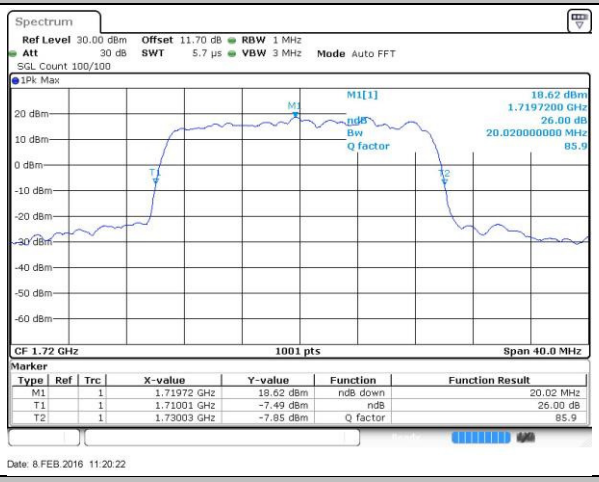
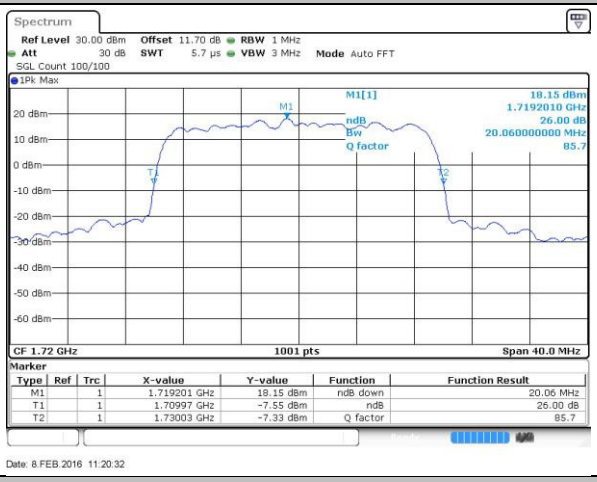
LTE Band 4

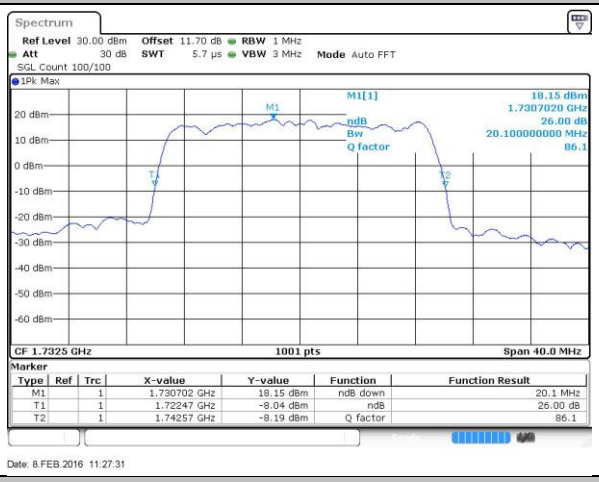
Lowest Channel / 20MHz / QPSK



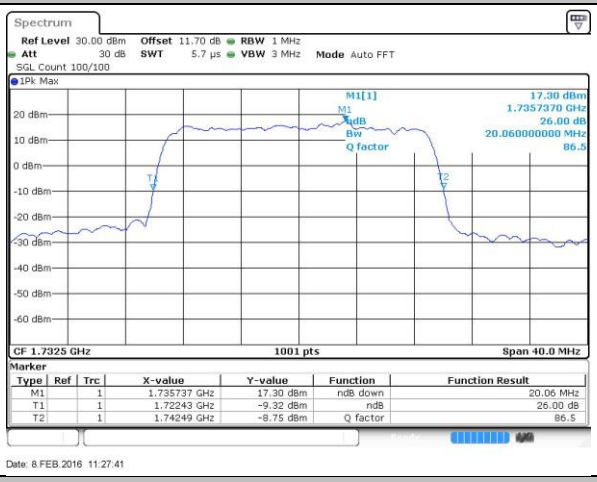
Lowest Channel / 20MHz / 16QAM



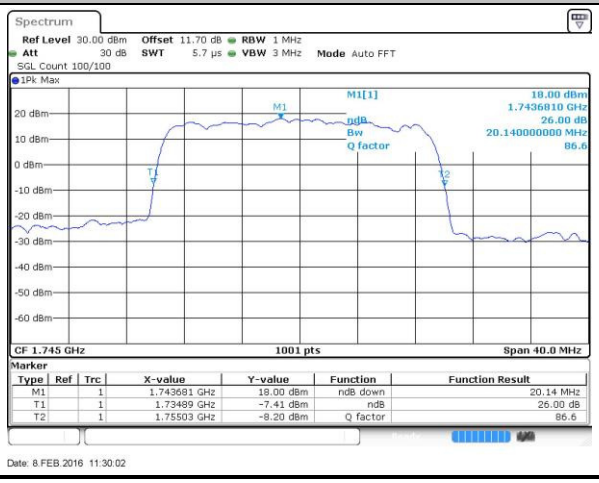
Middle Channel / 20MHz / QPSK



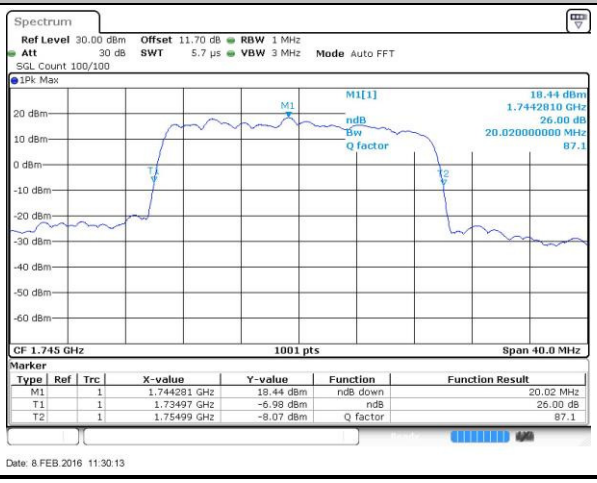
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM

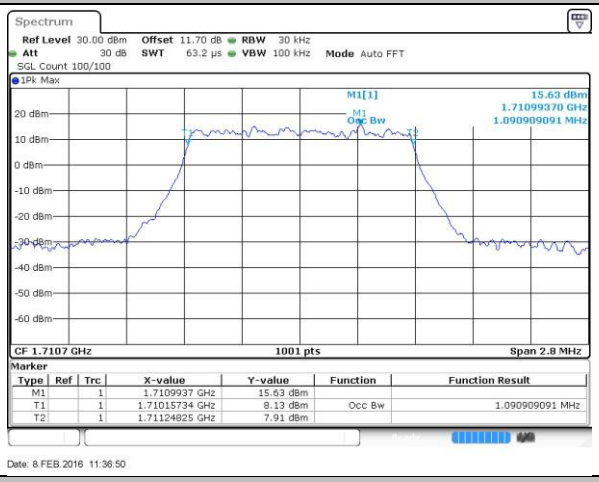


Occupied Bandwidth

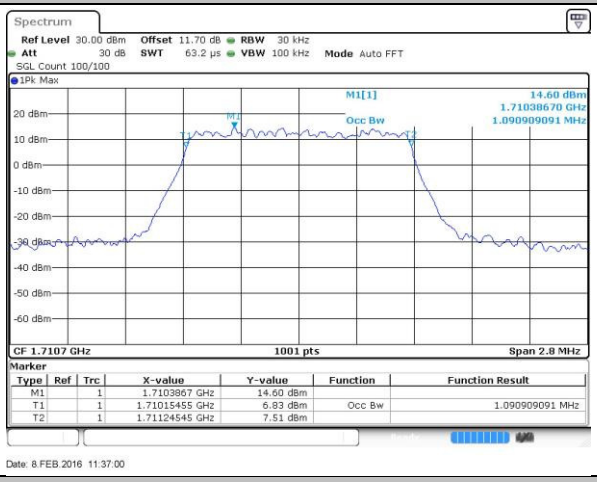
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.7	2.74	4.47	4.51	8.99	9.03	13.37	13.43	18.14	18.22
Middle CH	1.09	1.1	2.71	2.72	4.49	4.48	9.03	8.97	13.34	13.37	18.42	18.3
Highest CH	1.09	1.1	2.72	2.72	4.49	4.46	8.95	9.01	13.46	13.43	18.3	18.34

LTE Band 4

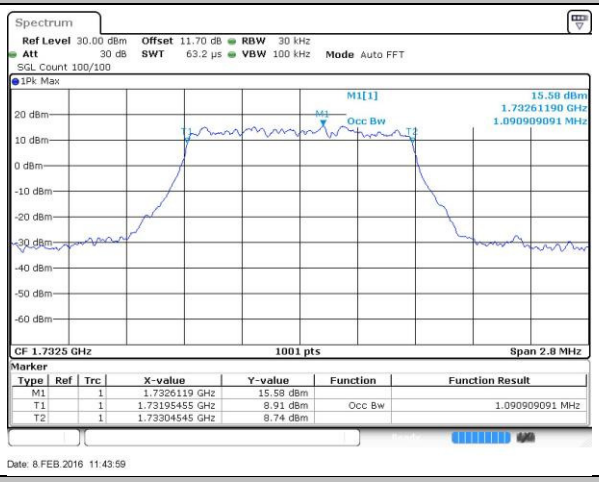
Lowest Channel / 1.4MHz / QPSK



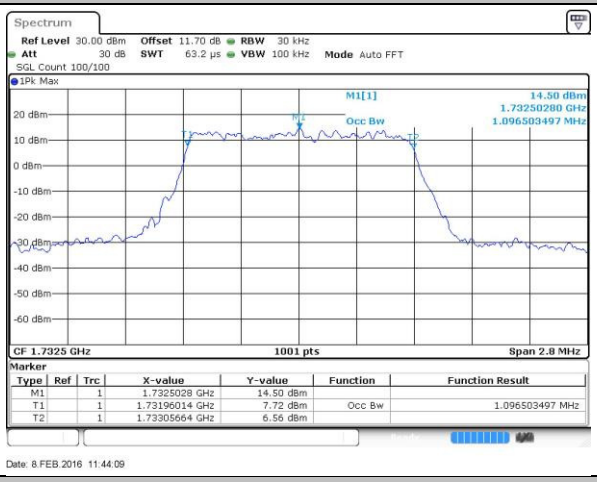
Lowest Channel / 1.4MHz / 16QAM



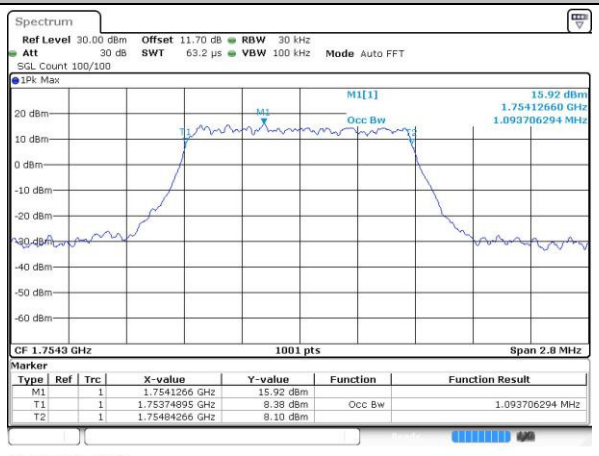
Middle Channel / 1.4MHz / QPSK



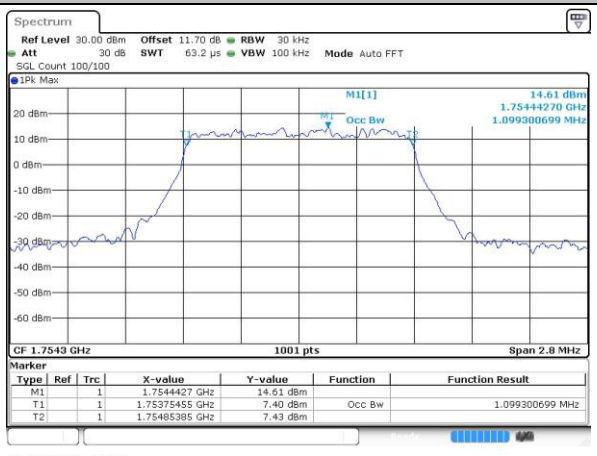
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

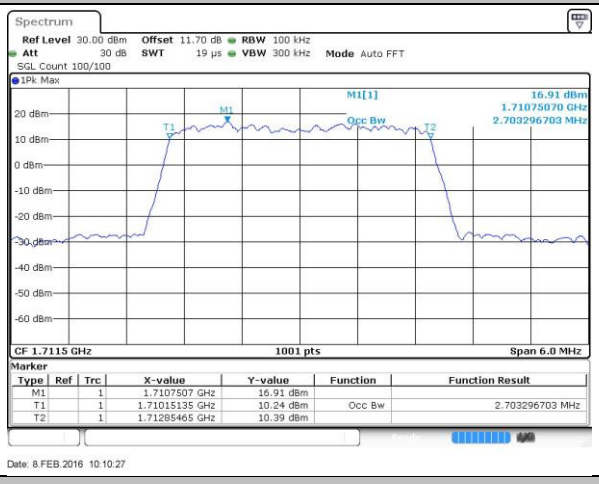


Highest Channel / 1.4MHz / 16QAM

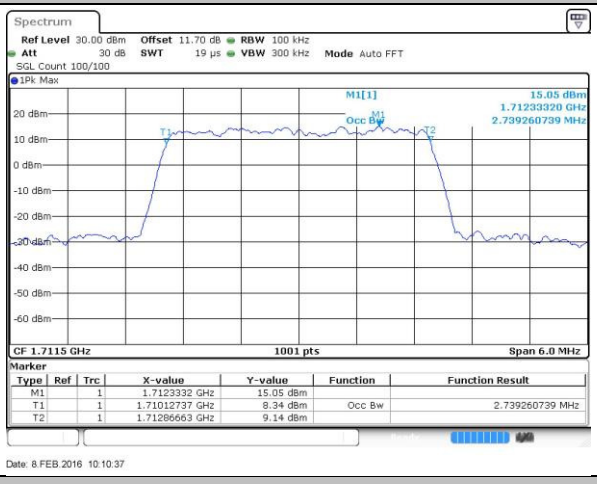


LTE Band 4

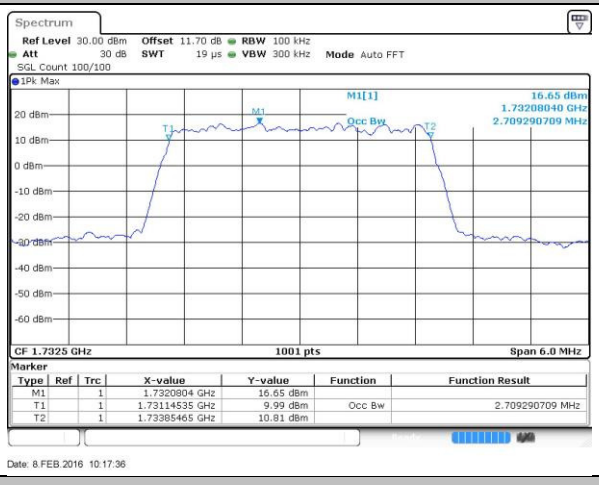
Lowest Channel / 3MHz / QPSK



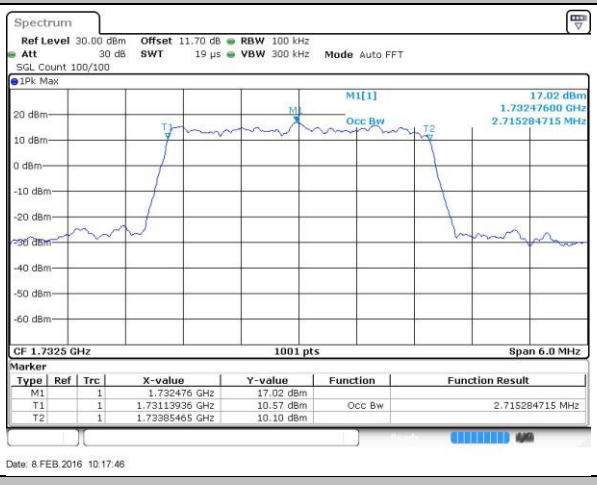
Lowest Channel / 3MHz / 16QAM



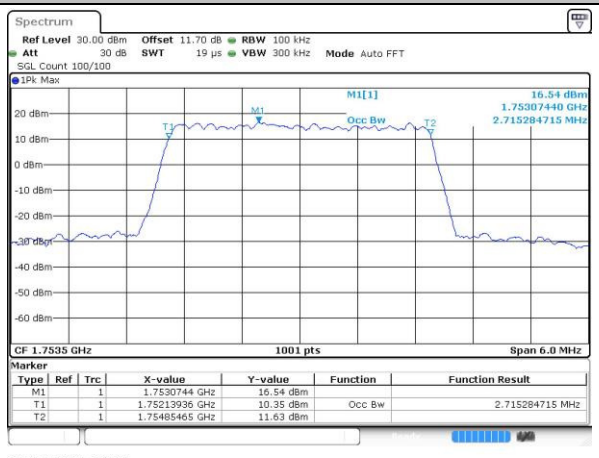
Middle Channel / 3MHz / QPSK



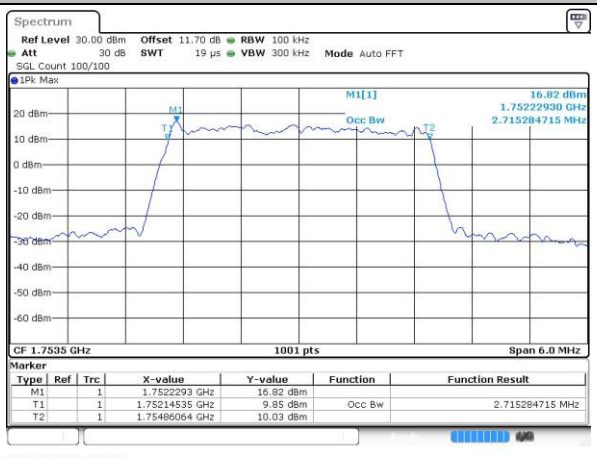
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

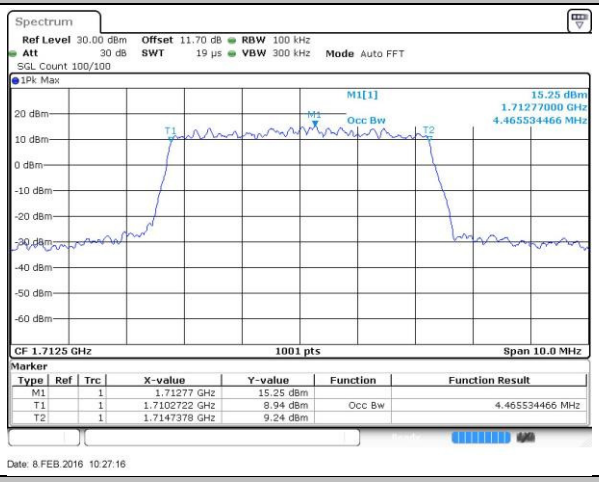


Highest Channel / 3MHz / 16QAM

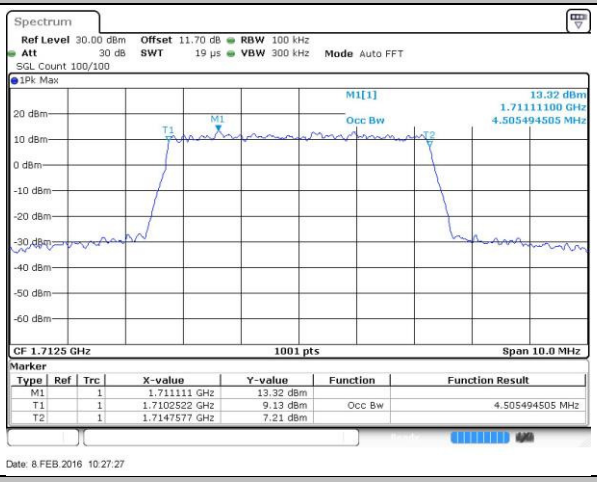


LTE Band 4

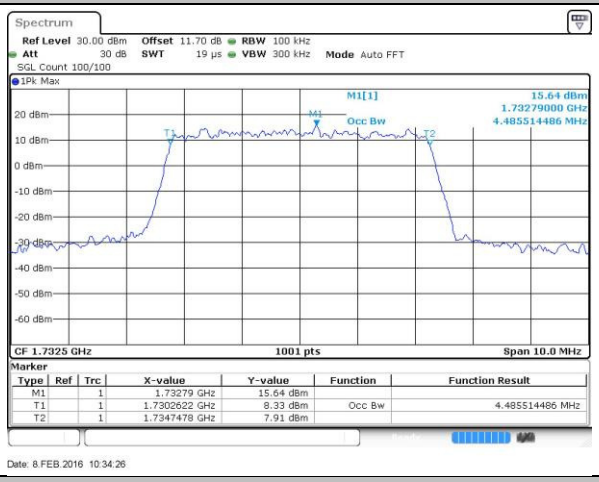
Lowest Channel / 5MHz / QPSK



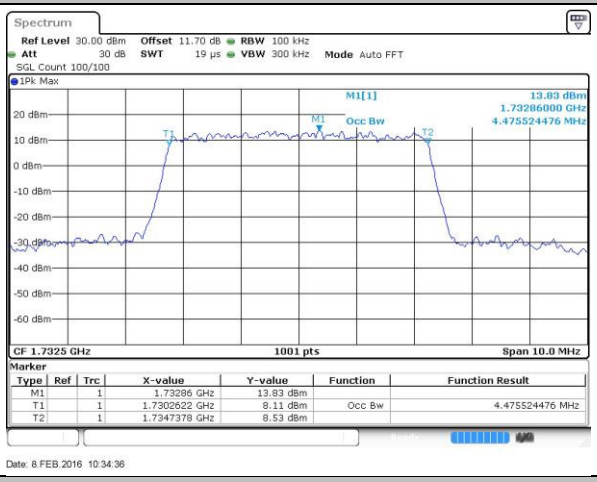
Lowest Channel / 5MHz / 16QAM



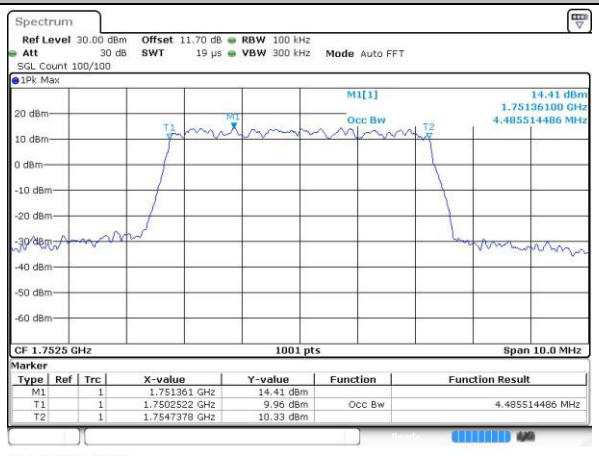
Middle Channel / 5MHz / QPSK



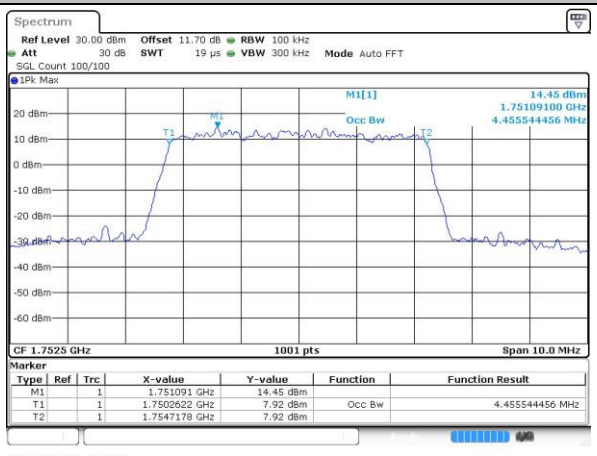
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

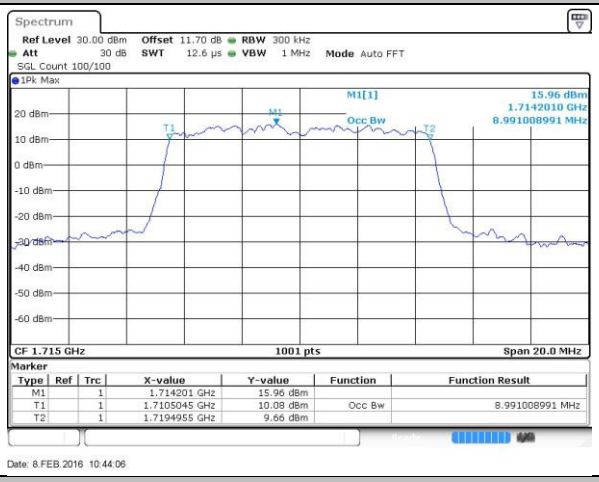


Highest Channel / 5MHz / 16QAM

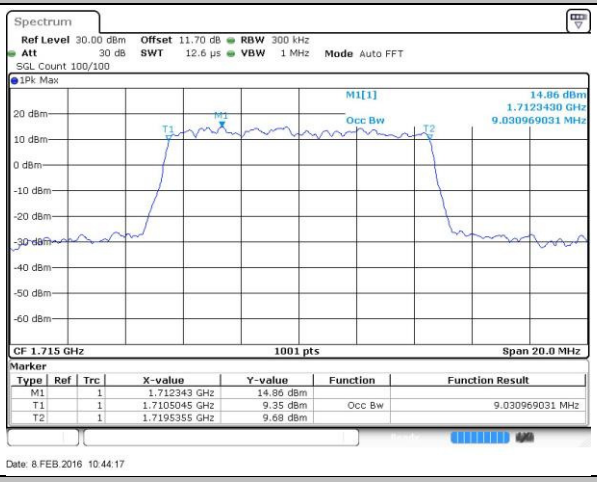


LTE Band 4

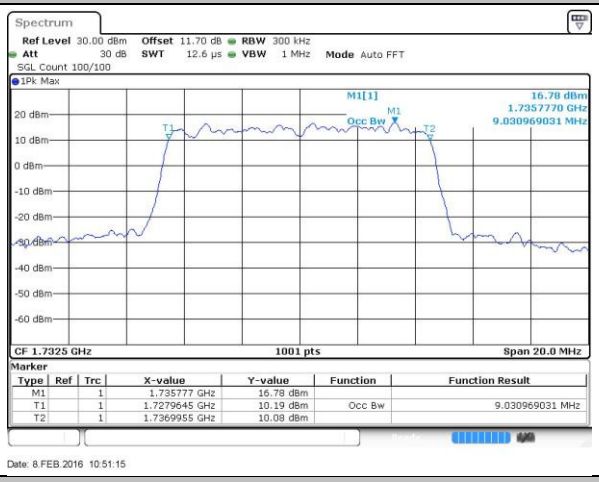
Lowest Channel / 10MHz / QPSK



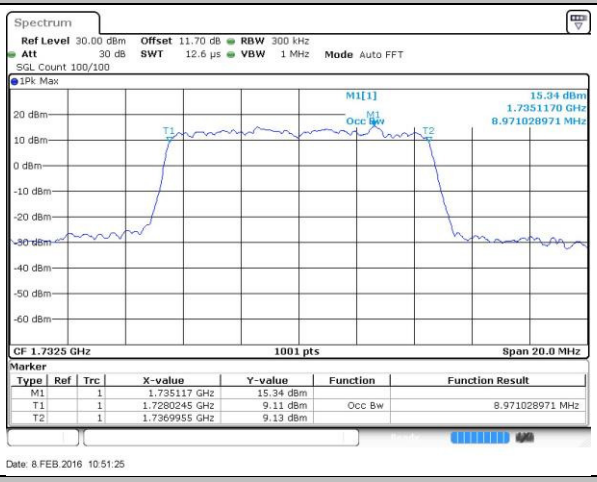
Lowest Channel / 10MHz / 16QAM



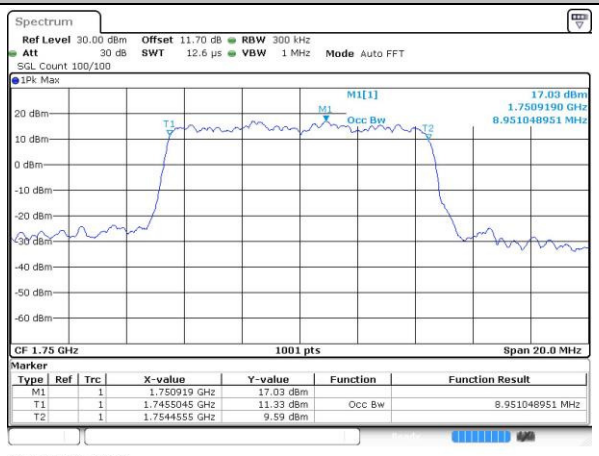
Middle Channel / 10MHz / QPSK



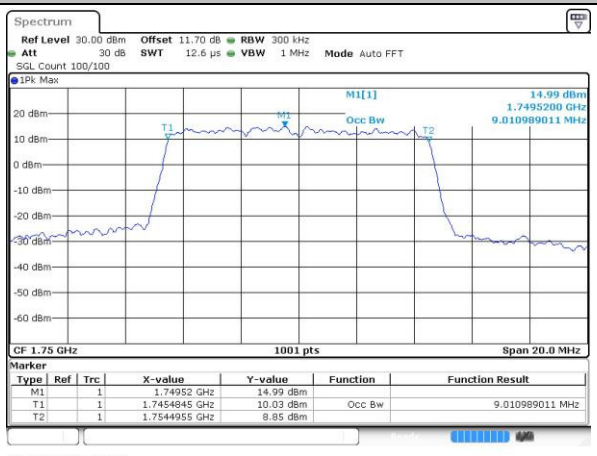
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

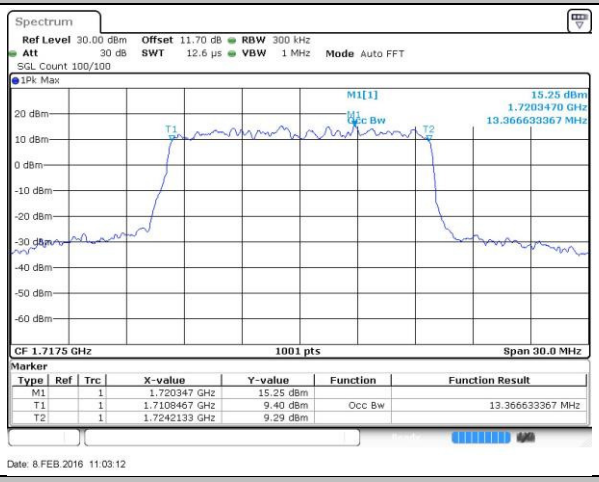


Highest Channel / 10MHz / 16QAM

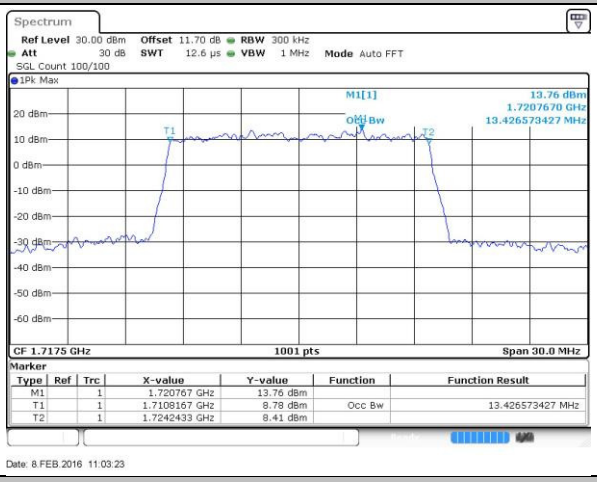


LTE Band 4

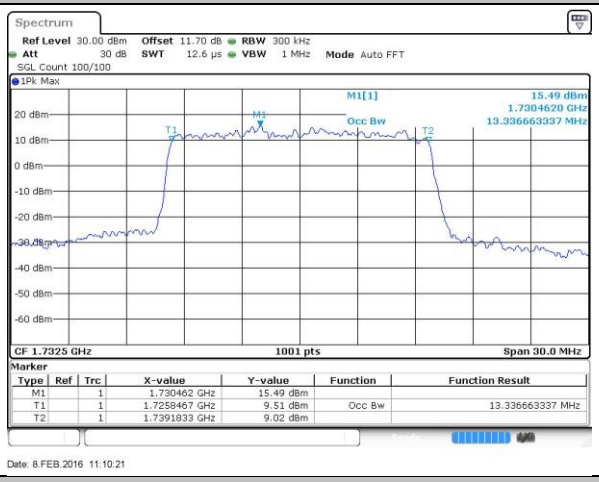
Lowest Channel / 15MHz / QPSK



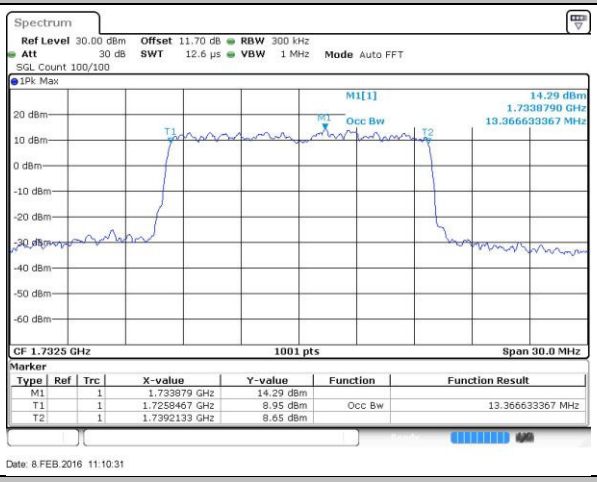
Lowest Channel / 15MHz / 16QAM



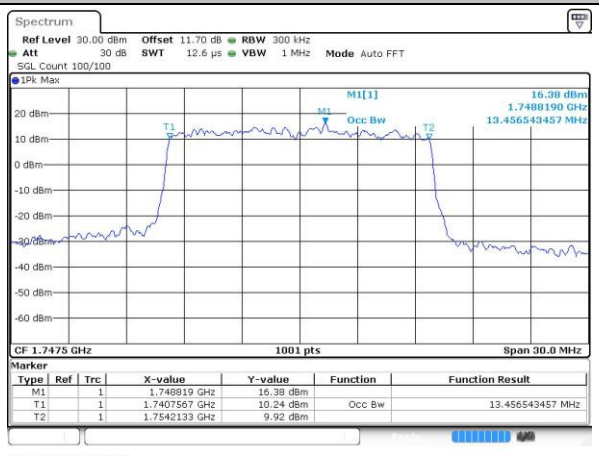
Middle Channel / 15MHz / QPSK



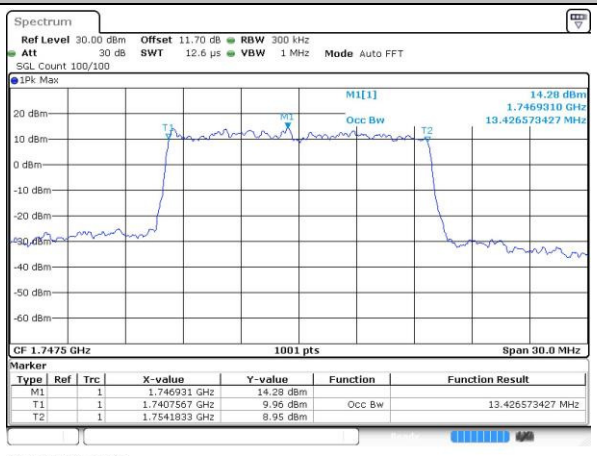
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

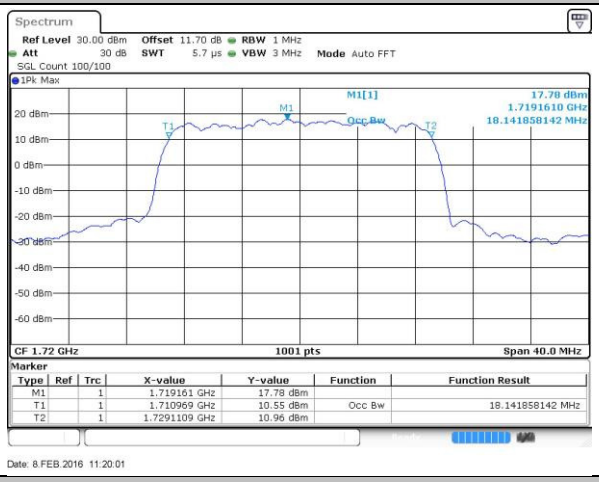


Highest Channel / 15MHz / 16QAM

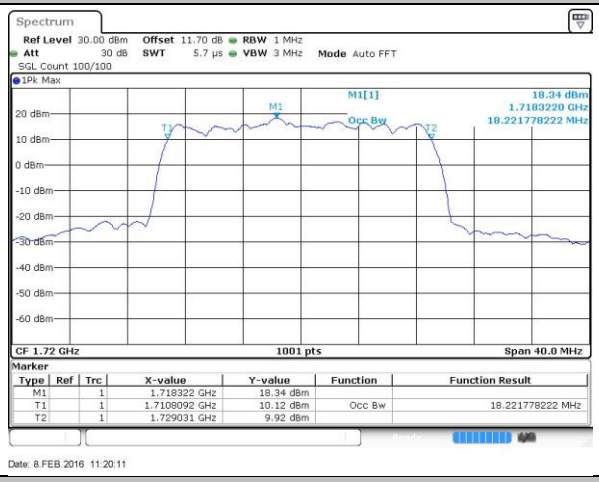


LTE Band 4

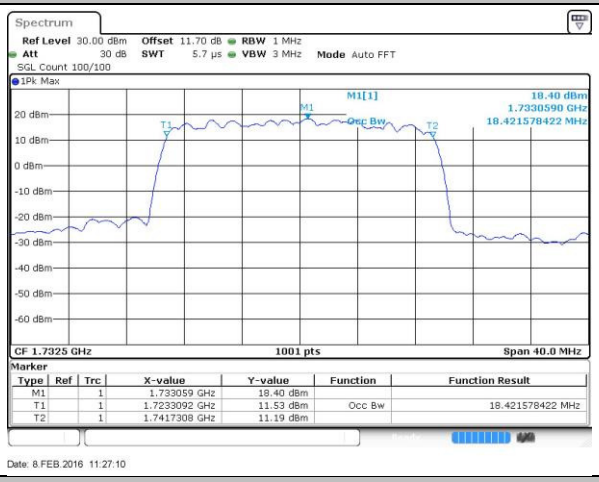
Lowest Channel / 20MHz / QPSK



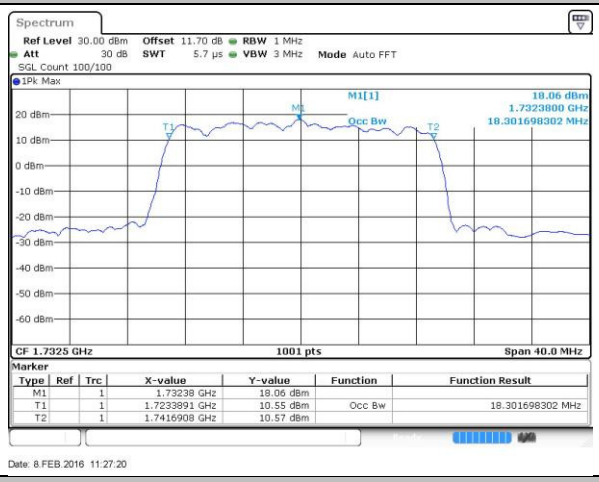
Lowest Channel / 20MHz / 16QAM



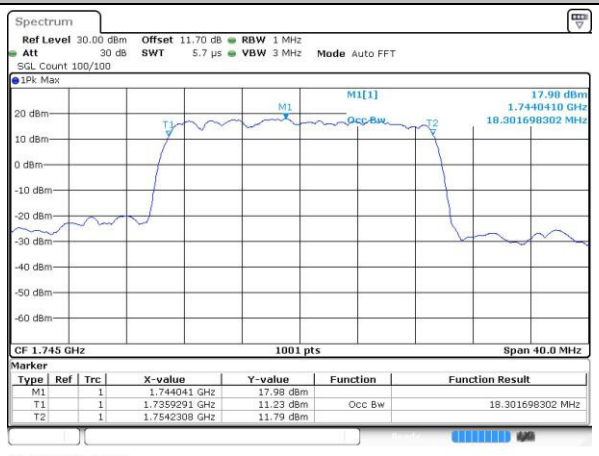
Middle Channel / 20MHz / QPSK



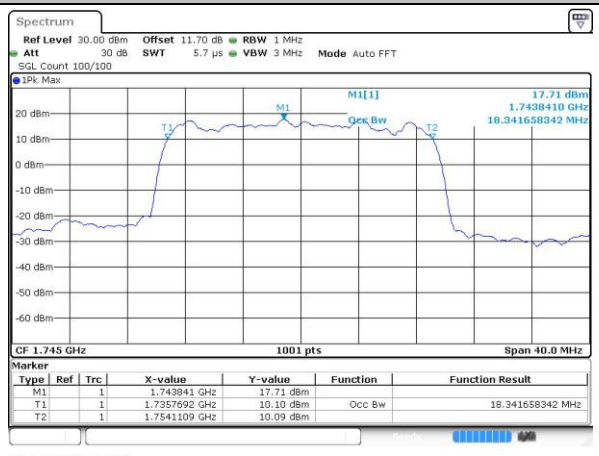
Middle Channel / 20MHz / 16QAM



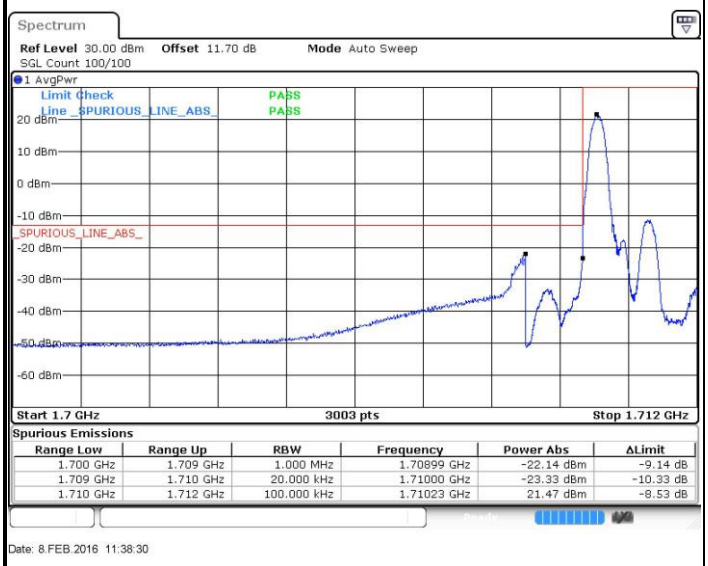
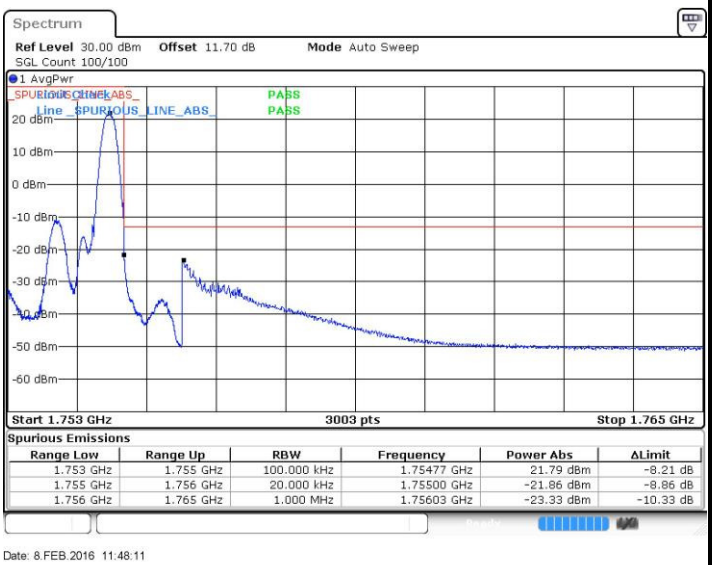
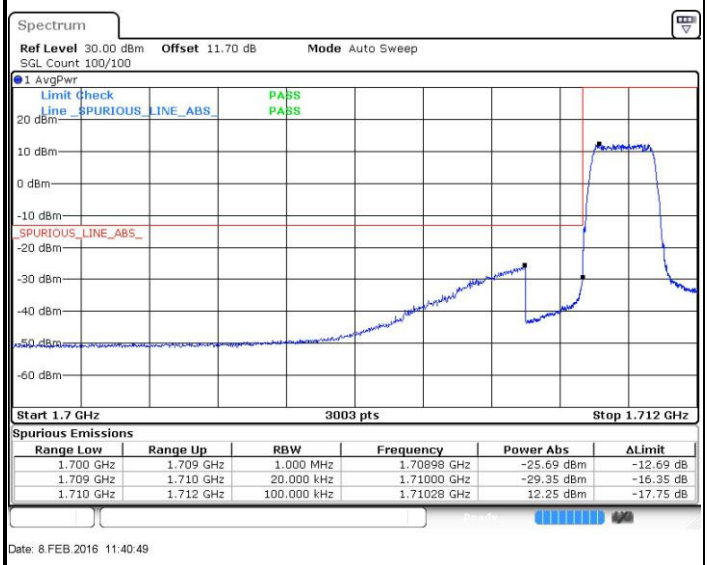
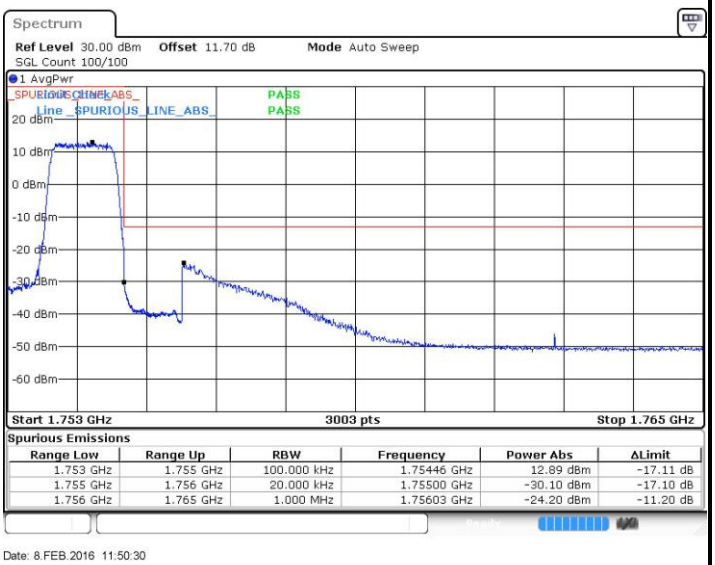
Highest Channel / 20MHz / QPSK

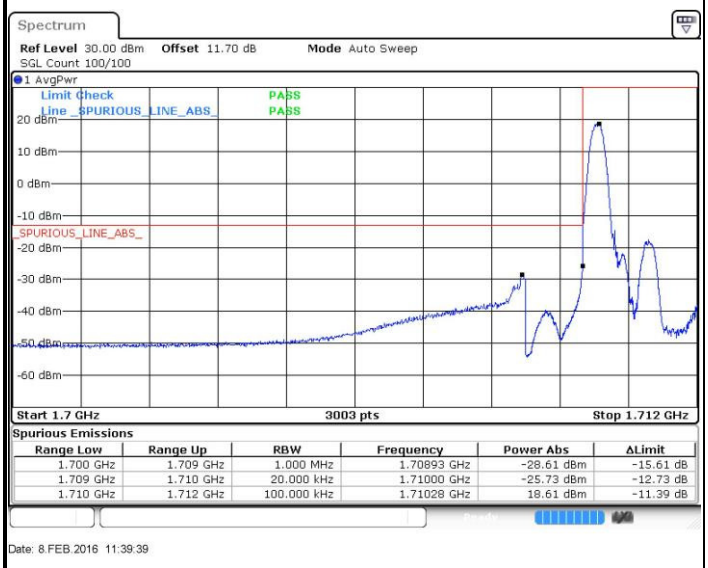
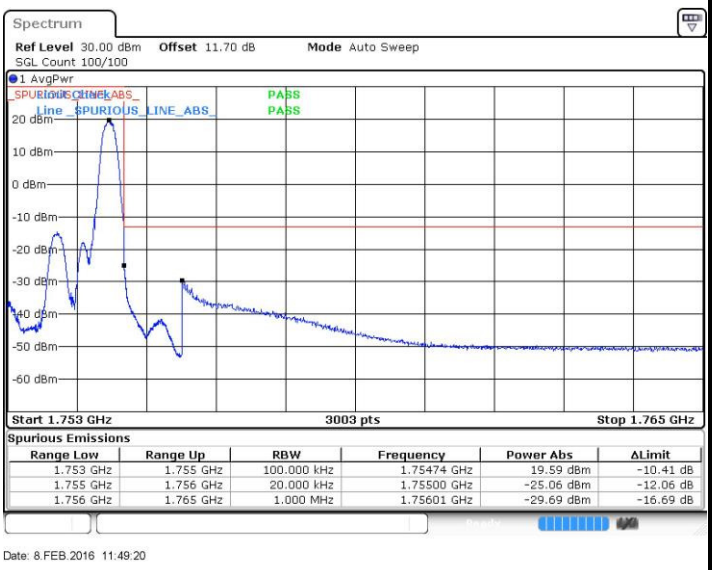
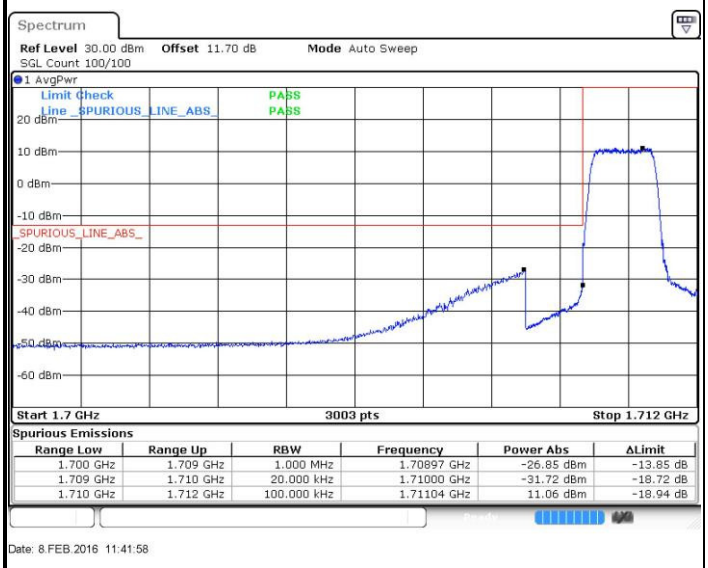
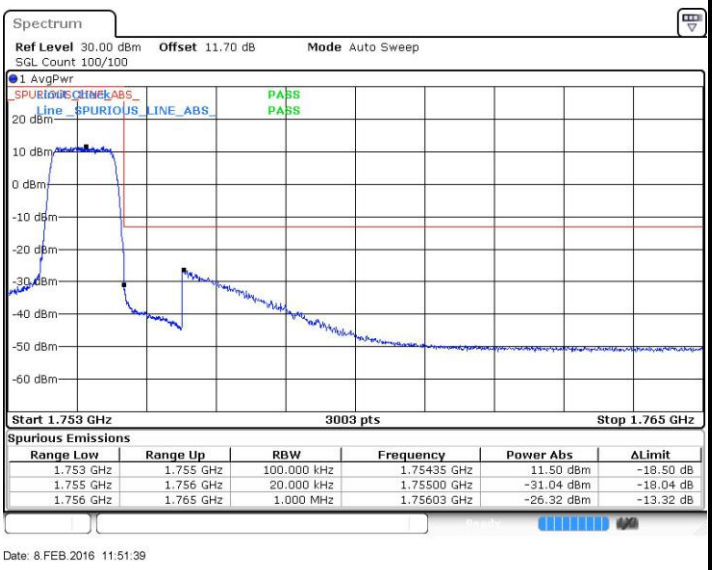


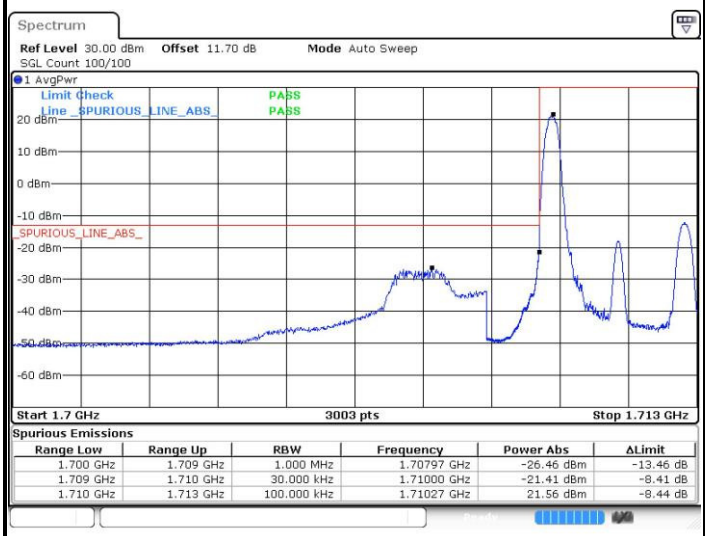
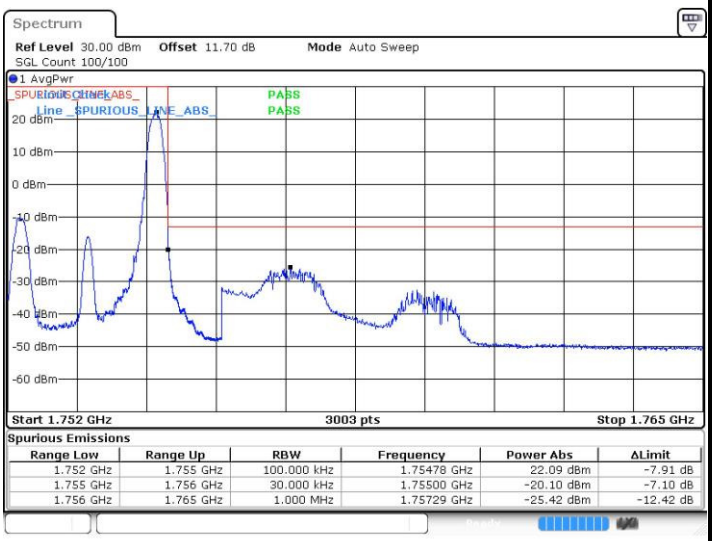
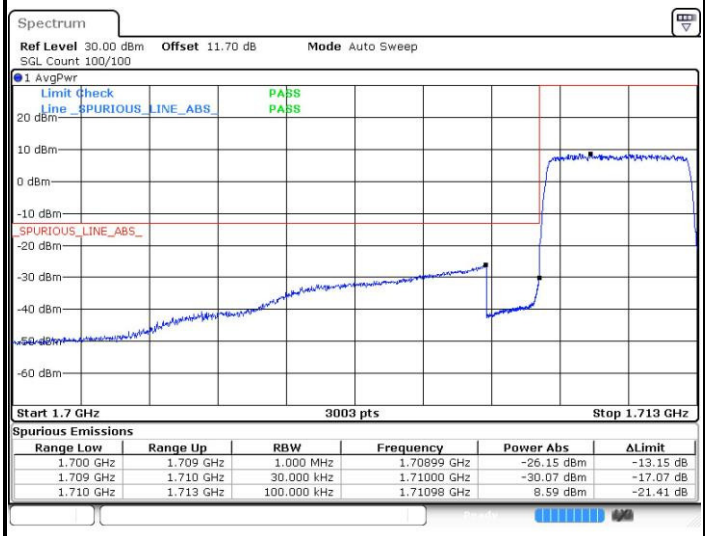
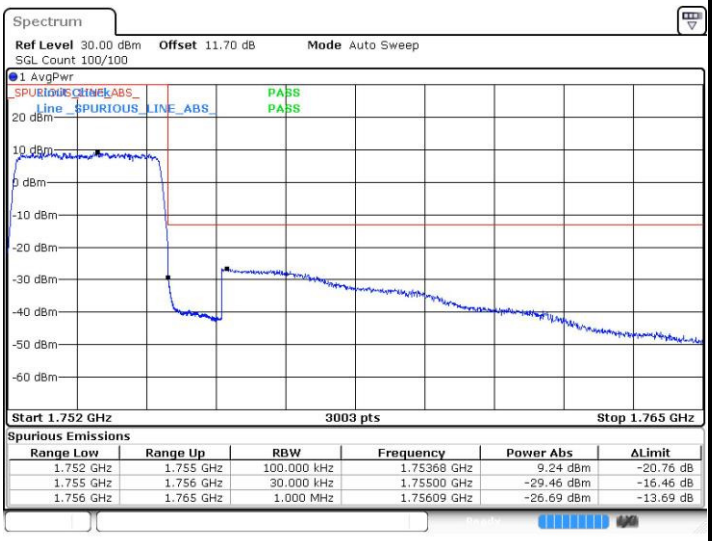
Highest Channel / 20MHz / 16QAM

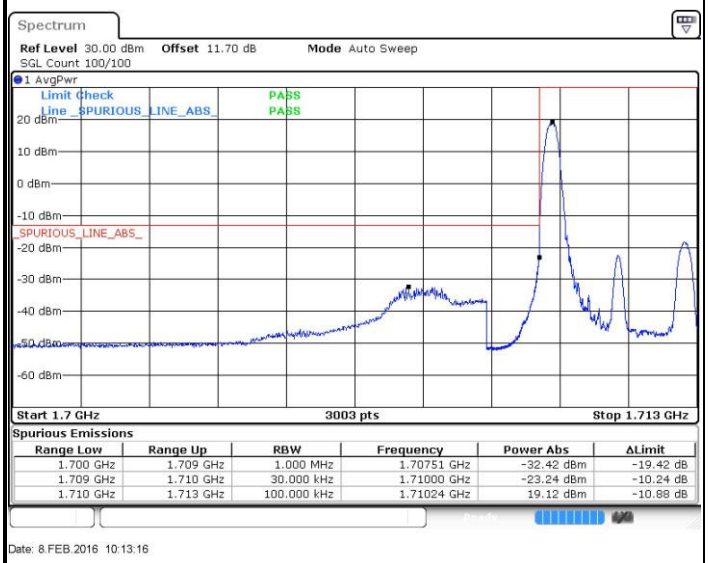
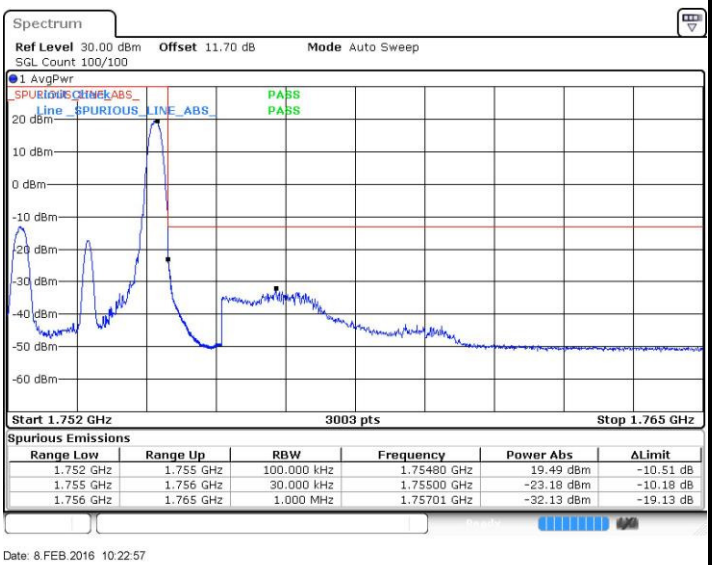
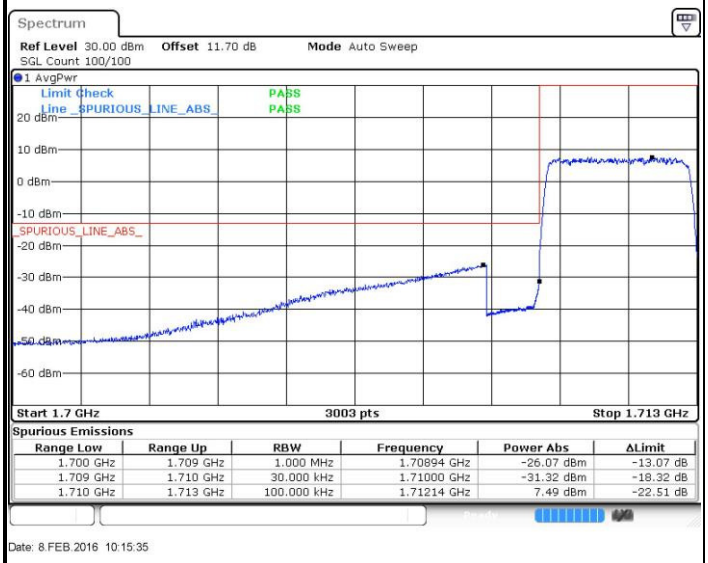
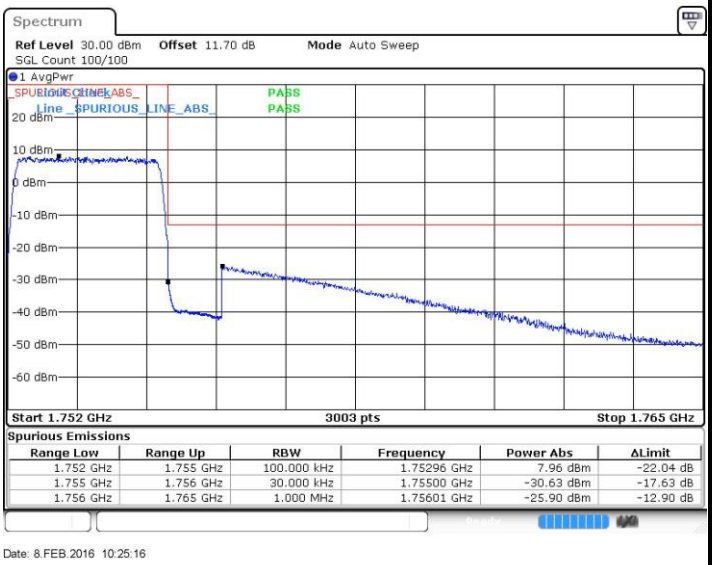


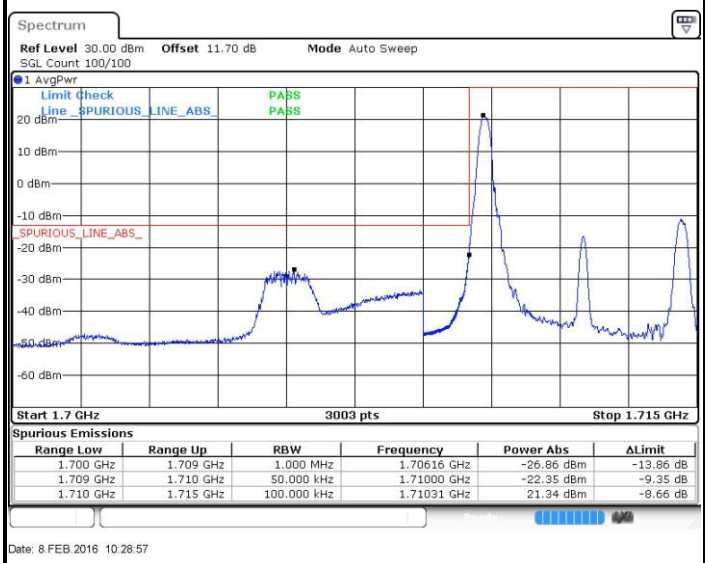
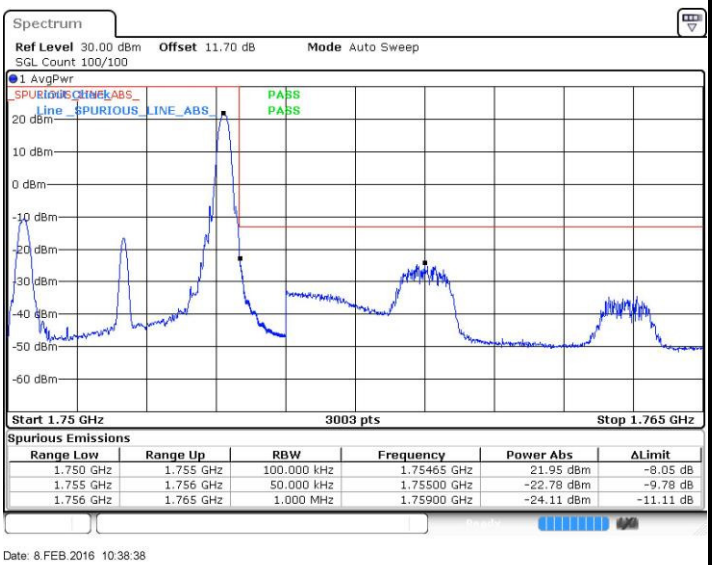
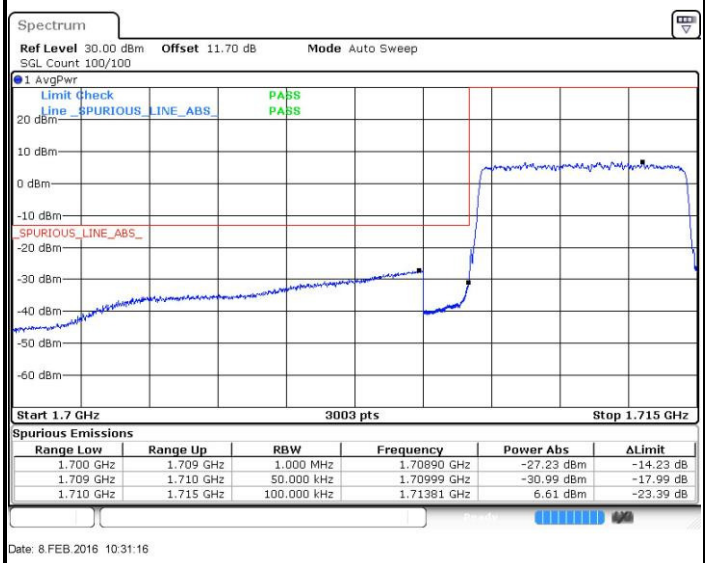
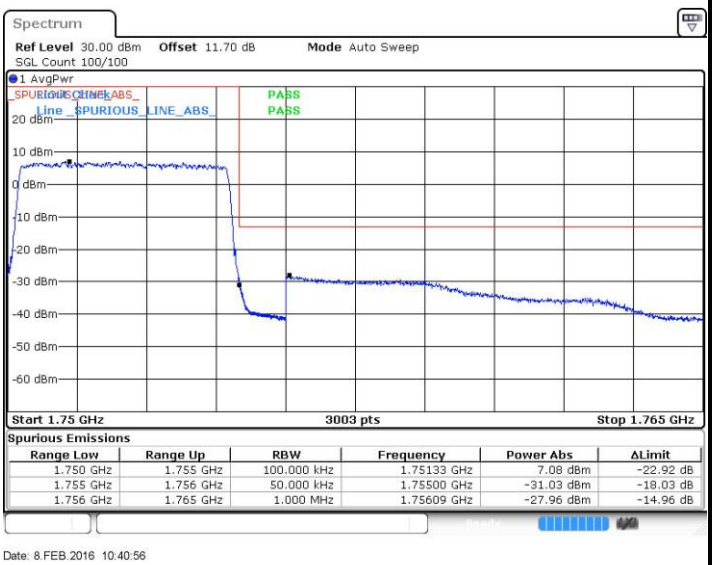
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK	
Lowest Band Edge / 1RB	**Highest Band Edge / 1RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 4 / 1.4MHz / 16QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

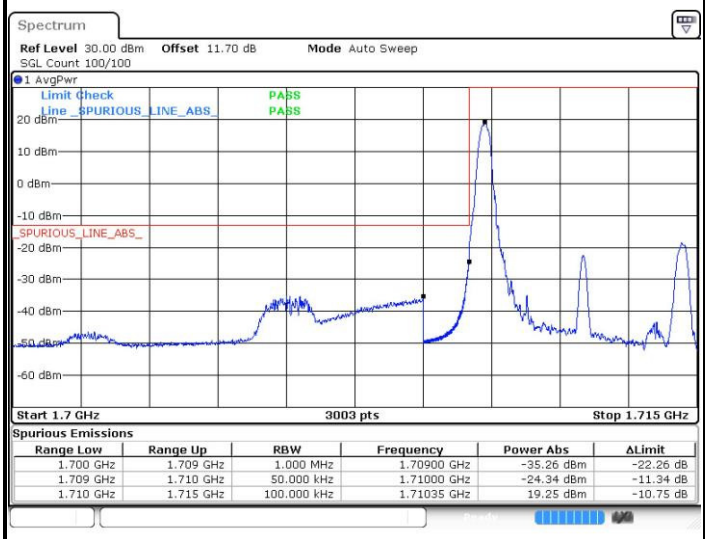
LTE Band 4 / 3MHz / QPSK	
Lowest Band Edge / 1RB	**Highest Band Edge / 1 RB**
 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 1.700 GHz | 1.709 GHz | 1.000 MHz | 1.70797 GHz | -26.46 dBm | -13.46 dB 1.709 GHz | 1.710 GHz | 30.000 kHz | 1.71000 GHz | -21.41 dBm | -8.41 dB 1.710 GHz | 1.713 GHz | 100.000 kHz | 1.71027 GHz | 21.56 dBm | -8.44 dB Date: 8.FEB.2016 10:12:07	 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 1.752 GHz | 1.755 GHz | 100.000 kHz | 1.75478 GHz | 22.09 dBm | -7.91 dB 1.755 GHz | 1.756 GHz | 30.000 kHz | 1.75500 GHz | -20.10 dBm | -7.10 dB 1.756 GHz | 1.765 GHz | 1.000 MHz | 1.75729 GHz | -25.42 dBm | -12.42 dB Date: 8.FEB.2016 10:21:48
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 1.700 GHz | 1.709 GHz | 1.000 MHz | 1.70899 GHz | -26.15 dBm | -13.15 dB 1.709 GHz | 1.710 GHz | 30.000 kHz | 1.71000 GHz | -30.07 dBm | -17.07 dB 1.710 GHz | 1.713 GHz | 100.000 kHz | 1.71098 GHz | 8.59 dBm | -21.41 dB Date: 8.FEB.2016 10:14:26	 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 1.752 GHz | 1.755 GHz | 100.000 kHz | 1.75368 GHz | 9.24 dBm | -20.76 dB 1.755 GHz | 1.756 GHz | 30.000 kHz | 1.75500 GHz | -29.46 dBm | -16.46 dB 1.756 GHz | 1.765 GHz | 1.000 MHz | 1.75609 GHz | -26.69 dBm | -13.69 dB Date: 8.FEB.2016 10:24:06

LTE Band 4 / 3MHz / 16QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge /1 RB**
 Date: 8.FEB.2016 10:13:16	 Date: 8.FEB.2016 10:22:57
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
 Date: 8.FEB.2016 10:15:35	 Date: 8.FEB.2016 10:25:16

LTE Band 4 / 5MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1RB

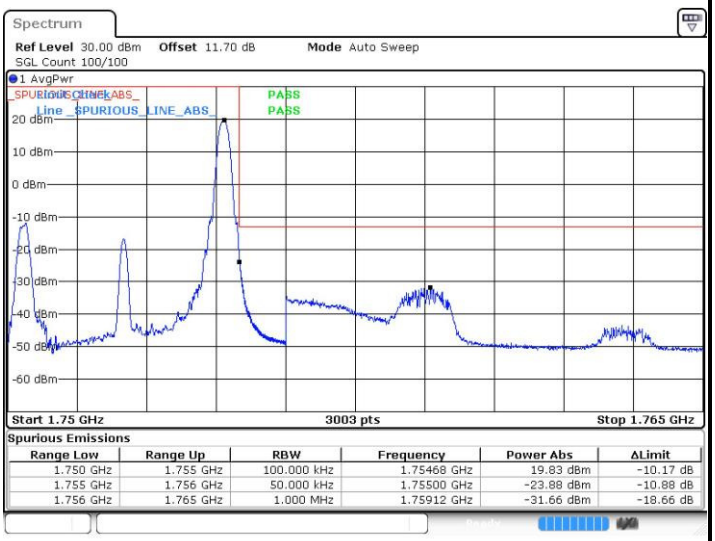


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70900 GHz	-35.26 dBm	-22.26 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	-24.34 dBm	-11.34 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71035 GHz	19.25 dBm	-10.75 dB

Date: 8.FEB.2016 10:30:06

Highest Band Edge / 1 RB

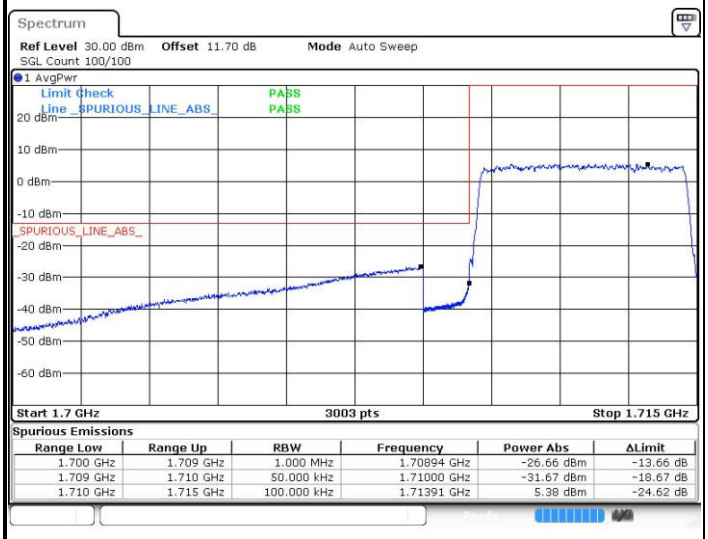


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75468 GHz	19.83 dBm	-10.17 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75500 GHz	-23.88 dBm	-10.88 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75912 GHz	-31.66 dBm	-18.66 dB

Date: 8.FEB.2016 10:39:47

Lowest Band Edge / Full RB

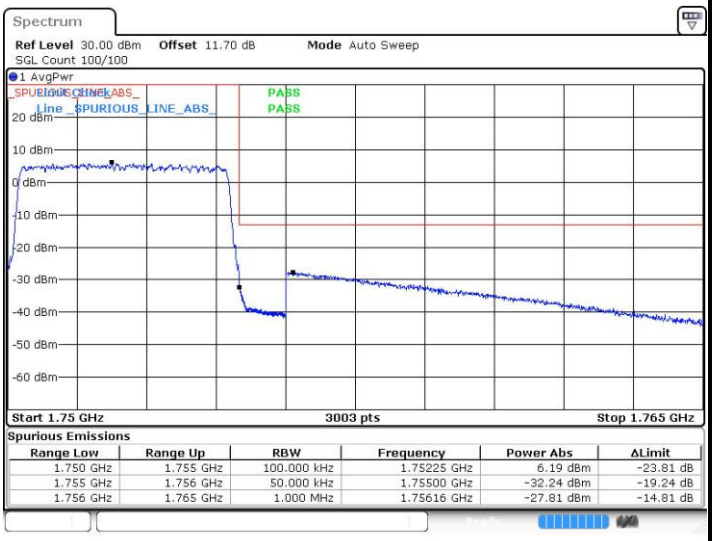


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70894 GHz	-26.66 dBm	-13.66 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	-31.67 dBm	-18.67 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71391 GHz	5.38 dBm	-24.62 dB

Date: 8.FEB.2016 10:32:25

Highest Band Edge / Full RB



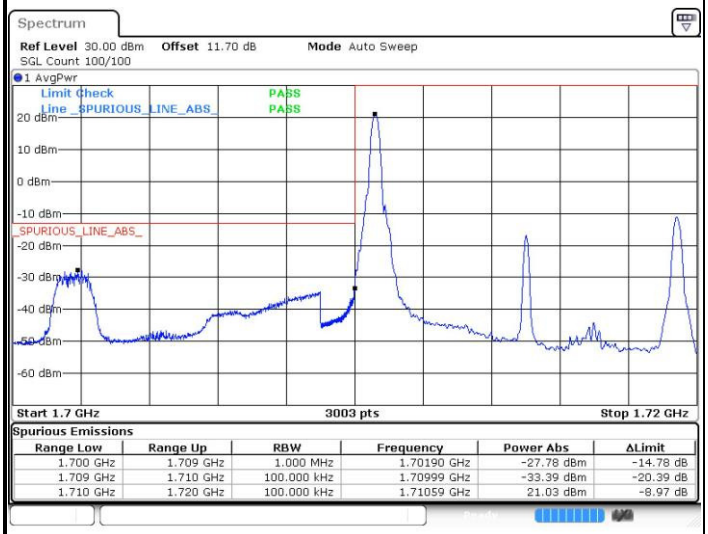
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75225 GHz	6.19 dBm	-23.81 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75500 GHz	-32.24 dBm	-19.24 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75616 GHz	-27.81 dBm	-14.81 dB

Date: 8.FEB.2016 10:42:06

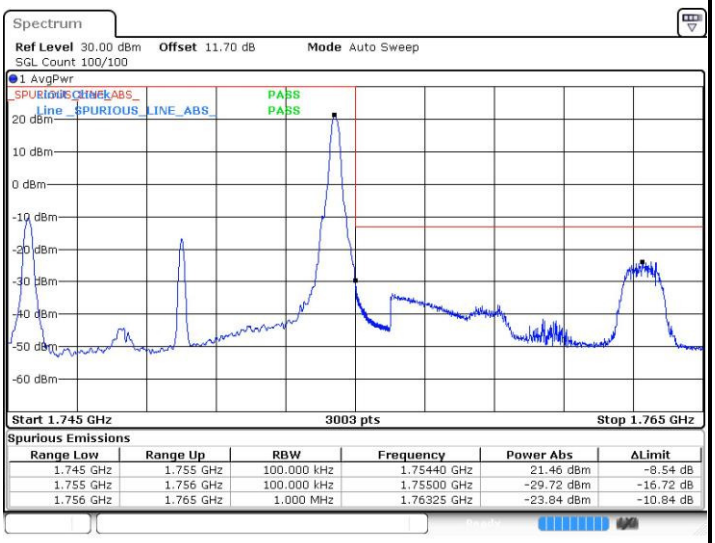
LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB



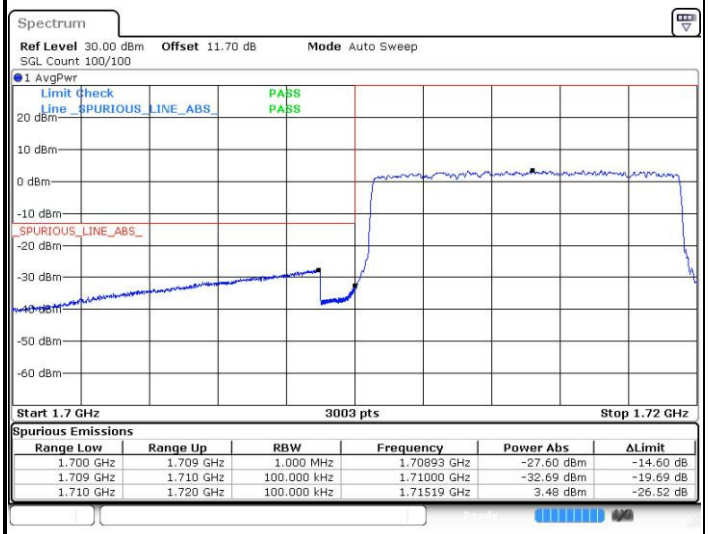
Date: 8.FEB.2016 10:45:47

Highest Band Edge / 1 RB



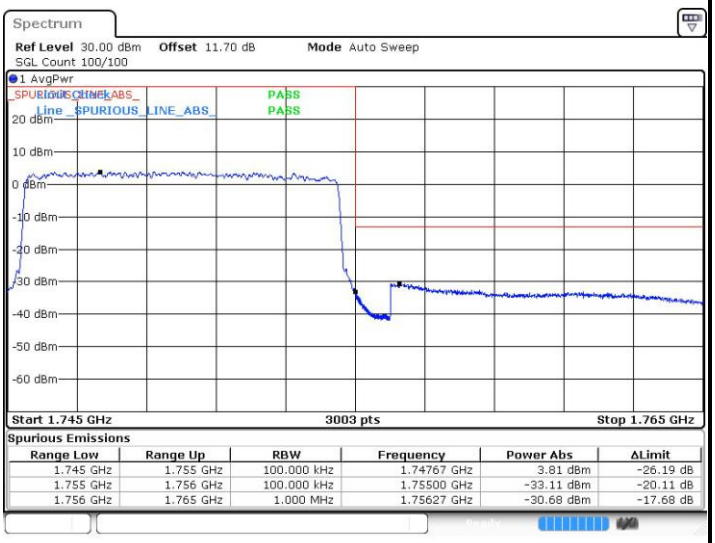
Date: 8.FEB.2016 10:55:27

Lowest Band Edge / Full RB



Date: 8.FEB.2016 10:48:05

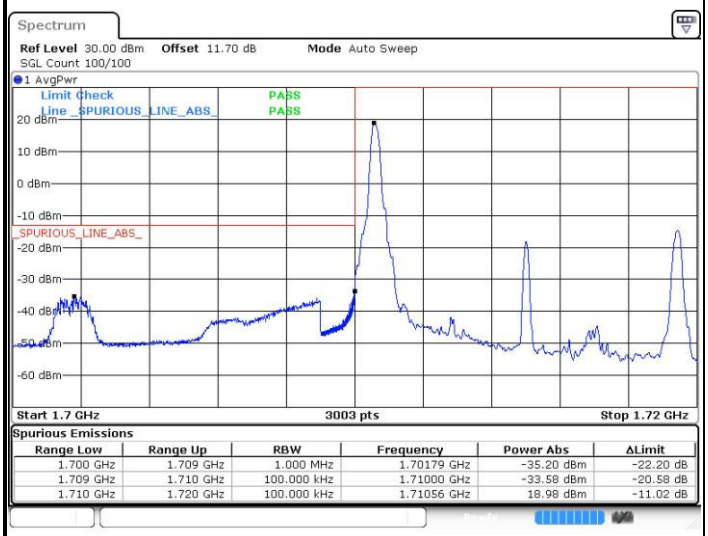
Highest Band Edge / Full RB



Date: 8.FEB.2016 10:57:46

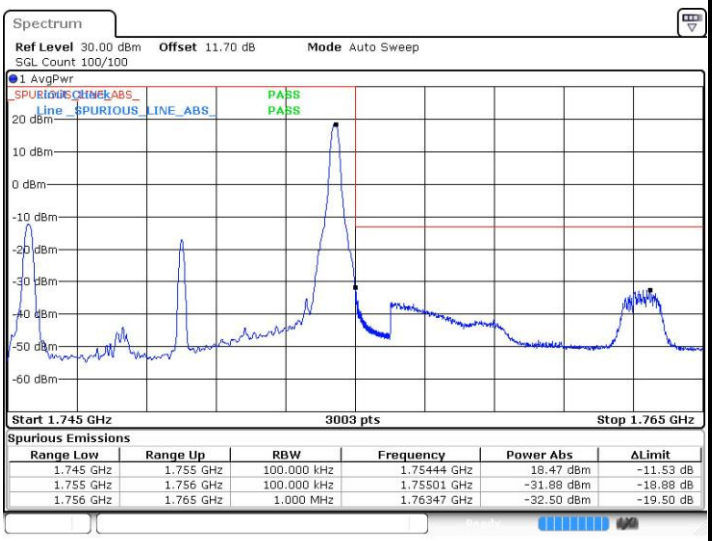
LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



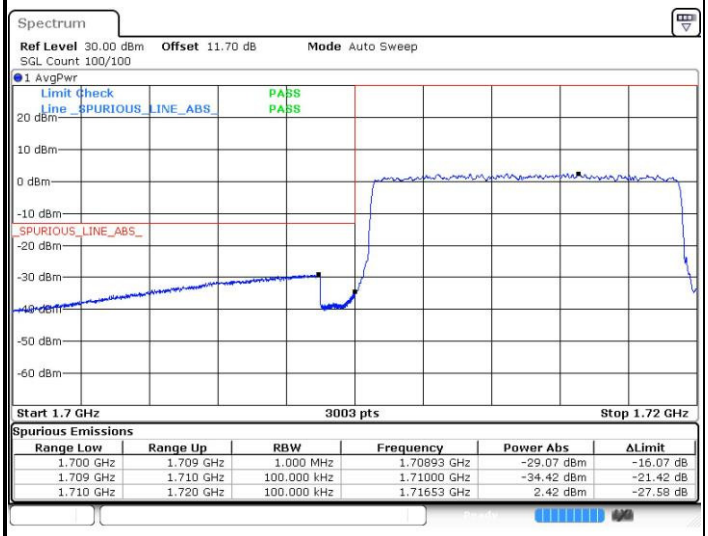
Date: 8.FEB.2016 10:46:56

Highest Band Edge / 1 RB



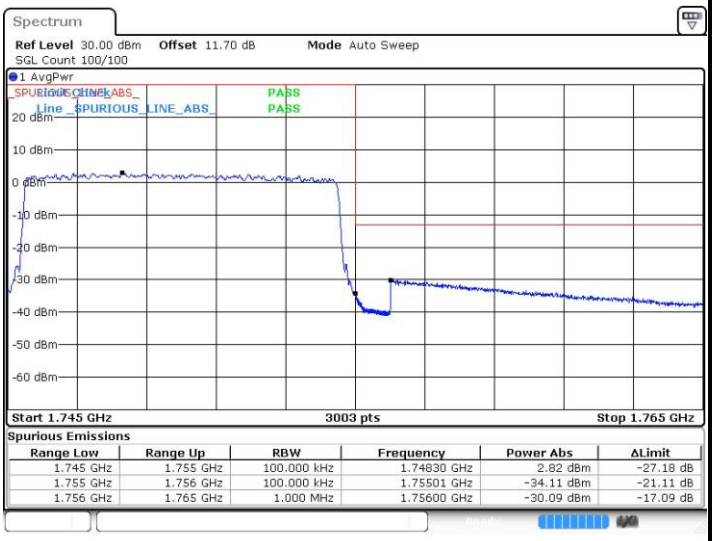
Date: 8.FEB.2016 10:56:37

Lowest Band Edge / Full RB



Date: 8.FEB.2016 10:49:14

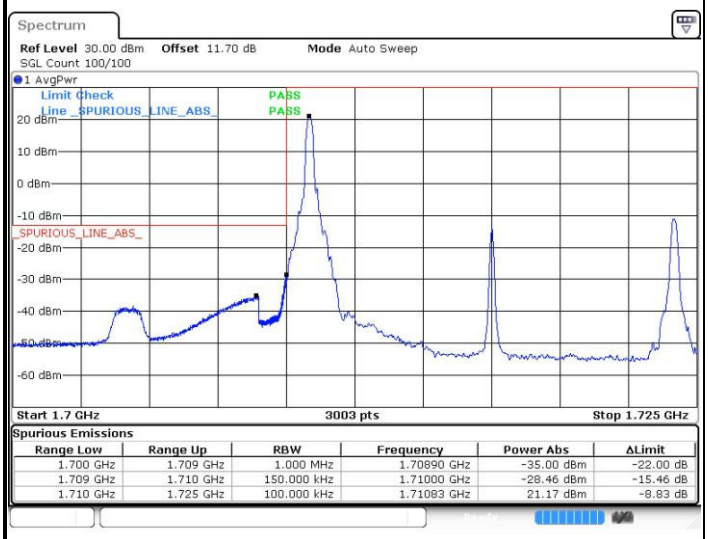
Highest Band Edge / Full RB



Date: 8.FEB.2016 10:58:55

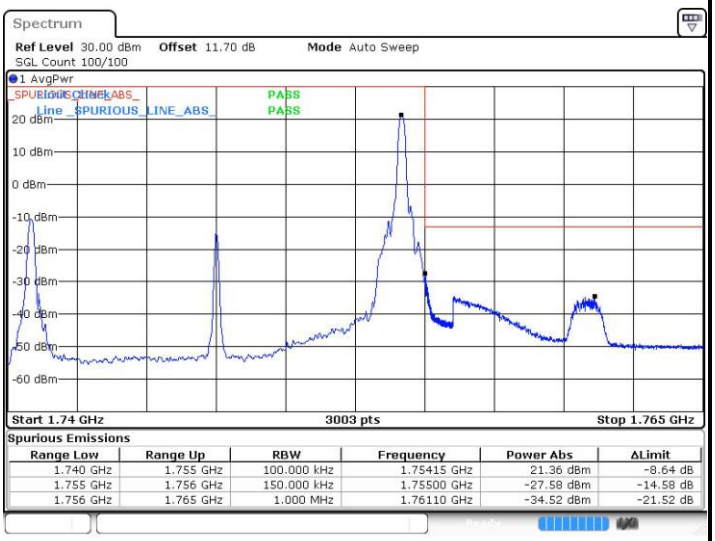
LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB



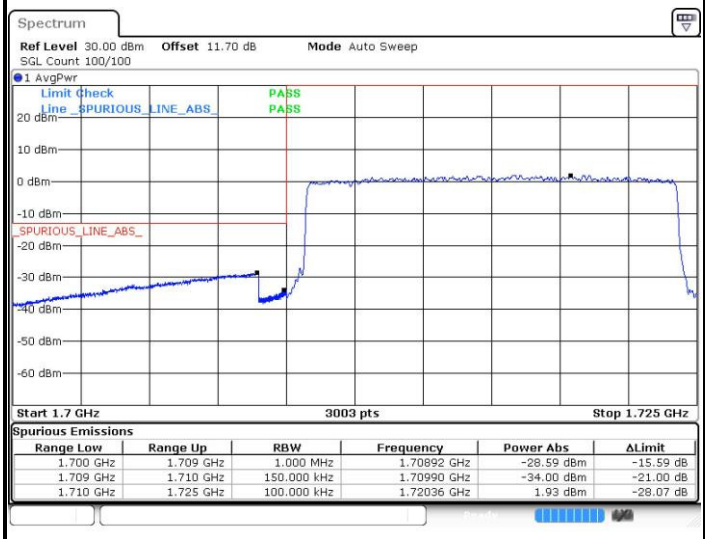
Date: 8.FEB.2016 11:04:52

Highest Band Edge / 1 RB



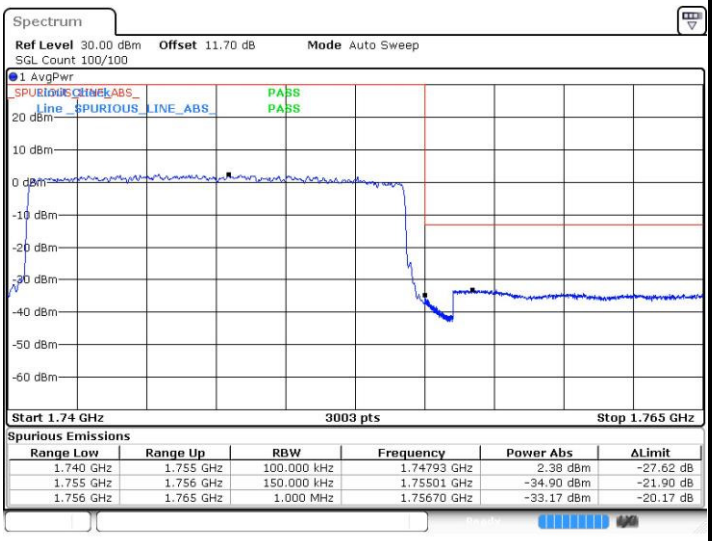
Date: 8.FEB.2016 11:14:33

Lowest Band Edge / Full RB



Date: 8.FEB.2016 11:07:11

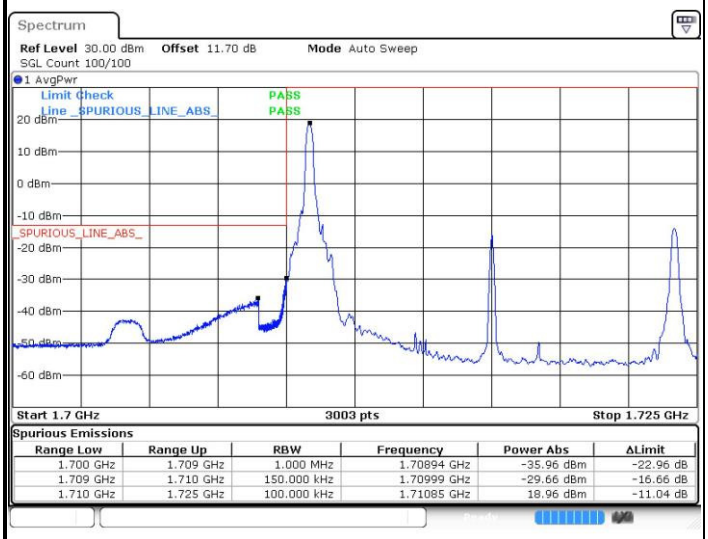
Highest Band Edge / Full RB



Date: 8.FEB.2016 11:16:51

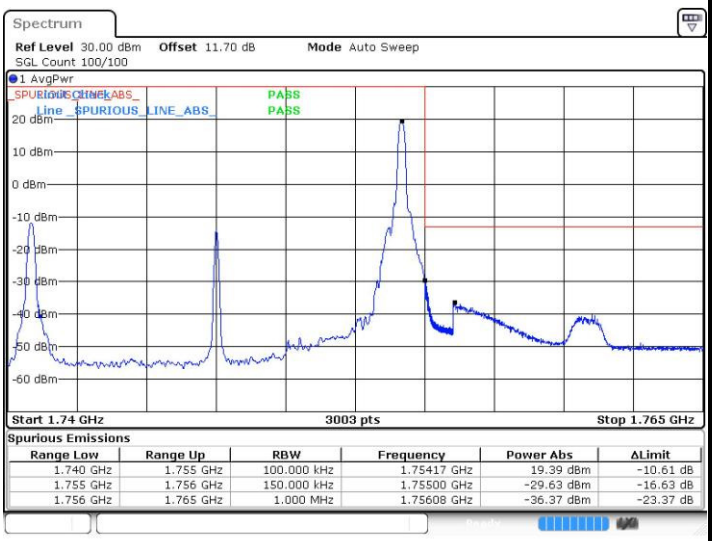
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



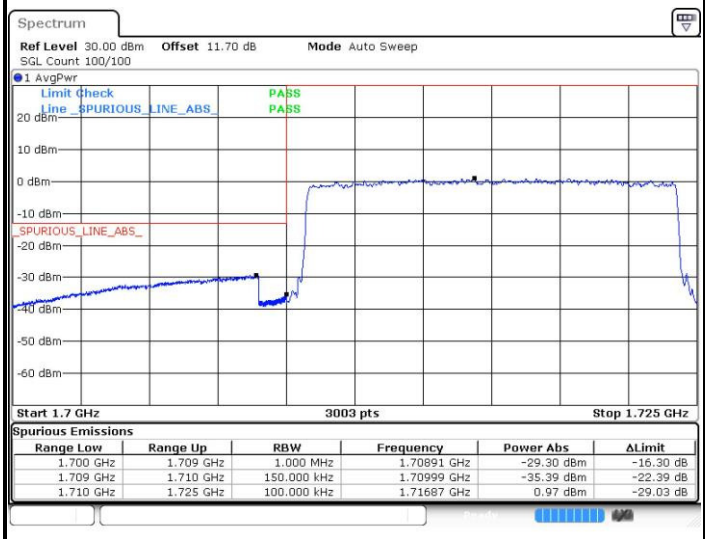
Date: 8.FEB.2016 11:06:02

Highest Band Edge / 1 RB



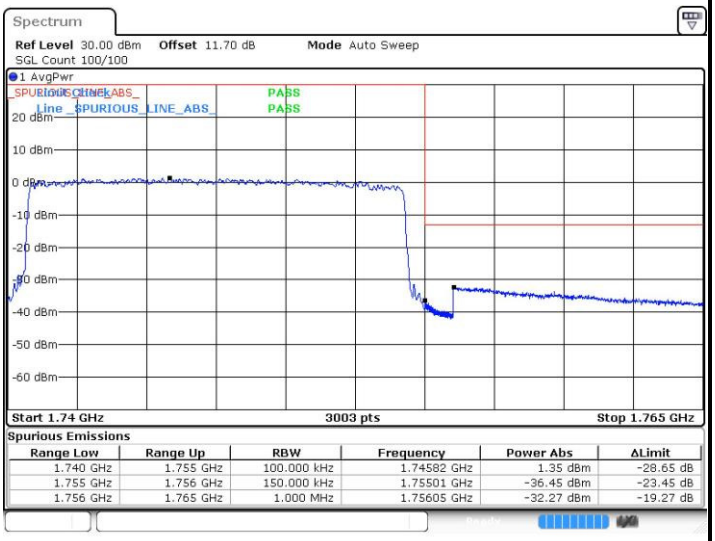
Date: 8.FEB.2016 11:15:42

Lowest Band Edge / Full RB



Date: 8.FEB.2016 11:08:20

Highest Band Edge / Full RB



Date: 8.FEB.2016 11:18:01