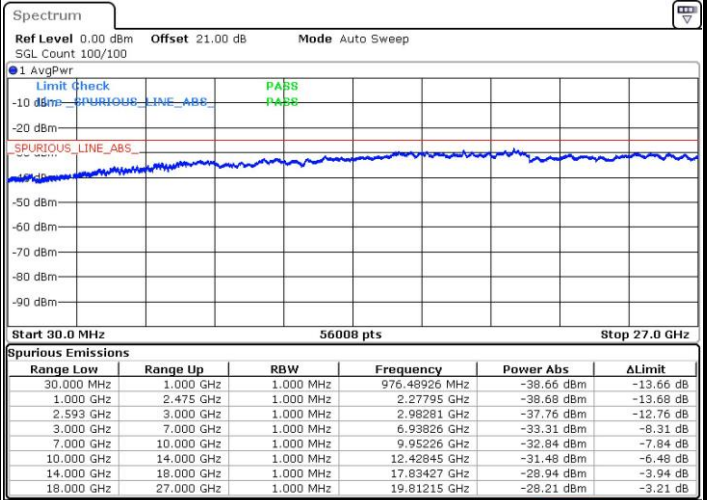
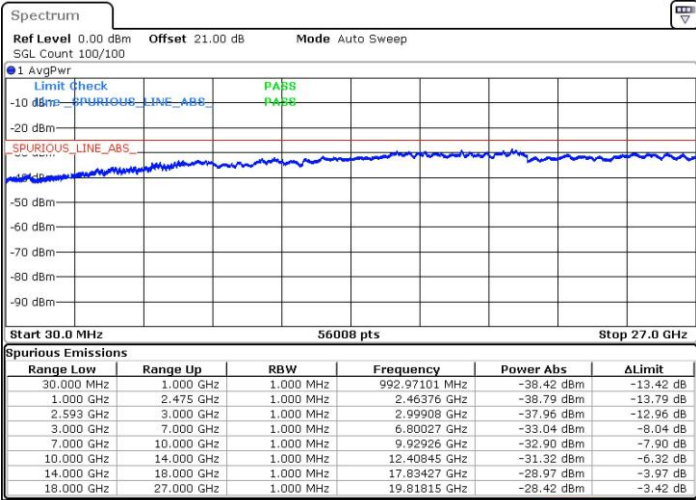




LTE Band 41 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

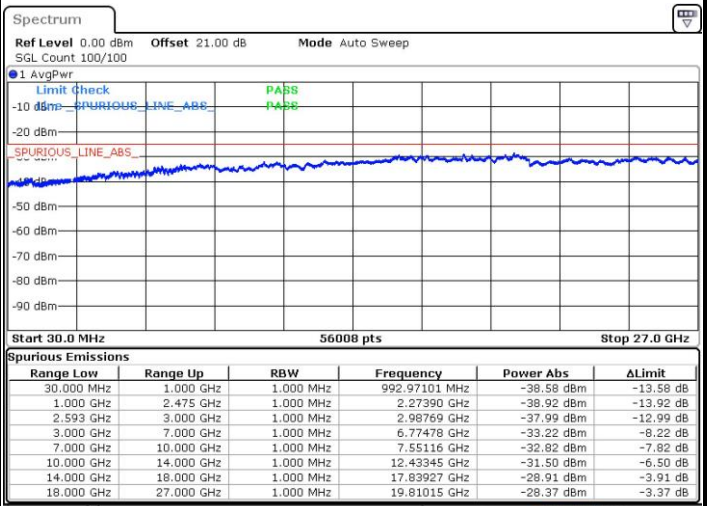
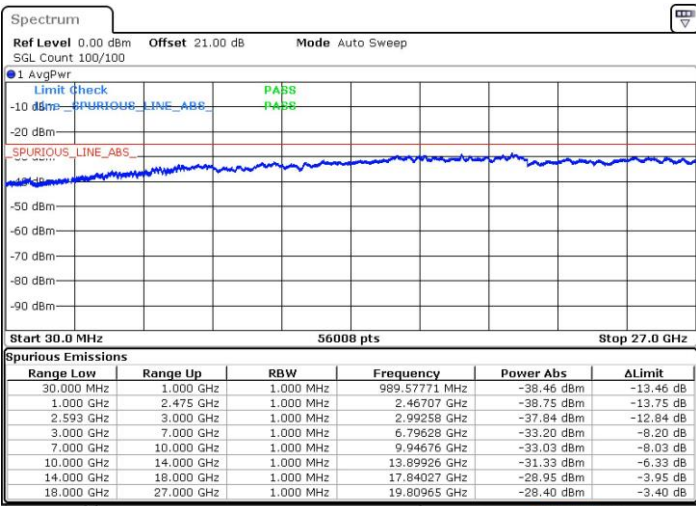


Date: 12 DEC 2018 23:10:07

Date: 12 DEC 2018 23:10:49

Middle Channel / QPSK

Middle Channel / 16QAM



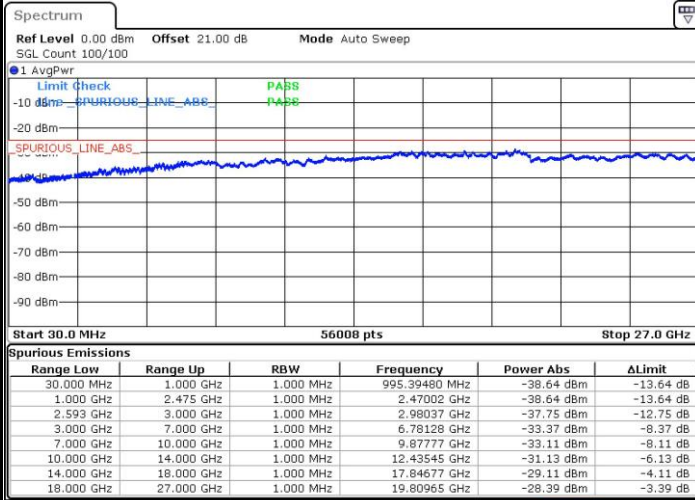
Date: 12 DEC 2018 23:11:32

Date: 12 DEC 2018 23:12:14



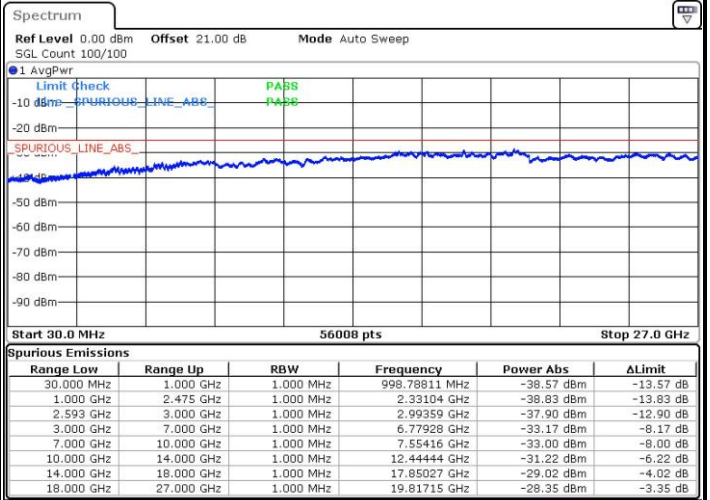
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 12 DEC 2018 23:12:57

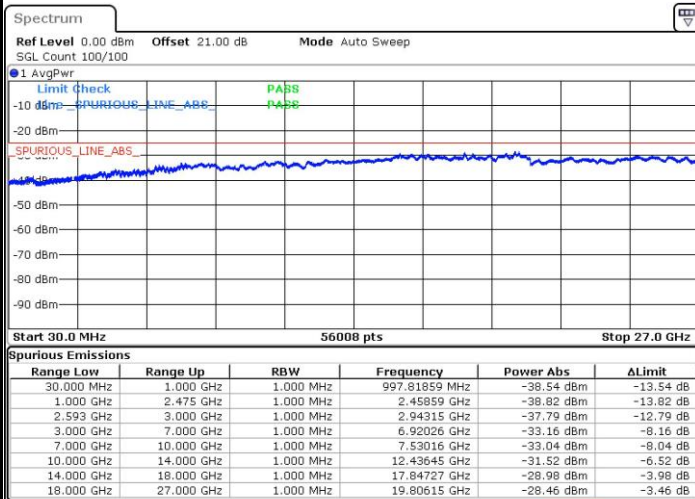
Highest Channel / 16QAM



Date: 12 DEC 2018 23:13:39

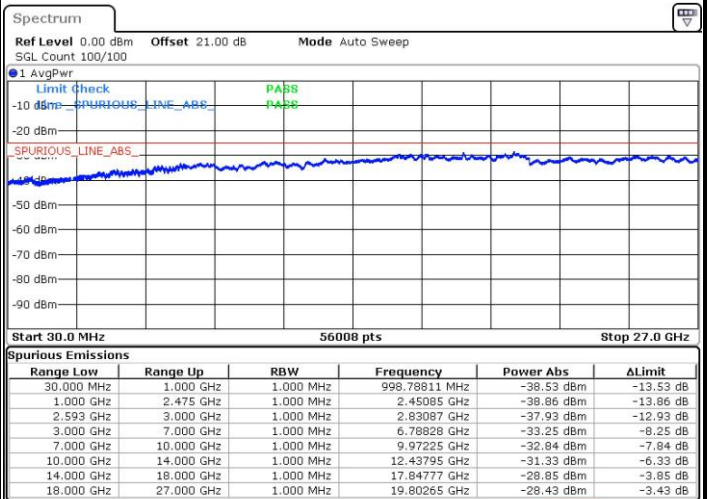
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 12 DEC 2018 23:14:22

Lowest Channel / 16QAM



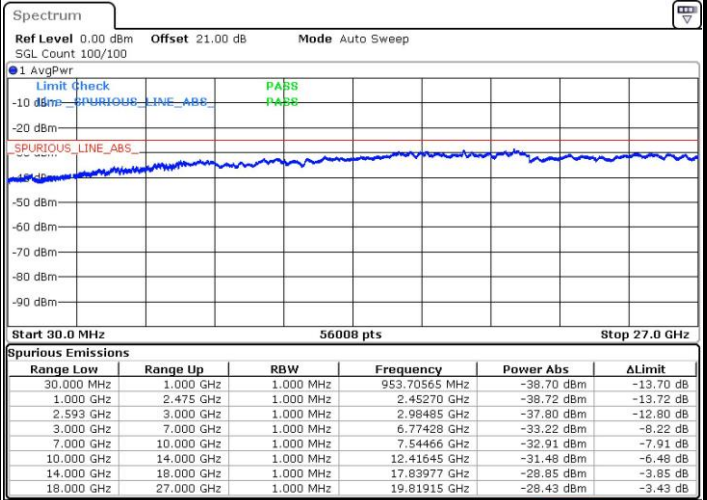
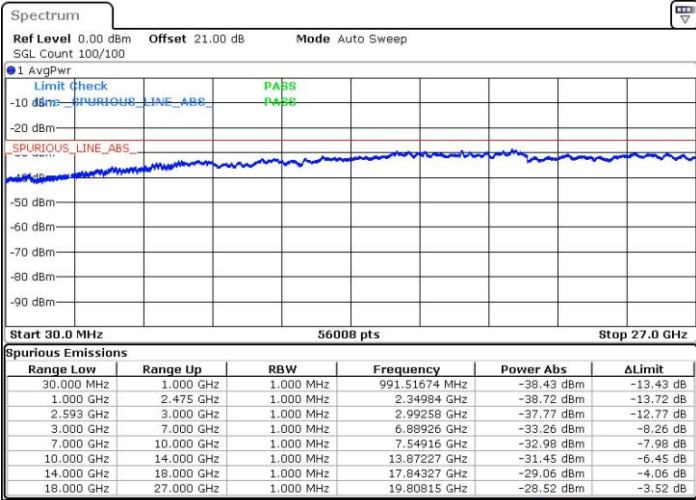
Date: 12 DEC 2018 23:15:05



LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

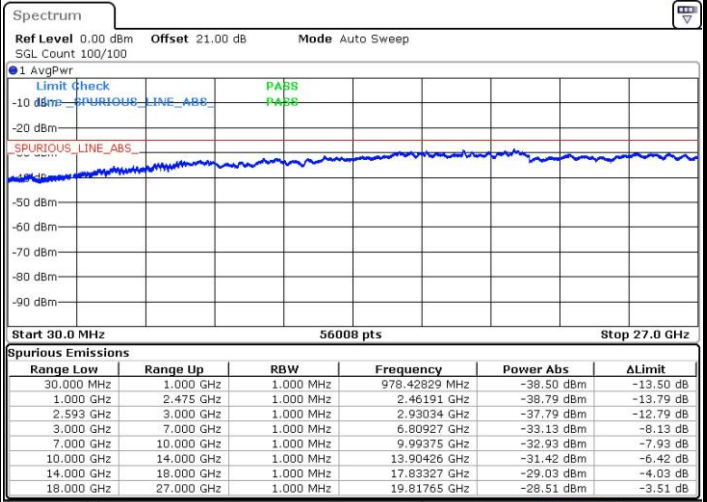
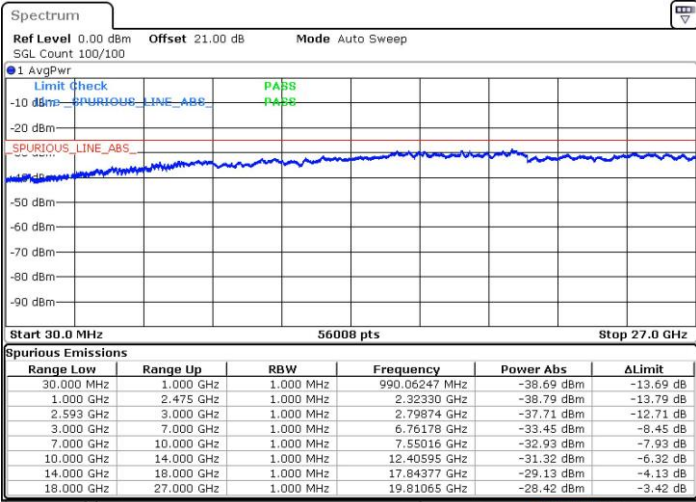


Date: 12 DEC 2018 23:15:47

Date: 12 DEC 2018 23:16:30

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 12 DEC 2018 23:17:12

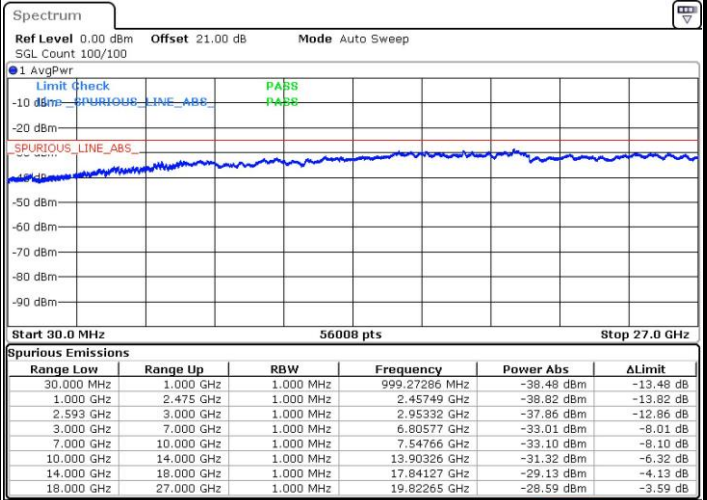
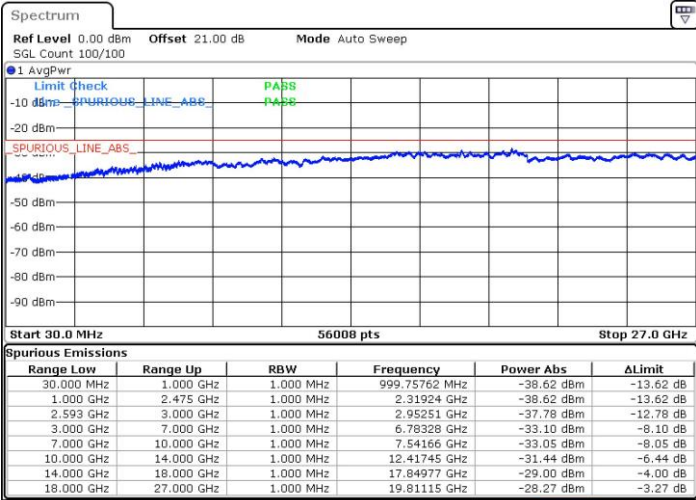
Date: 12 DEC 2018 23:17:55



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

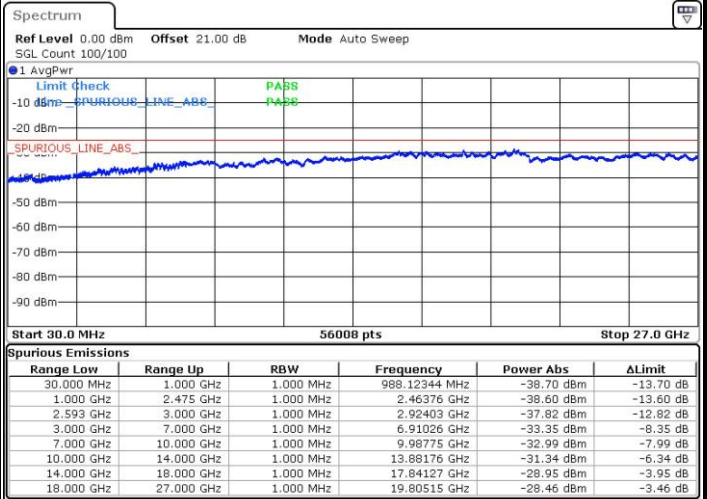
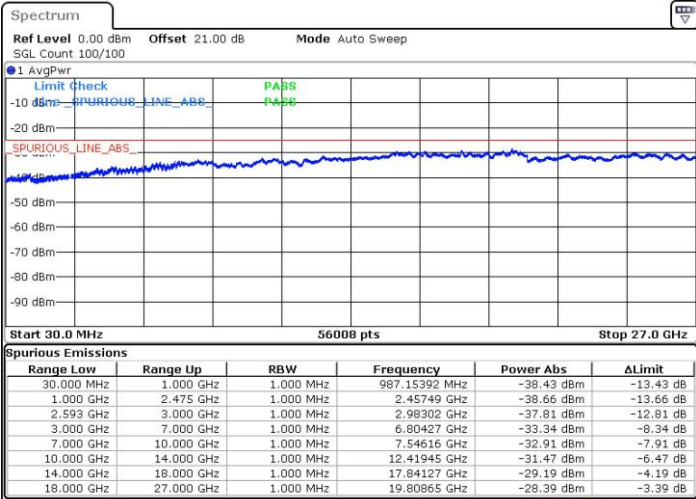


Date: 12 DEC 2018 23:18:37

Date: 12 DEC 2018 23:19:19

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 12 DEC 2018 23:20:02

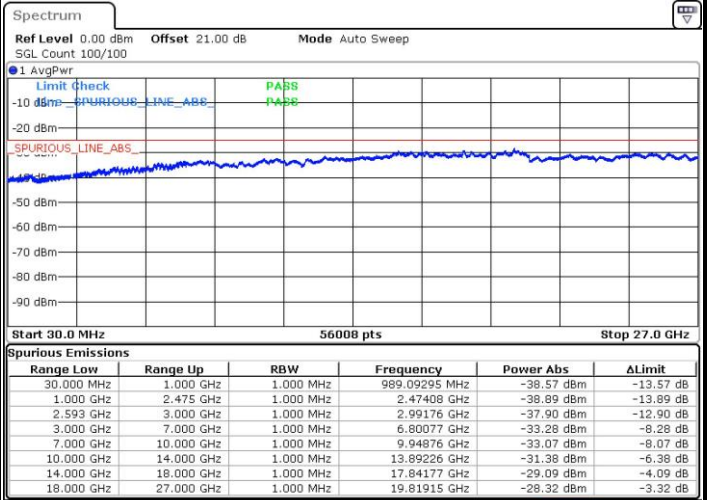
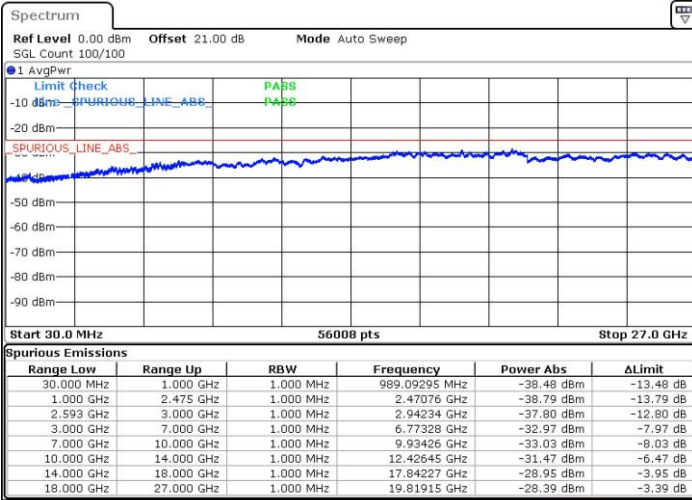
Date: 12 DEC 2018 23:20:44



LTE Band 41 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



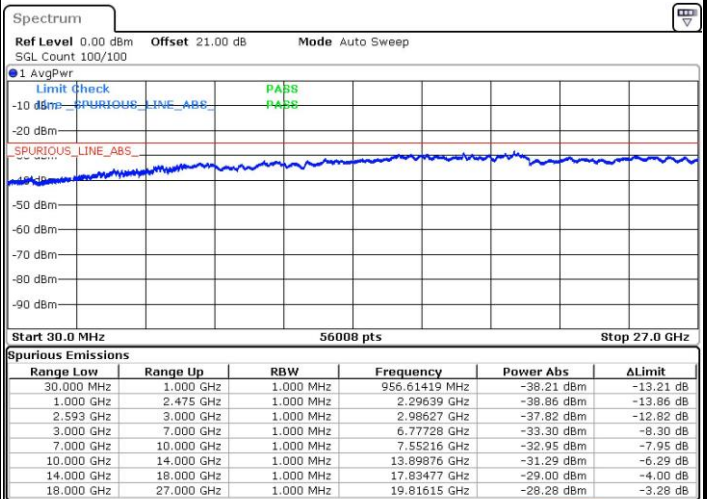
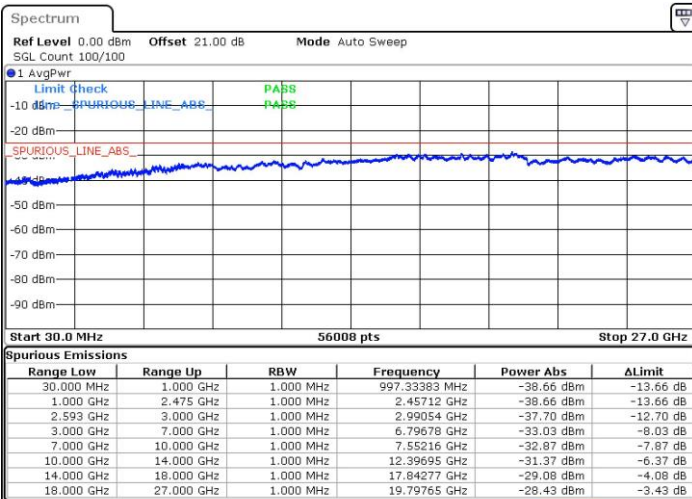
Date: 12 DEC 2018 23:21:27

Date: 12 DEC 2018 23:22:10

LTE Band 41 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 12 DEC 2018 23:22:52

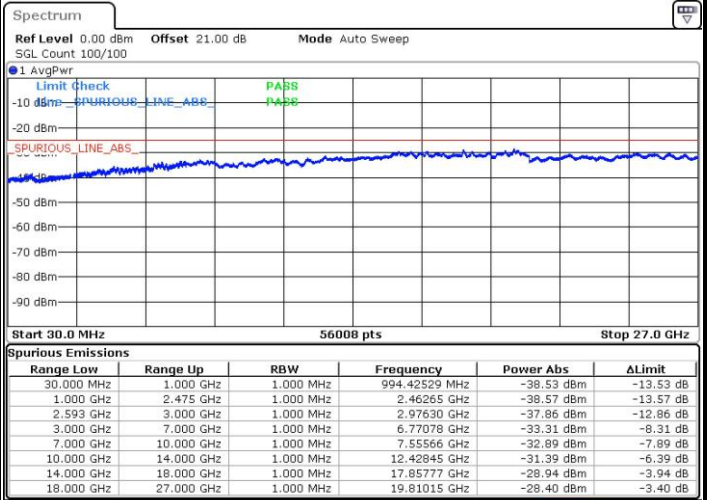
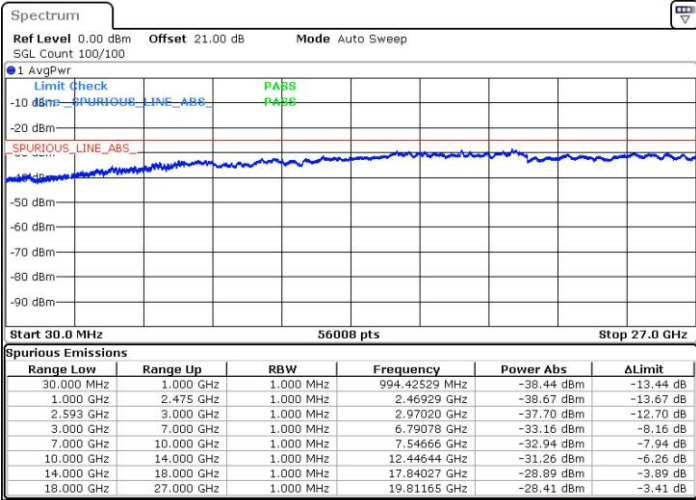
Date: 12 DEC 2018 23:23:35



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

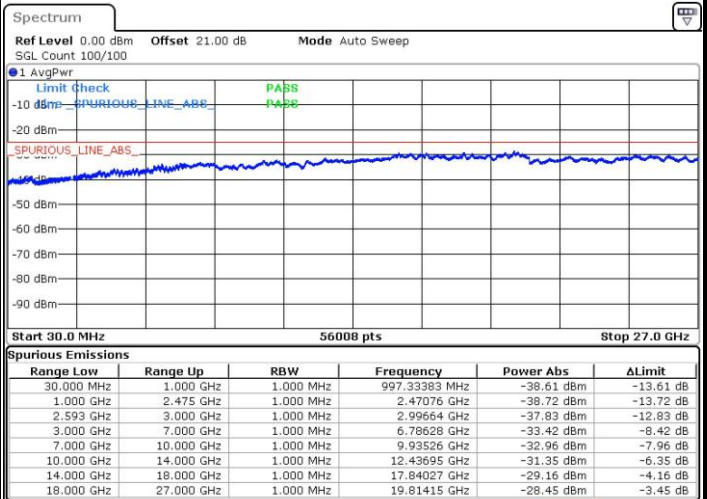
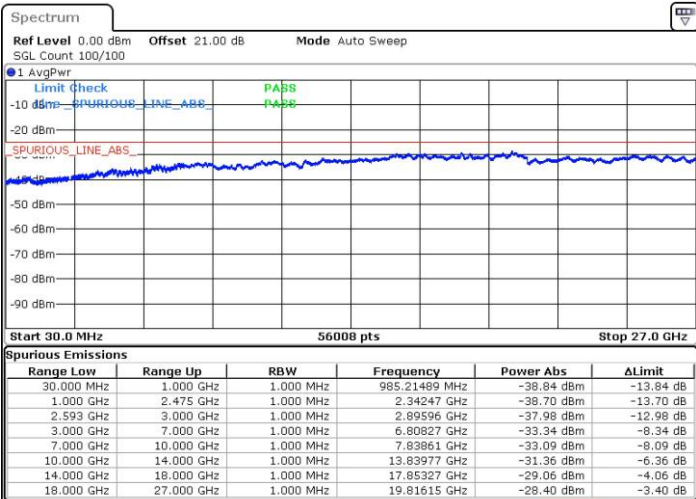


Date: 12 DEC 2018 23:24:17

Date: 12 DEC 2018 23:25:00

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 12 DEC 2018 23:25:42

Date: 12 DEC 2018 23:26:25



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	0.0003	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0027	

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 Low Band Chain 2>

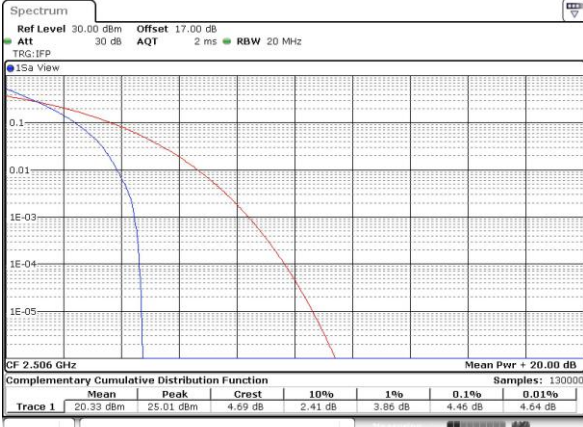
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.46	4.64	5.16	5.39	PASS
Middle CH	4.84	4.87	5.10	5.62	
Highest CH	4.32	4.72	4.58	5.36	



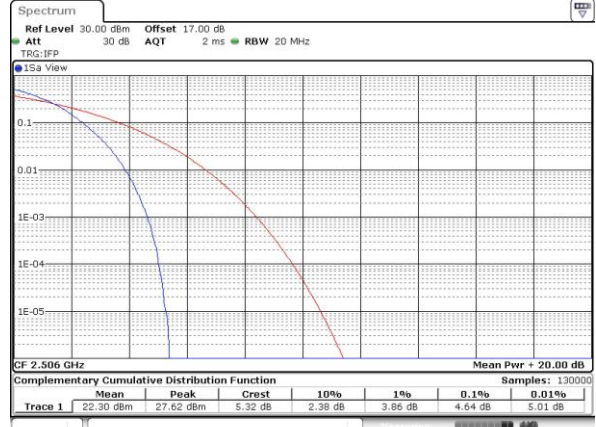
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



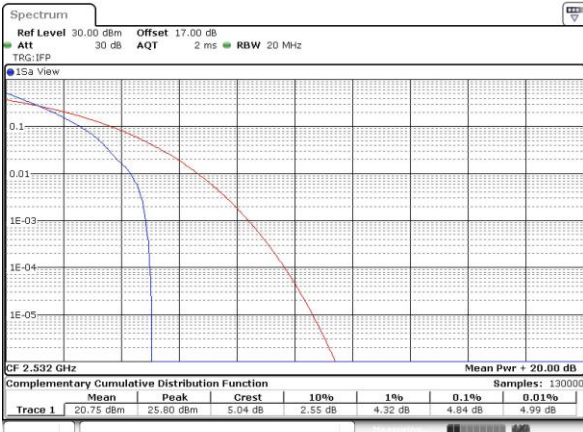
Date: 14 DEC 2018 21:51:35

Lowest Channel / Full RB



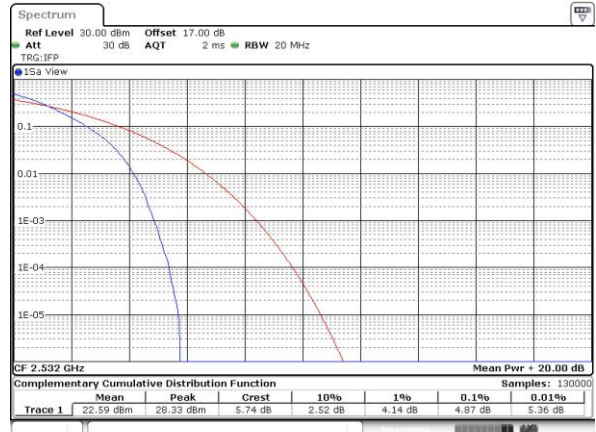
Date: 14 DEC 2018 21:51:09

Middle Channel / 1RB



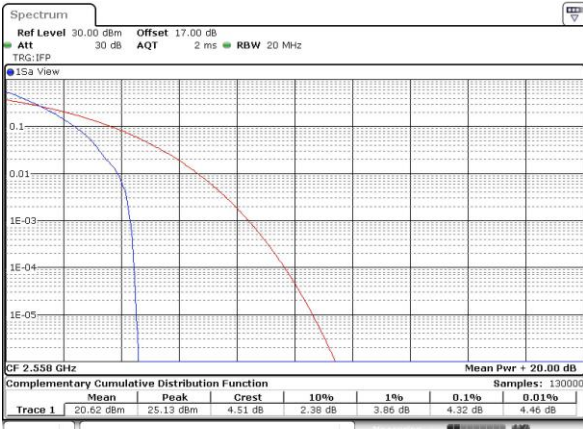
Date: 14 DEC 2018 21:54:35

Middle Channel / Full RB



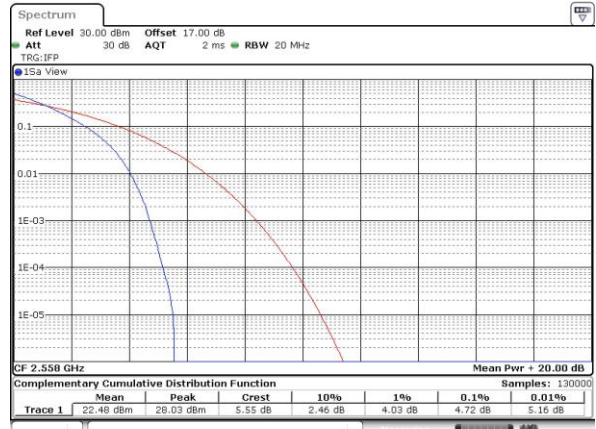
Date: 14 DEC 2018 21:54:13

Highest Channel / 1RB



Date: 14 DEC 2018 21:55:43

Highest Channel / Full RB

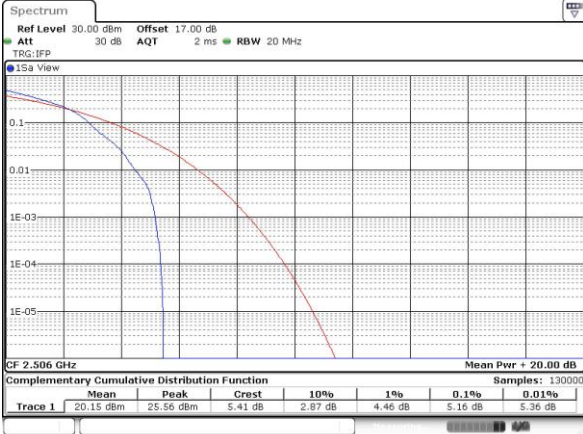


Date: 14 DEC 2018 21:56:23



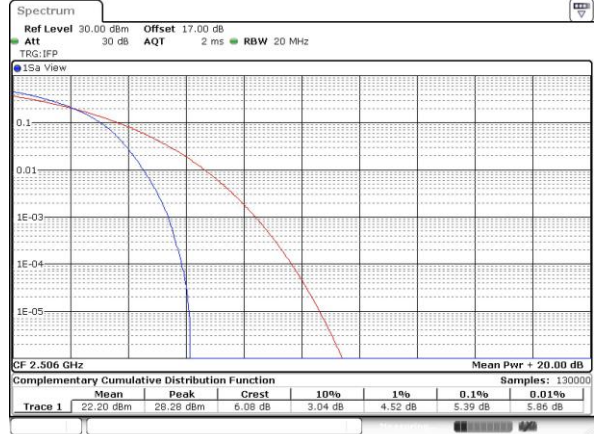
LTE Band 41 / 20MHz / 16QAM

Lowest Channel / 1RB



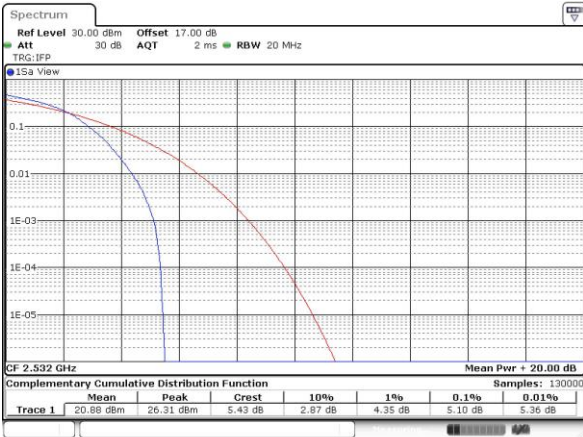
Date: 14.DEC.2018 21:51:55

Lowest Channel / Full RB



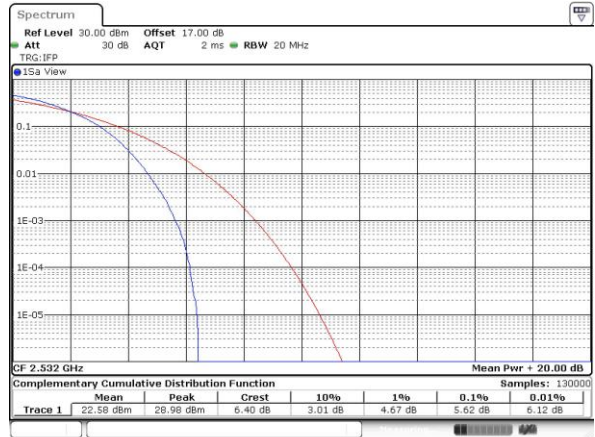
Date: 14.DEC.2018 21:49:51

Middle Channel / 1RB



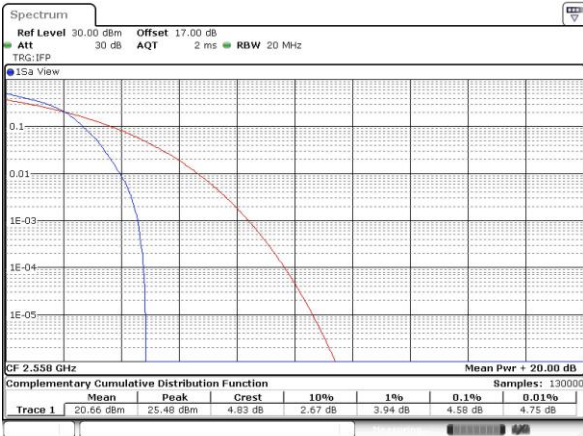
Date: 14.DEC.2018 21:54:57

Middle Channel / Full RB



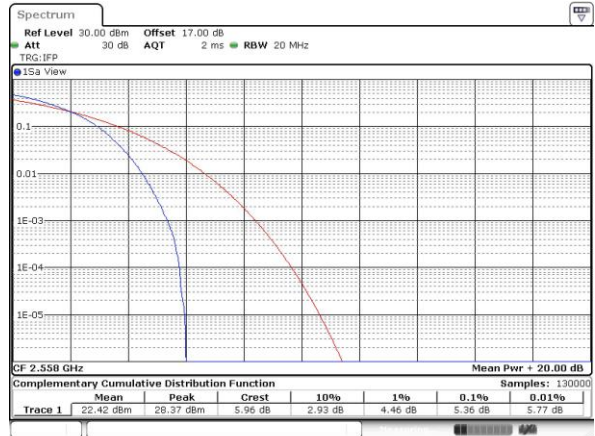
Date: 14.DEC.2018 21:53:53

Highest Channel / 1RB



Date: 14.DEC.2018 21:55:27

Highest Channel / Full RB



Date: 14.DEC.2018 21:56:55



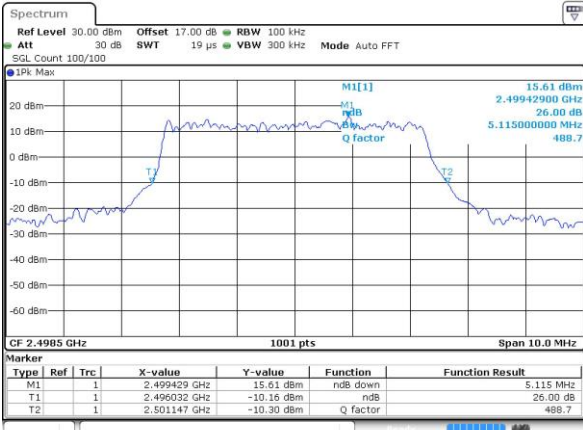
26dB Bandwidth

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	-	-	-	-	5.12	5.09	9.75	9.63	14.12	14.42	20.14	19.94
Middle CH	-	-	-	-	4.92	4.96	10.03	9.75	14.33	14.51	20.02	20.10
Highest CH	-	-	-	-	4.89	4.79	9.67	9.85	14.24	14.48	20.34	20.18



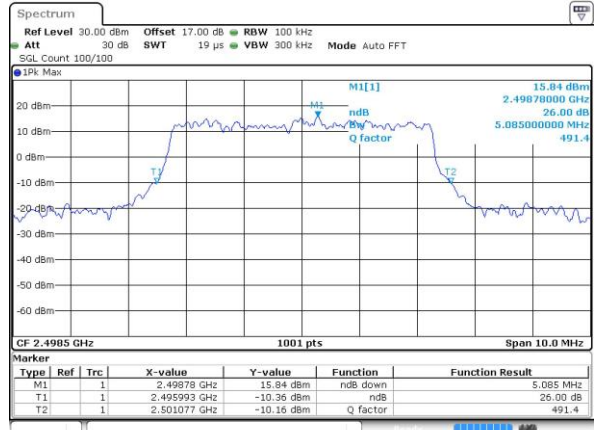
LTE Band 41

Lowest Channel / 5MHz / QPSK



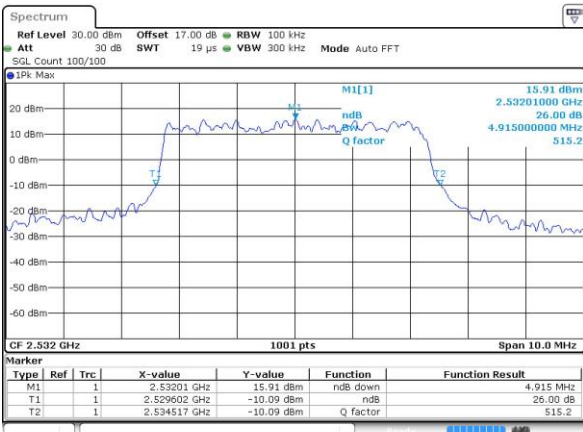
Date: 14 DEC 2018 20:56:00

Lowest Channel / 5MHz / 16QAM



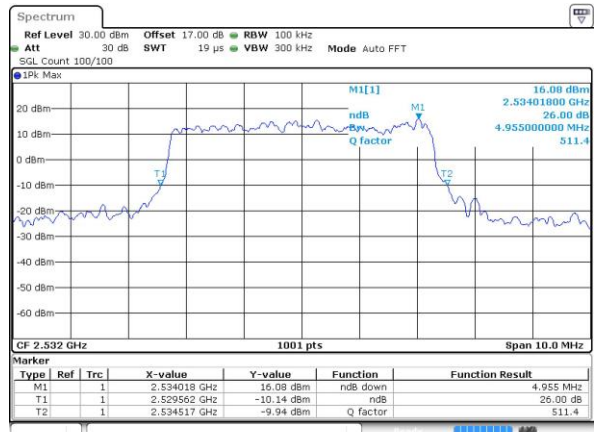
Date: 14 DEC 2018 20:56:13

Middle Channel / 5MHz / QPSK



Date: 14 DEC 2018 20:56:50

Middle Channel / 5MHz / 16QAM



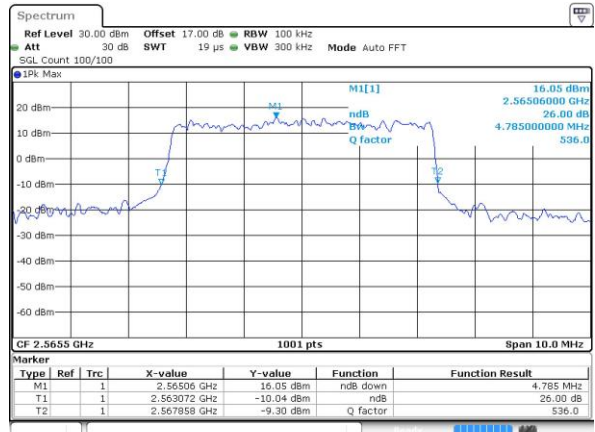
Date: 14 DEC 2018 20:57:03

Highest Channel / 5MHz / QPSK



Date: 14 DEC 2018 20:57:40

Highest Channel / 5MHz / 16QAM

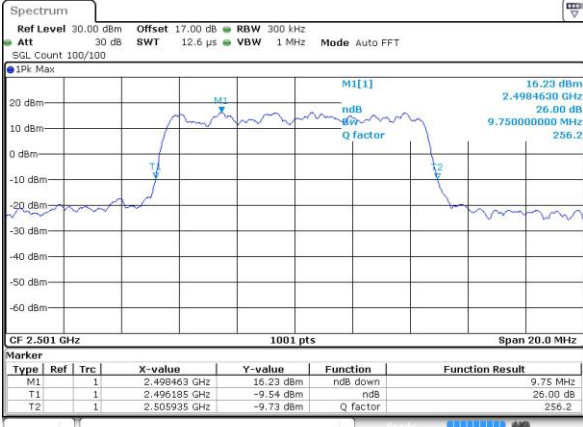


Date: 14 DEC 2018 20:57:53



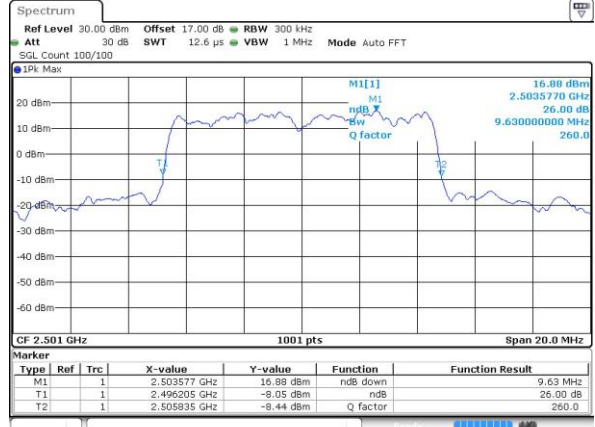
LTE Band 41

Lowest Channel / 10MHz / QPSK



Date: 14 DEC 2018 20:58:31

Lowest Channel / 10MHz / 16QAM



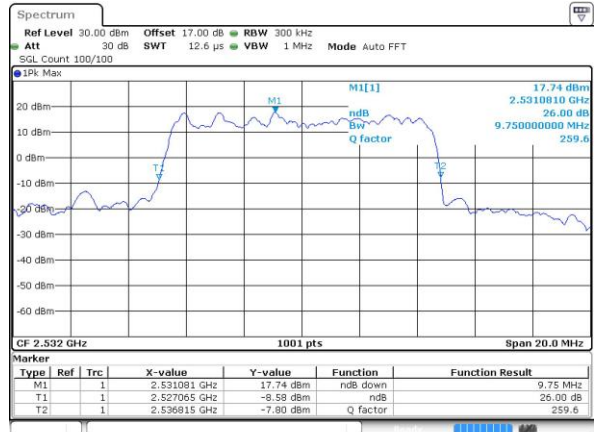
Date: 14 DEC 2018 20:58:43

Middle Channel / 10MHz / QPSK



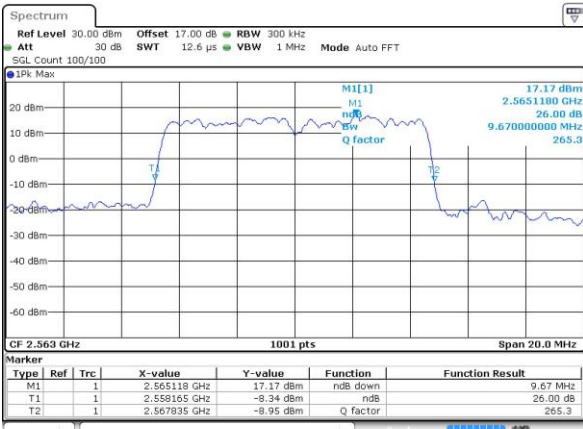
Date: 14 DEC 2018 20:59:21

Middle Channel / 10MHz / 16QAM



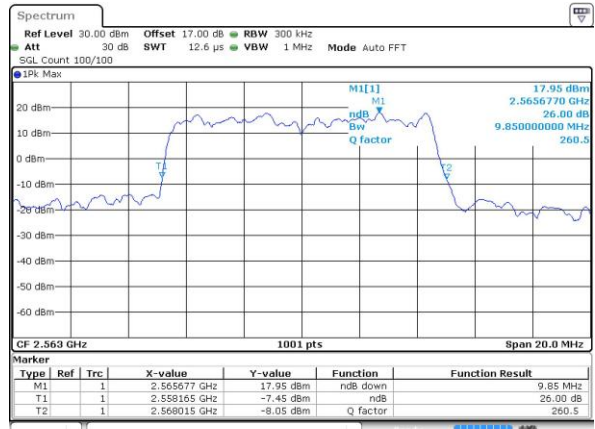
Date: 14 DEC 2018 20:59:33

Highest Channel / 10MHz / QPSK



Date: 14 DEC 2018 21:00:11

Highest Channel / 10MHz / 16QAM

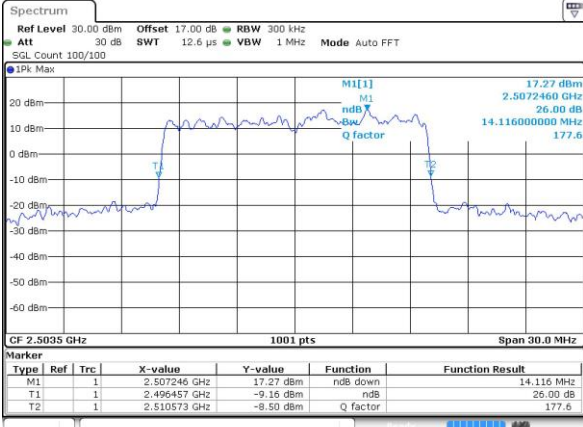


Date: 14 DEC 2018 21:00:24



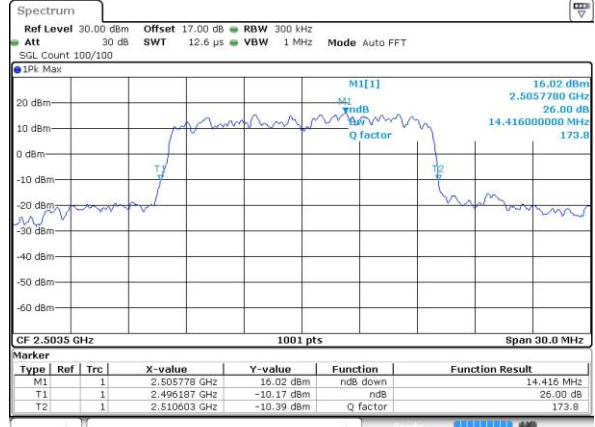
LTE Band 41

Lowest Channel / 15MHz / QPSK



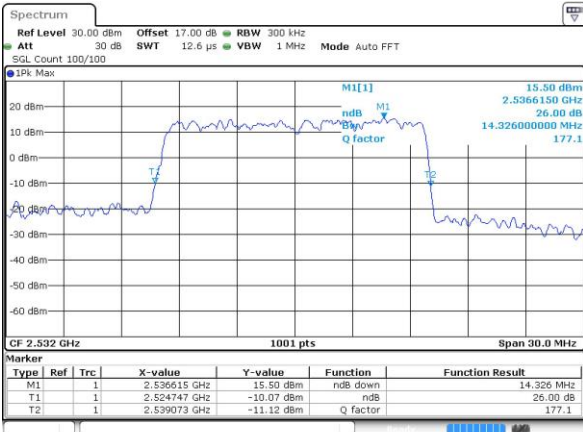
Date: 14 DEC 2018 21:48:01

Lowest Channel / 15MHz / 16QAM



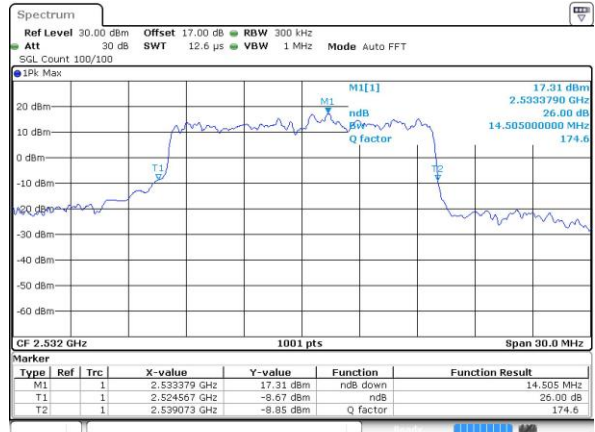
Date: 14 DEC 2018 21:48:17

Middle Channel / 15MHz / QPSK



Date: 14 DEC 2018 21:47:33

Middle Channel / 15MHz / 16QAM



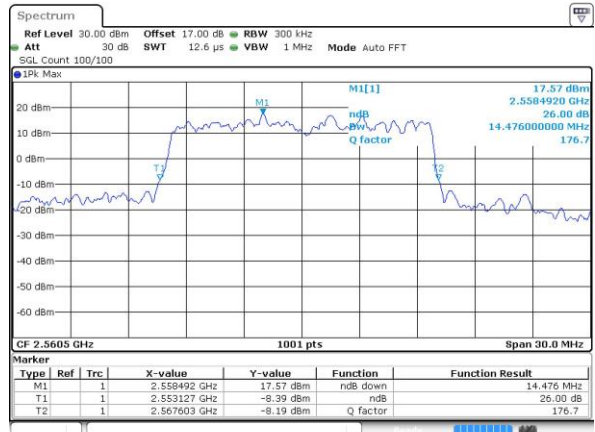
Date: 14 DEC 2018 21:47:14

Highest Channel / 15MHz / QPSK



Date: 14 DEC 2018 21:46:30

Highest Channel / 15MHz / 16QAM

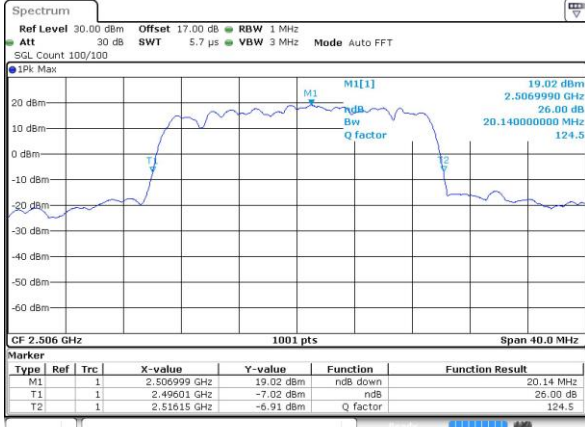


Date: 14 DEC 2018 21:46:45



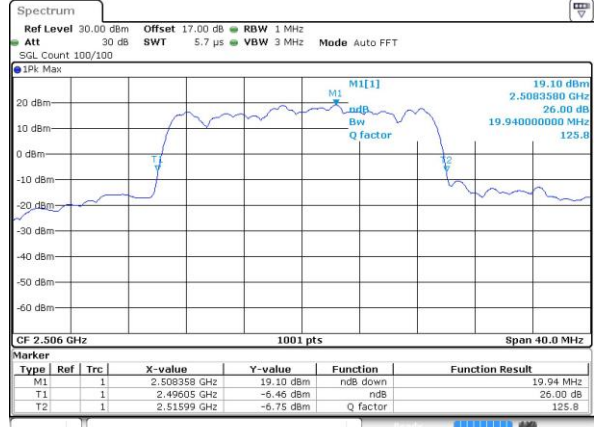
LTE Band 41

Lowest Channel / 20MHz / QPSK



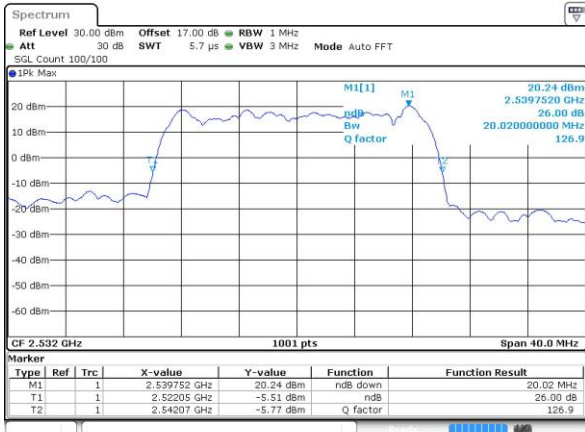
Date: 14 DEC 2018 21:50:44

Lowest Channel / 20MHz / 16QAM



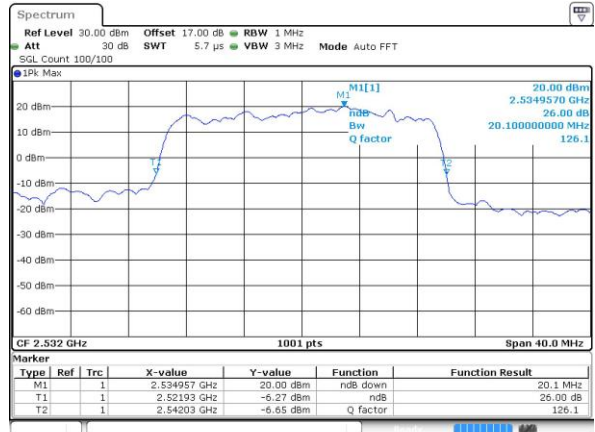
Date: 14 DEC 2018 21:49:21

Middle Channel / 20MHz / QPSK



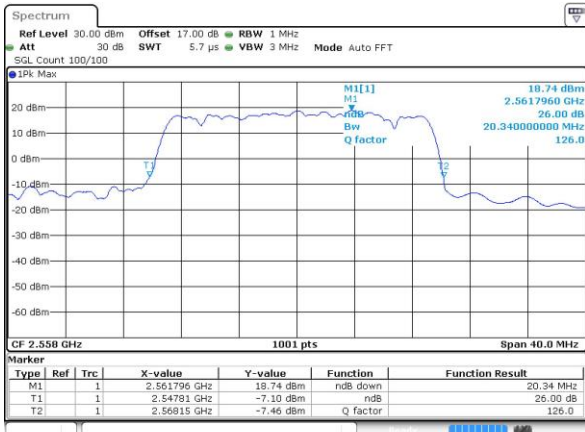
Date: 14 DEC 2018 21:53:20

Middle Channel / 20MHz / 16QAM



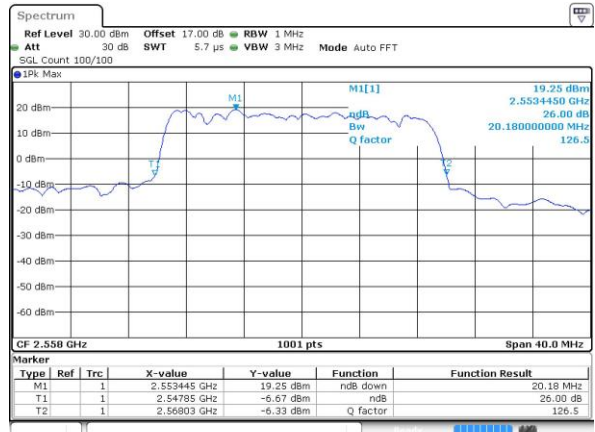
Date: 14 DEC 2018 21:53:40

Highest Channel / 20MHz / QPSK



Date: 14 DEC 2018 21:55:56

Highest Channel / 20MHz / 16QAM



Date: 14 DEC 2018 21:56:37



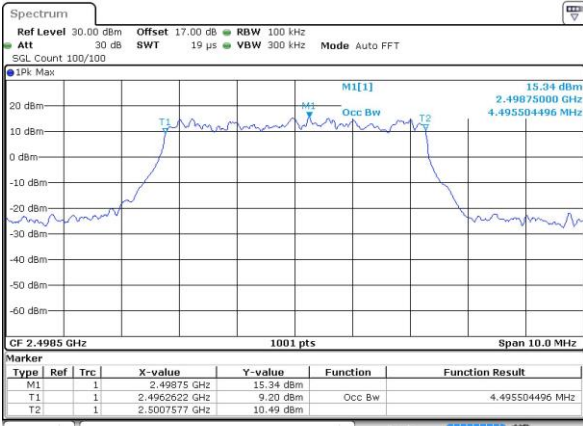
Occupied Bandwidth

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
Lowest CH	-	-	-	-	4.50	4.49	8.99	8.97	13.43	13.46	18.14	18.18
Middle CH	-	-	-	-	4.51	4.52	9.05	8.97	13.43	13.49	18.38	18.42
Highest CH	-	-	-	-	4.50	4.51	9.01	9.07	13.46	13.49	18.38	18.42



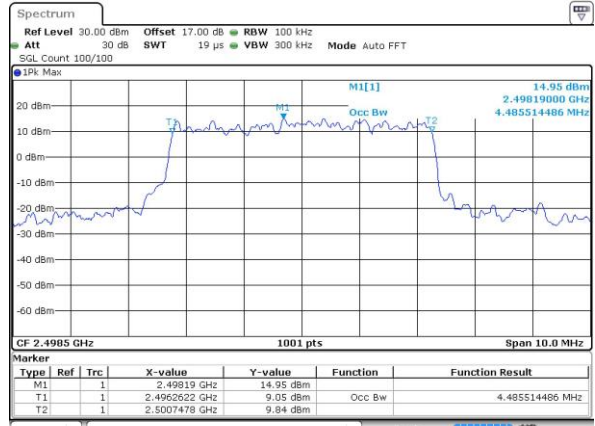
LTE Band 41

Lowest Channel / 5MHz / QPSK



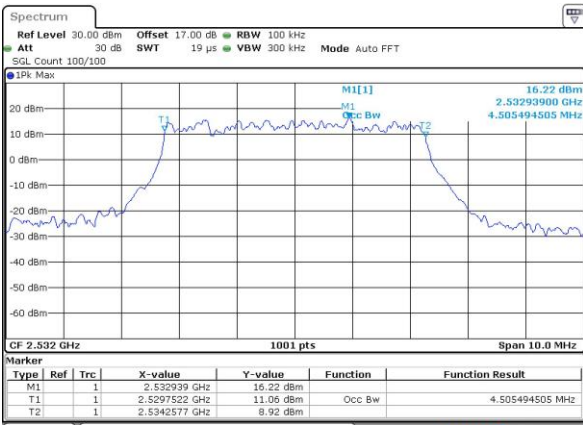
Date: 14 DEC 2018 20:55:35

Lowest Channel / 5MHz / 16QAM



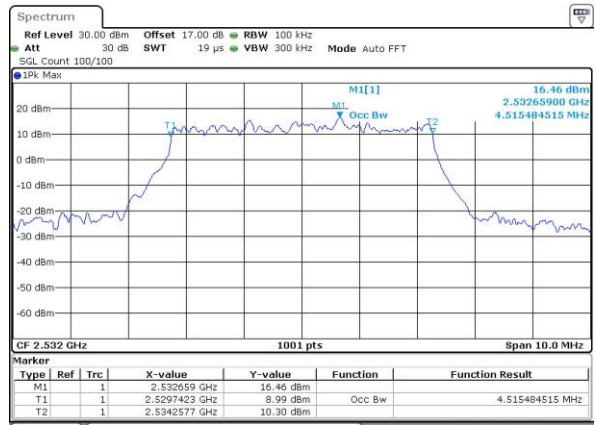
Date: 14 DEC 2018 20:55:48

Middle Channel / 5MHz / QPSK



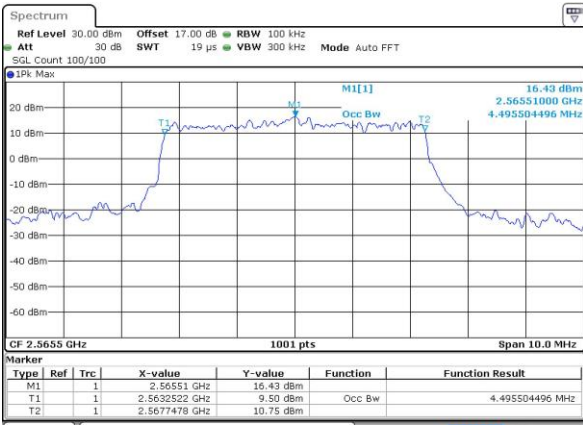
Date: 14 DEC 2018 20:56:25

Middle Channel / 5MHz / 16QAM



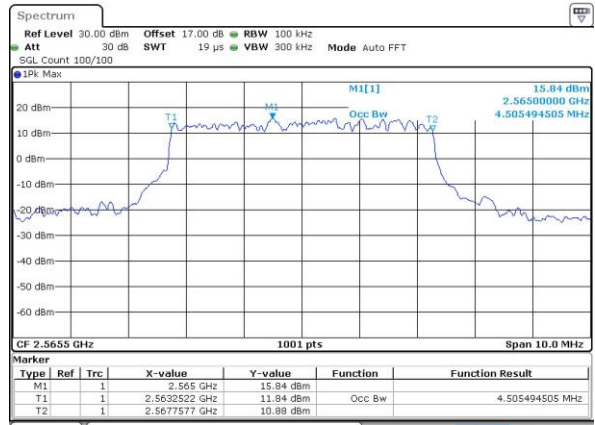
Date: 14 DEC 2018 20:56:38

Highest Channel / 5MHz / QPSK



Date: 14 DEC 2018 20:57:15

Highest Channel / 5MHz / 16QAM

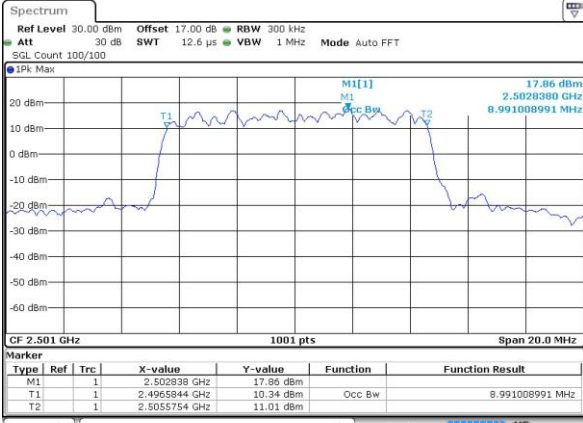


Date: 14 DEC 2018 20:57:28



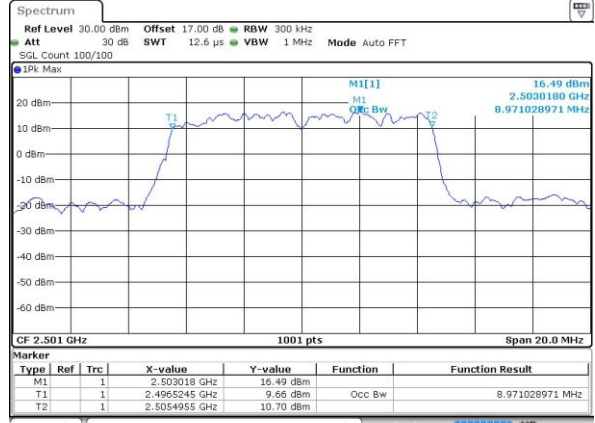
LTE Band 41

Lowest Channel / 10MHz / QPSK



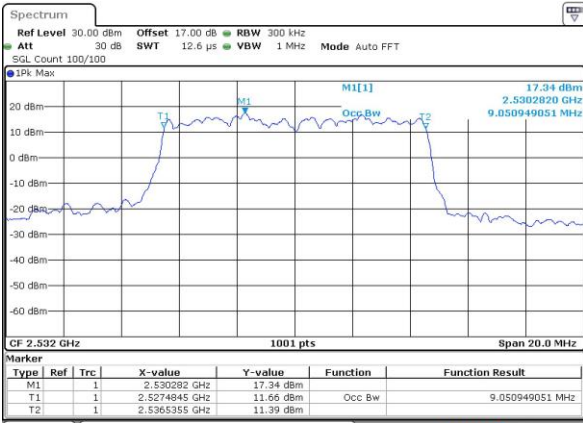
Date: 14 DEC 2018 20:58:06

Lowest Channel / 10MHz / 16QAM



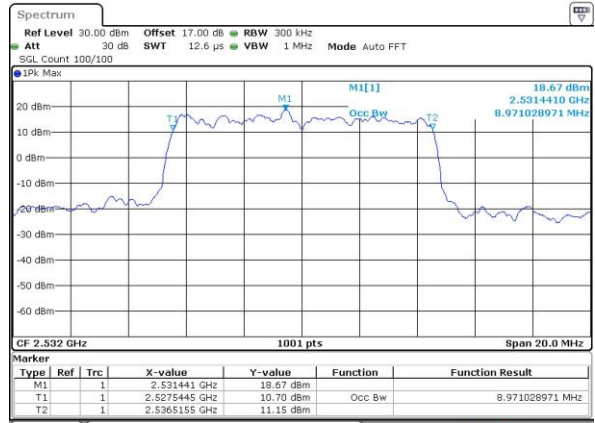
Date: 14 DEC 2018 20:58:18

Middle Channel / 10MHz / QPSK



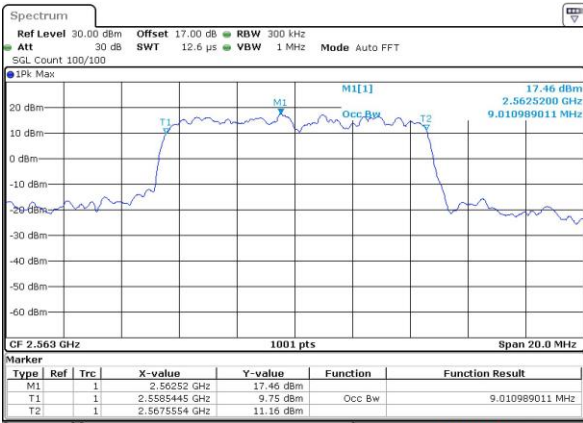
Date: 14 DEC 2018 20:58:56

Middle Channel / 10MHz / 16QAM



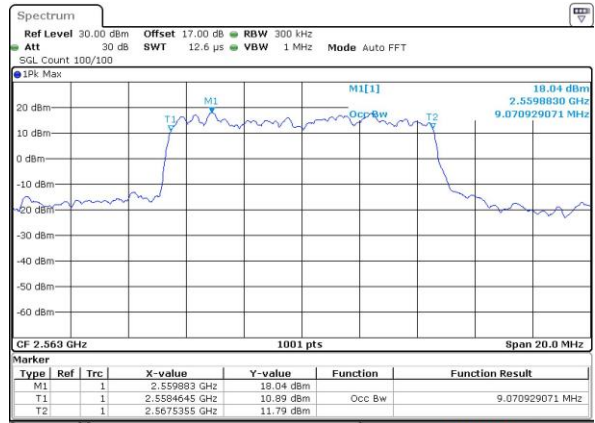
Date: 14 DEC 2018 20:59:08

Highest Channel / 10MHz / QPSK



Date: 14 DEC 2018 20:59:46

Highest Channel / 10MHz / 16QAM

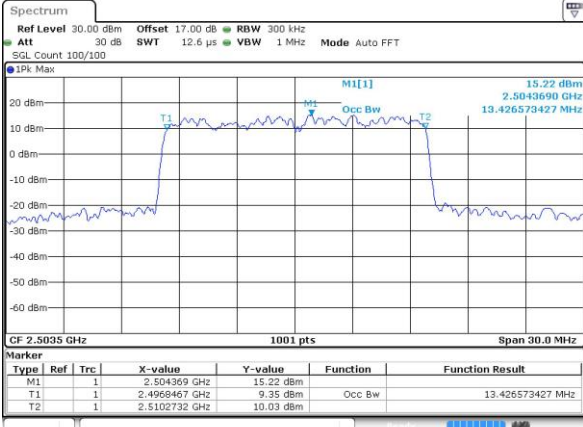


Date: 14 DEC 2018 20:59:59



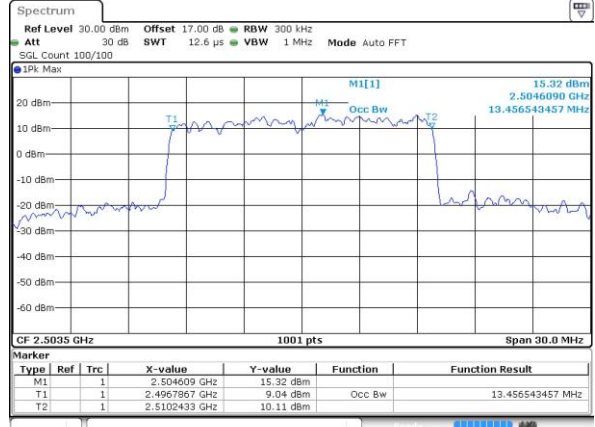
LTE Band 41

Lowest Channel / 15MHz / QPSK



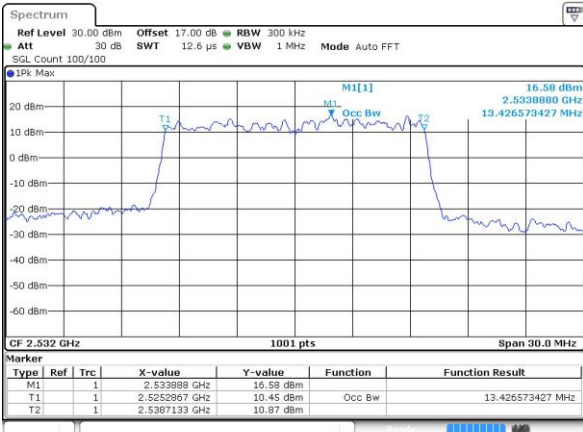
Date: 14 DEC 2018 21:47:55

Lowest Channel / 15MHz / 16QAM



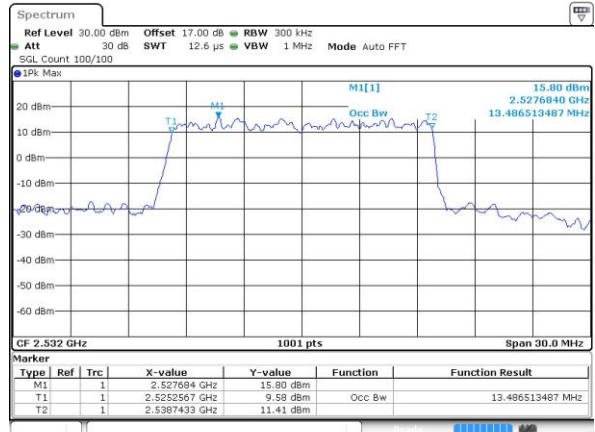
Date: 14 DEC 2018 21:48:10

Middle Channel / 15MHz / QPSK



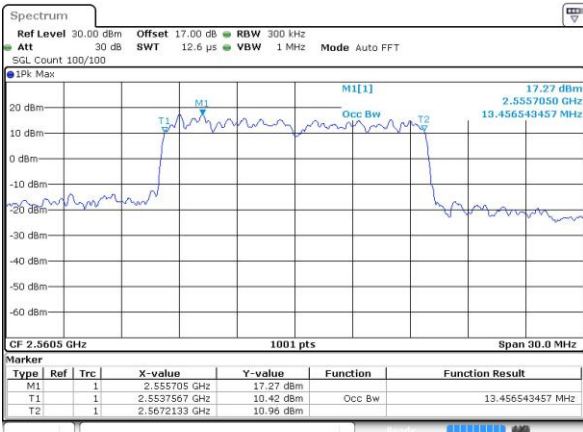
Date: 14 DEC 2018 21:47:28

Middle Channel / 15MHz / 16QAM



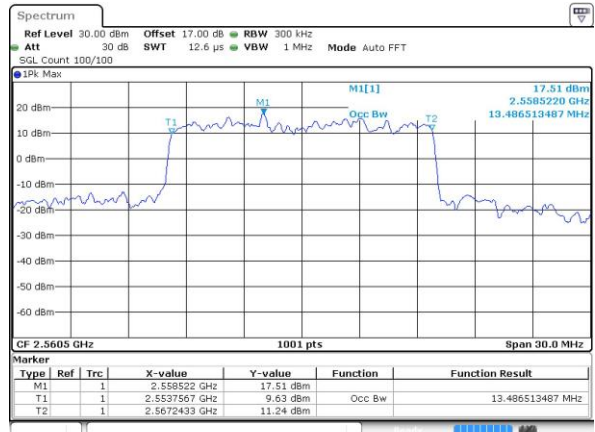
Date: 14 DEC 2018 21:47:05

Highest Channel / 15MHz / QPSK



Date: 14 DEC 2018 21:46:24

Highest Channel / 15MHz / 16QAM

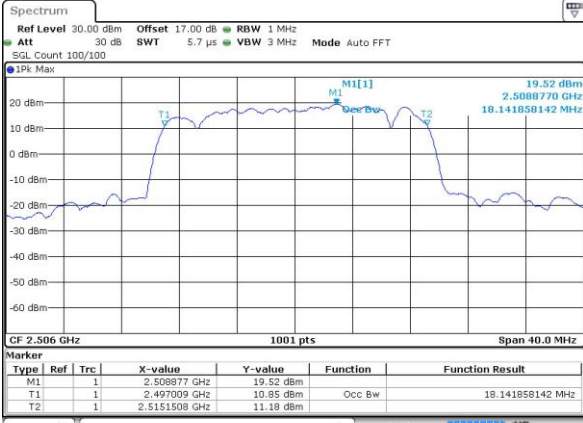


Date: 14 DEC 2018 21:46:39



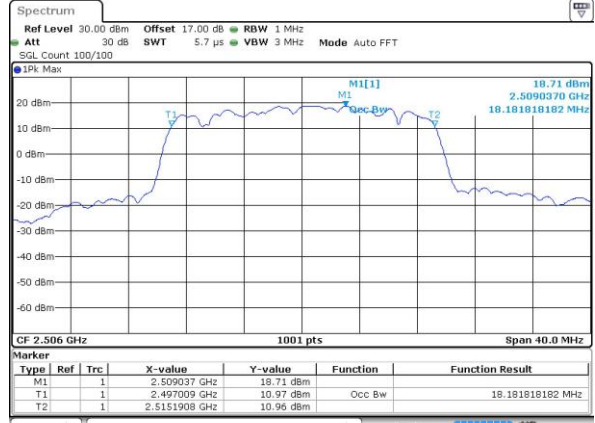
LTE Band 41

Lowest Channel / 20MHz / QPSK



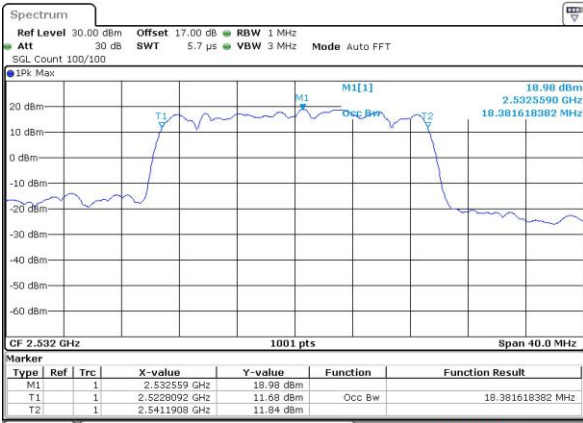
Date: 14 DEC 2018 21:50:51

Lowest Channel / 20MHz / 16QAM



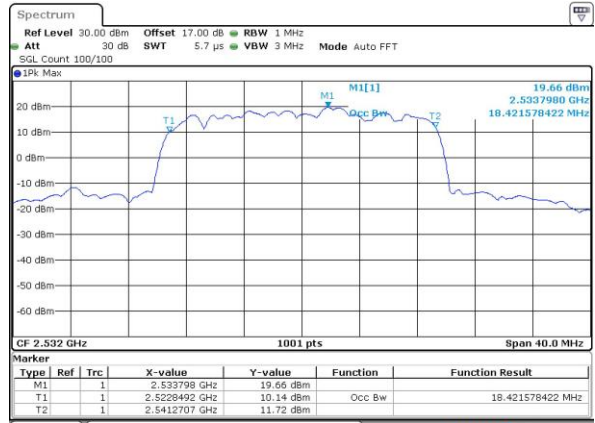
Date: 14 DEC 2018 21:49:15

Middle Channel / 20MHz / QPSK



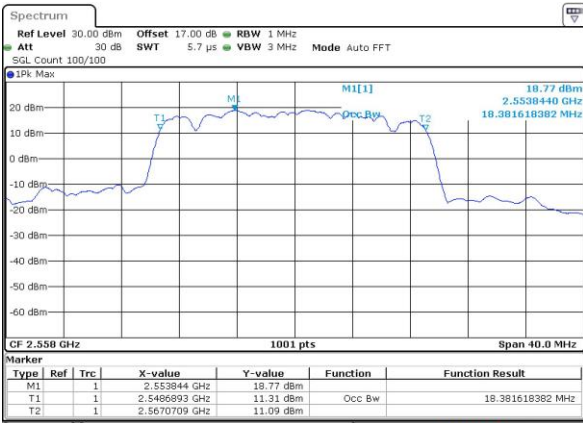
Date: 14 DEC 2018 21:53:13

Middle Channel / 20MHz / 16QAM



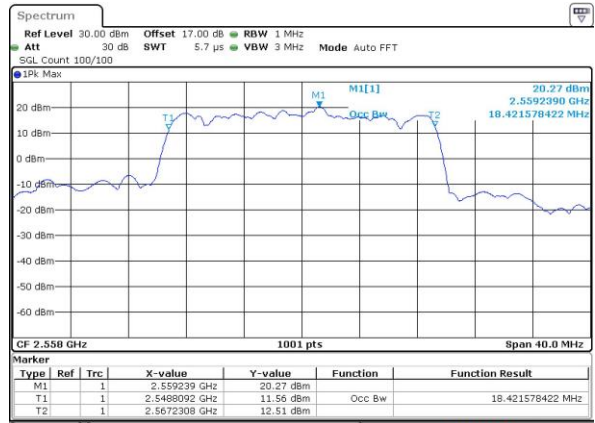
Date: 14 DEC 2018 21:53:32

Highest Channel / 20MHz / QPSK



Date: 14 DEC 2018 21:56:02

Highest Channel / 20MHz / 16QAM



Date: 14 DEC 2018 21:56:44



Conducted Band Edge