3.5 Conducted Band Edge Measurement

3.5.1   Description of Conducted Band Edge Measurement

24.238 (a) for Band 2

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (h) for Band 4

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (m)(4) for Band 7

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.
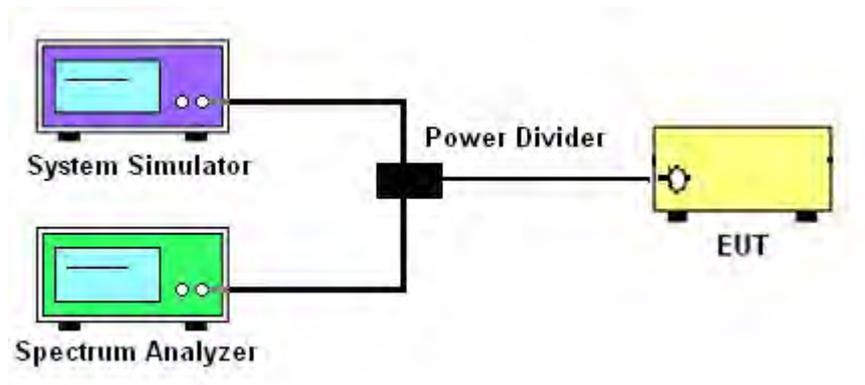
3.5.2   Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with RMS detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
5. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

    = P(W)- [43 + 10log(P)] (dB)

    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)

    = -13dBm.

    <For Band 7>

   The limit line is derived from 55+ 10log(P)dB below the transmitter power P(Watts)

    = P(W)- [55 + 10log(P)] (dB)

    = [30 + 10log(P)] (dBm) - [55 + 10log(P)] (dB)

    = -25dBm.

3.5.4 Test Setup

SPORTON INTERNATIONAL (KUNSHAN) INC.   Page Number   : 90 of 228
TEL : 86-0512-5790-0158   Report Issued Date : Feb. 11, 2015
FAX : 86-0512-5790-0958   Report Version   : Rev. 01
FCC ID : SRQ-BLADEA430

3.5.5   Test Result (Plots) of Conducted Band Edge

Band :	LTE Band 2	Band Width :	1.4MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Date: 12.JAN.2015 13:59:32

Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0

Date: 12.JAN.2015 14:03:45

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90977 GHz	18.61 dBm	-11.39 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91001 GHz	-26.31 dBm	-13.31 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-39.46 dBm	-26.46 dB

Date: 12.JAN.2015 14:08:57

Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90898 GHz	10.81 dBm	-19.19 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91000 GHz	-32.31 dBm	-19.31 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91104 GHz	-23.81 dBm	-10.81 dB

Date: 12.JAN.2015 14:05:02

Band :	LTE Band 2	**Band Width :**	1.4MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0

Spurious Emissions					
Range Low	**Range Up**	**RBW**	**Frequency**	**Power Abs**	**ΔLimit**
1.840 GHz	1.849 GHz	1.000 MHz	1.84867 GHz	-38.98 dBm	-25.98 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.84999 GHz	-26.13 dBm	-13.13 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85024 GHz	18.00 dBm	-12.00 dB

Date: 12.JAN.2015 14:01:12

Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0

Spurious Emissions					
Range Low	**Range Up**	**RBW**	**Frequency**	**Power Abs**	**ΔLimit**
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-25.22 dBm	-12.22 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.84998 GHz	-31.77 dBm	-18.77 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85030 GHz	9.71 dBm	-20.29 dB

Date: 12.JAN.2015 14:02:25

Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90970 GHz	18.07 dBm	-11.93 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91000 GHz	-26.79 dBm	-13.79 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91133 GHz	-38.88 dBm	-25.88 dB

Date: 12.JAN.2015 14:07:40

Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90942 GHz	10.12 dBm	-19.88 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91005 GHz	-32.86 dBm	-19.86 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91104 GHz	-24.14 dBm	-11.14 dB

Date: 12.JAN.2015 14:06:28

Band :	LTE Band 2	Band Width :	3MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Spectrum

Ref Level 23.00 dBm   Offset 5.00 dB   Mode Auto Sweep
SGL Count 100/100

● 1 AvgPwr

| 20 dBm | Limit Check | PASS |
| | Line _SPURIOUS_LINE_ABS_ | PASS |

10 dBm
0 dBm
-10 dBm
_SPURIOUS_LINE_ABS_
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm

Start 1.84 GHz   3003 pts   Stop 1.853 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-38.67 dBm	-25.67 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-20.54 dBm	-7.54 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85022 GHz	18.47 dBm	-11.53 dB

Date: 12.JAN.2015 14:10:06

Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0

Spectrum

Ref Level 23.00 dBm   Offset 5.00 dB   Mode Auto Sweep
SGL Count 100/100

● 1 AvgPwr

| 20 dBm | Limit Check | PASS |
| | Line _SPURIOUS_LINE_ABS_ | PASS |

10 dBm
0 dBm
-10 dBm
_SPURIOUS_LINE_ABS_
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm

Start 1.84 GHz   3003 pts   Stop 1.853 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-19.87 dBm	-6.87 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-31.28 dBm	-18.28 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85167 GHz	6.86 dBm	-23.14 dB

Date: 12.JAN.2015 14:13:00

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number   : 95 of 228
Report Issued Date : Feb. 11, 2015
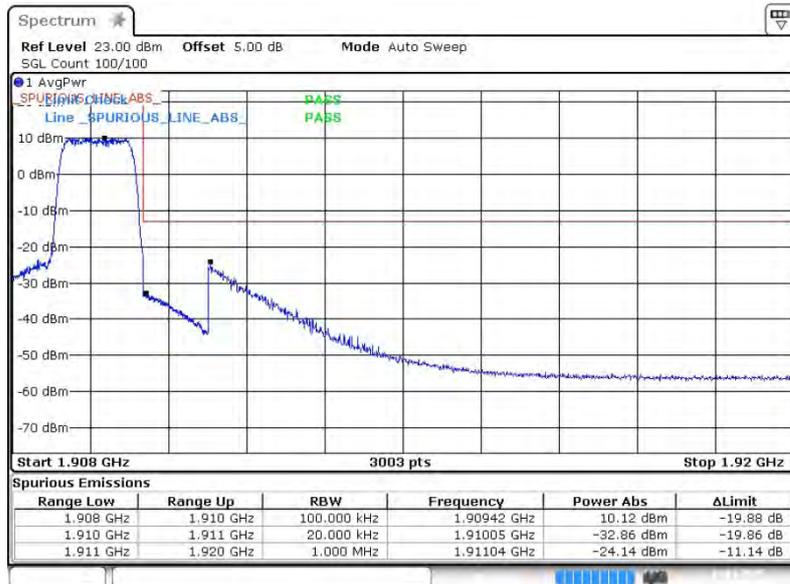Report Version   : Rev. 01

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14

Date: 12.JAN.2015 14:17:05

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0
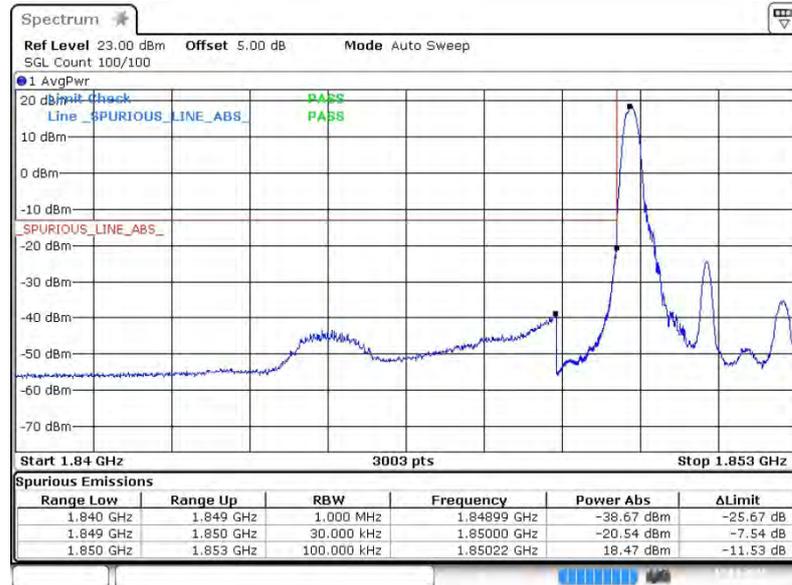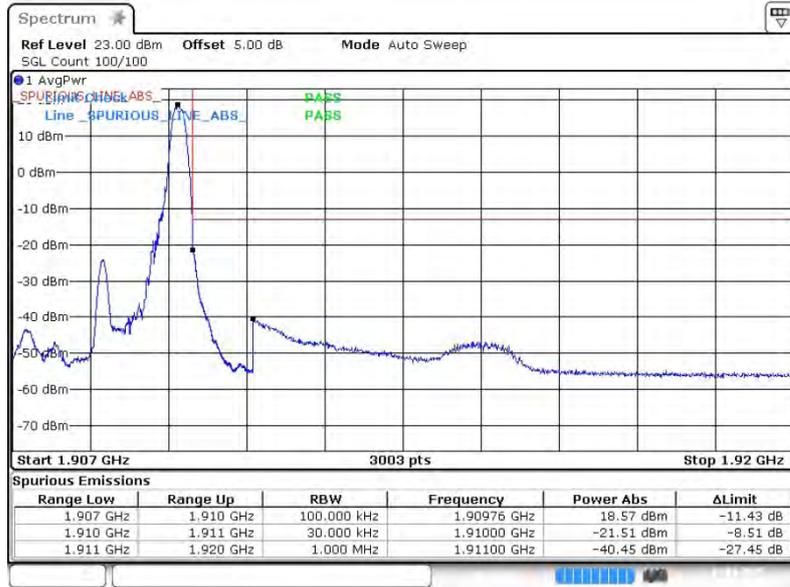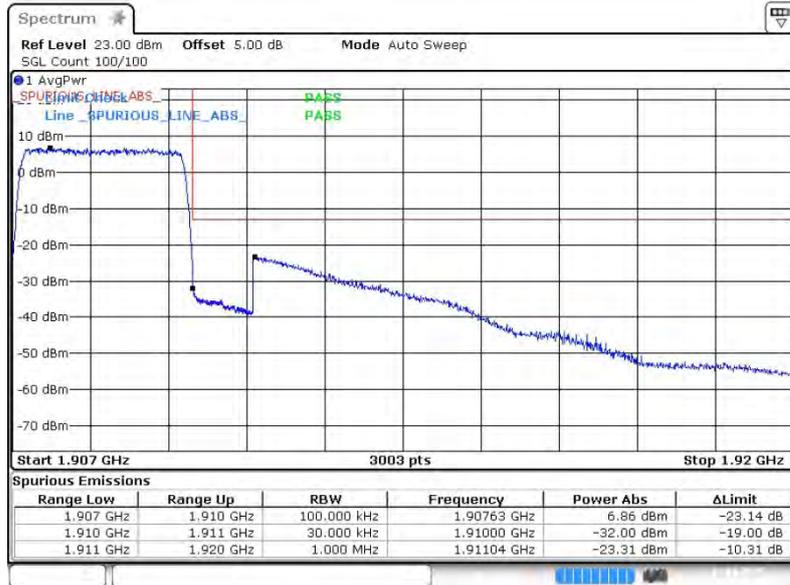

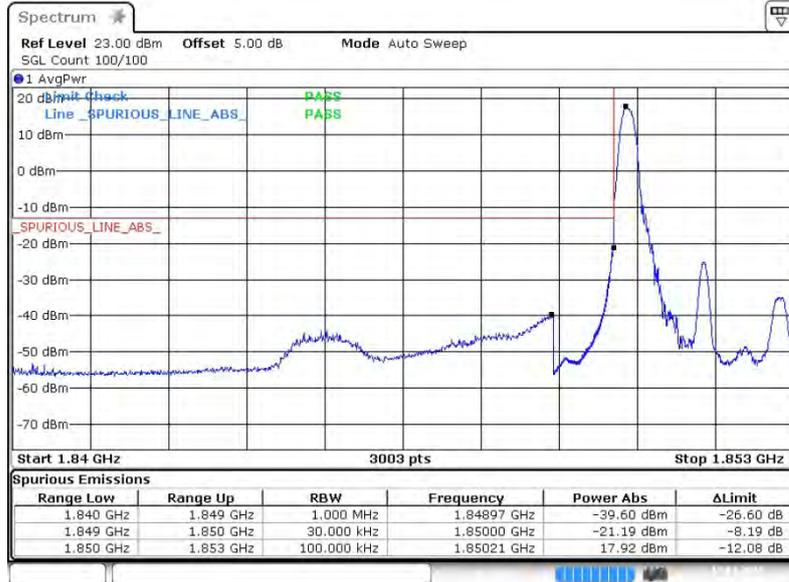Date: 12.JAN.2015 14:13:50

SPORTON INTERNATIONAL (KUNSHAN) INC.

TEL : 86-0512-5790-0158

FAX : 86-0512-5790-0958

FCC ID : SRQ-BLADEA430

Page Number   : 96 of 228

Report Issued Date : Feb. 11, 2015

Report Version   : Rev. 01

Band :	LTE Band 2	Band Width :	3MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0
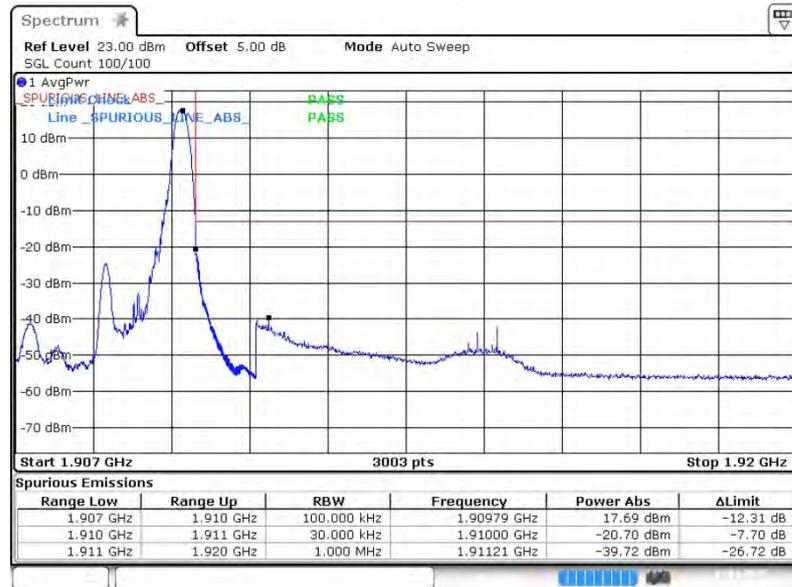

Date: 12.JAN.2015 14:11:12

Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0

Date: 12.JAN.2015 14:12:06

Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90979 GHz	17.69 dBm	-12.31 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-20.70 dBm	-7.70 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91121 GHz	-39.72 dBm	-26.72 dB

Date: 12.JAN.2015 14:16:05

Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90745 GHz	6.43 dBm	-23.57 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-32.31 dBm	-19.31 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91103 GHz	-23.02 dBm	-10.02 dB

Date: 12.JAN.2015 14:15:06

Band :	LTE Band 2	Band Width :	5MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Date: 12.JAN.2015 14:19:43

Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0
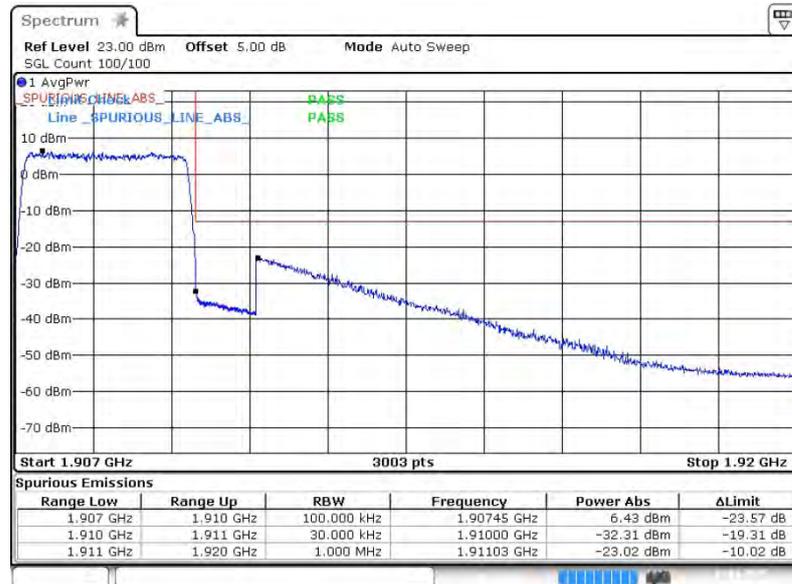

Date: 12.JAN.2015 14:22:21

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90966 GHz	18.13 dBm	−11.87 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91001 GHz	−19.17 dBm	−6.17 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91103 GHz	−37.73 dBm	−24.73 dB

Date: 12.JAN.2015 14:26:58

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

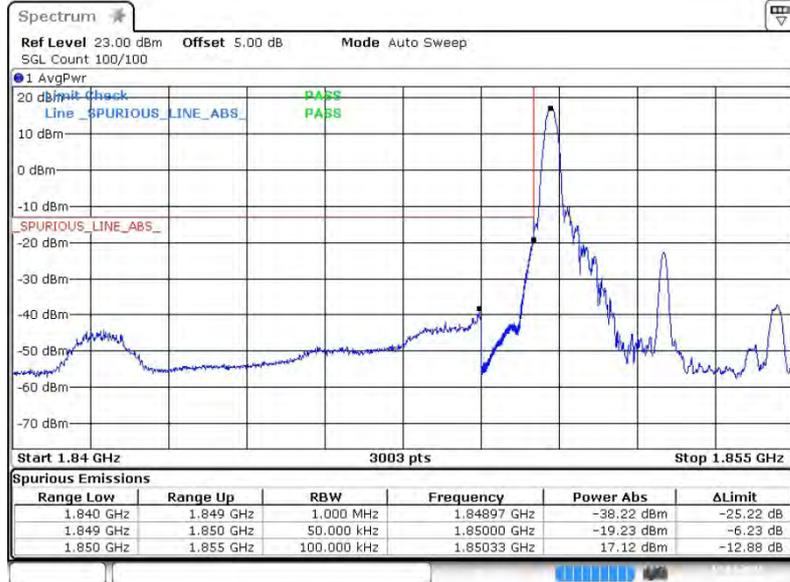| Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90553 GHz	4.19 dBm	−25.81 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	−30.28 dBm	−17.28 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	−24.19 dBm	−11.19 dB

Date: 12.JAN.2015 14:22:58

Band :	LTE Band 2	Band Width :	5MHz / 16QAM

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84897 GHz	−38.22 dBm	−25.22 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	−19.23 dBm	−6.23 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85033 GHz	17.12 dBm	−12.88 dB

Date: 12.JAN.2015 14:20:50

Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84892 GHz	−21.18 dBm	−8.18 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	−30.11 dBm	−17.11 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85435 GHz	3.40 dBm	−26.60 dB

Date: 12.JAN.2015 14:21:45

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number   : 101 of 228
Report Issued Date : Feb. 11, 2015
Report Version   : Rev. 01

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90965 GHz	17.41 dBm	-12.59 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-19.32 dBm	-6.32 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91105 GHz	-37.32 dBm	-24.32 dB

Date: 12.JAN.2015 14:25:49

Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90596 GHz	3.85 dBm	-26.15 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-31.31 dBm	-18.31 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91106 GHz	-24.32 dBm	-11.32 dB

Date: 12.JAN.2015 14:23:44

SPORTON INTERNATIONAL (KUNSHAN) INC.   Page Number : 102 of 228
TEL : 86-0512-5790-0158   Report Issued Date : Feb. 11, 2015
FAX : 86-0512-5790-0958   Report Version : Rev. 01
FCC ID : SRQ-BLADEA430

Band :	LTE Band 2	Band Width :	10MHz / QPSK

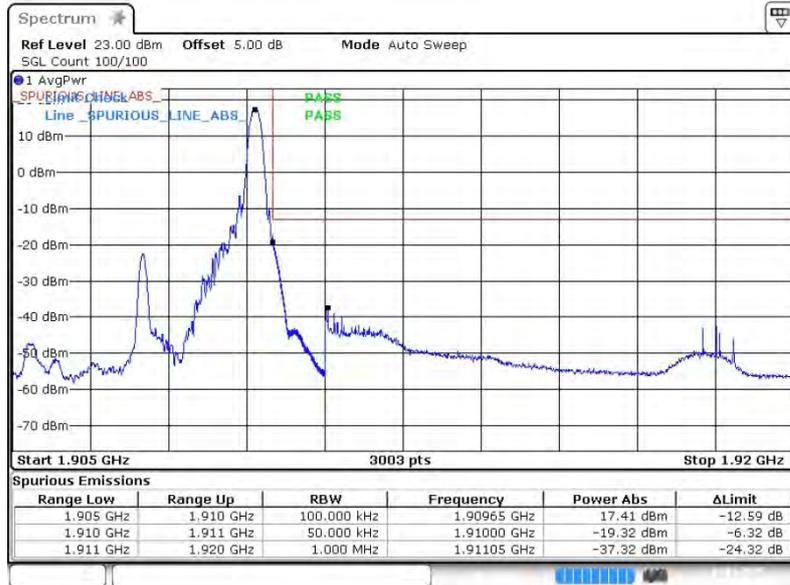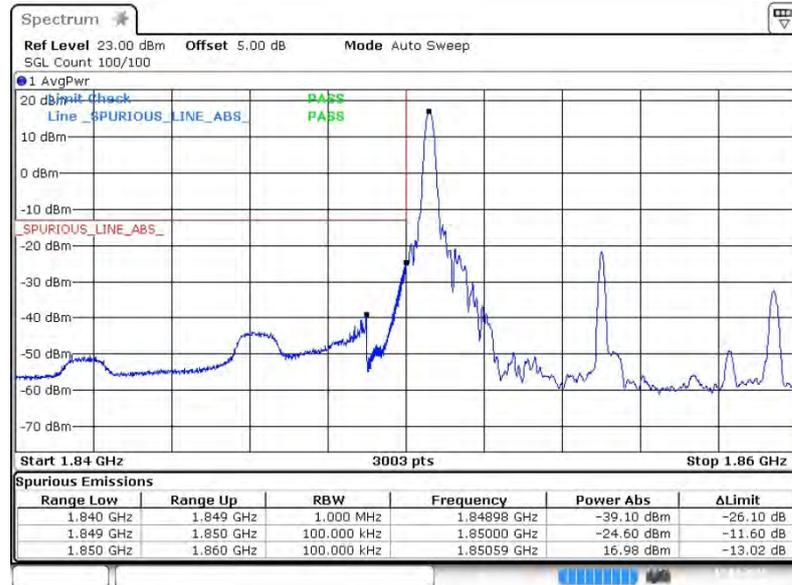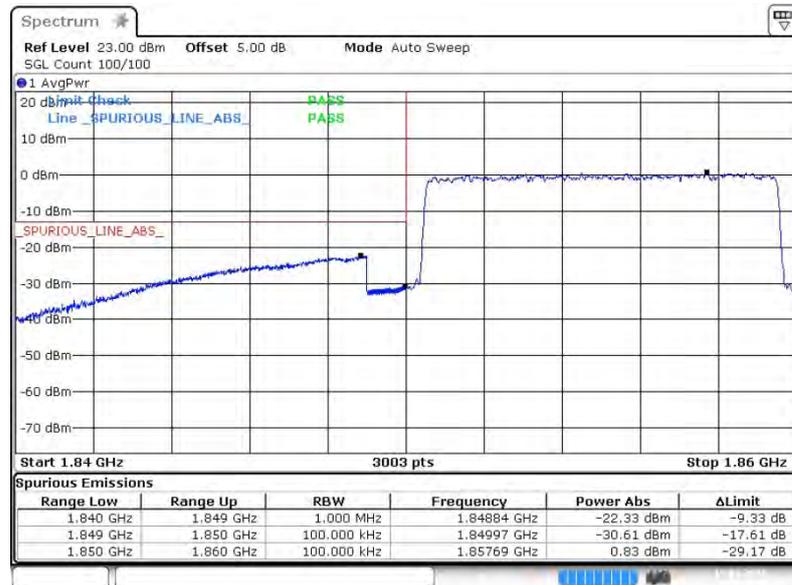**Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0**

Date: 12.JAN.2015 14:29:10

Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0
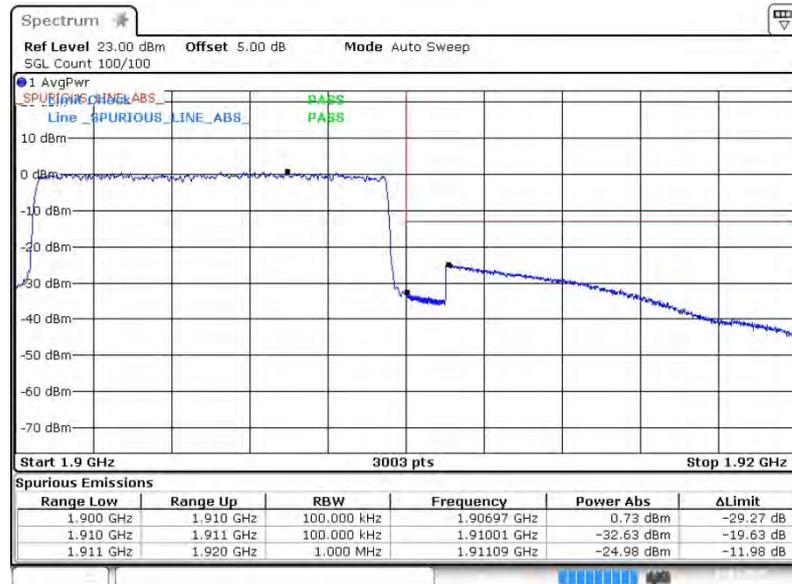

Date: 12.JAN.2015 14:34:38

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90939 GHz	16.61 dBm	-13.39 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91001 GHz	-24.80 dBm	-11.80 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91106 GHz	-41.16 dBm	-28.16 dB

Date: 12.JAN.2015 14:38:09

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

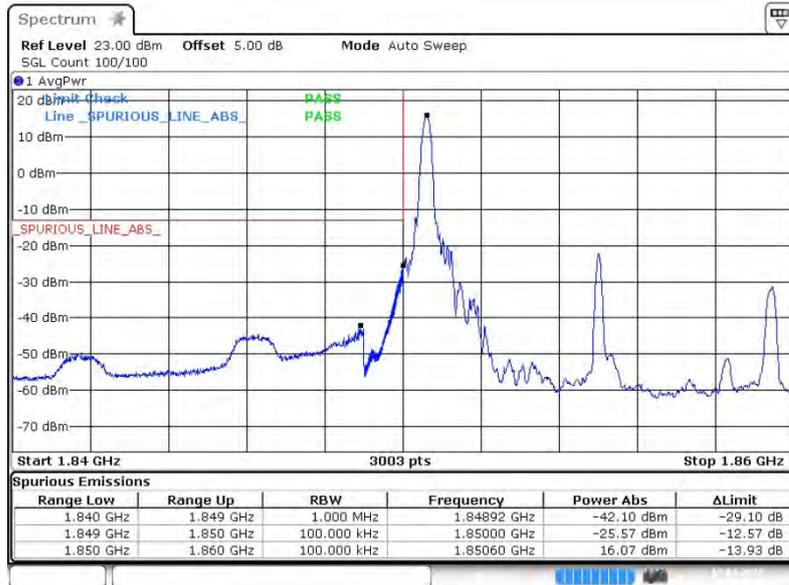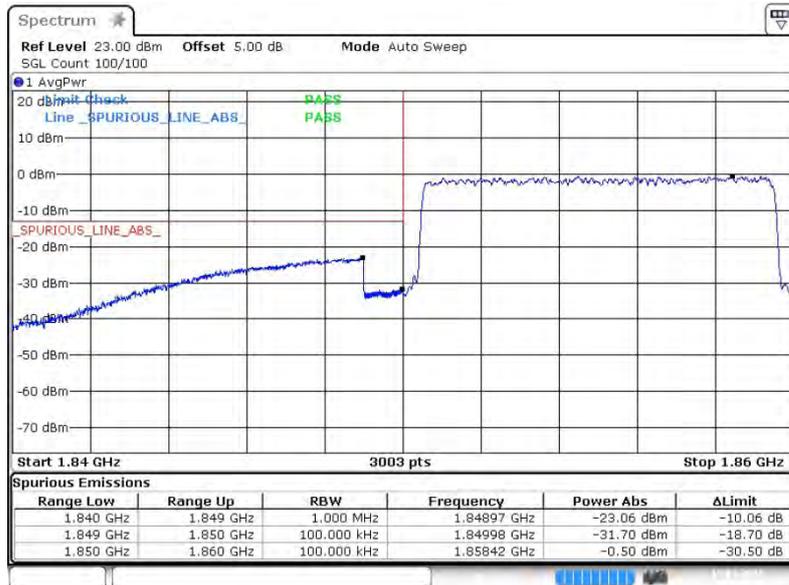| Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90697 GHz	0.73 dBm	-29.27 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91001 GHz	-32.63 dBm	-19.63 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-24.98 dBm	-11.98 dB

Date: 12.JAN.2015 14:35:14

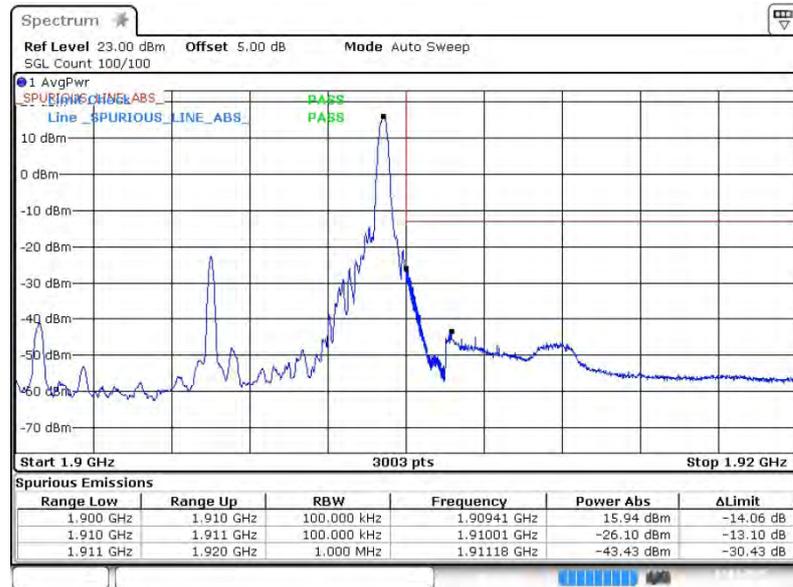| Band :	LTE Band 2	Band Width :	10MHz / 16QAM

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84892 GHz	−42.10 dBm	−29.10 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.85000 GHz	−25.57 dBm	−12.57 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85060 GHz	16.07 dBm	−13.93 dB

Date: 12.JAN.2015 14:29:40

Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84897 GHz	−23.06 dBm	−10.06 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84998 GHz	−31.70 dBm	−18.70 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85842 GHz	−0.50 dBm	−30.50 dB

Date: 12.JAN.2015 14:32:14

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90941 GHz	15.94 dBm	-14.06 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91001 GHz	-26.10 dBm	-13.10 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91118 GHz	-43.43 dBm	-30.43 dB

Date: 12.JAN.2015 14:37:39

Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90265 GHz	1.12 dBm	-28.88 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91002 GHz	-32.56 dBm	-19.56 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91108 GHz	-24.89 dBm	-11.89 dB

Date: 12.JAN.2015 14:36:55

Band :	LTE Band 2	Band Width :	15MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Date: 12.JAN.2015 14:38:47

Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0
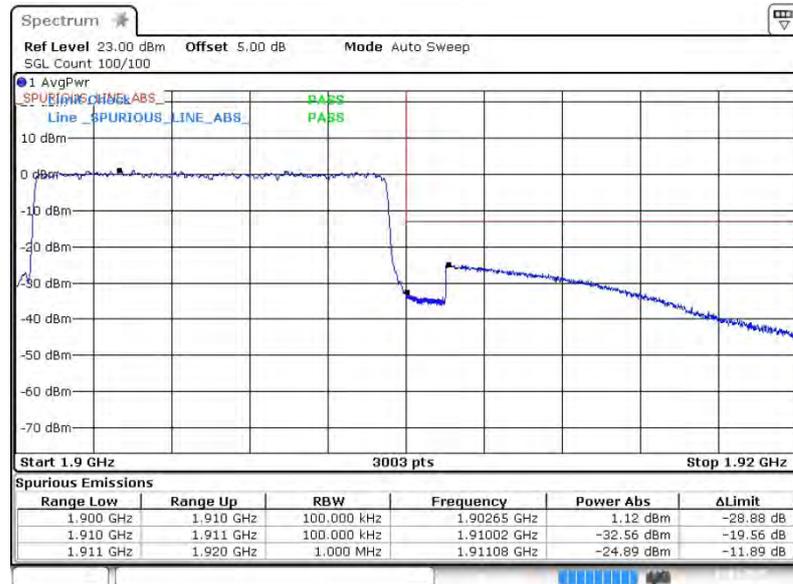

Date: 12.JAN.2015 14:40:51

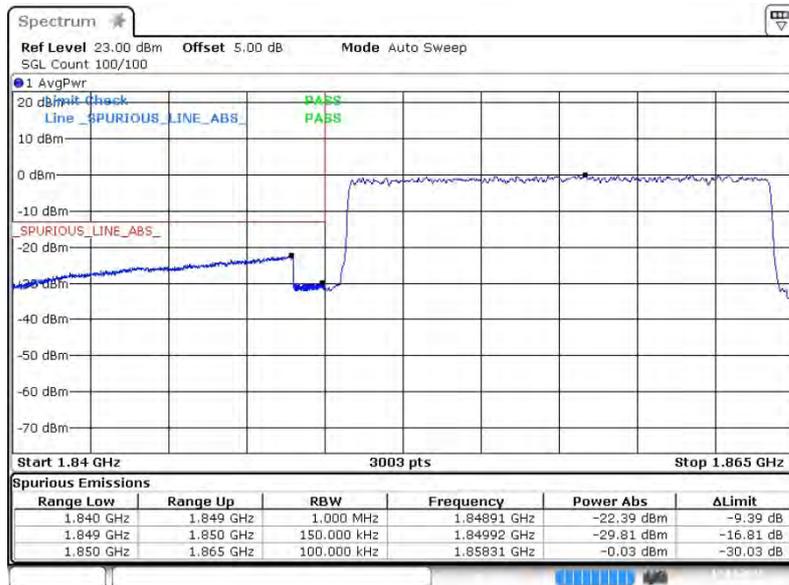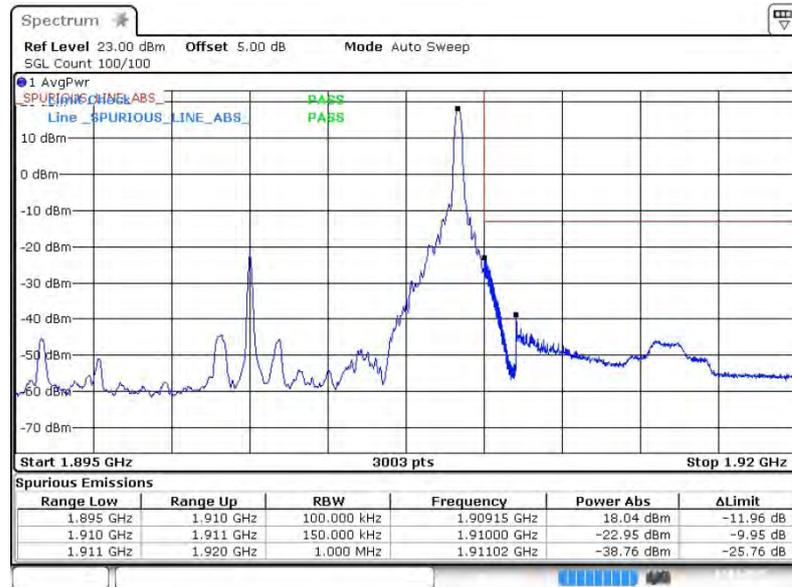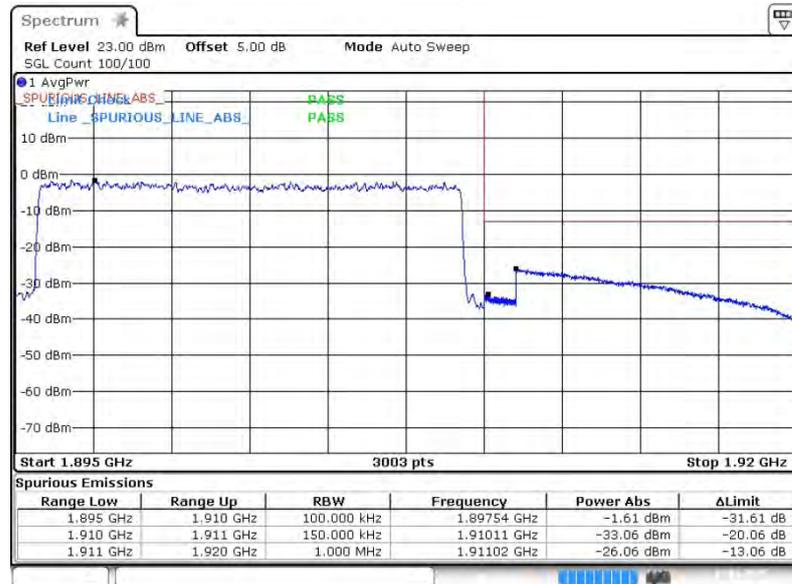### Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90915 GHz	18.04 dBm	-11.96 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91000 GHz	-22.95 dBm	-9.95 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91102 GHz	-38.76 dBm	-25.76 dB

Date: 12.JAN.2015 14:42:30

Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.89754 GHz	-1.61 dBm	-31.61 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91011 GHz	-33.06 dBm	-20.06 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91102 GHz	-26.06 dBm	-13.06 dB

Date: 12.JAN.2015 14:41:10

Band :	LTE Band 2	Band Width :	15MHz / 16QAM

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Date: 12.JAN.2015 14:39:18

Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0

Date: 12.JAN.2015 14:40:04

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number : 109 of 228
Report Issued Date : Feb. 11, 2015
Report Version : Rev. 01

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 74

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90917 GHz	17.56 dBm	-12.44 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91000 GHz	-23.23 dBm	-10.23 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91137 GHz	-40.12 dBm	-27.12 dB

Date: 12.JAN.2015 14:42:02

Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0

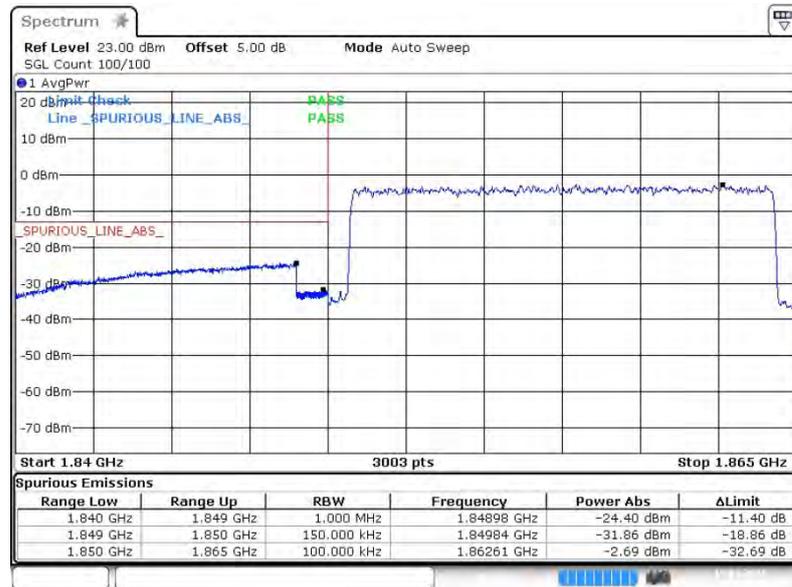| Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.89621 GHz	-0.29 dBm	-30.29 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91000 GHz	-32.80 dBm	-19.80 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-25.99 dBm	-12.99 dB

Date: 12.JAN.2015 14:41:29

Band :	LTE Band 2	Band Width :	20MHz / QPSK

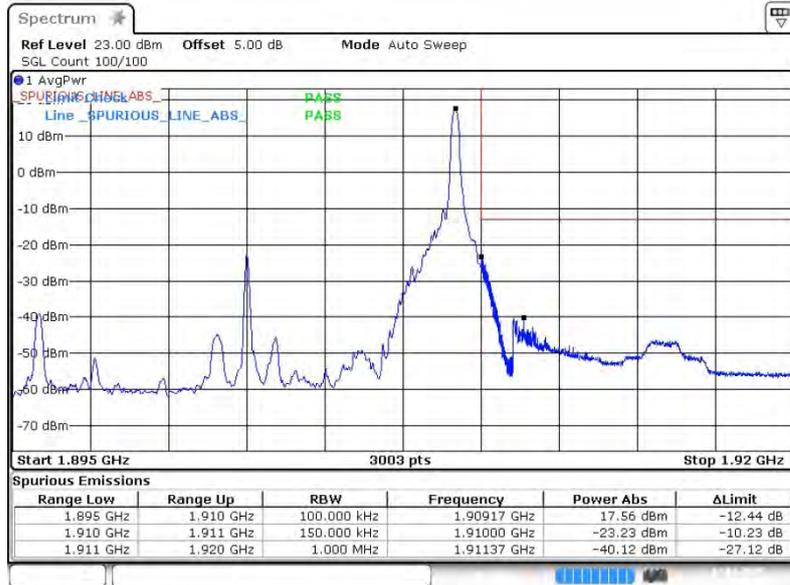**Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0**

Date: 12.JAN.2015 14:43:11

Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0
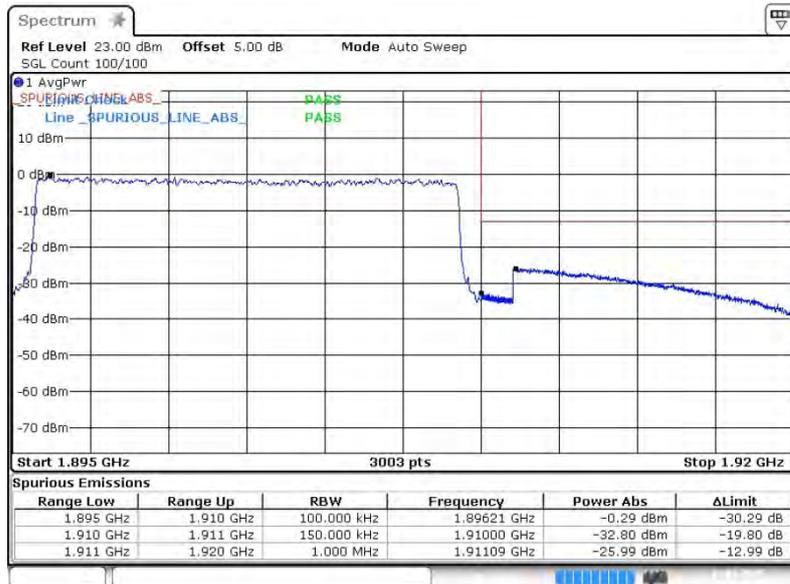

Date: 12.JAN.2015 14:53:22

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number : 111 of 228
Report Issued Date : Feb. 11, 2015
Report Version : Rev. 01

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90891 GHz	17.07 dBm	-12.93 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91002 GHz	-37.92 dBm	-24.92 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91134 GHz	-46.03 dBm	-33.03 dB

Date: 12.JAN.2015 15:02:31

Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.89147 GHz	-0.64 dBm	-30.64 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91004 GHz	-31.79 dBm	-18.79 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91107 GHz	-25.69 dBm	-12.69 dB

Date: 12.JAN.2015 14:53:59

Band :	LTE Band 2	**Band Width :**	20MHz / 16QAM

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Date: 12.JAN.2015 14:43:35

Lower Band Edge Plot for 16QAM-RB Size 100, RB Offset 0

Date: 12.JAN.2015 14:51:06
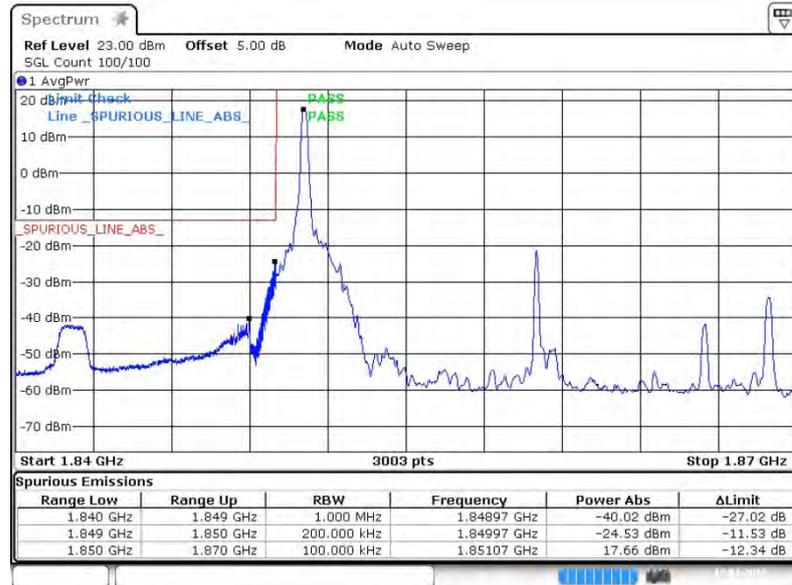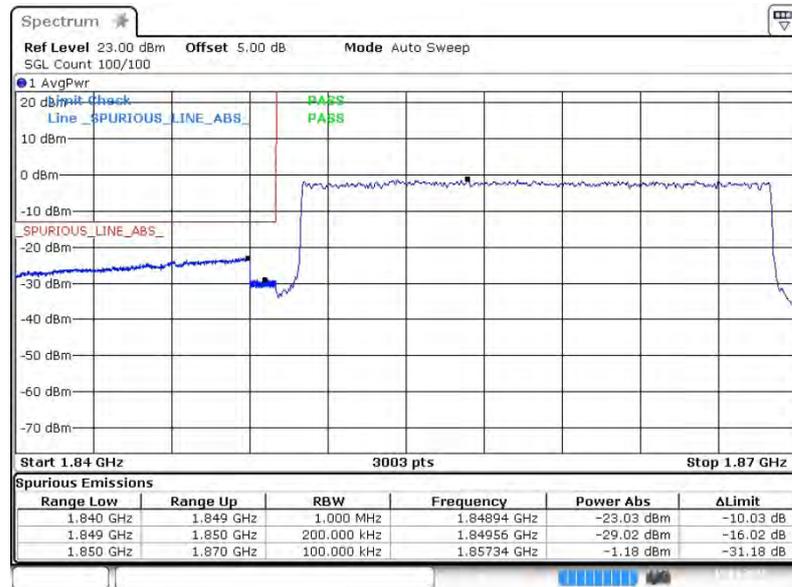
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 99

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90891 GHz	17.55 dBm	−12.45 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91001 GHz	−23.88 dBm	−10.88 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91103 GHz	−40.90 dBm	−27.90 dB

Date: 12.JAN.2015 15:00:42

Higher Band Edge Plot for 16QAM-RB Size 100, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.89183 GHz	−3.35 dBm	−33.35 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91008 GHz	−34.24 dBm	−21.24 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91112 GHz	−27.55 dBm	−14.55 dB

Date: 12.JAN.2015 14:59:18

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number : 114 of 228
Report Issued Date : Feb. 11, 2015
Report Version : Rev. 01

Band :	LTE Band 4	Band Width :	1.4MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0
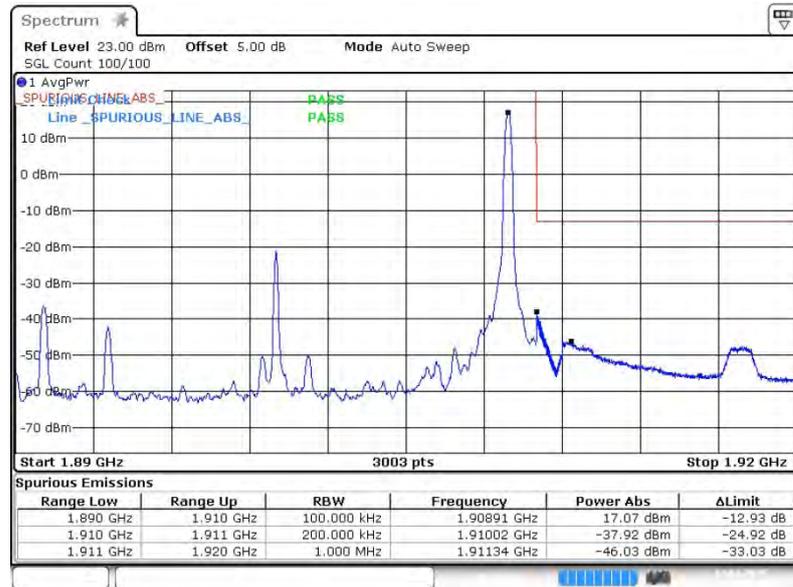

Date: 12.JAN.2015 11:52:50

Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0
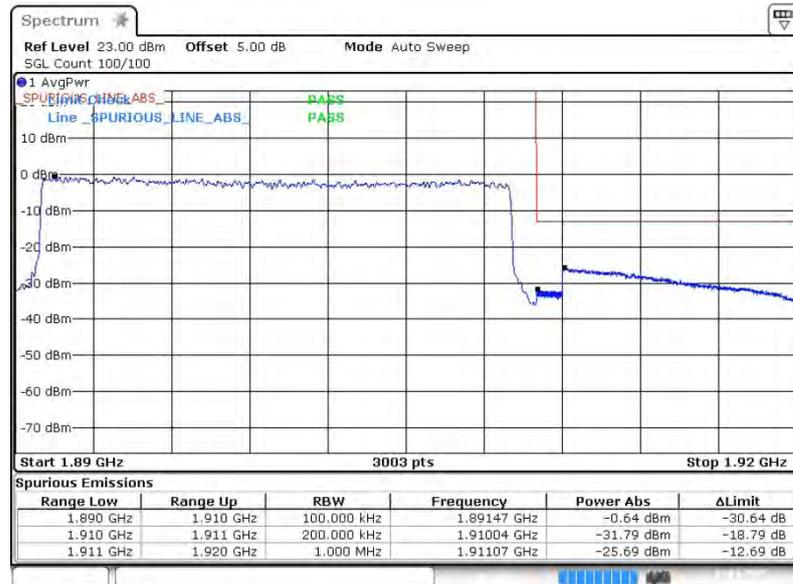

Date: 12.JAN.2015 11:57:18

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5

Date: 12.JAN.2015 12:03:40
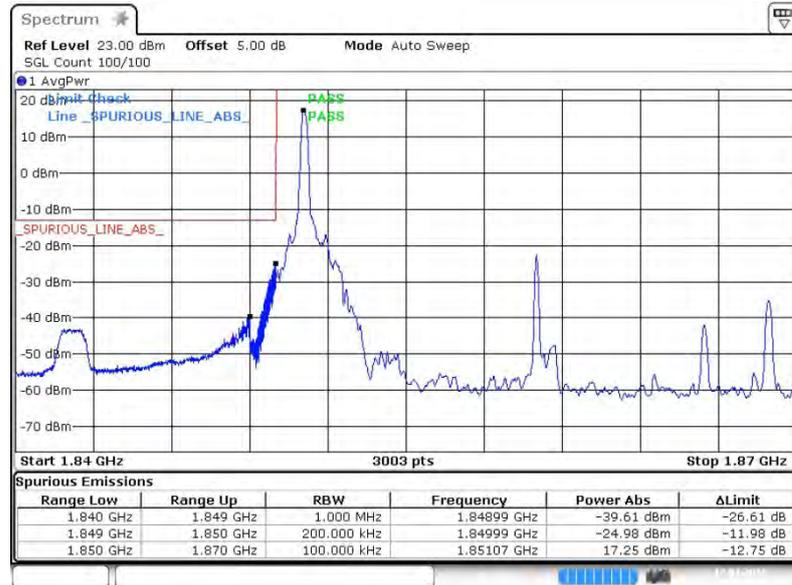
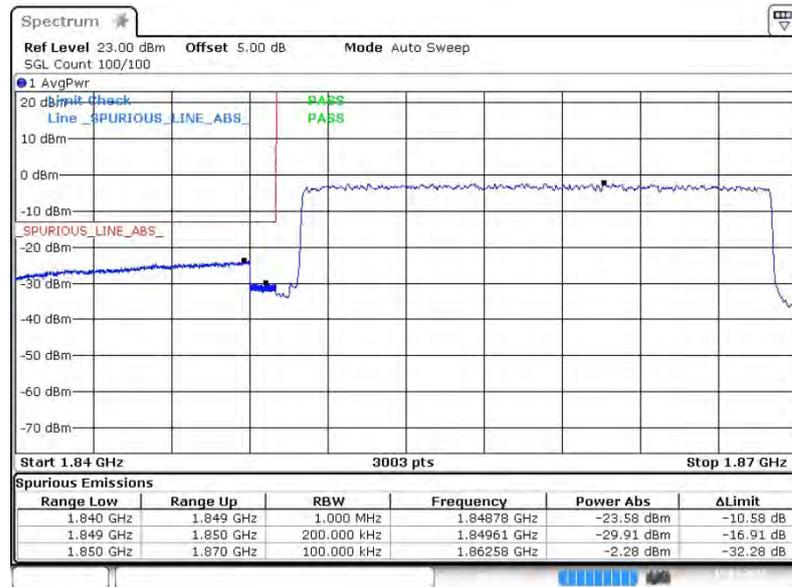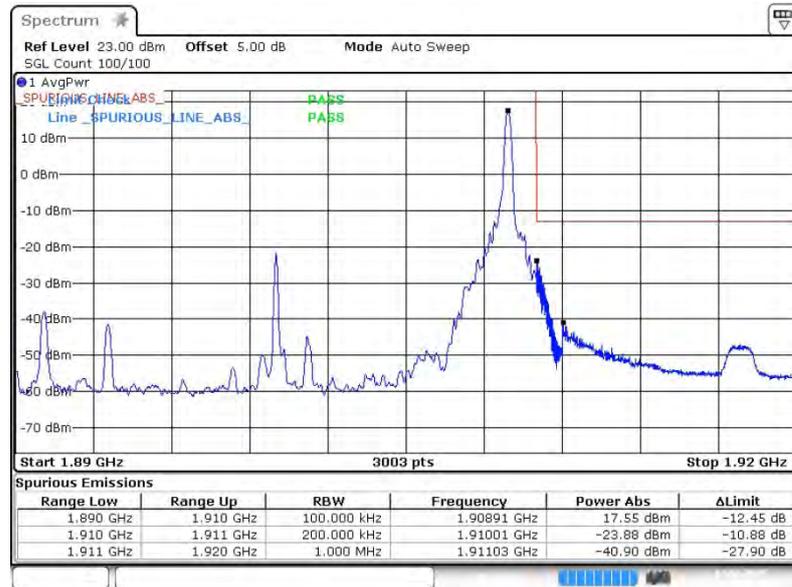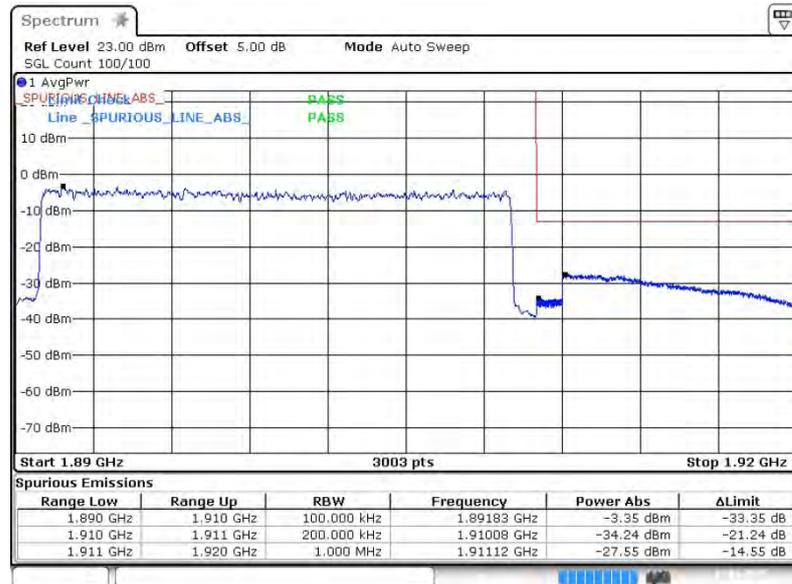## Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0

Date: 12.JAN.2015 11:58:41

Band :	LTE Band 4	Band Width :	1.4MHz / 16QAM

Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70811 GHz	−36.69 dBm	−23.69 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.70999 GHz	−25.05 dBm	−12.05 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71025 GHz	18.88 dBm	−11.12 dB

Date: 12.JAN.2015 11:54:05

Lower Band Edge Plot for 16QAM-RB Size 6, RB Offset 0

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70896 GHz	−24.13 dBm	−11.13 dB
1.709 GHz	1.710 GHz	20.000 kHz	1.70998 GHz	−31.57 dBm	−18.57 dB
1.710 GHz	1.712 GHz	100.000 kHz	1.71067 GHz	10.49 dBm	−19.51 dB

Date: 12.JAN.2015 11:55:55

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 5

Spectrum					
Ref Level 23.00 dBm	Offset 5.00 dB		Mode Auto Sweep		
SGL Count 100/100					

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75474 GHz	18.73 dBm	−11.27 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75501 GHz	−24.85 dBm	−11.85 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75658 GHz	−33.25 dBm	−20.25 dB

Date: 12.JAN.2015 12:02:18

Higher Band Edge Plot for 16QAM-RB Size 6, RB Offset 0

Spectrum					
Ref Level 23.00 dBm	Offset 5.00 dB		Mode Auto Sweep		
SGL Count 100/100					

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.753 GHz	1.755 GHz	100.000 kHz	1.75390 GHz	11.00 dBm	−19.00 dB
1.755 GHz	1.756 GHz	20.000 kHz	1.75502 GHz	−30.74 dBm	−17.74 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75607 GHz	−24.25 dBm	−11.25 dB

Date: 12.JAN.2015 12:00:34

Band :	LTE Band 4	Band Width :	3MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Date: 12.JAN.2015 12:04:42

Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0
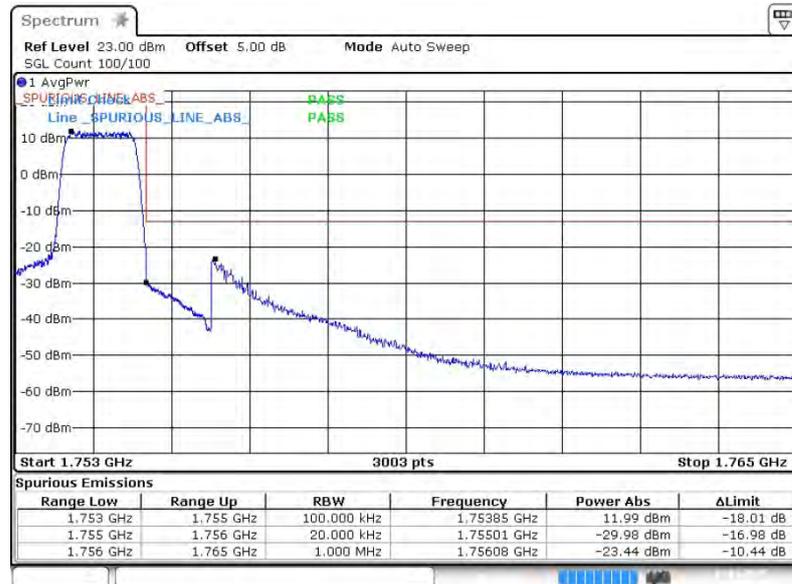

Date: 12.JAN.2015 13:29:18

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number   : 119 of 228
Report Issued Date : Feb. 11, 2015
Report Version   : Rev. 01

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75478 GHz	19.72 dBm	-10.28 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-20.47 dBm	-7.47 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75603 GHz	-39.85 dBm	-26.85 dB

Date: 12.JAN.2015 13:33:15

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0

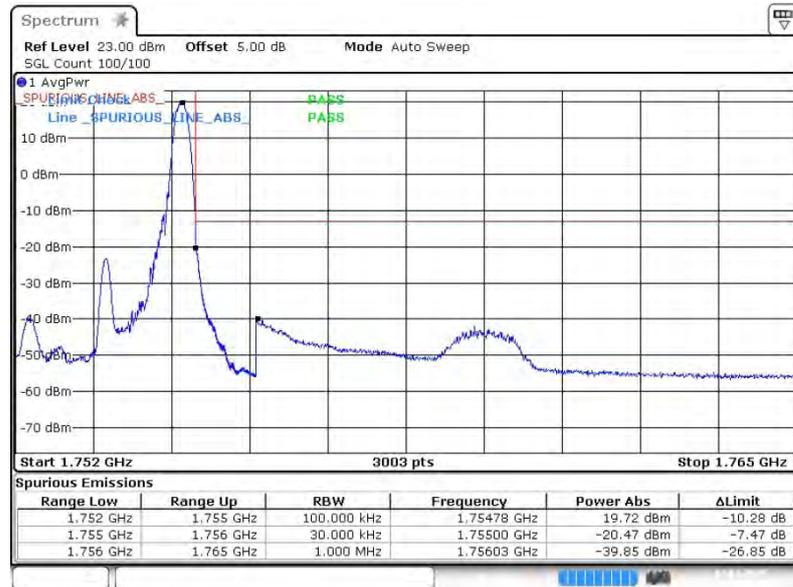| Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75402 GHz	7.75 dBm	-22.25 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-29.95 dBm	-16.95 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75602 GHz	-20.67 dBm	-7.67 dB

Date: 12.JAN.2015 13:30:18

Band :	LTE Band 4	Band Width :	3MHz / 16QAM

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Spurious Emissions

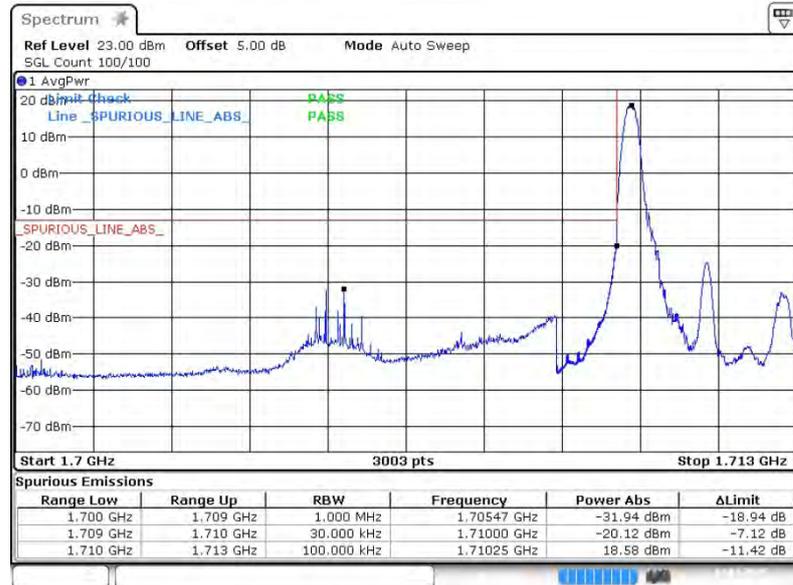| Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70547 GHz	-31.94 dBm	-18.94 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-20.12 dBm	-7.12 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71025 GHz	18.58 dBm	-11.42 dB

Date: 12.JAN.2015 13:34:21

Lower Band Edge Plot for 16QAM-RB Size 15, RB Offset 0

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70897 GHz	-20.93 dBm	-7.93 dB
1.709 GHz	1.710 GHz	30.000 kHz	1.71000 GHz	-31.48 dBm	-18.48 dB
1.710 GHz	1.713 GHz	100.000 kHz	1.71217 GHz	7.06 dBm	-22.94 dB

Date: 12.JAN.2015 13:28:37

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 14

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75473 GHz	19.01 dBm	-10.99 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-20.50 dBm	-7.50 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75956 GHz	-37.25 dBm	-24.25 dB

Date: 12.JAN.2015 13:31:59

Higher Band Edge Plot for 16QAM-RB Size 15, RB Offset 0

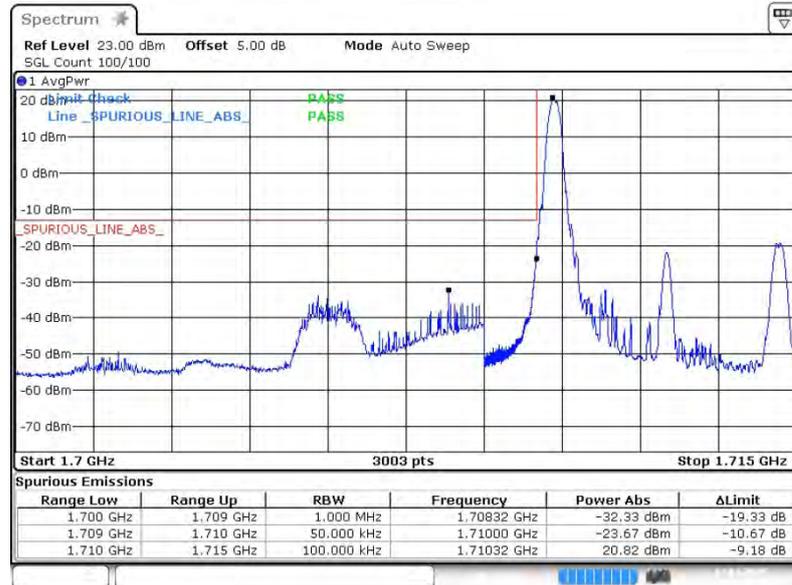| Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.752 GHz	1.755 GHz	100.000 kHz	1.75245 GHz	7.10 dBm	-22.90 dB
1.755 GHz	1.756 GHz	30.000 kHz	1.75500 GHz	-30.83 dBm	-17.83 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75602 GHz	-21.51 dBm	-8.51 dB

Date: 12.JAN.2015 13:31:05

Band :	LTE Band 4	Band Width :	5MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70832 GHz	−32.33 dBm	−19.33 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	−23.67 dBm	−10.67 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71032 GHz	20.82 dBm	−9.18 dB

Date: 12.JAN.2015 21:11:44

Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70890 GHz	−27.90 dBm	−14.90 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	−30.73 dBm	−17.73 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71281 GHz	6.50 dBm	−23.50 dB

Date: 12.JAN.2015 21:14:14

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75466 GHz	19.79 dBm	-10.21 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75500 GHz	-18.17 dBm	-5.17 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75601 GHz	-36.38 dBm	-23.38 dB

Date: 12.JAN.2015 13:41:11

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

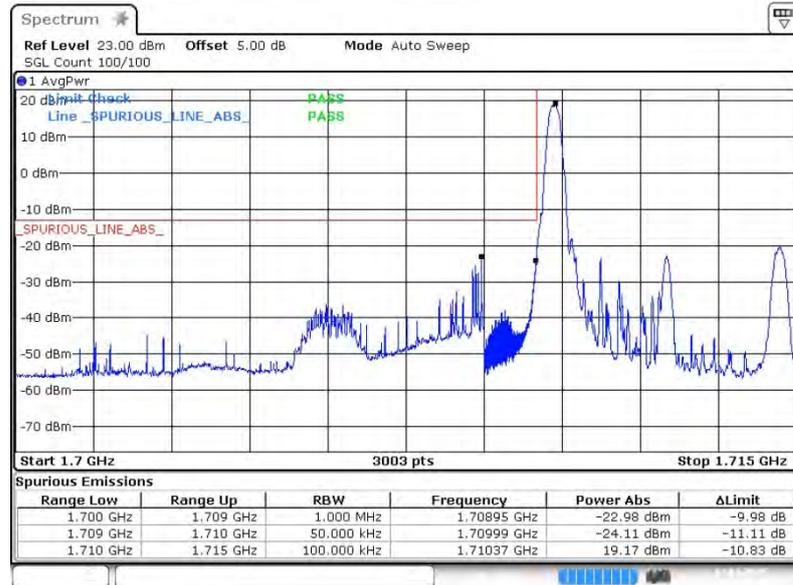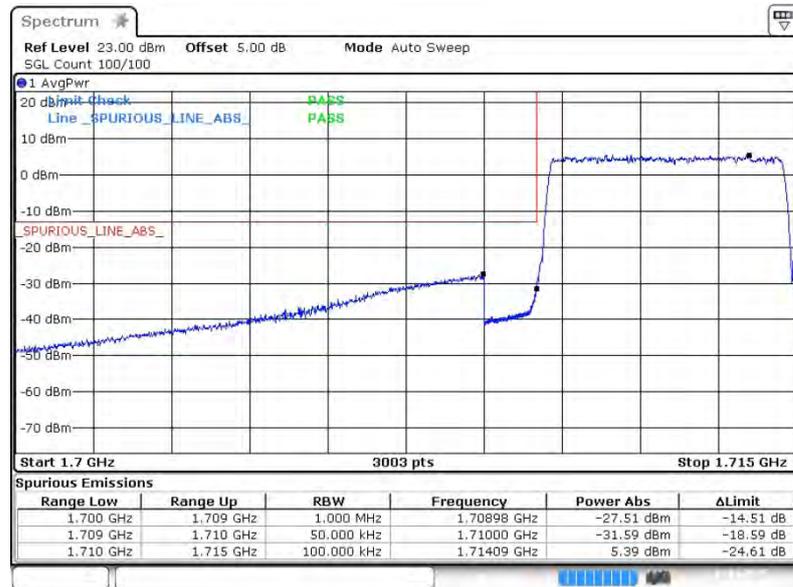| Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75452 GHz	5.91 dBm	-24.09 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75501 GHz	-27.97 dBm	-14.97 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75614 GHz	-21.70 dBm	-8.70 dB

Date: 12.JAN.2015 13:39:27

Band :	LTE Band 4	Band Width :	5MHz / 16QAM

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70895 GHz	−22.98 dBm	−9.98 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.70999 GHz	−24.11 dBm	−11.11 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71037 GHz	19.17 dBm	−10.83 dB

Date: 12.JAN.2015 21:12:59

Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70898 GHz	−27.51 dBm	−14.51 dB
1.709 GHz	1.710 GHz	50.000 kHz	1.71000 GHz	−31.59 dBm	−18.59 dB
1.710 GHz	1.715 GHz	100.000 kHz	1.71409 GHz	5.39 dBm	−24.61 dB

Date: 12.JAN.2015 21:15:06

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75467 GHz	19.35 dBm	-10.65 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75501 GHz	-17.94 dBm	-4.94 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75605 GHz	-34.61 dBm	-21.61 dB

Date: 12.JAN.2015 13:40:44

Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.750 GHz	1.755 GHz	100.000 kHz	1.75406 GHz	4.88 dBm	-25.12 dB
1.755 GHz	1.756 GHz	50.000 kHz	1.75500 GHz	-29.64 dBm	-16.64 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75609 GHz	-22.25 dBm	-9.25 dB

Date: 12.JAN.2015 13:39:57

Band :	LTE Band 4	Band Width :	10MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Date: 12.JAN.2015 21:23:37

Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0

Date: 12.JAN.2015 21:25:20

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49

Date: 12.JAN.2015 13:45:38

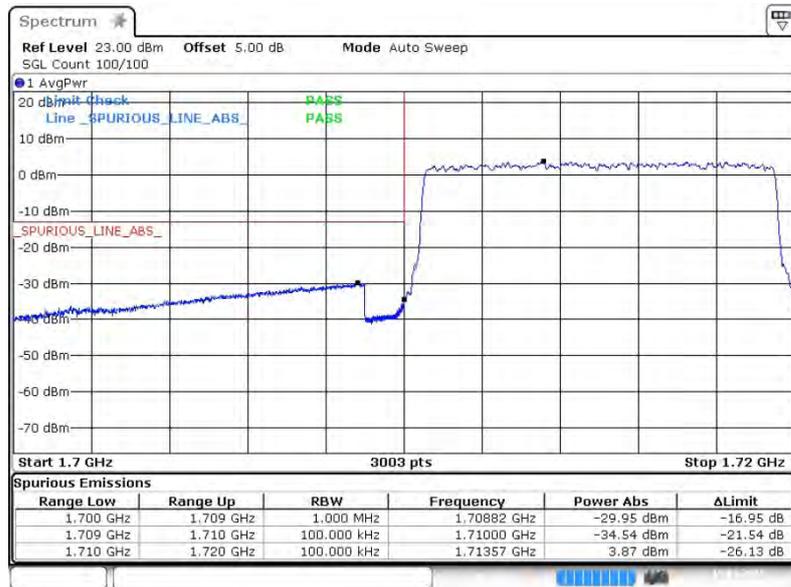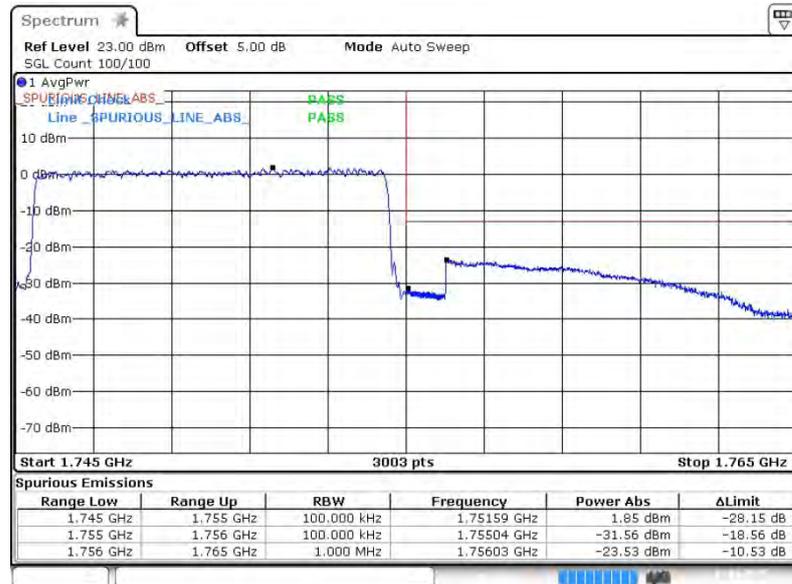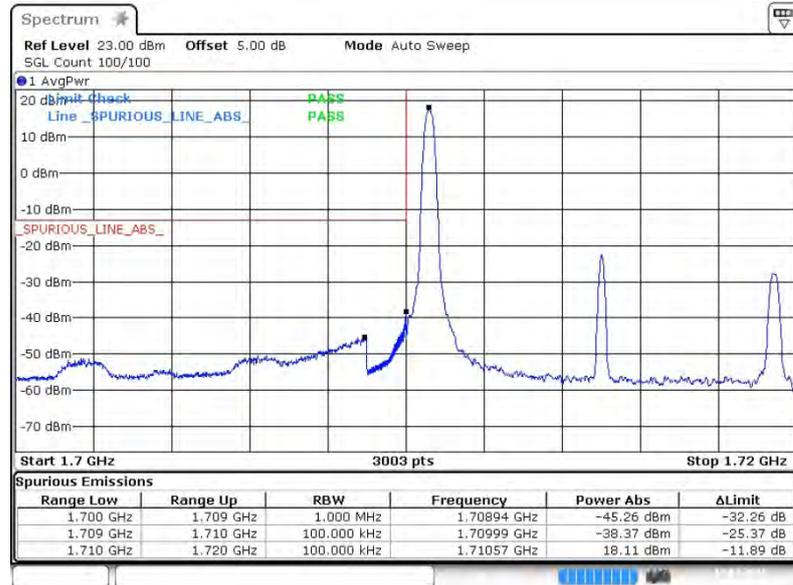**Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0**
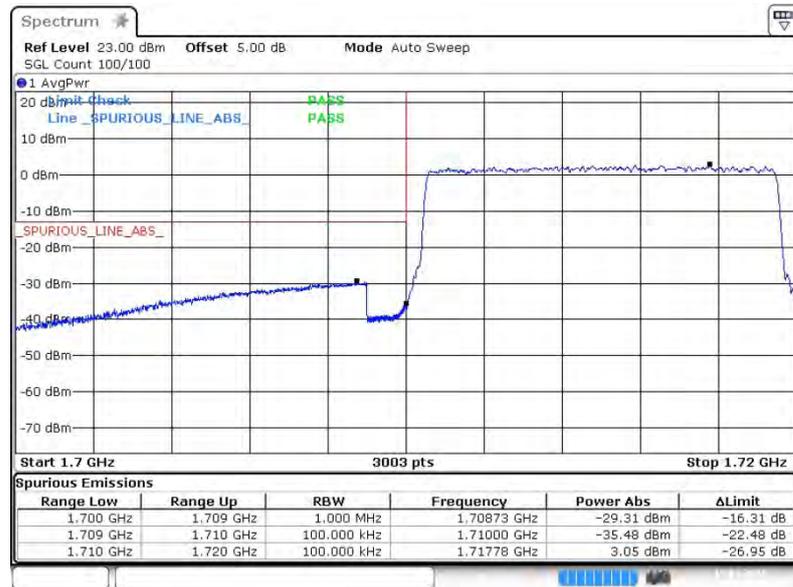

Date: 12.JAN.2015 13:44:23

Band :	LTE Band 4	Band Width :	10MHz / 16QAM

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Date: 12.JAN.2015 21:24:23

Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0
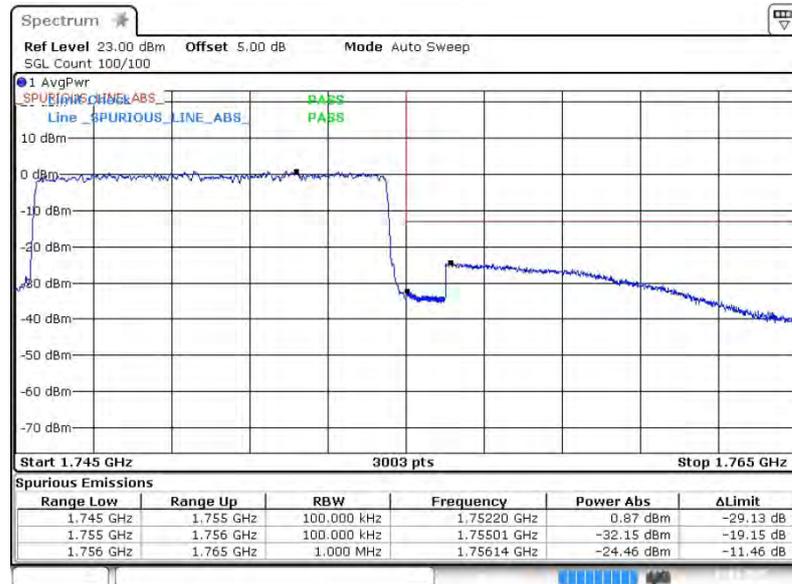

Date: 12.JAN.2015 21:26:21

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number   : 129 of 228
Report Issued Date : Feb. 11, 2015
Report Version   : Rev. 01

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.75441 GHz	18.43 dBm	-11.57 dB
1.755 GHz	1.756 GHz	100.000 kHz	1.75500 GHz	-20.56 dBm	-7.56 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75609 GHz	-36.09 dBm	-23.09 dB

Date: 12.JAN.2015 13:45:13

Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.745 GHz	1.755 GHz	100.000 kHz	1.75220 GHz	0.87 dBm	-29.13 dB
1.755 GHz	1.756 GHz	100.000 kHz	1.75501 GHz	-32.15 dBm	-19.15 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75614 GHz	-24.46 dBm	-11.46 dB

Date: 12.JAN.2015 13:44:45

Band :	LTE Band 4	Band Width :	15MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Date: 12.JAN.2015 13:48:23

Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0

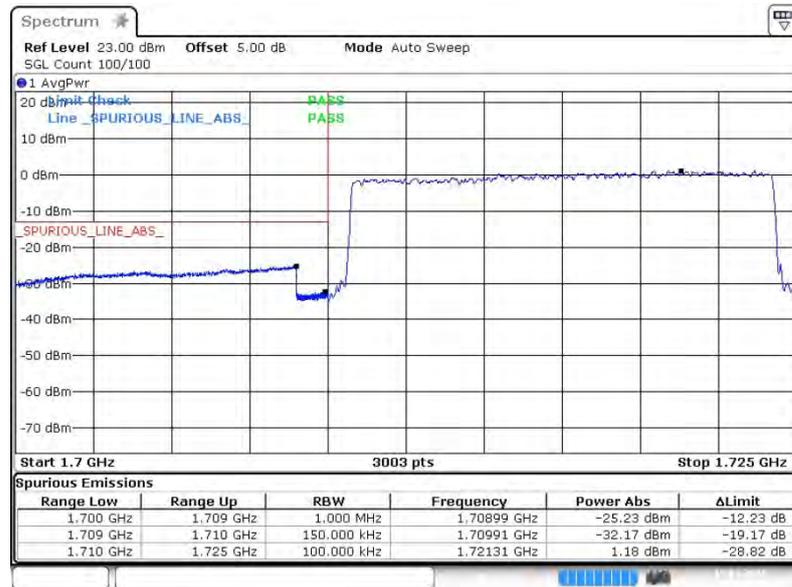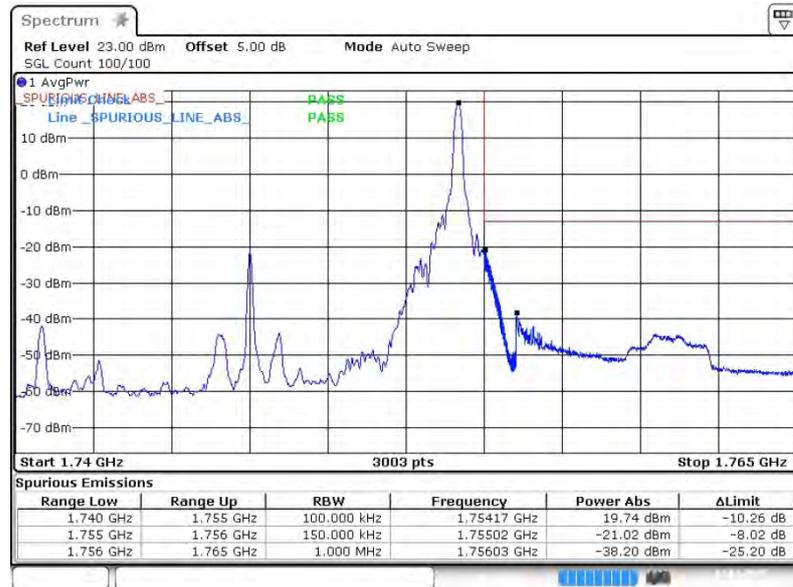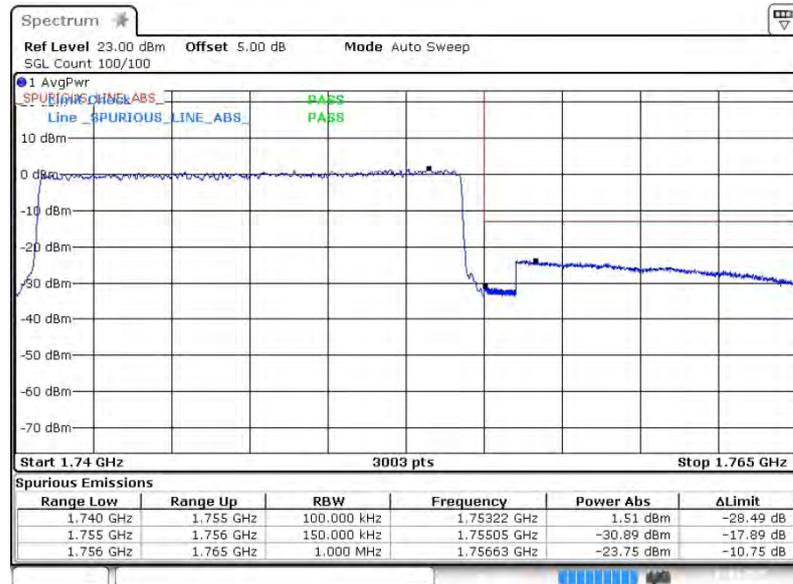Date: 12.JAN.2015 13:49:33

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number   : 131 of 228
Report Issued Date : Feb. 11, 2015
Report Version   : Rev. 01

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.755 GHz	100.000 kHz	1.75417 GHz	19.74 dBm	-10.26 dB
1.755 GHz	1.756 GHz	150.000 kHz	1.75502 GHz	-21.02 dBm	-8.02 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75603 GHz	-38.20 dBm	-25.20 dB

Date: 12.JAN.2015 13:52:16

Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0

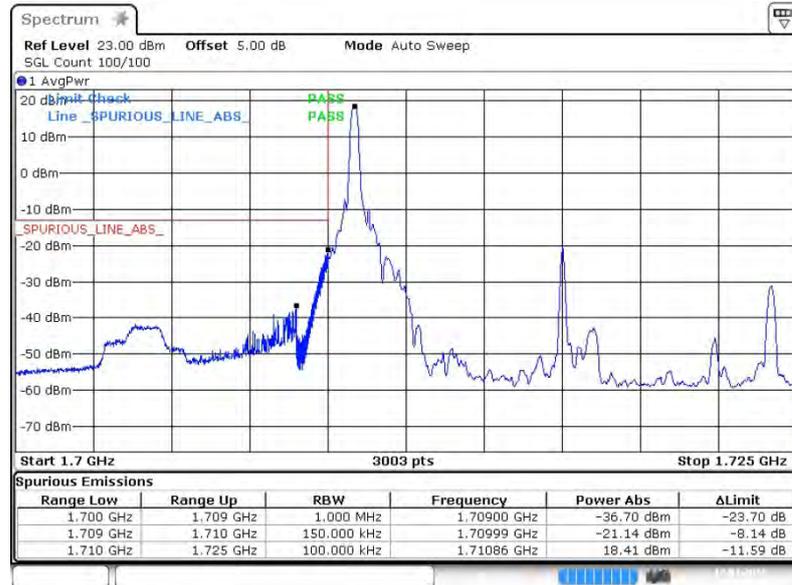| Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.755 GHz	100.000 kHz	1.75322 GHz	1.51 dBm	-28.49 dB
1.755 GHz	1.756 GHz	150.000 kHz	1.75505 GHz	-30.89 dBm	-17.89 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75663 GHz	-23.75 dBm	-10.75 dB

Date: 12.JAN.2015 13:50:19

Band :	LTE Band 4	Band Width :	15MHz / 16QAM

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Date: 12.JAN.2015 13:48:46

Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0

Date: 12.JAN.2015 13:49:09

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 74

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.755 GHz	100.000 kHz	1.75417 GHz	18.87 dBm	−11.13 dB
1.755 GHz	1.756 GHz	150.000 kHz	1.75501 GHz	−21.56 dBm	−8.56 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75604 GHz	−38.29 dBm	−25.29 dB

Date: 12.JAN.2015 13:51:08

Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.755 GHz	100.000 kHz	1.75286 GHz	0.63 dBm	−29.37 dB
1.755 GHz	1.756 GHz	150.000 kHz	1.75501 GHz	−32.03 dBm	−19.03 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75689 GHz	−24.79 dBm	−11.79 dB

Date: 12.JAN.2015 13:50:43

Band :	LTE Band 4	Band Width :	20MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Date: 12.JAN.2015 13:54:13

Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0
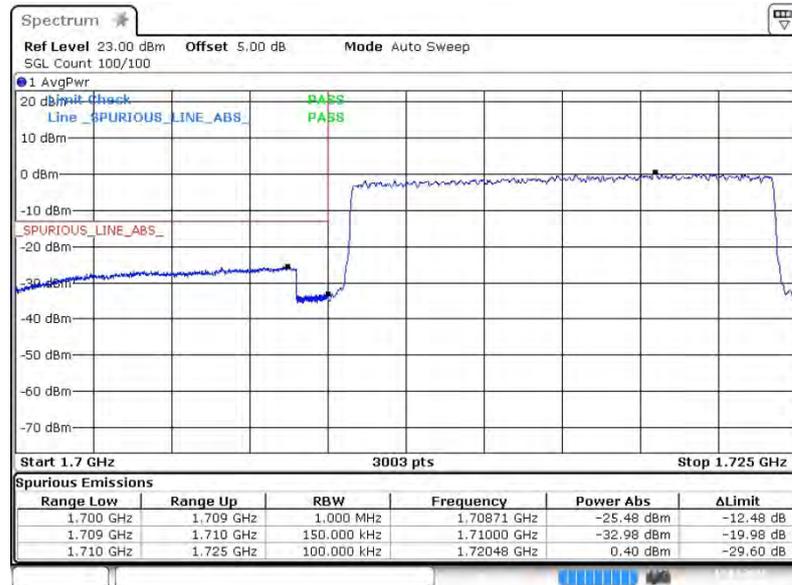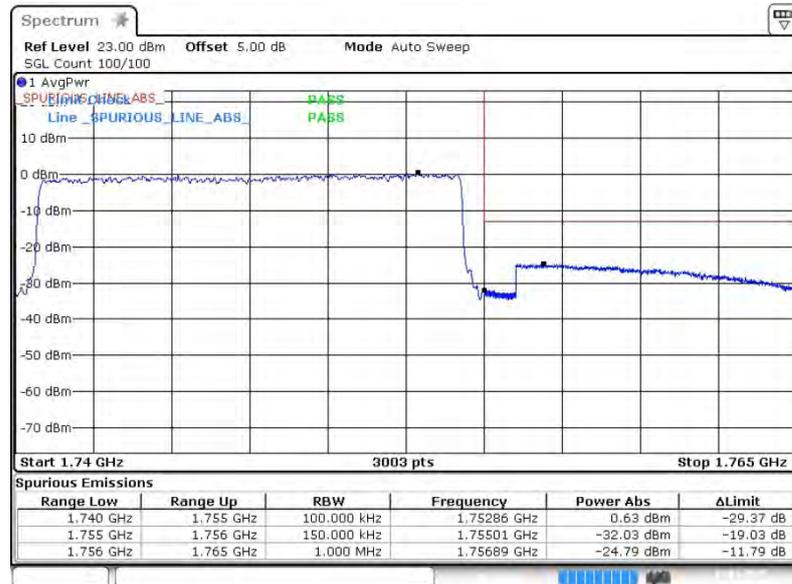

Date: 12.JAN.2015 13:55:21

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number : 135 of 228
Report Issued Date : Feb. 11, 2015
Report Version : Rev. 01

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75393 GHz	19.21 dBm	-10.79 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75501 GHz	-22.98 dBm	-9.98 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75606 GHz	-39.80 dBm	-26.80 dB

Date: 12.JAN.2015 13:57:11

Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75293 GHz	0.36 dBm	-29.64 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75503 GHz	-29.80 dBm	-16.80 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75639 GHz	-24.19 dBm	-11.19 dB

Date: 12.JAN.2015 13:55:56

Band :	LTE Band 4	**Band Width :**	20MHz / 16QAM

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Date: 12.JAN.2015 13:54:35

Lower Band Edge Plot for 16QAM-RB Size 100, RB Offset 0

Date: 12.JAN.2015 13:55:01
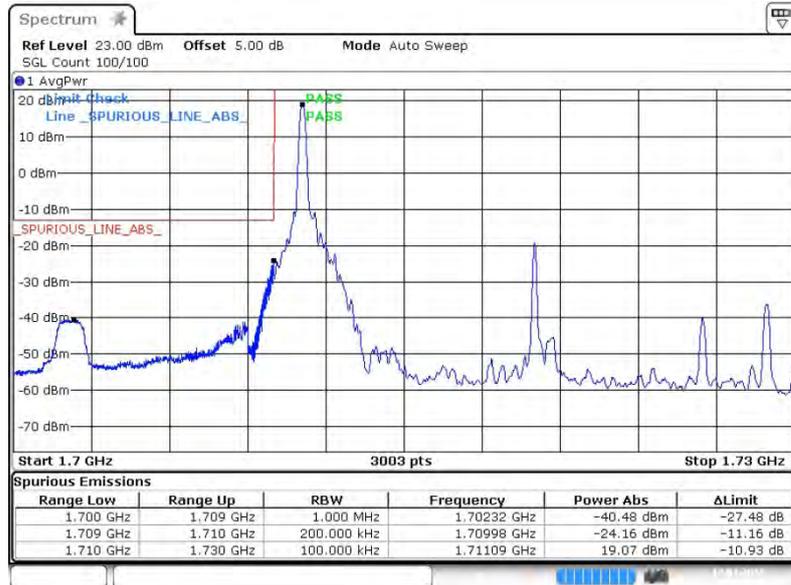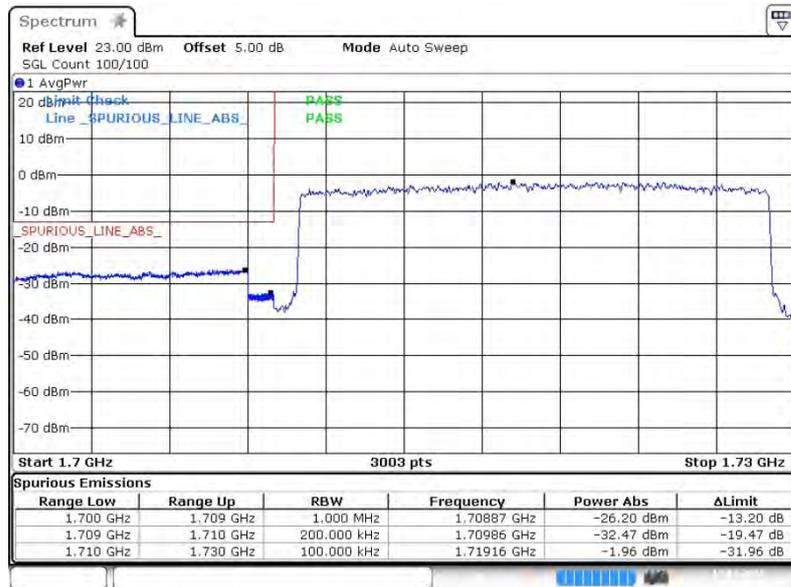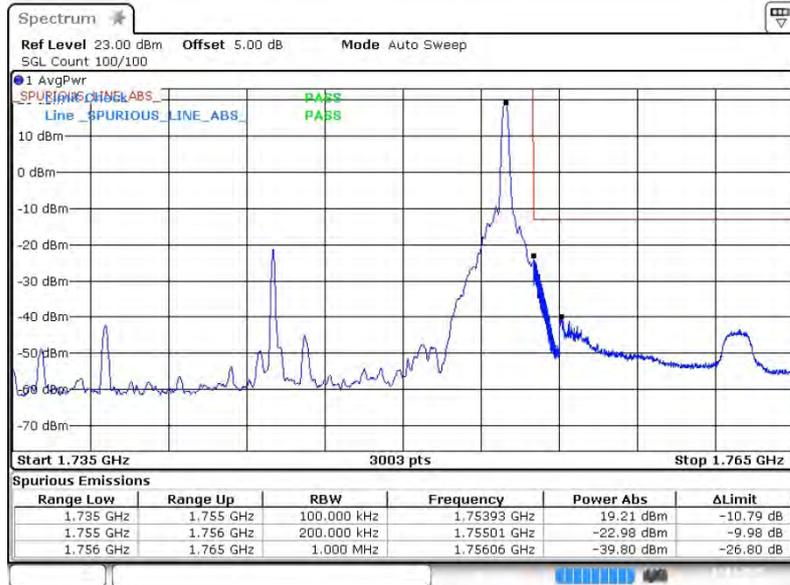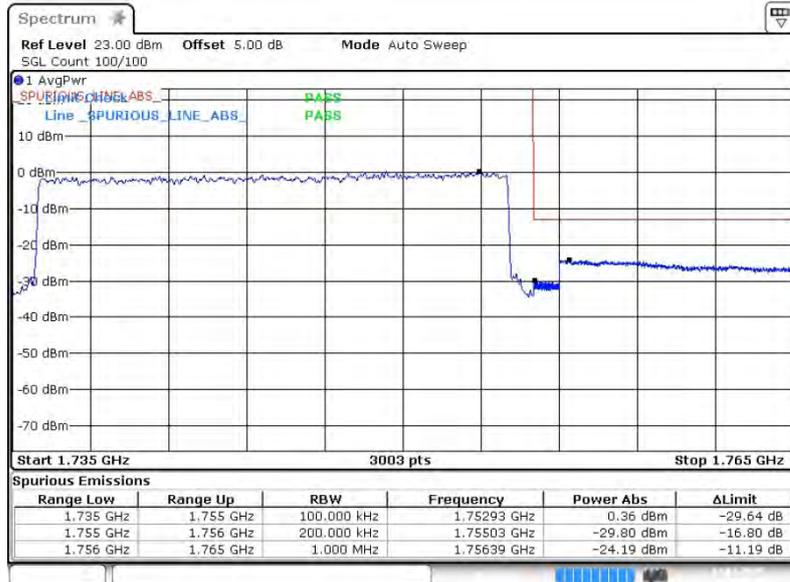
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 99

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75391 GHz	18.49 dBm	−11.51 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75501 GHz	−22.80 dBm	−9.80 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75601 GHz	−39.52 dBm	−26.52 dB

Date: 12.JAN.2015 13:56:51

Higher Band Edge Plot for 16QAM-RB Size 100, RB Offset 0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75157 GHz	−1.04 dBm	−31.04 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75585 GHz	−31.25 dBm	−18.25 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75659 GHz	−24.78 dBm	−11.78 dB

Date: 12.JAN.2015 13:56:18

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number   : 138 of 228
Report Issued Date : Feb. 11, 2015
Report Version   : Rev. 01

Band :	LTE Band 7	Band Width :	5MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Date: 12.JAN.2015 15:13:00

Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0

Date: 12.JAN.2015 15:15:12

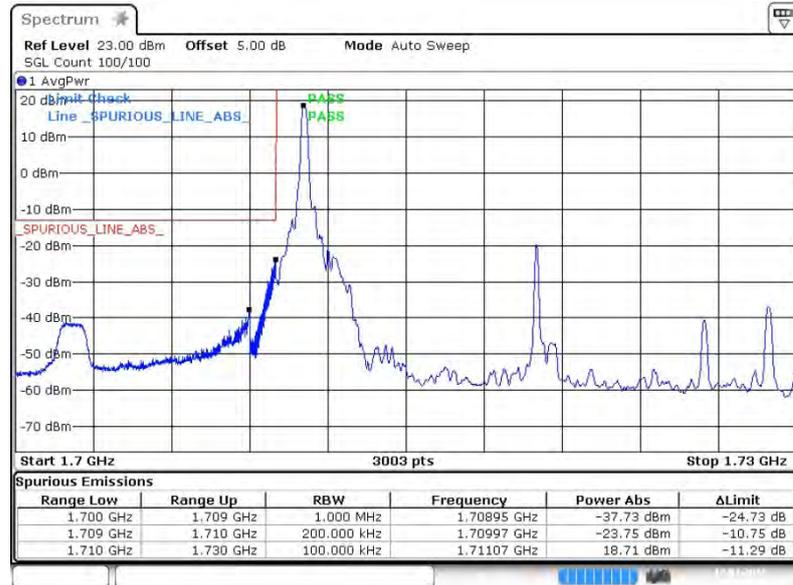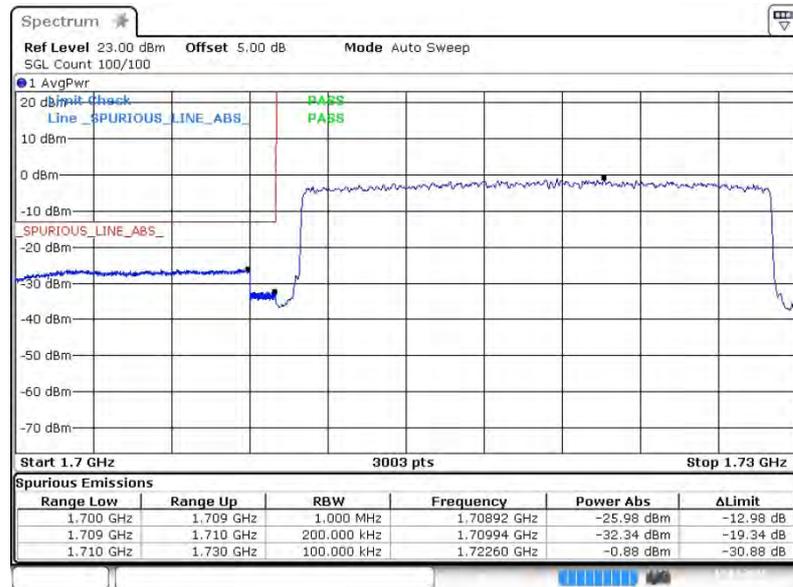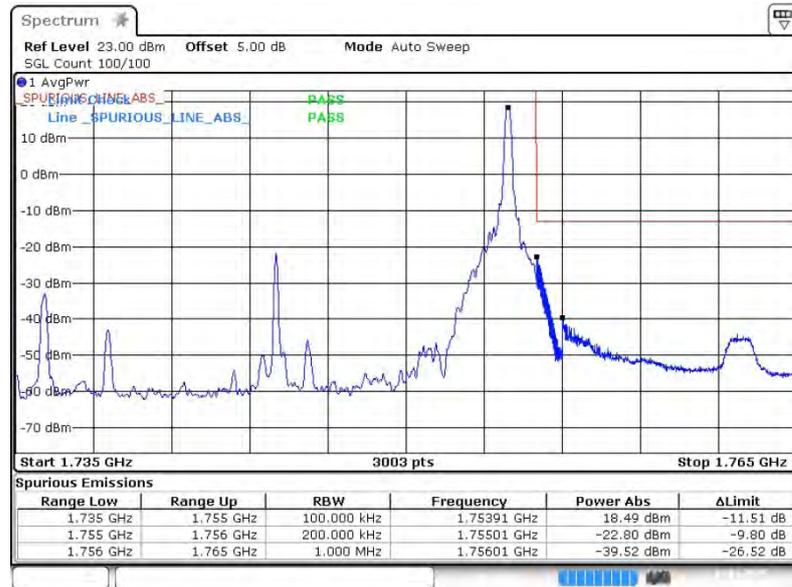### Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56966 GHz	18.09 dBm	-11.91 dB
2.570 GHz	2.571 GHz	50.000 kHz	2.57000 GHz	-19.26 dBm	-9.26 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57101 GHz	-39.24 dBm	-29.24 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57530 GHz	-49.67 dBm	-36.67 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57835 GHz	-46.19 dBm	-21.19 dB

Date: 12.JAN.2015 15:19:32

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56958 GHz	4.08 dBm	-25.92 dB
2.570 GHz	2.571 GHz	50.000 kHz	2.57000 GHz	-31.26 dBm	-21.26 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57124 GHz	-24.01 dBm	-14.01 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57501 GHz	-34.66 dBm	-21.66 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57609 GHz	-40.13 dBm	-15.13 dB

Date: 12.JAN.2015 15:16:20

Band :	LTE Band 7	Band Width :	5MHz / 16QAM

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Date: 12.JAN.2015 15:14:27

Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0
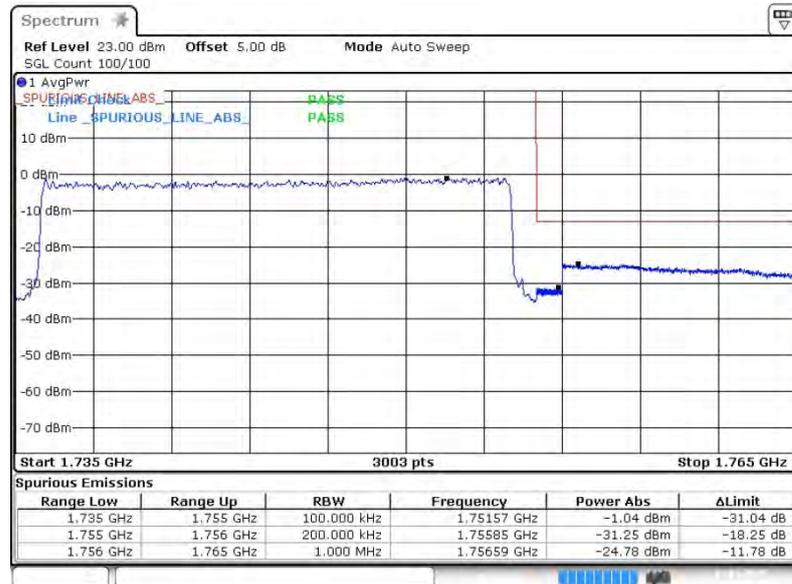

Date: 12.JAN.2015 15:14:48
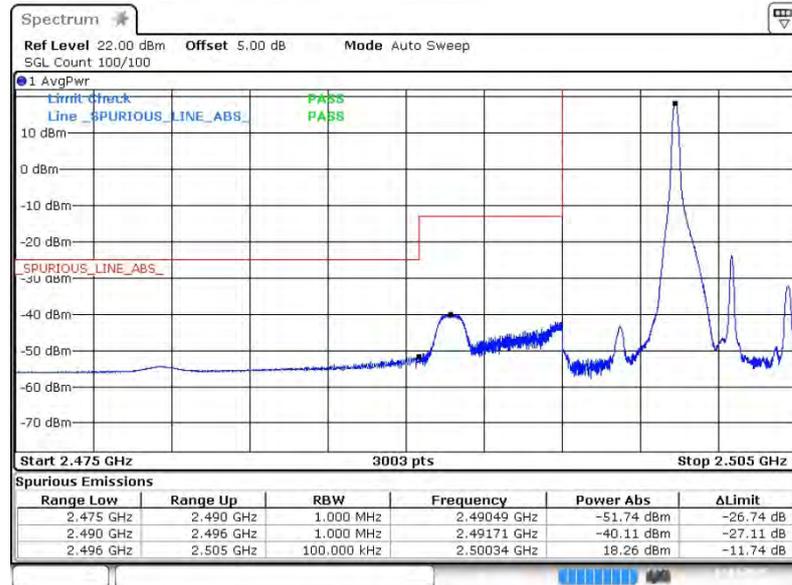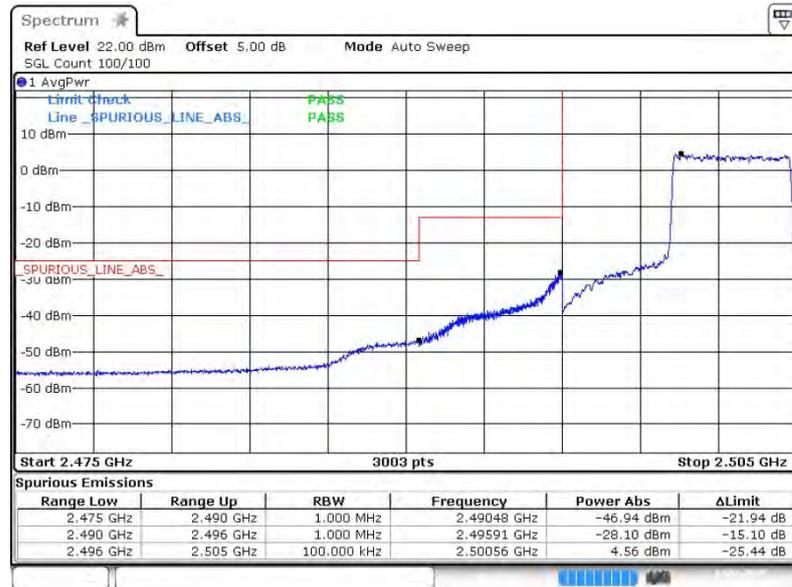
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56966 GHz	16.87 dBm	−13.13 dB
2.570 GHz	2.571 GHz	50.000 kHz	2.57000 GHz	−19.83 dBm	−9.83 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57135 GHz	−38.20 dBm	−28.20 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57567 GHz	−53.46 dBm	−40.46 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57835 GHz	−44.21 dBm	−19.21 dB

Date: 12.JAN.2015 15:18:09

Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56934 GHz	2.90 dBm	−27.10 dB
2.570 GHz	2.571 GHz	50.000 kHz	2.57000 GHz	−33.46 dBm	−23.46 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57123 GHz	−27.08 dBm	−17.08 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57519 GHz	−37.85 dBm	−24.85 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57609 GHz	−42.99 dBm	−17.99 dB

Date: 12.JAN.2015 15:16:55

Band :	LTE Band 7	**Band Width :**	10MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Date: 12.JAN.2015 15:20:24

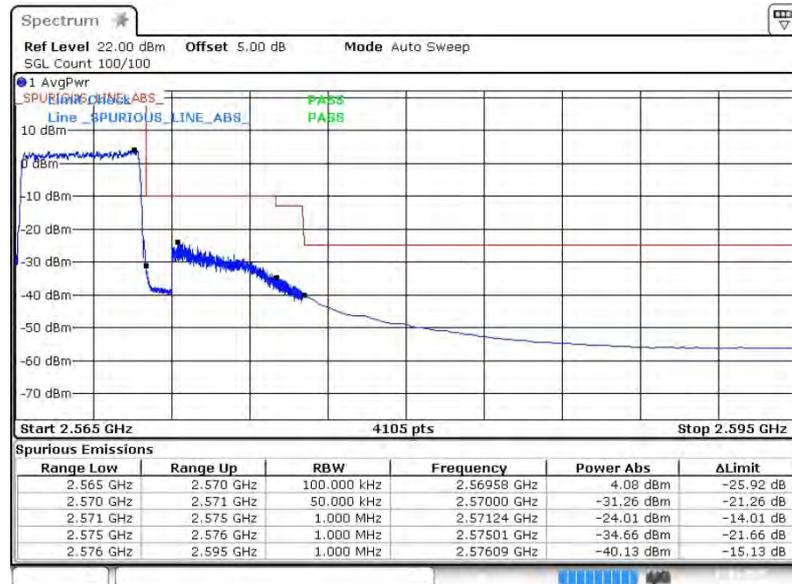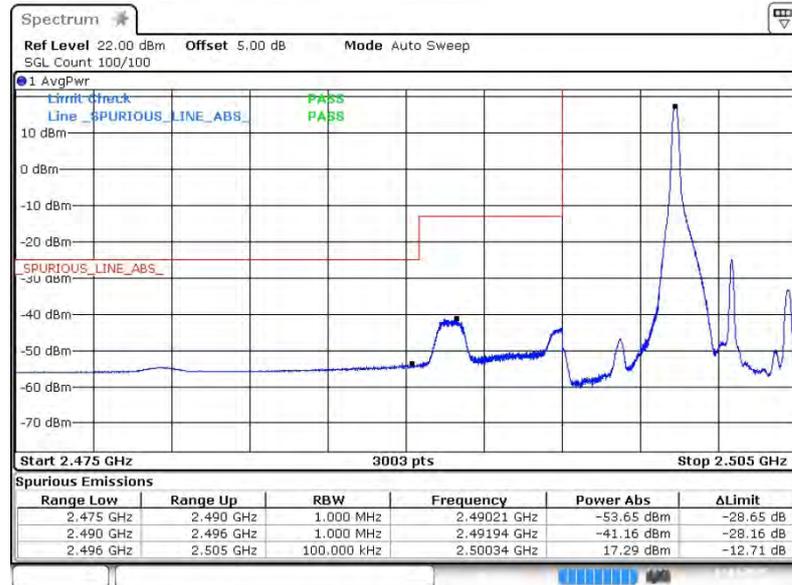**Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0**
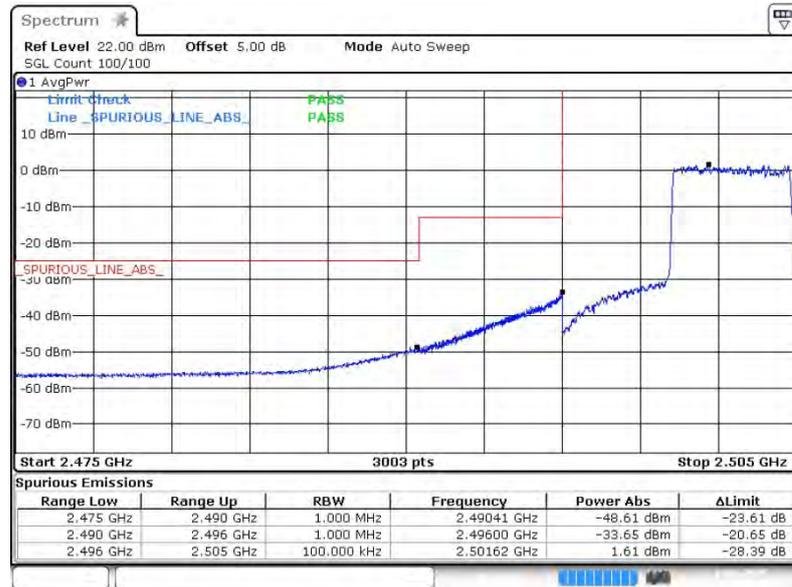

Date: 12.JAN.2015 15:21:42
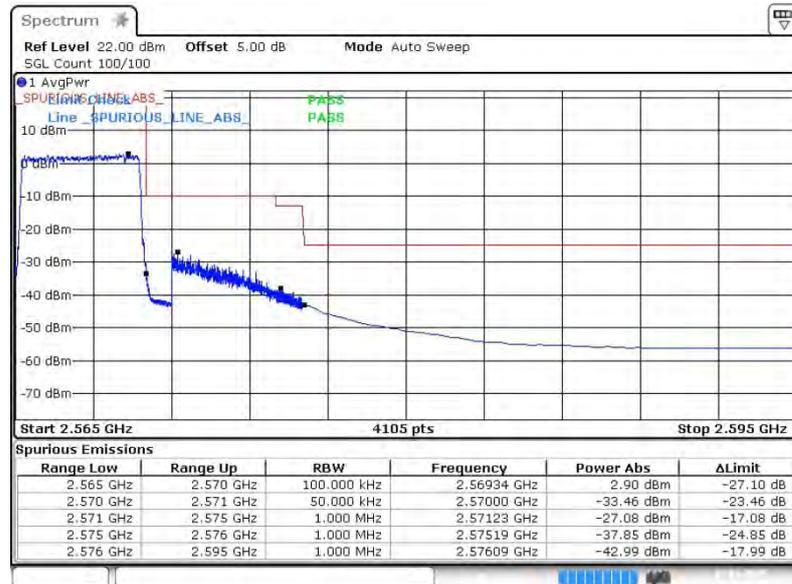
SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number   : 143 of 228
Report Issued Date : Feb. 11, 2015
Report Version   : Rev. 01

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56939 GHz	17.10 dBm	-12.90 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57001 GHz	-23.57 dBm	-13.57 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57102 GHz	-42.55 dBm	-32.55 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57829 GHz	-51.89 dBm	-38.89 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58676 GHz	-49.59 dBm	-24.59 dB

Date: 12.JAN.2015 15:23:38

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56894 GHz	0.99 dBm	-29.01 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57001 GHz	-35.03 dBm	-25.03 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57101 GHz	-28.51 dBm	-18.51 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57509 GHz	-33.43 dBm	-20.43 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58007 GHz	-41.43 dBm	-16.43 dB

Date: 12.JAN.2015 15:22:11

Band :	LTE Band 7	Band Width :	10MHz / 16QAM

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Spectrum

Ref Level 22.00 dBm   Offset 5.00 dB   Mode Auto Sweep
SGL Count 100/100

● 1 AvgPwr

Limit Check   PASS
Line _SPURIOUS_LINE_ABS_   PASS

Start 2.475 GHz   3003 pts   Stop 2.51 GHz

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48281 GHz	−54.25 dBm	−29.25 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49597 GHz	−48.21 dBm	−35.21 dB
2.496 GHz	2.510 GHz	100.000 kHz	2.50062 GHz	16.32 dBm	−13.68 dB

Date: 12.JAN.2015 15:20:52

Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0

Spectrum

Ref Level 22.00 dBm   Offset 5.00 dB   Mode Auto Sweep
SGL Count 100/100

● 1 AvgPwr

Limit Check   PASS
Line _SPURIOUS_LINE_ABS_   PASS

Start 2.475 GHz   3003 pts   Stop 2.51 GHz

Spurious Emissions

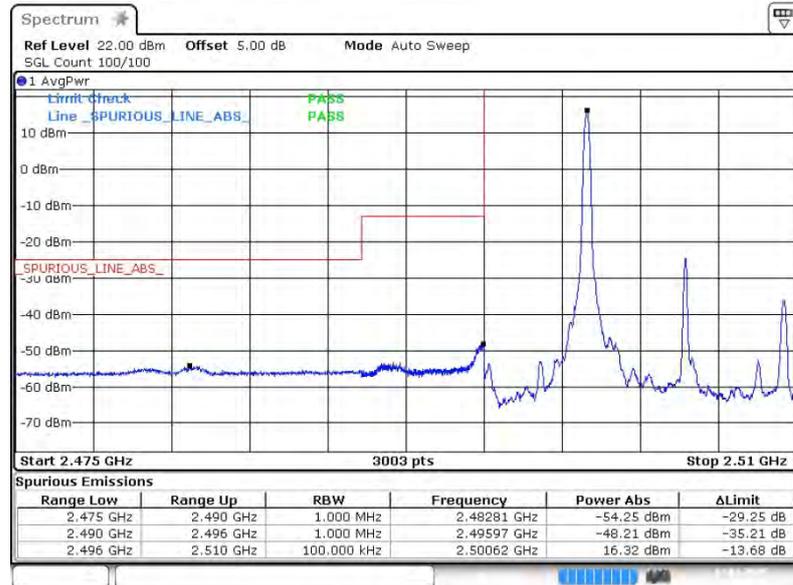| Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49035 GHz	−40.82 dBm	−15.82 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49594 GHz	−25.46 dBm	−12.46 dB
2.496 GHz	2.510 GHz	100.000 kHz	2.50210 GHz	0.94 dBm	−29.06 dB

Date: 12.JAN.2015 15:21:17

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number   : 145 of 228
Report Issued Date : Feb. 11, 2015
Report Version   : Rev. 01

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56941 GHz	16.98 dBm	−13.02 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	−21.53 dBm	−11.53 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57100 GHz	−37.67 dBm	−27.67 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57812 GHz	−50.47 dBm	−37.47 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58676 GHz	−48.68 dBm	−23.68 dB

Date: 12.JAN.2015 15:23:18

Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56698 GHz	−0.10 dBm	−30.10 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	−35.77 dBm	−25.77 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57102 GHz	−30.60 dBm	−20.60 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57531 GHz	−34.92 dBm	−21.92 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58007 GHz	−44.19 dBm	−19.19 dB

Date: 12.JAN.2015 15:22:35

| **Band :** | LTE Band 7 | **Band Width :** | 15MHz / QPSK |

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48726 GHz	−47.30 dBm	−22.30 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49384 GHz	−42.02 dBm	−29.02 dB
2.496 GHz	2.515 GHz	100.000 kHz	2.50087 GHz	18.15 dBm	−11.85 dB

Date: 12.JAN.2015 15:25:08

Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49046 GHz	−32.36 dBm	−7.36 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49575 GHz	−24.06 dBm	−11.06 dB
2.496 GHz	2.515 GHz	100.000 kHz	2.50203 GHz	−0.31 dBm	−30.31 dB

Date: 12.JAN.2015 15:27:34

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number : 147 of 228
Report Issued Date : Feb. 11, 2015
Report Version : Rev. 01

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56914 GHz	18.08 dBm	−11.92 dB
2.570 GHz	2.571 GHz	150.000 kHz	2.57002 GHz	−26.44 dBm	−16.44 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	−39.93 dBm	−29.93 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57622 GHz	−46.71 dBm	−33.71 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58812 GHz	−52.64 dBm	−27.64 dB

Date: 14.JAN.2015 14:19:10

Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0

Spurious Emissions					
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56911 GHz	1.74 dBm	−28.26 dB
2.570 GHz	2.571 GHz	150.000 kHz	2.57002 GHz	−30.62 dBm	−20.62 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	−24.05 dBm	−14.05 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57531 GHz	−27.53 dBm	−14.53 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58505 GHz	−41.08 dBm	−16.08 dB

Date: 14.JAN.2015 14:17:07

Band :	LTE Band 7	Band Width :	15MHz / 16QAM

Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Date: 12.JAN.2015 15:25:31

Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0

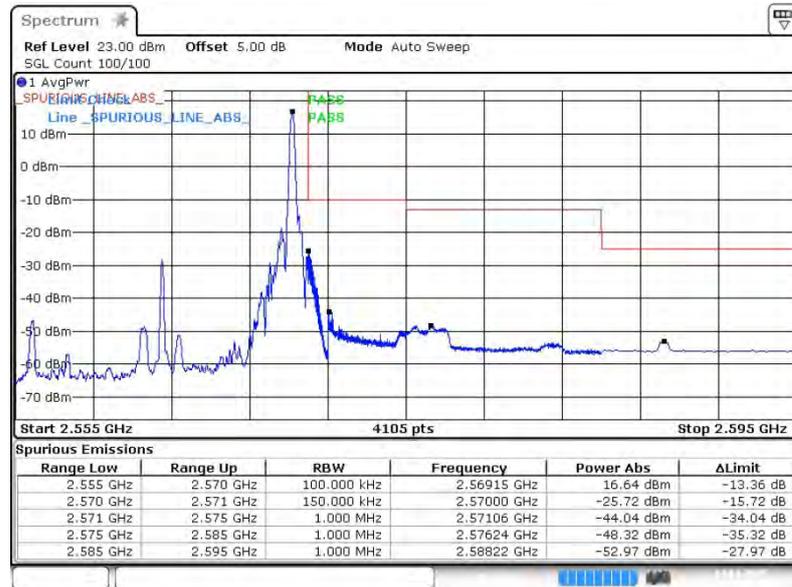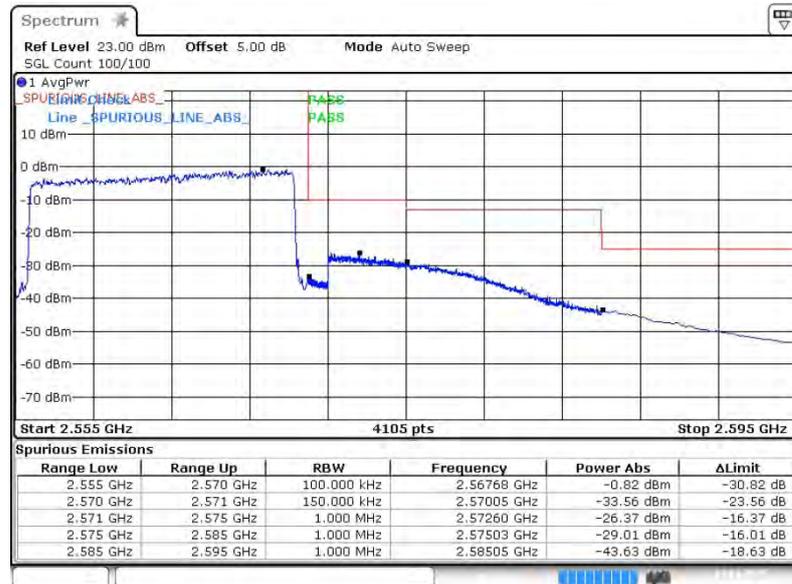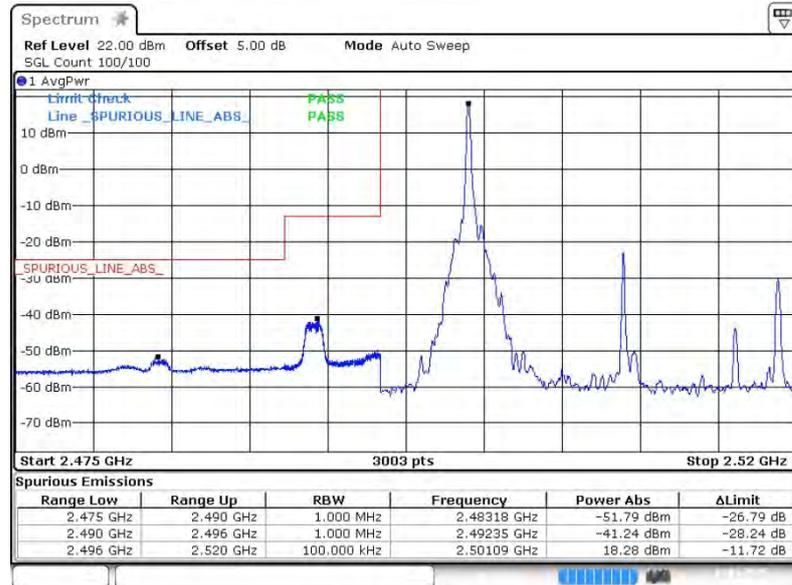Date: 12.JAN.2015 15:25:57

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number : 149 of 228
Report Issued Date : Feb. 11, 2015
Report Version : Rev. 01

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 74

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56915 GHz	16.64 dBm	−13.36 dB
2.570 GHz	2.571 GHz	150.000 kHz	2.57000 GHz	−25.72 dBm	−15.72 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57106 GHz	−44.04 dBm	−34.04 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57624 GHz	−48.32 dBm	−35.32 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58822 GHz	−52.97 dBm	−27.97 dB

Date: 14.JAN.2015 14:18:06

Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56768 GHz	−0.82 dBm	−30.82 dB
2.570 GHz	2.571 GHz	150.000 kHz	2.57005 GHz	−33.56 dBm	−23.56 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57260 GHz	−26.37 dBm	−16.37 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57503 GHz	−29.01 dBm	−16.01 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58505 GHz	−43.63 dBm	−18.63 dB

Date: 14.JAN.2015 14:17:46

Band :	LTE Band 7	**Band Width :**	20MHz / QPSK

Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0

Date: 12.JAN.2015 15:40:52

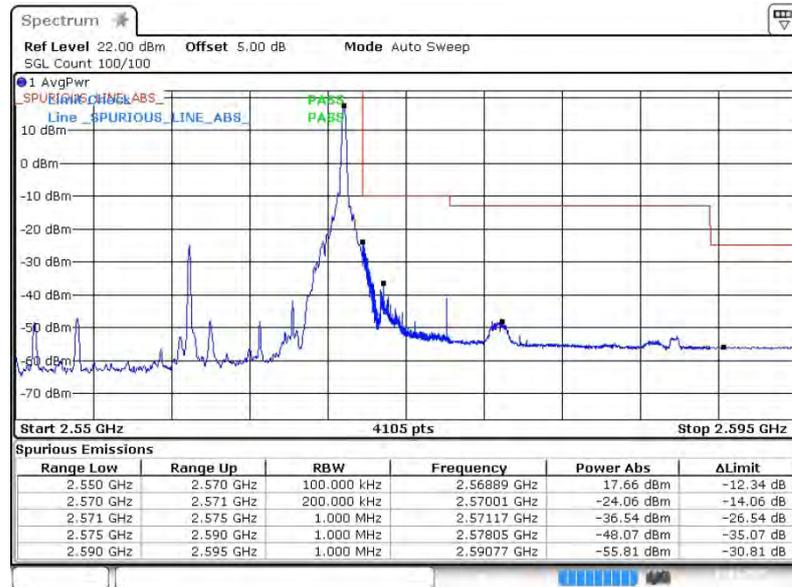**Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0**

Date: 12.JAN.2015 15:42:47

SPORTON INTERNATIONAL (KUNSHAN) INC.
TEL : 86-0512-5790-0158
FAX : 86-0512-5790-0958
FCC ID : SRQ-BLADEA430

Page Number   : 151 of 228
Report Issued Date : Feb. 11, 2015
Report Version   : Rev. 01

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99

Date: 12.JAN.2015 15:44:57

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56889 GHz	17.66 dBm	-12.34 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-24.06 dBm	-14.06 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57117 GHz	-36.54 dBm	-26.54 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57805 GHz	-48.07 dBm	-35.07 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59077 GHz	-55.81 dBm	-30.81 dB

Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0

Date: 12.JAN.2015 15:43:25

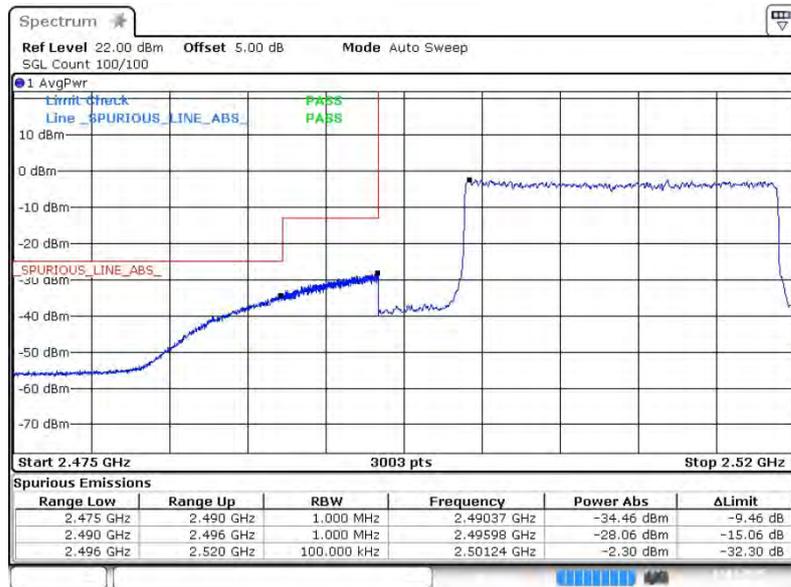| Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56809 GHz	0.24 dBm	-29.76 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57003 GHz	-31.35 dBm	-21.35 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57122 GHz	-25.20 dBm	-15.20 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57526 GHz	-27.83 dBm	-14.83 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59007 GHz	-45.19 dBm	-20.19 dB

Band :	LTE Band 7	Band Width :	20MHz / 16QAM

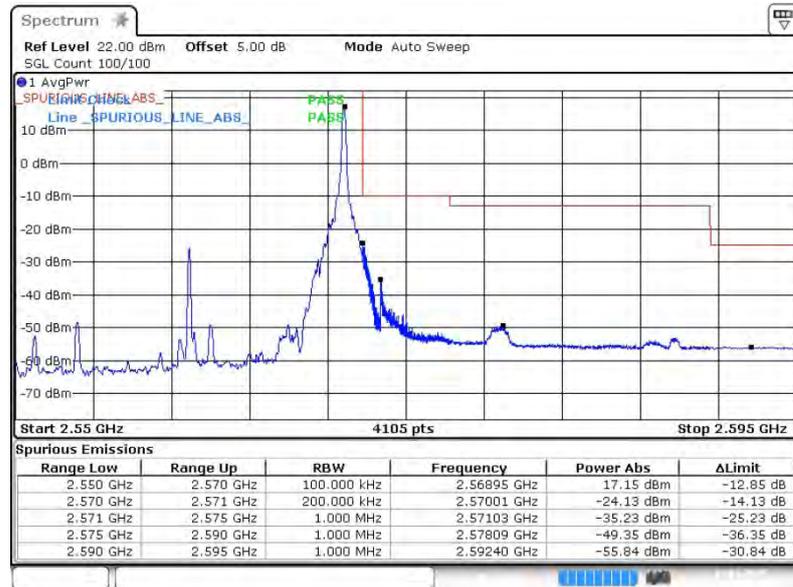### Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0

Date: 12.JAN.2015 15:41:16

Lower Band Edge Plot for 16QAM-RB Size 100, RB Offset 0
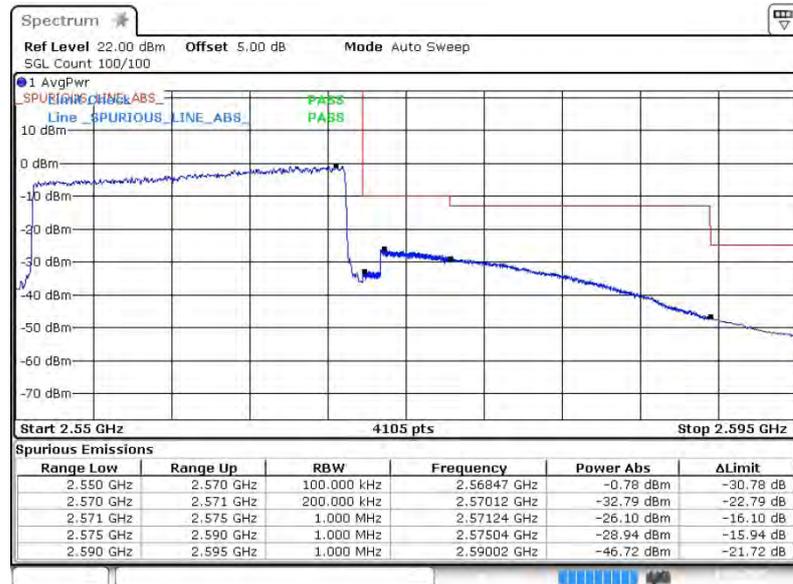

Date: 12.JAN.2015 15:42:23

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 99

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56895 GHz	17.15 dBm	-12.85 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-24.13 dBm	-14.13 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57103 GHz	-35.23 dBm	-25.23 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57809 GHz	-49.35 dBm	-36.35 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59240 GHz	-55.84 dBm	-30.84 dB

Date: 12.JAN.2015 15:44:20

Higher Band Edge Plot for 16QAM-RB Size 100, RB Offset 0

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56847 GHz	-0.78 dBm	-30.78 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57012 GHz	-32.79 dBm	-22.79 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57124 GHz	-26.10 dBm	-16.10 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57504 GHz	-28.94 dBm	-15.94 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59002 GHz	-46.72 dBm	-21.72 dB

Date: 12.JAN.2015 15:43:52

SPORTON INTERNATIONAL (KUNSHAN) INC.   Page Number   : 154 of 228
TEL : 86-0512-5790-0158   Report Issued Date : Feb. 11, 2015
FAX : 86-0512-5790-0958   Report Version   : Rev. 01
FCC ID : SRQ-BLADEA430