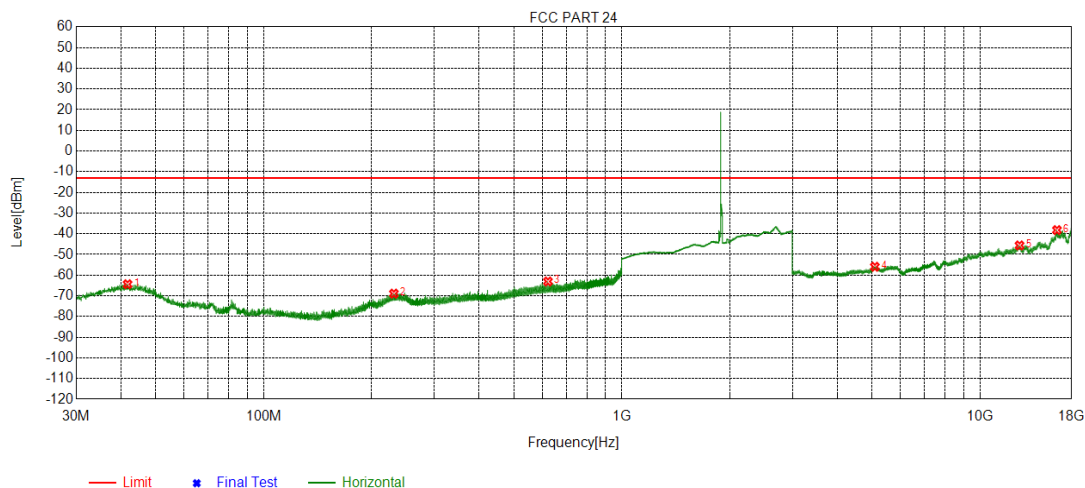


### 7.2.1.1.2. Test Channel = MCH

#### 7.2.1.1.2.1. Horizontal



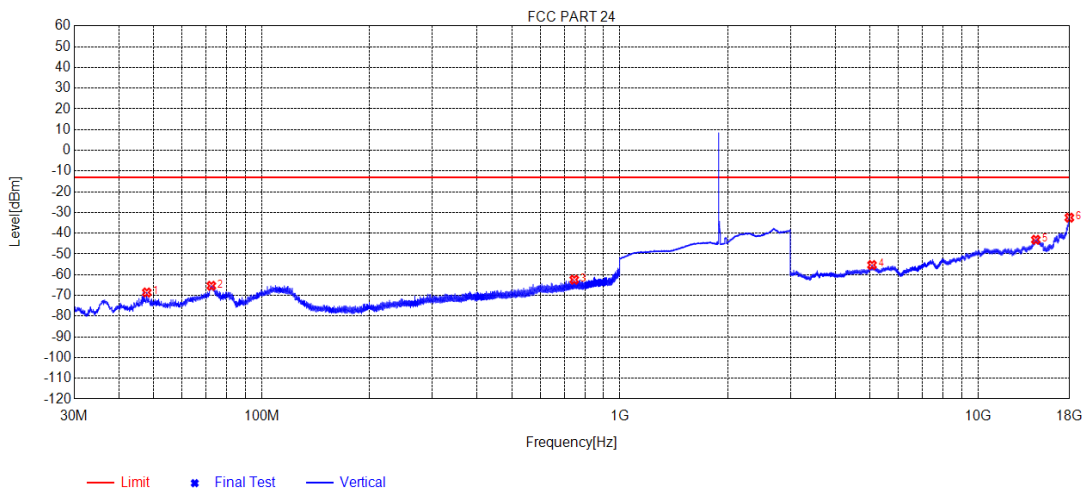
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.7376	-71.24	-64.39	-13.00	51.39	6.85	Horizontal
2	231.1396	-71.75	-68.92	-13.00	55.92	2.83	Horizontal
3	622.3116	-70.78	-63.04	-13.00	50.04	7.74	Horizontal
4	5089.069	-77.49	-55.93	-13.00	42.93	21.56	Horizontal
5	12896.82	-78.47	-45.63	-13.00	32.63	32.84	Horizontal
6	16399.44	-75.72	-38.21	-13.00	25.21	37.51	Horizontal



Unless otherwise agreed in writing, 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-Documents.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 documents. 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.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

### 7.2.1.1.2.2. Vertical



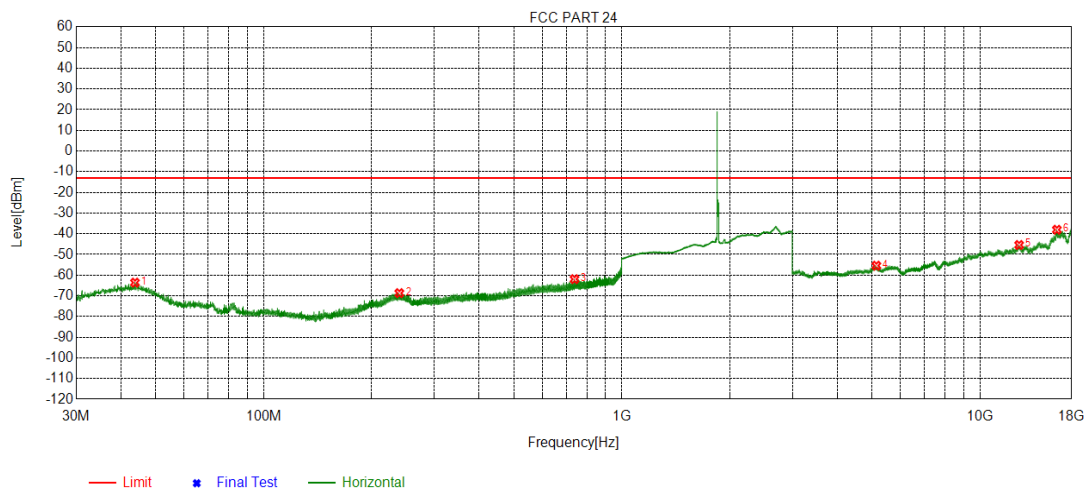
Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	47.8489	-66.93	-68.59	-13.00	55.59	-1.66	Vertical
2	72.4396	-66.52	-65.35	-13.00	52.35	1.17	Vertical
3	746.2838	-71.96	-62.41	-13.00	49.41	9.55	Vertical
4	5060.568	-76.45	-55.33	-13.00	42.33	21.12	Vertical
5	14502.88	-78.73	-43.13	-13.00	30.13	35.60	Vertical
6	17990.99	-76.91	-32.46	-13.00	19.46	44.45	Vertical



Unless otherwise agreed in writing, 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-Documents.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 documents. 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.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

### 7.2.1.1.3. Test Channel = HCH

#### 7.2.1.1.3.1. Horizontal

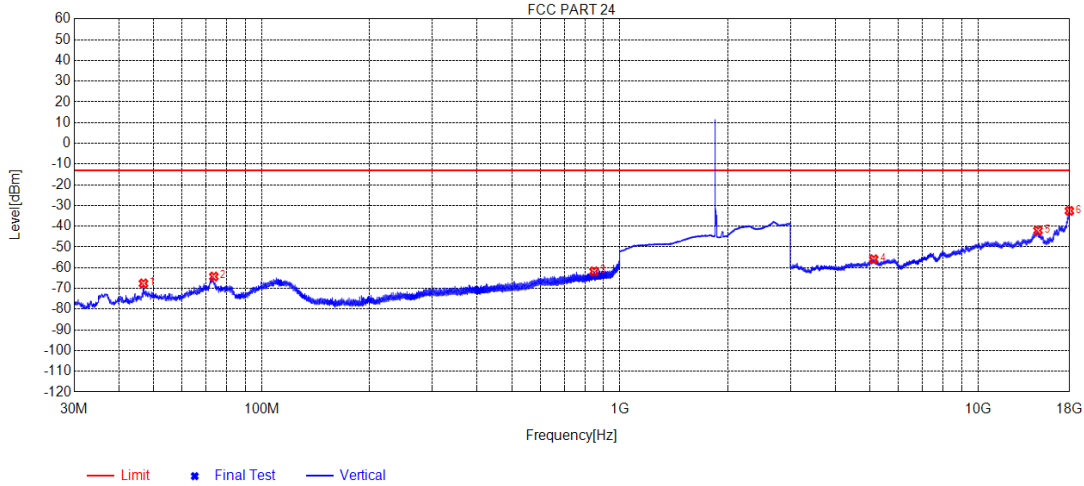


Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	43.7747	-70.57	-63.61	-13.00	50.61	6.96	Horizontal
2	239.4335	-71.48	-68.69	-13.00	55.69	2.79	Horizontal
3	738.2324	-71.51	-61.94	-13.00	48.94	9.57	Horizontal
4	5138.071	-76.92	-55.42	-13.00	42.42	21.50	Horizontal
5	12859.82	-78.03	-45.41	-13.00	32.41	32.62	Horizontal
6	16393.44	-75.43	-38.04	-13.00	25.04	37.39	Horizontal



Unless otherwise agreed in writing, 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-Documents.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 documents. 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.

**7.2.1.1.3.2. Vertical**



Suspected Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	46.8303	-65.72	-67.60	-13.00	54.60	-1.88	Vertical
2	73.6037	-65.25	-64.28	-13.00	51.28	0.97	Vertical
3	847.8964	-72.49	-61.77	-13.00	48.77	10.72	Vertical
4	5117.570	-77.15	-55.94	-13.00	42.94	21.21	Vertical
5	14709.39	-77.95	-42.07	-13.00	29.07	35.88	Vertical
6	17998.50	-77.20	-32.58	-13.00	19.58	44.62	Vertical

**Remark:**

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



Unless otherwise agreed in writing, 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 documents. 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.  
 Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	VL	NT	4.19	0.002253	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	4.21	0.002263	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	4.45	0.002392	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-4.19	-0.002229	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-4.61	-0.002452	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-4.39	-0.002335	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	-4.66	-0.002453	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	-5.24	-0.002758	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	-4.08	-0.002147	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VL	NT	3.71	0.001995	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VN	NT	4.63	0.002489	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	VH	NT	3.35	0.001801	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VL	NT	-3.78	-0.002011	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VN	NT	-4.42	-0.002351	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	VH	NT	-5.04	-0.002681	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VL	NT	-4.58	-0.002411	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VN	NT	-4.15	-0.002184	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	VH	NT	-5.31	-0.002795	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VL	NT	3.93	0.002113	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VN	NT	4.55	0.002446	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VH	NT	4.21	0.002263	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VL	NT	-4.02	-0.002138	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VN	NT	-3.92	-0.002085	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VH	NT	-3.75	-0.001995	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VL	NT	-4.84	-0.002547	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VN	NT	-3.71	-0.001953	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VH	NT	-4.72	-0.002484	±2.5	PASS

### 8.2. Frequency Vs Temperature

Temperature
-------------



Unless otherwise agreed in writing, 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 documents. 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.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch  
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	3.13	0.001683	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	3.98	0.002140	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	3.83	0.002059	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	4.18	0.002247	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	4.15	0.002231	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	4.51	0.002425	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	4.58	0.002462	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	3.81	0.002048	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-1.00	-0.000532	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-1.00	-0.000532	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-5.62	-0.002989	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-4.13	-0.002197	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-4.68	-0.002489	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-4.88	-0.002596	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-4.22	-0.002245	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-3.23	-0.001718	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	-4.51	-0.002374	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	-5.41	-0.002847	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	-4.09	-0.002153	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-4.35	-0.002289	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	-4.29	-0.002258	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	-4.13	-0.002174	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	-4.43	-0.002332	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	-5.61	-0.002953	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-30	5.87	0.003156	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	-20	5.08	0.002731	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	0	3.82	0.002054	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	10	4.03	0.002167	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	20	4.72	0.002538	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	30	3.86	0.002075	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	40	4.15	0.002231	±2.5	PASS
Band2	20MHz	64QAM	18700	100RB#0	NV	50	4.62	0.002484	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-30	-4.56	-0.002426	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	-20	-5.04	-0.002681	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	0	-5.12	-0.002723	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	10	-4.89	-0.002601	±2.5	PASS



Unless otherwise agreed in writing, 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-Documents.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 documents. 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.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



Band2	20MHz	64QAM	18900	100RB#0	NV	20	-5.25	-0.002793	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	30	-5.69	-0.003027	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	40	-9.13	-0.004856	±2.5	PASS
Band2	20MHz	64QAM	18900	100RB#0	NV	50	-4.35	-0.002314	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-30	-4.73	-0.002489	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	-20	-5.19	-0.002732	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	0	-4.95	-0.002605	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	10	-4.35	-0.002289	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	20	-4.59	-0.002416	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	30	-4.62	-0.002432	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	40	-4.21	-0.002216	±2.5	PASS
Band2	20MHz	64QAM	19100	100RB#0	NV	50	-5.35	-0.002816	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-30	3.82	0.002054	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-20	4.22	0.002269	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	0	1.70	0.000914	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	10	1.80	0.000968	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	20	1.20	0.000645	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	30	1.40	0.000753	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	40	1.40	0.000753	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	50	1.90	0.001022	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-30	-3.55	-0.001888	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-20	-3.79	-0.002016	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	0	-4.41	-0.002346	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	10	-3.83	-0.002037	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	20	-3.85	-0.002048	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	30	-4.31	-0.002293	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	40	-3.99	-0.002122	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	50	-4.36	-0.002319	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-30	-4.75	-0.002500	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-20	-4.45	-0.002342	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	0	-3.89	-0.002047	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	10	-5.01	-0.002637	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	20	-4.18	-0.002200	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	30	-5.81	-0.003058	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	40	-4.29	-0.002258	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	50	-4.43	-0.002332	±2.5	PASS

The End



Unless otherwise agreed in writing, 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-Documents.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 documents. 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.  
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch  
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn  
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com