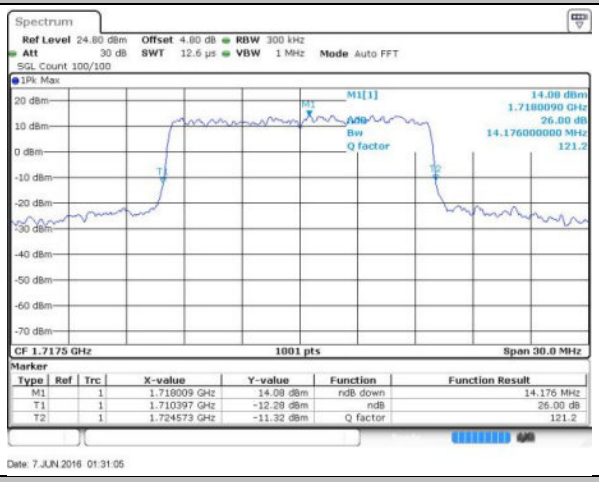
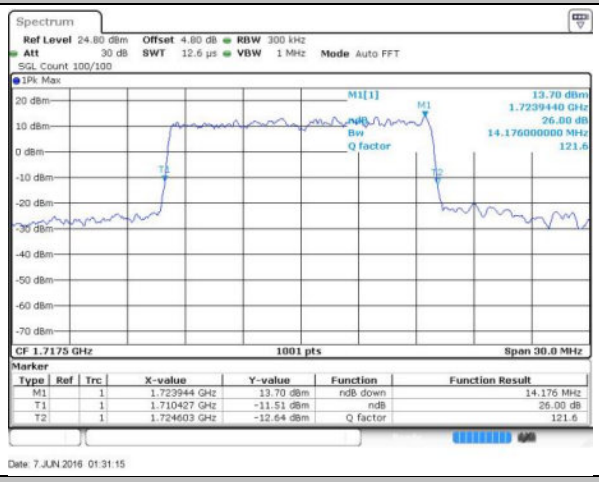
LTE Band 4

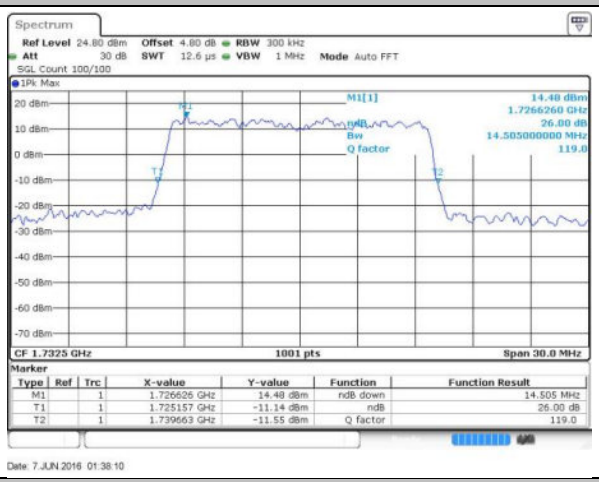
Lowest Channel / 15MHz / QPSK



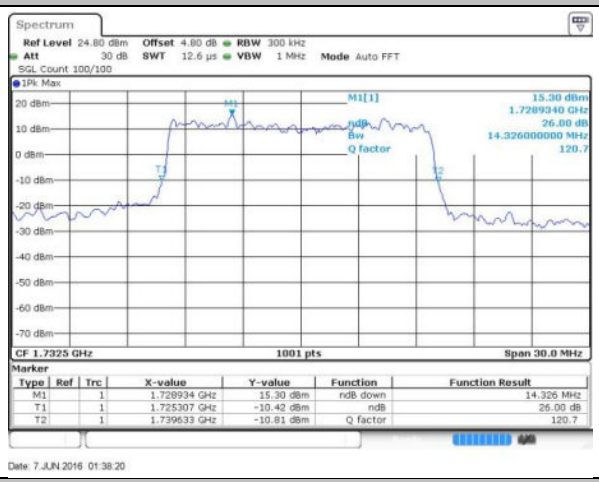
Lowest Channel / 15MHz / 16QAM



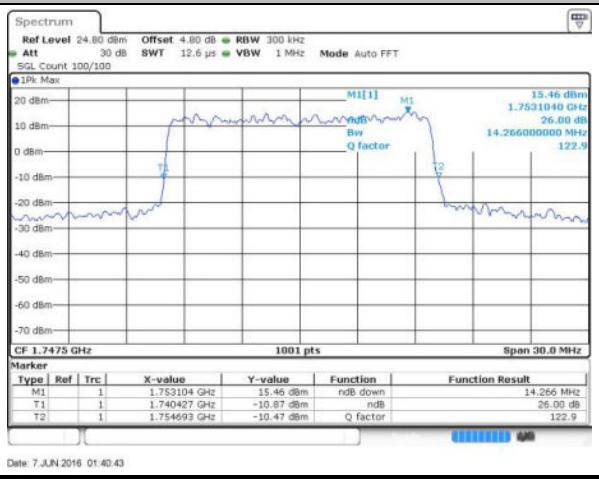
Middle Channel / 15MHz / QPSK



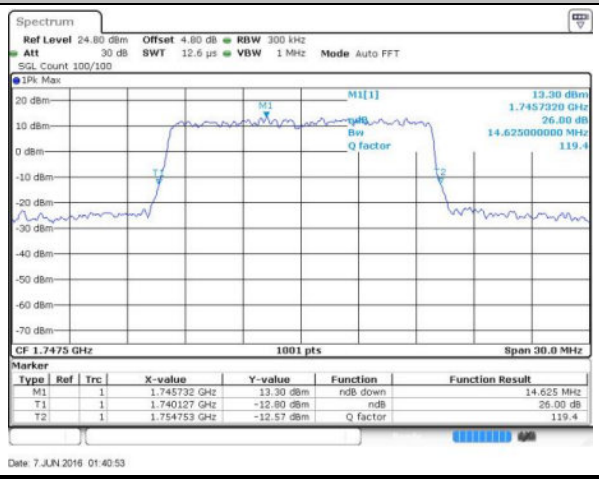
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

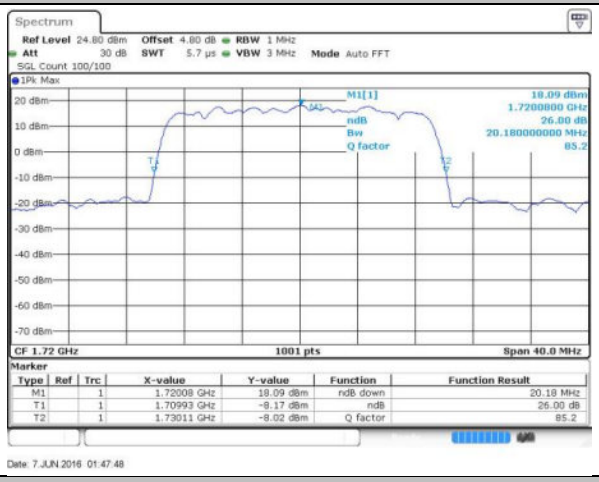


Highest Channel / 15MHz / 16QAM

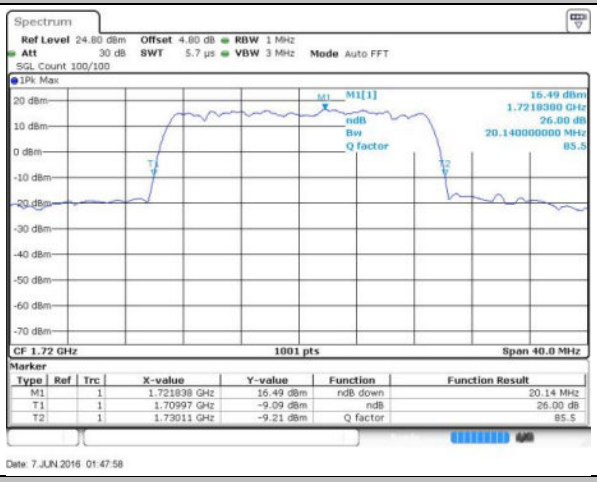


LTE Band 4

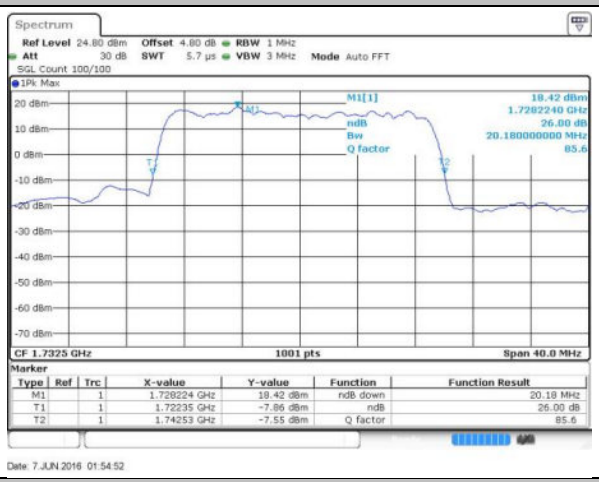
Lowest Channel / 20MHz / QPSK



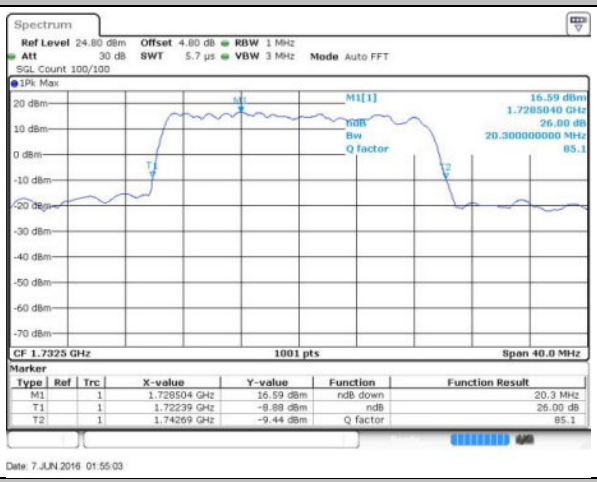
Lowest Channel / 20MHz / 16QAM



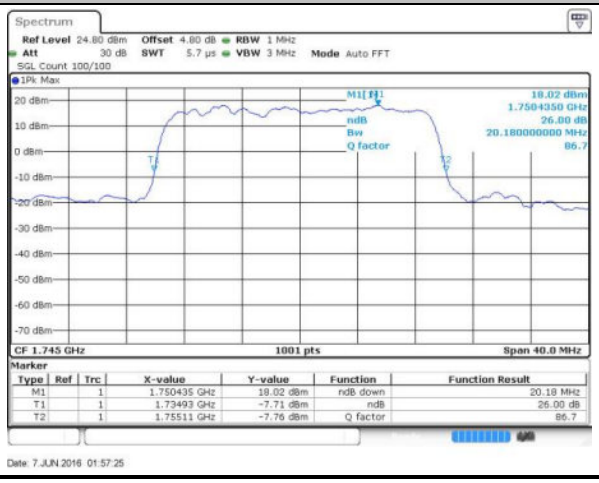
Middle Channel / 20MHz / QPSK



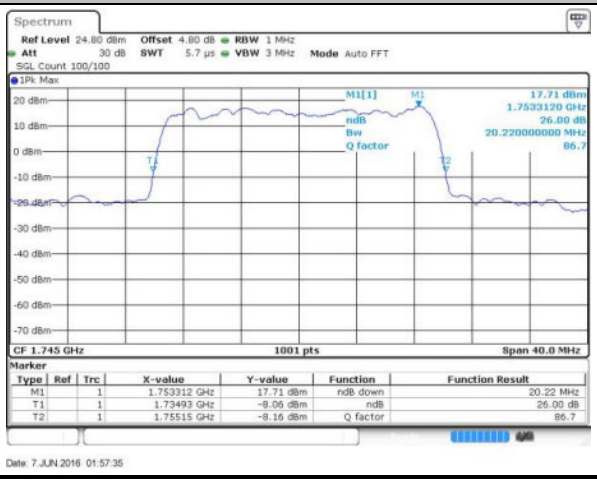
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

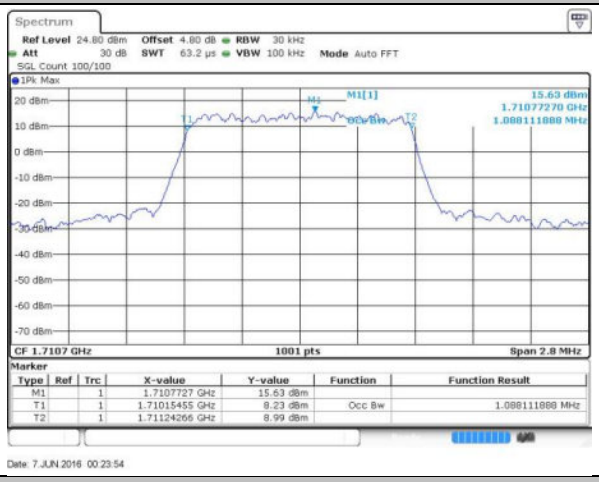
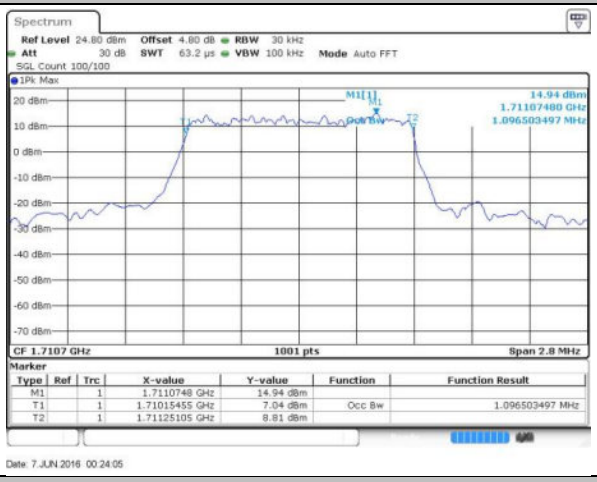
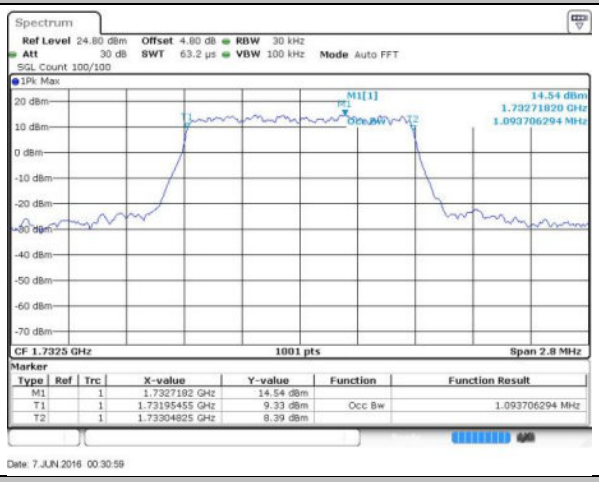
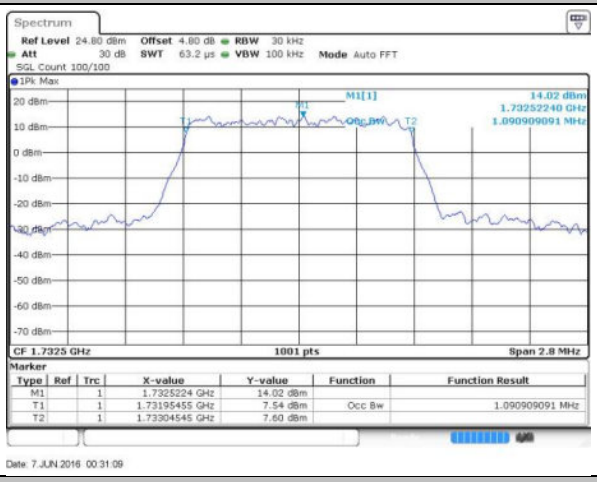
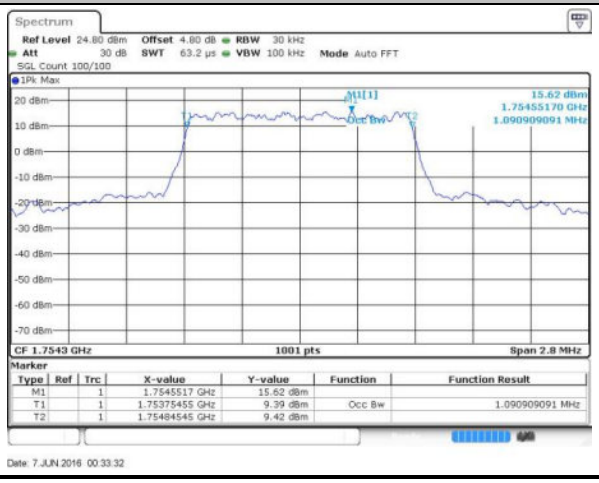
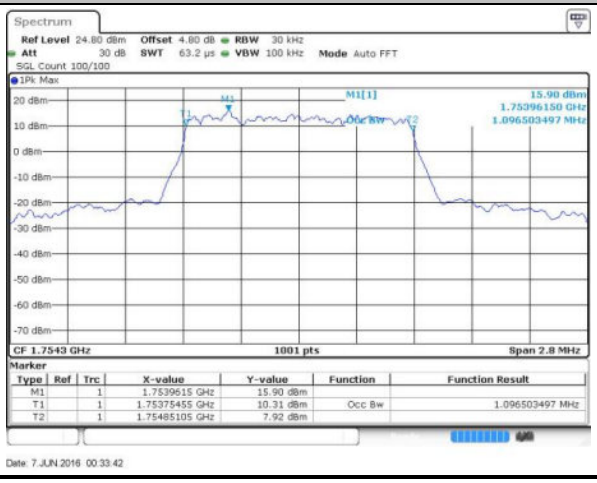


Highest Channel / 20MHz / 16QAM



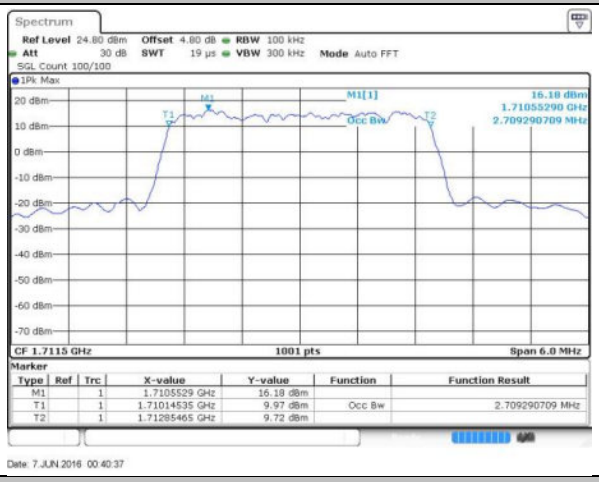
Occupied Bandwidth

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	1.10	2.71	2.71	4.50	4.50	9.03	9.01	13.43	13.46	18.18	18.22
Middle CH	1.09	1.09	2.71	2.71	4.49	4.51	9.03	9.03	13.49	13.43	18.46	18.50
Highest CH	1.09	1.10	2.72	2.73	4.49	4.50	9.05	9.05	13.55	13.52	18.42	18.26

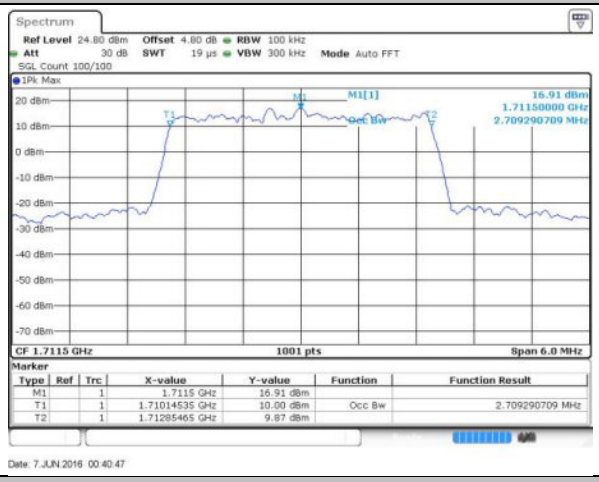
LTE Band 4	
Lowest Channel / 1.4MHz / QPSK	**Lowest Channel / 1.4MHz / 16QAM**
	
Middle Channel / 1.4MHz / QPSK	**Middle Channel / 1.4MHz / 16QAM**
	
Highest Channel / 1.4MHz / QPSK	**Highest Channel / 1.4MHz / 16QAM**
	

LTE Band 4

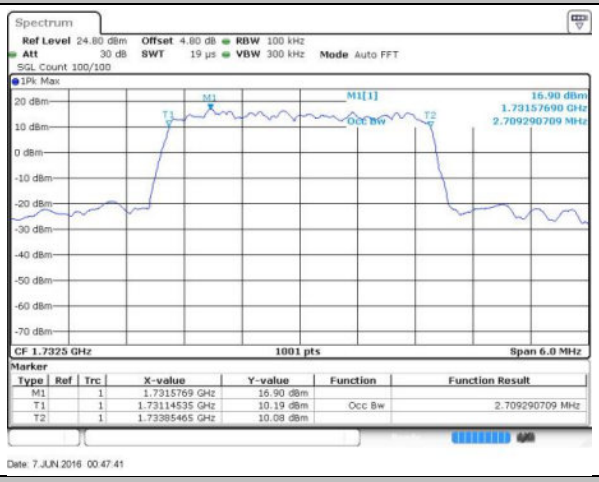
Lowest Channel / 3MHz / QPSK



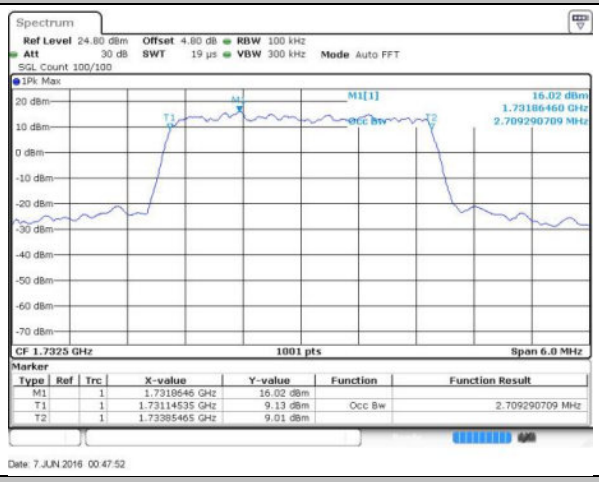
Lowest Channel / 3MHz / 16QAM



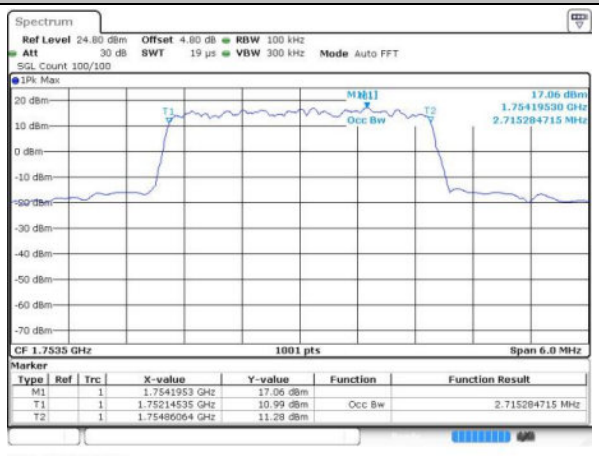
Middle Channel / 3MHz / QPSK



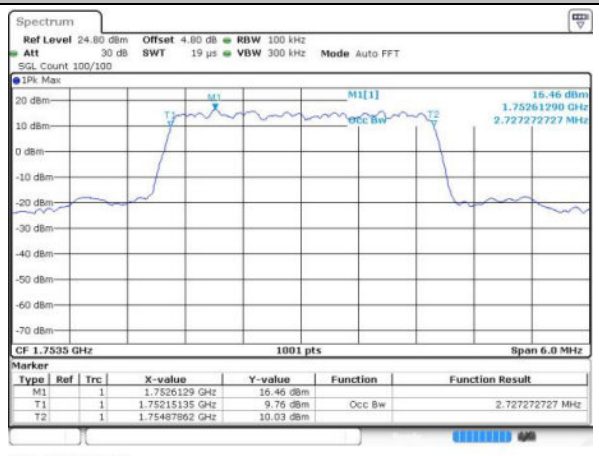
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

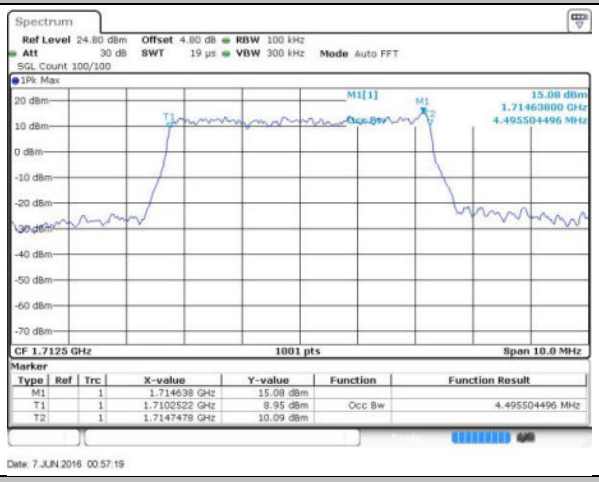


Highest Channel / 3MHz / 16QAM

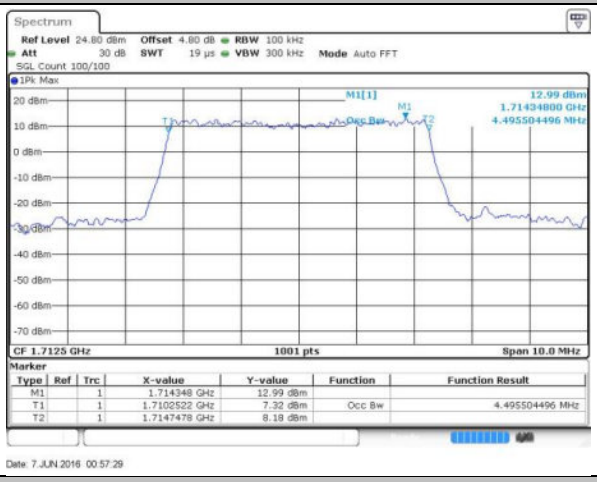


LTE Band 4

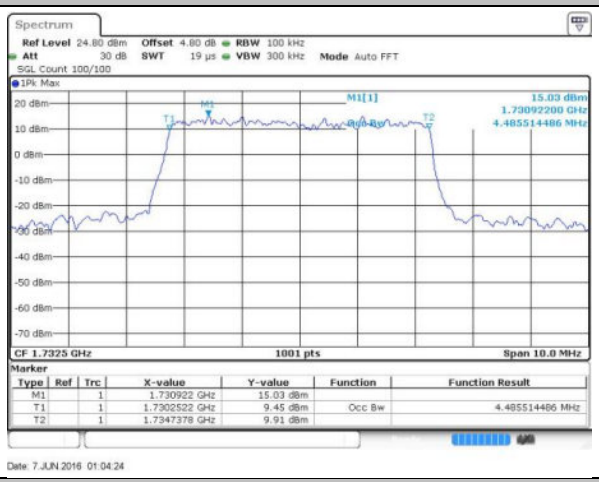
Lowest Channel / 5MHz / QPSK



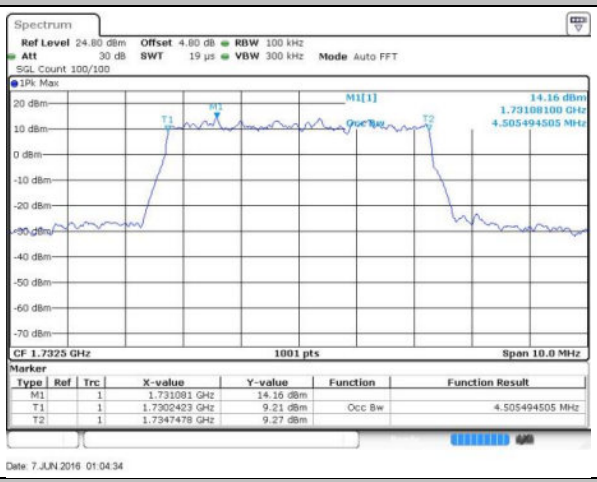
Lowest Channel / 5MHz / 16QAM



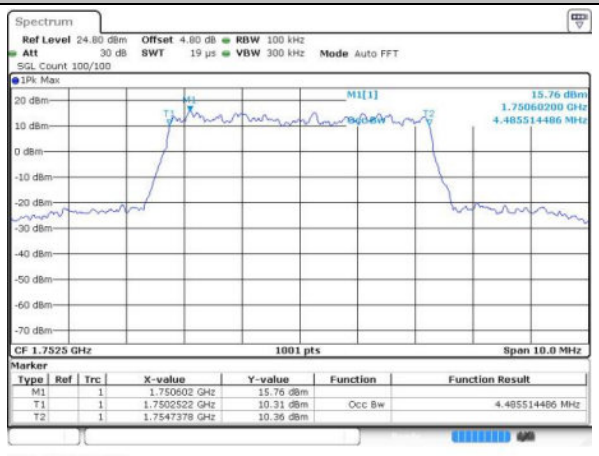
Middle Channel / 5MHz / QPSK



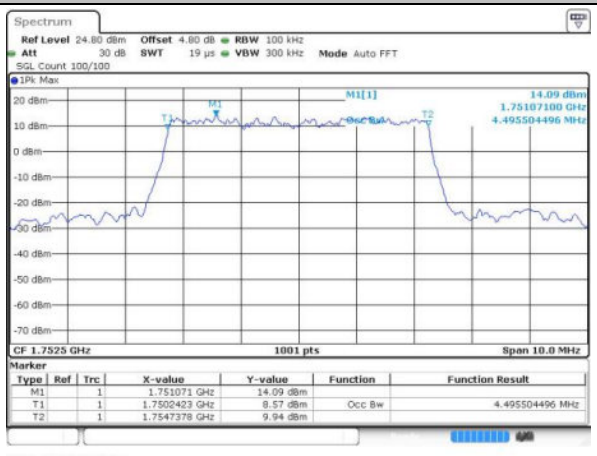
Middle Channel / 5MHz / 16QAM

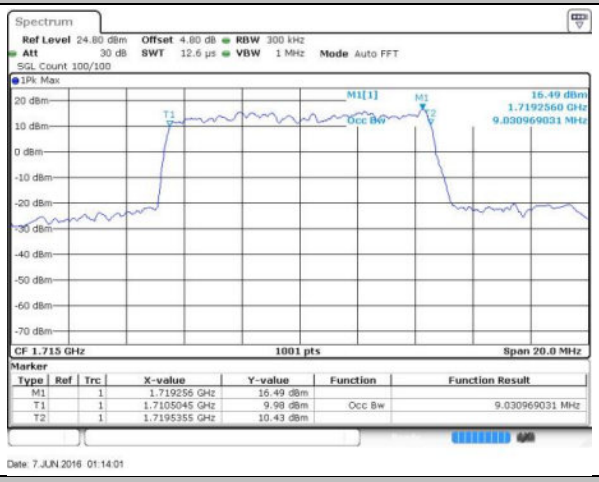
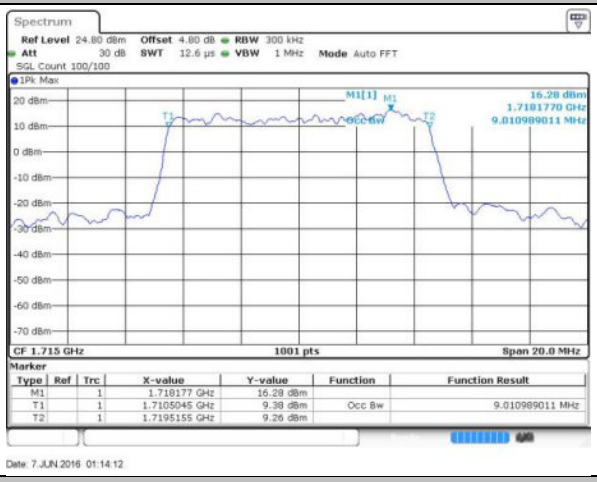
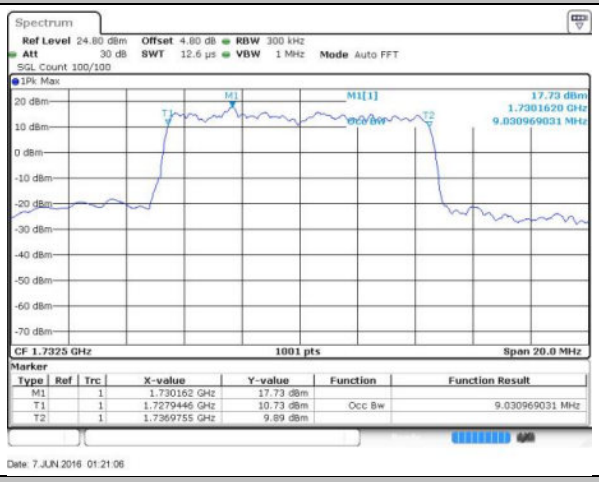
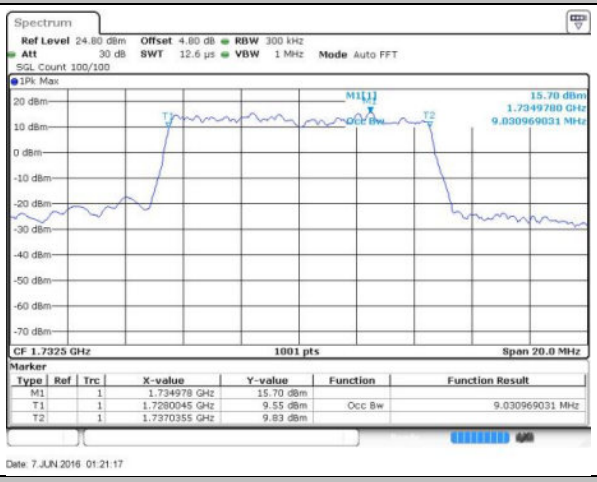
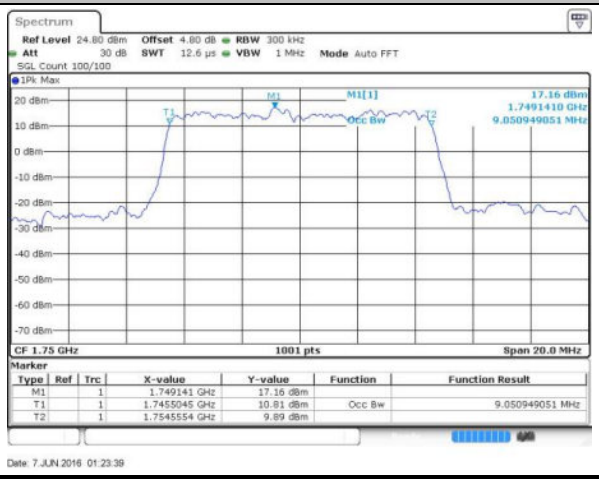
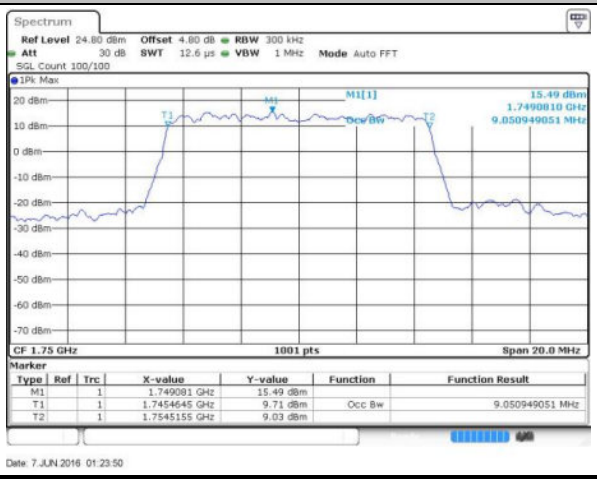


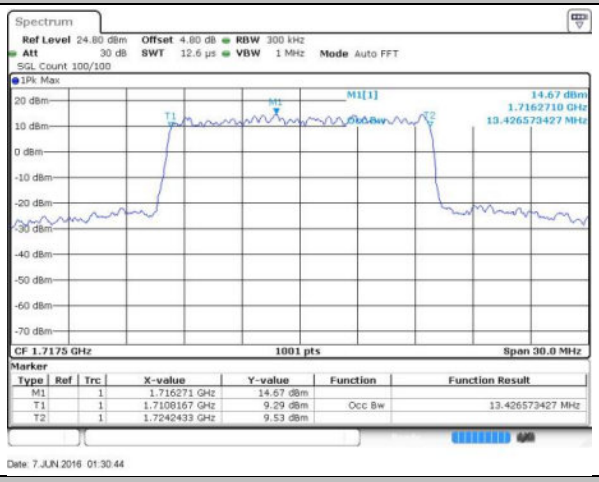
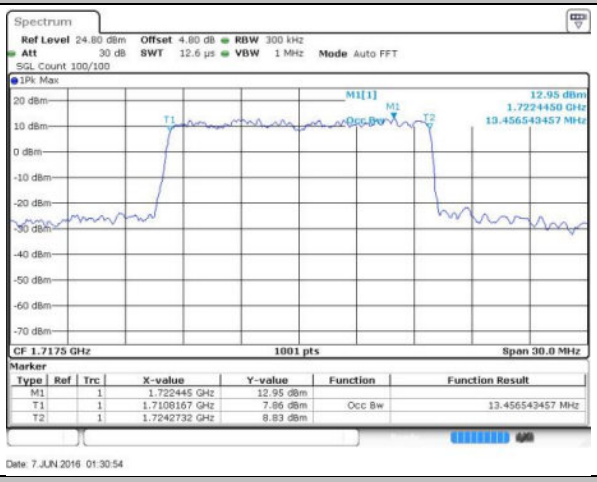
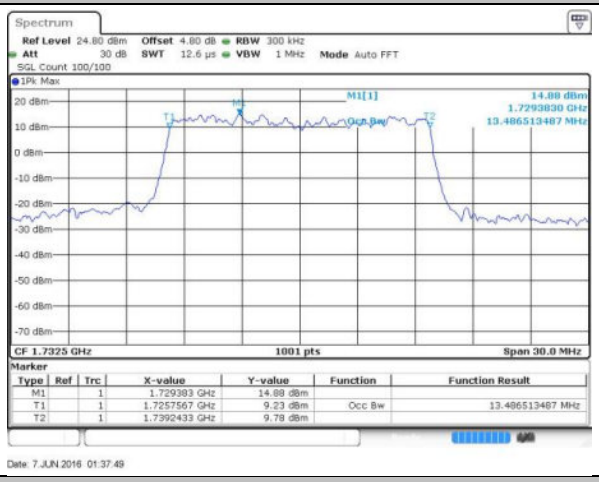
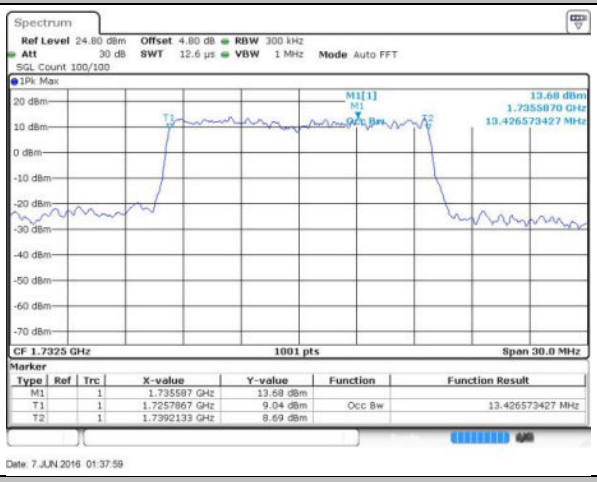
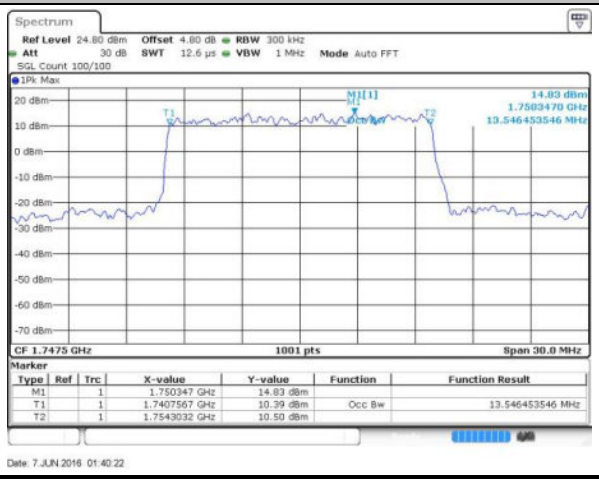
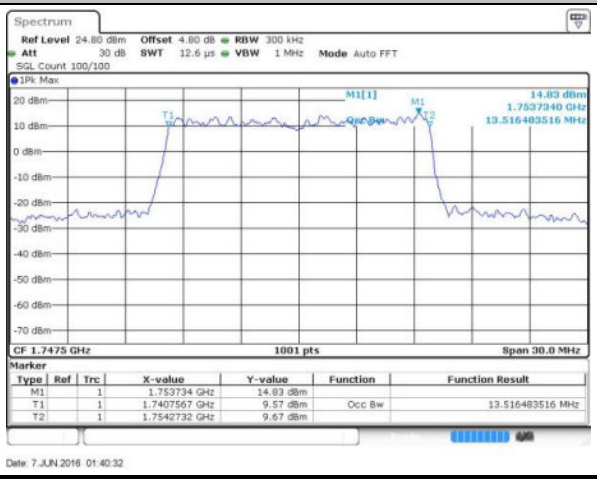
Highest Channel / 5MHz / QPSK

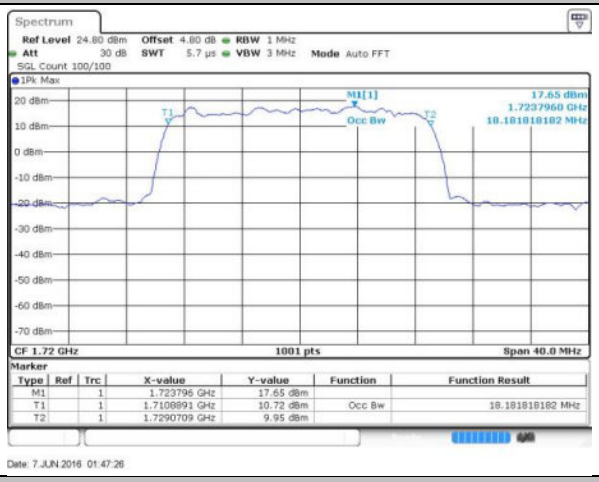
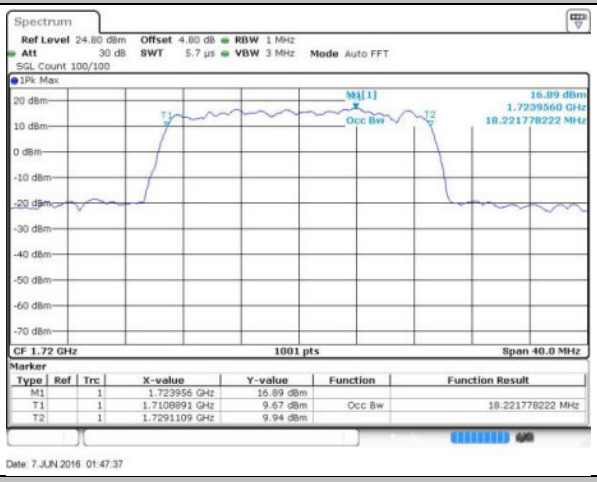
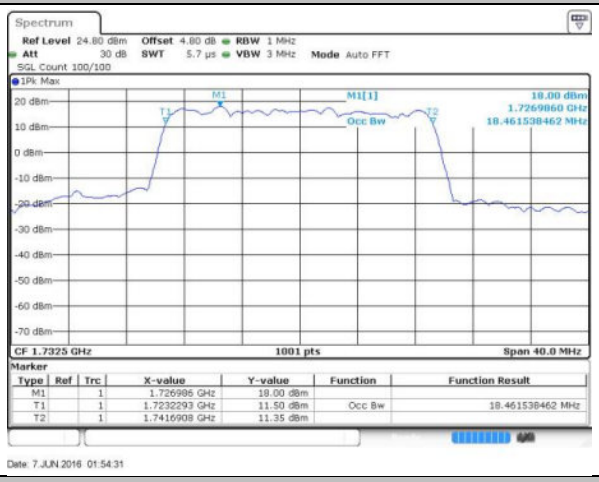
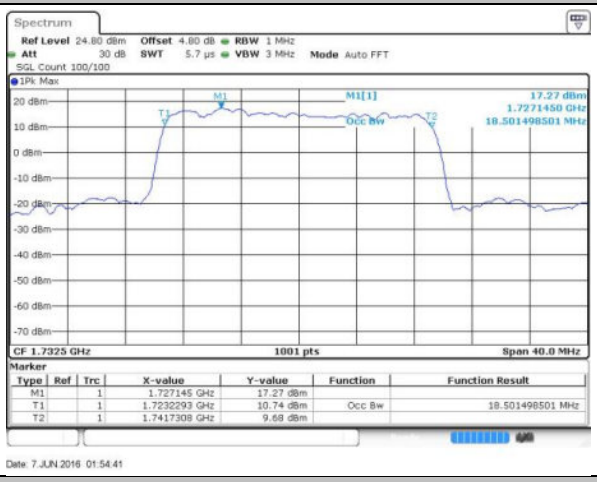
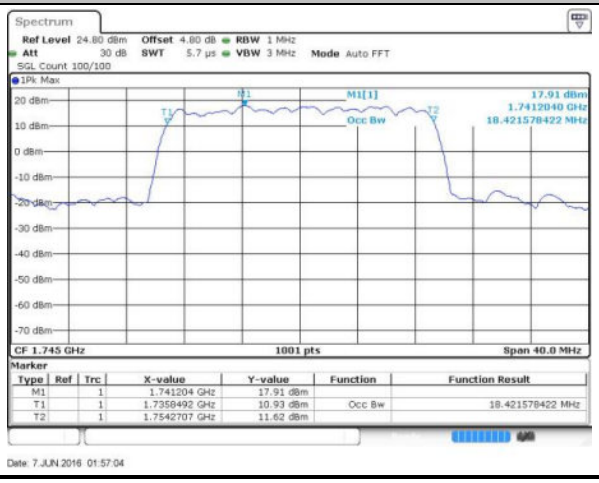
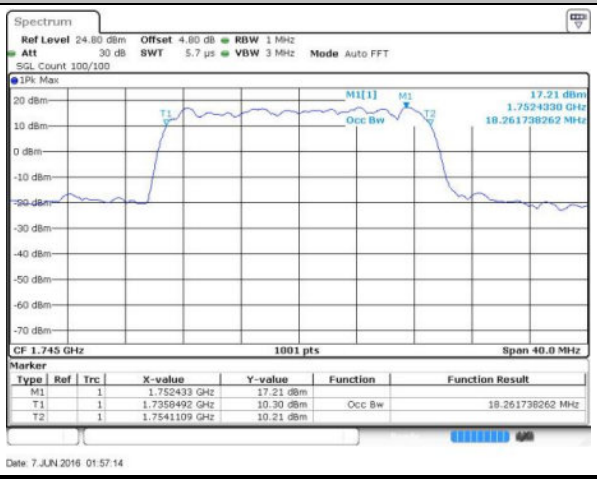


Highest Channel / 5MHz / 16QAM



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**
	

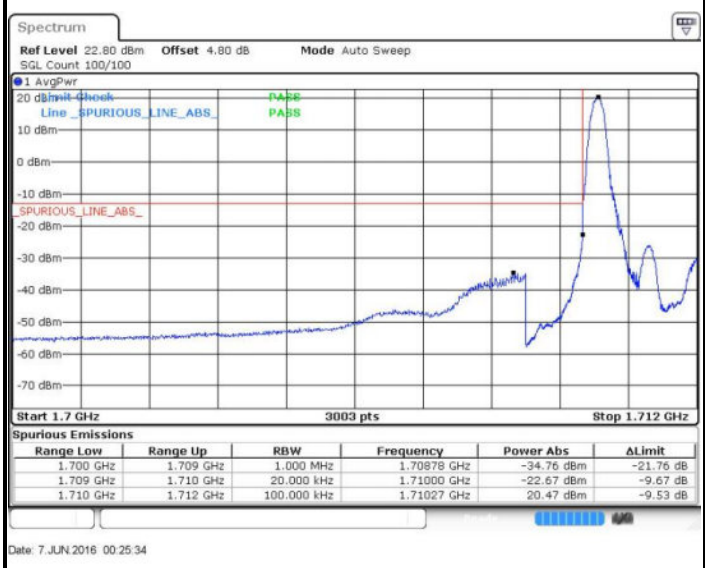
LTE Band 4	
Lowest Channel / 15MHz / QPSK	**Lowest Channel / 15MHz / 16QAM**
	
Middle Channel / 15MHz / QPSK	**Middle Channel / 15MHz / 16QAM**
	
Highest Channel / 15MHz / QPSK	**Highest Channel / 15MHz / 16QAM**
	

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**
	

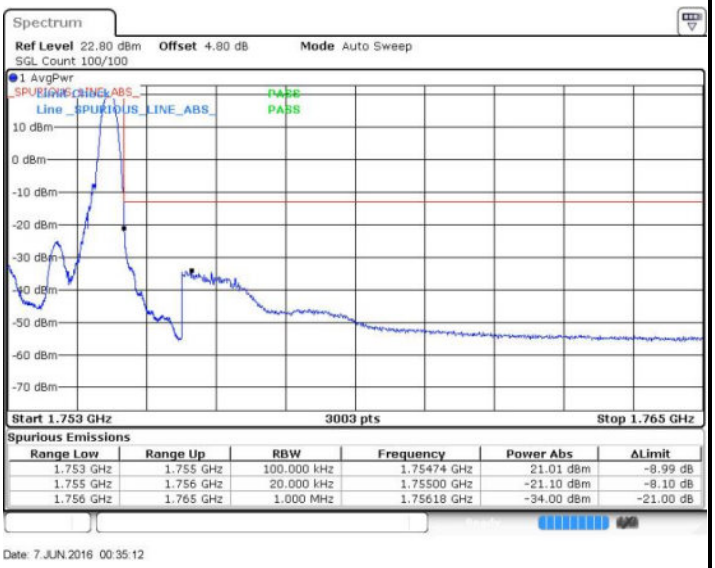
Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

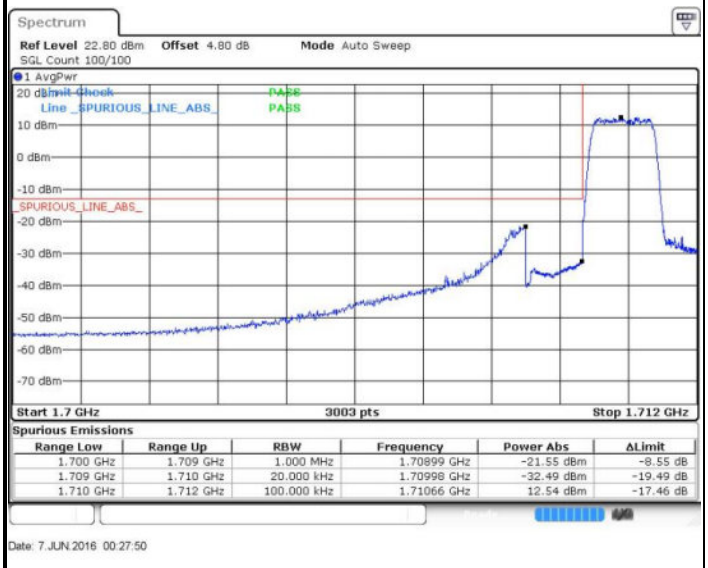
Lowest Band Edge / 1RB



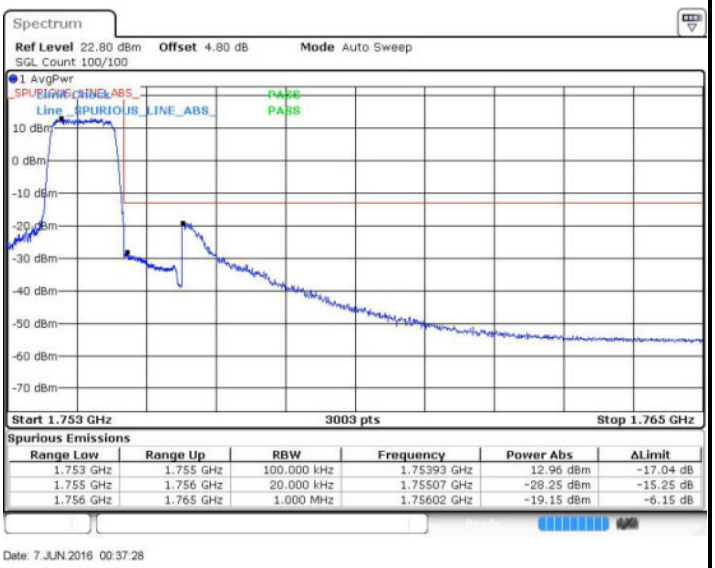
Highest Band Edge / 1RB



Lowest Band Edge / Full RB

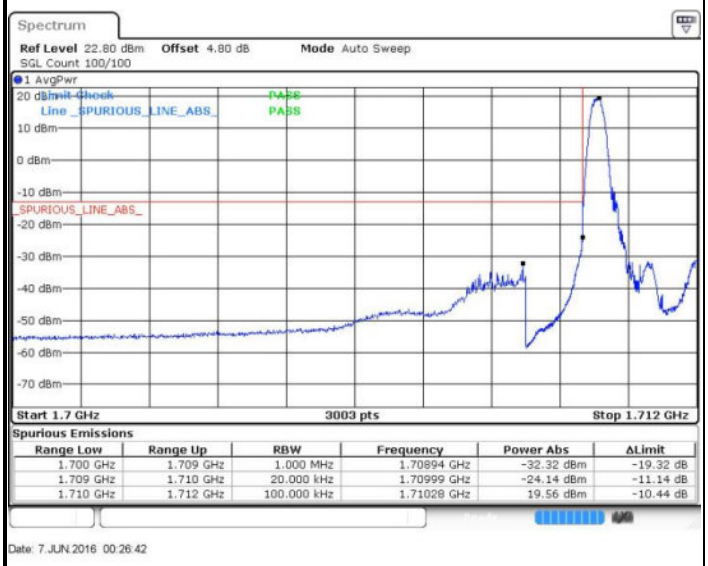


Highest Band Edge / Full RB

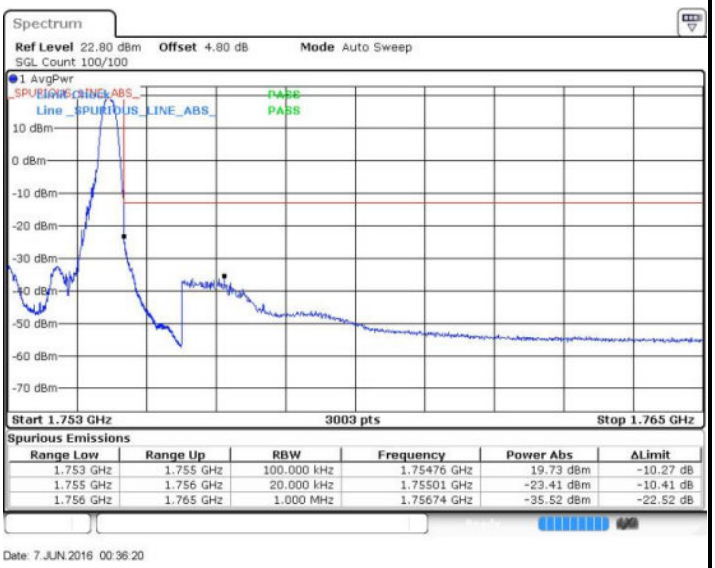


LTE Band 4 / 1.4MHz / 16QAM

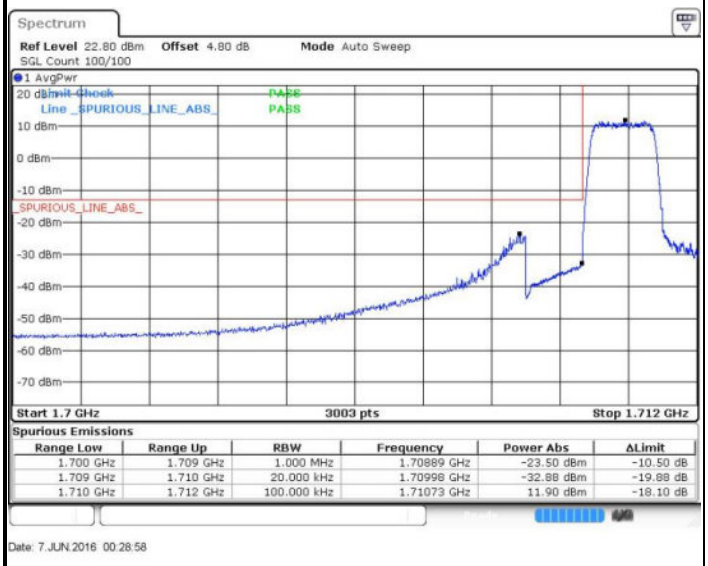
Lowest Band Edge / 1 RB



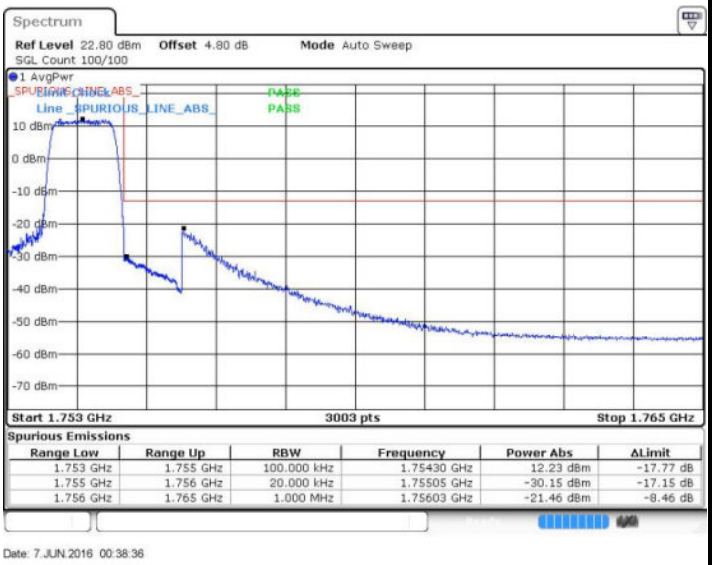
Highest Band Edge / 1 RB

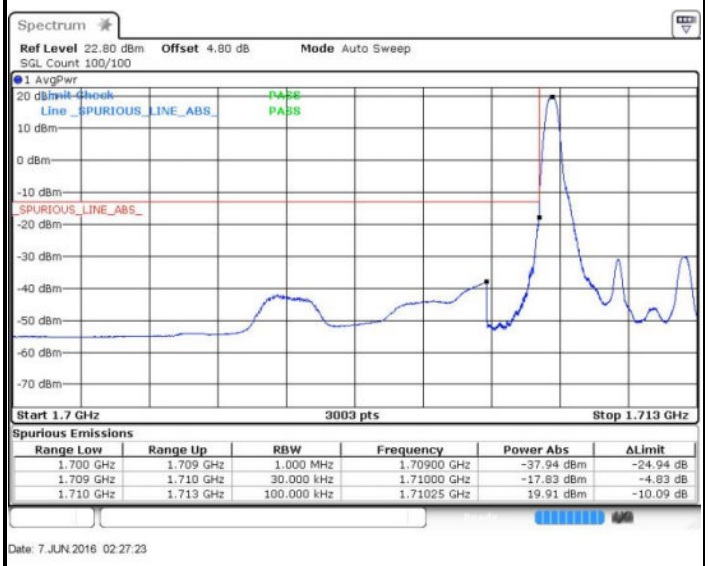
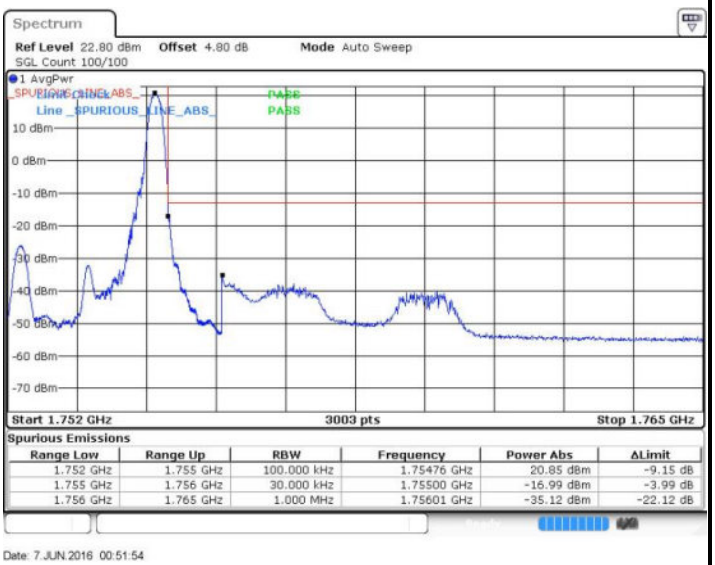
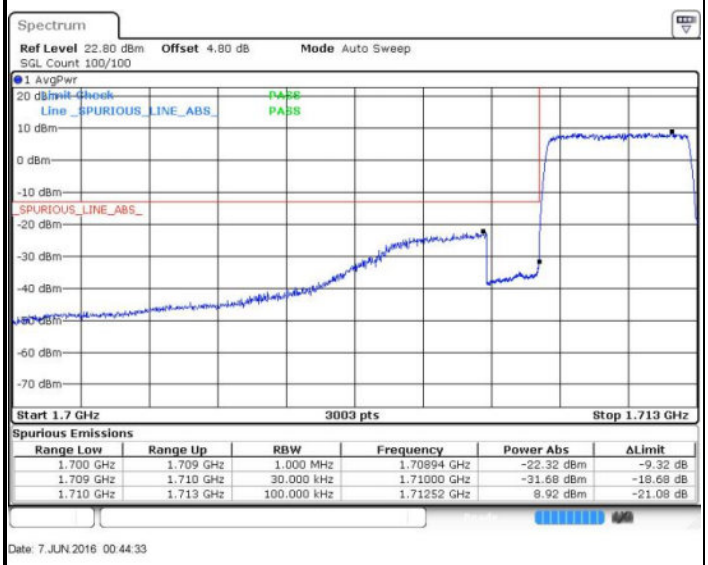
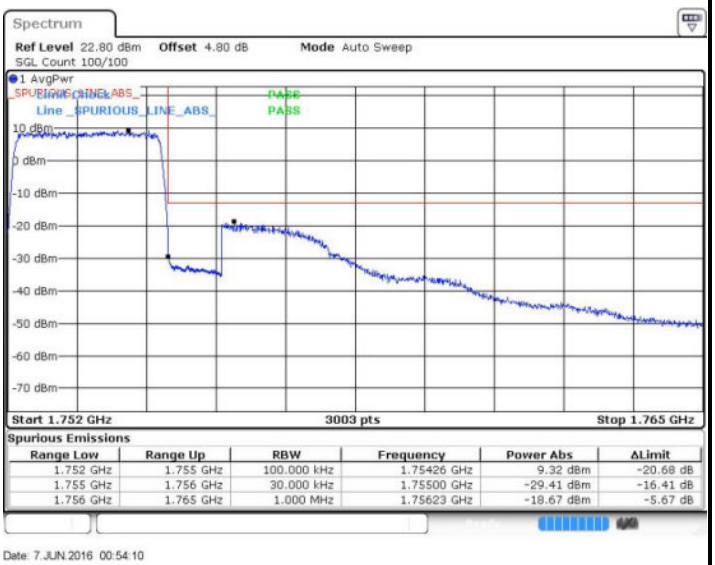


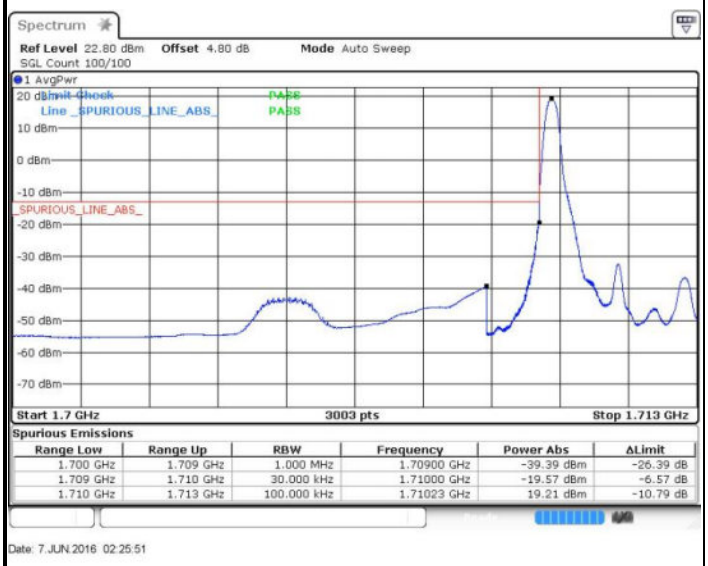
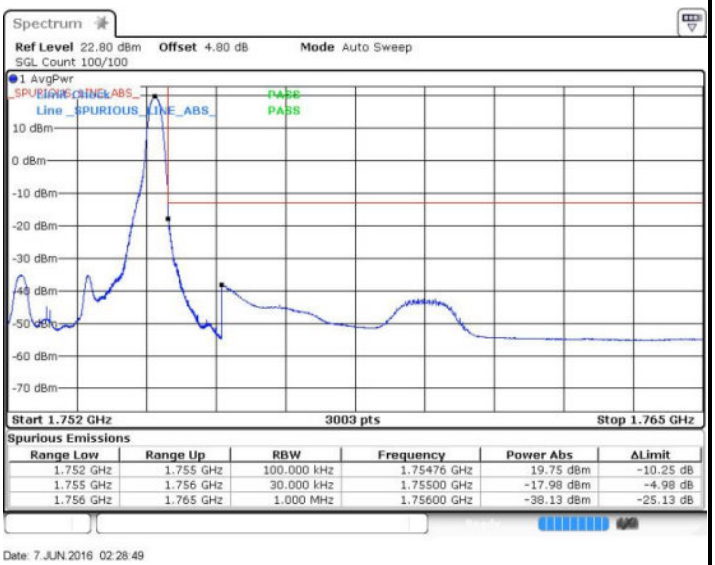
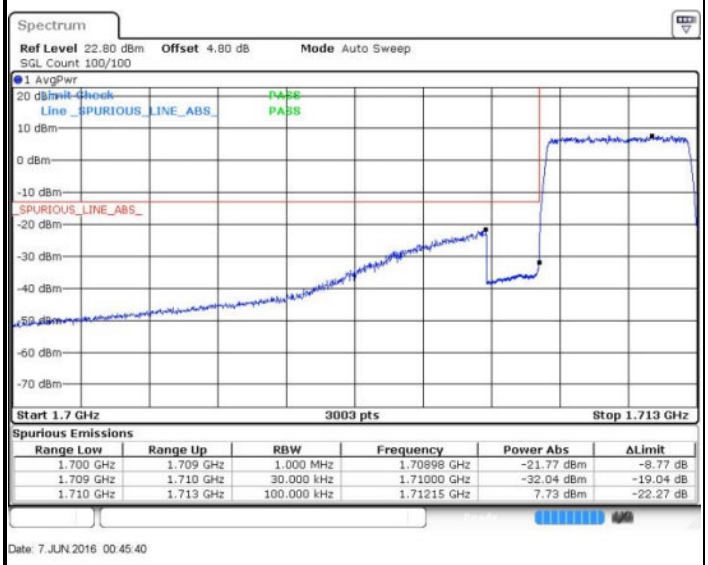
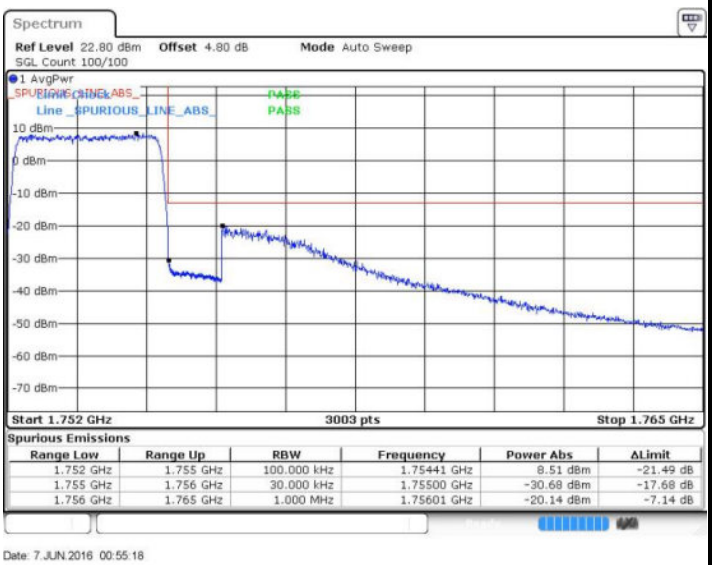
Lowest Band Edge / Full RB

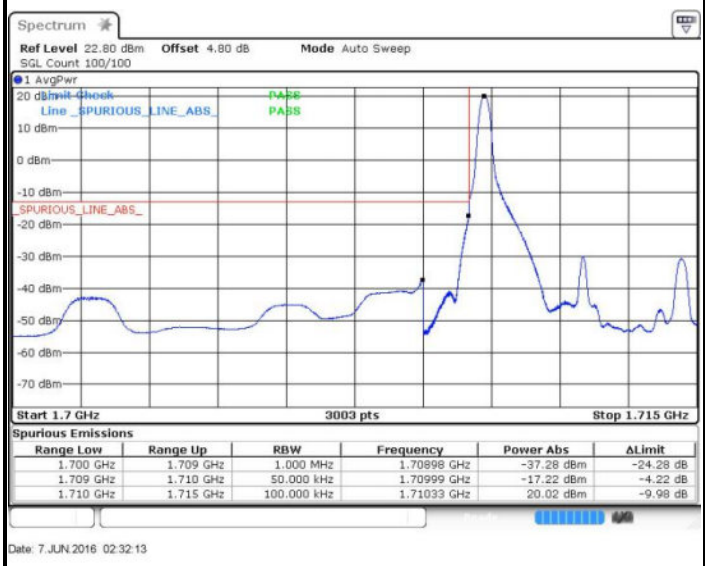
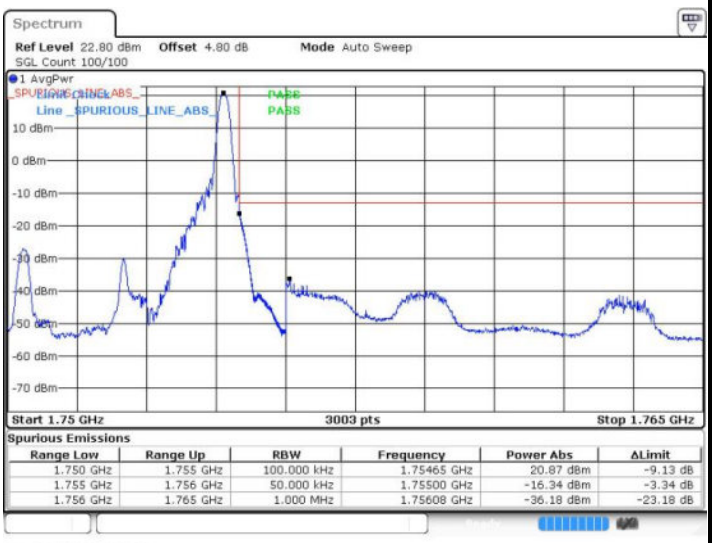
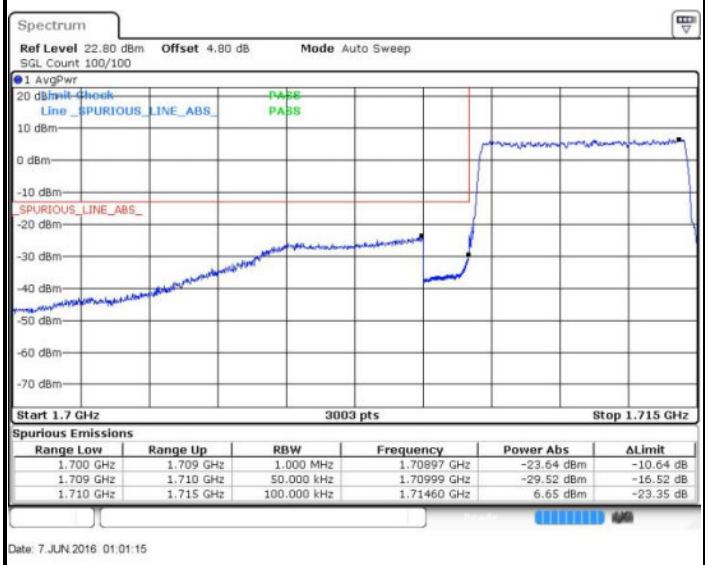
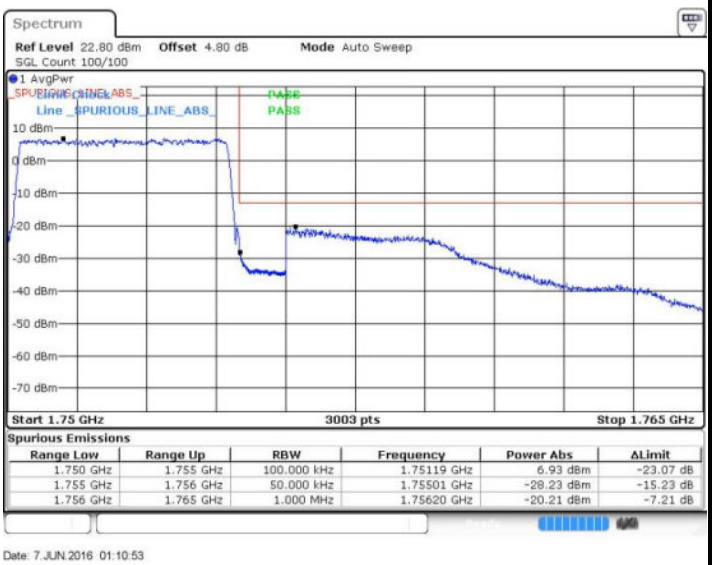


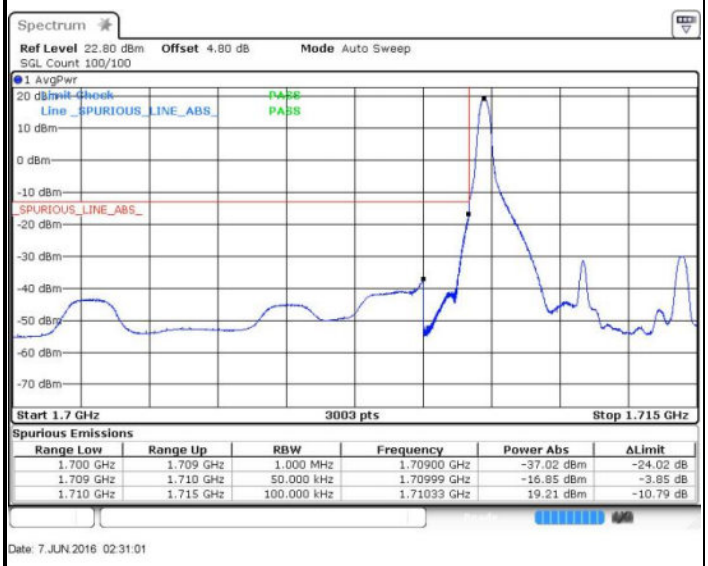
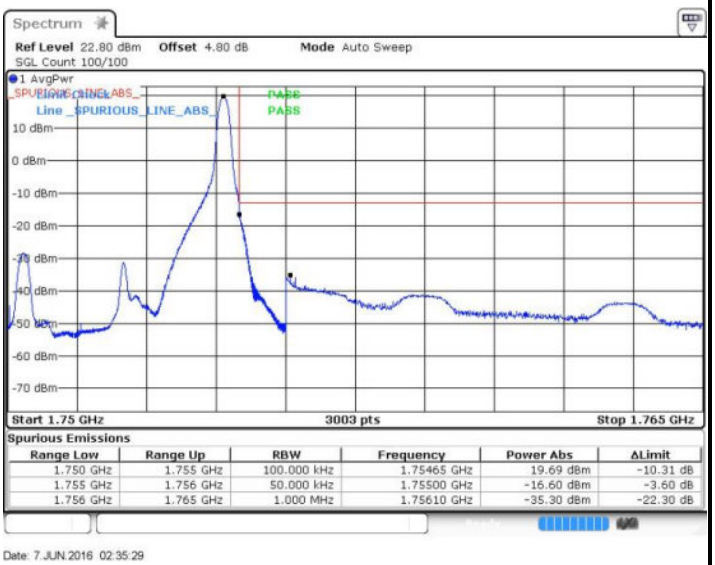
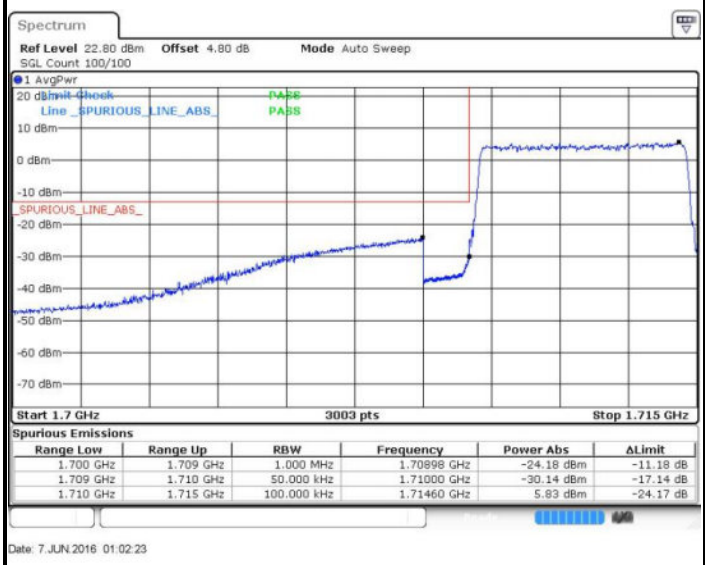
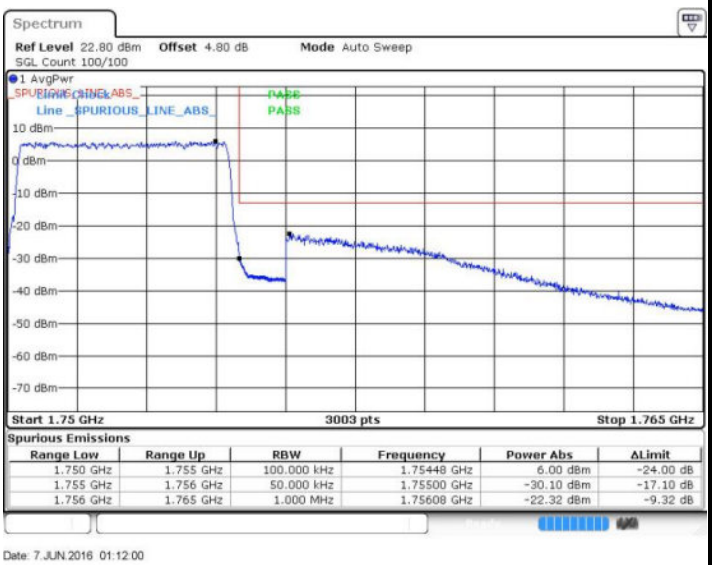
Highest Band Edge / Full RB

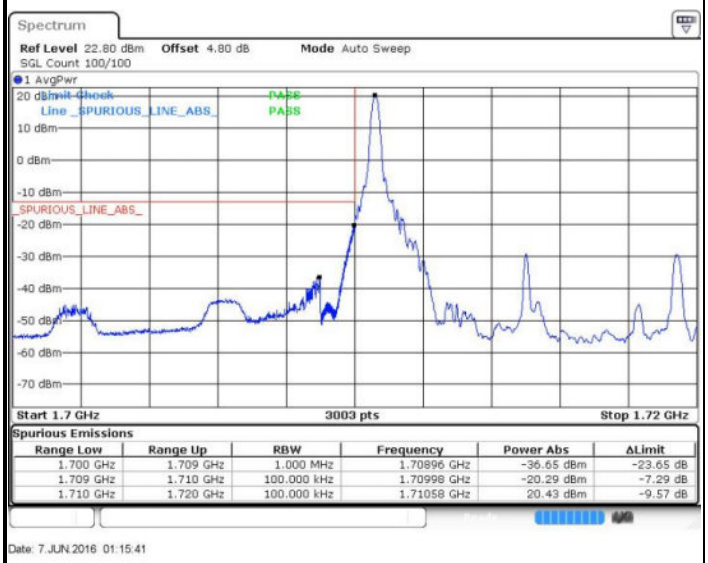
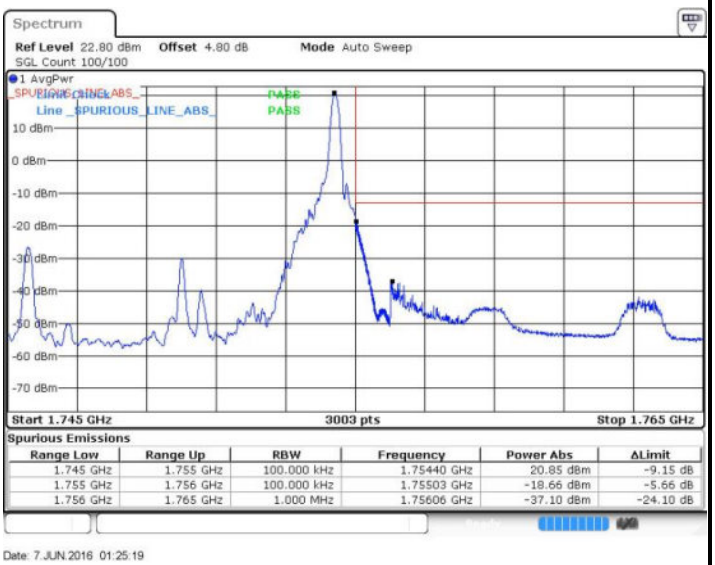
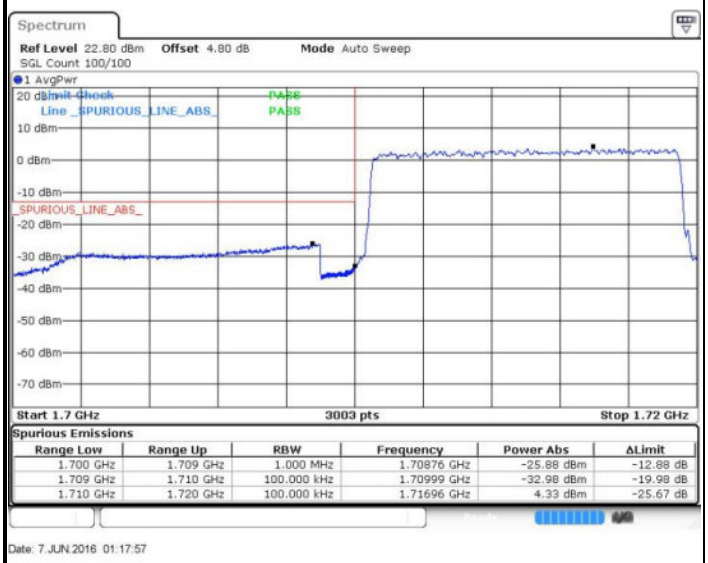
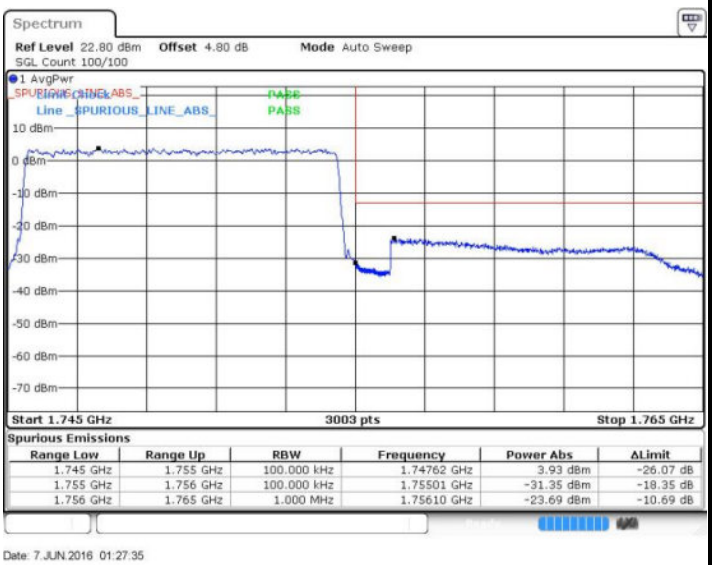


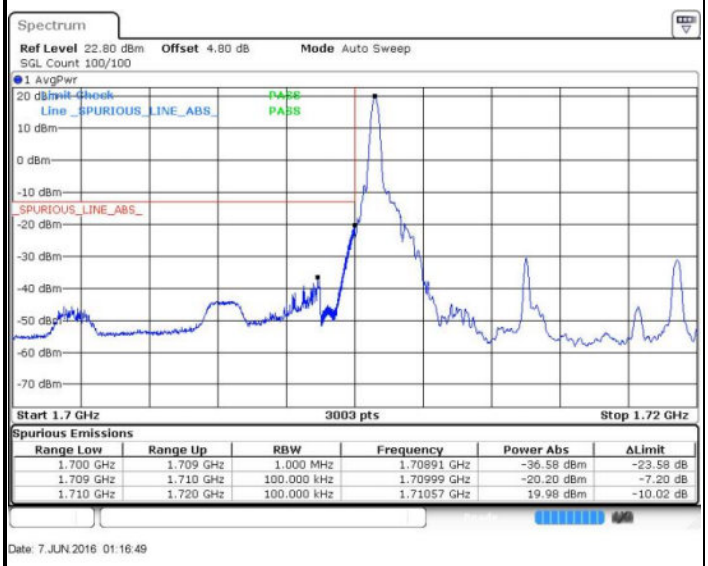
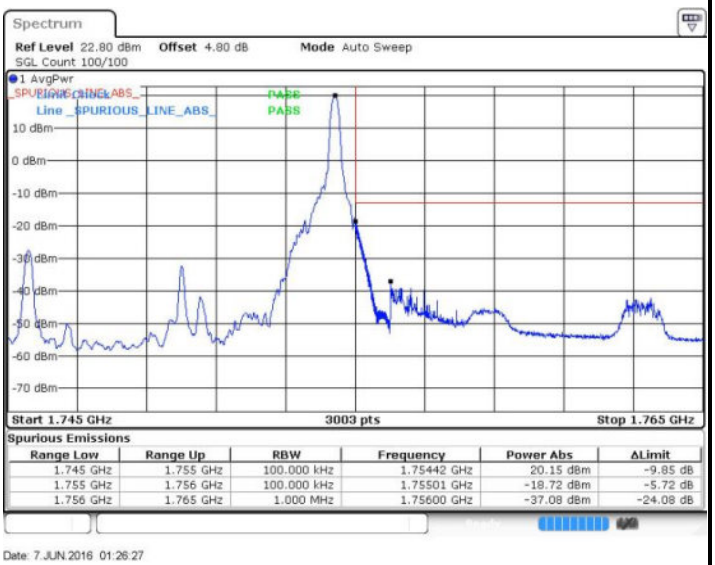
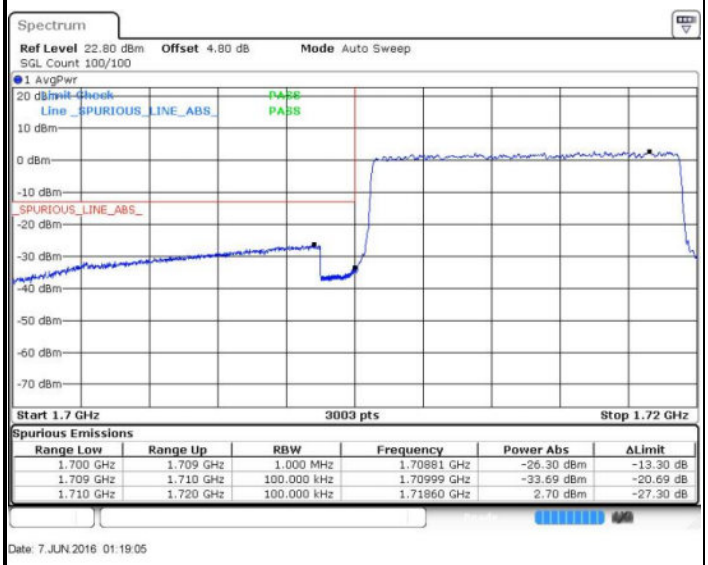
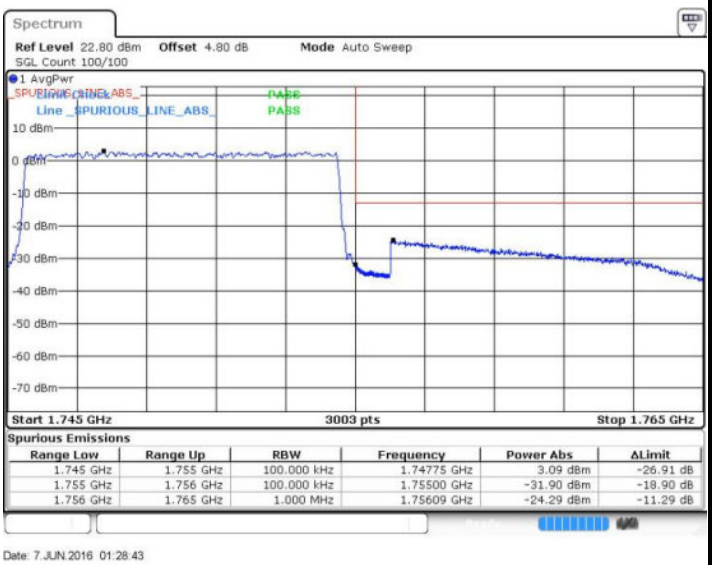
LTE Band 4 / 3MHz / QPSK	
Lowest Band Edge / 1RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

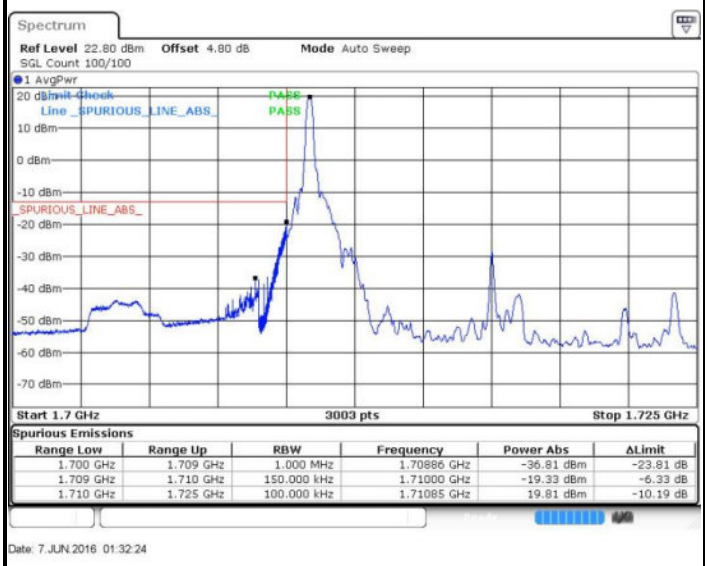
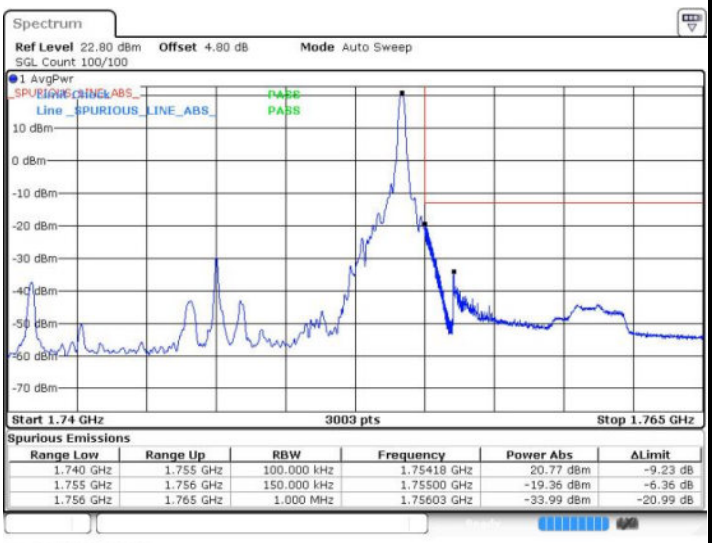
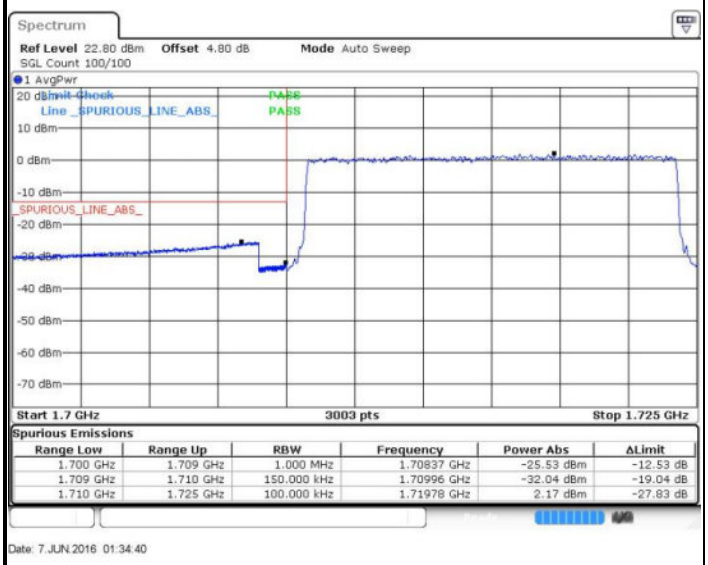
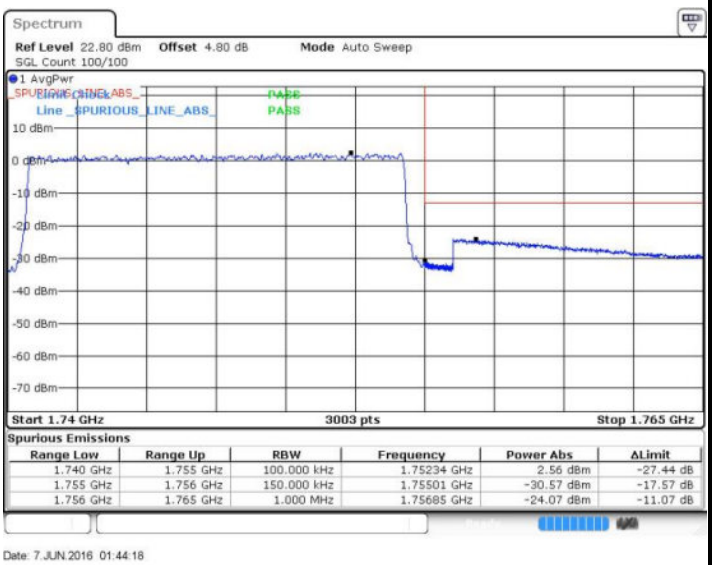
LTE Band 4 / 3MHz / 16QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge /1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

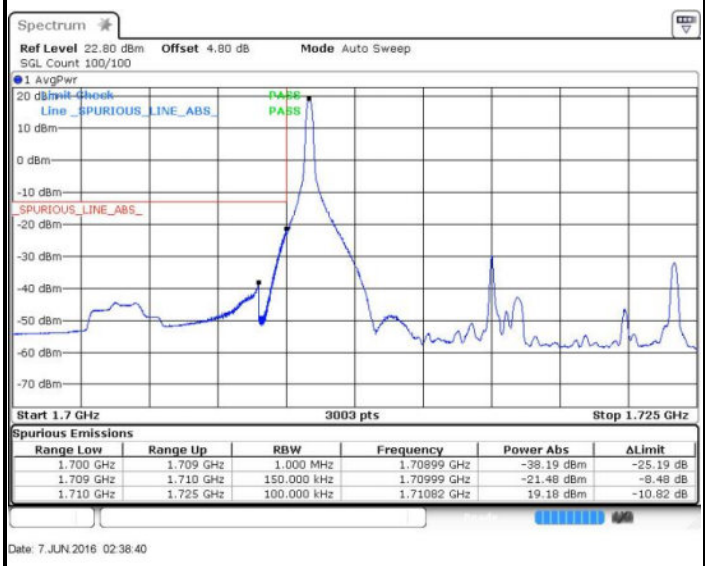
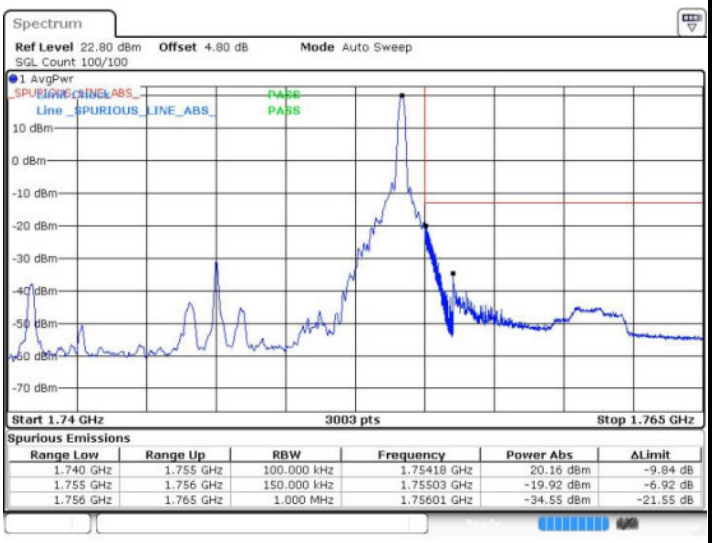
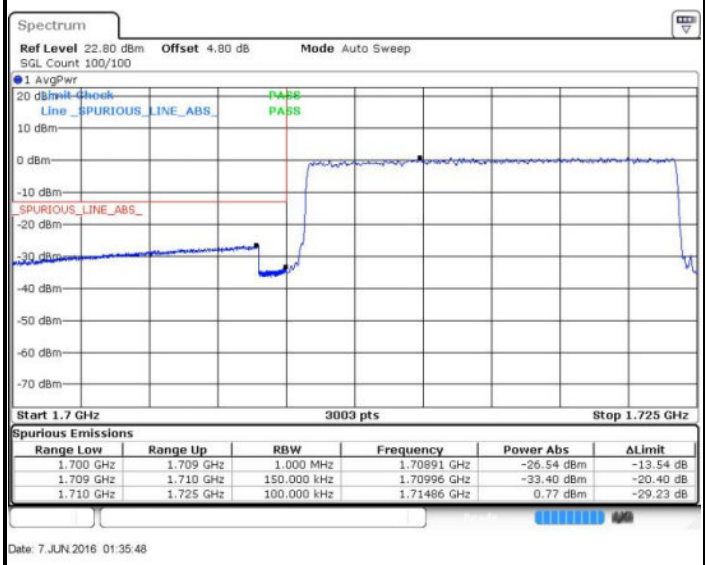
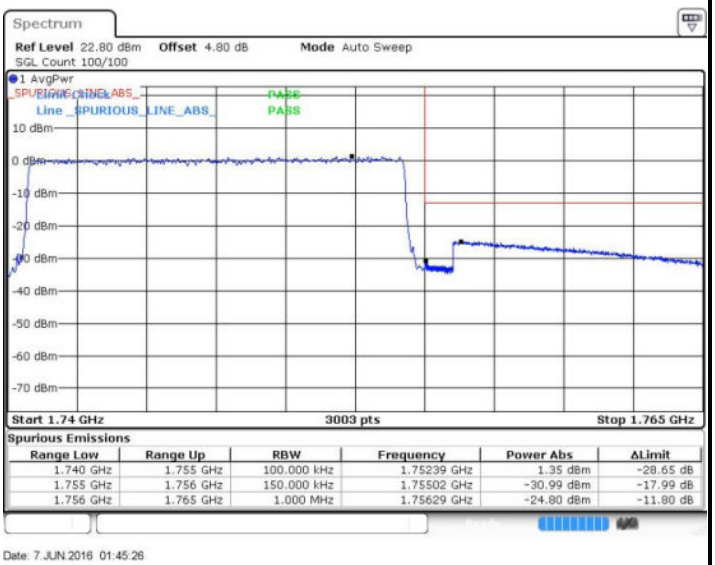
LTE Band 4 / 5MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

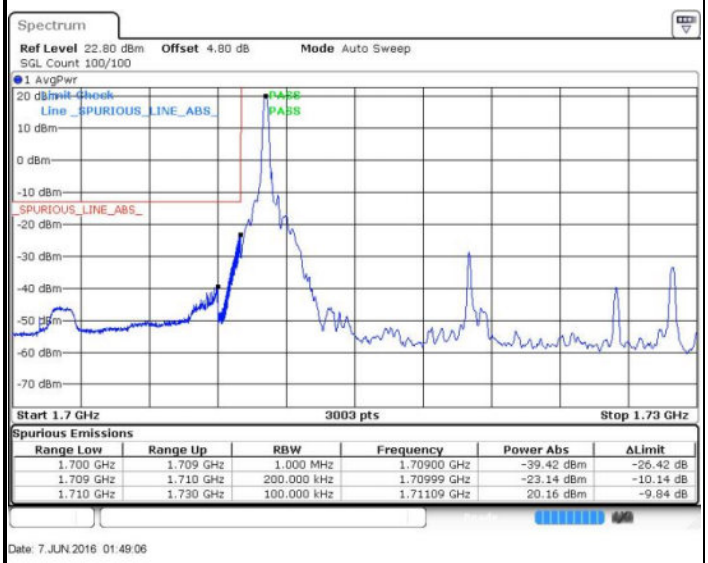
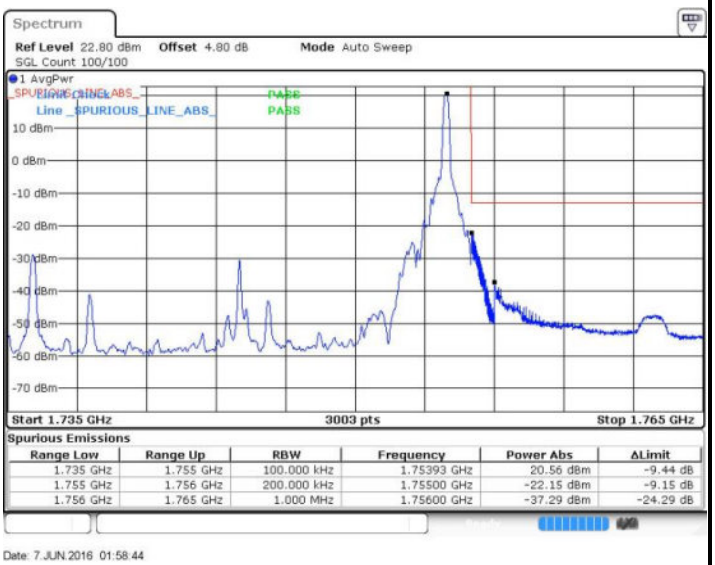
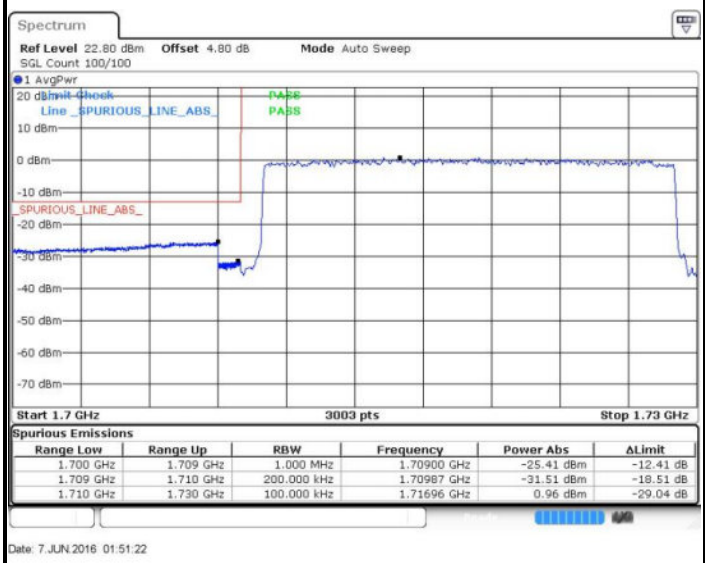
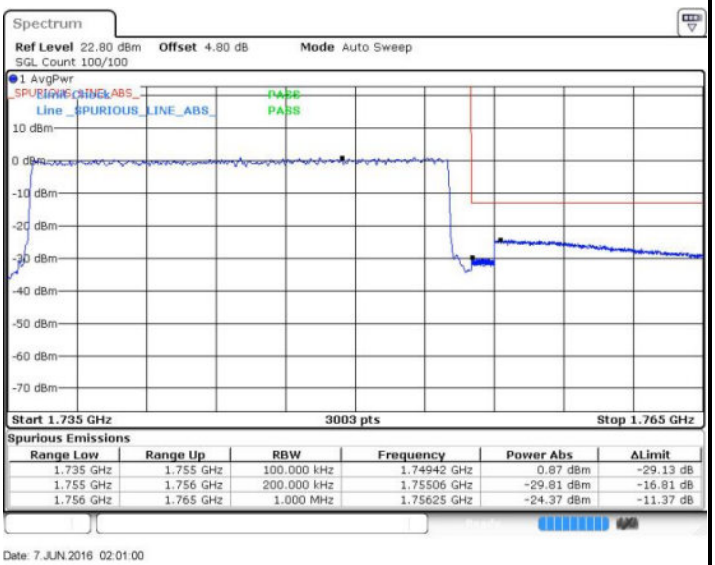
LTE Band 4 / 5MHz / 16QAM	
Lowest Band Edge / 1RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

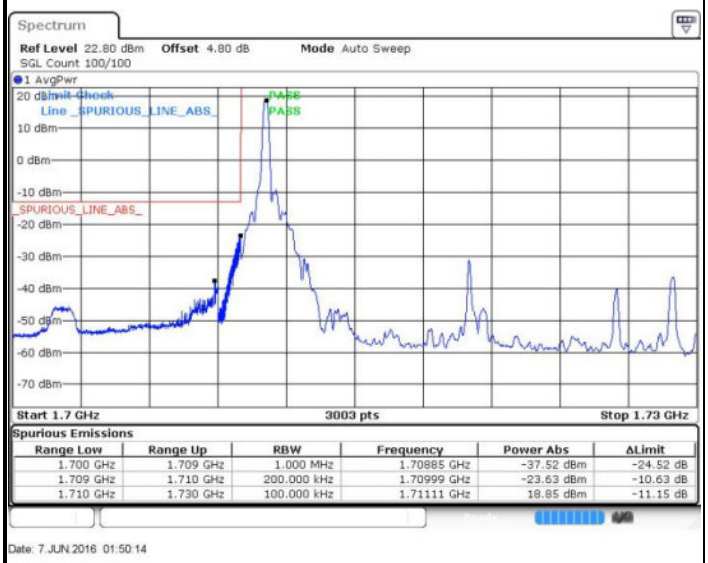
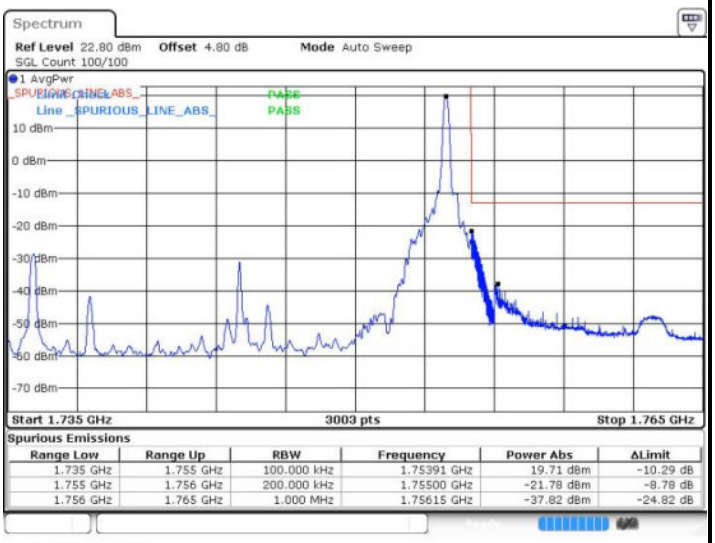
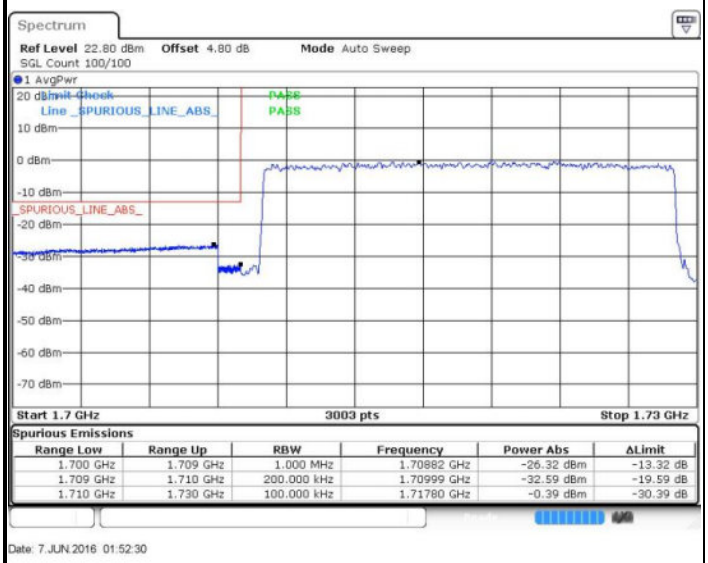
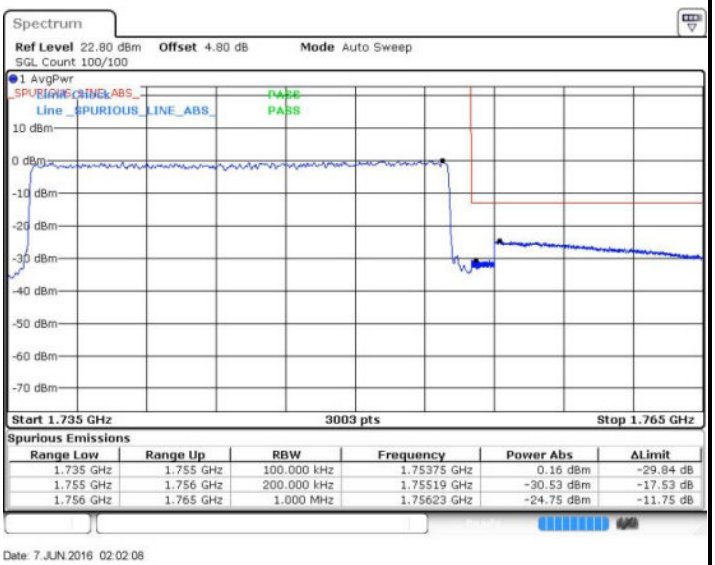
LTE Band 4 / 10MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 4 / 10MHz / 16QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 4 / 15MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 4 / 15MHz / 16QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

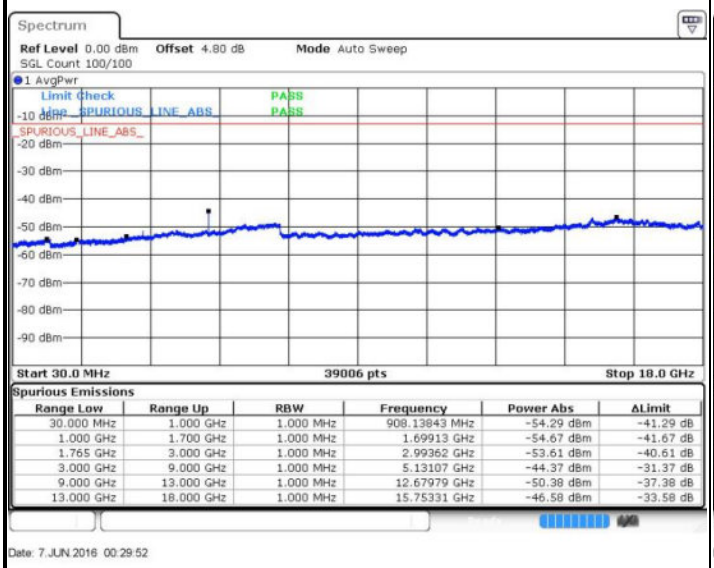
LTE Band 4 / 20MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 4 / 20MHz / 16QAM	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

Conducted Spurious Emission

LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

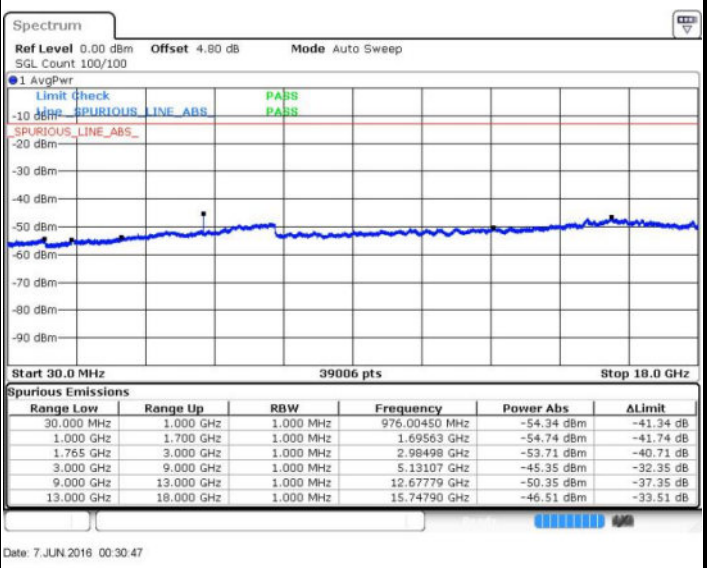


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	908.13843 MHz	-54.29 dBm	-41.29 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69913 GHz	-54.67 dBm	-41.67 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99362 GHz	-53.61 dBm	-40.61 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.13107 GHz	-44.37 dBm	-31.37 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.67979 GHz	-50.38 dBm	-37.38 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.75331 GHz	-46.58 dBm	-33.58 dB

Date: 7.JUN.2016 00:29:52

Lowest Channel / 16QAM

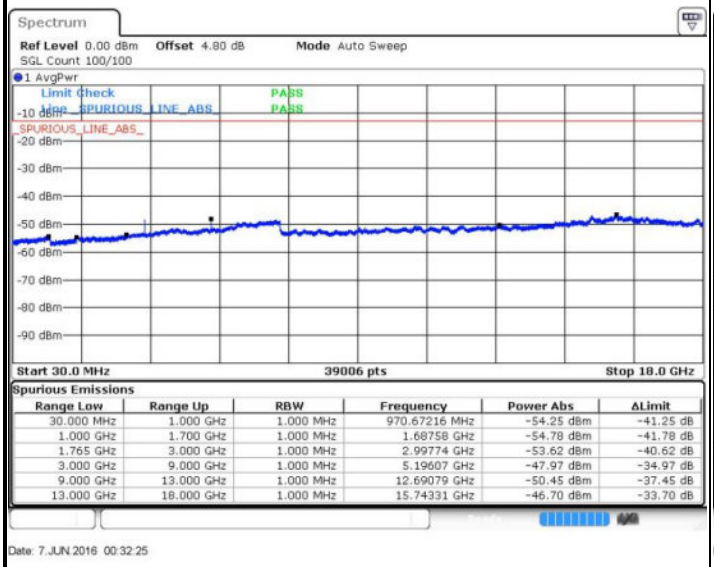


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	976.00450 MHz	-54.34 dBm	-41.34 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69563 GHz	-54.74 dBm	-41.74 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98498 GHz	-53.71 dBm	-40.71 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.13107 GHz	-45.35 dBm	-32.35 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.67779 GHz	-50.35 dBm	-37.35 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74790 GHz	-46.51 dBm	-33.51 dB

Date: 7.JUN.2016 00:30:47

Middle Channel / QPSK

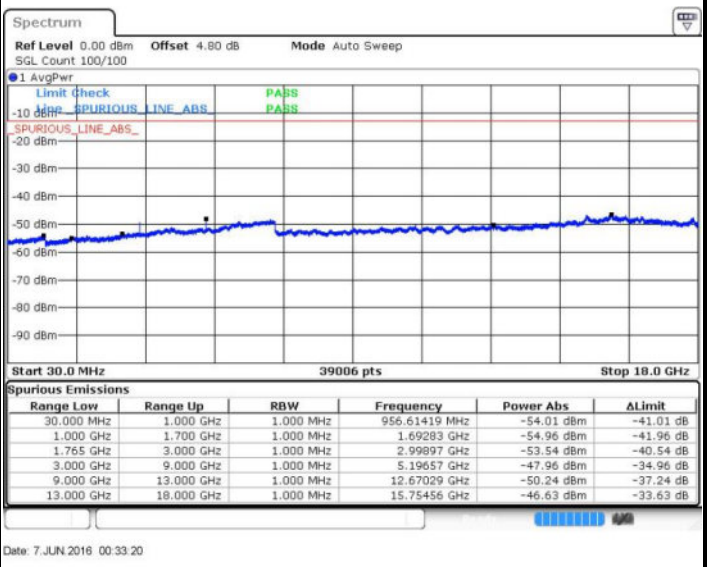


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	970.67216 MHz	-54.25 dBm	-41.25 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68758 GHz	-54.78 dBm	-41.78 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99774 GHz	-53.62 dBm	-40.62 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.19607 GHz	-47.97 dBm	-34.97 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69079 GHz	-50.45 dBm	-37.45 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74331 GHz	-46.70 dBm	-33.70 dB

Date: 7.JUN.2016 00:32:25

Middle Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	956.61419 MHz	-54.01 dBm	-41.01 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69283 GHz	-54.96 dBm	-41.96 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99897 GHz	-53.54 dBm	-40.54 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.19657 GHz	-47.96 dBm	-34.96 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.67029 GHz	-50.24 dBm	-37.24 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.75456 GHz	-46.63 dBm	-33.63 dB

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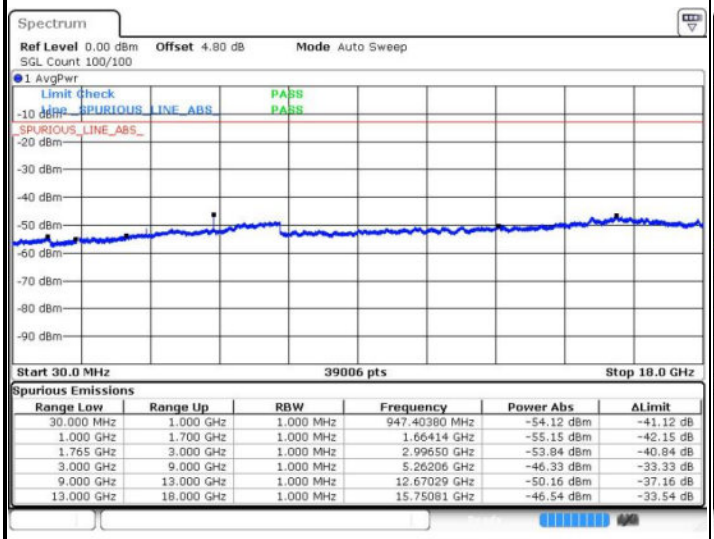
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	947.40380 MHz	-54.12 dBm	-41.12 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66414 GHz	-55.15 dBm	-42.15 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99650 GHz	-53.84 dBm	-40.84 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.26206 GHz	-46.33 dBm	-33.33 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.67029 GHz	-50.16 dBm	-37.16 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.75081 GHz	-46.54 dBm	-33.54 dB

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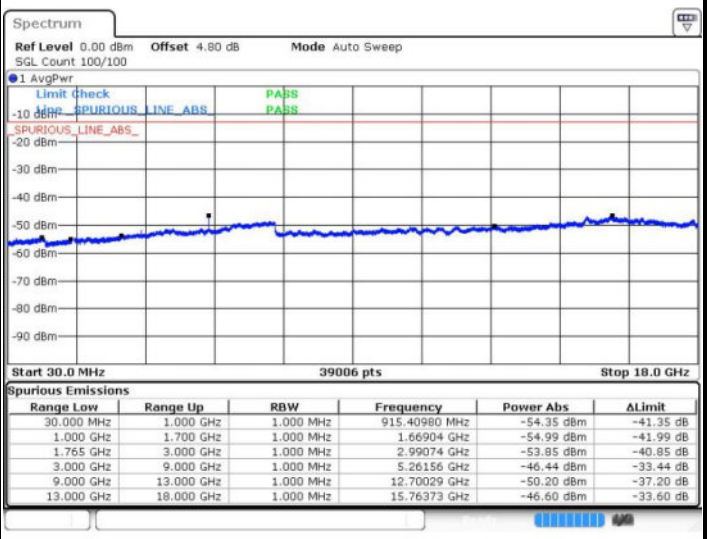
Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	915.40980 MHz	-54.35 dBm	-41.35 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66904 GHz	-54.99 dBm	-41.99 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99074 GHz	-53.85 dBm	-40.85 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.26156 GHz	-46.44 dBm	-33.44 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70029 GHz	-50.20 dBm	-37.20 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.76373 GHz	-46.60 dBm	-33.60 dB

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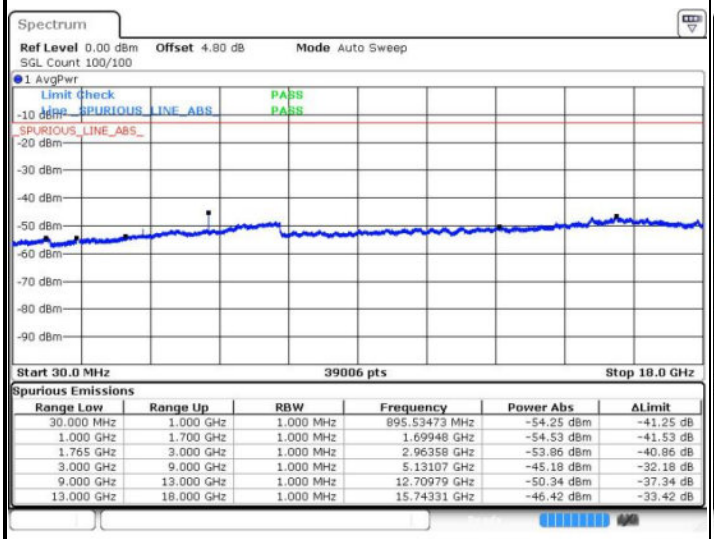
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	895.53473 MHz	-54.25 dBm	-41.25 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69948 GHz	-54.53 dBm	-41.53 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.96358 GHz	-53.86 dBm	-40.86 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.13107 GHz	-45.18 dBm	-32.18 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70979 GHz	-50.34 dBm	-37.34 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74331 GHz	-46.42 dBm	-33.42 dB

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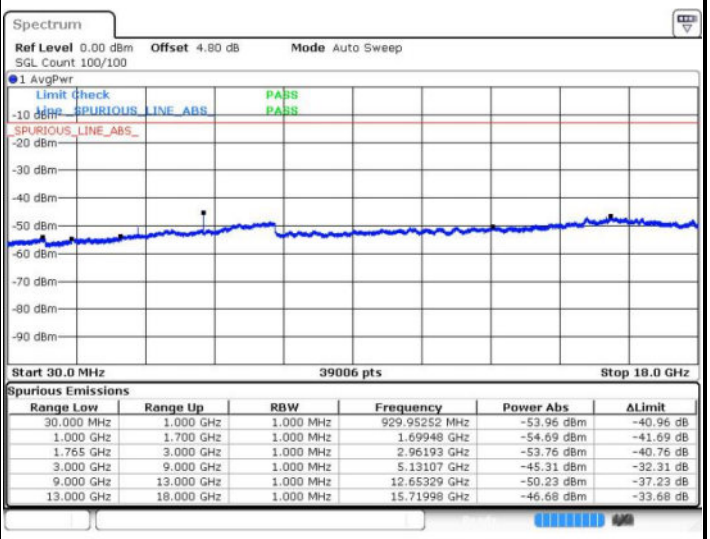
Lowest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	929.95252 MHz	-53.96 dBm	-40.96 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69948 GHz	-54.69 dBm	-41.69 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.96193 GHz	-53.76 dBm	-40.76 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.13107 GHz	-45.31 dBm	-32.31 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.65329 GHz	-50.23 dBm	-37.23 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.71998 GHz	-46.68 dBm	-33.68 dB

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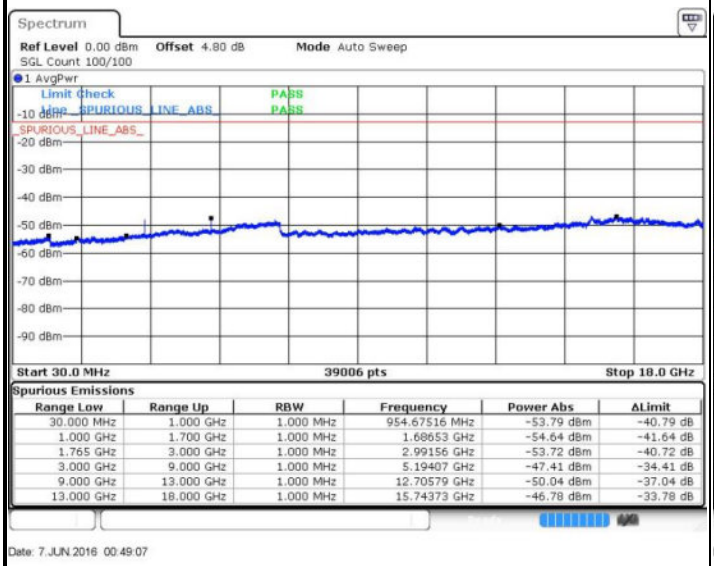
LTE Band 4 / 3MHz

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	954.67516 MHz	-53.79 dBm	-40.79 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68653 GHz	-54.64 dBm	-41.64 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99156 GHz	-53.72 dBm	-40.72 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.19407 GHz	-47.41 dBm	-34.41 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70579 GHz	-50.04 dBm	-37.04 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74373 GHz	-46.78 dBm	-33.78 dB

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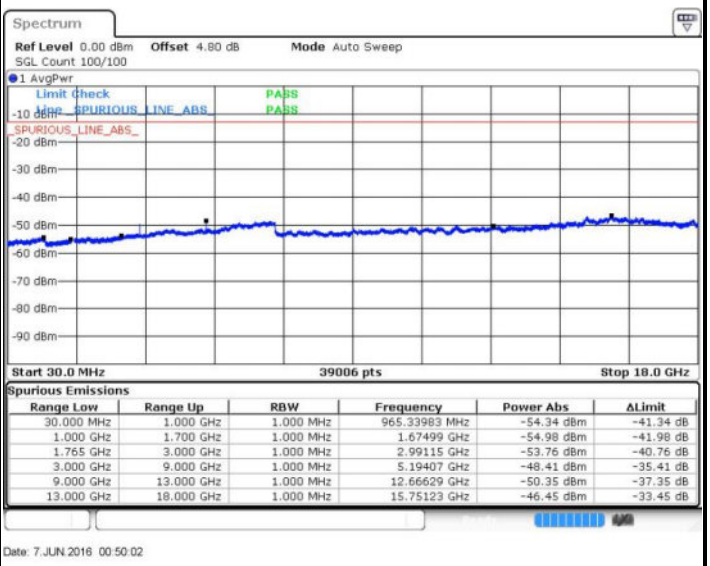
Middle Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	965.33983 MHz	-54.34 dBm	-41.34 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67499 GHz	-54.98 dBm	-41.98 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99115 GHz	-53.76 dBm	-40.76 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.19407 GHz	-48.41 dBm	-35.41 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.66629 GHz	-50.35 dBm	-37.35 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.75123 GHz	-46.45 dBm	-33.45 dB

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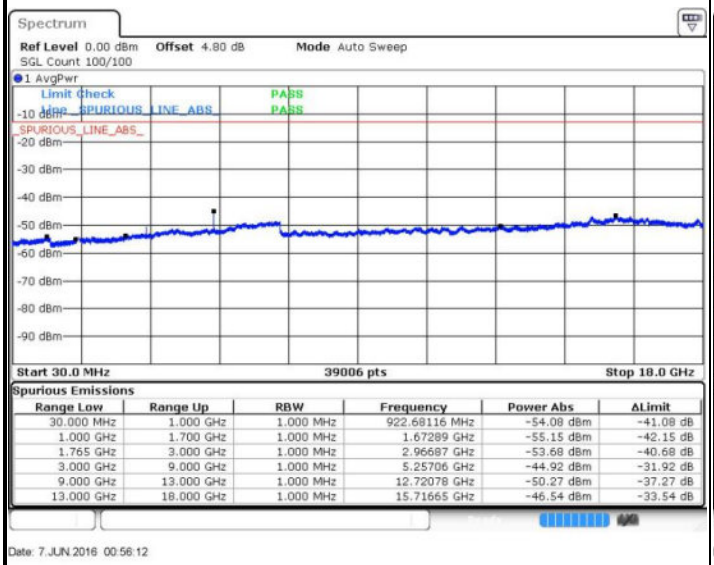
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	922.68116 MHz	-54.08 dBm	-41.08 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67289 GHz	-55.15 dBm	-42.15 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.96687 GHz	-53.68 dBm	-40.68 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.25706 GHz	-44.92 dBm	-31.92 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.72078 GHz	-50.27 dBm	-37.27 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.71665 GHz	-46.54 dBm	-33.54 dB

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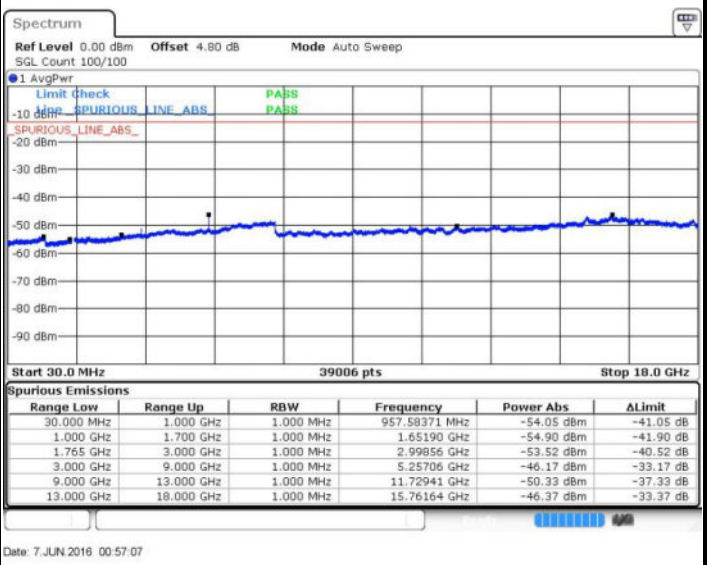
Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	957.58371 MHz	-54.05 dBm	-41.05 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65190 GHz	-54.90 dBm	-41.90 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99856 GHz	-53.52 dBm	-40.52 dB
3.000 GHz	9.000 GHz	1.000 MHz	5.25706 GHz	-46.17 dBm	-33.17 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.72941 GHz	-50.33 dBm	-37.33 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.76164 GHz	-46.37 dBm	-33.37 dB

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