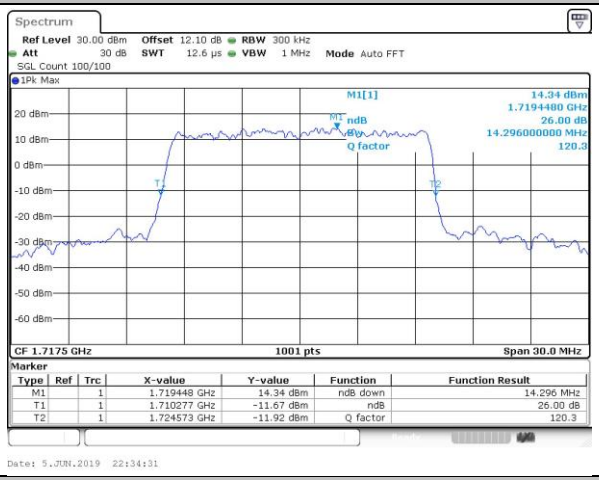
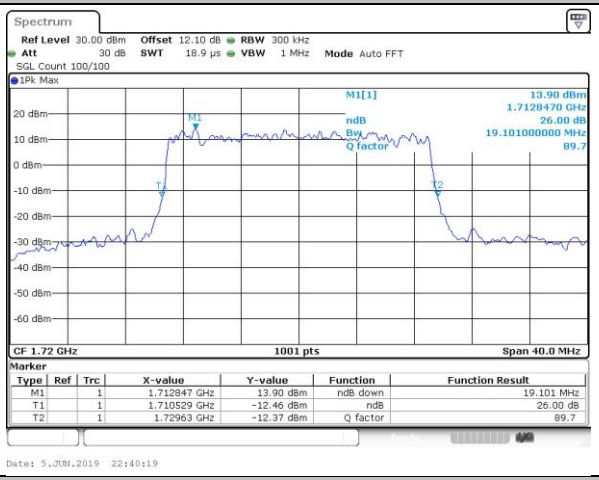
LTE Band 4

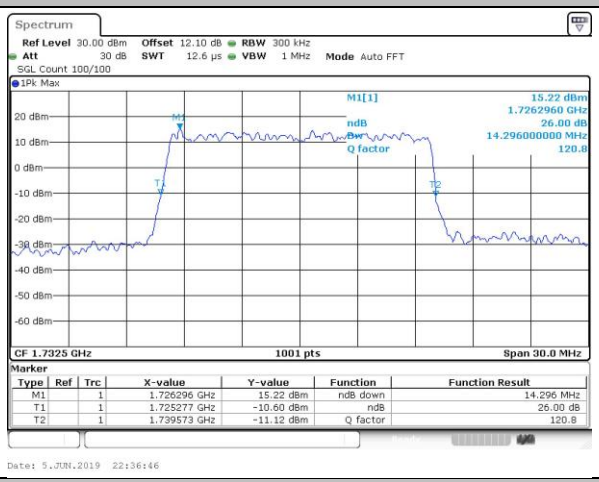
Lowest Channel / 15MHz / 64QAM



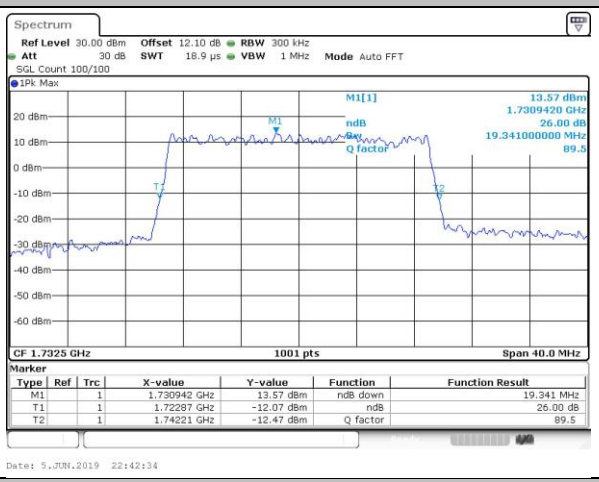
Lowest Channel / 20MHz / 64QAM



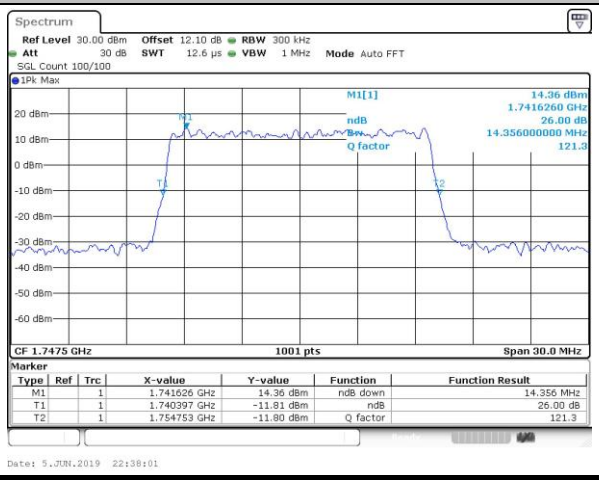
Middle Channel / 15MHz / 64QAM



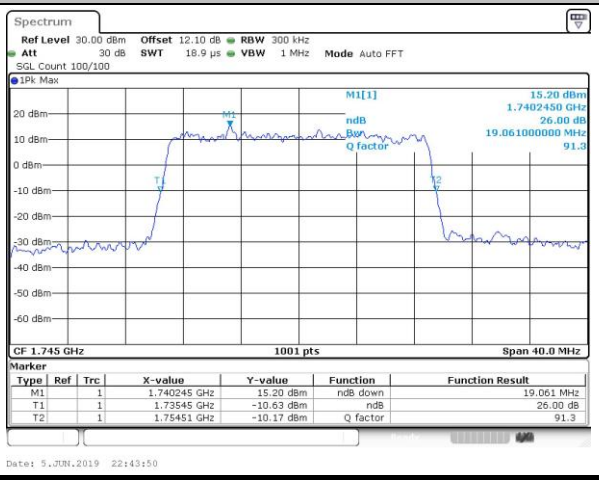
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

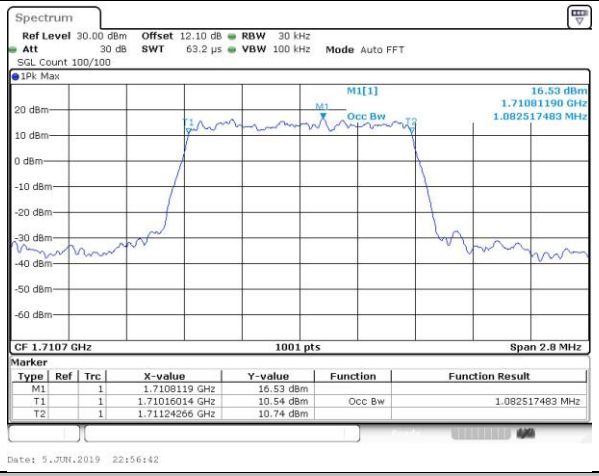


Occupied Bandwidth

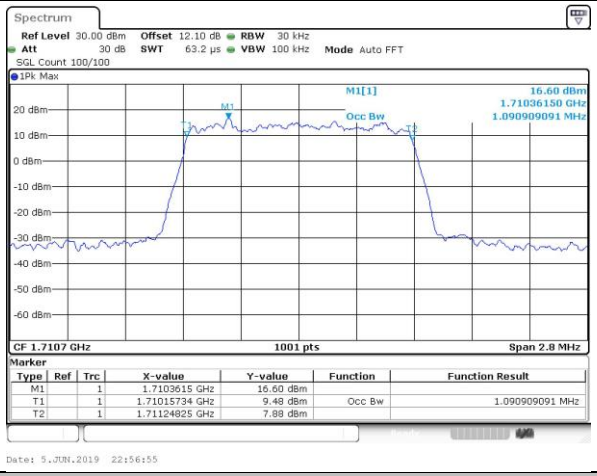
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.08	1.09	2.73	2.72	4.52	4.50	9.03	9.03	13.40	13.37	17.86	17.94
Middle CH	1.09	1.08	2.72	2.72	4.49	4.48	9.01	8.99	13.49	13.49	17.86	17.90
Highest CH	1.09	1.09	2.71	2.72	4.48	4.50	9.01	8.99	13.43	13.40	17.86	17.82
Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.08	-	2.73	-	4.52	-	9.01	-	13.46	-	17.78	-
Middle CH	1.08	-	2.73	-	4.48	-	9.03	-	13.43	-	17.90	-
Highest CH	1.09	-	2.71	-	4.50	-	9.05	-	13.46	-	17.82	-

LTE Band 4

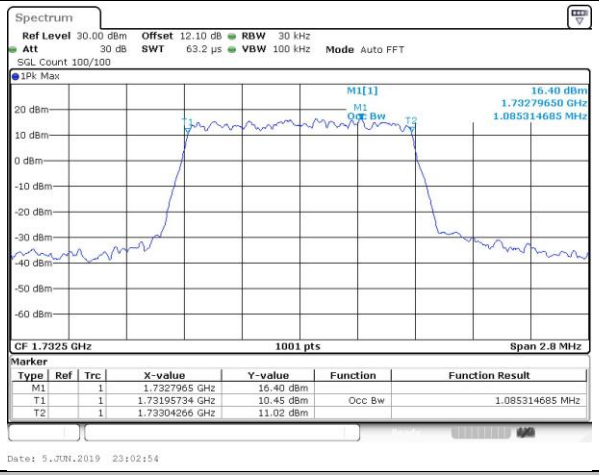
Lowest Channel / 1.4MHz / QPSK



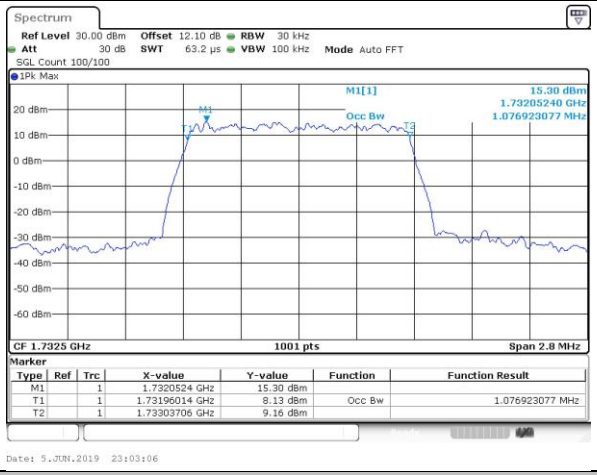
Lowest Channel / 1.4MHz / 16QAM



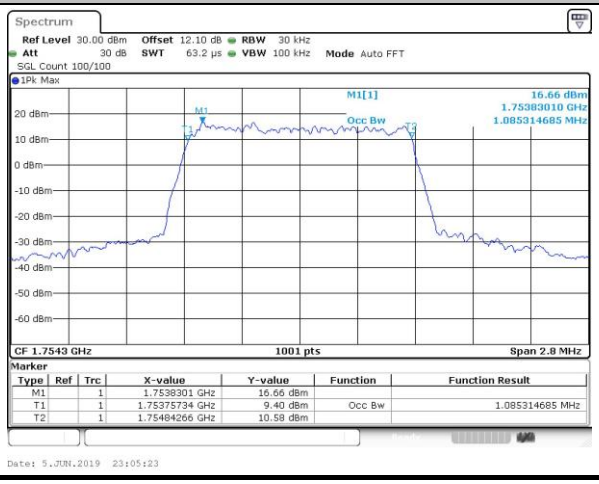
Middle Channel / 1.4MHz / QPSK



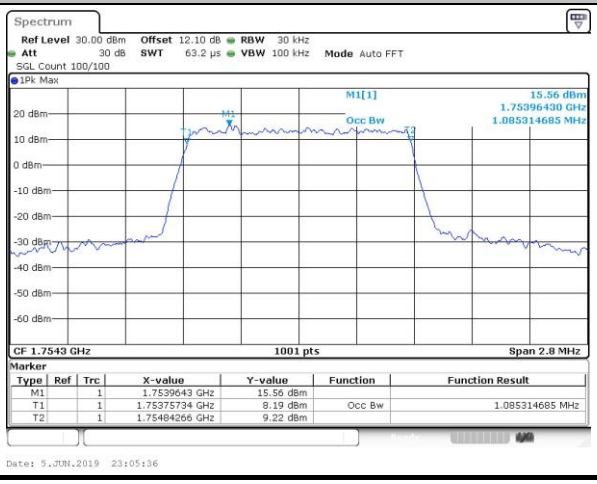
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

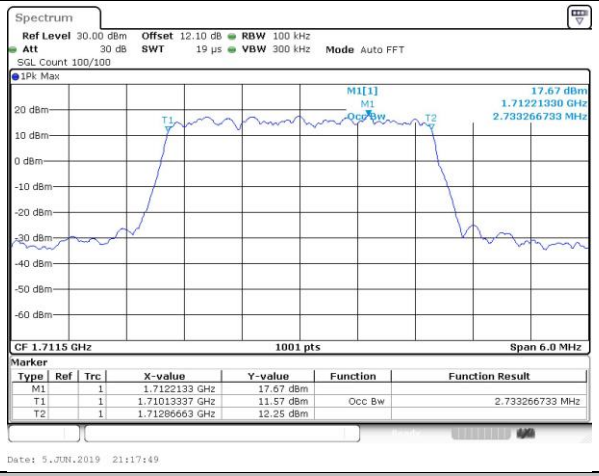


Highest Channel / 1.4MHz / 16QAM

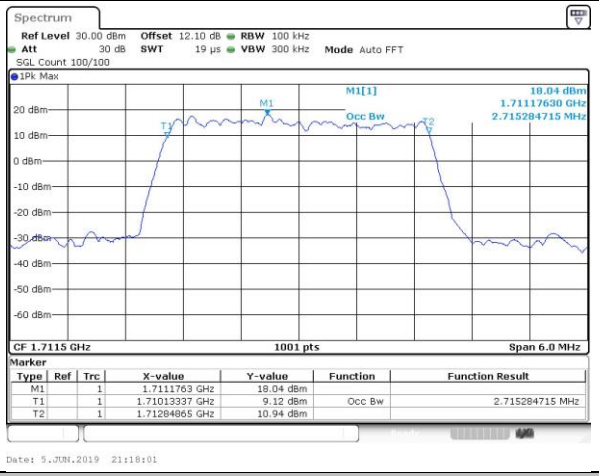


LTE Band 4

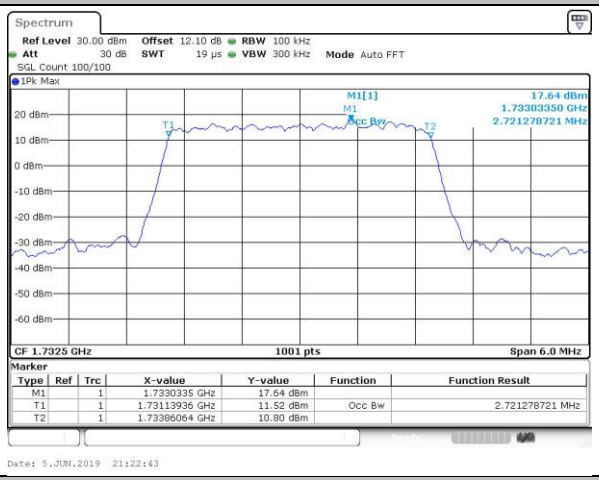
Lowest Channel / 3MHz / QPSK



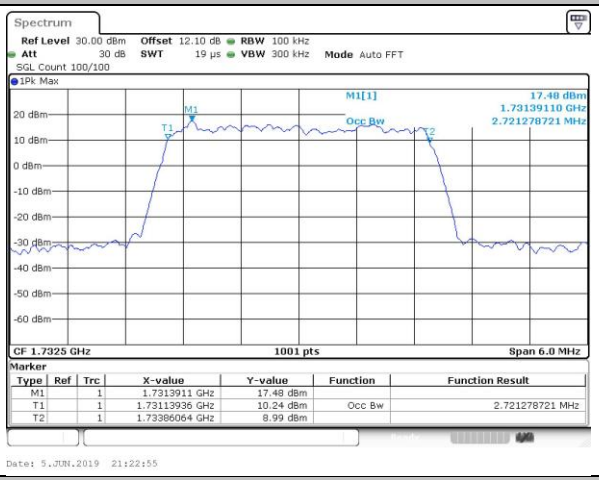
Lowest Channel / 3MHz / 16QAM



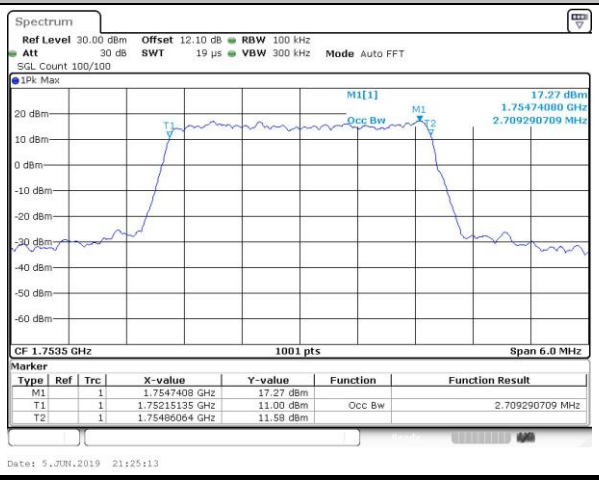
Middle Channel / 3MHz / QPSK



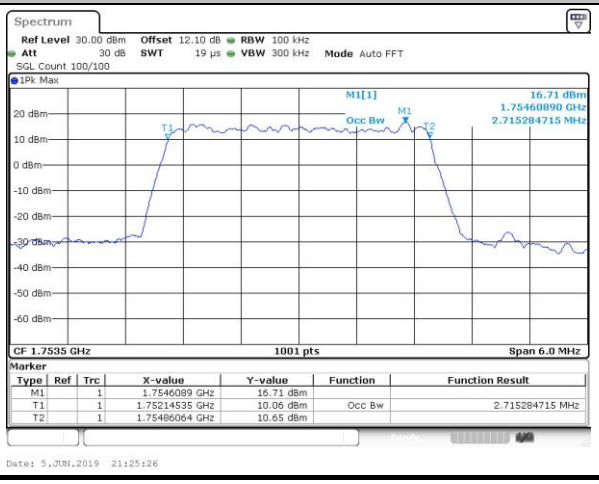
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

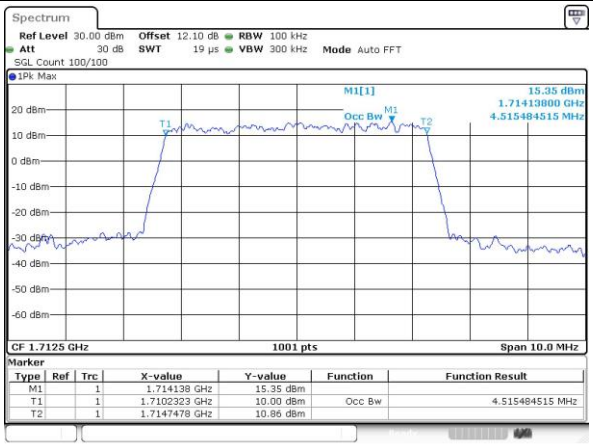


Highest Channel / 3MHz / 16QAM

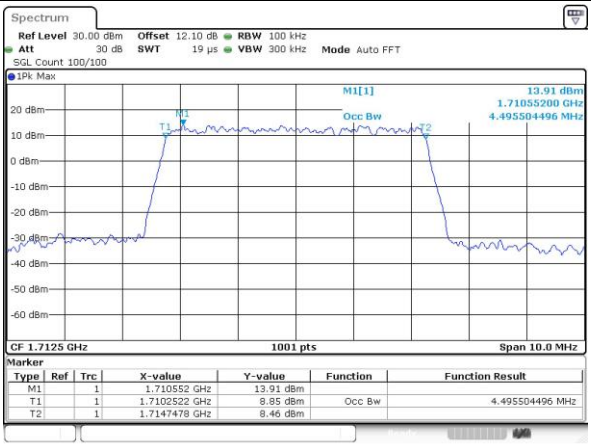


LTE Band 4

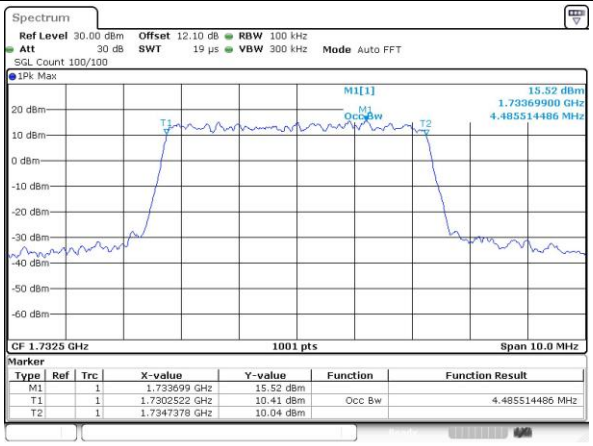
Lowest Channel / 5MHz / QPSK



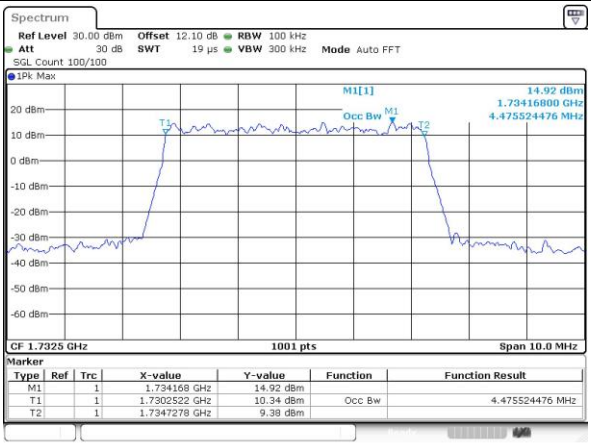
Lowest Channel / 5MHz / 16QAM



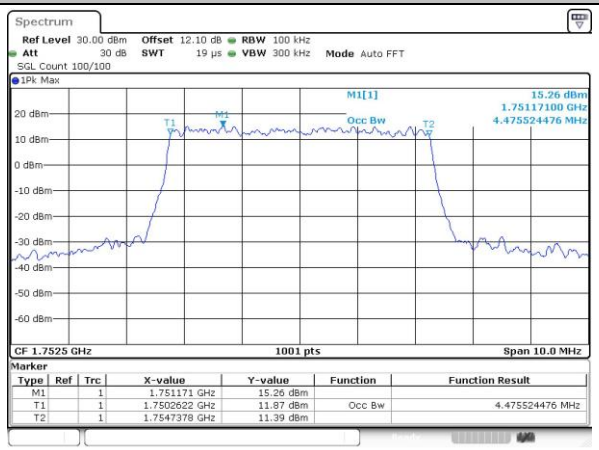
Middle Channel / 5MHz / QPSK



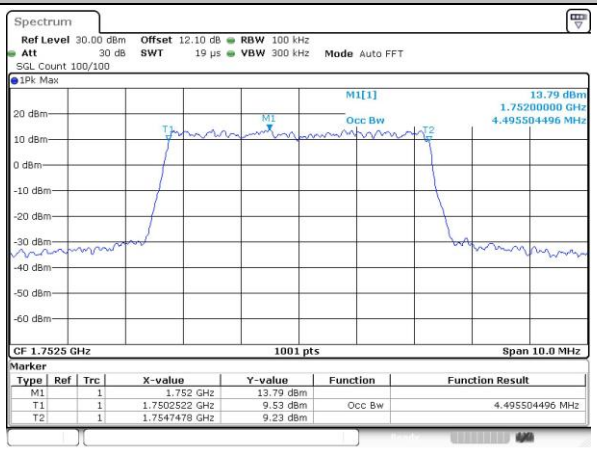
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

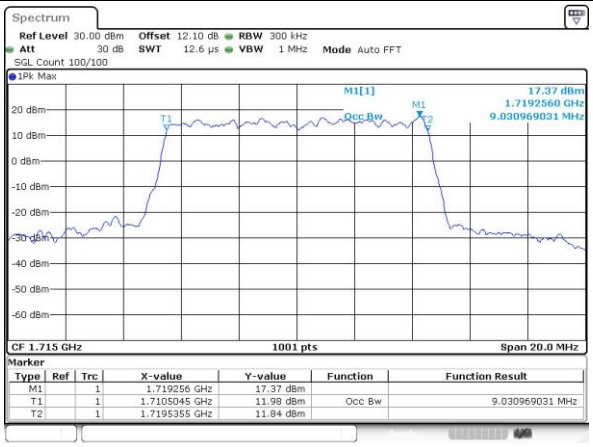


Highest Channel / 5MHz / 16QAM

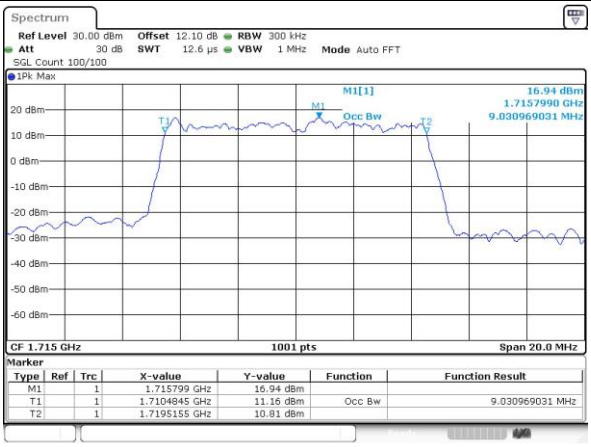


LTE Band 4

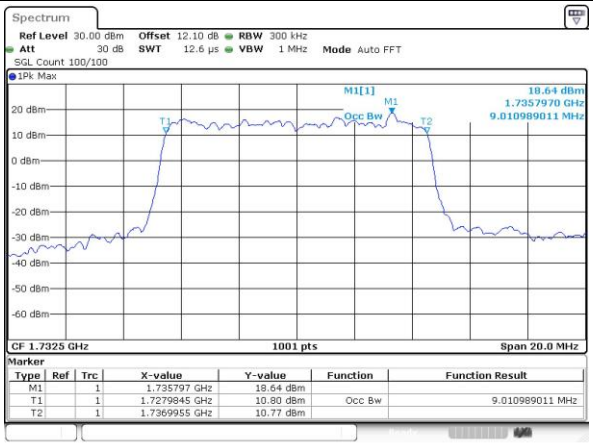
Lowest Channel / 10MHz / QPSK



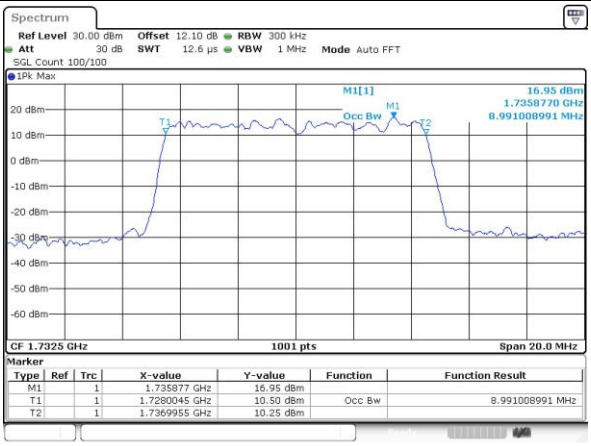
Lowest Channel / 10MHz / 16QAM



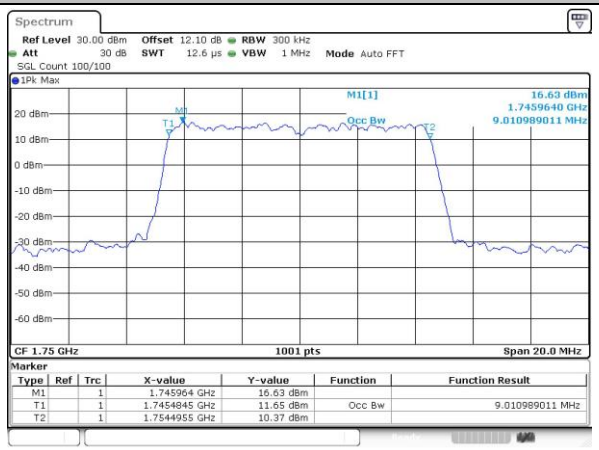
Middle Channel / 10MHz / QPSK



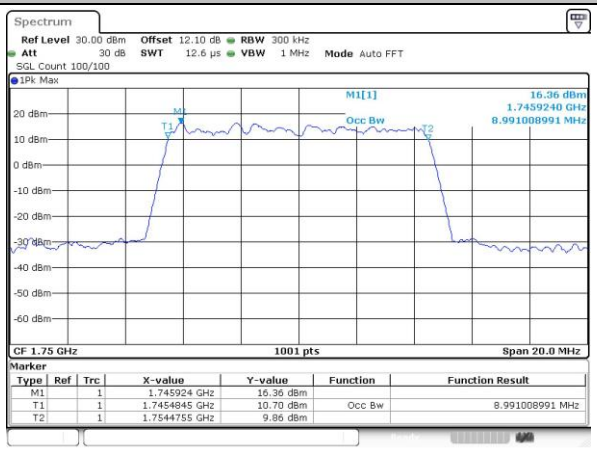
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

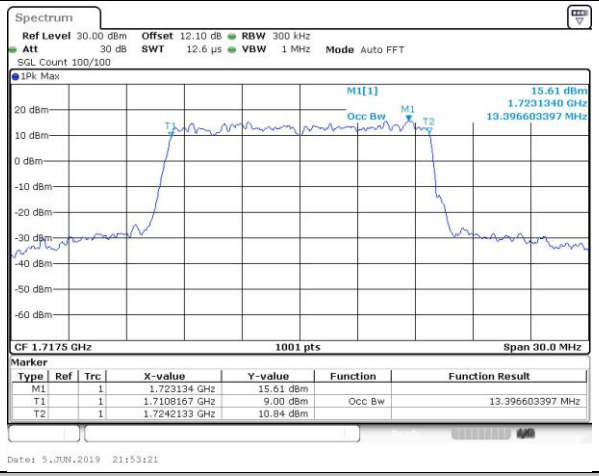


Highest Channel / 10MHz / 16QAM

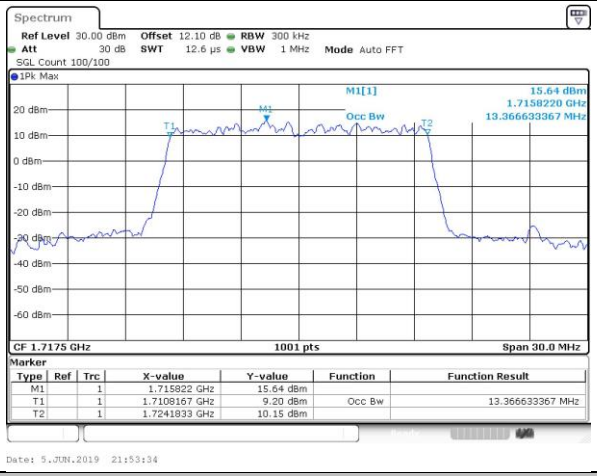


LTE Band 4

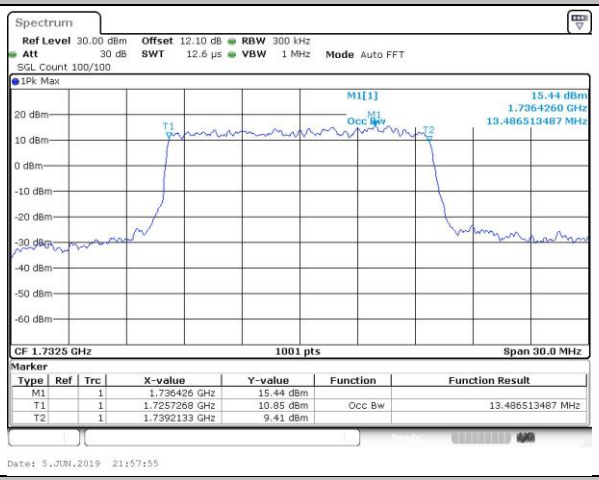
Lowest Channel / 15MHz / QPSK



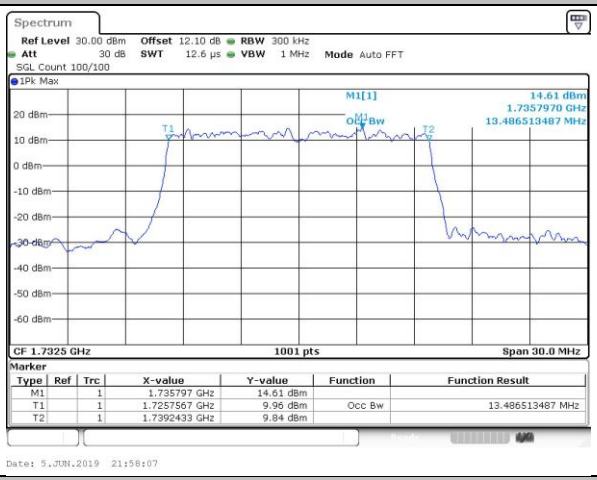
Lowest Channel / 15MHz / 16QAM



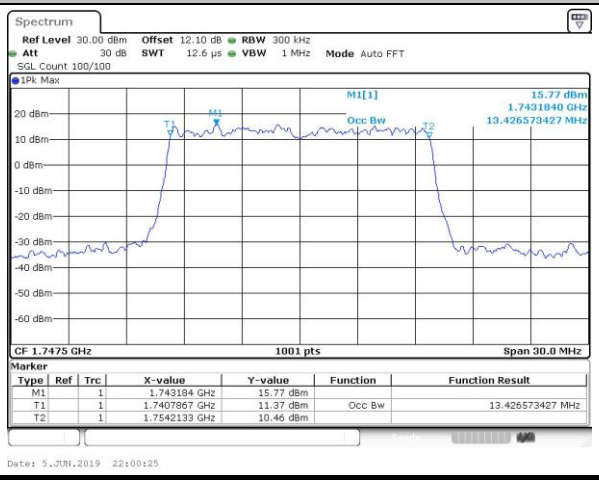
Middle Channel / 15MHz / QPSK



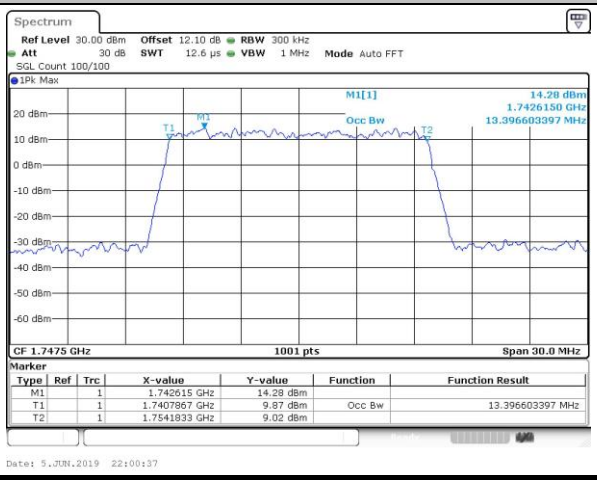
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

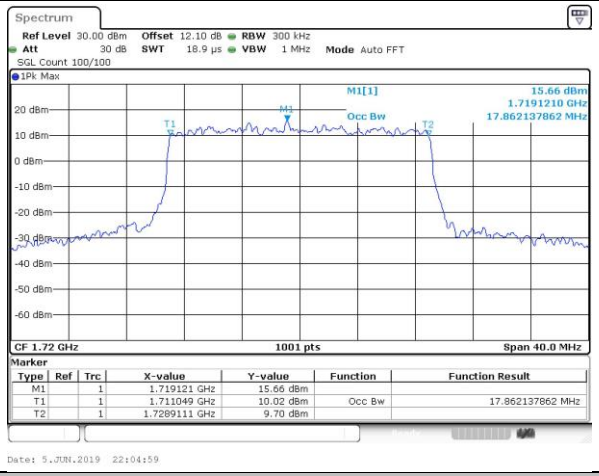


Highest Channel / 15MHz / 16QAM

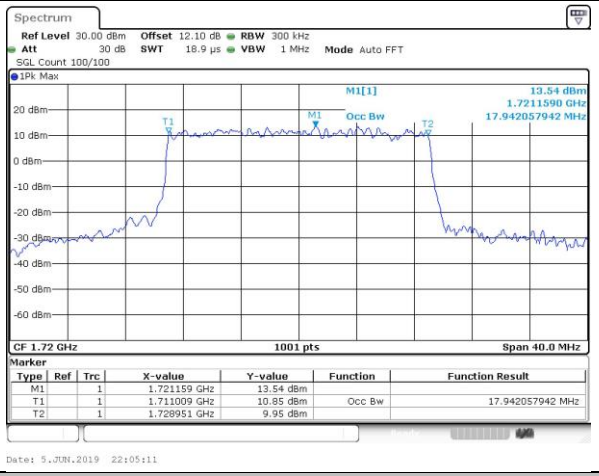


LTE Band 4

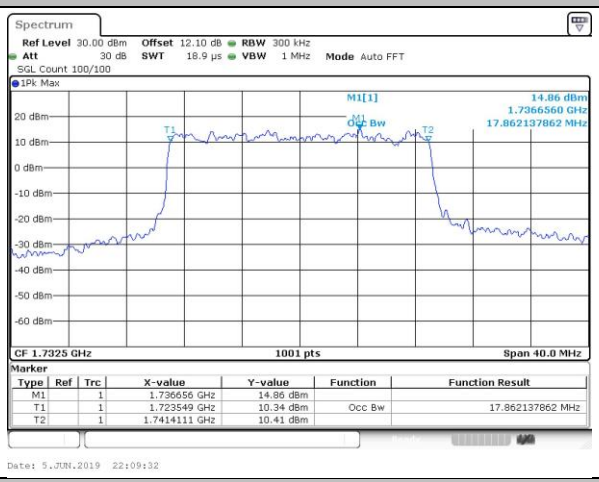
Lowest Channel / 20MHz / QPSK



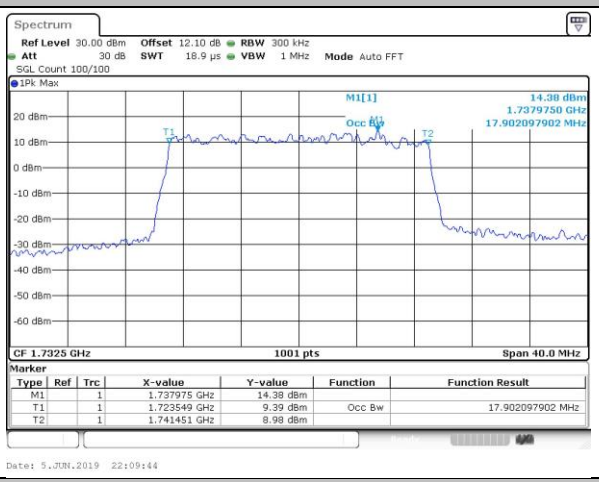
Lowest Channel / 20MHz / 16QAM



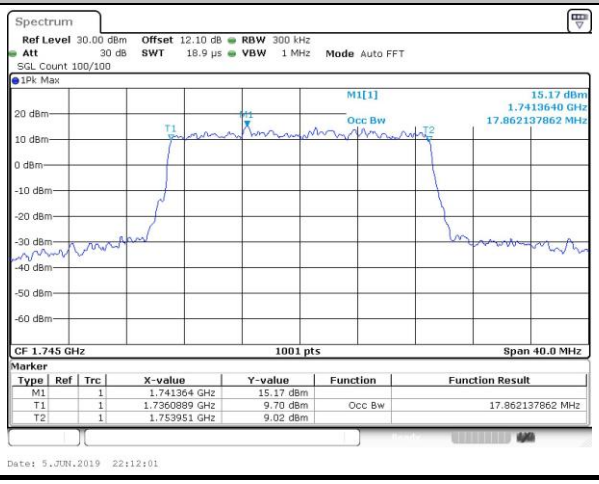
Middle Channel / 20MHz / QPSK



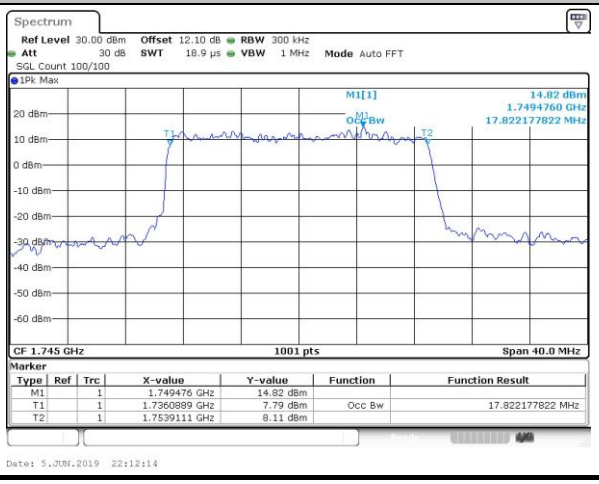
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

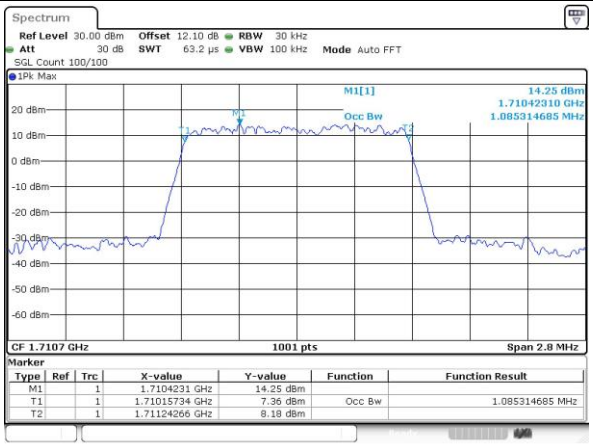


Highest Channel / 20MHz / 16QAM

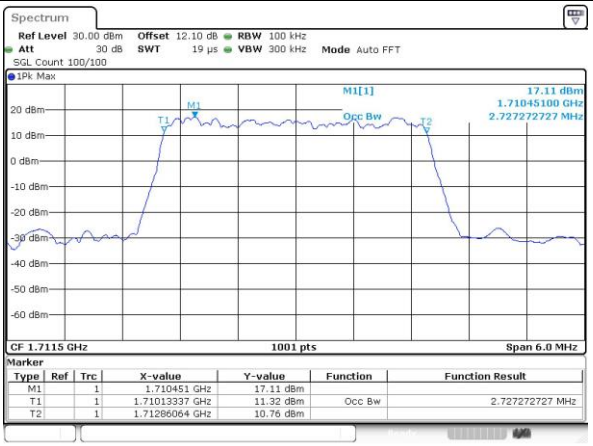


LTE Band 4

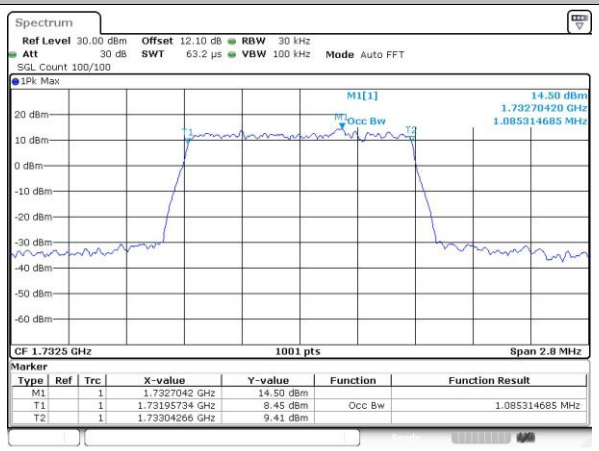
Lowest Channel / 1.4MHz / 64QAM



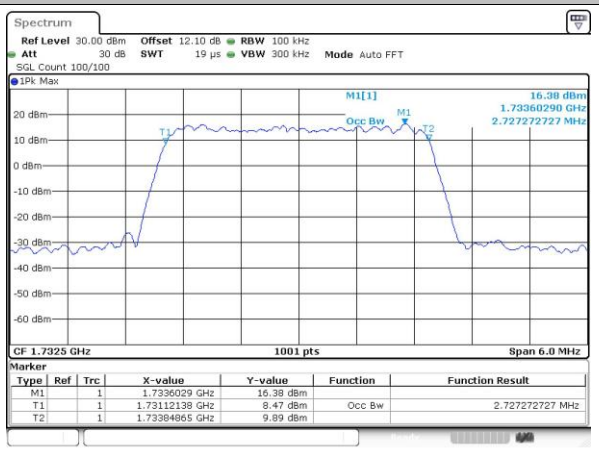
Lowest Channel / 3MHz / 64QAM



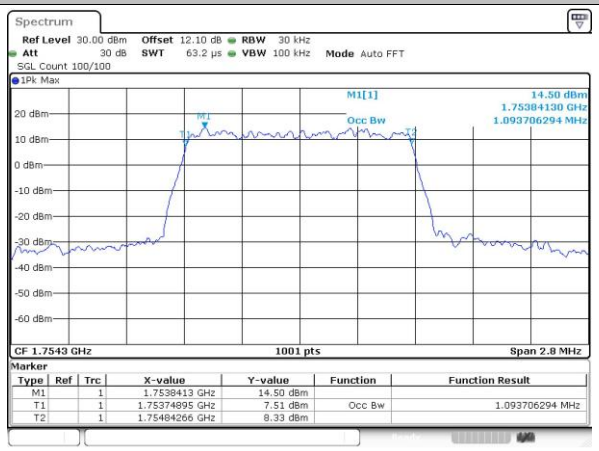
Middle Channel / 1.4MHz / 64QAM



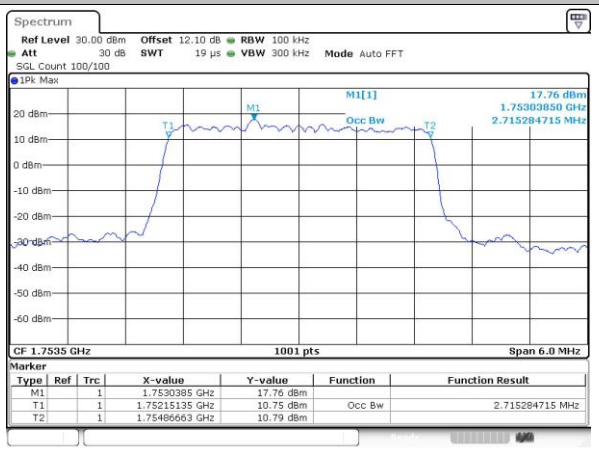
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM

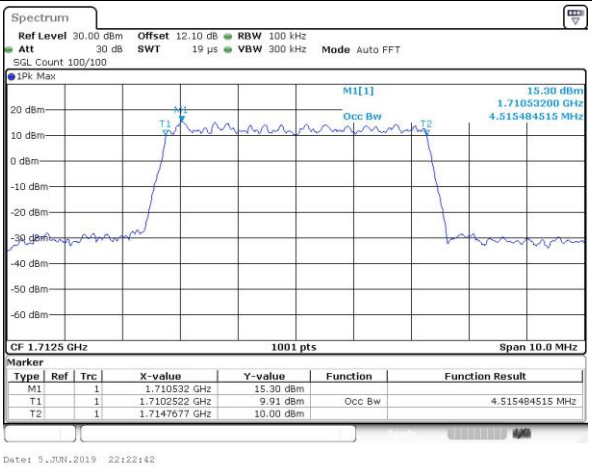


Highest Channel / 3MHz / 64QAM

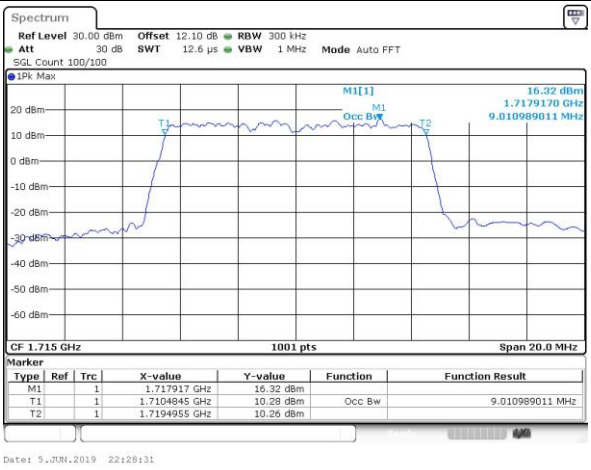


LTE Band 4

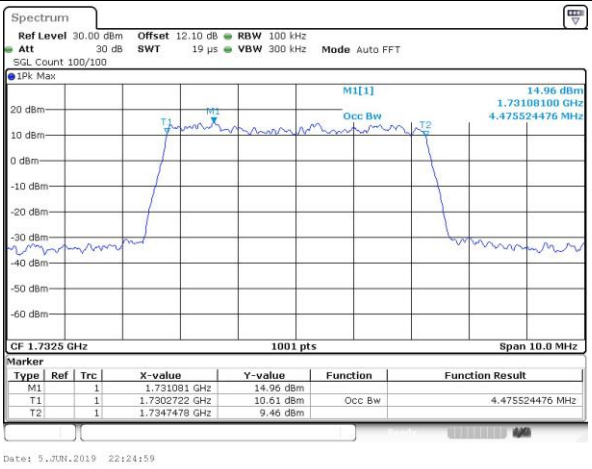
Lowest Channel / 5MHz / 64QAM



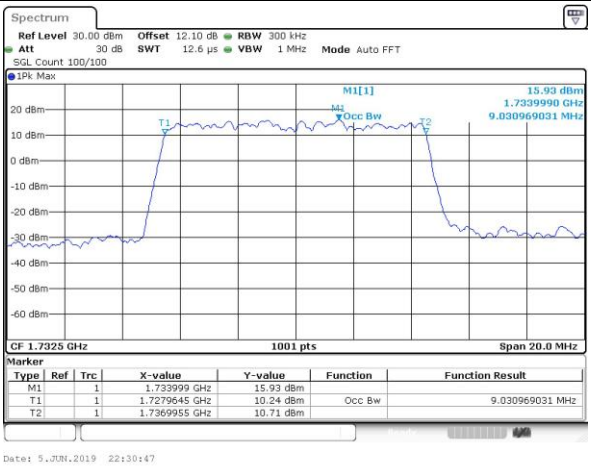
Lowest Channel / 10MHz / 64QAM



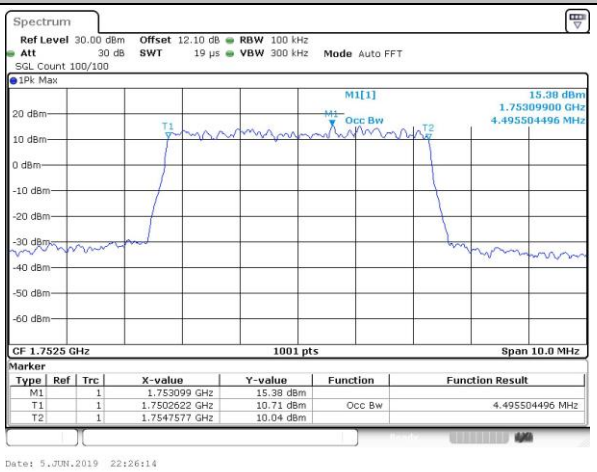
Middle Channel / 5MHz / 64QAM



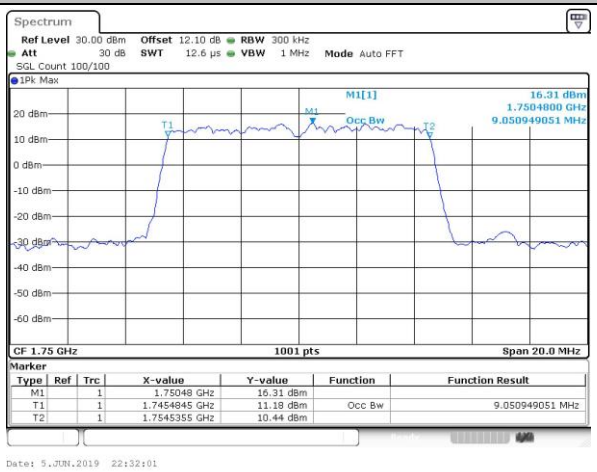
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

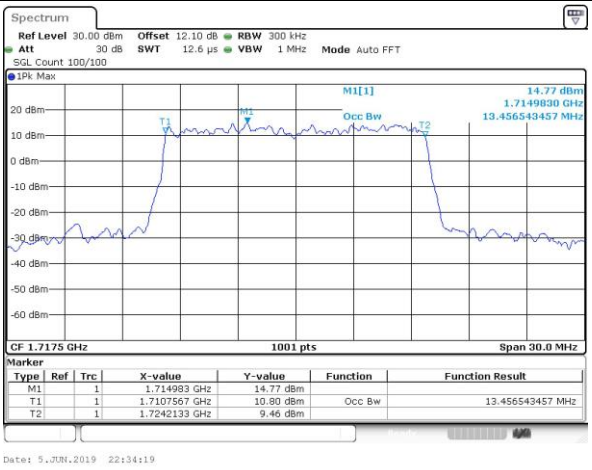


Highest Channel / 10MHz / 64QAM

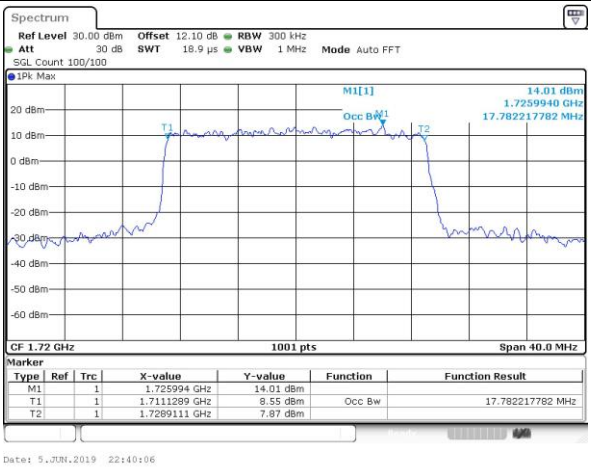


LTE Band 4

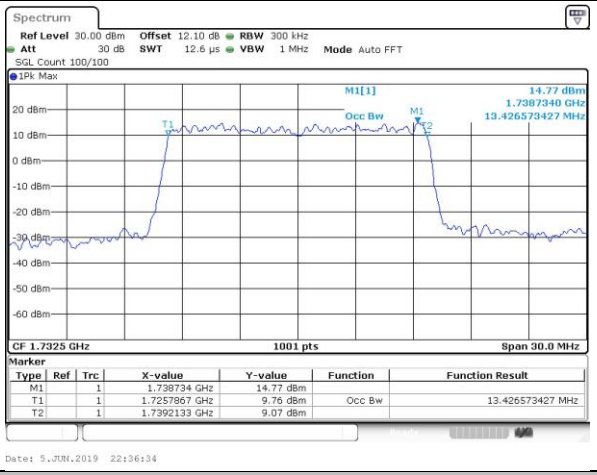
Lowest Channel / 15MHz / 64QAM



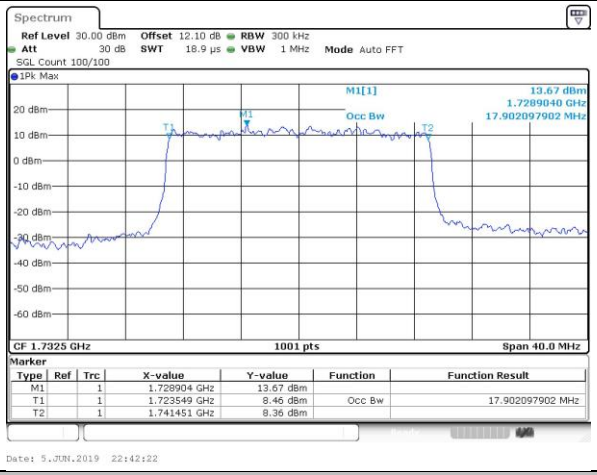
Lowest Channel / 20MHz / 64QAM



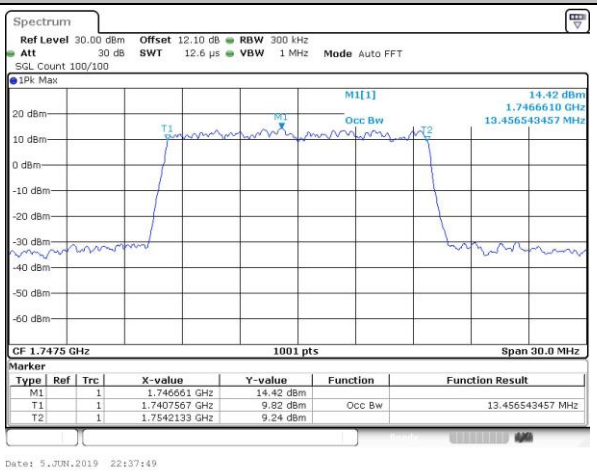
Middle Channel / 15MHz / 64QAM



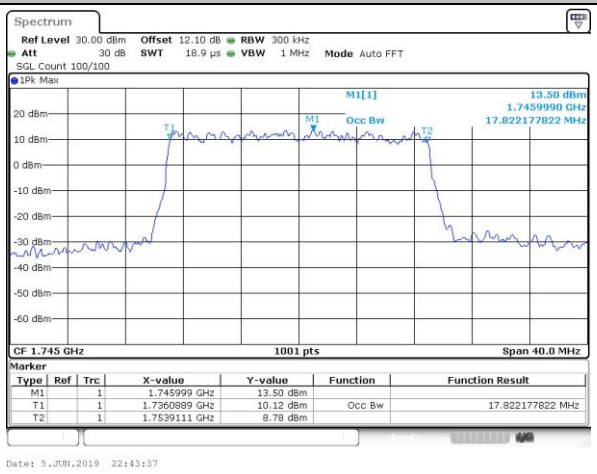
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



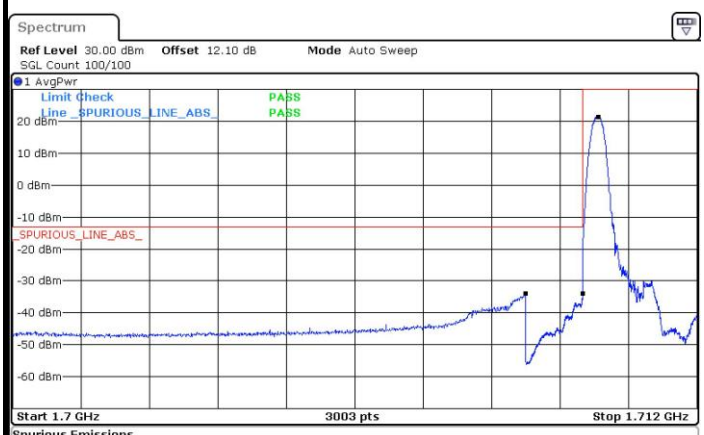
Highest Channel / 20MHz / 64QAM



Conducted Band Edge

LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

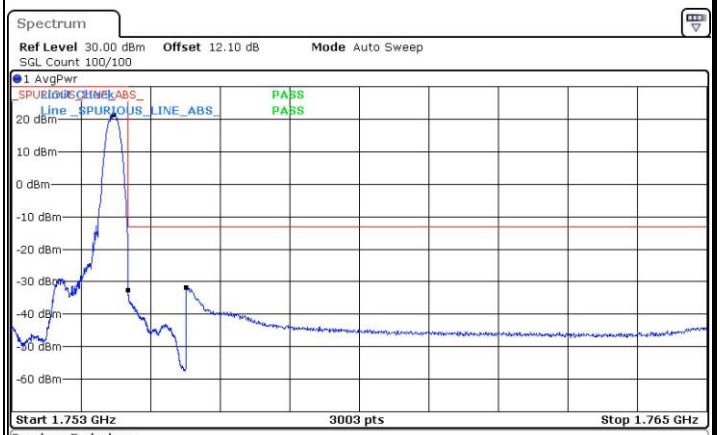


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70900 GHz	-33.96 dBm	-20.96 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.71000 GHz	-33.88 dBm	-20.88 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71027 GHz	21.45 dBm	-8.55 dB

Date: 5.JUN.2019 23:29:38

Highest Band Edge / 1RB

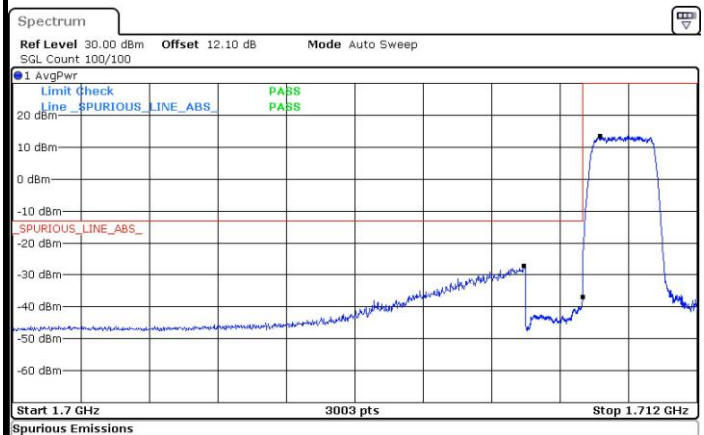


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75477 GHz	21.41 dBm	-8.59 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75500 GHz	-32.52 dBm	-19.52 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75601 GHz	-31.90 dBm	-18.90 dB

Date: 5.JUN.2019 23:33:54

Lowest Band Edge / Full RB

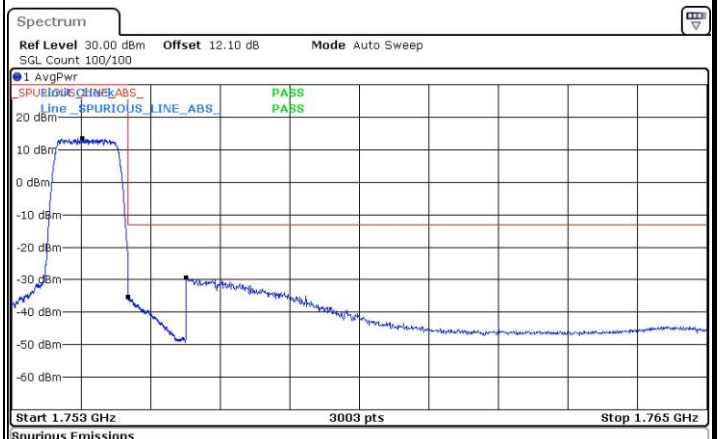


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70896 GHz	-27.28 dBm	-14.28 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.71000 GHz	-36.83 dBm	-23.83 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71030 GHz	13.49 dBm	-16.51 dB

Date: 5.JUN.2019 23:31:46

Highest Band Edge / Full RB



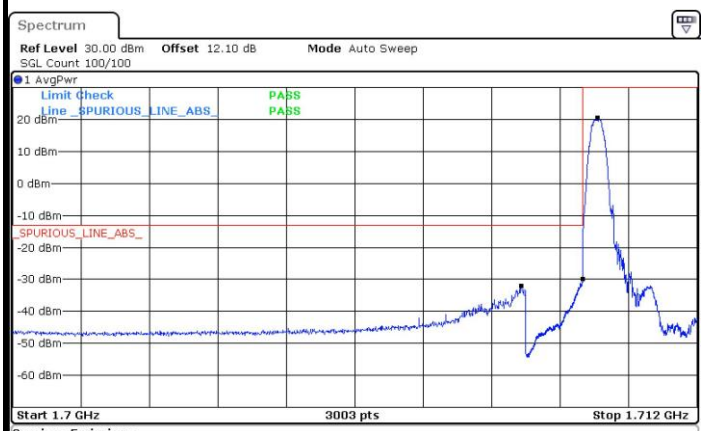
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75422 GHz	13.56 dBm	-16.44 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75500 GHz	-35.39 dBm	-22.39 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75600 GHz	-29.44 dBm	-16.44 dB

Date: 5.JUN.2019 23:36:02

LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

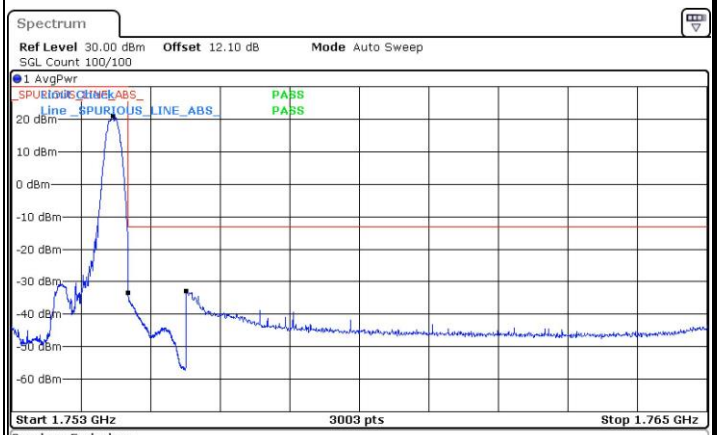


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70891 GHz	-32.02 dBm	-19.02 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.71000 GHz	-30.00 dBm	-17.00 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71025 GHz	20.53 dBm	-9.47 dB

Date: 5.JUN.2019 23:30:42

Highest Band Edge / 1 RB

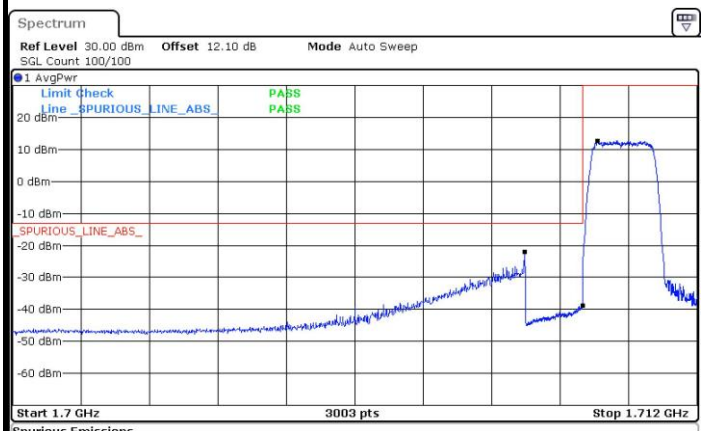


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75476 GHz	20.97 dBm	-9.03 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75500 GHz	-33.48 dBm	-20.48 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75600 GHz	-32.75 dBm	-19.75 dB

Date: 5.JUN.2019 23:34:58

Lowest Band Edge / Full RB

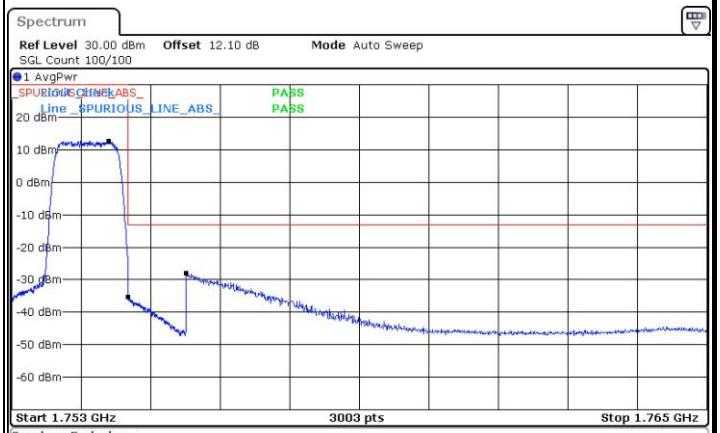


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70898 GHz	-21.98 dBm	-8.98 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.71000 GHz	-38.83 dBm	-25.83 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71025 GHz	12.73 dBm	-17.27 dB

Date: 5.JUN.2019 23:32:50

Highest Band Edge / Full RB



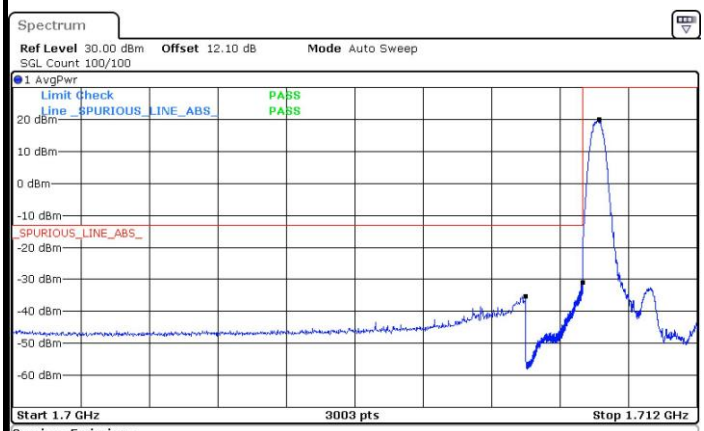
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75468 GHz	12.64 dBm	-17.36 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75500 GHz	-35.27 dBm	-22.27 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75601 GHz	-28.00 dBm	-15.00 dB

Date: 5.JUN.2019 23:37:06

LTE Band 4 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

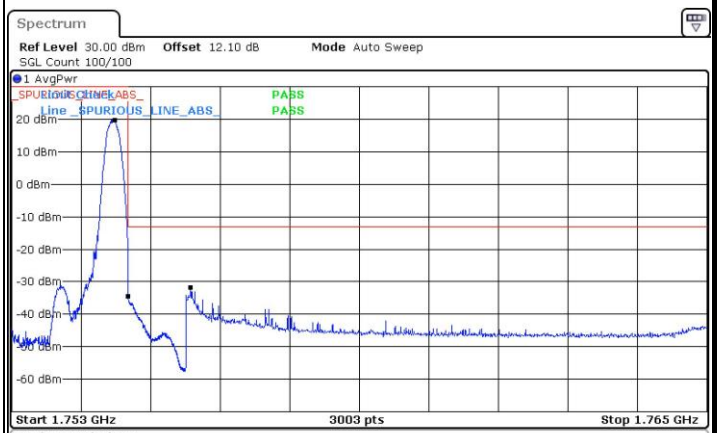


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70900 GHz	-35.38 dBm	-22.38 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.71000 GHz	-30.98 dBm	-17.98 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71027 GHz	19.86 dBm	-10.14 dB

Date: 5.JUN.2019 23:25:22

Highest Band Edge / 1 RB

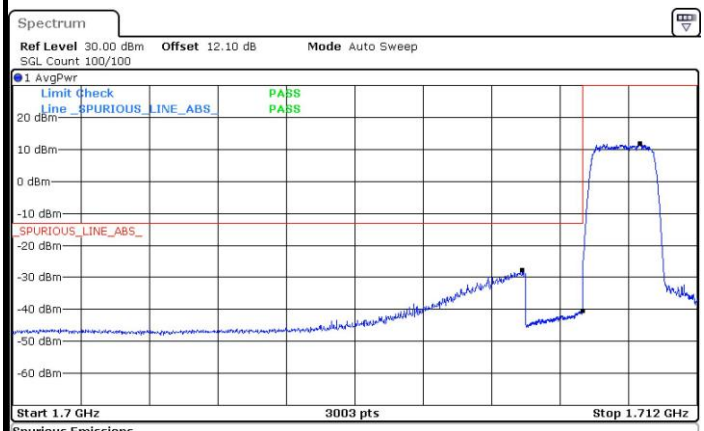


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75478 GHz	19.61 dBm	-10.39 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75500 GHz	-34.40 dBm	-21.40 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75609 GHz	-31.86 dBm	-18.86 dB

Date: 5.JUN.2019 23:27:30

Lowest Band Edge / Full RB

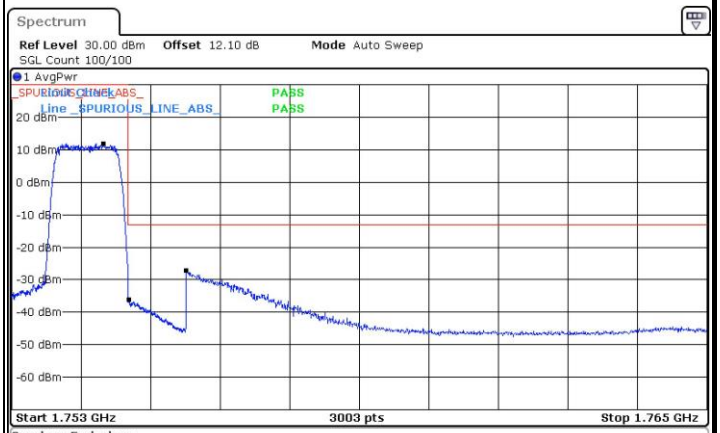


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70892 GHz	-27.81 dBm	-14.81 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.70999 GHz	-40.33 dBm	-27.33 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71100 GHz	11.97 dBm	-18.03 dB

Date: 5.JUN.2019 23:26:26

Highest Band Edge / Full RB



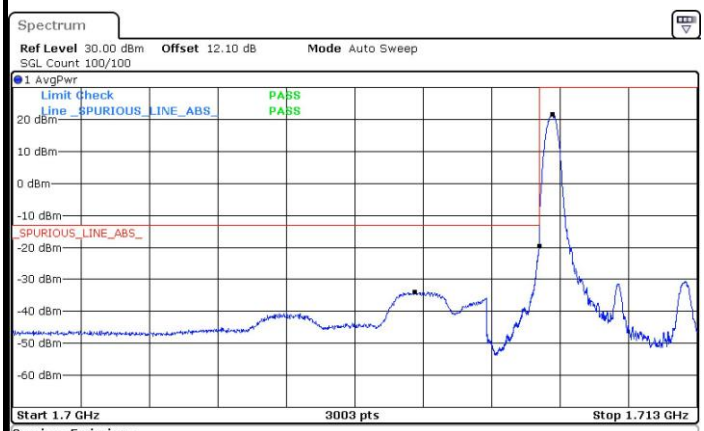
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75458 GHz	11.79 dBm	-18.21 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75502 GHz	-36.19 dBm	-23.19 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75601 GHz	-27.18 dBm	-14.18 dB

Date: 5.JUN.2019 23:28:34

LTE Band 4 / 3MHz / QPSK

Lowest Band Edge / 1RB

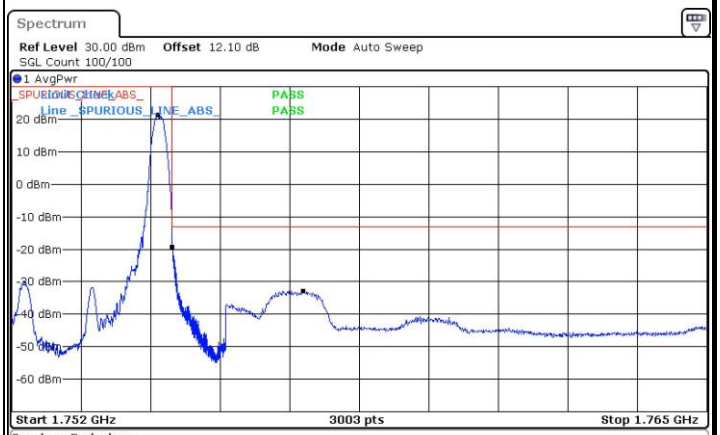


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70764 GHz	-33.98 dBm	-20.98 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-19.61 dBm	-6.61 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71024 GHz	21.52 dBm	-8.48 dB

Date: 5.JUN.2019 21:19:03

Highest Band Edge / 1 RB

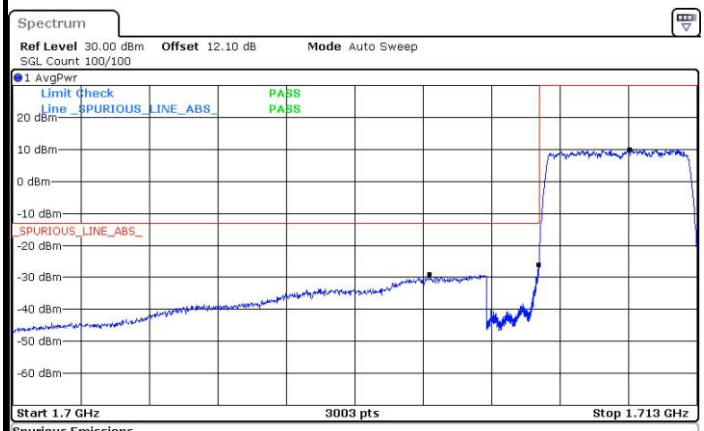


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75473 GHz	21.46 dBm	-8.54 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-19.22 dBm	-6.22 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75745 GHz	-32.79 dBm	-19.79 dB

Date: 5.JUN.2019 21:26:26

Lowest Band Edge / Full RB

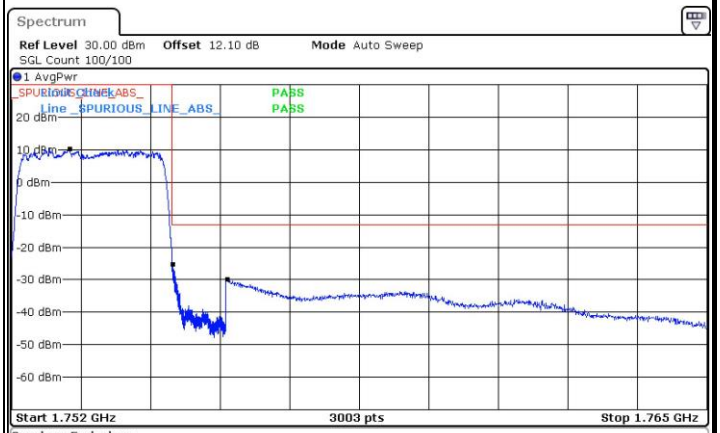


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70792 GHz	-29.03 dBm	-16.03 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.70999 GHz	-26.03 dBm	-13.03 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71171 GHz	10.03 dBm	-19.97 dB

Date: 5.JUN.2019 21:20:13

Highest Band Edge / Full RB



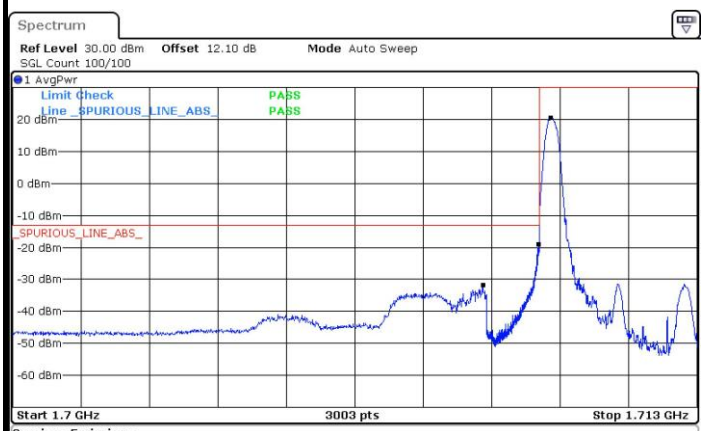
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75308 GHz	10.17 dBm	-19.83 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75501 GHz	-25.20 dBm	-12.20 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75603 GHz	-29.89 dBm	-16.89 dB

Date: 5.JUN.2019 21:27:37

LTE Band 4 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

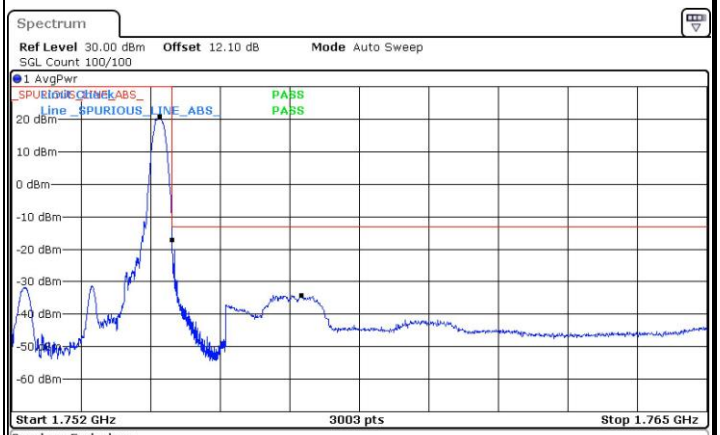


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70894 GHz	-31.66 dBm	-18.66 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.70999 GHz	-19.14 dBm	-6.14 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71021 GHz	20.54 dBm	-9.46 dB

Date: 5.JUN.2019 21:19:38

Highest Band Edge /1 RB

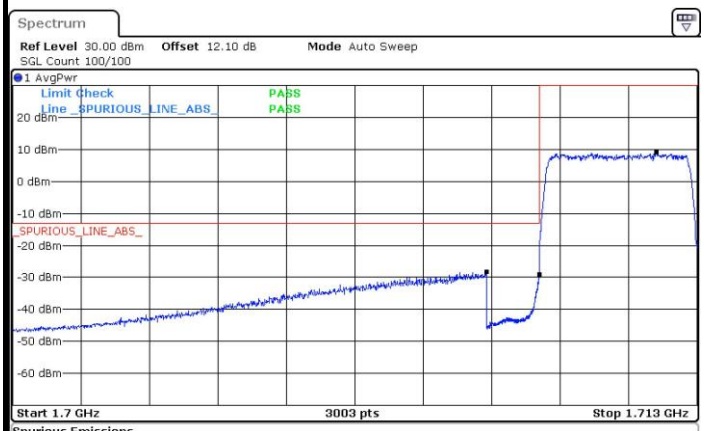


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75476 GHz	20.90 dBm	-9.10 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-17.06 dBm	-4.06 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75742 GHz	-34.15 dBm	-21.15 dB

Date: 5.JUN.2019 21:27:02

Lowest Band Edge / Full RB

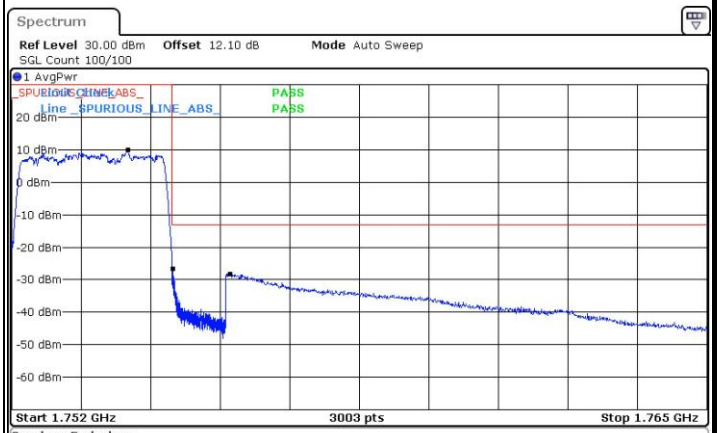


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70900 GHz	-28.40 dBm	-15.40 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-29.20 dBm	-16.20 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71222 GHz	9.18 dBm	-20.82 dB

Date: 5.JUN.2019 21:20:48

Highest Band Edge / Full RB



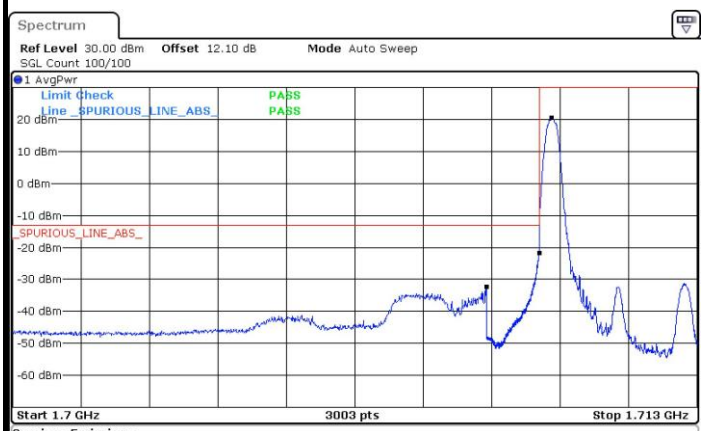
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75417 GHz	9.85 dBm	-20.15 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75501 GHz	-26.60 dBm	-13.60 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75609 GHz	-28.19 dBm	-15.19 dB

Date: 5.JUN.2019 21:28:12

LTE Band 4 / 3MHz / 64QAM

Lowest Band Edge / 1 RB

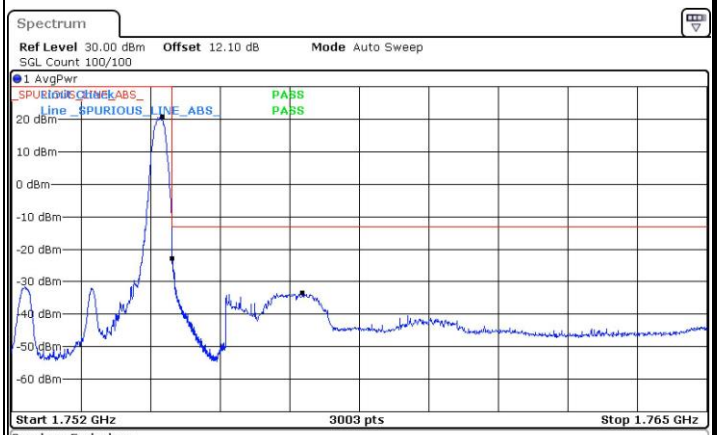


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70900 GHz	-32.25 dBm	-19.25 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-21.81 dBm	-8.81 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71023 GHz	20.50 dBm	-9.50 dB

Date: 5.JUN.2019 22:17:22

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	1.75481 GHz	20.70 dBm	-9.30 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-22.79 dBm	-9.79 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75743 GHz	-33.55 dBm	-20.55 dB

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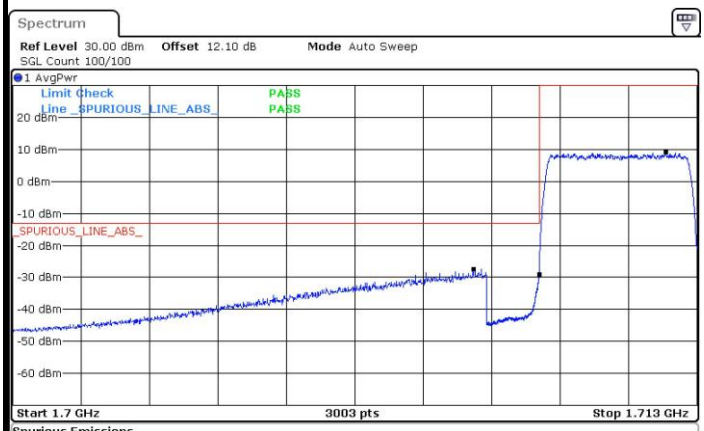
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70876 GHz	-27.46 dBm	-14.46 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-29.08 dBm	-16.08 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71240 GHz	9.08 dBm	-20.92 dB

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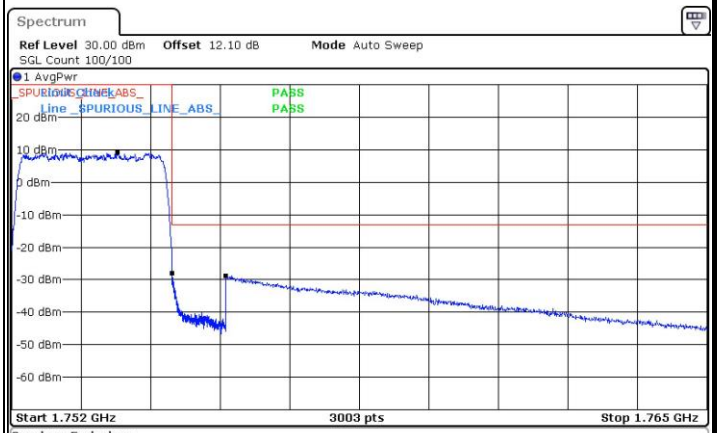
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75397 GHz	9.15 dBm	-20.85 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-28.12 dBm	-15.12 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75600 GHz	-28.78 dBm	-15.78 dB

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