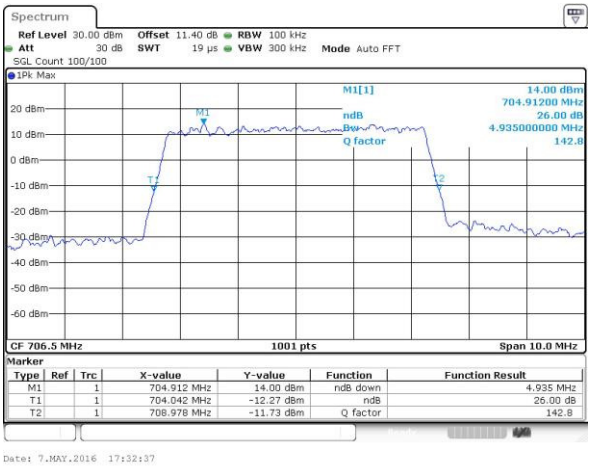
26dB Bandwidth

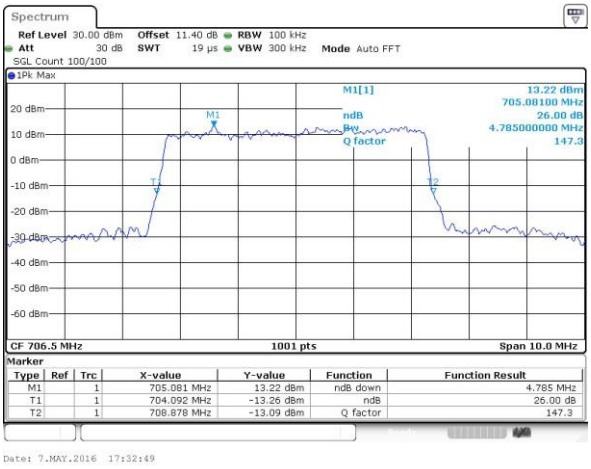
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.93	4.79	9.59	9.73	-	-	-	-
Middle CH	-	-	-	-	4.88	4.92	9.65	9.63	-	-	-	-
Highest CH	-	-	-	-	4.92	4.86	9.73	9.75	-	-	-	-

LTE Band 17

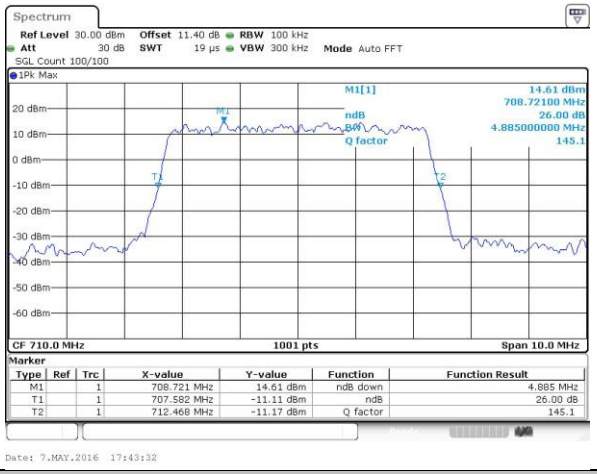
Lowest Channel / 5MHz / QPSK



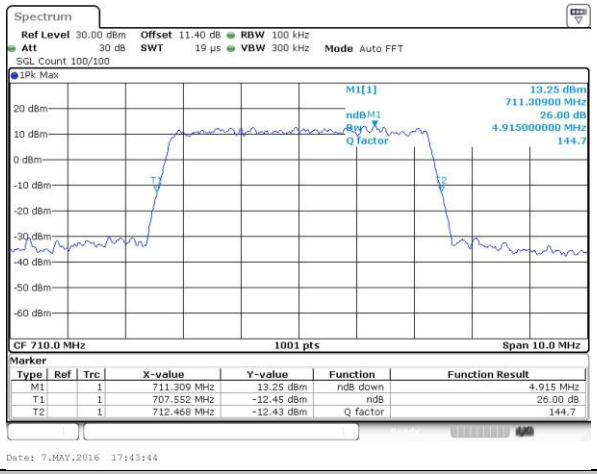
Lowest Channel / 5MHz / 16QAM



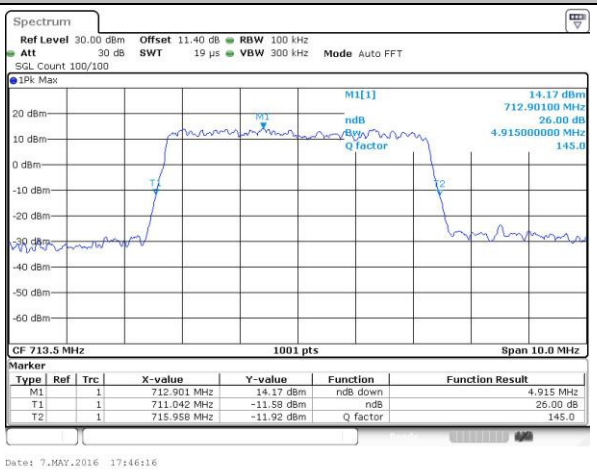
Middle Channel / 5MHz / QPSK



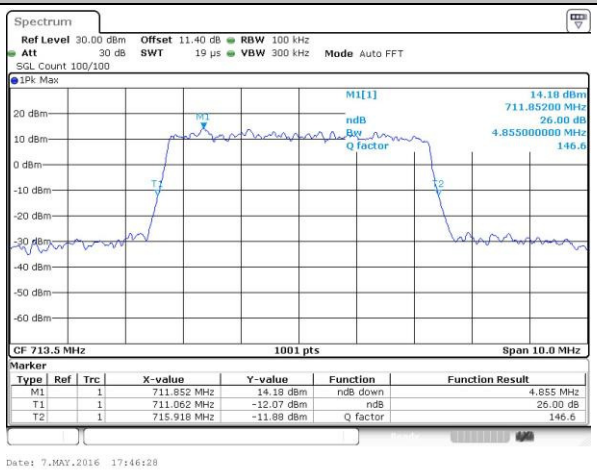
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

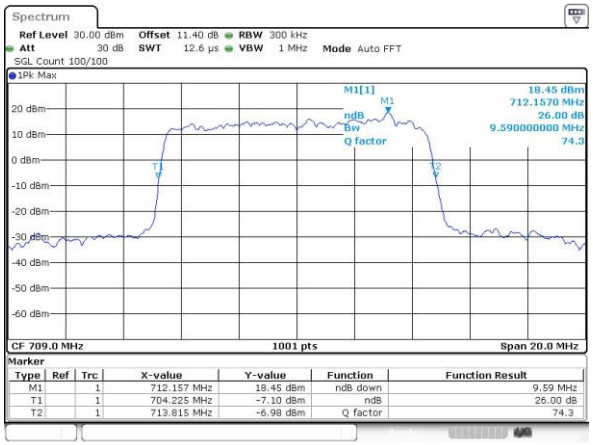


Highest Channel / 5MHz / 16QAM

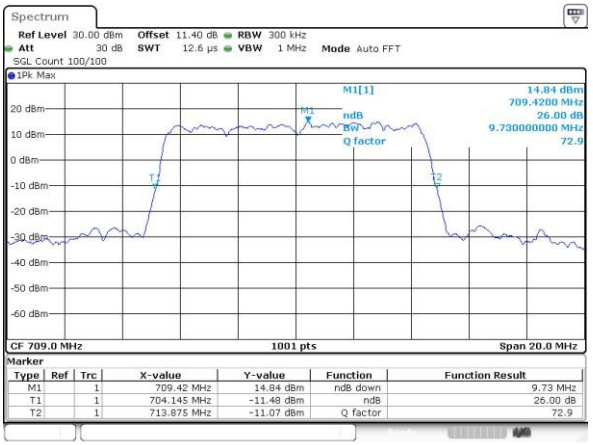


LTE Band 17

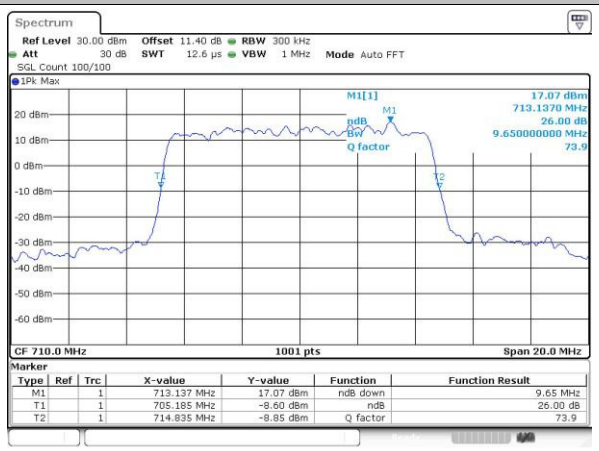
Lowest Channel / 10MHz / QPSK



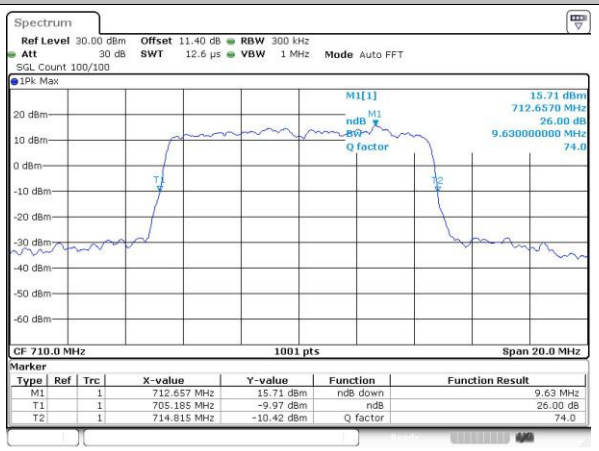
Lowest Channel / 10MHz / 16QAM



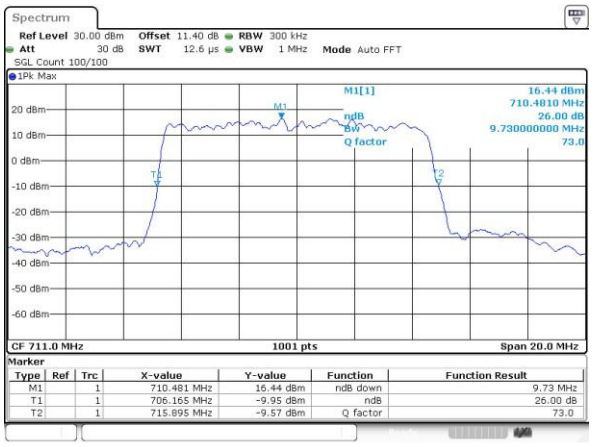
Middle Channel / 10MHz / QPSK



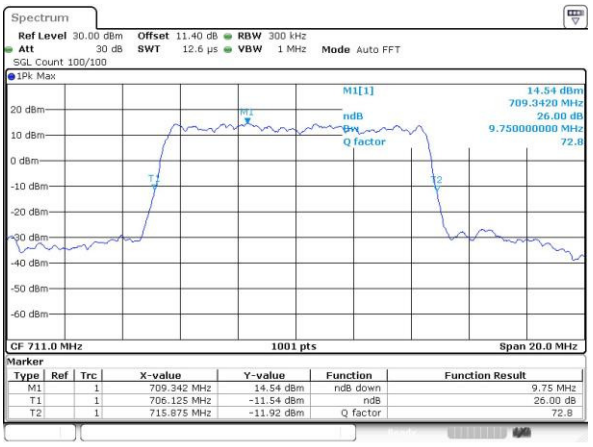
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

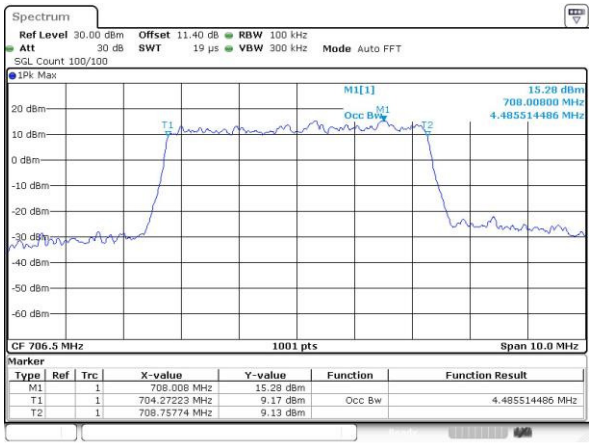


Occupied Bandwidth

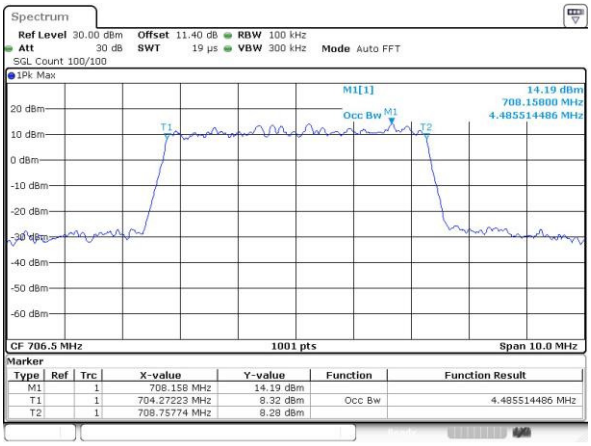
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.49	8.95	8.97	-	-	-	-
Middle CH	-	-	-	-	4.50	4.49	8.97	8.93	-	-	-	-
Highest CH	-	-	-	-	4.51	4.49	8.97	9.01	-	-	-	-

LTE Band 17

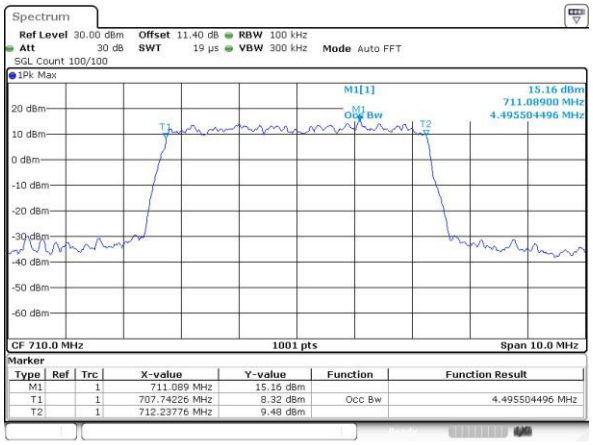
Lowest Channel / 5MHz / QPSK



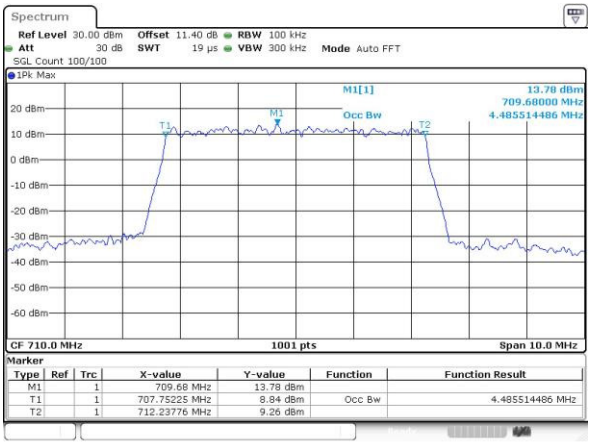
Lowest Channel / 5MHz / 16QAM



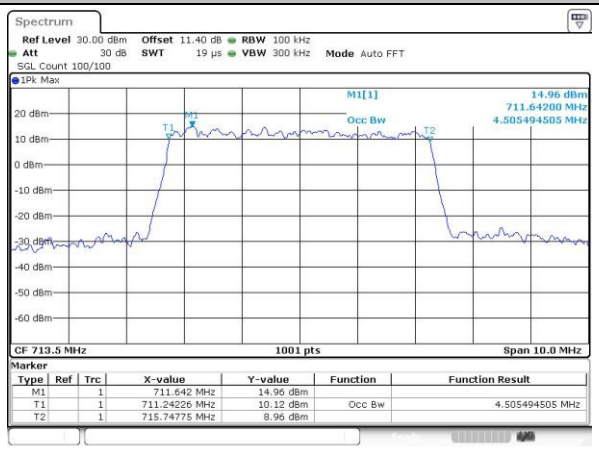
Middle Channel / 5MHz / QPSK



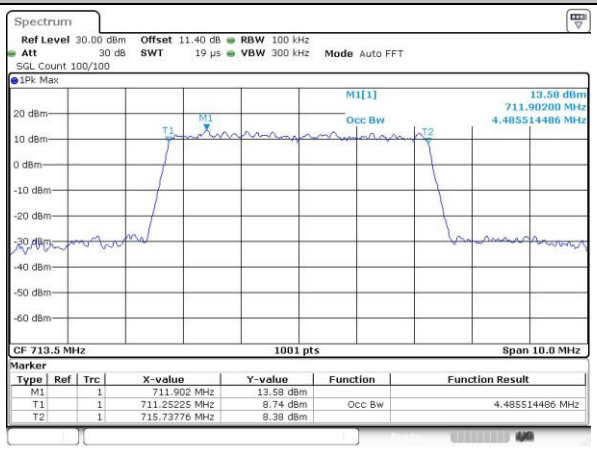
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

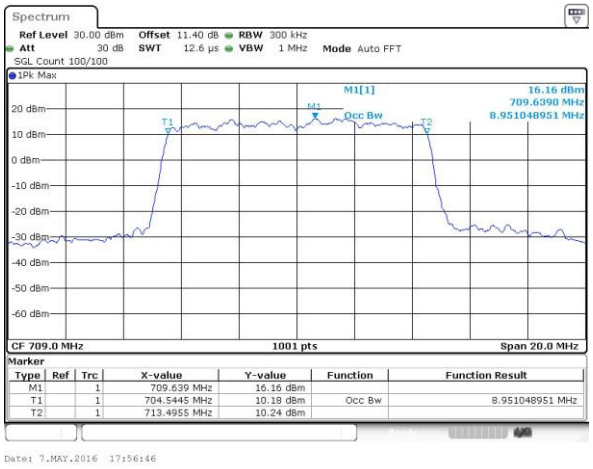


Highest Channel / 5MHz / 16QAM

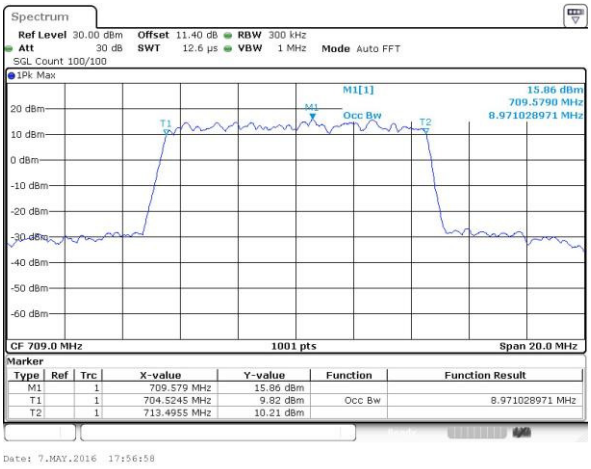


LTE Band 17

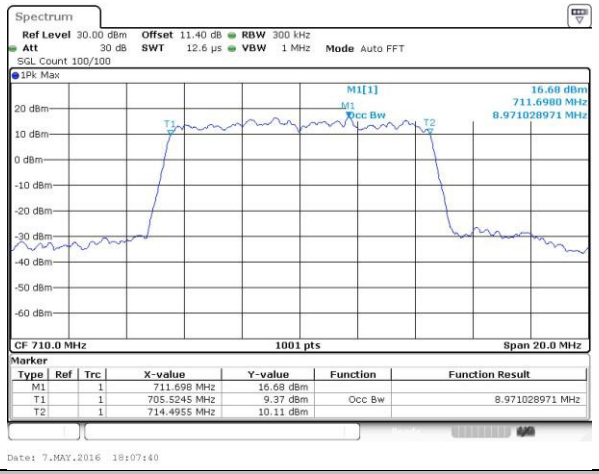
Lowest Channel / 10MHz / QPSK



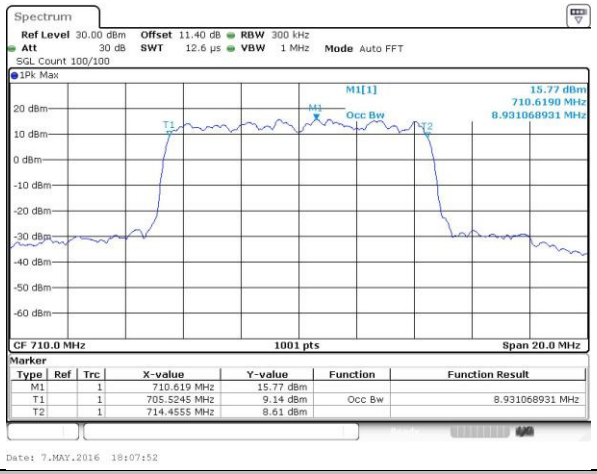
Lowest Channel / 10MHz / 16QAM



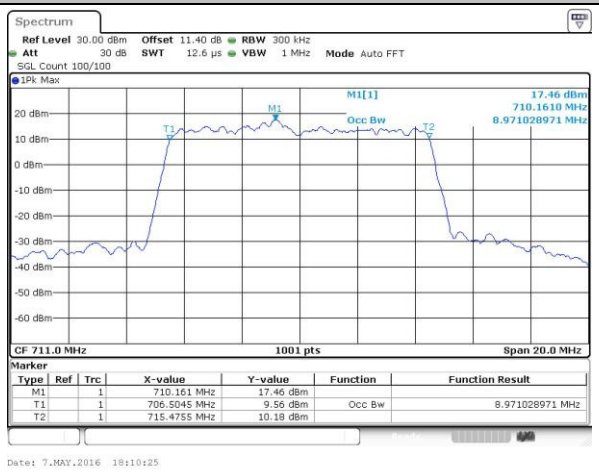
Middle Channel / 10MHz / QPSK



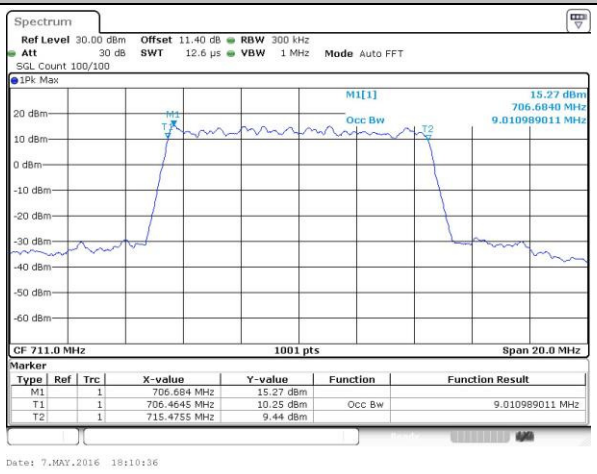
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



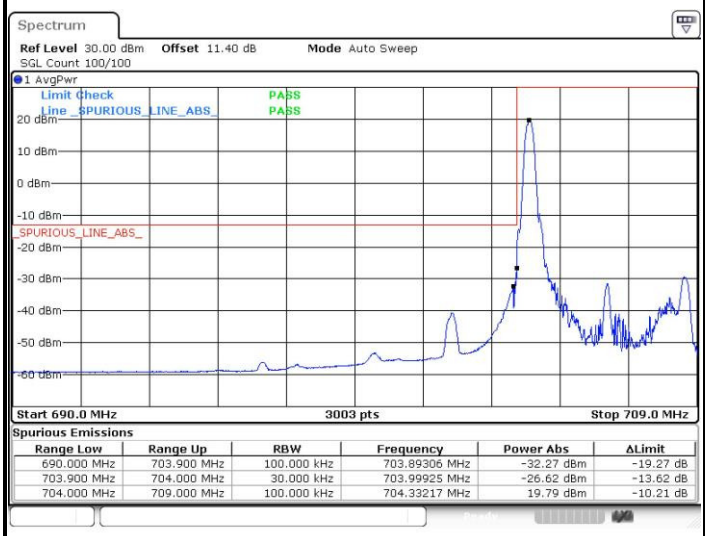
Highest Channel / 10MHz / 16QAM



Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB

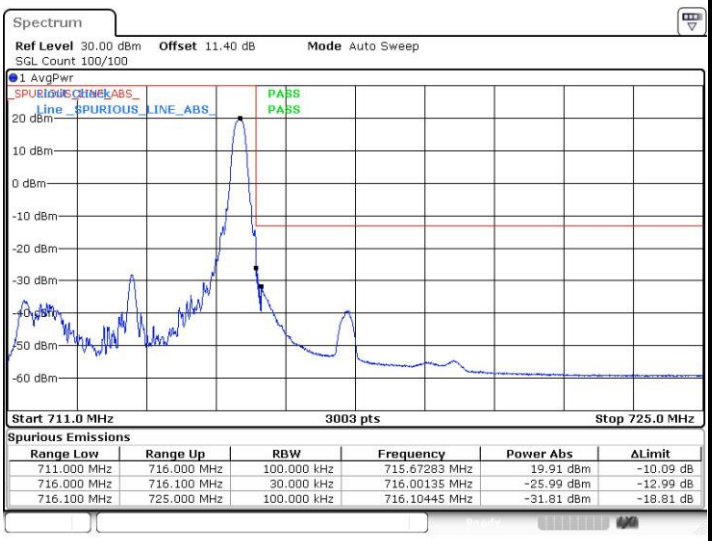


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-32.27 dBm	-19.27 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99925 MHz	-26.62 dBm	-13.62 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.33217 MHz	19.79 dBm	-10.21 dB

Date: 7.MAY.2016 17:34:52

Highest Band Edge / 1 RB

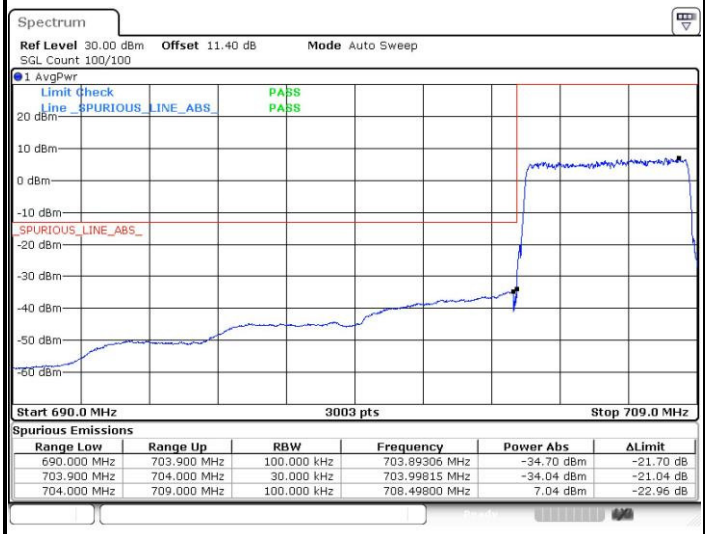


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.67283 MHz	19.91 dBm	-10.09 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00135 MHz	-25.99 dBm	-12.99 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-31.81 dBm	-18.81 dB

Date: 7.MAY.2016 17:48:30

Lowest Band Edge / Full RB

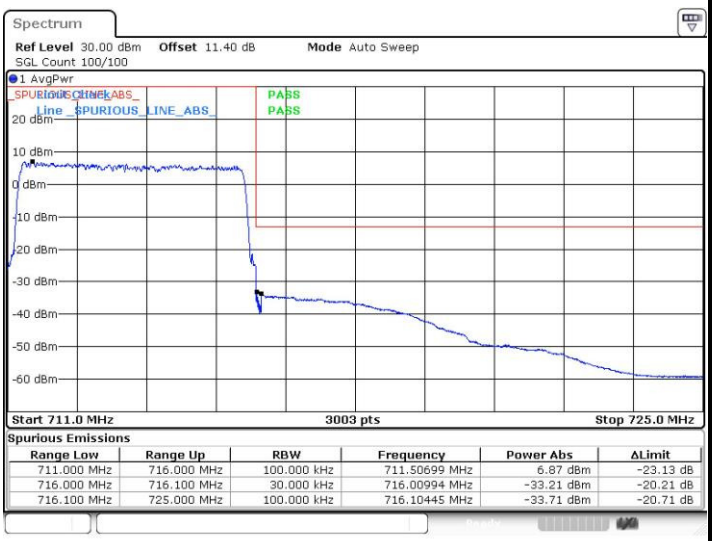


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-34.70 dBm	-21.70 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99815 MHz	-34.04 dBm	-21.04 dB
704.000 MHz	709.000 MHz	100.000 kHz	708.49800 MHz	7.04 dBm	-22.96 dB

Date: 7.MAY.2016 17:38:57

Highest Band Edge / Full RB



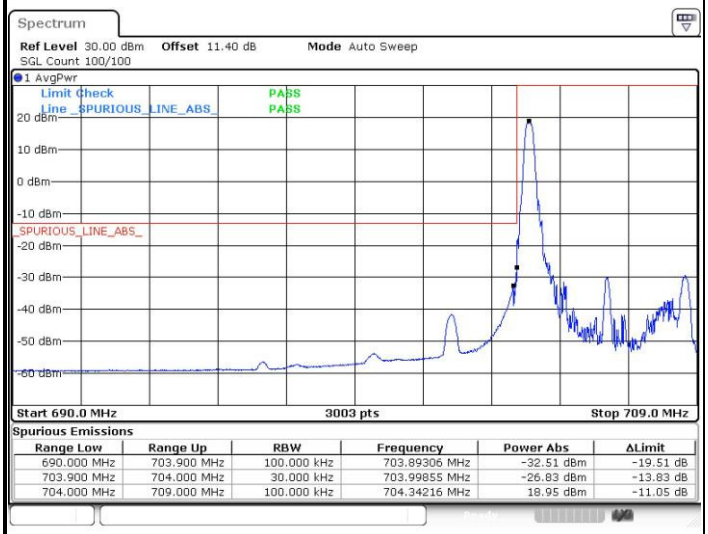
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	711.50699 MHz	6.87 dBm	-23.13 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00994 MHz	-33.21 dBm	-20.21 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-33.71 dBm	-20.71 dB

Date: 7.MAY.2016 17:52:35

LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

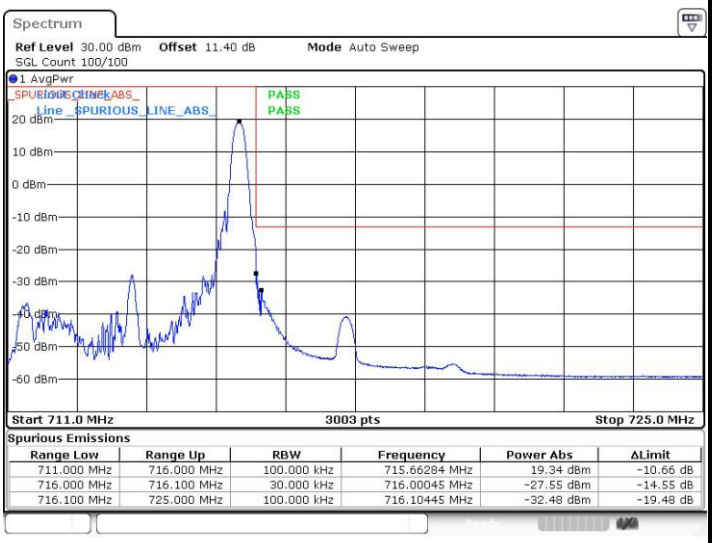


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-32.51 dBm	-19.51 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99855 MHz	-26.83 dBm	-13.83 dB
704.000 MHz	709.000 MHz	100.000 kHz	704.34216 MHz	18.95 dBm	-11.05 dB

Date: 7.MAY.2016 17:36:54

Highest Band Edge / 1 RB

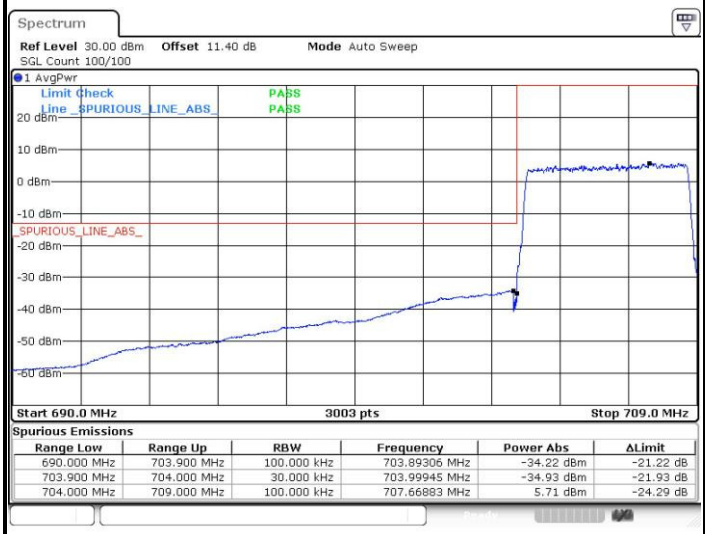


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.66284 MHz	19.34 dBm	-10.66 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00045 MHz	-27.55 dBm	-14.55 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-32.48 dBm	-19.48 dB

Date: 7.MAY.2016 17:50:33

Lowest Band Edge / Full RB

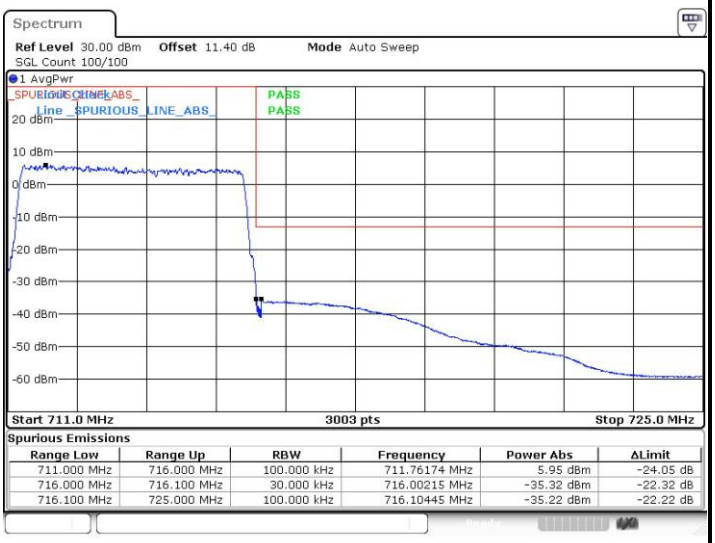


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-34.22 dBm	-21.22 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99945 MHz	-34.93 dBm	-21.93 dB
704.000 MHz	709.000 MHz	100.000 kHz	707.66883 MHz	5.71 dBm	-24.29 dB

Date: 7.MAY.2016 17:40:59

Highest Band Edge / Full RB



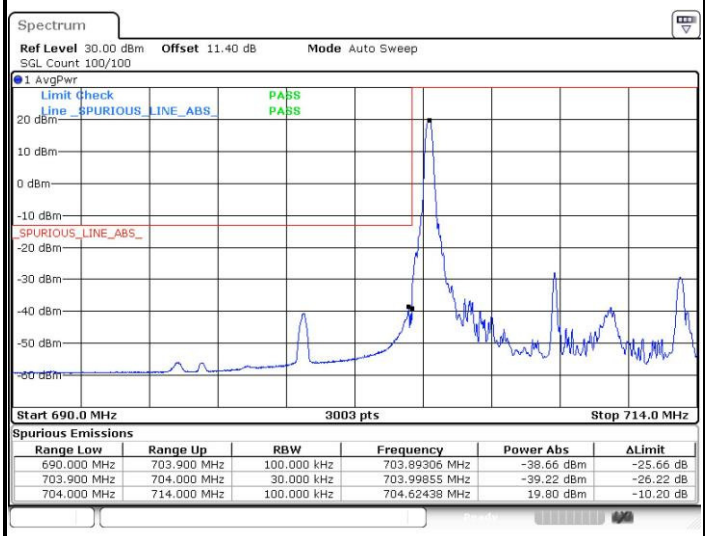
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	711.76174 MHz	5.95 dBm	-24.05 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00215 MHz	-35.32 dBm	-22.32 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-35.22 dBm	-22.22 dB

Date: 7.MAY.2016 17:54:38

LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB

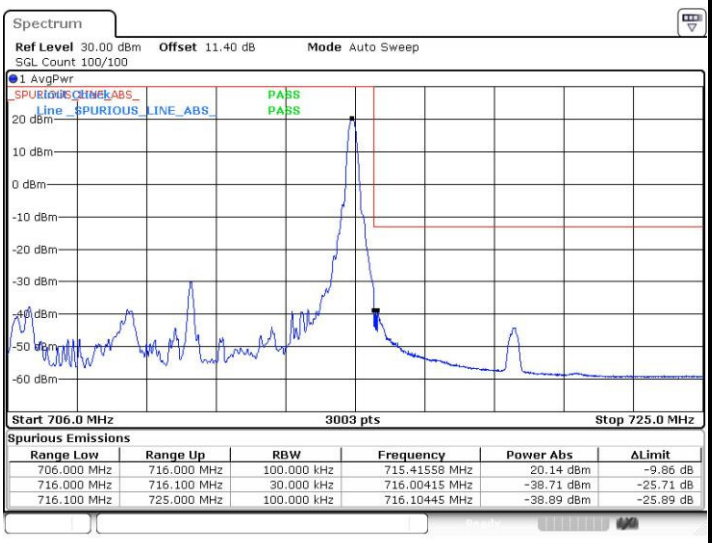


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-38.66 dBm	-25.66 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99855 MHz	-39.22 dBm	-26.22 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.62438 MHz	19.80 dBm	-10.20 dB

Date: 7.MAY.2016 17:59:24

Highest Band Edge / 1 RB

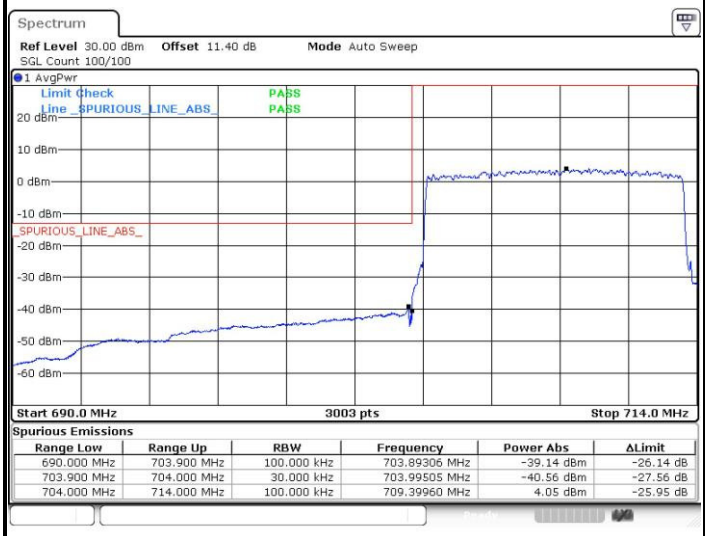


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.41558 MHz	20.14 dBm	-9.86 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00415 MHz	-38.71 dBm	-25.71 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-38.89 dBm	-25.89 dB

Date: 7.MAY.2016 18:13:03

Lowest Band Edge / Full RB

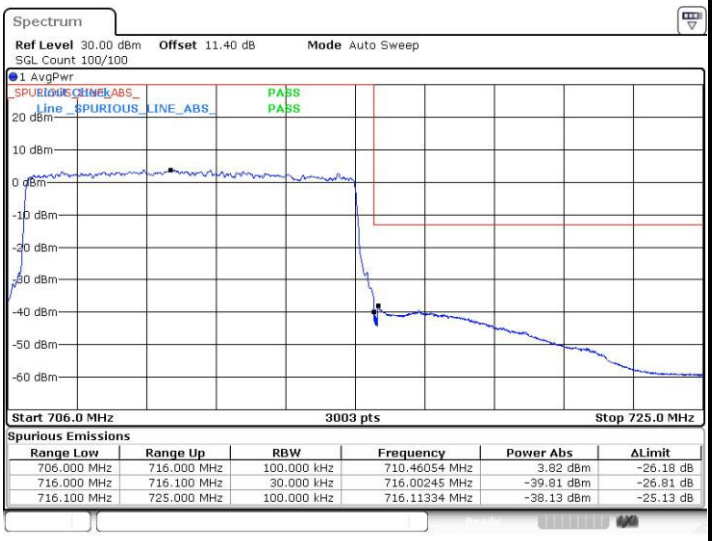


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-39.14 dBm	-26.14 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99505 MHz	-40.56 dBm	-27.56 dB
704.000 MHz	714.000 MHz	100.000 kHz	709.39960 MHz	4.05 dBm	-25.95 dB

Date: 7.MAY.2016 18:03:29

Highest Band Edge / Full RB



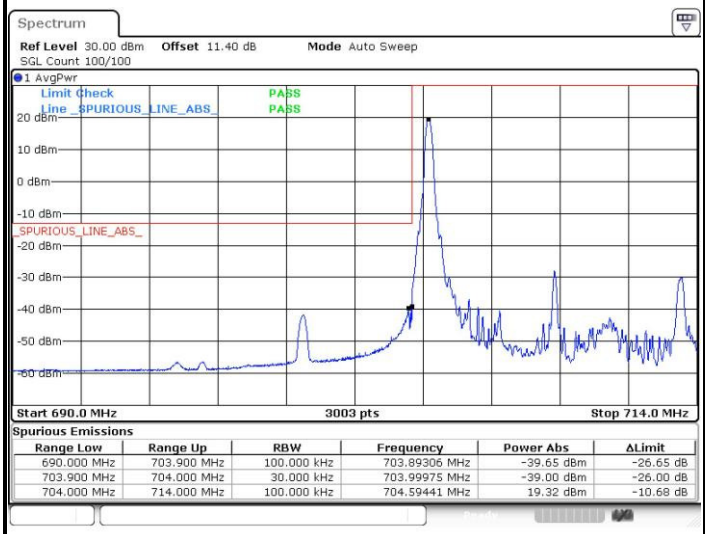
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	710.46054 MHz	3.82 dBm	-26.18 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00245 MHz	-39.81 dBm	-26.81 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-38.13 dBm	-25.13 dB

Date: 7.MAY.2016 18:17:07

LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

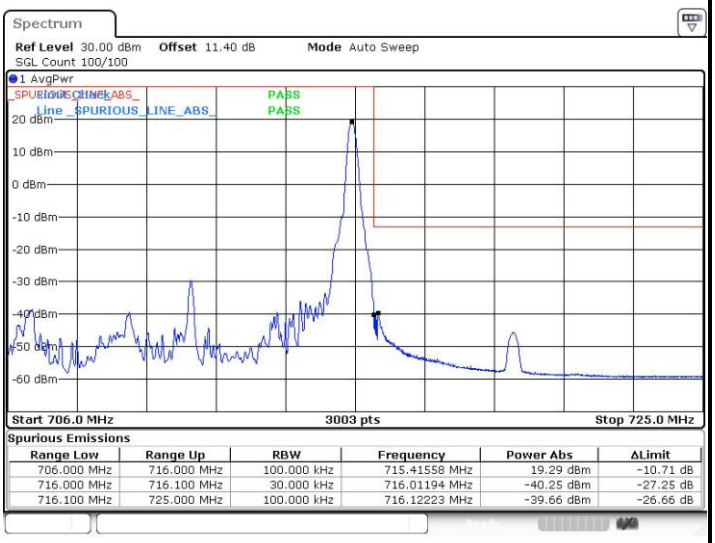


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-39.65 dBm	-26.65 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.99975 MHz	-39.00 dBm	-26.00 dB
704.000 MHz	714.000 MHz	100.000 kHz	704.59441 MHz	19.32 dBm	-10.68 dB

Date: 7.MAY.2016 18:01:27

Highest Band Edge / 1 RB

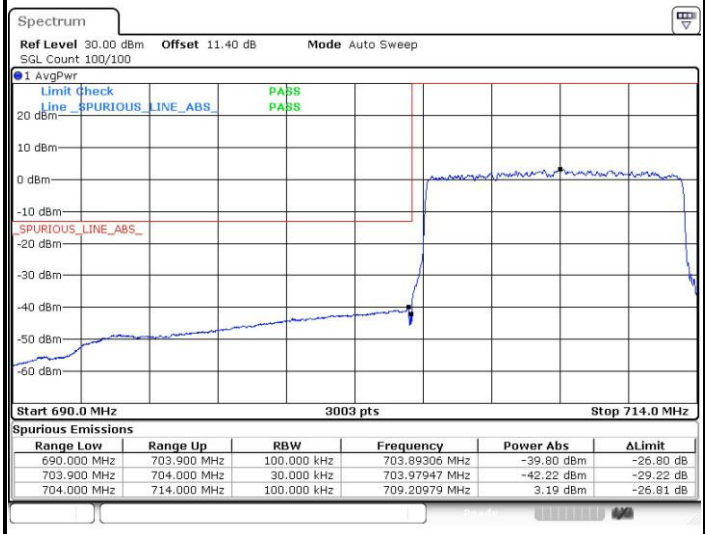


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.41558 MHz	19.29 dBm	-10.71 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01194 MHz	-40.25 dBm	-27.25 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.12223 MHz	-39.66 dBm	-26.66 dB

Date: 7.MAY.2016 18:15:05

Lowest Band Edge / Full RB

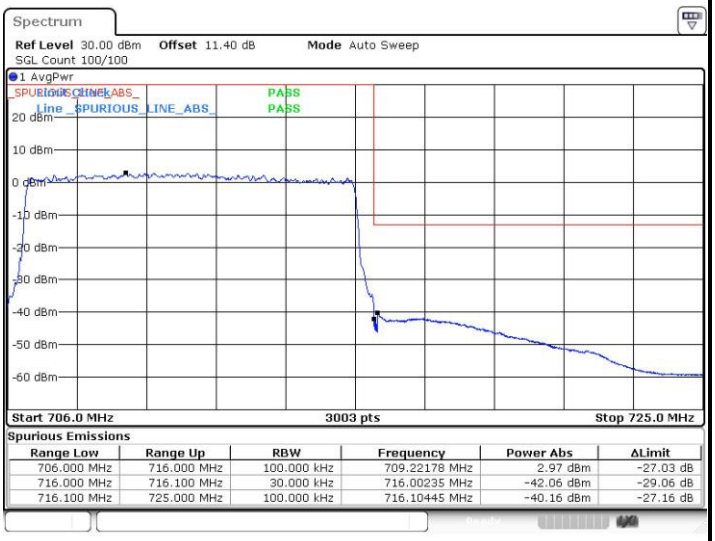


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	703.900 MHz	100.000 kHz	703.89306 MHz	-39.80 dBm	-26.80 dB
703.900 MHz	704.000 MHz	30.000 kHz	703.97947 MHz	-42.22 dBm	-29.22 dB
704.000 MHz	714.000 MHz	100.000 kHz	709.20979 MHz	3.19 dBm	-26.81 dB

Date: 7.MAY.2016 18:05:32

Highest Band Edge / Full RB



Spurious Emissions

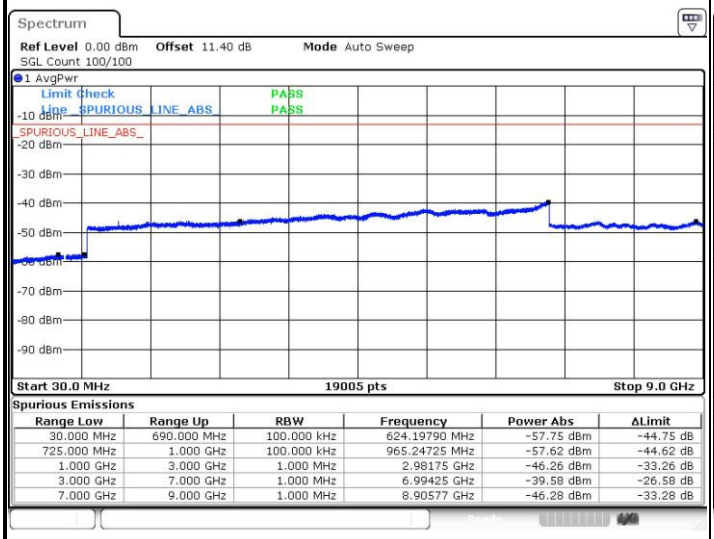
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	709.22178 MHz	2.97 dBm	-27.03 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00235 MHz	-42.06 dBm	-29.06 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-40.16 dBm	-27.16 dB

Date: 7.MAY.2016 18:19:10

Conducted Spurious Emission

LTE Band 17 / 5MHz

Lowest Channel / QPSK

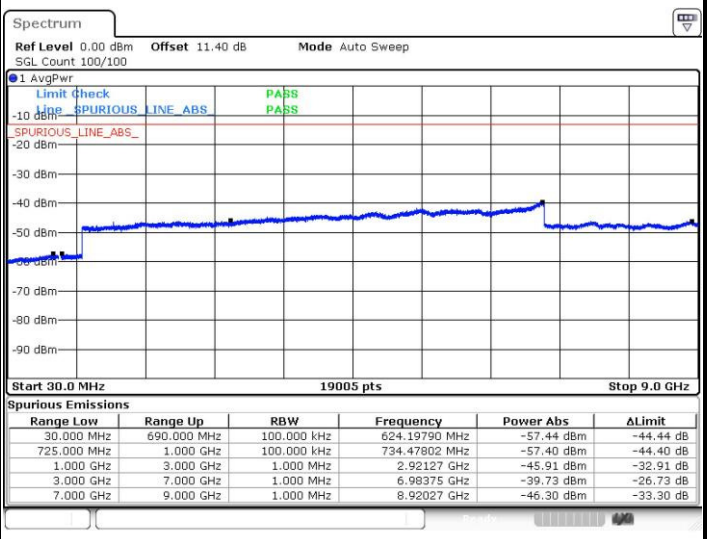


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	624.19790 MHz	-57.75 dBm	-44.75 dB
725.000 MHz	1.000 GHz	100.000 kHz	965.24725 MHz	-57.62 dBm	-44.62 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98175 GHz	-46.26 dBm	-33.26 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99425 GHz	-39.58 dBm	-26.58 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90577 GHz	-46.28 dBm	-33.28 dB

Date: 7.MAY.2016 17:41:57

Lowest Channel / 16QAM

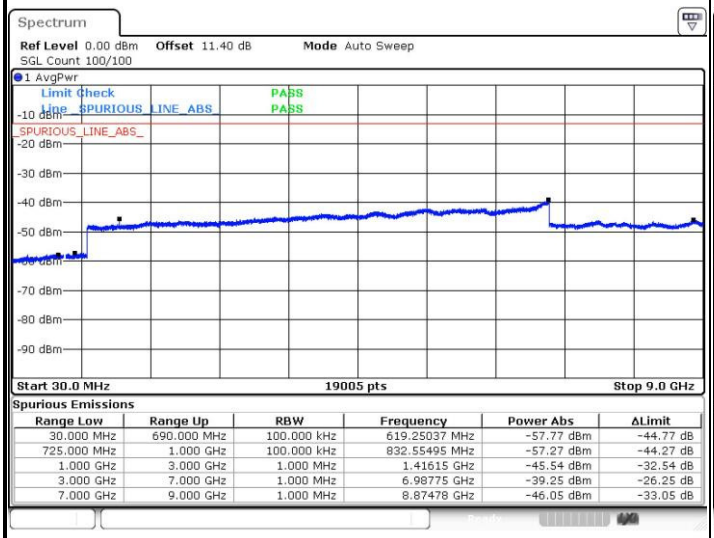


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	624.19790 MHz	-57.44 dBm	-44.44 dB
725.000 MHz	1.000 GHz	100.000 kHz	734.47802 MHz	-57.40 dBm	-44.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.92127 GHz	-45.91 dBm	-32.91 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98375 GHz	-39.73 dBm	-26.73 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.92027 GHz	-46.30 dBm	-33.30 dB

Date: 7.MAY.2016 17:42:56

Middle Channel / QPSK

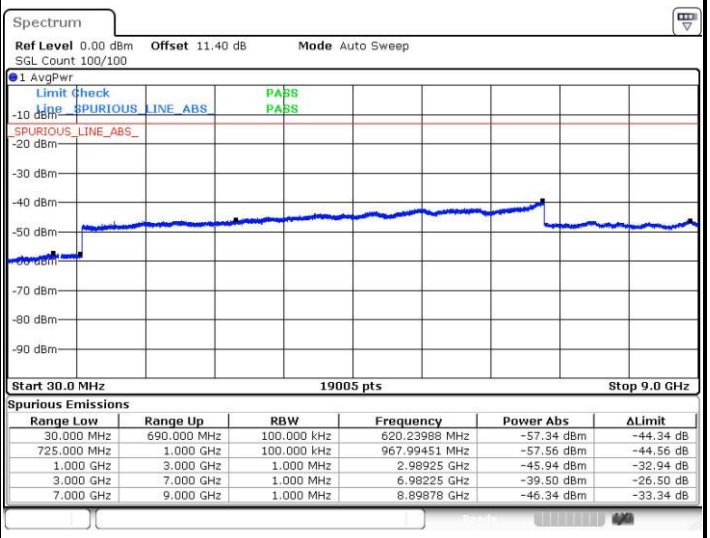


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	619.25037 MHz	-57.77 dBm	-44.77 dB
725.000 MHz	1.000 GHz	100.000 kHz	832.55495 MHz	-57.27 dBm	-44.27 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41615 GHz	-45.54 dBm	-32.54 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98775 GHz	-39.25 dBm	-26.25 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.87478 GHz	-46.05 dBm	-33.05 dB

Date: 7.MAY.2016 17:44:41

Middle Channel / 16QAM



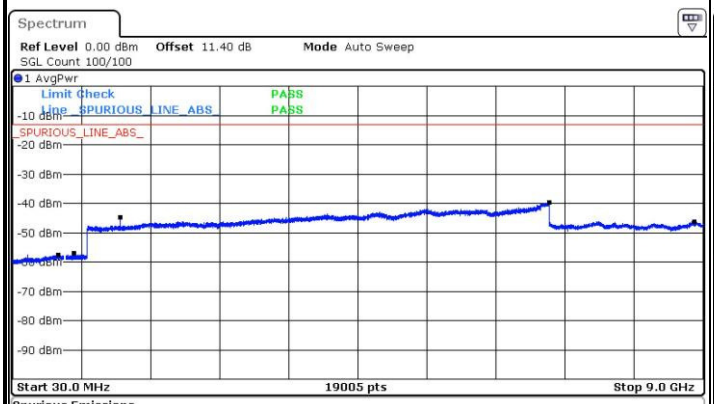
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	620.23988 MHz	-57.34 dBm	-44.34 dB
725.000 MHz	1.000 GHz	100.000 kHz	967.99451 MHz	-57.56 dBm	-44.56 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98925 GHz	-45.94 dBm	-32.94 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98225 GHz	-39.50 dBm	-26.50 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89878 GHz	-46.34 dBm	-33.34 dB

Date: 7.MAY.2016 17:45:40

LTE Band 17 / 5MHz

Highest Channel / QPSK

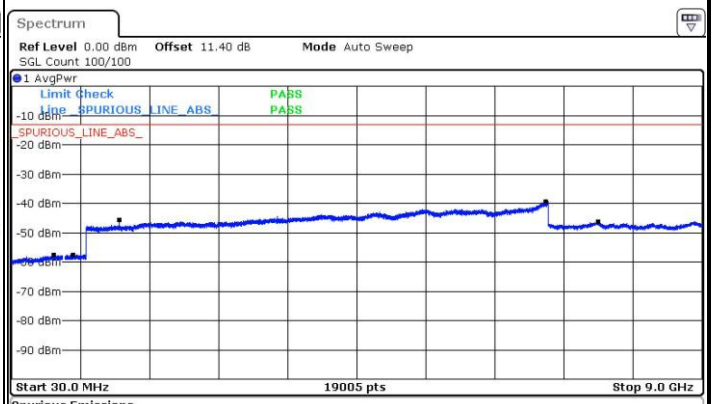


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	615.95202 MHz	-57.48 dBm	-44.48 dB
725.000 MHz	1.000 GHz	100.000 kHz	828.43407 MHz	-57.08 dBm	-44.08 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-44.64 dBm	-31.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99825 GHz	-39.66 dBm	-26.66 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88928 GHz	-46.18 dBm	-33.18 dB

Date: 7.MAY.2016 17:55:35

Highest Channel / 16QAM



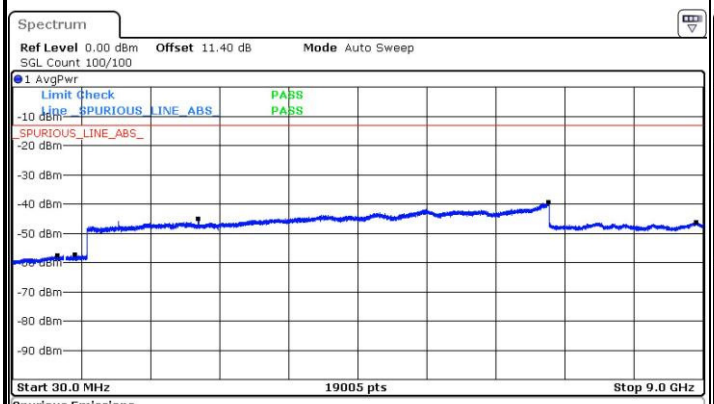
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	576.37181 MHz	-57.61 dBm	-44.61 dB
725.000 MHz	1.000 GHz	100.000 kHz	828.43407 MHz	-57.50 dBm	-44.50 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-45.53 dBm	-32.53 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96725 GHz	-39.49 dBm	-26.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.64659 GHz	-46.37 dBm	-33.37 dB

Date: 7.MAY.2016 17:56:34

LTE Band 17 / 10MHz

Lowest Channel / QPSK

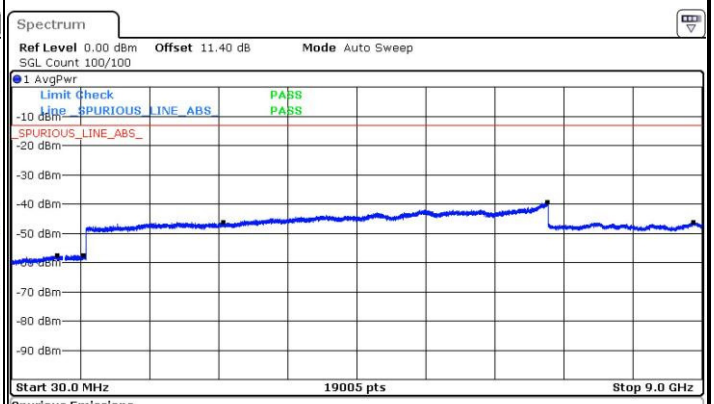


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	613.97301 MHz	-57.68 dBm	-44.68 dB
725.000 MHz	1.000 GHz	100.000 kHz	836.40110 MHz	-57.19 dBm	-44.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.44039 GHz	-45.18 dBm	-32.18 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99525 GHz	-39.51 dBm	-26.51 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90927 GHz	-46.27 dBm	-33.27 dB

Date: 7.MAY.2016 18:06:29

Lowest Channel / 16QAM



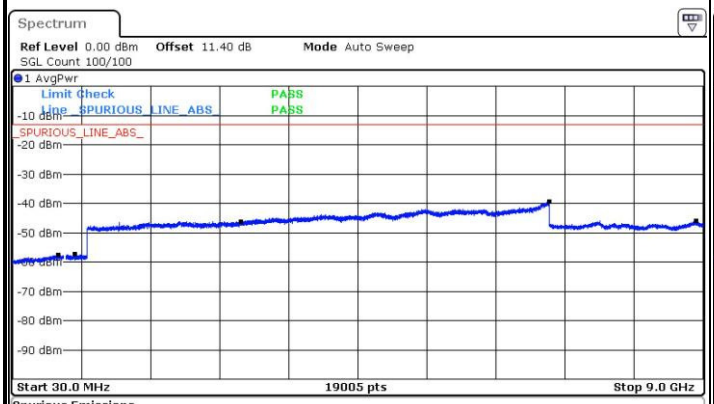
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	623.86807 MHz	-57.75 dBm	-44.75 dB
725.000 MHz	1.000 GHz	100.000 kHz	957.82967 MHz	-57.50 dBm	-44.50 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.77481 GHz	-46.19 dBm	-33.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98475 GHz	-39.50 dBm	-26.50 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89178 GHz	-46.14 dBm	-33.14 dB

Date: 7.MAY.2016 18:07:28

LTE Band 17 / 10MHz

Middle Channel / QPSK

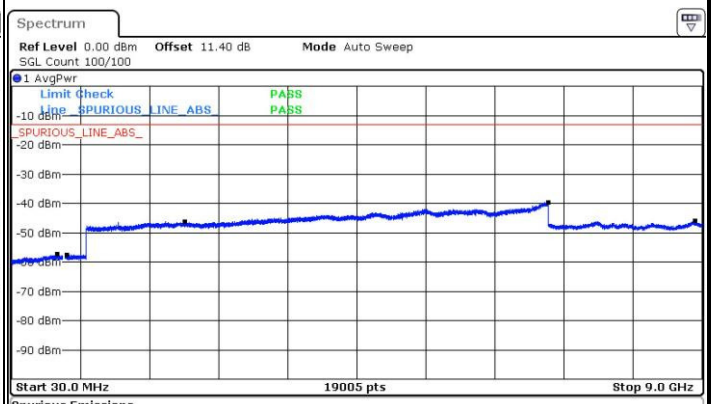


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	622.87856 MHz	-57.74 dBm	-44.74 dB
725.000 MHz	1.000 GHz	100.000 kHz	835.30220 MHz	-57.19 dBm	-44.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99925 GHz	-46.19 dBm	-33.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99975 GHz	-39.49 dBm	-26.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90327 GHz	-46.00 dBm	-33.00 dB

Date: 7.MAY.2016 18:09:13

Middle Channel / 16QAM

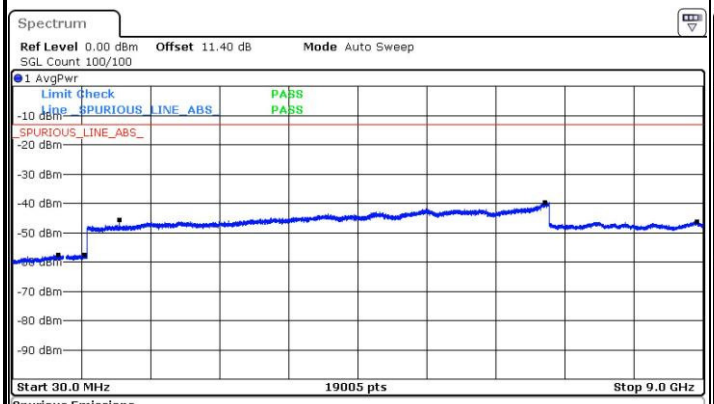


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	622.87856 MHz	-57.42 dBm	-44.42 dB
725.000 MHz	1.000 GHz	100.000 kHz	742.17033 MHz	-57.58 dBm	-44.58 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.28293 GHz	-46.14 dBm	-33.14 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99875 GHz	-39.67 dBm	-26.67 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.91377 GHz	-46.11 dBm	-33.11 dB

Date: 7.MAY.2016 18:10:12

Highest Channel / QPSK

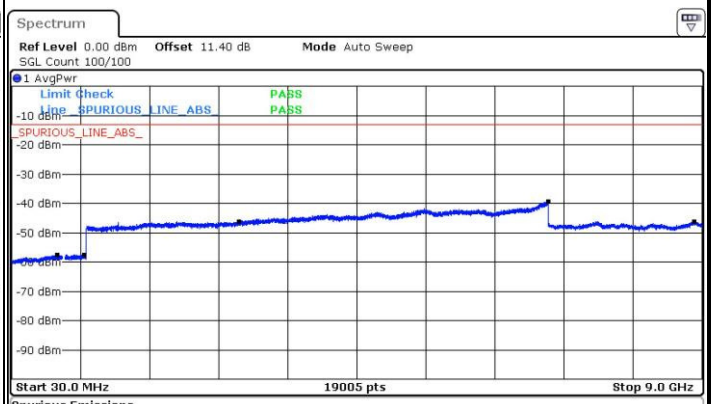


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	621.55922 MHz	-57.63 dBm	-44.63 dB
725.000 MHz	1.000 GHz	100.000 kHz	958.92857 MHz	-57.47 dBm	-44.47 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-45.54 dBm	-32.54 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93926 GHz	-39.58 dBm	-26.58 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.91477 GHz	-46.16 dBm	-33.16 dB

Date: 7.MAY.2016 18:20:08

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	621.55922 MHz	-57.68 dBm	-44.68 dB
725.000 MHz	1.000 GHz	100.000 kHz	975.68681 MHz	-57.54 dBm	-44.54 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97926 GHz	-46.16 dBm	-33.16 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99675 GHz	-39.40 dBm	-26.40 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89528 GHz	-46.29 dBm	-33.29 dB

Date: 7.MAY.2016 18:21:06

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	0.0010	PASS
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0141	
-10	Normal Voltage	0.0020	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0132	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0158	

Note:

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) = 3.4 V.；Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.

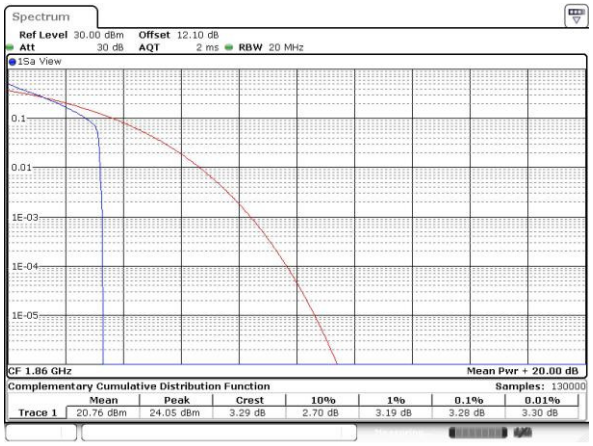
LTE Band 25

Peak-to-Average Ratio

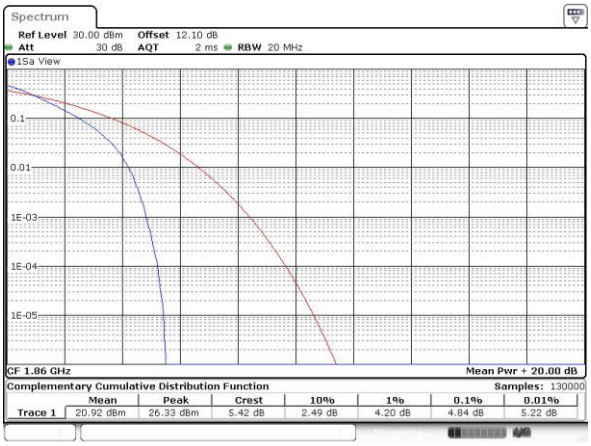
Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.28	4.84	4.35	5.51	PASS
Middle CH	3.25	4.72	4.17	5.71	
Highest CH	3.07	4.61	3.57	5.62	

LTE Band 25 / 20MHz / QPSK

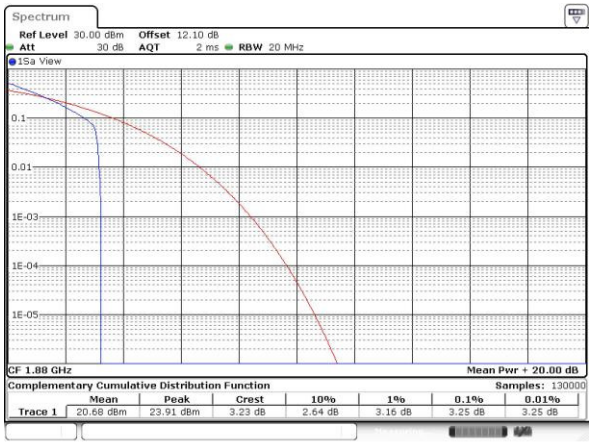
Lowest Channel / 1RB



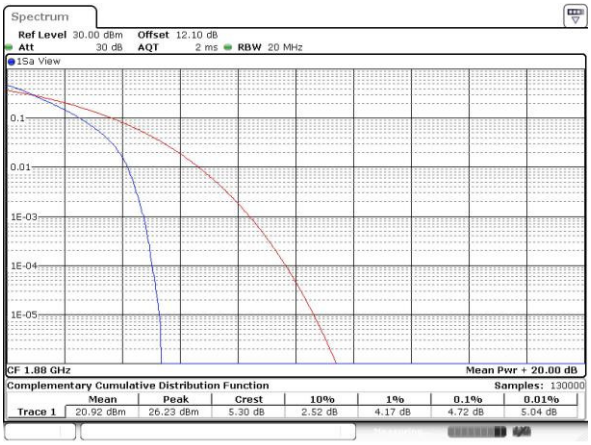
Lowest Channel / Full RB



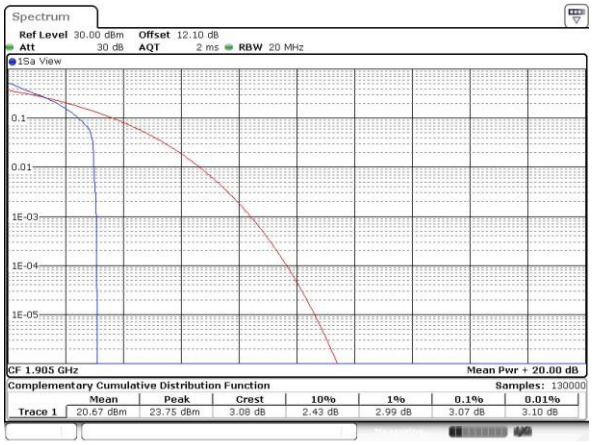
Middle Channel / 1RB



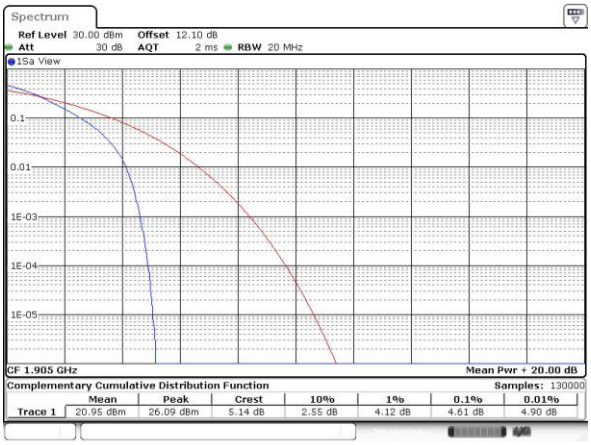
Middle Channel / Full RB



Highest Channel / 1RB

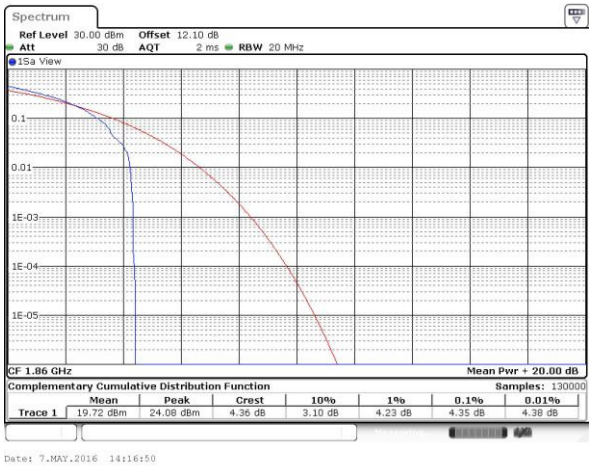


Highest Channel / Full RB

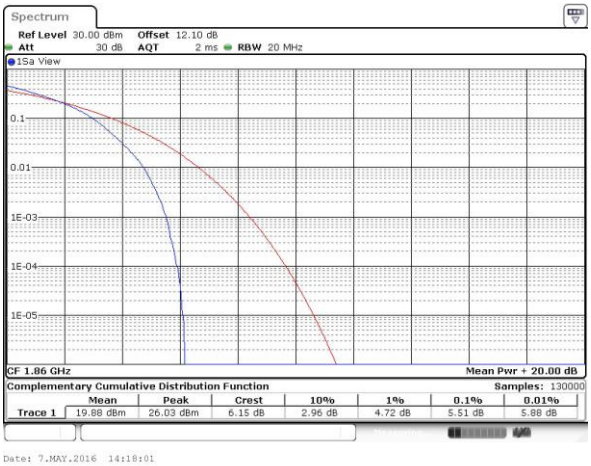


LTE Band 25 / 20MHz / 16QAM

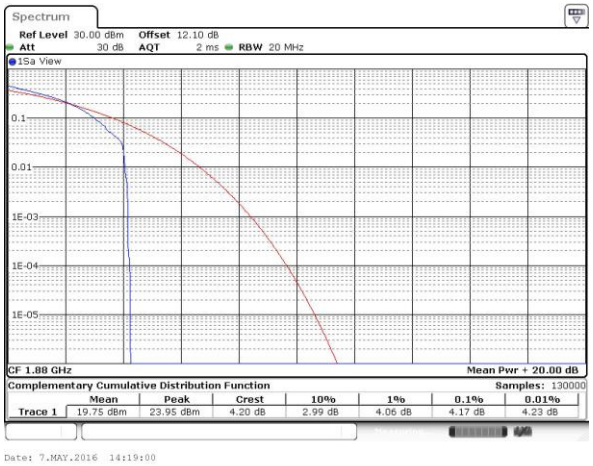
Lowest Channel / 1RB



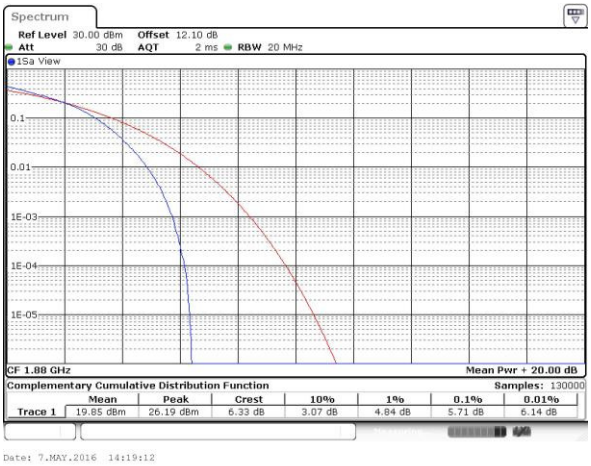
Lowest Channel / Full RB



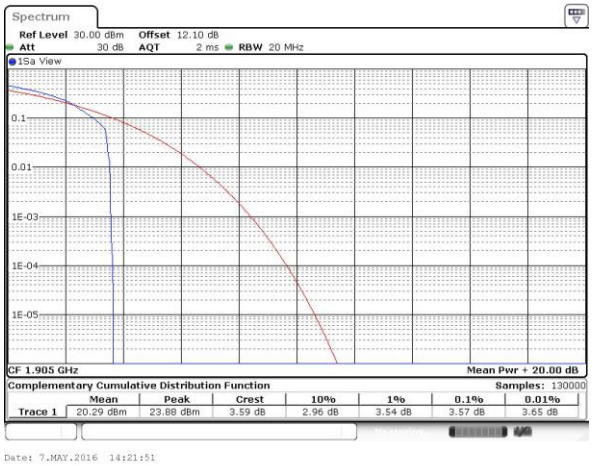
Middle Channel / 1RB



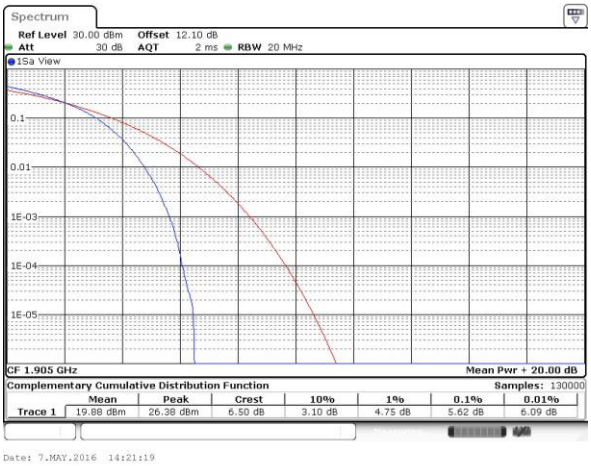
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

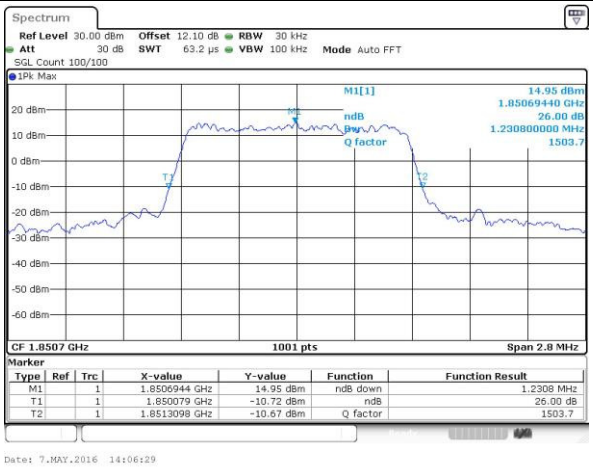


26dB Bandwidth

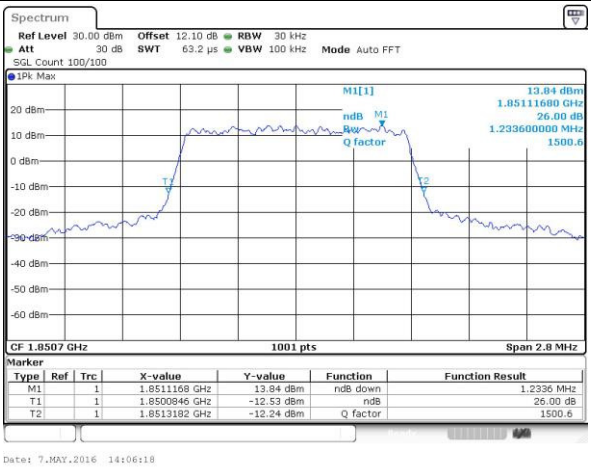
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.23	3.02	3.03	4.91	4.91	9.83	9.63	14.51	14.39	20.10	20.18
Middle CH	1.24	1.23	3.09	3.09	4.93	4.84	9.71	9.63	14.45	14.36	20.26	20.18
Highest CH	1.24	1.23	3.02	2.97	4.88	4.87	9.75	9.87	14.54	14.42	20.30	20.22

LTE Band 25

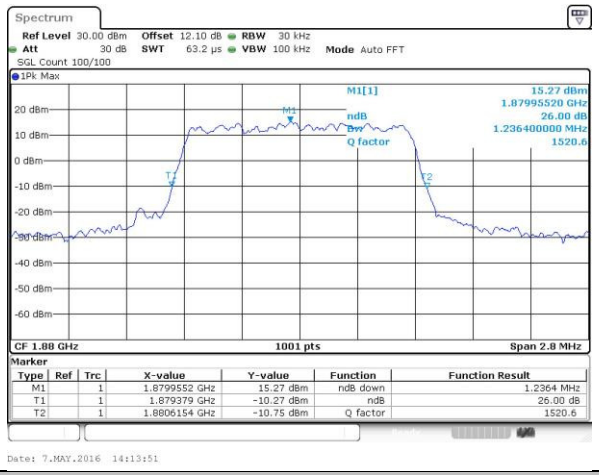
Lowest Channel / 1.4MHz / QPSK



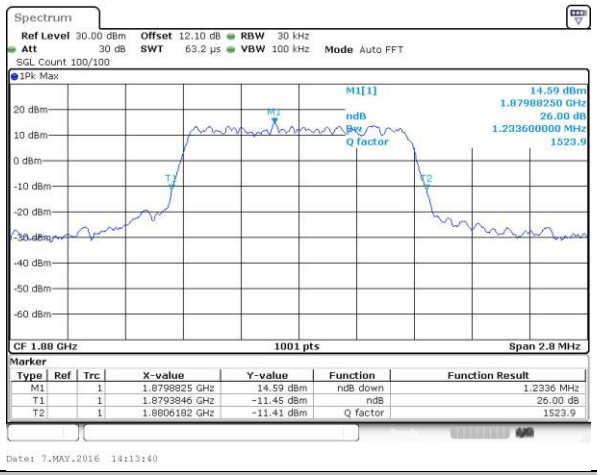
Lowest Channel / 1.4MHz / 16QAM



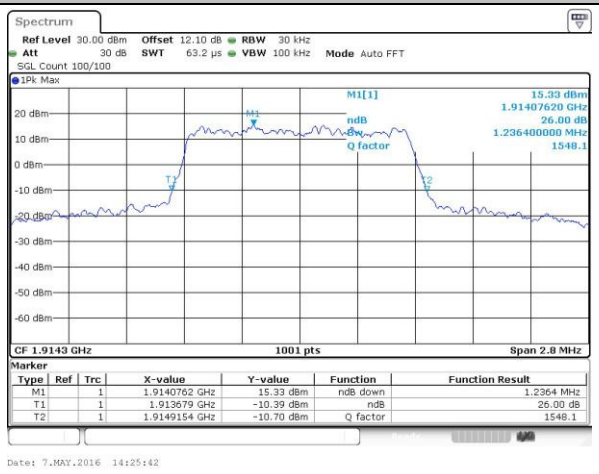
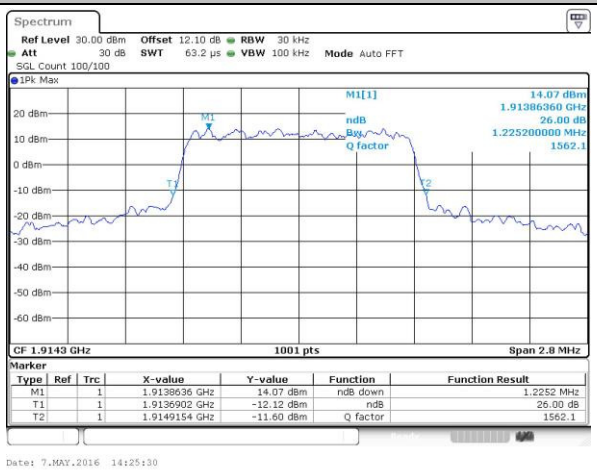
Middle Channel / 1.4MHz / QPSK



Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



Highest Channel / 1.4MHz / 16QAM