LTE Band 5	
Lowest Channel / 1.4MHz / QPSK	**Lowest Channel / 1.4MHz / 16QAM**

Date: 6.DEC.2018 17:25:37

Date: 6.DEC.2018 17:25:26

Middle Channel / 1.4MHz / QPSK	**Middle Channel / 1.4MHz / 16QAM**
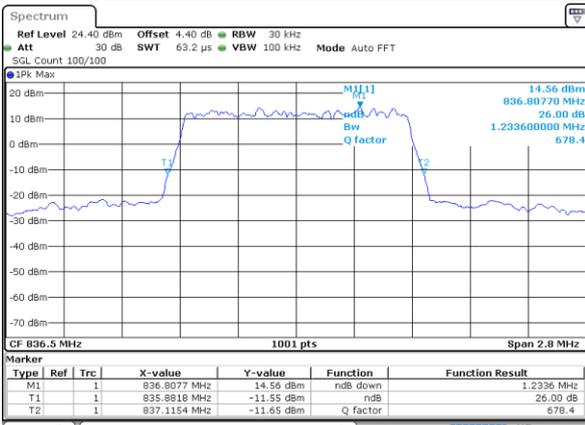
Date: 6.DEC.2018 17:34:31
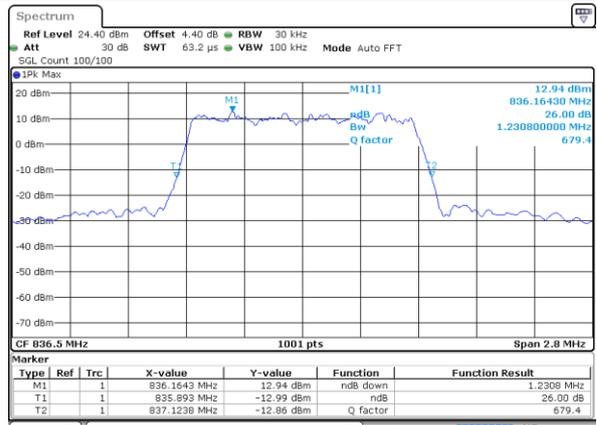
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Highest Channel / 1.4MHz / QPSK	**Highest Channel / 1.4MHz / 16QAM**
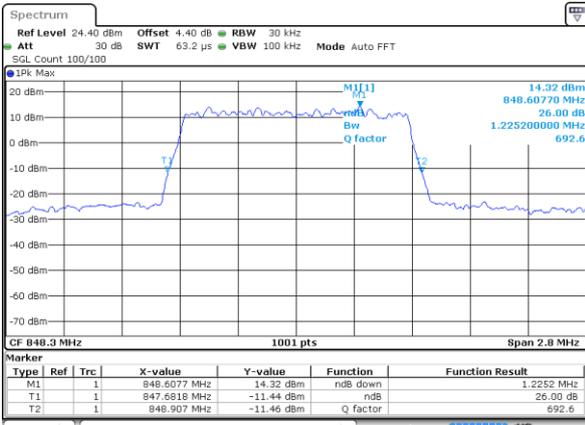
Date: 6.DEC.2018 17:37:03

Date: 6.DEC.2018 17:37:14

Sporton International (Kunshan) Inc.
TEL : 86-512-57900158
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FCC ID : 2AFZZ-XMSF1G

Page Number   : A139 of A452
Report Issued Date : Jan. 17, 2019
Report Version   : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0
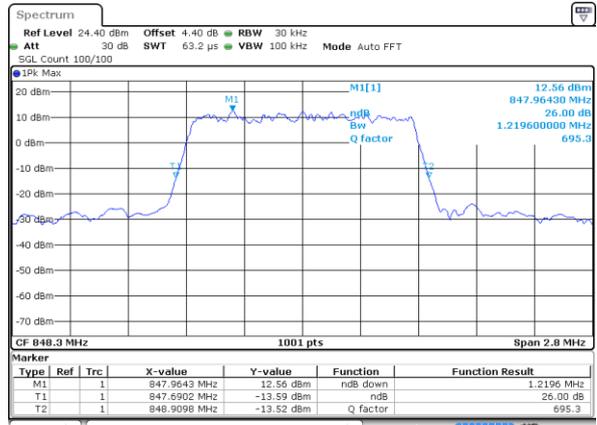
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Lowest Channel / 3MHz / QPSK	**Lowest Channel / 3MHz / 16QAM**
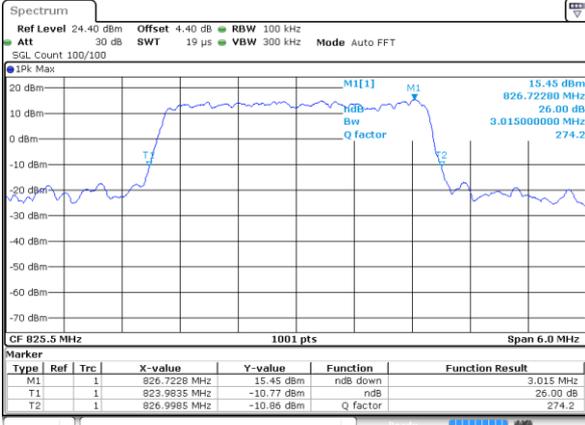
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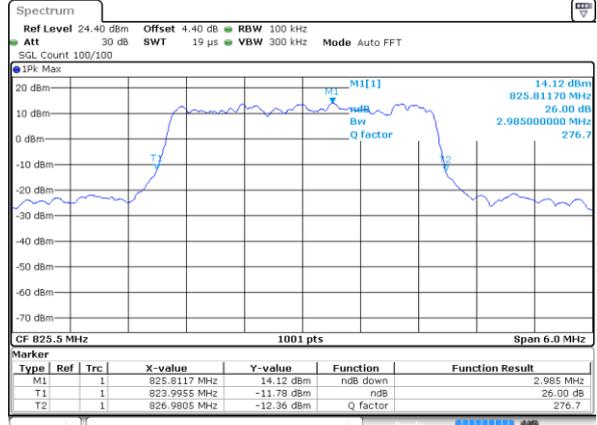
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Middle Channel / 3MHz / QPSK	**Middle Channel / 3MHz / 16QAM**
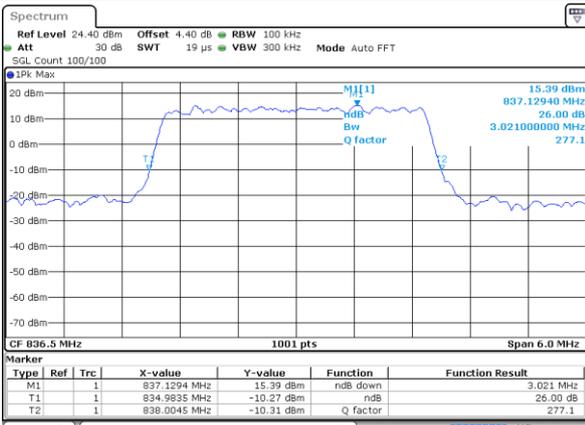
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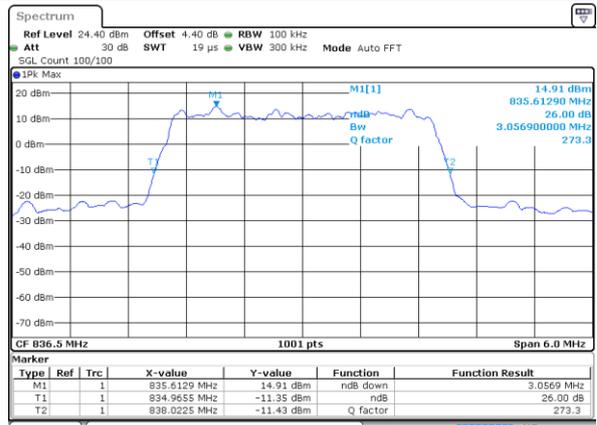
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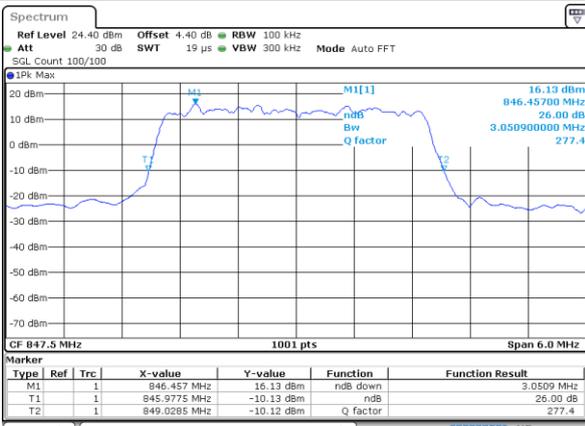
Date: 6.DEC.2018 17:57:45

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Sporton International (Kunshan) Inc.
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FCC ID : 2AFZZ-XMSF1G

Page Number   : A140 of A452
Report Issued Date : Jan. 17, 2019
Report Version   : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0
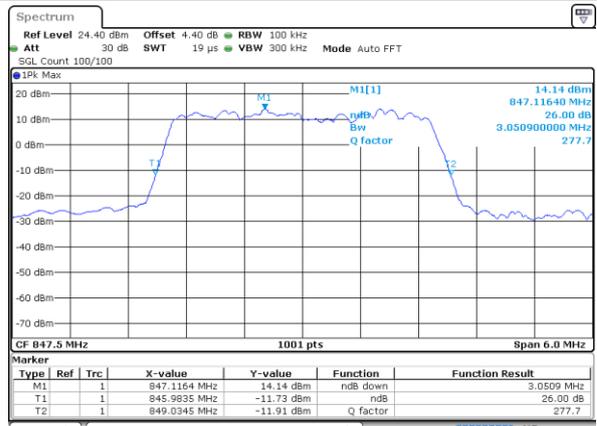
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Lowest Channel / 5MHz / QPSK	**Lowest Channel / 5MHz / 16QAM**
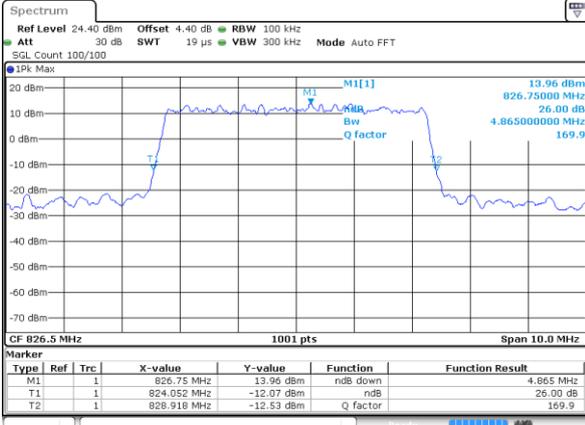
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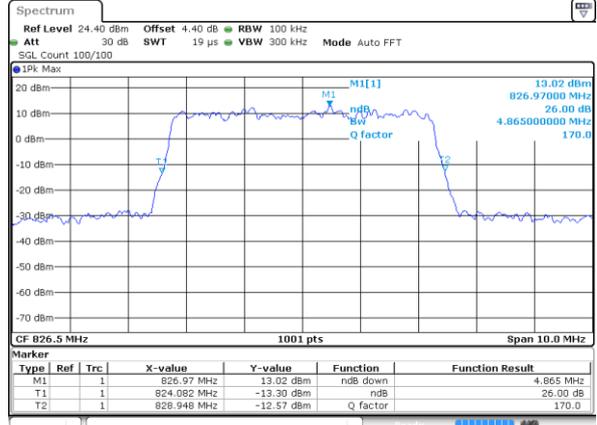
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Middle Channel / 5MHz / QPSK	**Middle Channel / 5MHz / 16QAM**
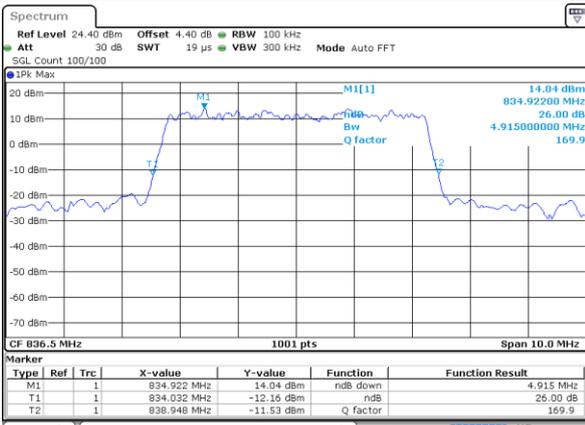
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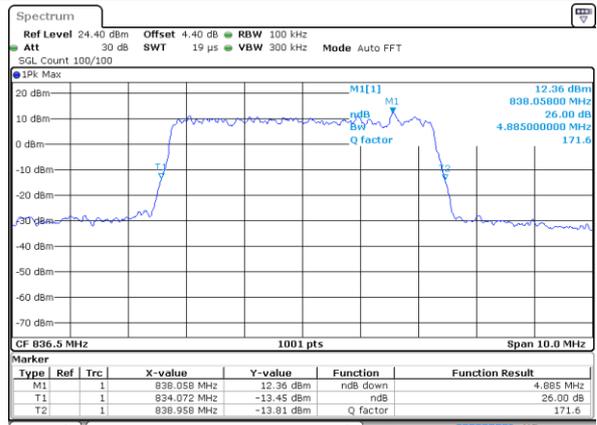
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Highest Channel / 5MHz / QPSK	**Highest Channel / 5MHz / 16QAM**
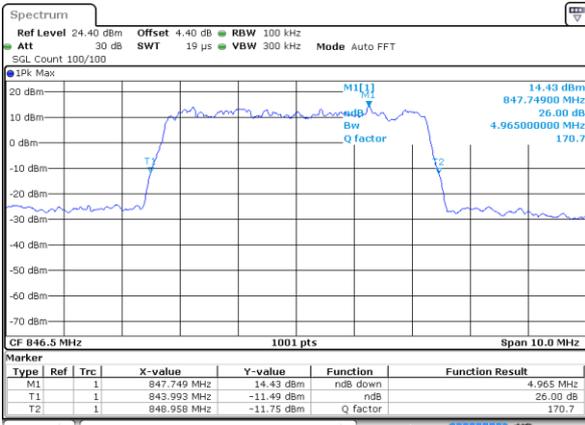
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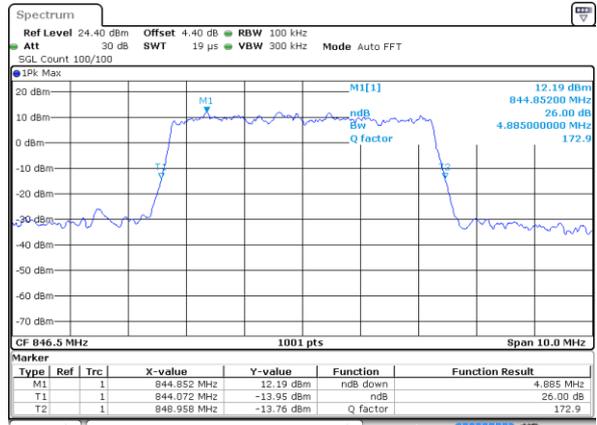
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LTE Band 5	
Lowest Channel / 10MHz / QPSK	**Lowest Channel / 10MHz / 16QAM**
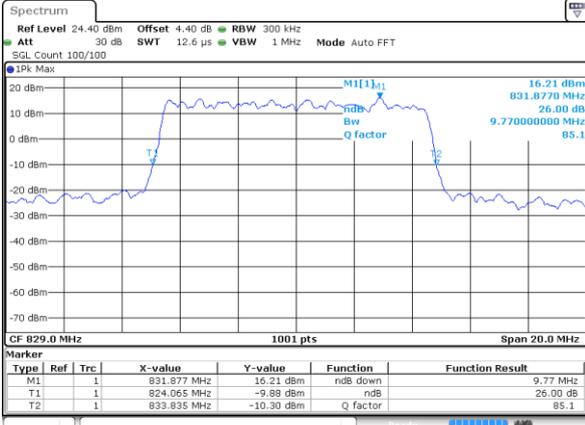
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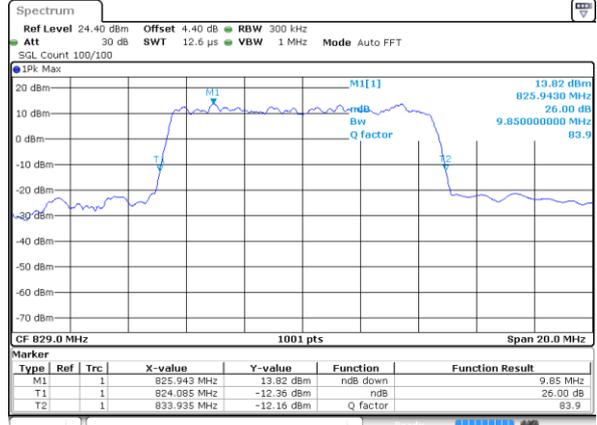
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Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
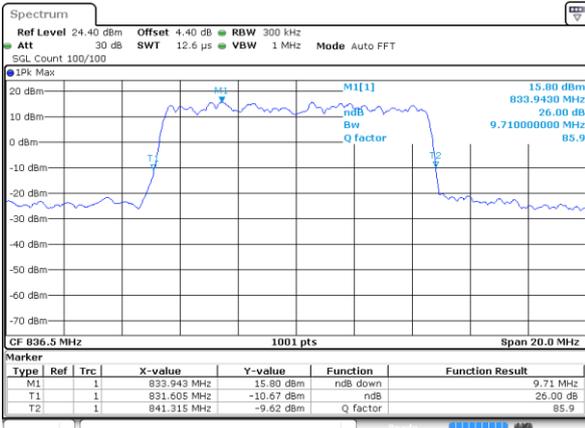
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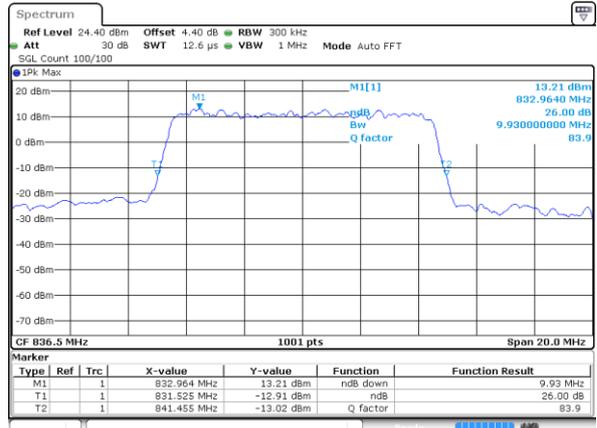
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Highest Channel / 10MHz / QPSK	**Highest Channel / 10MHz / 16QAM**
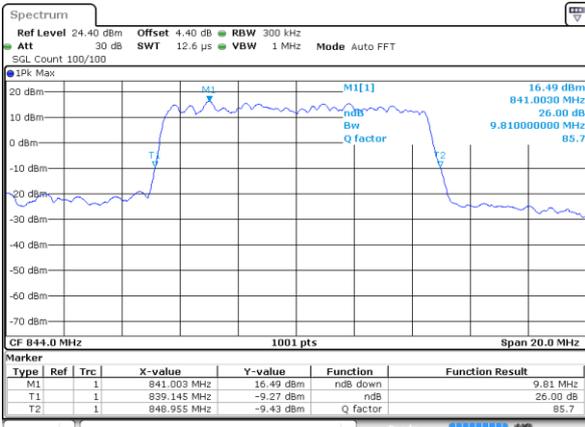
Date: 6.DEC.2018 18:39:12

Date: 6.DEC.2018 18:39:23

Sporton International (Kunshan) Inc.
TEL : 86-512-57900158
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FCC ID : 2AFZZ-XMSF1G

Page Number : A142 of A452
Report Issued Date : Jan. 17, 2019
Report Version : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0
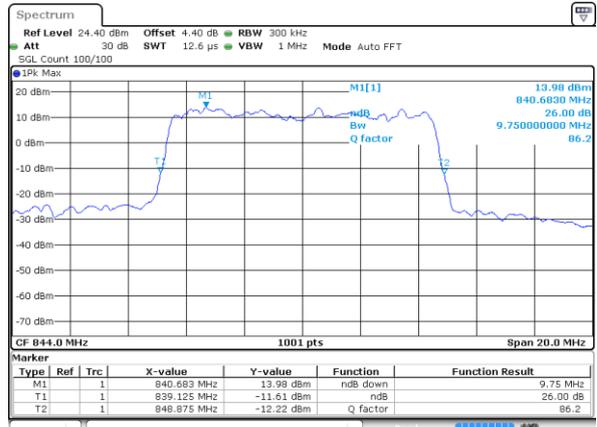
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Lowest Channel / 1.4MHz / 64QAM	**Lowest Channel / 3MHz / 64QAM**
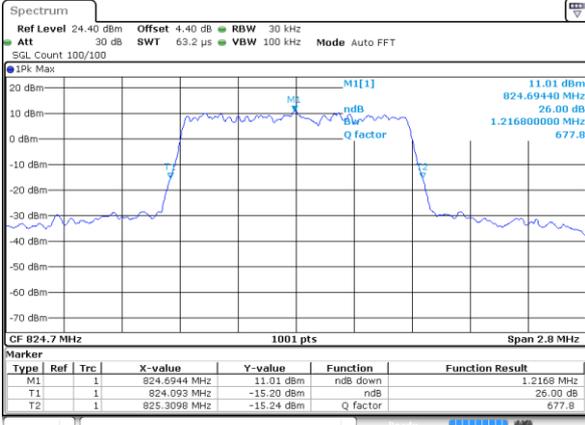
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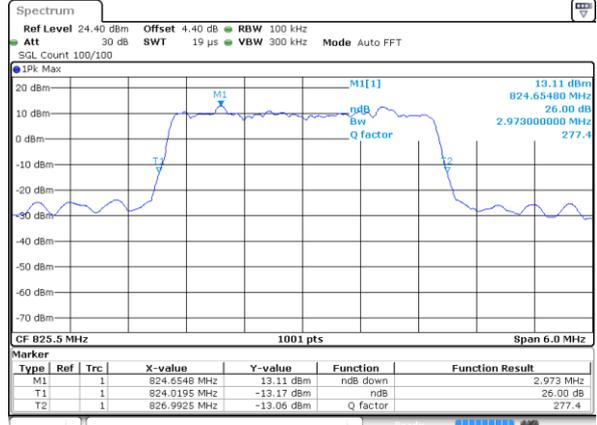
Date: 7.DEC.2018 09:02:15

Middle Channel / 1.4MHz / 64QAM	**Middle Channel / 3MHz / 64QAM**
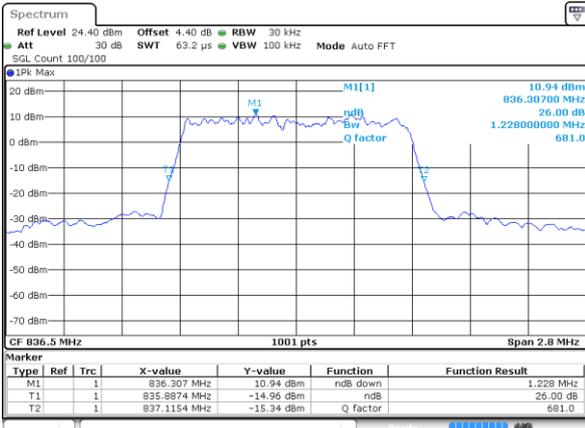
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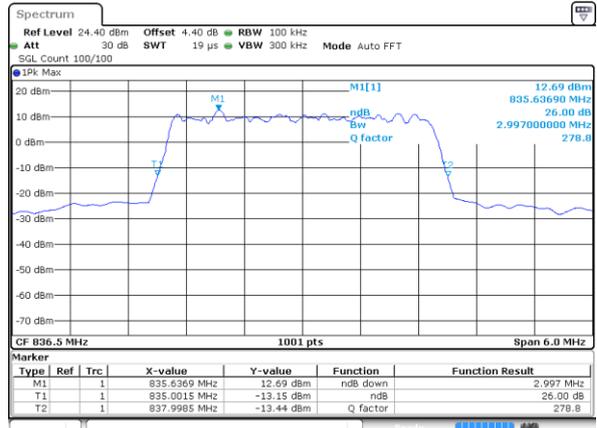
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Highest Channel / 1.4MHz / 64QAM	**Highest Channel / 3MHz / 64QAM**
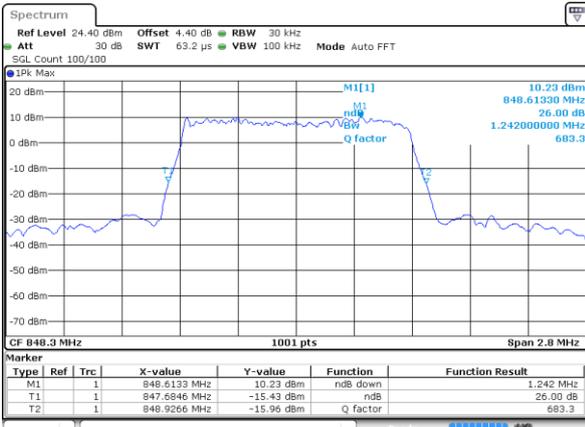
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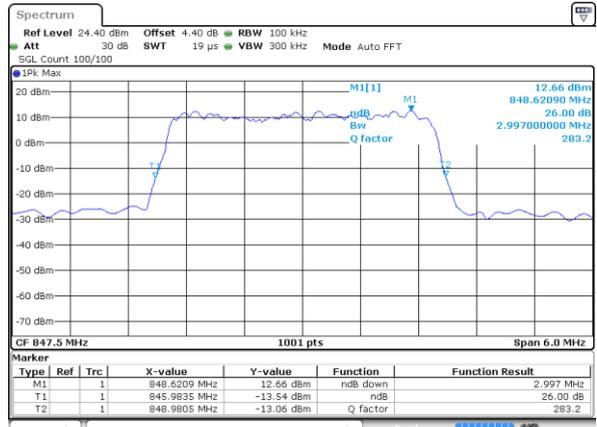
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LTE Band 5	
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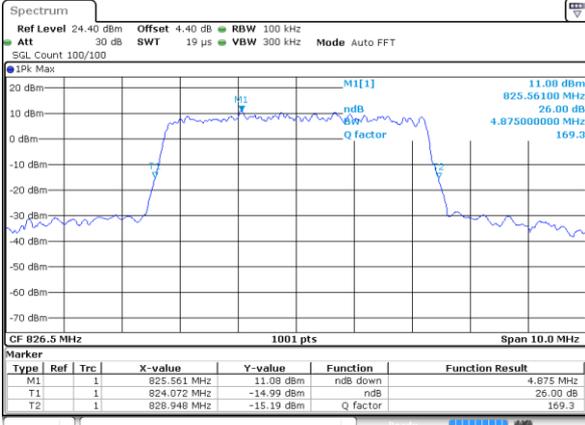
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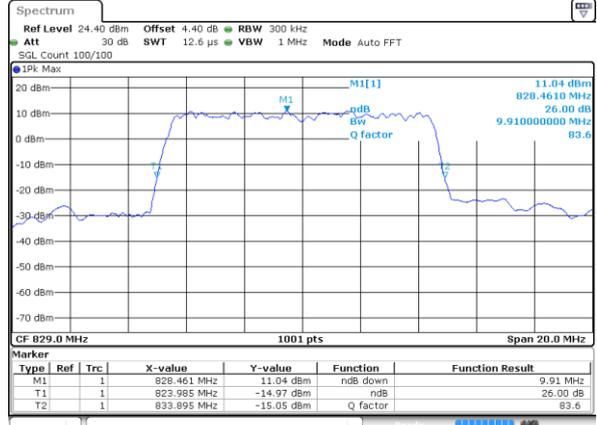
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Middle Channel / 5MHz / 64QAM	**Middle Channel / 10MHz / 64QAM**
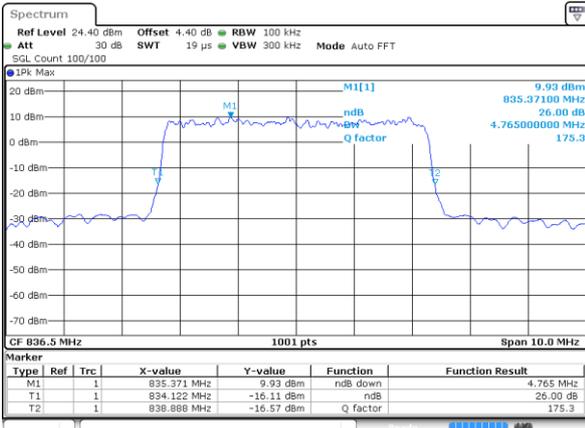
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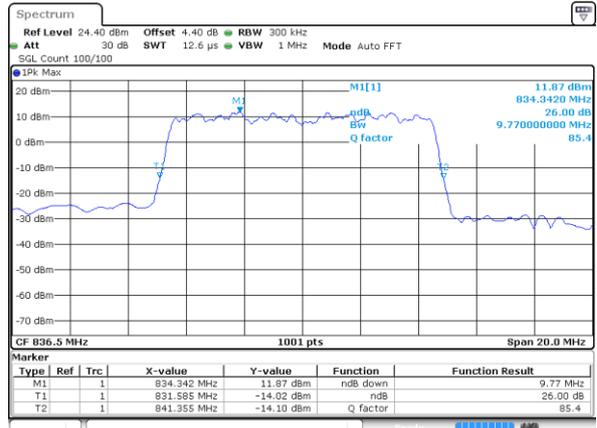
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Highest Channel / 5MHz / 64QAM	**Highest Channel / 10MHz / 64QAM**
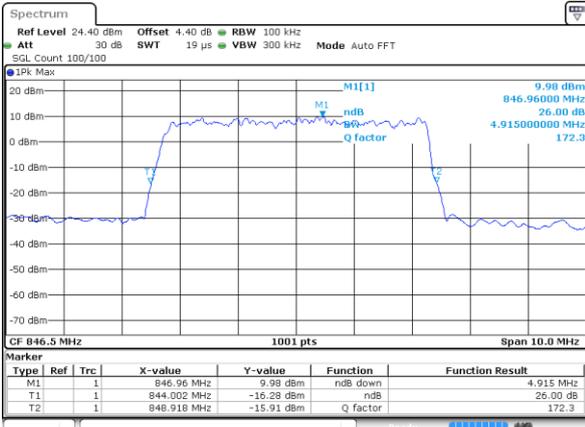
Date: 7.DEC.2018 08:40:47

Date: 7.DEC.2018 08:51:08

Sporton International (Kunshan) Inc.
TEL : 86-512-57900158
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FCC ID : 2AFZZ-XMSF1G

Page Number : A144 of A452
Report Issued Date : Jan. 17, 2019
Report Version : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0
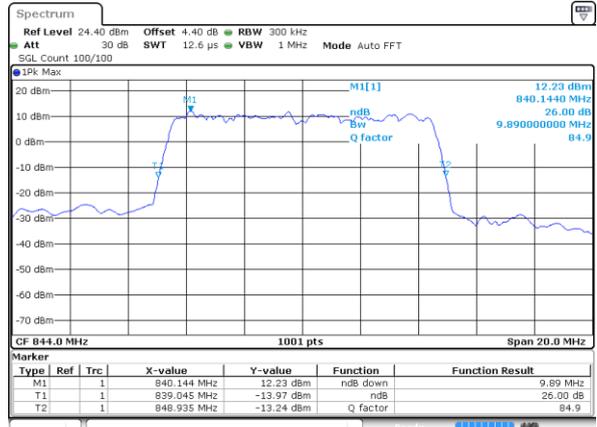
LTE Band 7	
Lowest Channel / 5MHz / QPSK	**Lowest Channel / 5MHz / 16QAM**
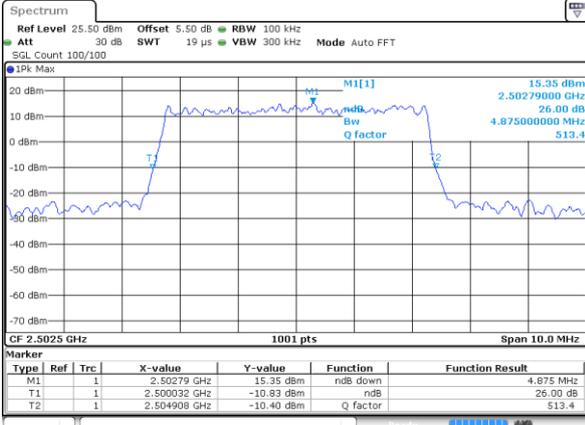
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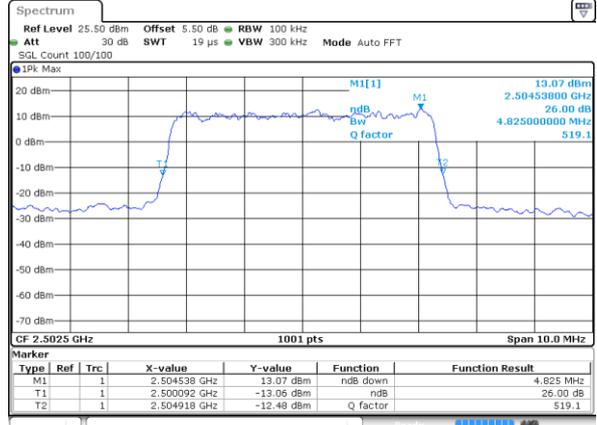
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Middle Channel / 5MHz / QPSK	**Middle Channel / 5MHz / 16QAM**
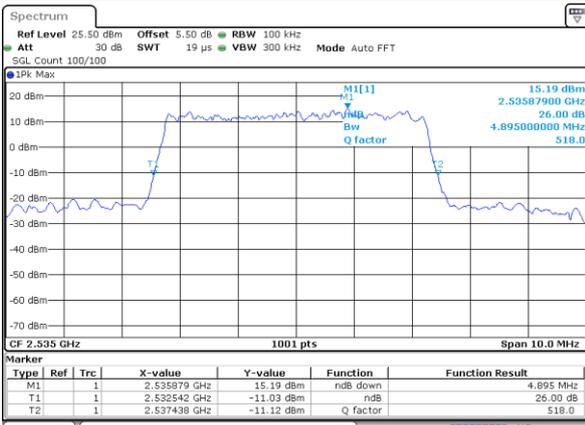
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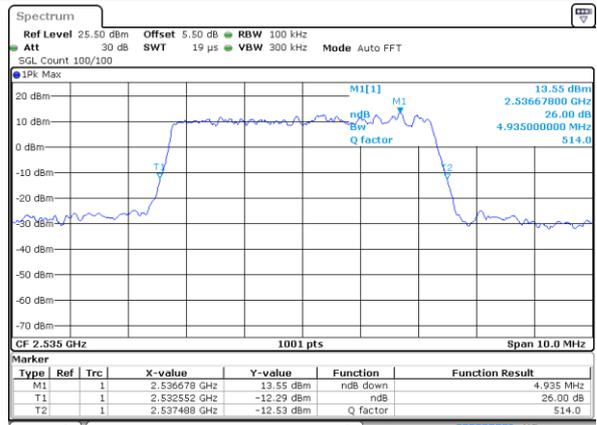
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Highest Channel / 5MHz / QPSK	**Highest Channel / 5MHz / 16QAM**
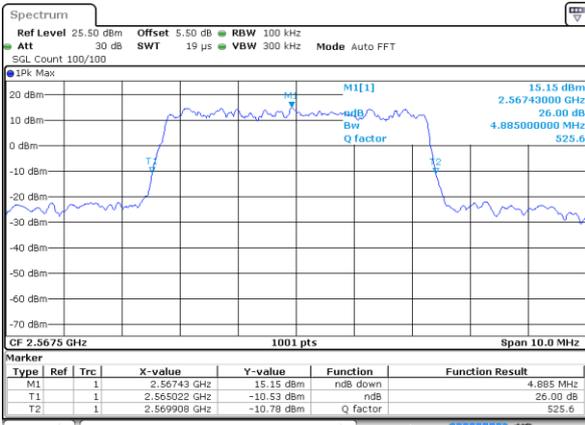
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Date: 18.DEC.2018 11:41:28

Sporton International (Kunshan) Inc.

TEL : 86-512-57900158
FAX : 86-512-57900958
FCC ID : 2AFZZ-XMSF1G

Page Number : A145 of A452
Report Issued Date : Jan. 17, 2019
Report Version : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0
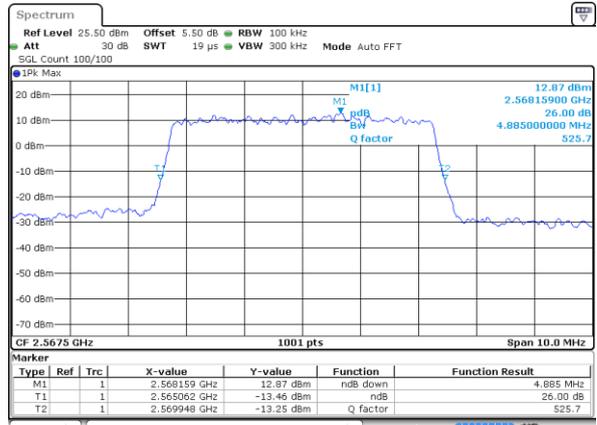
LTE Band 7	
Lowest Channel / 10MHz / QPSK	**Lowest Channel / 10MHz / 16QAM**
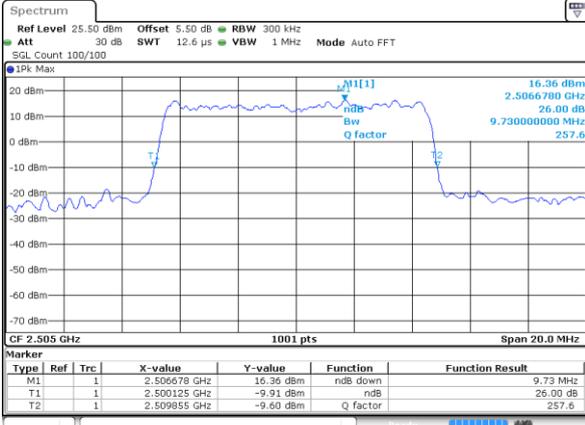
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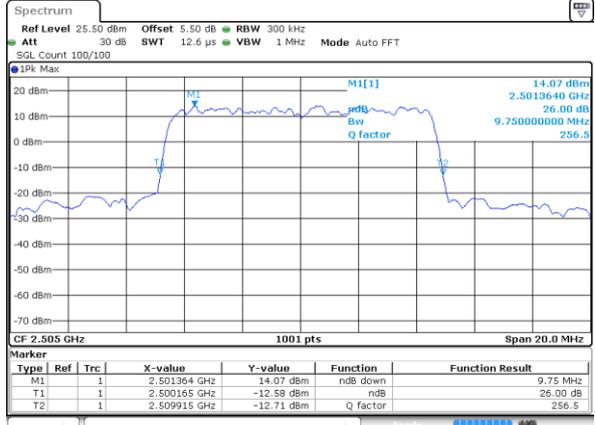
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Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
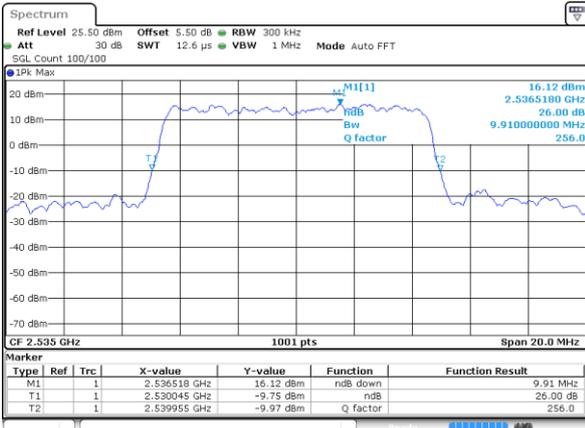
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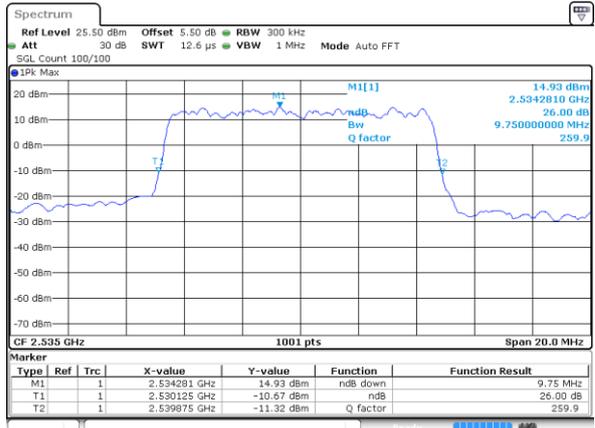
Date: 18.DEC.2018 11:56:58

Highest Channel / 10MHz / QPSK	**Highest Channel / 10MHz / 16QAM**

Date: 18.DEC.2018 11:57:38

Date: 18.DEC.2018 11:57:59

Sporton International (Kunshan) Inc.
TEL : 86-512-57900158
FAX : 86-512-57900958
FCC ID : 2AFZZ-XMSF1G

Page Number   : A146 of A452
Report Issued Date : Jan. 17, 2019
Report Version   : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0

LTE Band 7	
Lowest Channel / 15MHz / QPSK	**Lowest Channel / 15MHz / 16QAM**
Middle Channel / 15MHz / QPSK	**Middle Channel / 15MHz / 16QAM**
Highest Channel / 15MHz / QPSK	**Highest Channel / 15MHz / 16QAM**

Sporton International (Kunshan) Inc.

TEL : 86-512-57900158

FAX : 86-512-57900958

FCC ID : 2AFZZ-XMSF1G

Page Number   : A147 of A452

Report Issued Date : Jan. 17, 2019

Report Version   : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

LTE Band 7

Lowest Channel / 20MHz / QPSK	Lowest Channel / 20MHz / 16QAM

Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM

Highest Channel / 20MHz / QPSK	Highest Channel / 20MHz / 16QAM

Sporton International (Kunshan) Inc.

TEL : 86-512-57900158

FAX : 86-512-57900958

FCC ID : 2AFZZ-XMSF1G

Page Number   : A148 of A452

Report Issued Date : Jan. 17, 2019

Report Version   : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

LTE Band 7

Lowest Channel / 5MHz / 64QAM	Lowest Channel / 10MHz / 64QAM
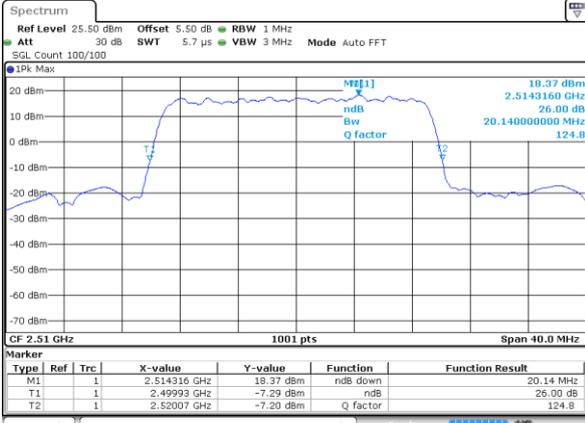
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Date: 18.DEC.2018 13:39:49

Middle Channel / 5MHz / 64QAM	Middle Channel / 10MHz / 64QAM
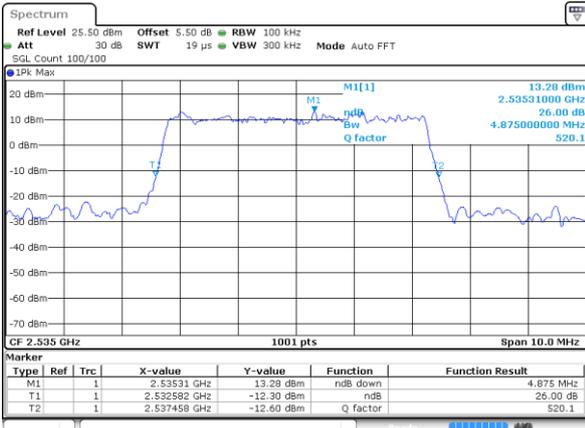
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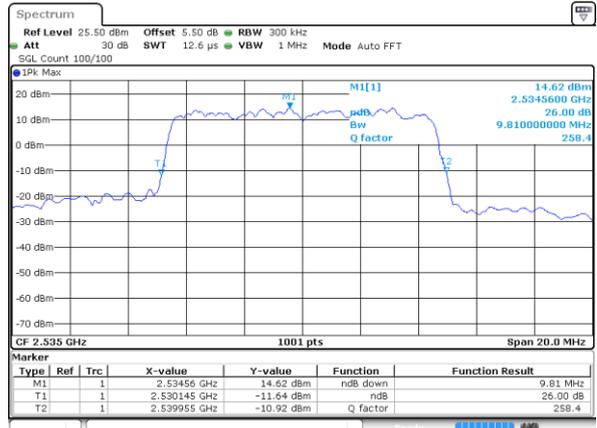
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Highest Channel / 5MHz / 64QAM	Highest Channel / 10MHz / 64QAM
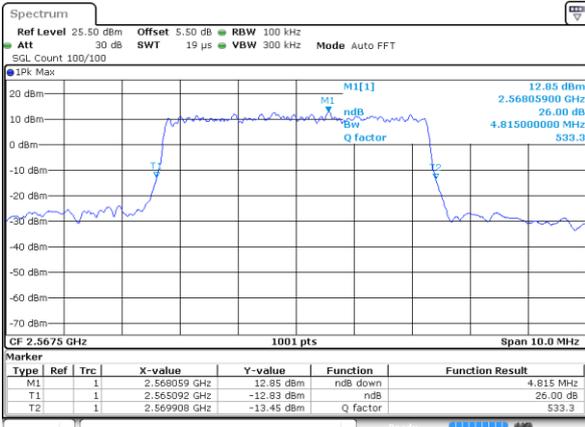
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Sporton International (Kunshan) Inc.
TEL : 86-512-57900158
FAX : 86-512-57900958
FCC ID : 2AFZZ-XMSF1G

Page Number   : A149 of A452
Report Issued Date : Jan. 17, 2019
Report Version   : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0
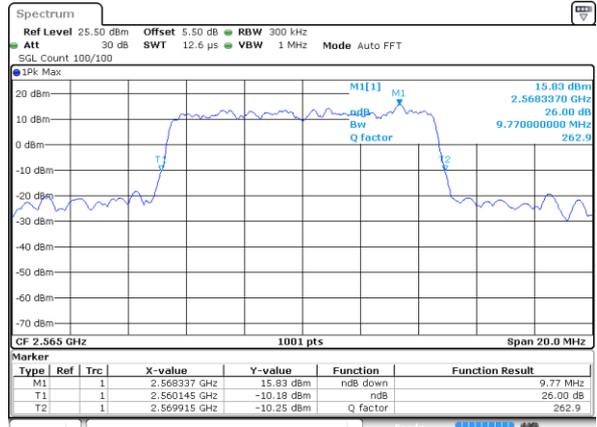
LTE Band 7

Lowest Channel / 15MHz / 64QAM	Lowest Channel / 20MHz / 64QAM
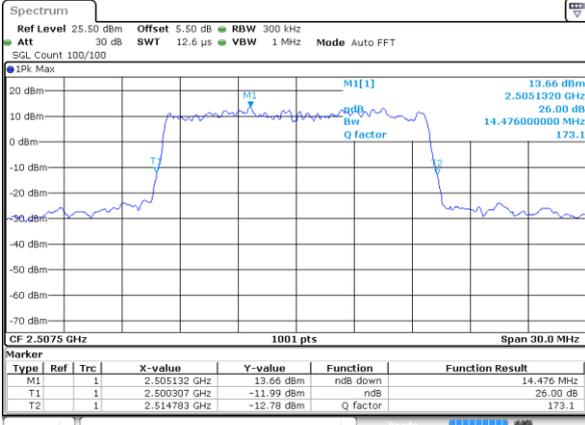
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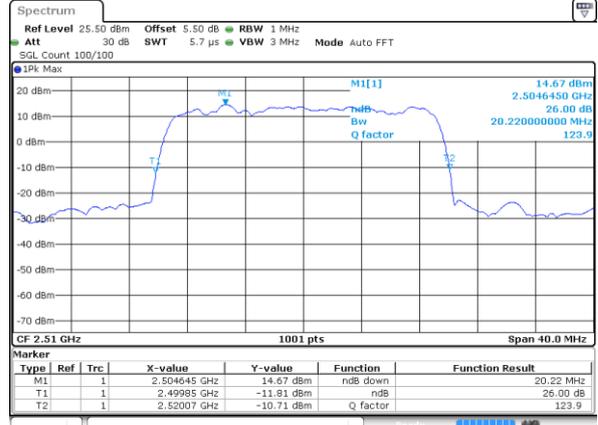
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Middle Channel / 15MHz / 64QAM	Middle Channel / 20MHz / 64QAM
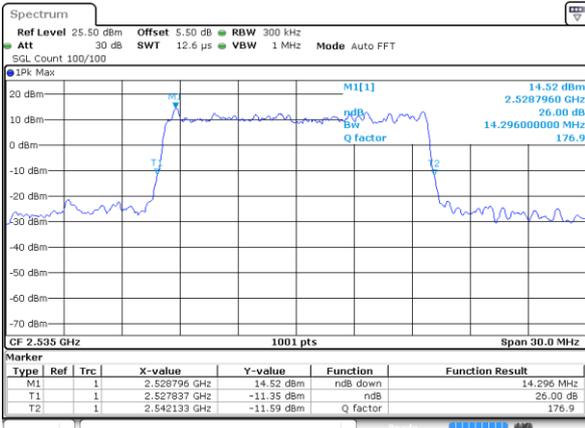
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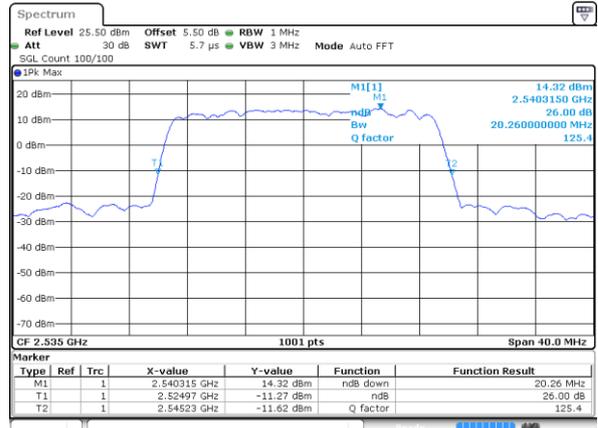
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Highest Channel / 15MHz / 64QAM	Highest Channel / 20MHz / 64QAM
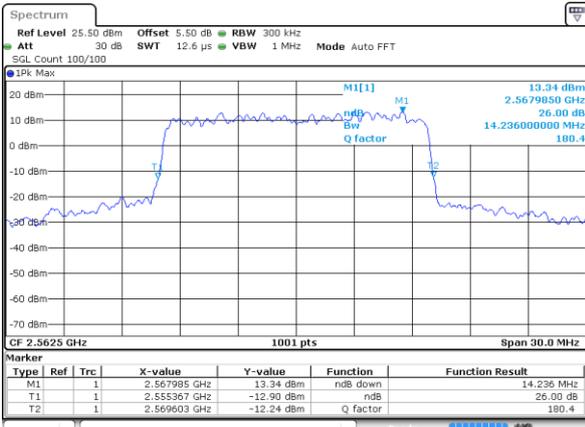
Date: 18.DEC.2018 13:46:07

Date: 18.DEC.2018 13:53:45

Sporton International (Kunshan) Inc.
TEL : 86-512-57900158
FAX : 86-512-57900958
FCC ID : 2AFZZ-XMSF1G

Page Number : A150 of A452
Report Issued Date : Jan. 17, 2019
Report Version : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0
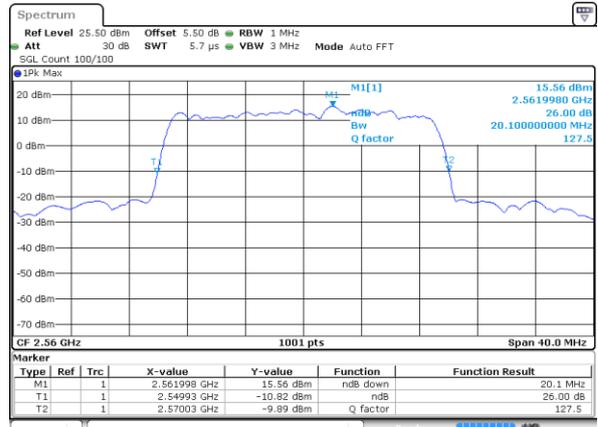
LTE Band 12

Lowest Channel / 1.4MHz / QPSK
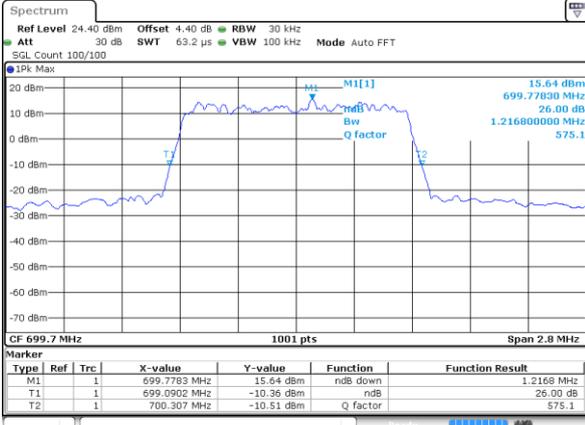
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Lowest Channel / 1.4MHz / 16QAM
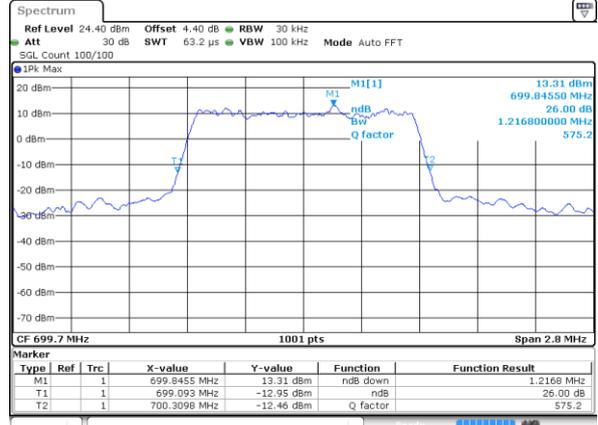
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Middle Channel / 1.4MHz / QPSK
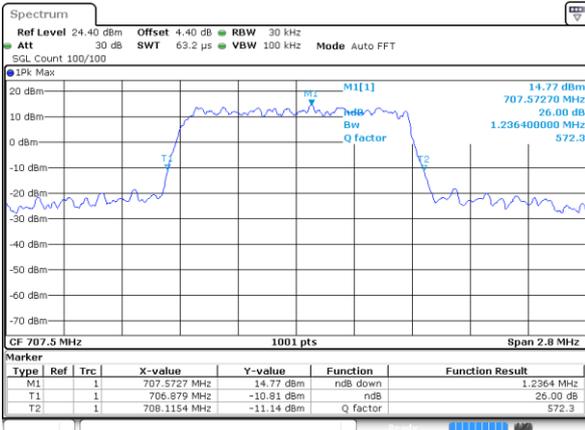
Date: 11.DEC.2018 16:39:12

Middle Channel / 1.4MHz / 16QAM
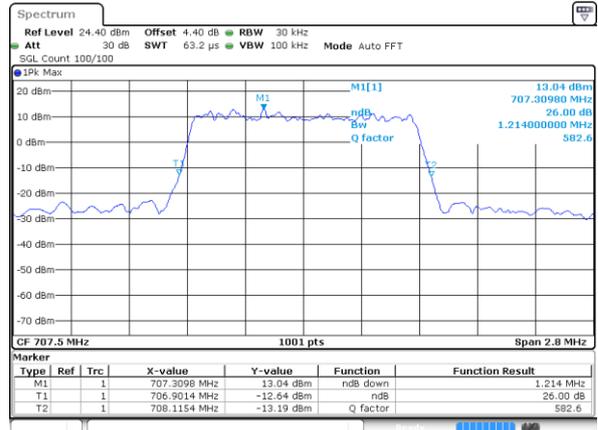
Date: 11.DEC.2018 16:39:22

Highest Channel / 1.4MHz / QPSK
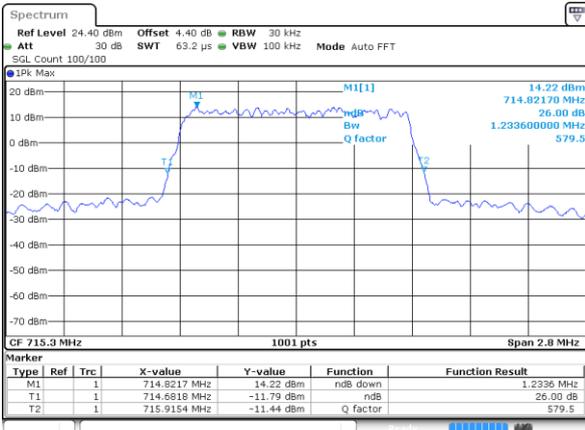
Date: 11.DEC.2018 16:39:02

Highest Channel / 1.4MHz / 16QAM

Date: 11.DEC.2018 16:38:52

Sporton International (Kunshan) Inc.
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FAX : 86-512-57900958
FCC ID : 2AFZZ-XMSF1G

Page Number : A151 of A452
Report Issued Date : Jan. 17, 2019
Report Version : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0

LTE Band 12

Lowest Channel / 3MHz / QPSK

Spectrum
Ref Level 24.40 dBm Offset 4.40 dB RBW 100 kHz
Att 30 dB SWT 19 µs VBW 300 kHz Mode Auto FFT
SGL Count 100/100
1Pk Max

M1[1] 15.10 dBm
700.53600 MHz
ndB 26.00 dB
Bw 3.021000000 MHz
Q factor 231.9

CF 700.5 MHz 1001 pts Span 6.0 MHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	700.536 MHz	15.10 dBm	ndB down	3.021 MHz
T1		1	699.0015 MHz	-11.09 dBm	ndB	26.00 dB
T2		1	702.0225 MHz	-11.12 dBm	Q factor	231.9

Date: 11.DEC.2018 16:56:18

Lowest Channel / 3MHz / 16QAM

Spectrum
Ref Level 24.40 dBm Offset 4.40 dB RBW 100 kHz
Att 30 dB SWT 19 µs VBW 300 kHz Mode Auto FFT
SGL Count 100/100
1Pk Max

M1[1] 13.38 dBm
701.26120 MHz
ndB 26.00 dB
Bw 3.056900000 MHz
Q factor 229.4

CF 700.5 MHz 1001 pts Span 6.0 MHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	701.2612 MHz	13.38 dBm	ndB down	3.0569 MHz
T1		1	698.9775 MHz	-12.40 dBm	ndB	26.00 dB
T2		1	702.0345 MHz	-12.96 dBm	Q factor	229.4

Date: 11.DEC.2018 16:56:08
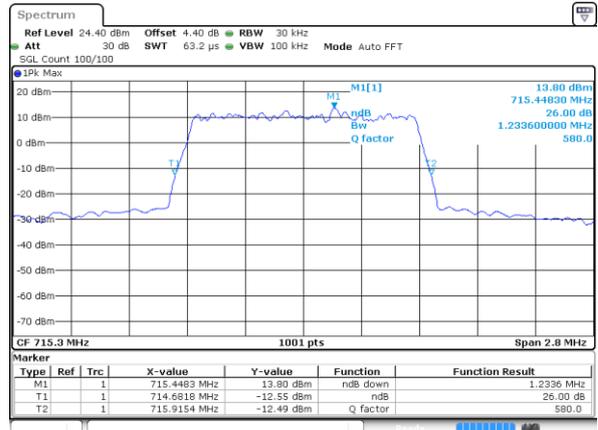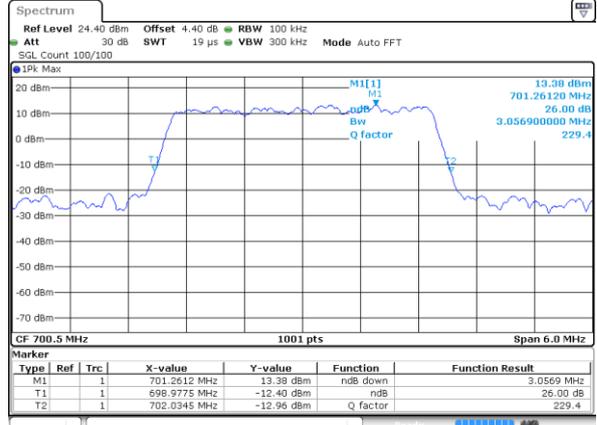
Middle Channel / 3MHz / QPSK

Spectrum
Ref Level 24.40 dBm Offset 4.40 dB RBW 100 kHz
Att 30 dB SWT 19 µs VBW 300 kHz Mode Auto FFT
SGL Count 100/100
1Pk Max

M1[1] 15.11 dBm
706.96050 MHz
ndB 26.00 dB
Bw 3.015000000 MHz
Q factor 234.5

CF 707.5 MHz 1001 pts Span 6.0 MHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.9605 MHz	15.11 dBm	ndB down	3.015 MHz
T1		1	705.9775 MHz	-10.96 dBm	ndB	26.00 dB
T2		1	708.9925 MHz	-10.59 dBm	Q factor	234.5

Date: 11.DEC.2018 16:55:48

Middle Channel / 3MHz / 16QAM

Spectrum
Ref Level 24.40 dBm Offset 4.40 dB RBW 100 kHz
Att 30 dB SWT 19 µs VBW 300 kHz Mode Auto FFT
SGL Count 100/100
1Pk Max

M1[1] 14.28 dBm
707.15830 MHz
ndB 26.00 dB
Bw 3.015000000 MHz
Q factor 234.5

CF 707.5 MHz 1001 pts Span 6.0 MHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	707.1583 MHz	14.28 dBm	ndB down	3.015 MHz
T1		1	706.0195 MHz	-11.94 dBm	ndB	26.00 dB
T2		1	709.0345 MHz	-11.92 dBm	Q factor	234.5

Date: 11.DEC.2018 16:55:58

Highest Channel / 3MHz / QPSK

Spectrum
Ref Level 24.40 dBm Offset 4.40 dB RBW 100 kHz
Att 30 dB SWT 19 µs VBW 300 kHz Mode Auto FFT
SGL Count 100/100
1Pk Max

M1[1] 16.08 dBm
714.08640 MHz
ndB 26.00 dB
Bw 3.027000000 MHz
Q factor 235.9

CF 714.5 MHz 1001 pts Span 6.0 MHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	714.0864 MHz	16.08 dBm	ndB down	3.027 MHz
T1		1	712.9895 MHz	-9.83 dBm	ndB	26.00 dB
T2		1	716.0165 MHz	-10.13 dBm	Q factor	235.9

Date: 11.DEC.2018 16:55:38

Highest Channel / 3MHz / 16QAM

Spectrum
Ref Level 24.40 dBm Offset 4.40 dB RBW 100 kHz
Att 30 dB SWT 19 µs VBW 300 kHz Mode Auto FFT
SGL Count 100/100
1Pk Max

M1[1] 13.49 dBm
713.31320 MHz
ndB 26.00 dB
Bw 2.973000000 MHz
Q factor 239.9

CF 714.5 MHz 1001 pts Span 6.0 MHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	713.3132 MHz	13.49 dBm	ndB down	2.973 MHz
T1		1	713.0195 MHz	-12.61 dBm	ndB	26.00 dB
T2		1	715.9925 MHz	-12.42 dBm	Q factor	239.9

Date: 11.DEC.2018 16:55:28

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FCC ID : 2AFZZ-XMSF1G

Page Number : A152 of A452
Report Issued Date : Jan. 17, 2019
Report Version : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0

LTE Band 12

Lowest Channel / 5MHz / QPSK

Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	702.589 MHz	14.41 dBm	ndB down	4.845 MHz
T1		1	699.072 MHz	-11.43 dBm	ndB	26.00 dB
T2		1	703.918 MHz	-11.60 dBm	Q factor	145.0

Date: 11.DEC.2018 17:12:52

Lowest Channel / 5MHz / 16QAM

Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	701.0 MHz	12.77 dBm	ndB down	4.855 MHz
T1		1	699.082 MHz	-13.05 dBm	ndB	26.00 dB
T2		1	703.938 MHz	-13.35 dBm	Q factor	144.4

Date: 11.DEC.2018 17:12:42

Middle Channel / 5MHz / QPSK

Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	709.528 MHz	13.76 dBm	ndB down	4.935 MHz
T1		1	705.022 MHz	-12.66 dBm	ndB	26.00 dB
T2		1	709.958 MHz	-12.51 dBm	Q factor	143.8

Date: 11.DEC.2018 17:12:22

Middle Channel / 5MHz / 16QAM

Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	707.1 MHz	11.97 dBm	ndB down	4.875 MHz
T1		1	705.012 MHz	-13.89 dBm	ndB	26.00 dB
T2		1	709.888 MHz	-14.02 dBm	Q factor	145.0

Date: 11.DEC.2018 17:12:32

Highest Channel / 5MHz / QPSK

Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	714.109 MHz	13.11 dBm	ndB down	4.865 MHz
T1		1	711.052 MHz	-13.14 dBm	ndB	26.00 dB
T2		1	715.918 MHz	-13.08 dBm	Q factor	146.8

Date: 11.DEC.2018 17:12:12

Highest Channel / 5MHz / 16QAM

Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	713.97 MHz	11.63 dBm	ndB down	4.935 MHz
T1		1	711.062 MHz	-14.74 dBm	ndB	26.00 dB
T2		1	715.998 MHz	-14.18 dBm	Q factor	144.7

Date: 11.DEC.2018 17:12:02

Sporton International (Kunshan) Inc.
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FCC ID : 2AFZZ-XMSF1G

Page Number   : A153 of A452
Report Issued Date : Jan. 17, 2019
Report Version   : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0

LTE Band 12

Lowest Channel / 10MHz / QPSK

Date: 11.DEC.2018 17:29:27

Lowest Channel / 10MHz / 16QAM

Date: 11.DEC.2018 17:29:17

Middle Channel / 10MHz / QPSK

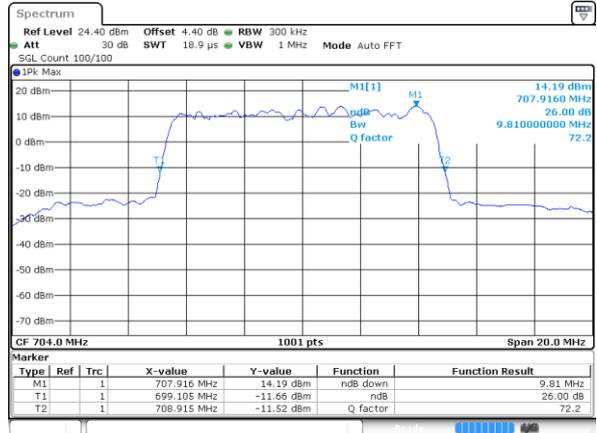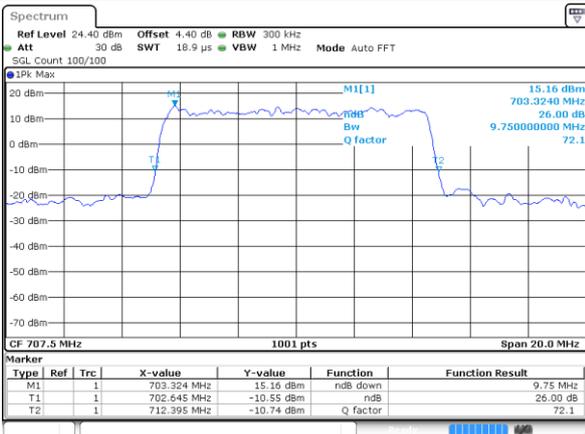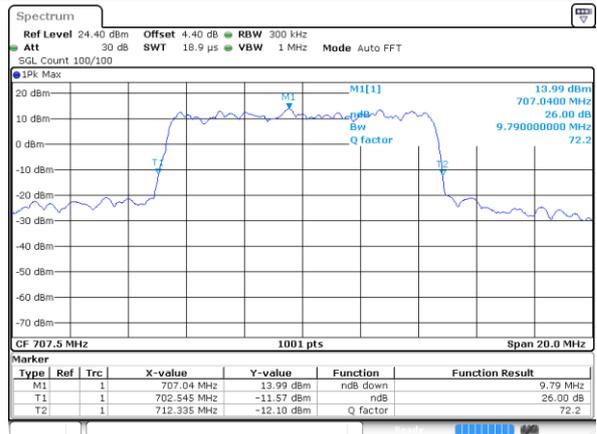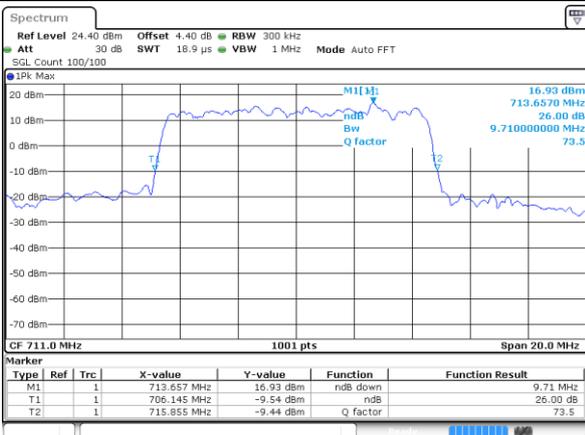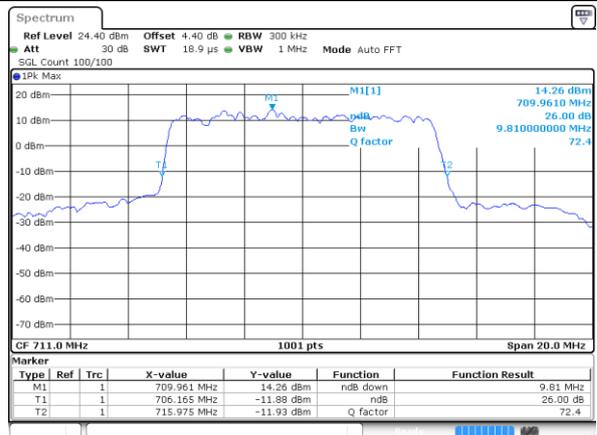Date: 11.DEC.2018 17:28:57

Middle Channel / 10MHz / 16QAM

Date: 11.DEC.2018 17:29:07

Highest Channel / 10MHz / QPSK

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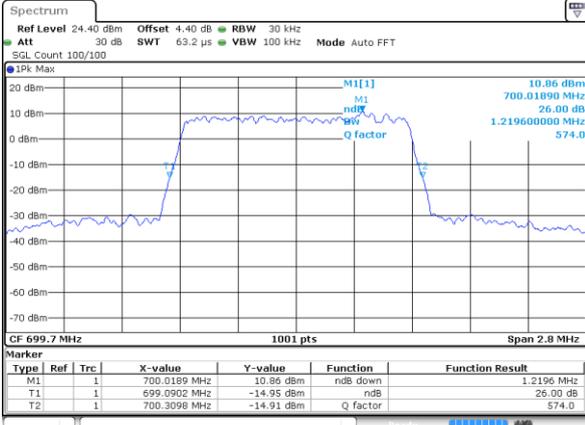
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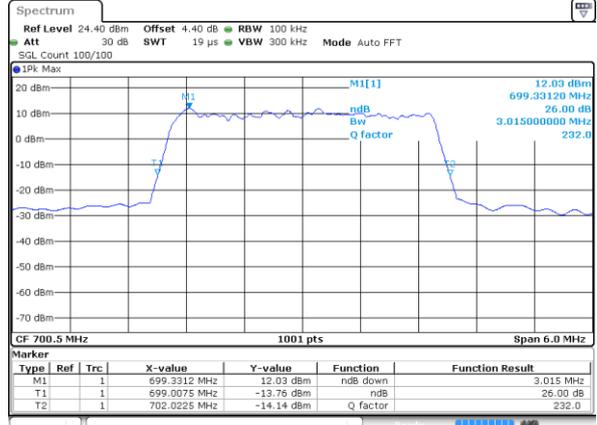

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Sporton International (Kunshan) Inc.

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FCC ID : 2AFZZ-XMSF1G

Page Number   : A154 of A452

Report Issued Date : Jan. 17, 2019

Report Version   : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

LTE Band 12

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

Sporton International (Kunshan) Inc.
TEL : 86-512-57900158
FAX : 86-512-57900958
FCC ID : 2AFZZ-XMSF1G

Page Number : A155 of A452
Report Issued Date : Jan. 17, 2019
Report Version : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0
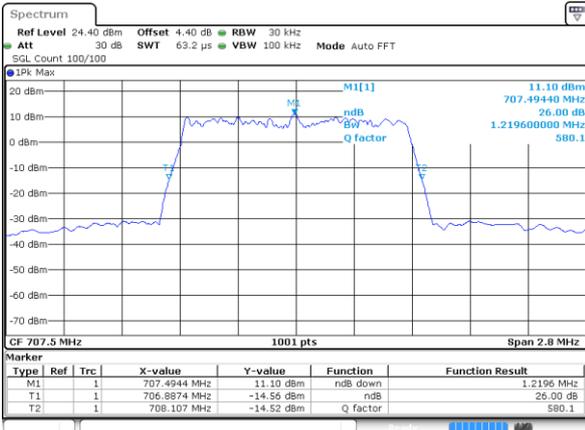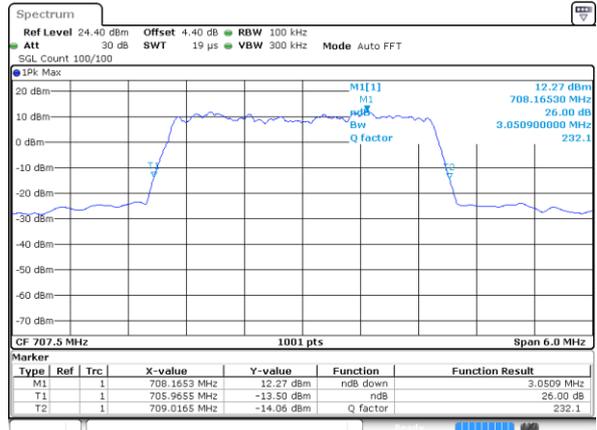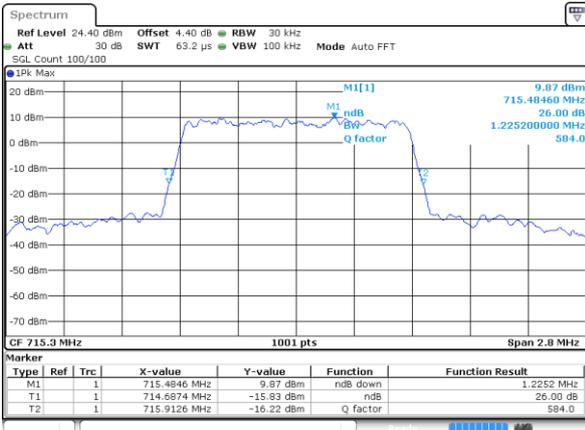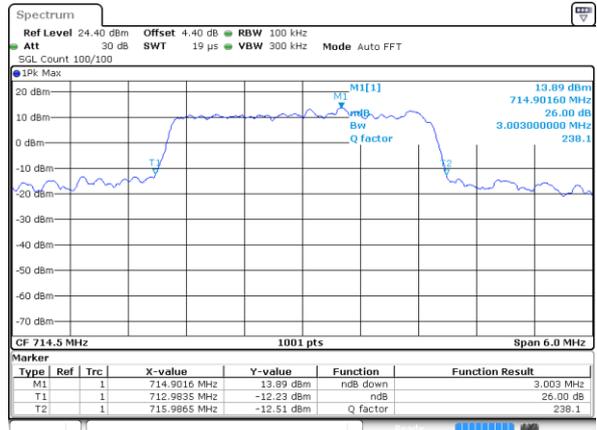
LTE Band 12

Lowest Channel / 5MHz / 64QAM	Lowest Channel / 10MHz / 64QAM
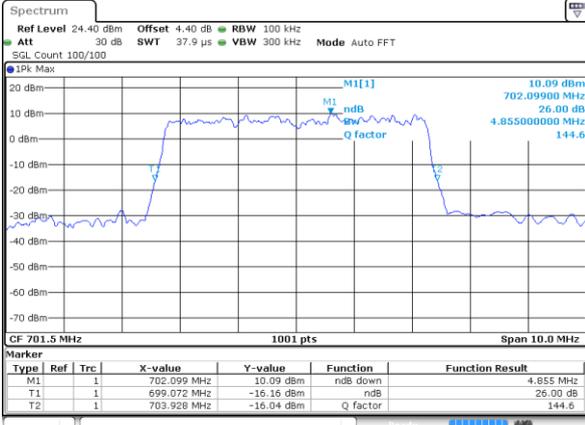
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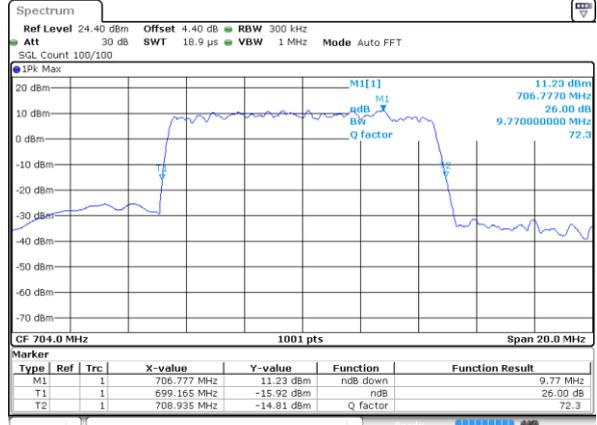
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Middle Channel / 5MHz / 64QAM	Middle Channel / 10MHz / 64QAM
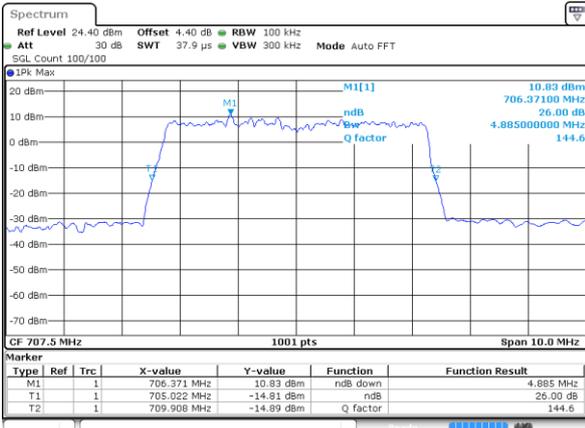
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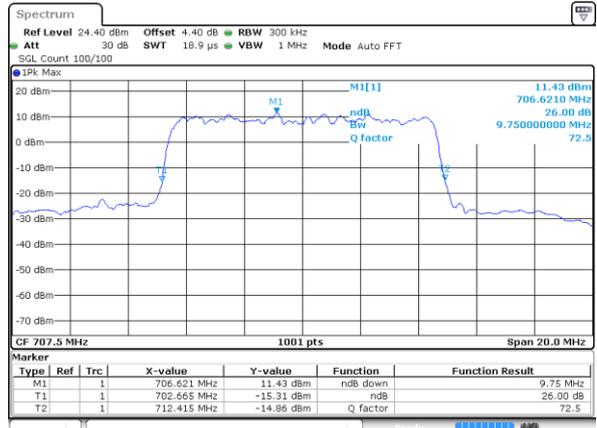
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Highest Channel / 5MHz / 64QAM	Highest Channel / 10MHz / 64QAM
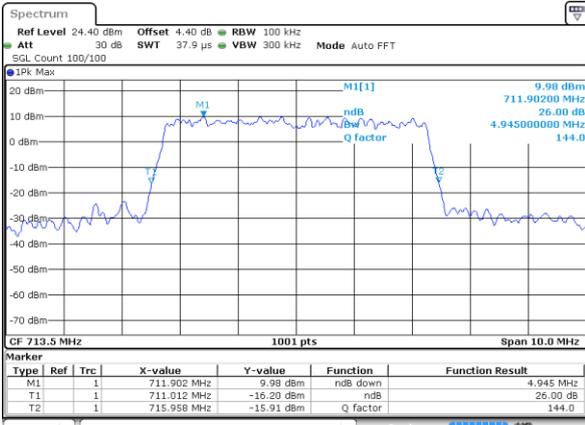
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Date: 11.DEC.2018 17:48:02

Sporton International (Kunshan) Inc.
TEL : 86-512-57900158
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FCC ID : 2AFZZ-XMSF1G

Page Number : A156 of A452
Report Issued Date : Jan. 17, 2019
Report Version : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0
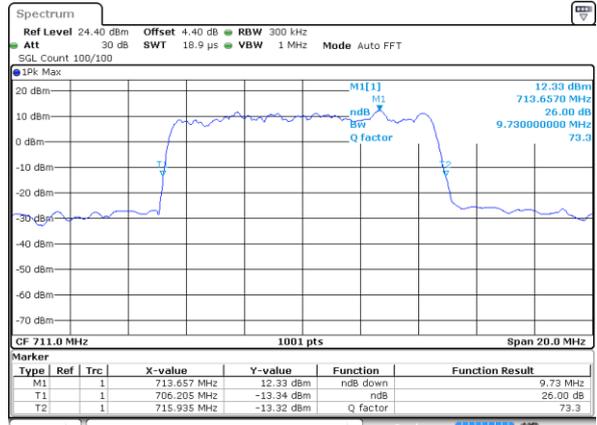
LTE Band 38

Lowest Channel / 5MHz / QPSK	Lowest Channel / 5MHz / 16QAM
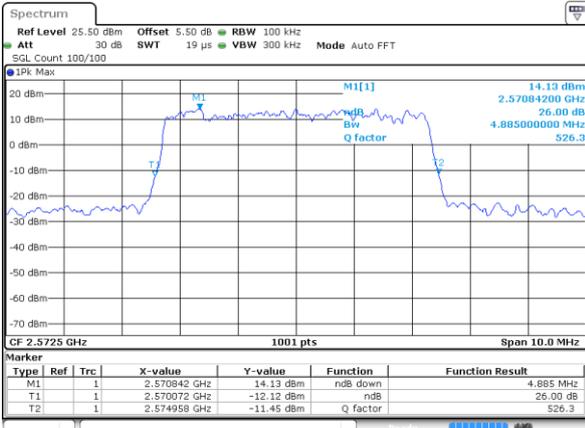
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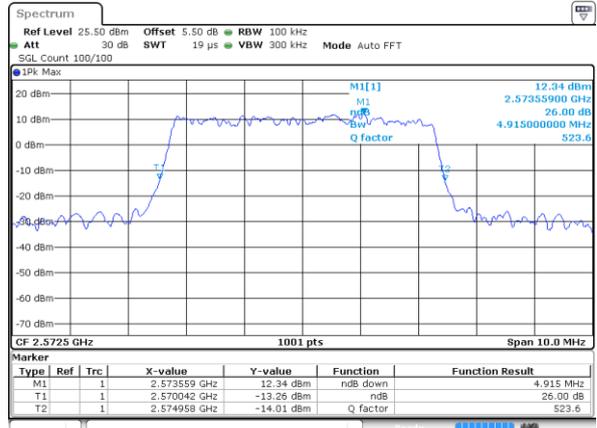
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Middle Channel / 5MHz / QPSK	Middle Channel / 5MHz / 16QAM
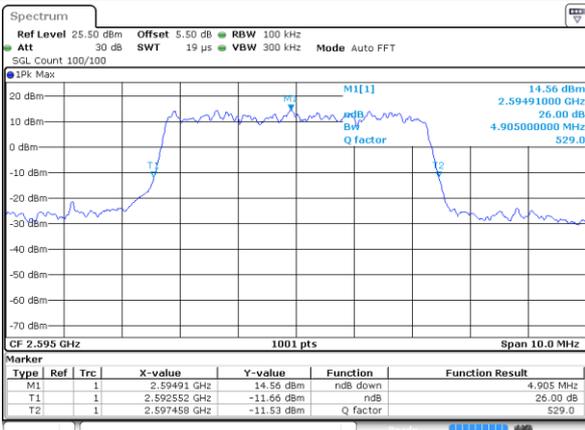
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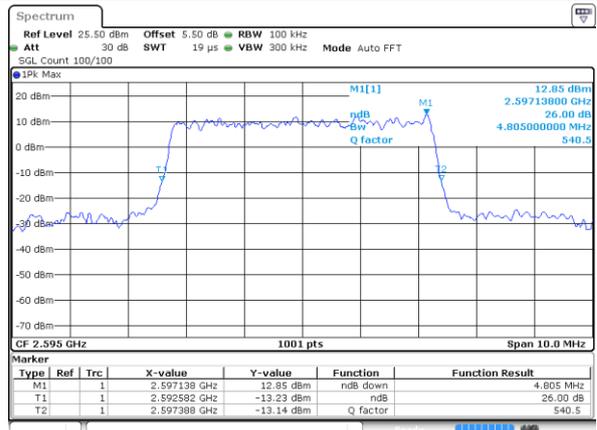
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Highest Channel / 5MHz / QPSK	Highest Channel / 5MHz / 16QAM
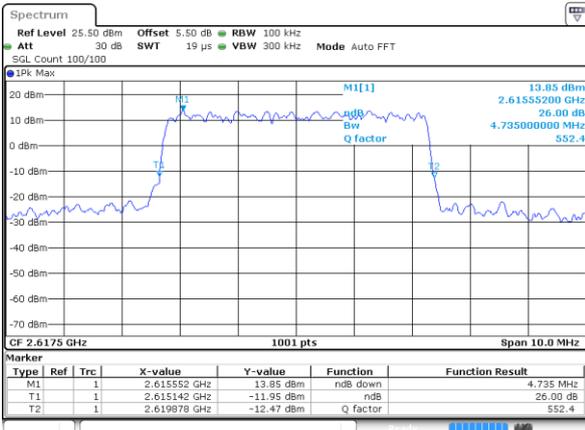
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FAX : 86-512-57900958
FCC ID : 2AFZZ-XMSF1G

Page Number   : A157 of A452
Report Issued Date : Jan. 17, 2019
Report Version   : Rev. 01
Report Template No.: BU5-FGLTE Version 2.0
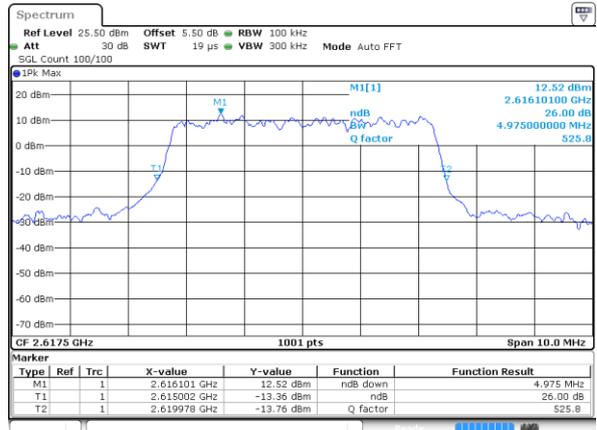
LTE Band 38

Lowest Channel / 10MHz / QPSK	Lowest Channel / 10MHz / 16QAM
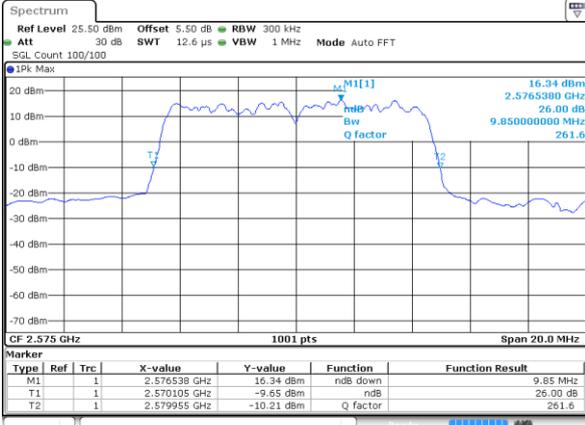
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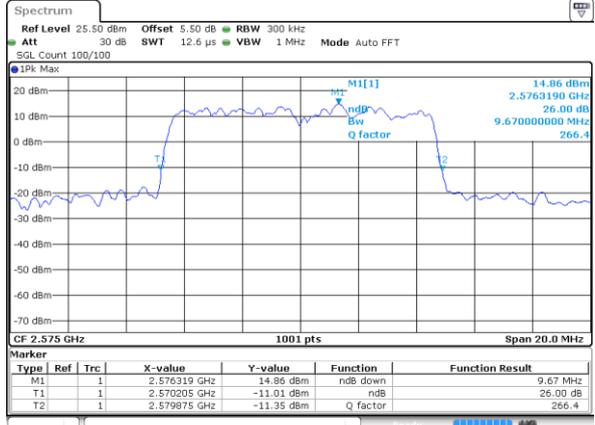
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Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM
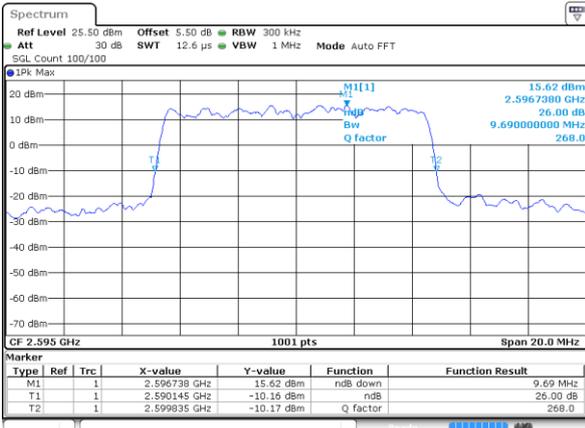
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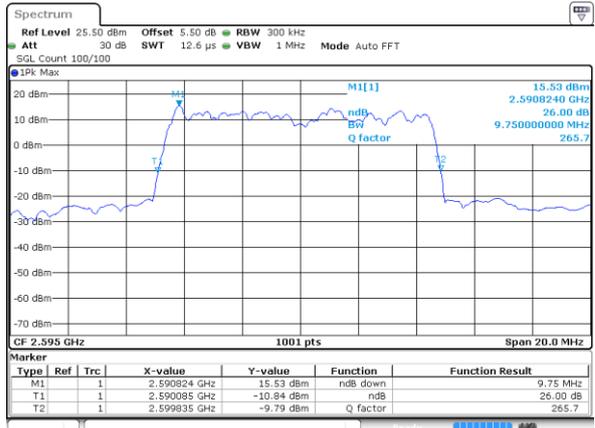
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Highest Channel / 10MHz / QPSK	Highest Channel / 10MHz / 16QAM
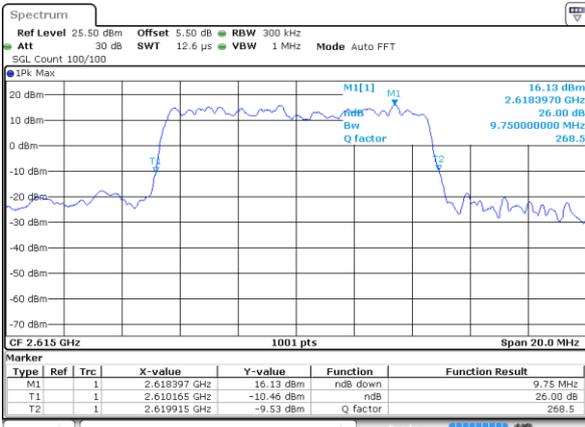
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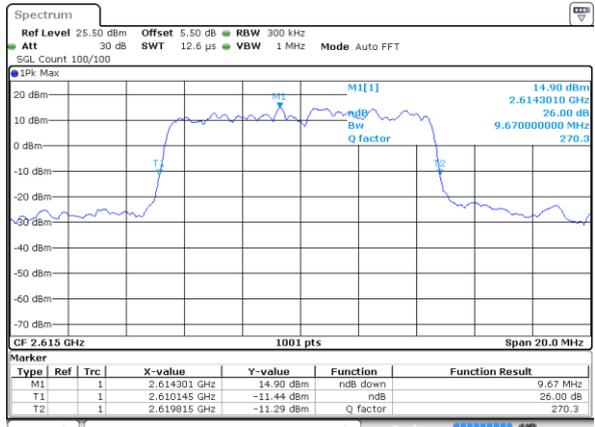
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LTE Band 38	
Lowest Channel / 15MHz / QPSK	**Lowest Channel / 15MHz / 16QAM**
Middle Channel / 15MHz / QPSK	**Middle Channel / 15MHz / 16QAM**
Highest Channel / 15MHz / QPSK	**Highest Channel / 15MHz / 16QAM**
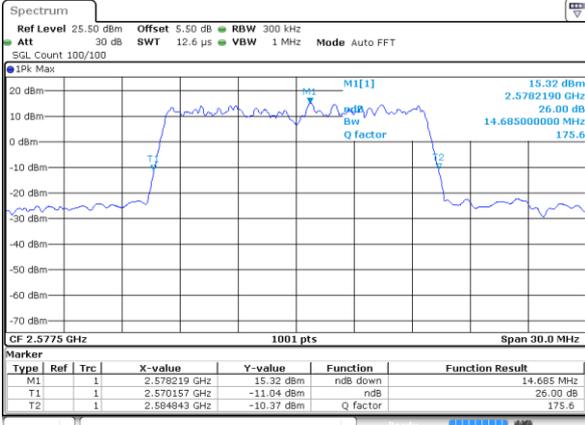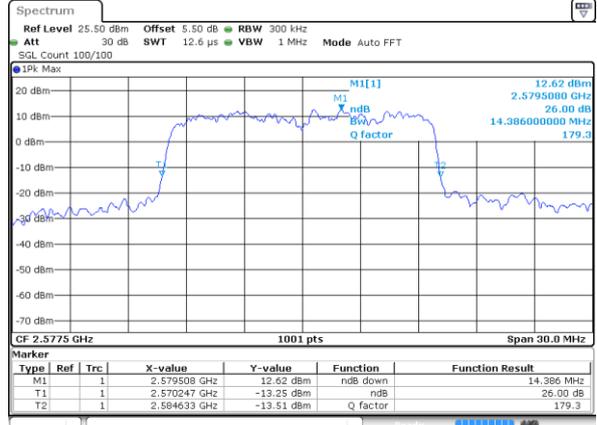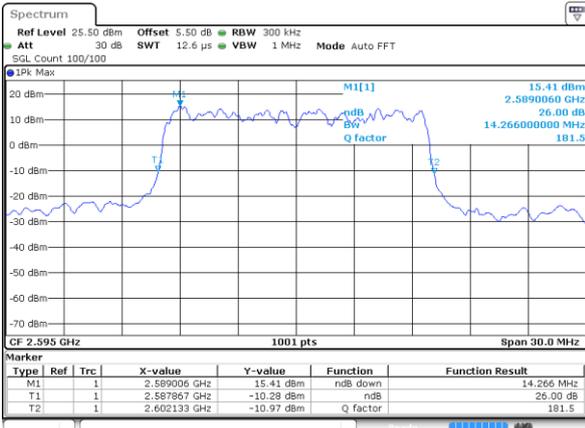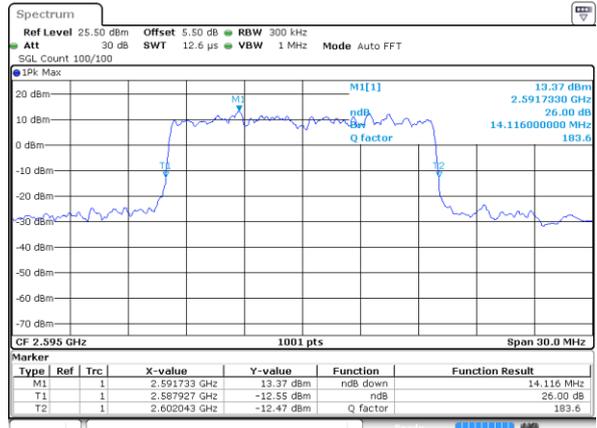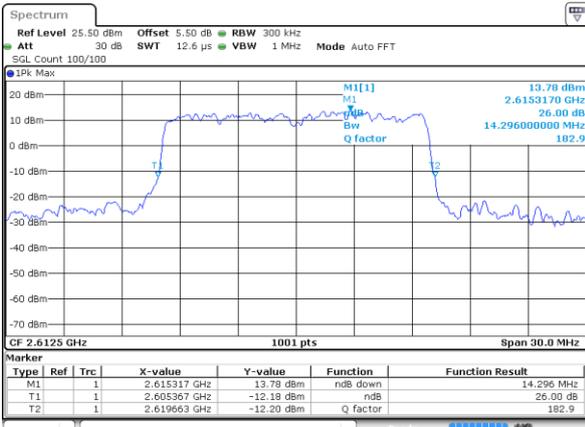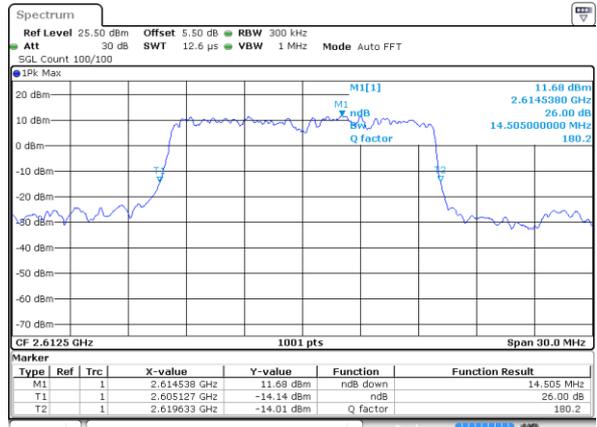
LTE Band 38	
Lowest Channel / 20MHz / QPSK	**Lowest Channel / 20MHz / 16QAM**
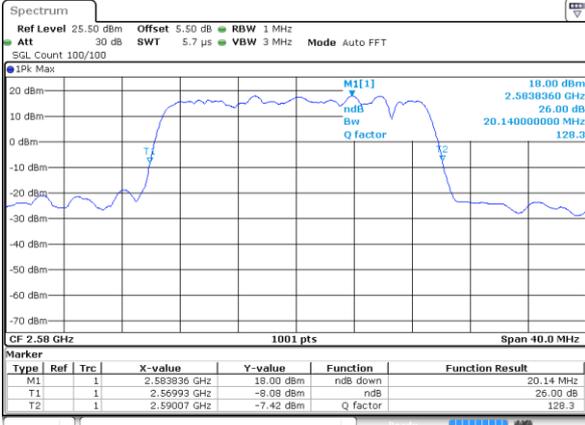
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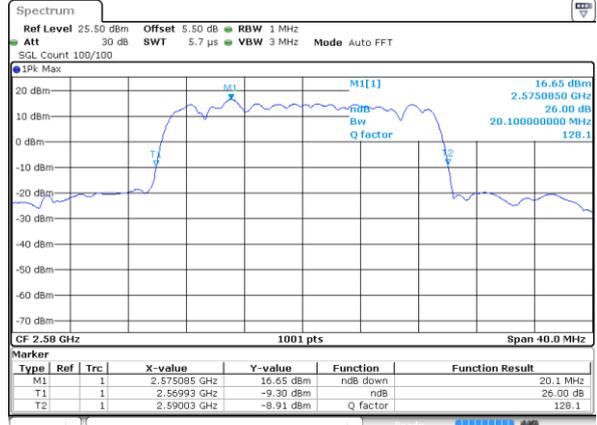
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Middle Channel / 20MHz / QPSK	**Middle Channel / 20MHz / 16QAM**
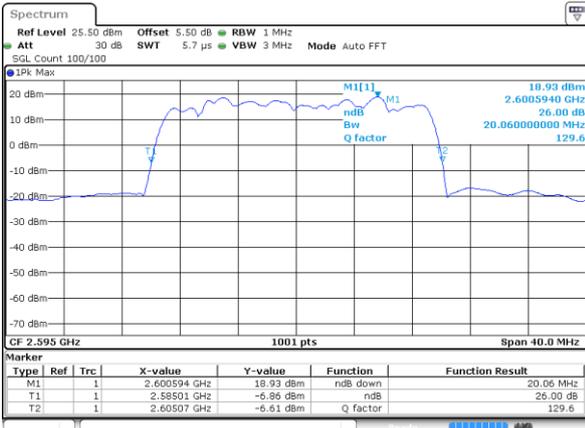
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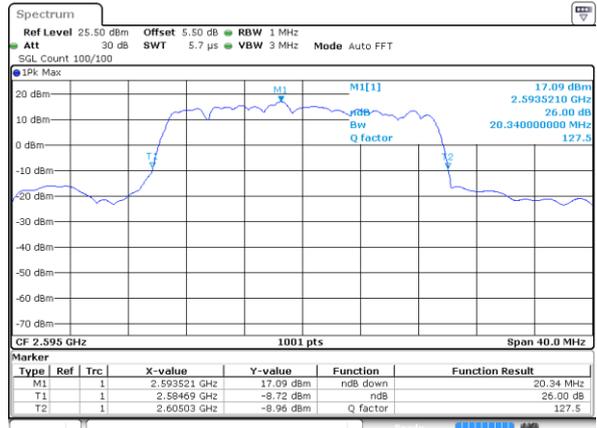
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Highest Channel / 20MHz / QPSK	**Highest Channel / 20MHz / 16QAM**
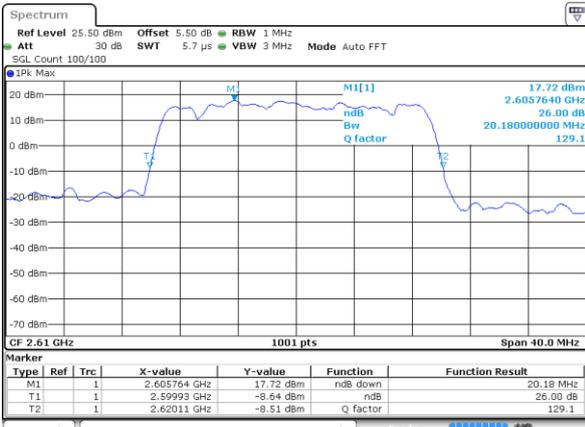
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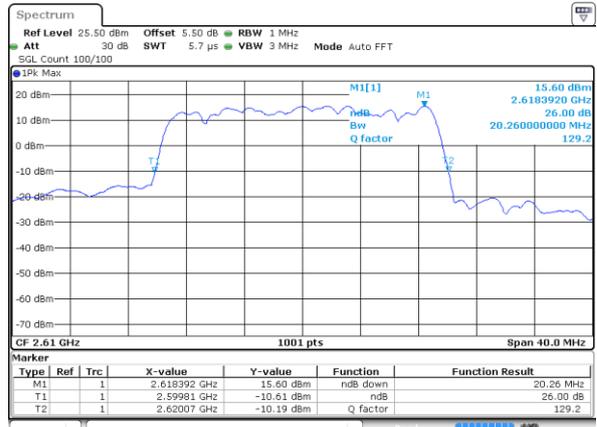
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LTE Band 38

Lowest Channel / 5MHz / 64QAM

Date: 21.DEC.2018 15:55:21

Lowest Channel / 10MHz / 64QAM

Date: 21.DEC.2018 15:56:22

Middle Channel / 5MHz / 64QAM

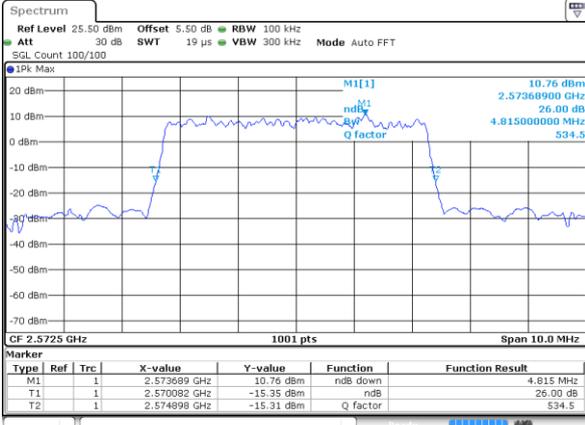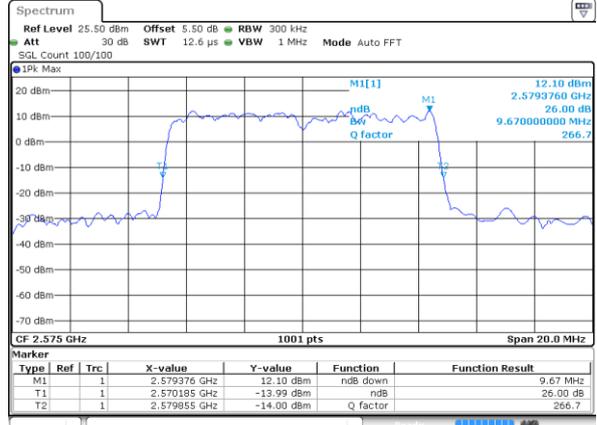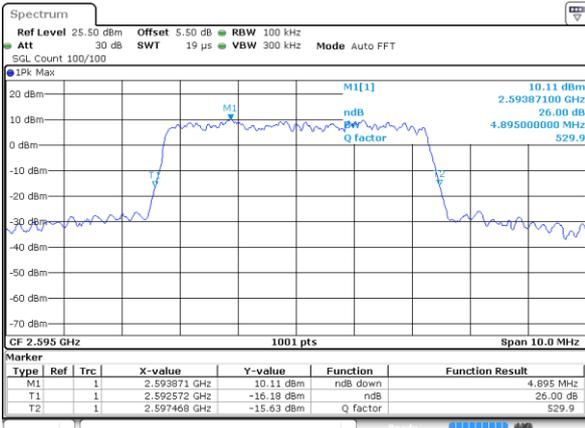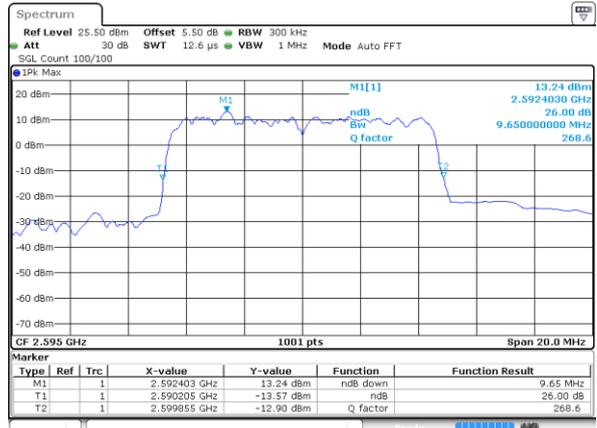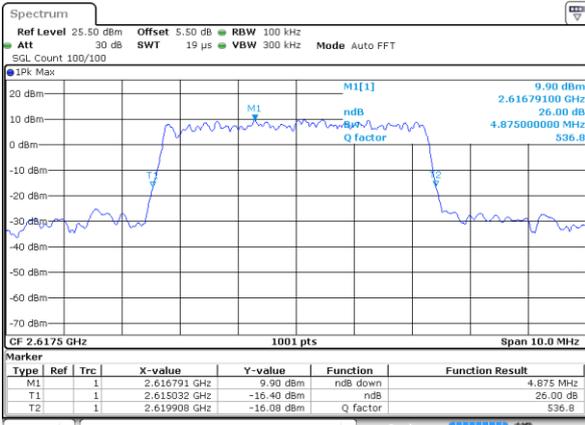Date: 21.DEC.2018 15:55:41
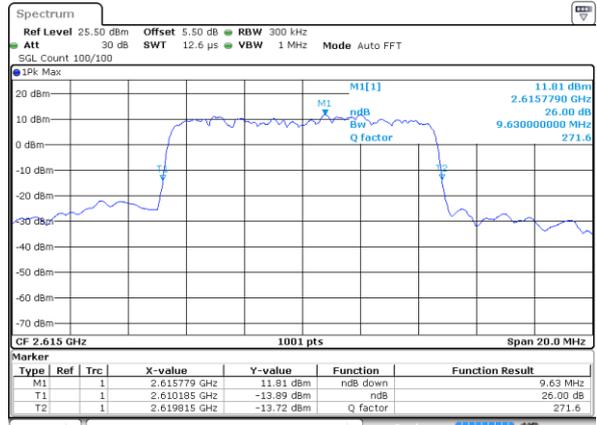
Middle Channel / 10MHz / 64QAM

Date: 21.DEC.2018 15:56:42

Highest Channel / 5MHz / 64QAM

Date: 21.DEC.2018 15:56:01

Highest Channel / 10MHz / 64QAM

Date: 21.DEC.2018 15:57:02

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Page Number : A161 of A452
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