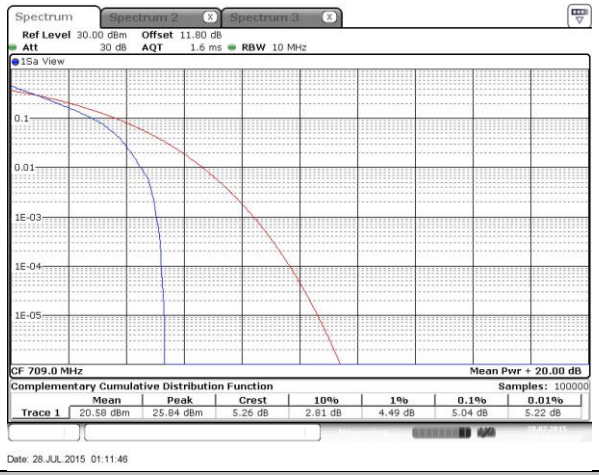
LTE Band 17

Peak-to-Average Ratio

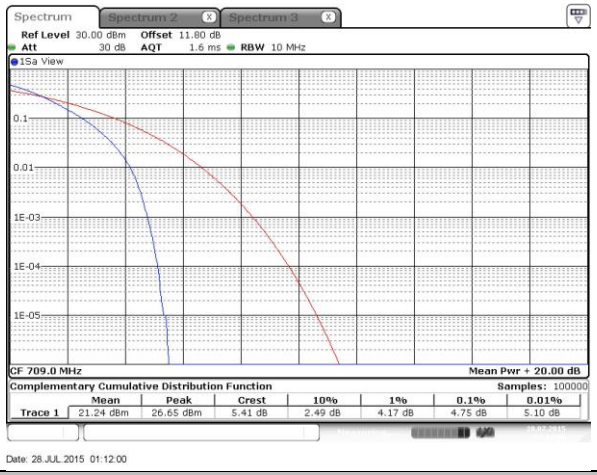
Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.04	4.75	5.59	5.80	PASS
Middle CH	5.28	4.87	6.17	5.77	
Highest CH	5.13	4.87	6.38	5.74	

LTE Band 17 / 10MHz / QPSK

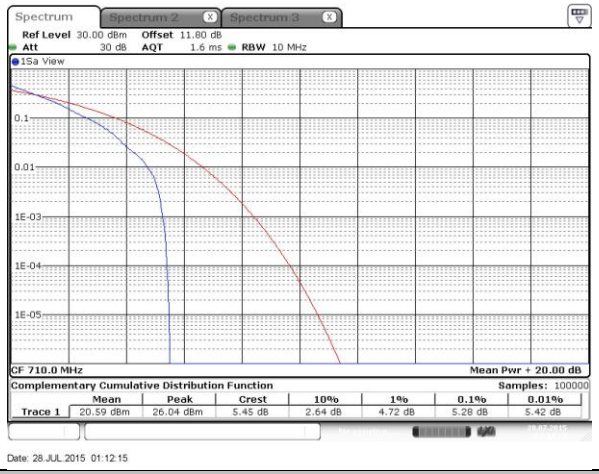
Lowest Channel / 1RB



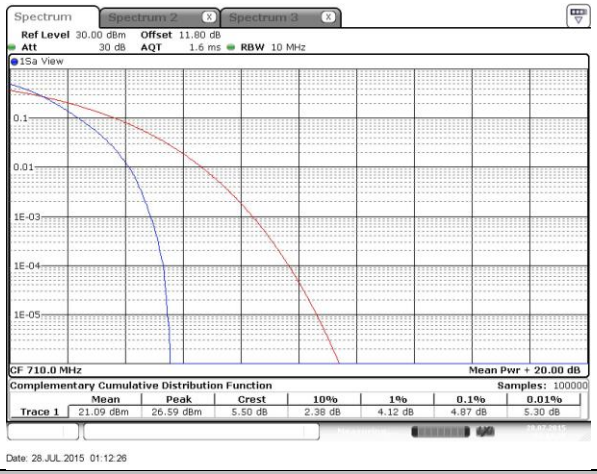
Lowest Channel / Full RB



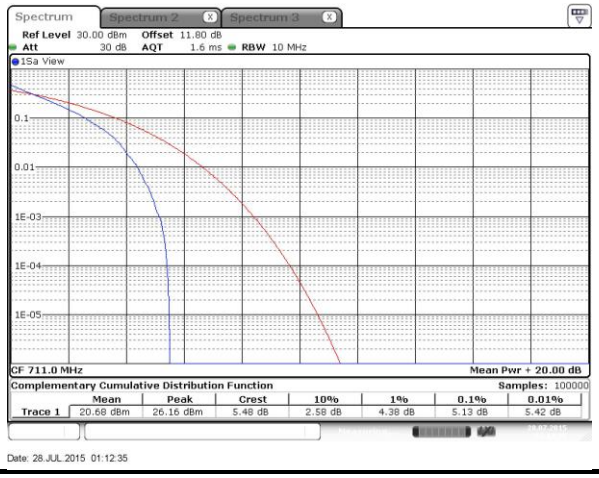
Middle Channel/ 1RB



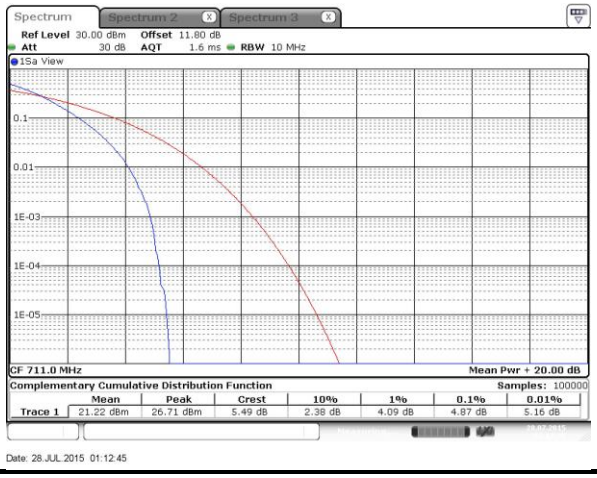
Middle Channel / Full RB



Highest Channel/ 1RB

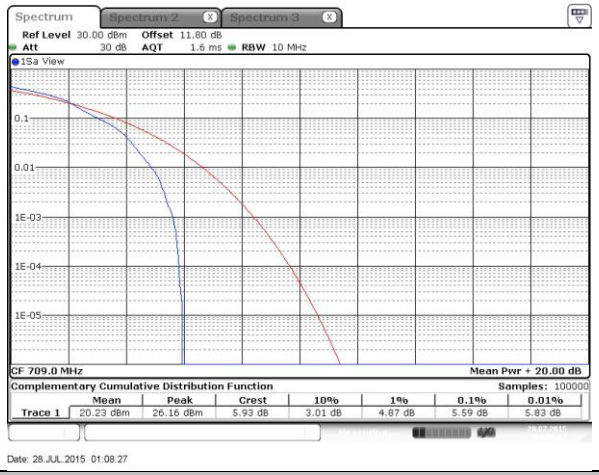


Highest Channel / Full RB

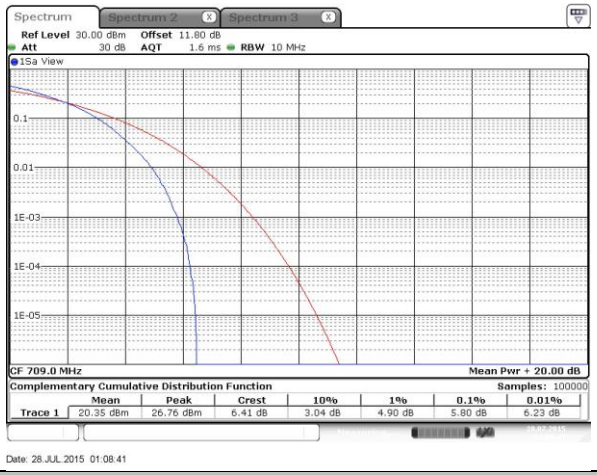


LTE Band 17 / 10MHz / 16QAM

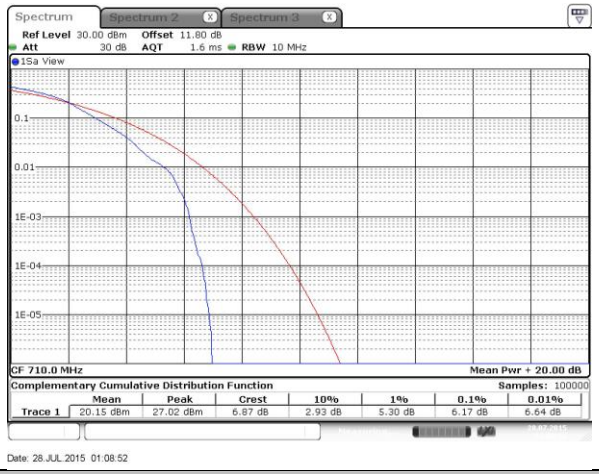
Lowest Channel / 1RB



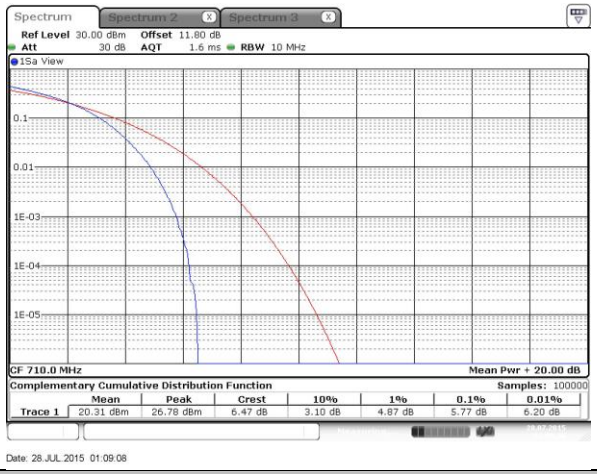
Lowest Channel / Full RB



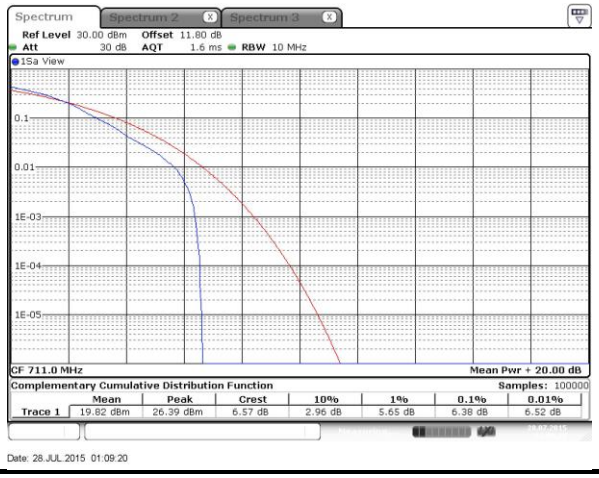
Middle Channel/ 1RB



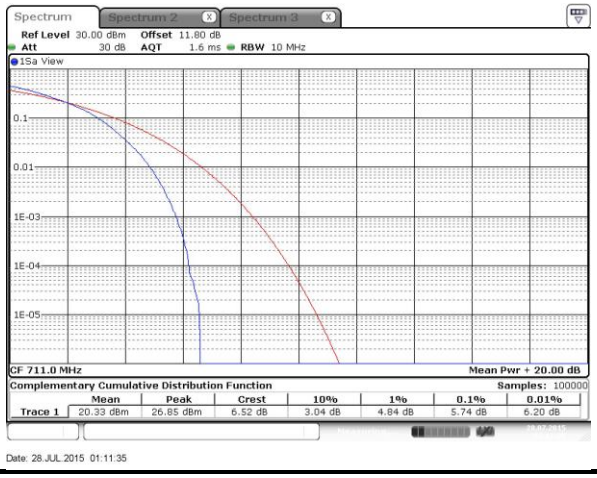
Middle Channel / Full RB



Highest Channel/ 1RB



Highest Channel / Full RB

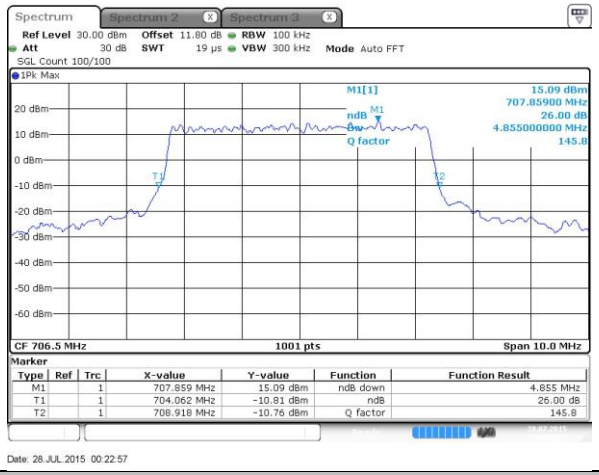


26dB Bandwidth

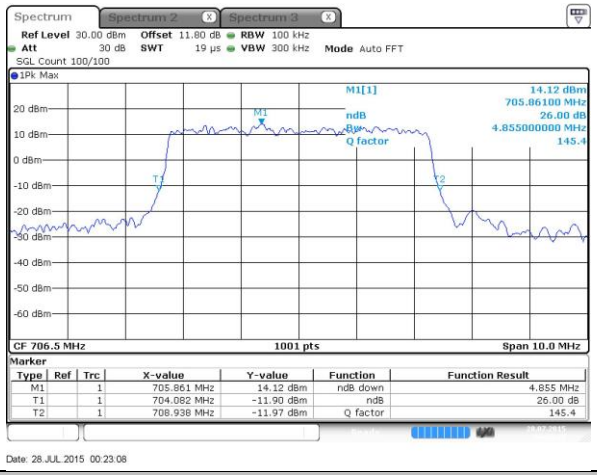
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.86	4.86	10.19	10.11	-	-	-	-
Middle CH	-	-	-	-	4.99	4.95	9.97	9.81	-	-	-	-
Highest CH	-	-	-	-	4.92	5.00	9.87	10.05	-	-	-	-

LTE Band 17

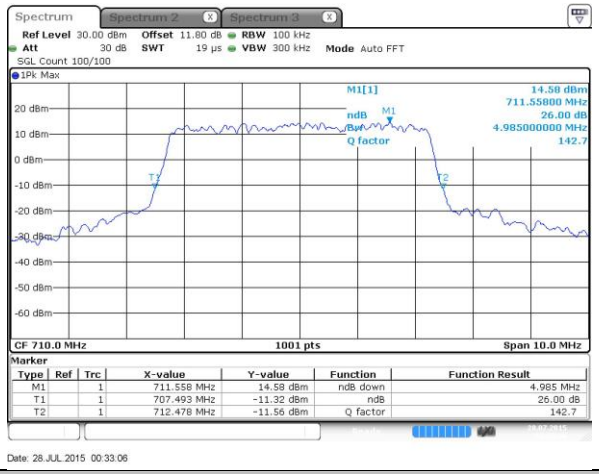
Lowest Channel / 5MHz / QPSK



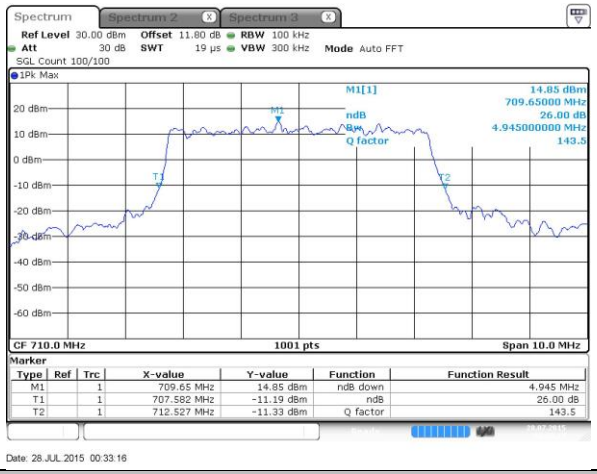
Lowest Channel / 5MHz / 16QAM



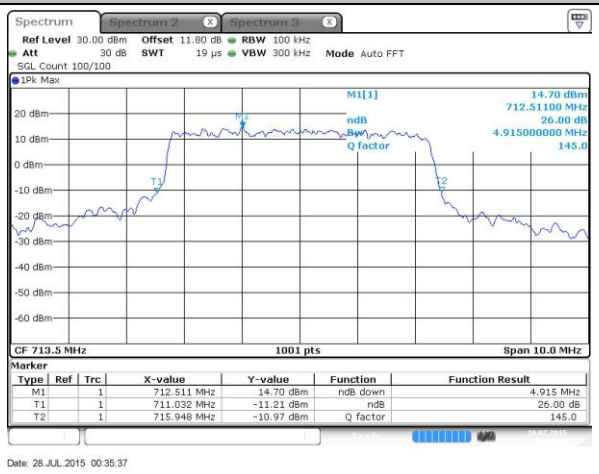
Middle Channel / 5MHz / QPSK



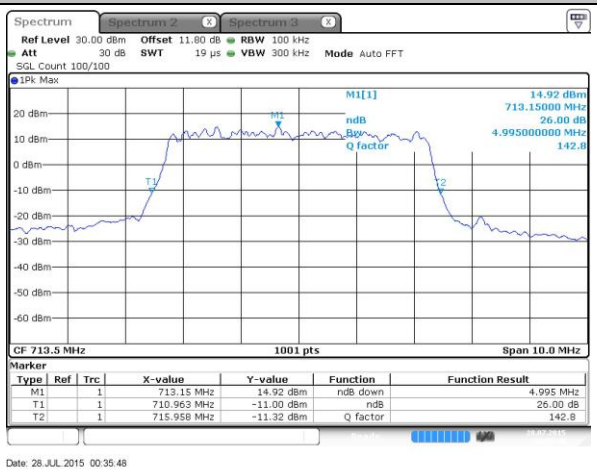
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

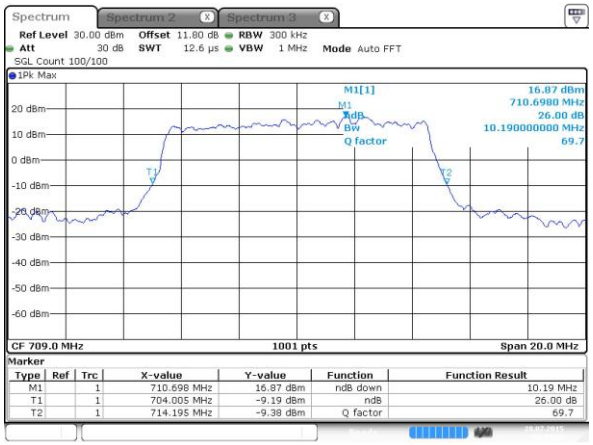


Highest Channel / 5MHz / 16QAM

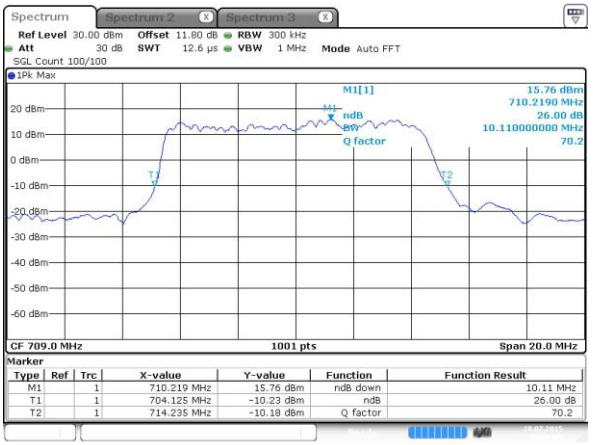


LTE Band 17

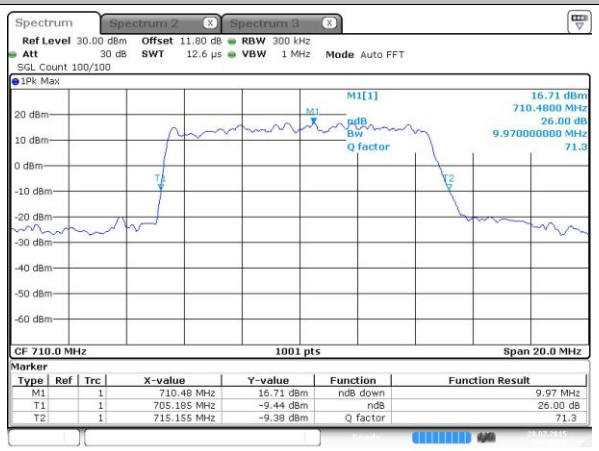
Lowest Channel / 10MHz / QPSK



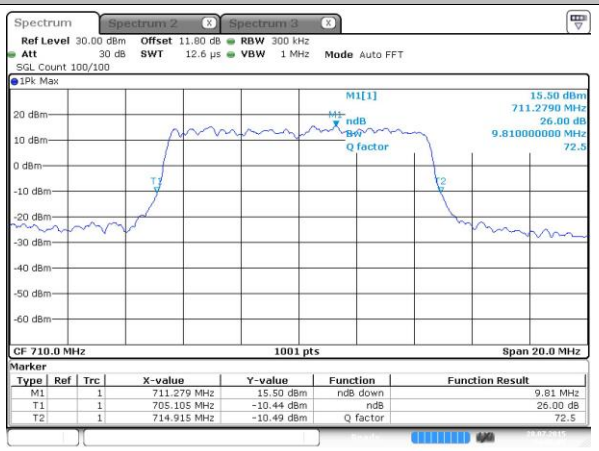
Lowest Channel / 10MHz / 16QAM



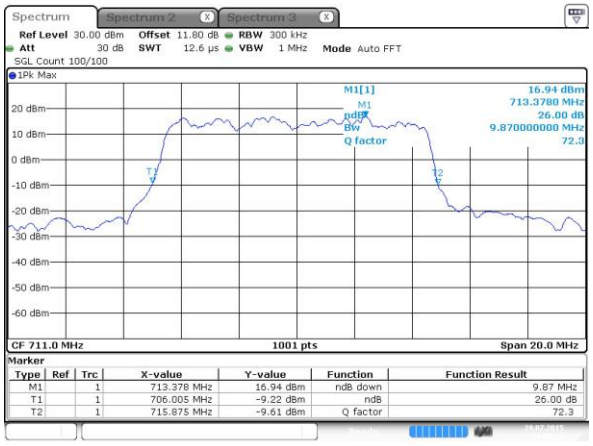
Middle Channel / 10MHz / QPSK



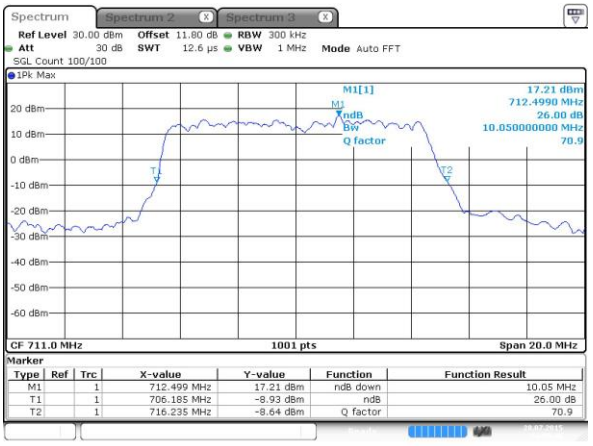
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

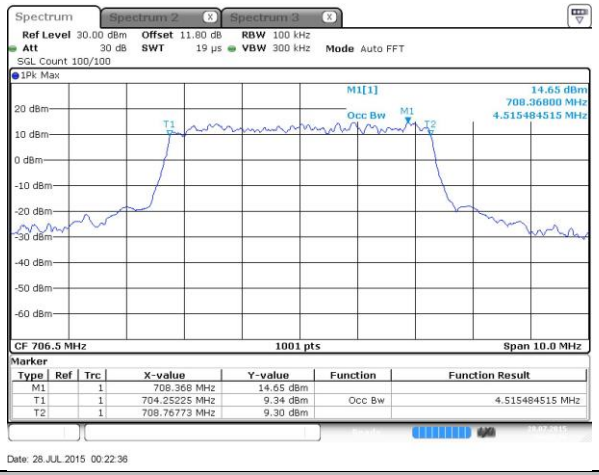


Occupied Bandwidth

Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.52	4.49	9.17	9.03	-	-	-	-
Middle CH	-	-	-	-	4.49	4.48	8.97	8.97	-	-	-	-
Highest CH	-	-	-	-	4.48	4.47	9.03	8.97	-	-	-	-

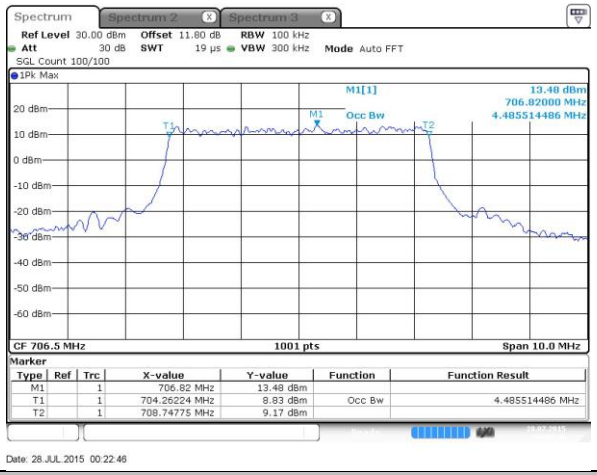
LTE Band 17

Lowest Channel / 5MHz / QPSK



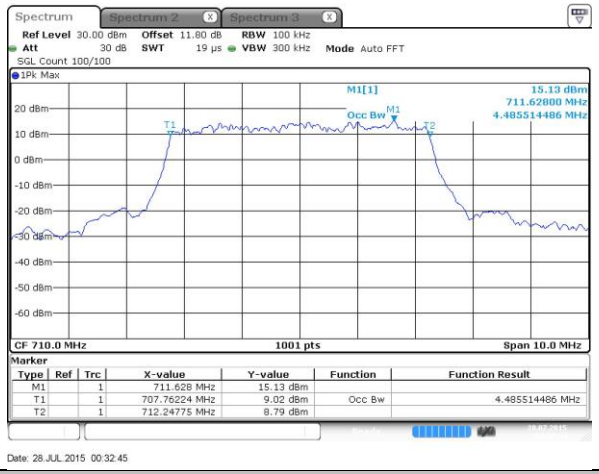
Date: 28.JUL.2015 00:22:36

Lowest Channel / 5MHz / 16QAM



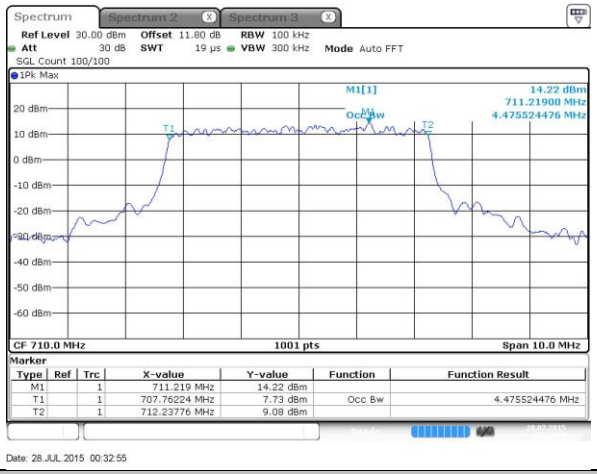
Date: 28.JUL.2015 00:22:46

Middle Channel / 5MHz / QPSK



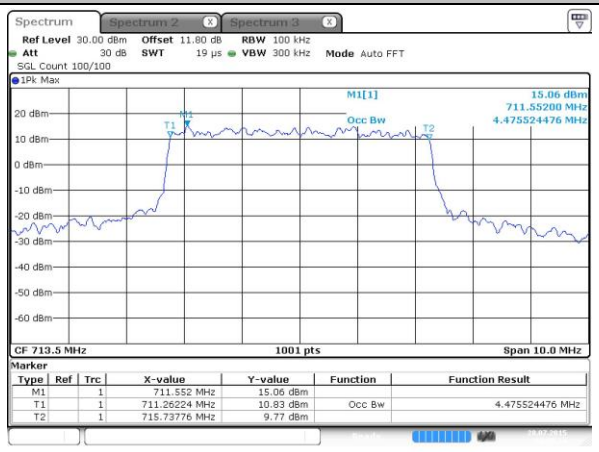
Date: 28.JUL.2015 00:32:45

Middle Channel / 5MHz / 16QAM



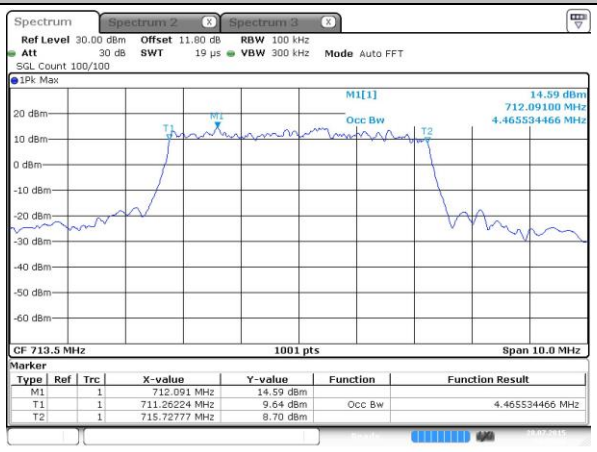
Date: 28.JUL.2015 00:32:55

Highest Channel / 5MHz / QPSK



Date: 28.JUL.2015 00:35:16

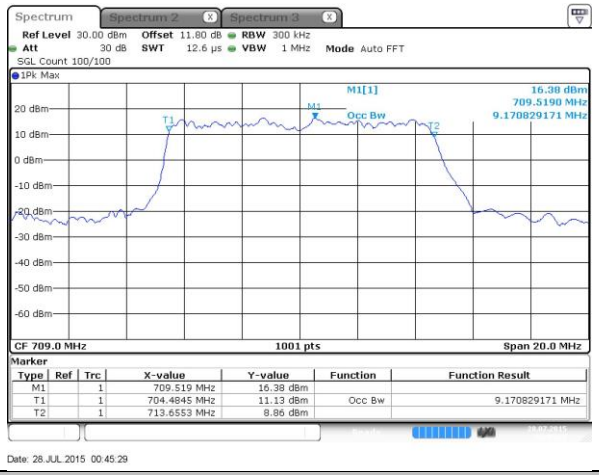
Highest Channel / 5MHz / 16QAM



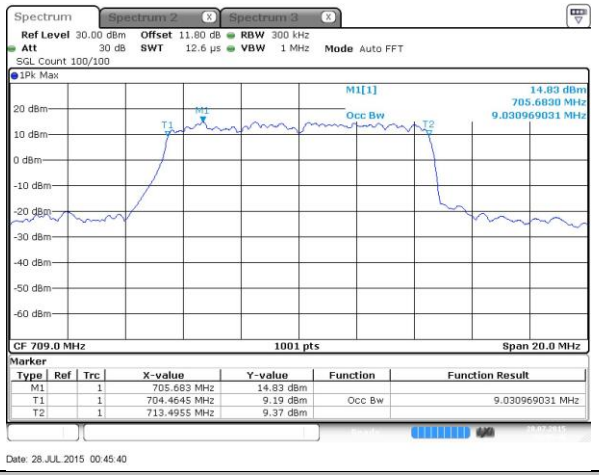
Date: 28.JUL.2015 00:35:27

LTE Band 17

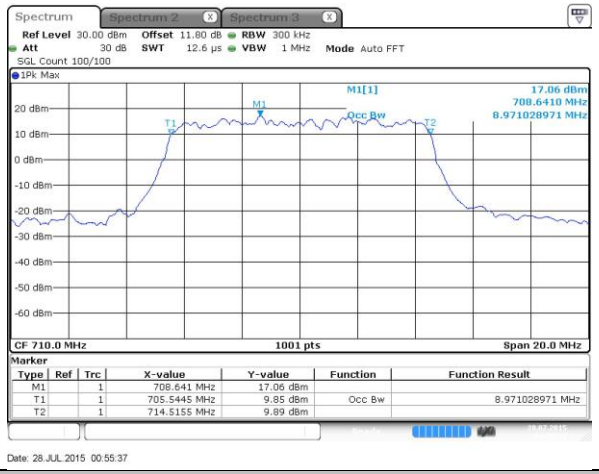
Lowest Channel / 10MHz / QPSK



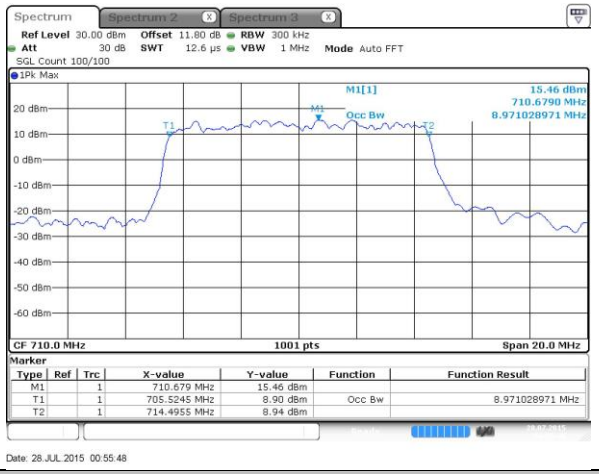
Lowest Channel / 10MHz / 16QAM



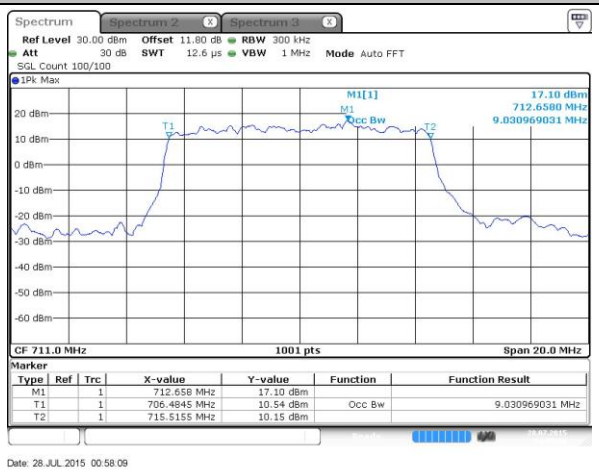
Middle Channel / 10MHz / QPSK



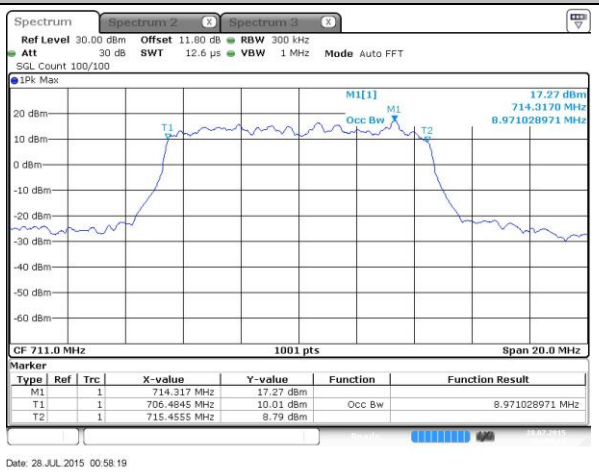
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



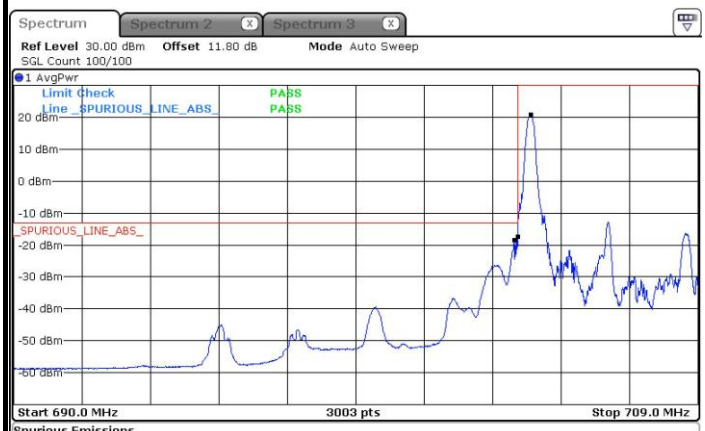
Highest Channel / 10MHz / 16QAM



Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB

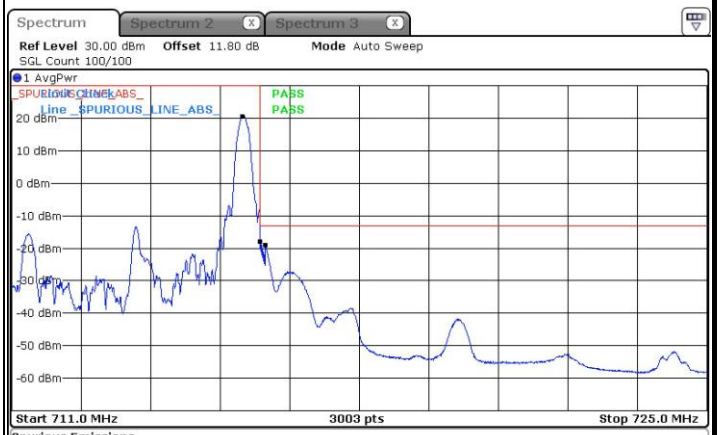


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-18.47 dBm	-5.47 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99146 MHz	-17.40 dBm	-4.40 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.34715 MHz	20.69 dBm	-9.31 dB

Date: 28.JUL.2015 00:25:01

Highest Band Edge / 1 RB

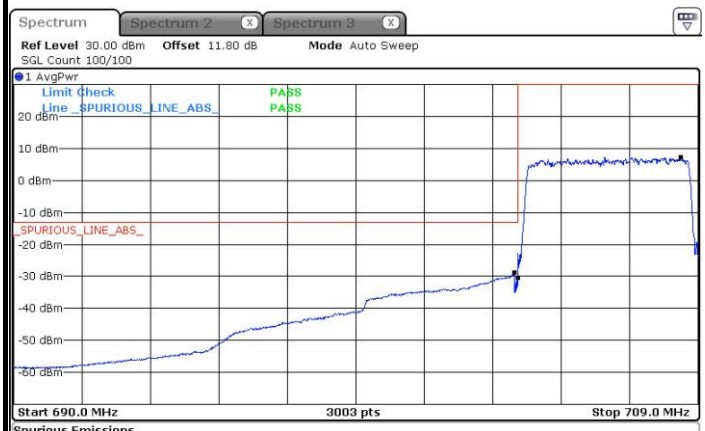


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.63786 MHz	20.57 dBm	-9.43 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00005 MHz	-17.87 dBm	-4.87 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-19.01 dBm	-6.01 dB

Date: 28.JUL.2015 00:37:42

Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-28.78 dBm	-15.78 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99286 MHz	-30.51 dBm	-17.51 dB
704.000 MHz	709.000 MHz	100.000 kHz	708.50799 MHz	7.22 dBm	-22.78 dB

Date: 28.JUL.2015 00:28:50

Highest Band Edge / Full RB

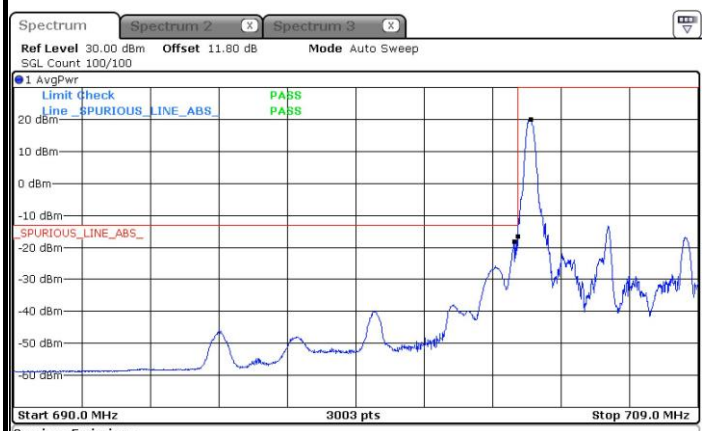
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	713.12537 MHz	6.95 dBm	-23.05 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00205 MHz	-30.05 dBm	-17.05 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-28.51 dBm	-15.51 dB

Date: 28.JUL.2015 00:41:31

LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

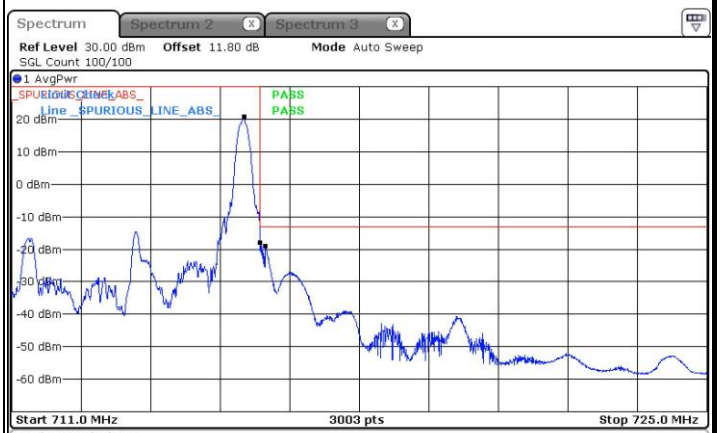


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-18.33 dBm	-5.33 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99905 MHz	-16.58 dBm	-3.58 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.36214 MHz	20.09 dBm	-9.91 dB

Date: 28.JUL.2015 00:26:56

Highest Band Edge / 1 RB

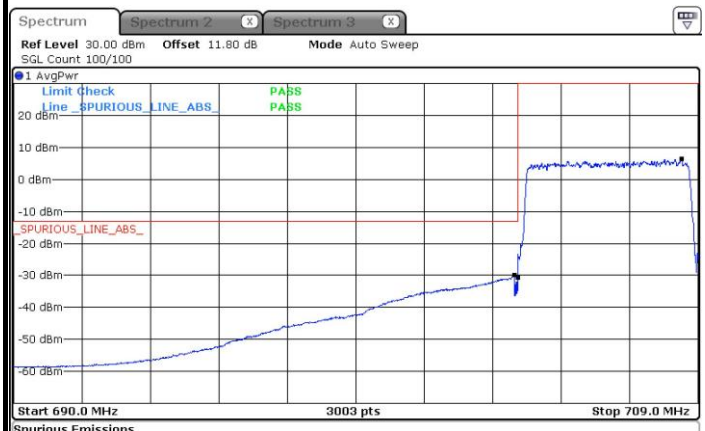


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.67283 MHz	20.71 dBm	-9.29 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00684 MHz	-17.90 dBm	-4.90 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-19.14 dBm	-6.14 dB

Date: 28.JUL.2015 00:39:36

Lowest Band Edge / Full RB

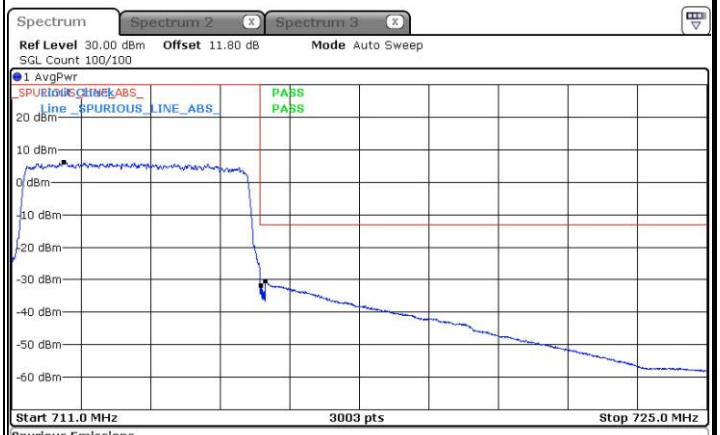


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-29.88 dBm	-16.88 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99965 MHz	-30.84 dBm	-17.84 dB
704.000 MHz	709.000 MHz	100.000 kHz	708.53297 MHz	6.51 dBm	-23.49 dB

Date: 28.JUL.2015 00:30:45

Highest Band Edge / Full RB



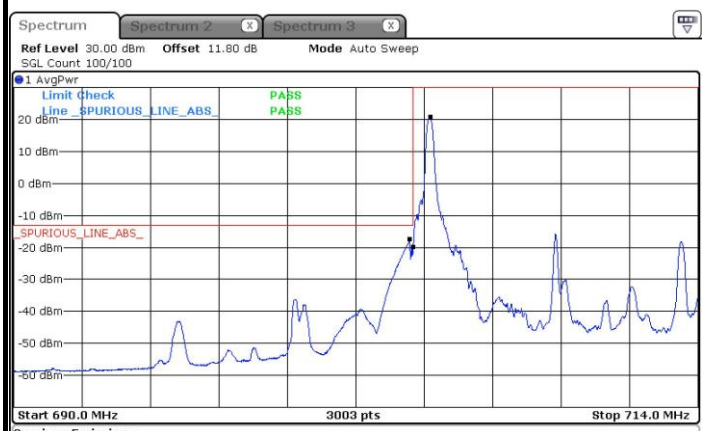
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	712.04146 MHz	6.12 dBm	-23.88 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00874 MHz	-31.79 dBm	-18.79 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-30.31 dBm	-17.31 dB

Date: 28.JUL.2015 00:43:25

LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB

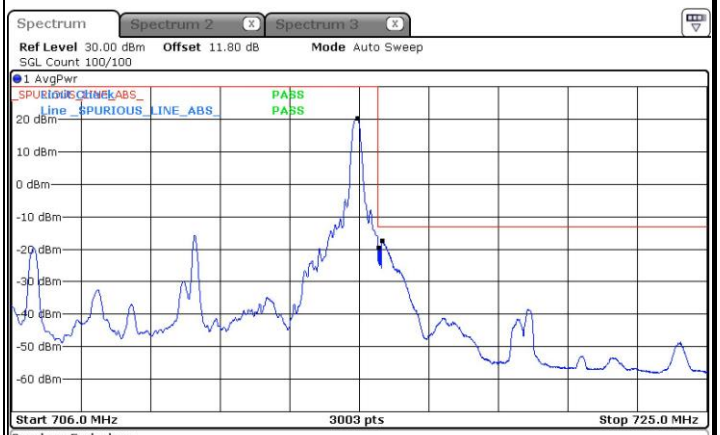


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-17.41 dBm	-4.41 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99665 MHz	-19.78 dBm	-6.78 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.61439 MHz	20.76 dBm	-9.24 dB

Date: 28.JUL.2015 00:47:55

Highest Band Edge / 1 RB

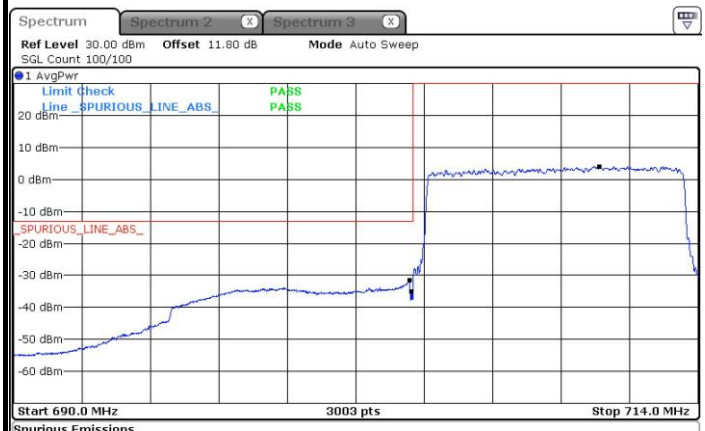


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.45554 MHz	20.30 dBm	-9.70 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.03831 MHz	-19.46 dBm	-6.46 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-17.34 dBm	-4.34 dB

Date: 28.JUL.2015 01:00:34

Lowest Band Edge / Full RB

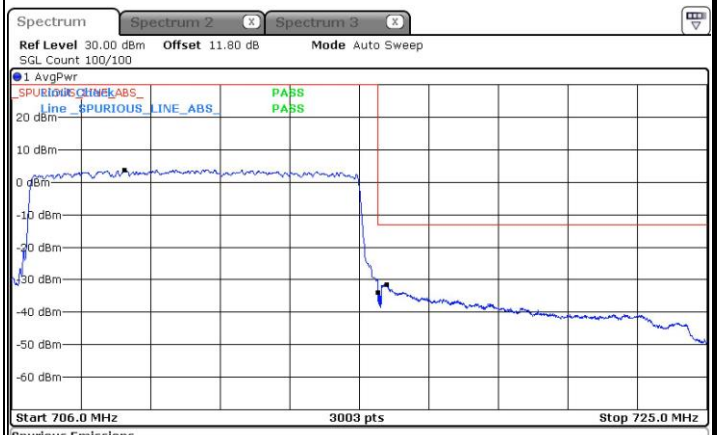


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.87917 MHz	-31.38 dBm	-18.38 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.95719 MHz	-35.01 dBm	-22.01 dB
704.000 MHz	714.000 MHz	100.000 kHz	710.54845 MHz	4.00 dBm	-26.00 dB

Date: 28.JUL.2015 00:51:43

Highest Band Edge / Full RB



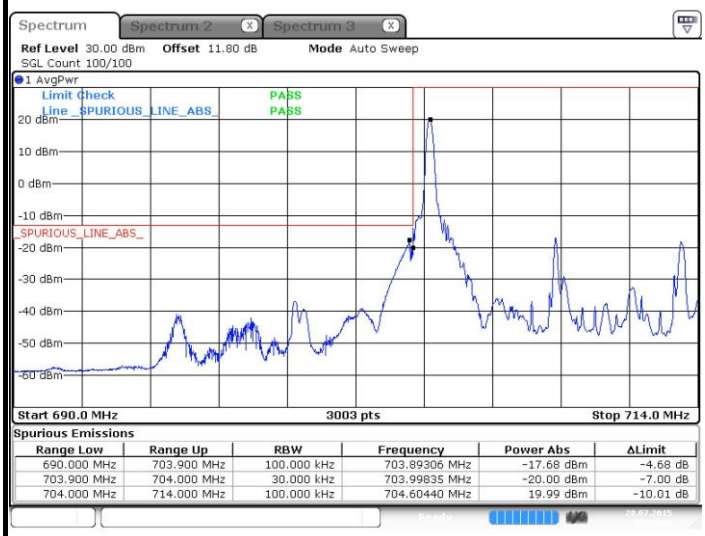
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	709.08192 MHz	3.84 dBm	-26.16 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01394 MHz	-33.88 dBm	-20.88 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.23781 MHz	-31.42 dBm	-18.42 dB

Date: 28.JUL.2015 01:04:23

LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

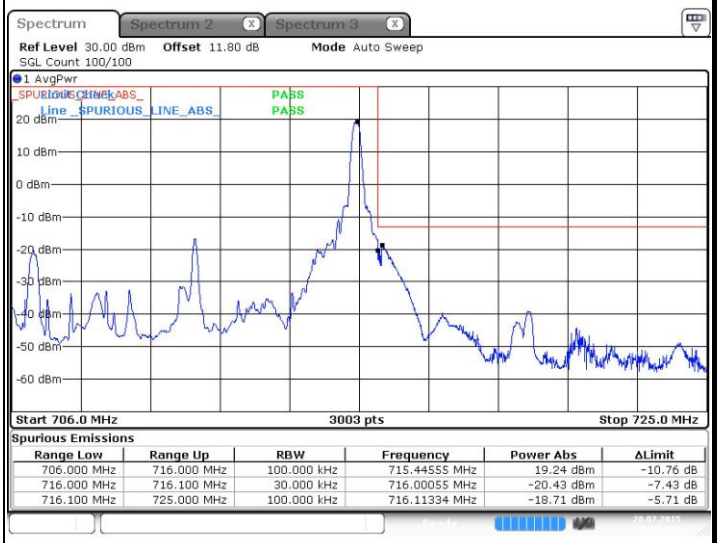


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-17.68 dBm	-4.68 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99835 MHz	-20.00 dBm	-7.00 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.60440 MHz	19.99 dBm	-10.01 dB

Date: 28.JUL.2015 00:49:49

Highest Band Edge / 1 RB

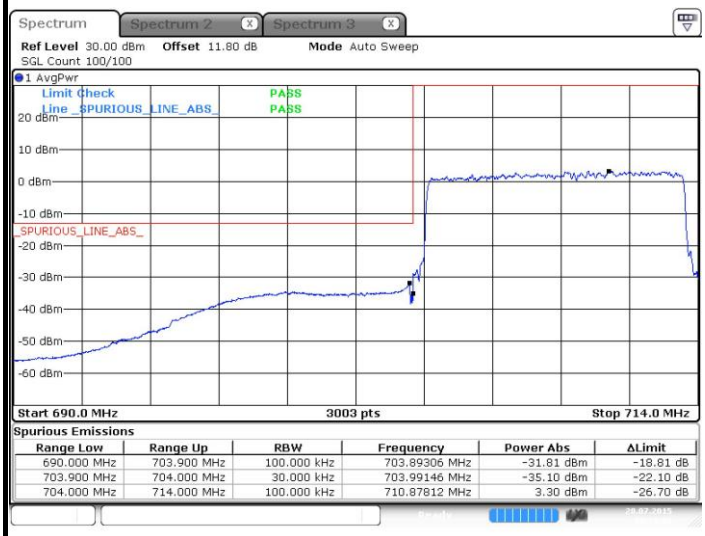


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.44555 MHz	19.24 dBm	-10.76 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00055 MHz	-20.43 dBm	-7.43 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-18.71 dBm	-5.71 dB

Date: 28.JUL.2015 01:02:28

Lowest Band Edge / Full RB

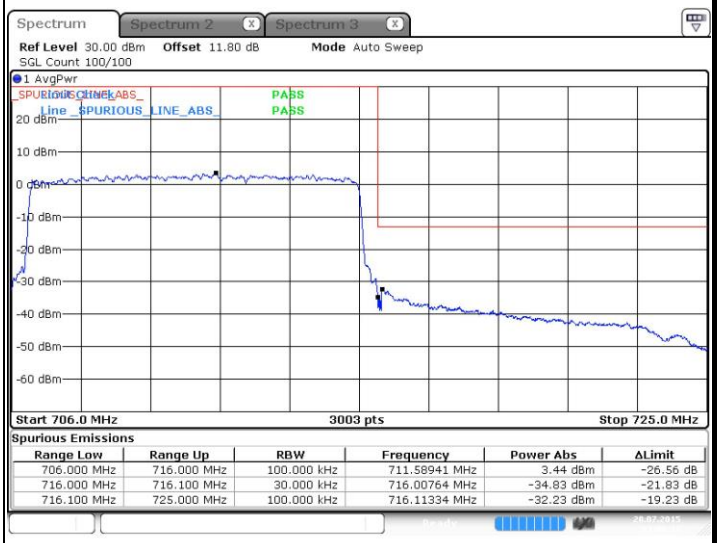


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-31.81 dBm	-18.81 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99146 MHz	-35.10 dBm	-22.10 dB
704.000 MHz	714.000 MHz	100.000 kHz	710.87812 MHz	3.30 dBm	-26.70 dB

Date: 28.JUL.2015 00:53:38

Highest Band Edge / Full RB



Spurious Emissions

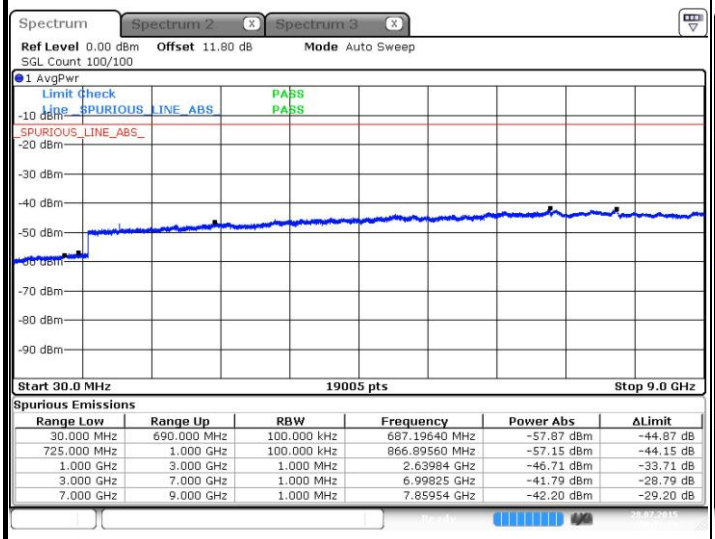
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	711.58941 MHz	3.44 dBm	-26.56 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00764 MHz	-34.83 dBm	-21.83 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-32.23 dBm	-19.23 dB

Date: 28.JUL.2015 01:06:17

Conducted Spurious Emission

LTE Band 17 / 5MHz

Lowest Channel / QPSK

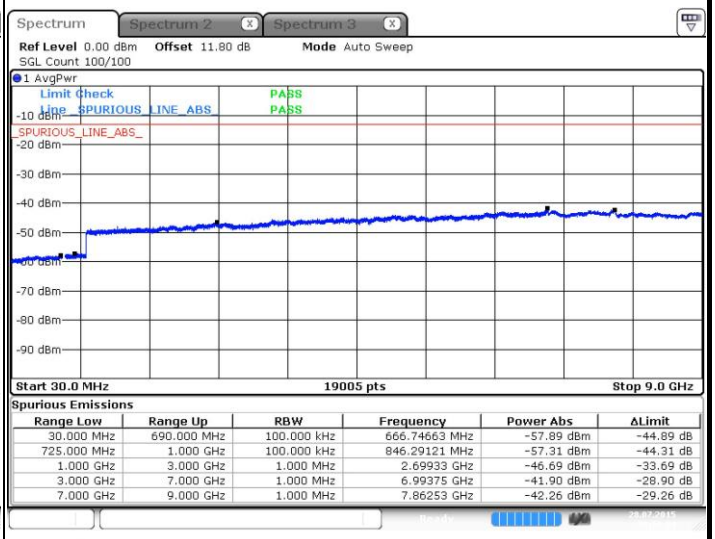


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	687.19640 MHz	-57.87 dBm	-44.87 dB
725.000 MHz	1.000 GHz	100.000 kHz	866.89560 MHz	-57.15 dBm	-44.15 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.63984 GHz	-46.71 dBm	-33.71 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99825 GHz	-41.79 dBm	-28.79 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85954 GHz	-42.20 dBm	-29.20 dB

Date: 28.JUL.2015 00:31:40

Lowest Channel / 16QAM

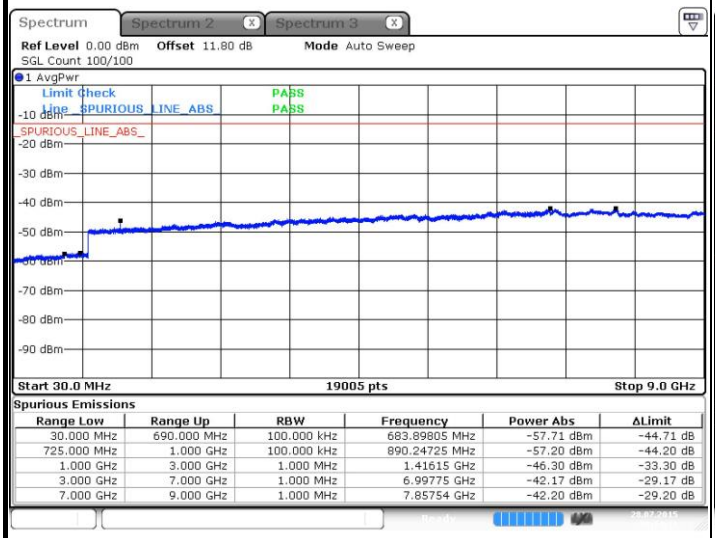


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	666.74663 MHz	-57.89 dBm	-44.89 dB
725.000 MHz	1.000 GHz	100.000 kHz	846.29121 MHz	-57.31 dBm	-44.31 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.69933 GHz	-46.69 dBm	-33.69 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99375 GHz	-41.90 dBm	-28.90 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86253 GHz	-42.26 dBm	-29.26 dB

Date: 28.JUL.2015 00:32:34

Middle Channel / QPSK

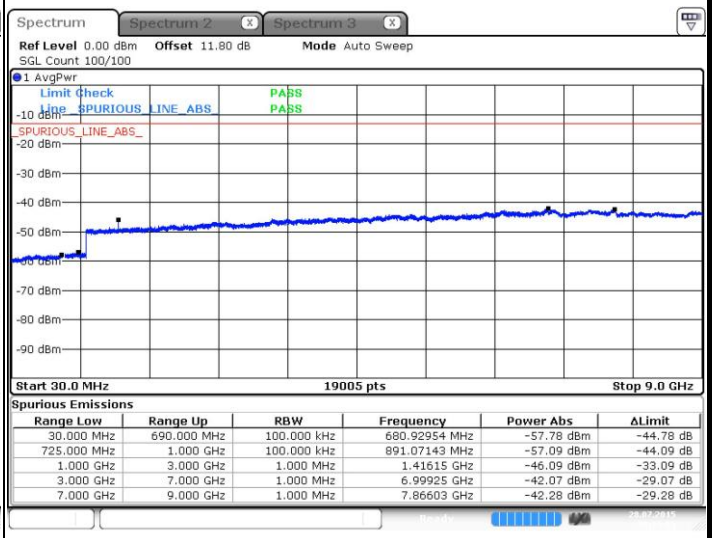


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	683.89805 MHz	-57.71 dBm	-44.71 dB
725.000 MHz	1.000 GHz	100.000 kHz	890.24725 MHz	-57.20 dBm	-44.20 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-46.30 dBm	-33.30 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99775 GHz	-42.17 dBm	-29.17 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85754 GHz	-42.20 dBm	-29.20 dB

Date: 28.JUL.2015 00:34:11

Middle Channel / 16QAM



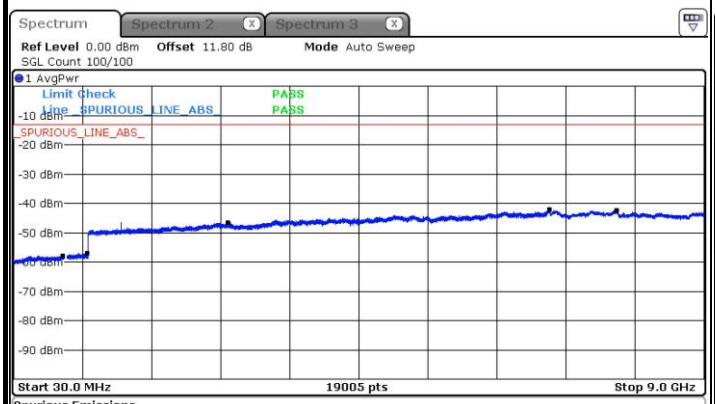
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	680.92954 MHz	-57.78 dBm	-44.78 dB
725.000 MHz	1.000 GHz	100.000 kHz	891.07143 MHz	-57.09 dBm	-44.09 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-46.09 dBm	-33.09 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99925 GHz	-42.07 dBm	-29.07 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86603 GHz	-42.28 dBm	-29.28 dB

Date: 28.JUL.2015 00:35:05

LTE Band 17 / 5MHz

Highest Channel / QPSK

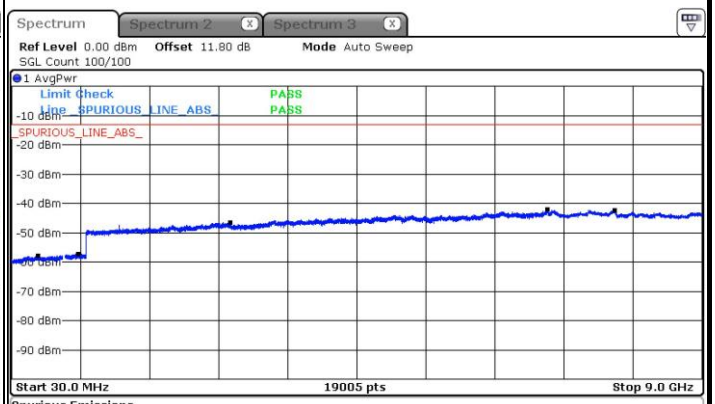


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	666.74663 MHz	-57.78 dBm	-44.78 dB
725.000 MHz	1.000 GHz	100.000 kHz	980.90659 MHz	-56.89 dBm	-43.89 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.80830 GHz	-46.66 dBm	-33.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98525 GHz	-41.99 dBm	-28.99 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86453 GHz	-42.40 dBm	-29.40 dB

Date: 28.JUL.2015 00:44:20

Highest Channel / 16QAM



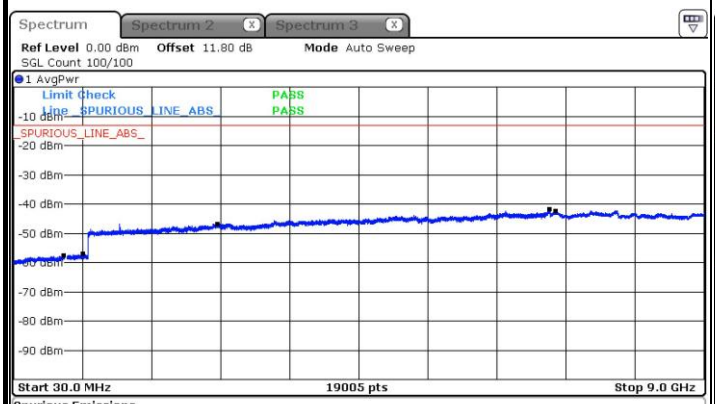
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	365.27736 MHz	-57.83 dBm	-44.83 dB
725.000 MHz	1.000 GHz	100.000 kHz	888.87363 MHz	-57.21 dBm	-44.21 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.87378 GHz	-46.60 dBm	-33.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99525 GHz	-42.09 dBm	-29.09 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86103 GHz	-42.26 dBm	-29.26 dB

Date: 28.JUL.2015 00:45:15

LTE Band 17 / 10MHz

Lowest Channel / QPSK

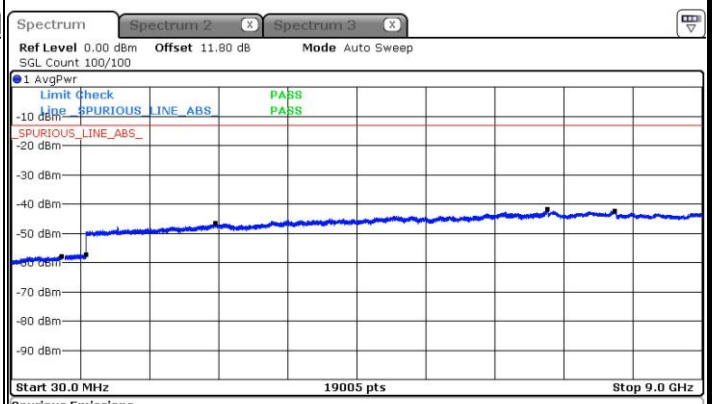


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	680.92954 MHz	-57.72 dBm	-44.72 dB
725.000 MHz	1.000 GHz	100.000 kHz	928.43407 MHz	-57.16 dBm	-44.16 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.68083 GHz	-46.79 dBm	-33.79 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99575 GHz	-41.66 dBm	-28.66 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.06823 GHz	-42.37 dBm	-29.37 dB

Date: 28.JUL.2015 00:54:33

Lowest Channel / 16QAM



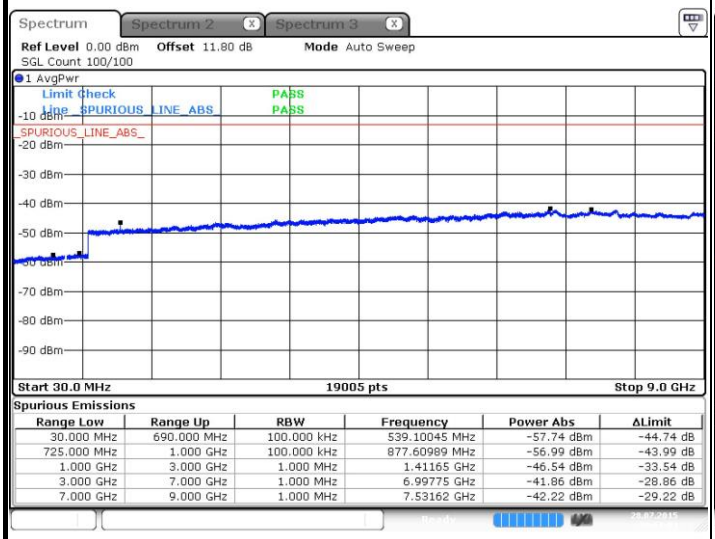
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	679.61019 MHz	-57.83 dBm	-44.83 dB
725.000 MHz	1.000 GHz	100.000 kHz	990.24725 MHz	-57.25 dBm	-44.25 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.67933 GHz	-46.57 dBm	-33.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99325 GHz	-41.71 dBm	-28.71 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86203 GHz	-42.28 dBm	-29.28 dB

Date: 28.JUL.2015 00:55:27

LTE Band 17 / 10MHz

Middle Channel / QPSK

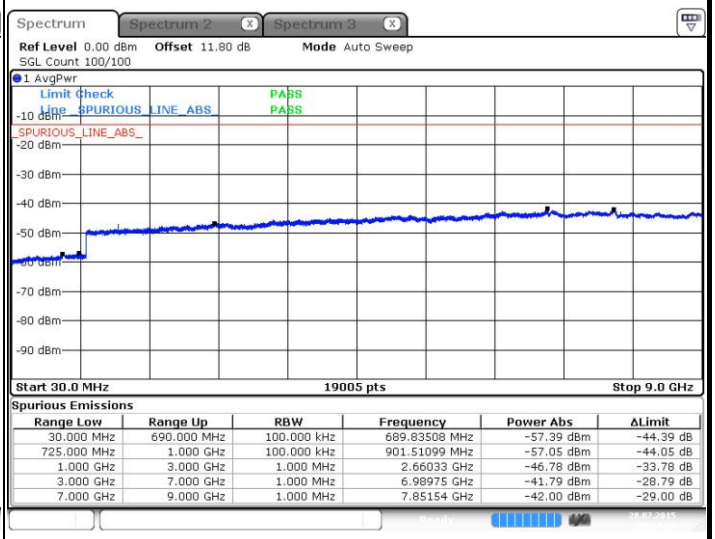


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	539.10045 MHz	-57.74 dBm	-44.74 dB
725.000 MHz	1.000 GHz	100.000 kHz	877.60989 MHz	-56.99 dBm	-43.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41165 GHz	-46.54 dBm	-33.54 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99775 GHz	-41.86 dBm	-28.86 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.53162 GHz	-42.22 dBm	-29.22 dB

Date: 28.JUL.2015 00:57:04

Middle Channel / 16QAM

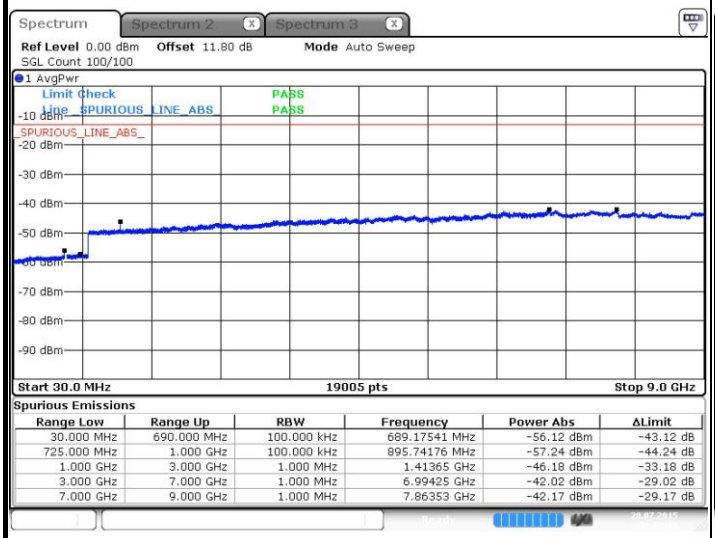


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.83508 MHz	-57.39 dBm	-44.39 dB
725.000 MHz	1.000 GHz	100.000 kHz	901.51099 MHz	-57.05 dBm	-44.05 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.66033 GHz	-46.78 dBm	-33.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98975 GHz	-41.79 dBm	-28.79 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85154 GHz	-42.00 dBm	-29.00 dB

Date: 28.JUL.2015 00:57:58

Highest Channel / QPSK

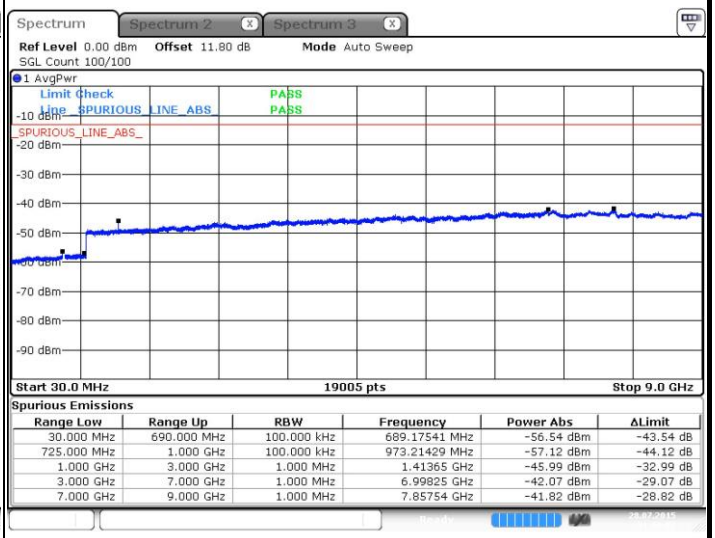


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.17541 MHz	-56.12 dBm	-43.12 dB
725.000 MHz	1.000 GHz	100.000 kHz	895.74176 MHz	-57.24 dBm	-44.24 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-46.18 dBm	-33.18 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-42.02 dBm	-29.02 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.86353 GHz	-42.17 dBm	-29.17 dB

Date: 28.JUL.2015 01:07:12

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.17541 MHz	-56.54 dBm	-43.54 dB
725.000 MHz	1.000 GHz	100.000 kHz	973.21429 MHz	-57.12 dBm	-44.12 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-45.99 dBm	-32.99 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99825 GHz	-42.07 dBm	-29.07 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.85754 GHz	-41.82 dBm	-28.82 dB

Date: 28.JUL.2015 01:08:07

Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0040	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0017	

Note:

1. Normal Voltage = 3.85V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.35 V

2. Note: The frequency fundamental emissions stay within the authorized frequency block.