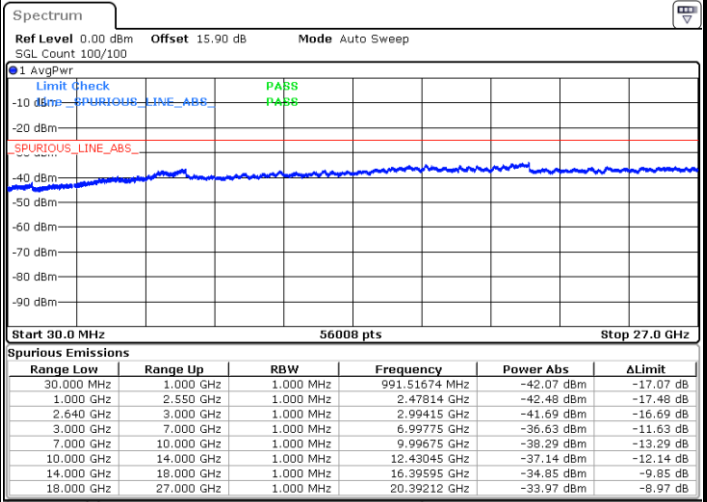
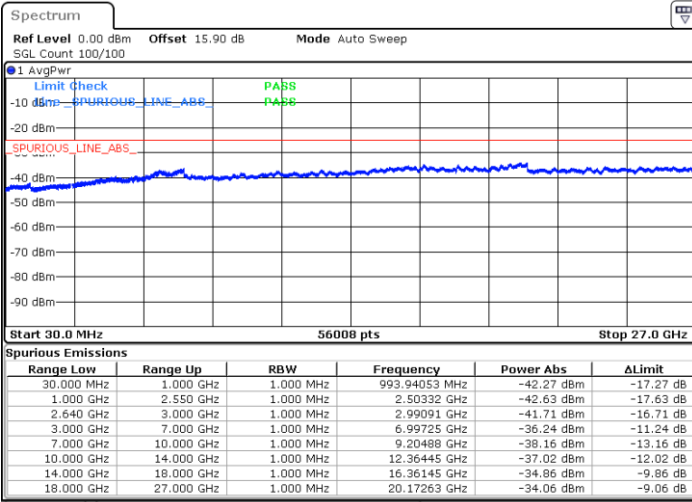




LTE Band 38 / 20MHz

Lowest Channel / 64QAM

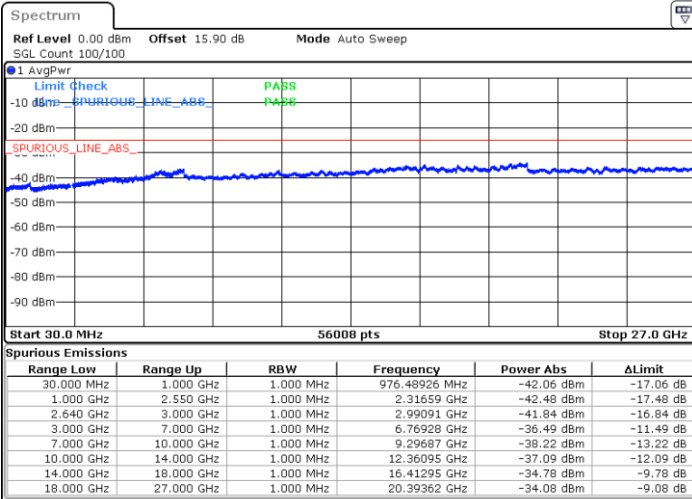
Middle Channel / 64QAM



Date: 29.SEP.2017 12:18:14

Date: 29.SEP.2017 12:19:07

Highest Channel / 64QAM



Date: 29.SEP.2017 12:20:01



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0090	PASS
40	Normal Voltage	0.0086	
30	Normal Voltage	0.0087	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0089	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0007	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 41

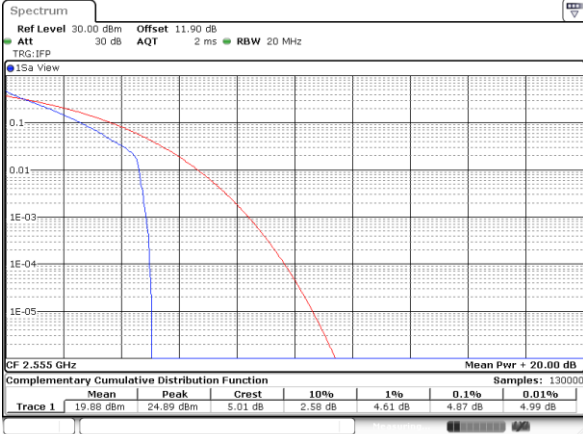
## Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.87	5.3	5.65	6.23	<b>PASS</b>
Middle CH	4.38	5.3	5.28	6.29	
Highest CH	4.2	5.3	5.19	6.26	
Mode	LTE Band 41 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.26	6.61	-	-	<b>PASS</b>
Middle CH	6.17	6.93	-	-	
Highest CH	6.29	6.61	-	-	



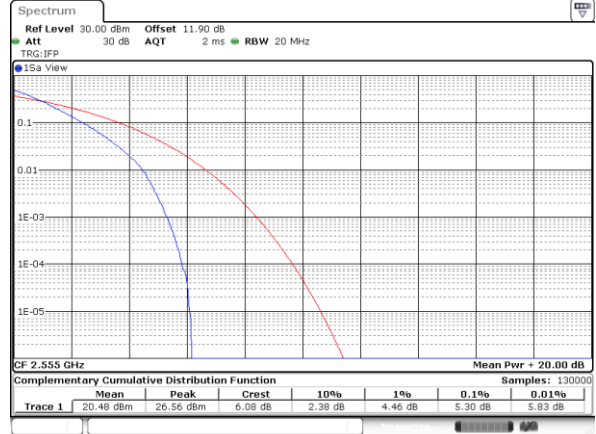
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



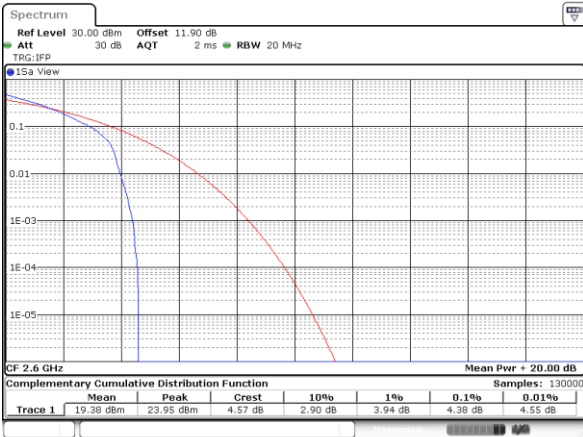
Date: 15.SEP.2017 21:00:19

Lowest Channel / Full RB



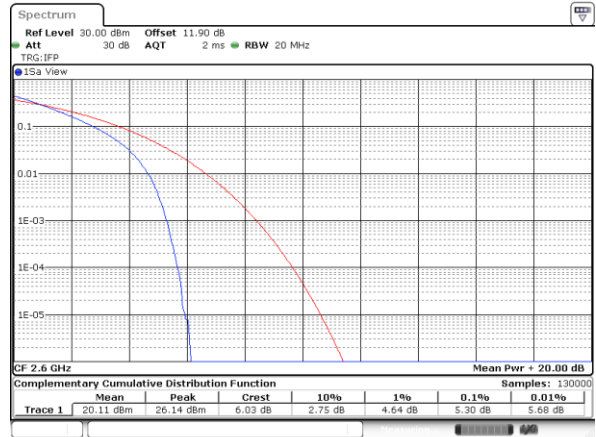
Date: 15.SEP.2017 21:00:36

Middle Channel / 1RB



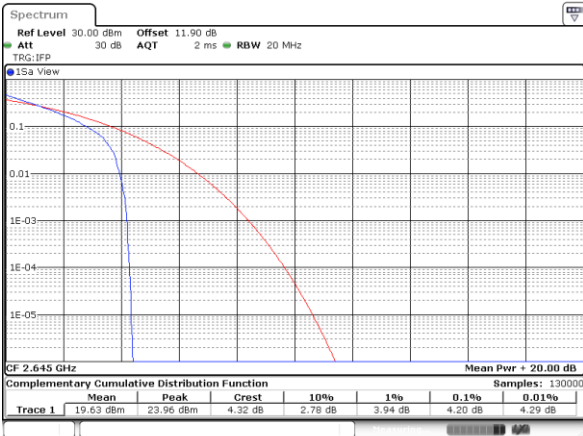
Date: 15.SEP.2017 21:00:54

Middle Channel / Full RB



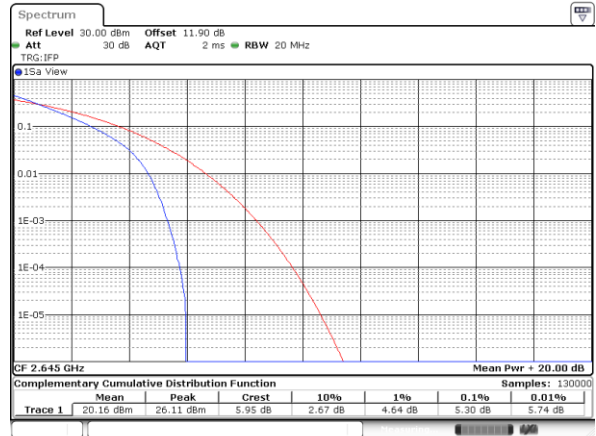
Date: 15.SEP.2017 21:01:13

Highest Channel / 1RB



Date: 15.SEP.2017 21:02:12

Highest Channel / Full RB

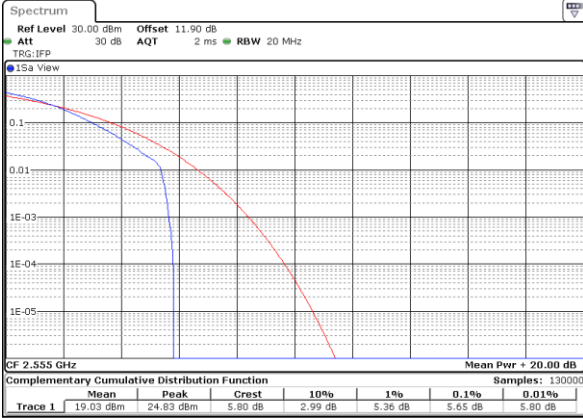


Date: 15.SEP.2017 21:02:28



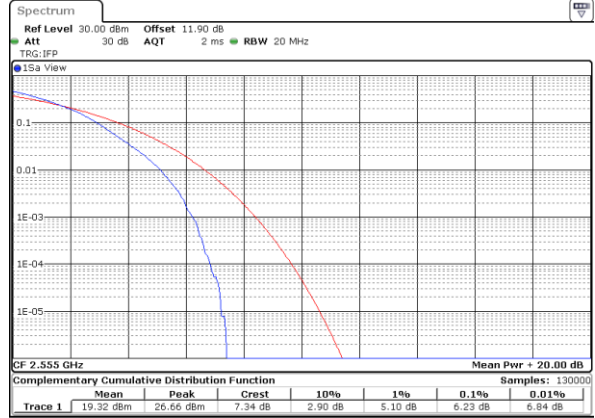
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



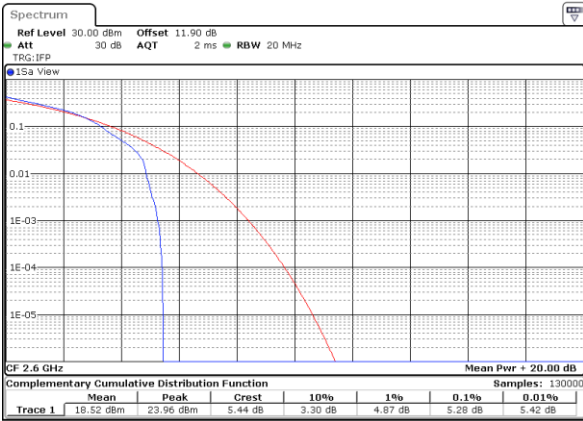
Date: 15 SEP 2017 20:58:28

Lowest Channel / Full RB



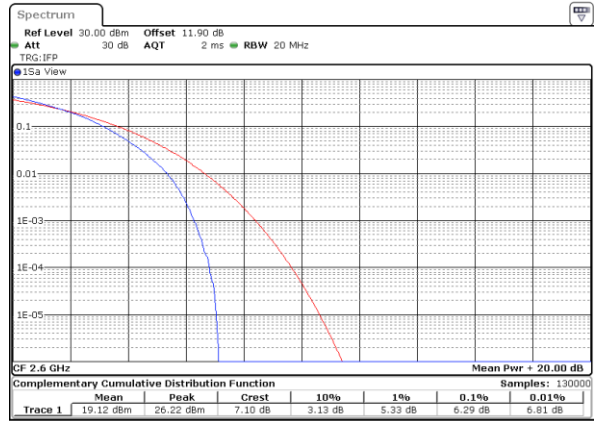
Date: 15 SEP 2017 21:14:22

Middle Channel / 1RB



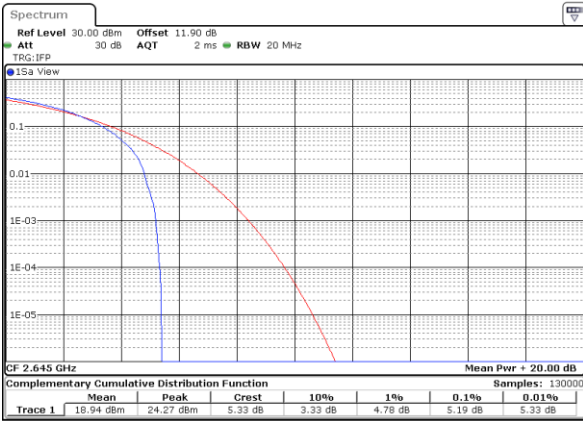
Date: 15 SEP 2017 20:58:53

Middle Channel / Full RB



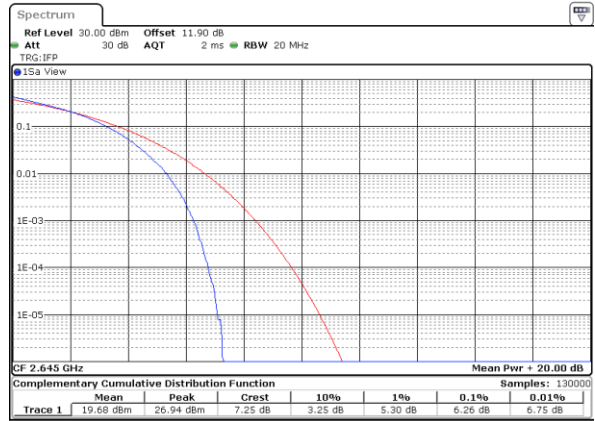
Date: 15 SEP 2017 20:59:13

Highest Channel / 1RB



Date: 15 SEP 2017 20:59:32

Highest Channel / Full RB

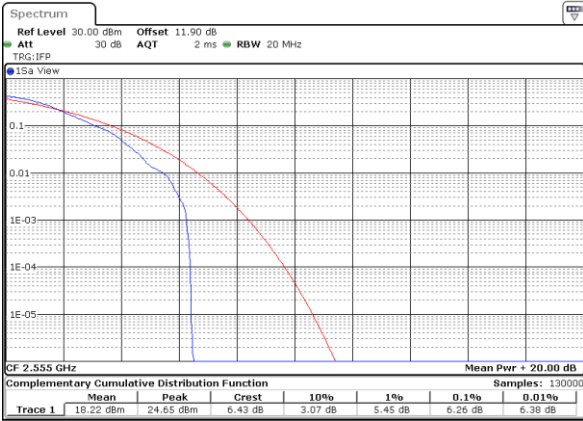


Date: 15 SEP 2017 20:59:49



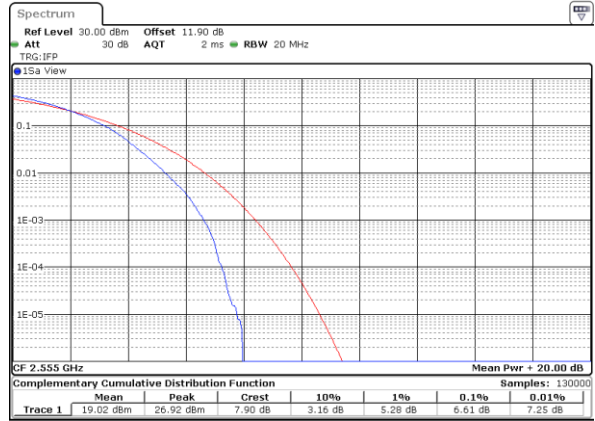
LTE Band 41 / 20MHz / 64QAM

Lowest Channel / 1RB



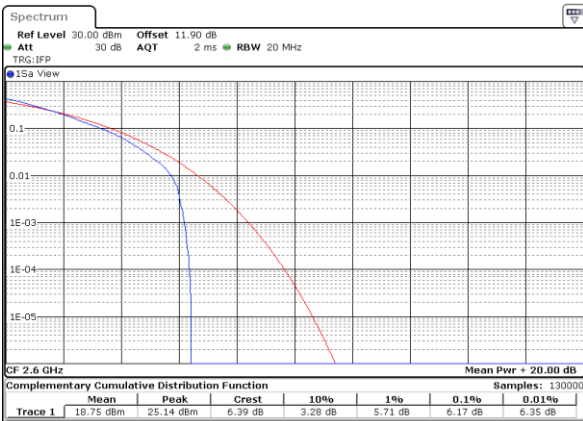
Date: 29 SEP 2017 14:00:26

Lowest Channel / Full RB



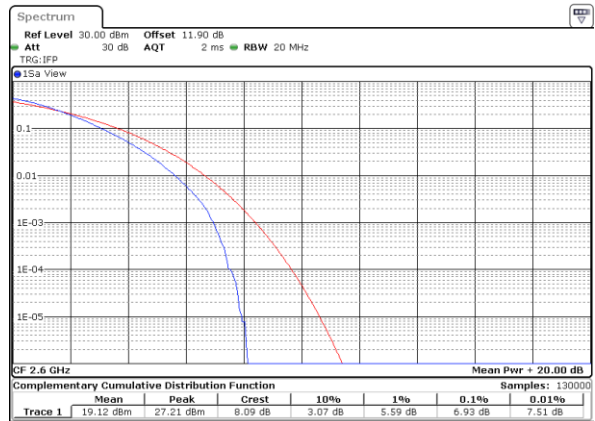
Date: 29 SEP 2017 14:00:43

Middle Channel / 1RB



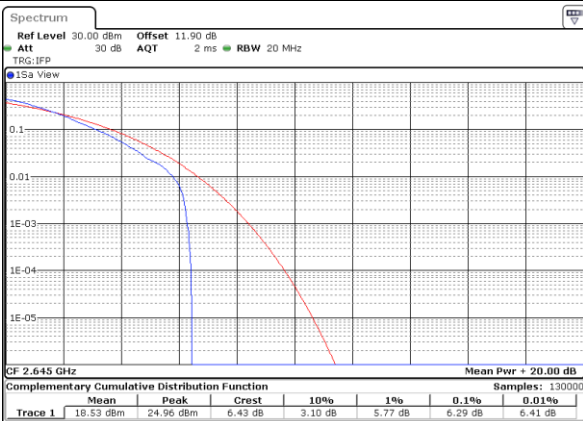
Date: 29 SEP 2017 14:01:01

Middle Channel / Full RB



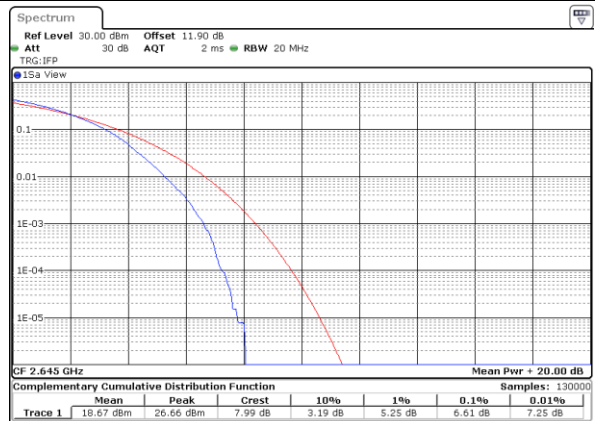
Date: 29 SEP 2017 14:01:16

Highest Channel / 1RB



Date: 29 SEP 2017 14:01:35

Highest Channel / Full RB



Date: 29 SEP 2017 14:01:52



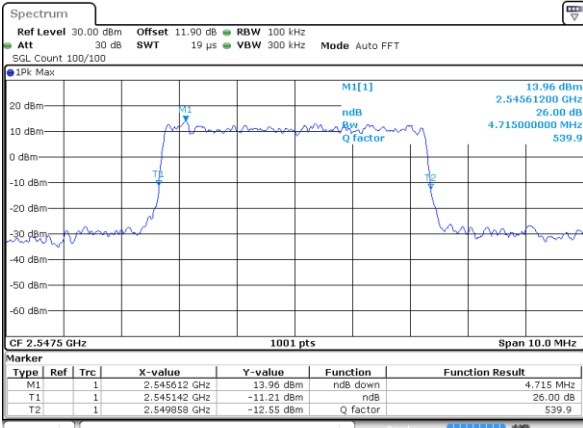
**26dB Bandwidth**

Mode	LTE Band 41 : 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	-	-	-	-	4.72	4.81	9.73	9.77	14.18	14.27	20.30	20.10
Middle CH	-	-	-	-	4.92	4.82	9.65	9.73	14.27	14.30	20.18	20.34
Highest CH	-	-	-	-	4.76	4.81	9.75	9.65	14.30	14.45	20.10	20.10
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.85	-	9.63	-	14.36	-	20.06	-
Middle CH	-	-	-	-	4.87	-	9.65	-	14.33	-	20.06	-
Highest CH	-	-	-	-	4.8	-	9.83	-	14.3	-	20.1	-



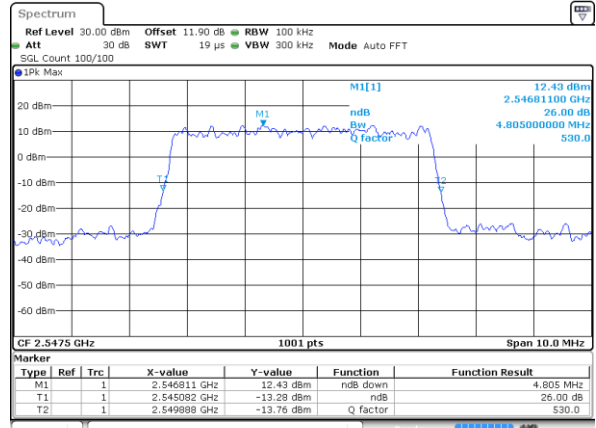
LTE Band 41

Lowest Channel / 5MHz / QPSK



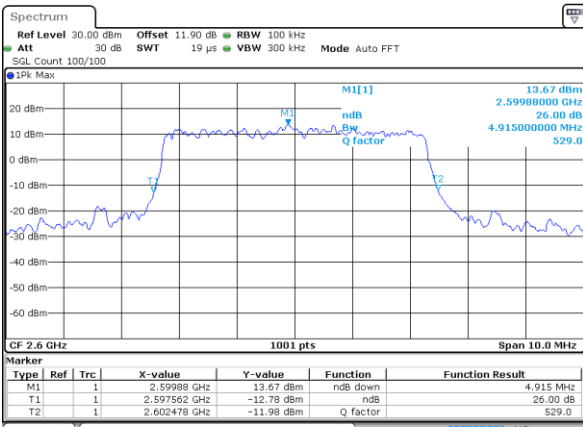
Date: 15 SEP 2017 20:50:01

Lowest Channel / 5MHz / 16QAM



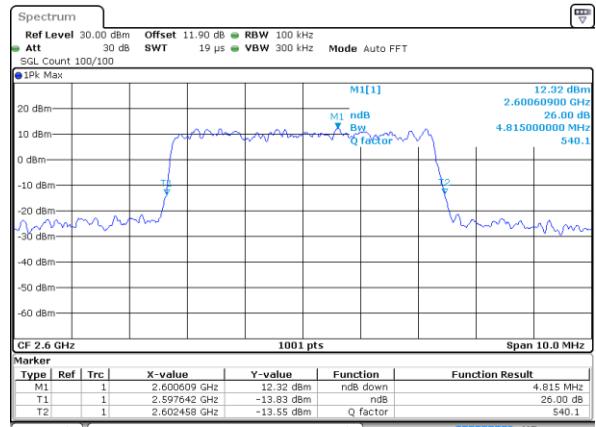
Date: 15 SEP 2017 20:50:11

Middle Channel / 5MHz / QPSK



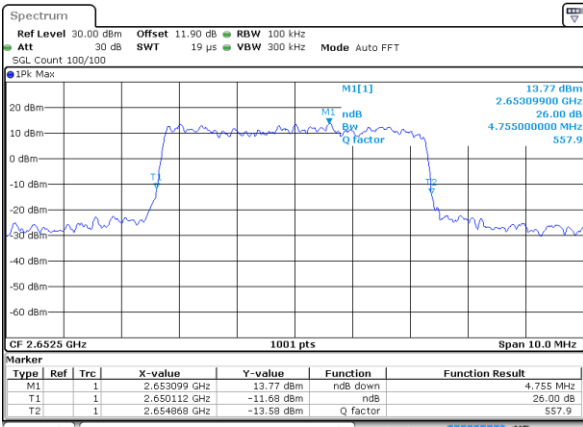
Date: 15 SEP 2017 20:50:41

Middle Channel / 5MHz / 16QAM



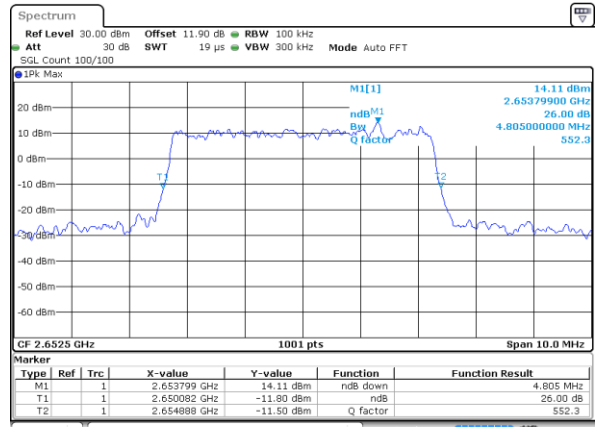
Date: 15 SEP 2017 20:50:51

Highest Channel / 5MHz / QPSK



Date: 15 SEP 2017 20:51:21

Highest Channel / 5MHz / 16QAM



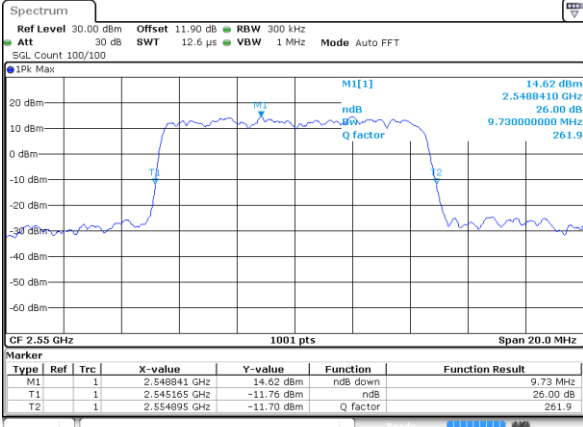
Date: 15 SEP 2017 20:51:31





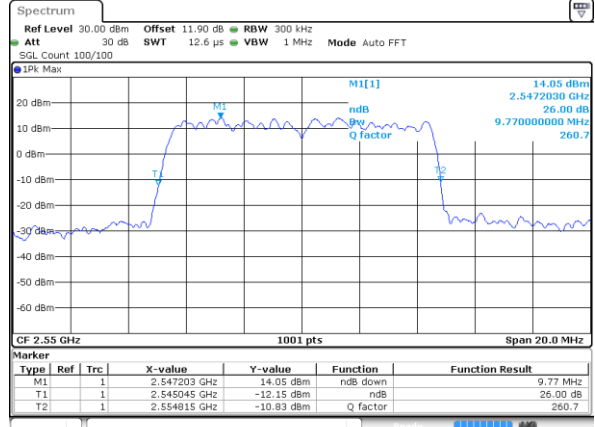
LTE Band 41

Lowest Channel / 10MHz / QPSK



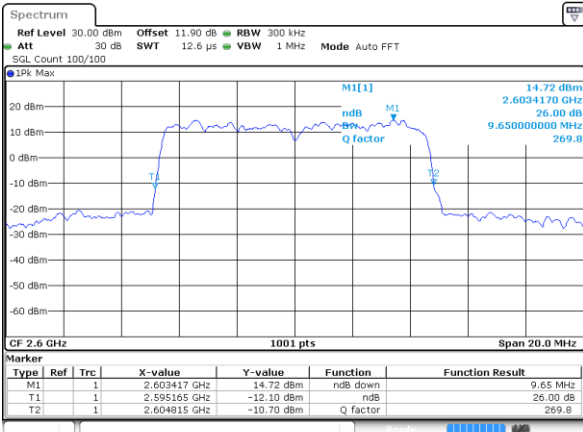
Date: 15 SEP 2017 20:52:01

Lowest Channel / 10MHz / 16QAM



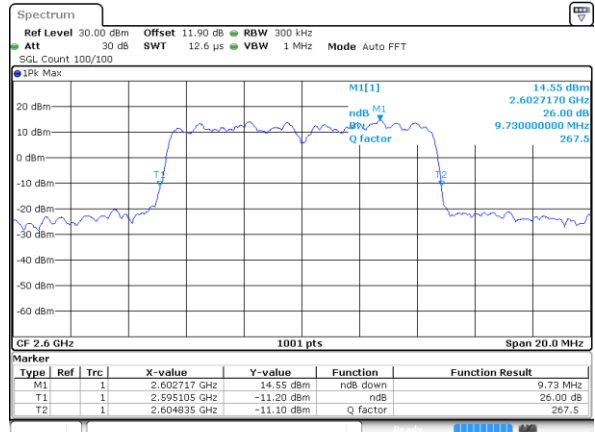
Date: 15 SEP 2017 20:52:11

Middle Channel / 10MHz / QPSK



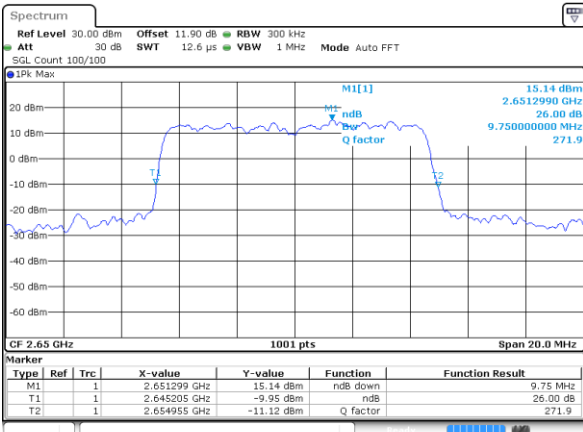
Date: 15 SEP 2017 20:52:41

Middle Channel / 10MHz / 16QAM



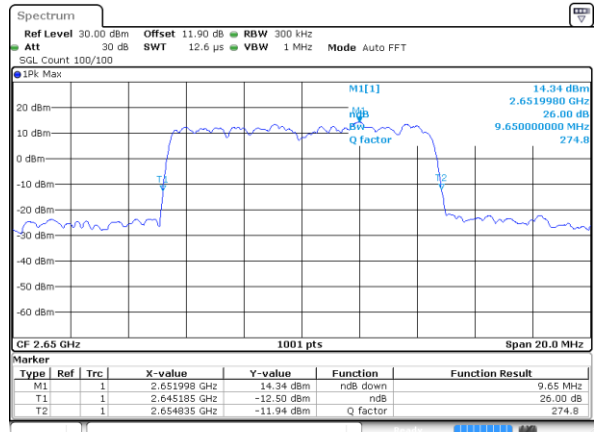
Date: 15 SEP 2017 20:52:51

Highest Channel / 10MHz / QPSK



Date: 15 SEP 2017 20:53:21

Highest Channel / 10MHz / 16QAM

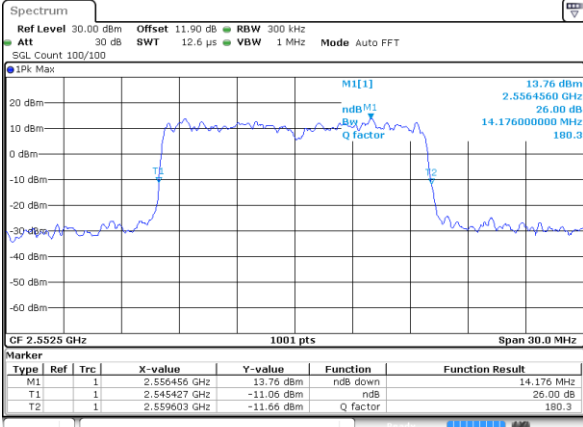


Date: 15 SEP 2017 20:53:31



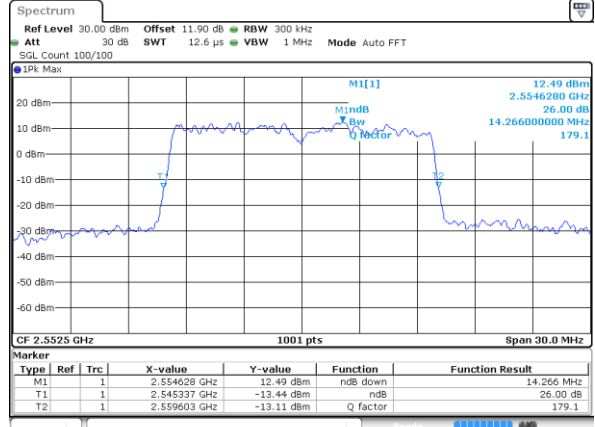
LTE Band 41

Lowest Channel / 15MHz / QPSK



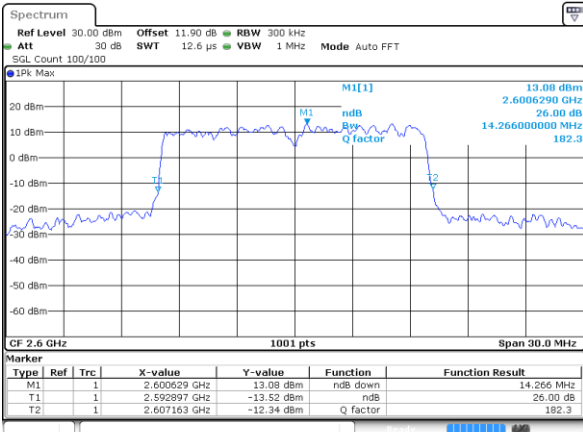
Date: 15 SEP 2017 20:54:01

Lowest Channel / 15MHz / 16QAM



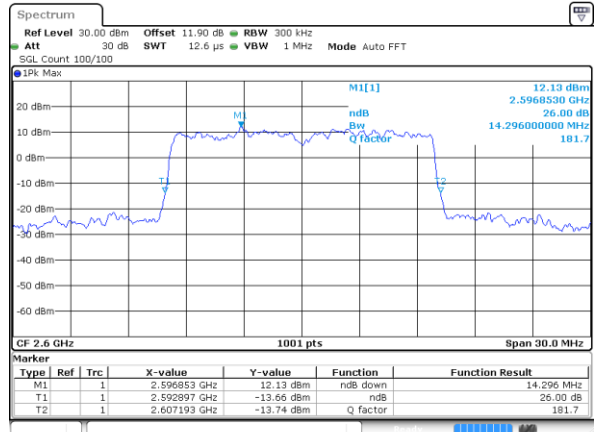
Date: 15 SEP 2017 20:54:12

Middle Channel / 15MHz / QPSK



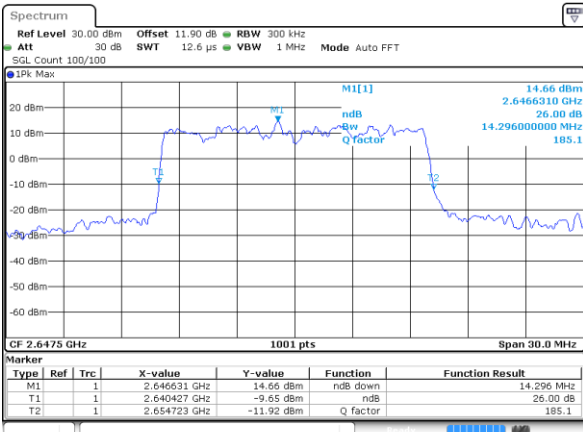
Date: 15 SEP 2017 20:54:42

Middle Channel / 15MHz / 16QAM



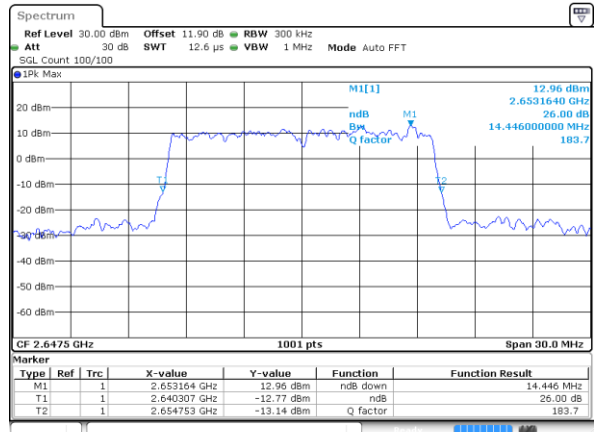
Date: 15 SEP 2017 20:54:52

Highest Channel / 15MHz / QPSK



Date: 15 SEP 2017 20:55:22

Highest Channel / 15MHz / 16QAM

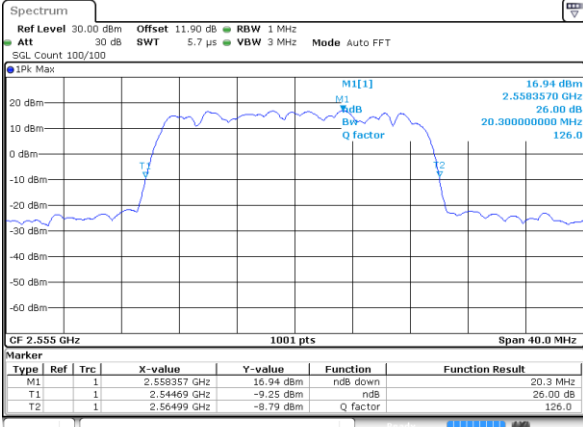


Date: 15 SEP 2017 20:55:32



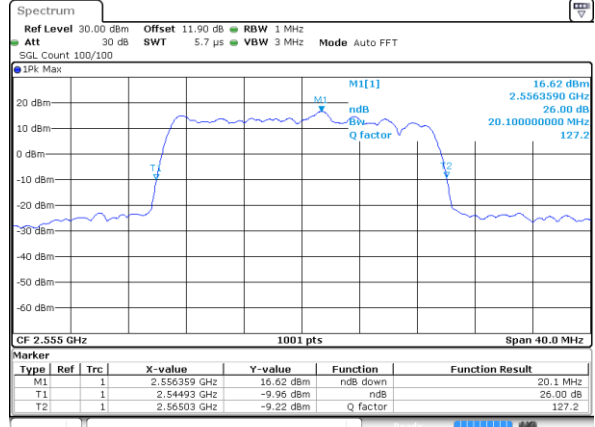
LTE Band 41

Lowest Channel / 20MHz / QPSK



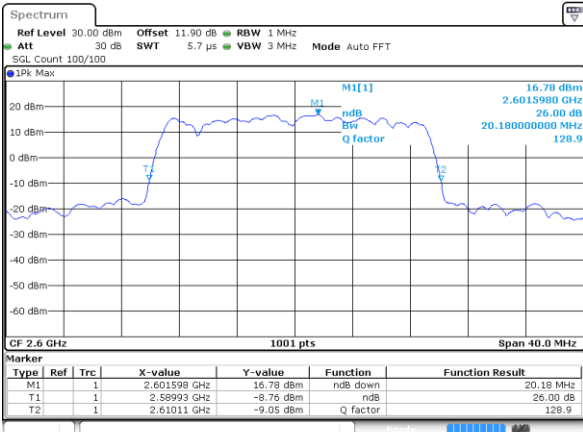
Date: 15 SEP 2017 20:56:02

Lowest Channel / 20MHz / 16QAM



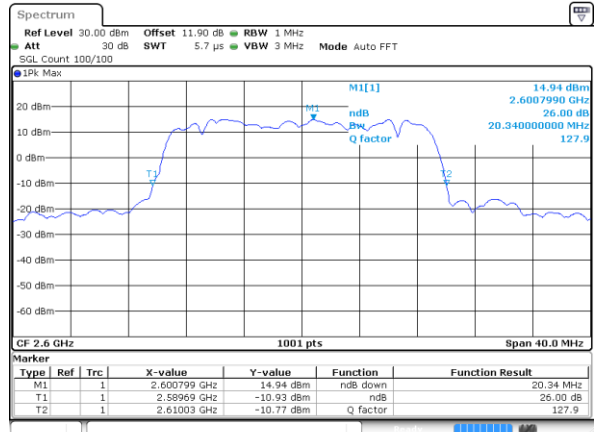
Date: 15 SEP 2017 20:56:12

Middle Channel / 20MHz / QPSK



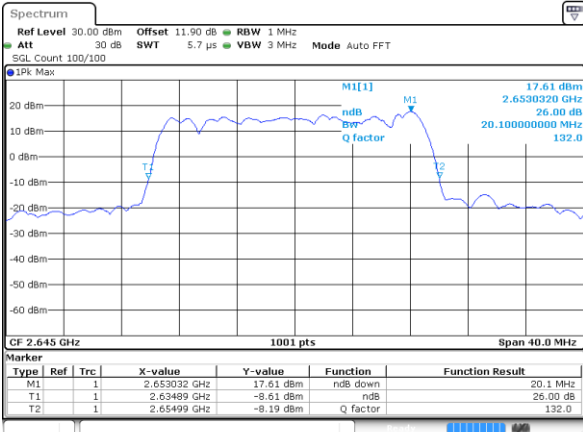
Date: 15 SEP 2017 20:56:42

Middle Channel / 20MHz / 16QAM



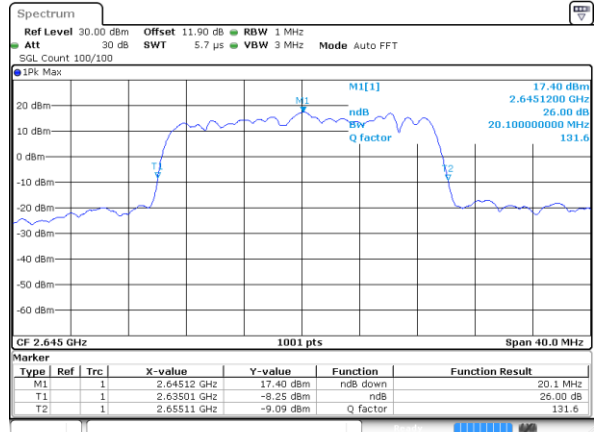
Date: 15 SEP 2017 20:56:52

Highest Channel / 20MHz / QPSK



Date: 15 SEP 2017 20:57:22

Highest Channel / 20MHz / 16QAM

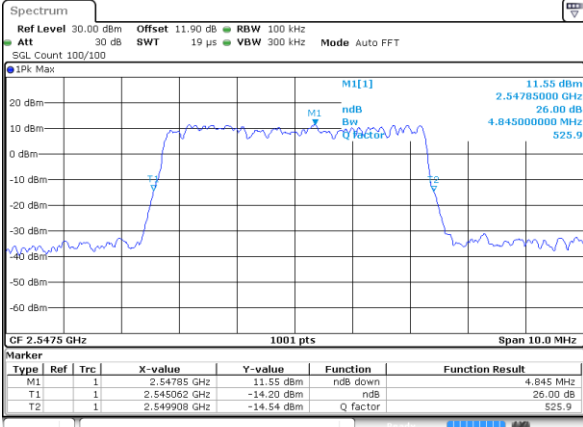


Date: 15 SEP 2017 20:57:32



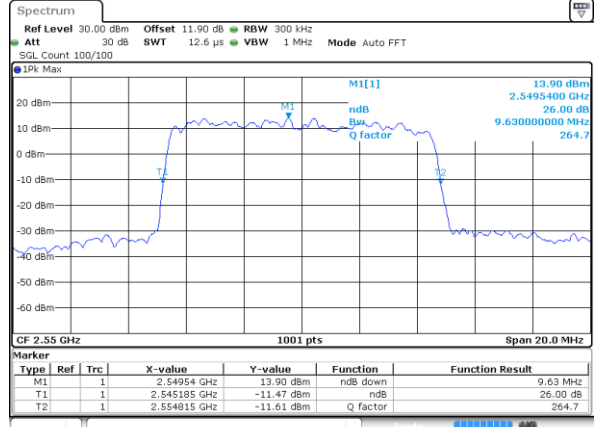
LTE Band 41

Lowest Channel / 5MHz / 64QAM



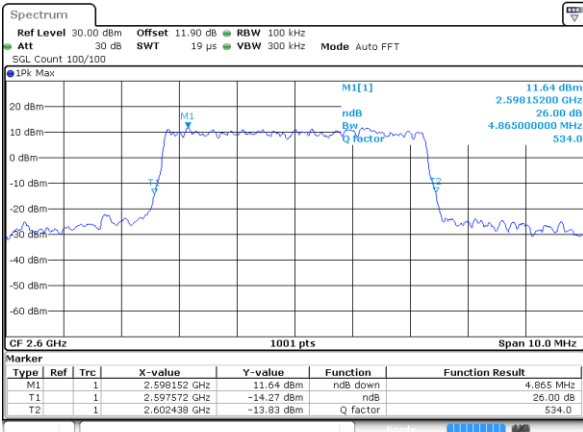
Date: 29 SEP 2017 13:56:07

Lowest Channel / 10MHz / 64QAM



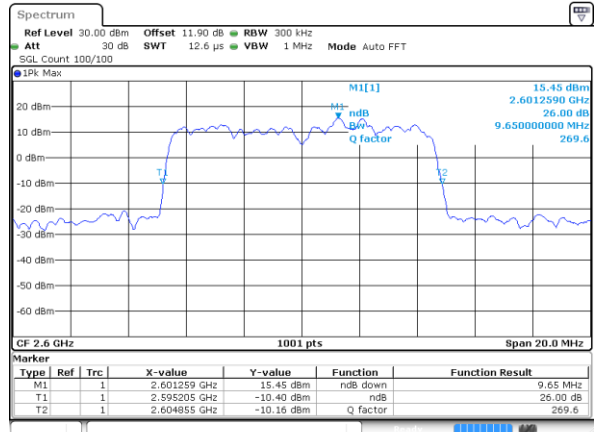
Date: 29 SEP 2017 13:57:13

Middle Channel / 5MHz / 64QAM



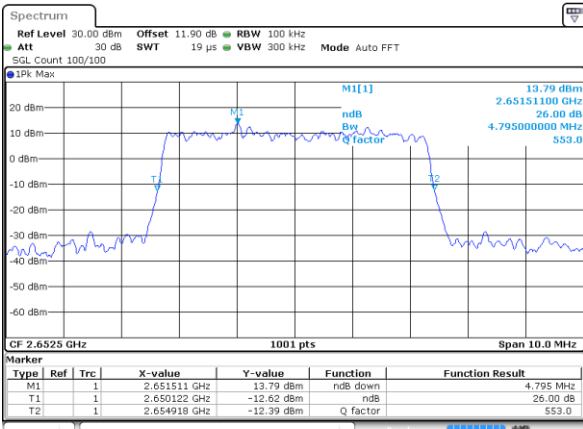
Date: 29 SEP 2017 13:56:29

Middle Channel / 10MHz / 64QAM



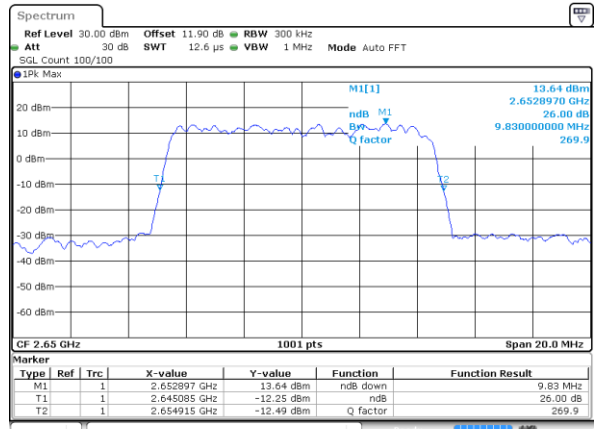
Date: 29 SEP 2017 13:57:33

Highest Channel / 5MHz / 64QAM



Date: 29 SEP 2017 13:56:51

Highest Channel / 10MHz / 64QAM

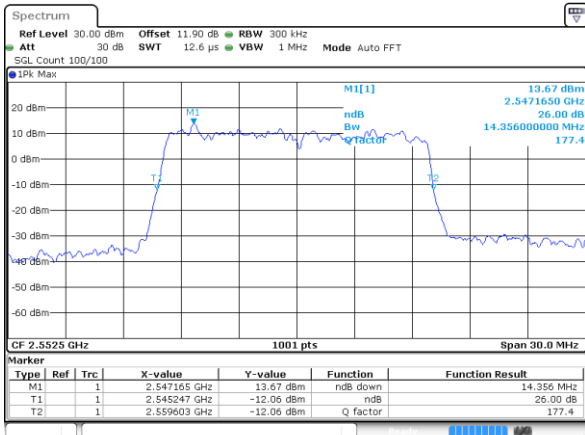


Date: 29 SEP 2017 13:57:55



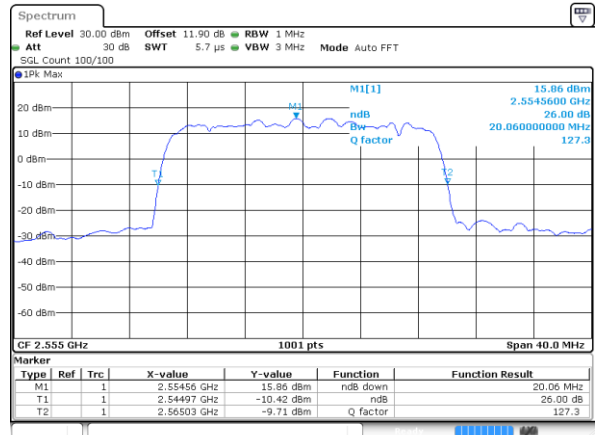
LTE Band 41

Lowest Channel / 15MHz / 64QAM



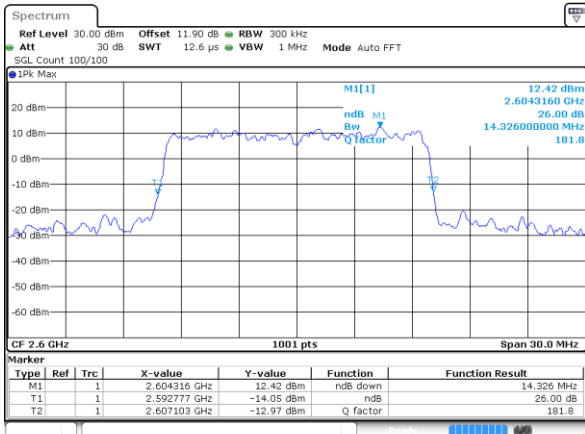
Date: 29 SEP 2017 13:58:17

Lowest Channel / 20MHz / 64QAM



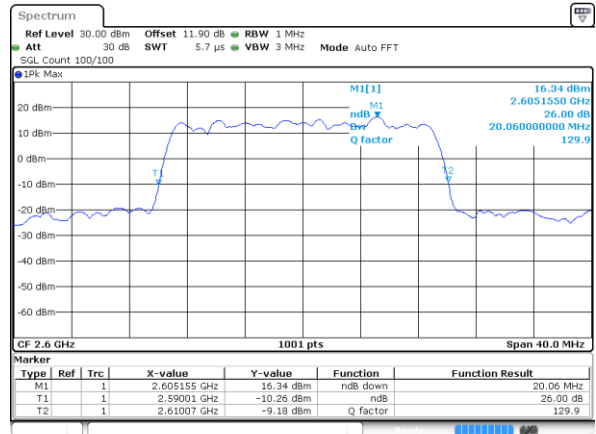
Date: 29 SEP 2017 13:59:21

Middle Channel / 15MHz / 64QAM



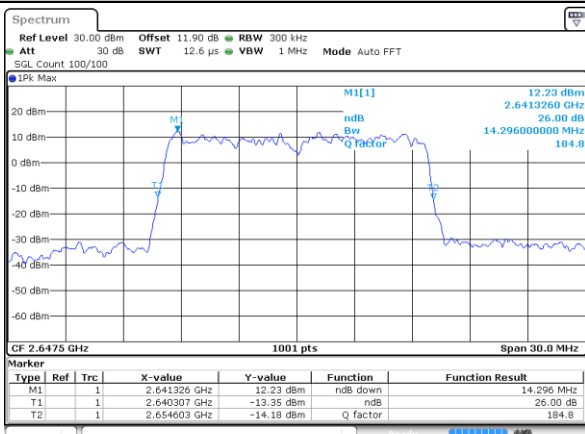
Date: 29 SEP 2017 13:58:38

Middle Channel / 20MHz / 64QAM



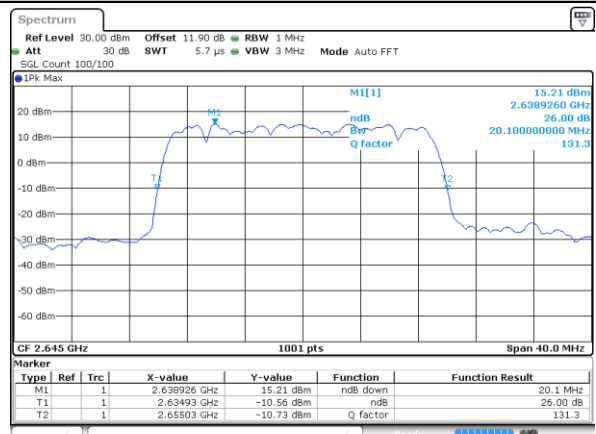
Date: 29 SEP 2017 13:59:42

Highest Channel / 15MHz / 64QAM



Date: 29 SEP 2017 13:59:00

Highest Channel / 20MHz / 64QAM



Date: 29 SEP 2017 14:00:04



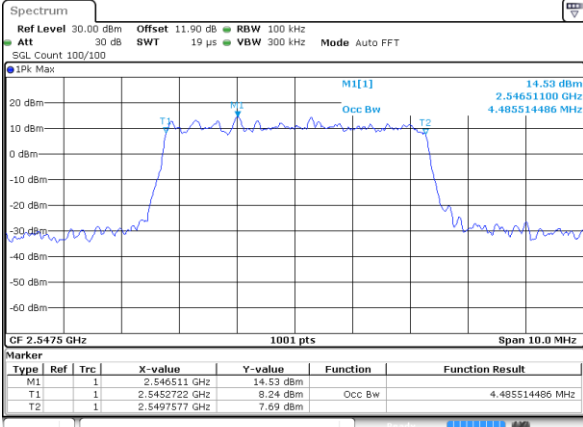
Occupied Bandwidth

Mode	LTE Band 41 : 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	-	-	-	-	4.49	4.51	9.07	9.01	13.43	13.46	18.38	18.14
Middle CH	-	-	-	-	4.48	4.5	9.01	8.97	13.46	13.43	18.5	18.1
Highest CH	-	-	-	-	4.49	4.46	8.95	8.99	13.49	13.4	18.38	18.18
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.47	-	8.99	-	13.49	-	18.3	-
Middle CH	-	-	-	-	4.51	-	9.07	-	13.46	-	18.3	-
Highest CH	-	-	-	-	4.46	-	8.97	-	13.49	-	18.22	-



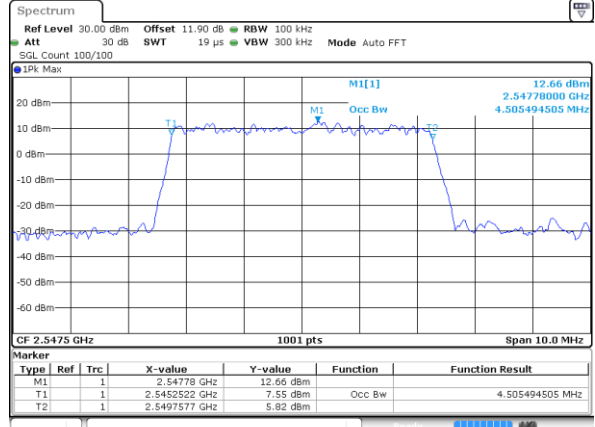
LTE Band 41

Lowest Channel / 5MHz / QPSK



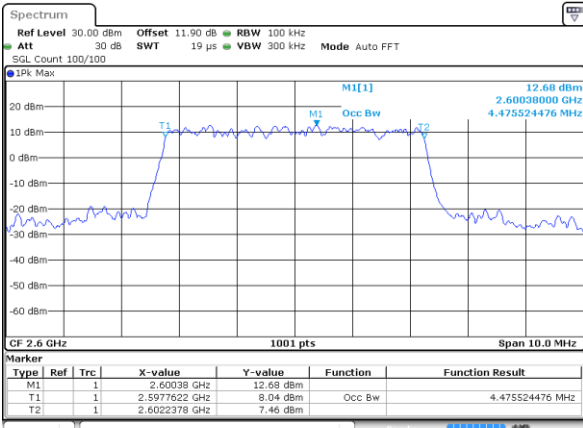
Date: 15 SEP 2017 20:49:41

Lowest Channel / 5MHz / 16QAM



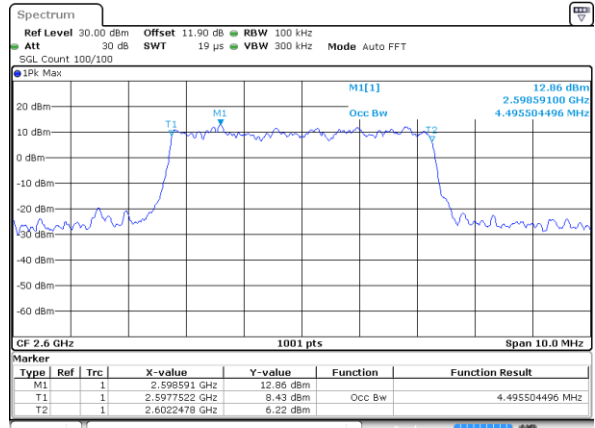
Date: 15 SEP 2017 20:49:51

Middle Channel / 5MHz / QPSK



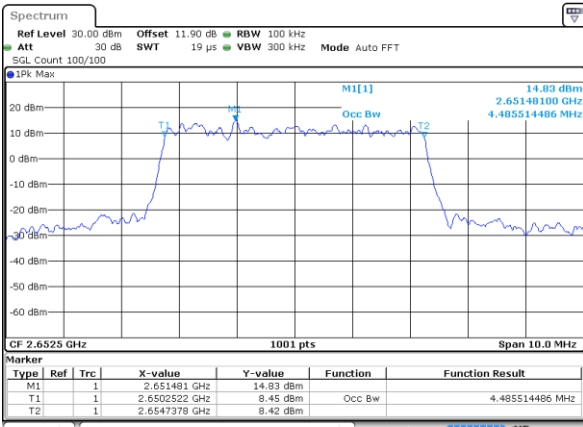
Date: 15 SEP 2017 20:50:21

Middle Channel / 5MHz / 16QAM



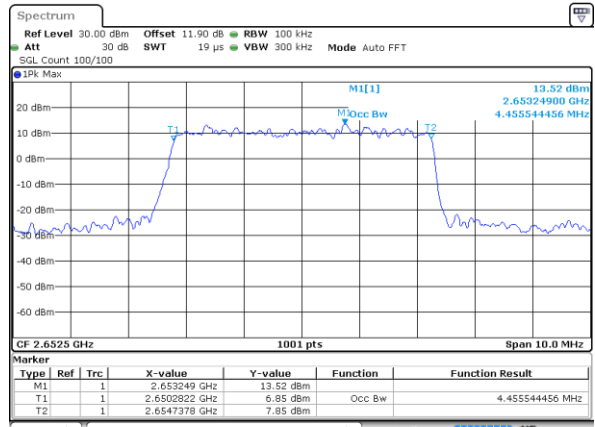
Date: 15 SEP 2017 20:50:31

Highest Channel / 5MHz / QPSK



Date: 15 SEP 2017 20:51:01

Highest Channel / 5MHz / 16QAM

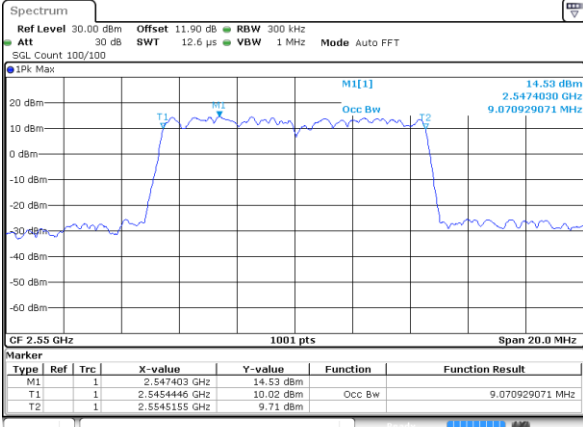


Date: 15 SEP 2017 20:51:11



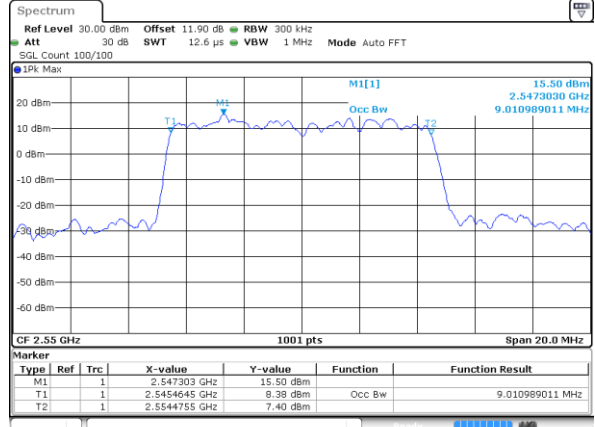
LTE Band 41

Lowest Channel / 10MHz / QPSK



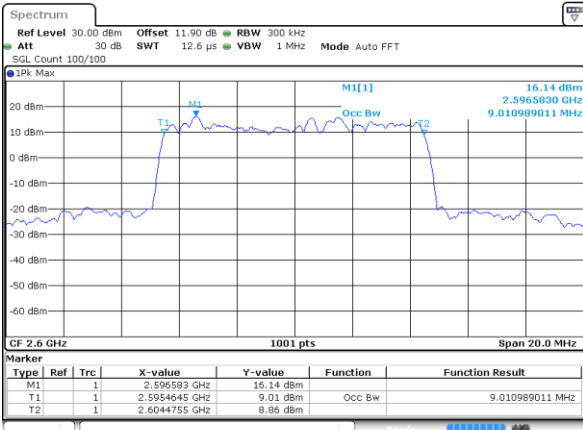
Date: 15 SEP 2017 20:51:41

Lowest Channel / 10MHz / 16QAM



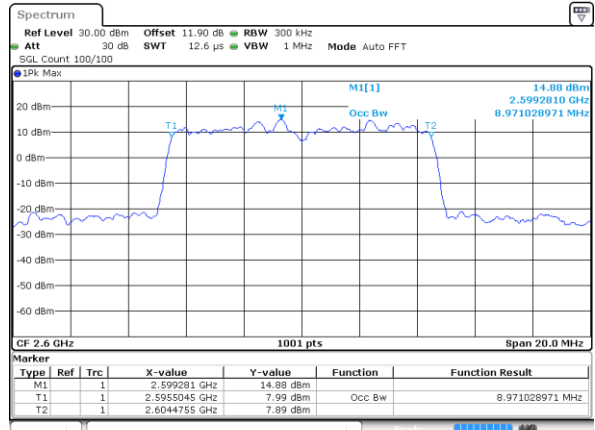
Date: 15 SEP 2017 20:51:51

Middle Channel / 10MHz / QPSK



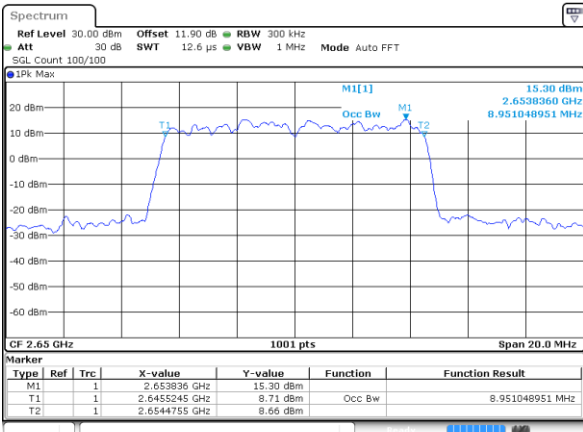
Date: 15 SEP 2017 20:52:21

Middle Channel / 10MHz / 16QAM



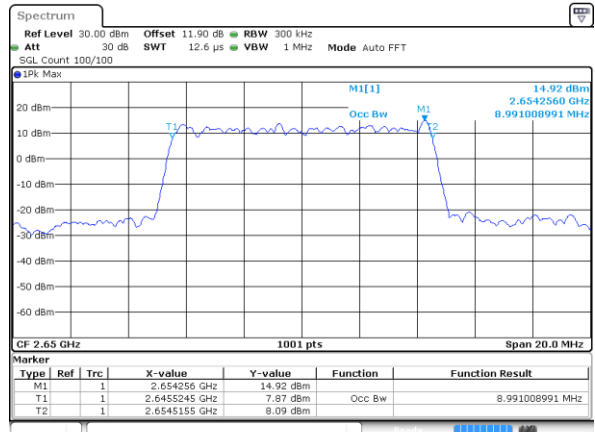
Date: 15 SEP 2017 20:52:31

Highest Channel / 10MHz / QPSK



Date: 15 SEP 2017 20:53:01

Highest Channel / 10MHz / 16QAM



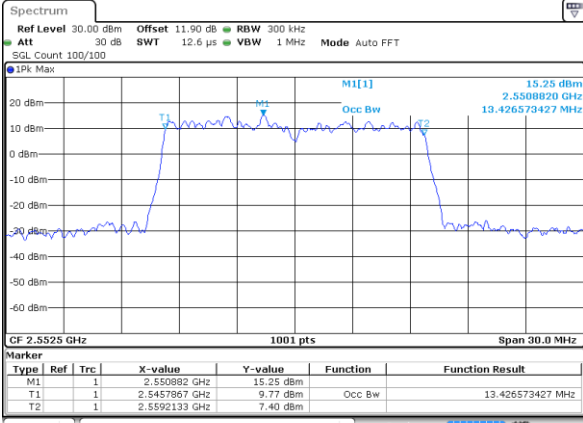
Date: 15 SEP 2017 20:53:11





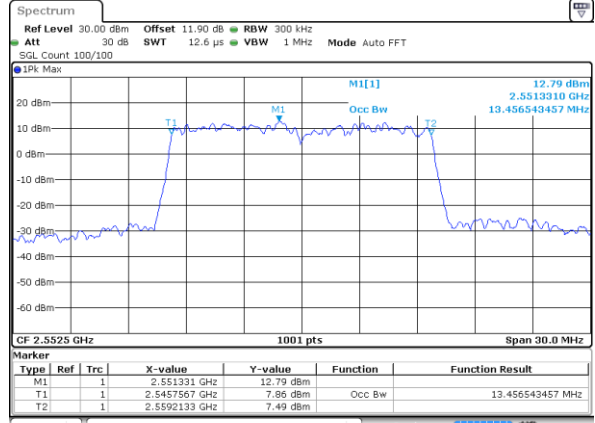
LTE Band 41

Lowest Channel / 15MHz / QPSK



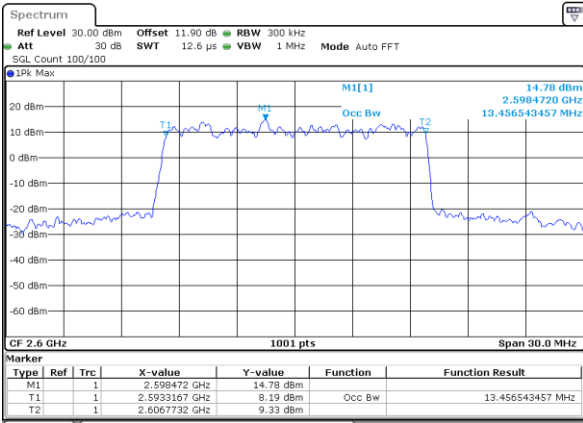
Date: 15 SEP 2017 20:53:41

Lowest Channel / 15MHz / 16QAM



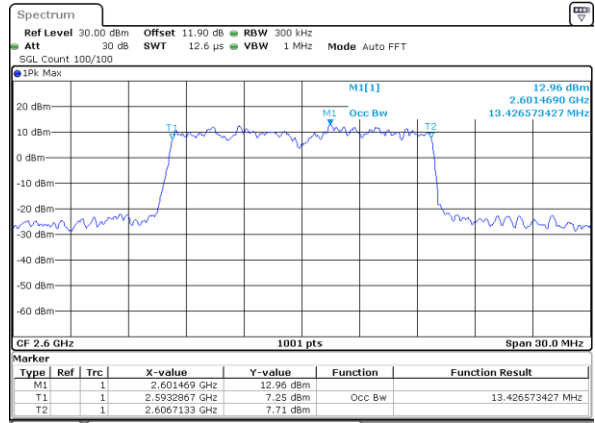
Date: 15 SEP 2017 20:53:51

Middle Channel / 15MHz / QPSK



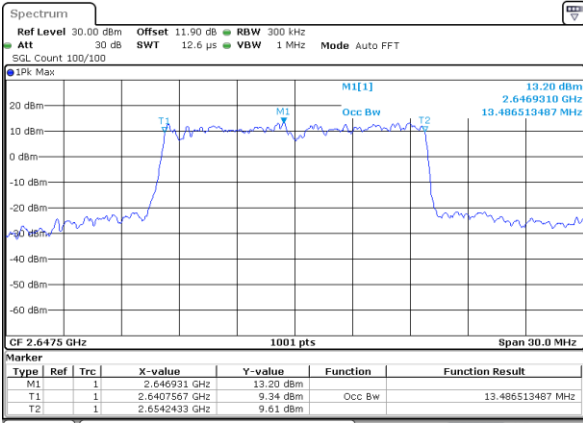
Date: 15 SEP 2017 20:54:22

Middle Channel / 15MHz / 16QAM



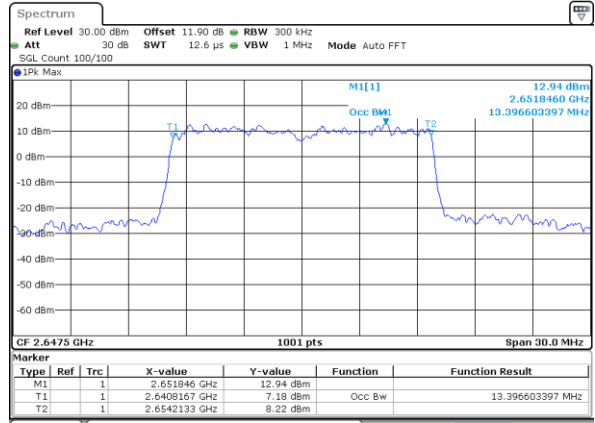
Date: 15 SEP 2017 20:54:32

Highest Channel / 15MHz / QPSK



Date: 15 SEP 2017 20:55:02

Highest Channel / 15MHz / 16QAM

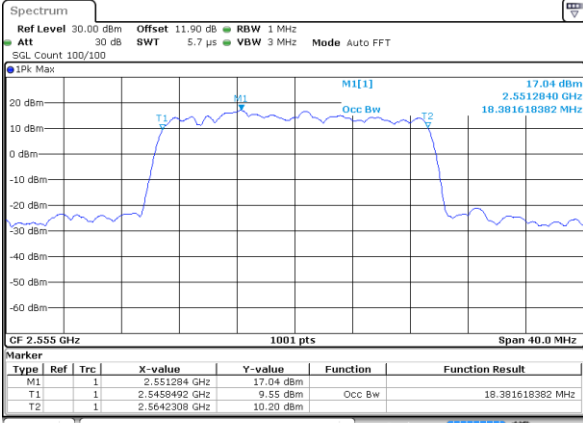


Date: 15 SEP 2017 20:55:12



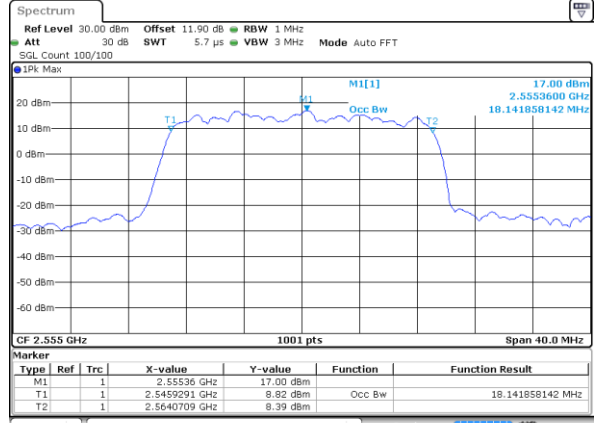
LTE Band 41

Lowest Channel / 20MHz / QPSK



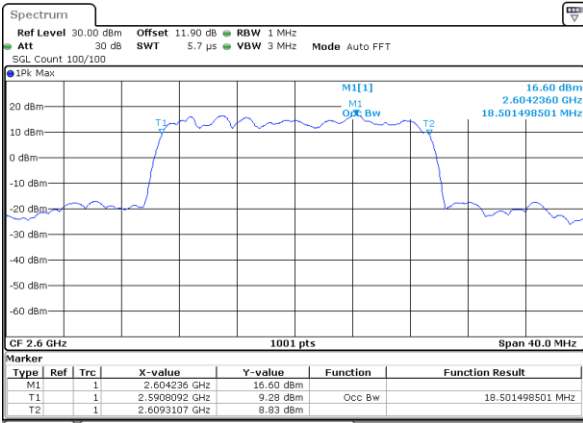
Date: 15 SEP 2017 20:55:42

Lowest Channel / 20MHz / 16QAM



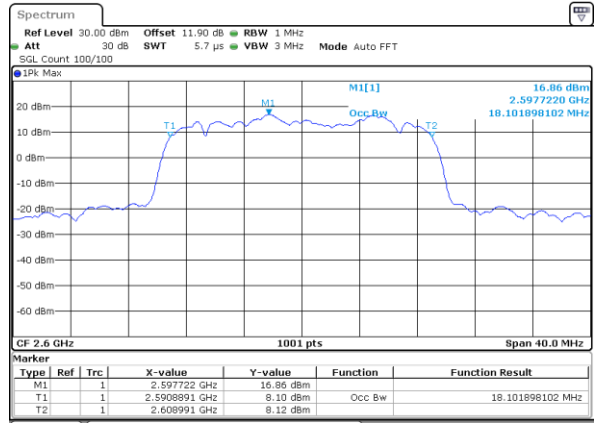
Date: 15 SEP 2017 20:55:52

Middle Channel / 20MHz / QPSK



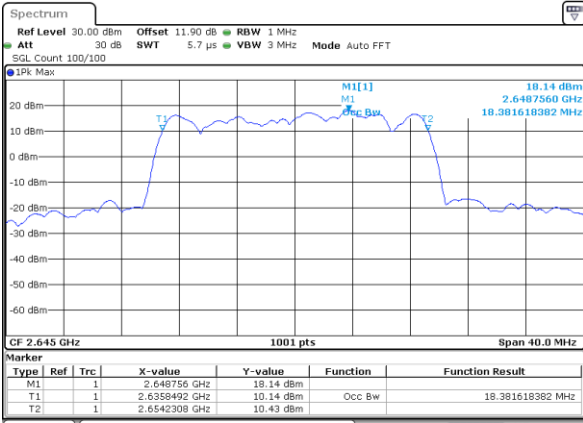
Date: 15 SEP 2017 20:56:22

Middle Channel / 20MHz / 16QAM



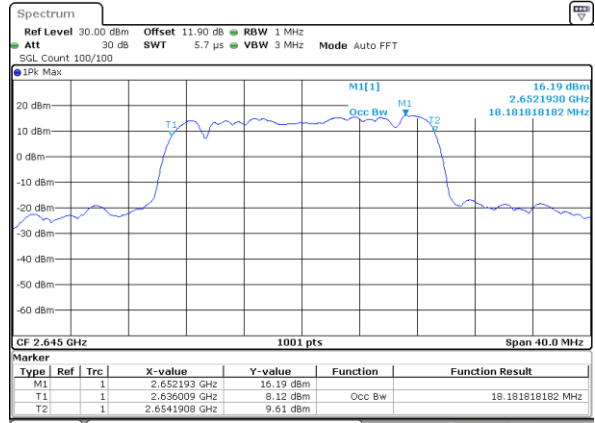
Date: 15 SEP 2017 20:56:32

Highest Channel / 20MHz / QPSK



Date: 15 SEP 2017 20:57:02

Highest Channel / 20MHz / 16QAM

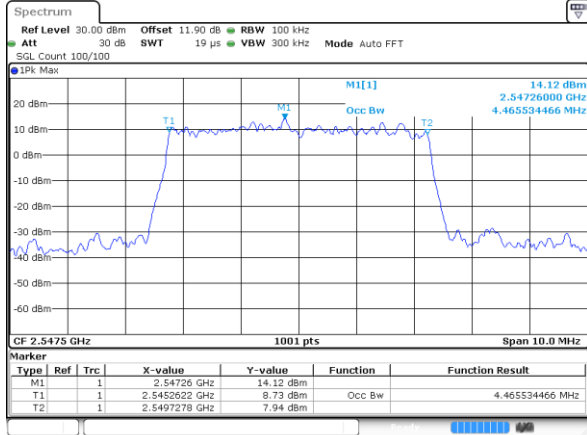


Date: 15 SEP 2017 20:57:12



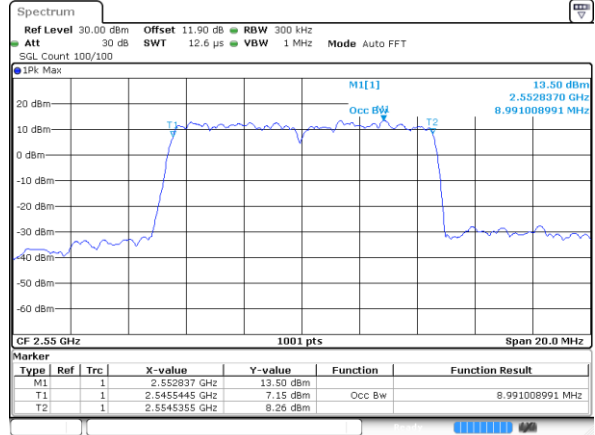
LTE Band 41

Lowest Channel / 5MHz / 64QAM



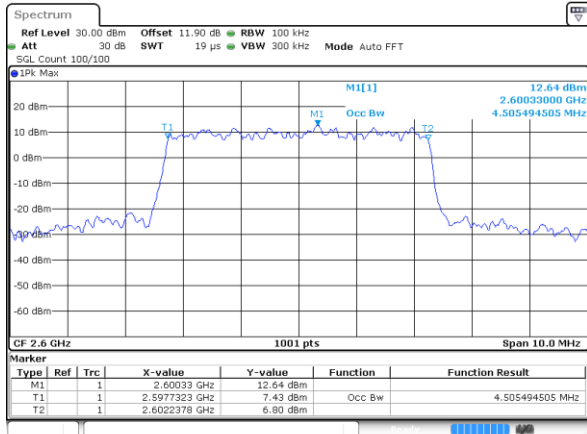
Date: 29 SEP 2017 13:55:56

Lowest Channel / 10MHz / 64QAM



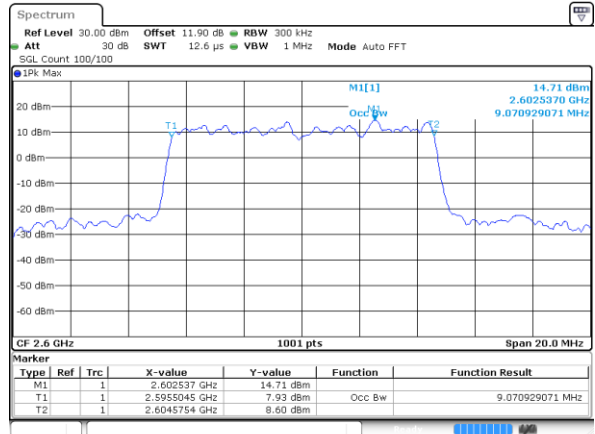
Date: 29 SEP 2017 13:57:02

Middle Channel / 5MHz / 64QAM



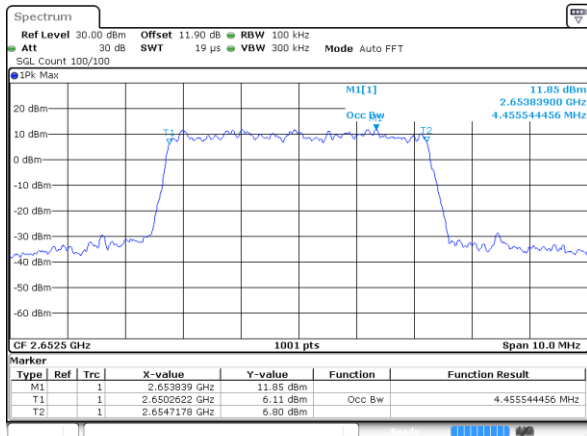
Date: 29 SEP 2017 13:56:18

Middle Channel / 10MHz / 64QAM



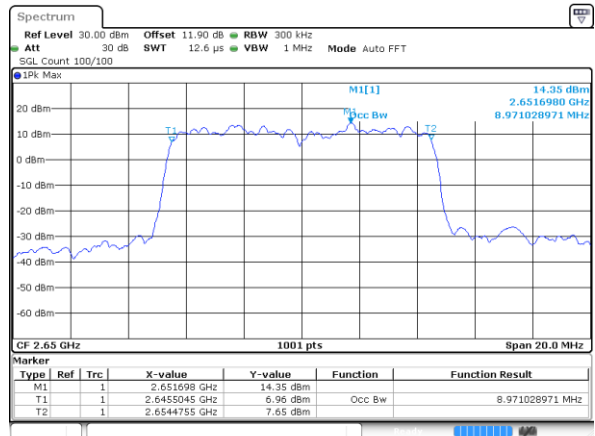
Date: 29 SEP 2017 13:57:23

Highest Channel / 5MHz / 64QAM



Date: 29 SEP 2017 13:56:40

Highest Channel / 10MHz / 64QAM

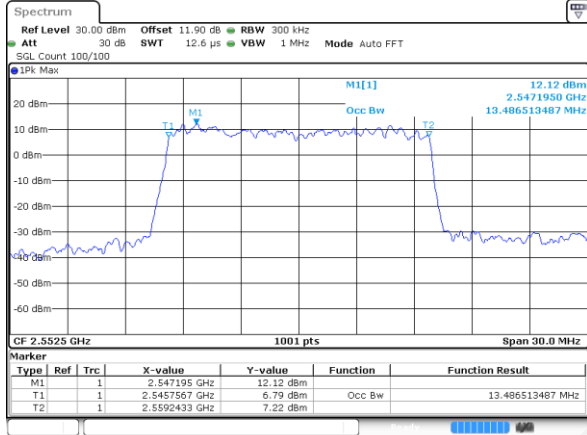


Date: 29 SEP 2017 13:57:44



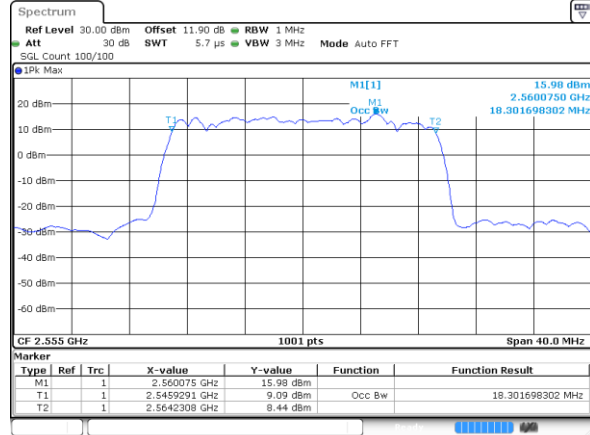
LTE Band 41

Lowest Channel / 15MHz / 64QAM



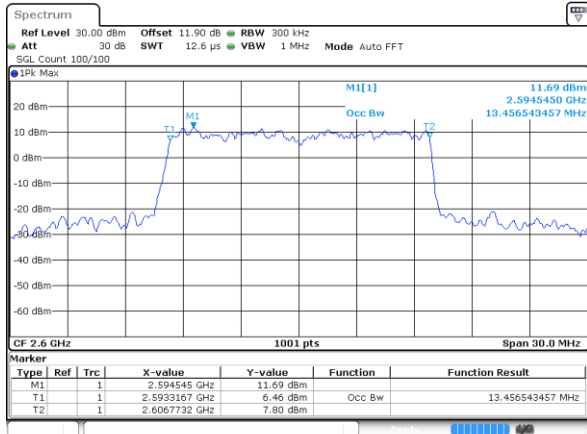
Date: 29 SEP 2017 13:58:06

Lowest Channel / 20MHz / 64QAM



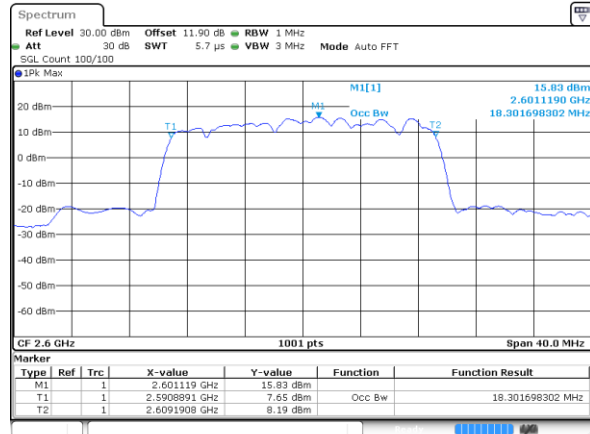
Date: 29 SEP 2017 13:59:10

Middle Channel / 15MHz / 64QAM



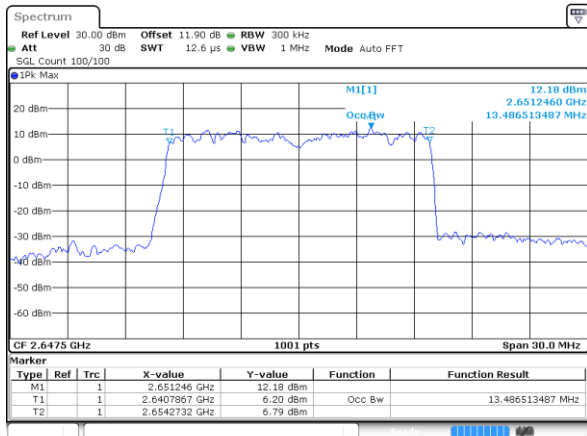
Date: 29 SEP 2017 13:58:27

Middle Channel / 20MHz / 64QAM



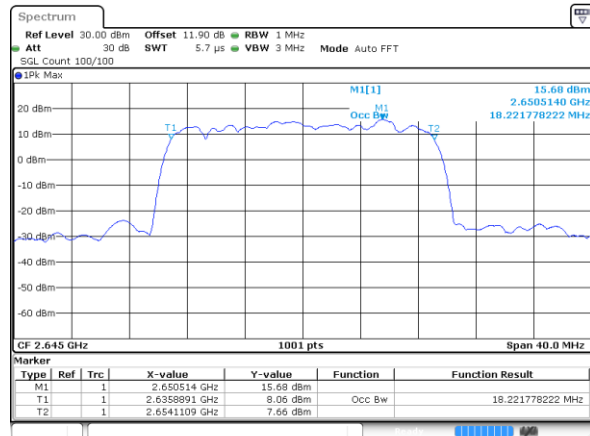
Date: 29 SEP 2017 13:59:32

Highest Channel / 15MHz / 64QAM



Date: 29 SEP 2017 13:58:49

Highest Channel / 20MHz / 64QAM



Date: 29 SEP 2017 13:59:53



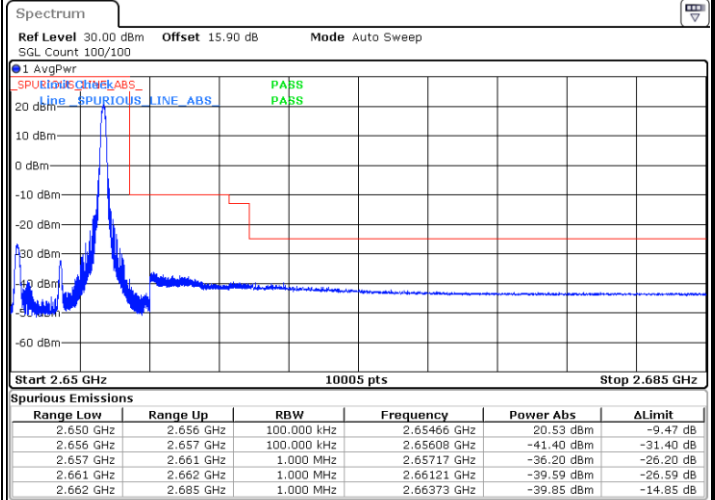
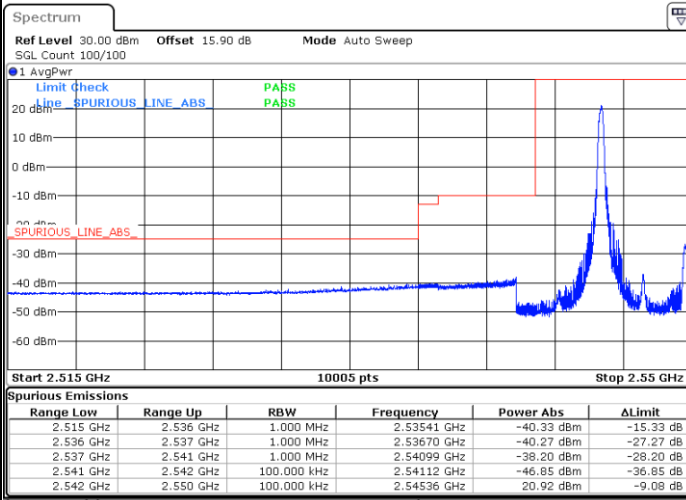
## Conducted Band Edge



LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

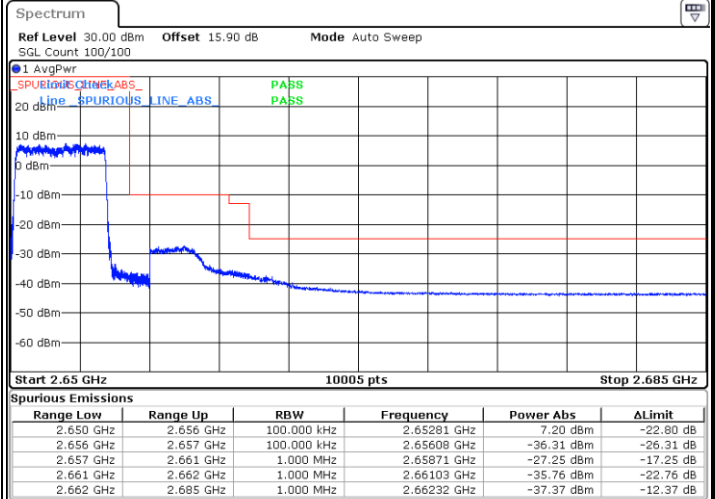
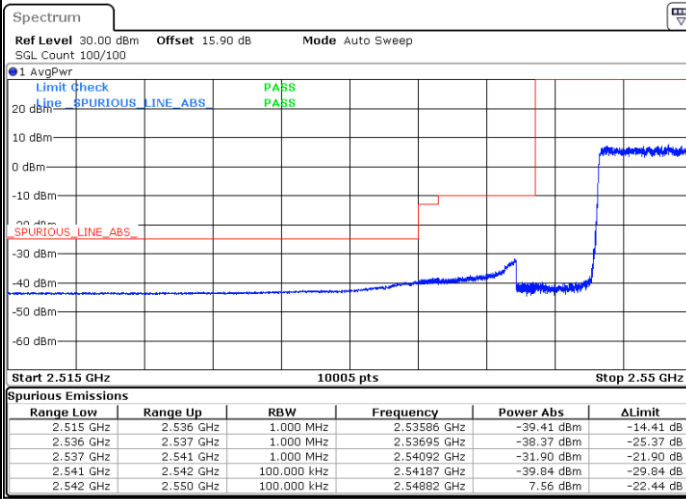


Date: 29 SEP 2017 15:43:59

Date: 29 SEP 2017 15:52:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



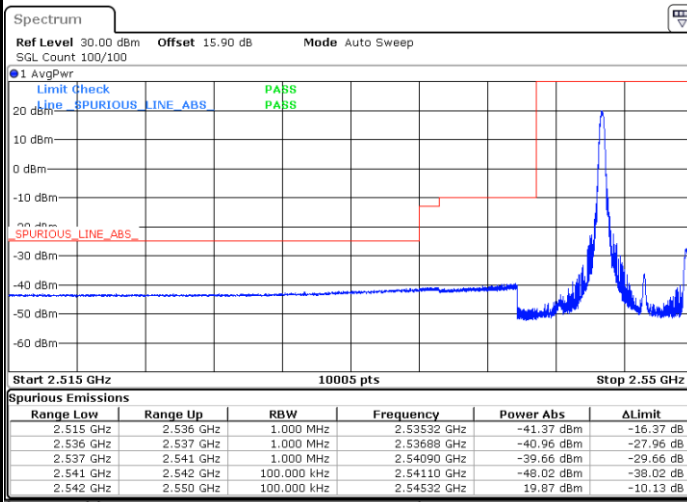
Date: 29 SEP 2017 15:46:16

Date: 29 SEP 2017 15:54:29



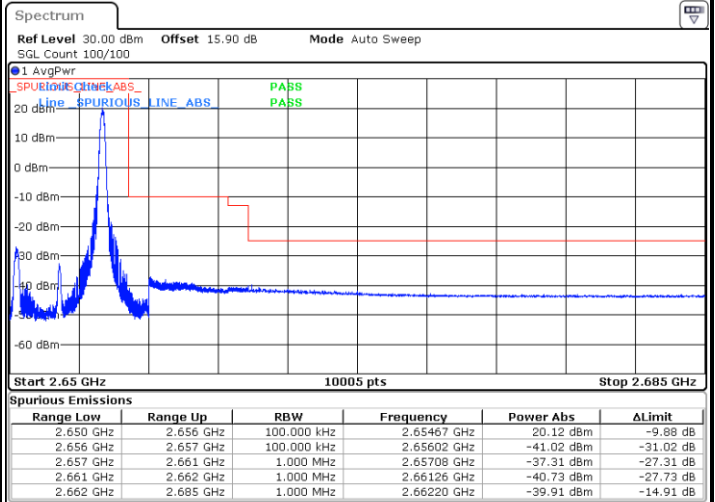
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



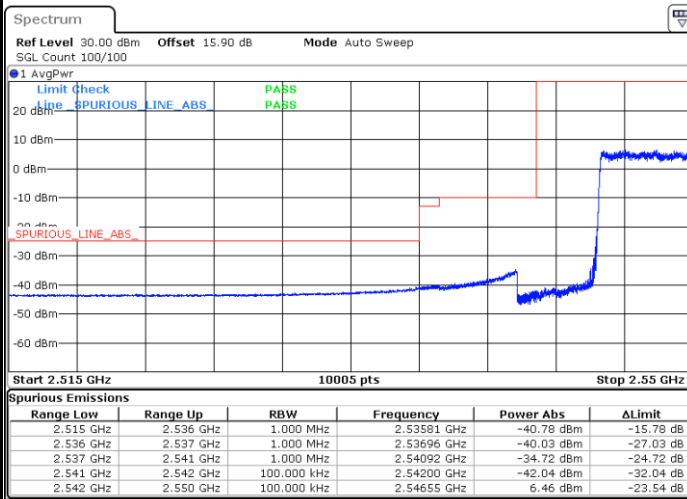
Date: 29 SEP 2017 15:45:07

Highest Band Edge / 1 RB



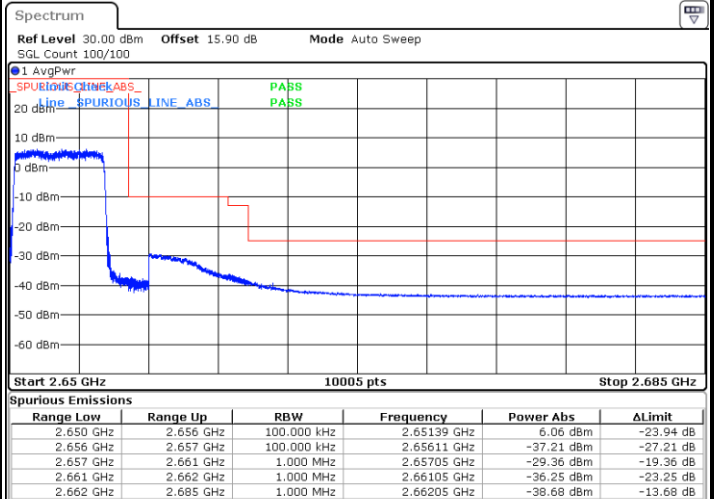
Date: 29 SEP 2017 15:53:21

Lowest Band Edge / Full RB



Date: 29 SEP 2017 15:47:24

Highest Band Edge / Full RB

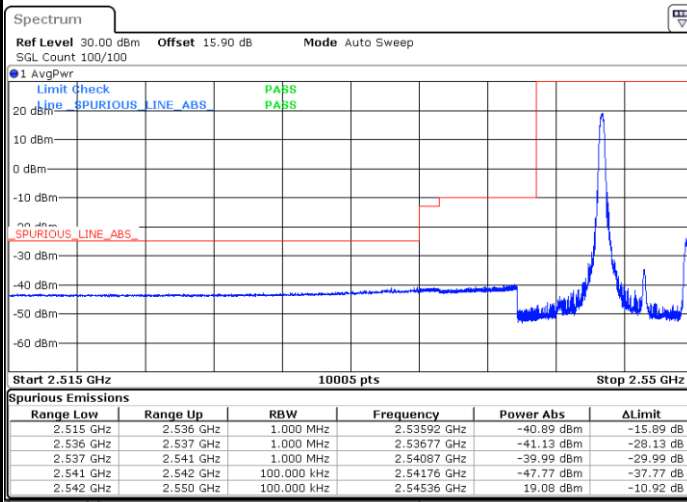


Date: 29 SEP 2017 15:55:37



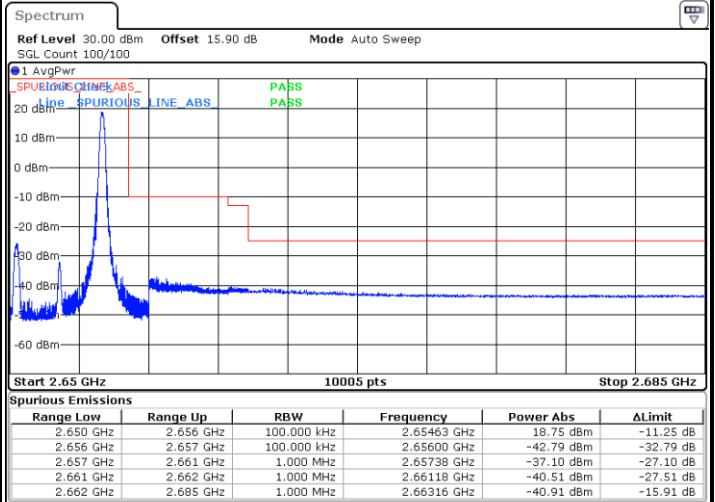
LTE Band 41 / 5MHz / 674QAM

Lowest Band Edge / 1RB



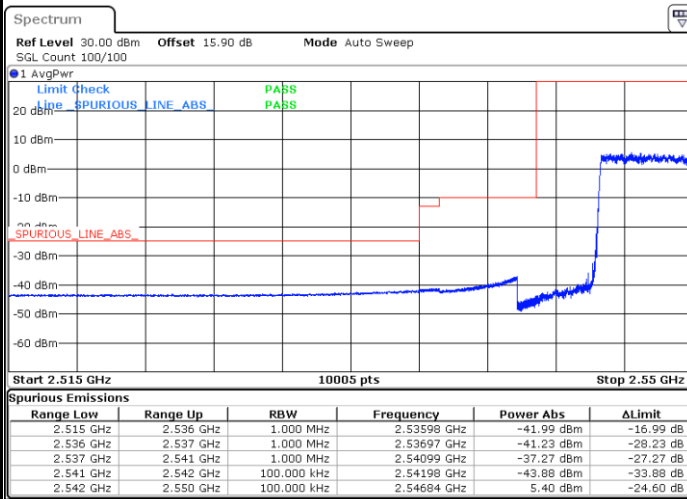
Date: 29 SEP 2017 14:24:46

Highest Band Edge / 1 RB



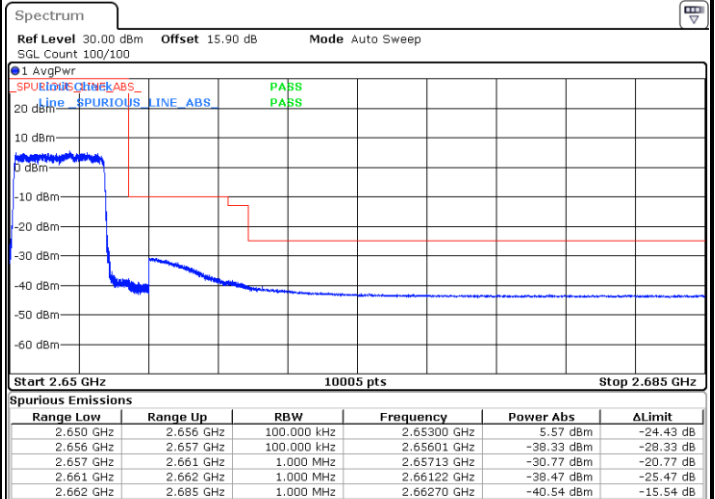
Date: 29 SEP 2017 14:28:53

Lowest Band Edge / Full RB



Date: 29 SEP 2017 14:25:55

Highest Band Edge / Full RB



Date: 29 SEP 2017 14:30:01

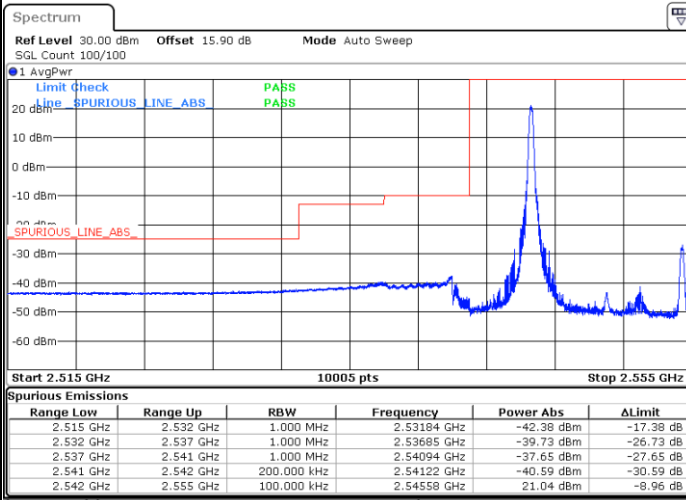




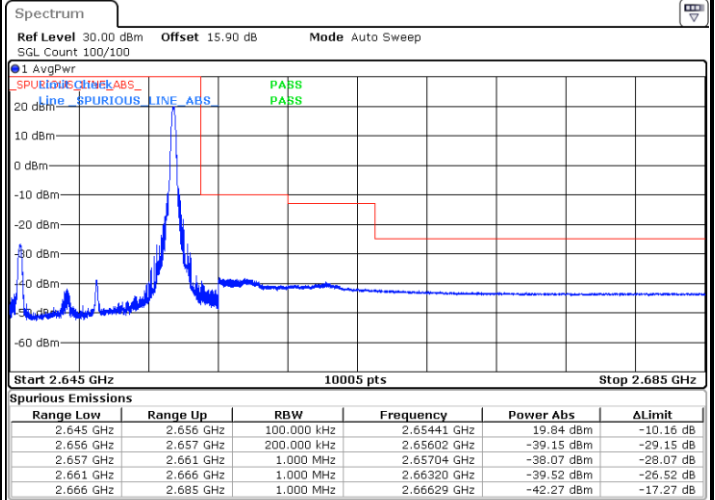
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



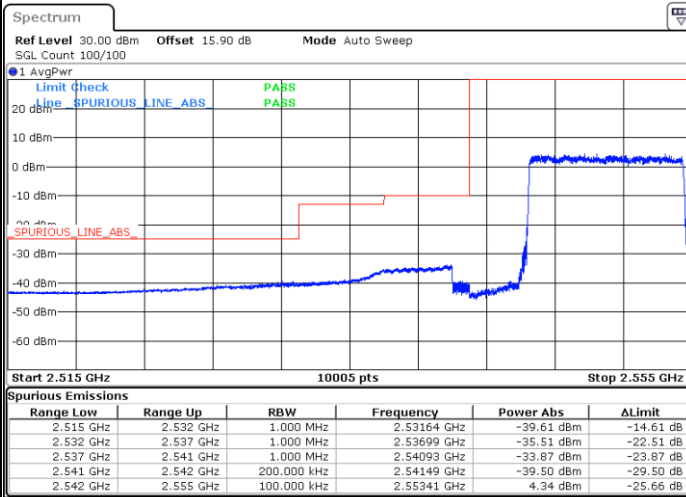
Date: 29 SEP 2017 15:58:36



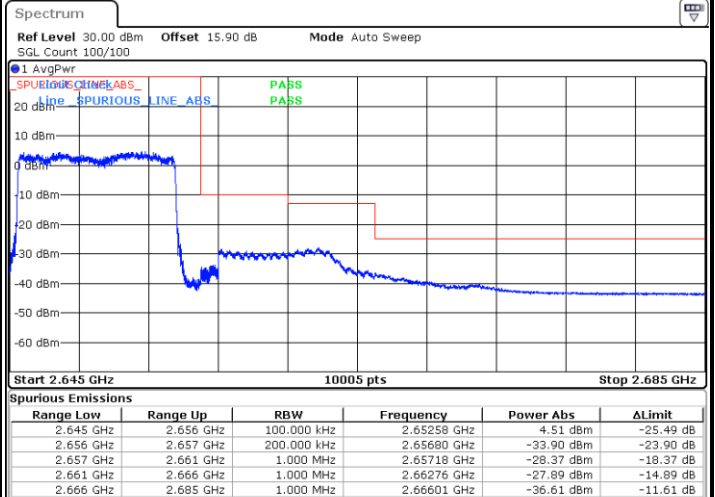
Date: 29 SEP 2017 16:06:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29 SEP 2017 16:00:53

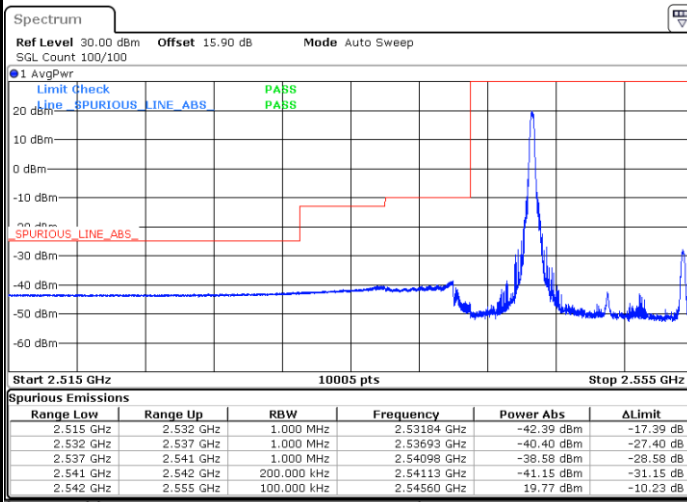


Date: 29 SEP 2017 16:09:06



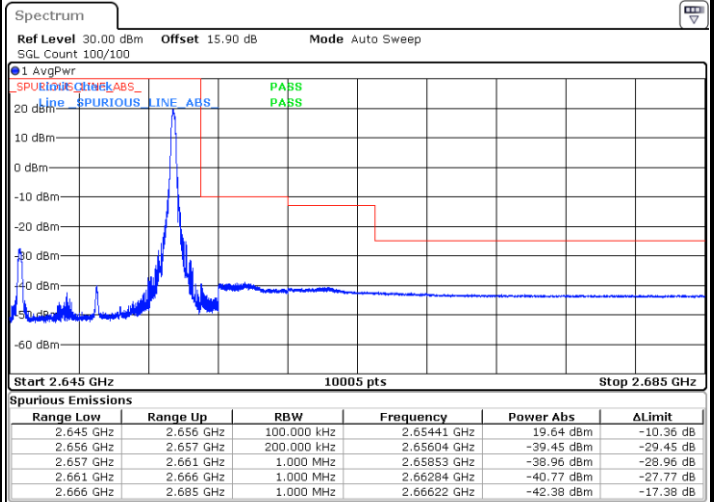
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



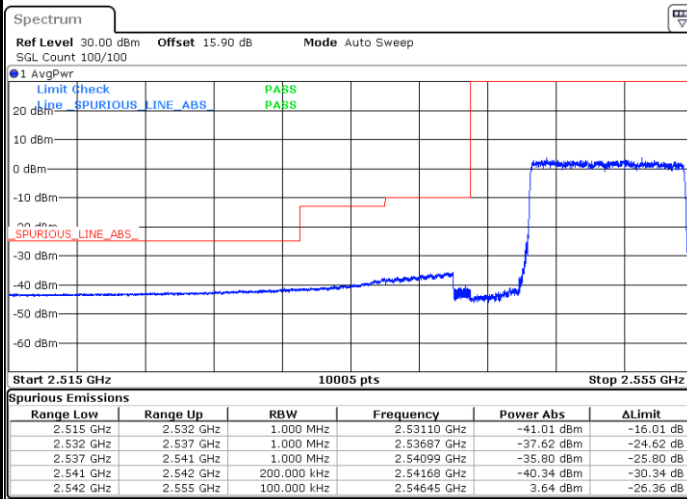
Date: 29 SEP 2017 15:59:44

Highest Band Edge / 1 RB



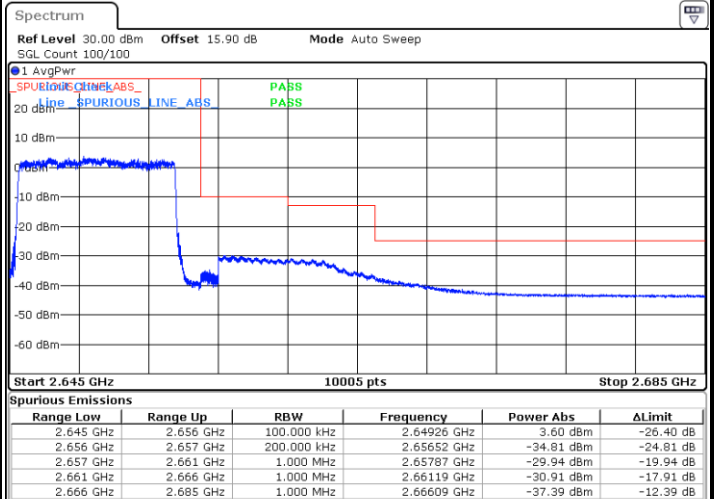
Date: 29 SEP 2017 16:07:58

Lowest Band Edge / Full RB



Date: 29 SEP 2017 16:02:01

Highest Band Edge / Full RB

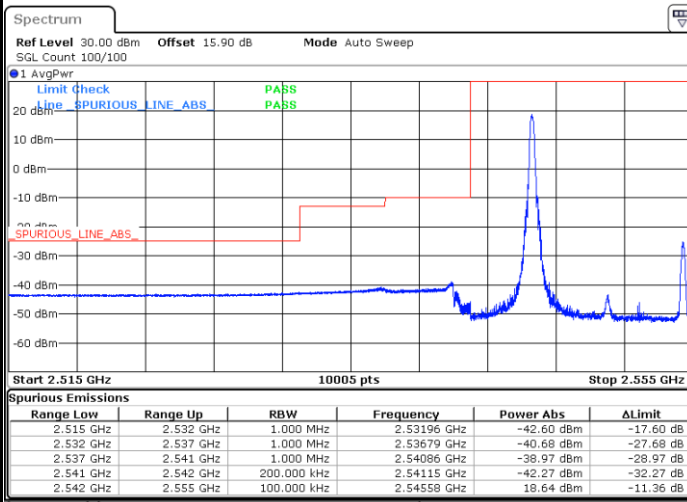


Date: 29 SEP 2017 16:10:14



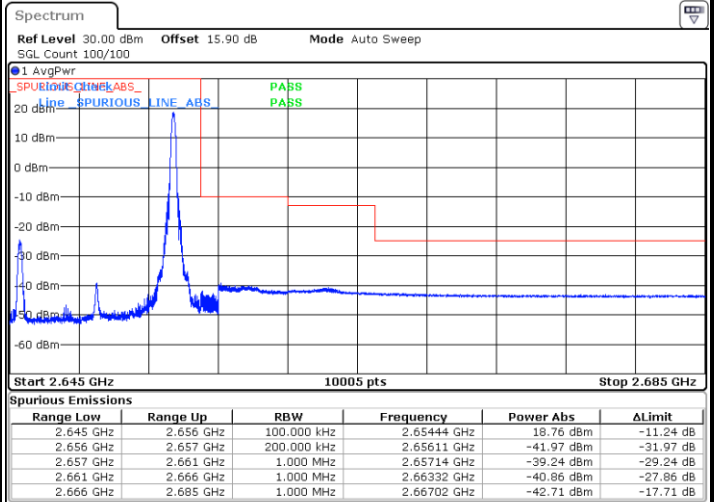
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



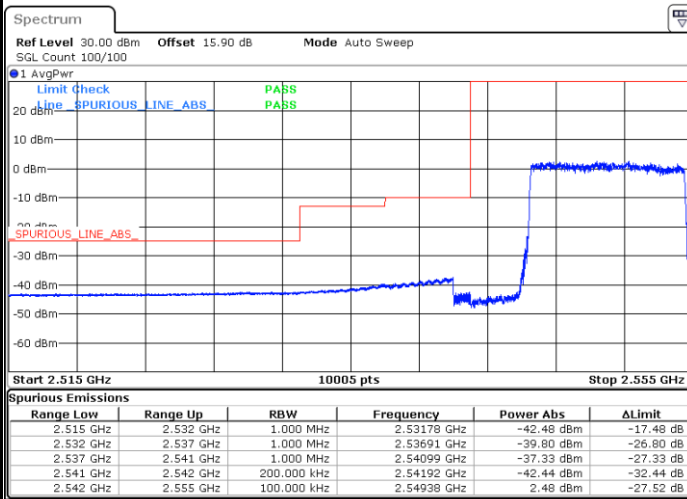
Date: 29 SEP 2017 14:32:05

Highest Band Edge / 1 RB



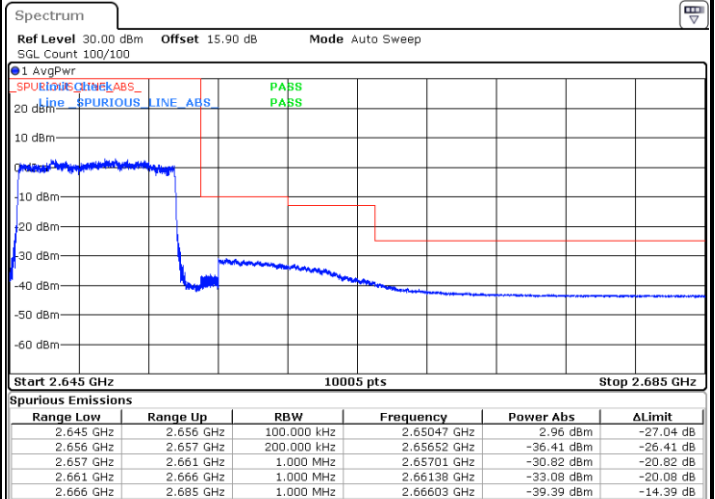
Date: 29 SEP 2017 14:36:12

Lowest Band Edge / Full RB



Date: 29 SEP 2017 14:33:13

Highest Band Edge / Full RB



Date: 29 SEP 2017 14:37:20