



LTE Band 5

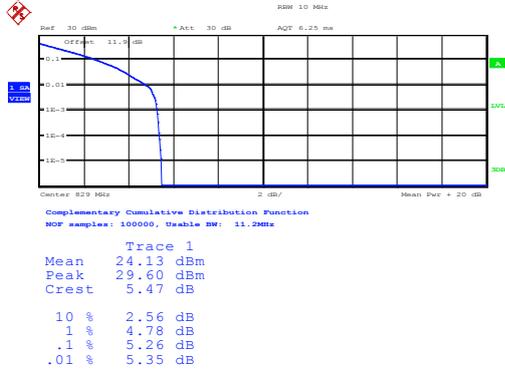
Peak-to-Average Ratio

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.26	5.48	6.15	6.22	PASS
Middle CH	5.03	5.71	5.87	6.31	
Highest CH	4.1	5.22	5.1	6.12	

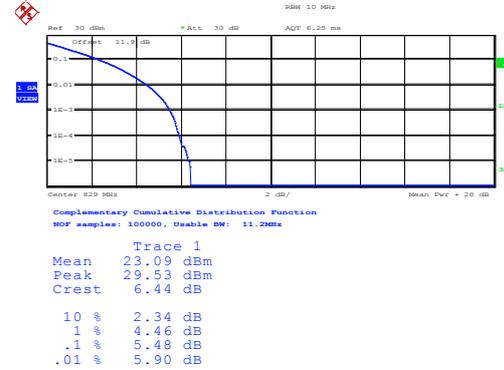


LTE Band 5 / 10MHz / QPSK

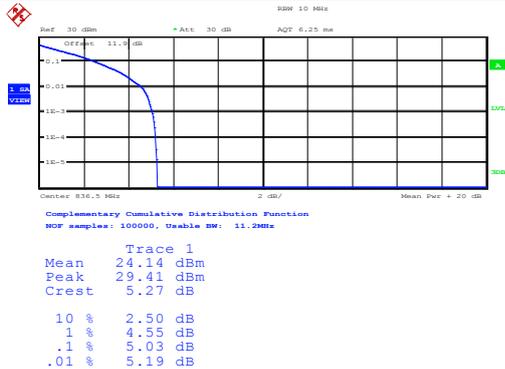
Lowest Channel / 1RB



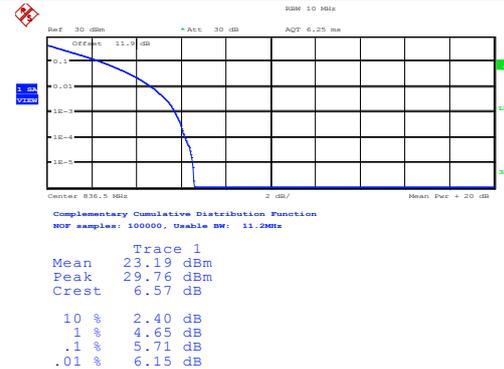
Lowest Channel / Full RB



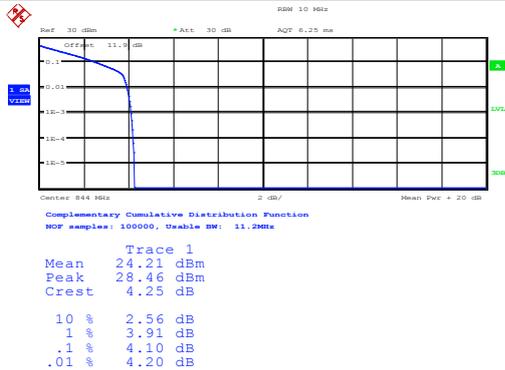
Middle Channel / 1RB



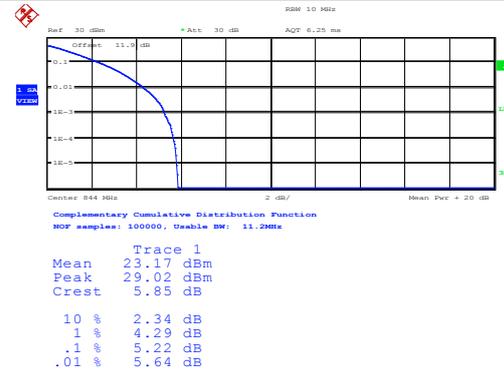
Middle Channel / Full RB



Highest Channel / 1RB



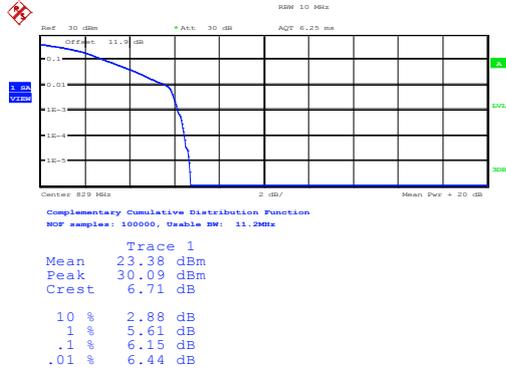
Highest Channel / Full RB





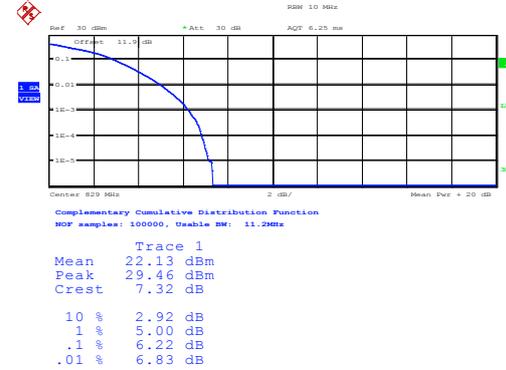
LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



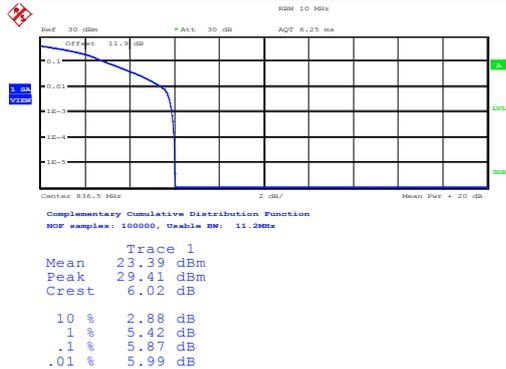
Date: 20.JAN.2015 20:39:28

Lowest Channel / Full RB



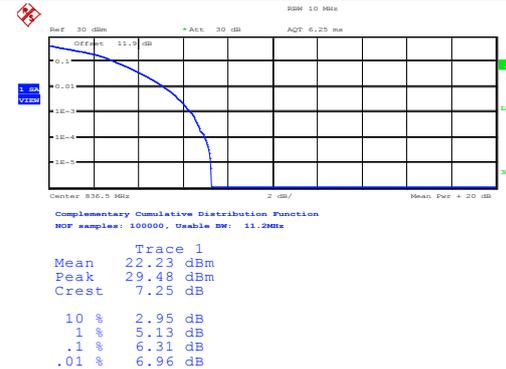
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Middle Channel / 1RB



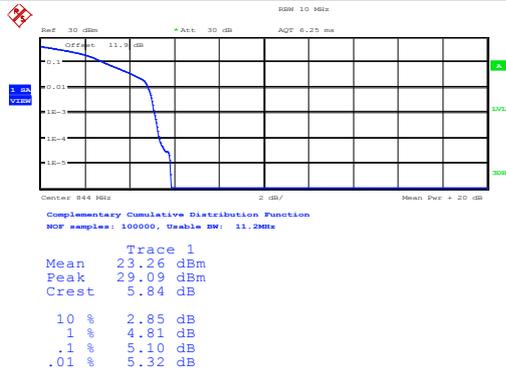
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Middle Channel / Full RB



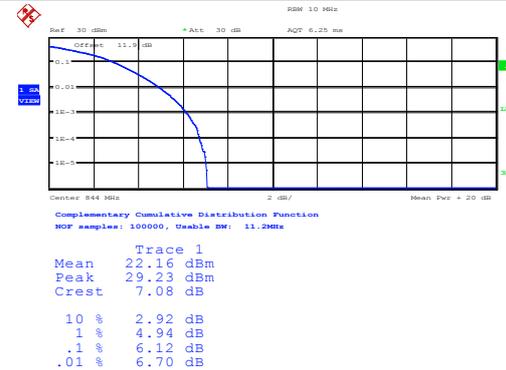
Date: 20.JAN.2015 20:40:55

Highest Channel / 1RB



Date: 20.JAN.2015 20:41:16

Highest Channel / Full RB



Date: 20.JAN.2015 20:43:38



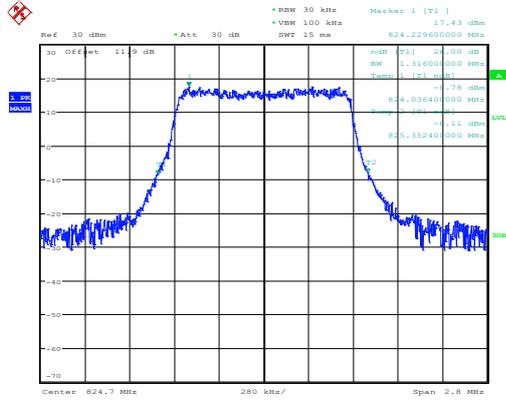
26dB Bandwidth

Mode	LTE Band 5 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.32	1.31	3.04	3.04	4.99	5	10.28	10.34	-	-	-	-
Middle CH	1.3	1.3	3.05	3.01	4.95	4.96	10.42	10.26	-	-	-	-
Highest CH	1.31	1.3	3.03	3.03	4.97	4.93	10.22	10.24	-	-	-	-



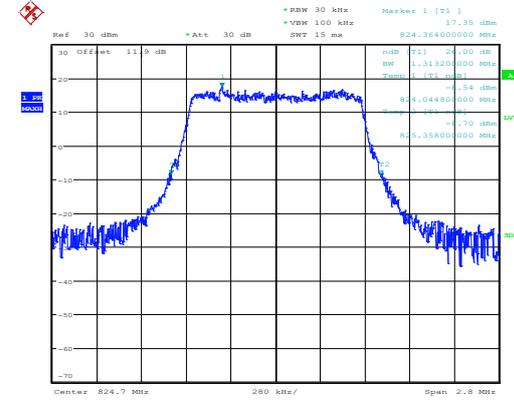
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



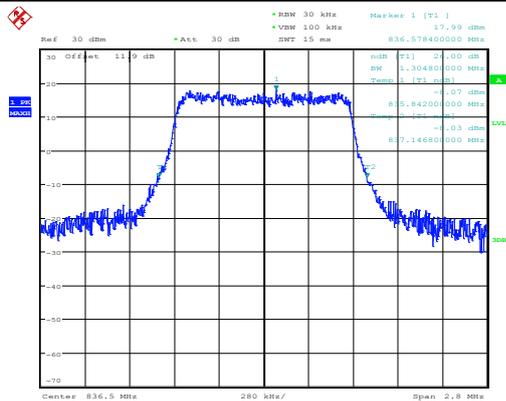
Date: 20.JAN.2015 20:13:39

Lowest Channel / 1.4MHz / 16QAM



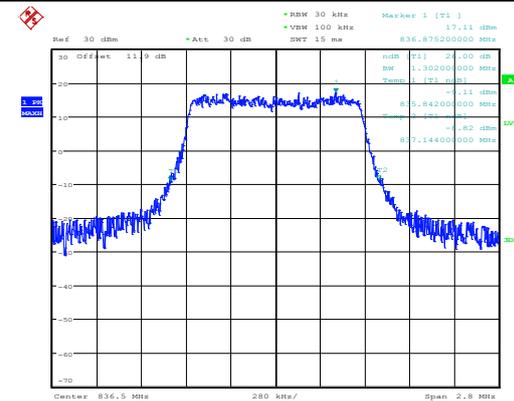
Date: 20.JAN.2015 20:13:21

Middle Channel / 1.4MHz / QPSK



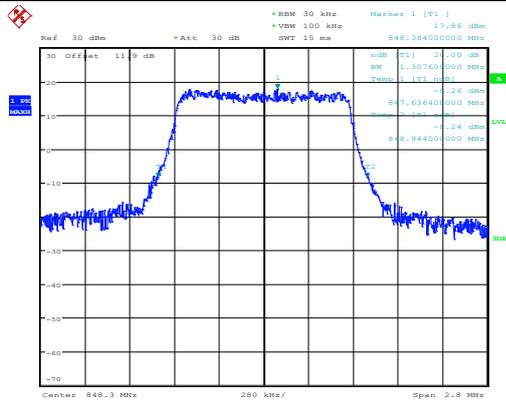
Date: 20.JAN.2015 20:21:56

Middle Channel / 1.4MHz / 16QAM



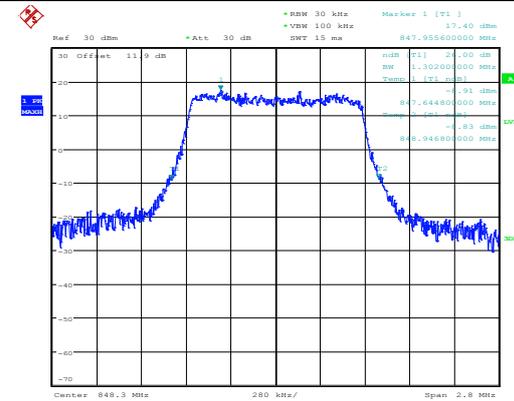
Date: 20.JAN.2015 20:22:13

Highest Channel / 1.4MHz / QPSK



Date: 20.JAN.2015 20:25:29

Highest Channel / 1.4MHz / 16QAM

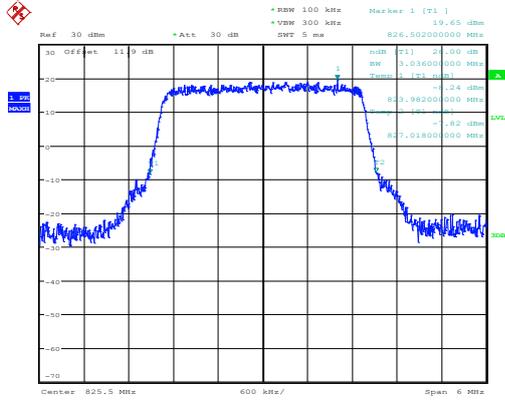


Date: 20.JAN.2015 20:25:46



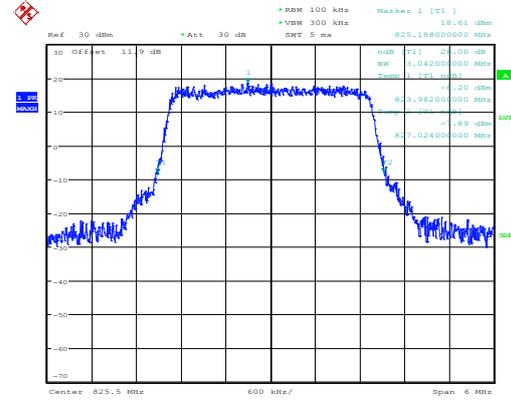
LTE Band 5

Lowest Channel / 3MHz / QPSK



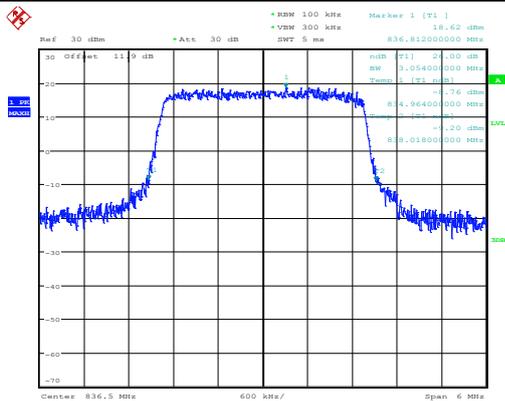
Date: 20.JAN.2015 19:10:18

Lowest Channel / 3MHz / 16QAM



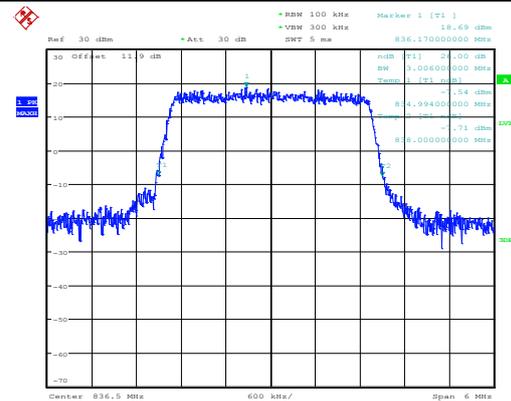
Date: 20.JAN.2015 19:10:35

Middle Channel / 3MHz / QPSK



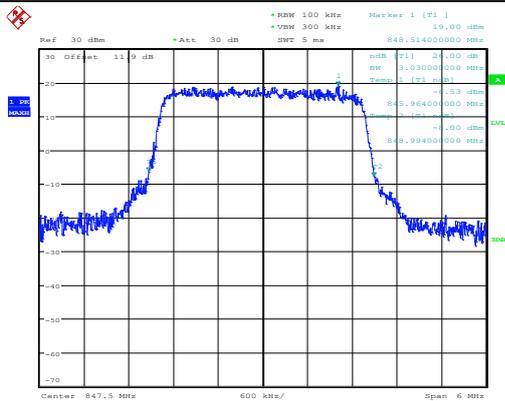
Date: 20.JAN.2015 19:18:50

Middle Channel / 3MHz / 16QAM



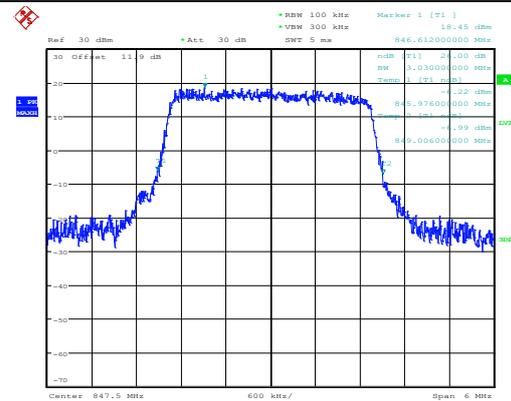
Date: 20.JAN.2015 19:19:07

Highest Channel / 3MHz / QPSK



Date: 20.JAN.2015 19:22:24

Highest Channel / 3MHz / 16QAM

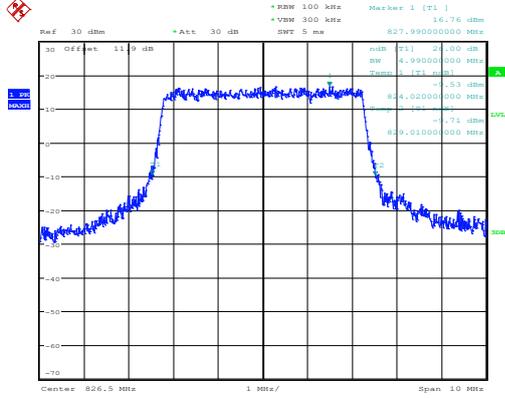


Date: 20.JAN.2015 19:22:41



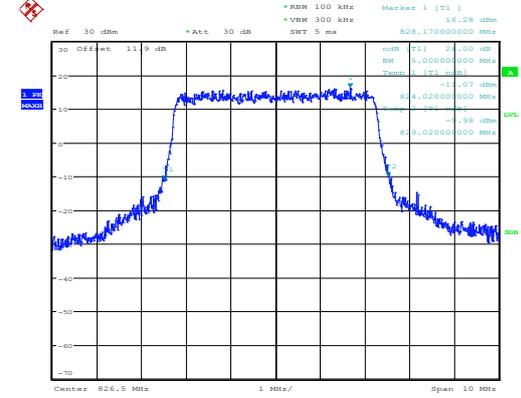
LTE Band 5

Lowest Channel / 5MHz / QPSK



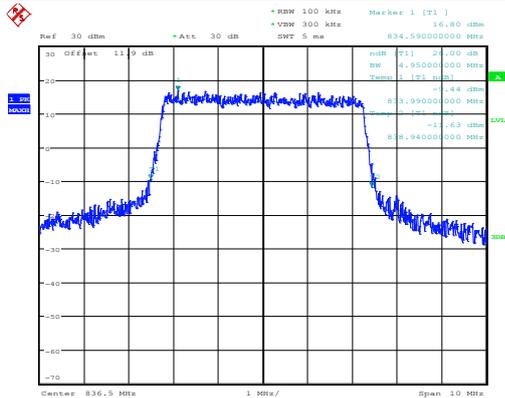
Date: 20.JAN.2015 19:31:00

Lowest Channel / 5MHz / 16QAM



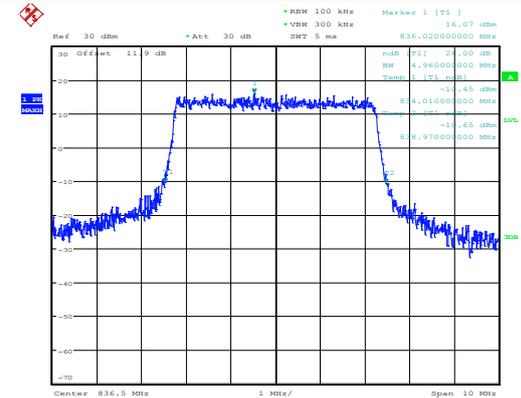
Date: 20.JAN.2015 19:31:17

Middle Channel / 5MHz / QPSK



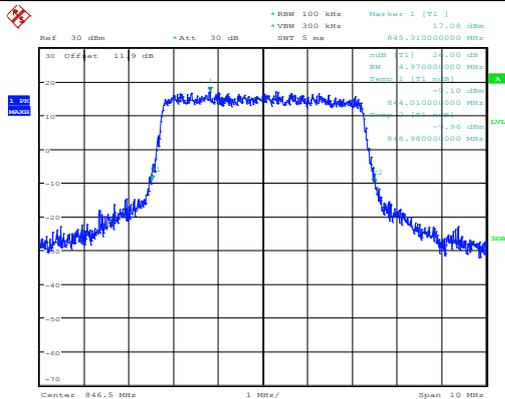
Date: 20.JAN.2015 19:39:34

Middle Channel / 5MHz / 16QAM



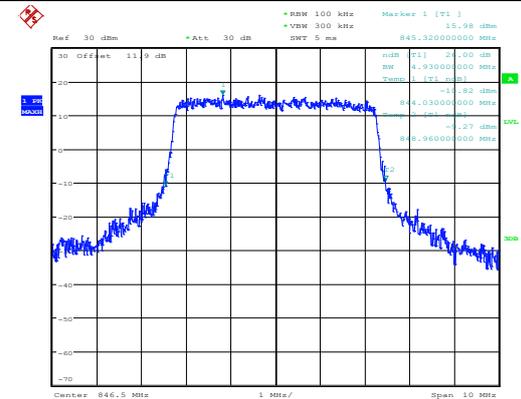
Date: 20.JAN.2015 19:39:51

Highest Channel / 5MHz / QPSK



Date: 20.JAN.2015 19:43:09

Highest Channel / 5MHz / 16QAM

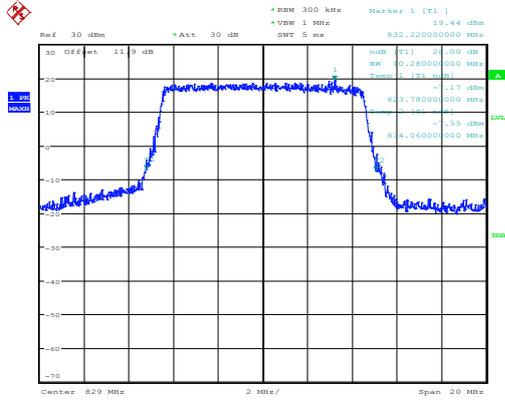


Date: 20.JAN.2015 19:43:26



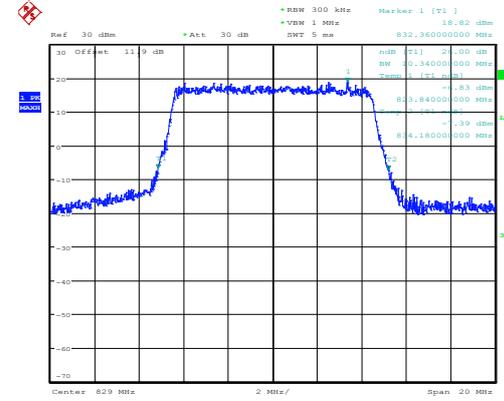
LTE Band 5

Lowest Channel / 10MHz / QPSK



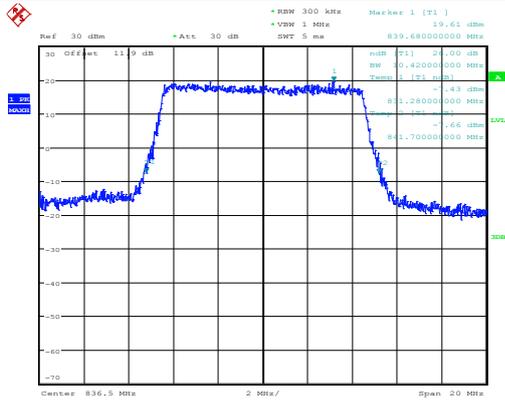
Date: 20.JAN.2015 19:52:13

Lowest Channel / 10MHz / 16QAM



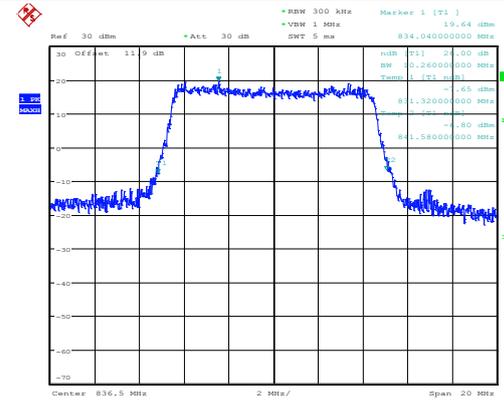
Date: 20.JAN.2015 19:52:34

Middle Channel / 10MHz / QPSK



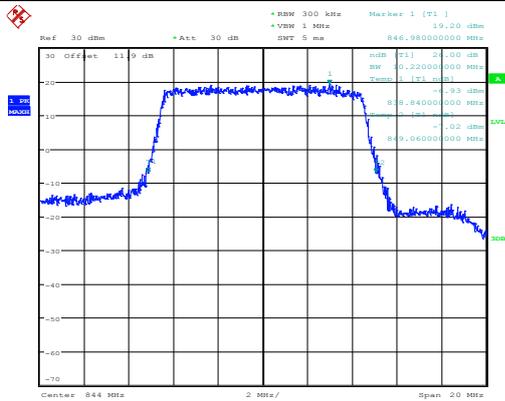
Date: 20.JAN.2015 20:01:07

Middle Channel / 10MHz / 16QAM



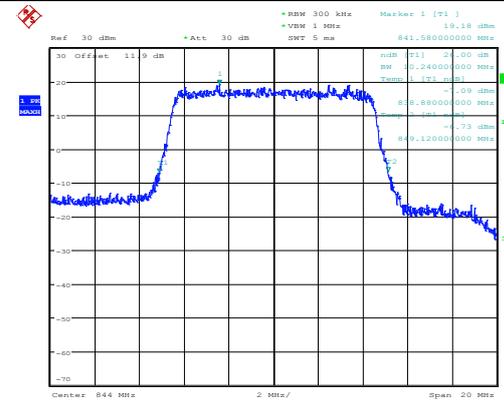
Date: 20.JAN.2015 20:01:24

Highest Channel / 10MHz / QPSK



Date: 20.JAN.2015 20:04:42

Highest Channel / 10MHz / 16QAM



Date: 20.JAN.2015 20:04:59



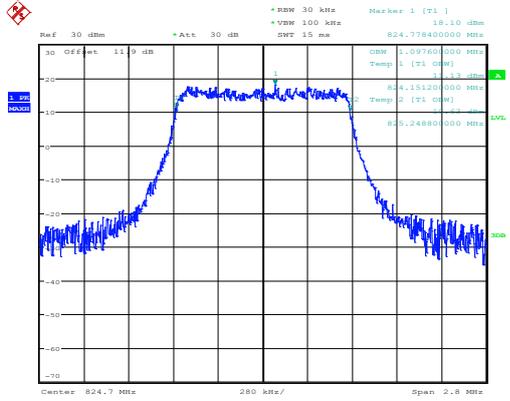
Occupied Bandwidth

Mode	LTE Band 5 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.1	1.1	2.71	2.71	4.49	4.49	9.06	9.06	-	-	-	-
Middle CH	1.1	1.1	2.72	2.72	4.49	4.5	9.12	9.08	-	-	-	-
Highest CH	1.1	1.1	2.71	2.71	4.48	4.49	9.08	9.04	-	-	-	-



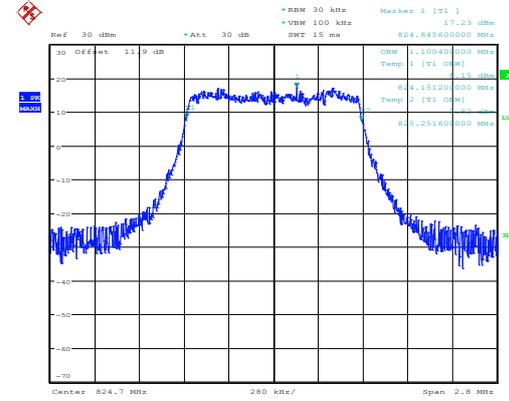
LTE Band 5

Lowest Channel / 1.4MHz / QPSK



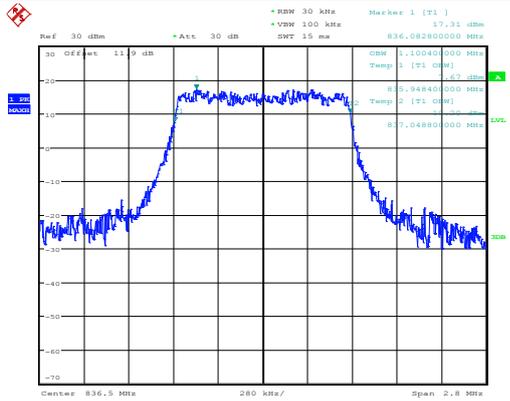
Date: 20.JAN.2015 20:12:49

Lowest Channel / 1.4MHz / 16QAM



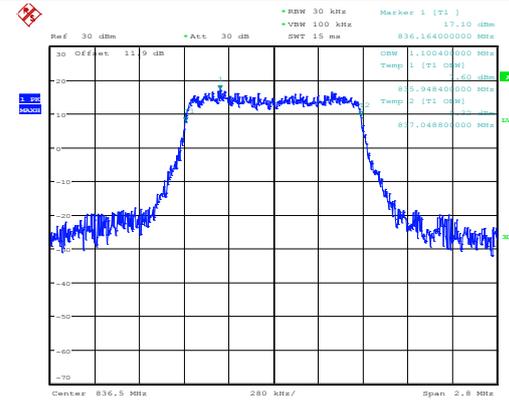
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Middle Channel / 1.4MHz / QPSK



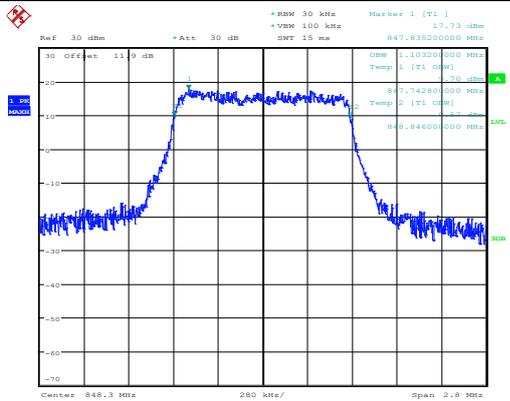
Date: 20.JAN.2015 20:21:24

Middle Channel / 1.4MHz / 16QAM



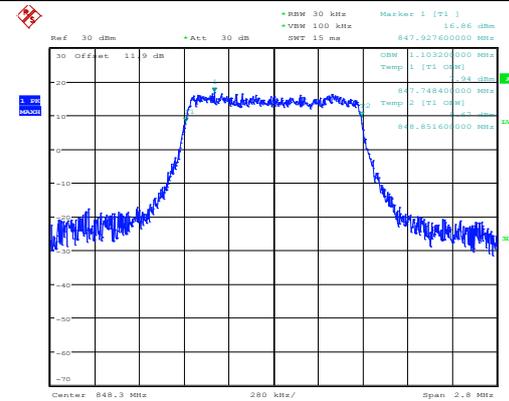
Date: 20.JAN.2015 20:21:39

Highest Channel / 1.4MHz / QPSK



Date: 20.JAN.2015 20:24:57

Highest Channel / 1.4MHz / 16QAM

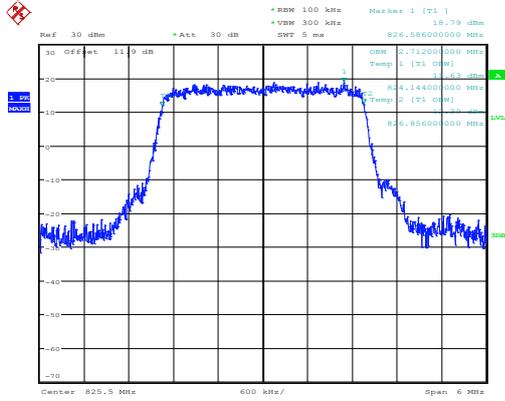


Date: 20.JAN.2015 20:25:12



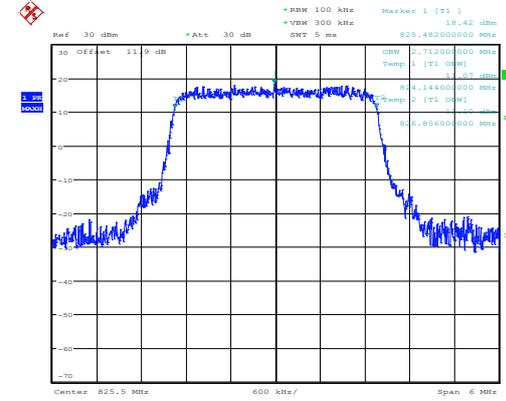
LTE Band 5

Lowest Channel / 3MHz / QPSK



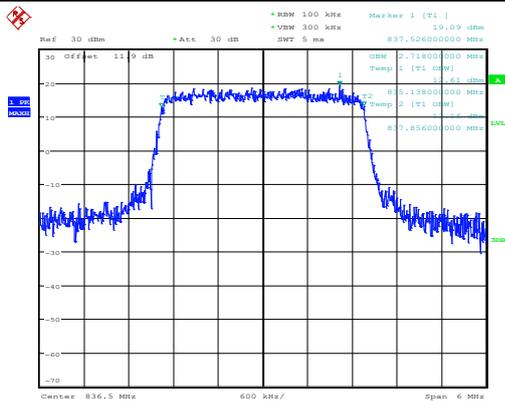
Date: 20.JAN.2015 19:09:47

Lowest Channel / 3MHz / 16QAM



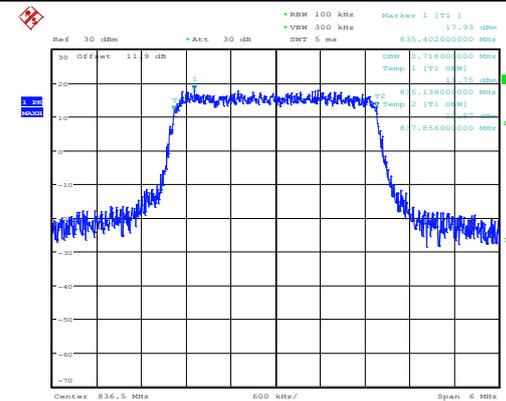
Date: 20.JAN.2015 19:10:01

Middle Channel / 3MHz / QPSK



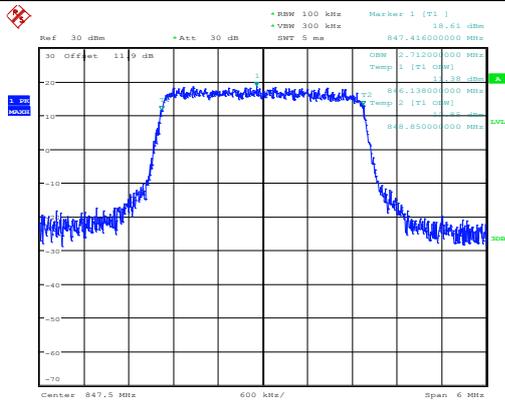
Date: 20.JAN.2015 19:18:18

Middle Channel / 3MHz / 16QAM



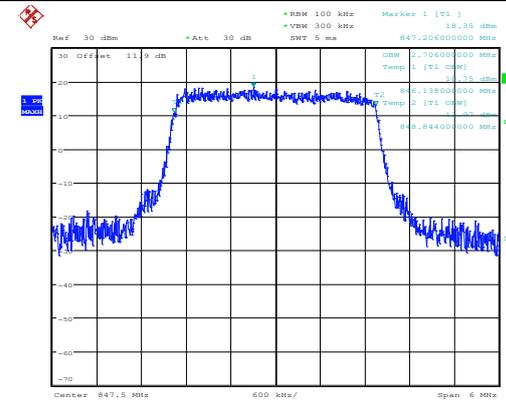
Date: 20.JAN.2015 19:18:33

Highest Channel / 3MHz / QPSK



Date: 20.JAN.2015 19:21:51

Highest Channel / 3MHz / 16QAM

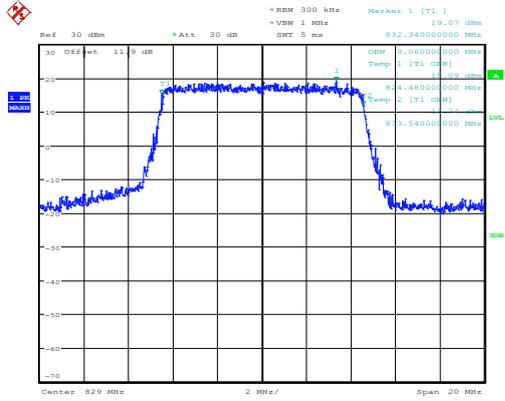


Date: 20.JAN.2015 19:22:06



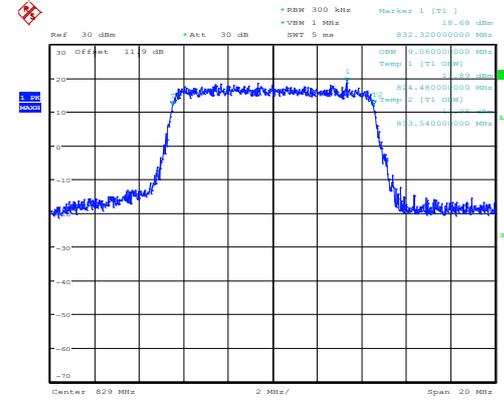
LTE Band 5

Lowest Channel / 10MHz / QPSK



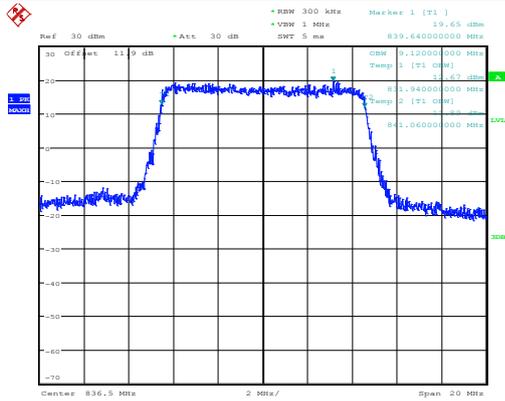
Date: 20.JAN.2015 19:51:30

Lowest Channel / 10MHz / 16QAM



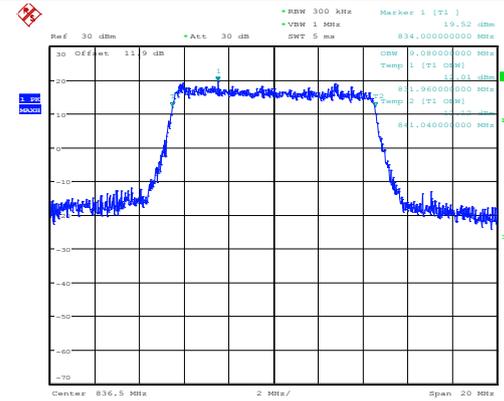
Date: 20.JAN.2015 19:51:54

Middle Channel / 10MHz / QPSK



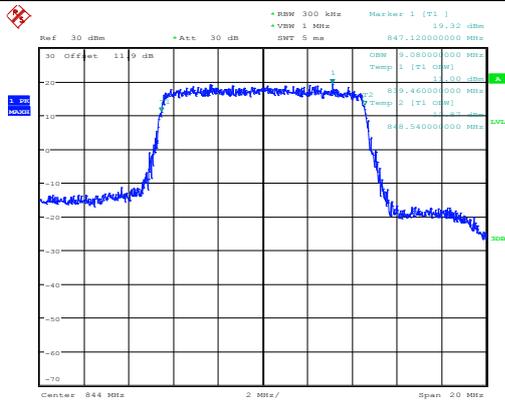
Date: 20.JAN.2015 20:00:34

Middle Channel / 10MHz / 16QAM



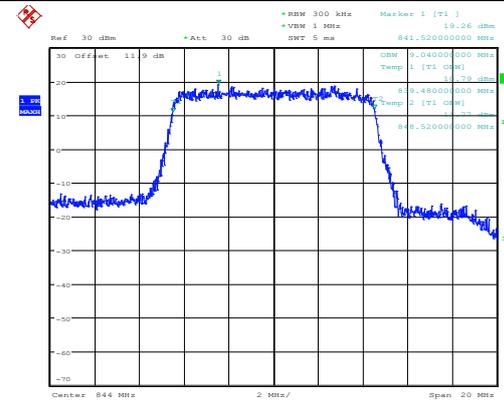
Date: 20.JAN.2015 20:00:49

Highest Channel / 10MHz / QPSK



Date: 20.JAN.2015 20:04:09

Highest Channel / 10MHz / 16QAM



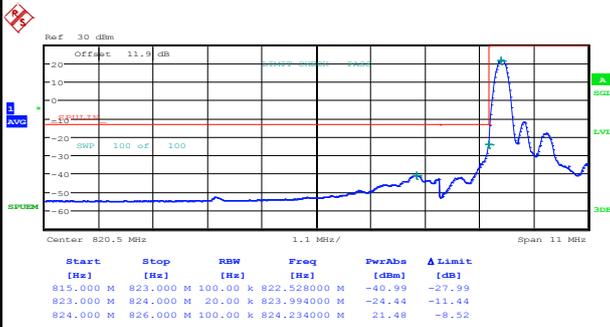
Date: 20.JAN.2015 20:04:24



Conducted Band Edge

LTE Band 5 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



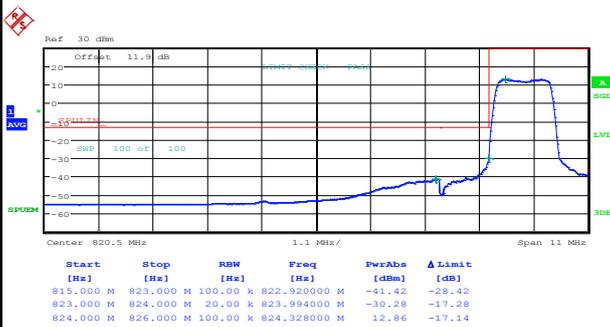
Date: 20.JAN.2015 20:14:53

Highest Band Edge / 1RB



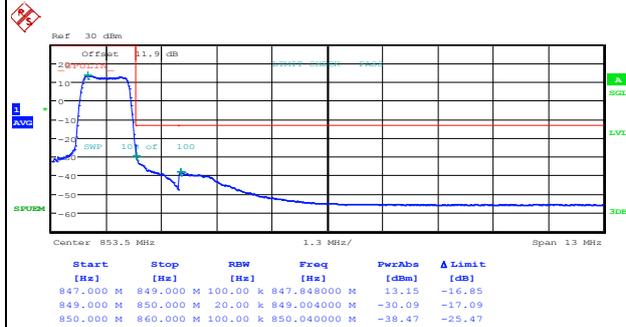
Date: 20.JAN.2015 20:29:30

Lowest Band Edge / Full RB



Date: 20.JAN.2015 20:17:23

Highest Band Edge / Full RB

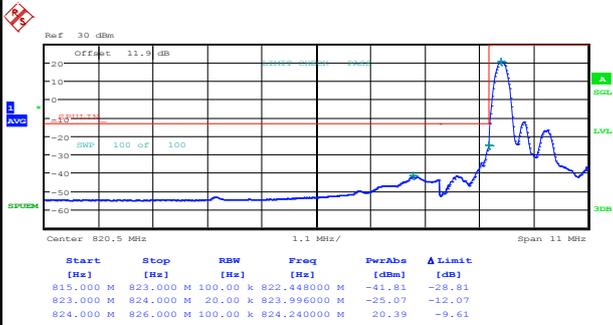


Date: 20.JAN.2015 20:27:01



LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 20.JAN.2015 20:16:08

Highest Band Edge / 1 RB



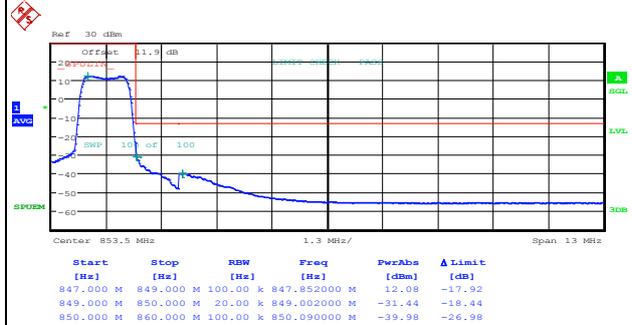
Date: 20.JAN.2015 20:30:45

Lowest Band Edge / Full RB



Date: 20.JAN.2015 20:18:37

Highest Band Edge / Full RB

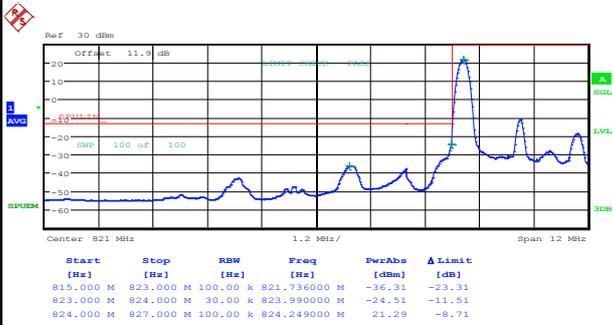


Date: 20.JAN.2015 20:28:15



LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



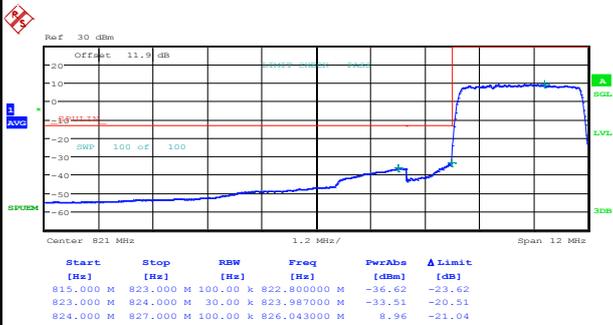
Date: 20.JAN.2015 19:11:50

Highest Band Edge / 1 RB



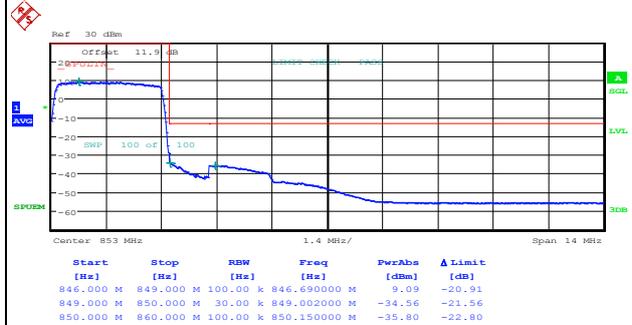
Date: 20.JAN.2015 19:23:55

Lowest Band Edge / Full RB



Date: 20.JAN.2015 19:14:19

Highest Band Edge / Full RB



Date: 20.JAN.2015 19:26:24



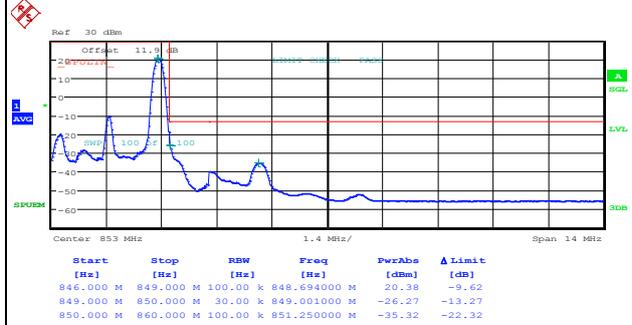
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



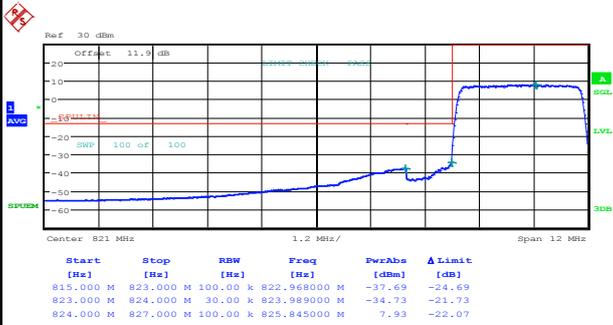
Date: 20.JAN.2015 19:13:04

Highest Band Edge / 1 RB



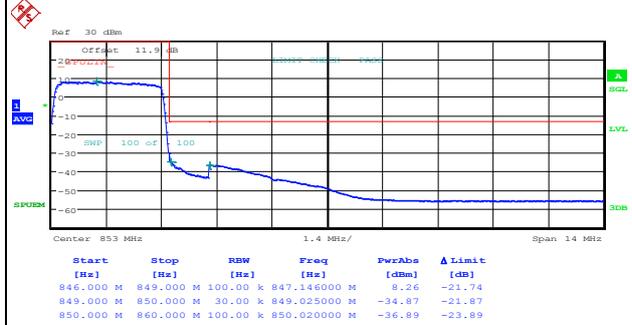
Date: 20.JAN.2015 19:25:10

Lowest Band Edge / Full RB



Date: 20.JAN.2015 19:15:33

Highest Band Edge / Full RB

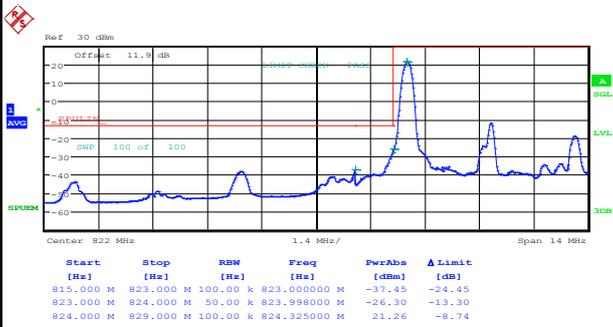


Date: 20.JAN.2015 19:27:39



LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



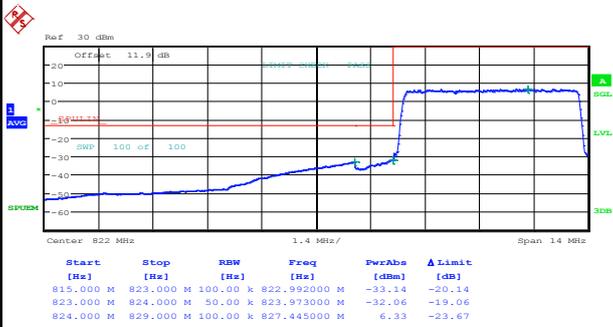
Date: 20.JAN.2015 19:32:32

Highest Band Edge / 1 RB



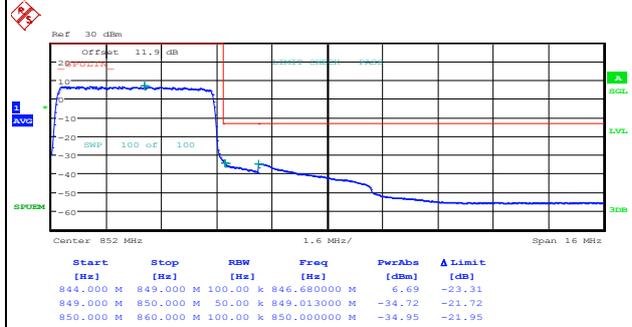
Date: 20.JAN.2015 19:44:41

Lowest Band Edge / Full RB



Date: 20.JAN.2015 19:35:03

Highest Band Edge / Full RB

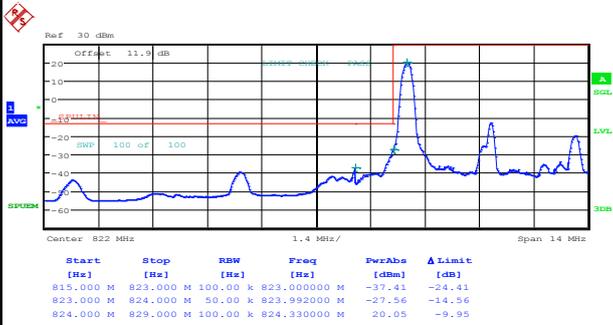


Date: 20.JAN.2015 19:47:10



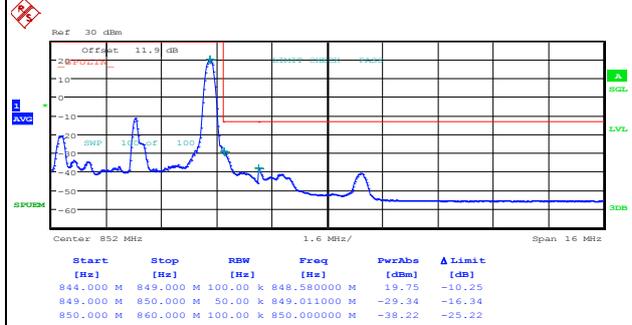
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



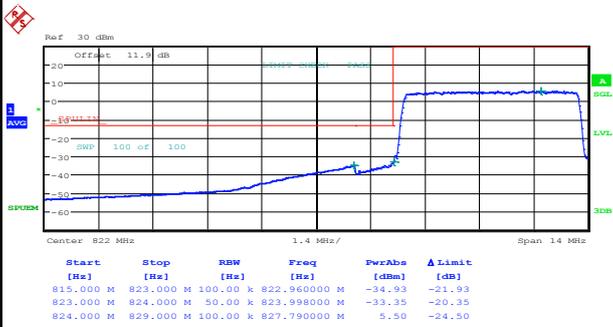
Date: 20.JAN.2015 19:33:46

Highest Band Edge / 1 RB



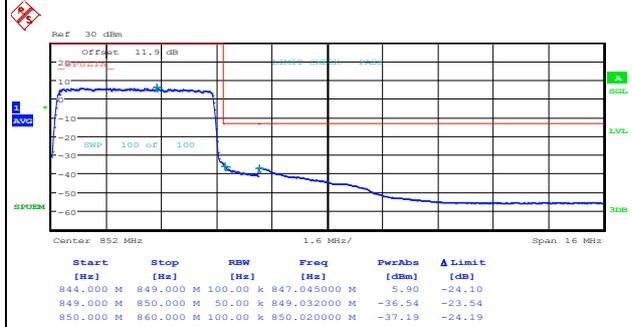
Date: 20.JAN.2015 19:45:55

Lowest Band Edge / Full RB



Date: 20.JAN.2015 19:36:17

Highest Band Edge / Full RB

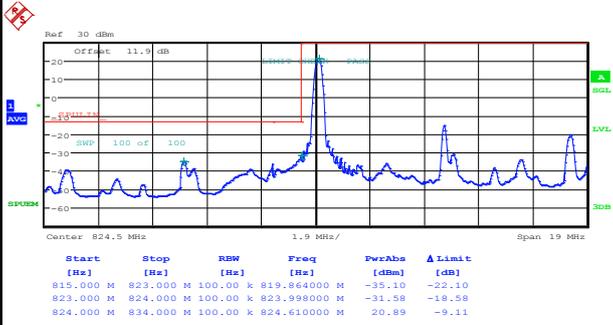


Date: 20.JAN.2015 19:48:25



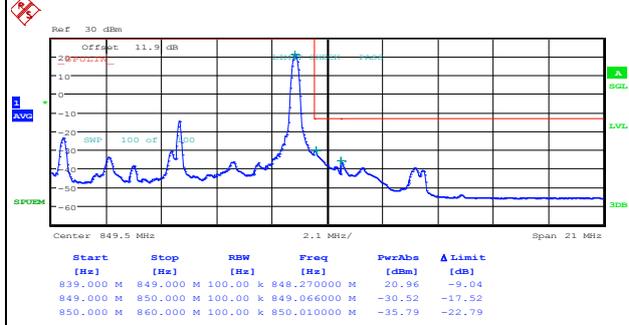
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



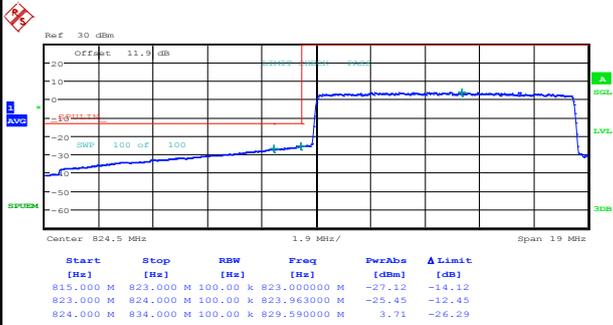
Date: 20.JAN.2015 19:53:55

Highest Band Edge / 1 RB



Date: 20.JAN.2015 20:06:13

Lowest Band Edge / Full RB



Date: 20.JAN.2015 19:56:32

Highest Band Edge / Full RB

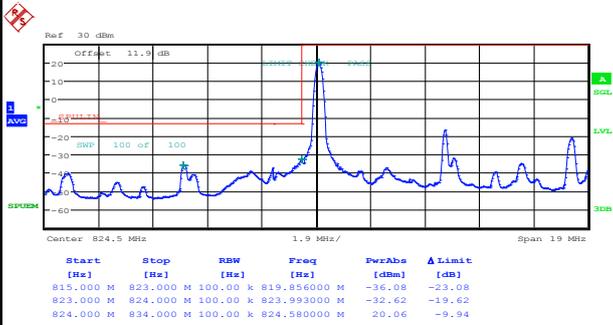


Date: 20.JAN.2015 20:08:44



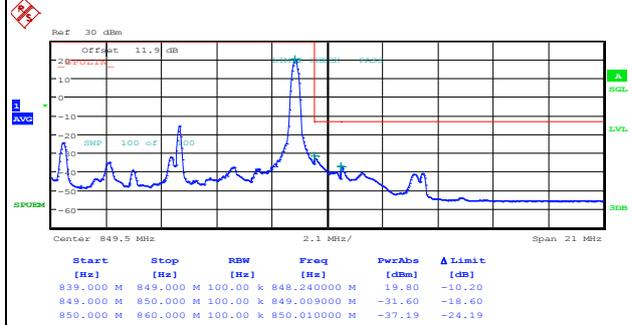
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



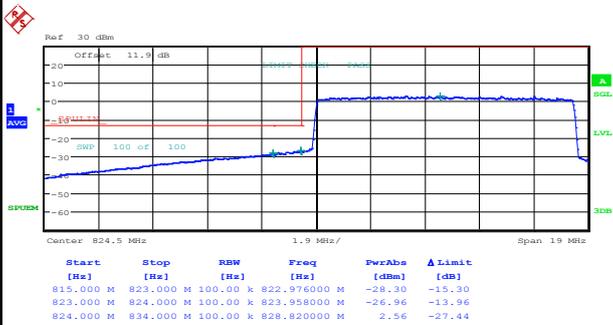
Date: 20.JAN.2015 19:55:17

Highest Band Edge / 1 RB



Date: 20.JAN.2015 20:07:29

Lowest Band Edge / Full RB



Date: 20.JAN.2015 19:57:47

Highest Band Edge / Full RB



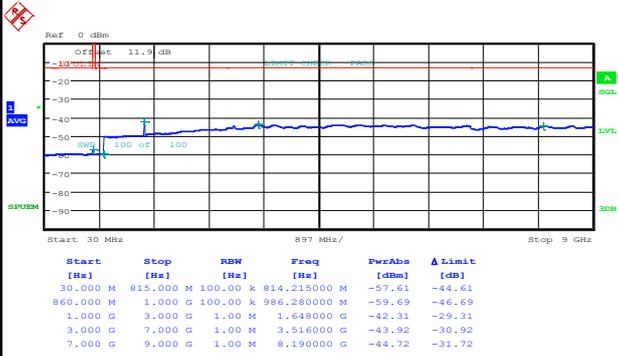
Date: 20.JAN.2015 20:09:58



Conducted Spurious Emission

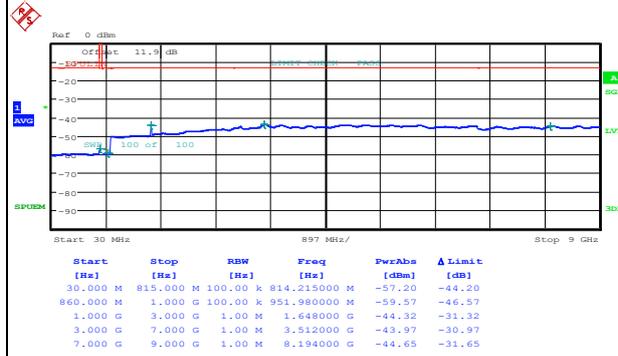
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



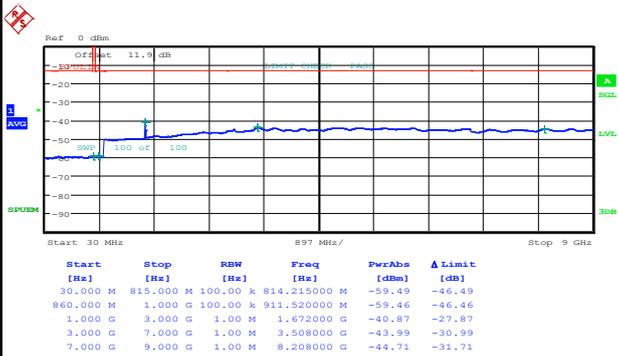
Date: 20.JAN.2015 20:19:52

Lowest Channel / 16QAM



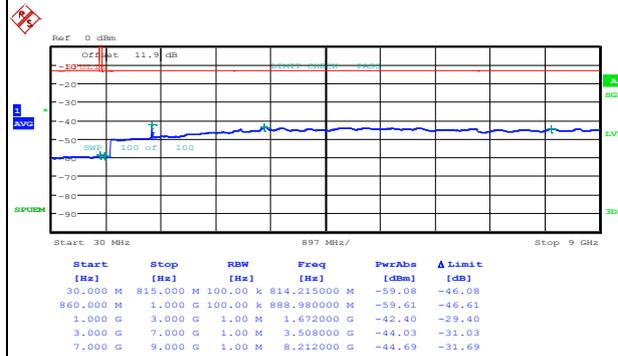
Date: 20.JAN.2015 20:21:07

Middle Channel / QPSK



Date: 20.JAN.2015 20:23:27

Middle Channel / 16QAM



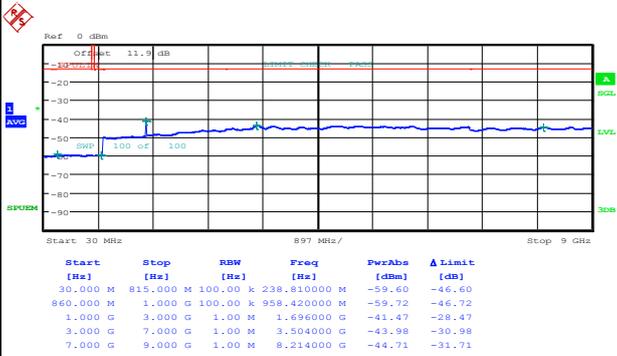
Date: 20.JAN.2015 20:24:42



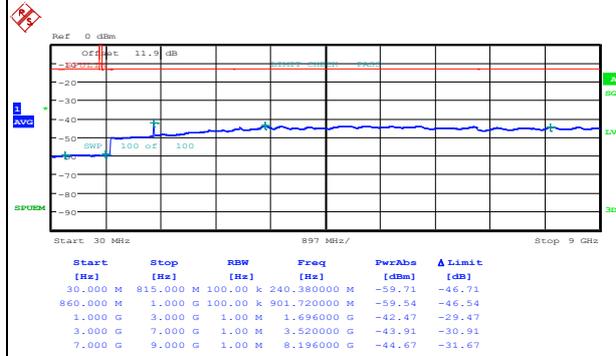
LTE Band 5 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20.JAN.2015 20:31:59

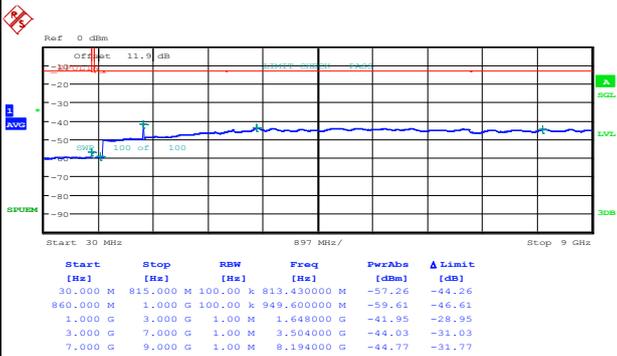


Date: 20.JAN.2015 20:33:16

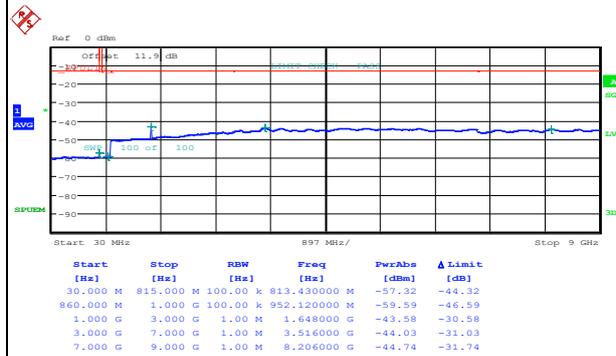
LTE Band 5 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 20.JAN.2015 19:16:48



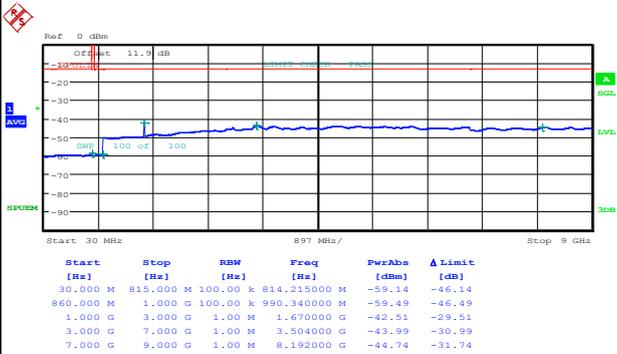
Date: 20.JAN.2015 19:18:03



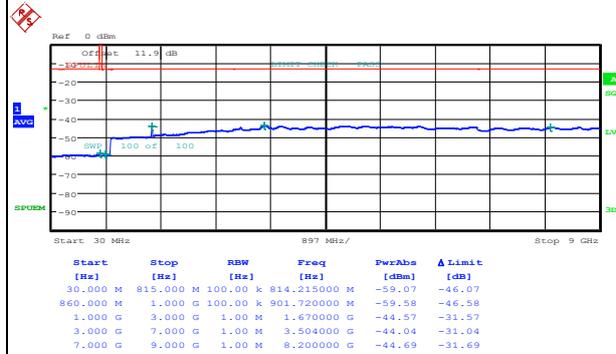
LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



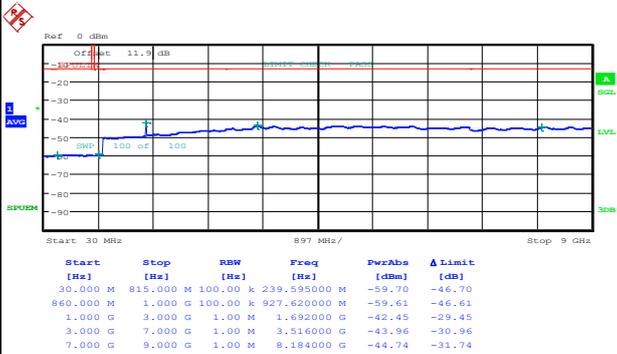
Date: 20.JAN.2015 19:20:21



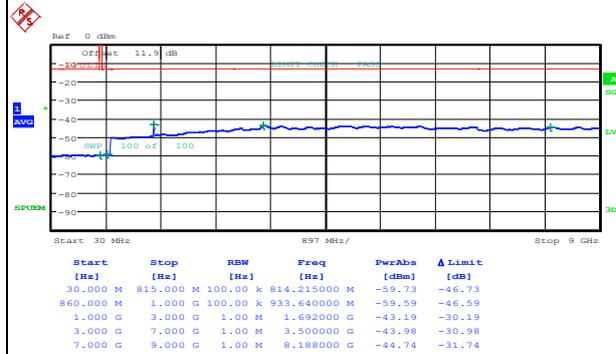
Date: 20.JAN.2015 19:21:36

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20.JAN.2015 19:28:53



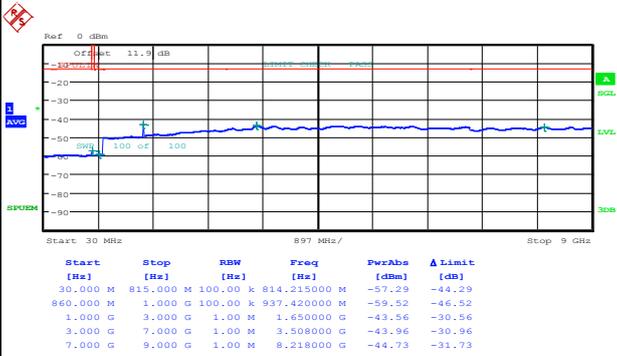
Date: 20.JAN.2015 19:30:08



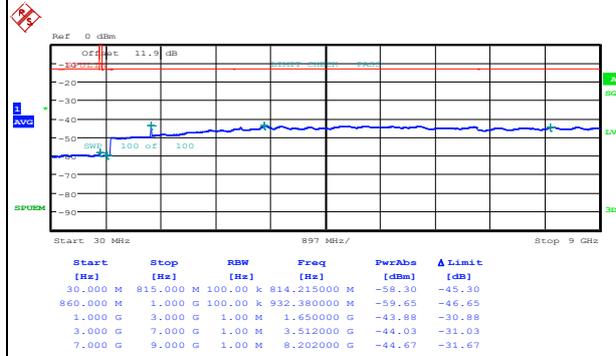
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



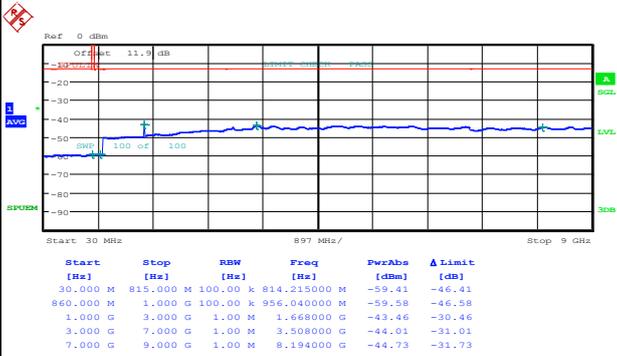
Date: 20.JAN.2015 19:37:32



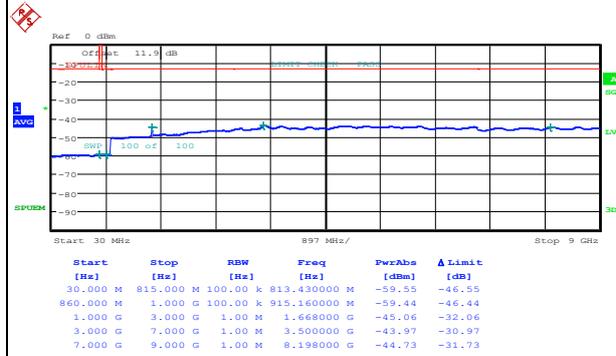
Date: 20.JAN.2015 19:38:46

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 20.JAN.2015 19:41:06

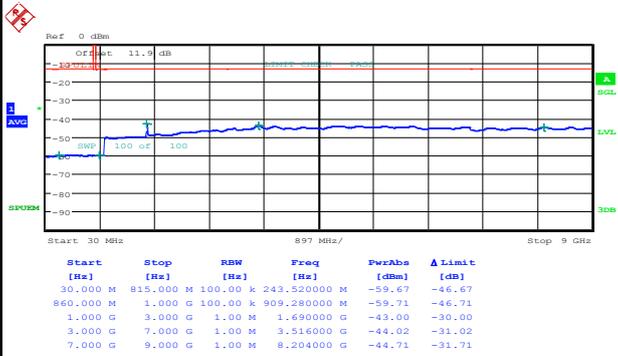


Date: 20.JAN.2015 19:42:20



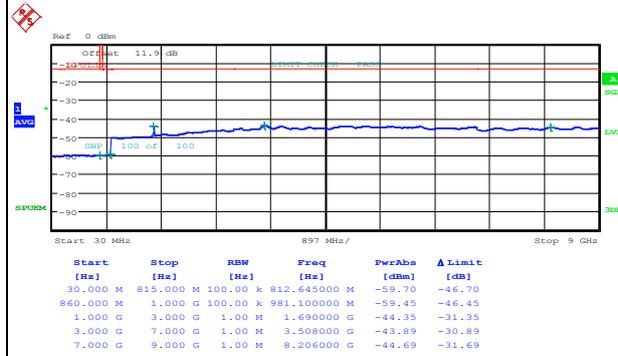
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 20.JAN.2015 19:49:42

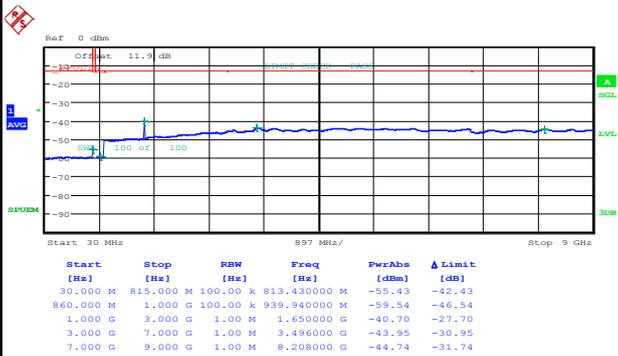
Highest Channel / 16QAM



Date: 20.JAN.2015 19:51:05

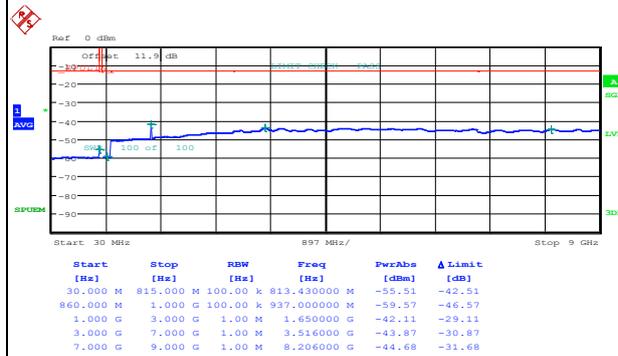
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 20.JAN.2015 19:59:02

Lowest Channel / 16QAM



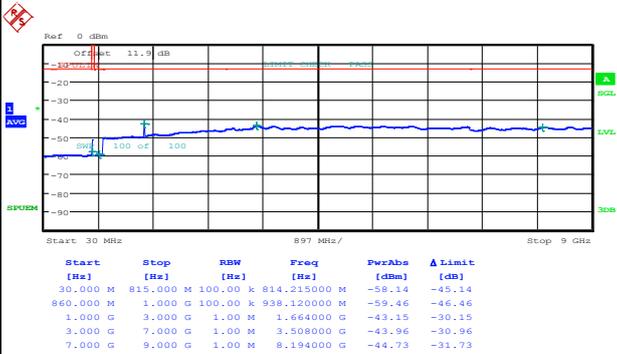
Date: 20.JAN.2015 20:00:18



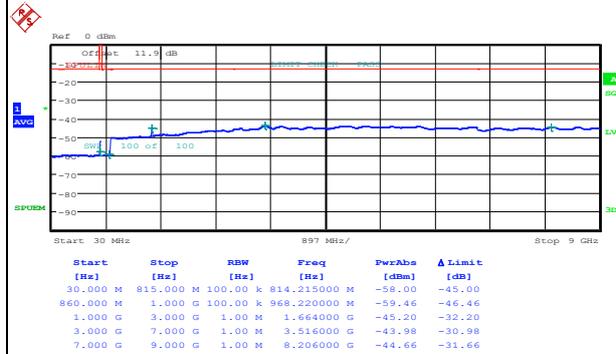
LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



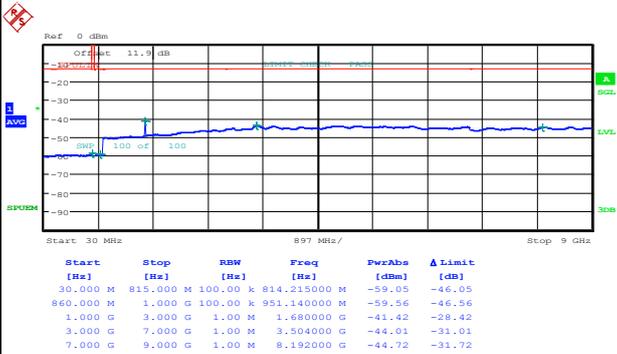
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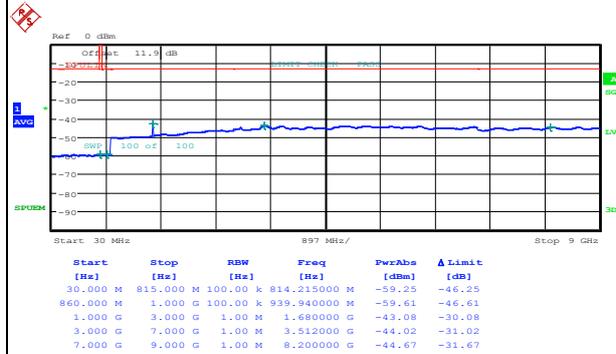
Date: 20.JAN.2015 20:03:53

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20.JAN.2015 20:11:14



Date: 20.JAN.2015 20:12:29



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0093	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0077	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0080	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0091	
-30	Normal Voltage	0.0082	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.