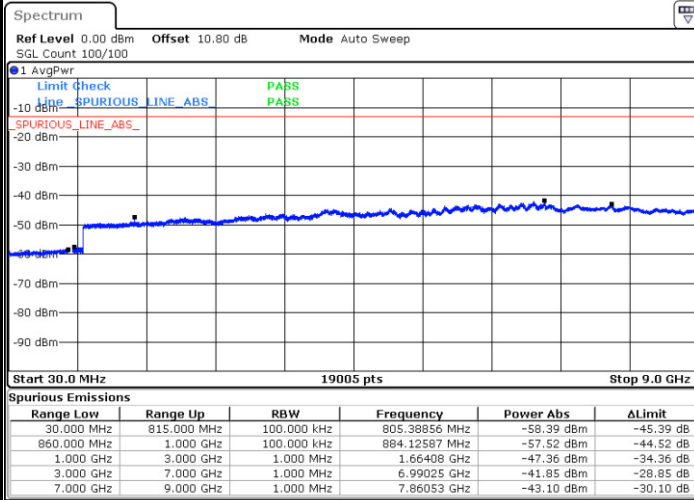




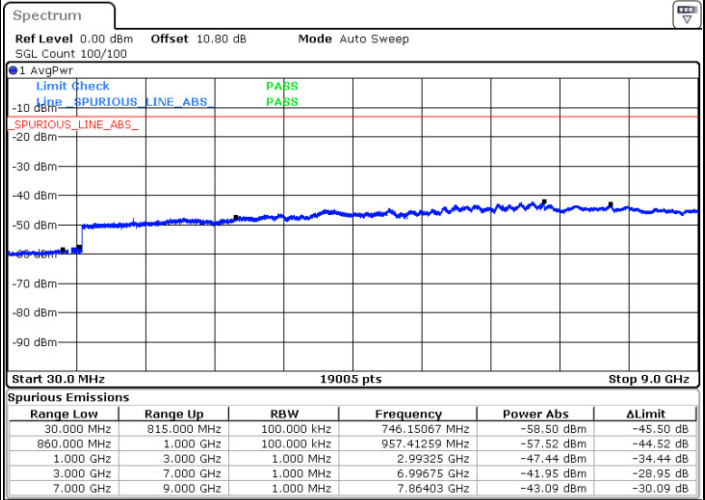
LTE Band 5 / 10MHz

Middle Channel / QPSK



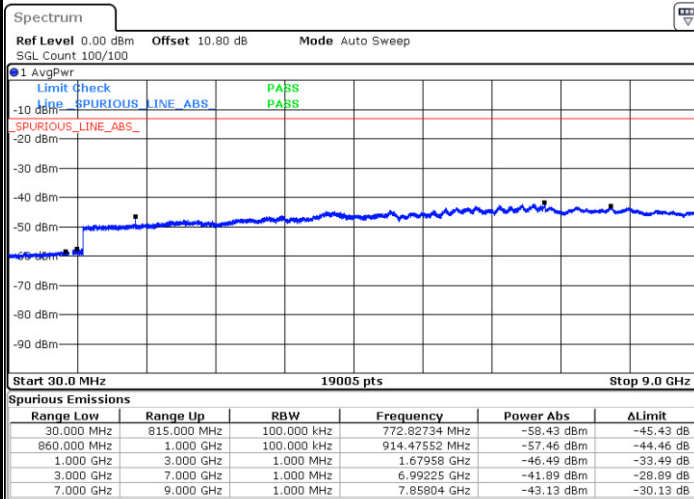
Date: 5 JAN 2018 20:00:33

Middle Channel / 16QAM



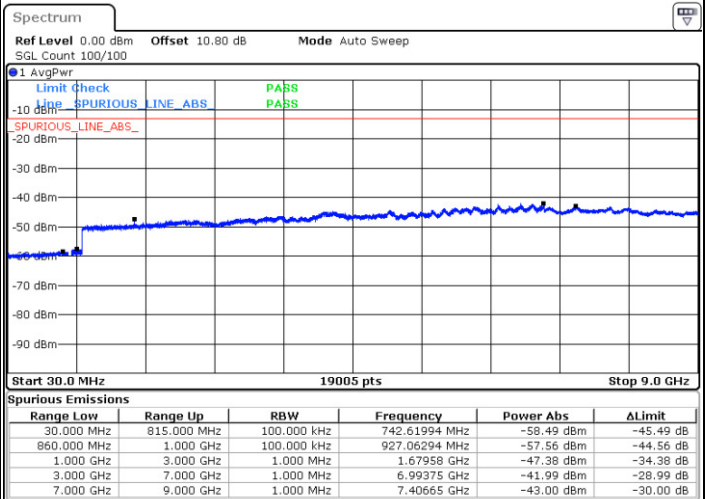
Date: 5 JAN 2018 20:01:26

Highest Channel / QPSK



Date: 5 JAN 2018 20:09:35

Highest Channel / 16QAM

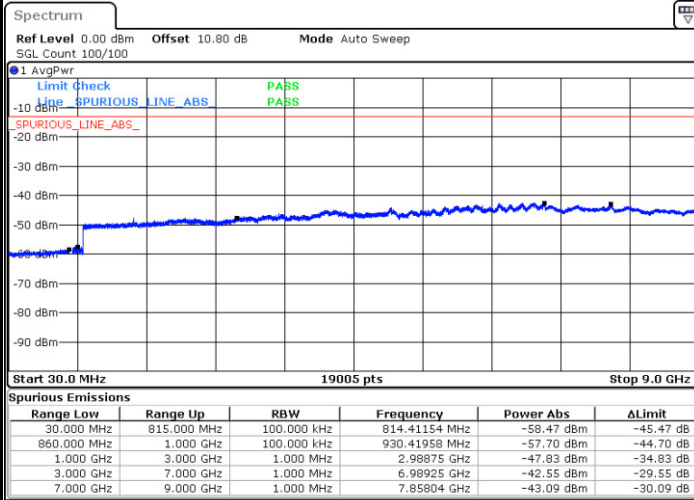


Date: 5 JAN 2018 20:10:29



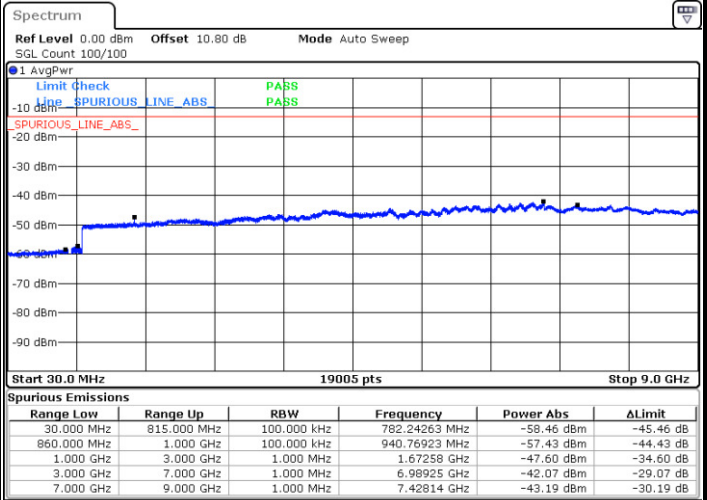
LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM



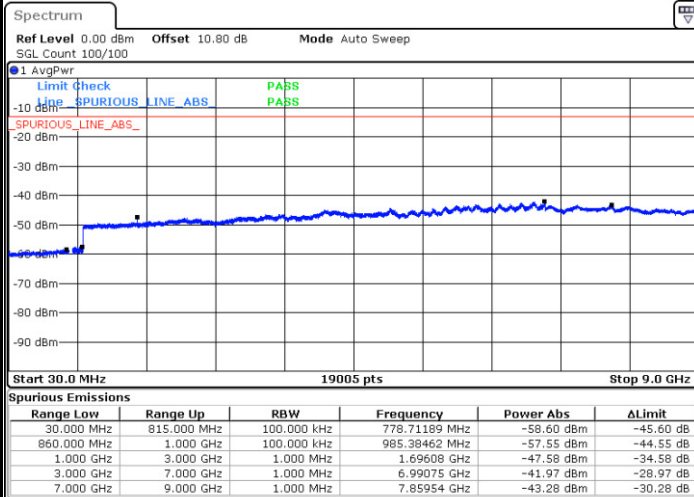
Date: 1.FEB.2018 00:50:26

Middle Channel / 64QAM



Date: 1.FEB.2018 00:51:40

Highest Channel / 64QAM

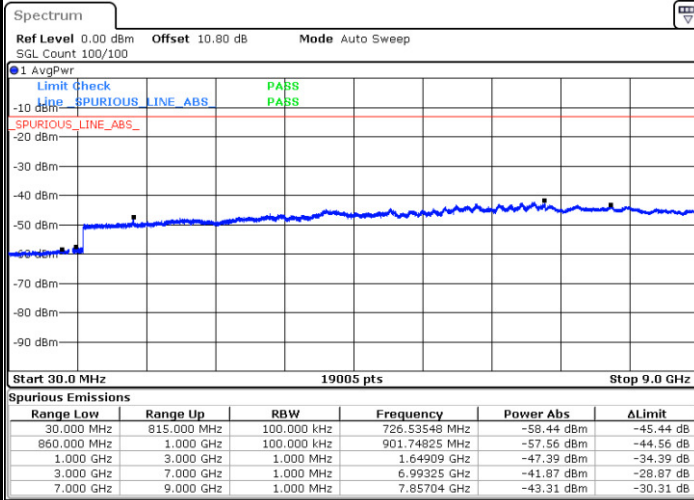


Date: 1.FEB.2018 00:56:11



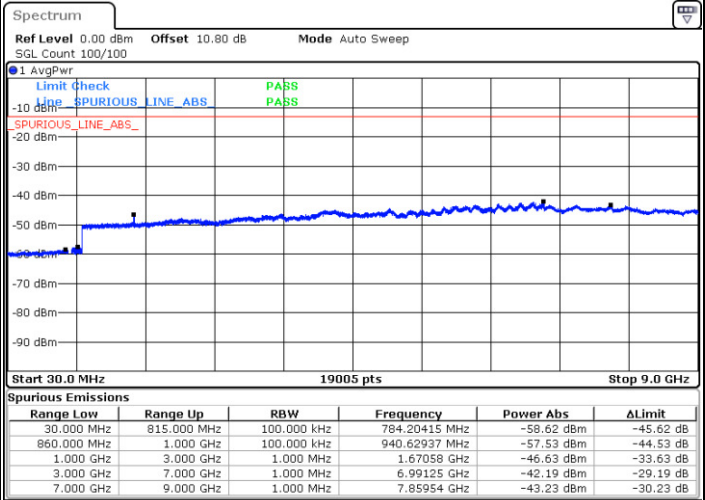
LTE Band 5 / 3MHz

Lowest Channel / 64QAM



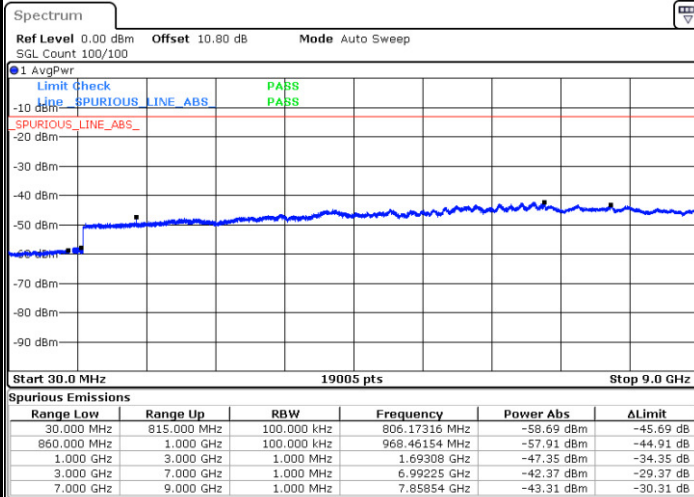
Date: 1.FEB.2018 00:19:37

Middle Channel / 64QAM



Date: 1.FEB.2018 00:20:51

Highest Channel / 64QAM

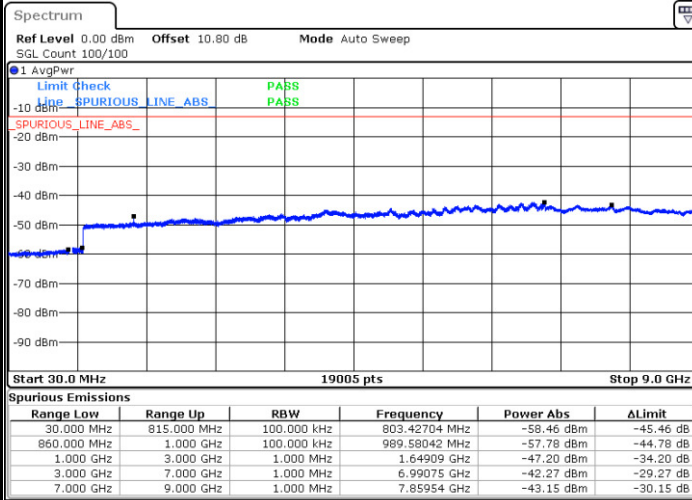


Date: 1.FEB.2018 00:25:22



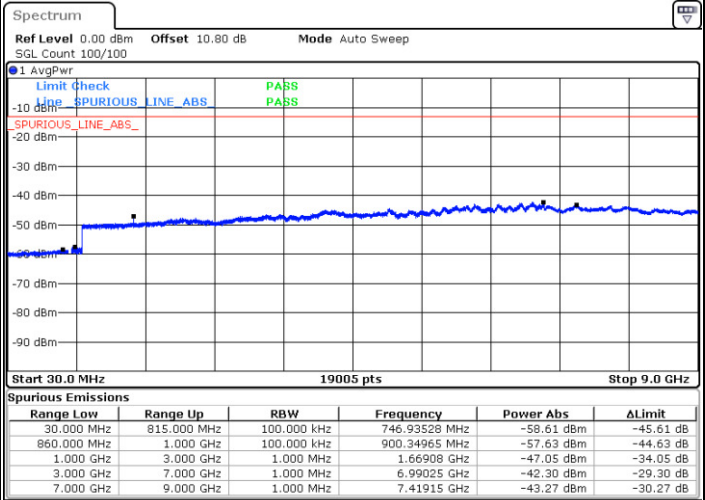
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



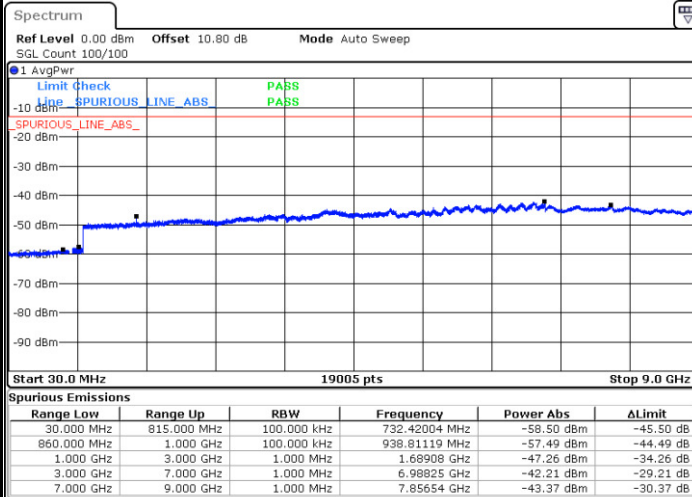
Date: 1.FEB.2018 00:29:54

Middle Channel / 64QAM



Date: 1.FEB.2018 00:31:07

Highest Channel / 64QAM

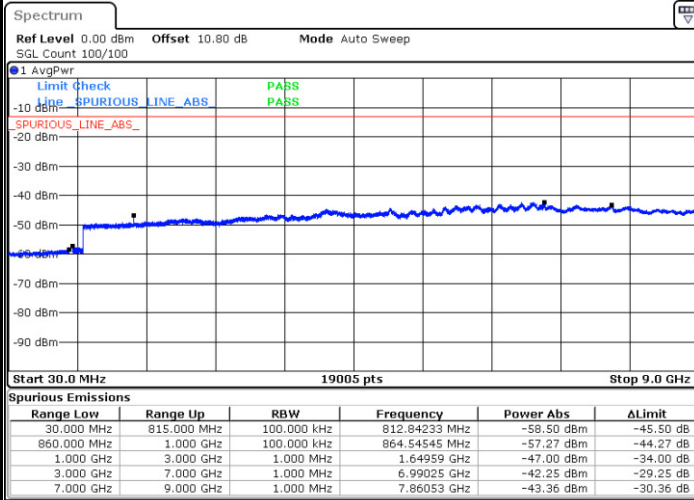


Date: 1.FEB.2018 00:35:39



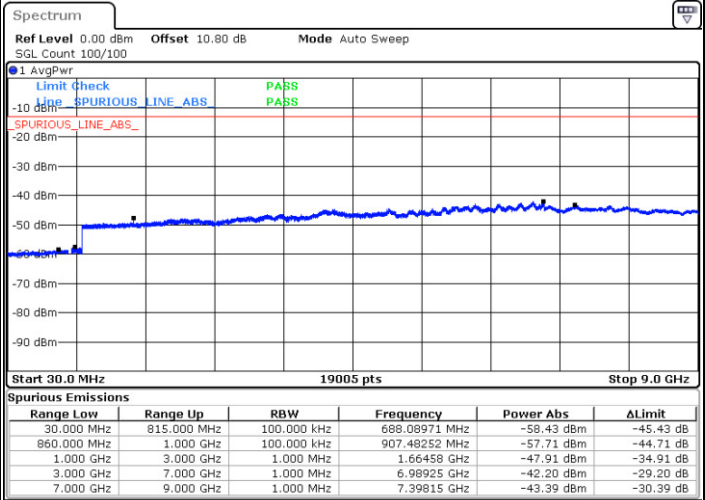
LTE Band 5 / 10MHz

Lowest Channel / 64QAM



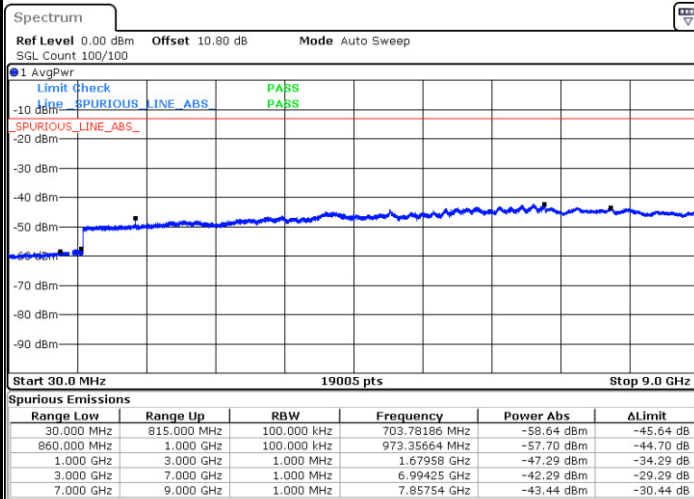
Date: 1.FEB.2018 00:40:10

Middle Channel / 64QAM



Date: 1.FEB.2018 00:41:24

Highest Channel / 64QAM



Date: 1.FEB.2018 00:45:55

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	0.0033	PASS
40	Normal Voltage	0.0057	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0041	
0	Normal Voltage	0.0063	
-10	Normal Voltage	0.0036	
-20	Normal Voltage	0.0030	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0049	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

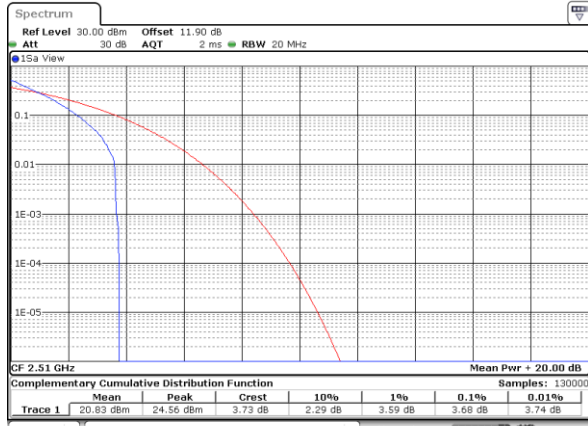
Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

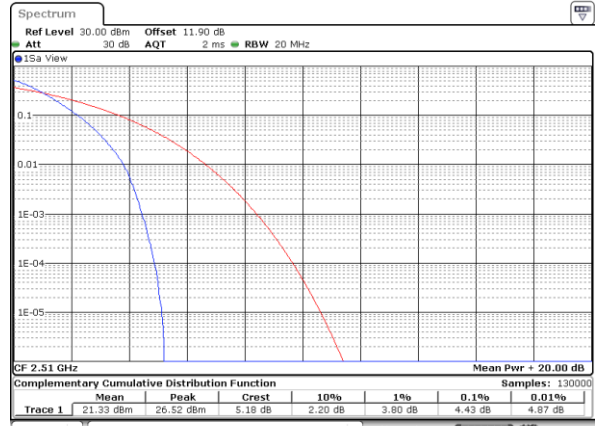
LTE Band 7

Peak-to-Average Ratio

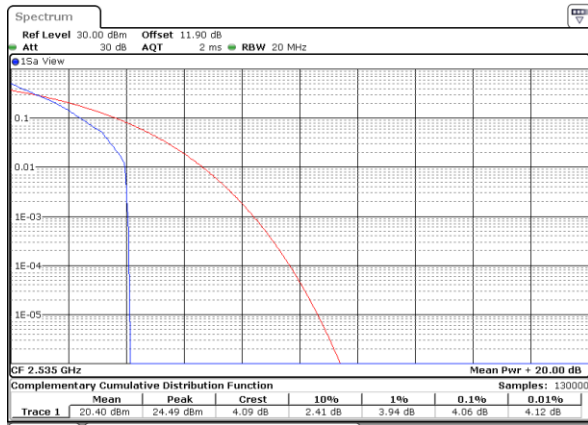
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.68	4.43	4.38	5.33	PASS
Middle CH	4.06	4.52	4.72	5.51	
Highest CH	3.91	4.52	4.93	5.51	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.54	6.00	-	-	PASS
Middle CH	5.83	6.20	-	-	
Highest CH	5.71	6.26	-	-	

LTE Band 7 / 20MHz / QPSK
Lowest Channel / 1RB


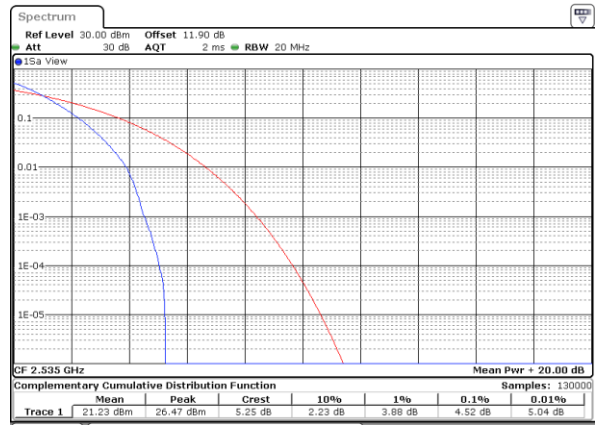
Date: 6 JAN 2018 23:30:00

Lowest Channel / Full RB


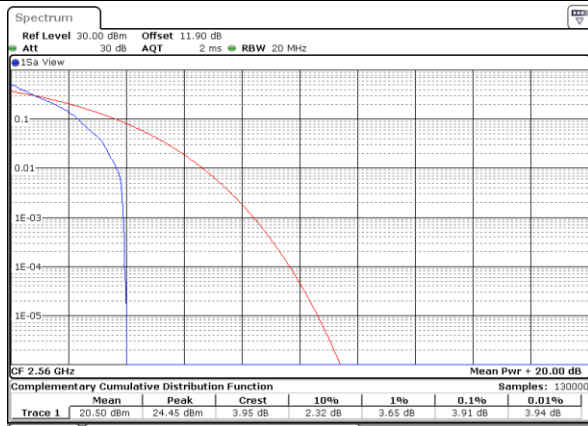
Date: 6 JAN 2018 23:33:12

Middle Channel / 1RB


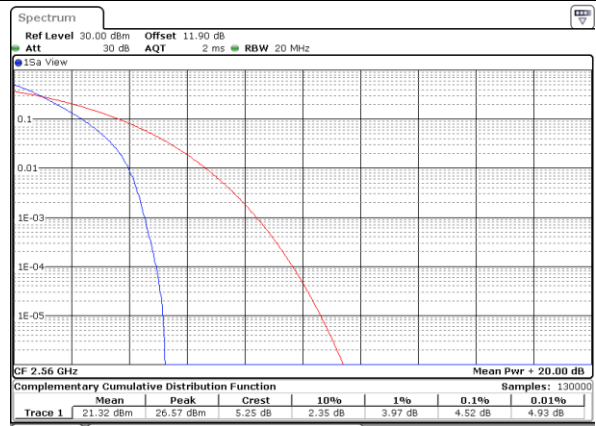
Date: 6 JAN 2018 23:34:21

Middle Channel / Full RB


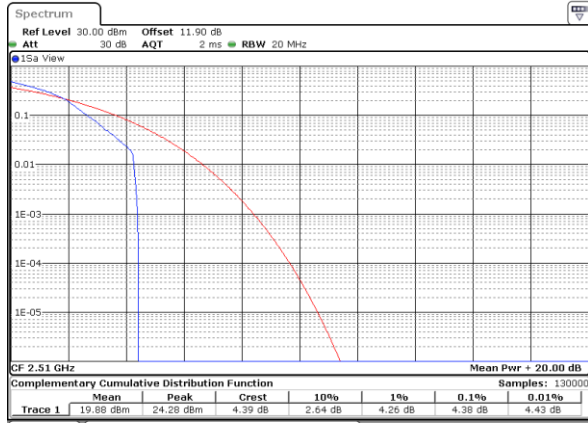
Date: 6 JAN 2018 23:34:30

Highest Channel / 1RB


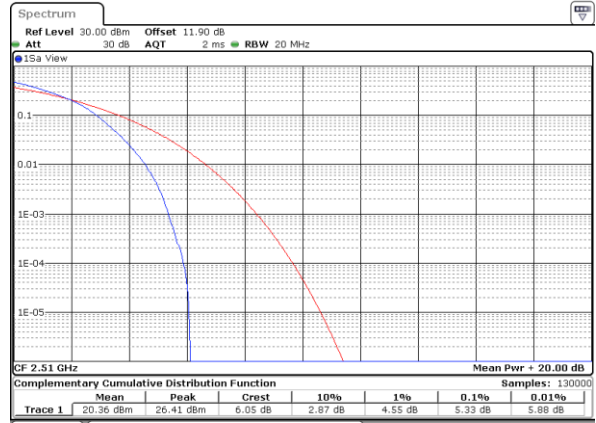
Date: 6 JAN 2018 23:34:39

Highest Channel / Full RB


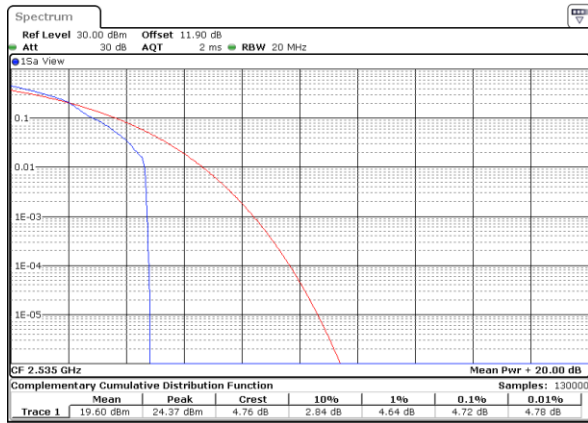
Date: 6 JAN 2018 23:34:49

LTE Band 7 / 20MHz / 16QAM
Lowest Channel / 1RB


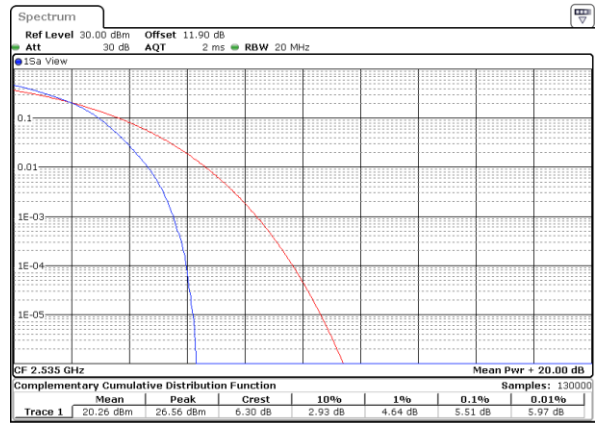
Date: 6 JAN 2018 23:22:54

Lowest Channel / Full RB


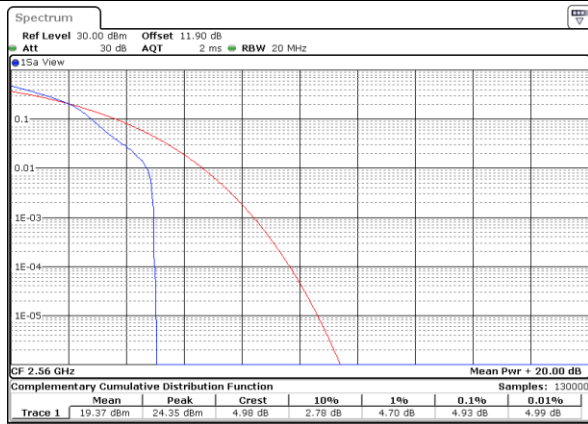
Date: 6 JAN 2018 23:23:18

Middle Channel / 1RB


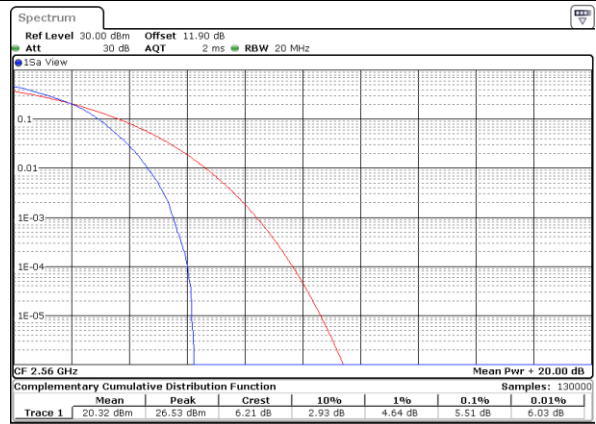
Date: 6 JAN 2018 23:27:08

Middle Channel / Full RB


Date: 6 JAN 2018 23:27:17

Highest Channel / 1RB


Date: 6 JAN 2018 23:29:40

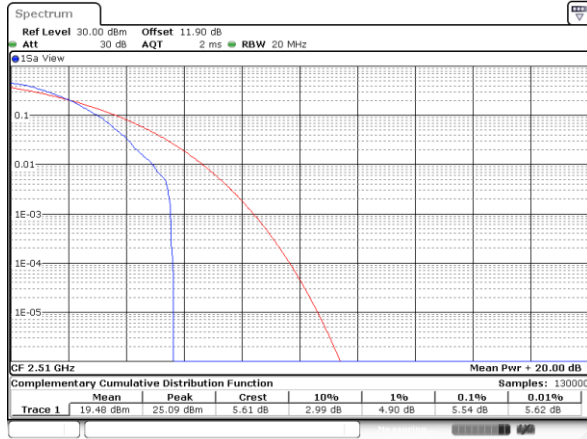
Highest Channel / Full RB


Date: 6 JAN 2018 23:29:50



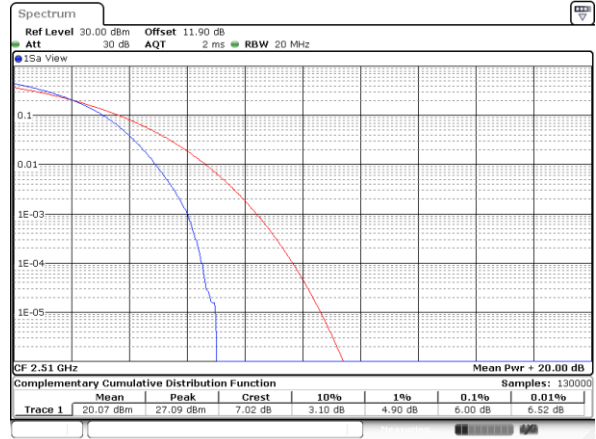
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



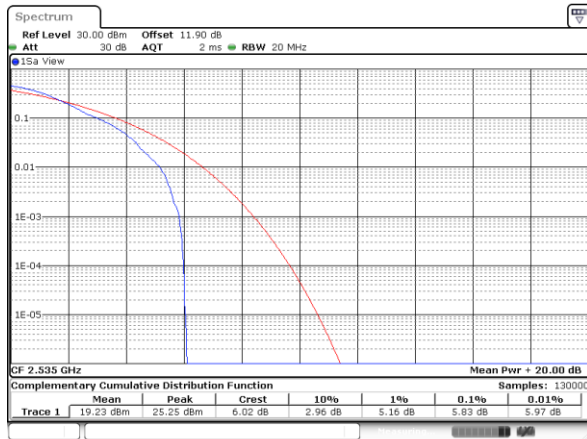
Date: 1 FEB 2018 23:17:43

Lowest Channel / Full RB



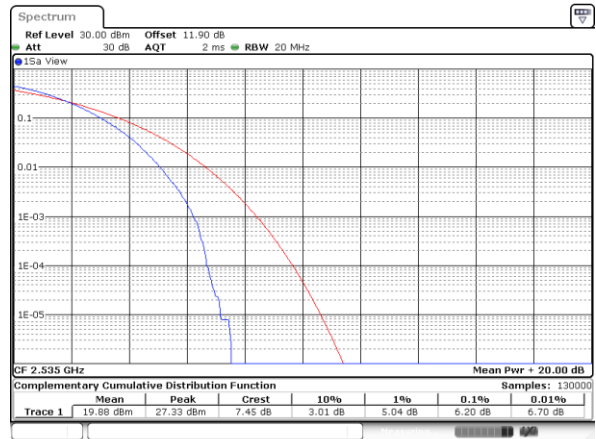
Date: 1 FEB 2018 23:24:02

Middle Channel / 1RB



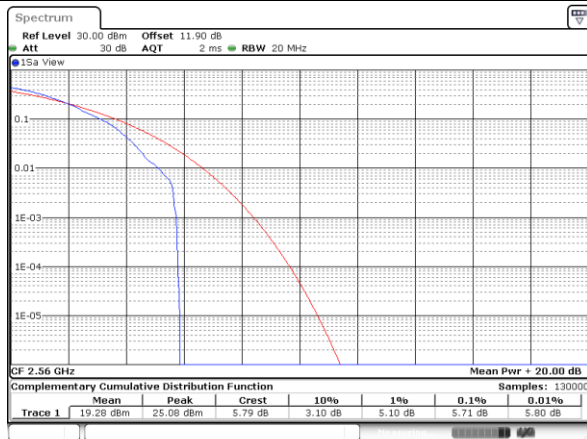
Date: 1 FEB 2018 23:25:14

Middle Channel / Full RB



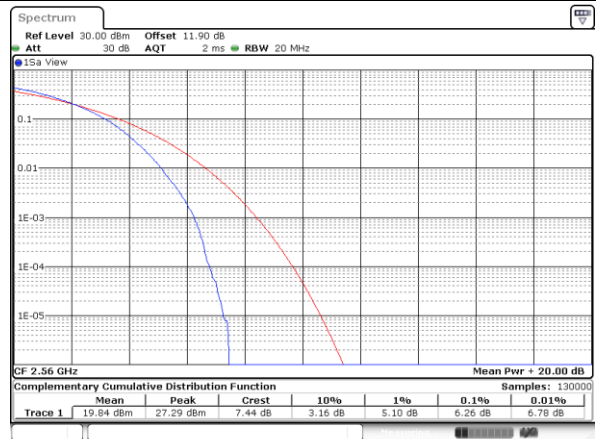
Date: 1 FEB 2018 23:26:50

Highest Channel / 1RB



Date: 1 FEB 2018 23:30:03

Highest Channel / Full RB



Date: 1 FEB 2018 23:30:16

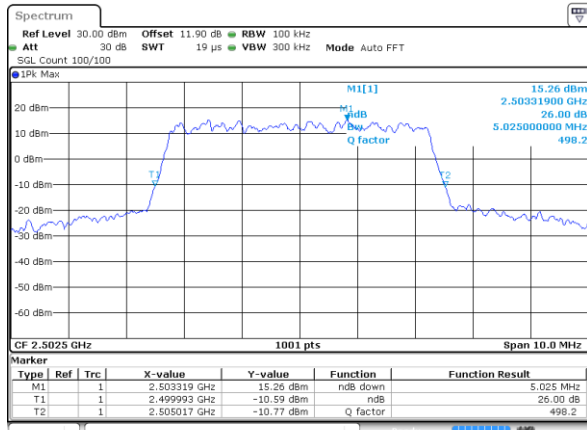
**26dB Bandwidth**

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	-	-	-	-	5.03	4.86	9.79	9.77	14.18	14.51	20.34	20.10
Middle CH	-	-	-	-	4.99	4.82	9.77	9.63	14.27	14.69	20.22	20.14
Highest CH	-	-	-	-	4.97	4.91	9.73	9.73	14.69	14.24	20.14	20.30
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.87	-	9.87	-	14.48	-	20.18	-
Middle CH	-	-	-	-	4.90	-	10.07	-	14.51	-	20.14	-
Highest CH	-	-	-	-	4.90	-	9.81	-	14.18	-	20.22	-



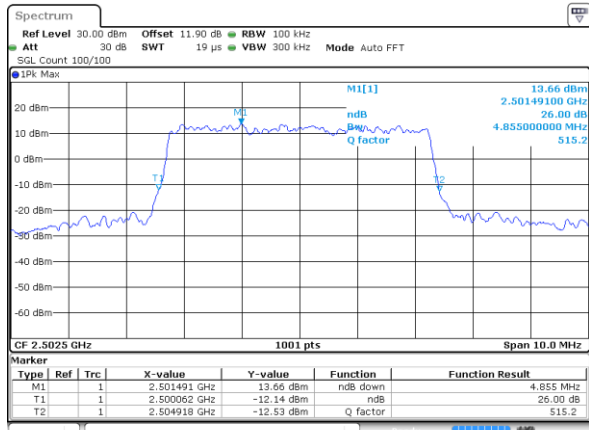
LTE Band 7

Lowest Channel / 5MHz / QPSK



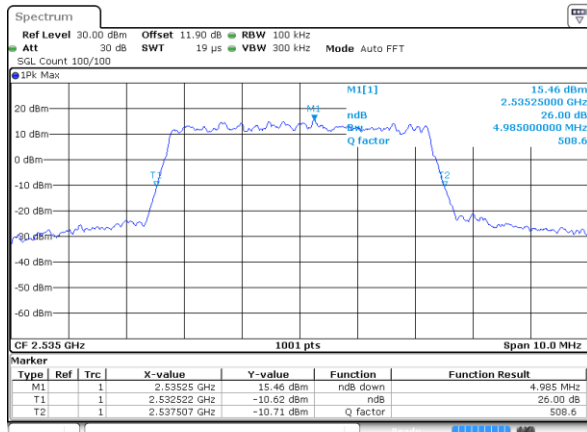
Date: 6 JAN 2018 22:06:27

Lowest Channel / 5MHz / 16QAM



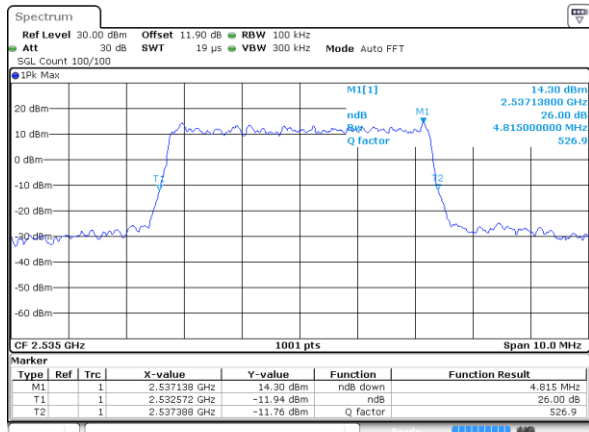
Date: 6 JAN 2018 22:06:37

Middle Channel / 5MHz / QPSK



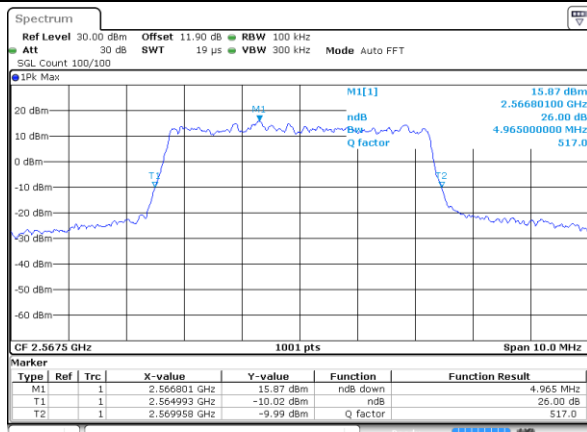
Date: 6 JAN 2018 23:37:32

Middle Channel / 5MHz / 16QAM



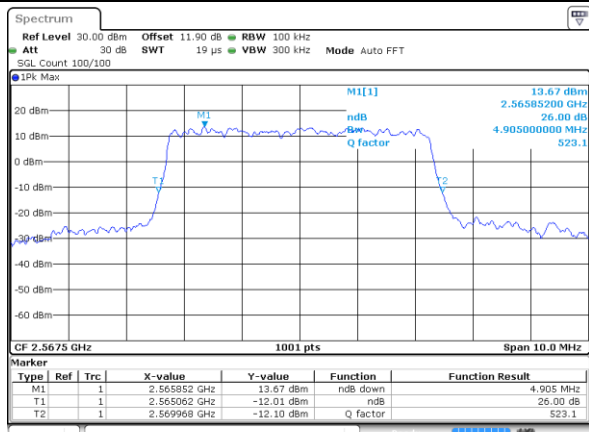
Date: 6 JAN 2018 22:14:12

Highest Channel / 5MHz / QPSK

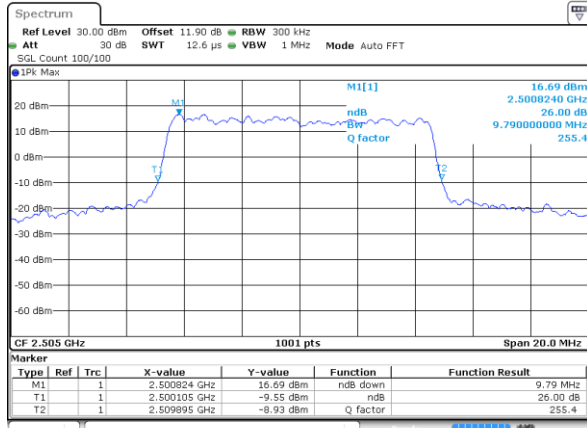


Date: 6 JAN 2018 22:16:35

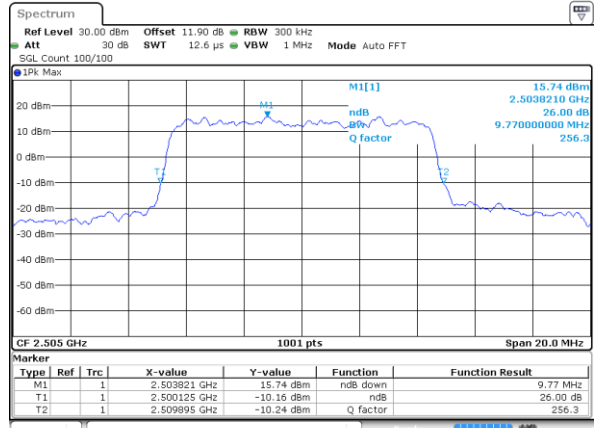
Highest Channel / 5MHz / 16QAM



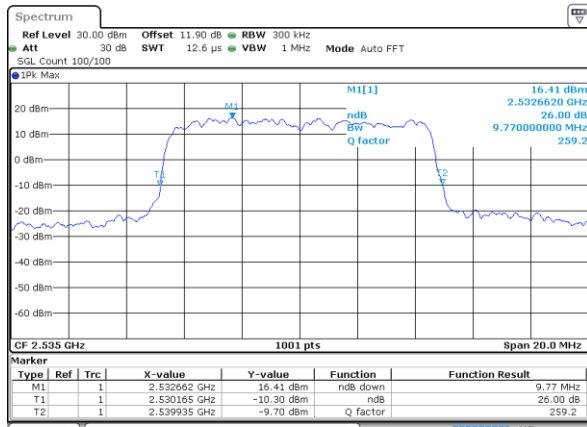
Date: 6 JAN 2018 22:16:45

LTE Band 7
Lowest Channel / 10MHz / QPSK


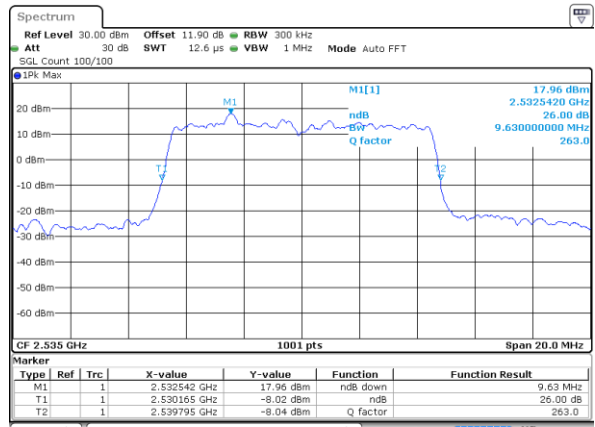
Date: 6 JAN 2018 23:38:54

Lowest Channel / 10MHz / 16QAM


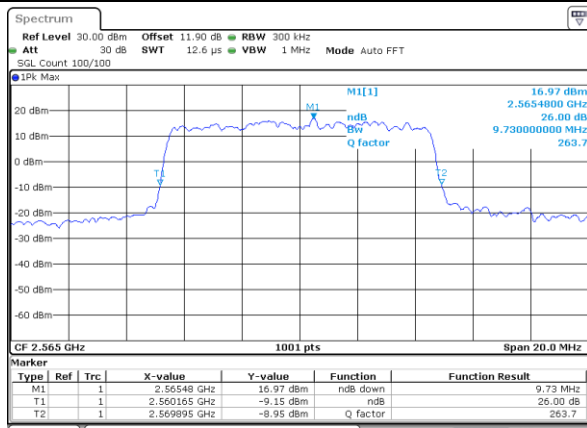
Date: 6 JAN 2018 22:24:08

Middle Channel / 10MHz / QPSK


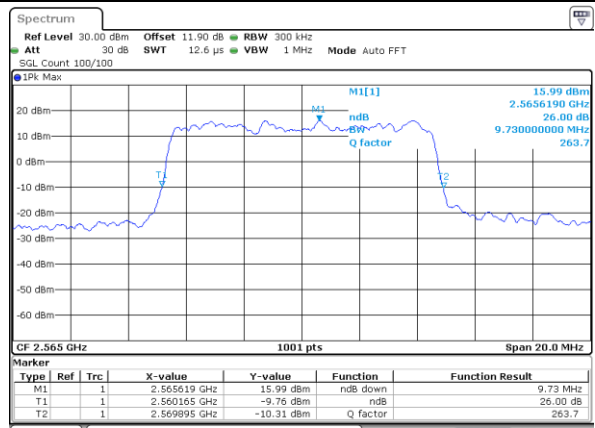
Date: 6 JAN 2018 22:31:25

Middle Channel / 10MHz / 16QAM


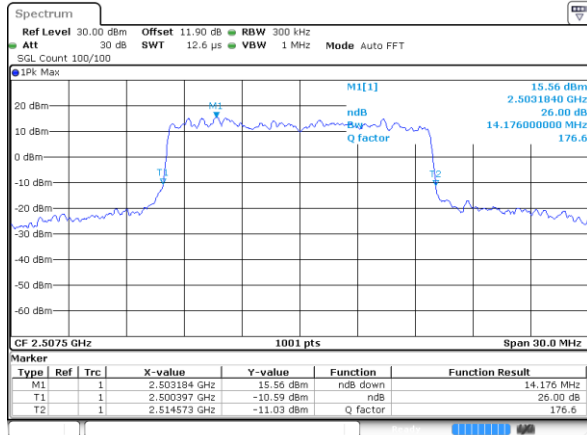
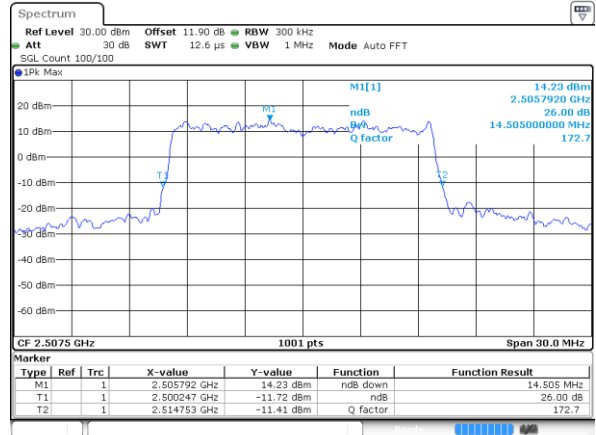
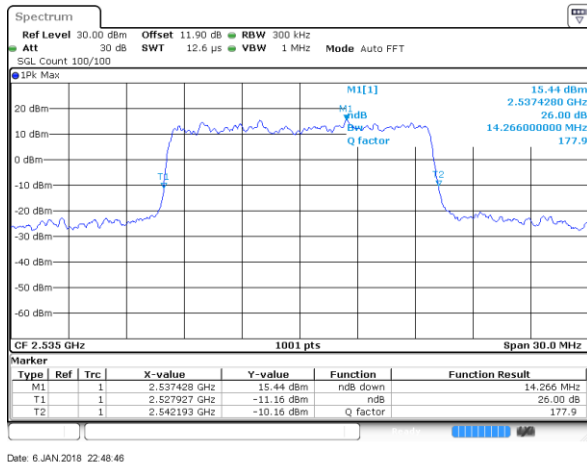
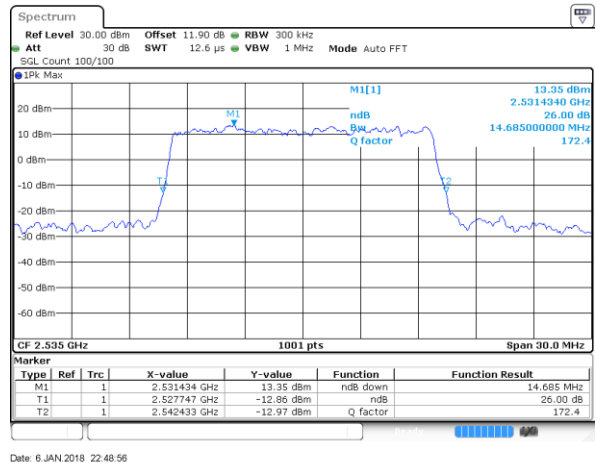
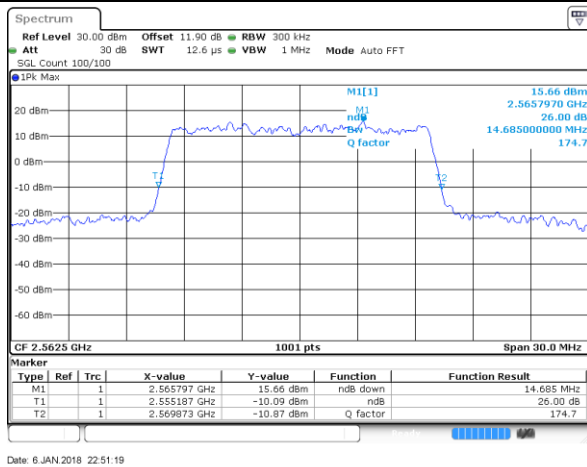
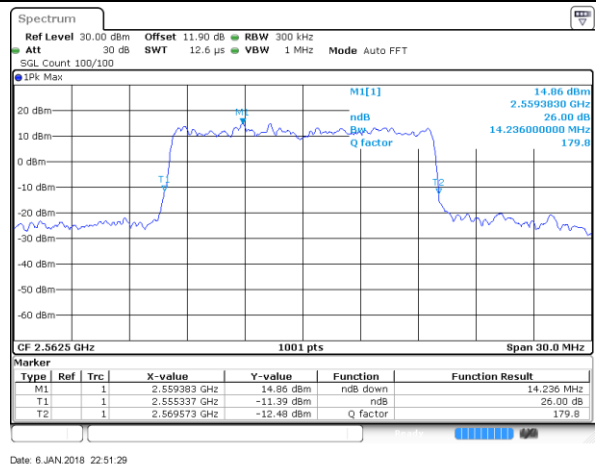
Date: 6 JAN 2018 22:31:35

Highest Channel / 10MHz / QPSK


Date: 6 JAN 2018 22:33:58

Highest Channel / 10MHz / 16QAM


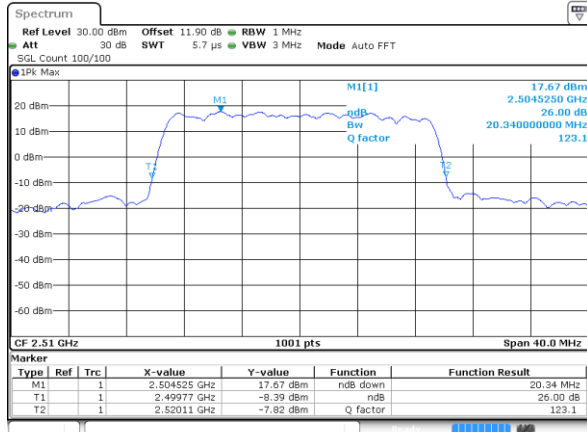
Date: 6 JAN 2018 22:34:08

LTE Band 7
Lowest Channel / 15MHz / QPSK

Lowest Channel / 15MHz / 16QAM

Middle Channel / 15MHz / QPSK

Middle Channel / 15MHz / 16QAM

Highest Channel / 15MHz / QPSK

Highest Channel / 15MHz / 16QAM


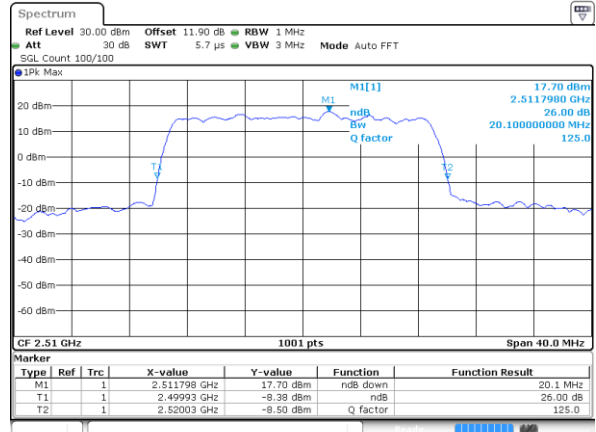


LTE Band 7

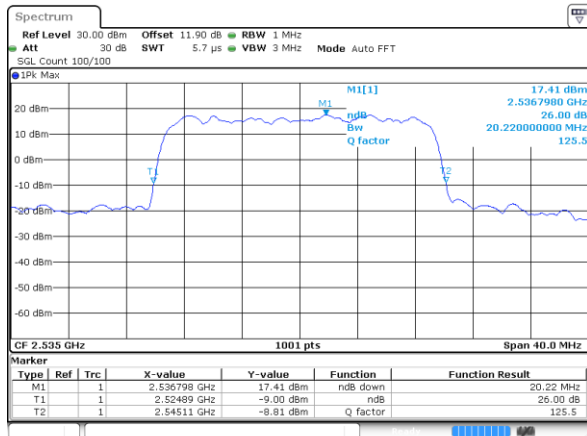
Lowest Channel / 20MHz / QPSK



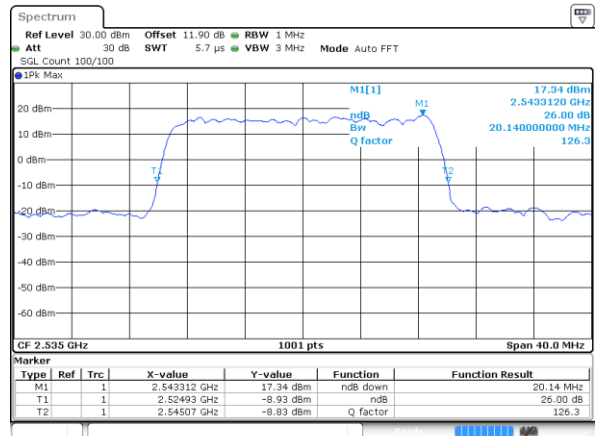
Lowest Channel / 20MHz / 16QAM



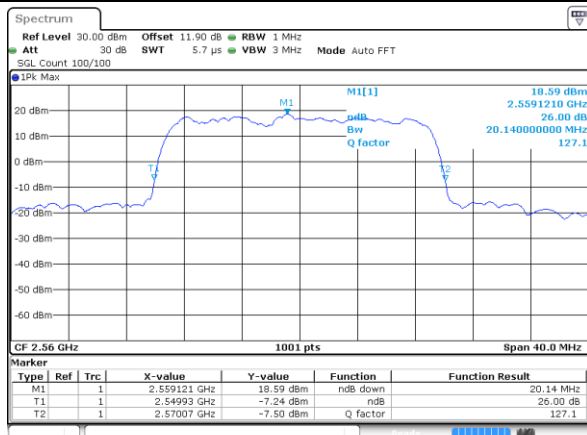
Middle Channel / 20MHz / QPSK



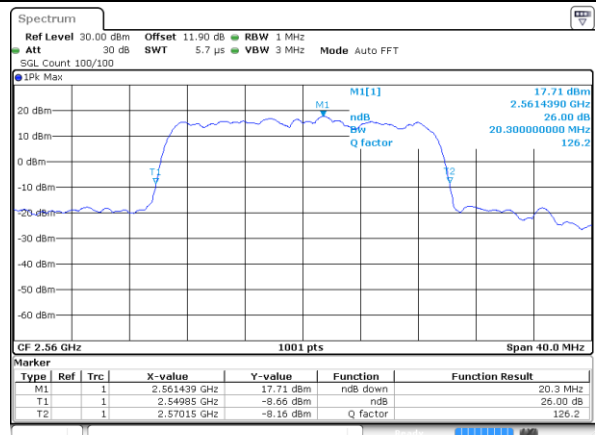
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



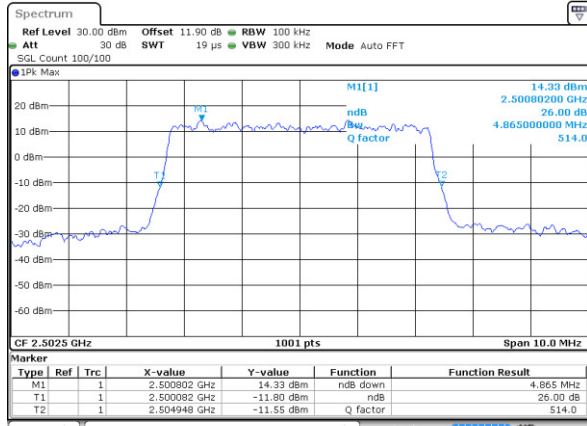
Highest Channel / 20MHz / 16QAM





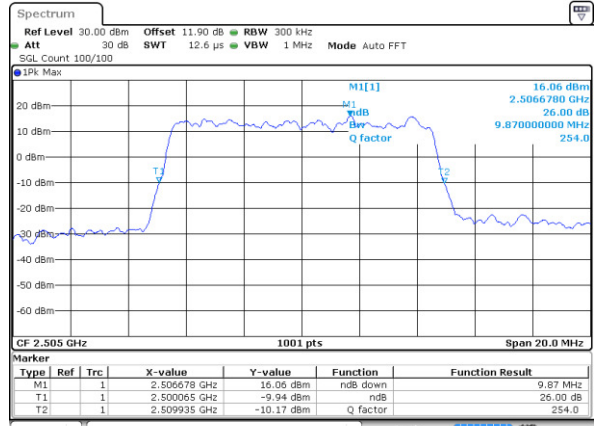
LTE Band 7

Lowest Channel / 5MHz / 64QAM



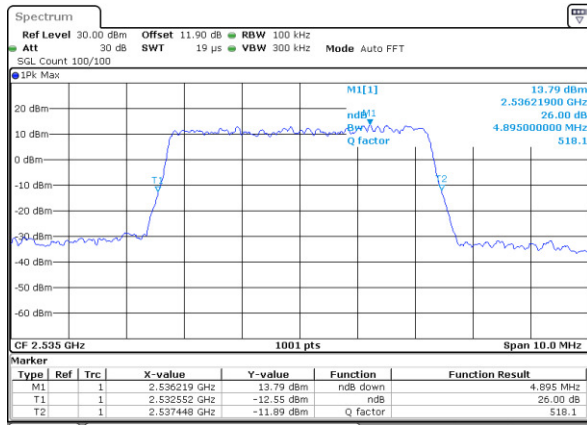
Date: 1.FEB.2018 22:34:20

Lowest Channel / 10MHz / 64QAM



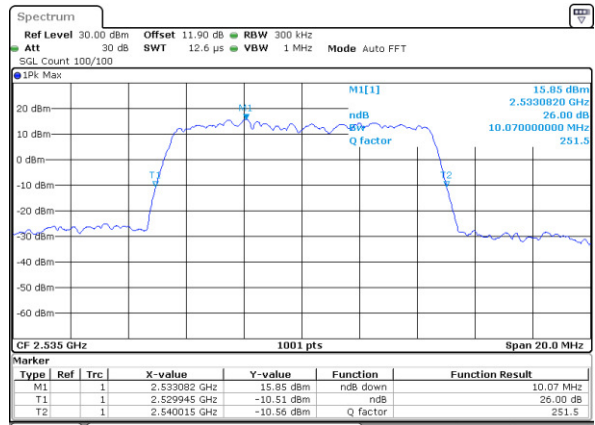
Date: 1.FEB.2018 22:43:00

Middle Channel / 5MHz / 64QAM



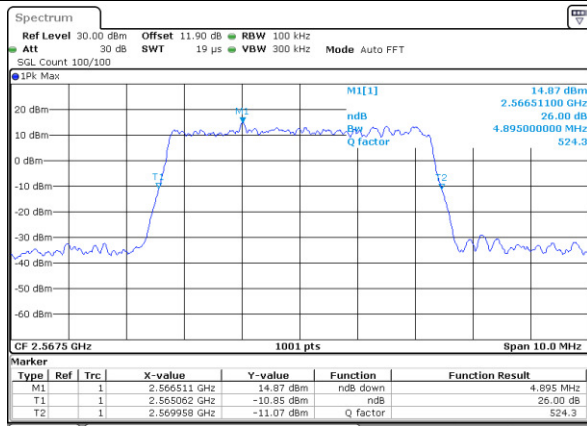
Date: 1.FEB.2018 22:38:14

Middle Channel / 10MHz / 64QAM



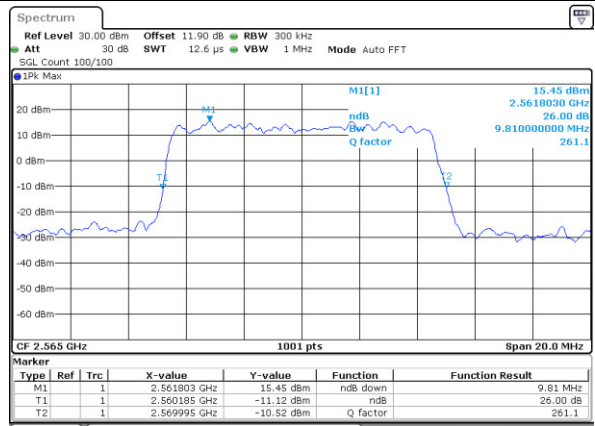
Date: 1.FEB.2018 22:46:32

Highest Channel / 5MHz / 64QAM



Date: 1.FEB.2018 22:39:28

Highest Channel / 10MHz / 64QAM

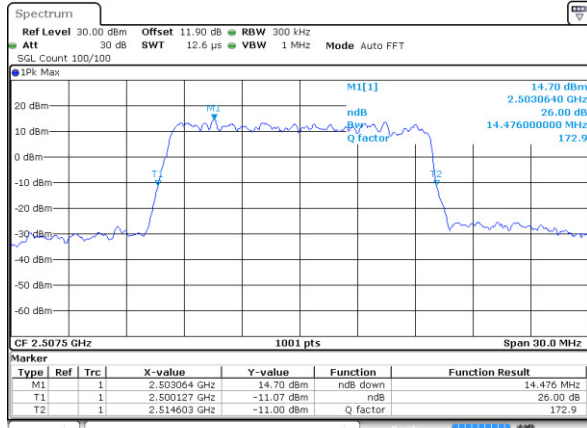


Date: 1.FEB.2018 22:47:45



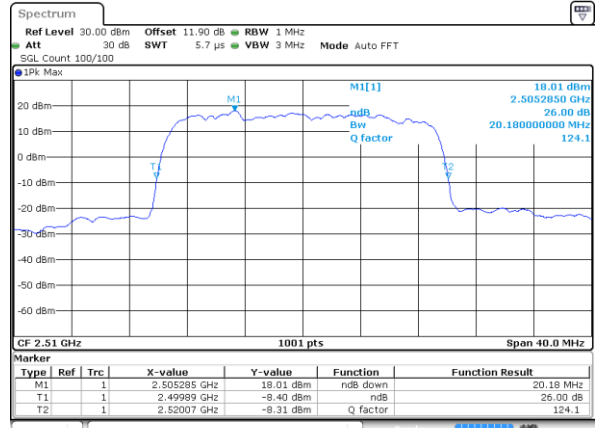
LTE Band 7

Lowest Channel / 15MHz / 64QAM



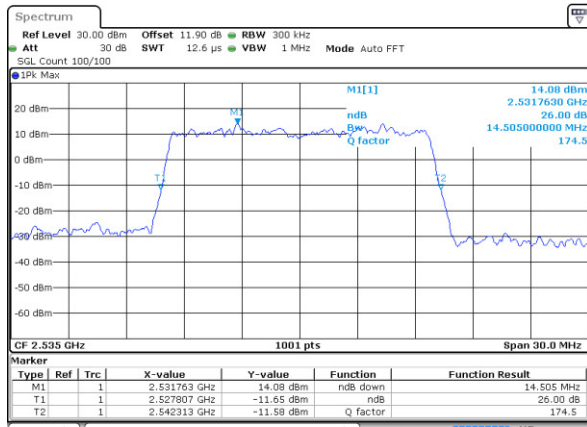
Date: 1 FEB 2018 22:51:17

Lowest Channel / 20MHz / 64QAM



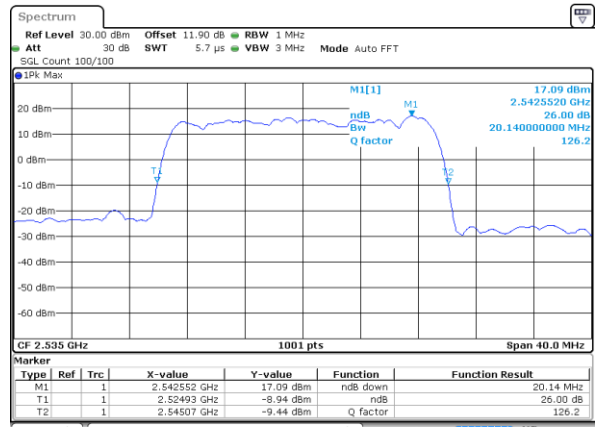
Date: 1 FEB 2018 22:59:33

Middle Channel / 15MHz / 64QAM



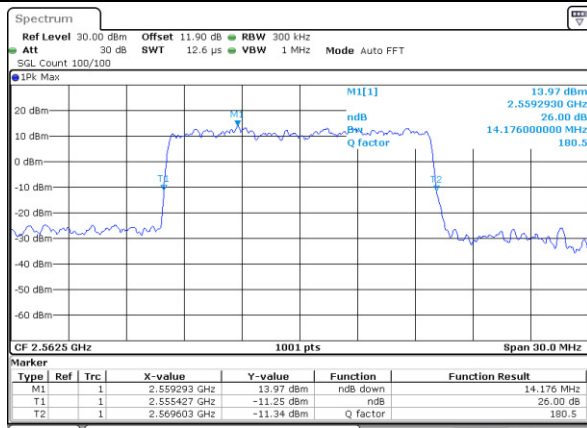
Date: 1 FEB 2018 22:54:48

Middle Channel / 20MHz / 64QAM



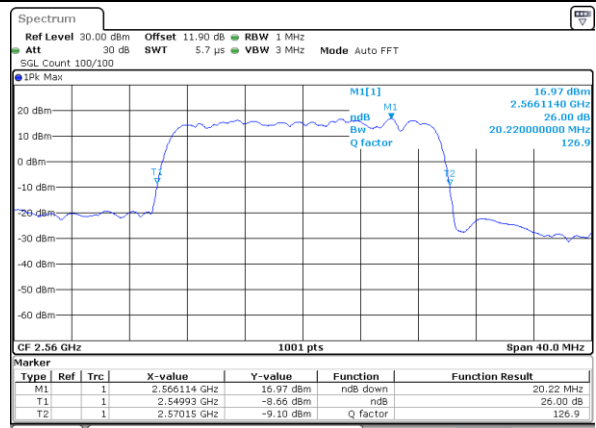
Date: 1 FEB 2018 23:03:05

Highest Channel / 15MHz / 64QAM



Date: 1 FEB 2018 22:56:02

Highest Channel / 20MHz / 64QAM



Date: 1 FEB 2018 23:04:18

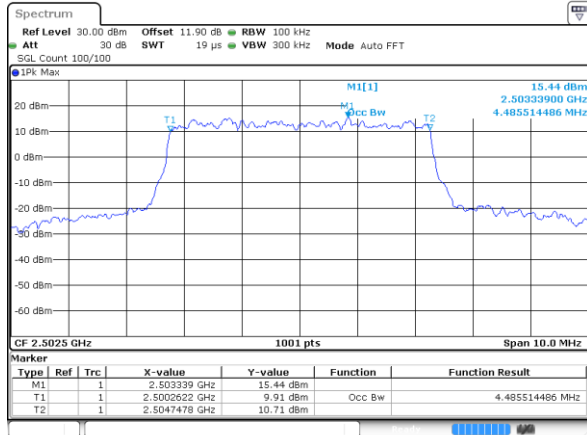
**Occupied Bandwidth**

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	-	-	-	-	4.49	4.48	8.93	9.01	13.4	13.49	18.38	18.34
Middle CH	-	-	-	-	4.48	4.49	9.01	9.07	13.43	13.52	18.42	18.42
Highest CH	-	-	-	-	4.48	4.5	9.01	8.97	13.43	13.52	18.26	18.5
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	9.03	-	13.46	-	18.30	-
Middle CH	-	-	-	-	4.48	-	9.03	-	13.40	-	18.22	-
Highest CH	-	-	-	-	4.50	-	9.05	-	13.46	-	18.38	-



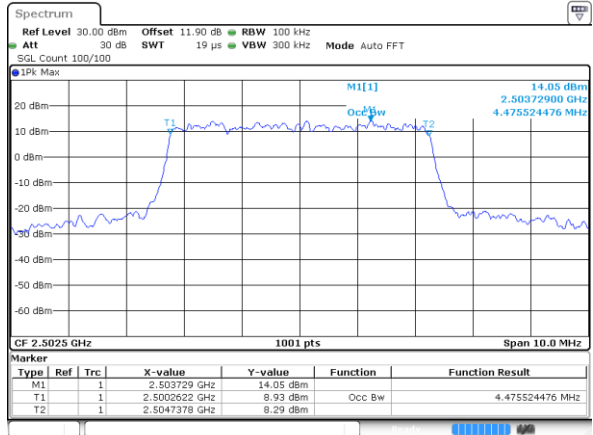
LTE Band 7

Lowest Channel / 5MHz / QPSK



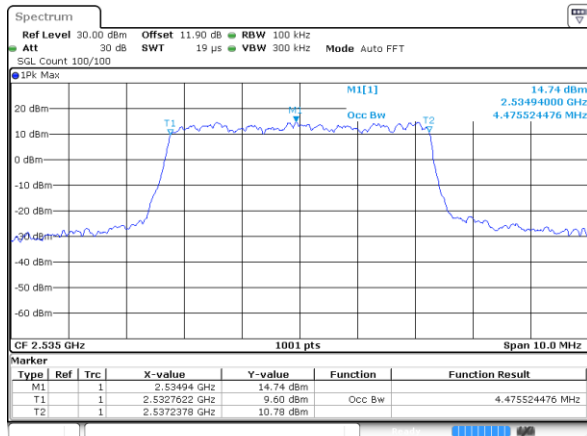
Date: 6 JAN 2018 22:06:07

Lowest Channel / 5MHz / 16QAM



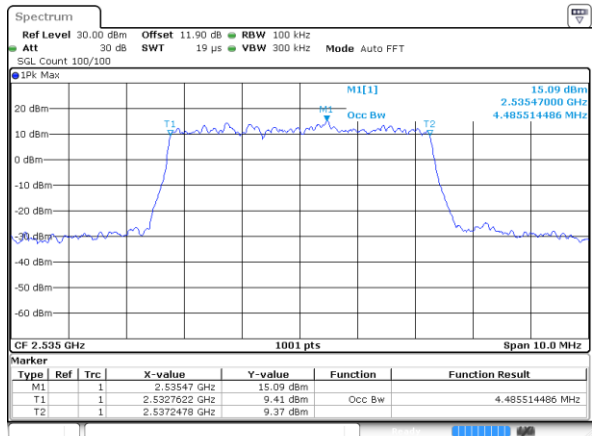
Date: 6 JAN 2018 22:06:17

Middle Channel / 5MHz / QPSK



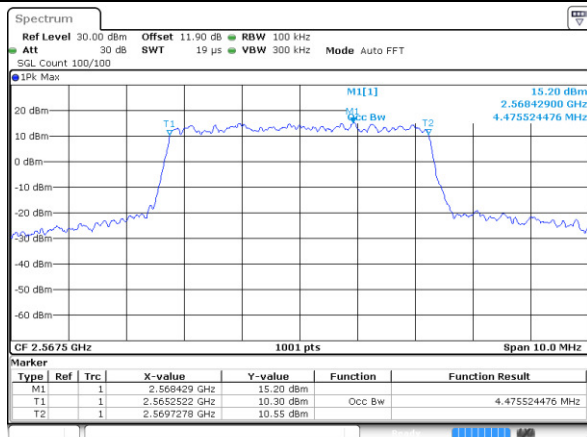
Date: 6 JAN 2018 22:13:27

Middle Channel / 5MHz / 16QAM



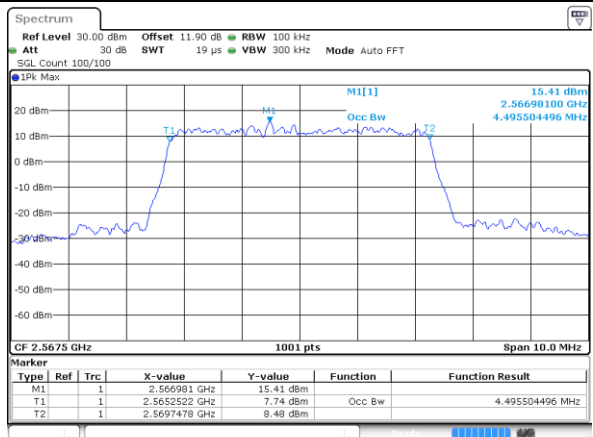
Date: 6 JAN 2018 22:13:37

Highest Channel / 5MHz / QPSK



Date: 6 JAN 2018 22:16:15

Highest Channel / 5MHz / 16QAM

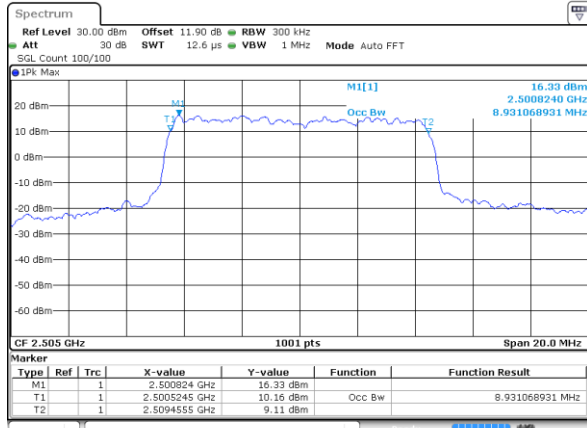


Date: 6 JAN 2018 22:16:25



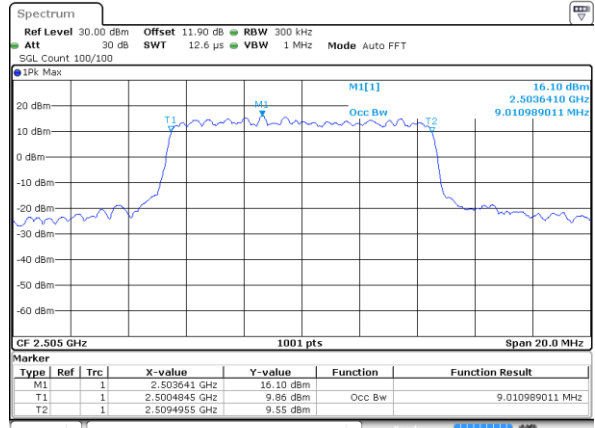
LTE Band 7

Lowest Channel / 10MHz / QPSK



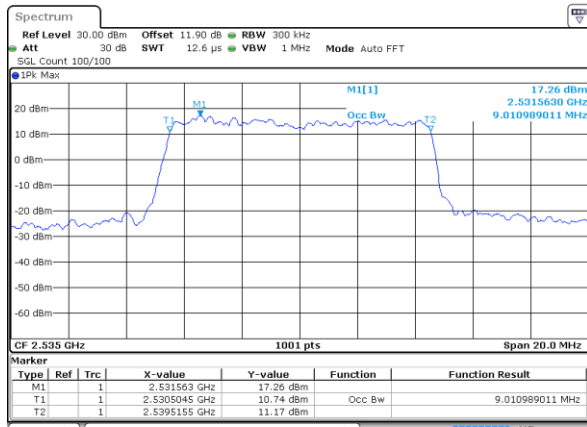
Date: 6 JAN 2018 22:23:38

Lowest Channel / 10MHz / 16QAM



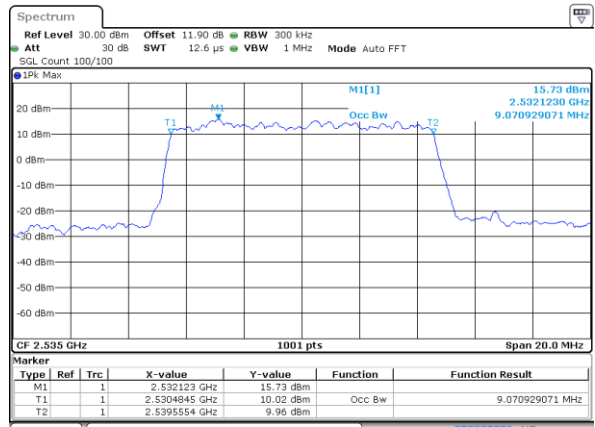
Date: 6 JAN 2018 22:23:48

Middle Channel / 10MHz / QPSK



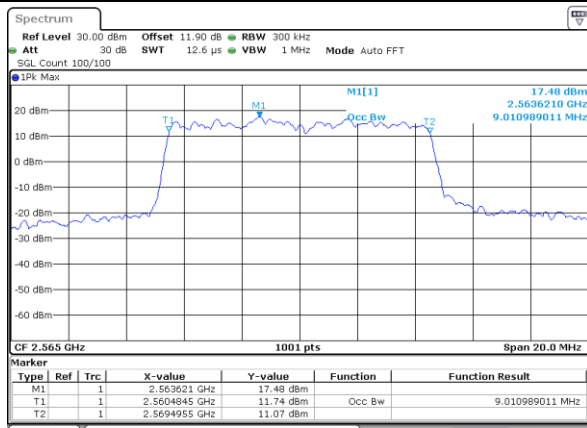
Date: 6 JAN 2018 22:31:05

Middle Channel / 10MHz / 16QAM



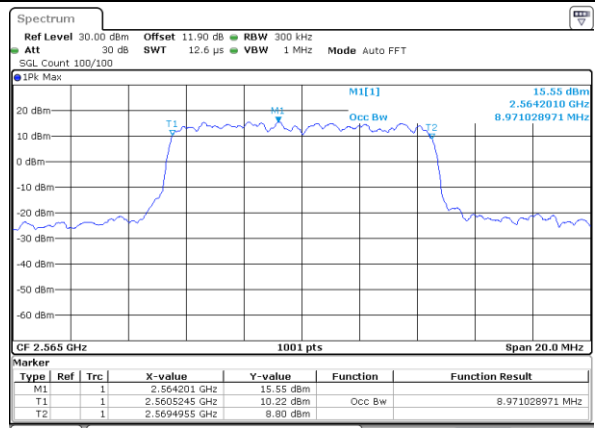
Date: 6 JAN 2018 22:31:15

Highest Channel / 10MHz / QPSK



Date: 6 JAN 2018 22:33:38

Highest Channel / 10MHz / 16QAM

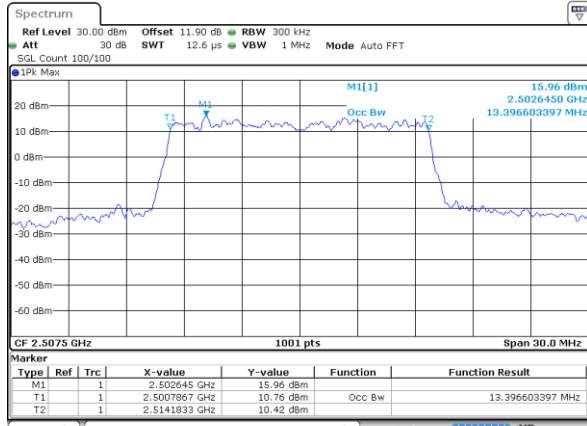


Date: 6 JAN 2018 22:33:48



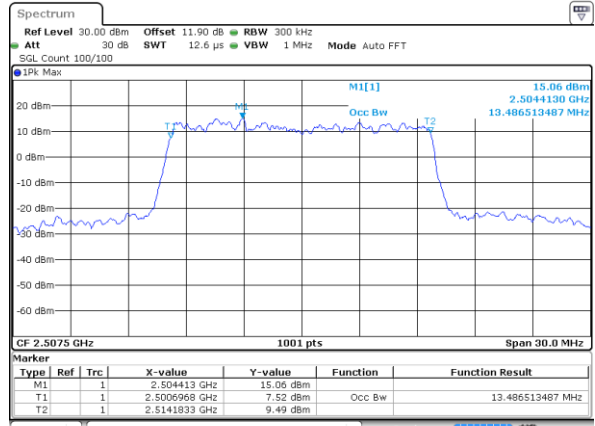
LTE Band 7

Lowest Channel / 15MHz / QPSK



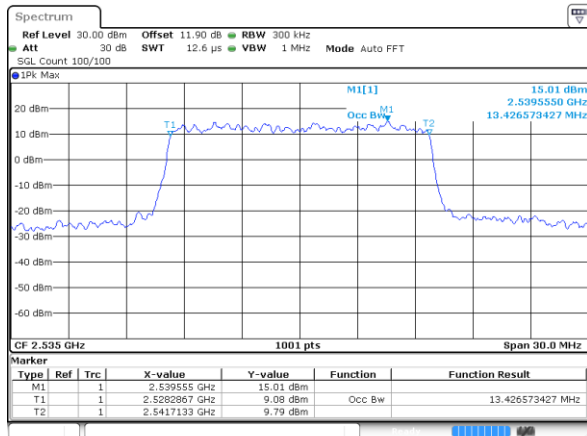
Date: 6 JAN 2018 22:41:02

Lowest Channel / 15MHz / 16QAM



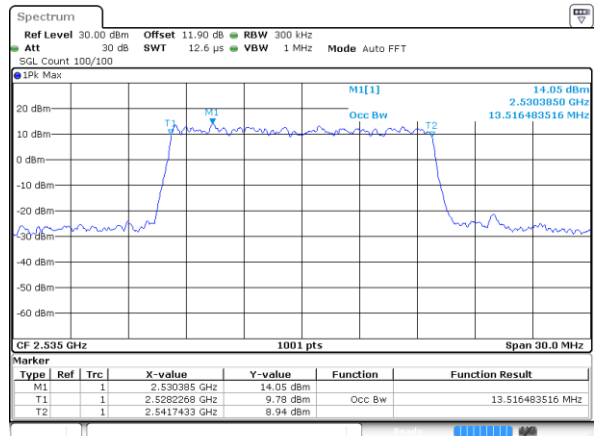
Date: 6 JAN 2018 22:41:12

Middle Channel / 15MHz / QPSK



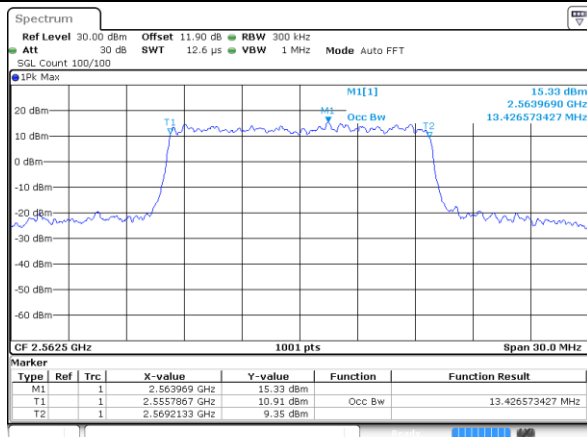
Date: 6 JAN 2018 22:48:26

Middle Channel / 15MHz / 16QAM



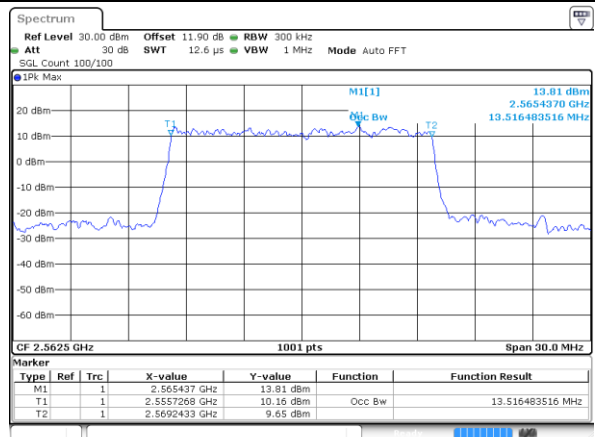
Date: 6 JAN 2018 22:48:36

Highest Channel / 15MHz / QPSK



Date: 6 JAN 2018 22:50:59

Highest Channel / 15MHz / 16QAM

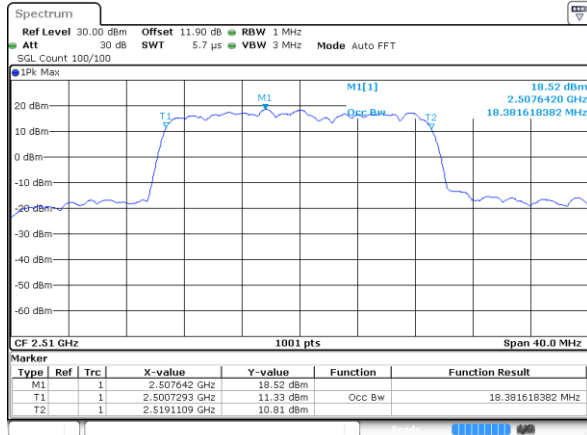


Date: 6 JAN 2018 22:51:09

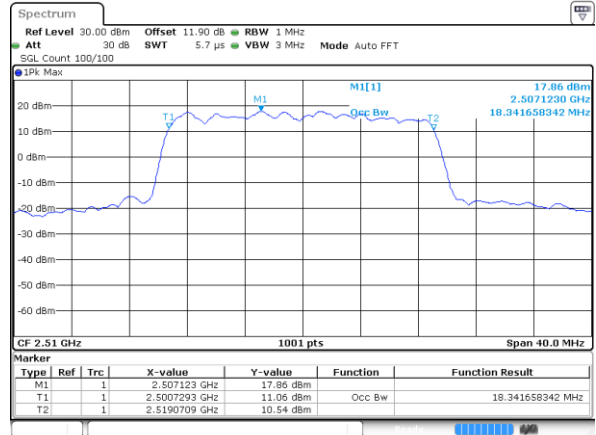


LTE Band 7

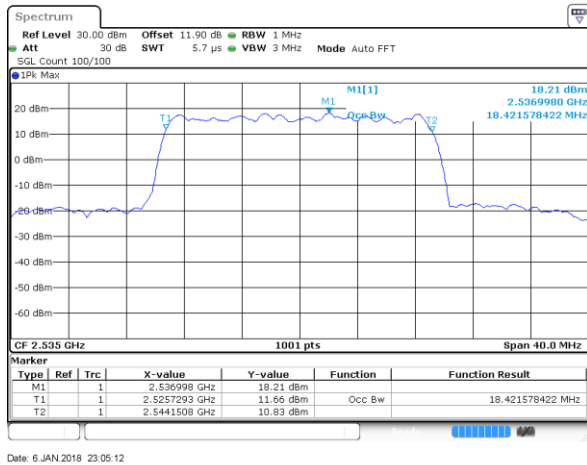
Lowest Channel / 20MHz / QPSK



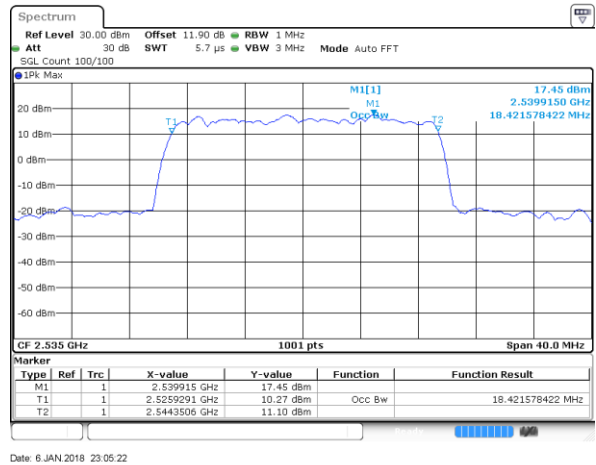
Lowest Channel / 20MHz / 16QAM



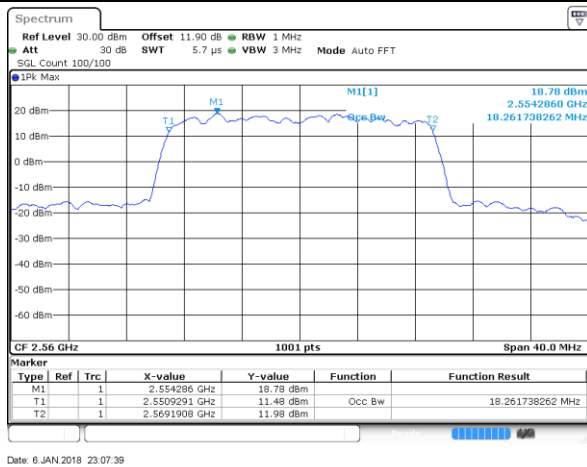
Middle Channel / 20MHz / QPSK



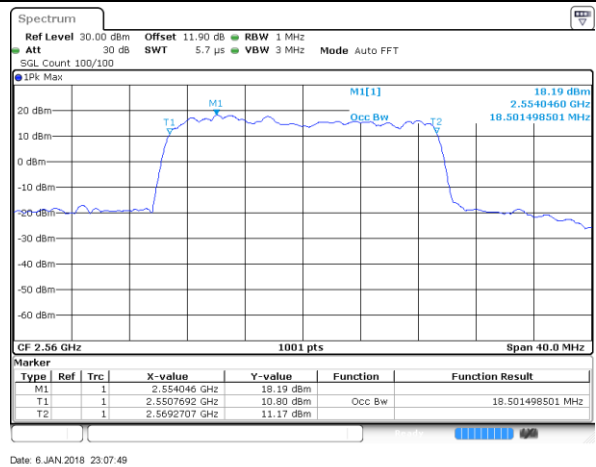
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



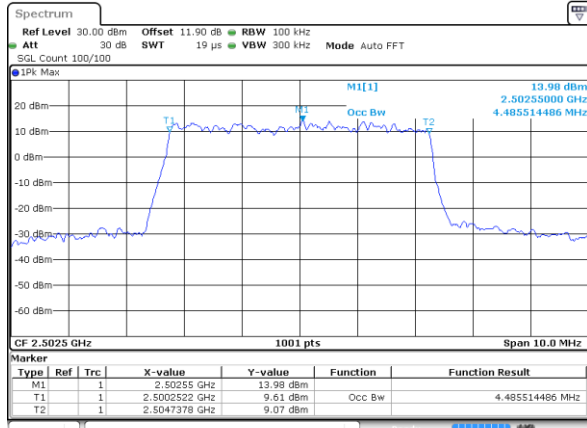
Highest Channel / 20MHz / 16QAM





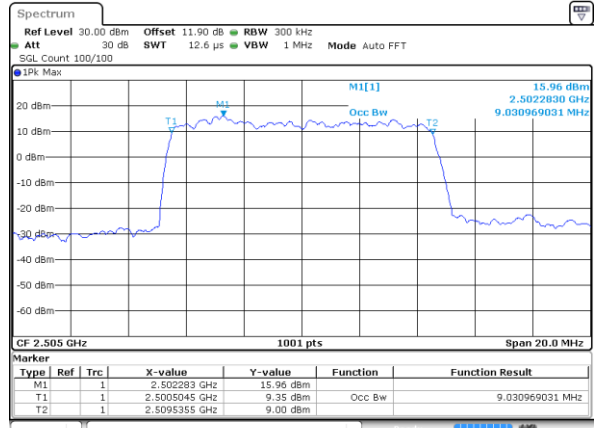
LTE Band 7

Lowest Channel / 5MHz / 64QAM



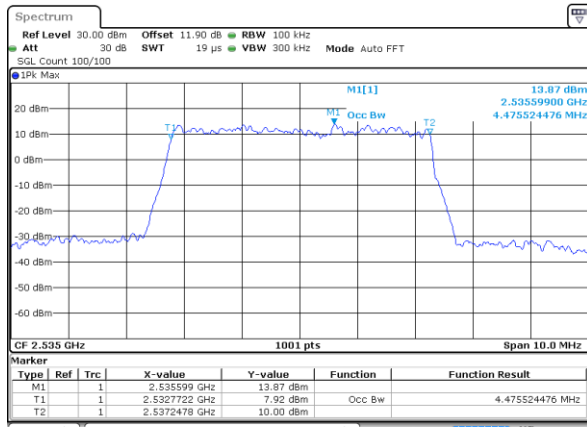
Date: 1 FEB 2018 22:34:10

Lowest Channel / 10MHz / 64QAM



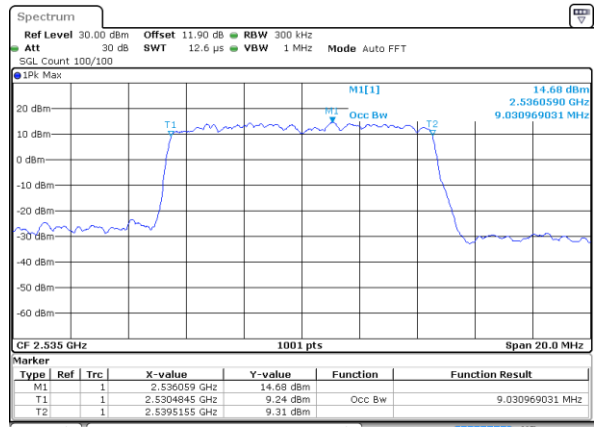
Date: 1 FEB 2018 22:42:50

Middle Channel / 5MHz / 64QAM



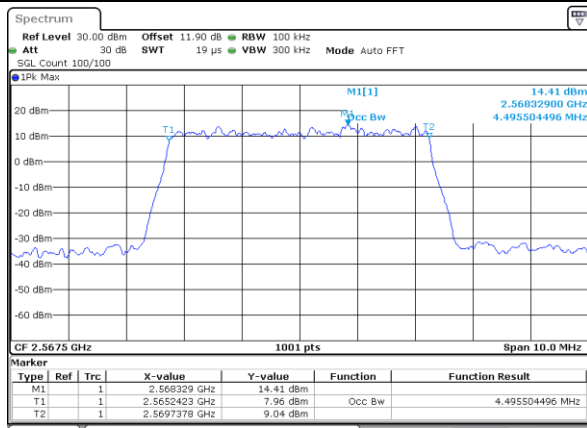
Date: 1 FEB 2018 22:38:04

Middle Channel / 10MHz / 64QAM



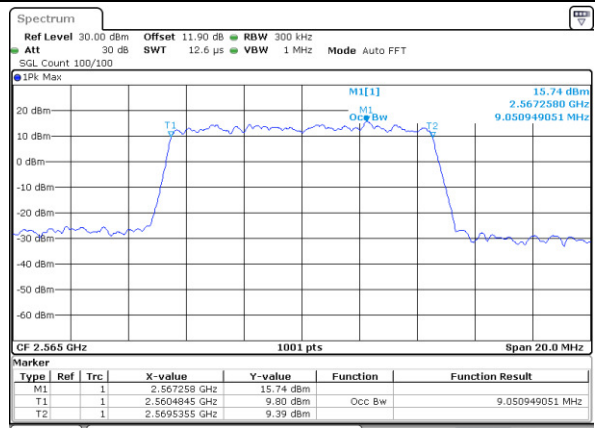
Date: 1 FEB 2018 22:46:21

Highest Channel / 5MHz / 64QAM



Date: 1 FEB 2018 22:39:18

Highest Channel / 10MHz / 64QAM

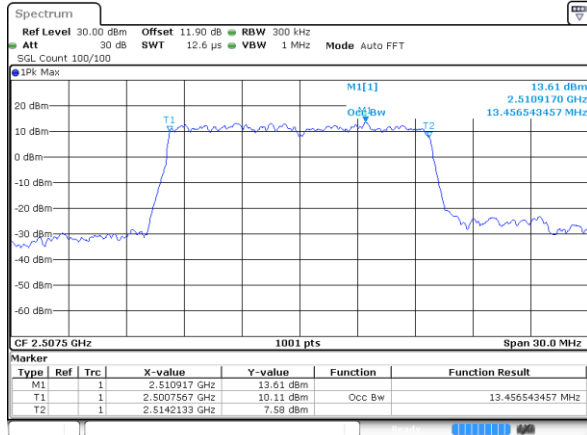


Date: 1 FEB 2018 22:47:35

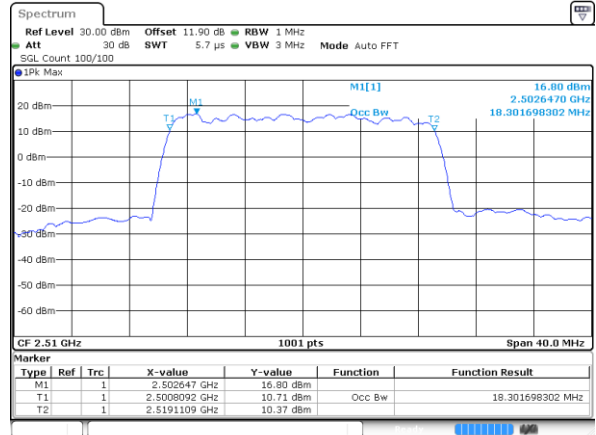


LTE Band 7

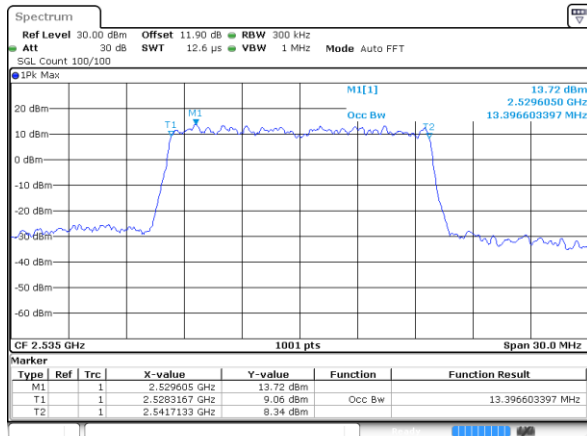
Lowest Channel / 15MHz / 64QAM



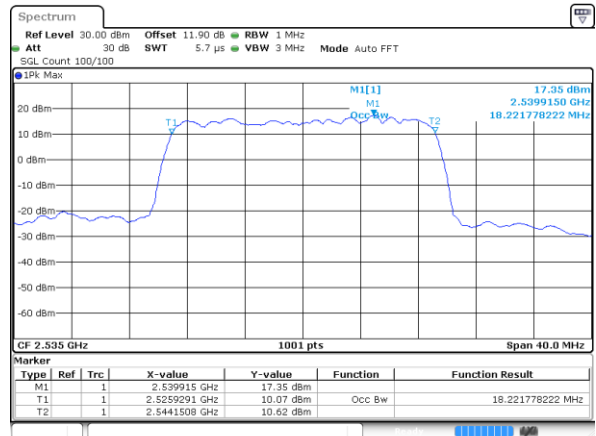
Lowest Channel / 20MHz / 64QAM



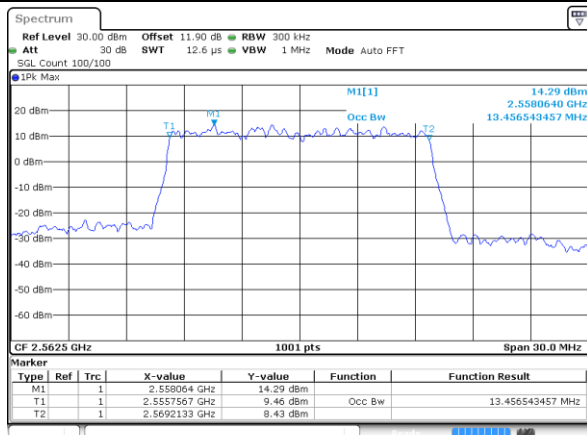
Middle Channel / 15MHz / 64QAM



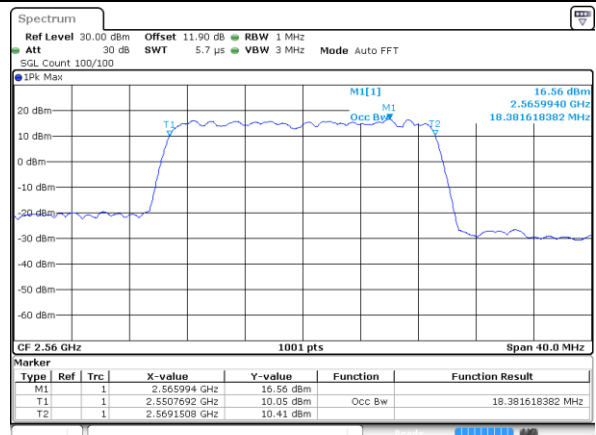
Middle Channel / 20MHz / 64QAM

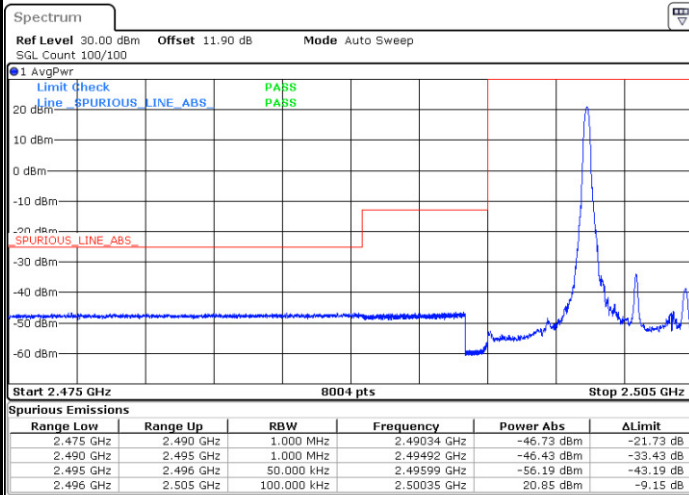
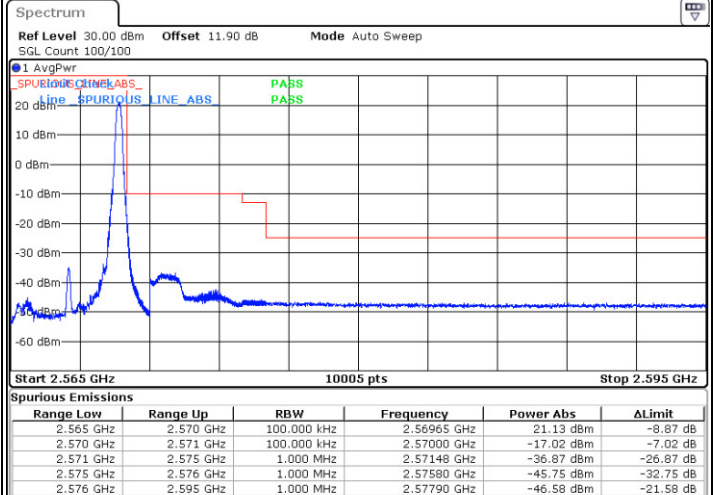
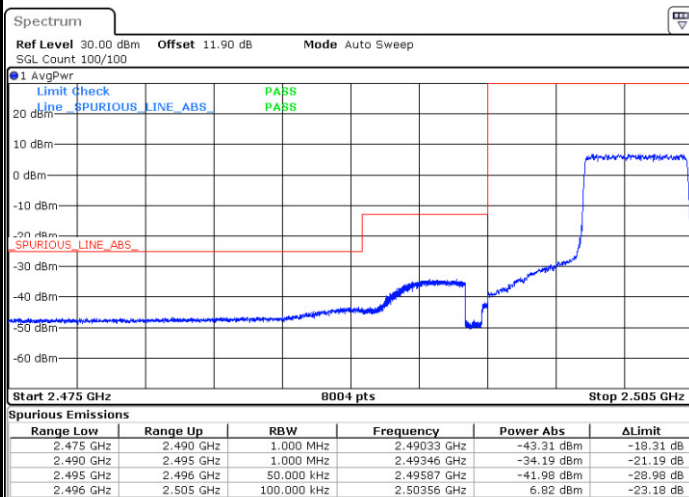
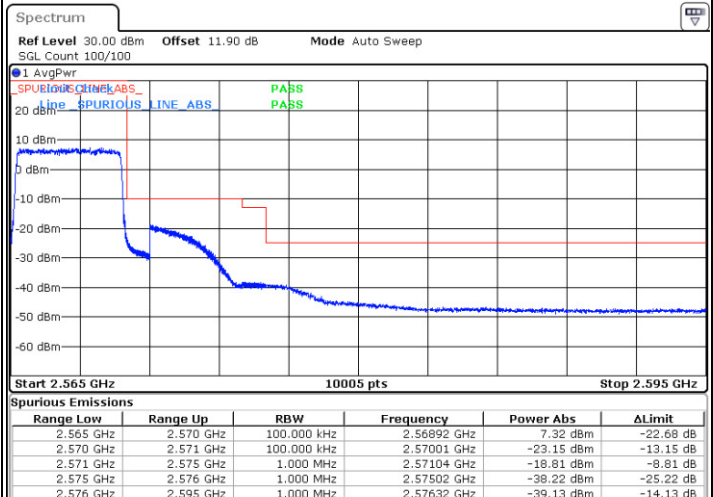


Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

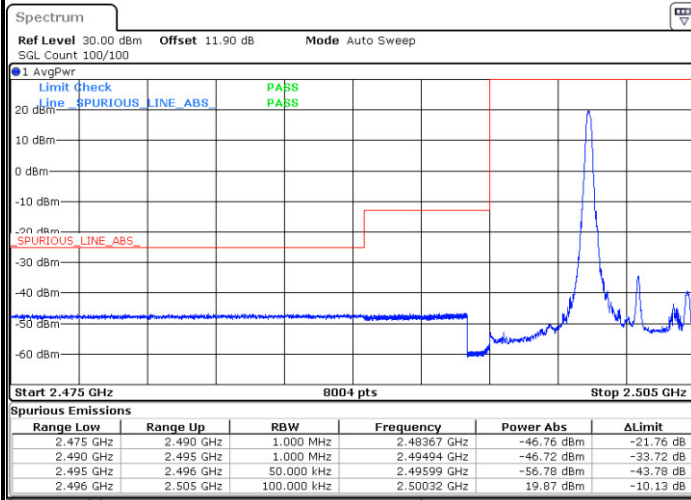


**Conducted Band Edge****LTE Band 7 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

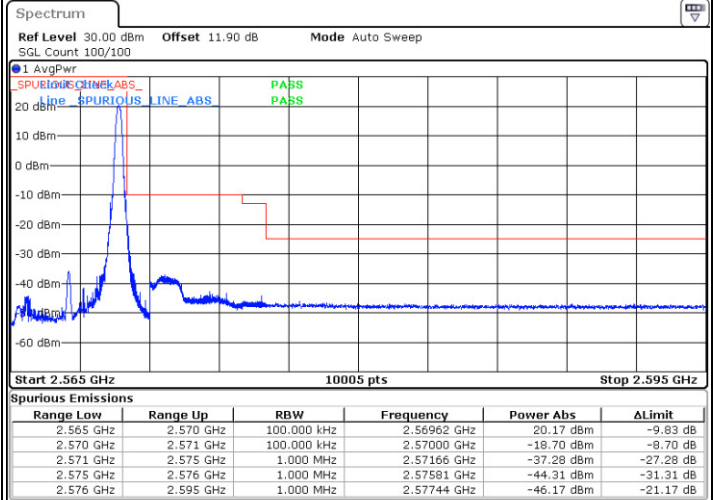


LTE Band 7 / 5MHz / 16QAM

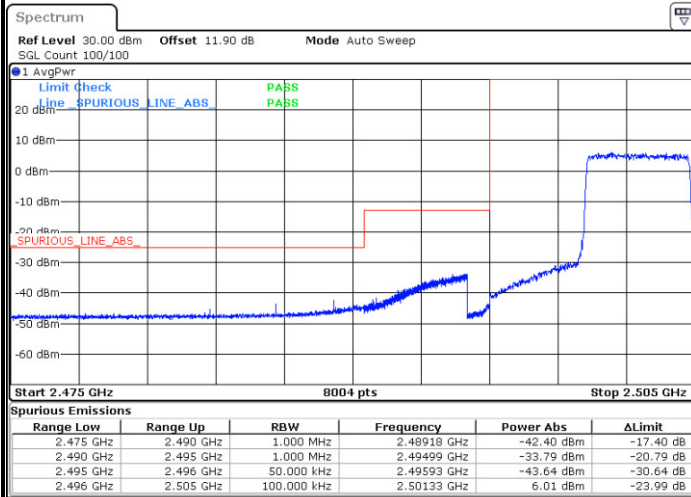
Lowest Band Edge / 1 RB



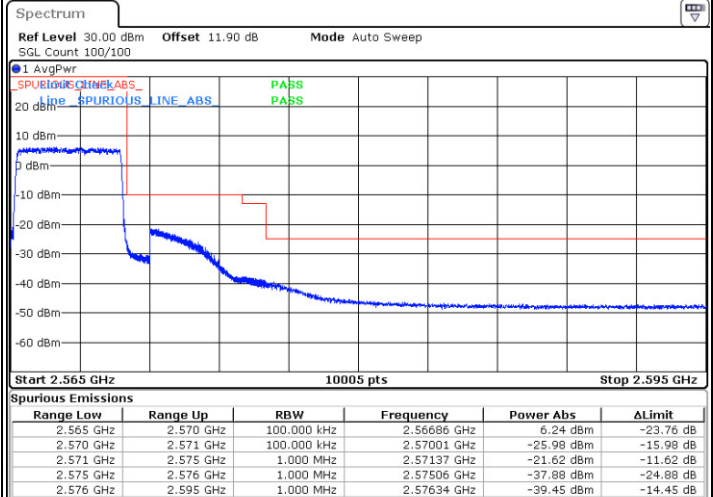
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



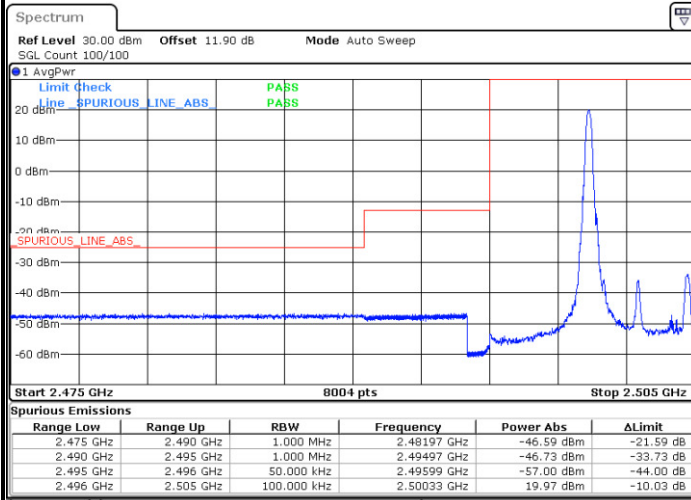
Highest Band Edge / Full RB



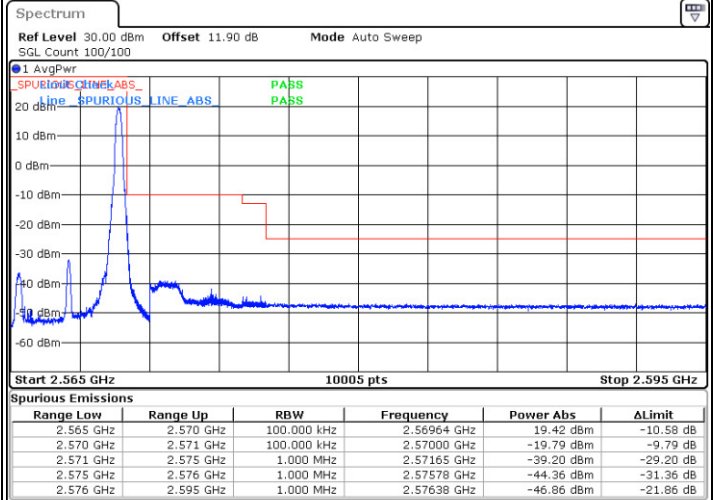


LTE Band 7 / 5MHz / 64QAM

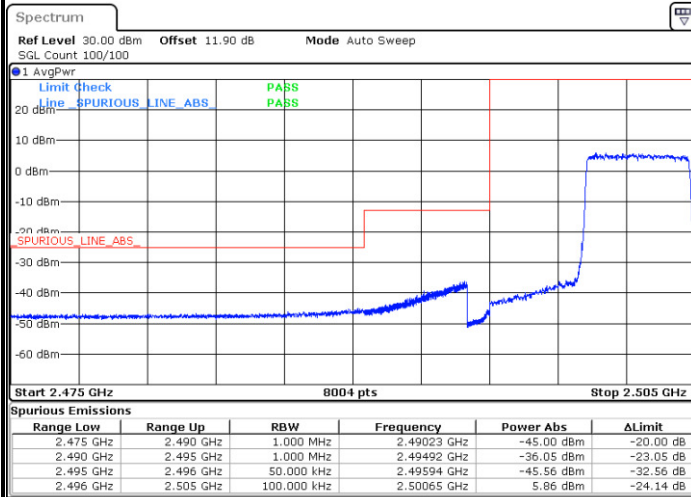
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

