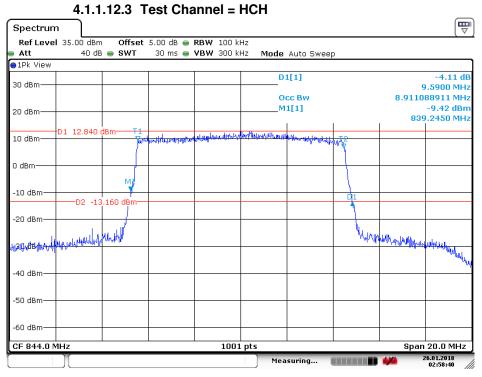
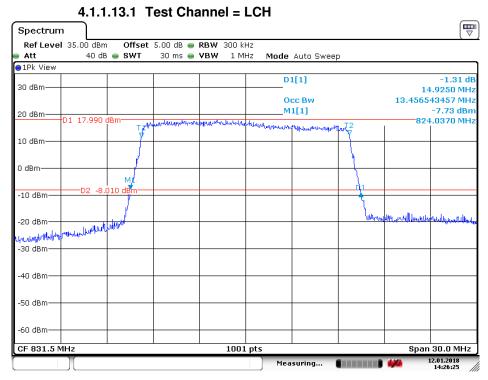


Report No.: SZEM180200138803 Page: 46 of 92



Date: 26.JAN.2018 02:58:40

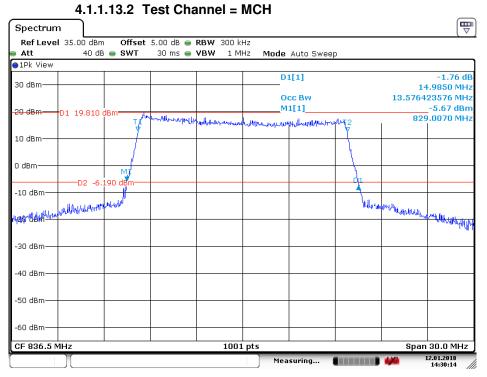
4.1.1.13 Test Mode = LTE/TM1 15MHz



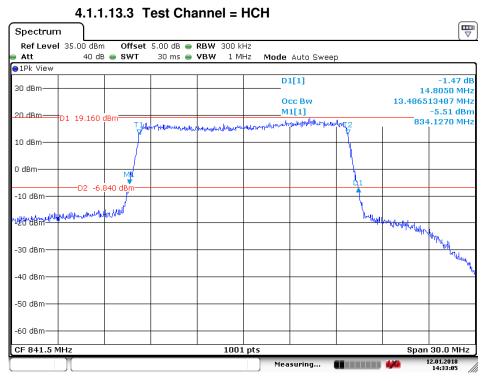
Date: 12.JAN.2018 14:26:26



Report No.: SZEM180200138803 Page: 47 of 92



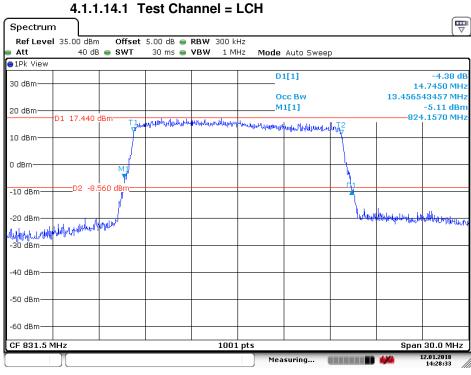
Date: 12.JAN.2018 14:30:15



Date: 12.JAN.2018 14:33:05

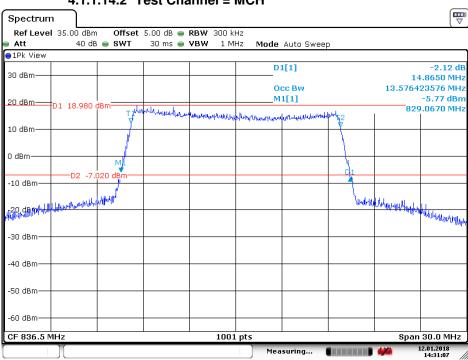


Report No.: SZEM180200138803 Page: 48 of 92



4.1.1.14 Test Mode = LTE/TM2 15MHz

Date: 12.JAN.2018 14:28:34

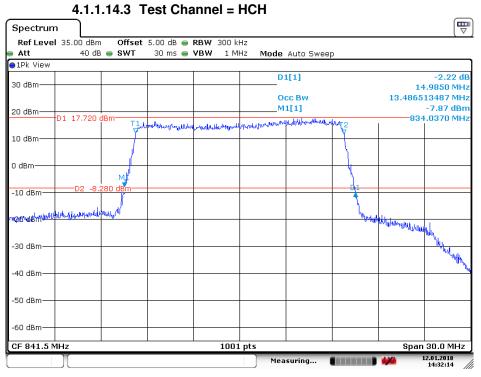


4.1.1.14.2 Test Channel = MCH

Date: 12.JAN.2018 14:31:07

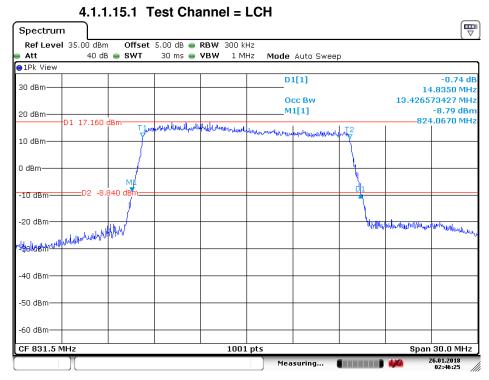


Report No.: SZEM180200138803 Page: 49 of 92



Date: 12.JAN.2018 14:32:15

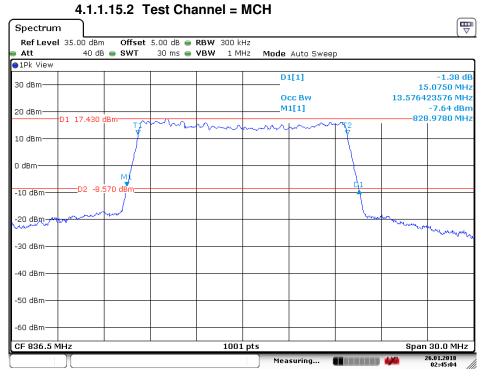
4.1.1.15 Test Mode = LTE/TM3 15MHz



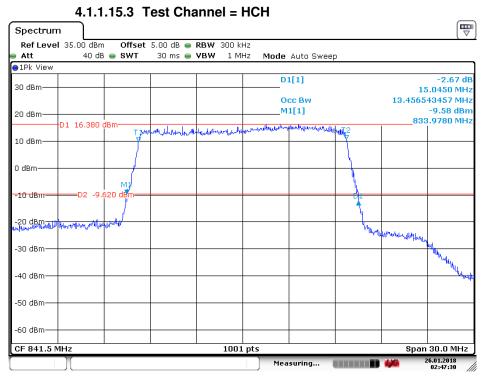
Date: 26.JAN.2018 02:46:25



Report No.: SZEM180200138803 Page: 50 of 92



Date: 26.JAN.2018 02:45:04



Date: 26.JAN.2018 02:47:30



Report No.: SZEM180200138803 Page: 51 of 92

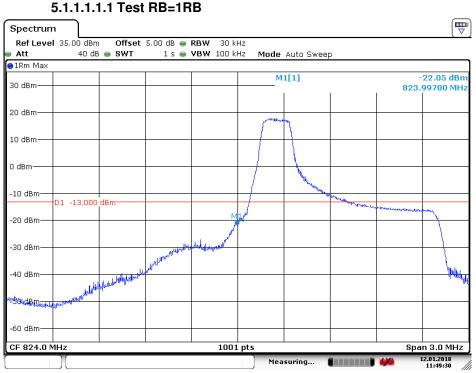
5 Band Edges Compliance

5.1 For LTE

5.1.1 Test Band = LTE band26

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH



Date: 12.JAN.2018 11:49:30

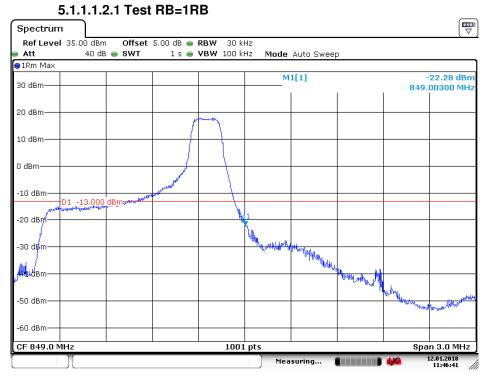


Report No.: SZEM180200138803 Page: 52 of 92

P Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 30 kHz Att 40 dB 🔵 SWT 1 s 👄 **VBW** 100 kHz Mode Auto Sweep ⊖1Rm Ma× M1[1] -29.66 dBm 30 dBm 823.99700 MH 20 dBm 10 dBm 0 dBm -10 dBm D1 -13.000 dBm -20 dBm -30 dBm Malandhingh htherethelicitation -40 dBm -50 dBm -60 dBm-CF 824.0 MHz 1001 pts Span 3.0 MHz 12.01.2018 11:48:37 Measuring...

Date: 12.JAN.2018 11:48:37

5.1.1.1.2 Test Channel = HCH



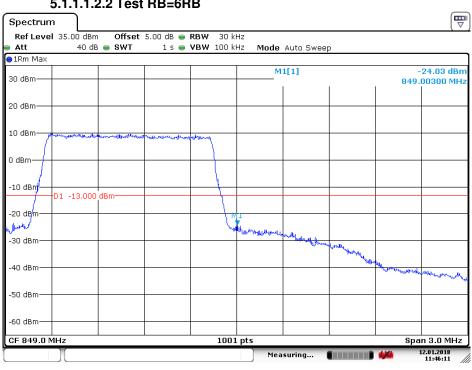
Date: 12.JAN.2018 11:46:41

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.1.1.2 Test RB=6RB

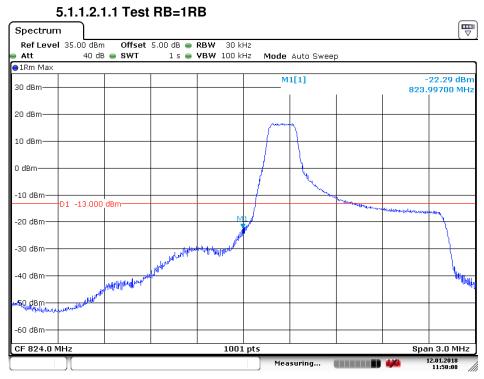


Report No.: SZEM180200138803 53 of 92 Page:



Date: 12.JAN.2018 11:46:11

5.1.1.2 Test Mode = LTE/TM2 1.4MHz 5.1.1.2.1 Test Channel = LCH



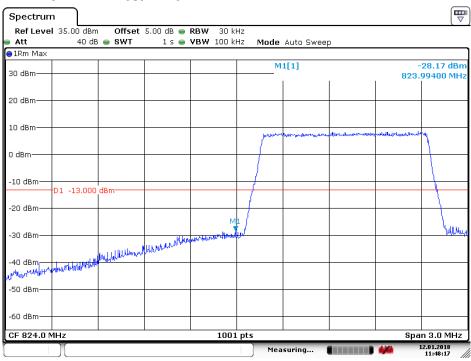
Date: 12.JAN.2018 11:50:09

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.1.2.2 Test RB=6RB

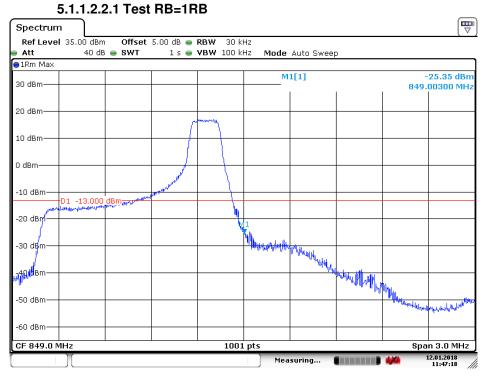


Report No.: SZEM180200138803 Page: 54 of 92



Date: 12.JAN.2018 11:48:17

5.1.1.2.2 Test Channel = HCH



Date: 12.JAN.2018 11:47:18

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.2.1.2 Test RB=6RB



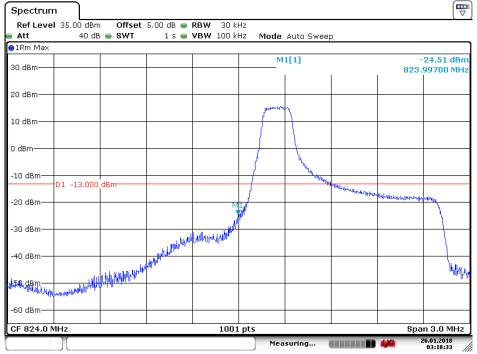
Report No.: SZEM180200138803 Page: 55 of 92

P Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 30 kHz Att 40 dB 🔵 SWT 1 s 👄 **VBW** 100 kHz Mode Auto Sweep ⊖1Rm Ma× M1[1] -27.49 dBm 30 dBm 849.00300 MH 20 dBm 10 dBm 0 dBm -10 dBm D1 -13.000 dBm -20 dBm -30 dBm **wki**a Alt halv -40 dBm -50 dBm -60 dBm-CF 849.0 MHz 1001 pts Span 3.0 MHz 12.01.2018 11:45:49 Measuring...

Date: 12.JAN.2018 11:45:49

5.1.1.3 Test Mode = LTE/TM3 1.4MHz 5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



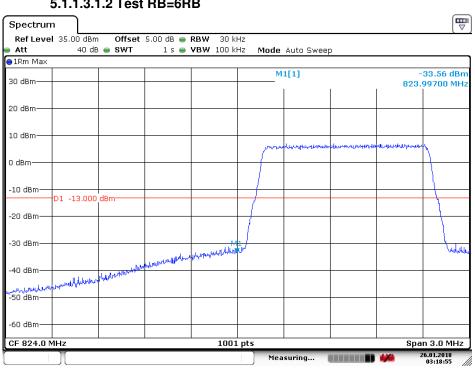
Date: 26.JAN.2018 03:18:34

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.2.2.2 Test RB=6RB



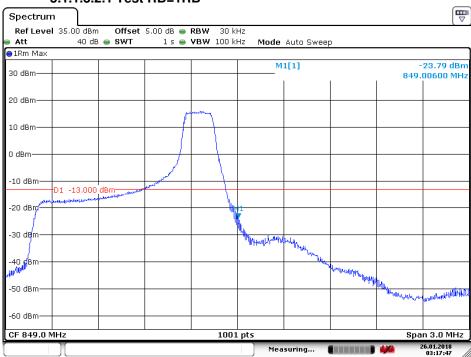
Report No.: SZEM180200138803 Page: 56 of 92



5.1.1.3.1.2 Test RB=6RB

Date: 26.JAN.2018 03:18:54

5.1.1.3.2 Test Channel = HCH



5.1.1.3.2.1 Test RB=1RB

Date: 26.JAN.2018 03:17:47



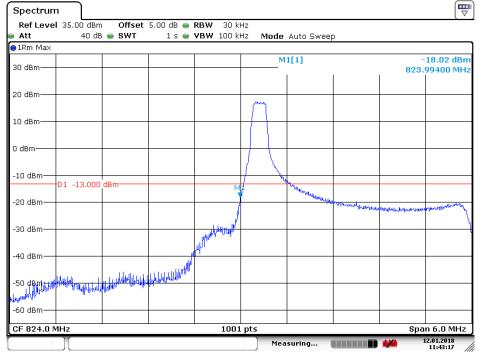
Report No.: SZEM180200138803 Page: 57 of 92

P Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 30 kHz Att 40 dB 🔵 SWT 1 s 👄 **VBW** 100 kHz Mode Auto Sweep ⊖1Rm Ma× M1[1] -29.31 dBm 30 dBm 849.00900 MH 20 dBm 10 dBm 0 dBm -10 dBm D1 -13.000 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm-CF 849.0 MHz 1001 pts Span 3.0 MHz 26.01.2018 03:16:43 Measuring...

Date: 26.JAN.2018 03:16:43

5.1.1.4 Test Mode = LTE/TM1 3MHz 5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB



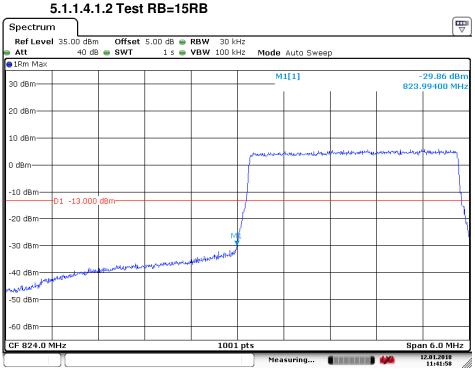
Date: 12.JAN.2018 11:43:17

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.3.2.2 Test RB=6RB



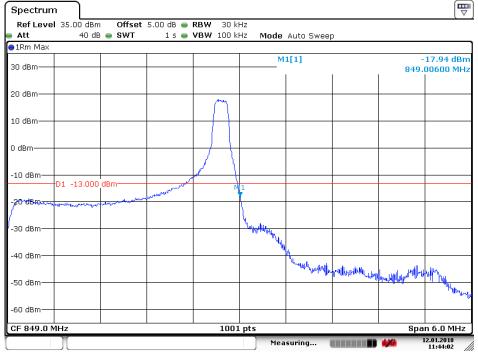
Report No.: SZEM180200138803 Page: 58 of 92



Date: 12.JAN.2018 11:41:58

5.1.1.4.2 Test Channel = HCH

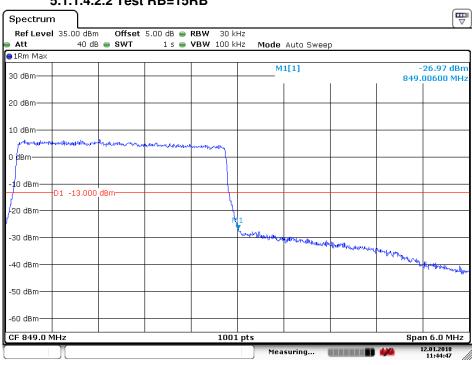
5.1.1.4.2.1 Test RB=1RB



Date: 12.JAN.2018 11:44:03

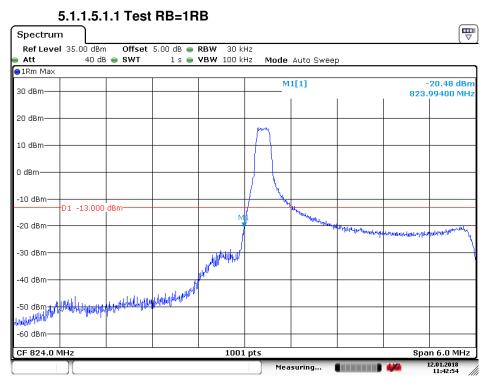


Report No.: SZEM180200138803 Page: 59 of 92



Date: 12.JAN.2018 11:44:48

5.1.1.5 Test Mode = LTE/TM2 3MHz 5.1.1.5.1 Test Channel = LCH



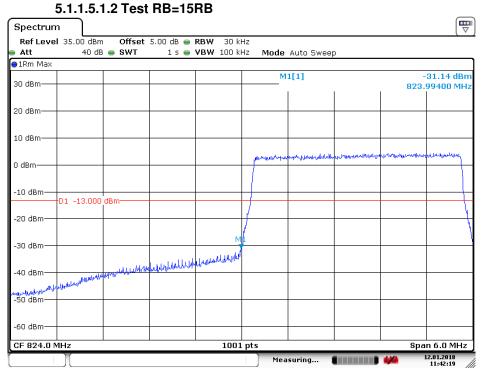
Date: 12.JAN.2018 11:42:54

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.4.2.2 Test RB=15RB



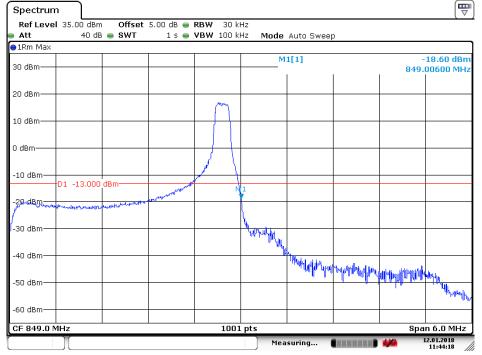
Report No.: SZEM180200138803 Page: 60 of 92



Date: 12.JAN.2018 11:42:19

5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



Date: 12.JAN.2018 11:44:19



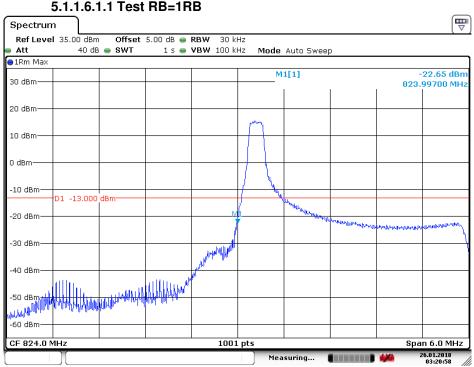
Report No.: SZEM180200138803 61 of 92 Page:



Date: 12.JAN.2018 11:44:33

5.1.1.6 Test Mode = LTE/TM3 3MHz 5.1.1.6.1 Test Channel = LCH

5.1.1.5.3 Test RB=15RB



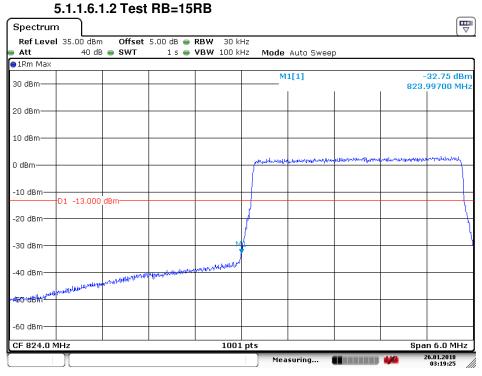
Date: 26.JAN.2018 03:20:58

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.6.1.1 Test RB=1RB



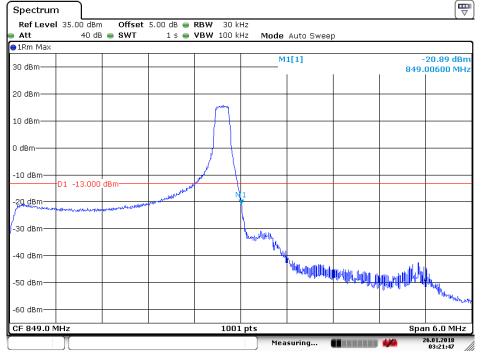
Report No.: SZEM180200138803 Page: 62 of 92



Date: 26.JAN.2018 03:19:26

5.1.1.6.2 Test Channel = HCH

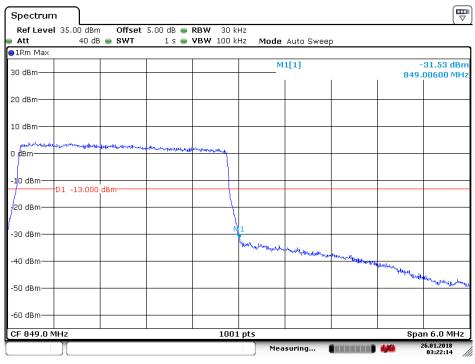
5.1.1.6.2.1 Test RB=1RB



Date: 26.JAN.2018 03:21:47



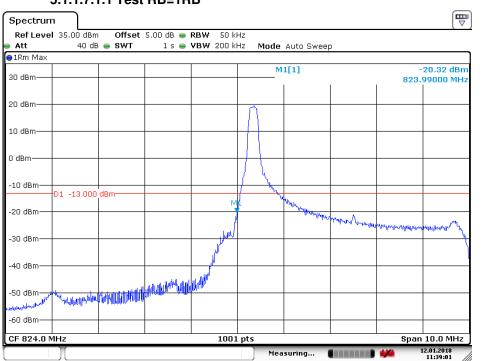
Report No.: SZEM180200138803 Page: 63 of 92



Date: 26.JAN.2018 03:22:15

5.1.1.7 Test Mode = LTE/TM1 5MHz 5.1.1.7.1 Test Channel = LCH

5.1.1.6.3 Test RB=15RB



5.1.1.7.1.1 Test RB=1RB

Date: 12.JAN.2018 11:39:01

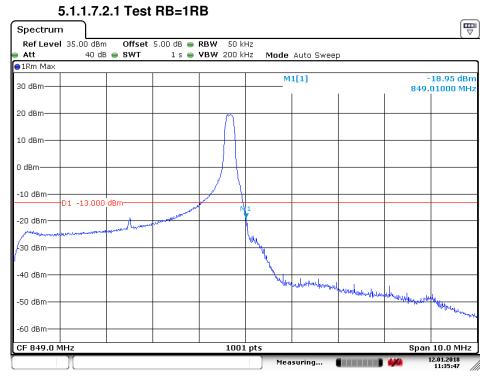


Report No.: SZEM180200138803 Page: 64 of 92

P Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 50 kHz Att 40 dB 🔵 SWT 1 s 👄 **VBW** 200 kHz Mode Auto Sweep ⊖1Rm Ma× M1[1] -29.56 dBm 30 dBm 823.99000 MH 20 dBm 10 dBm 0 dBm -10 dBm D1 -13.000 dBm--20 dBm -30 dBm -40 dBm -50 dBm -60 dBm-CF 824.0 MHz 1001 pts Span 10.0 MHz 12.01.2018 11:38:34 Measuring...

Date: 12.JAN.2018 11:38:35

5.1.1.7.2 Test Channel = HCH



Date: 12.JAN.2018 11:35:48

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.7.1.2 Test RB=25RB

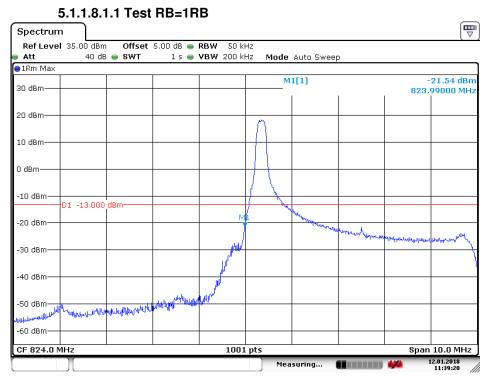


Report No.: SZEM180200138803 Page: 65 of 92

[₩] Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 50 kHz 40 dB 😑 SWT 1 s 👄 VBW 200 kHz Att Mode Auto Sweep 😑 1 Rm Max M1[1] -27.30 dBn 30 dBm 849.01000 MH 20 dBm 10 dBm 0 dBm -10 dBm D1 -13.000 dBm-20 dBm -30 dBm -40 dBm -50 dBm -60 dBm Span 10.0 MHz CF 849.0 MHz 1001 pts 12.01.2018 11:38:02 Measuring...

Date: 12.JAN.2018 11:38:03

5.1.1.8 Test Mode = LTE/TM2 5MHz 5.1.1.8.1 Test Channel = LCH



Date: 12.JAN.2018 11:39:21

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.7.2.2 Test RB=25RB

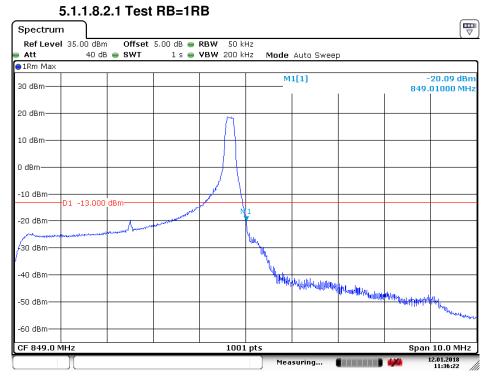


Report No.: SZEM180200138803 Page: 66 of 92

₩ Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 50 kHz Att 40 dB 🔵 SWT 1 s 👄 **VBW** 200 kHz Mode Auto Sweep ⊖1Rm Max M1[1] -30.11 dBn 30 dBm-823.99000 MH 20 dBm 10 dBm 0 dBm -10 dBm-D1 -13.000 dBm -20 dBm--30 dBm HUNNIN -40 dBm ab -50 dBm--60 dBm-CF 824.0 MHz 1001 pts Span 10.0 MHz 12.01.2018 11:40:35 Measuring...

Date: 12.JAN.2018 11:40:36

5.1.1.8.2 Test Channel = HCH



Date: 12.JAN.2018 11:36:23

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.8.1.2 Test RB=25RB



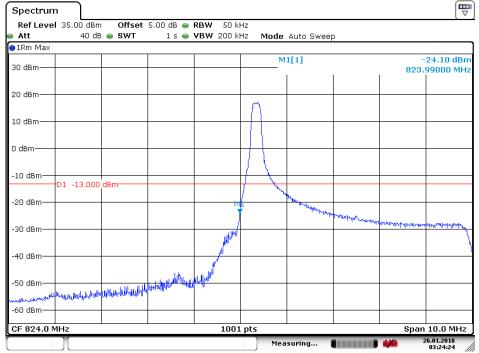
Report No.: SZEM180200138803 Page: 67 of 92

P Spectrum Ref Level 35.00 dBm Offset 5.00 dB 👄 RBW 50 kHz Att 40 dB 🔵 SWT 1 s 👄 **VBW** 200 kHz Mode Auto Sweep ⊖1Rm Ma× M1[1] -29.46 dBm 30 dBm 849.01000 MH 20 dBm 10 dBm 0 dBm -1<mark>0 dBm</mark> D1 -13.000 dBm 20 dBm -30 dBm John Jack of the property and Walkitas. -40 dBm -50 dBm -60 dBm-CF 849.0 MHz 1001 pts Span 10.0 MHz 12.01.2018 11:37:45 Measuring...

Date: 12.JAN.2018 11:37:46

5.1.1.9 Test Mode = LTE/TM3 5MHz 5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



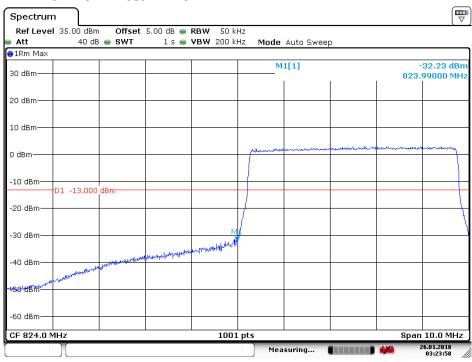
Date: 26.JAN.2018 03:24:24

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.8.2.2 Test RB=25RB



Report No.: SZEM180200138803 Page: 68 of 92



Date: 26.JAN.2018 03:23:58

5.1.1.9.2 Test Channel = HCH

5.1.1.9.2.1 Test RB=1RB [₩] Spectrum Ref Level 35.00 dBm Offset 5.00 dB RBW 50 kHz 1 s 👄 **VBW** 200 kHz 40 dB 👄 SWT Att Mode Auto Sweep ●1Rm Ma× M1[1] -23.41 dBn 30 dBm 849.01000 MHz 20 dBm 10 dBm· 0 dBm--10 dBm D1 -13.000 dBm -20 dBm WHAT YOURY 30 dBm -40 dBm ^ייאולוג<mark>ון</mark> אווייליאלאלאלעיש<mark>עווייליאטאון איי</mark>ליאי -50 dBm-**Y**MMP -60 dBm-CF 849.0 MHz 1001 pts Span 10.0 MHz 26.01.2018 03:25:04 Measuring...

Date: 26.JAN.2018 03:25:04

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.9.1.2 Test RB=25RB



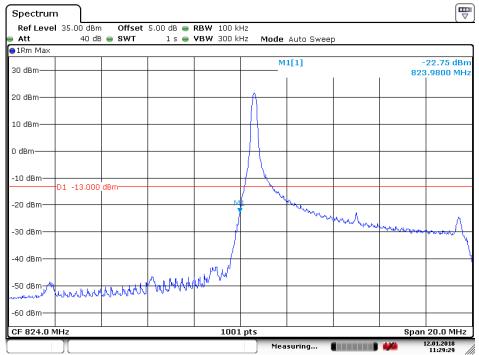
Report No.: SZEM180200138803 Page: 69 of 92

P Spectrum Ref Level 35.00 dBm Offset 5.00 dB 🖷 RBW 50 kHz Att 40 dB 👄 SWT 1 s 👄 **VBW** 200 kHz Mode Auto Sweep ⊖1Rm Max M1[1] -32.84 dBn 30 dBm-849.01000 MH 20 dBm 10 dBm 0 dBm -10 dBm D1 -13.000 dBm -20 dBm -30 dBm whitemakelly -40 dBm Wildow . -50 dBm -60 dBm-CF 849.0 MHz 1001 pts Span 10.0 MHz 26.01.2018 03:25:26 Measuring...

Date: 26.JAN.2018 03:25:26

5.1.1.10 Test Mode = LTE/TM1 10MHz 5.1.1.10.1 Test Channel = LCH

5.1.1.10.1.1 Test RB=1RB



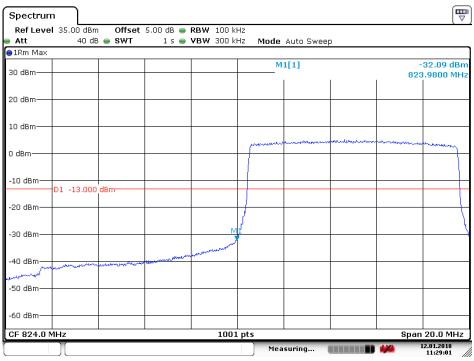
Date: 12.JAN.2018 11:29:30

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5.1.1.9.2.2 Test RB=25RB



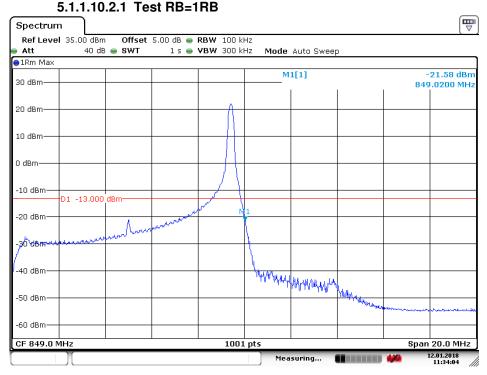
Report No.: SZEM180200138803 Page: 70 of 92



5.1.1.10.1.2 Test RB=50RB

Date: 12.JAN.2018 11:29:01

5.1.1.10.2 Test Channel = HCH



Date: 12.JAN.2018 11:34:04



Report No.: SZEM180200138803 Page: 71 of 92

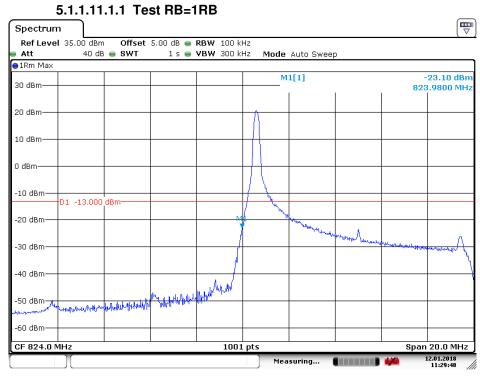


5.1.1.10.2.2 Test RB=50RB

Date: 12.JAN.2018 11:32:56

5.1.1.11 Test Mode = LTE/TM2 10MHz

5.1.1.11.1 Test Channel = LCH



Date: 12.JAN.2018 11:29:48



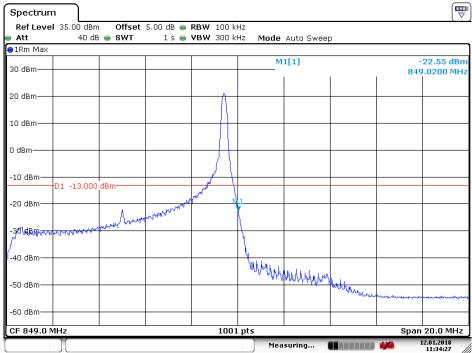
Report No.: SZEM180200138803 Page: 72 of 92



5.1.1.11.1.2 Test RB=50RB

Date: 12.JAN.2018 11:30:17

5.1.1.11.2 Test Channel = HCH



5.1.1.11.2.1 Test RB=1RB

Date: 12.JAN.2018 11:34:28



Report No.: SZEM180200138803 Page: 73 of 92



5.1.1.11.2.2 Test RB=50RB

Date: 12.JAN.2018 11:31:28

5.1.1.12 Test Mode = LTE/TM3 10MHz 5.1.1.12.1 Test Channel = LCH

5.1.1.12.1.1 Test RB=1RB

Spectrum	ן ו									1
Ref Level					RBW 100					
Att 🛛	4	0 dB	SWT	1 s (VBW 300	kHz Mode	Auto Swee	ep		
●1Rm Max										
30 dBm						W	11[1] 	1		-23.86 dBr 3.9800 MH
20 dBm						Δ				
10 dBm						\downarrow				
0 dBm										
-10 dBm										
	D1 -13	.000	dBm							
-20 dBm						M	an che way way and	marched Andrewsky		
-30 dBm						1		- many bullety	al al and the second	when a water
-40 dBm					/	[
-50 dBm			uchurulu	A Carlot	in Mary w					
-60 dBm	enseljekter Markana	and the	arch an ora	10 ° °						
CF 824.0 M	1Hz				10)1 pts			 Span	 1 20.0 MHz
						Me	asuring		440	26.01.2018 03:29:28

Date: 26.JAN.2018 03:29:29



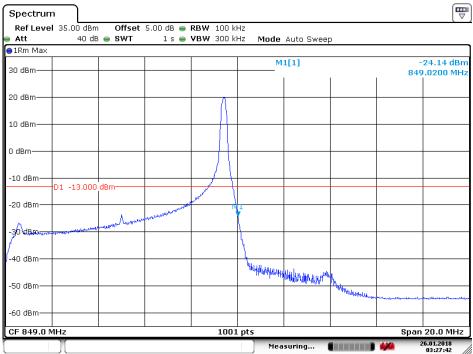
Report No.: SZEM180200138803 Page: 74 of 92



5.1.1.12.1.2 Test RB=50RB

Date: 26.JAN.2018 03:29:54

5.1.1.12.2 Test Channel = HCH

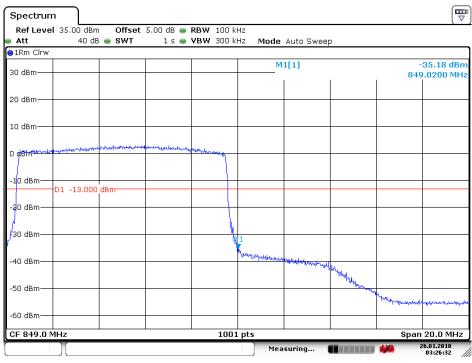


5.1.1.12.2.1 Test RB=1RB

Date: 26.JAN.2018 03:27:42



Report No.: SZEM180200138803 Page: 75 of 92

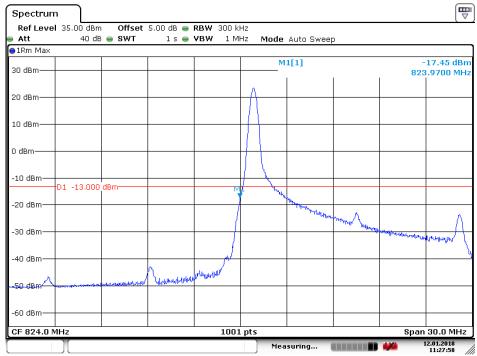


5.1.1.12.2.2 Test RB=50RB

Date: 26.JAN.2018 03:26:32

5.1.1.13 Test Mode = LTE/TM1 15MHz 5.1.1.13.1 Test Channel = LCH

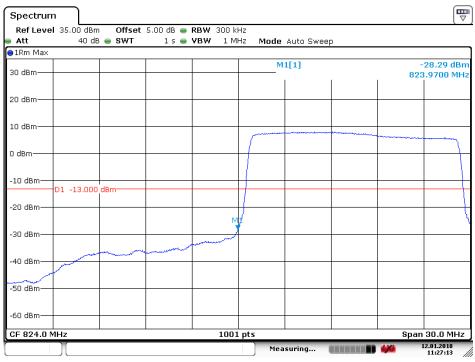
5.1.1.13.1.1 Test RB=1RB



Date: 12.JAN.2018 11:27:59



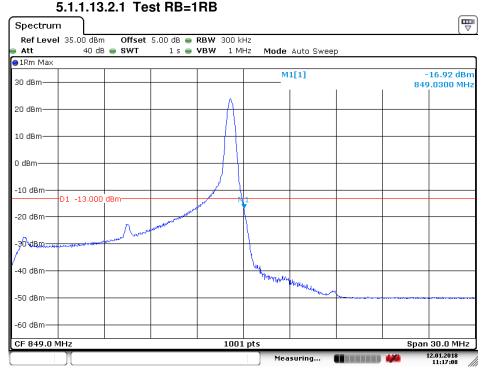
Report No.: SZEM180200138803 Page: 76 of 92



5.1.1.13.1.2 Test RB=75RB

Date: 12.JAN.2018 11:27:14

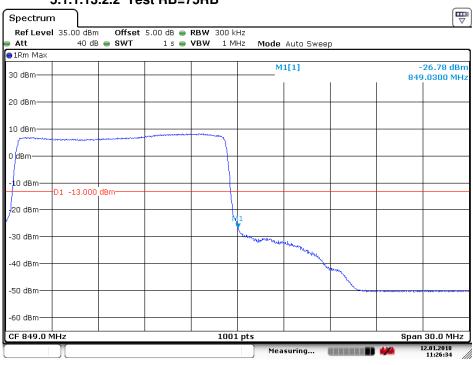
5.1.1.13.2 Test Channel = HCH



Date: 12.JAN.2018 11:17:09



Report No.: SZEM180200138803 Page: 77 of 92

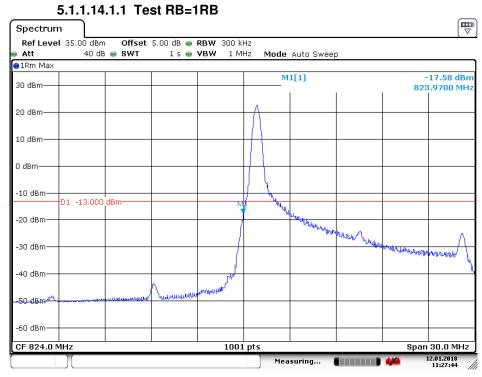


5.1.1.13.2.2 Test RB=75RB

Date: 12.JAN.2018 11:26:34

5.1.1.14 Test Mode = LTE/TM2 15MHz

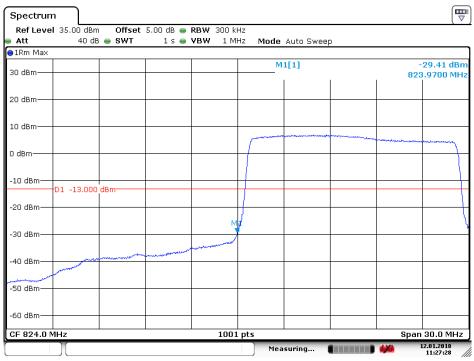
5.1.1.14.1 Test Channel = LCH



Date: 12.JAN.2018 11:27:44



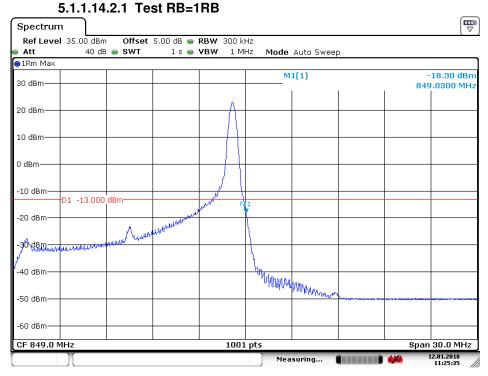
Report No.: SZEM180200138803 Page: 78 of 92



5.1.1.14.1.2 Test RB=75RB

Date: 12.JAN.2018 11:27:28

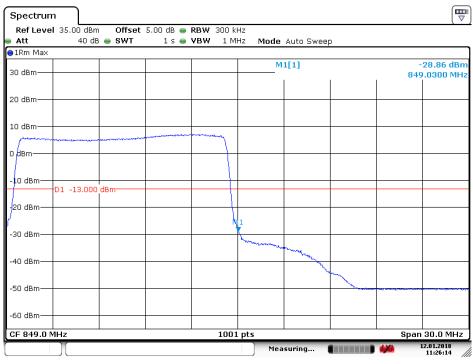
5.1.1.14.2 Test Channel = HCH



Date: 12.JAN.2018 11:25:36



Report No.: SZEM180200138803 Page: 79 of 92



5.1.1.14.2.2 Test RB=75RB

Date: 12.JAN.2018 11:26:15

5.1.1.15 Test Mode = LTE/TM3 15MHz 5.1.1.15.1 Test Channel = LCH

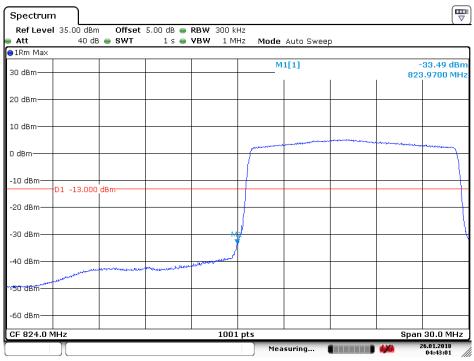
5.1.1.15.1.1 Test RB=1RB

∋1Rm Max								
30 dBm				M	1[1] 	1		-18.99 dBi 3.9700 MH
20 dBm				Λ				
10 dBm				\square				
0 dBm								
-10 dBm—	D1 -13.000) dBm	M					
-20 dBm				* ``	an an an an a share and a share and a			
-30 dBm						handred of the second	alleshare and	dimeter with
-40 dBm			 M					
-50-d8m 🐣			and the second second					
-60 dBm								

Date: 26.JAN.2018 03:32:51



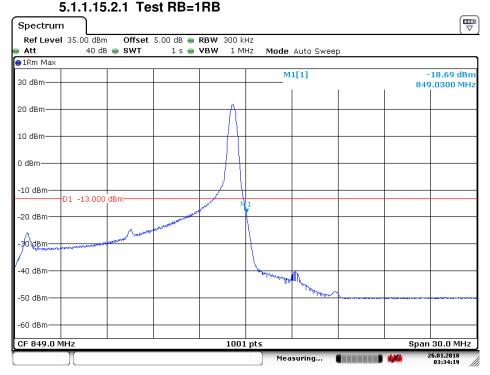
Report No.: SZEM180200138803 Page: 80 of 92



5.1.1.15.1.2 Test RB=75RB

Date: 26.JAN.2018 04:43:01

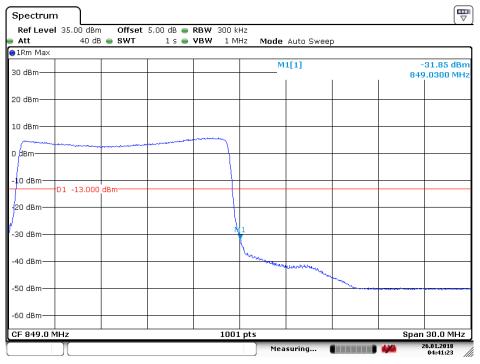
5.1.1.15.2 Test Channel = HCH



Date: 26.JAN.2018 03:34:20



Report No.: SZEM180200138803 Page: 81 of 92



5.1.1.15.2.2 Test RB=75RB

Date: 26.JAN.2018 04:41:23



Report No.: SZEM180200138803 Page: 82 of 92

6 Spurious Emission at Antenna Terminal

Test Mode = LTE / TM1 15MHz RB1#0

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB. Part I - Test Plots

6.1 For LTE

6.1.1.1

6.1.1.1.1 Test Channel = LCH 9 Spectrum Ref Level 25.00 dBm Offset 5.00 dB 👄 RBW 100 kHz Att 30 dB 💿 SWT 1.1 ms 👄 VBW 300 kHz Mode Auto FFT 😑 1Pk Max M1[1] -38.14 dBn 20 dBm 818.1100 MH 10 dBm 0 dBm· -10 dBm D1 -13.000 dBm -20 dBm -30 dBm 11 -40 dBm -50 dBm dbm -70 dBm Start 30.0 MH 20001 pts Stop 1.0 GHz .01.2018 11:13:58 Measuring...

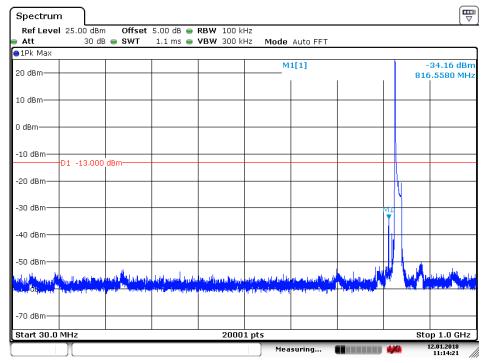
Date: 12.JAN.2018 11:13:58



									eport No. age:	.: SZEM180200138803 83 of 92
Spectrun Ref Leve Att	el 25.00 dBm	Offset	5.00 dB 🖷	RBW 1 MHz VBW 3 MHz		uto Sweep				
1Pk Max										
20 dBm					M	1[1]	1		34.06 dBm 49990 GHz	
10 dBm										
0 dBm										
-10 dBm—	D1 -13.000	dBm								
-20 dBm—										
-30 dBm1										
-40 dBm			. In an in the state	and the first of the stand	and the second states of the	a succession and the succession of the successio	changeler, consol		litellised a strategy of the	
والمراقلة ومعلواته	a probably and black	and the second second second	an an an a find an	aparan terapolisi	and the second se	He state	all and a standard stand	and the second s	Achieve and services and	
enpresidentifi ^{erene}	a ya									
-60 dBm—										
-70 dBm										
Start 1.0 (GHz			2000				· ·	10.0 GHz	
					Mea	suring		4/4	12.01.2018 11:13:08	

Date: 12.JAN.2018 11:13:08





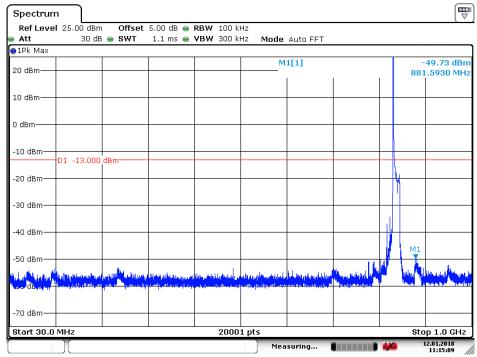
Date: 12.JAN.2018 11:14:21



								R	eport No	.: SZEM180200138803
								P	age:	84 of 92
	n 1 25.00 dBm	n Offset	5.00 dB 👄	RBW 1 MHz	2					
Att 1Pk Max	30 dE	3 🖷 SWT	30 ms 👄	VBW 3 MHz	Mode A	uto Sweep				
●1Pk Max		1				4541			05.17.40	
20 dBm					W	1[1]	1		35.17 dBm 59440 GHz	
10 dBm										
0 dBm										
-10 dBm—	D1 -13.000	dBm								
-20 dBm—										
-30 dBm										
-40 dBm		a a filitera	ال عادراء و العار العار ال	المتقالين وخلوه	C. C		and a state of the second	المرابع ومعرفا المرابع	And A	
	لدر أمرين ومالك فيتنا أرار وي أو فطعرة فعر بمن متراطة ريس و	and a second	and the second staff of the same	and the second second			and have been provided	paper and a second	and the second second	
waatabii1 ^{atala}										
-60 dBm—										
-70 dBm—										
Start 1.0 C	GHz			2000	1 pts				10.0 GHz	
					Mea	suring		4/4	12.01.2018 11:12:49	

Date: 12.JAN.2018 11:12:49





Date: 12.JAN.2018 11:15:09



	_								Page:	.: SZEM180200138803 85 of 92
Spectrum										
Ref Level 2				RBW 1 MHz						
Att	30 dB	SWT	30 ms 😑 '	VBW 3 MHz	Mode A	uto Sweep				
●1Pk Max	r								01.00.40	
20 dBm					IVI	1[1] I	I	1	-31.99 dBm L.669790 GHz	
10 dBm										
0 dBm										
-10 dBm	1 -13.000	dBm								
-20 dBm										
-30 dBm										
-40 dBm	anti bianti	فحماو والمرور المقرورون	ال المقال السرومين	Lako ganilina anati		a di la cale.	ويعدون البرائلل ورجاء	and participation of the	allia alla statica, anno seconda al	
in a substantial data and			and the second s				a dina papatén di sebagai sebag	hand the second		
-50 dBm										
-60 dBm										
-70 dBm										
Start 1.0 GH	z			2000:	L pts	1	1	St	op 10.0 GHz	
					Mea	suring		4/4	12.01.2018 11:12:25	

Date: 12.JAN.2018 11:12:26



Report No.: SZEM180200138803 Page: 86 of 92

7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band26

Remark: Only RSE were test in this report.

Diversity antenna

7.1.1.1 Test Mode =LTE/TM1 15MHz RB1#0

7.1.1.1.1	Test Channel = LC	H		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
40.546667	-70.58	-13.00	57.58	Vertical
74.986667	-71.16	-13.00	58.16	Vertical
164.820000	-70.76	-13.00	57.76	Vertical
1649.000000	-61.46	-13.00	48.46	Vertical
2473.500000	-59.01	-13.00	46.01	Vertical
3298.350000	-63.31	-13.00	50.31	Vertical
73.306667	-73.02	-13.00	60.02	Horizontal
165.146667	-71.68	-13.00	58.68	Horizontal
1649.000000	-58.99	-13.00	45.99	Horizontal
2473.500000	-56.86	-13.00	43.86	Horizontal
3298.350000	-55.79	-13.00	42.79	Horizontal
6468.075000	-65.26	-13.00	52.26	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
40.966667	-63.81	-13.00	50.81	Vertical
166.126667	-63.76	-13.00	50.76	Vertical
1664.000000	-59.92	-13.00	46.92	Vertical
2496.000000	-60.72	-13.00	47.72	Vertical
3328.087500	-64.46	-13.00	51.46	Vertical
6146.325000	-65.25	-13.00	52.25	Vertical
73.586667	-72.39	-13.00	59.39	Horizontal
164.026667	-65.70	-13.00	52.70	Horizontal
1664.000000	-60.01	-13.00	47.01	Horizontal
2496.000000	-58.86	-13.00	45.86	Horizontal
3328.087500	-58.12	-13.00	45.12	Horizontal
6595.800000	-65.22	-13.00	52.22	Horizontal



Report No.: SZEM180200138803 Page: 87 of 92

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
39.706667	-71.32	-13.00	58.32	Vertical
74.986667	-70.27	-13.00	57.27	Vertical
166.126667	-66.54	-13.00	53.54	Vertical
1679.000000	-59.82	-13.00	46.82	Vertical
2518.500000	-62.35	-13.00	49.35	Vertical
3358.312500	-65.07	-13.00	52.07	Vertical
72.326667	-75.83	-13.00	62.83	Horizontal
165.100000	-68.88	-13.00	55.88	Horizontal
1679.000000	-58.91	-13.00	45.91	Horizontal
2518.500000	-51.25	-13.00	38.25	Horizontal
3358.312500	-58.56	-13.00	45.56	Horizontal
6472.462500	-65.19	-13.00	52.19	Horizontal

7.1.1.1.3 Test Channel = HCH

Main antenna

7.1.1.2 Test Mode =LTE/TM1 15MHz RB1#0

7.1.1.2.1	Test Channel = LC	H		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
38.773333	-80.25	-13.00	67.25	Vertical
332.213333	-72.79	-13.00	59.79	Vertical
1649.000000	-57.68	-13.00	44.68	Vertical
2473.500000	-53.33	-13.00	40.33	Vertical
3298.350000	-60.03	-13.00	47.03	Vertical
4122.712500	-63.49	-13.00	50.49	Vertical
62.760000	-74.80	-13.00	61.80	Horizontal
320.453333	-77.35	-13.00	64.35	Horizontal
1649.000000	-73.49	-13.00	60.49	Horizontal
2473.500000	-58.10	-13.00	45.10	Horizontal
3297.862500	-60.43	-13.00	47.43	Horizontal
4122.712500	-64.83	-13.00	51.83	Horizontal

7.1.1.2.1 Test Channel = LCH



Report No.: SZEM180200138803 Page: 88 of 92

7.1.1.2.2	Test Channel = M	СН		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.393333	-81.63	-13.00	68.63	Vertical
325.213333	-72.40	-13.00	59.40	Vertical
1664.000000	-55.60	-13.00	42.60	Vertical
2496.000000	-60.67	-13.00	47.67	Vertical
3328.087500	-62.52	-13.00	49.52	Vertical
4160.250000	-57.56	-13.00	44.56	Vertical
62.760000	-76.36	-13.00	63.36	Horizontal
328.433333	-78.52	-13.00	65.52	Horizontal
1664.000000	-58.79	-13.00	45.79	Horizontal
3328.087500	-65.76	-13.00	52.76	Horizontal
4160.250000	-57.71	-13.00	44.71	Horizontal
5824.087500	-64.40	-13.00	51.40	Horizontal

7.1.1.2.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
38.960000	-80.75	-13.00	67.75	Vertical
336.600000	-73.42	-13.00	60.42	Vertical
1679.000000	-53.53	-13.00	46.53	Vertical
2518.500000	-56.49	-13.00	43.49	Vertical
3357.825000	-63.23	-13.00	50.23	Vertical
4197.787500	-59.09	-13.00	46.09	Vertical
63.740000	-77.34	-13.00	64.34	Horizontal
319.426667	-76.96	-13.00	63.96	Horizontal
1679.500000	-57.38	-13.00	44.38	Horizontal
3358.312500	-65.58	-13.00	52.58	Horizontal
4197.787500	-59.16	-13.00	46.16	Horizontal
5876.737500	-63.82	-13.00	50.82	Horizontal

NOTE:

 All modes are tested, but the data presented above is the worst case. the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Report No.: SZEM180200138803 Page: 89 of 92

8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				VL	-2.66	-0.00320	PASS
		LCH	TN	VN	1.42	0.00171	PASS
				VH	-5.23	-0.00629	PASS
				VL	-1.56	-0.00187	PASS
	LTE/TM1 15MHz	MCH	TN	VN	-2.80	-0.00335	PASS
				VH	1.72	0.00206	PASS
				VL	-5.36	-0.00637	PASS
		HCH	TN	VN	-4.90	-0.00582	PASS
				VH	-1.88	-0.00223	PASS
				VL	-4.30	-0.00517	PASS
		LCH	TN	VN	-3.33	-0.00400	PASS
				VH	-4.13	-0.00497	PASS
		МСН	TN	VL	1.20	0.00143	PASS
LTE band26	LTE/TM2 15MHz			VN	-3.99	-0.00477	PASS
				VH	1.63	0.00195	PASS
		НСН	TN	VL	-2.01	-0.00239	PASS
				VN	-6.10	-0.00725	PASS
				VH	5.11	0.00607	PASS
				VL	4.02	0.00483	PASS
		LCH	TN	VN	5.01	0.00603	PASS
				VH	-0.54	-0.00065	PASS
				VL	-1.78	-0.00213	PASS
	LTE/TM3 15MHz	MCH	TN	VN	2.89	0.00346	PASS
				VH	4.01	0.00479	PASS
				VL	-4.02	-0.00478	PASS
		HCH	TN	VN	2.69	0.00320	PASS
				VH	3.84	0.00456	PASS



Report No.: SZEM180200138803 Page: 90 of 92

8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		LCH	VN	-30	-4.39	-0.00528	PASS
				-20	-2.6	-0.00313	PASS
	LTE/TM1 15MHz			-10	-2.47	-0.00297	PASS
				0	1.22	0.00147	PASS
				10	1.20	0.00144	PASS
				20	3.90	0.00469	PASS
LTE band26				30	-0.65	-0.00078	PASS
				40	-2.79	-0.00336	PASS
				50	-6.2	-0.00746	PASS
		МСН	VN	-30	-5.90	-0.00705	PASS
				-20	-5.24	-0.00626	PASS
				-10	-3.38	-0.00404	PASS
				0	-1.59	-0.00190	PASS
				10	-2.24	-0.00268	PASS
				20	-3.68	-0.00440	PASS
				30	-3.74	-0.00447	PASS
				40	-4.89	-0.00585	PASS
				50	-5.43	-0.00649	PASS
		нсн	VN	-30	-6.65	-0.00790	PASS
				-20	-3.26	-0.00387	PASS
				-10	0.69	0.00082	PASS
				0	-2.48	-0.00295	PASS
				10	2.46	0.00292	PASS
				20	-0.33	-0.00039	PASS
				30	-2.69	-0.00320	PASS
				40	-4.37	-0.00519	PASS
				50	-3.85	-0.00458	PASS



Report No.: SZEM180200138803 Page: 91 of 92

				Page: 91 of 92			
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2 15MHz	LCH	VN	-30	-3.65	-0.00439	PASS
				-20	-2.46	-0.00296	PASS
				-10	1.27	0.00153	PASS
				0	2.23	0.00268	PASS
				10	1.76	0.00212	PASS
				20	-0.82	-0.00099	PASS
				30	-3.84	-0.00462	PASS
				40	2.26	0.00272	PASS
				50	-4.82	-0.00580	PASS
		МСН	VN	-30	-3.37	-0.00403	PASS
				-20	-2.63	-0.00314	PASS
LTE band26				-10	-2.19	-0.00262	PASS
				0	-1.82	-0.00218	PASS
				10	-0.76	-0.00091	PASS
				20	1.24	0.00148	PASS
				30	-2.23	-0.00267	PASS
				40	-6.79	-0.00812	PASS
				50	-5.42	-0.00648	PASS PASS PASS PASS PASS PASS PASS PASS
				-30	-3.47	-0.00412	PASS
		нсн	VN	-20	-4.79	-0.00569	PASS
				-10	2.38	0.00283	PASS
				0	-3.58	-0.00425	PASS
				10	2.29	0.00272	PASS
				20	-1.49	-0.00177	PASS
				30	-3.29	-0.00391	PASS
				40	-4.07	-0.00484	PASS
				50	-4.52	-0.00537	PASS



Report No.: SZEM180200138803 Page: 92 of 92

				Page: 92 of 92			
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM3 15MHz	LCH	VN	-30	-3.67	-0.00441	PASS
				-20	-2.44	-0.00293	PASS
				-10	1.89	0.00227	PASS
				0	2.35	0.00283	PASS
				10	1.78	0.00214	PASS
				20	-0.89	-0.00107	PASS
				30	-3.83	-0.00461	PASS
LTE band26				40	2.45	0.00295	PASS
				50	-4.38	-0.00527	PASS
		МСН	VN	-30	-3.49	-0.00417	PASS
				-20	-2.20	-0.00263	PASS
				-10	-2.89	-0.00346	PASS
				0	-1.30	-0.00155	PASS
				10	-0.69	-0.00082	PASS
				20	1.39	0.00166	PASS
				30	-2.20	-0.00263	PASS
				40	-6.50	-0.00777	PASS
				50	-5.97	-0.00714	PASS PASS PASS PASS PASS PASS PASS
				-30	-3.58	-0.00425	PASS
		нсн	VN	-20	-4.59	-0.00545	PASS
				-10	2.59	0.00308	PASS
				0	-3.38	-0.00402	PASS
				10	2.59	0.00308	PASS
				20	-1.26	-0.00150	PASS
				30	-3.38	-0.00402	PASS
				40	-4.69	-0.00557	PASS
				50	-4.38	-0.00520	PASS

The End