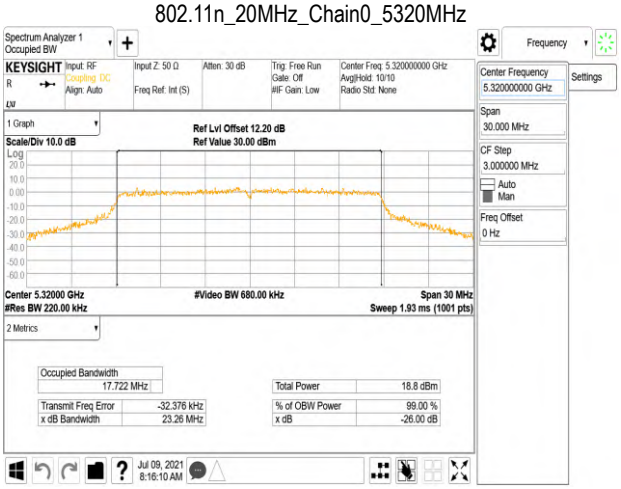
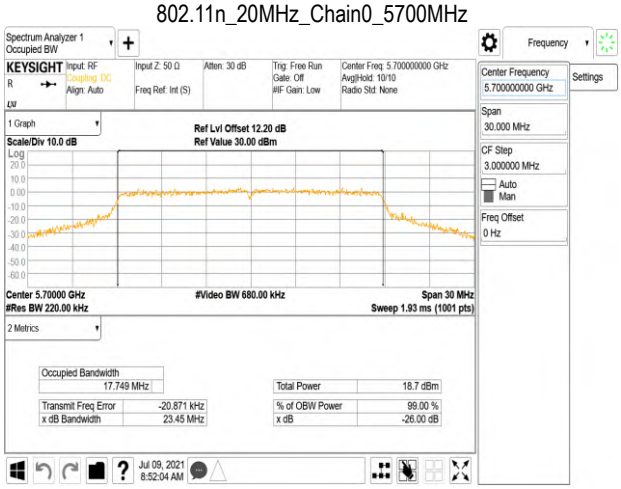
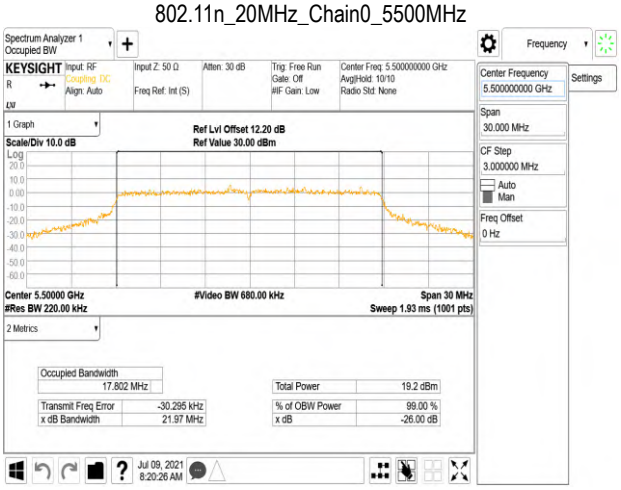
802.11n_20MHz_Chain0_5320MHz



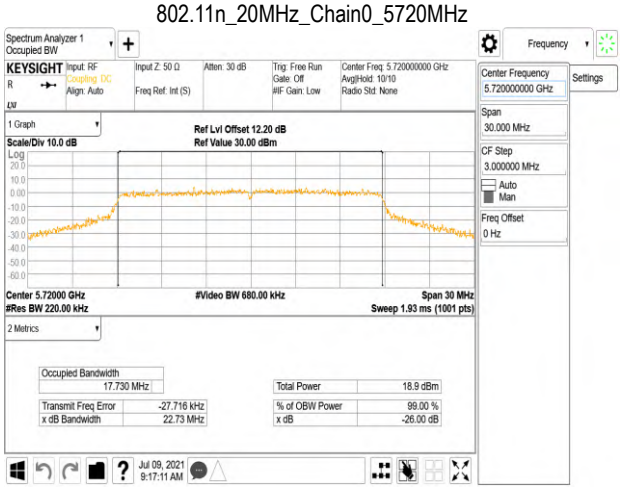
802.11n_20MHz_Chain0_5700MHz



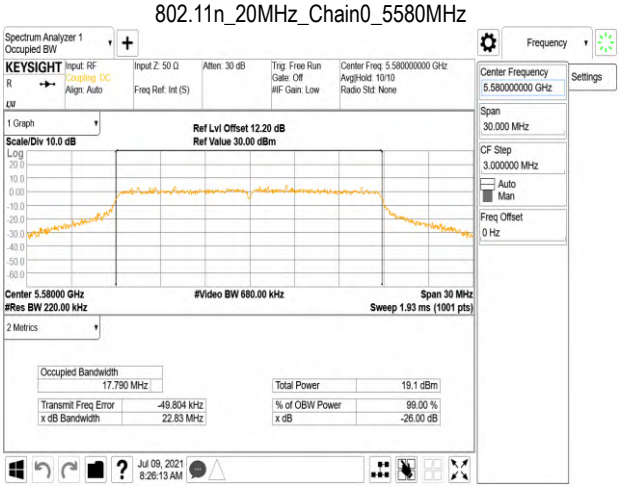
802.11n_20MHz_Chain0_5500MHz



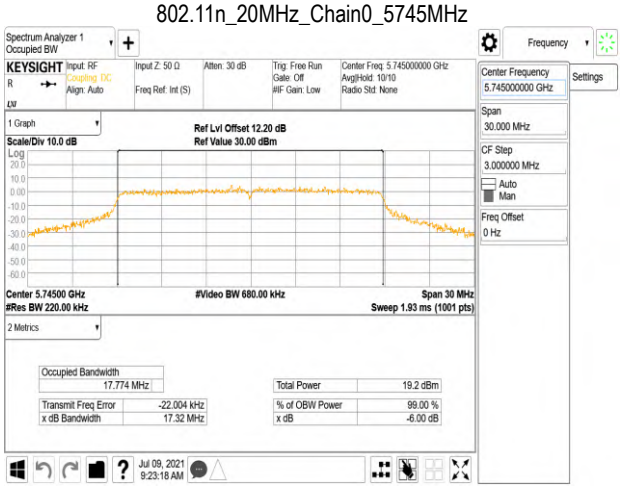
802.11n_20MHz_Chain0_5720MHz



802.11n_20MHz_Chain0_5580MHz

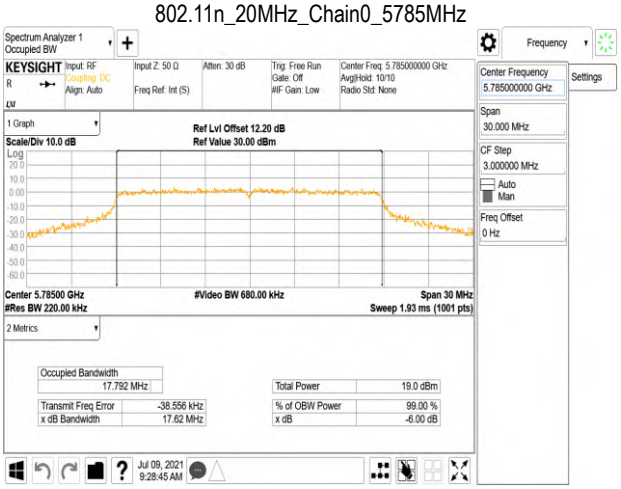


802.11n_20MHz_Chain0_5745MHz

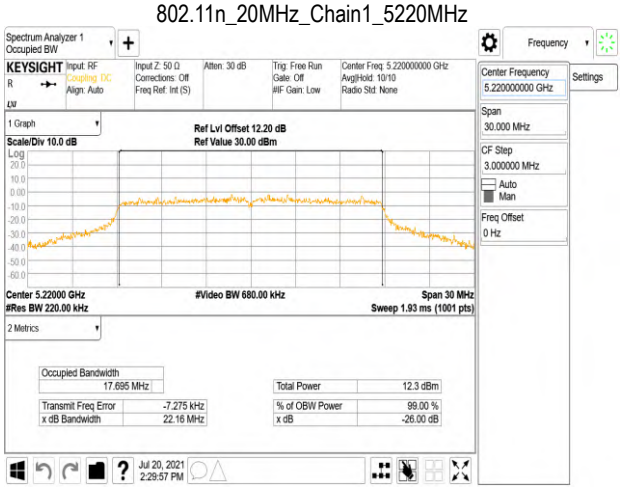


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

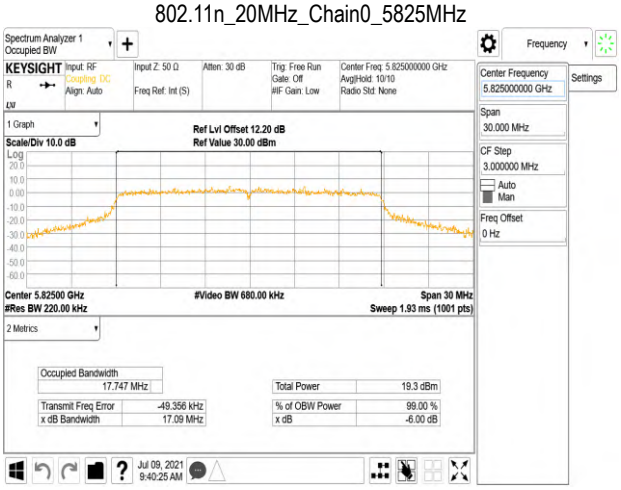
802.11n_20MHz_Chain0_5785MHz



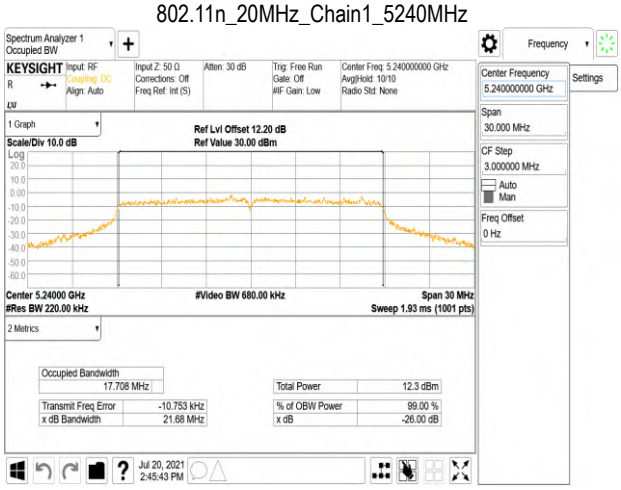
802.11n_20MHz_Chain1_5220MHz



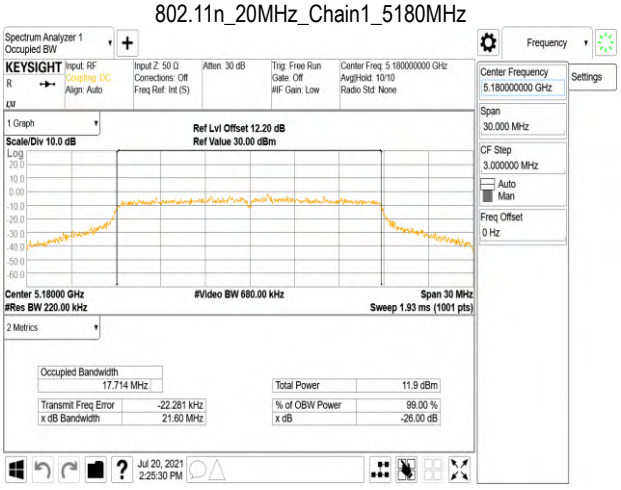
802.11n_20MHz_Chain0_5825MHz



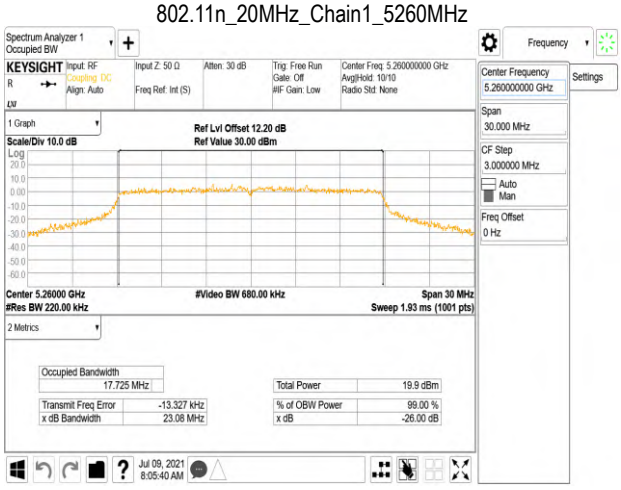
802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5180MHz

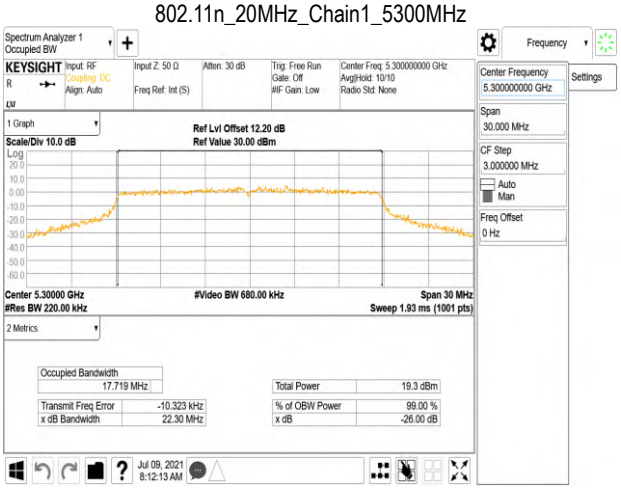


802.11n_20MHz_Chain1_5260MHz

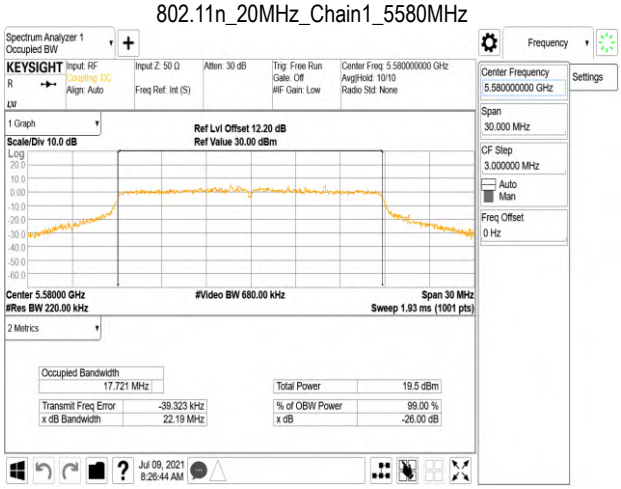


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

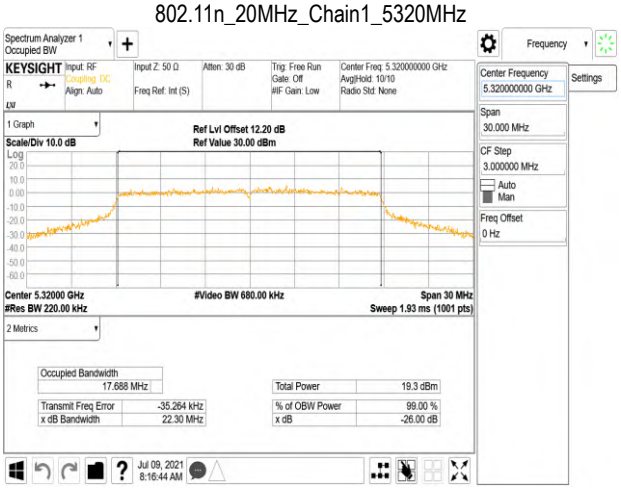
802.11n_20MHz_Chain1_5300MHz



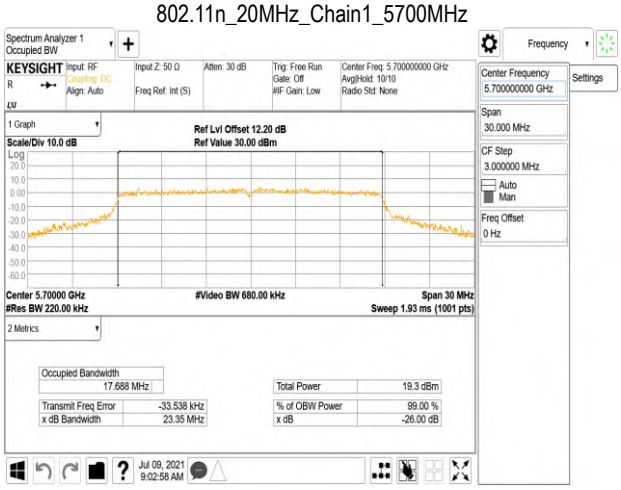
802.11n_20MHz_Chain1_5580MHz



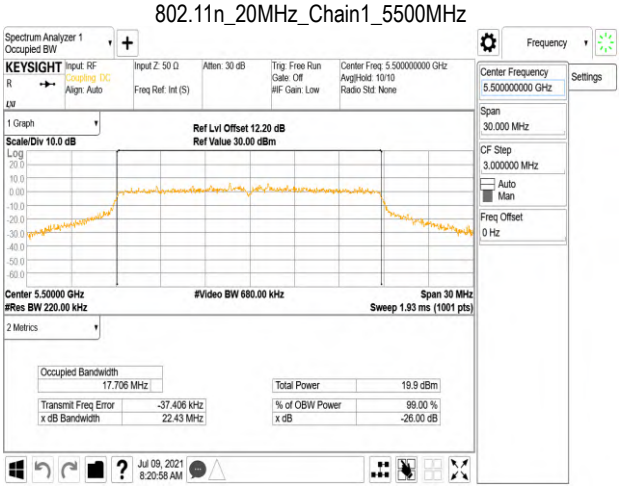
802.11n_20MHz_Chain1_5320MHz



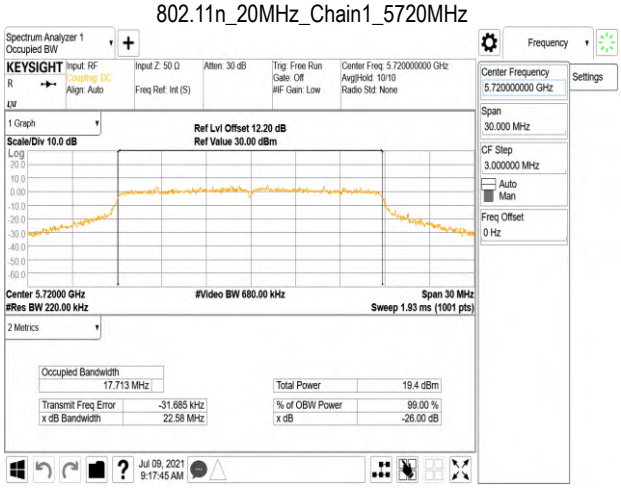
802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5500MHz

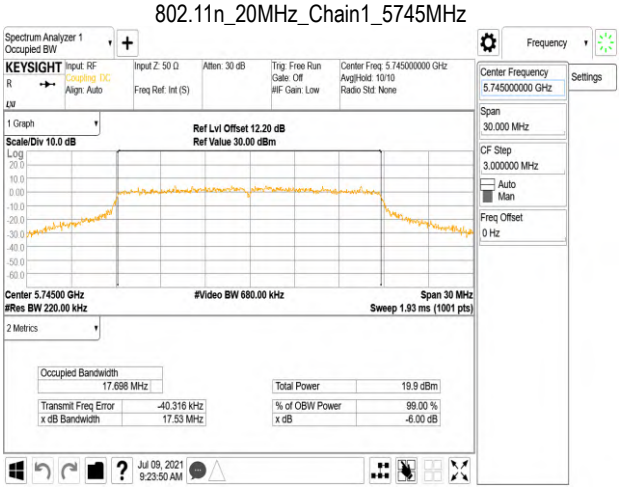


802.11n_20MHz_Chain1_5720MHz

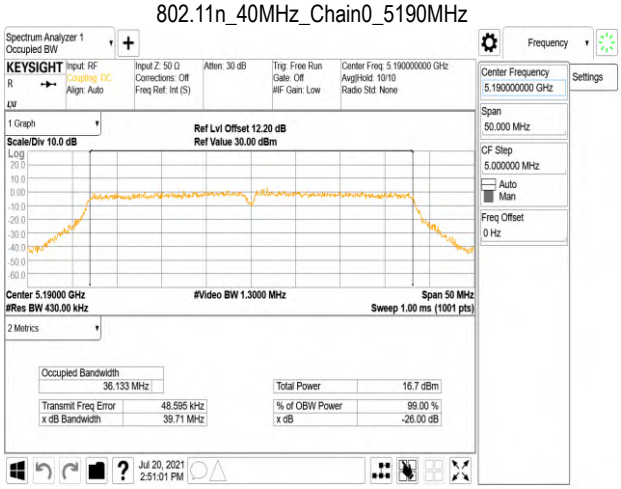


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

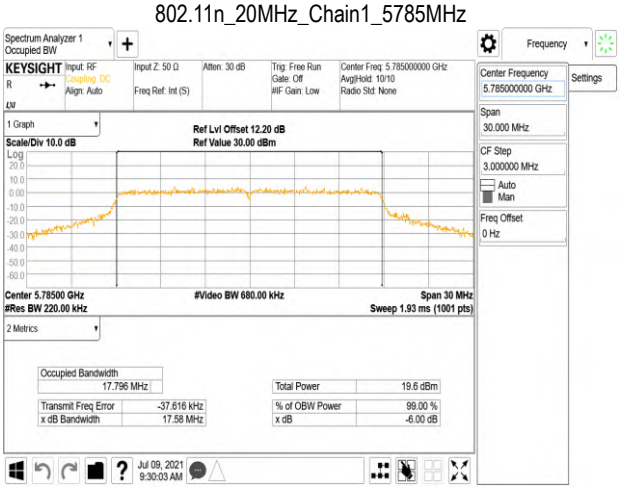
802.11n_20MHz_Chain1_5745MHz



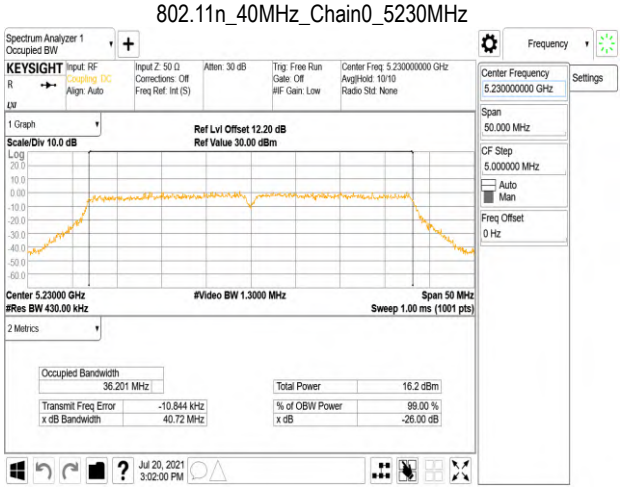
802.11n_40MHz_Chain0_5190MHz



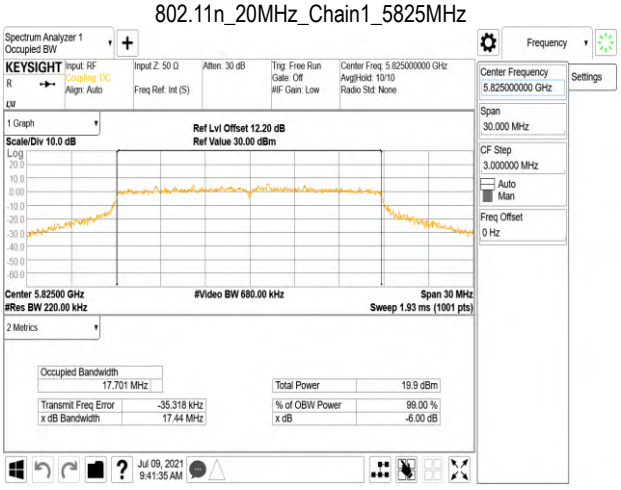
802.11n_20MHz_Chain1_5785MHz



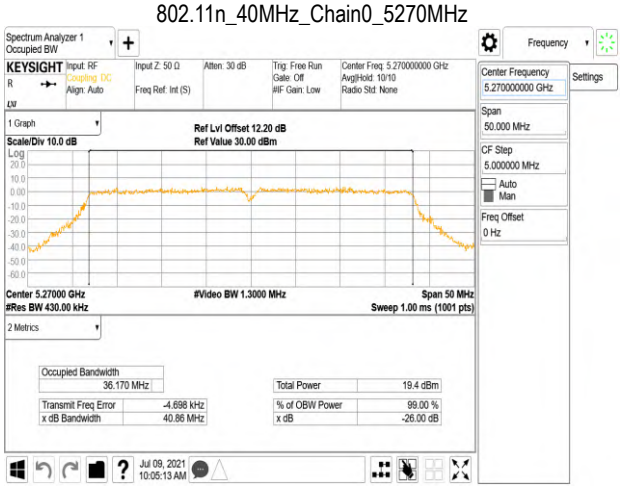
802.11n_40MHz_Chain0_5230MHz



802.11n_20MHz_Chain1_5825MHz

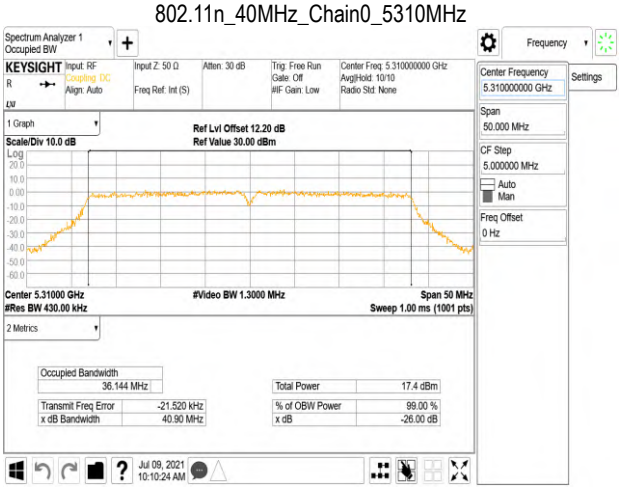


802.11n_40MHz_Chain0_5270MHz

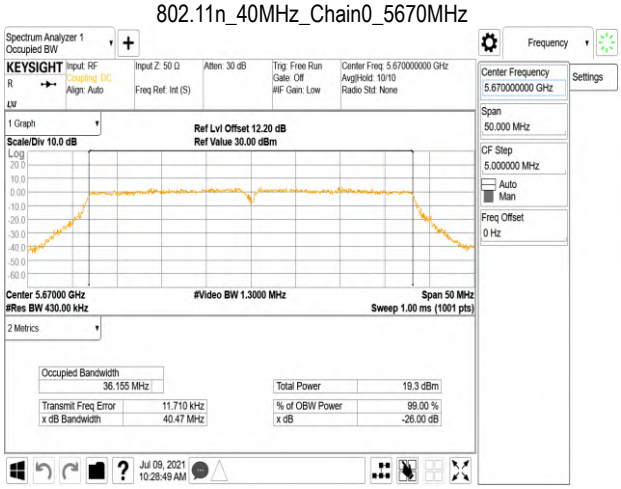


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

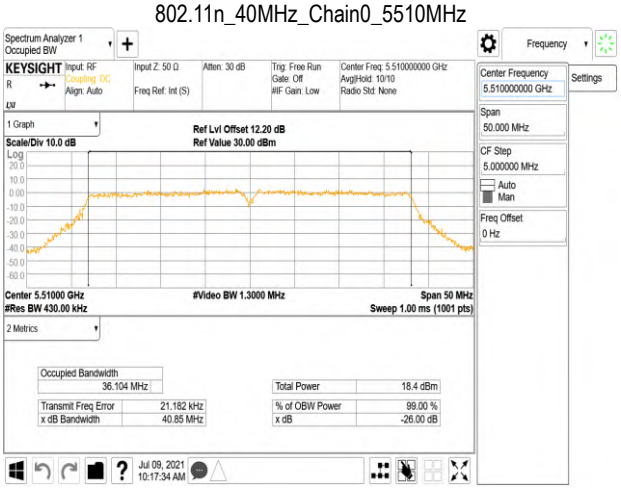
802.11n_40MHz_Chain0_5310MHz



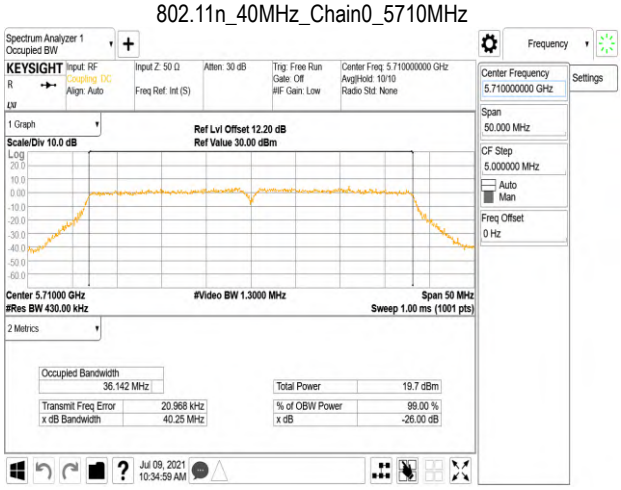
802.11n_40MHz_Chain0_5670MHz



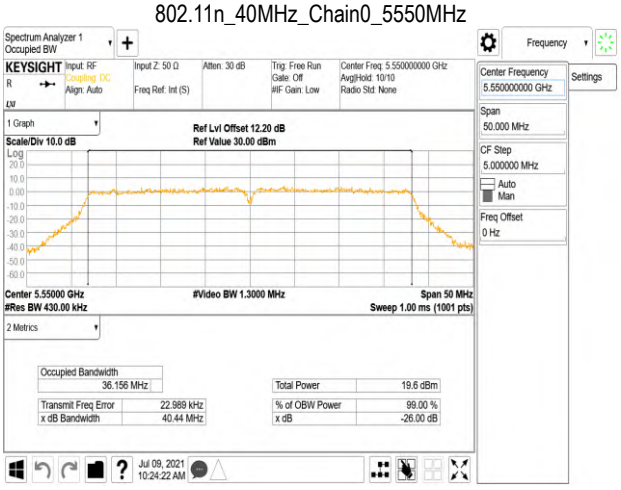
802.11n_40MHz_Chain0_5510MHz



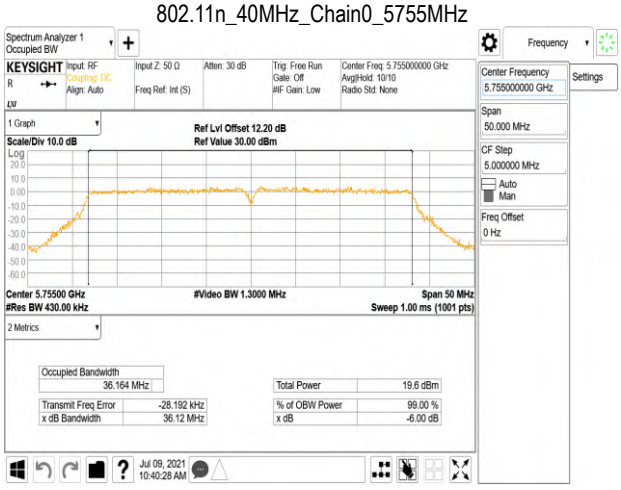
802.11n_40MHz_Chain0_5710MHz



802.11n_40MHz_Chain0_5550MHz

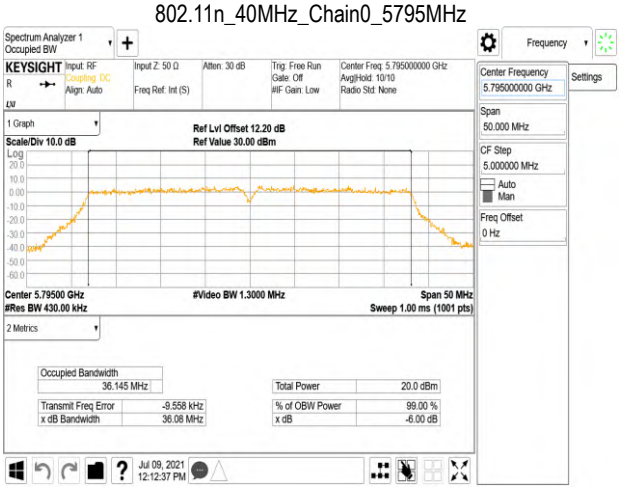


802.11n_40MHz_Chain0_5755MHz

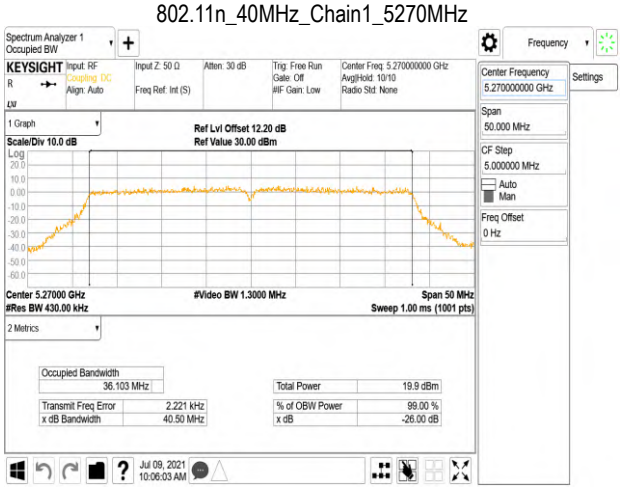


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

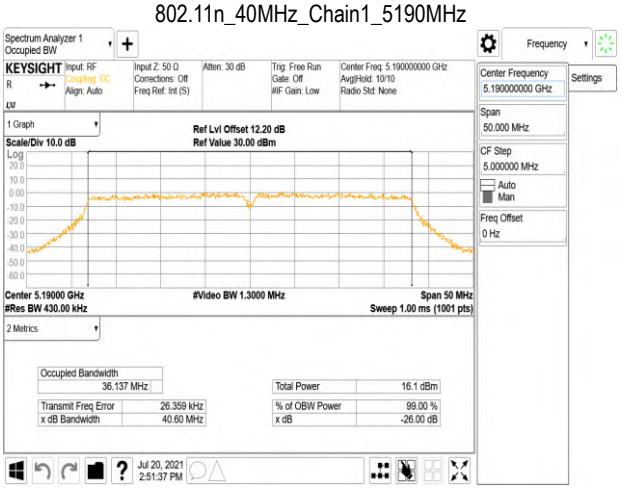
802.11n_40MHz_Chain0_5795MHz



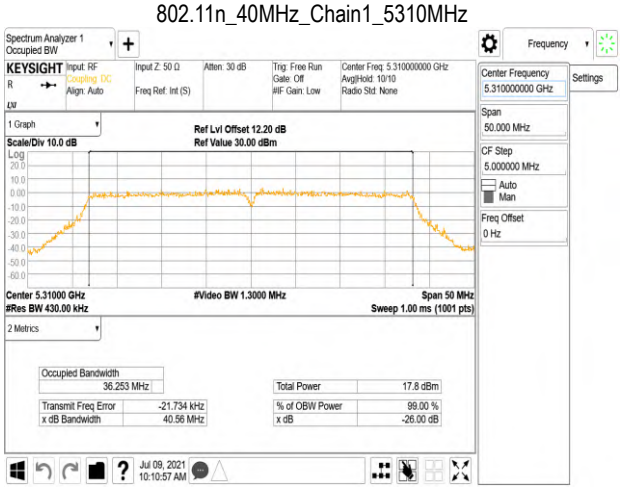
802.11n_40MHz_Chain1_5270MHz



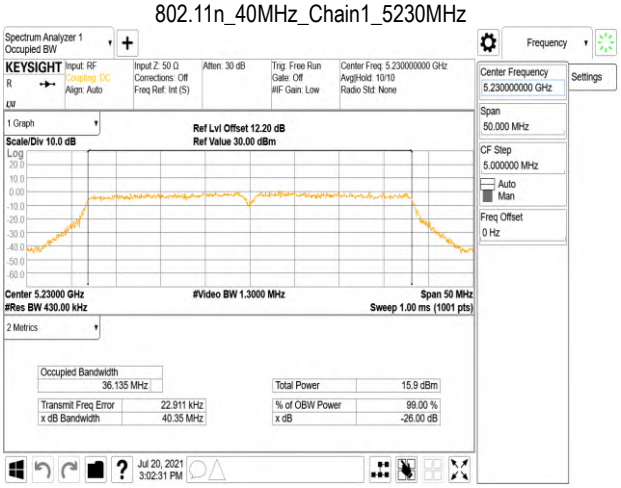
802.11n_40MHz_Chain1_5190MHz



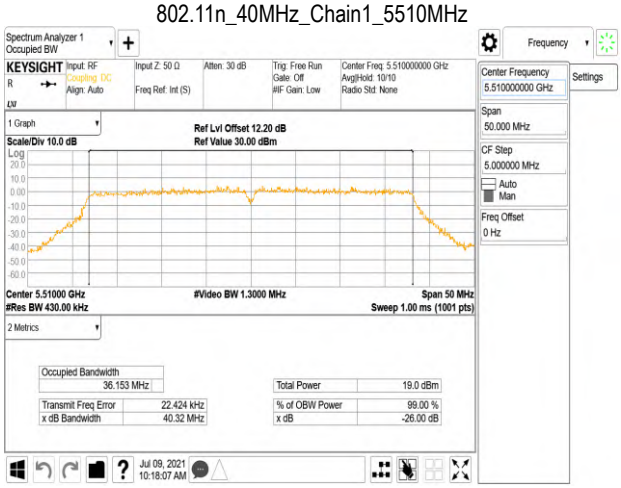
802.11n_40MHz_Chain1_5310MHz



802.11n_40MHz_Chain1_5230MHz

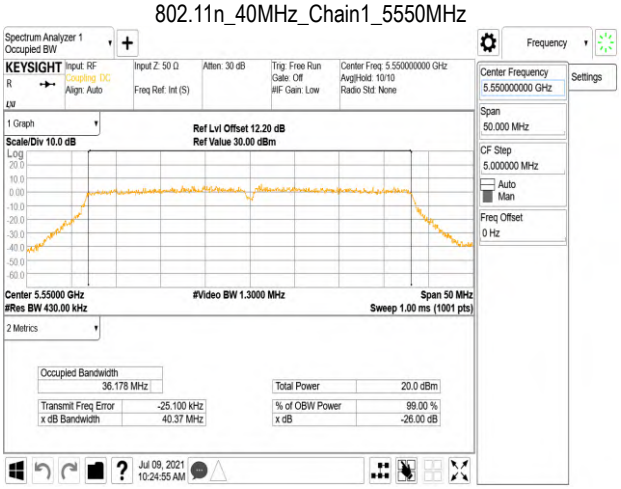


802.11n_40MHz_Chain1_5510MHz

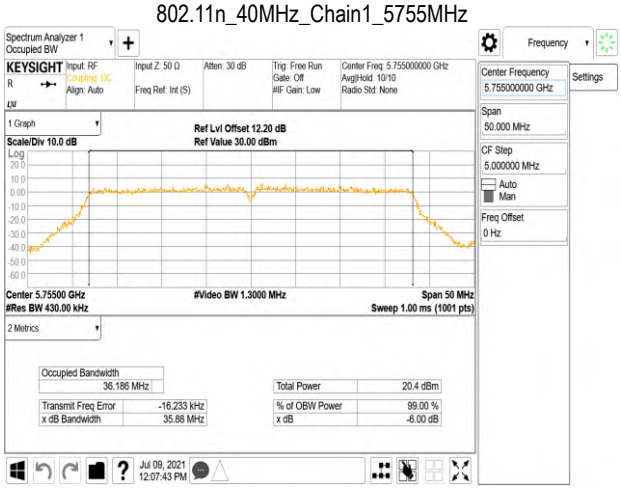


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

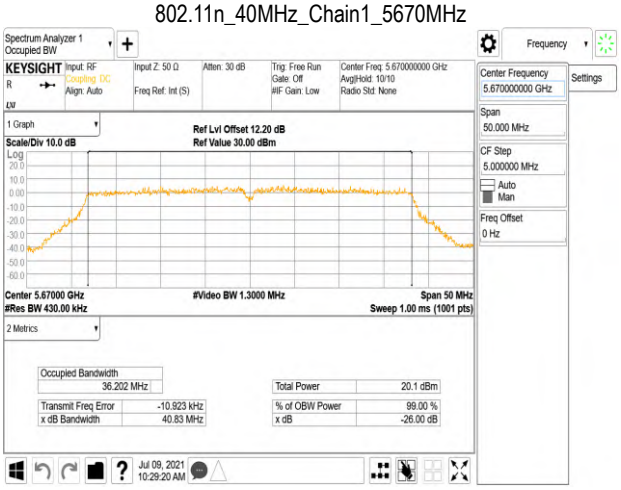
802.11n_40MHz_Chain1_5550MHz



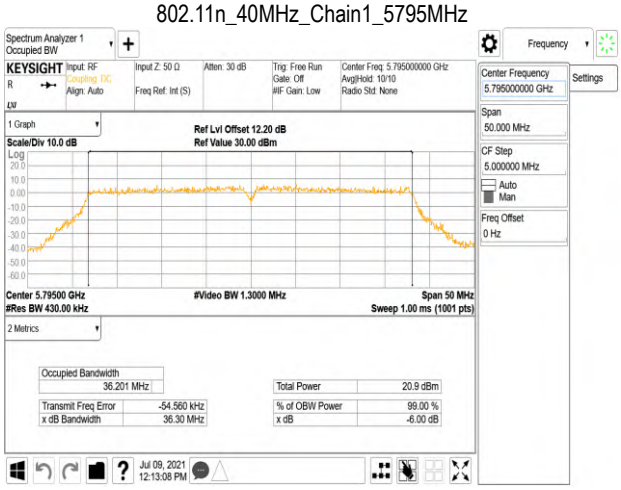
802.11n_40MHz_Chain1_5755MHz



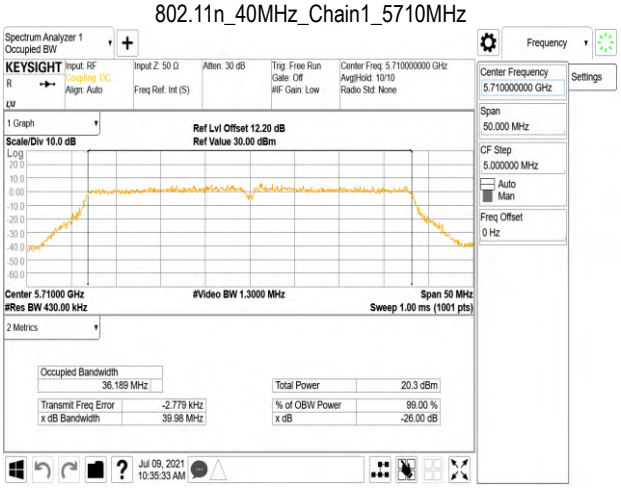
802.11n_40MHz_Chain1_5670MHz



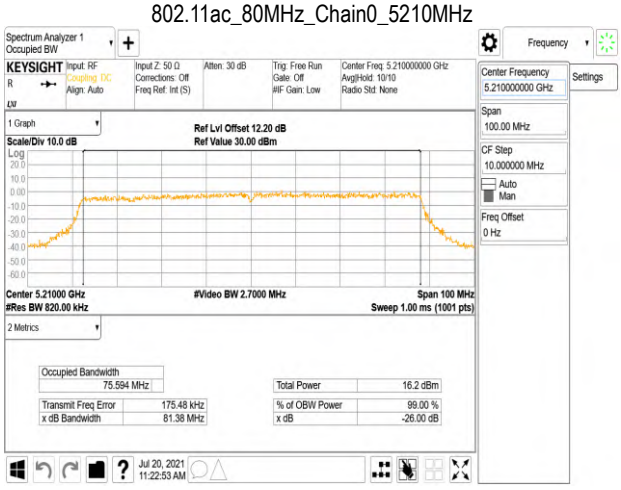
802.11n_40MHz_Chain1_5795MHz



802.11n_40MHz_Chain1_5710MHz

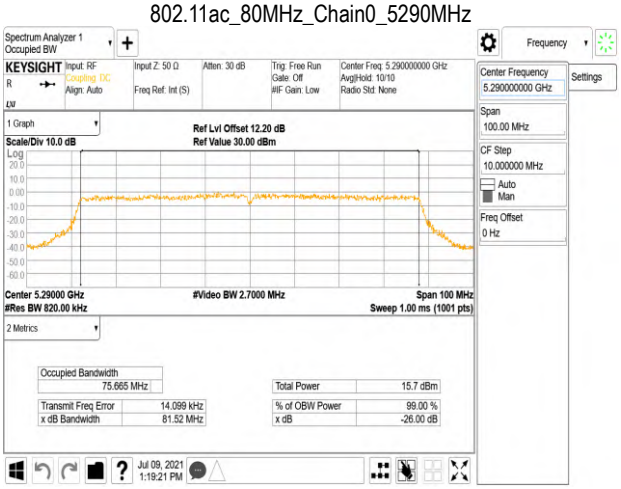


802.11ac_80MHz_Chain0_5210MHz

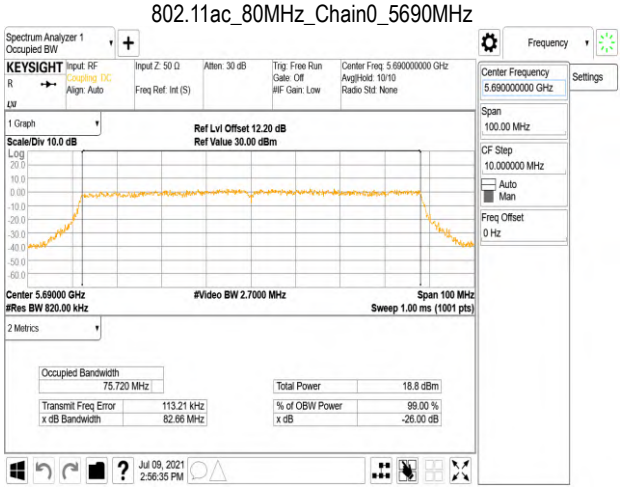


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

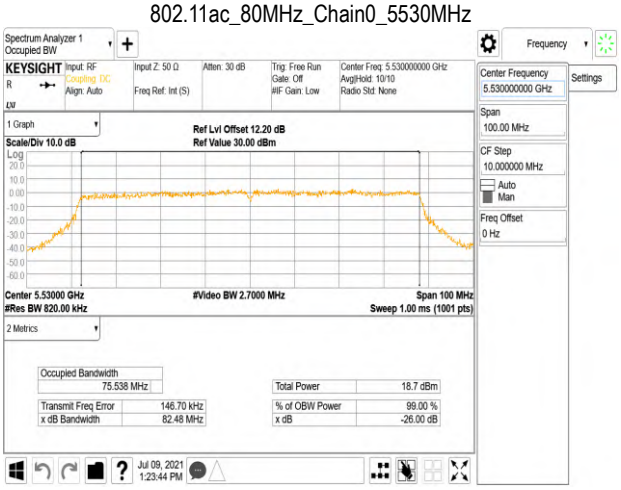
802.11ac_80MHz_Chain0_5290MHz



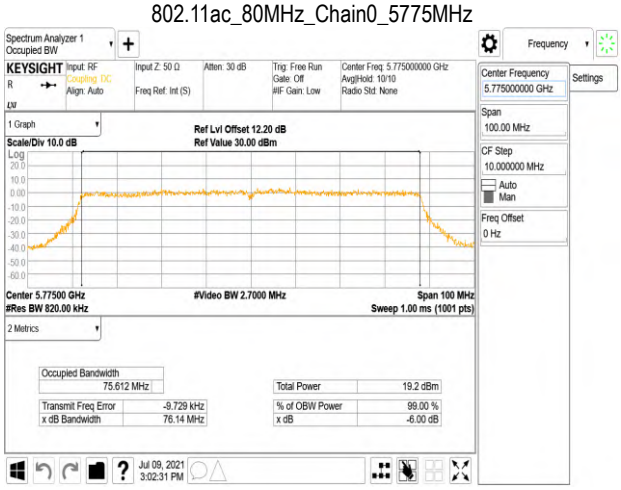
802.11ac_80MHz_Chain0_5690MHz



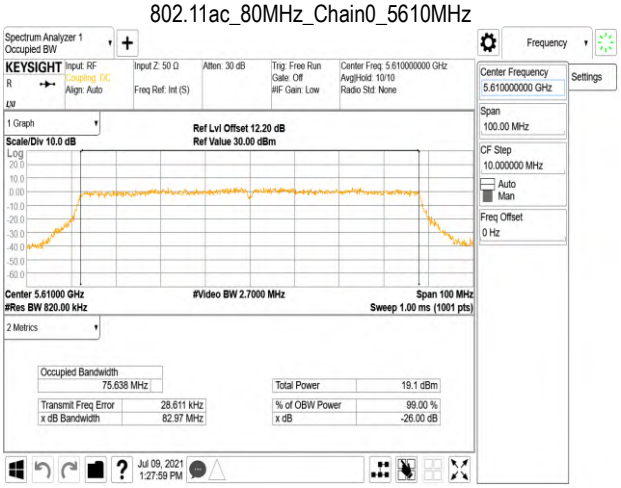
802.11ac_80MHz_Chain0_5530MHz



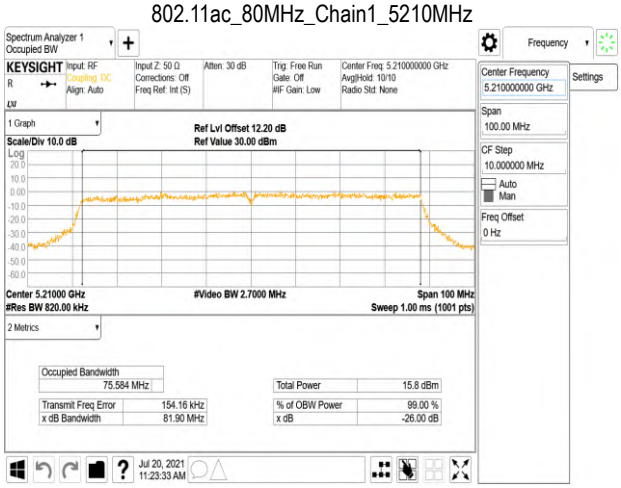
802.11ac_80MHz_Chain0_5775MHz



802.11ac_80MHz_Chain0_5610MHz

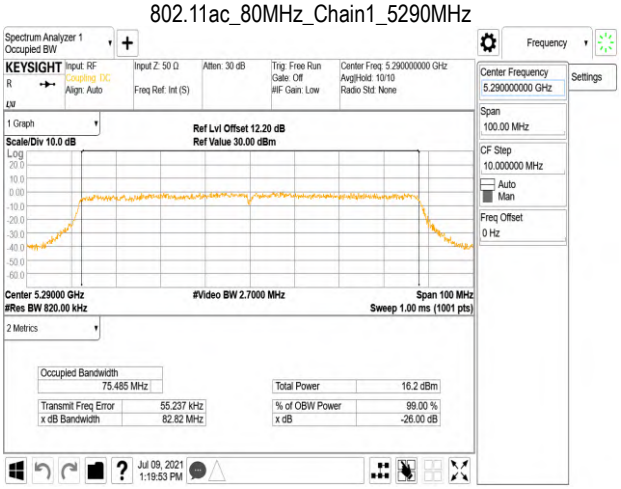


802.11ac_80MHz_Chain1_5210MHz

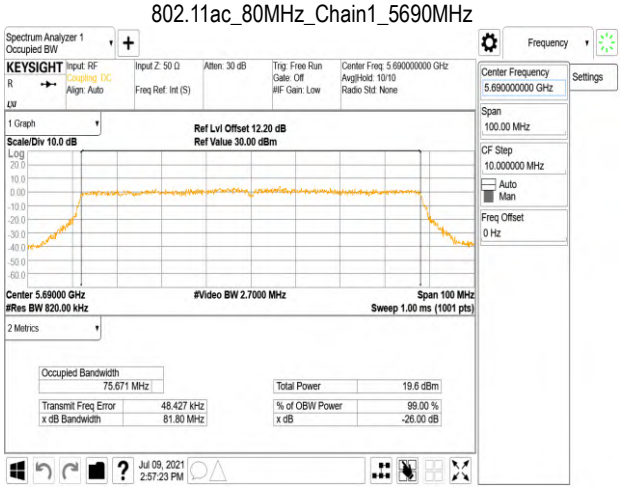


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

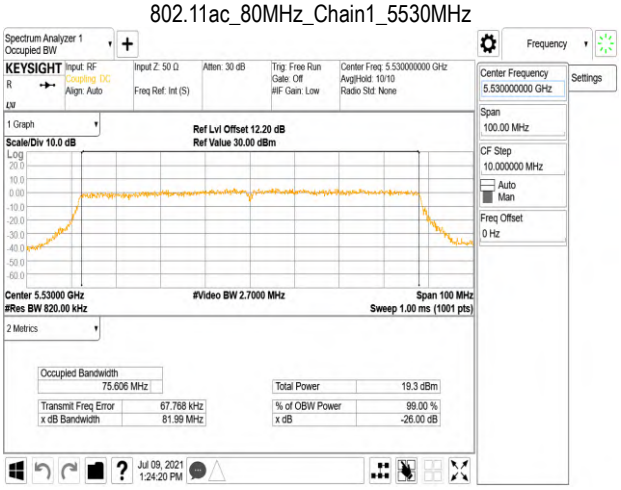
802.11ac_80MHz_Chain1_5290MHz



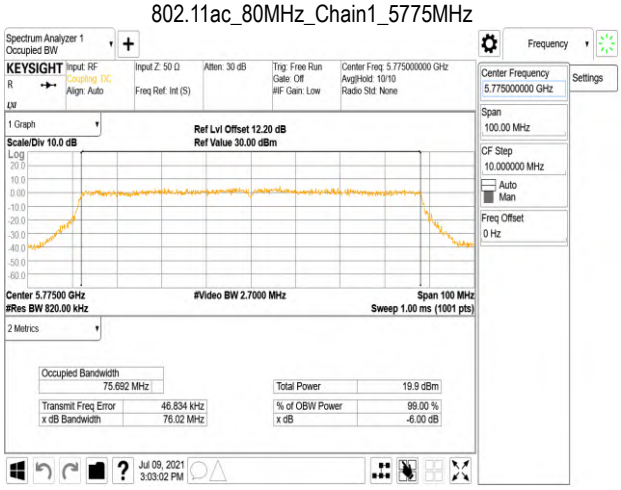
802.11ac_80MHz_Chain1_5690MHz



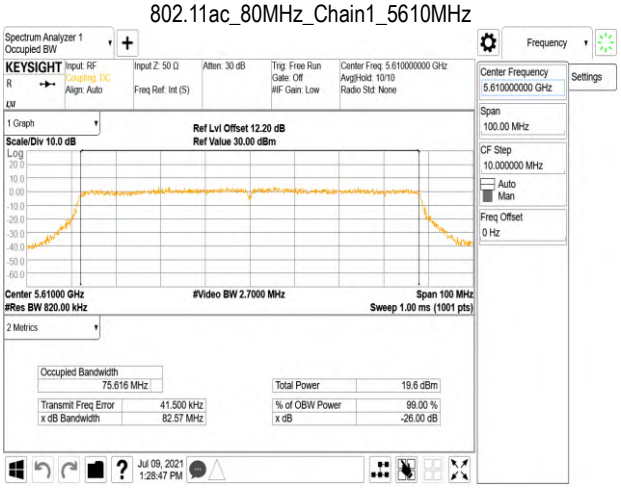
802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5775MHz



802.11ac_80MHz_Chain1_5610MHz



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

Band	EUT CATEGORY		LIMIT			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1	☐	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
	☐	Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
	☒	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	☒	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	☒	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	☒	Other	1 Watt(30dBm)	Not required	Not required	6dBi
	☐	Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.						

ISED

FREQUENCY BAND (MHz)	Limits of RSS-247 6.2.1~6.2.4		
	EIRP	Conducted Output Power	TPC
5150~5250	200 mW or 10 + 10 $\log_{10}$B dBm	N/A	Vehicle use, at least 3dB below 30mW EIRP
5250~5350	1.0 W or 17 + 10 $\log_{10}$B dBm	250 mW or 11 +10 $\log_{10}$B	Vehicle use, at least 3dB below 30mW EIRP or EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	1.0 W or 17 + 10 $\log_{10}$B dBm	250 mW or 11 +10 $\log_{10}$B	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	N/A	1 W	N/A
For equipment operating in the band ***5725-5850*** MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.			

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01
If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

- $$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

where
Each antenna is driven by no more than one spatial stream;
NSS = the number of independent spatial streams of data;
NANT = the total number of antennas
$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;
G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

9.2 Measurement Procedure

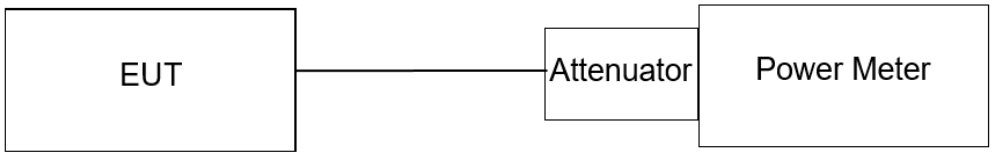
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

9.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/18/2021	06/17/2022
Power Meter	Anritsu	ML2496A	1512003	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339378	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339379	07/23/2020	07/22/2021
Attenuator	Marvelous	MVE2213-10	RF12	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF16	11/19/2020	11/18/2021
DC Block	PASTER-NACK	PE8210	RF152	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F2A196C	RF62	11/19/2020	11/18/2021
Test Software	Qualcomm	QRCT	V4.0.00161.0	N.C.R	N.C.R
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R

9.4 Test Set-up



9.5 Measurement Result

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power limits are the lesser of 250 mW (23.98dBm) or 11 dBm + 10 log B and EIRP limits are the lesser of 1.0W (30dBm) or 17 + 10 log B.

1. Where B is the 26 dB emission bandwidth in megahertz for FCC compliance.
2. And B is the 99% for ISED compliance.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

9.5.1 Conducted output power (FCC)

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	11.5	11.94	15.647	23.98	PASS
44	5220	6	11.5	11.90	15.504	23.98	PASS
48	5240	6	11.5	**12.05**	16.049	23.98	PASS
52	5260	6	15	14.88	30.792	23.98	PASS
60	5300	6	15	14.86	30.651	23.98	PASS
64	5320	6	15	**14.95**	31.292	23.98	PASS
100	5500	6	15	14.73	29.747	23.98	PASS
116	5580	6	15	**14.80**	30.230	23.98	PASS
140	5700	6	15	14.73	29.747	23.98	PASS
144	5720(U-NII 2C)	6	15	**13.22**	20.97	23.16	PASS
144	5720 (U-NII 3)	6	15	**9.15**	8.23	30	PASS
149	5745	6	15	14.56	28.605	30	PASS
157	5785	6	15.5	**14.92**	31.077	30	PASS
165	5825	6	15.5	14.71	29.610	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	8.5	8.44	6.979	23.98	PASS
44	5220	MCS0	8.5	8.08	6.424	23.98	PASS
48	5240	MCS0	8.5	8.02	6.336	23.98	PASS
52	5260	MCS0	16	15.80	38.003	23.98	PASS
60	5300	MCS0	16	15.73	37.395	23.98	PASS
64	5320	MCS0	16	15.97	39.520	23.98	PASS
100	5500	MCS0	16	15.70	37.138	23.98	PASS
116	5580	MCS0	16	15.72	37.309	23.98	PASS
140	5700	MCS0	16	15.75	37.568	23.98	PASS
144	5720(U-NII 2C)	MCS0	16	14.33	27.09	23.98	PASS
144	5720 (U-NII 3)	MCS0	16	10.17	10.39	30	PASS
149	5745	MCS0	16	15.61	36.376	30	PASS
157	5785	MCS0	16	15.53	35.712	30	PASS
165	5825	MCS0	16.5	15.71	37.223	30	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	8.5	8.38	6.884	23.98	PASS
44	5220	MCS0	8.5	8.00	6.307	23.98	PASS
48	5240	MCS0	8.5	7.94	6.220	23.98	PASS
52	5260	MCS0	15.5	15.76	37.655	23.98	PASS
60	5300	MCS0	15.5	15.71	37.223	23.98	PASS
64	5320	MCS0	15.5	15.90	38.888	23.98	PASS
100	5500	MCS0	15.5	15.67	36.882	23.98	PASS
116	5580	MCS0	15.5	15.62	36.460	23.98	PASS
140	5700	MCS0	15.5	15.69	37.052	23.98	PASS
144	5720(U-NII 2C)	MCS0	15.5	14.29	26.87	23.98	PASS
144	5720 (U-NII 3)	MCS0	15.5	10.19	10.44	30	PASS
149	5745	MCS0	15.5	15.57	36.043	30	PASS
157	5785	MCS0	15.5	15.53	35.712	30	PASS
165	5825	MCS0	16	15.64	36.628	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS8	8.5	8.13	8.19	**11.46**	13.991	21.31	PASS
44	5220	MCS8	8.5	7.83	8.38	11.41	13.843	21.31	PASS
48	5240	MCS8	8.5	7.97	8.28	11.43	13.887	21.31	PASS
52	5260	MCS8	15.5	15.16	15.54	18.65	73.327	21.79	PASS
60	5300	MCS8	15.5	15.12	15.55	18.64	73.094	21.79	PASS
64	5320	MCS8	15.5	15.11	15.76	**18.75**	74.914	21.79	PASS
100	5500	MCS8	16	15.57	15.77	**18.97**	78.879	21.62	PASS
116	5580	MCS8	15.5	15.14	15.32	18.53	71.275	21.62	PASS
140	5700	MCS8	15.5	15.17	15.74	18.76	75.211	21.62	PASS
144	5720(U-NII 2C)	MCS8	15.5	13.61	14.22	**17.23**	52.822	21.62	PASS
144	5720 (U-NII 3)	MCS8	15.5	9.45	10.12	**13.10**	20.405	30	PASS
149	5745	MCS8	16	15.38	15.97	**18.98**	79.131	27.92	PASS
157	5785	MCS8	16	15.24	15.81	18.83	76.433	27.92	PASS
165	5825	MCS8	16.5	15.4	15.92	18.97	78.818	27.92	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11.5	10.44	11.056	23.98	PASS
46	5230	MCS0	11	10.00	9.991	23.98	PASS
54	5270	MCS0	15	14.97	31.376	23.98	PASS
62	5310	MCS0	13	12.70	18.603	23.98	PASS
102	5510	MCS0	14	13.75	23.692	23.98	PASS
110	5550	MCS0	15	14.95	31.232	23.98	PASS
134	5670	MCS0	15	14.73	29.689	23.98	PASS
142	5710(U-NII 2C)	MCS0	15	14.38	27.41	23.98	PASS
142	5710 (U-NII 3)	MCS0	15	6.14	4.11	30	PASS
151	5755	MCS0	15	14.65	29.147	30	PASS
159	5795	MCS0	15	14.52	28.287	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11.5	10.33	10.779	23.98	PASS
46	5230	MCS0	11	9.86	9.674	23.98	PASS
54	5270	MCS0	15	14.97	31.376	23.98	PASS
62	5310	MCS0	13	12.66	18.433	23.98	PASS
102	5510	MCS0	14	13.66	23.206	23.98	PASS
110	5550	MCS0	15	14.88	30.732	23.98	PASS
134	5670	MCS0	15	14.63	29.013	23.98	PASS
142	5710(U-NII 2C)	MCS0	15	14.36	27.31	23.98	PASS
142	5710 (U-NII 3)	MCS0	15	6.09	4.06	30	PASS
151	5755	MCS0	15	14.56	28.549	30	PASS
159	5795	MCS0	15	14.43	27.707	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS8	11.5	10.27	10.39	**13.52**	22.473	21.31	PASS
46	5230	MCS8	11	9.81	9.91	13.05	20.167	21.31	PASS
54	5270	MCS8	14.5	14.29	14.76	**17.72**	59.123	21.79	PASS
62	5310	MCS8	13	12.42	12.71	15.75	37.615	21.79	PASS
102	5510	MCS8	14	13.53	13.65	16.78	47.606	21.62	PASS
110	5550	MCS8	14.5	14.57	14.68	**17.81**	60.417	21.62	PASS
134	5670	MCS8	14.5	14.06	14.87	17.67	58.480	21.62	PASS
142	5710(U-NII 2C)	MCS8	14.5	13.63	14.38	**17.21**	52.620	21.62	PASS
142	5710 (U-NII 3)	MCS8	14.5	5.40	6.10	**8.95**	7.859	30	PASS
151	5755	MCS8	14.5	14.06	14.68	17.57	57.112	27.92	PASS
159	5795	MCS8	15	14.26	14.84	**17.75**	59.510	27.92	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	11	10.65	11.602	23.98	PASS
58	5290	MCS0	11	10.17	10.388	23.98	PASS
106	5530	MCS0	14.5	13.64	23.095	23.98	PASS
122	5610	MCS0	14.5	13.75	23.687	23.98	PASS
138	5690(U-NII 2C)	MCS0	14.5	13.20	20.88	23.98	PASS
138	5690 (U-NII 3)	MCS0	14.5	2.77	1.89	30	PASS
155	5775	MCS0	15	13.77	23.797	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	11	10.48	11.156	23.98	PASS
58	5290	MCS0	11	10.03	10.058	23.98	PASS
106	5530	MCS0	14.5	13.64	23.095	23.98	PASS
122	5610	MCS0	14.5	13.68	23.309	23.98	PASS
138	5690(U-NII 2C)	MCS0	14.5	13.15	20.66	23.98	PASS
138	5690 (U-NII 3)	MCS0	14.5	2.17	1.65	30	PASS
155	5775	MCS0	15	13.67	23.255	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
42	5210	MCS0	11	10.38	10.44	**13.74**	23.635	21.31	PASS
58	5290	MCS0	11	9.67	10.38	**13.36**	21.702	21.79	PASS
106	5530	MCS0	14	13.07	13.28	16.50	44.686	21.62	PASS
122	5610	MCS0	14	13.15	13.31	**16.56**	45.250	21.62	PASS
138	5690(U-NII 2C)	MCS0	14	12.73	13.58	**16.51**	44.728	21.62	PASS
138	5690 (U-NII 3)	MCS0	14	2.31	2.59	**5.78**	3.786	30	PASS
155	5775	MCS0	14.5	13.39	13.88	**16.97**	49.744	27.92	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

9.5.2 ISED EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	11.94	5.88	17.82	60.595	22.18	PASS
44	5220	11.90	5.88	17.78	60.040	22.18	PASS
48	5240	**12.05**	5.88	**17.93**	**62.150**	22.18	PASS
52	5260	14.88	4.73	19.61	91.504	22.2	PASS
60	5300	14.86	4.73	19.59	91.083	22.18	PASS
64	5320	**14.95**	4.73	**19.68**	**92.991**	22.2	PASS
100	5500	14.73	4.80	19.53	89.834	22.19	PASS
116	5580	**14.80**	4.80	**19.60**	**91.293**	22.2	PASS
140	5700	**14.73**	4.80	**19.53**	**89.834**	22.2	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	**8.44**	5.88	**14.32**	**27.028**	22.48	PASS
44	5220	8.08	5.88	13.96	24.878	22.48	PASS
48	5240	8.02	5.88	13.90	24.537	22.48	PASS
52	5260	15.80	4.73	20.53	112.932	22.49	PASS
60	5300	15.73	4.73	20.46	111.126	22.48	PASS
64	5320	**15.97**	4.73	**20.70**	**117.440**	22.49	PASS
100	5500	15.70	4.80	20.50	112.155	22.5	PASS
116	5580	**15.72**	4.80	**20.52**	**112.672**	22.5	PASS
140	5700	**15.75**	4.80	**20.55**	**113.453**	22.49	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	**8.38**	5.430	**13.81**	**24.033**	23.01	PASS
44	5220	8.00	5.430	13.43	22.020	23.01	PASS
48	5240	7.94	5.430	13.37	21.718	23.01	PASS
52	5260	15.76	5.610	21.37	137.030	30	PASS
60	5300	15.71	5.610	21.32	135.462	30	PASS
64	5320	**15.90**	5.610	**21.51**	**141.520**	30	PASS
100	5500	**15.67**	5.860	**21.53**	**142.173**	30	PASS
116	5580	15.62	5.860	21.48	140.546	30	PASS
140	5700	**15.69**	5.860	**21.55**	**142.829**	30	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	**11.46**	8.67	**20.13**	**103.005**	22.48	PASS
44	5220	11.41	8.67	20.08	101.910	22.48	PASS
48	5240	11.43	8.67	20.10	102.241	22.48	PASS
52	5260	18.65	8.19	26.84	483.351	29.49	PASS
60	5300	18.64	8.19	26.83	481.813	29.48	PASS
64	5320	**18.75**	8.19	**26.94**	**493.812**	29.48	PASS
100	5500	**18.97**	8.36	**27.33**	**540.707**	29.48	PASS
116	5580	18.53	8.36	26.89	488.585	29.48	PASS
140	5700	**18.76**	8.36	**27.12**	**515.563**	29.48	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	**10.44**	5.88	**16.32**	**42.815**	23.01	PASS
46	5230	10.00	5.88	15.88	38.689	23.01	PASS
54	5270	**14.97**	4.73	**19.70**	**93.238**	25.58	PASS
62	5310	12.70	4.73	17.43	55.283	25.58	PASS
102	5510	13.75	4.80	18.55	71.547	25.58	PASS
110	5550	**14.95**	4.80	**19.75**	**94.318**	25.58	PASS
134	5670	**14.73**	4.80	**19.53**	**89.659**	25.58	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	**10.33**	5.430	**15.76**	**37.635**	23.01	PASS
46	5230	9.86	5.430	15.29	33.775	23.01	PASS
54	5270	**14.97**	5.610	**20.58**	**114.181**	30	PASS
62	5310	12.66	5.610	18.27	67.080	30	PASS
102	5510	13.66	5.860	19.52	89.453	30	PASS
110	5550	**14.88**	5.860	**20.74**	**118.466**	30	PASS
134	5670	**14.63**	5.860	**20.49**	**111.839**	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	**13.52**	8.67	**22.19**	**165.449**	23.01	PASS
46	5230	13.05	8.67	21.72	148.474	23.01	PASS
54	5270	**17.72**	8.19	**25.91**	**389.725**	30	PASS
62	5310	15.75	8.19	23.94	247.951	30	PASS
102	5510	16.78	8.36	25.14	326.336	30	PASS
110	5550	**17.81**	8.36	**26.17**	**414.150**	30	PASS
134	5670	**17.67**	8.36	**26.03**	**400.875**	30	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	**10.65**	5.88	**16.53**	**44.928**	23.01	PASS
58	5290	**10.17**	4.73	**14.90**	**30.869**	28.79	PASS
106	5530	**13.64**	4.80	**18.44**	**69.746**	28.78	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	**10.48**	5.430	**15.91**	**38.951**	23.01	PASS
58	5290	**10.03**	5.610	**15.64**	**36.603**	30	PASS
106	5530	**13.64**	5.860	**19.50**	**89.026**	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	**13.74**	8.67	**22.41**	**174.003**	23.01	PASS
58	5290	**13.36**	8.19	**21.55**	**143.053**	30	PASS
106	5530	**16.50**	8.36	**24.86**	**306.319**	30	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

9.5.3 Conducted output power (ISED)

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	14.88	30.792	23.20	PASS
60	5300	14.86	30.651	23.18	PASS
64	5320	**14.95**	**31.292**	23.20	PASS
100	5500	14.73	29.747	23.19	PASS
116	5580	14.80	**30.230**	23.20	PASS
140	5700	14.73	**29.747**	23.20	PASS
149	5745	14.56	28.605	30	PASS
157	5785	14.92	**31.077**	30	PASS
165	5825	14.71	29.610	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.80	38.003	23.49	PASS
60	5300	15.73	37.395	23.48	PASS
64	5320	**15.97**	**39.520**	23.49	PASS
100	5500	15.70	37.138	23.5	PASS
116	5580	**15.72**	**37.309**	23.5	PASS
140	5700	**15.75**	**37.568**	23.49	PASS
144	5720(U-NII 2C)	14.33	27.092	22.42	PASS
144	5720 (U-NII 3)	10.17	10.389	30	PASS
149	5745	15.61	36.376	30	PASS
157	5785	15.53	35.712	30	PASS
165	5825	**15.71**	**37.223**	30	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.76	37.655	23.49	PASS
60	5300	15.71	37.223	23.48	PASS
64	5320	**15.90**	**38.888**	23.48	PASS
100	5500	**15.67**	**36.882**	23.48	PASS
116	5580	15.62	36.460	23.48	PASS
140	5700	**15.69**	**37.052**	23.48	PASS
144	5720(U-NII 2C)	14.29	26.865	22.42	PASS
144	5720 (U-NII 3)	10.19	10.444	30	PASS
149	5745	15.57	36.043	30	PASS
157	5785	15.53	35.712	30	PASS
165	5825	**15.64**	**36.628**	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	15.16	15.54	18.65	73.327	23.49	PASS
60	5300	15.12	15.55	18.64	73.094	23.48	PASS
64	5320	15.11	15.76	18.75	74.914	23.48	PASS
100	5500	15.57	15.77	**18.97**	**78.879**	23.48	PASS
116	5580	15.14	15.32	18.53	71.275	23.48	PASS
140	5700	15.17	15.74	**18.76**	**75.211**	23.48	PASS
144	5720(U-NII 2C)	13.61	14.22	17.23	52.822	22.42	PASS
144	5720 (U-NII 3)	9.45	10.12	13.10	20.405	30	PASS
149	5745	15.38	15.97	**18.98**	**79.131**	27.92	PASS
157	5785	15.24	15.81	18.83	76.433	27.92	PASS
165	5825	15.40	15.92	18.97	78.818	27.92	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	**14.97**	**31.376**	23.98	PASS
62	5310	12.70	18.603	23.98	PASS
102	5510	13.75	23.692	23.98	PASS
110	5550	**14.95**	**31.232**	23.98	PASS
134	5670	**14.73**	**29.689**	23.98	PASS
142	5710(U-NII 2C)	14.38	27.406	23.98	PASS
142	5710 (U-NII 3)	6.14	4.115	30	PASS
151	5755	**14.65**	**29.147**	30	PASS
159	5795	14.52	28.287	30	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	**14.97**	**31.376**	23.98	PASS
62	5310	12.66	18.433	23.98	PASS
102	5510	13.66	23.206	23.98	PASS
110	5550	**14.88**	**30.732**	23.98	PASS
134	5670	**14.63**	**29.013**	23.98	PASS
142	5710(U-NII 2C)	14.36	27.314	23.98	PASS
142	5710 (U-NII 3)	6.09	4.061	30	PASS
151	5755	**14.56**	**28.549**	30	PASS
159	5795	14.43	27.707	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	14.29	14.76	17.72	59.123	23.98	PASS
62	5310	12.42	12.71	15.75	37.615	23.98	PASS
102	5510	13.53	13.65	16.78	47.606	23.98	PASS
110	5550	14.57	14.68	**17.81**	**60.417**	23.98	PASS
134	5670	14.06	14.87	**17.67**	**58.480**	23.98	PASS
142	5710(U-NII 2C)	13.63	14.38	17.21	52.620	23.98	PASS
142	5710 (U-NII 3)	5.40	6.10	8.95	7.859	30	PASS
151	5755	14.06	14.68	17.57	57.112	27.92	PASS
159	5795	14.26	14.84	**17.75**	**59.510**	27.92	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	**10.17**	10.388	23.98	PASS
106	5530	13.64	23.095	23.98	PASS
122	5610	**13.75**	**23.687**	23.98	PASS
138	5690(U-NII 2C)	13.20	20.884	23.98	PASS
138	5690 (U-NII 3)	2.77	1.894	30	PASS
155	5775	**13.77**	**23.797**	30	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	**10.03**	10.058	23.98	PASS
106	5530	13.64	23.095	23.98	PASS
122	5610	**13.68**	**23.309**	23.98	PASS
138	5690(U-NII 2C)	13.15	20.664	23.98	PASS
138	5690 (U-NII 3)	2.17	1.646	30	PASS
155	5775	**13.67**	**23.255**	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	9.67	10.38	**13.36**	21.702	23.98	PASS
106	5530	13.07	13.28	16.50	44.686	23.98	PASS
122	5610	13.15	13.31	**16.56**	**45.250**	23.98	PASS
138	5690(U-NII 2C)	12.73	13.58	16.51	44.728	23.98	PASS
138	5690 (U-NII 3)	2.31	2.59	5.78	3.786	30	PASS
155	5775	13.39	13.88	**16.97**	**49.744**	27.92	PASS

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device)	17dBm/ MHz
		Fixed point-to-point Access Ponit	
	√	Mobile and portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz
If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.			

ISED

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP spectral density 10 dBm / MHz
5250~5350 MHz	11dBm / MHz
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz
5725~5850 MHz	30dBm / 500 kHz
For equipment operating in the band ***5725-5850*** MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01
If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

- $$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

where

Each antenna is driven by no more than one spatial stream;
NSS = the number of independent spatial streams of data;
NANT = the total number of antennas
$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;
G_k is the gain in dBi of the kth antenna.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band**:
   Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
   For U-NII-3 Band:
   Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
   In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. User the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

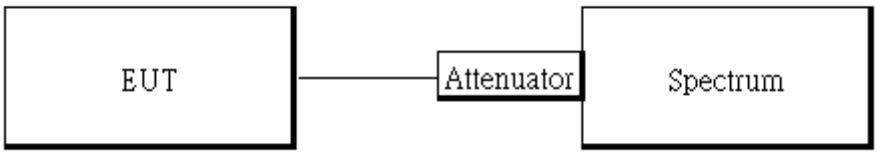
Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

10.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	**MFR**	**MODEL NUM-BER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	KEYSIGHT	N9010B	MY60240506	06/18/2021	06/17/2022
Power Meter	Anritsu	ML2496A	1512003	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339378	07/23/2020	07/22/2021
Power Sensor	Anritsu	MA2411B	1339379	07/23/2020	07/22/2021
Attenuator	Marvelous	MVE2213-10	RF12	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF16	11/19/2020	11/18/2021
DC Block	PASTER-NACK	PE8210	RF152	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F2A196C	RF62	11/19/2020	11/18/2021
Test Software	Qualcomm	QRCT	V4.0.00161.0	N.C.R	N.C.R
Test Software	SGS Taiwan	Radio Test Soft-ware	Ver.21	N.C.R	N.C.R

10.4 Test Set-up



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

10.5 Measurement Result

10.5.1 Power spectral density

POWER DENSITY 802.11a MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	0.42	-	0.09	0.51		11.00 dBm/MHz	-10.49
5220	4.40	-	0.09	0.45		11.00 dBm/MHz	-10.56
5240	0.59	-	0.09	0.68		11.00 dBm/MHz	-10.32
5260	4.33	-	0.09	4.42		11.00 dBm/MHz	-6.58
5300	3.91	-	0.09	4.00		11.00 dBm/MHz	-7.00
5320	3.57	-	0.09	3.66		11.00 dBm/MHz	-7.34
5500	2.90	-	0.09	2.99		11.00 dBm/MHz	-8.01
5580	4.06	-	0.09	4.15		11.00 dBm/MHz	-6.85
5700	4.54	-	0.09	4.63		11.00 dBm/MHz	-6.37
5720 (U-NII 2C)	4.54	-	0.09	4.63		11.00 dBm/MHz	-6.37
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-1.35	-	0.09	2.22	2.31	30.00 dBm/500kHz	-27.69
5745	0.10	-	0.09	2.22	2.31	30.00 dBm/500kHz	-27.69
5785	0.07	-	0.09	2.22	2.31	30.00 dBm/500kHz	-27.69
5825	-0.33	-	0.09	2.22	2.31	30.00 dBm/500kHz	-27.69
POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	-2.92	-3.41	0.29	0.14		8.33 dBm/MHz	-8.19
5220	-2.84	-3.76	0.29	0.03		8.33 dBm/MHz	-8.30
5240	-2.95	-3.71	0.29	-0.01		8.33 dBm/MHz	-8.34
5260	4.35	4.94	0.29	7.95		8.81 dBm/MHz	-0.86
5300	4.18	4.06	0.29	7.42		8.81 dBm/MHz	-1.39
5320	3.68	4.43	0.29	7.37		8.81 dBm/MHz	-1.44
5500	3.49	4.20	0.29	7.16		8.64 dBm/MHz	-1.48
5580	3.70	4.88	0.29	7.63		8.64 dBm/MHz	-1.01
5700	4.76	5.62	0.29	8.51		8.64 dBm/MHz	-0.13
5720 (U-NII 2C)	4.79	5.32	0.29	8.36		8.64 dBm/MHz	-0.28
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-1.34	-1.33	0.29	2.22	4.19	27.92 dBm/500kHz	-23.73
5745	-0.02	1.60	0.29	2.22	6.39	27.92 dBm/500kHz	-21.53
5785	0.03	0.34	0.29	2.22	5.71	27.92 dBm/500kHz	-22.21
5825	0.42	0.50	0.29	2.22	5.98	27.92 dBm/500kHz	-21.94

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-2.63	-3.10	0.18	0.33		8.33 dBm/MHz	-8.00
5230	-3.14	-3.23	0.18	0.01		8.33 dBm/MHz	-8.32
5270	0.33	0.45	0.18	3.58		8.81 dBm/MHz	-5.23
5310	-1.88	-1.36	0.18	1.58		8.81 dBm/MHz	-7.23
5510	-0.84	0.01	0.18	2.80		8.64 dBm/MHz	-5.84
5550	0.53	0.69	0.18	3.80		8.64 dBm/MHz	-4.84
5670	0.06	0.78	0.18	3.63		8.64 dBm/MHz	-5.01
5710 (U-NII 2C)	0.94	1.13	0.18	4.23		8.64 dBm/MHz	-4.41
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-6.12	-4.92	0.18	2.22	-0.07	27.92 dBm/500kHz	-27.99
5755	-4.25	-3.55	0.18	2.22	1.53	27.92 dBm/500kHz	-26.39
5795	-4.02	-3.43	0.18	2.22	1.70	27.92 dBm/500kHz	-26.22

POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-6.51	-6.65	0.32	-3.25		8.33 dBm/MHz	-11.58
5290	-6.81	-6.35	0.32	3.33		8.81 dBm/MHz	-5.48
5530	-3.83	-3.18	0.32	3.33		8.64 dBm/MHz	-5.31
5610	-3.72	-2.85	0.32	3.33		8.64 dBm/MHz	-5.31
5690 (U-NII 2C)	-3.55	-3.06	0.32	0.03		8.64 dBm/MHz	-8.61
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	-9.44	-9.12	0.32	2.22	-3.73	27.92 dBm/500kHz	-31.65
5775	-8.16	-7.40	0.32	2.22	-2.21	27.92 dBm/500kHz	-30.13

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

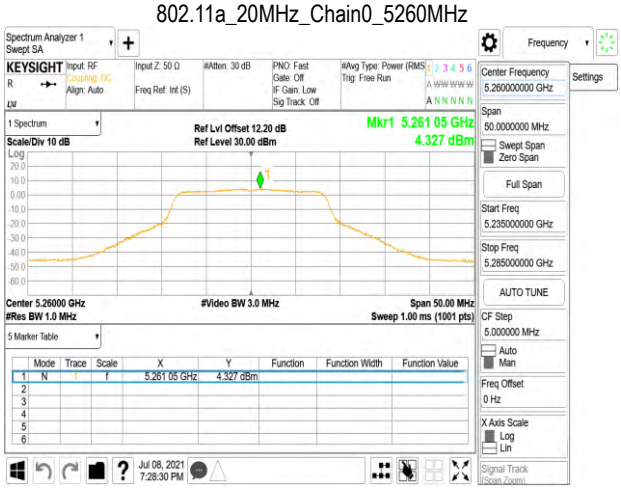
10.5.2 EIRP spectral density

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	0.51	8.67	9.18	10	-0.82
5220	0.45	8.67	9.11	10	-0.89
5240	0.68	8.67	9.35	10	-0.65
EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	0.14	8.67	8.81	10	-1.19
5220	0.03	8.67	8.70	10	-1.30
5240	-0.01	8.67	8.66	10	-1.34
EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5190	0.33	8.67	9.00	10	-1.00
5230	0.01	8.67	8.68	10	-1.32
EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-3.25	8.67	5.42	10	-4.58

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

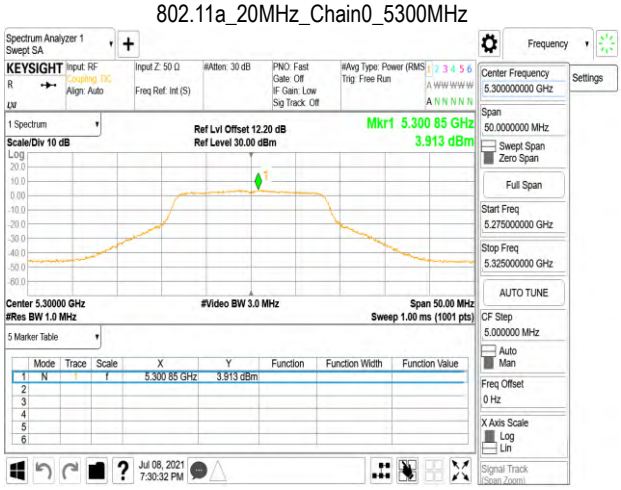
802.11a_20MHz_Chain0_5180MHz

802.11a_20MHz_Chain0_5260MHz

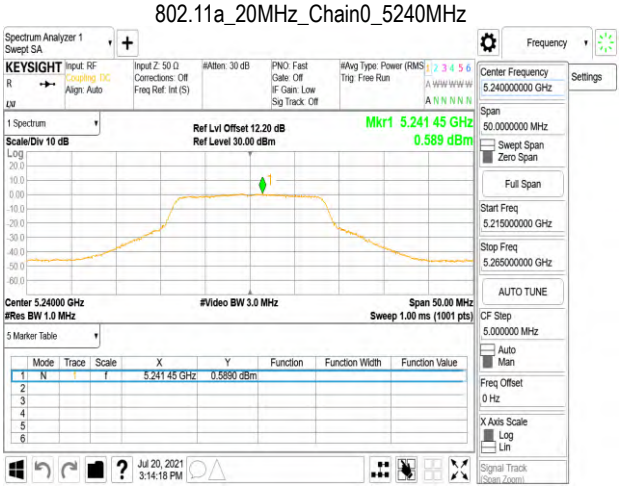


802.11a_20MHz_Chain0_5220MHz

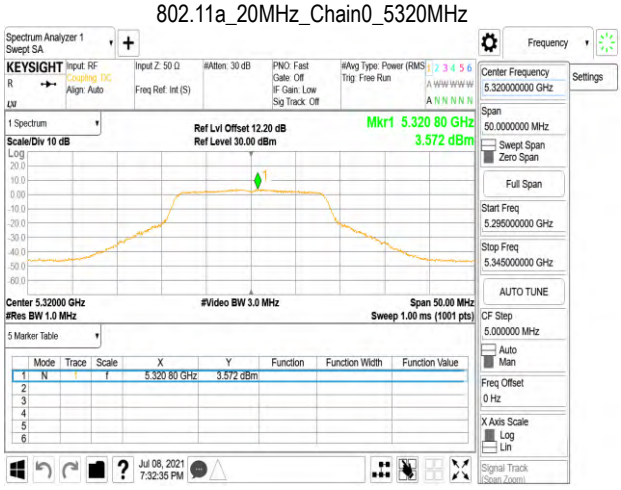
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



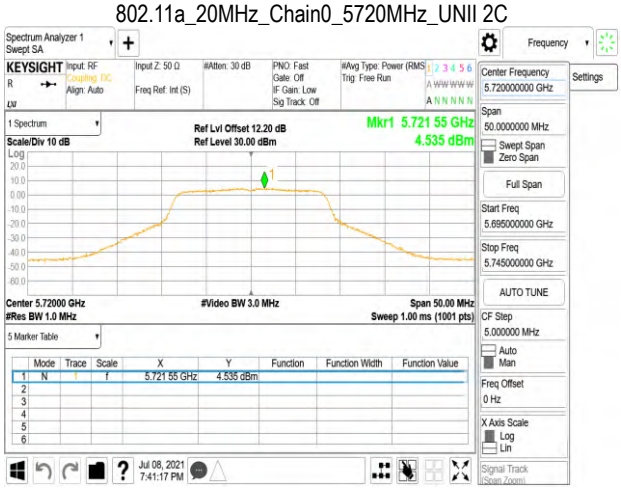
802.11a_20MHz_Chain0_5320MHz



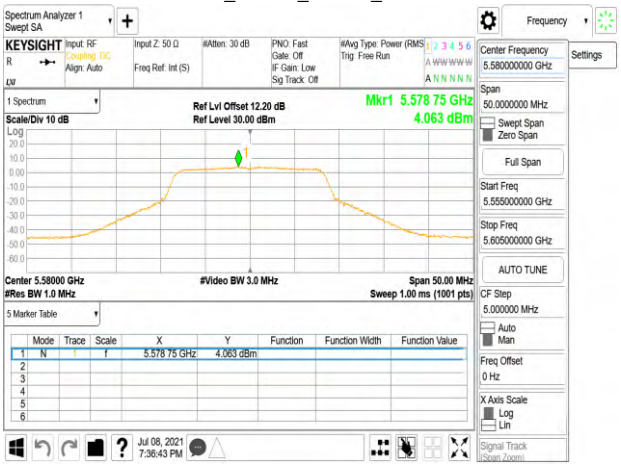
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11a_20MHz_Chain0_5500MHz

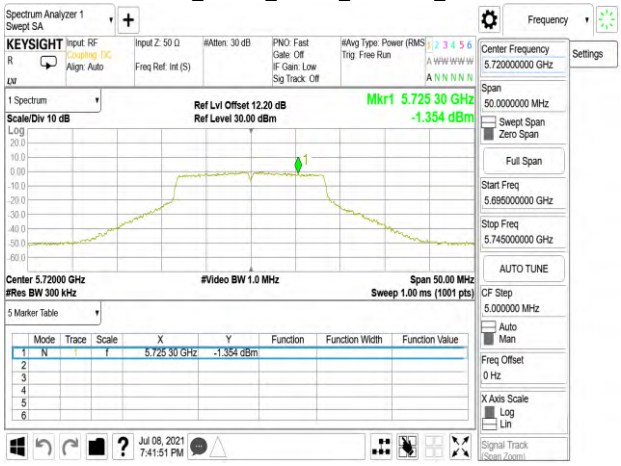
802.11a_20MHz_Chain0_5720MHz_UNII 2C



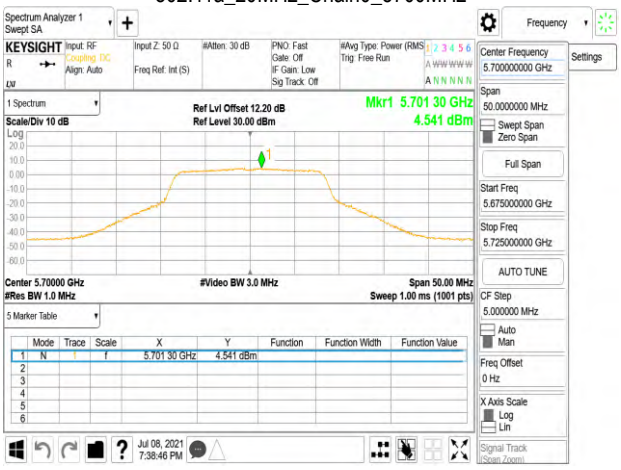
802.11a_20MHz_Chain0_5580MHz



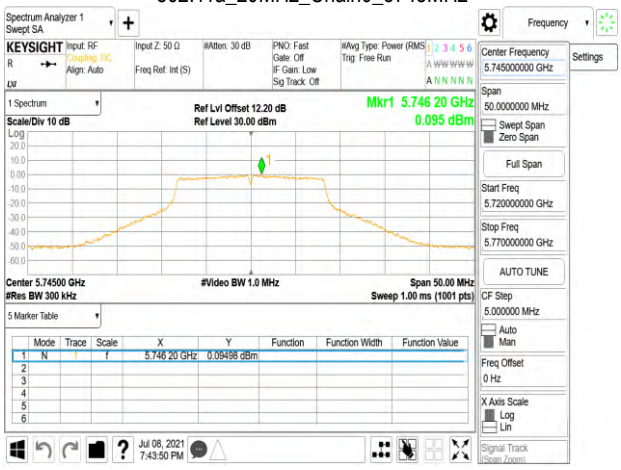
802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5745MHz



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11a_20MHz_Chain0_5785MHz

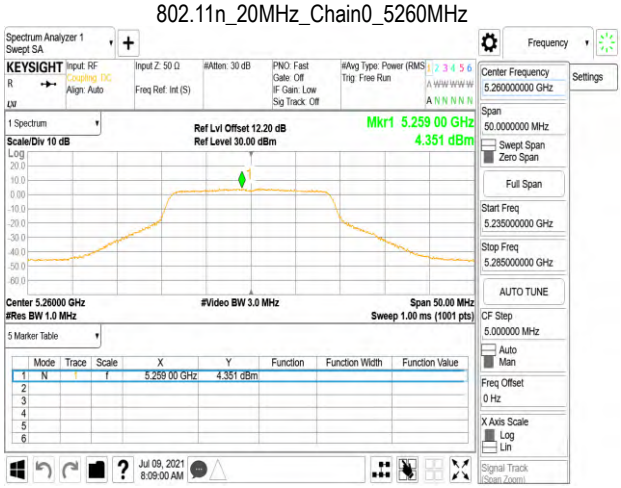
802.11n_20MHz_Chain0_5220MHz

802.11a_20MHz_Chain0_5825MHz

802.11n_20MHz_Chain0_5240MHz

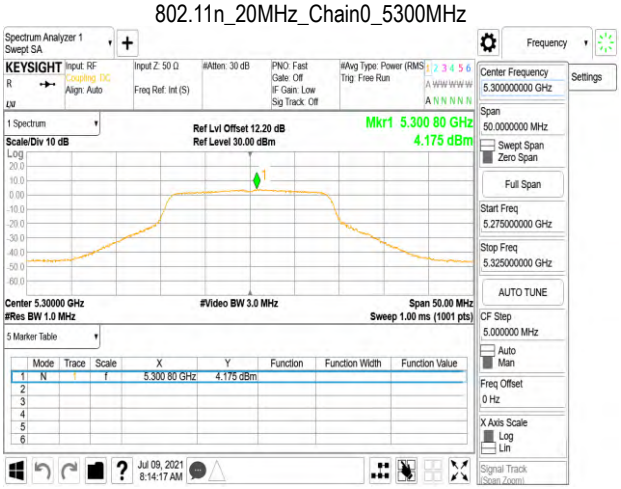
802.11n_20MHz_Chain0_5180MHz

802.11n_20MHz_Chain0_5260MHz

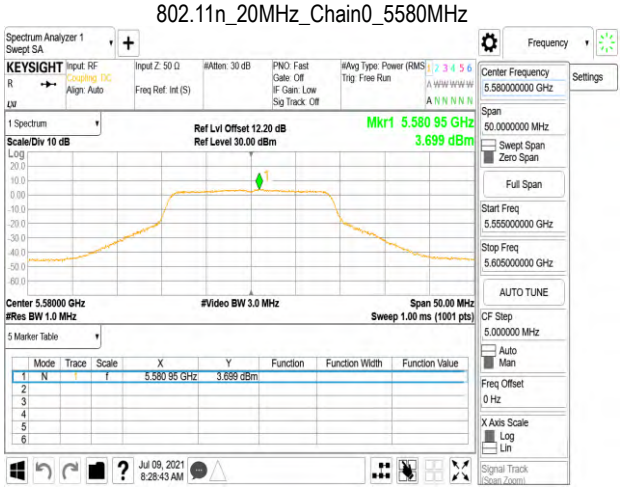


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11n_20MHz_Chain0_5300MHz

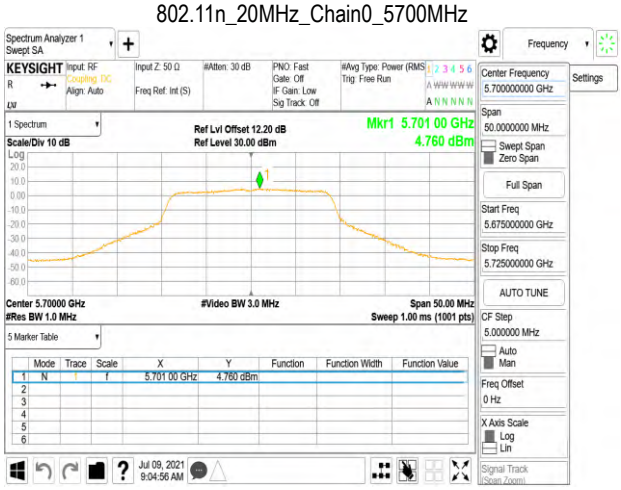


802.11n_20MHz_Chain0_5580MHz

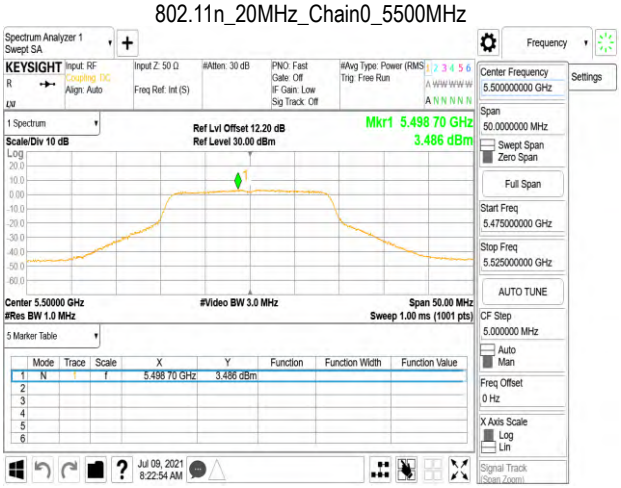


802.11n_20MHz_Chain0_5320MHz

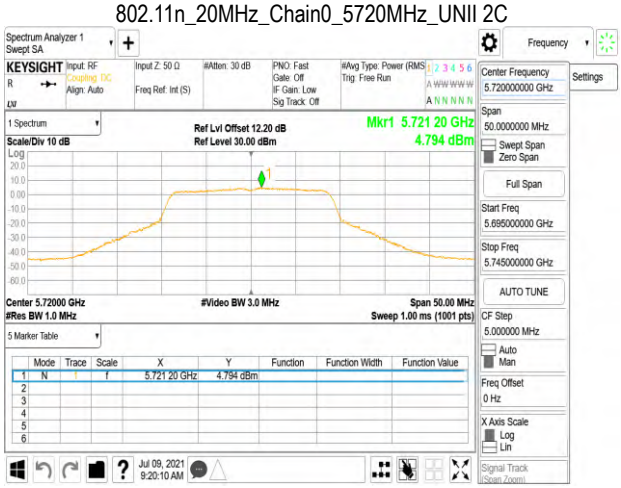
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz

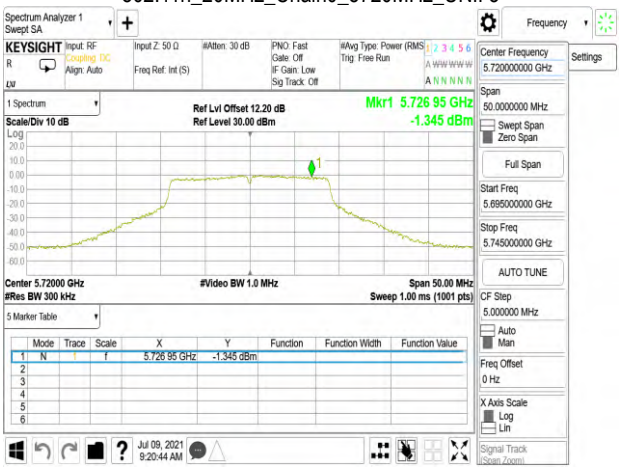


802.11n_20MHz_Chain0_5720MHz_UNII 2C

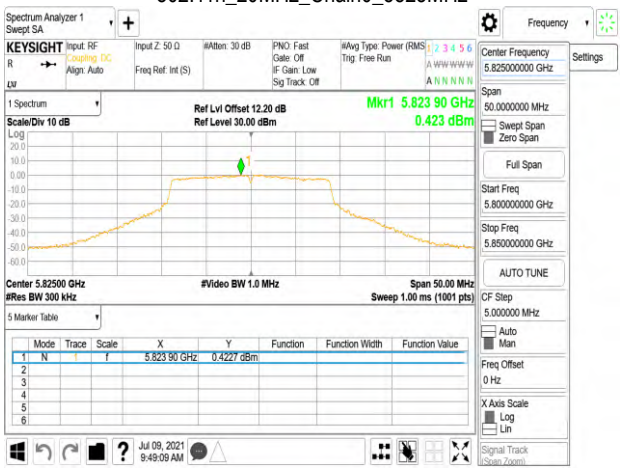


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11n_20MHz_Chain0_5720MHz_UNII 3



802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain0_5745MHz

802.11n_20MHz_Chain1_5180MHz

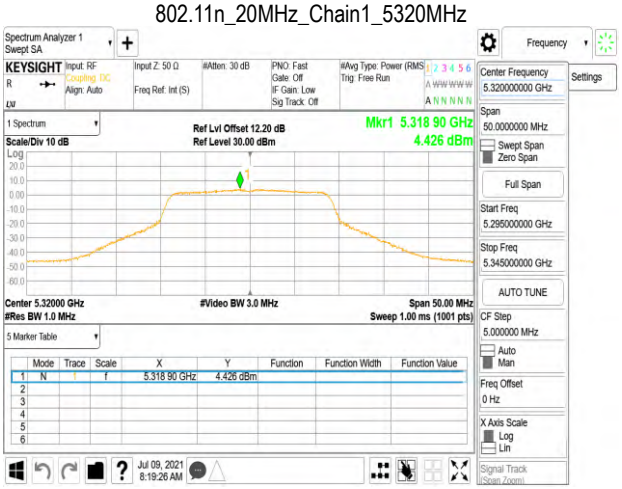
802.11n_20MHz_Chain0_5785MHz

802.11n_20MHz_Chain1_5220MHz

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

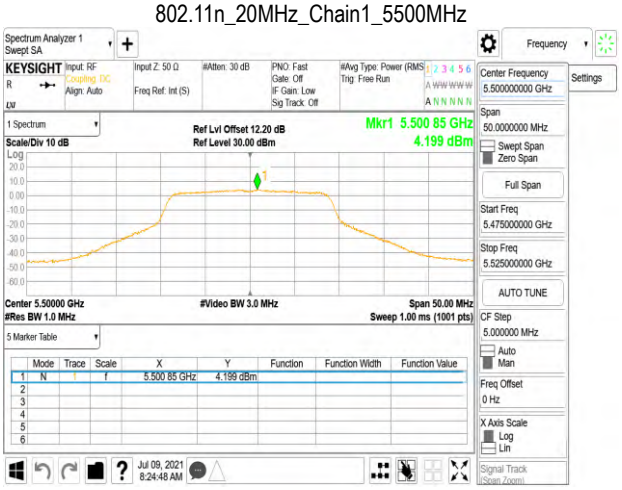
802.11n_20MHz_Chain1_5240MHz

802.11n_20MHz_Chain1_5320MHz

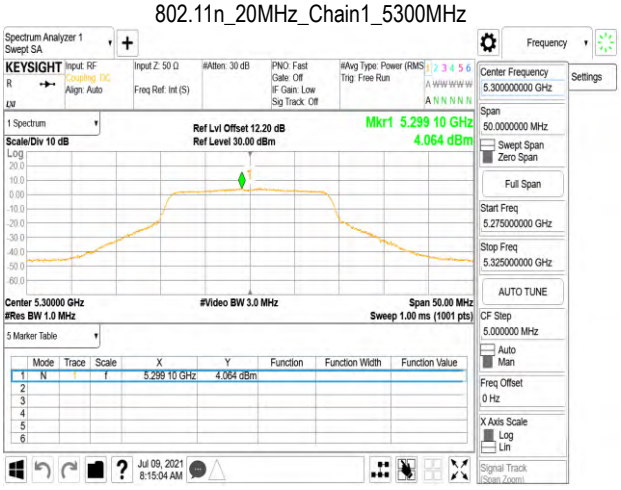


802.11n_20MHz_Chain1_5260MHz

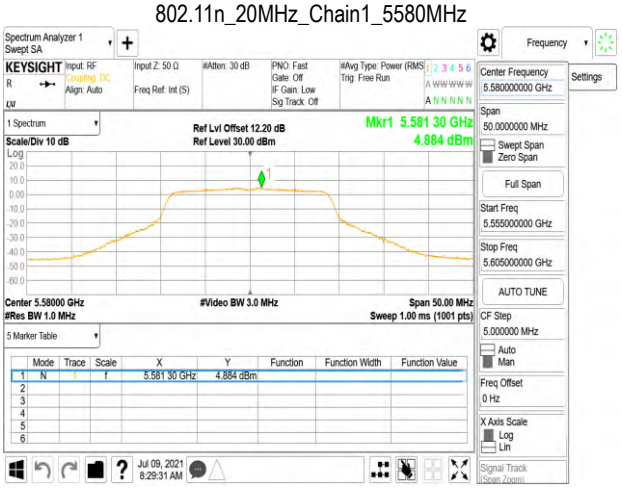
802.11n_20MHz_Chain1_5500MHz



802.11n_20MHz_Chain1_5300MHz

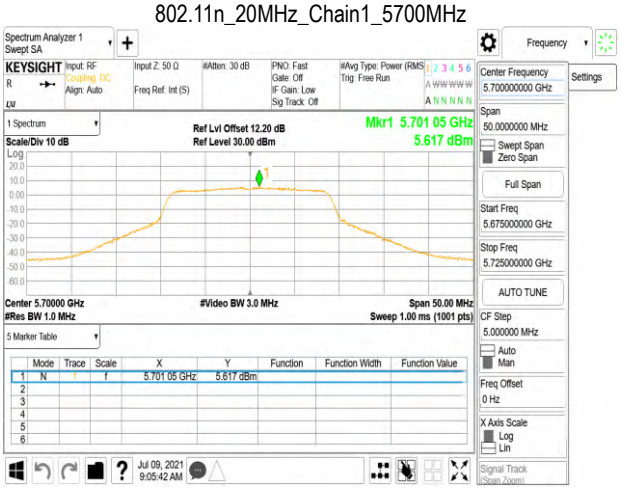


802.11n_20MHz_Chain1_5580MHz



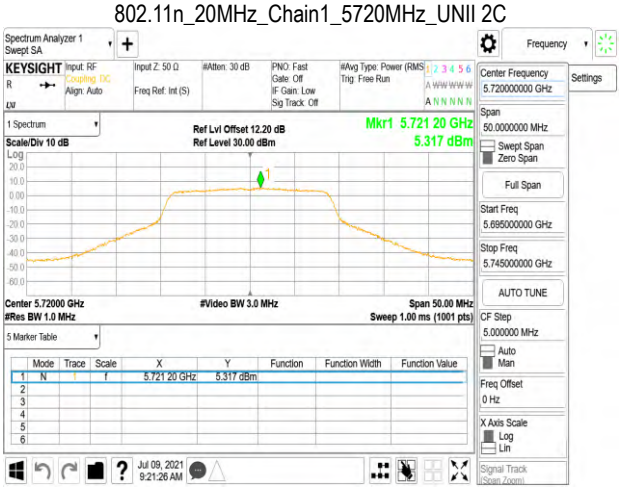
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11n_20MHz_Chain1_5700MHz



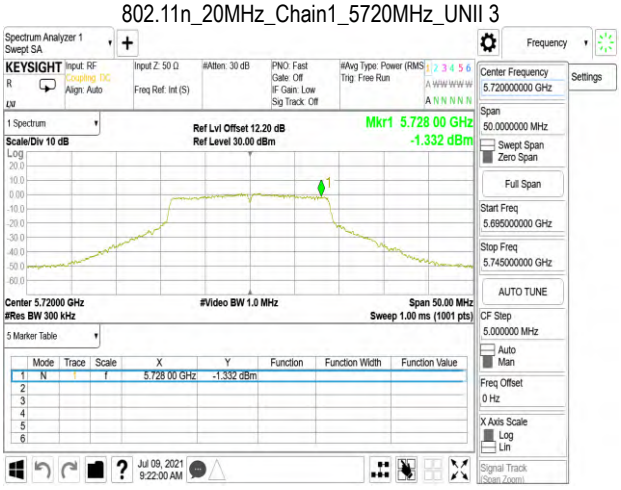
802.11n_20MHz_Chain1_5745MHz

802.11n_20MHz_Chain1_5720MHz_UNII 2C



802.11n_20MHz_Chain1_5785MHz

802.11n_20MHz_Chain1_5720MHz_UNII 3

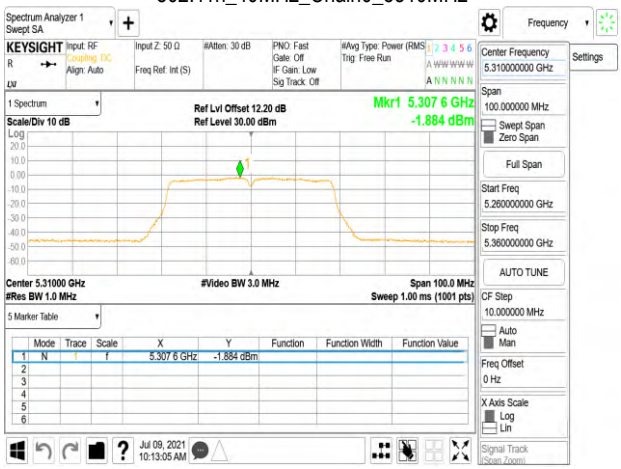


802.11n_20MHz_Chain1_5825MHz

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11n_40MHz_Chain0_5190MHz

802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5230MHz

802.11n_40MHz_Chain0_5510MHz

802.11n_40MHz_Chain0_5270MHz

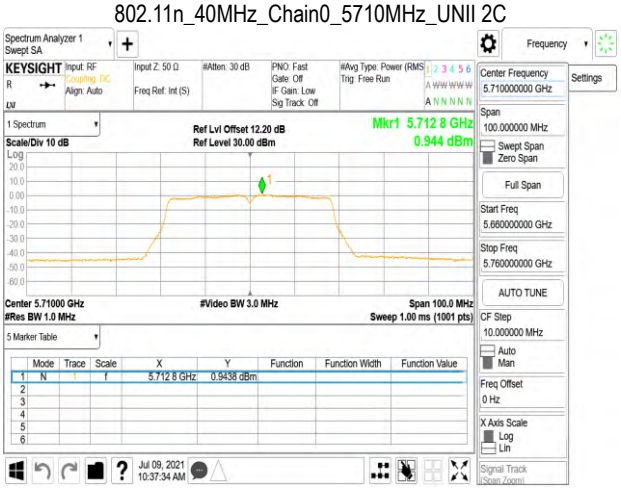
802.11n_40MHz_Chain0_5550MHz

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11n_40MHz_Chain0_5670MHz

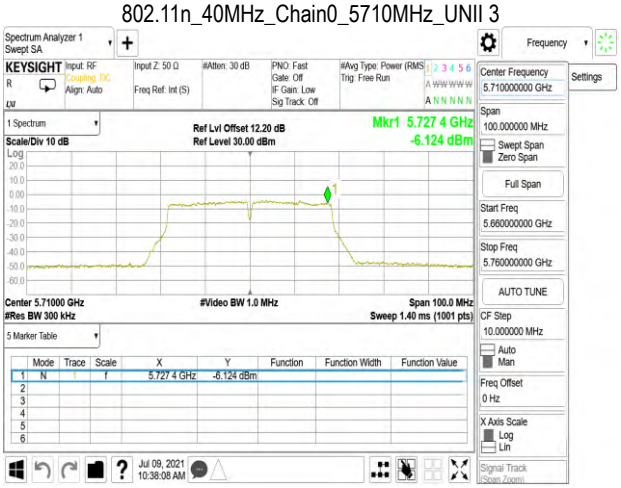
802.11n_40MHz_Chain0_5755MHz

802.11n_40MHz_Chain0_5710MHz_UNII 2C



802.11n_40MHz_Chain0_5795MHz

802.11n_40MHz_Chain0_5710MHz_UNII 3



802.11n_40MHz_Chain1_5190MHz

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.

802.11n_40MHz_Chain1_5230MHz

802.11n_40MHz_Chain1_5510MHz

802.11n_40MHz_Chain1_5270MHz

802.11n_40MHz_Chain1_5550MHz

802.11n_40MHz_Chain1_5310MHz

802.11n_40MHz_Chain1_5670MHz

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
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.tw/Terms-and-Conditions and for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com.tw/Terms-and-Conditions. 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.