

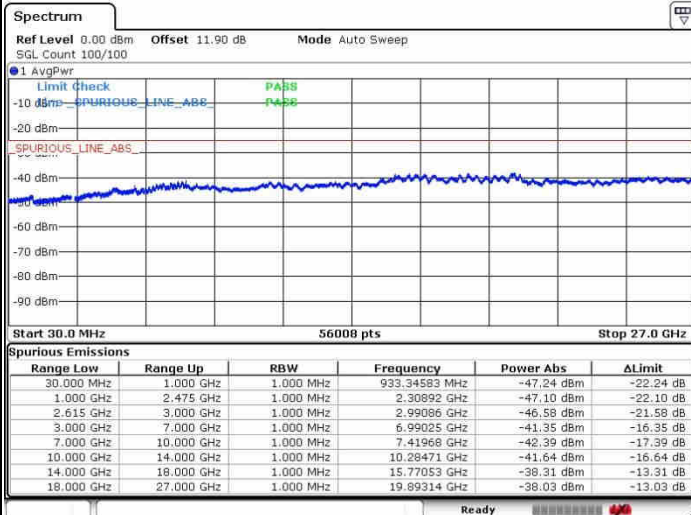


LTE Band 7 / 20MHz+15MHz

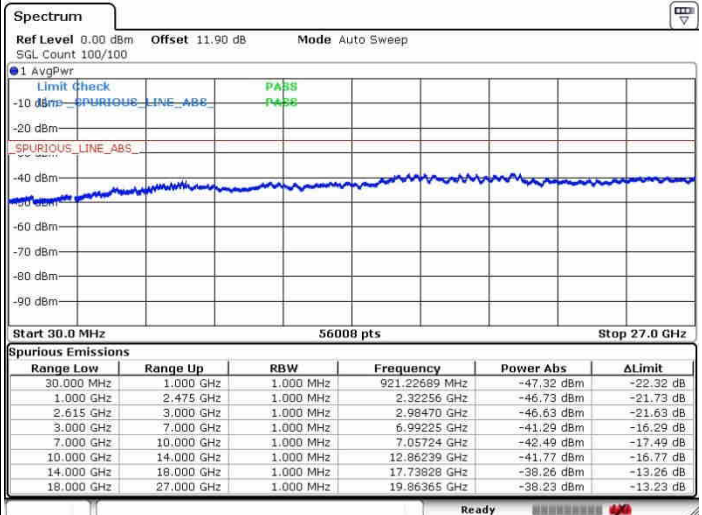
64QAM

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0



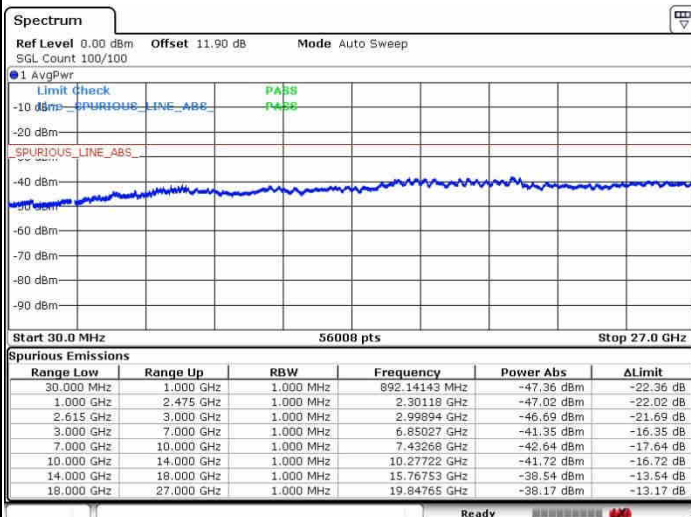
Date: 27.SEP.2017 17:40:48



Date: 27.SEP.2017 17:48:38

Lowest Channel / FullRB

N/A



Date: 27.SEP.2017 17:37:41

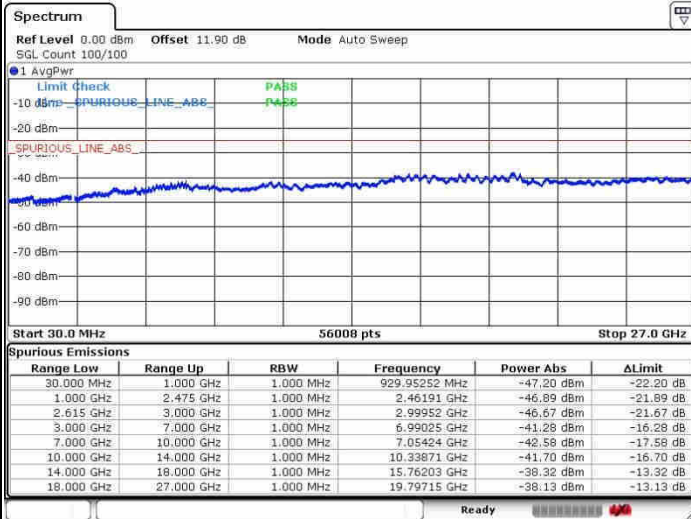


LTE Band 7 / 20MHz+15MHz

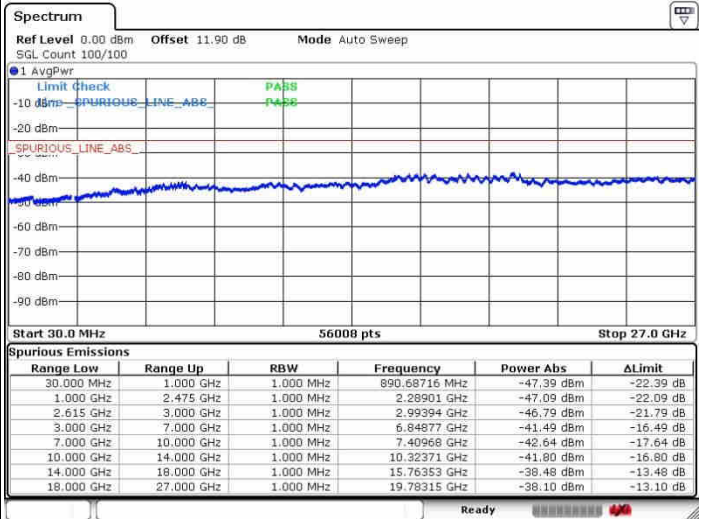
64QAM

Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0



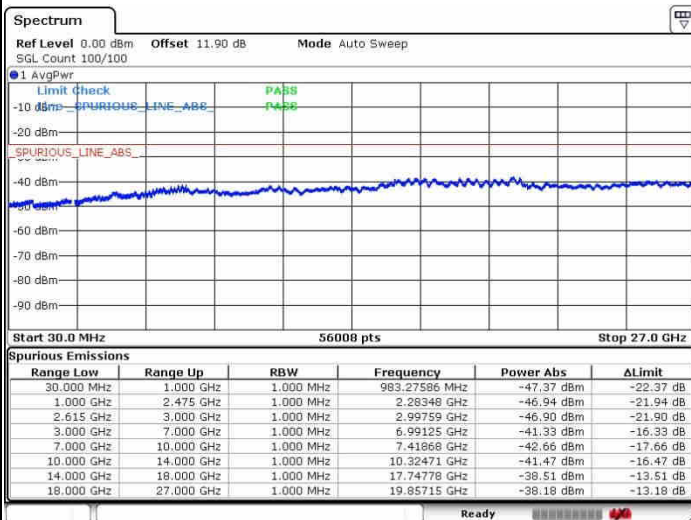
Date: 27.SEP.2017 17:55:48



Date: 27.SEP.2017 17:53:17

Middle Channel / FullIRB

N/A



Date: 27.SEP.2017 17:57:46

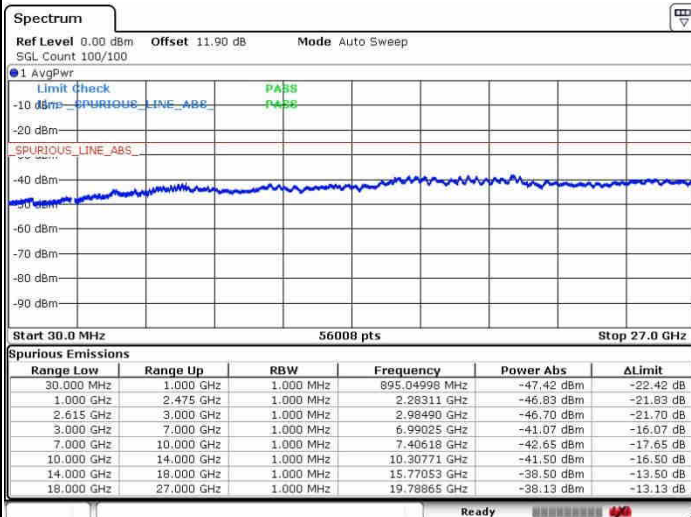


LTE Band 7 / 20MHz+15MHz

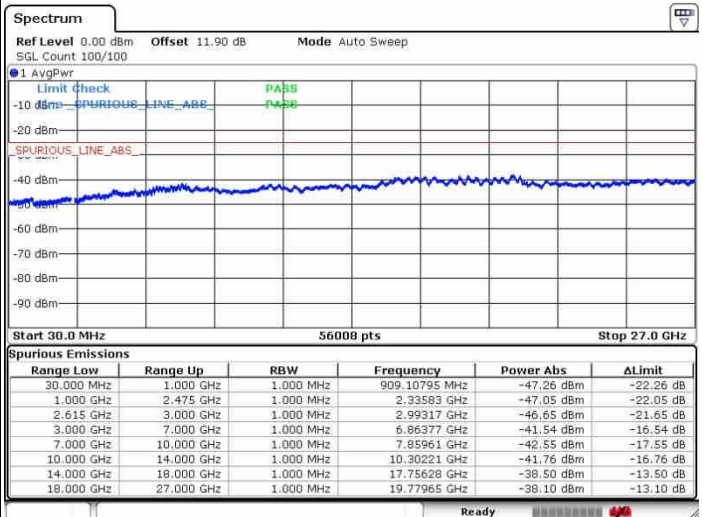
64QAM

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0



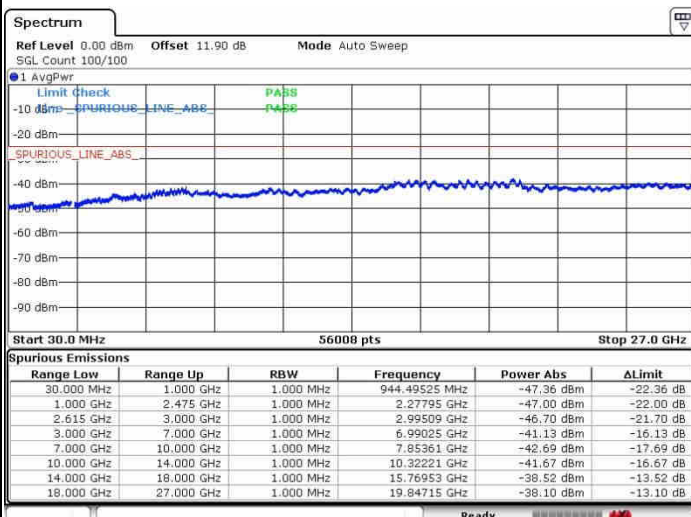
Date: 27 SEP. 2017 18:05:48



Date: 27 SEP. 2017 18:05:04

Highest Channel / FullIRB

N/A



Date: 27 SEP. 2017 18:00:54

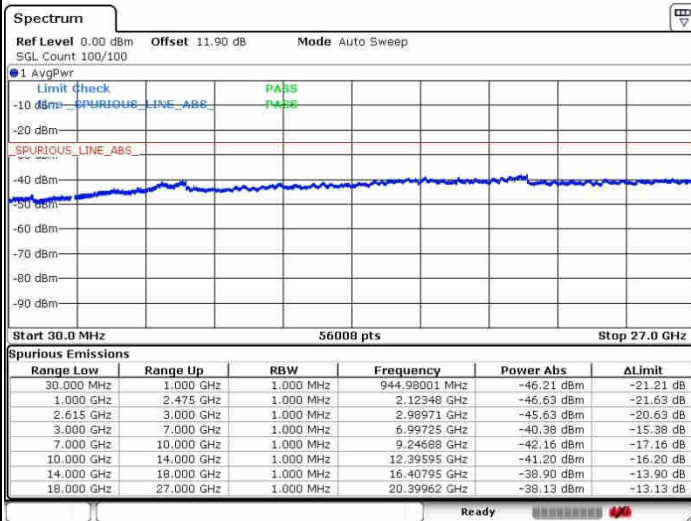


LTE Band 7 / 20MHz+20MHz

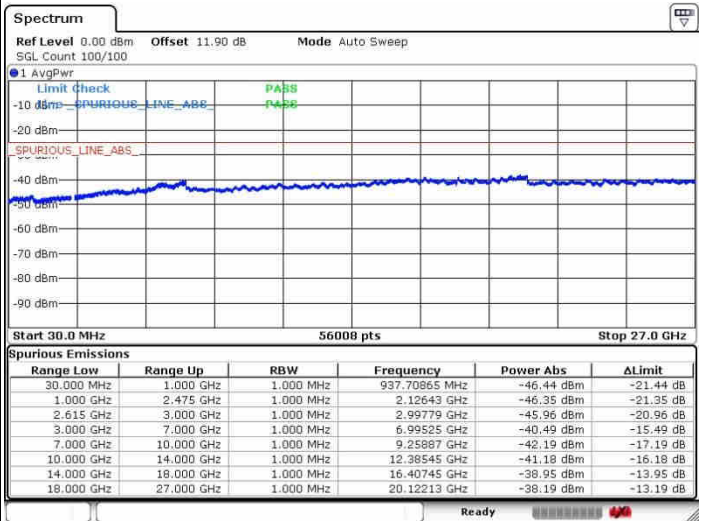
64QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0



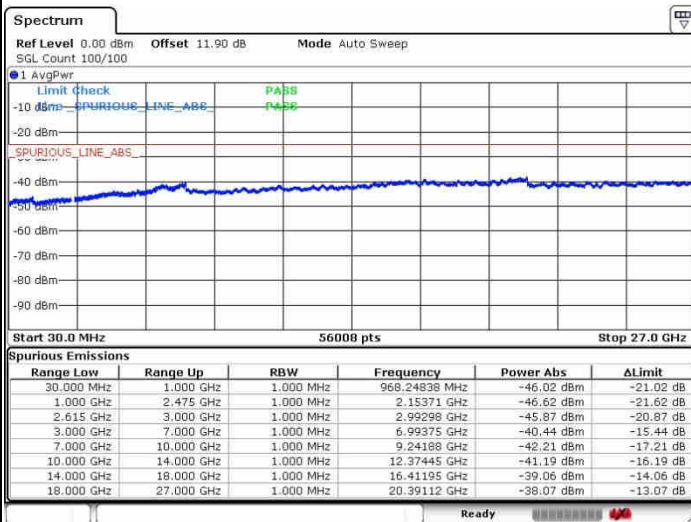
Date: 28.SEP.2017 09:03:29



Date: 28.SEP.2017 09:05:58

Lowest Channel / FullRB

N/A



Date: 28.SEP.2017 09:00:47

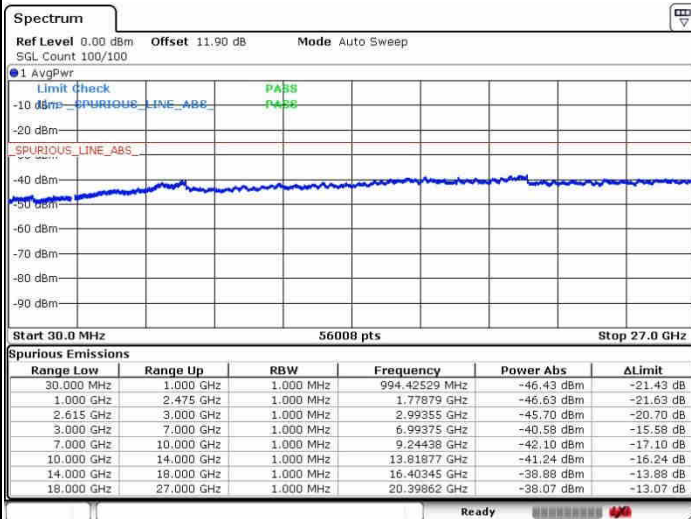


LTE Band 7 / 20MHz+20MHz

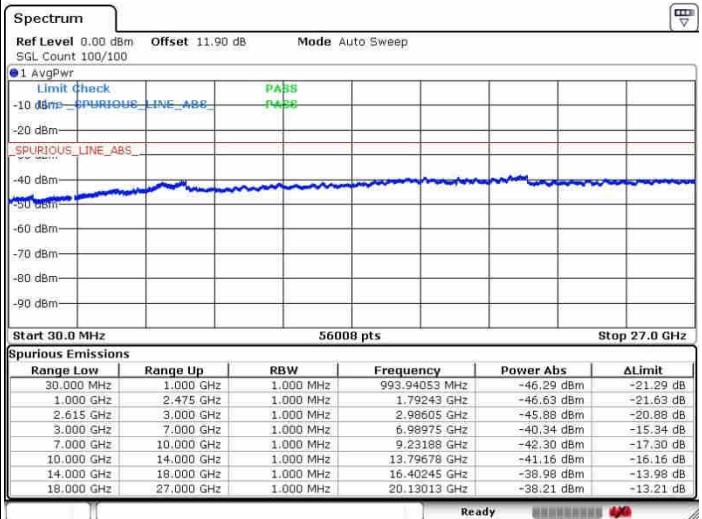
64QAM

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



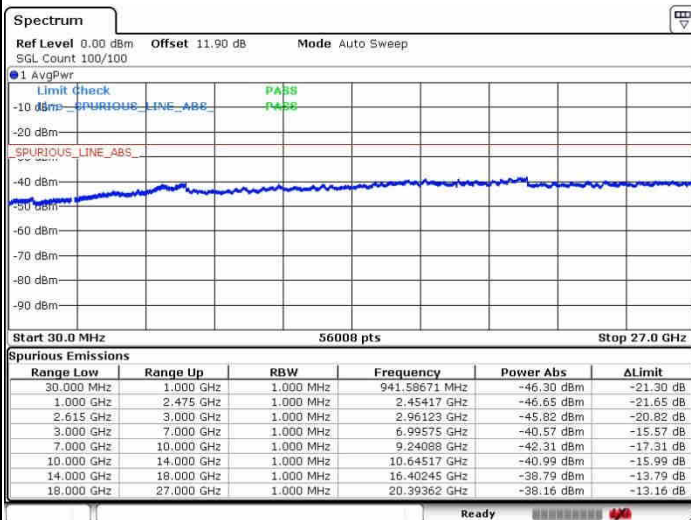
Date: 28.SEP.2017 09:11:07



Date: 28.SEP.2017 09:12:20

Middle Channel / FullIRB

N/A



Date: 28.SEP.2017 09:08:30

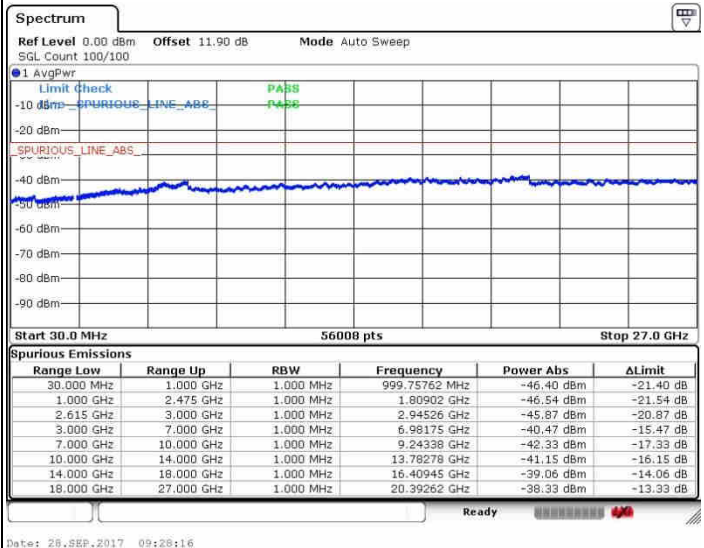
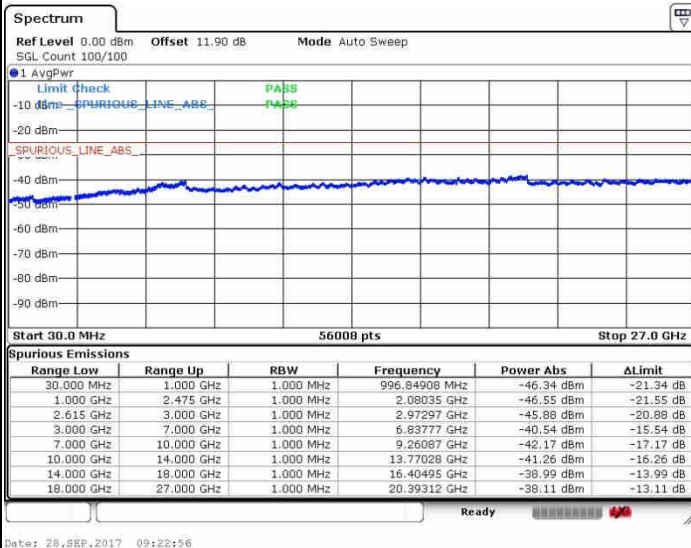


LTE Band 7 / 20MHz+20MHz

64QAM

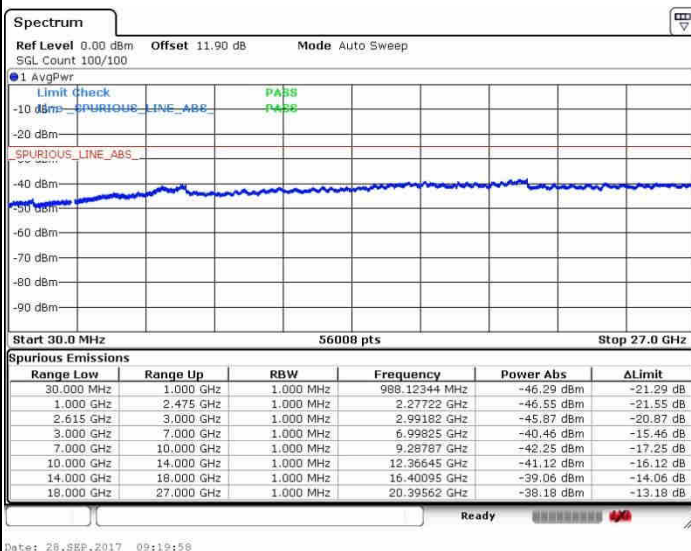
Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



Highest Channel / FullIRB

N/A

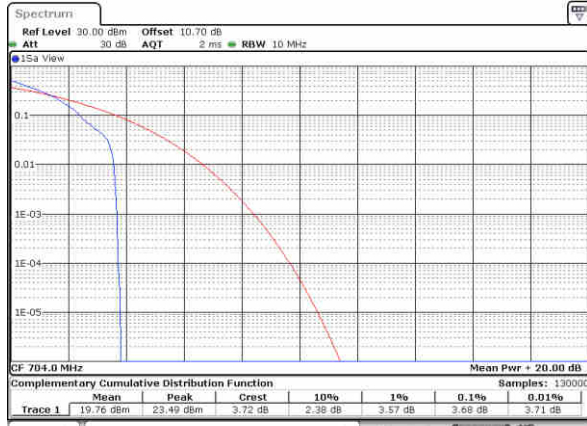




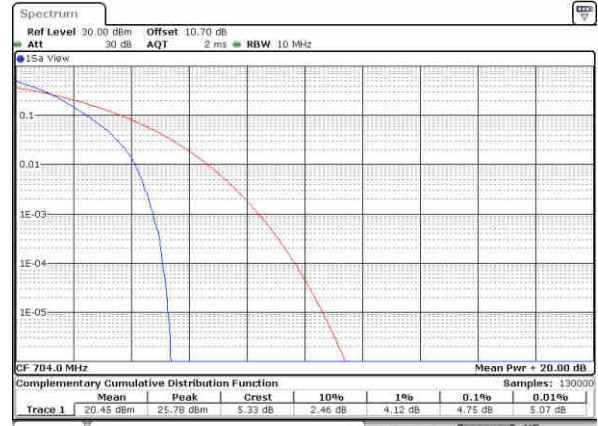
LTE Band 12

Peak-to-Average Ratio

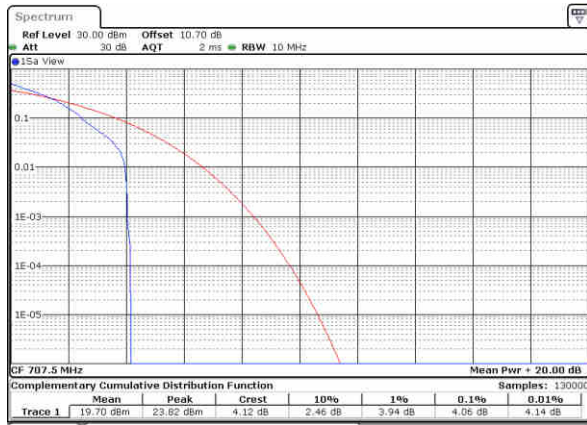
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.68	4.75	4.58	5.77	PASS
Middle CH	4.06	5.16	4.84	6.03	
Highest CH	4.46	5.1	5.39	6.03	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.58	5.77	-	-	PASS
Middle CH	4.84	6.03	-	-	
Highest CH	5.39	6.03	-	-	

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


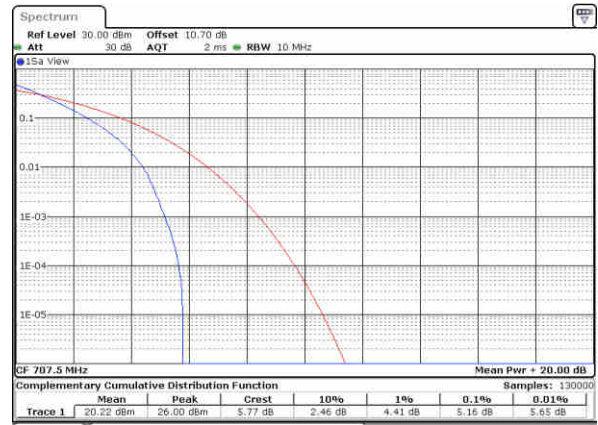
Date: 2.OCT.2017 00:00:07

Lowest Channel / Full RB


Date: 1.OCT.2017 23:59:59

Middle Channel / 1RB


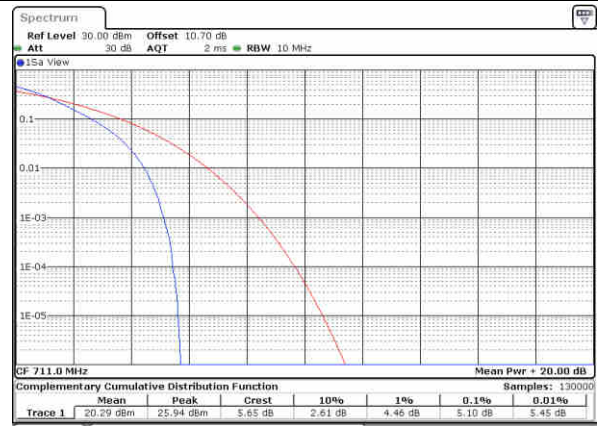
Date: 2.OCT.2017 00:00:16

Middle Channel / Full RB


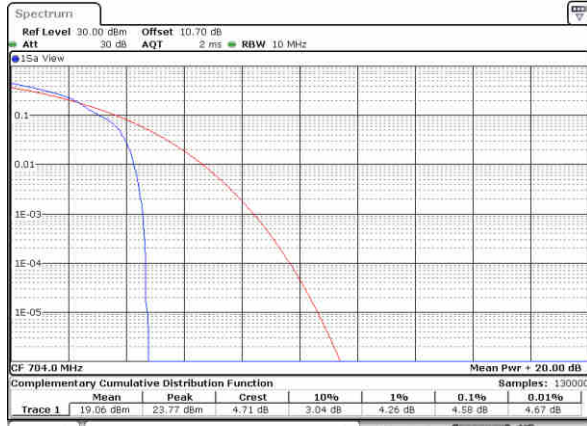
Date: 2.OCT.2017 00:00:49

Highest Channel / 1RB

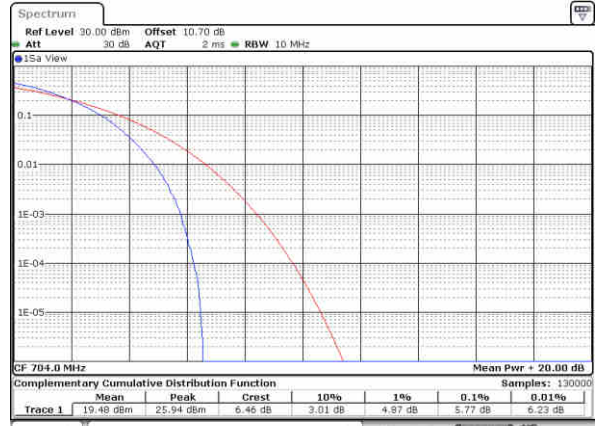

Date: 2.OCT.2017 00:01:44

Highest Channel / Full RB


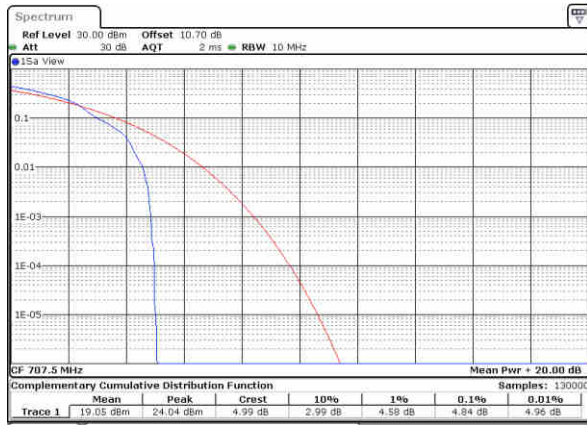
Date: 2.OCT.2017 00:00:57

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


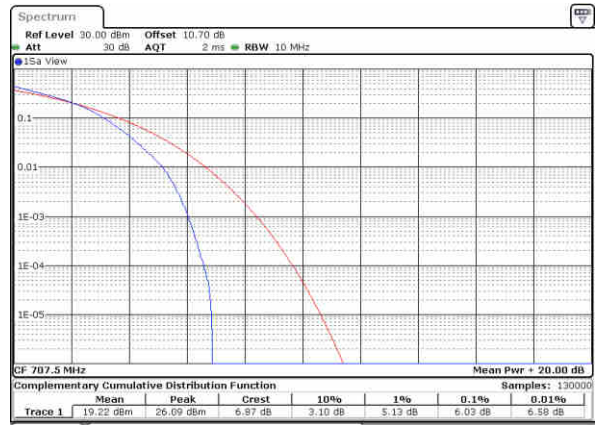
Date: 1.OCT.2017 23:58:15

Lowest Channel / Full RB


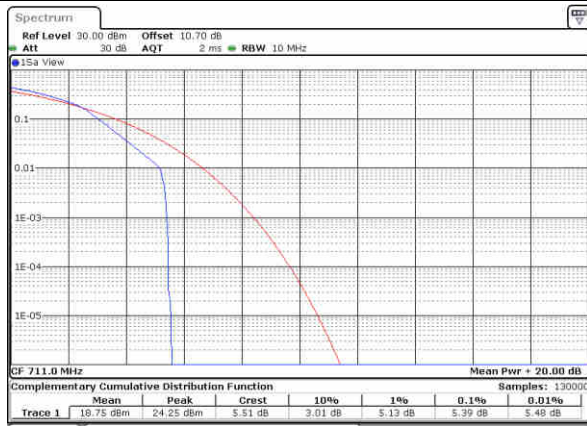
Date: 1.OCT.2017 23:58:05

Middle Channel / 1RB


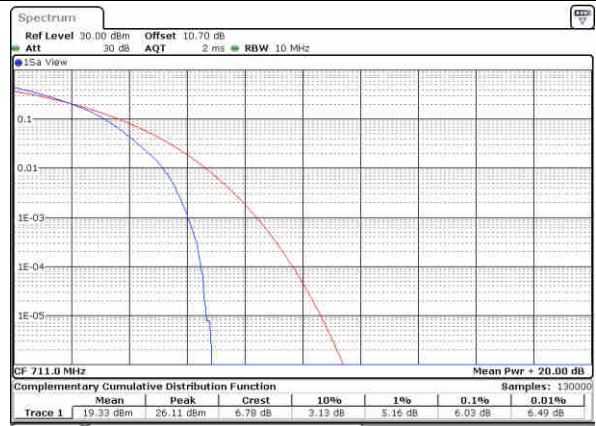
Date: 1.OCT.2017 23:59:22

Middle Channel / Full RB


Date: 1.OCT.2017 23:59:30

Highest Channel / 1RB


Date: 1.OCT.2017 23:59:50

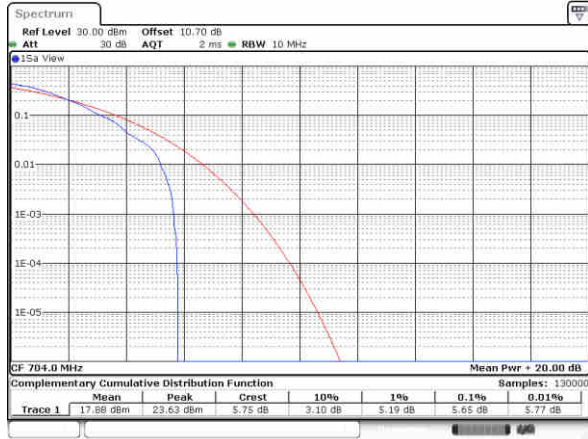
Highest Channel / Full RB


Date: 1.OCT.2017 23:59:41

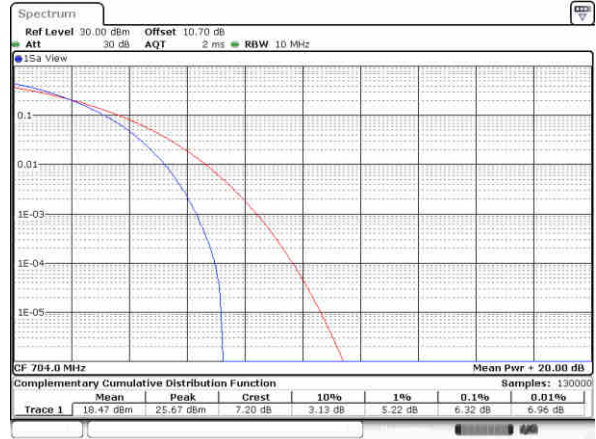


LTE Band 12 / 10MHz / 64QAM

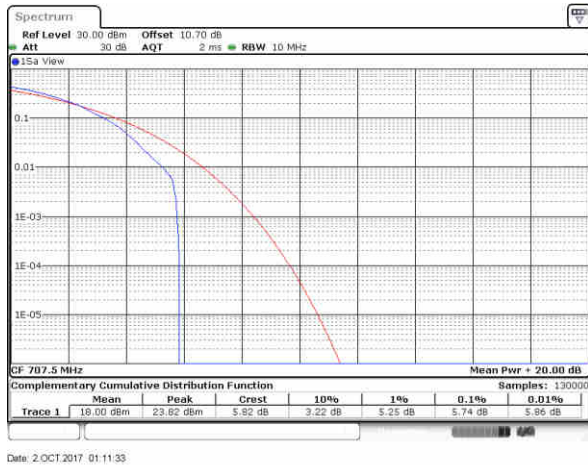
Lowest Channel / 1RB



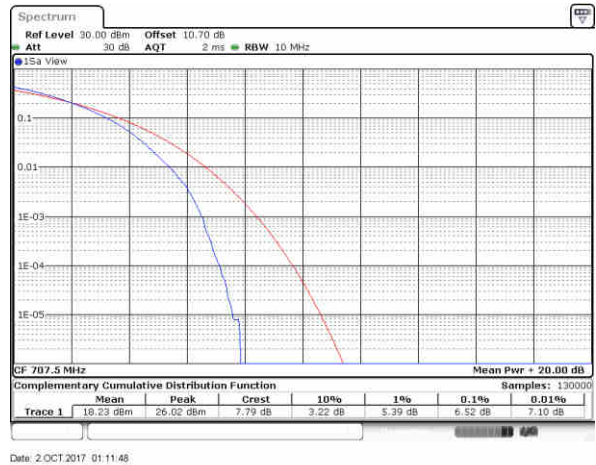
Lowest Channel / Full RB



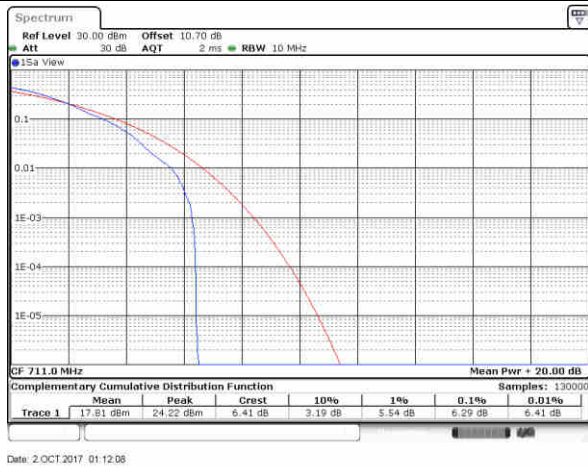
Middle Channel / 1RB



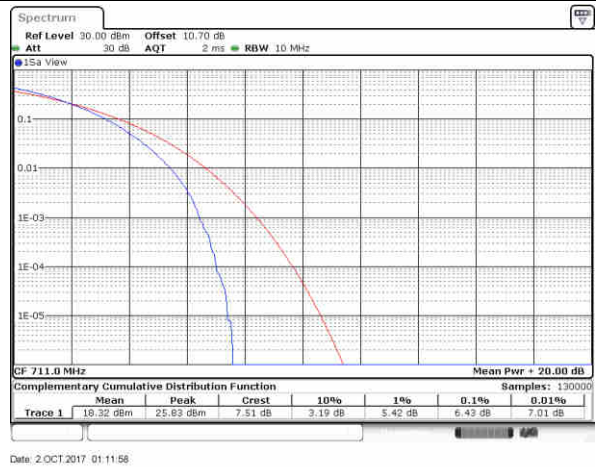
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



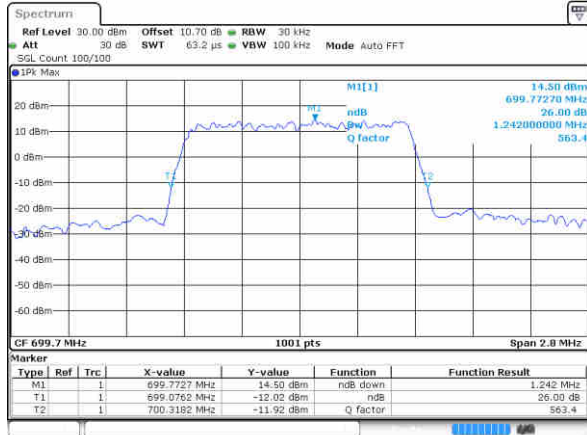
**26dB Bandwidth**

Mode	LTE Band 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	1.242	1.242	3.009	2.985	4.895	4.865	9.59	9.67	-	-	-	-
Middle CH	1.231	1.231	3.057	2.997	4.835	4.915	9.67	9.69	-	-	-	-
Highest CH	1.231	1.222	3.021	3.009	4.845	4.895	9.81	9.93	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.21	-	3.04	-	4.92	-	9.81	-	-	-	-	-
Middle CH	1.22	-	3.01	-	4.99	-	9.69	-	-	-	-	-
Highest CH	1.22	-	2.98	-	4.86	-	9.93	-	-	-	-	-



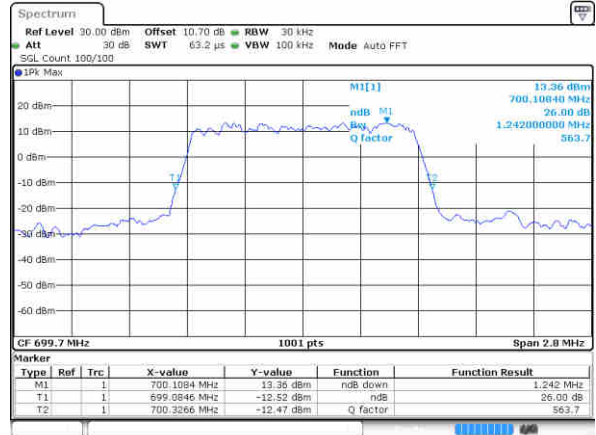
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



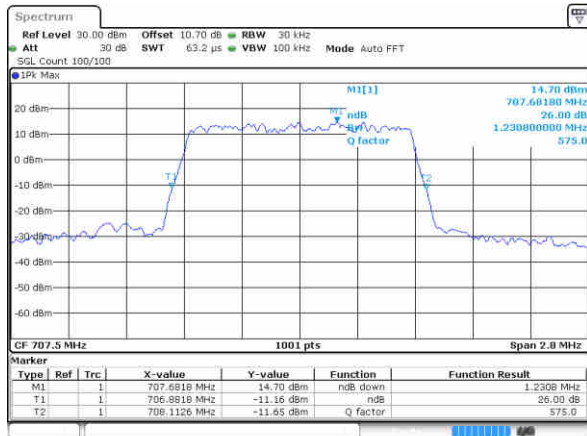
Date: 1.OCT.2017 22:12:48

Lowest Channel / 1.4MHz / 16QAM



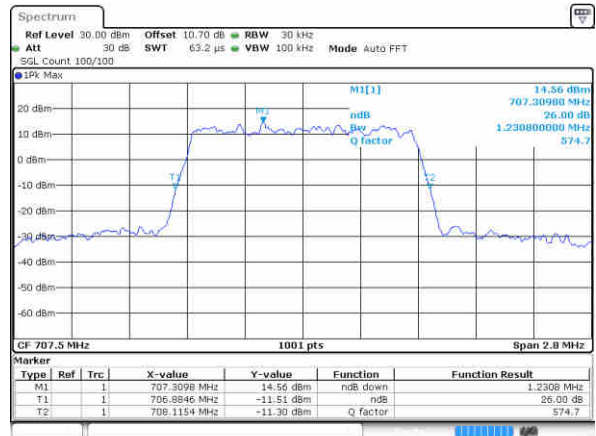
Date: 1.OCT.2017 22:12:38

Middle Channel / 1.4MHz / QPSK



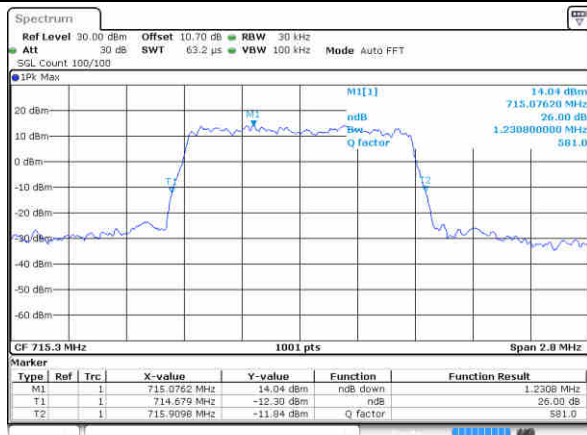
Date: 1.OCT.2017 22:19:40

Middle Channel / 1.4MHz / 16QAM



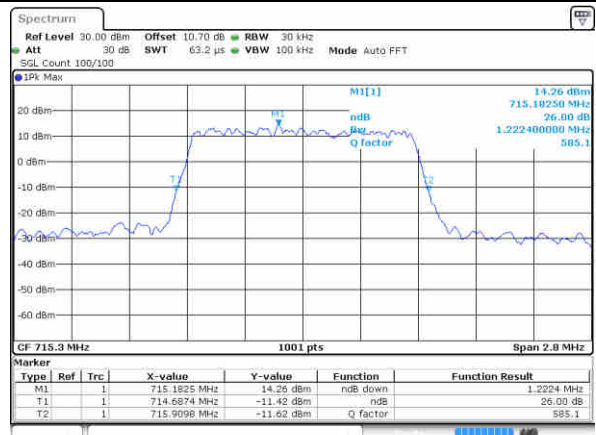
Date: 1.OCT.2017 22:19:50

Highest Channel / 1.4MHz / QPSK



Date: 1.OCT.2017 22:22:17

Highest Channel / 1.4MHz / 16QAM

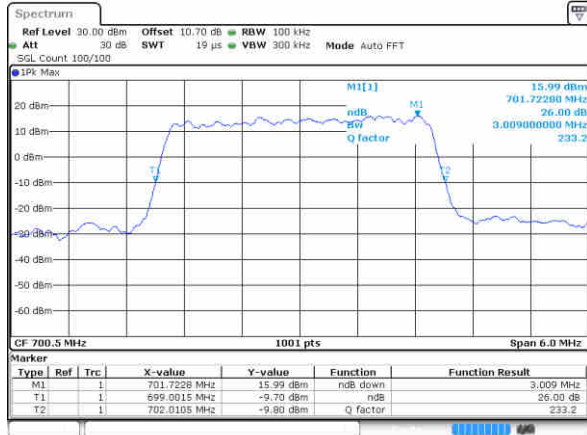


Date: 1.OCT.2017 22:22:57

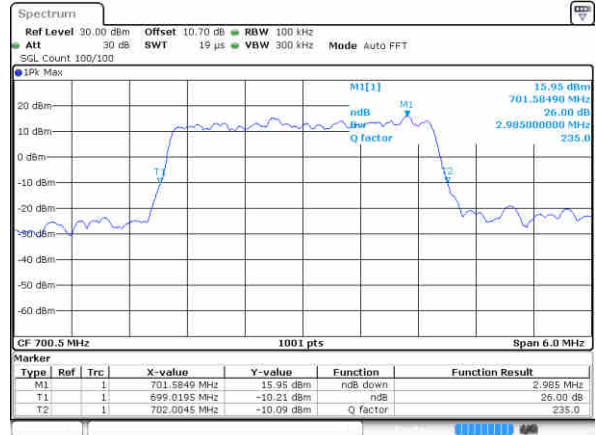


LTE Band 12

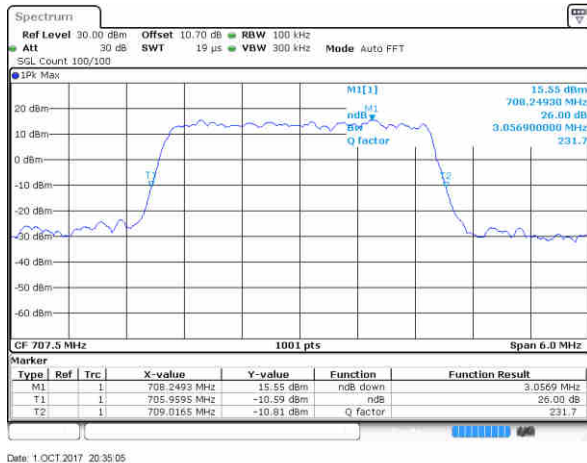
Lowest Channel / 3MHz / QPSK



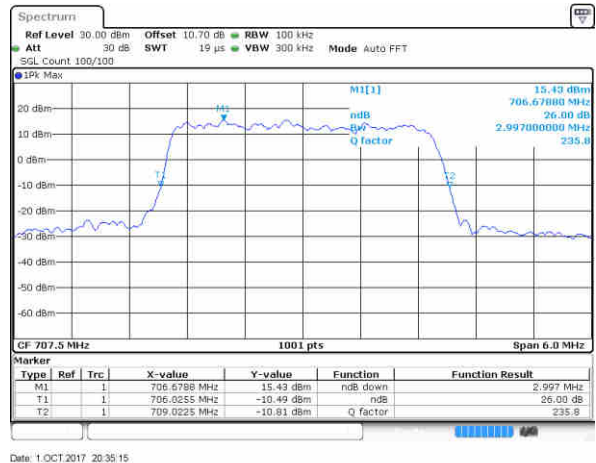
Lowest Channel / 3MHz / 16QAM



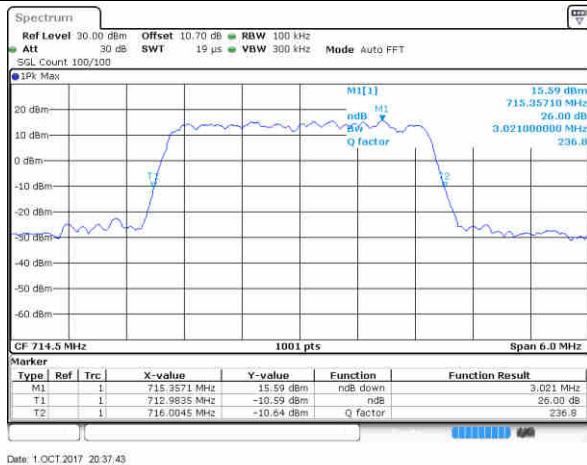
Middle Channel / 3MHz / QPSK



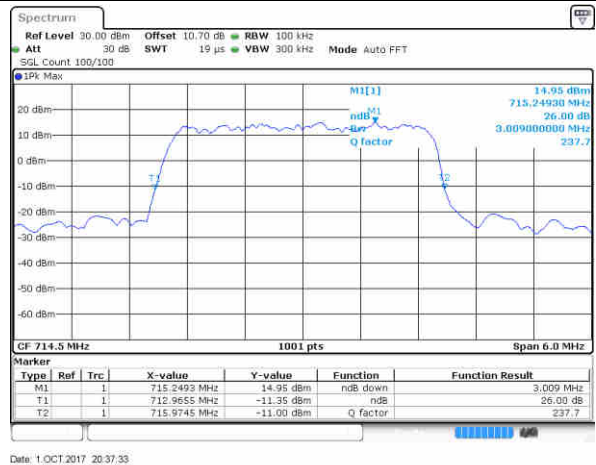
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



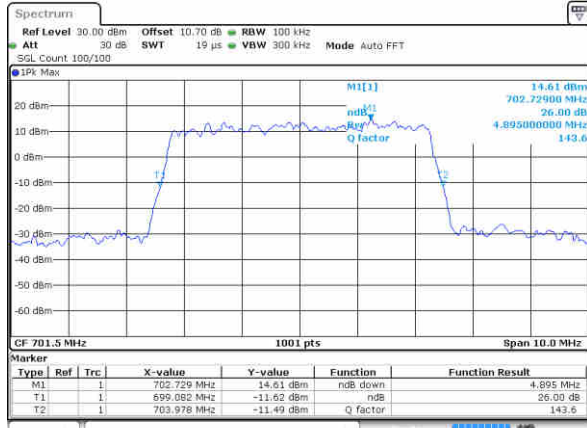
Highest Channel / 3MHz / 16QAM



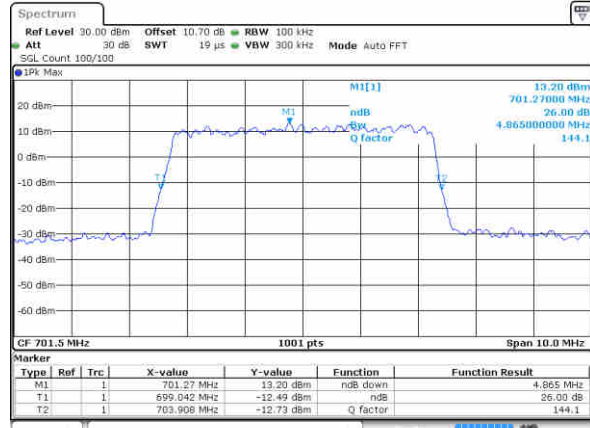


LTE Band 12

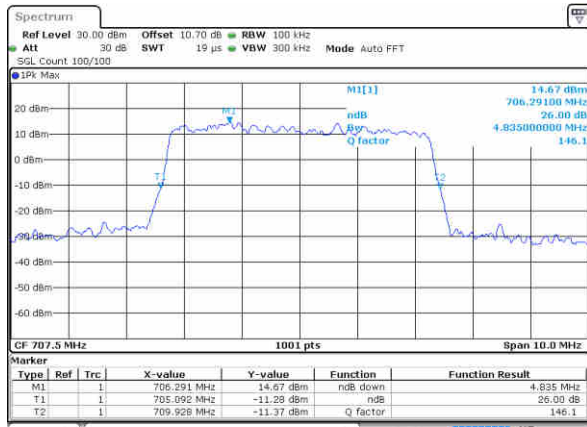
Lowest Channel / 5MHz / QPSK



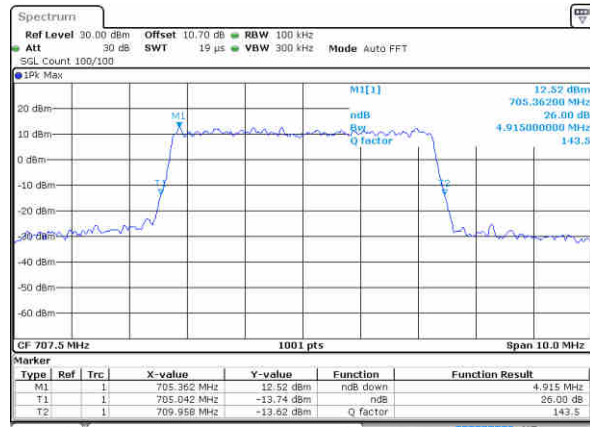
Lowest Channel / 5MHz / 16QAM



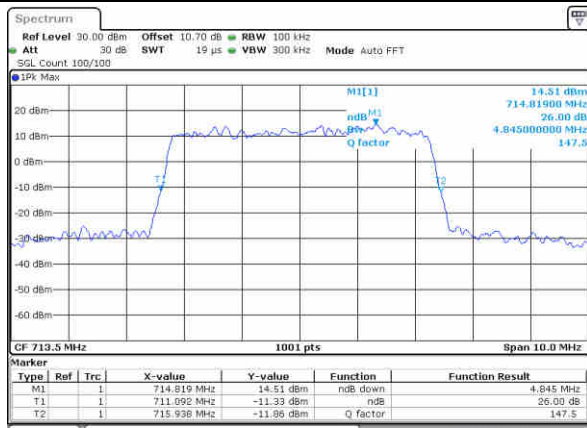
Middle Channel / 5MHz / QPSK



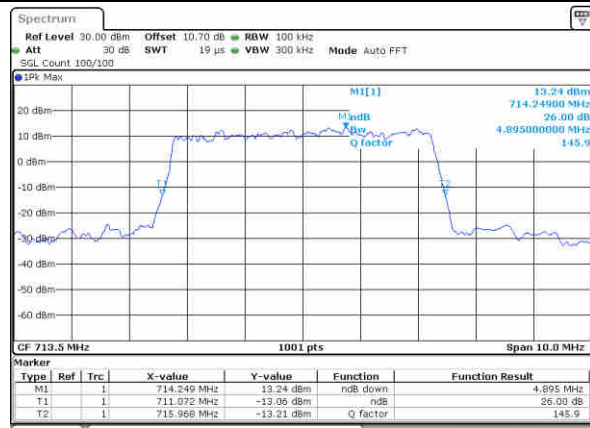
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



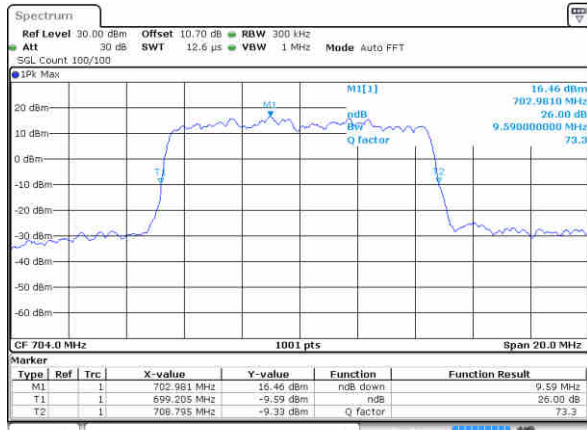
Highest Channel / 5MHz / 16QAM



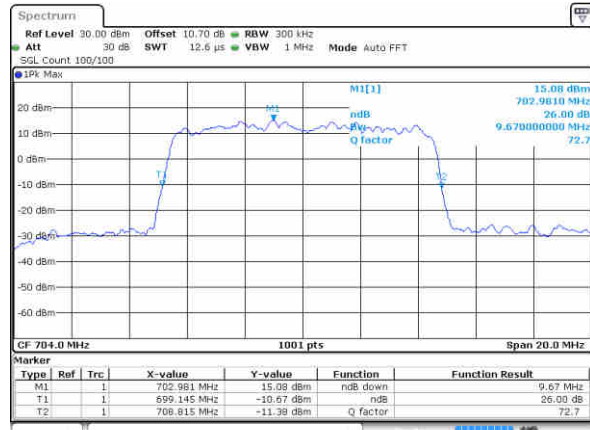


LTE Band 12

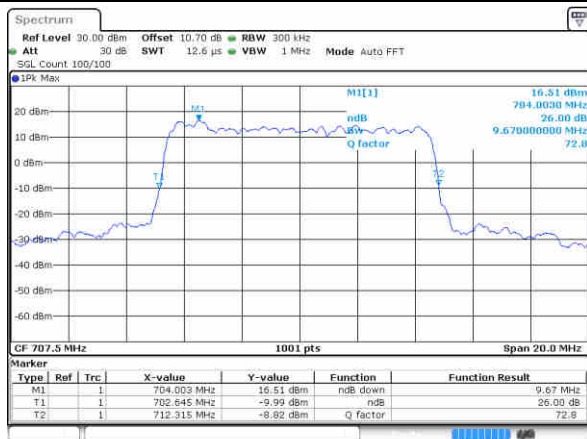
Lowest Channel / 10MHz / QPSK



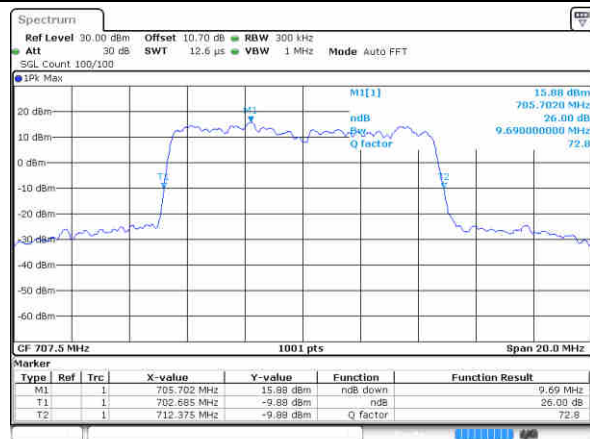
Lowest Channel / 10MHz / 16QAM



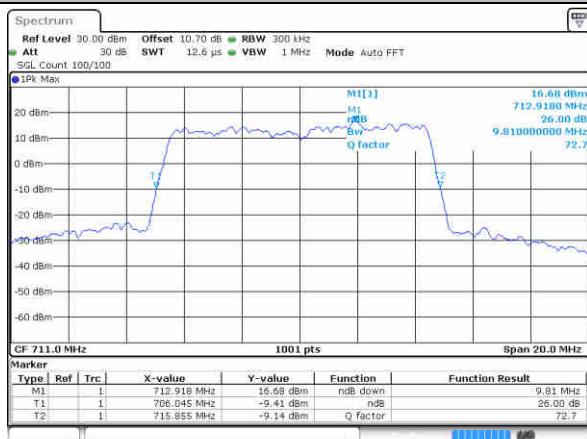
Middle Channel / 10MHz / QPSK



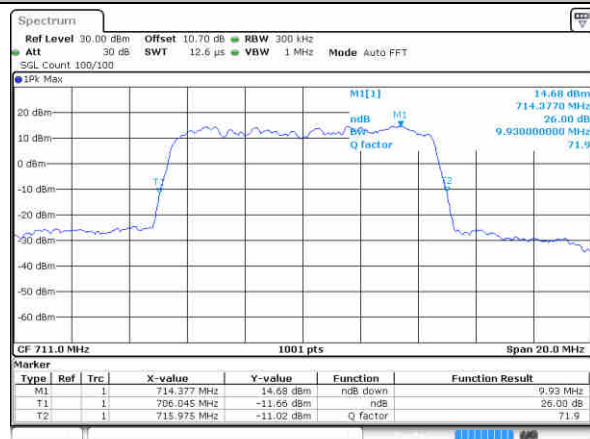
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



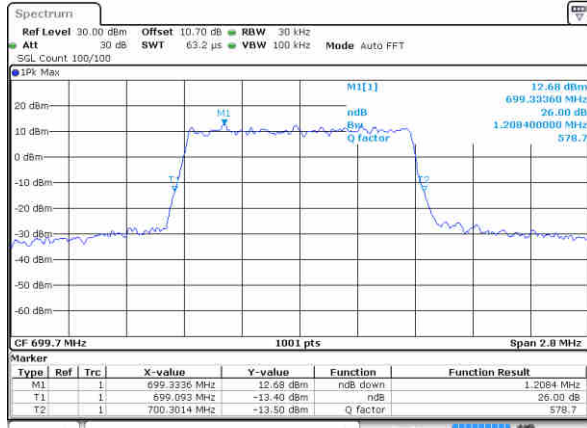
Highest Channel / 10MHz / 16QAM



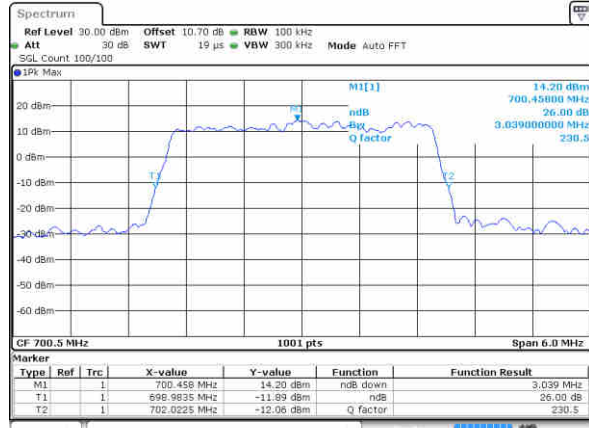


LTE Band 12

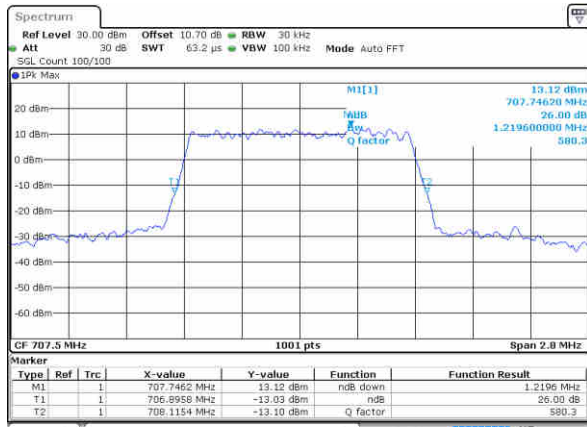
Lowest Channel / 1.4MHz / 64QAM



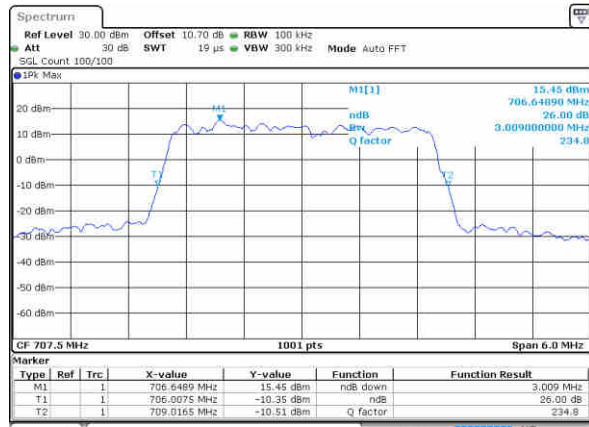
Lowest Channel / 3MHz / 64QAM



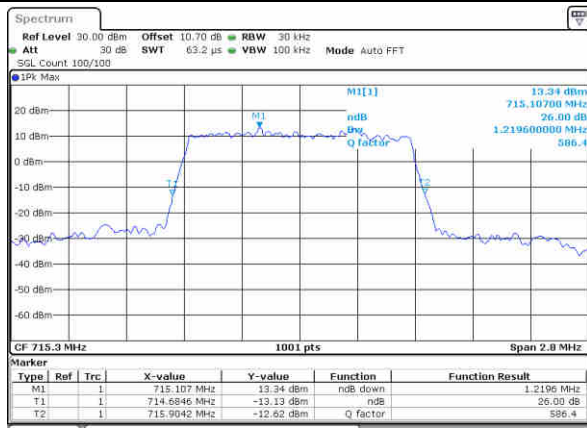
Middle Channel / 1.4MHz / 64QAM



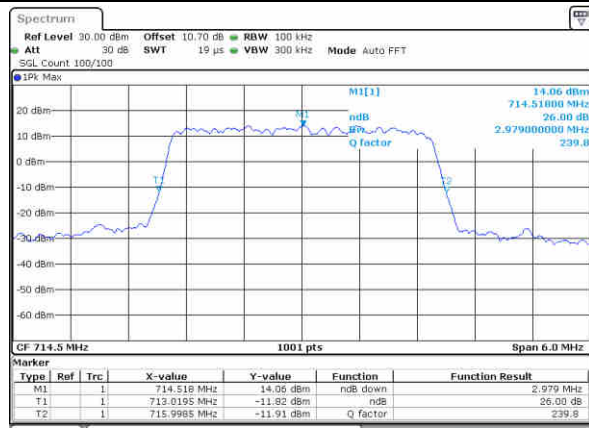
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



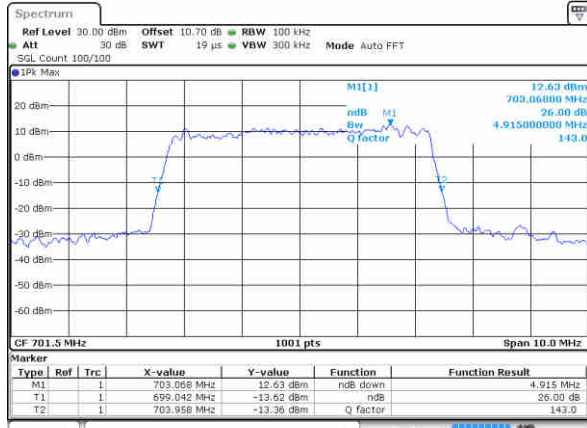
Highest Channel / 3MHz / 64QAM



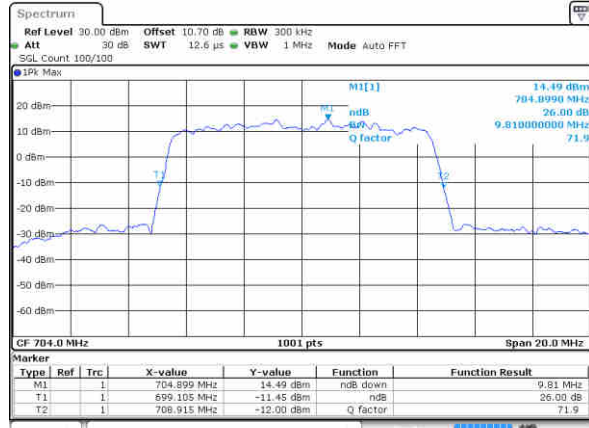


LTE Band 12

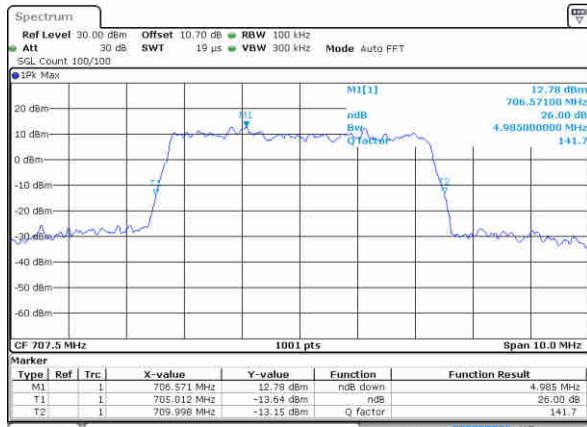
Lowest Channel / 5MHz / 64QAM



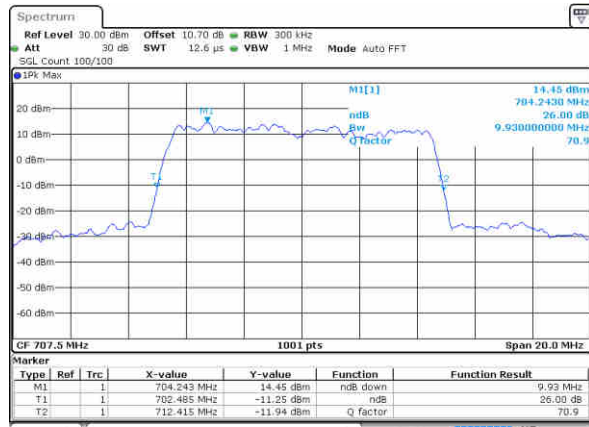
Lowest Channel / 10MHz / 64QAM



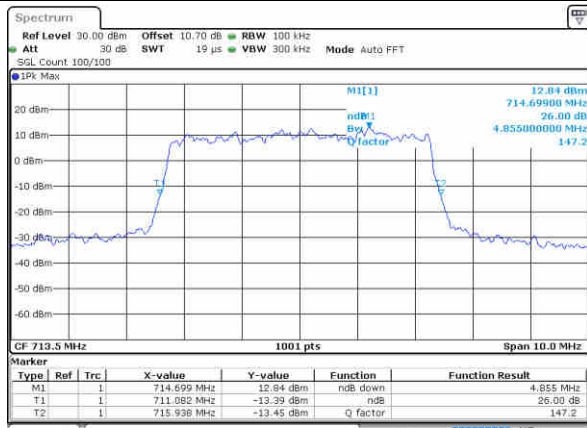
Middle Channel / 5MHz / 64QAM



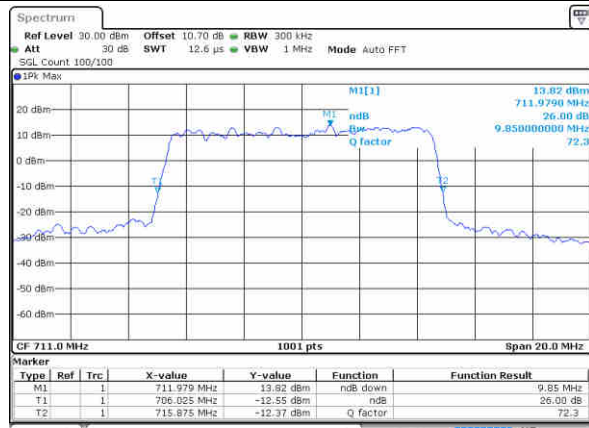
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM



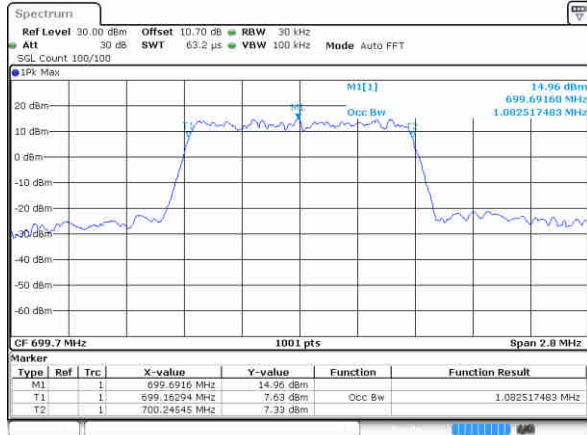
**Occupied Bandwidth**

Mode	LTE Band 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	1.08	1.09	2.72	2.73	4.5	4.48	9.05	8.97	-	-	-	-
Middle CH	1.09	1.1	2.72	2.73	4.52	4.5	9.11	9.09	-	-	-	-
Highest CH	1.09	1.09	2.72	2.72	4.48	4.5	9.01	9.07	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.70	-	4.48	-	8.95	-	-	-	-	-
Middle CH	1.09	-	2.73	-	4.51	-	9.01	-	-	-	-	-
Highest CH	1.09	-	2.73	-	4.5	-	9.01	-	-	-	-	-

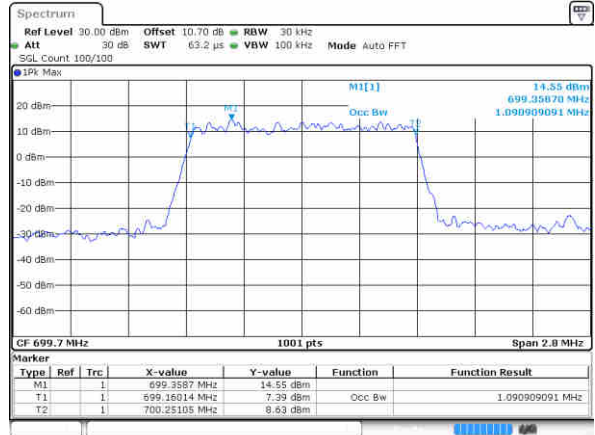


LTE Band 12

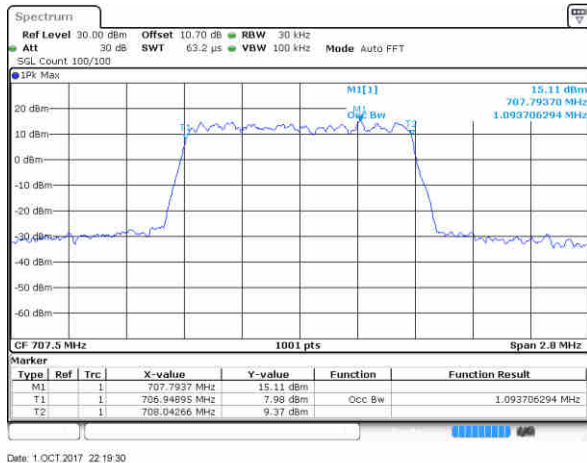
Lowest Channel / 1.4MHz / QPSK



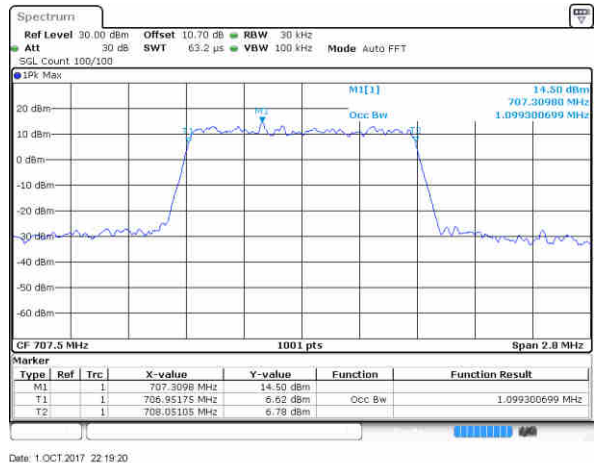
Lowest Channel / 1.4MHz / 16QAM



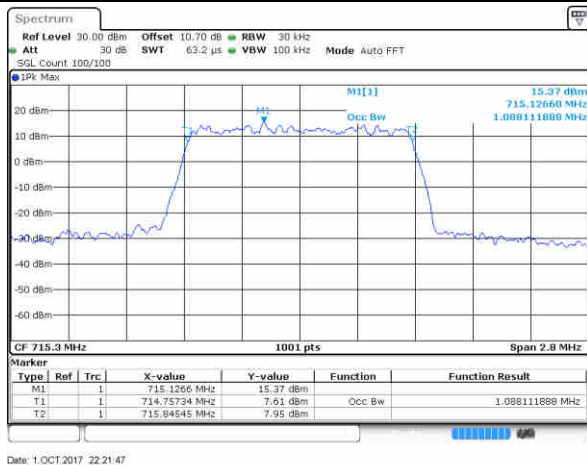
Middle Channel / 1.4MHz / QPSK



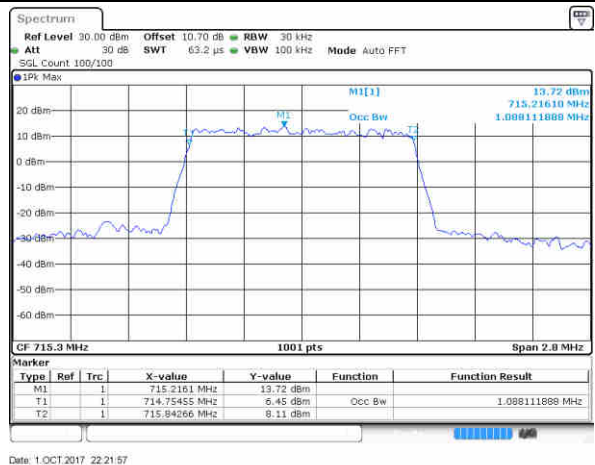
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



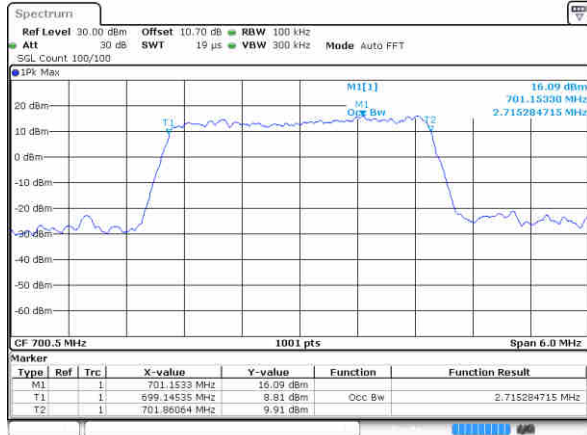
Highest Channel / 1.4MHz / 16QAM





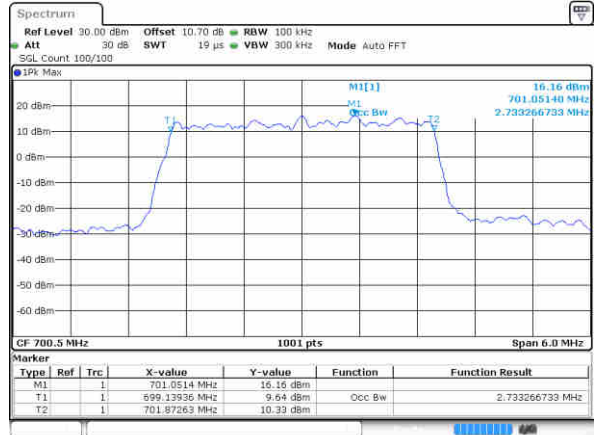
LTE Band 12

Lowest Channel / 3MHz / QPSK



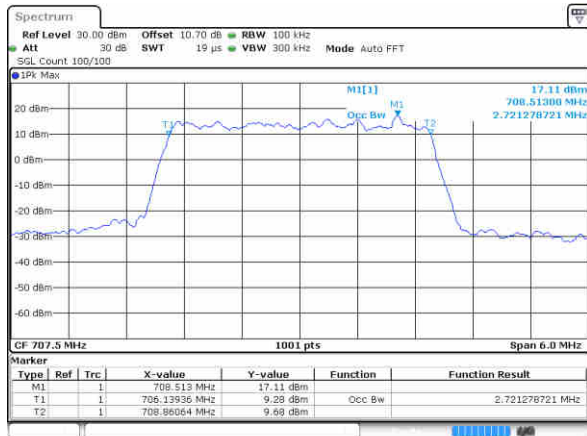
Date: 1.OCT.2017 20:27:43

Lowest Channel / 3MHz / 16QAM



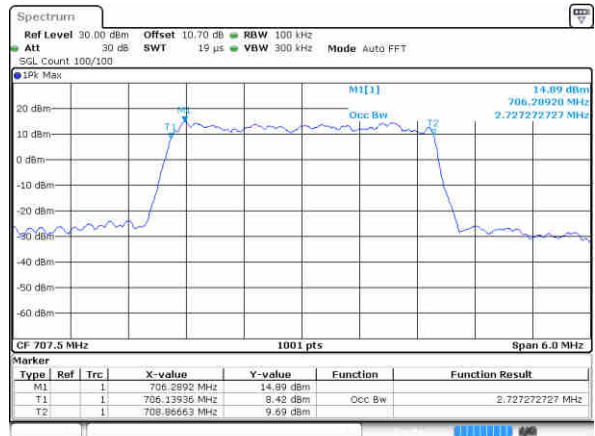
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Middle Channel / 3MHz / QPSK



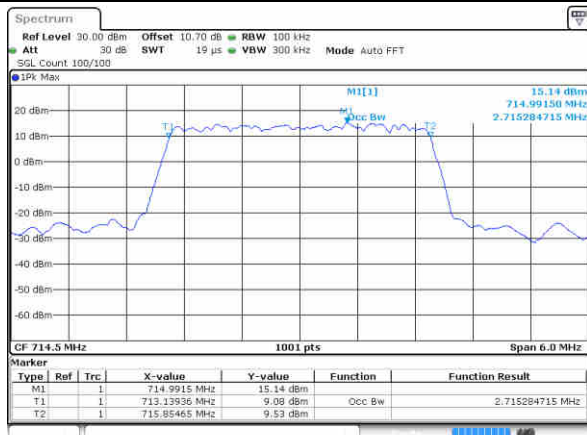
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Middle Channel / 3MHz / 16QAM



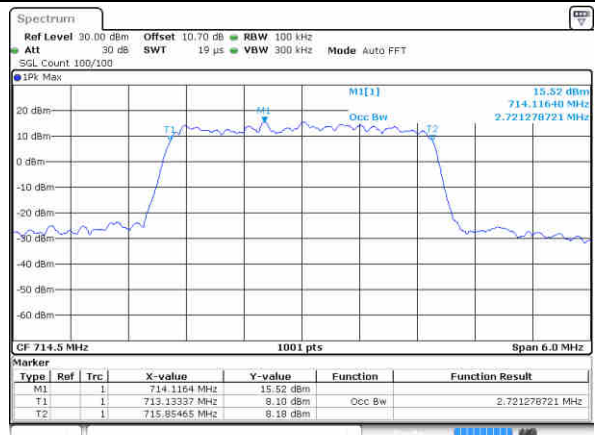
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Highest Channel / 3MHz / QPSK



Date: 1.OCT.2017 20:37:13

Highest Channel / 3MHz / 16QAM

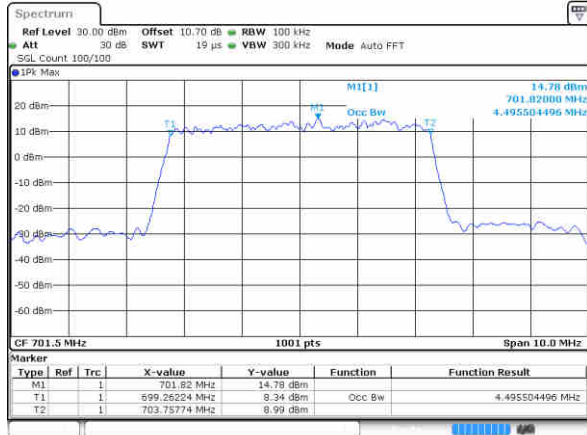


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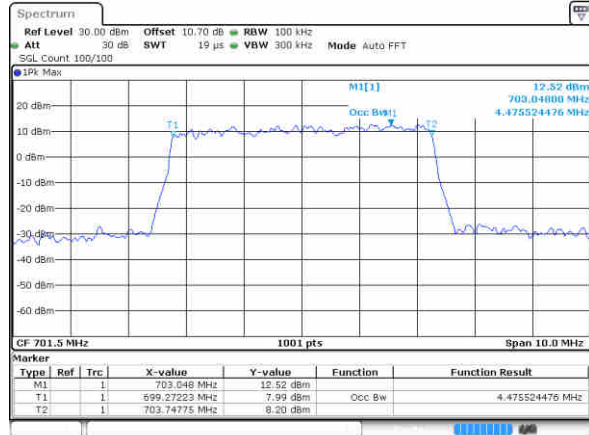
LTE Band 12

Lowest Channel / 5MHz / QPSK



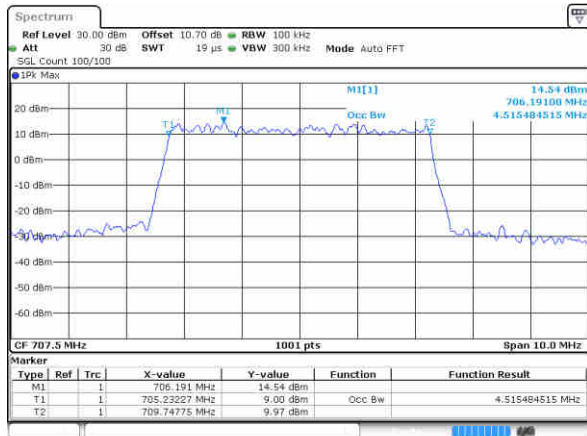
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Lowest Channel / 5MHz / 16QAM



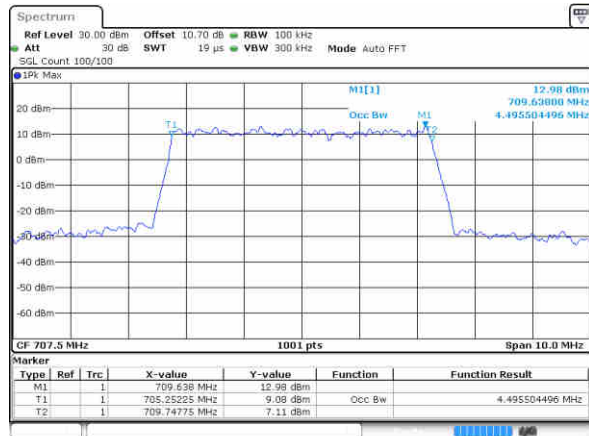
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Middle Channel / 5MHz / QPSK



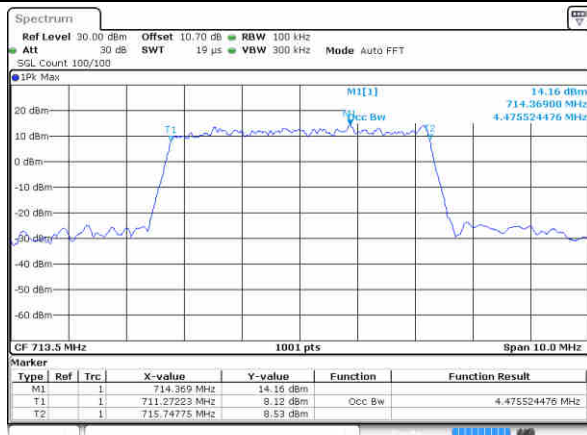
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Middle Channel / 5MHz / 16QAM



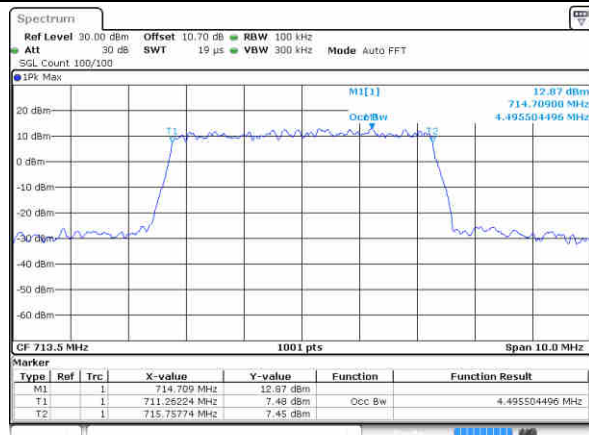
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Highest Channel / 5MHz / QPSK



Date: 1.OCT.2017 20:53:45

Highest Channel / 5MHz / 16QAM

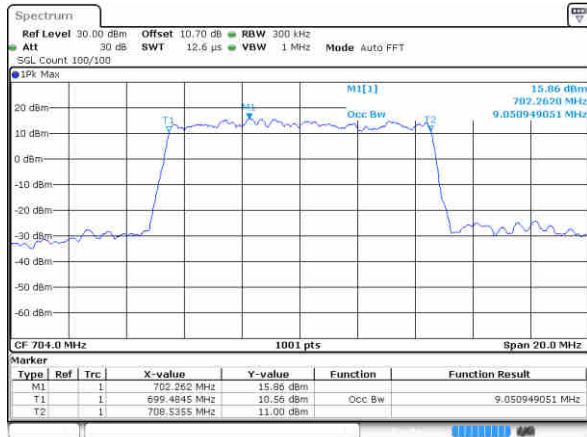


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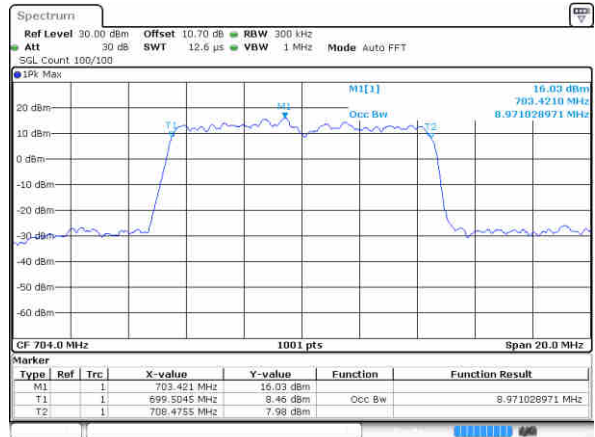


LTE Band 12

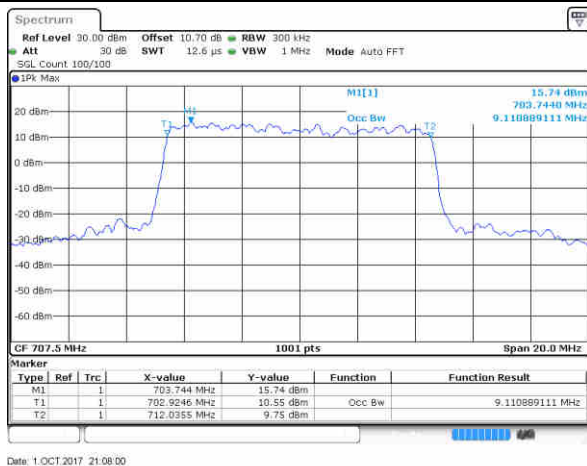
Lowest Channel / 10MHz / QPSK



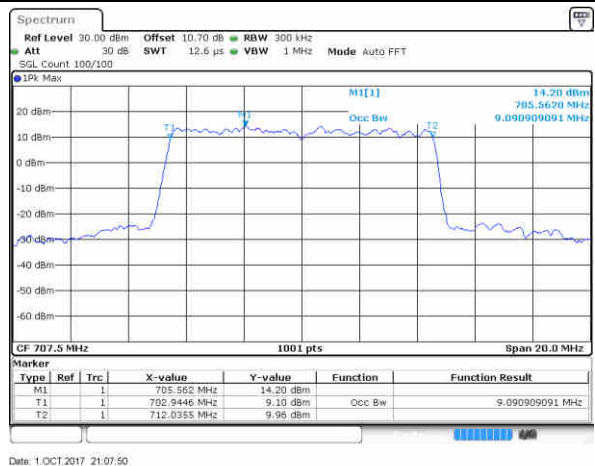
Lowest Channel / 10MHz / 16QAM



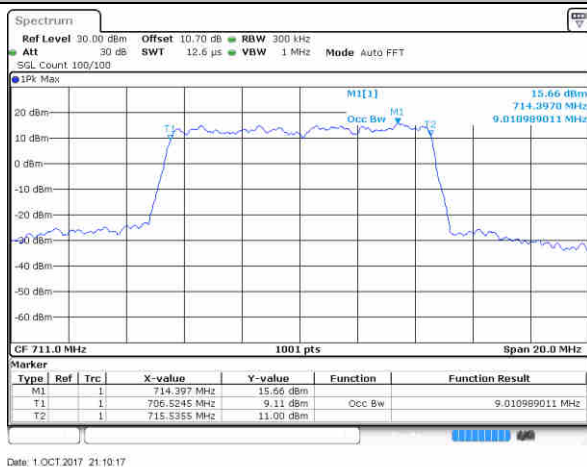
Middle Channel / 10MHz / QPSK



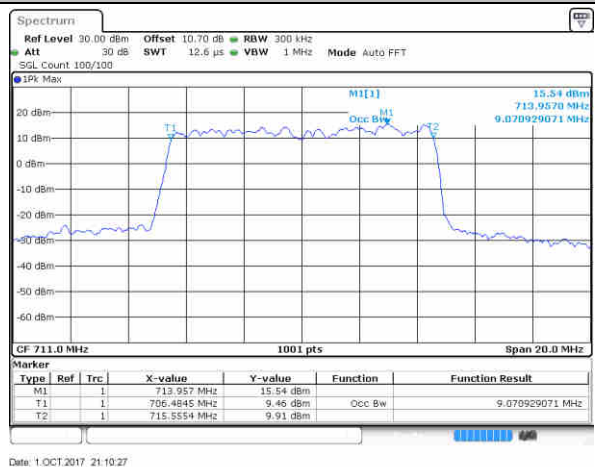
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



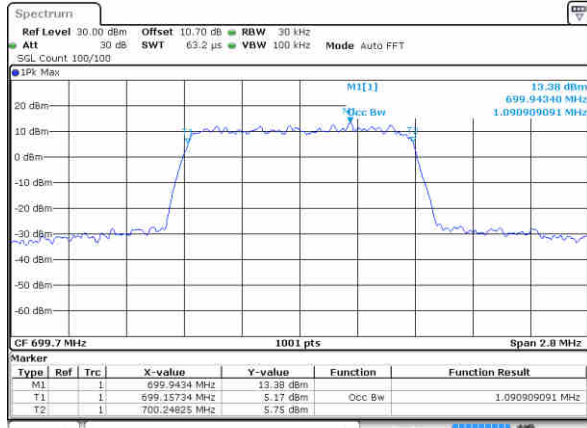
Highest Channel / 10MHz / 16QAM



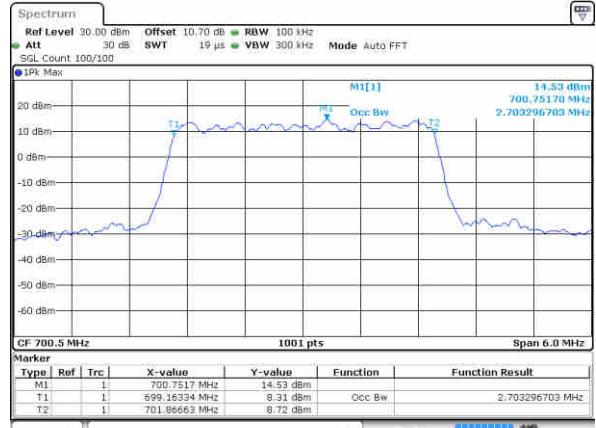


LTE Band 12

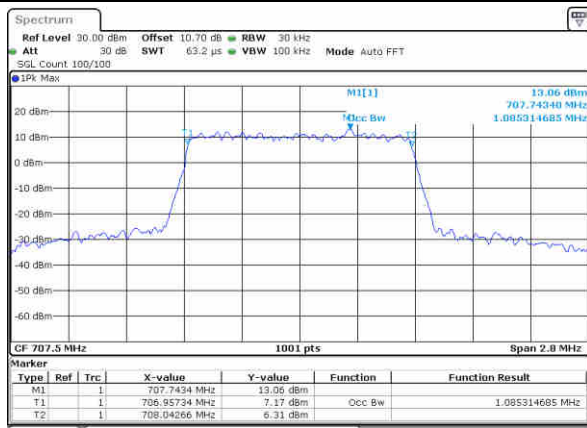
Lowest Channel / 1.4MHz / 64QAM



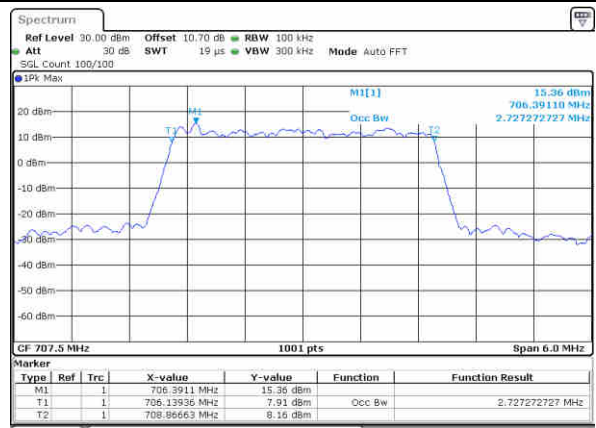
Lowest Channel / 3MHz / 64QAM



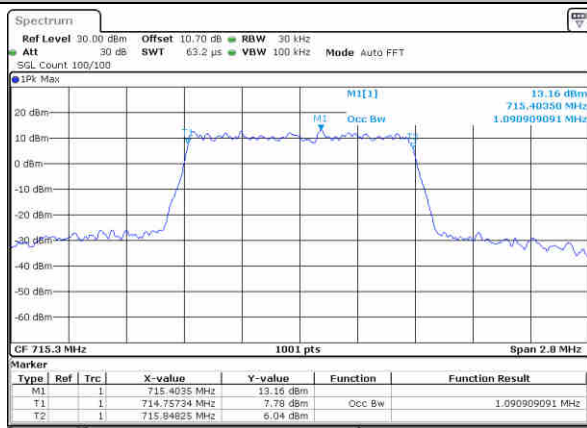
Middle Channel / 1.4MHz / 64QAM



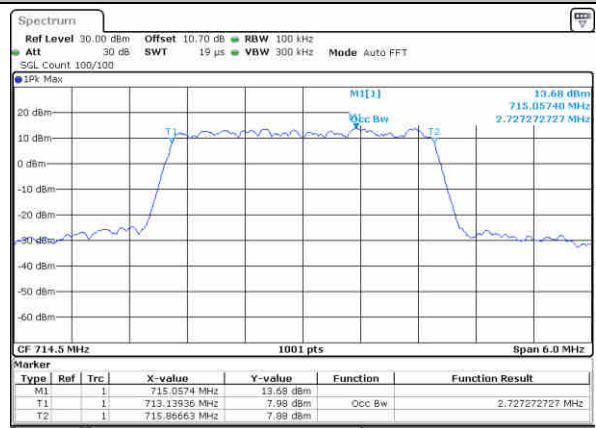
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



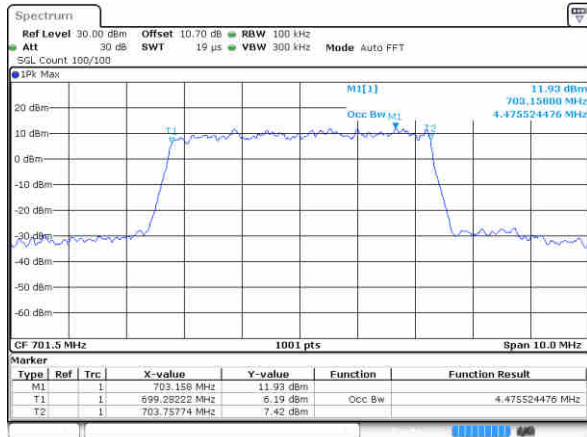
Highest Channel / 3MHz / 64QAM



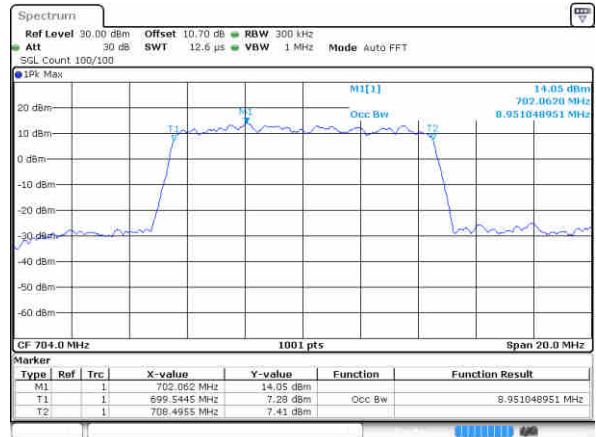


LTE Band 12

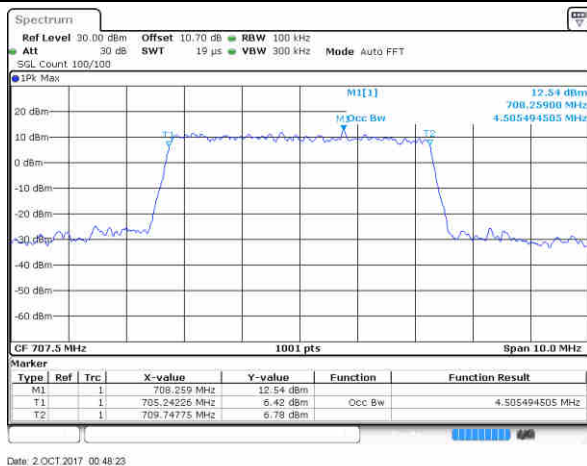
Lowest Channel / 5MHz / 64QAM



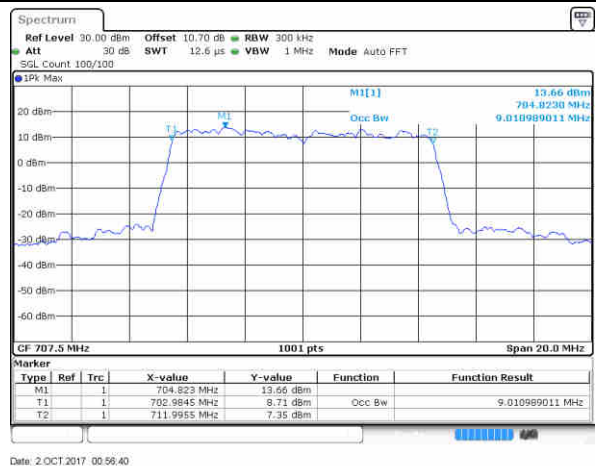
Lowest Channel / 10MHz / 64QAM



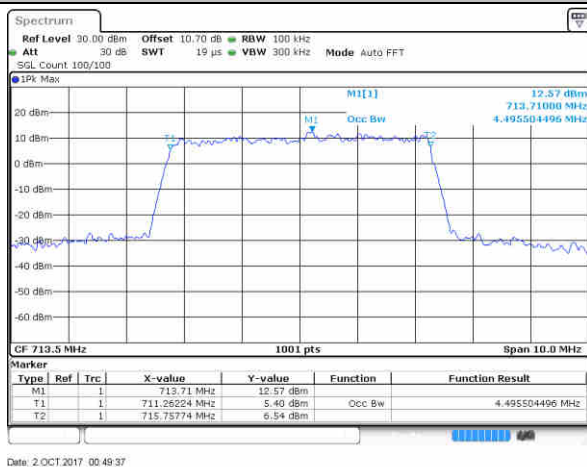
Middle Channel / 5MHz / 64QAM



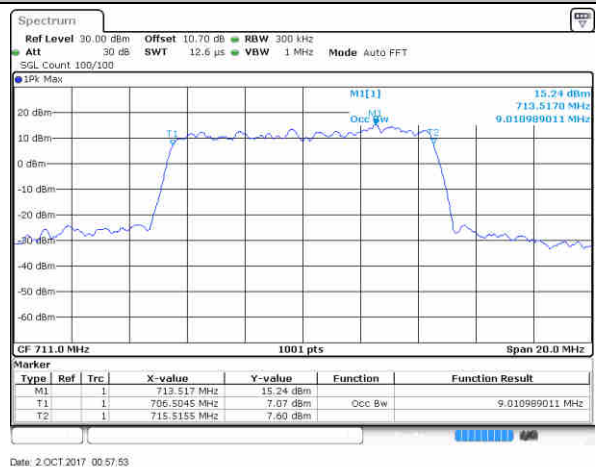
Middle Channel / 10MHz / 64QAM

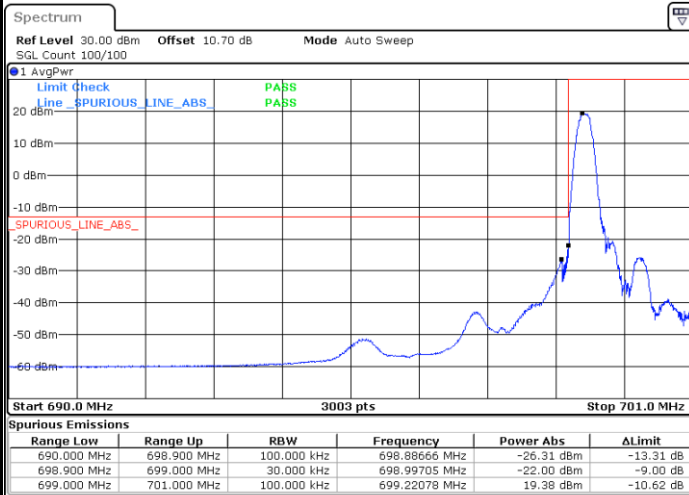
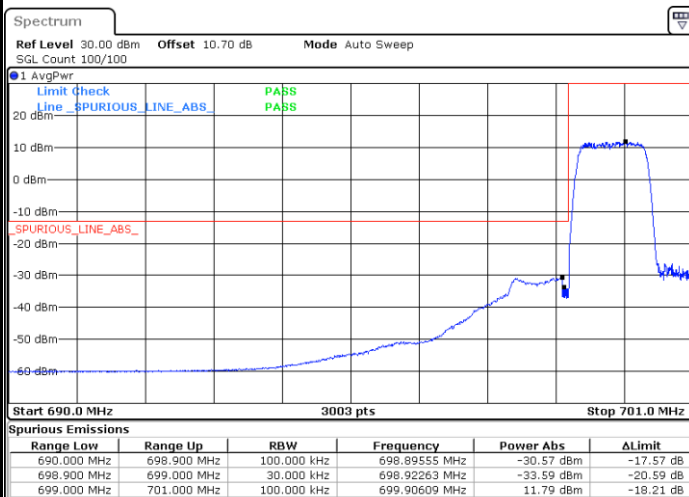


Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

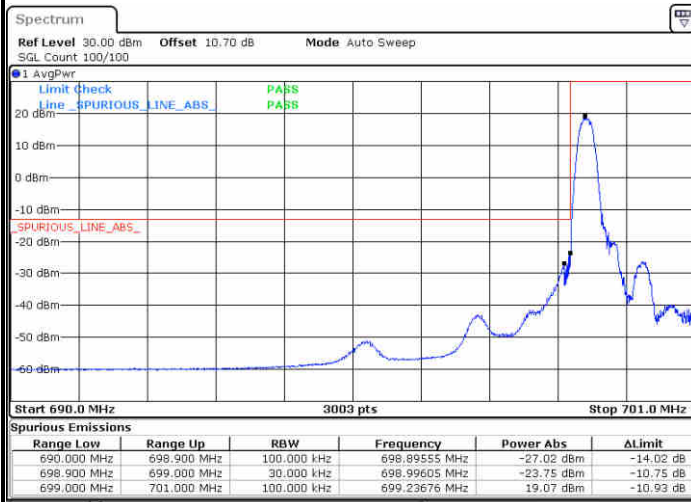


**Conducted Band Edge****LTE Band 12 / 1.4MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**



LTE Band 12 / 1.4MHz / 16QAM

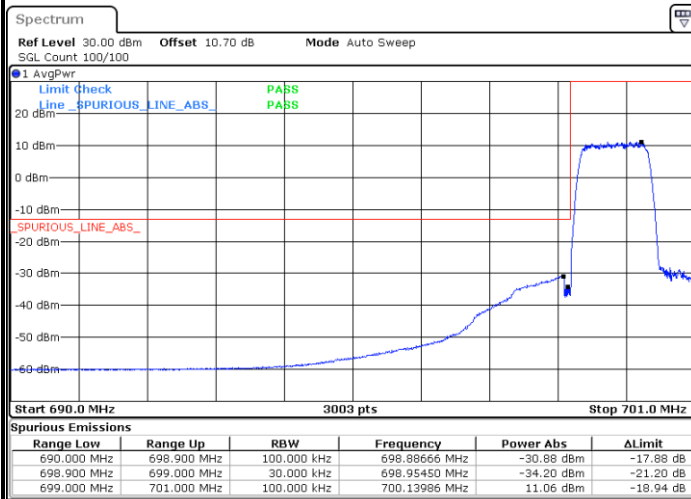
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



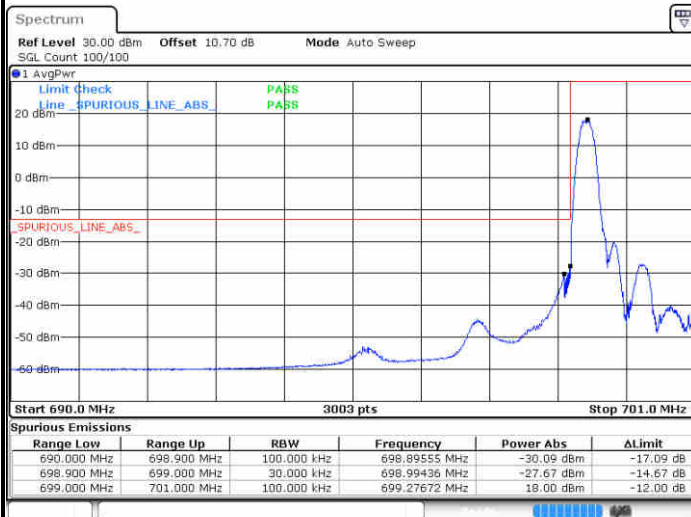
Highest Band Edge / Full RB





LTE Band 12 / 1.4MHz / 64QAM

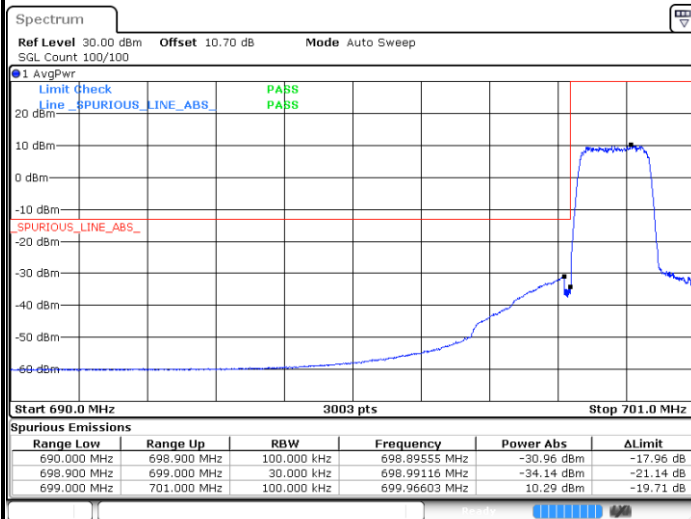
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



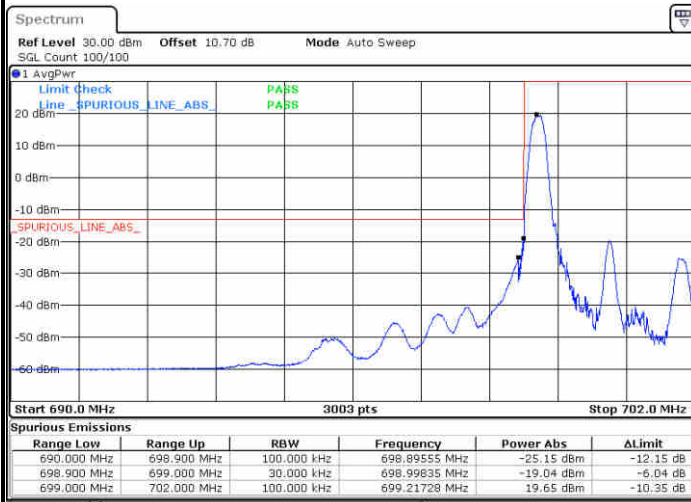
Highest Band Edge / Full RB



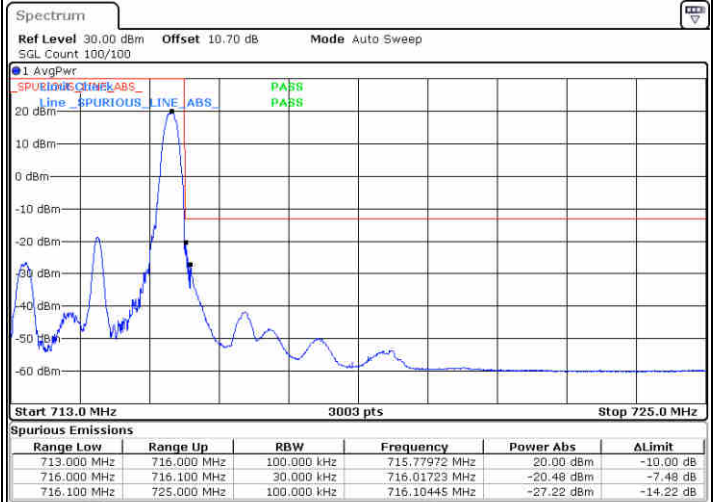


LTE Band 12 / 3MHz / QPSK

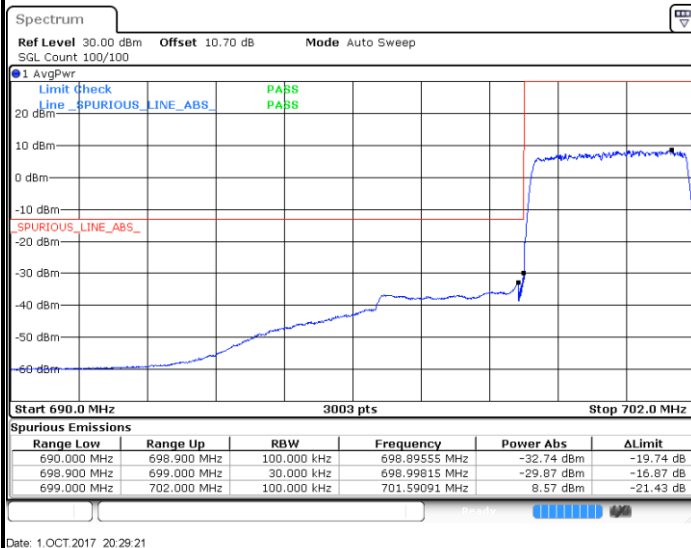
Lowest Band Edge / 1RB



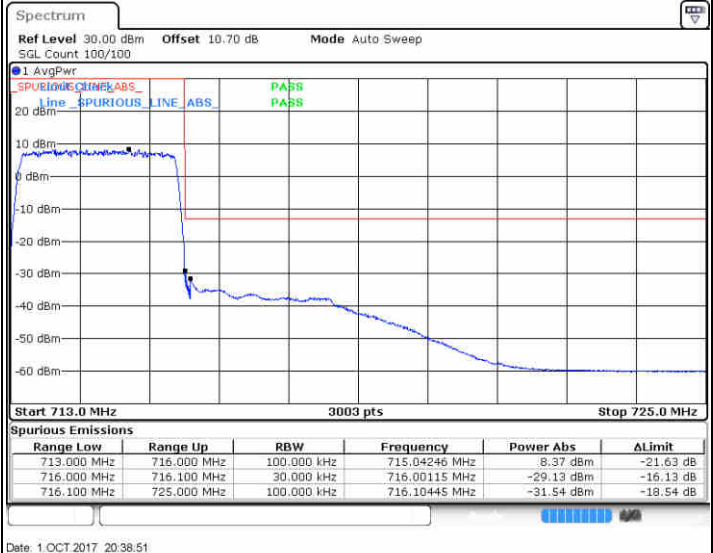
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



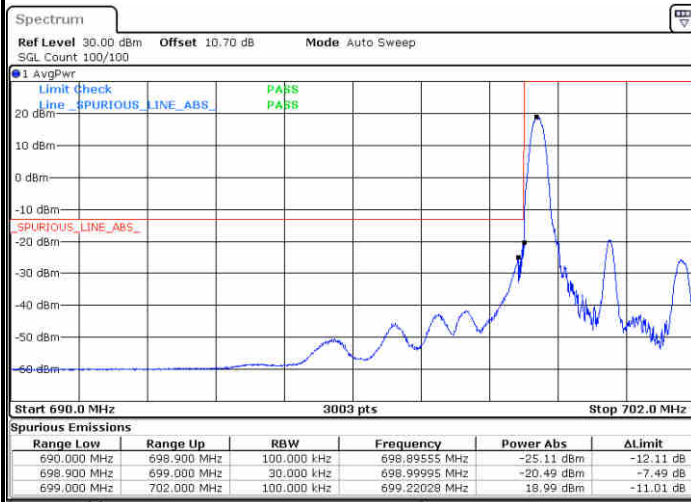
Highest Band Edge / Full RB



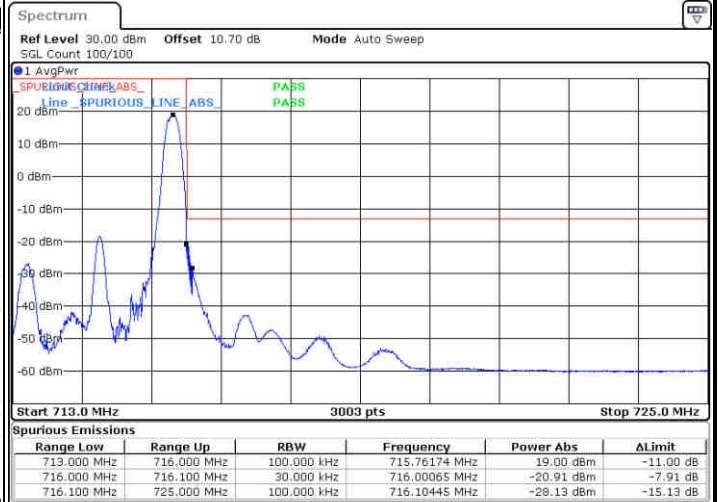


LTE Band 12 / 3MHz / 16QAM

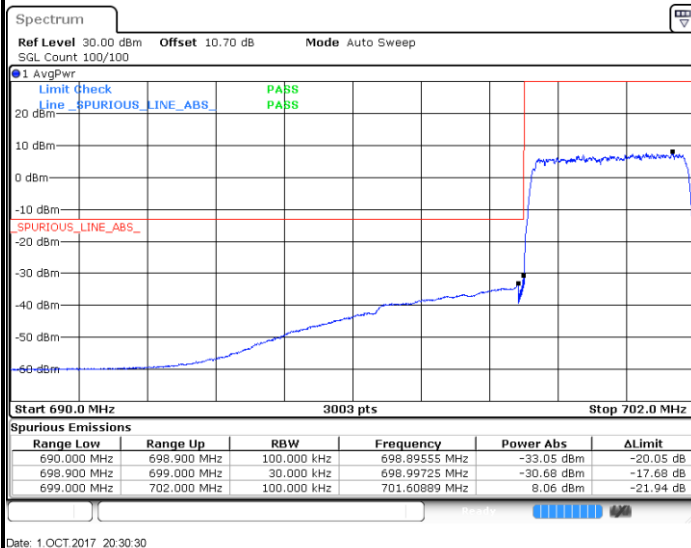
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

