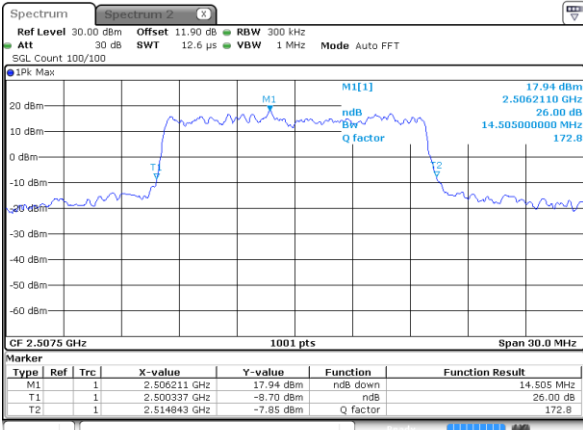




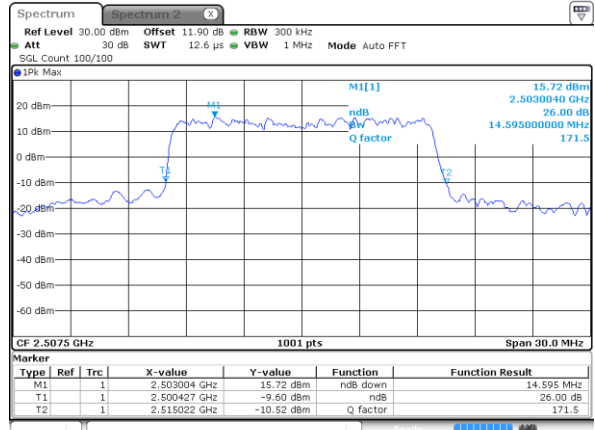
LTE Band 7

Lowest Channel / 15MHz / QPSK



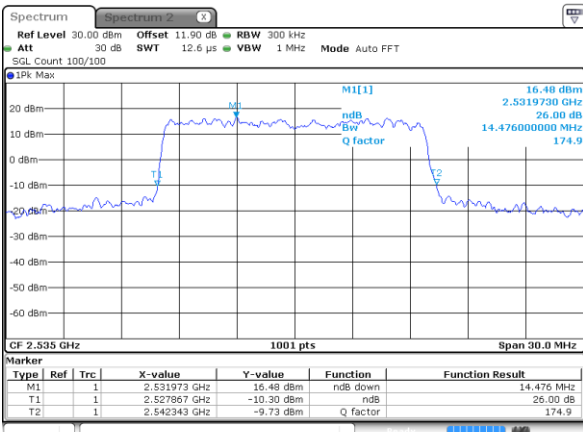
Date: 5 SEP 2017 18:36:14

Lowest Channel / 15MHz / 16QAM



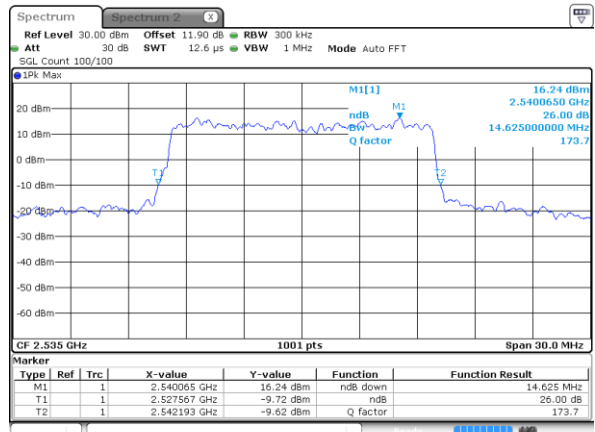
Date: 5 SEP 2017 18:36:24

Middle Channel / 15MHz / QPSK



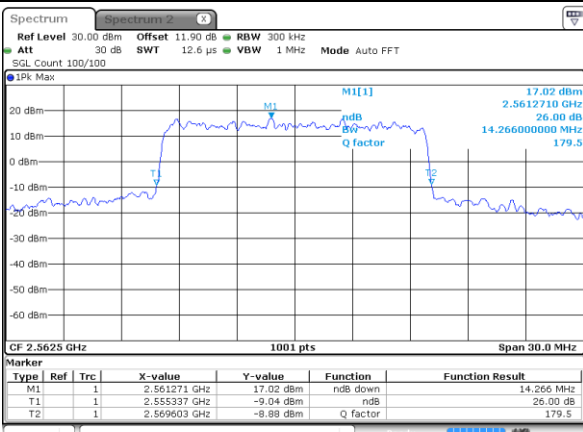
Date: 5 SEP 2017 18:43:17

Middle Channel / 15MHz / 16QAM



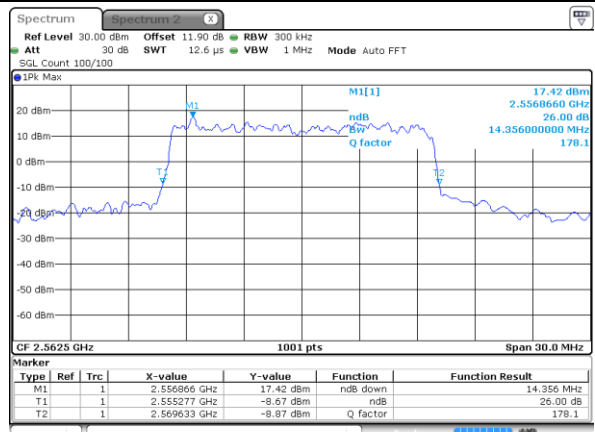
Date: 5 SEP 2017 18:43:27

Highest Channel / 15MHz / QPSK



Date: 5 SEP 2017 18:45:44

Highest Channel / 15MHz / 16QAM

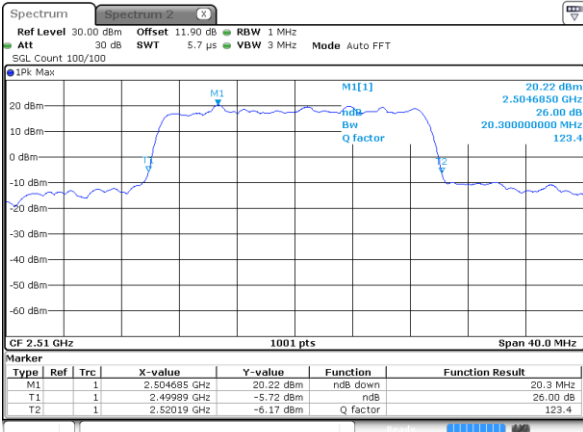


Date: 5 SEP 2017 18:45:54



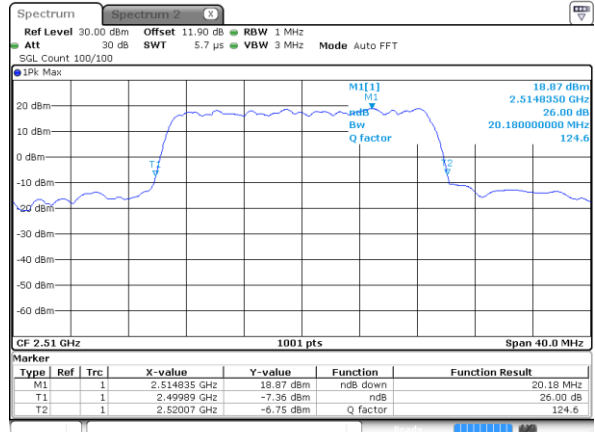
LTE Band 7

Lowest Channel / 20MHz / QPSK



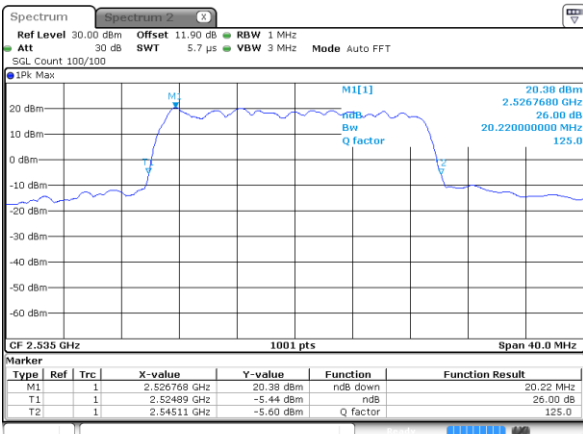
Date: 5 SEP 2017 18:52:48

Lowest Channel / 20MHz / 16QAM



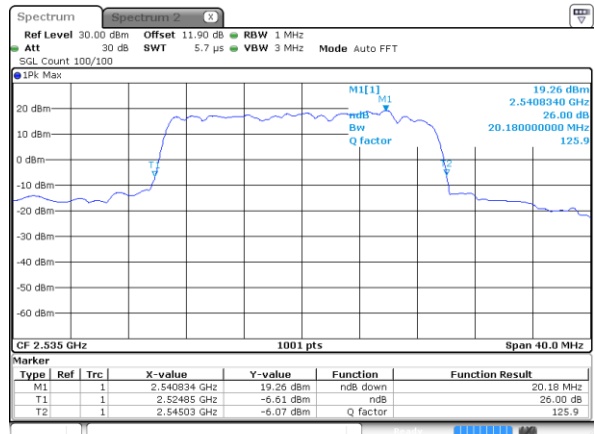
Date: 5 SEP 2017 18:52:57

Middle Channel / 20MHz / QPSK



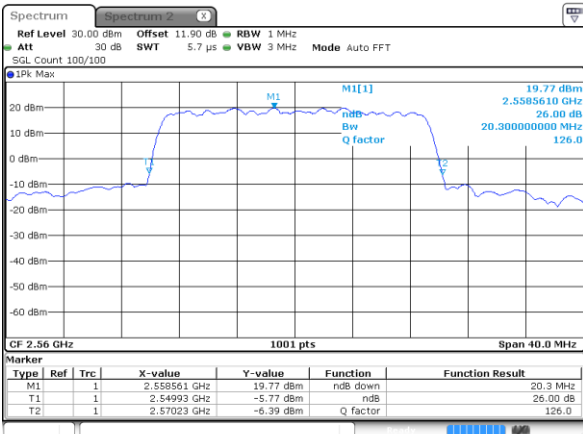
Date: 5 SEP 2017 18:59:51

Middle Channel / 20MHz / 16QAM



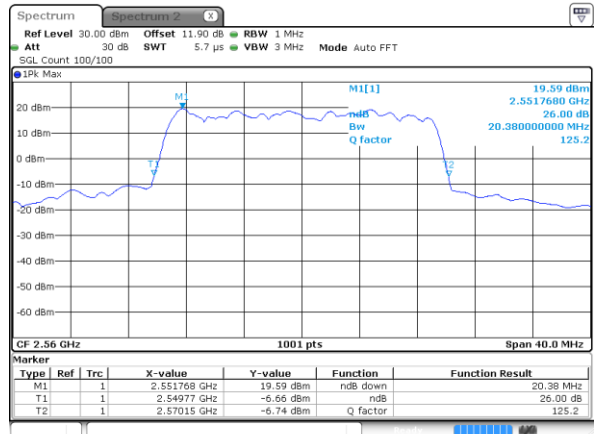
Date: 5 SEP 2017 19:00:01

Highest Channel / 20MHz / QPSK



Date: 5 SEP 2017 19:02:18

Highest Channel / 20MHz / 16QAM



Date: 5 SEP 2017 19:02:28



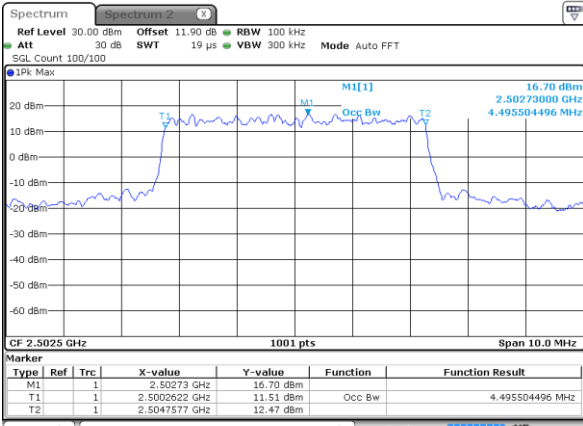
### Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.5	4.51	9.01	9.03	13.49	13.46	18.5	18.46
Middle CH	-	-	-	-	4.52	4.51	9.09	9.01	13.49	13.49	18.42	18.38
Highest CH	-	-	-	-	4.51	4.49	9.01	8.99	13.46	13.43	18.46	18.3



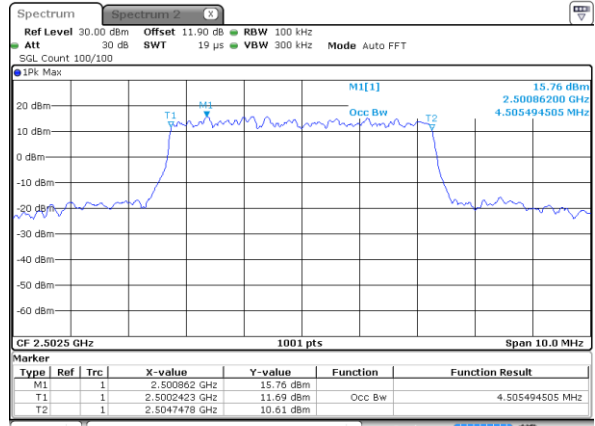
LTE Band 7

Lowest Channel / 5MHz / QPSK



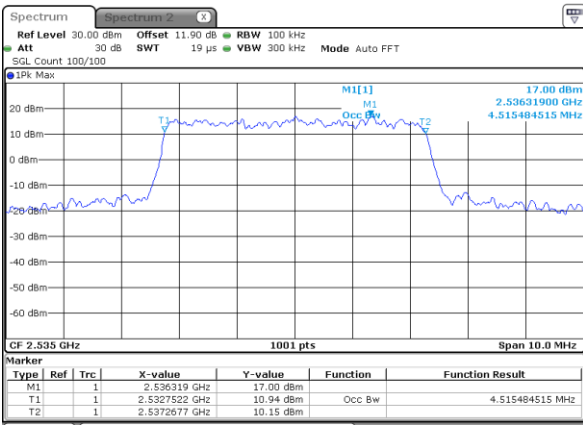
Date: 5 SEP 2017 18:02:46

Lowest Channel / 5MHz / 16QAM



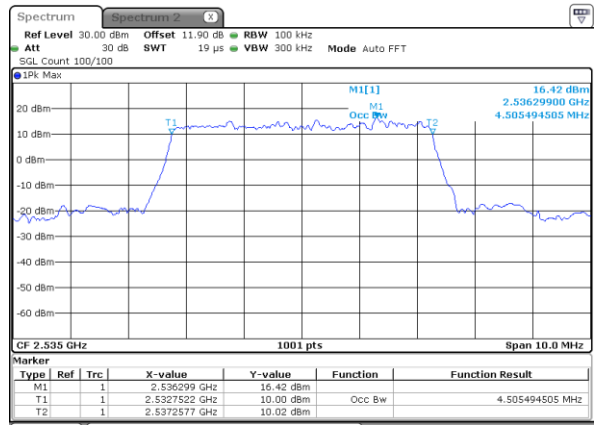
Date: 5 SEP 2017 18:02:56

Middle Channel / 5MHz / QPSK



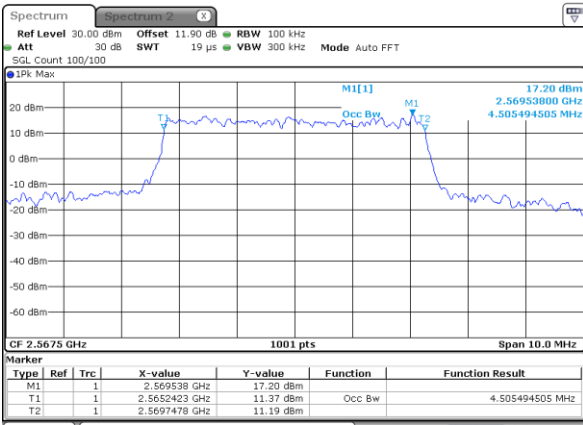
Date: 5 SEP 2017 18:09:50

Middle Channel / 5MHz / 16QAM



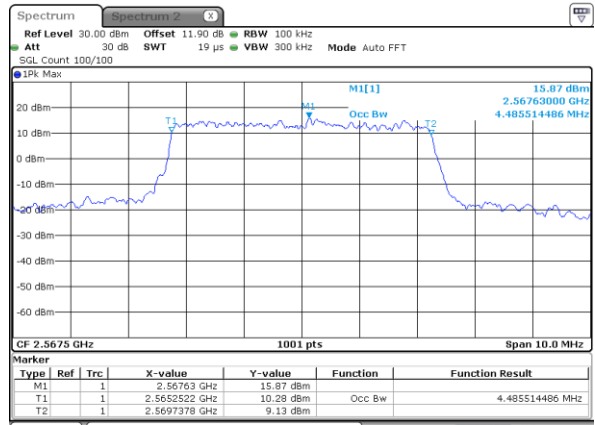
Date: 5 SEP 2017 18:10:00

Highest Channel / 5MHz / QPSK



Date: 5 SEP 2017 18:12:16

Highest Channel / 5MHz / 16QAM

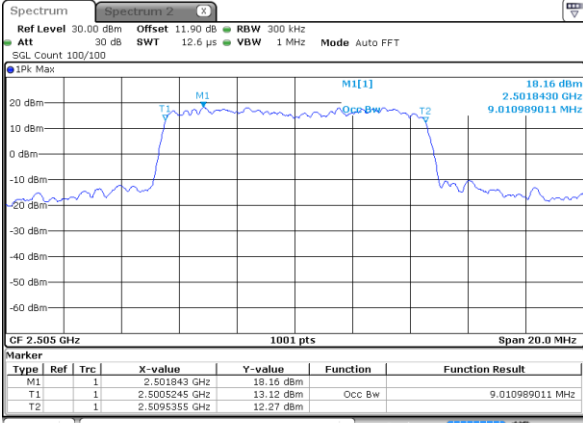


Date: 5 SEP 2017 18:12:26



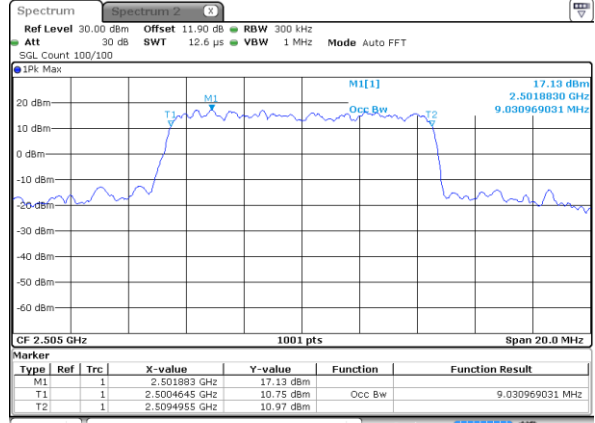
LTE Band 7

Lowest Channel / 10MHz / QPSK



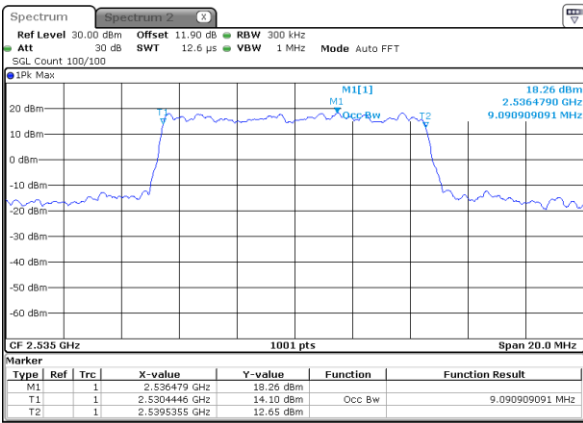
Date: 5 SEP 2017 18:19:20

Lowest Channel / 10MHz / 16QAM



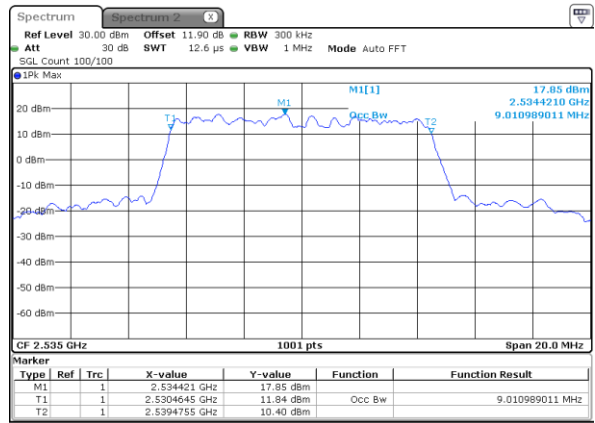
Date: 5 SEP 2017 18:19:30

Middle Channel / 10MHz / QPSK



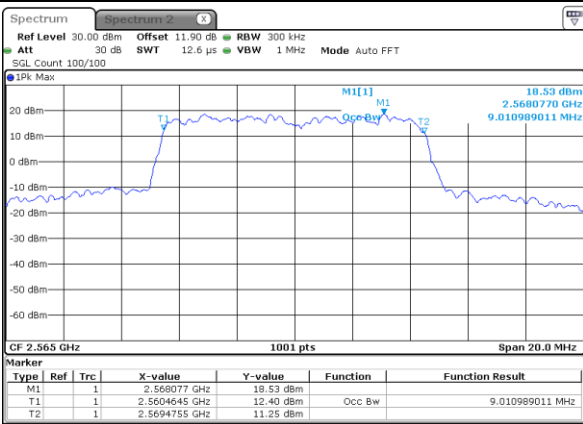
Date: 5 SEP 2017 18:26:23

Middle Channel / 10MHz / 16QAM



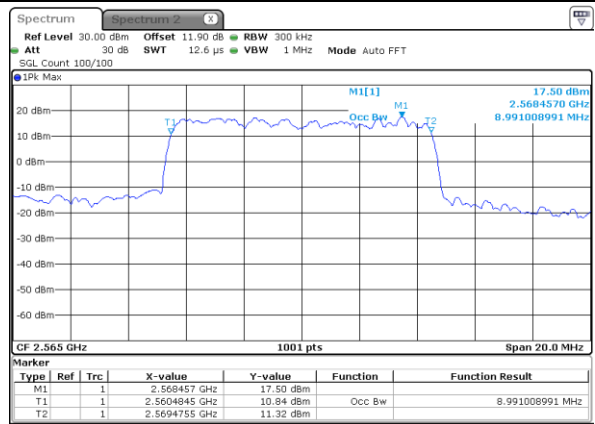
Date: 5 SEP 2017 18:26:33

Highest Channel / 10MHz / QPSK



Date: 5 SEP 2017 18:28:50

Highest Channel / 10MHz / 16QAM

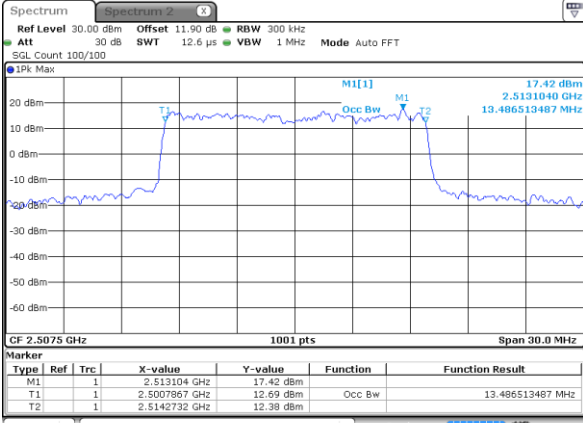


Date: 5 SEP 2017 18:29:00



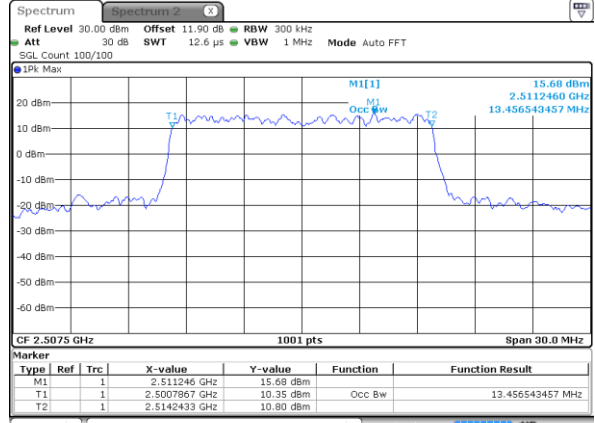
LTE Band 7

Lowest Channel / 15MHz / QPSK



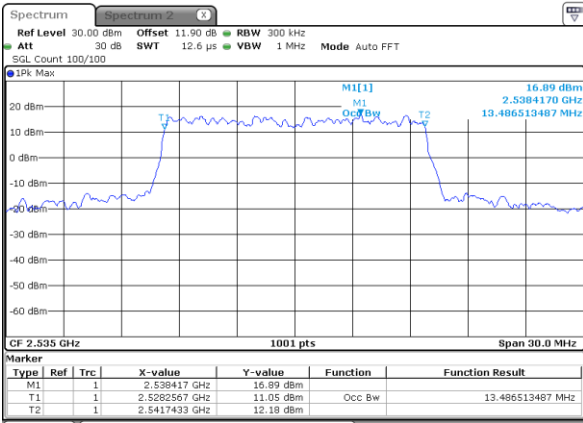
Date: 5 SEP 2017 18:35:54

Lowest Channel / 15MHz / 16QAM



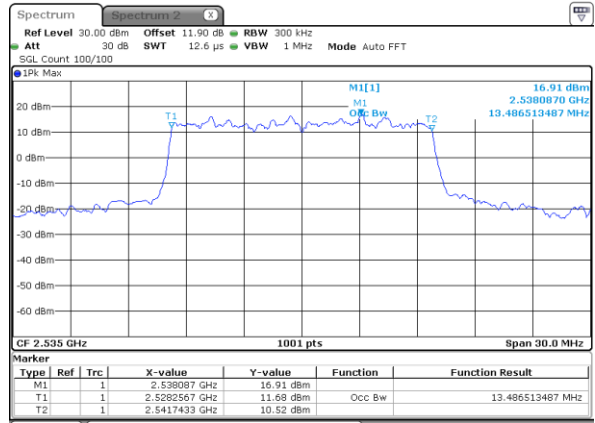
Date: 5 SEP 2017 18:36:04

Middle Channel / 15MHz / QPSK



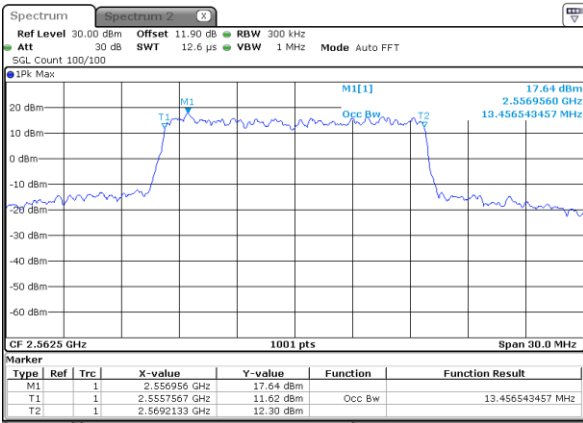
Date: 5 SEP 2017 18:42:57

Middle Channel / 15MHz / 16QAM



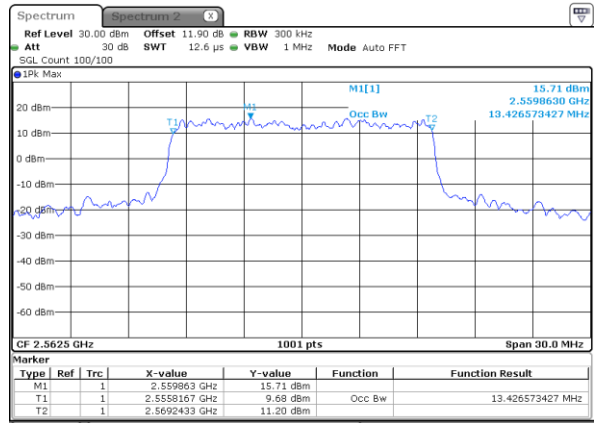
Date: 5 SEP 2017 18:43:07

Highest Channel / 15MHz / QPSK



Date: 5 SEP 2017 18:45:24

Highest Channel / 15MHz / 16QAM

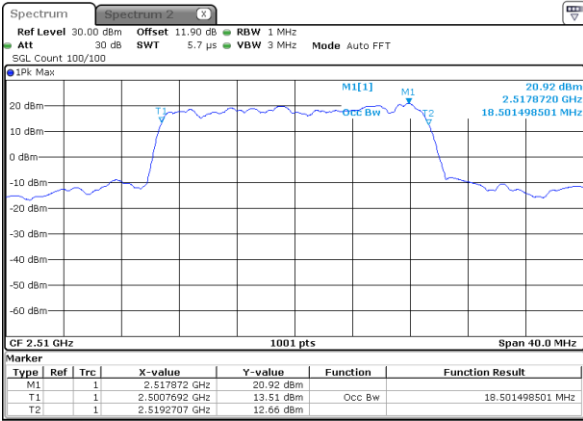


Date: 5 SEP 2017 18:45:34



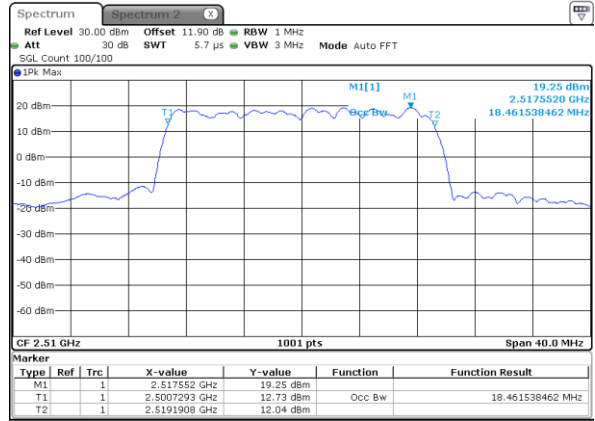
LTE Band 7

Lowest Channel / 20MHz / QPSK



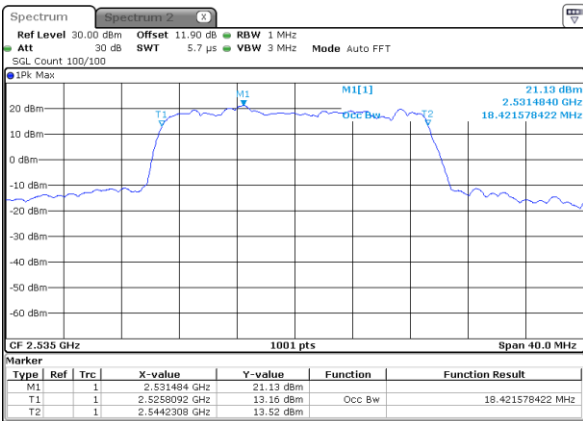
Date: 5 SEP 2017 18:52:28

Lowest Channel / 20MHz / 16QAM



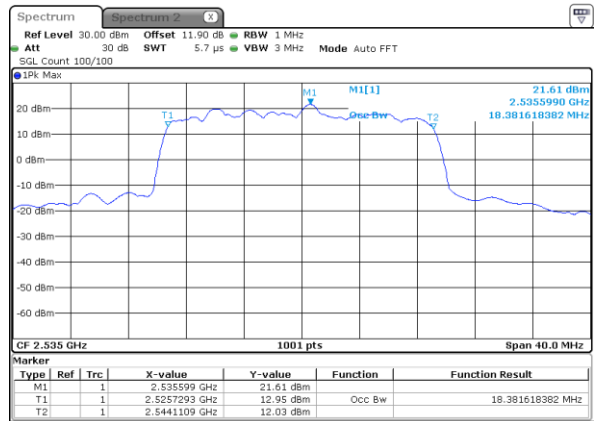
Date: 5 SEP 2017 18:52:38

Middle Channel / 20MHz / QPSK



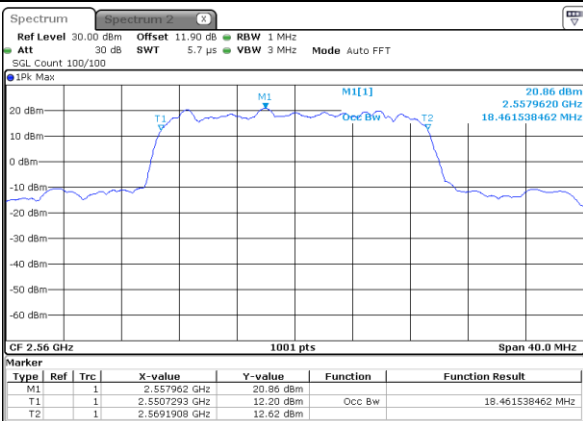
Date: 5 SEP 2017 18:59:31

Middle Channel / 20MHz / 16QAM



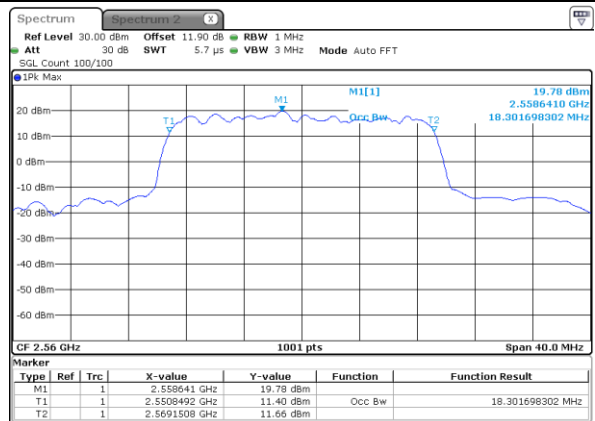
Date: 5 SEP 2017 18:59:41

Highest Channel / 20MHz / QPSK



Date: 5 SEP 2017 19:01:58

Highest Channel / 20MHz / 16QAM



Date: 5 SEP 2017 19:02:08



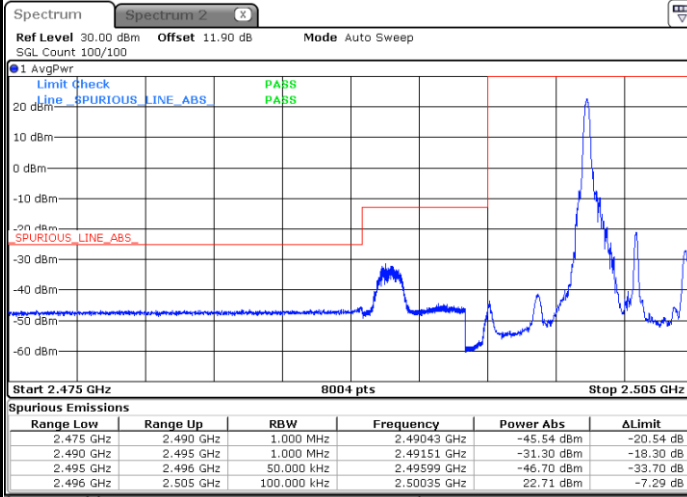
**Conducted Band Edge**





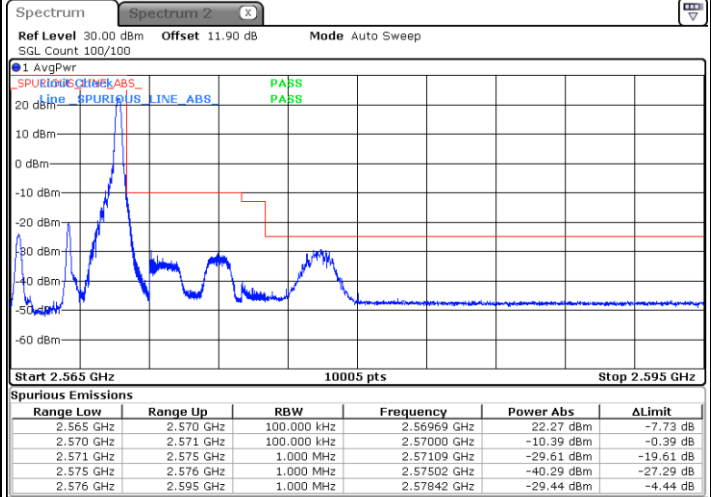
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



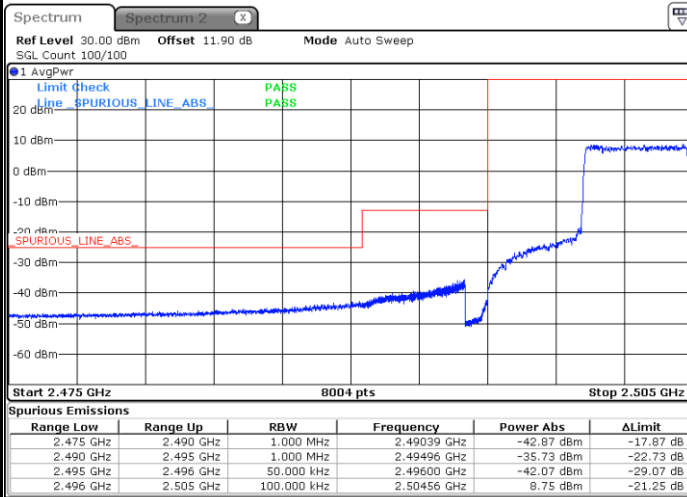
Date: 5 SEP.2017 18:04:25

Highest Band Edge / 1 RB



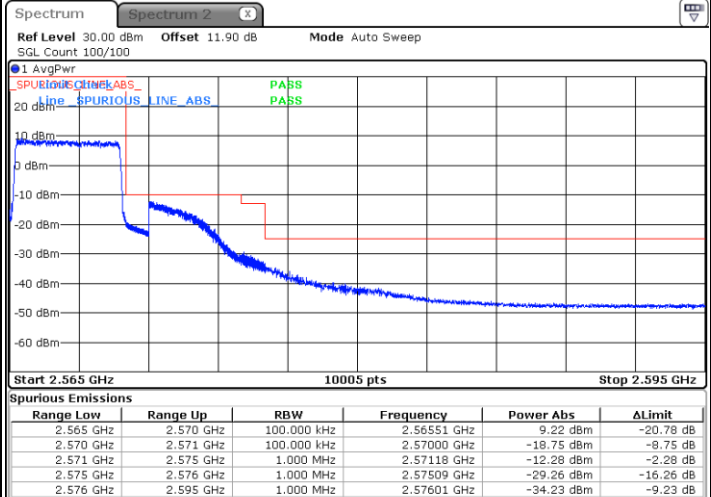
Date: 5 SEP.2017 19:16:02

Lowest Band Edge / Full RB



Date: 5 SEP.2017 18:06:43

Highest Band Edge / Full RB

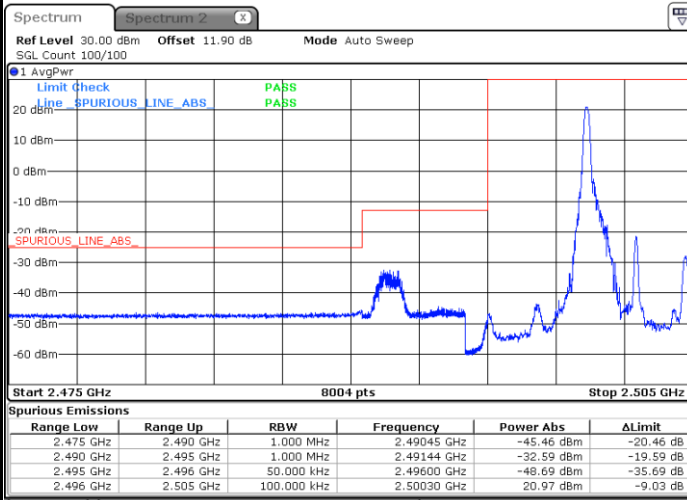


Date: 5 SEP.2017 18:16:14



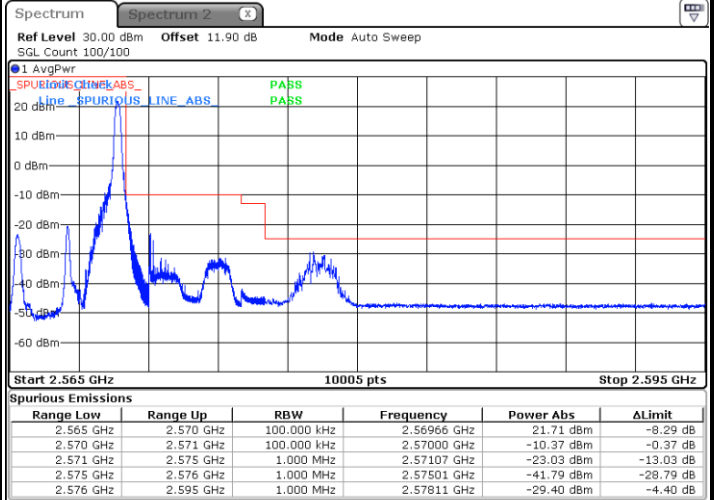
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



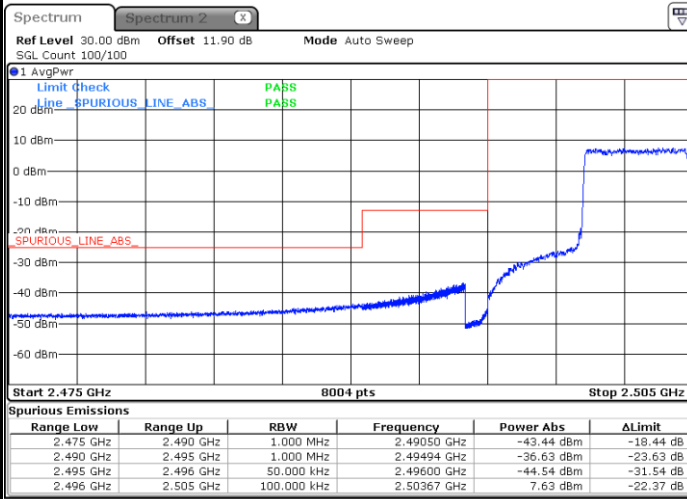
Date: 5 SEP.2017 18:05:34

Highest Band Edge / 1 RB



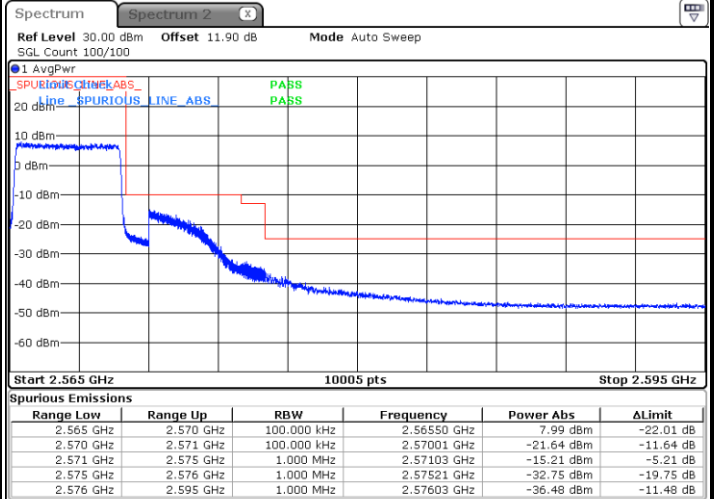
Date: 5 SEP.2017 18:15:04

Lowest Band Edge / Full RB



Date: 5 SEP.2017 18:07:53

Highest Band Edge / Full RB

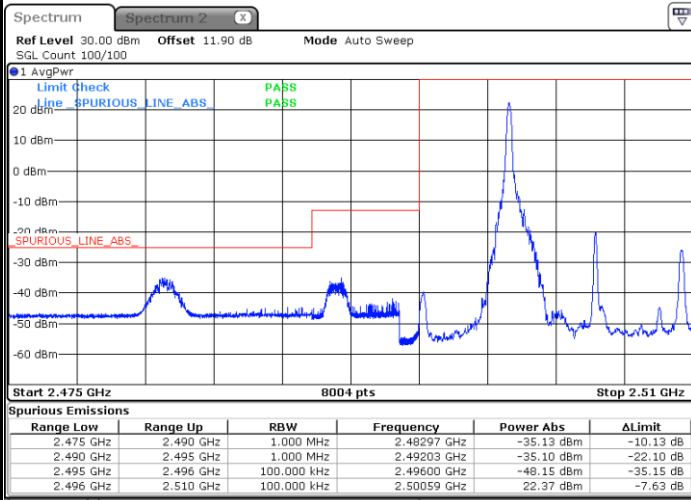


Date: 5 SEP.2017 18:17:23



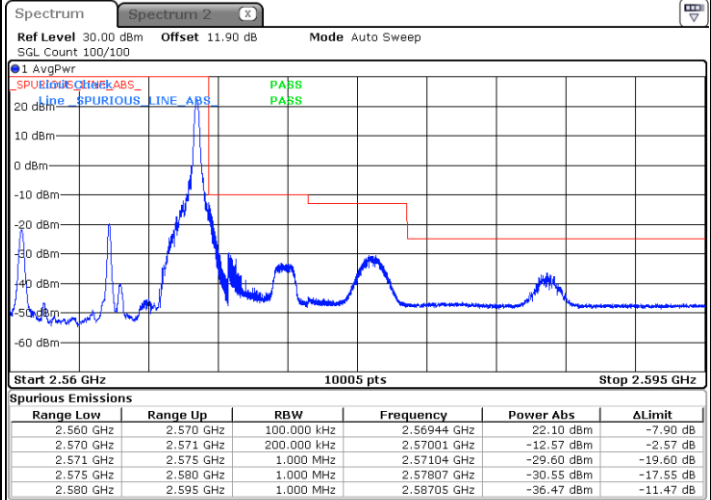
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



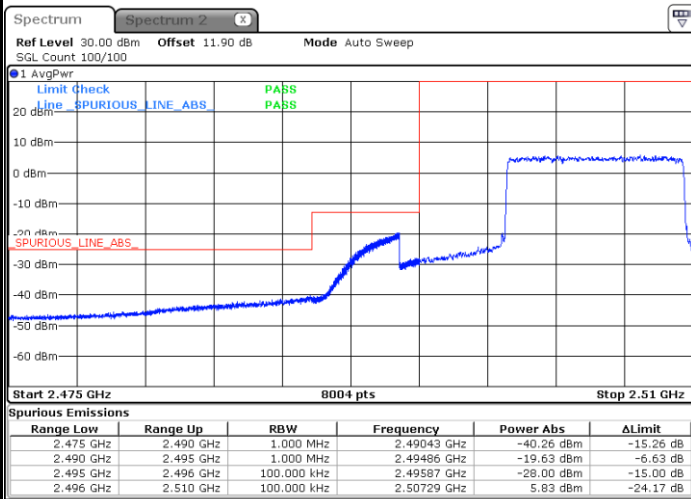
Date: 5 SEP.2017 18:20:59

Highest Band Edge / 1 RB



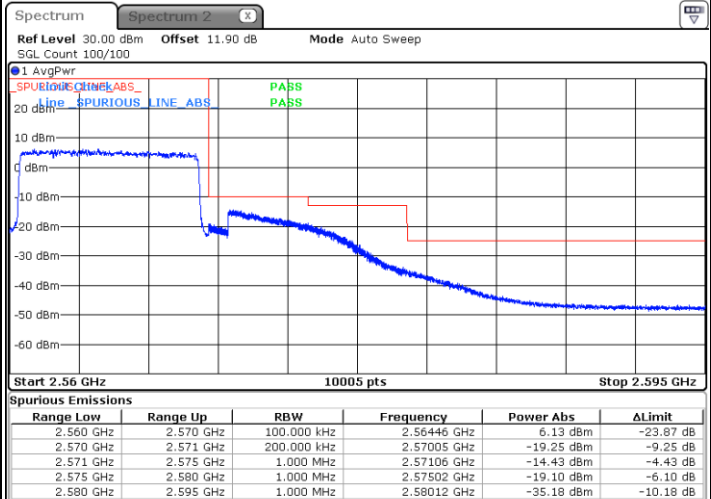
Date: 5 SEP.2017 18:30:29

Lowest Band Edge / Full RB



Date: 5 SEP.2017 18:23:17

Highest Band Edge / Full RB

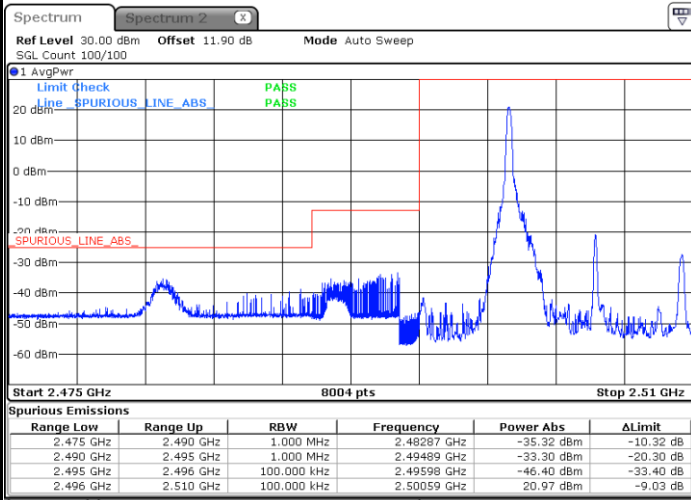


Date: 5 SEP.2017 18:32:47



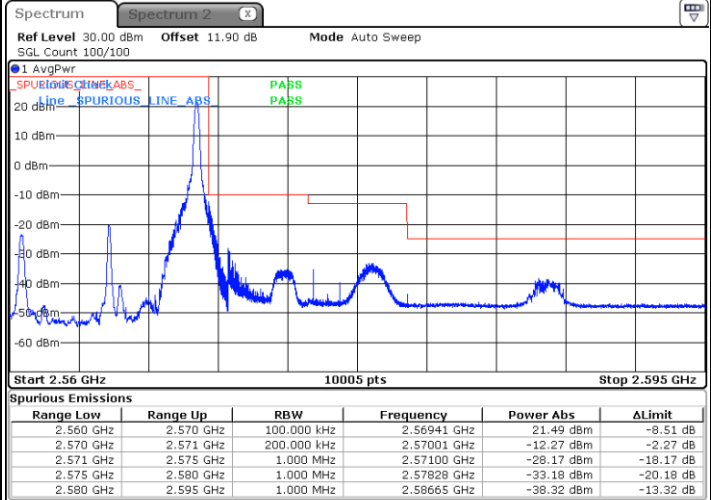
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



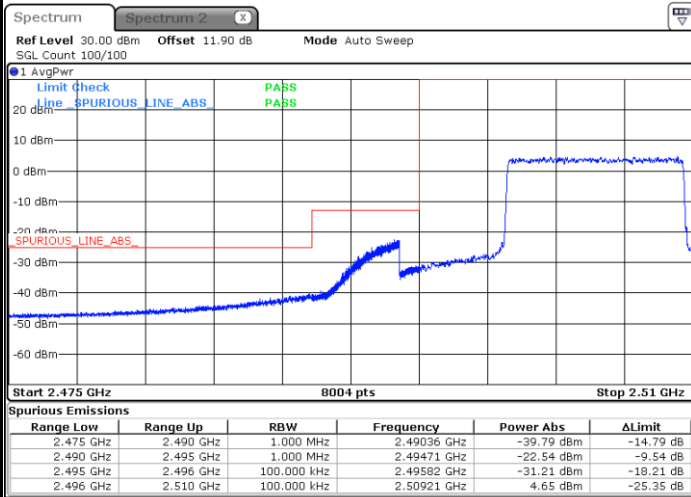
Date: 5 SEP.2017 18:22:08

Highest Band Edge / 1 RB



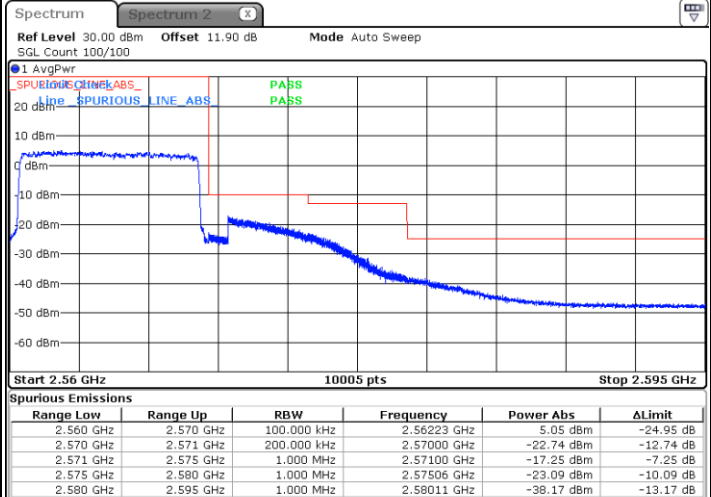
Date: 5 SEP.2017 18:31:38

Lowest Band Edge / Full RB



Date: 5 SEP.2017 18:24:26

Highest Band Edge / Full RB

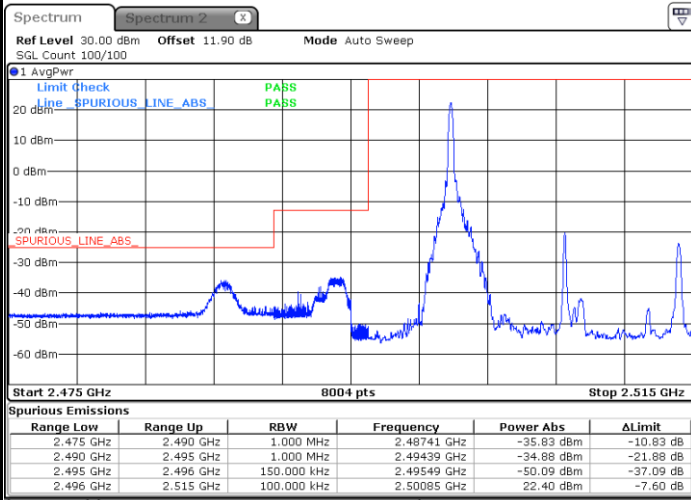


Date: 5 SEP.2017 18:33:57



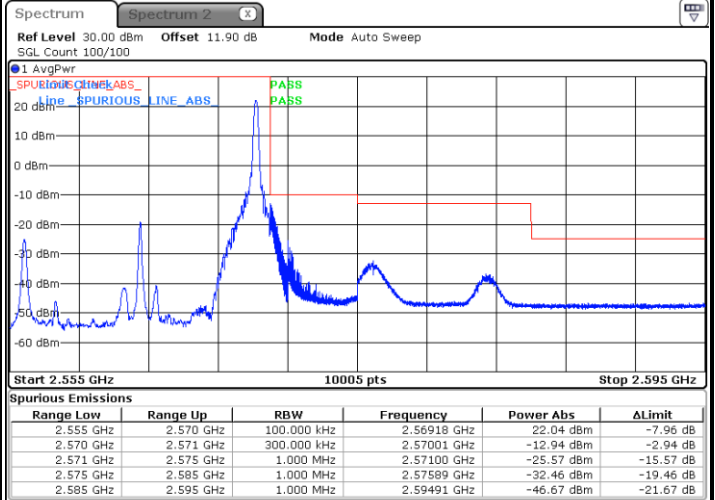
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



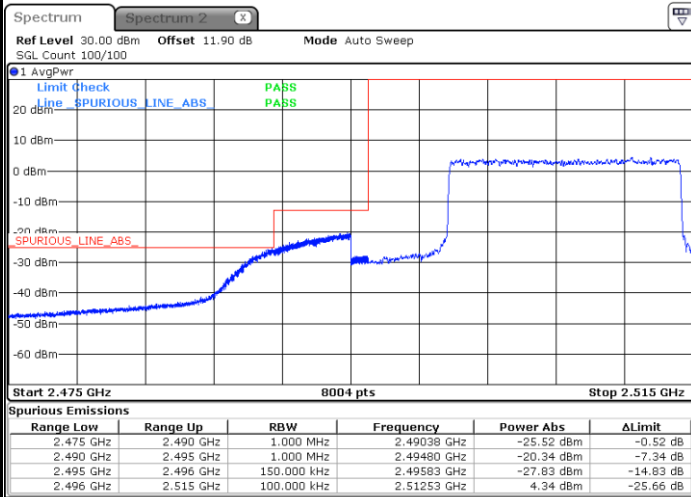
Date: 5 SEP.2017 18:37:32

Highest Band Edge / 1 RB



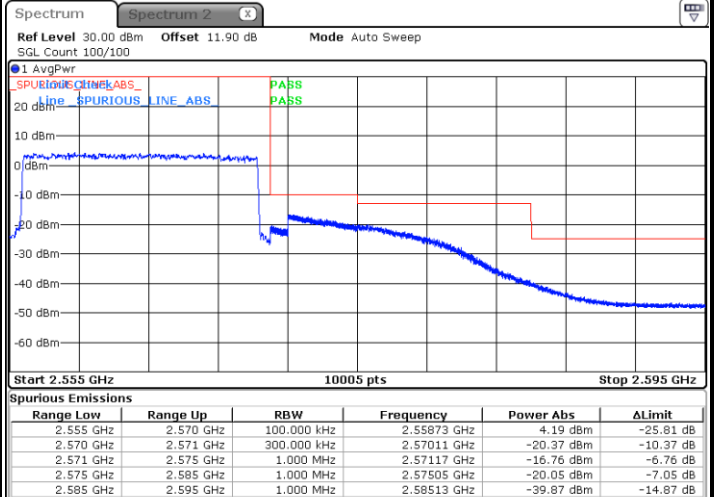
Date: 5 SEP.2017 18:47:03

Lowest Band Edge / Full RB



Date: 5 SEP.2017 19:14:09

Highest Band Edge / Full RB

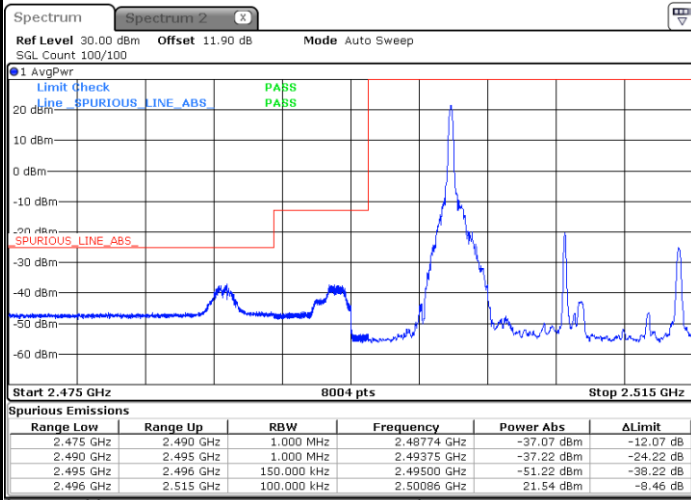


Date: 5 SEP.2017 18:49:21



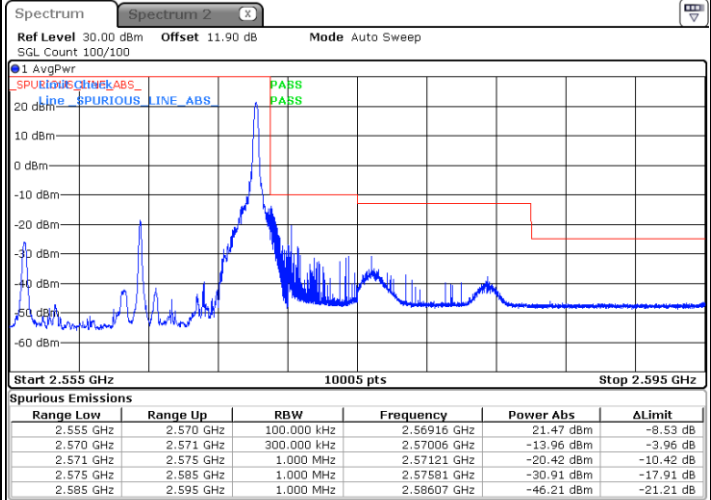
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



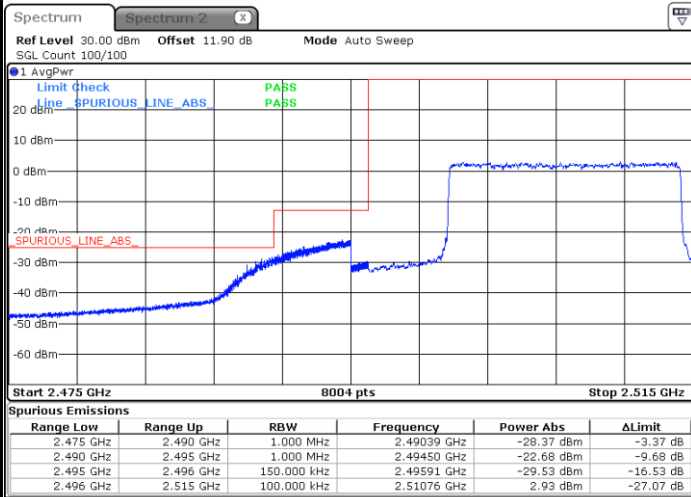
Date: 5 SEP.2017 18:38:42

Highest Band Edge / 1 RB



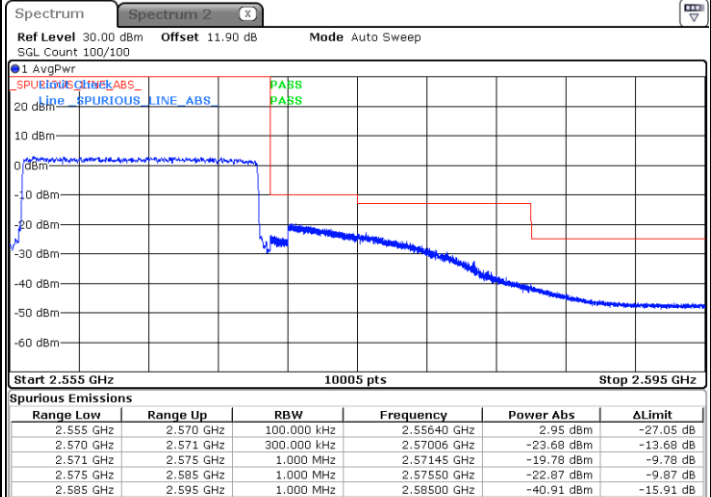
Date: 5 SEP.2017 18:48:12

Lowest Band Edge / Full RB



Date: 5 SEP.2017 18:41:00

Highest Band Edge / Full RB

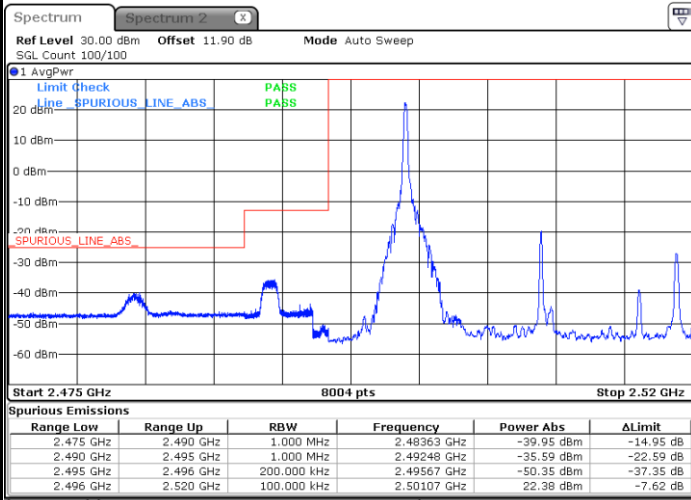


Date: 5 SEP.2017 18:50:30



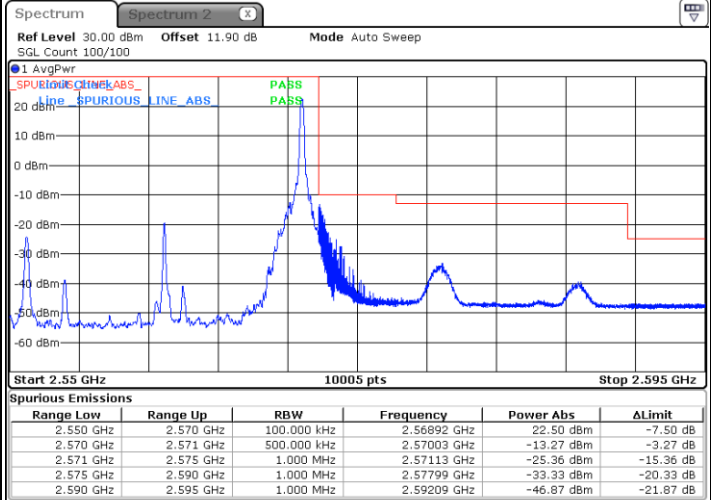
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



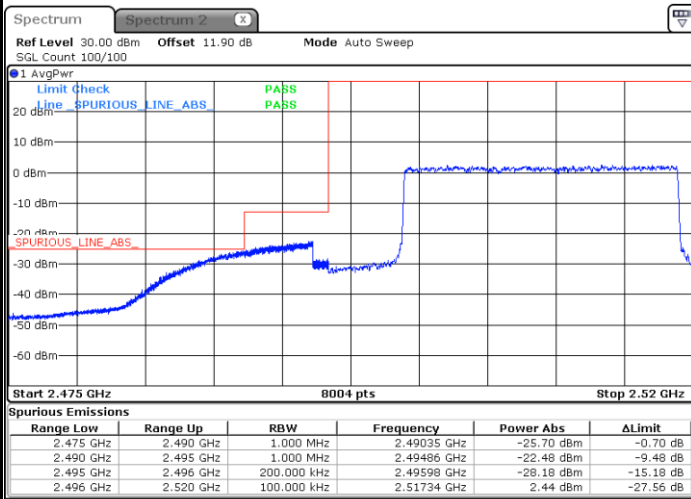
Date: 5 SEP.2017 18:54:06

Highest Band Edge / 1 RB



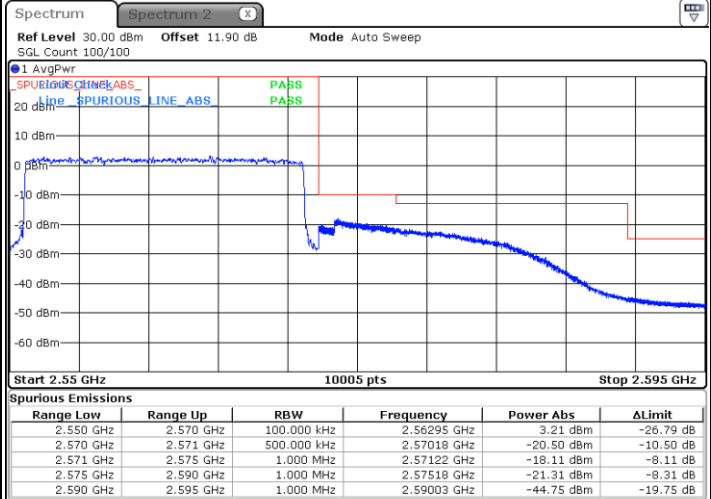
Date: 5 SEP.2017 19:03:37

Lowest Band Edge / Full RB



Date: 5 SEP.2017 19:20:20

Highest Band Edge / Full RB

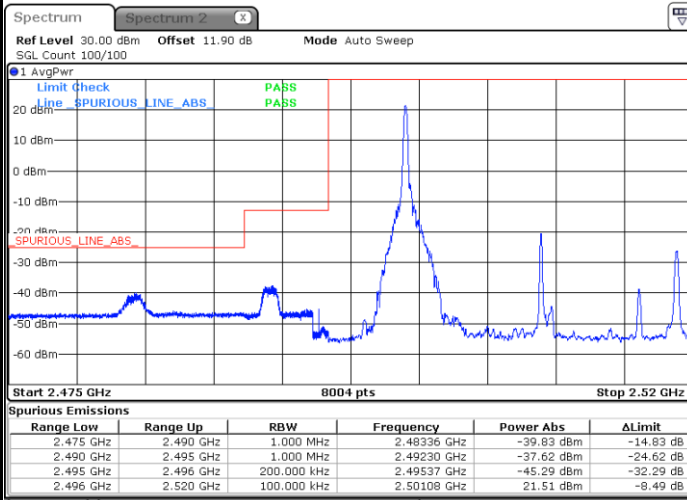


Date: 5 SEP.2017 19:07:04



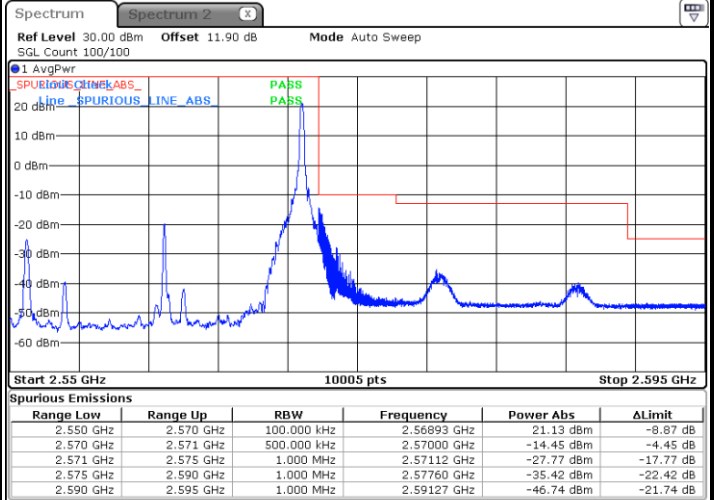
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



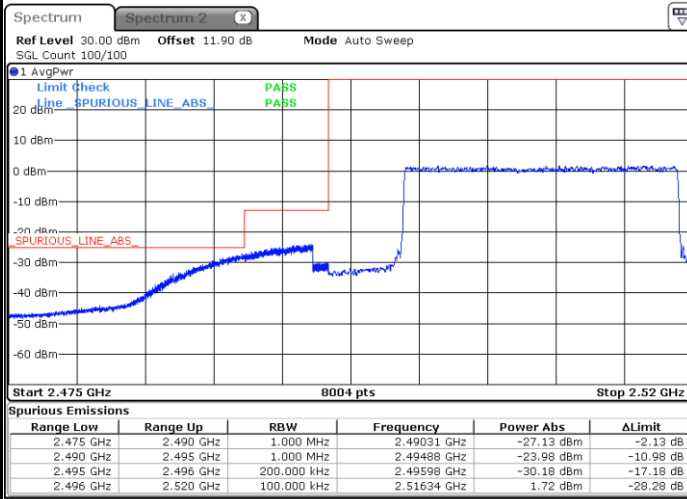
Date: 5 SEP.2017 18:55:16

Highest Band Edge / 1RB



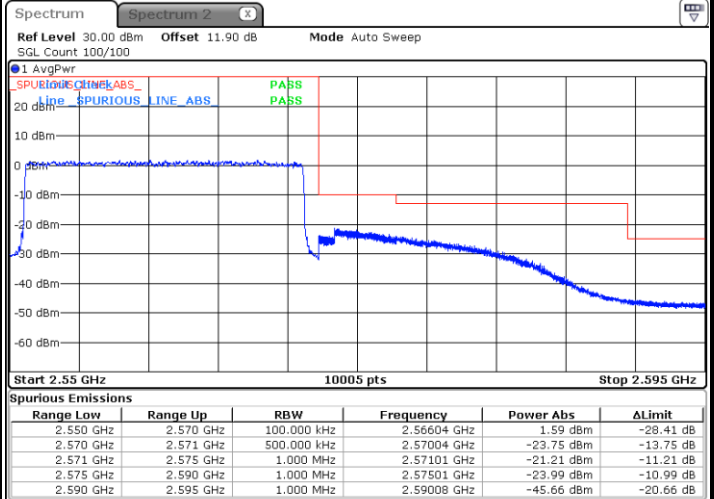
Date: 5 SEP.2017 19:04:46

Lowest Band Edge / Full RB



Date: 5 SEP.2017 18:57:34

Highest Band Edge / Full RB



Date: 5 SEP.2017 19:05:55





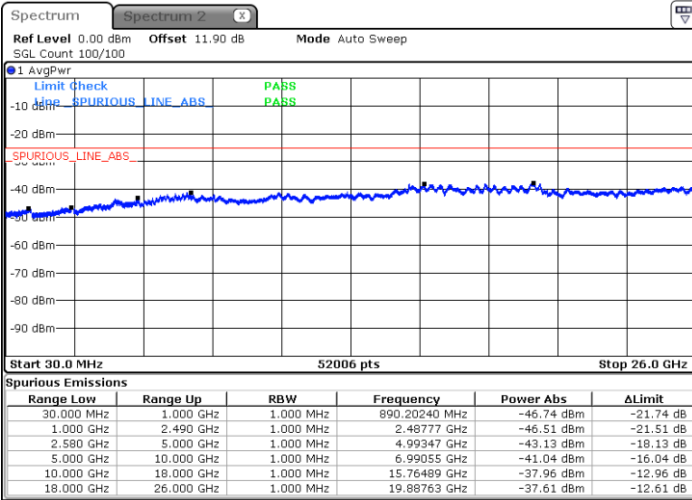
**Conducted Spurious Emission**



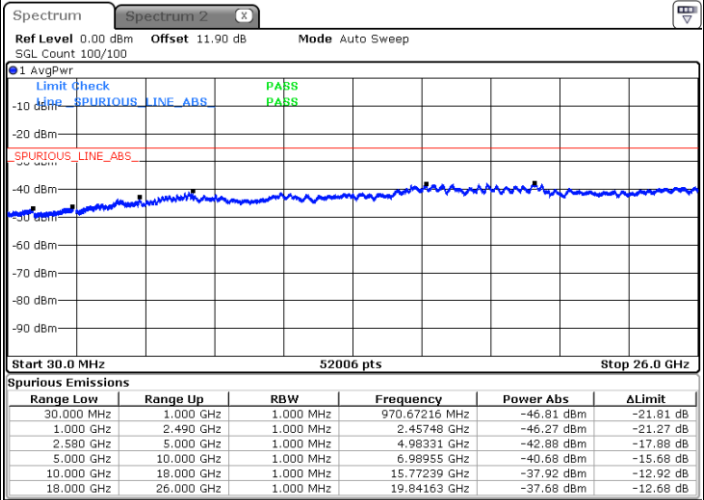
LTE Band 7 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



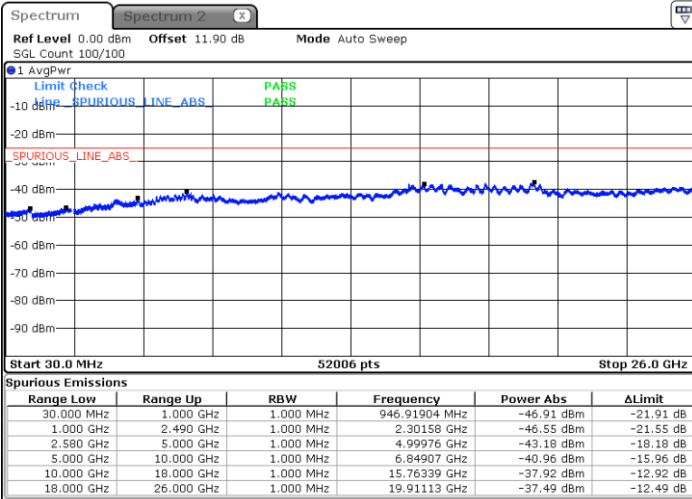
Date: 5 SEP.2017 18:08:46



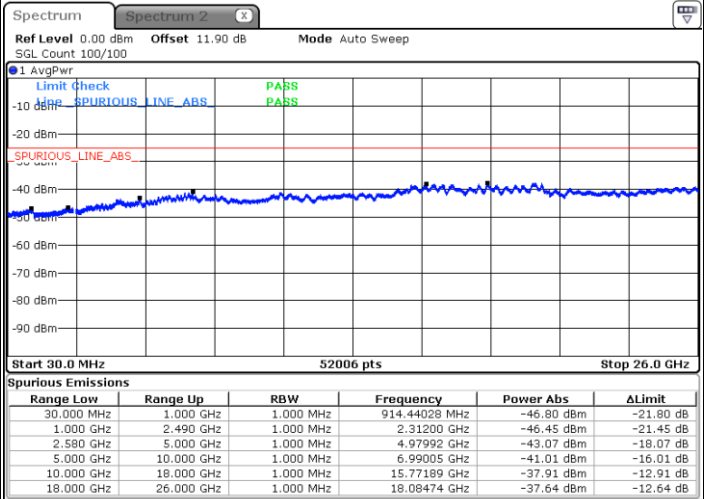
Date: 5 SEP.2017 18:09:39

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 5 SEP.2017 18:11:13

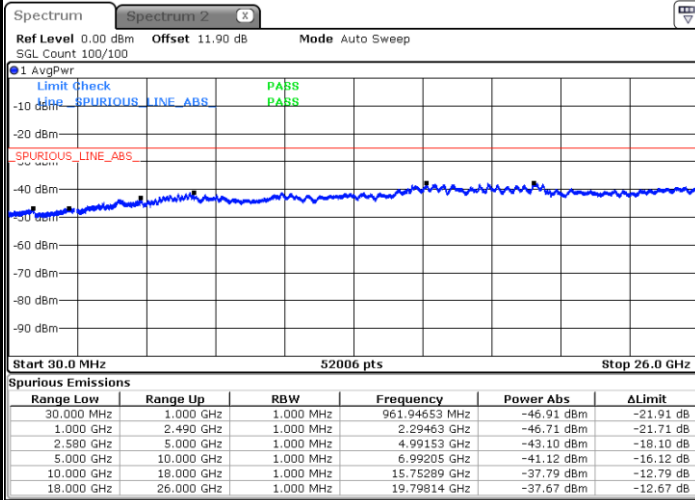


Date: 5 SEP.2017 18:12:06



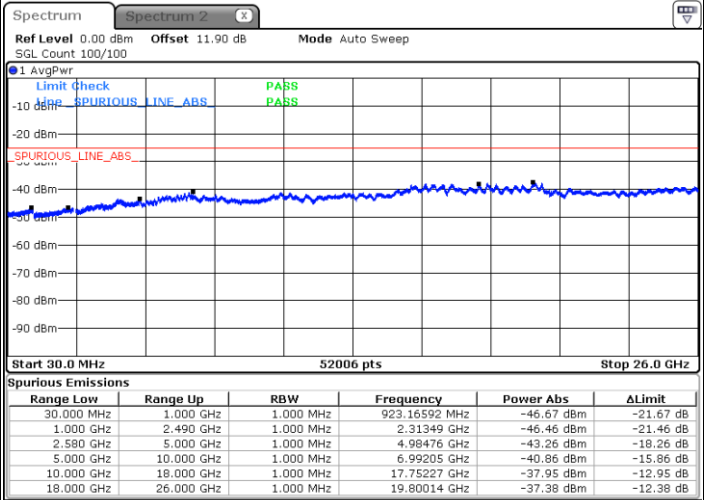
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 5 SEP.2017 18:18:17

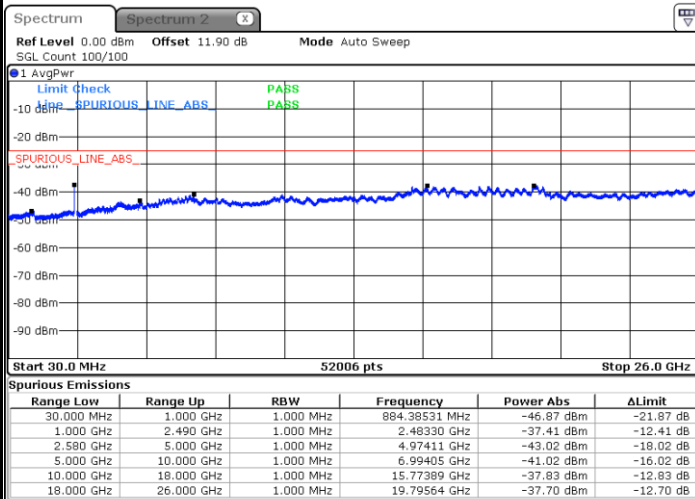
Highest Channel / 16QAM



Date: 5 SEP.2017 18:19:10

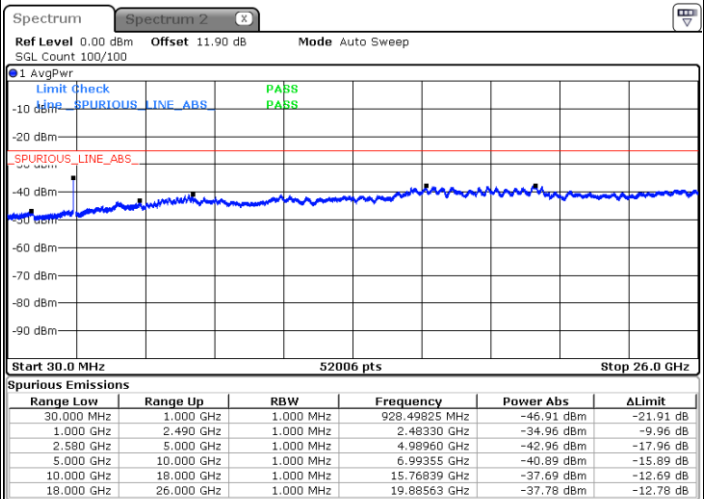
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 5 SEP.2017 18:25:20

Lowest Channel / 16QAM



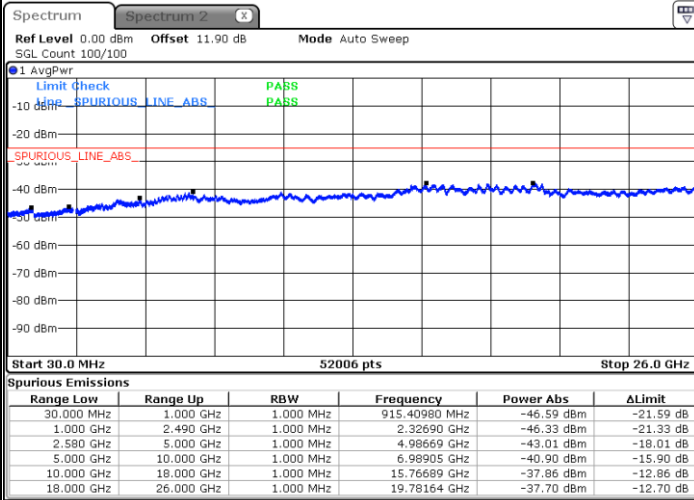
Date: 5 SEP.2017 18:26:13



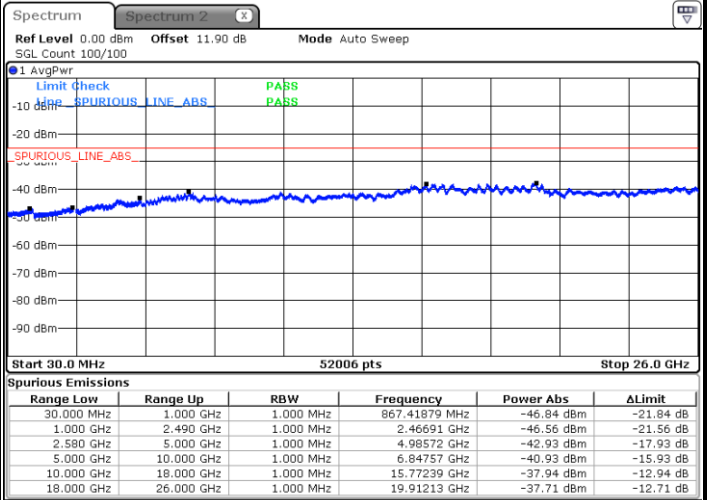
LTE Band 7 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



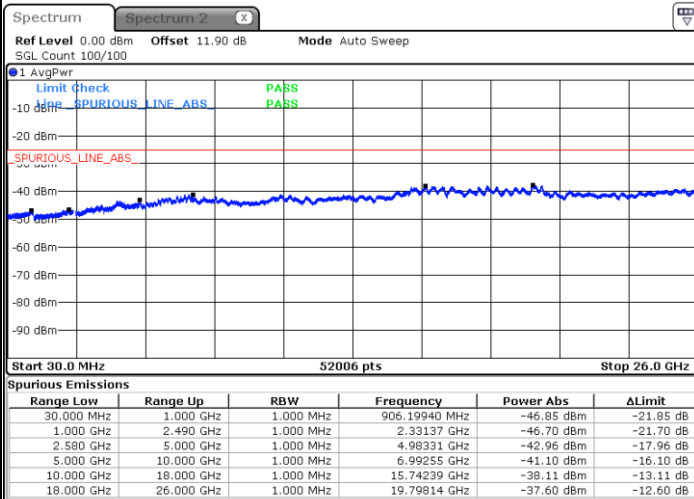
Date: 5 SEP.2017 18:27:47



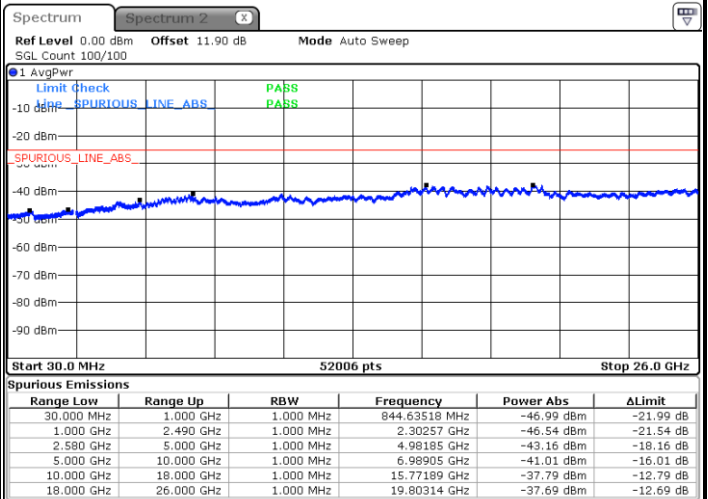
Date: 5 SEP.2017 18:28:40

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5 SEP.2017 18:34:50

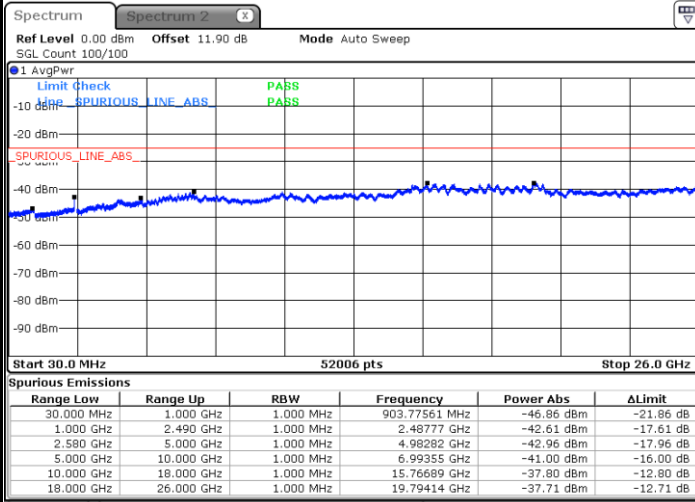


Date: 5 SEP.2017 18:35:43



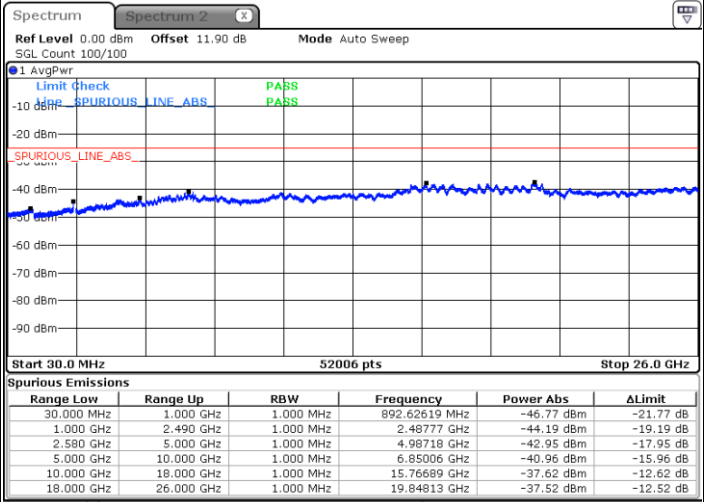
LTE Band 7 / 15MHz

Lowest Channel / QPSK



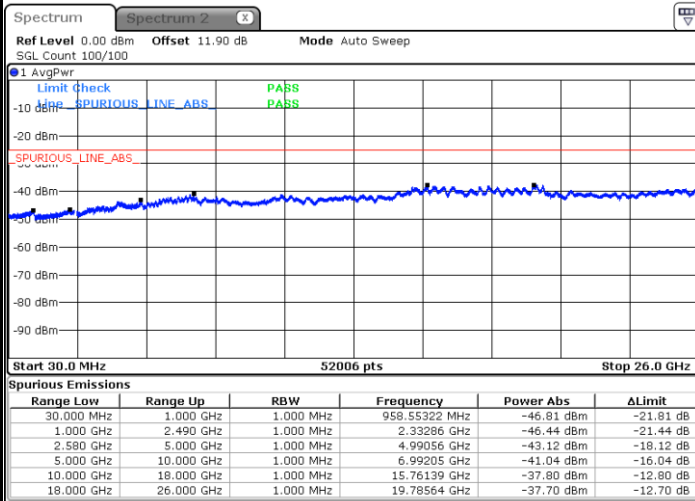
Date: 5 SEP.2017 18:41:54

Lowest Channel / 16QAM



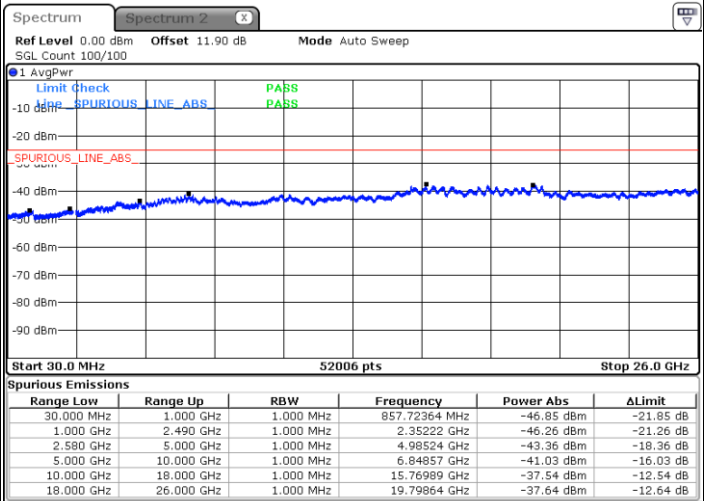
Date: 5 SEP.2017 18:42:47

Middle Channel / QPSK



Date: 5 SEP.2017 18:44:20

Middle Channel / 16QAM

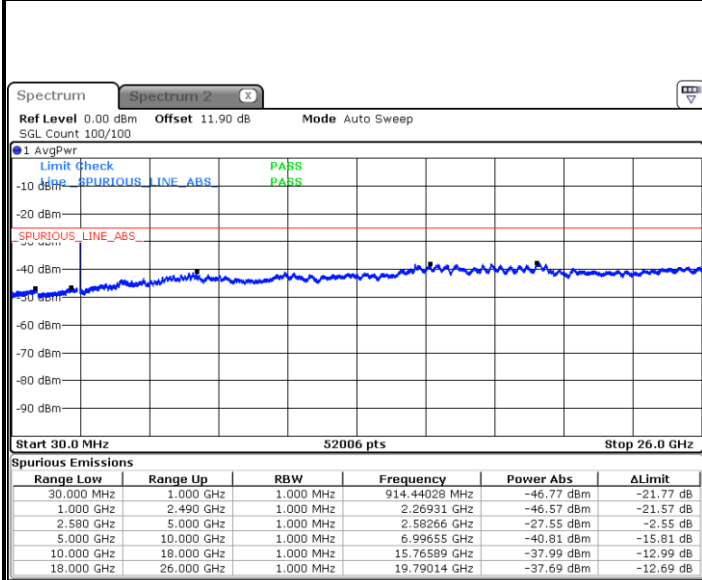


Date: 5 SEP.2017 18:45:13



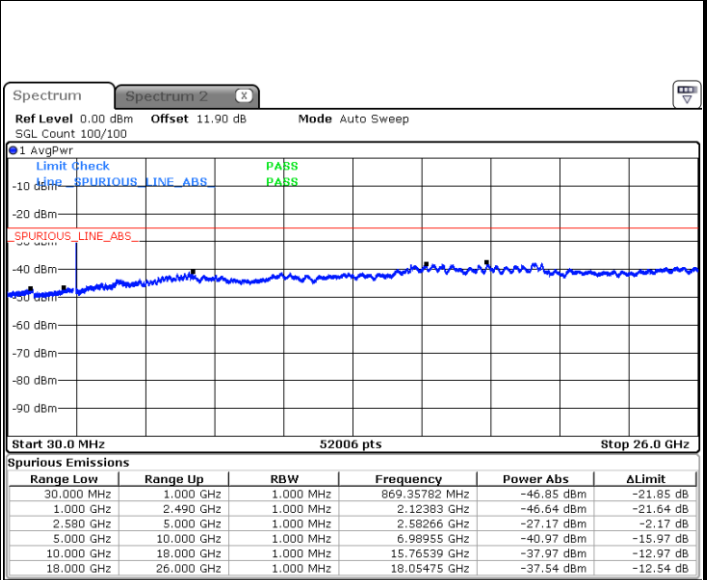
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 5 SEP.2017 18:51:24

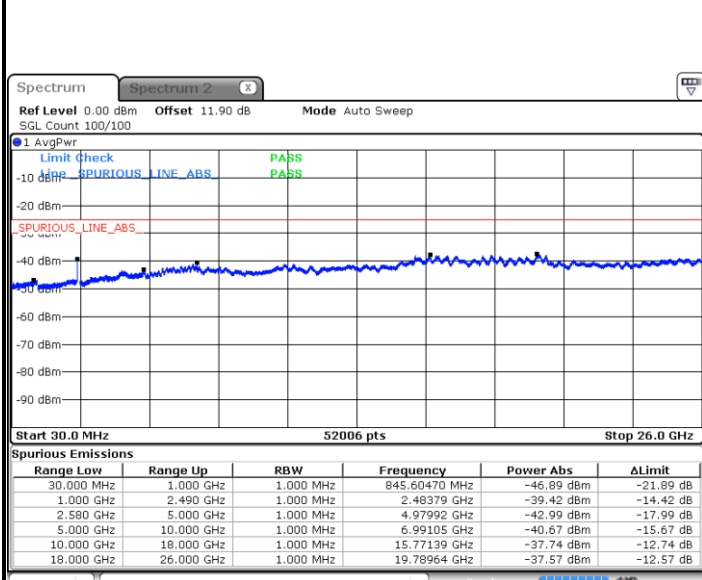
Highest Channel / 16QAM



Date: 5 SEP.2017 18:52:17

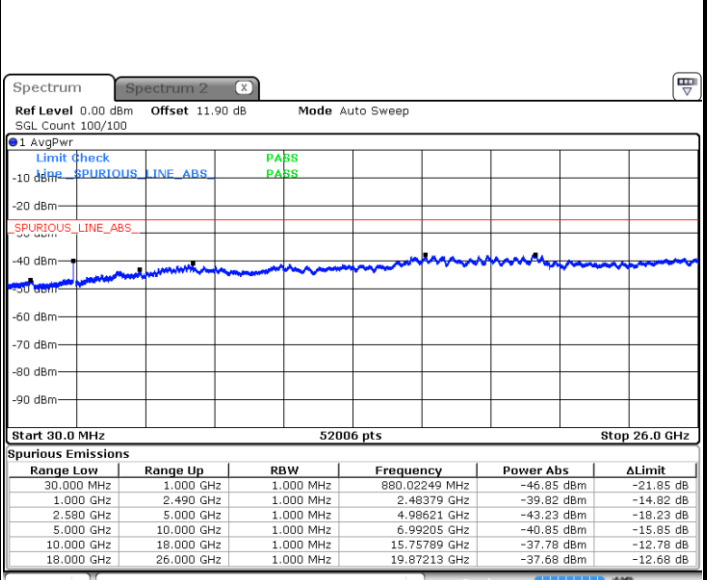
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 5 SEP.2017 18:58:28

Lowest Channel / 16QAM



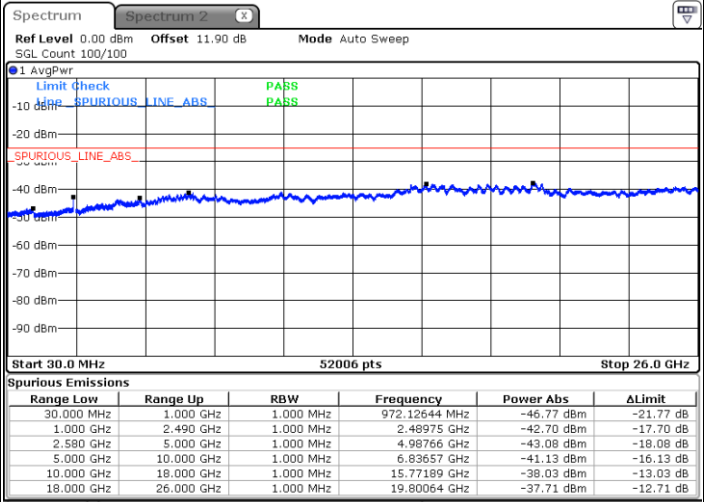
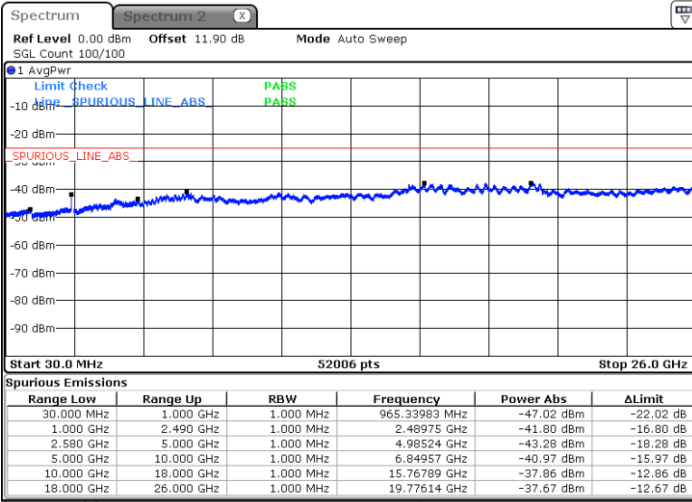
Date: 5 SEP.2017 18:59:21



LTE Band 7 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

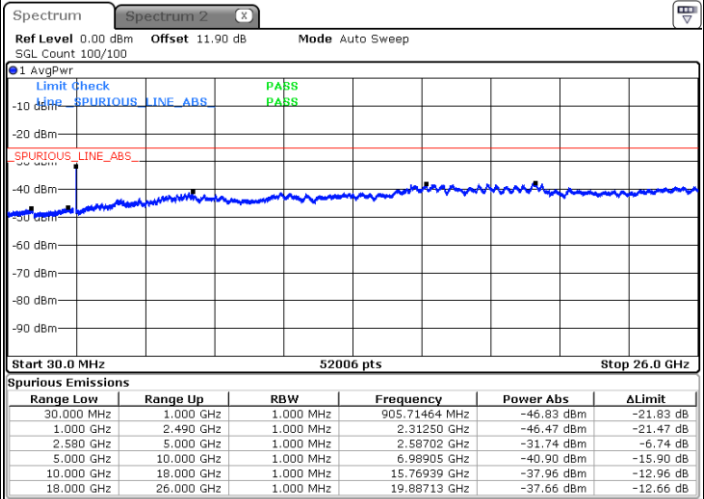
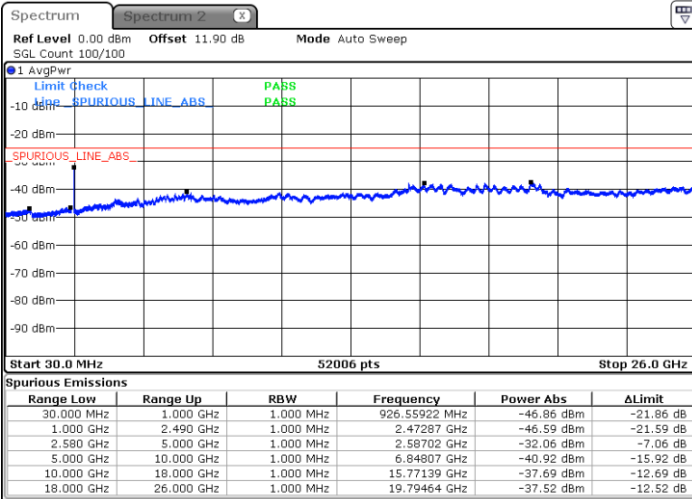


Date: 5 SEP.2017 19:00:54

Date: 5 SEP.2017 19:01:48

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5 SEP.2017 19:07:58

Date: 5 SEP.2017 19:08:51



**Frequency Stability**

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0082	
30	Normal Voltage	0.0085	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0090	
-10	Normal Voltage	0.0090	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0087	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

**Note:**

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.





## LTE Band 41

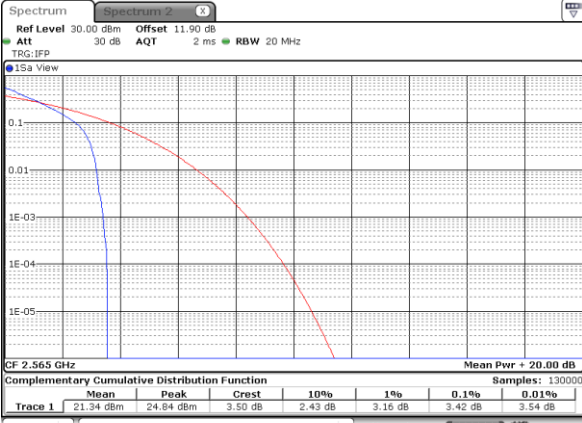
### Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.42	4.81	4.52	5.8	PASS
Middle CH	3.04	4.78	4.17	5.77	
Highest CH	3.19	4.32	4.03	5.39	



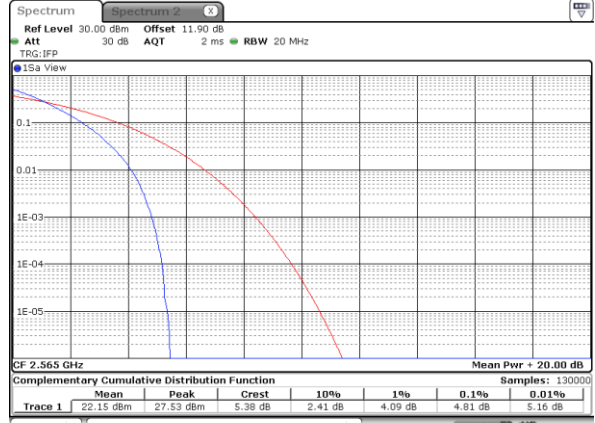
LTE Band 41 / 20MHz / QPSK

Lowest Channel / 1RB



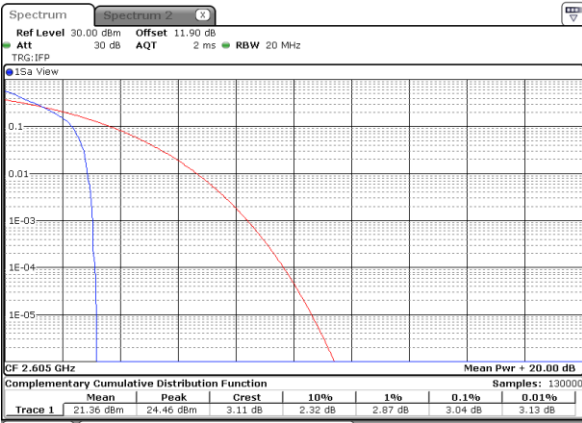
Date: 5 SEP 2017 20:03:42

Lowest Channel / Full RB



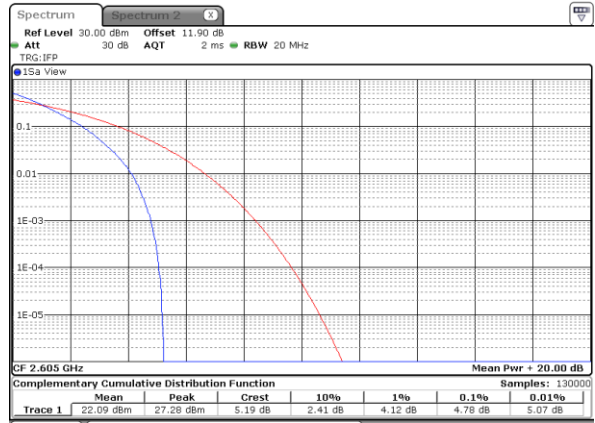
Date: 5 SEP 2017 20:03:55

Middle Channel / 1RB



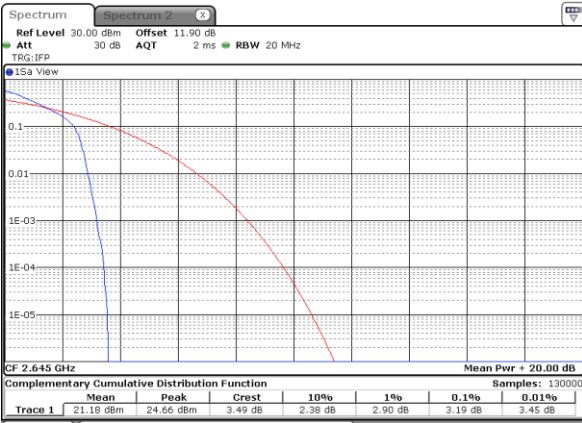
Date: 5 SEP 2017 20:04:09

Middle Channel / Full RB



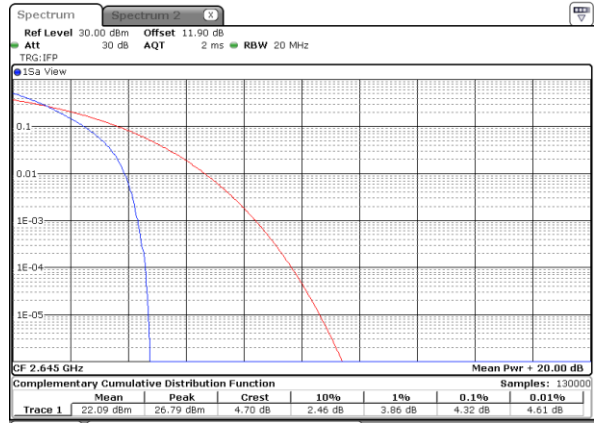
Date: 5 SEP 2017 20:04:22

Highest Channel / 1RB



Date: 5 SEP 2017 20:04:40

Highest Channel / Full RB



Date: 5 SEP 2017 20:04:54