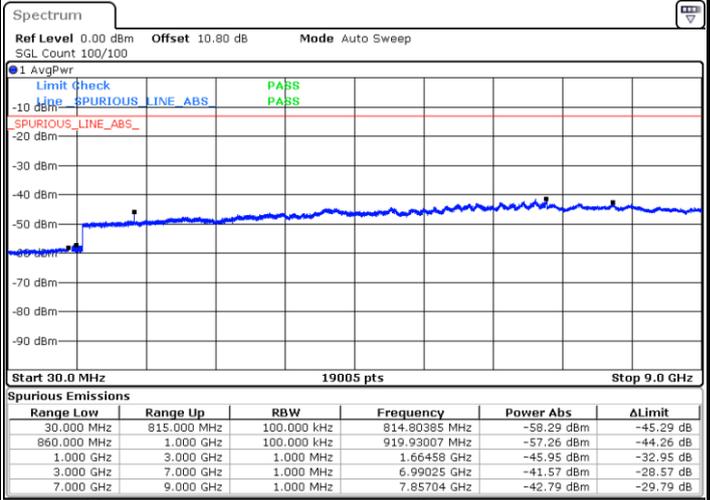
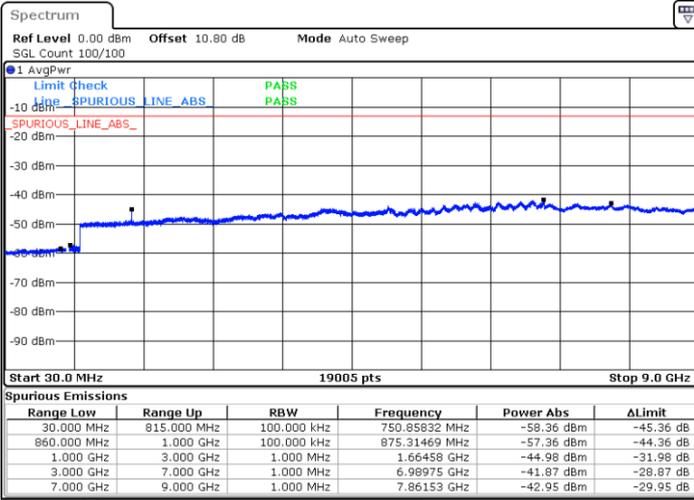




LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

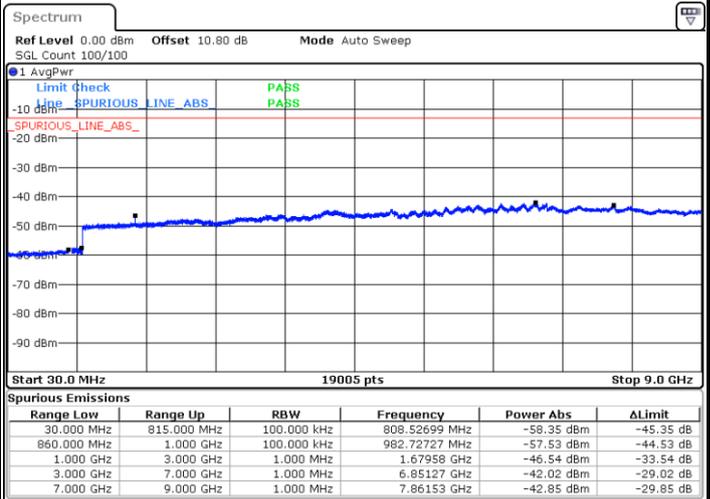
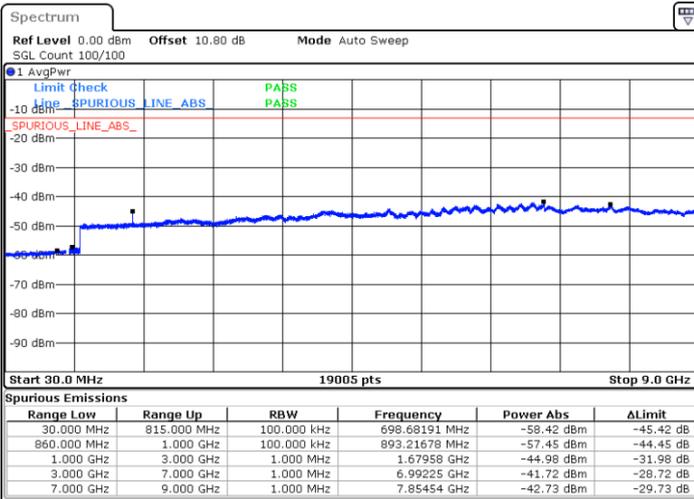


Date: 6 SEP.2017 17:35:37

Date: 6 SEP.2017 17:36:31

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6 SEP.2017 17:44:39

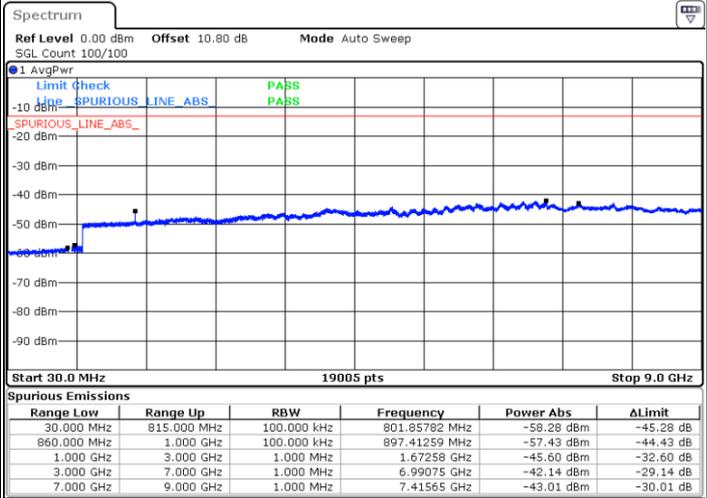
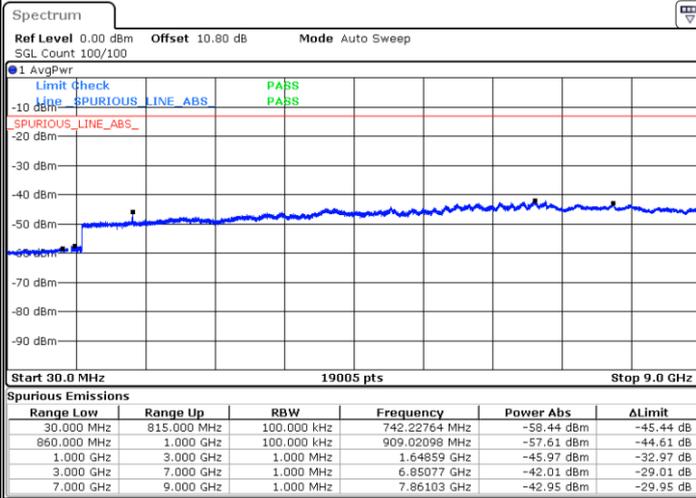
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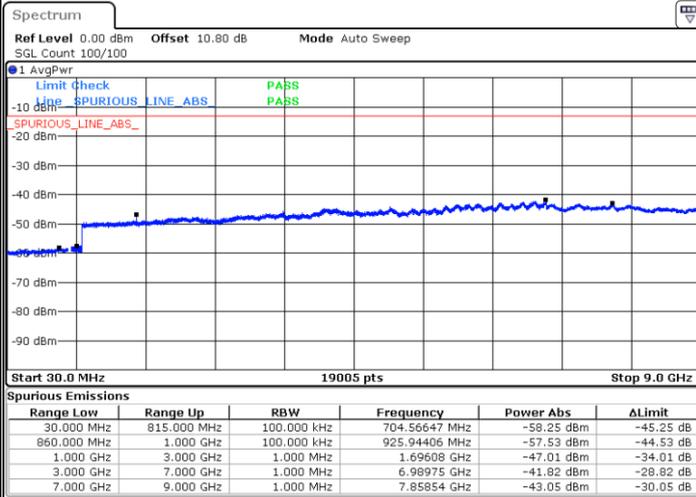
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



Highest Channel / 64QAM

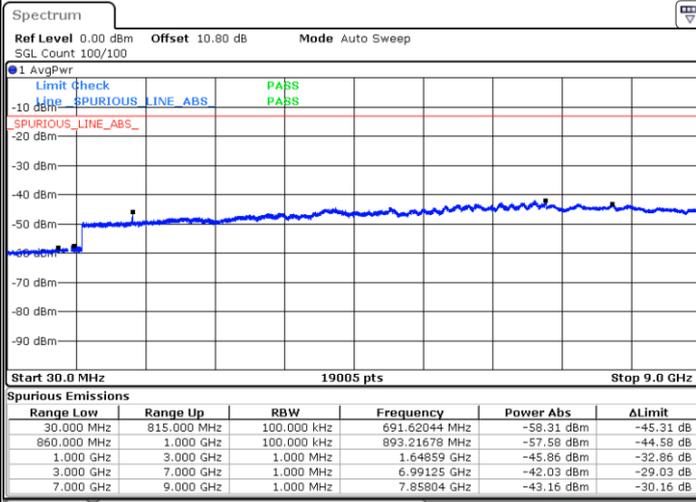




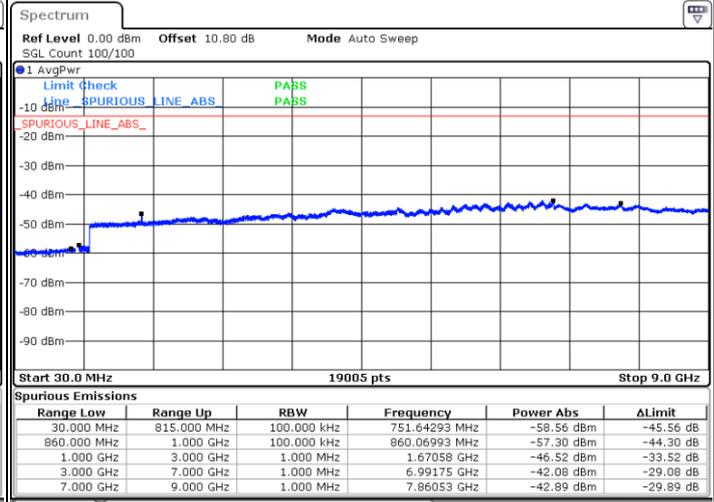
LTE Band 5 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

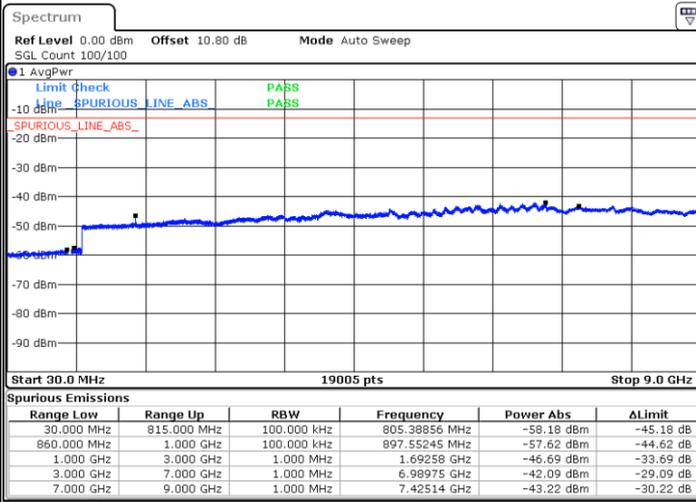


Date: 27.OCT.2017 10:04:09



Date: 27.OCT.2017 10:05:23

Highest Channel / 64QAM



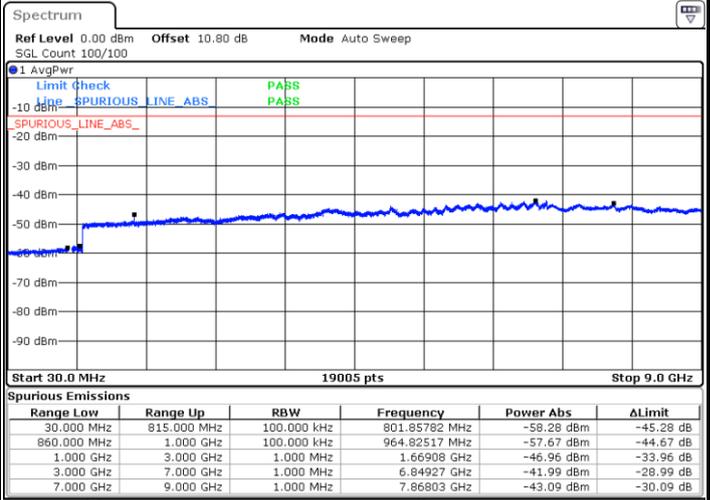
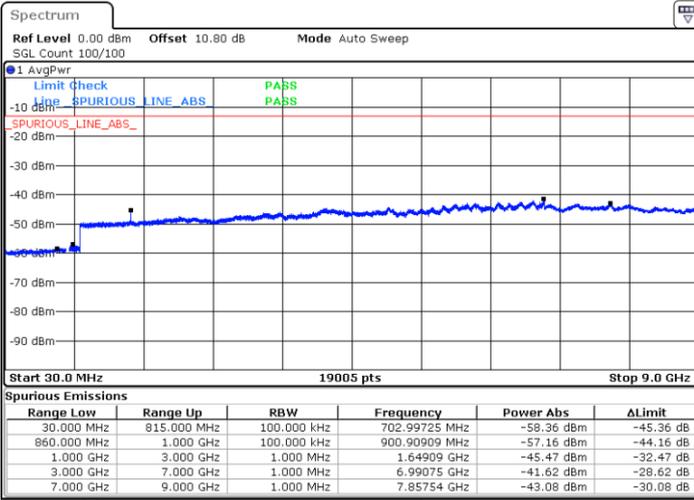
Date: 27.OCT.2017 10:09:54



LTE Band 5 / 5MHz

Lowest Channel / 64QAM

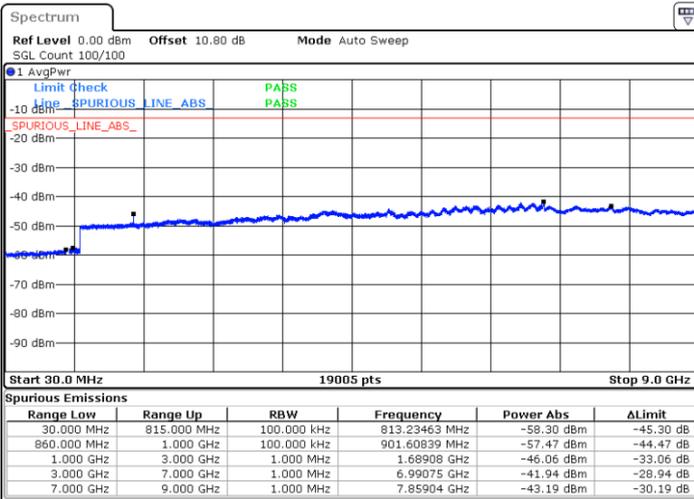
Middle Channel / 64QAM



Date: 27.OCT.2017 10:14:25

Date: 27.OCT.2017 10:15:39

Highest Channel / 64QAM



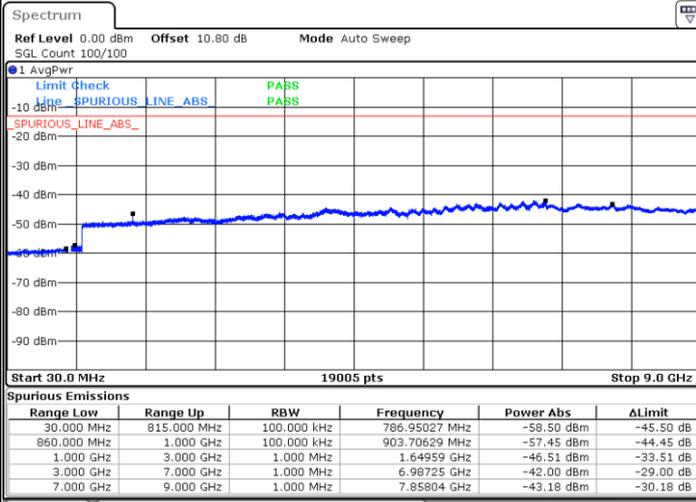
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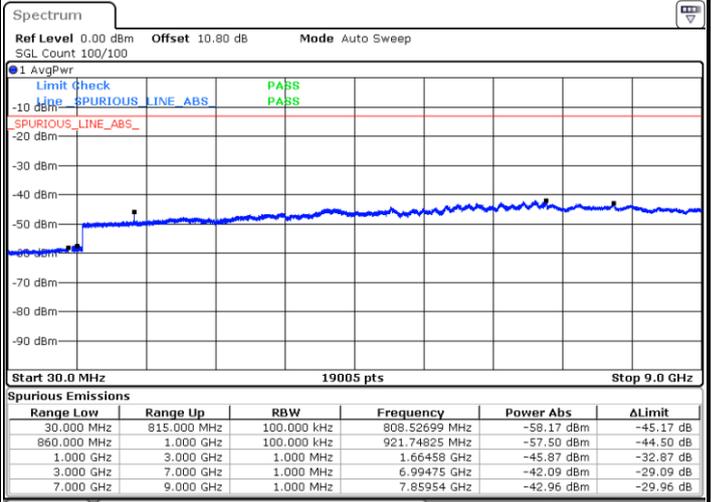
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

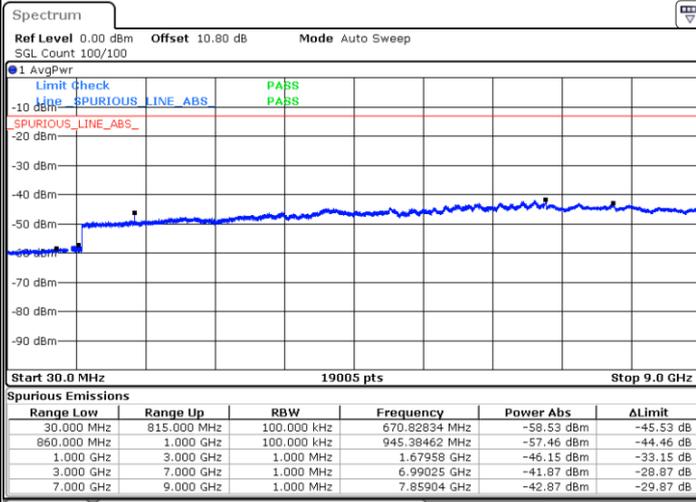


Date: 27.OCT.2017 10:24:41



Date: 27.OCT.2017 10:25:55

Highest Channel / 64QAM



Date: 27.OCT.2017 10:30:26



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	0.0004	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0065	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0080	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

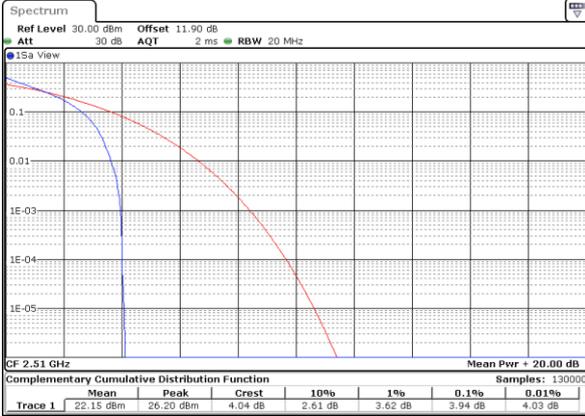
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.94	4.9	4.58	6.03	PASS
Middle CH	4.41	5.01	5.3	6.14	
Highest CH	4.23	4.67	4.93	5.97	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.43	5.94	-	-	PASS
Middle CH	5.07	6.06	-	-	
Highest CH	4.67	5.74	-	-	



LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



Date: 7 SEP 2017 11:15:59

Lowest Channel / Full RB



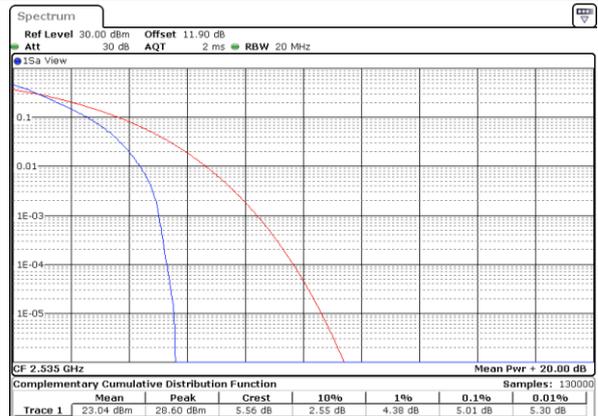
Date: 7 SEP 2017 11:16:09

Middle Channel / 1RB



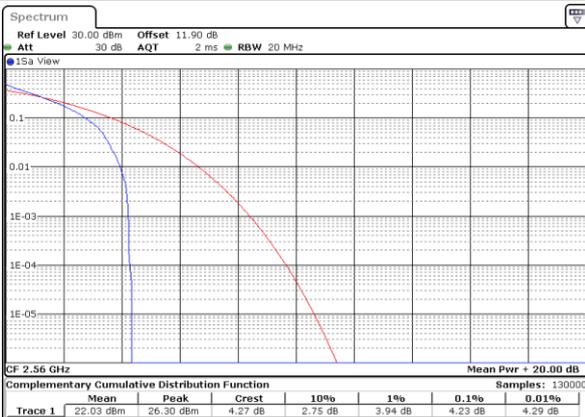
Date: 7 SEP 2017 11:16:29

Middle Channel / Full RB



Date: 7 SEP 2017 11:16:41

Highest Channel / 1RB



Date: 7 SEP 2017 11:16:50

Highest Channel / Full RB



Date: 7 SEP 2017 11:16:59



LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



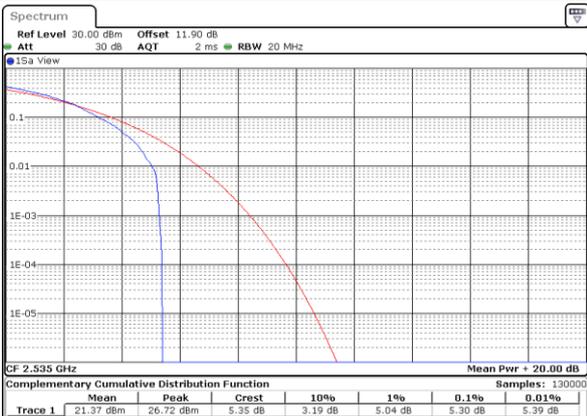
Date: 7 SEP 2017 11:08:06

Lowest Channel / Full RB



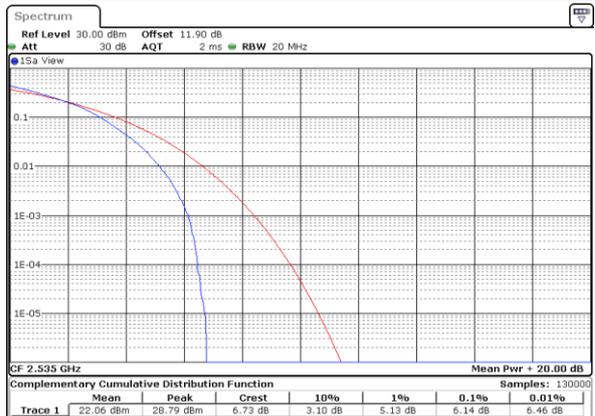
Date: 7 SEP 2017 11:08:15

Middle Channel / 1RB



Date: 7 SEP 2017 11:13:55

Middle Channel / Full RB



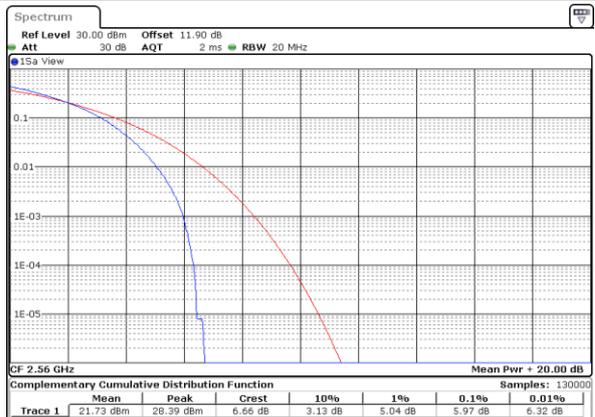
Date: 7 SEP 2017 11:14:04

Highest Channel / 1RB



Date: 7 SEP 2017 11:15:06

Highest Channel / Full RB

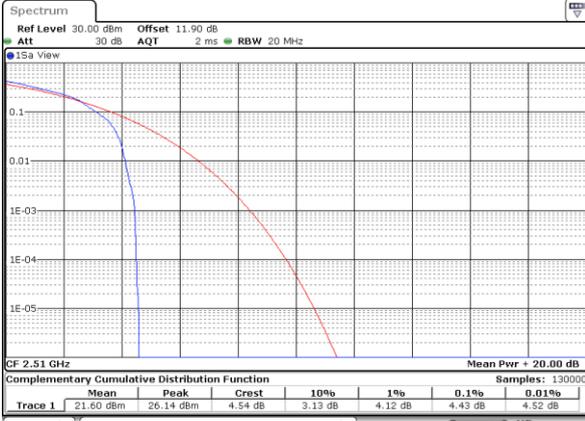


Date: 7 SEP 2017 11:15:16



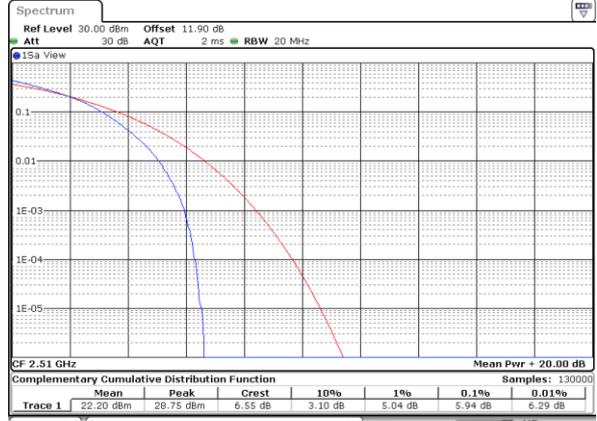
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



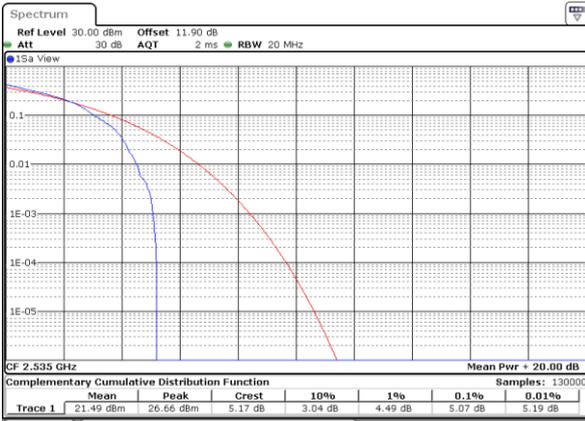
Date: 27.OCT.2017 09:45:48

Lowest Channel / Full RB



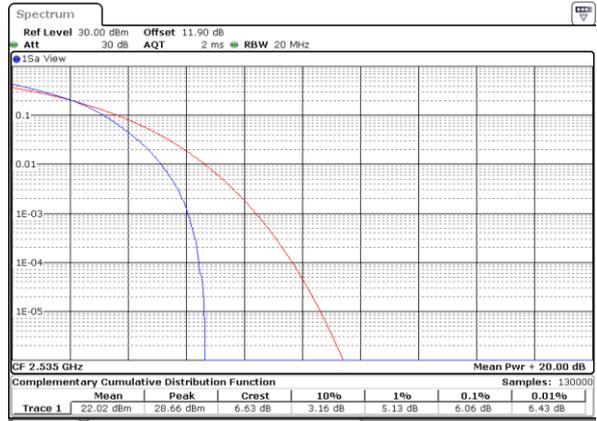
Date: 27.OCT.2017 09:45:57

Middle Channel / 1RB



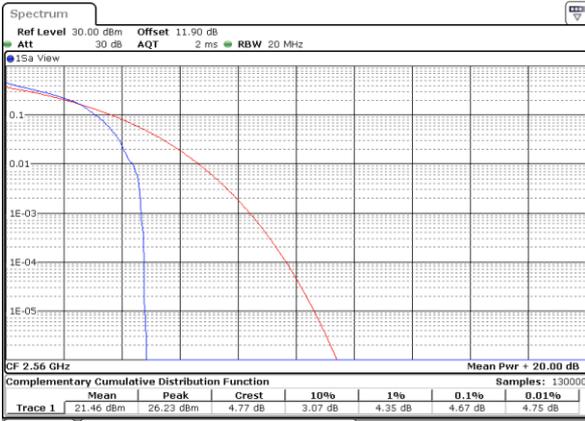
Date: 27.OCT.2017 09:46:07

Middle Channel / Full RB



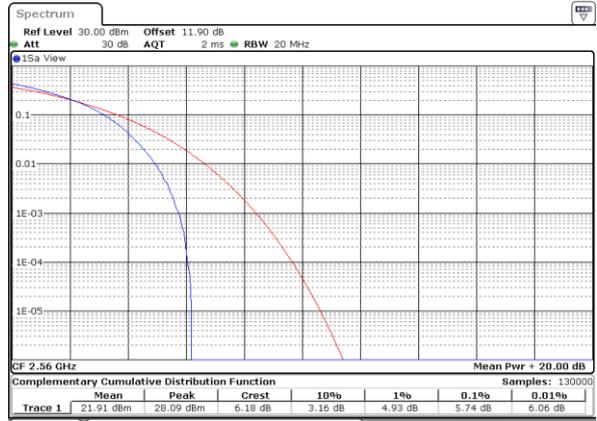
Date: 27.OCT.2017 09:46:18

Highest Channel / 1RB



Date: 27.OCT.2017 09:46:27

Highest Channel / Full RB



Date: 27.OCT.2017 09:46:37



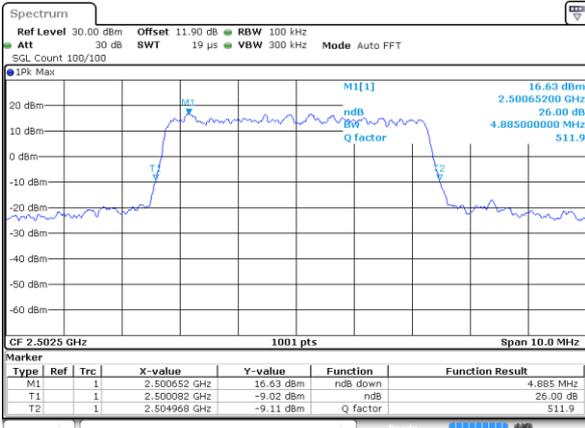
26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.89	4.90	9.75	9.91	14.21	14.42	20.14	20.30
Middle CH	-	-	-	-	4.85	4.86	9.85	9.73	14.30	14.42	20.50	20.18
Highest CH	-	-	-	-	4.94	4.93	9.85	9.85	14.33	14.30	20.22	20.22
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.88	-	9.83	-	14.39	-	20.06	-
Middle CH	-	-	-	-	4.9	-	9.73	-	14.33	-	20.10	-
Highest CH	-	-	-	-	4.87	-	9.77	-	14.48	-	20.14	-



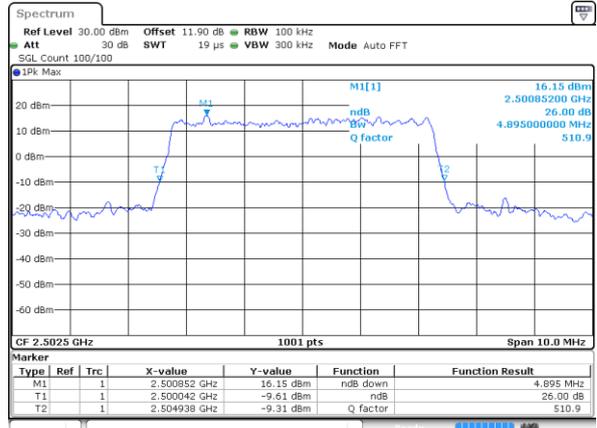
LTE Band 7

Lowest Channel / 5MHz / QPSK



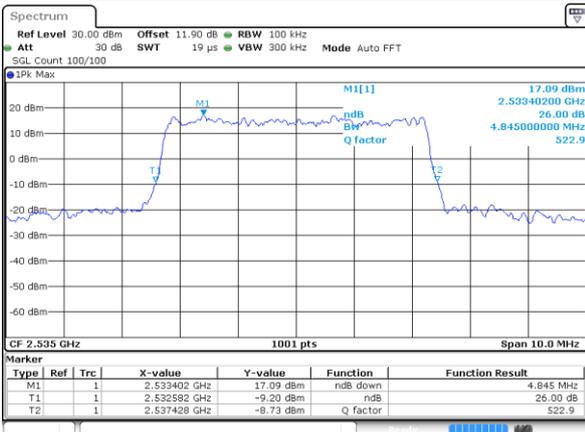
Date: 7 SEP 2017 10:01:17

Lowest Channel / 5MHz / 16QAM



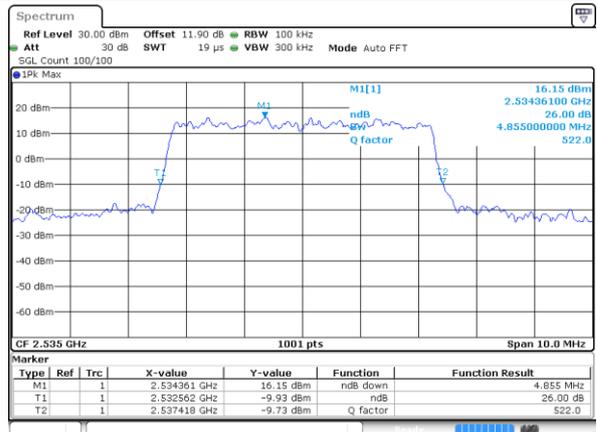
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Middle Channel / 5MHz / QPSK



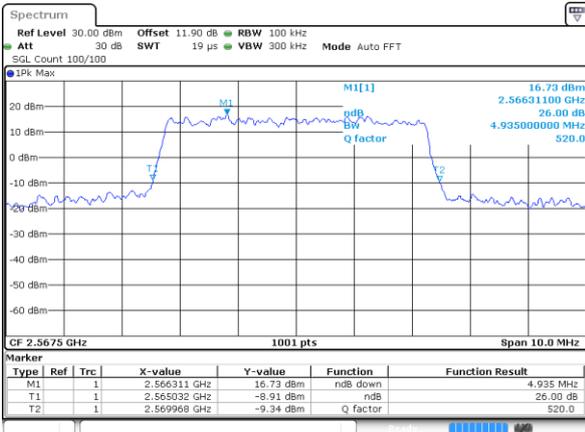
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Middle Channel / 5MHz / 16QAM



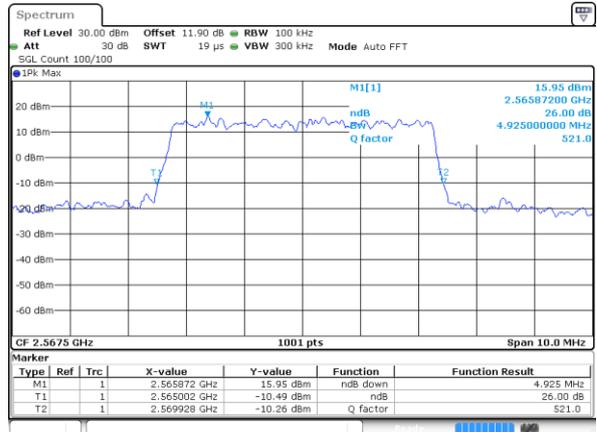
Date: 7 SEP 2017 10:09:21

Highest Channel / 5MHz / QPSK



Date: 7 SEP 2017 10:11:37

Highest Channel / 5MHz / 16QAM

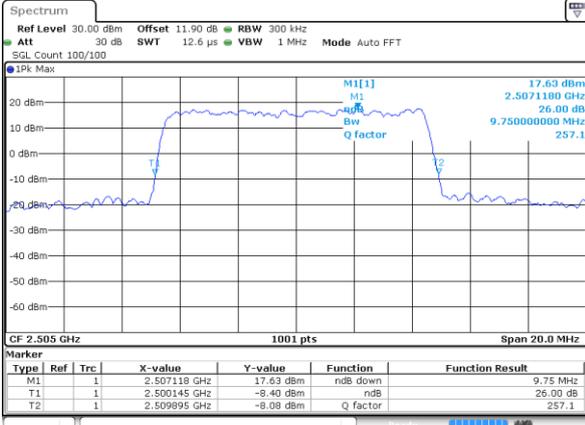


Date: 7 SEP 2017 10:11:47



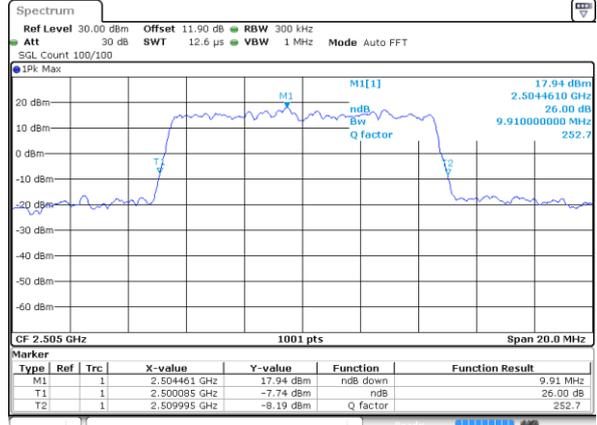
LTE Band 7

Lowest Channel / 10MHz / QPSK



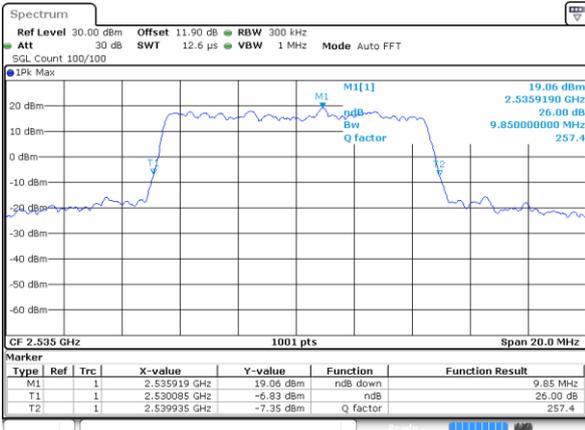
Date: 7 SEP 2017 10:18:41

Lowest Channel / 10MHz / 16QAM



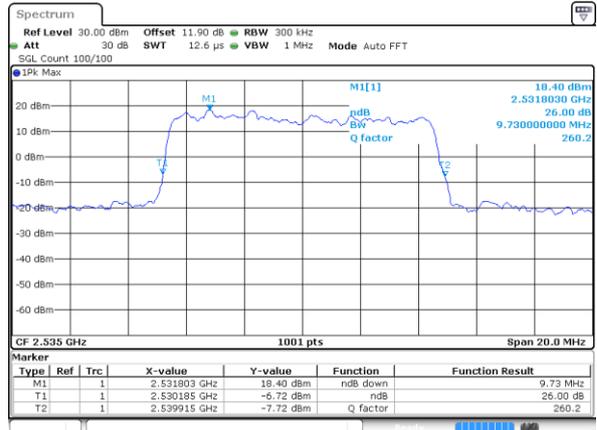
Date: 7 SEP 2017 10:18:51

Middle Channel / 10MHz / QPSK



Date: 7 SEP 2017 10:25:44

Middle Channel / 10MHz / 16QAM



Date: 7 SEP 2017 10:25:54

Highest Channel / 10MHz / QPSK



Date: 7 SEP 2017 10:28:11

Highest Channel / 10MHz / 16QAM

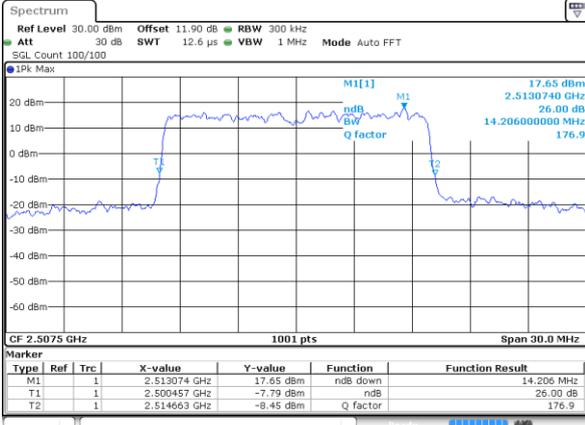


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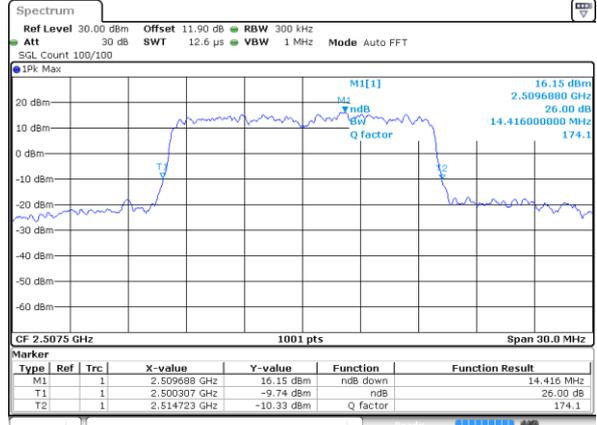
LTE Band 7

Lowest Channel / 15MHz / QPSK



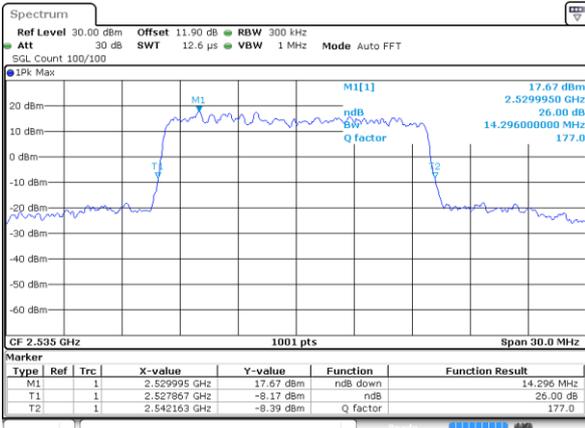
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Lowest Channel / 15MHz / 16QAM



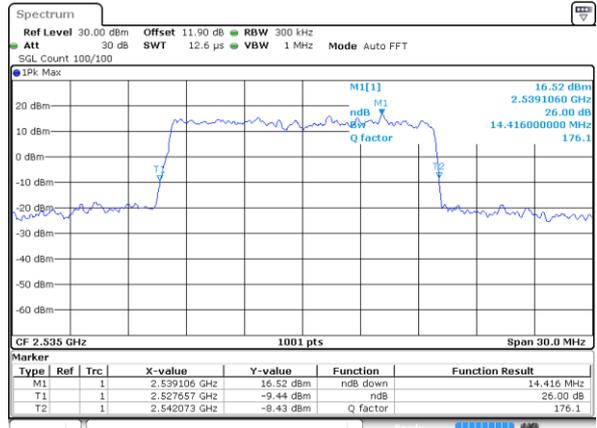
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Middle Channel / 15MHz / QPSK



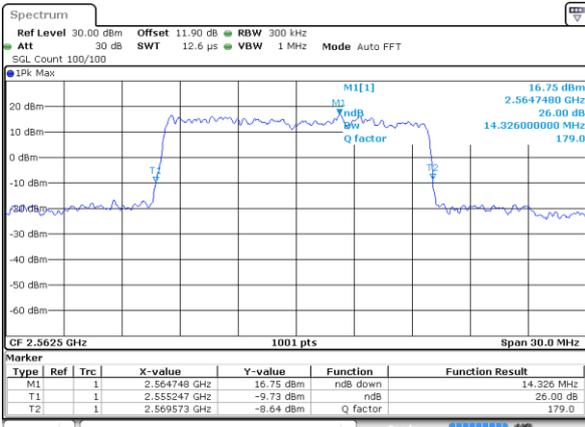
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Middle Channel / 15MHz / 16QAM



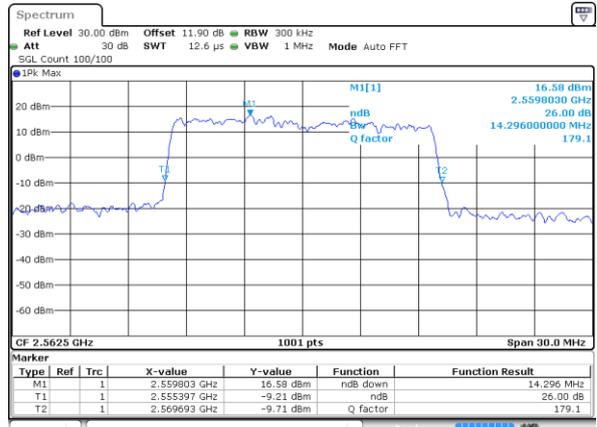
Date: 7 SEP 2017 10:42:28

Highest Channel / 15MHz / QPSK



Date: 7 SEP 2017 10:44:45

Highest Channel / 15MHz / 16QAM

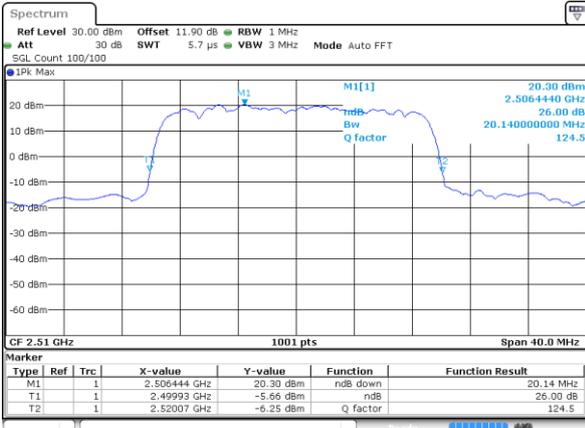


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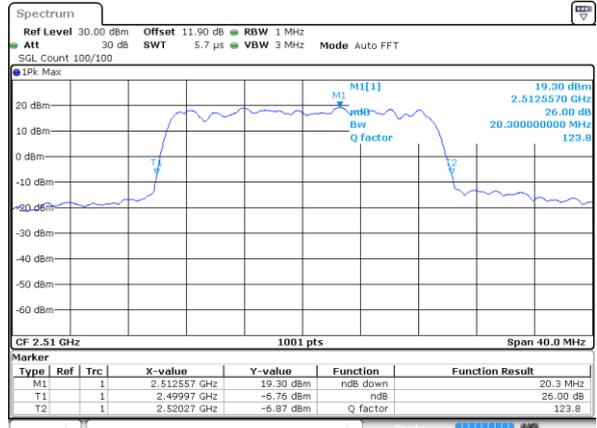
LTE Band 7

Lowest Channel / 20MHz / QPSK



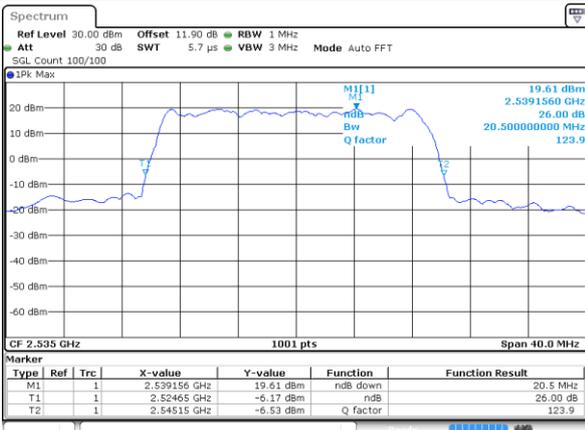
Date: 7 SEP 2017 10:51:49

Lowest Channel / 20MHz / 16QAM



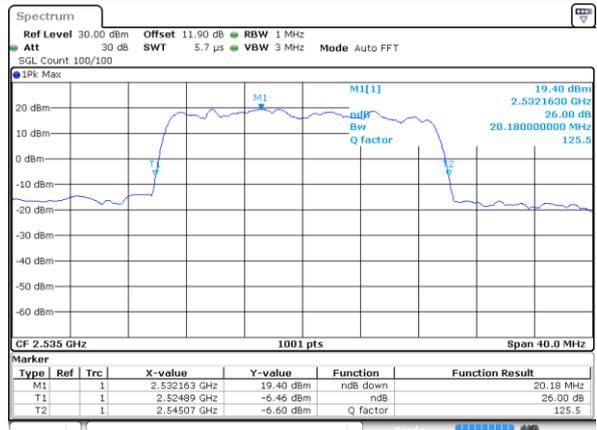
Date: 7 SEP 2017 10:51:59

Middle Channel / 20MHz / QPSK



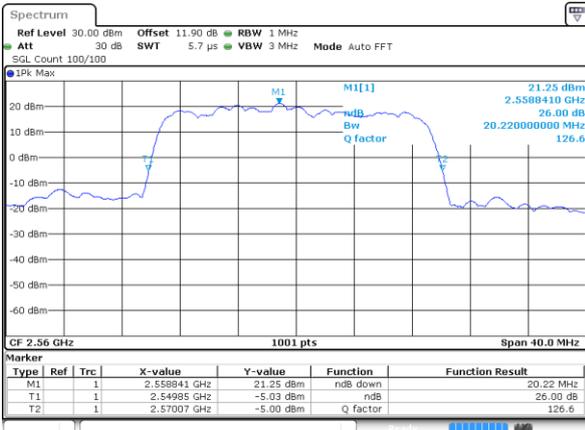
Date: 7 SEP 2017 10:58:52

Middle Channel / 20MHz / 16QAM



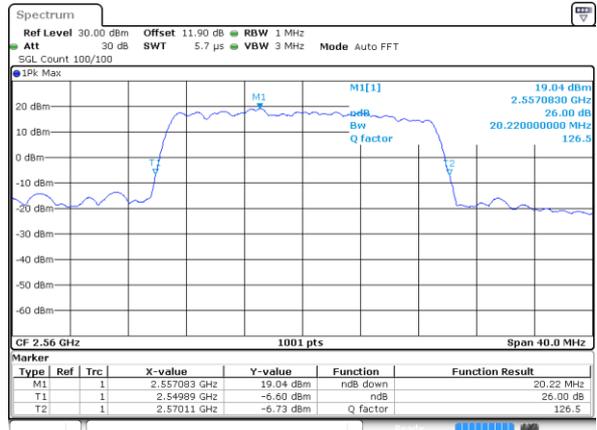
Date: 7 SEP 2017 10:59:02

Highest Channel / 20MHz / QPSK



Date: 7 SEP 2017 11:01:19

Highest Channel / 20MHz / 16QAM

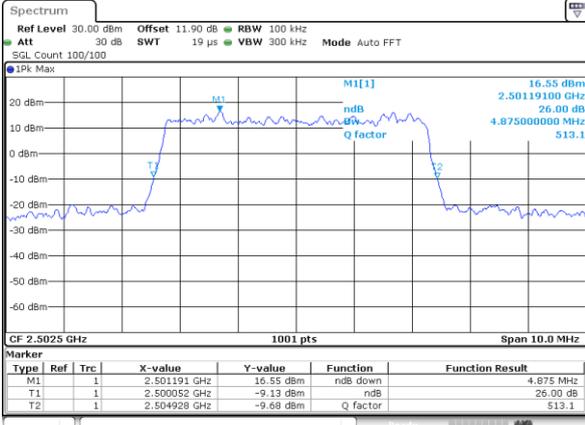


Date: 7 SEP 2017 11:01:29



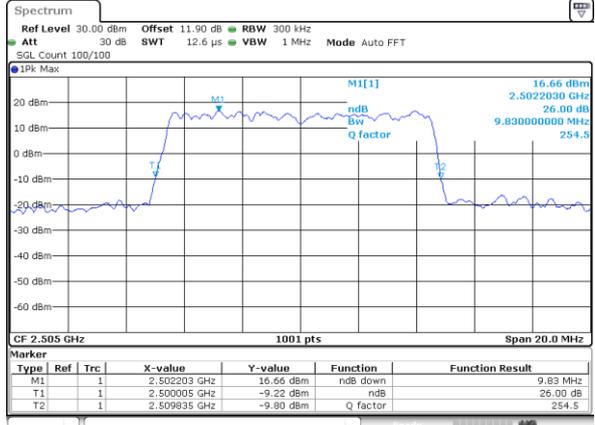
LTE Band 7

Lowest Channel / 5MHz / 64QAM



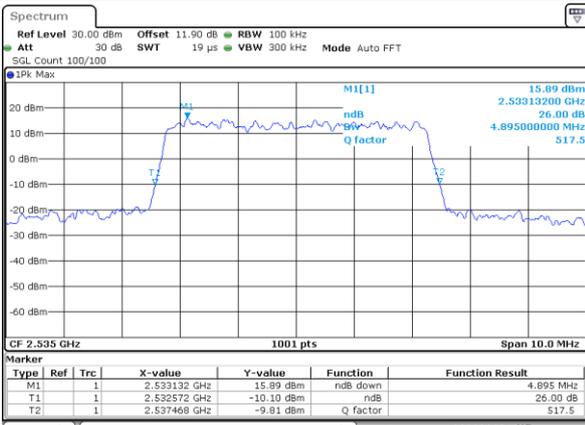
Date: 1.NOV.2017 09:47:14

Lowest Channel / 10MHz / 64QAM



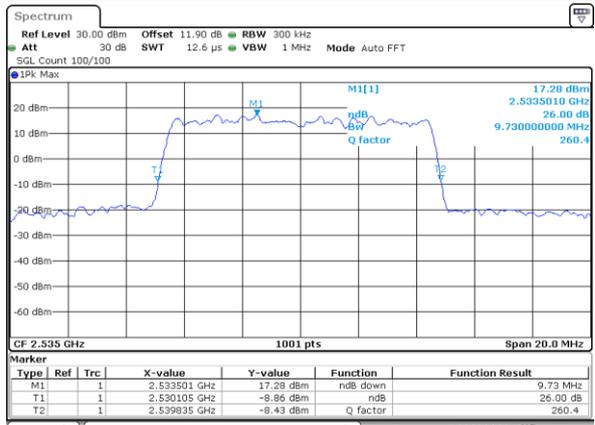
Date: 1.NOV.2017 09:48:25

Middle Channel / 5MHz / 64QAM



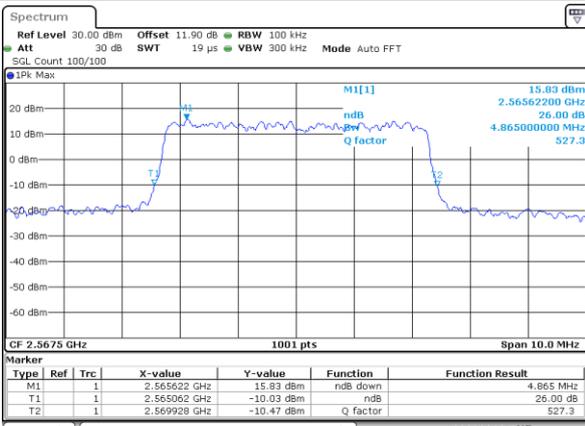
Date: 1.NOV.2017 09:47:38

Middle Channel / 10MHz / 64QAM



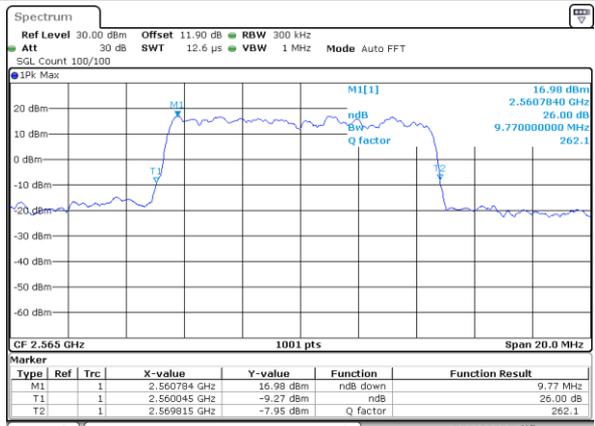
Date: 1.NOV.2017 09:48:49

Highest Channel / 5MHz / 64QAM



Date: 1.NOV.2017 09:48:02

Highest Channel / 10MHz / 64QAM

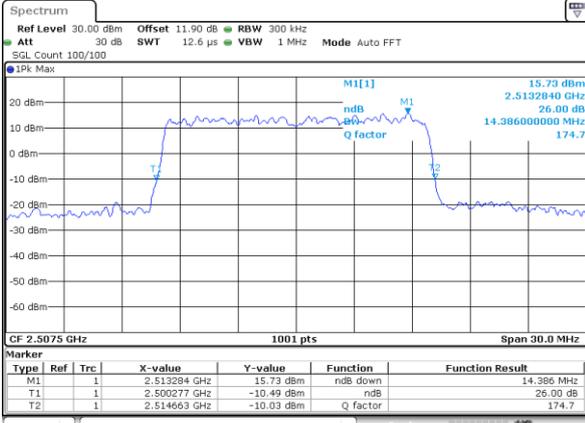


Date: 1.NOV.2017 09:49:13



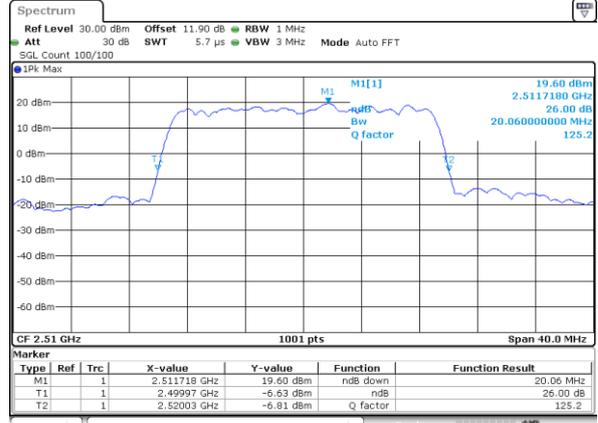
LTE Band 7

Lowest Channel / 15MHz / 64QAM



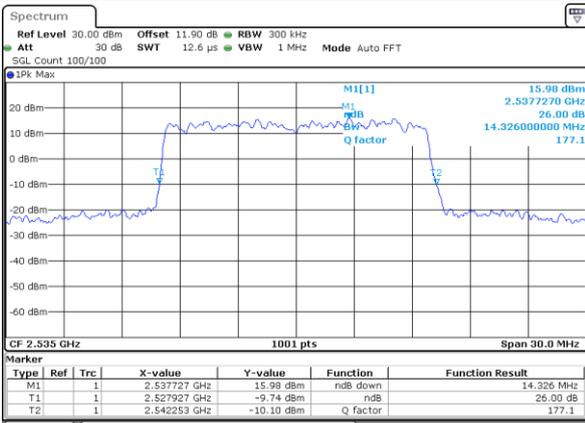
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Lowest Channel / 20MHz / 64QAM



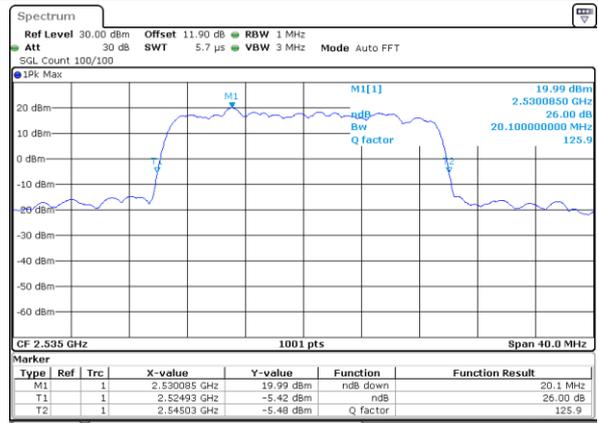
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Middle Channel / 15MHz / 64QAM



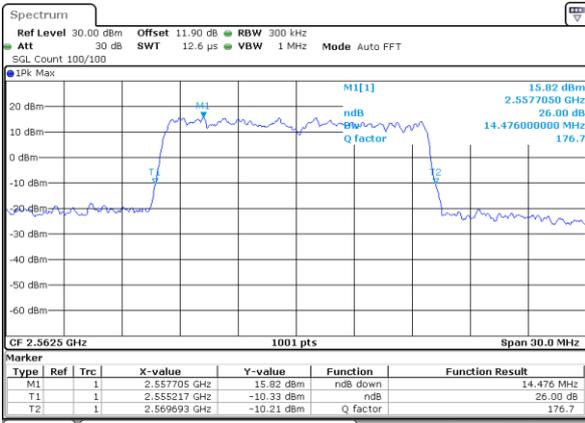
Date: 1.NOV.2017 09:50:00

Middle Channel / 20MHz / 64QAM



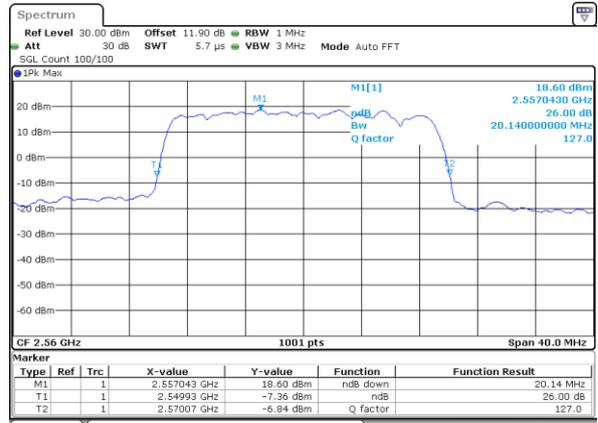
Date: 1.NOV.2017 09:51:10

Highest Channel / 15MHz / 64QAM



Date: 1.NOV.2017 09:50:24

Highest Channel / 20MHz / 64QAM



Date: 1.NOV.2017 09:51:33



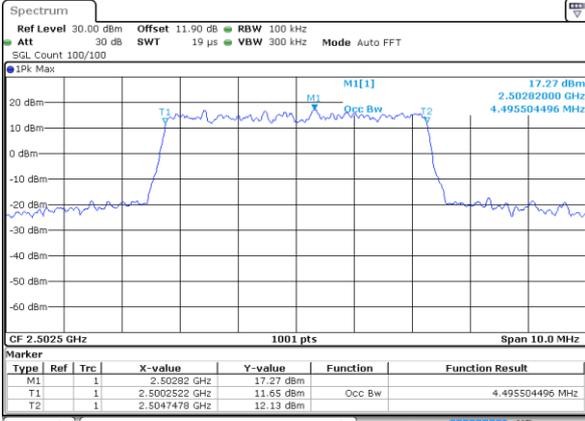
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.5	4.47	9.11	8.97	13.46	13.43	18.38	18.42
Middle CH	-	-	-	-	4.5	4.51	9.03	9.03	13.43	13.49	18.14	18.34
Highest CH	-	-	-	-	4.53	4.49	9.03	9.05	13.46	13.46	18.26	18.34
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.53	-	9.01	-	13.4	-	18.38	-
Middle CH	-	-	-	-	4.5	-	8.99	-	13.46	-	18.38	-
Highest CH	-	-	-	-	4.49	-	9.07	-	13.49	-	18.22	-



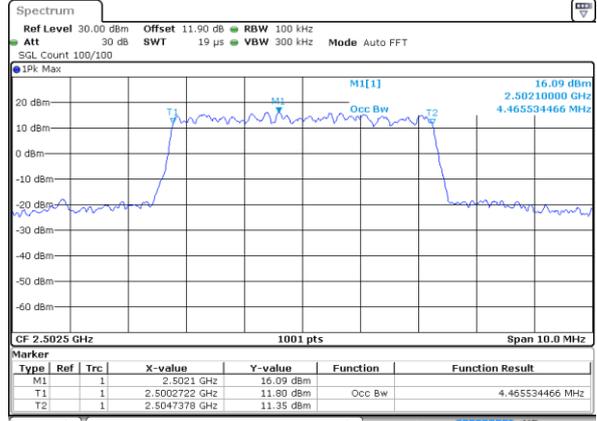
LTE Band 7

Lowest Channel / 5MHz / QPSK



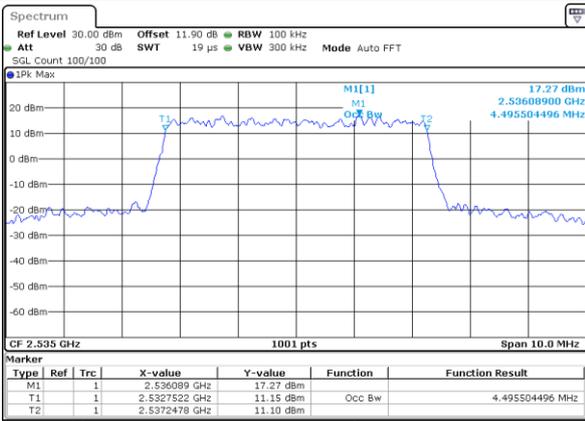
Date: 7 SEP 2017 10:00:57

Lowest Channel / 5MHz / 16QAM



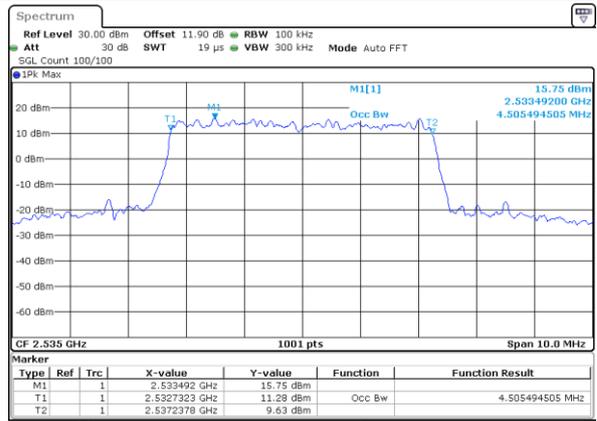
Date: 7 SEP 2017 10:01:07

Middle Channel / 5MHz / QPSK



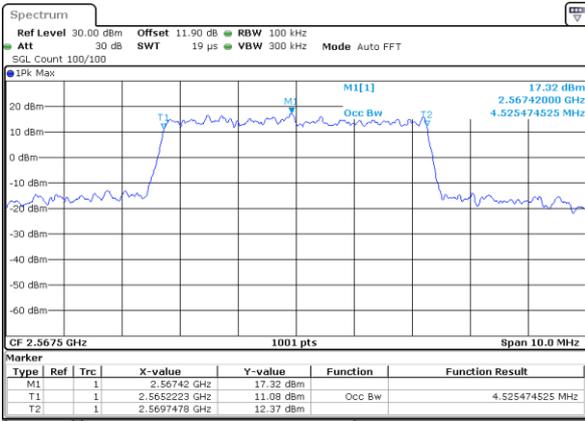
Date: 7 SEP 2017 10:08:51

Middle Channel / 5MHz / 16QAM



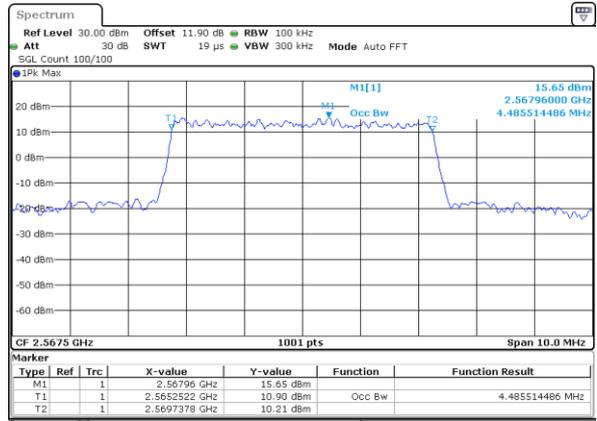
Date: 7 SEP 2017 10:09:01

Highest Channel / 5MHz / QPSK



Date: 7 SEP 2017 10:11:17

Highest Channel / 5MHz / 16QAM

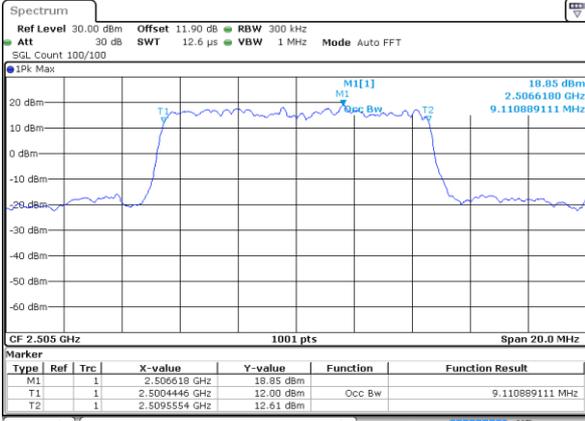


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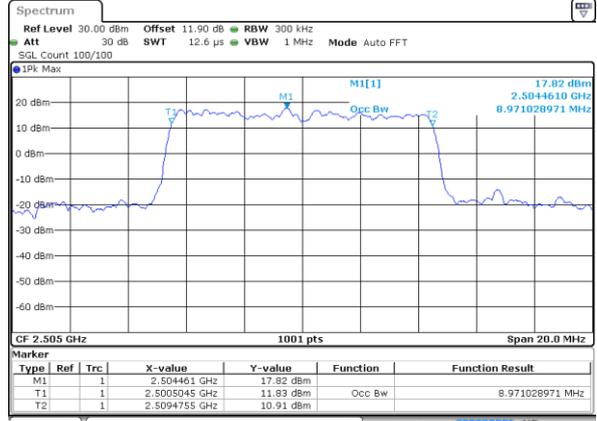
LTE Band 7

Lowest Channel / 10MHz / QPSK



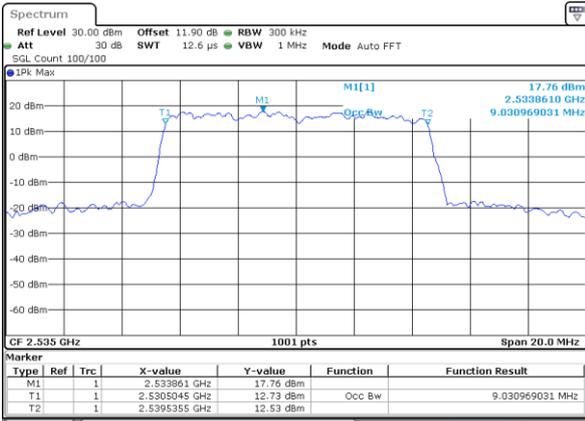
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Lowest Channel / 10MHz / 16QAM



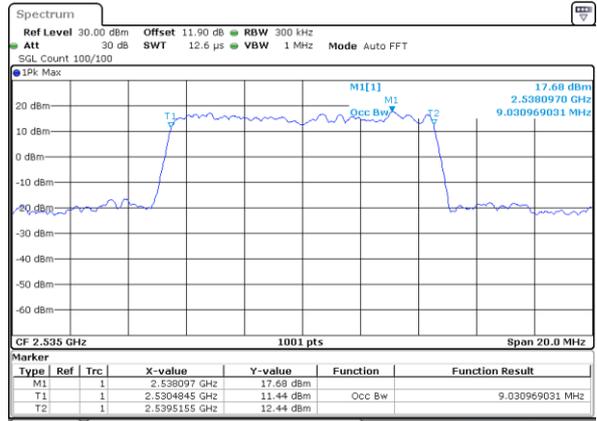
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Middle Channel / 10MHz / QPSK



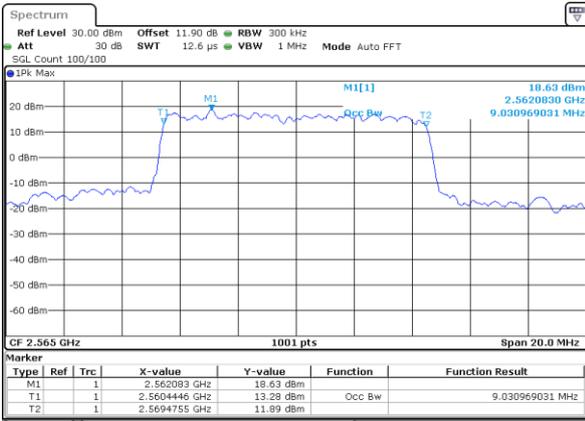
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Middle Channel / 10MHz / 16QAM



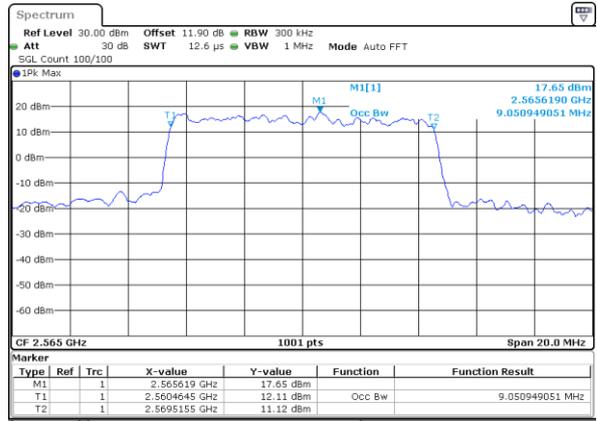
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Highest Channel / 10MHz / QPSK



Date: 7 SEP 2017 10:27:51

Highest Channel / 10MHz / 16QAM

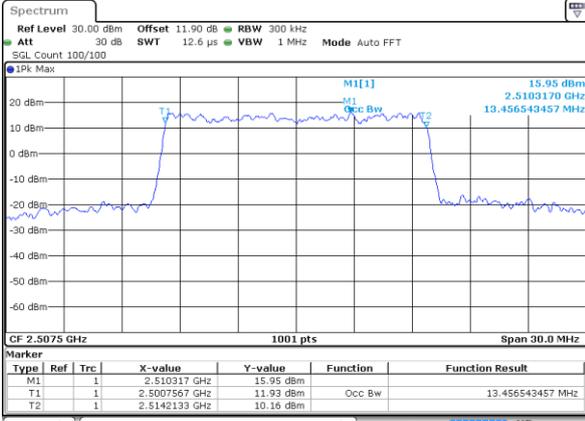


Date: 7 SEP 2017 10:28:01



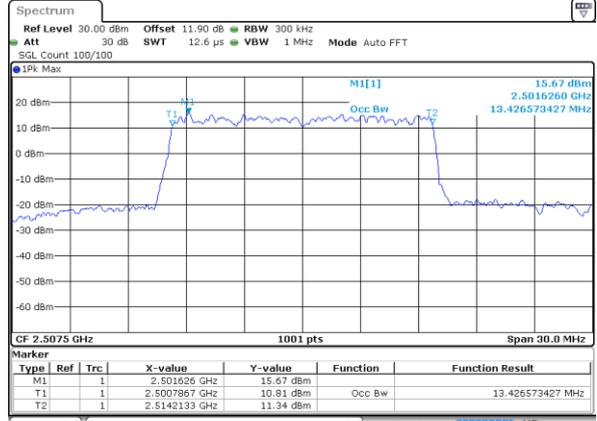
LTE Band 7

Lowest Channel / 15MHz / QPSK



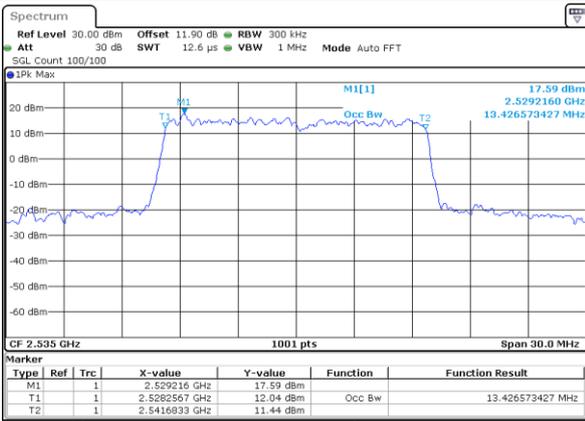
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Lowest Channel / 15MHz / 16QAM



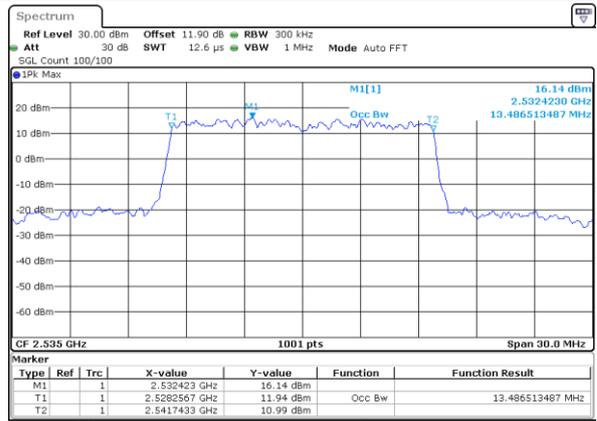
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Middle Channel / 15MHz / QPSK



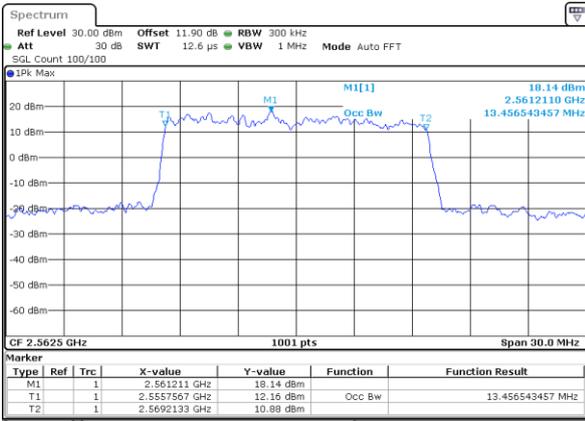
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Middle Channel / 15MHz / 16QAM



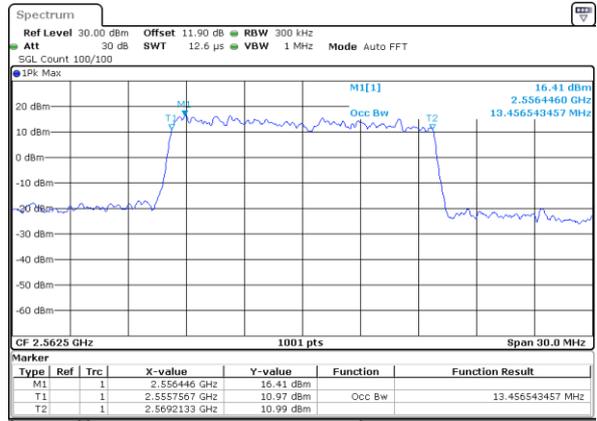
Date: 7 SEP 2017 10:42:08

Highest Channel / 15MHz / QPSK



Date: 7 SEP 2017 10:44:25

Highest Channel / 15MHz / 16QAM

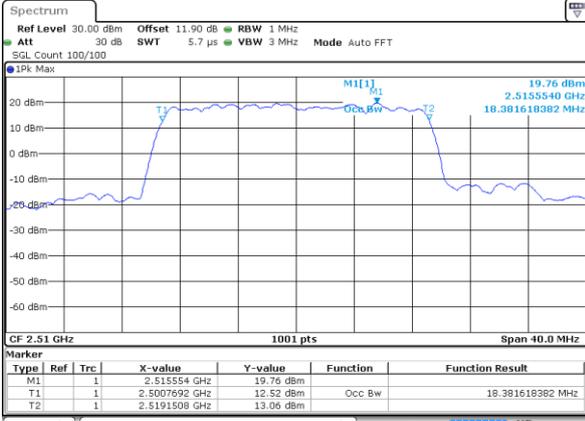


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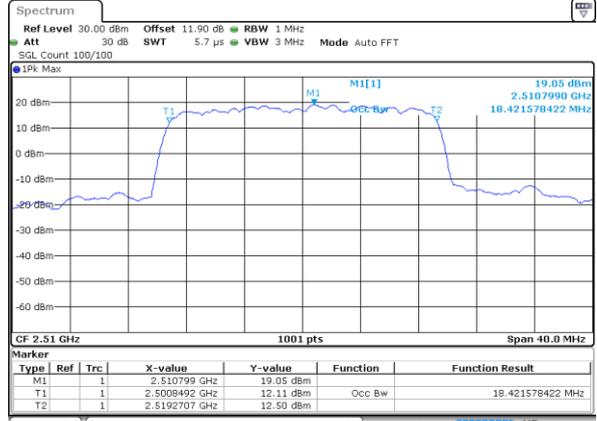
LTE Band 7

Lowest Channel / 20MHz / QPSK



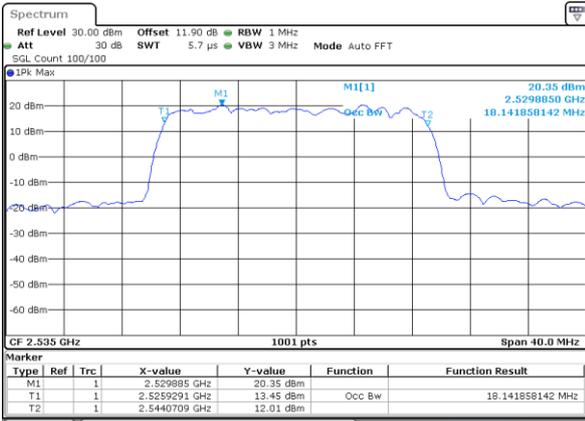
Date: 7 SEP 2017 10:51:29

Lowest Channel / 20MHz / 16QAM



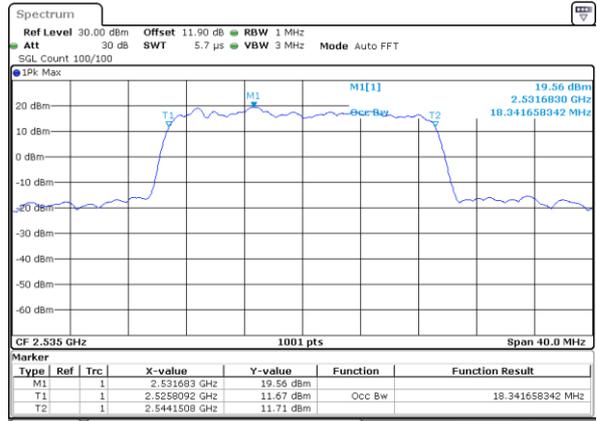
Date: 7 SEP 2017 10:51:39

Middle Channel / 20MHz / QPSK



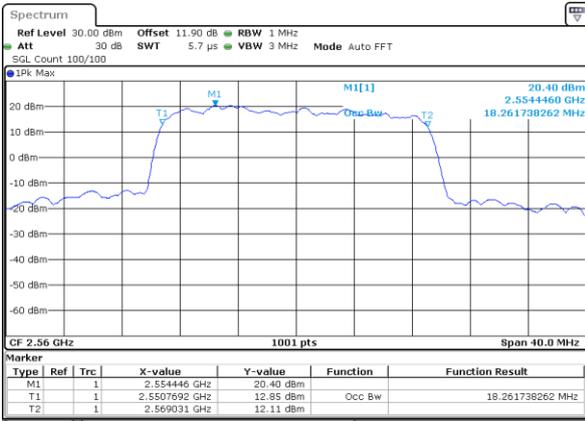
Date: 7 SEP 2017 10:58:32

Middle Channel / 20MHz / 16QAM



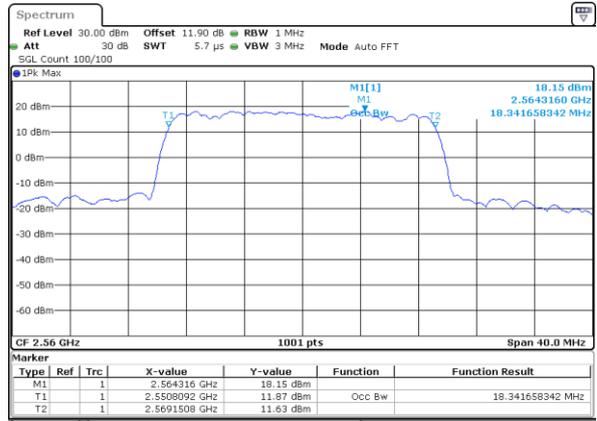
Date: 7 SEP 2017 10:58:42

Highest Channel / 20MHz / QPSK



Date: 7 SEP 2017 11:00:59

Highest Channel / 20MHz / 16QAM

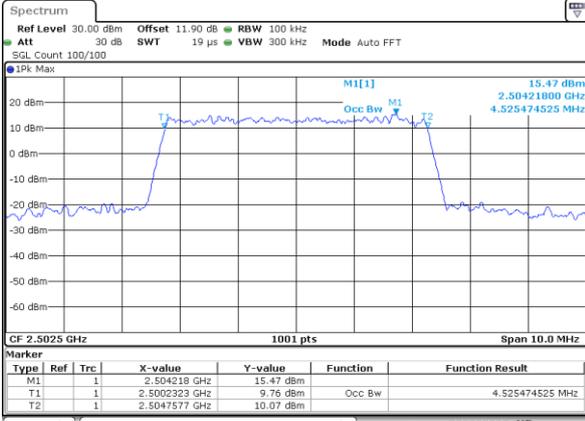


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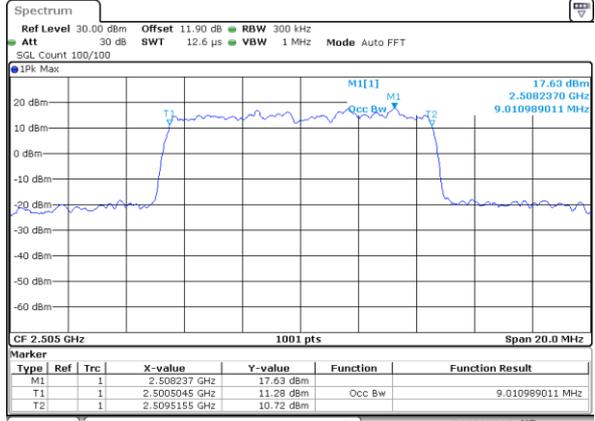
LTE Band 7

Lowest Channel / 5MHz / 64QAM



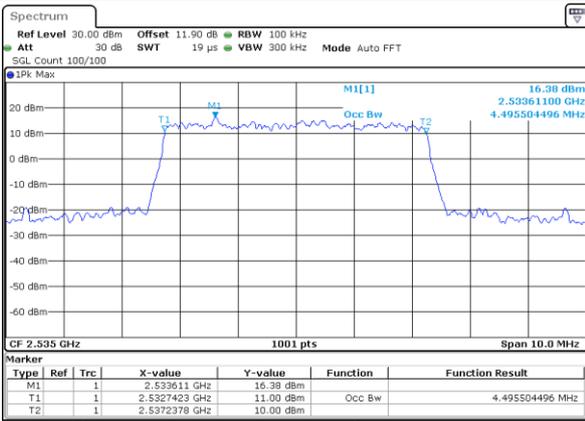
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Lowest Channel / 10MHz / 64QAM



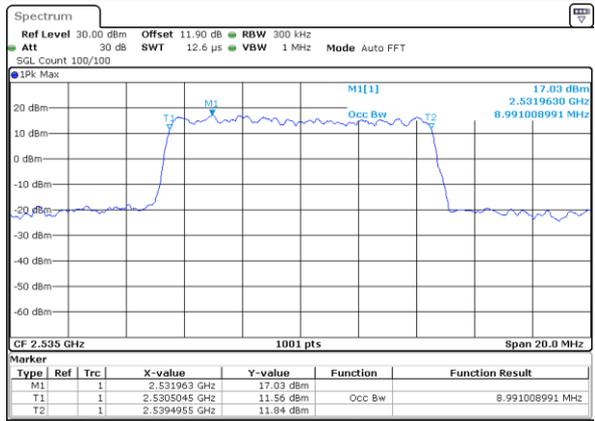
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Middle Channel / 5MHz / 64QAM



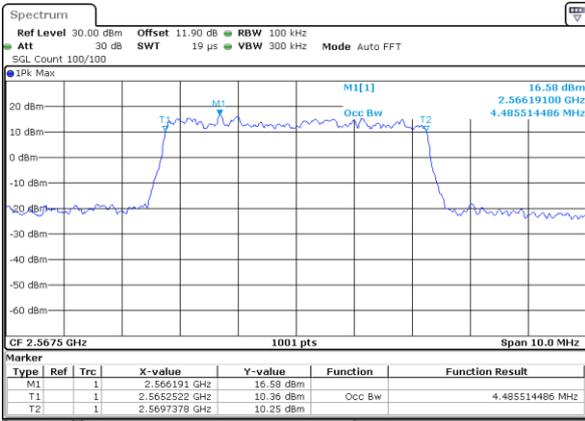
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Middle Channel / 10MHz / 64QAM



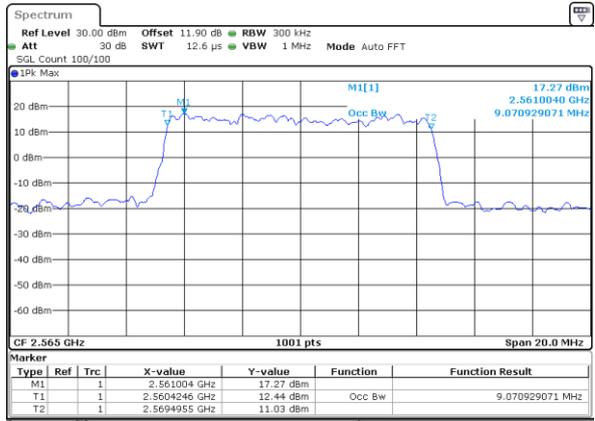
Date: 1.NOV.2017 09:48:37

Highest Channel / 5MHz / 64QAM



Date: 1.NOV.2017 09:47:50

Highest Channel / 10MHz / 64QAM

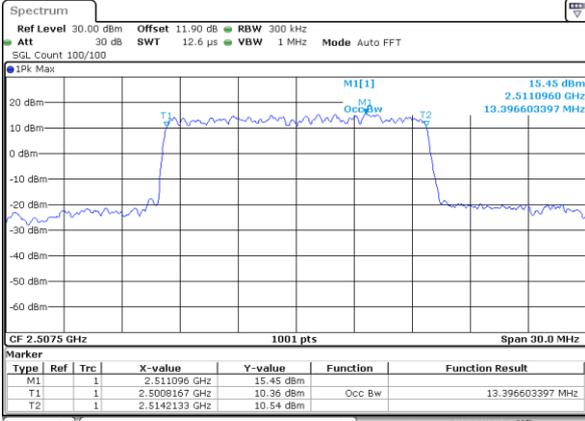


Date: 1.NOV.2017 09:49:01



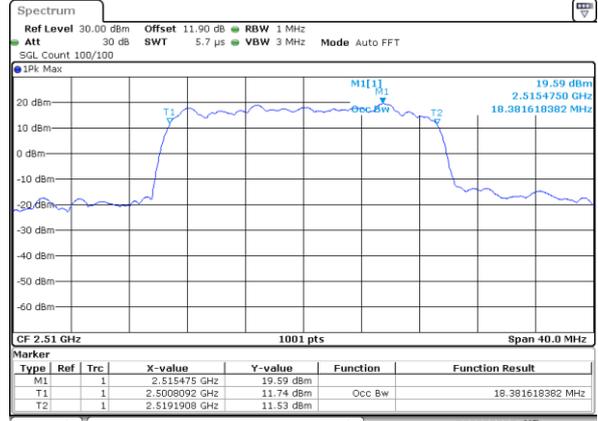
LTE Band 7

Lowest Channel / 15MHz / 64QAM



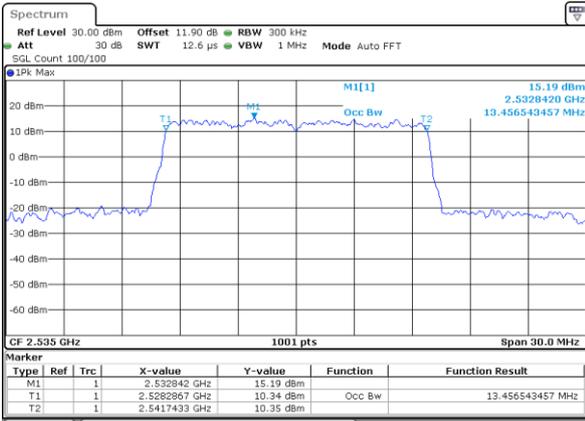
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Lowest Channel / 20MHz / 64QAM



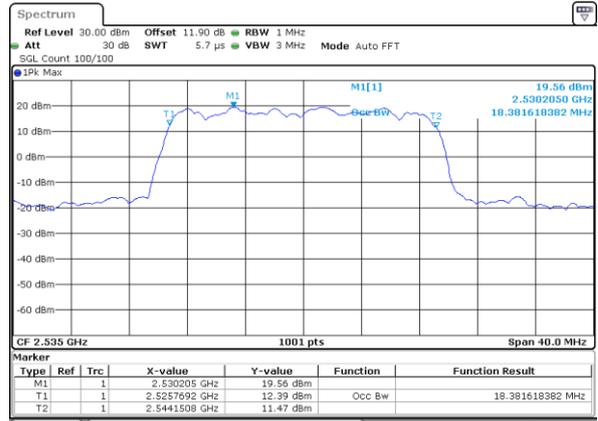
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Middle Channel / 15MHz / 64QAM



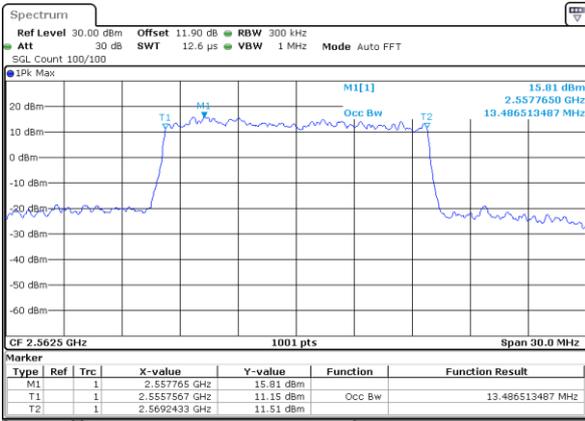
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Middle Channel / 20MHz / 64QAM



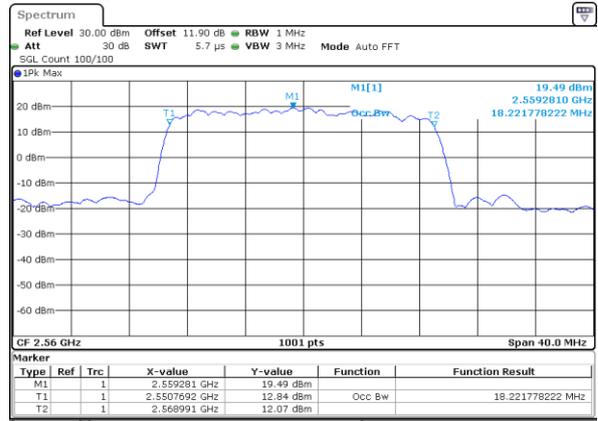
Date: 1.NOV.2017 09:50:59

Highest Channel / 15MHz / 64QAM



Date: 1.NOV.2017 09:50:12

Highest Channel / 20MHz / 64QAM



Date: 1.NOV.2017 09:51:22

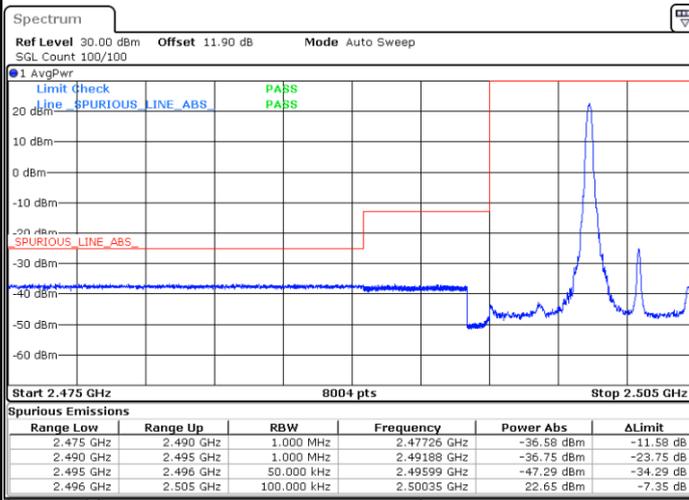


Conducted Band Edge



LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



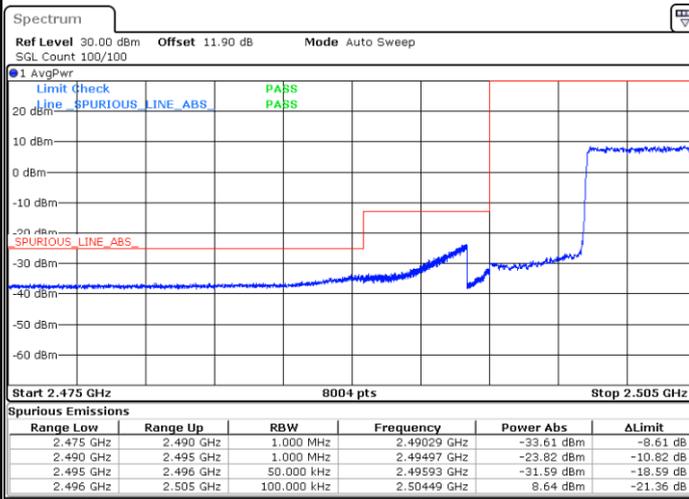
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Highest Band Edge / 1 RB



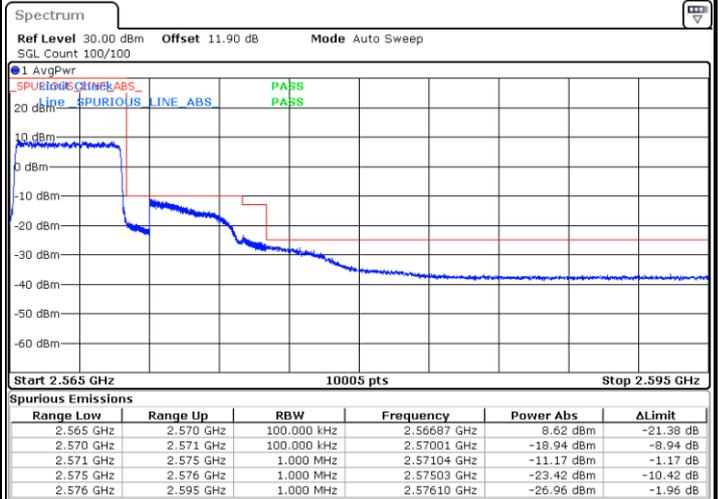
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Lowest Band Edge / Full RB



Date: 7 SEP.2017 10:04:54

Highest Band Edge / Full RB

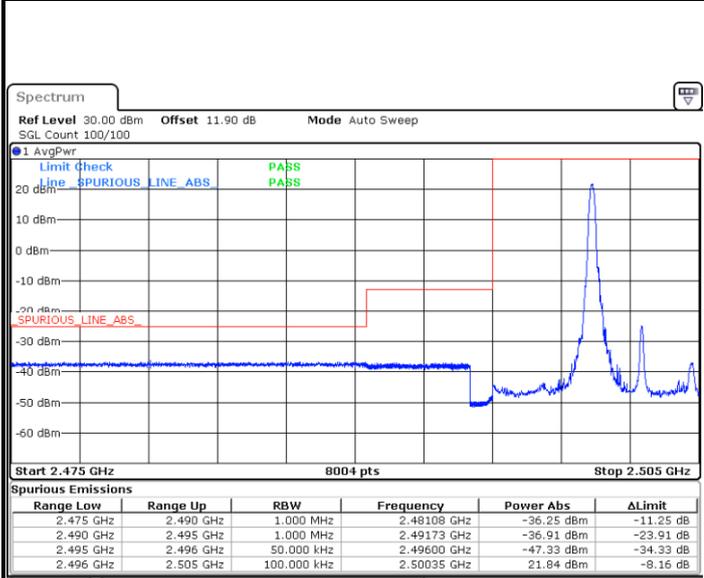


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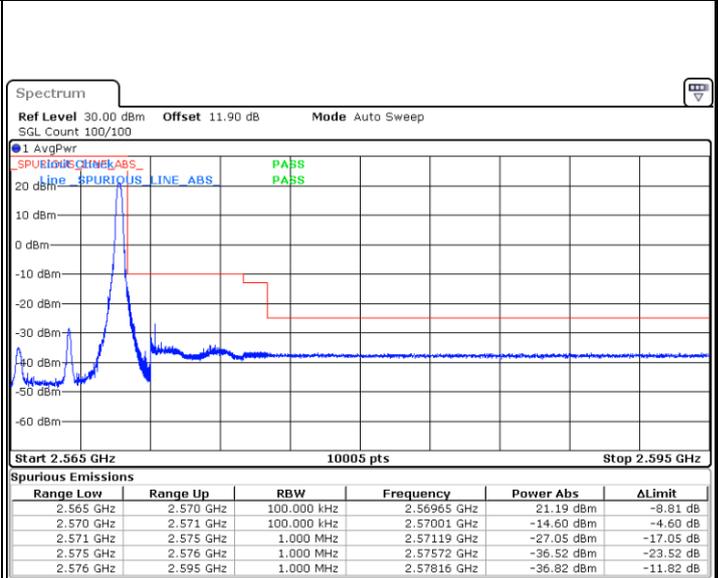
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



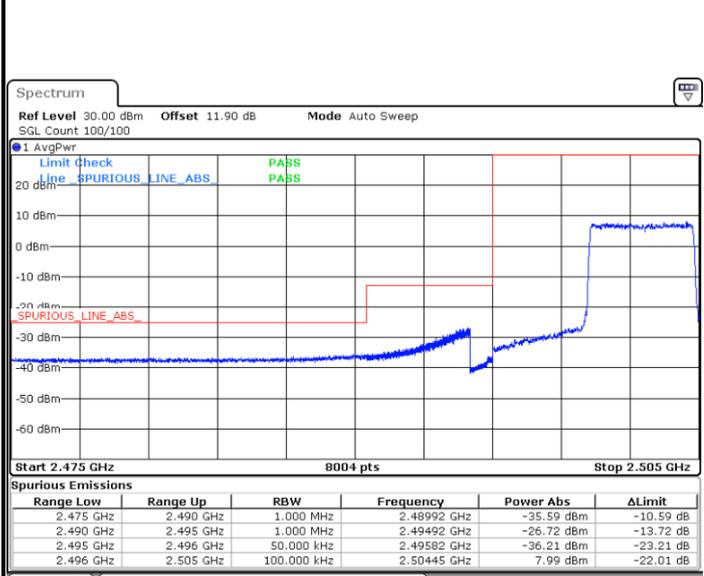
Date: 7 SEP.2017 10:03:45

Highest Band Edge / 1 RB



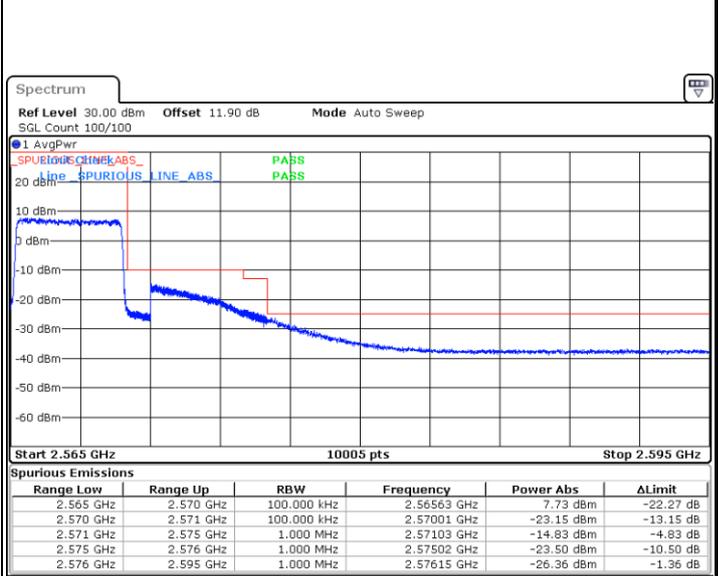
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Lowest Band Edge / Full RB



Date: 7 SEP.2017 10:06:03

Highest Band Edge / Full RB

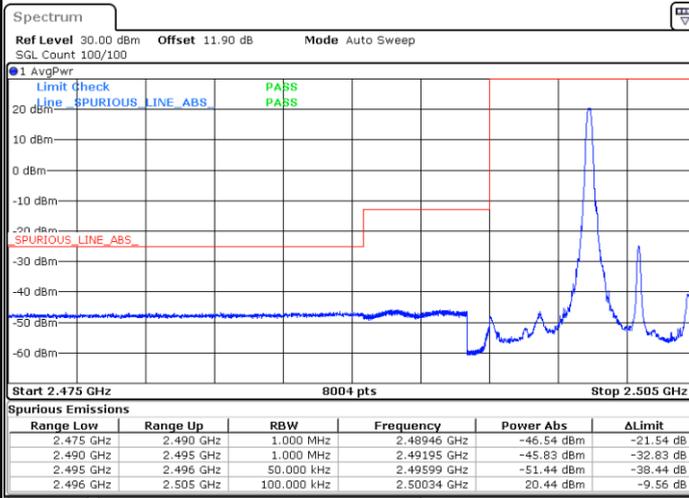


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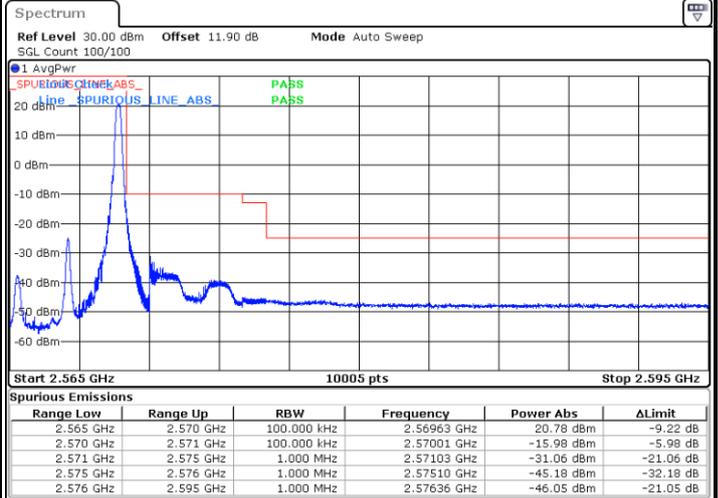
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



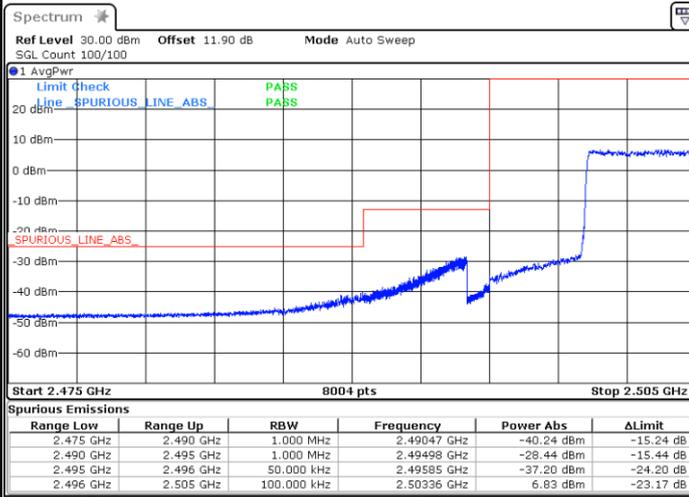
Date: 20.OCT.2017 09:02:17

Highest Band Edge / 1 RB



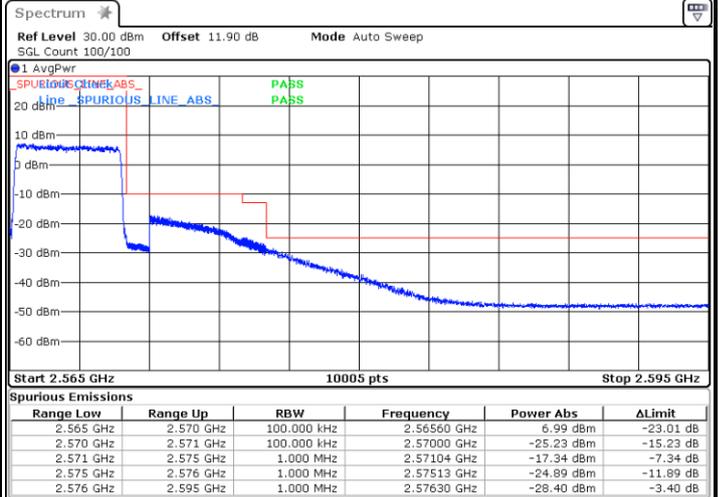
Date: 20.OCT.2017 09:07:18

Lowest Band Edge / Full RB



Date: 20.OCT.2017 09:03:30

Highest Band Edge / Full RB



Date: 20.OCT.2017 09:08:30