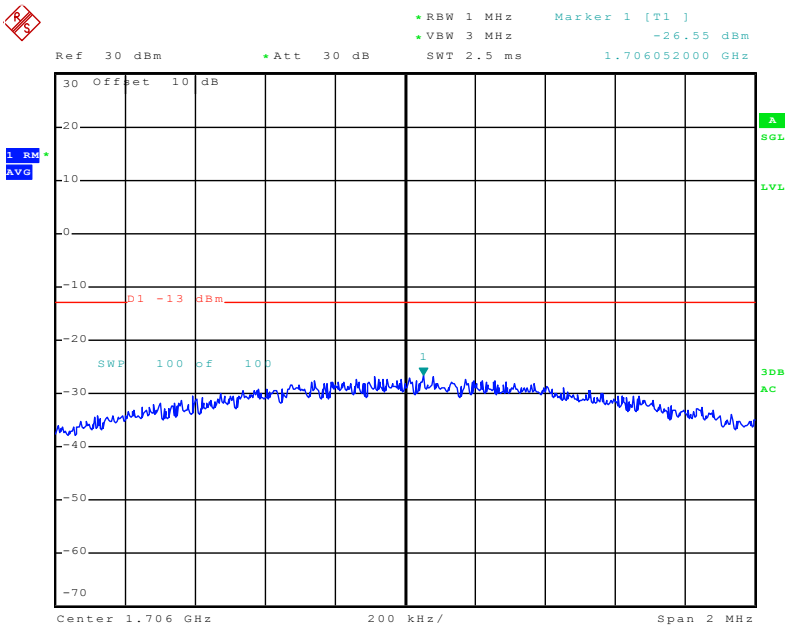
Date: 17.JAN.2015 15:27:42

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

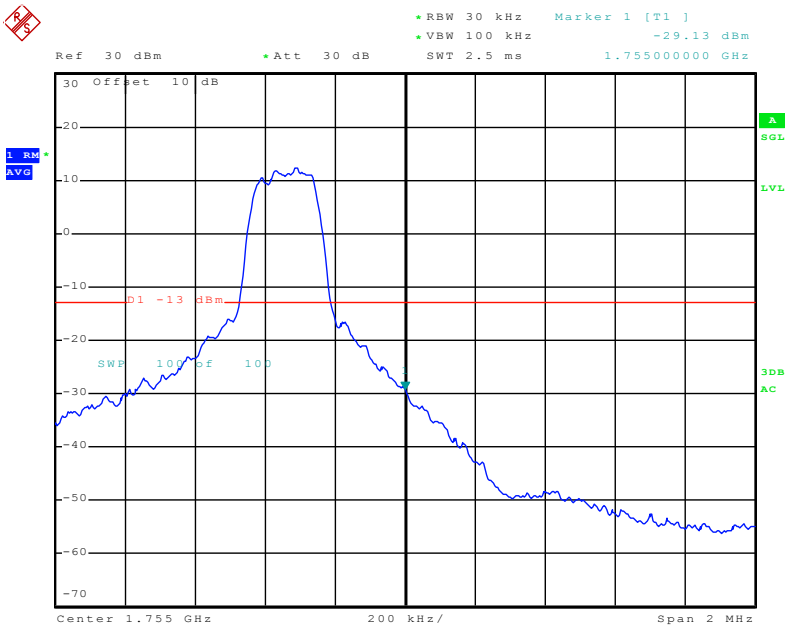


Date: 17.JAN.2015 15:21:33

Lowest channel



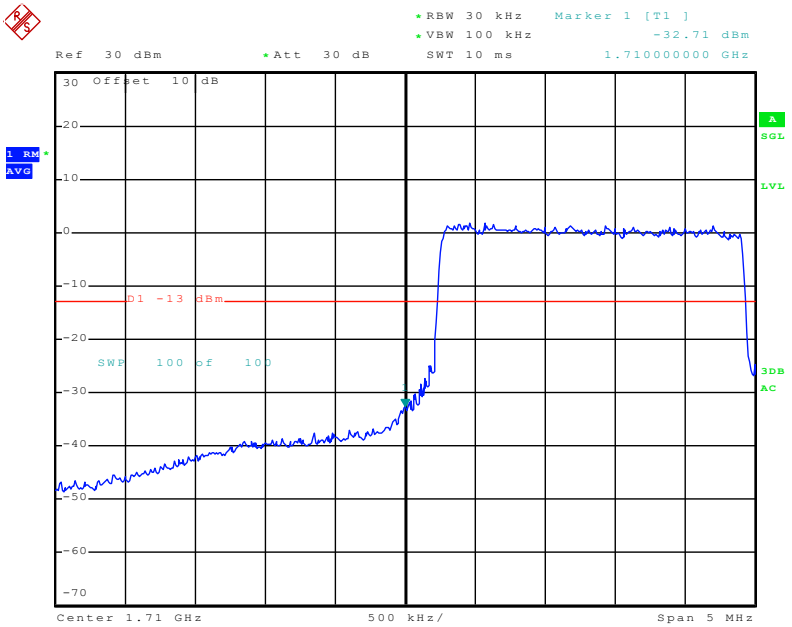
Date: 17.JAN.2015 15:21:55



Date: 17.JAN.2015 15:28:21

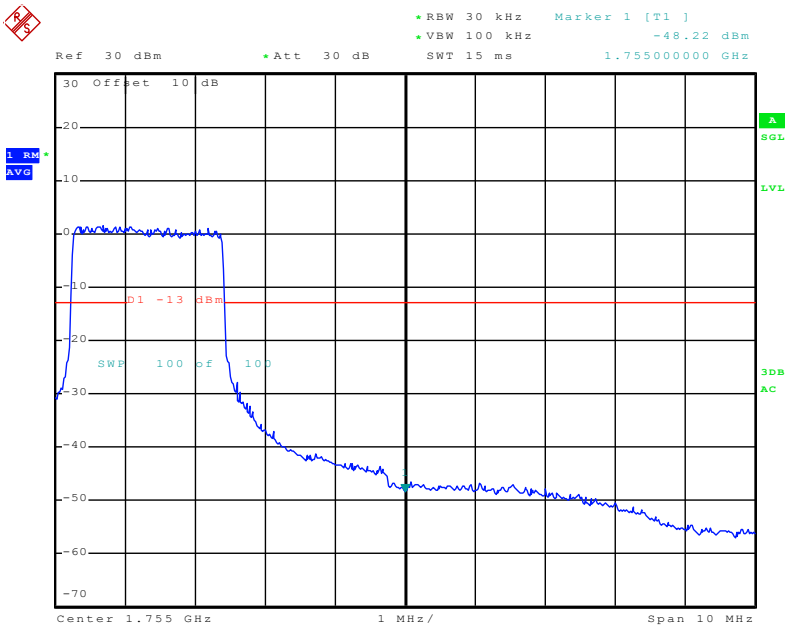
Highest channel

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



Date: 17.JAN.2015 15:22:48

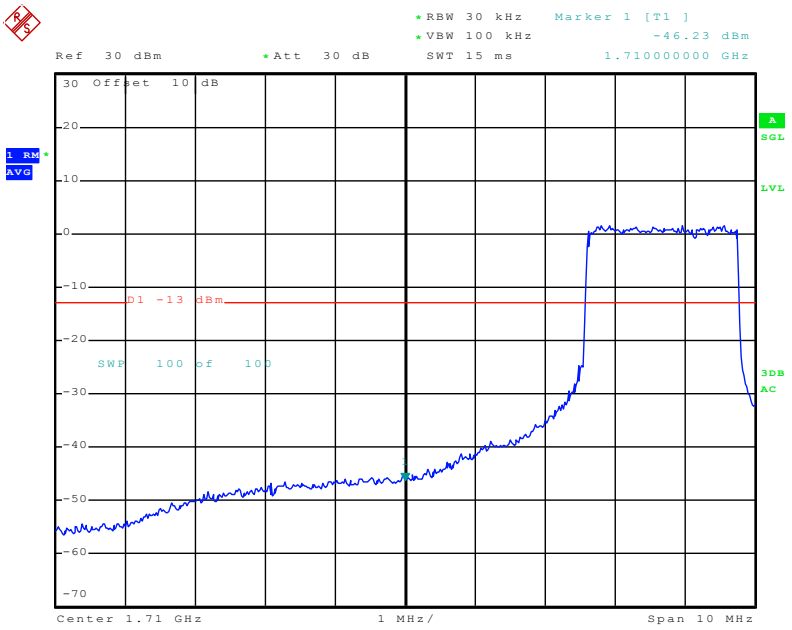
Lowest channel



Date: 17.JAN.2015 15:28:57

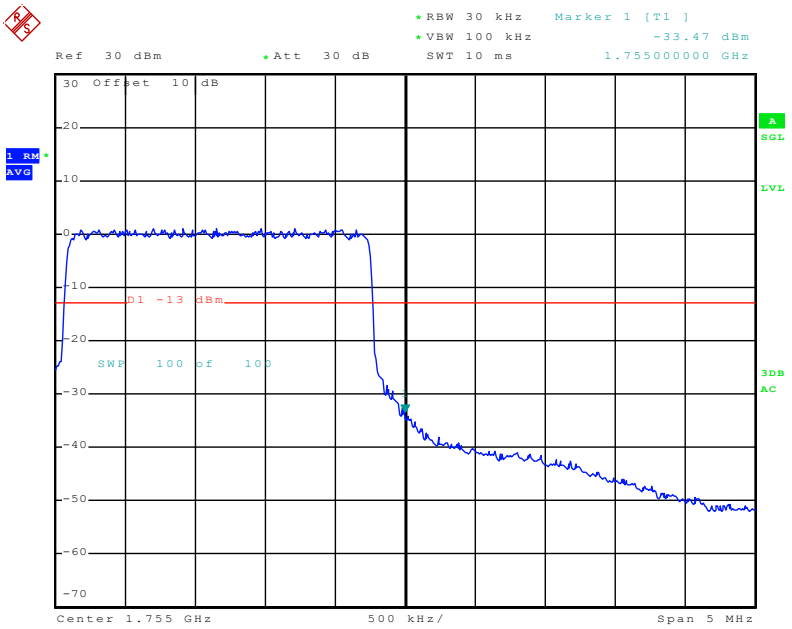
Highest channel

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



Date: 17.JAN.2015 15:23:13

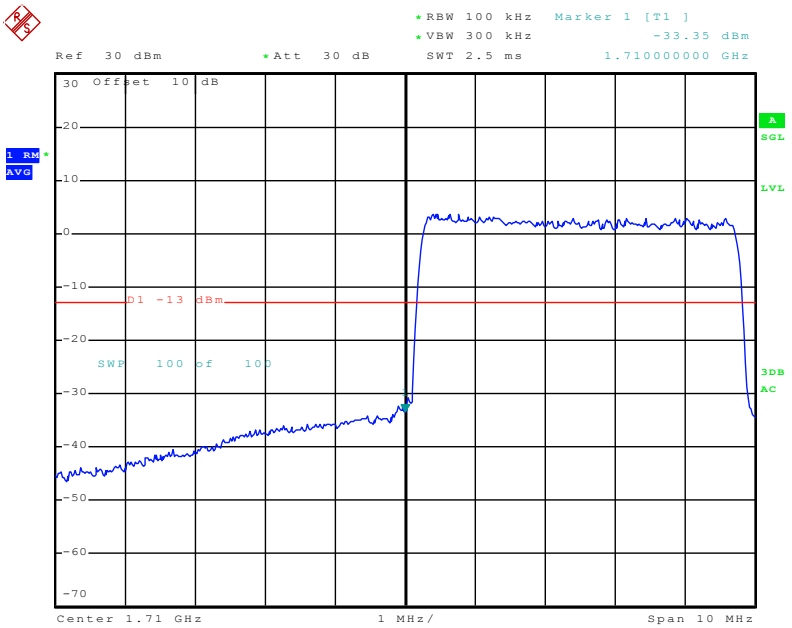
Lowest channel



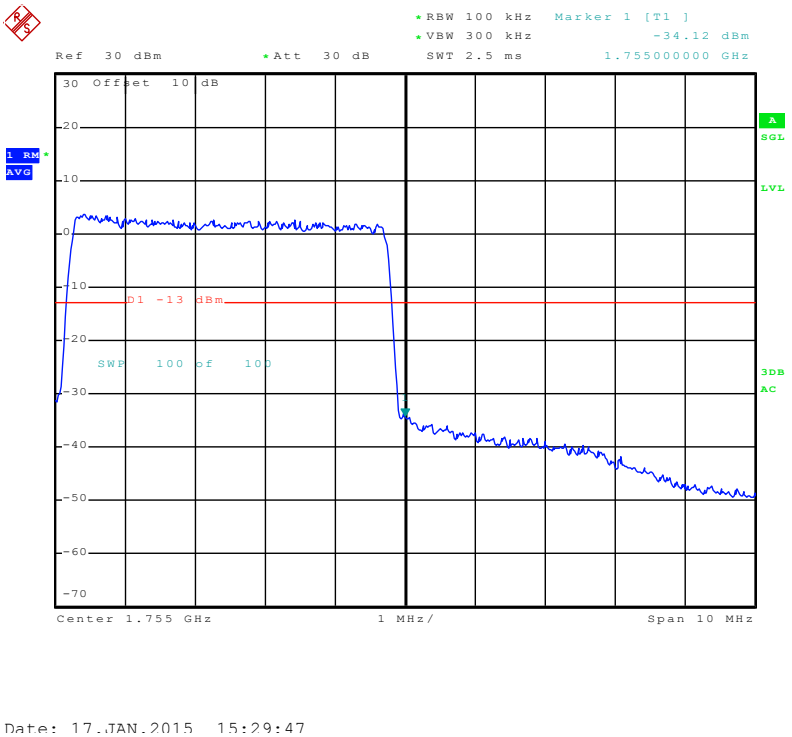
Date: 17.JAN.2015 15:29:16

Highest channel

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

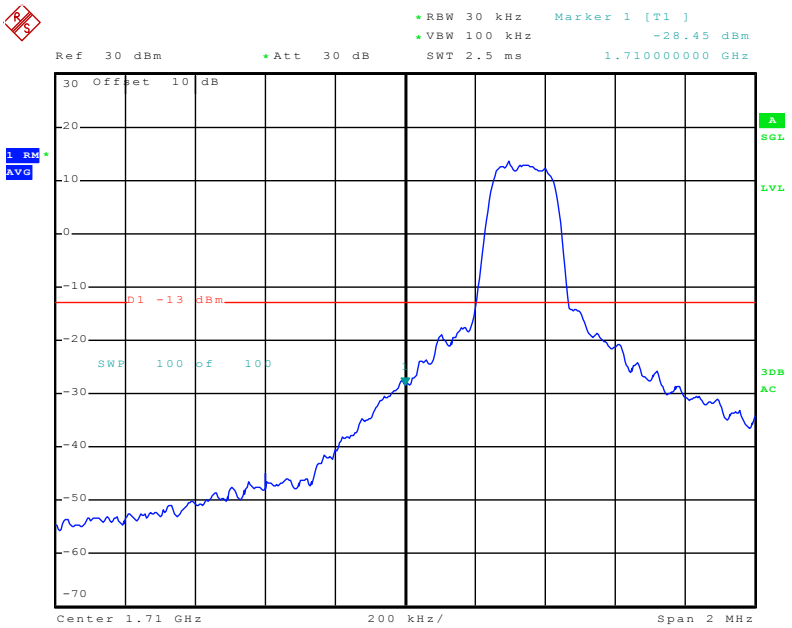


Lowest channel



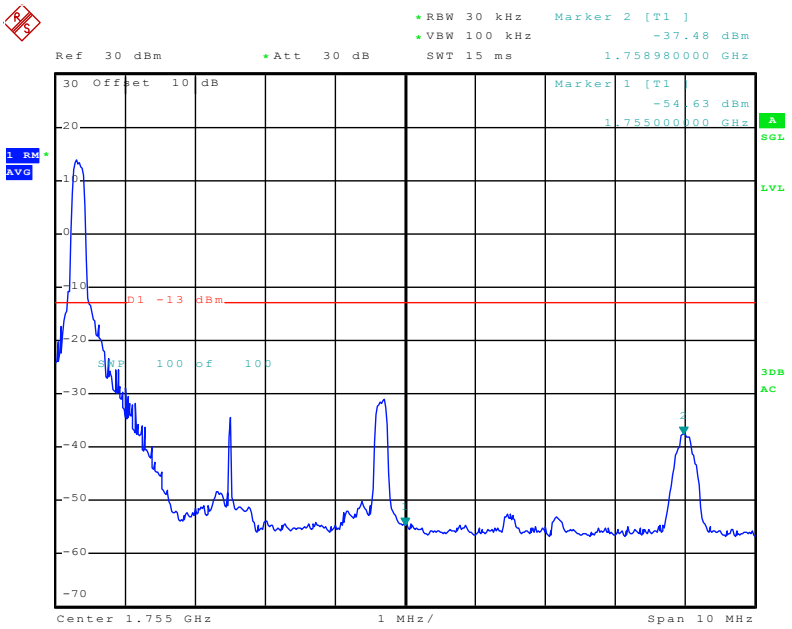
Highest channel

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



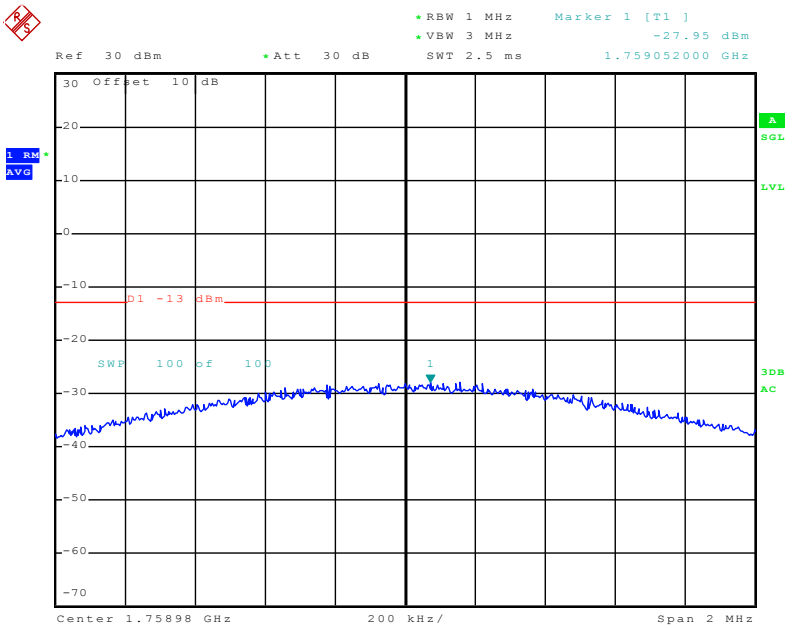
Date: 17.JAN.2015 15:16:16

Lowest channel



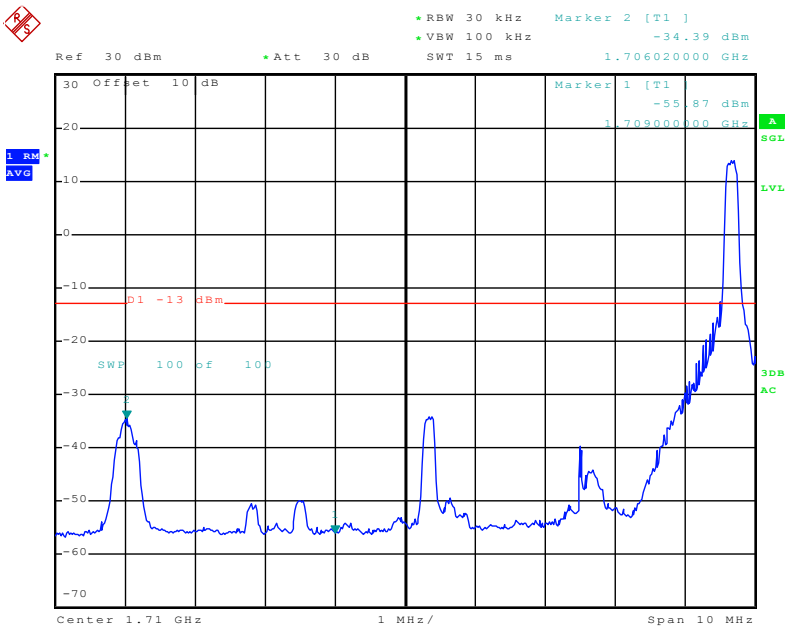
Date: 17.JAN.2015 15:24:33

Highest channel



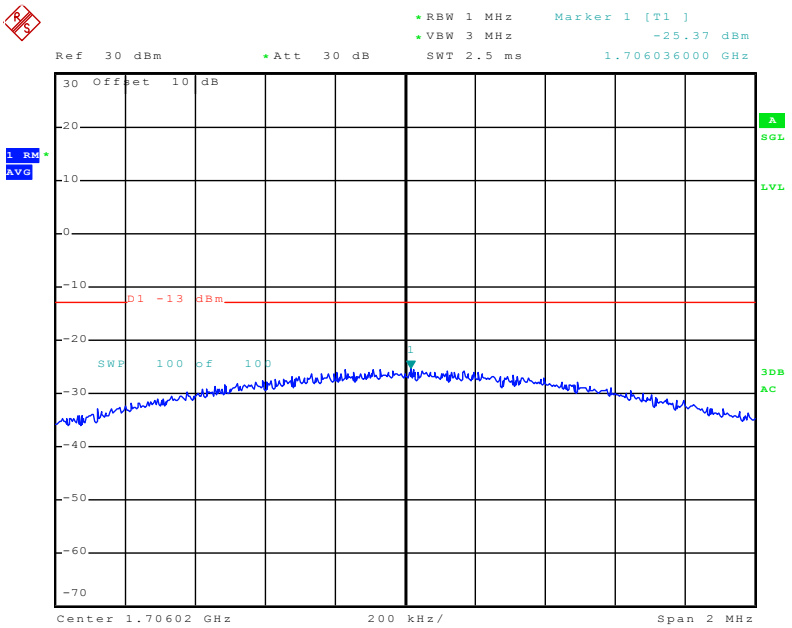
Date: 17.JAN.2015 15:24:53

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

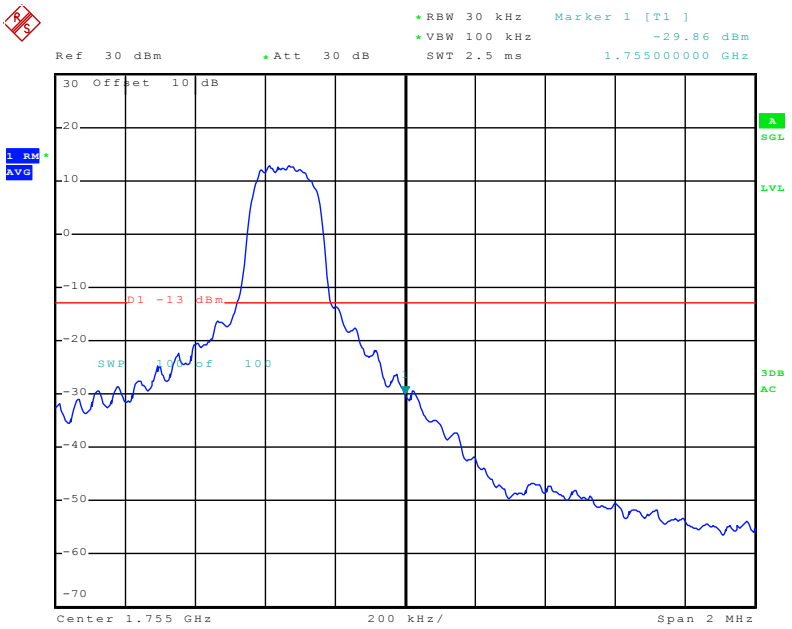


Date: 17.JAN.2015 15:18:12

Lowest channel



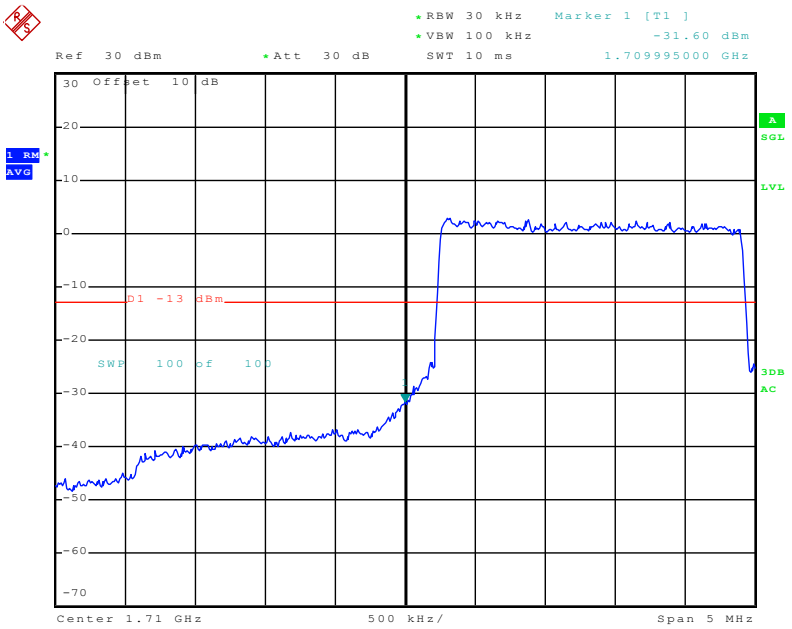
Date: 17.JAN.2015 15:18:35



Date: 17.JAN.2015 15:25:27

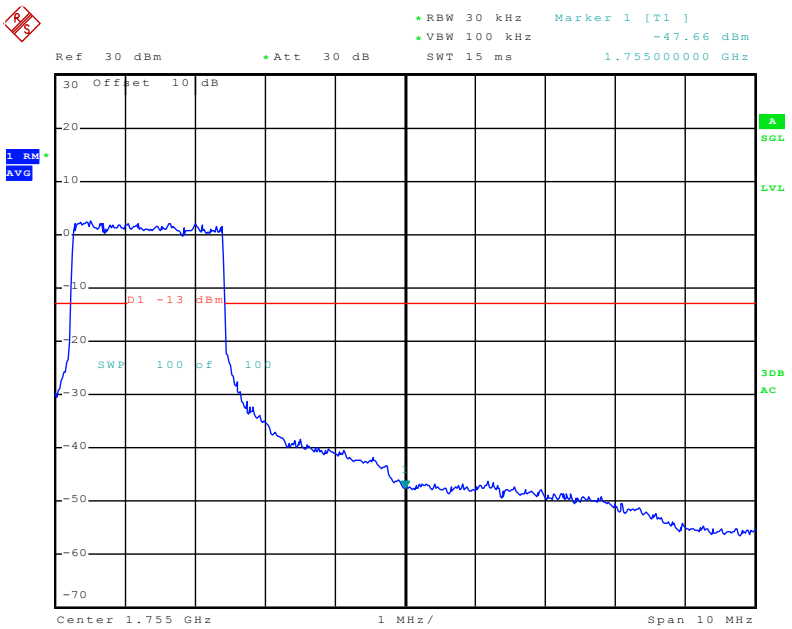
Highest channel

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



Date: 17.JAN.2015 15:19:49

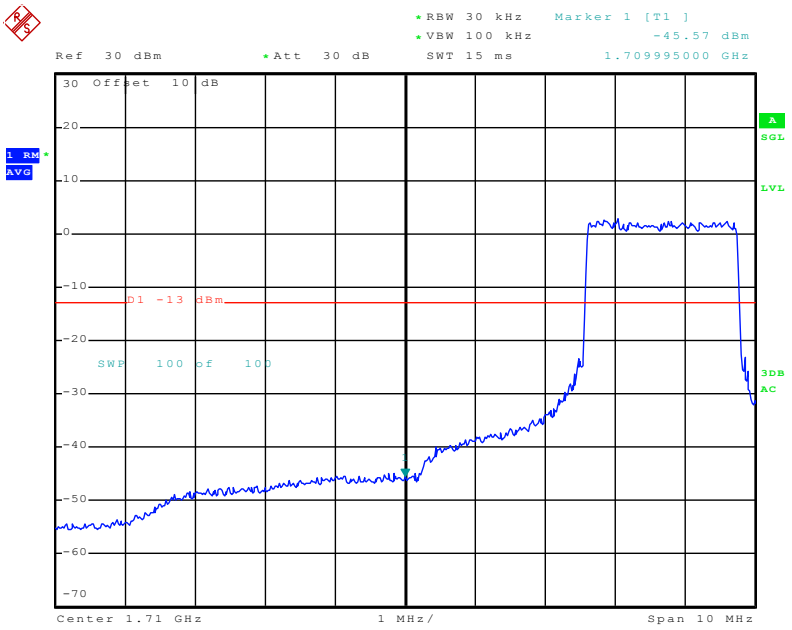
Lowest channel



Date: 17.JAN.2015 15:25:54

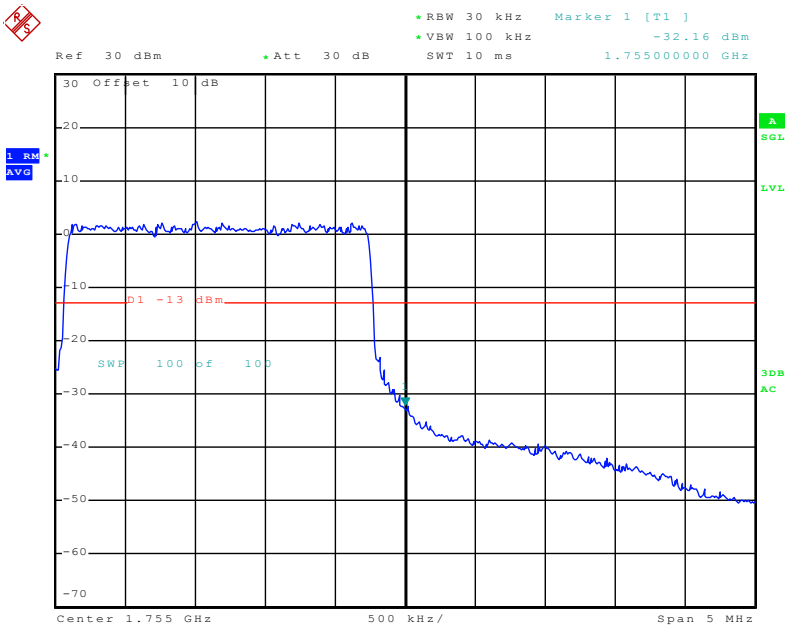
Highest channel

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



Date: 17.JAN.2015 15:20:11

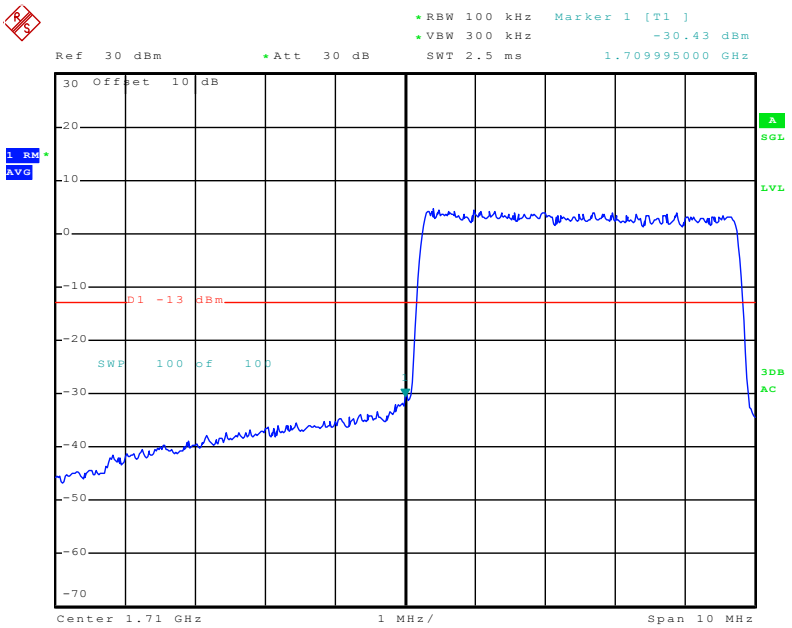
Lowest channel



Date: 17.JAN.2015 15:26:15

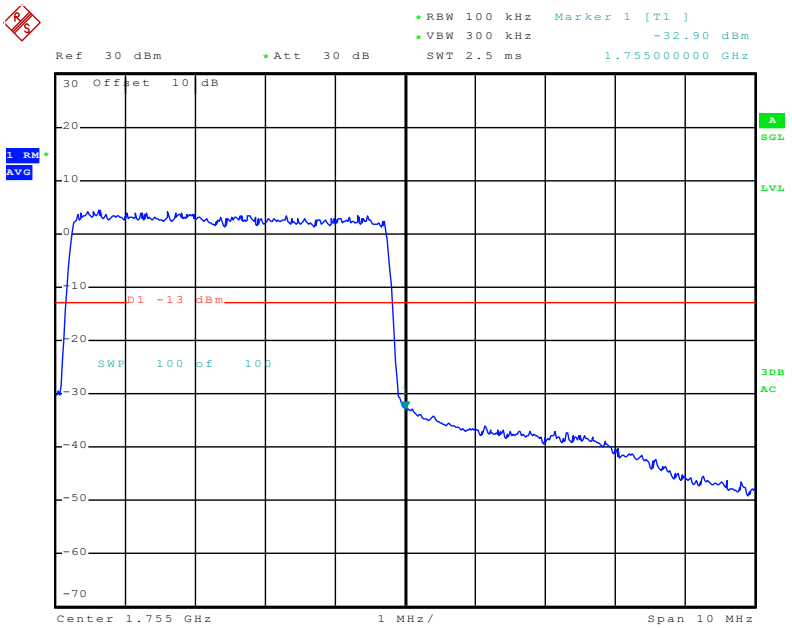
Highest channel

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



Date: 17.JAN.2015 15:20:46

Lowest channel

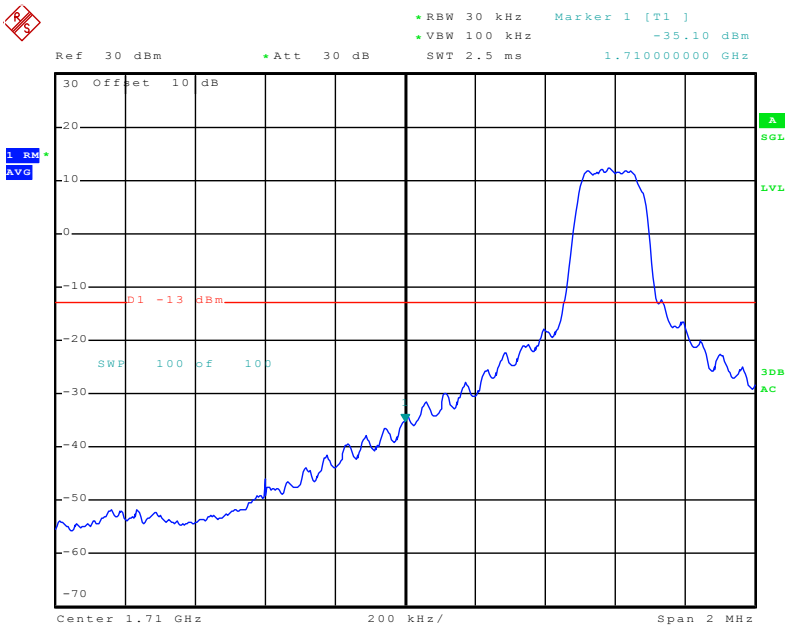


Date: 17.JAN.2015 15:26:38

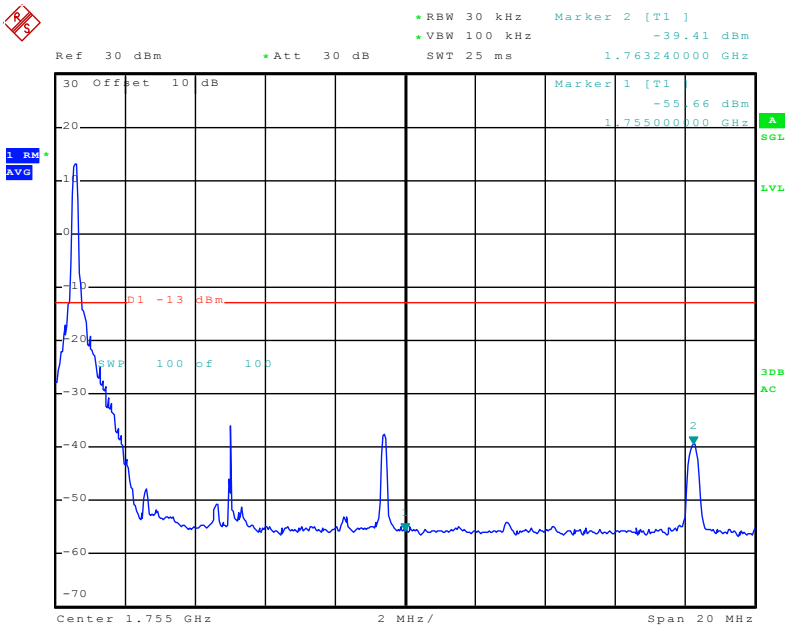
Highest channel

10MHz

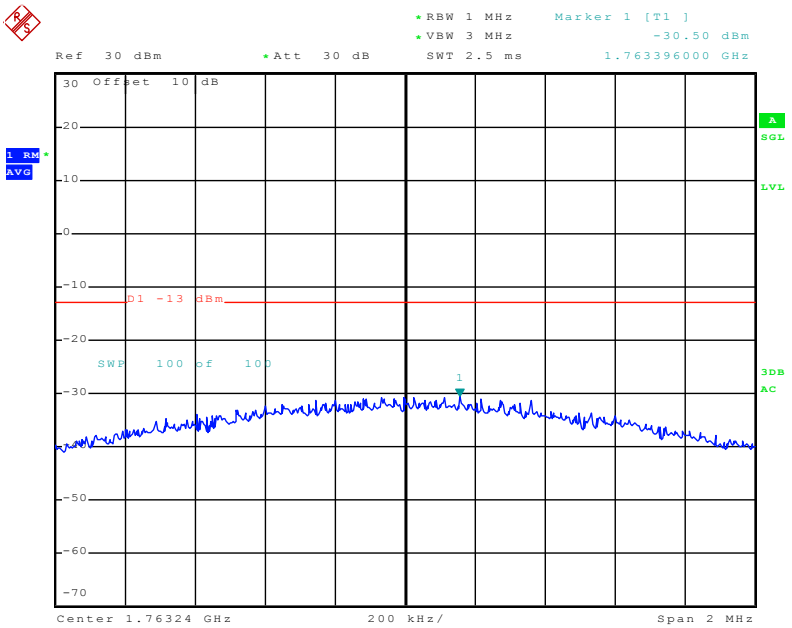
Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



Lowest channel

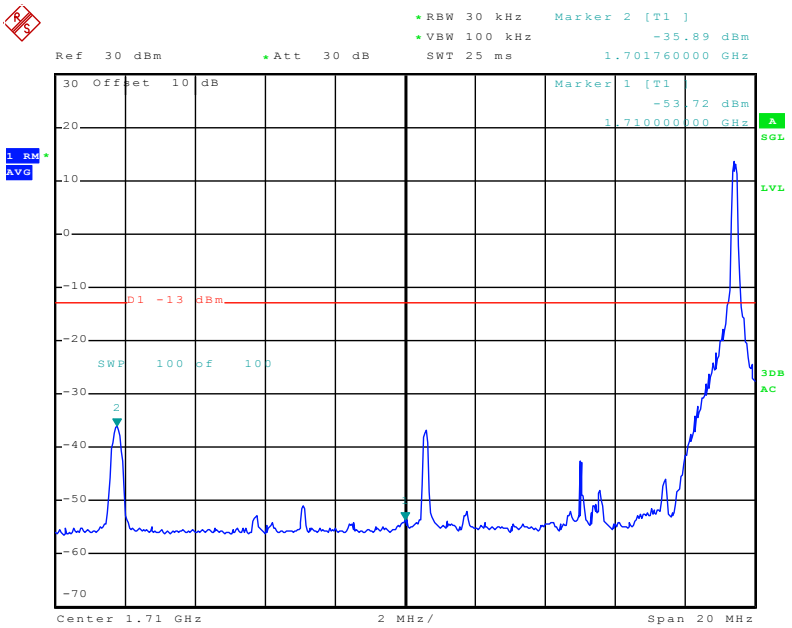


Highest channel



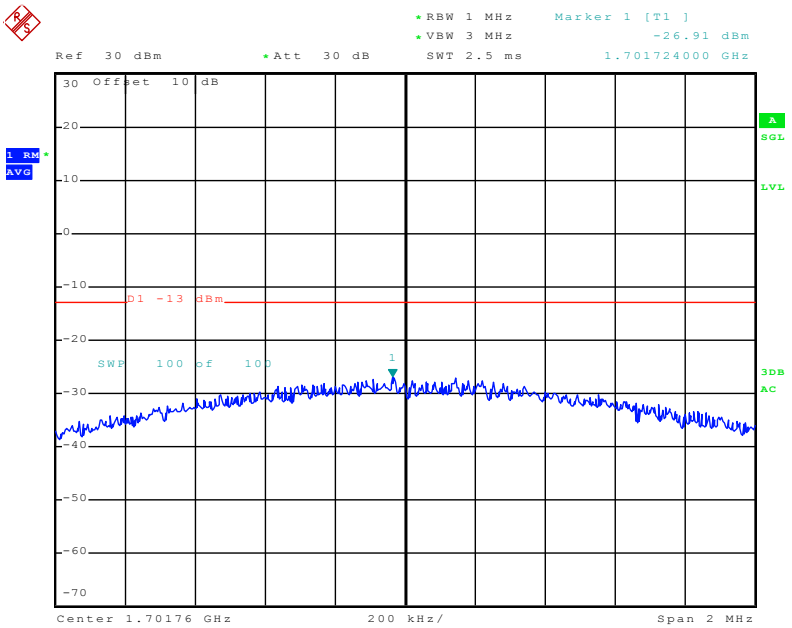
Date: 17.JAN.2015 15:41:29

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

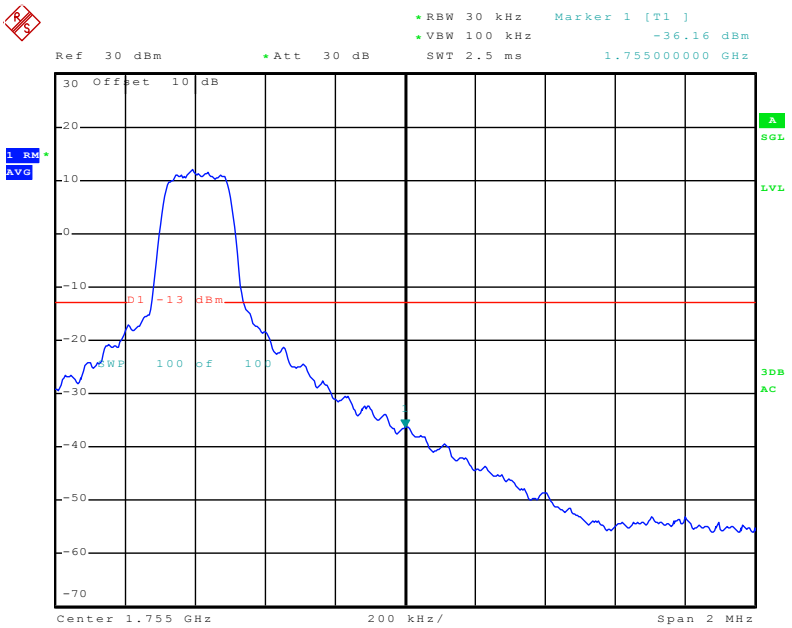


Date: 17.JAN.2015 15:34:37

Lowest channel



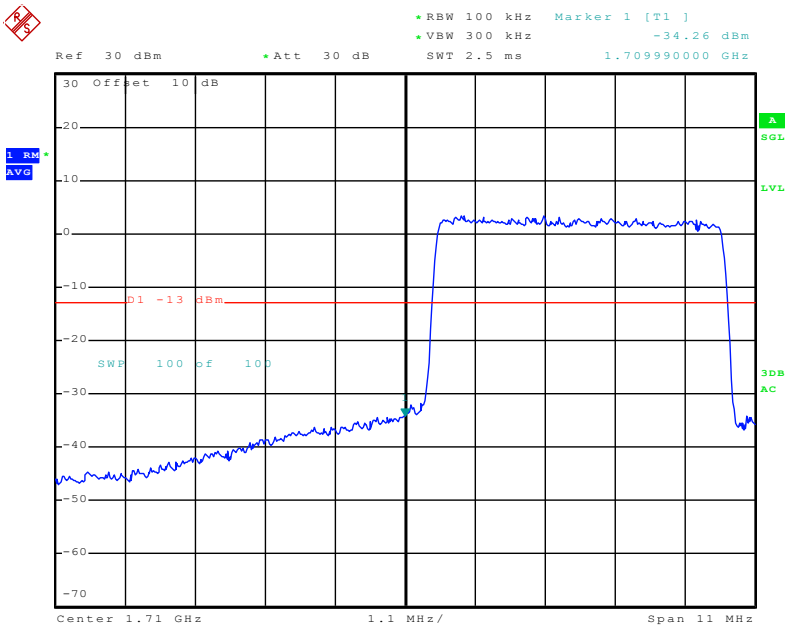
Date: 17.JAN.2015 15:35:01



Date: 17.JAN.2015 15:42:10

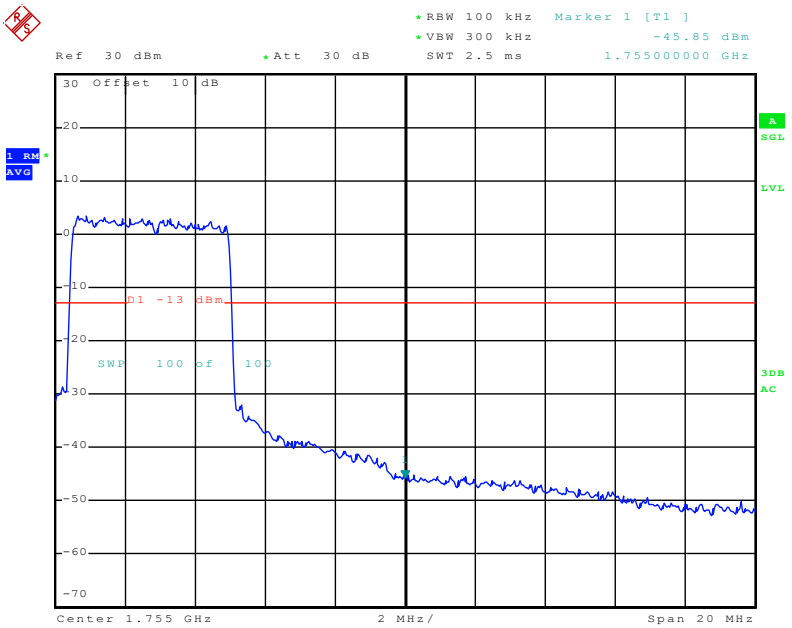
Highest channel

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



Date: 17.JAN.2015 15:35:45

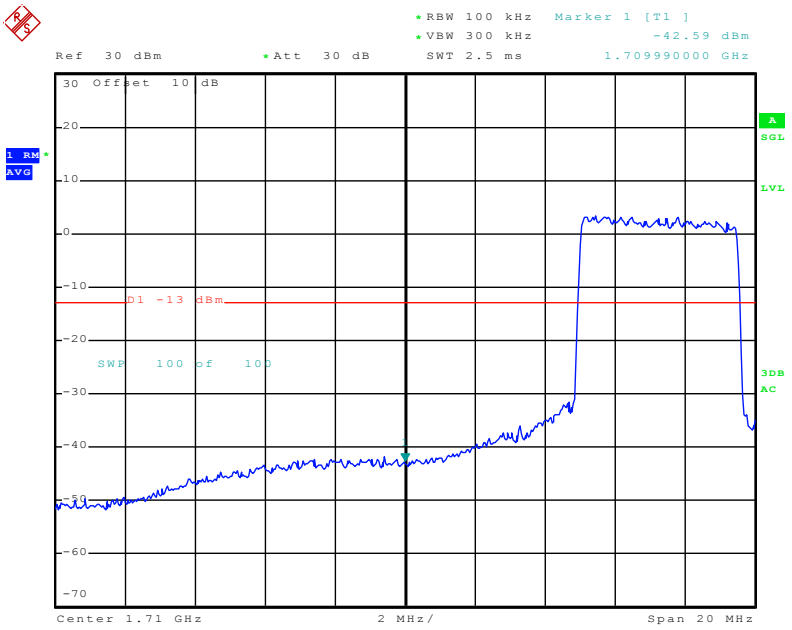
Lowest channel



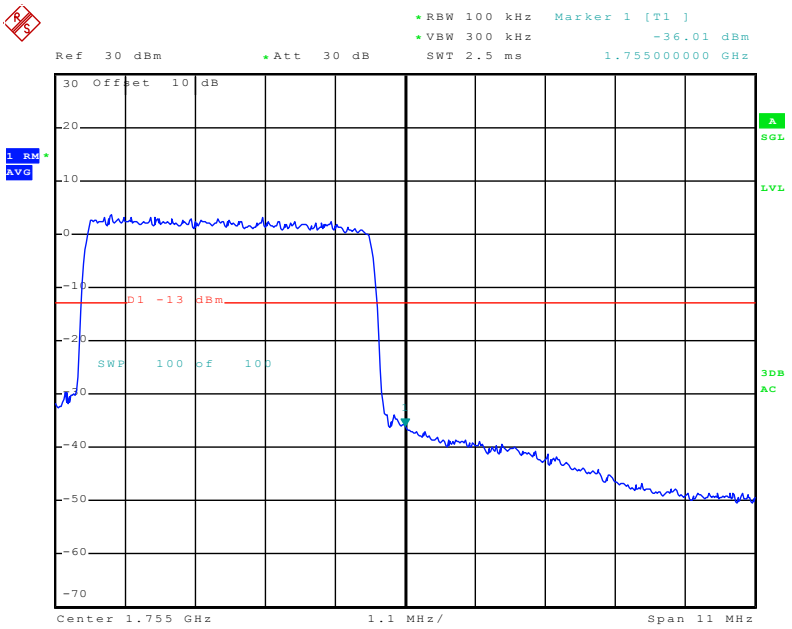
Date: 17.JAN.2015 15:44:03

Highest channel

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

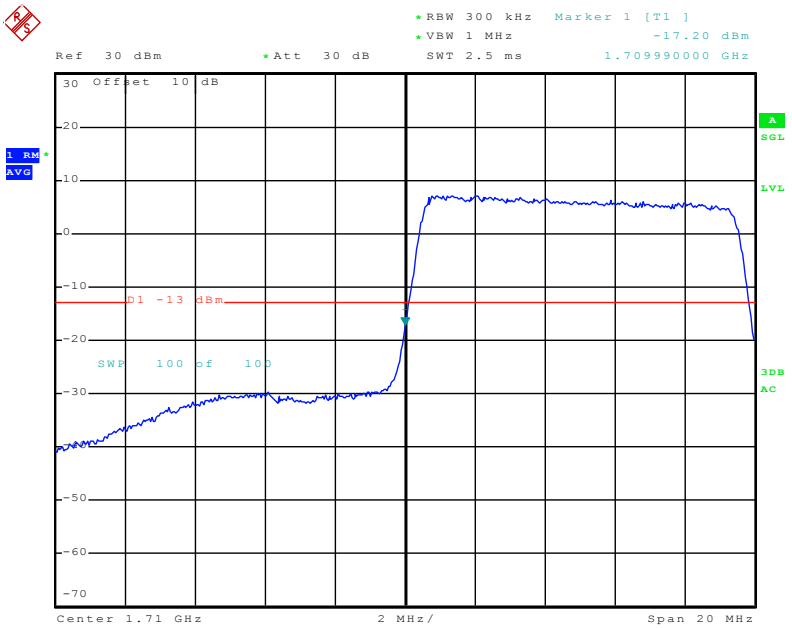


Lowest channel

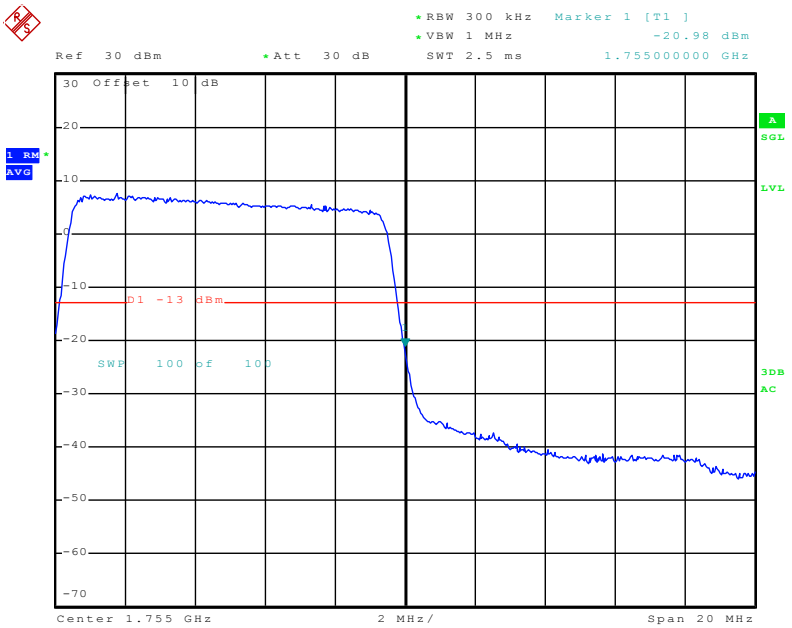


Highest channel

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

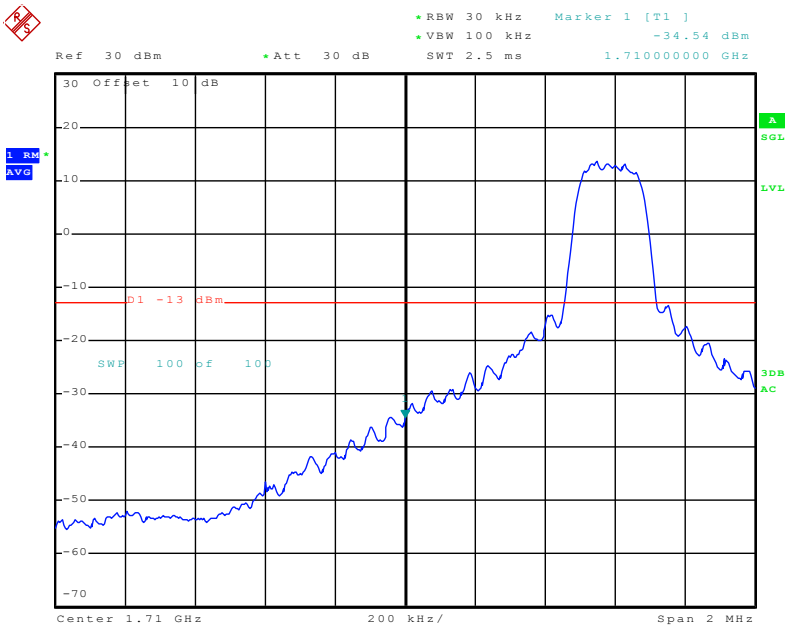


Lowest channel



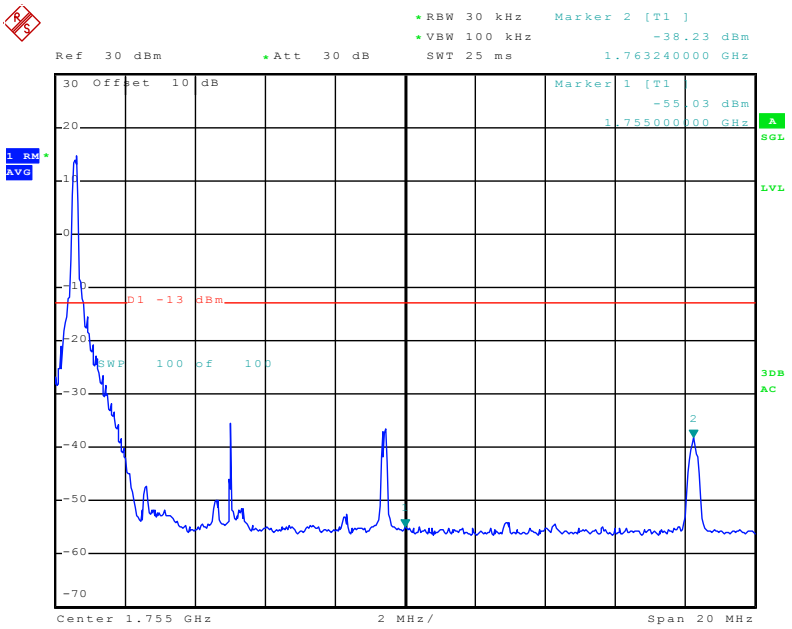
Highest channel

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



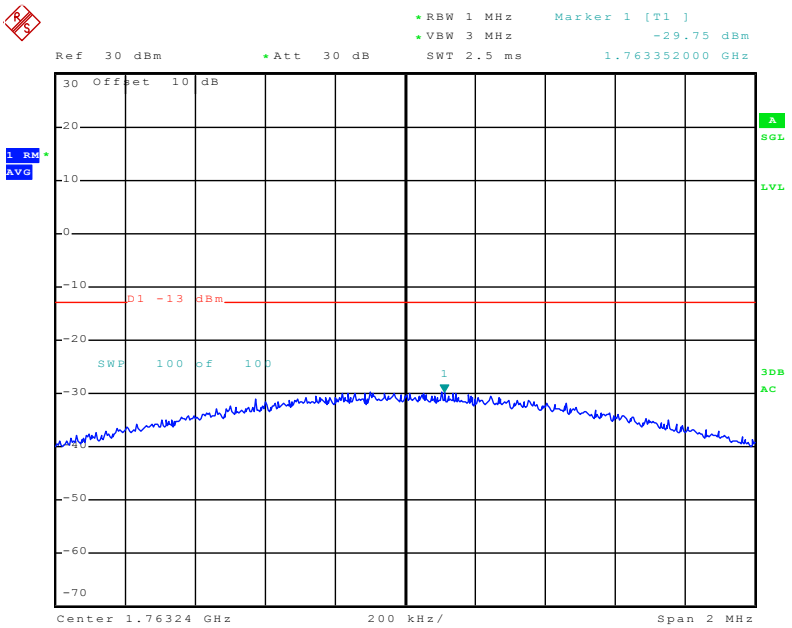
Date: 17.JAN.2015 15:31:00

Lowest channel



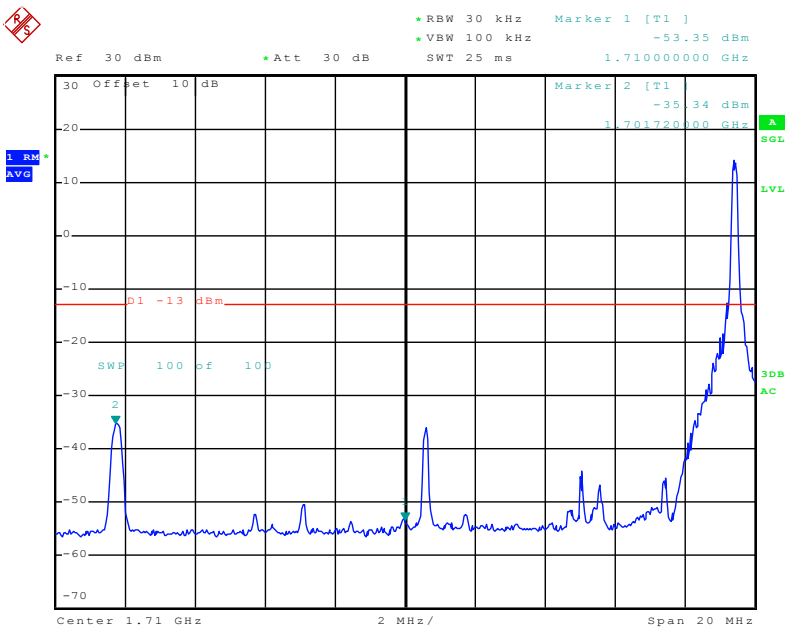
Date: 17.JAN.2015 15:37:13

Highest channel



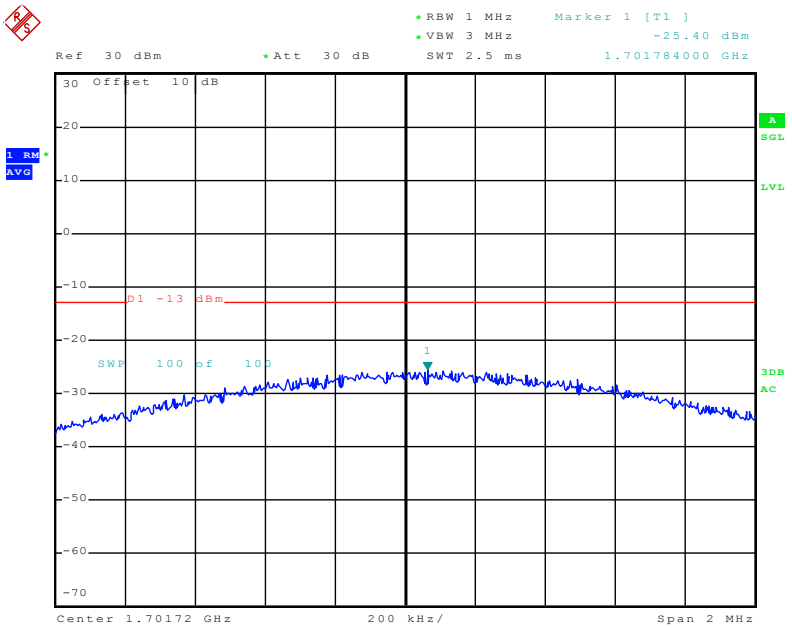
Date: 17.JAN.2015 15:37:36

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

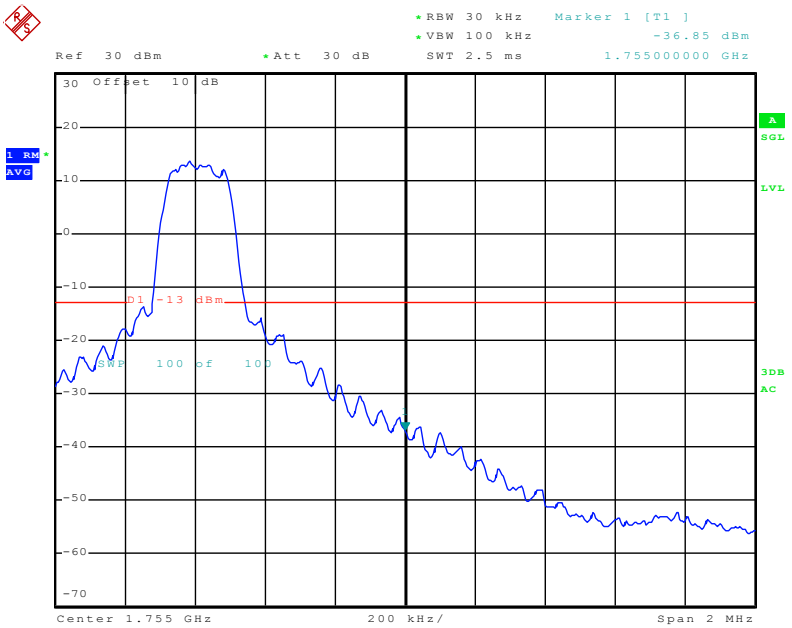


Date: 17.JAN.2015 15:31:33

Lowest channel



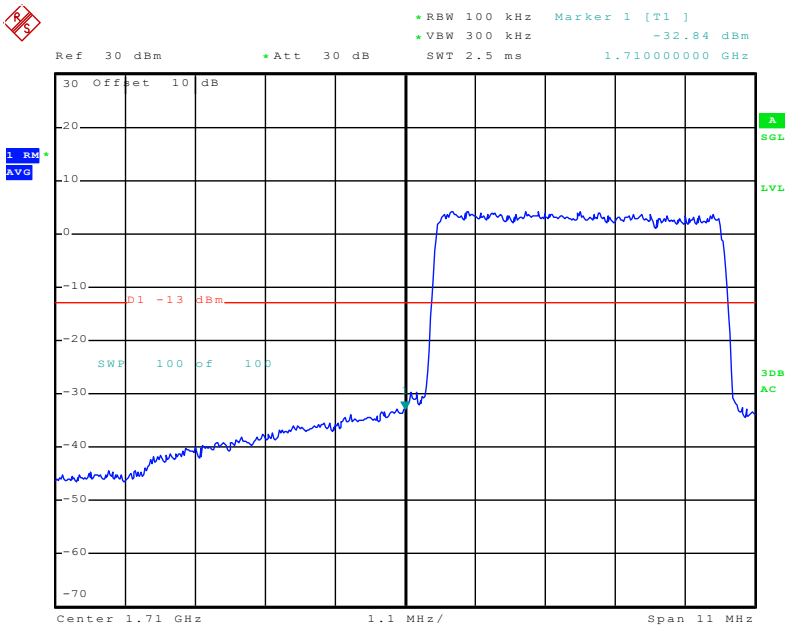
Date: 17.JAN.2015 15:31:54



Date: 17.JAN.2015 15:38:33

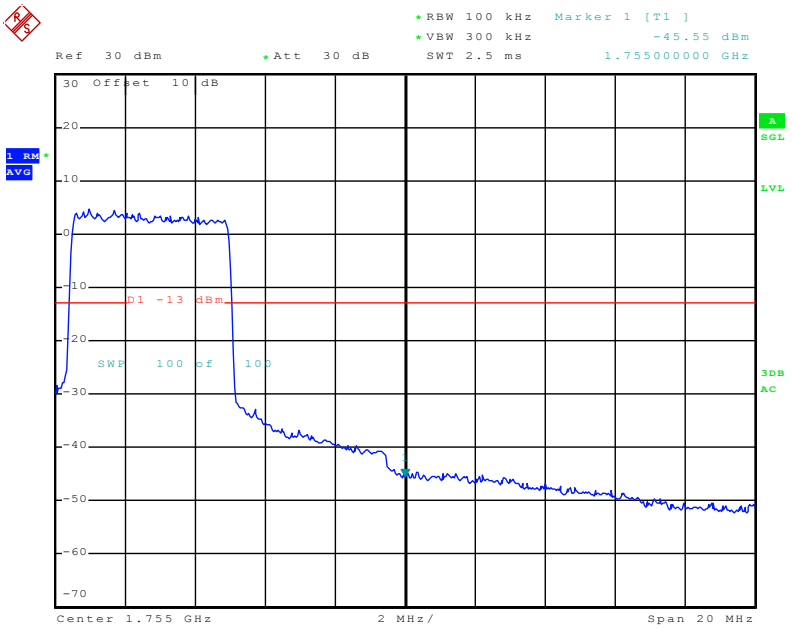
Highest channel

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



Date: 17.JAN.2015 15:32:35

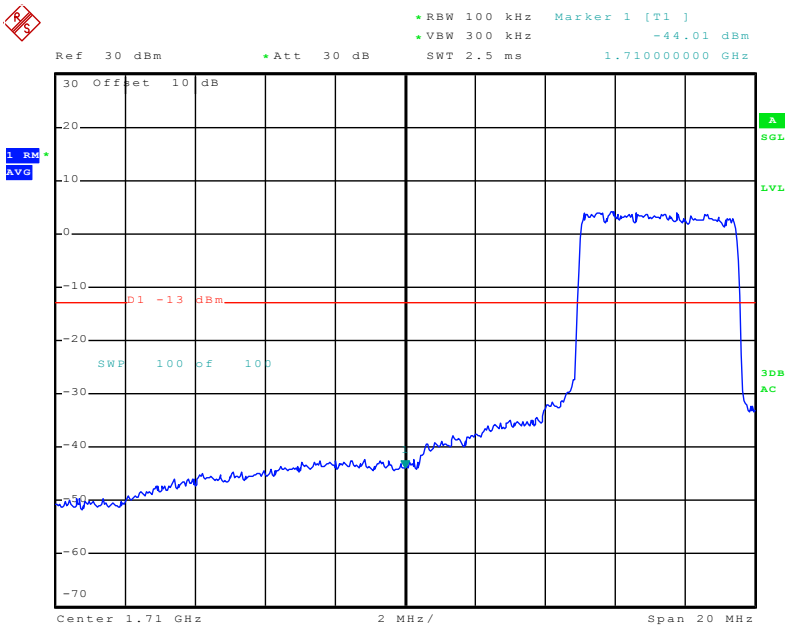
Lowest channel



Date: 17.JAN.2015 15:39:41

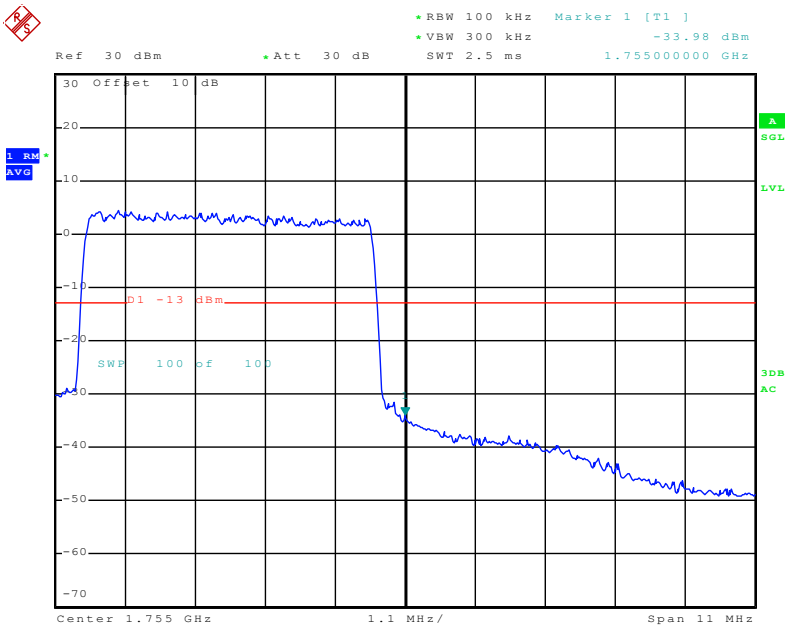
Highest channel

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



Date: 17.JAN.2015 15:32:56

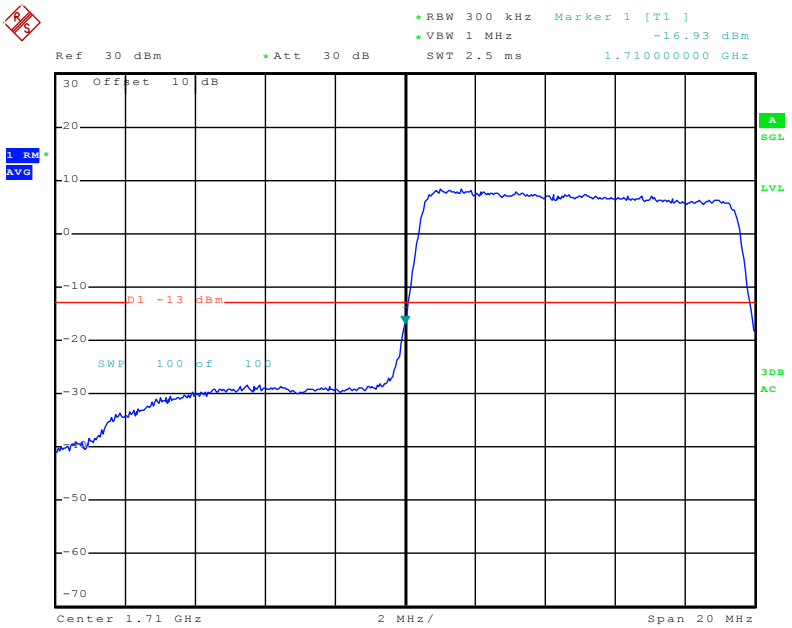
Lowest channel



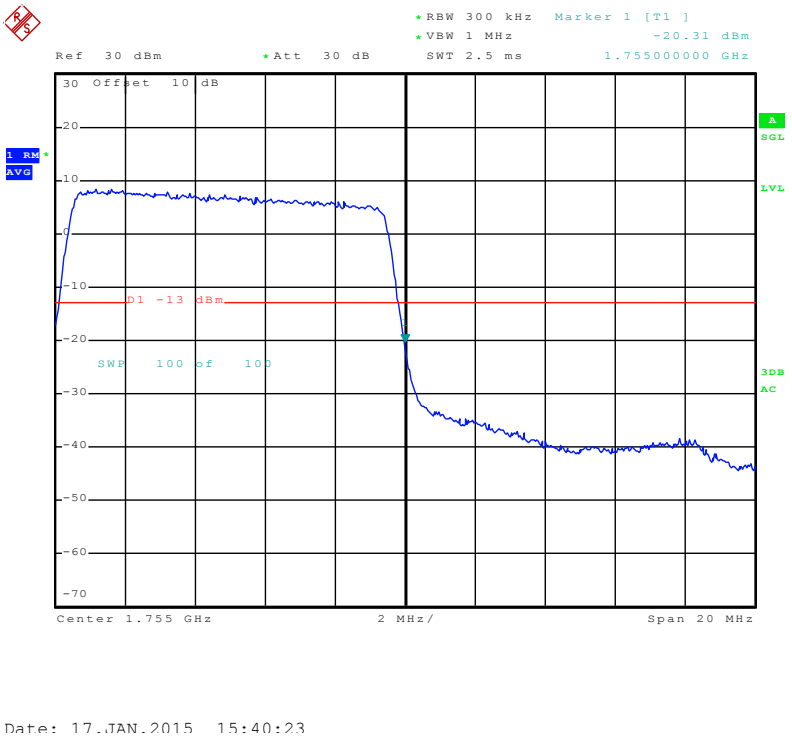
Date: 17.JAN.2015 15:39:56

Highest channel

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



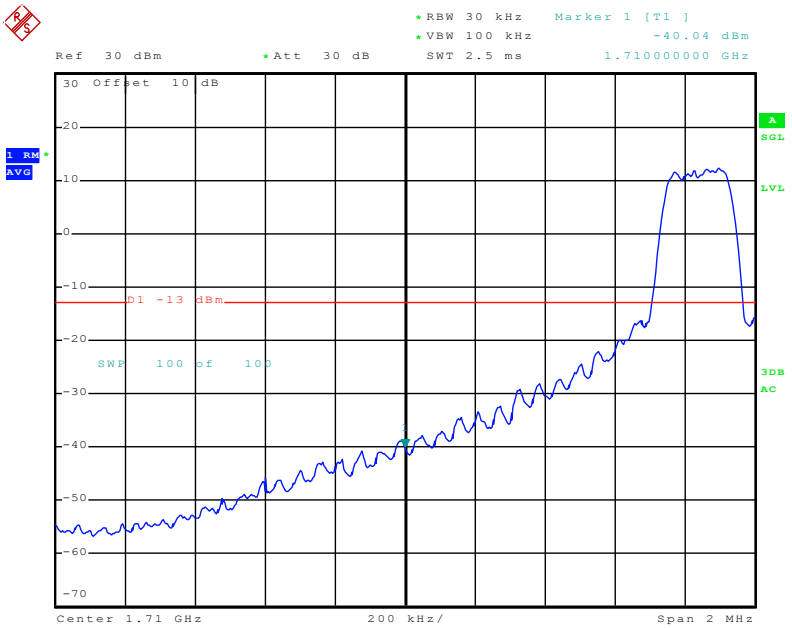
Lowest channel



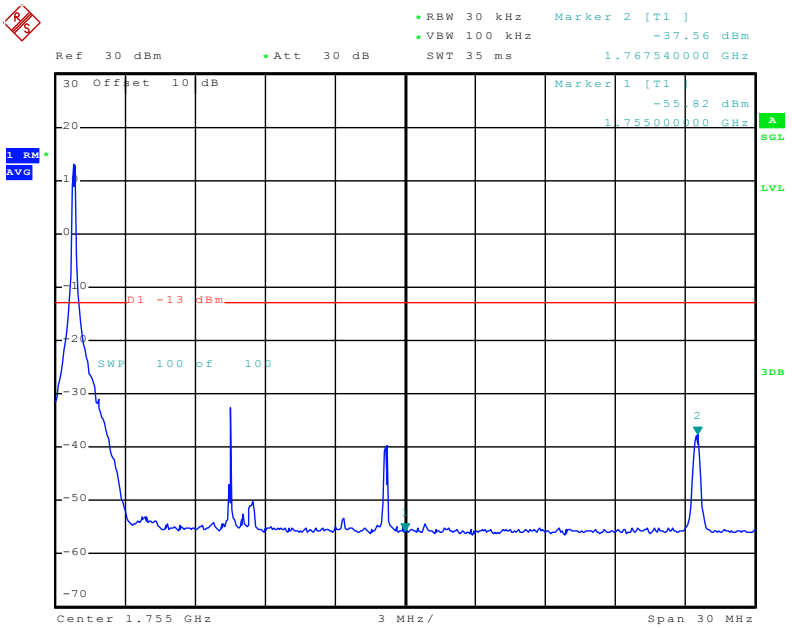
Highest channel

15MHz

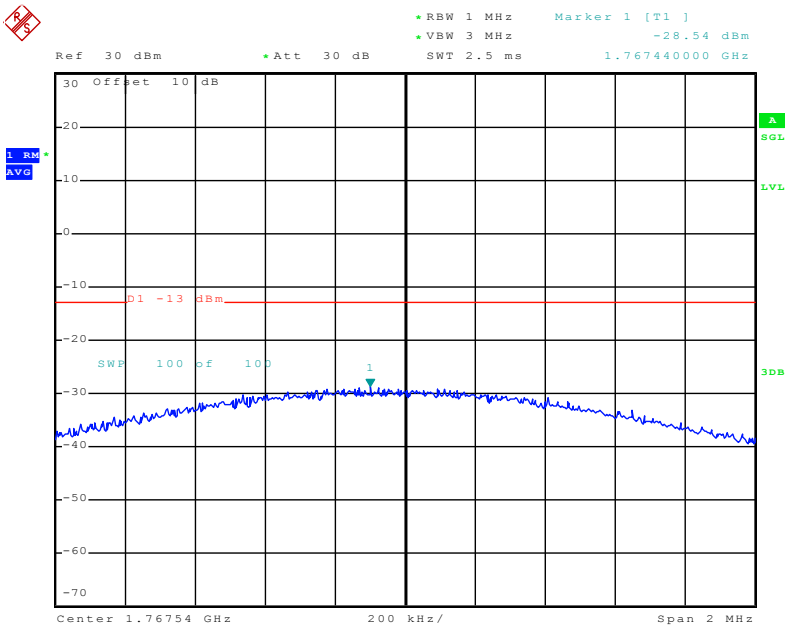
Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



Lowest channel

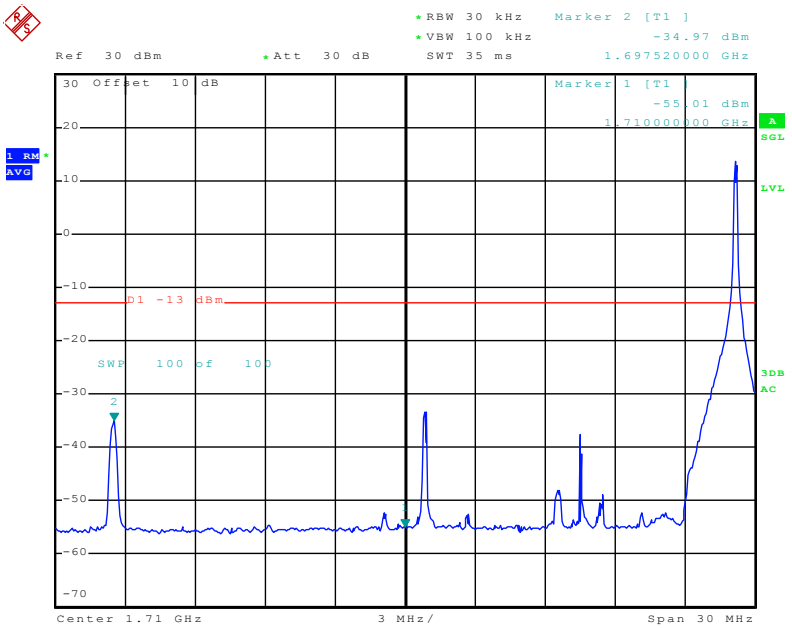


Highest channel



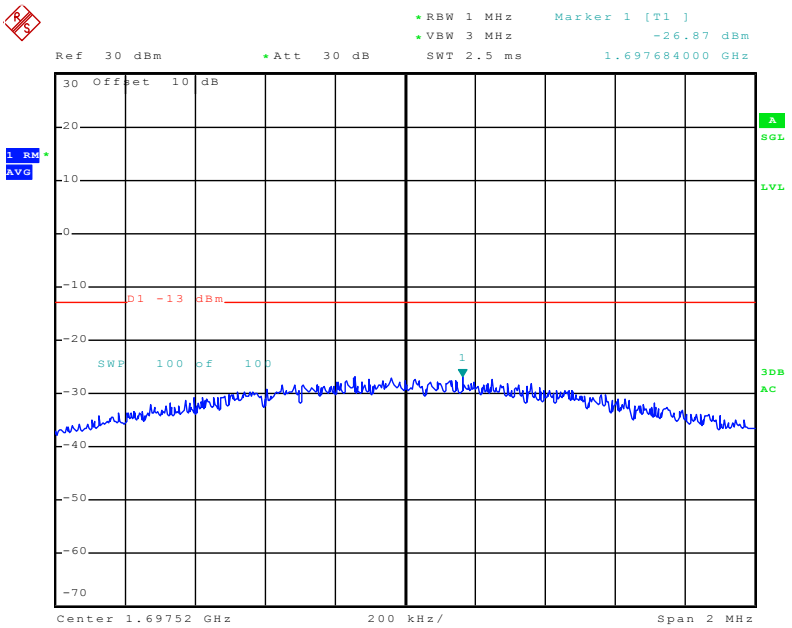
Date: 19.JAN.2015 07:56:05

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

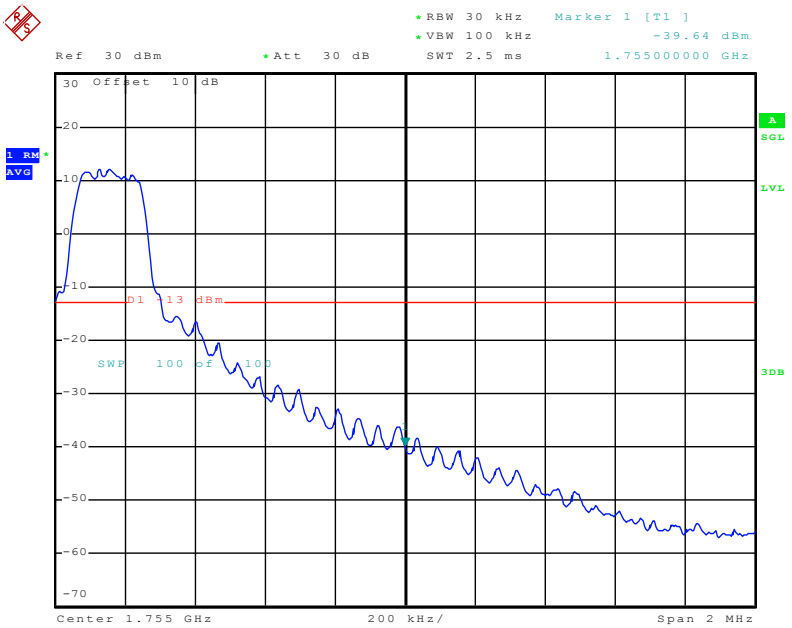


Date: 17.JAN.2015 15:58:54

Lowest channel



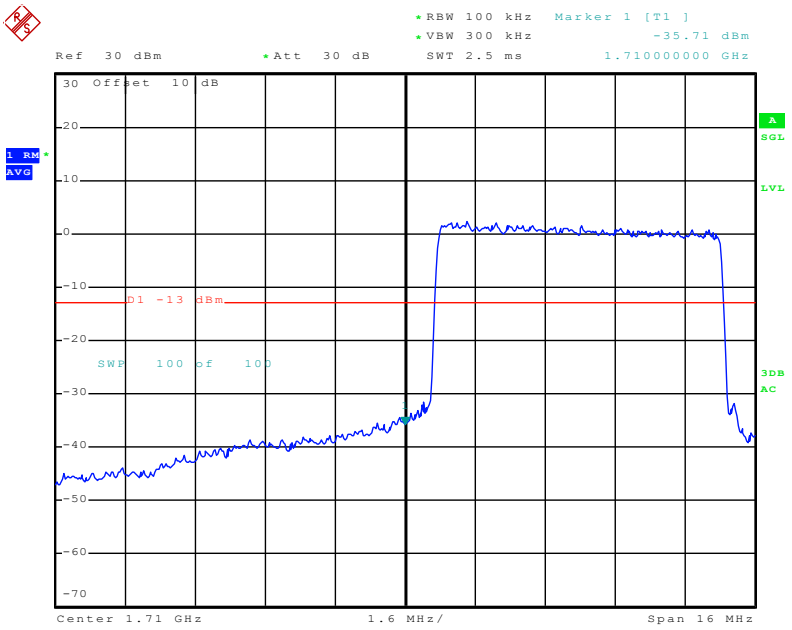
Date: 17.JAN.2015 15:59:15



Date: 19.JAN.2015 07:57:27

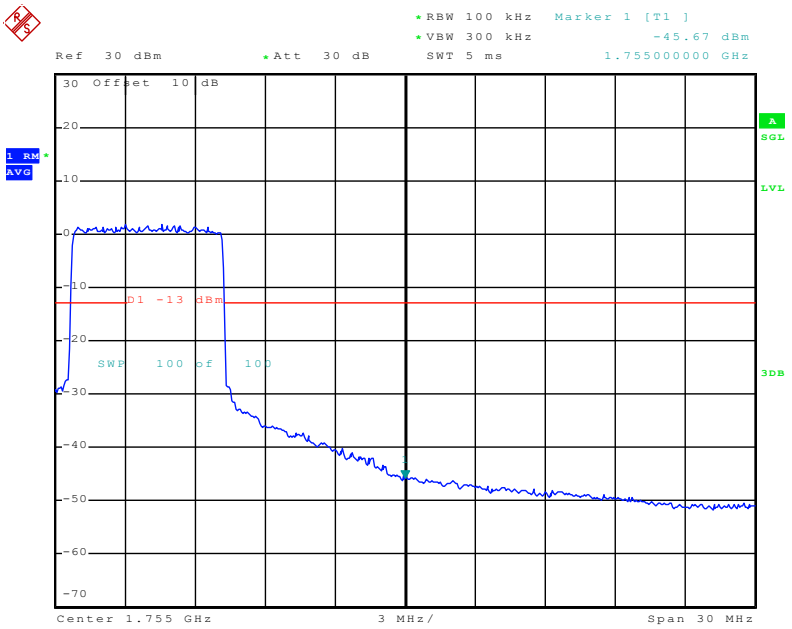
Highest channel

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



Date: 17.JAN.2015 15:59:55

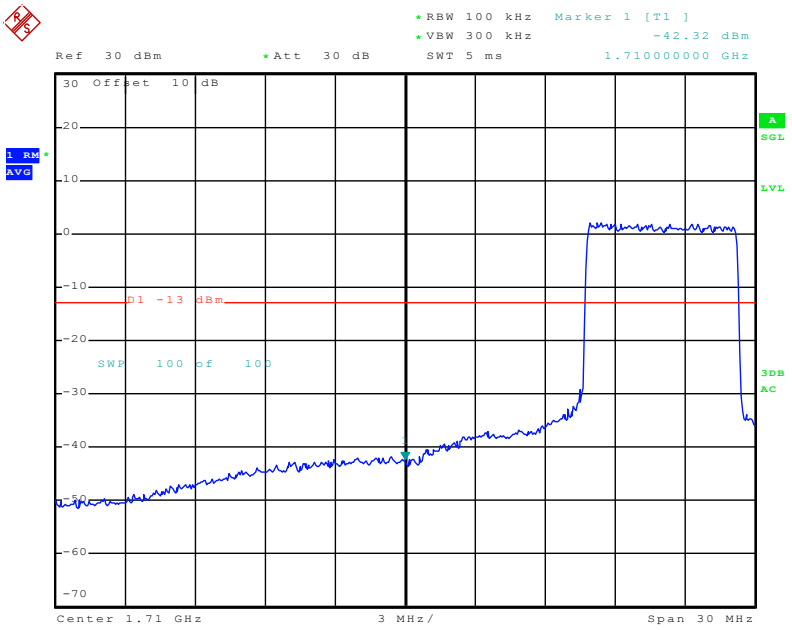
Lowest channel



Date: 19.JAN.2015 07:59:40

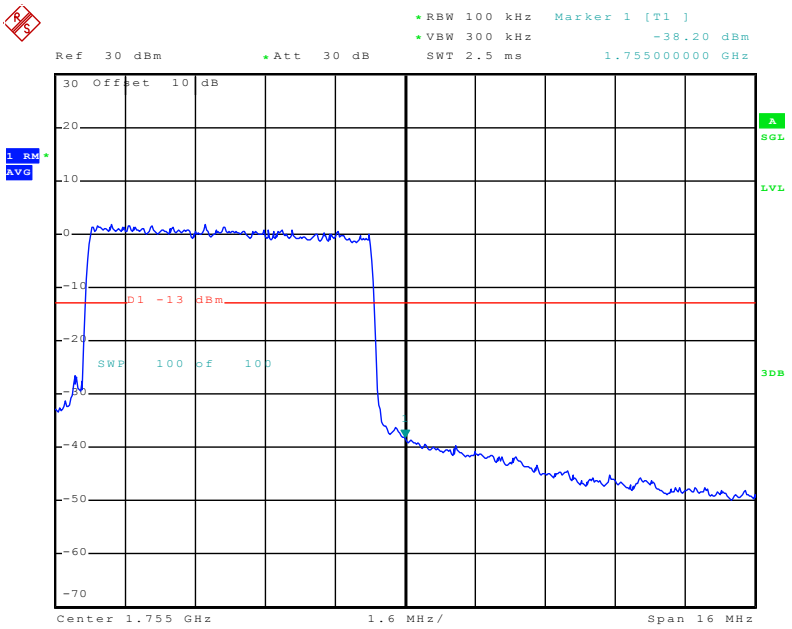
Highest channel

Test Mode: LTE band 4(16QAM RB Size 36 & RB Offset 35)



Date: 17.JAN.2015 16:00:11

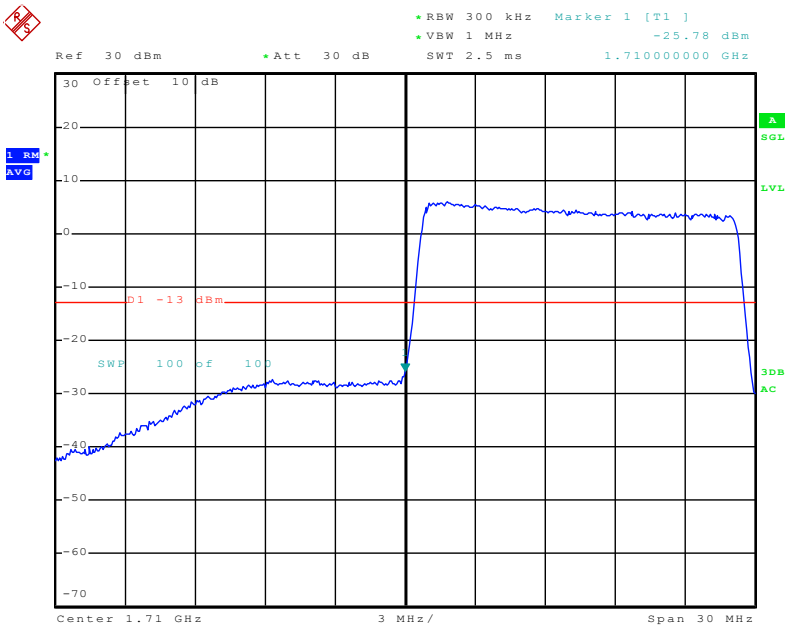
Lowest channel



Date: 19.JAN.2015 07:59:59

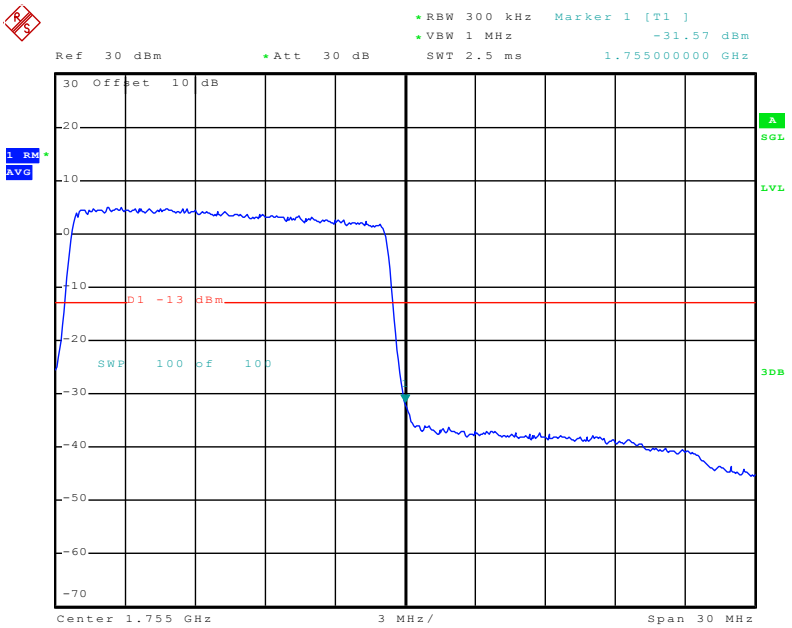
Highest channel

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



Date: 17.JAN.2015 16:00:33

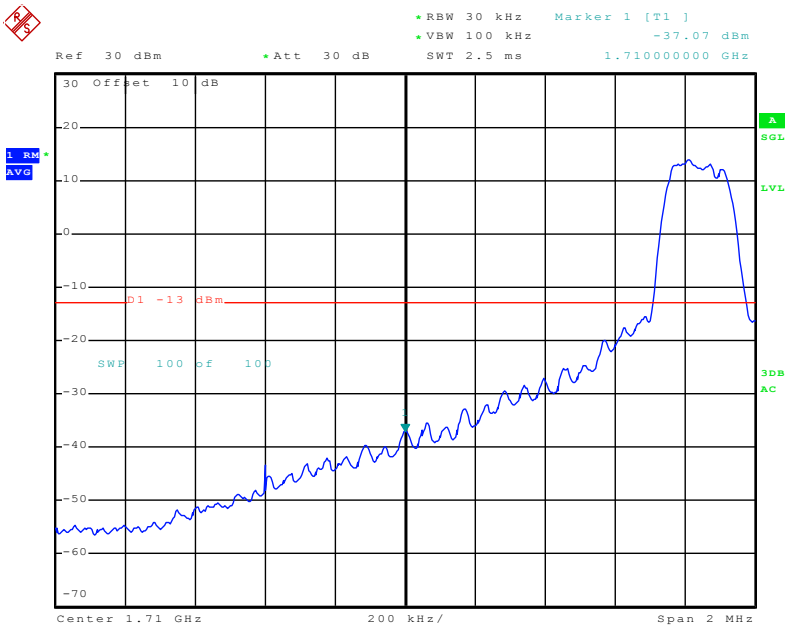
Lowest channel



Date: 19.JAN.2015 08:00:50

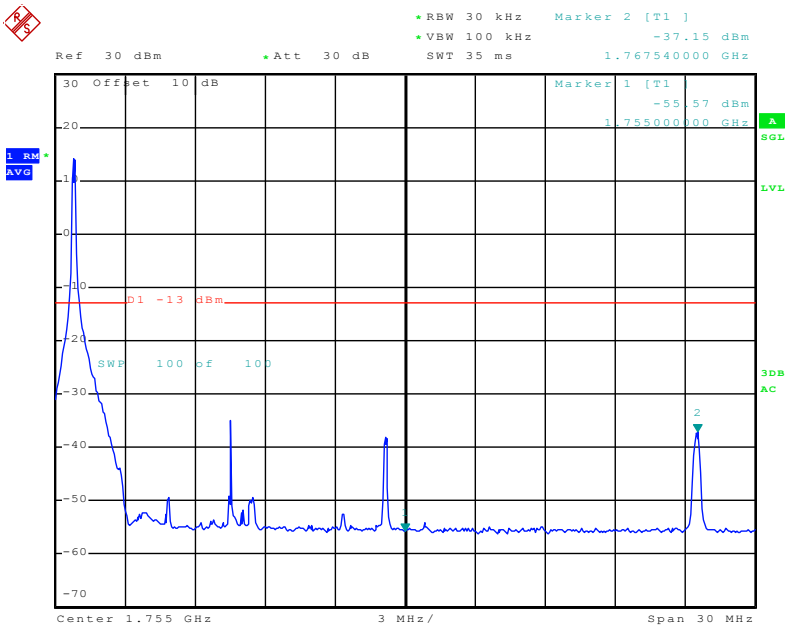
Highest channel

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



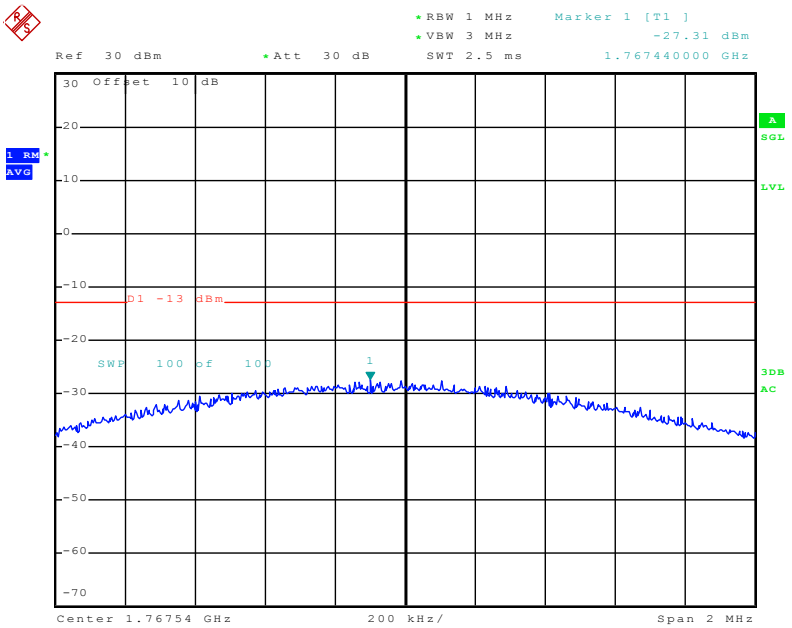
Date: 17.JAN.2015 15:47:09

Lowest channel



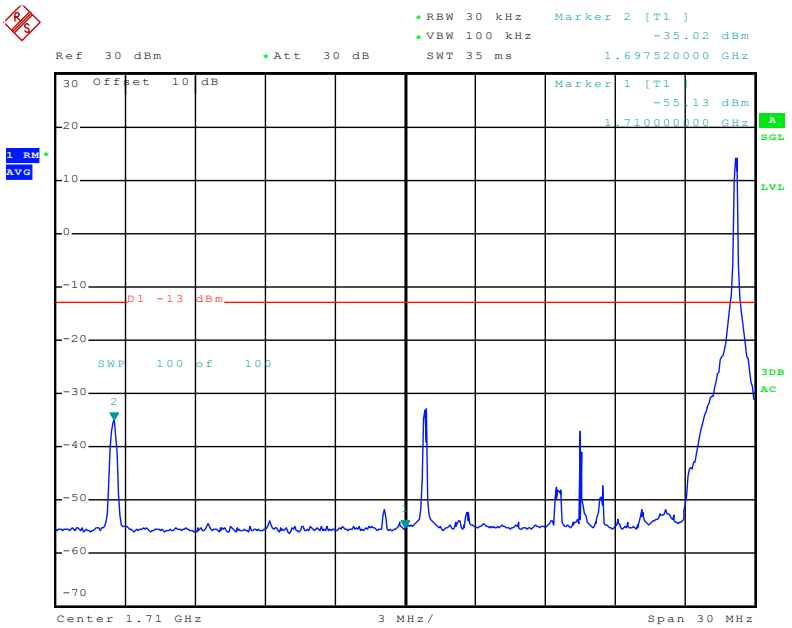
Date: 17.JAN.2015 16:01:15

Highest channel



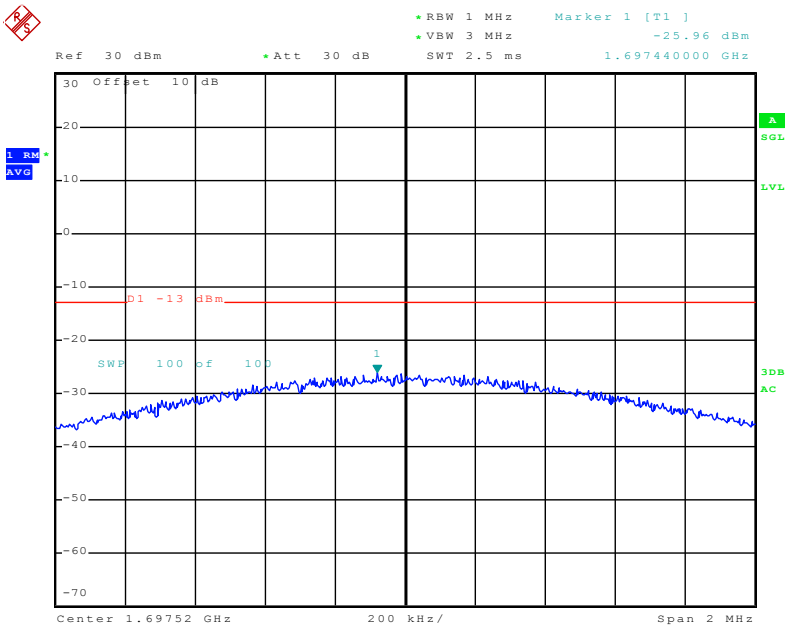
Date: 17.JAN.2015 16:01:42

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

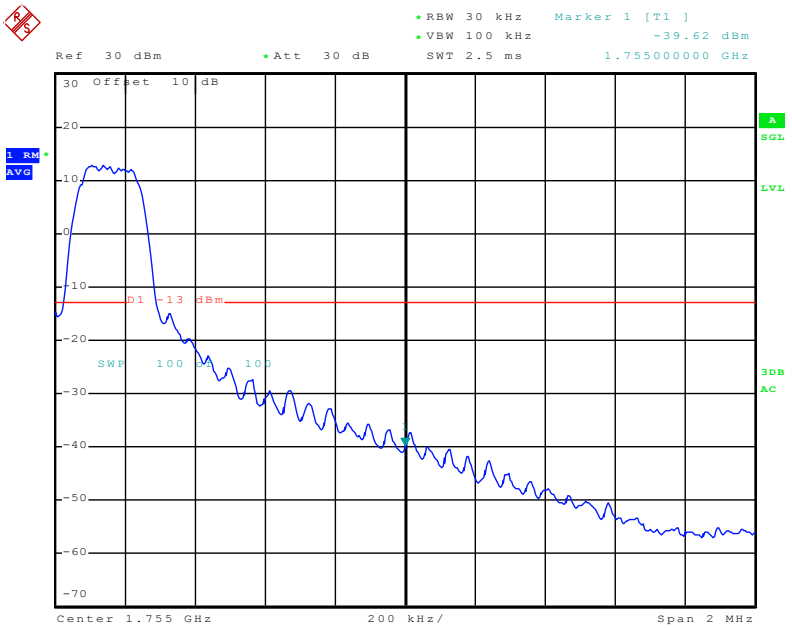


Date: 17.JAN.2015 15:56:31

Lowest channel



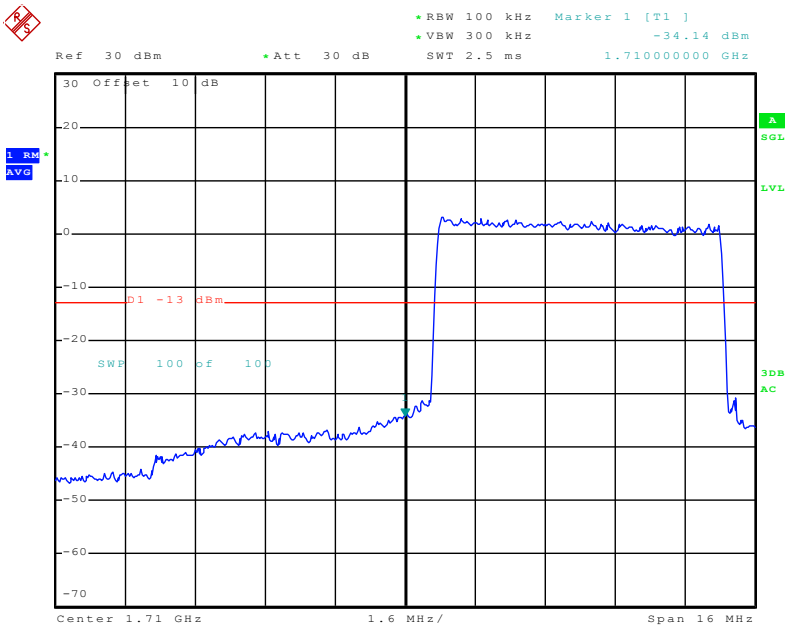
Date: 17.JAN.2015 15:57:00



Date: 17.JAN.2015 16:02:28

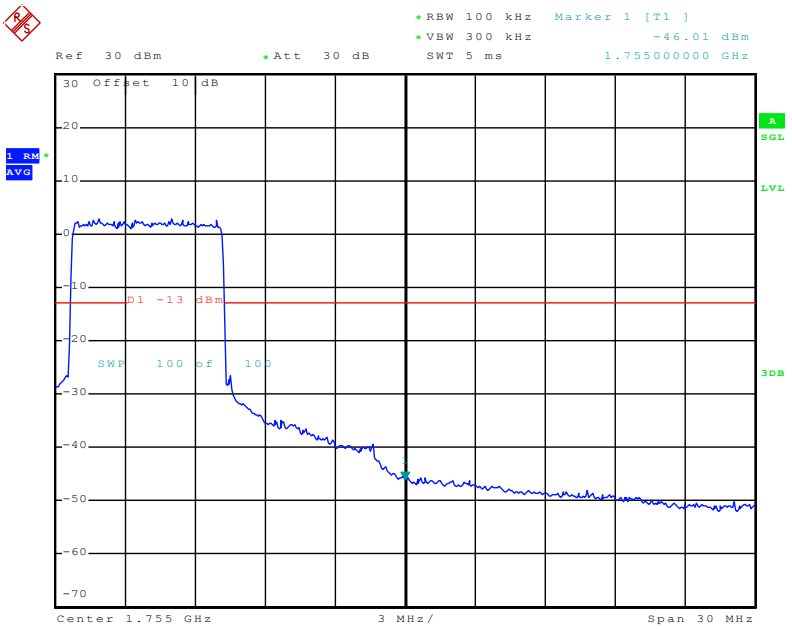
Highest channel

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



Date: 17.JAN.2015 15:55:01

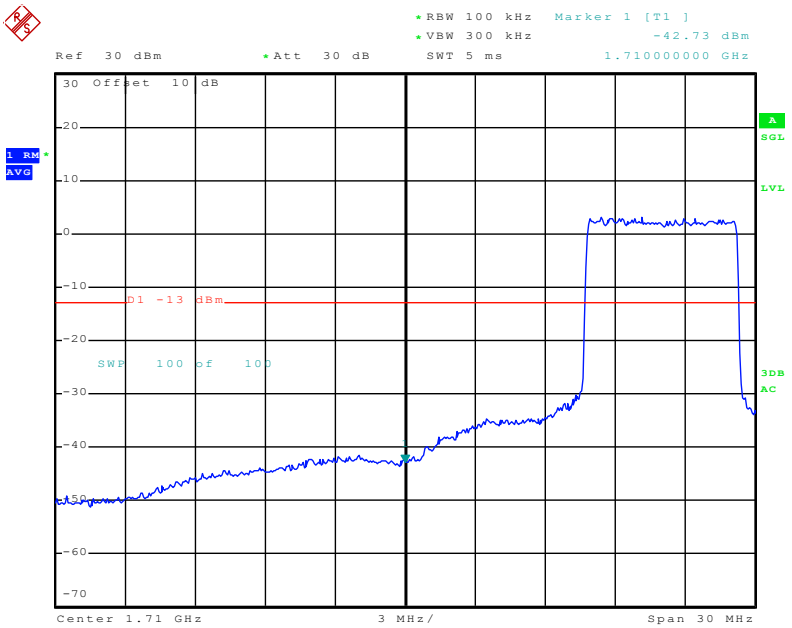
Lowest channel



Date: 19.JAN.2015 07:51:58

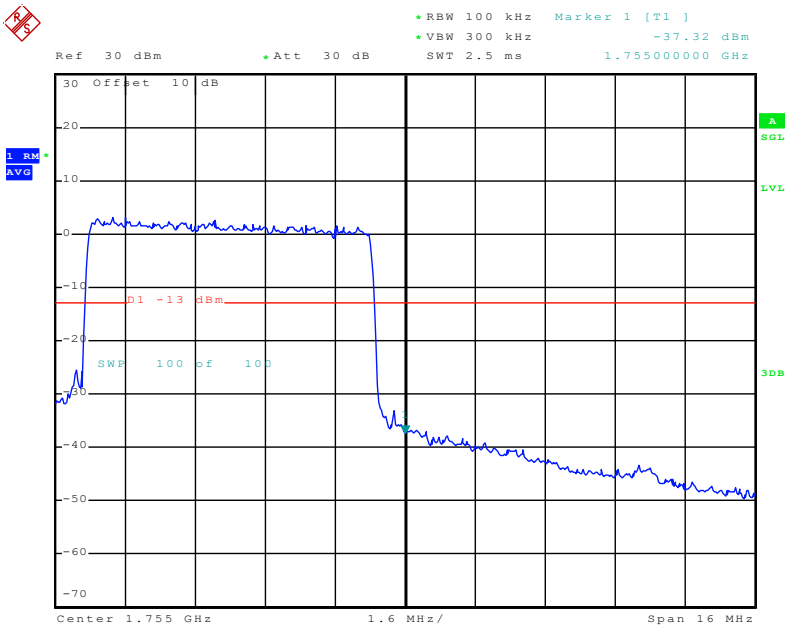
Highest channel

Test Mode: LTE band 4(QPSK RB Size 36 & RB Offset 35)



Date: 17.JAN.2015 15:55:51

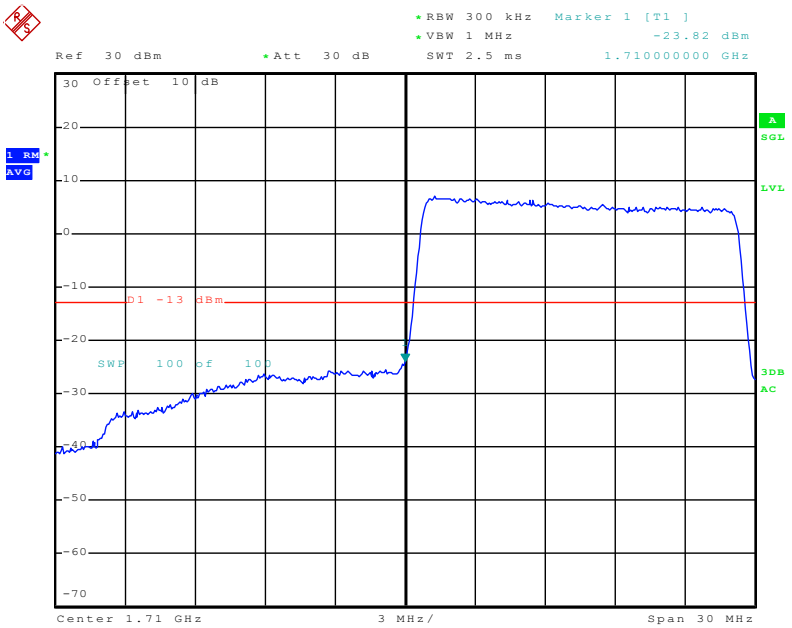
Lowest channel



Date: 19.JAN.2015 07:52:31

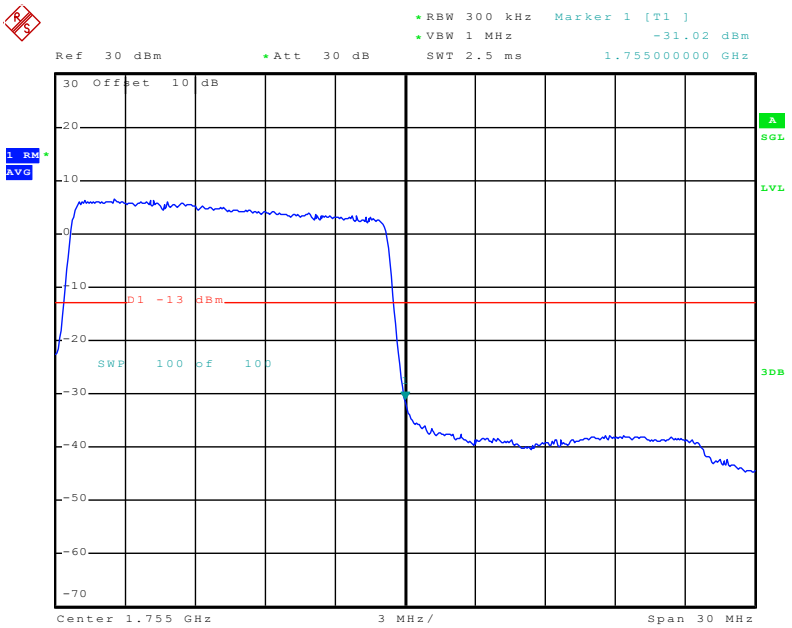
Highest channel

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



Date: 17.JAN.2015 15:57:45

Lowest channel

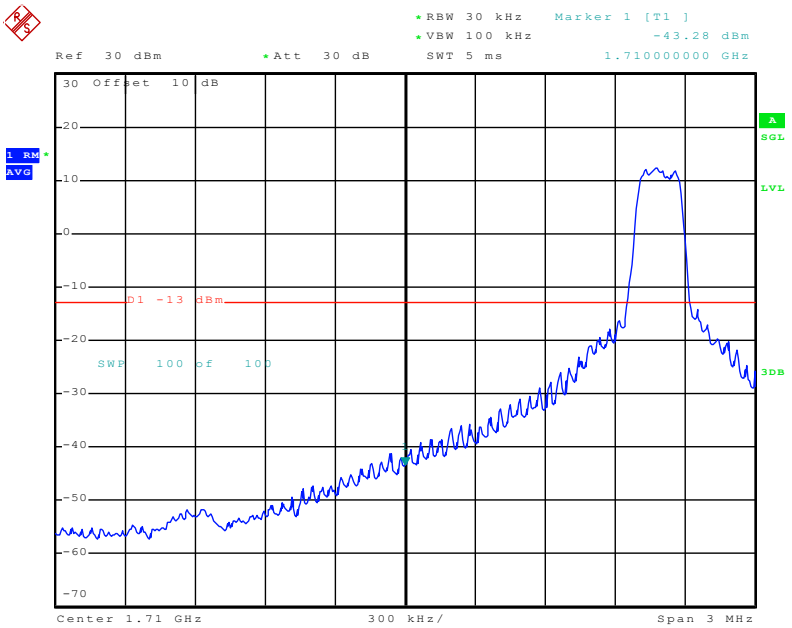


Date: 21.JAN.2015 07:51:55

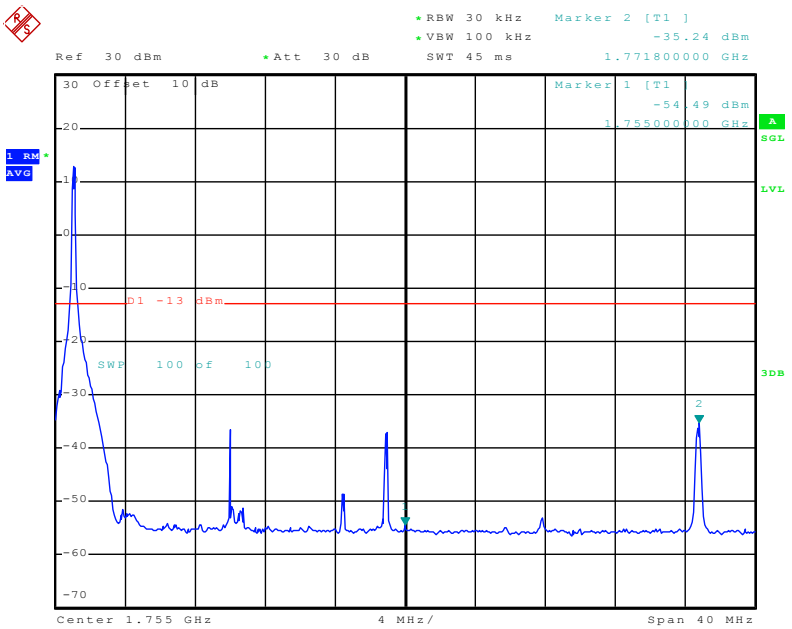
Highest channel

20MHz

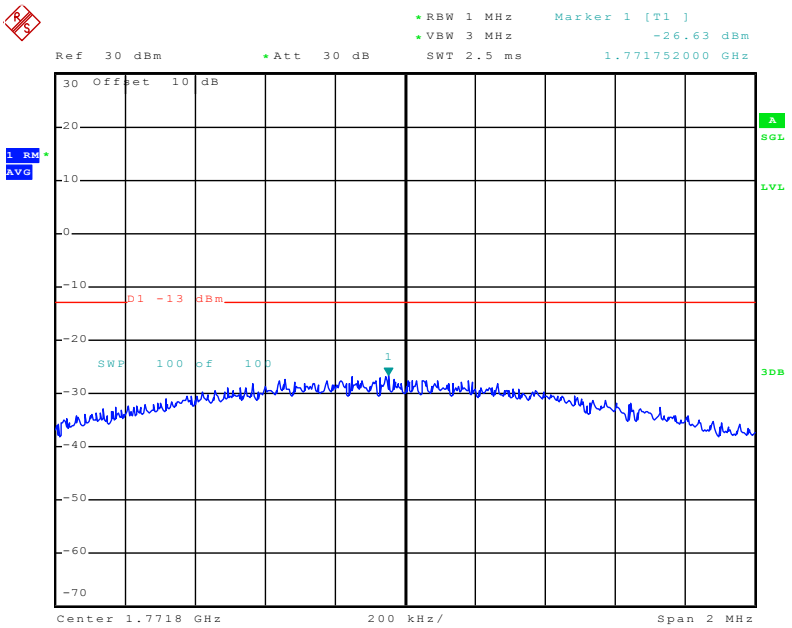
Test Mode: LTE band 4(16QAM RB Size 1 & RB Offset 0)



Lowest channel

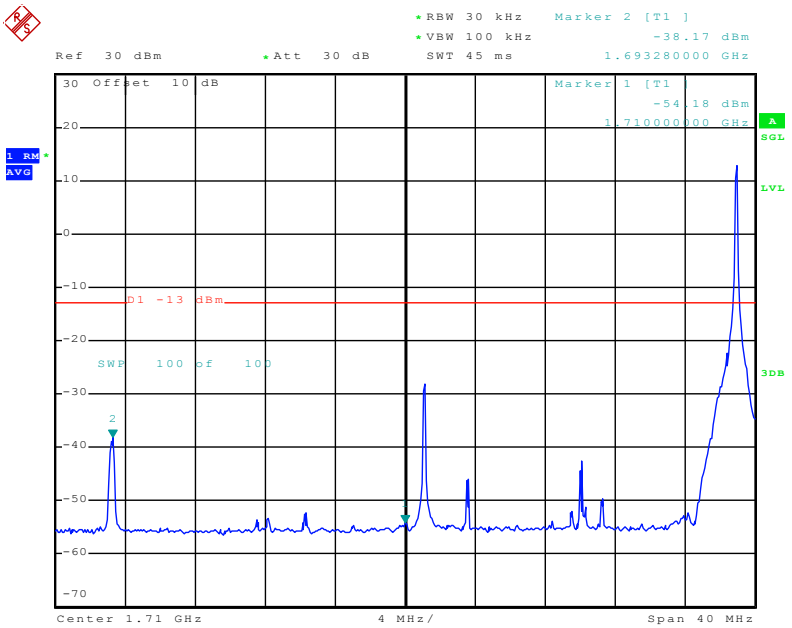


Highest channel



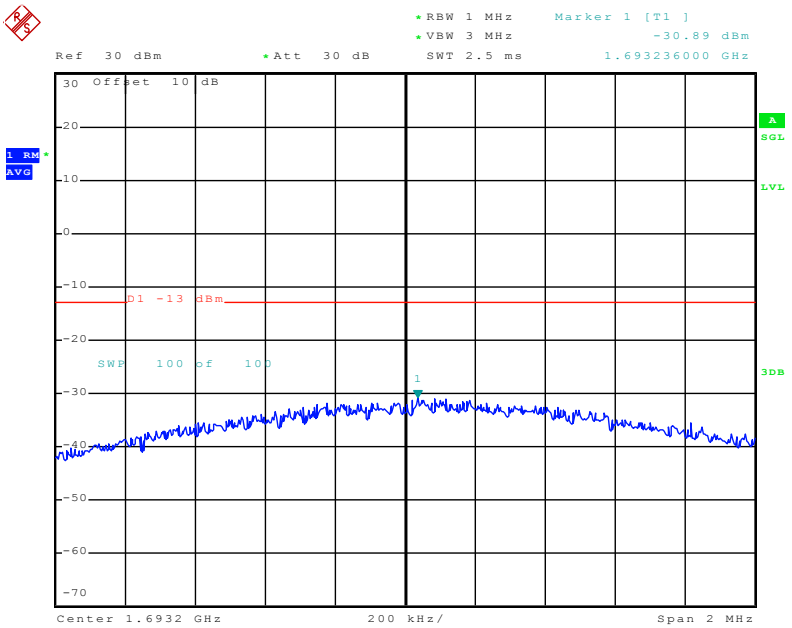
Date: 19.JAN.2015 08:23:41

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

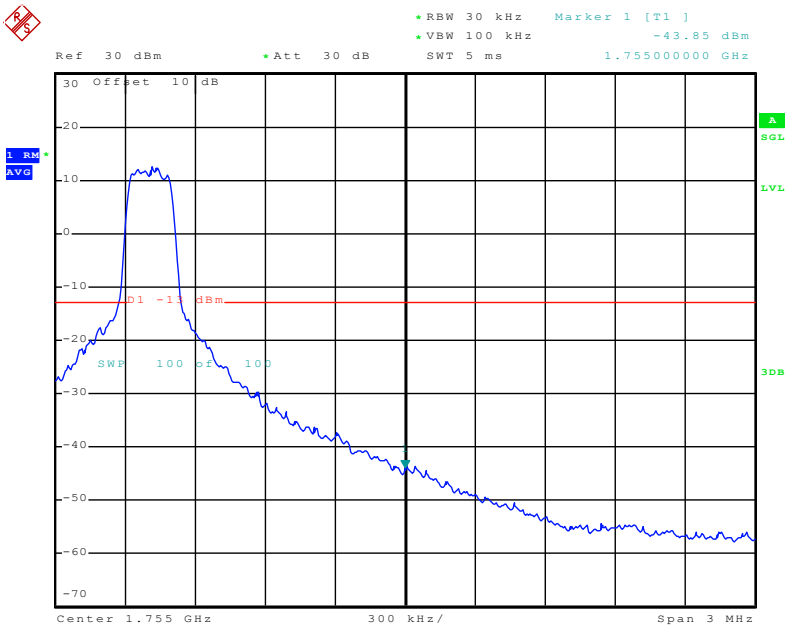


Date: 19.JAN.2015 08:16:10

Lowest channel



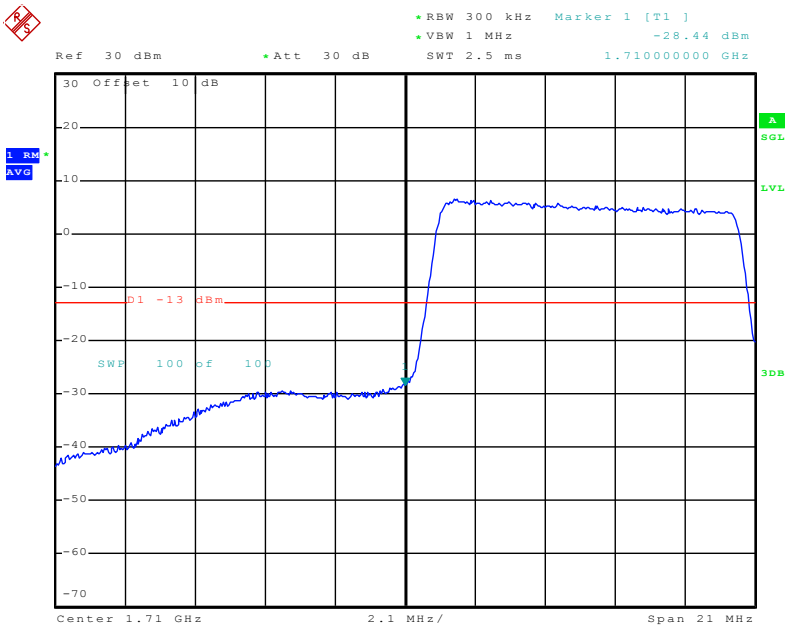
Date: 19.JAN.2015 08:16:48



Date: 19.JAN.2015 08:24:20

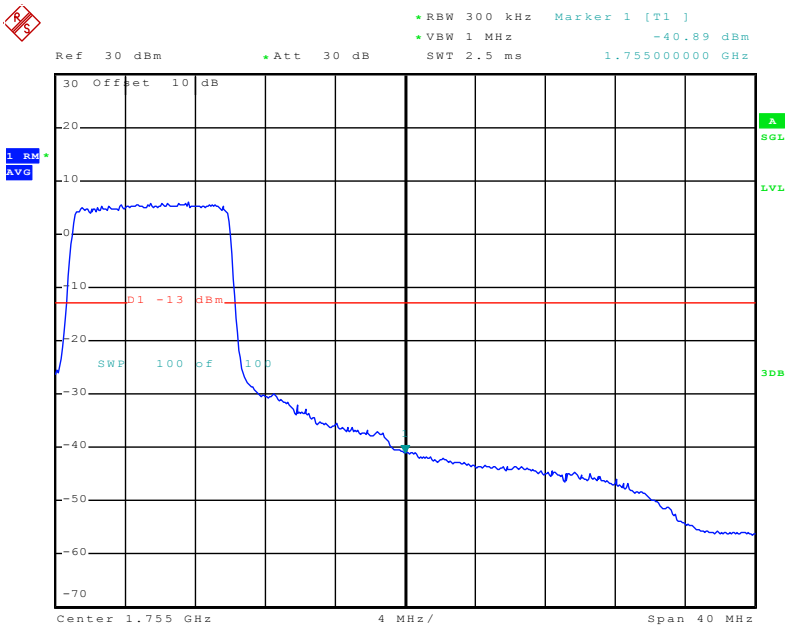
Highest channel

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



Date: 19.JAN.2015 08:17:27

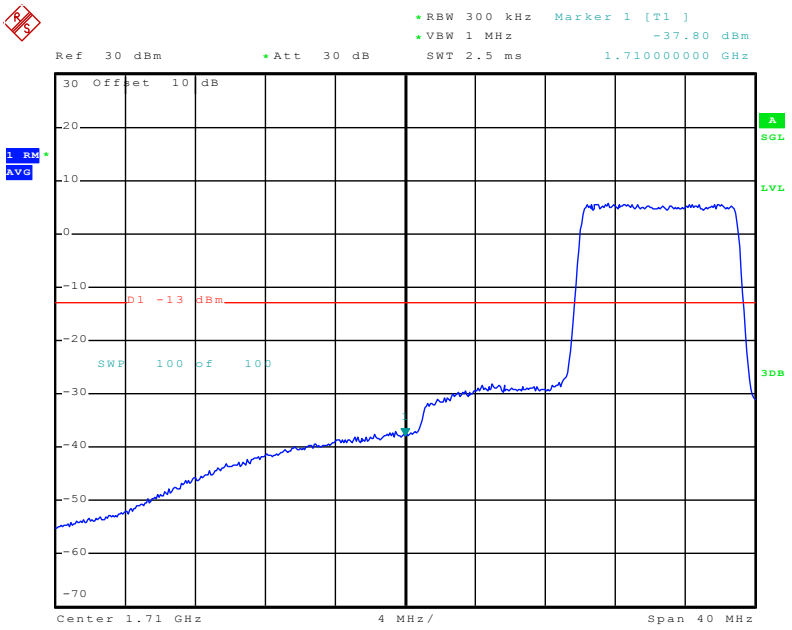
Lowest channel



Date: 19.JAN.2015 08:24:49

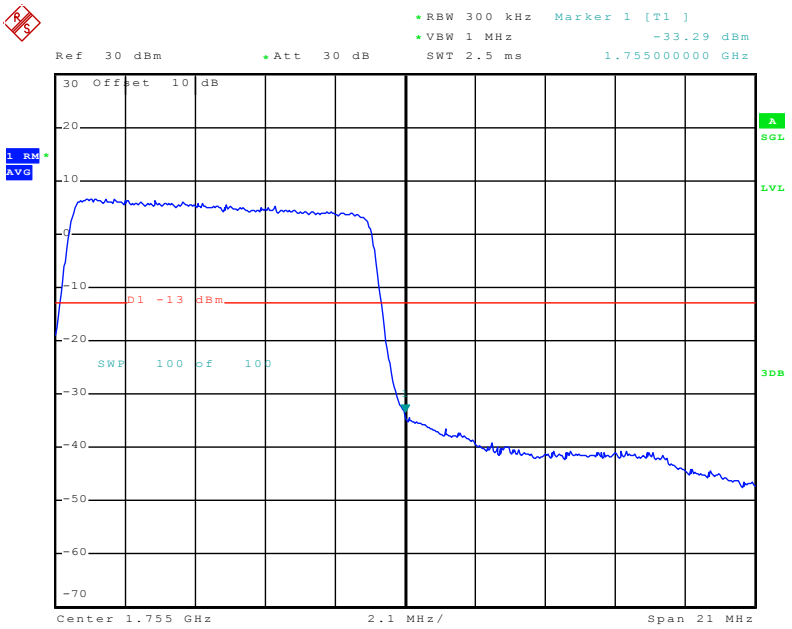
Highest channel

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



Date: 19.JAN.2015 08:17:59

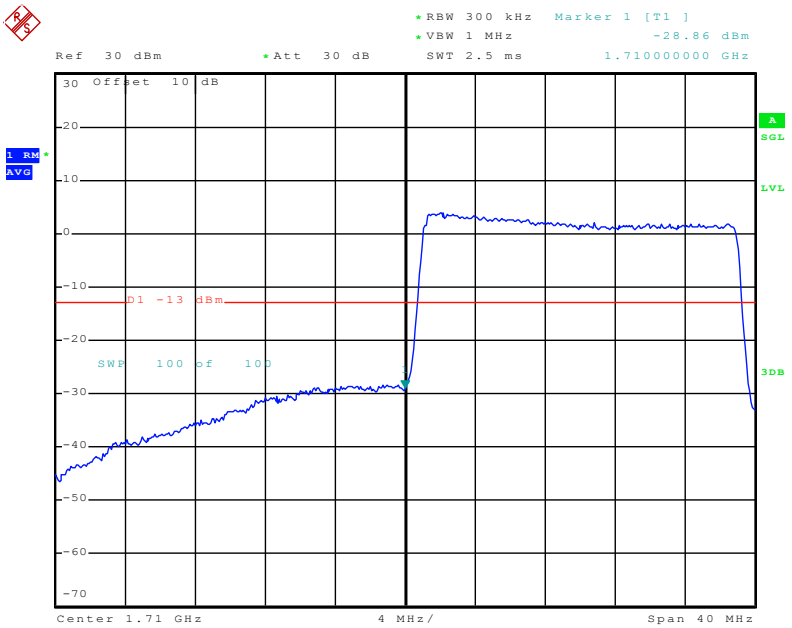
Lowest channel



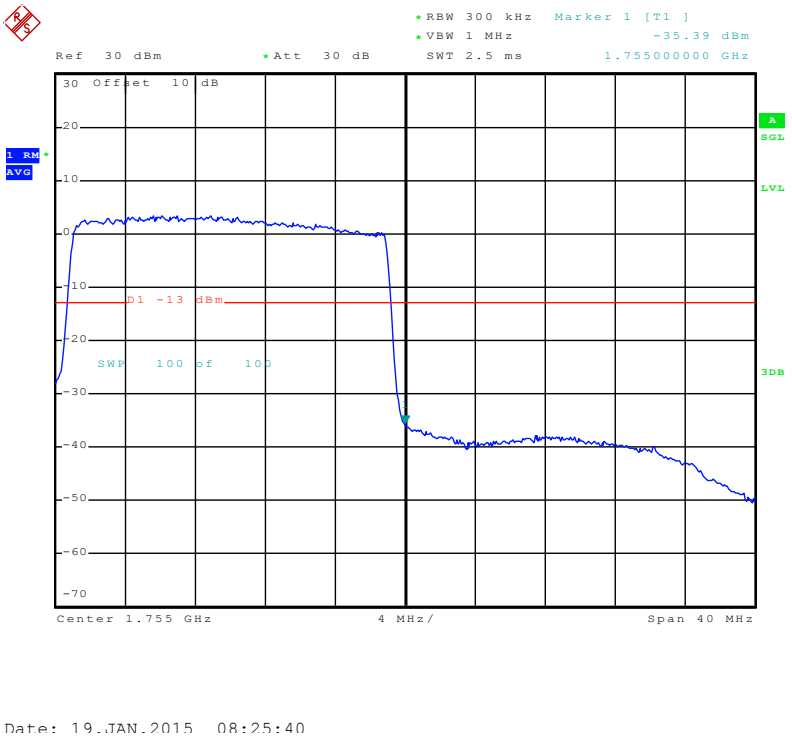
Date: 19.JAN.2015 08:25:07

Highest channel

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

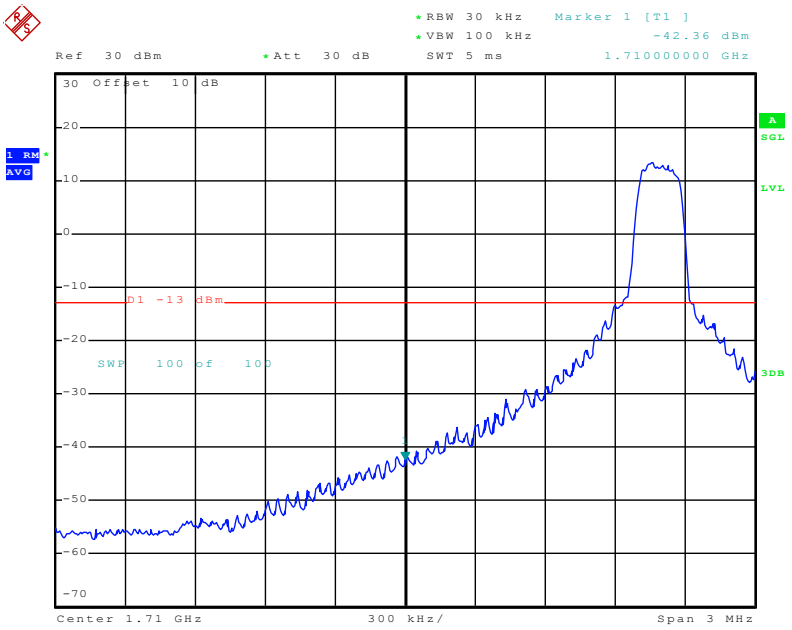


Lowest channel



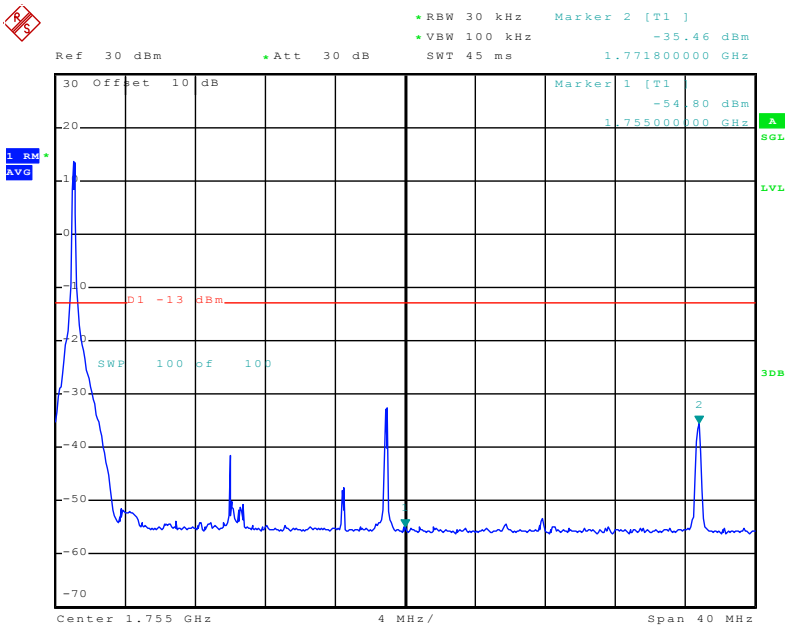
Highest channel

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



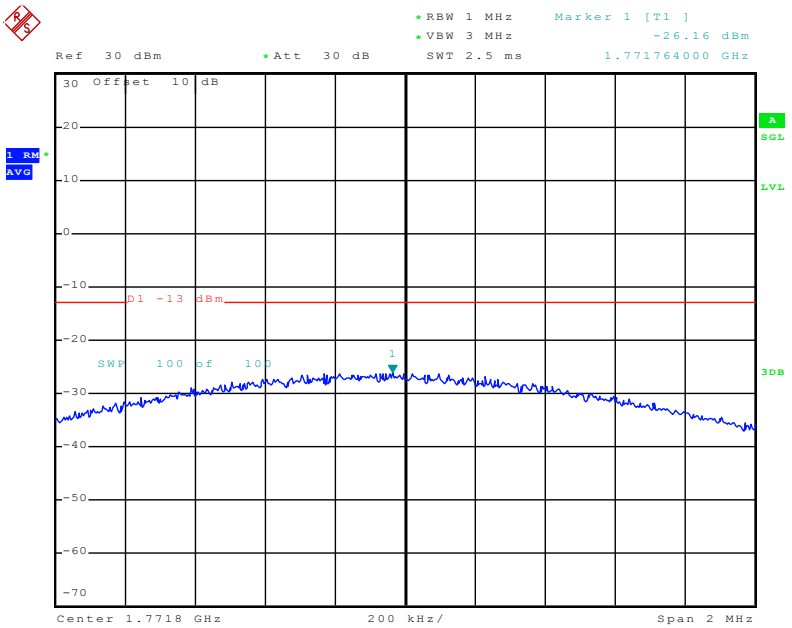
Date: 19.JAN.2015 08:03:24

Lowest channel



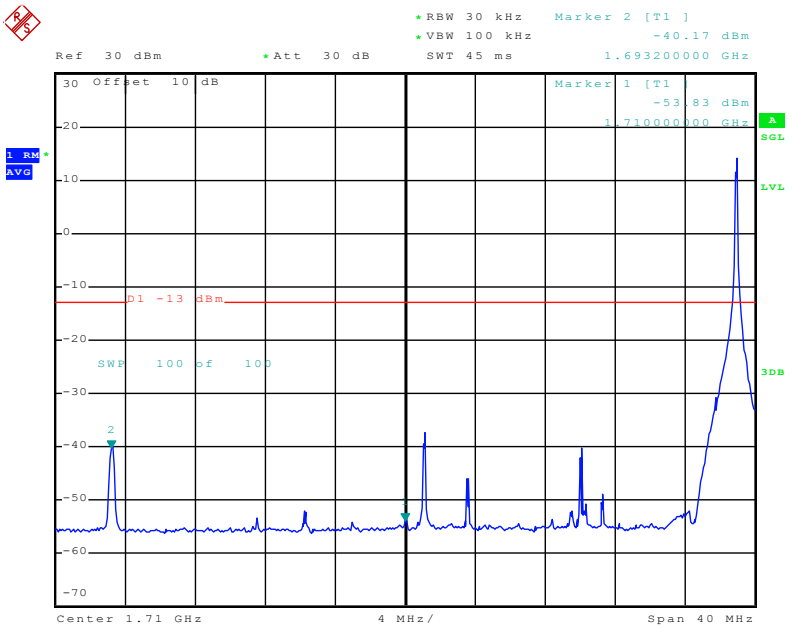
Date: 19.JAN.2015 08:20:17

Highest channel



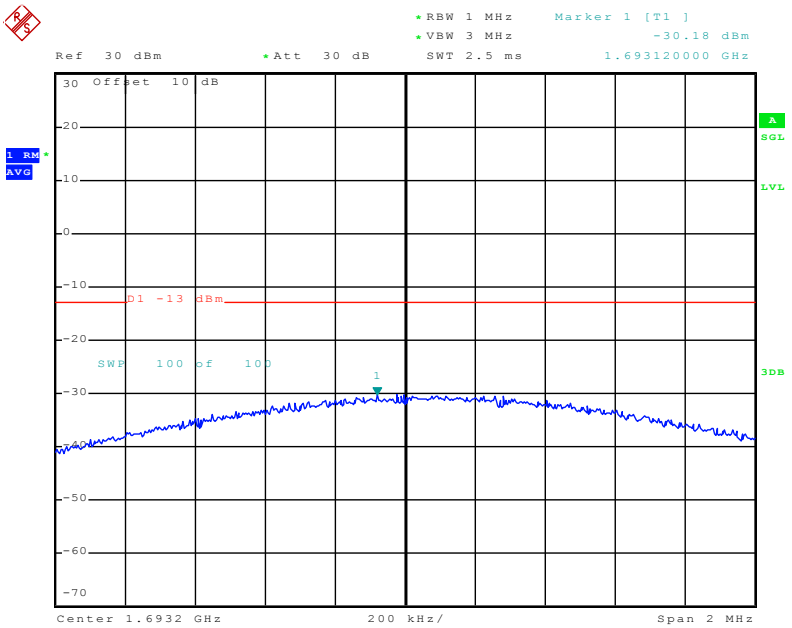
Date: 19.JAN.2015 08:20:42

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

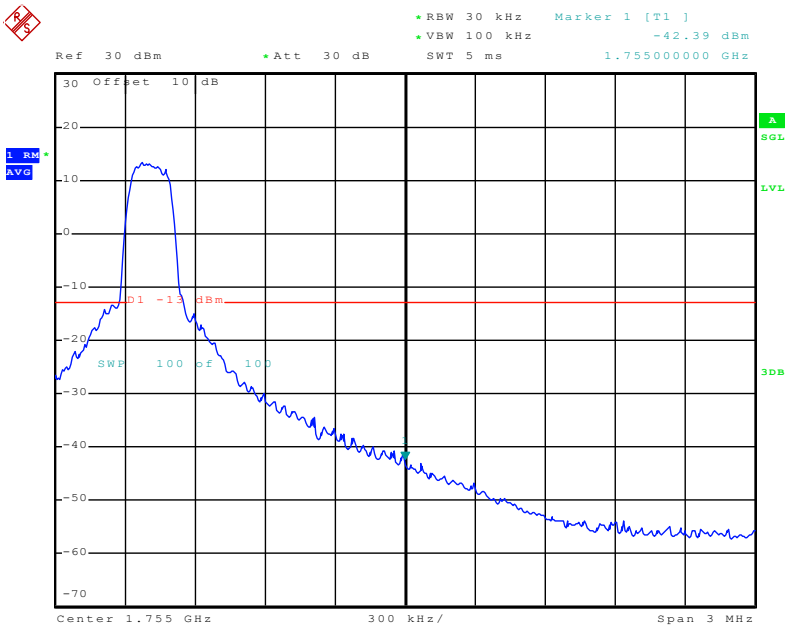


Date: 19.JAN.2015 08:04:10

Lowest channel



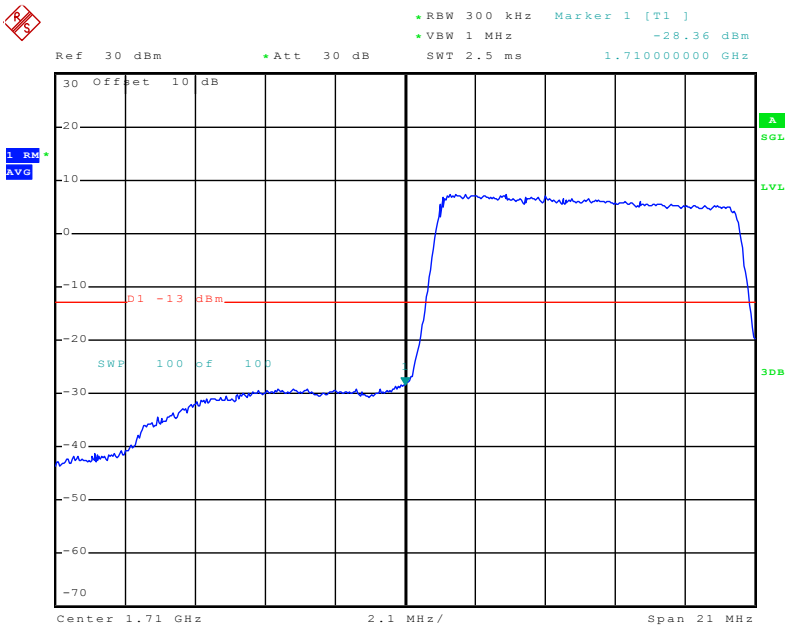
Date: 19.JAN.2015 08:04:46



Date: 19.JAN.2015 08:21:16

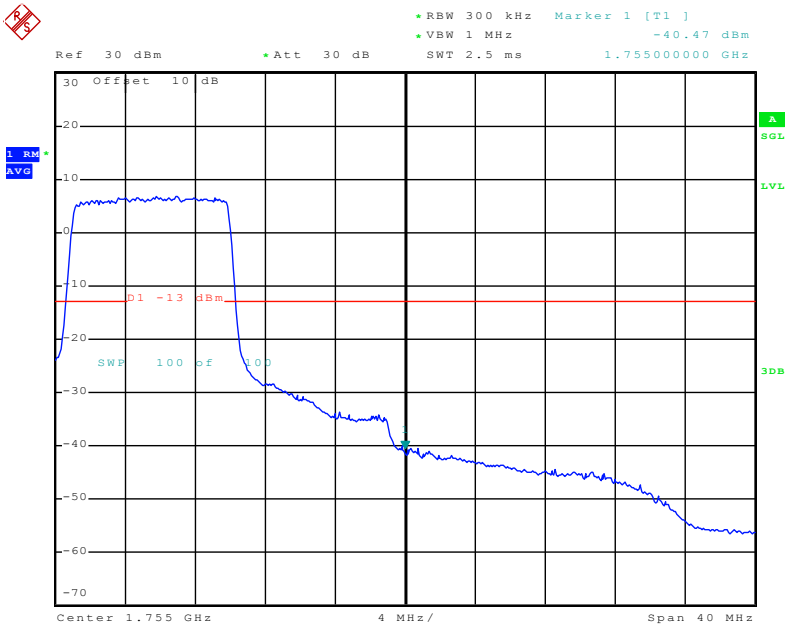
Highest channel

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



Date: 19.JAN.2015 08:13:14

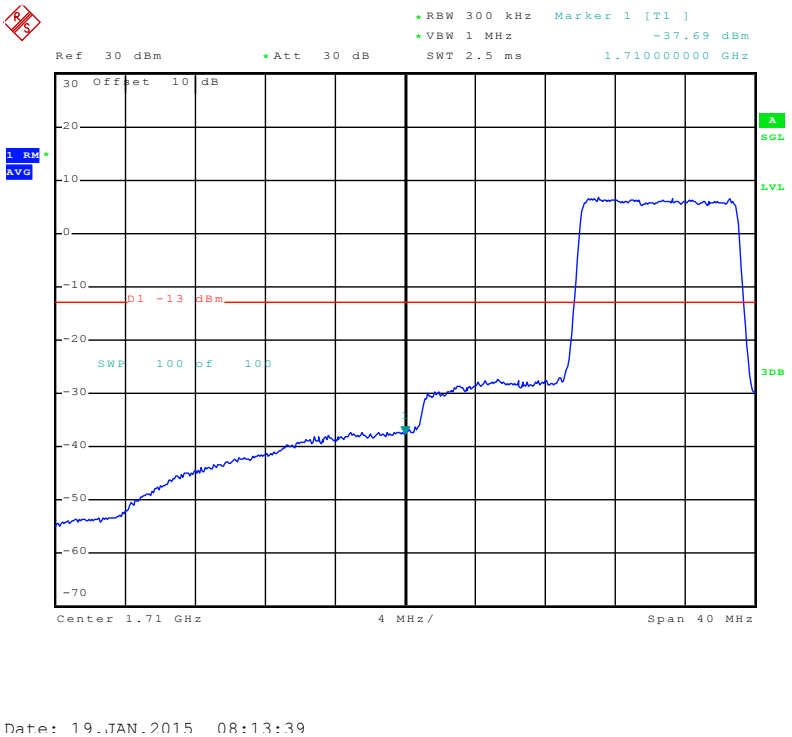
Lowest channel



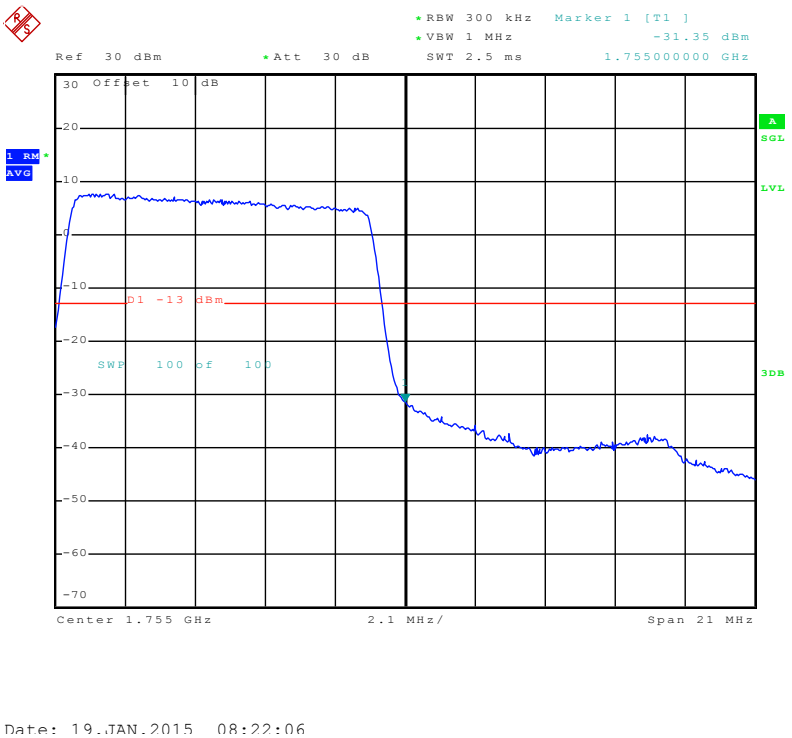
Date: 19.JAN.2015 08:21:48

Highest channel

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

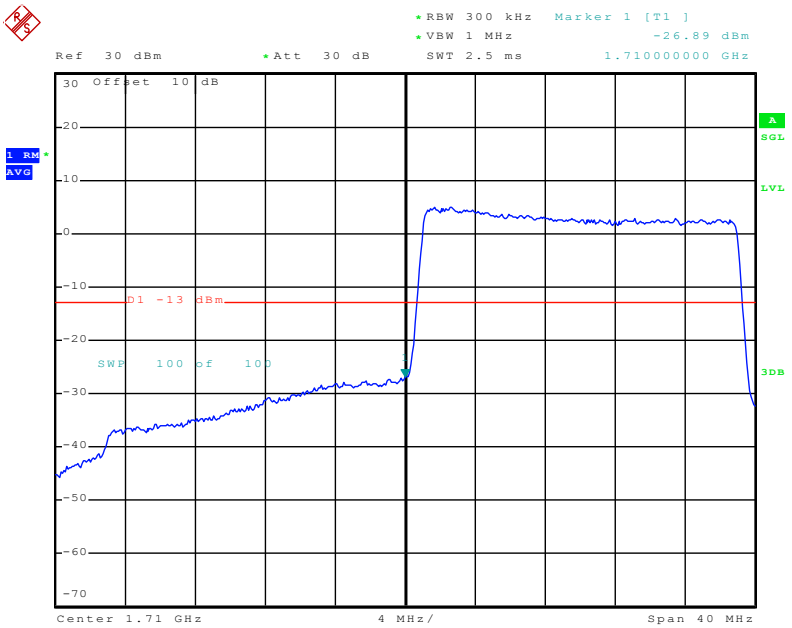


Lowest channel

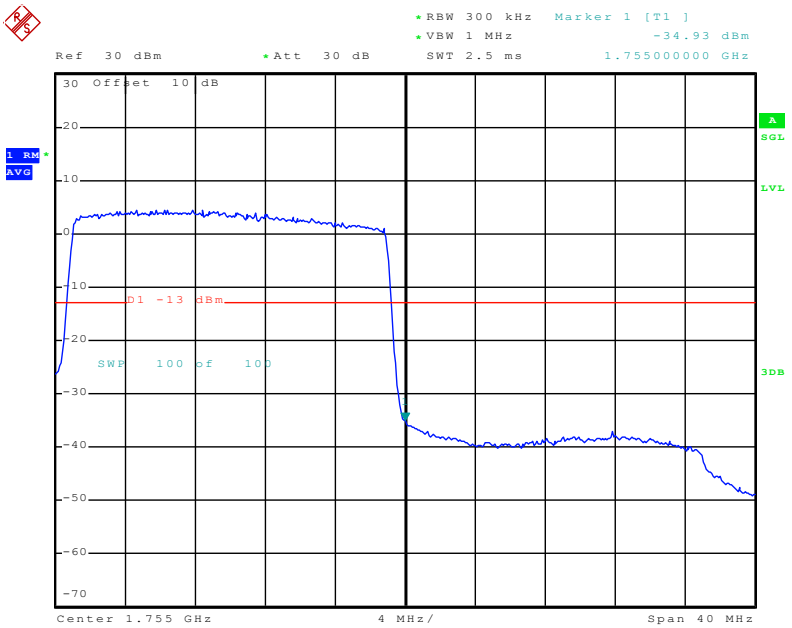


Highest channel

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



Lowest channel

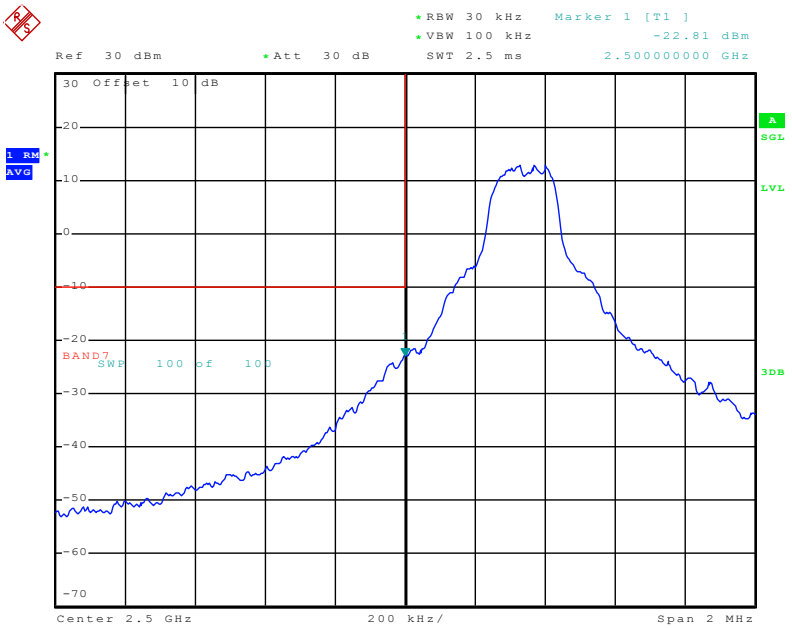


Highest channel

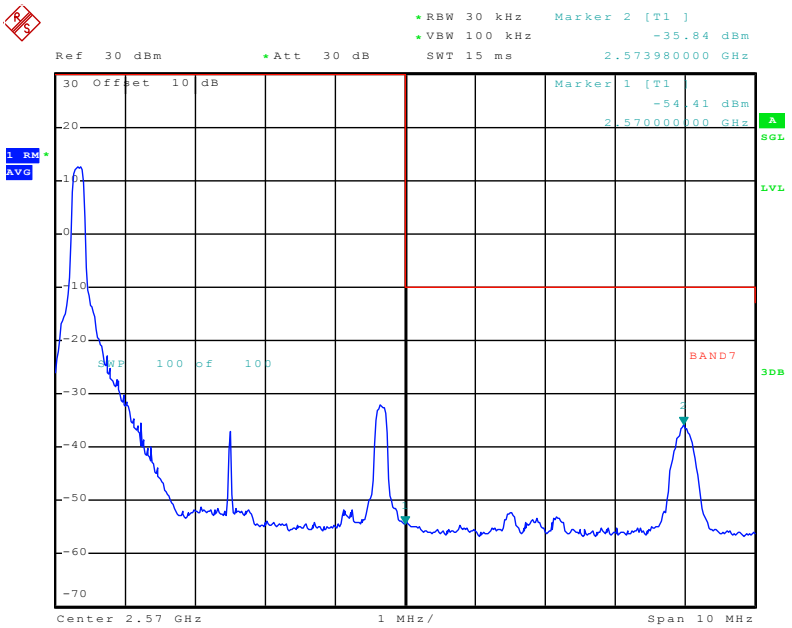
LTE band 7 part

5MHz

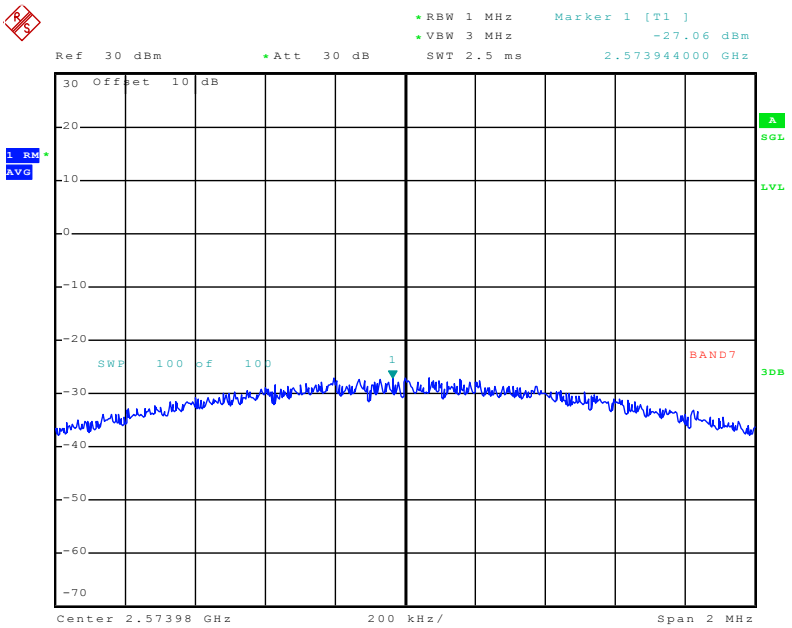
Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 0)



Lowest channel

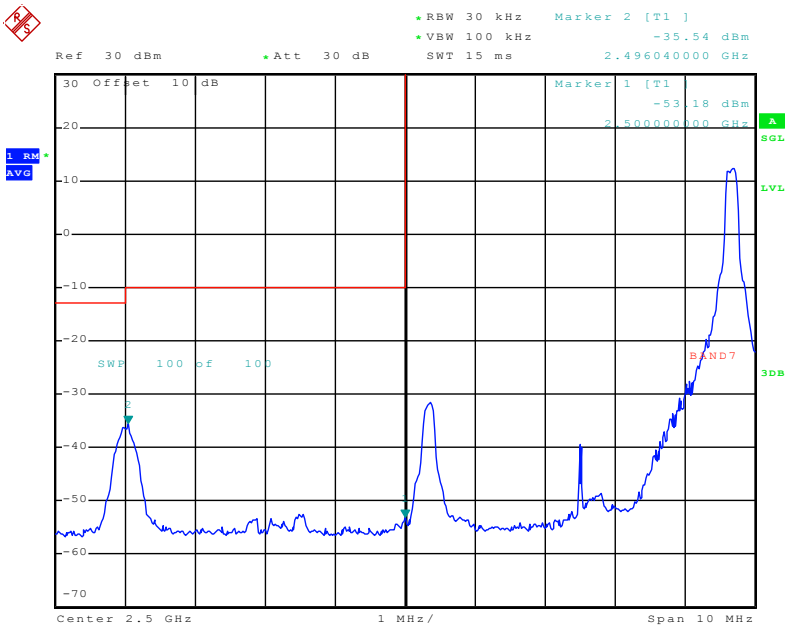


Highest channel



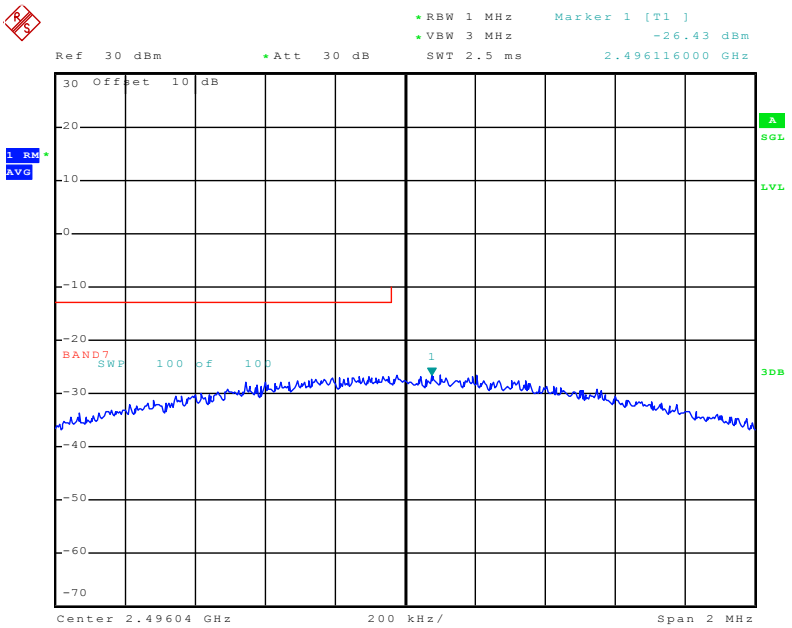
Date: 19.JAN.2015 10:34:13

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

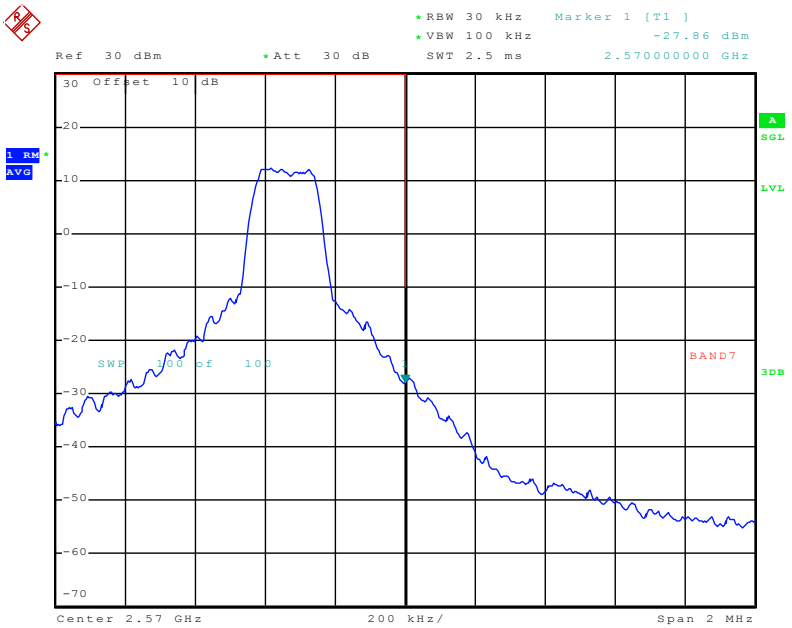


Date: 19.JAN.2015 10:30:43

Lowest channel



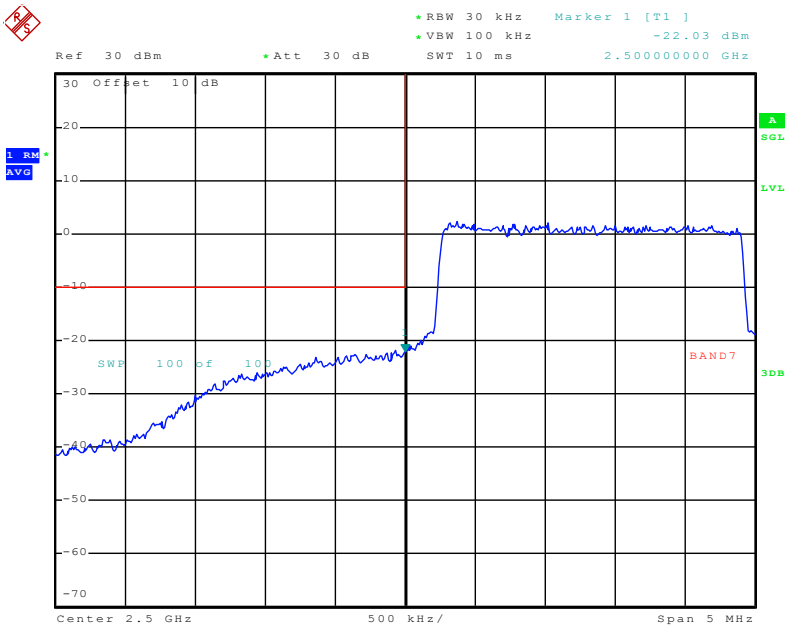
Date: 19.JAN.2015 10:31:07



Date: 19.JAN.2015 10:34:44

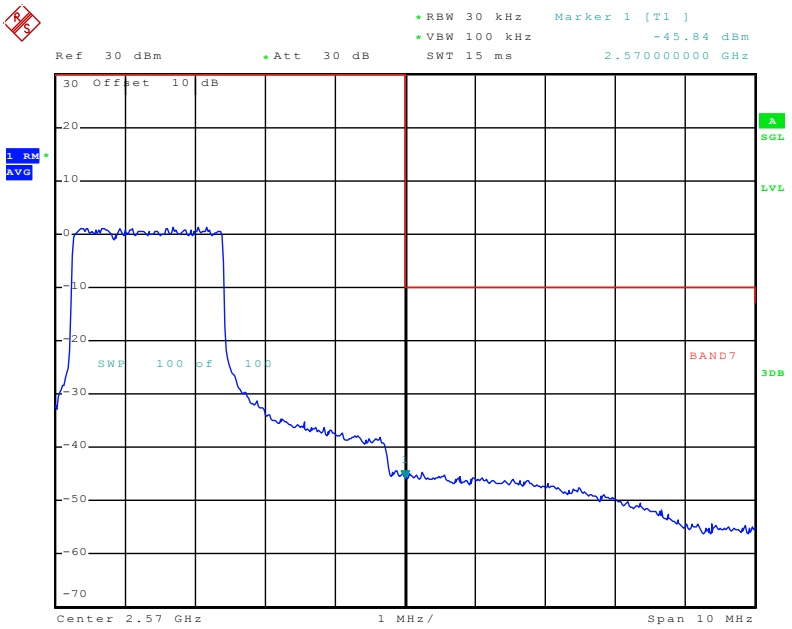
Highest channel

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



Date: 19.JAN.2015 10:32:15

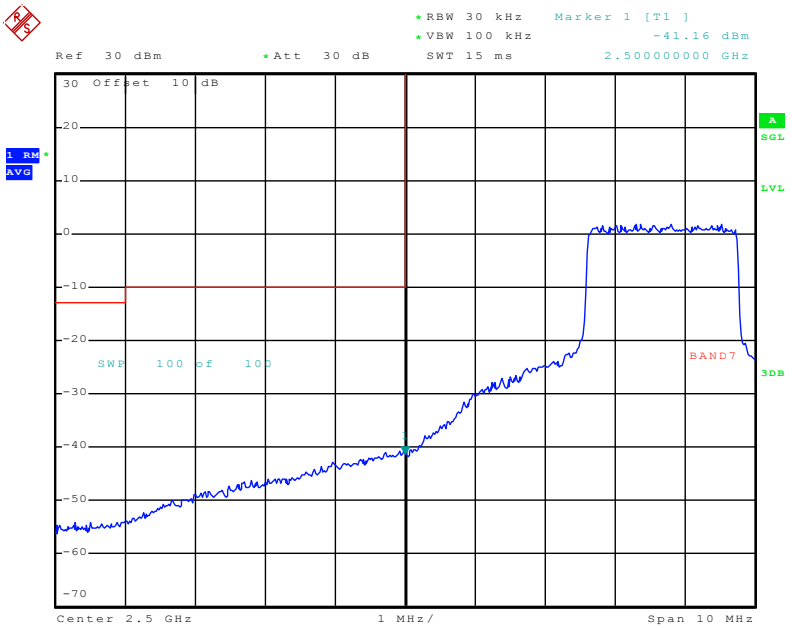
Lowest channel



Date: 19.JAN.2015 10:26:22

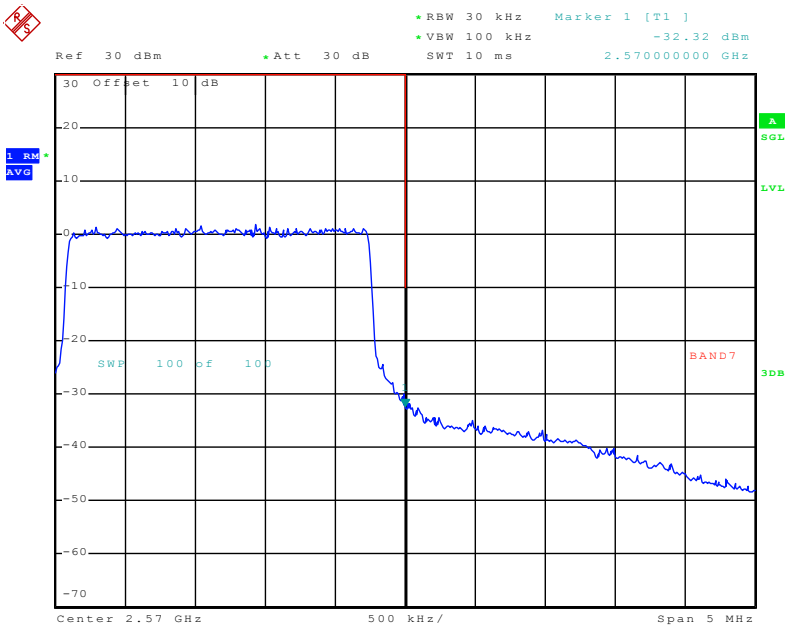
Highest channel

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



Date: 19.JAN.2015 10:32:30

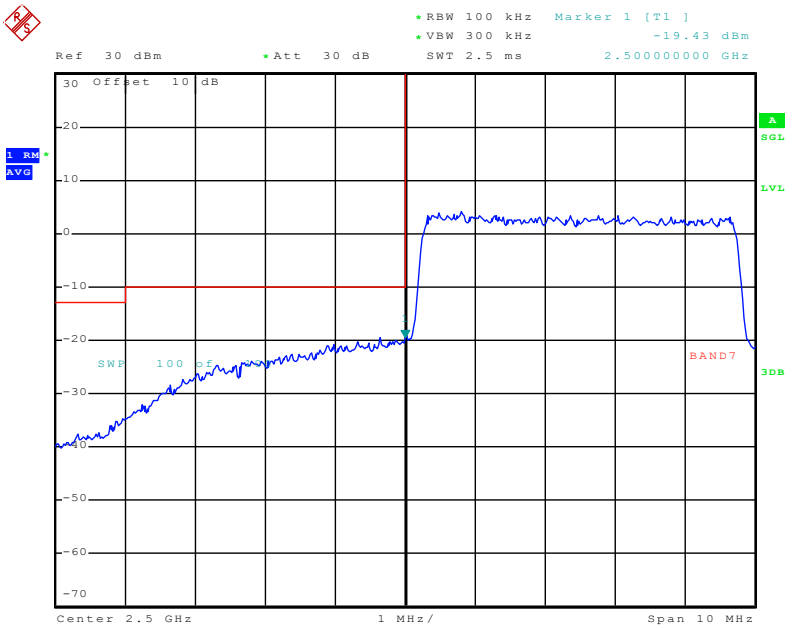
Lowest channel



Date: 19.JAN.2015 10:26:35

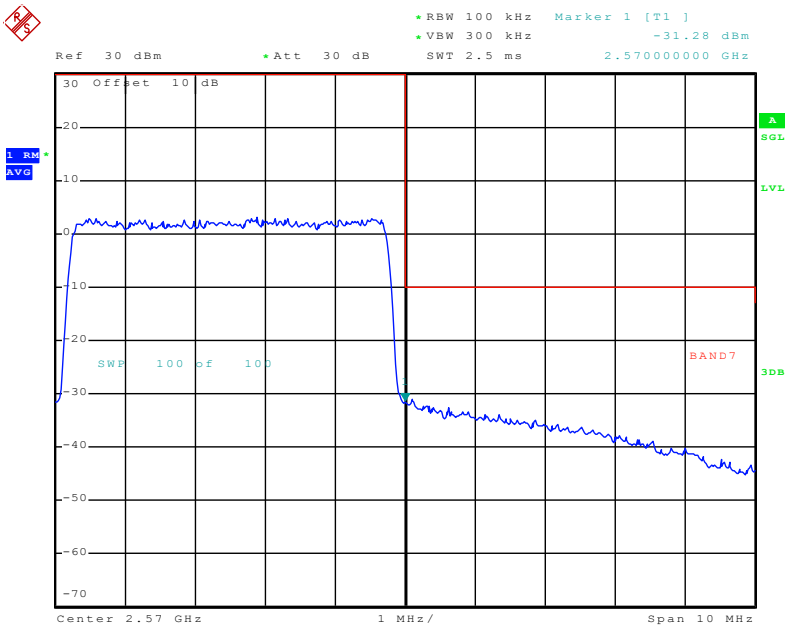
Highest channel

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



Date: 19.JAN.2015 10:32:58

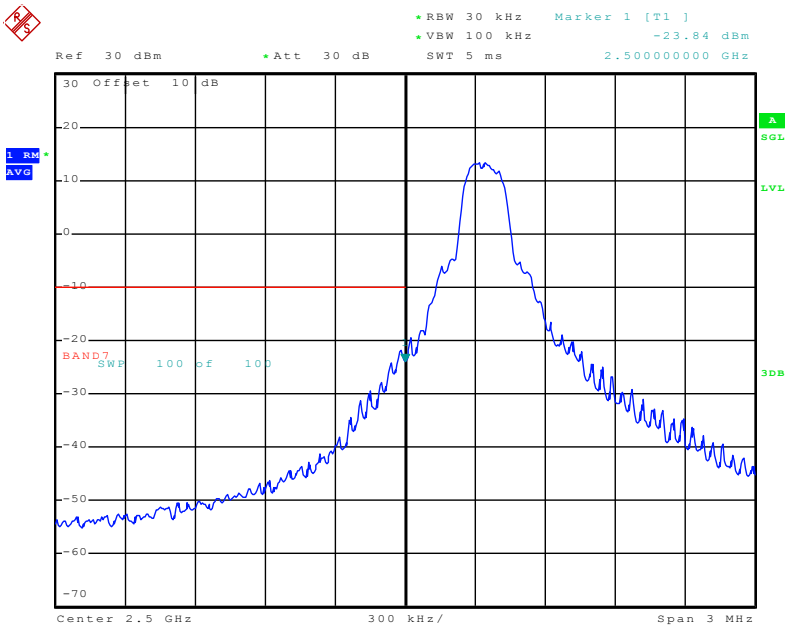
Lowest channel



Date: 19.JAN.2015 10:27:01

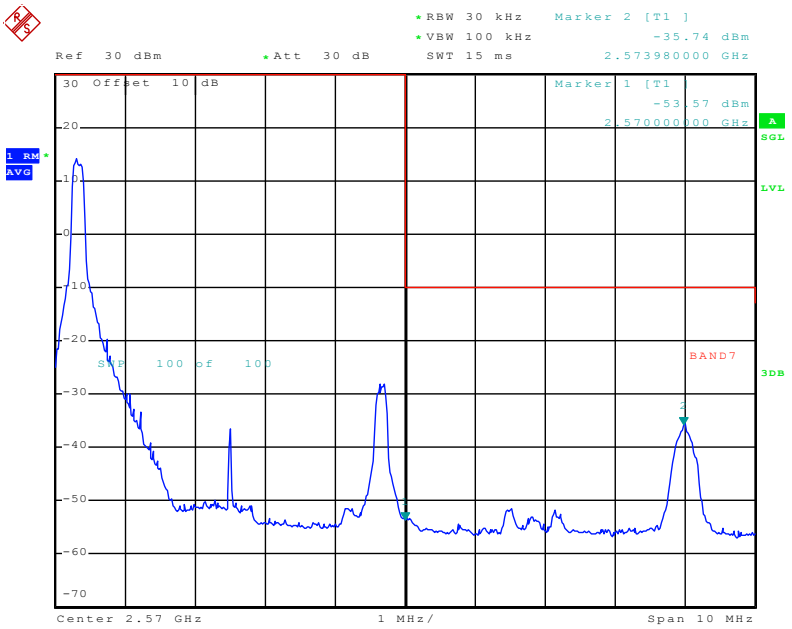
Highest channel

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



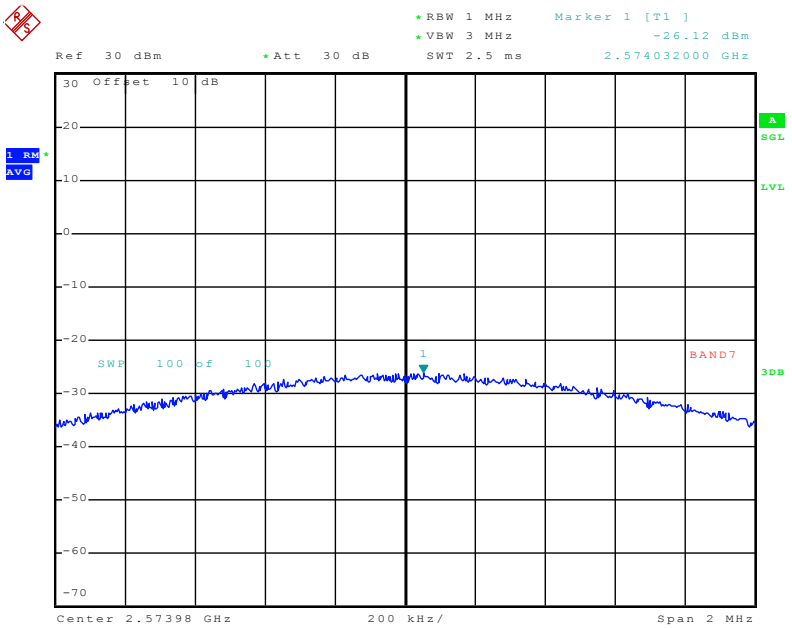
Date: 19.JAN.2015 08:30:31

Lowest channel



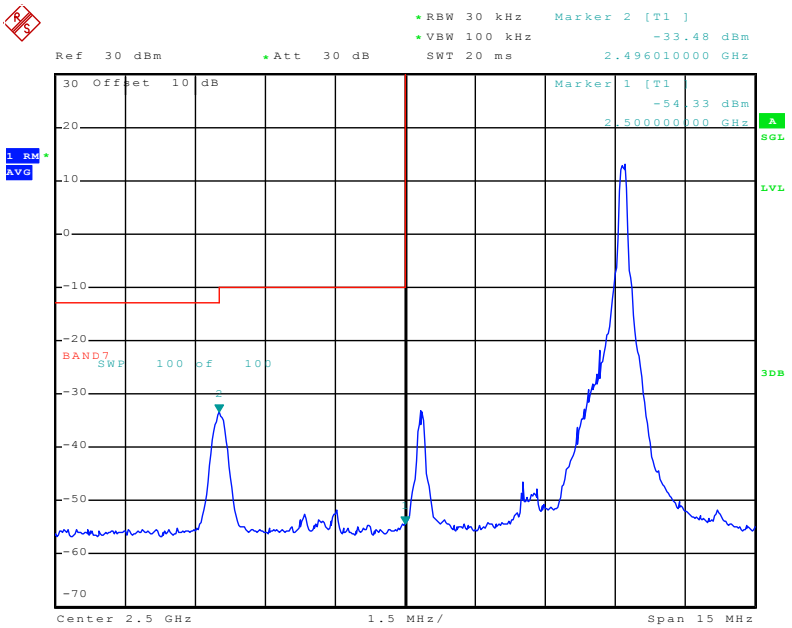
Date: 19.JAN.2015 10:20:18

Highest channel



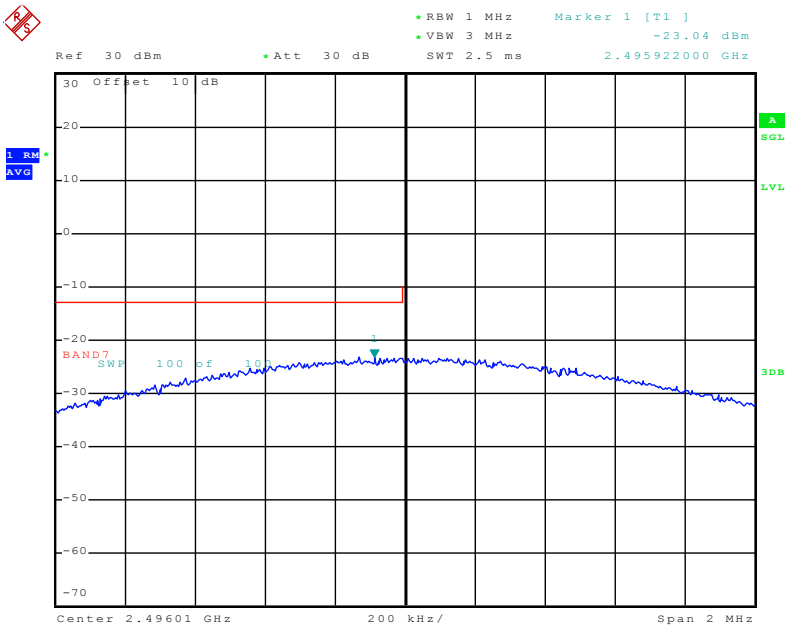
Date: 19.JAN.2015 10:20:54

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

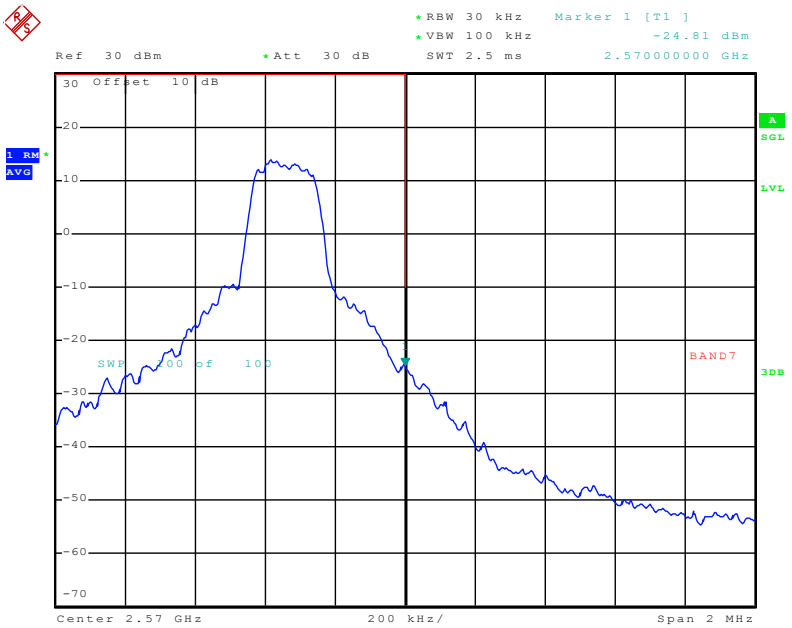


Date: 19.JAN.2015 08:40:54

Lowest channel



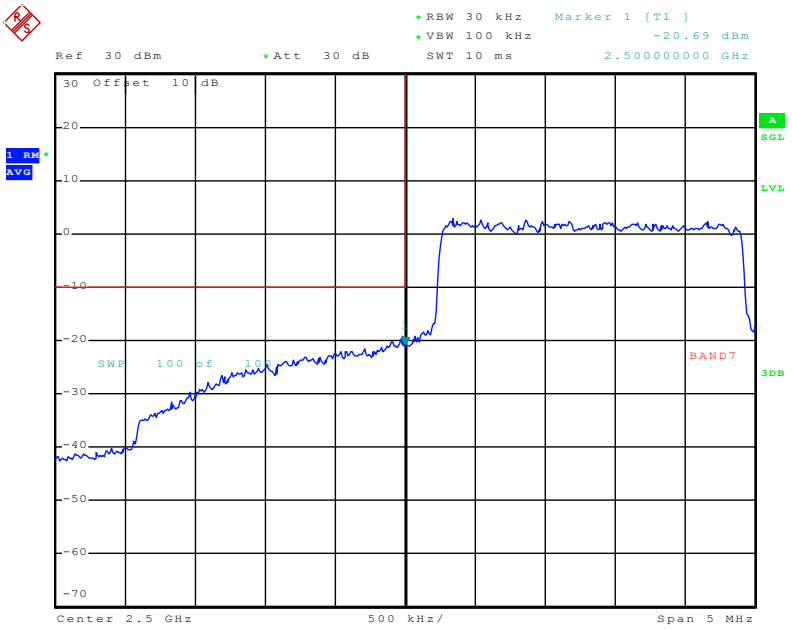
Date: 19.JAN.2015 08:41:49



Date: 19.JAN.2015 10:21:48

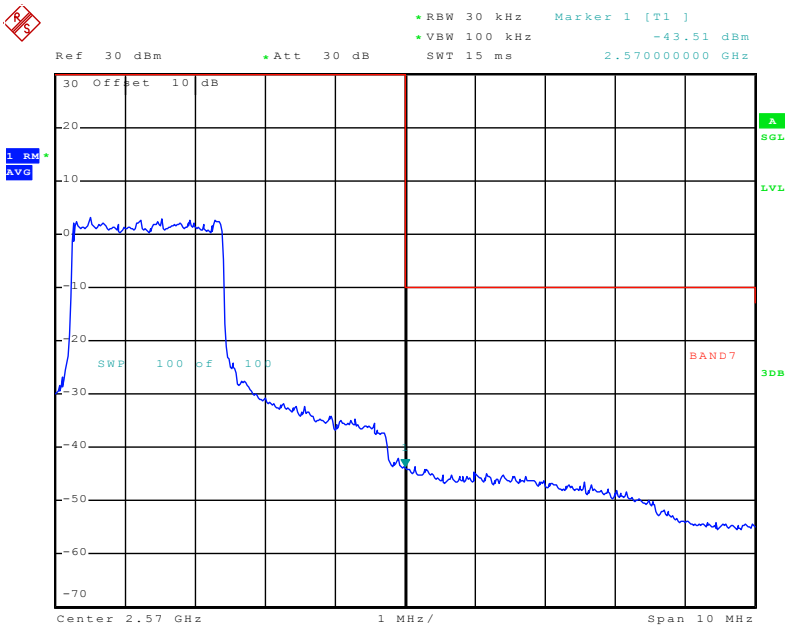
Highest channel

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



Date: 19.JAN.2015 08:44:48

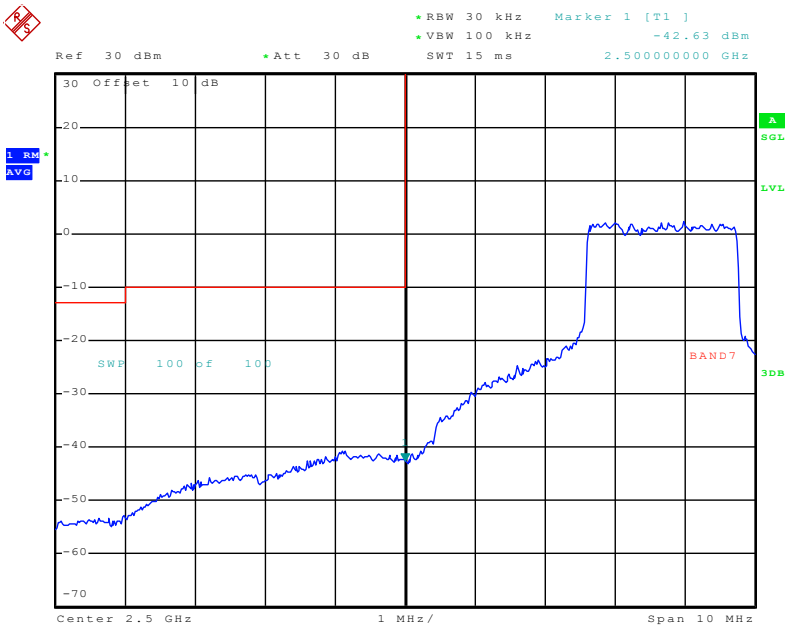
Lowest channel



Date: 19.JAN.2015 10:22:19

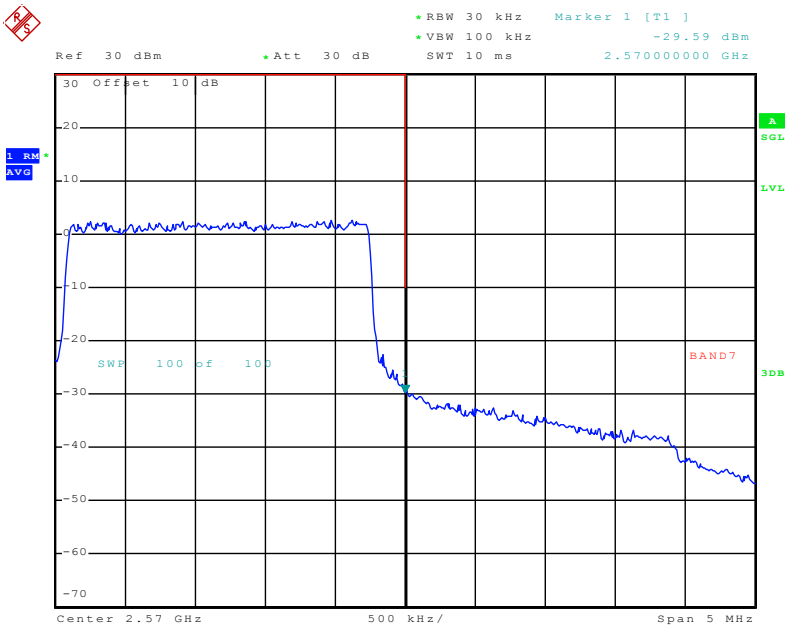
Highest channel

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



Date: 19.JAN.2015 08:46:26

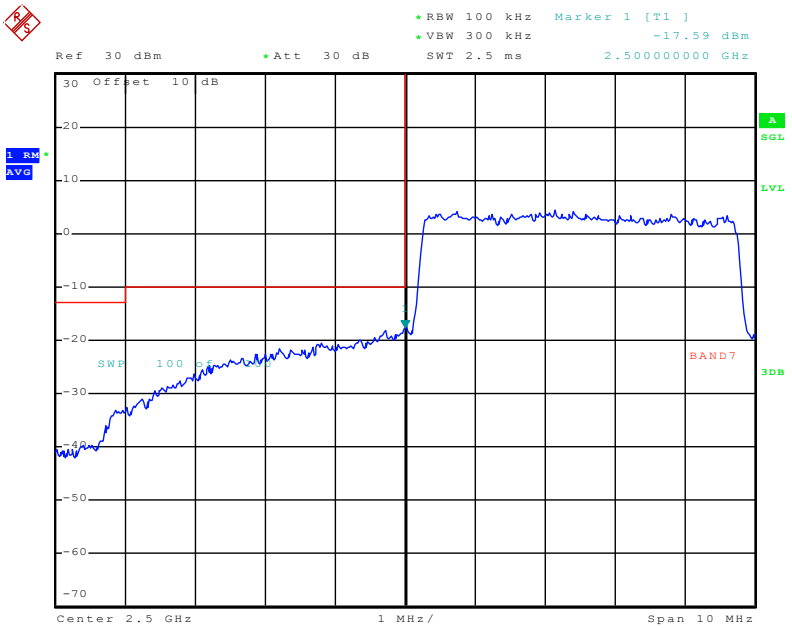
Lowest channel



Date: 19.JAN.2015 10:22:37

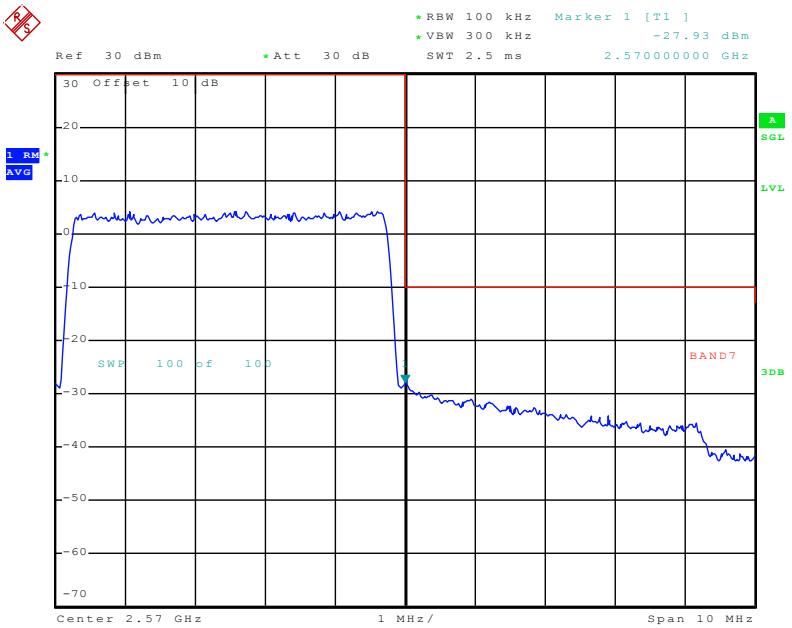
Highest channel

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



Date: 19.JAN.2015 08:47:55

Lowest channel

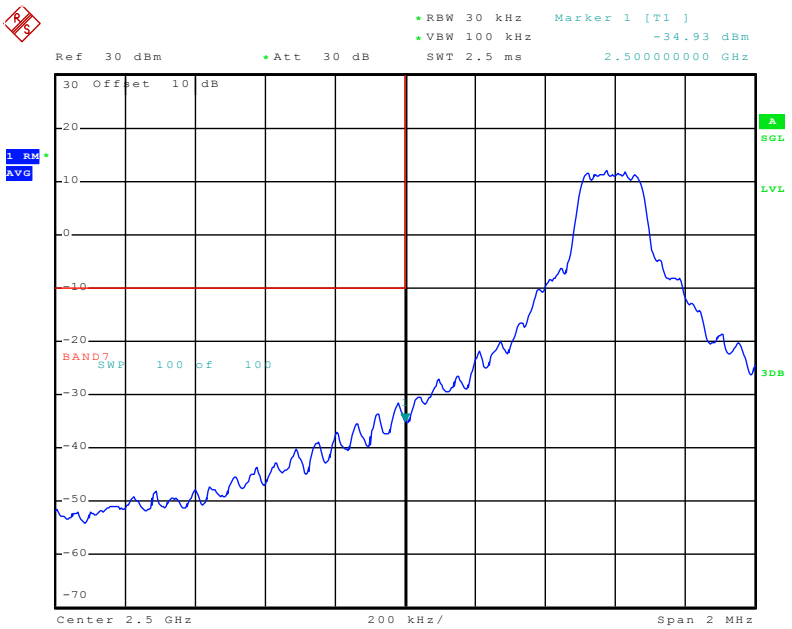


Date: 19.JAN.2015 10:23:19

Highest channel

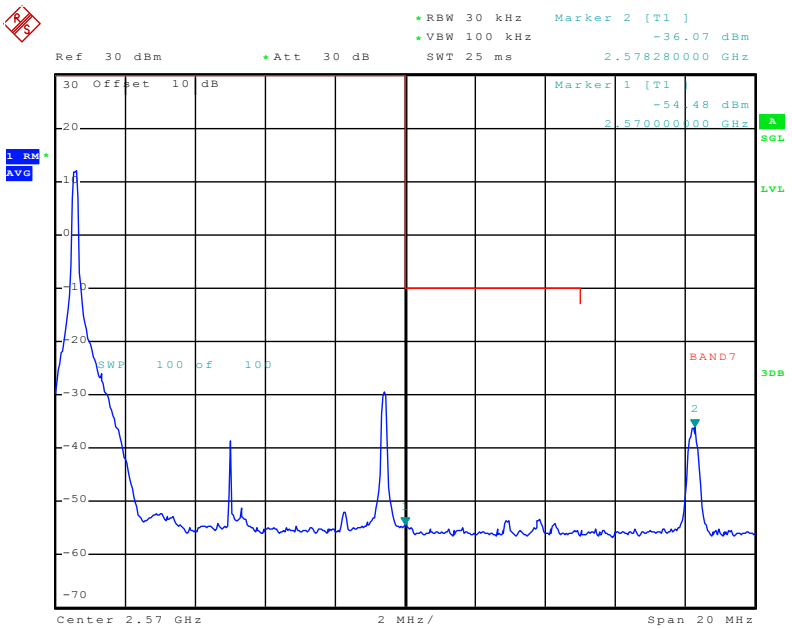
10MHz

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



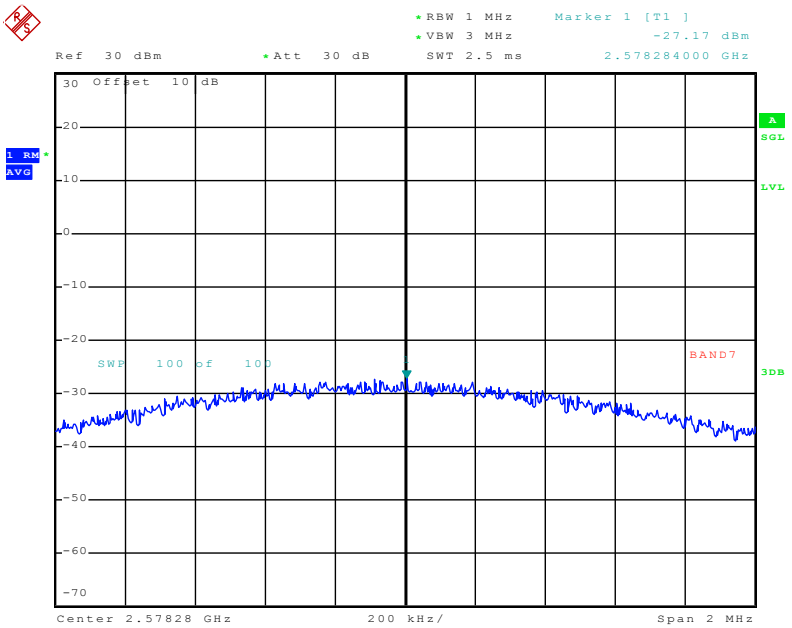
Date: 19.JAN.2015 10:46:47

Lowest channel



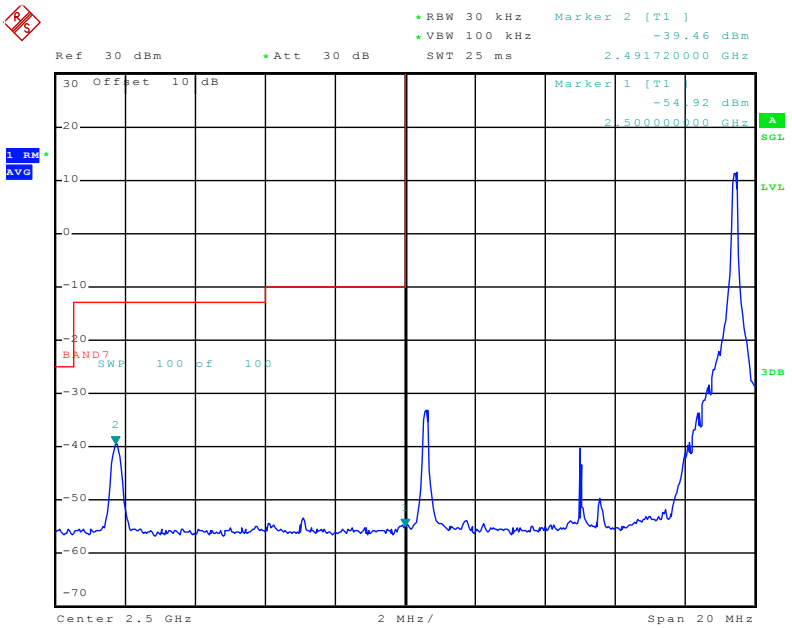
Date: 19.JAN.2015 10:52:29

Highest channel



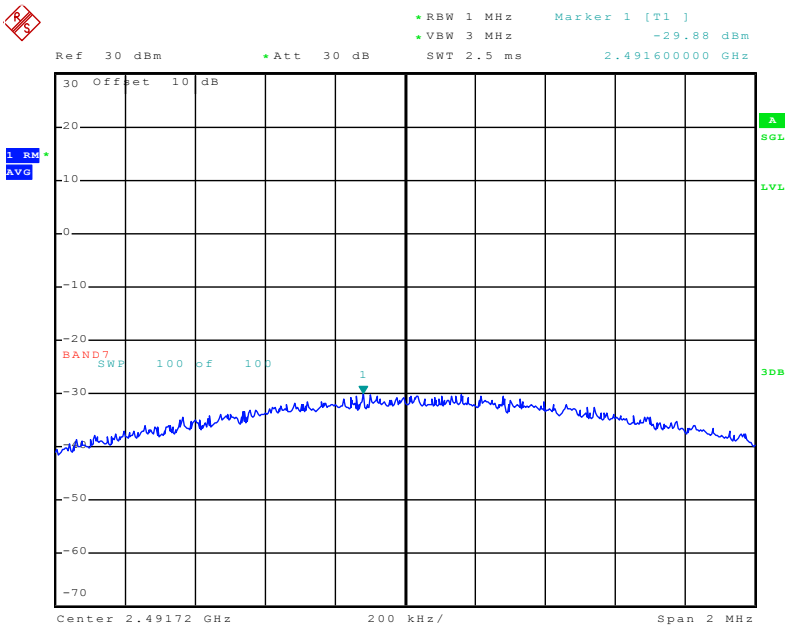
Date: 19.JAN.2015 10:52:46

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

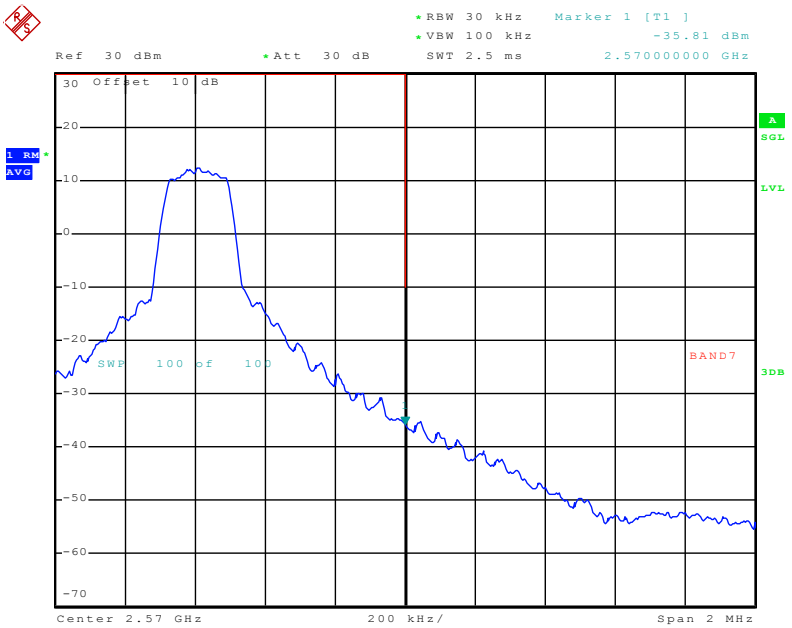


Date: 19.JAN.2015 10:47:08

Lowest channel



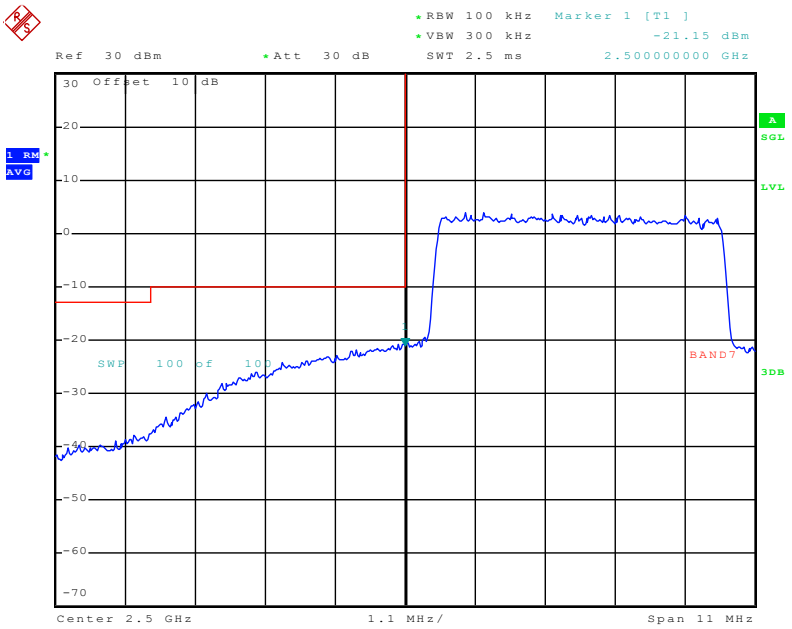
Date: 19.JAN.2015 10:47:25



Date: 19.JAN.2015 10:53:15

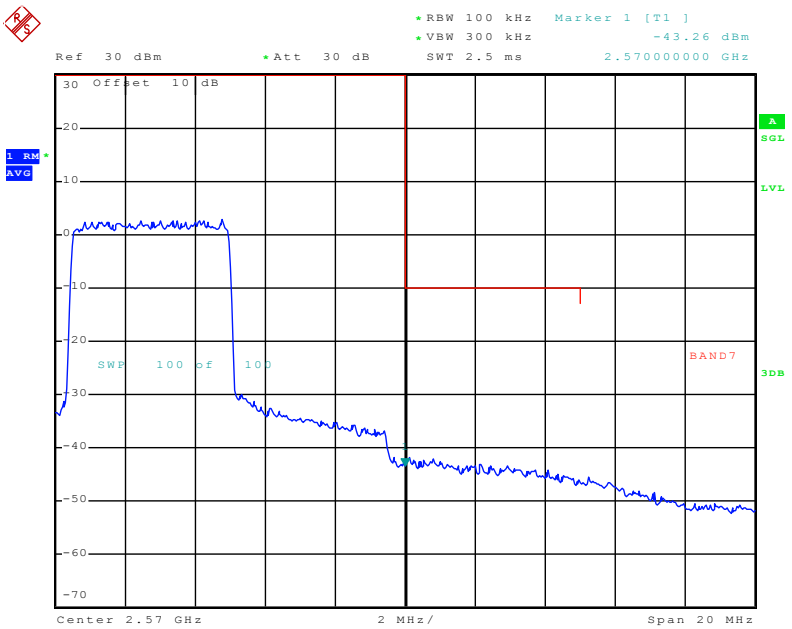
Highest channel

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



Date: 19.JAN.2015 10:48:16

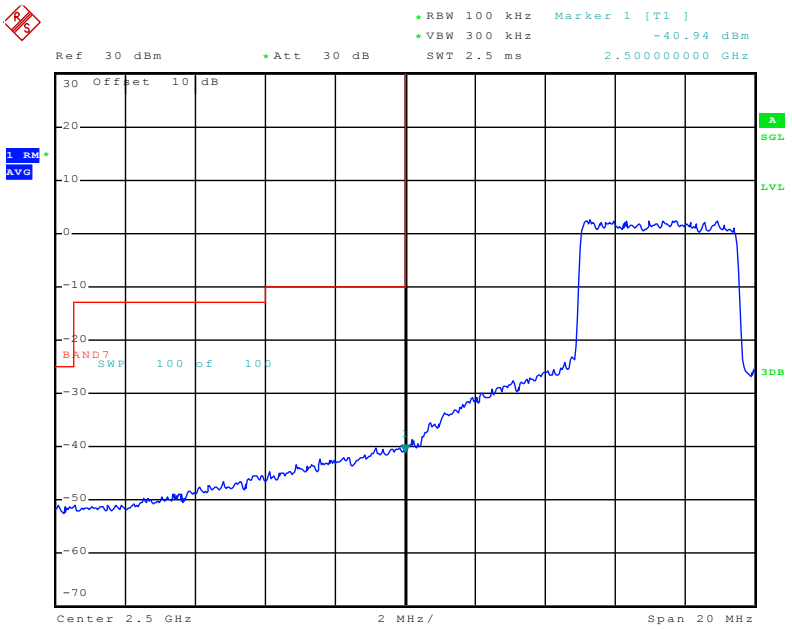
Lowest channel



Date: 19.JAN.2015 10:53:37

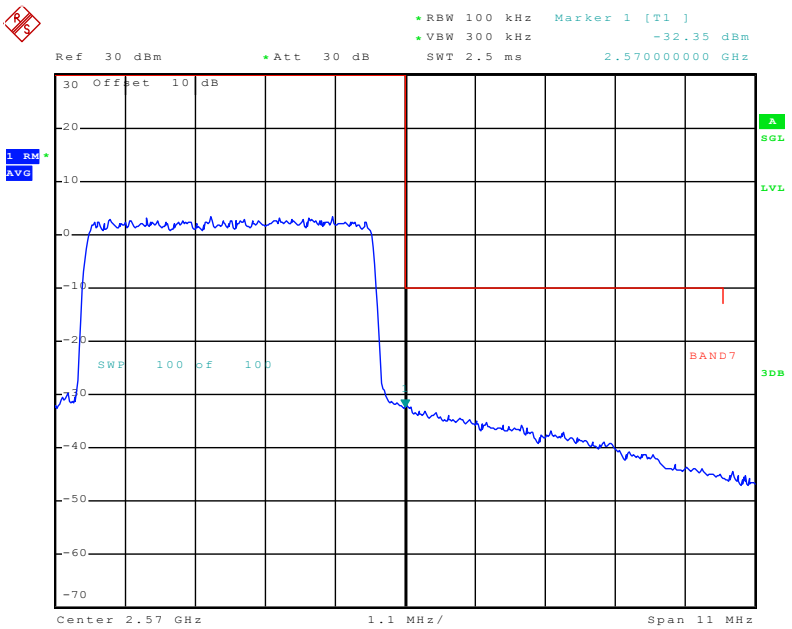
Highest channel

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



Date: 19.JAN.2015 10:48:32

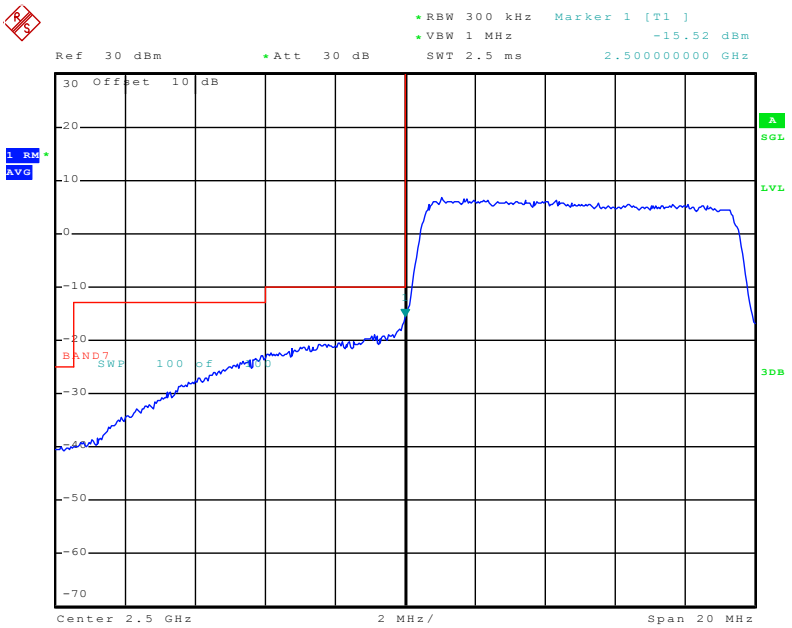
Lowest channel



Date: 19.JAN.2015 10:53:53

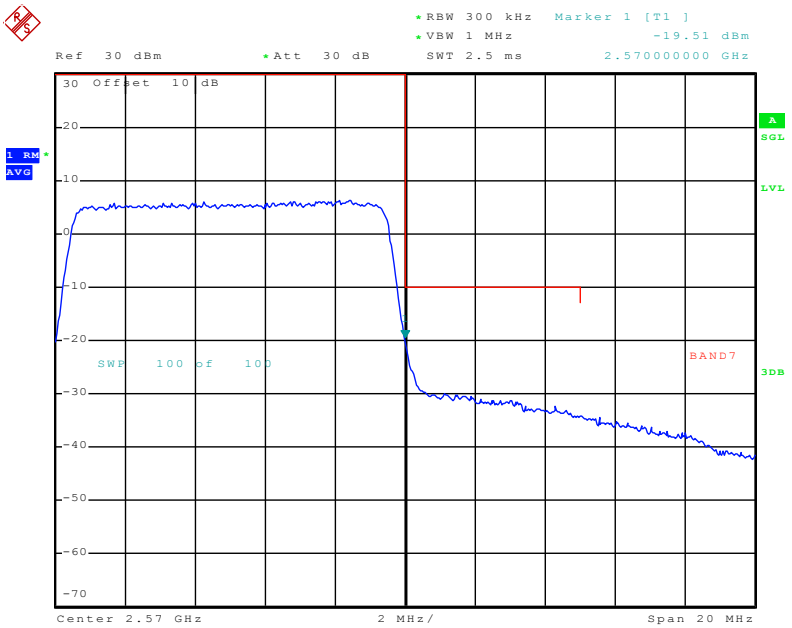
Highest channel

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



Date: 19.JAN.2015 10:48:54

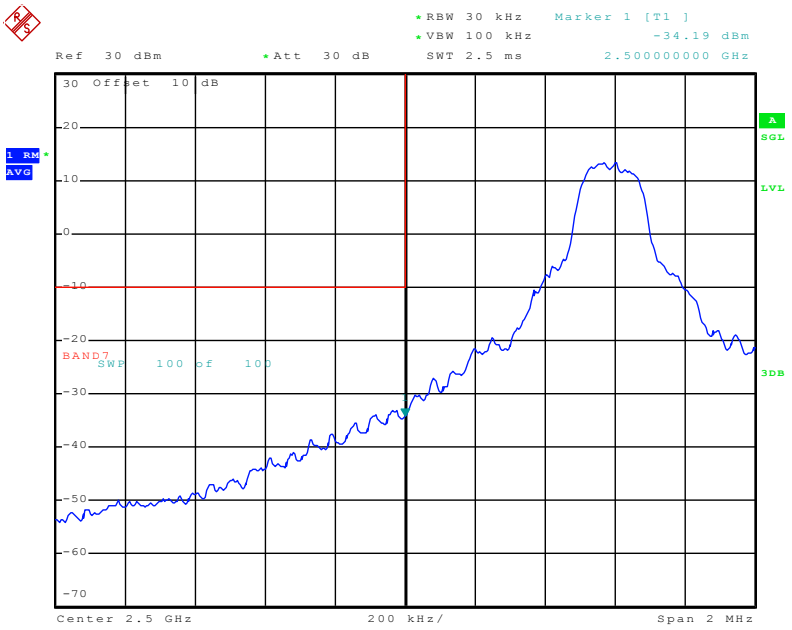
Lowest channel



Date: 19.JAN.2015 10:54:13

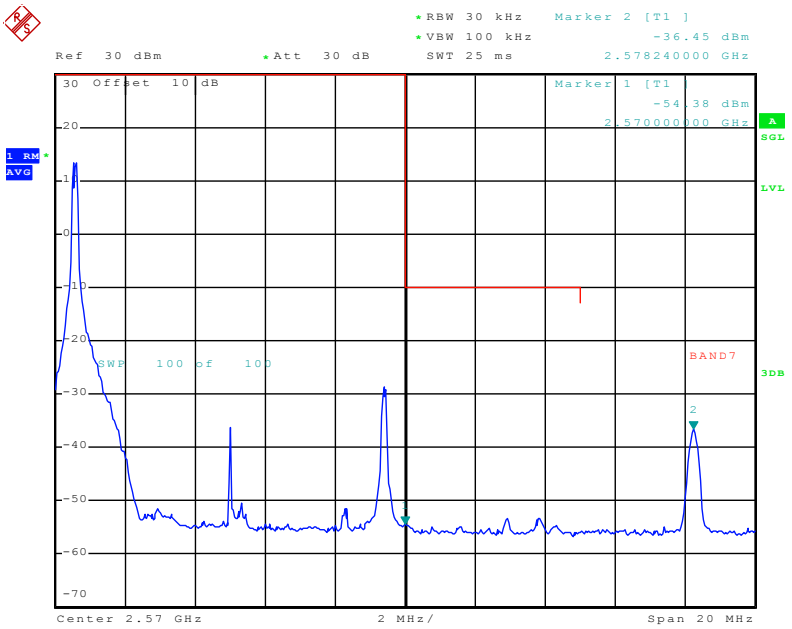
Highest channel

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



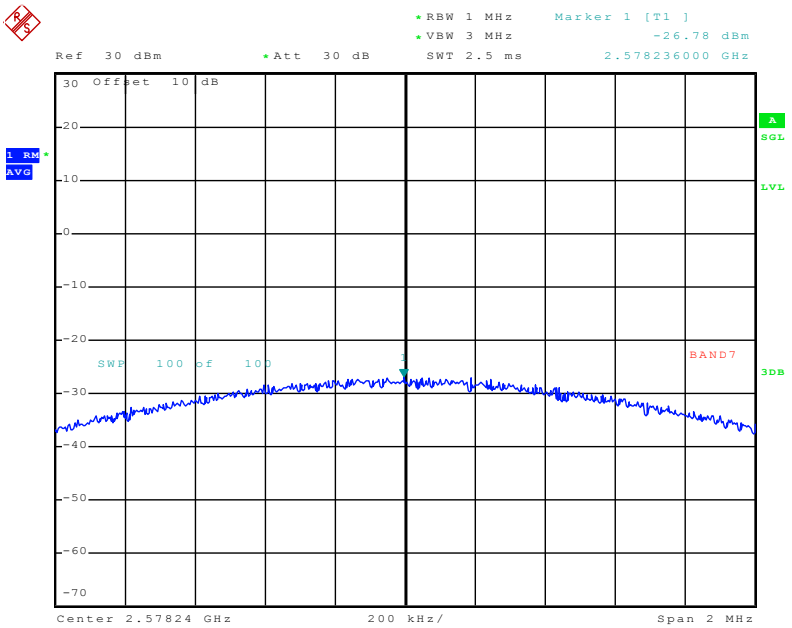
Date: 19.JAN.2015 10:43:51

Lowest channel



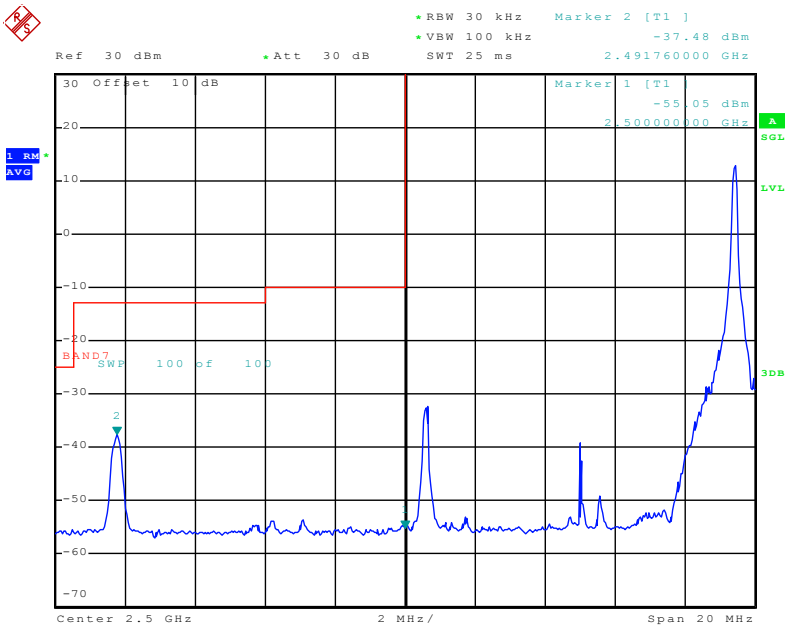
Date: 19.JAN.2015 10:49:34

Highest channel



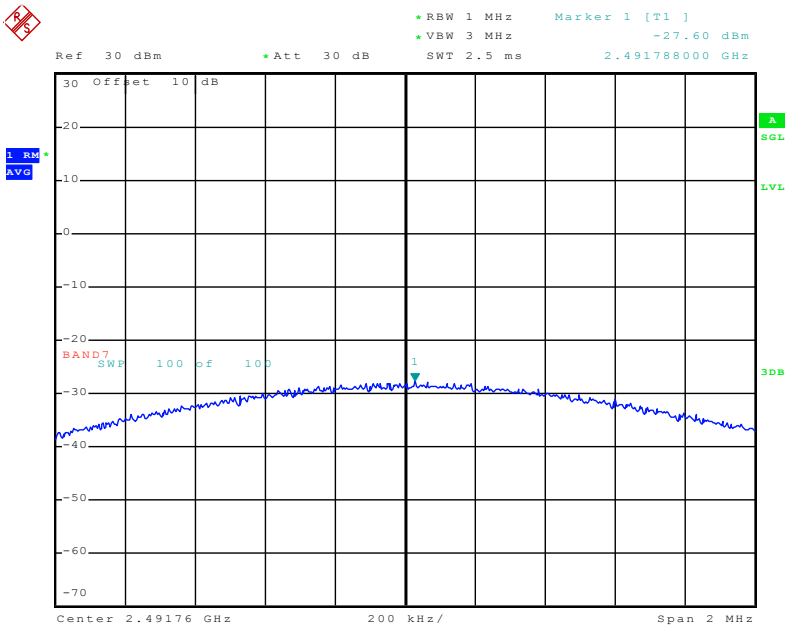
Date: 19.JAN.2015 10:49:55

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

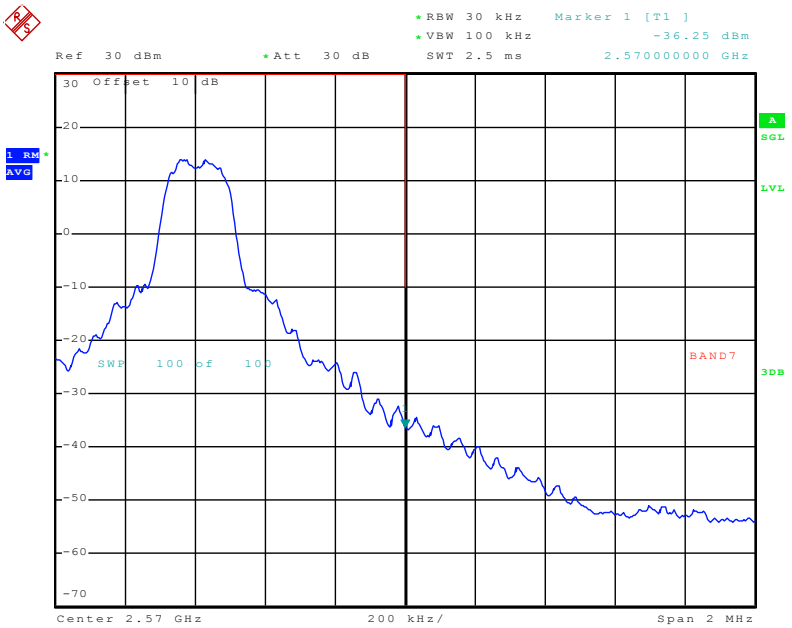


Date: 19.JAN.2015 10:44:23

Lowest channel



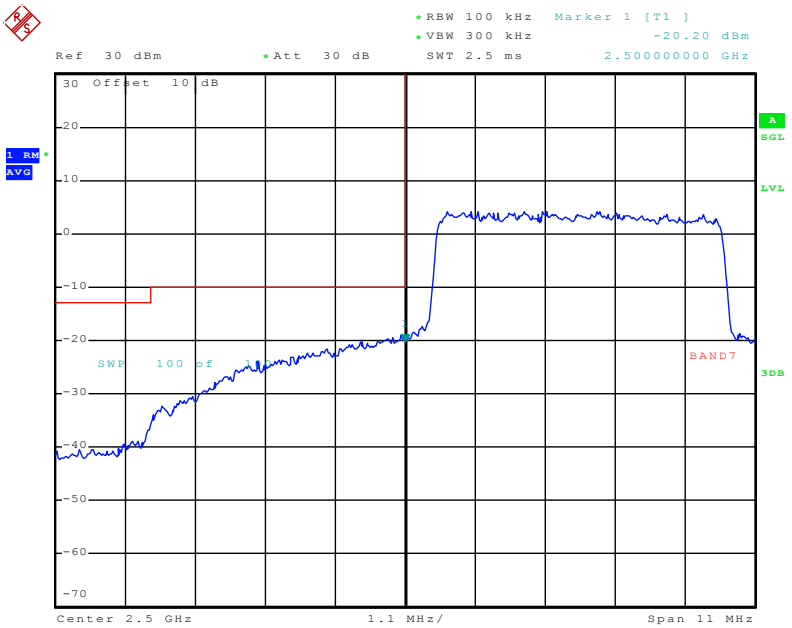
Date: 19.JAN.2015 10:44:44



Date: 19.JAN.2015 10:50:49

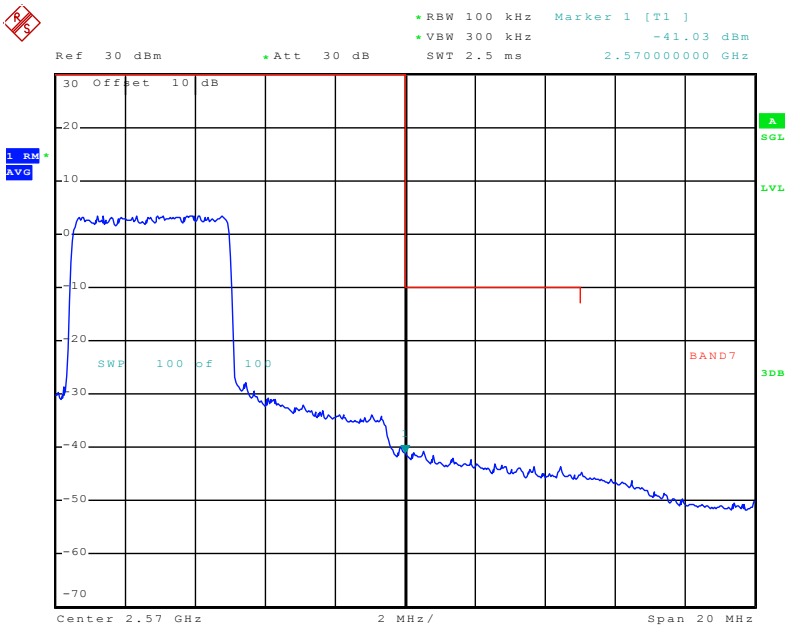
Highest channel

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



Date: 19.JAN.2015 10:45:29

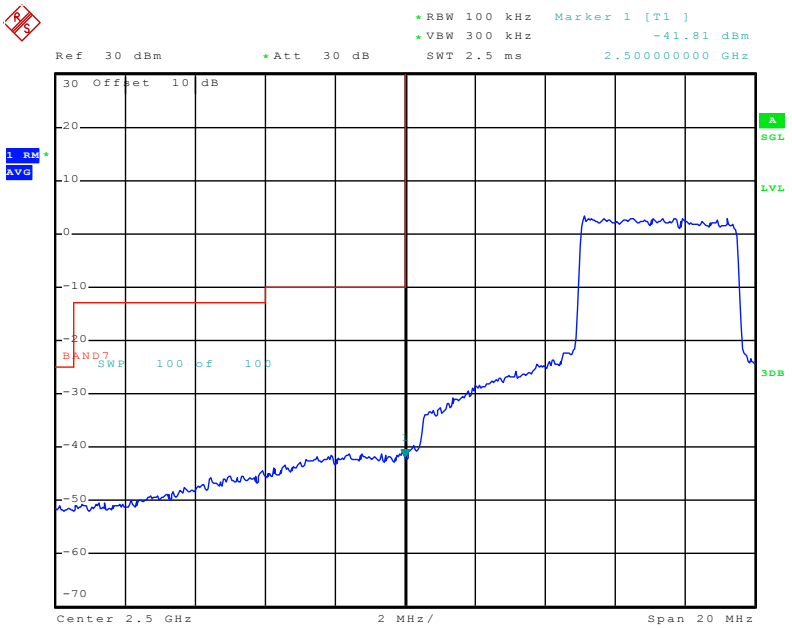
Lowest channel



Date: 19.JAN.2015 10:51:22

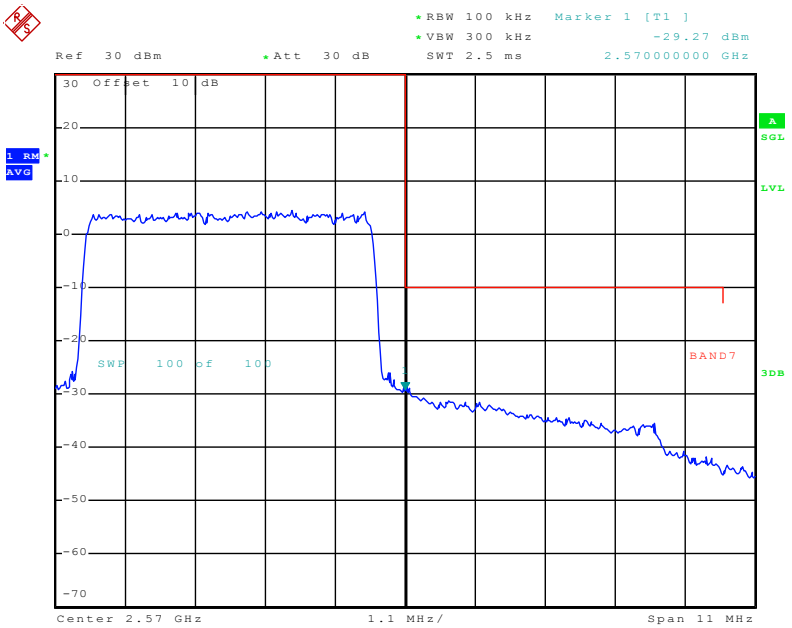
Highest channel

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



Date: 19.JAN.2015 10:45:43

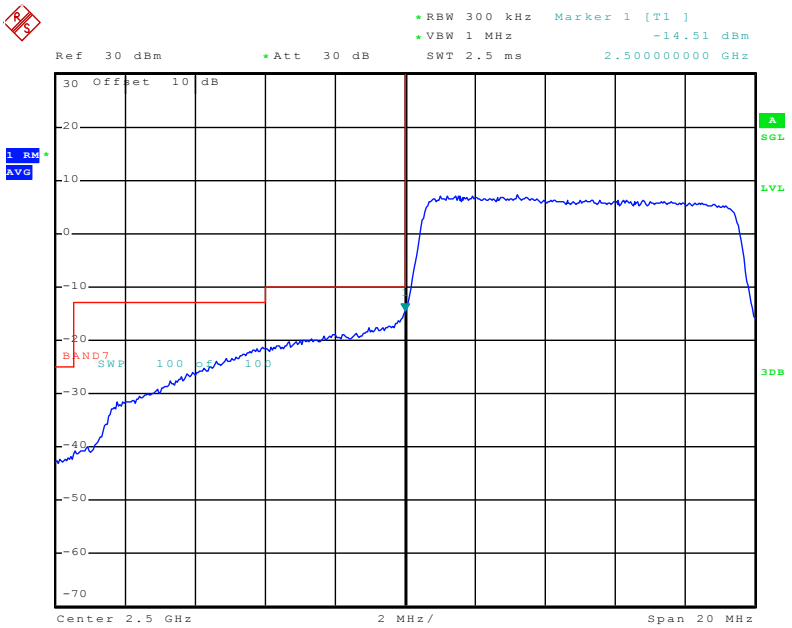
Lowest channel



Date: 19.JAN.2015 10:51:38

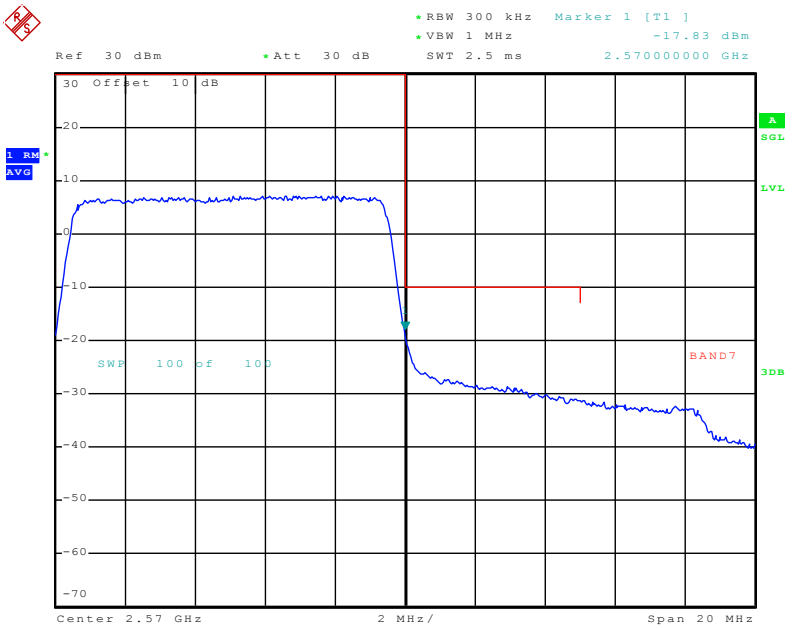
Highest channel

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



Date: 19.JAN.2015 10:46:11

Lowest channel

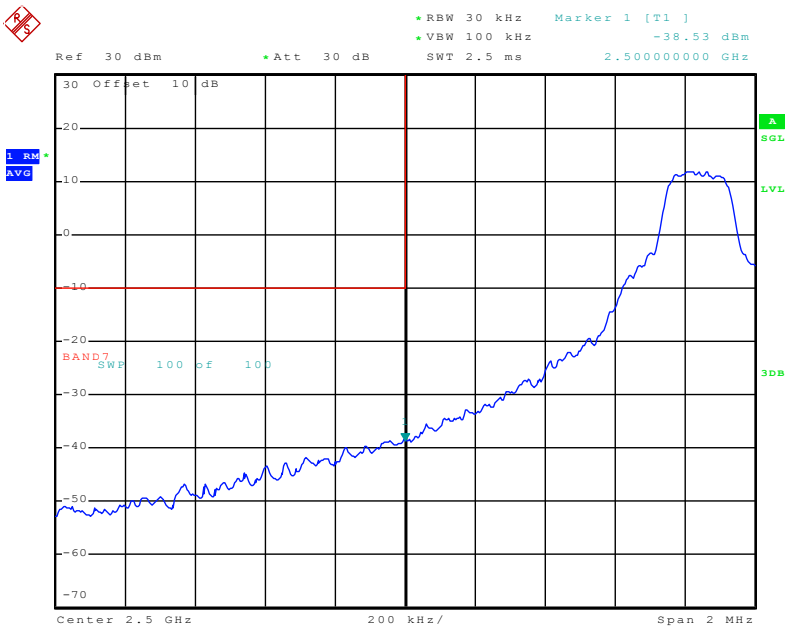


Date: 19.JAN.2015 10:52:02

Highest channel

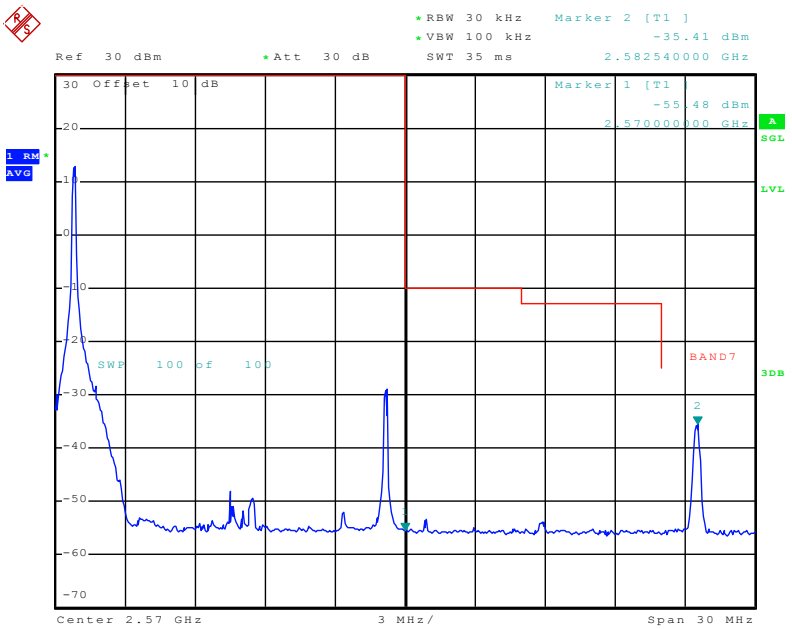
15MHz

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



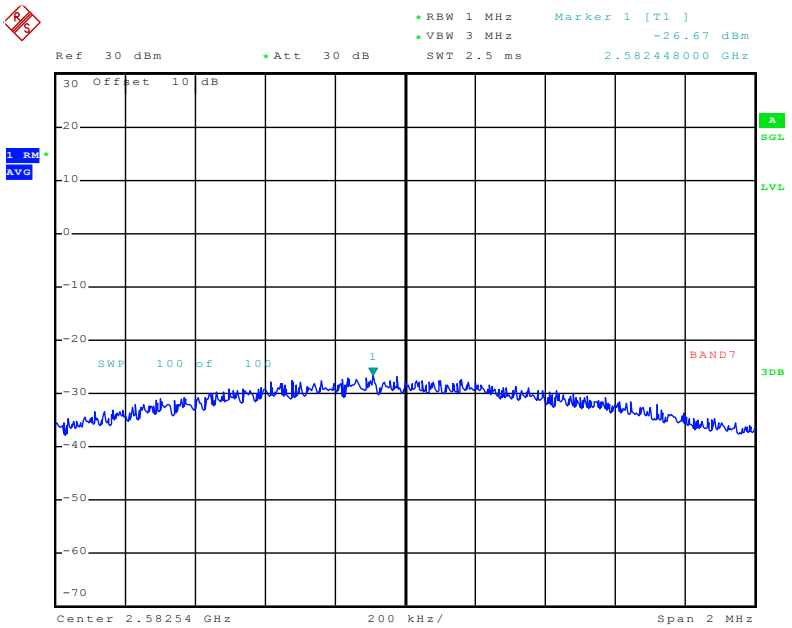
Date: 19.JAN.2015 11:03:59

Lowest channel



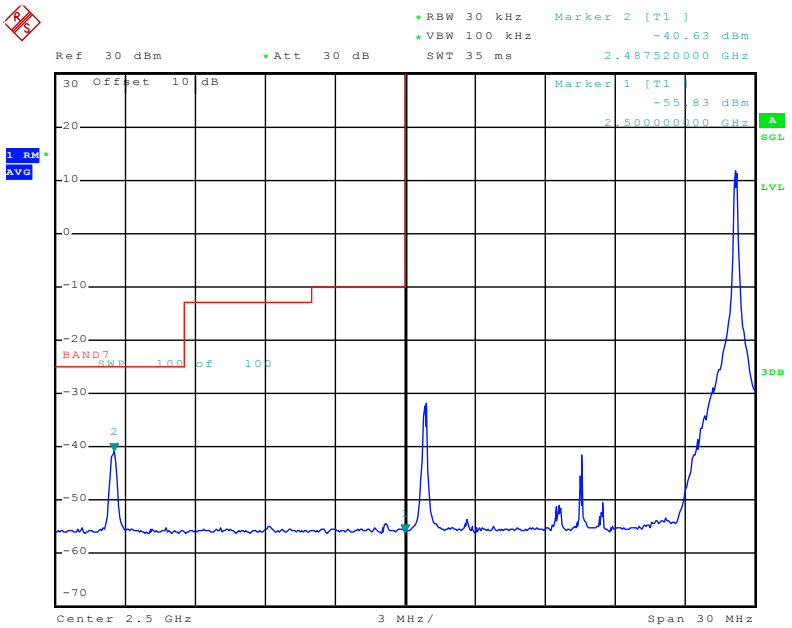
Date: 19.JAN.2015 11:13:17

Highest channel



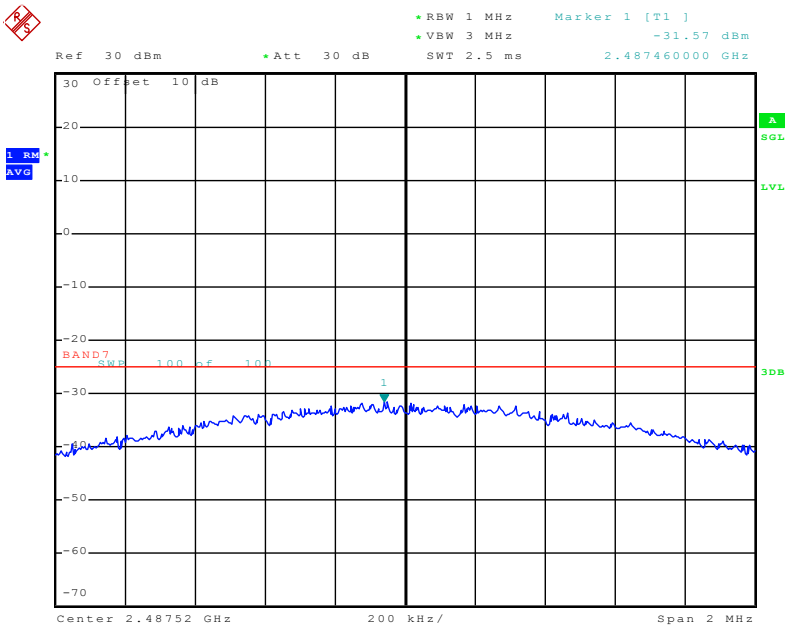
Date: 19.JAN.2015 11:13:50

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

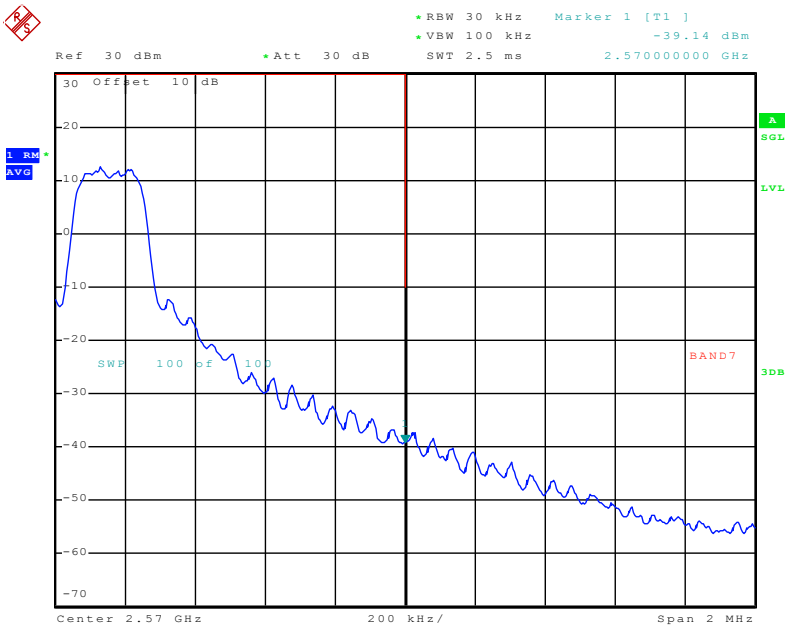


Date: 19.JAN.2015 11:04:32

Lowest channel



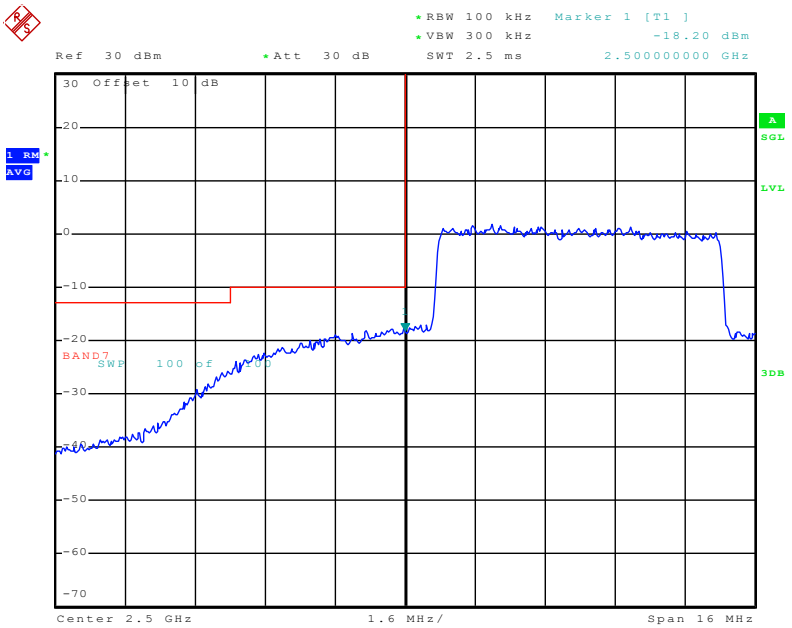
Date: 19.JAN.2015 11:04:55



Date: 19.JAN.2015 11:14:37

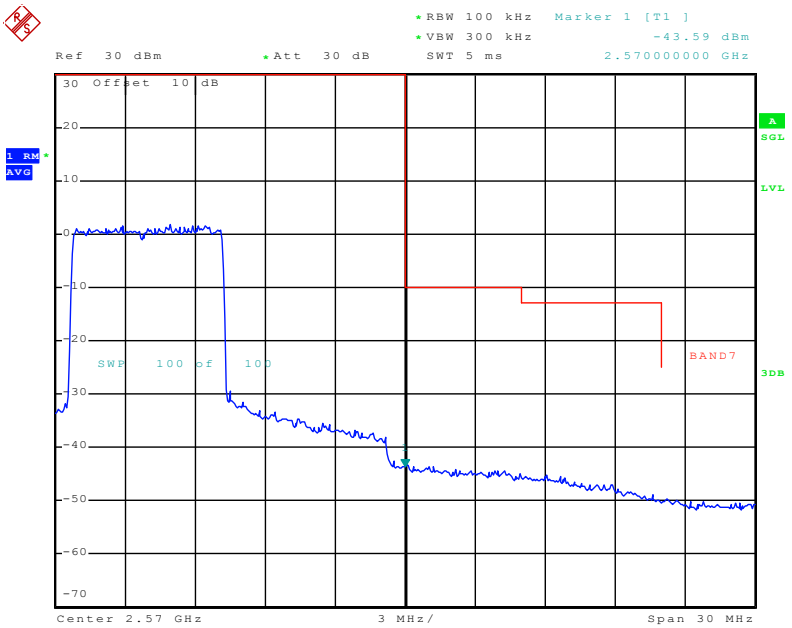
Highest channel

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



Date: 19.JAN.2015 11:05:39

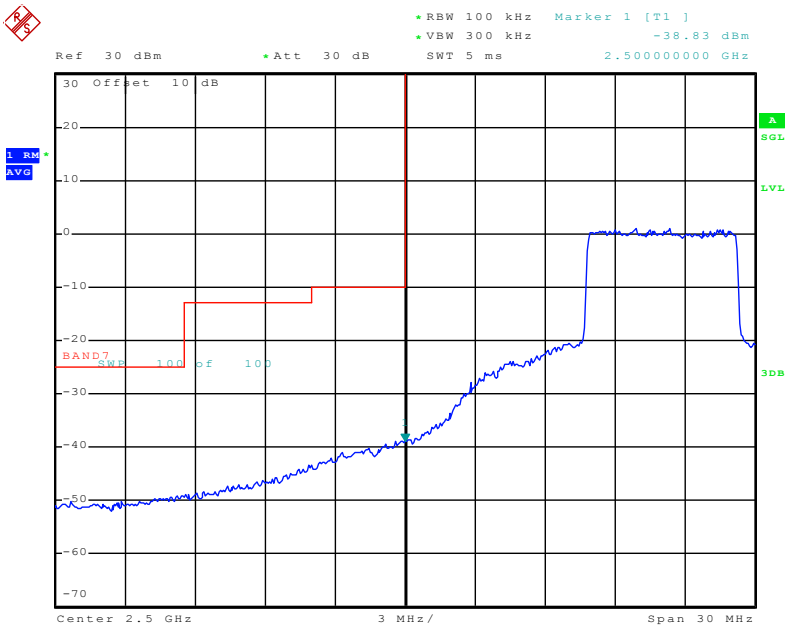
Lowest channel



Date: 19.JAN.2015 11:15:26

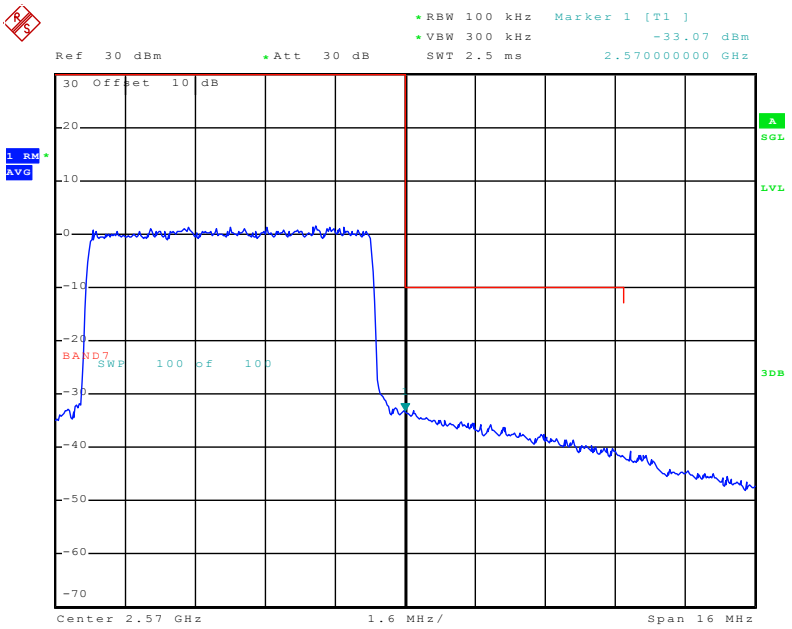
Highest channel

Test Mode: LTE band 7(16QAM RB Size 36 & RB Offset 35)



Date: 19.JAN.2015 11:05:53

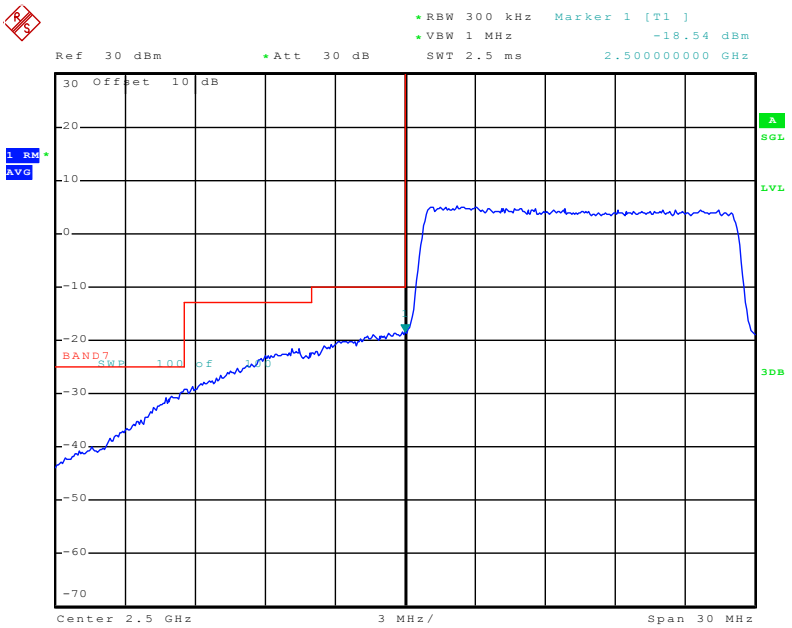
Lowest channel



Date: 19.JAN.2015 11:15:48

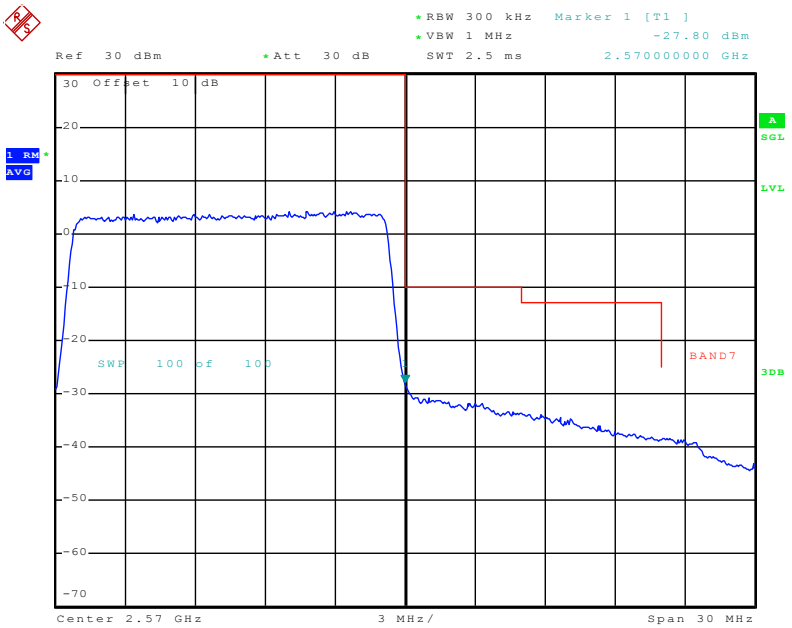
Highest channel

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



Date: 19.JAN.2015 11:09:25

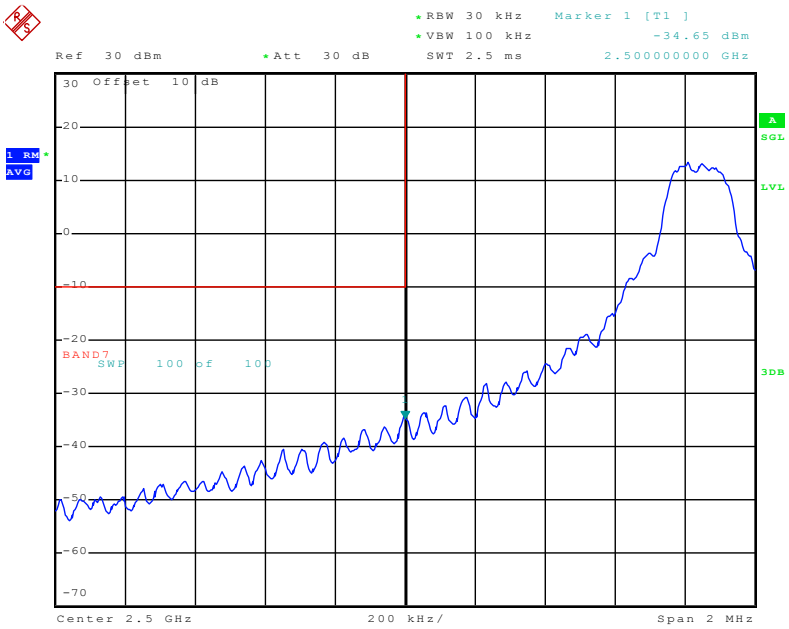
Lowest channel



Date: 19.JAN.2015 11:16:35

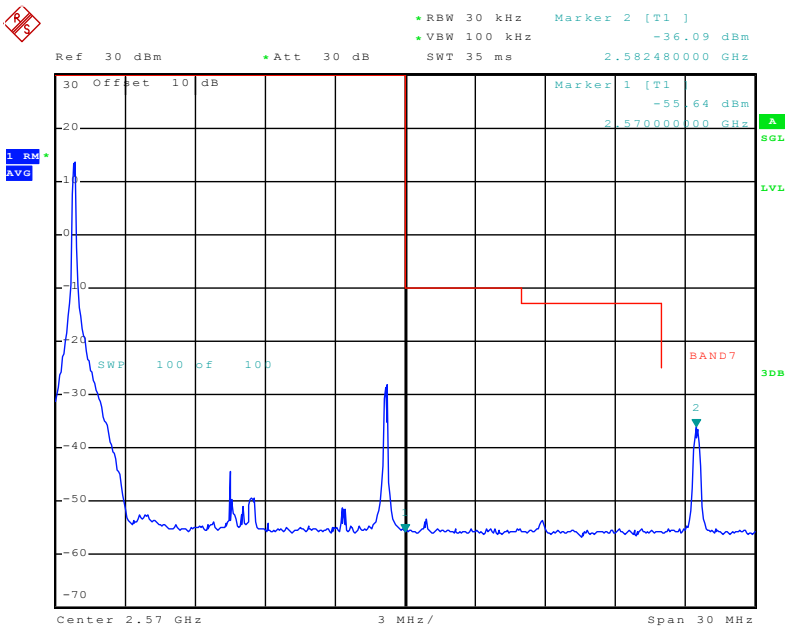
Highest channel

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



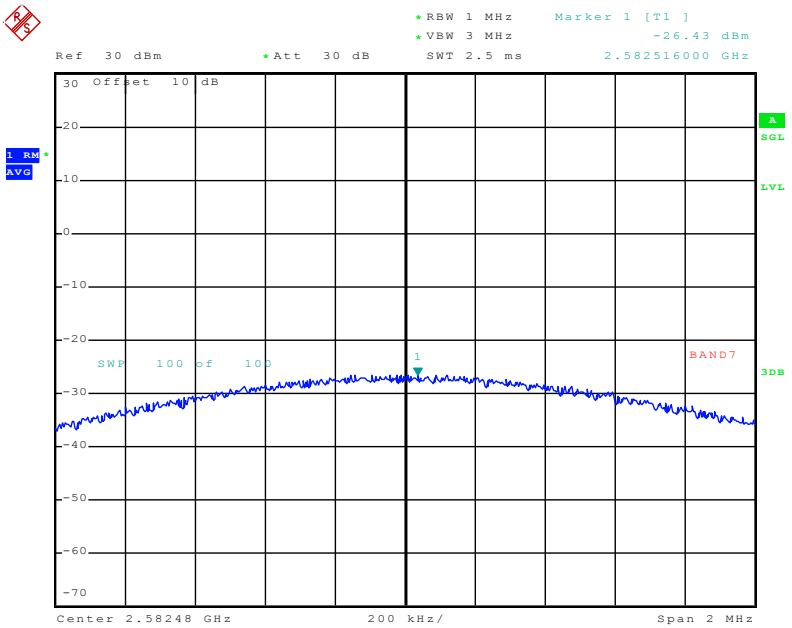
Date: 19.JAN.2015 11:00:32

Lowest channel



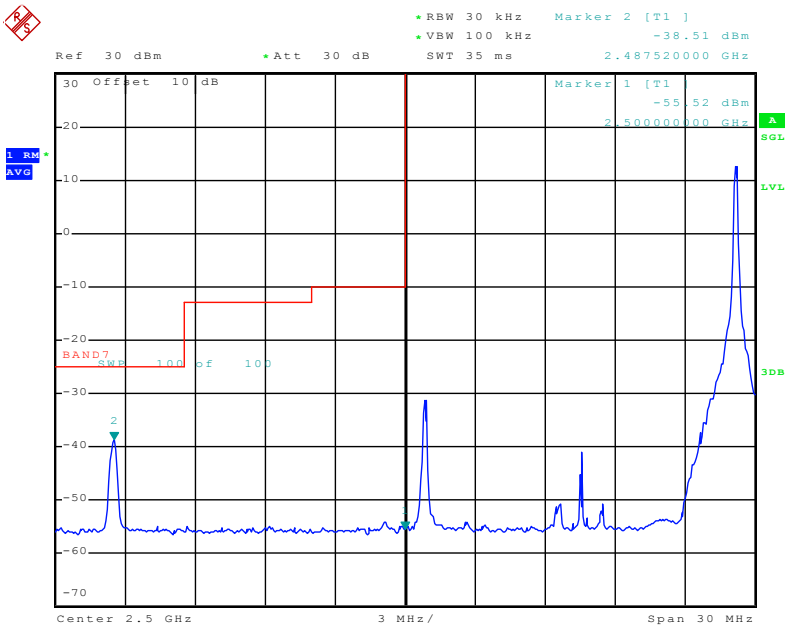
Date: 19.JAN.2015 11:10:32

Highest channel



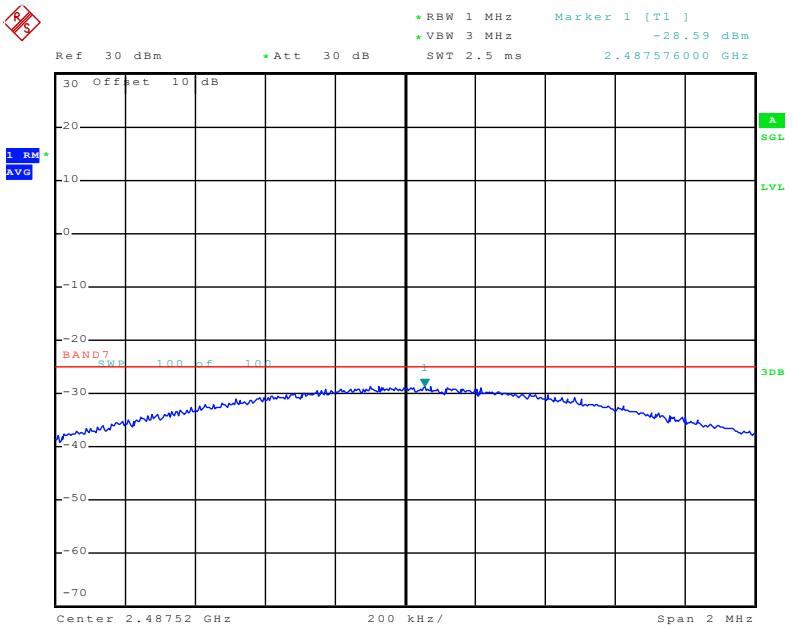
Date: 19.JAN.2015 11:10:57

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

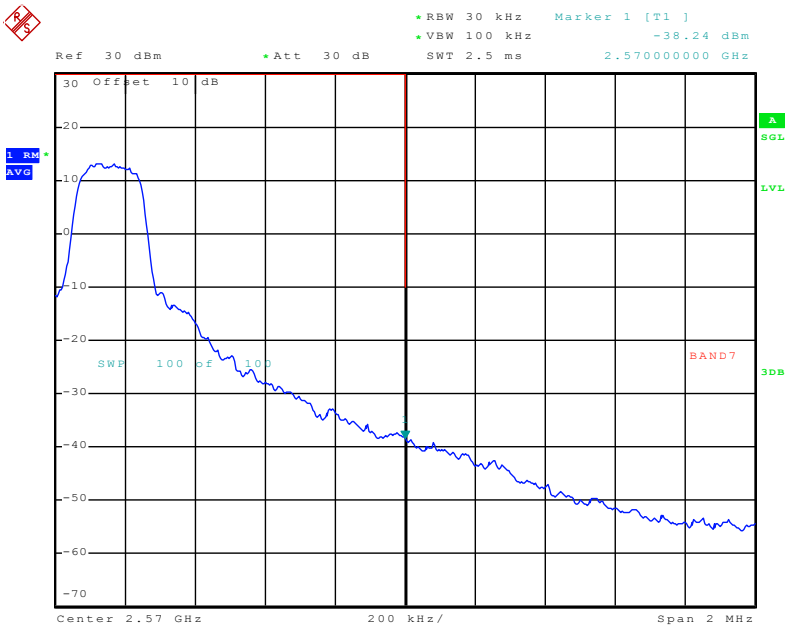


Date: 19.JAN.2015 11:01:08

Lowest channel



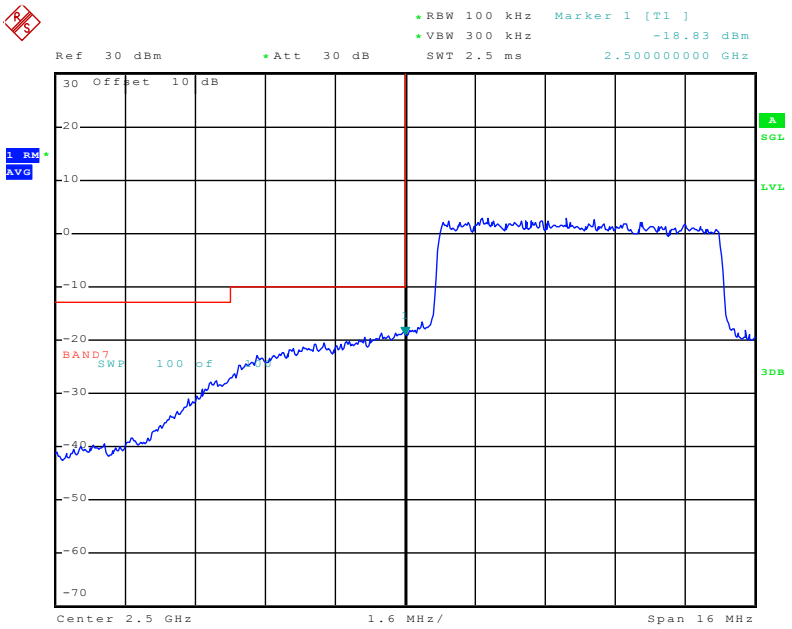
Date: 19.JAN.2015 11:01:44



Date: 19.JAN.2015 11:11:32

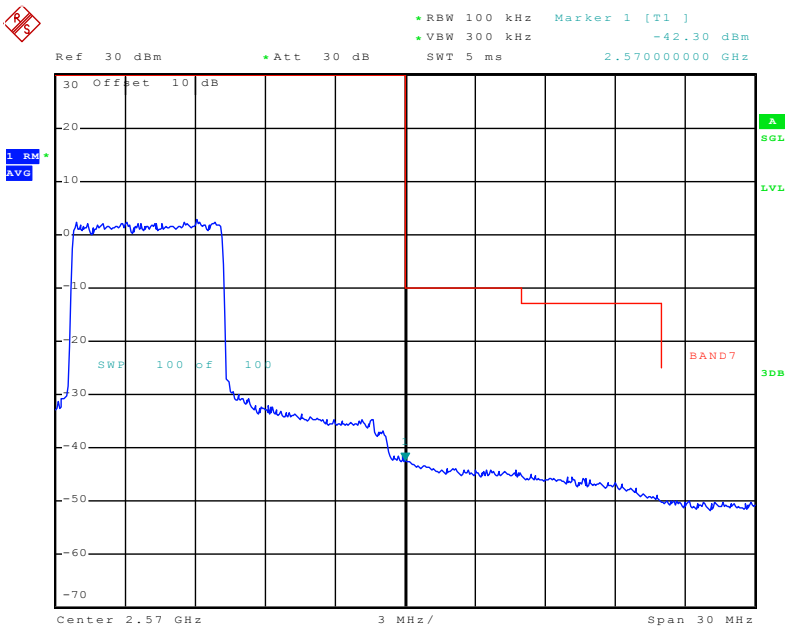
Highest channel

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



Date: 19.JAN.2015 11:02:28

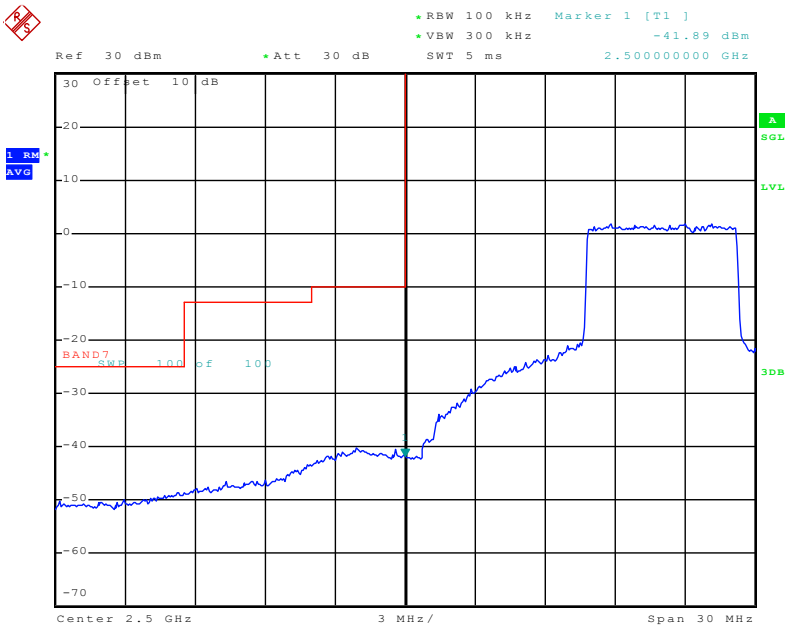
Lowest channel



Date: 19.JAN.2015 11:12:01

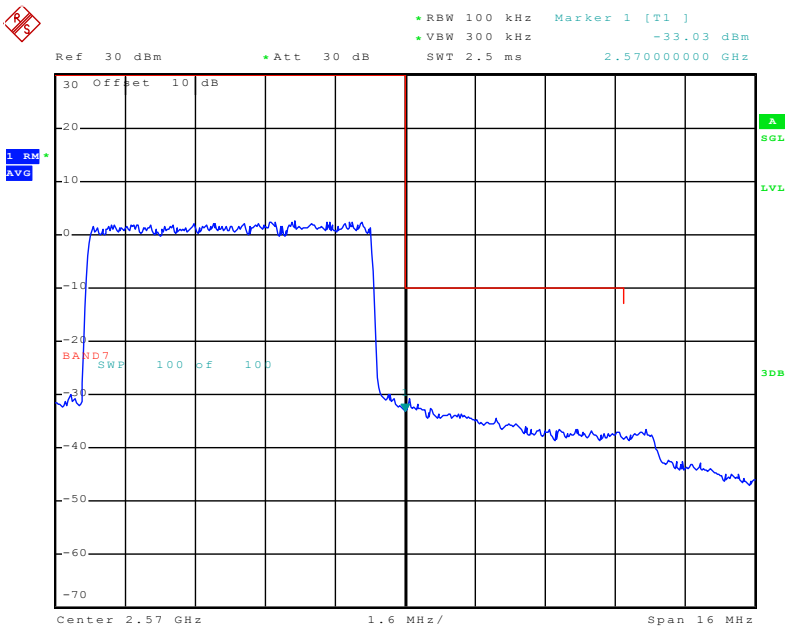
Highest channel

Test Mode: LTE band 7(QPSK RB Size 36 & RB Offset 35)



Date: 19.JAN.2015 11:02:44

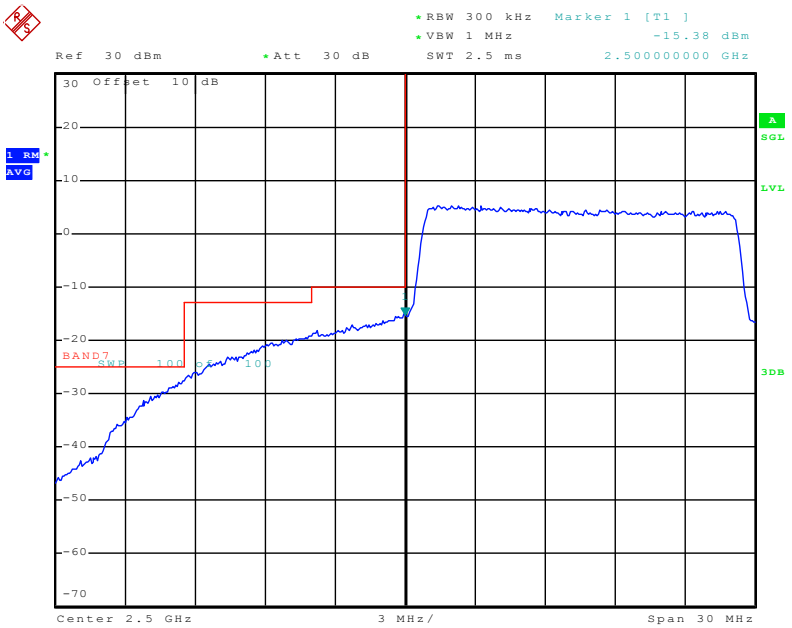
Lowest channel



Date: 19.JAN.2015 11:12:25

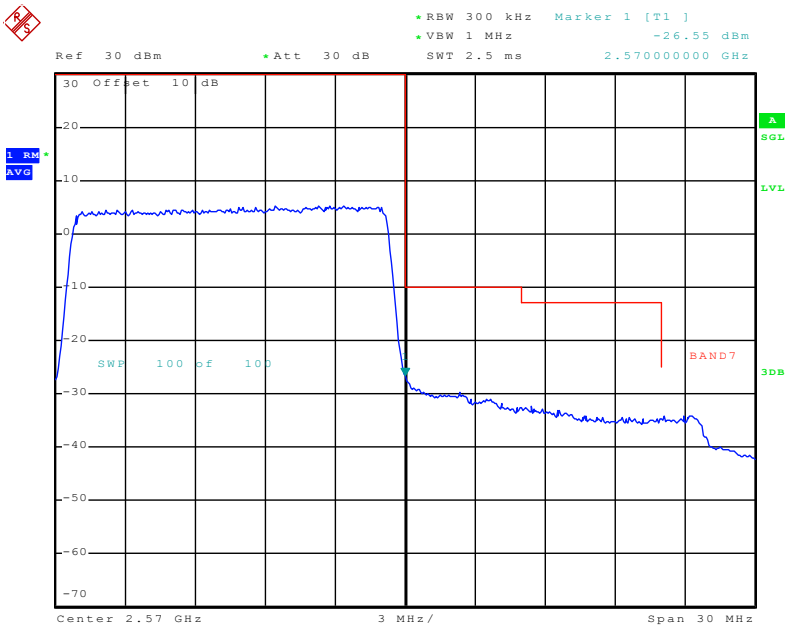
Highest channel

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



Date: 19.JAN.2015 11:03:25

Lowest channel

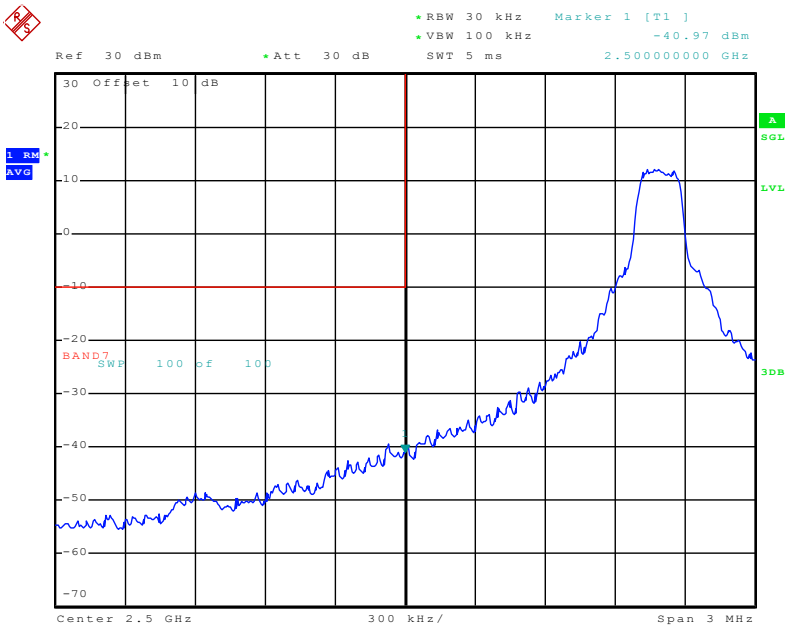


Date: 19.JAN.2015 11:12:49

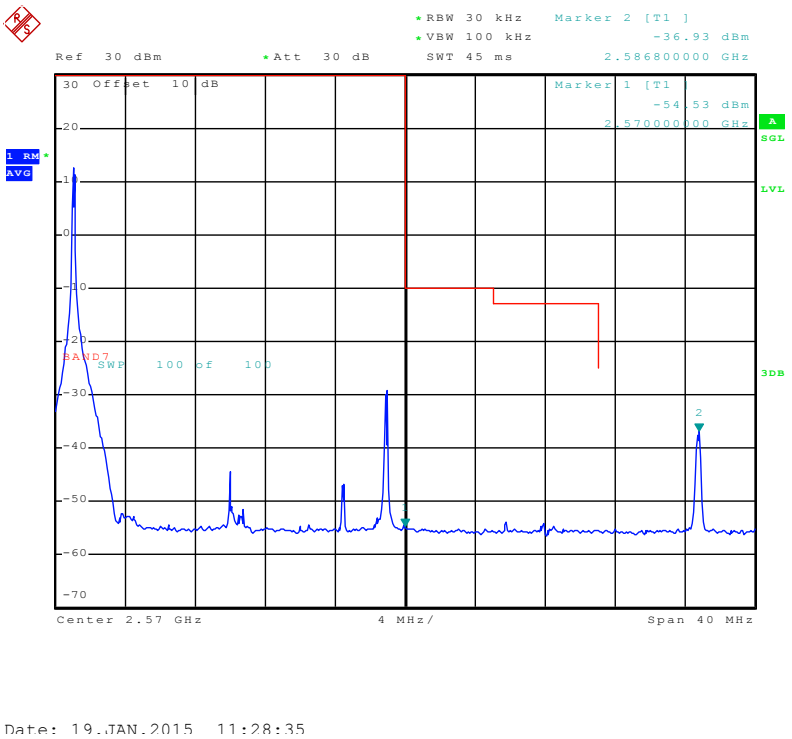
Highest channel

20MHz

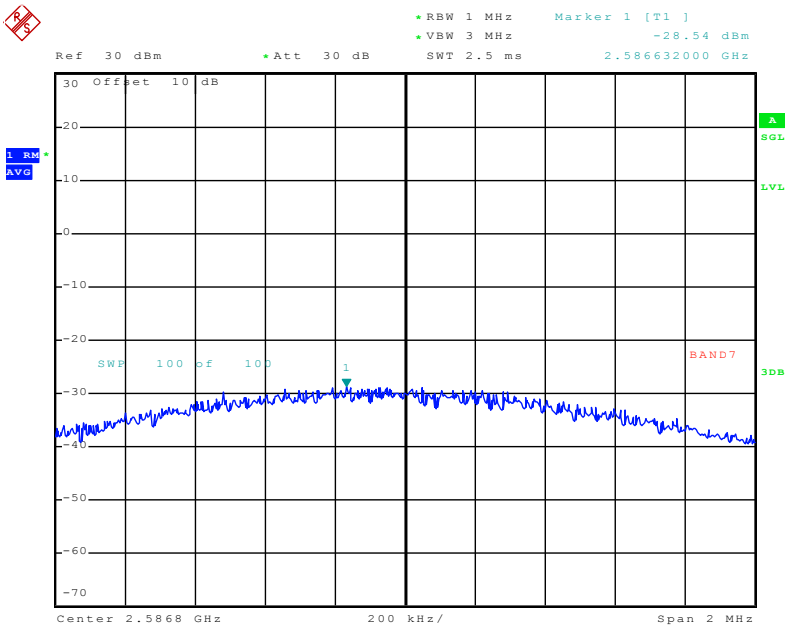
Test Mode: LTE band 7(16QAM RB Size 1 & RB Offset 0)



Lowest channel

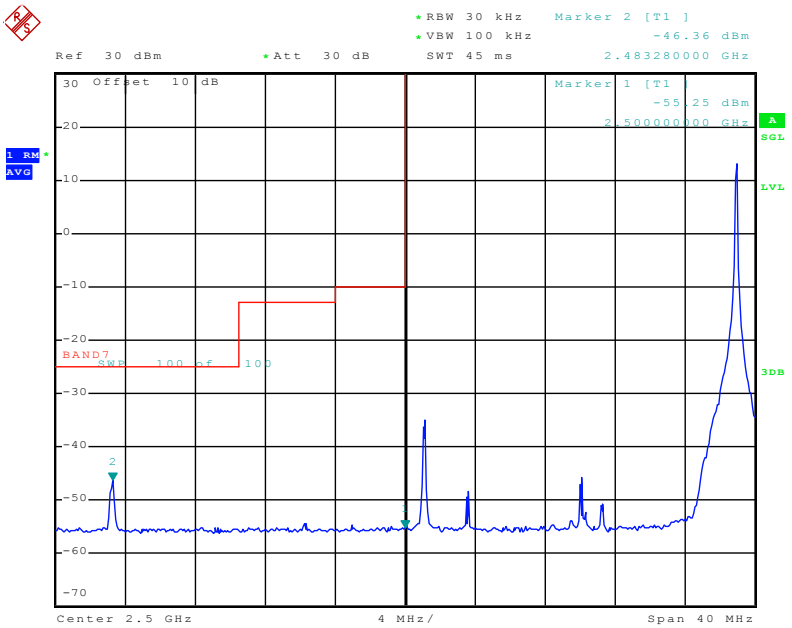


Highest channel



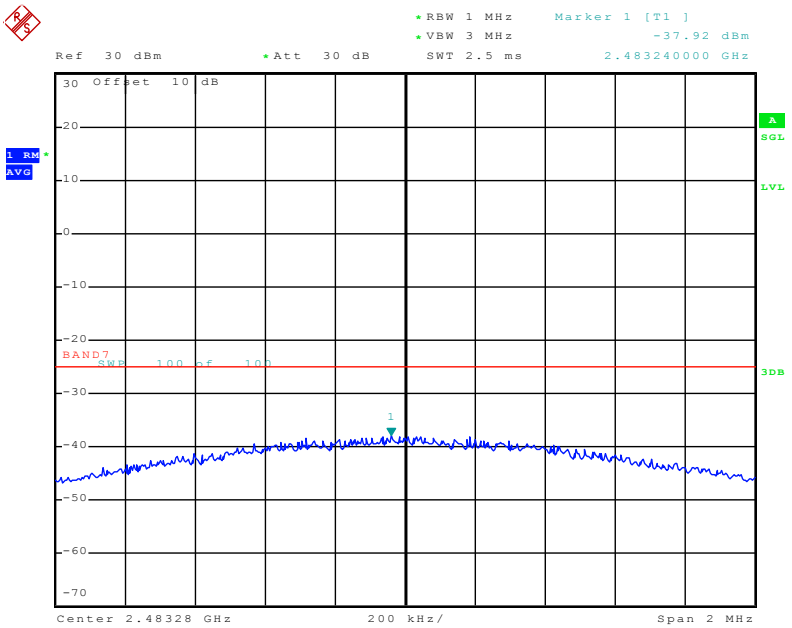
Date: 19.JAN.2015 11:29:00

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

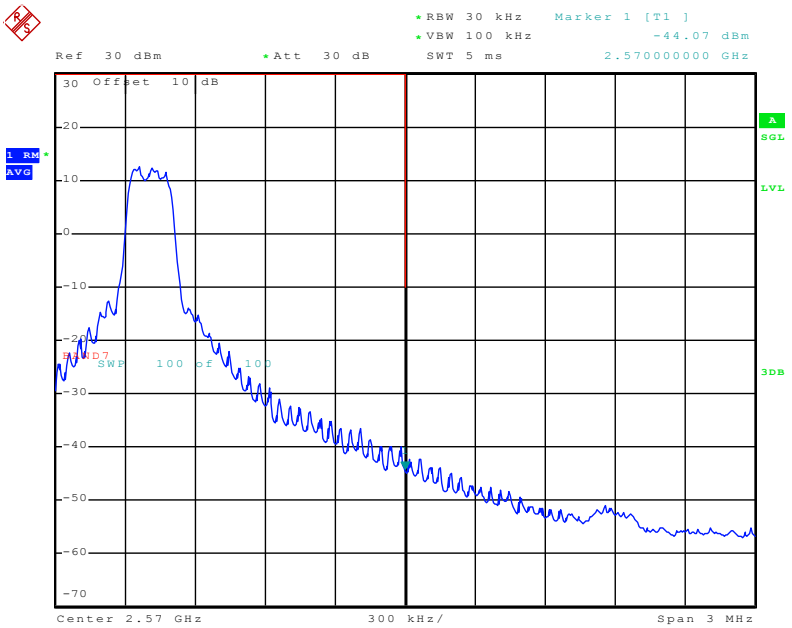


Date: 19.JAN.2015 11:22:38

Lowest channel



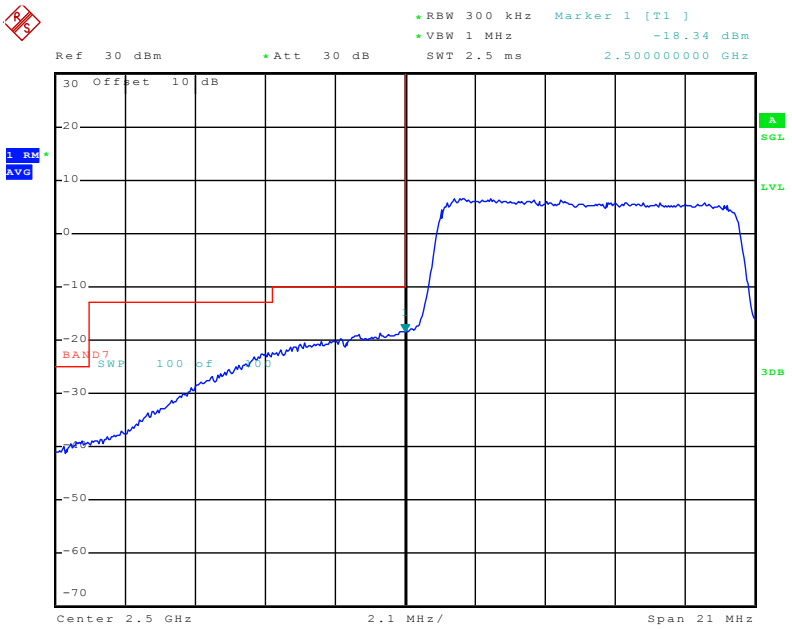
Date: 19.JAN.2015 11:23:00



Date: 19.JAN.2015 11:29:31

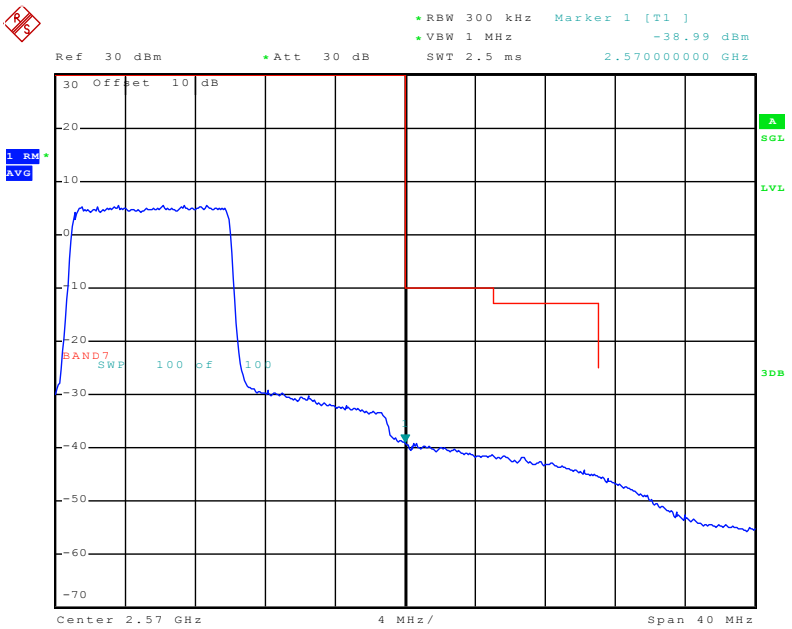
Highest channel

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



Date: 19.JAN.2015 11:23:49

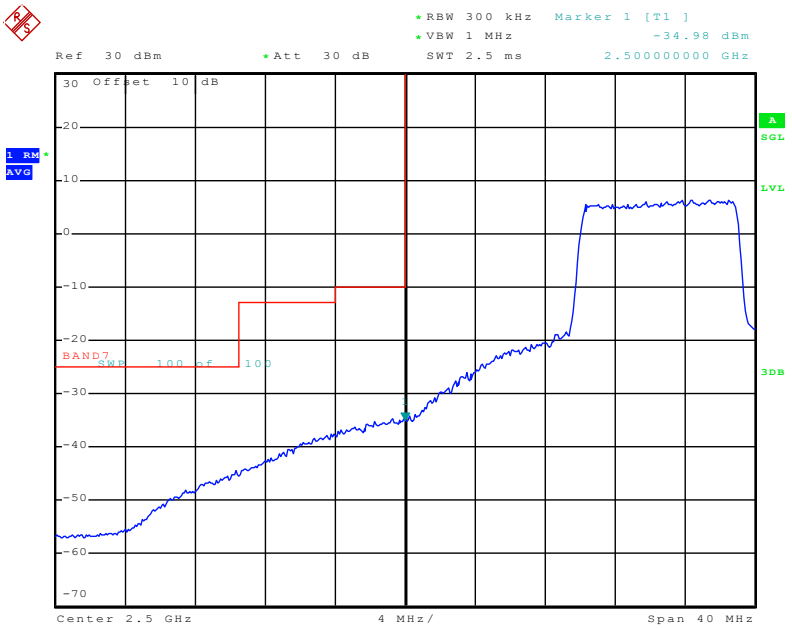
Lowest channel



Date: 19.JAN.2015 11:30:07

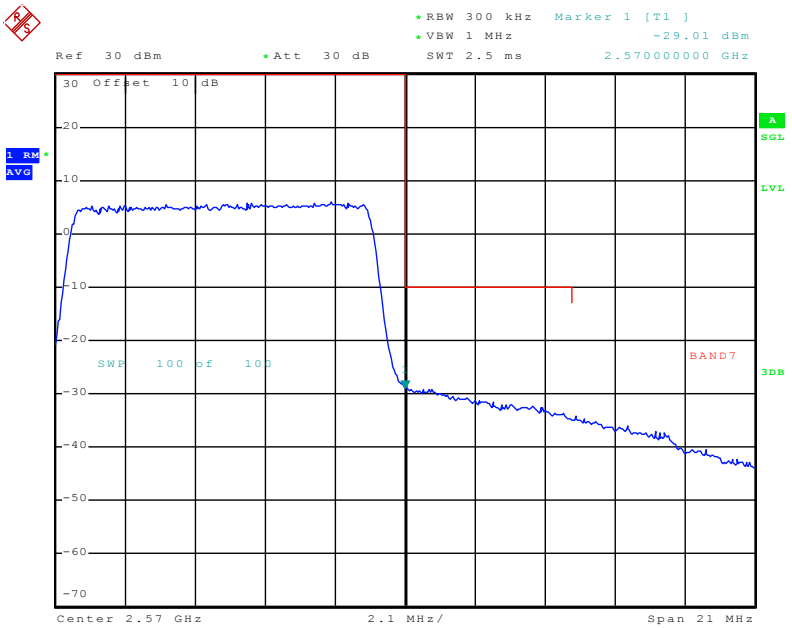
Highest channel

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



Date: 19.JAN.2015 11:24:07

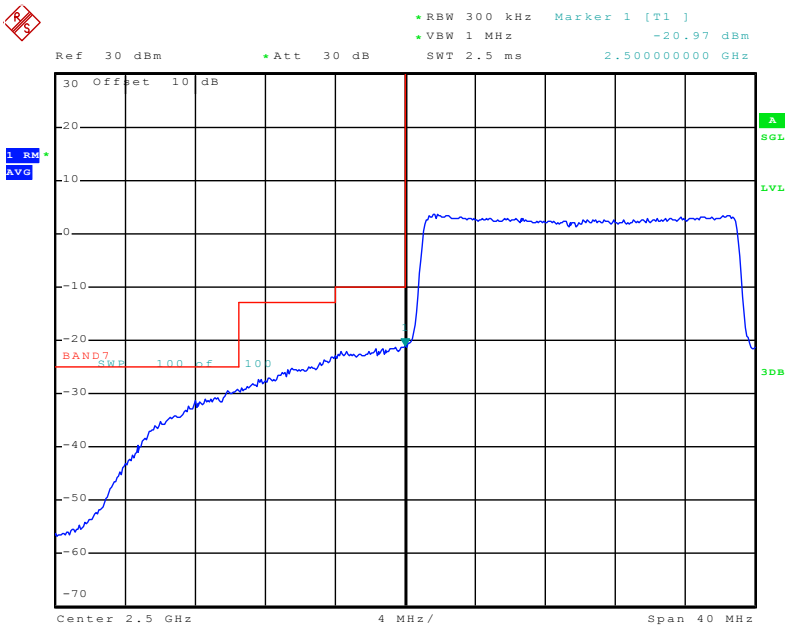
Lowest channel



Date: 19.JAN.2015 11:30:25

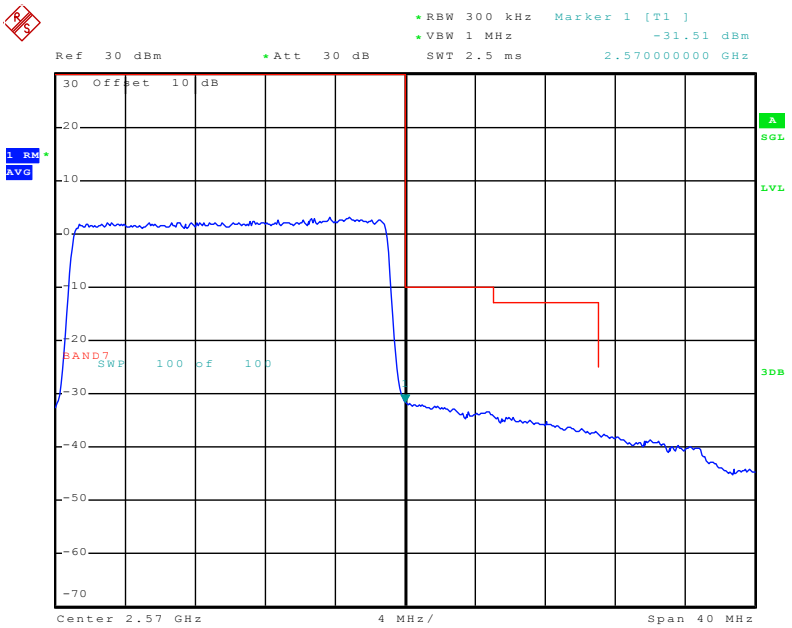
Highest channel

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



Date: 19.JAN.2015 11:24:27

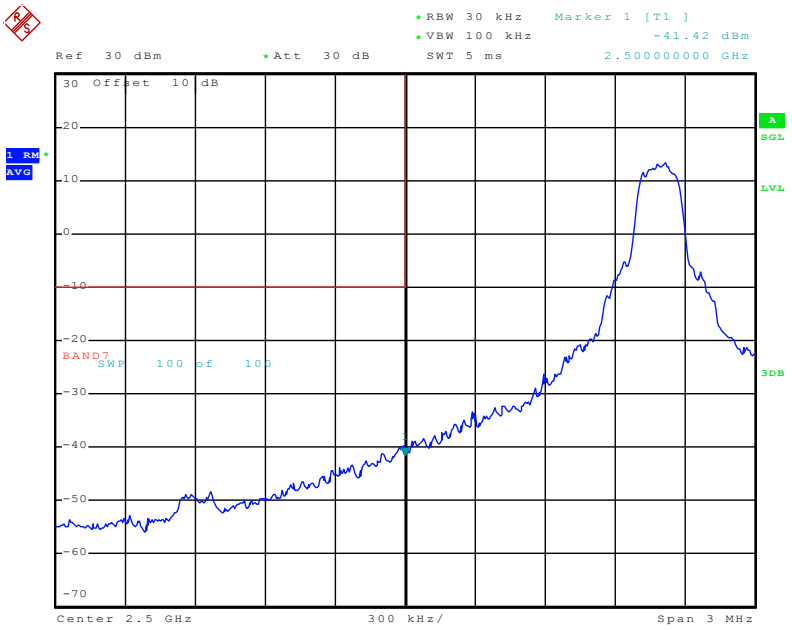
Lowest channel



Date: 19.JAN.2015 11:30:45

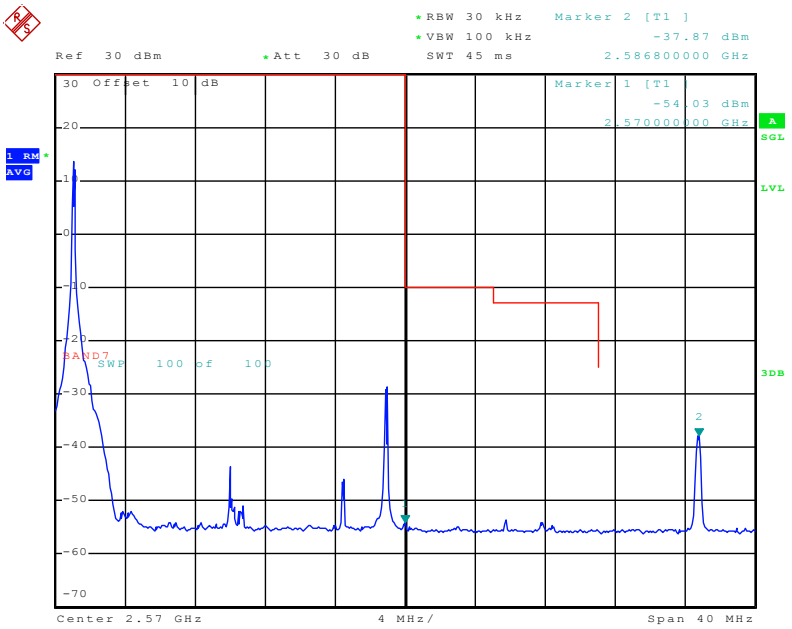
Highest channel

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



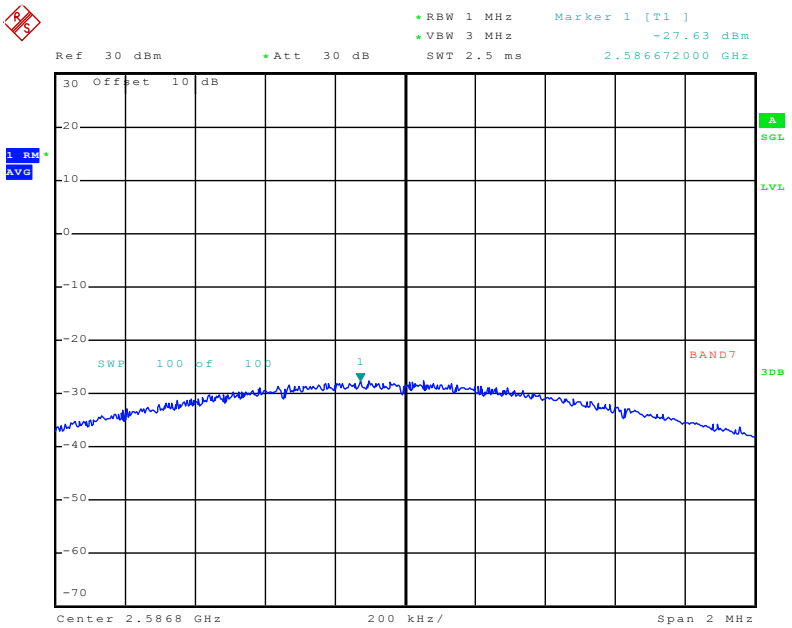
Date: 19.JAN.2015 11:18:08

Lowest channel



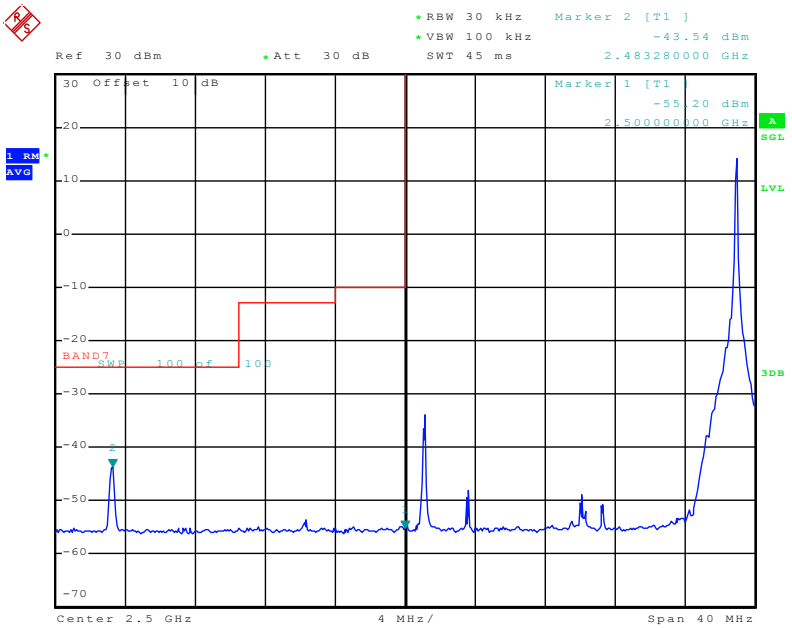
Date: 19.JAN.2015 11:25:29

Highest channel



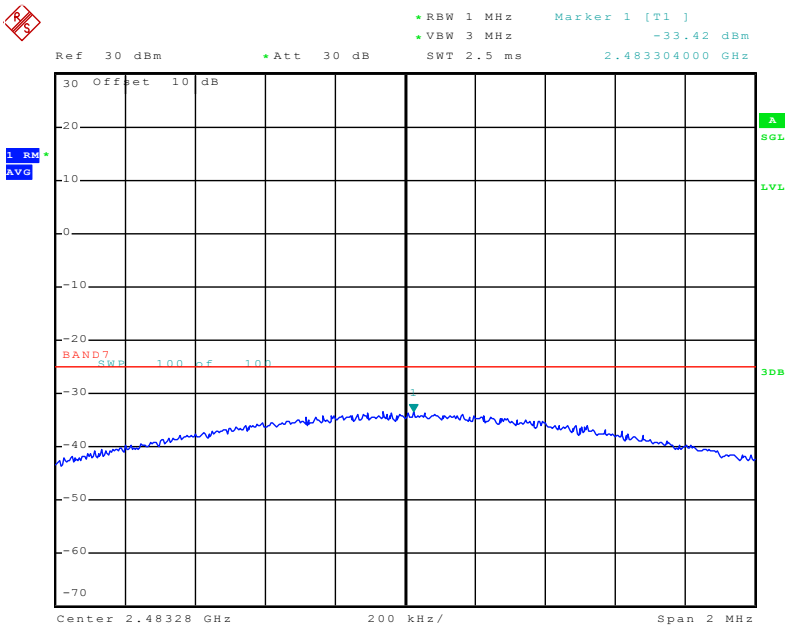
Date: 19.JAN.2015 11:25:54

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

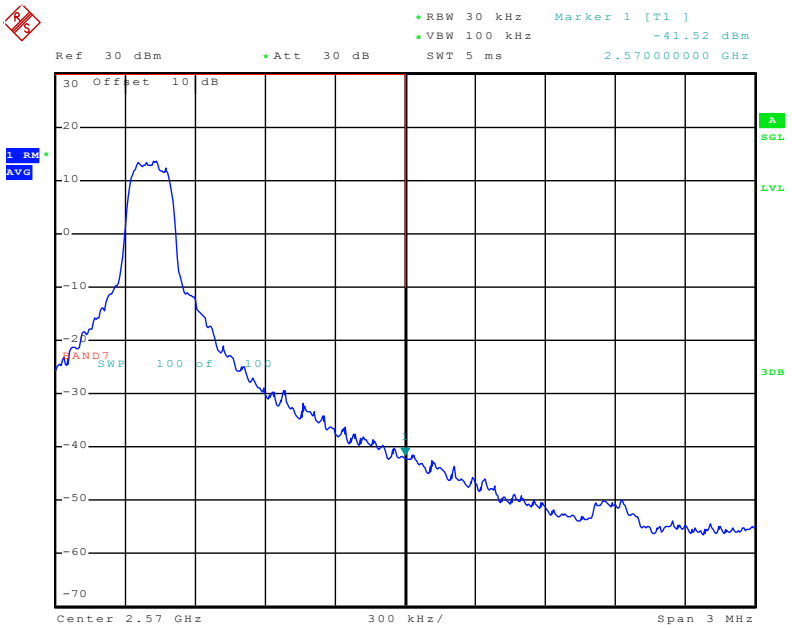


Date: 19.JAN.2015 11:18:48

Lowest channel



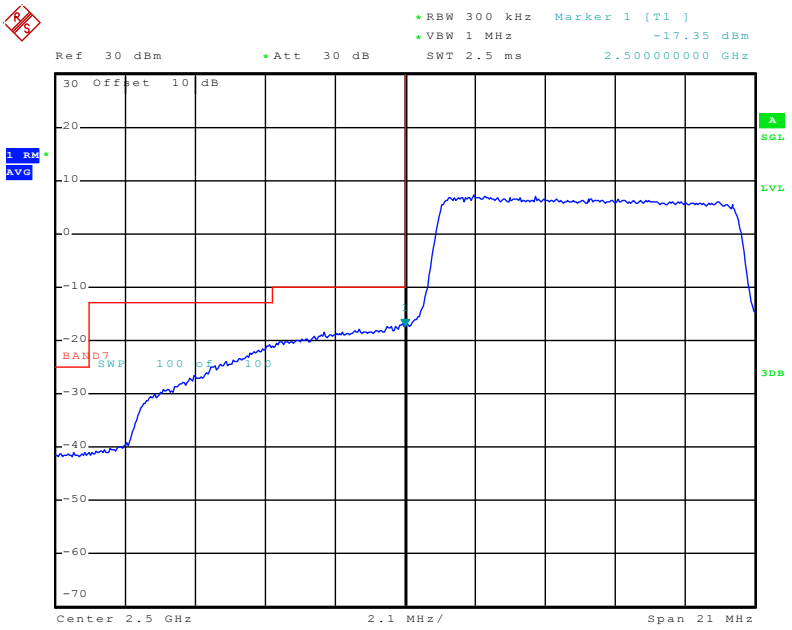
Date: 19.JAN.2015 11:19:10



Date: 19.JAN.2015 11:26:40

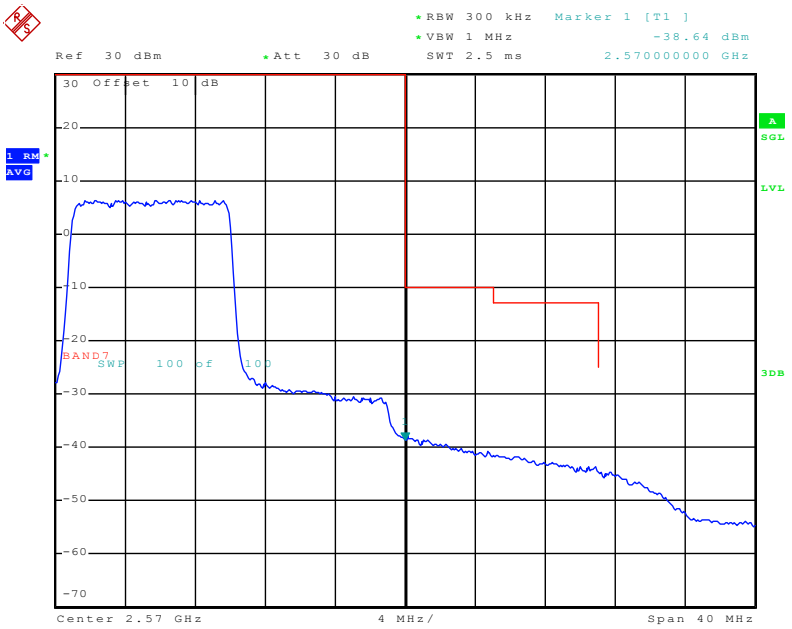
Highest channel

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



Date: 19.JAN.2015 11:20:39

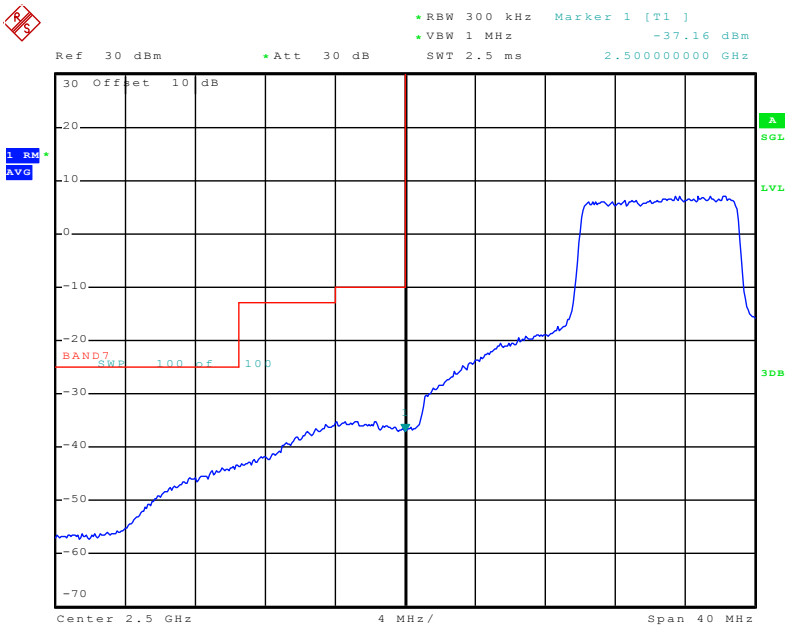
Lowest channel



Date: 19.JAN.2015 11:27:15

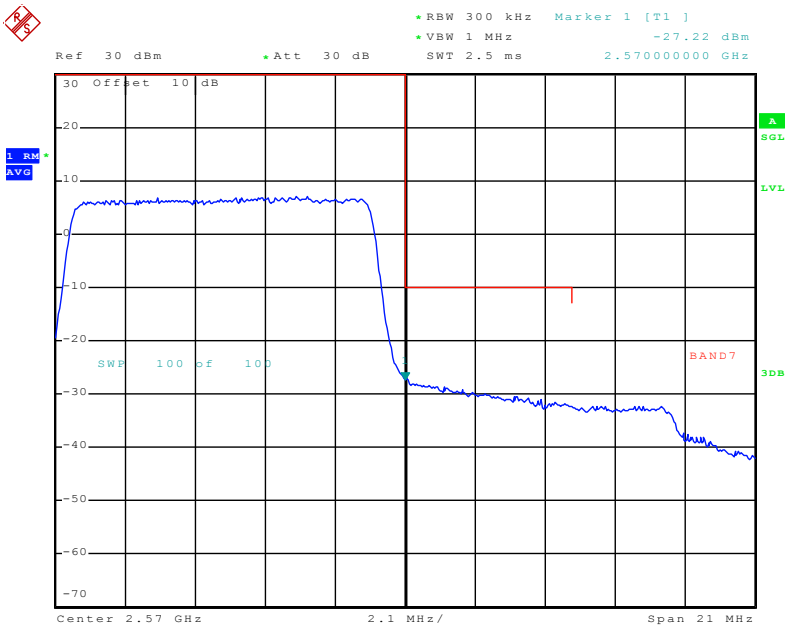
Highest channel

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



Date: 19.JAN.2015 11:21:15

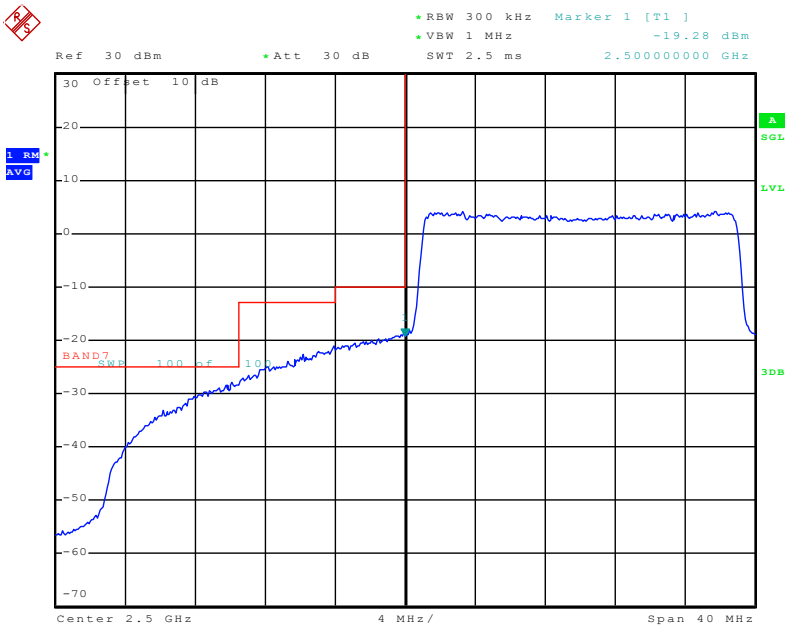
Lowest channel



Date: 19.JAN.2015 11:27:33

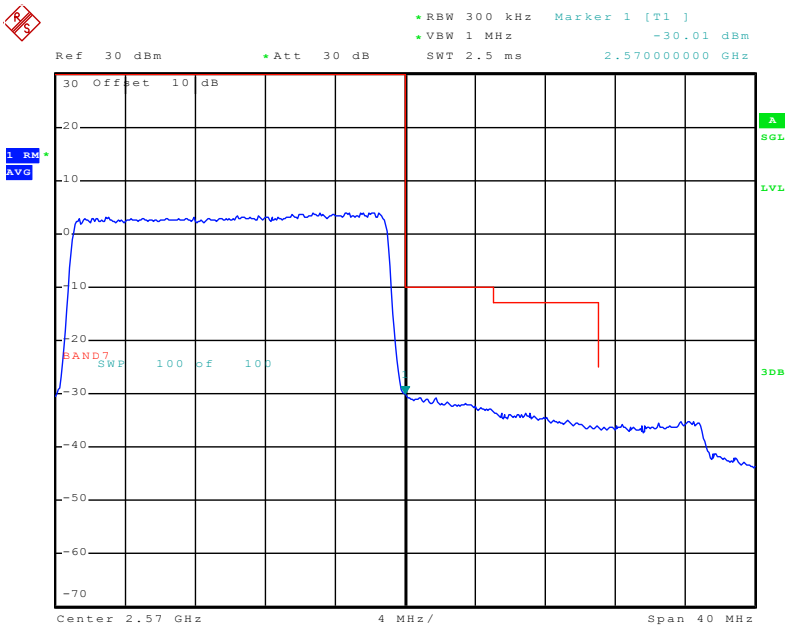
Highest channel

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



Date: 19.JAN.2015 11:21:39

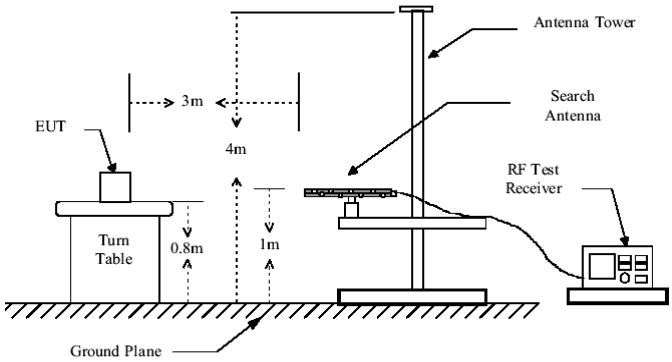
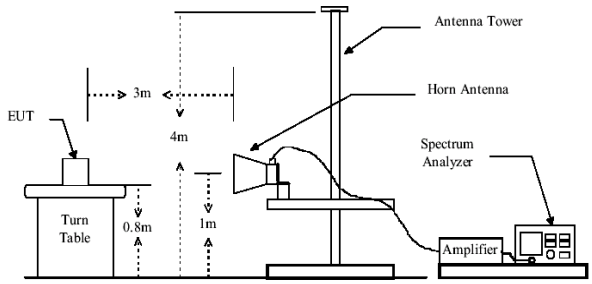
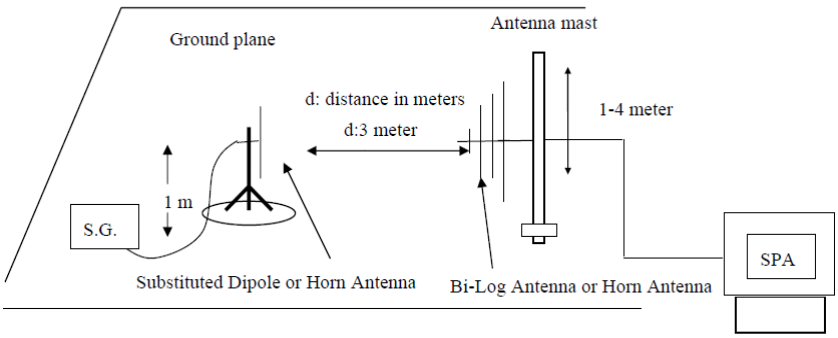
Lowest channel



Date: 19.JAN.2015 11:27:58

Highest channel

6.10 ERP, EIRP Measurement

Test Requirement:	FCC part 24.238(a), part 27.50(d) and part 27.50(h)
Test Method:	FCC part 2.1046
Limit:	LTE Band 2: 2W ERP LTE Band 4: 1W ERP LTE Band 7: 2W EIRP
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. ERP in frequency band 824.2 –848.80.8MHz 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: ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB) 4. EIRP in frequency band 1850.2 –1909.8MHz 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: EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB) 5. The worse case was relating to the conducted output power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case)

LTE band 2 part

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	25.28	30.00	Pass
					H	17.78		
1850.70	18607	16QAM	1.4	H	V	25.23		
					H	17.24		
1.4MHz(RB size 3 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	25.17	30.00	Pass
					H	17.69		
1850.70	18607	16QAM	1.4	H	V	25.10		
					H	17.55		
1.4MHz(RB size 6 & RB offset 0)								
1850.70	18607	QPSK	1.4	H	V	24.95	30.00	Pass
					H	17.25		
1850.70	18607	16QAM	1.4	H	V	24.98		
					H	17.21		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	24.71	30.00	Pass
					H	19.30		
1880.00	18900	16QAM	1.4	H	V	24.75		
					H	19.24		
1.4MHz(RB size 3 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	24.47	30.00	Pass
					H	19.12		
1880.00	18900	16QAM	1.4	H	V	24.46		
					H	19.11		
1.4MHz(RB size 6 & RB offset 0)								
1880.00	18900	QPSK	1.4	H	V	34.21	30.00	Pass
					H	19.14		
1880.00	18900	16QAM	1.4	H	V	24.23		
					H	19.10		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1.4MHz(RB size 1 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	21.72	30.00	Pass
					H	17.65		
1909.30	19193	16QAM	1.4	H	V	21.53		
					H	17.53		
1.4MHz(RB size 3 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	21.53	30.00	Pass
					H	17.42		
1909.30	19193	16QAM	1.4	H	V	21.47		
					H	17.39		
1.4MHz(RB size 6 & RB offset 0)								
1909.30	19193	QPSK	1.4	H	V	21.24	30.00	Pass
					H	17.08		
1909.30	19193	16QAM	1.4	H	V	21.21		
					H	17.09		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1860.00	18700	QPSK	20.0	H	V	25.53	30.00	Pass
					H	20.11		
1860.00	18700	16QAM	20.0	H	V	25.46		
					H	20.04		
20MHz(RB size 50 & RB offset 0)								
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1860.00	18700	QPSK	20.0	H	V	25.28	30.00	Pass
					H	19.95		
1860.00	18700	16QAM	20.0	H	V	25.27		
					H	19.85		
20MHz(RB size 100 & RB offset 0)								
Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
1860.00	18700	QPSK	20.0	H	V	24.95	30.00	Pass
					H	19.68		
1860.00	18700	16QAM	20.0	H	V	24.86		
					H	19.65		

Middle channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1880.00	18900	QPSK	20.0	H	V	26.12	30.00	Pass
					H	20.75		
1880.00	18900	16QAM	20.0	H	V	25.96		
					H	20.68		
20MHz(RB size 50 & RB offset 0)								
1880.00	18900	QPSK	20.0	H	V	25.79	30.00	Pass
					H	20.34		
1880.00	18900	16QAM	20.0	H	V	25.86		
					H	20.40		
20MHz(RB size 100 & RB offset 0)								
1880.00	18900	QPSK	20.0	H	V	25.69	30.00	Pass
					H	19.72		
1880.00	18900	16QAM	20.0	H	V	25.47		
					H	19.52		

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)								
1900.00	19100	QPSK	20.0	H	V	24.11	30.00	Pass
					H	19.65		
1900.00	19100	16QAM	20.0	H	V	24.07		
					H	19.54		
20MHz(RB size 50 & RB offset 0)								
1900.00	19100	QPSK	20.0	H	V	23.95	30.00	Pass
					H	18.91		
1900.00	19100	16QAM	20.0	H	V	23.87		
					H	18.77		
20MHz(RB size 100 & RB offset 0)								
1900.00	19100	QPSK	20.0	H	V	23.85	30.00	Pass
					H	18.65		
1900.00	19100	16QAM	20.0	H	V	23.52		
					H	18.63		

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	22.27	30.00	Pass
					H	18.53		
1710.70	19957	16QAM	1.4	H	V	22.19		
					H	18.45		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.98	30.00	Pass
					H	17.95		
1710.70	19957	16QAM	1.4	H	V	21.89		
					H	17.79		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.68	30.00	Pass
					H	17.52		
1710.70	19957	16QAM	1.4	H	V	21.66		
					H	17.26		

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)								
1710.70	19957	QPSK	1.4	H	V	21.36	30.00	Pass
					H	18.71		
1710.70	19957	16QAM	1.4	H	V	21.29		
					H	18.64		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.01	30.00	Pass
					H	18.24		
1710.70	19957	16QAM	1.4	H	V	20.96		
					H	18.18		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	20.69	30.00	Pass
					H	17.63		
1710.70	19957	16QAM	1.4	H	V	20.57		
					H	17.46		

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)								
1710.70	19957	QPSK	1.4	H	V	21.52	30.00	Pass
					H	19.21		
1710.70	19957	16QAM	1.4	H	V	21.53		
					H	19.17		
1.4MHz(RB size 3 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	21.12	30.00	Pass
					H	18.95		
1710.70	19957	16QAM	1.4	H	V	21.03		
					H	18.86		
1.4MHz(RB size 6 & RB offset 0)								
1710.70	19957	QPSK	1.4	H	V	20.75	30.00	Pass
					H	18.54		
1710.70	19957	16QAM	1.4	H	V	20.66		
					H	18.67		

Lowest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
1720.00	20050	QPSK	20.0	H	V	21.65	30.00	Pass
					H	17.32		
1720.00	20050	16QAM	20.0	H	V	21.60		
					H	17.29		
20MHz(RB size 50 & RB offset 0)								
1720.00	20050	QPSK	20.0	H	V	21.08	30.00	Pass
					H	16.99		
1720.00	20050	16QAM	20.0	H	V	20.97		
					H	16.81		
20MHz(RB size 100 & RB offset 0)								
1720.00	20050	QPSK	20.0	H	V	20.65	30.00	Pass
					H	16.47		
1720.00	20050	16QAM	20.0	H	V	20.58		
					H	16.30		

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	20.0	H	V	21.02	30.00	Pass
					H	18.01		
1732.50	20175	16QAM	20.0	H	V	20.86		
					H	17.85		
20MHz(RB size 50 & RB offset 0)								
1732.50	20175	QPSK	20.0	H	V	20.74	30.00	Pass
					H	17.65		
1732.50	20175	16QAM	20.0	H	V	20.45		
					H	17.25		
20MHz(RB size 100 & RB offset 0)								
1732.50	20175	QPSK	20.0	H	V	20.53	30.00	Pass
					H	17.42		
1732.50	20175	16QAM	20.0	H	V	20.50		
					H	17.36		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20.0	H	V	20.39	30.00	Pass
					H	18.28		
1745.00	20300	16QAM	20.0	H	V	20.15		
					H	18.20		
20MHz(RB size 50 & RB offset 0)								
1745.00	20300	QPSK	20.0	H	V	19.88	30.00	Pass
					H	17.78		
1745.00	20300	16QAM	20.0	H	V	19.76		
					H	17.66		
20MHz(RB size 100 & RB offset 0)								
1745.00	20300	QPSK	20.0	H	V	19.58	30.00	Pass
					H	17.46		
1745.00	20300	16QAM	20.0	H	V	19.63		
					H	17.58		

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	5.0	H	V	18.55	33.00	Pass
					H	18.58		
2502.50	20775	16QAM	5.0	H	V	18.36		
					H	18.25		
5MHz(RB size 12 & RB offset 0)								
2502.50	20775	QPSK	5.0	H	V	17.86	33.00	Pass
					H	17.68		
2502.50	20775	16QAM	5.0	H	V	17.86		
					H	17.64		
5MHz(RB size 25 & RB offset 0)								
2502.50	20775	QPSK	5.0	H	V	17.65	33.00	Pass
					H	16.90		
2502.50	20775	16QAM	5.0	H	V	17.20		
					H	16.15		

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	5.0	H	V	19.91	33.00	Pass
					H	19.85		
2535.00	21100	16QAM	5.0	H	V	19.78		
					H	19.68		
5MHz(RB size 12 & RB offset 0)								
2535.00	21100	QPSK	5.0	H	V	19.41	33.00	Pass
					H	18.69		
2535.00	21100	16QAM	5.0	H	V	18.93		
					H	18.63		
5MHz(RB size 25 & RB offset 0)								
2535.00	20775	QPSK	5.0	H	V	18.62	33.00	Pass
					H	18.10		
2535.00	20775	16QAM	5.0	H	V	18.54		
					H	17.68		

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	5.0	H	V	19.78	33.00	Pass
					H	18.78		
2567.50	21425	16QAM	5.0	H	V	19.57		
					H	18.63		
5MHz(RB size 12 & RB offset 0)								
2567.50	21425	QPSK	5.0	H	V	18.98	33.00	Pass
					H	18.52		
2567.50	21425	16QAM	5.0	H	V	18.69		
					H	17.52		
5MHz(RB size 25 & RB offset 0)								
2567.50	21425	QPSK	5.0	H	V	17.65	33.00	Pass
					H	16.90		
2567.50	21425	16QAM	5.0	H	V	17.20		
					H	16.15		

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	20.0	H	V	17.68	33.00	Pass
					H	17.76		
2510.00	20850	16QAM	20.0	H	V	17.65		
					H	17.74		
20MHz(RB size 50 & RB offset 0)								
2510.00	20850	QPSK	20.0	H	V	16.94	33.00	Pass
					H	16.66		
2510.00	20850	16QAM	20.0	H	V	16.78		
					H	16.88		
20MHz(RB size 100 & RB offset 0)								
2510.00	20850	QPSK	20.0	H	V	16.52	33.00	Pass
					H	16.32		
2510.00	20850	16QAM	20.0	H	V	16.32		
					H	16.30		

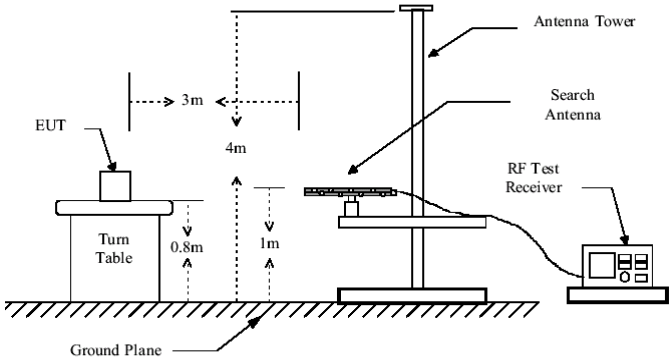
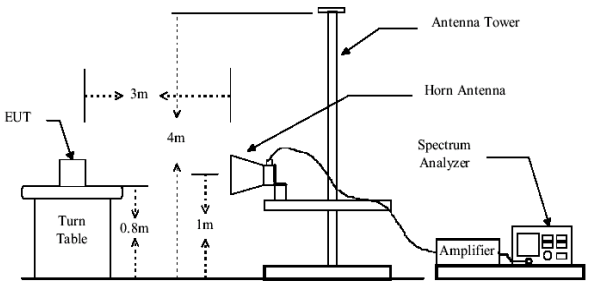
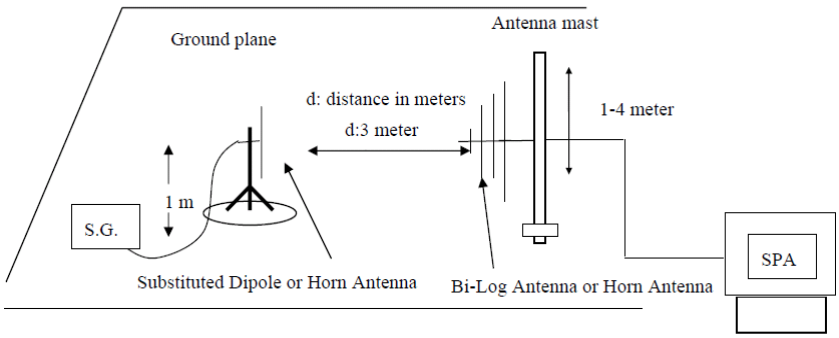
Middle channel

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	20.0	H	V	17.58	33.00	Pass
					H	18.14		
2535.00	21100	16QAM	20.0	H	V	17.25		
					H	18.02		
20MHz(RB size 50 & RB offset 0)								
2535.00	21100	QPSK	20.0	H	V	16.48	33.00	Pass
					H	17.42		
2535.00	21100	16QAM	20.0	H	V	16.35		
					H	17.55		
20MHz(RB size 100 & RB offset 0)								
2535.00	21100	QPSK	20.0	H	V	16.55	33.00	Pass
					H	17.25		
2535.00	21100	16QAM	20.0	H	V	16.36		
					H	17.20		

Highest channel

Frequency (MHz)	UL Channel	Modulation	BW (MHz)	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
20MHz(RB size 1 & RB offset 0)								
2560.00	21350	QPSK	20.0	H	V	18.21	33.00	Pass
					H	18.04		
2560.00	21350	16QAM	20.0	H	V	17.65		
					H	17.36		
20MHz(RB size 50 & RB offset 0)								
2560.00	21350	QPSK	20.0	H	V	17.52	33.00	Pass
					H	16.95		
2560.00	21350	16QAM	20.0	H	V	17.21		
					H	16.36		
20MHz(RB size 100 & RB offset 0)								
2560.00	21350	QPSK	20.0	H	V	16.25	33.00	Pass
					H	16.45		
2560.00	21350	16QAM	20.0	H	V	16.55		
					H	16.25		

6.11 Field strength of spurious radiation measurement

Test Requirement:	FCC part 24.238(a), part 27.53(h) and part 27.53(m)
Test Method:	FCC part 2.1053
Limit:	LTE Band 2: -13dBm, LTE Band 4: -13dBm and LTE Band 7: -25dBm
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

	4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data

Below 1GHz:

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

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

LTE band 2 part:

1.4MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3701.40	Vertical	-44.31	-13	Pass
5552.10	V	-48.36		
3701.40	Horizontal	-46.26		
5552.10	H	-47.63		
Middle				
3760.00	Vertical	-48.30	-13	Pass
5640.00	V	-47.36		
3760.00	Horizontal	-46.25		
5640.00	H	-47.12		
Highest				
3818.60	Vertical	-43.92	-13	Pass
5727.90	V	-47.62		
3818.60	Horizontal	-41.51		
5727.90	H	-47.63		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3703.00	Vertical	-45.44	-13	Pass
5554.50	V	-47.32		
3703.00	Horizontal	-48.67		
5554.50	H	-43.34		
Middle				
3760.00	Vertical	-49.58	-13	Pass
5640.00	V	-47.62		
3760.00	Horizontal	-46.49		
5640.00	H	-47.25		
Highest				
3817.00	Vertical	-45.60	-13	Pass
5725.50	V	-47.23		
3817.00	Horizontal	-44.40		
5725.50	H	-47.63		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3705.00	Vertical	-44.72	-13	Pass
5557.50	V	-47.63		
3705.00	Horizontal	-46.32		
5557.50	H	-47.23		
Middle				
3760.00	Vertical	-48.65	-13	Pass
5640.00	V	-47.52		
3760.00	Horizontal	-48.44		
5640.00	H	-47.52		
Highest				
3815.00	Vertical	-48.67	-13	Pass
5722.50	V	-47.62		
3815.00	Horizontal	-44.79		
5722.50	H	-47.52		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3710.00	Vertical	-48.66	-13	Pass
5565.00	V	-46.32		
3710.00	Horizontal	-49.89		
5565.00	H	-44.58		
Middle				
3760.00	Vertical	-48.25	-13	Pass
5640.00	V	-46.89		
3760.00	Horizontal	-45.61		
5640.00	H	-47.52		
Highest				
3810.00	Vertical	-50.01	-13	Pass
5715.00	V	-44.93		
3810.00	Horizontal	-49.60		
5715.00	H	-44.86		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3715.00	Vertical	-48.03	-13	Pass
5572.50	V	-44.42		
3715.00	Horizontal	-49.90		
5572.50	H	-47.32		
Middle				
3760.00	Vertical	-47.75	-13	Pass
5640.00	V	-45.65		
3760.00	Horizontal	-49.63		
5640.00	H	-44.25		
Highest				
3805.00	Vertical	-49.36	-13	Pass
5707.50	V	-47.52		
3805.00	Horizontal	-49.73		
5707.50	H	-44.93		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3720.00	Vertical	-46.68	-13	Pass
5580.00	V	-44.54		
3720.00	Horizontal	-44.06		
5580.00	H	-45.89		
Middle				
3760.00	Vertical	-49.91	-13	Pass
5640.00	V	-45.41		
3760.00	Horizontal	-50.36		
5640.00	H	-45.39		
Highest				
3800.00	Vertical	-47.48	-13	Pass
5700.00	V	-44.78		
3800.00	Horizontal	-49.12		
5700.00	H	-44.95		

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	-40.86	-13	Pass
5132.10	V	-43.31		
3421.40	Horizontal	-44.21		
6842.80	H	-37.29		
Middle				
3465.00	Vertical	-35.29	-13	Pass
5197.50	V	-47.58		
3465.00	Horizontal	-41.93		
6930.00	H	-34.62		
Highest				
3508.60	Vertical	-45.52	-13	Pass
5262.90	V	-43.89		
3508.60	Horizontal	-48.73		
7017.20	H	-37.73		

3MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3423.00	Vertical	-44.51	-13	Pass
5134.50	V	-49.68		
3423.00	Horizontal	-43.38		
6846.00	H	-36.98		
Middle				
3465.00	Vertical	-36.34	-13	Pass
5197.50	V	-48.98		
3465.00	Horizontal	-42.70		
6930.00	H	-37.69		
Highest				
3507.00	Vertical	-44.84	-13	Pass
5260.50	V	-49.65		
3507.00	Horizontal	-48.77		
7014.00	H	-37.25		

5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3425.00	Vertical	-40.76	-13	Pass
5137.50	V	-46.35		
3425.00	Horizontal	-44.20		
6850.00	H	-36.50		
Middle				
3465.00	Vertical	-36.71	-13	Pass
5197.50	V	-47.85		
3465.00	Horizontal	-41.63		
6930.00	H	-35.74		
Highest				
3505.00	Vertical	-44.42	-13	Pass
5257.50	V	-47.62		
3505.00	Horizontal	-49.38		
5257.50	H	-47.36		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3430.00	Vertical	-41.74	-13	Pass
5145.00	V	-47.65		
3430.00	Horizontal	-44.24		
6860.00	H	-36.57		
Middle				
3465.00	Vertical	-35.63	-13	Pass
5197.50	V	-48.65		
3465.00	Horizontal	-43.74		
6930.00	H	-35.50		
Highest				
3500.00	Vertical	-43.75	-13	Pass
5250.00	V	-47.98		
3500.00	Horizontal	-49.65		
5250.00	H	-46.68		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3435.00	Vertical	-40.31	-13	Pass
5152.50	V	-47.52		
3435.00	Horizontal	-43.86		
6870.00	H	-34.52		
Middle				
3465.00	Vertical	-40.76	-13	Pass
5197.50	V	-47.65		
3465.00	Horizontal	-44.31		
6930.00	H	35.60		
Highest				
3495.00	Vertical	-42.91	-13	Pass
5242.50	V	-47.62		
3495.00	Horizontal	-47.10		
6990.00	H	-34.73		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
3440.00	Vertical	-41.40	-13	Pass
5160.00	V	-47.65		
3440.00	Horizontal	-43.90		
6880.00	H	-37.14		
Middle				
3465.00	Vertical	-38.02	-13	Pass
5197.50	V	-47.65		
3465.00	Horizontal	-43.33		
6930.00	H	-34.39		
Highest				
3490.00	Vertical	-40.04	-13	Pass
5235.00	V	-47.65		
3490.00	Horizontal	-45.38		
6980.00	H	-35.67		

LTE band 7 part:

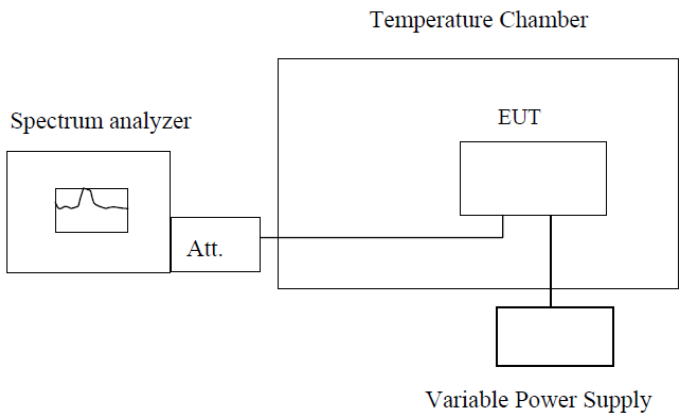
5MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5005.00	Vertical	-35.41	-25	Pass
5005.00	Horizontal	-38.22		
Middle				
5070.00	Vertical	-40.25	-25	Pass
5070.00	Horizontal	-41.20		
Highest				
5135.00	Vertical	-39.32	-25	Pass
5135.00	Horizontal	-40.41		

10MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5010.00	Vertical	-37.46	-25	Pass
5010.00	Horizontal	-39.77		
Middle				
5070.00	Vertical	-41.92	-25	Pass
5070.00	Horizontal	-40.23		
Highest				
5130.00	Vertical	-42.46	-25	Pass
5130.00	Horizontal	-38.94		

15MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5015.00	Vertical	-34.35	-25	Pass
5015.00	Horizontal	-38.85		
Middle				
5070.00	Vertical	-42.11	-25	Pass
5070.00	Horizontal	-41.73		
Highest				
5125.00	Vertical	-39.98	-25	Pass
5125.00	Horizontal	-43.37		

20MHz(RB size 1 & RB offset 0) for QPSK				
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
Lowest				
5020.00	Vertical	-35.83	-25	Pass
5020.00	Horizontal	-39.11		
Middle				
5070.00	Vertical	-42.08	-25	Pass
5070.00	Horizontal	-42.38		
Highest				
5120.00	Vertical	-38.64	-25	Pass
5120.00	Horizontal	-43.54		

6.12 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part 2.1055(a)(1)(b)
Test Method:	FCC Part 2.1055(a)(1)(b)
Limit:	±2.5 ppm
Test setup:	 **Note :** Measurement setup for testing on Antenna connector
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25℃ operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –30℃. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ reached
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

Measurement Data (the worst channel):

LTE Band 2(QPSK)

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	106	0.056383	±2.5	Pass
	-20	102	0.054255		
	-10	134	0.071277		
	0	162	0.086170		
	10	98	0.052128		
	20	104	0.055319		
	30	105	0.055851		
	40	106	0.056383		
	50	78	0.041489		

Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	126	0.067021	±2.5	Pass
	-20	175	0.093085		
	-10	163	0.086702		
	0	104	0.055319		
	10	98	0.052128		
	20	112	0.059574		
	30	106	0.056383		
	40	108	0.057447		
	50	142	0.075532		

Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	130	0.069149	±2.5	Pass
	-20	124	0.065957		
	-10	96	0.051064		
	0	85	0.045213		
	10	63	0.033511		
	20	98	0.052128		
	30	104	0.055319		
	40	68	0.036170		
	50	85	0.045213		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	96	0.0510638	±2.5	Pass
	-20	85	0.0452128		
	-10	79	0.0420213		
	0	85	0.0452128		
	10	103	0.0547872		
	20	108	0.0574468		
	30	123	0.0654255		
	40	125	0.0664894		
	50	96	0.0510638		

Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	99	0.052660	±2.5	Pass
	-20	85	0.045213		
	-10	79	0.042021		
	0	96	0.051064		
	10	103	0.054787		
	20	105	0.055851		
	30	95	0.050532		
	40	105	0.055851		
	50	90	0.047872		

Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	130	0.069149	±2.5	Pass
	-20	120	0.063830		
	-10	107	0.056915		
	0	95	0.050532		
	10	63	0.033511		
	20	85	0.045213		
	30	74	0.039362		
	40	102	0.054255		
	50	118	0.062766		

LTE Band 2(16QAM)

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	132	0.070213	±2.5	Pass
	-20	124	0.065957		
	-10	136	0.072340		
	0	150	0.079787		
	10	102	0.054255		
	20	107	0.056915		
	30	96	0.051064		
	40	114	0.060638		
	50	152	0.080851		

Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	120	0.063830	±2.5	Pass
	-20	130	0.069149		
	-10	114	0.060638		
	0	105	0.055851		
	10	109	0.057979		
	20	102	0.054255		
	30	132	0.070213		
	40	98	0.052128		
	50	95	0.050532		

Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	102	0.054255	±2.5	Pass
	-20	97	0.051596		
	-10	96	0.051064		
	0	123	0.065426		
	10	130	0.069149		
	20	97	0.051596		
	30	98	0.052128		
	40	96	0.051064		
	50	85	0.045213		

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	96	0.051064	±2.5	Pass
	-20	85	0.045213		
	-10	98	0.052128		
	0	102	0.054255		
	10	104	0.055319		
	20	106	0.056383		
	30	123	0.065426		
	40	125	0.066489		
	50	136	0.072340		

Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	104	0.055319	±2.5	Pass
	-20	96	0.051064		
	-10	98	0.052128		
	0	130	0.069149		
	10	124	0.065957		
	20	107	0.056915		
	30	98	0.052128		
	40	136	0.072340		
	50	125	0.066489		

Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	124	0.065957	±2.5	Pass
	-20	120	0.063830		
	-10	136	0.072340		
	0	97	0.051596		
	10	96	0.051064		
	20	88	0.046809		
	30	75	0.039894		
	40	96	0.051064		
	50	85	0.045213		

LTE Band 4(QPSK)

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	103	0.059452	±2.5	Pass
	-20	125	0.072150		
	-10	126	0.072727		
	0	85	0.049062		
	10	96	0.055411		
	20	88	0.050794		
	30	124	0.071573		
	40	104	0.060029		
	50	96	0.055411		

Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	123	0.070996	±2.5	Pass
	-20	140	0.080808		
	-10	132	0.076190		
	0	105	0.060606		
	10	102	0.058874		
	20	98	0.056566		
	30	85	0.049062		
	40	74	0.042713		
	50	69	0.039827		

Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	85	0.049062	±2.5	Pass
	-20	67	0.038672		
	-10	98	0.056566		
	0	82	0.047330		
	10	74	0.042713		
	20	96	0.055411		
	30	93	0.053680		
	40	102	0.058874		
	50	104	0.060029		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	105	0.060606	±2.5	Pass
	-20	103	0.059452		
	-10	98	0.056566		
	0	97	0.055988		
	10	85	0.049062		
	20	63	0.036364		
	30	102	0.058874		
	40	114	0.065801		
	50	85	0.049062		

Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	96	0.055411	±2.5	Pass
	-20	85	0.049062		
	-10	74	0.042713		
	0	96	0.055411		
	10	85	0.049062		
	20	102	0.058874		
	30	96	0.055411		
	40	85	0.049062		
	50	67	0.038672		

Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	120	0.069264	±2.5	Pass
	-20	140	0.080808		
	-10	98	0.056566		
	0	85	0.049062		
	10	75	0.043290		
	20	87	0.050216		
	30	96	0.055411		
	40	104	0.060029		
	50	105	0.060606		

LTE Band 4(16QAM)

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	103	0.059452	±2.5	Pass
	-20	124	0.071573		
	-10	135	0.077922		
	0	98	0.056566		
	10	103	0.059452		
	20	107	0.061760		
	30	85	0.049062		
	40	96	0.055411		
	50	85	0.049062		

Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	104	0.060029	±2.5	Pass
	-20	85	0.049062		
	-10	103	0.059452		
	0	88	0.050794		
	10	96	0.055411		
	20	93	0.053680		
	30	90	0.051948		
	40	87	0.050216		
	50	85	0.049062		

Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	174	0.100433	±2.5	Pass
	-20	163	0.094084		
	-10	124	0.071573		
	0	95	0.054834		
	10	104	0.060029		
	20	105	0.060606		
	30	127	0.073304		
	40	136	0.078499		
	50	148	0.085426		

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	107	0.061760	±2.5	Pass
	-20	130	0.075036		
	-10	85	0.049062		
	0	92	0.053102		
	10	75	0.043290		
	20	102	0.058874		
	30	96	0.055411		
	40	93	0.053680		
	50	90	0.051948		

Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	104	0.060029	±2.5	Pass
	-20	90	0.051948		
	-10	82	0.047330		
	0	125	0.072150		
	10	136	0.078499		
	20	140	0.080808		
	30	136	0.078499		
	40	98	0.056566		
	50	86	0.049639		

Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	124	0.071573	±2.5	Pass
	-20	160	0.092352		
	-10	138	0.079654		
	0	125	0.072150		
	10	106	0.061183		
	20	96	0.055411		
	30	78	0.045022		
	40	106	0.061183		
	50	105	0.060606		

LTE Band 7(QPSK)

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 channel=2535.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	152	0.059961	±2.5	Pass
	-20	136	0.053649		
	-10	104	0.041026		
	0	78	0.030769		
	10	95	0.037475		
	20	105	0.041420		
	30	107	0.042209		
	40	96	0.037870		
	50	68	0.026824		

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 channel=2535.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	67	0.026430	±2.5	Pass
	-20	59	0.023274		
	-10	105	0.041420		
	0	74	0.029191		
	10	68	0.026824		
	20	98	0.038659		
	30	95	0.037475		
	40	85	0.033531		
	50	72	0.028402		

Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 channel=2535.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	102	0.040237	±2.5	Pass
	-20	85	0.033531		
	-10	74	0.029191		
	0	103	0.040631		
	10	96	0.037870		
	20	58	0.022880		
	30	57	0.022485		
	40	49	0.019329		
	50	85	0.033531		

Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 channel=2535.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	104	0.041026	±2.5	Pass
	-20	103	0.040631		
	-10	67	0.026430		
	0	68	0.026824		
	10	95	0.037475		
	20	55	0.021696		
	30	78	0.030769		
	40	95	0.037475		
	50	100	0.039448		

LTE Band 7(16QAM)

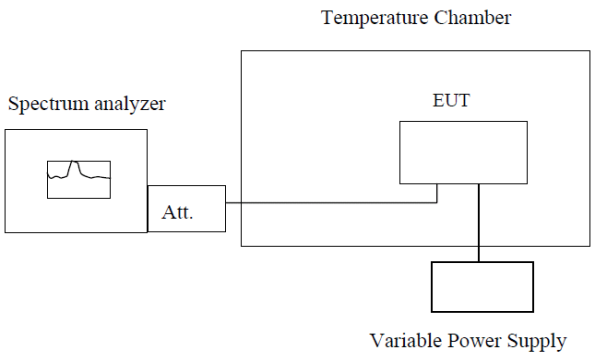
Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 channel=2535.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	145	0.057199	±2.5	Pass
	-20	85	0.033531		
	-10	84	0.033136		
	0	65	0.025641		
	10	102	0.040237		
	20	103	0.040631		
	30	102	0.040237		
	40	99	0.039053		
	50	85	0.033531		

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 channel=2535.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	104	0.041026	±2.5	Pass
	-20	88	0.034714		
	-10	95	0.037475		
	0	93	0.036686		
	10	152	0.059961		
	20	104	0.041026		
	30	98	0.038659		
	40	130	0.051282		
	50	125	0.049310		

Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 channel=2535.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	102	0.040237	2.5	Pass
	-20	99	0.039053		
	-10	98	0.038659		
	0	103	0.040631		
	10	104	0.041026		
	20	85	0.033531		
	30	96	0.037870		
	40	85	0.033531		
	50	63	0.024852		

Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 channel=2535.00MHz					
Power supplied (Vdc)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	124	0.048915	2.5	Pass
	-20	163	0.064300		
	-10	104	0.041026		
	0	120	0.047337		
	10	128	0.050493		
	20	96	0.037870		
	30	85	0.033531		
	40	74	0.029191		
	50	63	0.024852		

6.13 Frequency stability V.S. Voltage measurement

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

Measurement Data (the worst channel):

LTE Band 2(QPSK)

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	45	0.023936	±2.5	Pass
	3.70	63	0.033511		
	3.40	85	0.045213		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	77	0.040957	±2.5	Pass
	3.70	68	0.036170		
	3.40	45	0.023936		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	96	0.051064	±2.5	Pass
	3.70	85	0.045213		
	3.40	75	0.039894		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	66	0.035106	±2.5	Pass
	3.70	63	0.033511		
	3.40	58	0.030851		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	60	0.031915	±2.5	Pass
	3.70	58	0.030851		
	3.40	45	0.023936		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	78	0.041489	±2.5	Pass
	3.70	68	0.036170		
	3.40	59	0.031383		

LTE Band 2(16QAM)

Reference Frequency: LTE Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	88	0.046809	±2.5	Pass
	3.70	97	0.051596		
	3.40	63	0.033511		
Reference Frequency: LTE Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	45	0.023936	±2.5	Pass
	3.70	68	0.036170		
	3.40	74	0.039362		
Reference Frequency: LTE Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	102	0.054255	±2.5	Pass
	3.70	105	0.055851		
	3.40	97	0.051596		
Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	42	0.022340	±2.5	Pass
	3.70	85	0.045213		
	3.40	90	0.047872		
Reference Frequency: LTE Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	75	0.039894	±2.5	Pass
	3.70	104	0.055319		
	3.40	96	0.051064		
Reference Frequency: LTE Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.045213	±2.5	Pass
	3.70	86	0.045745		
	3.40	95	0.050532		

LTE Band 4(QPSK)

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	74	0.042713	±2.5	Pass
	3.70	68	0.039250		
	3.40	99	0.057143		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.049062	±2.5	Pass
	3.70	82	0.047330		
	3.40	77	0.044444		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	96	0.055411	±2.5	Pass
	3.70	85	0.049062		
	3.40	67	0.038672		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	88	0.050794	±2.5	Pass
	3.70	90	0.051948		
	3.40	68	0.039250		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.049062	±2.5	Pass
	3.70	74	0.042713		
	3.40	96	0.055411		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	65	0.037518	±2.5	Pass
	3.70	62	0.035786		
	3.40	85	0.049062		

LTE Band 4(16QAM)

Reference Frequency: LTE Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	108	0.062338	±2.5	Pass
	3.70	96	0.055411		
	3.40	85	0.049062		
Reference Frequency: LTE Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	80	0.046176	±2.5	Pass
	3.70	63	0.036364		
	3.40	57	0.032900		
Reference Frequency: LTE Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	82	0.047330	±2.5	Pass
	3.70	46	0.026551		
	3.40	52	0.030014		
Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	92	0.053102	±2.5	Pass
	3.70	85	0.049062		
	3.40	88	0.050794		
Reference Frequency: LTE Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	57	0.032900	±2.5	Pass
	3.70	49	0.028283		
	3.40	35	0.020202		
Reference Frequency: LTE Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	68	0.039250	±2.5	Pass
	3.70	58	0.033478		
	3.40	47	0.027128		

LTE Band 7(QPSK)

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 channel=2535.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	99	0.039053	±2.5	Pass
	3.70	98	0.038659		
	3.40	67	0.026430		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 channel=2535.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	52	0.020513	±2.5	Pass
	3.70	64	0.025247		
	3.40	82	0.032347		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 channel=2535.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	95	0.037475	±2.5	Pass
	3.70	48	0.018935		
	3.40	71	0.028008		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 channel=2535.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	67	0.026430	±2.5	Pass
	3.70	58	0.022880		
	3.40	79	0.031164		

LTE Band 7(16QAM)

Reference Frequency: LTE Band 7(5MHz) Middle channel=21100 channel=2535.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	85	0.033531	±2.5	Pass
	3.70	88	0.034714		
	3.40	67	0.026430		
Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 channel=2535.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	67	0.026430	±2.5	Pass
	3.70	85	0.033531		
	3.40	105	0.041420		
Reference Frequency: LTE Band 7(15MHz) Middle channel=21100 channel=2535.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	106	0.041815	±2.5	Pass
	3.70	97	0.038264		
	3.40	85	0.033531		
Reference Frequency: LTE Band 7(20MHz) Middle channel=21100 channel=2535.00MHz					
Temperature（℃）	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.25	90	0.035503	±2.5	Pass
	3.70	85	0.033531		
	3.40	76	0.029980		