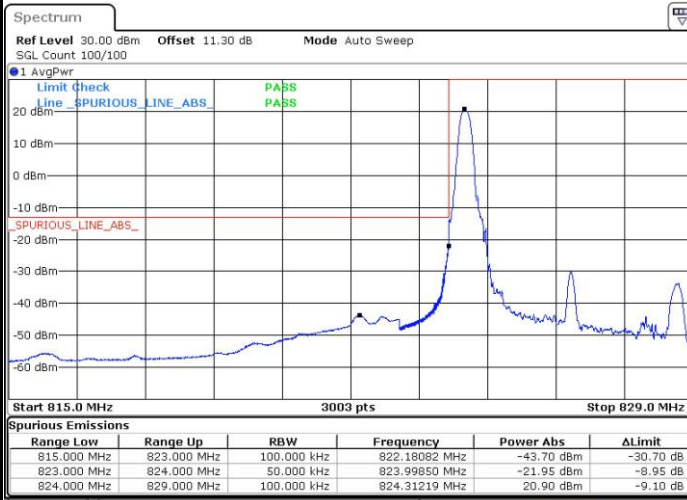




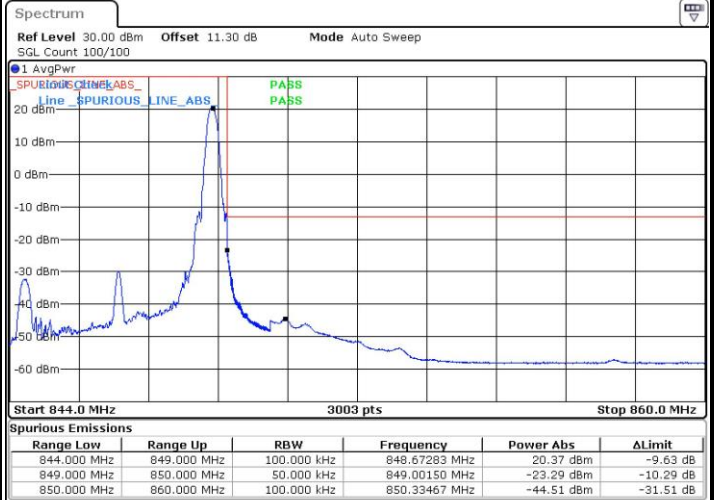
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



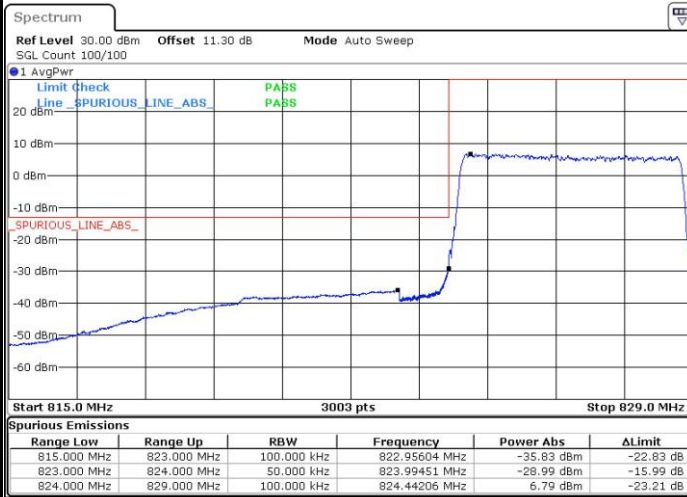
Date: 20 JUL 2018 04:45:18

Highest Band Edge / 1 RB



Date: 20 JUL 2018 04:56:44

Lowest Band Edge / Full RB



Date: 20 JUL 2018 04:48:33

Highest Band Edge / Full RB

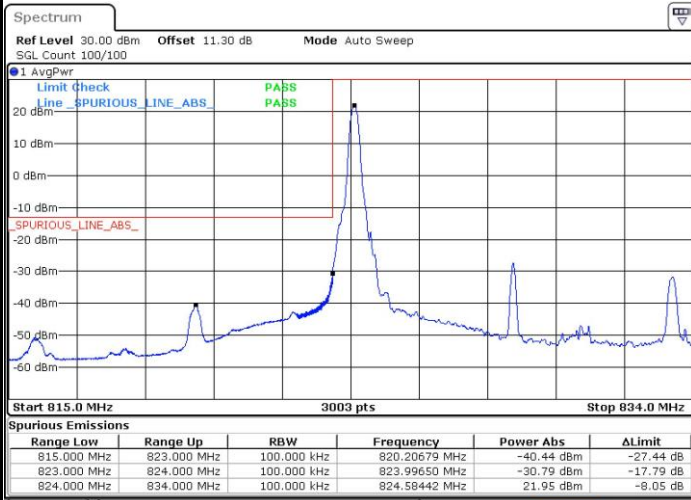


Date: 20 JUL 2018 04:59:59



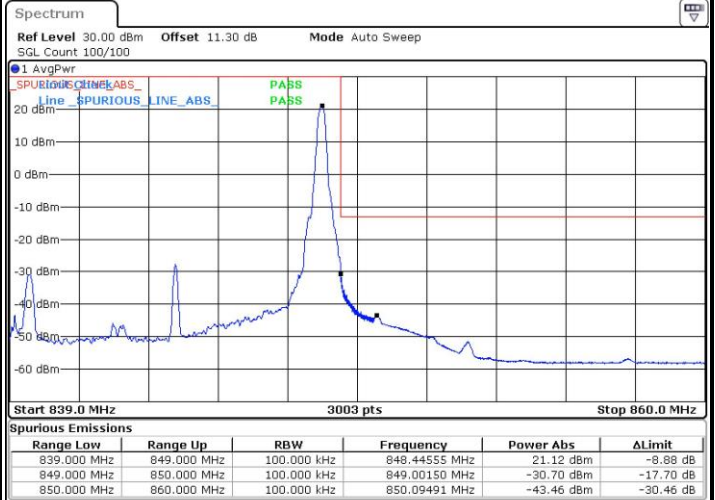
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



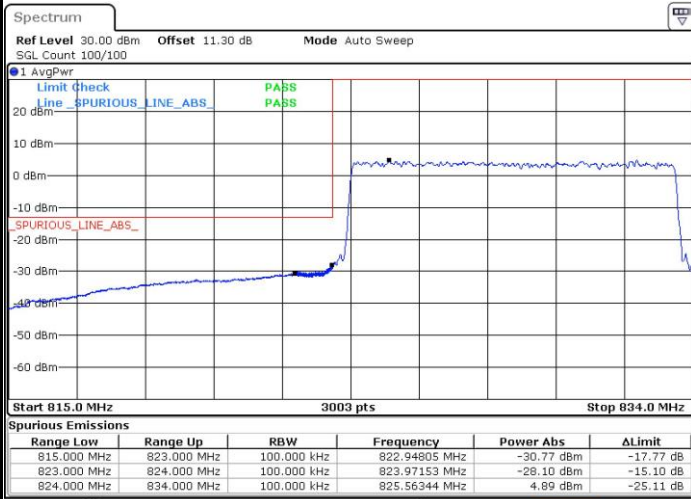
Date: 20 JUL 2018 05:04:05

Highest Band Edge / 1 RB



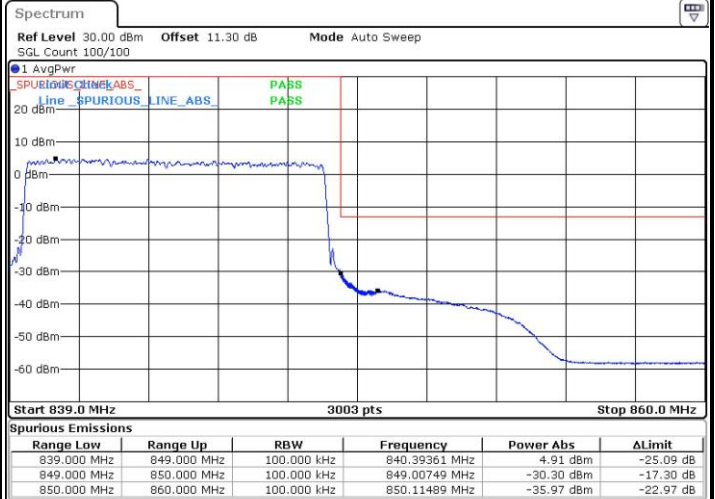
Date: 20 JUL 2018 05:15:33

Lowest Band Edge / Full RB



Date: 20 JUL 2018 05:07:20

Highest Band Edge / Full RB

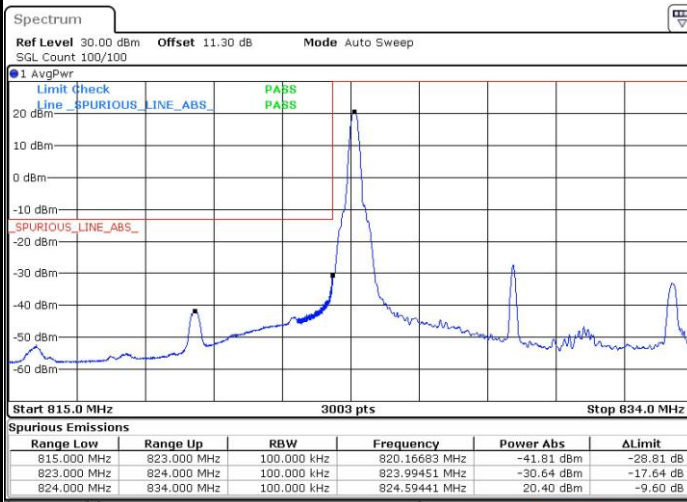


Date: 20 JUL 2018 05:18:48



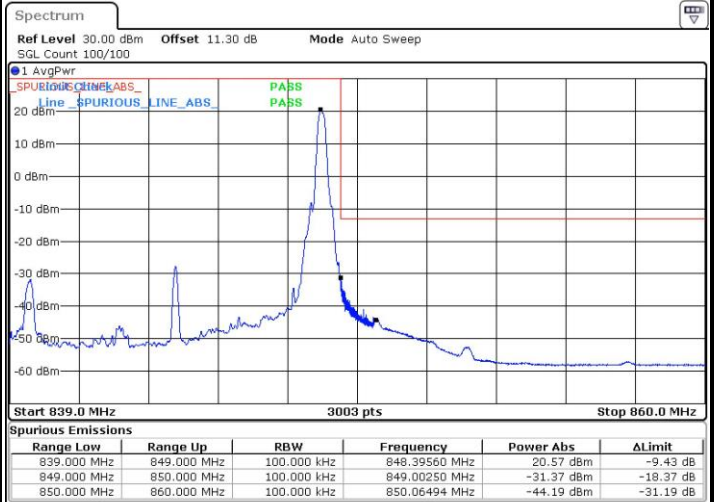
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



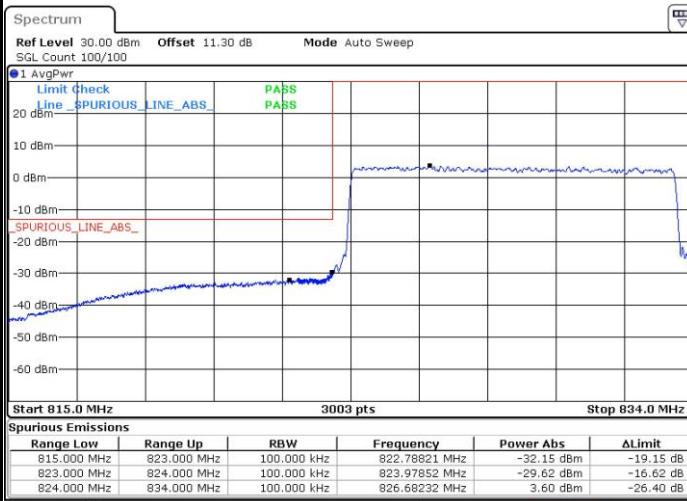
Date: 20 JUL 2018 05:05:42

Highest Band Edge / 1 RB



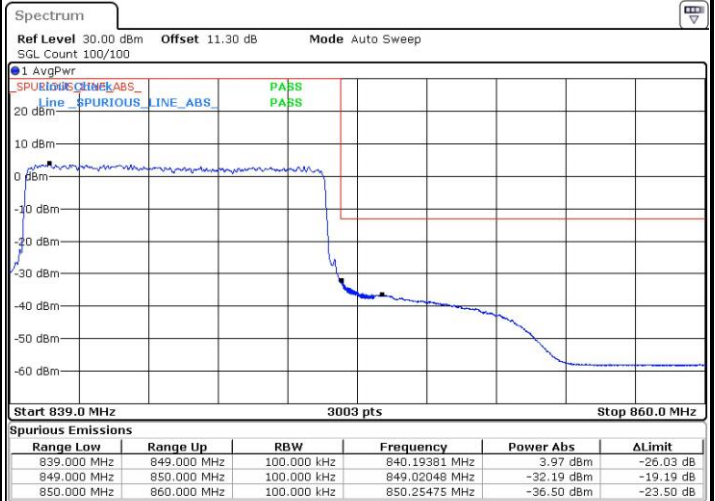
Date: 20 JUL 2018 05:17:11

Lowest Band Edge / Full RB



Date: 20 JUL 2018 05:08:58

Highest Band Edge / Full RB



Date: 20 JUL 2018 05:20:26



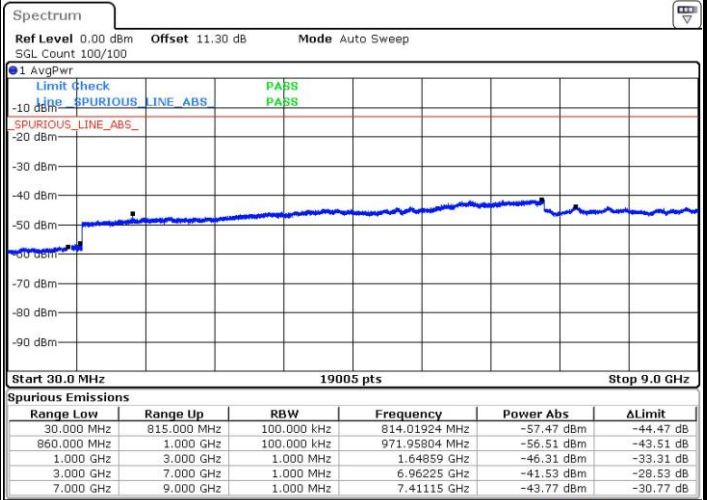
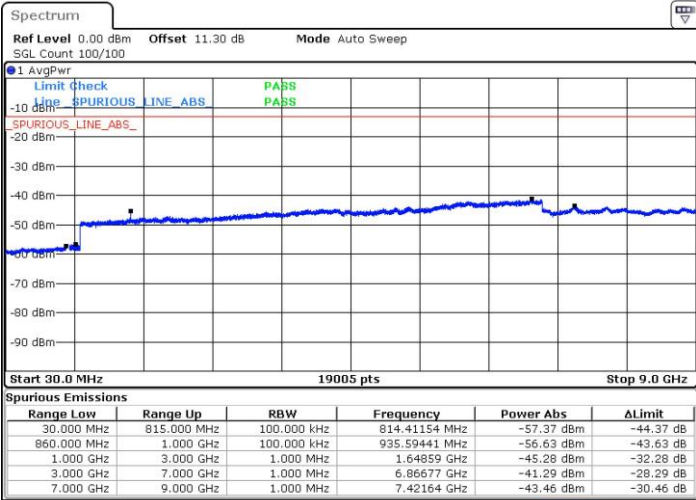
Conducted Spurious Emission



LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

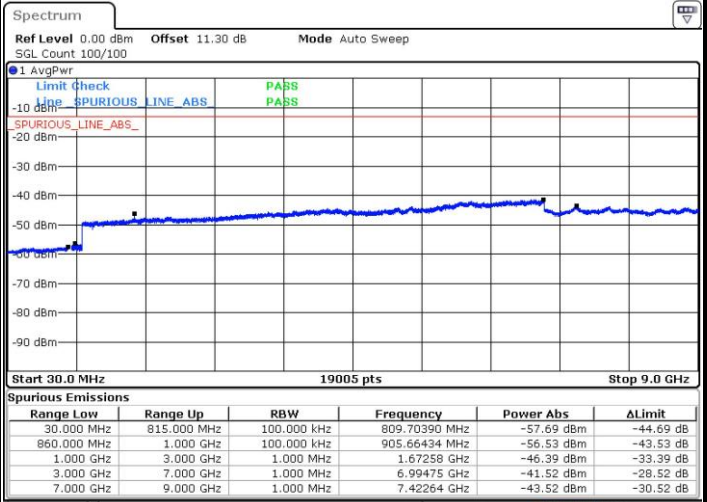
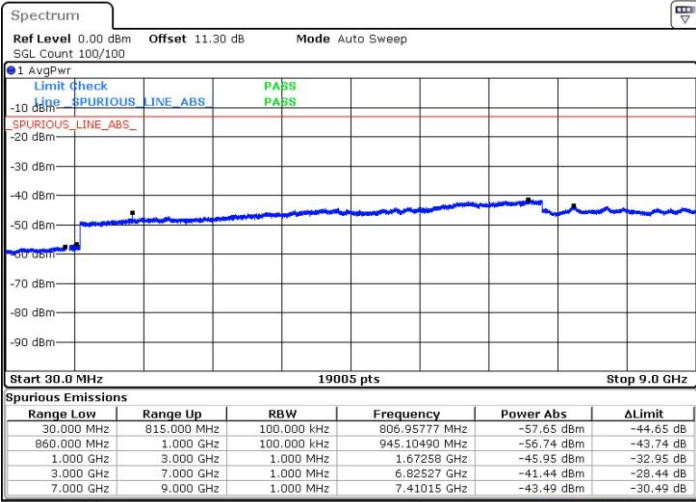


Date: 20 JUL 2018 05:30:18

Date: 20 JUL 2018 05:31:12

Middle Channel / QPSK

Middle Channel / 16QAM



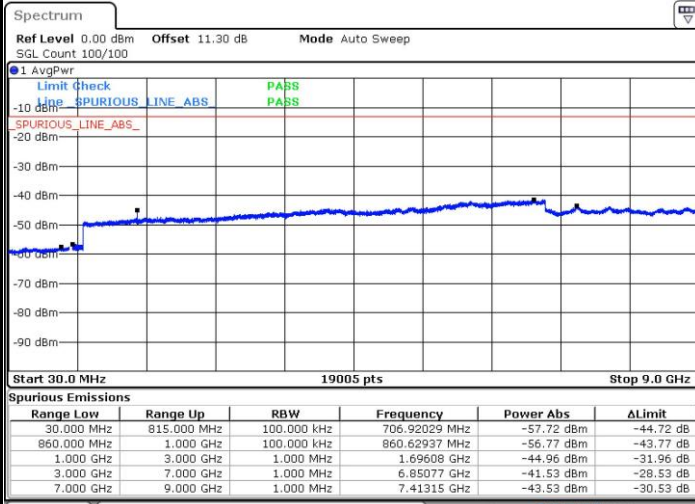
Date: 20 JUL 2018 05:32:47

Date: 20 JUL 2018 05:33:41



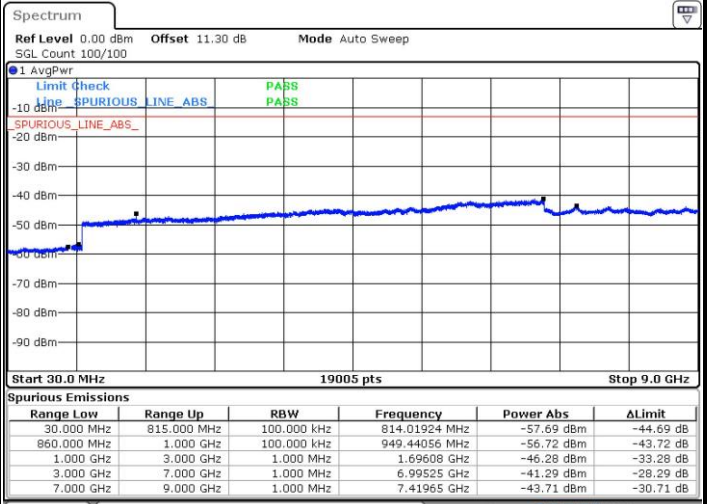
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 20 JUL 2018 05:41:46

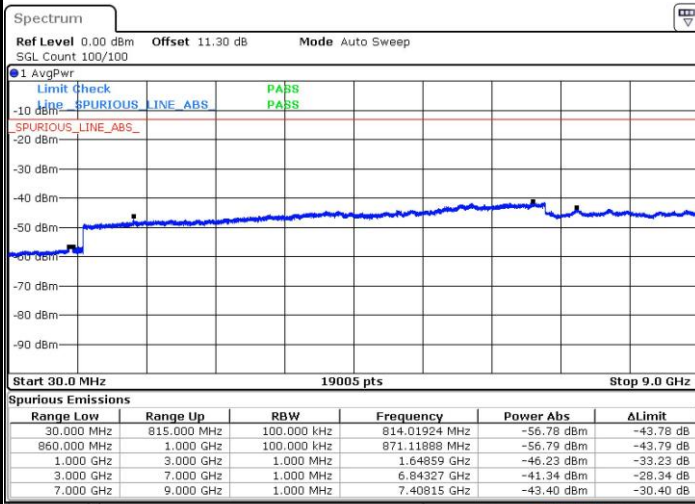
Highest Channel / 16QAM



Date: 20 JUL 2018 05:42:40

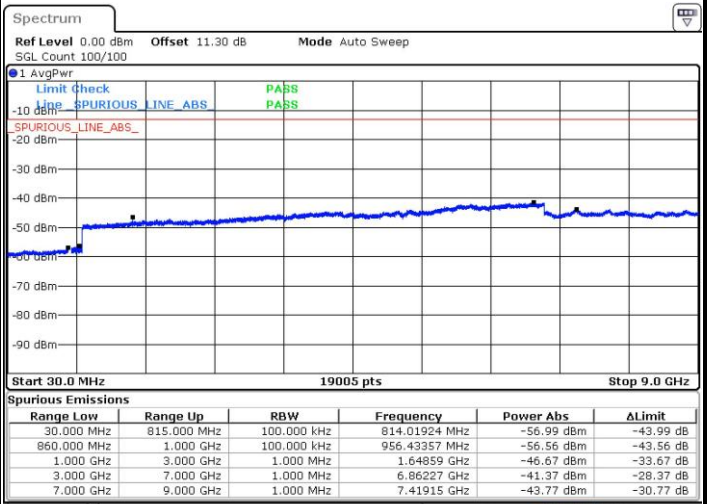
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 20 JUL 2018 04:15:11

Lowest Channel / 16QAM



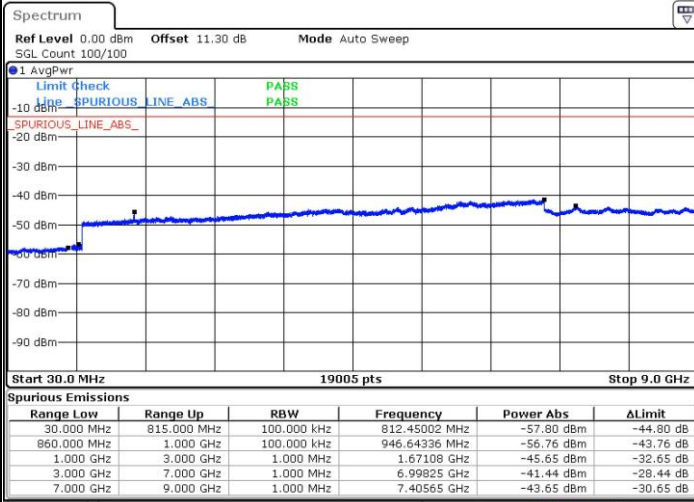
Date: 20 JUL 2018 04:16:12



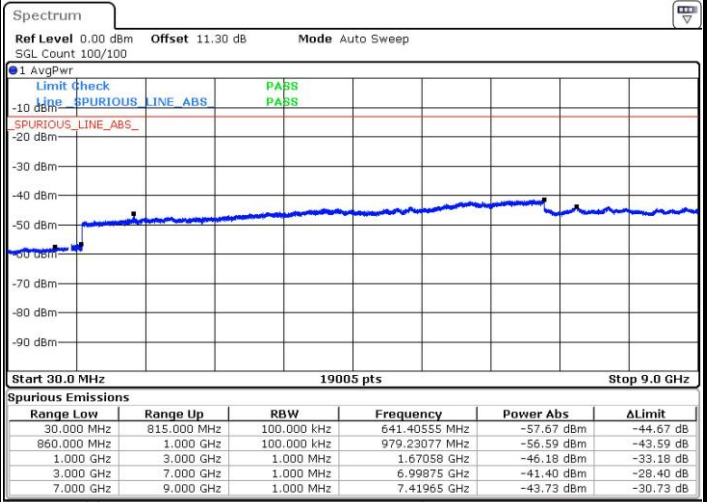
LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



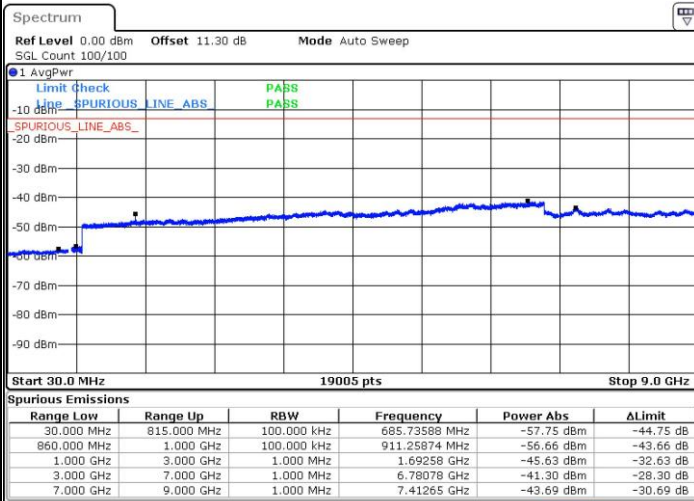
Date: 20 JUL 2018 04:17:53



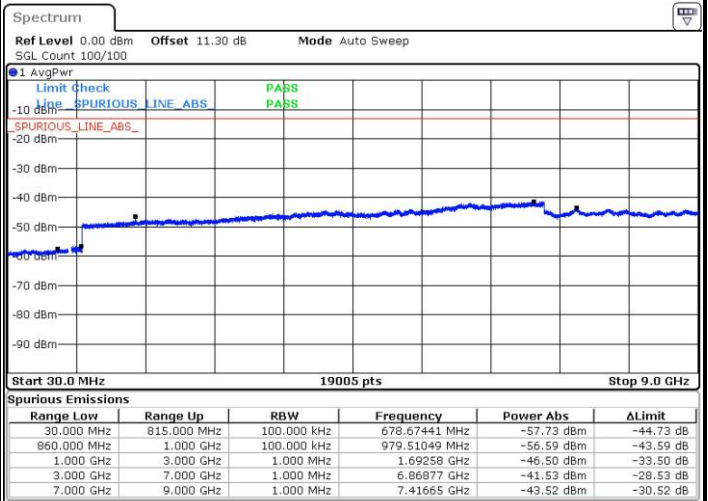
Date: 20 JUL 2018 04:32:24

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20 JUL 2018 04:40:28



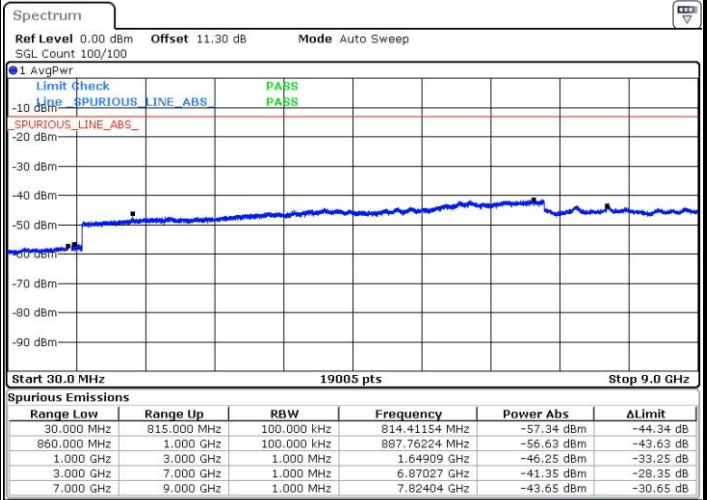
Date: 20 JUL 2018 04:41:22



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

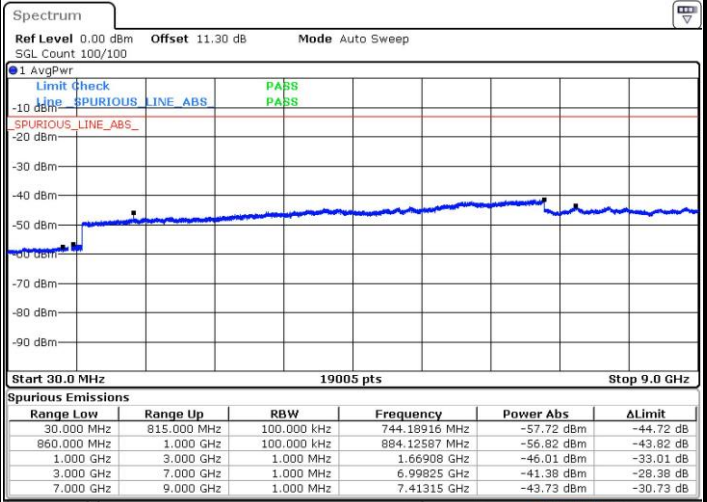
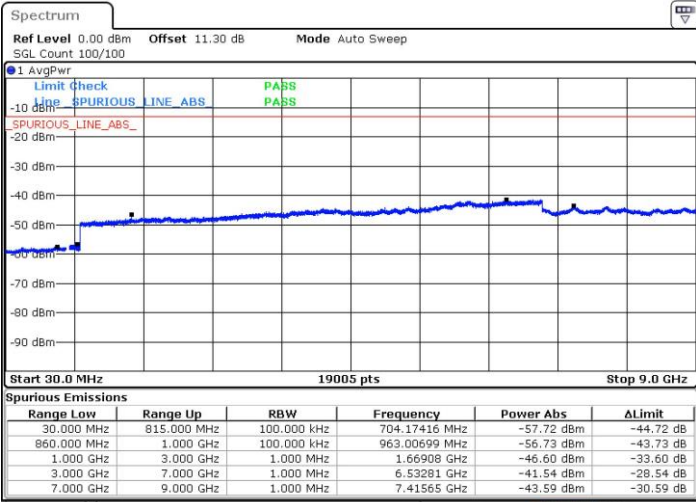


Date: 20 JUL 2018 04:49:26

Date: 20 JUL 2018 04:50:20

Middle Channel / QPSK

Middle Channel / 16QAM



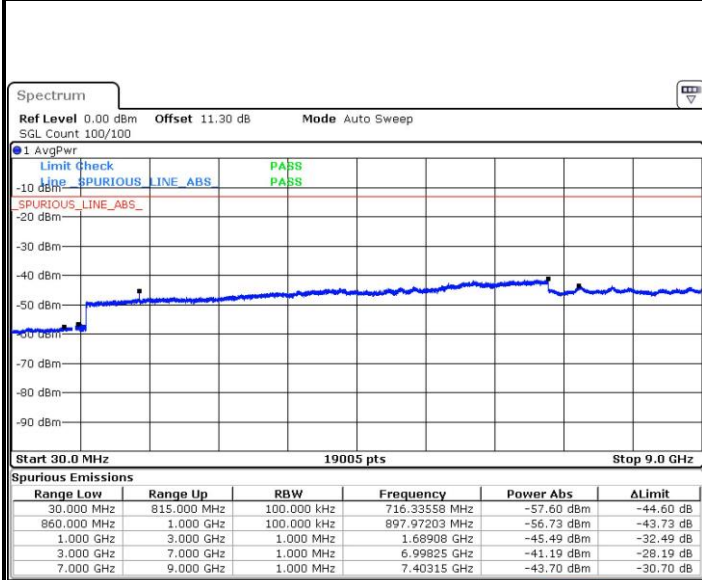
Date: 20 JUL 2018 04:51:54

Date: 20 JUL 2018 04:52:48



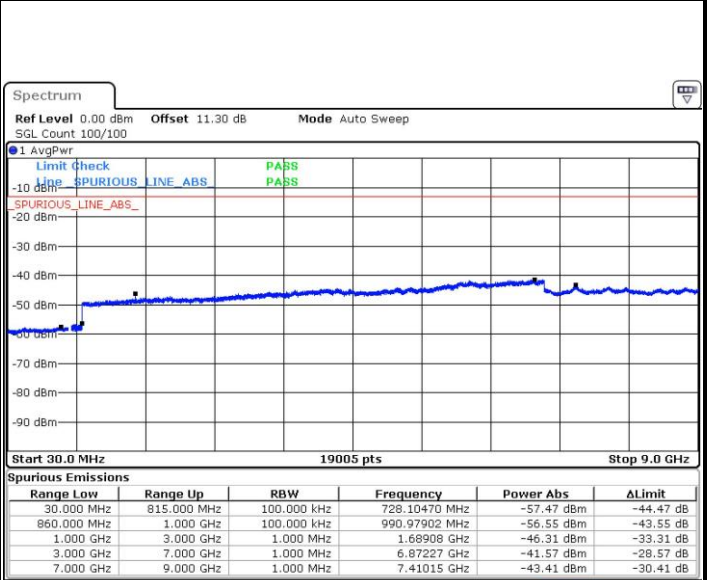
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 20 JUL 2018 05:00:52

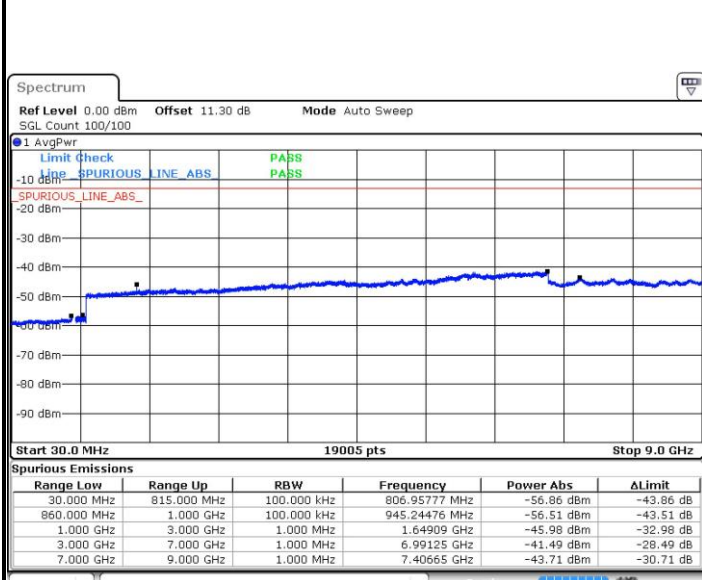
Highest Channel / 16QAM



Date: 20 JUL 2018 05:01:46

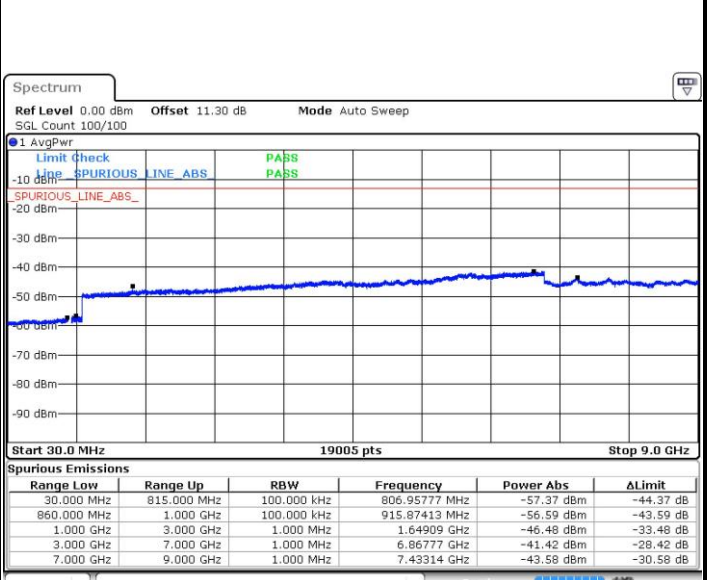
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 20 JUL 2018 05:09:51

Lowest Channel / 16QAM



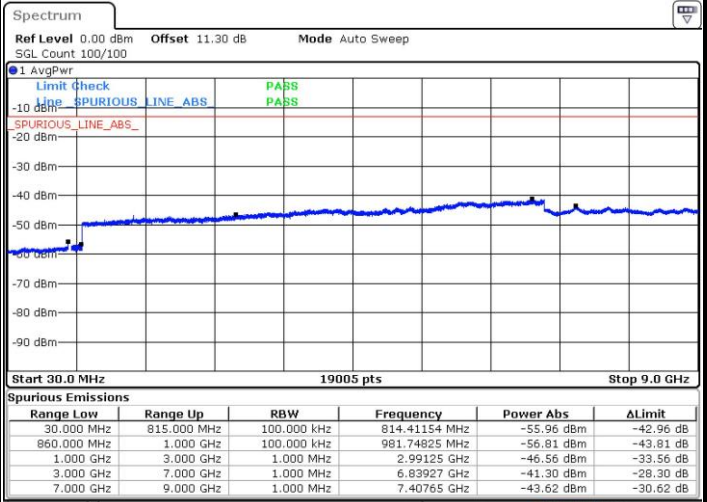
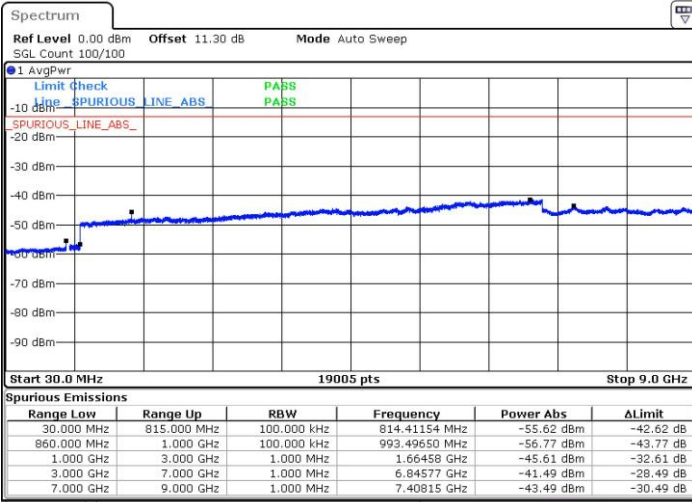
Date: 20 JUL 2018 05:10:46



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

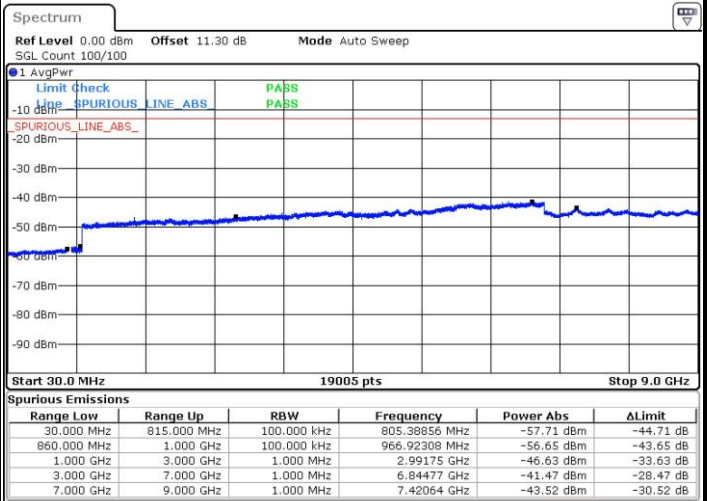
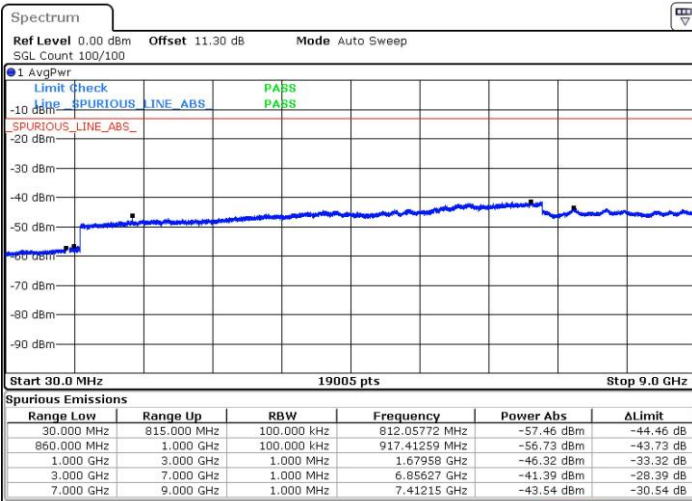


Date: 20 JUL 2018 05:12:20

Date: 20 JUL 2018 05:13:14

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 20 JUL 2018 05:21:19

Date: 20 JUL 2018 05:22:13



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	0.0086	PASS
40	Normal Voltage	0.0094	
30	Normal Voltage	0.0154	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0071	
0	Normal Voltage	0.0123	
-10	Normal Voltage	0.0173	
-20	Normal Voltage	0.0130	
-30	Normal Voltage	0.0092	
20	Maximum Voltage	0.0158	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0020	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.2 V.
2. Note: 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	3.8	4.9	4.96	5.83	PASS
Middle CH	4.09	4.81	4.87	5.88	
Highest CH	4	4.9	4.87	5.83	



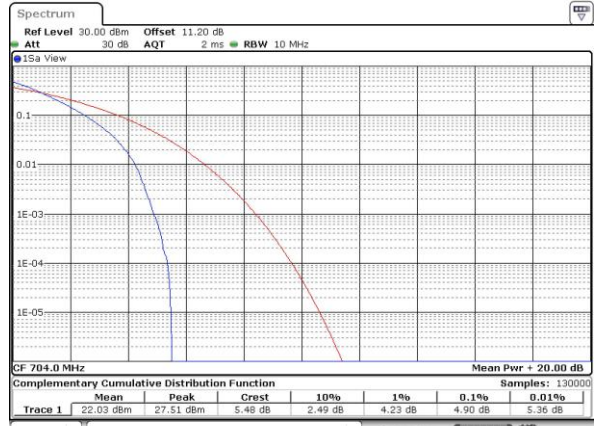
LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 20 JUL 2016 07:04:20

Lowest Channel / Full RB



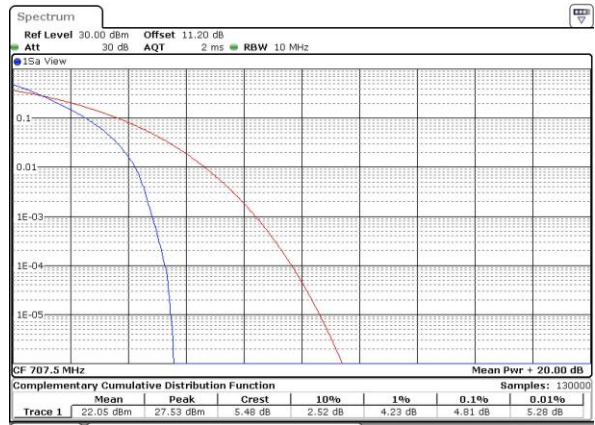
Date: 20 JUL 2016 07:04:10

Middle Channel / 1RB



Date: 20 JUL 2016 07:04:31

Middle Channel / Full RB



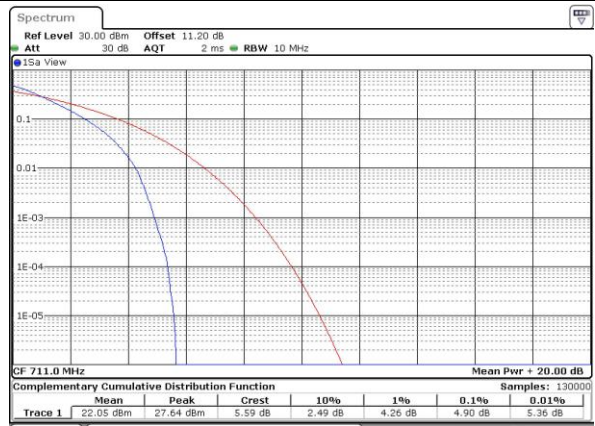
Date: 20 JUL 2016 07:04:40

Highest Channel / 1RB



Date: 20 JUL 2016 07:05:02

Highest Channel / Full RB

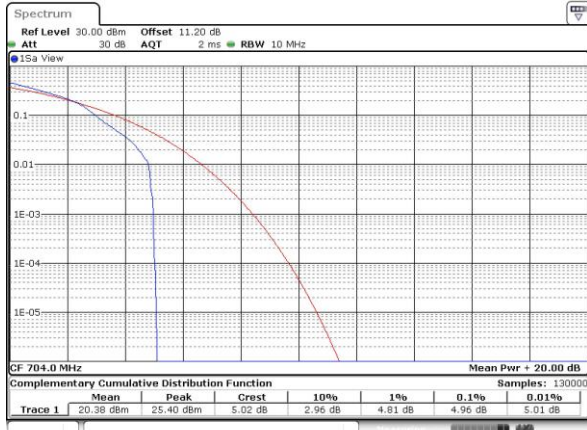


Date: 20 JUL 2016 07:04:51



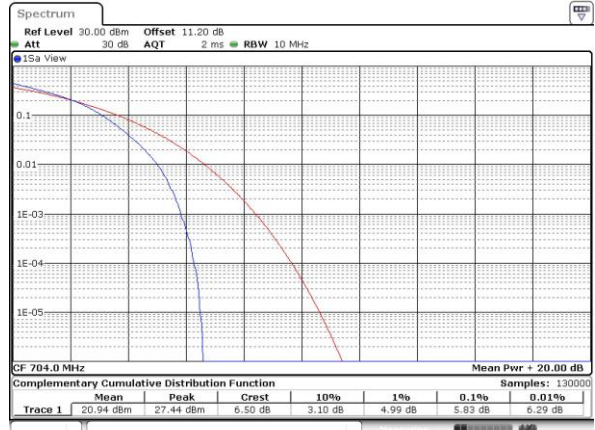
LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



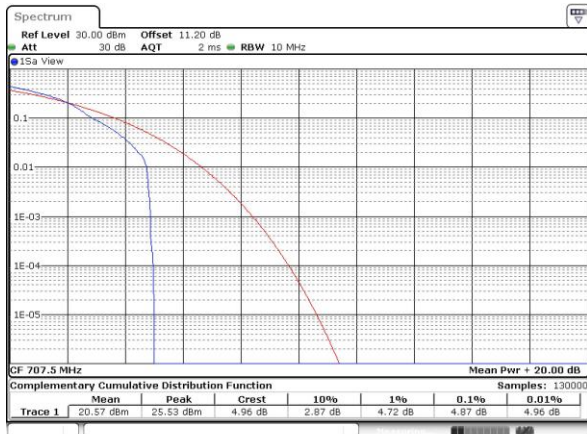
Date: 20 JUL 2016 07:03:21

Lowest Channel / Full RB



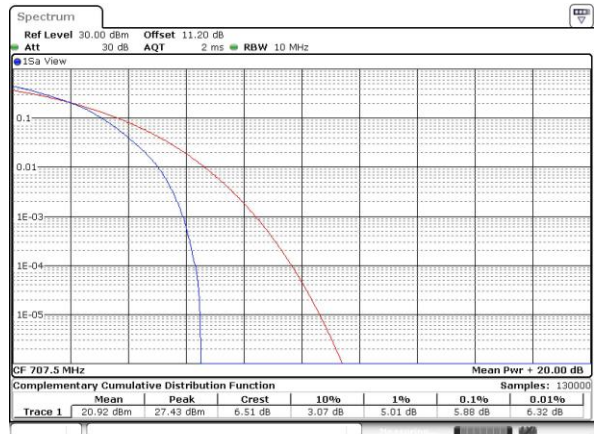
Date: 20 JUL 2016 07:03:12

Middle Channel / 1RB



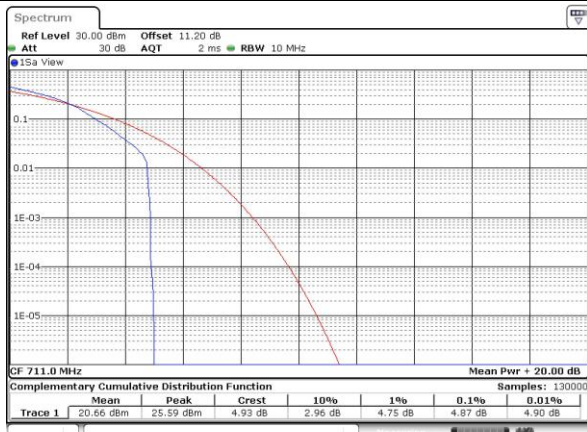
Date: 20 JUL 2016 07:03:31

Middle Channel / Full RB



Date: 20 JUL 2016 07:03:41

Highest Channel / 1RB



Date: 20 JUL 2016 07:04:01

Highest Channel / Full RB



Date: 20 JUL 2016 07:03:51



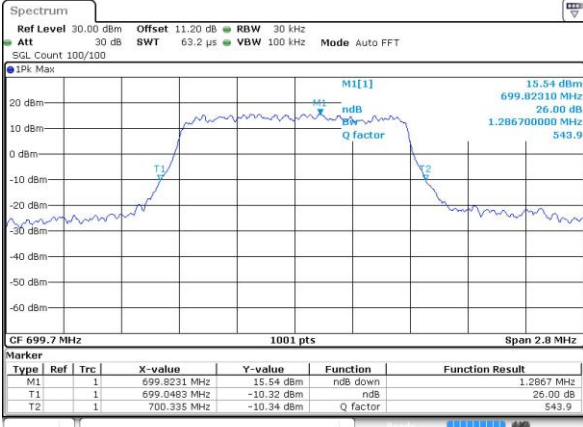
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.29	1.29	3.02	3.05	4.97	4.91	9.81	9.75	-	-	-	-
Middle CH	1.28	1.26	3.03	3.05	4.97	4.95	9.93	9.89	-	-	-	-
Highest CH	1.26	1.28	3.04	3.06	4.85	4.95	9.69	9.85	-	-	-	-



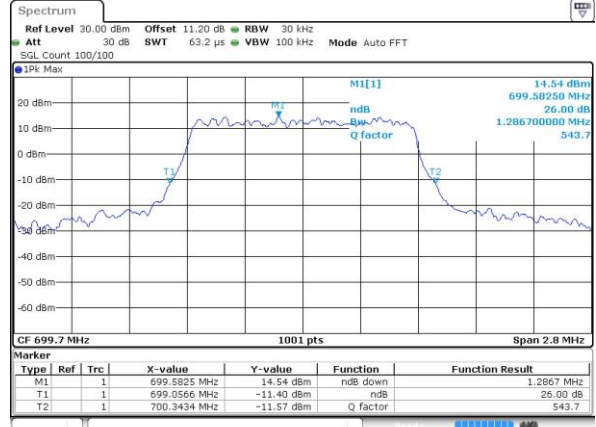
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



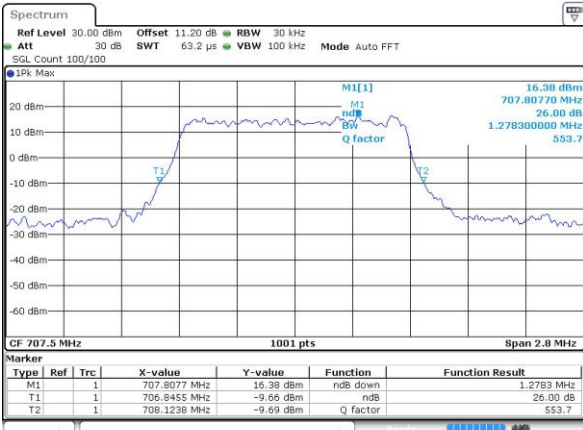
Date: 20 JUL 2018 08:31:21

Lowest Channel / 1.4MHz / 16QAM



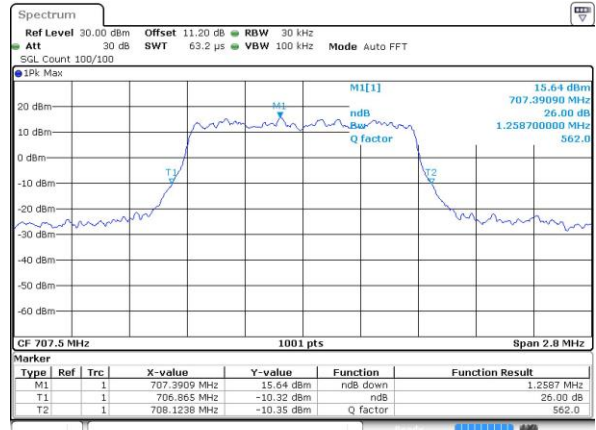
Date: 20 JUL 2018 08:31:05

Middle Channel / 1.4MHz / QPSK



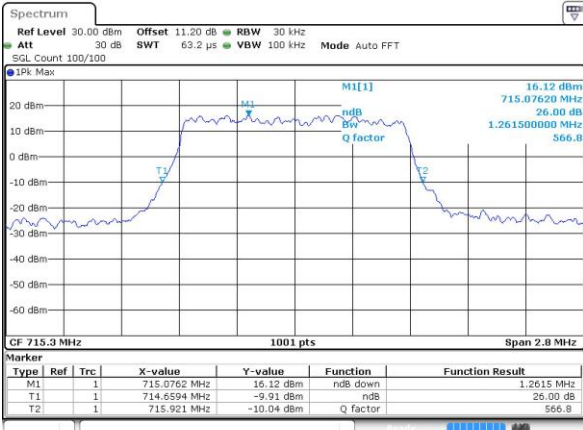
Date: 20 JUL 2018 06:54:04

Middle Channel / 1.4MHz / 16QAM



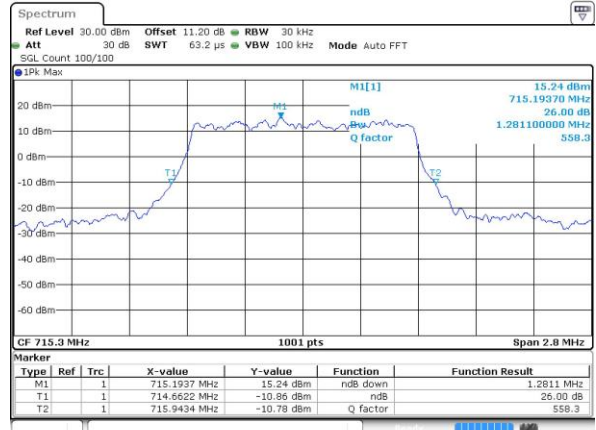
Date: 20 JUL 2018 06:54:14

Highest Channel / 1.4MHz / QPSK



Date: 20 JUL 2018 06:56:43

Highest Channel / 1.4MHz / 16QAM

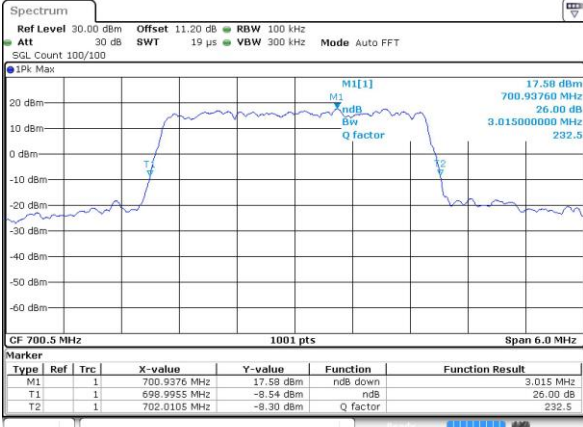


Date: 20 JUL 2018 06:56:33



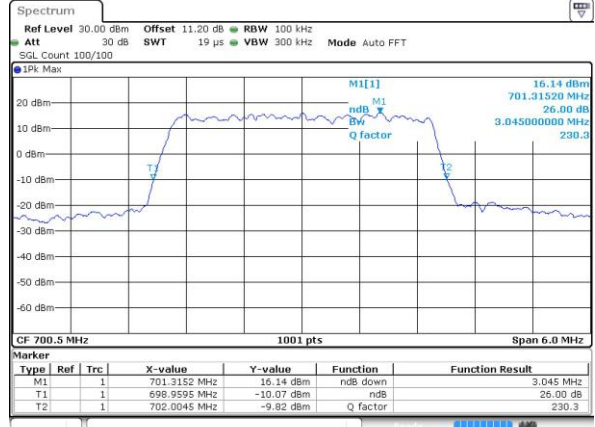
LTE Band 12

Lowest Channel / 3MHz / QPSK



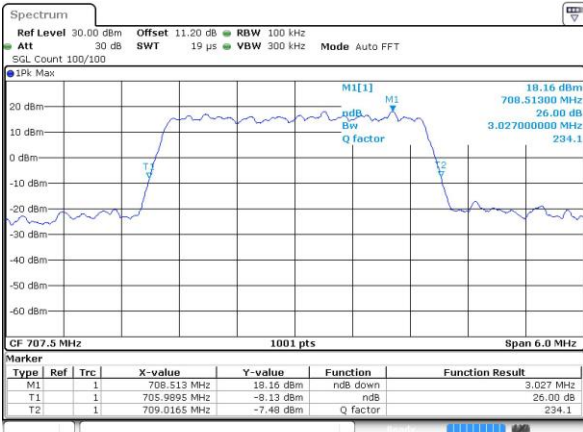
Date: 20 JUL 2018 05:50:53

Lowest Channel / 3MHz / 16QAM



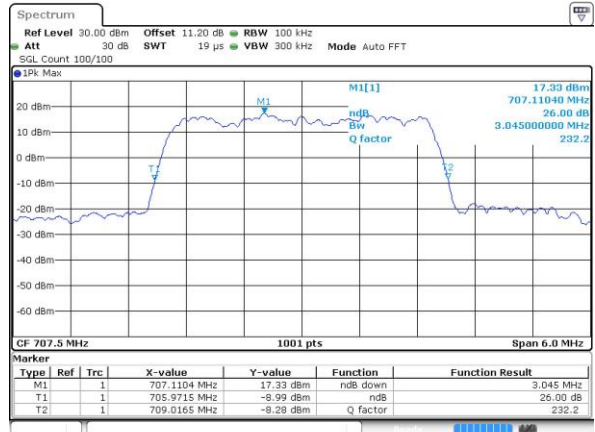
Date: 20 JUL 2018 05:50:43

Middle Channel / 3MHz / QPSK



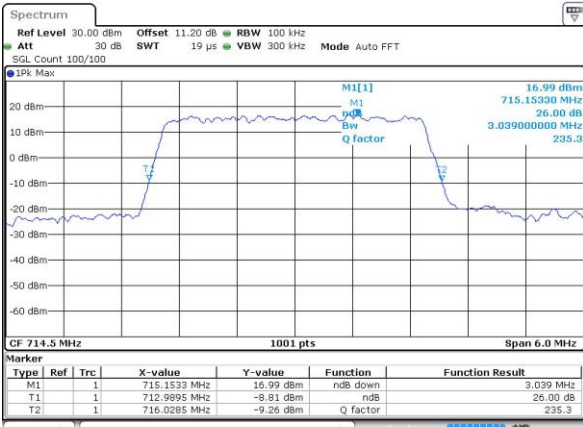
Date: 20 JUL 2018 05:57:42

Middle Channel / 3MHz / 16QAM



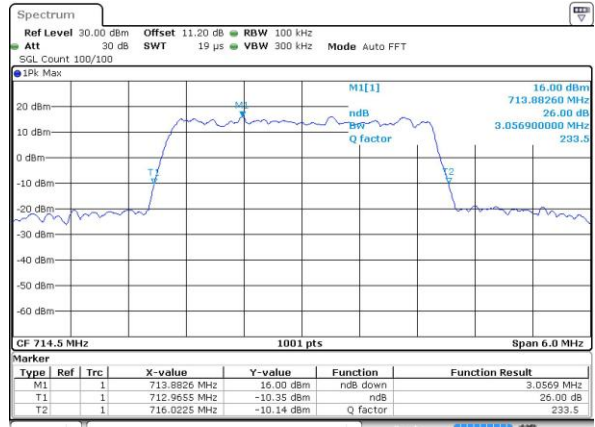
Date: 20 JUL 2018 05:57:52

Highest Channel / 3MHz / QPSK



Date: 20 JUL 2018 06:00:21

Highest Channel / 3MHz / 16QAM

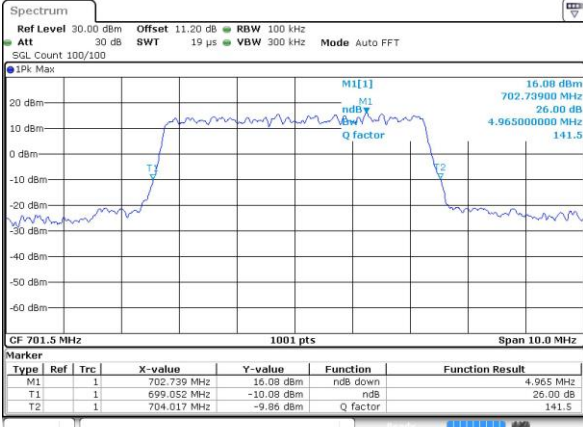


Date: 20 JUL 2018 06:00:11



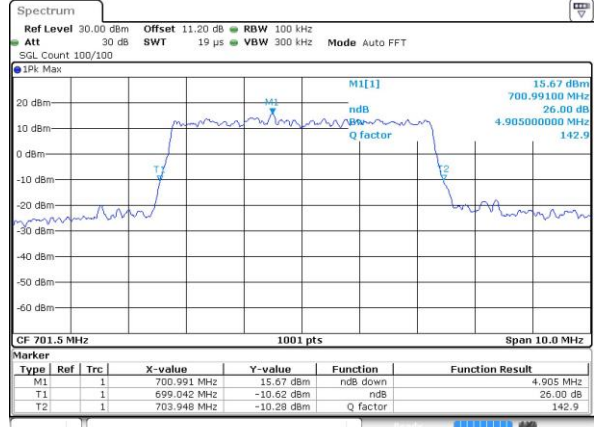
LTE Band 12

Lowest Channel / 5MHz / QPSK



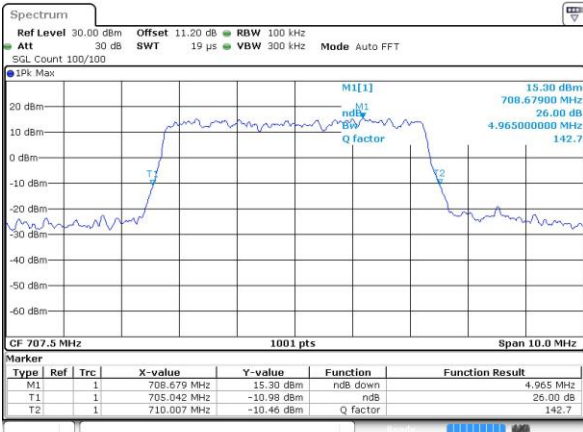
Date: 20 JUL 2018 06:07:19

Lowest Channel / 5MHz / 16QAM



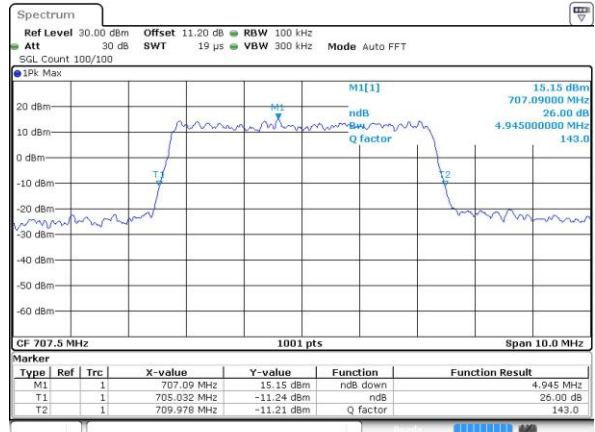
Date: 20 JUL 2018 06:07:09

Middle Channel / 5MHz / QPSK



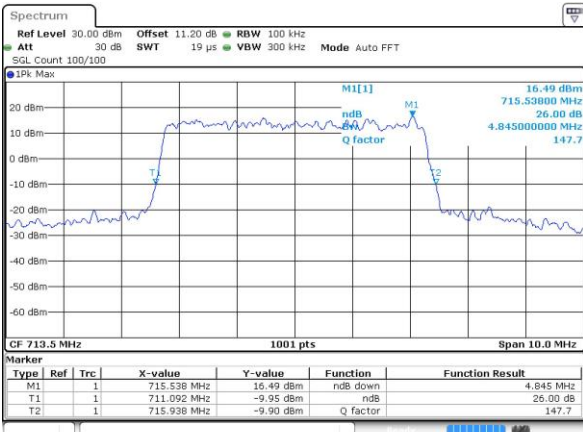
Date: 20 JUL 2018 06:14:08

Middle Channel / 5MHz / 16QAM



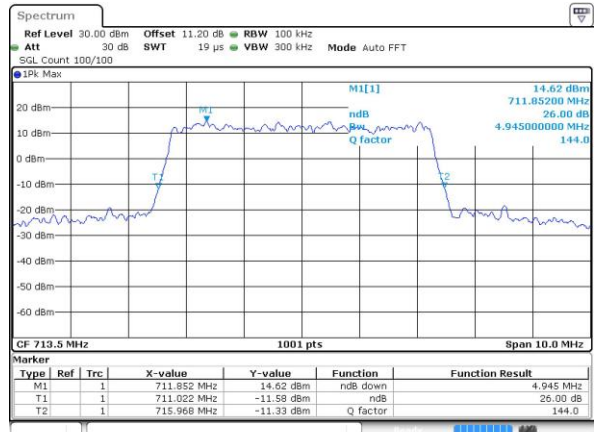
Date: 20 JUL 2018 06:14:18

Highest Channel / 5MHz / QPSK



Date: 20 JUL 2018 06:16:47

Highest Channel / 5MHz / 16QAM

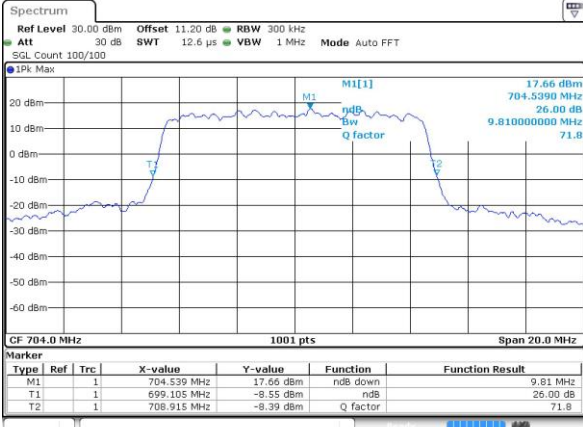


Date: 20 JUL 2018 06:16:37



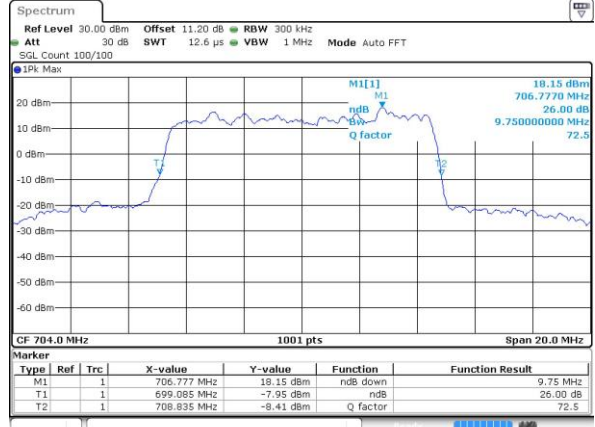
LTE Band 12

Lowest Channel / 10MHz / QPSK



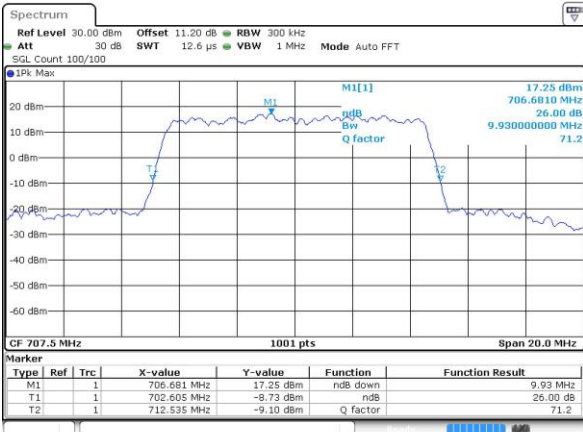
Date: 20 JUL 2018 06:23:45

Lowest Channel / 10MHz / 16QAM



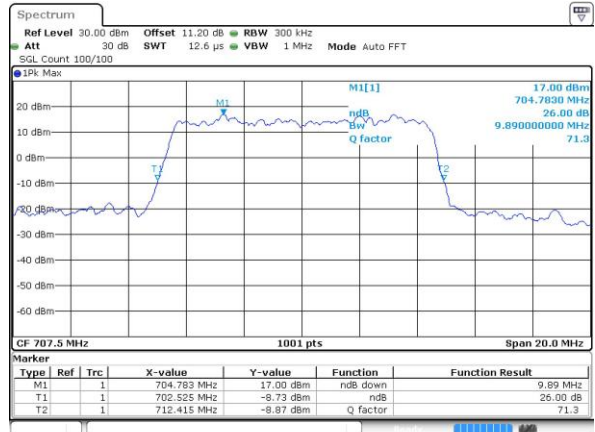
Date: 20 JUL 2018 06:23:35

Middle Channel / 10MHz / QPSK



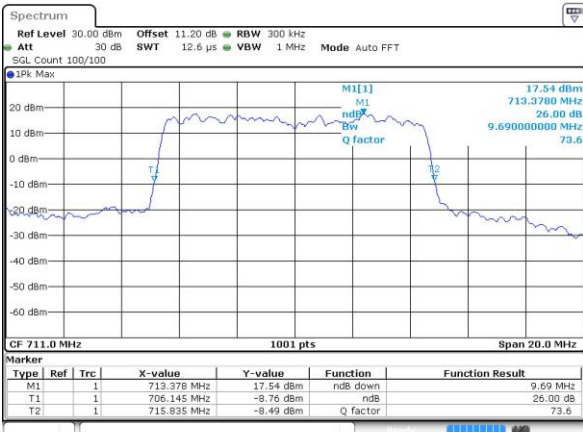
Date: 20 JUL 2018 06:30:34

Middle Channel / 10MHz / 16QAM



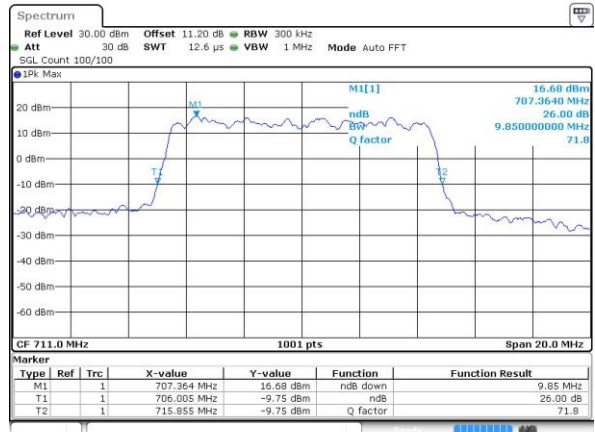
Date: 20 JUL 2018 06:30:44

Highest Channel / 10MHz / QPSK



Date: 20 JUL 2018 06:33:13

Highest Channel / 10MHz / 16QAM



Date: 20 JUL 2018 06:33:03



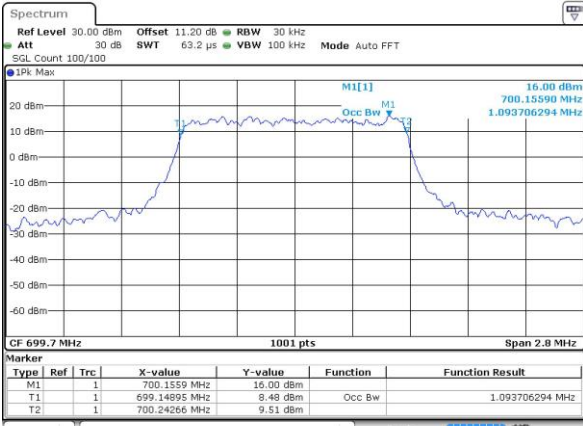
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.71	2.75	4.48	4.49	9.05	9.03	-	-	-	-
Middle CH	1.1	1.1	2.74	2.7	4.52	4.49	9.05	9.03	-	-	-	-
Highest CH	1.09	1.1	2.72	2.73	4.54	4.51	9.01	9.01	-	-	-	-



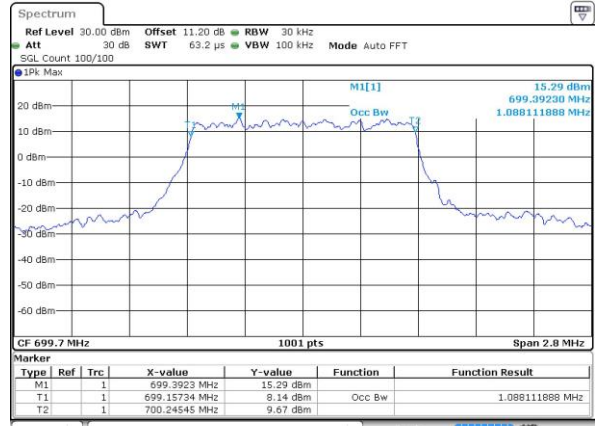
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



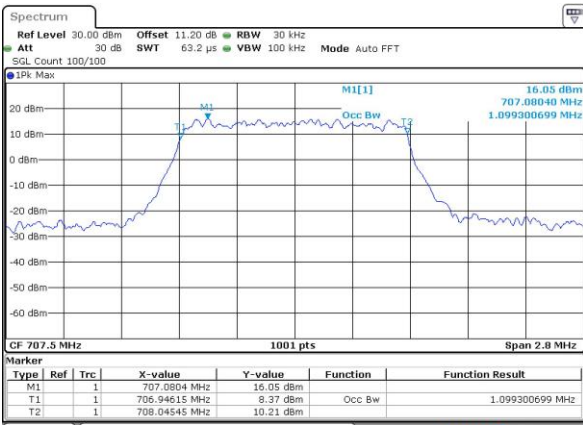
Date: 20 JUL 2018 07:05:55

Lowest Channel / 1.4MHz / 16QAM



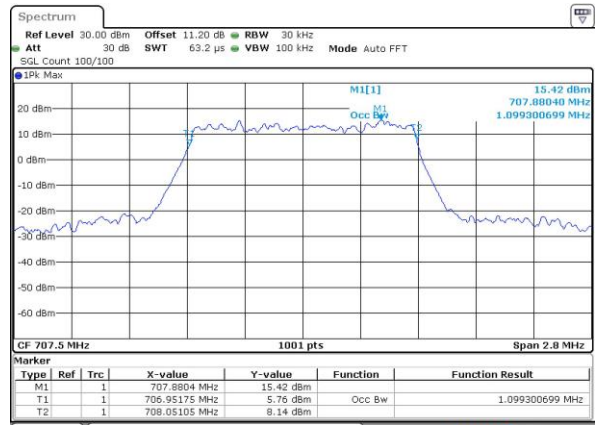
Date: 20 JUL 2018 06:46:55

Middle Channel / 1.4MHz / QPSK



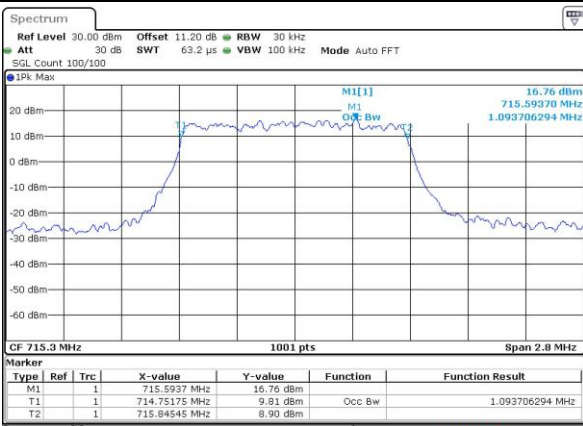
Date: 20 JUL 2018 06:53:54

Middle Channel / 1.4MHz / 16QAM



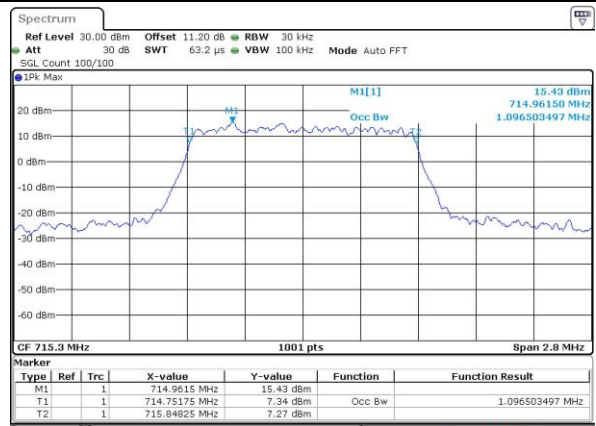
Date: 20 JUL 2018 06:53:44

Highest Channel / 1.4MHz / QPSK



Date: 20 JUL 2018 06:56:13

Highest Channel / 1.4MHz / 16QAM

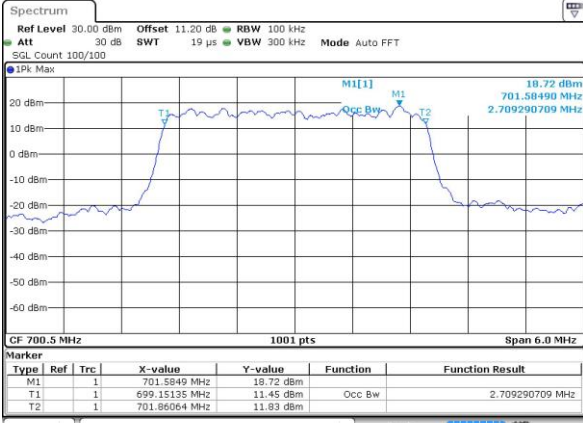


Date: 20 JUL 2018 06:56:23



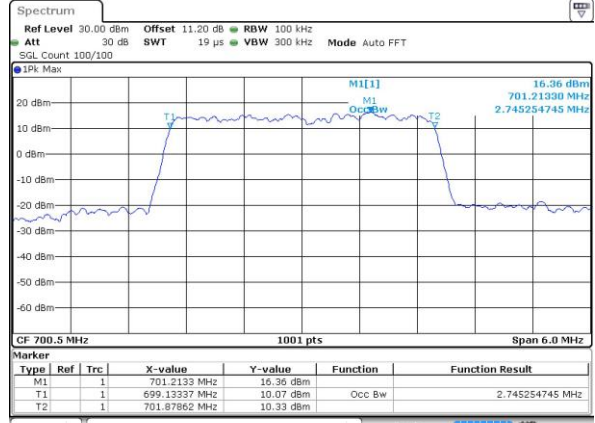
LTE Band 12

Lowest Channel / 3MHz / QPSK



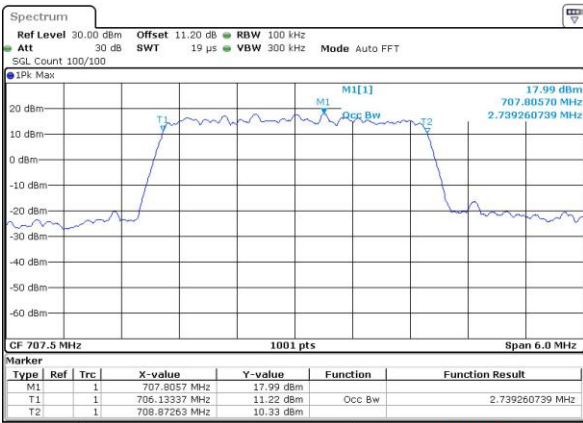
Date: 20 JUL 2018 05:50:23

Lowest Channel / 3MHz / 16QAM



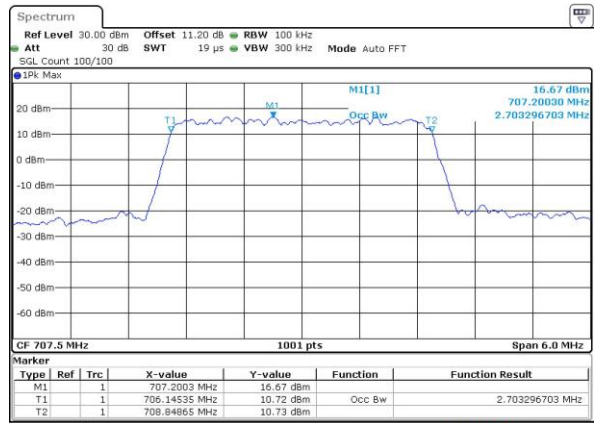
Date: 20 JUL 2018 05:50:33

Middle Channel / 3MHz / QPSK



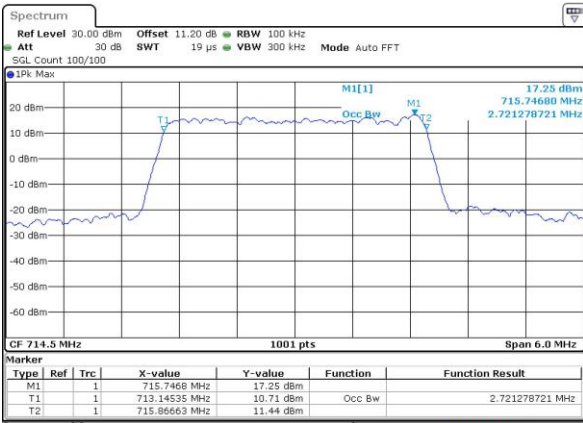
Date: 20 JUL 2018 05:57:32

Middle Channel / 3MHz / 16QAM



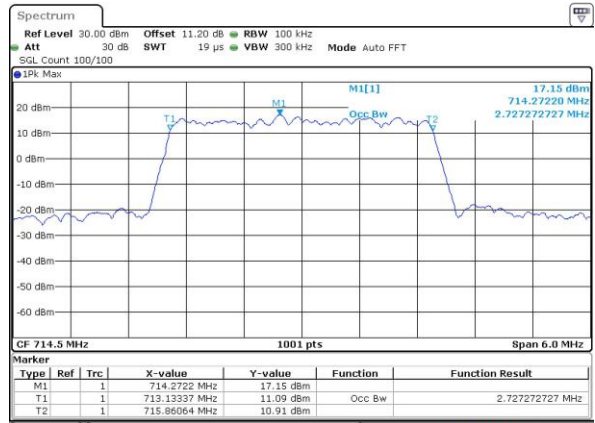
Date: 20 JUL 2018 05:57:22

Highest Channel / 3MHz / QPSK



Date: 20 JUL 2018 05:59:50

Highest Channel / 3MHz / 16QAM



Date: 20 JUL 2018 06:00:00