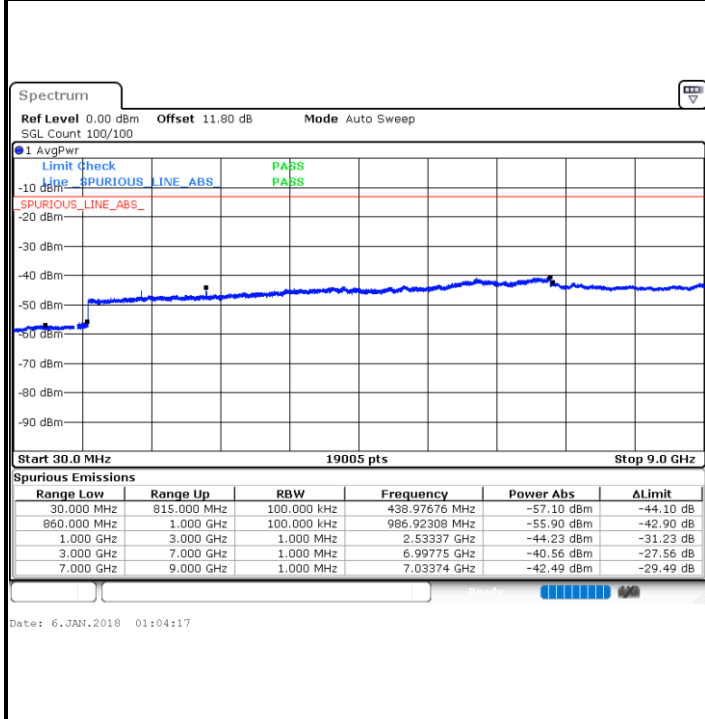


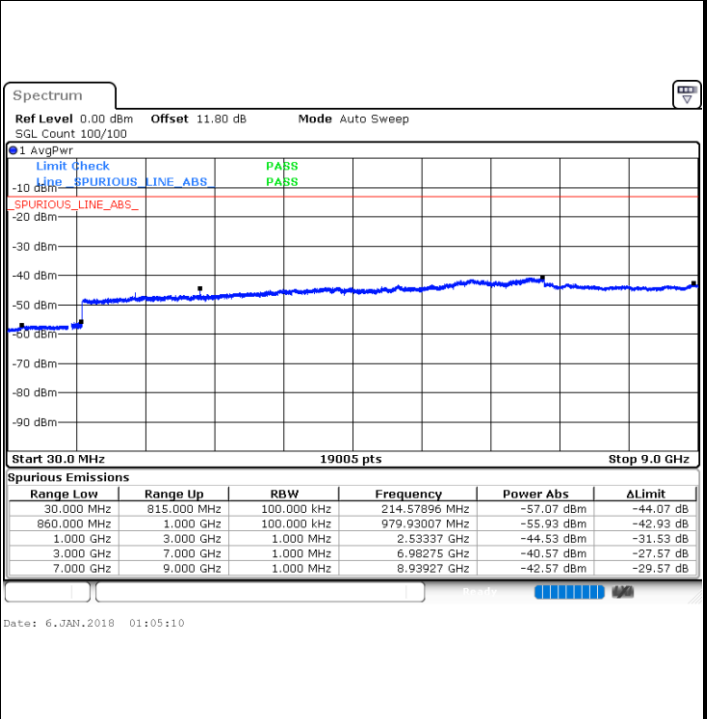


LTE Band 5 / 5MHz

Highest Channel / QPSK

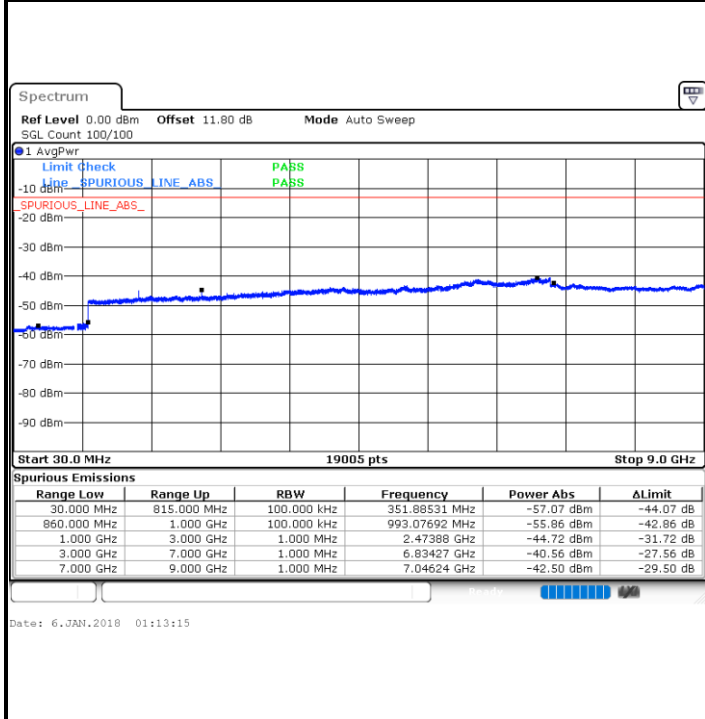


Highest Channel / 16QAM

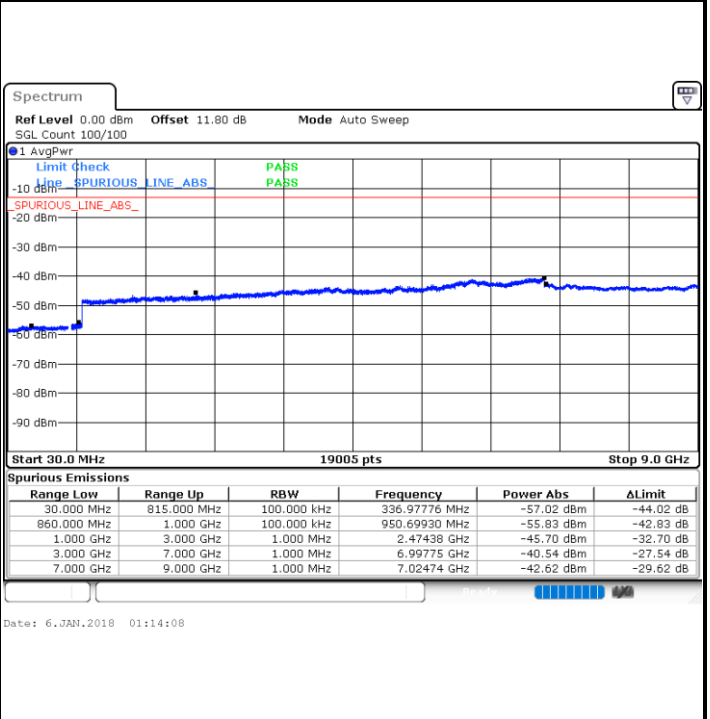


LTE Band 5 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

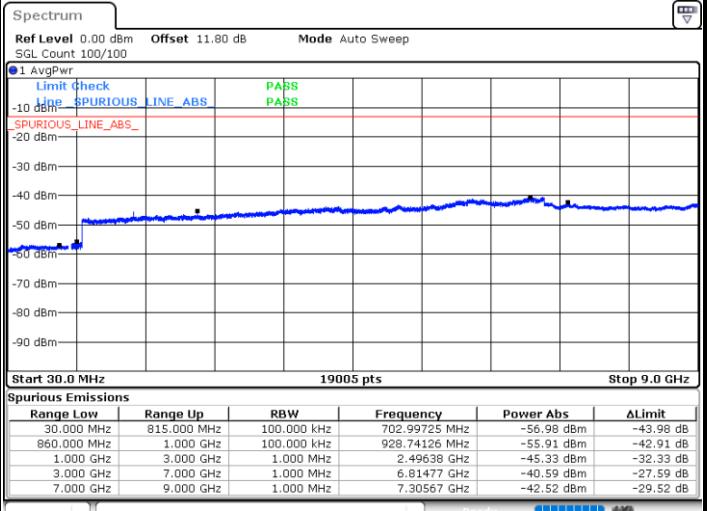
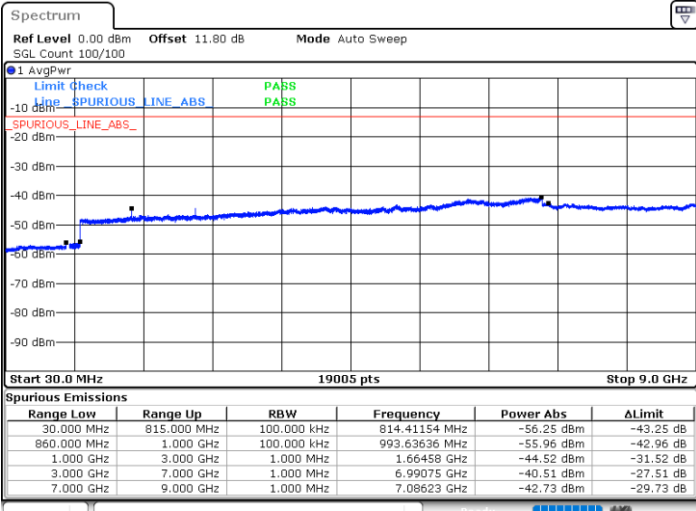




LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

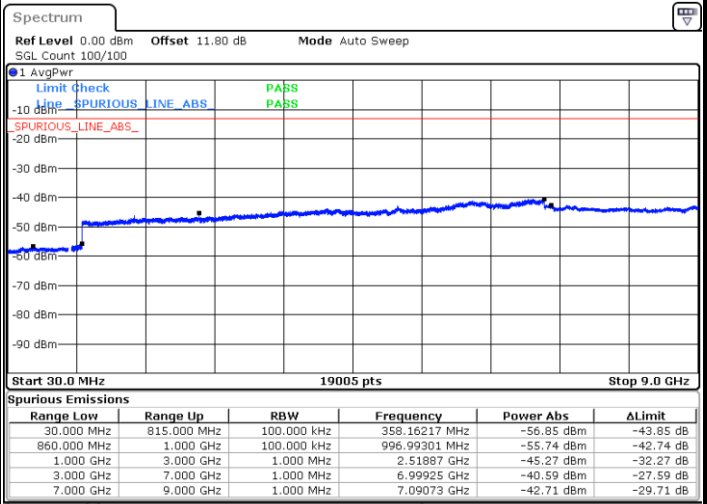
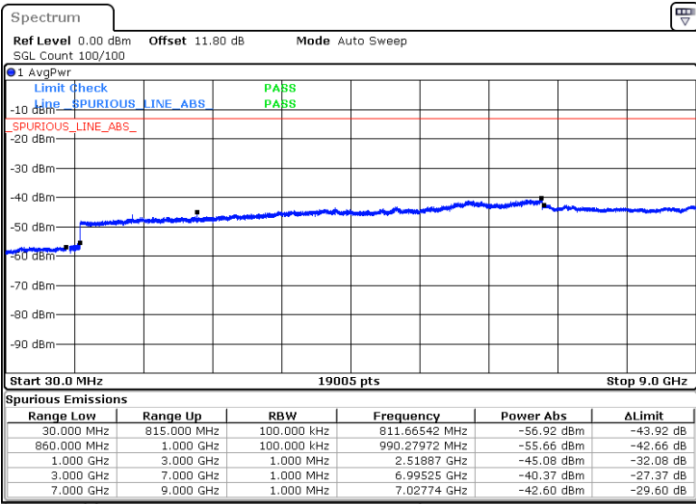


Date: 6. JAN. 2018 01:15:40

Date: 6. JAN. 2018 01:16:33

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6. JAN. 2018 01:24:37

Date: 6. JAN. 2018 01:25:30



### 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	0.0018	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0056	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

**Note:**

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



## LTE Band 7

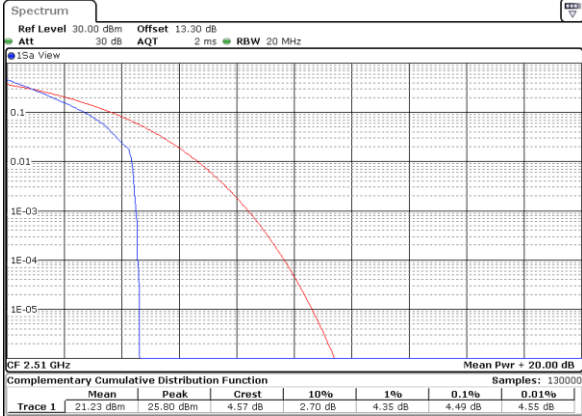
### Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.49	4.75	5.48	5.74	<b>PASS</b>
Middle CH	4.32	4.84	5.65	5.91	
Highest CH	4.81	4.99	5.86	6.00	



LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



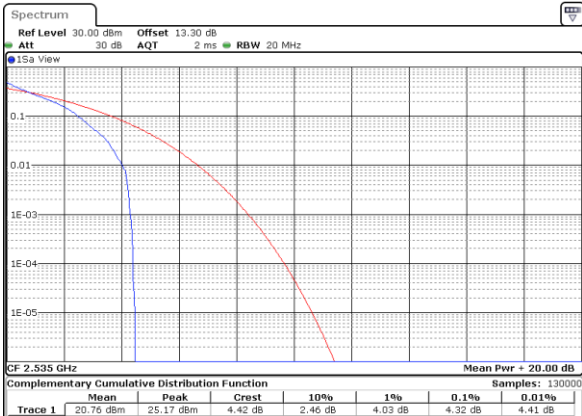
Date: 29\_JAN\_2018 20:07:20

Lowest Channel / Full RB



Date: 29\_JAN\_2018 20:07:30

Middle Channel / 1RB



Date: 29\_JAN\_2018 20:07:40

Middle Channel / Full RB



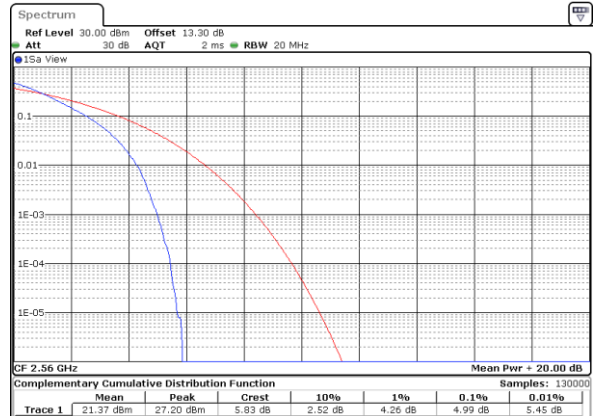
Date: 29\_JAN\_2018 20:07:50

Highest Channel / 1RB



Date: 29\_JAN\_2018 20:08:00

Highest Channel / Full RB

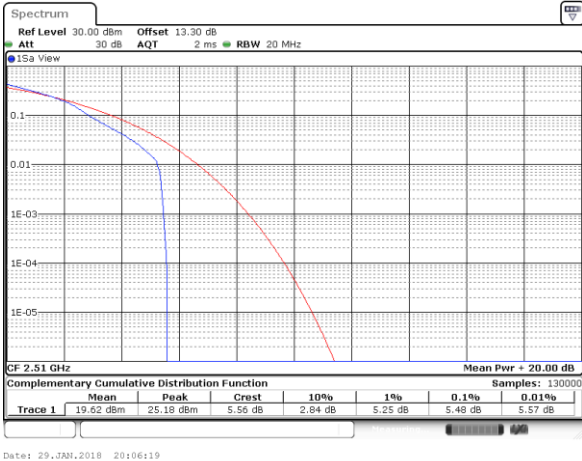


Date: 29\_JAN\_2018 20:08:09



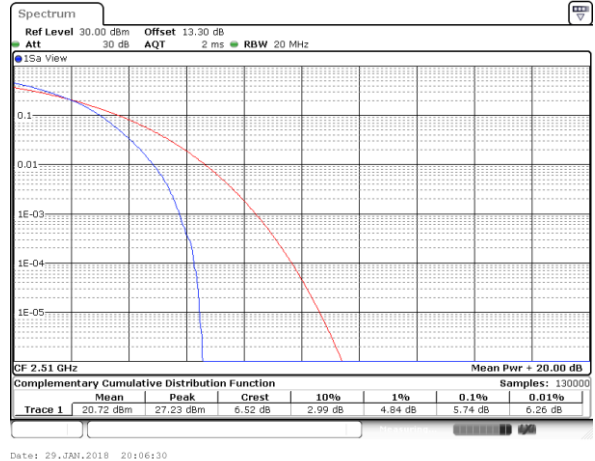
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



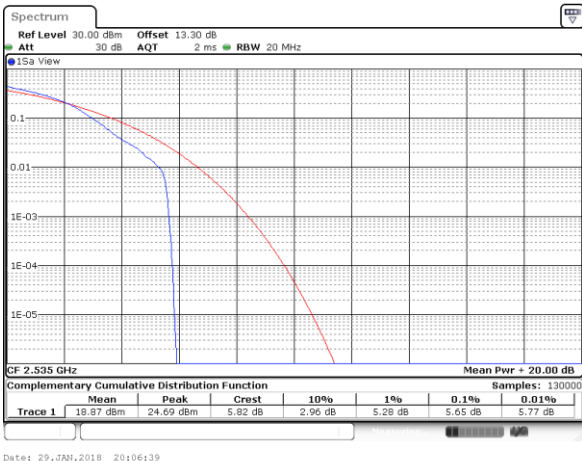
Date: 29\_JAN\_2018 20:06:19

Lowest Channel / Full RB



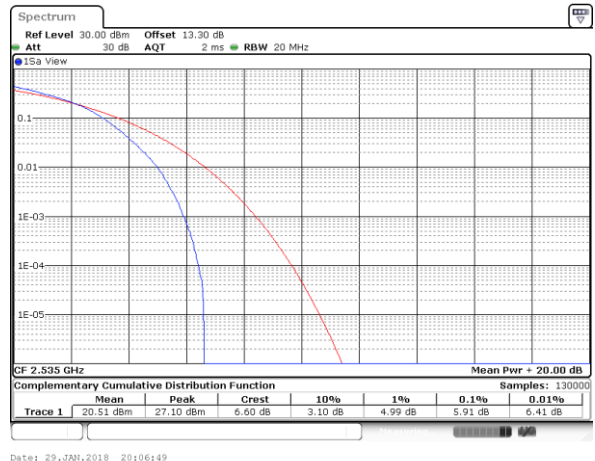
Date: 29\_JAN\_2018 20:06:30

Middle Channel / 1RB



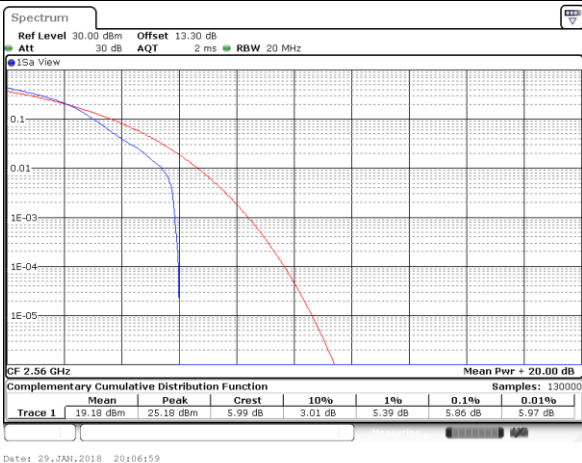
Date: 29\_JAN\_2018 20:06:39

Middle Channel / Full RB



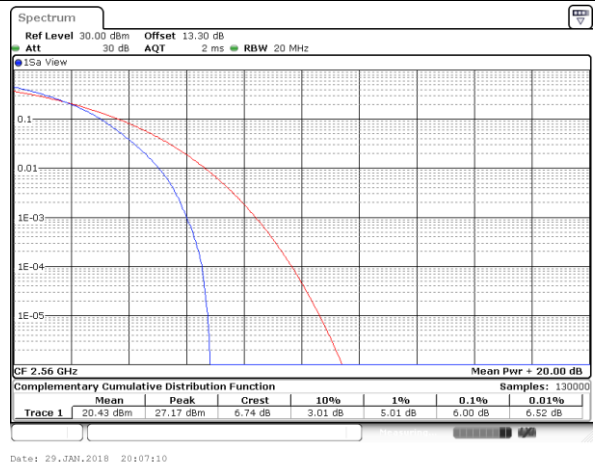
Date: 29\_JAN\_2018 20:06:49

Highest Channel / 1RB



Date: 29\_JAN\_2018 20:06:59

Highest Channel / Full RB



Date: 29\_JAN\_2018 20:07:10



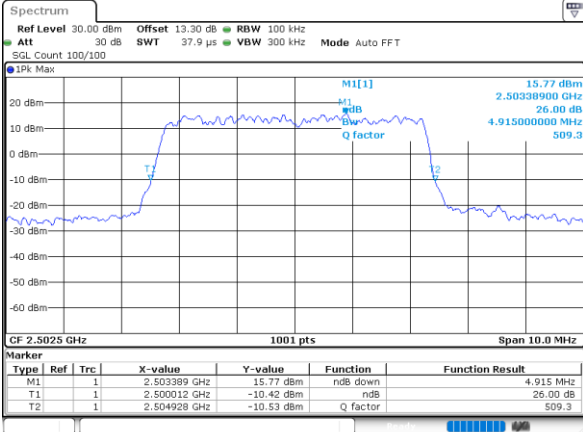
**26dB Bandwidth**

Mode	LTE Band 7 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.92	4.95	9.75	9.91	14.45	14.18	20.14	19.98
Middle CH	-	-	-	-	4.93	4.90	9.69	9.73	14.39	14.42	20.10	20.18
Highest CH	-	-	-	-	4.93	4.96	9.87	9.79	14.21	14.24	20.22	20.14



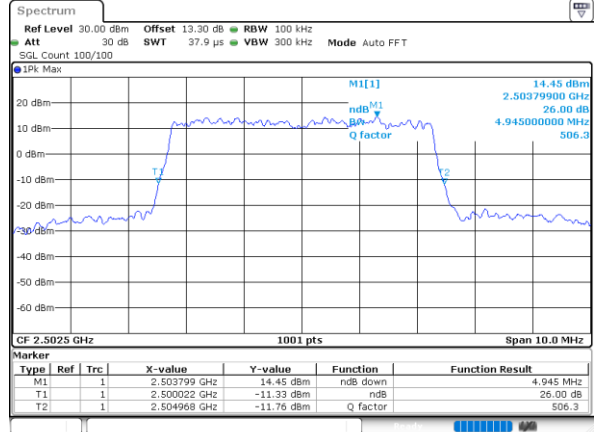
LTE Band 7

Lowest Channel / 5MHz / QPSK



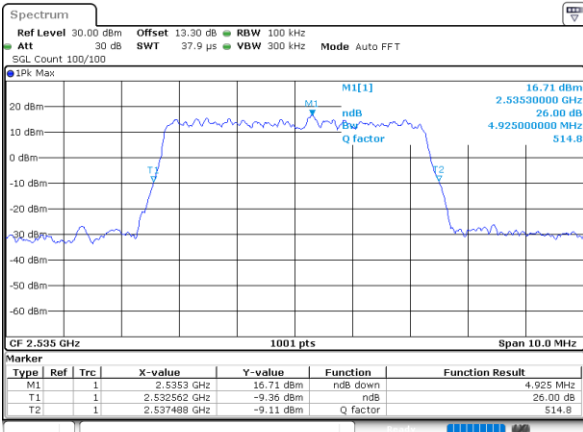
Date: 6, JAN, 2018 21:37:52

Lowest Channel / 5MHz / 16QAM



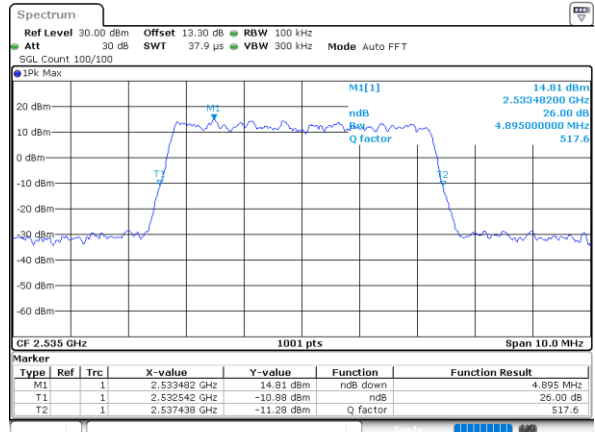
Date: 6, JAN, 2018 21:38:02

Middle Channel / 5MHz / QPSK



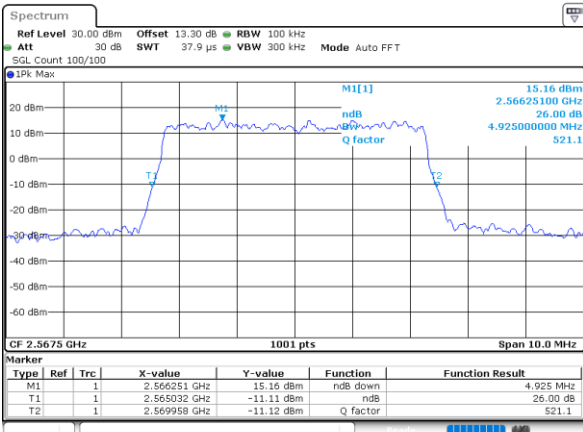
Date: 6, JAN, 2018 21:44:49

Middle Channel / 5MHz / 16QAM



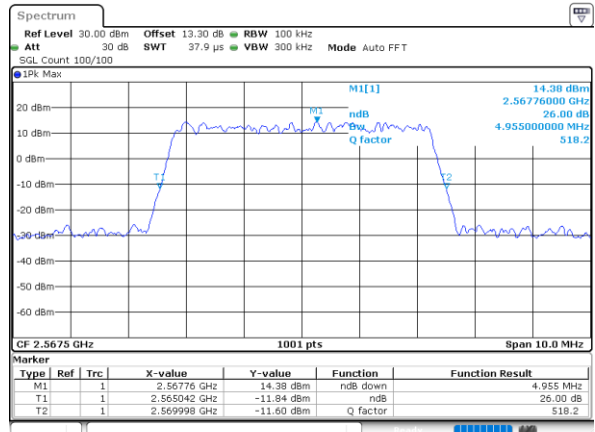
Date: 6, JAN, 2018 21:44:59

Highest Channel / 5MHz / QPSK



Date: 6, JAN, 2018 21:50:21

Highest Channel / 5MHz / 16QAM



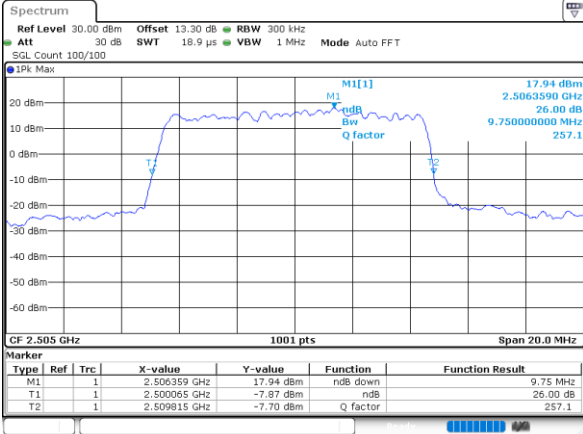
Date: 6, JAN, 2018 21:50:31





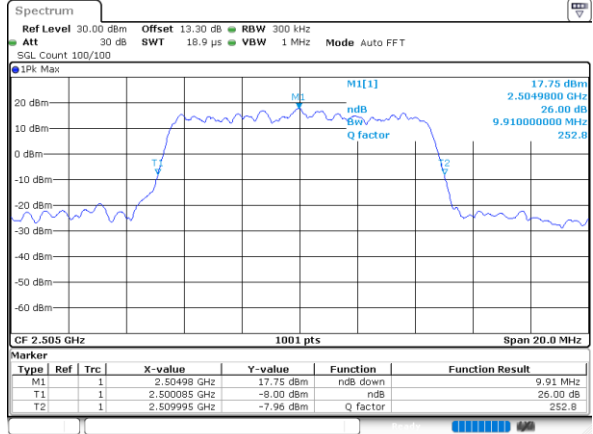
LTE Band 7

Lowest Channel / 10MHz / QPSK



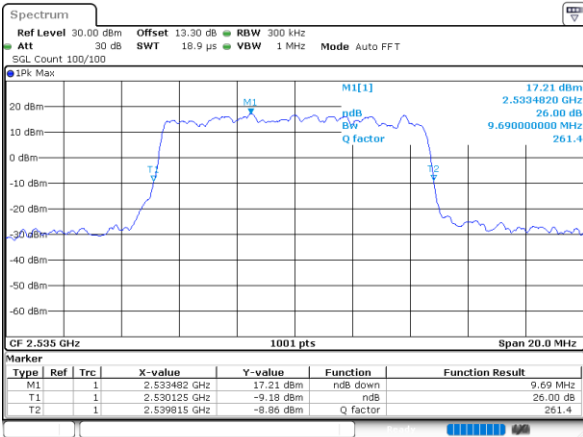
Date: 6, JAN, 2018 21:57:19

Lowest Channel / 10MHz / 16QAM



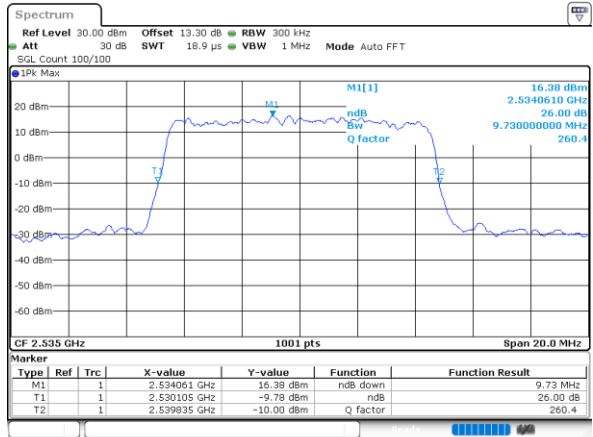
Date: 6, JAN, 2018 21:57:29

Middle Channel / 10MHz / QPSK



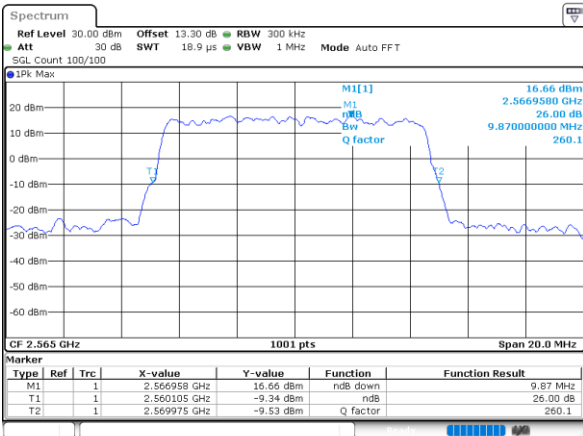
Date: 6, JAN, 2018 22:04:16

Middle Channel / 10MHz / 16QAM



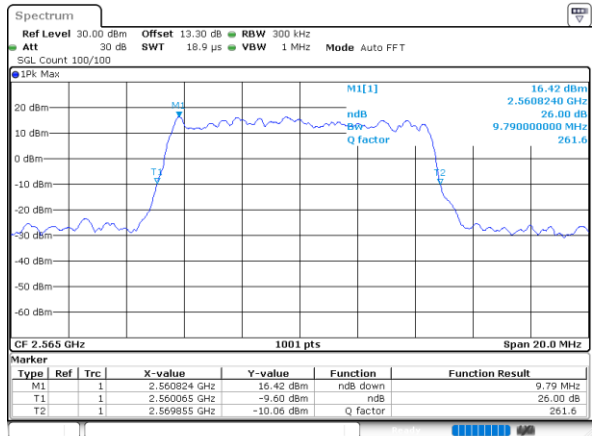
Date: 6, JAN, 2018 22:04:26

Highest Channel / 10MHz / QPSK



Date: 6, JAN, 2018 22:06:41

Highest Channel / 10MHz / 16QAM

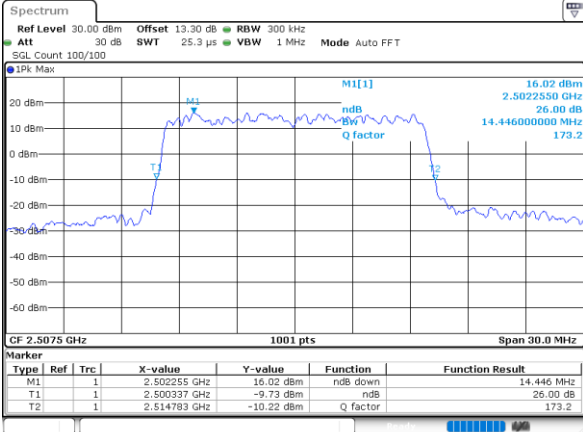


Date: 6, JAN, 2018 22:06:51



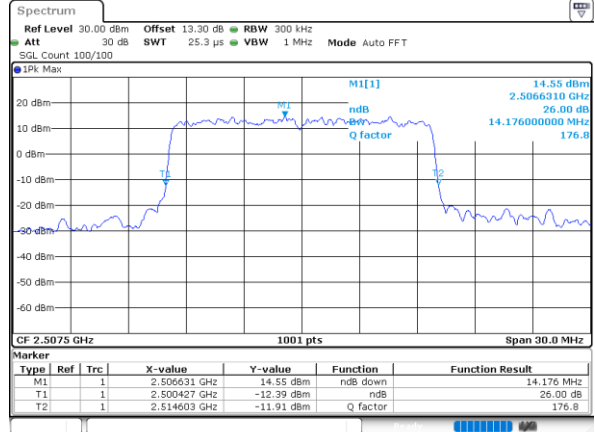
LTE Band 7

Lowest Channel / 15MHz / QPSK



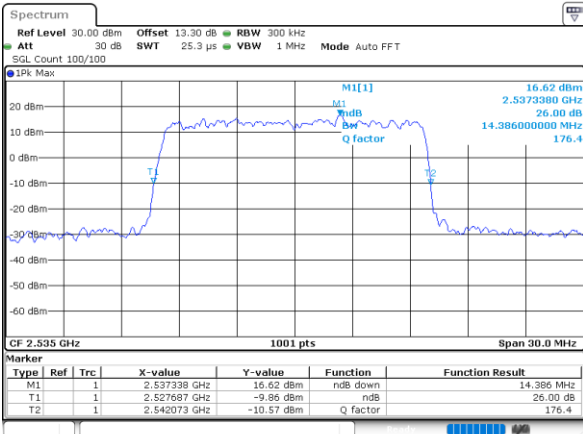
Date: 6, JAN, 2018 22:13:19

Lowest Channel / 15MHz / 16QAM



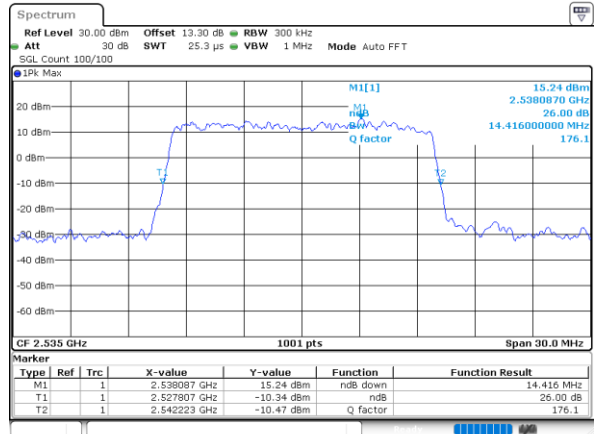
Date: 6, JAN, 2018 22:13:48

Middle Channel / 15MHz / QPSK



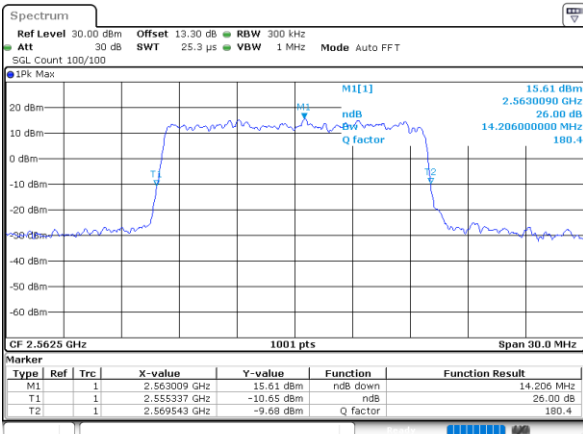
Date: 6, JAN, 2018 22:20:36

Middle Channel / 15MHz / 16QAM



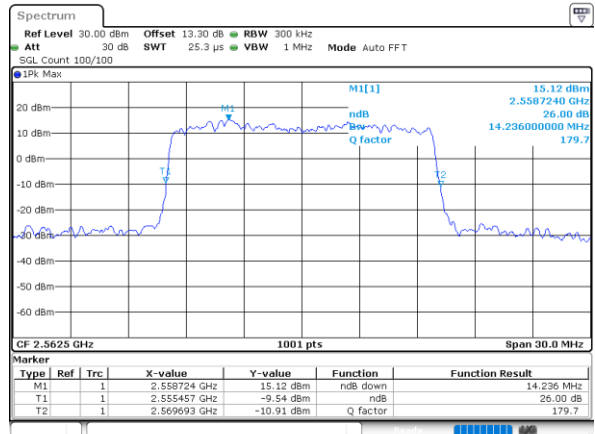
Date: 6, JAN, 2018 22:20:46

Highest Channel / 15MHz / QPSK



Date: 6, JAN, 2018 22:23:01

Highest Channel / 15MHz / 16QAM

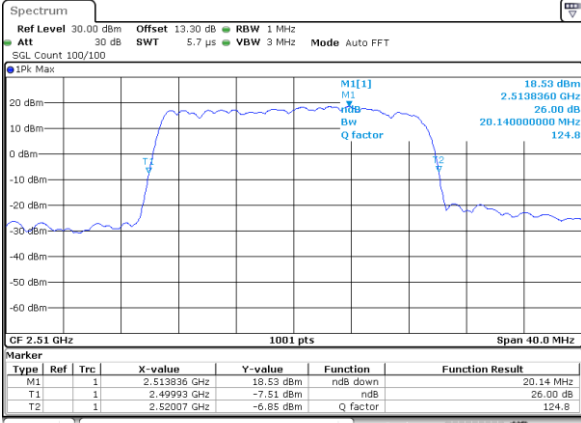


Date: 6, JAN, 2018 22:23:11



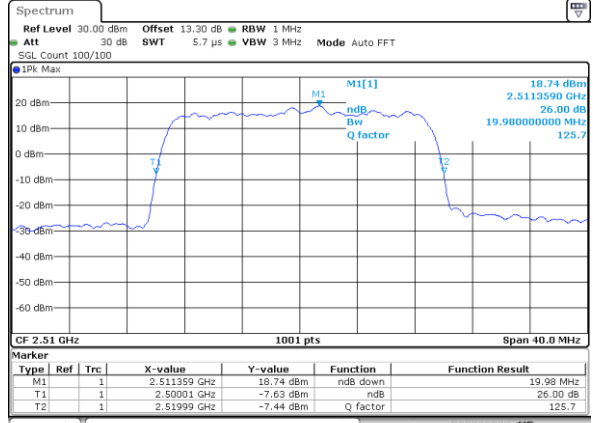
LTE Band 7

Lowest Channel / 20MHz / QPSK



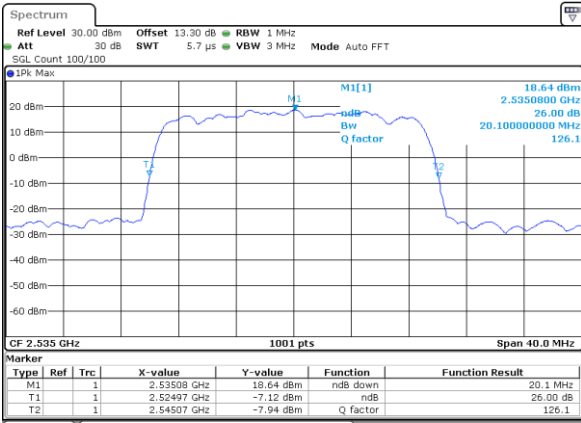
Date: 29\_JAN\_2018 20:04:24

Lowest Channel / 20MHz / 16QAM



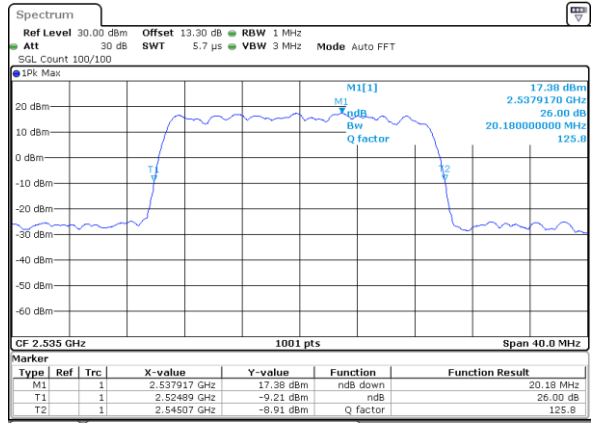
Date: 29\_JAN\_2018 20:04:35

Middle Channel / 20MHz / QPSK



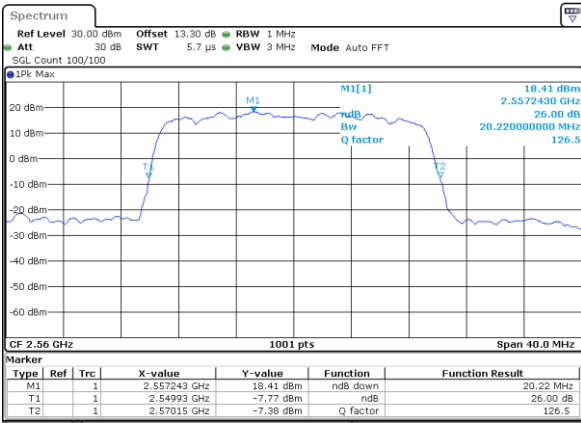
Date: 29\_JAN\_2018 20:05:09

Middle Channel / 20MHz / 16QAM



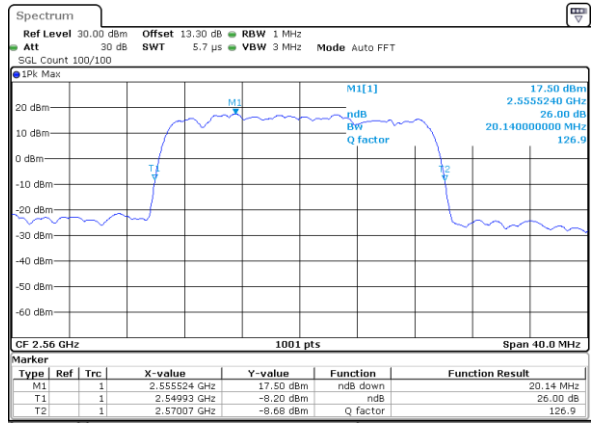
Date: 29\_JAN\_2018 20:05:20

Highest Channel / 20MHz / QPSK



Date: 29\_JAN\_2018 20:05:55

Highest Channel / 20MHz / 16QAM



Date: 29\_JAN\_2018 20:06:06



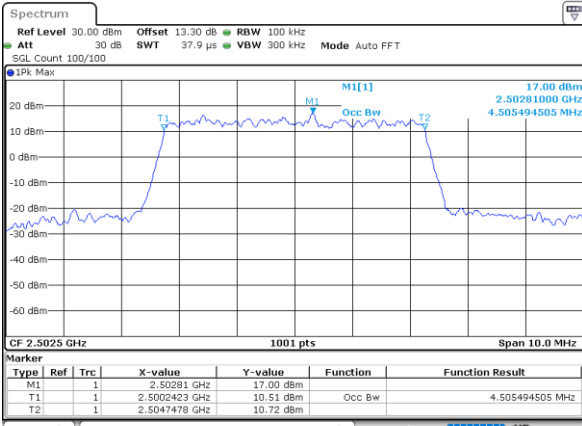
### Occupied Bandwidth

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	-	-	-	-	4.51	4.49	9.01	8.97	13.37	13.49	18.18	18.42
Middle CH	-	-	-	-	4.48	4.48	9.03	9.05	13.43	13.43	18.26	18.38
Highest CH	-	-	-	-	4.49	4.48	9.05	9.03	13.34	13.40	18.14	18.42



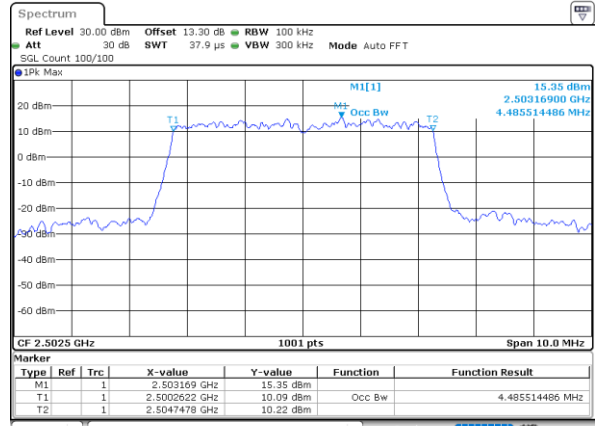
LTE Band 7

Lowest Channel / 5MHz / QPSK



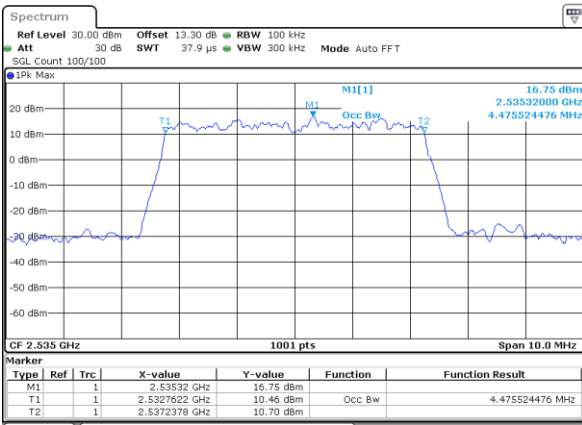
Date: 6, JAN, 2018 21:37:32

Lowest Channel / 5MHz / 16QAM



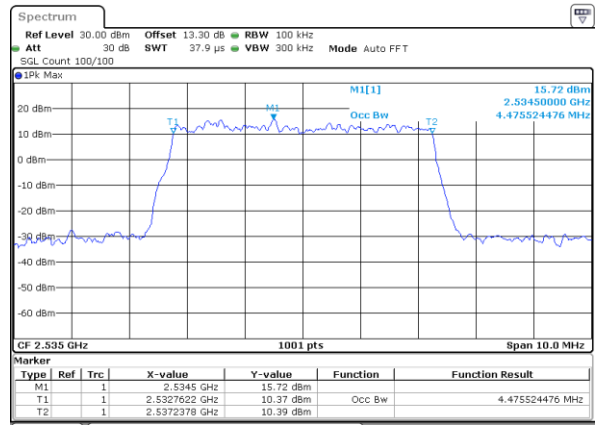
Date: 6, JAN, 2018 21:37:42

Middle Channel / 5MHz / QPSK



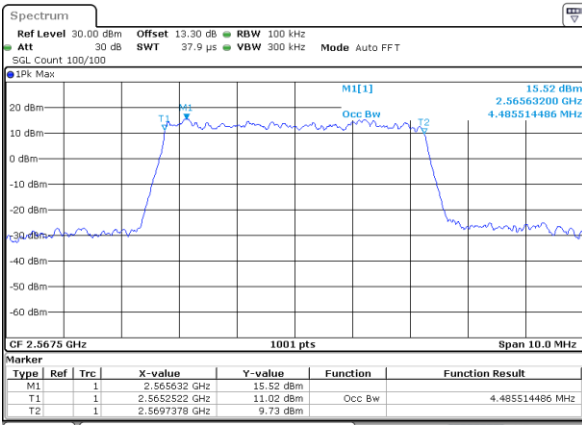
Date: 6, JAN, 2018 21:44:20

Middle Channel / 5MHz / 16QAM



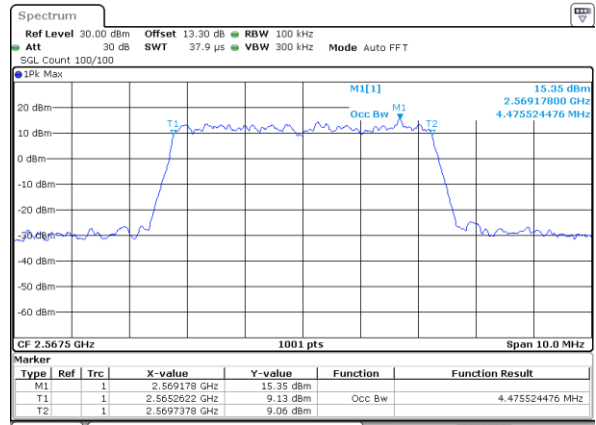
Date: 6, JAN, 2018 21:44:39

Highest Channel / 5MHz / QPSK



Date: 6, JAN, 2018 21:50:01

Highest Channel / 5MHz / 16QAM

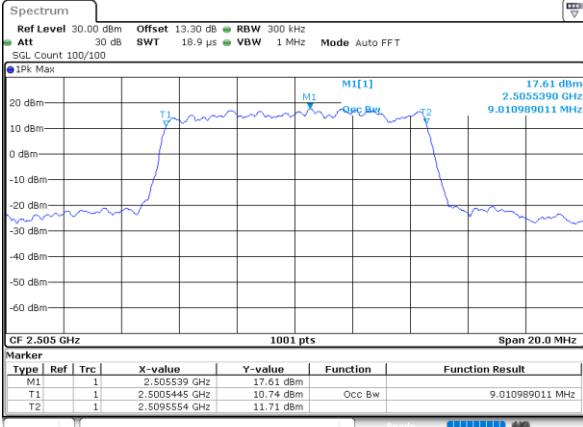


Date: 6, JAN, 2018 21:50:11



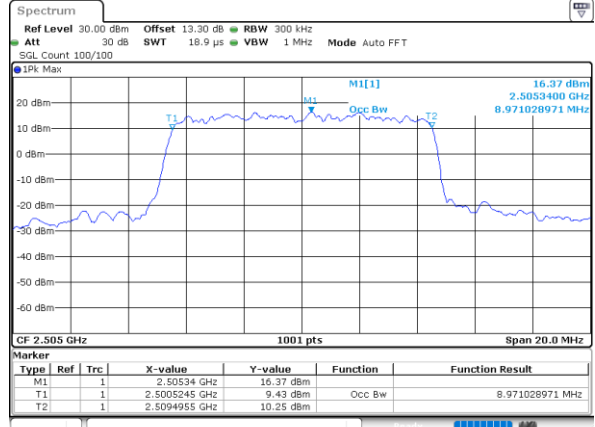
LTE Band 7

Lowest Channel / 10MHz / QPSK



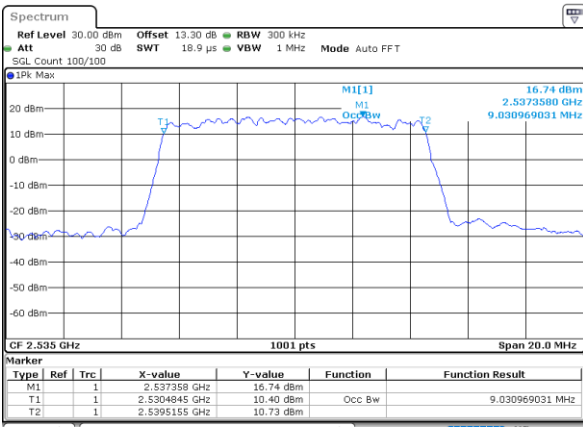
Date: 6, JAN, 2018 21:56:59

Lowest Channel / 10MHz / 16QAM



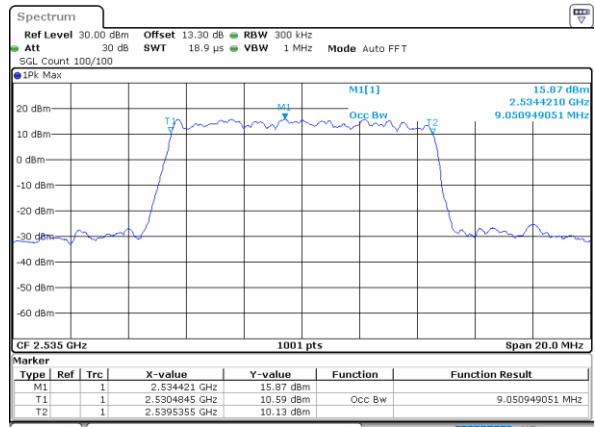
Date: 6, JAN, 2018 21:57:09

Middle Channel / 10MHz / QPSK



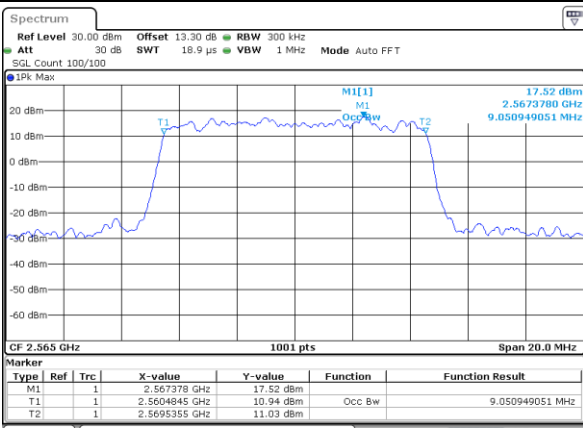
Date: 6, JAN, 2018 22:03:56

Middle Channel / 10MHz / 16QAM



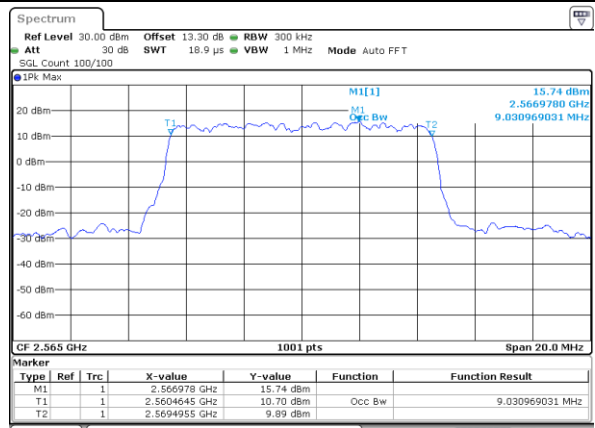
Date: 6, JAN, 2018 22:04:06

Highest Channel / 10MHz / QPSK



Date: 6, JAN, 2018 22:06:21

Highest Channel / 10MHz / 16QAM

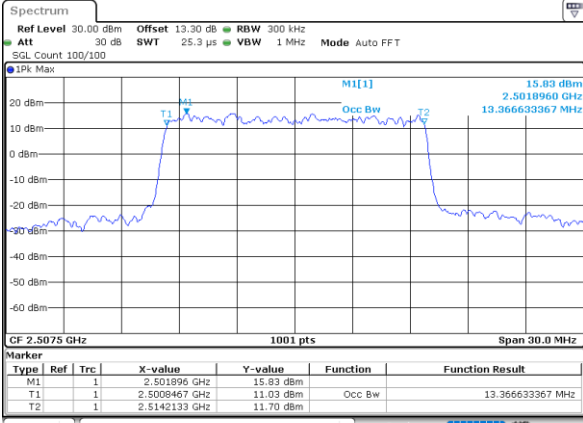


Date: 6, JAN, 2018 22:06:31



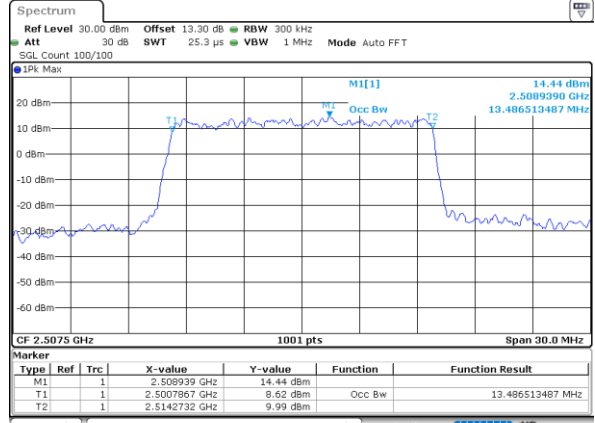
LTE Band 7

Lowest Channel / 15MHz / QPSK



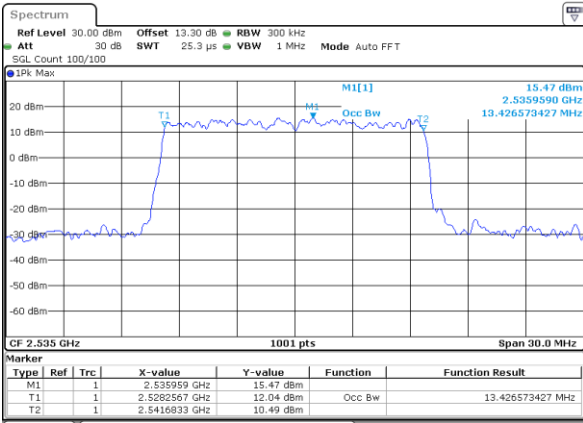
Date: 6, JAN, 2018 22:13:19

Lowest Channel / 15MHz / 16QAM



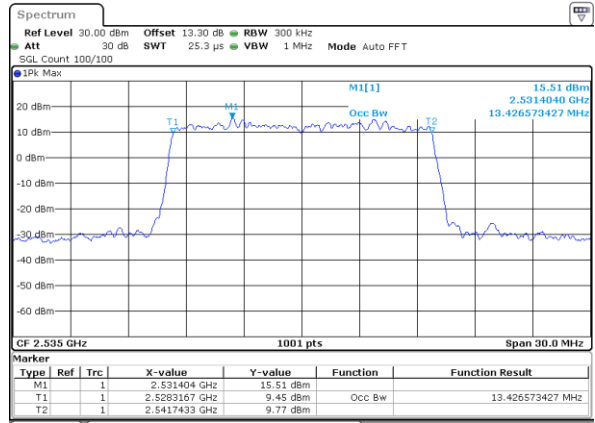
Date: 6, JAN, 2018 22:13:29

Middle Channel / 15MHz / QPSK



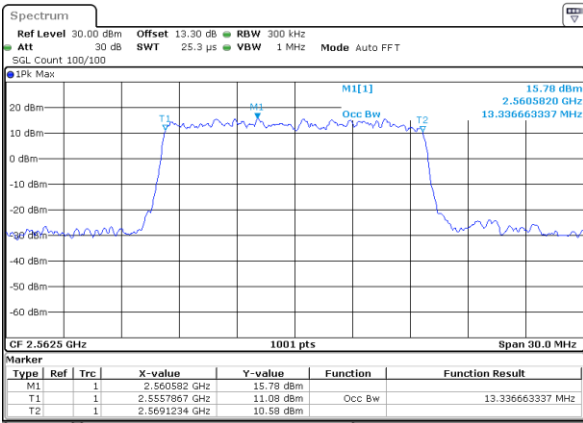
Date: 6, JAN, 2018 22:20:17

Middle Channel / 15MHz / 16QAM



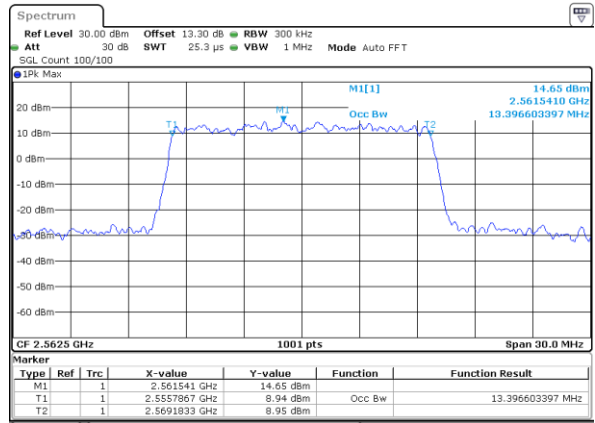
Date: 6, JAN, 2018 22:20:26

Highest Channel / 15MHz / QPSK



Date: 6, JAN, 2018 22:22:41

Highest Channel / 15MHz / 16QAM

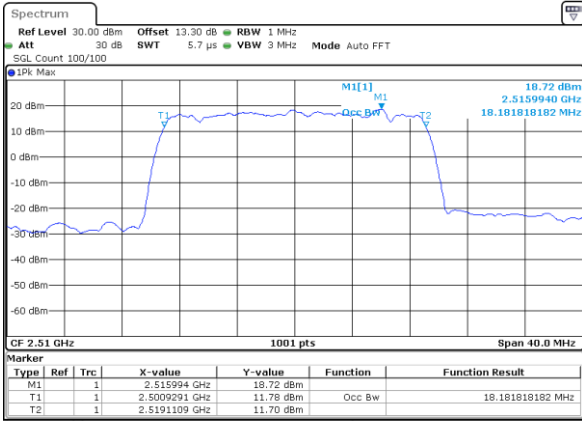


Date: 6, JAN, 2018 22:22:51



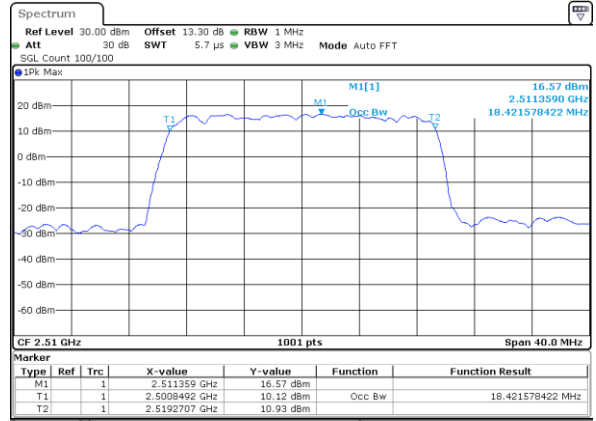
LTE Band 7

Lowest Channel / 20MHz / QPSK



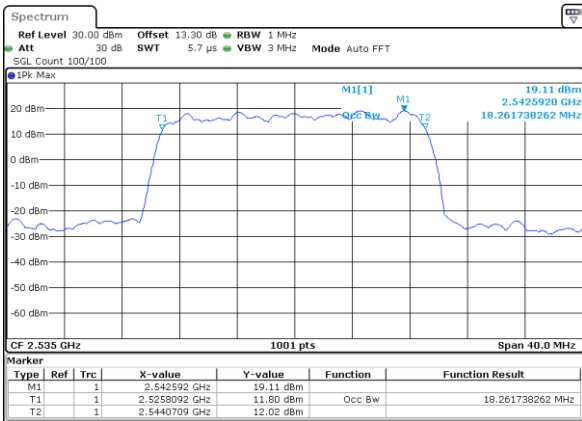
Date: 29\_JAN\_2018 20:04:01

Lowest Channel / 20MHz / 16QAM



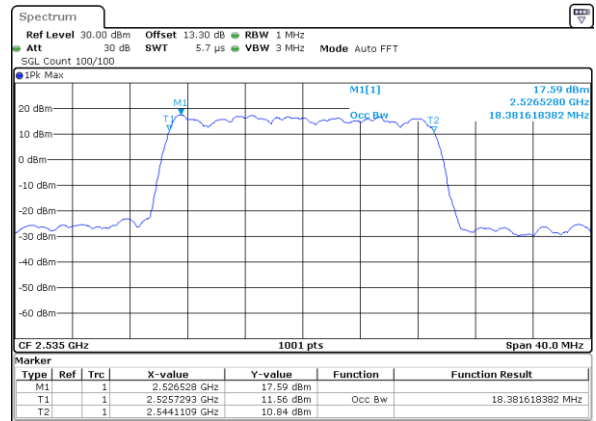
Date: 29\_JAN\_2018 20:04:12

Middle Channel / 20MHz / QPSK



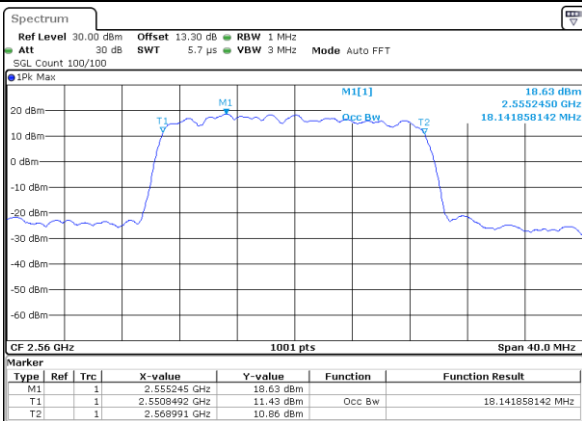
Date: 29\_JAN\_2018 20:04:46

Middle Channel / 20MHz / 16QAM



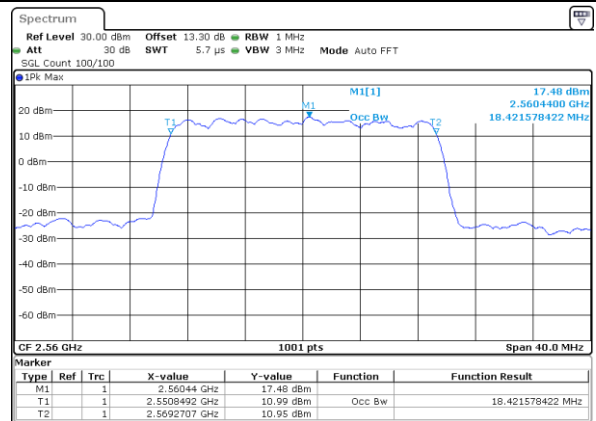
Date: 29\_JAN\_2018 20:04:58

Highest Channel / 20MHz / QPSK



Date: 29\_JAN\_2018 20:05:32

Highest Channel / 20MHz / 16QAM



Date: 29\_JAN\_2018 20:05:43



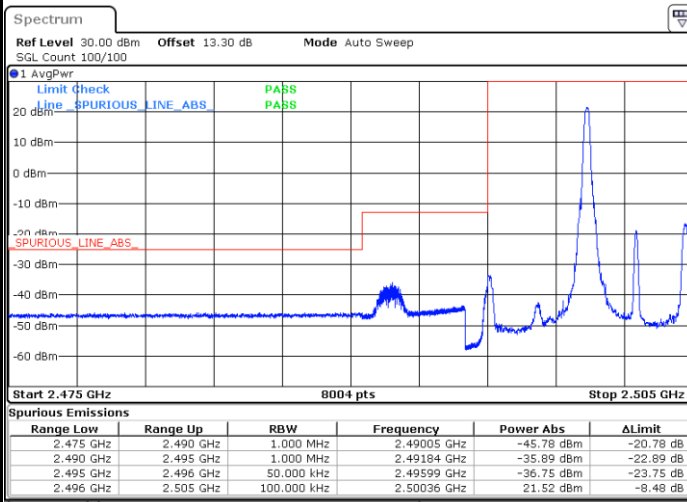


**Conducted Band Edge**



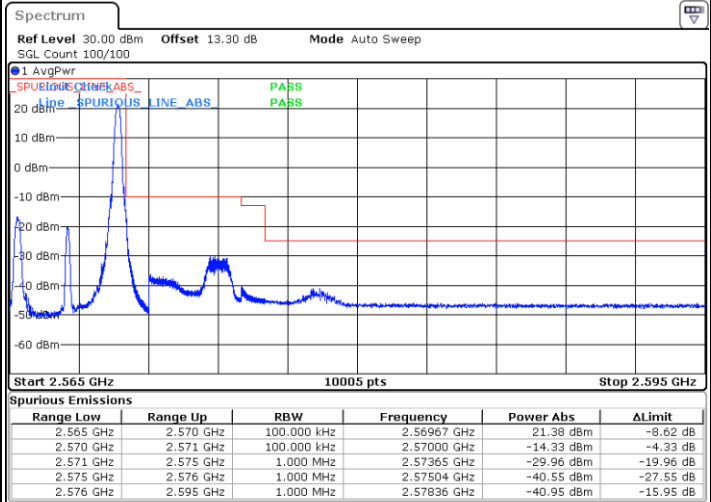
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



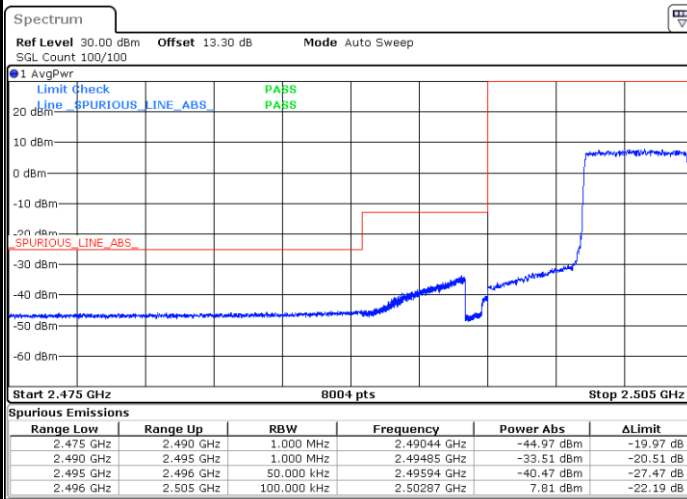
Date: 6.JAN.2018 21:39:10

Highest Band Edge / 1 RB



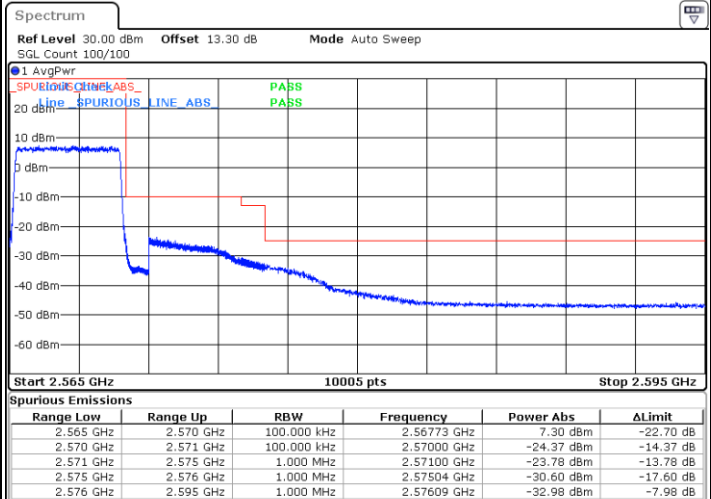
Date: 6.JAN.2018 21:51:39

Lowest Band Edge / Full RB



Date: 6.JAN.2018 21:41:26

Highest Band Edge / Full RB

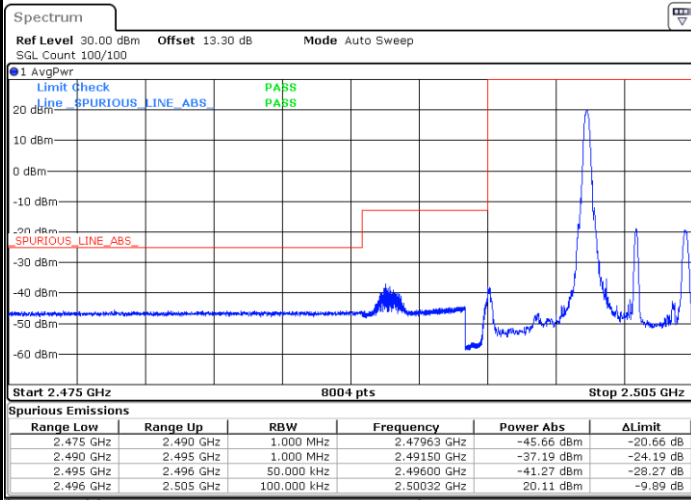


Date: 6.JAN.2018 21:53:55



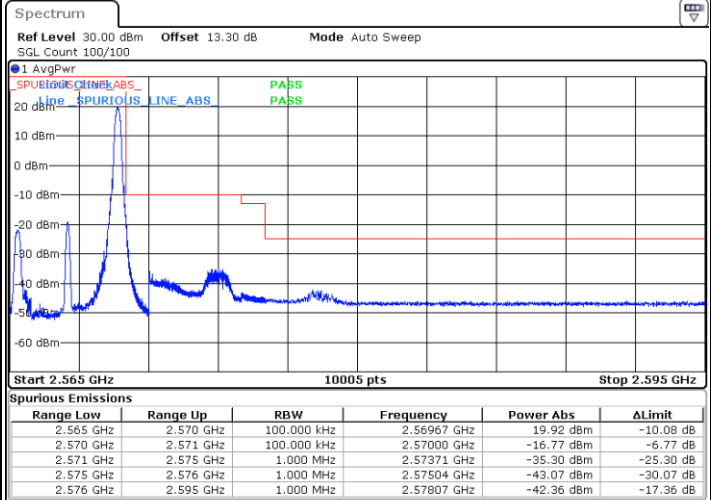
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



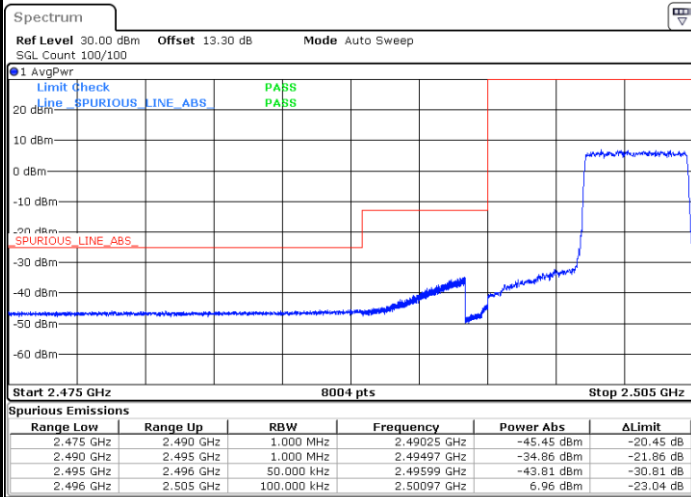
Date: 6.JAN.2018 21:40:18

Highest Band Edge / 1 RB



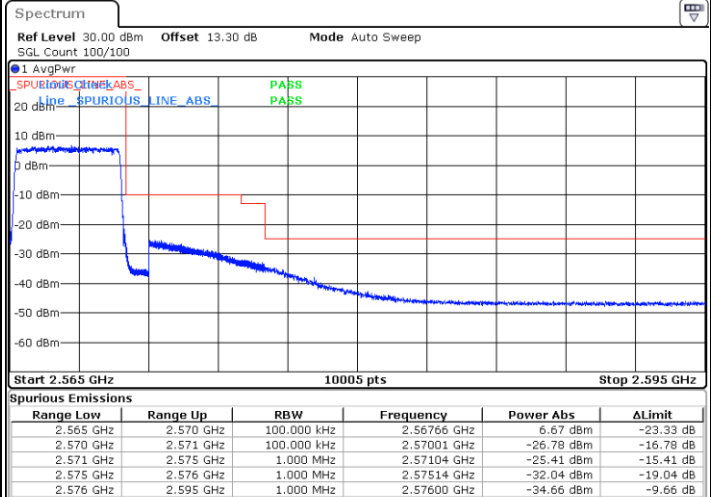
Date: 6.JAN.2018 21:52:47

Lowest Band Edge / Full RB



Date: 6.JAN.2018 21:42:34

Highest Band Edge / Full RB

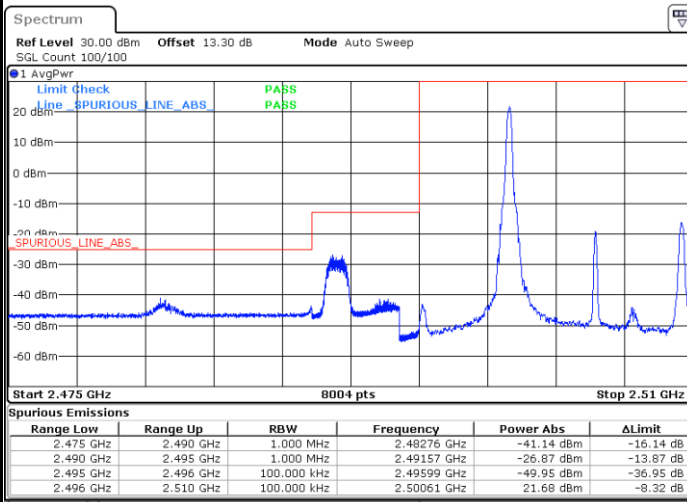


Date: 6.JAN.2018 21:55:04



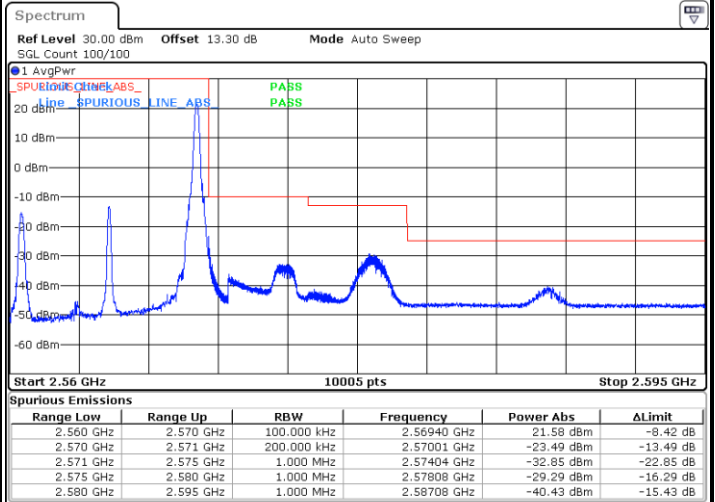
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



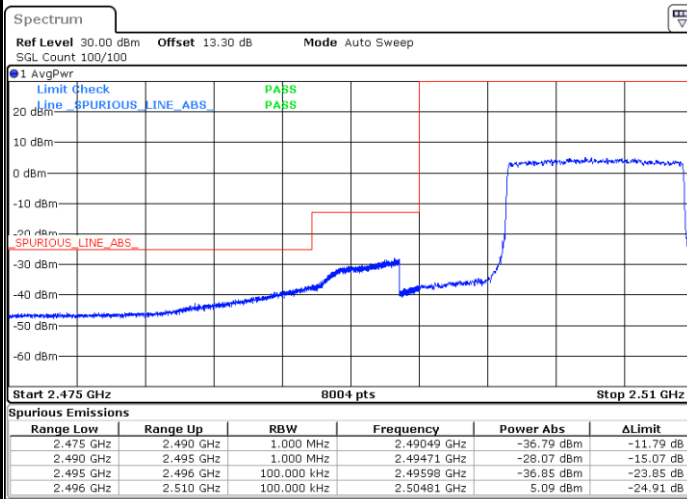
Date: 6.JAN.2018 21:58:37

Highest Band Edge / 1 RB



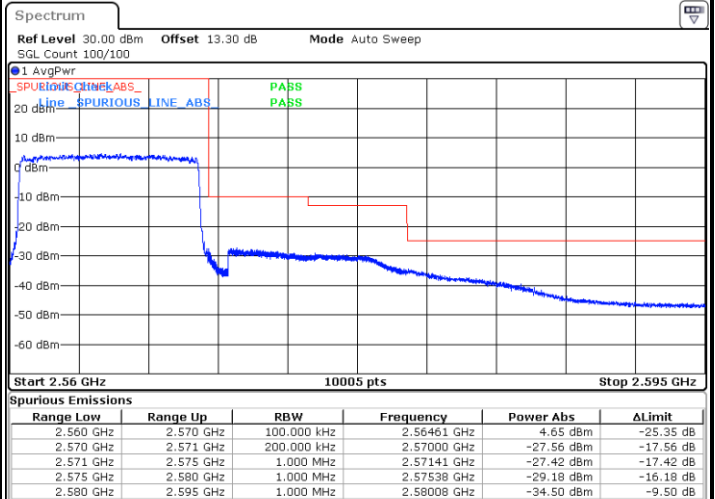
Date: 6.JAN.2018 22:07:59

Lowest Band Edge / Full RB



Date: 6.JAN.2018 22:00:53

Highest Band Edge / Full RB

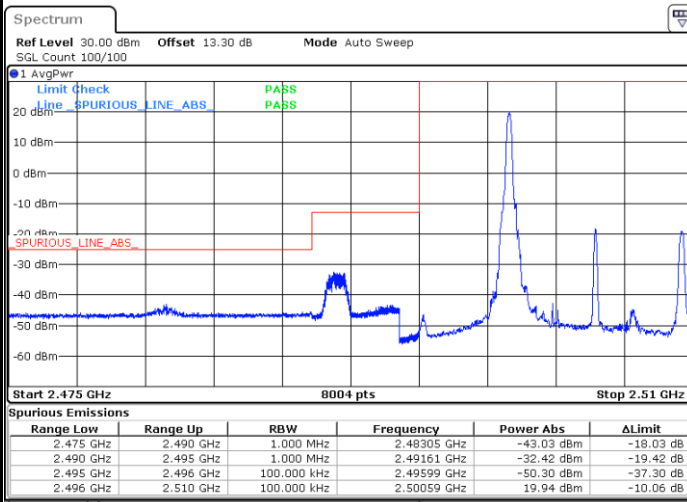


Date: 6.JAN.2018 22:10:15



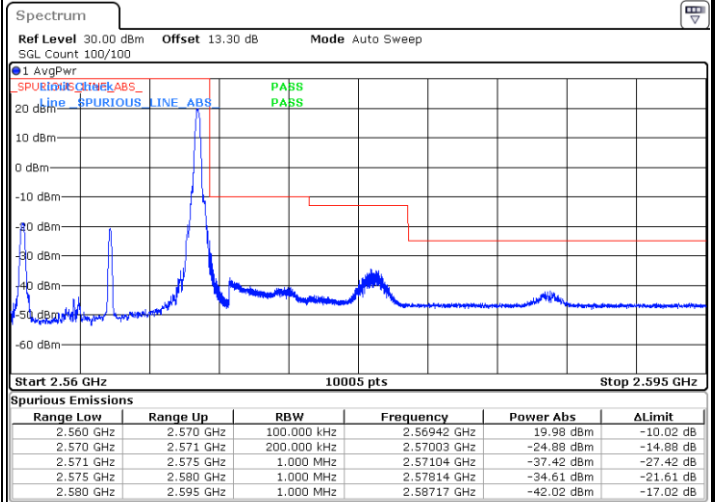
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



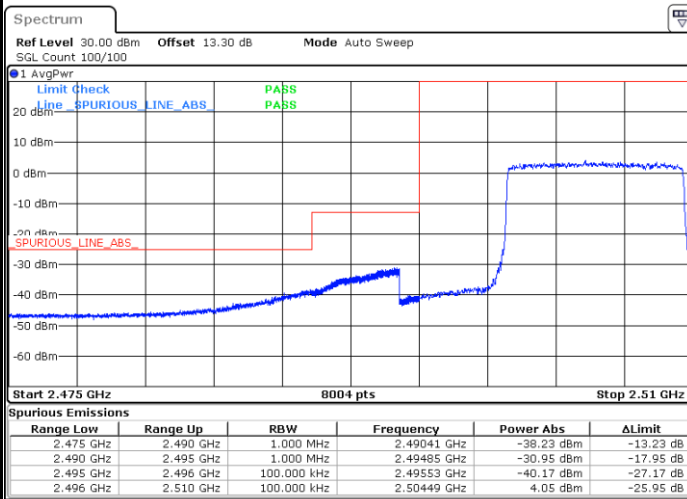
Date: 6.JAN.2018 21:59:45

Highest Band Edge / 1 RB



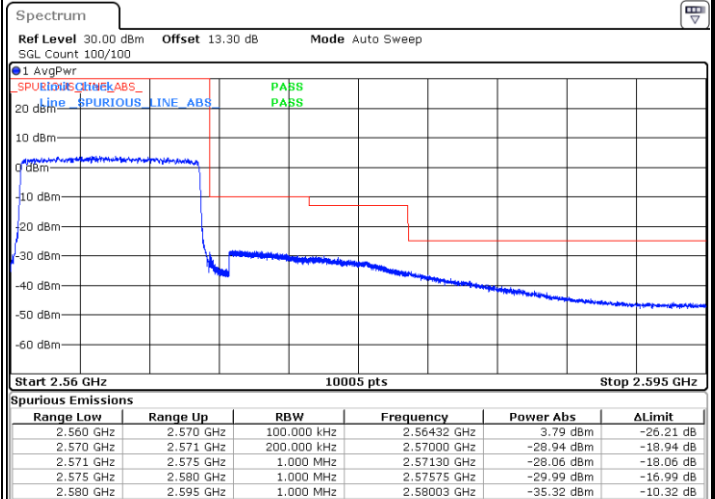
Date: 6.JAN.2018 22:09:07

Lowest Band Edge / Full RB



Date: 6.JAN.2018 22:02:01

Highest Band Edge / Full RB

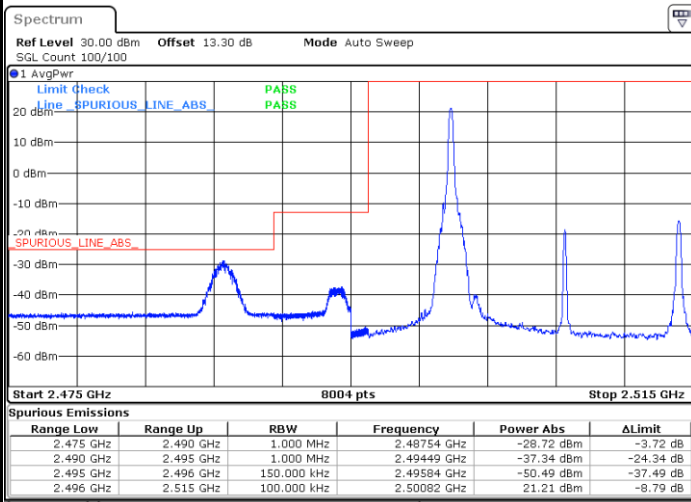


Date: 6.JAN.2018 22:11:24



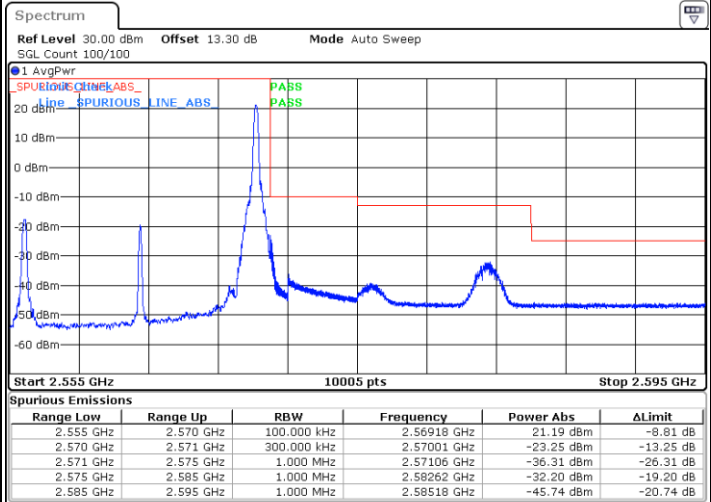
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



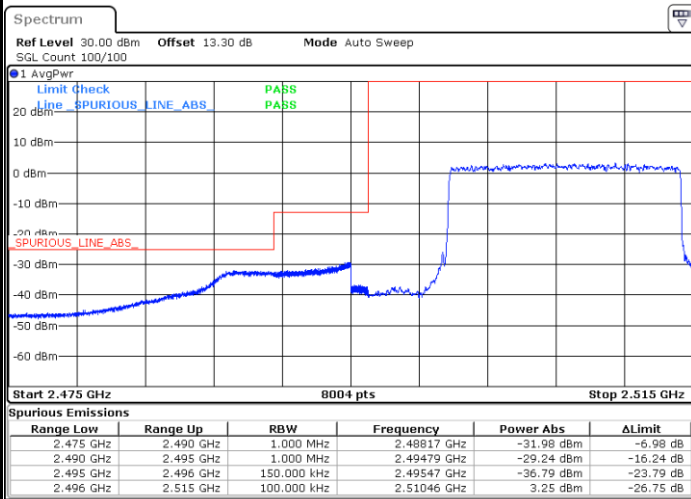
Date: 6.JAN.2018 22:14:56

Highest Band Edge / 1 RB



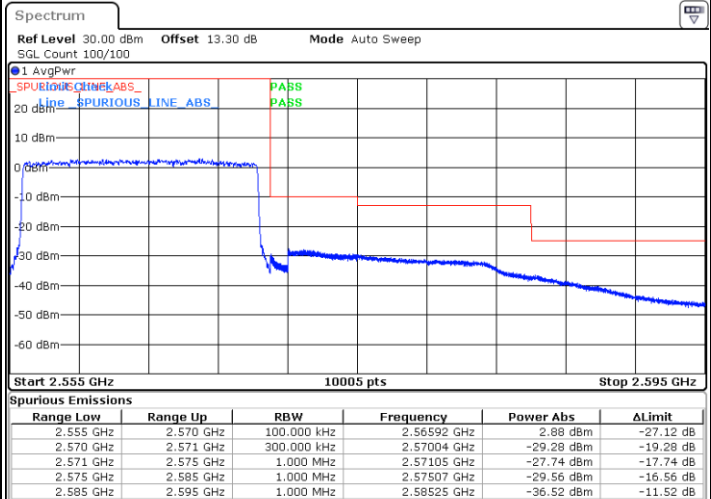
Date: 6.JAN.2018 22:24:19

Lowest Band Edge / Full RB



Date: 6.JAN.2018 22:17:13

Highest Band Edge / Full RB

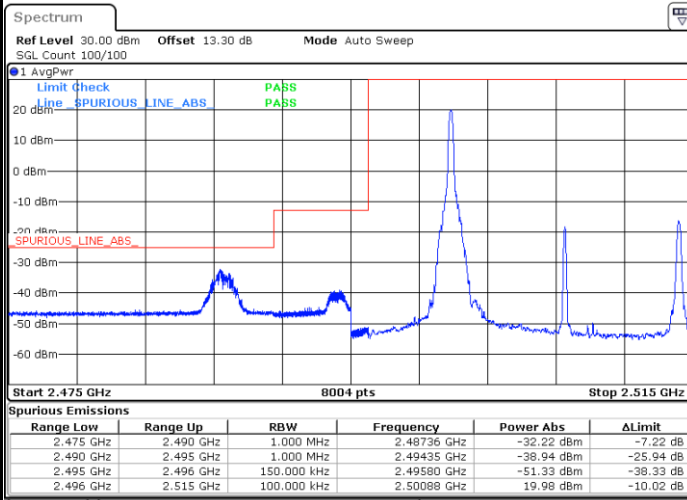


Date: 6.JAN.2018 22:26:36



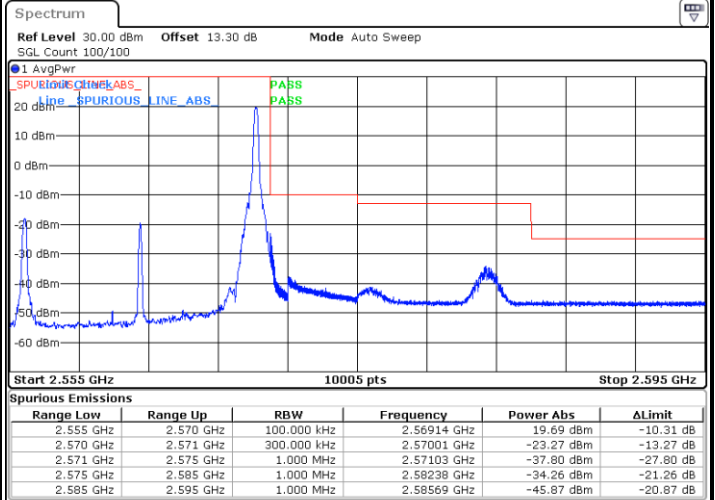
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



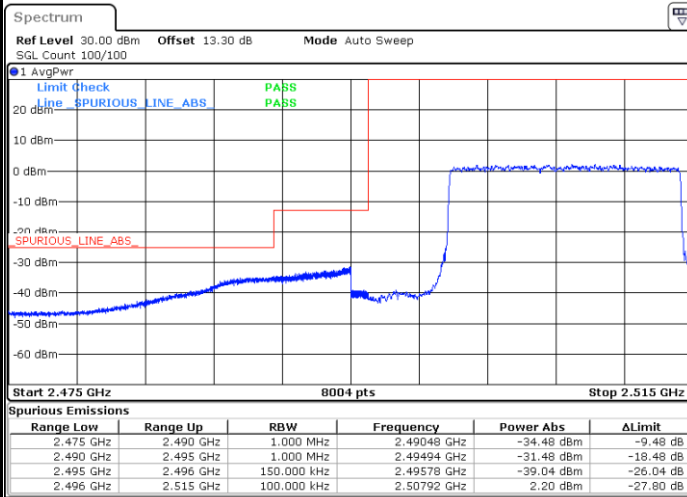
Date: 6.JAN.2018 22:16:05

Highest Band Edge / 1 RB



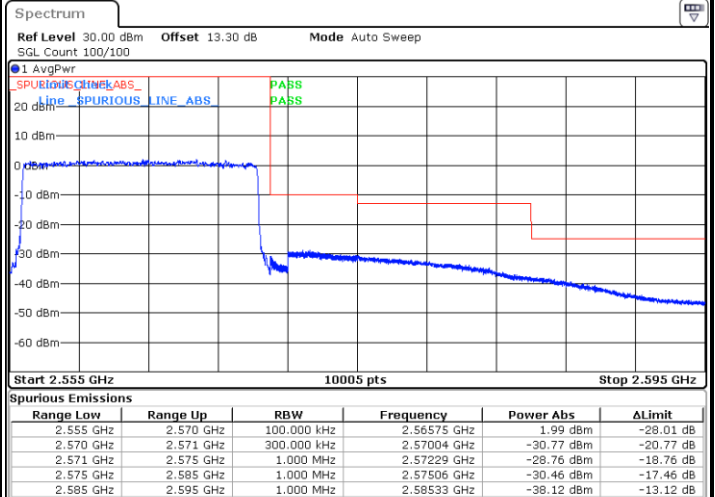
Date: 6.JAN.2018 22:25:27

Lowest Band Edge / Full RB



Date: 6.JAN.2018 22:18:21

Highest Band Edge / Full RB

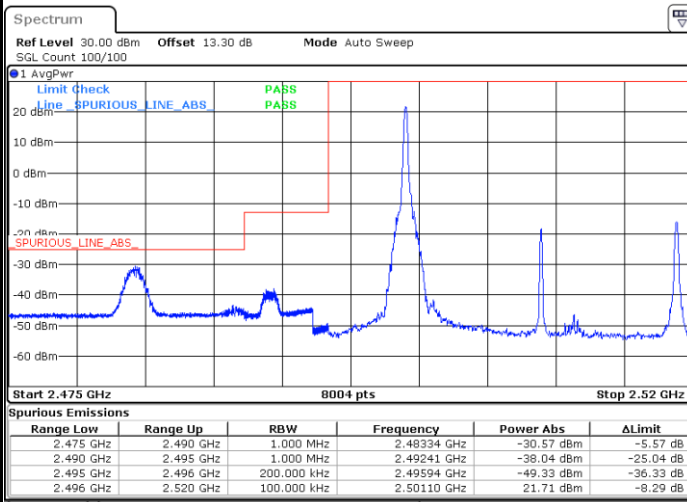


Date: 6.JAN.2018 22:27:44



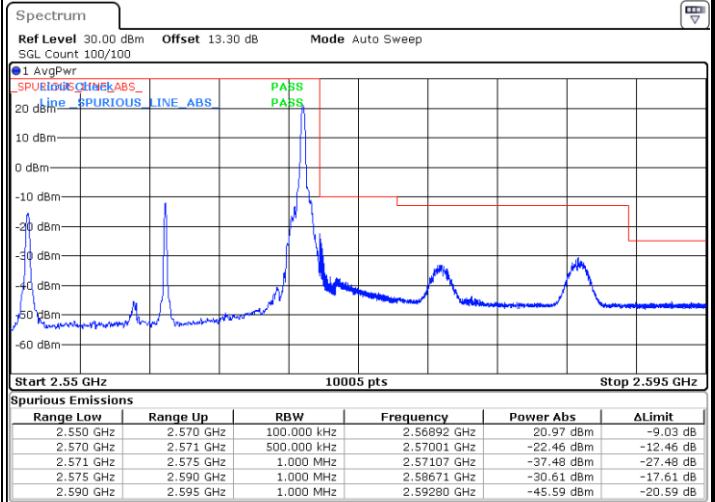
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



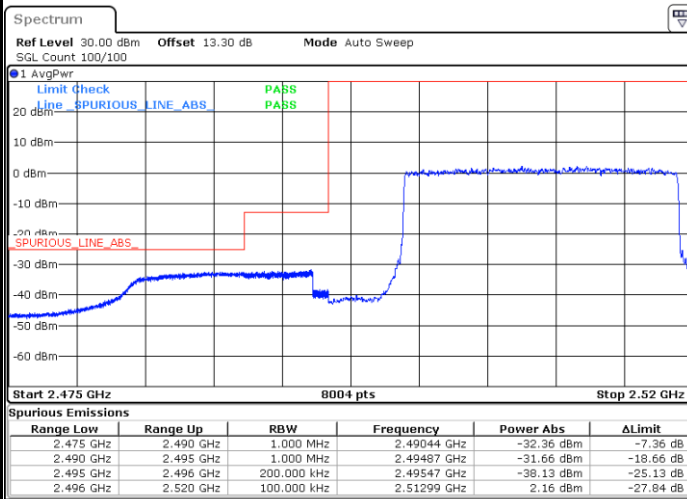
Date: 6.JAN.2018 22:31:17

Highest Band Edge / 1 RB



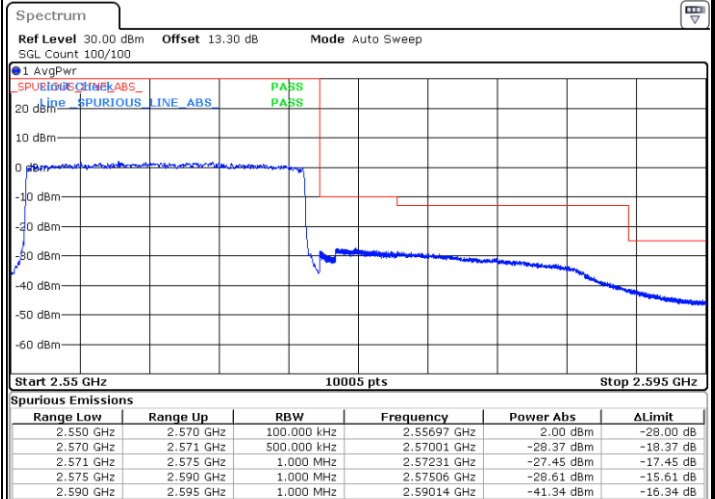
Date: 6.JAN.2018 22:40:38

Lowest Band Edge / Full RB



Date: 6.JAN.2018 22:33:33

Highest Band Edge / Full RB



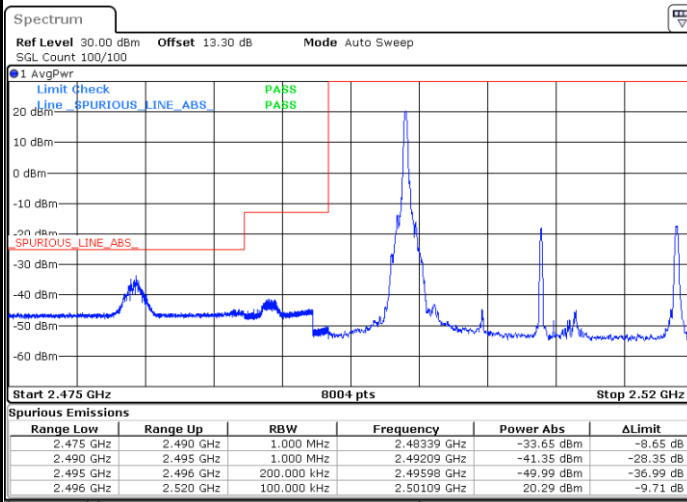
Date: 6.JAN.2018 22:44:03





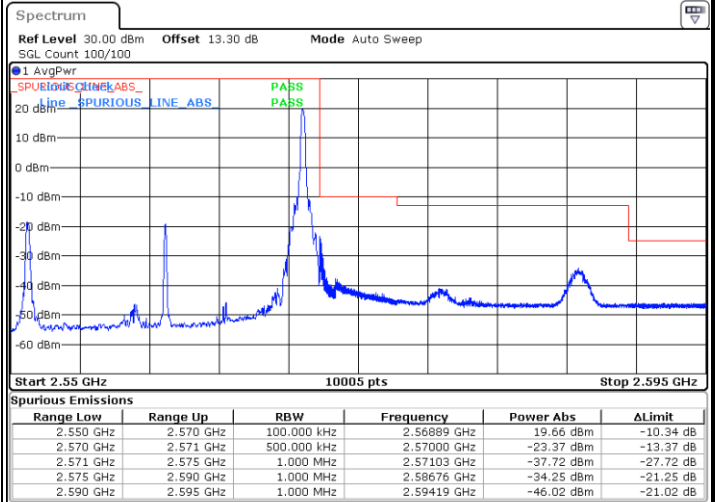
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



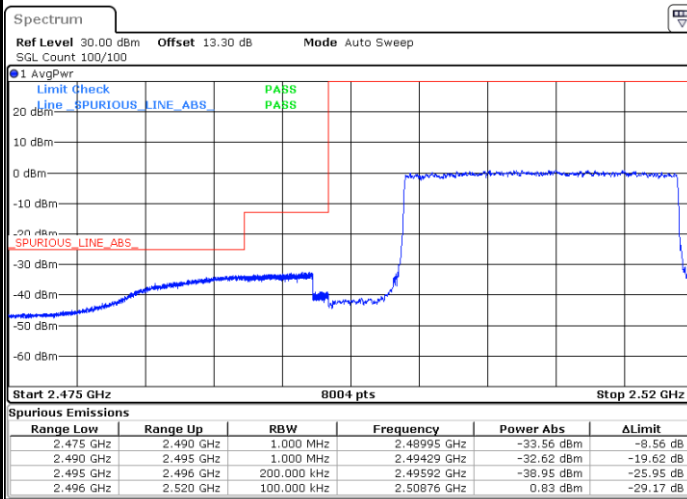
Date: 6.JAN.2018 22:32:25

Highest Band Edge / 1RB



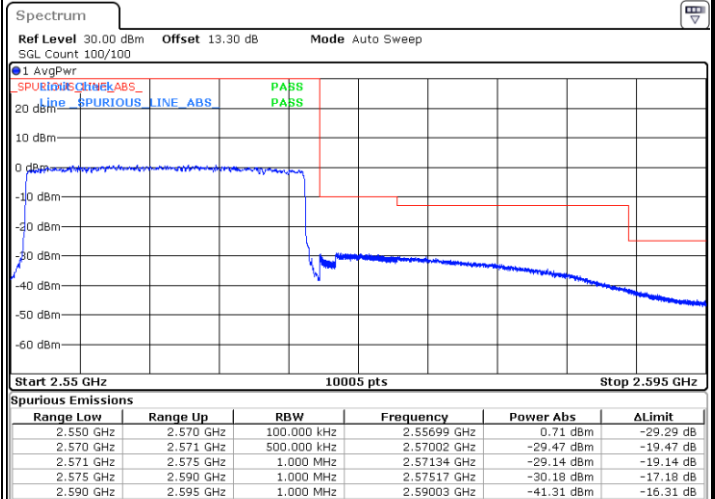
Date: 6.JAN.2018 22:41:47

Lowest Band Edge / Full RB



Date: 6.JAN.2018 22:34:11

Highest Band Edge / Full RB



Date: 6.JAN.2018 22:42:55



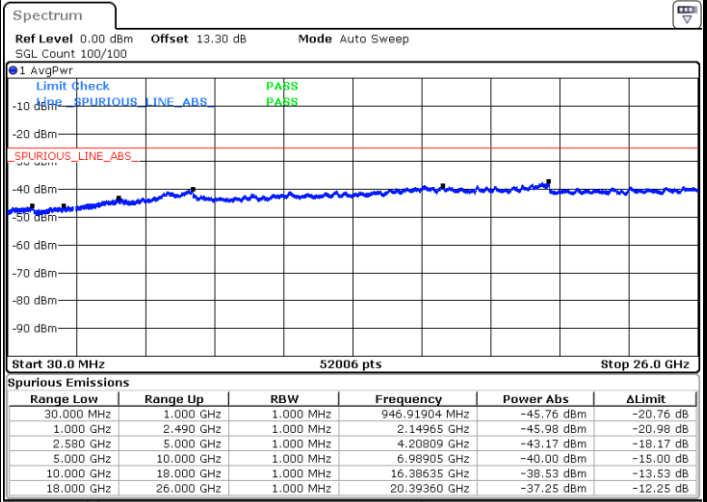
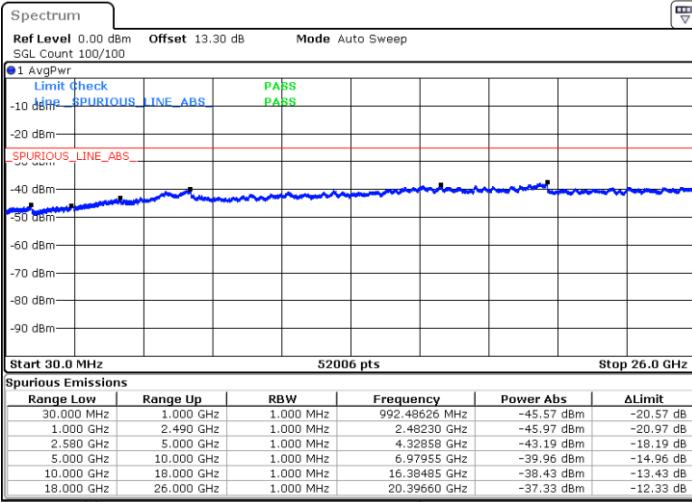
**Conducted Spurious Emission**



LTE Band 7 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

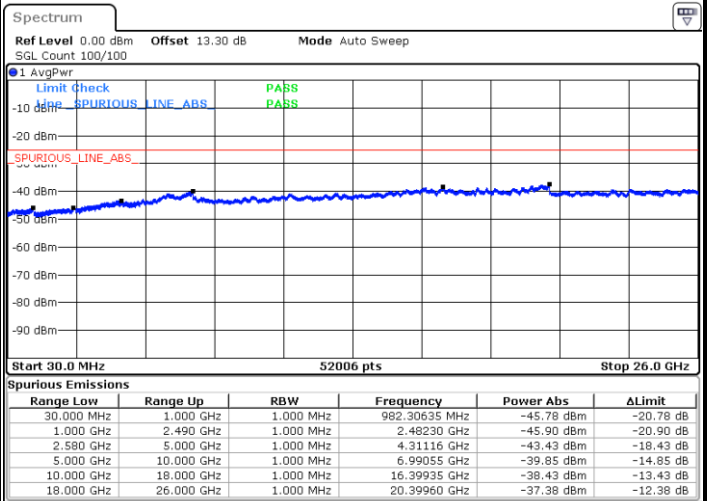
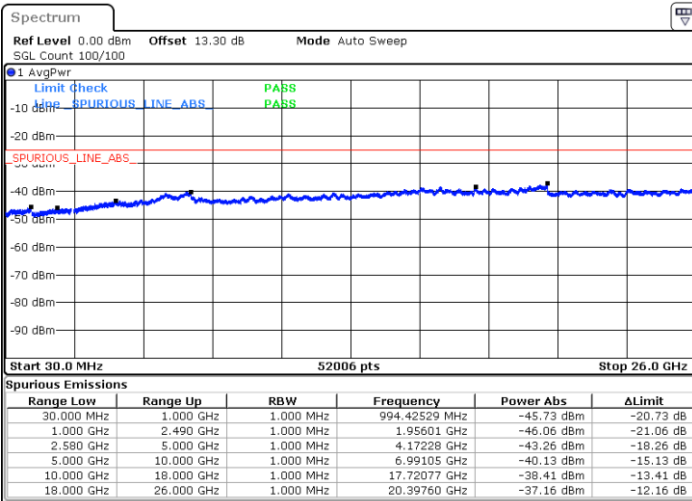


Date: 6.JAN.2018 21:43:27

Date: 6.JAN.2018 21:44:19

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 6.JAN.2018 21:48:59

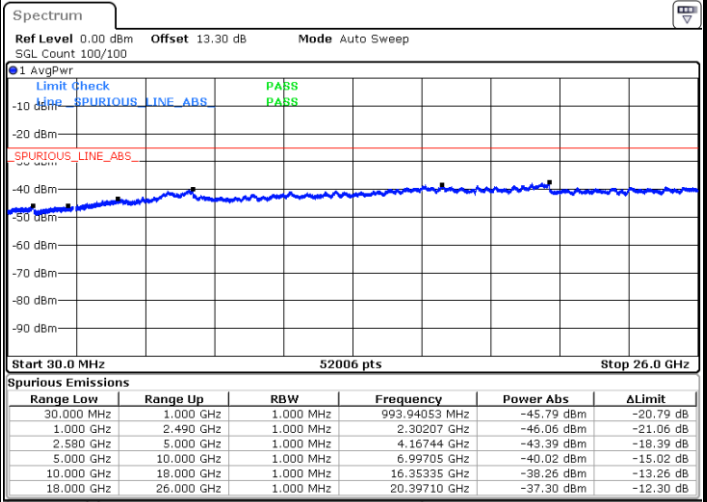
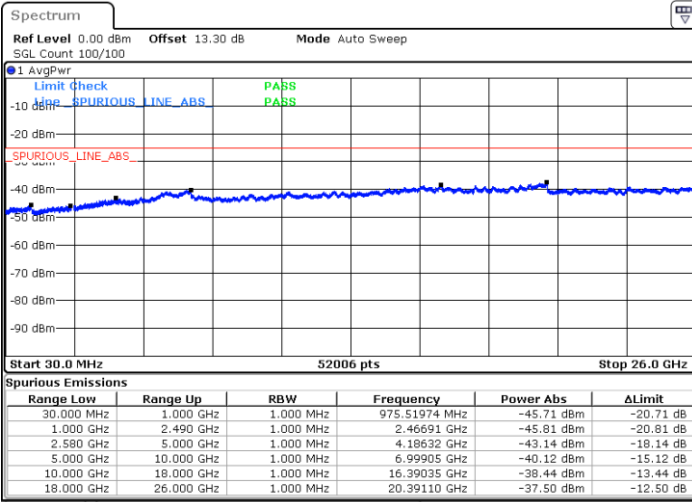
Date: 6.JAN.2018 21:49:51



LTE Band 7 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



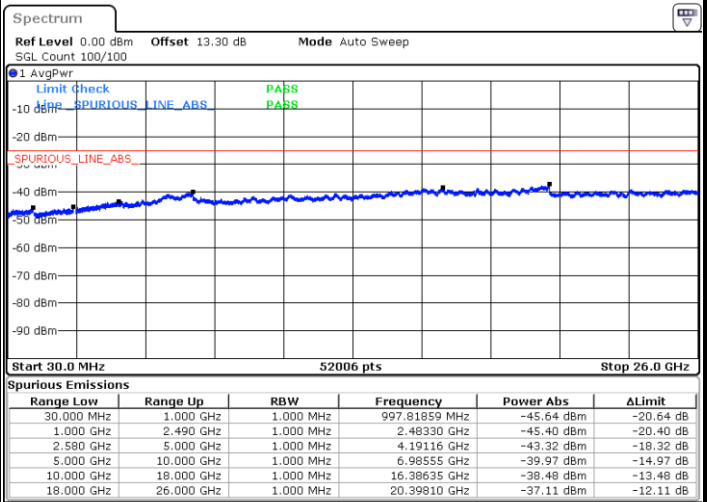
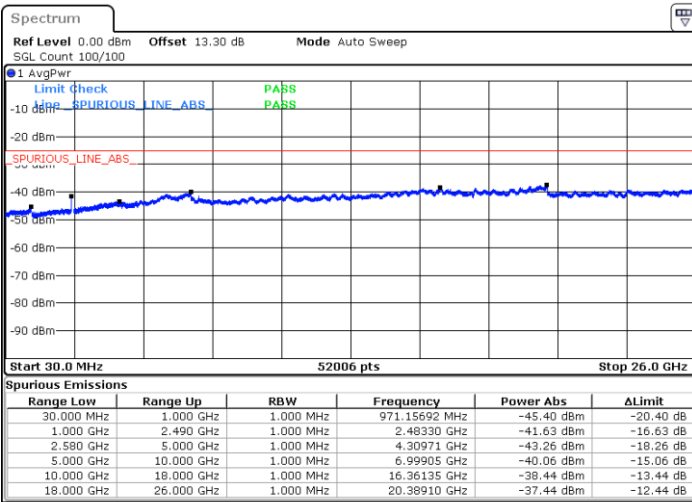
Date: 6.JAN.2018 21:55:57

Date: 6.JAN.2018 21:56:49

LTE Band 7 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 6.JAN.2018 22:02:54

Date: 6.JAN.2018 22:03:47