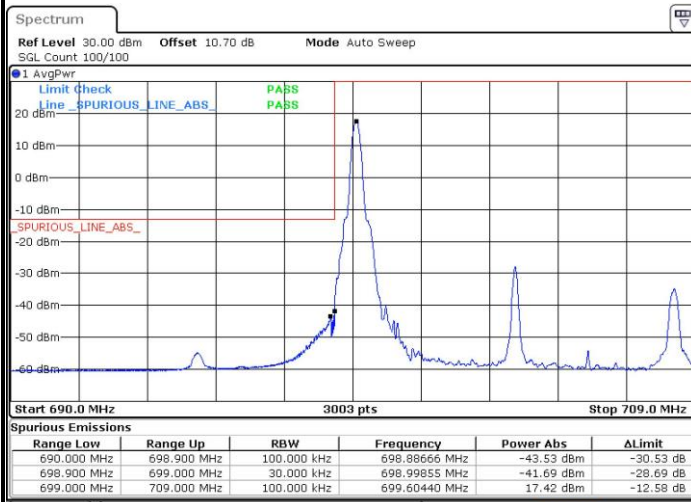


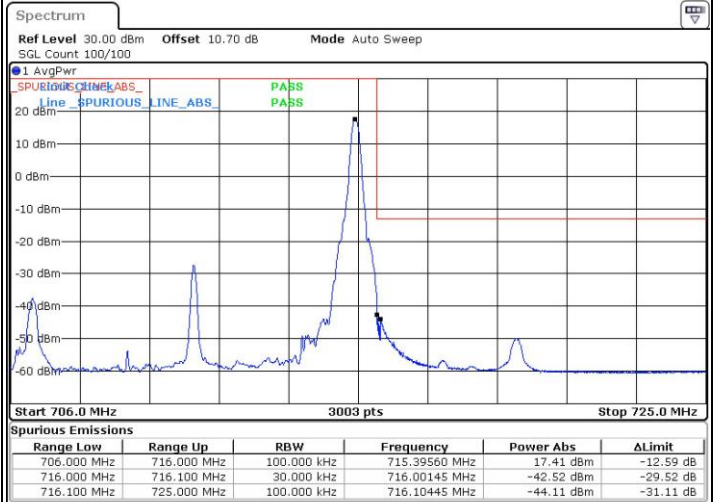


LTE Band 12 / 10MHz / 64QAM

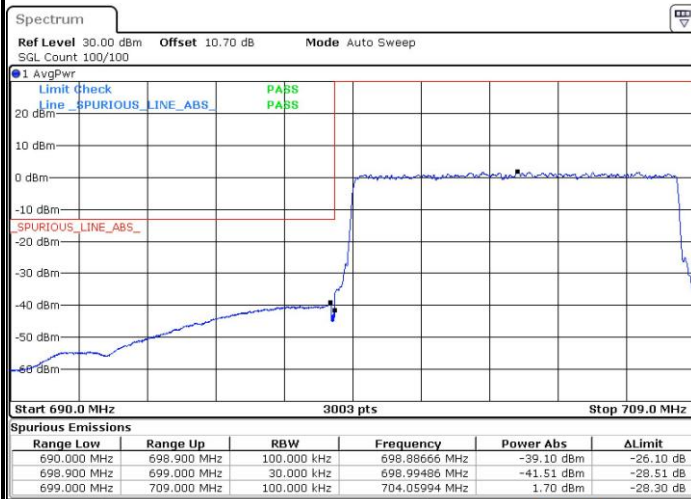
Lowest Band Edge / 1 RB



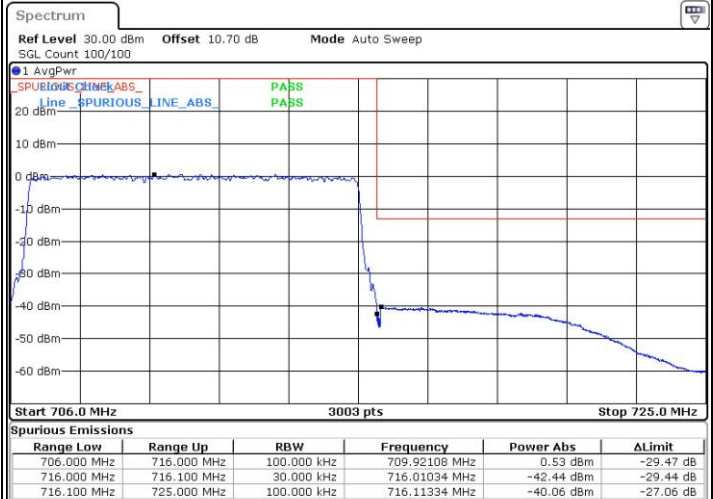
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

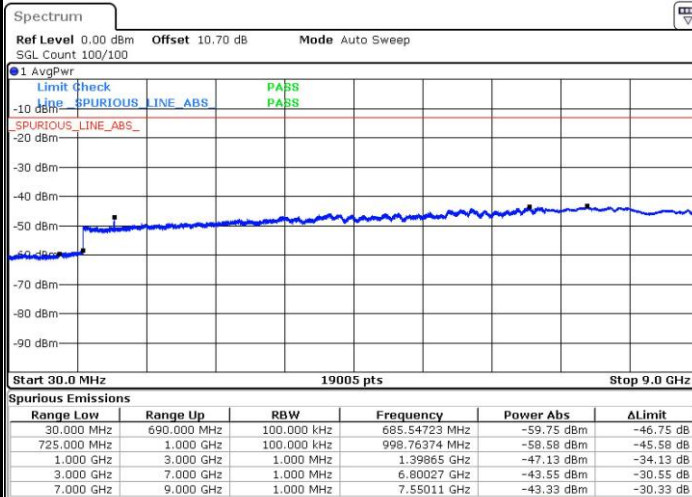




Conducted Spurious Emission

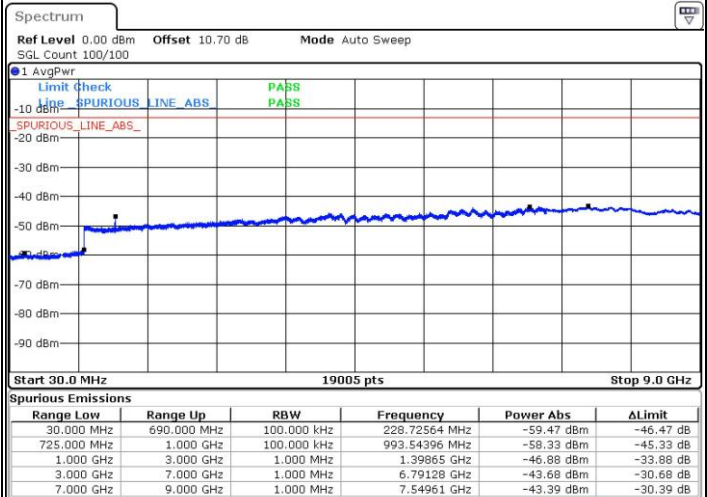
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



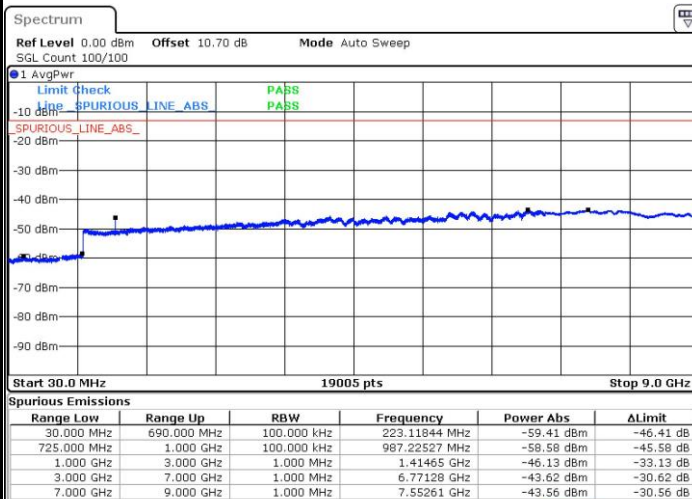
Date: 20 SEP.2018 14:09:30

Lowest Channel / 16QAM



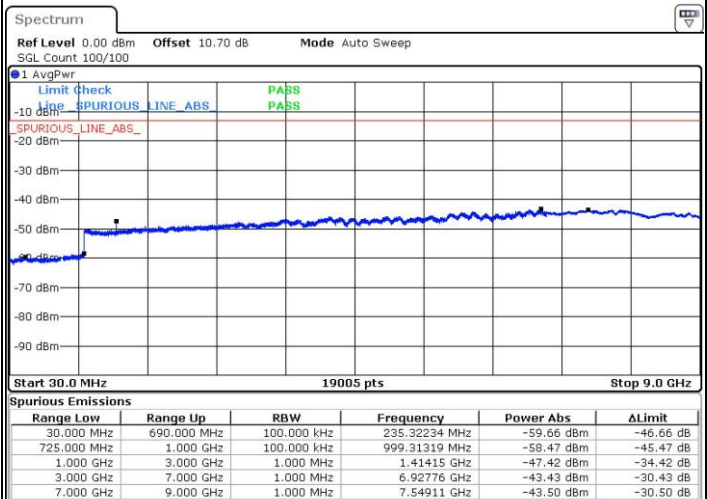
Date: 20 SEP.2018 14:10:11

Middle Channel / QPSK



Date: 20 SEP.2018 14:12:17

Middle Channel / 16QAM

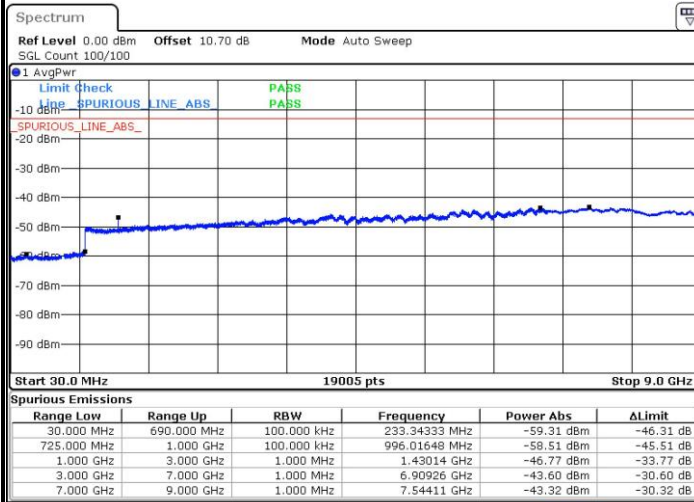


Date: 20 SEP.2018 14:11:37



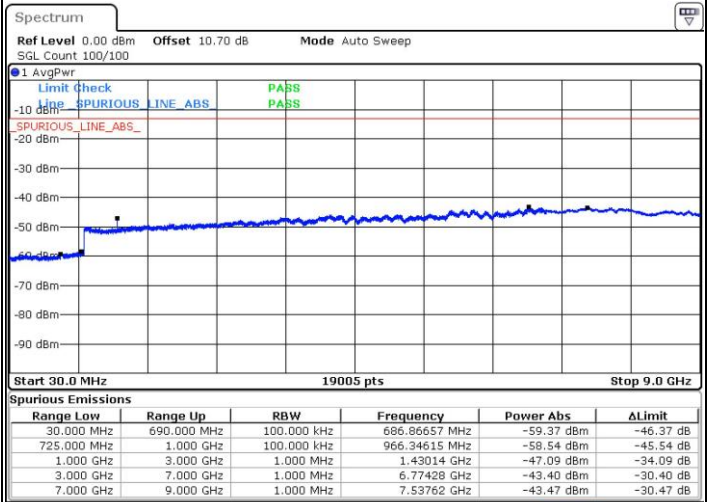
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 20 SEP 2018 14:17:43

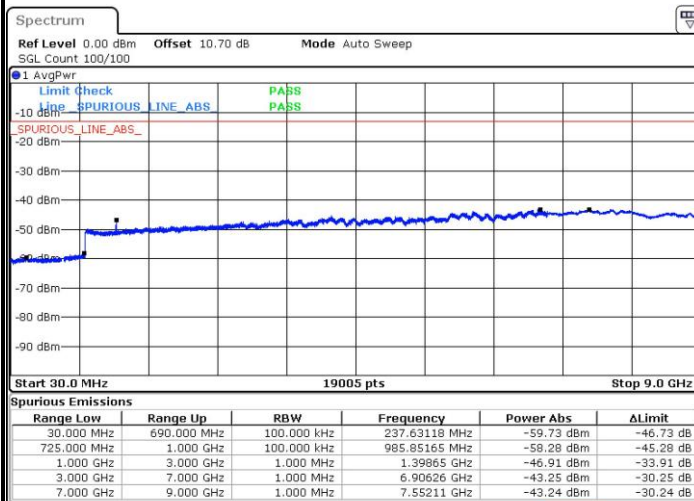
Highest Channel / 16QAM



Date: 20 SEP 2018 14:18:24

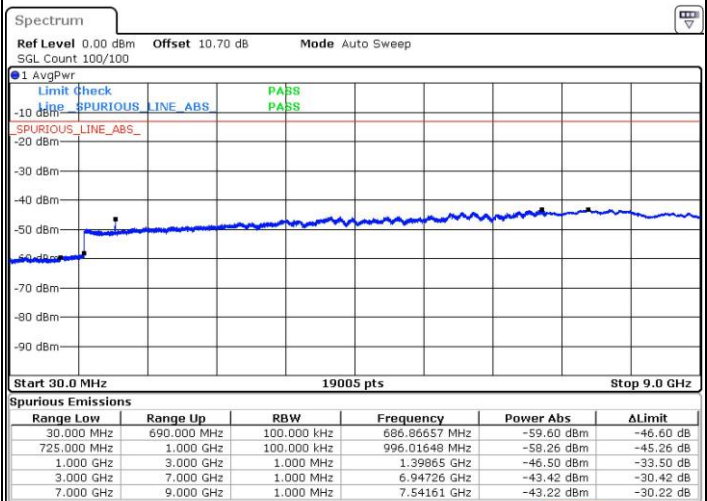
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 18 SEP 2018 21:02:55

Lowest Channel / 16QAM

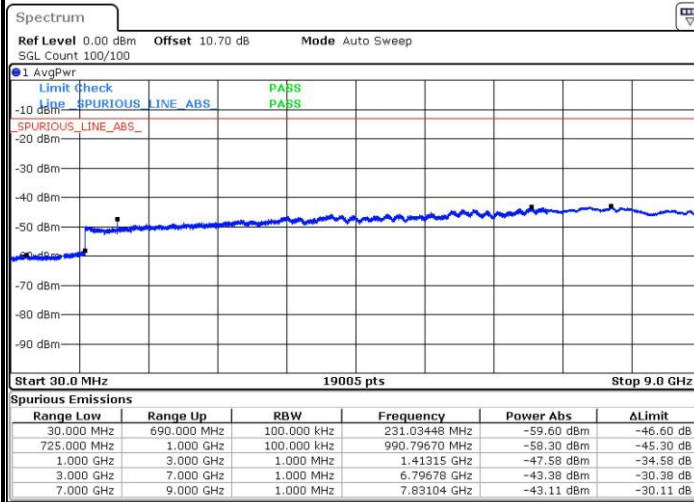


Date: 18 SEP 2018 21:03:36



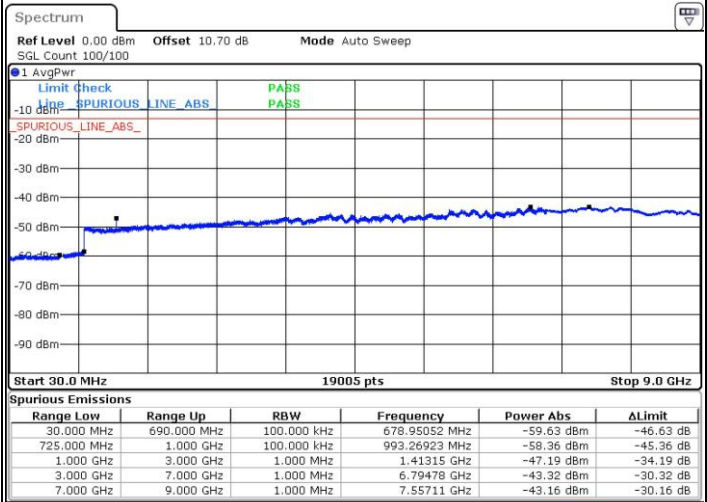
LTE Band 12 / 3MHz

Middle Channel / QPSK



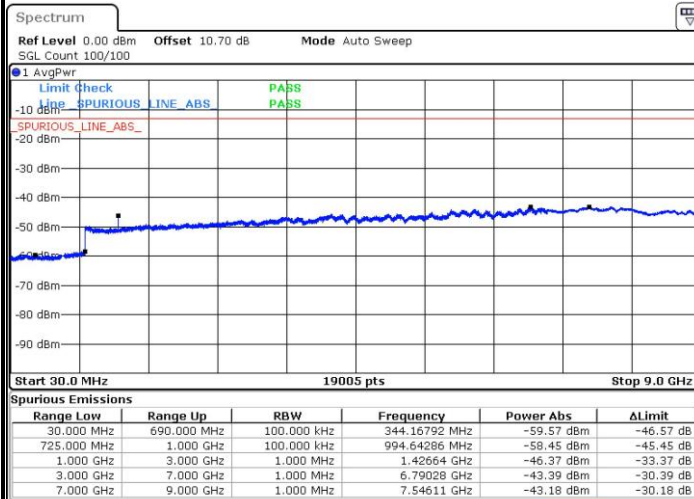
Date: 18 SEP 2018 21:05:42

Middle Channel / 16QAM



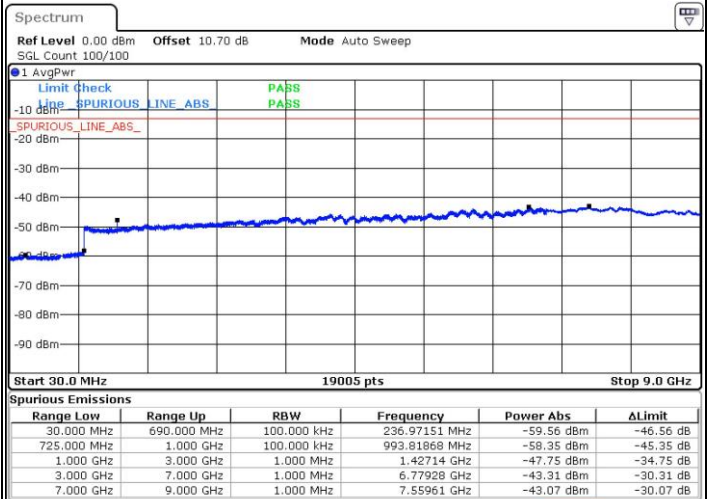
Date: 18 SEP 2018 21:05:02

Highest Channel / QPSK



Date: 18 SEP 2018 21:11:10

Highest Channel / 16QAM

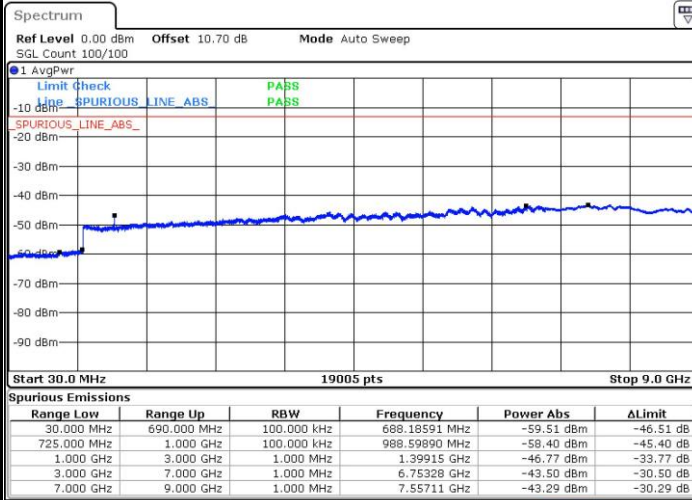


Date: 18 SEP 2018 21:11:50



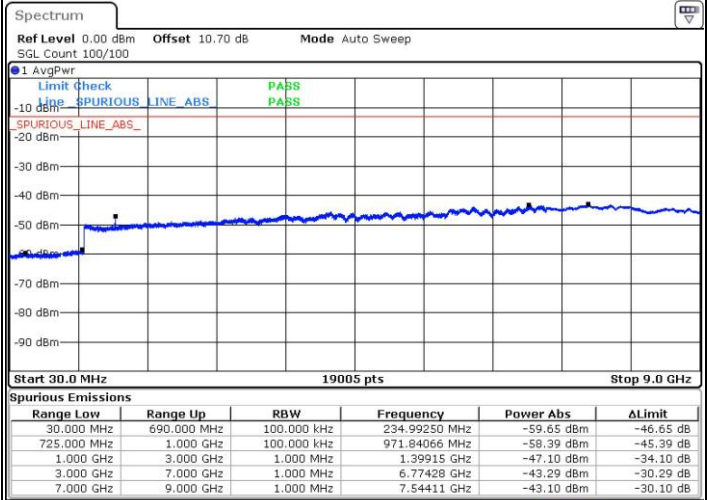
LTE Band 12 / 5MHz

Lowest Channel / QPSK



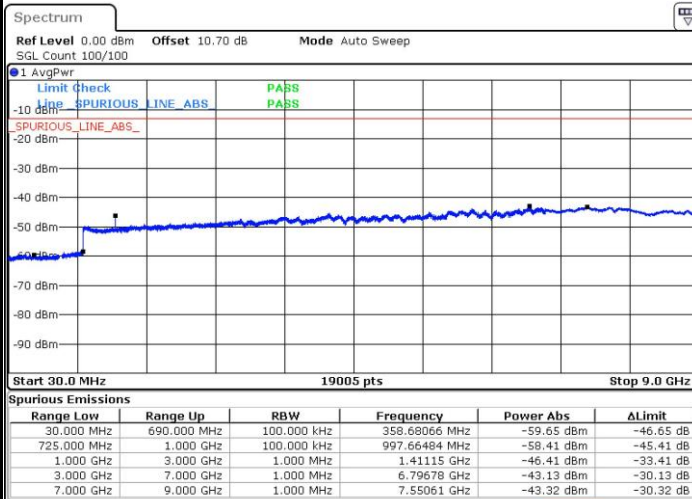
Date: 18 SEP 2018 21:17:18

Lowest Channel / 16QAM



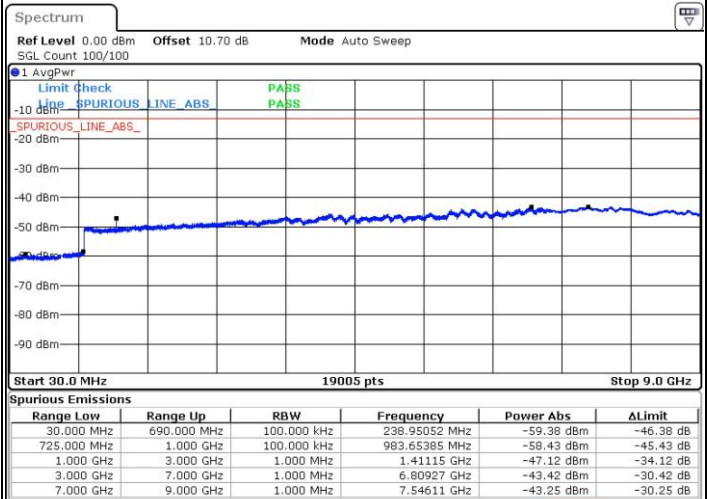
Date: 18 SEP 2018 21:17:58

Middle Channel / QPSK



Date: 18 SEP 2018 21:20:05

Middle Channel / 16QAM

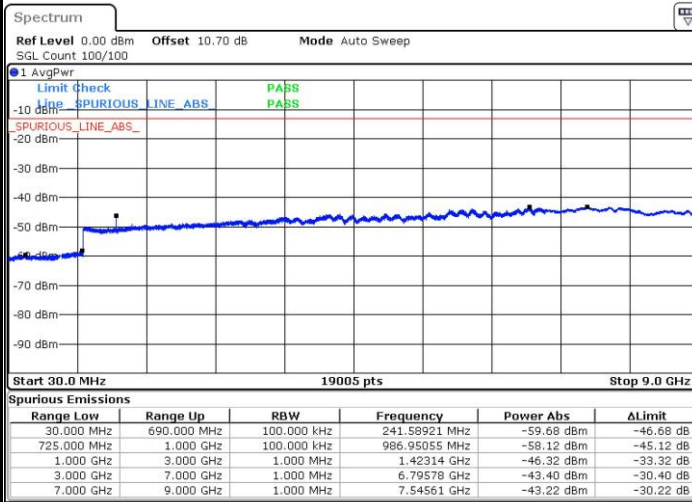


Date: 18 SEP 2018 21:19:25



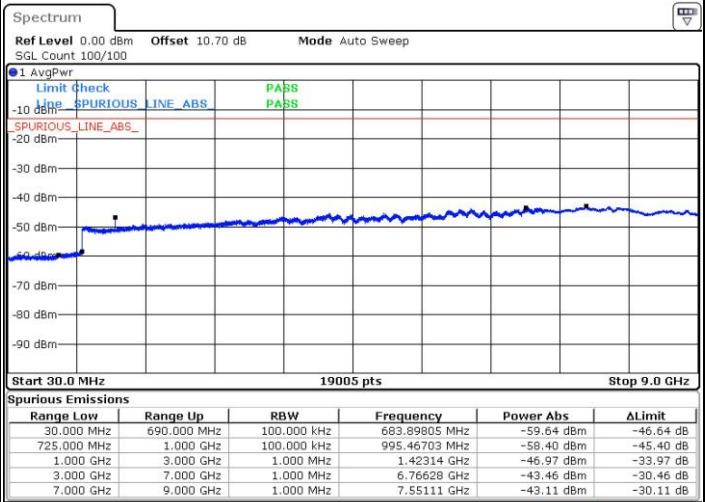
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 18 SEP 2018 21:26:13

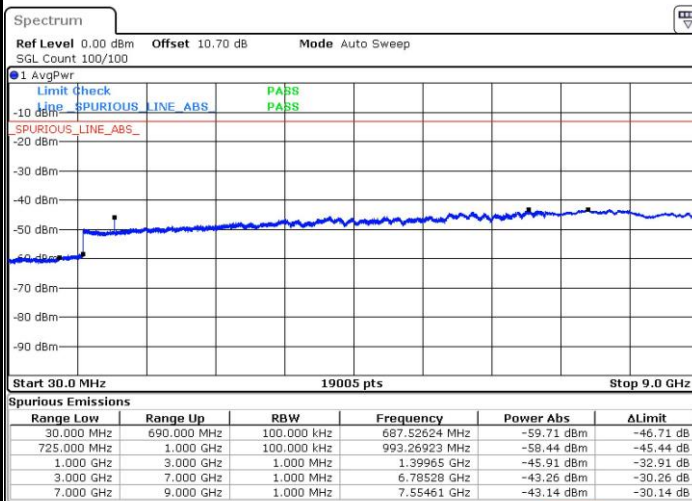
Highest Channel / 16QAM



Date: 18 SEP 2018 21:25:33

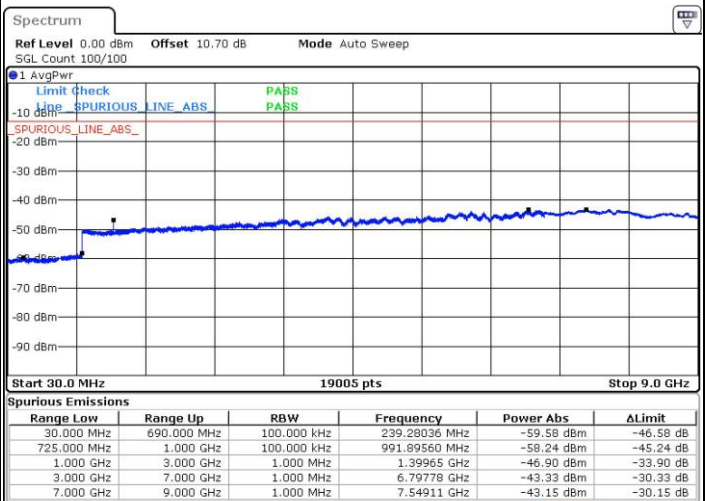
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 18 SEP 2018 21:31:41

Lowest Channel / 16QAM

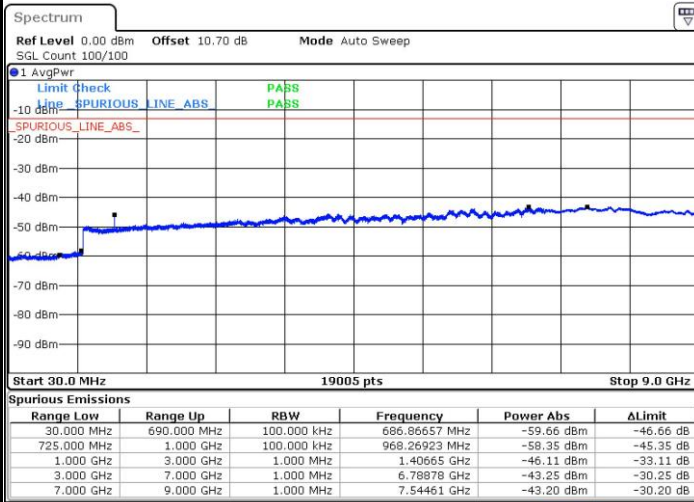


Date: 18 SEP 2018 21:32:22



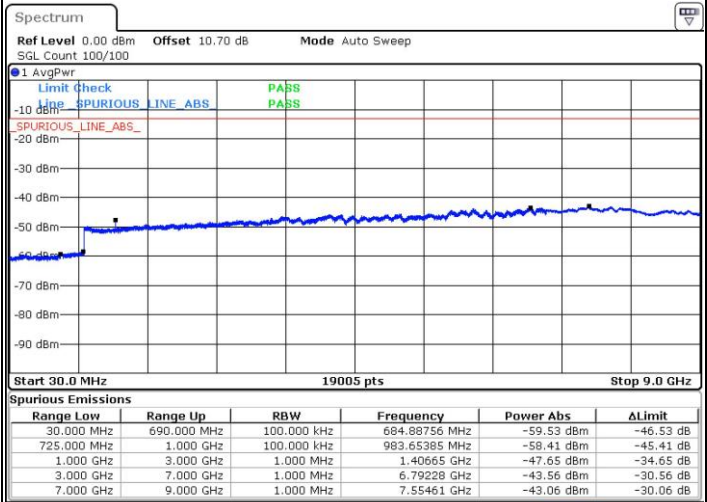
LTE Band 12 / 10MHz

Middle Channel / QPSK



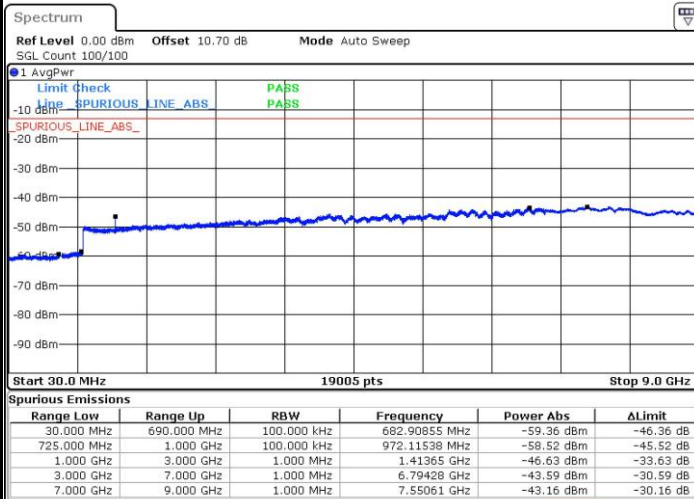
Date: 18 SEP 2018 21:34:29

Middle Channel / 16QAM



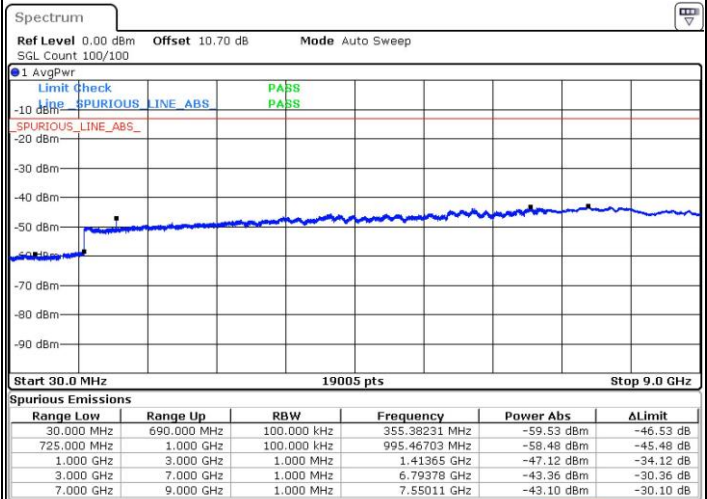
Date: 18 SEP 2018 21:33:49

Highest Channel / QPSK



Date: 18 SEP 2018 21:39:57

Highest Channel / 16QAM

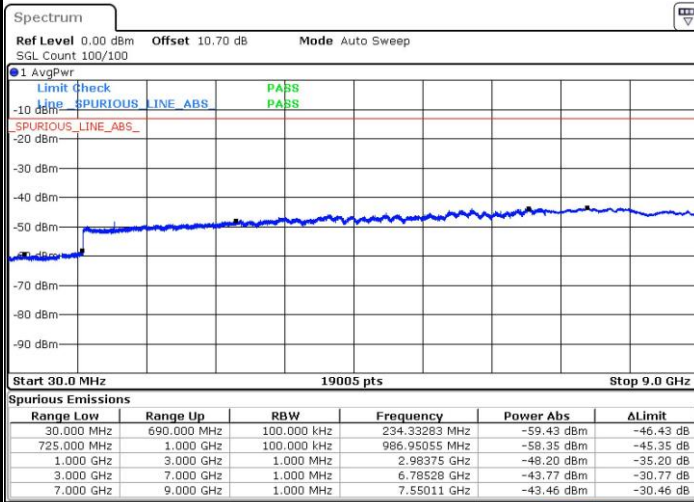


Date: 18 SEP 2018 21:40:37



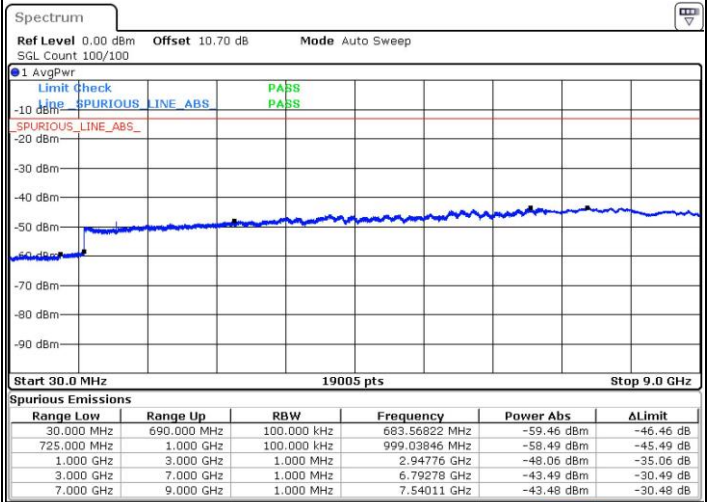
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM



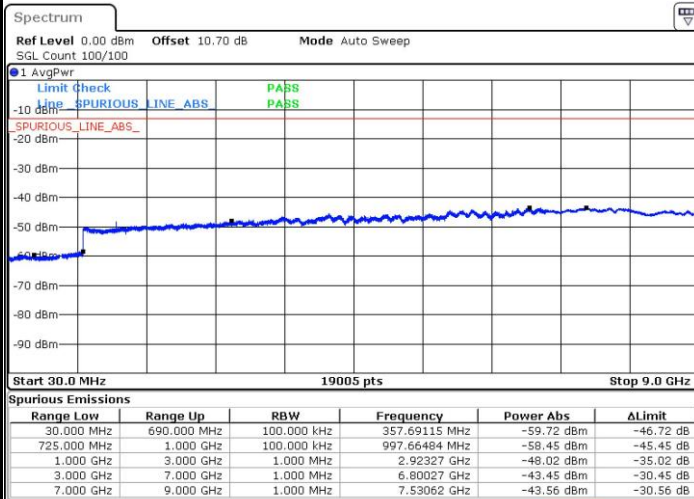
Date: 20 SEP 2018 14:51:46

Middle Channel / 64QAM



Date: 20 SEP 2018 14:52:49

Highest Channel / 64QAM

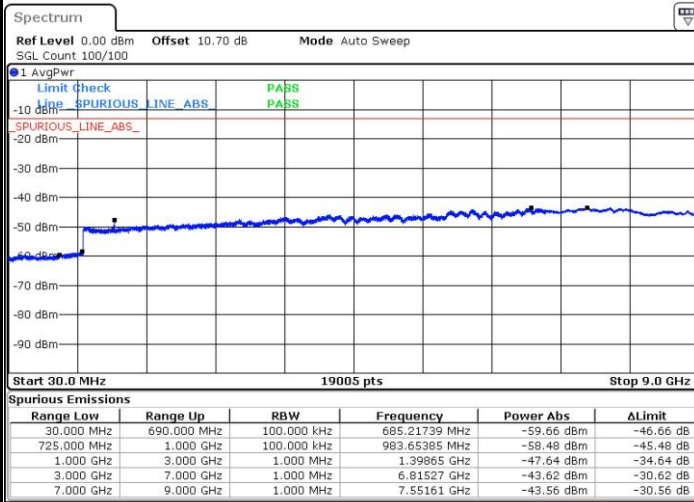


Date: 20 SEP 2018 14:55:52



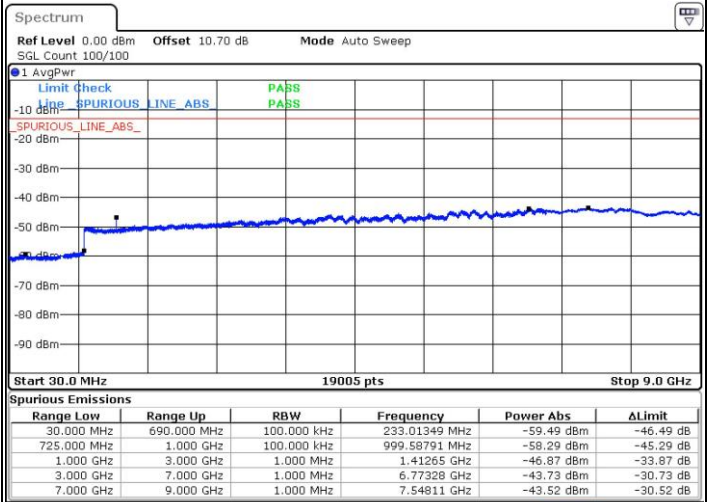
LTE Band 12 / 3MHz

Lowest Channel / 64QAM



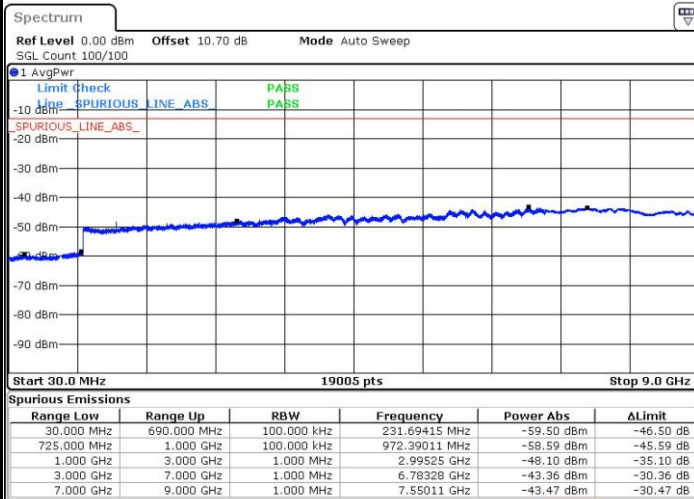
Date: 20 SEP 2018 14:21:27

Middle Channel / 64QAM



Date: 20 SEP 2018 14:22:30

Highest Channel / 64QAM

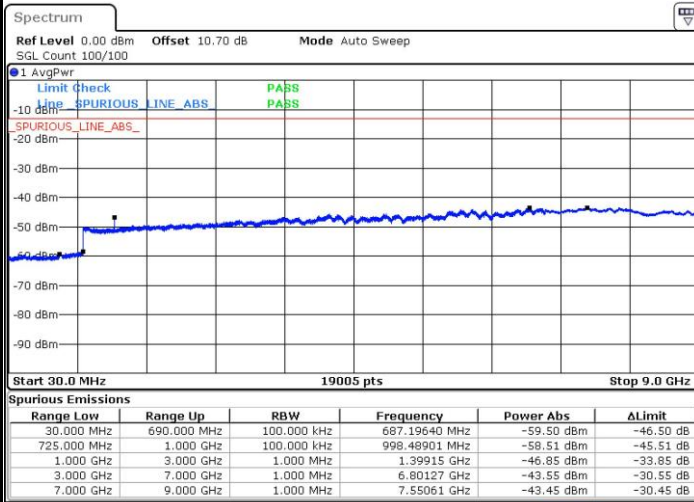


Date: 20 SEP 2018 14:25:33



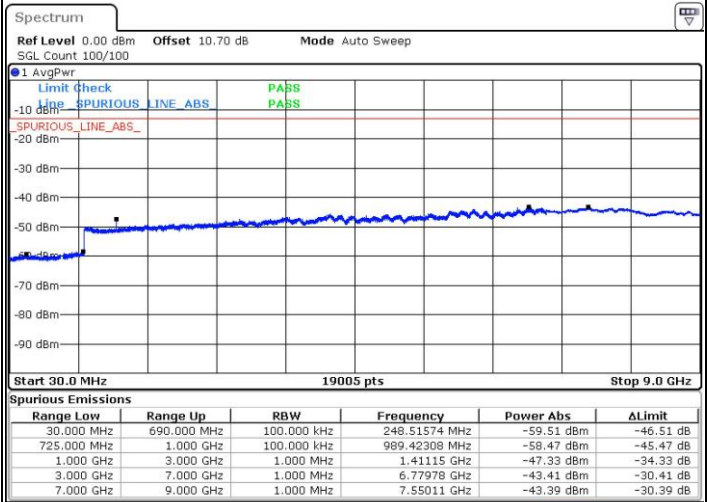
LTE Band 12 / 5MHz

Lowest Channel / 64QAM



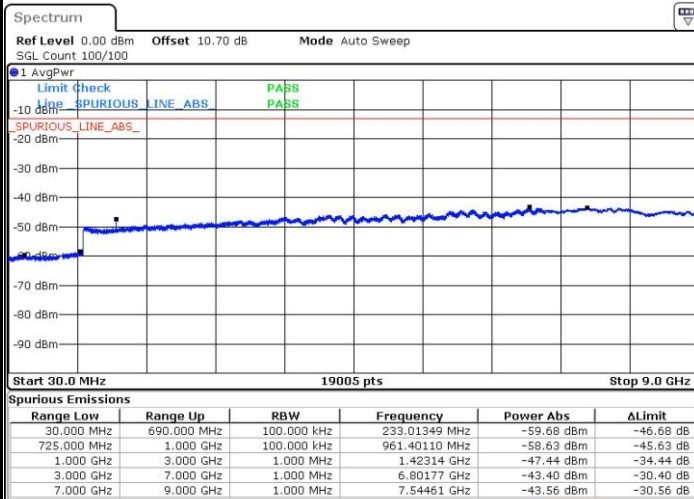
Date: 20 SEP 2018 14:28:36

Middle Channel / 64QAM



Date: 20 SEP 2018 14:29:39

Highest Channel / 64QAM

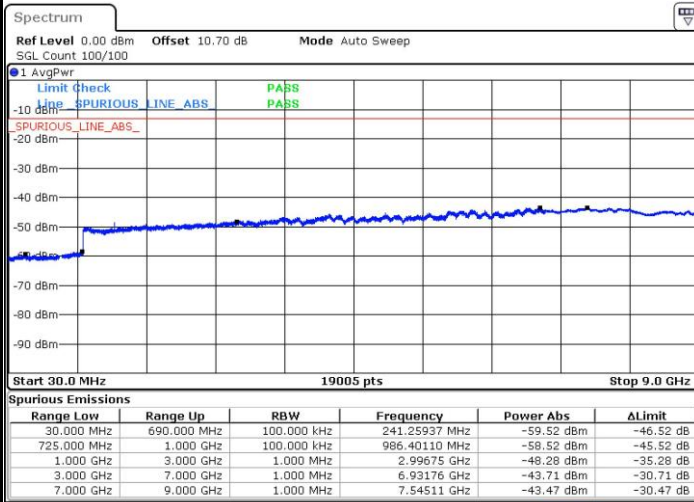


Date: 20 SEP 2018 14:32:42



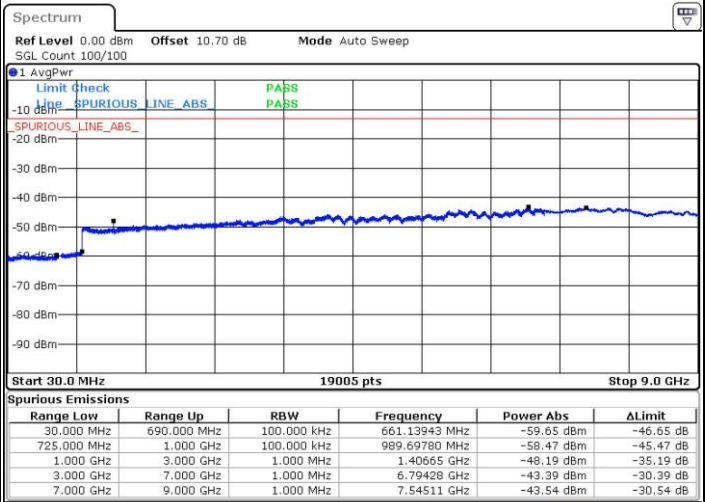
LTE Band 12 / 10MHz

Lowest Channel / 64QAM



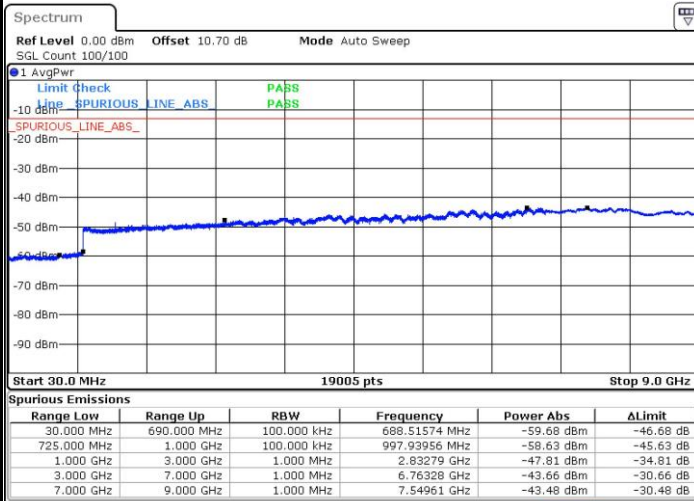
Date: 20 SEP 2018 14:41:43

Middle Channel / 64QAM



Date: 20 SEP 2018 14:42:46

Highest Channel / 64QAM



Date: 20 SEP 2018 14:45:49

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0147	PASS
40	Normal Voltage	0.0150	
30	Normal Voltage	0.0127	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0126	
-20	Normal Voltage	0.0146	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0130	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 17

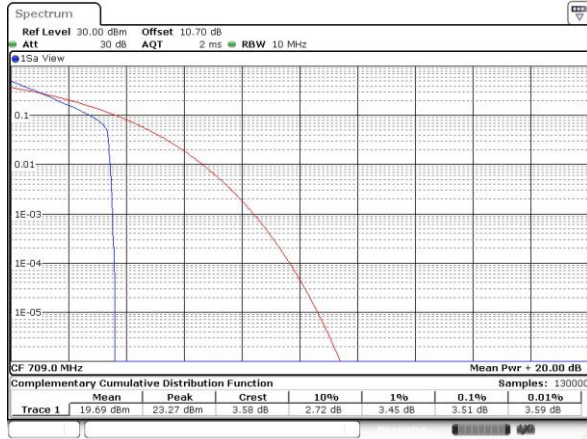
Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	4.55	5.19	5.8	PASS
Middle CH	3.51	4.58	5.07	5.74	
Highest CH	3.54	4.61	5.3	5.74	
Mode	LTE Band 17 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.30	5.83	-	-	PASS
Middle CH	5.01	5.83	-	-	
Highest CH	5.33	5.77	-	-	

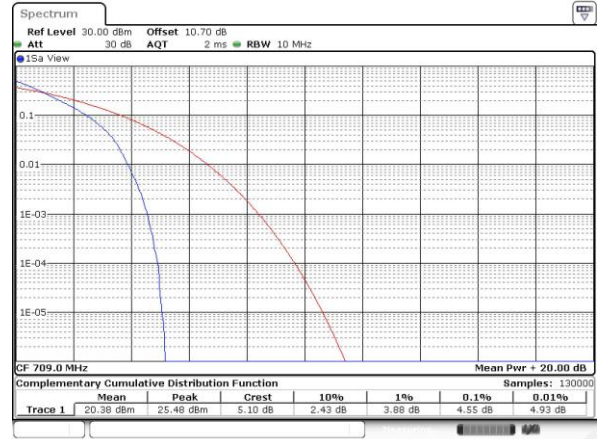


LTE Band 17 / 10MHz / QPSK

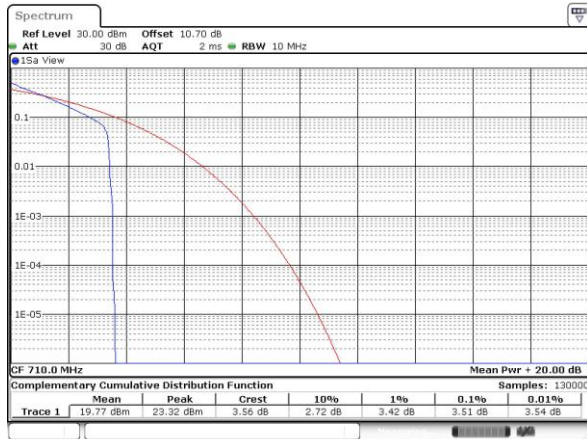
Lowest Channel / 1RB



Lowest Channel / Full RB



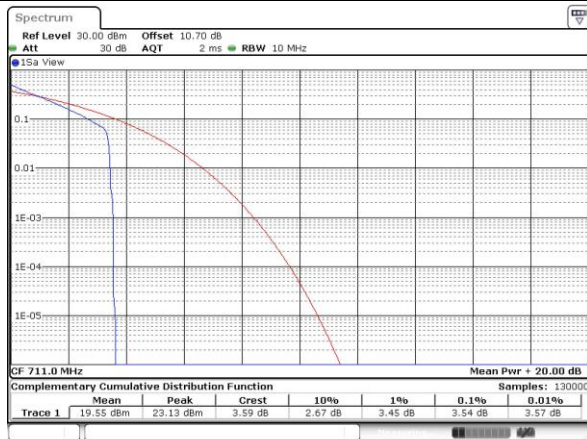
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



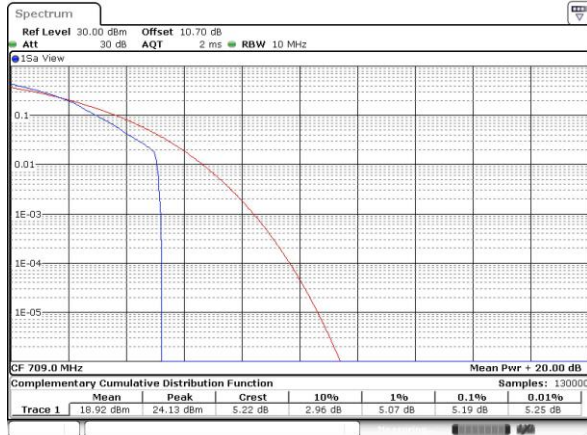
Highest Channel / Full RB





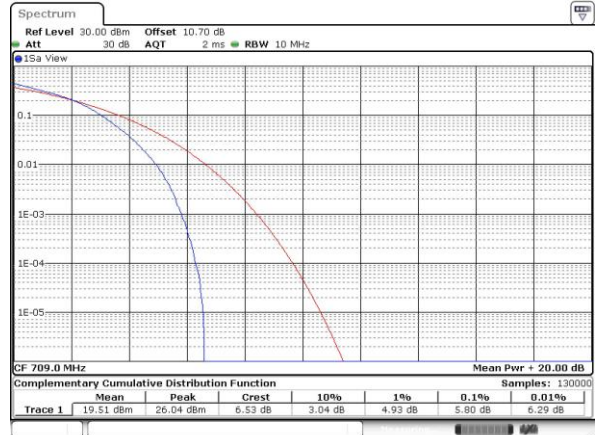
LTE Band 17 / 10MHz / 16QAM

Lowest Channel / 1RB



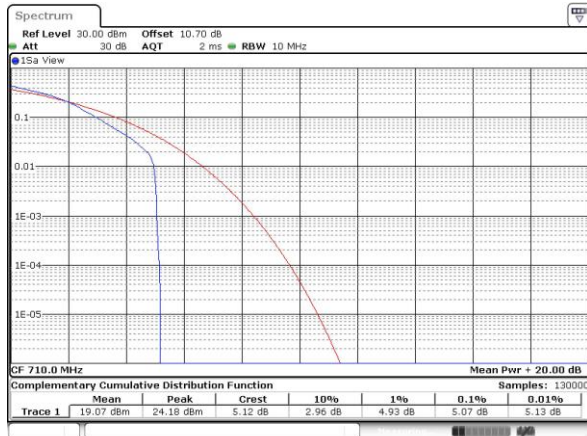
Date: 18 SEP 2018 20:52:50

Lowest Channel / Full RB



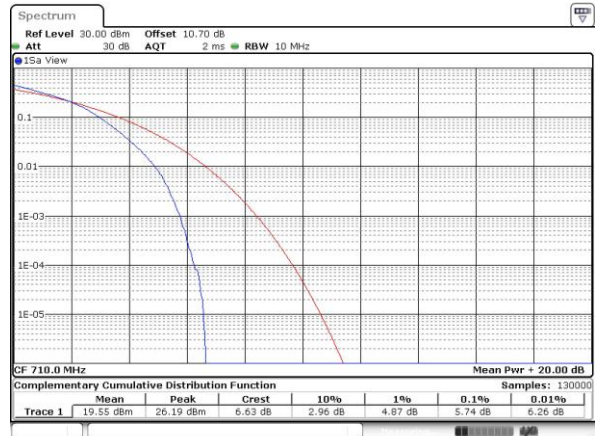
Date: 18 SEP 2018 20:53:02

Middle Channel / 1RB



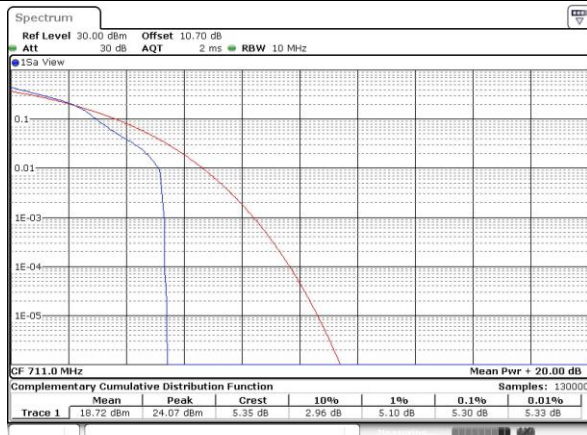
Date: 18 SEP 2018 20:53:14

Middle Channel / Full RB



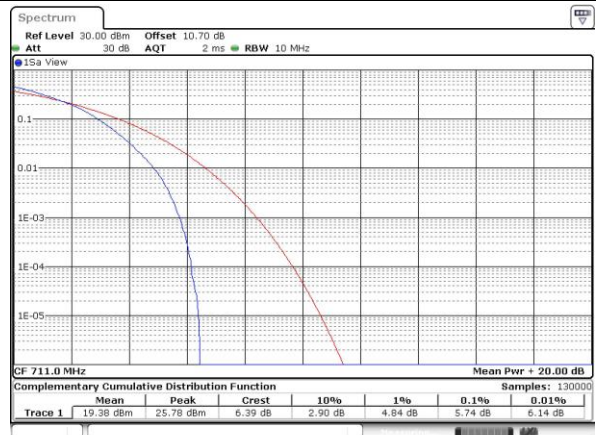
Date: 18 SEP 2018 20:53:28

Highest Channel / 1RB

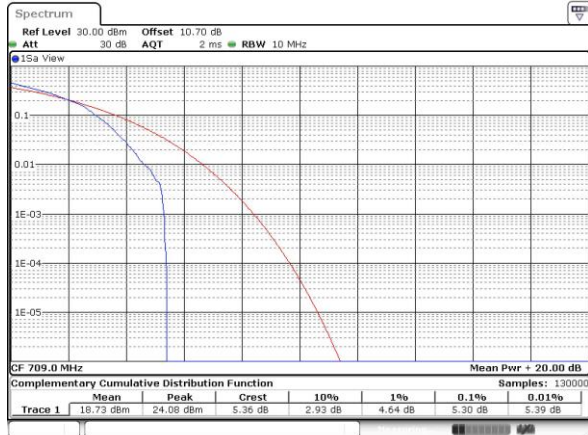


Date: 18 SEP 2018 20:53:41

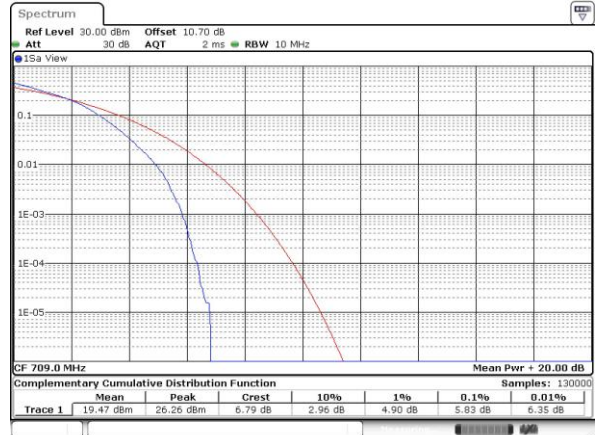
Highest Channel / Full RB



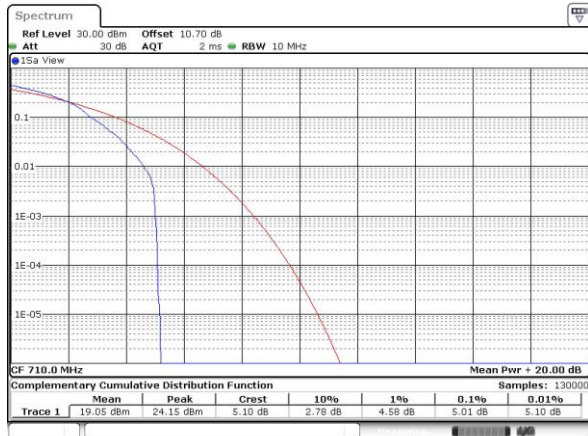
Date: 18 SEP 2018 20:53:58

LTE Band 17 / 10MHz / 64QAM
Lowest Channel / 1RB


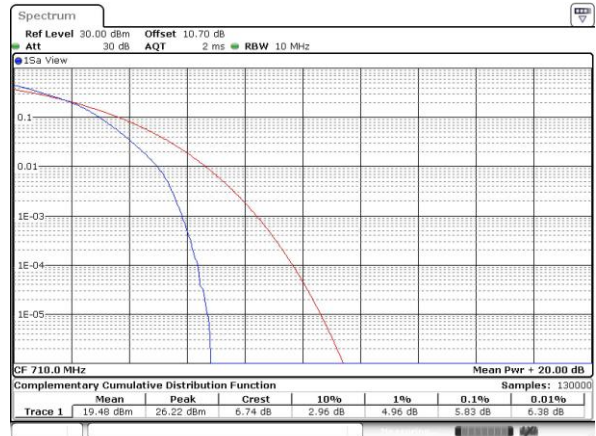
Date: 18 SEP 2018 20:56:12

Lowest Channel / Full RB


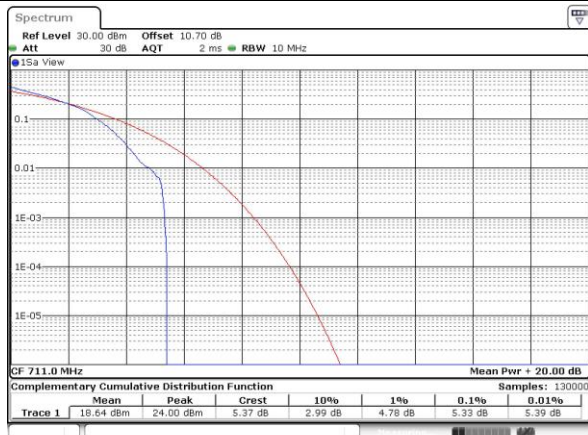
Date: 18 SEP 2018 20:56:23

Middle Channel / 1RB


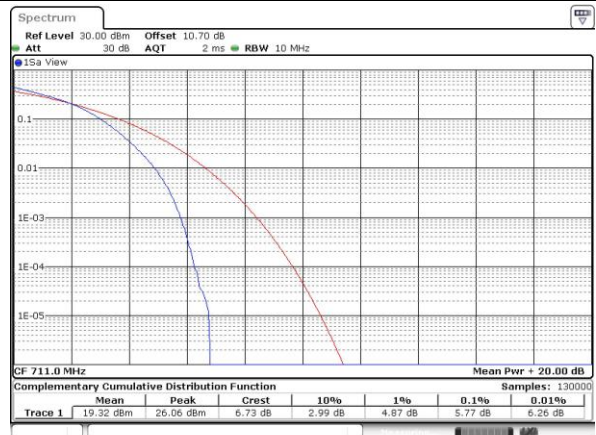
Date: 18 SEP 2018 20:56:35

Middle Channel / Full RB


Date: 18 SEP 2018 20:56:45

Highest Channel / 1RB


Date: 18 SEP 2018 20:56:56

Highest Channel / Full RB


Date: 18 SEP 2018 20:57:06

**26dB Bandwidth**

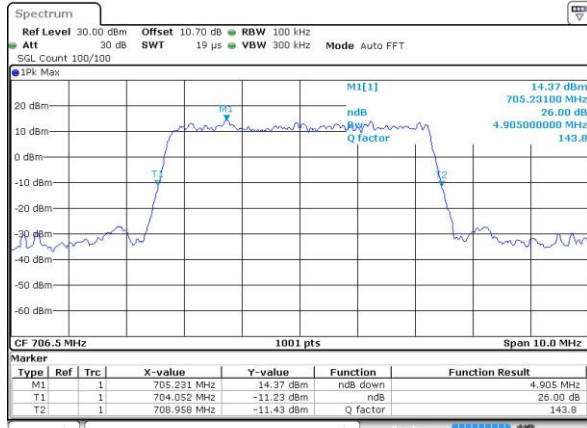
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.91	4.99	9.81	9.87	-	-	-	-
Middle CH	-	-	-	-	4.85	4.85	9.71	9.87	-	-	-	-
Highest CH	-	-	-	-	4.92	4.90	9.71	9.87	-	-	-	-

Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.95	-	9.99	-	-	-	-	-
Middle CH	-	-	-	-	4.96	-	9.79	-	-	-	-	-
Highest CH	-	-	-	-	4.93	-	9.91	-	-	-	-	-



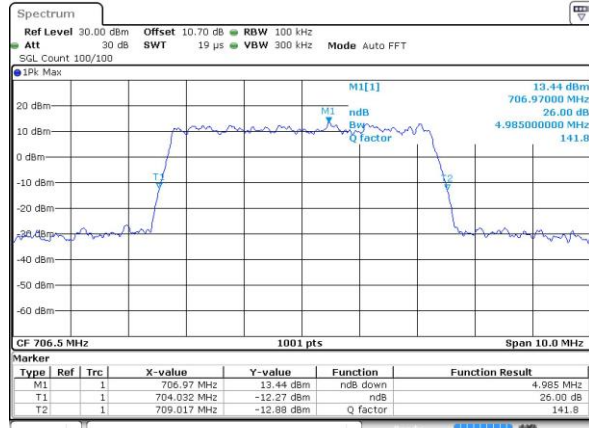
LTE Band 17

Lowest Channel / 5MHz / QPSK



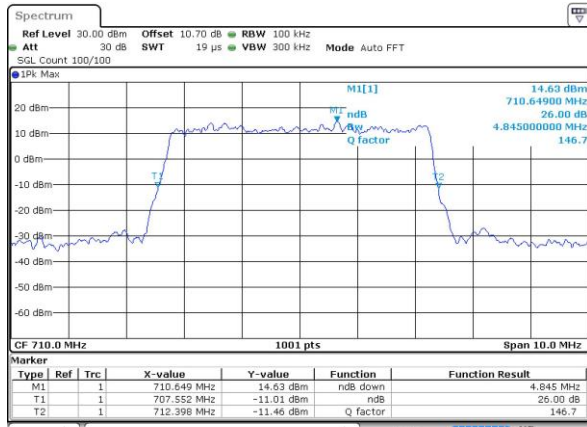
Date: 18 SEP 2018 21:41:11

Lowest Channel / 5MHz / 16QAM



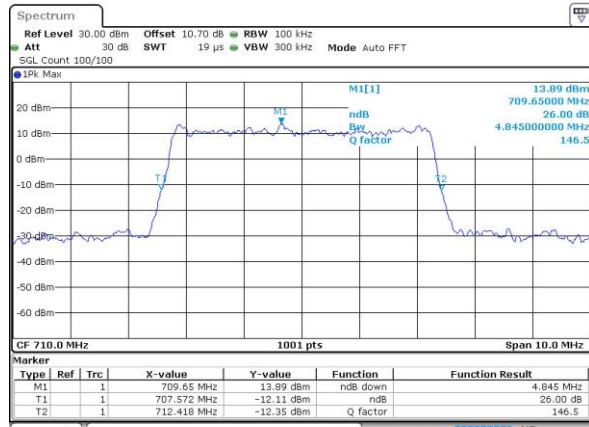
Date: 18 SEP 2018 21:41:23

Middle Channel / 5MHz / QPSK



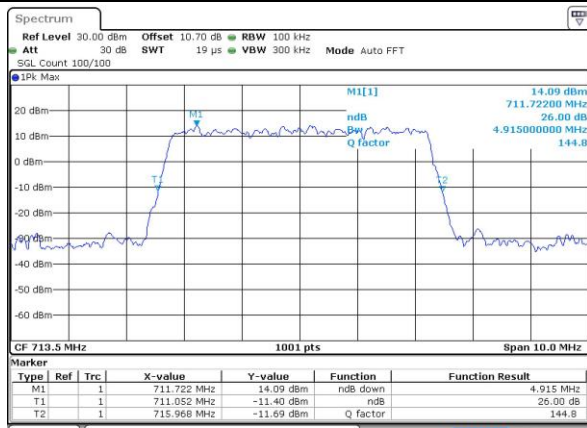
Date: 18 SEP 2018 21:47:19

Middle Channel / 5MHz / 16QAM



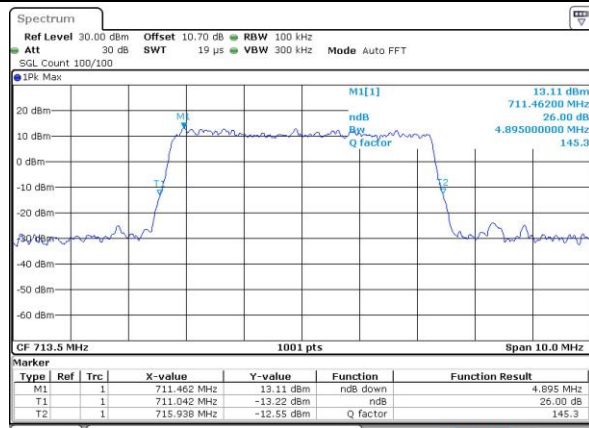
Date: 18 SEP 2018 21:47:31

Highest Channel / 5MHz / QPSK



Date: 18 SEP 2018 21:49:26

Highest Channel / 5MHz / 16QAM

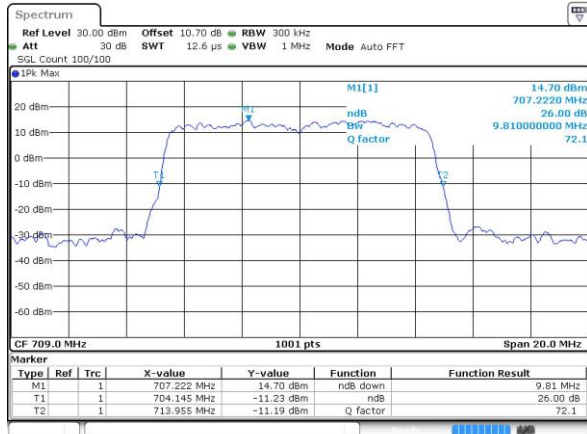


Date: 18 SEP 2018 21:49:38



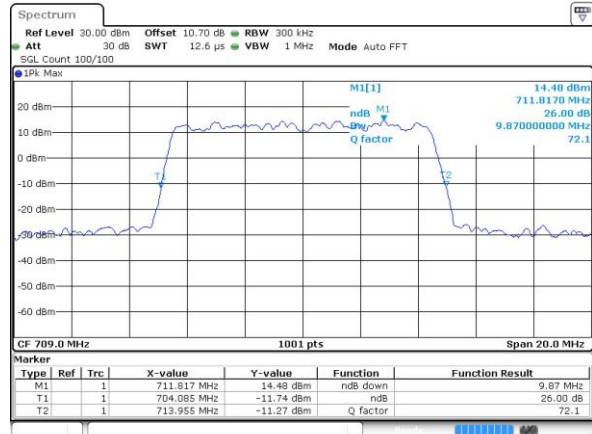
LTE Band 17

Lowest Channel / 10MHz / QPSK



Date: 18 SEP 2018 21:55:34

Lowest Channel / 10MHz / 16QAM



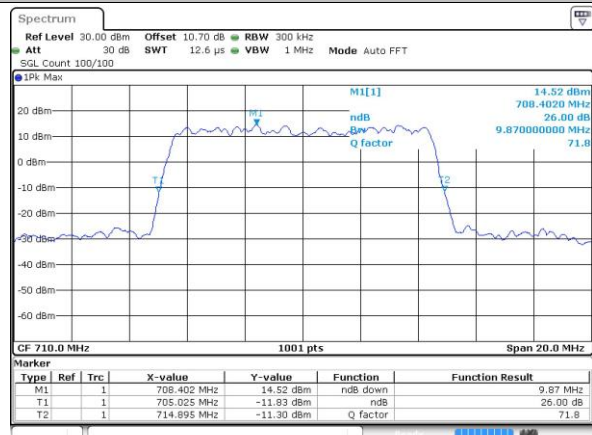
Date: 18 SEP 2018 21:55:46

Middle Channel / 10MHz / QPSK



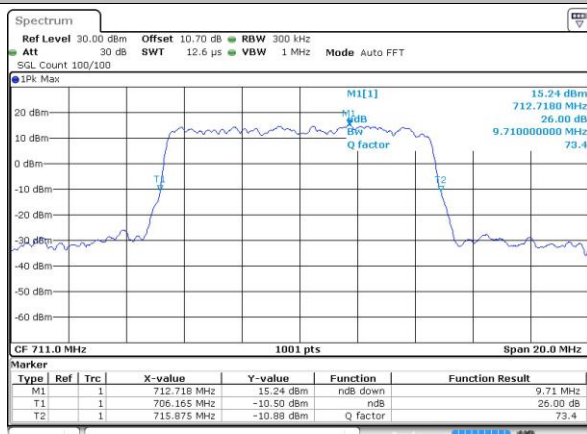
Date: 18 SEP 2018 22:01:42

Middle Channel / 10MHz / 16QAM



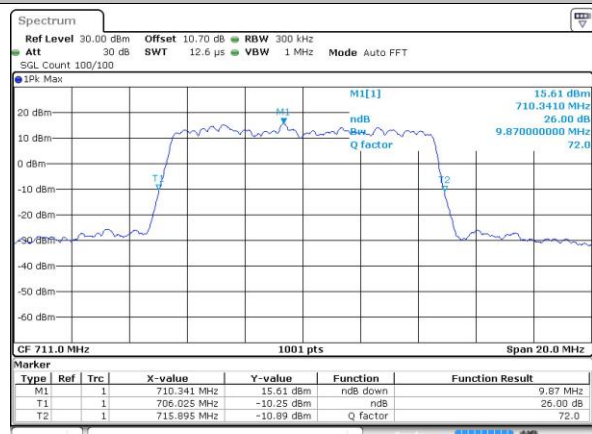
Date: 18 SEP 2018 22:01:54

Highest Channel / 10MHz / QPSK



Date: 18 SEP 2018 22:03:49

Highest Channel / 10MHz / 16QAM

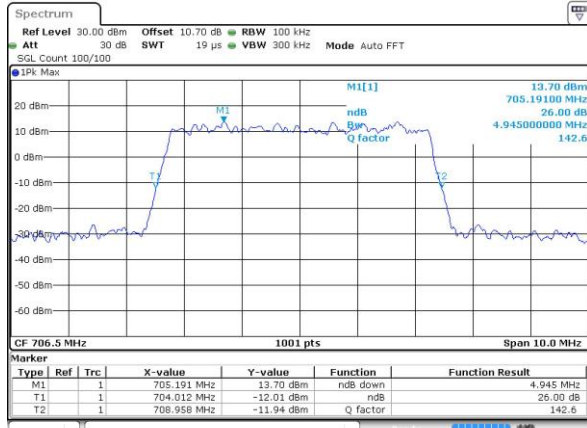


Date: 18 SEP 2018 22:04:01

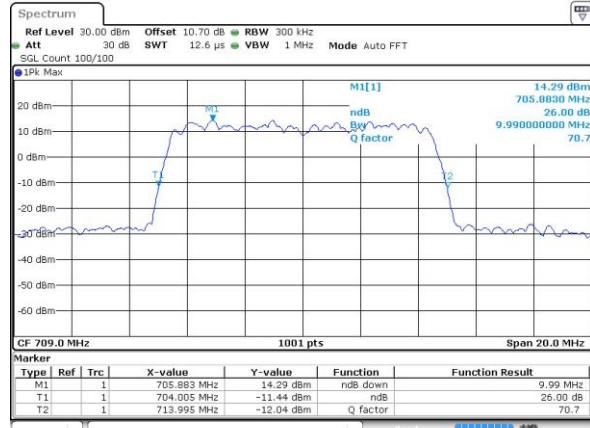


LTE Band 17

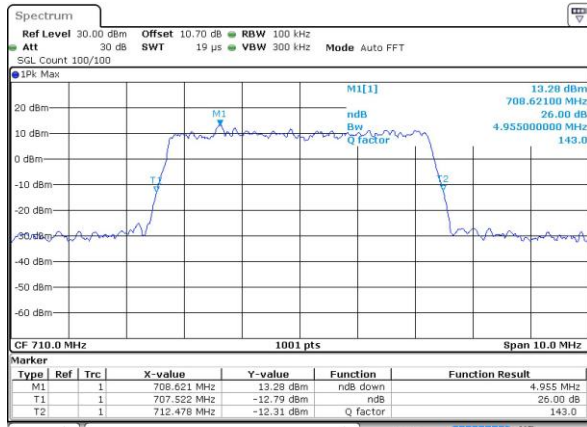
Lowest Channel / 5MHz / 64QAM



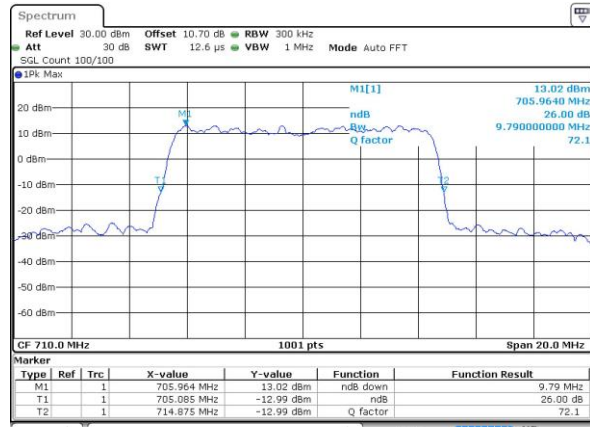
Lowest Channel / 10MHz / 64QAM



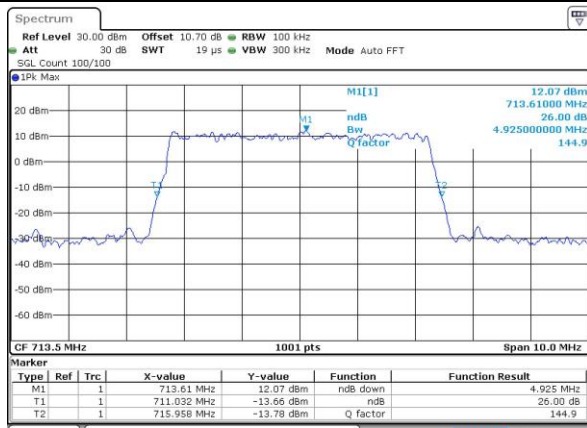
Middle Channel / 5MHz / 64QAM



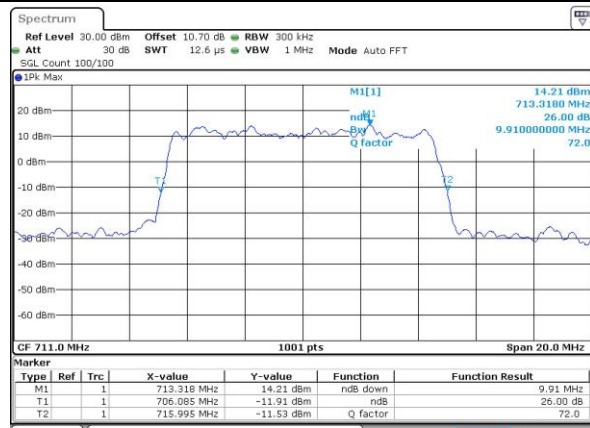
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



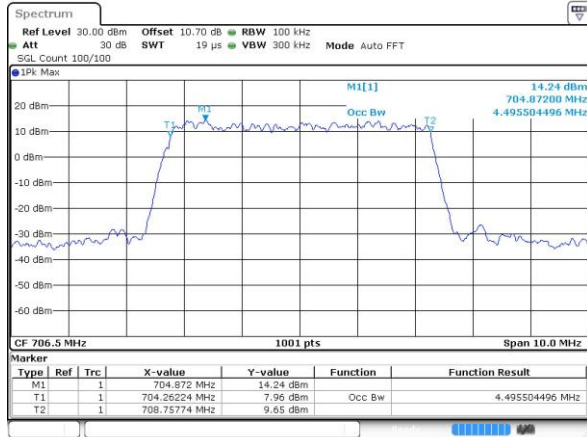
Highest Channel / 10MHz / 64QAM



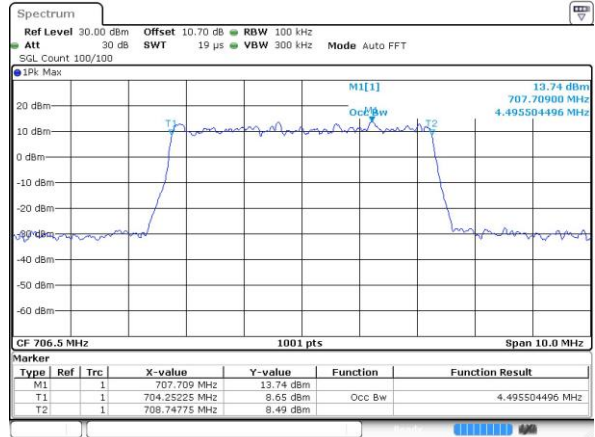
**Occupied Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.5	4.5	9.03	8.99	-	-	-	-
Middle CH	-	-	-	-	4.5	4.49	8.99	9.07	-	-	-	-
Highest CH	-	-	-	-	4.51	4.51	9.03	9.03	-	-	-	-

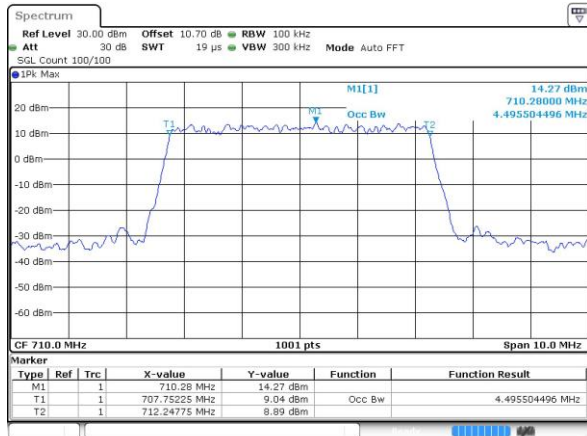
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.48	-	9.03	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.49	-	9.03	-	-	-	-	-

**LTE Band 17****Lowest Channel / 5MHz / QPSK**

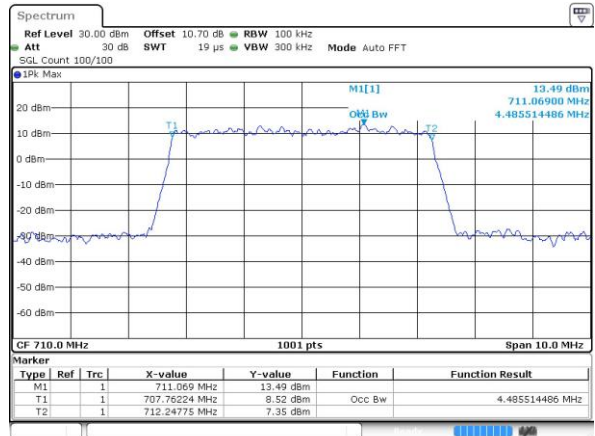
Date: 18 SEP 2018 21:40:48

Lowest Channel / 5MHz / 16QAM

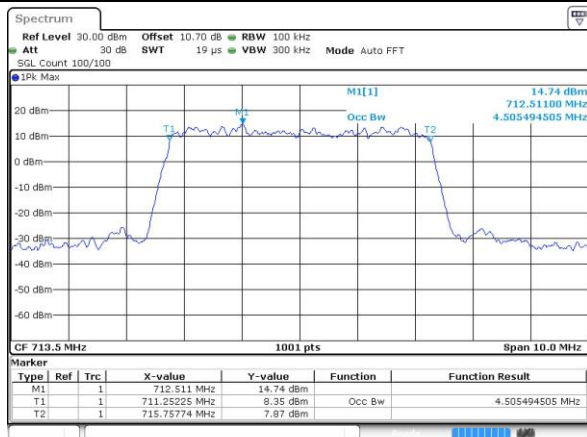
Date: 18 SEP 2018 21:41:00

Middle Channel / 5MHz / QPSK

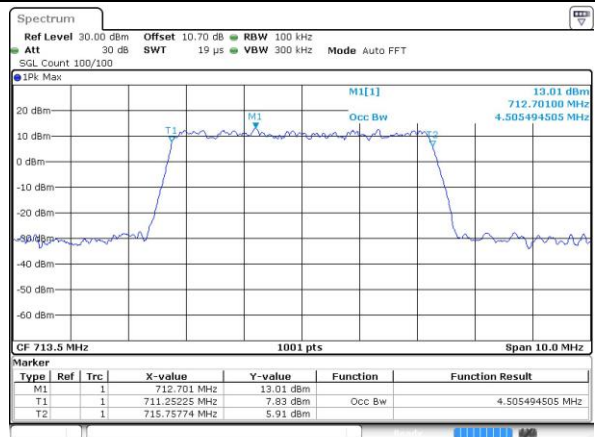
Date: 18 SEP 2018 21:46:56

Middle Channel / 5MHz / 16QAM

Date: 18 SEP 2018 21:47:08

Highest Channel / 5MHz / QPSK

Date: 18 SEP 2018 21:49:03

Highest Channel / 5MHz / 16QAM

Date: 18 SEP 2018 21:49:15