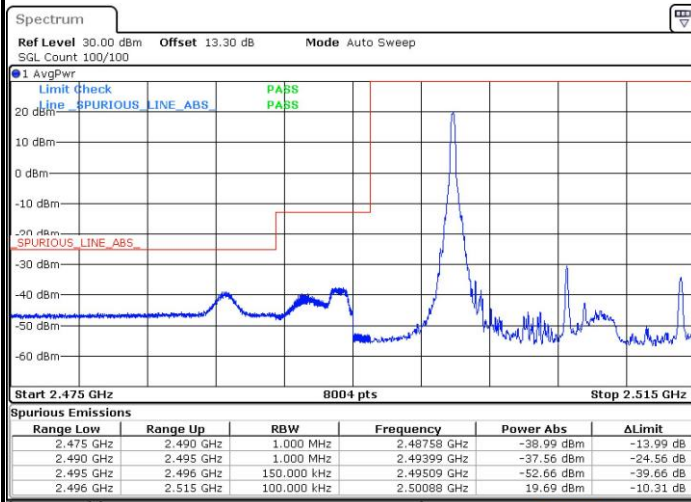




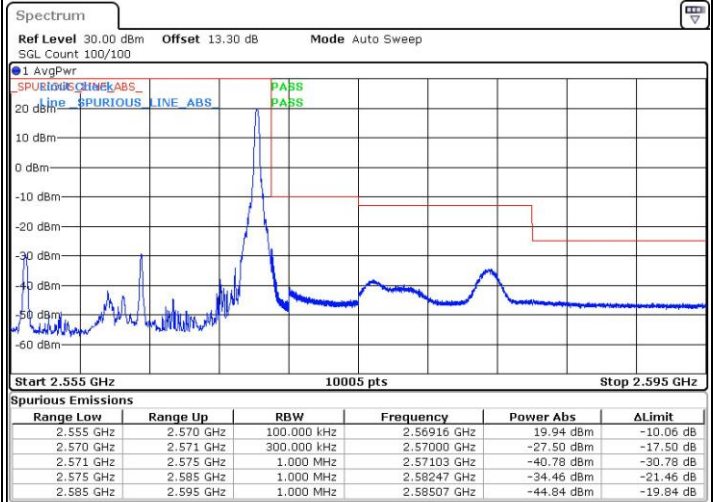
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



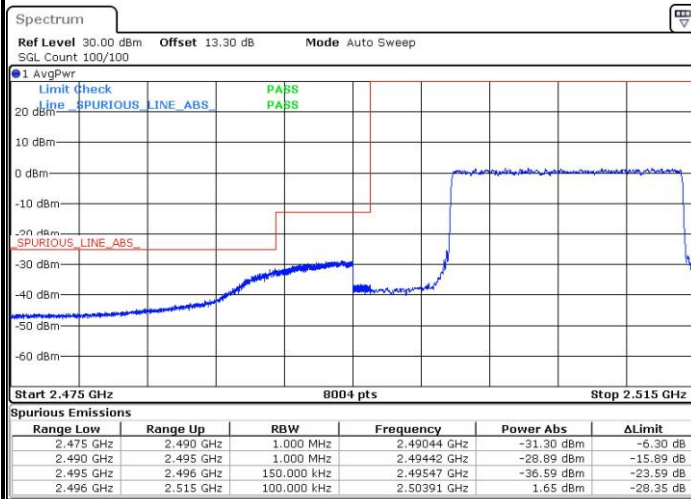
Date: 9 APR 2018 16:18:39

Highest Band Edge / 1 RB



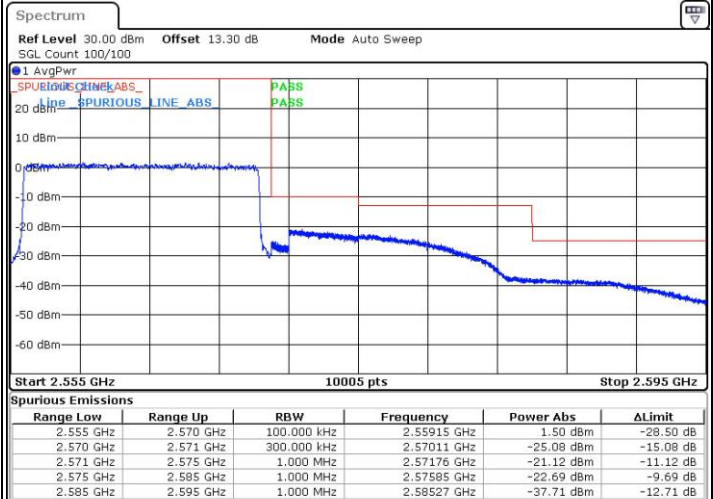
Date: 9 APR 2018 16:28:17

Lowest Band Edge / Full RB



Date: 9 APR 2018 16:20:58

Highest Band Edge / Full RB

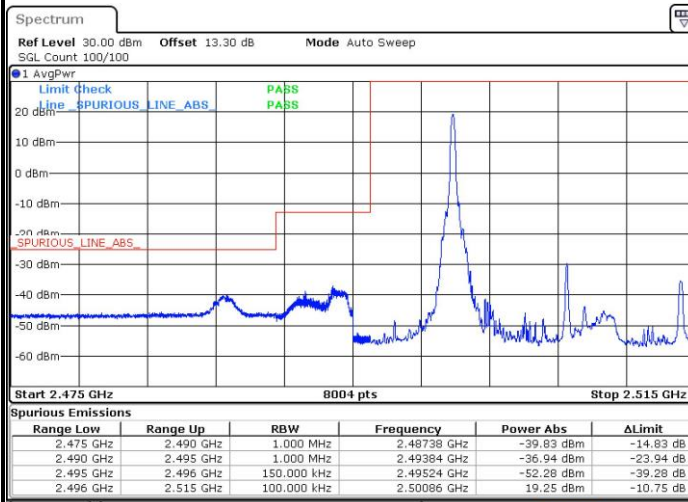


Date: 9 APR 2018 16:30:37

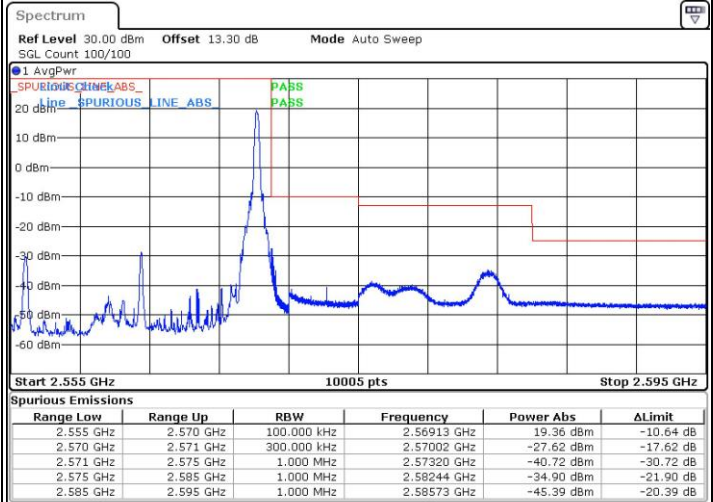


LTE Band 7 / 15MHz / 16QAM

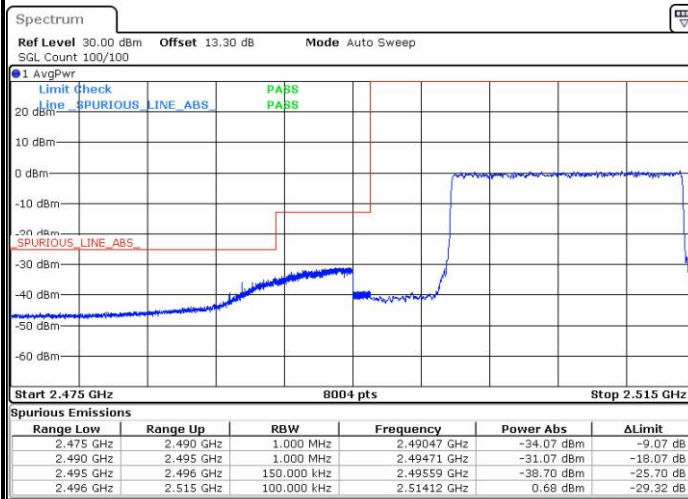
Lowest Band Edge / 1 RB



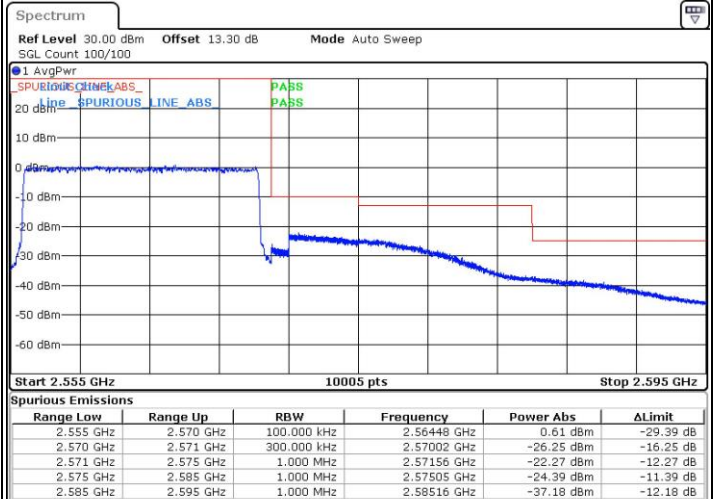
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



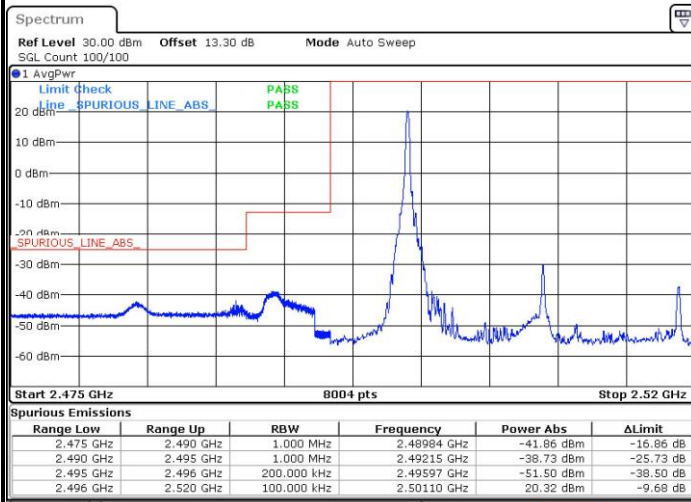
Highest Band Edge / Full RB



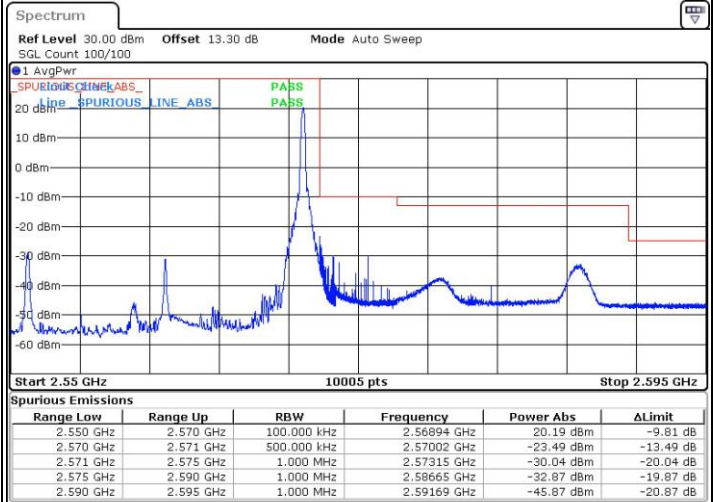


LTE Band 7 / 20MHz / QPSK

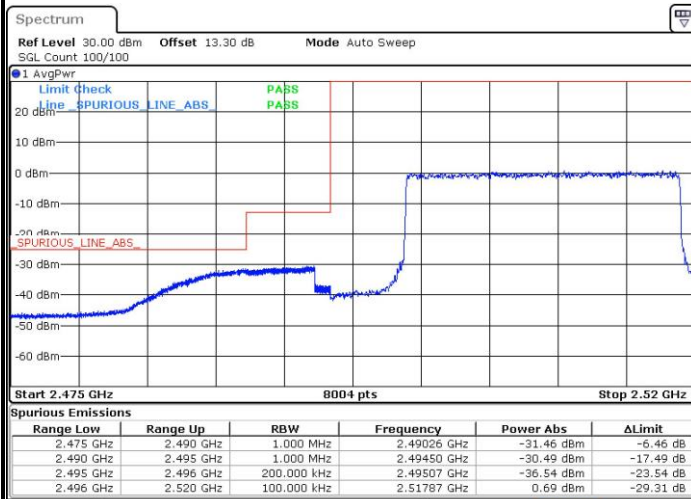
Lowest Band Edge / 1 RB



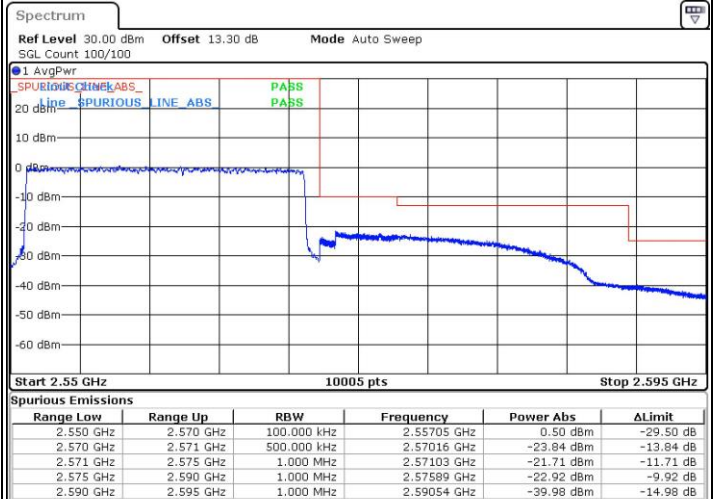
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



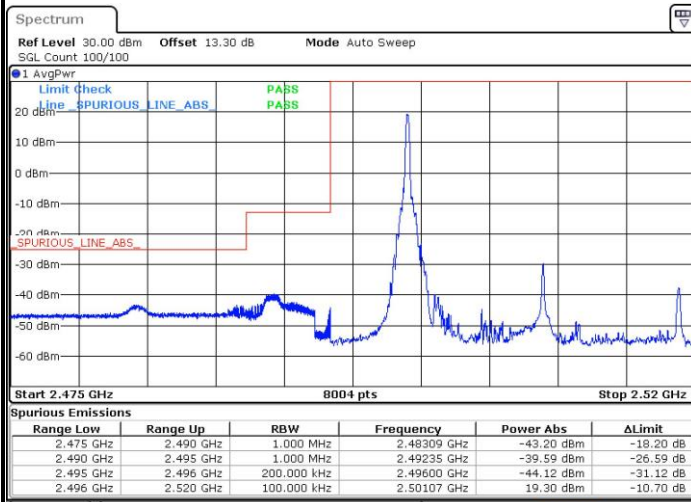
Highest Band Edge / Full RB



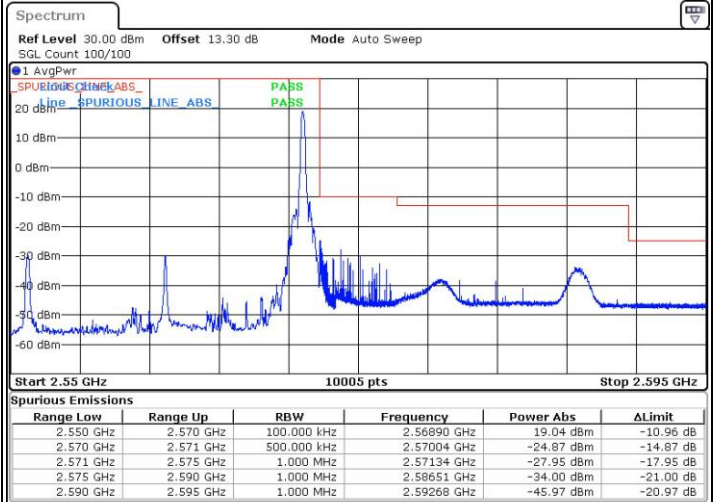


LTE Band 7 / 20MHz / 16QAM

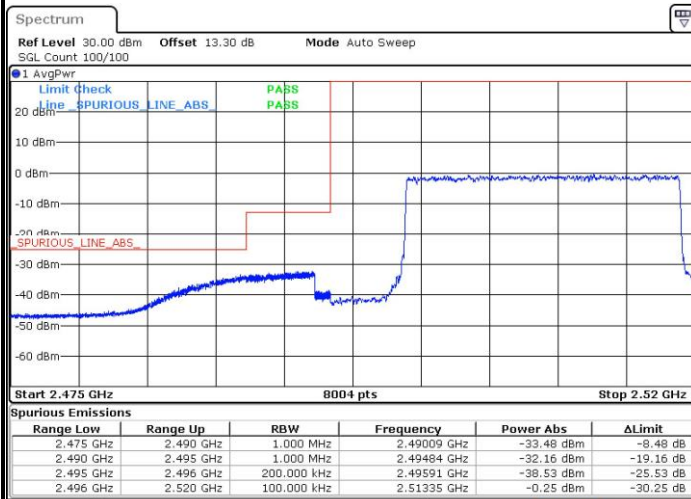
Lowest Band Edge / 1 RB



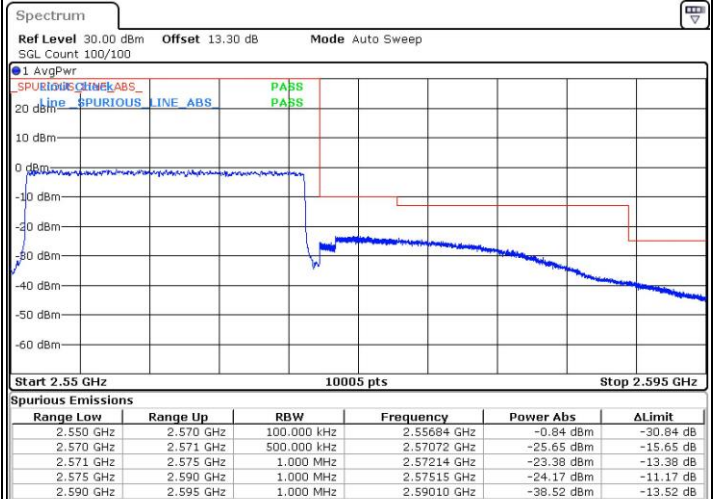
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

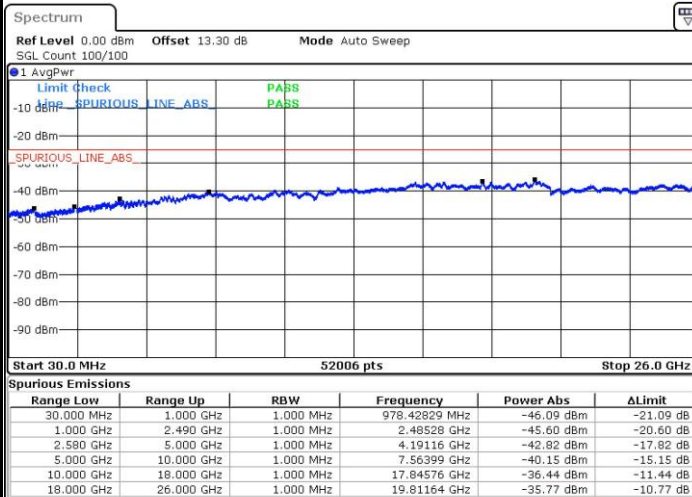




Conducted Spurious Emission

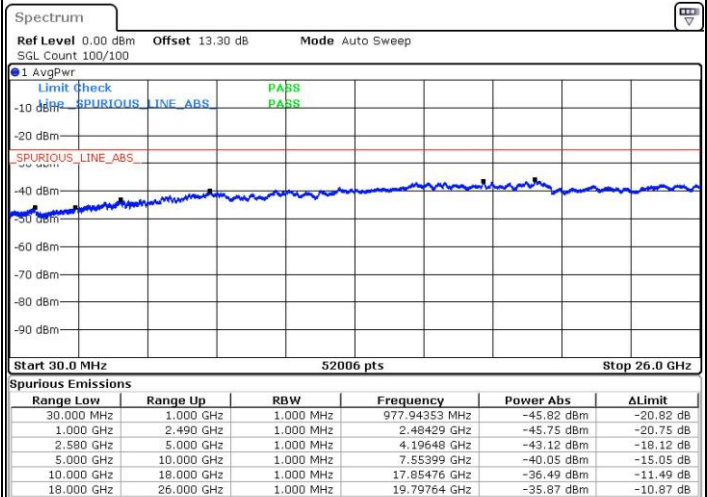
LTE Band 7 / 5MHz

Lowest Channel / QPSK



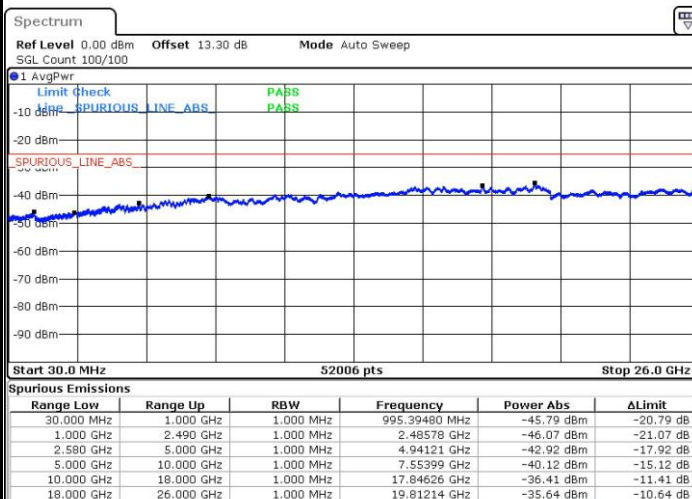
Date: 9 APR 2018 15:49:28

Lowest Channel / 16QAM



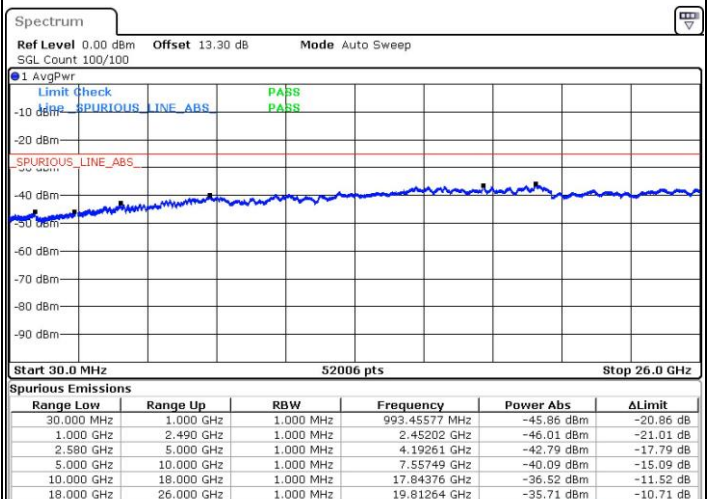
Date: 9 APR 2018 15:50:22

Middle Channel / QPSK



Date: 9 APR 2018 15:51:58

Middle Channel / 16QAM

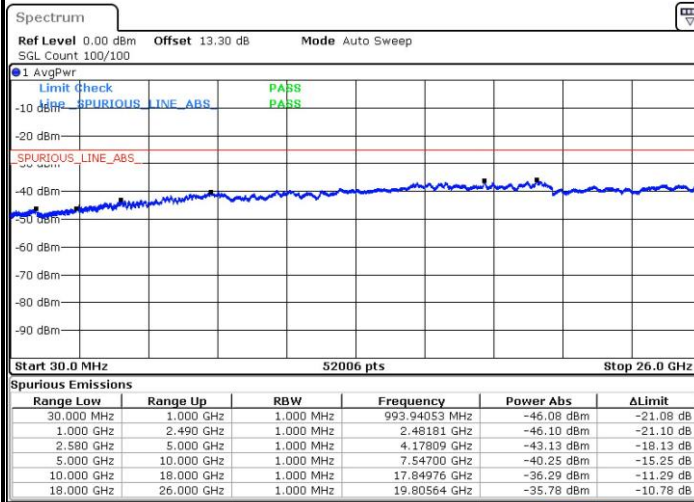


Date: 9 APR 2018 15:52:51



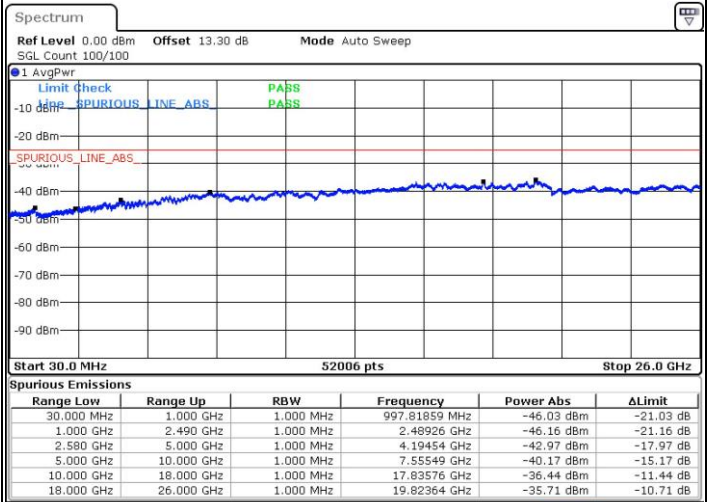
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 9 APR 2018 15:59:07

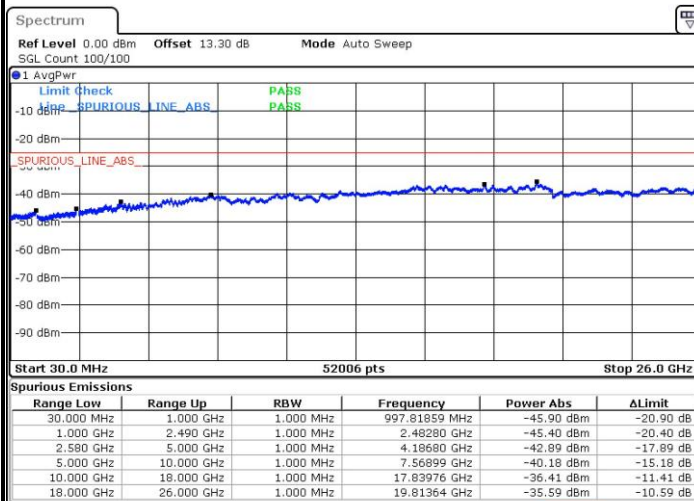
Highest Channel / 16QAM



Date: 9 APR 2018 16:00:01

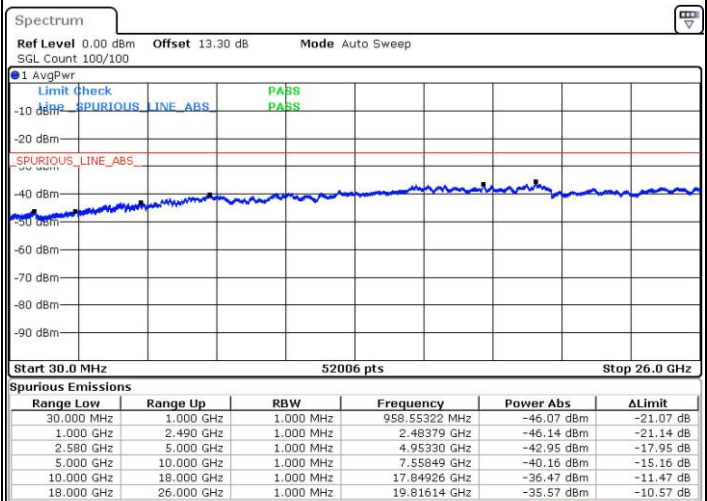
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 9 APR 2018 16:06:16

Lowest Channel / 16QAM

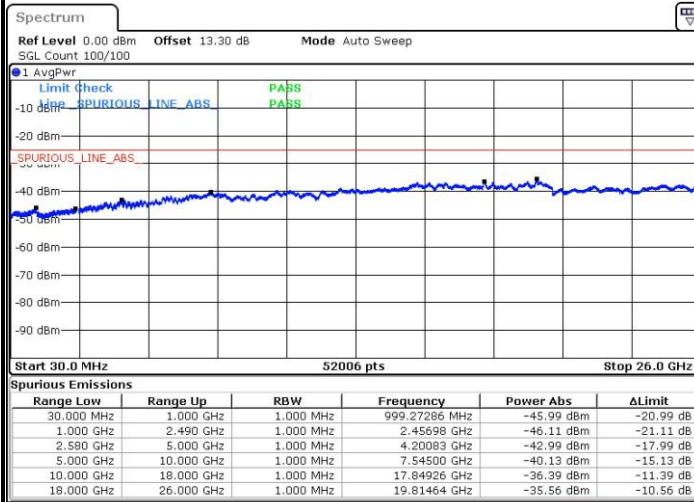


Date: 9 APR 2018 16:07:09



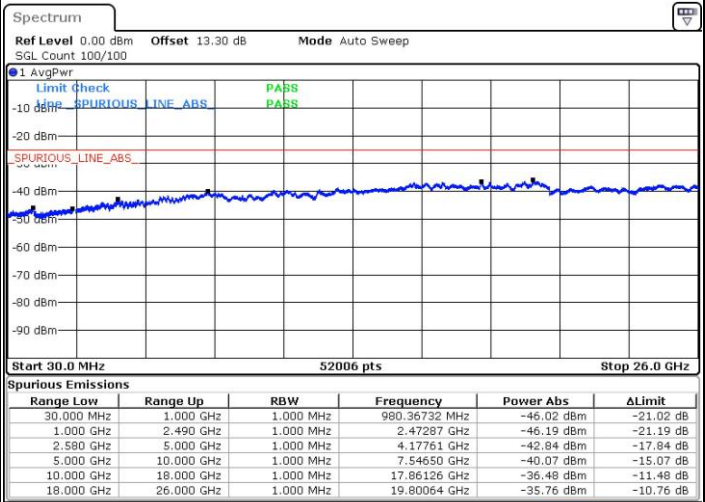
LTE Band 7 / 10MHz

Middle Channel / QPSK



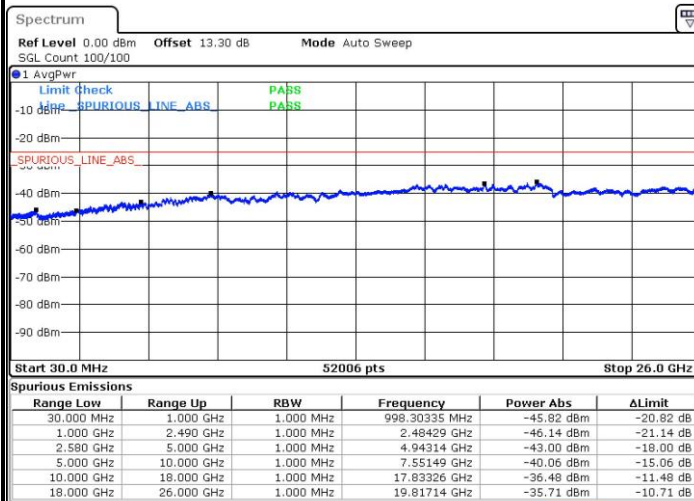
Date: 9 APR 2018 16:08:45

Middle Channel / 16QAM



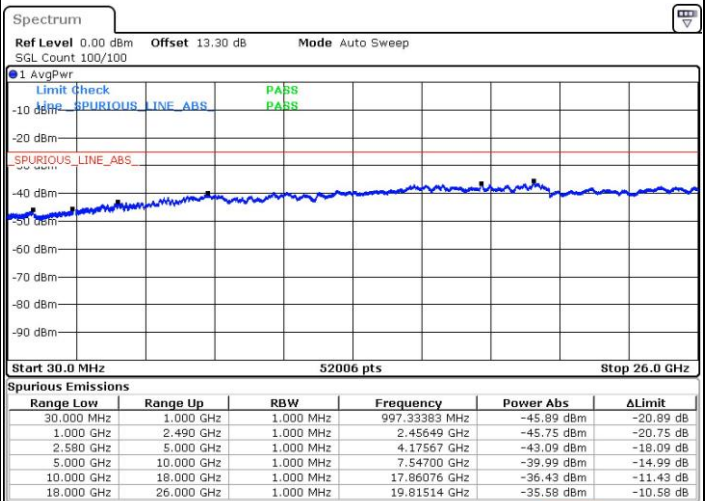
Date: 9 APR 2018 16:09:39

Highest Channel / QPSK



Date: 9 APR 2018 16:15:54

Highest Channel / 16QAM

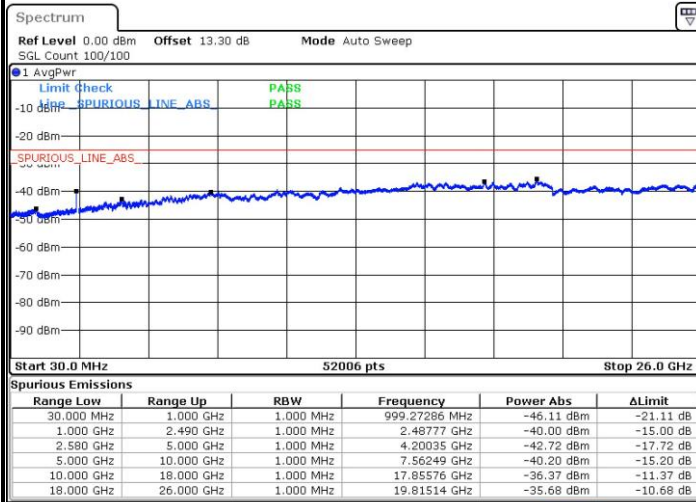


Date: 9 APR 2018 16:16:47



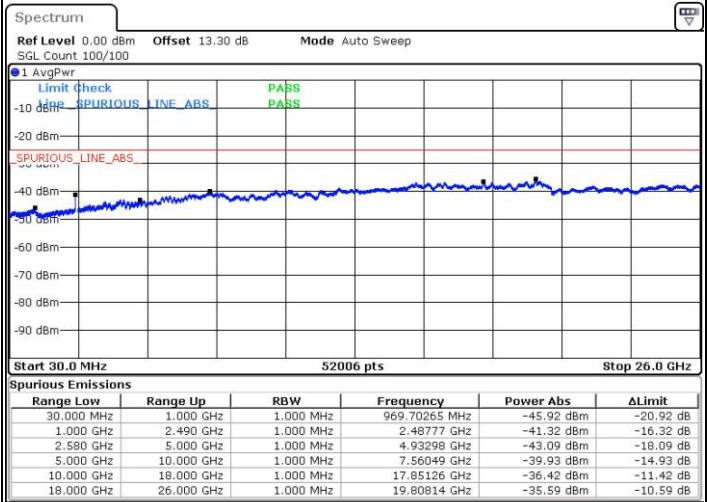
LTE Band 7 / 15MHz

Lowest Channel / QPSK



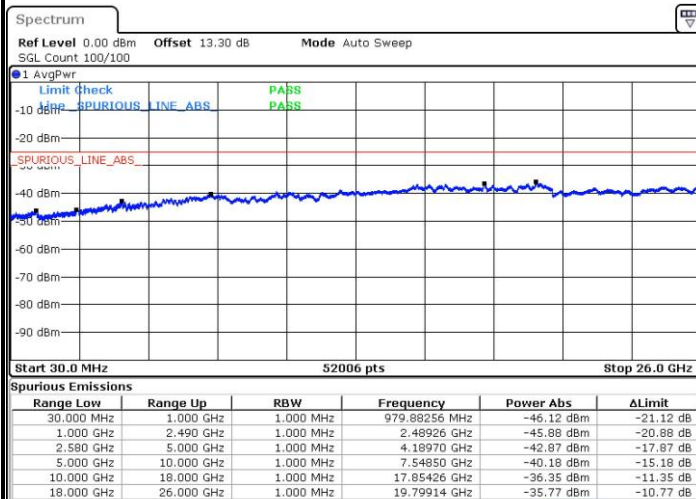
Date: 9 APR 2018 16:23:02

Lowest Channel / 16QAM



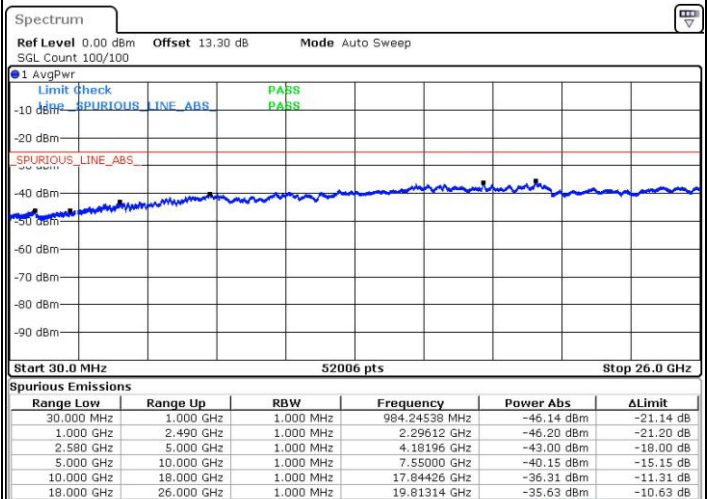
Date: 9 APR 2018 16:23:56

Middle Channel / QPSK



Date: 9 APR 2018 16:25:32

Middle Channel / 16QAM

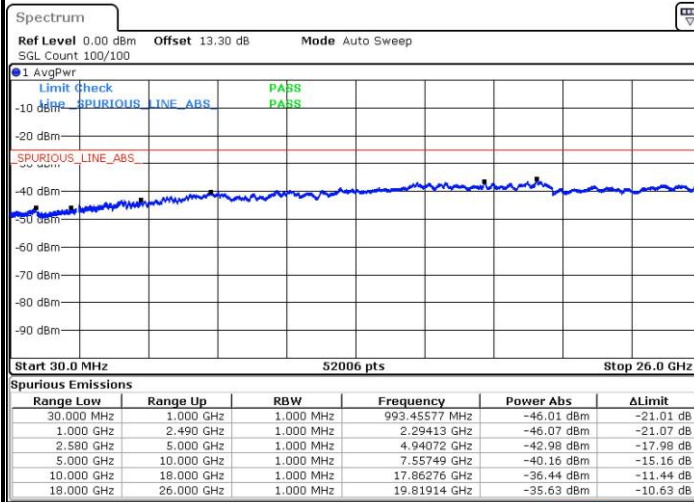


Date: 9 APR 2018 16:26:26



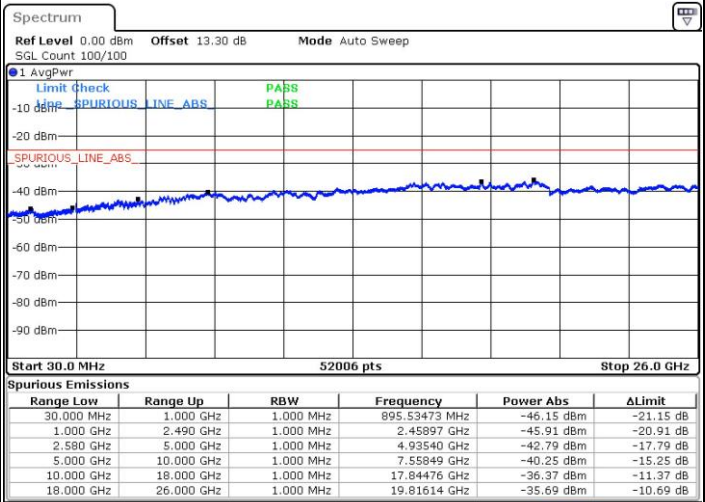
LTE Band 7 / 15MHz

Highest Channel / QPSK



Date: 9 APR 2018 16:32:41

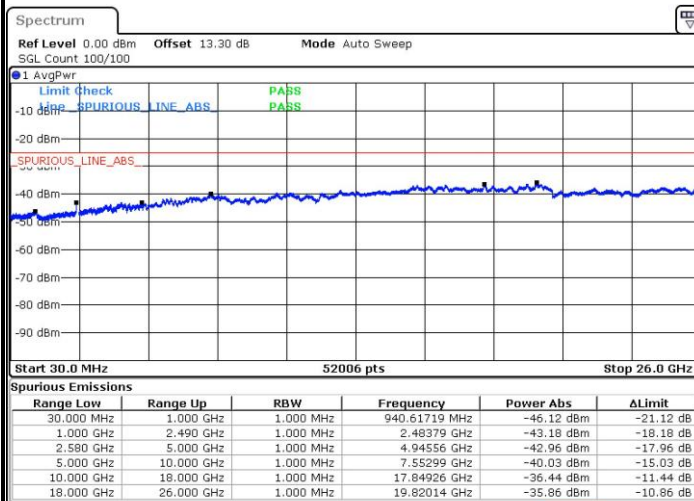
Highest Channel / 16QAM



Date: 9 APR 2018 16:33:35

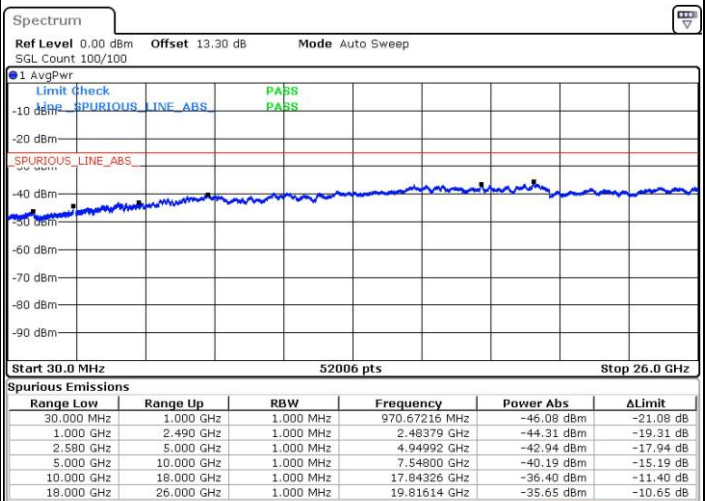
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 9 APR 2018 16:39:50

Lowest Channel / 16QAM

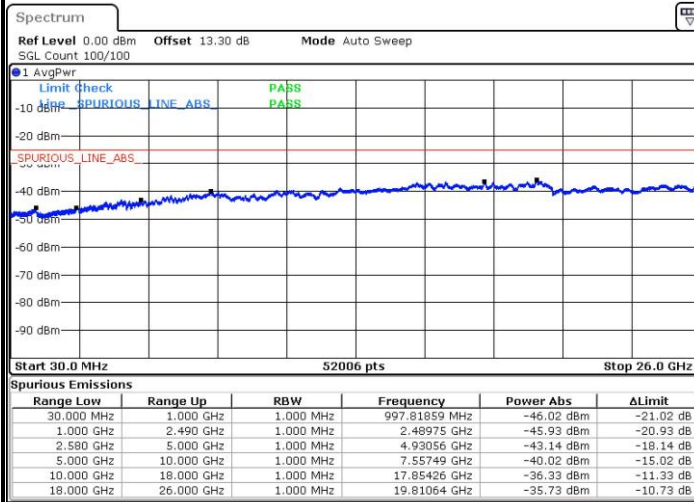


Date: 9 APR 2018 16:40:44



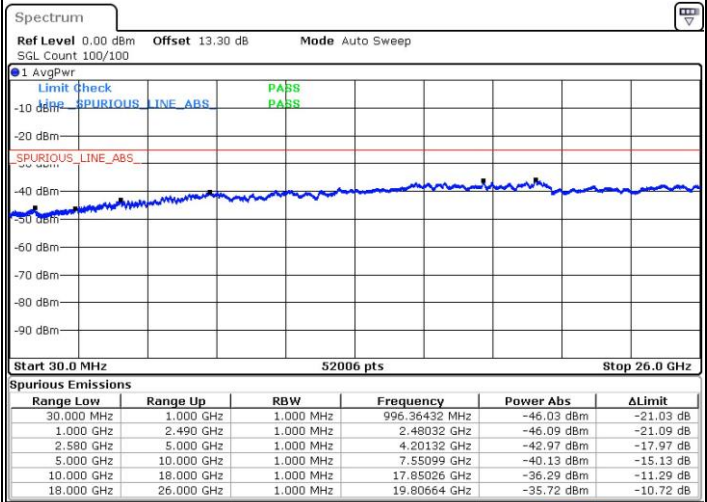
LTE Band 7 / 20MHz

Middle Channel / QPSK



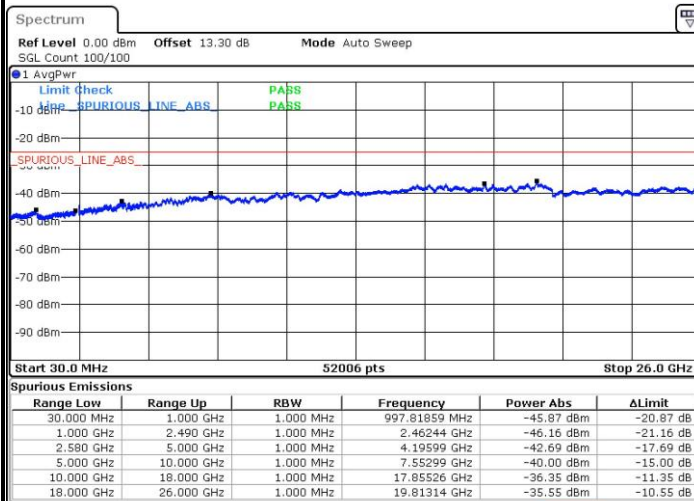
Date: 9 APR 2018 16:42:19

Middle Channel / 16QAM



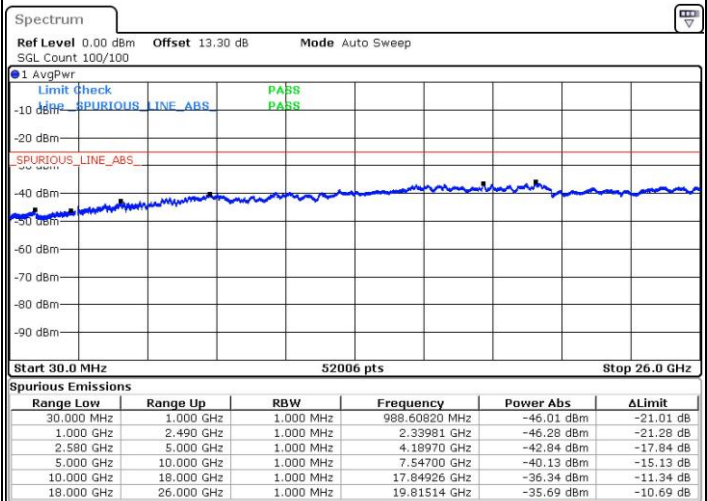
Date: 9 APR 2018 16:43:13

Highest Channel / QPSK



Date: 9 APR 2018 16:49:28

Highest Channel / 16QAM



Date: 9 APR 2018 16:50:22

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	0.0021	PASS
40	Normal Voltage	0.0042	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0043	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0030	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0022	

Note:

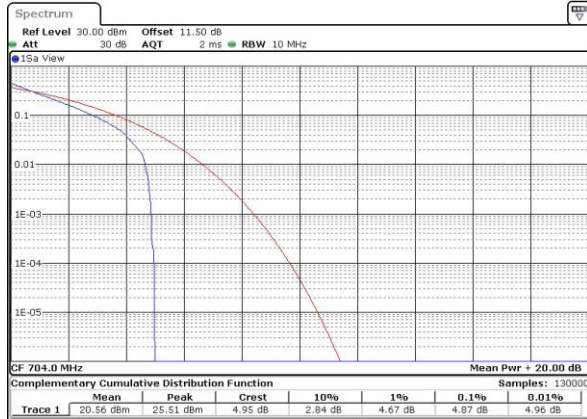
1. Normal Voltage =120 V. ; Battery End Point (BEP) =102 V. ; Maximum Voltage =138 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



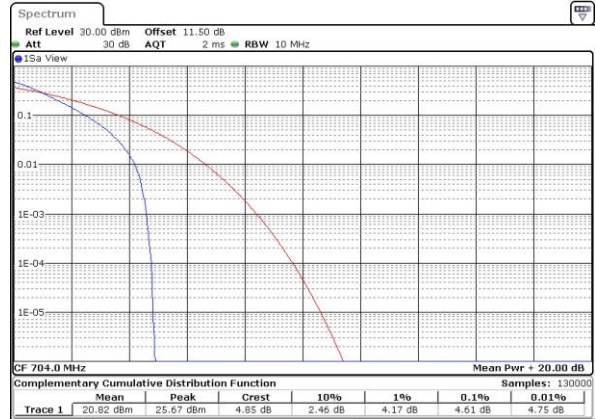
LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.87	4.61	5.83	5.71	PASS
Middle CH	3.71	4.58	4.29	5.65	
Highest CH	4.84	4.58	5.77	5.62	

LTE Band 12 / 10MHz / QPSK
Lowest Channel / 1RB


Date: 5 APR 2018 08:24:30

Lowest Channel / Full RB


Date: 5 APR 2018 08:24:20

Middle Channel / 1RB


Date: 5 APR 2018 08:24:40

Middle Channel / Full RB

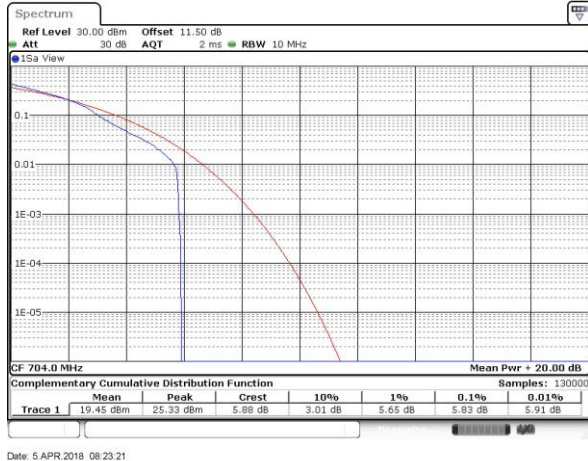

Date: 5 APR 2018 08:24:51

Highest Channel / 1RB

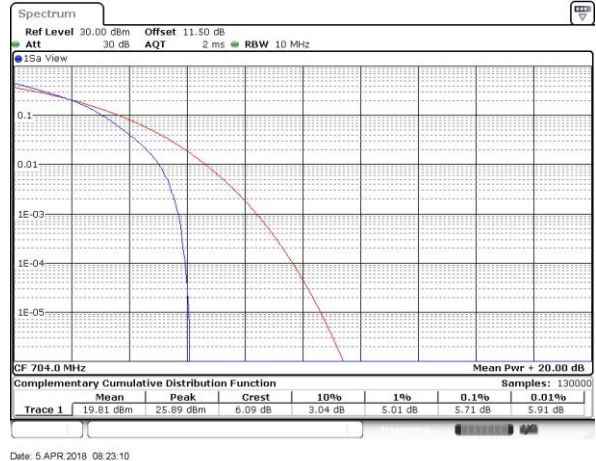

Date: 5 APR 2018 08:25:11

Highest Channel / Full RB

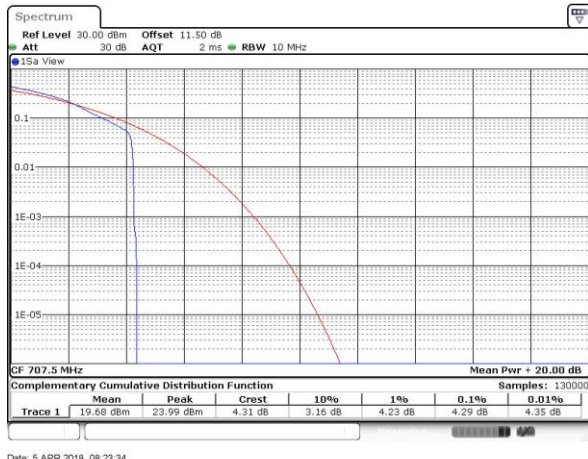

Date: 5 APR 2018 08:25:01

LTE Band 12 / 10MHz / 16QAM
Lowest Channel / 1RB


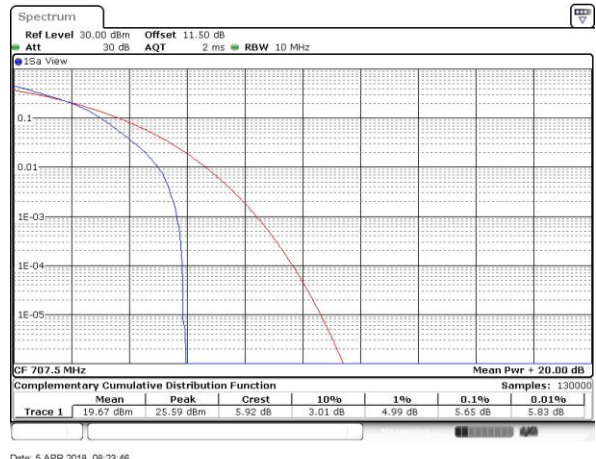
Date: 5 APR 2018 08:23:21

Lowest Channel / Full RB


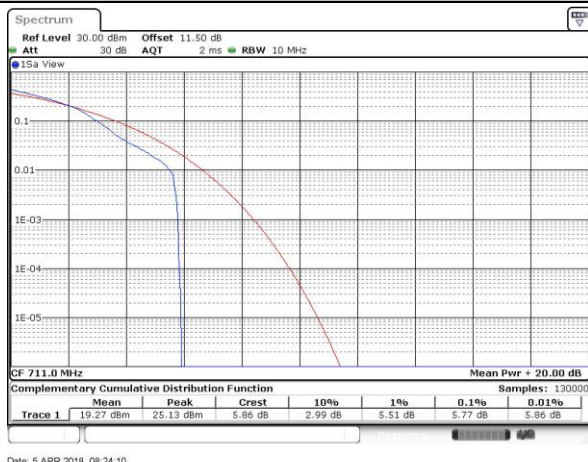
Date: 5 APR 2018 08:23:10

Middle Channel / 1RB


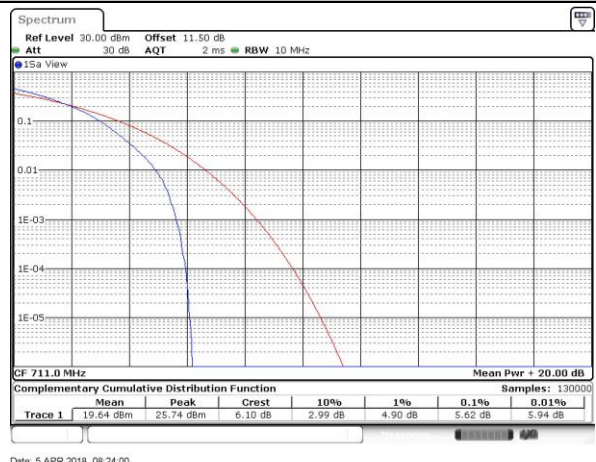
Date: 5 APR 2018 08:23:34

Middle Channel / Full RB


Date: 5 APR 2018 08:23:46

Highest Channel / 1RB


Date: 5 APR 2018 08:24:10

Highest Channel / Full RB


Date: 5 APR 2018 08:24:00



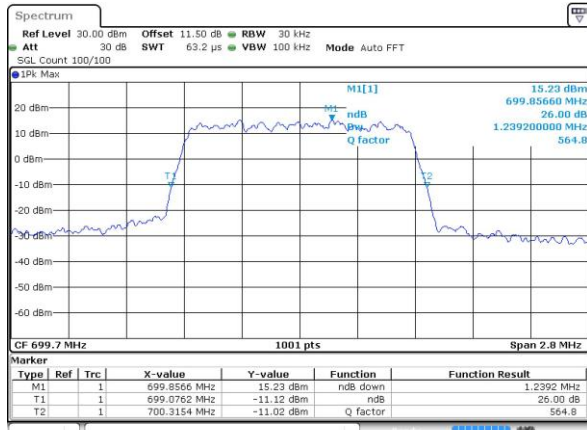
26dB Bandwidth

Mode	LTE Band 12 : 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	1.24	1.23	2.99	3.03	4.92	5.00	9.75	9.65	-	-	-	-
Middle CH	1.24	1.22	3.05	3.04	4.93	4.91	9.65	9.63	-	-	-	-
Highest CH	1.22	1.23	3.06	3.04	4.93	4.81	9.67	9.91	-	-	-	-



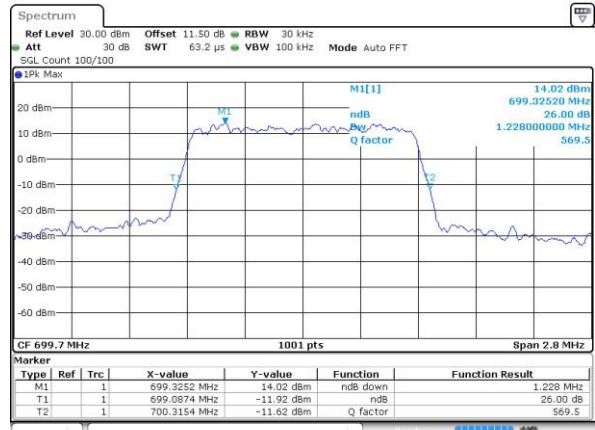
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



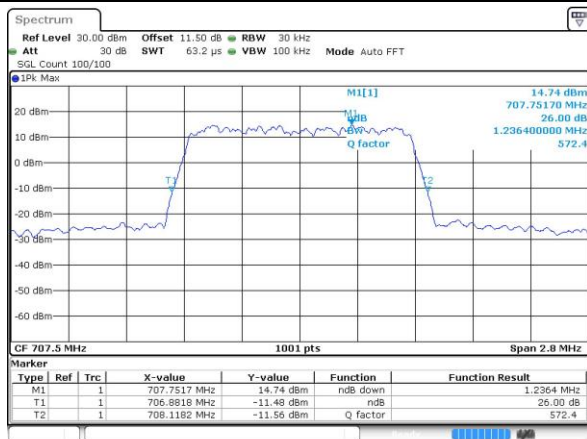
Date: 5 APR 2018 08:06:53

Lowest Channel / 1.4MHz / 16QAM



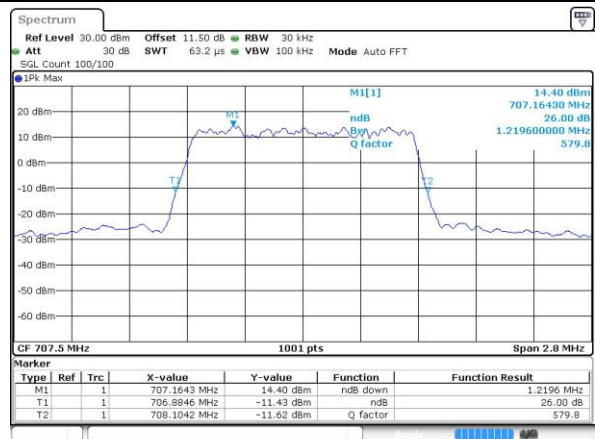
Date: 5 APR 2018 08:06:43

Middle Channel / 1.4MHz / QPSK



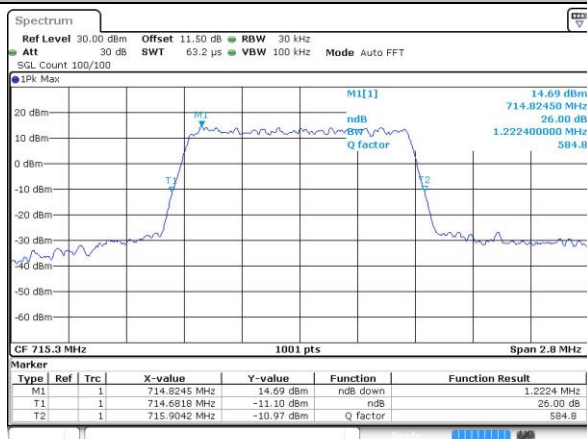
Date: 5 APR 2018 08:13:50

Middle Channel / 1.4MHz / 16QAM



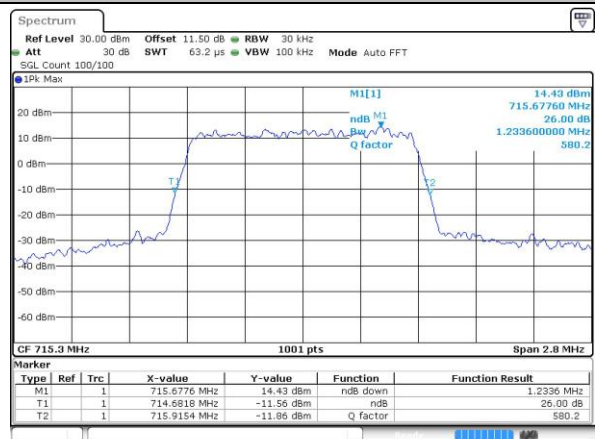
Date: 5 APR 2018 08:14:01

Highest Channel / 1.4MHz / QPSK



Date: 5 APR 2018 08:16:31

Highest Channel / 1.4MHz / 16QAM

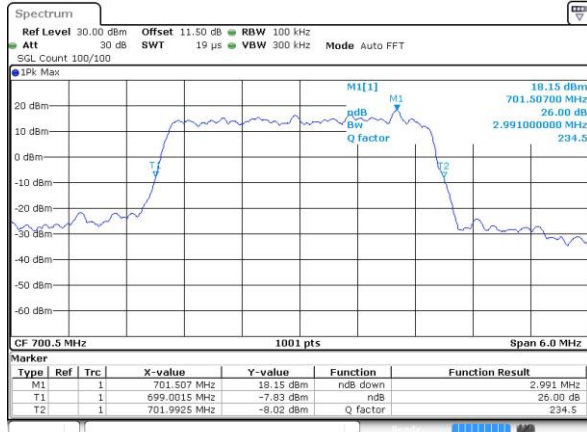


Date: 5 APR 2018 08:16:20



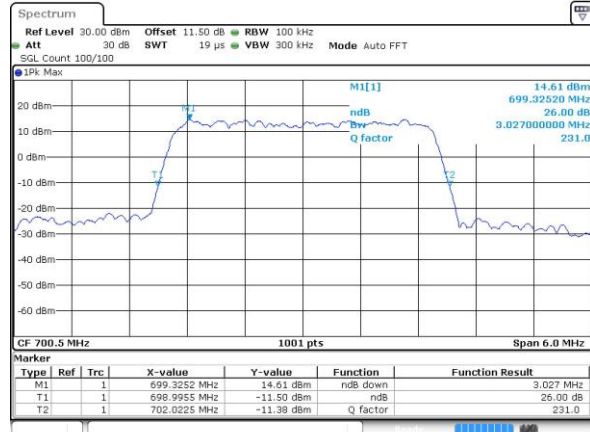
LTE Band 12

Lowest Channel / 3MHz / QPSK



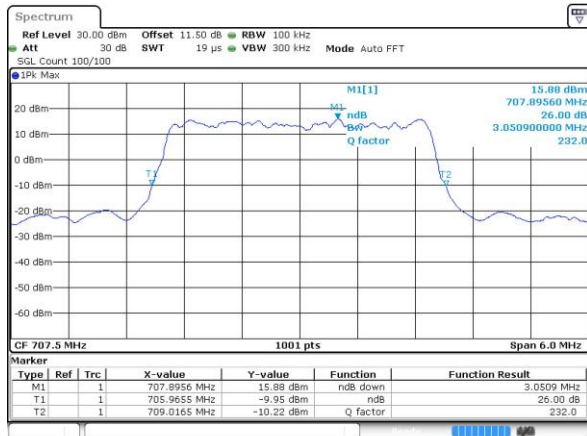
Date: 5 APR 2018 07:16:41

Lowest Channel / 3MHz / 16QAM



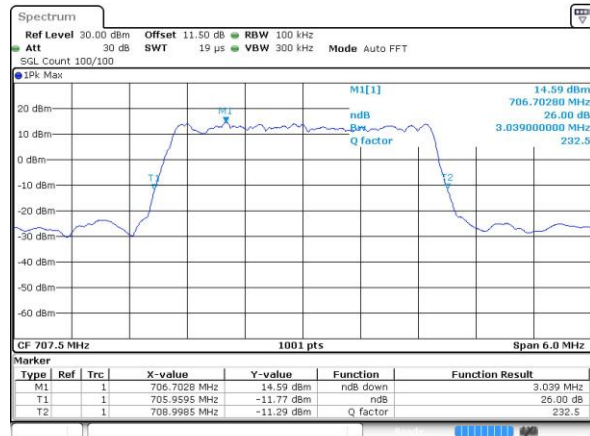
Date: 5 APR 2018 07:16:31

Middle Channel / 3MHz / QPSK



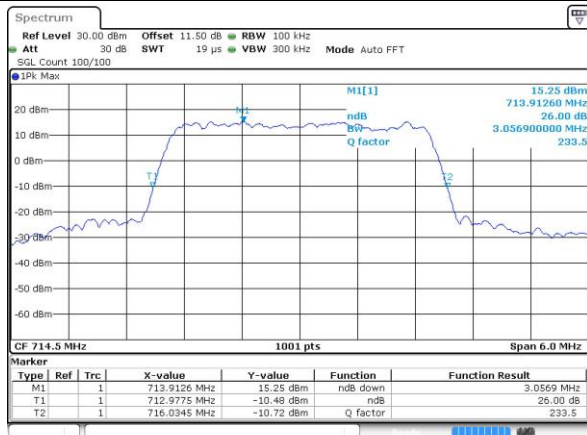
Date: 5 APR 2018 07:23:38

Middle Channel / 3MHz / 16QAM



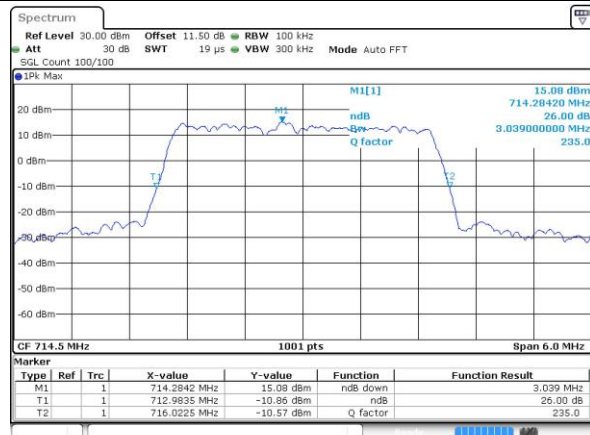
Date: 5 APR 2018 07:23:46

Highest Channel / 3MHz / QPSK



Date: 5 APR 2018 07:26:18

Highest Channel / 3MHz / 16QAM

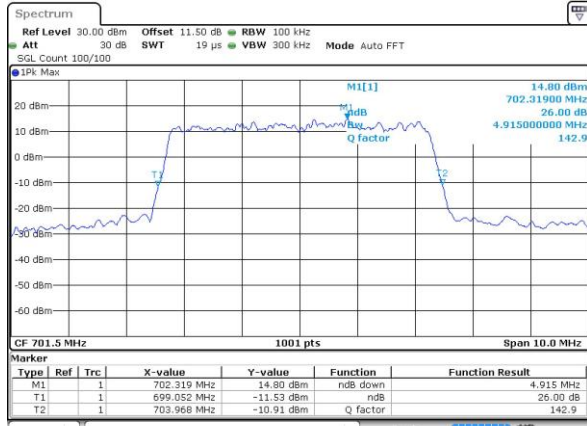


Date: 5 APR 2018 07:26:08

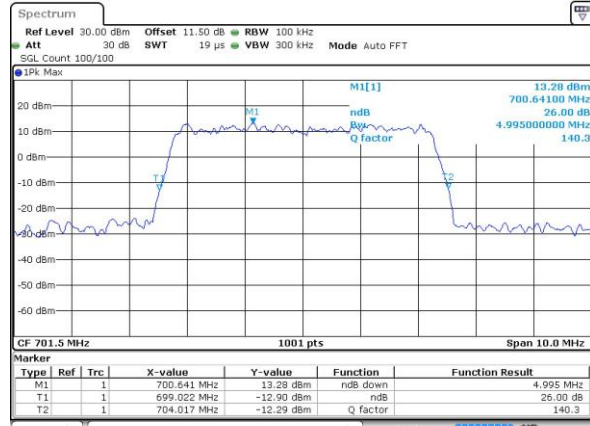


LTE Band 12

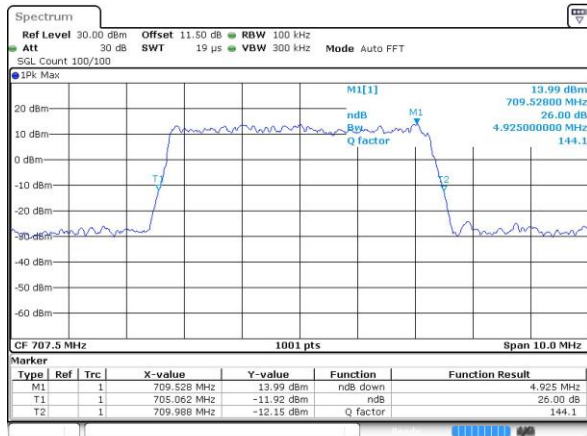
Lowest Channel / 5MHz / QPSK



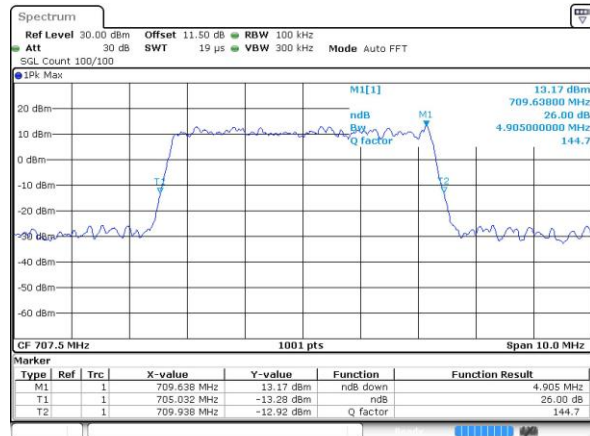
Lowest Channel / 5MHz / 16QAM



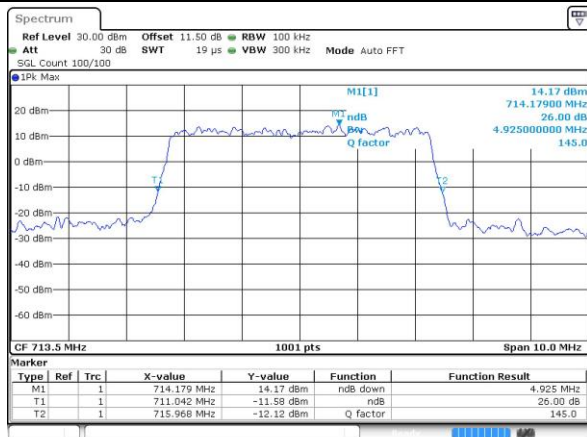
Middle Channel / 5MHz / QPSK



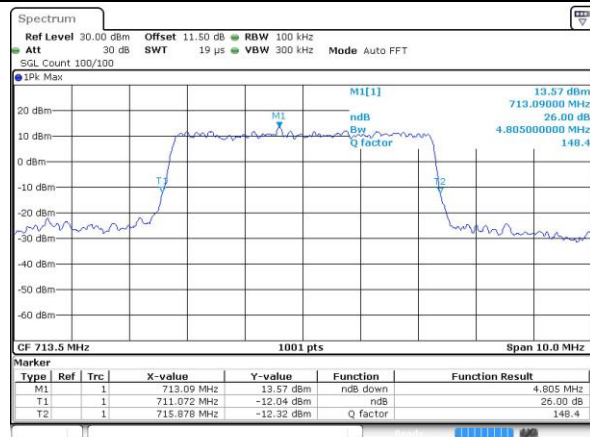
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



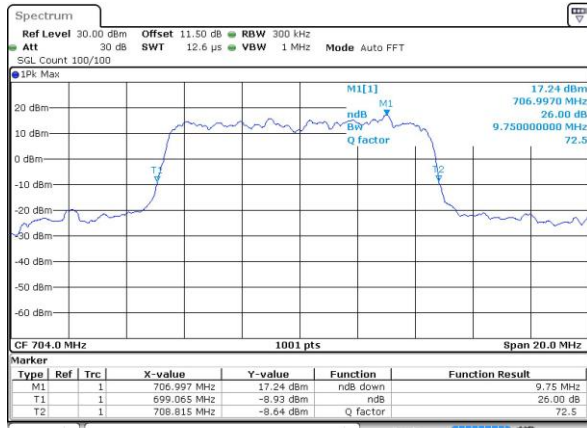
Highest Channel / 5MHz / 16QAM



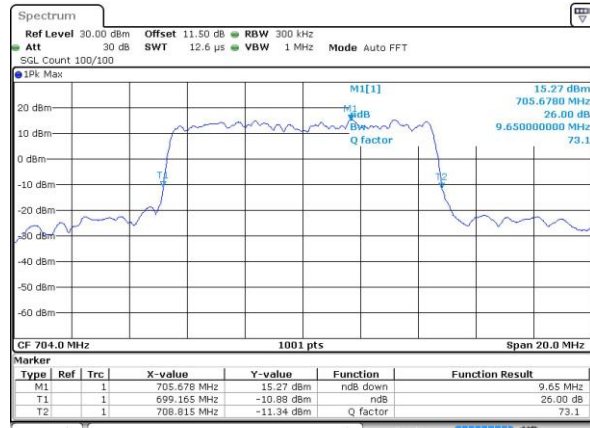


LTE Band 12

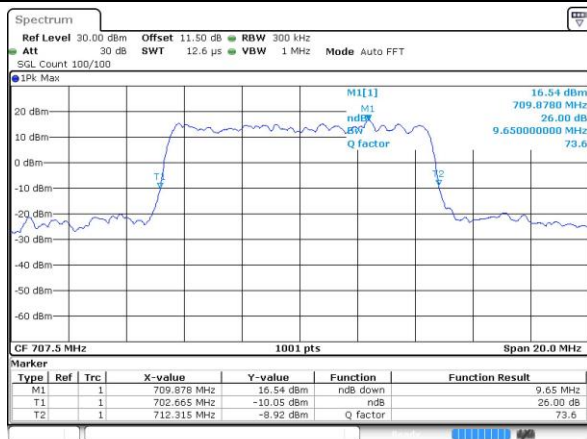
Lowest Channel / 10MHz / QPSK



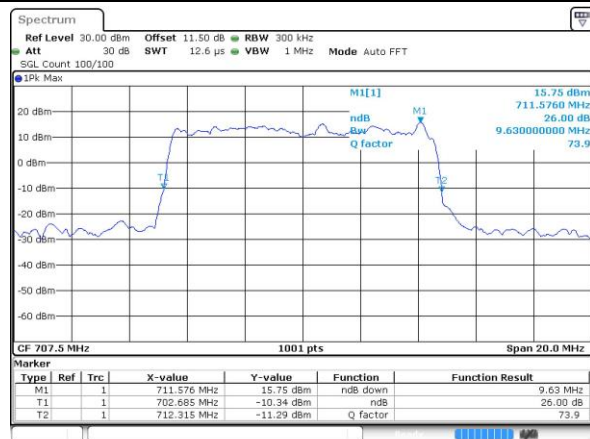
Lowest Channel / 10MHz / 16QAM



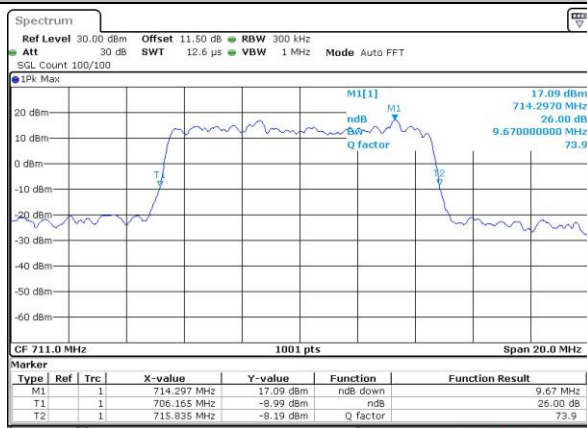
Middle Channel / 10MHz / QPSK



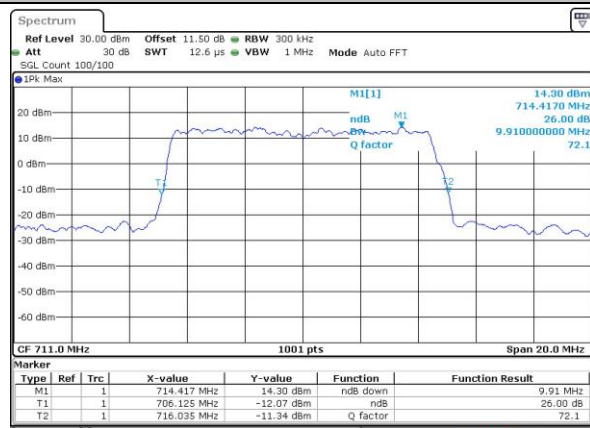
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM





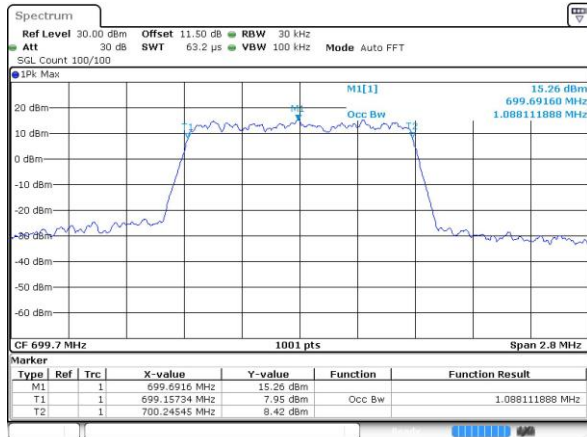
Occupied Bandwidth

Mode	LTE Band 12 : 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	1.09	1.1	2.73	2.72	4.5	4.49	8.99	8.99	-	-	-	-
Middle CH	1.1	1.1	2.72	2.72	4.47	4.49	9.11	9.05	-	-	-	-
Highest CH	1.09	1.09	2.72	2.73	4.48	4.5	9.05	9.03	-	-	-	-

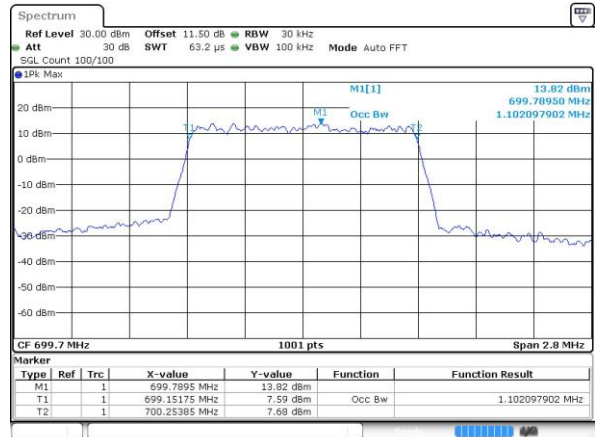


LTE Band 12

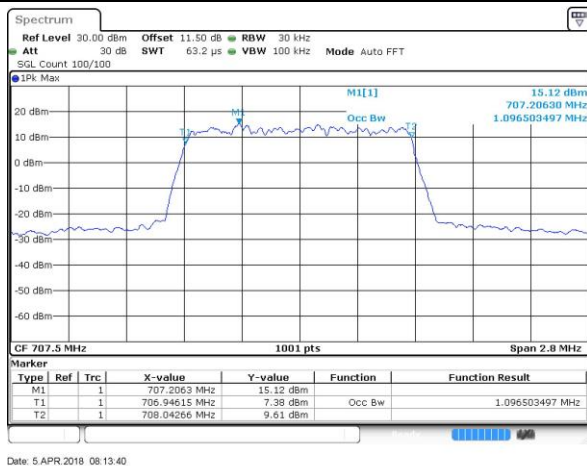
Lowest Channel / 1.4MHz / QPSK



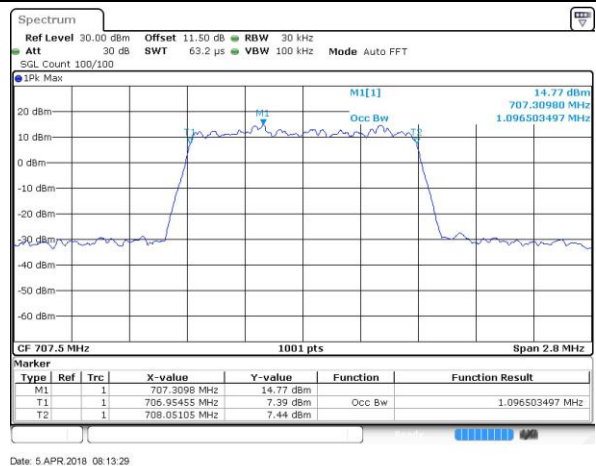
Lowest Channel / 1.4MHz / 16QAM



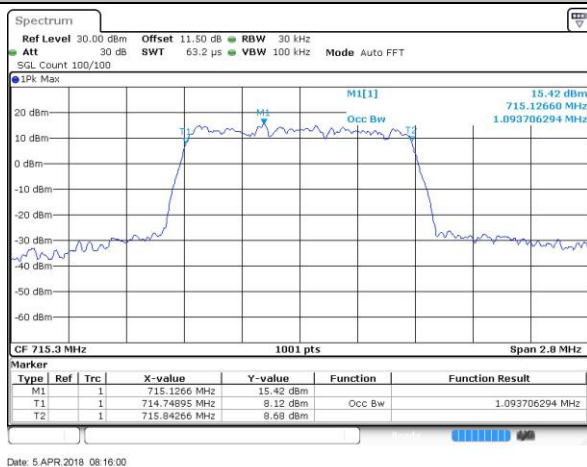
Middle Channel / 1.4MHz / QPSK



Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



Highest Channel / 1.4MHz / 16QAM

