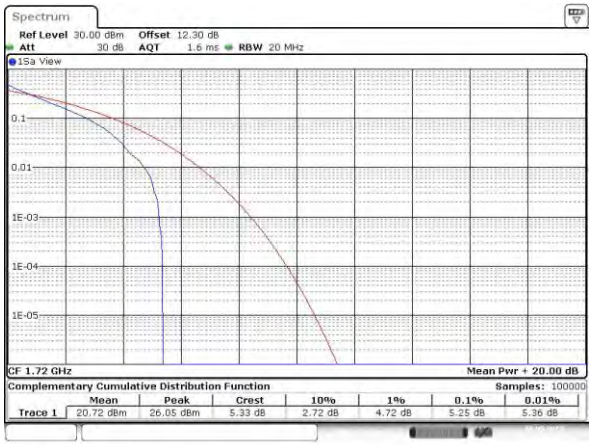
LTE Band 4

Peak-to-Average Ratio

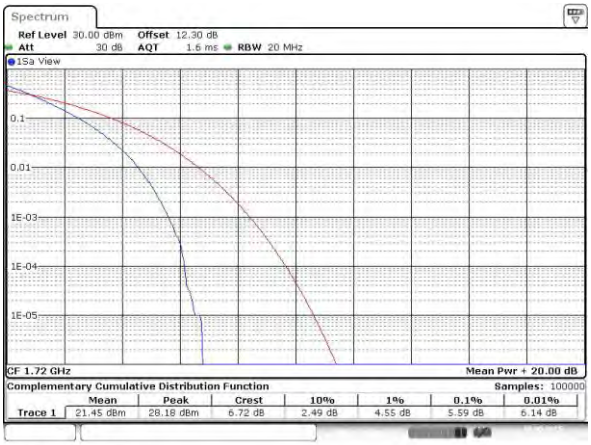
Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.25	5.59	6.14	6.55	PASS
Middle CH	5.45	5.51	6.46	6.46	
Highest CH	5.28	5.71	5.65	6.75	

LTE Band 4 / 20MHz / QPSK

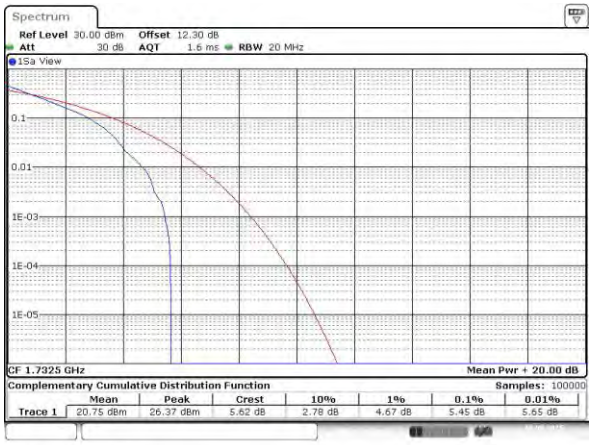
Lowest Channel / 1RB



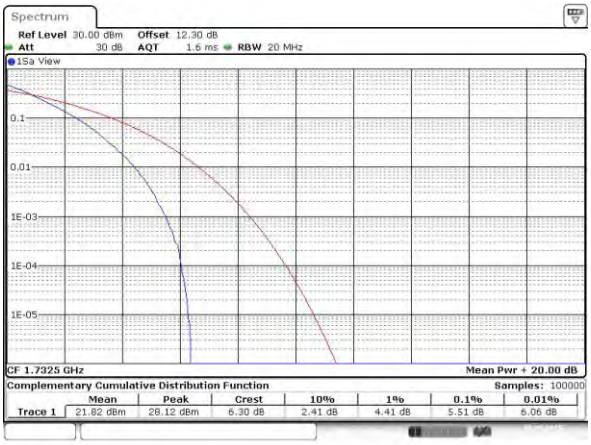
Lowest Channel / Full RB



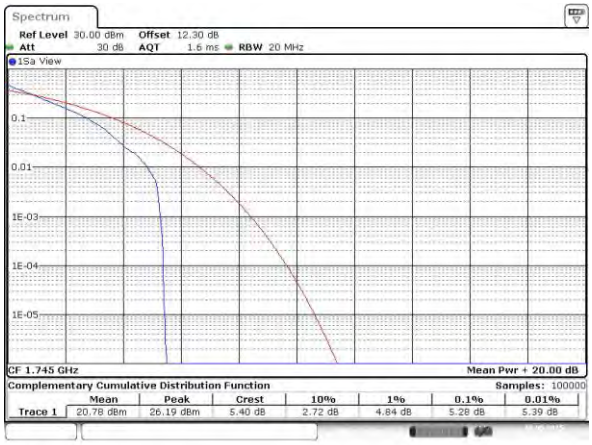
Middle Channel / 1RB



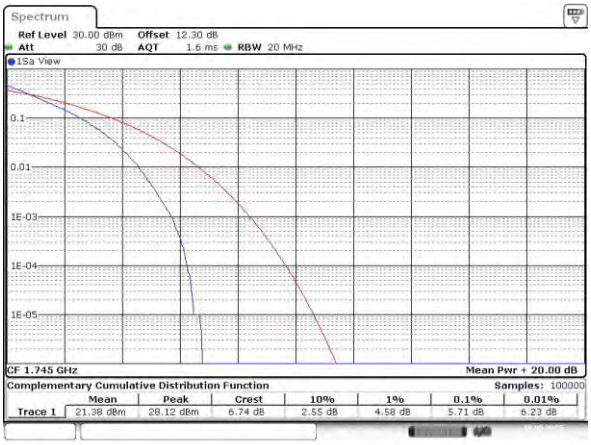
Middle Channel / Full RB



Highest Channel / 1RB

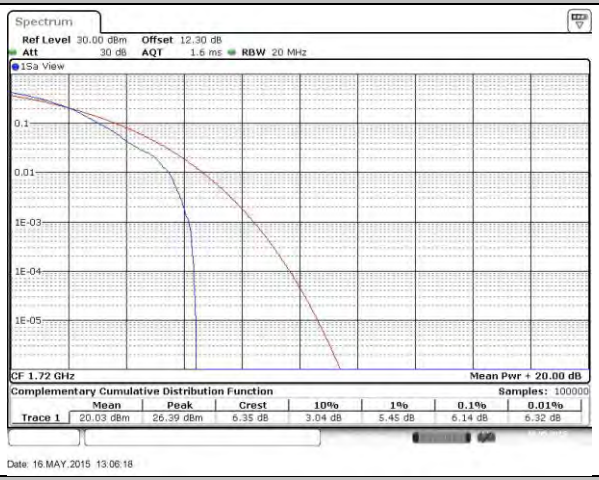


Highest Channel / Full RB

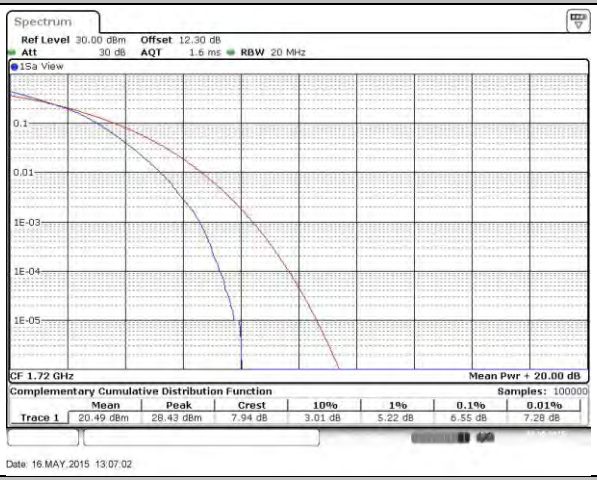


LTE Band 4 / 20MHz / 16QAM

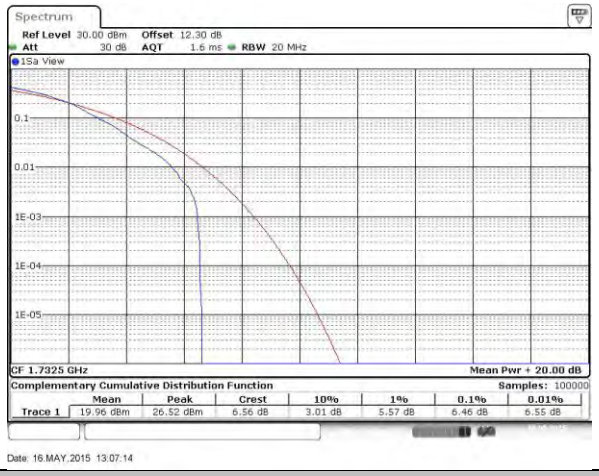
Lowest Channel / 1RB



Lowest Channel / Full RB

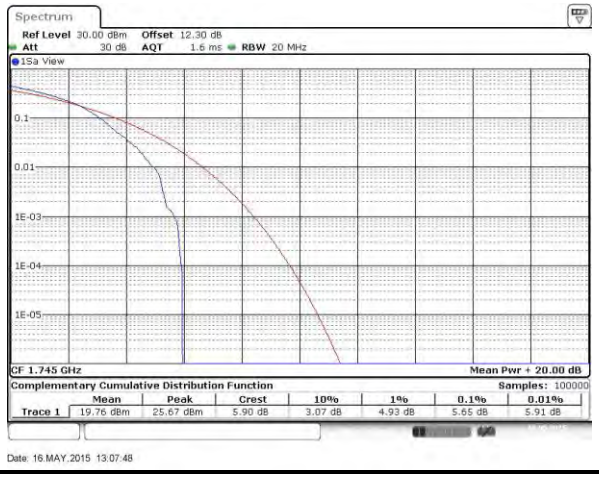


Middle Channel / 1RB

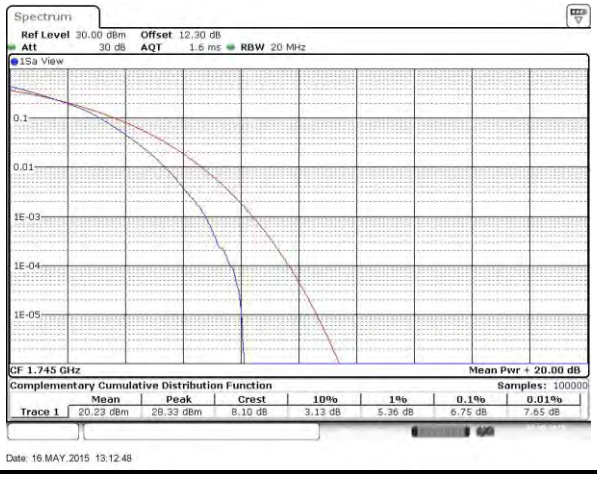


Middle Channel / Full RB

Highest Channel / 1RB



Highest Channel / Full RB

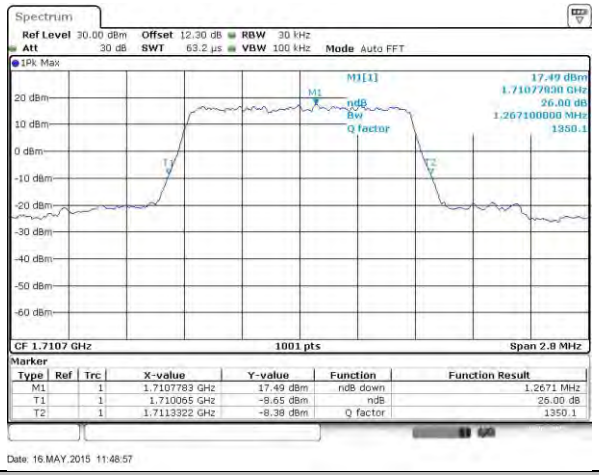


26dB Bandwidth

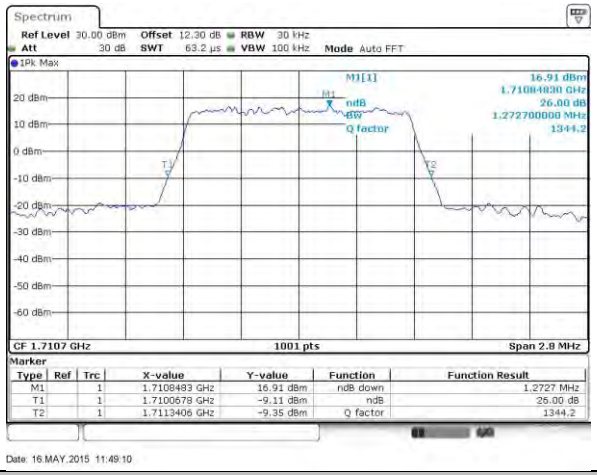
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.27	1.27	3.03	3.04	5.09	5.07	10.03	10.03	14.81	14.66	20.30	20.62
Middle CH	1.27	1.28	3.01	3.03	5.09	5.08	10.05	10.03	14.84	14.87	20.34	20.38
Highest CH	1.26	1.28	3.02	3.03	5.06	5.09	9.93	9.99	14.63	14.87	20.50	20.34

LTE Band 4

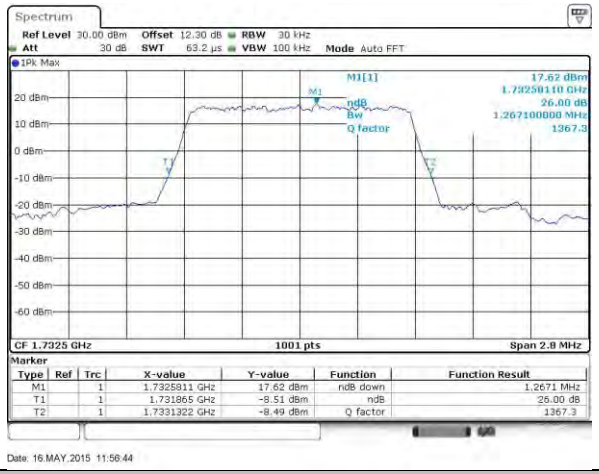
Lowest Channel / 1.4MHz / QPSK



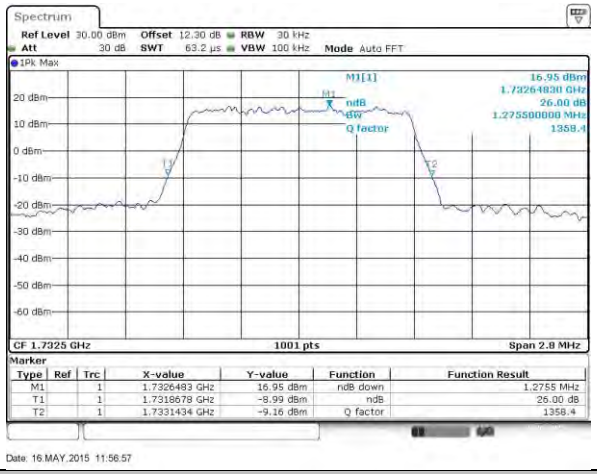
Lowest Channel / 1.4MHz / 16QAM



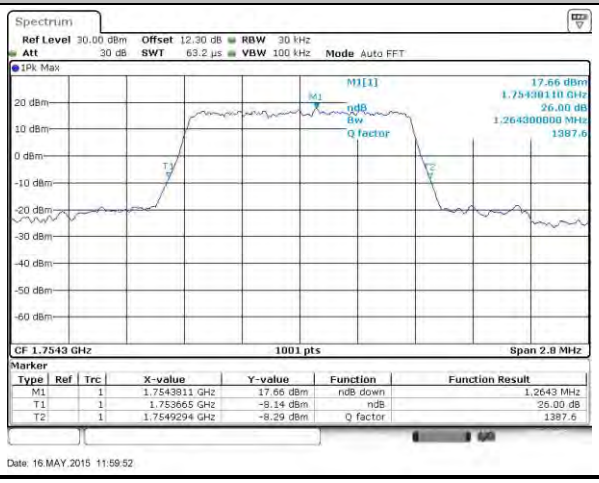
Middle Channel / 1.4MHz / QPSK



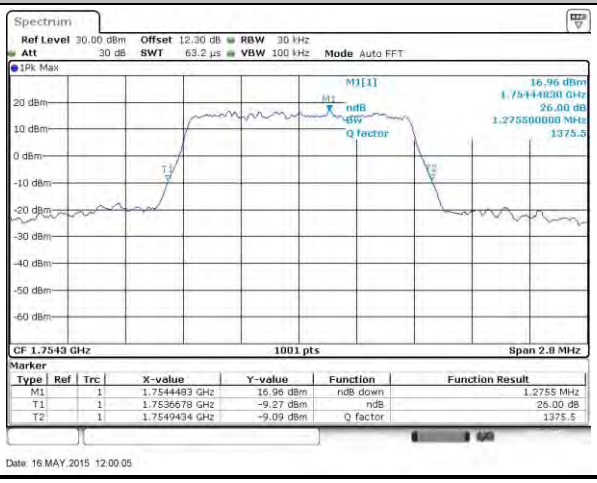
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

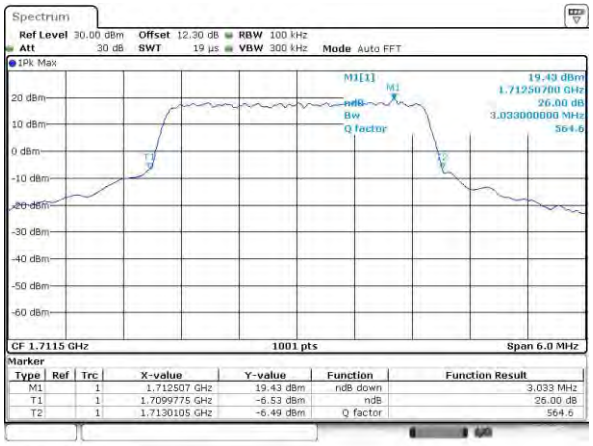


Highest Channel / 1.4MHz / 16QAM

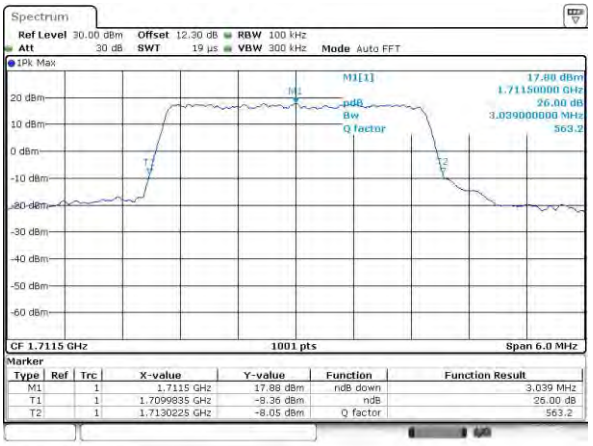


LTE Band 4

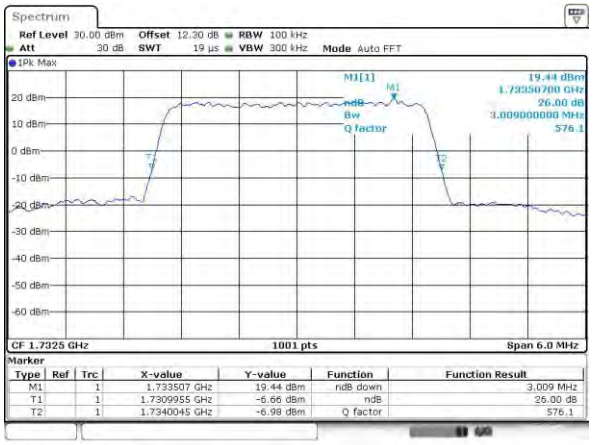
Lowest Channel / 3MHz / QPSK



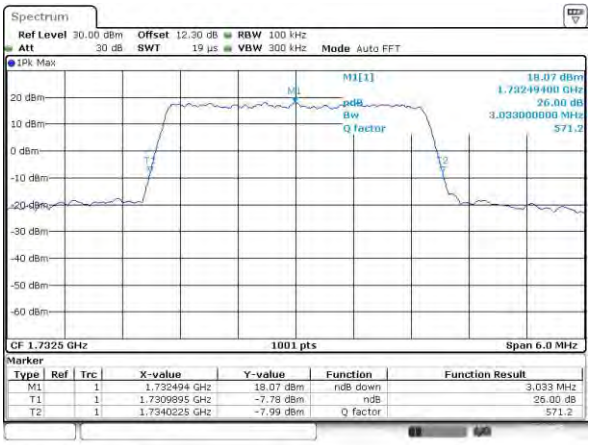
Lowest Channel / 3MHz / 16QAM



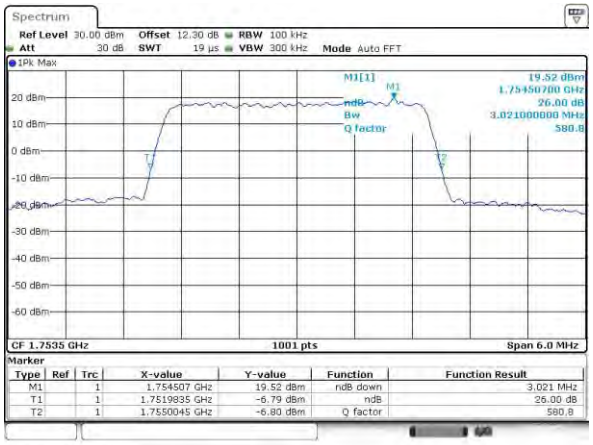
Middle Channel / 3MHz / QPSK



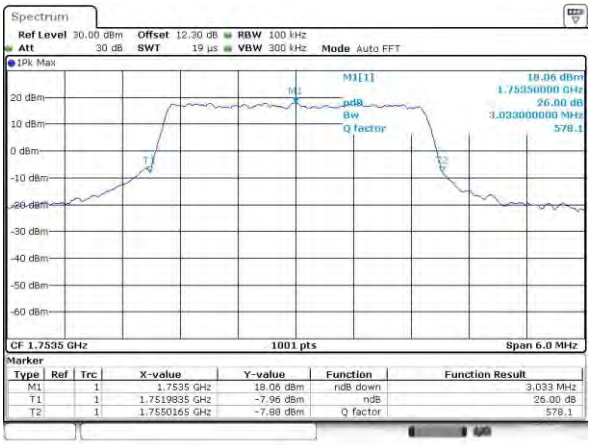
Middle Channel /3MHz / 16QAM



Highest Channel /3MHz / QPSK

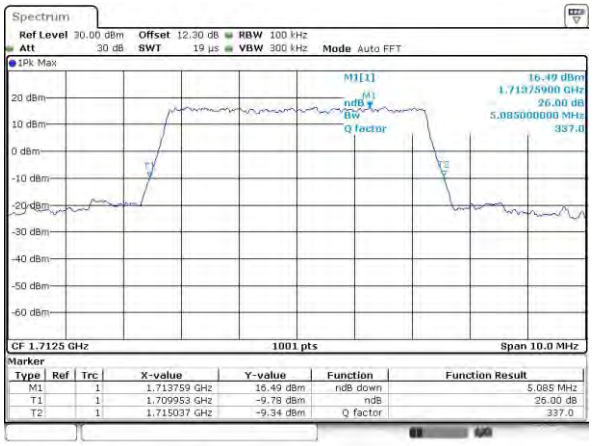


Highest Channel /3MHz / 16QAM

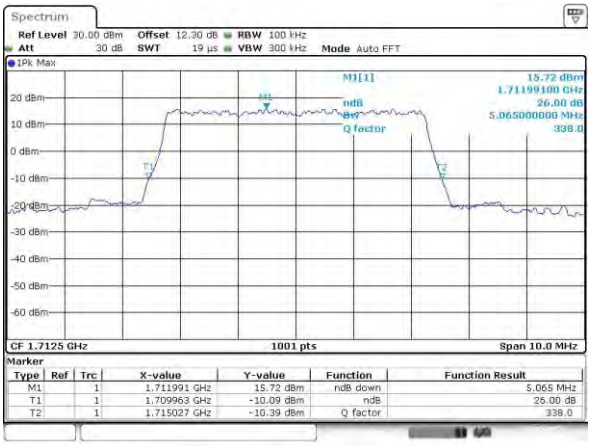


LTE Band 4

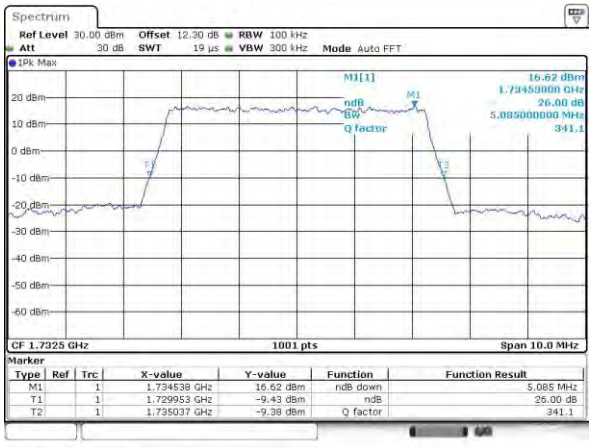
Lowest Channel / 5MHz / QPSK



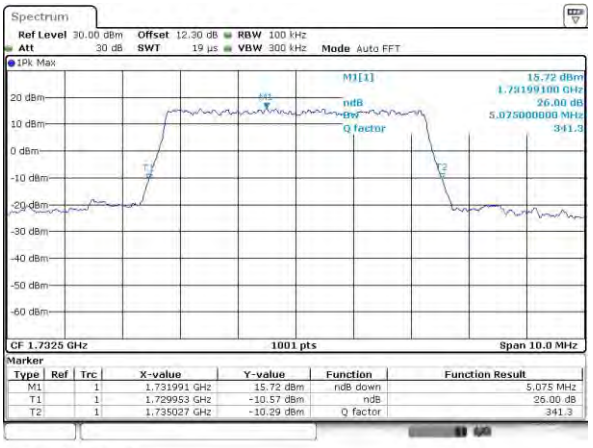
Lowest Channel / 5MHz / 16QAM



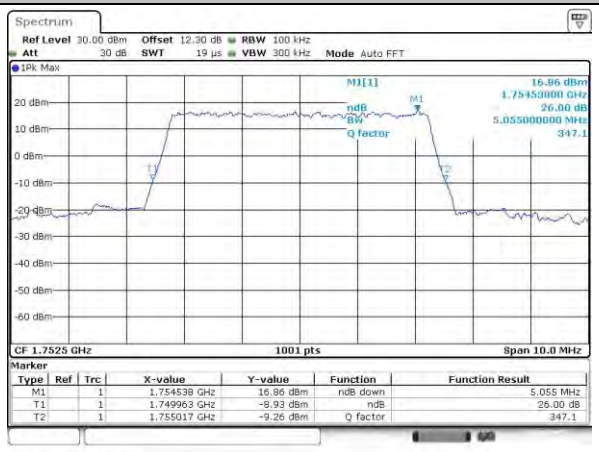
Middle Channel / 5MHz / QPSK



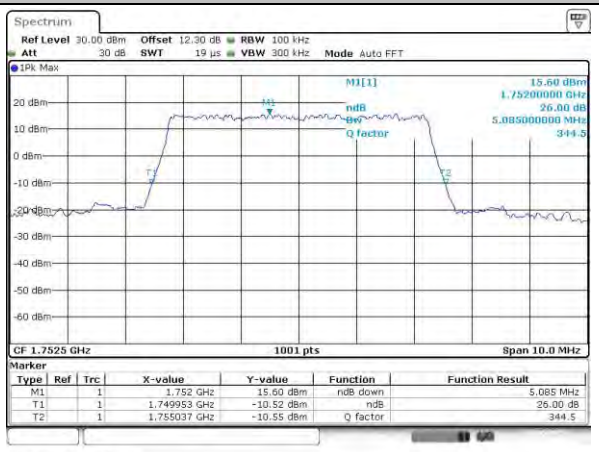
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

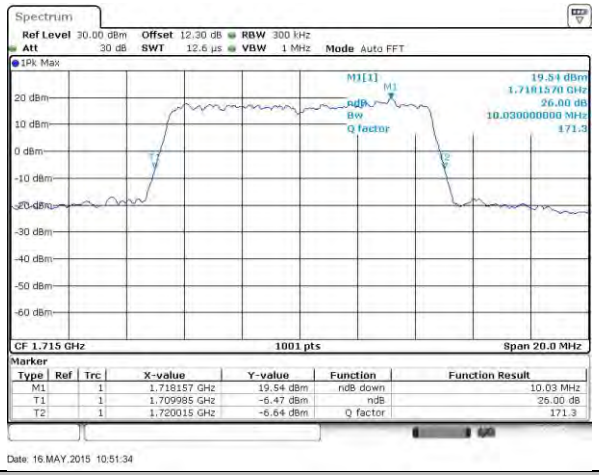


Highest Channel / 5MHz / 16QAM

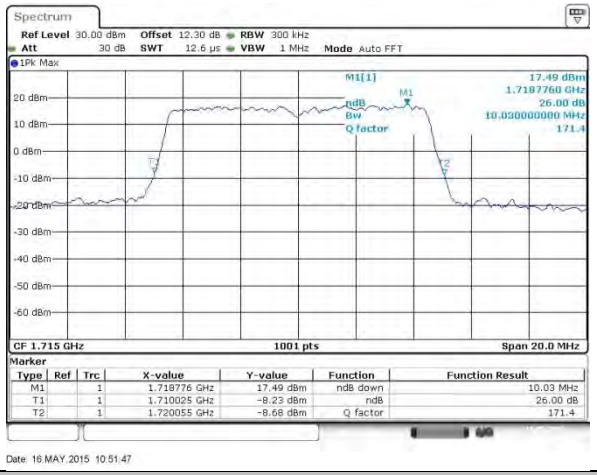


LTE Band 4

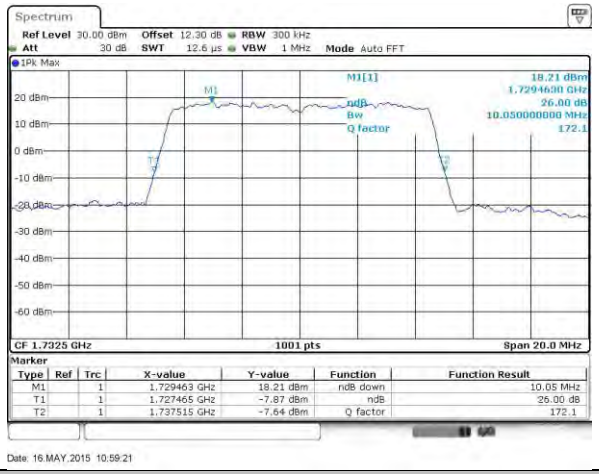
Lowest Channel / 10MHz / QPSK



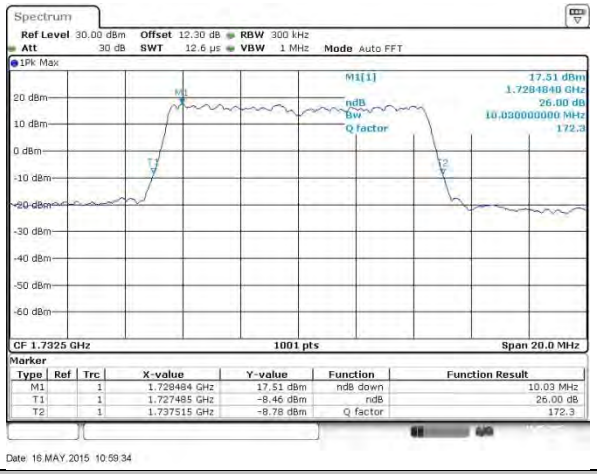
Lowest Channel / 10MHz / 16QAM



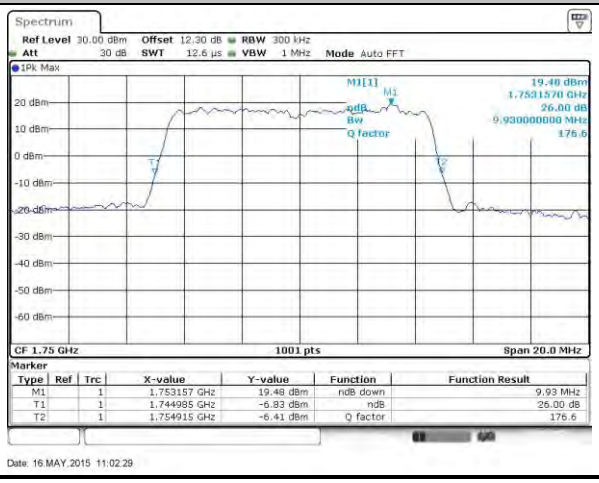
Middle Channel / 10MHz / QPSK



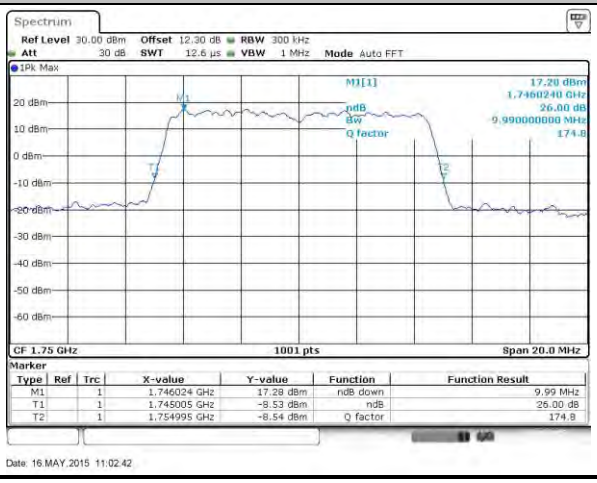
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

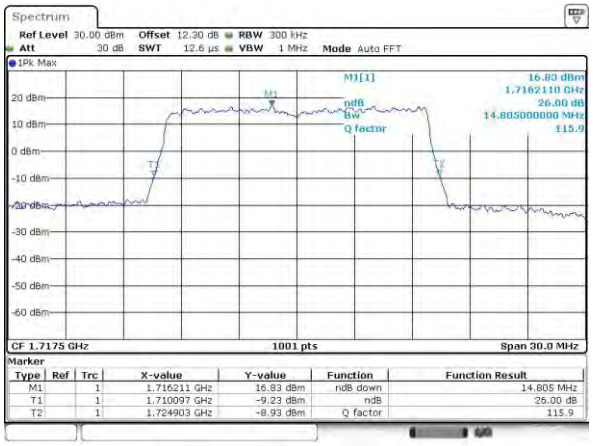


Highest Channel / 10MHz / 16QAM

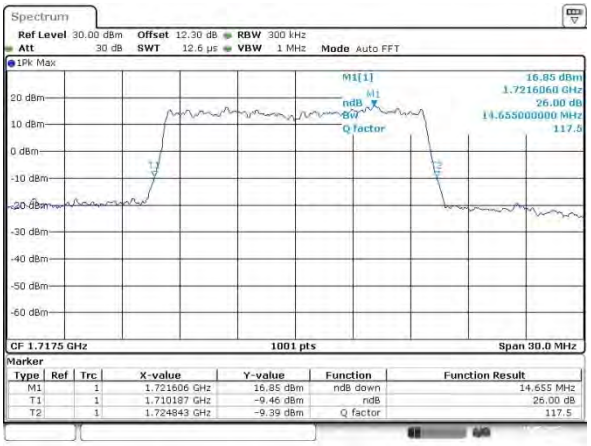


LTE Band 4

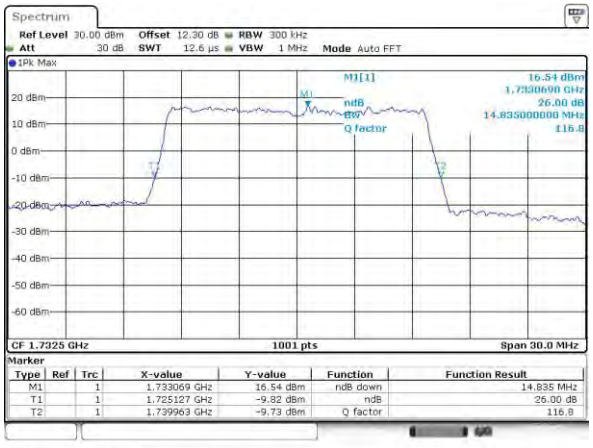
Lowest Channel / 15MHz / QPSK



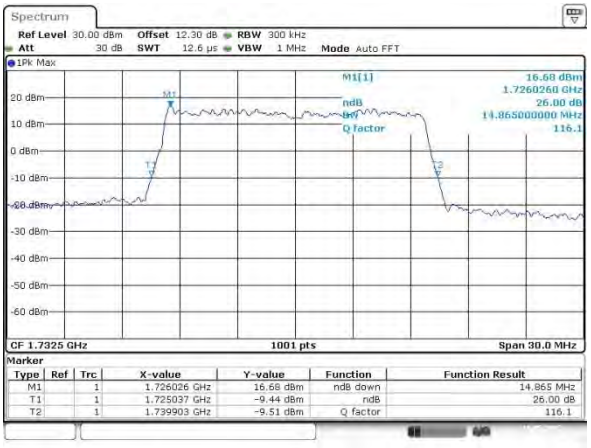
Lowest Channel / 15MHz / 16QAM



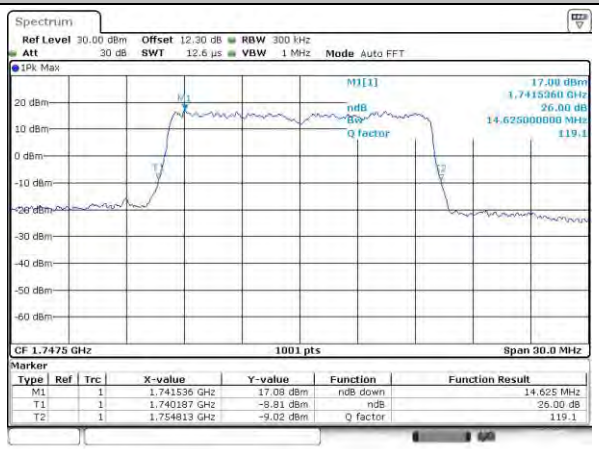
Middle Channel / 15MHz / QPSK



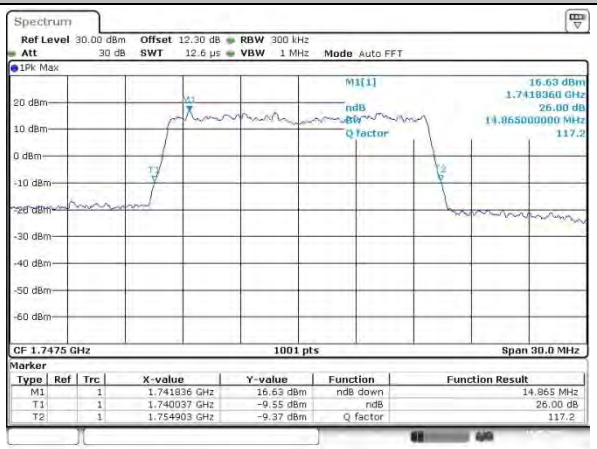
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

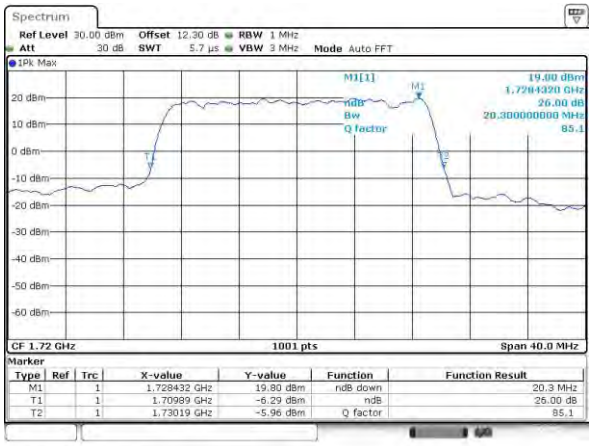


Highest Channel / 15MHz / 16QAM

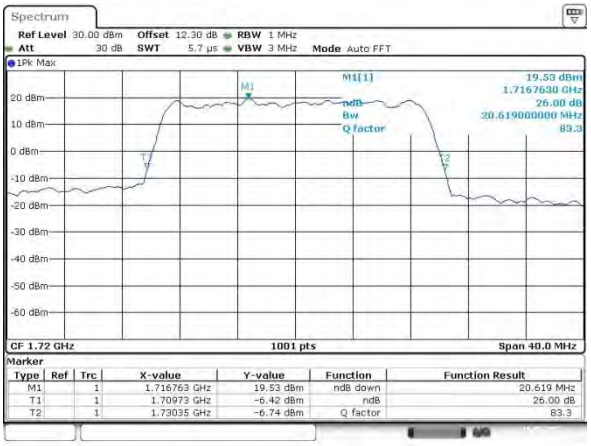


LTE Band 4

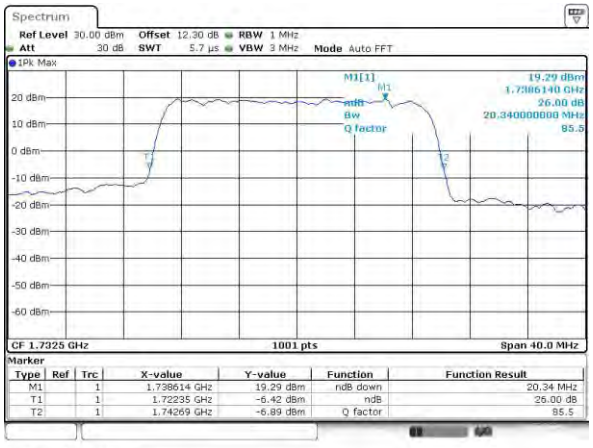
Lowest Channel / 20MHz / QPSK



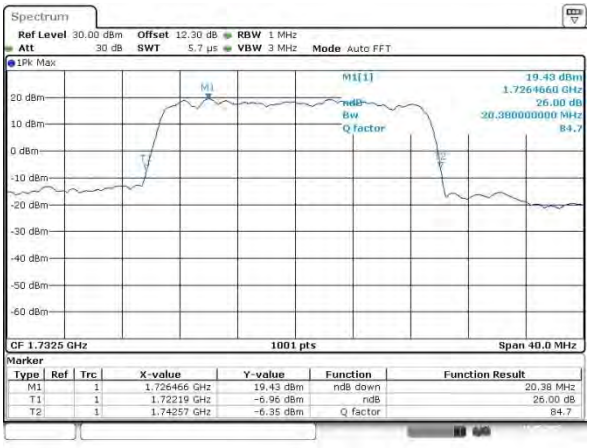
Lowest Channel / 20MHz / 16QAM



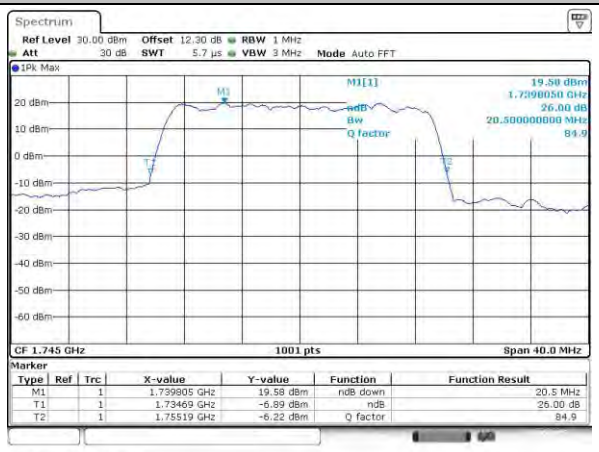
Middle Channel / 20MHz / QPSK



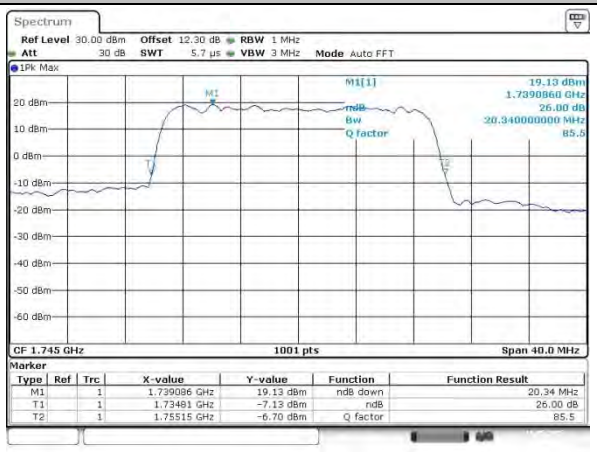
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM

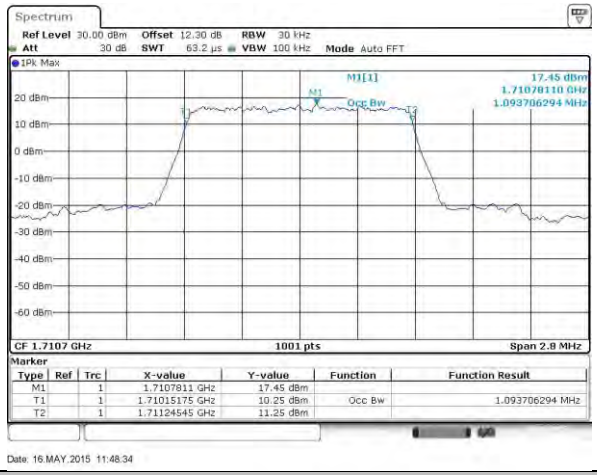


Occupied Bandwidth

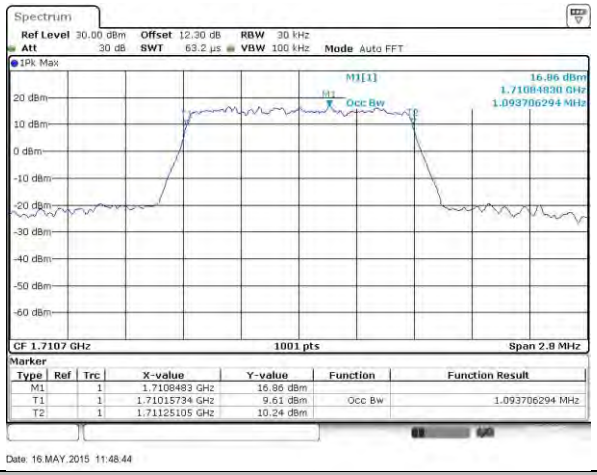
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.73	2.73	4.5	4.5	9.07	9.01	13.52	13.49	18.38	18.46
Middle CH	1.09	1.09	2.72	2.73	4.51	4.51	9.07	9.01	13.46	13.46	18.46	18.34
Highest CH	1.09	1.1	2.72	2.72	4.51	4.5	9.05	9.03	13.52	13.52	18.42	18.42

LTE Band 4

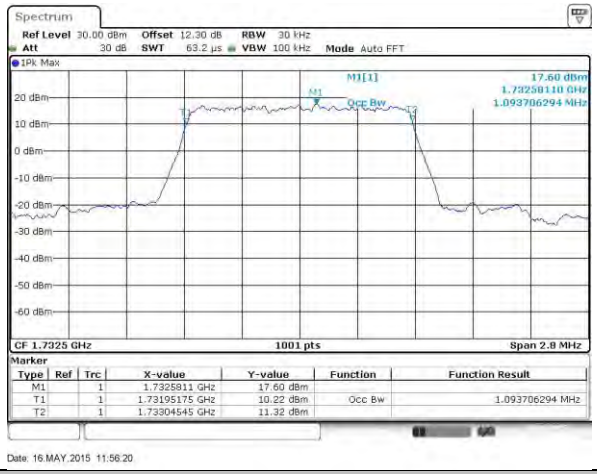
Lowest Channel / 1.4MHz / QPSK



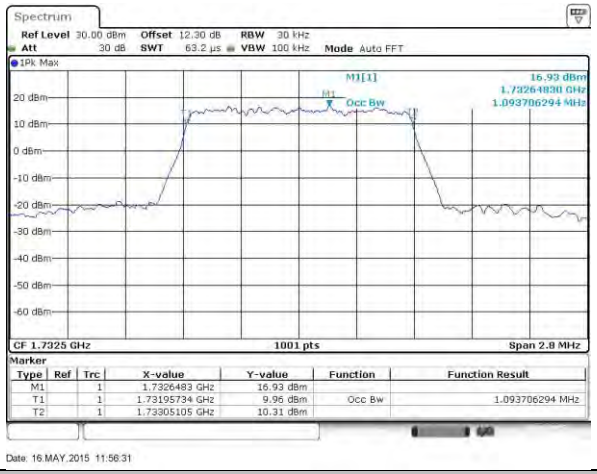
Lowest Channel / 1.4MHz / 16QAM



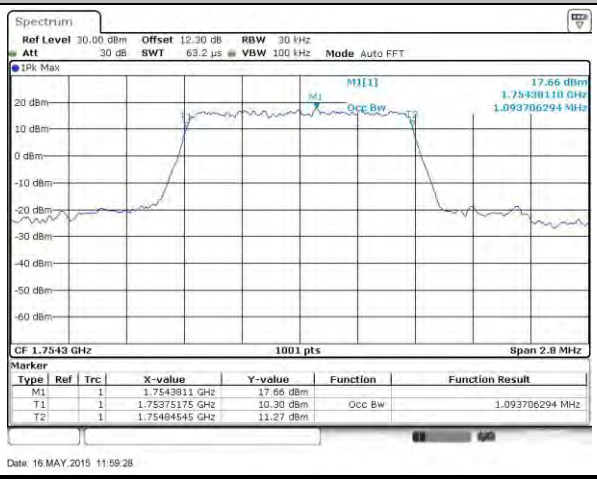
Middle Channel / 1.4MHz / QPSK



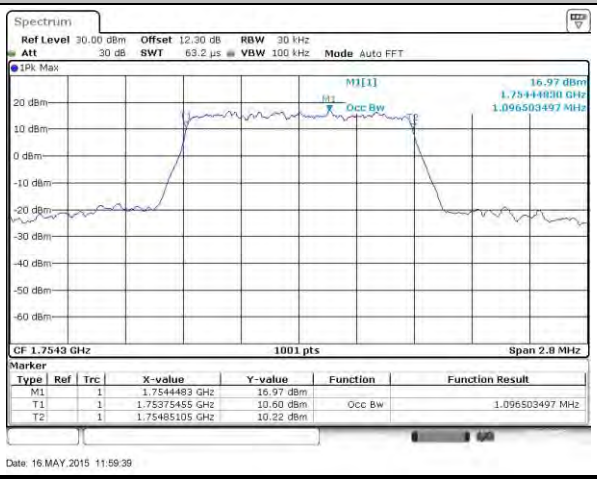
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

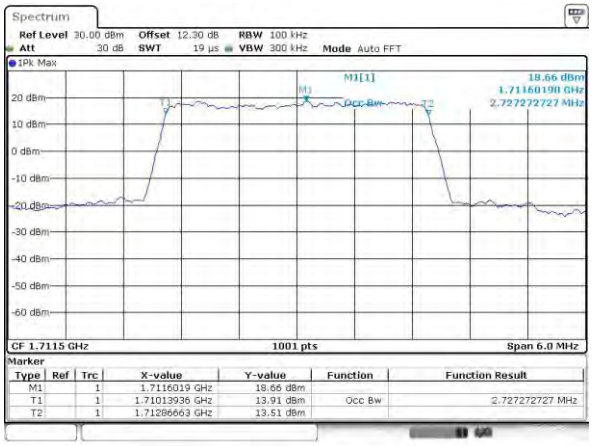


Highest Channel / 1.4MHz / 16QAM

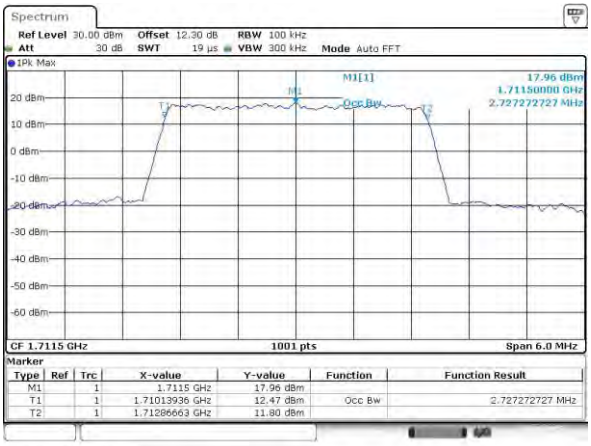


LTE Band 4

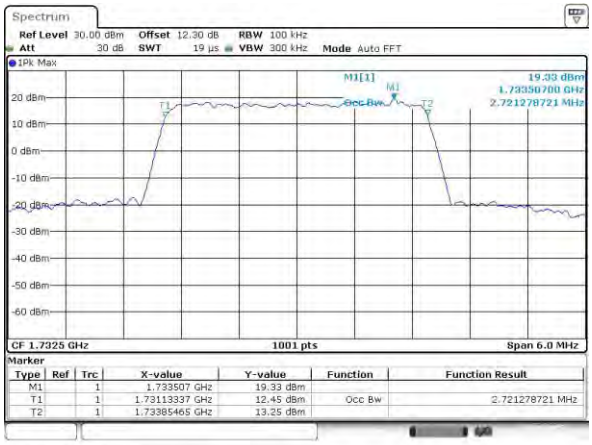
Lowest Channel / 3MHz / QPSK



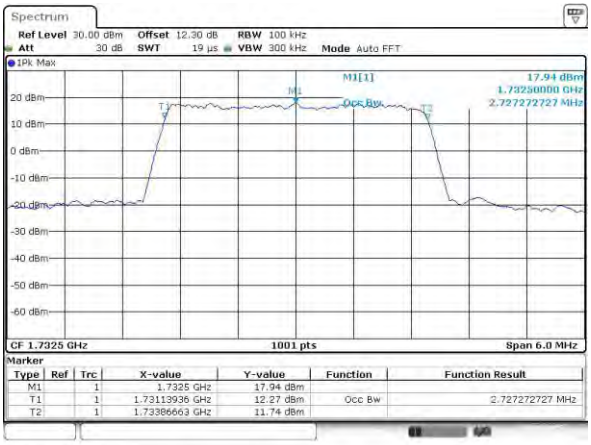
Lowest Channel / 3MHz / 16QAM



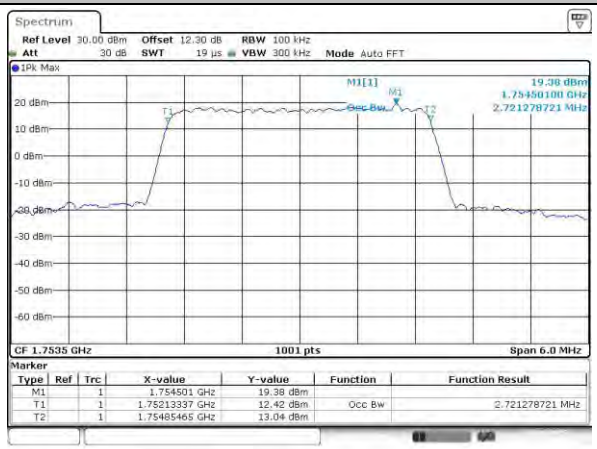
Middle Channel / 3MHz / QPSK



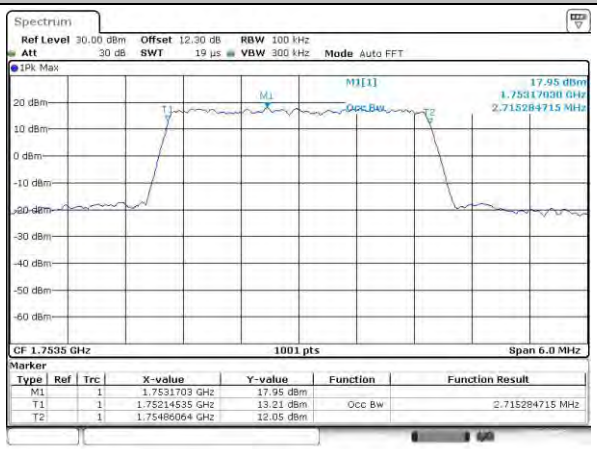
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

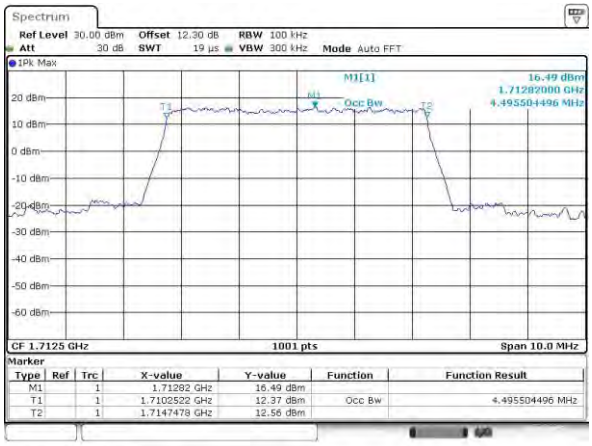


Highest Channel / 3MHz / 16QAM

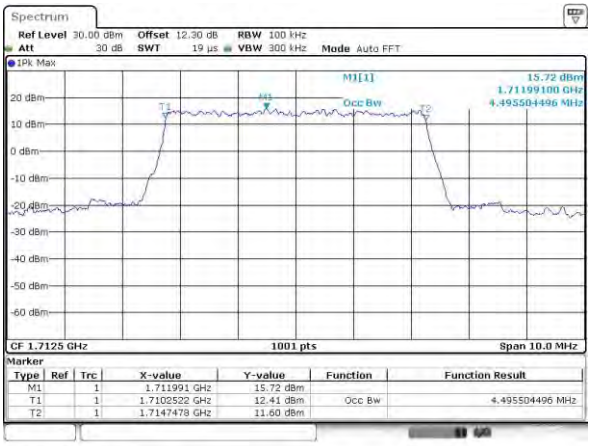


LTE Band 4

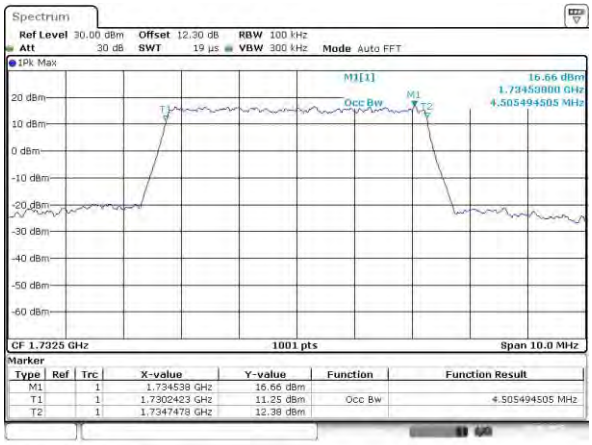
Lowest Channel / 5MHz / QPSK



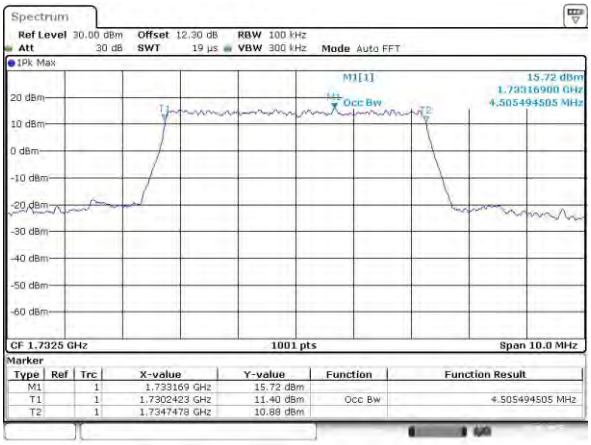
Lowest Channel / 5MHz / 16QAM



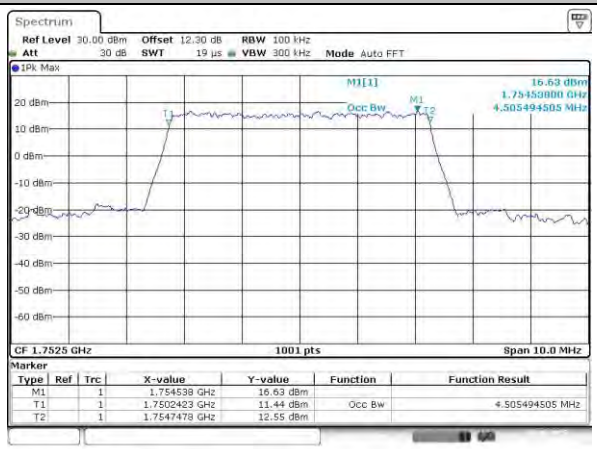
Middle Channel / 5MHz / QPSK



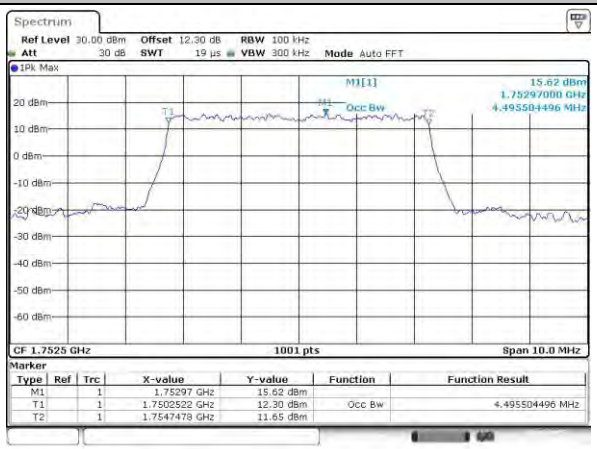
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

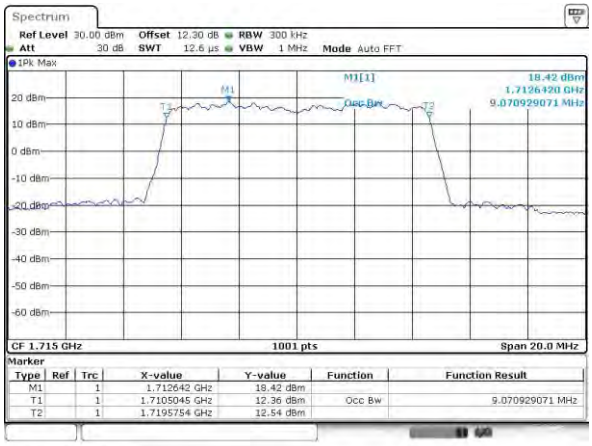


Highest Channel / 5MHz / 16QAM

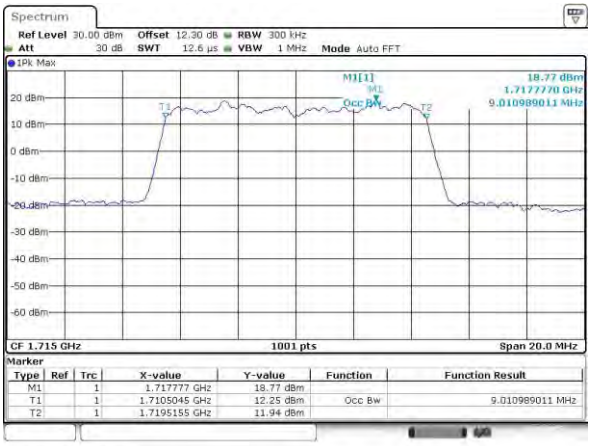


LTE Band 4

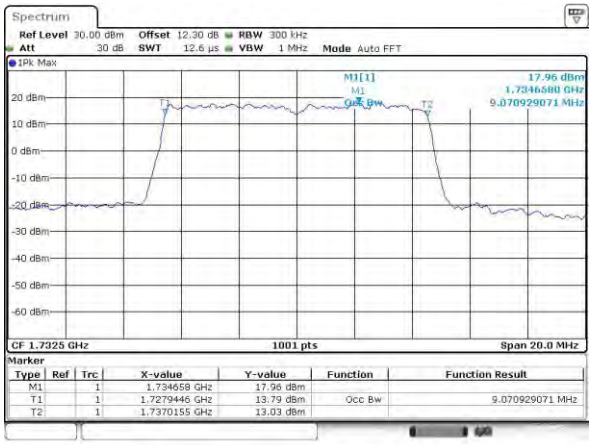
Lowest Channel / 10MHz / QPSK



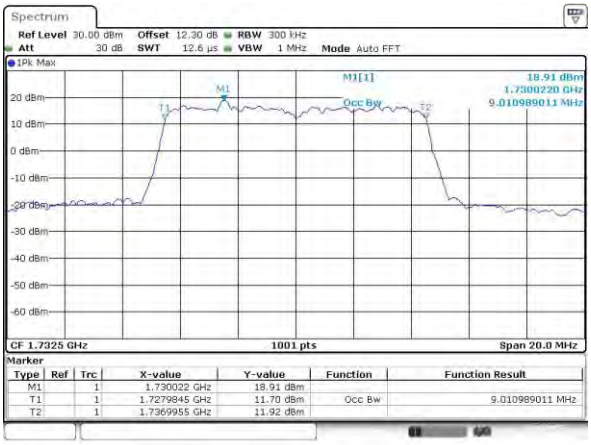
Lowest Channel / 10MHz / 16QAM



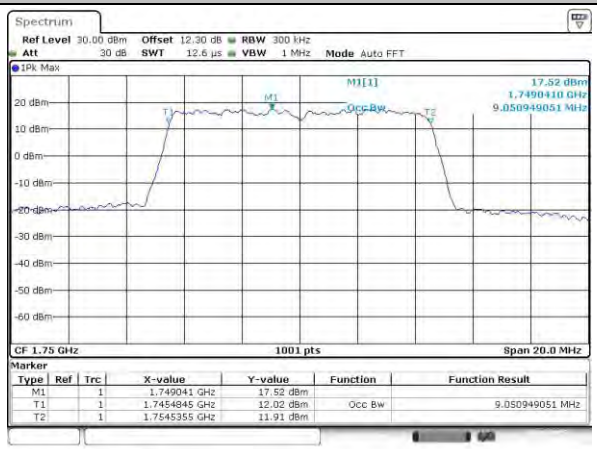
Middle Channel / 10MHz / QPSK



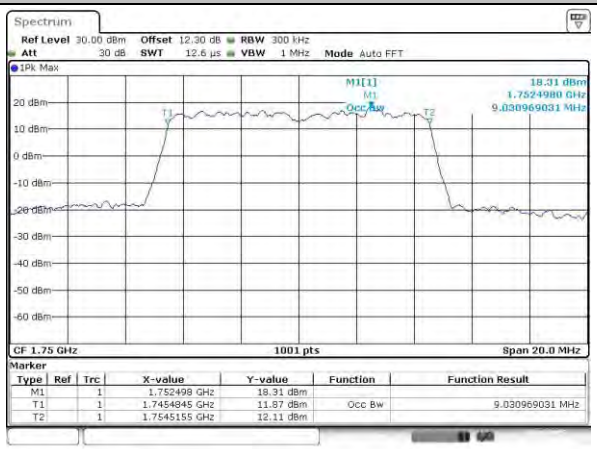
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

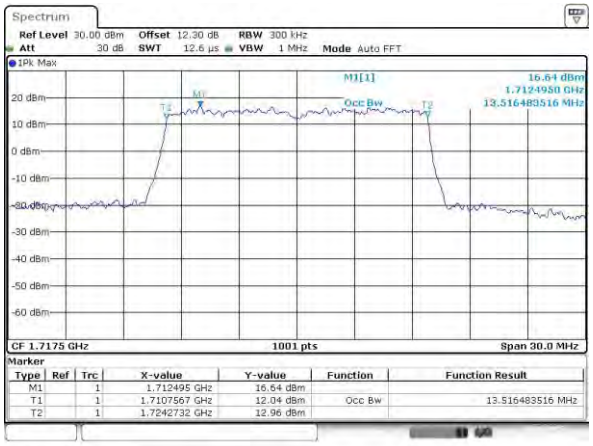


Highest Channel / 10MHz / 16QAM

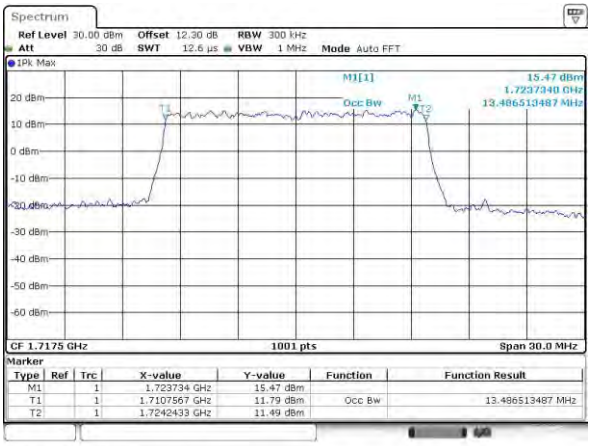


LTE Band 4

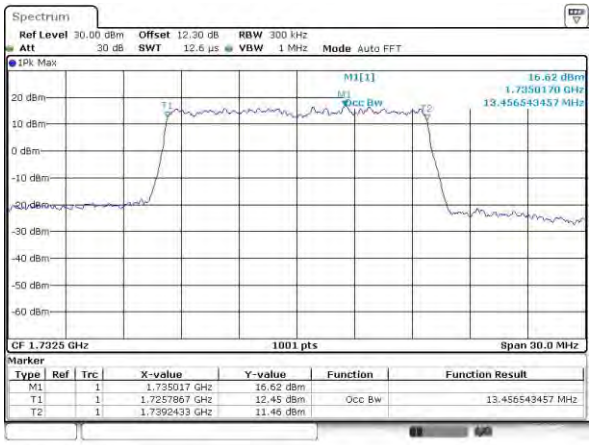
Lowest Channel / 15MHz / QPSK



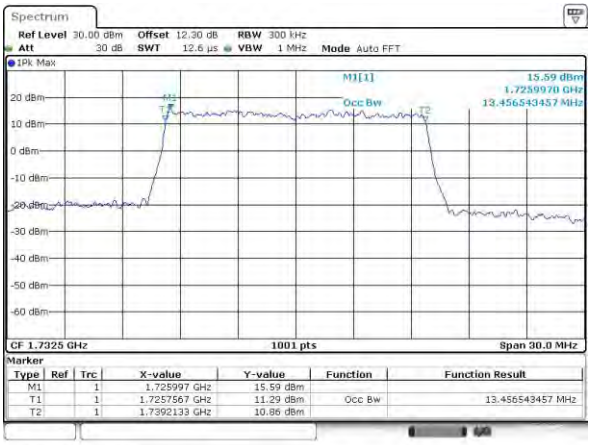
Lowest Channel / 15MHz / 16QAM



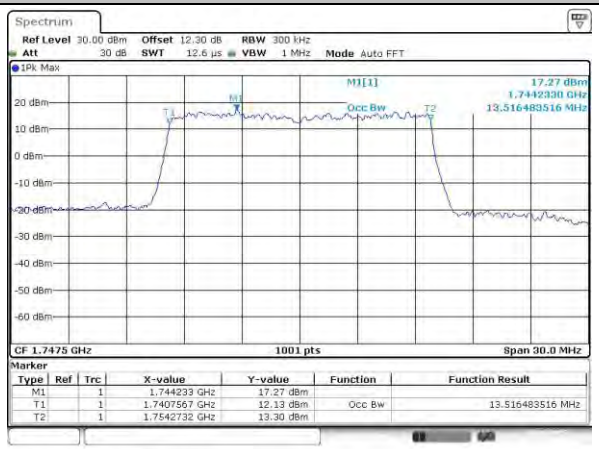
Middle Channel / 15MHz / QPSK



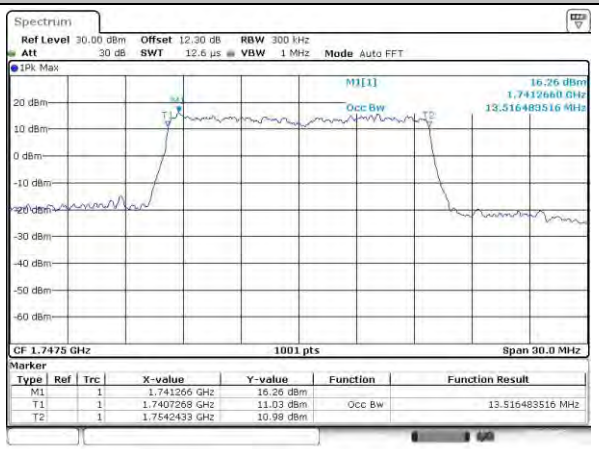
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

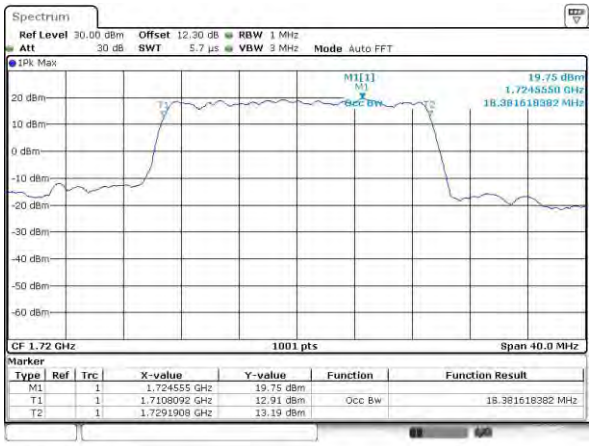


Highest Channel / 15MHz / 16QAM

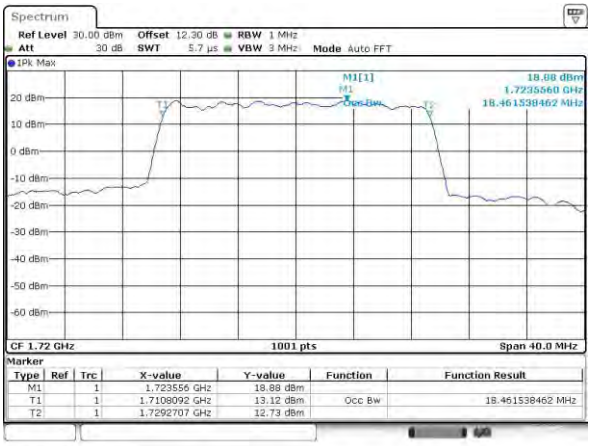


LTE Band 4

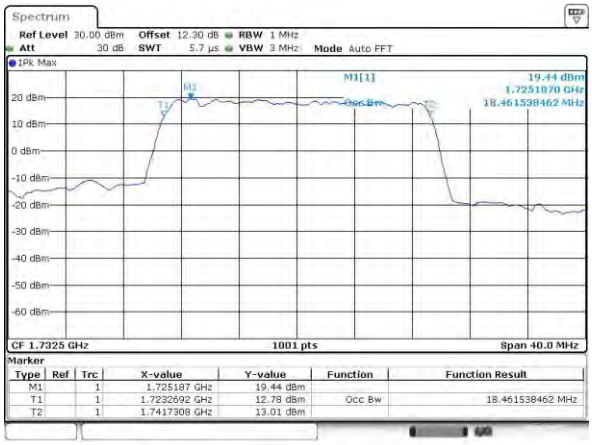
Lowest Channel / 20MHz / QPSK



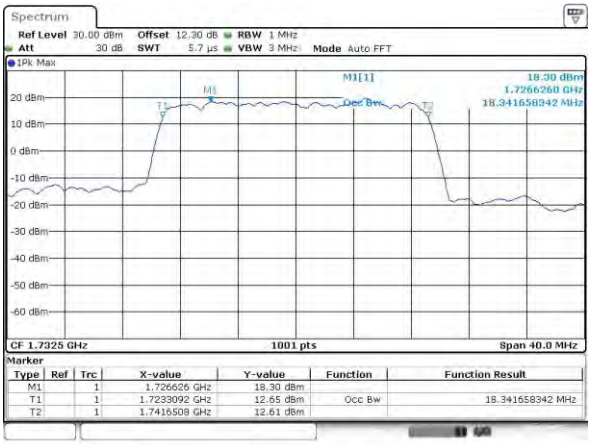
Lowest Channel / 20MHz / 16QAM



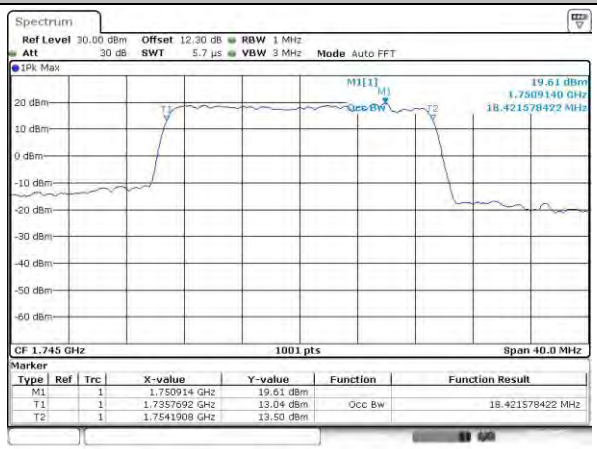
Middle Channel / 20MHz / QPSK



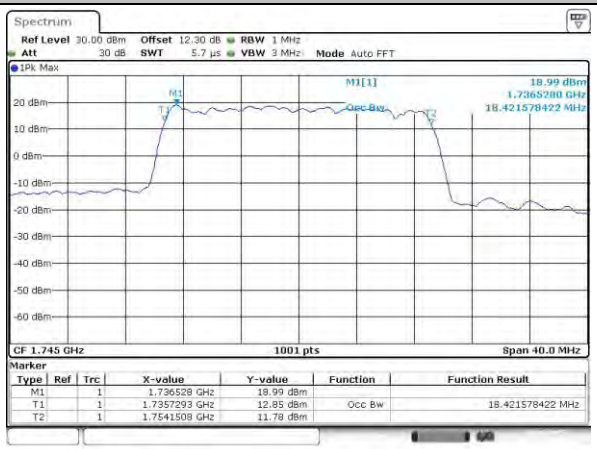
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



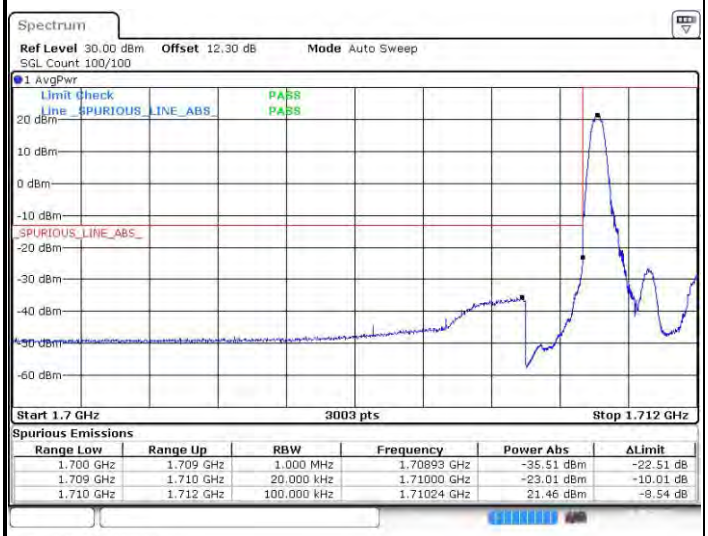
Highest Channel / 20MHz / 16QAM



Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

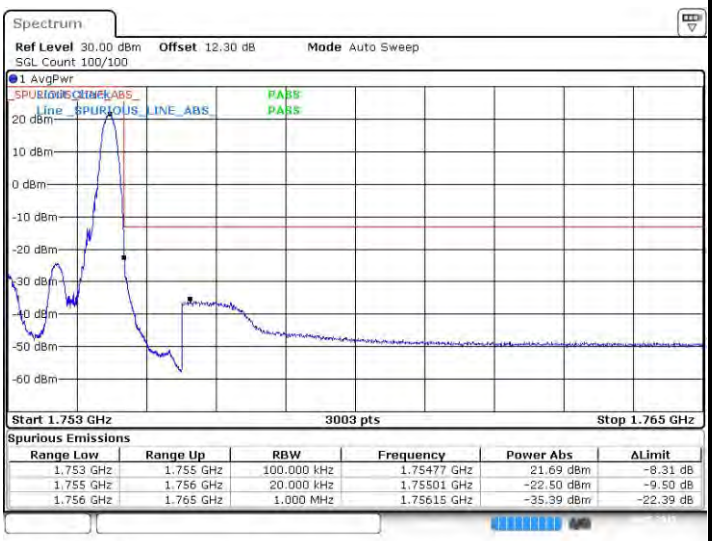


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70893 GHz	-35.51 dBm	-22.51 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.71000 GHz	-23.01 dBm	-10.01 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71024 GHz	21.46 dBm	-8.54 dB

Date: 16.MAY.2015 11:50:19

Highest Band Edge / 1RB

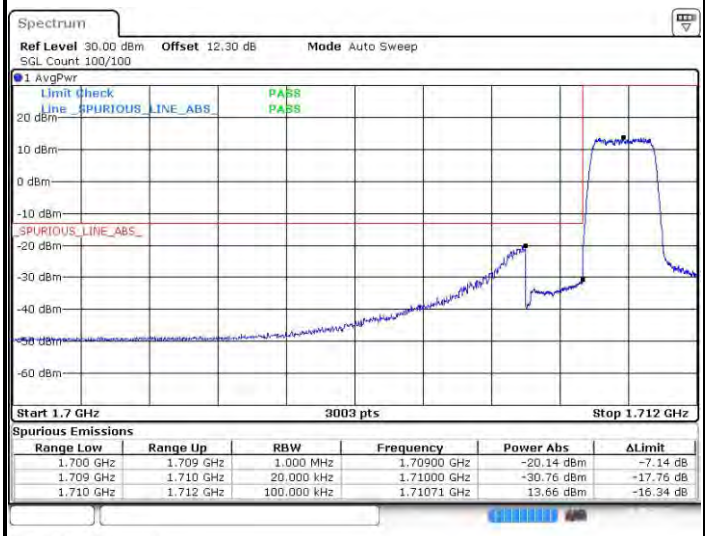


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75477 GHz	21.69 dBm	-8.31 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75501 GHz	-22.50 dBm	-9.50 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75615 GHz	-35.39 dBm	-22.39 dB

Date: 16.MAY.2015 12:01:14

Lowest Band Edge / Full RB

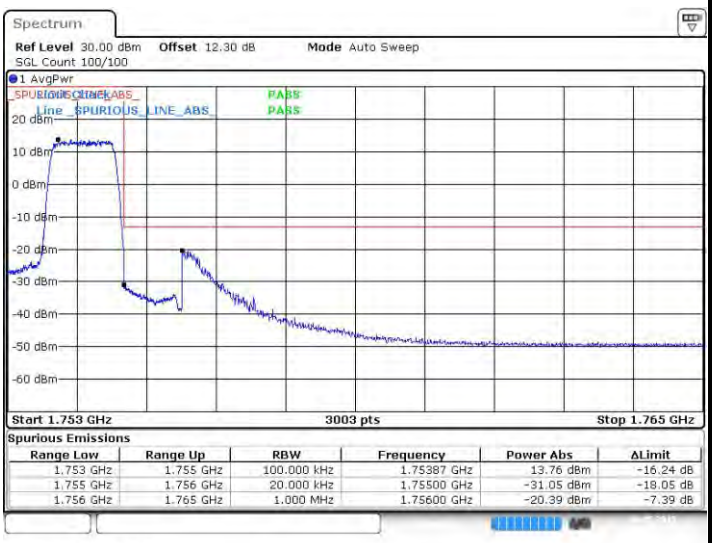


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70900 GHz	-20.14 dBm	-7.14 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.71000 GHz	-30.76 dBm	-17.76 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71071 GHz	13.66 dBm	-16.34 dB

Date: 16.MAY.2015 11:52:39

Highest Band Edge / Full RB



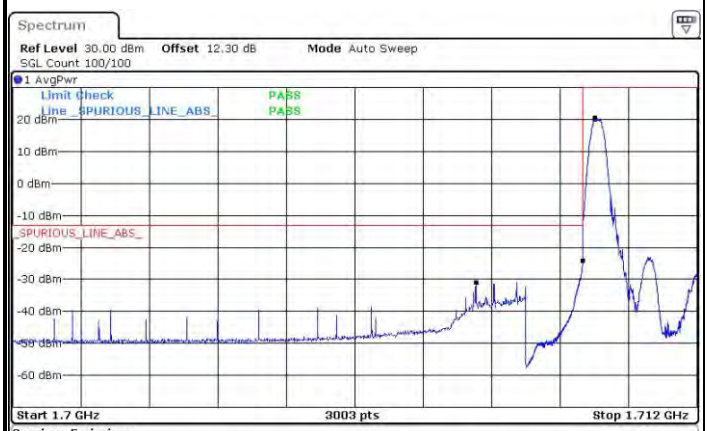
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75387 GHz	13.76 dBm	-16.24 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75500 GHz	-31.05 dBm	-18.05 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75600 GHz	-20.39 dBm	-7.39 dB

Date: 16.MAY.2015 12:03:33

LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

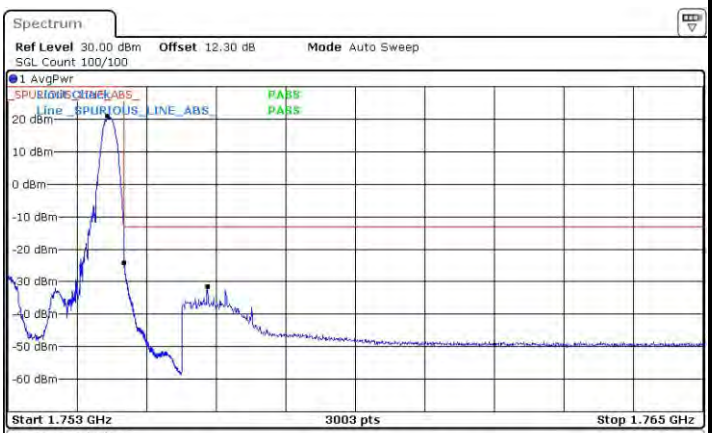


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70812 GHz	-31.06 dBm	-18.06 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.71000 GHz	-24.14 dBm	-11.14 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71021 GHz	20.62 dBm	-9.38 dB

Date: 16.MAY.2015 11:51:29

Highest Band Edge / 1 RB

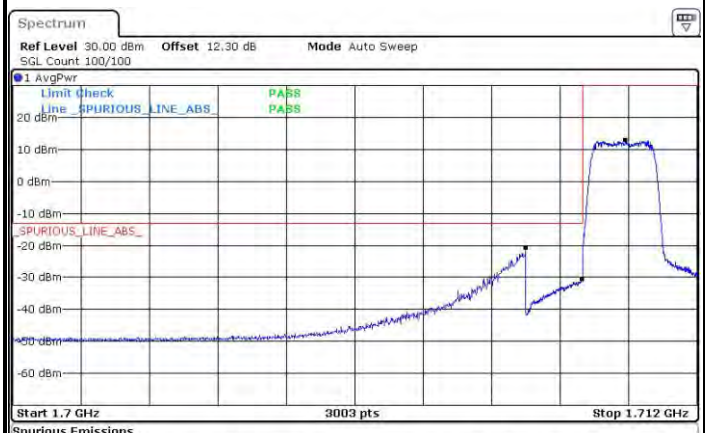


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75472 GHz	20.96 dBm	-9.04 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75501 GHz	-24.09 dBm	-11.09 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75645 GHz	-31.39 dBm	-18.39 dB

Date: 16.MAY.2015 12:02:23

Lowest Band Edge / Full RB

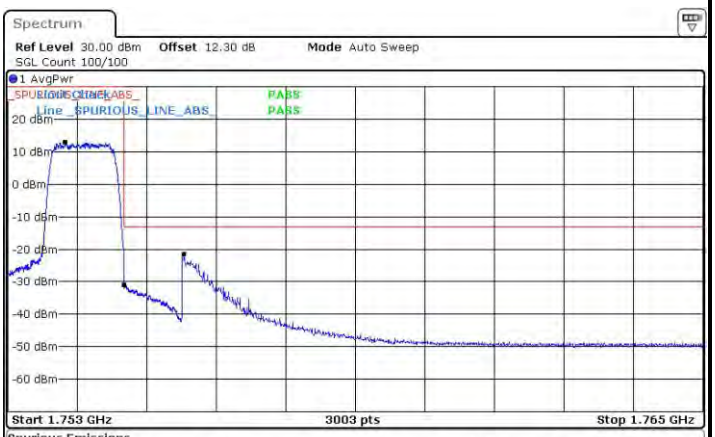


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70900 GHz	-20.75 dBm	-7.75 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.70998 GHz	-30.32 dBm	-17.32 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71074 GHz	12.84 dBm	-17.16 dB

Date: 16.MAY.2015 11:53:48

Highest Band Edge / Full RB



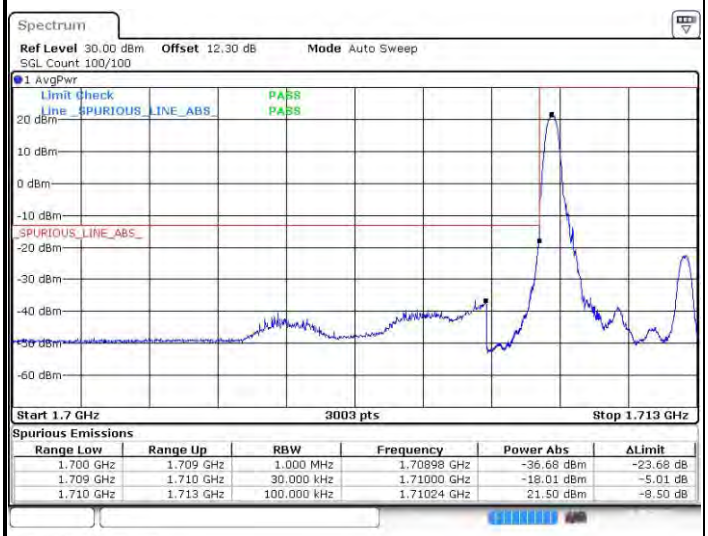
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75400 GHz	13.02 dBm	-16.98 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75500 GHz	-31.11 dBm	-18.11 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75604 GHz	-21.43 dBm	-8.43 dB

Date: 16.MAY.2015 12:04:43

LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / 1RB

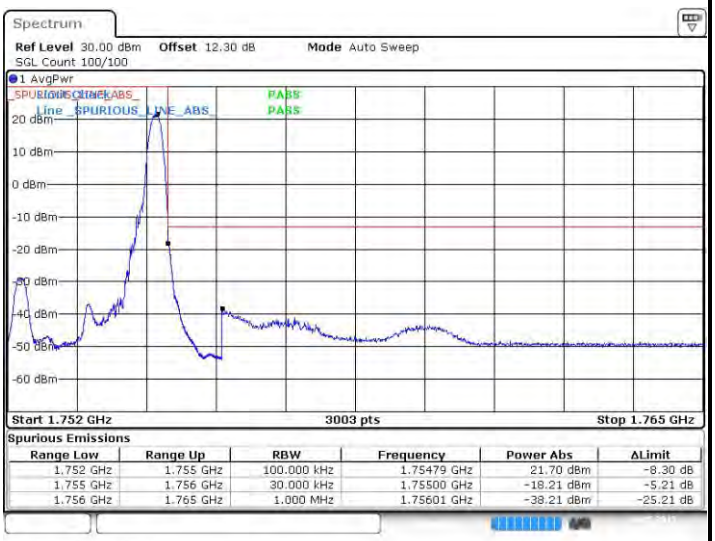


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70898 GHz	-36.68 dBm	-23.68 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-18.01 dBm	-5.01 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71024 GHz	21.50 dBm	-8.50 dB

Date: 16.MAY.2015 10:15:23

Highest Band Edge / 1 RB

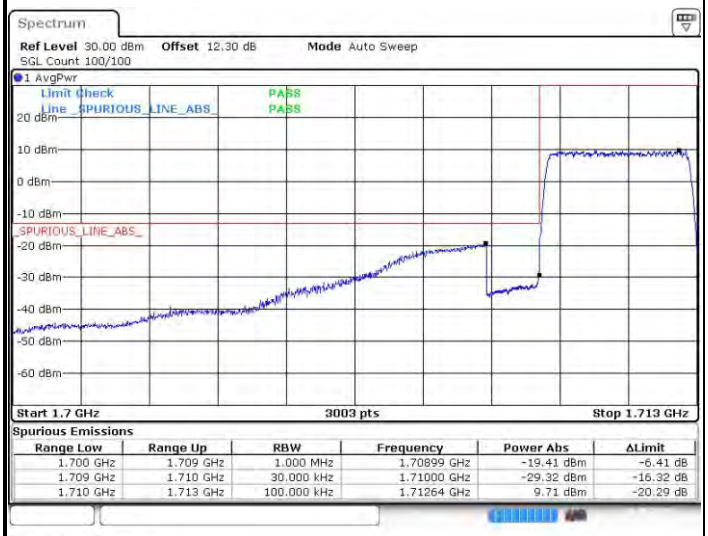


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75479 GHz	21.70 dBm	-8.30 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-18.21 dBm	-5.21 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75601 GHz	-38.21 dBm	-25.21 dB

Date: 16.MAY.2015 10:26:18

Lowest Band Edge / Full RB

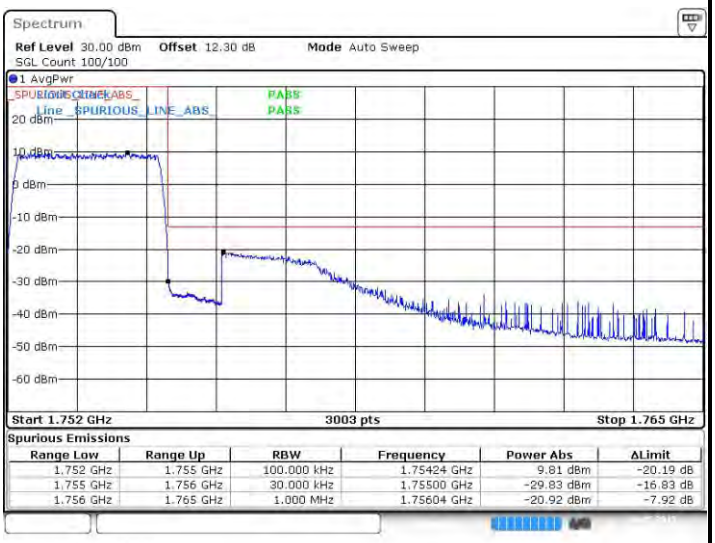


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70899 GHz	-19.41 dBm	-6.41 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-29.32 dBm	-16.32 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71264 GHz	9.71 dBm	-20.29 dB

Date: 16.MAY.2015 10:17:43

Highest Band Edge / Full RB



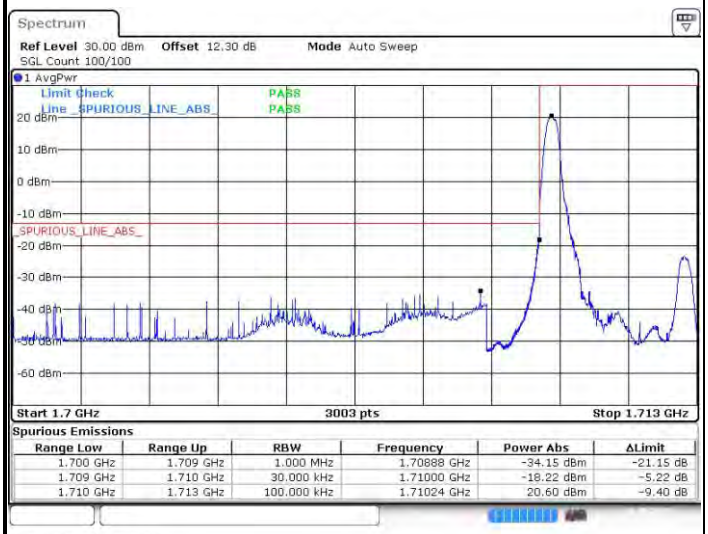
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75424 GHz	9.81 dBm	-20.19 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-29.83 dBm	-16.83 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75604 GHz	-20.92 dBm	-7.92 dB

Date: 16.MAY.2015 10:28:38

LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

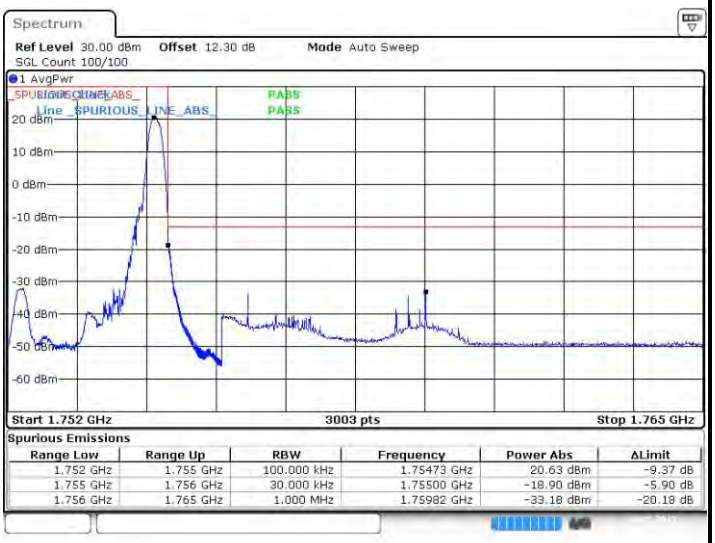


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70888 GHz	-34.15 dBm	-21.15 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-18.22 dBm	-5.22 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71024 GHz	20.60 dBm	-9.40 dB

Date: 16.MAY.2015 10:16:33

Highest Band Edge /1 RB

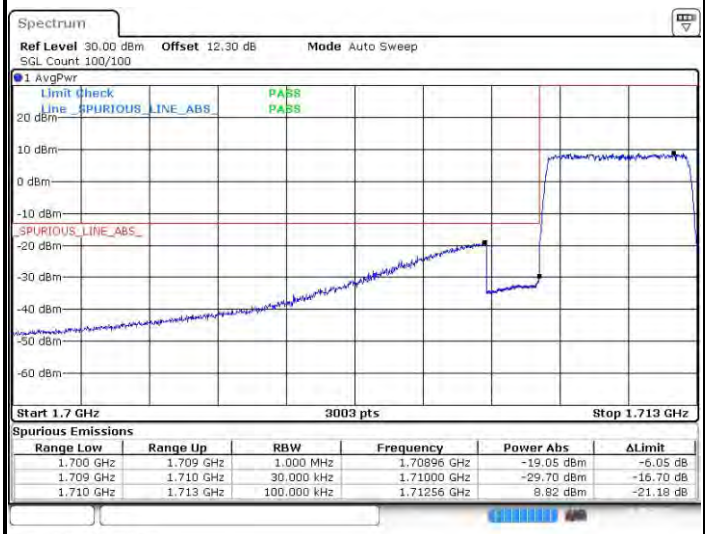


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75473 GHz	20.63 dBm	-9.37 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-18.90 dBm	-5.90 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75982 GHz	-33.18 dBm	-20.18 dB

Date: 16.MAY.2015 10:27:28

Lowest Band Edge / Full RB

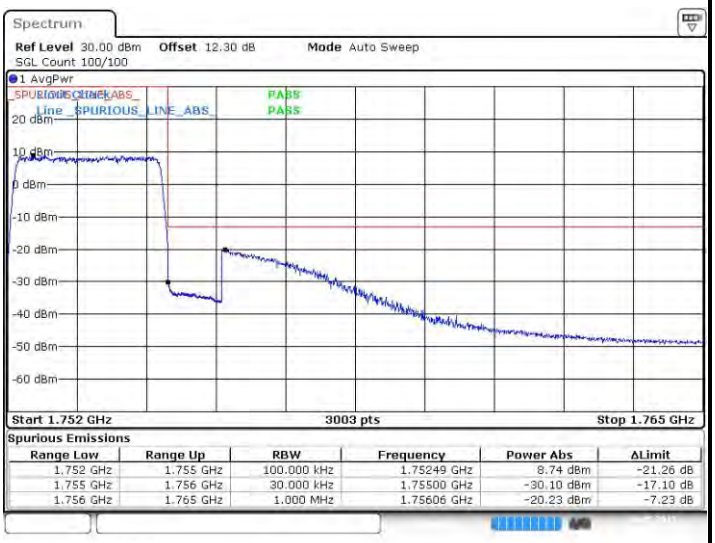


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70896 GHz	-19.05 dBm	-6.05 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-29.70 dBm	-16.70 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71256 GHz	8.82 dBm	-21.18 dB

Date: 16.MAY.2015 10:18:52

Highest Band Edge / Full RB



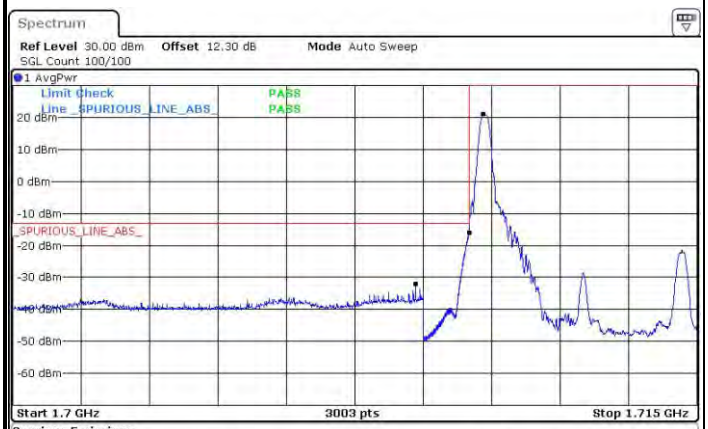
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75249 GHz	8.74 dBm	-21.26 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-30.10 dBm	-17.10 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75606 GHz	-20.23 dBm	-7.23 dB

Date: 16.MAY.2015 10:29:48

LTE Band 4 / 5MHz / QPSK

Lowest Band Edge / 1 RB

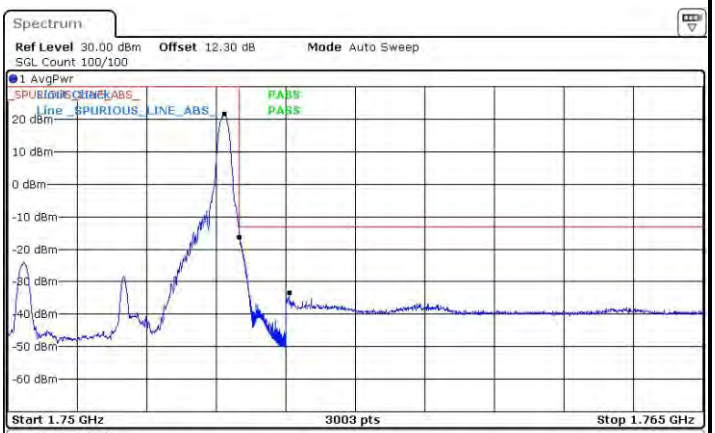


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70882 GHz	-32.10 dBm	-19.10 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	-16.10 dBm	-3.10 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71032 GHz	21.14 dBm	-8.86 dB

Date: 16.MAY.2015 10:34:10

Highest Band Edge / 1 RB

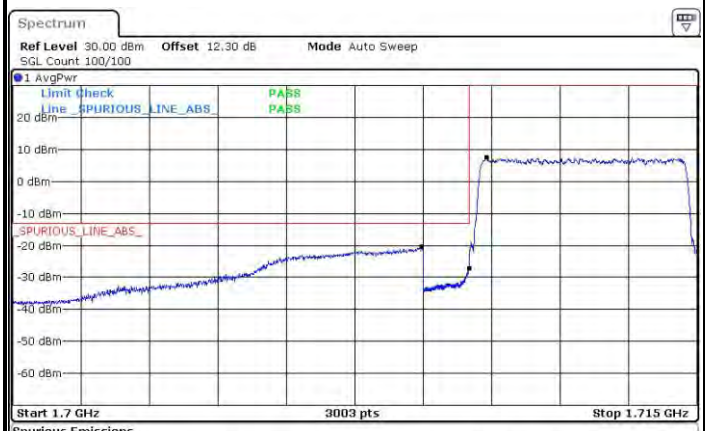


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75467 GHz	21.53 dBm	-8.47 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75500 GHz	-16.34 dBm	-3.34 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75608 GHz	-33.48 dBm	-20.48 dB

Date: 16.MAY.2015 10:45:04

Lowest Band Edge / Full RB

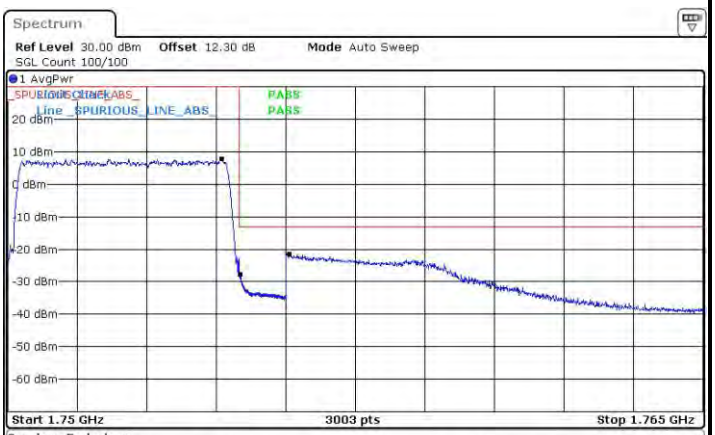


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70897 GHz	-20.54 dBm	-7.54 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	-27.29 dBm	-14.29 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71038 GHz	7.52 dBm	-22.48 dB

Date: 16.MAY.2015 10:36:29

Highest Band Edge / Full RB



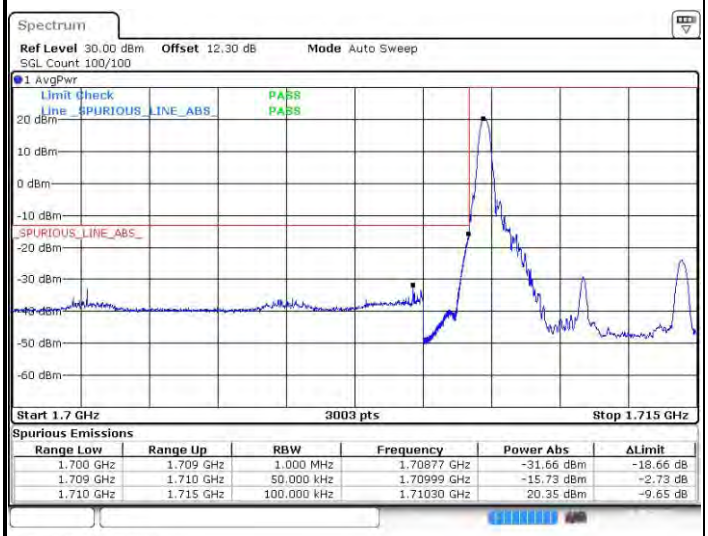
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75461 GHz	7.73 dBm	-22.27 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75501 GHz	-27.85 dBm	-14.85 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75609 GHz	-21.48 dBm	-8.48 dB

Date: 16.MAY.2015 10:47:24

LTE Band 4 / 5MHz / 16QAM

Lowest Band Edge / 1RB

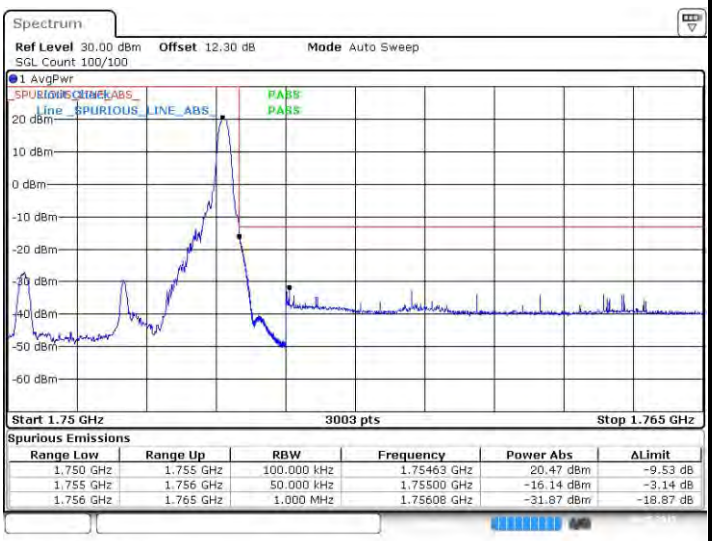


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70877 GHz	-31.66 dBm	-18.66 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.70999 GHz	-15.73 dBm	-2.73 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71030 GHz	20.35 dBm	-9.65 dB

Date: 16.MAY.2015 10:35:19

Highest Band Edge / 1 RB

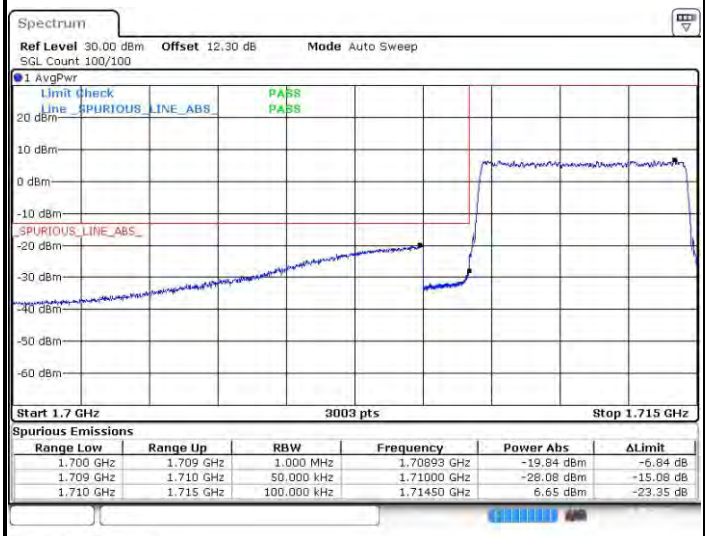


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75463 GHz	20.47 dBm	-9.53 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75500 GHz	-16.14 dBm	-3.14 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75608 GHz	-31.87 dBm	-18.87 dB

Date: 16.MAY.2015 10:46:14

Lowest Band Edge / Full RB

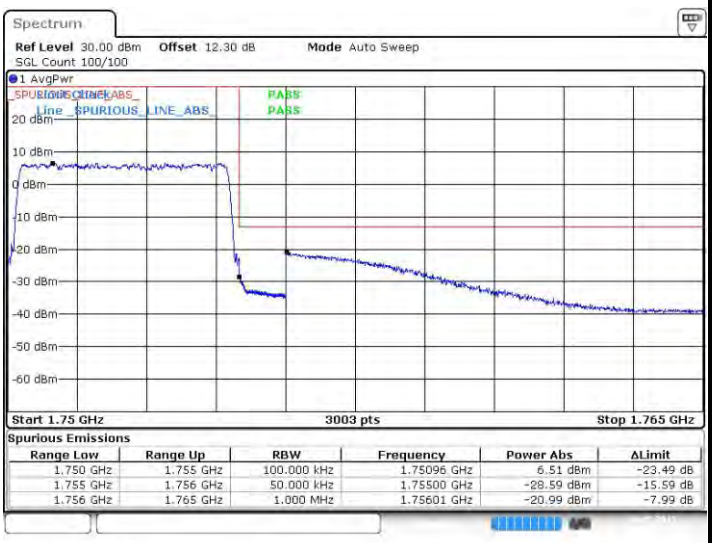


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70893 GHz	-19.84 dBm	-6.84 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	-28.08 dBm	-15.08 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71450 GHz	6.65 dBm	-23.35 dB

Date: 16.MAY.2015 10:37:39

Highest Band Edge / Full RB



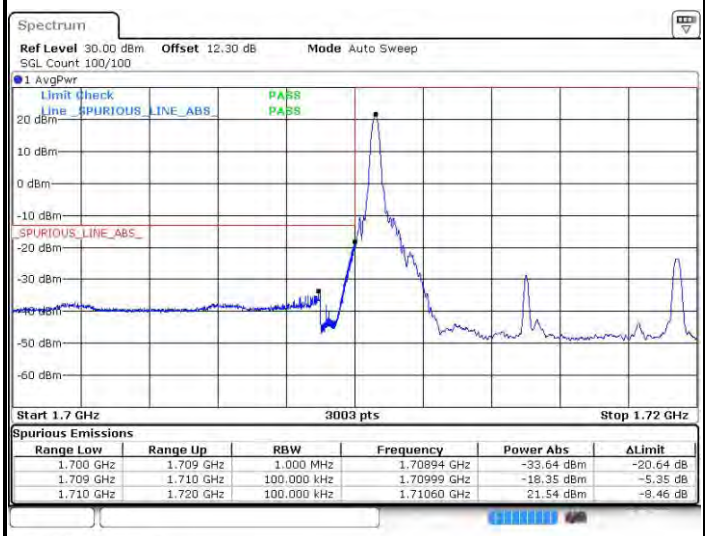
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75096 GHz	6.51 dBm	-23.49 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75500 GHz	-28.59 dBm	-15.59 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75601 GHz	-20.99 dBm	-7.99 dB

Date: 16.MAY.2015 10:48:34

LTE Band 4 / 10MHz / QPSK

Lowest Band Edge / 1 RB

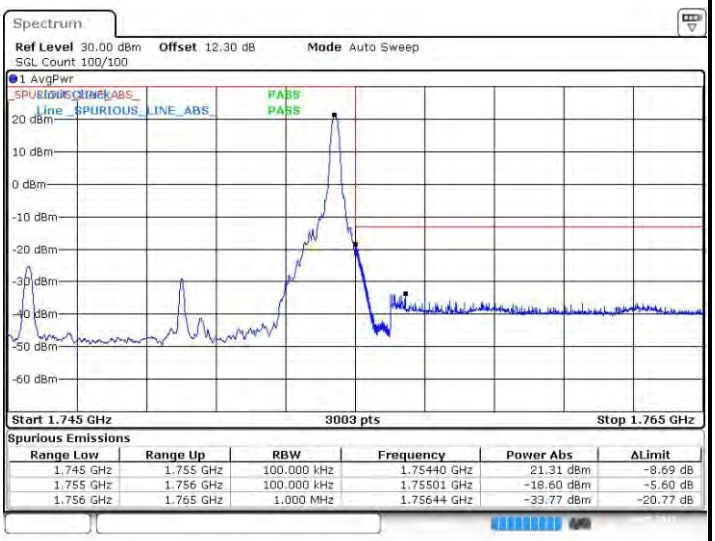


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70894 GHz	-33.64 dBm	-20.64 dB
1.709 GHz	1.710 GHz	100.000 kHz	1.70999 GHz	-18.35 dBm	-5.35 dB
1.710 GHz	1.720 GHz	100.000 kHz	1.71060 GHz	21.54 dBm	-8.46 dB

Date: 16.MAY.2015 10:52:56

Highest Band Edge / 1 RB

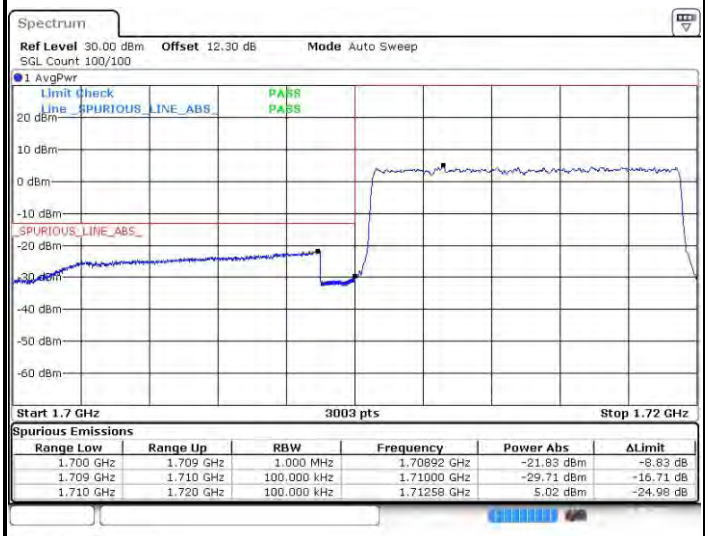


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.75440 GHz	21.31 dBm	-8.69 dB
1.755 GHz	1.756 GHz	100.000 kHz	1.75501 GHz	-18.60 dBm	-5.60 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75644 GHz	-33.77 dBm	-20.77 dB

Date: 16.MAY.2015 11:03:51

Lowest Band Edge / Full RB

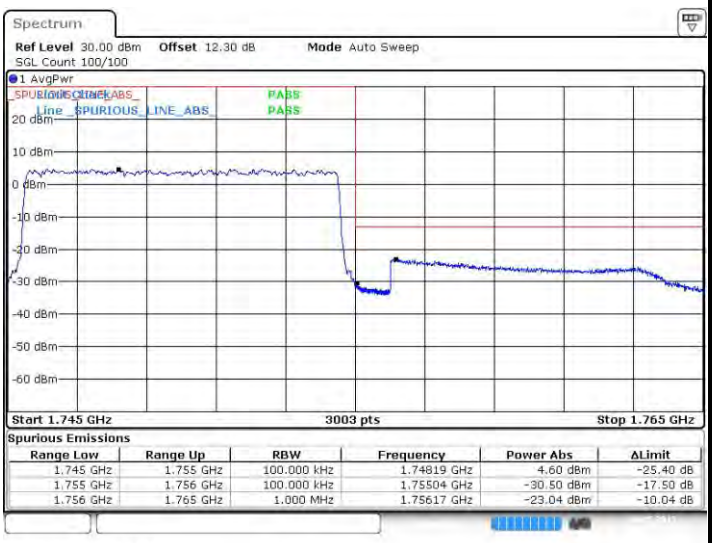


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70892 GHz	-21.83 dBm	-8.83 dB
1.709 GHz	1.710 GHz	100.000 kHz	1.71000 GHz	-29.71 dBm	-16.71 dB
1.710 GHz	1.720 GHz	100.000 kHz	1.71258 GHz	5.02 dBm	-24.98 dB

Date: 16.MAY.2015 10:55:16

Highest Band Edge / Full RB



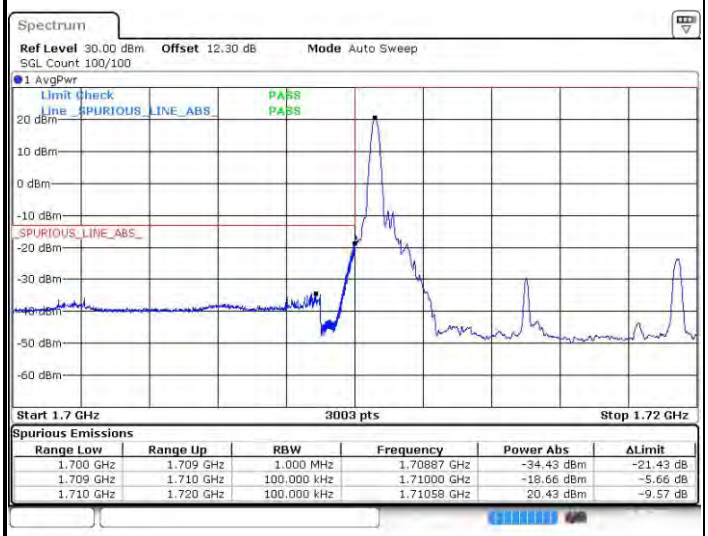
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.74819 GHz	4.60 dBm	-25.40 dB
1.755 GHz	1.756 GHz	100.000 kHz	1.75504 GHz	-30.50 dBm	-17.50 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75617 GHz	-23.04 dBm	-10.04 dB

Date: 16.MAY.2015 13:22:40

LTE Band 4 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

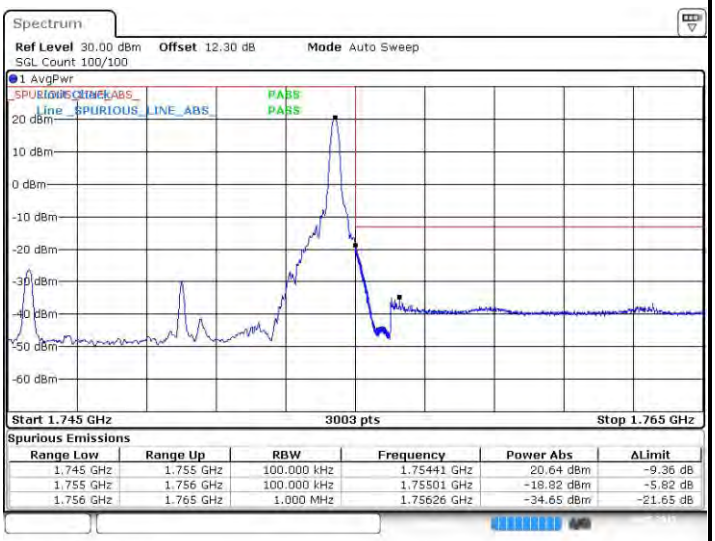


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70887 GHz	-34.43 dBm	-21.43 dB
1.709 GHz	1.710 GHz	100.000 kHz	1.71000 GHz	-18.66 dBm	-5.66 dB
1.710 GHz	1.720 GHz	100.000 kHz	1.71058 GHz	20.43 dBm	-9.57 dB

Date: 16.MAY.2015 10:54:06

Highest Band Edge / 1 RB

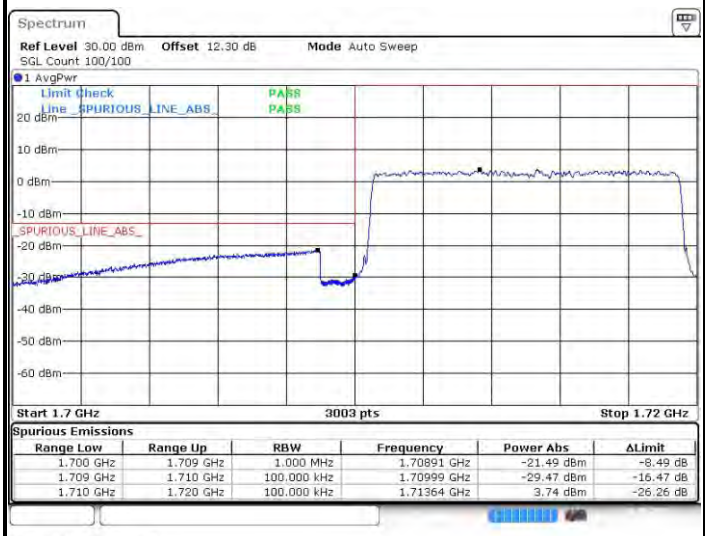


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.75441 GHz	20.64 dBm	-9.36 dB
1.755 GHz	1.756 GHz	100.000 kHz	1.75501 GHz	-18.82 dBm	-5.82 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75626 GHz	-34.65 dBm	-21.65 dB

Date: 16.MAY.2015 11:05:01

Lowest Band Edge / Full RB

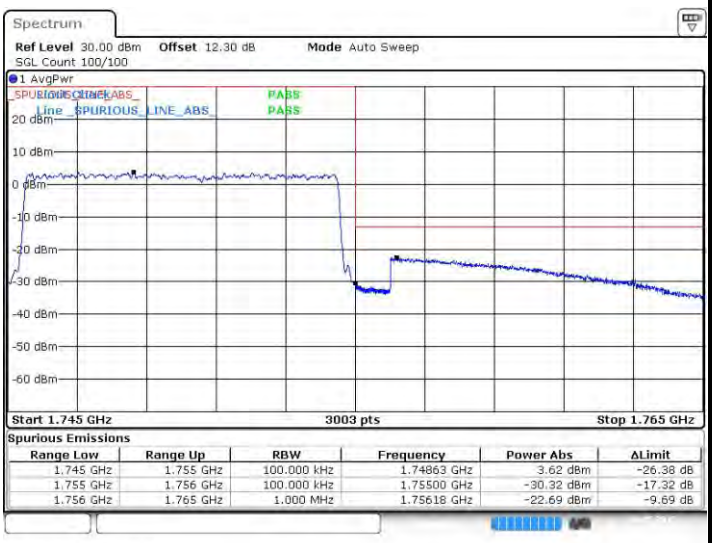


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70891 GHz	-21.49 dBm	-8.49 dB
1.709 GHz	1.710 GHz	100.000 kHz	1.70999 GHz	-29.47 dBm	-16.47 dB
1.710 GHz	1.720 GHz	100.000 kHz	1.71364 GHz	3.74 dBm	-26.26 dB

Date: 16.MAY.2015 10:56:25

Highest Band Edge / Full RB



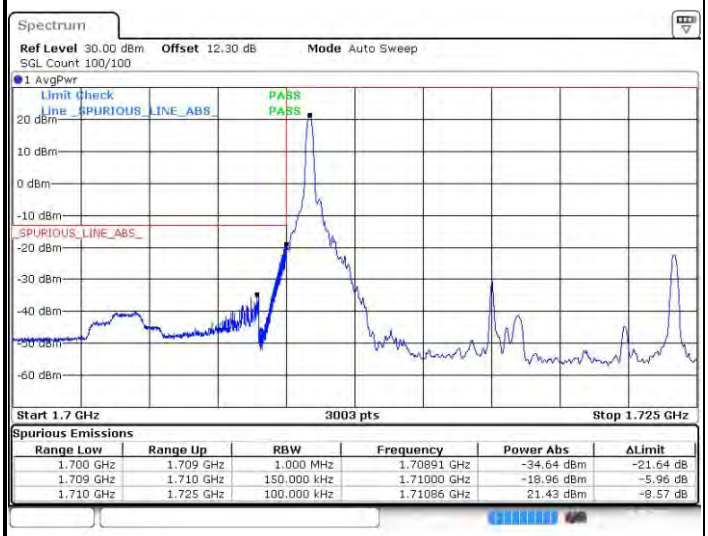
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.74863 GHz	3.62 dBm	-26.38 dB
1.755 GHz	1.756 GHz	100.000 kHz	1.75500 GHz	-30.32 dBm	-17.32 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75618 GHz	-22.69 dBm	-9.69 dB

Date: 16.MAY.2015 11:07:20

LTE Band 4 / 15MHz / QPSK

Lowest Band Edge / 1 RB

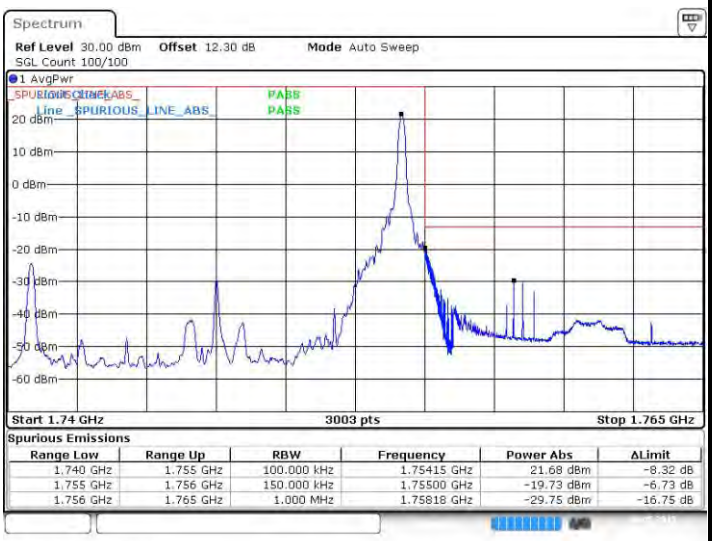


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70891 GHz	-34.64 dBm	-21.64 dB
1.709 GHz	1.710 GHz	150.000 kHz	1.71000 GHz	-18.96 dBm	-5.96 dB
1.710 GHz	1.725 GHz	100.000 kHz	1.71086 GHz	21.43 dBm	-8.57 dB

Date: 16.MAY.2015 11:12:07

Highest Band Edge / 1 RB

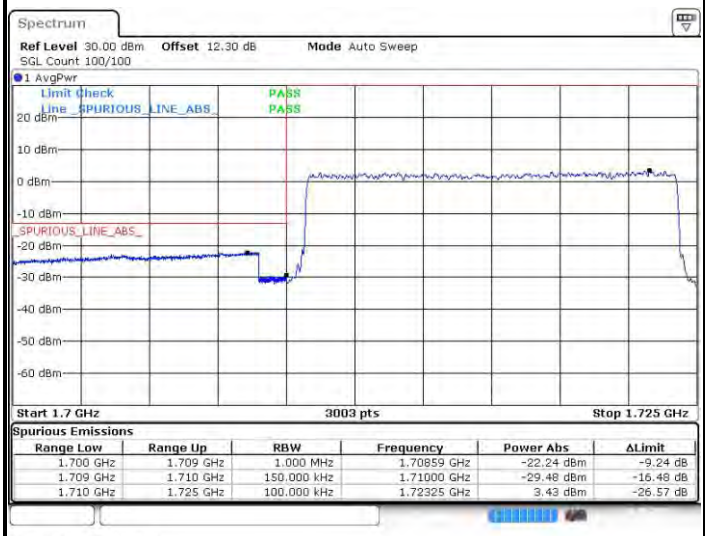


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.755 GHz	100.000 kHz	1.75415 GHz	21.68 dBm	-8.32 dB
1.755 GHz	1.756 GHz	150.000 kHz	1.75500 GHz	-19.73 dBm	-6.73 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75818 GHz	-29.75 dBm	-16.75 dB

Date: 16.MAY.2015 11:23:02

Lowest Band Edge / Full RB

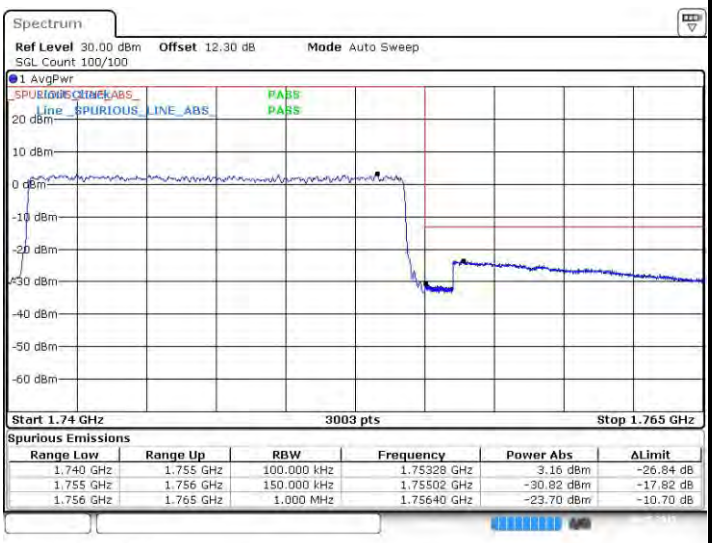


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70859 GHz	-22.24 dBm	-9.24 dB
1.709 GHz	1.710 GHz	150.000 kHz	1.71000 GHz	-29.48 dBm	-16.48 dB
1.710 GHz	1.725 GHz	100.000 kHz	1.72325 GHz	3.43 dBm	-26.57 dB

Date: 16.MAY.2015 11:14:27

Highest Band Edge / Full RB



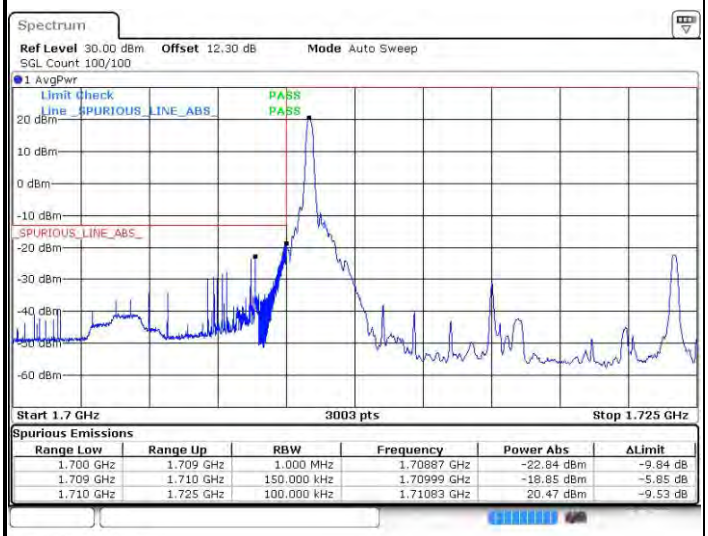
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.755 GHz	100.000 kHz	1.75328 GHz	3.16 dBm	-26.84 dB
1.755 GHz	1.756 GHz	150.000 kHz	1.75502 GHz	-30.82 dBm	-17.82 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75640 GHz	-23.70 dBm	-10.70 dB

Date: 16.MAY.2015 11:26:01

LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

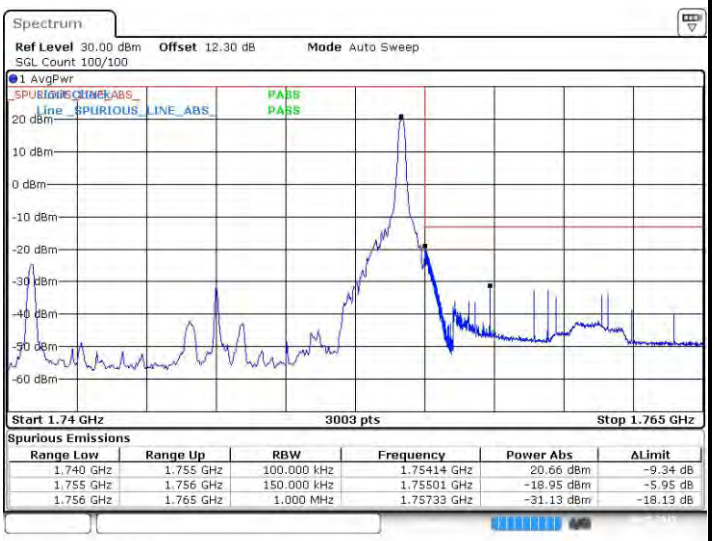


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70887 GHz	-22.84 dBm	-9.84 dB
1.709 GHz	1.710 GHz	150.000 kHz	1.70999 GHz	-18.85 dBm	-5.85 dB
1.710 GHz	1.725 GHz	100.000 kHz	1.71083 GHz	20.47 dBm	-9.53 dB

Date: 16.MAY.2015 11:13:17

Highest Band Edge / 1 RB

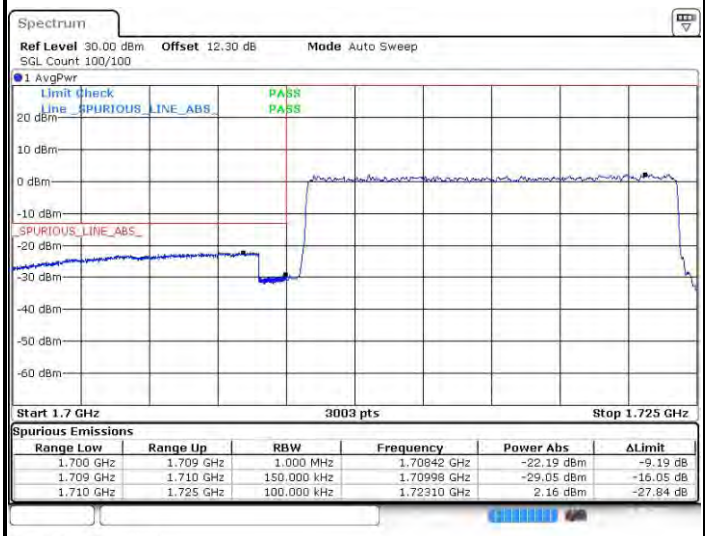


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.755 GHz	100.000 kHz	1.75414 GHz	20.66 dBm	-9.34 dB
1.755 GHz	1.756 GHz	150.000 kHz	1.75501 GHz	-18.95 dBm	-5.95 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75733 GHz	-31.13 dBm	-18.13 dB

Date: 16.MAY.2015 13:33:51

Lowest Band Edge / Full RB

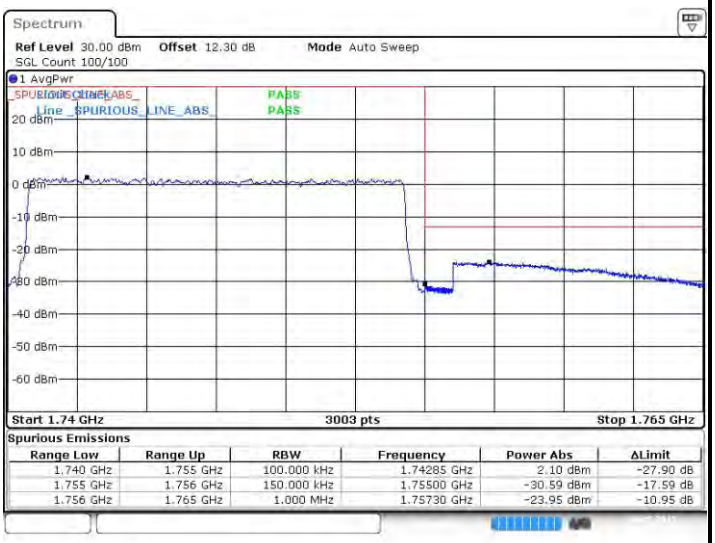


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70842 GHz	-22.19 dBm	-9.19 dB
1.709 GHz	1.710 GHz	150.000 kHz	1.70998 GHz	-29.05 dBm	-16.05 dB
1.710 GHz	1.725 GHz	100.000 kHz	1.72310 GHz	2.16 dBm	-27.84 dB

Date: 16.MAY.2015 11:15:37

Highest Band Edge / Full RB



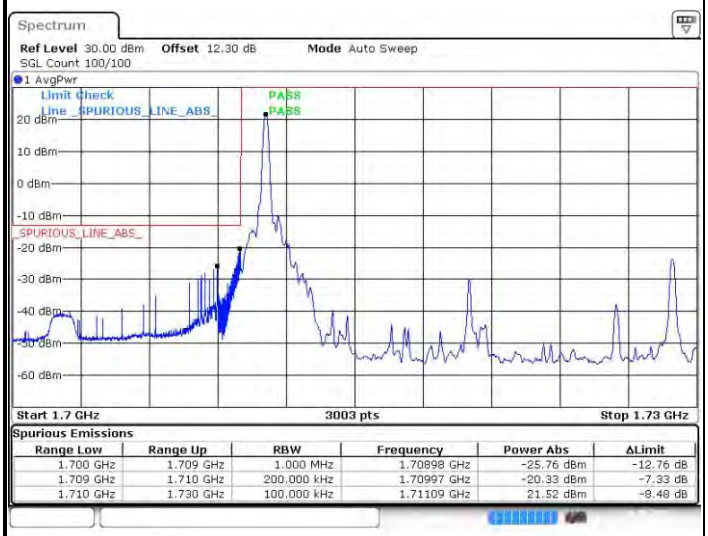
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.755 GHz	100.000 kHz	1.74285 GHz	2.10 dBm	-27.90 dB
1.755 GHz	1.756 GHz	150.000 kHz	1.75500 GHz	-30.59 dBm	-17.59 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75730 GHz	-23.95 dBm	-10.95 dB

Date: 16.MAY.2015 11:27:11

LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB

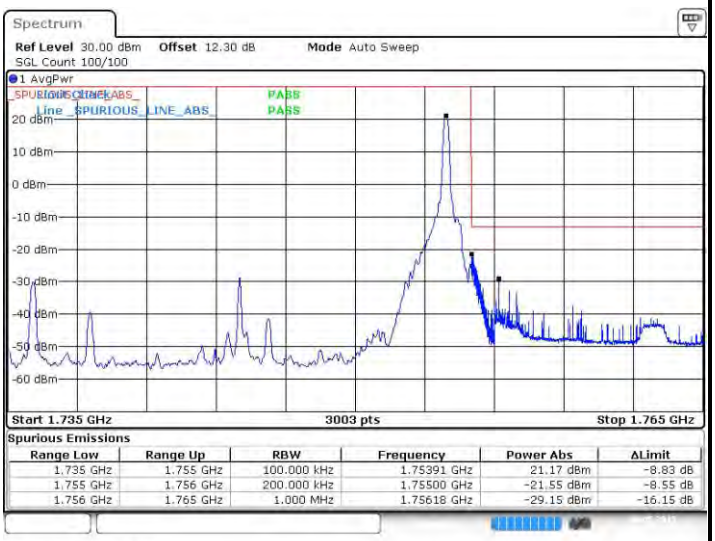


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70898 GHz	-25.76 dBm	-12.76 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70997 GHz	-20.33 dBm	-7.33 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.71109 GHz	21.52 dBm	-8.48 dB

Date: 16.MAY.2015 11:31:33

Highest Band Edge / 1 RB

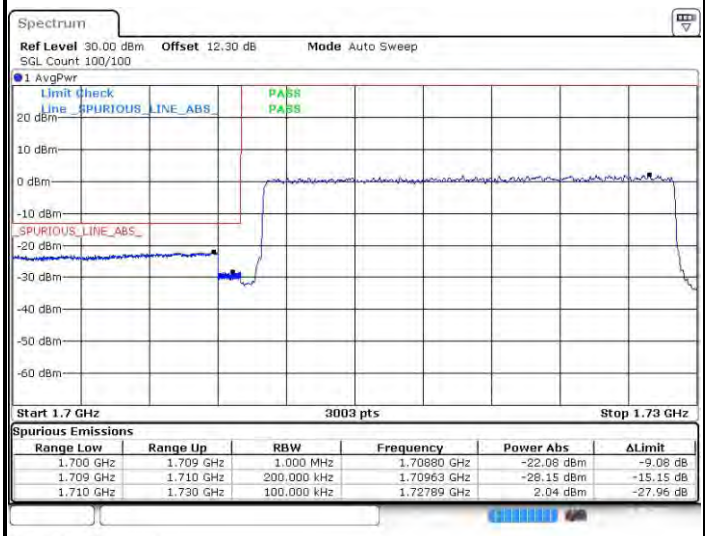


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75391 GHz	21.17 dBm	-8.83 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75500 GHz	-21.55 dBm	-8.55 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75618 GHz	-29.15 dBm	-16.15 dB

Date: 16.MAY.2015 11:42:27

Lowest Band Edge / Full RB

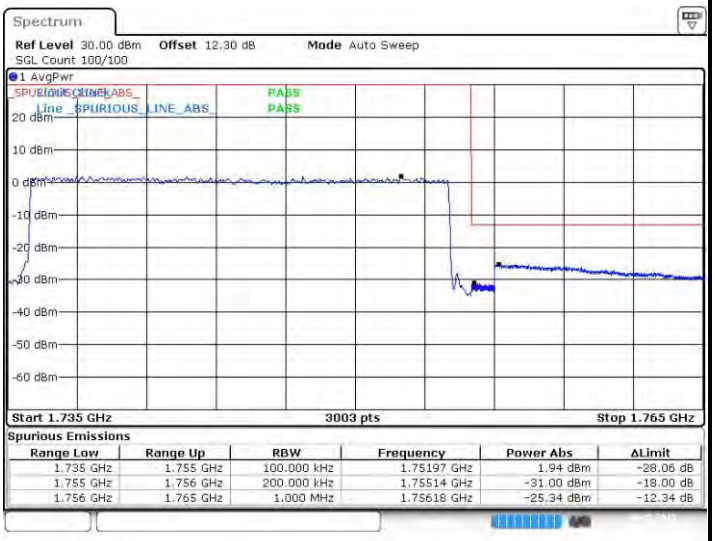


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70880 GHz	-22.08 dBm	-9.08 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70963 GHz	-28.15 dBm	-15.15 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.72789 GHz	2.04 dBm	-27.96 dB

Date: 16.MAY.2015 11:33:53

Highest Band Edge / Full RB



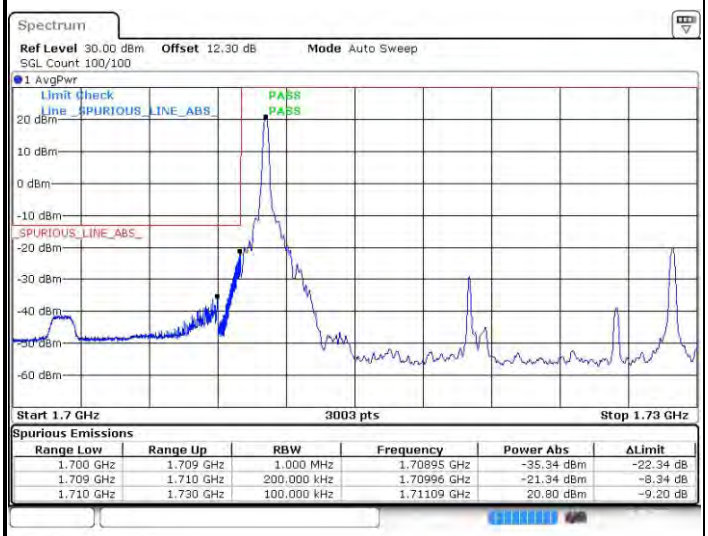
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75197 GHz	1.94 dBm	-28.06 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75514 GHz	-31.00 dBm	-18.00 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75618 GHz	-25.34 dBm	-12.34 dB

Date: 16.MAY.2015 11:44:47

LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

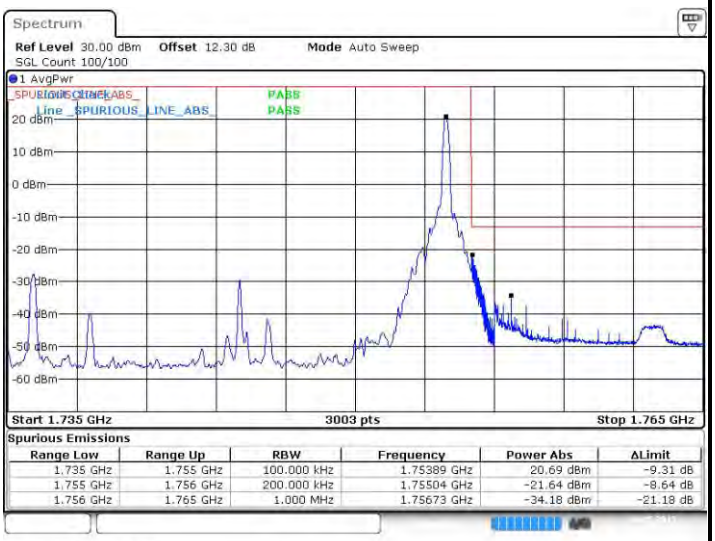


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70895 GHz	-35.34 dBm	-22.34 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70996 GHz	-21.34 dBm	-8.34 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.71109 GHz	20.80 dBm	-9.20 dB

Date: 16.MAY.2015 11:32:43

Highest Band Edge / 1 RB

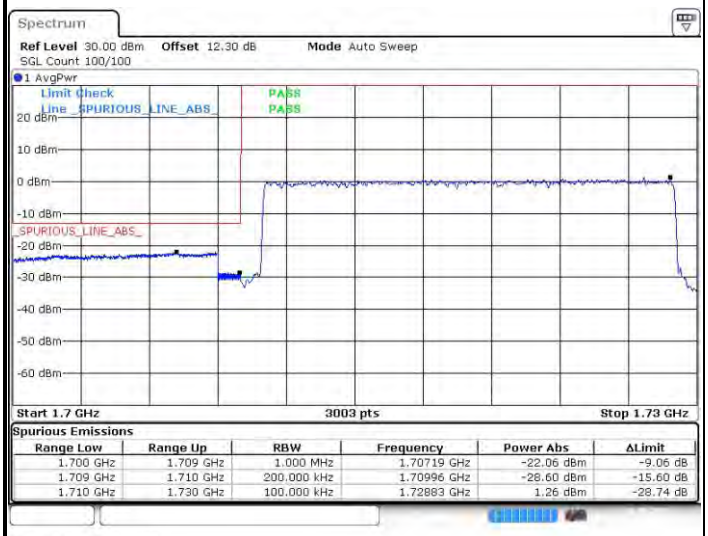


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75389 GHz	20.69 dBm	-9.31 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75504 GHz	-21.64 dBm	-8.64 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75673 GHz	-34.18 dBm	-21.18 dB

Date: 16.MAY.2015 11:43:37

Lowest Band Edge / Full RB

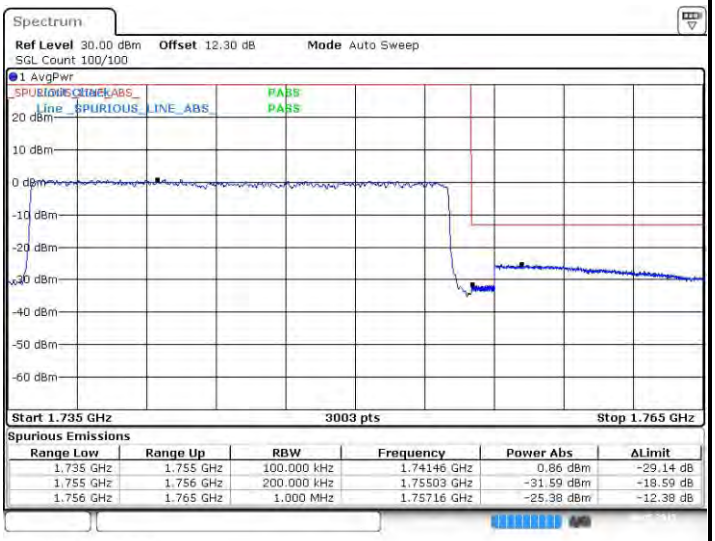


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70719 GHz	-22.06 dBm	-9.06 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70996 GHz	-26.60 dBm	-15.60 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.72883 GHz	1.26 dBm	-28.74 dB

Date: 16.MAY.2015 11:35:02

Highest Band Edge / Full RB



Spurious Emissions

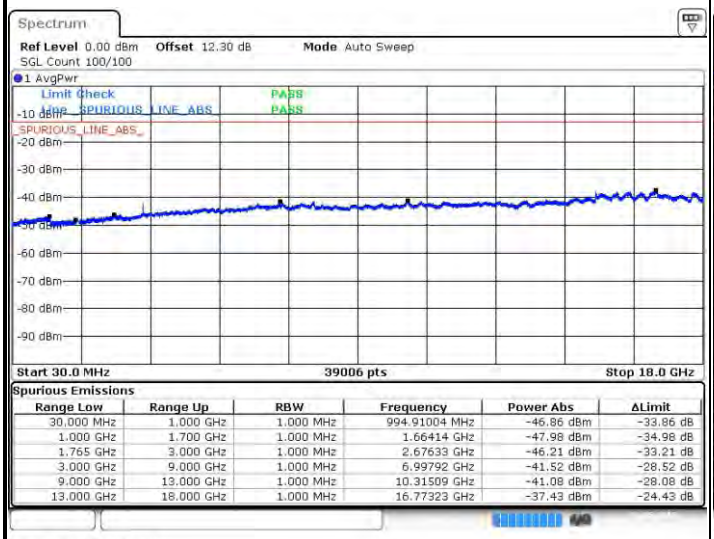
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.74146 GHz	0.86 dBm	-29.14 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75503 GHz	-31.59 dBm	-18.59 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75716 GHz	-25.38 dBm	-12.38 dB

Date: 16.MAY.2015 11:45:57

Conducted Spurious Emission

LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

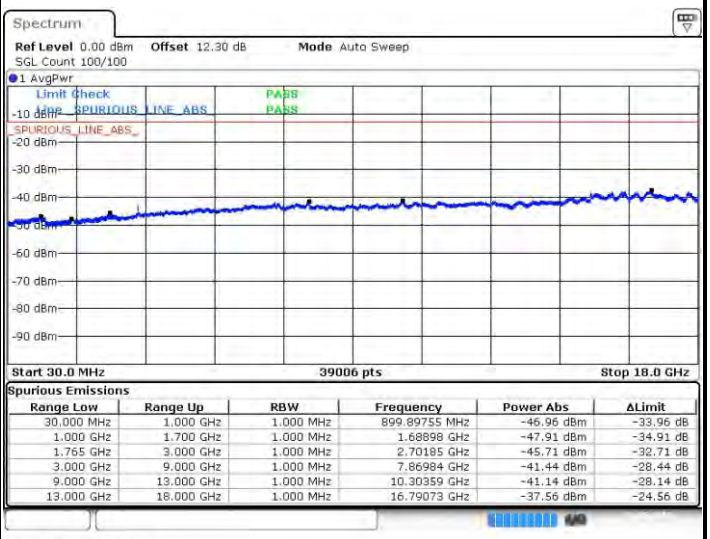


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.91004 MHz	-46.86 dBm	-33.86 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66414 GHz	-47.98 dBm	-34.98 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.67633 GHz	-46.21 dBm	-33.21 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99792 GHz	-41.52 dBm	-28.52 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.31509 GHz	-41.08 dBm	-28.08 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.77323 GHz	-37.43 dBm	-24.43 dB

Date: 16.MAY.2015 11:54:59

Lowest Channel / 16QAM

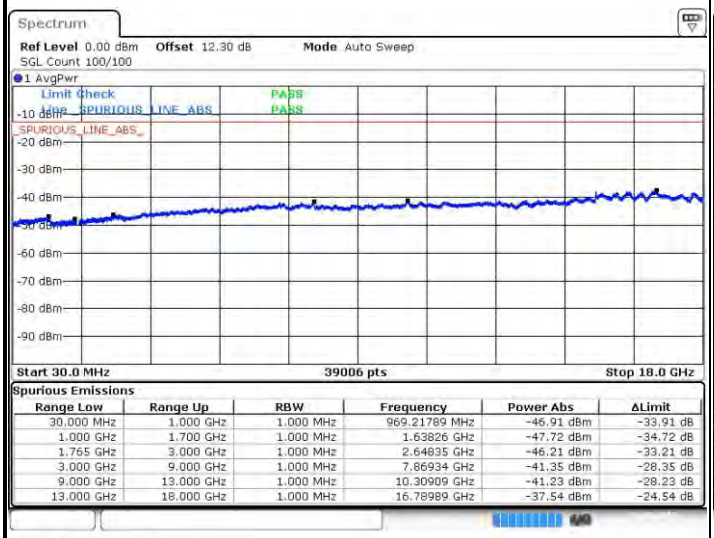


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	899.89755 MHz	-46.96 dBm	-33.96 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68898 GHz	-47.91 dBm	-34.91 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.70185 GHz	-45.71 dBm	-32.71 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86984 GHz	-41.44 dBm	-28.44 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.30359 GHz	-41.14 dBm	-28.14 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.79073 GHz	-37.56 dBm	-24.56 dB

Date: 16.MAY.2015 11:56:09

Middle Channel / QPSK

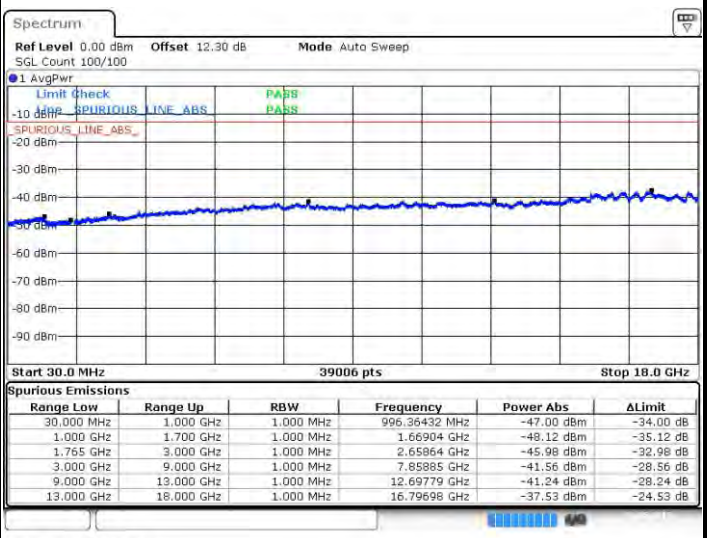


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	969.21789 MHz	-46.91 dBm	-33.91 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63826 GHz	-47.72 dBm	-34.72 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.64835 GHz	-46.21 dBm	-33.21 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86934 GHz	-41.35 dBm	-28.35 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.30909 GHz	-41.23 dBm	-28.23 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78989 GHz	-37.54 dBm	-24.54 dB

Date: 16.MAY.2015 11:58:07

Middle Channel / 16QAM



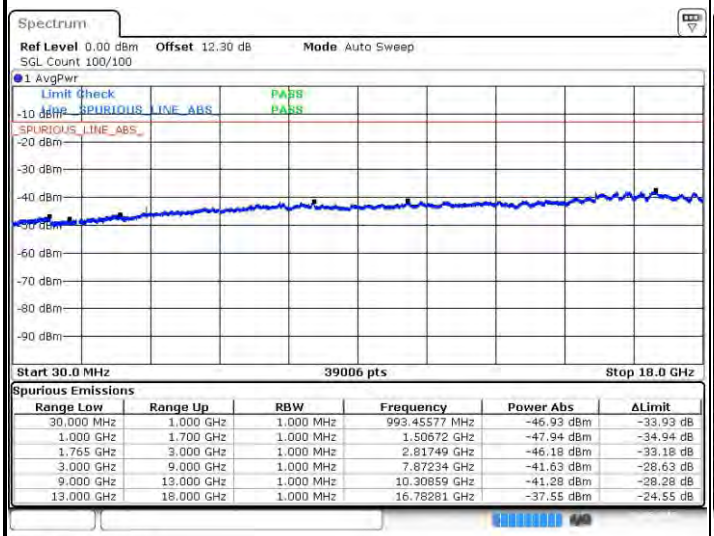
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	996.36432 MHz	-47.00 dBm	-34.00 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66904 GHz	-48.12 dBm	-35.12 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.65864 GHz	-45.98 dBm	-32.98 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.85885 GHz	-41.56 dBm	-28.56 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69779 GHz	-41.24 dBm	-28.24 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.79698 GHz	-37.53 dBm	-24.53 dB

Date: 16.MAY.2015 11:59:17

LTE Band 4 / 1.4MHz

Highest Channel / QPSK

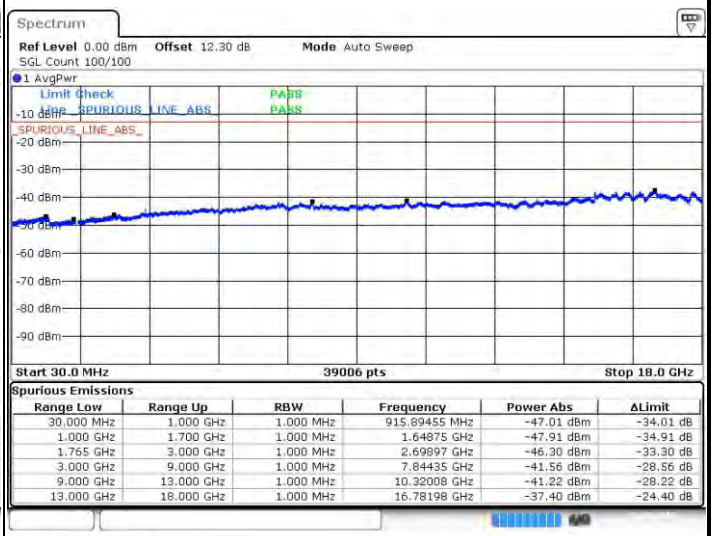


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	993.45577 MHz	-46.93 dBm	-33.93 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.50672 GHz	-47.94 dBm	-34.94 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.81749 GHz	-46.18 dBm	-33.18 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.87234 GHz	-41.63 dBm	-28.63 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.30859 GHz	-41.28 dBm	-28.28 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78281 GHz	-37.55 dBm	-24.55 dB

Date: 16.MAY.2015 12:05:54

Highest Channel / 16QAM



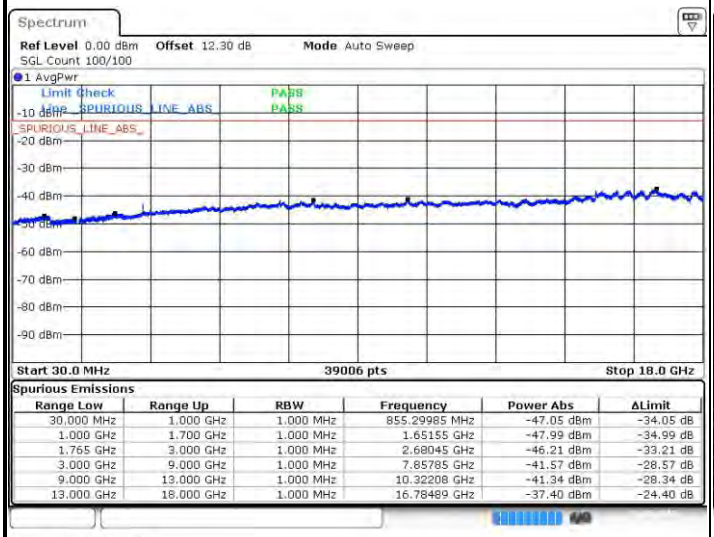
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	915.89455 MHz	-47.01 dBm	-34.01 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.64875 GHz	-47.91 dBm	-34.91 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.69897 GHz	-46.30 dBm	-33.30 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.84435 GHz	-41.56 dBm	-28.56 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.32008 GHz	-41.22 dBm	-28.22 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78198 GHz	-37.40 dBm	-24.40 dB

Date: 16.MAY.2015 12:07:04

LTE Band 4 / 3MHz

Lowest Channel / QPSK

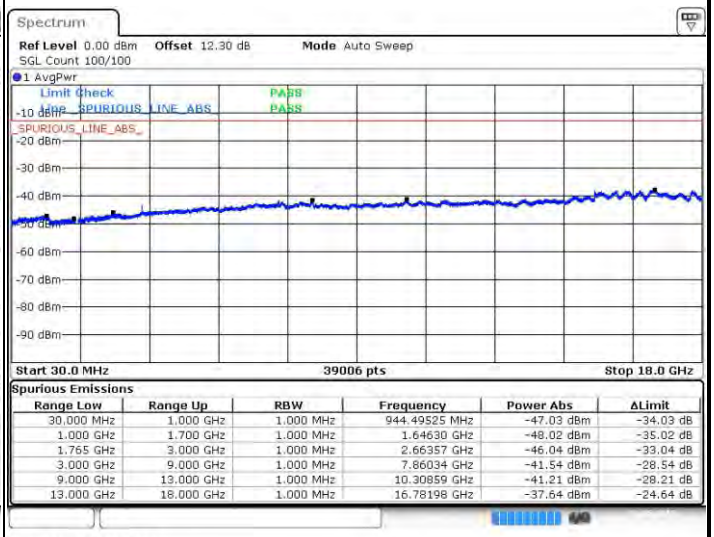


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	855.29985 MHz	-47.05 dBm	-34.05 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65155 GHz	-47.99 dBm	-34.99 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.68045 GHz	-46.21 dBm	-33.21 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.85785 GHz	-41.57 dBm	-28.57 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.32208 GHz	-41.34 dBm	-28.34 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78489 GHz	-37.40 dBm	-24.40 dB

Date: 16.MAY.2015 10:20:03

Lowest Channel / 16QAM



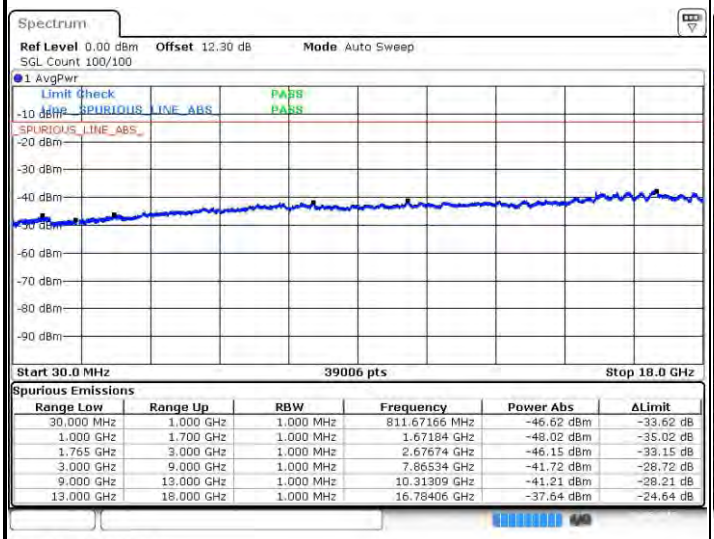
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	944.49525 MHz	-47.03 dBm	-34.03 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.64630 GHz	-48.02 dBm	-35.02 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.66357 GHz	-46.04 dBm	-33.04 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86034 GHz	-41.54 dBm	-28.54 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.30859 GHz	-41.21 dBm	-28.21 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78198 GHz	-37.64 dBm	-24.64 dB

Date: 16.MAY.2015 10:21:13

LTE Band 4 / 3MHz

Middle Channel / QPSK

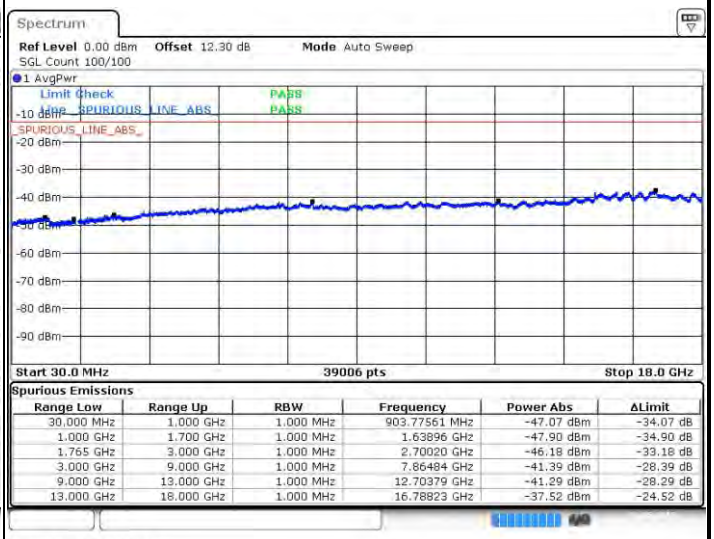


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	811.67166 MHz	-46.62 dBm	-33.62 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67184 GHz	-48.02 dBm	-35.02 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.67674 GHz	-46.15 dBm	-33.15 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86534 GHz	-41.72 dBm	-28.72 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.31309 GHz	-41.21 dBm	-28.21 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78406 GHz	-37.64 dBm	-24.64 dB

Date: 16.MAY.2015 10:23:11

Middle Channel / 16QAM

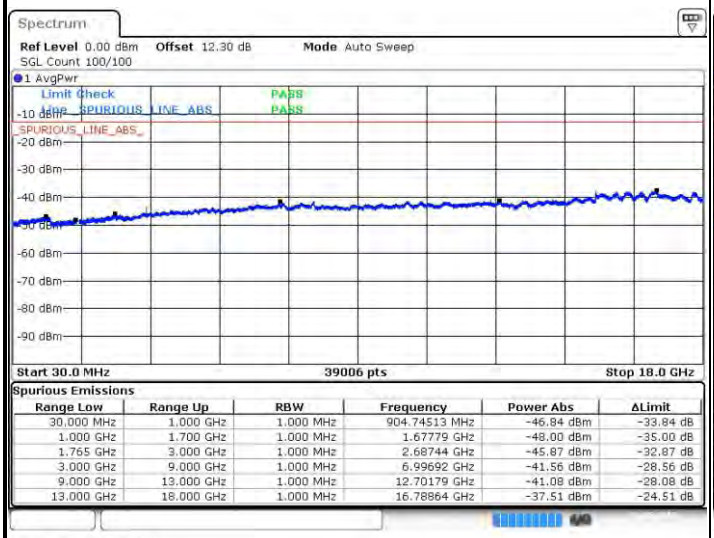


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	903.77561 MHz	-47.07 dBm	-34.07 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63896 GHz	-47.90 dBm	-34.90 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.70020 GHz	-46.18 dBm	-33.18 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86484 GHz	-41.39 dBm	-28.39 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70379 GHz	-41.29 dBm	-28.29 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78823 GHz	-37.52 dBm	-24.52 dB

Date: 16.MAY.2015 10:24:21

Highest Channel / QPSK

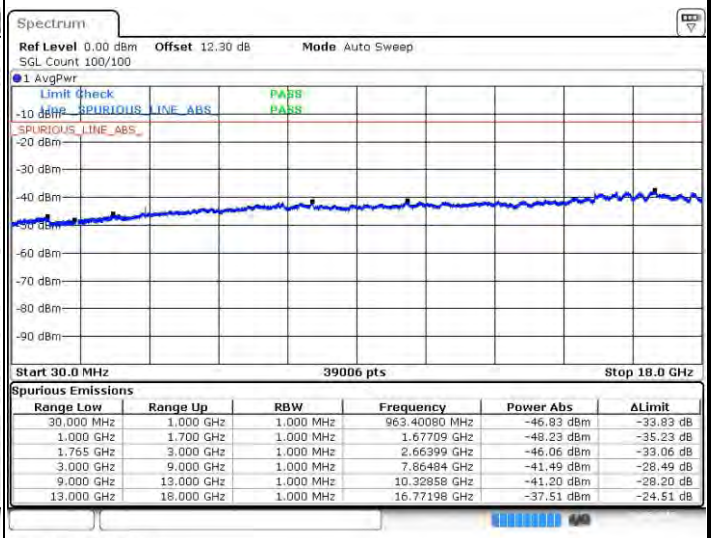


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	904.74513 MHz	-46.84 dBm	-33.84 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67779 GHz	-48.00 dBm	-35.00 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.68744 GHz	-45.87 dBm	-32.87 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99692 GHz	-41.56 dBm	-28.56 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70179 GHz	-41.08 dBm	-28.08 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78864 GHz	-37.51 dBm	-24.51 dB

Date: 16.MAY.2015 10:30:58

Highest Channel / 16QAM



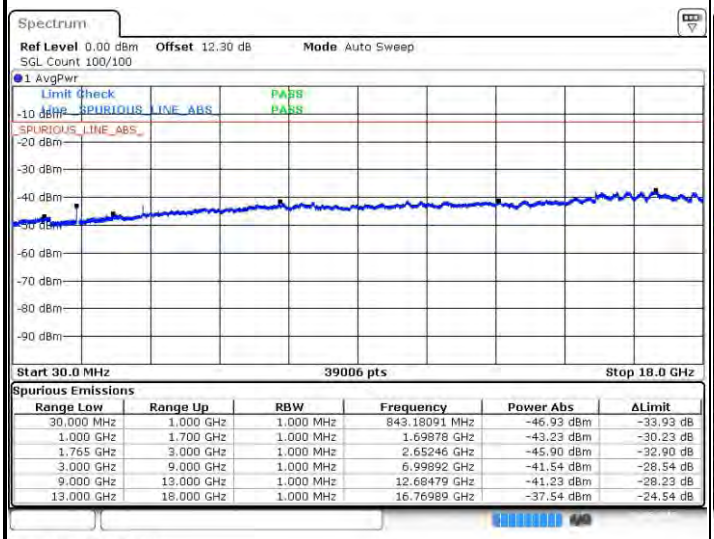
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	963.40080 MHz	-46.83 dBm	-33.83 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67709 GHz	-48.23 dBm	-35.23 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.66399 GHz	-46.06 dBm	-33.06 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86484 GHz	-41.49 dBm	-28.49 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.32858 GHz	-41.20 dBm	-28.20 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.77198 GHz	-37.51 dBm	-24.51 dB

Date: 16.MAY.2015 10:32:09

LTE Band 4 / 5MHz

Lowest Channel / QPSK

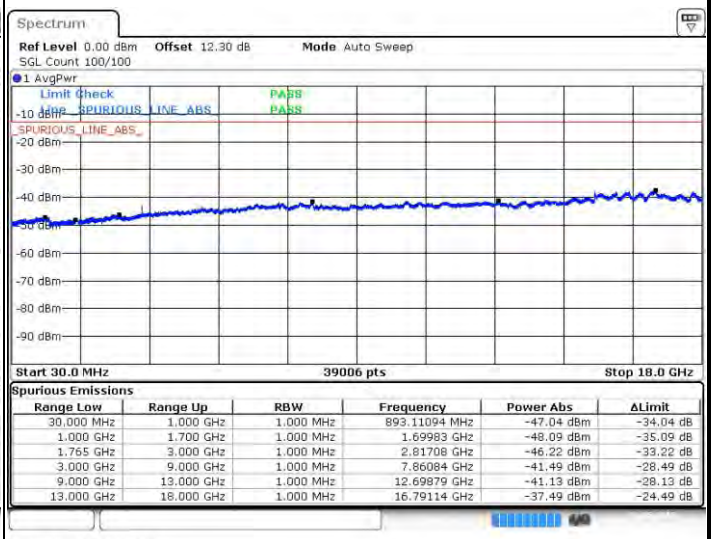


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	843.18091 MHz	-46.93 dBm	-33.93 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69878 GHz	-43.23 dBm	-30.23 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.65246 GHz	-45.90 dBm	-32.90 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99892 GHz	-41.54 dBm	-28.54 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.68479 GHz	-41.23 dBm	-28.23 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.76989 GHz	-37.54 dBm	-24.54 dB

Date: 16.MAY.2015 10:38:50

Lowest Channel / 16QAM

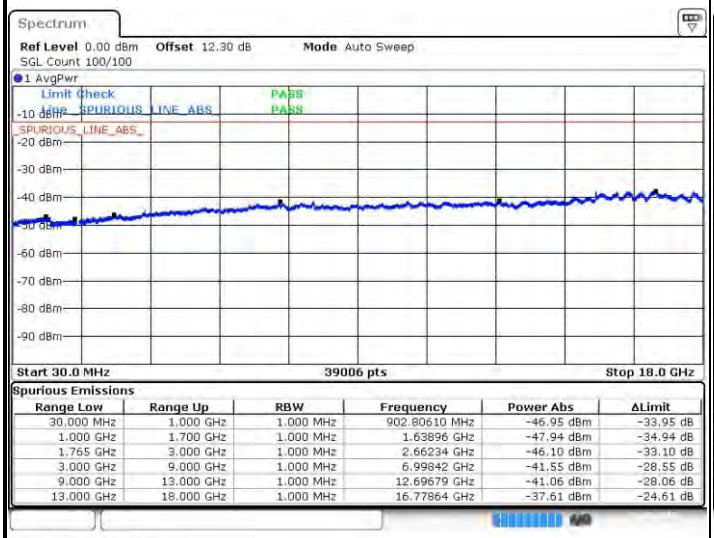


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	893.11094 MHz	-47.04 dBm	-34.04 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-48.09 dBm	-35.09 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.81708 GHz	-46.22 dBm	-33.22 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86084 GHz	-41.49 dBm	-28.49 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69879 GHz	-41.13 dBm	-28.13 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.79114 GHz	-37.49 dBm	-24.49 dB

Date: 16.MAY.2015 10:40:00

Middle Channel / QPSK

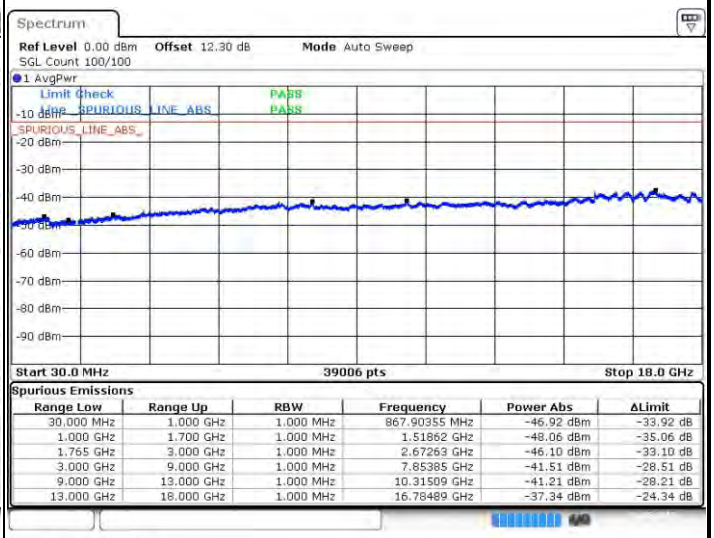


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	902.80610 MHz	-46.95 dBm	-33.95 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63896 GHz	-47.94 dBm	-34.94 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.66234 GHz	-46.10 dBm	-33.10 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99842 GHz	-41.55 dBm	-28.55 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69679 GHz	-41.06 dBm	-28.06 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.77864 GHz	-37.61 dBm	-24.61 dB

Date: 16.MAY.2015 10:41:57

Middle Channel / 16QAM



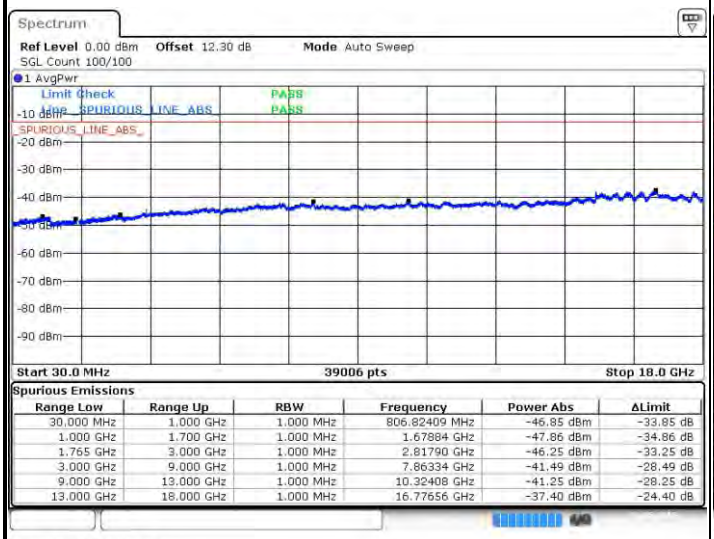
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	867.90355 MHz	-46.92 dBm	-33.92 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.51862 GHz	-48.06 dBm	-35.06 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.67263 GHz	-46.10 dBm	-33.10 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.85385 GHz	-41.51 dBm	-28.51 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.31509 GHz	-41.21 dBm	-28.21 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78489 GHz	-37.34 dBm	-24.34 dB

Date: 16.MAY.2015 10:43:08

LTE Band 4 / 5MHz

Highest Channel / QPSK

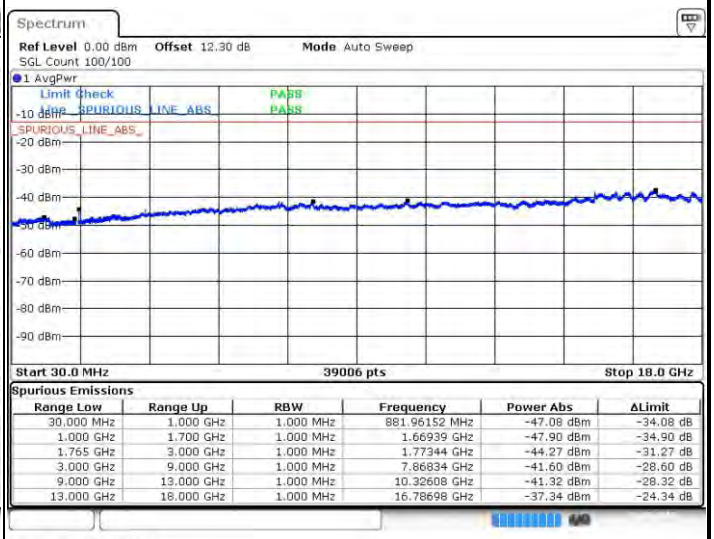


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	806.82409 MHz	-46.85 dBm	-33.85 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67884 GHz	-47.86 dBm	-34.86 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.81790 GHz	-46.25 dBm	-33.25 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86334 GHz	-41.49 dBm	-28.49 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.32408 GHz	-41.25 dBm	-28.25 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.77656 GHz	-37.40 dBm	-24.40 dB

Date: 16.MAY.2015 10:49:45

Highest Channel / 16QAM



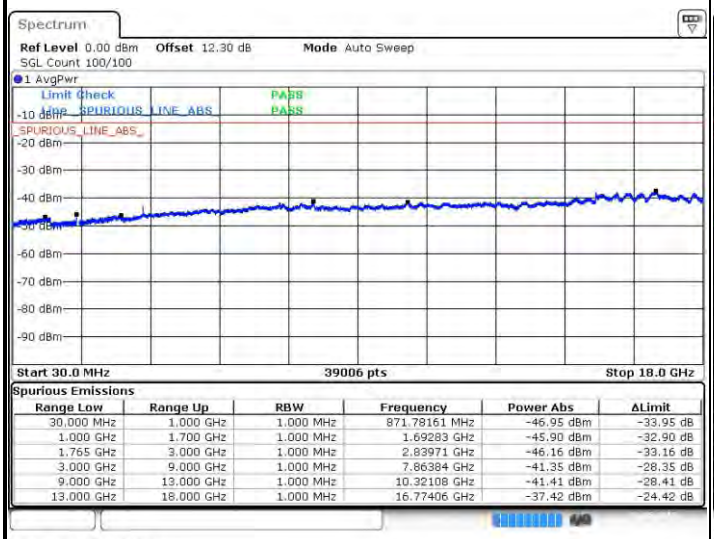
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	881.96152 MHz	-47.08 dBm	-34.08 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66939 GHz	-47.90 dBm	-34.90 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.77344 GHz	-44.27 dBm	-31.27 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86834 GHz	-41.60 dBm	-28.60 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.32608 GHz	-41.32 dBm	-28.32 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78698 GHz	-37.34 dBm	-24.34 dB

Date: 16.MAY.2015 10:50:55

LTE Band 4 / 10MHz

Lowest Channel / QPSK

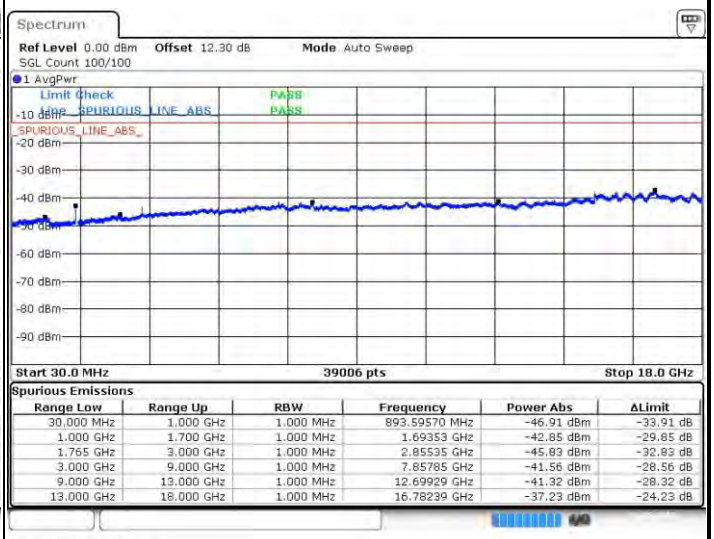


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	871.78161 MHz	-46.95 dBm	-33.95 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69283 GHz	-45.90 dBm	-32.90 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.83971 GHz	-46.16 dBm	-33.16 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86384 GHz	-41.35 dBm	-28.35 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.32108 GHz	-41.41 dBm	-28.41 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.77406 GHz	-37.42 dBm	-24.42 dB

Date: 16.MAY.2015 10:57:36

Lowest Channel / 16QAM



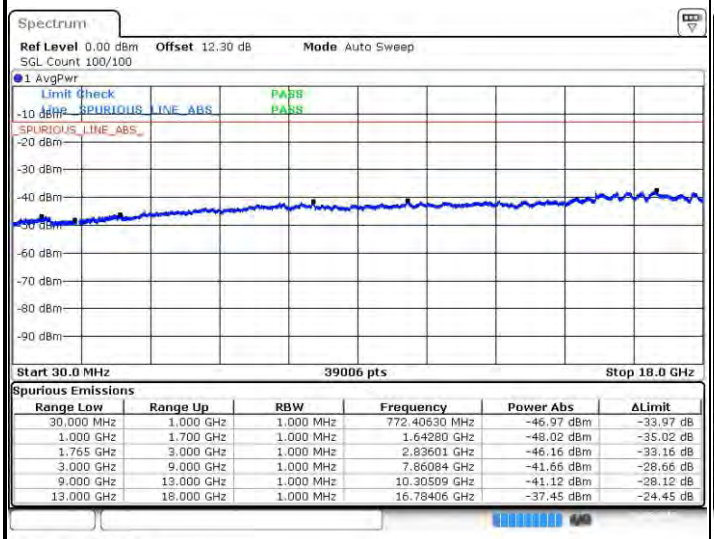
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	893.59570 MHz	-46.91 dBm	-33.91 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69353 GHz	-42.85 dBm	-29.85 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.85535 GHz	-45.83 dBm	-32.83 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.85785 GHz	-41.56 dBm	-28.56 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69929 GHz	-41.32 dBm	-28.32 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78239 GHz	-37.23 dBm	-24.23 dB

Date: 16.MAY.2015 10:58:46

LTE Band 4 / 10MHz

Middle Channel / QPSK

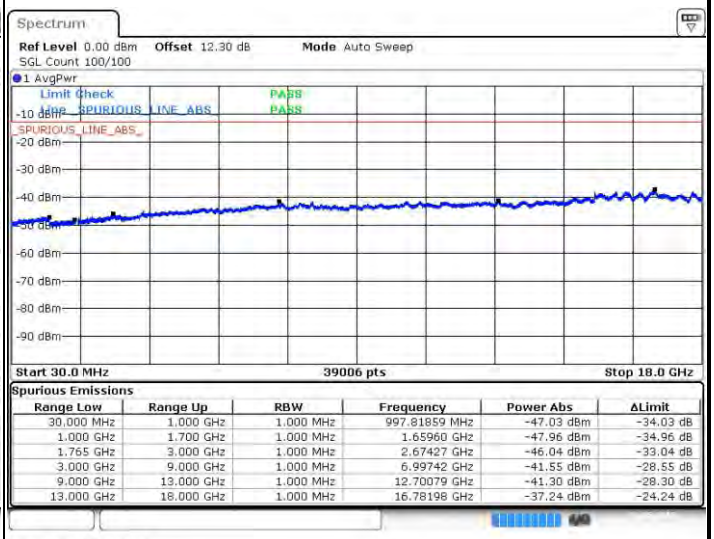


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	772.40630 MHz	-46.97 dBm	-33.97 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.64280 GHz	-48.02 dBm	-35.02 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.83601 GHz	-46.16 dBm	-33.16 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86084 GHz	-41.66 dBm	-28.66 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.30509 GHz	-41.12 dBm	-28.12 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78406 GHz	-37.45 dBm	-24.45 dB

Date: 16.MAY.2015 11:00:44

Middle Channel / 16QAM

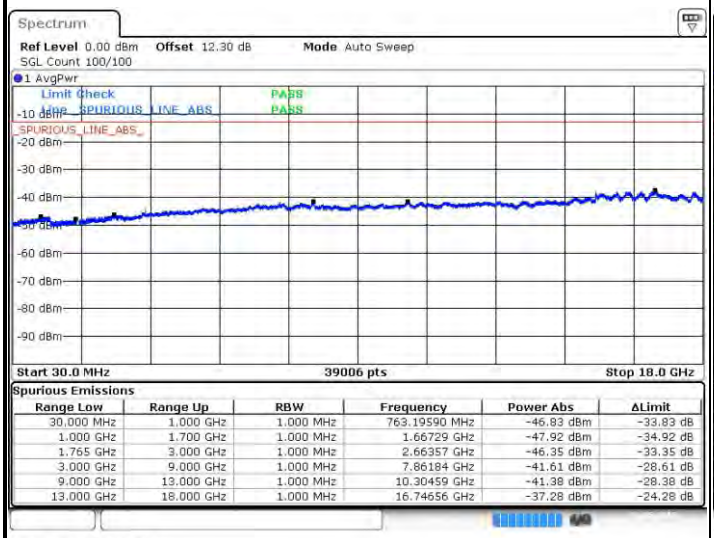


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	997.81859 MHz	-47.03 dBm	-34.03 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65960 GHz	-47.96 dBm	-34.96 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.67427 GHz	-46.04 dBm	-33.04 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99742 GHz	-41.55 dBm	-28.55 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70079 GHz	-41.30 dBm	-28.30 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78198 GHz	-37.24 dBm	-24.24 dB

Date: 16.MAY.2015 11:01:54

Highest Channel / QPSK

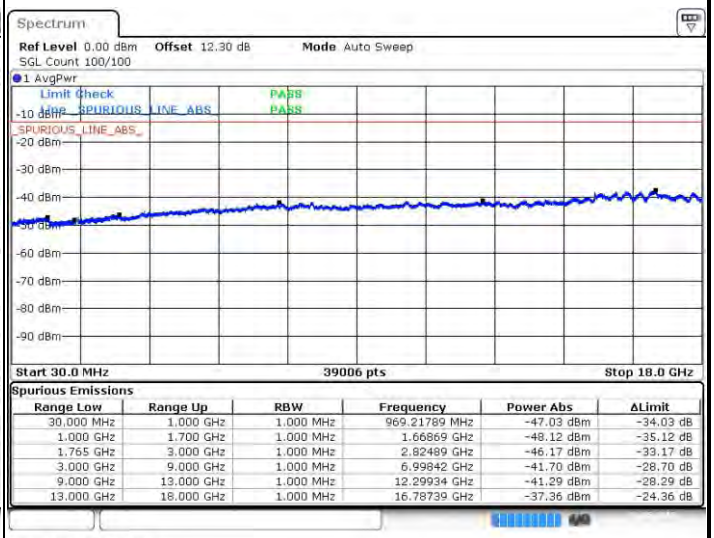


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	763.19590 MHz	-46.83 dBm	-33.83 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66729 GHz	-47.92 dBm	-34.92 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.66357 GHz	-46.35 dBm	-33.35 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86184 GHz	-41.61 dBm	-28.61 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.30459 GHz	-41.38 dBm	-28.38 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.74656 GHz	-37.28 dBm	-24.28 dB

Date: 16.MAY.2015 11:08:31

Highest Channel / 16QAM



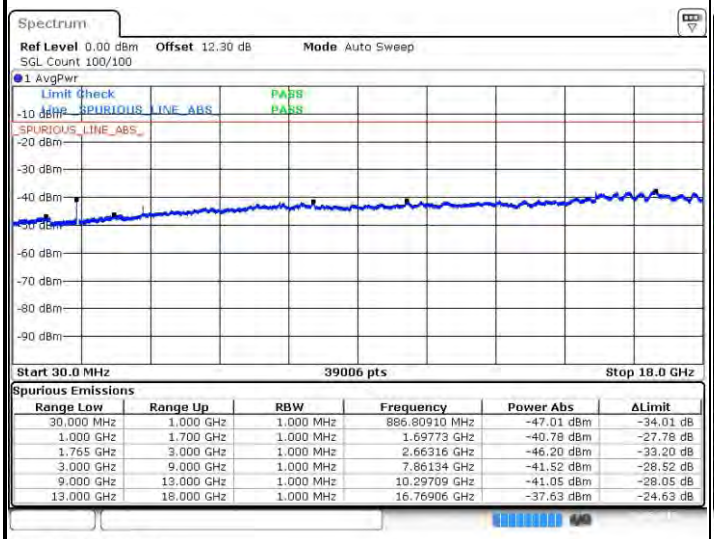
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	969.21789 MHz	-47.03 dBm	-34.03 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66869 GHz	-48.12 dBm	-35.12 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.82489 GHz	-46.17 dBm	-33.17 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99842 GHz	-41.70 dBm	-28.70 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.29934 GHz	-41.29 dBm	-28.29 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78739 GHz	-37.36 dBm	-24.36 dB

Date: 16.MAY.2015 11:09:41

LTE Band 4 / 15MHz

Lowest Channel / QPSK

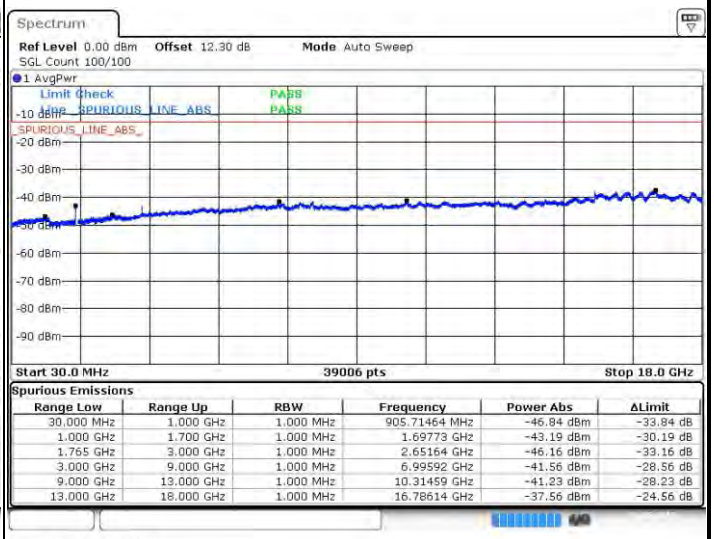


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	886.80910 MHz	-47.01 dBm	-34.01 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69773 GHz	-40.78 dBm	-27.78 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.66316 GHz	-46.20 dBm	-33.20 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86134 GHz	-41.52 dBm	-28.52 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.29709 GHz	-41.05 dBm	-28.05 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.76906 GHz	-37.63 dBm	-24.63 dB

Date: 16.MAY.2015 11:16:48

Lowest Channel / 16QAM

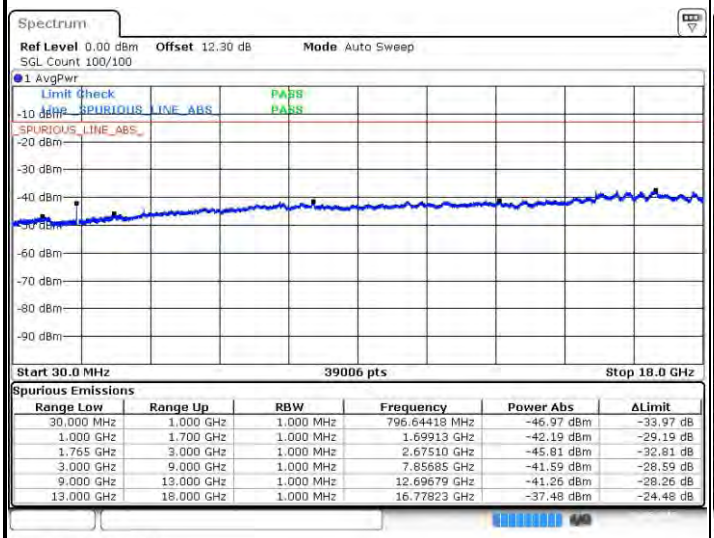


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	905.71464 MHz	-46.84 dBm	-33.84 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69773 GHz	-43.19 dBm	-30.19 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.65164 GHz	-46.16 dBm	-33.16 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99592 GHz	-41.56 dBm	-28.56 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.31459 GHz	-41.23 dBm	-28.23 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78614 GHz	-37.56 dBm	-24.56 dB

Date: 16.MAY.2015 11:17:58

Middle Channel / QPSK

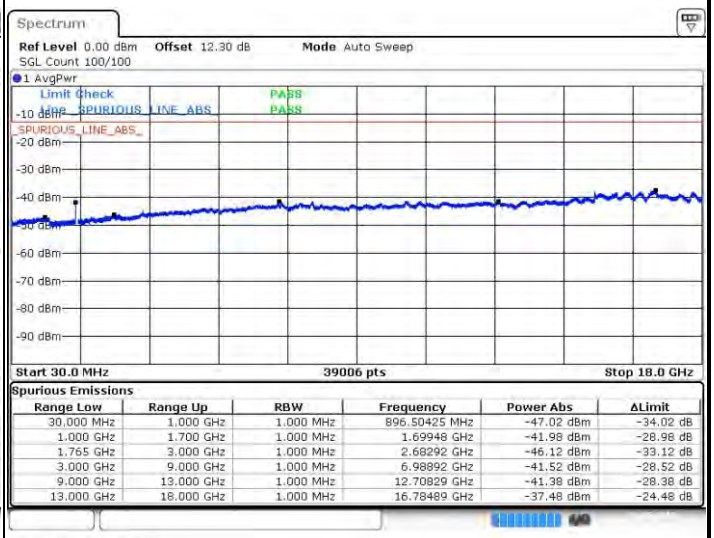


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	796.64418 MHz	-46.97 dBm	-33.97 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69913 GHz	-42.19 dBm	-29.19 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.67510 GHz	-45.81 dBm	-32.81 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.85685 GHz	-41.59 dBm	-28.59 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69679 GHz	-41.26 dBm	-28.26 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.77823 GHz	-37.48 dBm	-24.48 dB

Date: 16.MAY.2015 11:19:55

Middle Channel / 16QAM



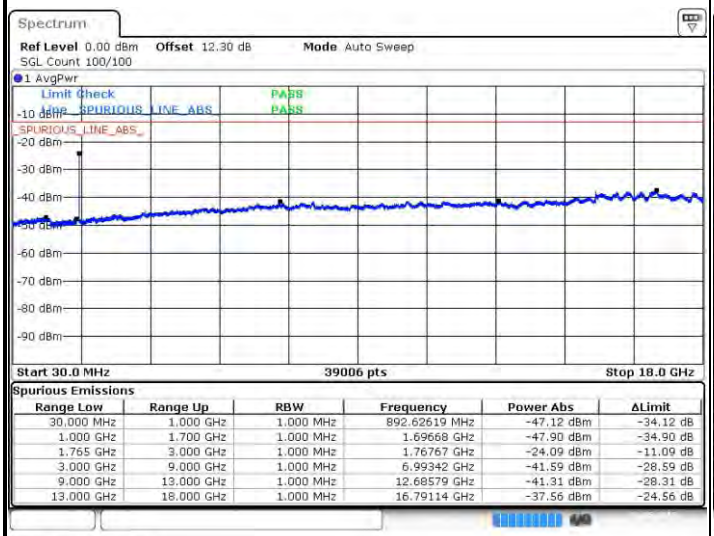
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	896.50425 MHz	-47.02 dBm	-34.02 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69948 GHz	-41.98 dBm	-28.98 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.68292 GHz	-46.12 dBm	-33.12 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98892 GHz	-41.52 dBm	-28.52 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70829 GHz	-41.38 dBm	-28.38 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78489 GHz	-37.48 dBm	-24.48 dB

Date: 16.MAY.2015 11:21:05

LTE Band 4 / 15MHz

Highest Channel / QPSK

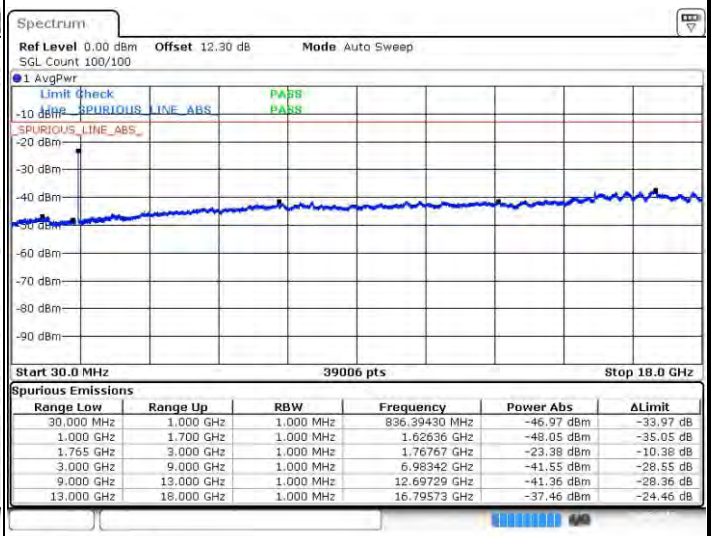


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	892.62619 MHz	-47.12 dBm	-34.12 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69668 GHz	-47.90 dBm	-34.90 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.76767 GHz	-24.09 dBm	-11.09 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99342 GHz	-41.59 dBm	-28.59 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.68579 GHz	-41.31 dBm	-28.31 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.79114 GHz	-37.56 dBm	-24.56 dB

Date: 16.MAY.2015 11:28:22

Highest Channel / 16QAM



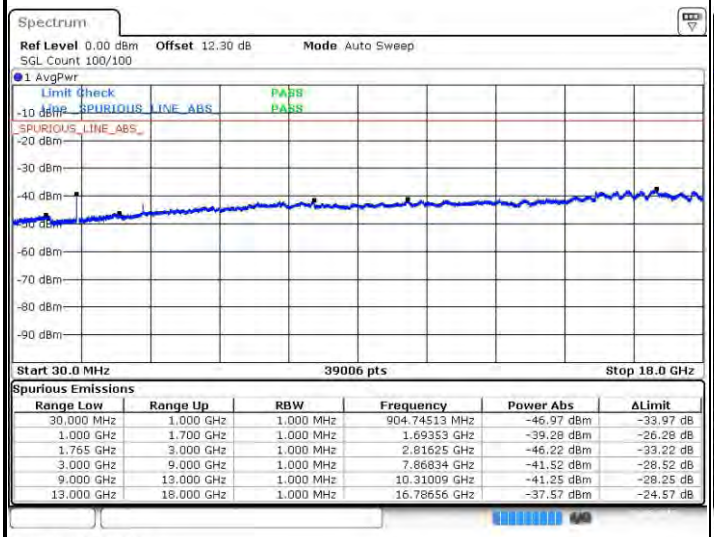
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	836.39430 MHz	-46.97 dBm	-33.97 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.62636 GHz	-48.05 dBm	-35.05 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.76767 GHz	-23.38 dBm	-10.38 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.98342 GHz	-41.55 dBm	-28.55 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69729 GHz	-41.36 dBm	-28.36 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.79573 GHz	-37.46 dBm	-24.46 dB

Date: 16.MAY.2015 11:29:32

LTE Band 4 / 20MHz

Lowest Channel / QPSK

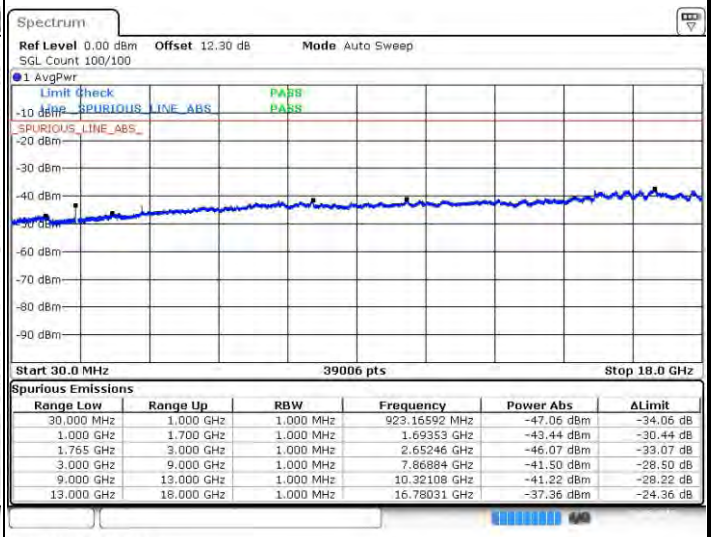


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	904.74513 MHz	-46.97 dBm	-33.97 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69353 GHz	-39.28 dBm	-26.28 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.81625 GHz	-46.22 dBm	-33.22 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86834 GHz	-41.52 dBm	-28.52 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.31009 GHz	-41.25 dBm	-28.25 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78656 GHz	-37.57 dBm	-24.57 dB

Date: 16.MAY.2015 11:36:13

Lowest Channel / 16QAM



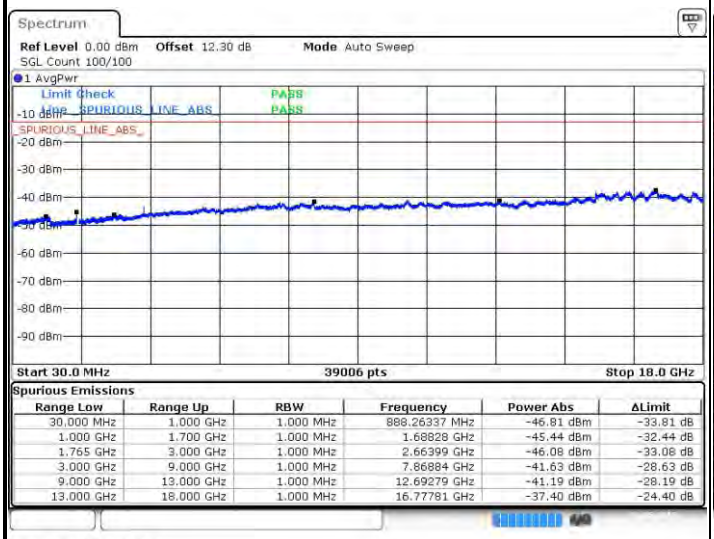
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	923.16592 MHz	-47.06 dBm	-34.06 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69353 GHz	-43.44 dBm	-30.44 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.65246 GHz	-46.07 dBm	-33.07 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86884 GHz	-41.50 dBm	-28.50 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.32108 GHz	-41.22 dBm	-28.22 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.78031 GHz	-37.36 dBm	-24.36 dB

Date: 16.MAY.2015 11:37:23

LTE Band 4 / 20MHz

Middle Channel / QPSK

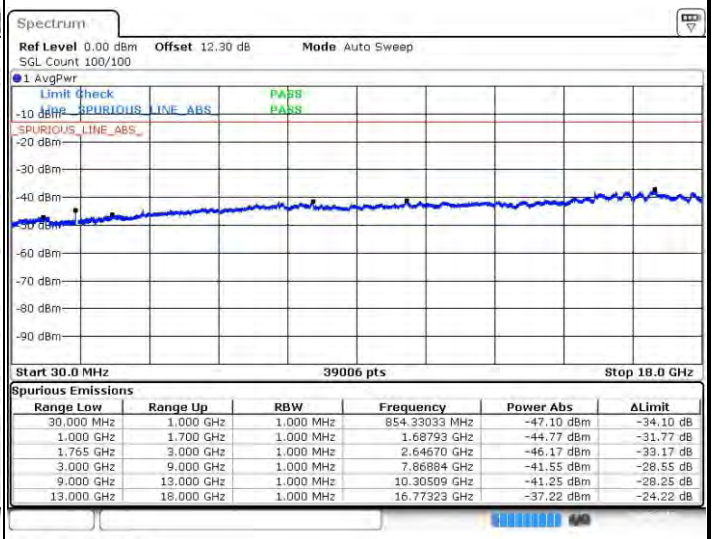


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	888.26337 MHz	-46.81 dBm	-33.81 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68828 GHz	-45.44 dBm	-32.44 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.66399 GHz	-46.08 dBm	-33.08 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86884 GHz	-41.63 dBm	-28.63 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69279 GHz	-41.19 dBm	-28.19 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.77781 GHz	-37.40 dBm	-24.40 dB

Date: 16.MAY.2015 11:39:20

Middle Channel / 16QAM

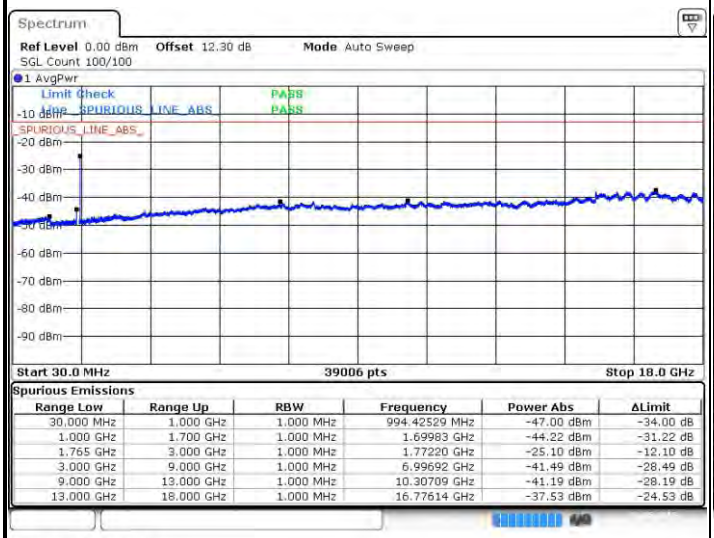


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	854.33033 MHz	-47.10 dBm	-34.10 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68793 GHz	-44.77 dBm	-31.77 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.64670 GHz	-46.17 dBm	-33.17 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.86884 GHz	-41.55 dBm	-28.55 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.30509 GHz	-41.25 dBm	-28.25 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.77323 GHz	-37.22 dBm	-24.22 dB

Date: 16.MAY.2015 11:40:31

Highest Channel / QPSK

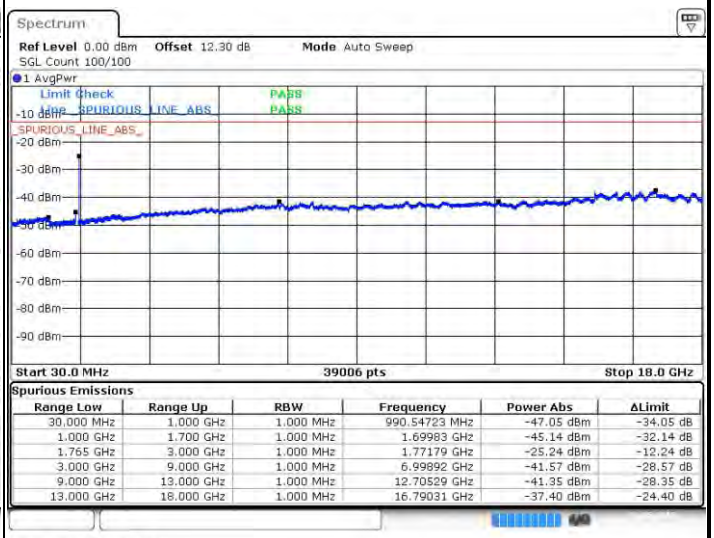


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.42529 MHz	-47.00 dBm	-34.00 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-44.22 dBm	-31.22 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.77220 GHz	-25.10 dBm	-12.10 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99692 GHz	-41.49 dBm	-28.49 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.30709 GHz	-41.19 dBm	-28.19 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.77614 GHz	-37.53 dBm	-24.53 dB

Date: 16.MAY.2015 11:47:08

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	990.54723 MHz	-47.05 dBm	-34.05 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-45.14 dBm	-32.14 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.77179 GHz	-25.24 dBm	-12.24 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99892 GHz	-41.57 dBm	-28.57 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70529 GHz	-41.35 dBm	-28.35 dB
13.000 GHz	18.000 GHz	1.000 MHz	16.79031 GHz	-37.40 dBm	-24.40 dB

Date: 16.MAY.2015 11:48:18

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0103	PASS
40	Normal Voltage	0.0095	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0091	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0080	
20	Maximum Voltage	0.0085	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage = 3.7V. ；Battery End Point (BEP) = 3.5 V.；Maximum Voltage =4.1 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

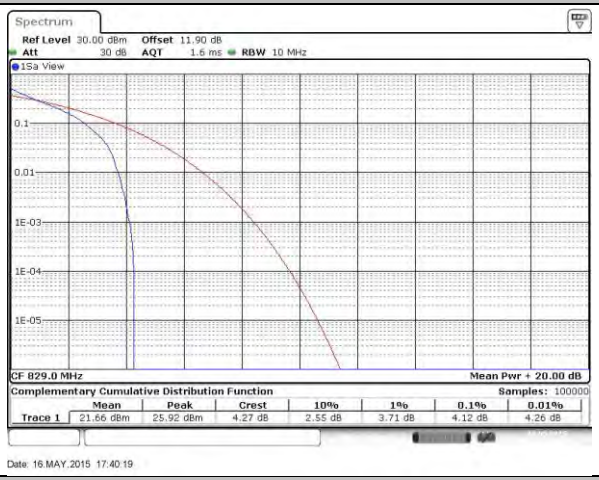
LTE Band 5

Peak-to-Average Ratio

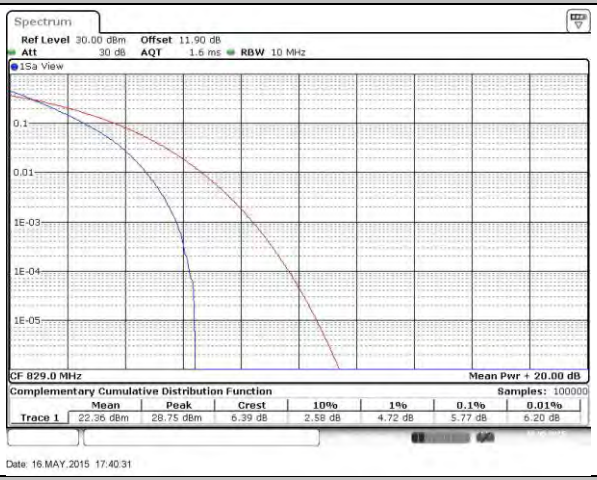
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.12	5.77	5.65	6.49	PASS
Middle CH	5.65	5.94	6.17	6.72	
Highest CH	5.01	5.74	5.88	6.52	

LTE Band 5 / 10MHz / QPSK

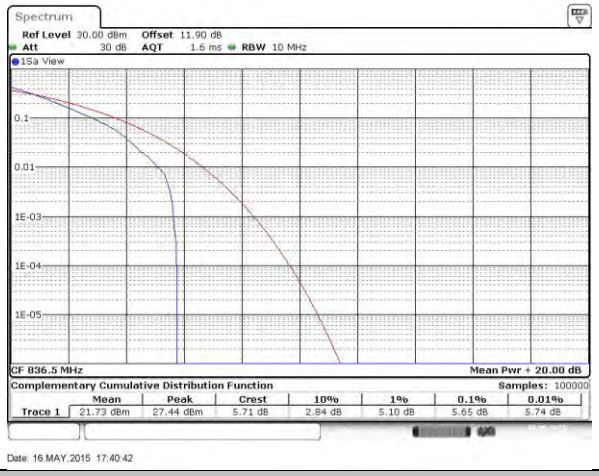
Lowest Channel / 1RB



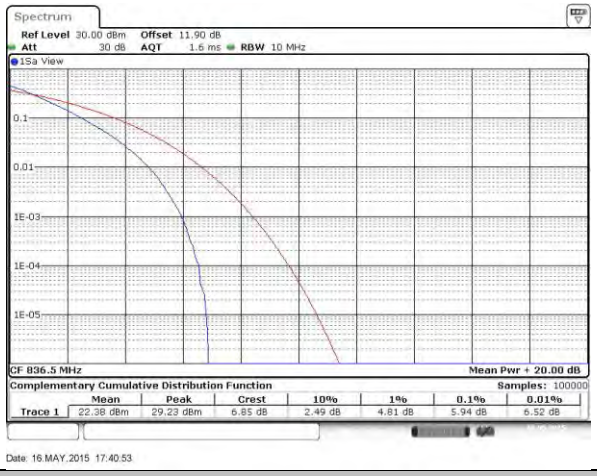
Lowest Channel / Full RB



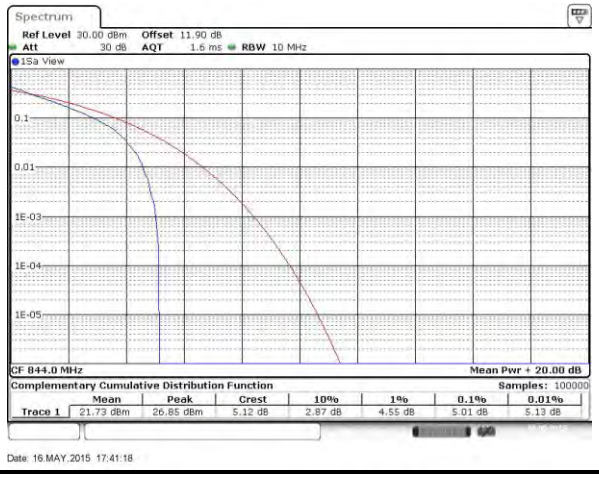
Middle Channel / 1RB



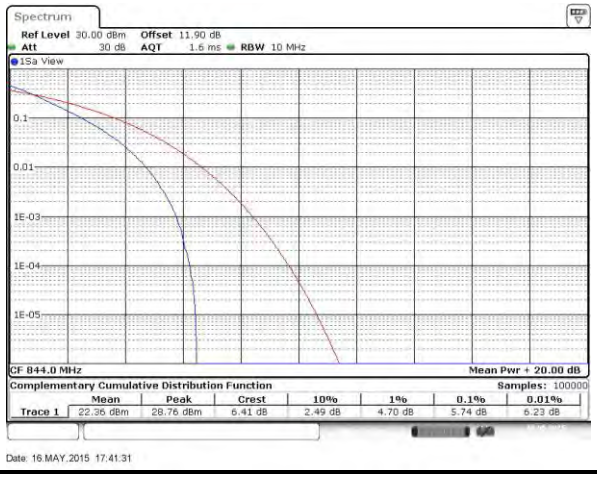
Middle Channel / Full RB



Highest Channel / 1RB

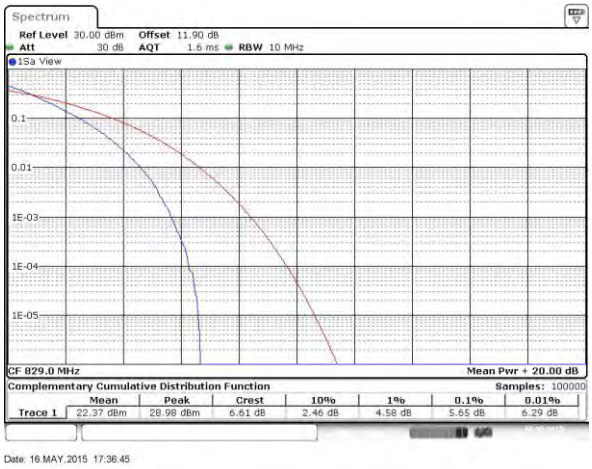


Highest Channel / Full RB

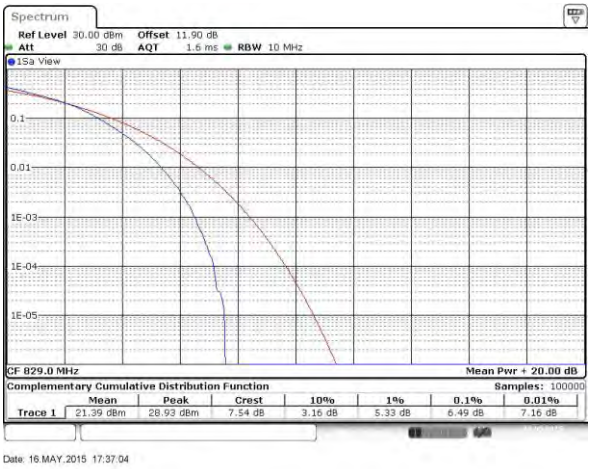


LTE Band 5 / 10MHz / 16QAM

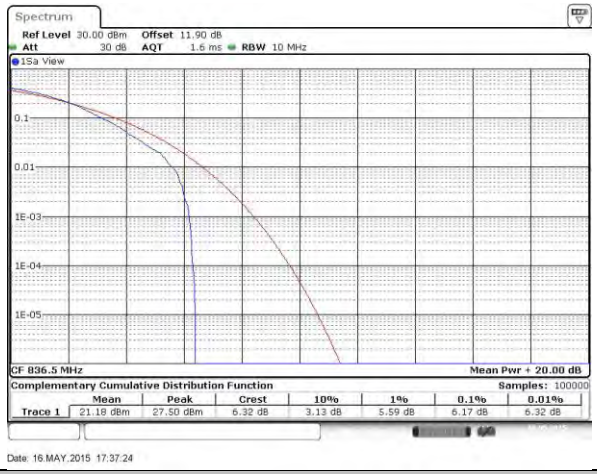
Lowest Channel / 1RB



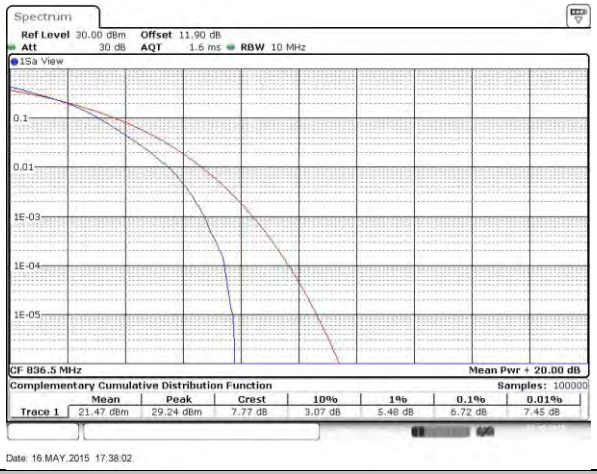
Lowest Channel / Full RB



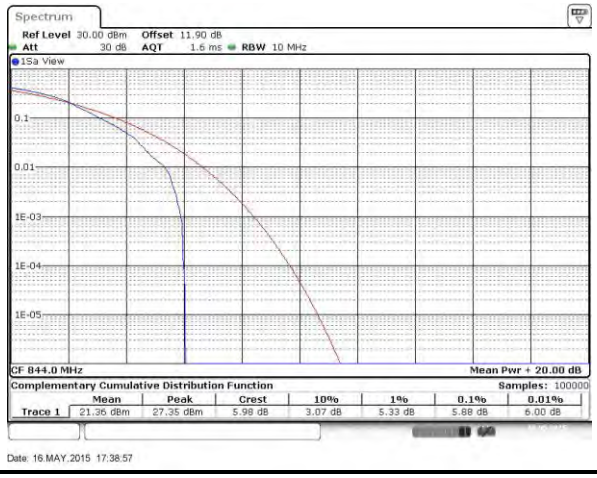
Middle Channel / 1RB



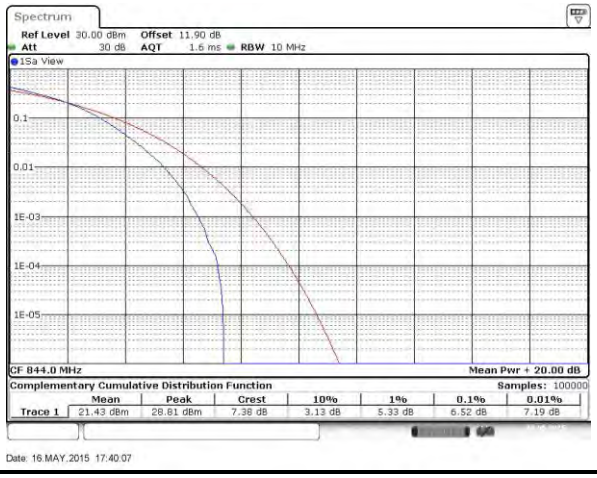
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

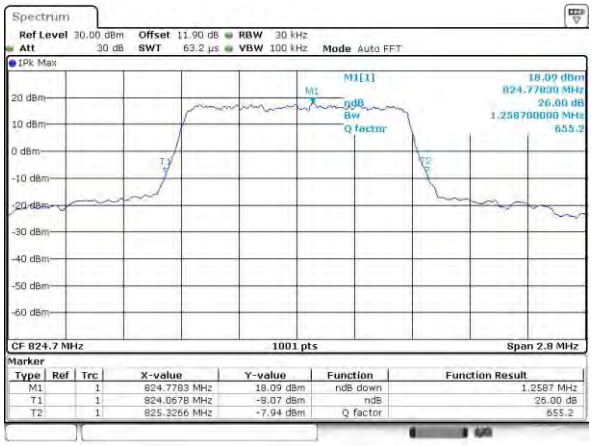


26dB Bandwidth

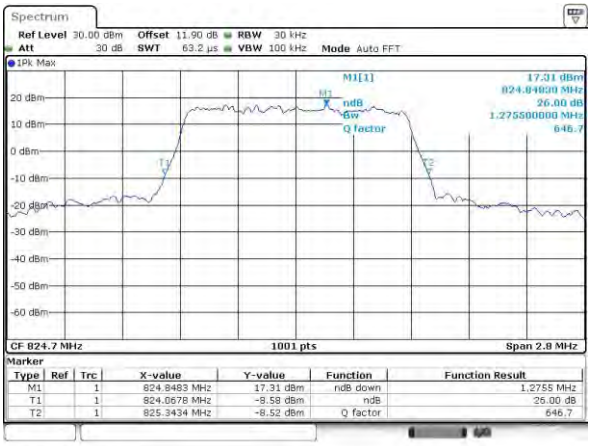
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.26	1.28	3.03	3.02	5.07	5.07	10.05	10.03	-	-	-	-
Middle CH	1.27	1.27	3.04	3.03	5.11	5.03	9.95	9.89	-	-	-	-
Highest CH	1.26	1.28	3.04	3.03	5.10	5.10	10.03	9.99	-	-	-	-

LTE Band 5

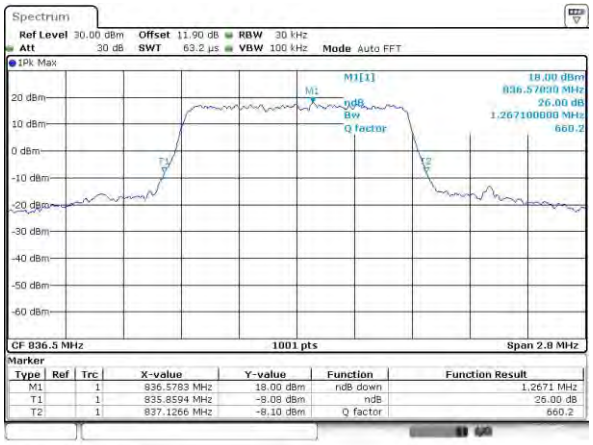
Lowest Channel / 1.4MHz / QPSK



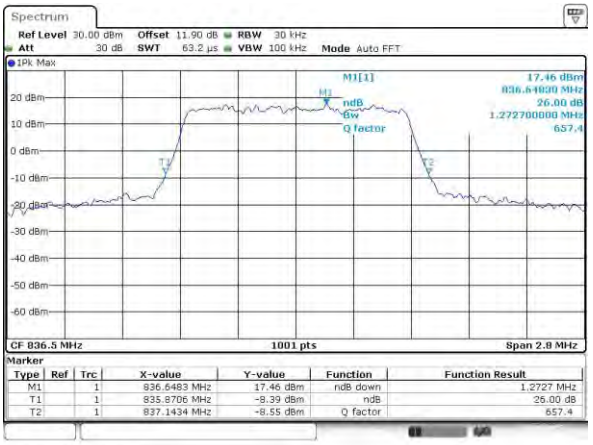
Lowest Channel / 1.4MHz / 16QAM



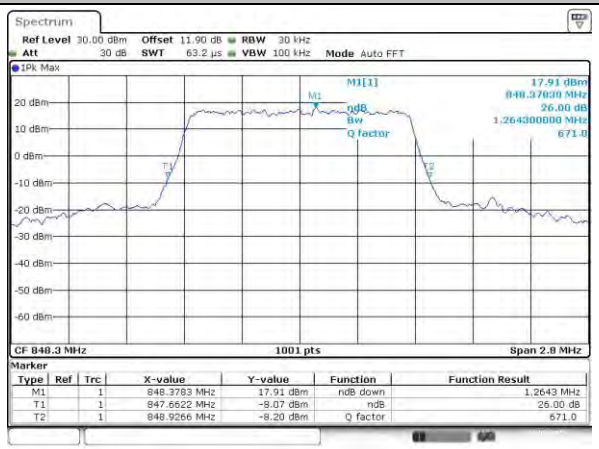
Middle Channel / 1.4MHz / QPSK



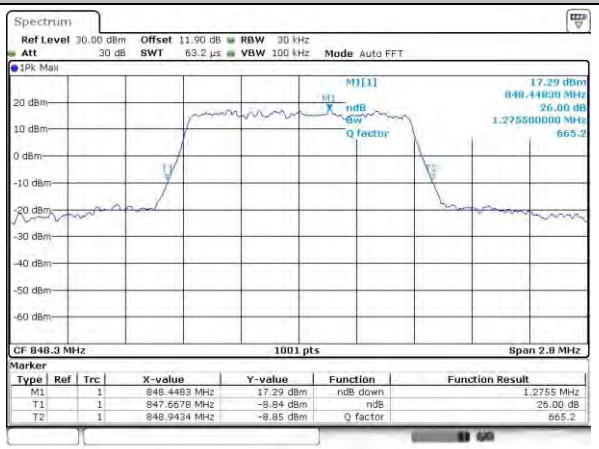
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

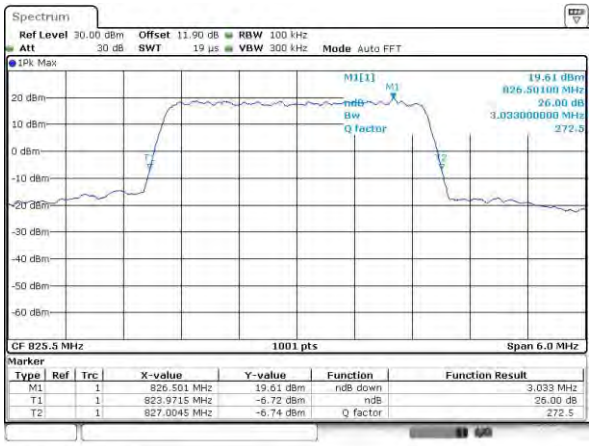


Highest Channel / 1.4MHz / 16QAM

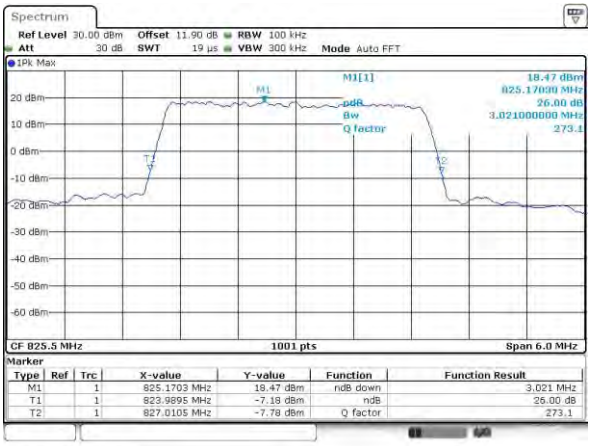


LTE Band 5

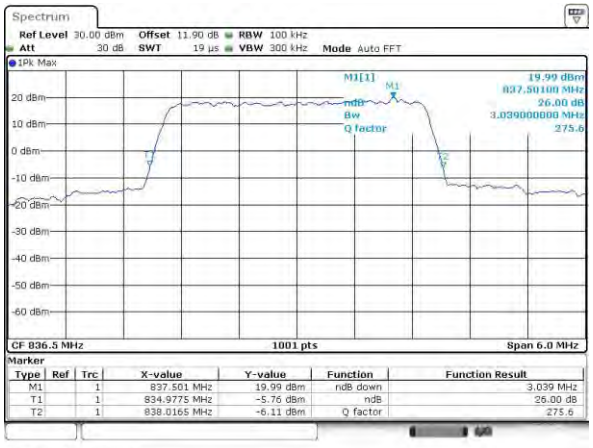
Lowest Channel / 3MHz / QPSK



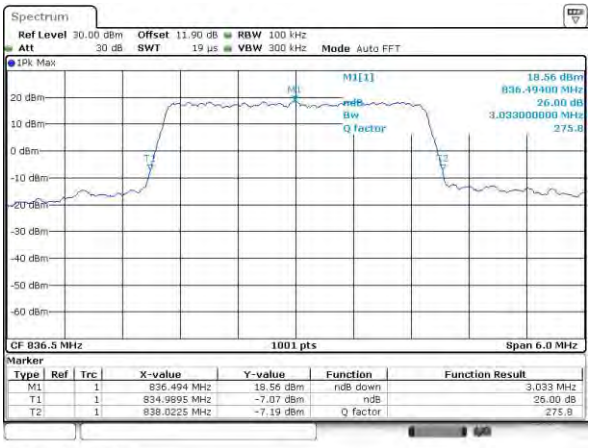
Lowest Channel / 3MHz / 16QAM



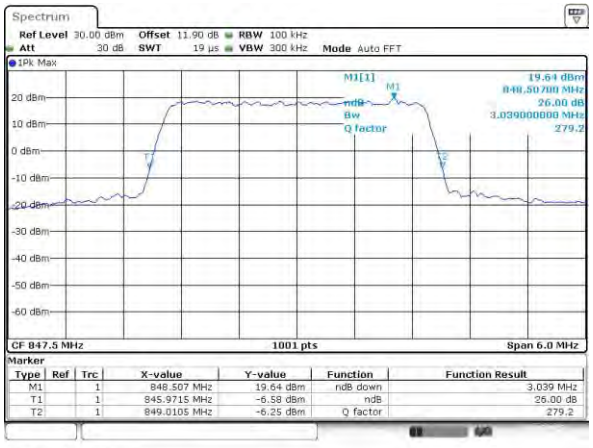
Middle Channel / 3MHz / QPSK



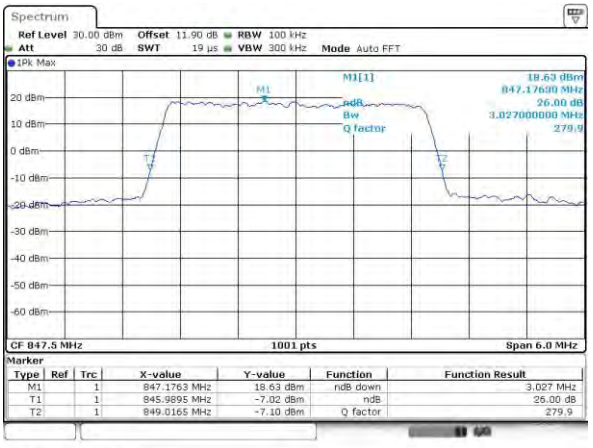
Middle Channel /3MHz / 16QAM



Highest Channel /3MHz / QPSK

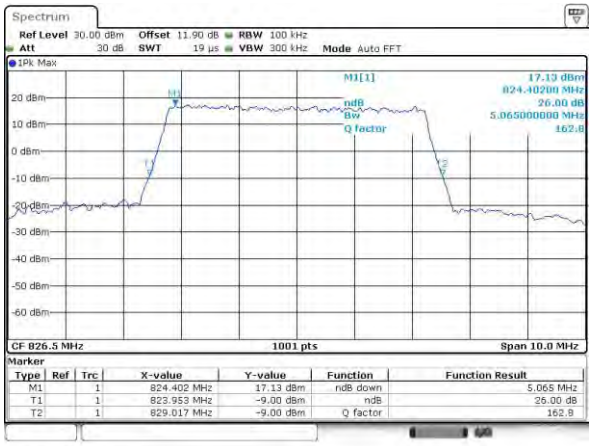


Highest Channel /3MHz / 16QAM

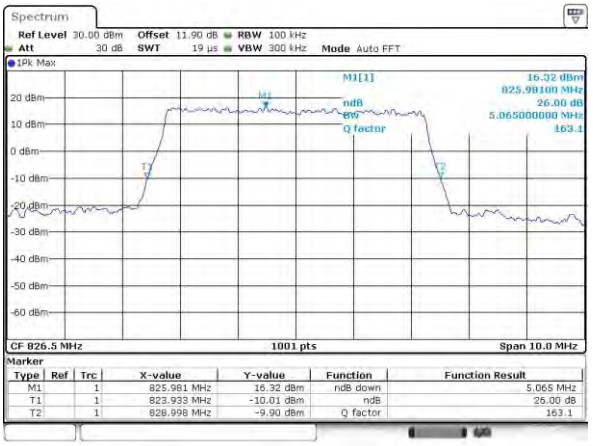


LTE Band 5

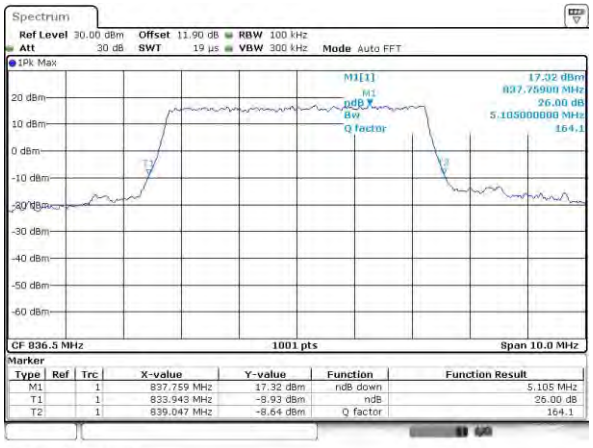
Lowest Channel / 5MHz / QPSK



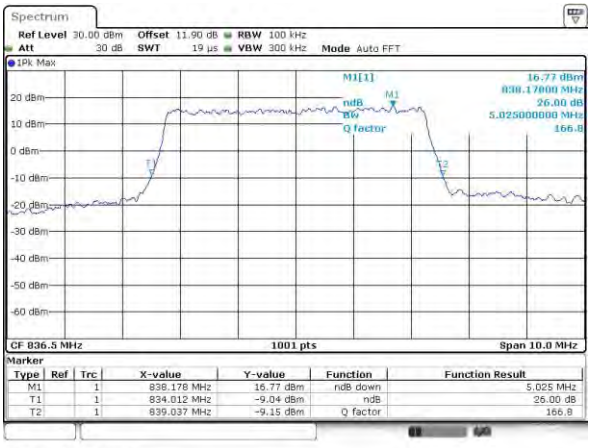
Lowest Channel / 5MHz / 16QAM



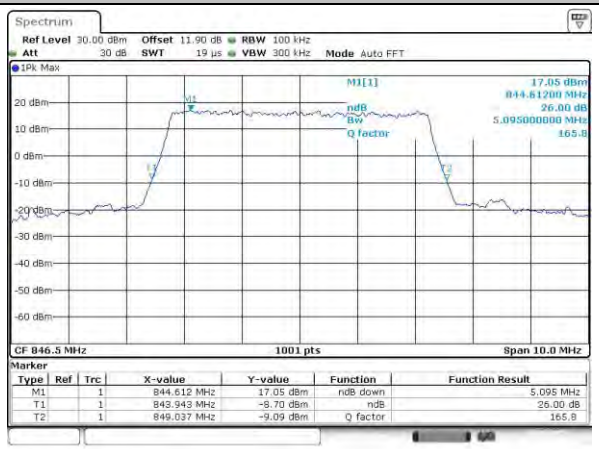
Middle Channel / 5MHz / QPSK



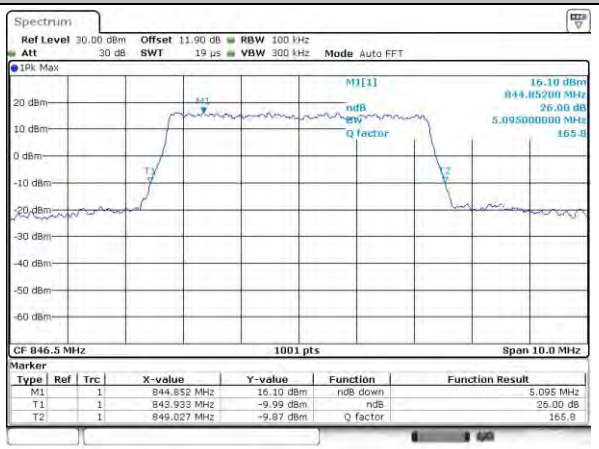
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

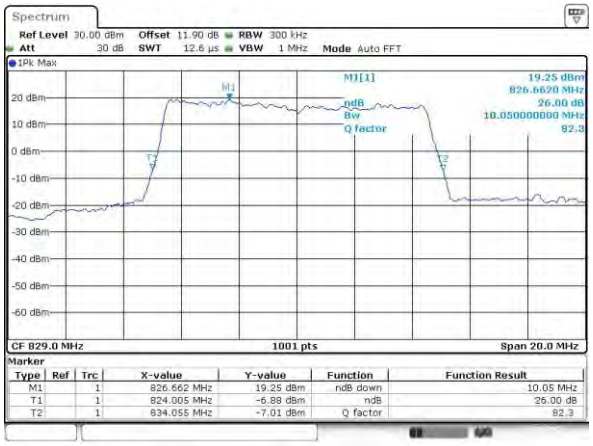


Highest Channel / 5MHz / 16QAM

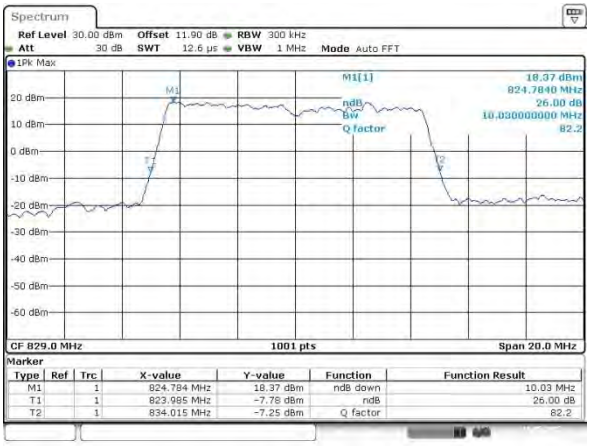


LTE Band 5

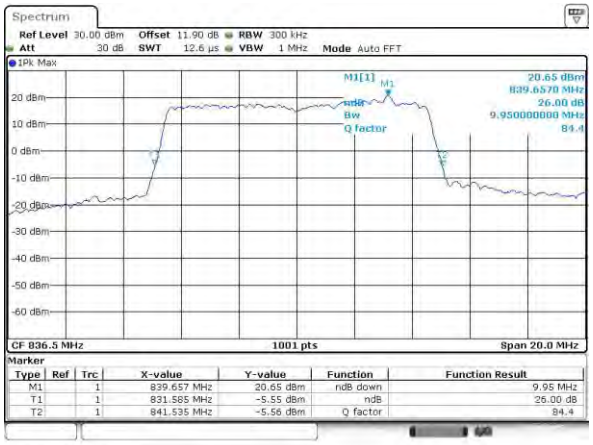
Lowest Channel / 10MHz / QPSK



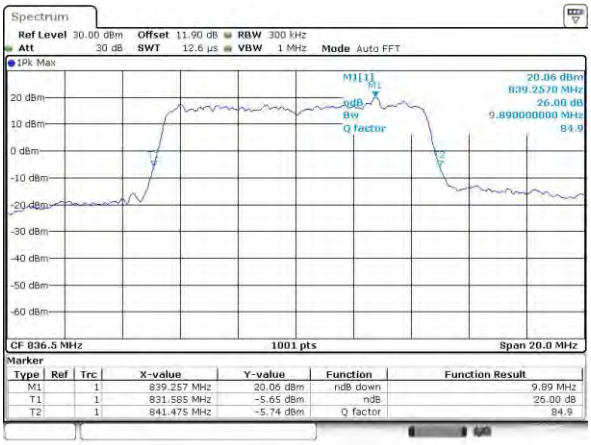
Lowest Channel / 10MHz / 16QAM



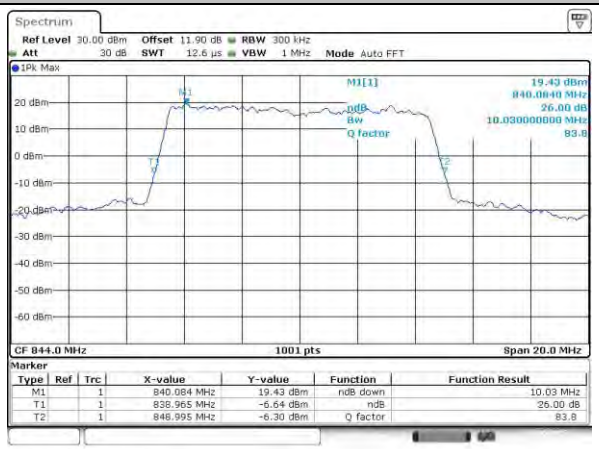
Middle Channel / 10MHz / QPSK



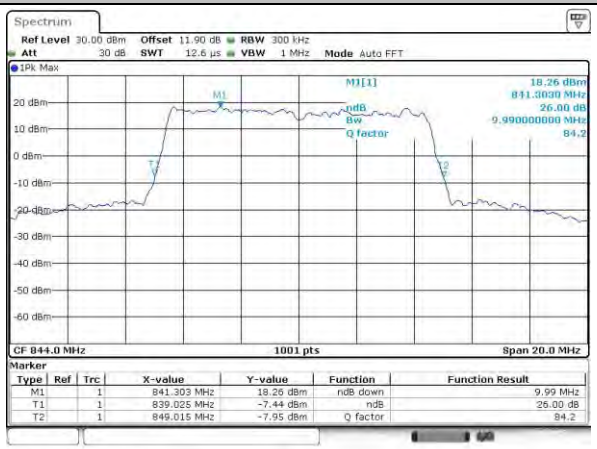
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

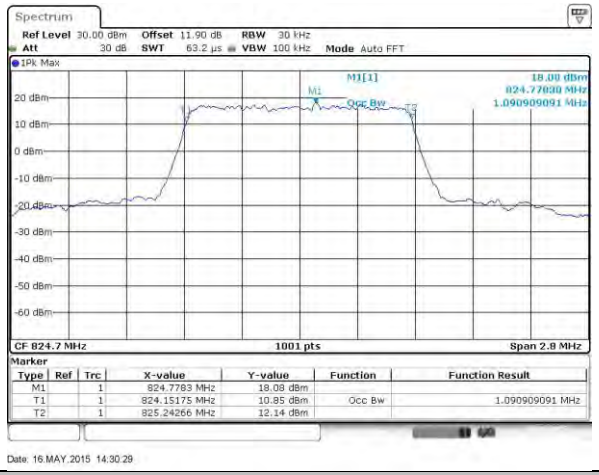


Occupied Bandwidth

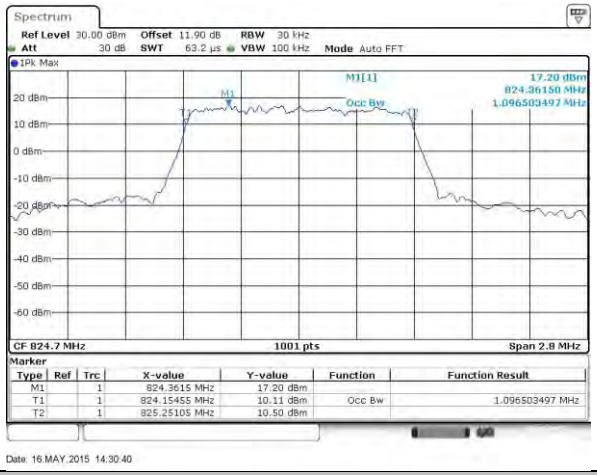
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.1	2.73	2.7	4.51	4.51	9.07	9.07	-	-	-	-
Middle CH	1.09	1.09	2.72	2.73	4.51	4.51	9.09	9.05	-	-	-	-
Highest CH	1.09	1.1	2.72	2.72	4.52	4.51	9.05	9.05	-	-	-	-

LTE Band 5

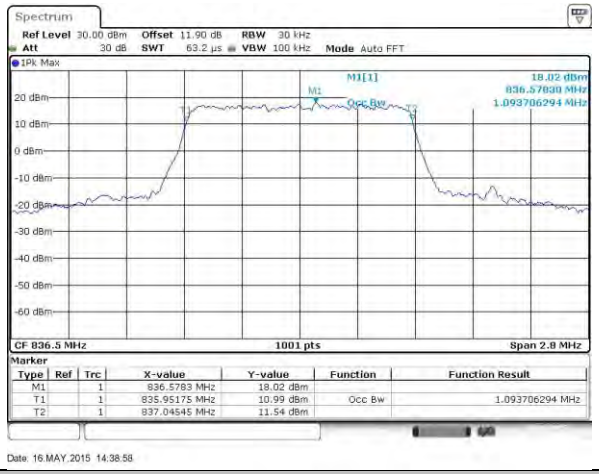
Lowest Channel / 1.4MHz / QPSK



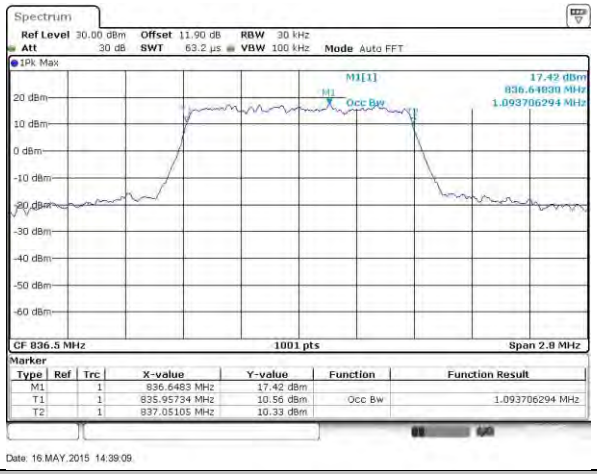
Lowest Channel / 1.4MHz / 16QAM



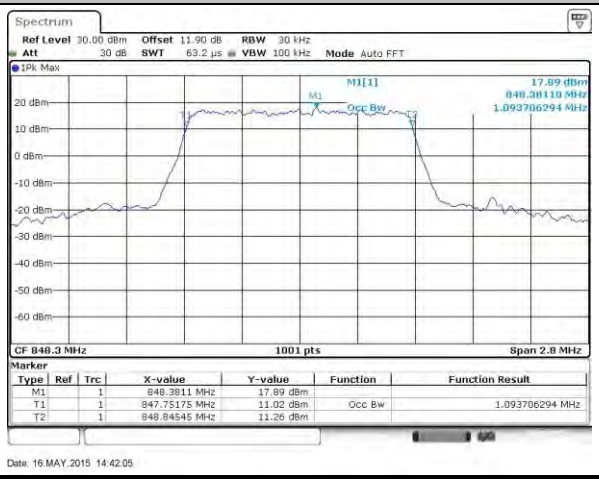
Middle Channel / 1.4MHz / QPSK



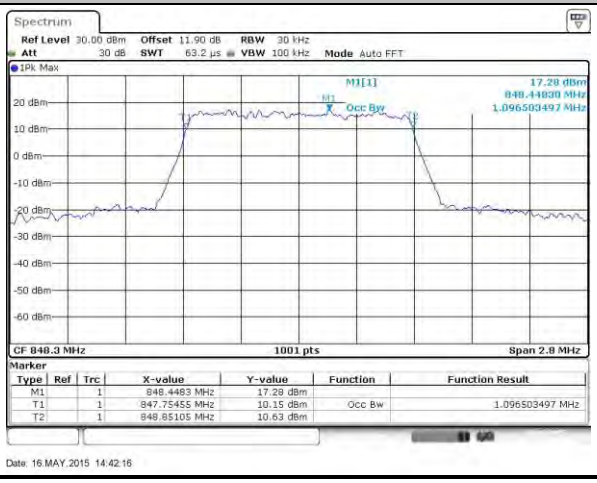
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

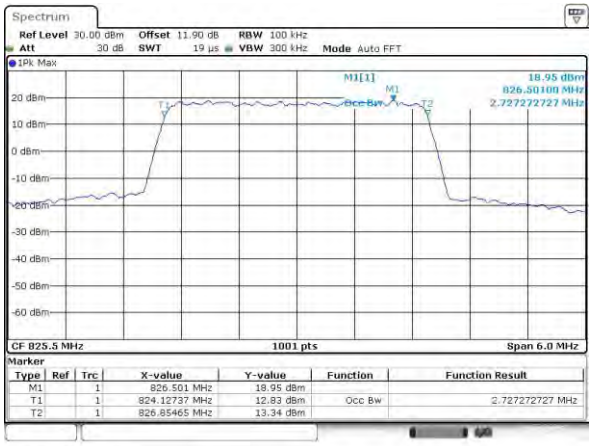


Highest Channel / 1.4MHz / 16QAM

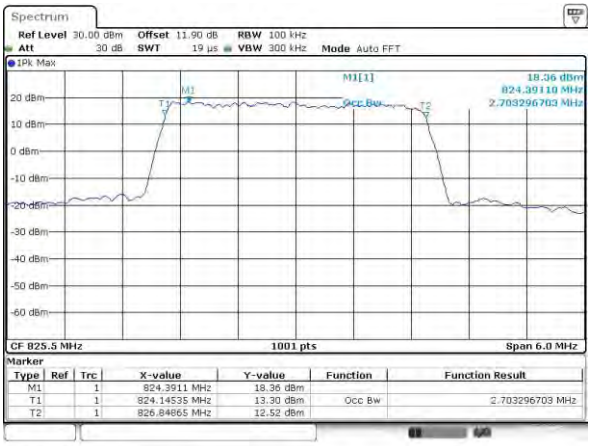


LTE Band 5

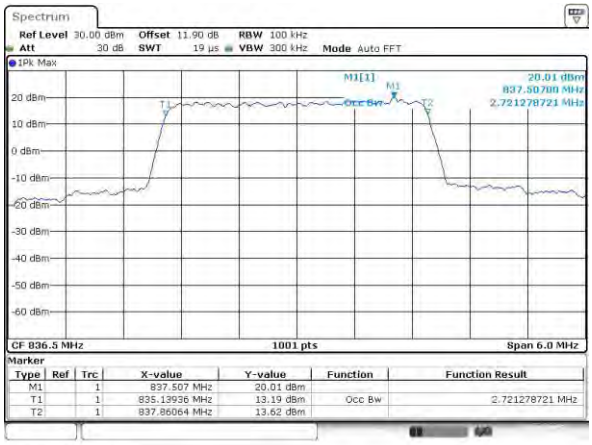
Lowest Channel / 3MHz / QPSK



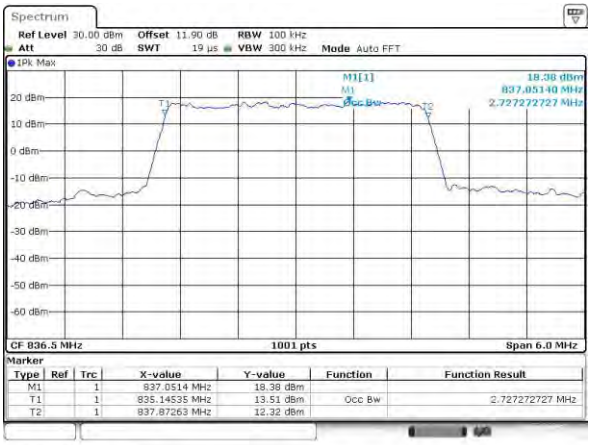
Lowest Channel / 3MHz / 16QAM



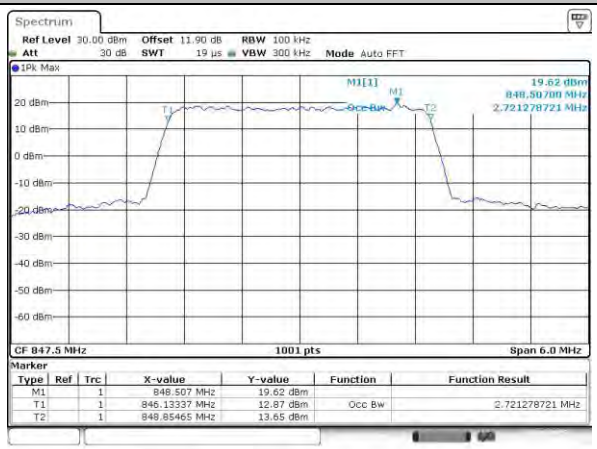
Middle Channel / 3MHz / QPSK



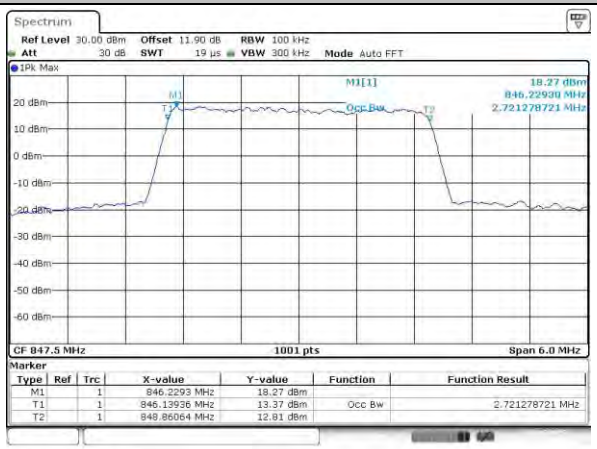
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

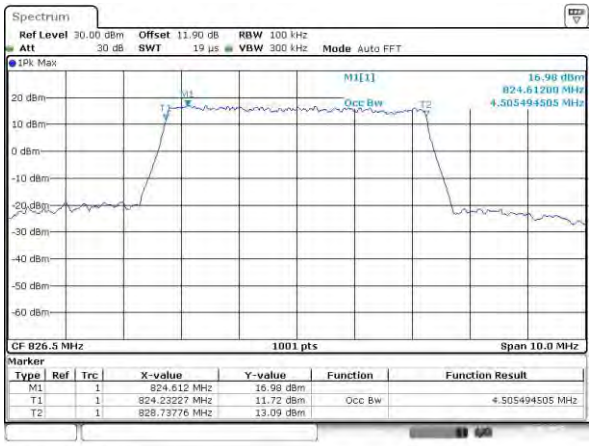


Highest Channel / 3MHz / 16QAM

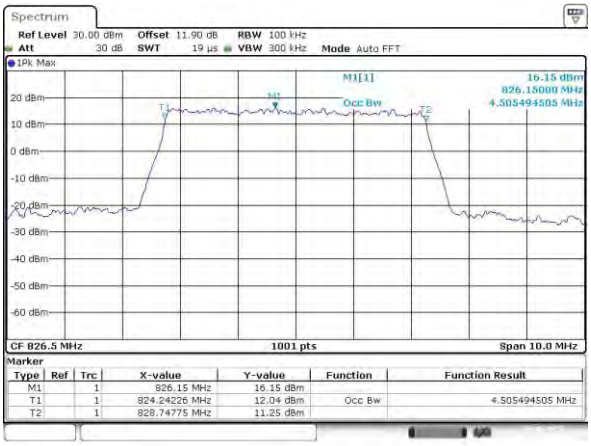


LTE Band 5

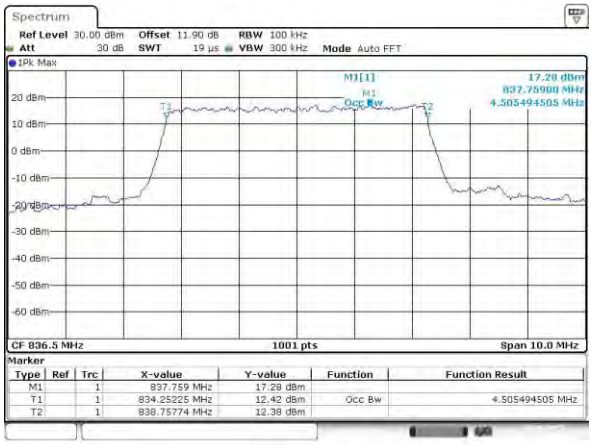
Lowest Channel / 5MHz / QPSK



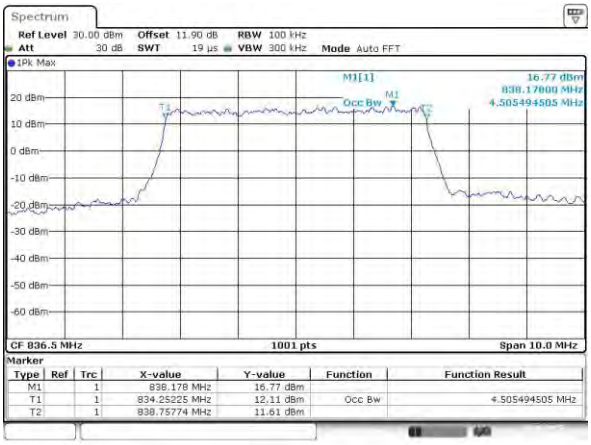
Lowest Channel / 5MHz / 16QAM



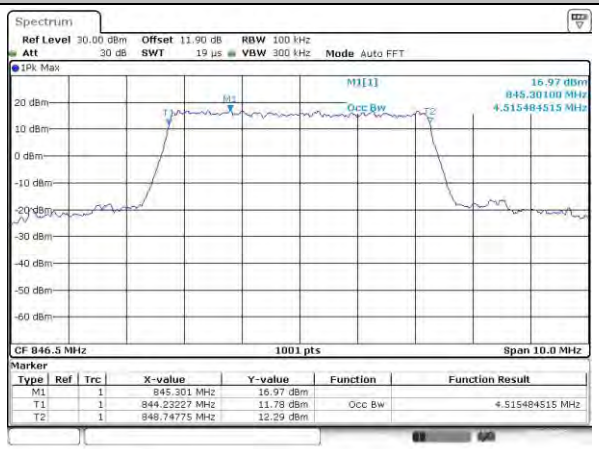
Middle Channel / 5MHz / QPSK



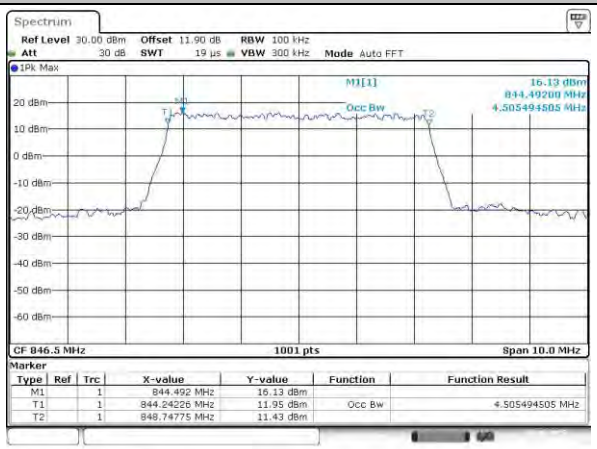
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

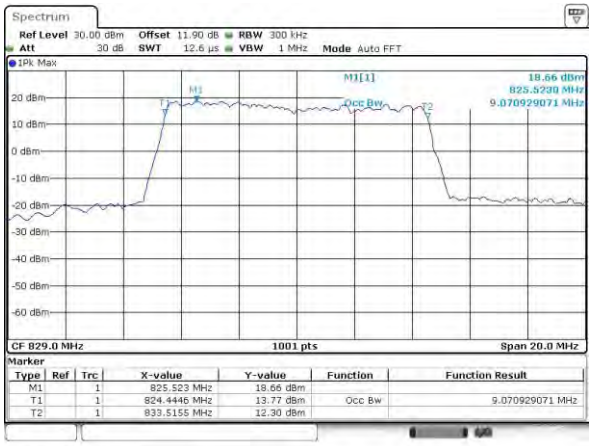


Highest Channel / 5MHz / 16QAM

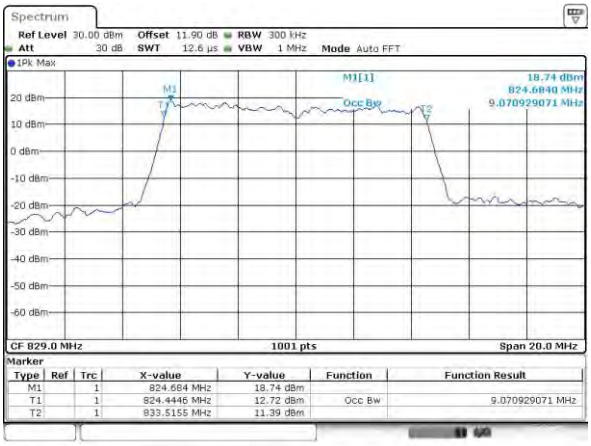


LTE Band 5

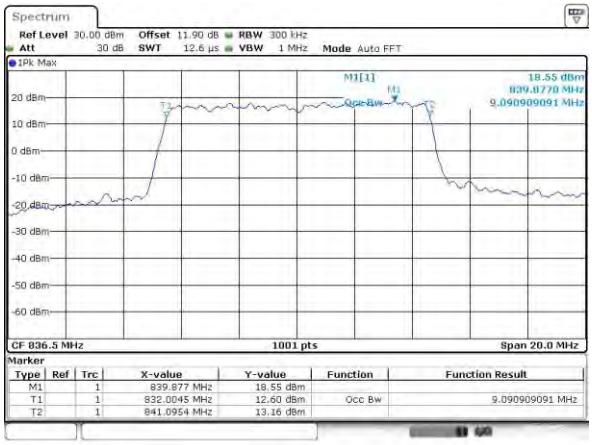
Lowest Channel / 10MHz / QPSK



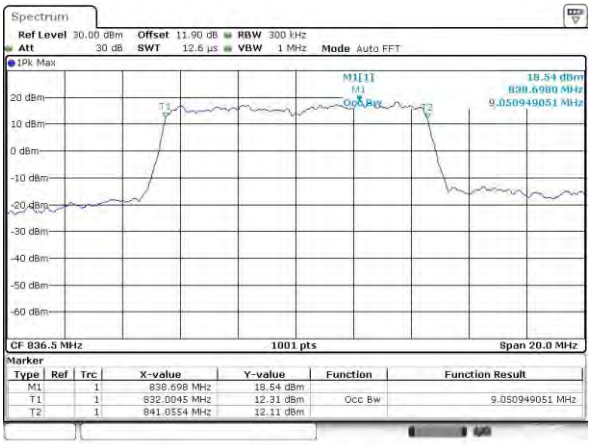
Lowest Channel / 10MHz / 16QAM



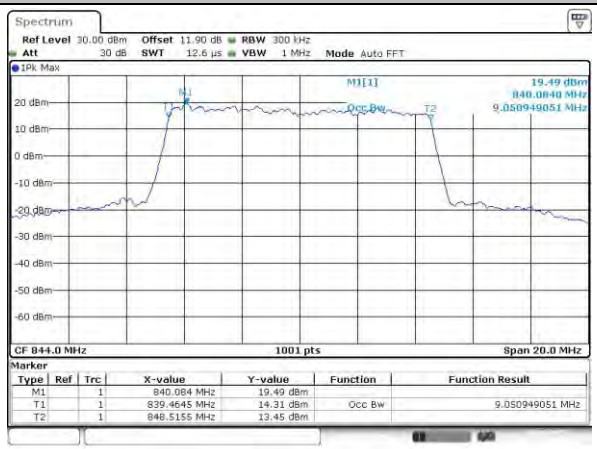
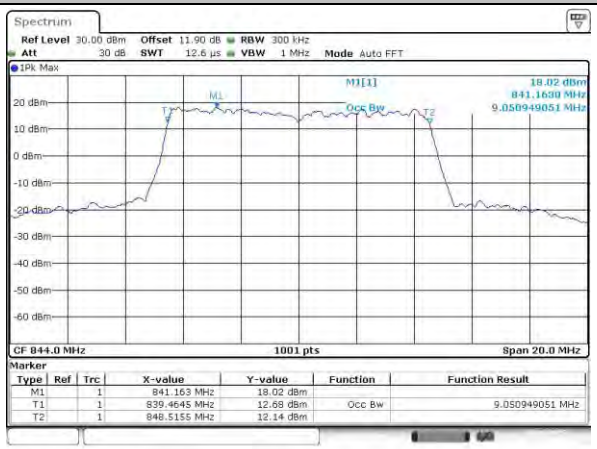
Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM