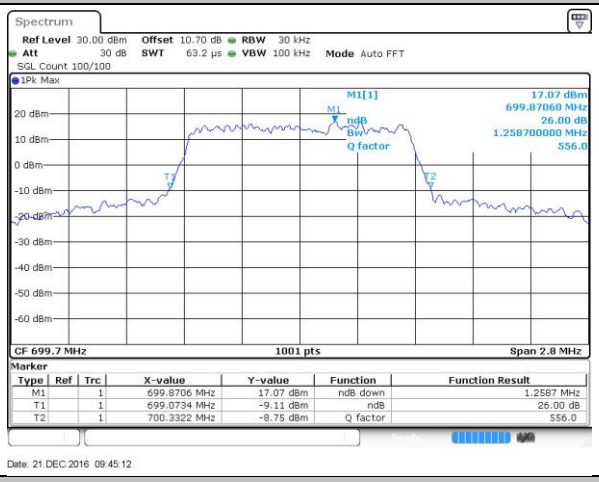
26dB Bandwidth

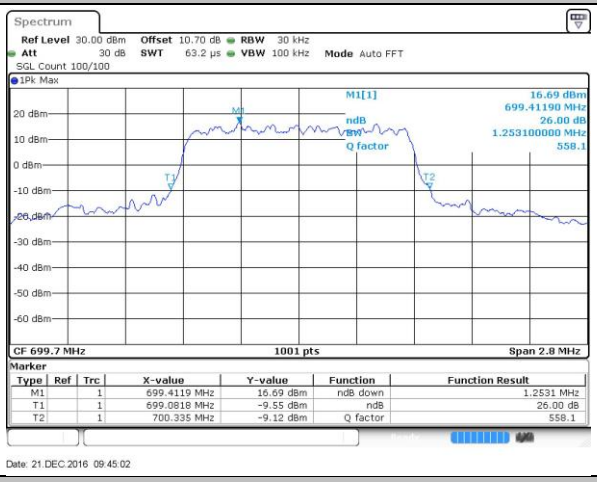
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.26	1.25	3.03	2.99	4.98	5.10	9.81	9.89	-	-	-	-
Middle CH	1.26	1.26	3.00	3.00	4.99	5.06	9.83	9.87	-	-	-	-
Highest CH	1.26	1.24	3.01	2.97	4.93	4.84	9.97	9.89	-	-	-	-

LTE Band 12

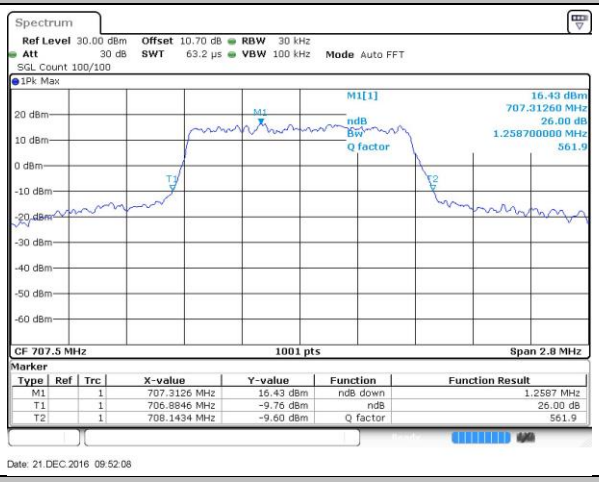
Lowest Channel / 1.4MHz / QPSK



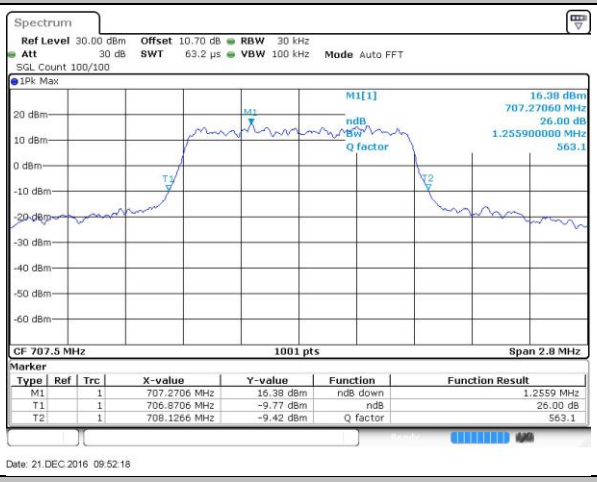
Lowest Channel / 1.4MHz / 16QAM



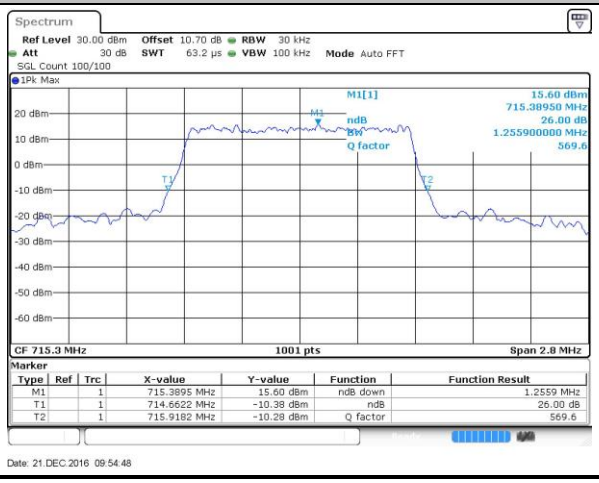
Middle Channel / 1.4MHz / QPSK



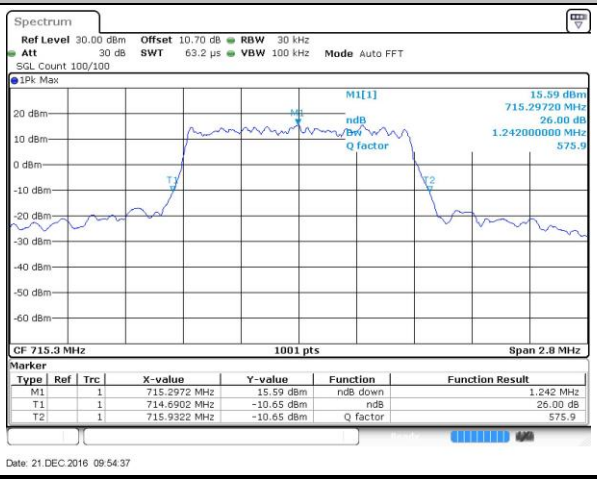
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

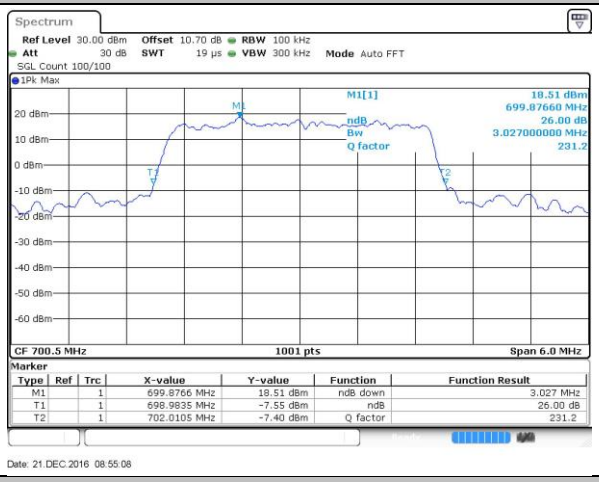


Highest Channel / 1.4MHz / 16QAM

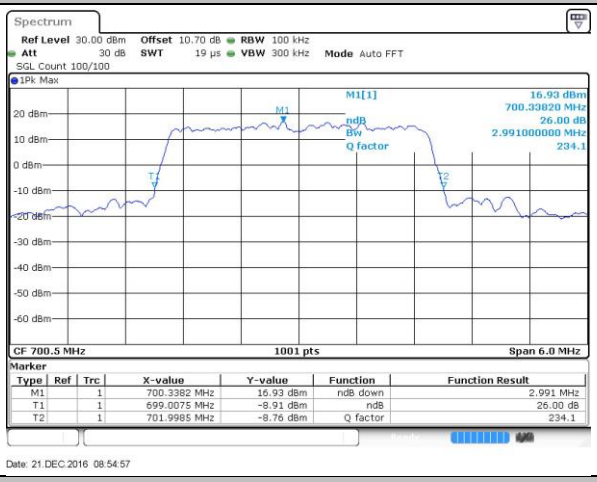


LTE Band 12

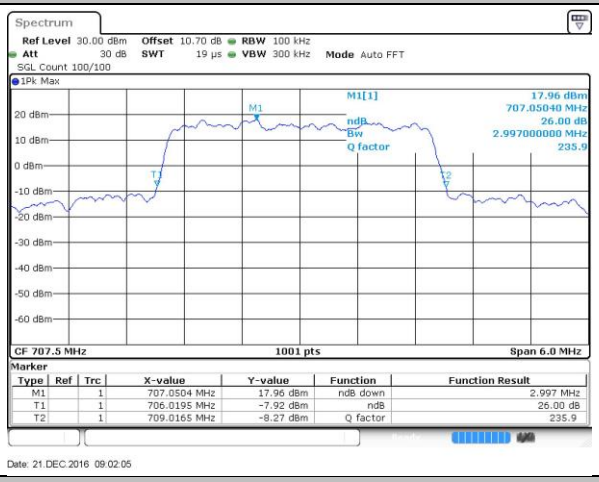
Lowest Channel / 3MHz / QPSK



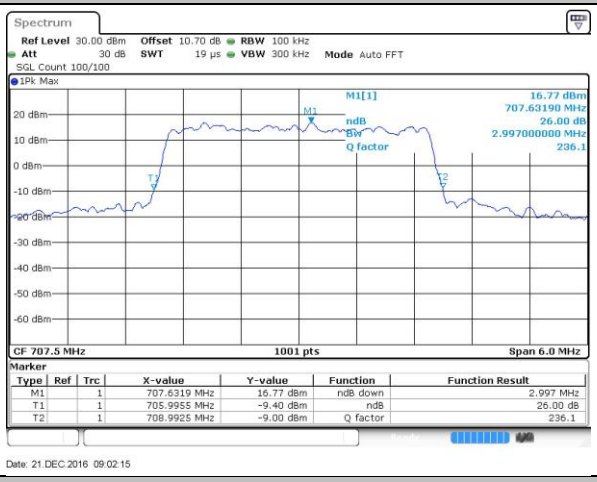
Lowest Channel / 3MHz / 16QAM



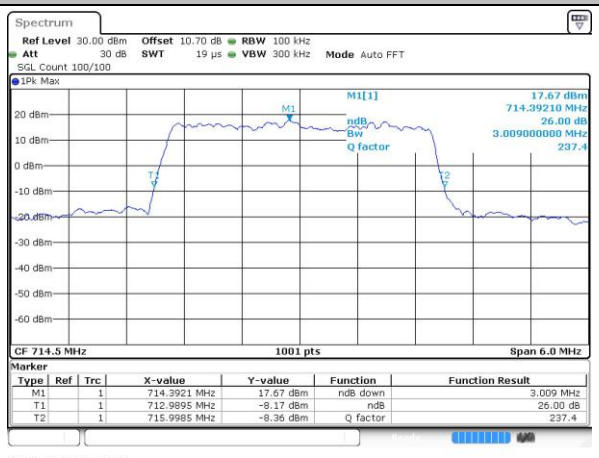
Middle Channel / 3MHz / QPSK



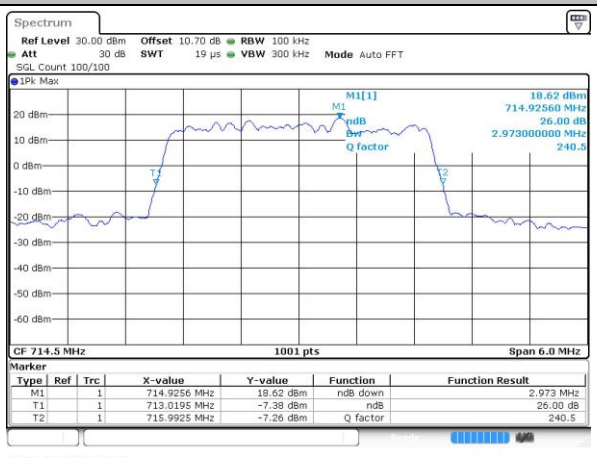
Middle Channel /3MHz / 16QAM



Highest Channel /3MHz / QPSK

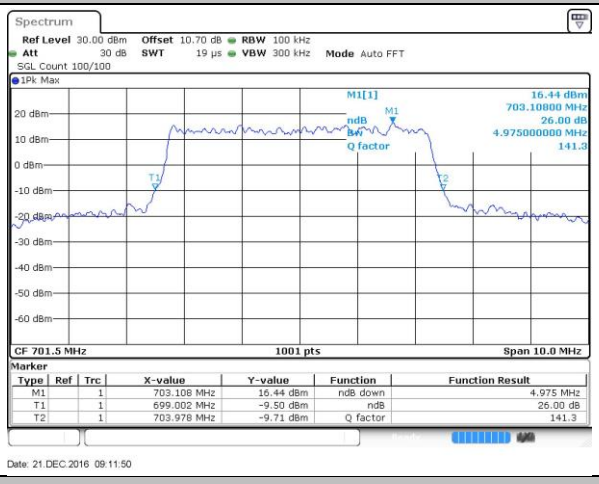


Highest Channel /3MHz / 16QAM

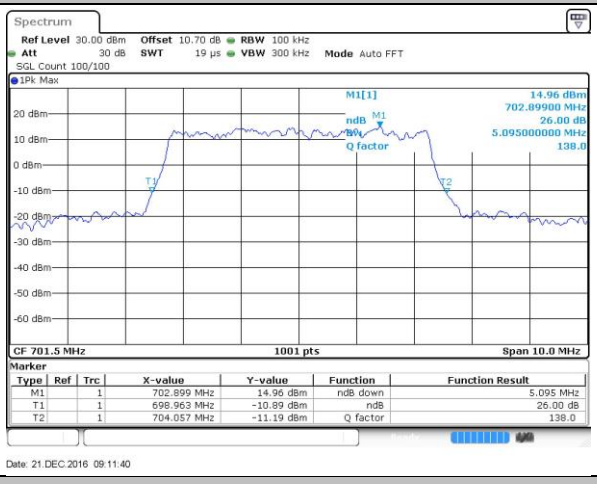


LTE Band 12

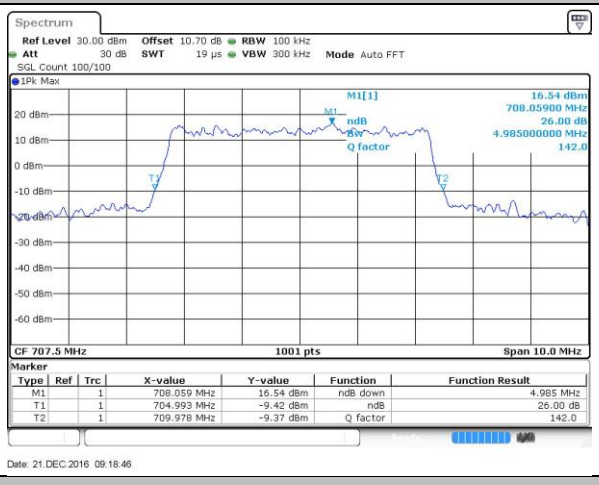
Lowest Channel / 5MHz / QPSK



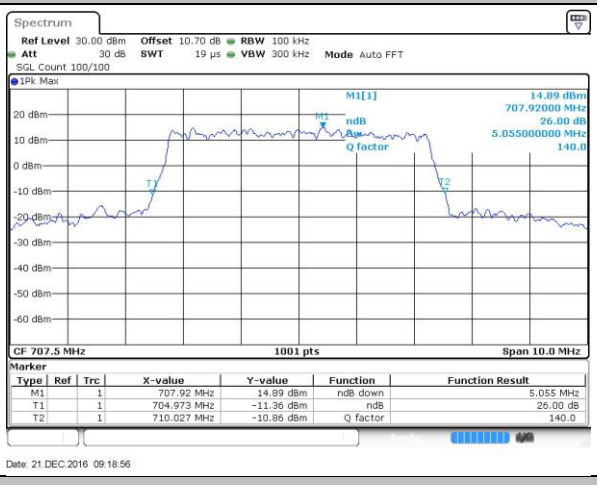
Lowest Channel / 5MHz / 16QAM



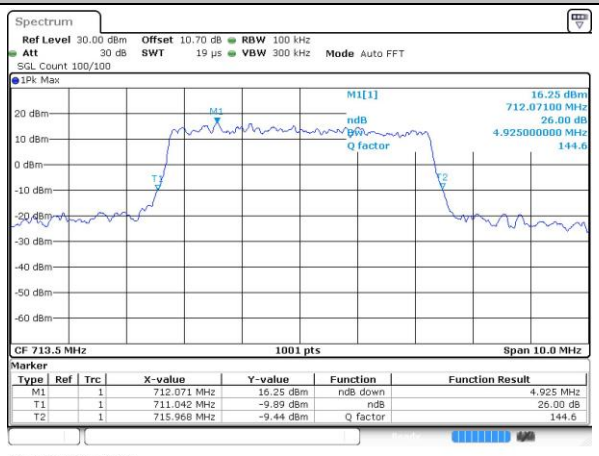
Middle Channel / 5MHz / QPSK



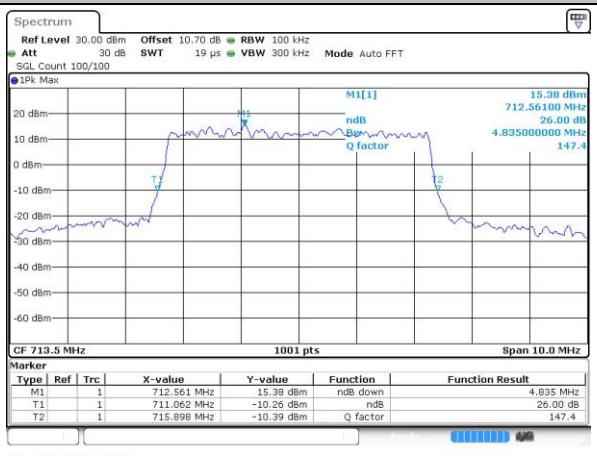
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

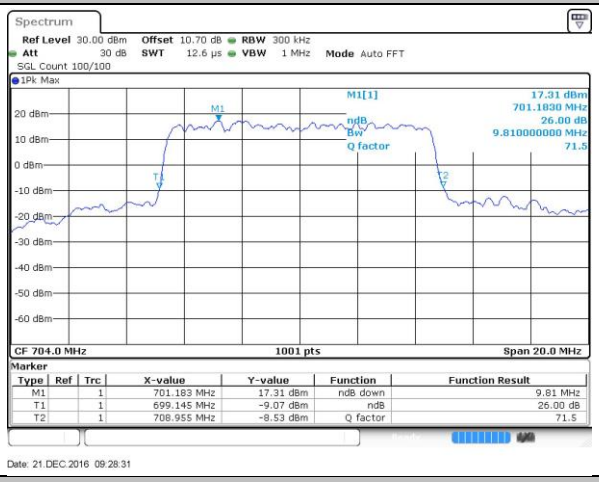


Highest Channel / 5MHz / 16QAM

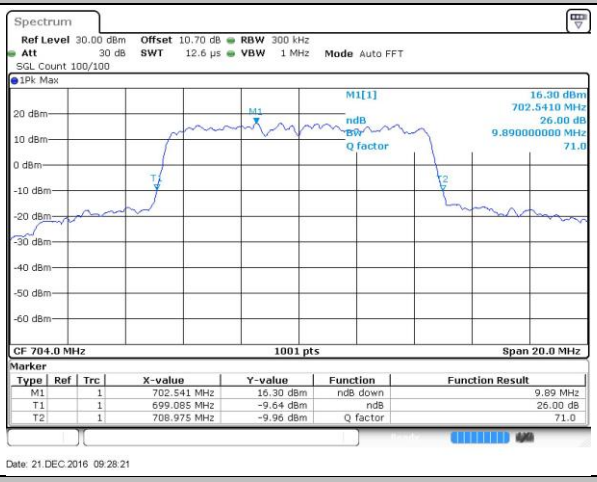


LTE Band 12

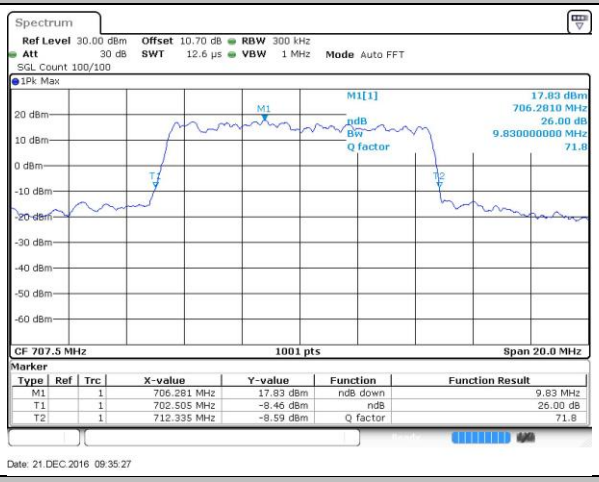
Lowest Channel / 10MHz / QPSK



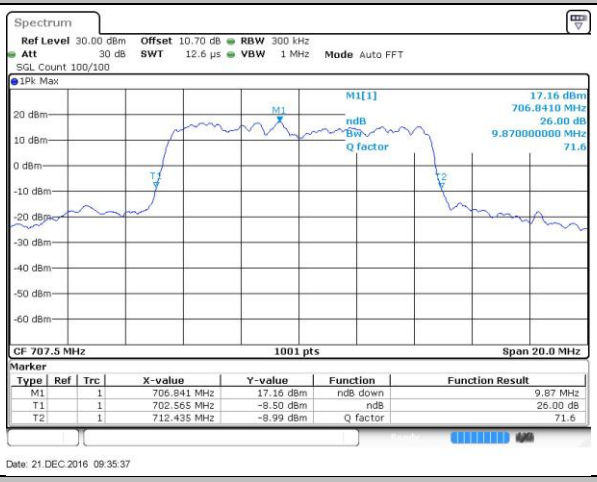
Lowest Channel / 10MHz / 16QAM



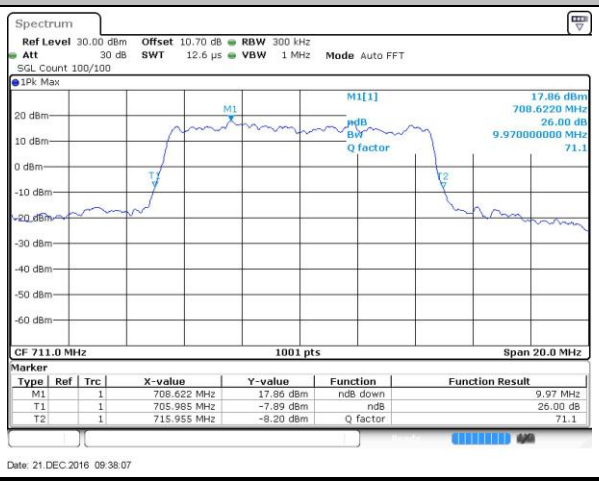
Middle Channel / 10MHz / QPSK



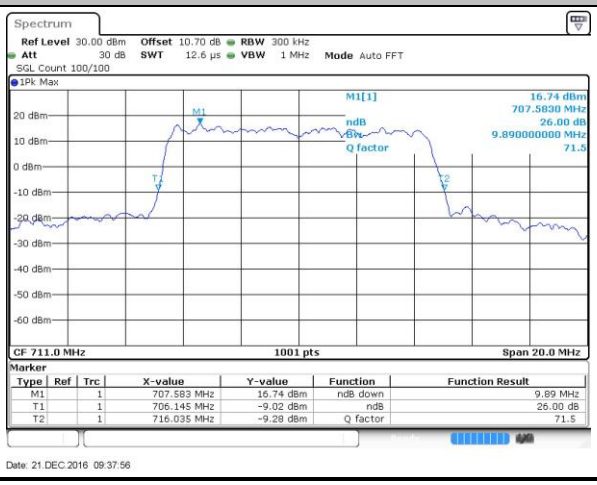
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

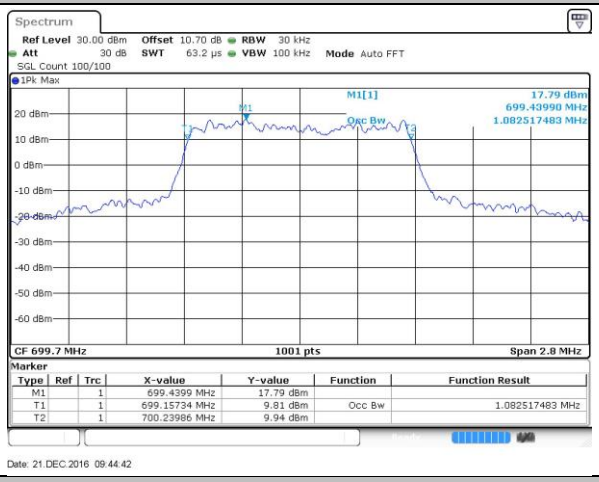


Occupied Bandwidth

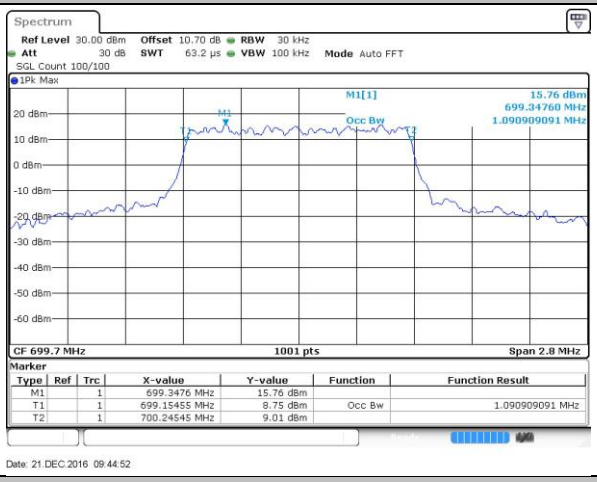
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.08	1.09	2.72	2.72	4.51	4.53	9.05	9.03	-	-	-	-
Middle CH	1.08	1.1	2.73	2.73	4.52	4.49	9.03	9.03	-	-	-	-
Highest CH	1.1	1.11	2.71	2.73	4.5	4.5	9.03	9.03	-	-	-	-

LTE Band 12

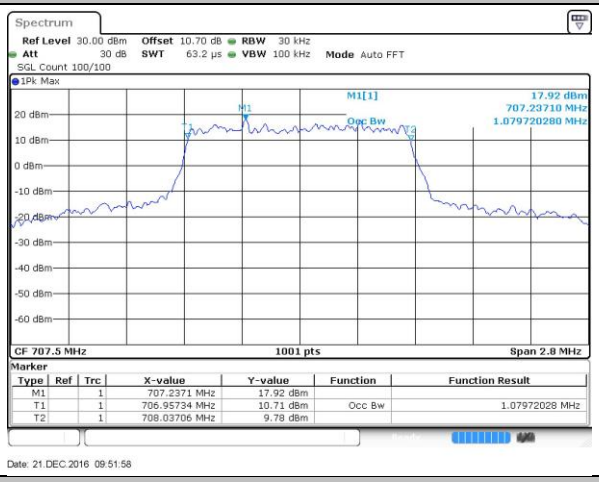
Lowest Channel / 1.4MHz / QPSK



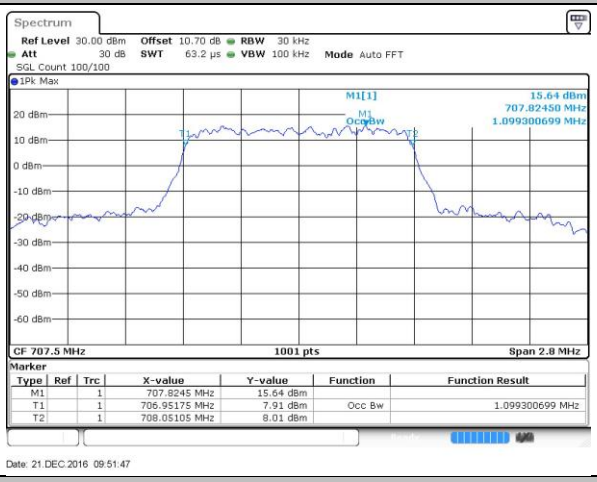
Lowest Channel / 1.4MHz / 16QAM



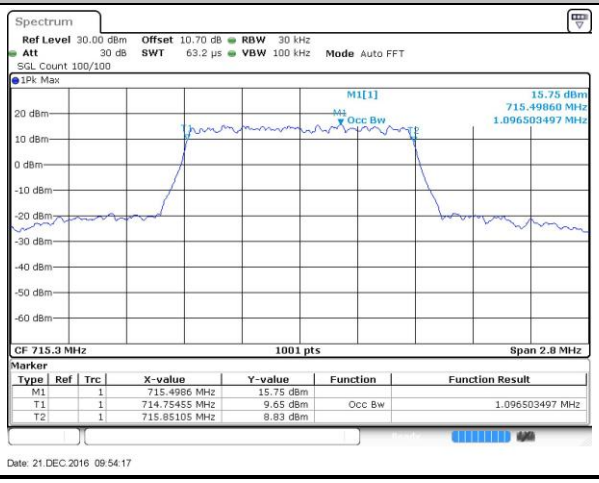
Middle Channel / 1.4MHz / QPSK



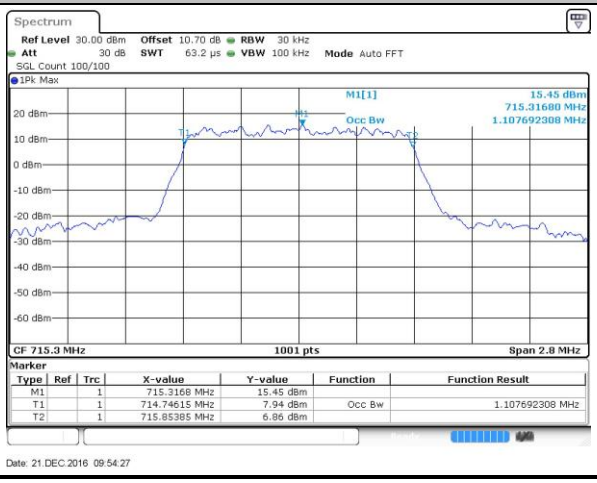
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

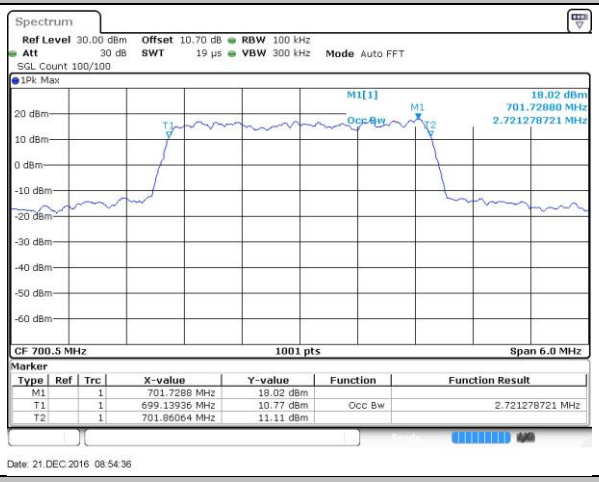


Highest Channel / 1.4MHz / 16QAM

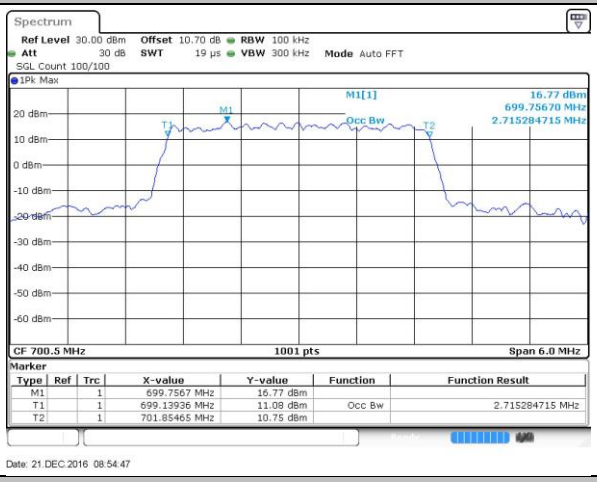


LTE Band 12

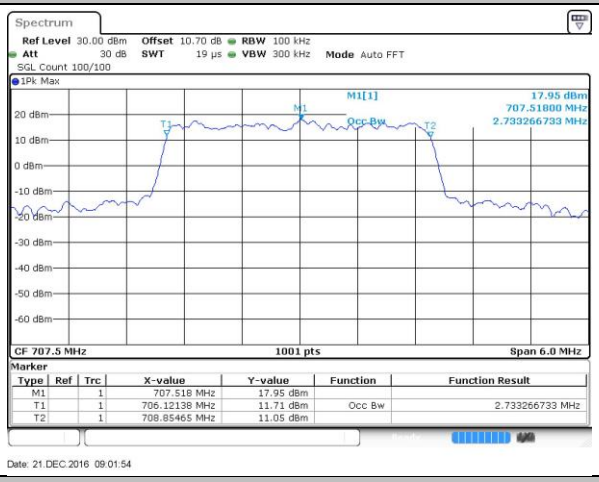
Lowest Channel / 3MHz / QPSK



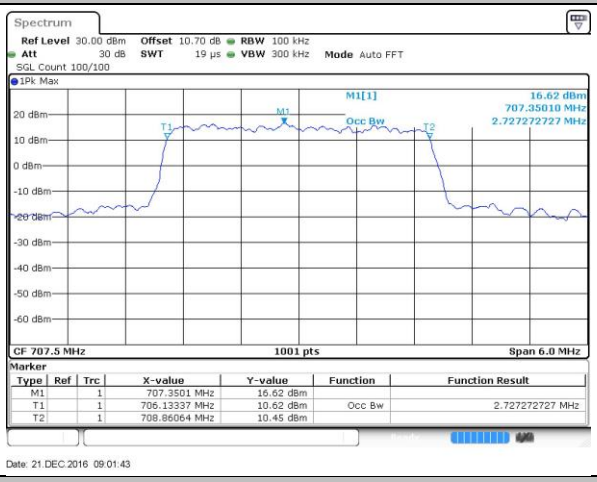
Lowest Channel / 3MHz / 16QAM



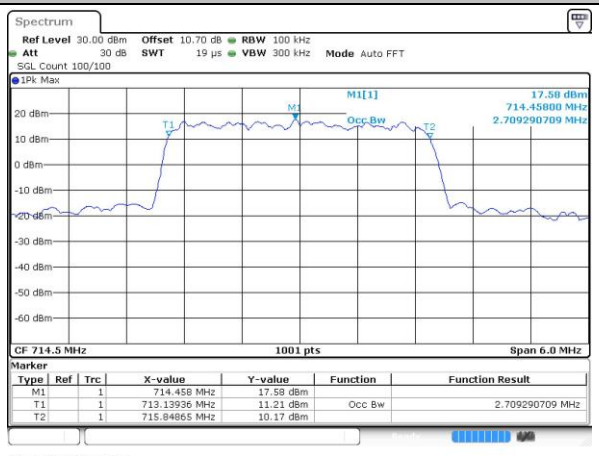
Middle Channel / 3MHz / QPSK



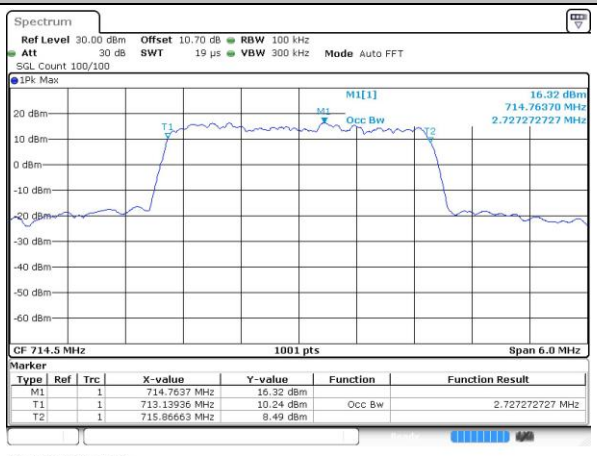
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

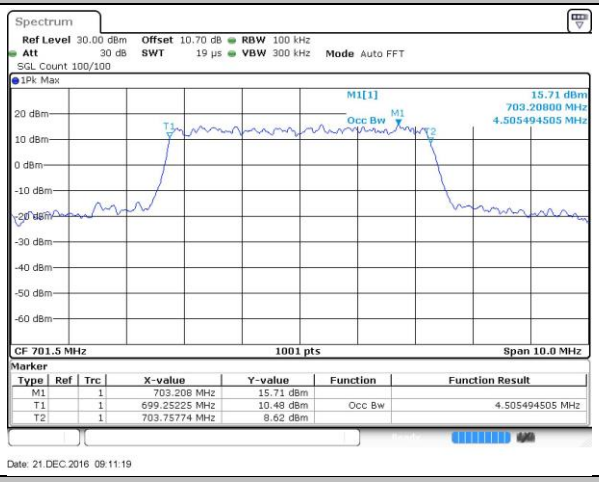


Highest Channel / 3MHz / 16QAM

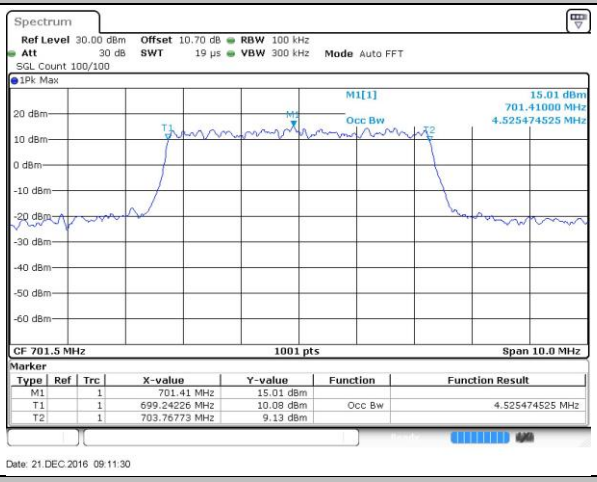


LTE Band 12

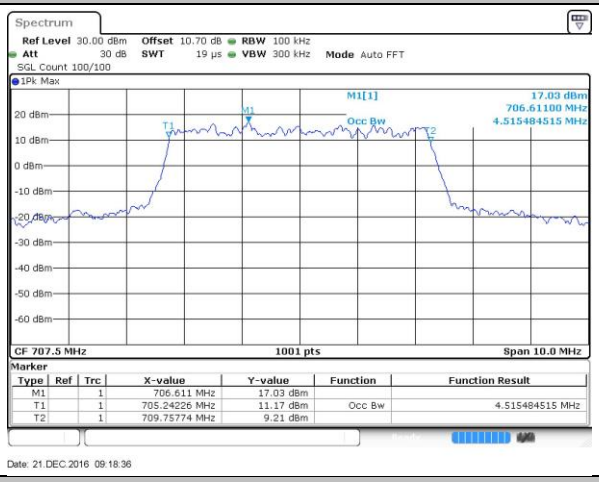
Lowest Channel / 5MHz / QPSK



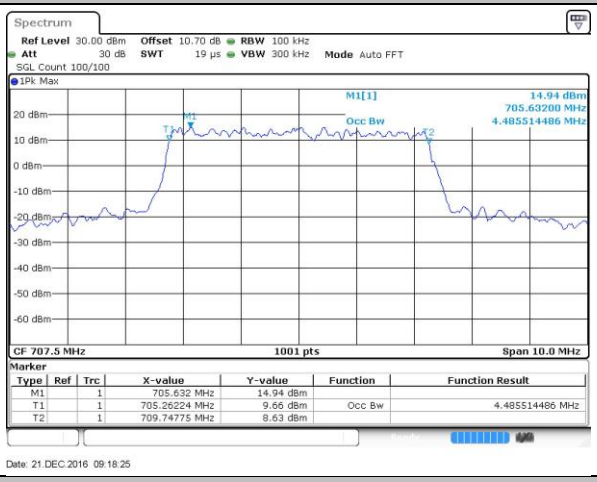
Lowest Channel / 5MHz / 16QAM



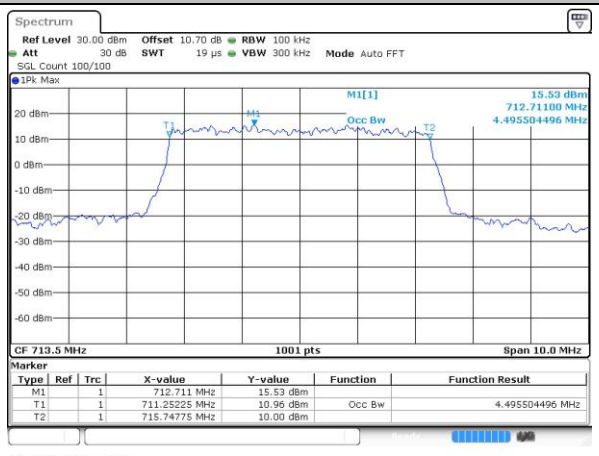
Middle Channel / 5MHz / QPSK



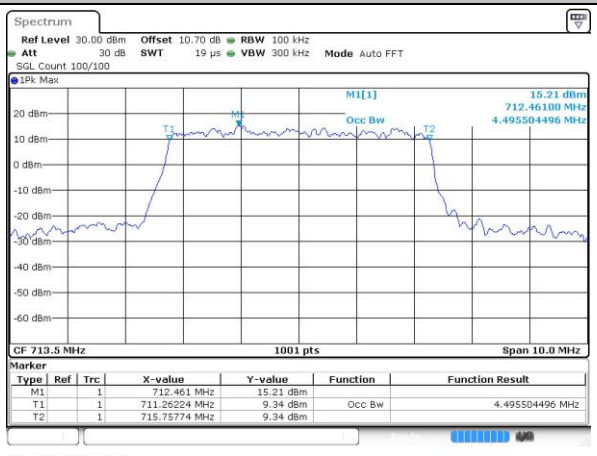
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

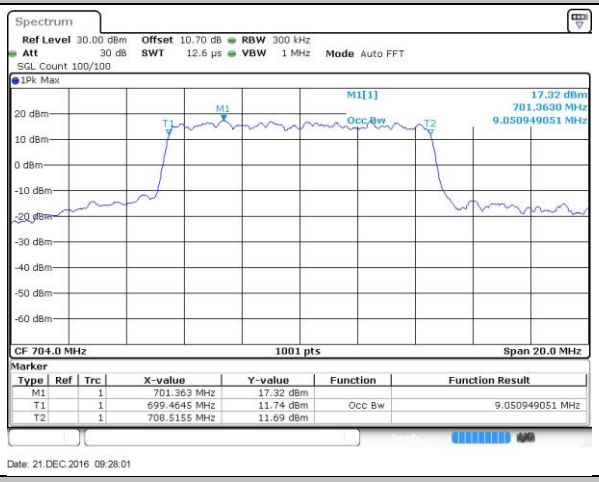


Highest Channel / 5MHz / 16QAM

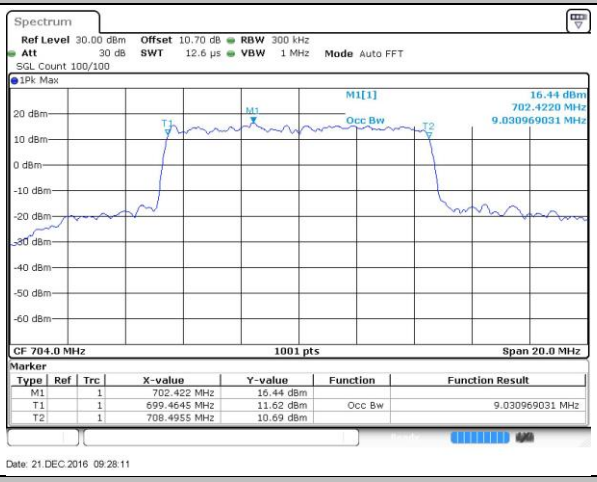


LTE Band 12

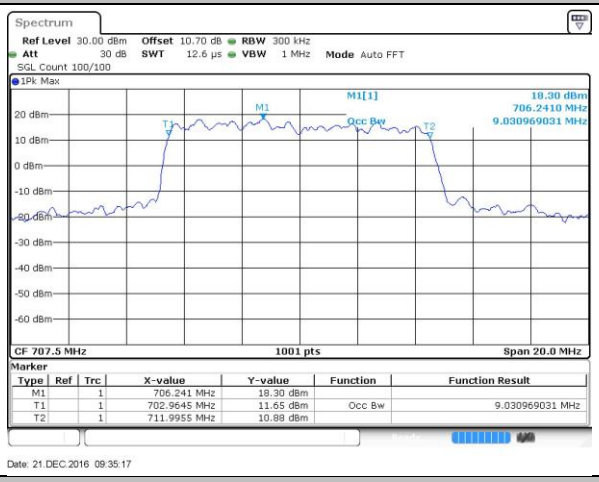
Lowest Channel / 10MHz / QPSK



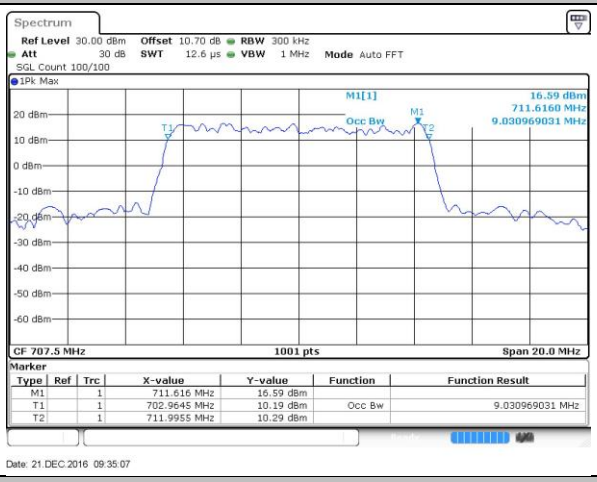
Lowest Channel / 10MHz / 16QAM



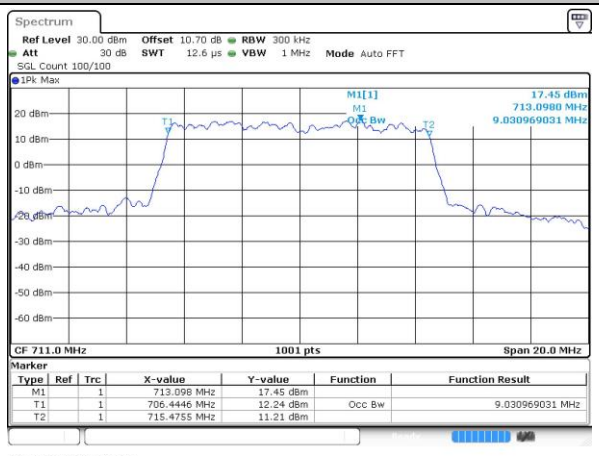
Middle Channel / 10MHz / QPSK



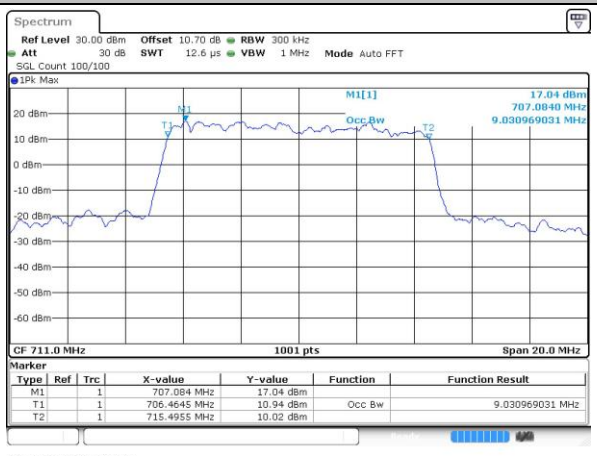
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



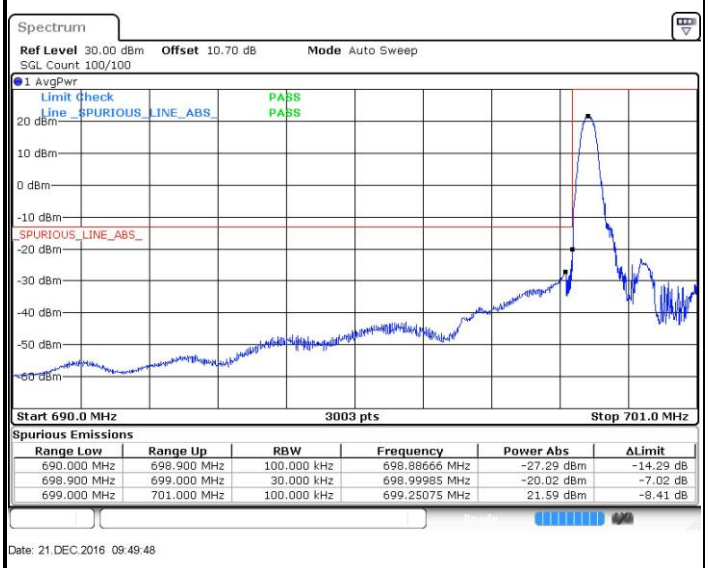
Highest Channel / 10MHz / 16QAM



Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1 RB

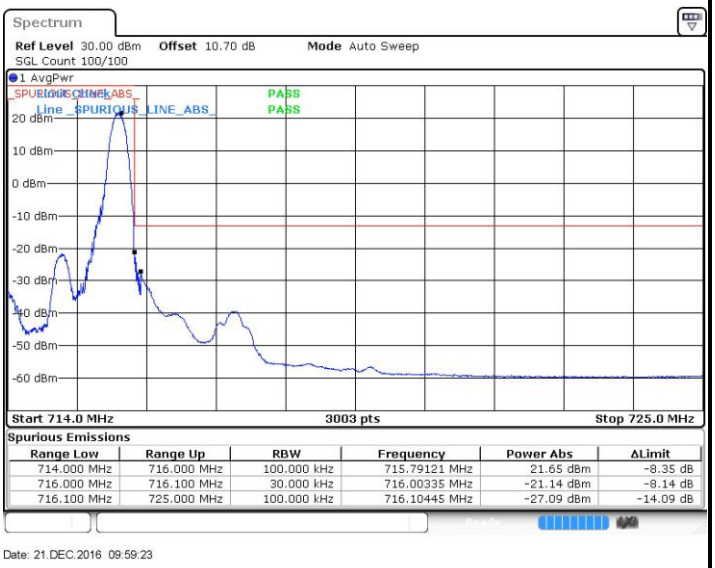


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-27.29 dBm	-14.29 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99985 MHz	-20.02 dBm	-7.02 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.25075 MHz	21.59 dBm	-8.41 dB

Date: 21.DEC.2016 09:49:48

Highest Band Edge / 1RB

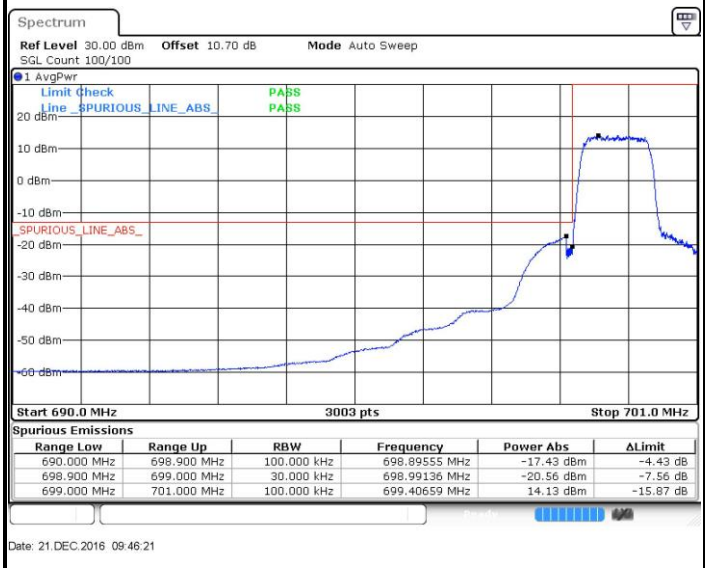


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.79121 MHz	21.65 dBm	-8.35 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00335 MHz	-21.14 dBm	-8.14 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-27.09 dBm	-14.09 dB

Date: 21.DEC.2016 09:59:23

Lowest Band Edge / Full RB

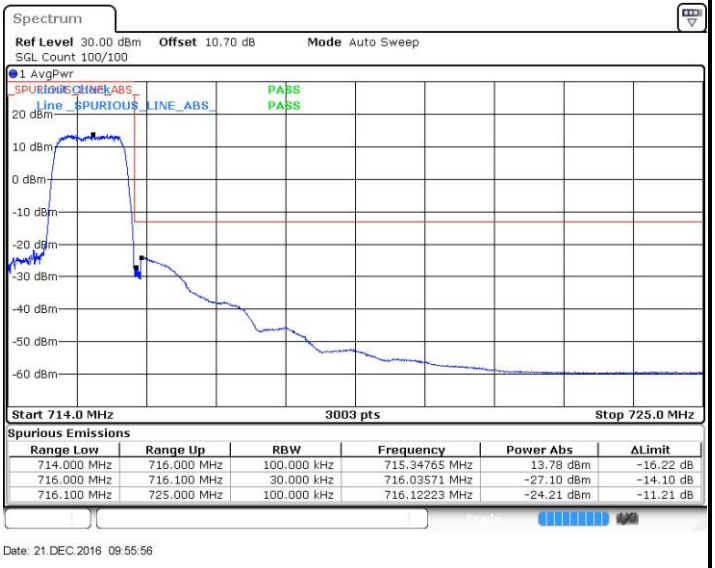


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-17.43 dBm	-4.43 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99136 MHz	-20.56 dBm	-7.56 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.40659 MHz	14.13 dBm	-15.87 dB

Date: 21.DEC.2016 09:46:21

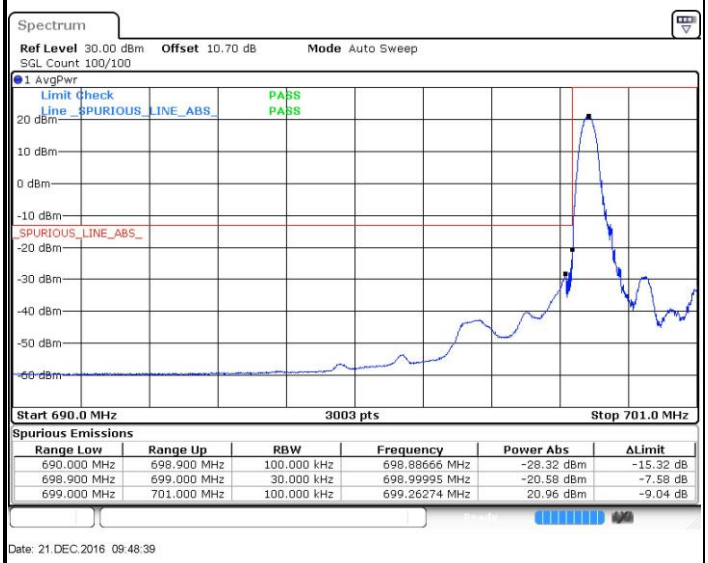
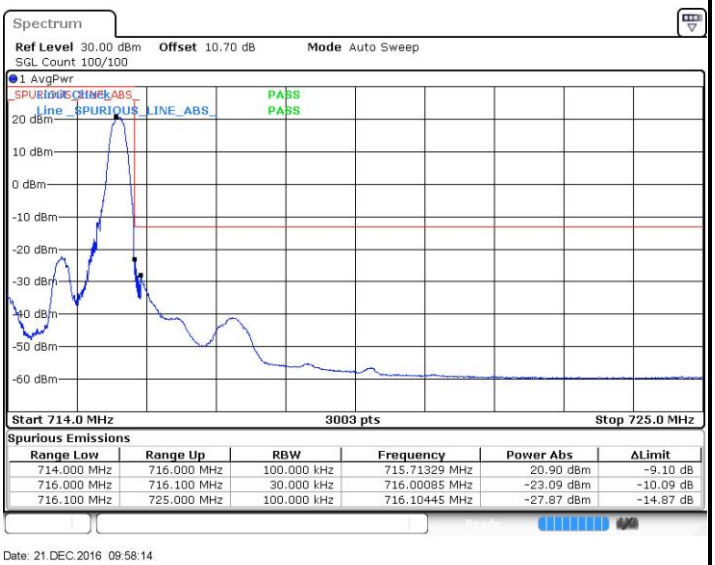
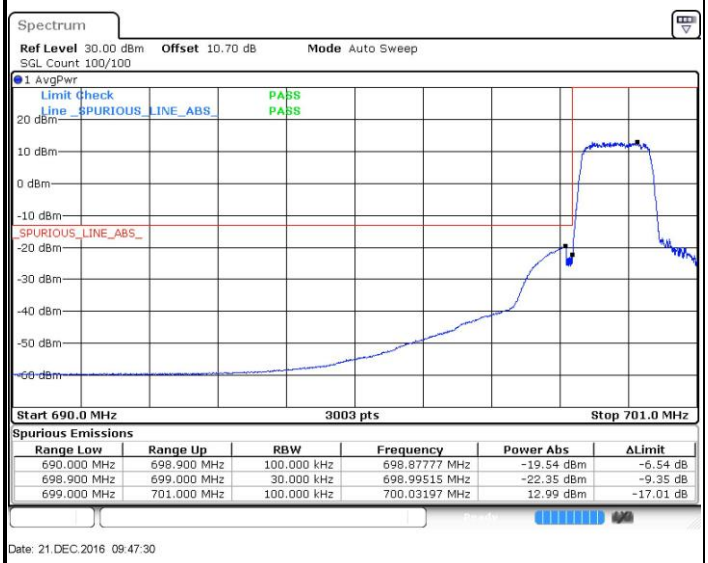
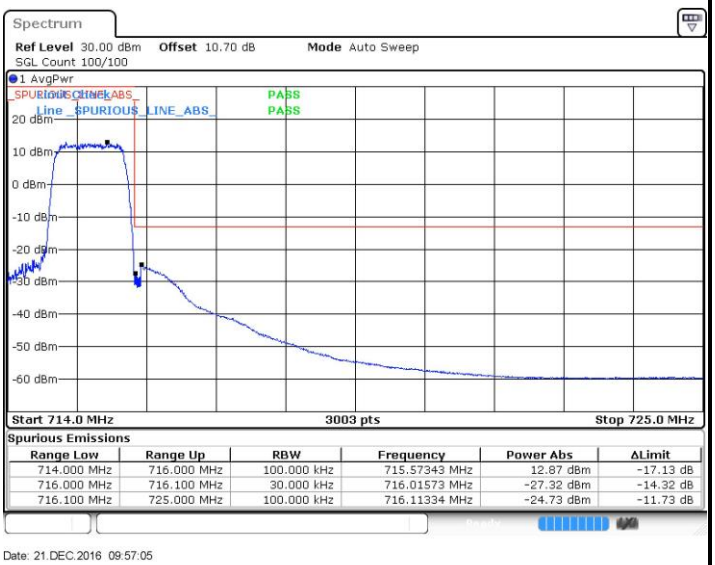
Highest Band Edge / Full RB

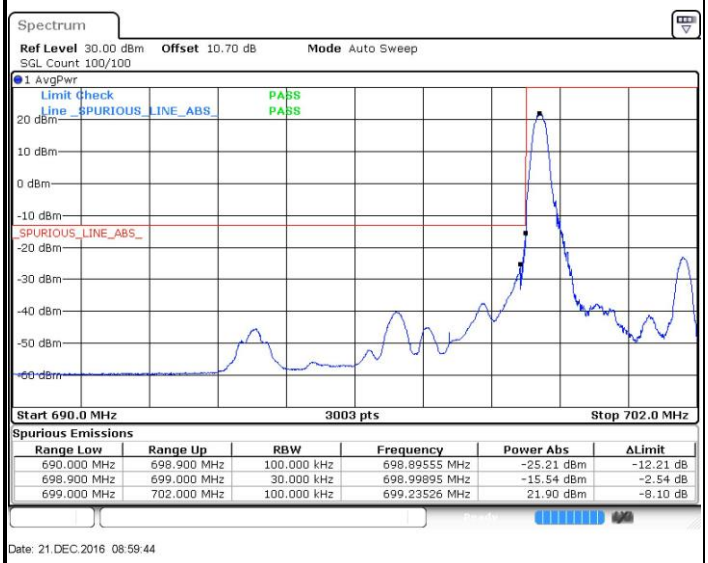
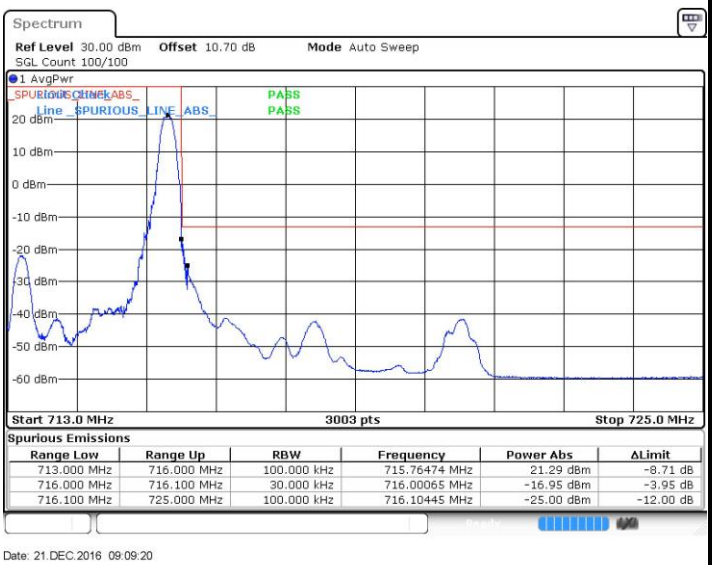
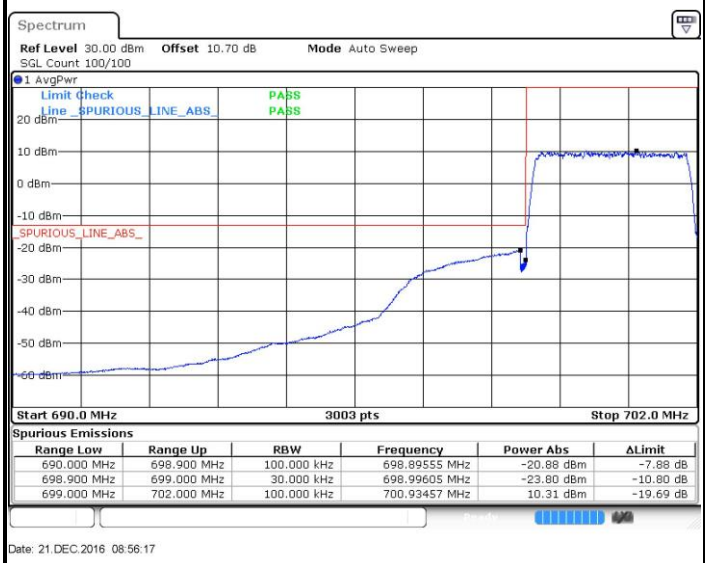
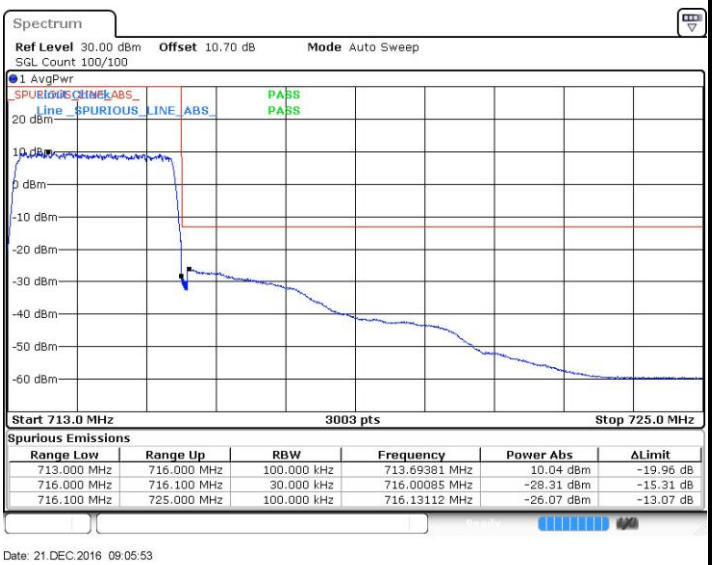


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.34765 MHz	13.78 dBm	-16.22 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.03571 MHz	-27.10 dBm	-14.10 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.12223 MHz	-24.21 dBm	-11.21 dB

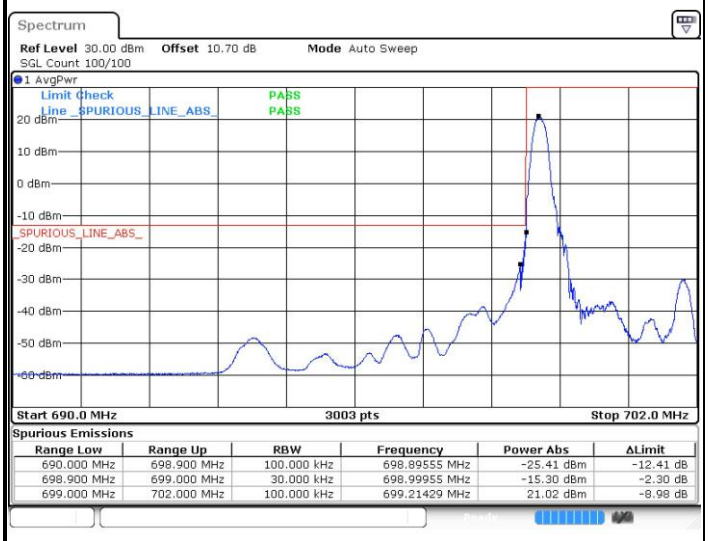
Date: 21.DEC.2016 09:55:56

LTE Band 12 / 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 12 / 3MHz / QPSK	
Lowest Band Edge / 1RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

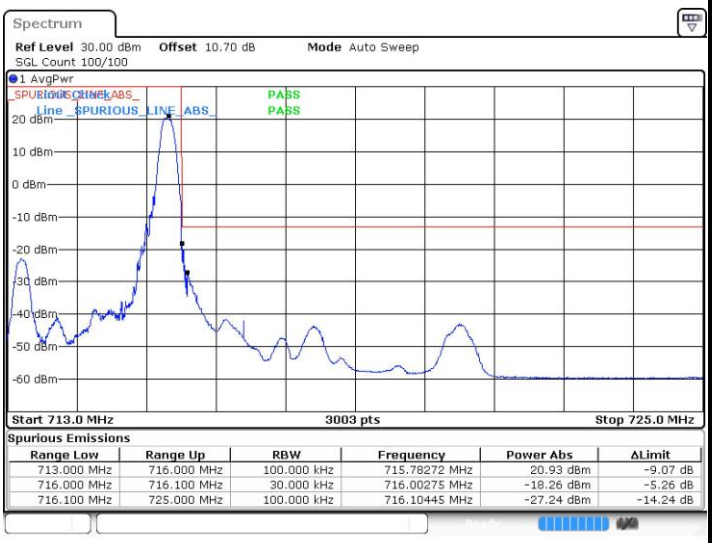
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



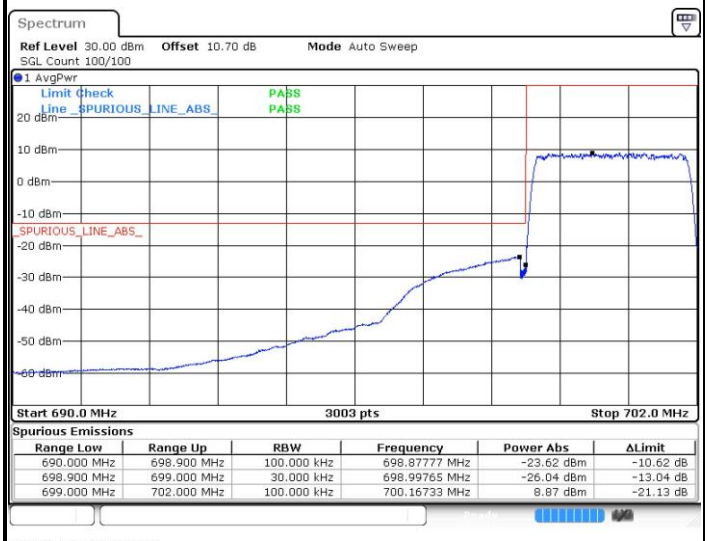
Date: 21.DEC.2016 08:58:35

Highest Band Edge / 1 RB



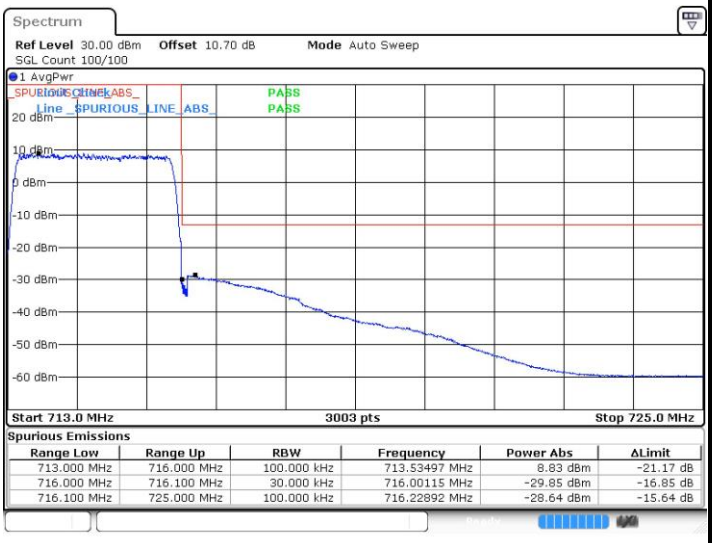
Date: 21.DEC.2016 09:08:11

Lowest Band Edge / Full RB

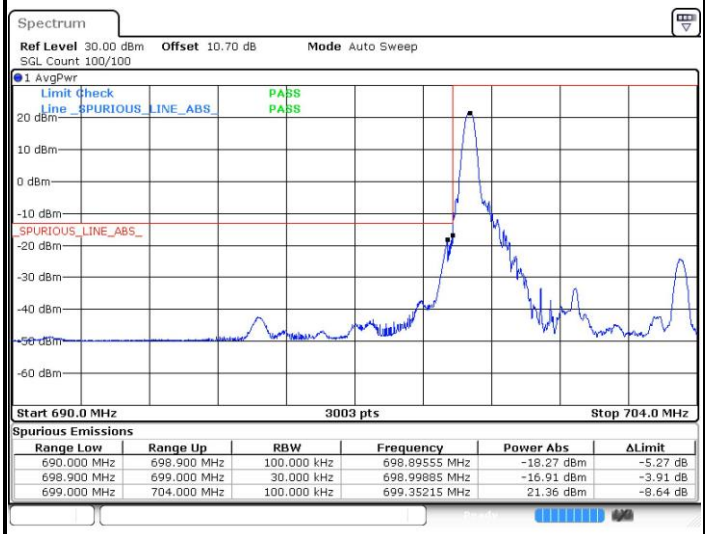
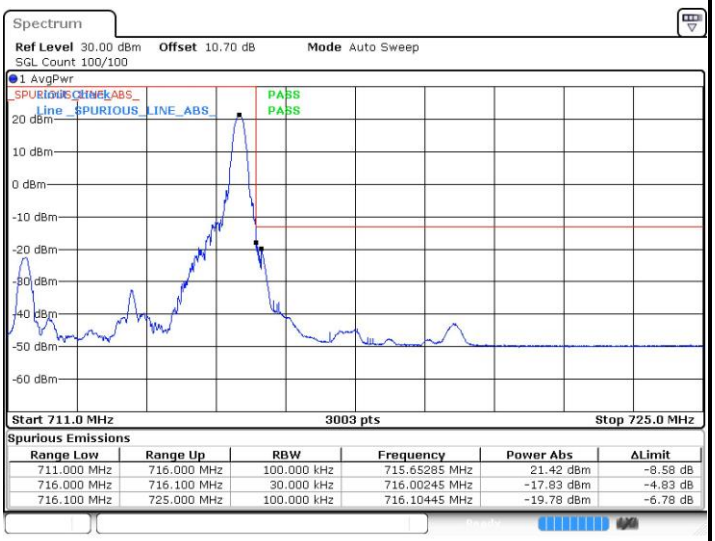
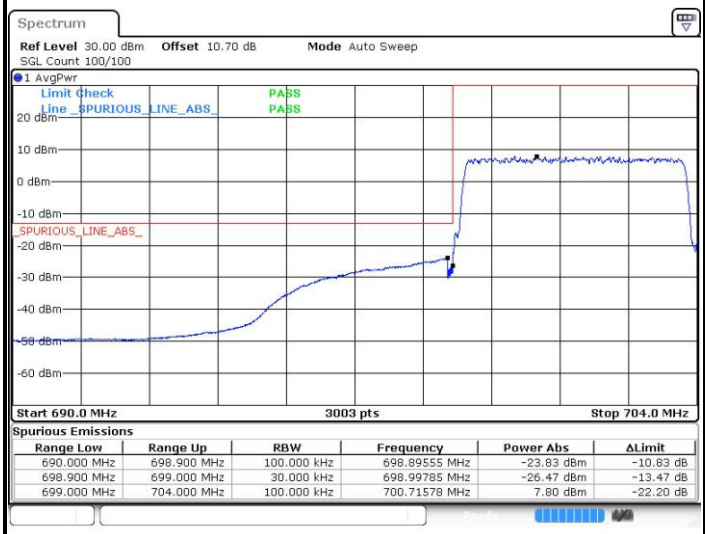
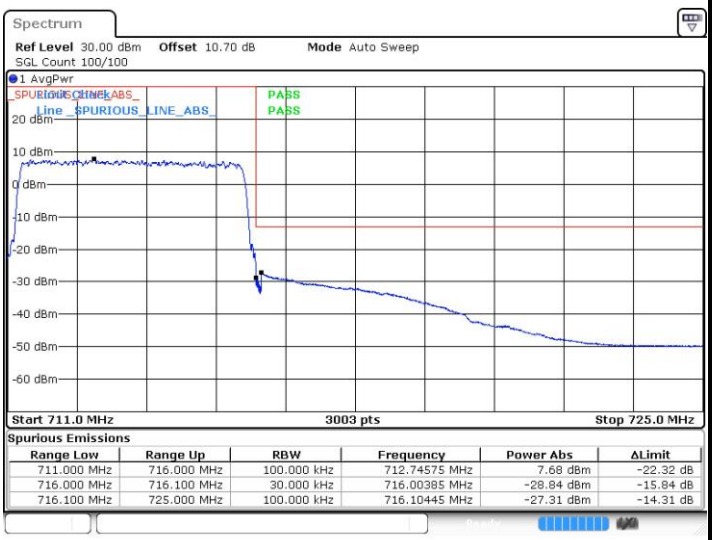


Date: 21.DEC.2016 08:57:26

Highest Band Edge / Full RB

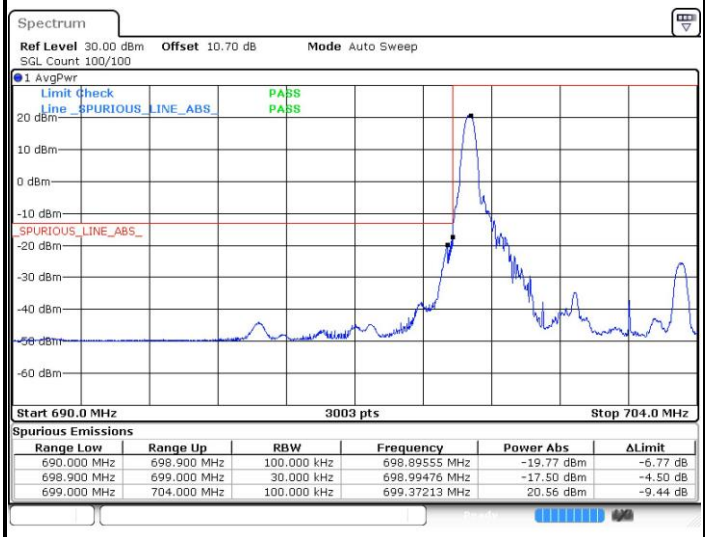


Date: 21.DEC.2016 09:07:02

LTE Band 12 / 5MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB

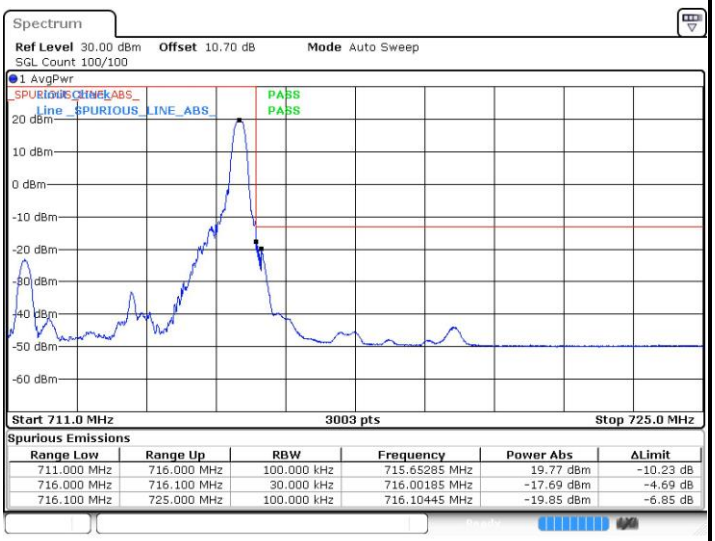


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-19.77 dBm	-6.77 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99476 MHz	-17.50 dBm	-4.50 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.37213 MHz	20.56 dBm	-9.44 dB

Date: 21.DEC.2016 09:15:17

Highest Band Edge / 1 RB

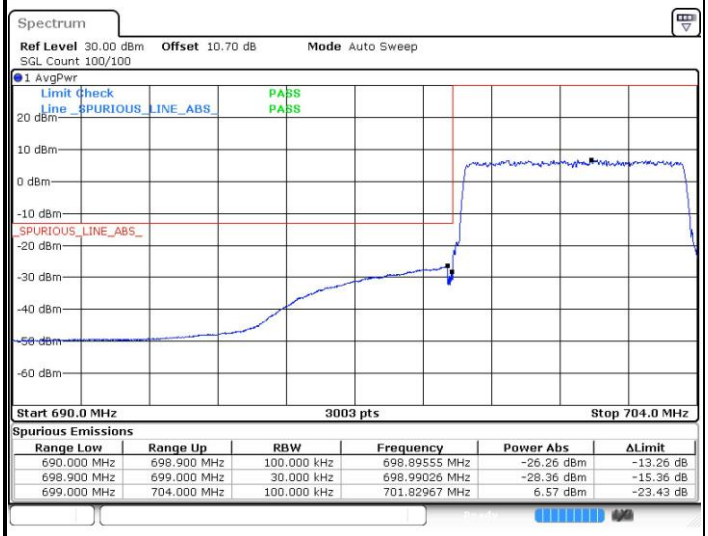


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.65285 MHz	19.77 dBm	-10.23 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00185 MHz	-17.69 dBm	-4.69 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-19.85 dBm	-6.85 dB

Date: 21.DEC.2016 09:26:01

Lowest Band Edge / Full RB

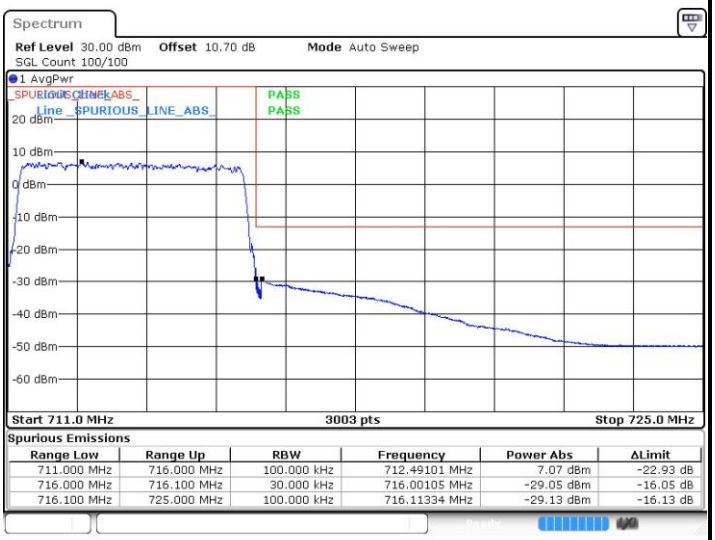


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-26.26 dBm	-13.26 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99026 MHz	-28.36 dBm	-15.36 dB
699.000 MHz	704.000 MHz	100.000 kHz	701.82967 MHz	6.57 dBm	-23.43 dB

Date: 21.DEC.2016 09:14:08

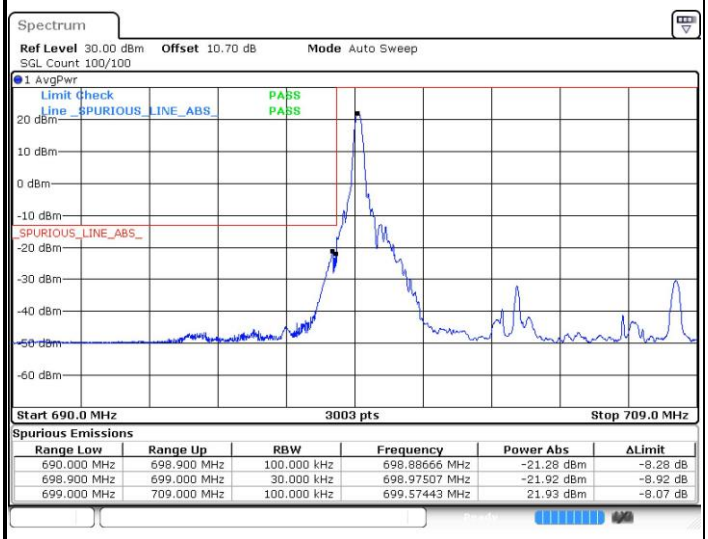
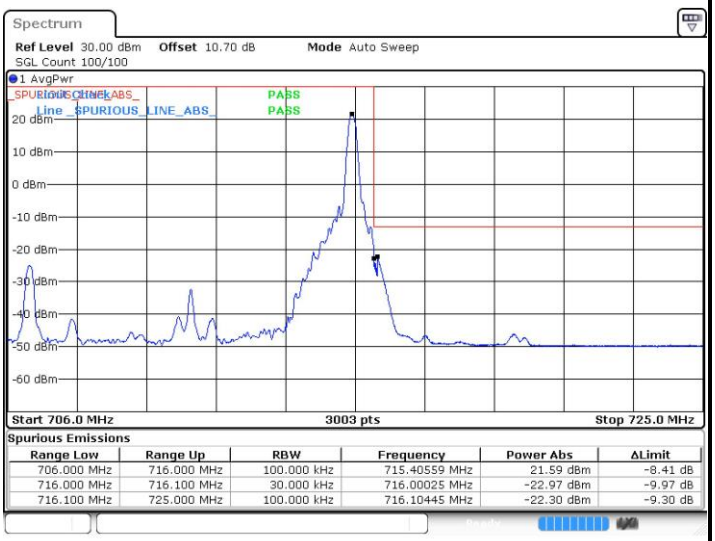
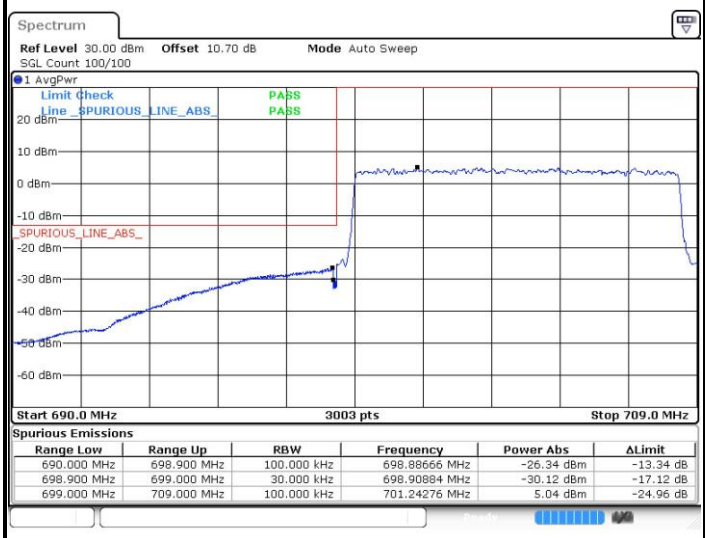
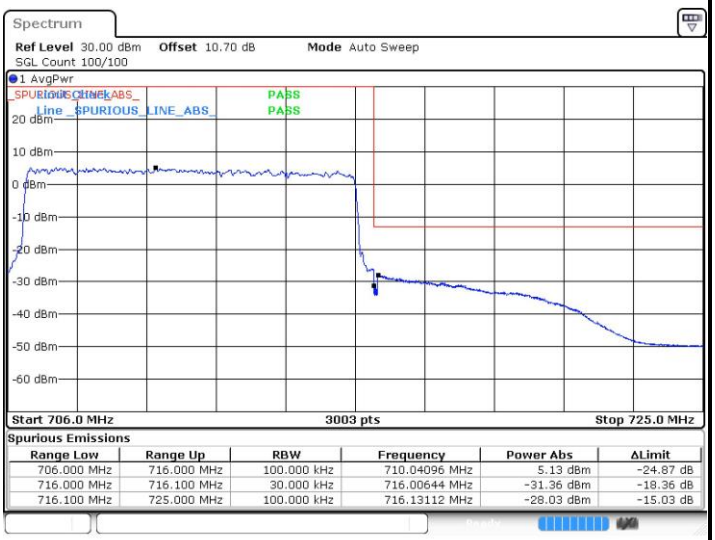
Highest Band Edge / Full RB

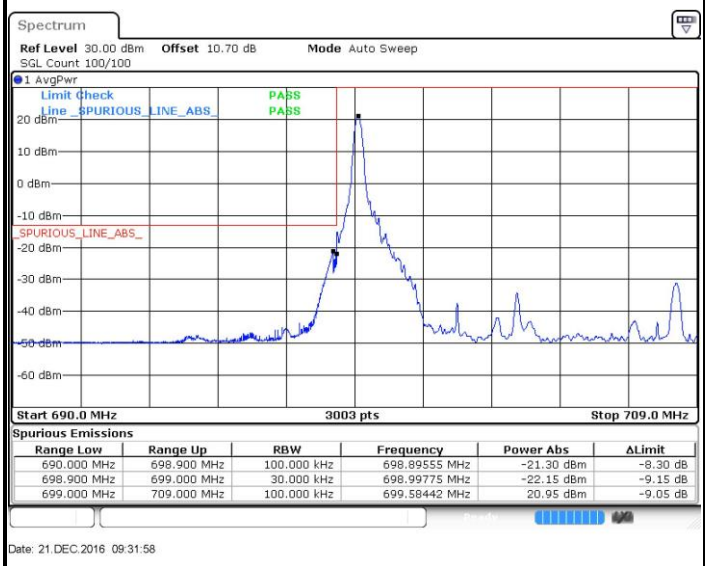
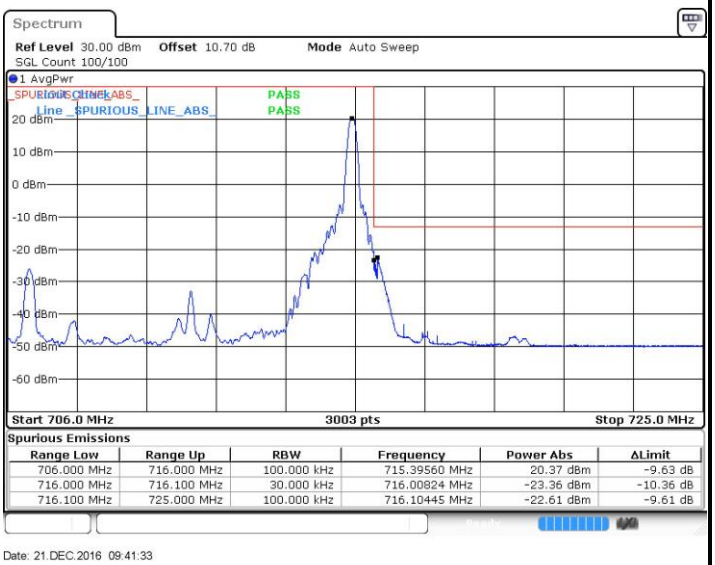
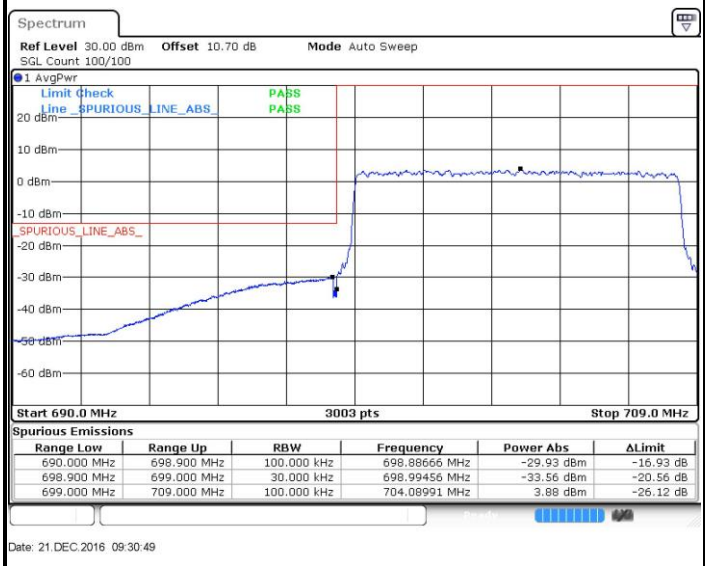
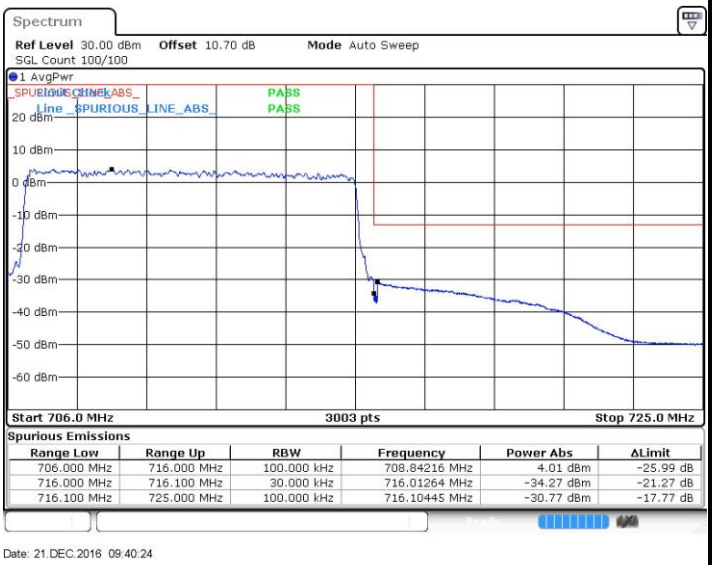


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	712.49101 MHz	7.07 dBm	-22.93 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00105 MHz	-29.05 dBm	-16.05 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-29.13 dBm	-16.13 dB

Date: 21.DEC.2016 09:23:43

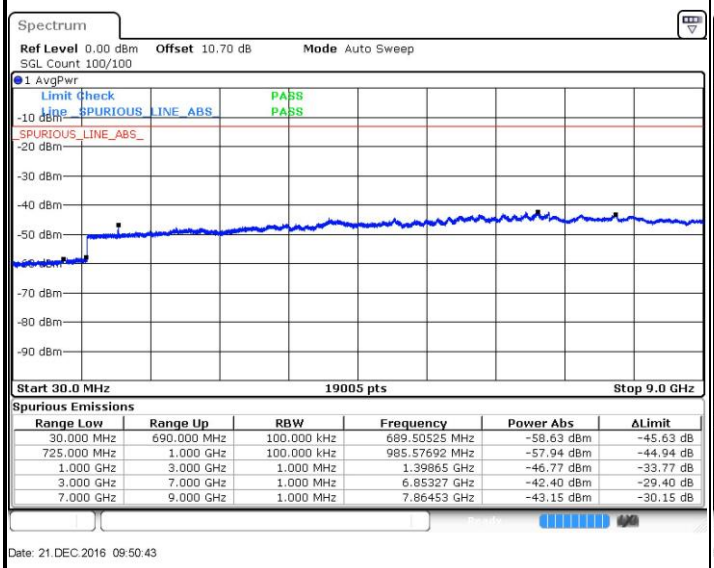
LTE Band 12 / 10MHz / QPSK	
Lowest Band Edge / 1 RB	**Highest Band Edge / 1 RB**
	
Lowest Band Edge / Full RB	**Highest Band Edge / Full RB**
	

LTE Band 12 / 10MHz / 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 12 / 1.4MHz

Lowest Channel / QPSK

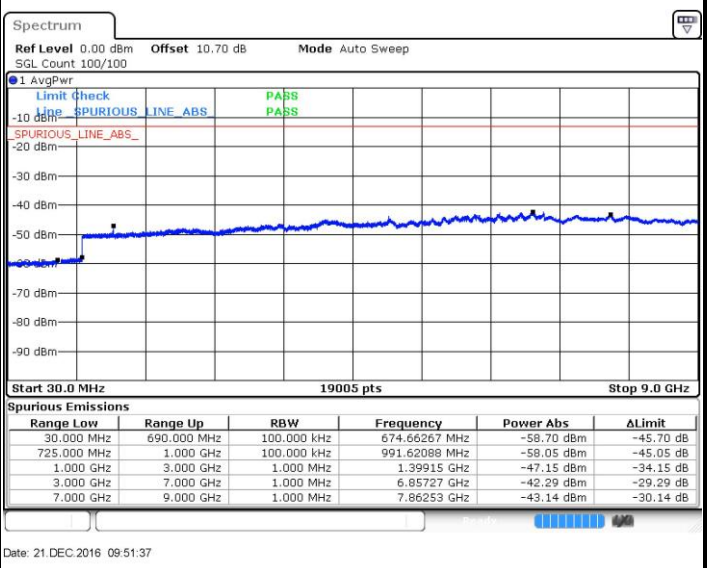


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.50525 MHz	-58.63 dBm	-45.63 dB
725.000 MHz	1.000 GHz	100.000 kHz	985.57692 MHz	-57.94 dBm	-44.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-46.77 dBm	-33.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85327 GHz	-42.40 dBm	-29.40 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86453 GHz	-43.15 dBm	-30.15 dB

Date: 21.DEC.2016 09:50:43

Lowest Channel / 16QAM

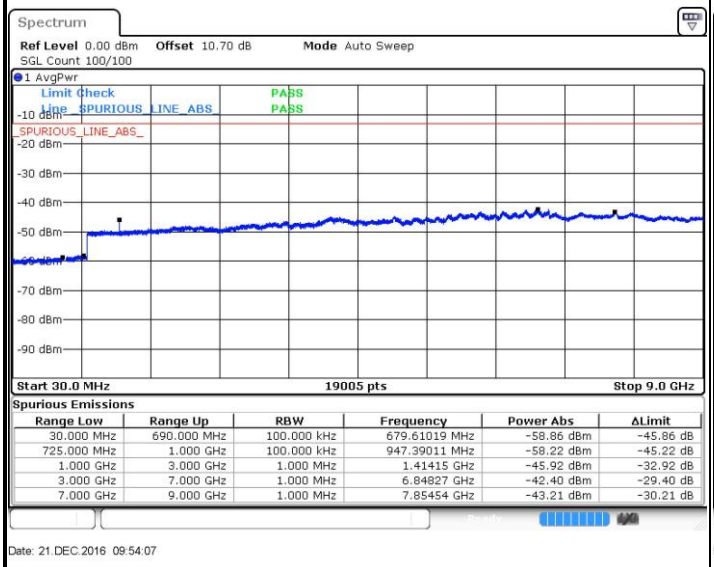


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	674.66267 MHz	-58.70 dBm	-45.70 dB
725.000 MHz	1.000 GHz	100.000 kHz	991.62088 MHz	-58.05 dBm	-45.05 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-47.15 dBm	-34.15 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85727 GHz	-42.29 dBm	-29.29 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86253 GHz	-43.14 dBm	-30.14 dB

Date: 21.DEC.2016 09:51:37

Middle Channel / QPSK

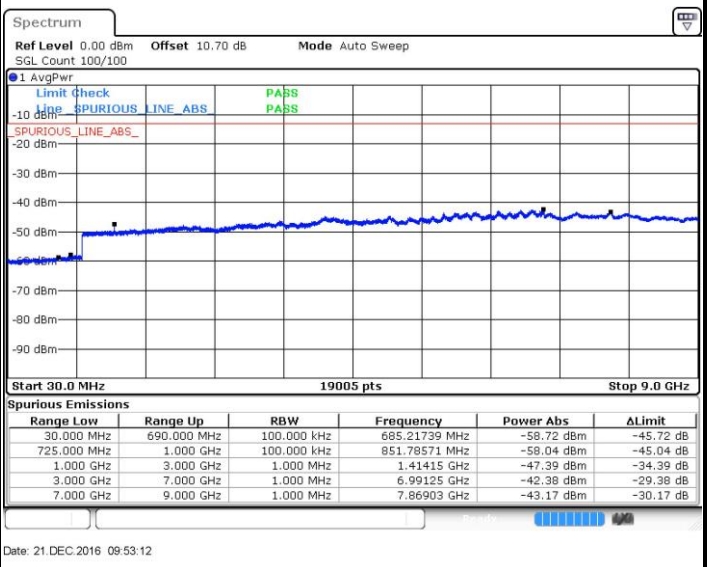


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	679.61019 MHz	-58.86 dBm	-45.86 dB
725.000 MHz	1.000 GHz	100.000 kHz	947.39011 MHz	-58.22 dBm	-45.22 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41415 GHz	-45.92 dBm	-32.92 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.84827 GHz	-42.40 dBm	-29.40 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85454 GHz	-43.21 dBm	-30.21 dB

Date: 21.DEC.2016 09:54:07

Middle Channel / 16QAM



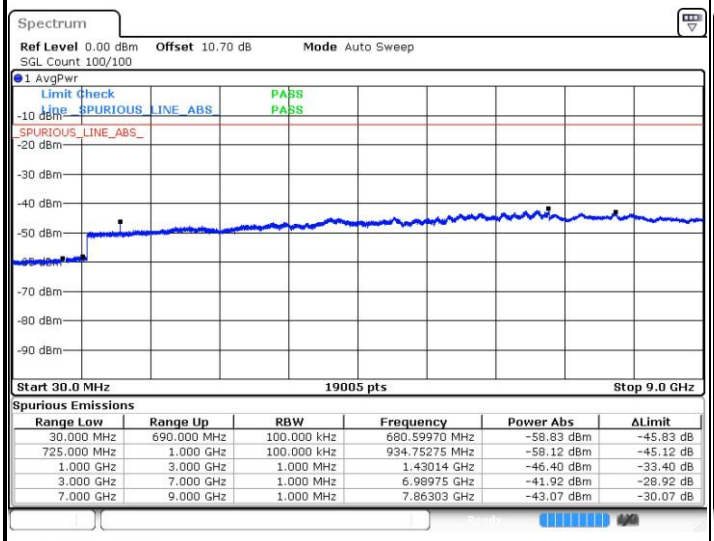
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	685.21739 MHz	-58.72 dBm	-45.72 dB
725.000 MHz	1.000 GHz	100.000 kHz	851.78571 MHz	-58.04 dBm	-45.04 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41415 GHz	-47.39 dBm	-34.39 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99125 GHz	-42.38 dBm	-29.38 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86903 GHz	-43.17 dBm	-30.17 dB

Date: 21.DEC.2016 09:53:12

LTE Band 12 / 1.4MHz

Highest Channel / QPSK

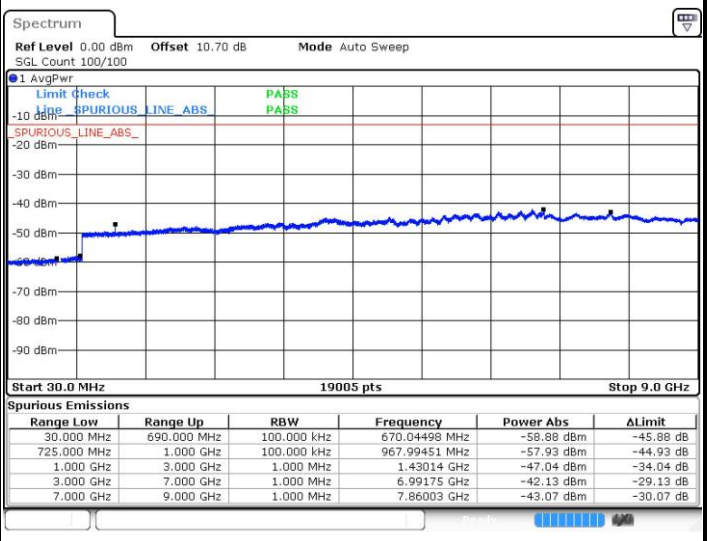


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	680.59970 MHz	-58.83 dBm	-45.83 dB
725.000 MHz	1.000 GHz	100.000 kHz	934.75275 MHz	-58.12 dBm	-45.12 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-46.40 dBm	-33.40 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98975 GHz	-41.92 dBm	-28.92 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86303 GHz	-43.07 dBm	-30.07 dB

Date: 21.DEC.2016 10:00:18

Highest Channel / 16QAM



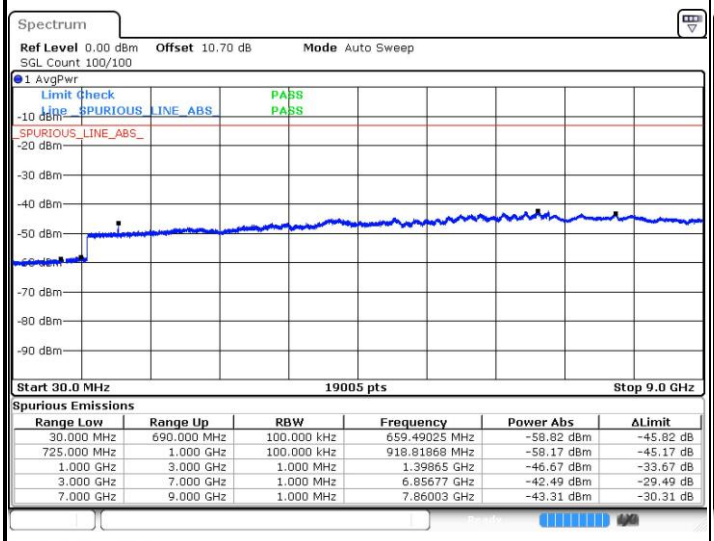
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	670.04498 MHz	-58.88 dBm	-45.88 dB
725.000 MHz	1.000 GHz	100.000 kHz	967.99451 MHz	-57.93 dBm	-44.93 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-47.04 dBm	-34.04 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99175 GHz	-42.13 dBm	-29.13 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86003 GHz	-43.07 dBm	-30.07 dB

Date: 21.DEC.2016 10:01:12

LTE Band 12 / 3MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	659.49025 MHz	-58.82 dBm	-45.82 dB
725.000 MHz	1.000 GHz	100.000 kHz	918.81868 MHz	-58.17 dBm	-45.17 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-46.67 dBm	-33.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85677 GHz	-42.49 dBm	-29.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86003 GHz	-43.31 dBm	-30.31 dB

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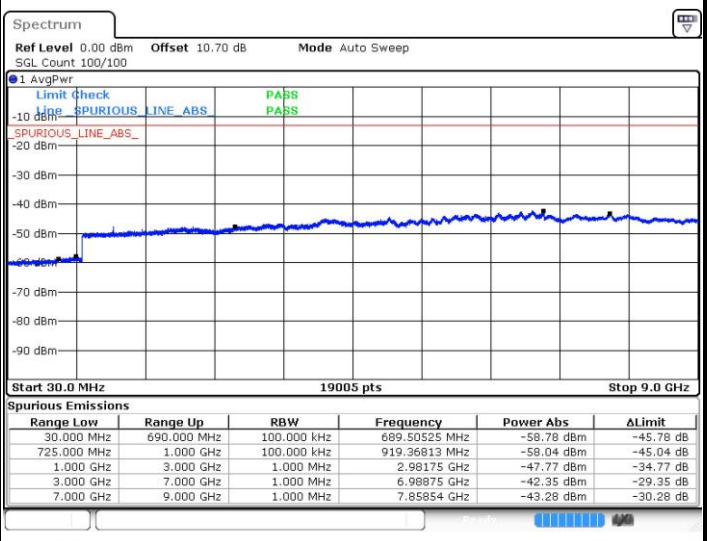
Lowest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.50525 MHz	-58.78 dBm	-45.78 dB
725.000 MHz	1.000 GHz	100.000 kHz	919.36813 MHz	-58.04 dBm	-45.04 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98175 GHz	-47.77 dBm	-34.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98875 GHz	-42.35 dBm	-29.35 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85854 GHz	-43.28 dBm	-30.28 dB

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