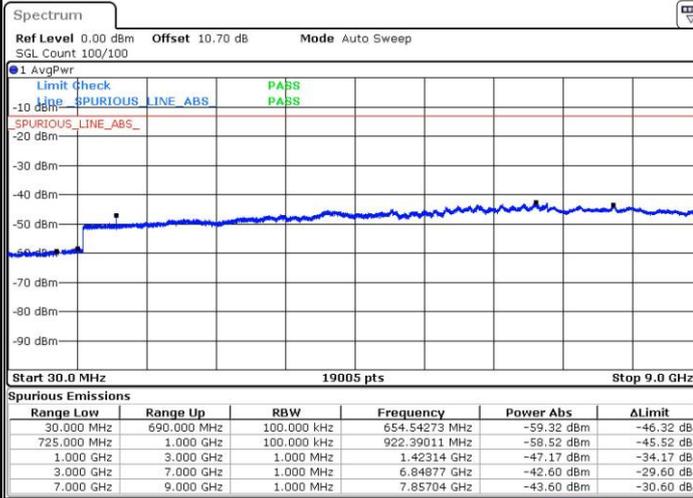




LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 9 JAN 2017 11:58:28

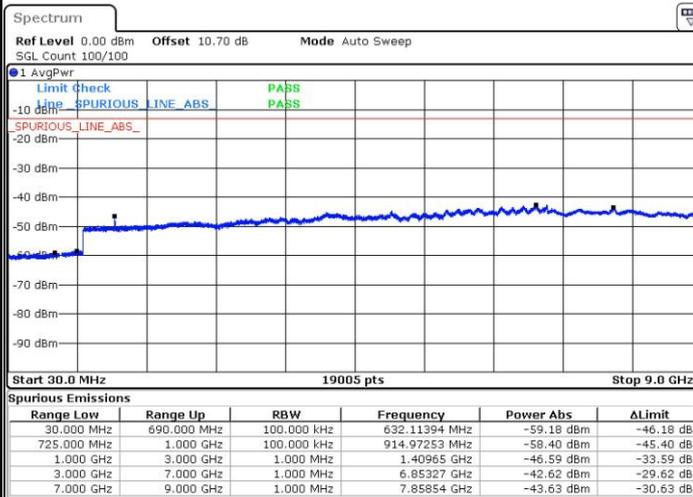
Highest Channel / 16QAM



Date: 9 JAN 2017 11:59:22

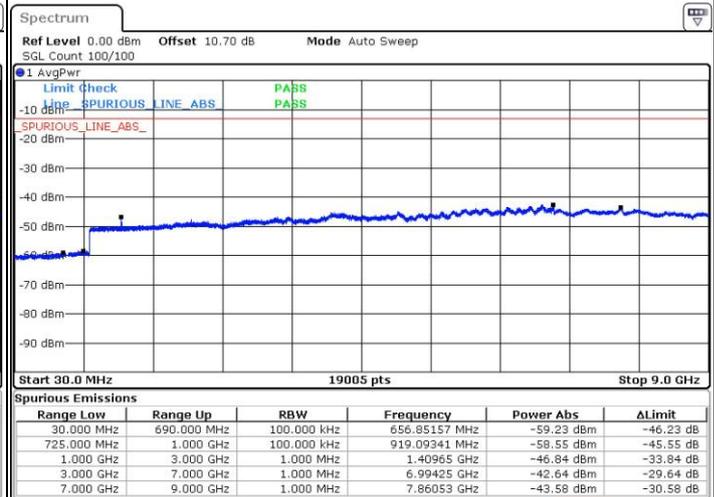
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 9 JAN 2017 12:05:34

Lowest Channel / 16QAM

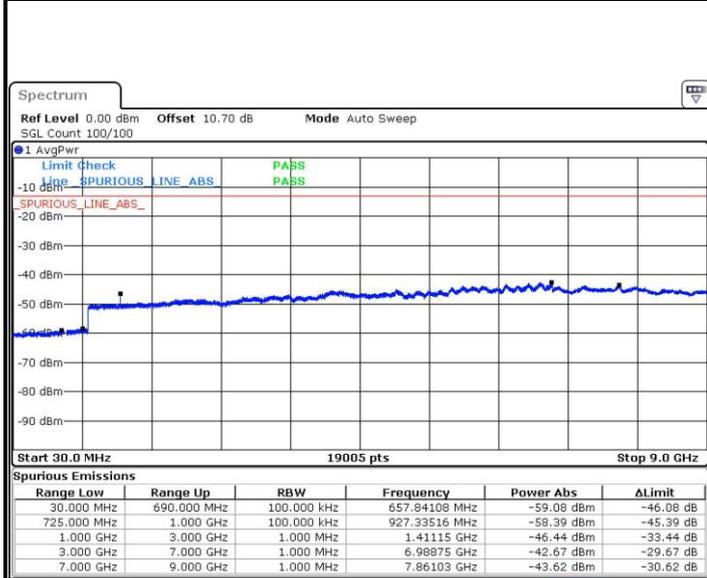


Date: 9 JAN 2017 12:06:28



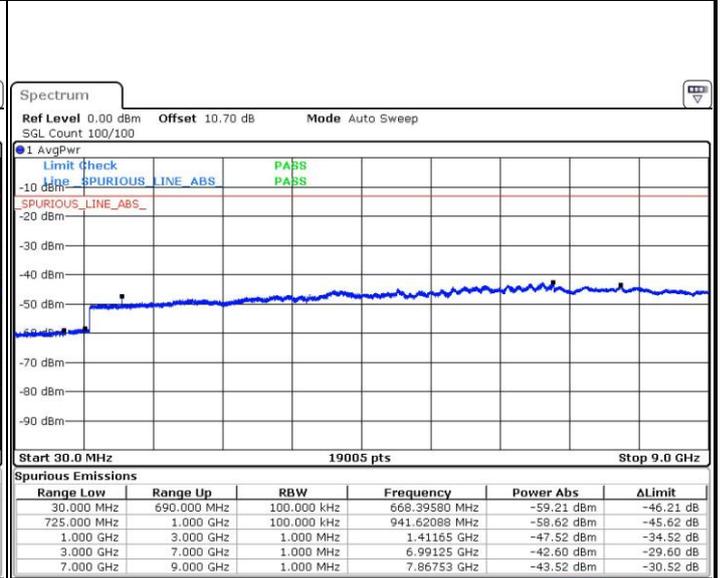
LTE Band 17 / 10MHz

Middle Channel / QPSK



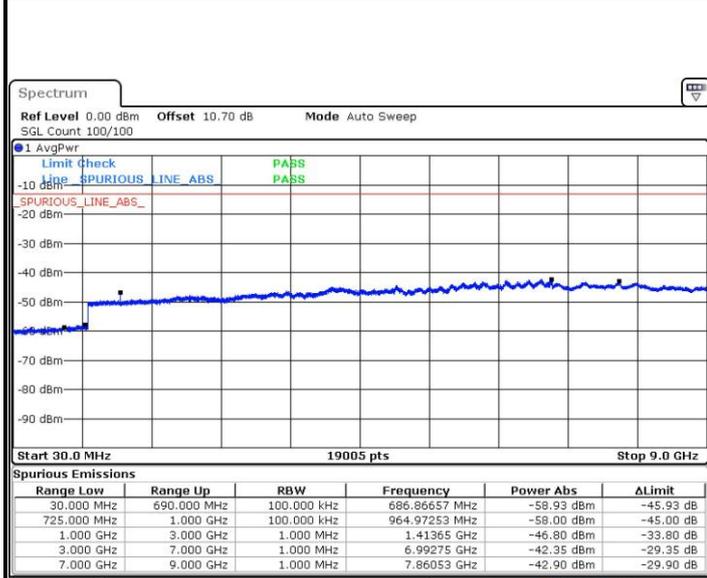
Date: 9 JAN 2017 12:08:04

Middle Channel / 16QAM



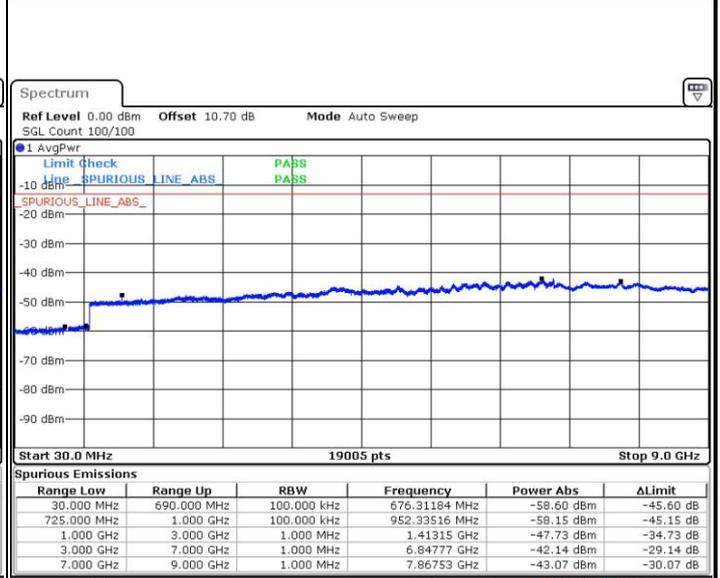
Date: 9 JAN 2017 12:08:58

Highest Channel / QPSK



Date: 11 JAN 2017 10:49:20

Highest Channel / 16QAM



Date: 11 JAN 2017 10:50:15



Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0070	
30	Normal Voltage	0.0051	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0058	
-30	Normal Voltage	0.0062	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38

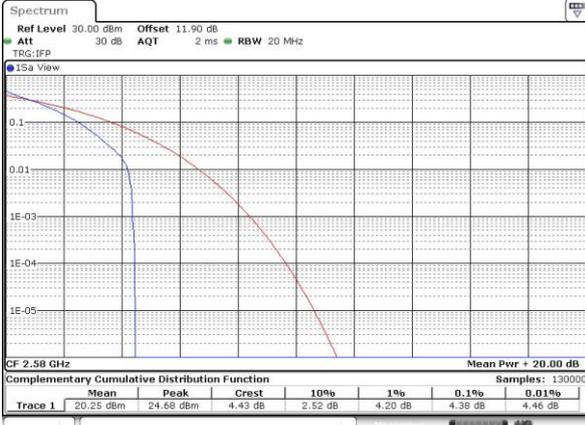
Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.38	4.96	5.3	5.91	PASS
Middle CH	4.46	4.99	5.39	5.94	
Highest CH	4.46	4.96	5.62	5.88	



LTE Band 38 / 20MHz / QPSK

Lowest Channel / 1RB



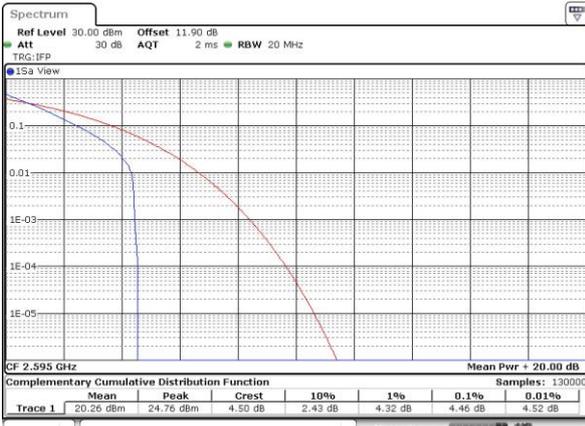
Date: 11 JAN 2017 16:57:09

Lowest Channel / Full RB



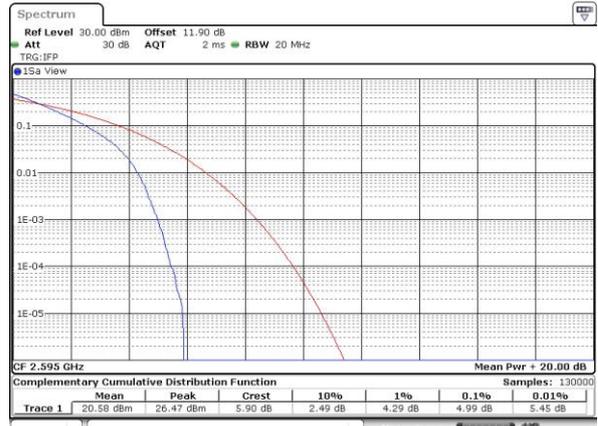
Date: 11 JAN 2017 16:52:55

Middle Channel / 1RB



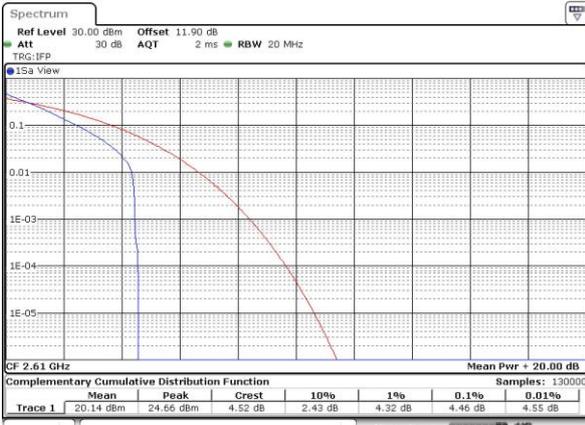
Date: 11 JAN 2017 16:53:17

Middle Channel / Full RB



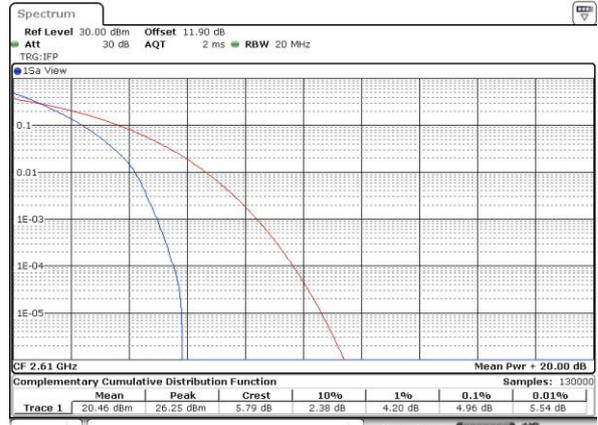
Date: 11 JAN 2017 16:53:45

Highest Channel / 1RB



Date: 11 JAN 2017 16:54:06

Highest Channel / Full RB



Date: 11 JAN 2017 16:54:29



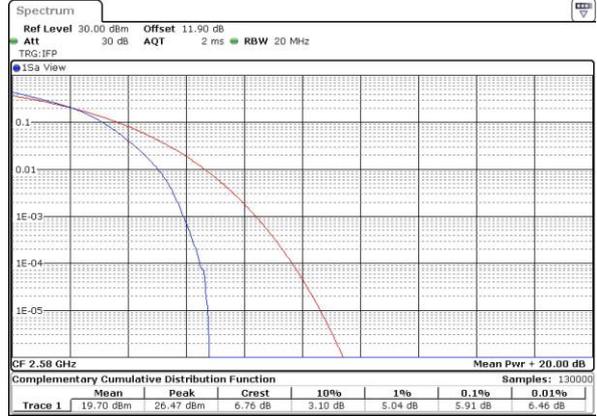
LTE Band 38 / 20MHz / 16QAM

Lowest Channel / 1RB



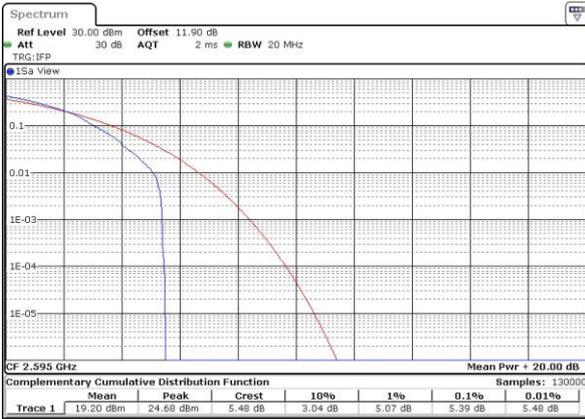
Date: 11 JAN 2017 16:55:25

Lowest Channel / Full RB



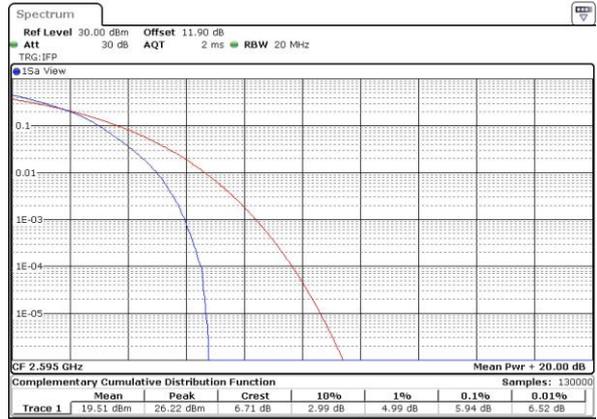
Date: 11 JAN 2017 16:55:40

Middle Channel / 1RB



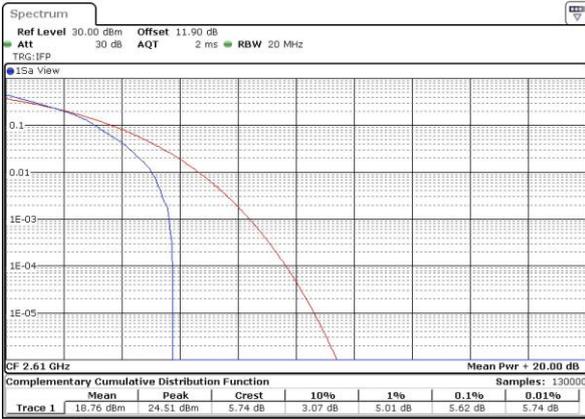
Date: 11 JAN 2017 16:55:57

Middle Channel / Full RB



Date: 11 JAN 2017 16:56:13

Highest Channel / 1RB



Date: 11 JAN 2017 16:56:29

Highest Channel / Full RB



Date: 11 JAN 2017 16:56:43



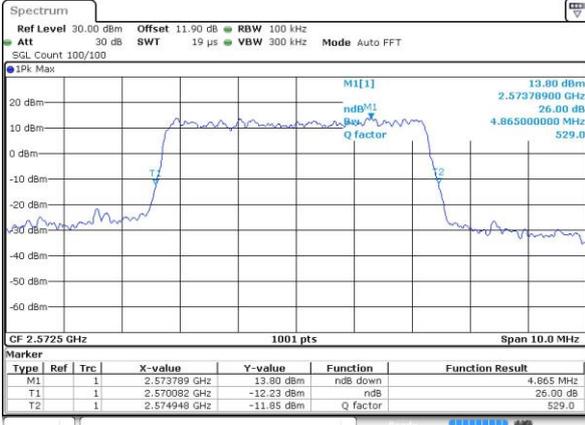
26dB Bandwidth

Mode	LTE Band 38 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.865	4.875	9.67	9.65	14.266	14.176	20.18	20.1
Middle CH	-	-	-	-	4.785	5.095	9.65	9.71	14.266	14.326	20.18	20.22
Highest CH	-	-	-	-	4.875	4.905	9.87	9.71	14.416	14.416	20.14	20.22



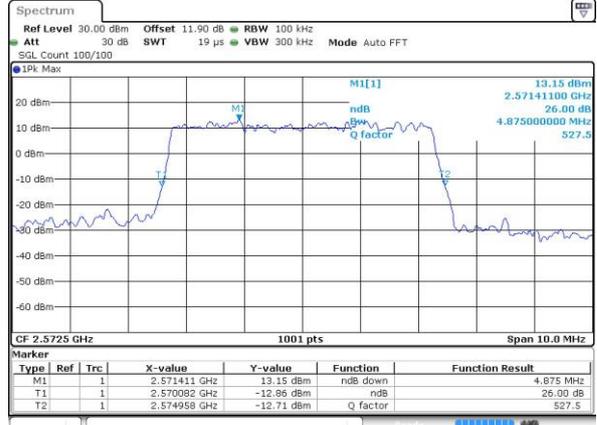
LTE Band 38

Lowest Channel / 5MHz / QPSK



Date: 11 JAN 2017 15:37:26

Lowest Channel / 5MHz / 16QAM



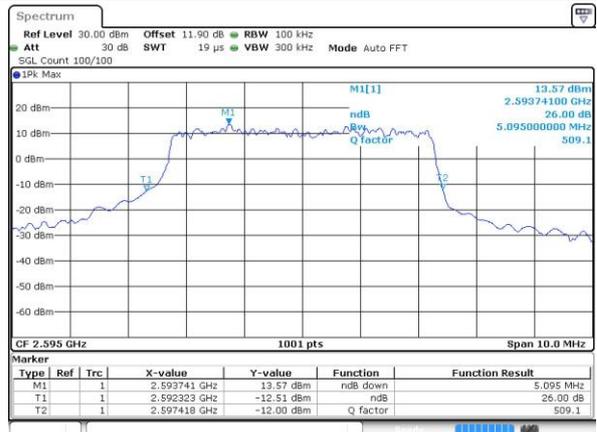
Date: 11 JAN 2017 15:37:36

Middle Channel / 5MHz / QPSK



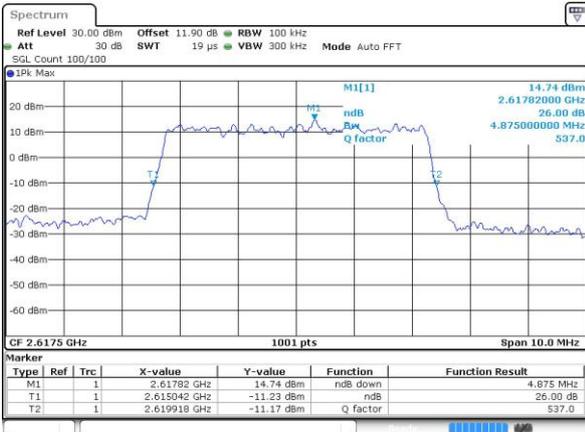
Date: 11 JAN 2017 15:38:08

Middle Channel / 5MHz / 16QAM



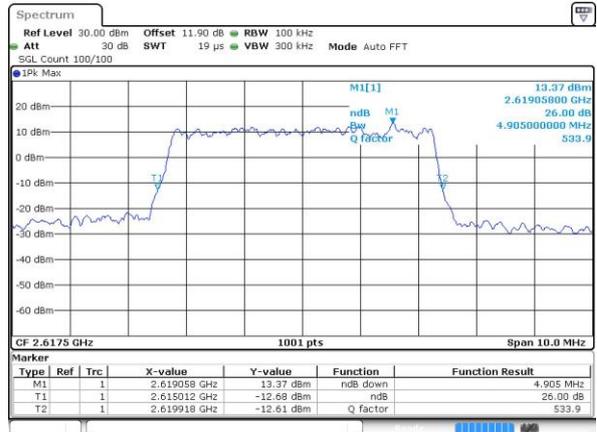
Date: 11 JAN 2017 15:38:18

Highest Channel / 5MHz / QPSK



Date: 11 JAN 2017 15:38:49

Highest Channel / 5MHz / 16QAM

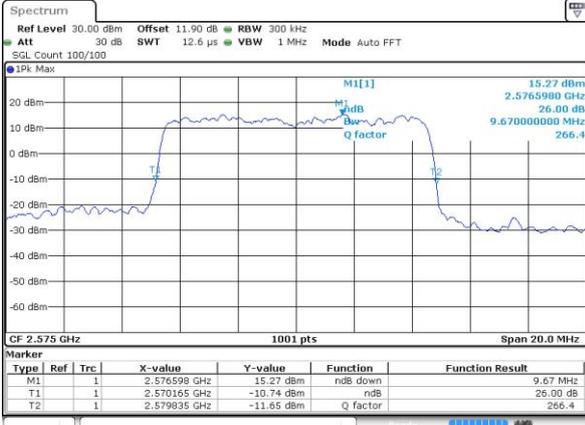


Date: 11 JAN 2017 15:39:00



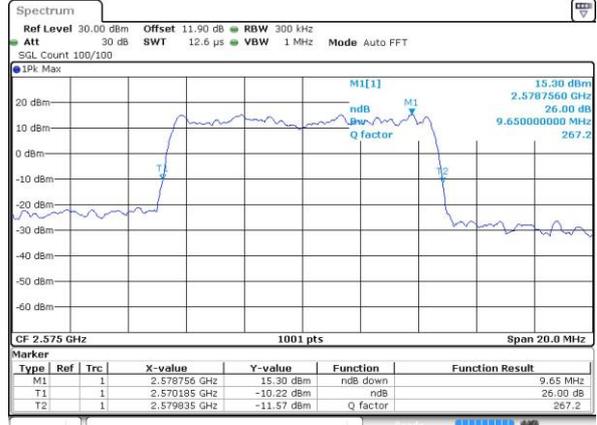
LTE Band 38

Lowest Channel / 10MHz / QPSK



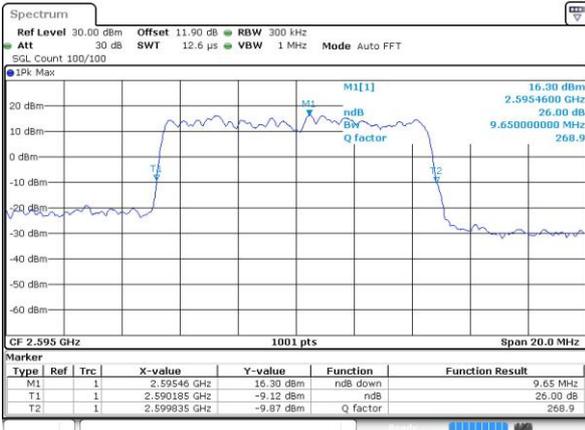
Date: 11 JAN 2017 15:39:31

Lowest Channel / 10MHz / 16QAM



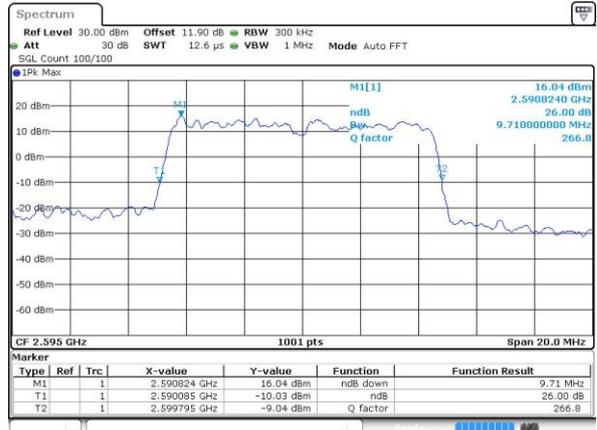
Date: 11 JAN 2017 15:39:41

Middle Channel / 10MHz / QPSK



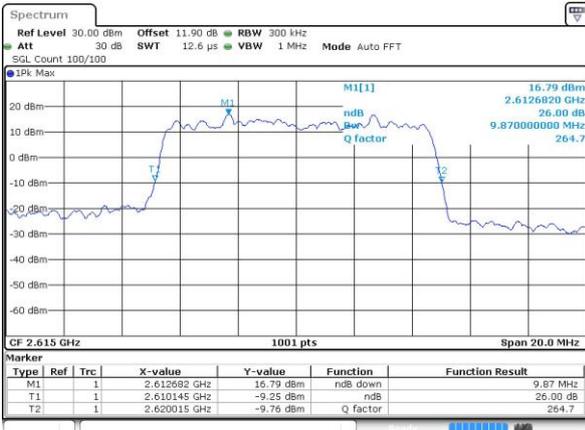
Date: 11 JAN 2017 15:40:12

Middle Channel / 10MHz / 16QAM



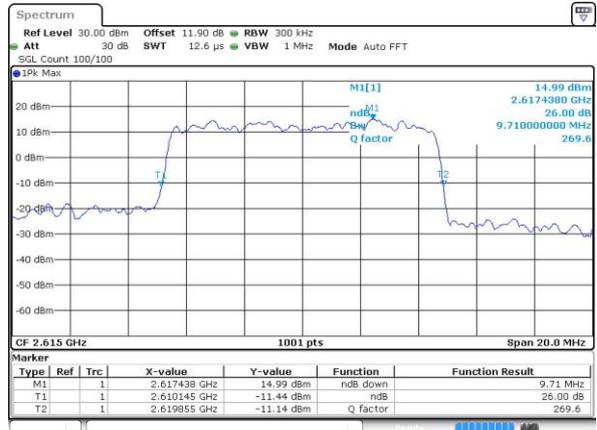
Date: 11 JAN 2017 15:40:23

Highest Channel / 10MHz / QPSK



Date: 11 JAN 2017 15:40:54

Highest Channel / 10MHz / 16QAM

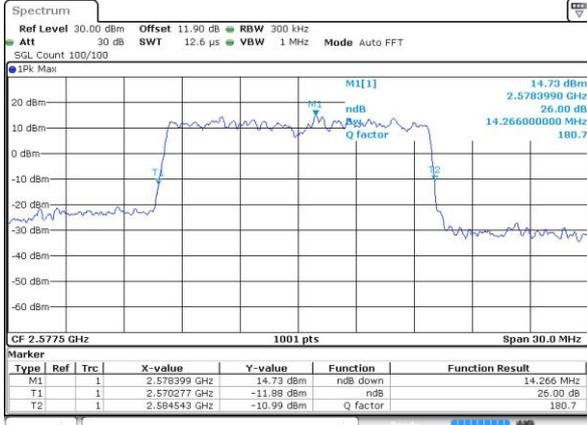


Date: 11 JAN 2017 15:41:04



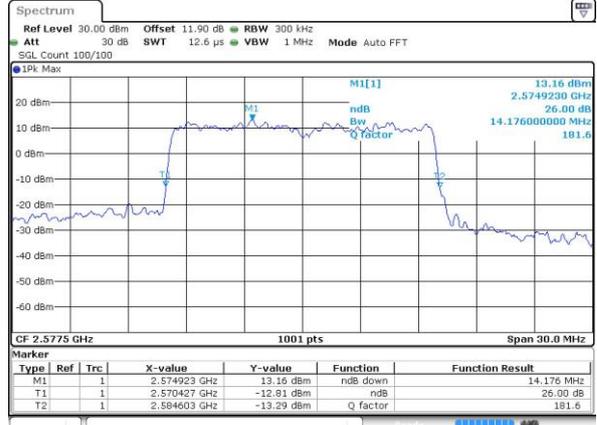
LTE Band 38

Lowest Channel / 15MHz / QPSK



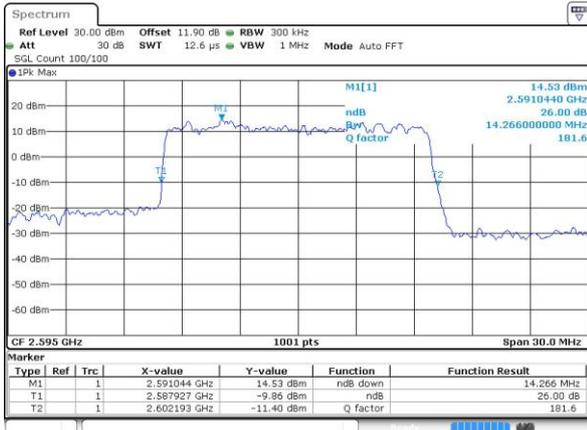
Date: 11 JAN 2017 15:41:36

Lowest Channel / 15MHz / 16QAM



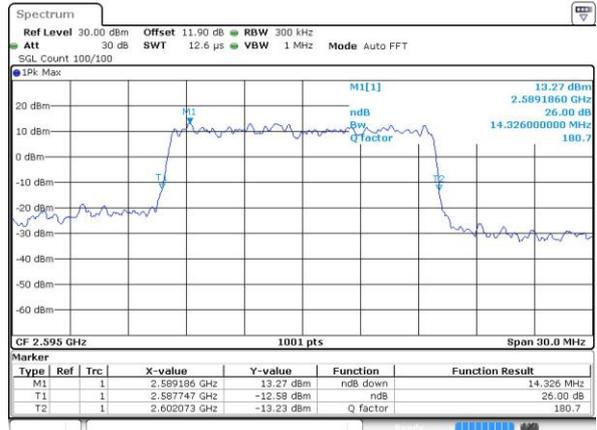
Date: 11 JAN 2017 15:41:46

Middle Channel / 15MHz / QPSK



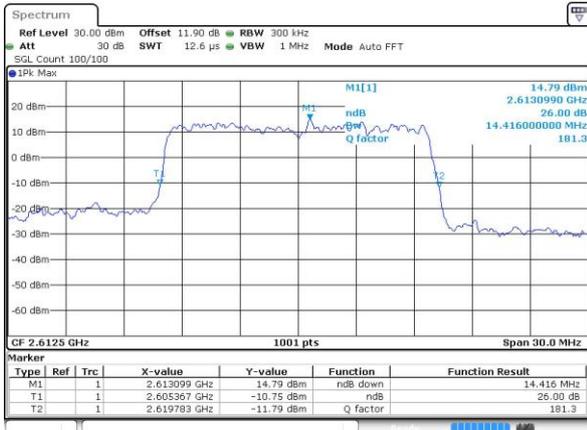
Date: 11 JAN 2017 16:57:50

Middle Channel / 15MHz / 16QAM



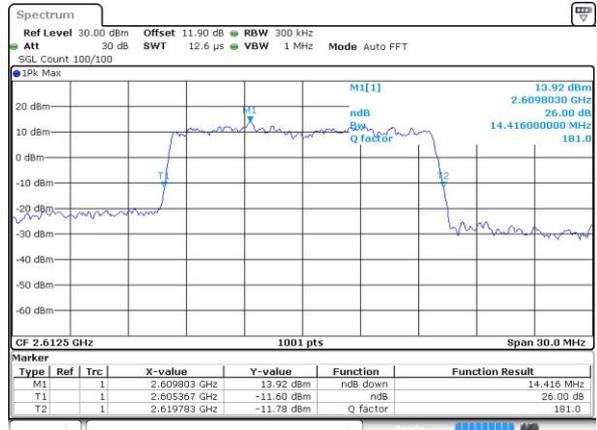
Date: 11 JAN 2017 16:58:02

Highest Channel / 15MHz / QPSK



Date: 11 JAN 2017 16:48:36

Highest Channel / 15MHz / 16QAM

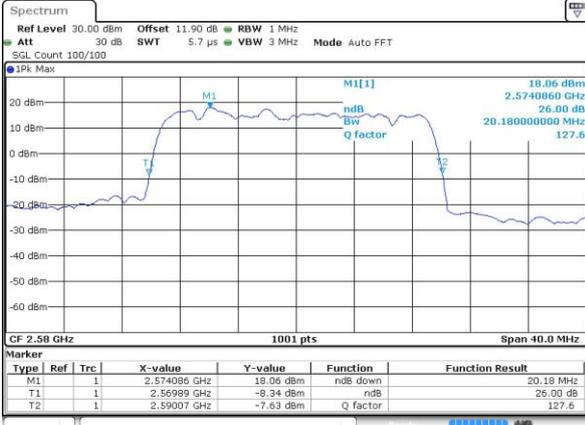


Date: 11 JAN 2017 16:48:47



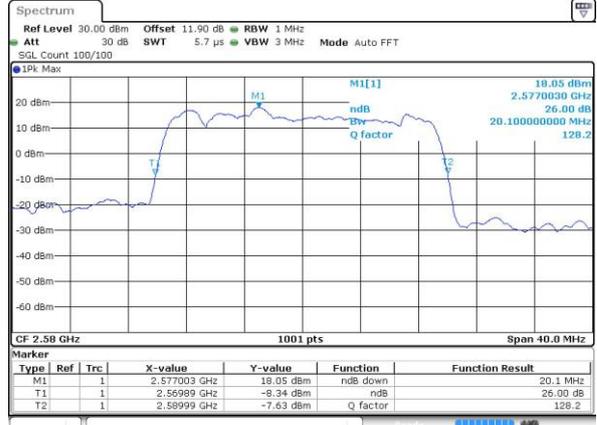
LTE Band 38

Lowest Channel / 20MHz / QPSK



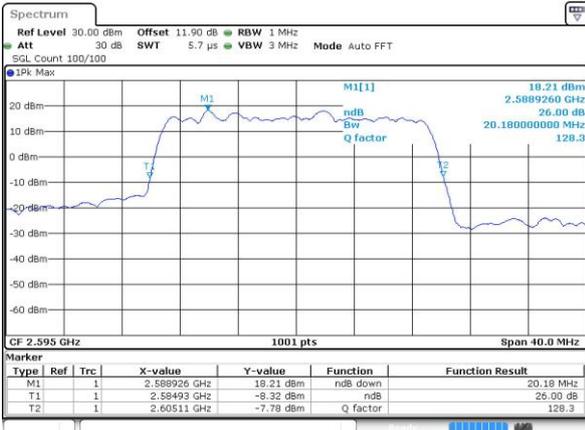
Date: 11 JAN 2017 16:49:18

Lowest Channel / 20MHz / 16QAM



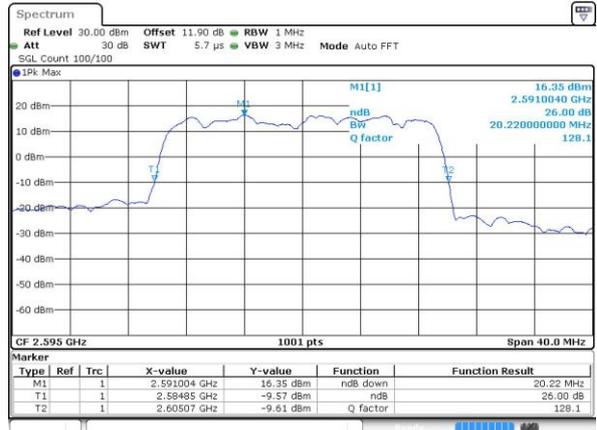
Date: 11 JAN 2017 16:49:28

Middle Channel / 20MHz / QPSK



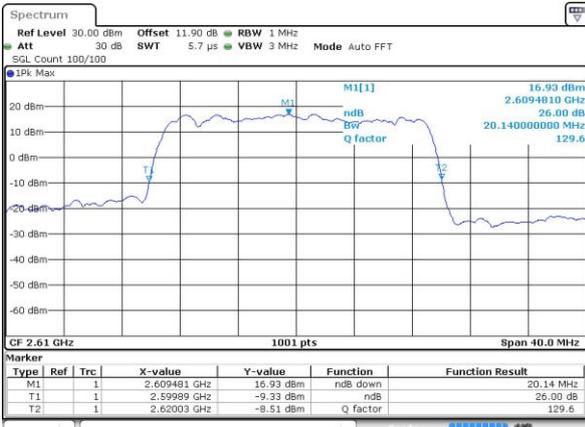
Date: 11 JAN 2017 16:49:59

Middle Channel / 20MHz / 16QAM



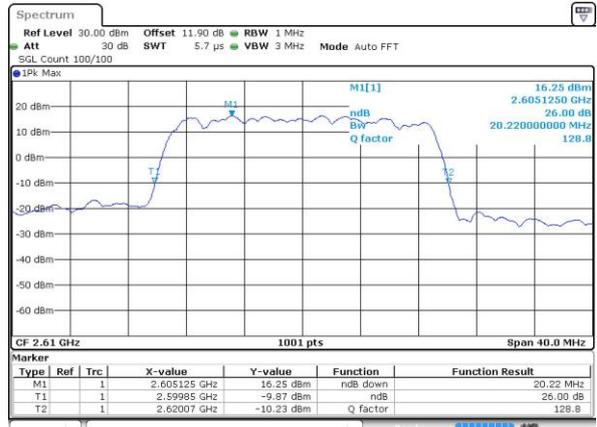
Date: 11 JAN 2017 16:50:09

Highest Channel / 20MHz / QPSK



Date: 11 JAN 2017 16:50:41

Highest Channel / 20MHz / 16QAM



Date: 11 JAN 2017 16:50:51



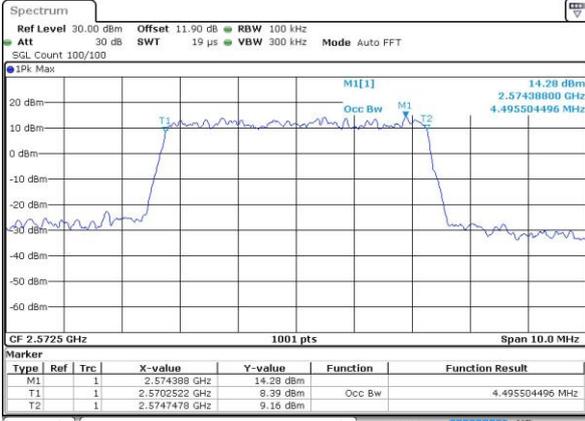
Occupied Bandwidth

Mode	LTE Band 38 : 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	-	-	-	-	4.5	4.5	9.03	9.03	13.49	13.4	18.5	18.42
Middle CH	-	-	-	-	4.49	4.49	9.01	9.01	13.55	13.52	18.58	18.5
Highest CH	-	-	-	-	4.48	4.47	9.09	9.03	13.49	13.49	18.22	18.42



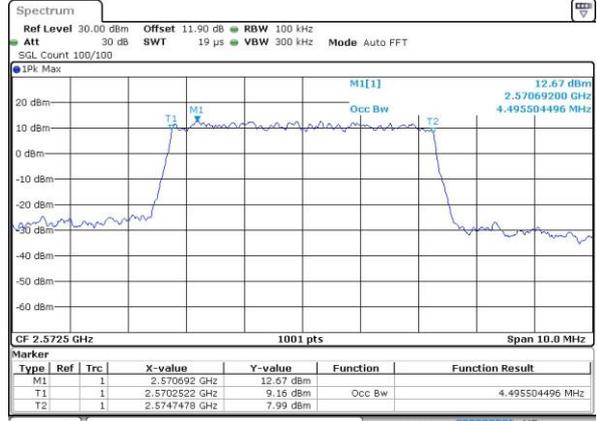
LTE Band 38

Lowest Channel / 5MHz / QPSK



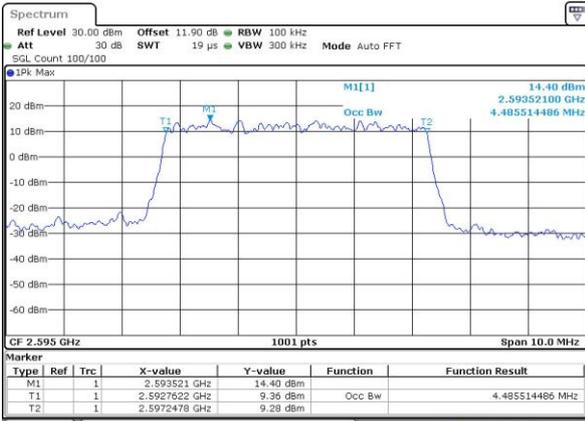
Date: 11, JAN 2017 15:37:05

Lowest Channel / 5MHz / 16QAM



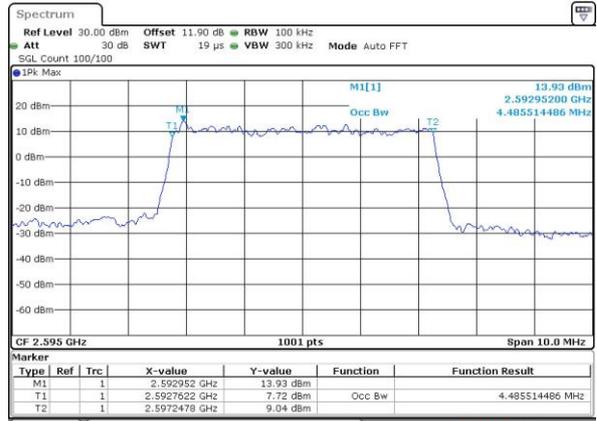
Date: 11, JAN 2017 15:37:16

Middle Channel / 5MHz / QPSK



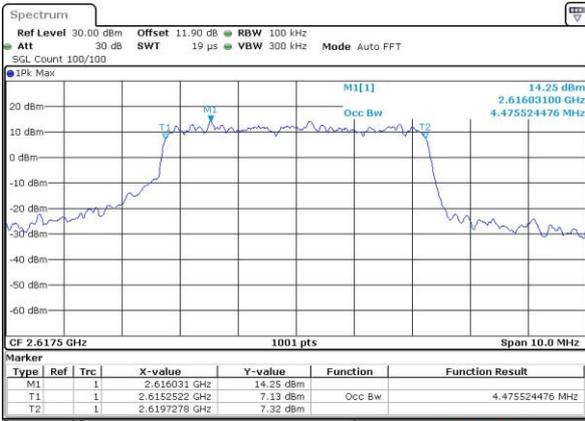
Date: 11, JAN 2017 15:37:47

Middle Channel / 5MHz / 16QAM



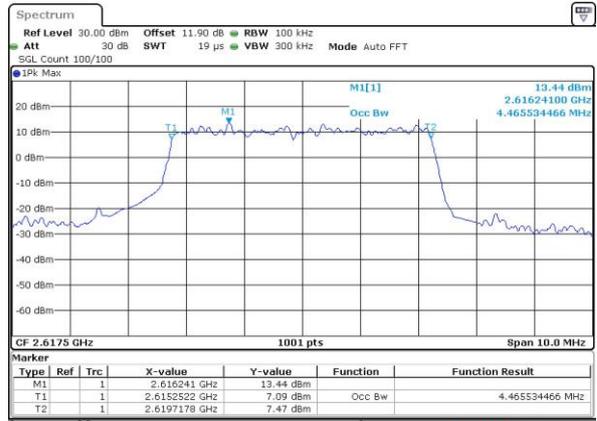
Date: 11, JAN 2017 15:37:57

Highest Channel / 5MHz / QPSK



Date: 11, JAN 2017 15:38:28

Highest Channel / 5MHz / 16QAM

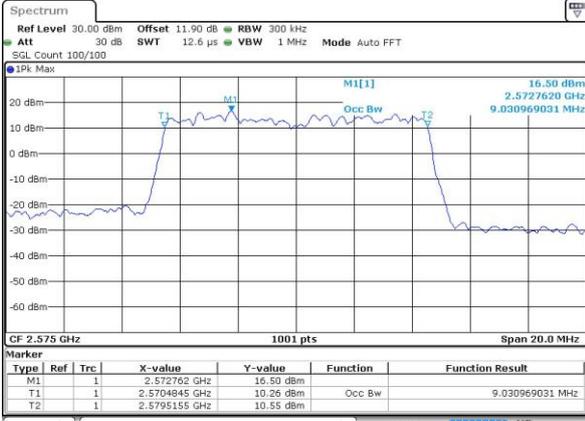


Date: 11, JAN 2017 15:38:39



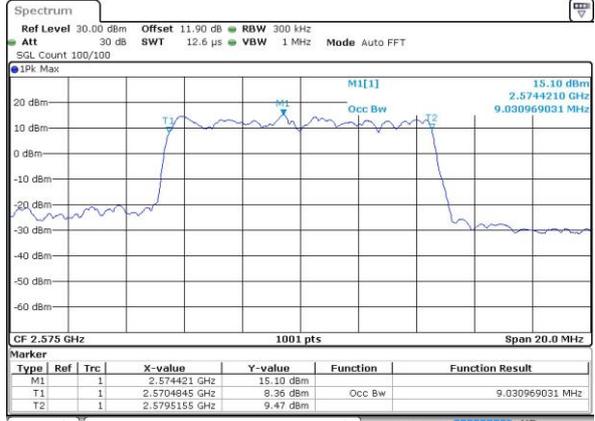
LTE Band 38

Lowest Channel / 10MHz / QPSK



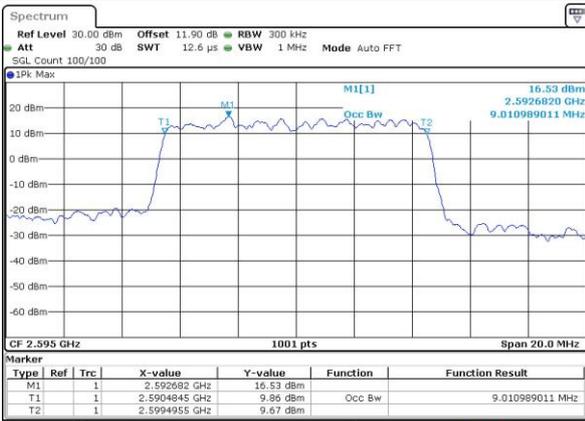
Date: 11 JAN 2017 15:39:10

Lowest Channel / 10MHz / 16QAM



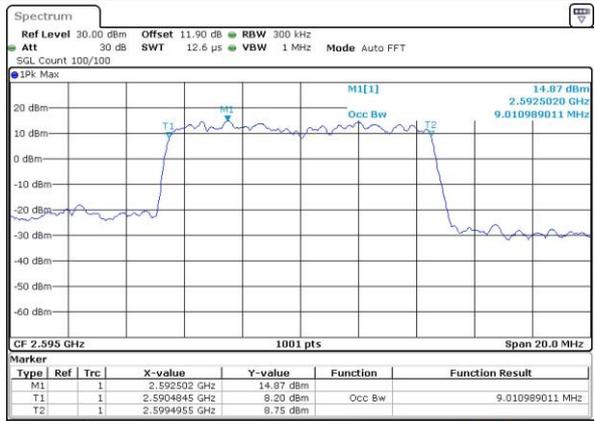
Date: 11 JAN 2017 15:39:20

Middle Channel / 10MHz / QPSK



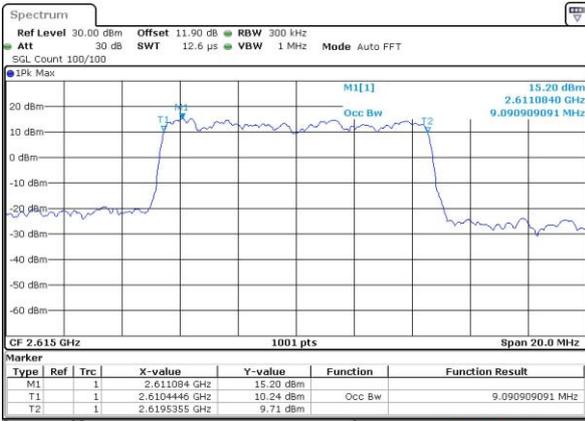
Date: 11 JAN 2017 15:39:51

Middle Channel / 10MHz / 16QAM



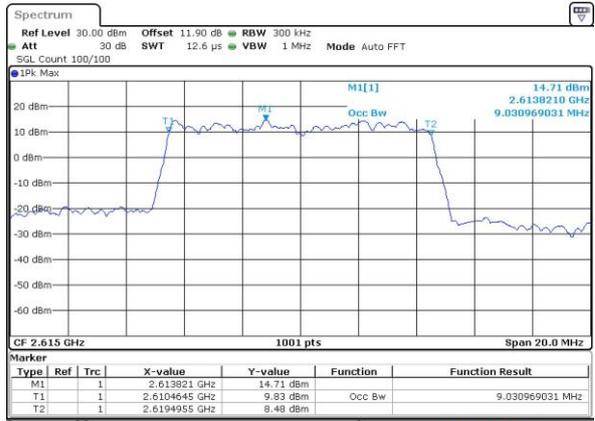
Date: 11 JAN 2017 15:40:02

Highest Channel / 10MHz / QPSK



Date: 11 JAN 2017 15:40:33

Highest Channel / 10MHz / 16QAM

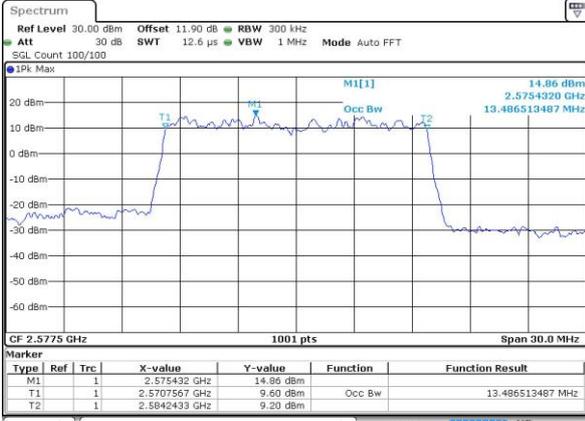


Date: 11 JAN 2017 15:40:43



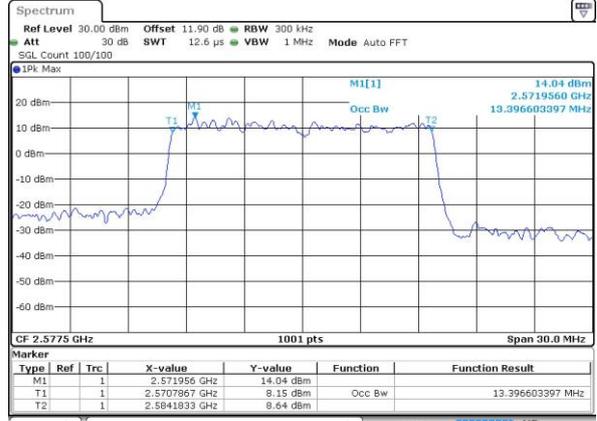
LTE Band 38

Lowest Channel / 15MHz / QPSK



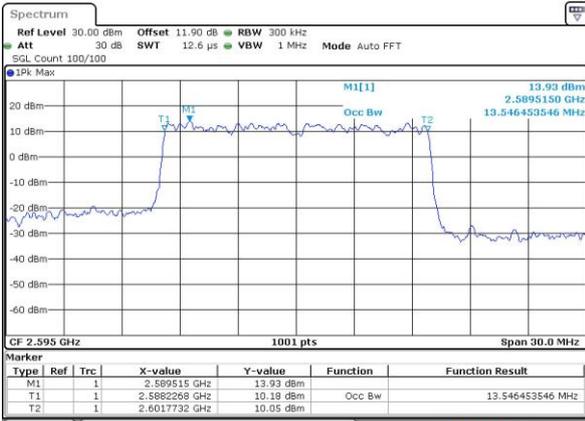
Date: 11 JAN 2017 15:41:15

Lowest Channel / 15MHz / 16QAM



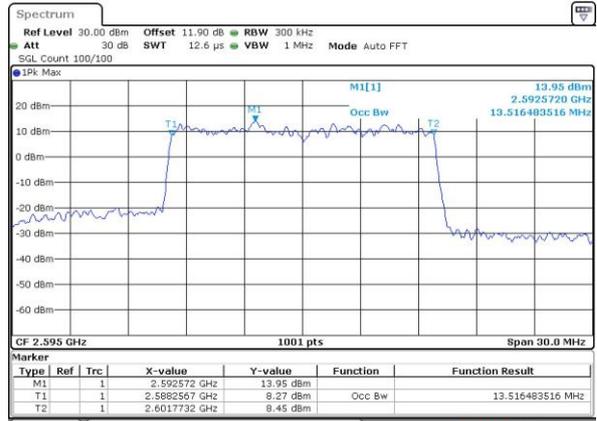
Date: 11 JAN 2017 15:41:25

Middle Channel / 15MHz / QPSK



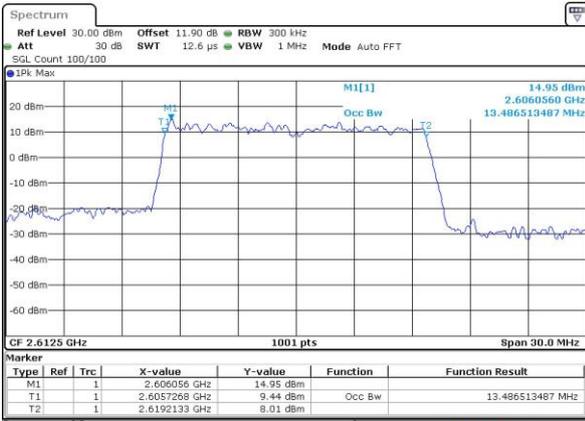
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Middle Channel / 15MHz / 16QAM



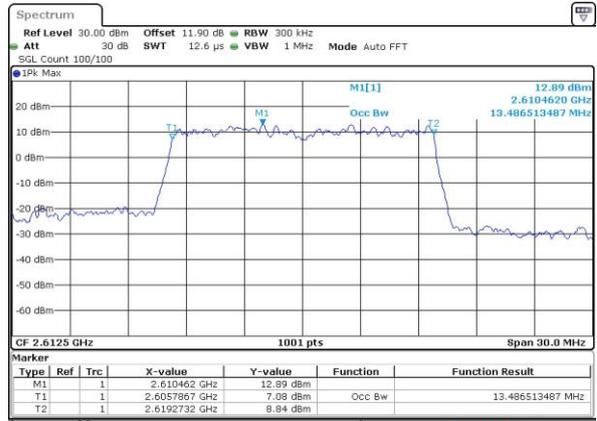
Date: 11 JAN 2017 15:42:07

Highest Channel / 15MHz / QPSK



Date: 11 JAN 2017 16:48:15

Highest Channel / 15MHz / 16QAM

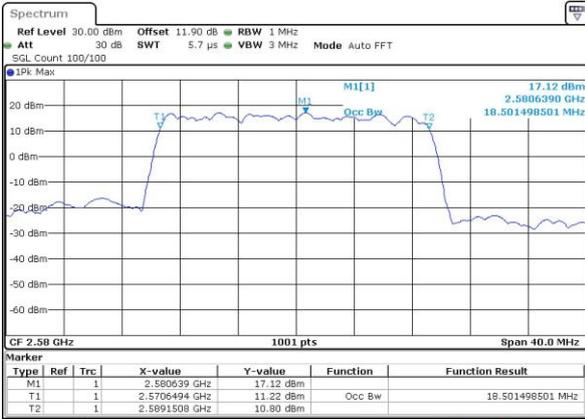


Date: 11 JAN 2017 16:48:26



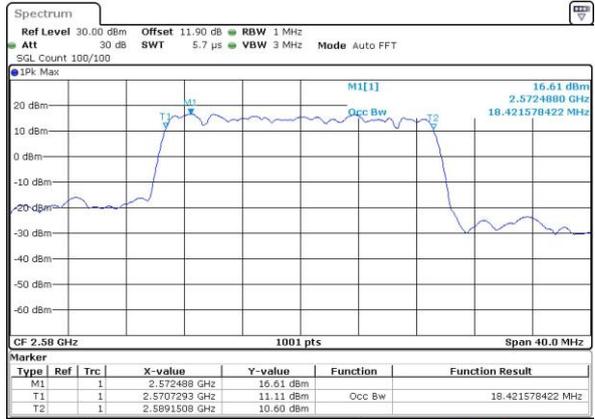
LTE Band 38

Lowest Channel / 20MHz / QPSK



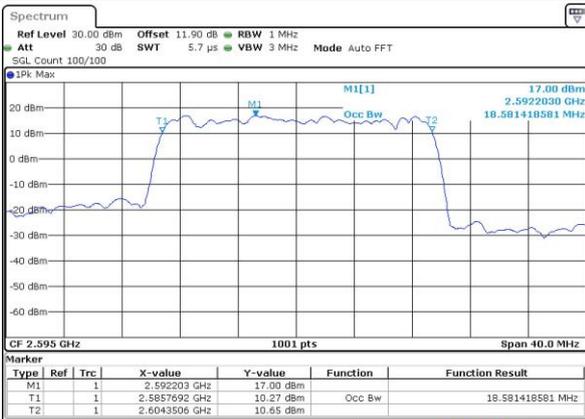
Date: 11 JAN 2017 16:48:57

Lowest Channel / 20MHz / 16QAM



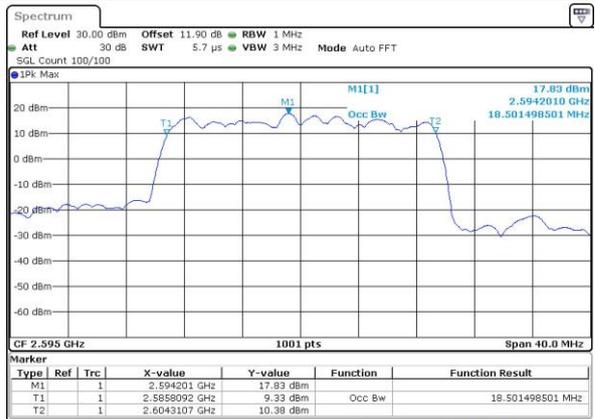
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Middle Channel / 20MHz / QPSK



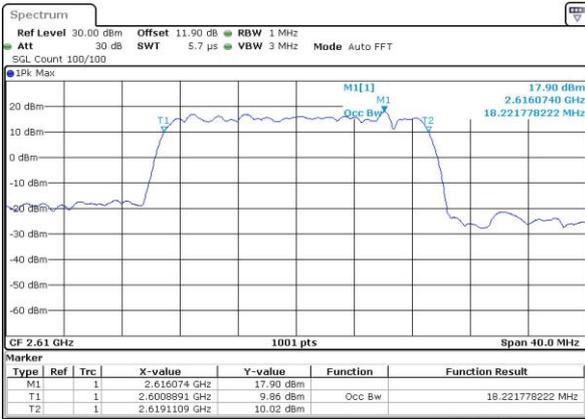
Date: 11 JAN 2017 16:49:39

Middle Channel / 20MHz / 16QAM



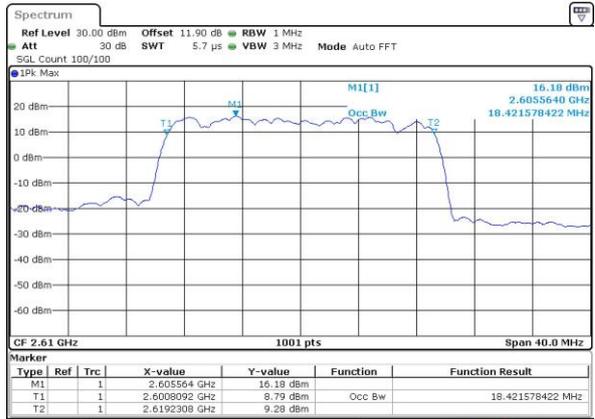
Date: 11 JAN 2017 16:49:49

Highest Channel / 20MHz / QPSK



Date: 11 JAN 2017 16:50:20

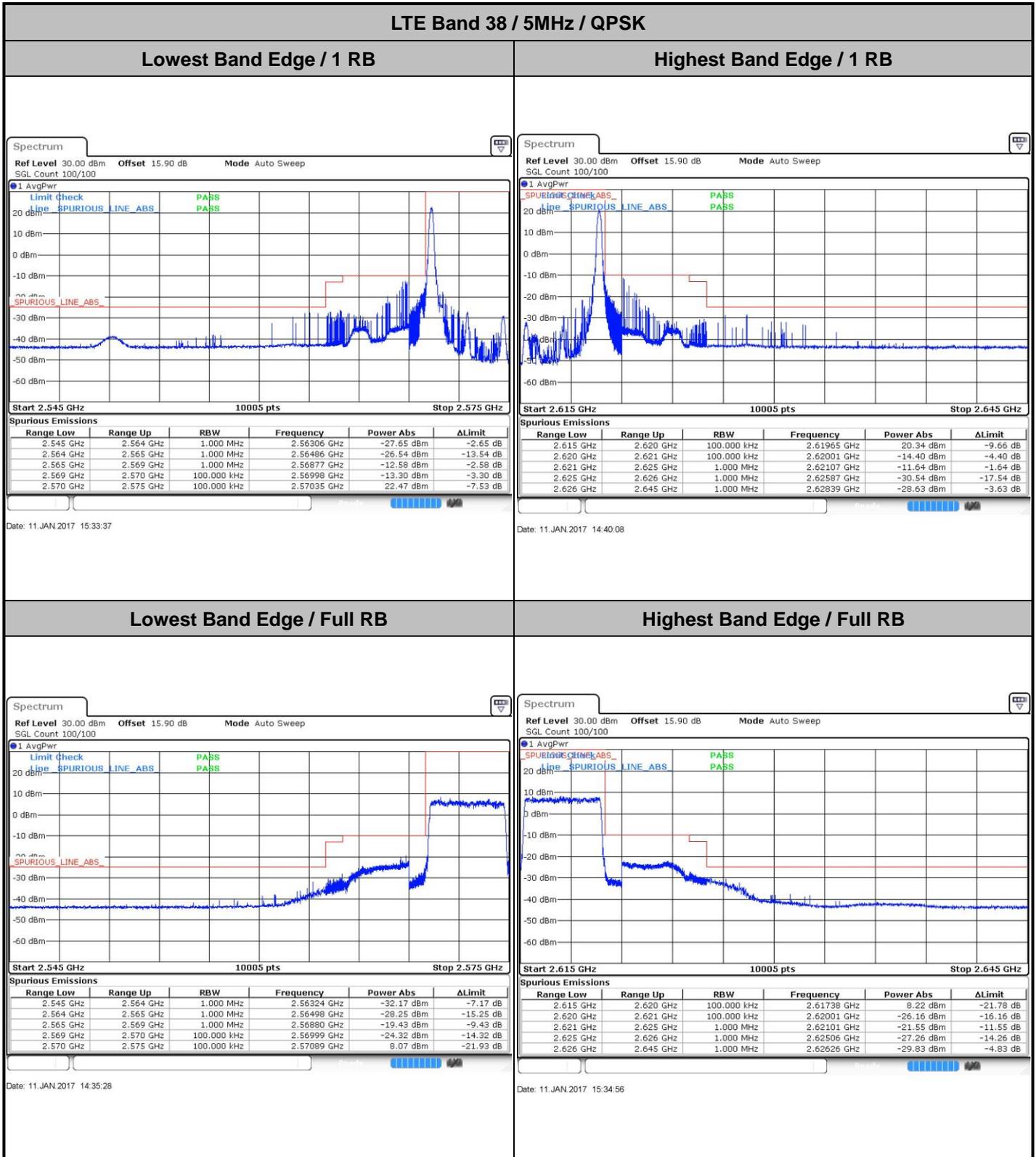
Highest Channel / 20MHz / 16QAM



Date: 11 JAN 2017 16:50:30



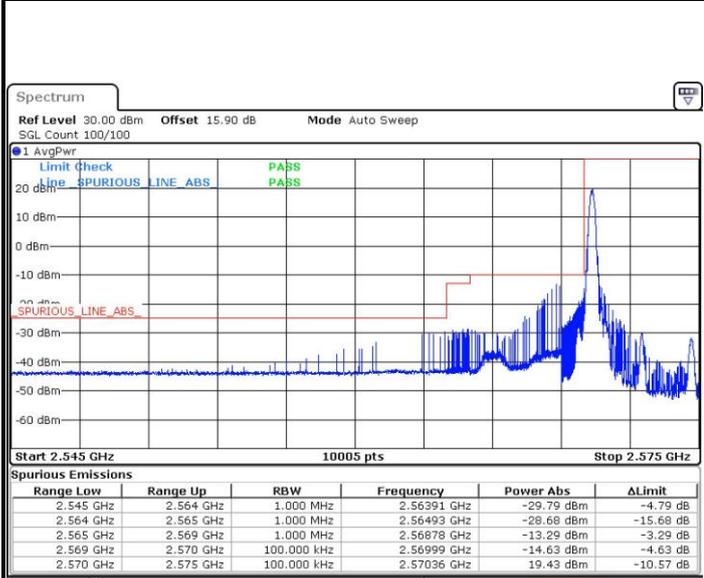
Conducted Band Edge





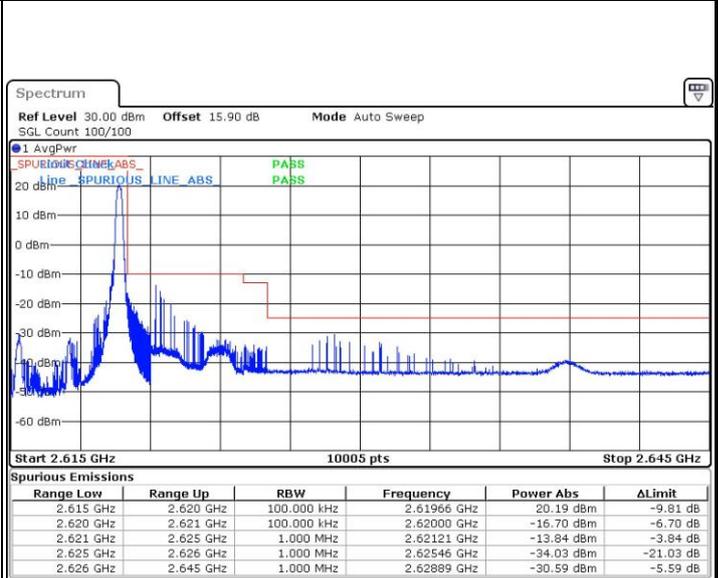
LTE Band 38 / 5MHz / 16QAM

Lowest Band Edge / 1RB



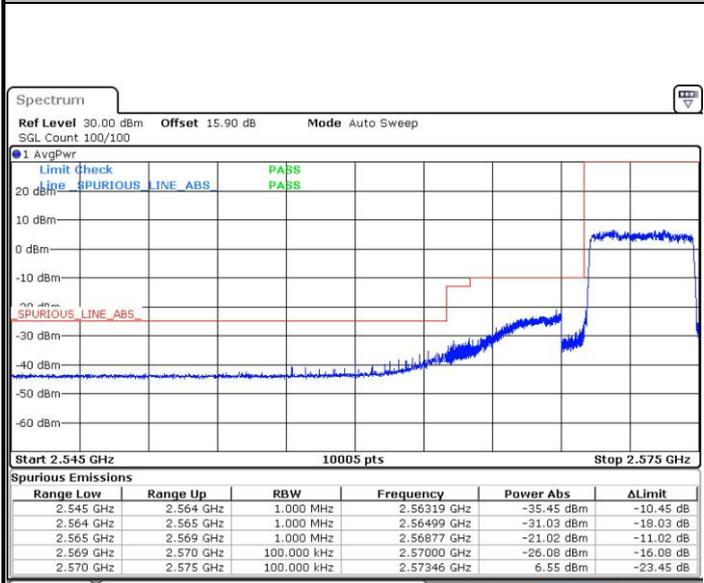
Date: 11. JAN 2017 14:34:18

Highest Band Edge / 1 RB



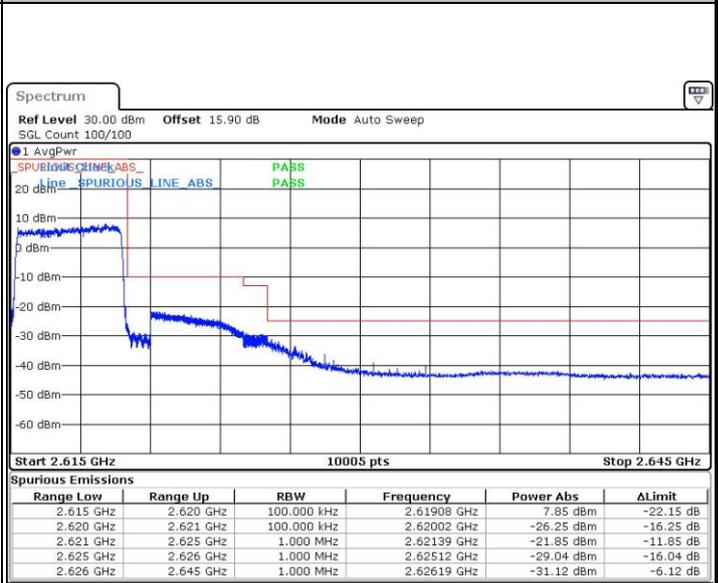
Date: 11. JAN 2017 15:34:10

Lowest Band Edge / Full RB



Date: 11. JAN 2017 14:36:38

Highest Band Edge / Full RB



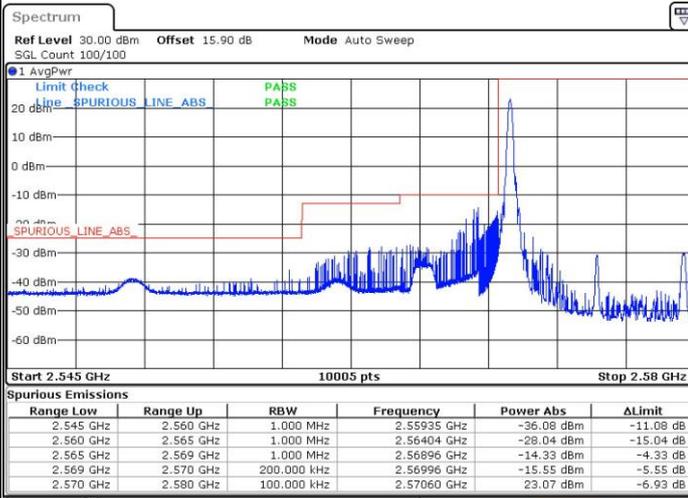
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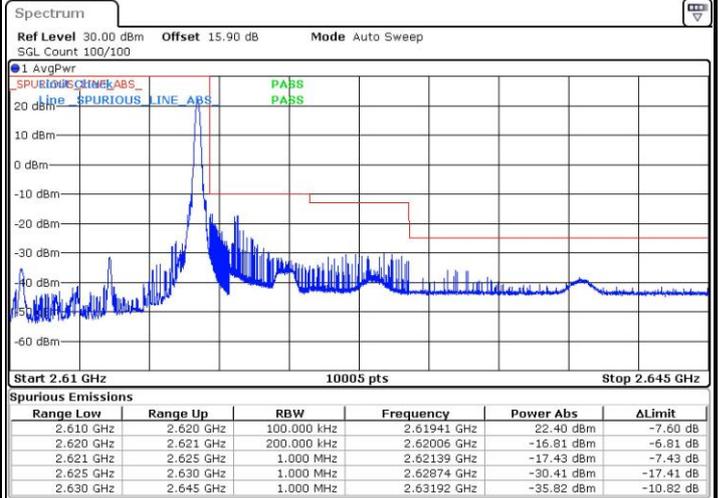
LTE Band 38 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



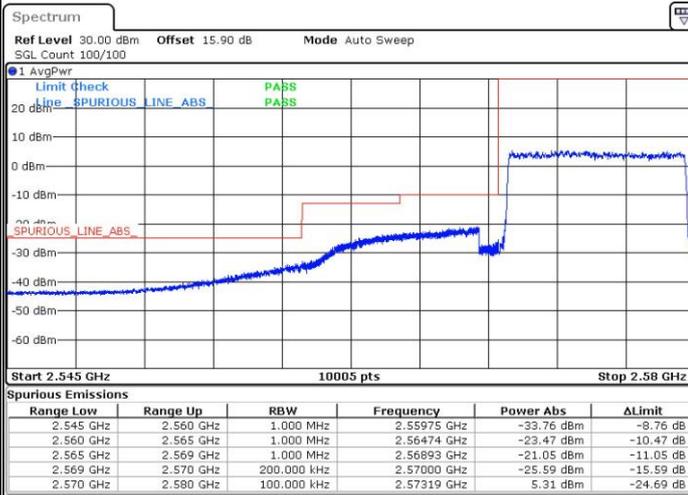
Date: 11. JAN 2017 15:35:51



Date: 11. JAN 2017 14:50:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 11. JAN 2017 14:45:52

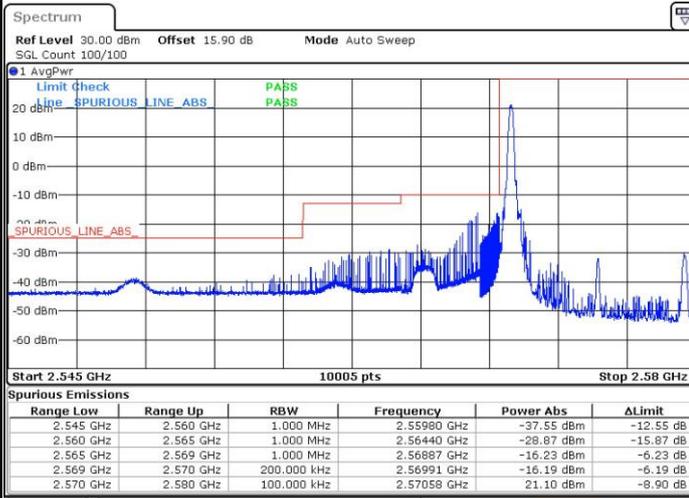


Date: 11. JAN 2017 14:48:12



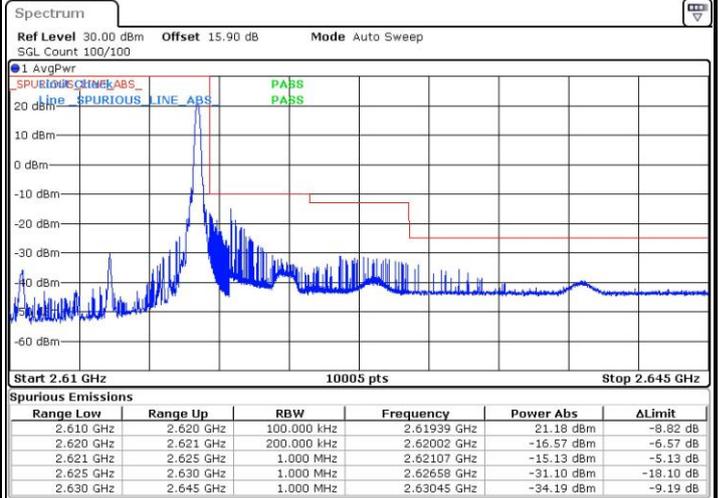
LTE Band 38 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



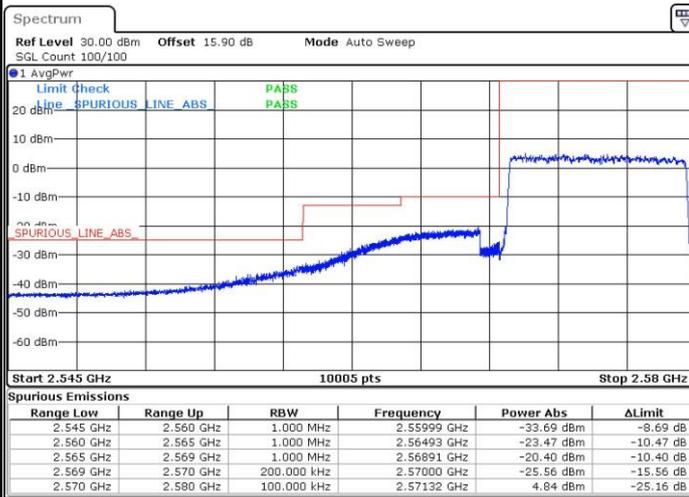
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Highest Band Edge / 1 RB



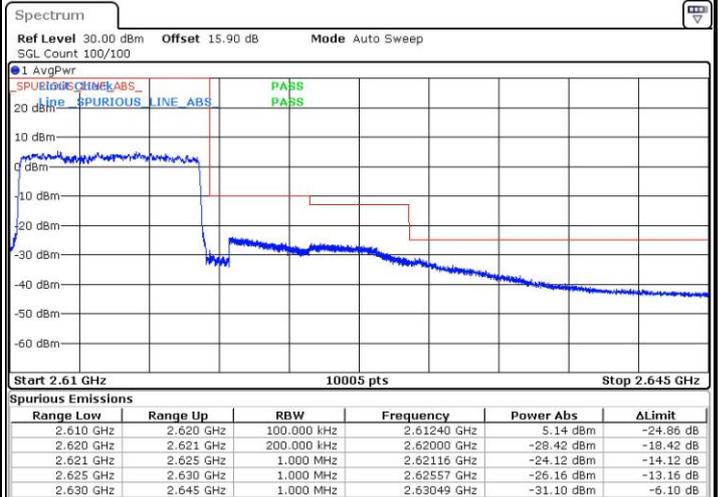
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Lowest Band Edge / Full RB



Date: 11. JAN 2017 15:35:27

Highest Band Edge / Full RB

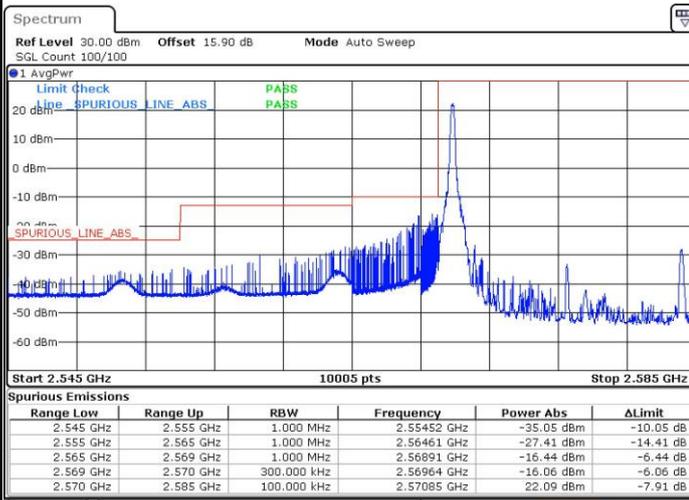


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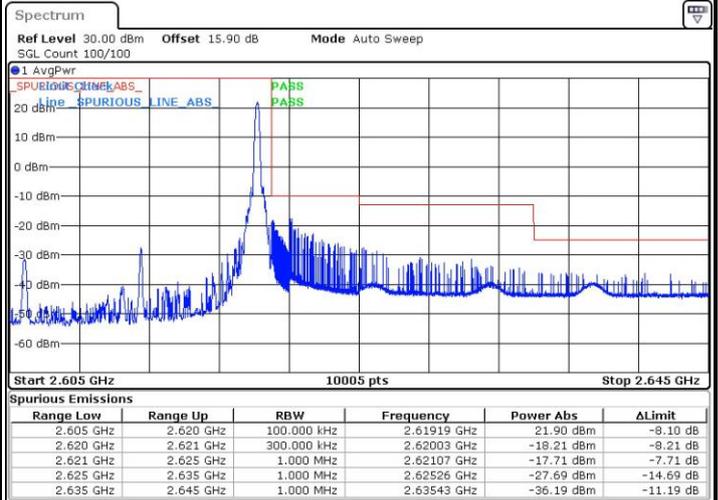
LTE Band 38 / 15MHz / QPSK

Lowest Band Edge / 1 RB



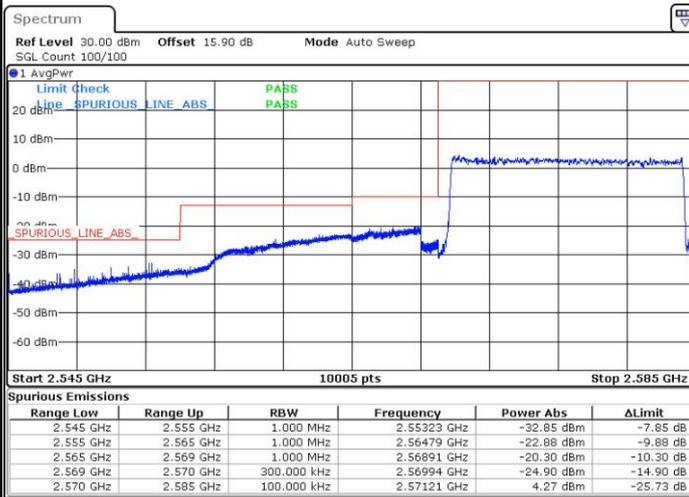
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Highest Band Edge / 1 RB



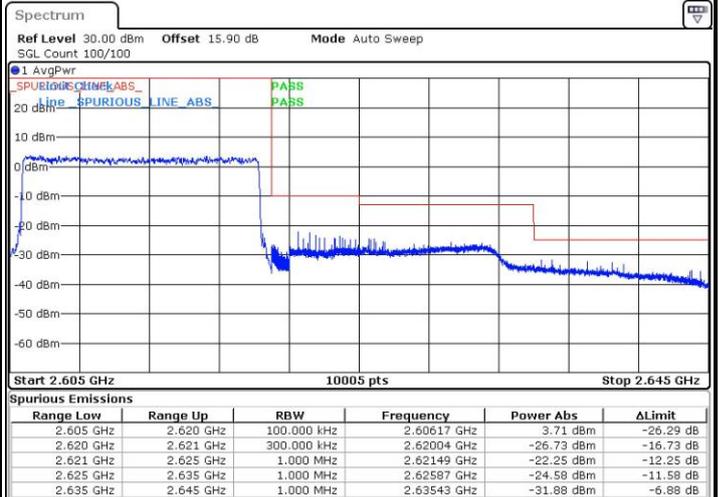
Date: 11. JAN 2017 14:59:51

Lowest Band Edge / Full RB



Date: 11. JAN 2017 14:55:11

Highest Band Edge / Full RB



Date: 11. JAN 2017 14:57:31