

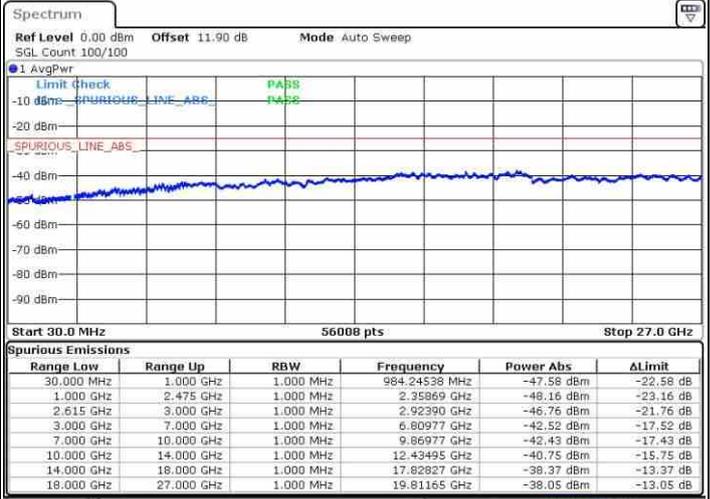
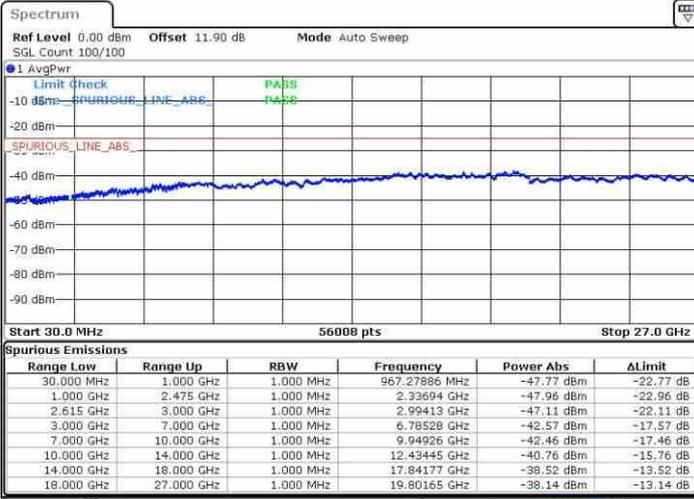


LTE Band 7C / 20MHz+15MHz

64QAM

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0

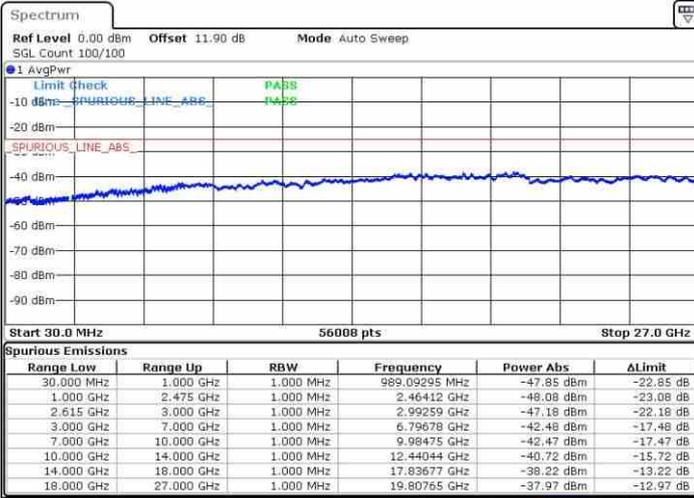


Date: 20 JUN 2019 18:09:23

Date: 20 JUN 2019 18:08:25

Highest Channel / FullIRB

N/A



Date: 20 JUN 2019 18:14:13

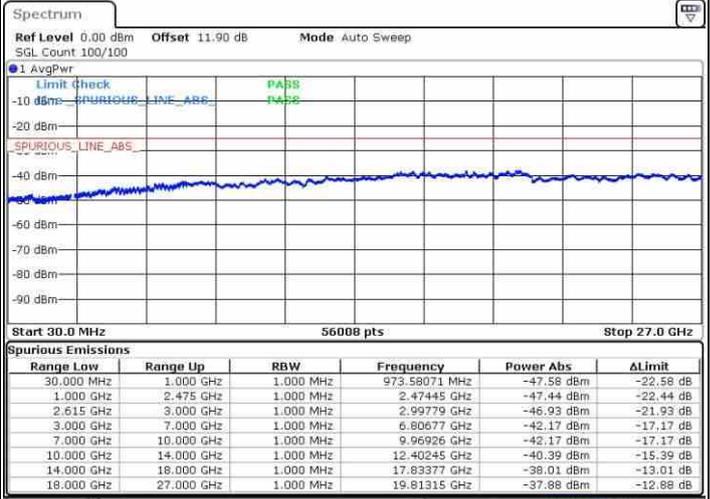
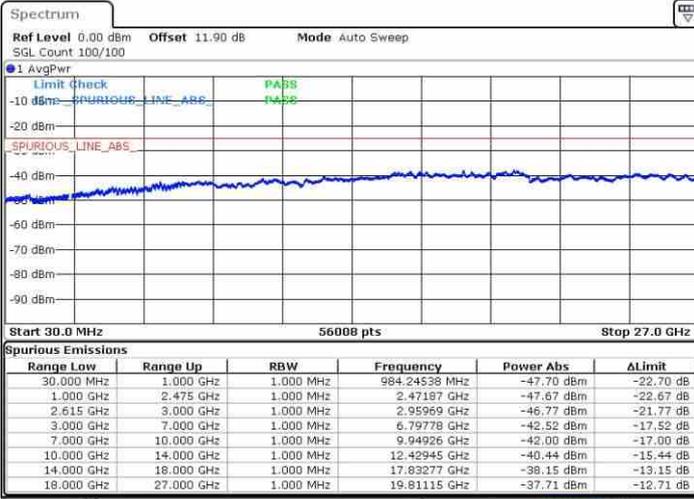


LTE Band 7C / 20MHz+20MHz

64QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0

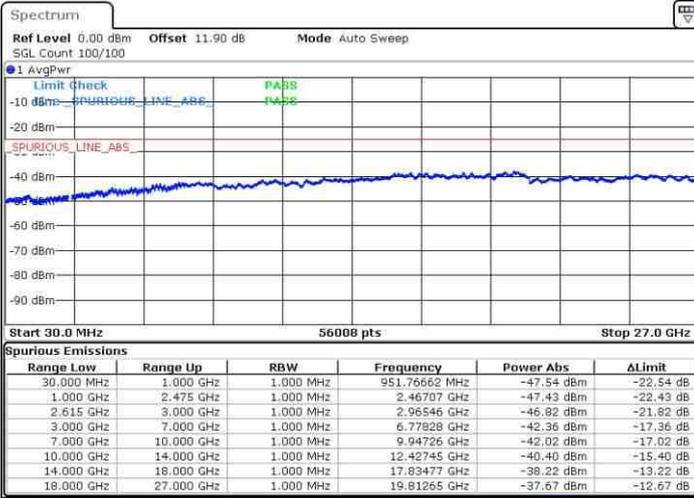


Date: 21 JUN 2019 14:19:52

Date: 21 JUN 2019 14:15:04

Lowest Channel / FullIRB

N/A



Date: 21 JUN 2019 14:20:50

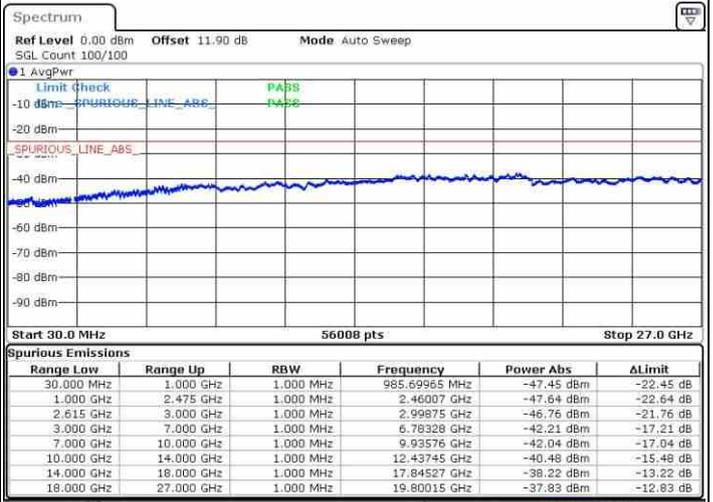
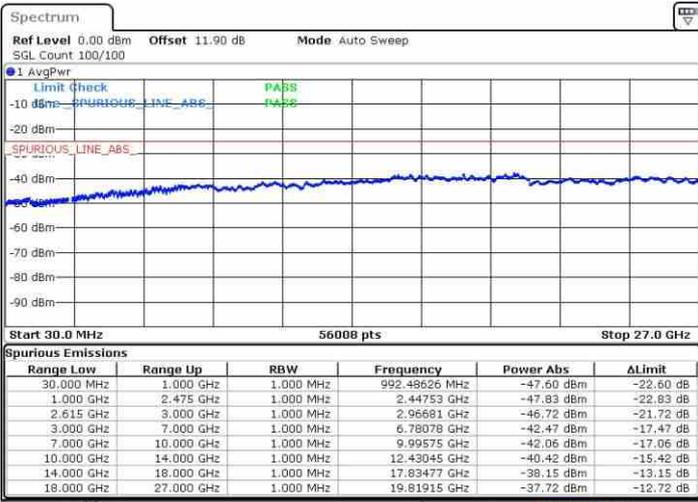


LTE Band 7C / 20MHz+20MHz

64QAM

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0

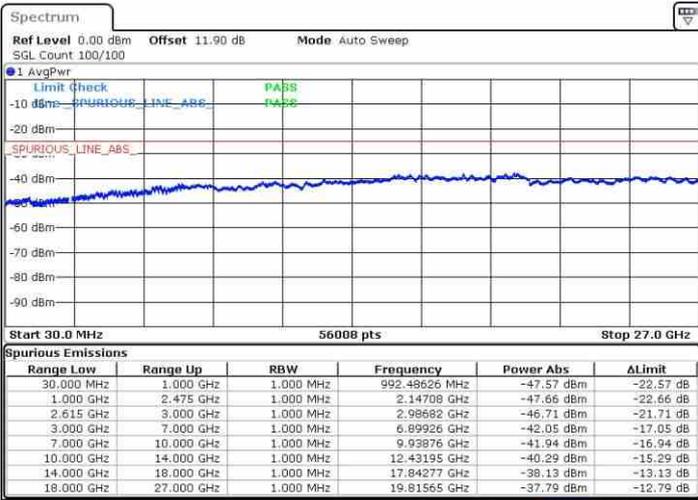


Date: 21 JUN 2019 14:58:07

Date: 21 JUN 2019 15:02:58

Middle Channel / FullIRB

N/A



Date: 21 JUN 2019 14:57:10

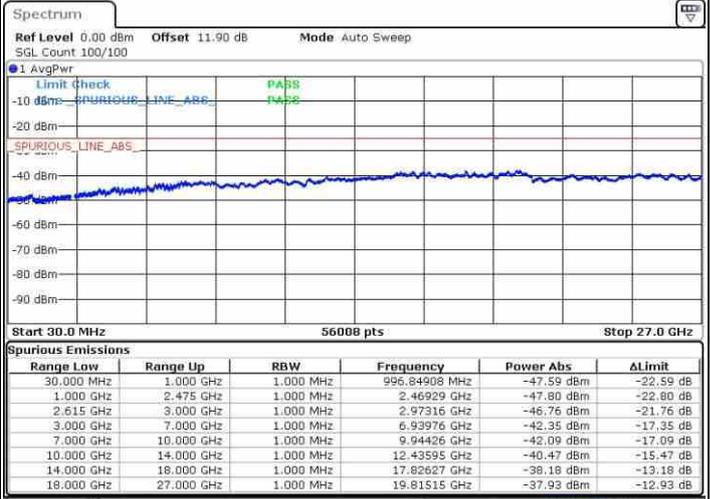
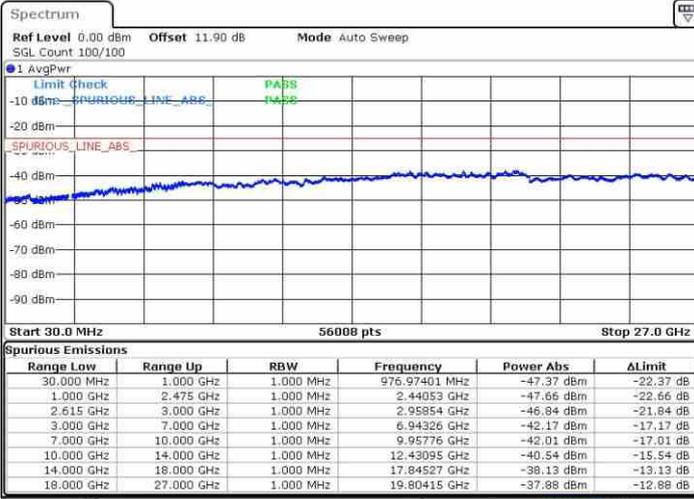


LTE Band 7C / 20MHz+20MHz

64QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0

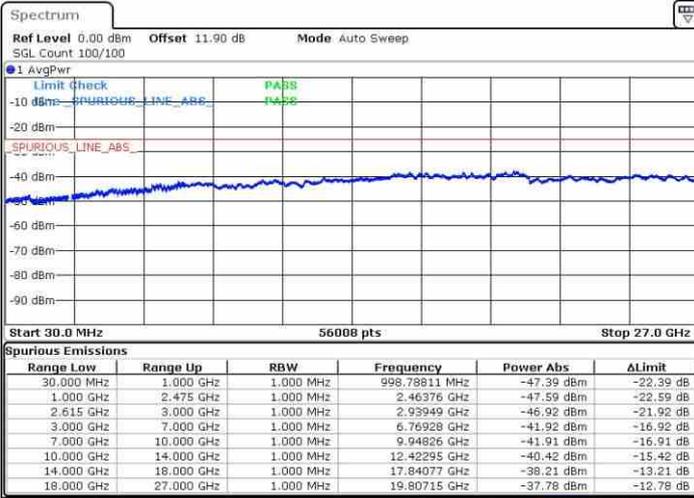


Date: 21 JUN 2019 15:36:04

Date: 21 JUN 2019 15:35:06

Highest Channel / FullIRB

N/A



Date: 21 JUN 2019 15:40:55



# 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	3.62	5.25	4.00	6.09	PASS
Middle CH	3.77	5.19	4.32	6.17	
Highest CH	3.80	5.13	4.32	6.03	
Mode	LTE Band 12 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.04	6.58	-	-	PASS
Middle CH	5.39	6.72	-	-	
Highest CH	5.30	6.58	-	-	



LTE Band 12 / 10MHz / QPSK

Lowest Channel / 1RB



Date: 22.MAY.2019 03:09:01

Lowest Channel / Full RB



Date: 22.MAY.2019 03:08:26

Middle Channel / 1RB



Date: 22.MAY.2019 03:09:23

Middle Channel / Full RB



Date: 22.MAY.2019 03:09:54

Highest Channel / 1RB



Date: 22.MAY.2019 03:10:16

Highest Channel / Full RB



Date: 22.MAY.2019 03:10:05



LTE Band 12 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 22.MAY.2019 03:06:01

Lowest Channel / Full RB



Date: 22.MAY.2019 03:05:18

Middle Channel / 1RB



Date: 22.MAY.2019 03:06:28

Middle Channel / Full RB



Date: 22.MAY.2019 03:06:46

Highest Channel / 1RB



Date: 22.MAY.2019 03:07:45

Highest Channel / Full RB

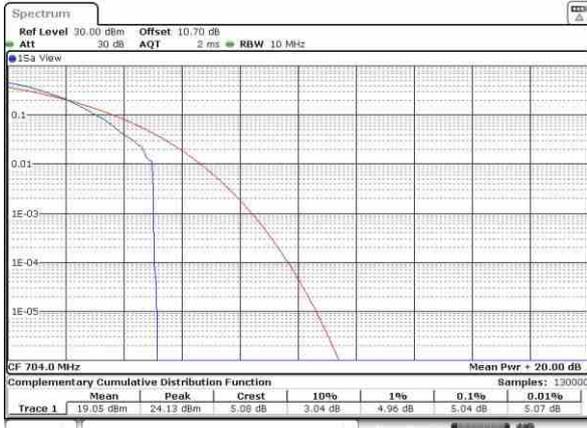


Date: 22.MAY.2019 03:06:58



LTE Band 12 / 10MHz / 64QAM

Lowest Channel / 1RB



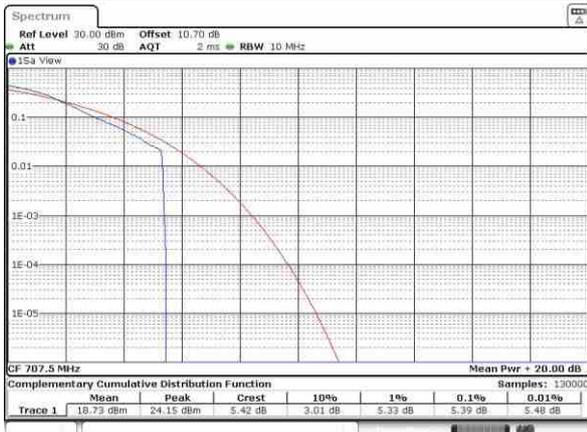
Date: 22.MAY.2019 03:02:37

Lowest Channel / Full RB



Date: 22.MAY.2019 03:02:26

Middle Channel / 1RB



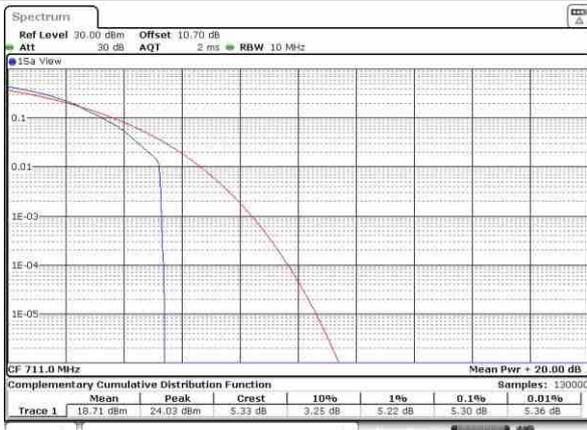
Date: 22.MAY.2019 03:02:48

Middle Channel / Full RB



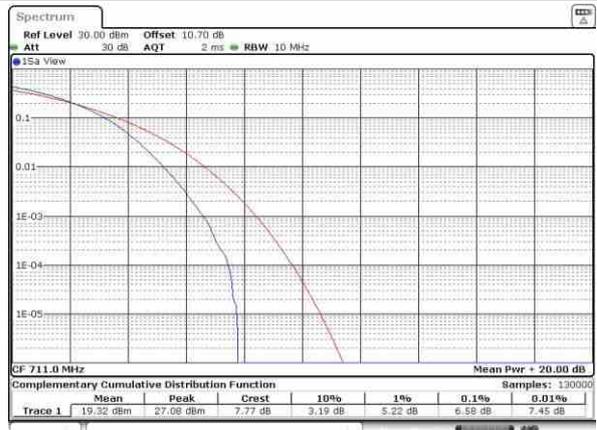
Date: 22.MAY.2019 03:03:39

Highest Channel / 1RB



Date: 22.MAY.2019 03:04:35

Highest Channel / Full RB



Date: 22.MAY.2019 03:04:03



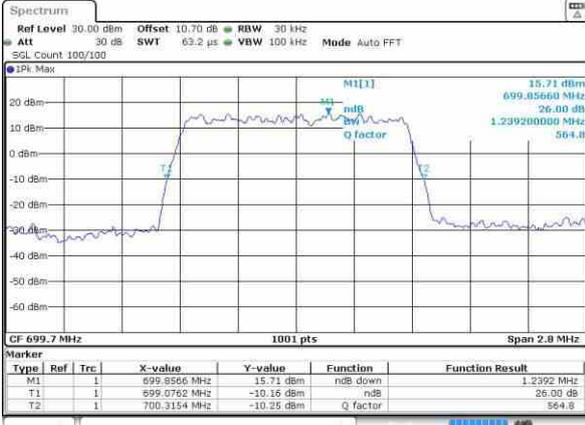
**26dB Bandwidth**

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	1.24	3.04	3.04	4.97	4.92	9.71	9.77	-	-	-	-
Middle CH	1.22	1.21	2.99	3.00	4.99	4.93	9.89	9.71	-	-	-	-
Highest CH	1.23	1.23	3.03	3.05	4.93	4.94	9.77	9.87	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.24	-	3.01	-	4.92	-	9.93	-	-	-	-	-
Middle CH	1.24	-	3.06	-	4.91	-	9.75	-	-	-	-	-
Highest CH	1.24	-	3.08	-	4.82	-	9.85	-	-	-	-	-



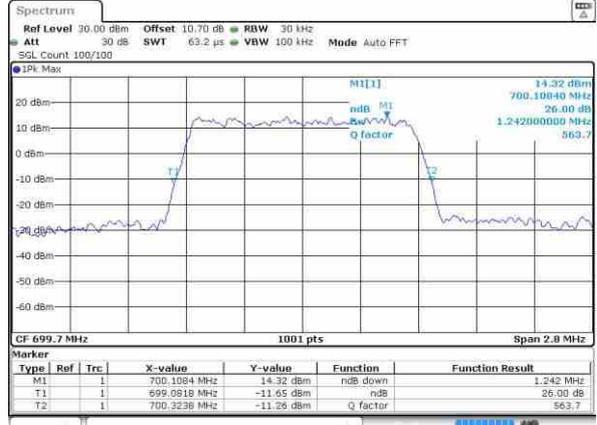
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



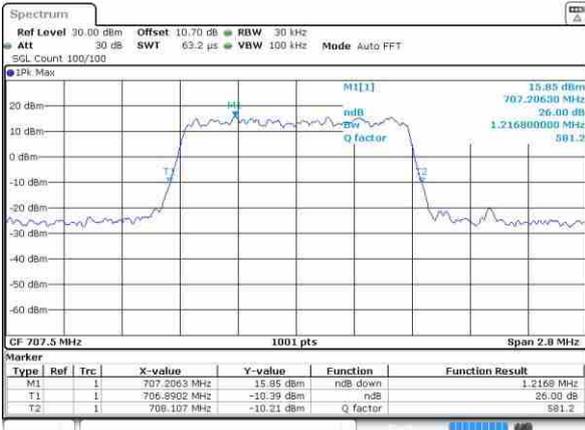
Date: 21 MAY 2019 22:20:43

Lowest Channel / 1.4MHz / 16QAM



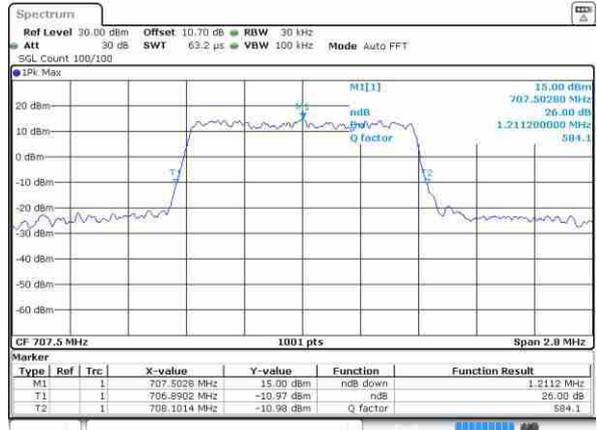
Date: 21 MAY 2019 22:20:30

Middle Channel / 1.4MHz / QPSK



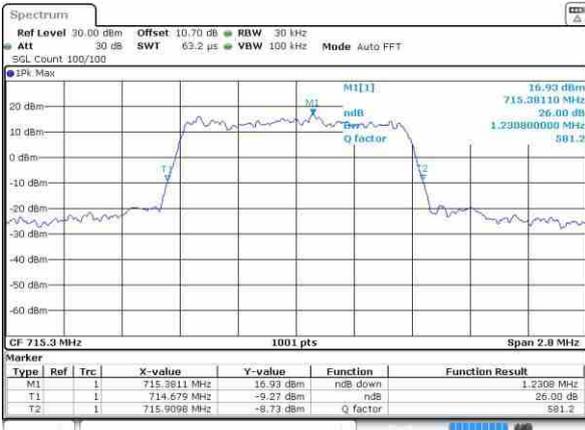
Date: 21 MAY 2019 22:26:55

Middle Channel / 1.4MHz / 16QAM



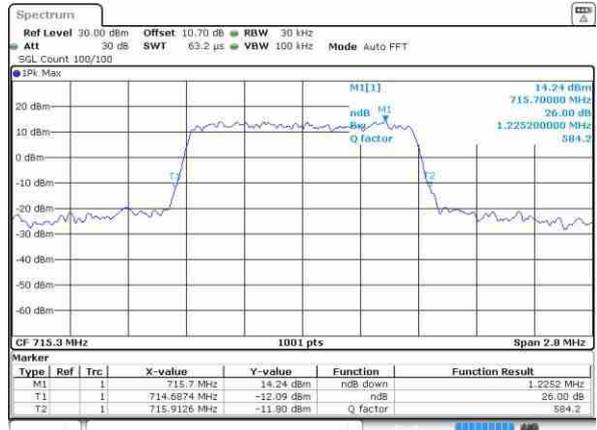
Date: 21 MAY 2019 22:27:07

Highest Channel / 1.4MHz / QPSK



Date: 21 MAY 2019 22:29:27

Highest Channel / 1.4MHz / 16QAM

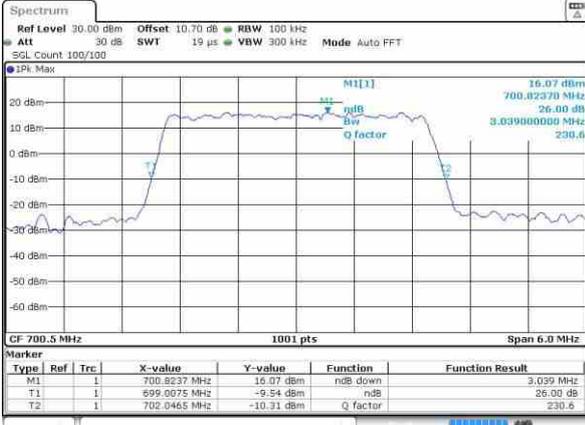


Date: 21 MAY 2019 22:29:15



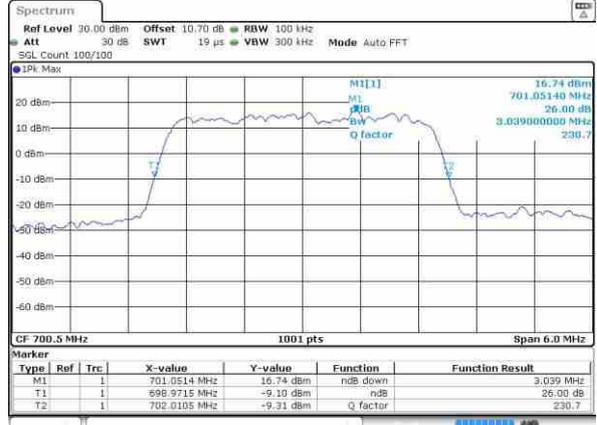
LTE Band 12

Lowest Channel / 3MHz / QPSK



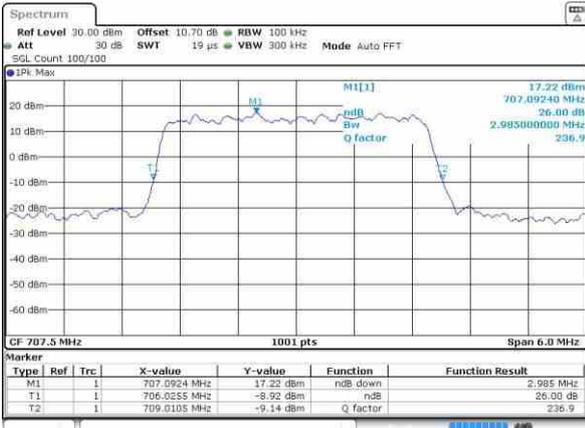
Date: 21 MAY 2019 22:43:29

Lowest Channel / 3MHz / 16QAM



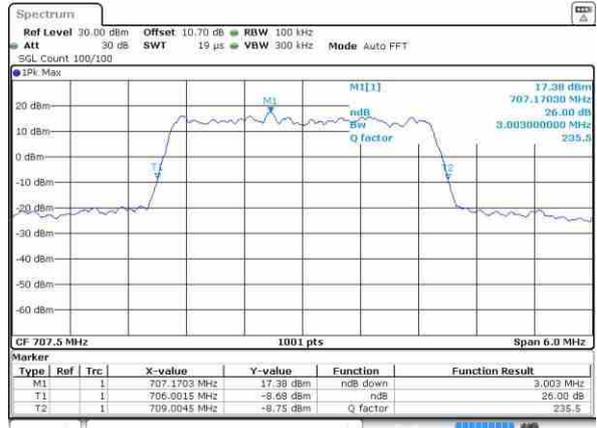
Date: 21 MAY 2019 22:43:17

Middle Channel / 3MHz / QPSK



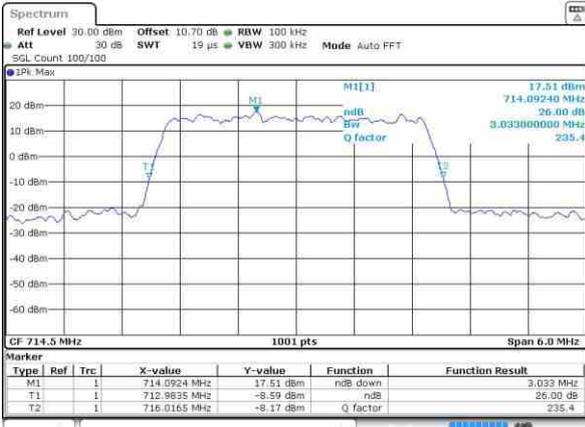
Date: 21 MAY 2019 22:48:41

Middle Channel / 3MHz / 16QAM



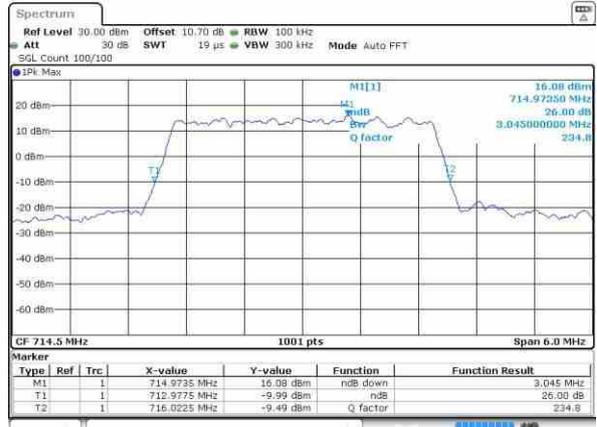
Date: 21 MAY 2019 22:48:53

Highest Channel / 3MHz / QPSK



Date: 21 MAY 2019 22:52:14

Highest Channel / 3MHz / 16QAM

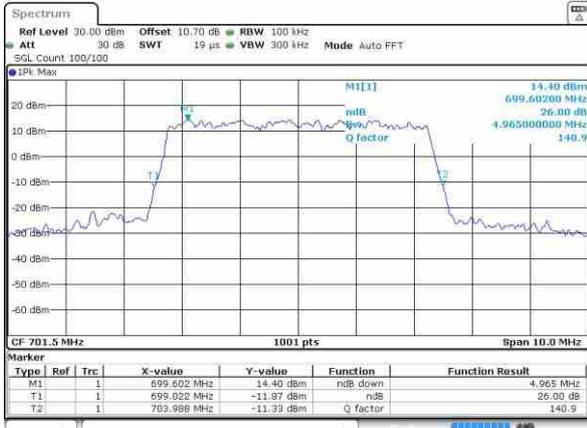


Date: 21 MAY 2019 22:52:01



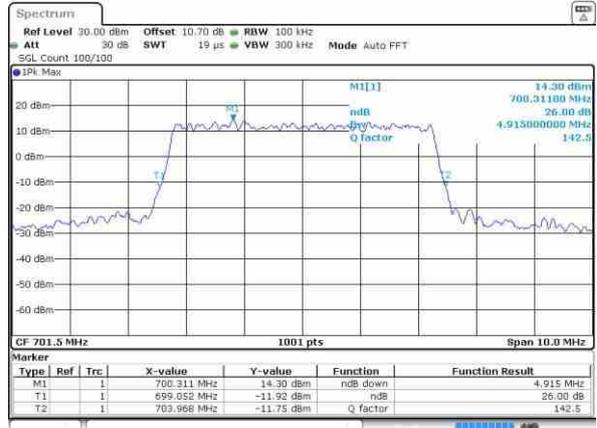
LTE Band 12

Lowest Channel / 5MHz / QPSK



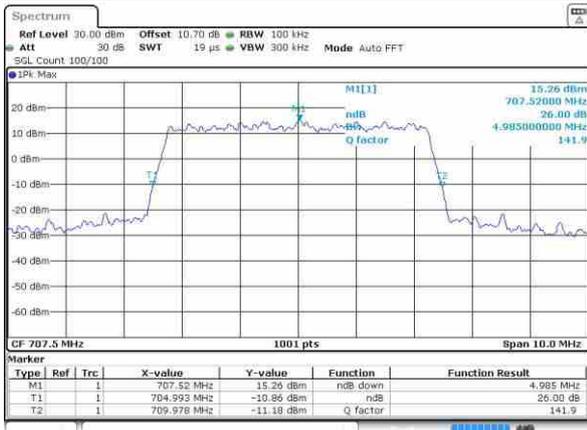
Date: 22.MAY.2019 02:23:12

Lowest Channel / 5MHz / 16QAM



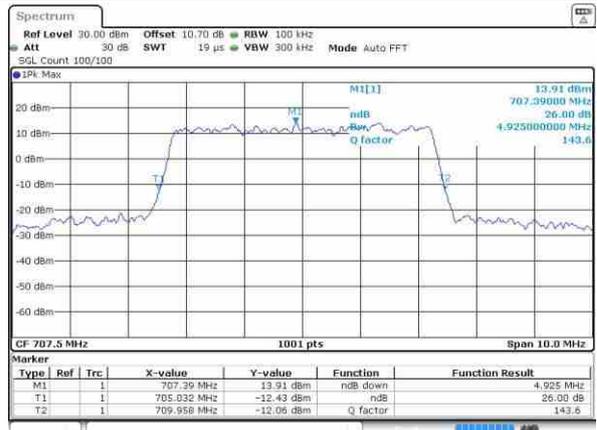
Date: 22.MAY.2019 02:23:00

Middle Channel / 5MHz / QPSK



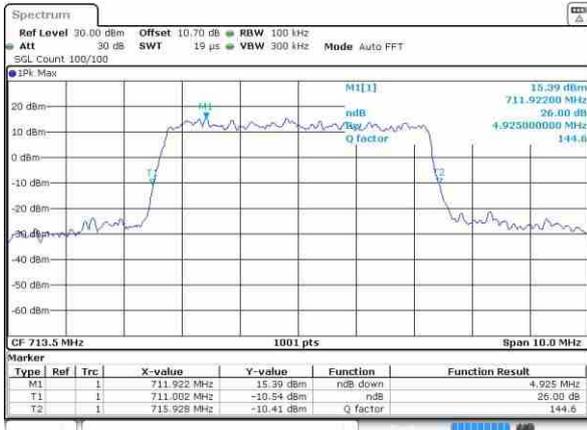
Date: 22.MAY.2019 02:28:25

Middle Channel / 5MHz / 16QAM



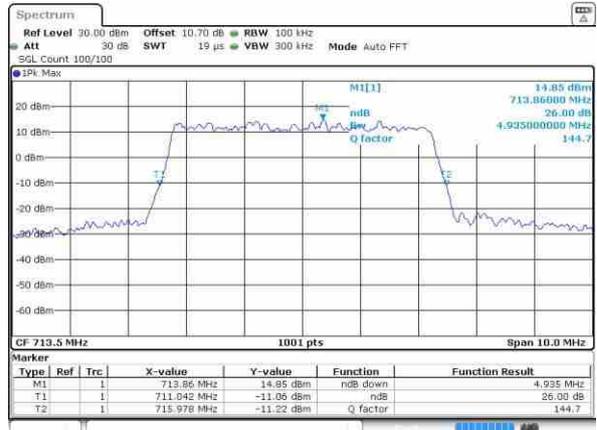
Date: 22.MAY.2019 02:29:36

Highest Channel / 5MHz / QPSK



Date: 22.MAY.2019 02:31:57

Highest Channel / 5MHz / 16QAM

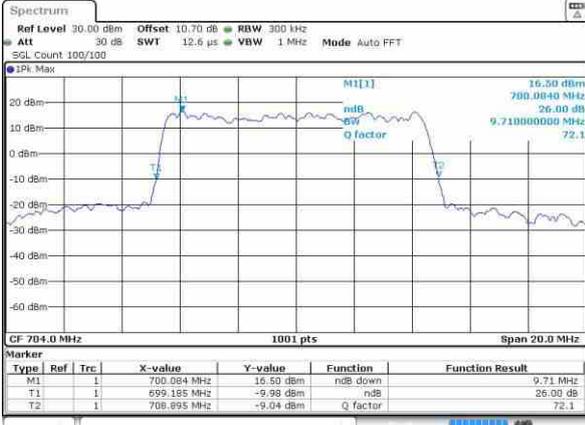


Date: 22.MAY.2019 02:31:44



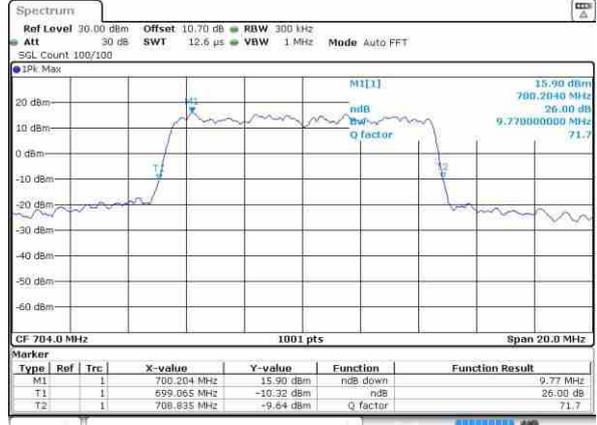
LTE Band 12

Lowest Channel / 10MHz / QPSK



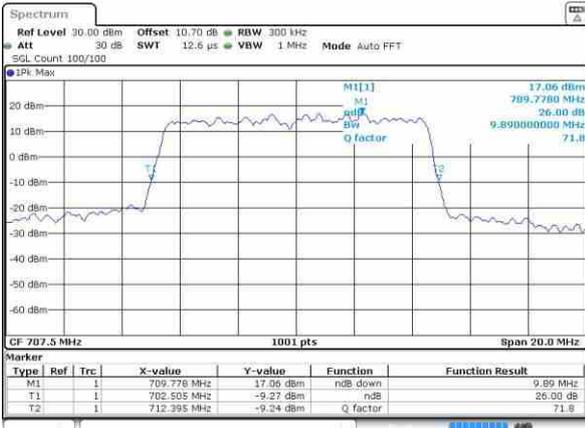
Date: 22.MAY.2019 02:38:23

Lowest Channel / 10MHz / 16QAM



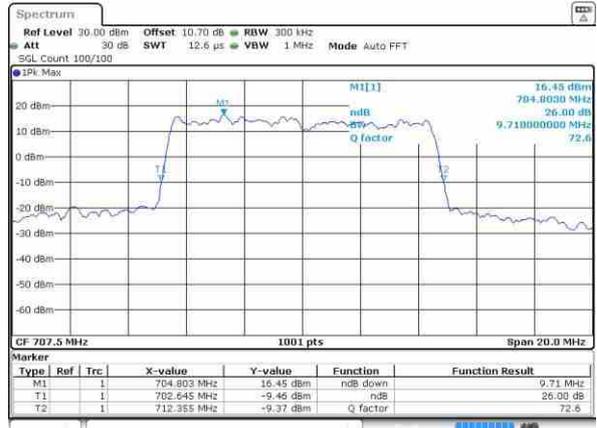
Date: 22.MAY.2019 02:38:11

Middle Channel / 10MHz / QPSK



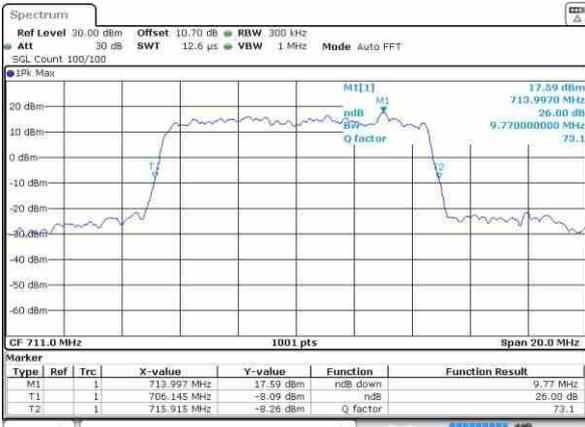
Date: 22.MAY.2019 02:44:35

Middle Channel / 10MHz / 16QAM



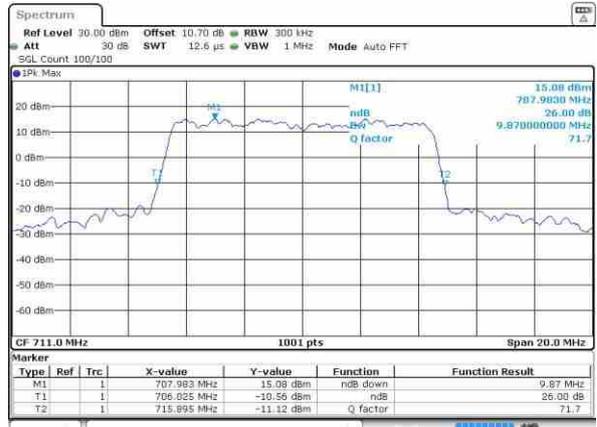
Date: 22.MAY.2019 02:44:47

Highest Channel / 10MHz / QPSK



Date: 22.MAY.2019 02:47:07

Highest Channel / 10MHz / 16QAM

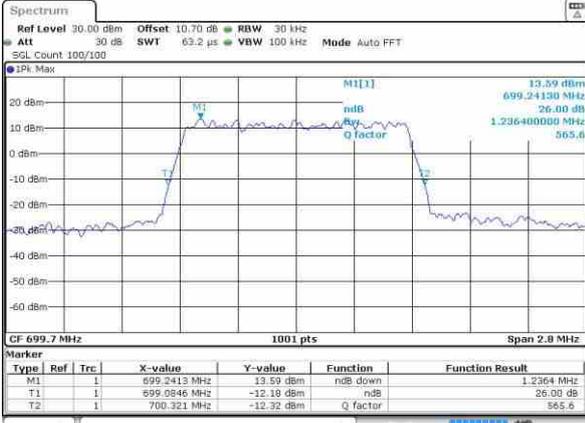


Date: 22.MAY.2019 02:46:56



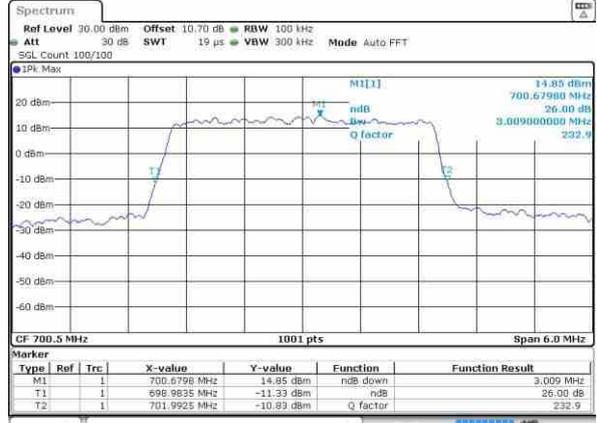
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



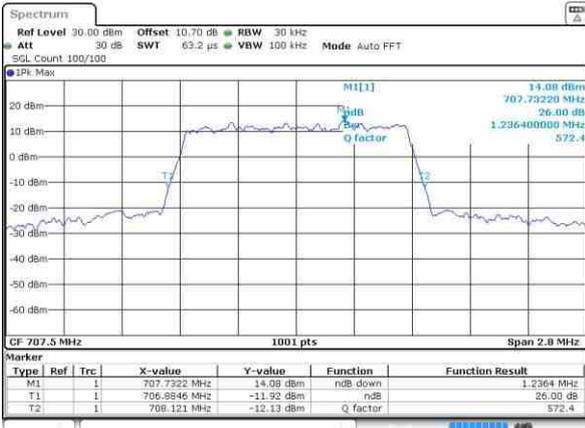
Date: 21 MAY 2019 22:35:29

Lowest Channel / 3MHz / 64QAM



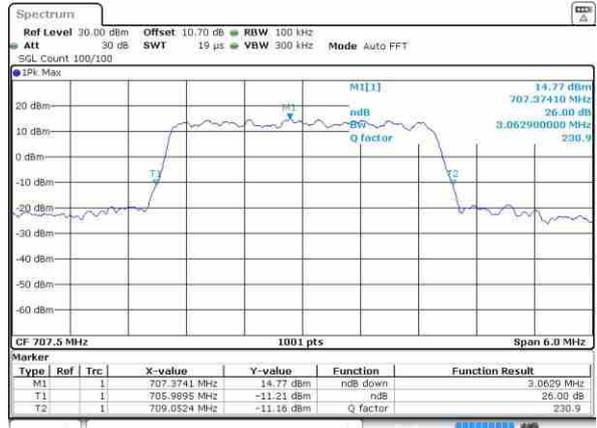
Date: 21 MAY 2019 22:58:15

Middle Channel / 1.4MHz / 64QAM



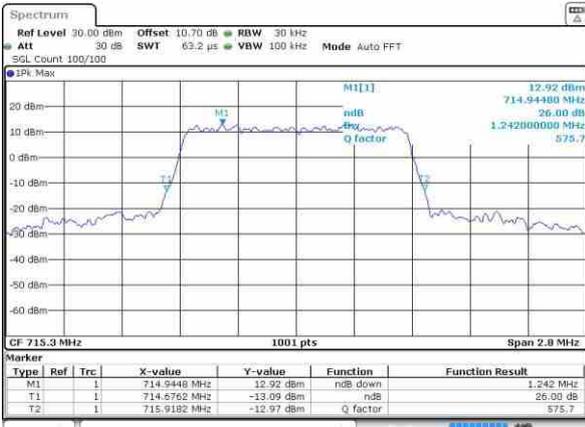
Date: 21 MAY 2019 22:38:41

Middle Channel / 3MHz / 64QAM



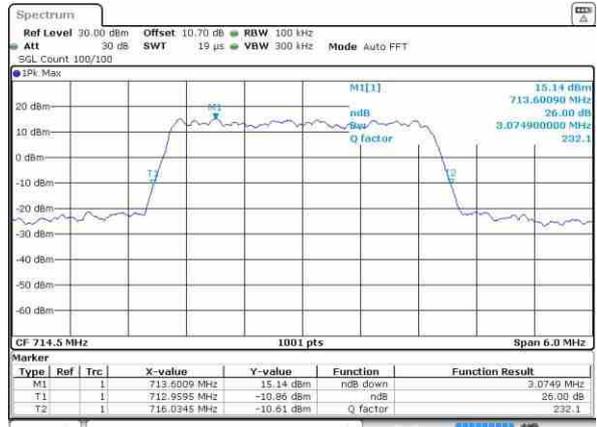
Date: 21 MAY 2019 23:01:27

Highest Channel / 1.4MHz / 64QAM



Date: 21 MAY 2019 22:39:51

Highest Channel / 3MHz / 64QAM

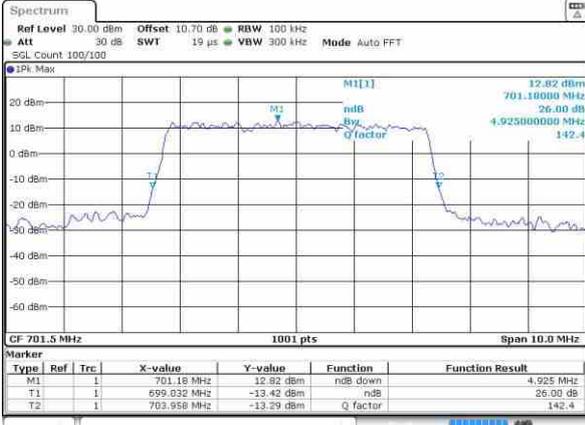


Date: 22 MAY 2019 02:11:57



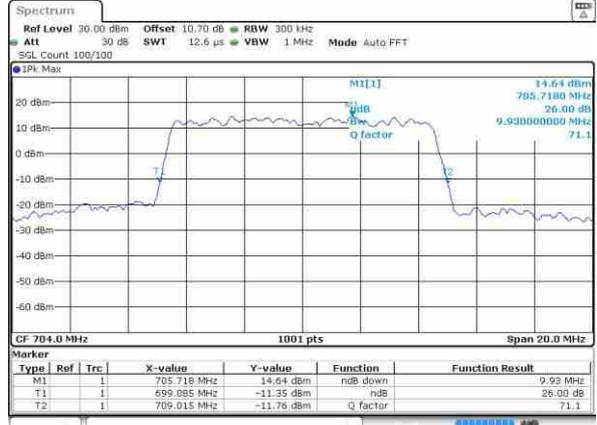
LTE Band 12

Lowest Channel / 5MHz / 64QAM



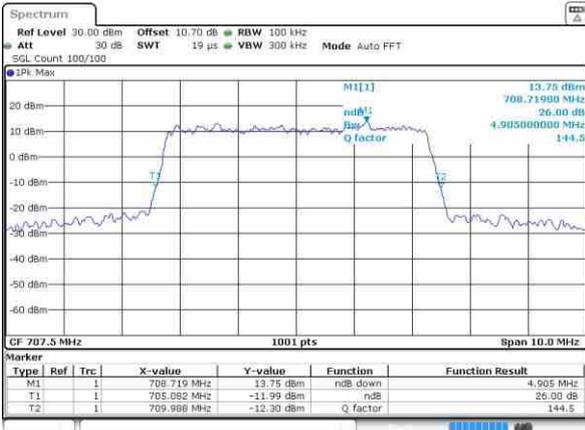
Date: 22.MAY.2019 02:15:11

Lowest Channel / 10MHz / 64QAM



Date: 22.MAY.2019 02:53:08

Middle Channel / 5MHz / 64QAM



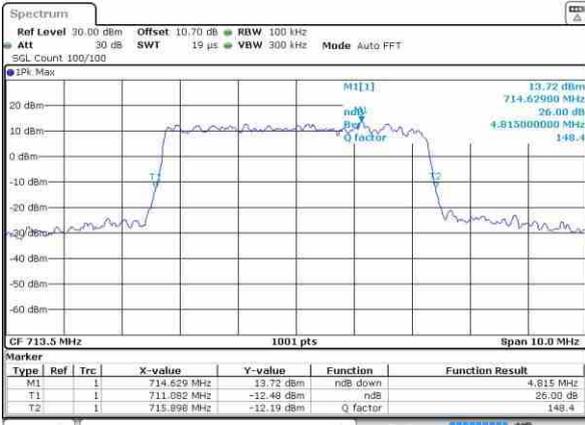
Date: 22.MAY.2019 02:18:23

Middle Channel / 10MHz / 64QAM



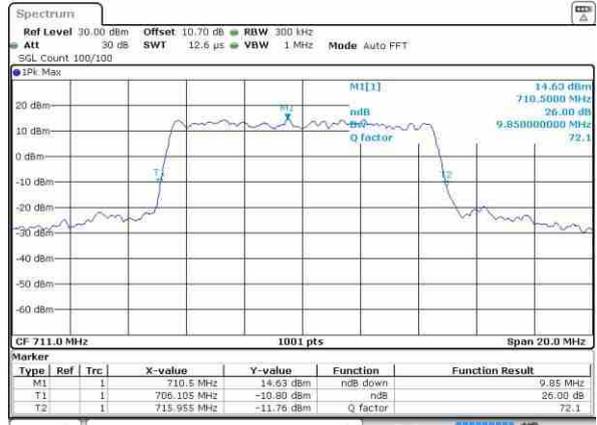
Date: 22.MAY.2019 02:56:20

Highest Channel / 5MHz / 64QAM



Date: 22.MAY.2019 02:19:33

Highest Channel / 10MHz / 64QAM



Date: 22.MAY.2019 02:57:30



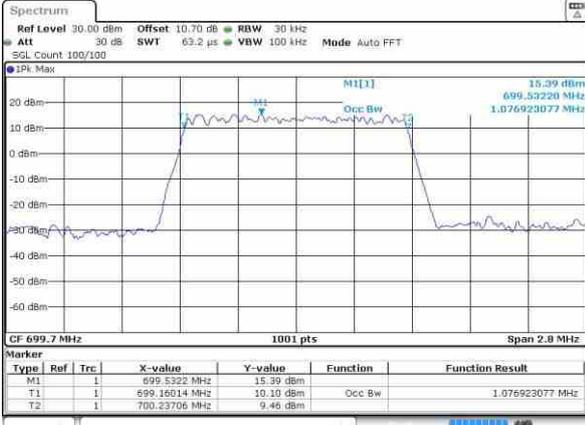
**Occupied Bandwidth**

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	2.73	2.71	4.50	4.50	9.07	9.05	-	-	-	-
Middle CH	1.10	1.09	2.71	2.74	4.50	4.48	9.05	9.01	-	-	-	-
Highest CH	1.09	1.09	2.73	2.72	4.49	4.49	9.05	9.01	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.10	-	2.72	-	4.49	-	9.03	-	-	-	-	-
Middle CH	1.09	-	2.73	-	4.49	-	9.01	-	-	-	-	-
Highest CH	1.08	-	2.73	-	4.48	-	9.01	-	-	-	-	-



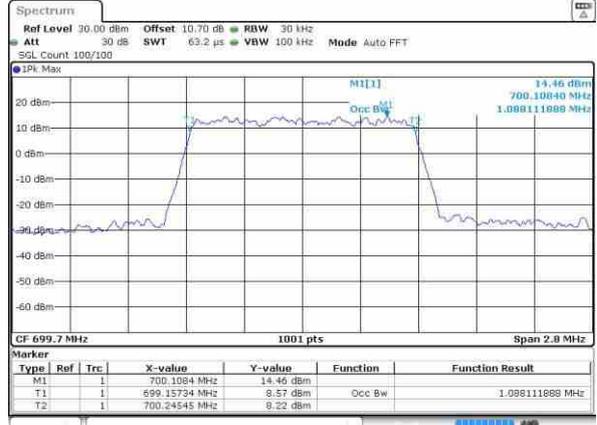
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



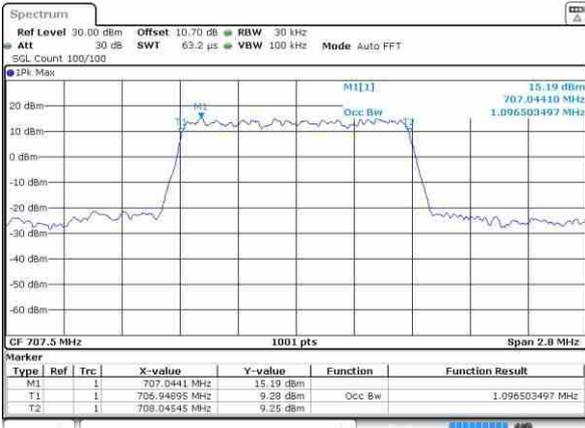
Date: 21 MAY 2019 22:20:06

Lowest Channel / 1.4MHz / 16QAM



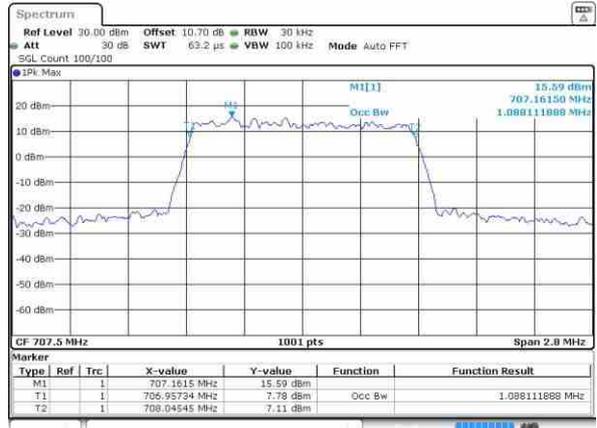
Date: 21 MAY 2019 22:20:18

Middle Channel / 1.4MHz / QPSK



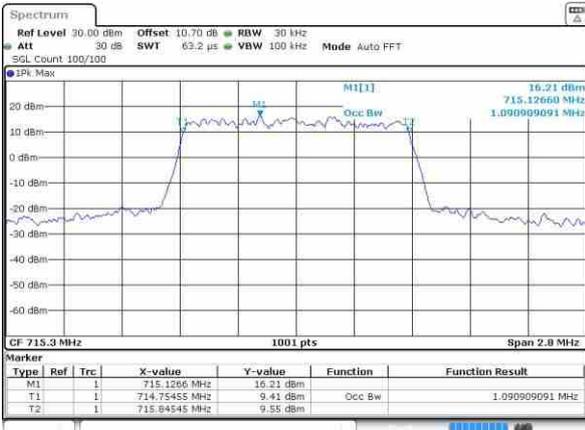
Date: 21 MAY 2019 22:26:44

Middle Channel / 1.4MHz / 16QAM



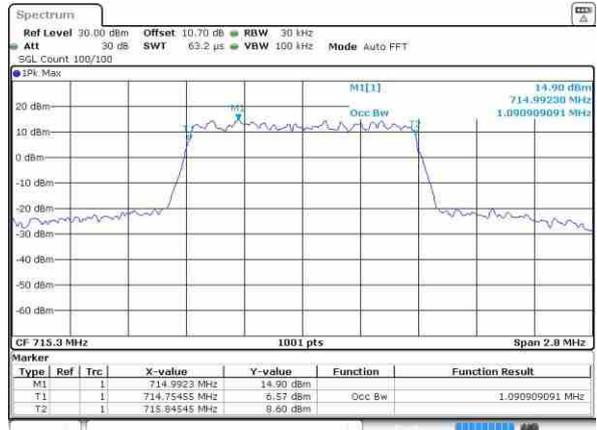
Date: 21 MAY 2019 22:26:32

Highest Channel / 1.4MHz / QPSK



Date: 21 MAY 2019 22:28:50

Highest Channel / 1.4MHz / 16QAM

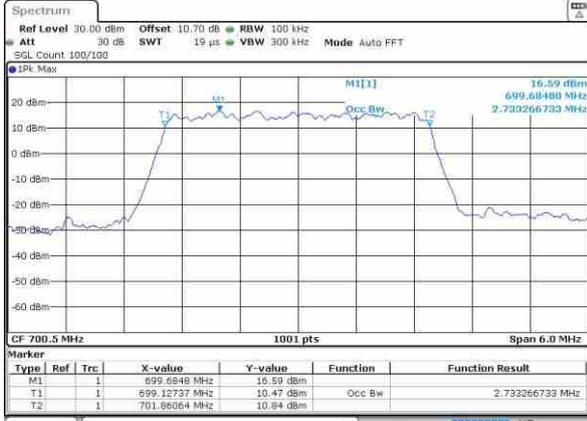


Date: 21 MAY 2019 22:29:03



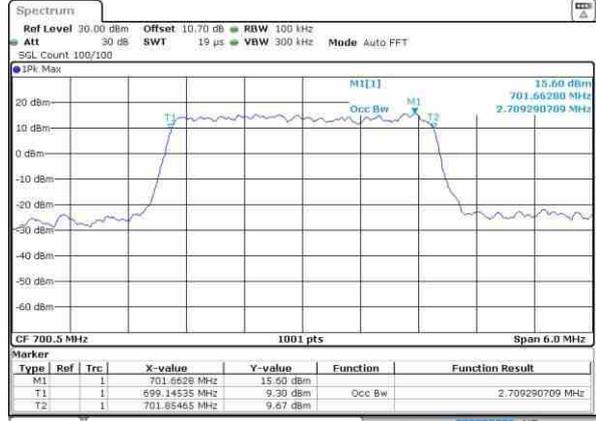
LTE Band 12

Lowest Channel / 3MHz / QPSK



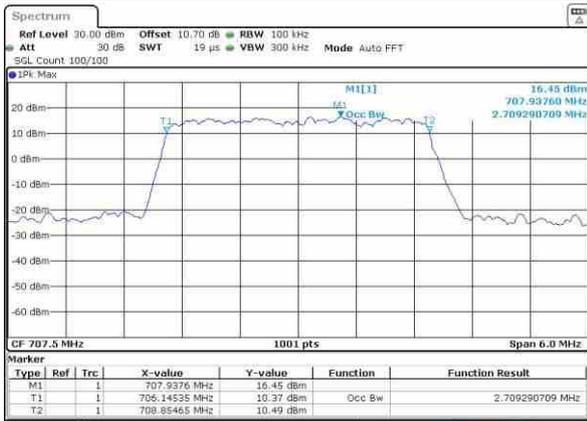
Date: 21 MAY 2019 22:42:52

Lowest Channel / 3MHz / 16QAM



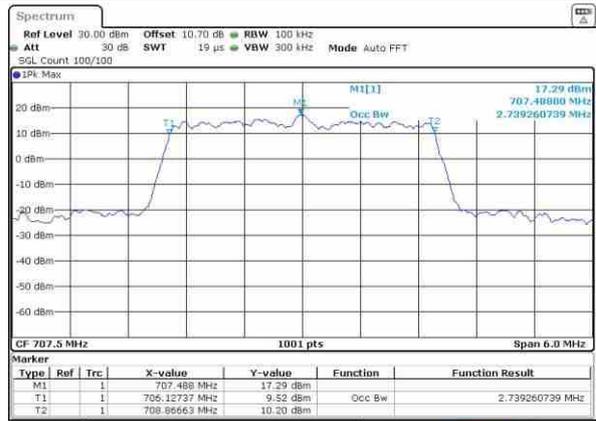
Date: 21 MAY 2019 22:43:04

Middle Channel / 3MHz / QPSK



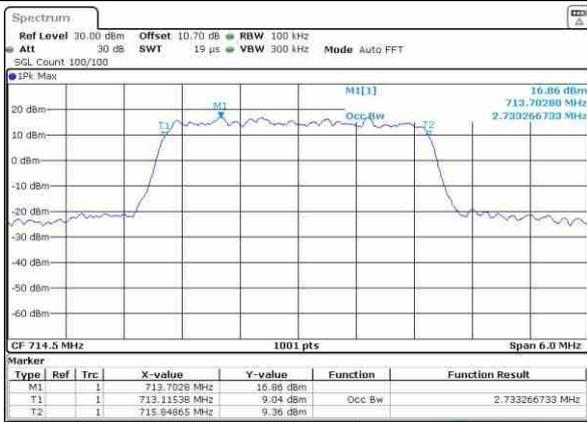
Date: 21 MAY 2019 22:48:30

Middle Channel / 3MHz / 16QAM



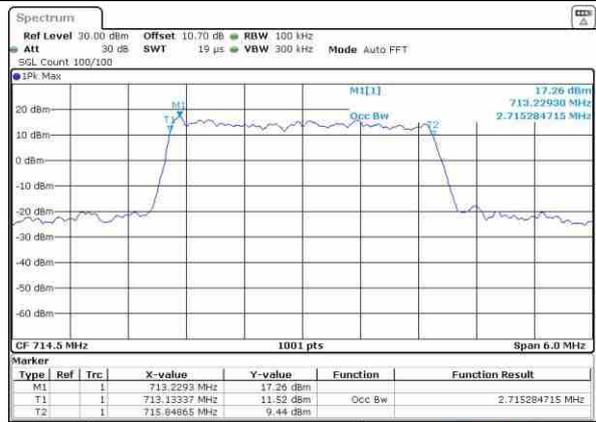
Date: 21 MAY 2019 22:48:18

Highest Channel / 3MHz / QPSK



Date: 21 MAY 2019 22:51:36

Highest Channel / 3MHz / 16QAM

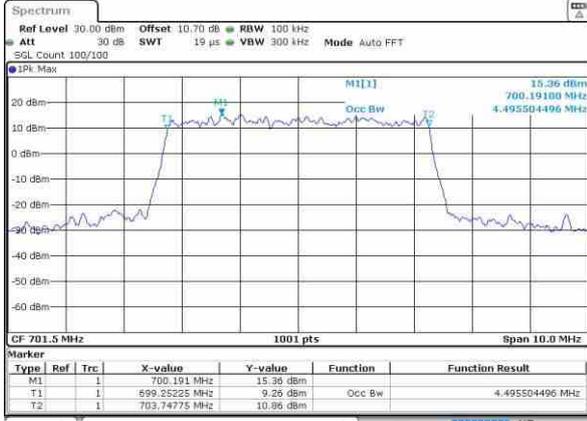


Date: 21 MAY 2019 22:51:49



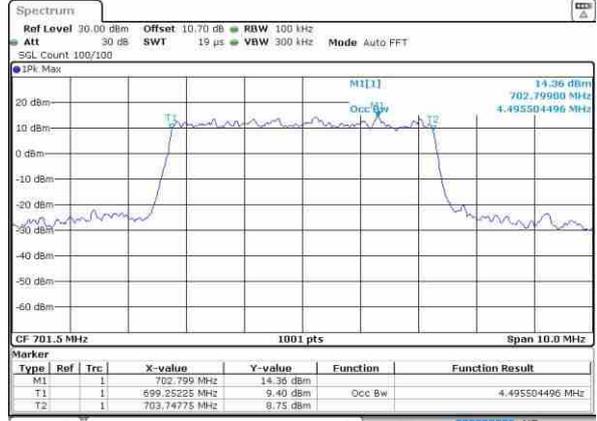
LTE Band 12

Lowest Channel / 5MHz / QPSK



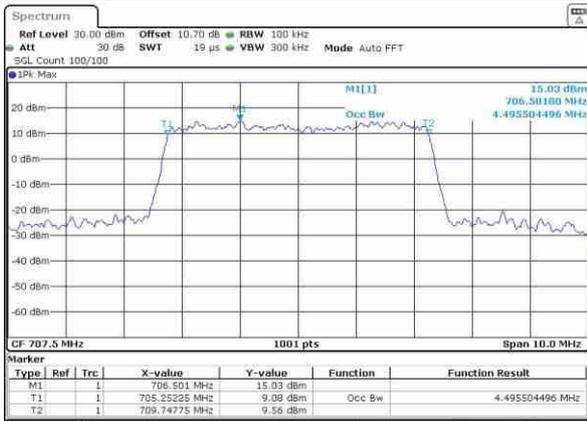
Date: 22.MAY.2019 02:22:35

Lowest Channel / 5MHz / 16QAM



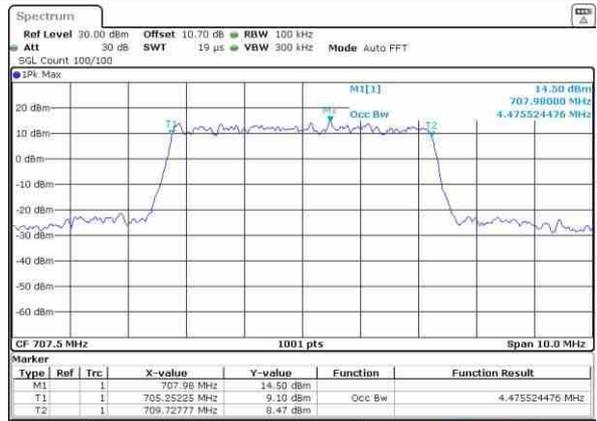
Date: 22.MAY.2019 02:22:47

Middle Channel / 5MHz / QPSK



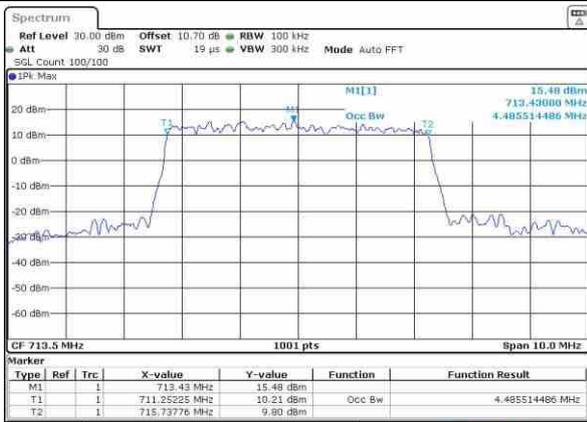
Date: 22.MAY.2019 02:28:13

Middle Channel / 5MHz / 16QAM



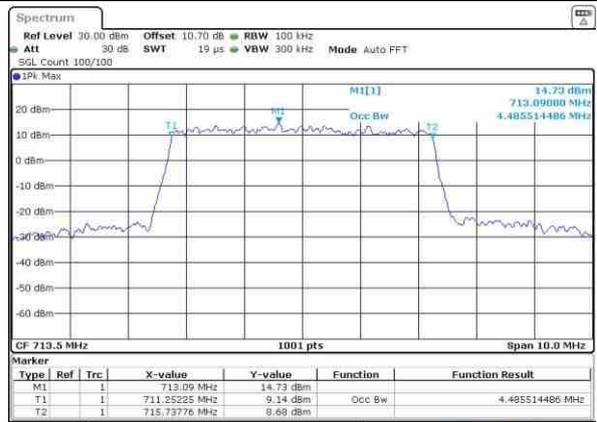
Date: 22.MAY.2019 02:29:01

Highest Channel / 5MHz / QPSK



Date: 22.MAY.2019 02:31:19

Highest Channel / 5MHz / 16QAM

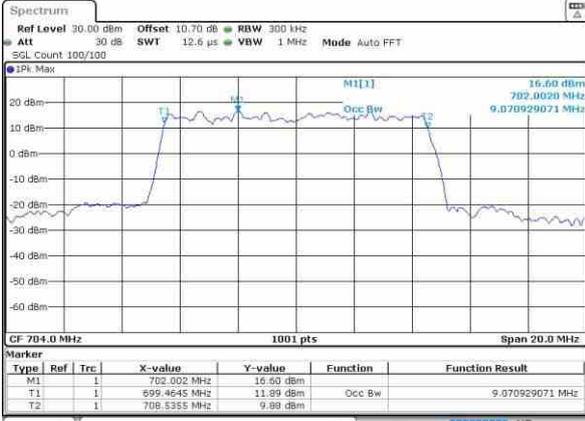


Date: 22.MAY.2019 02:31:32



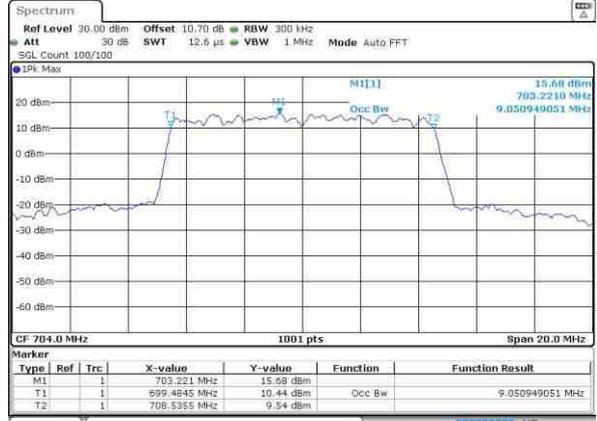
LTE Band 12

Lowest Channel / 10MHz / QPSK



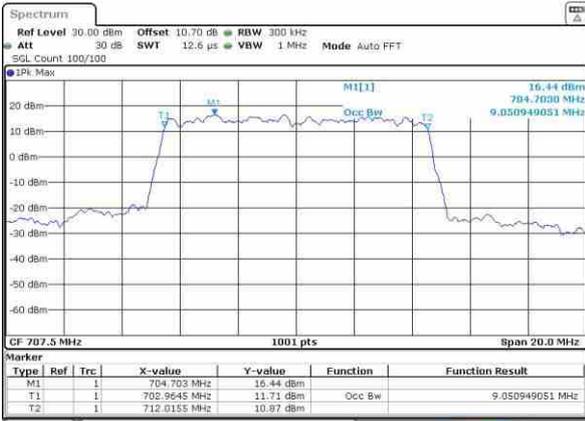
Date: 22.MAY.2019 02:37:46

Lowest Channel / 10MHz / 16QAM



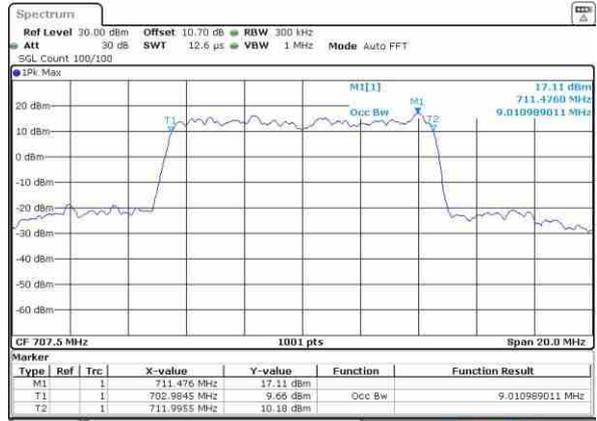
Date: 22.MAY.2019 02:37:58

Middle Channel / 10MHz / QPSK



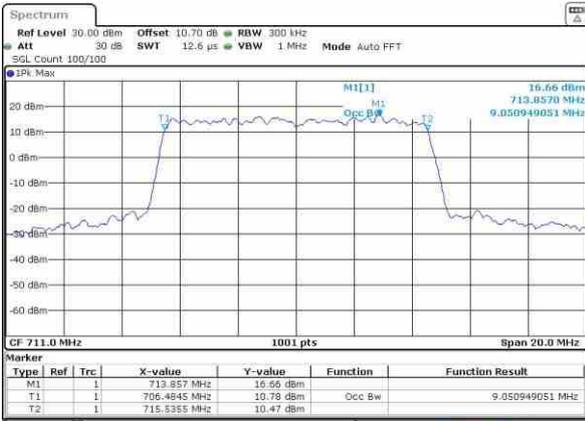
Date: 22.MAY.2019 02:44:23

Middle Channel / 10MHz / 16QAM



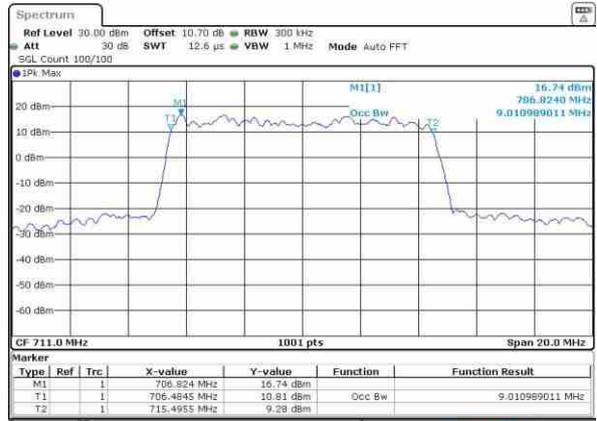
Date: 22.MAY.2019 02:44:12

Highest Channel / 10MHz / QPSK



Date: 22.MAY.2019 02:46:30

Highest Channel / 10MHz / 16QAM

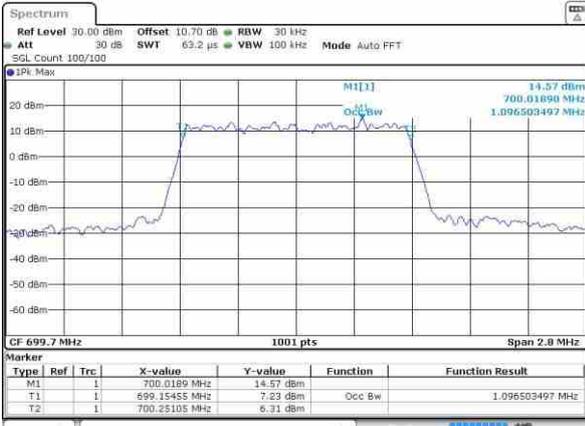


Date: 22.MAY.2019 02:46:42



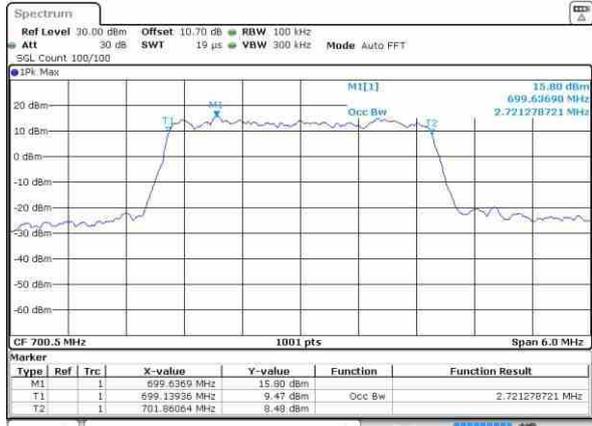
LTE Band 12

Lowest Channel / 1.4MHz / 64QAM



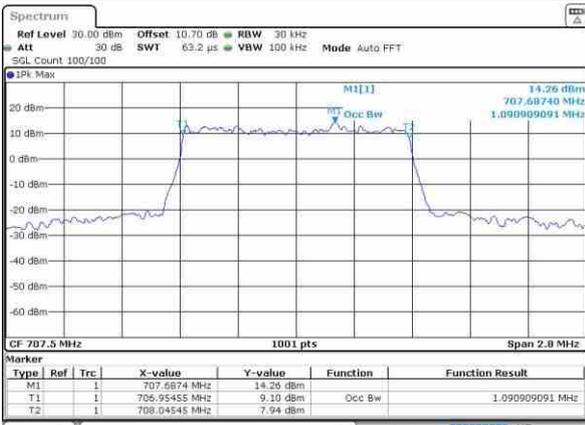
Date: 21 MAY 2019 22:35:17

Lowest Channel / 3MHz / 64QAM



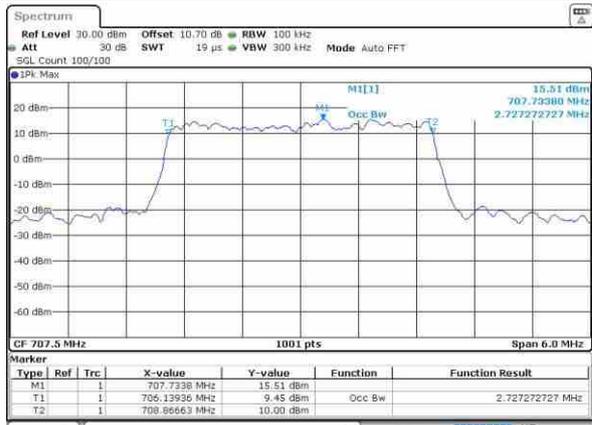
Date: 21 MAY 2019 22:58:03

Middle Channel / 1.4MHz / 64QAM



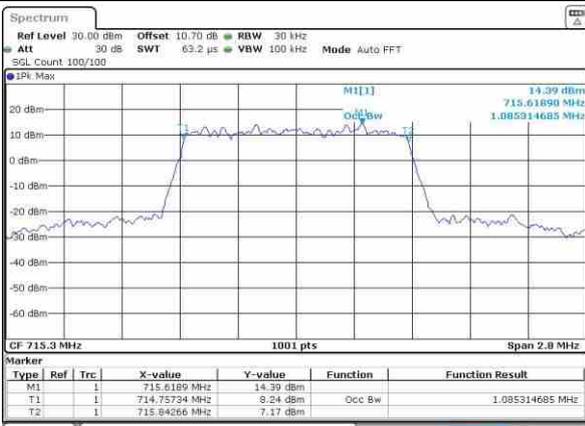
Date: 21 MAY 2019 22:38:29

Middle Channel / 3MHz / 64QAM



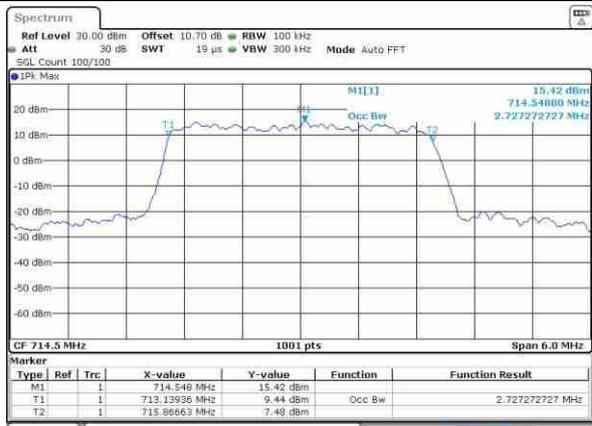
Date: 21 MAY 2019 23:01:16

Highest Channel / 1.4MHz / 64QAM



Date: 21 MAY 2019 22:39:38

Highest Channel / 3MHz / 64QAM

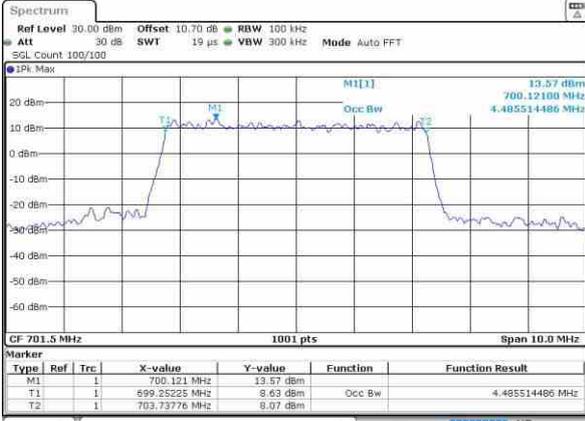


Date: 22 MAY 2019 02:11:45



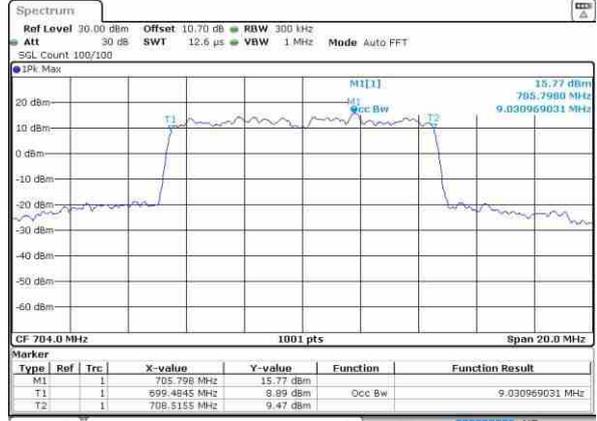
LTE Band 12

Lowest Channel / 5MHz / 64QAM



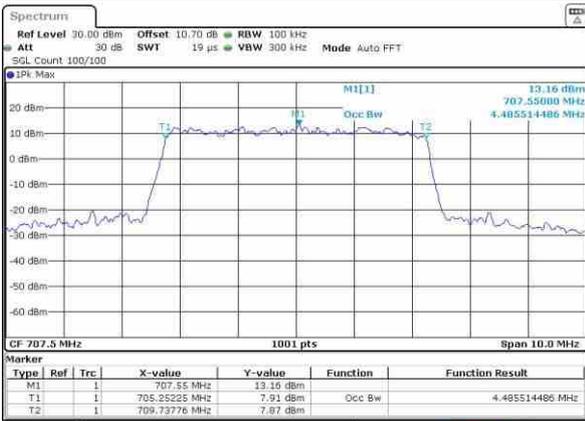
Date: 22.MAY.2019 02:14:56

Lowest Channel / 10MHz / 64QAM



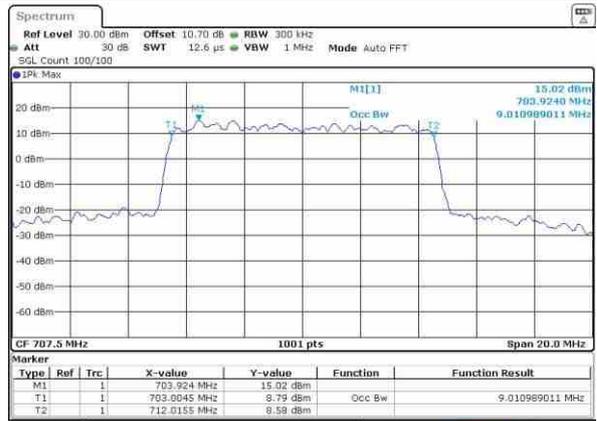
Date: 22.MAY.2019 02:52:56

Middle Channel / 5MHz / 64QAM



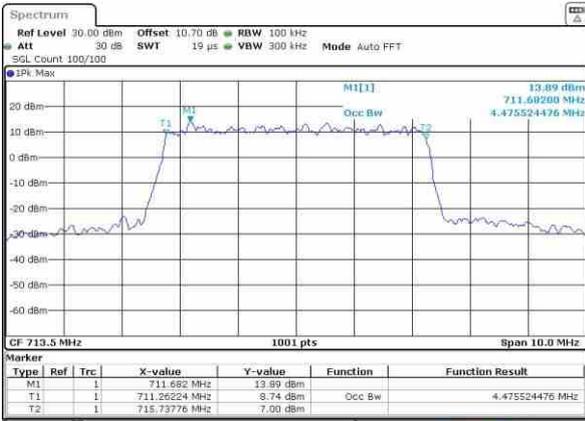
Date: 22.MAY.2019 02:18:11

Middle Channel / 10MHz / 64QAM



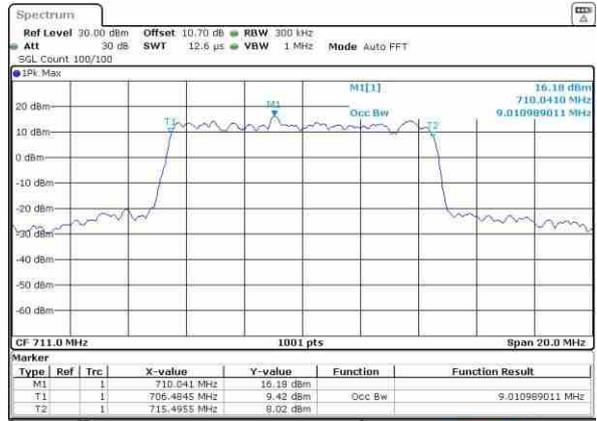
Date: 22.MAY.2019 02:56:08

Highest Channel / 5MHz / 64QAM



Date: 22.MAY.2019 02:19:20

Highest Channel / 10MHz / 64QAM



Date: 22.MAY.2019 02:57:18



**Conducted Band Edge**



LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB



Date: 21 MAY 2019 22:24:47

Highest Band Edge / 1RB



Date: 21 MAY 2019 22:33:31

Lowest Band Edge / Full RB



Date: 21 MAY 2019 22:21:43

Highest Band Edge / Full RB



Date: 21 MAY 2019 22:30:28



LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 21 MAY 2019 22:23:46

Highest Band Edge / 1 RB



Date: 21 MAY 2019 22:32:30

Lowest Band Edge / Full RB



Date: 21 MAY 2019 22:22:44

Highest Band Edge / Full RB

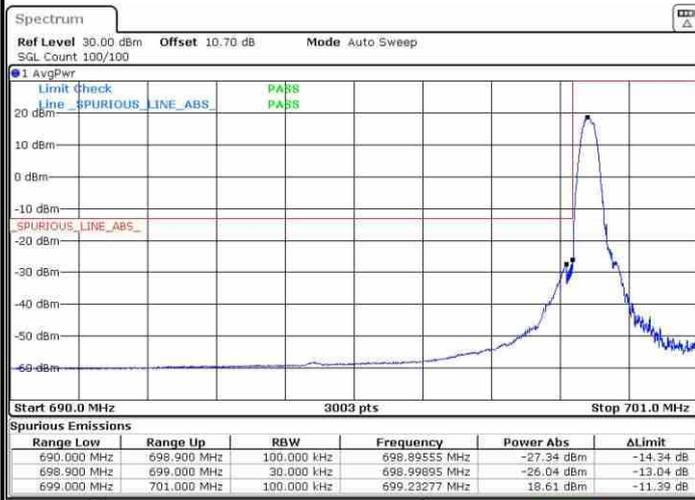


Date: 21 MAY 2019 22:31:29



LTE Band 12 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 21 MAY 2019 22:37:31

Highest Band Edge / 1 RB



Date: 21 MAY 2019 22:41:53

Lowest Band Edge / Full RB



Date: 21 MAY 2019 22:36:29

Highest Band Edge / Full RB

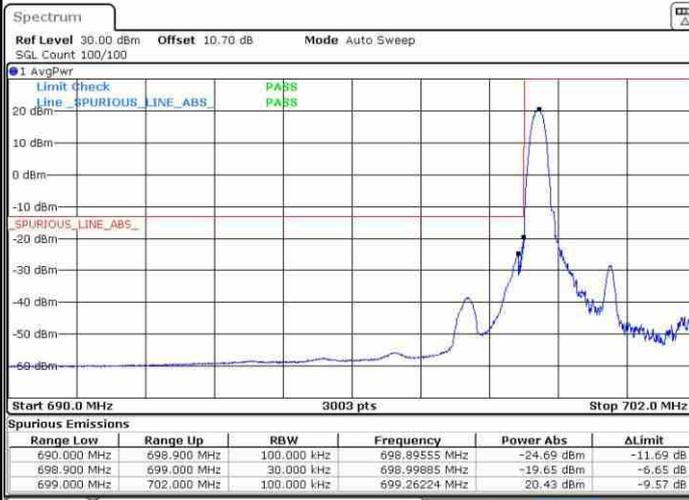


Date: 21 MAY 2019 22:40:51



LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



Date: 21 MAY 2019 22:47:33

Highest Band Edge / 1 RB



Date: 21 MAY 2019 22:56:18

Lowest Band Edge / Full RB



Date: 21 MAY 2019 22:44:30

Highest Band Edge / Full RB

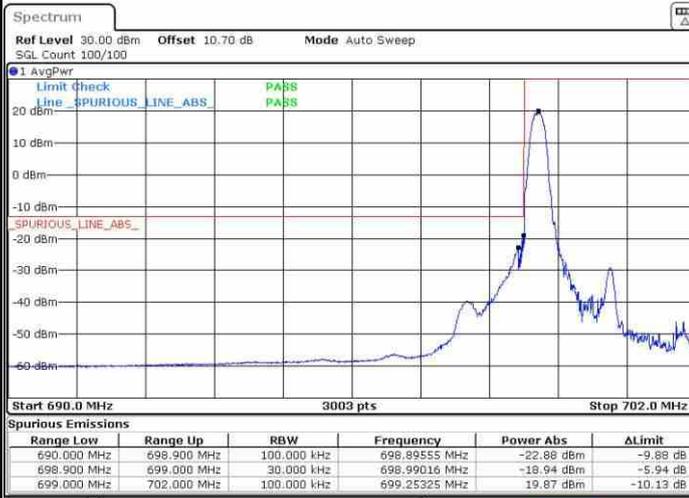


Date: 21 MAY 2019 22:53:14



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 21 MAY 2019 22:46:32

Highest Band Edge / 1 RB



Date: 21 MAY 2019 22:55:16

Lowest Band Edge / Full RB



Date: 21 MAY 2019 22:45:31

Highest Band Edge / Full RB



Date: 21 MAY 2019 22:54:15



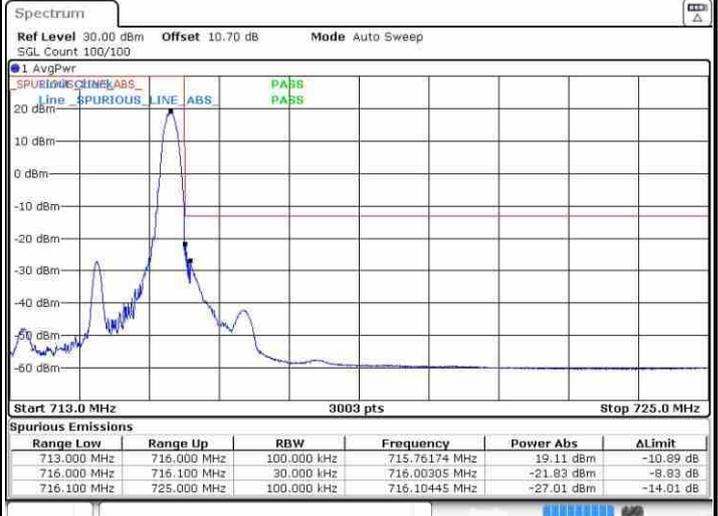
LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



Date: 21 MAY 2019 23:00:17

Highest Band Edge / 1 RB



Date: 22 MAY 2019 02:13:59

Lowest Band Edge / Full RB



Date: 21 MAY 2019 22:59:16

Highest Band Edge / Full RB

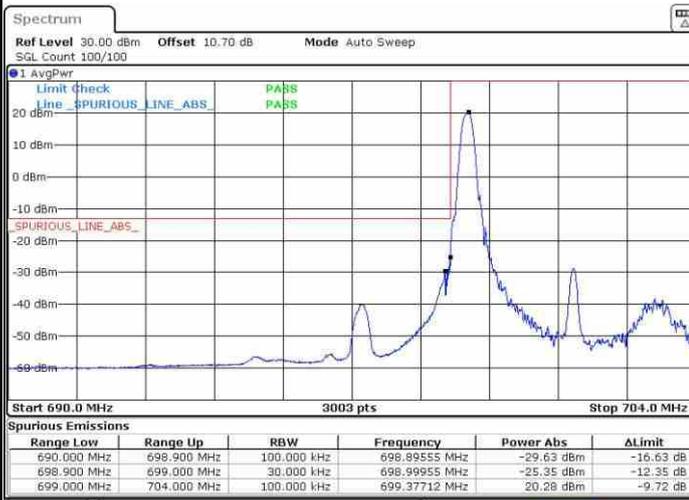


Date: 22 MAY 2019 02:12:58



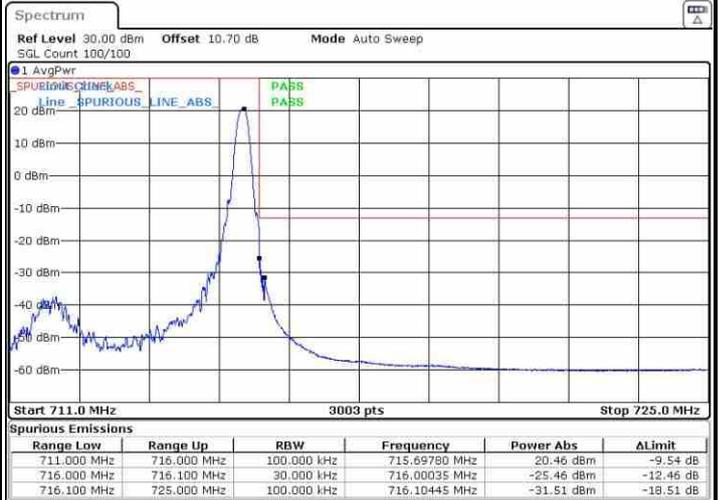
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



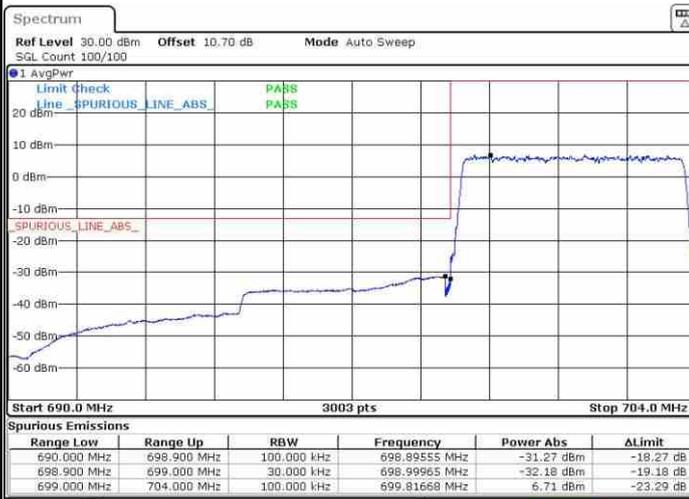
Date: 22 MAY 2019 02:27:16

Highest Band Edge / 1 RB



Date: 22 MAY 2019 02:34:59

Lowest Band Edge / Full RB



Date: 22 MAY 2019 02:24:12

Highest Band Edge / Full RB

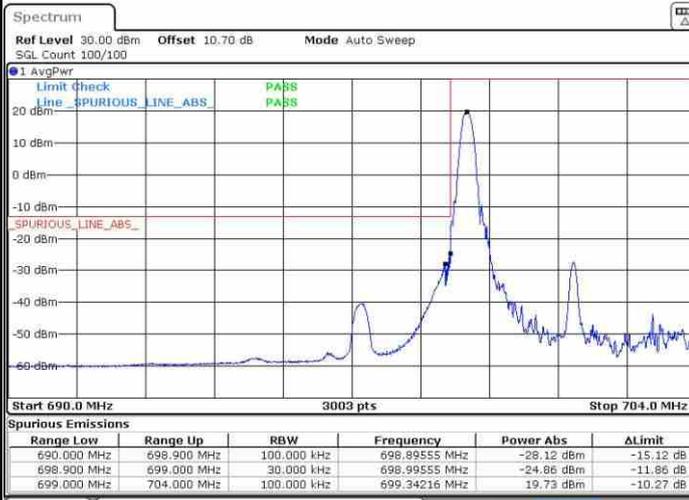


Date: 22 MAY 2019 02:32:57



LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



Date: 22 MAY 2019 02:26:15

Highest Band Edge / 1 RB



Date: 22 MAY 2019 02:36:00

Lowest Band Edge / Full RB



Date: 22 MAY 2019 02:25:13

Highest Band Edge / Full RB

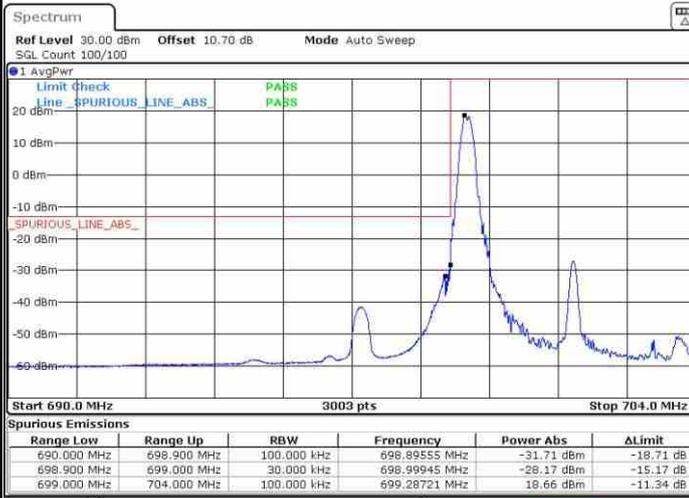


Date: 22 MAY 2019 02:33:58



LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



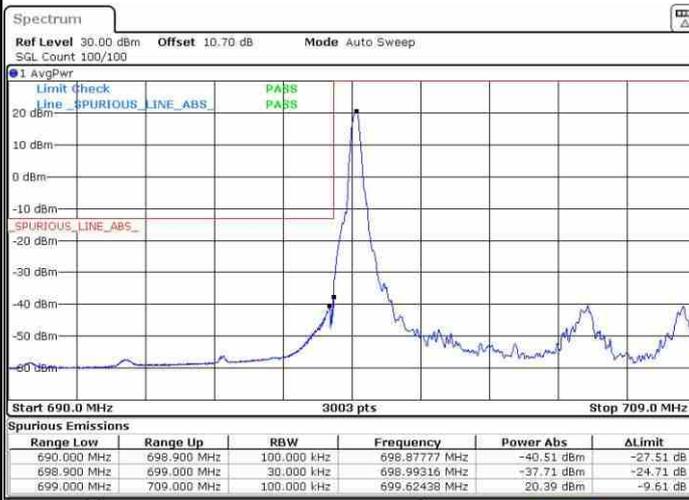
Highest Band Edge / Full RB





LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



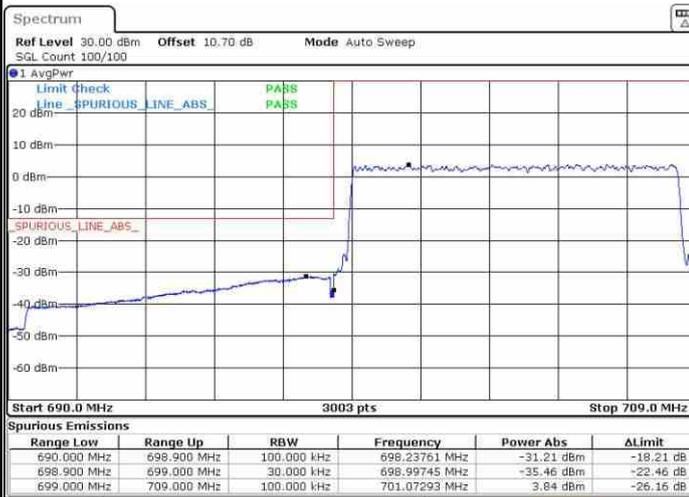
Date: 22 MAY 2019 02:42:27

Highest Band Edge / 1 RB



Date: 22 MAY 2019 02:51:11

Lowest Band Edge / Full RB



Date: 22 MAY 2019 02:39:24

Highest Band Edge / Full RB

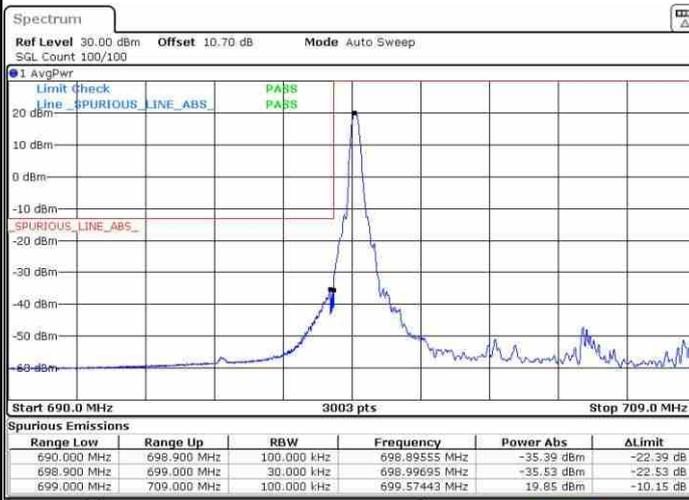


Date: 22 MAY 2019 02:48:07



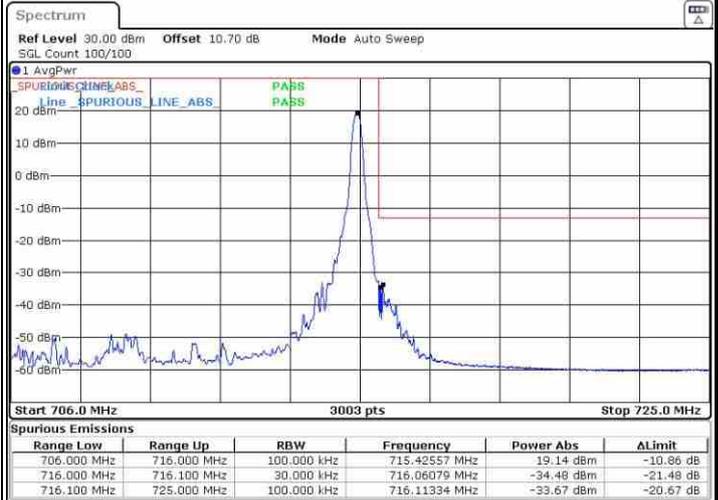
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



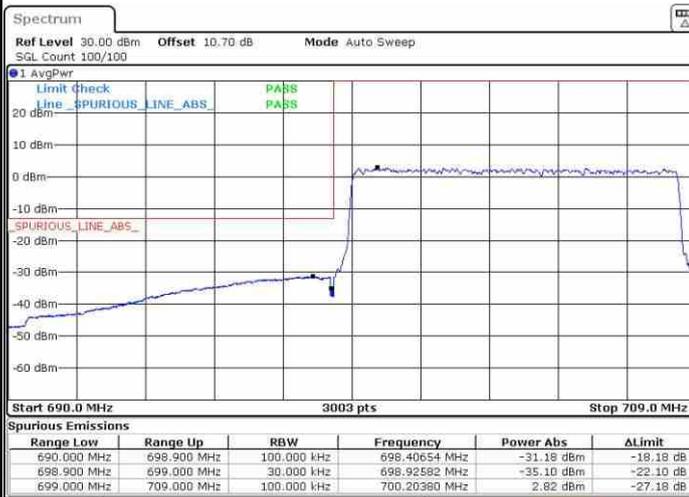
Date: 22 MAY 2019 02:41:26

Highest Band Edge / 1 RB



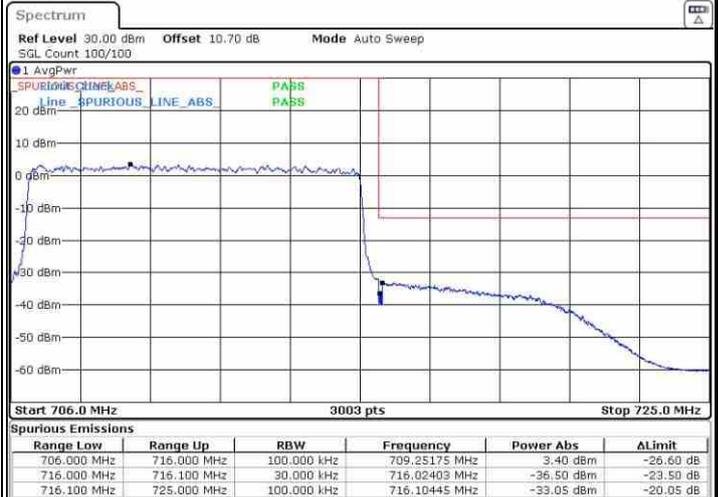
Date: 22 MAY 2019 02:50:10

Lowest Band Edge / Full RB



Date: 22 MAY 2019 02:40:25

Highest Band Edge / Full RB

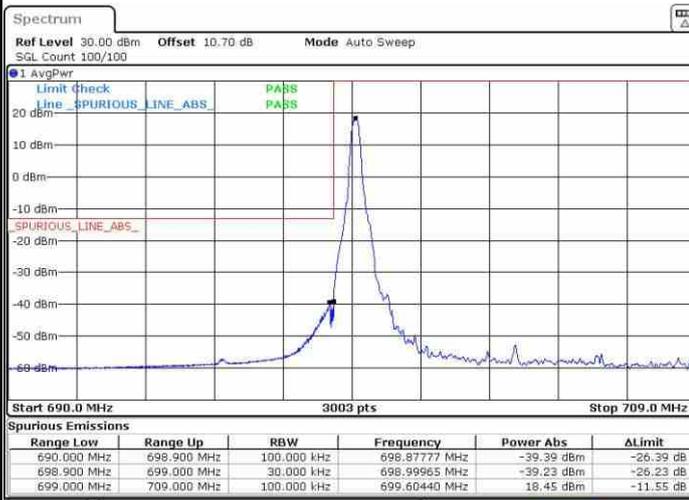


Date: 22 MAY 2019 02:49:09



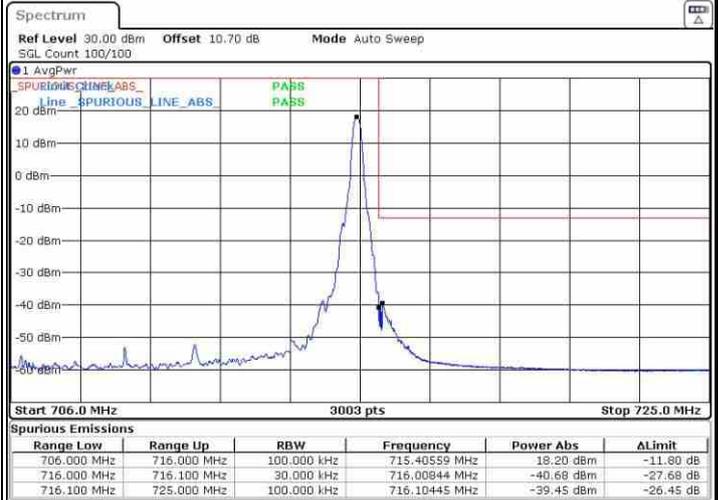
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



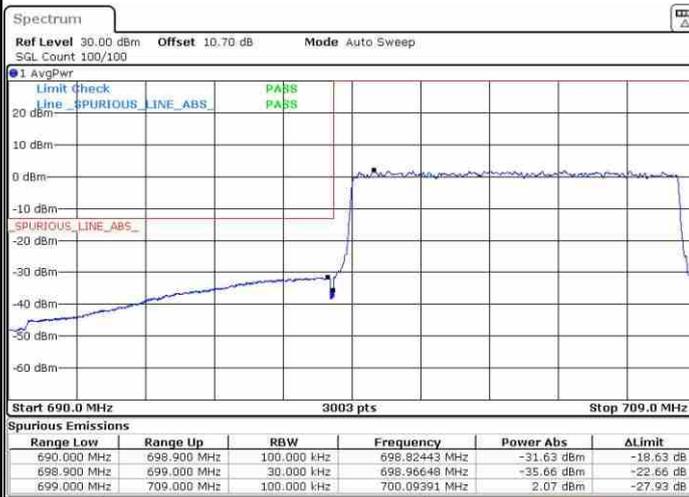
Date: 22 MAY 2019 02:55:10

Highest Band Edge / 1 RB



Date: 22 MAY 2019 02:59:32

Lowest Band Edge / Full RB



Date: 22 MAY 2019 02:54:08

Highest Band Edge / Full RB



Date: 22 MAY 2019 02:58:31



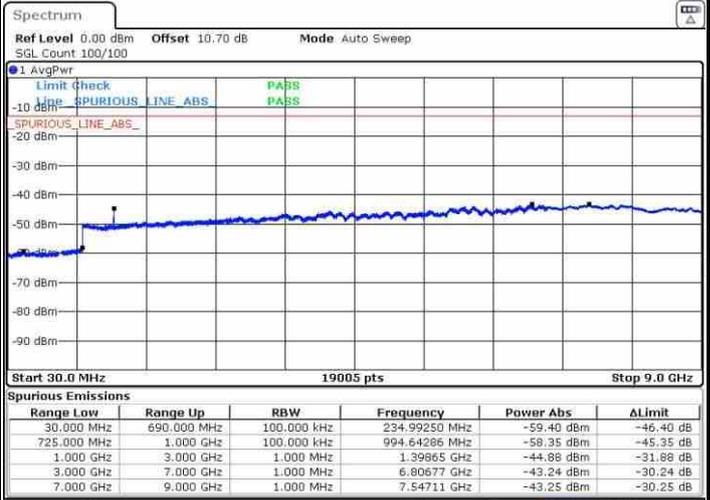
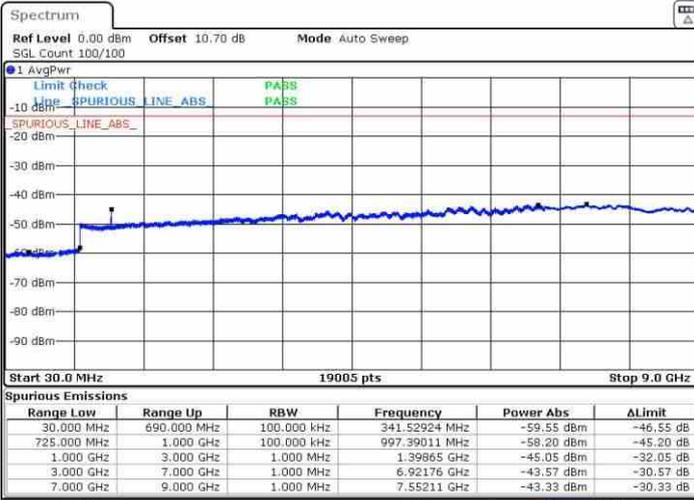
**Conducted Spurious Emission**



LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

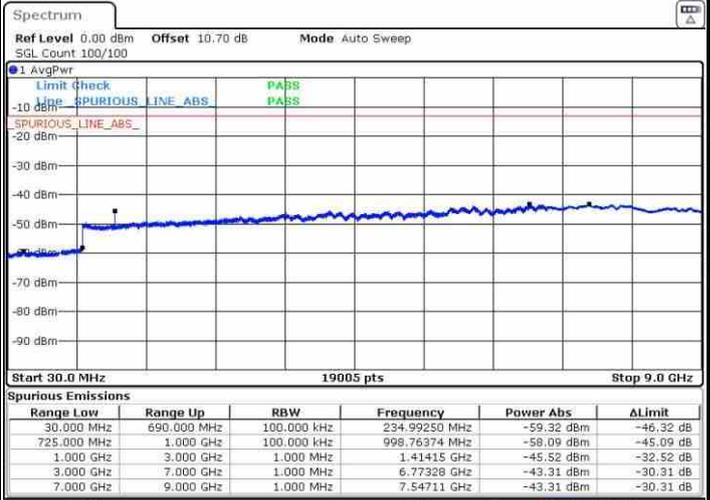
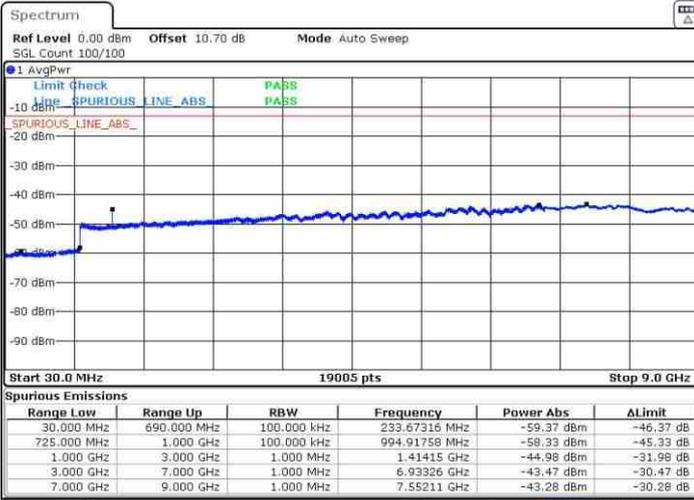


Date: 21.MAY.2019 22:25:33

Date: 21.MAY.2019 22:26:20

Middle Channel / QPSK

Middle Channel / 16QAM



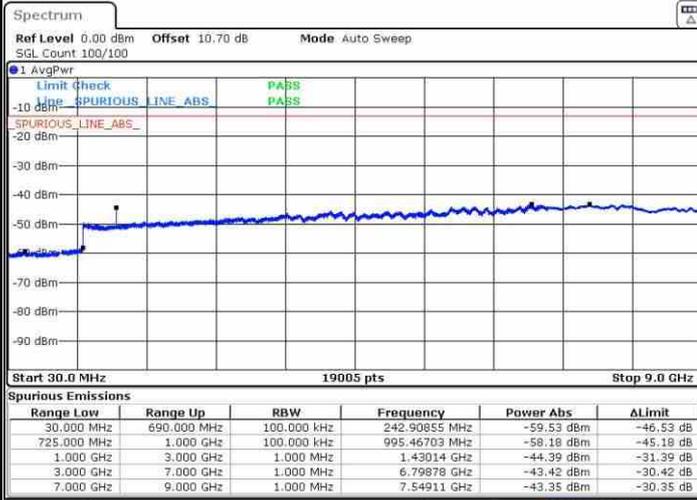
Date: 21.MAY.2019 22:28:38

Date: 21.MAY.2019 22:27:53



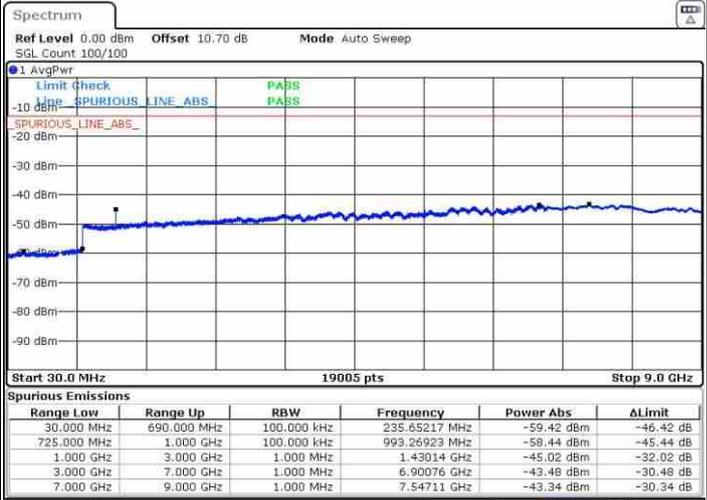
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 21.MAY.2019 22:34:18

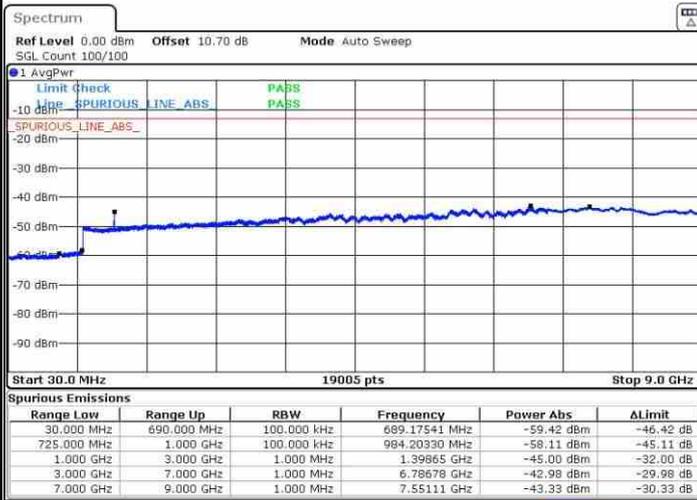
Highest Channel / 16QAM



Date: 21.MAY.2019 22:35:04

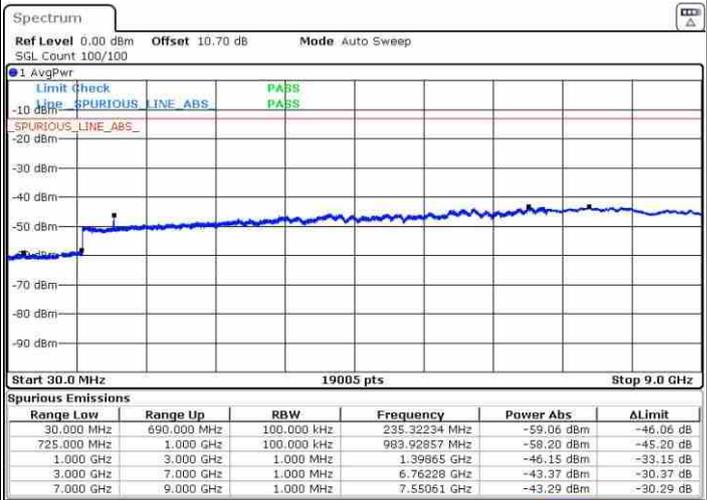
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 21.MAY.2019 22:48:20

Lowest Channel / 16QAM



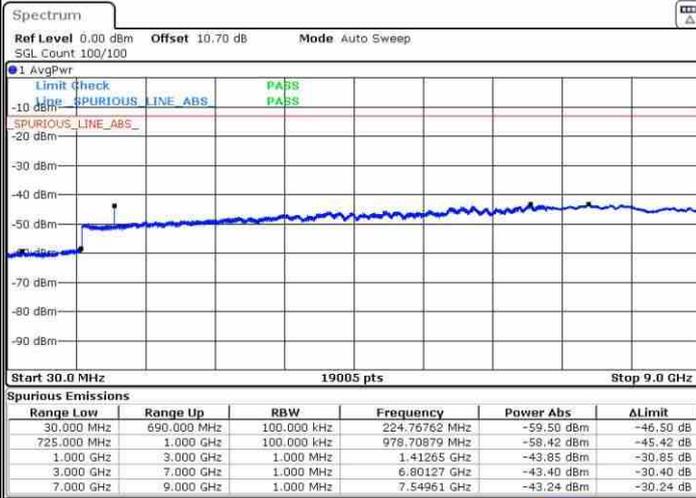
Date: 21.MAY.2019 22:49:06



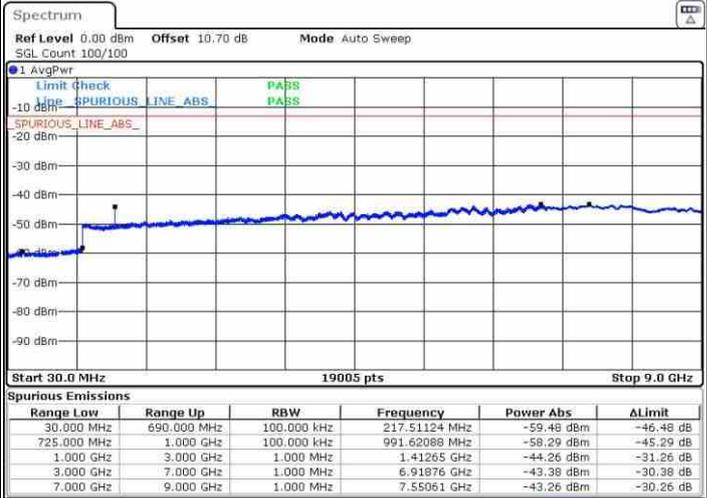
LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



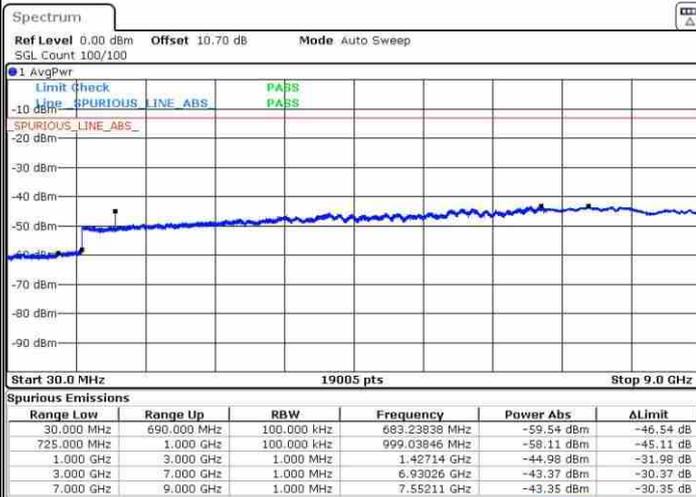
Date: 21.MAY.2019 22:51:24



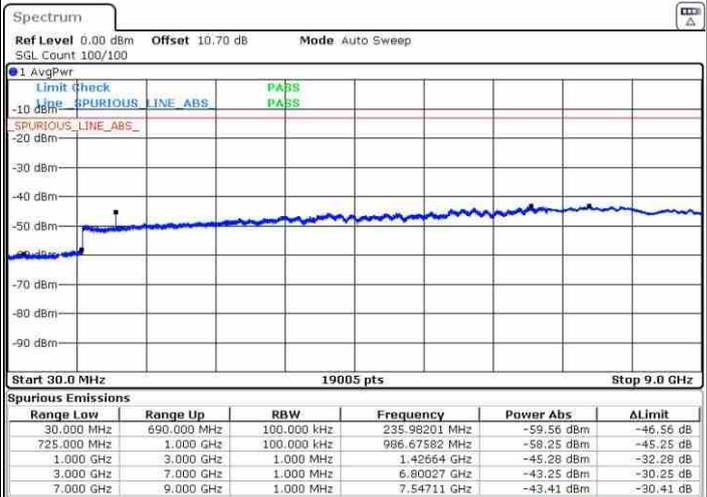
Date: 21.MAY.2019 22:50:39

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 21.MAY.2019 22:57:04



Date: 21.MAY.2019 22:57:50