

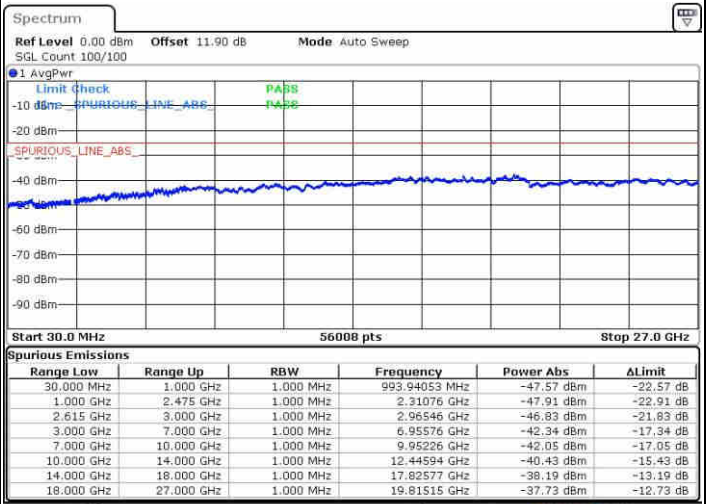
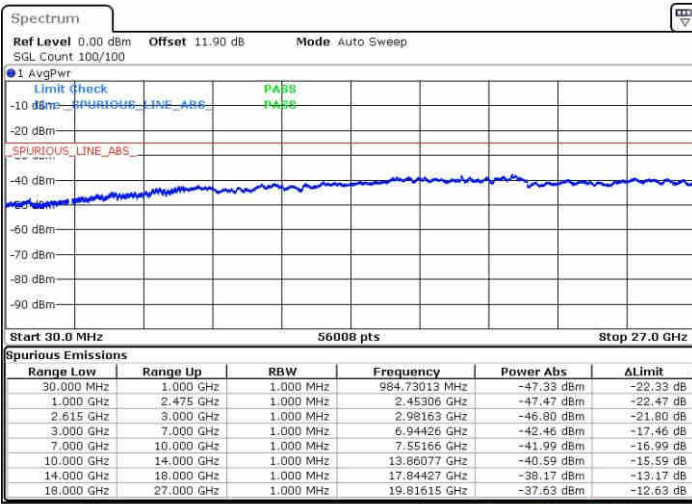


LTE Band 7 / 20MHz+15MHz

16QAM

MiddleChannel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0

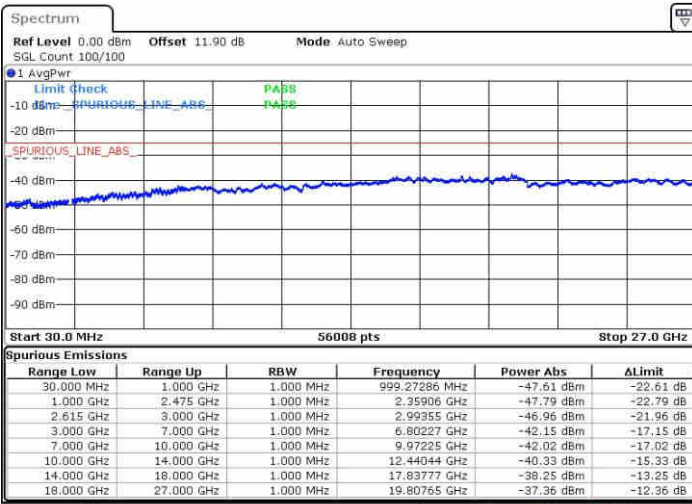


Date: 28 APR 2019 20:49:56

Date: 28 APR 2019 20:52:47

Middle Channel / FullIRB

N/A



Date: 28 APR 2019 20:47:03

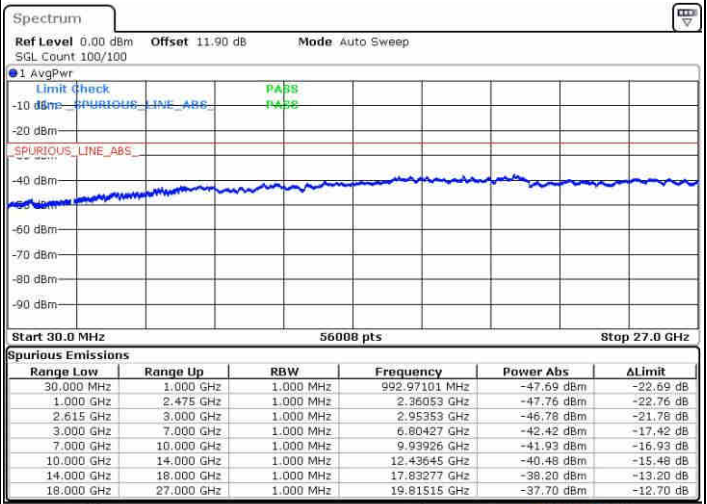
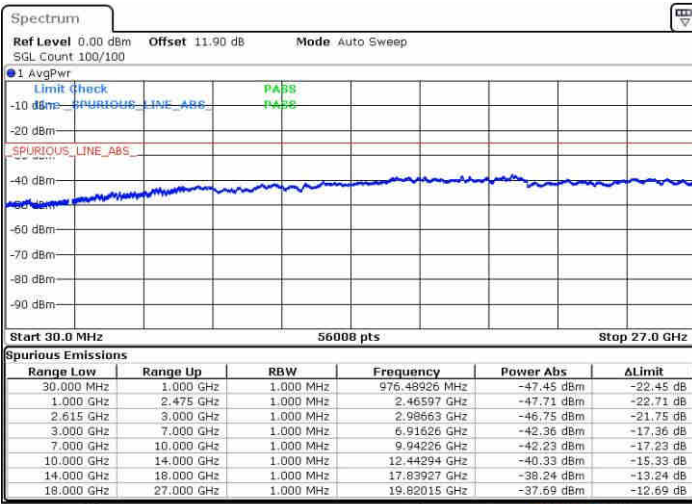


LTE Band 7 / 20MHz+15MHz

16QAM

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0

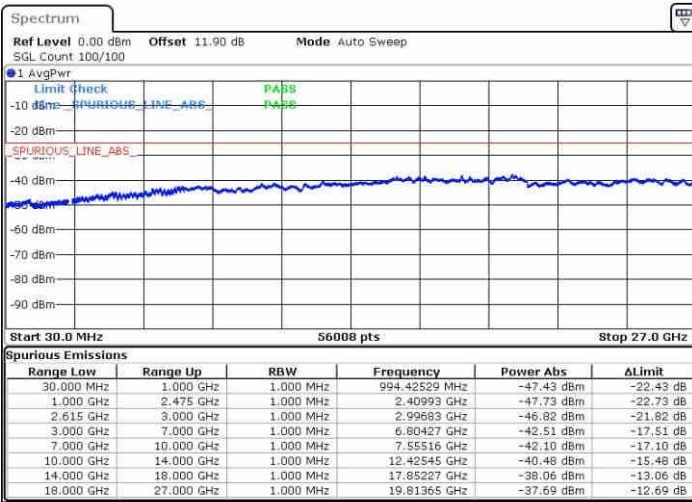


Date: 28 APR 2019 21:08:58

Date: 28 APR 2019 21:06:07

Highest Channel / FullIRB

N/A



Date: 28 APR 2019 21:20:40

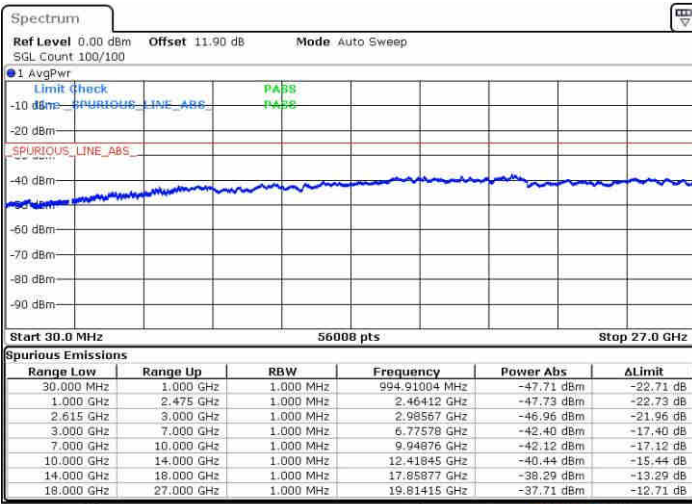


LTE Band 7 / 20MHz+20MHz

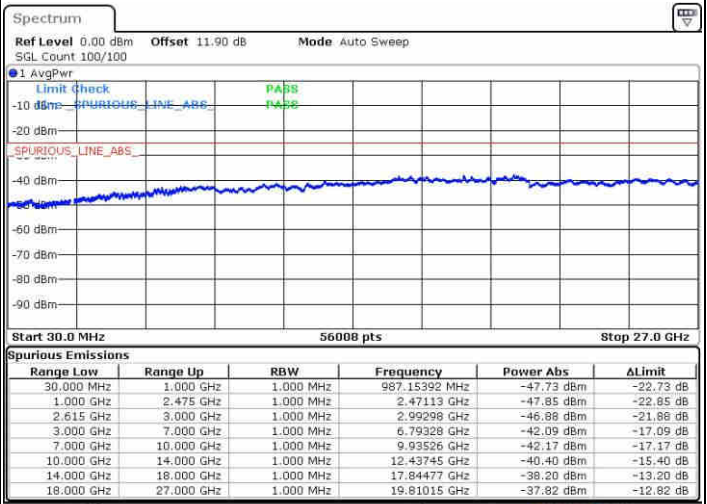
16QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0



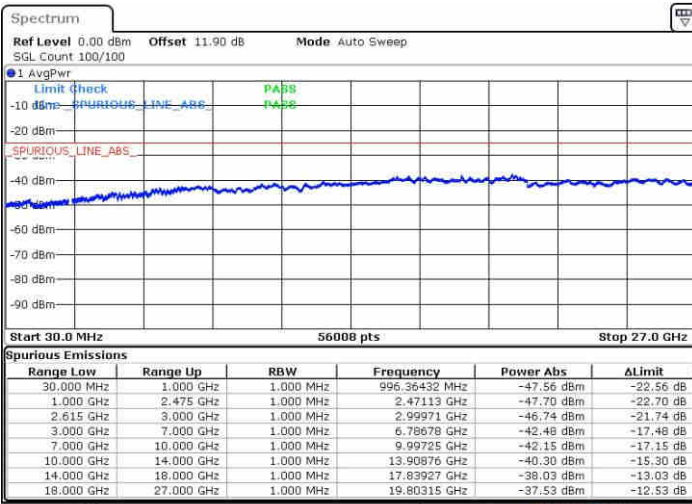
Date: 28 APR 2019 22:02:38



Date: 28 APR 2019 21:59:47

Lowest Channel / FullRB

N/A



Date: 28 APR 2019 22:05:31

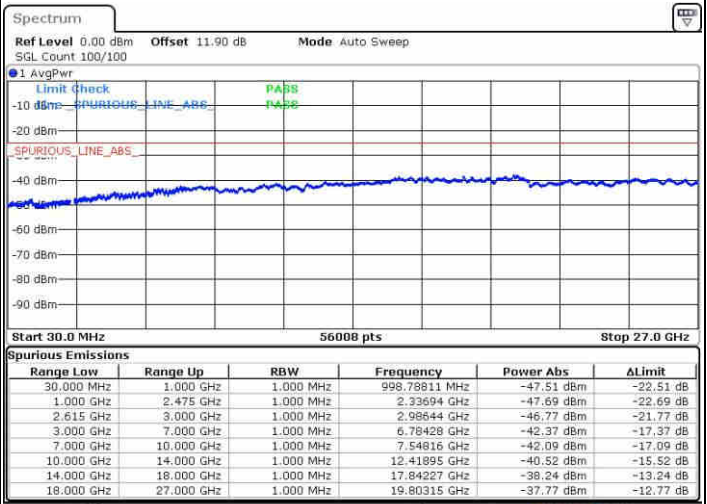
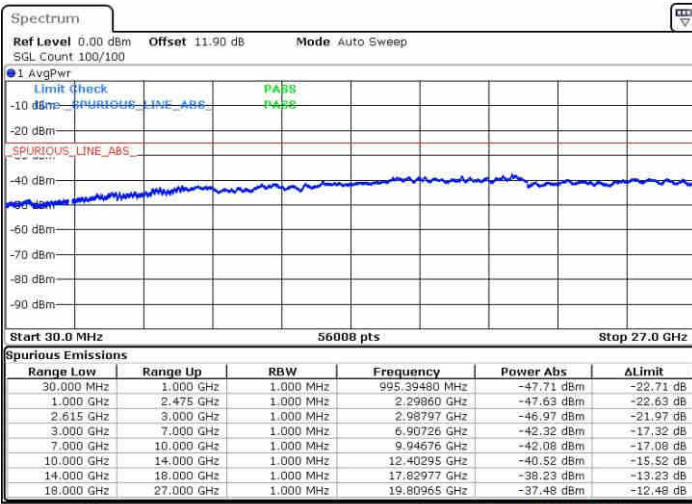


LTE Band 7 / 20MHz+20MHz

16QAM

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0

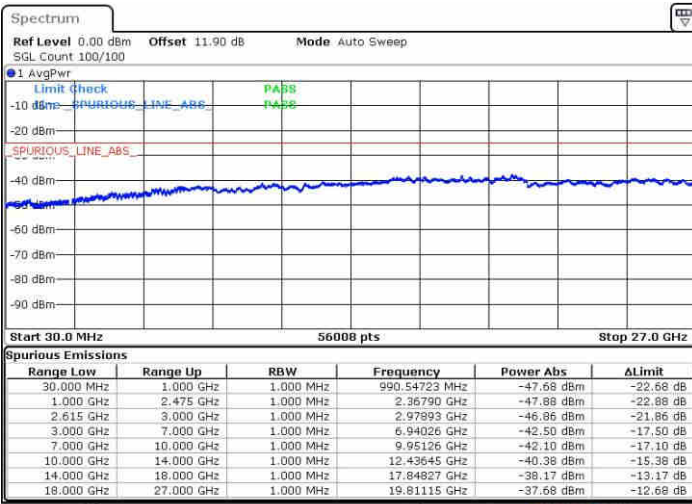


Date: 28 APR 2019 23:18:52

Date: 28 APR 2019 23:21:44

Middle Channel / FullIRB

N/A



Date: 28 APR 2019 23:15:59

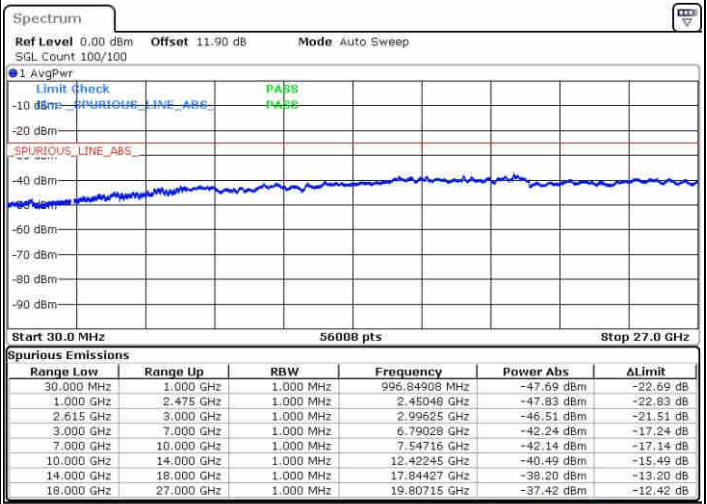
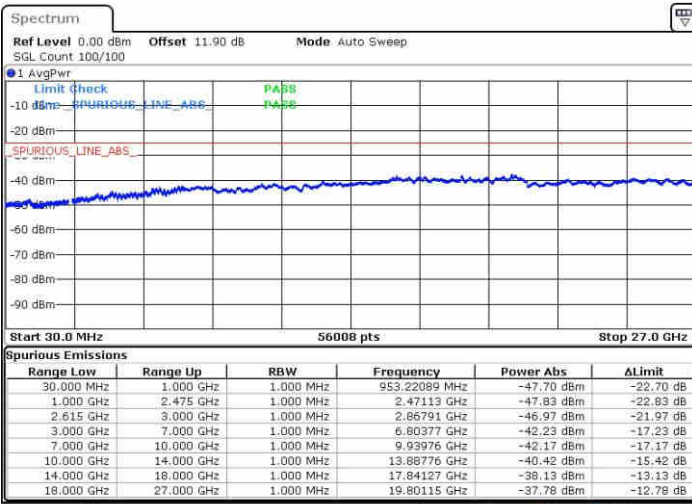


LTE Band 7 / 20MHz+20MHz

16QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0

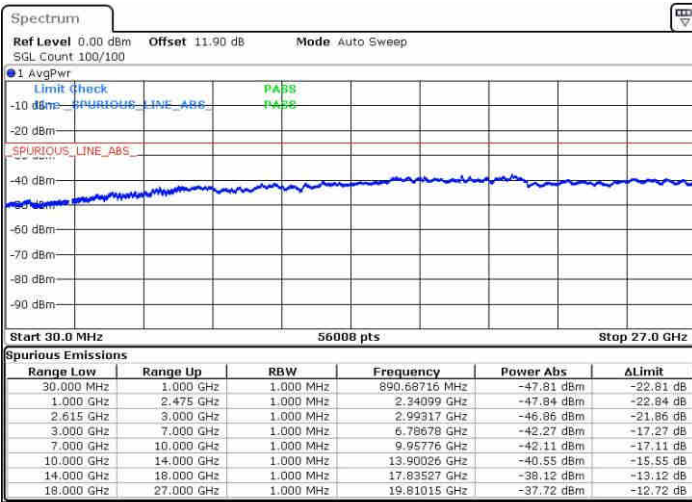


Date: 28 APR 2019 22:34:51

Date: 28 APR 2019 22:31:59

Highest Channel / FullIRB

N/A



Date: 28 APR 2019 22:37:43

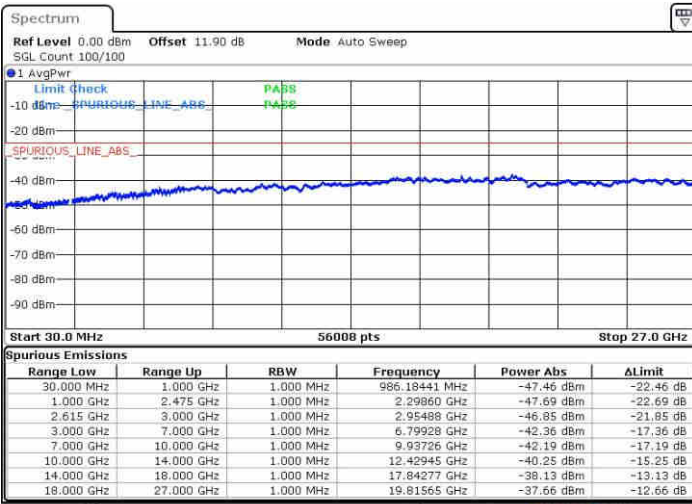


LTE Band 7 / 10MHz+20MHz

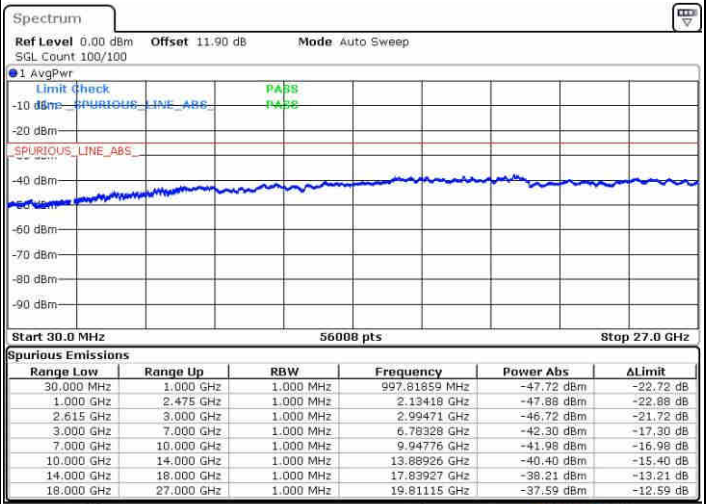
64QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB49 and 1RB0



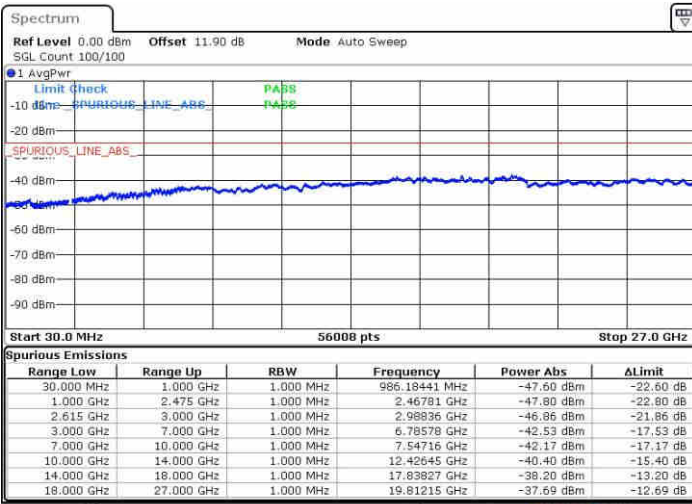
Date: 27.APR.2019 07:03.48



Date: 27.APR.2019 06:57.47

Lowest Channel / FullRB

N/A



Date: 27.APR.2019 07:05.01

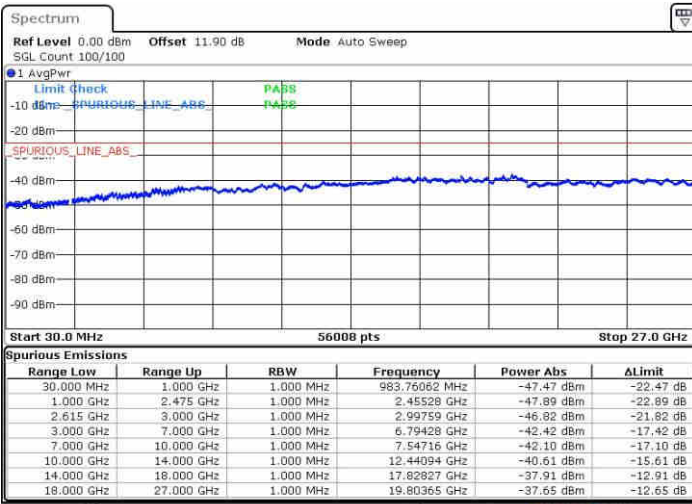


LTE Band 7 / 10MHz+20MHz

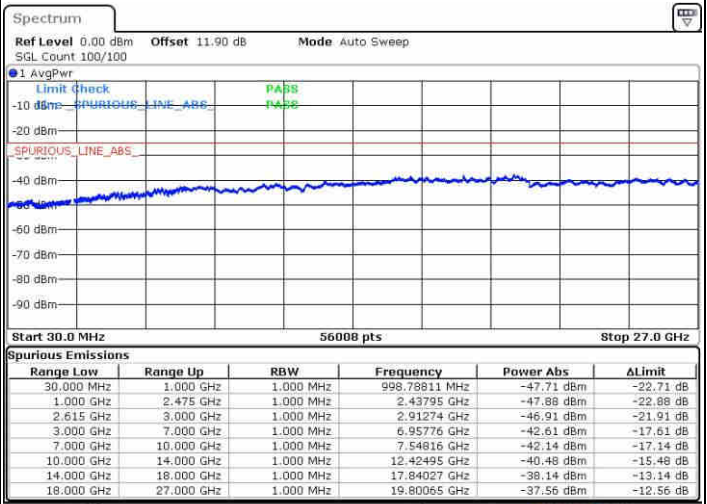
64QAM

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB49 and 1RB0



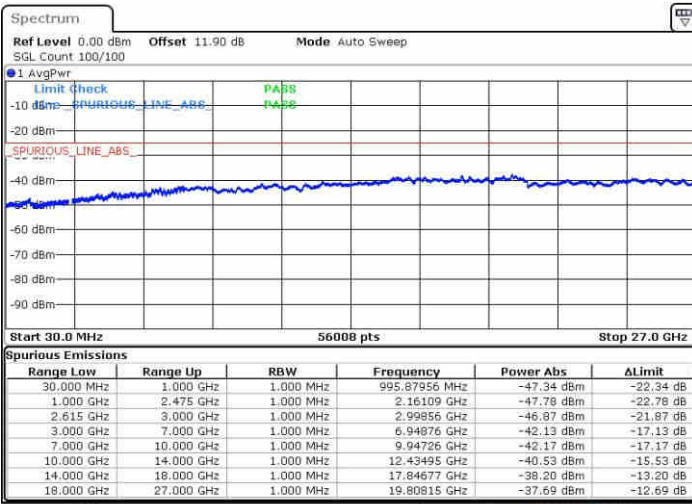
Date: 27.APR.2019 07:17:27



Date: 27.APR.2019 07:23:29

Middle Channel / FullIRB

N/A



Date: 27.APR.2019 07:16:15

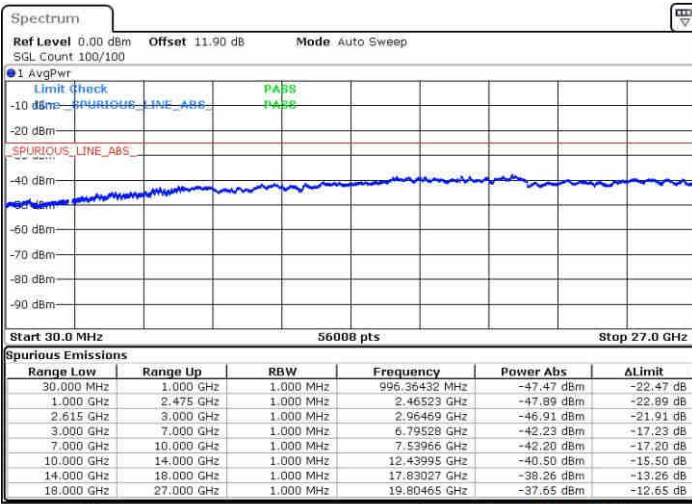


LTE Band 7 / 10MHz+20MHz

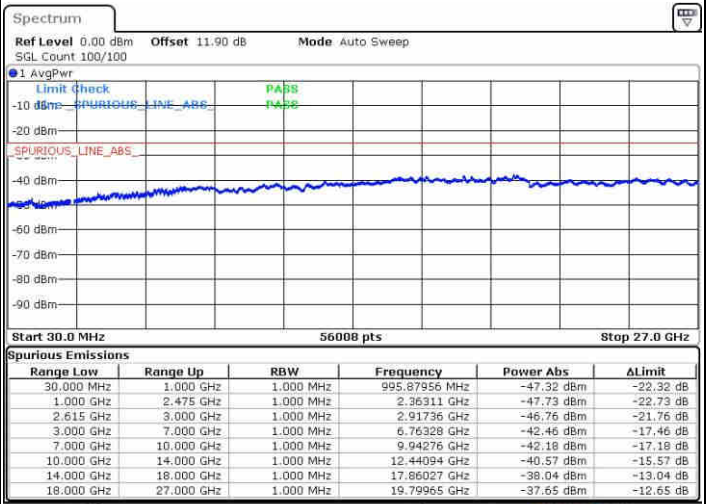
64QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB49 and 1RB0



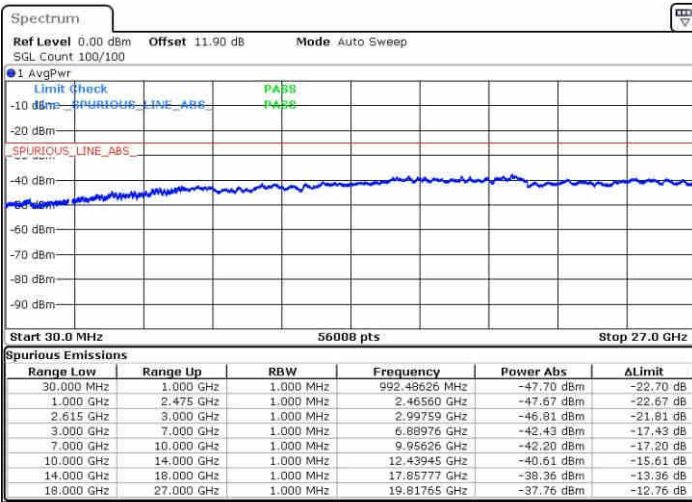
Date: 27.APR.2019 07:44:01



Date: 27.APR.2019 07:42:49

Highest Channel / FullIRB

N/A



Date: 27.APR.2019 07:50:03

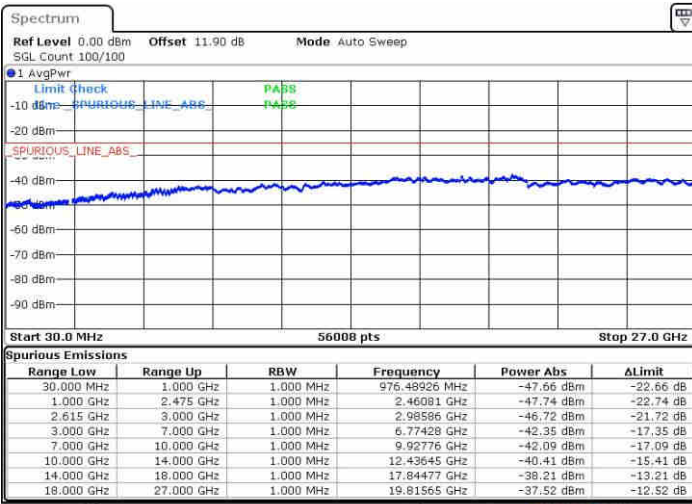


LTE Band 7 / 15MHz+10MHz

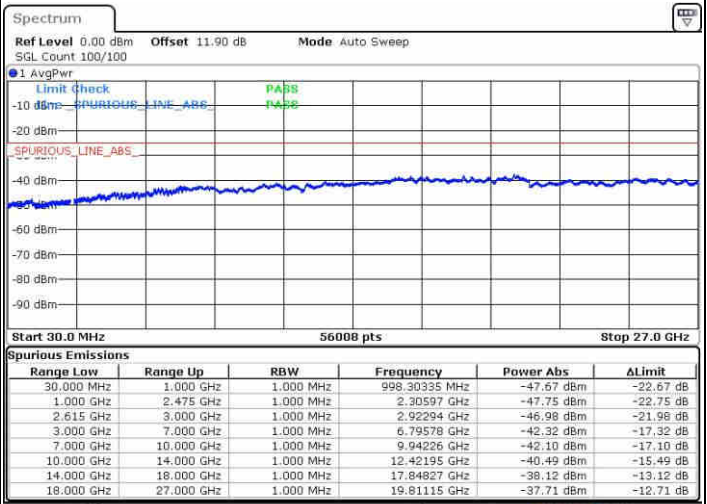
64QAM

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB74 and 1RB0



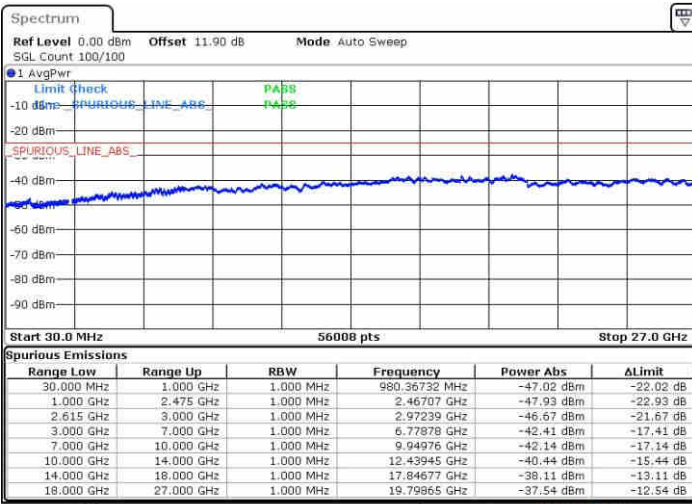
Date: 28 APR 2019 23:38:03



Date: 28 APR 2019 23:33:16

Lowest Channel / FullRB

N/A



Date: 28 APR 2019 23:39:01

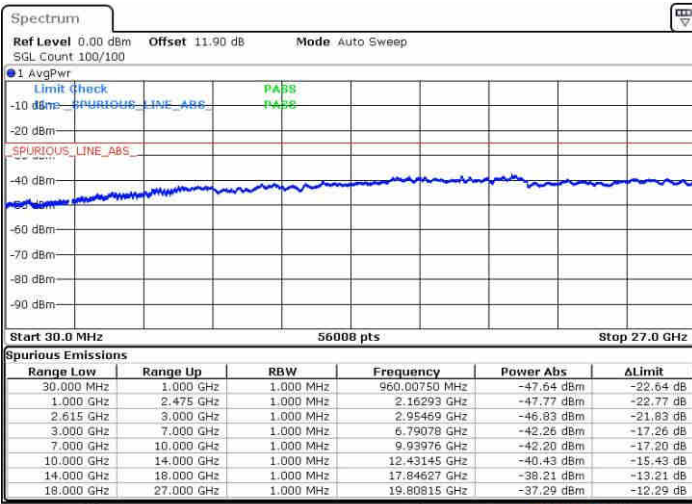


LTE Band 7 / 15MHz+10MHz

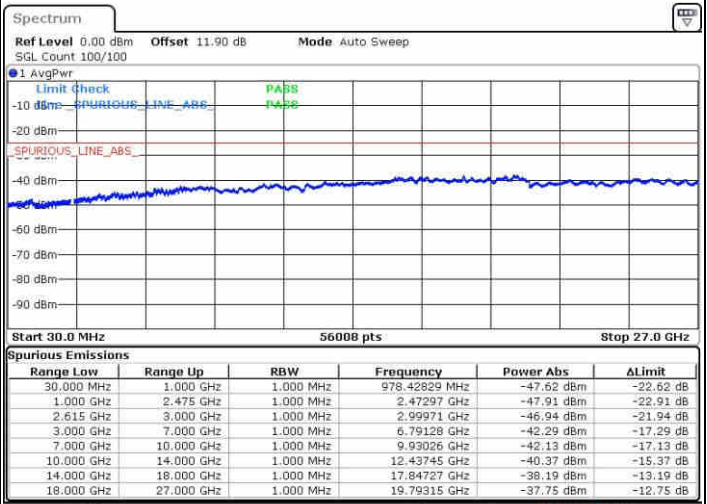
64QAM

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB74 and 1RB0



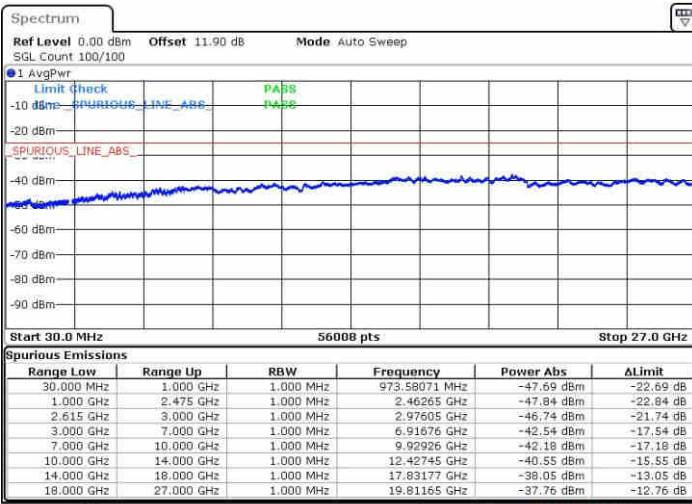
Date: 29 APR 2019 04:52:37



Date: 29 APR 2019 04:58:39

Middle Channel / FullIRB

N/A



Date: 29 APR 2019 04:51:24

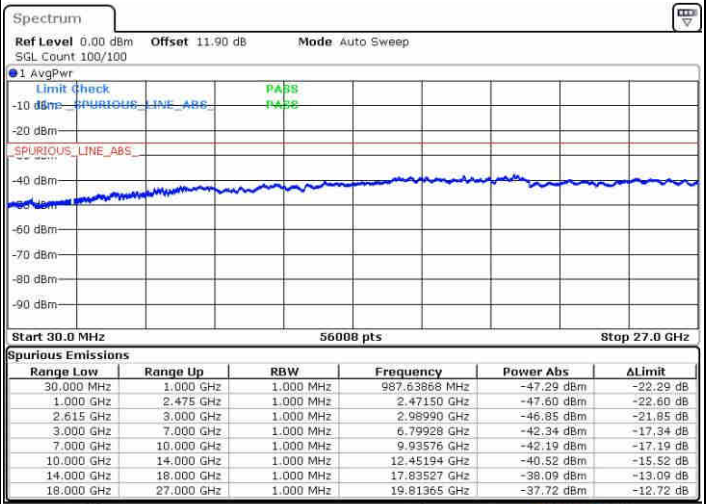
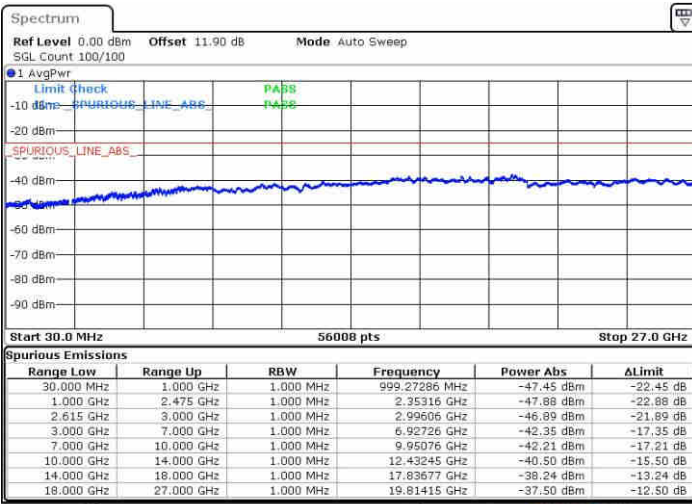


LTE Band 7 / 15MHz+10MHz

64QAM

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB74 and 1RB0

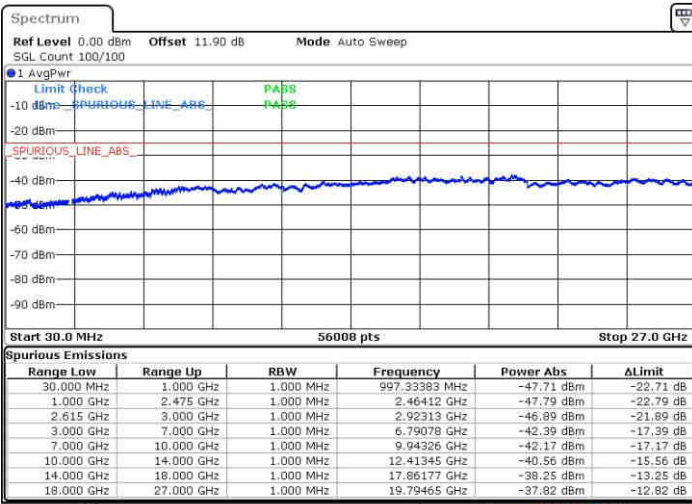


Date: 29 APR 2019 05:18:14

Date: 29 APR 2019 05:17:03

Highest Channel / FullIRB

N/A



Date: 29 APR 2019 05:24:17

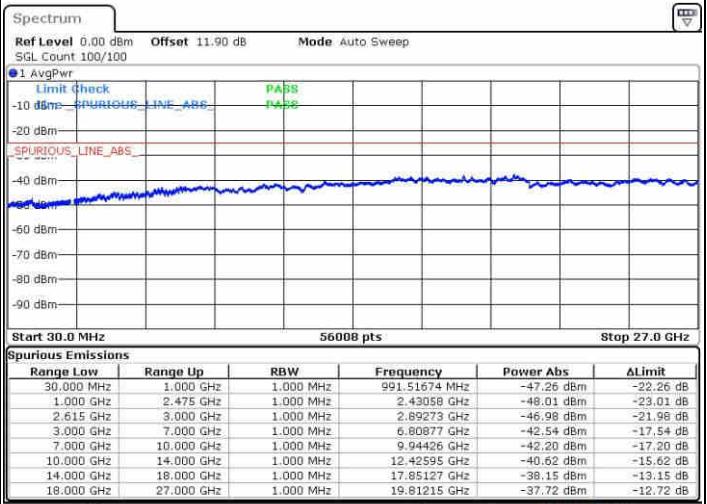
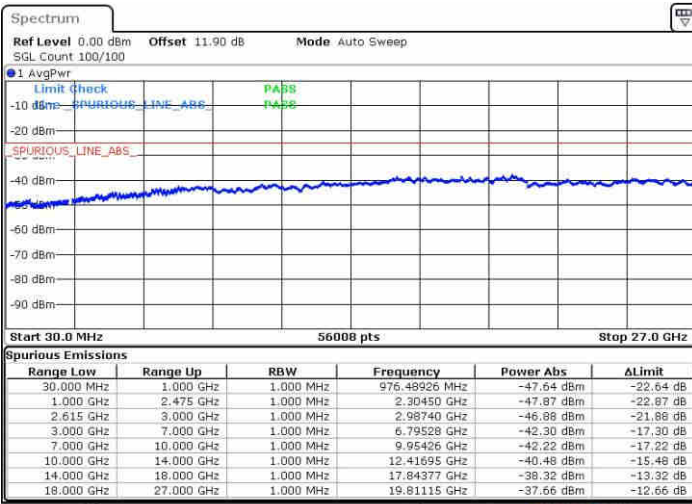


LTE Band 7 / 15MHz+15MHz

64QAM

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB74 and 1RB0

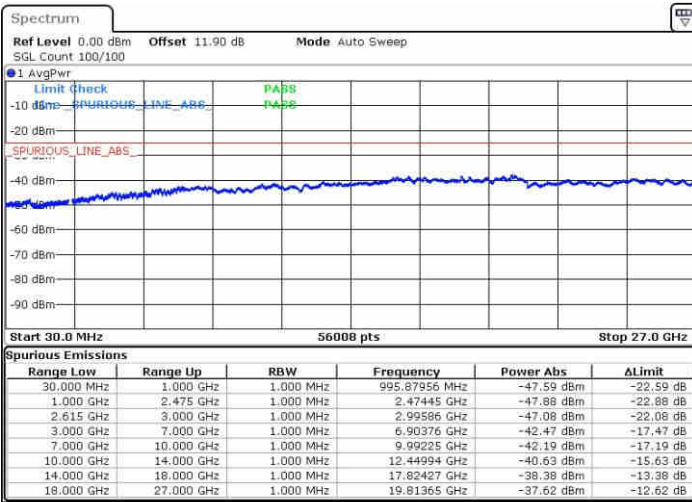


Date: 28 APR 2019 16:26:12

Date: 28 APR 2019 16:21:26

Lowest Channel / FullRB

N/A



Date: 28 APR 2019 16:27:10

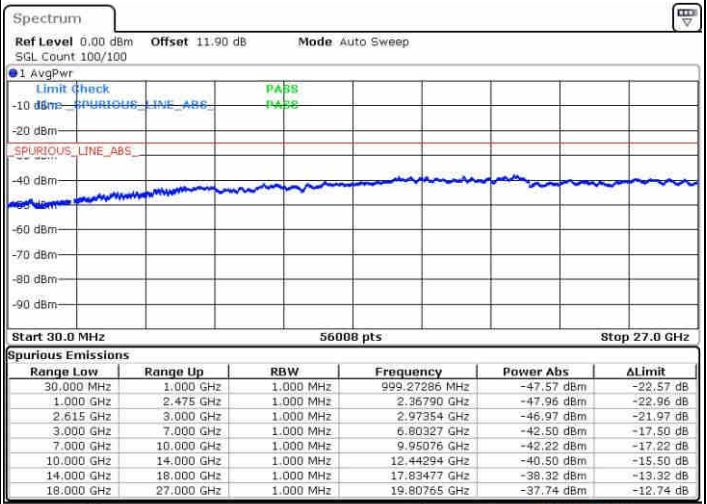
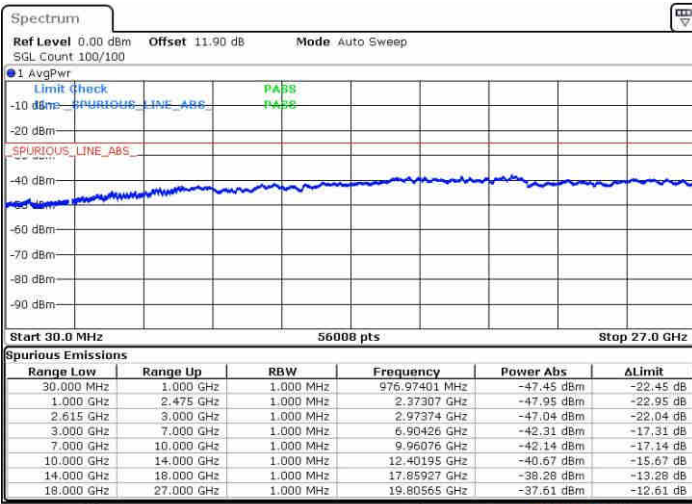


LTE Band 7 / 15MHz+15MHz

64QAM

Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB74 and 1RB0

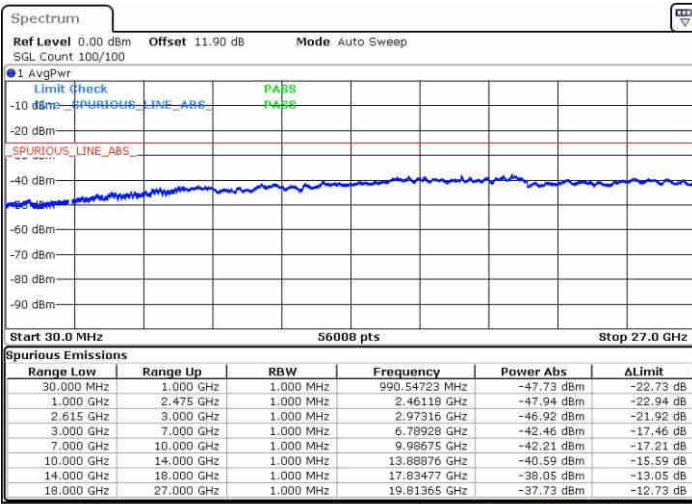


Date: 28 APR 2019 16:37:58

Date: 28 APR 2019 16:42:45

Middle Channel / FullIRB

N/A



Date: 28 APR 2019 16:37:00

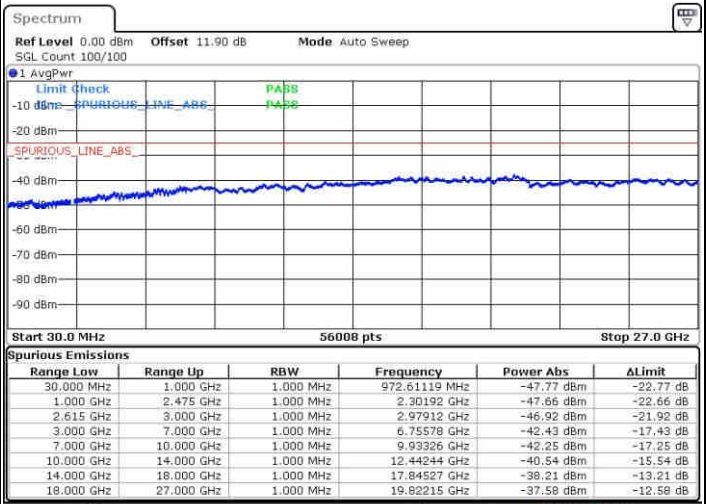
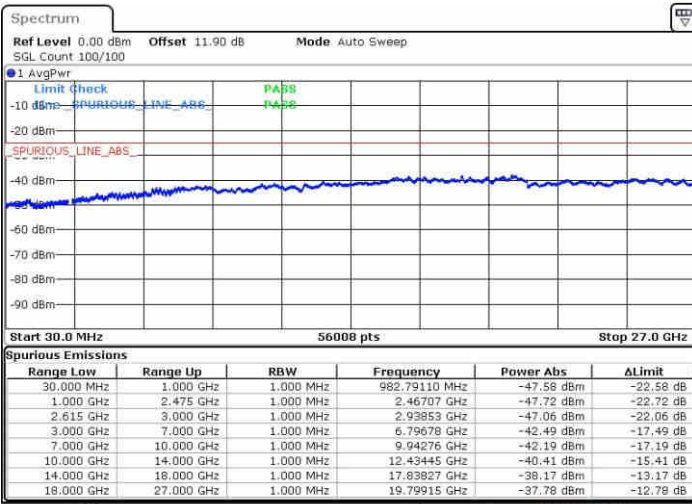


LTE Band 7 / 15MHz+15MHz

64QAM

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB74 and 1RB0

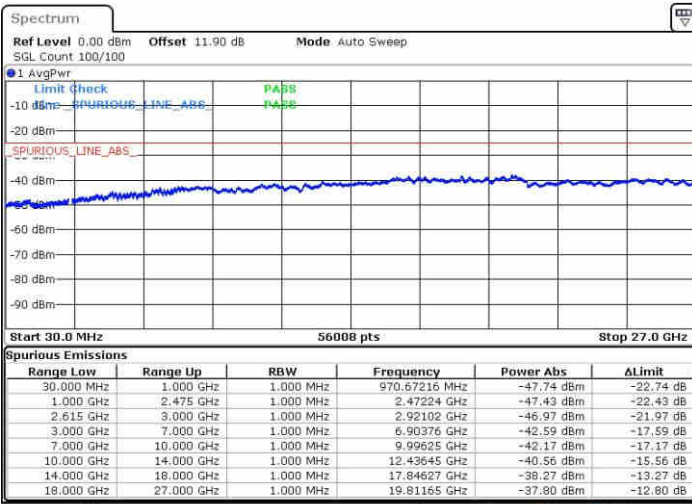


Date: 28 APR 2019 17:09:27

Date: 28 APR 2019 17:08:29

Highest Channel / FullIRB

N/A



Date: 28 APR 2019 17:14:14

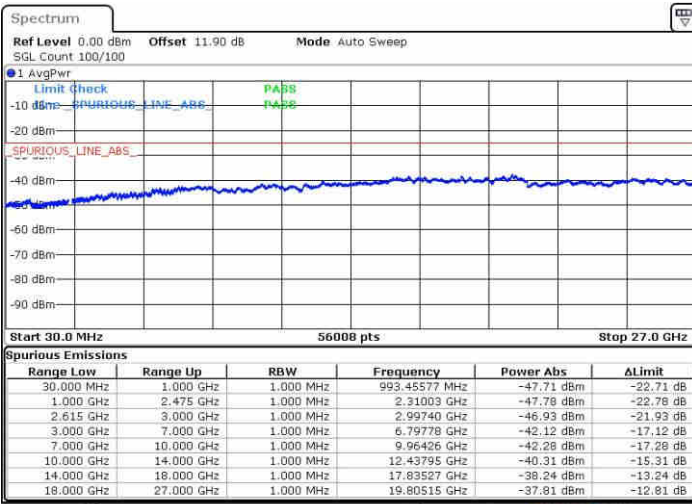


LTE Band 7 / 15MHz+20MHz

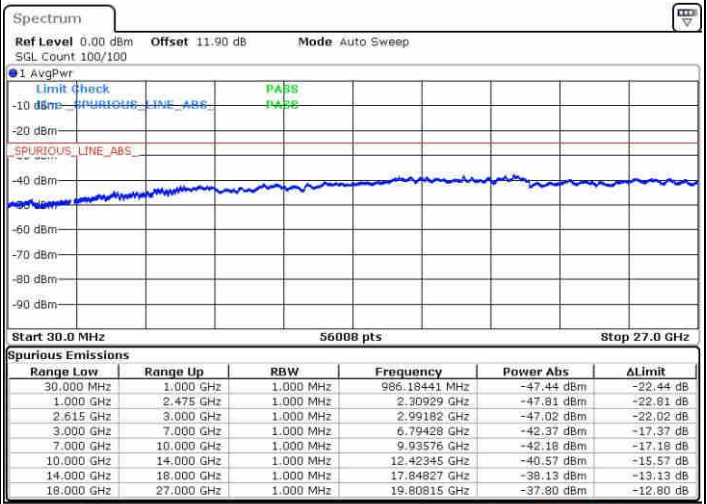
64QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB74 and 1RB0



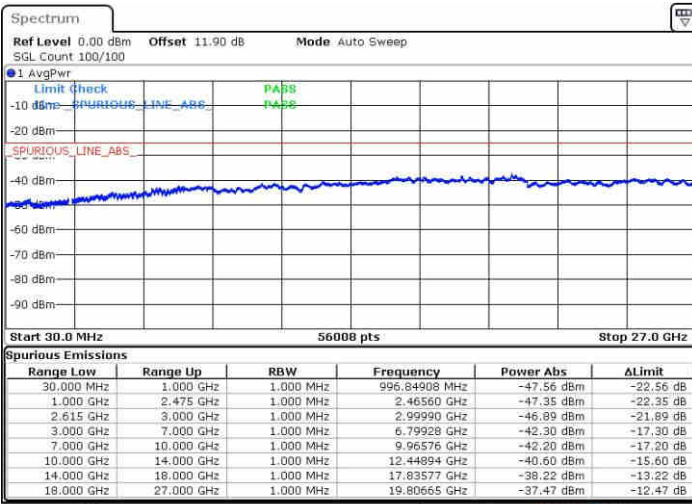
Date: 28 APR 2019 17:50:15



Date: 28 APR 2019 17:45:28

Lowest Channel / FullRB

N/A



Date: 28 APR 2019 17:51:12

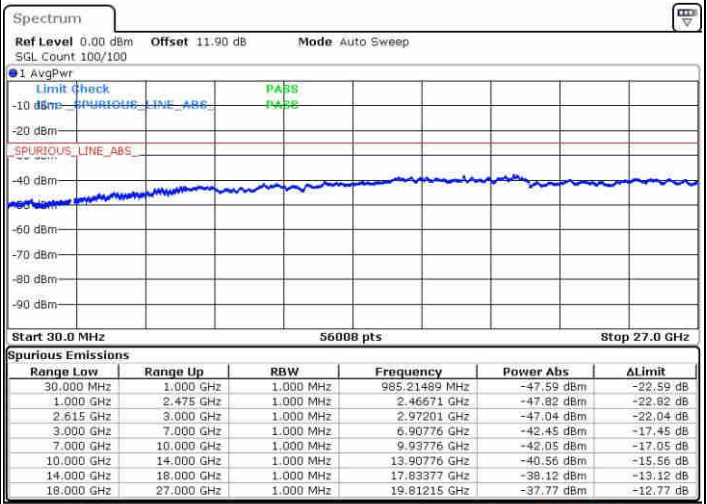
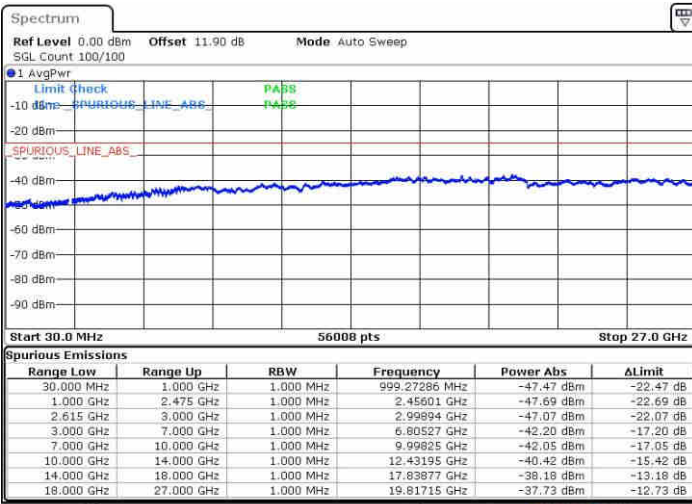


LTE Band 7 / 15MHz+20MHz

64QAM

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB74 and 1RB0

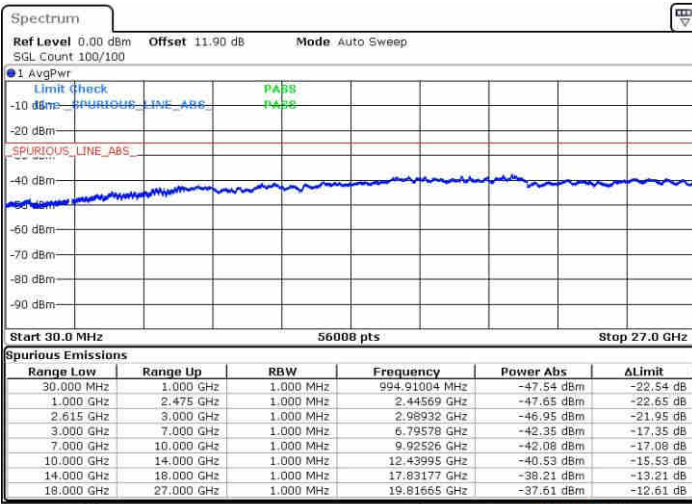


Date: 28 APR 2019 19:01:05

Date: 28 APR 2019 19:45:23

Middle Channel / FullIRB

N/A



Date: 28 APR 2019 19:00:08

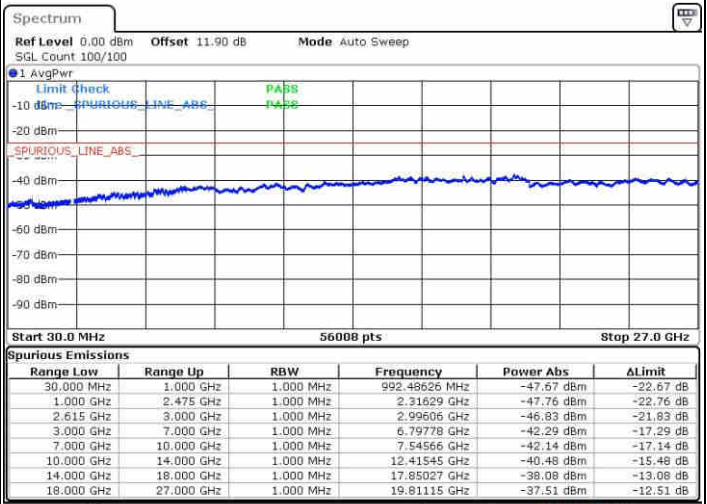
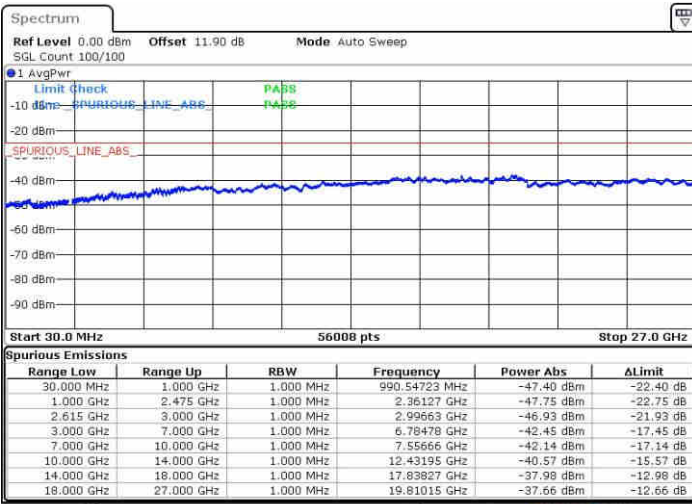


LTE Band 7 / 15MHz+20MHz

64QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0

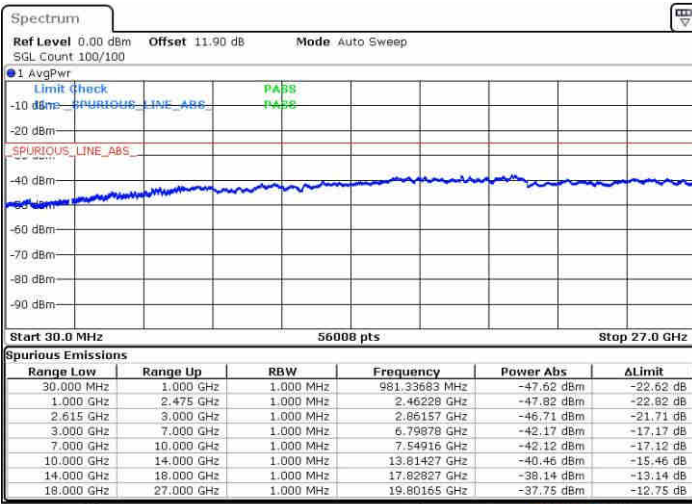


Date: 28 APR 2019 20:01:22

Date: 28 APR 2019 20:00:26

Highest Channel / FullIRB

N/A



Date: 28 APR 2019 20:06:09

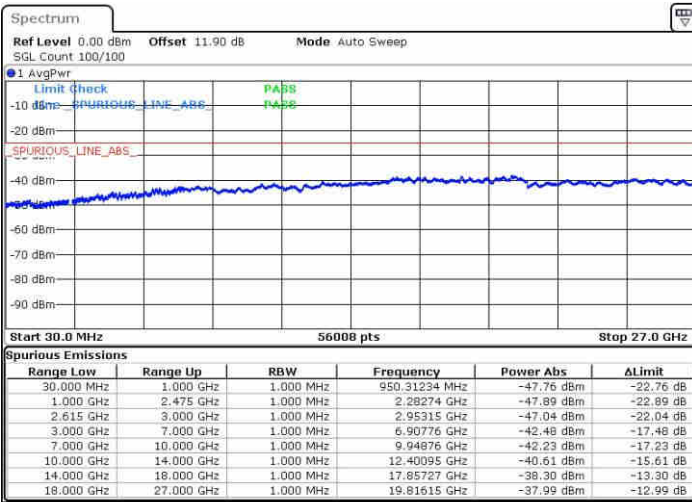


LTE Band 7 / 20MHz+10MHz

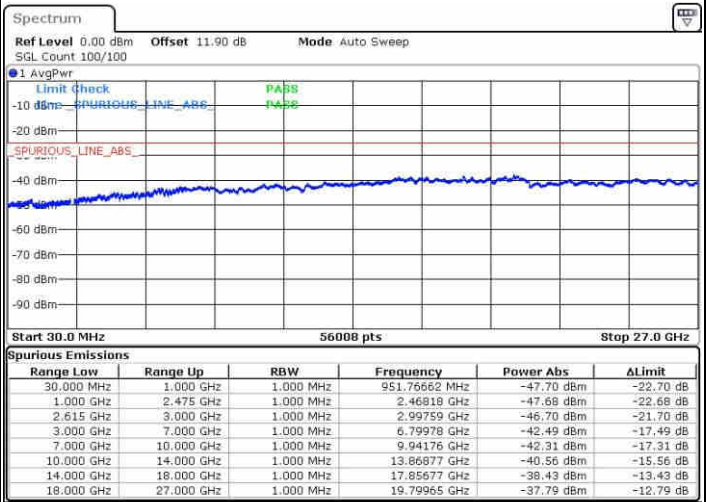
64QAM

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB99 and 1RB0



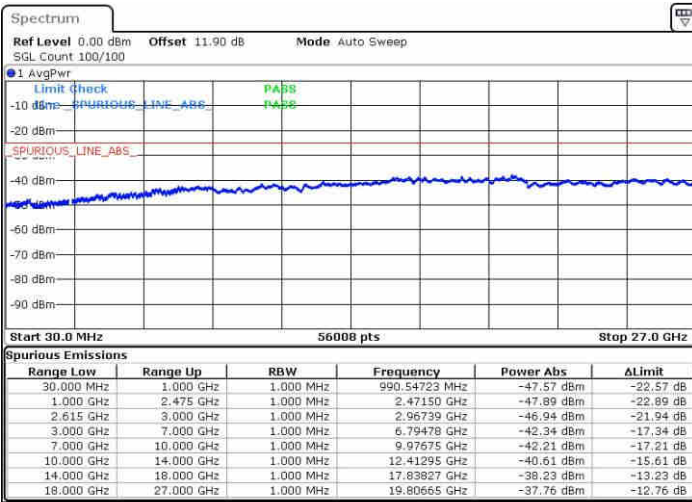
Date: 28 APR 2019 15:25:27



Date: 28 APR 2019 15:20:40

Lowest Channel / FullRB

N/A



Date: 28 APR 2019 15:26:25

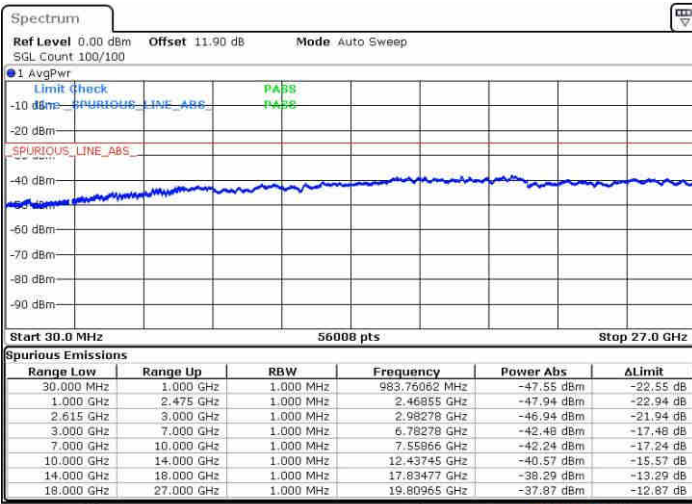


LTE Band 7 / 20MHz+10MHz

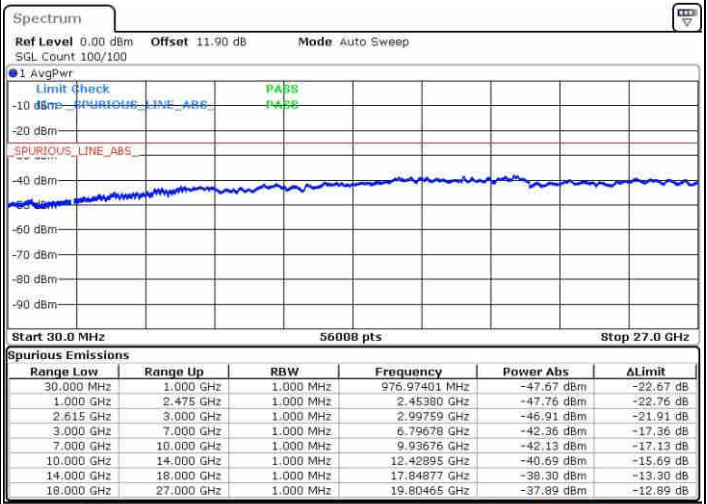
64QAM

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB99 and 1RB0



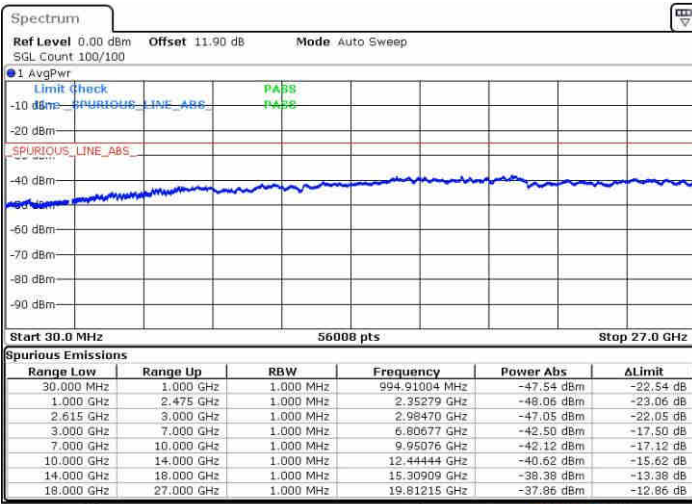
Date: 28 APR 2019 15:37:12



Date: 28 APR 2019 15:41:58

Middle Channel / FullIRB

N/A



Date: 28 APR 2019 15:36:14

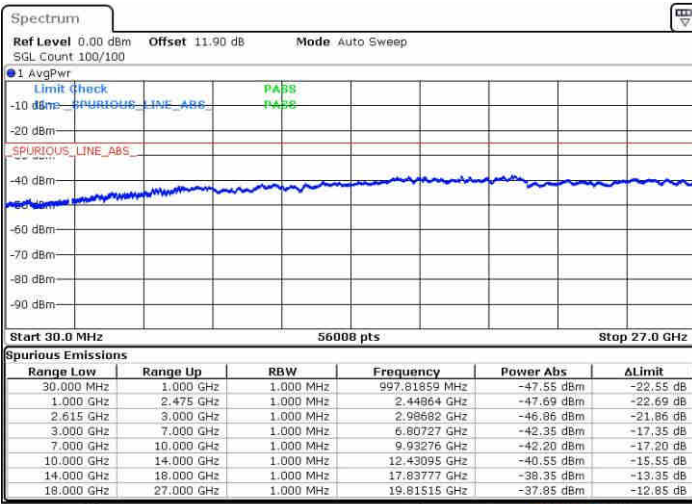


LTE Band 7 / 20MHz+10MHz

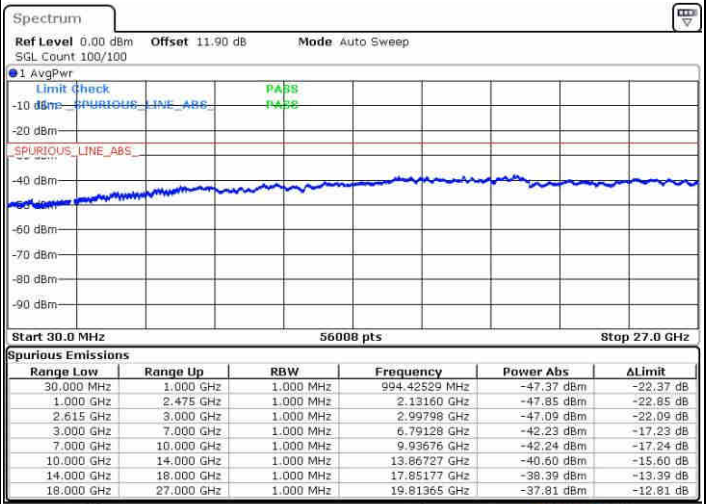
64QAM

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB99 and 1RB0



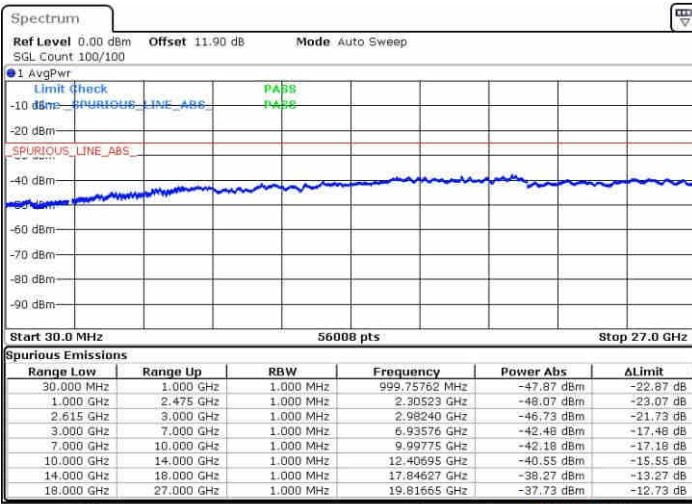
Date: 28 APR 2019 16:03:14



Date: 28 APR 2019 16:02:17

Highest Channel / FullIRB

N/A



Date: 28 APR 2019 16:08:01

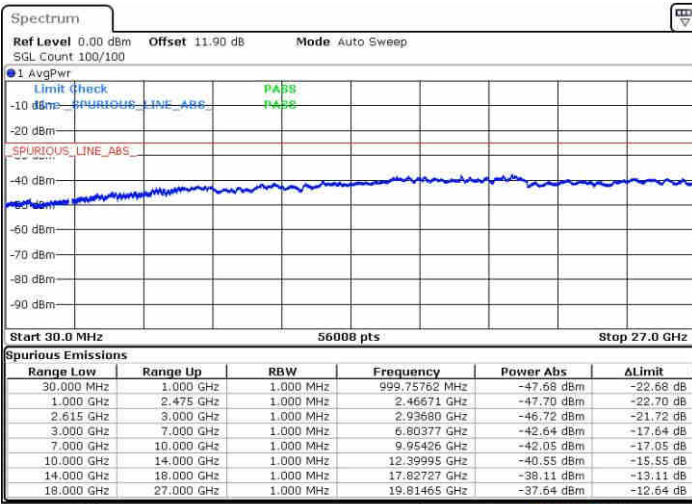


LTE Band 7 / 20MHz+15MHz

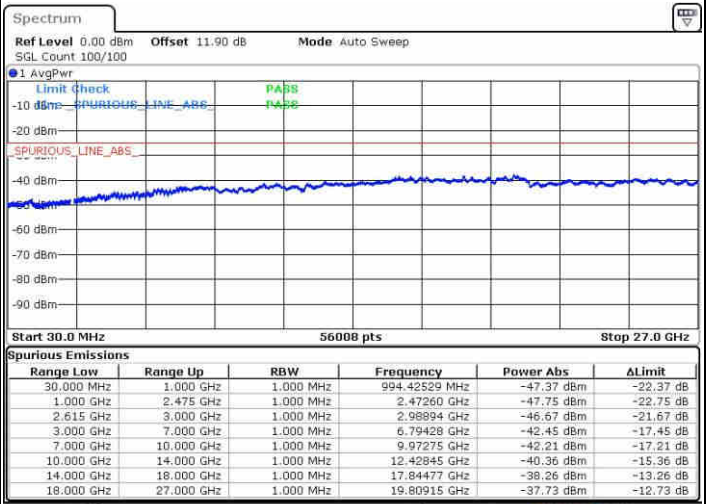
64QAM

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0



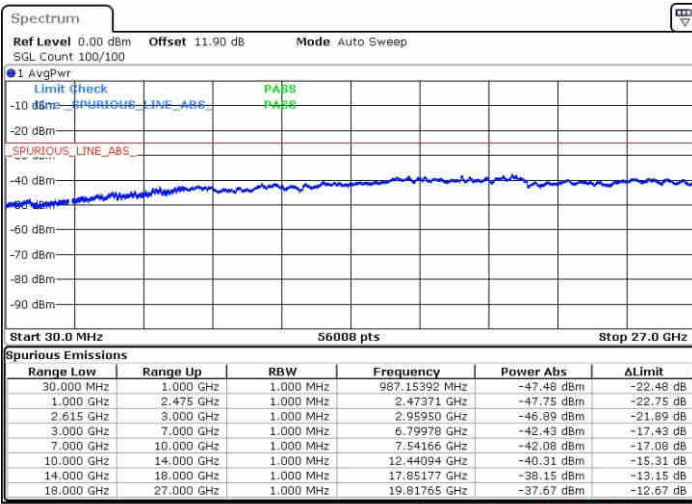
Date: 28 APR 2019 20:29:18



Date: 28 APR 2019 20:24:31

Lowest Channel / FullRB

N/A



Date: 28 APR 2019 20:30:16

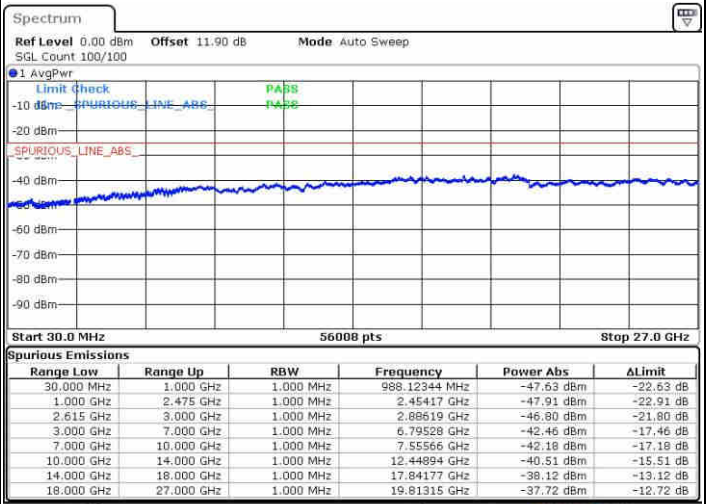
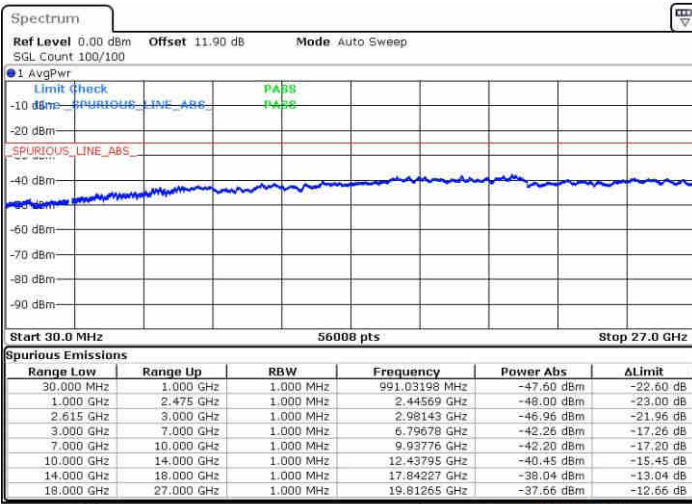


LTE Band 7 / 20MHz+15MHz

64QAM

MiddleChannel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0

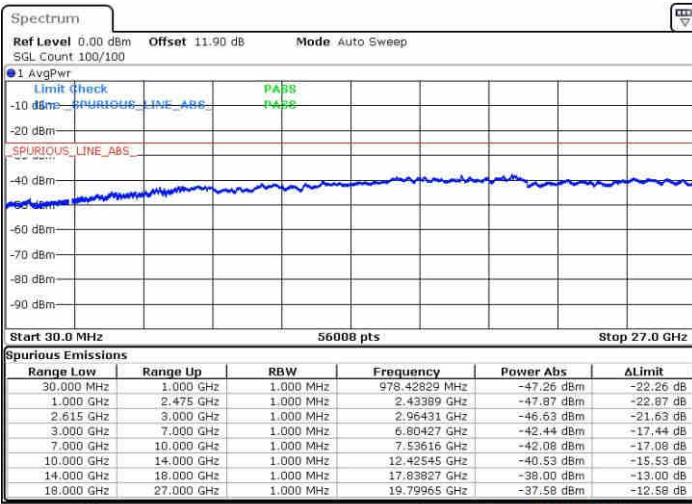


Date: 28 APR 2019 20:48:58

Date: 28 APR 2019 20:53:45

Middle Channel / FullIRB

N/A



Date: 28 APR 2019 20:48:01

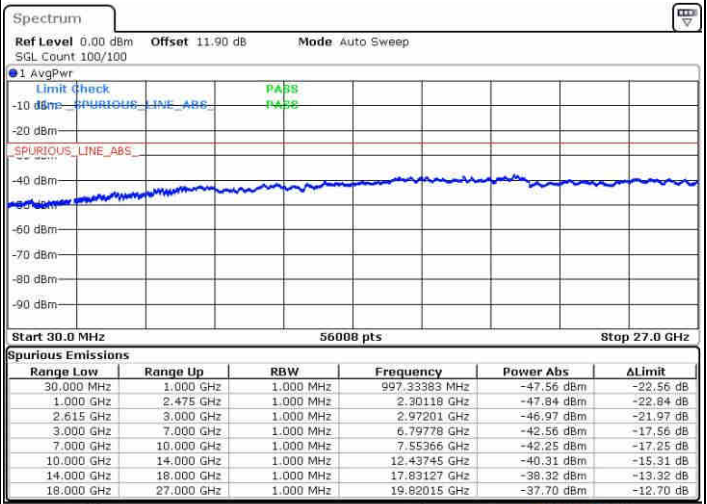
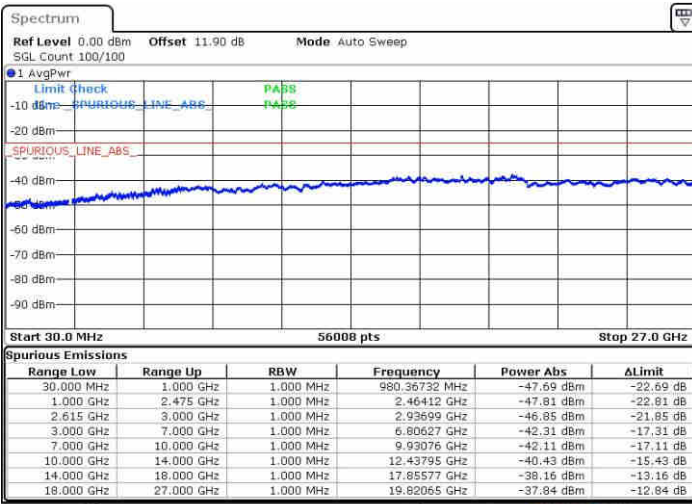


LTE Band 7 / 20MHz+15MHz

64QAM

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0

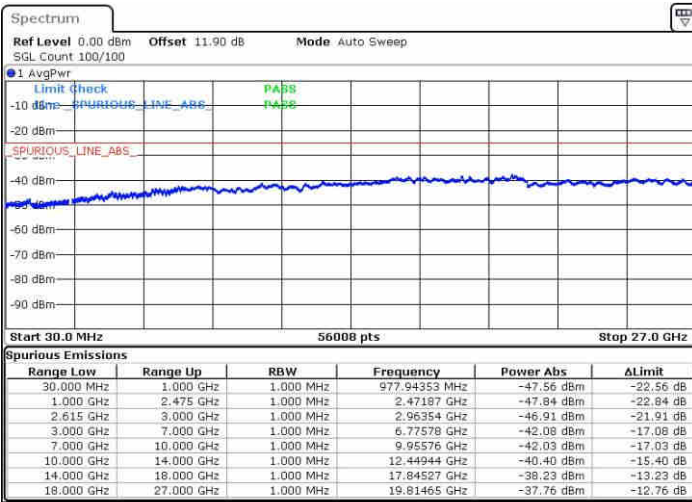


Date: 28 APR 2019 21:08:01

Date: 28 APR 2019 21:07:04

Highest Channel / FullIRB

N/A



Date: 28 APR 2019 21:21:37

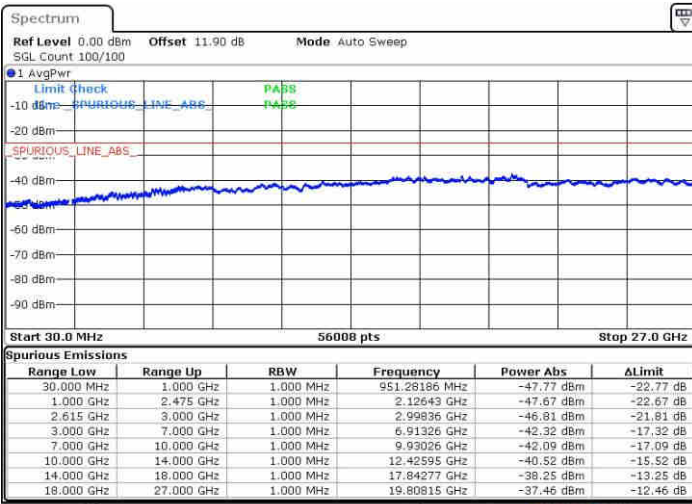


LTE Band 7 / 20MHz+20MHz

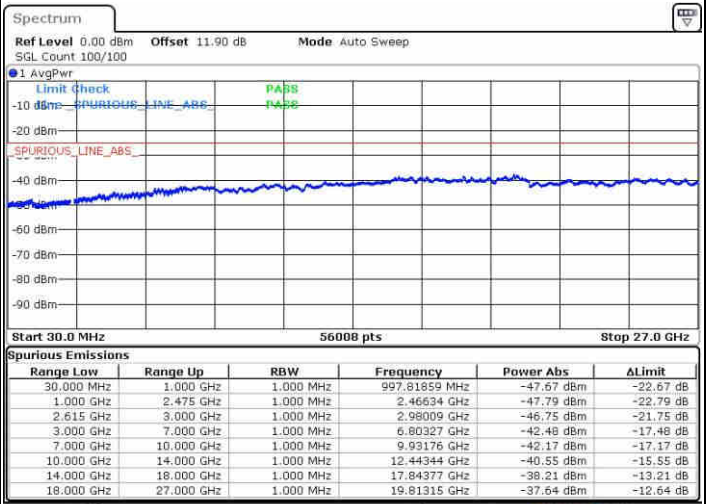
64QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0



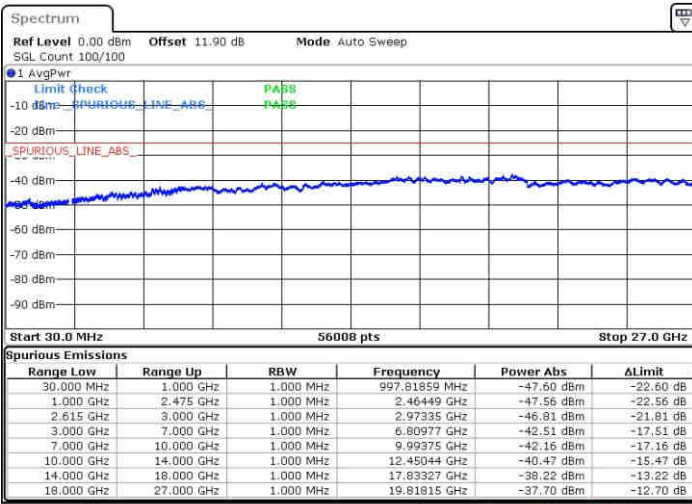
Date: 28 APR 2019 22:03:36



Date: 28 APR 2019 21:58:49

Lowest Channel / FullRB

N/A



Date: 28 APR 2019 22:04:33

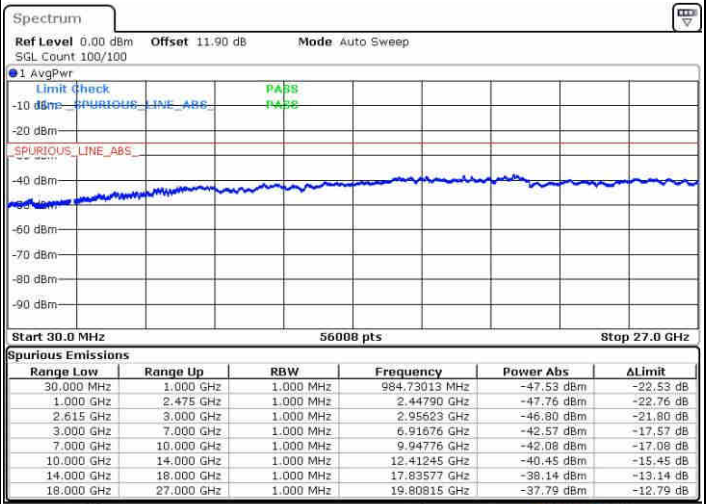
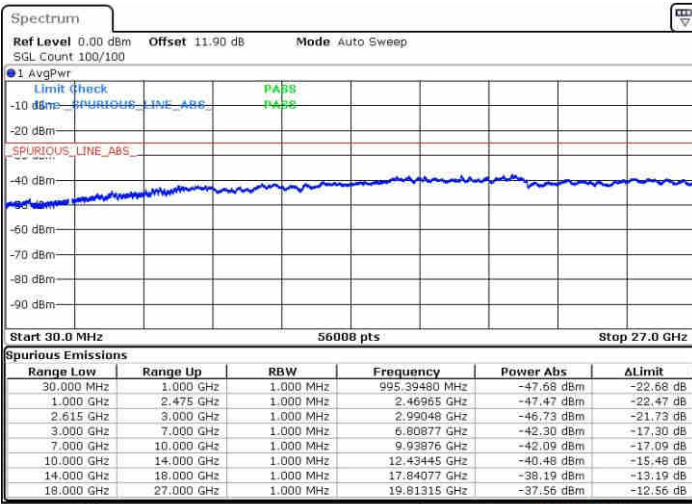


LTE Band 7 / 20MHz+20MHz

64QAM

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0

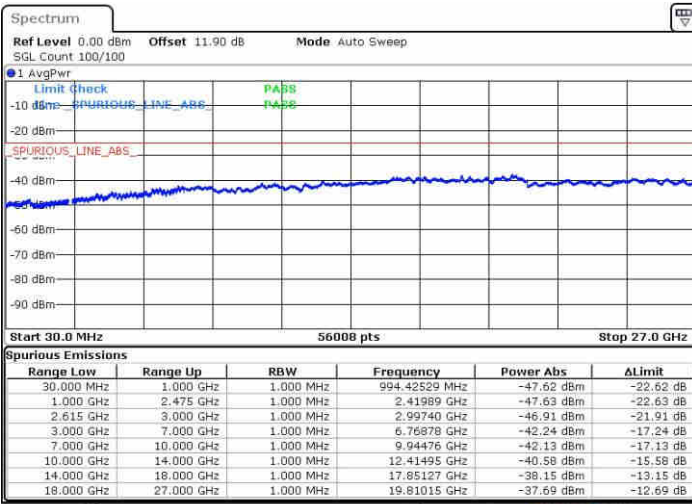


Date: 28 APR 2019 23:17:55

Date: 28 APR 2019 23:22:41

Middle Channel / FullIRB

N/A



Date: 28 APR 2019 23:16:57

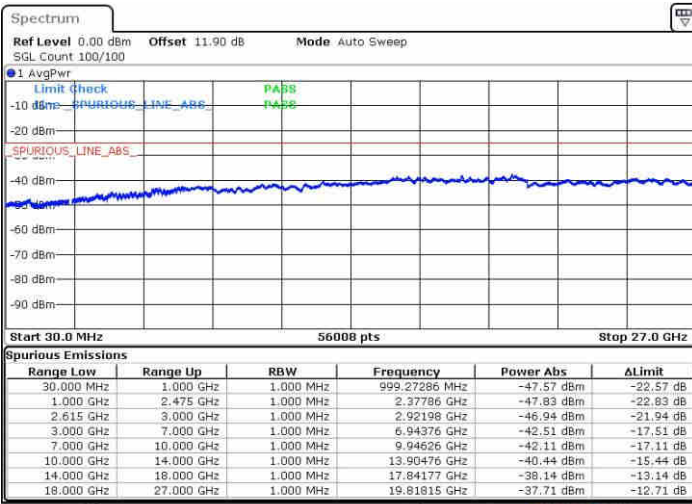


LTE Band 7 / 20MHz+20MHz

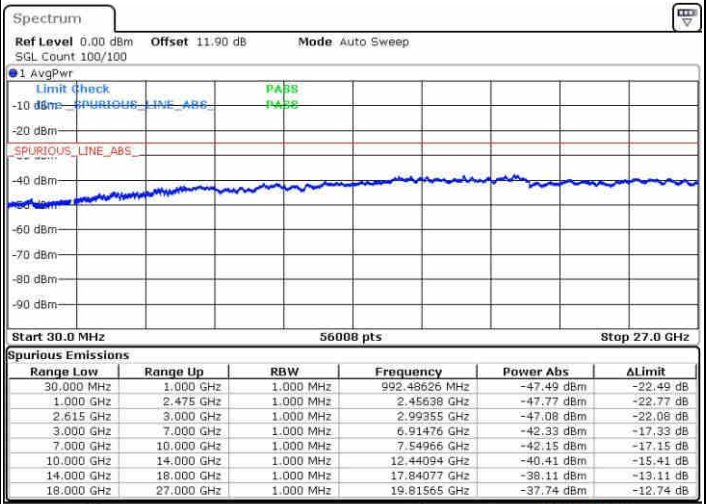
64QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



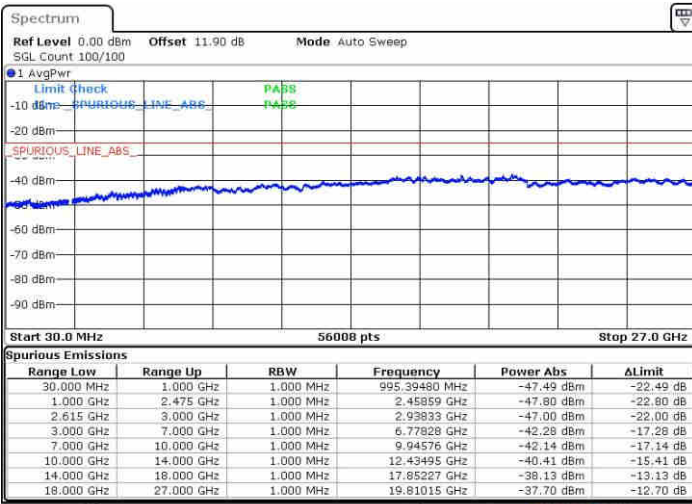
Date: 28 APR 2019 22:33:53



Date: 28 APR 2019 22:32:57

Highest Channel / FullIRB

N/A



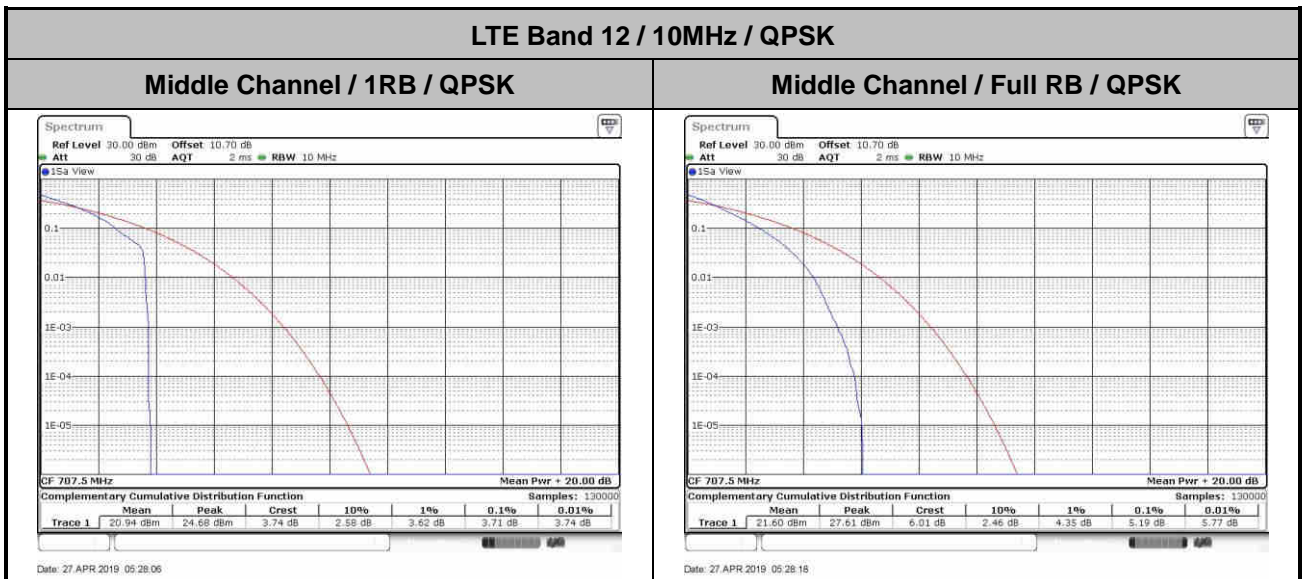
Date: 28 APR 2019 22:38:41



LTE Band 12

Peak-to-Average Ratio

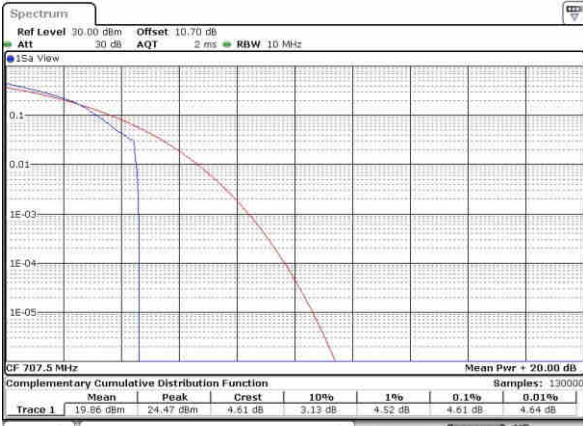
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.65	5.16	4.12	6.12	PASS
Middle CH	3.71	5.19	4.61	6.09	
Highest CH	4.00	5.13	4.75	6.06	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.71	6.70	-	-	PASS
Middle CH	5.51	6.55	-	-	
Highest CH	5.45	6.61	-	-	





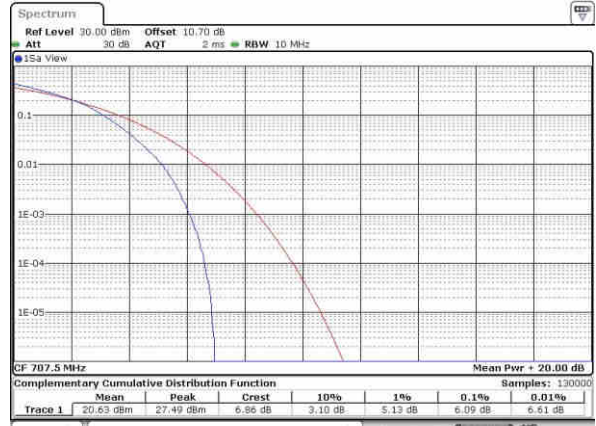
LTE Band 12 / 10MHz / 16QAM

Middle Channel / 1RB



Date: 27 APR 2019 05:25:59

Middle Channel / Full RB



Date: 27 APR 2019 05:26:17

LTE Band 12 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 27 APR 2019 05:24:28

Middle Channel / Full RB



Date: 27 APR 2019 05:24:39



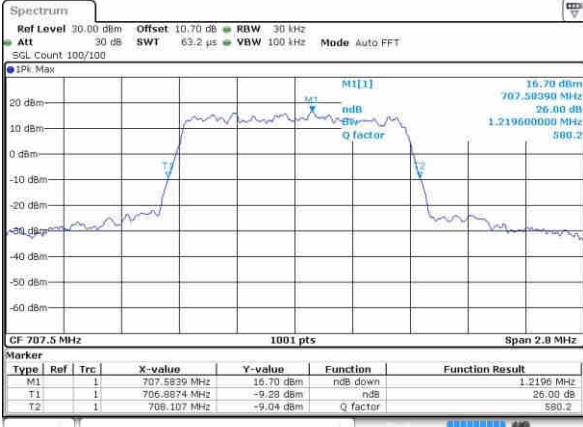
26dB Bandwidth

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	1.23	1.23	3.03	2.99	4.94	4.86	9.73	9.77	-	-	-	-
Middle CH	1.22	1.23	3.04	3.00	4.96	4.84	9.81	9.87	-	-	-	-
Highest CH	1.24	1.22	3.01	2.99	4.97	4.88	9.71	9.71	-	-	-	-
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	-	3.01	-	4.88	-	9.75	-	-	-	-	-
Middle CH	1.23	-	2.99	-	4.86	-	9.85	-	-	-	-	-
Highest CH	1.22	-	3.00	-	4.96	-	9.73	-	-	-	-	-



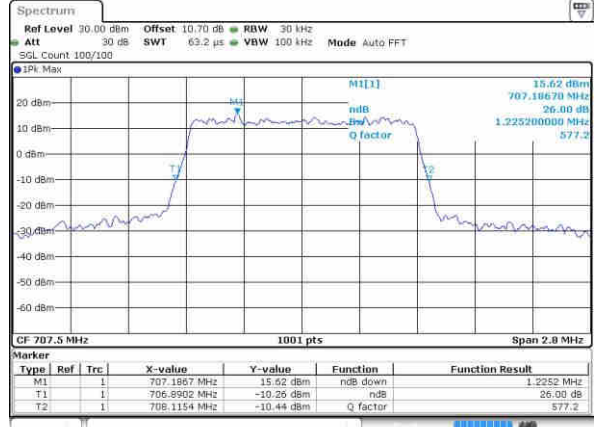
LTE Band 12

Middle Channel / 1.4MHz / QPSK



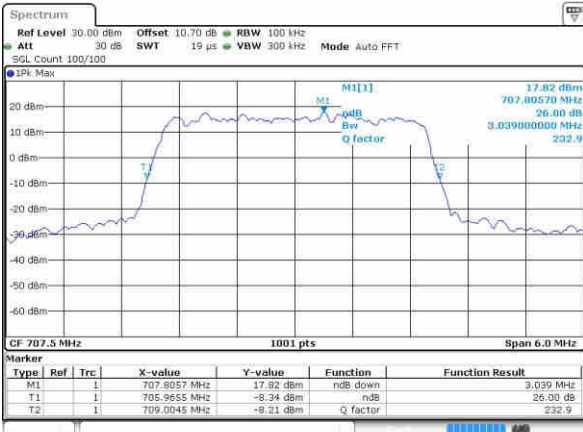
Date: 27 APR 2019 04 02 27

Middle Channel / 1.4MHz / 16QAM



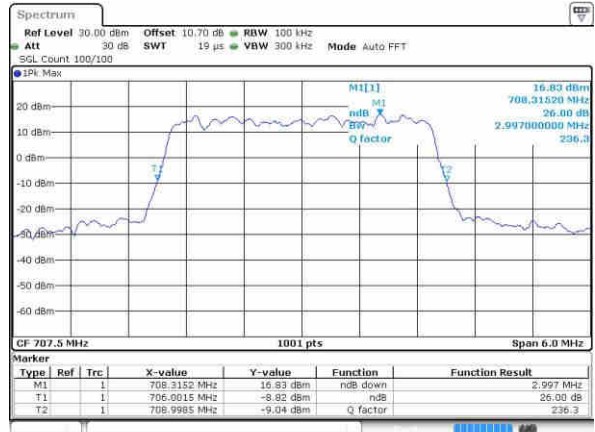
Date: 27 APR 2019 04 02 38

Middle Channel / 3MHz / QPSK



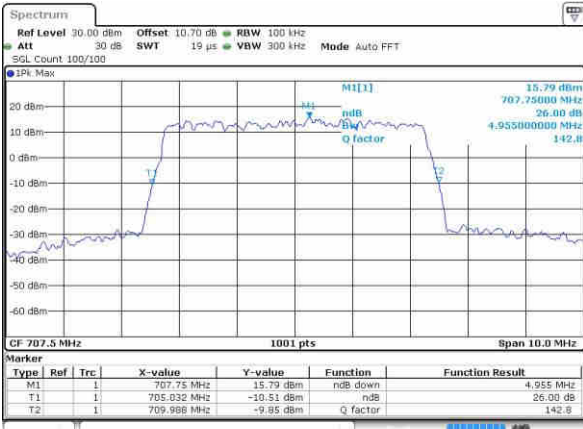
Date: 27 APR 2019 04 24 24

Middle Channel / 3MHz / 16QAM



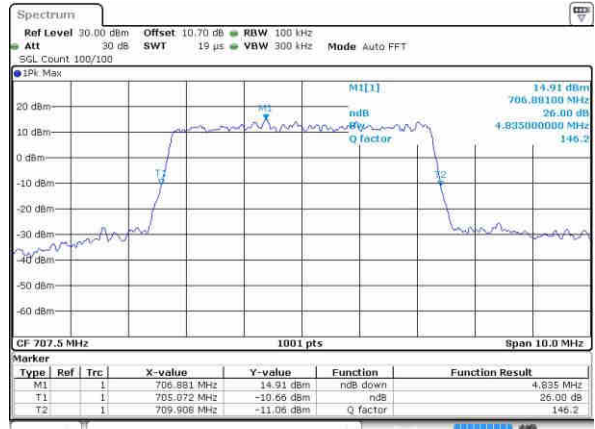
Date: 27 APR 2019 04 24 36

Middle Channel / 5MHz / QPSK



Date: 27 APR 2019 04 53 42

Middle Channel / 5MHz / 16QAM

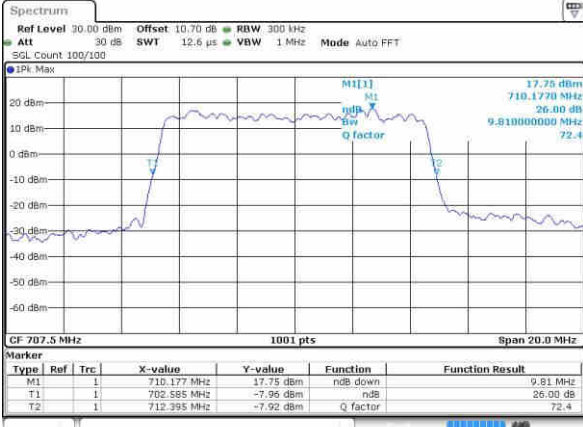


Date: 27 APR 2019 04 53 54



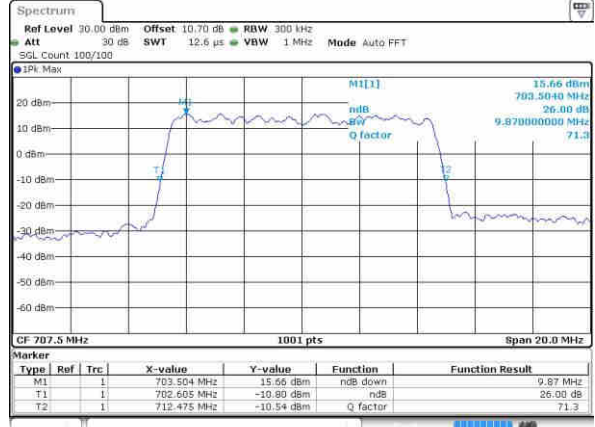
LTE Band 12

Middle Channel / 10MHz / QPSK



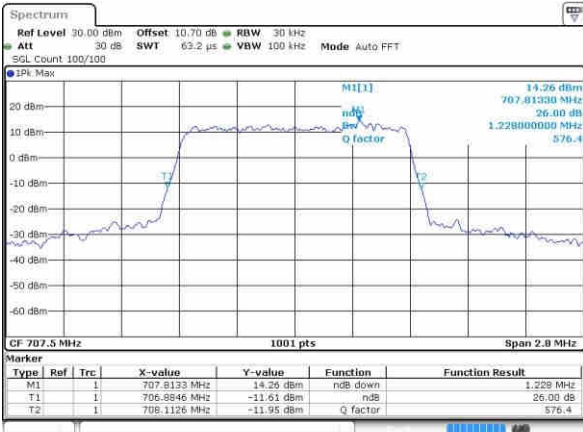
Date: 27 APR 2019 05 08 22

Middle Channel / 10MHz / 16QAM



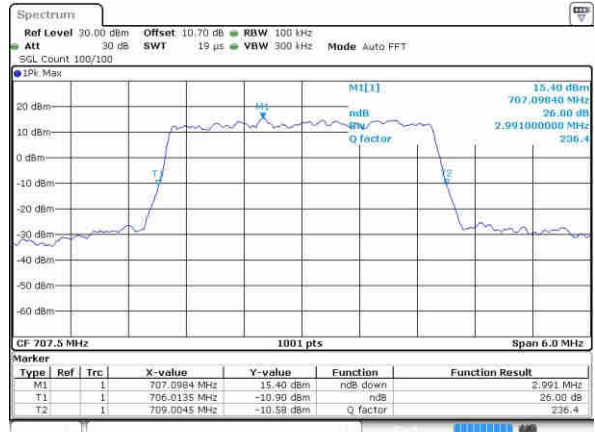
Date: 27 APR 2019 05 08 33

Middle Channel / 1.4MHz / 64QAM



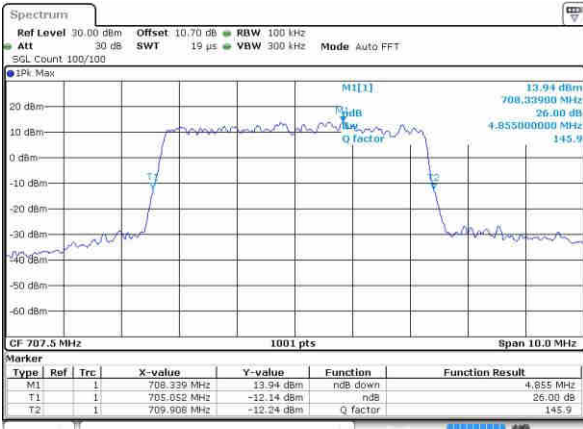
Date: 27 APR 2019 04 13 45

Middle Channel / 3MHz / 64QAM



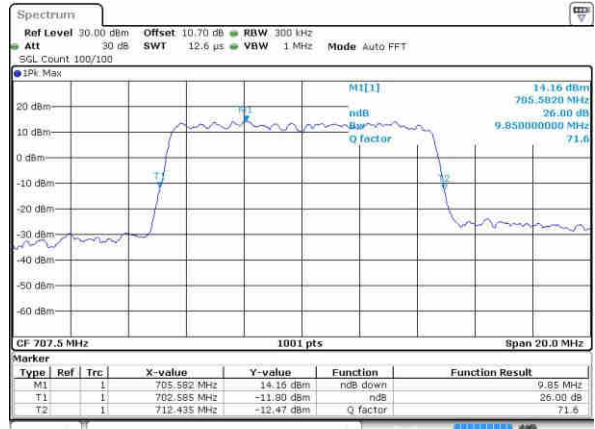
Date: 27 APR 2019 04 35 43

Middle Channel / 5MHz / 64QAM



Date: 27 APR 2019 04 43 03

Middle Channel / 10MHz / 64QAM



Date: 27 APR 2019 05 19 45



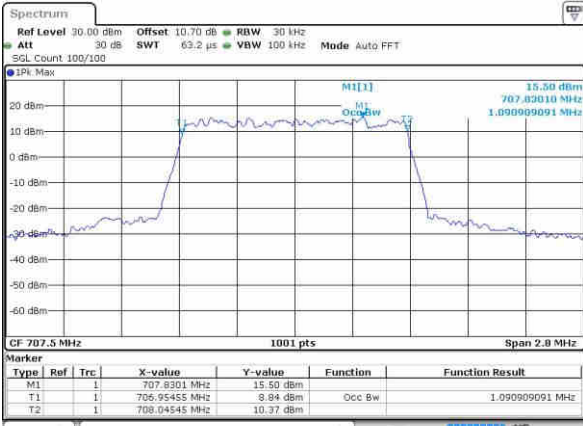
Occupied Bandwidth

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	1.09	2.72	2.73	4.49	4.49	9.03	9.03	-	-	-	-
Middle CH	1.09	1.09	2.71	2.72	4.49	4.50	9.03	9.03	-	-	-	-
Highest CH	1.09	1.09	2.70	2.72	4.47	4.48	9.03	9.03	-	-	-	-
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	-	4.50	-	9.07	-	-	-	-	-
Middle CH	1.09	-	2.71	-	4.47	-	9.09	-	-	-	-	-
Highest CH	1.09	-	2.72	-	4.49	-	8.95	-	-	-	-	-

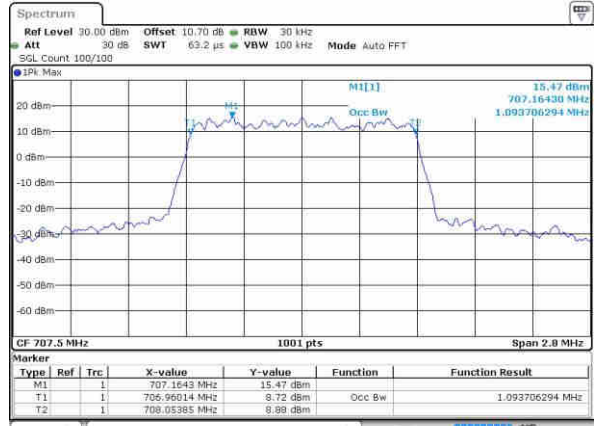


LTE Band 12

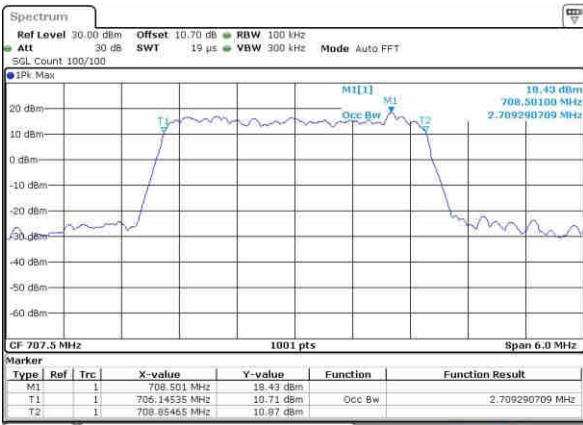
Middle Channel / 1.4MHz / QPSK



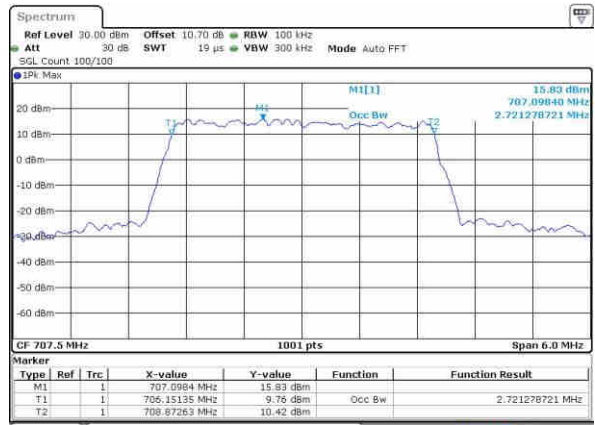
Middle Channel / 1.4MHz / 16QAM



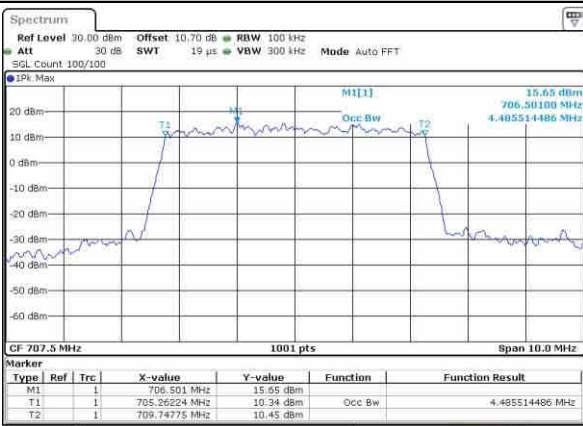
Middle Channel / 3MHz / QPSK



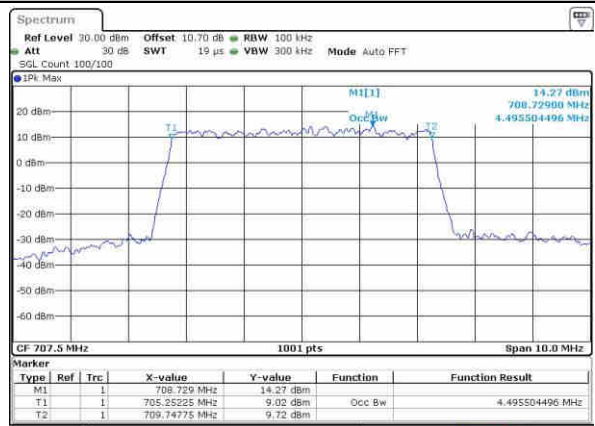
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



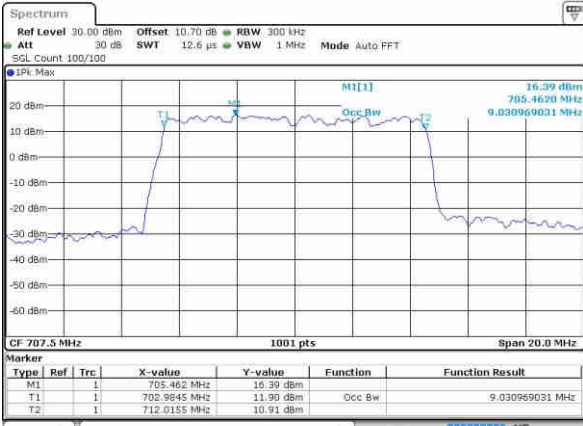
Middle Channel / 5MHz / 16QAM



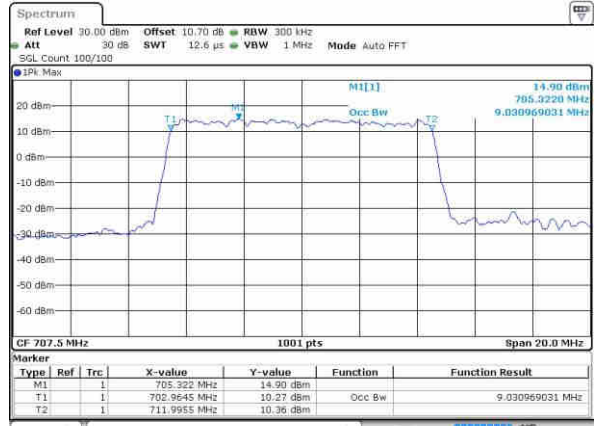


LTE Band 12

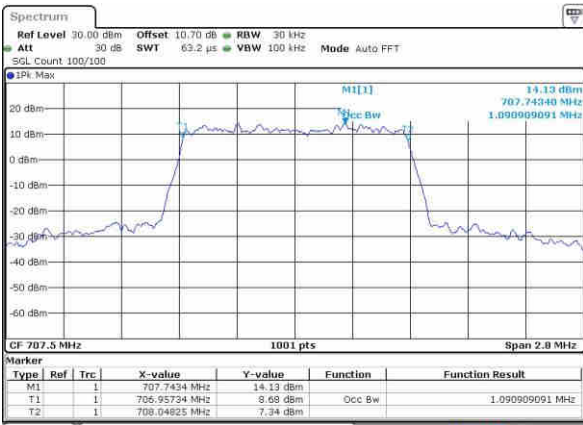
Middle Channel / 10MHz / QPSK



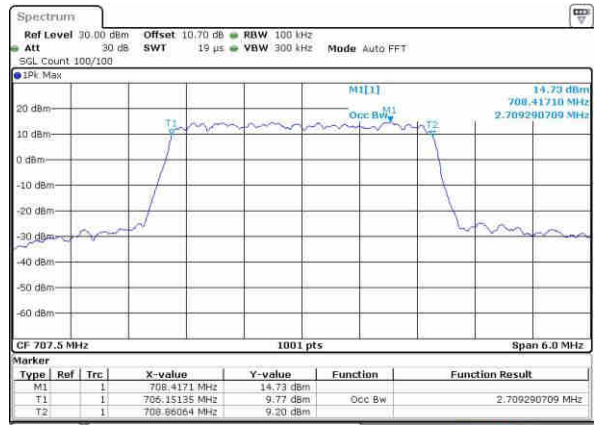
Middle Channel / 10MHz / 16QAM



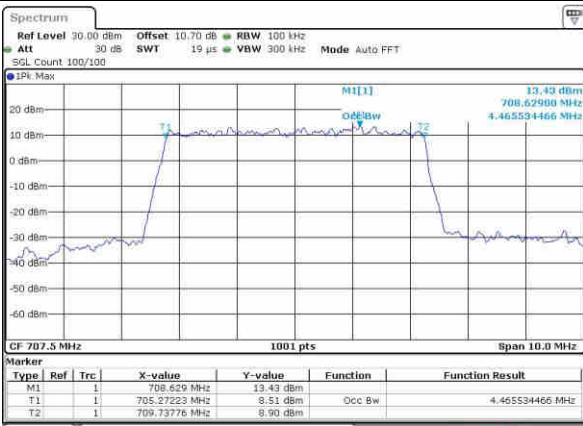
Middle Channel / 1.4MHz / 64QAM



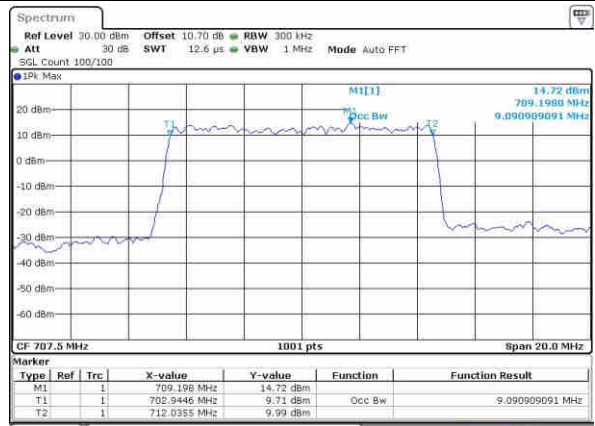
Middle Channel / 3MHz / 64QAM



Middle Channel / 5MHz / 64QAM

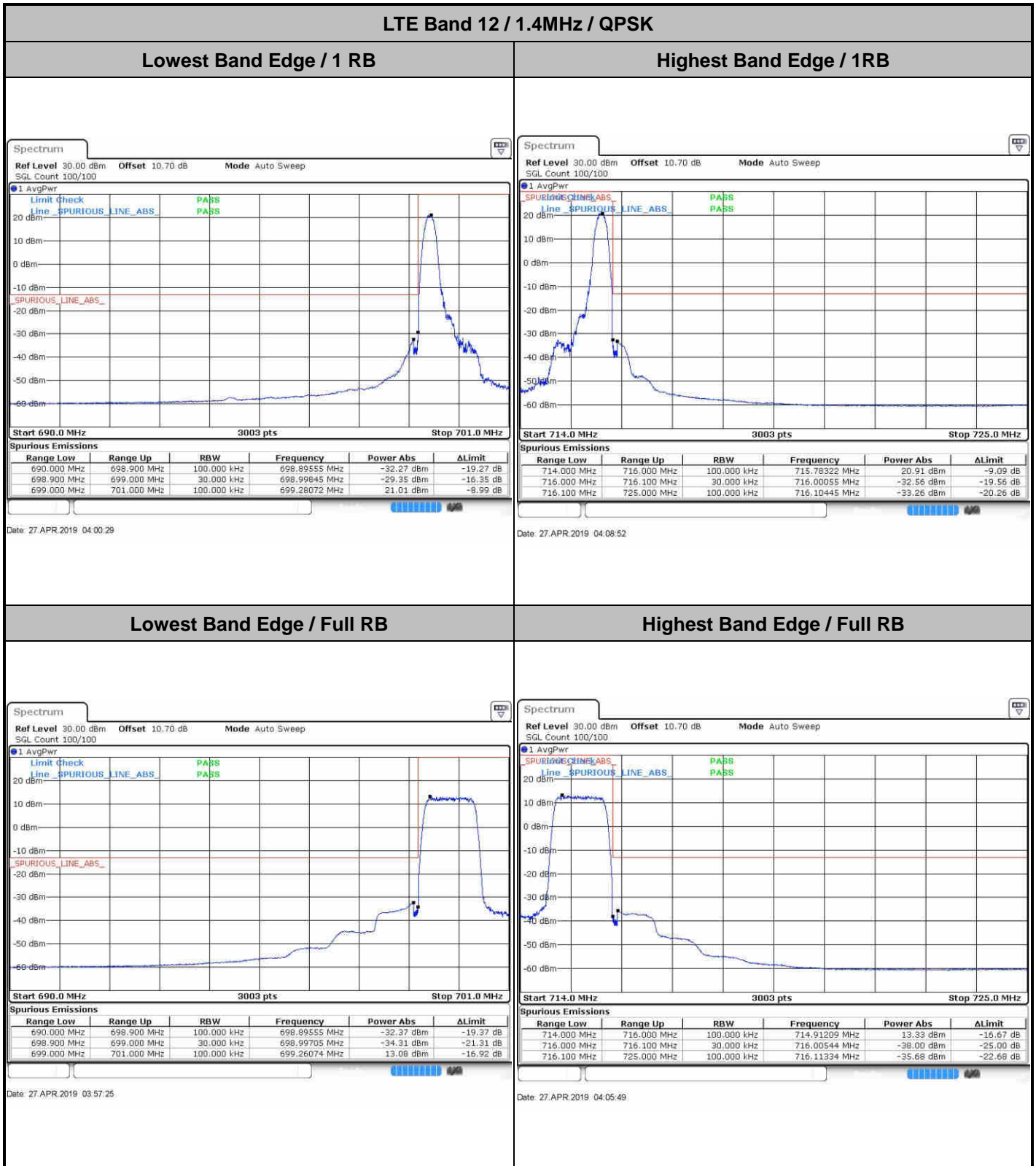


Middle Channel / 10MHz / 64QAM





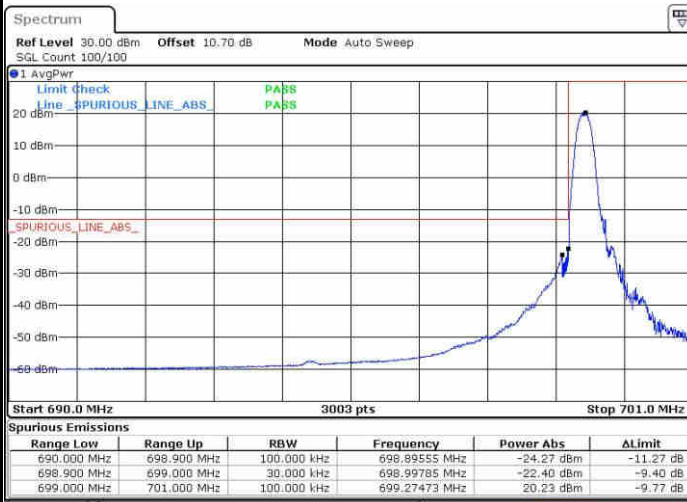
Conducted Band Edge





LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 27 APR 2019 03:59:27

Highest Band Edge / 1 RB



Date: 27 APR 2019 04:07:50

Lowest Band Edge / Full RB



Date: 27 APR 2019 03:58:26

Highest Band Edge / Full RB



Date: 27 APR 2019 04:06:50



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



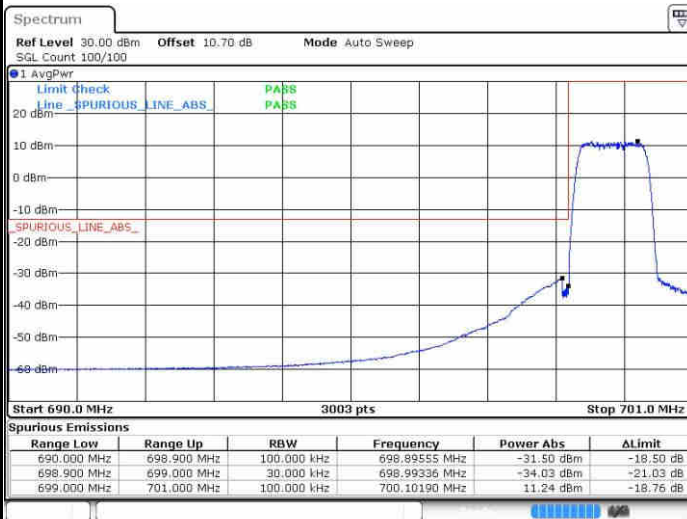
Date: 27 APR 2019 04:12:40

Highest Band Edge / 1 RB



Date: 27 APR 2019 04:16:51

Lowest Band Edge / Full RB



Date: 27 APR 2019 04:11:39

Highest Band Edge / Full RB

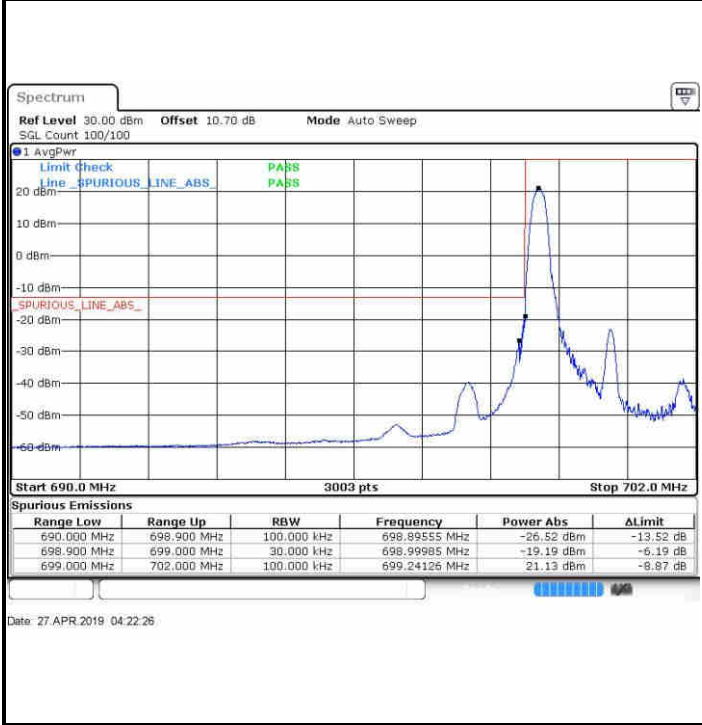


Date: 27 APR 2019 04:15:50



LTE Band 12 / 3MHz / QPSK

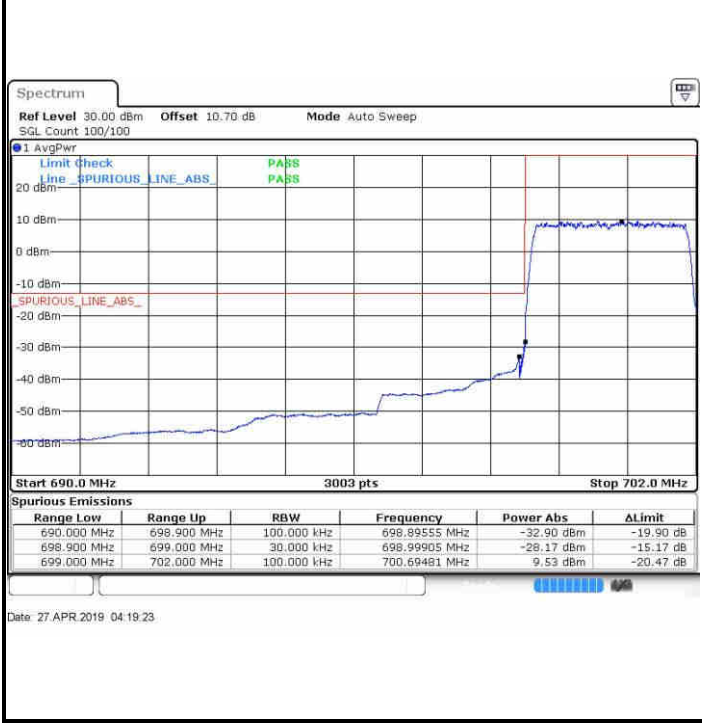
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



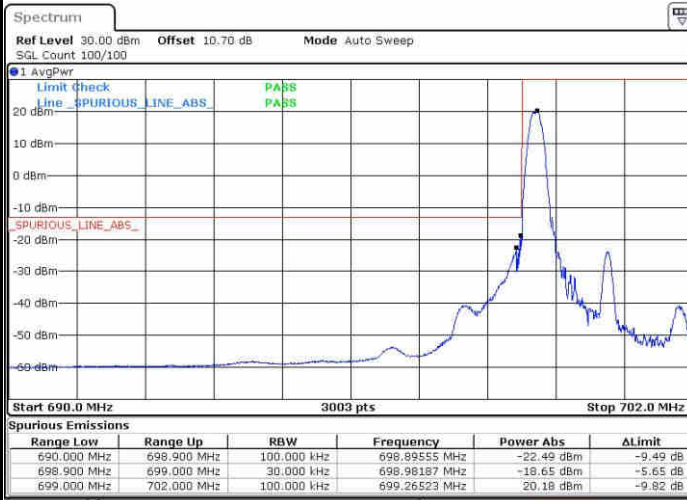
Highest Band Edge / Full RB





LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 27 APR 2019 04:21:25

Highest Band Edge / 1 RB



Date: 27 APR 2019 04:28:48

Lowest Band Edge / Full RB



Date: 27 APR 2019 04:20:24

Highest Band Edge / Full RB



Date: 27 APR 2019 04:28:47