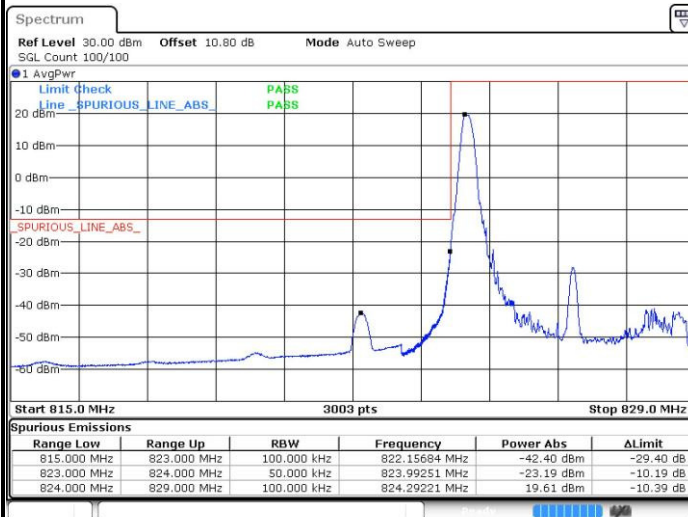




LTE Band 5 / 5MHz / 16QAM

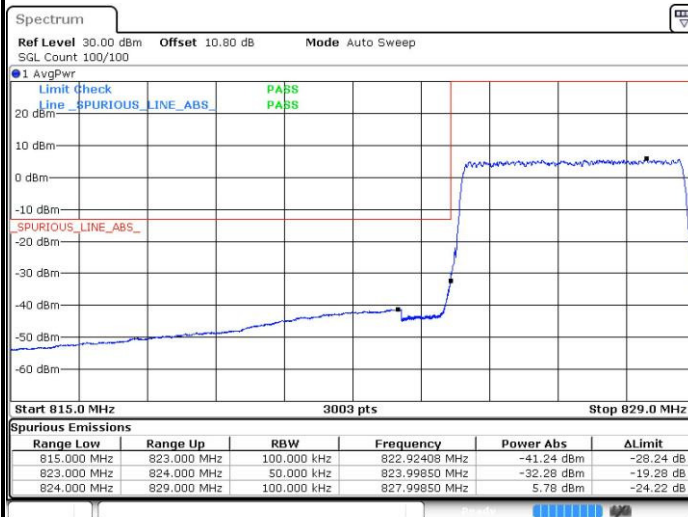
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



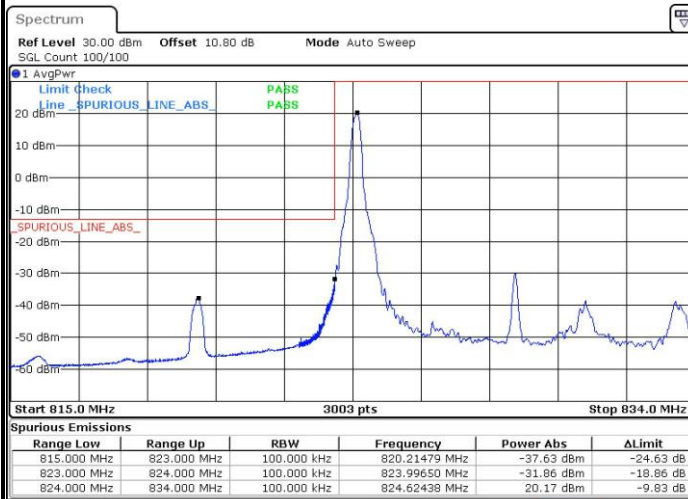
Highest Band Edge / Full RB



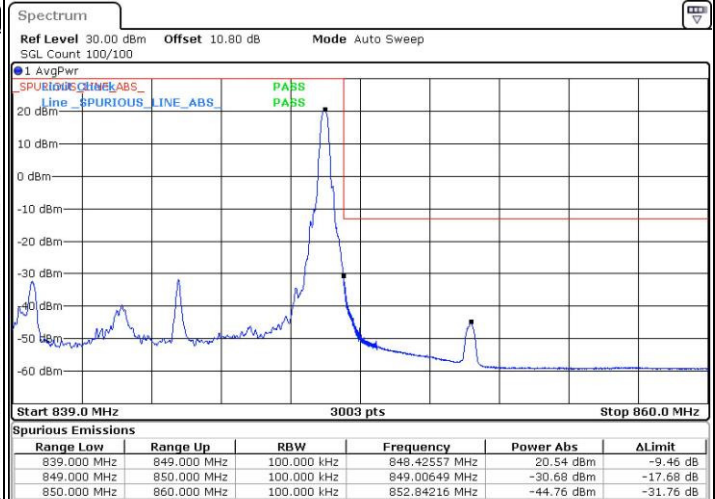


LTE Band 5 / 10MHz / QPSK

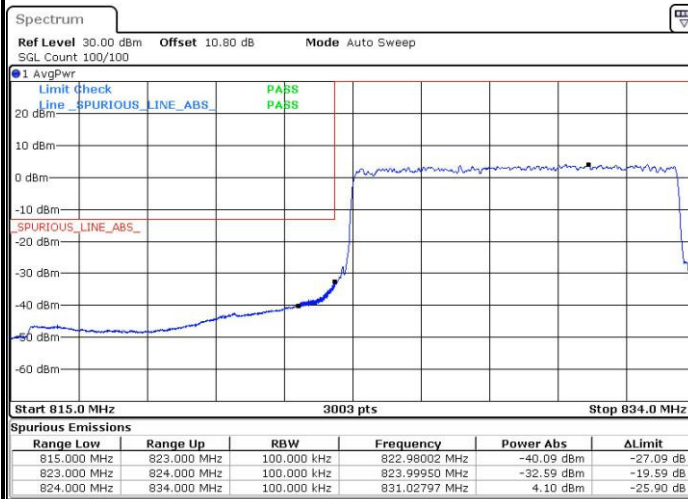
Lowest Band Edge / 1 RB



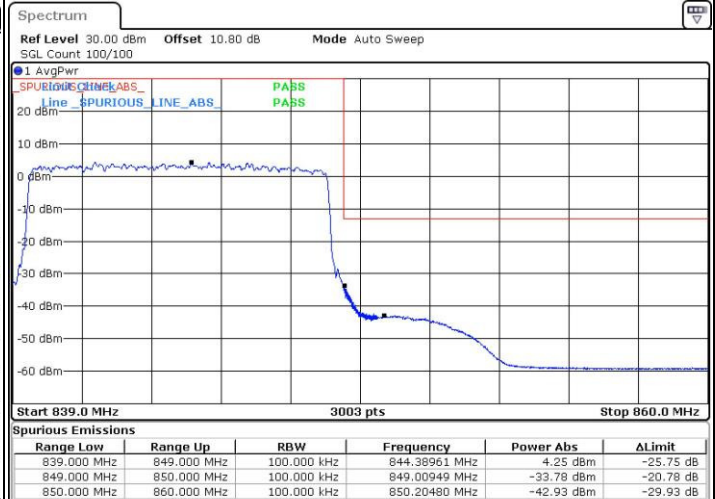
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



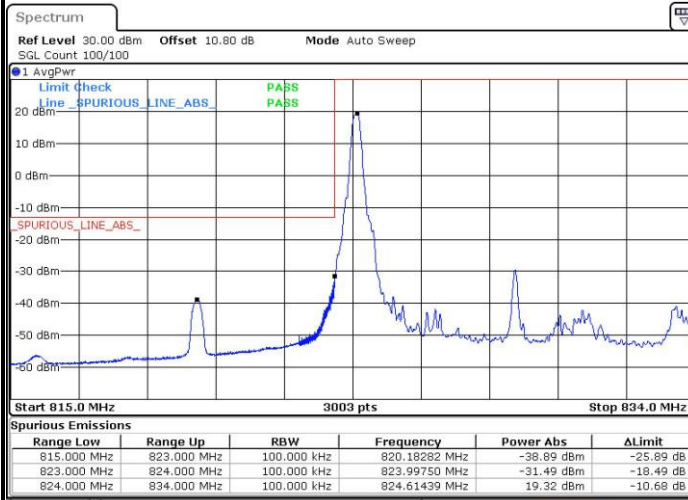
Highest Band Edge / Full RB



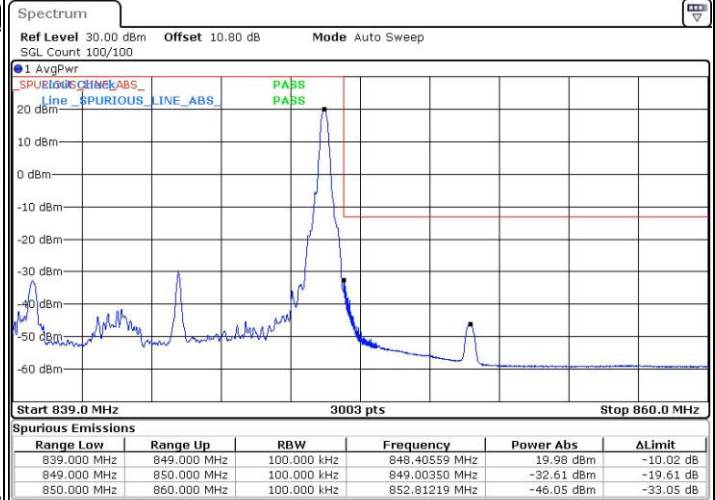


LTE Band 5 / 10MHz / 16QAM

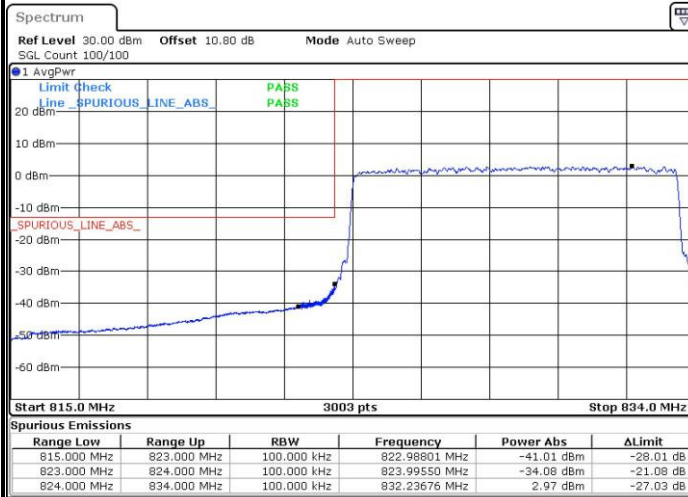
Lowest Band Edge / 1 RB



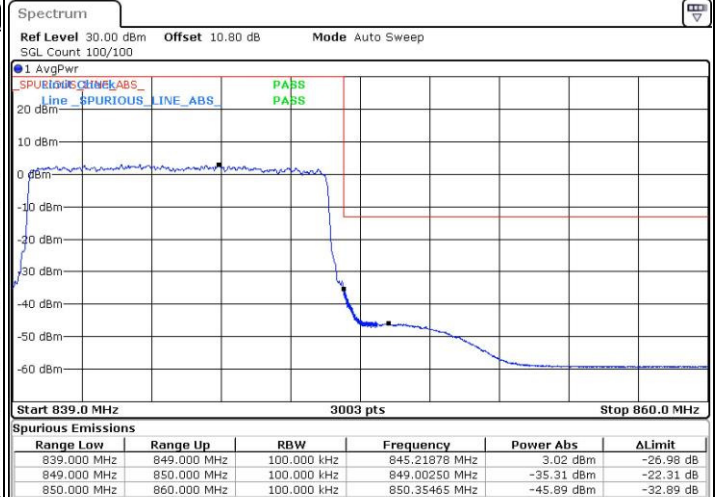
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB



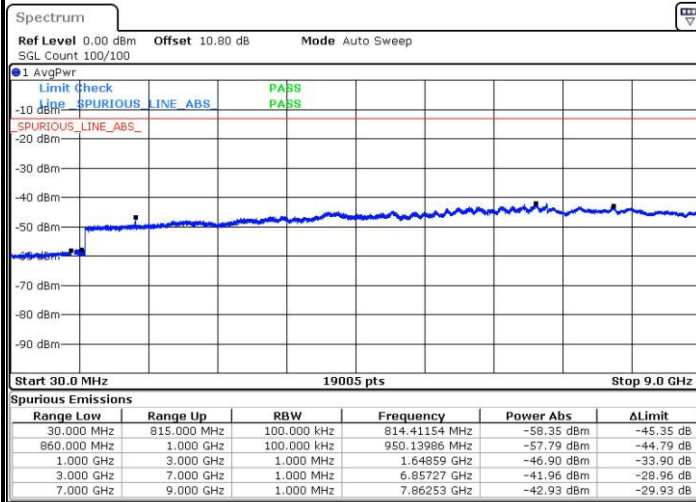


Conducted Spurious Emission



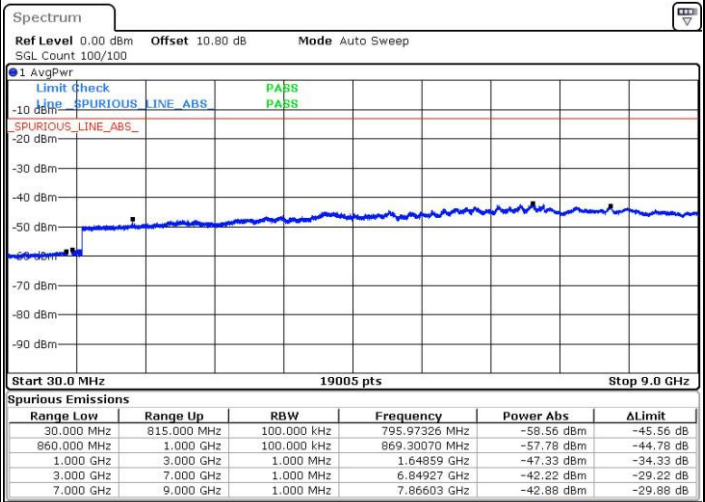
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



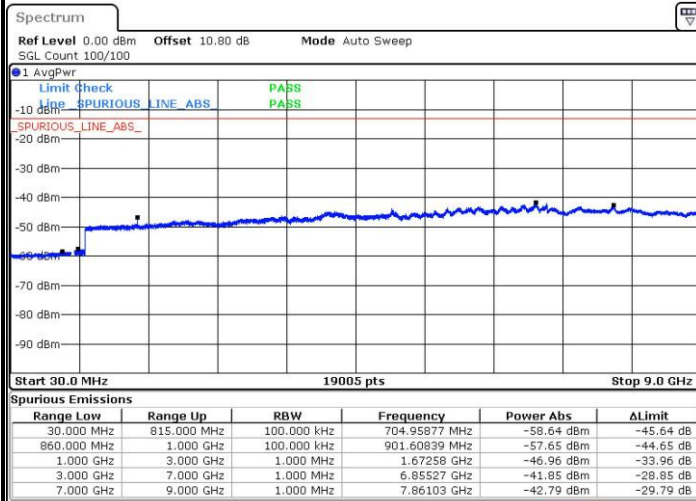
Date: 17.FEB.2017 16:30:01

Lowest Channel / 16QAM



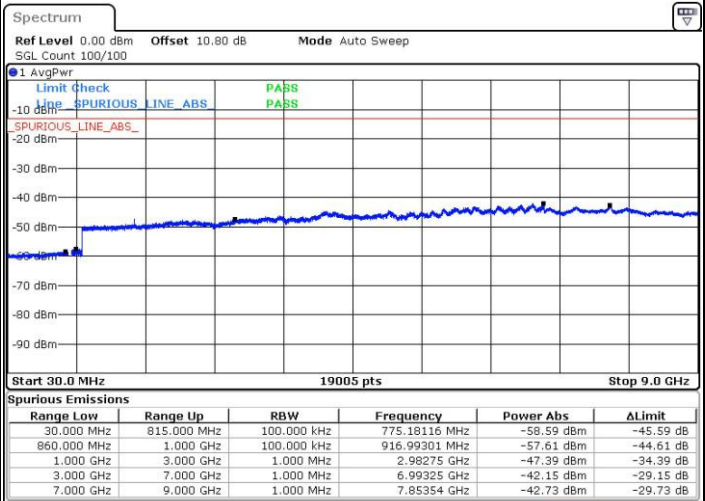
Date: 17.FEB.2017 16:30:55

Middle Channel / QPSK



Date: 17.FEB.2017 16:32:31

Middle Channel / 16QAM

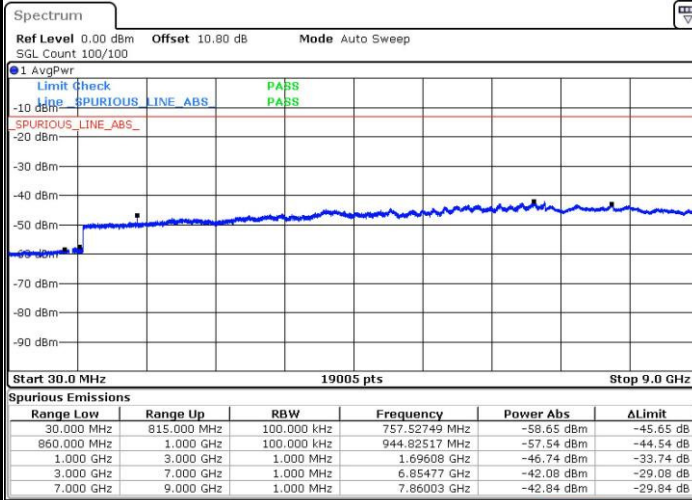


Date: 17.FEB.2017 16:33:25



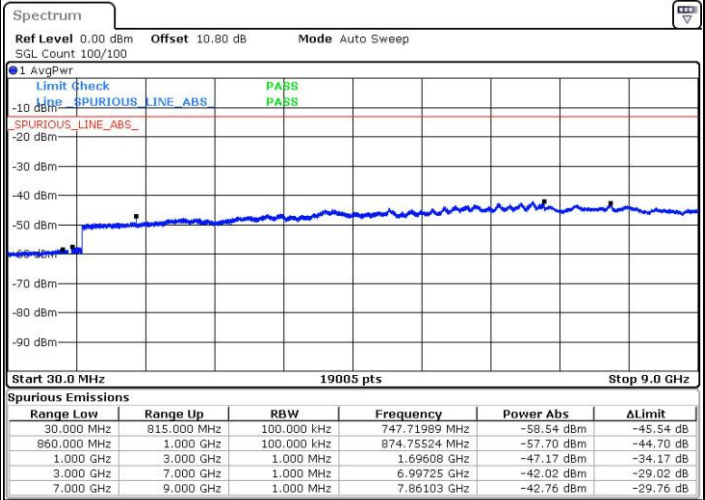
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 17.FEB.2017 16:46:19

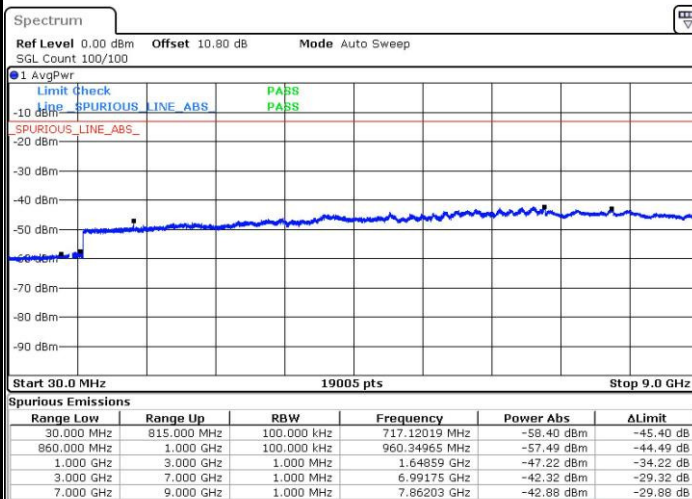
Highest Channel / 16QAM



Date: 17.FEB.2017 16:47:14

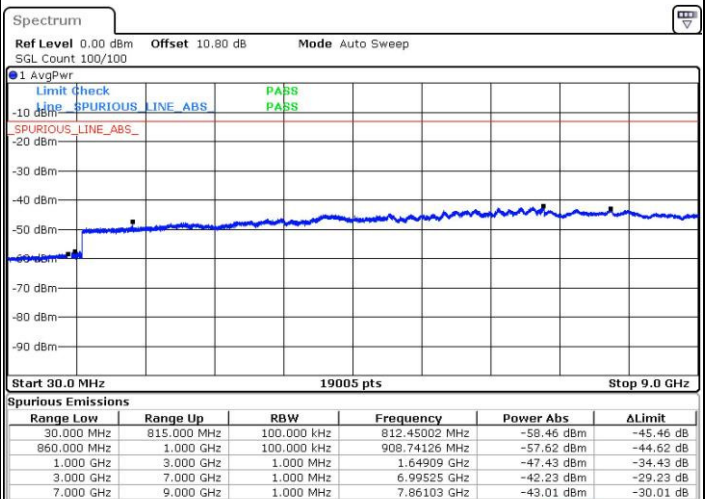
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 17.FEB.2017 13:48:53

Lowest Channel / 16QAM

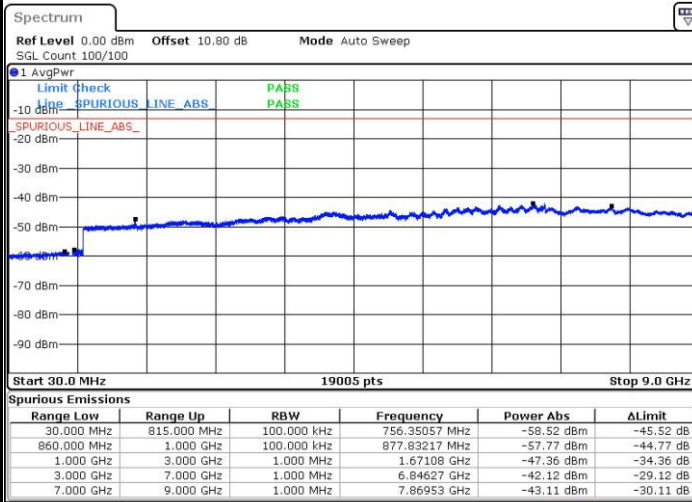


Date: 17.FEB.2017 13:49:47



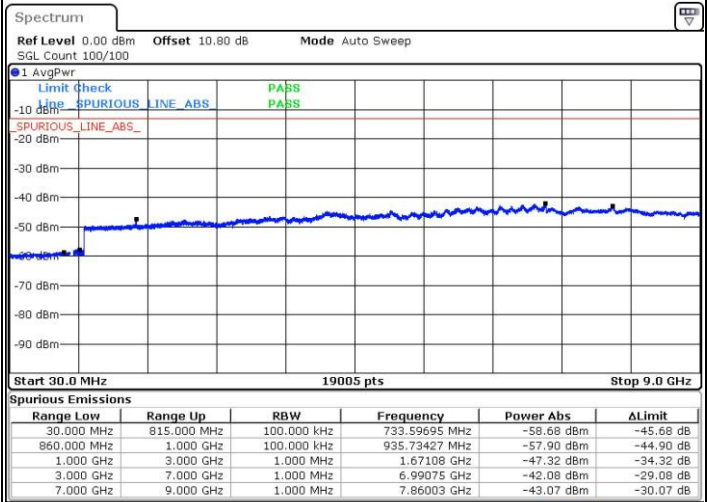
LTE Band 5 / 3MHz

Middle Channel / QPSK



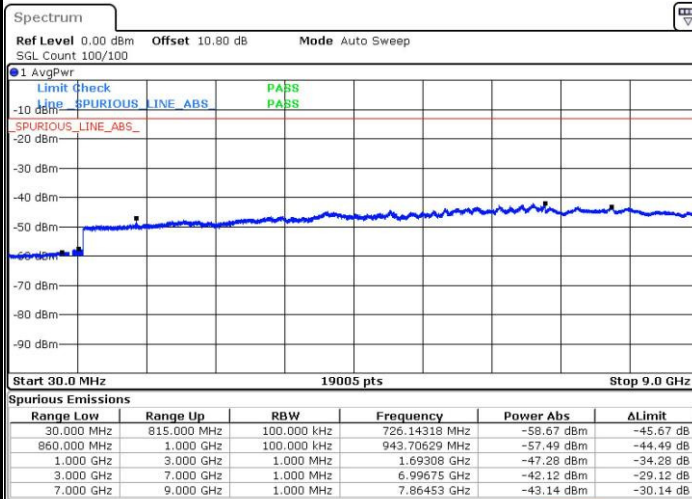
Date: 17.FEB.2017 13:51:23

Middle Channel / 16QAM



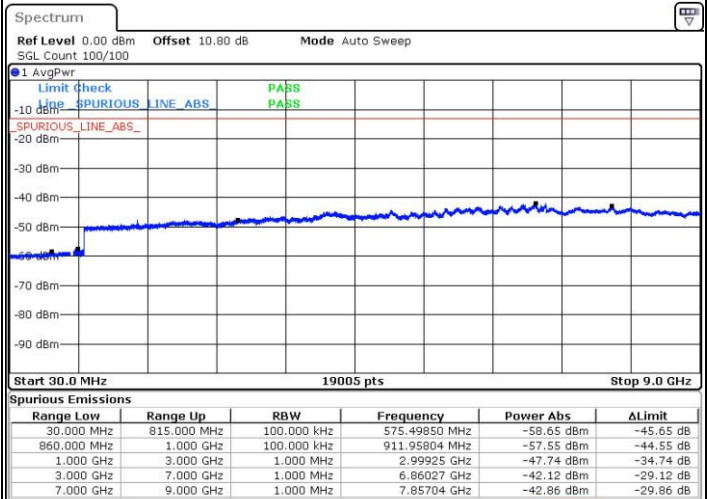
Date: 17.FEB.2017 13:52:17

Highest Channel / QPSK



Date: 17.FEB.2017 14:00:29

Highest Channel / 16QAM

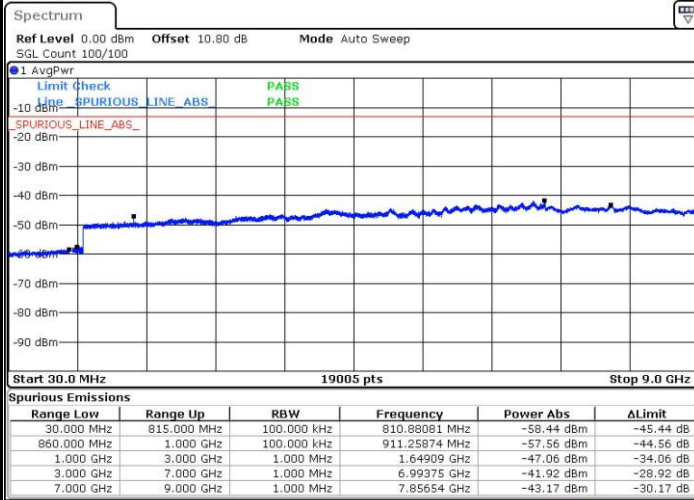


Date: 17.FEB.2017 14:01:23



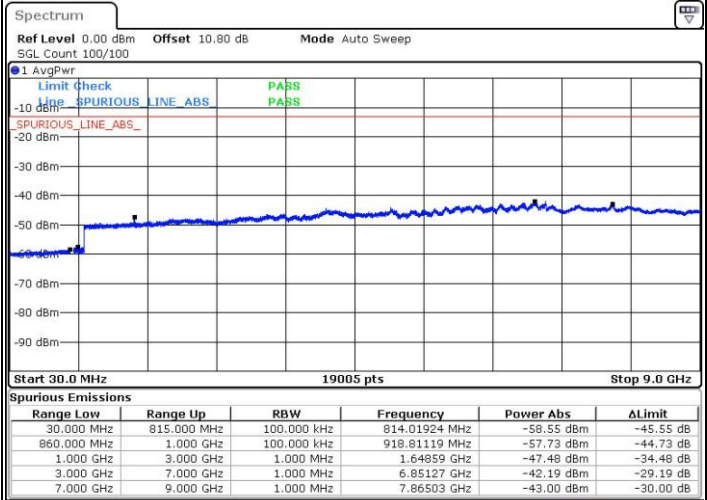
LTE Band 5 / 5MHz

Lowest Channel / QPSK



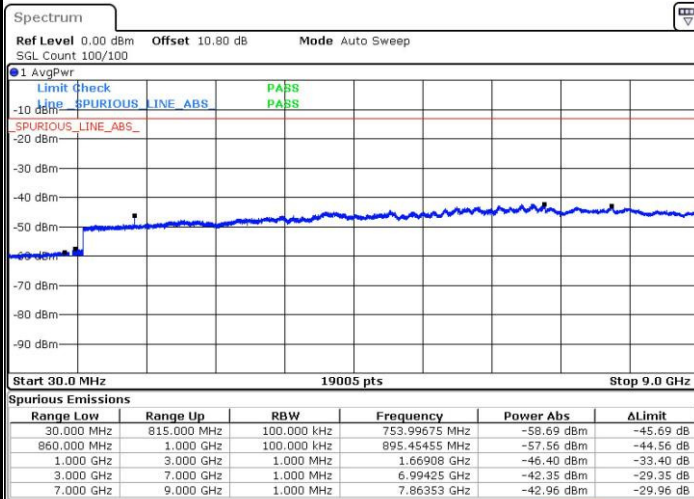
Date: 17.FEB.2017 14:09:35

Lowest Channel / 16QAM



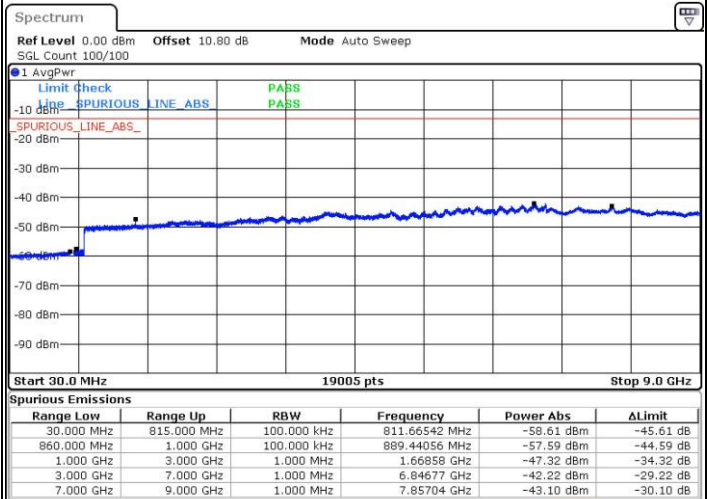
Date: 17.FEB.2017 14:10:29

Middle Channel / QPSK



Date: 17.FEB.2017 14:12:05

Middle Channel / 16QAM

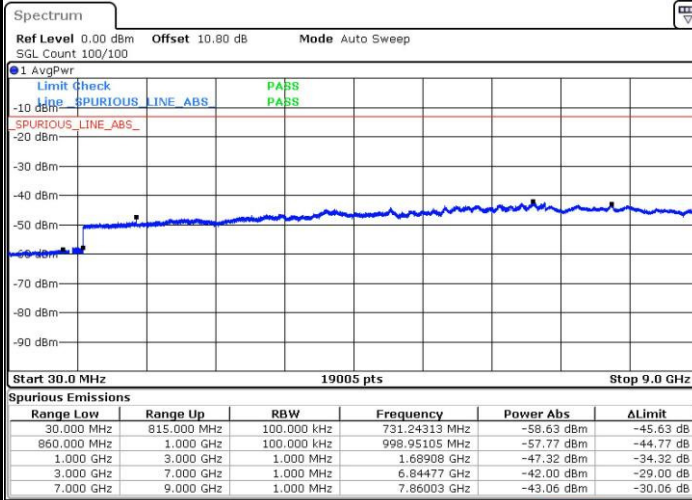


Date: 17.FEB.2017 14:12:59



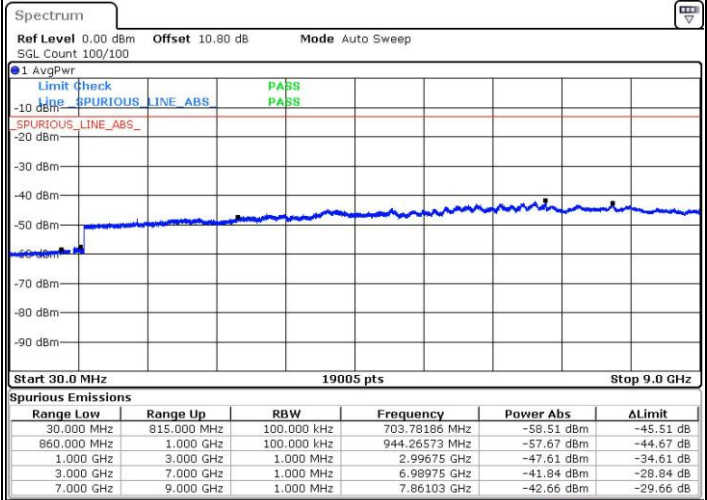
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 17.FEB.2017 14:21:12

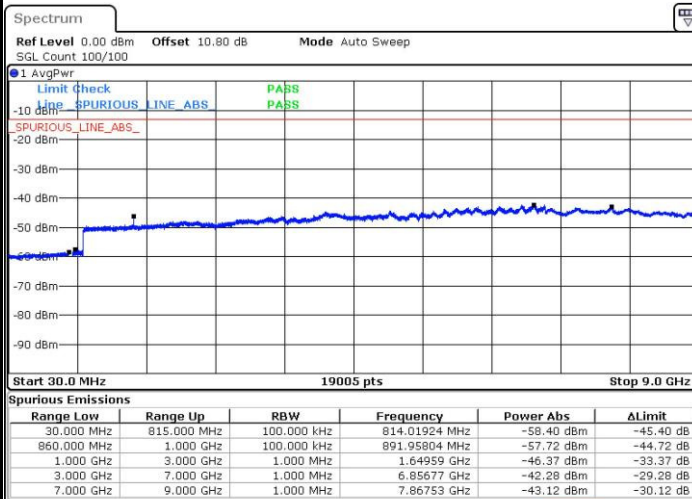
Highest Channel / 16QAM



Date: 17.FEB.2017 14:22:06

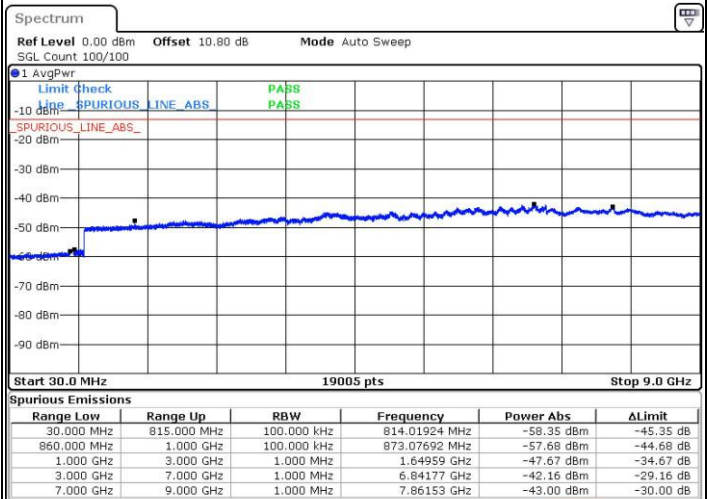
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 17.FEB.2017 14:30:18

Lowest Channel / 16QAM

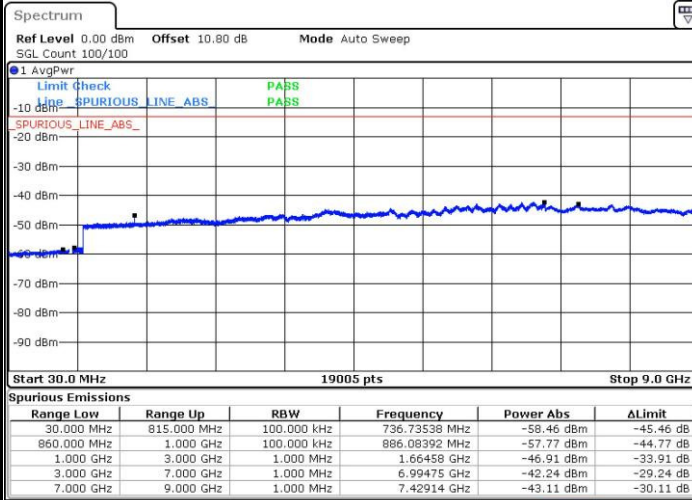


Date: 17.FEB.2017 14:31:12



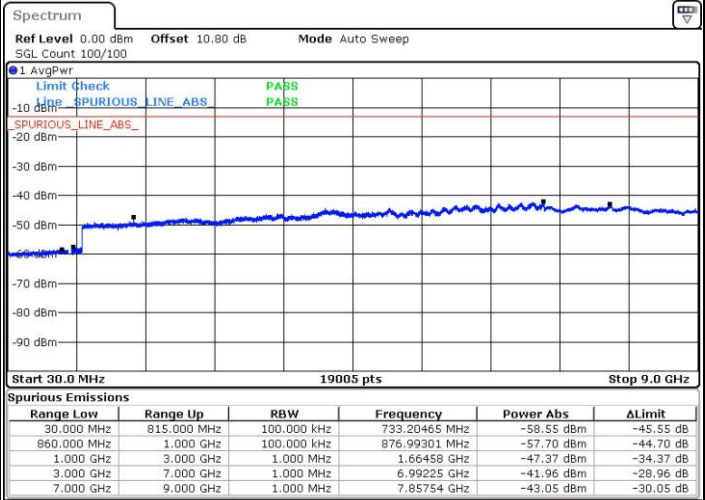
LTE Band 5 / 10MHz

Middle Channel / QPSK



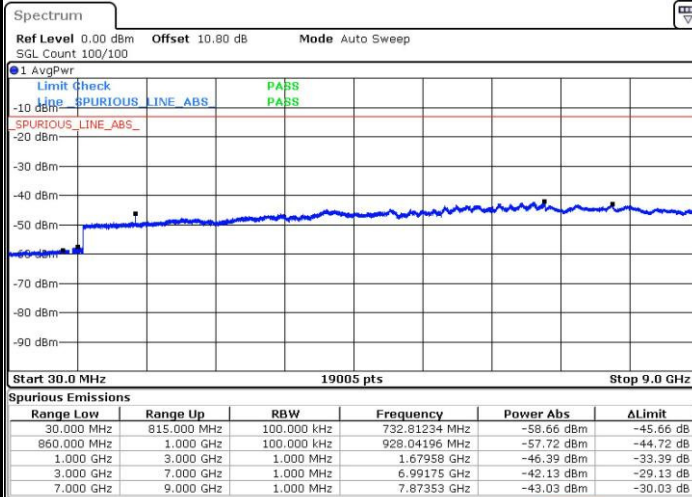
Date: 17.FEB.2017 14:32:47

Middle Channel / 16QAM



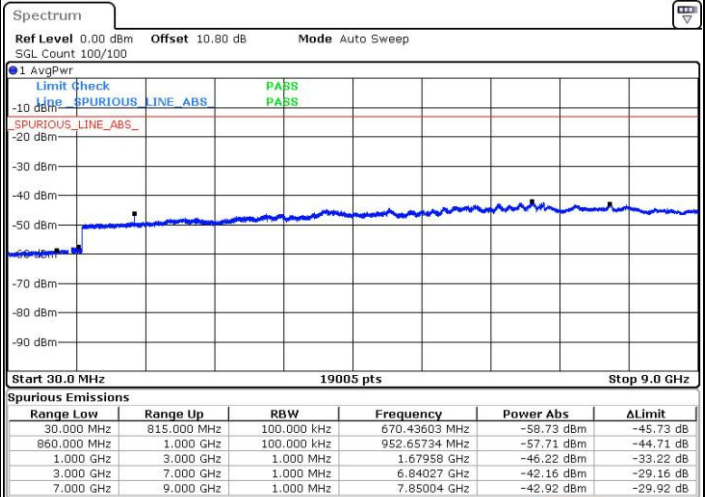
Date: 17.FEB.2017 14:33:41

Highest Channel / QPSK



Date: 17.FEB.2017 14:41:52

Highest Channel / 16QAM



Date: 17.FEB.2017 14:42:46

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	0.0071	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0078	
-10	Normal Voltage	0.0065	
-20	Normal Voltage	0.0059	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0072	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0069	

Note:

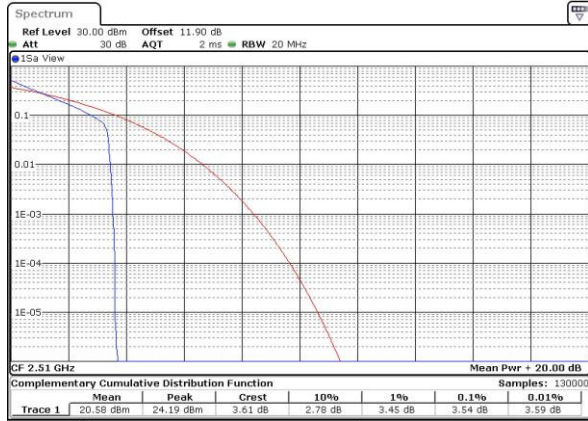
1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



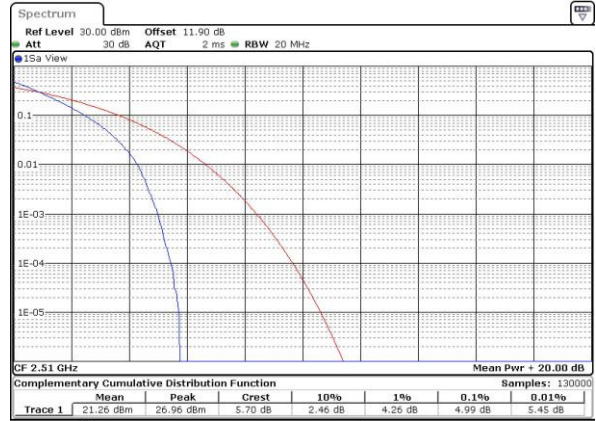
LTE Band 7

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	3.54	4.99	4.32	6	PASS
Middle CH	3.62	4.99	4.17	5.91	
Highest CH	3.65	4.84	4.67	5.94	

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


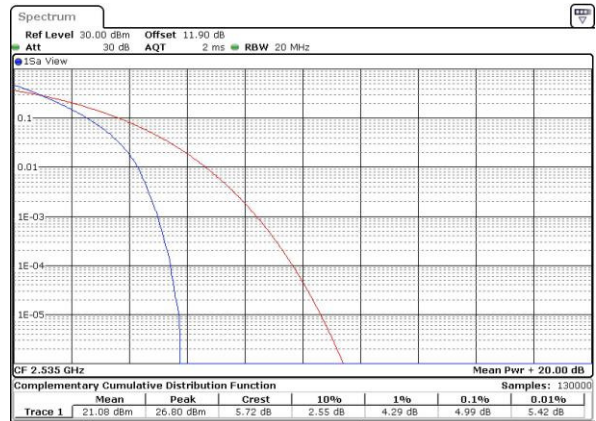
Date: 17 FEB 2017 13:38:37

Lowest Channel / Full RB


Date: 17 FEB 2017 13:38:47

Middle Channel / 1RB

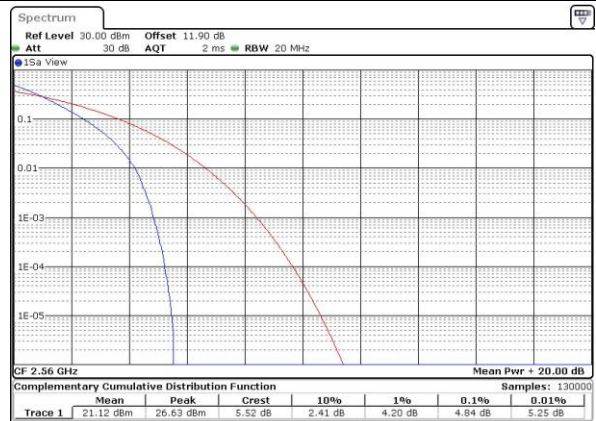

Date: 17 FEB 2017 13:38:56

Middle Channel / Full RB


Date: 17 FEB 2017 13:39:06

Highest Channel / 1RB


Date: 17 FEB 2017 13:39:30

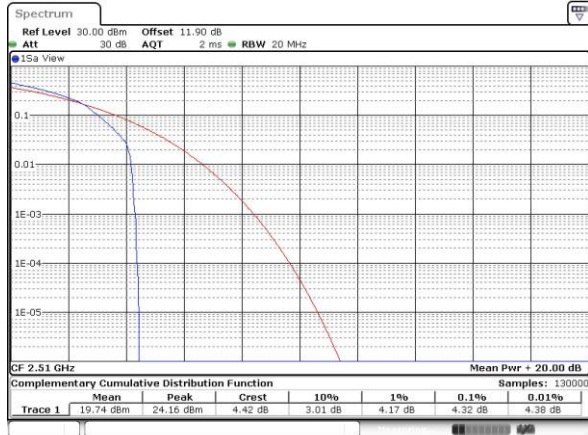
Highest Channel / Full RB


Date: 17 FEB 2017 13:39:40

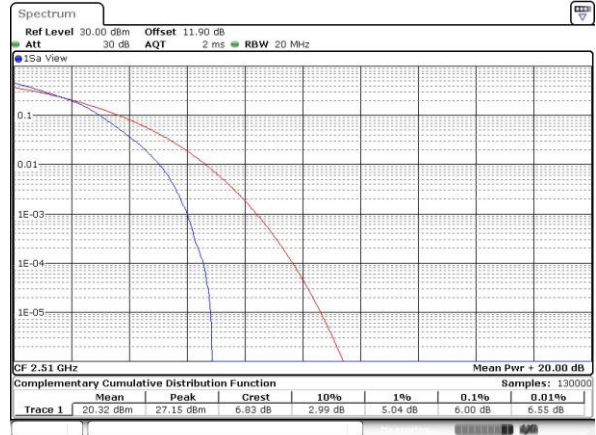


LTE Band 7 / 20MHz / 16QAM

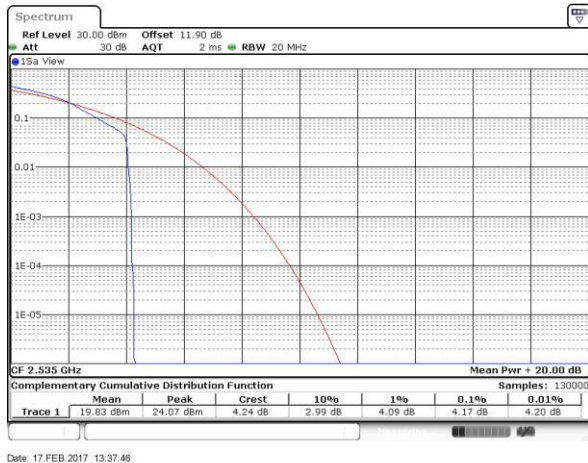
Lowest Channel / 1RB



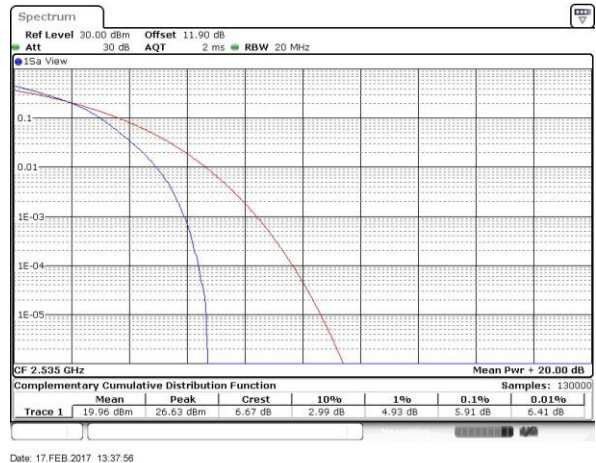
Lowest Channel / Full RB



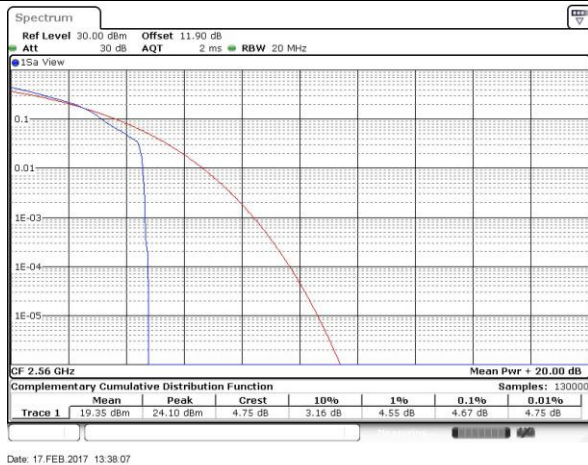
Middle Channel / 1RB



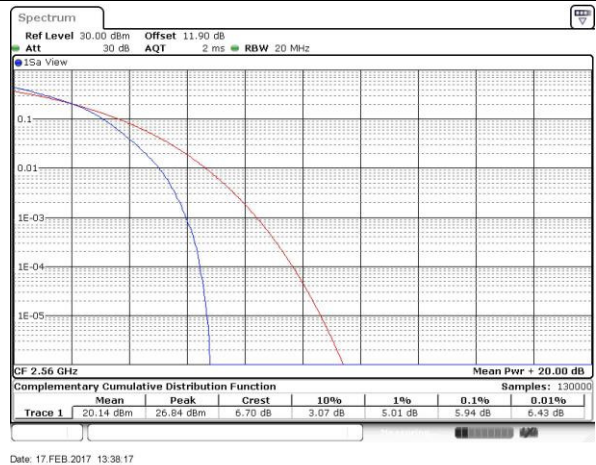
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



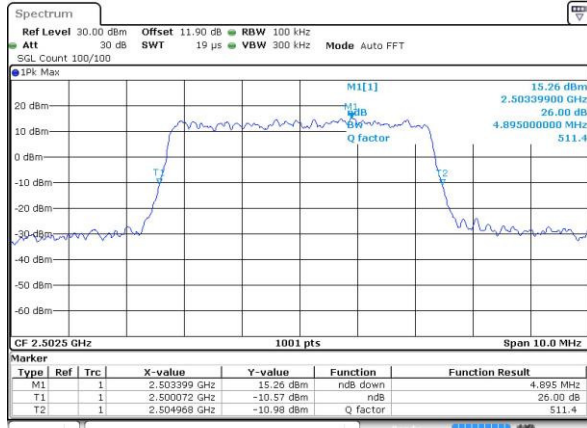
**26dB Bandwidth**

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.90	4.87	9.77	9.67	14.75	14.42	20.10	20.18
Middle CH	-	-	-	-	4.91	4.93	9.83	9.67	14.39	14.57	20.26	20.26
Highest CH	-	-	-	-	4.96	4.92	9.85	9.91	14.24	14.42	20.10	20.18

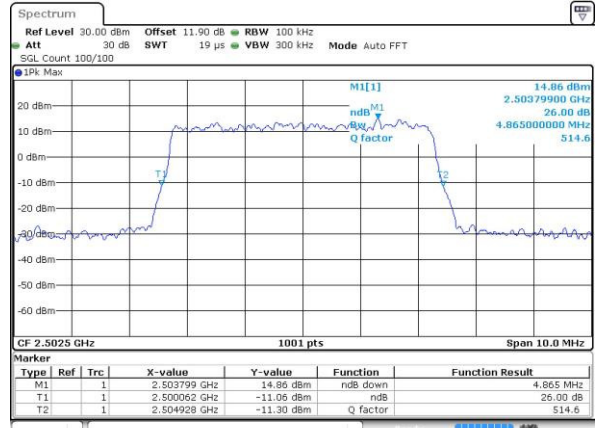


LTE Band 7

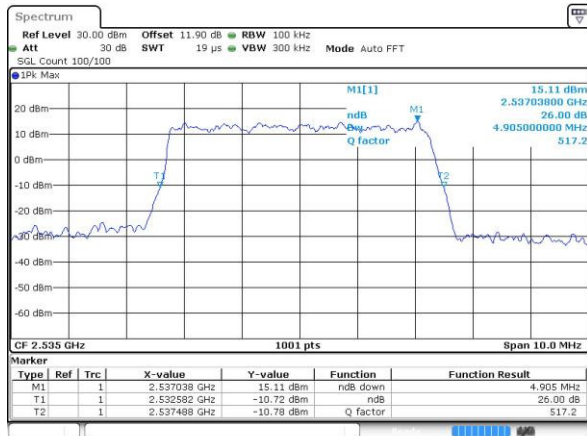
Lowest Channel / 5MHz / QPSK



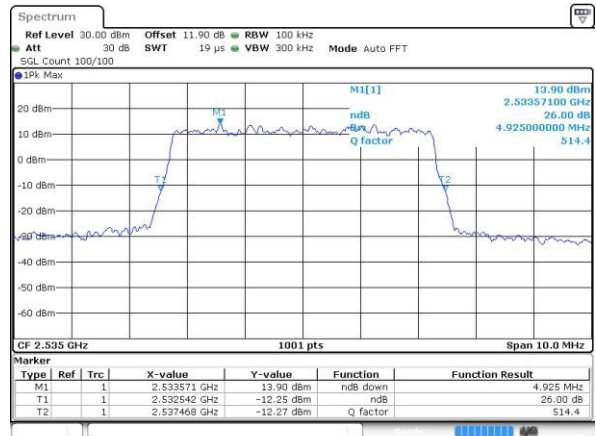
Lowest Channel / 5MHz / 16QAM



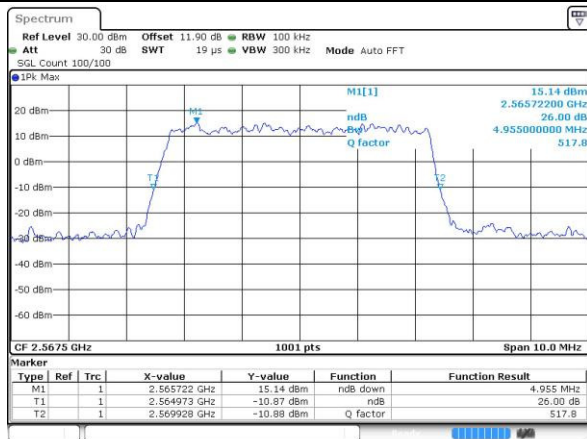
Middle Channel / 5MHz / QPSK



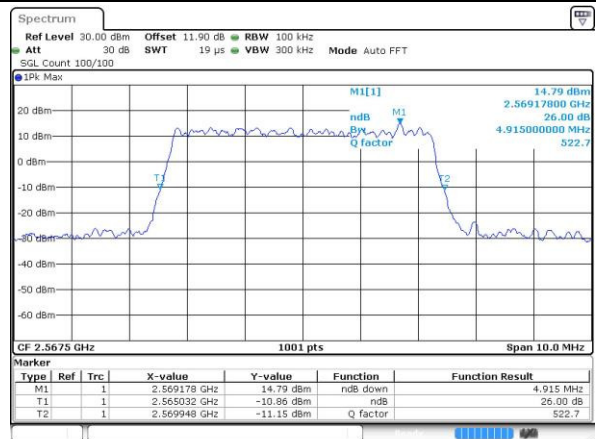
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



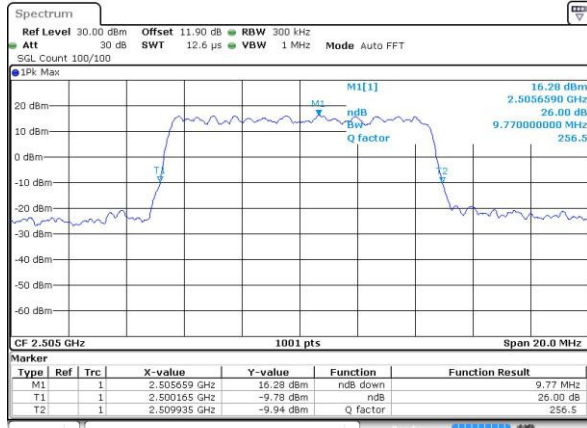
Highest Channel / 5MHz / 16QAM





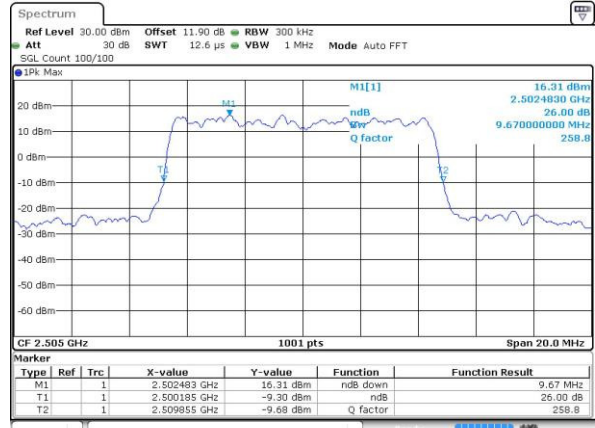
LTE Band 7

Lowest Channel / 10MHz / QPSK



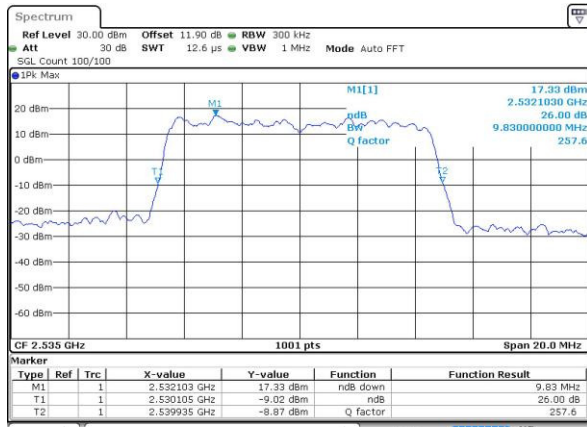
Date: 17 FEB 2017 11:30:35

Lowest Channel / 10MHz / 16QAM



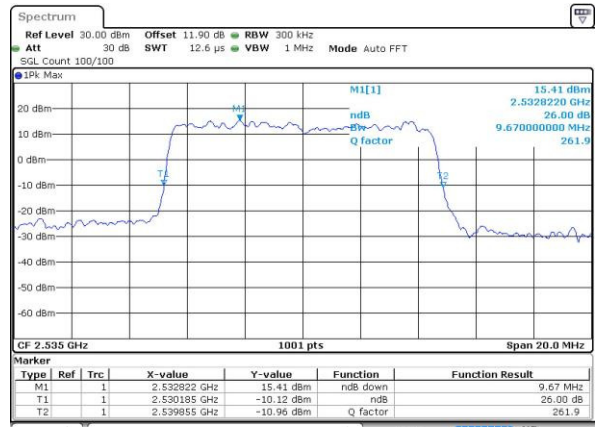
Date: 17 FEB 2017 11:30:45

Middle Channel / 10MHz / QPSK



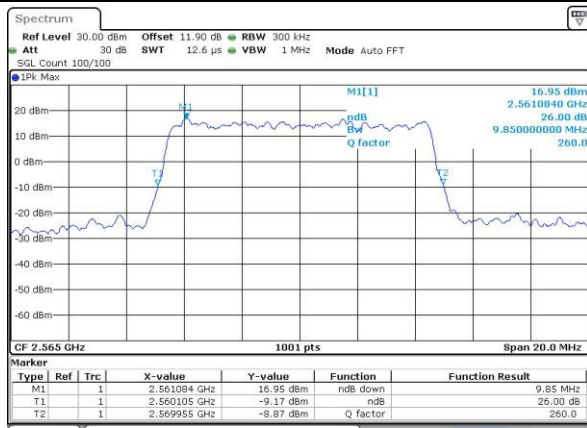
Date: 17 FEB 2017 11:37:43

Middle Channel / 10MHz / 16QAM



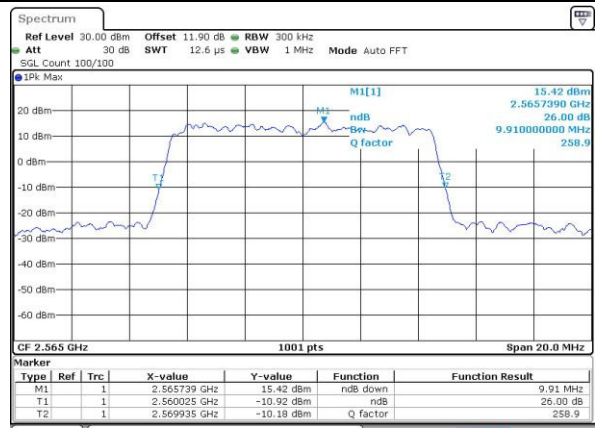
Date: 17 FEB 2017 11:37:53

Highest Channel / 10MHz / QPSK



Date: 17 FEB 2017 11:40:12

Highest Channel / 10MHz / 16QAM

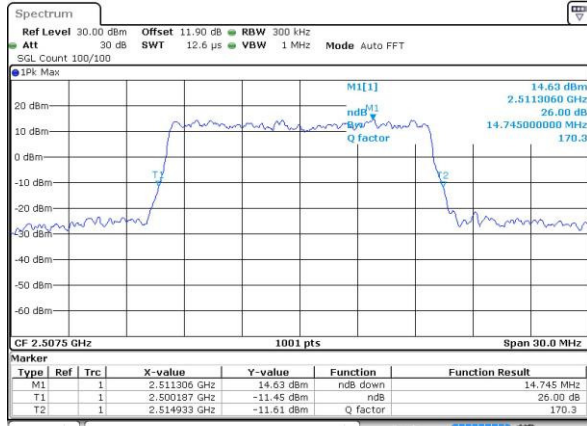


Date: 17 FEB 2017 11:40:22



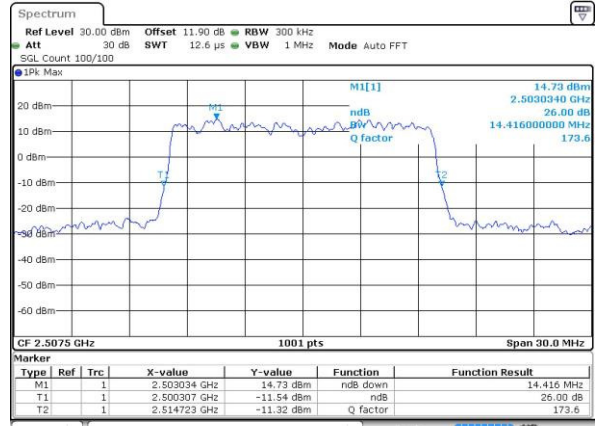
LTE Band 7

Lowest Channel / 15MHz / QPSK



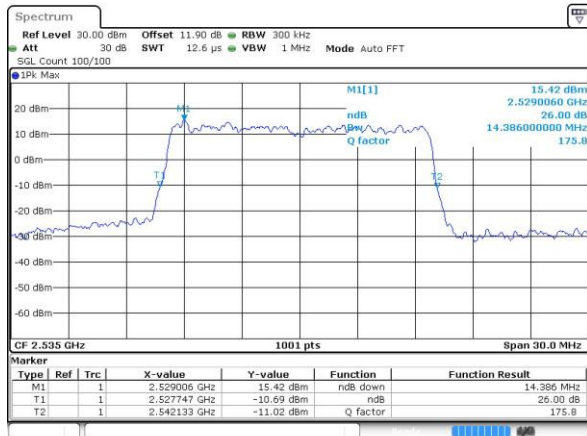
Date: 17 FEB 2017 11:47:20

Lowest Channel / 15MHz / 16QAM



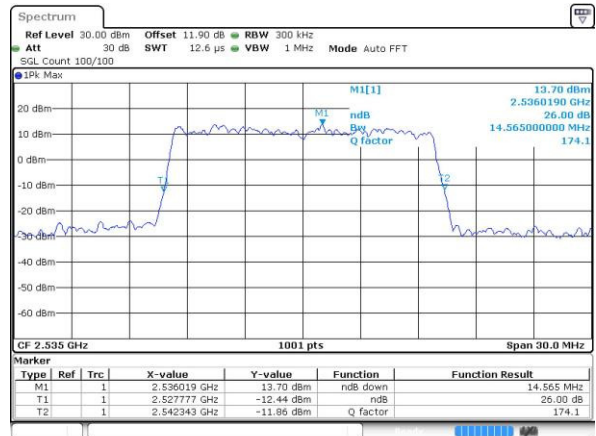
Date: 17 FEB 2017 11:47:30

Middle Channel / 15MHz / QPSK



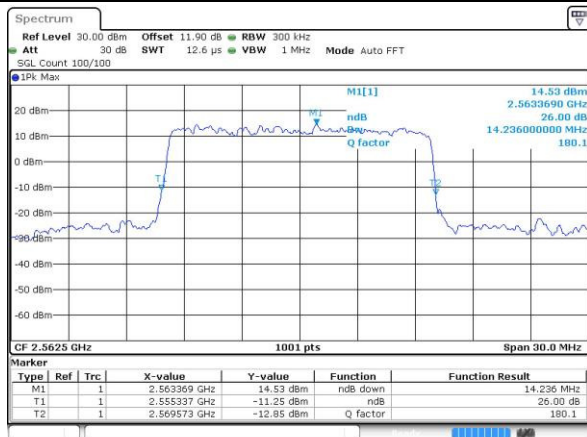
Date: 17 FEB 2017 11:54:28

Middle Channel / 15MHz / 16QAM



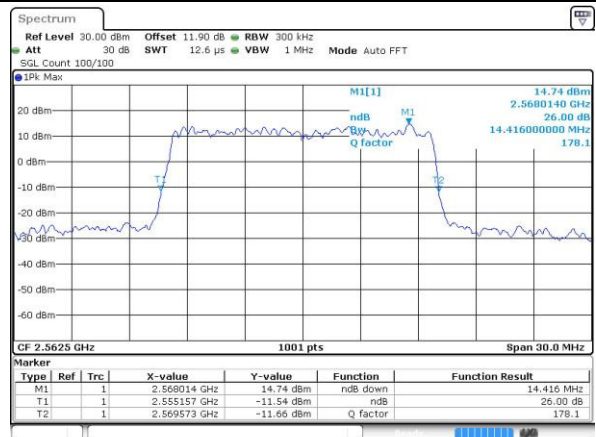
Date: 17 FEB 2017 11:54:38

Highest Channel / 15MHz / QPSK



Date: 17 FEB 2017 11:56:57

Highest Channel / 15MHz / 16QAM

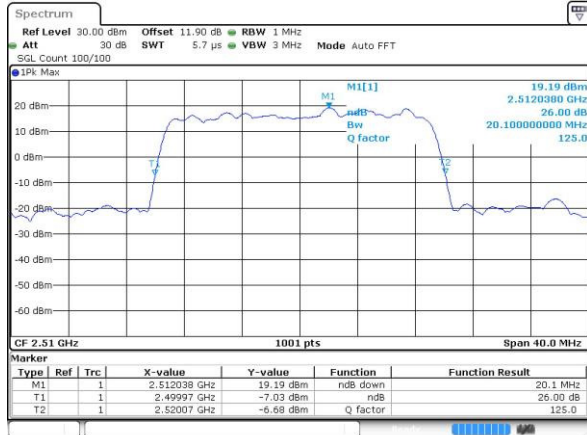


Date: 17 FEB 2017 11:57:07

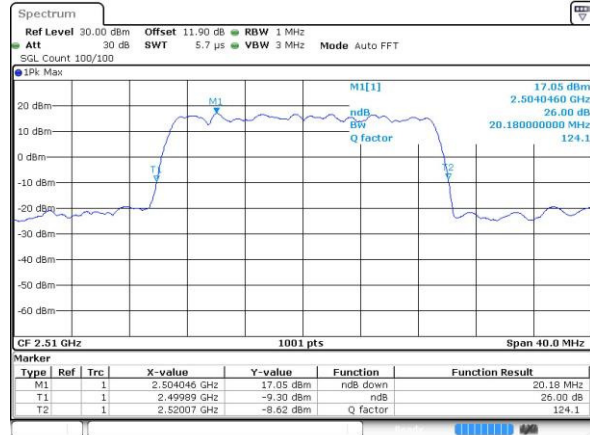


LTE Band 7

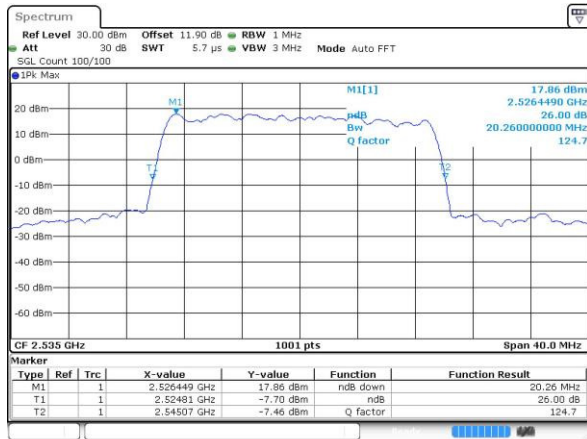
Lowest Channel / 20MHz / QPSK



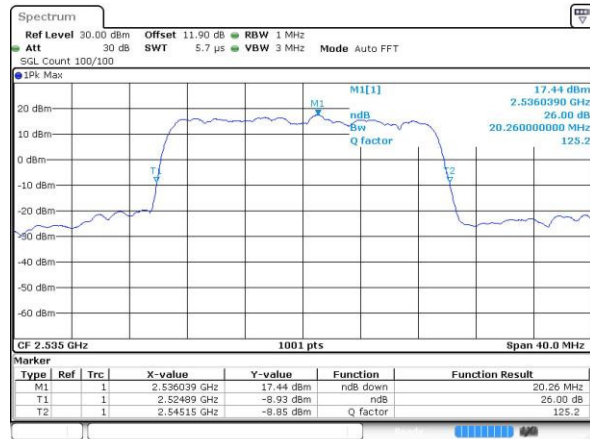
Lowest Channel / 20MHz / 16QAM



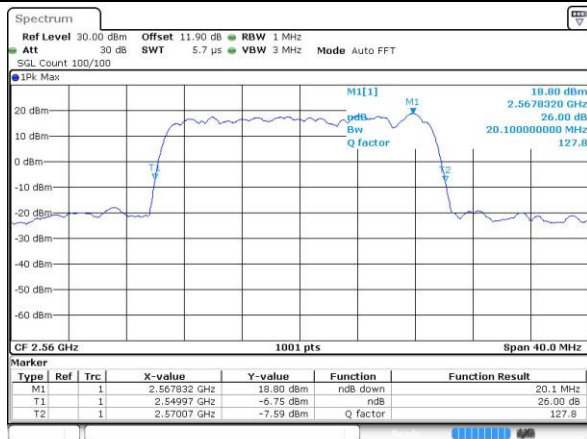
Middle Channel / 20MHz / QPSK



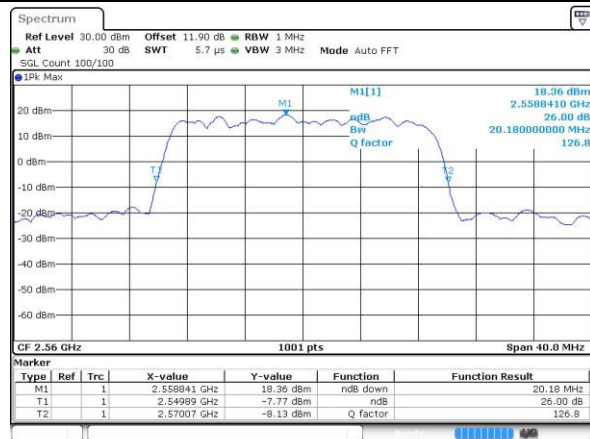
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



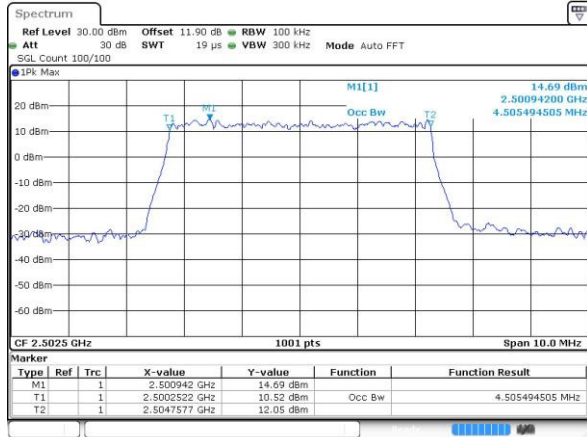
**Occupied Bandwidth**

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.51	4.5	9.07	9.03	13.43	13.52	18.42	18.46
Middle CH	-	-	-	-	4.48	4.47	8.99	9.01	13.4	13.4	18.5	18.34
Highest CH	-	-	-	-	4.49	4.48	9.05	9.01	13.49	13.46	18.38	18.34

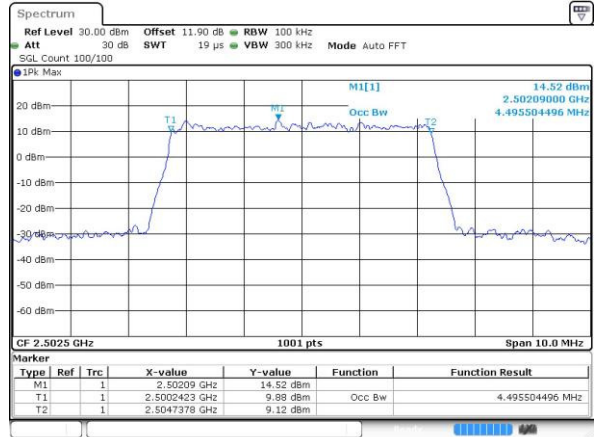


LTE Band 7

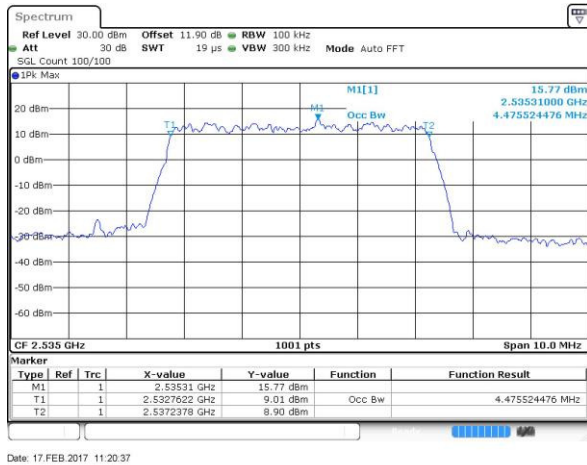
Lowest Channel / 5MHz / QPSK



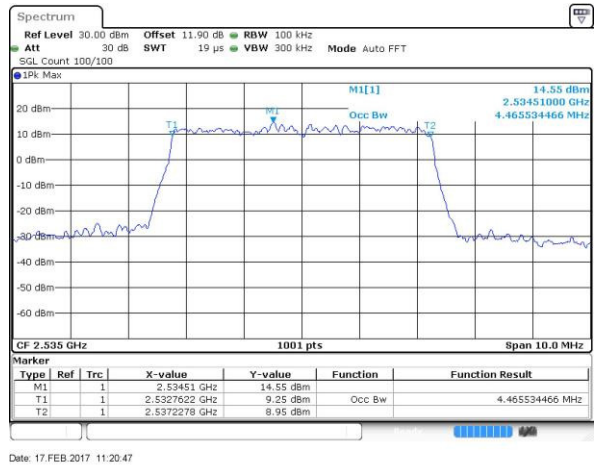
Lowest Channel / 5MHz / 16QAM



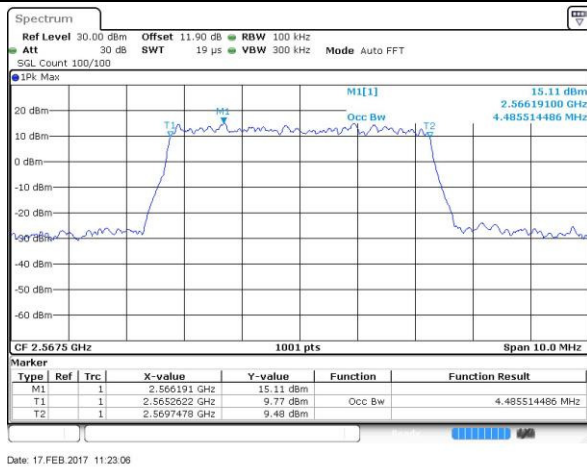
Middle Channel / 5MHz / QPSK



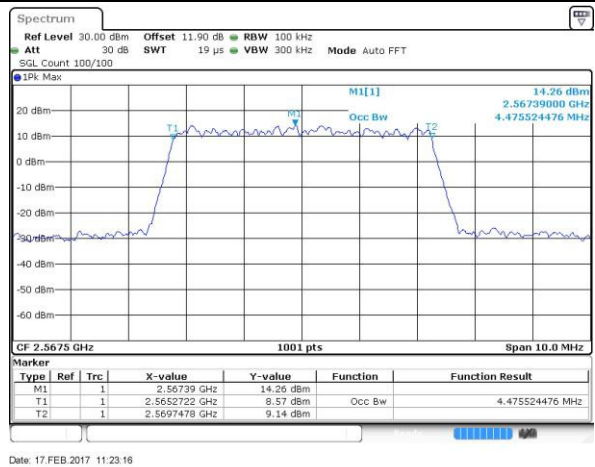
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



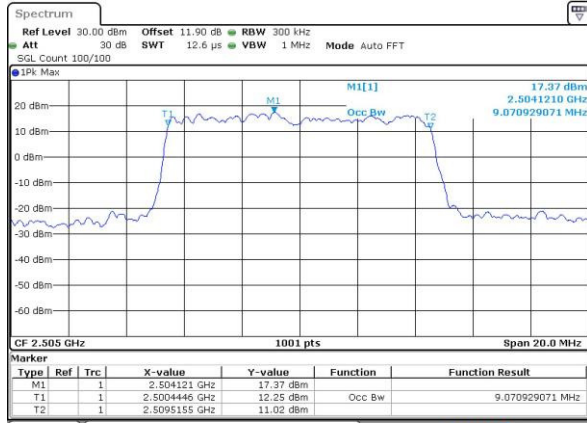
Highest Channel / 5MHz / 16QAM





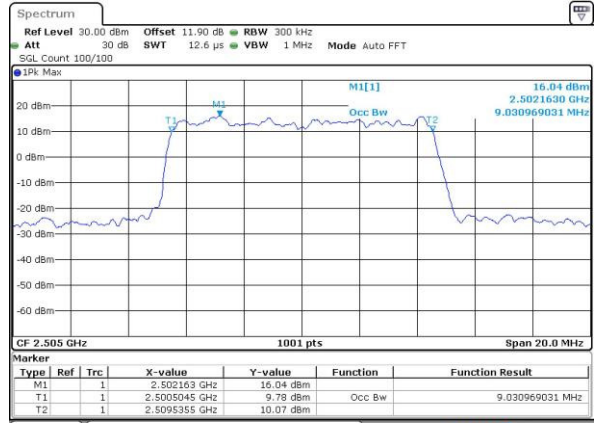
LTE Band 7

Lowest Channel / 10MHz / QPSK



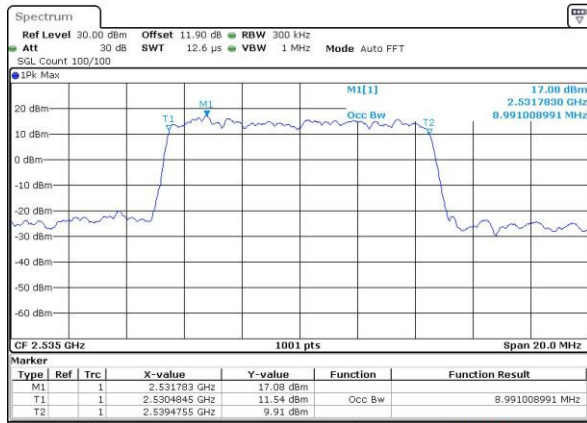
Date: 17 FEB 2017 11:30:14

Lowest Channel / 10MHz / 16QAM



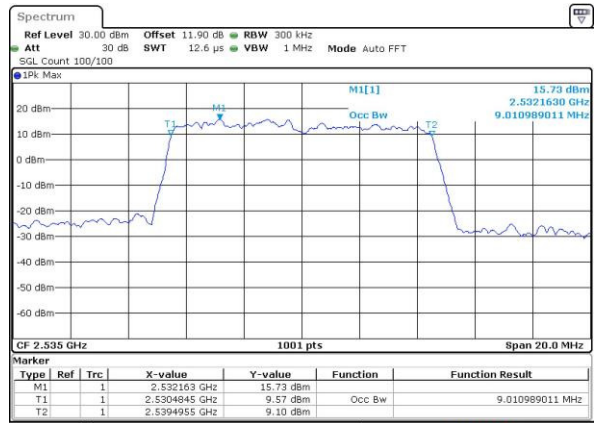
Date: 17 FEB 2017 11:30:24

Middle Channel / 10MHz / QPSK



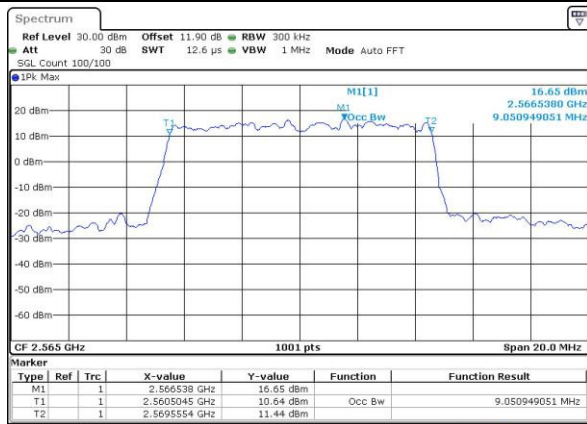
Date: 17 FEB 2017 11:37:22

Middle Channel / 10MHz / 16QAM



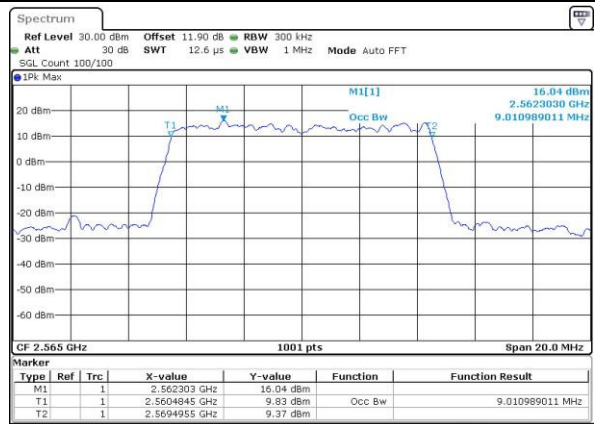
Date: 17 FEB 2017 11:37:32

Highest Channel / 10MHz / QPSK



Date: 17 FEB 2017 11:39:51

Highest Channel / 10MHz / 16QAM



Date: 17 FEB 2017 11:40:02