



LTE Band 41

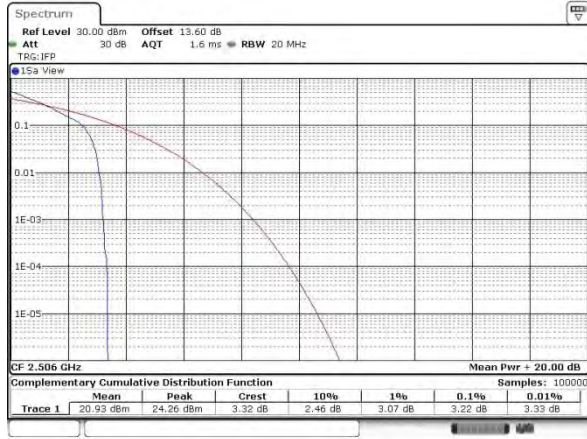
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.22	4.29	4.03	5.30	PASS
Middle CH	3.39	4.29	4.32	5.33	
Highest CH	3.19	4.35	4.09	5.39	

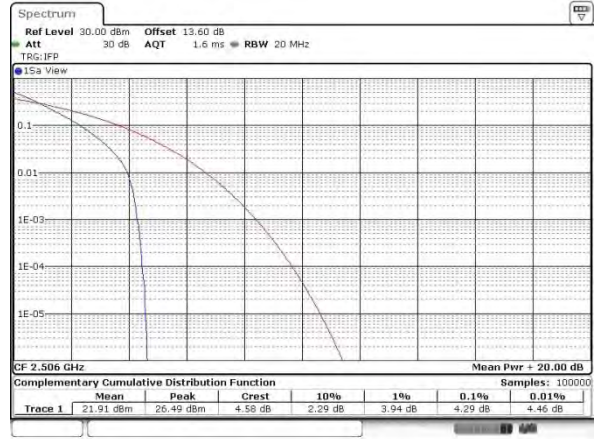


LTE Band 41 / 20MHz / QPSK

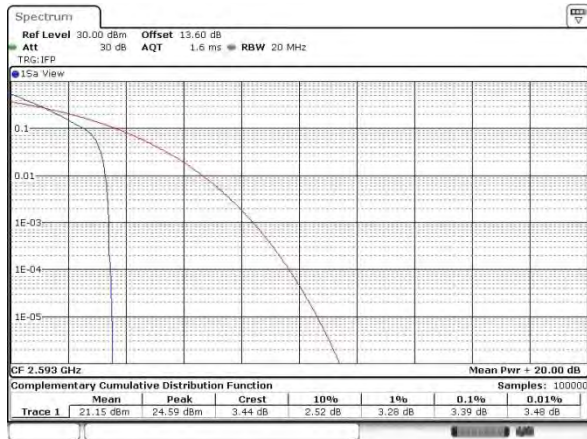
Lowest Channel / 1RB



Lowest Channel / Full RB



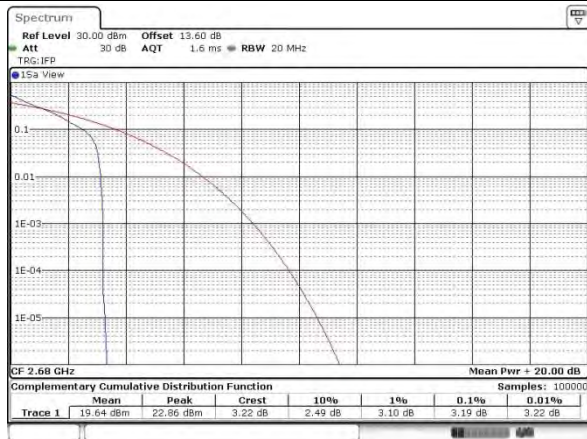
Middle Channel / 1RB



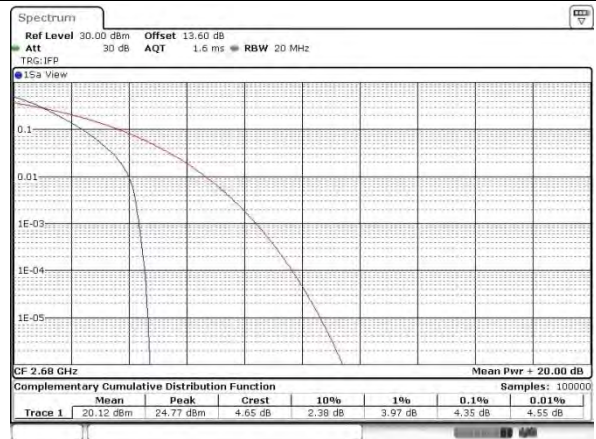
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



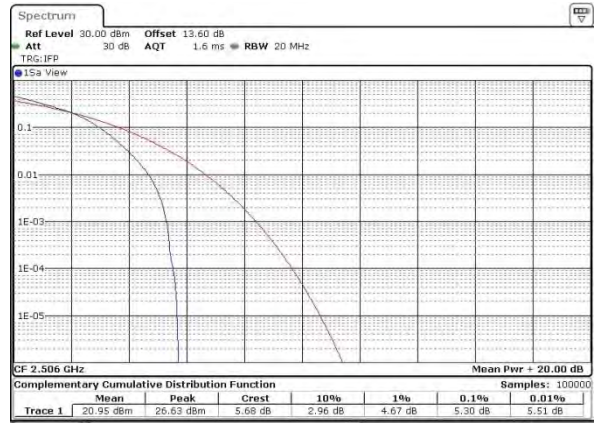


LTE Band 41 / 20MHz / 16QAM

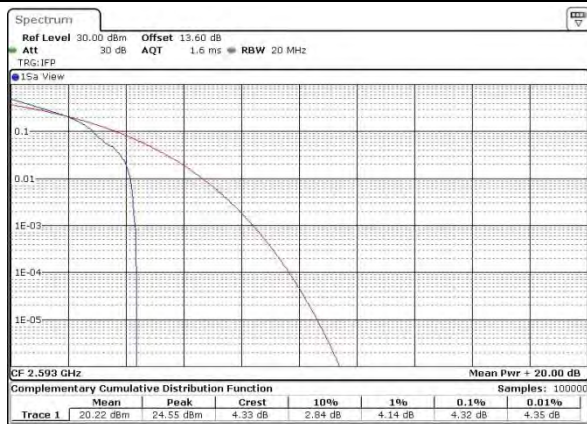
Lowest Channel / 1RB



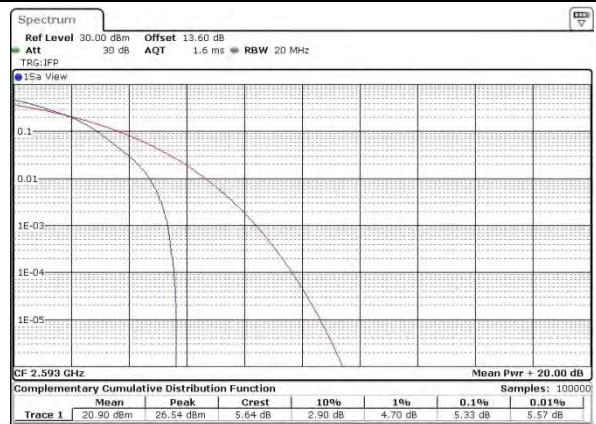
Lowest Channel / Full RB



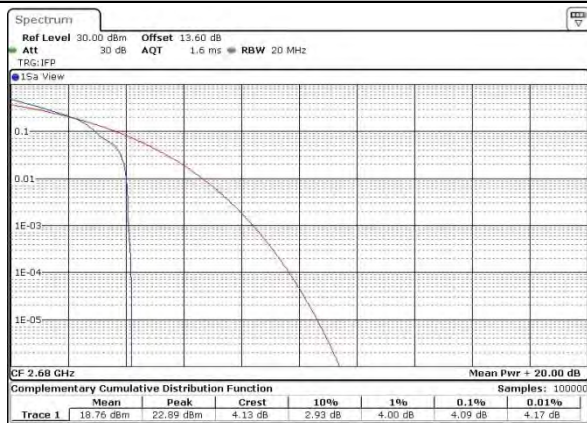
Middle Channel / 1RB



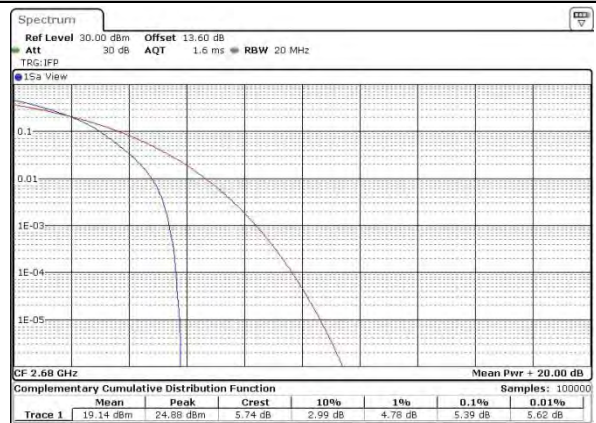
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





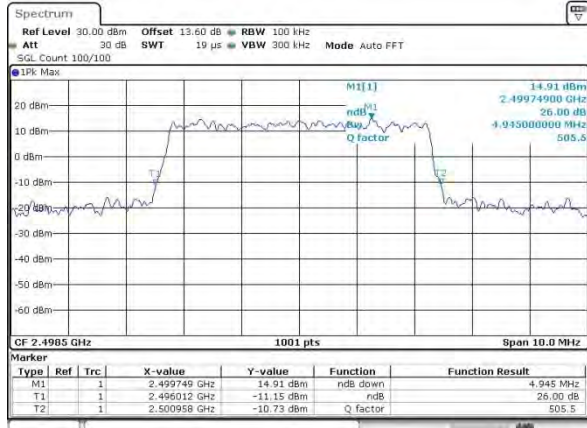
26dB Bandwidth

Mode	LTE Band 41 : 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					4.95	4.73	9.69	9.69	14.54	14.24	21.299	20.18
Middle CH					4.88	5	9.77	9.81	14.39	14.18	20.22	20.18
Highest CH					4.83	4.9	9.65	9.67	14.21	14.51	20.22	21.379



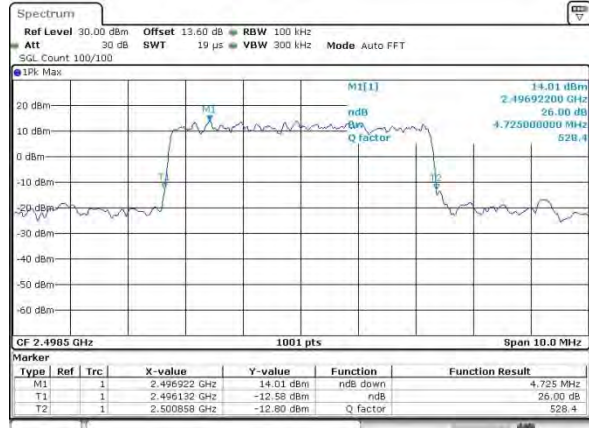
LTE Band 41

Lowest Channel / 5MHz / QPSK



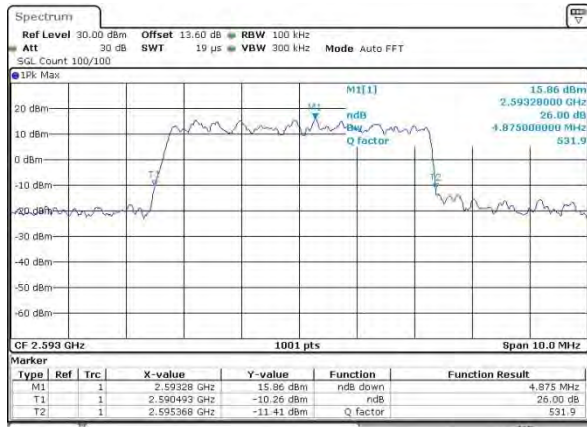
Data: 14.May.2015 09:52:05

Lowest Channel / 5MHz / 16QAM



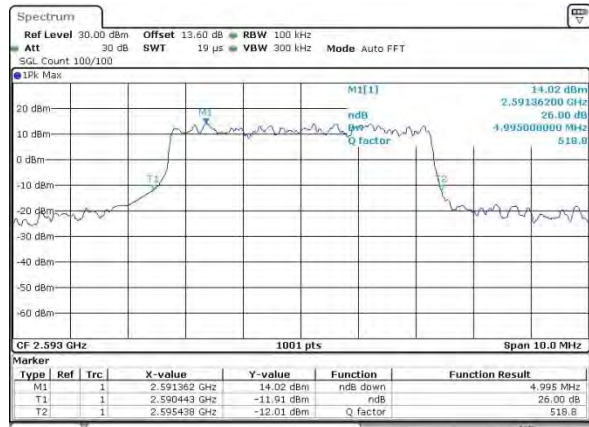
Data: 14.May.2015 09:52:17

Middle Channel / 5MHz / QPSK



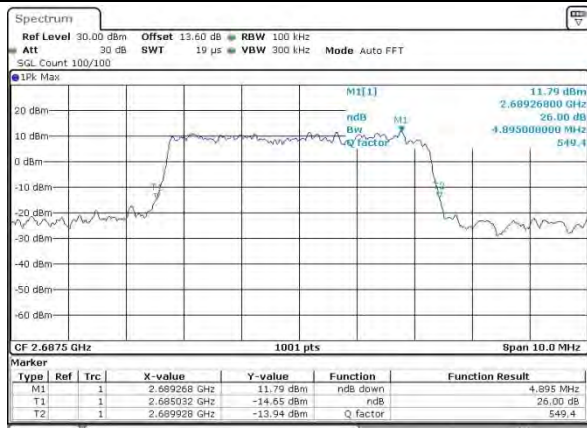
Data: 14.May.2015 09:52:52

Middle Channel / 5MHz / 16QAM



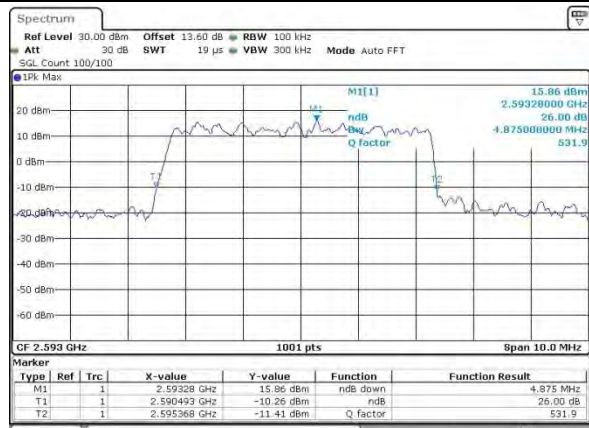
Data: 14.May.2015 09:52:03

Highest Channel / 5MHz / QPSK



Data: 14.May.2015 09:53:00

Highest Channel / 5MHz / 16QAM

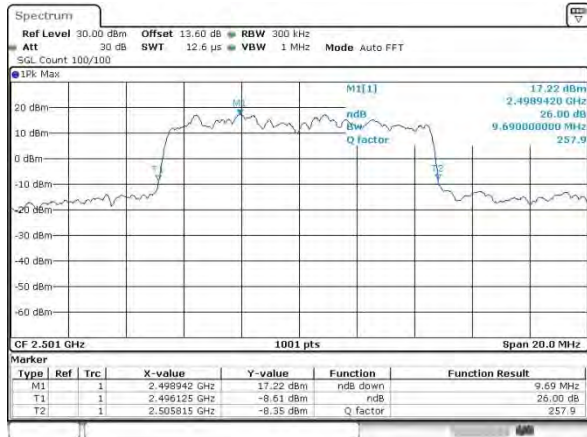


Data: 14.May.2015 09:52:52



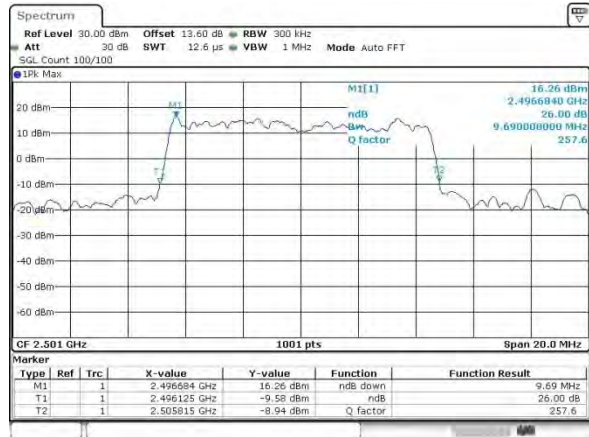
LTE Band 41

Lowest Channel / 10MHz / QPSK



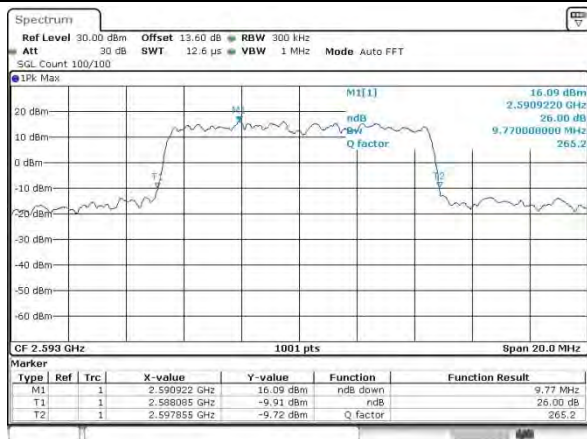
Data: 14.May.2015 09:54:25

Lowest Channel / 10MHz / 16QAM



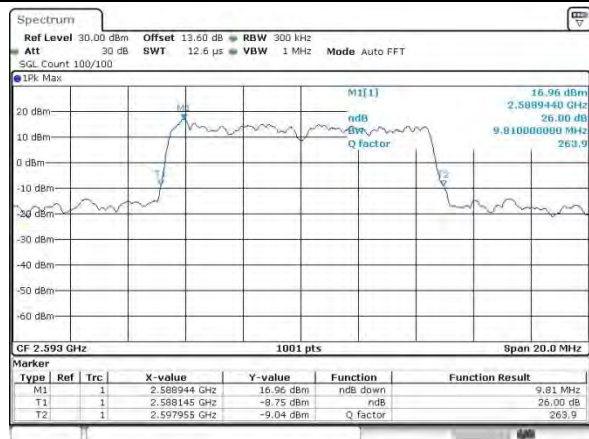
Data: 14.May.2015 09:54:36

Middle Channel / 10MHz / QPSK



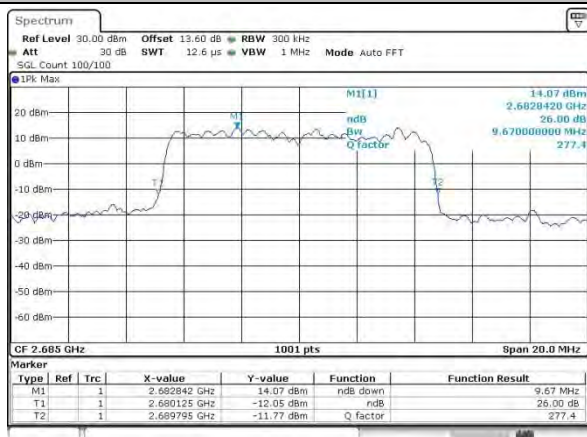
Data: 14.May.2015 09:55:11

Middle Channel / 10MHz / 16QAM



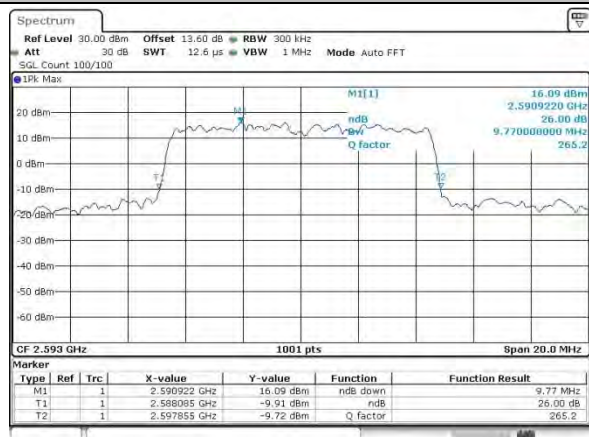
Data: 14.May.2015 09:55:23

Highest Channel / 10MHz / QPSK



Data: 14.May.2015 09:56:09

Highest Channel / 10MHz / 16QAM

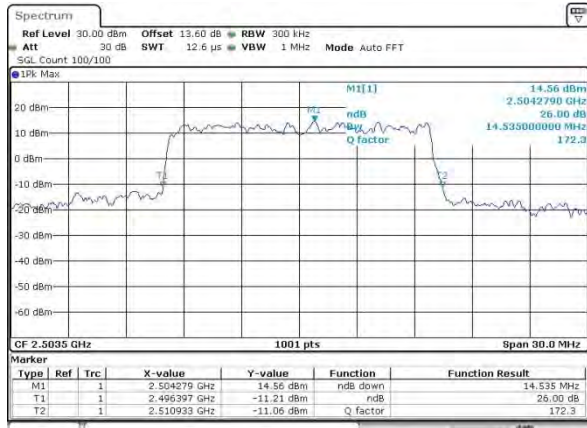


Data: 14.May.2015 09:55:11



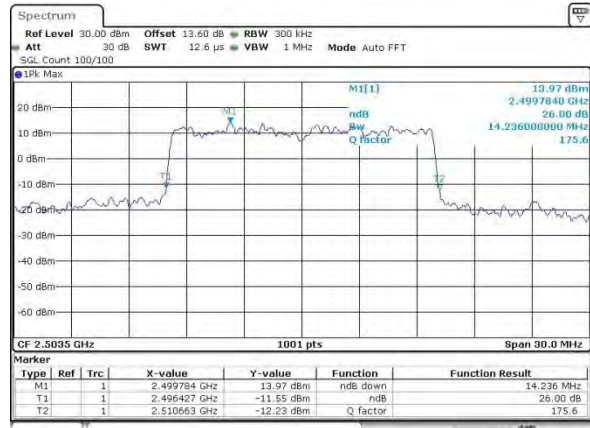
LTE Band 41

Lowest Channel / 15MHz / QPSK



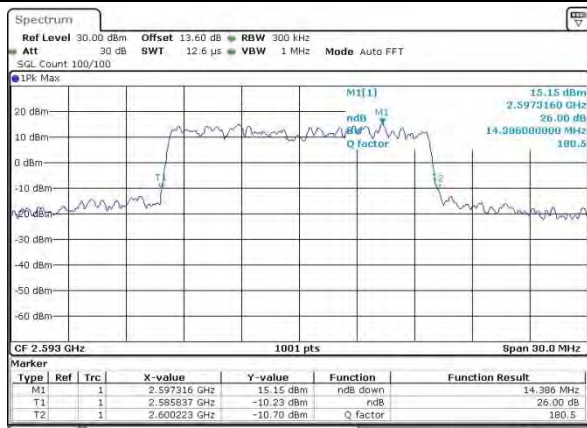
Data: 14.May.2015 09:56:44

Lowest Channel / 15MHz / 16QAM



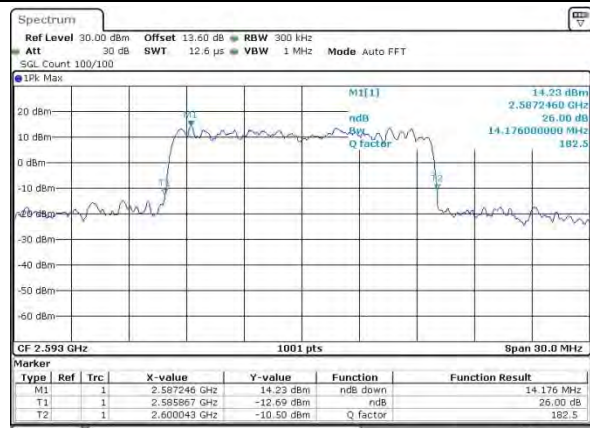
Data: 14.May.2015 09:56:56

Middle Channel / 15MHz / QPSK



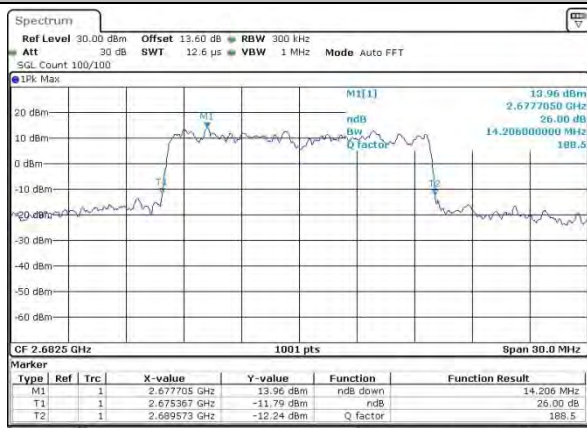
Data: 14.May.2015 09:57:03

Middle Channel / 15MHz / 16QAM



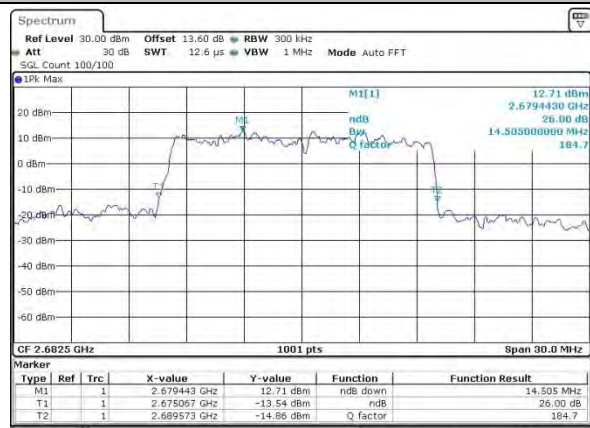
Data: 14.May.2015 09:57:42

Highest Channel / 15MHz / QPSK



Data: 14.May.2015 09:58:17

Highest Channel / 15MHz / 16QAM

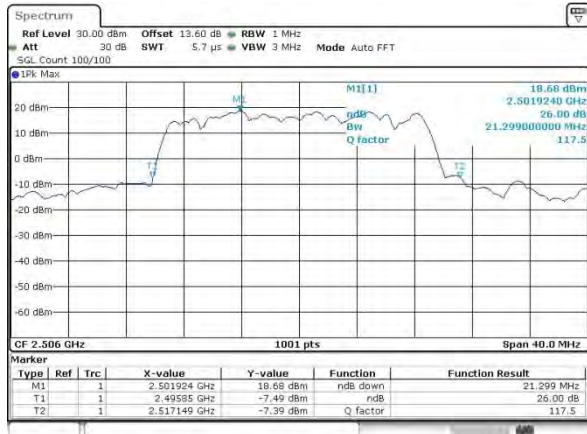


Data: 14.May.2015 09:58:29



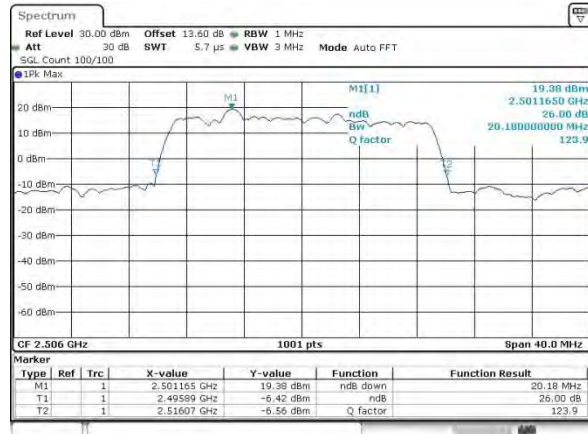
LTE Band 41

Lowest Channel / 20MHz / QPSK



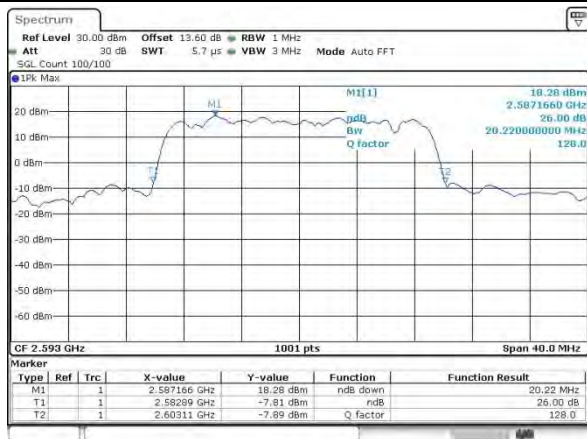
Data: 14.MAY.2015 09:55:08

Lowest Channel / 20MHz / 16QAM



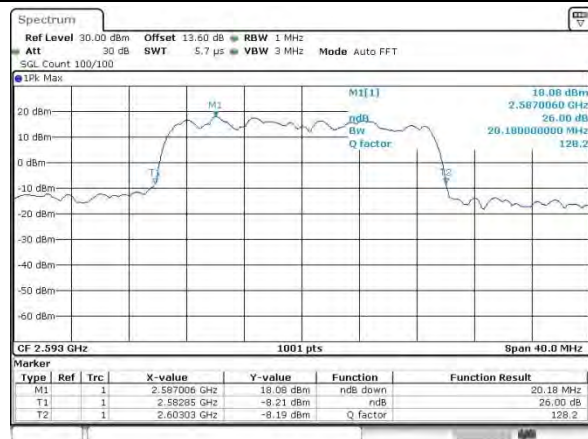
Data: 14.MAY.2015 09:59:15

Middle Channel / 20MHz / QPSK



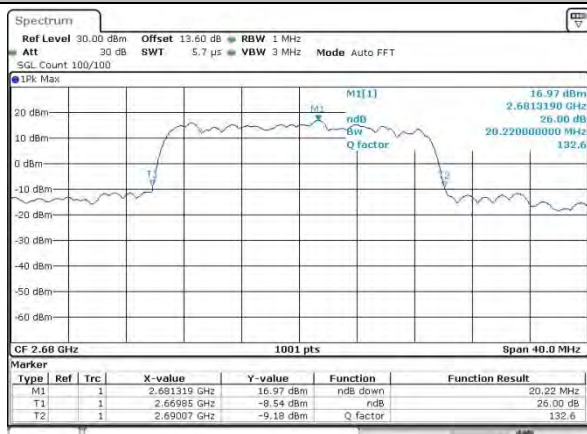
Data: 14.MAY.2015 09:58:08

Middle Channel / 20MHz / 16QAM



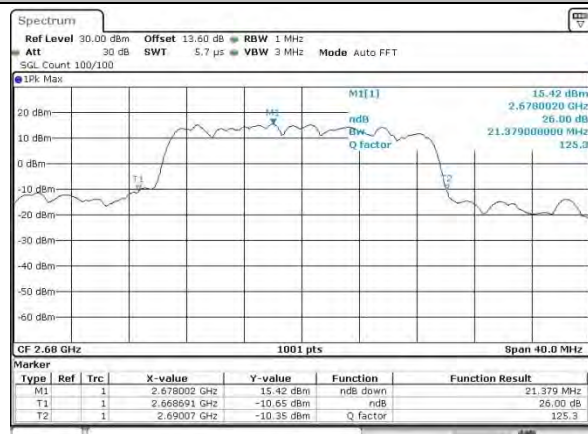
Data: 14.MAY.2015 09:58:02

Highest Channel / 20MHz / QPSK



Data: 14.MAY.2015 10:00:36

Highest Channel / 20MHz / 16QAM



Data: 14.MAY.2015 10:00:48



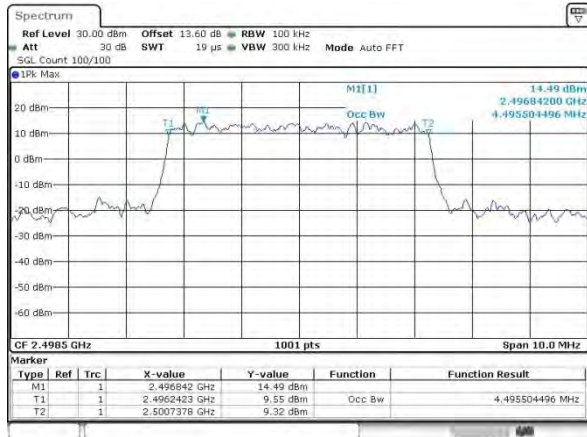
Occupied Bandwidth

Mode	LTE Band 41 : 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					4.50	4.50	9.07	9.01	13.43	13.52	18.30	18.62
Middle CH					4.48	4.50	9.01	9.03	13.55	13.55	18.38	18.26
Highest CH					4.49	4.48	9.11	9.07	13.46	13.49	18.58	18.38

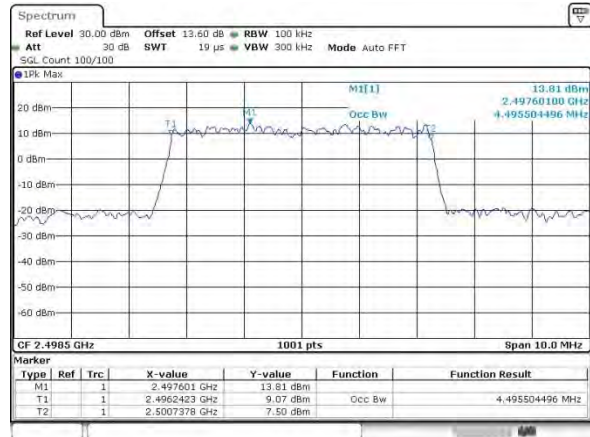


LTE Band 41

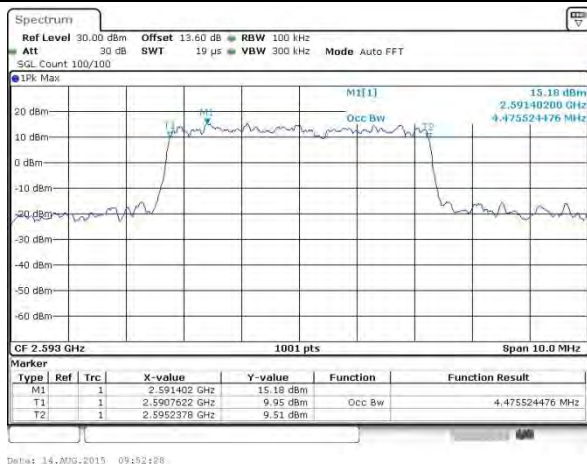
Lowest Channel / 5MHz / QPSK



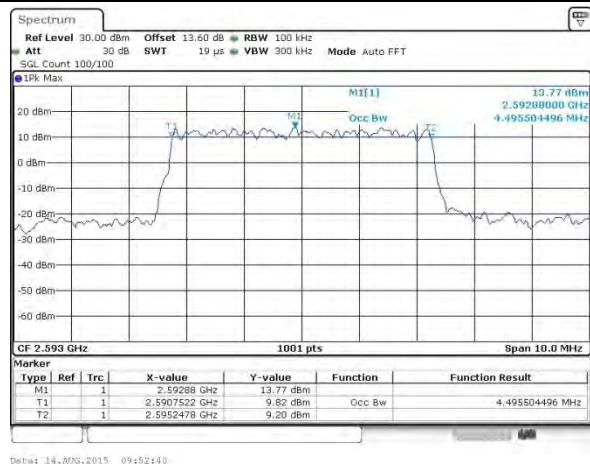
Lowest Channel / 5MHz / 16QAM



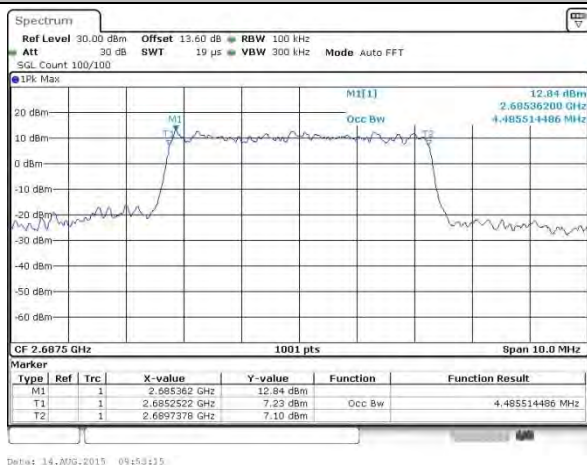
Middle Channel / 5MHz / QPSK



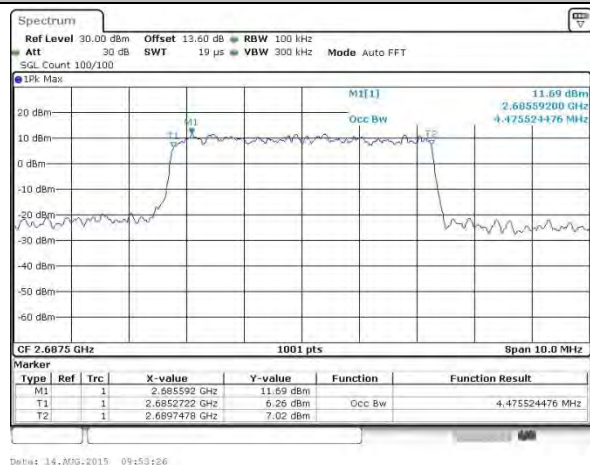
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



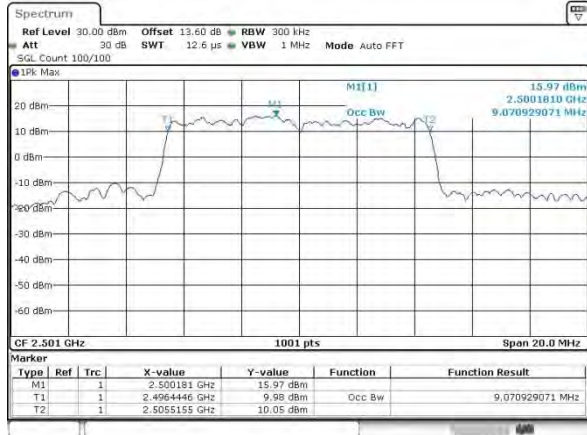
Highest Channel / 5MHz / 16QAM





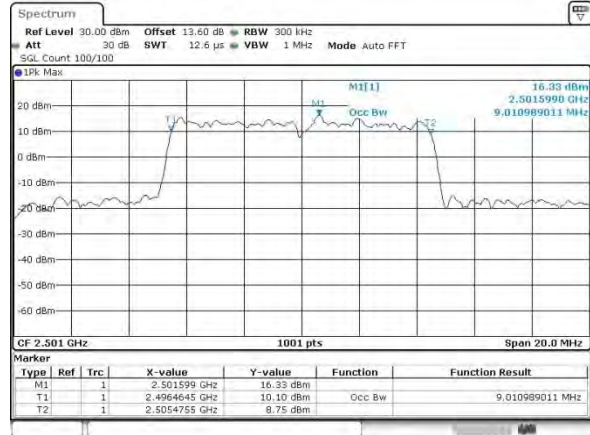
LTE Band 41

Lowest Channel / 10MHz / QPSK



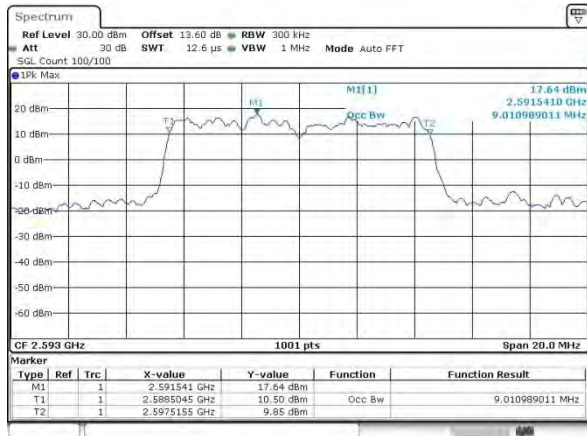
Data: 14.May.2015 09:54:01

Lowest Channel / 10MHz / 16QAM



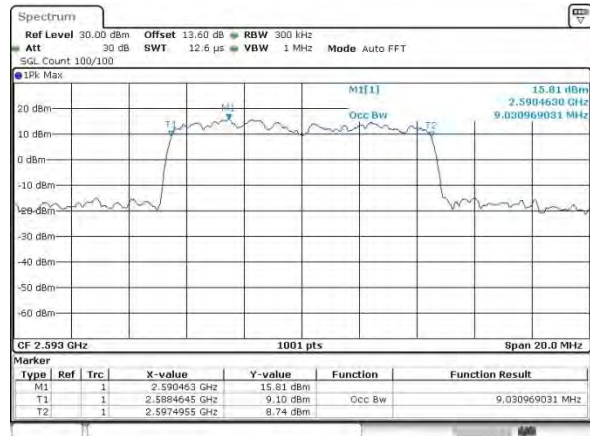
Data: 14.May.2015 09:54:13

Middle Channel / 10MHz / QPSK



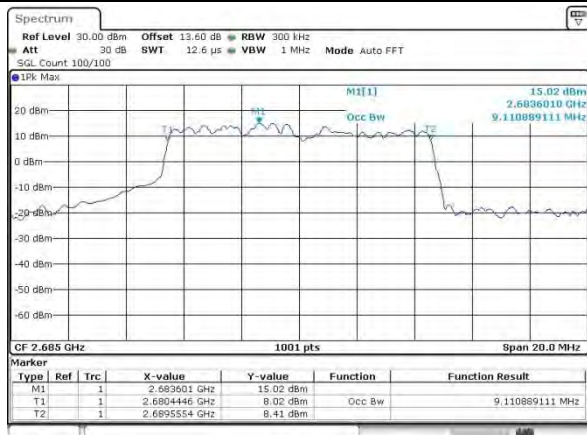
Data: 14.May.2015 09:54:48

Middle Channel / 10MHz / 16QAM



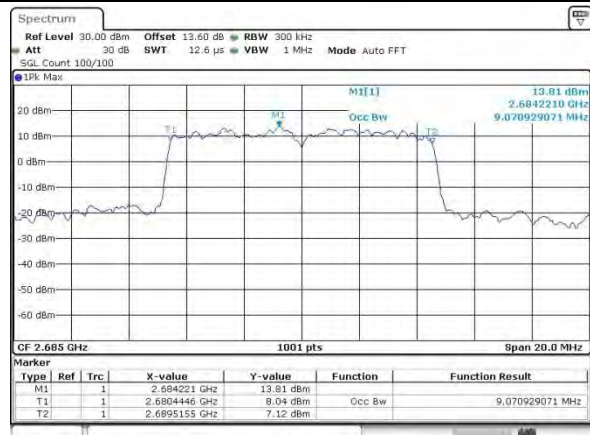
Data: 14.May.2015 09:55:00

Highest Channel / 10MHz / QPSK



Data: 14.May.2015 09:55:38

Highest Channel / 10MHz / 16QAM

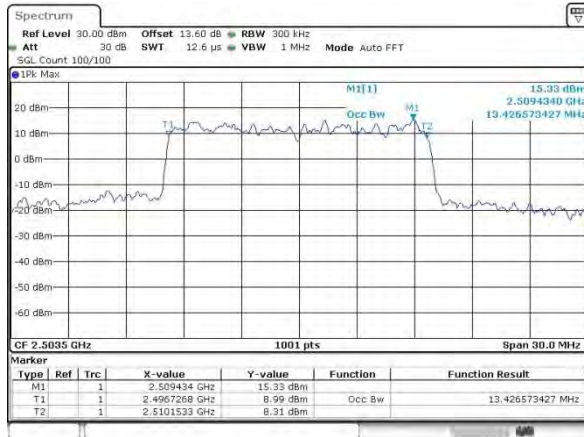


Data: 14.May.2015 09:55:46



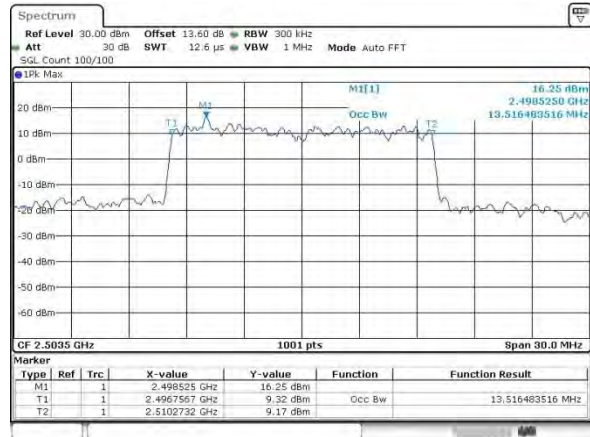
LTE Band 41

Lowest Channel / 15MHz / QPSK



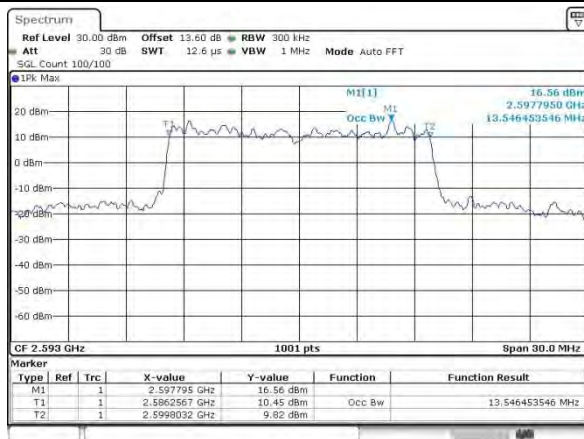
Data: 14_M03-2015 09:56:21

Lowest Channel / 15MHz / 16QAM



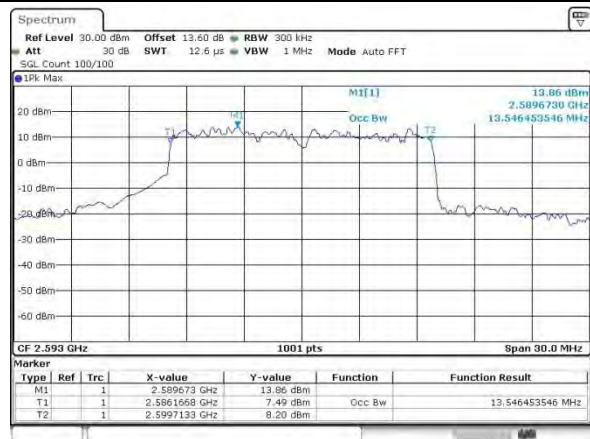
Data: 14_M03-2015 09:56:33

Middle Channel / 15MHz / QPSK



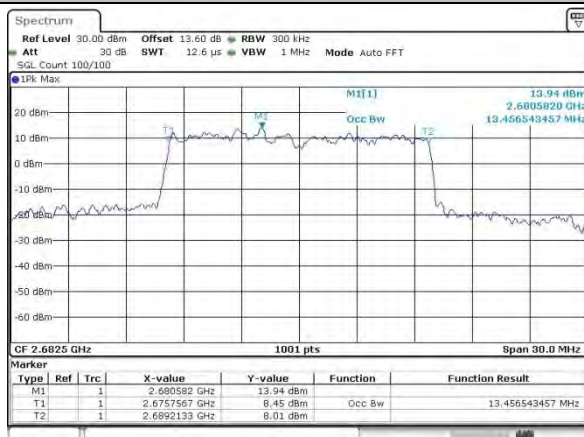
Data: 14_M03-2015 09:57:07

Middle Channel / 15MHz / 16QAM



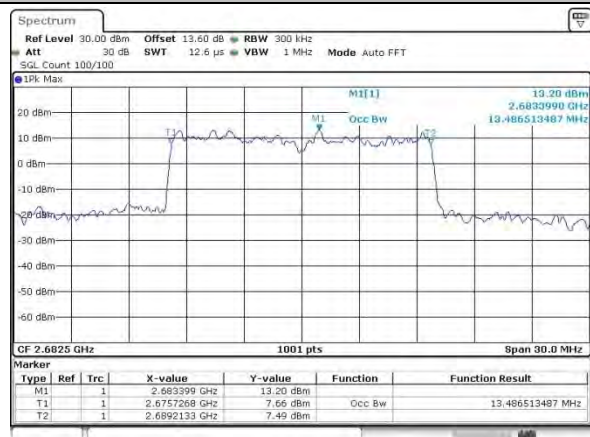
Data: 14_M03-2015 09:57:15

Highest Channel / 15MHz / QPSK



Data: 14_M03-2015 09:57:58

Highest Channel / 15MHz / 16QAM

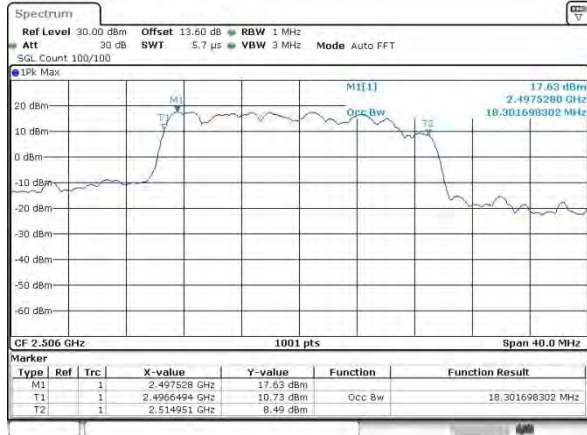


Data: 14_M03-2015 09:58:05

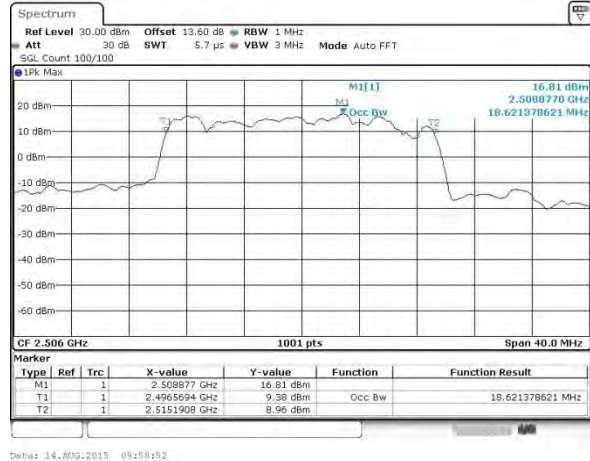


LTE Band 41

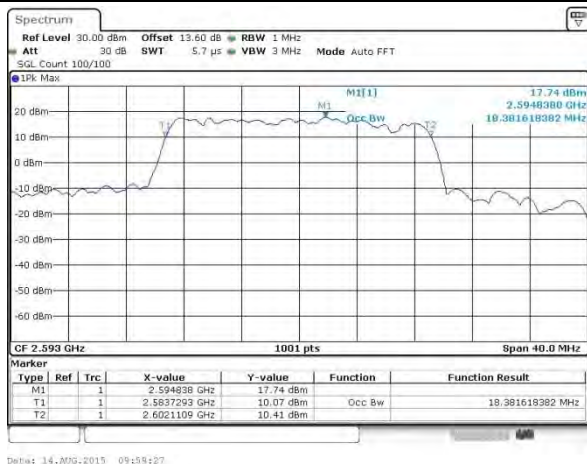
Lowest Channel / 20MHz / QPSK



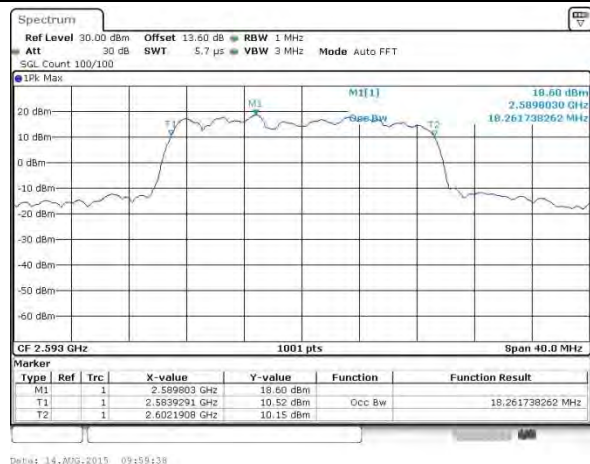
Lowest Channel / 20MHz / 16QAM



Middle Channel / 20MHz / QPSK



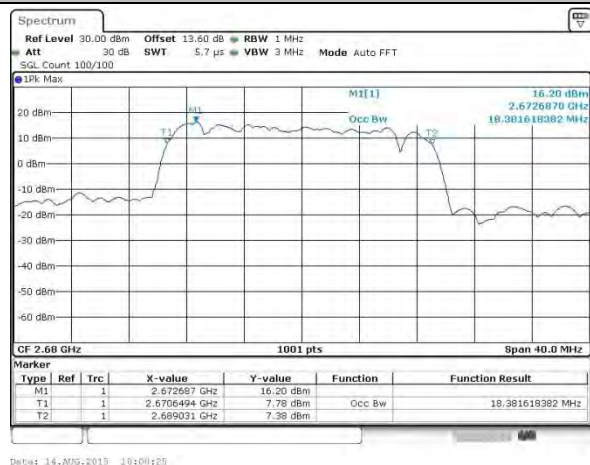
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM



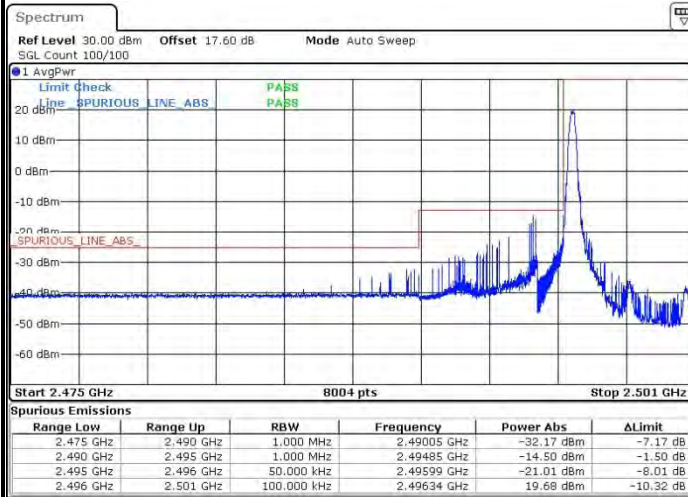


Conducted Band Edge



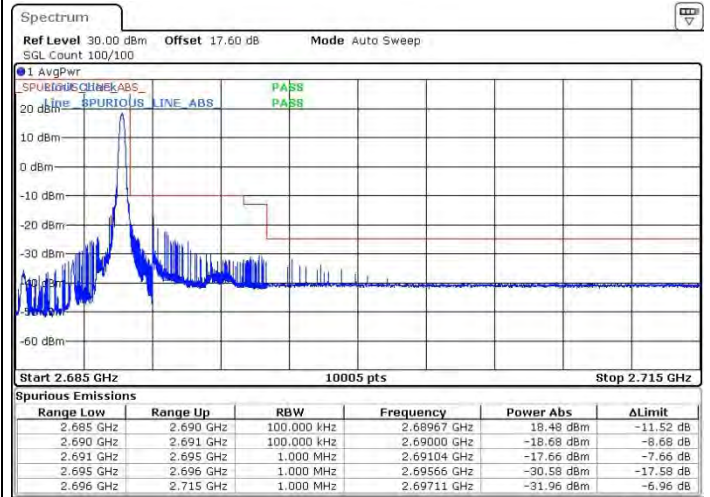
LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB



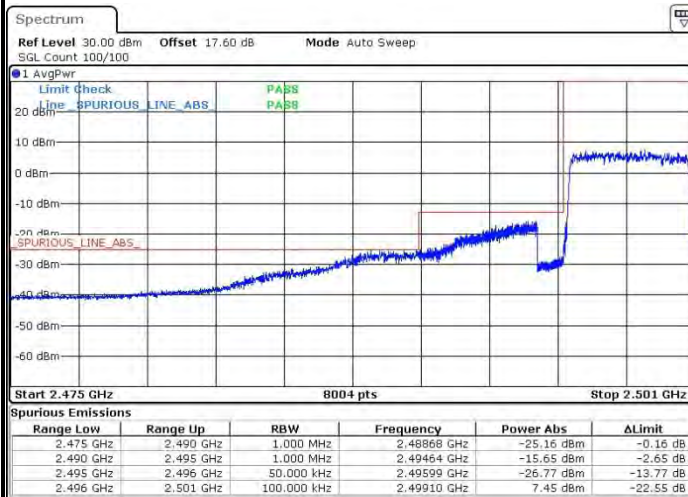
Date: 10.AUG.2015 19:33:55

Highest Band Edge / 1 RB



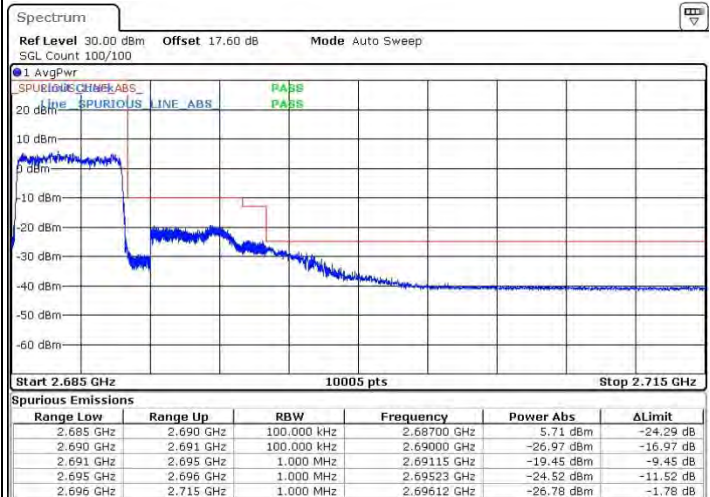
Date: 10.AUG.2015 19:35:10

Lowest Band Edge / Full RB



Date: 10.AUG.2015 19:32:08

Highest Band Edge / Full RB

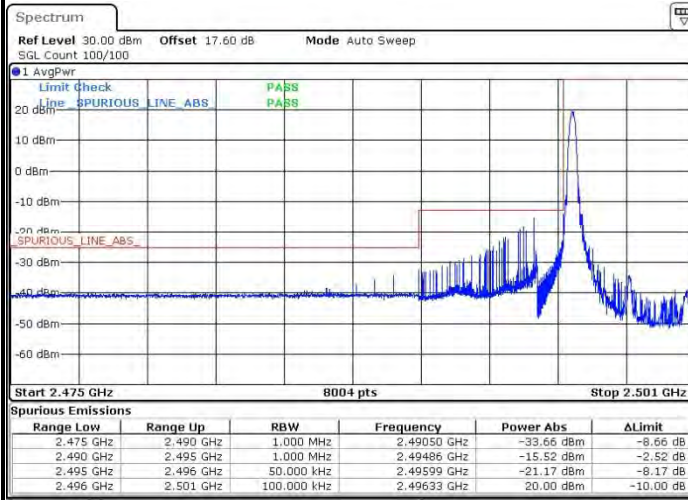


Date: 10.AUG.2015 19:36:15

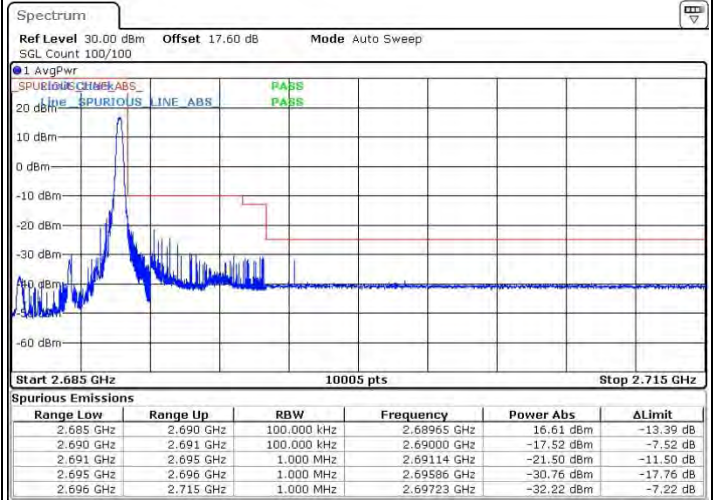


LTE Band 41 / 5MHz / 16QAM

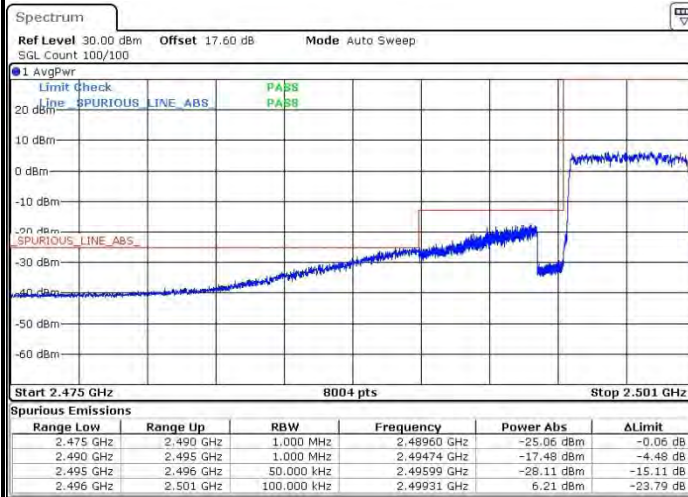
Lowest Band Edge / 1RB



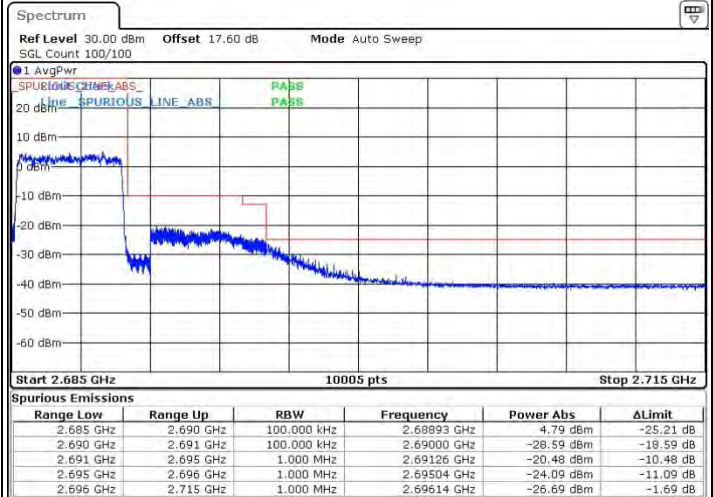
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



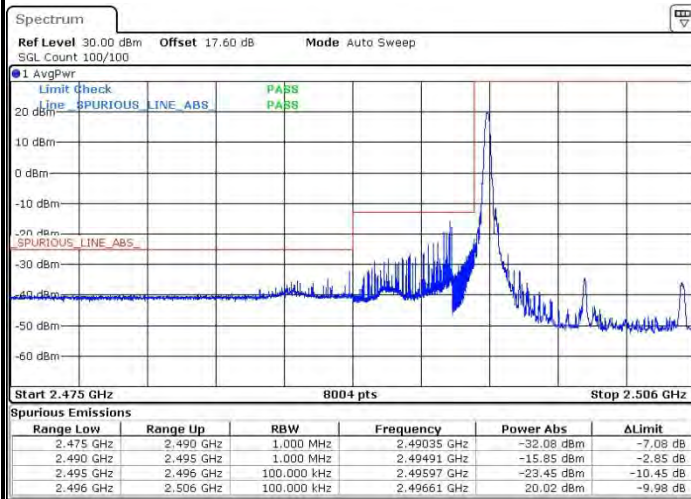
Highest Band Edge / Full RB



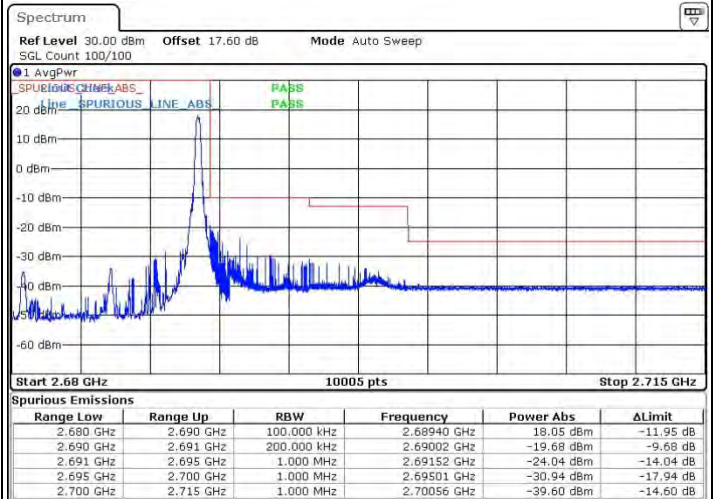


LTE Band 41 / 10MHz / QPSK

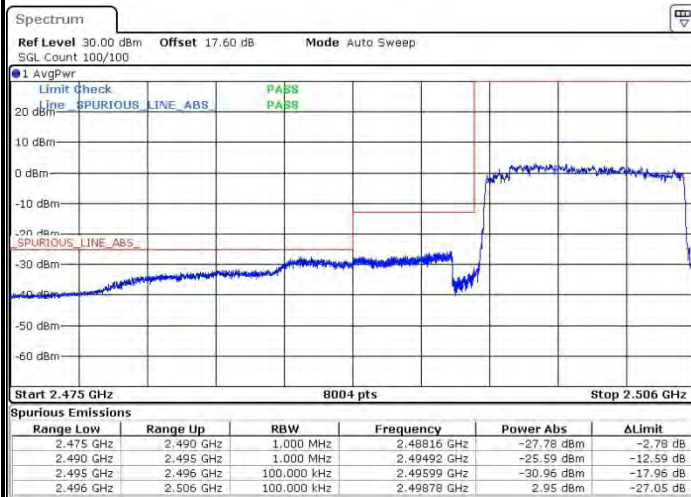
Lowest Band Edge / 1 RB



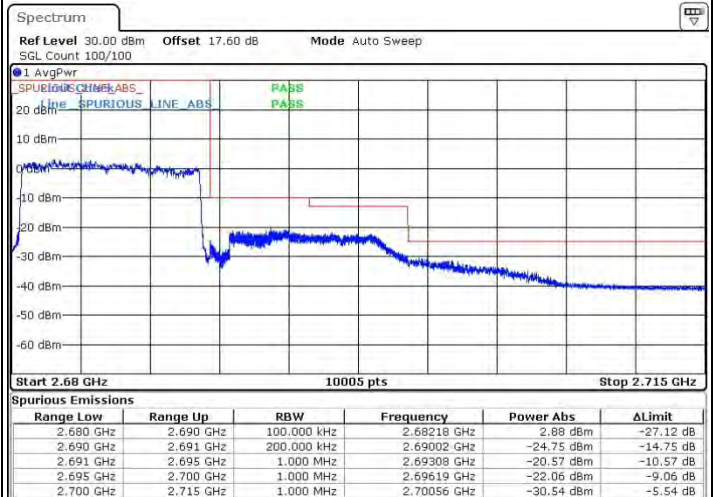
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



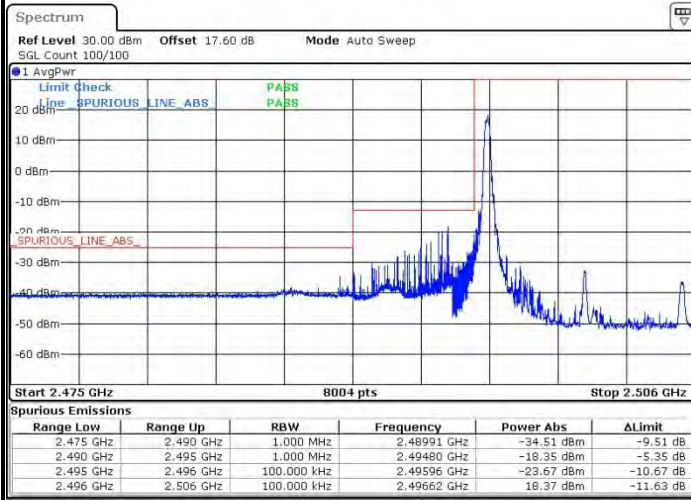
Highest Band Edge / Full RB





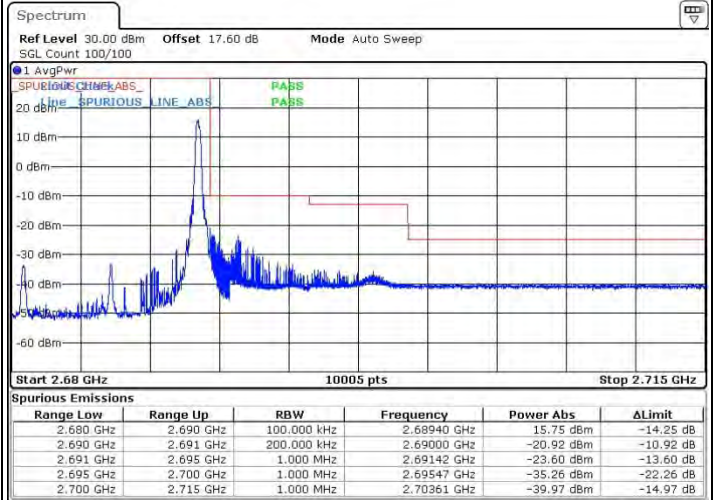
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



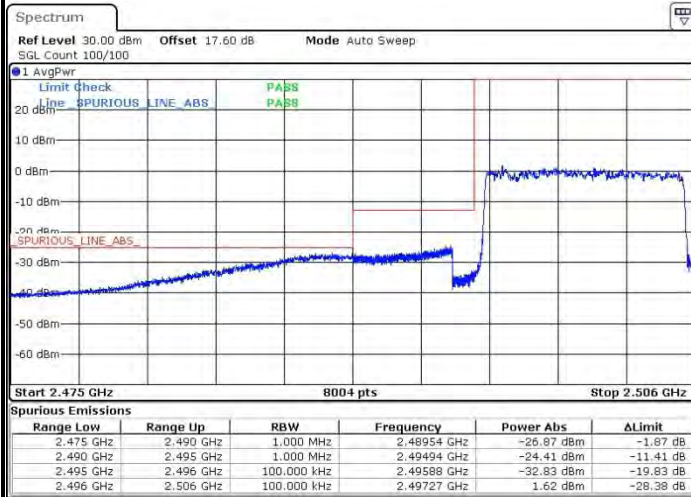
Date: 10.AUG.2015 20:07:10

Highest Band Edge / 1 RB



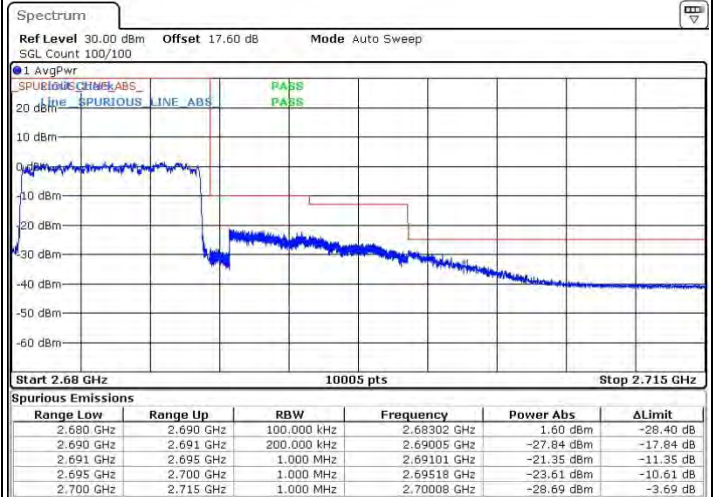
Date: 10.AUG.2015 20:05:41

Lowest Band Edge / Full RB



Date: 10.AUG.2015 20:07:29

Highest Band Edge / Full RB

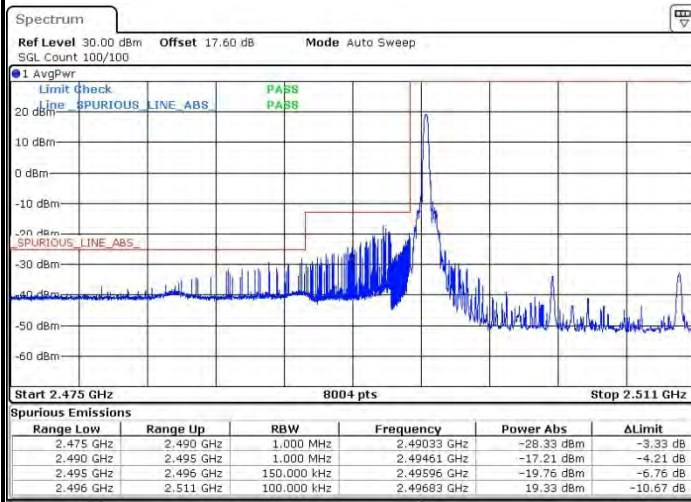


Date: 10.AUG.2015 20:05:17

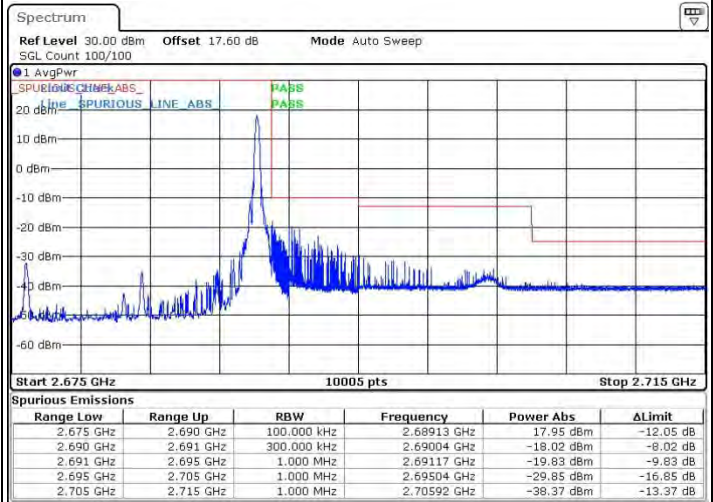


LTE Band 41 / 15MHz / QPSK

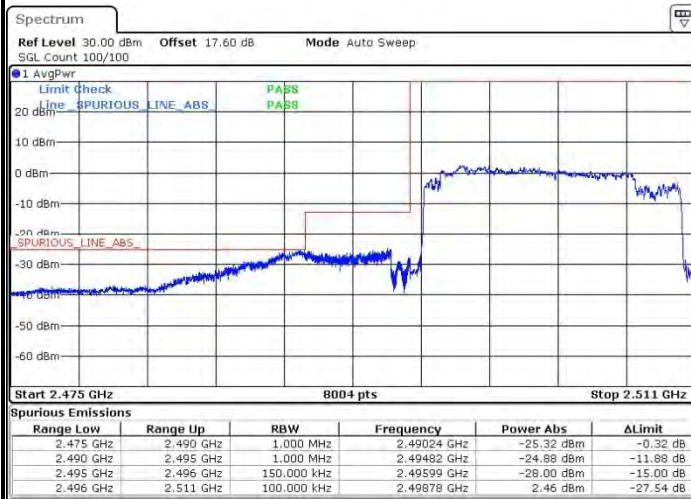
Lowest Band Edge / 1 RB



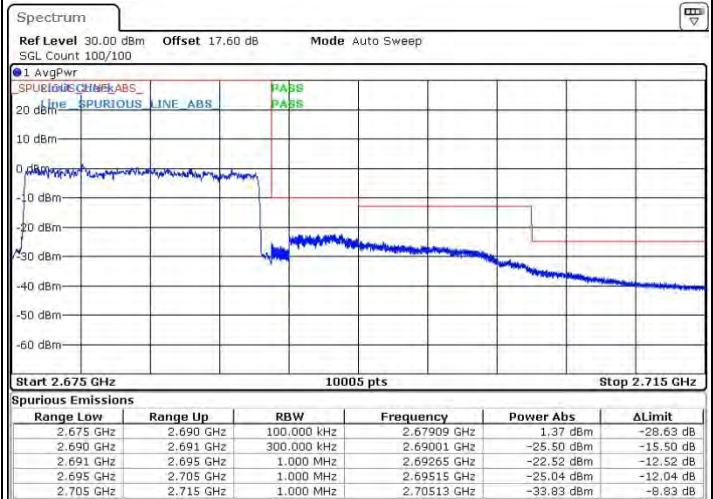
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



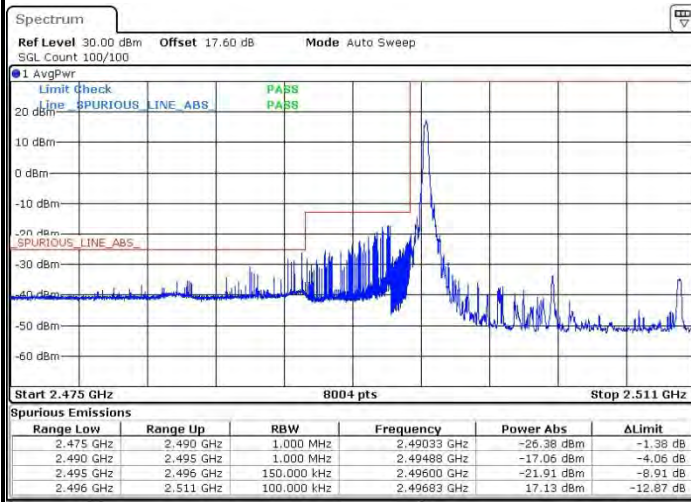
Highest Band Edge / Full RB





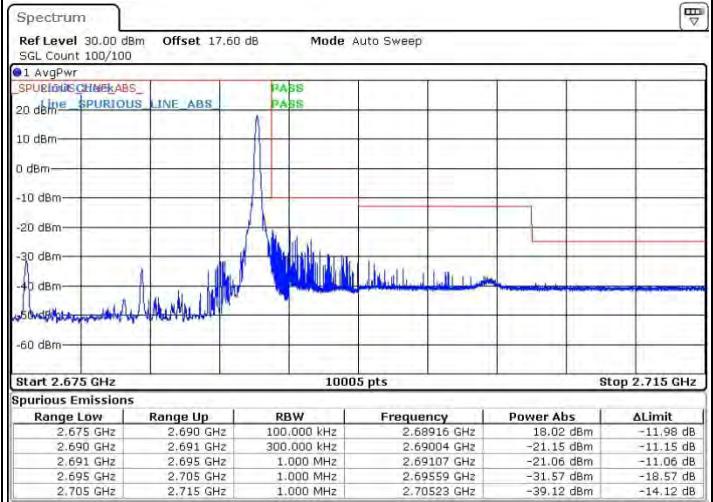
LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



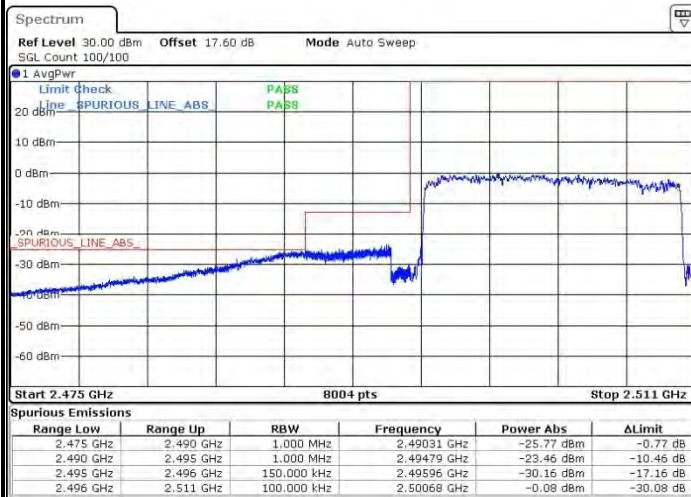
Date: 10.AUG.2015 20:11:02

Highest Band Edge / 1 RB



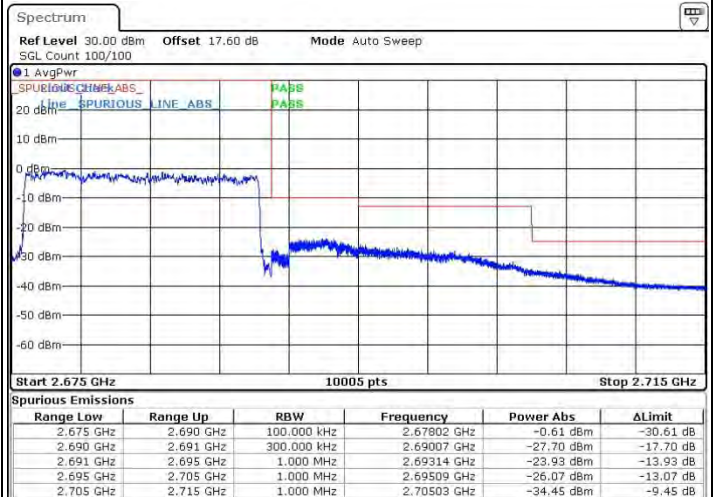
Date: 10.AUG.2015 20:13:19

Lowest Band Edge / Full RB



Date: 10.AUG.2015 20:09:40

Highest Band Edge / Full RB

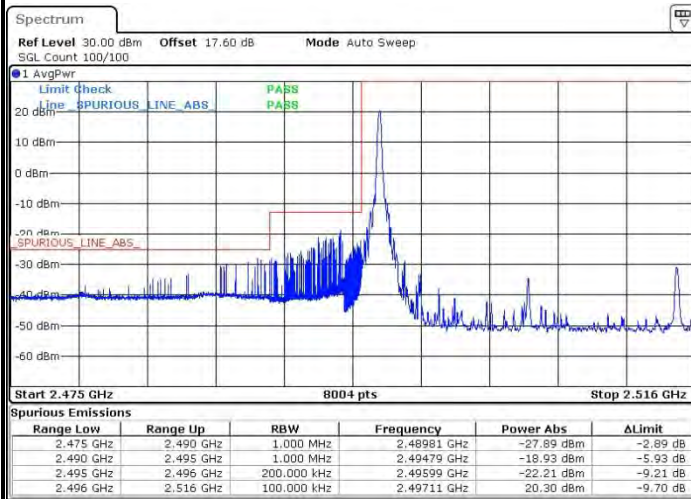


Date: 10.AUG.2015 20:13:47



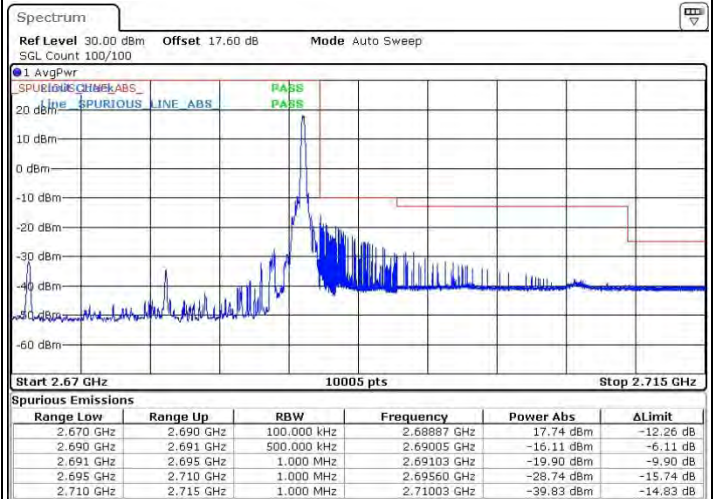
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



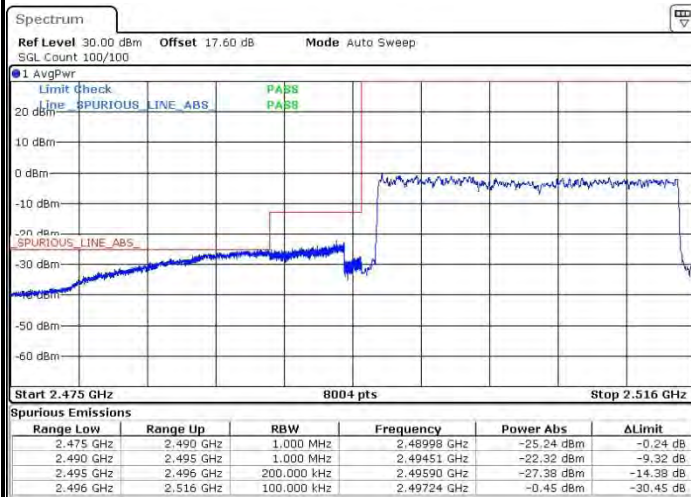
Date: 10.AUG.2015 20:17:26

Highest Band Edge / 1 RB



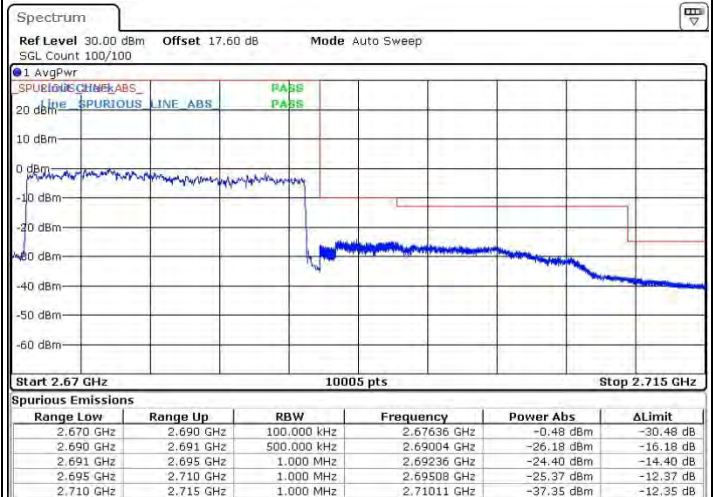
Date: 10.AUG.2015 20:16:52

Lowest Band Edge / Full RB



Date: 10.AUG.2015 20:22:57

Highest Band Edge / Full RB

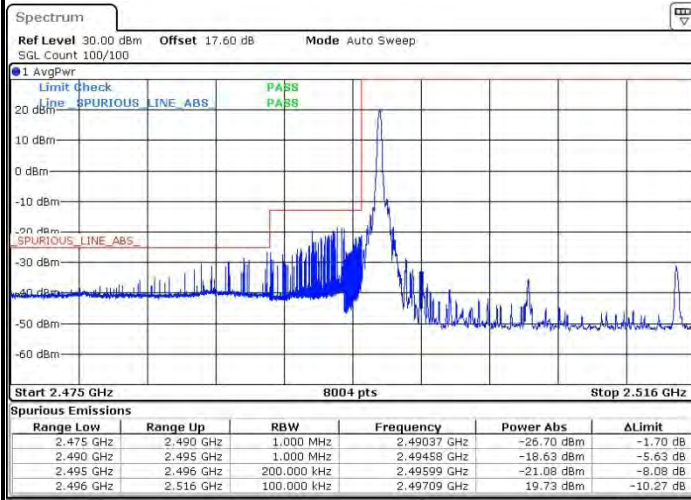


Date: 10.AUG.2015 20:15:29



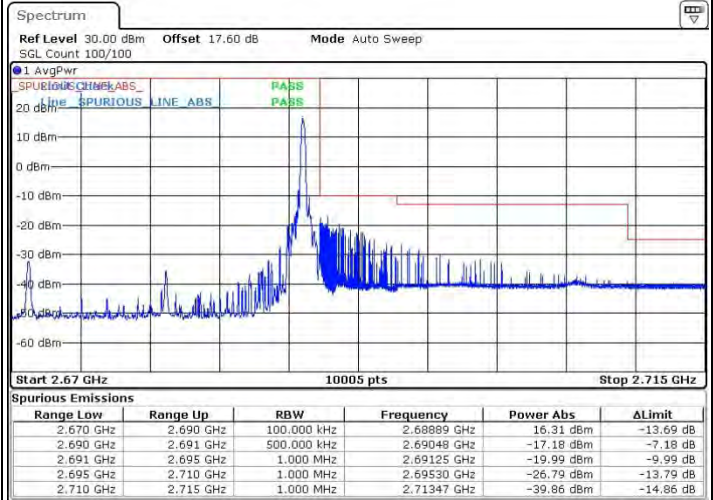
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



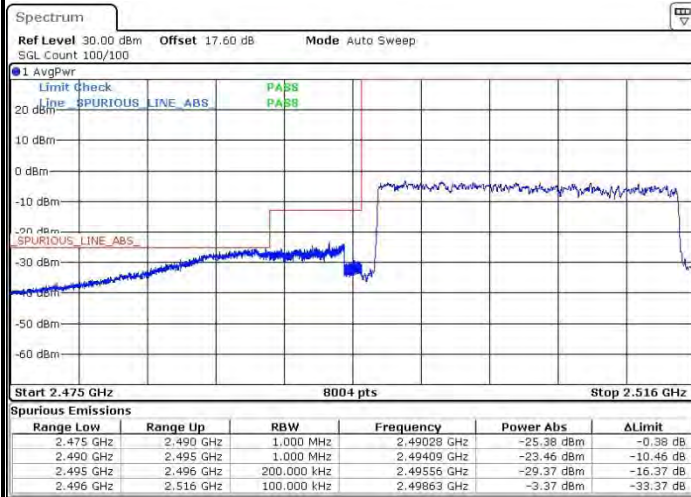
Date: 10.AUG.2015 20:17:46

Highest Band Edge / 1 RB



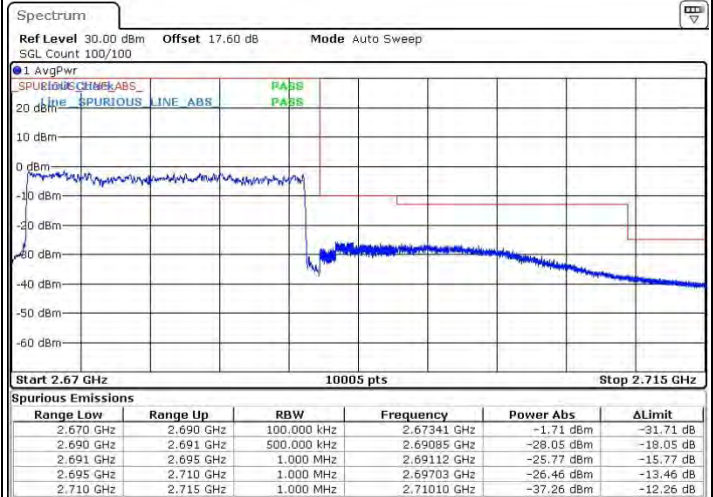
Date: 10.AUG.2015 20:16:26

Lowest Band Edge / Full RB



Date: 10.AUG.2015 20:22:15

Highest Band Edge / Full RB



Date: 10.AUG.2015 20:16:02

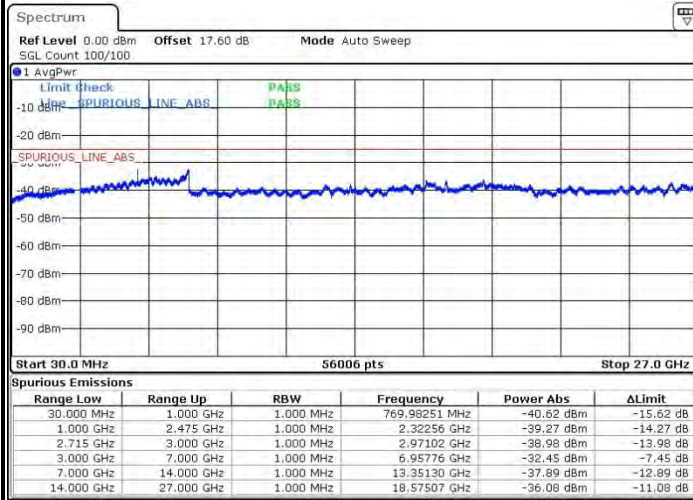


Conducted Spurious Emission



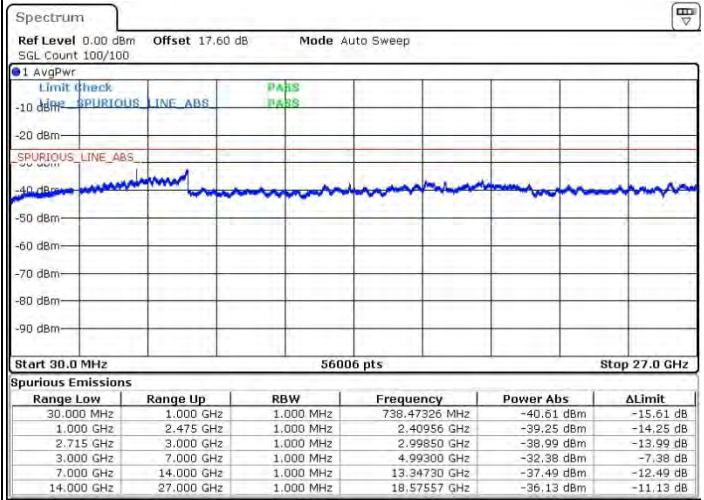
LTE Band 41 / 5MHz

Lowest Channel / QPSK



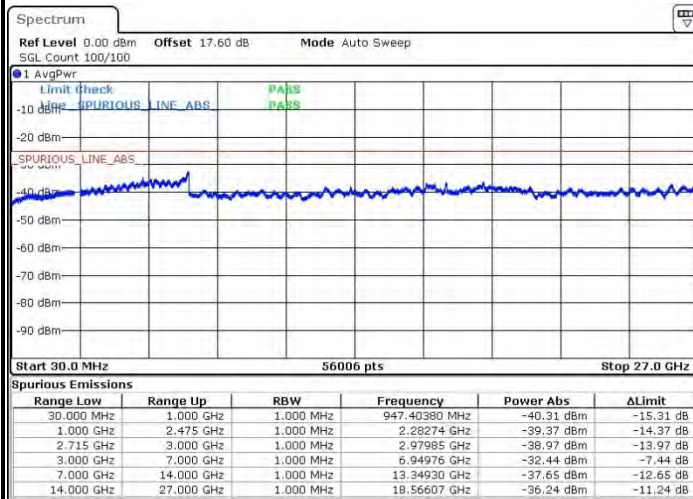
Date: 11.AUG.2015 10:21:53

Lowest Channel / 16QAM



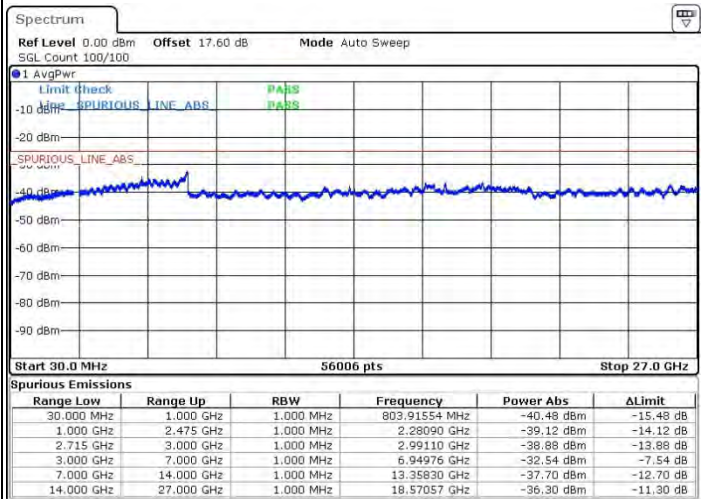
Date: 11.AUG.2015 10:23:03

Middle Channel / QPSK



Date: 11.AUG.2015 10:25:51

Middle Channel / 16QAM

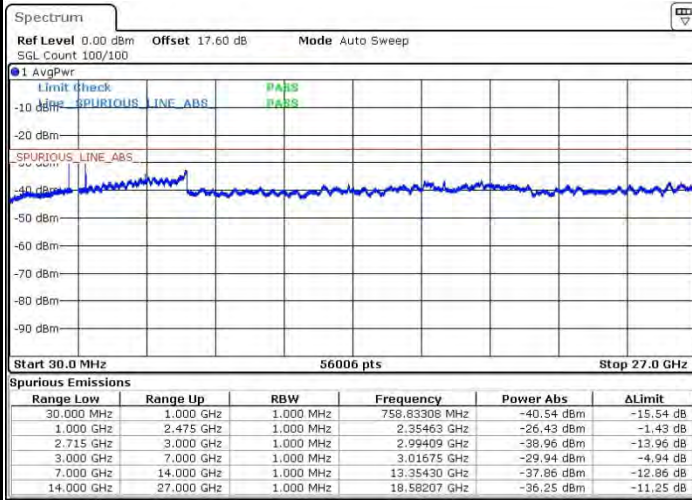


Date: 11.AUG.2015 10:24:38



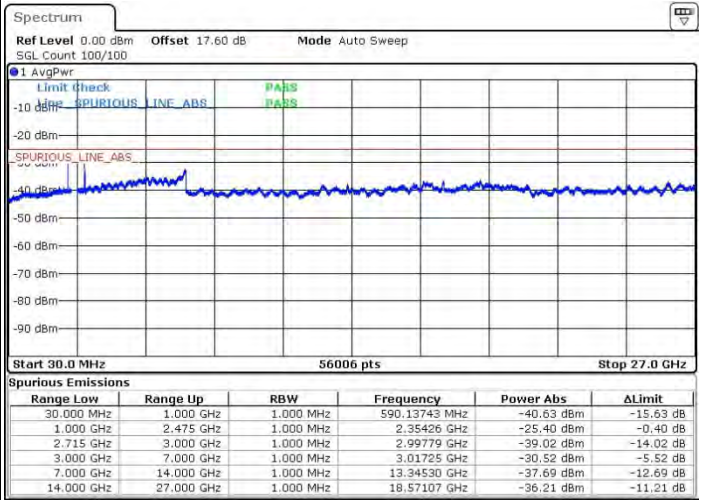
LTE Band 41 / 5MHz

Highest Channel / QPSK



Date: 11.AUG.2015 10:27:15

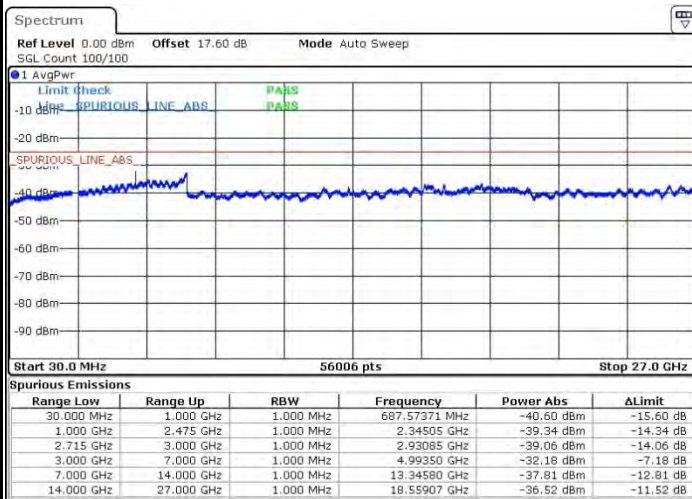
Highest Channel / 16QAM



Date: 11.AUG.2015 10:28:28

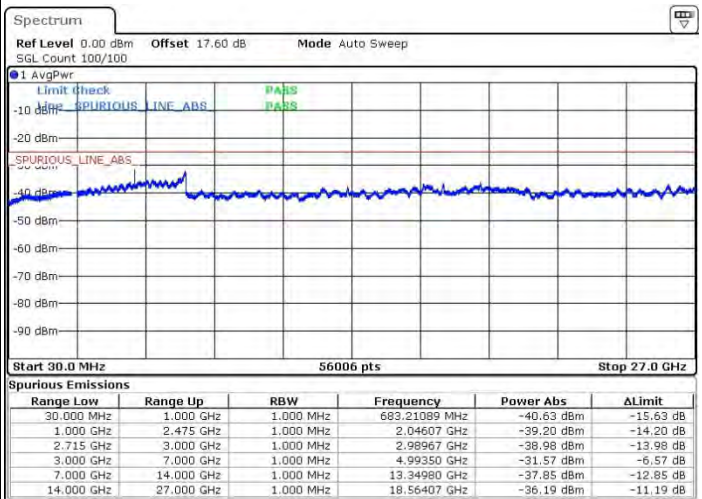
LTE Band 41 / 10MHz

Lowest Channel / QPSK



Date: 11.AUG.2015 10:41:58

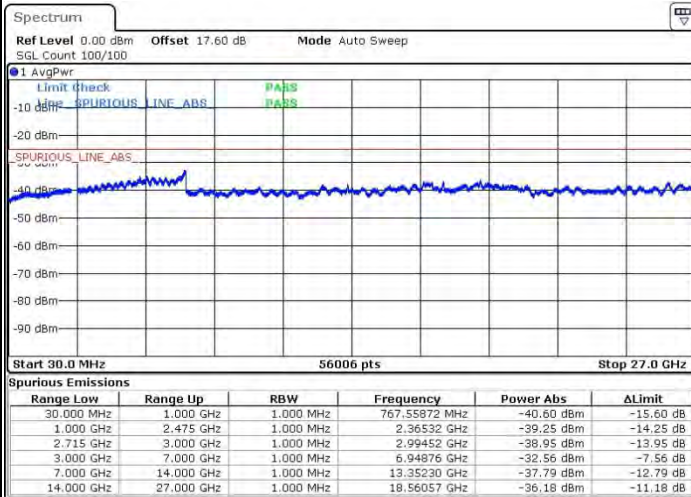
Lowest Channel / 16QAM



Date: 11.AUG.2015 10:43:10

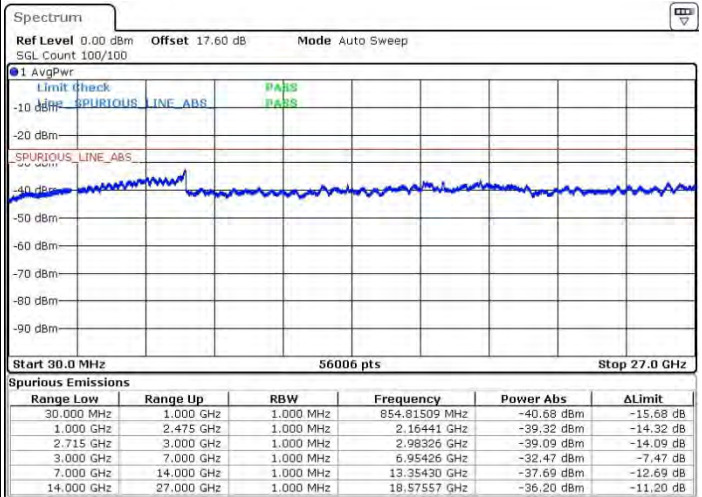
LTE Band 41 / 10MHz

Middle Channel / QPSK



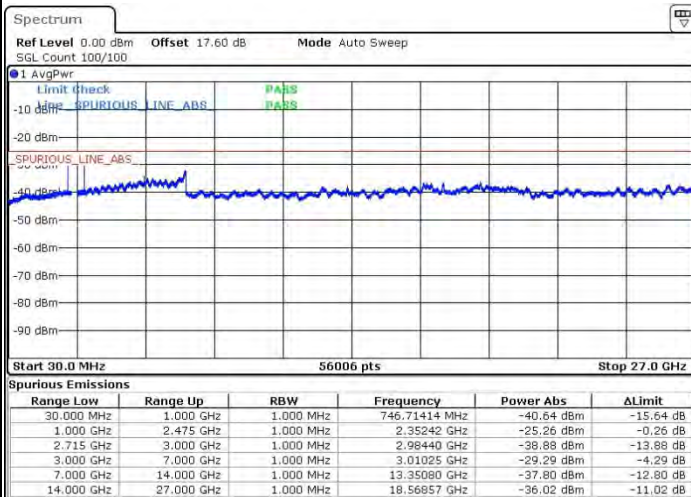
Date: 11.AUG.2015 10:40:40

Middle Channel / 16QAM



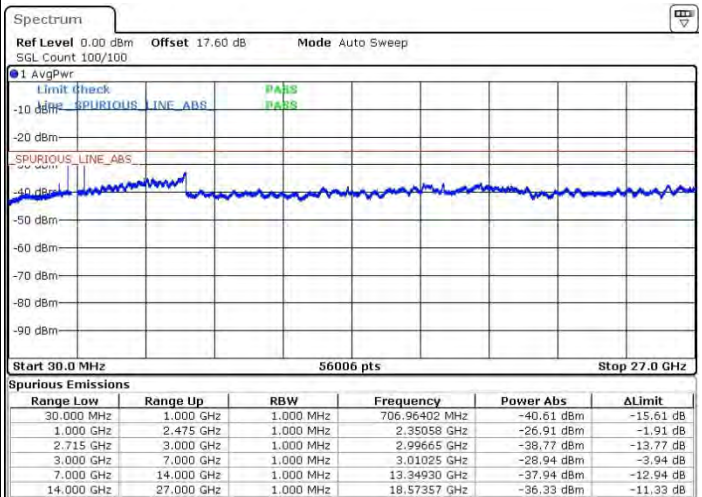
Date: 11.AUG.2015 10:37:06

Highest Channel / QPSK



Date: 11.AUG.2015 10:32:31

Highest Channel / 16QAM

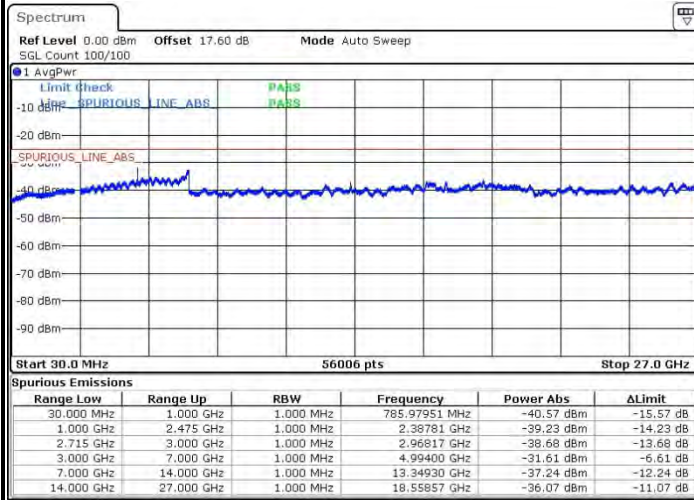


Date: 11.AUG.2015 10:34:38



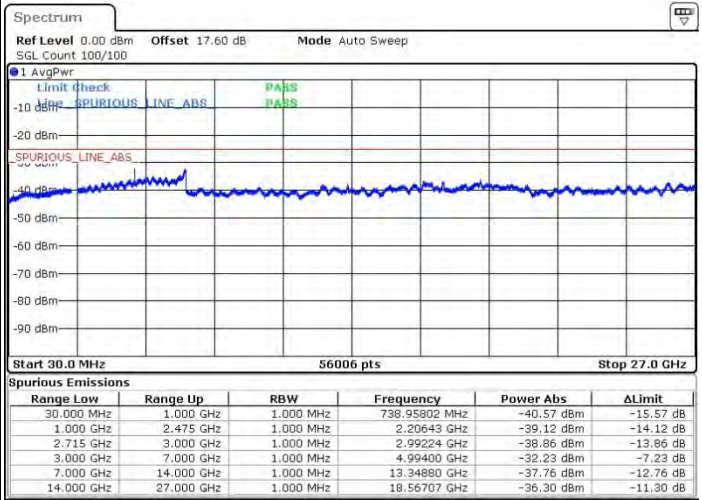
LTE Band 41 / 15MHz

Lowest Channel / QPSK



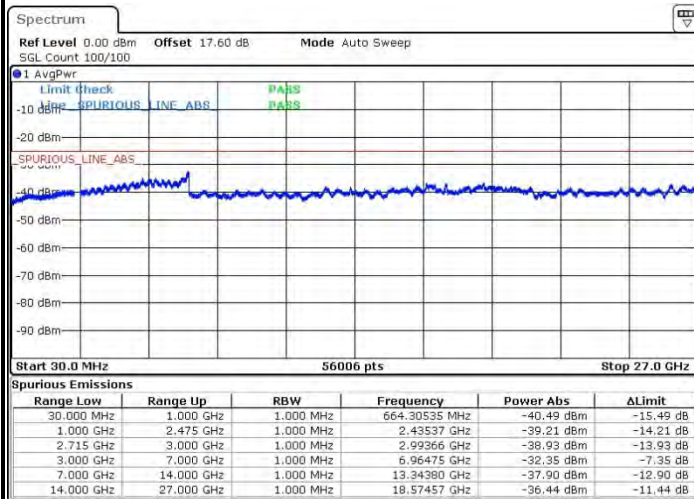
Date: 11.AUG.2015 10:44:54

Lowest Channel / 16QAM



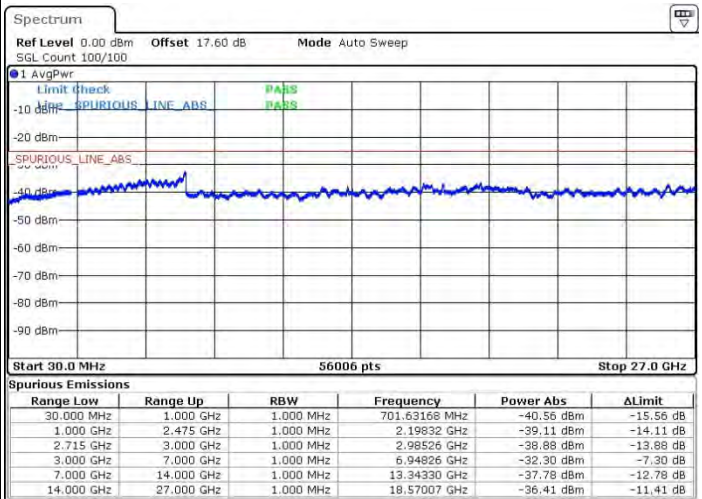
Date: 11.AUG.2015 10:46:08

Middle Channel / QPSK



Date: 11.AUG.2015 10:49:19

Middle Channel / 16QAM

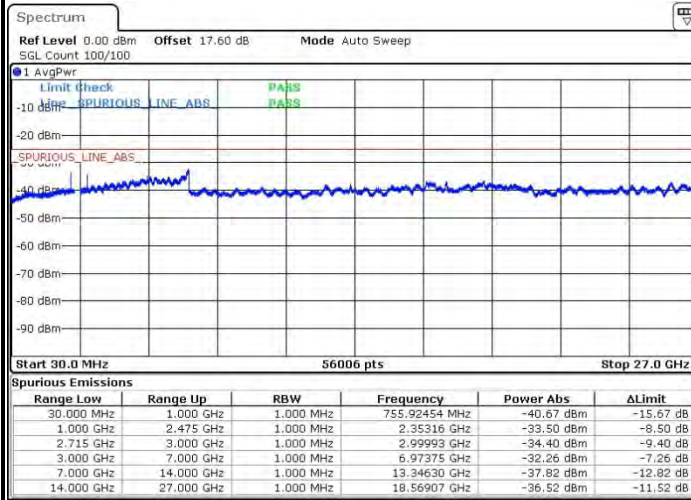


Date: 11.AUG.2015 10:48:07



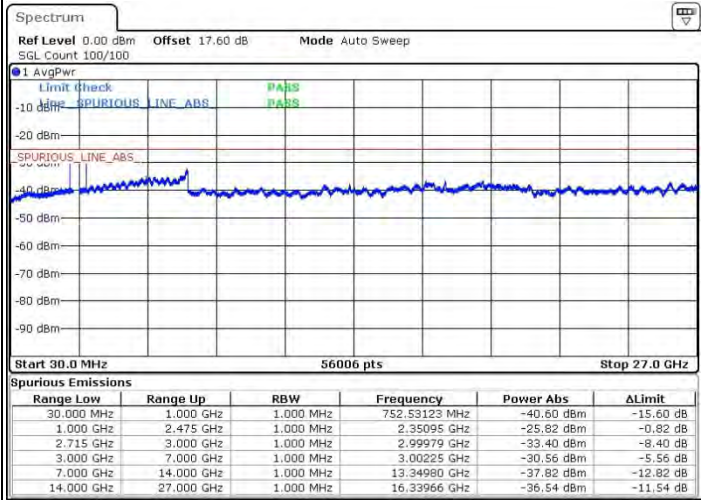
LTE Band 41 / 15MHz

Highest Channel / QPSK



Date: 11.AUG.2015 10:56:21

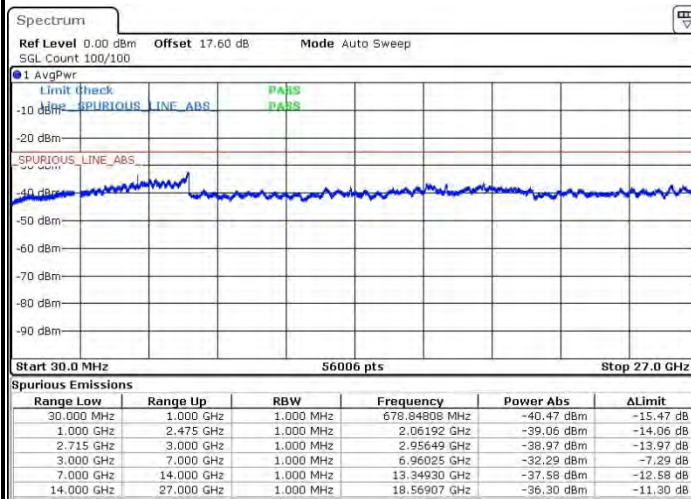
Highest Channel / 16QAM



Date: 11.AUG.2015 10:58:44

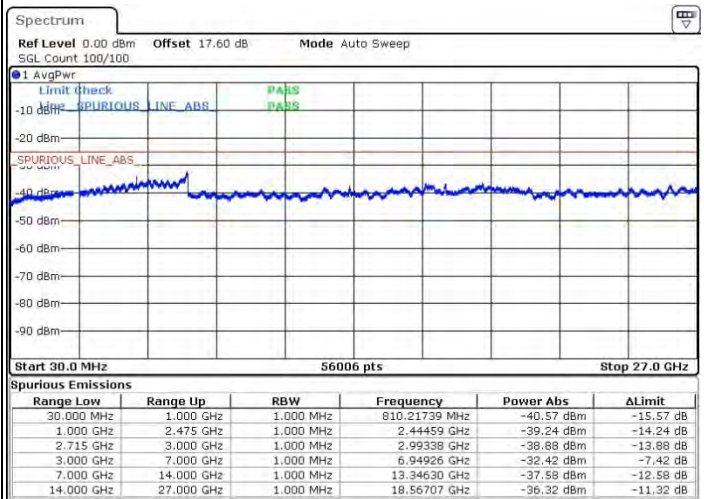
LTE Band 41 / 20MHz

Lowest Channel / QPSK



Date: 11.AUG.2015 11:23:33

Lowest Channel / 16QAM

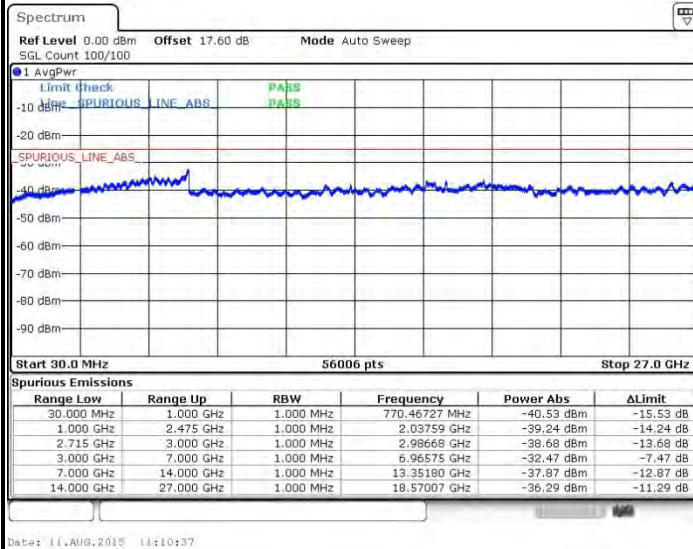


Date: 11.AUG.2015 11:15:46

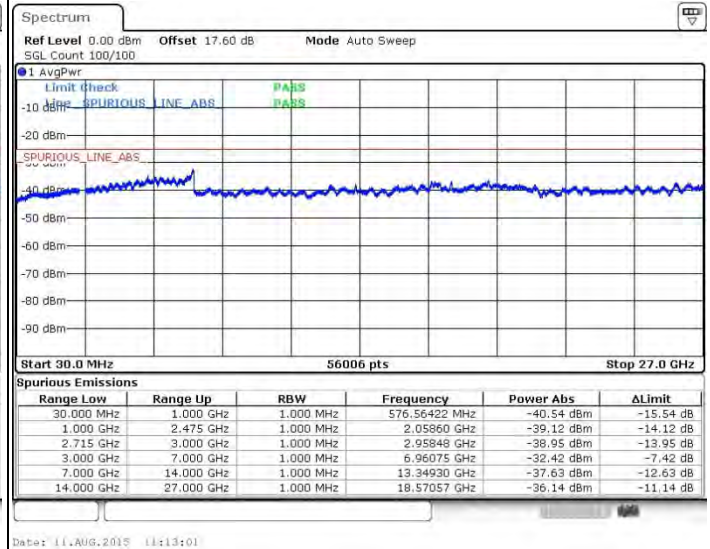


LTE Band 41 / 20MHz

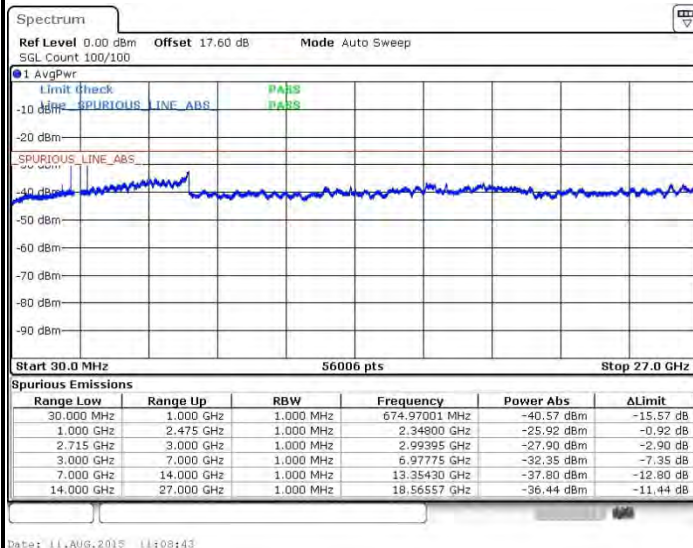
Middle Channel / QPSK



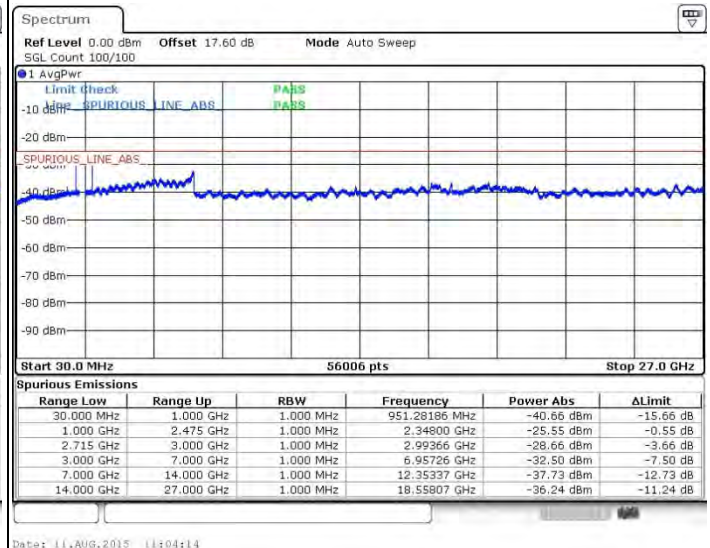
Middle Channel / 16QAM



Highest Channel / QPSK



Highest Channel / 16QAM



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage = 4.00V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.