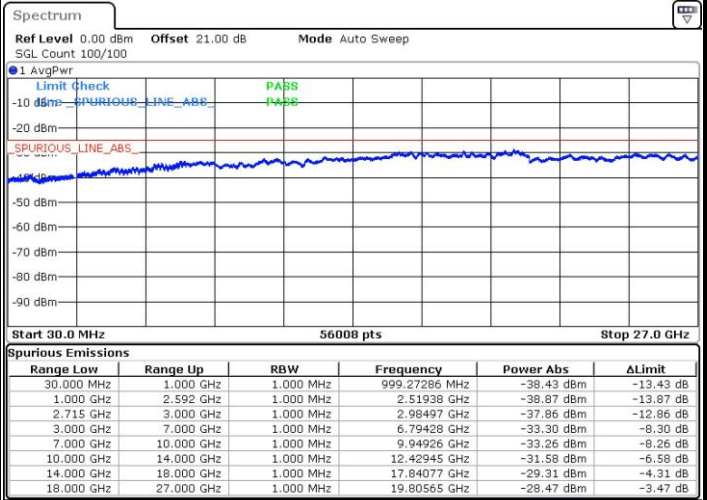
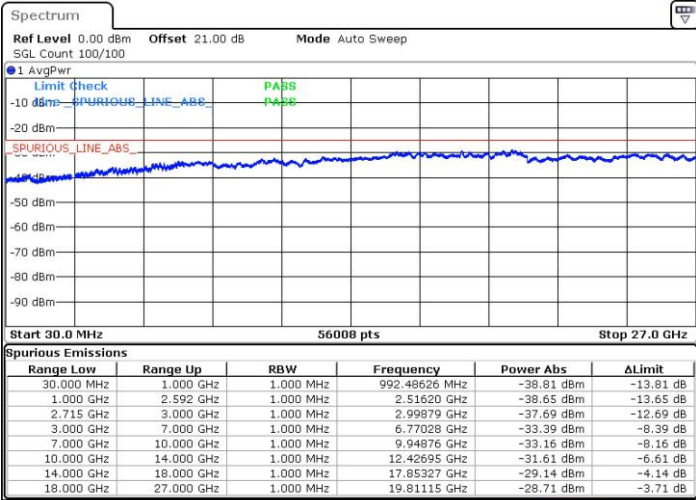




LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

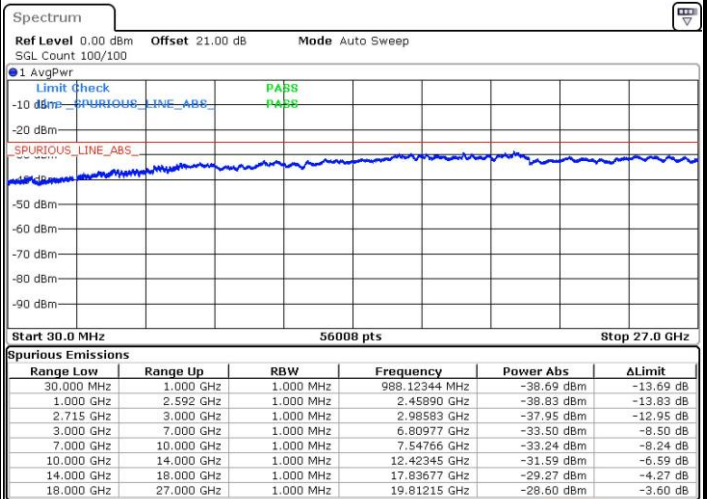
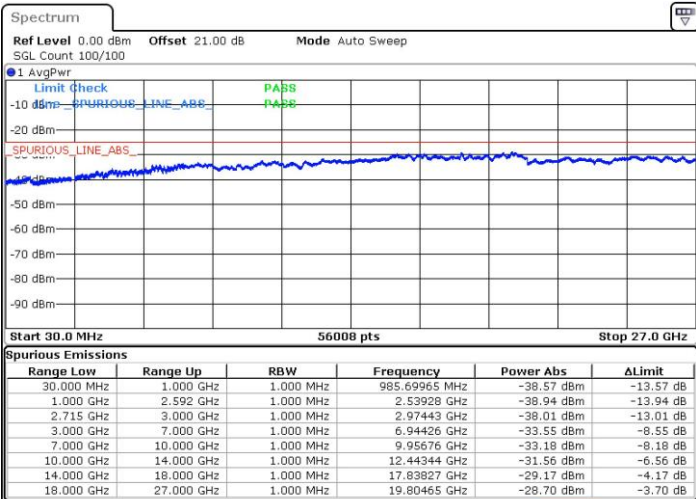


Date: 13.DEC.2018 16:53:25

Date: 13.DEC.2018 16:54:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.DEC.2018 16:55:29

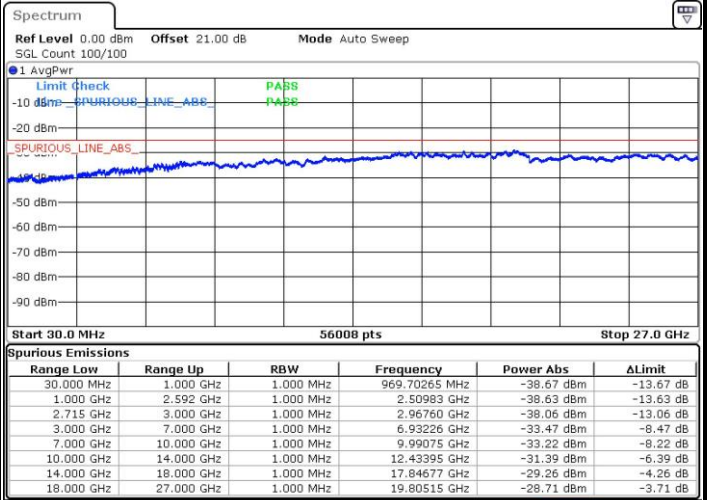
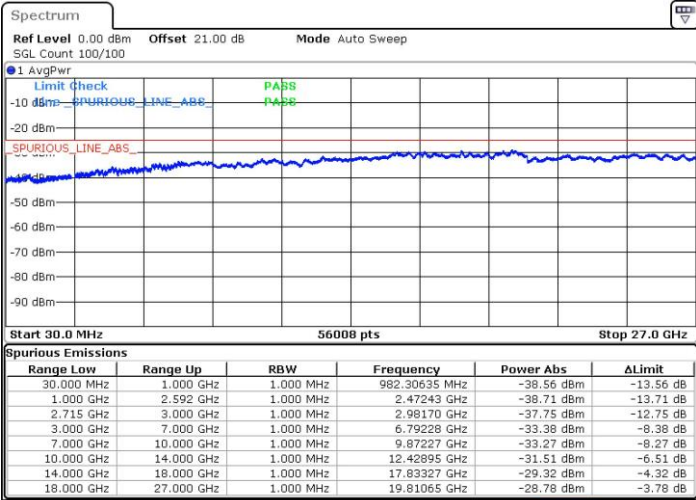
Date: 13.DEC.2018 16:56:31



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

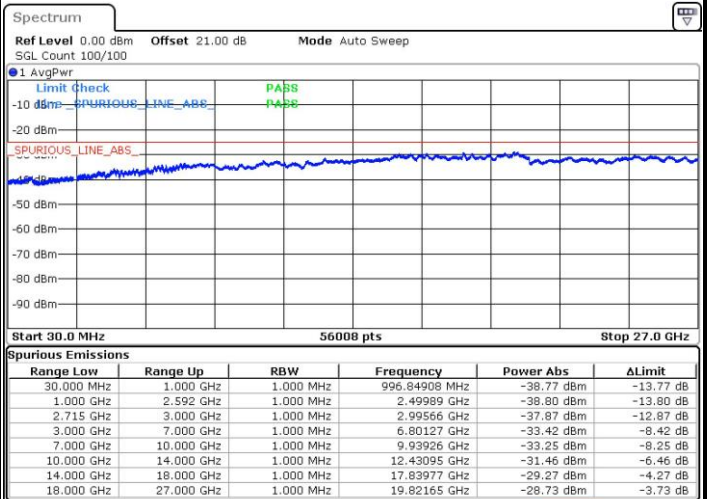
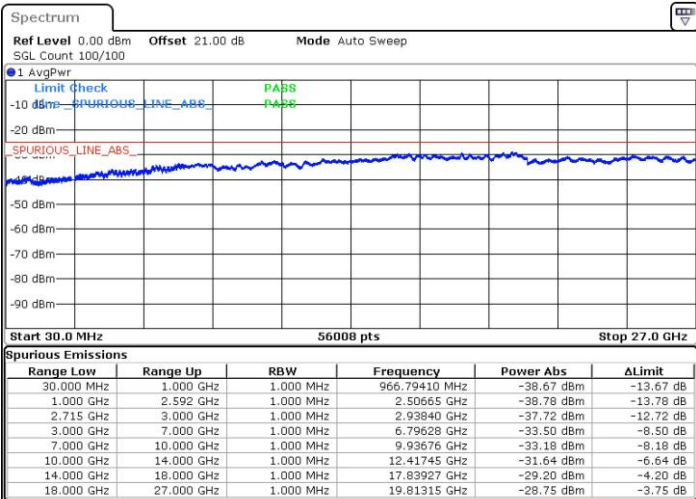


Date: 13.DEC.2018 16:57:33

Date: 13.DEC.2018 16:58:35

Middle Channel / QPSK

Middle Channel / 16QAM



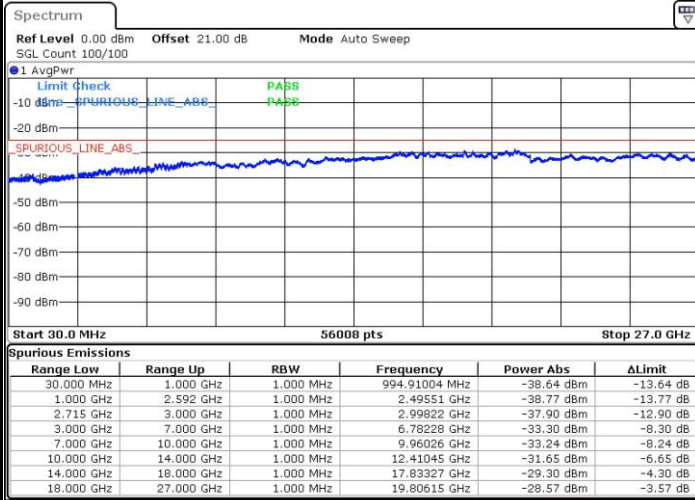
Date: 13.DEC.2018 17:04:53

Date: 13.DEC.2018 17:09:37



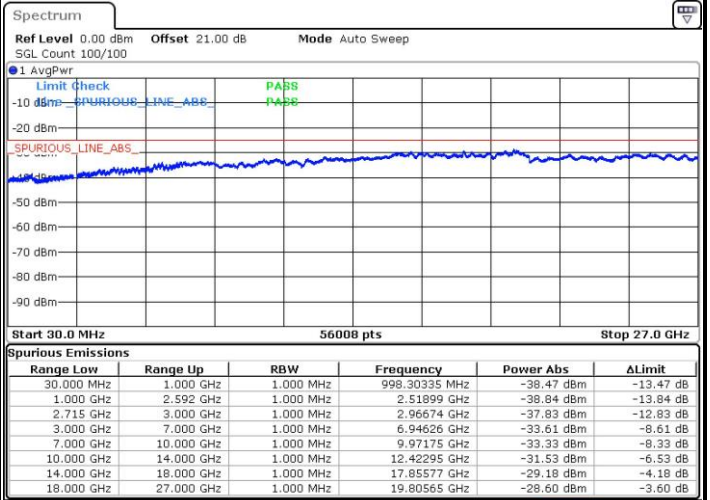
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 13.DEC.2018 17:22:01

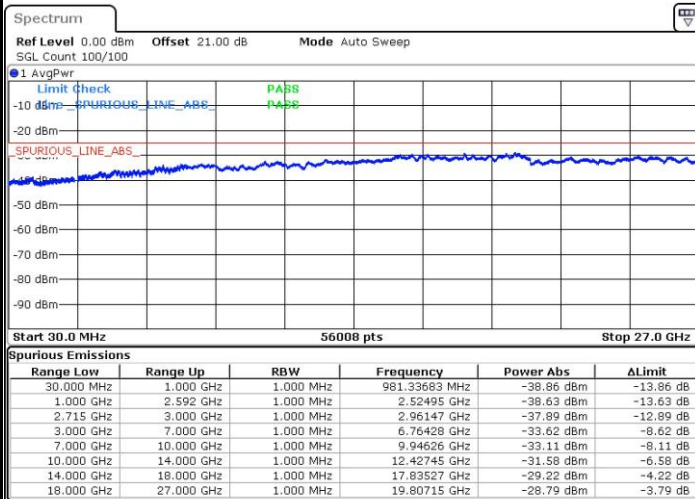
Highest Channel / 16QAM



Date: 13.DEC.2018 17:37:30

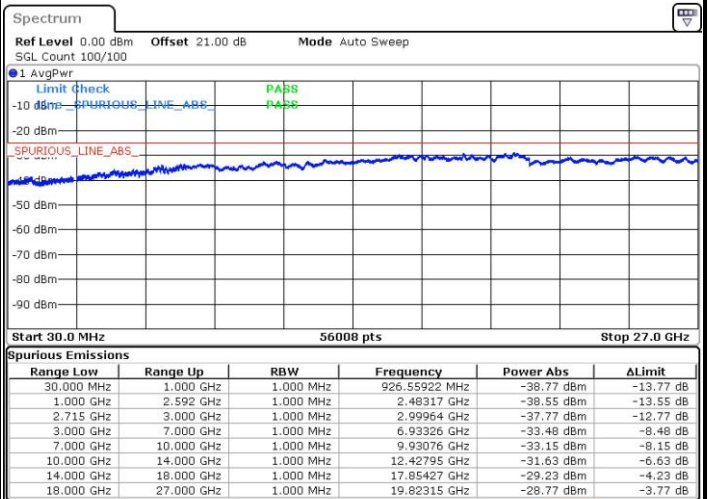
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 13.DEC.2018 17:39:28

Lowest Channel / 16QAM



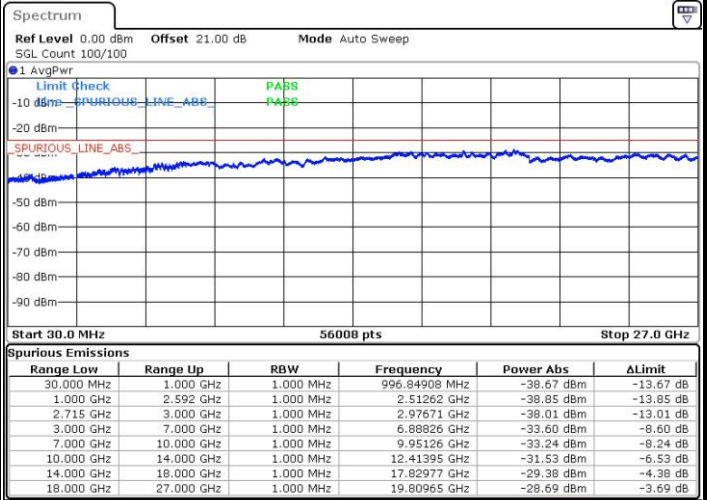
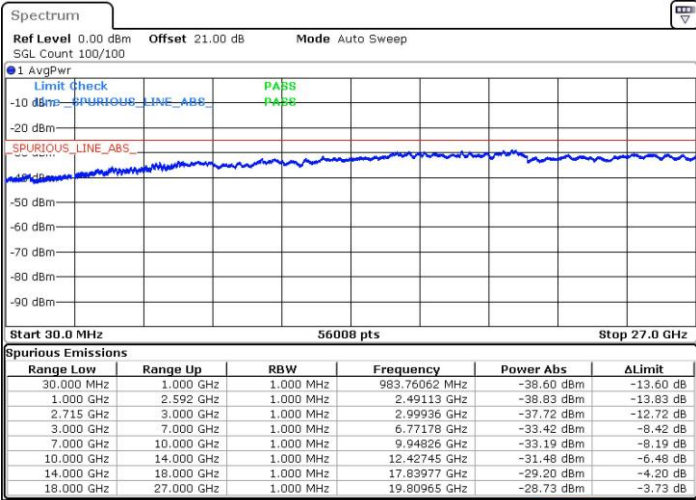
Date: 13.DEC.2018 17:40:58



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

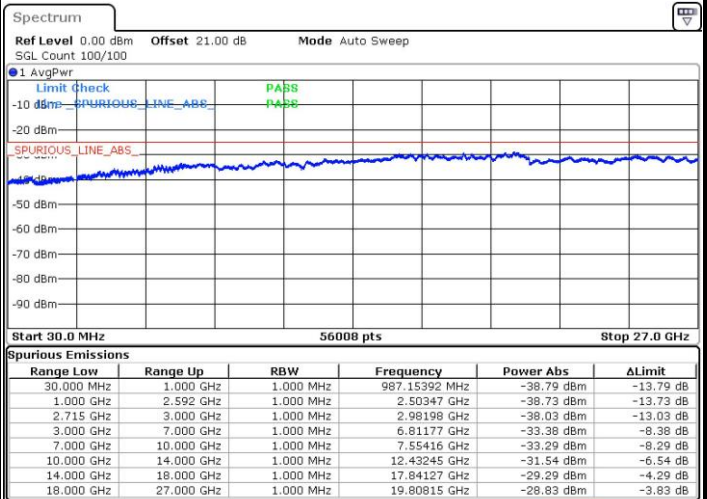
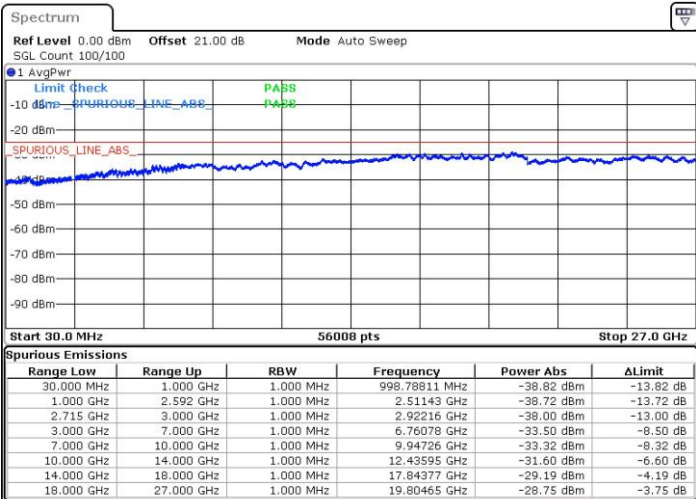


Date: 13.DEC.2018 17:42:37

Date: 13.DEC.2018 17:44:24

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 13.DEC.2018 17:46:45

Date: 13.DEC.2018 17:48:02



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0039	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0040	
-20	Normal Voltage	0.0008	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0034	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0008	

Note:

- 1. Normal Voltage =120 V. ; Minimum Voltage =100 V. ; Maximum Voltage =240 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.



<For 4x4 Tx High Band Chain 2>

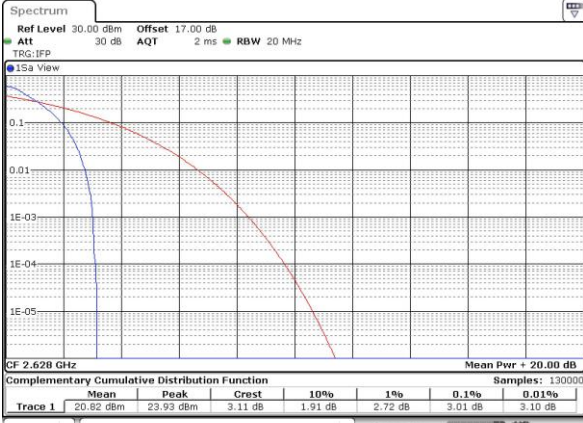
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.01	4.06	3.28	3.54	PASS
Middle CH	4.35	4.12	4.20	4.35	
Highest CH	4.06	4.41	4.84	4.99	



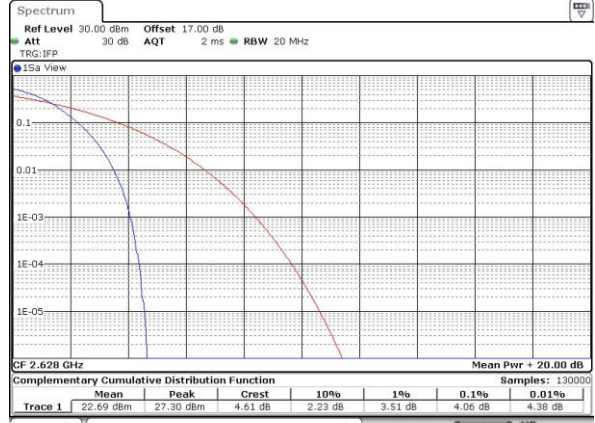
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



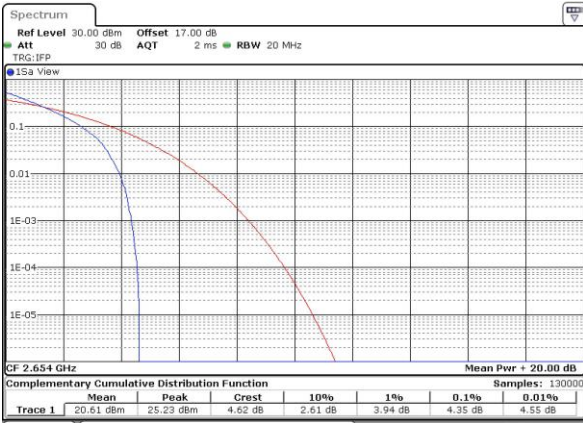
Date: 13 DEC 2018 18:31:27

Lowest Channel / Full RB



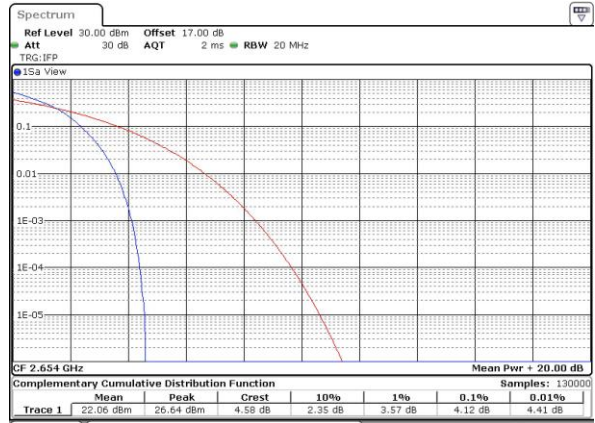
Date: 13 DEC 2018 18:31:48

Middle Channel / 1RB



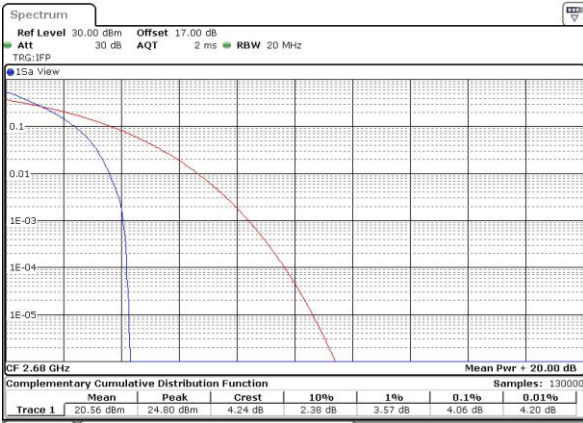
Date: 13 DEC 2018 18:32:52

Middle Channel / Full RB



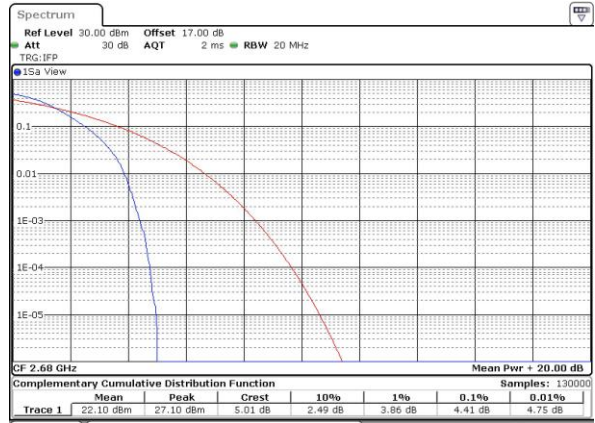
Date: 13 DEC 2018 18:33:30

Highest Channel / 1RB



Date: 13 DEC 2018 18:34:16

Highest Channel / Full RB

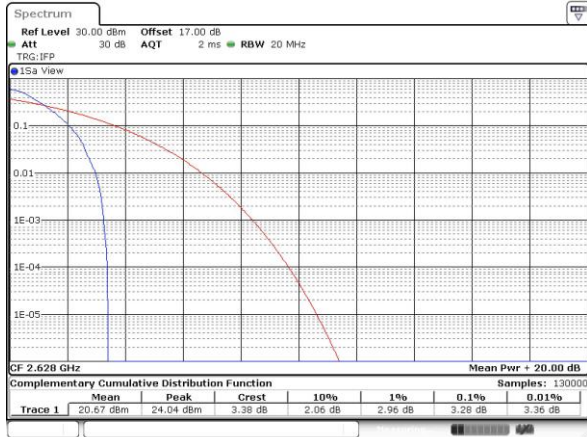


Date: 13 DEC 2018 18:34:42



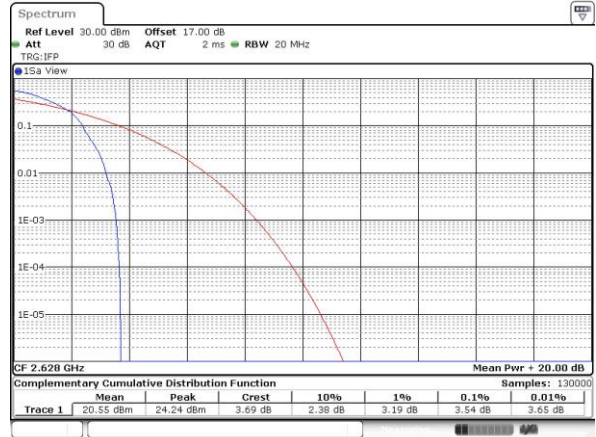
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



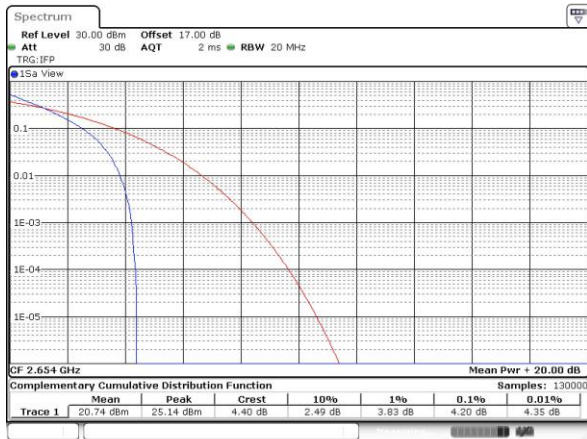
Date: 13 DEC 2018 18:27:45

Lowest Channel / Full RB



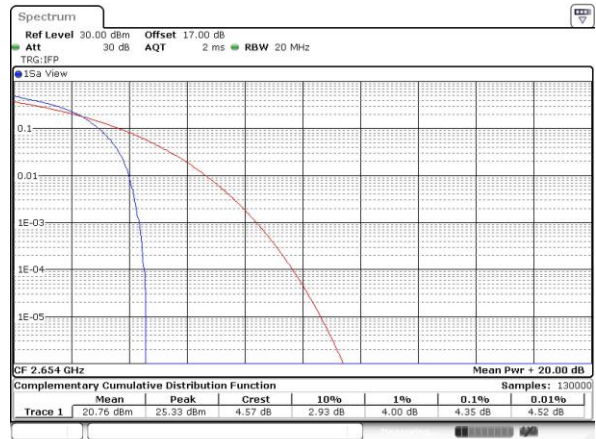
Date: 13 DEC 2018 18:28:03

Middle Channel / 1RB



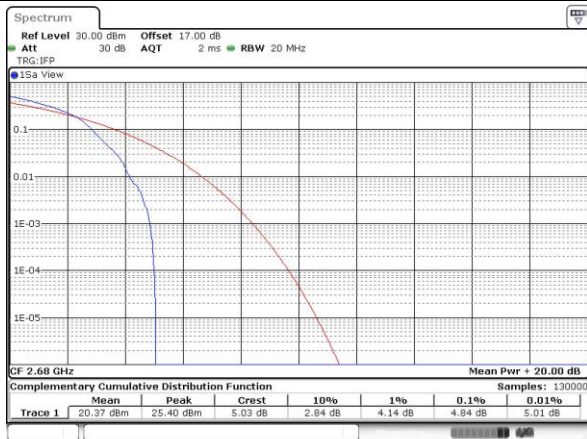
Date: 13 DEC 2018 18:29:15

Middle Channel / Full RB



Date: 13 DEC 2018 18:29:44

Highest Channel / 1RB



Date: 13 DEC 2018 18:30:10

Highest Channel / Full RB



Date: 13 DEC 2018 18:30:35



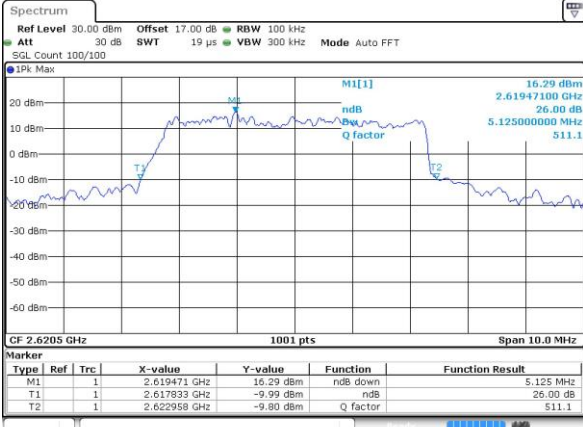
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	5.13	5.00	9.73	9.99	14.18	14.54	20.14	22.06
Middle CH	-	-	-	-	5.44	4.83	9.69	9.81	14.15	14.21	20.02	20.10
Highest CH	-	-	-	-	5.29	5.06	9.73	9.69	14.18	14.27	20.30	20.26



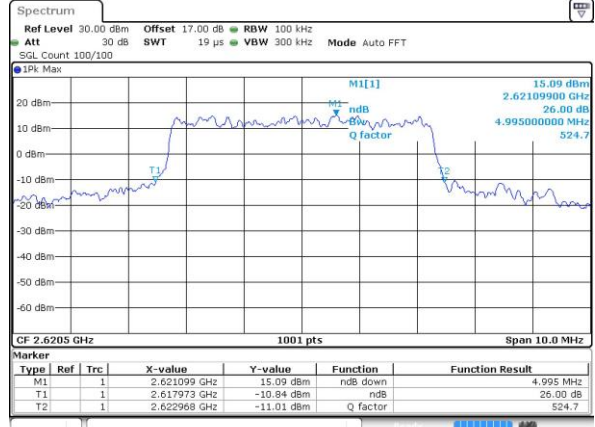
LTE Band 41

Lowest Channel / 5MHz / QPSK



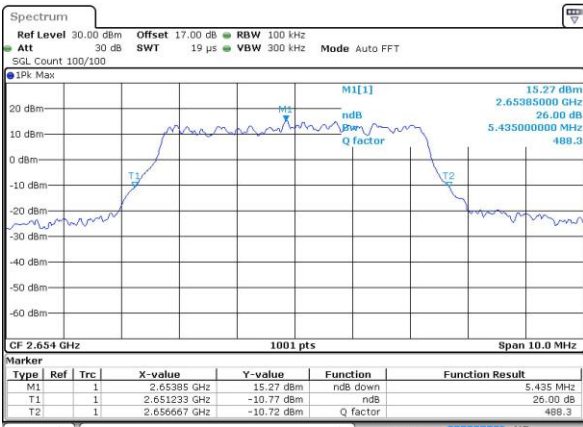
Date: 13 DEC 2018 18:00:37

Lowest Channel / 5MHz / 16QAM



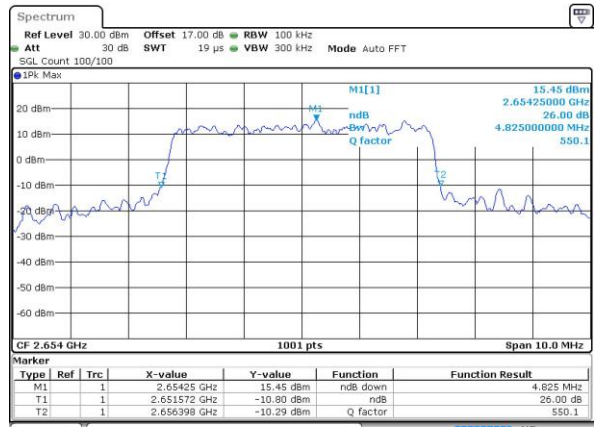
Date: 13 DEC 2018 18:00:49

Middle Channel / 5MHz / QPSK



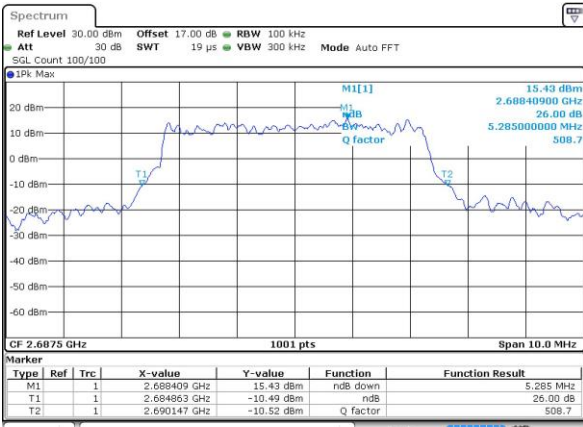
Date: 13 DEC 2018 18:01:28

Middle Channel / 5MHz / 16QAM



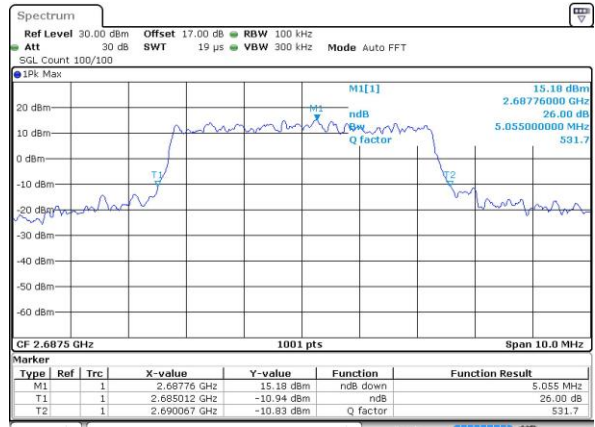
Date: 13 DEC 2018 18:01:39

Highest Channel / 5MHz / QPSK



Date: 13 DEC 2018 18:02:16

Highest Channel / 5MHz / 16QAM

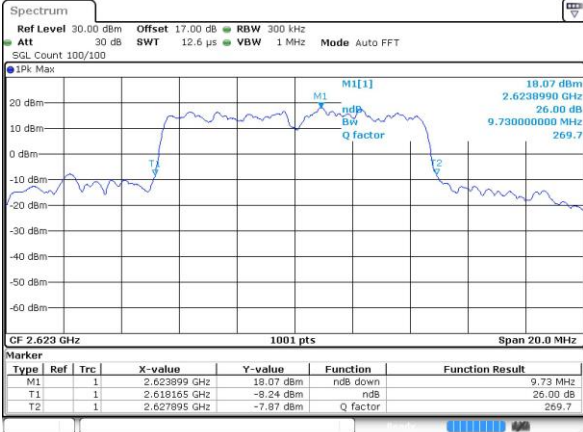


Date: 13 DEC 2018 18:02:28



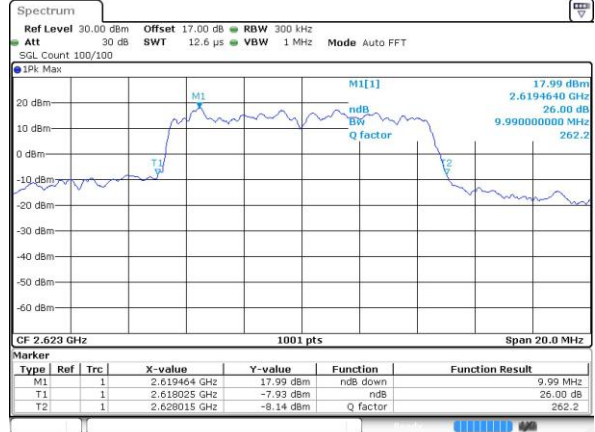
LTE Band 41

Lowest Channel / 10MHz / QPSK



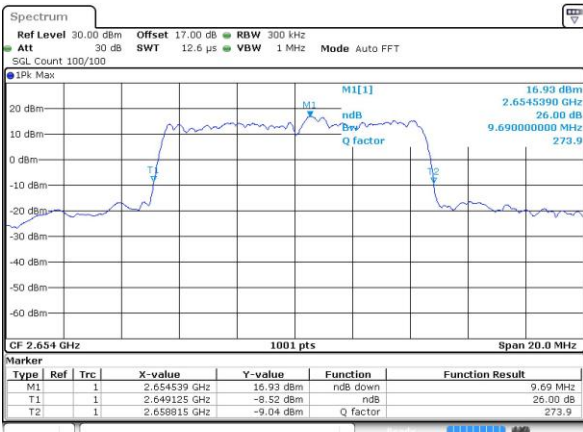
Date: 13 DEC 2018 18:03:06

Lowest Channel / 10MHz / 16QAM



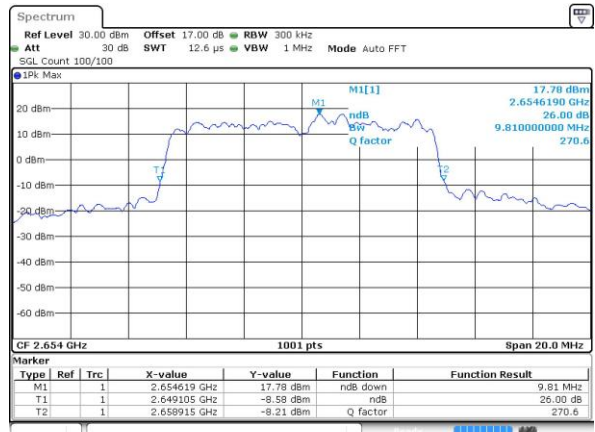
Date: 13 DEC 2018 18:03:18

Middle Channel / 10MHz / QPSK



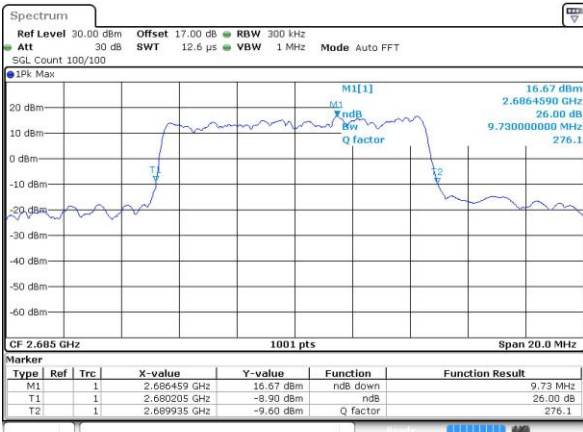
Date: 13 DEC 2018 18:03:56

Middle Channel / 10MHz / 16QAM



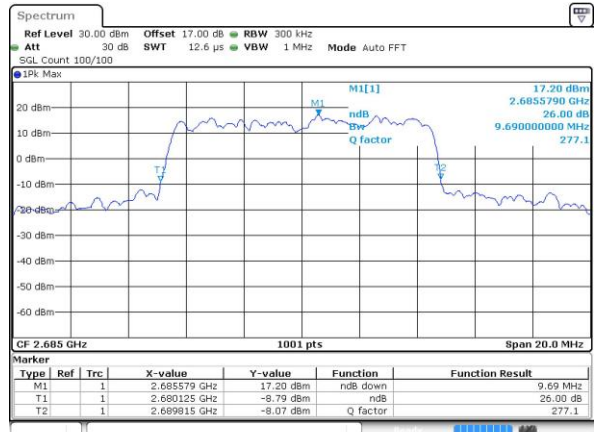
Date: 13 DEC 2018 18:04:08

Highest Channel / 10MHz / QPSK



Date: 13 DEC 2018 18:04:45

Highest Channel / 10MHz / 16QAM

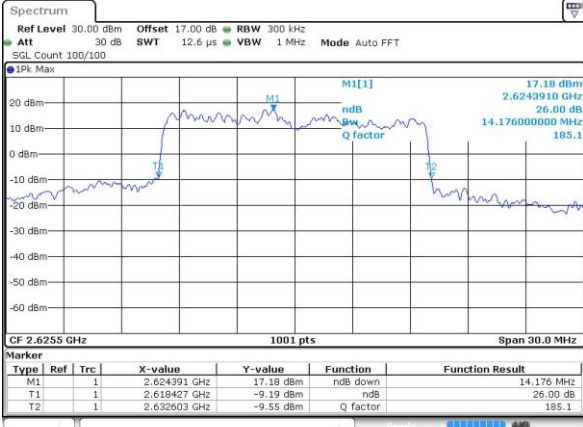


Date: 13 DEC 2018 18:04:59



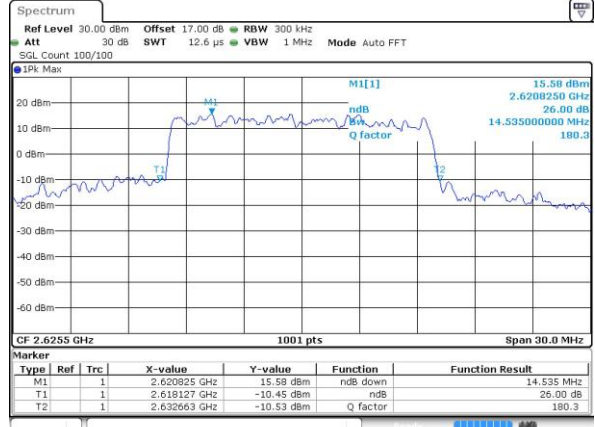
LTE Band 41

Lowest Channel / 15MHz / QPSK



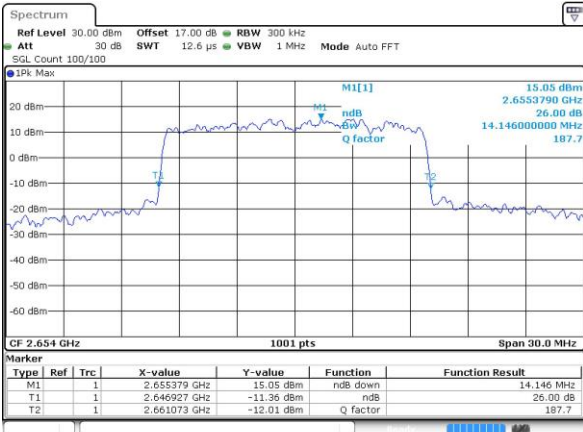
Date: 13 DEC 2018 18:19:15

Lowest Channel / 15MHz / 16QAM



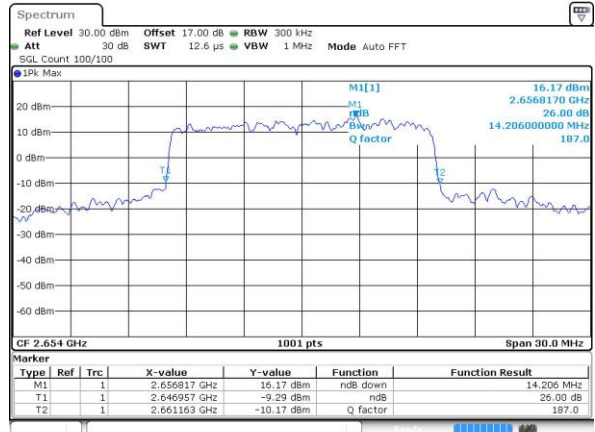
Date: 13 DEC 2018 18:19:41

Middle Channel / 15MHz / QPSK



Date: 13 DEC 2018 18:20:44

Middle Channel / 15MHz / 16QAM



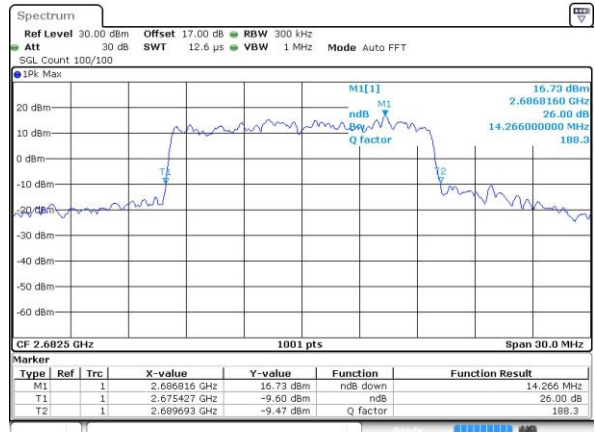
Date: 13 DEC 2018 18:21:04

Highest Channel / 15MHz / QPSK



Date: 13 DEC 2018 18:21:58

Highest Channel / 15MHz / 16QAM

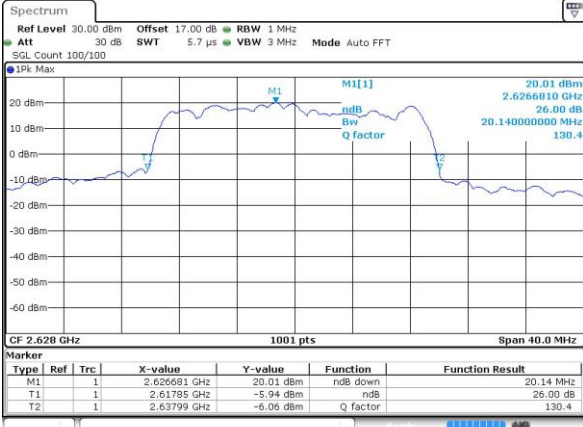


Date: 13 DEC 2018 18:22:12



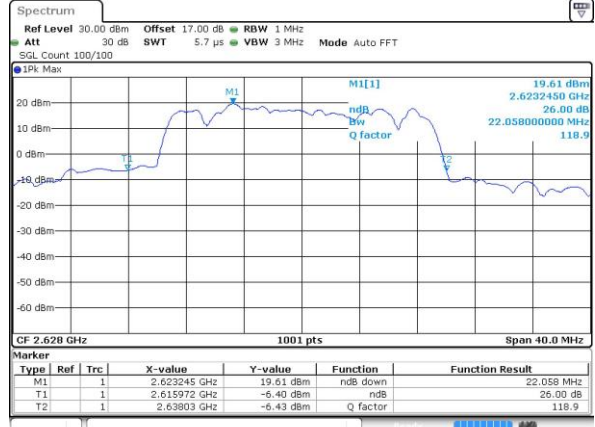
LTE Band 41

Lowest Channel / 20MHz / QPSK



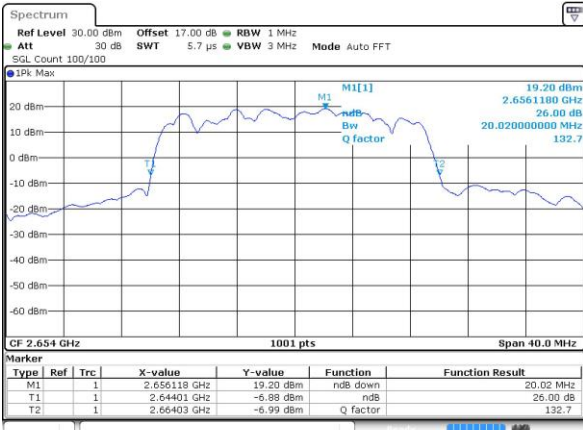
Date: 13 DEC 2018 18:23:14

Lowest Channel / 20MHz / 16QAM



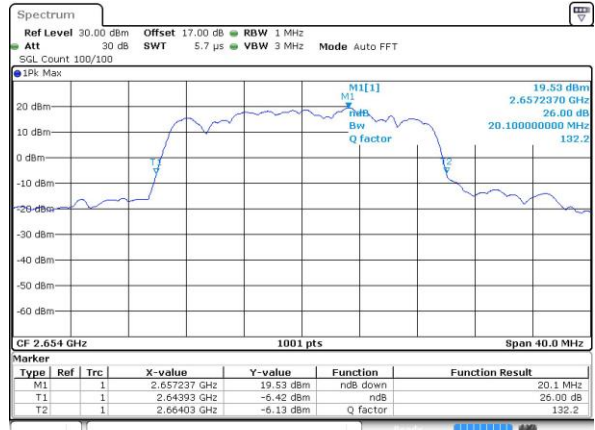
Date: 13 DEC 2018 18:23:32

Middle Channel / 20MHz / QPSK



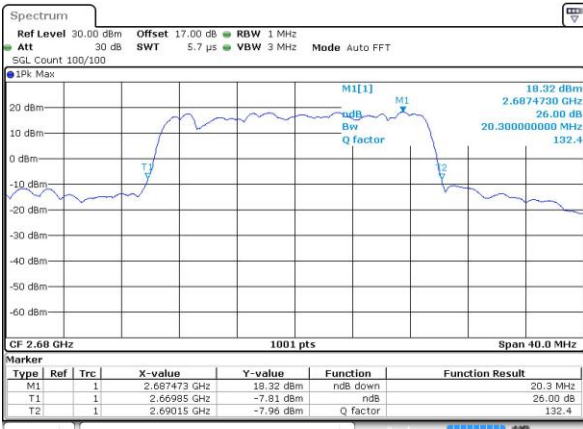
Date: 13 DEC 2018 18:24:30

Middle Channel / 20MHz / 16QAM



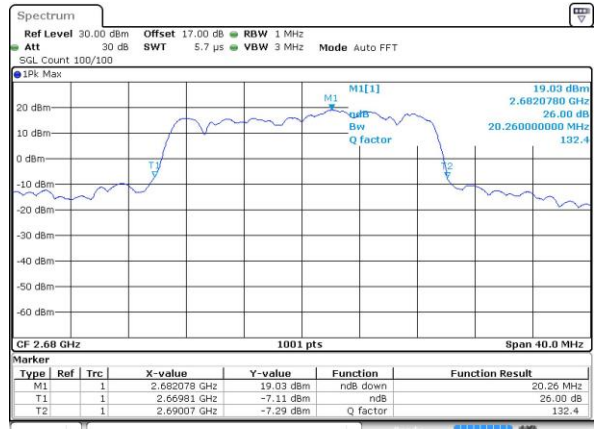
Date: 13 DEC 2018 18:24:39

Highest Channel / 20MHz / QPSK



Date: 13 DEC 2018 18:26:35

Highest Channel / 20MHz / 16QAM



Date: 13 DEC 2018 18:27:08



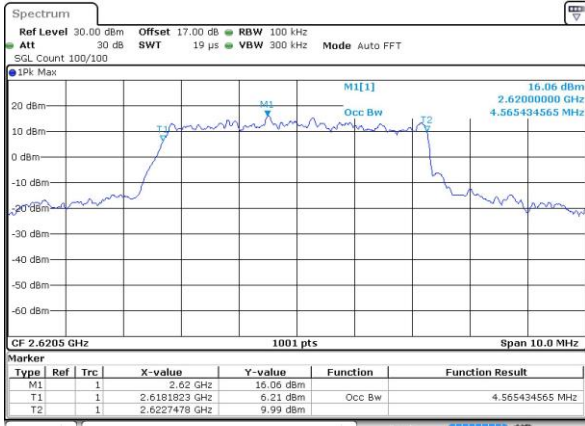
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.57	4.52	9.03	9.05	13.46	13.46	18.50	18.34
Middle CH	-	-	-	-	4.53	4.51	8.99	9.05	13.43	13.43	18.34	18.38
Highest CH	-	-	-	-	4.46	4.49	8.99	9.01	13.43	13.43	18.34	18.34



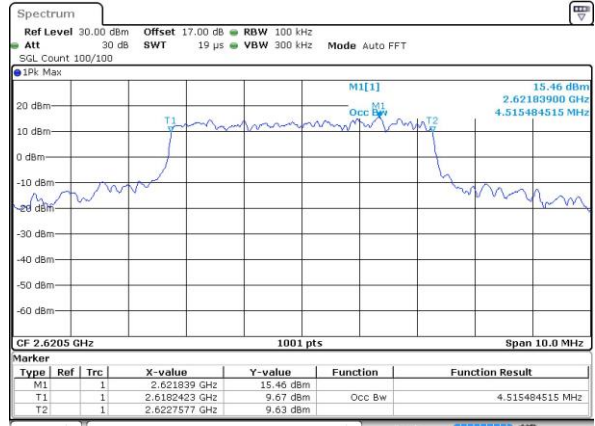
LTE Band 41

Lowest Channel / 5MHz / QPSK



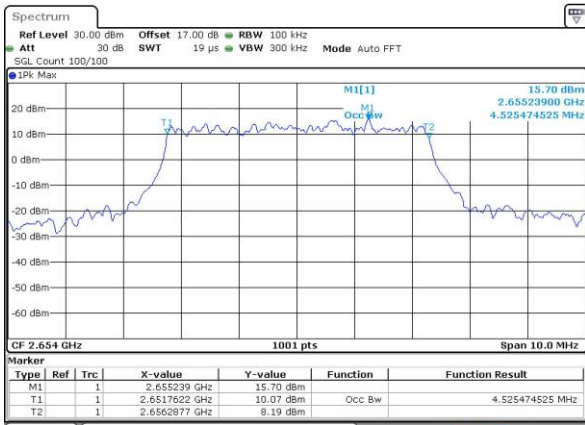
Date: 13 DEC 2018 18:00:12

Lowest Channel / 5MHz / 16QAM



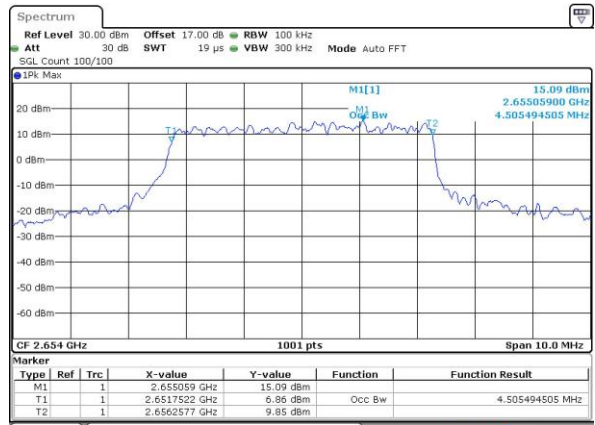
Date: 13 DEC 2018 18:00:25

Middle Channel / 5MHz / QPSK



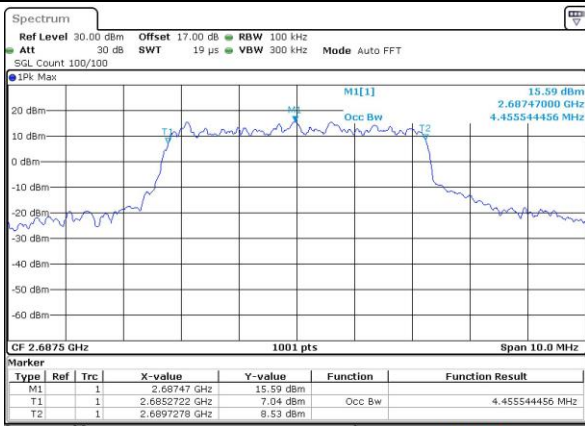
Date: 13 DEC 2018 18:01:02

Middle Channel / 5MHz / 16QAM



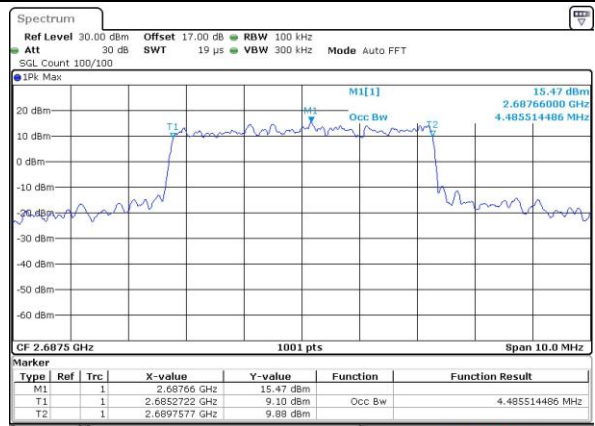
Date: 13 DEC 2018 18:01:14

Highest Channel / 5MHz / QPSK



Date: 13 DEC 2018 18:01:51

Highest Channel / 5MHz / 16QAM

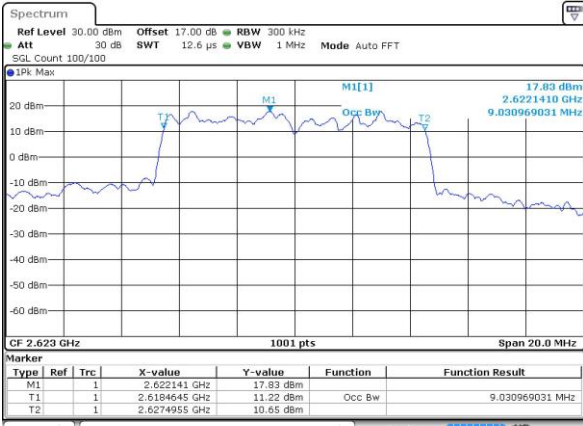


Date: 13 DEC 2018 18:02:03



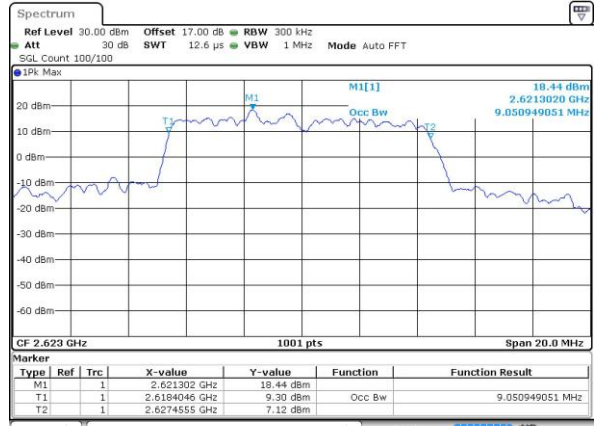
LTE Band 41

Lowest Channel / 10MHz / QPSK



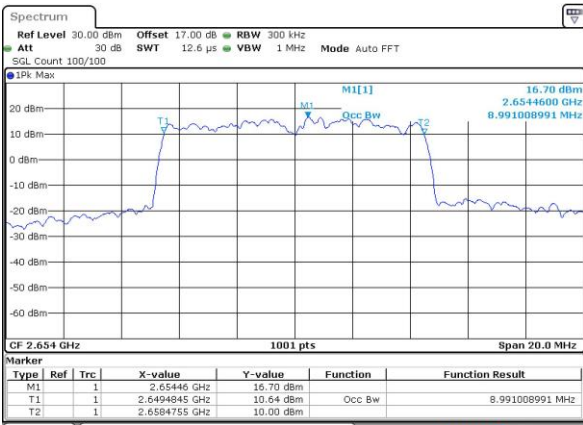
Date: 13 DEC 2018 18:02:41

Lowest Channel / 10MHz / 16QAM



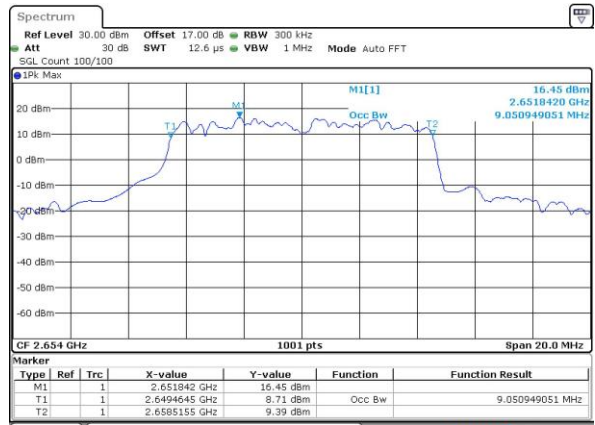
Date: 13 DEC 2018 18:02:54

Middle Channel / 10MHz / QPSK



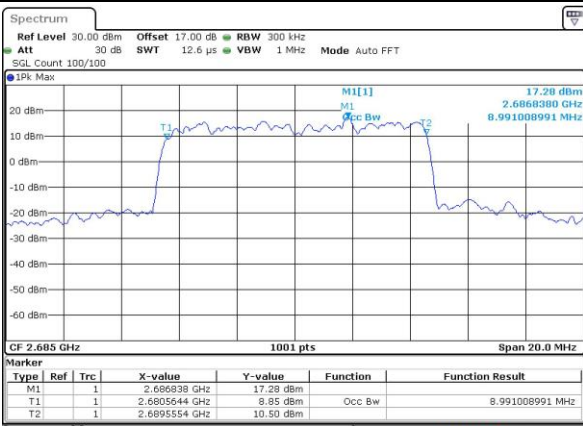
Date: 13 DEC 2018 18:03:31

Middle Channel / 10MHz / 16QAM



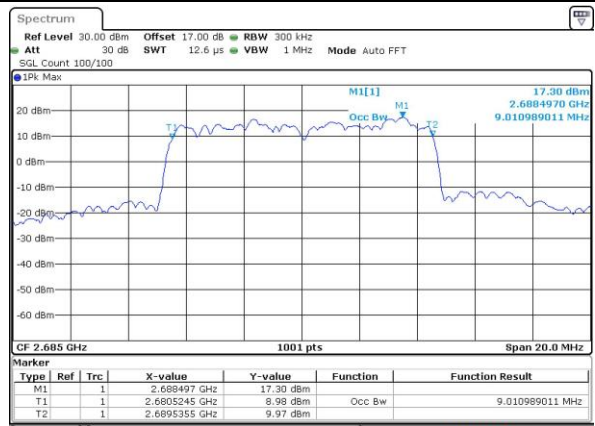
Date: 13 DEC 2018 18:03:43

Highest Channel / 10MHz / QPSK



Date: 13 DEC 2018 18:04:20

Highest Channel / 10MHz / 16QAM

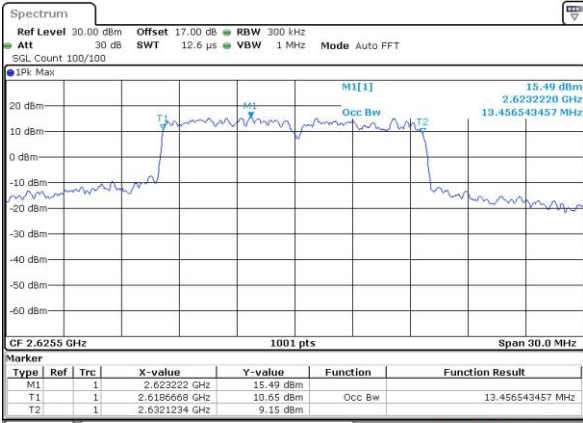


Date: 13 DEC 2018 18:04:33



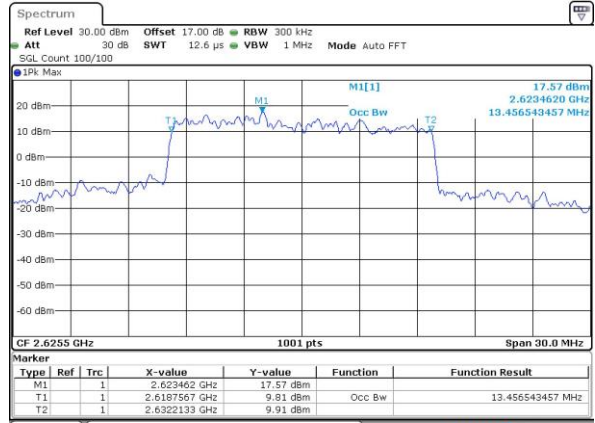
LTE Band 41

Lowest Channel / 15MHz / QPSK



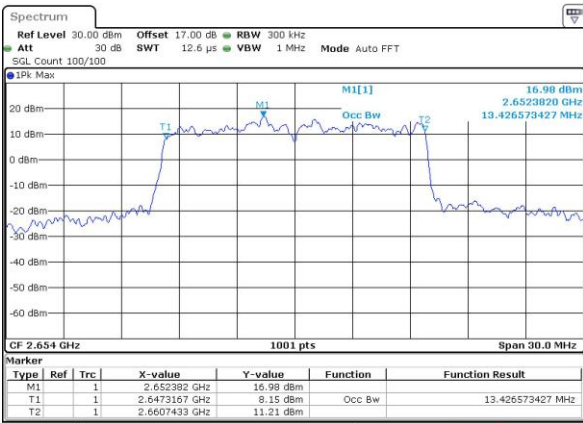
Date: 13 DEC 2018 18:05:12

Lowest Channel / 15MHz / 16QAM



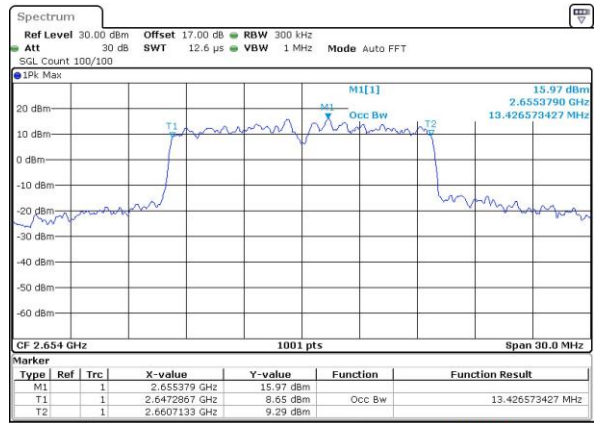
Date: 13 DEC 2018 18:19:00

Middle Channel / 15MHz / QPSK



Date: 13 DEC 2018 18:37:17

Middle Channel / 15MHz / 16QAM



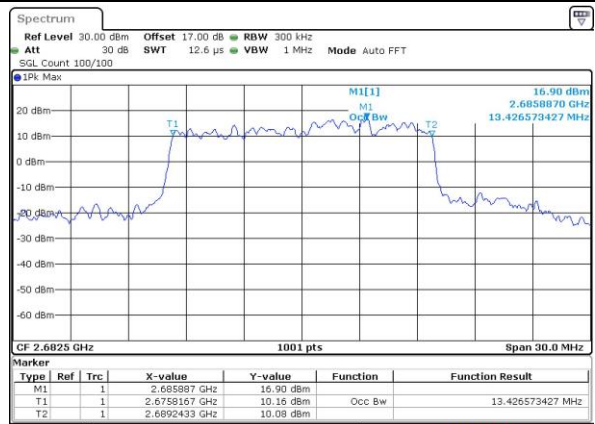
Date: 13 DEC 2018 18:20:16

Highest Channel / 15MHz / QPSK



Date: 13 DEC 2018 18:21:27

Highest Channel / 15MHz / 16QAM

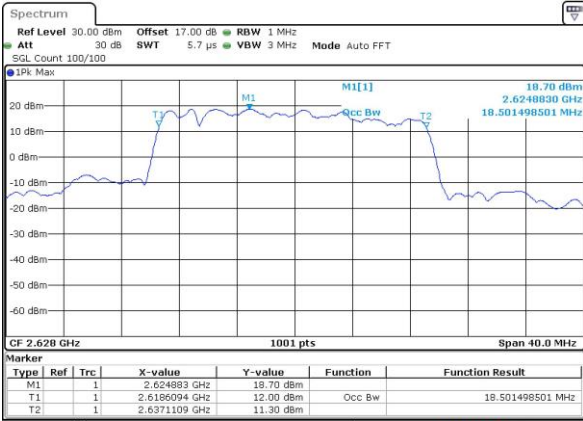


Date: 13 DEC 2018 18:21:39



LTE Band 41

Lowest Channel / 20MHz / QPSK



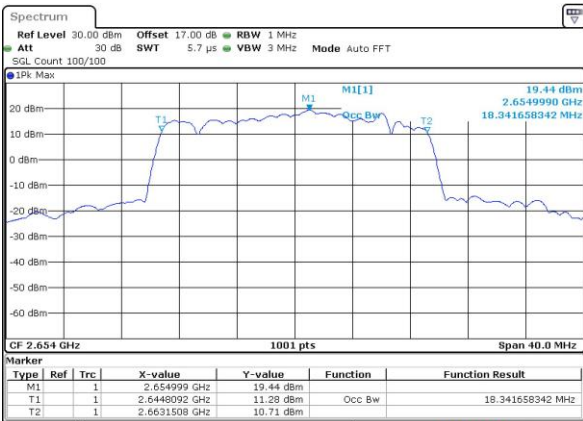
Date: 13 DEC 2018 18:22:51

Lowest Channel / 20MHz / 16QAM



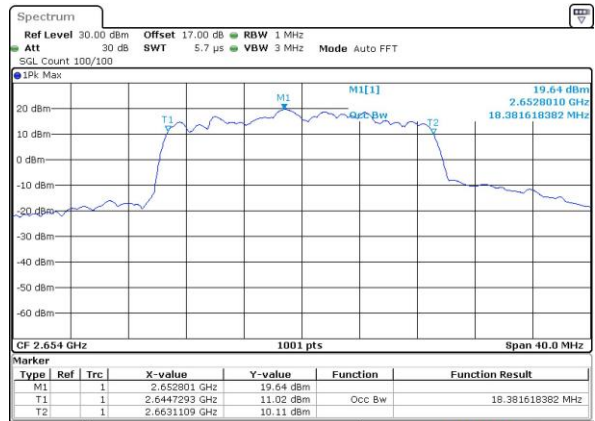
Date: 13 DEC 2018 18:23:01

Middle Channel / 20MHz / QPSK



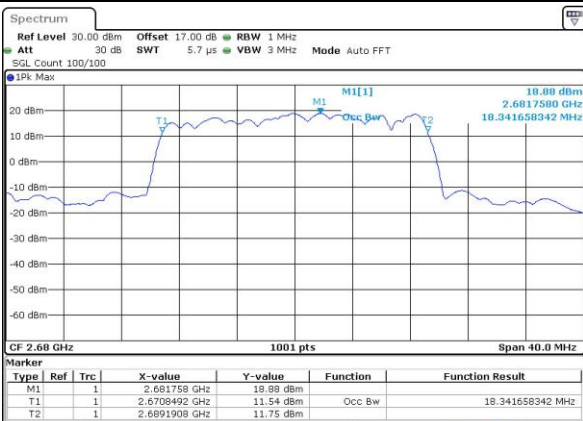
Date: 13 DEC 2018 18:24:03

Middle Channel / 20MHz / 16QAM



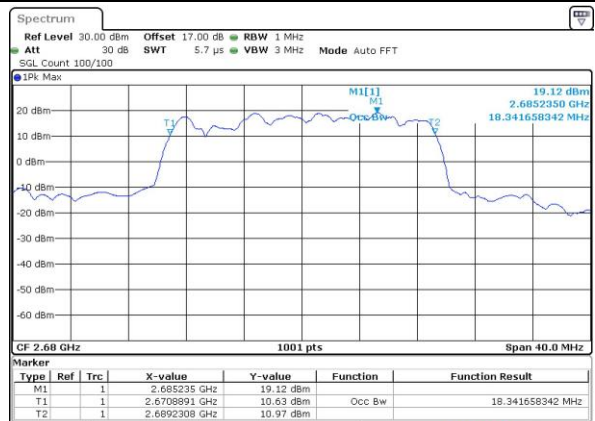
Date: 13 DEC 2018 18:24:16

Highest Channel / 20MHz / QPSK



Date: 13 DEC 2018 18:25:57

Highest Channel / 20MHz / 16QAM



Date: 13 DEC 2018 18:26:13



Conducted Band Edge



LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



Date: 24.DEC.2018 23:23:48

Highest Band Edge / 1 RB



Date: 24.DEC.2018 23:25:01

Lowest Band Edge / Full RB



Date: 13.DEC.2018 21:08:16

Highest Band Edge / Full RB

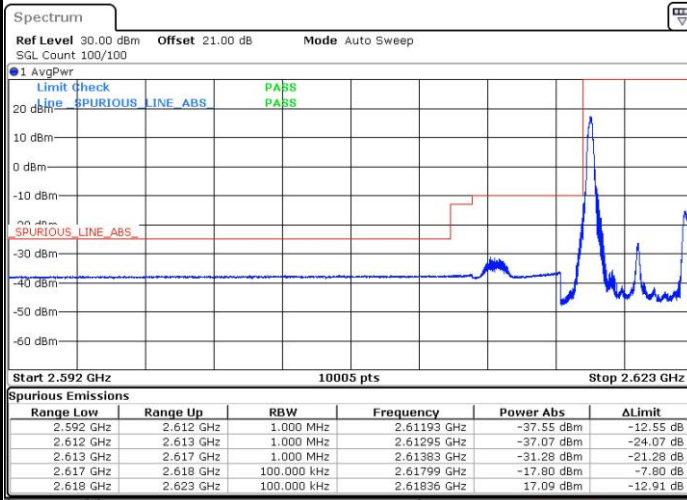


Date: 13.DEC.2018 21:12:01



LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



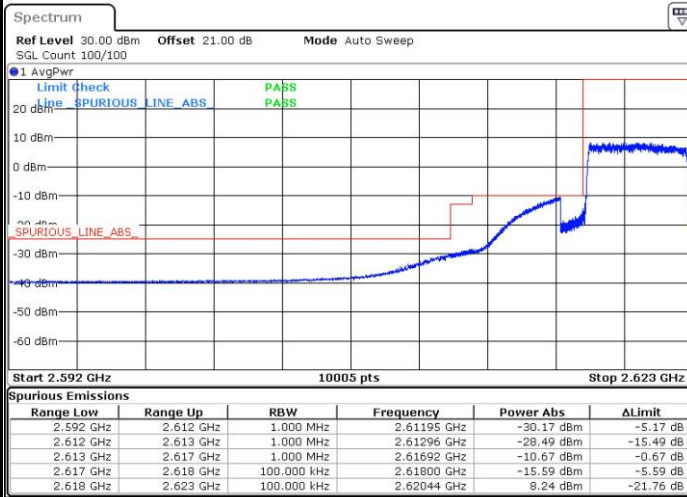
Date: 24.DEC.2018 23:22:57

Highest Band Edge / 1 RB



Date: 24.DEC.2018 23:24:37

Lowest Band Edge / Full RB



Date: 13.DEC.2018 21:09:12

Highest Band Edge / Full RB



Date: 13.DEC.2018 21:53:52