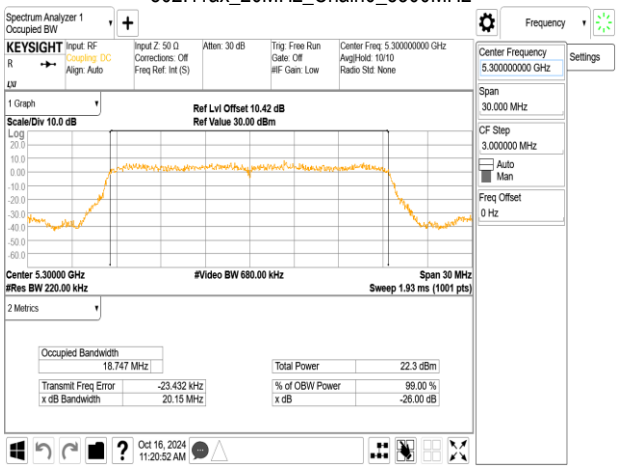
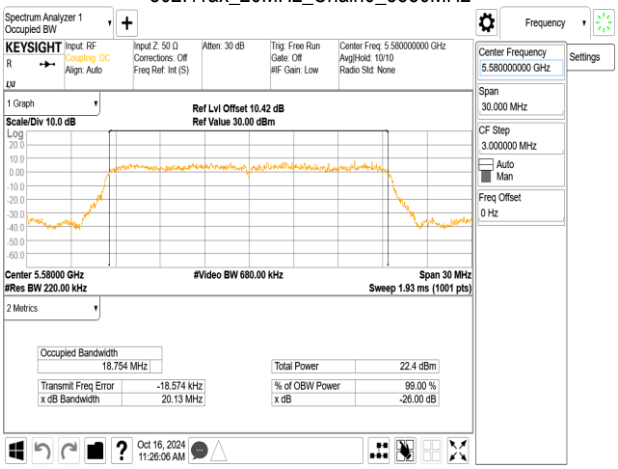
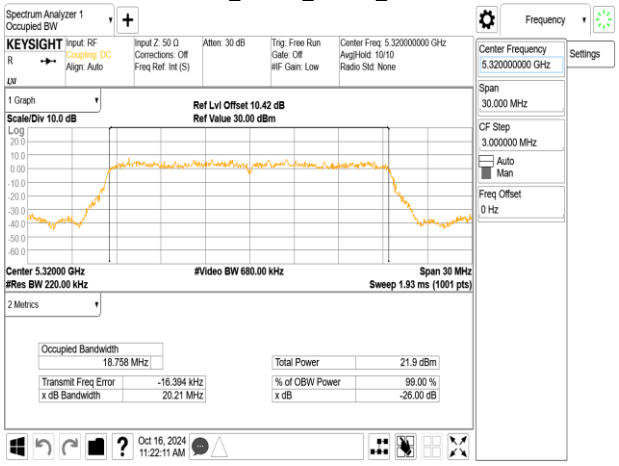
802.11ax_20MHz_Chain0_5300MHz



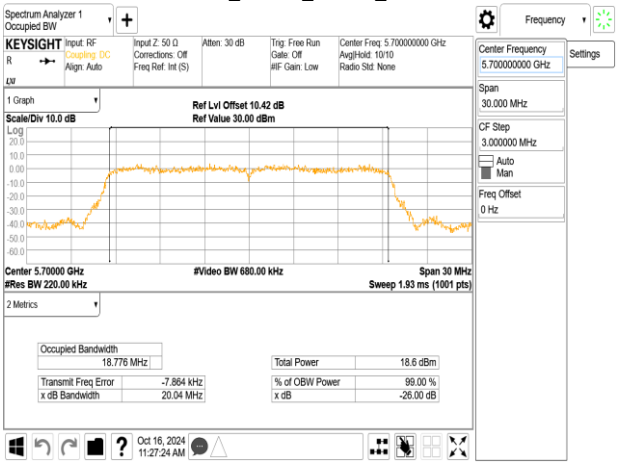
802.11ax_20MHz_Chain0_5580MHz



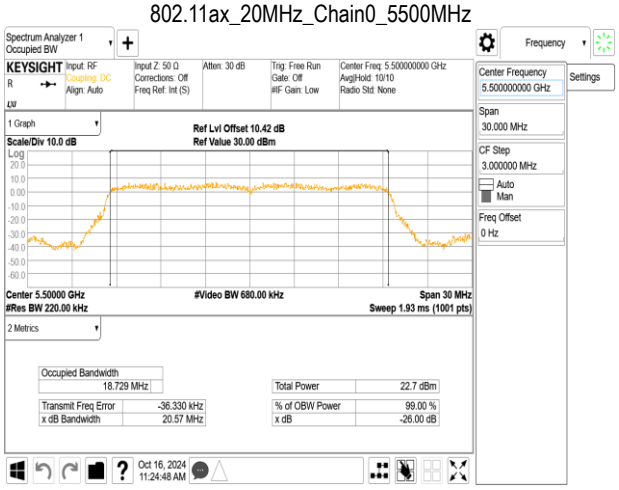
802.11ax_20MHz_Chain0_5320MHz



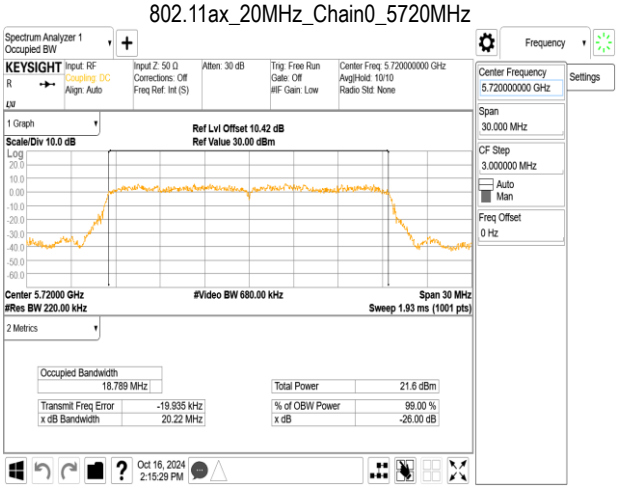
802.11ax_20MHz_Chain0_5700MHz



802.11ax_20MHz_Chain0_5500MHz

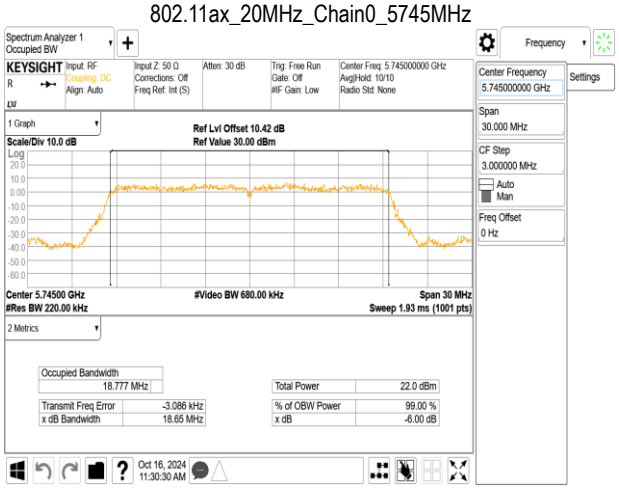


802.11ax_20MHz_Chain0_5720MHz

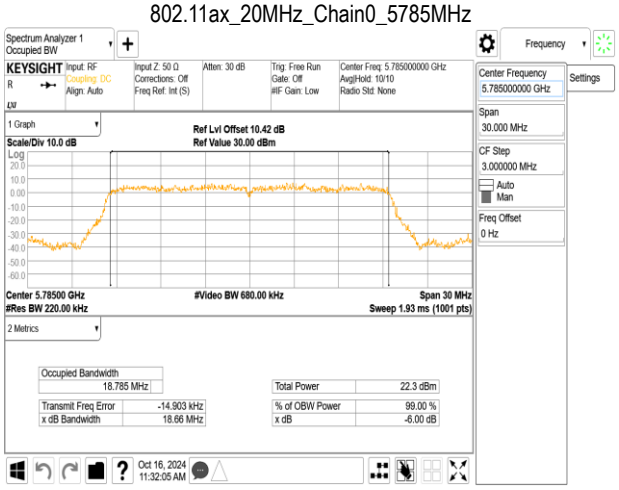


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

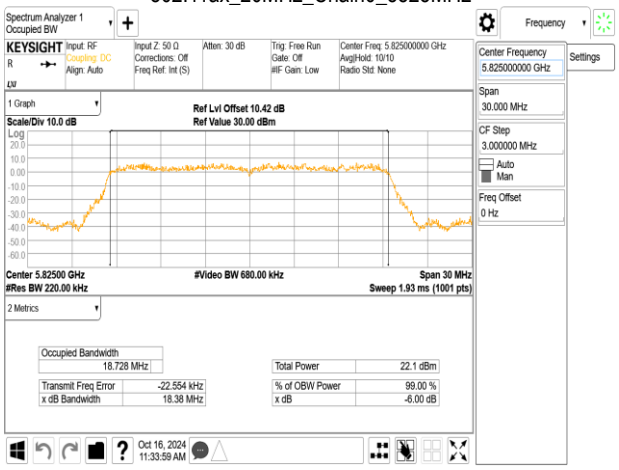
802.11ax_20MHz_Chain0_5745MHz



802.11ax_20MHz_Chain0_5785MHz



802.11ax_20MHz_Chain0_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.

9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

9.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

9.1.2 FCC

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Outdoor AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	V	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	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
		Indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
		Subordinate device	Not required	36dBm	Not required	Not required

1. 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.
2. For the 10 log B, B is the 26 dB emission bandwidth.

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.

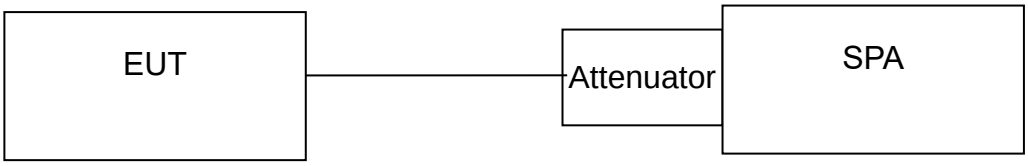
9.1.3 ISED

FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4		
			EIRP	Conducted Output Power	TPC
5150~5250		OEM devices installed in vehicles	30 mW or 1.76 + 10 log10B	N/A	At least 3dB below 30mW EIRP
	V	Other device	200 mW or 10 + 10 log10B dBm	N/A	N/A
5250~5350		OEM devices installed in vehicles	30 mW or 1.76 + 10 log10B	N/A	At least 3dB below 30mW EIRP
	V	Other device	1.0 W or 17 + 10 log10B dBm	250 mW or 11 +10 log10B	EIRP >500mW, at least 6dB below 1W EIRP
		Outdoor Fixed with EIRP>200mW	-13 dBW/MHz for 0°≤ θ< 8° -13 −0.716 (θ-8) dBW/MHz for 8° ≤ θ< 40° -35.9 −1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤45° -42 dBW/MHz for θ > 45°	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	V	All	1.0 W or 17 + 10 log10B dBm	250 mW or 11 +10 log10B	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	V	All	N/A	1 W	N/A

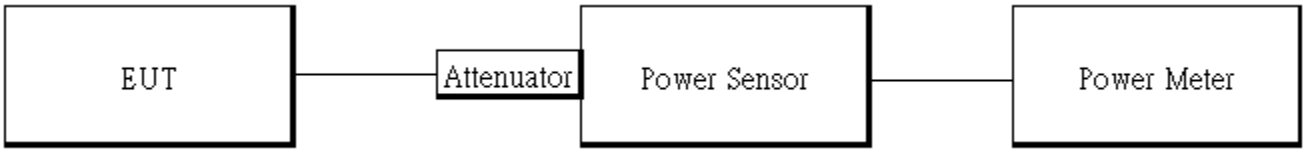
1 For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 10 log B, B is the 99% emission bandwidth.

9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



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 Procedure

9.3.1 Duty Cycle Measurements

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

9.3.2 Output Power Measurements

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.

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

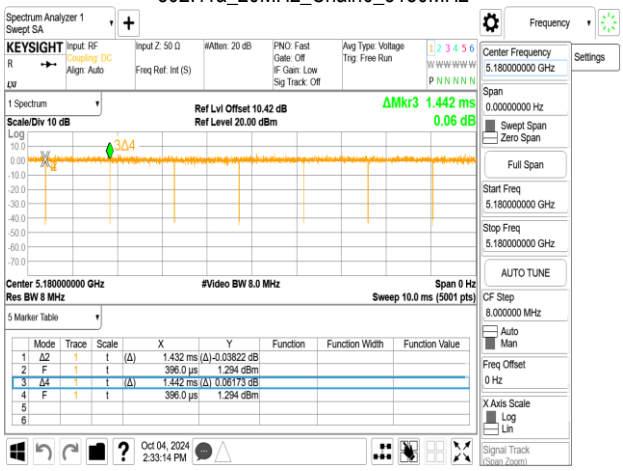
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

9.4 Duty Cycle Measurement Result

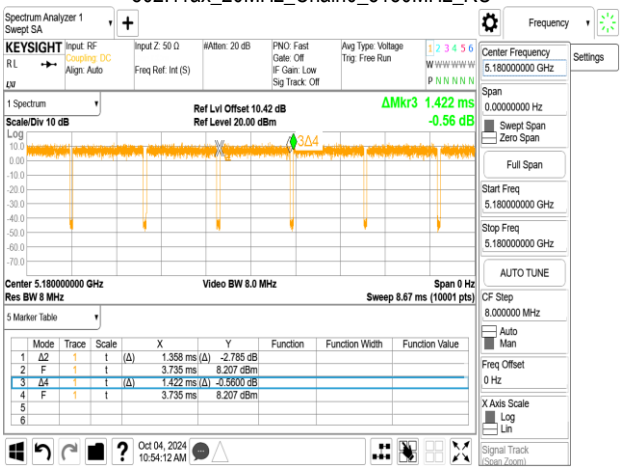
Mode		Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a		99.31	0.03	0.70	0.01
802.11n_20		99.41	0.03	0.75	0.01
802.11ac_20		99.41	0.03	0.74	0.01
Mode	**RU Config**	**Duty Cycle (%) =Ton / (Ton+Toff)**	**Duty Factor (dB) =10*log (1/Duty Cycle)**	**1/T (kHz)**	**VBW setting (kHz)**
802.11ax_20	SU	99.24	0.03	0.96	0.01
	RU	95.50	0.20	0.74	1.00
	26 RU	95.50	0.20	0.74	1.00
	52 RU	95.50	0.20	0.74	1.00
	106 RU	95.50	0.20	0.74	1.00

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.

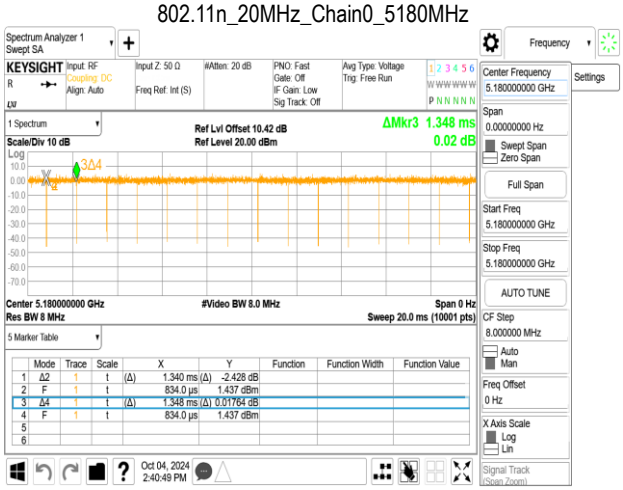
802.11a_20MHz_Chain0_5180MHz



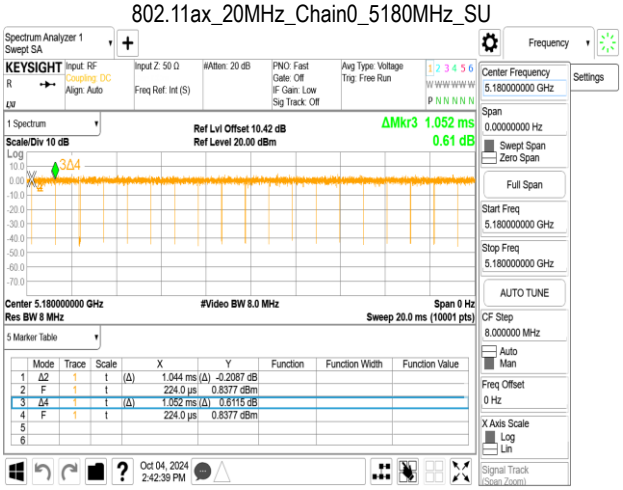
802.11ax_20MHz_Chain0_5180MHz_RU



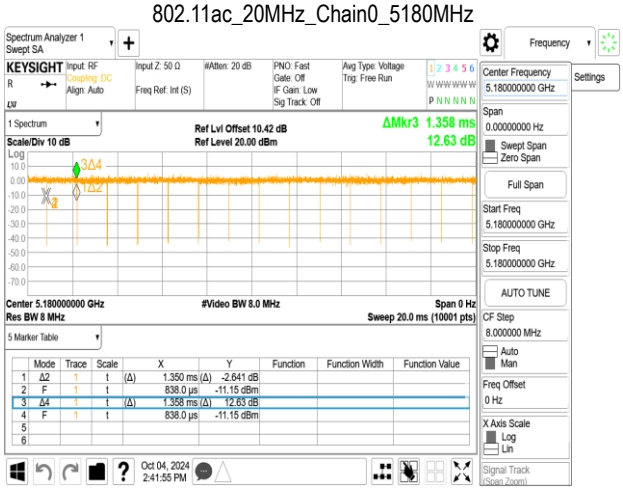
802.11n_20MHz_Chain0_5180MHz



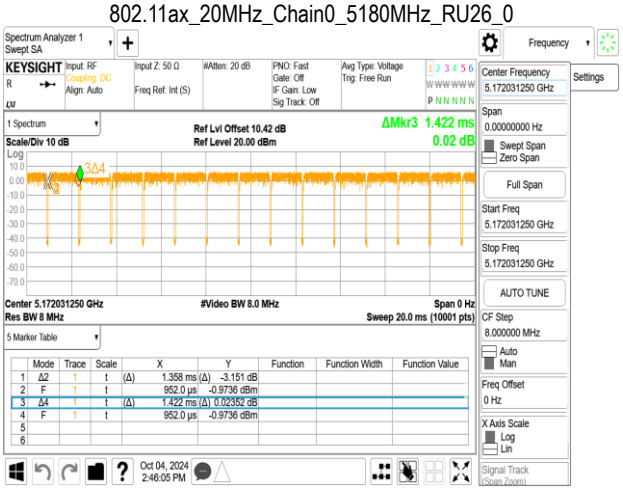
802.11ax_20MHz_Chain0_5180MHz_SU



802.11ac_20MHz_Chain0_5180MHz

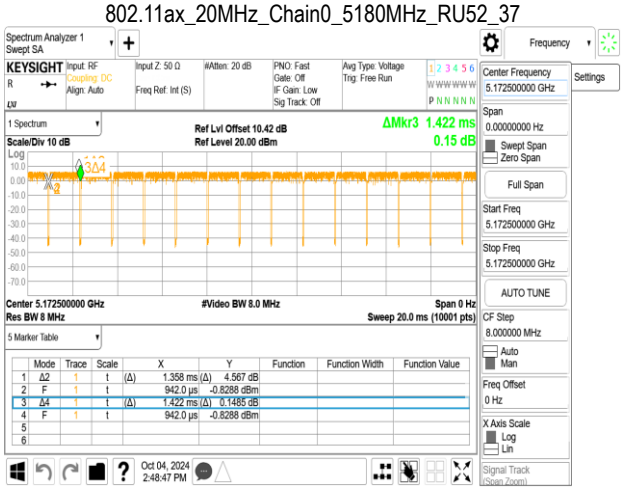


802.11ax_20MHz_Chain0_5180MHz_RU26_0

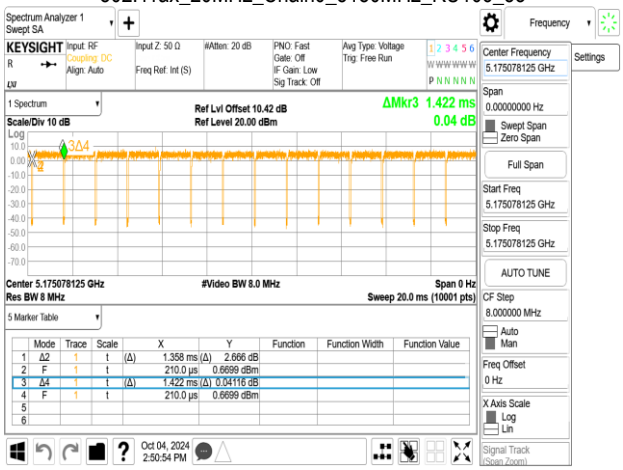


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

802.11ax_20MHz_Chain0_5180MHz_RU52_37



802.11ax_20MHz_Chain0_5180MHz_RU106_53



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 Output Power Measurement Result

9.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	19	62.374	**17.95**	23.98	PASS
44	5220	6	19	61.945	17.92	23.98	PASS
48	5240	6	19	59.704	17.76	23.98	PASS
52	5260	6	19	59.842	**17.77**	23.98	PASS
60	5300	6	19.5	58.345	17.66	23.98	PASS
64	5320	6	19.5	57.678	17.61	23.98	PASS
100	5500	6	19.5	56.625	17.53	23.98	PASS
116	5580	6	19.5	59.293	**17.73**	23.98	PASS
140	5700	6	21	58.750	17.69	23.98	PASS
144	5720(U-NII 2C)	6	21.5	47.055	16.73	22.73	PASS
144	5720 (U-NII 3)	6	21.5	15.464	11.89	30	PASS
149	5745	6	20.5	59.980	17.78	30	PASS
157	5785	6	21	61.803	**17.91**	30	PASS
165	5825	6	21	60.814	17.84	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17	36.105	15.58	23.98	PASS
44	5220	MCS0	18.5	49.269	**16.93**	23.98	PASS
48	5240	MCS0	18.5	48.705	16.88	23.98	PASS
52	5260	MCS0	18.5	49.382	**16.94**	23.98	PASS
60	5300	MCS0	18.5	45.454	16.58	23.98	PASS
64	5320	MCS0	18	39.135	15.93	23.98	PASS
100	5500	MCS0	19	48.705	**16.88**	23.98	PASS
116	5580	MCS0	19	46.620	16.69	23.98	PASS
140	5700	MCS0	18	29.962	14.77	23.98	PASS
144	5720(U-NII 2C)	MCS0	20	34.994	15.44	23.98	PASS
144	5720 (U-NII 3)	MCS0	20	10.043	10.02	30	PASS
149	5745	MCS0	19.5	47.596	16.78	30	PASS
157	5785	MCS0	20	48.705	**16.88**	30	PASS
165	5825	MCS0	20	47.051	16.73	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_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17	36.523	15.63	23.98	PASS
44	5220	MCS0	18.5	49.610	**16.96**	23.98	PASS
48	5240	MCS0	18.5	49.382	16.94	23.98	PASS
52	5260	MCS0	18.5	49.610	**16.96**	23.98	PASS
60	5300	MCS0	18.5	48.481	16.86	23.98	PASS
64	5320	MCS0	18	39.407	15.96	23.98	PASS
100	5500	MCS0	18.5	49.042	**16.91**	23.98	PASS
116	5580	MCS0	18.5	46.727	16.70	23.98	PASS
140	5700	MCS0	18	30.379	14.83	23.98	PASS
144	5720(U-NII 2C)	MCS0	18.5	36.169	15.58	23.98	PASS
144	5720 (U-NII 3)	MCS0	18.5	12.089	10.82	30	PASS
149	5745	MCS0	18.5	48.705	16.88	30	PASS
157	5785	MCS0	18.5	49.042	**16.91**	30	PASS
165	5825	MCS0	18.5	48.481	16.86	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.

802.11ax_HE20_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	SU	17	39.202	15.93	23.98	PASS
		MCS0	RU	17	38.815	15.89	23.98	PASS
		MCS0	26/0	13	15.631	11.94	23.98	PASS
		MCS0	26/8	13	15.452	11.89	23.98	PASS
		MCS0	52/37	16	30.974	14.91	23.98	PASS
		MCS0	52/40	16	30.619	14.86	23.98	PASS
		MCS0	106/53	17	38.459	15.85	23.98	PASS
		MCS0	106/54	17	38.106	15.81	23.98	PASS
44	5220	MCS0	SU	18	49.013	**16.90**	23.98	PASS
		MCS0	RU	18	47.315	16.75	23.98	PASS
48	5240	MCS0	SU	18	46.165	16.64	23.98	PASS
		MCS0	RU	17	45.919	16.62	23.98	PASS
52	5260	MCS0	SU	18	48.564	**16.86**	23.98	PASS
		MCS0	RU	18	47.973	16.81	23.98	PASS
60	5300	MCS0	SU	18.5	47.458	16.76	23.98	PASS
		MCS0	RU	18	46.881	16.71	23.98	PASS
64	5320	MCS0	SU	17.5	39.474	15.96	23.98	PASS
		MCS0	RU	17.5	38.904	15.90	23.98	PASS
		MCS0	26/0	12.5	15.101	11.79	23.98	PASS
		MCS0	26/8	12.5	14.859	11.72	23.98	PASS
		MCS0	52/37	16	29.241	14.66	23.98	PASS
		MCS0	52/40	16	28.708	14.58	23.98	PASS
		MCS0	106/53	17.5	37.497	15.74	23.98	PASS
		MCS0	106/54	17.5	38.282	15.83	23.98	PASS
100	5500	MCS0	SU	18.5	45.847	16.61	23.98	PASS
		MCS0	RU	18	45.185	16.55	23.98	PASS
		MCS0	26/0	13	14.997	11.76	23.98	PASS
		MCS0	26/8	13	15.135	11.80	23.98	PASS
		MCS0	52/37	16	29.309	14.67	23.98	PASS
		MCS0	52/40	16	29.716	14.73	23.98	PASS
		MCS0	106/53	18	45.081	16.54	23.98	PASS
		MCS0	106/54	18	45.708	16.60	23.98	PASS
116	5580	MCS0	SU	19	47.132	**16.73**	23.98	PASS
		MCS0	RU	18.5	46.989	16.72	23.98	PASS
140	5700	MCS0	SU	18.5	31.211	14.94	23.98	PASS
		MCS0	RU	18.5	30.903	14.90	23.98	PASS
		MCS0	26/0	13	15.135	11.80	23.98	PASS
		MCS0	26/8	13	14.928	11.74	23.98	PASS
		MCS0	52/37	16.5	24.717	13.93	23.98	PASS
		MCS0	52/40	16.5	24.266	13.85	23.98	PASS
		MCS0	106/53	17.5	30.479	14.84	23.98	PASS
		MCS0	106/54	17.5	30.832	14.89	23.98	PASS
144	5720(U-NII 2C)	MCS0	RU	20	34.262	15.35	23.98	PASS
		MCS0	SU	19.5	34.158	15.33	23.98	PASS
144	5720 (U-NII 3)	MCS0	RU	20	11.691	10.68	30	PASS
		MCS0	SU	19.5	11.656	10.67	30	PASS
149	5745	MCS0	SU	19.5	48.341	16.84	30	PASS
		MCS0	RU	19	47.973	16.81	30	PASS
		MCS0	26/0	14	15.667	11.95	30	PASS
		MCS0	26/8	14	15.452	11.89	30	PASS
		MCS0	52/37	17	30.479	14.84	30	PASS
		MCS0	52/40	17	30.061	14.78	30	PASS
		MCS0	106/53	18.5	45.081	16.54	30	PASS
		MCS0	106/54	18.5	48.084	16.82	30	PASS
157	5785	MCS0	SU	20	49.581	**16.95**	30	PASS
		MCS0	RU	19.5	49.090	16.91	30	PASS
165	5825	MCS0	SU	20	48.119	16.82	30	PASS
		MCS0	RU	19.5	47.643	16.78	30	PASS
		MCS0	26/0	14	14.962	11.75	30	PASS
		MCS0	26/8	14	14.723	11.68	30	PASS
		MCS0	52/37	17	29.922	14.76	30	PASS
		MCS0	52/40	17	29.376	14.68	30	PASS
		MCS0	106/53	19.5	47.753	16.79	30	PASS
		MCS0	106/54	19.5	47.206	16.74	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.

9.5.2 ISED Conducted output power and EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	**59.842**	**17.77**	23.21	PASS
60	5300	58.345	17.66	23.21	PASS
64	5320	57.678	17.61	23.21	PASS
100	5500	56.625	17.53	23.20	PASS
116	5580	**59.293**	**17.73**	23.21	PASS
140	5700	58.750	17.69	23.20	PASS
144	5720(U-NII 2C)	47.055	16.73	22.24	PASS
144	5720 (U-NII 3)	15.464	11.89	30	PASS
149	5745	59.980	17.78	30	PASS
157	5785	**61.803**	**17.91**	30	PASS
165	5825	60.814	17.84	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	**49.382**	**16.94**	23.98	PASS
60	5300	45.454	16.58	23.98	PASS
64	5320	39.135	15.93	23.98	PASS
100	5500	**48.705**	**16.88**	23.98	PASS
116	5580	46.620	16.69	23.98	PASS
140	5700	29.962	14.77	23.98	PASS
144	5720(U-NII 2C)	34.994	15.44	22.41	PASS
144	5720 (U-NII 3)	10.043	10.02	30	PASS
149	5745	47.596	16.78	30	PASS
157	5785	**48.705**	**16.88**	30	PASS
165	5825	47.051	16.73	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_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	**49.610**	**16.96**	23.98	PASS
60	5300	48.481	16.86	23.98	PASS
64	5320	39.407	15.96	23.98	PASS
100	5500	**49.042**	**16.91**	23.98	PASS
116	5580	46.727	16.70	23.98	PASS
140	5700	30.379	14.83	23.98	PASS
144	5720(U-NII 2C)	36.169	15.58	22.41	PASS
144	5720 (U-NII 3)	12.089	10.82	30	PASS
149	5745	48.705	16.88	30	PASS
157	5785	**49.042**	**16.91**	30	PASS
165	5825	48.481	16.86	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.

802.11ax_HE20_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
52	5260	SU	**48.564**	**16.86**	23.98	PASS
		RU	47.973	16.81	23.98	PASS
60	5300	SU	47.458	16.76	23.98	PASS
		RU	46.881	16.71	23.98	PASS
64	5320	SU	39.474	15.96	23.98	PASS
		RU	38.904	15.90	23.98	PASS
		26/0	15.101	11.79	23.98	PASS
		26/8	14.859	11.72	23.98	PASS
		52/37	29.241	14.66	23.98	PASS
		52/40	28.708	14.58	23.98	PASS
		106/53	37.497	15.74	23.98	PASS
		106/54	38.282	15.83	23.98	PASS
100	5500	SU	45.847	16.61	23.98	PASS
		RU	45.185	16.55	23.98	PASS
		26/0	14.997	11.76	23.98	PASS
		26/8	15.135	11.80	23.98	PASS
		52/37	29.309	14.67	23.98	PASS
		52/40	29.716	14.73	23.98	PASS
		106/53	45.081	16.54	23.98	PASS
		106/54	45.708	16.60	23.98	PASS
116	5580	SU	**47.132**	**16.73**	23.98	PASS
		RU	46.989	16.72	23.98	PASS
140	5700	SU	31.211	14.94	23.98	PASS
		RU	30.903	14.90	23.98	PASS
		26/0	15.135	11.80	23.98	PASS
		26/8	14.928	11.74	23.98	PASS
		52/37	24.717	13.93	23.98	PASS
		52/40	24.266	13.85	23.98	PASS
		106/53	30.479	14.84	23.98	PASS
		106/54	30.832	14.89	23.98	PASS
144	5720(U-NII 2C)	SU	34.262	15.35	23.98	PASS
		RU	34.158	15.33	23.98	PASS
144	5720 (U-NII 3)	SU	11.691	10.68	30	PASS
		RU	11.656	10.67	30	PASS
149	5745	SU	48.341	16.84	30	PASS
		RU	47.973	16.81	30	PASS
		26/0	15.667	11.95	30	PASS
		26/8	15.452	11.89	30	PASS
		52/37	30.479	14.84	30	PASS
		52/40	30.061	14.78	30	PASS
		106/53	45.081	16.54	30	PASS
		106/54	48.084	16.82	30	PASS
157	5785	SU	**49.581**	**16.95**	30	PASS
		RU	49.090	16.91	30	PASS
165	5825	SU	48.119	16.82	30	PASS
		RU	47.643	16.78	30	PASS
		26/0	14.962	11.75	30	PASS
		26/8	14.723	11.68	30	PASS
		52/37	29.922	14.76	30	PASS
		52/40	29.376	14.68	30	PASS
		106/53	47.753	16.79	30	PASS
		106/54	47.206	16.74	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.

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	**14.91**	5.18	**102.094**	**20.09**	22.21	PASS
44	5220	14.88	5.18	101.391	20.06	22.2	PASS
48	5240	14.86	5.18	100.925	20.04	22.2	PASS
52	5260	**17.77**	5.18	**197.242**	**22.95**	29.21	PASS
60	5300	17.66	5.18	192.309	22.84	29.21	PASS
64	5320	17.61	5.18	190.108	22.79	29.21	PASS
100	5500	17.53	5.18	186.638	22.71	29.2	PASS
116	5580	**17.73**	5.18	**195.434**	**22.91**	29.21	PASS
140	5700	**17.69**	5.18	**193.642**	**22.87**	29.2	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	**14.85**	5.18	**100.693**	**20.03**	23.01	PASS
44	5220	14.79	5.18	99.312	19.97	23.01	PASS
48	5240	14.83	5.18	100.231	20.01	23.01	PASS
52	5260	**16.94**	5.18	**162.930**	**22.12**	30	PASS
60	5300	16.58	5.18	149.968	21.76	30	PASS
64	5320	15.93	5.18	129.122	21.11	30	PASS
100	5500	**16.88**	5.18	**160.694**	**22.06**	30	PASS
116	5580	16.69	5.18	153.815	21.87	30	PASS
140	5700	**14.77**	5.18	**98.855**	**19.95**	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	**14.90**	5.18	**101.859**	**20.08**	23.01	PASS
44	5220	14.85	5.18	100.693	20.03	23.01	PASS
48	5240	14.88	5.18	101.391	20.06	23.01	PASS
52	5260	**16.96**	5.18	**163.682**	**22.14**	30	PASS
60	5300	16.86	5.18	159.956	22.04	30	PASS
64	5320	15.96	5.18	130.017	21.14	30	PASS
100	5500	**16.91**	5.18	**161.808**	**22.09**	30	PASS
116	5580	16.70	5.18	154.170	21.88	30	PASS
140	5700	**14.83**	5.18	**100.231**	**20.01**	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.

802.11ax_HE20_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	SU	14.96	5.18	103.276	20.14	23.01	PASS
		RU	14.90	5.18	101.859	20.08	23.01	PASS
		26/0	5.99	5.18	13.092	11.17	23.01	PASS
		26/8	5.91	5.18	12.853	11.09	23.01	PASS
		52/37	7.85	5.18	20.091	13.03	23.01	PASS
		52/40	7.77	5.18	19.724	12.95	23.01	PASS
		106/53	10.96	5.18	41.115	16.14	23.01	PASS
		106/54	10.91	5.18	40.644	16.09	23.01	PASS
44	5220	SU	14.91	5.18	102.094	20.09	23.01	PASS
		RU	14.85	5.18	100.693	20.03	23.01	PASS
48	5240	SU	14.88	5.18	101.391	20.06	23.01	PASS
		RU	14.80	5.18	99.541	19.98	23.01	PASS
52	5260	SU	**16.86**	5.18	**159.956**	**22.04**	30	PASS
		RU	16.81	5.18	158.125	21.99	30	PASS
60	5300	SU	16.76	5.18	156.315	21.94	30	PASS
		RU	16.71	5.18	154.525	21.89	30	PASS
64	5320	SU	15.96	5.18	130.017	21.14	30	PASS
		RU	15.90	5.18	128.233	21.08	30	PASS
		26/0	11.79	5.18	49.774	16.97	30	PASS
		26/8	11.72	5.18	48.978	16.90	30	PASS
		52/37	14.66	5.18	96.383	19.84	30	PASS
		52/40	14.58	5.18	94.624	19.76	30	PASS
		106/53	15.74	5.18	123.595	20.92	30	PASS
		106/54	15.83	5.18	126.183	21.01	30	PASS
100	5500	SU	16.61	5.18	151.008	21.79	30	PASS
		RU	16.55	5.18	148.936	21.73	30	PASS
		26/0	11.76	5.18	49.431	16.94	30	PASS
		26/8	11.80	5.18	49.888	16.98	30	PASS
		52/37	14.67	5.18	96.605	19.85	30	PASS
		52/40	14.73	5.18	97.949	19.91	30	PASS
		106/53	16.54	5.18	148.594	21.72	30	PASS
		106/54	16.60	5.18	150.661	21.78	30	PASS
116	5580	SU	**16.73**	5.18	**155.239**	**21.91**	30	PASS
		RU	16.72	5.18	154.882	21.90	30	PASS
140	5700	SU	14.94	5.18	102.802	20.12	30	PASS
		RU	14.90	5.18	101.859	20.08	30	PASS
		26/0	11.80	5.18	49.888	16.98	30	PASS
		26/8	11.74	5.18	49.204	16.92	30	PASS
		52/37	13.93	5.18	81.470	19.11	30	PASS
		52/40	13.85	5.18	79.983	19.03	30	PASS
		106/53	**14.84**	5.18	**100.462**	**20.02**	30	PASS
		106/54	**14.89**	5.18	**101.625**	**20.07**	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.

10 MAXIMUM POWER SPECTRAL DENSITY

10.1 FCC Standard

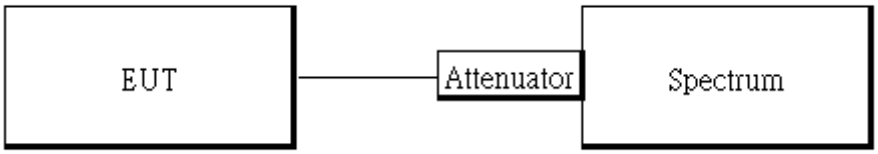
Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
		Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Ponit	17dBm / MHz	23dBi
	V	Client device	11dBm / MHz	6dBi
U-NII-2A	V	All	11dBm / MHz	6dBi
U-NII-2C	V	All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
U-NII-4		Indoor AP	20dBm / MHz e.i.r.p.	Not required
		Indoor client	14dBm / MHz e.i.r.p.	Not required
		Subordinate device	20dBm / MHz e.i.r.p.	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.				

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.

10.2 ISED Standard

FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4	
			EIRP Density	Power Density
5150~5250		OEM devices installed in vehicles	N/A	N/A
	V	Other device	10 dBm/MHz	N/A
5250~5350		OEM devices installed in vehicles	N/A	N/A
	V	Other device	N/A	11 dBm/MHz
5470-5600 and 5650-5725	V	All	N/A	11 dBm/MHz
5725~5850	V	All	N/A	30 dBm/500kHz
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.				

10.3 Test Setup



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.

10.4 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 (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, 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. (1)Duty cycle ≥ 98%：Record the max. reading.

   (2)Duty cycle < 98%：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.

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

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

FCC

POWER DENSITY 802.11a MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	6.433	0.00	6.43		11.00 dBm/MHz	-4.57
5220	7.072	0.00	7.07		11.00 dBm/MHz	-3.93
5240	6.608	0.00	6.61		11.00 dBm/MHz	-4.39
5260	7.233	0.00	7.23		11.00 dBm/MHz	-3.77
5300	6.676	0.00	6.68		11.00 dBm/MHz	-4.32
5320	5.793	0.00	5.79		11.00 dBm/MHz	-5.21
5500	6.615	0.00	6.62		11.00 dBm/MHz	-4.39
5580	6.379	0.00	6.38		11.00 dBm/MHz	-4.62
5700	6.140	0.00	6.14		11.00 dBm/MHz	-4.86
5720 (U-NII 2C)	6.680	0.00	6.68		11.00 dBm/MHz	-4.32
Frequency (MHz)	Ch0 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)	1.122	0.00	2.22	3.34	30.00 dBm/500kHz	-26.66
5745	2.371	0.00	2.22	4.59	30.00 dBm/500kHz	-25.41
5785	1.742	0.00	2.22	3.96	30.00 dBm/500kHz	-26.04
5825	1.877	0.00	2.22	4.10	30.00 dBm/500kHz	-25.90

POWER DENSITY 802.11ac VHT20 MODE						
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	4.919	0.00	4.92		11.00 dBm/MHz	-6.08
5220	6.589	0.00	6.59		11.00 dBm/MHz	-4.41
5240	6.431	0.00	6.43		11.00 dBm/MHz	-4.57
5260	6.469	0.00	6.47		11.00 dBm/MHz	-4.53
5300	5.554	0.00	5.55		11.00 dBm/MHz	-5.45
5320	5.201	0.00	5.20		11.00 dBm/MHz	-5.80
5500	6.067	0.00	6.07		11.00 dBm/MHz	-4.93
5580	5.374	0.00	5.37		11.00 dBm/MHz	-5.63
5700	4.068	0.00	4.07		11.00 dBm/MHz	-6.93
5720 (U-NII 2C)	3.671	0.00	3.67		11.00 dBm/MHz	-7.33
Frequency (MHz)	Ch0 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)	-1.941	0.00	2.22	0.28	30.00 dBm/500kHz	-29.72
5745	-0.287	0.00	2.22	1.93	30.00 dBm/500kHz	-28.07
5785	-0.668	0.00	2.22	1.55	30.00 dBm/500kHz	-28.45
5825	-0.717	0.00	2.22	1.50	30.00 dBm/500kHz	-28.50

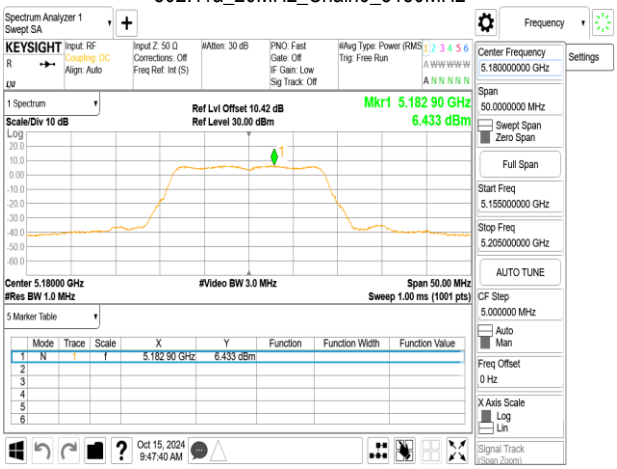
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf, 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 802.11ax HE20 MODE						
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)	Limit	Margin (dB)
5180	SU	5.402	0.00	5.40	11.00 dBm/MHz	-5.60
	RU	4.586	0.00	4.59	11.00 dBm/MHz	-6.41
	26/0	10.144	0.20	10.34	11.00 dBm/MHz	-0.66
	26/8	10.398	0.20	10.60	11.00 dBm/MHz	-0.40
	52/37	10.563	0.20	10.76	11.00 dBm/MHz	-0.24
	52/40	10.433	0.20	10.63	11.00 dBm/MHz	-0.37
	106/53	9.735	0.20	9.94	11.00 dBm/MHz	-1.07
	106/54	10.220	0.20	10.42	11.00 dBm/MHz	-0.58
5220	SU	6.781	0.00	6.78	11.00 dBm/MHz	-4.22
	RU	6.352	0.00	6.35	11.00 dBm/MHz	-4.65
5240	SU	5.227	0.00	5.23	11.00 dBm/MHz	-5.77
	RU	5.928	0.00	5.93	11.00 dBm/MHz	-5.07
5260	SU	6.464	0.00	6.46	11.00 dBm/MHz	-4.54
	RU	5.818	0.00	5.82	11.00 dBm/MHz	-5.18
5300	SU	5.960	0.00	5.96	11.00 dBm/MHz	-5.04
	RU	5.442	0.00	5.44	11.00 dBm/MHz	-5.56
5320	SU	5.517	0.00	5.52	11.00 dBm/MHz	-5.48
	RU	4.409	0.00	4.41	11.00 dBm/MHz	-6.59
	26/0	8.567	0.20	8.77	11.00 dBm/MHz	-2.23
	26/8	8.612	0.20	8.81	11.00 dBm/MHz	-2.19
	52/37	9.898	0.20	10.10	11.00 dBm/MHz	-0.90
	52/40	9.733	0.20	9.93	11.00 dBm/MHz	-1.07
	106/53	8.772	0.20	8.97	11.00 dBm/MHz	-2.03
	106/54	8.739	0.20	8.94	11.00 dBm/MHz	-2.06
5500	SU	5.298	0.00	5.30	11.00 dBm/MHz	-5.70
	RU	6.162	0.00	6.16	11.00 dBm/MHz	-4.84
	26/0	8.559	0.20	8.76	11.00 dBm/MHz	-2.24
	26/8	8.732	0.20	8.93	11.00 dBm/MHz	-2.07
	52/37	8.920	0.20	9.12	11.00 dBm/MHz	-1.88
	52/40	9.844	0.20	10.04	11.00 dBm/MHz	-0.96
	106/53	9.866	0.20	10.07	11.00 dBm/MHz	-0.93
	106/54	9.775	0.20	9.98	11.00 dBm/MHz	-1.03
5580	SU	6.174	0.00	6.17	11.00 dBm/MHz	-4.83
	RU	5.979	0.00	5.98	11.00 dBm/MHz	-5.02
5700	SU	5.566	0.00	5.57	11.00 dBm/MHz	-5.43
	RU	4.381	0.00	4.38	11.00 dBm/MHz	-6.62
	26/0	8.037	0.20	8.24	11.00 dBm/MHz	-2.76
	26/8	7.975	0.20	8.18	11.00 dBm/MHz	-2.83
	52/37	10.097	0.20	10.30	11.00 dBm/MHz	-0.70
	52/40	9.719	0.20	9.92	11.00 dBm/MHz	-1.08
	106/53	7.793	0.20	7.99	11.00 dBm/MHz	-3.01
	106/54	7.560	0.20	7.76	11.00 dBm/MHz	-3.24
5720 (U-NII 2C)	SU	5.188	0.00	5.19	11.00 dBm/MHz	-5.81
	RU	5.228	0.00	5.23	11.00 dBm/MHz	-5.77

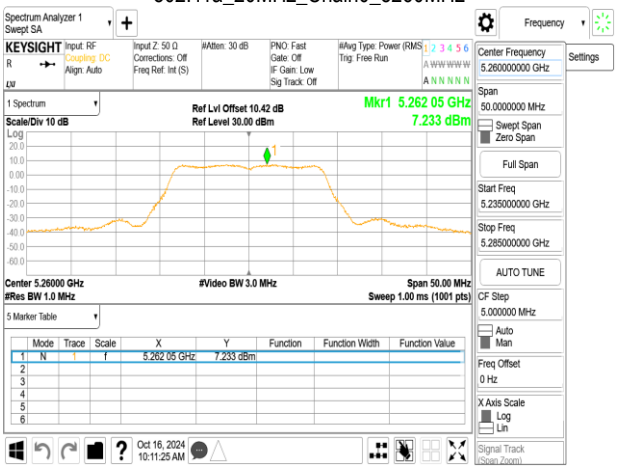
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	SU	0.024	0.00	2.22	2.24	30.00 dBm/500kHz	-27.76
	RU	-0.207	0.00	2.22	2.01	30.00 dBm/501kHz	-27.99
5745	SU	0.740	0.00	2.22	2.96	30.00 dBm/502kHz	-27.04
	RU	0.693	0.00	2.22	2.91	30.00 dBm/503kHz	-27.09
	26/0	5.030	0.20	2.22	7.45	30.00 dBm/504kHz	-22.55
	26/8	4.264	0.20	2.22	6.68	30.00 dBm/505kHz	-23.32
	52/37	4.944	0.20	2.22	7.36	30.00 dBm/506kHz	-22.64
	52/40	5.004	0.20	2.22	7.42	30.00 dBm/507kHz	-22.58
	106/53	4.010	0.20	2.22	6.43	30.00 dBm/508kHz	-23.57
	106/54	3.515	0.20	2.22	5.94	30.00 dBm/509kHz	-24.07
5785	SU	0.852	0.00	2.22	3.07	30.00 dBm/510kHz	-26.93
	RU	0.837	0.00	2.22	3.06	30.00 dBm/511kHz	-26.94
5825	SU	0.808	0.00	2.22	3.03	30.00 dBm/512kHz	-26.97
	RU	0.560	0.00	2.22	2.78	30.00 dBm/513kHz	-27.22
	26/0	4.231	0.20	2.22	6.65	30.00 dBm/514kHz	-23.35
	26/8	4.669	0.20	2.22	7.09	30.00 dBm/515kHz	-22.91
	52/37	4.900	0.20	2.22	7.32	30.00 dBm/516kHz	-22.68
	52/40	4.538	0.20	2.22	6.96	30.00 dBm/517kHz	-23.04
	106/53	4.797	0.20	2.22	7.22	30.00 dBm/518kHz	-22.78
	106/54	4.068	0.20	2.22	6.49	30.00 dBm/507kHz	-23.51

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.

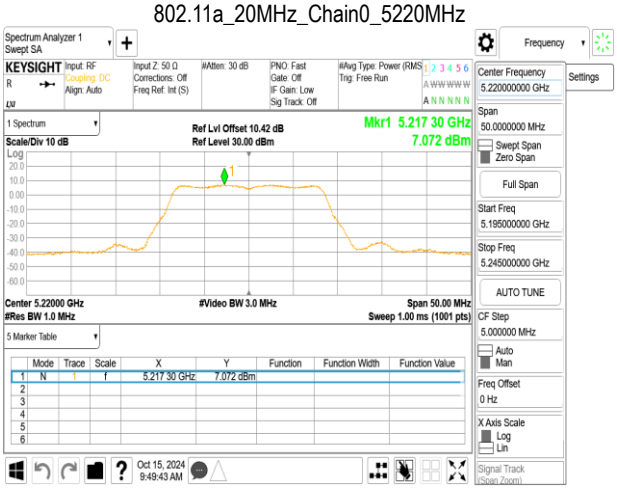
802.11a_20MHz_Chain0_5180MHz



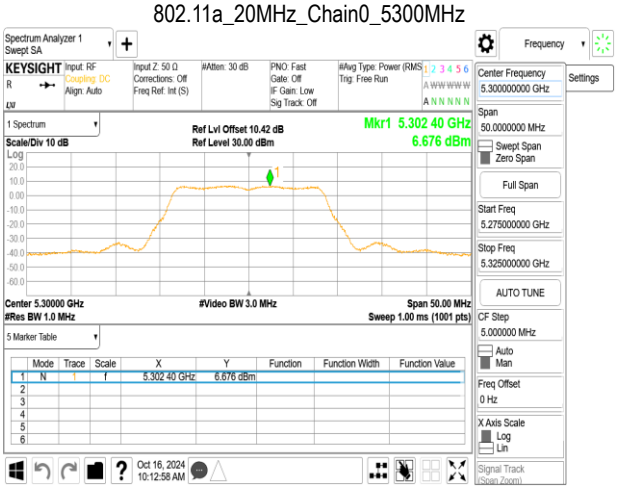
802.11a_20MHz_Chain0_5260MHz



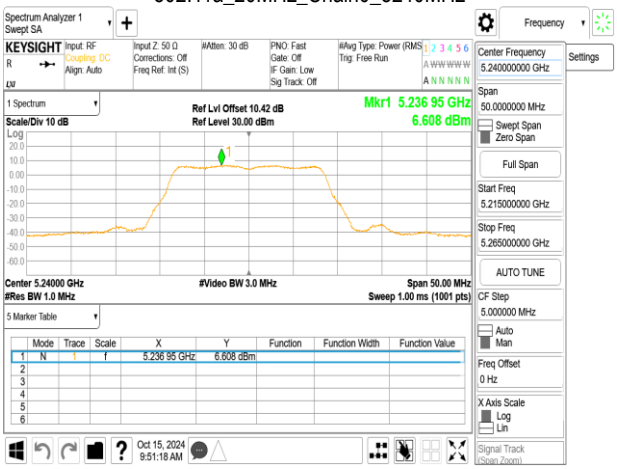
802.11a_20MHz_Chain0_5220MHz



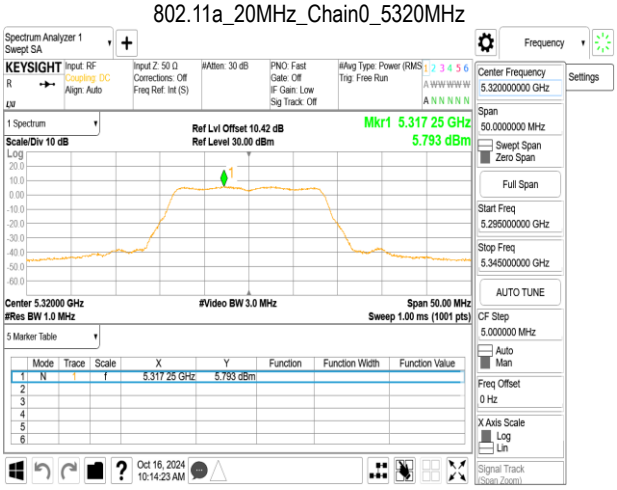
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz

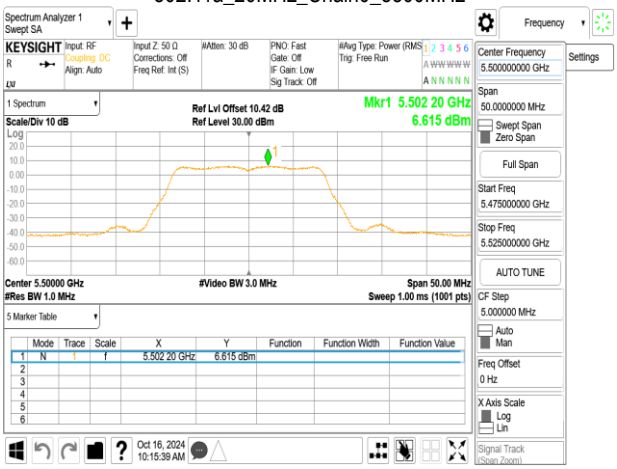


802.11a_20MHz_Chain0_5320MHz

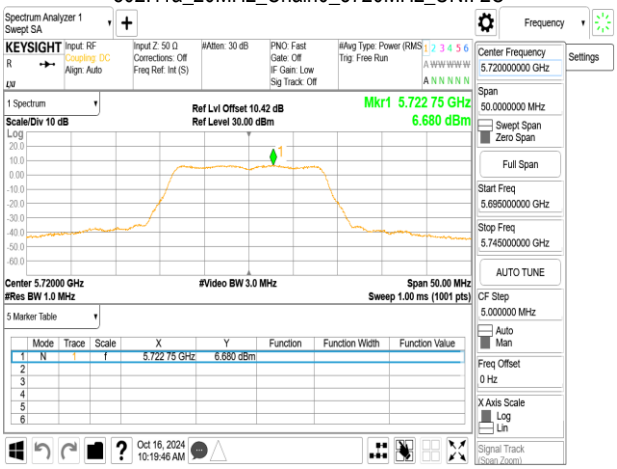


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

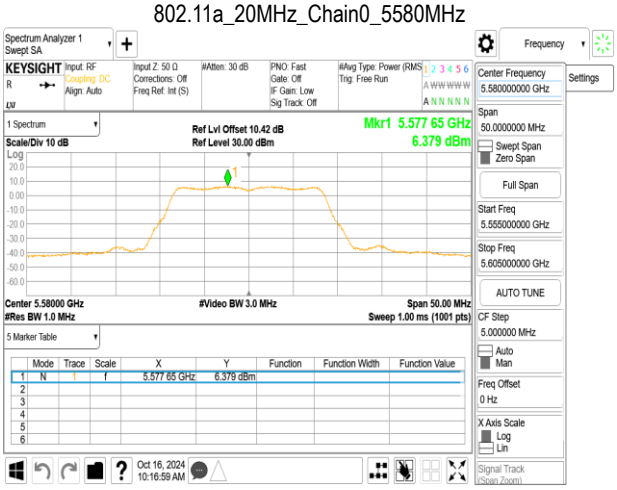
802.11a_20MHz_Chain0_5500MHz



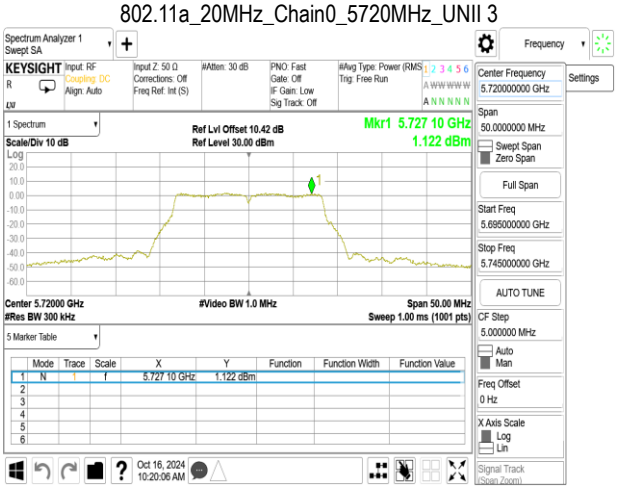
802.11a_20MHz_Chain0_5720MHz_UNII 2C



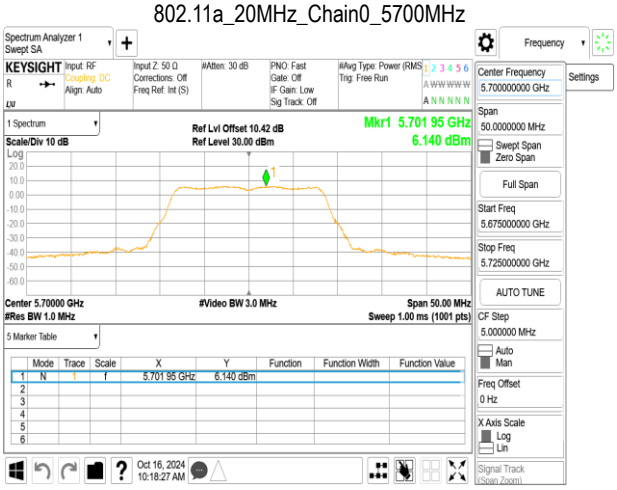
802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5720MHz_UNII 3



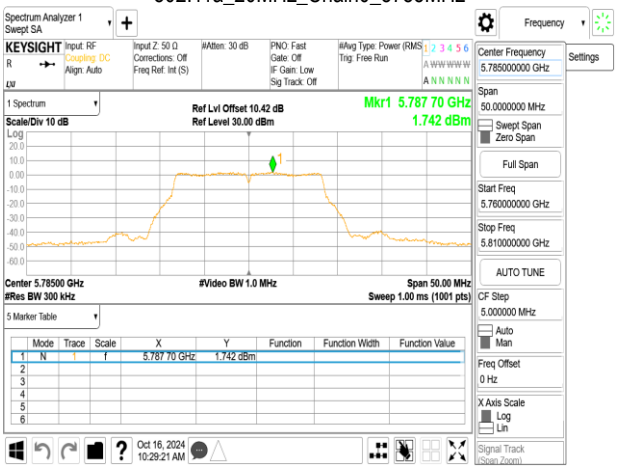
802.11a_20MHz_Chain0_5700MHz



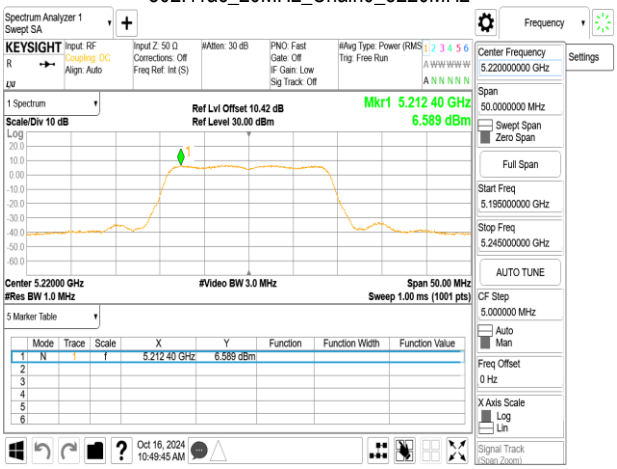
802.11a_20MHz_Chain0_5745MHz

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

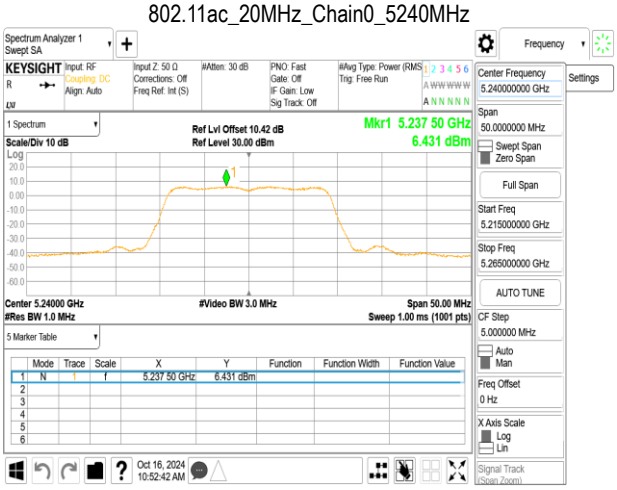


802.11ac_20MHz_Chain0_5220MHz

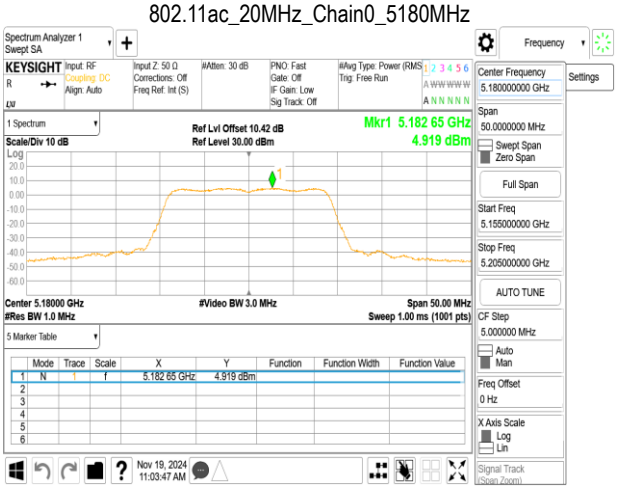


802.11a_20MHz_Chain0_5825MHz

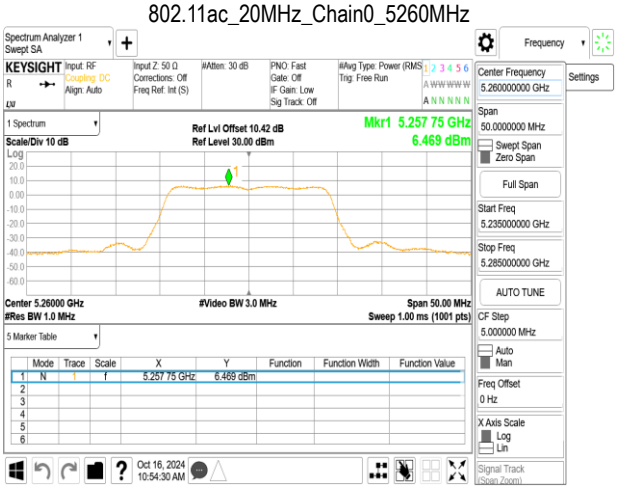
802.11ac_20MHz_Chain0_5240MHz



802.11ac_20MHz_Chain0_5180MHz

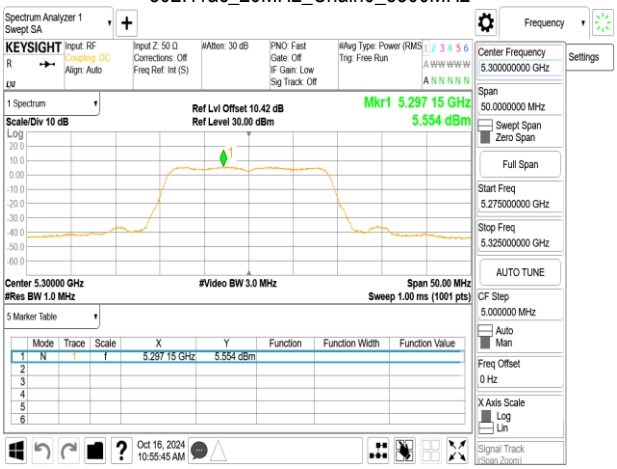


802.11ac_20MHz_Chain0_5260MHz

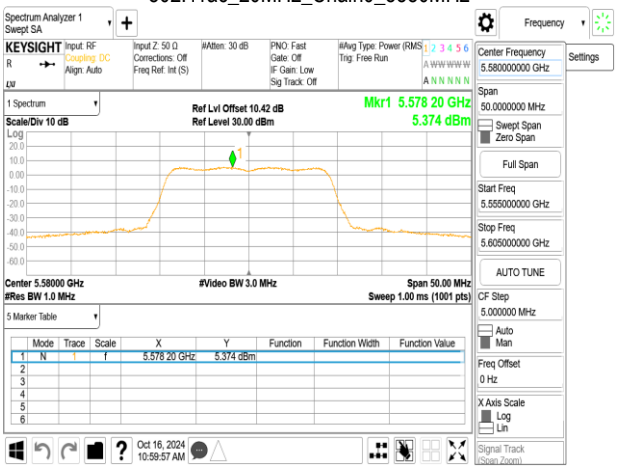


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

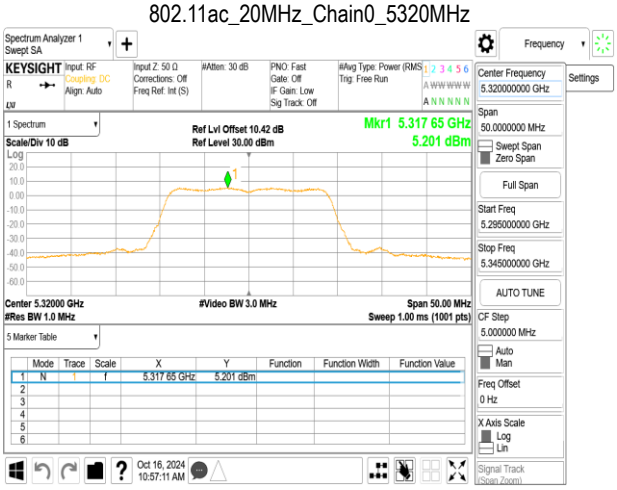
802.11ac_20MHz_Chain0_5300MHz



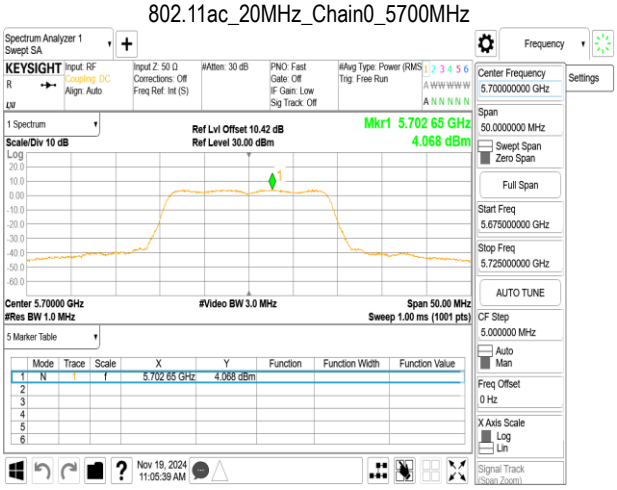
802.11ac_20MHz_Chain0_5580MHz



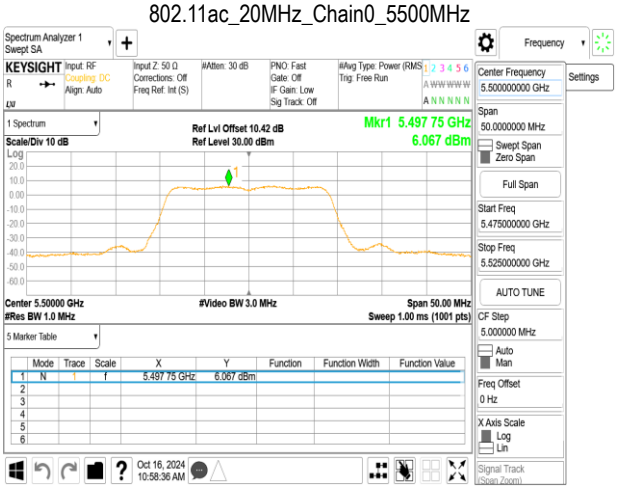
802.11ac_20MHz_Chain0_5320MHz



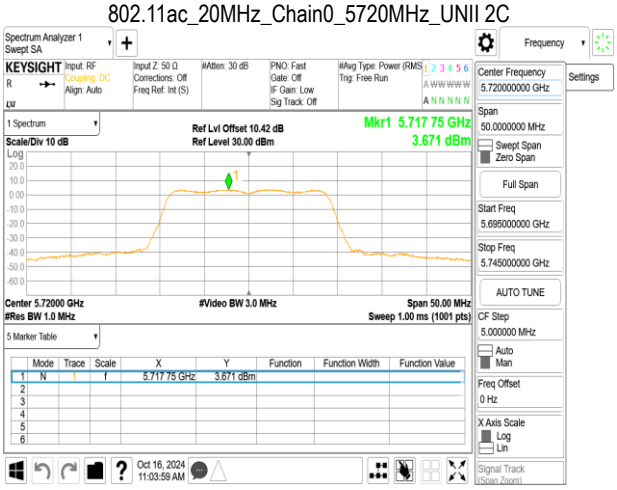
802.11ac_20MHz_Chain0_5700MHz



802.11ac_20MHz_Chain0_5500MHz

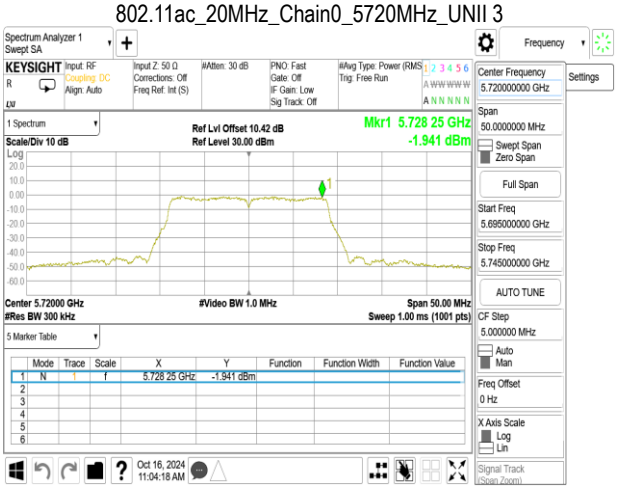


802.11ac_20MHz_Chain0_5720MHz_UNII 2C

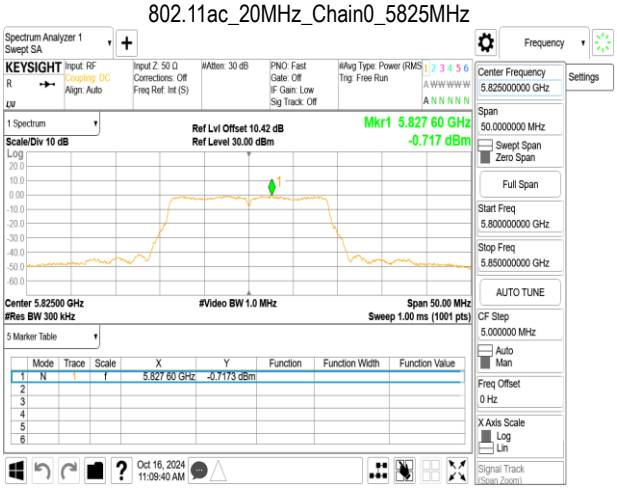


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

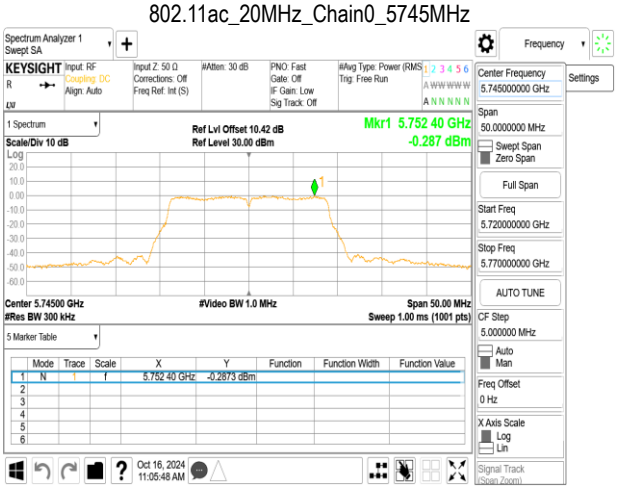
802.11ac_20MHz_Chain0_5720MHz_UNII 3



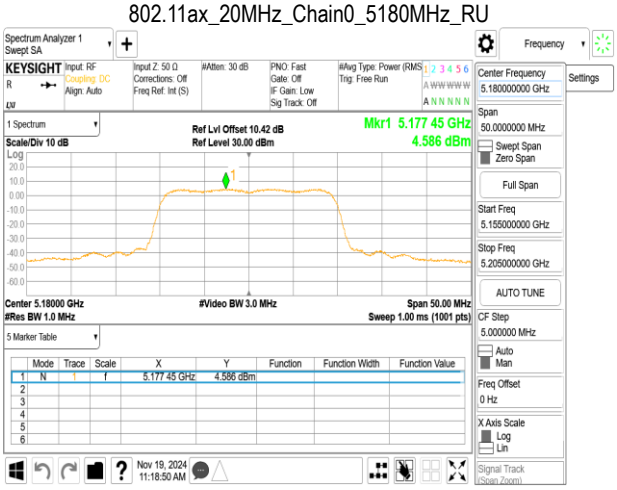
802.11ac_20MHz_Chain0_5825MHz



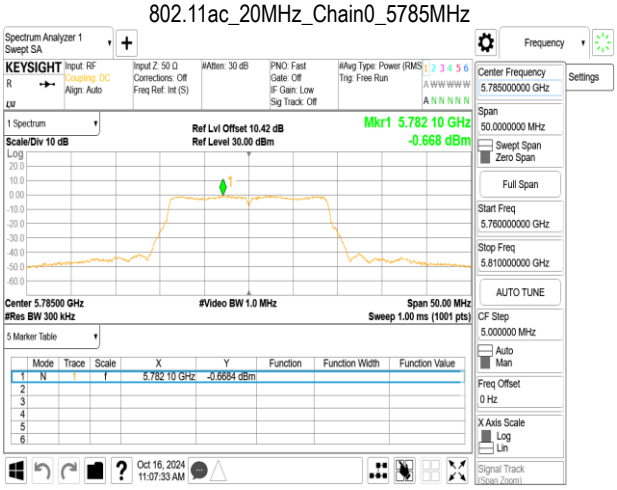
802.11ac_20MHz_Chain0_5745MHz



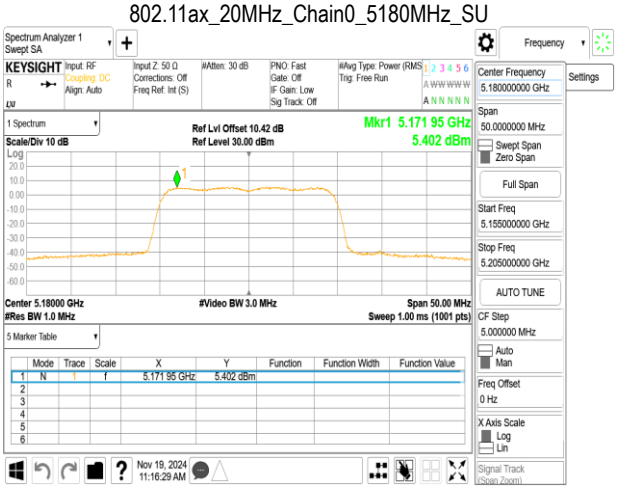
802.11ax_20MHz_Chain0_5180MHz_RU



802.11ac_20MHz_Chain0_5785MHz



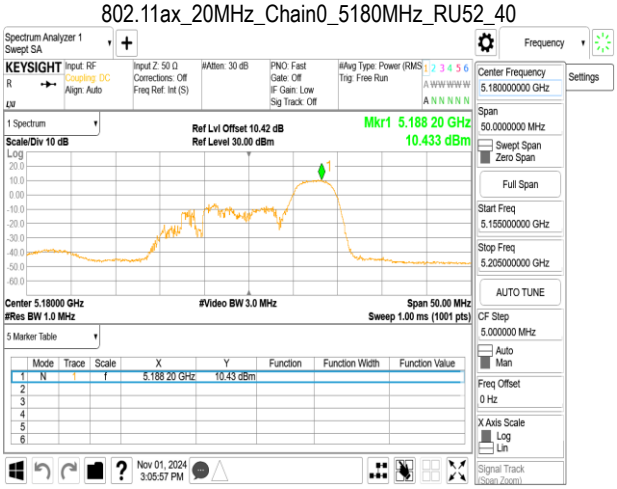
802.11ax_20MHz_Chain0_5180MHz_SU



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.

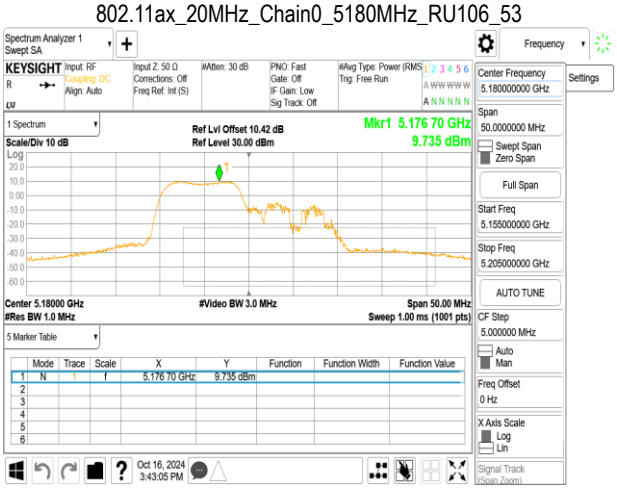
802.11ax_20MHz_Chain0_5180MHz_RU26_0

802.11ax_20MHz_Chain0_5180MHz_RU52_40

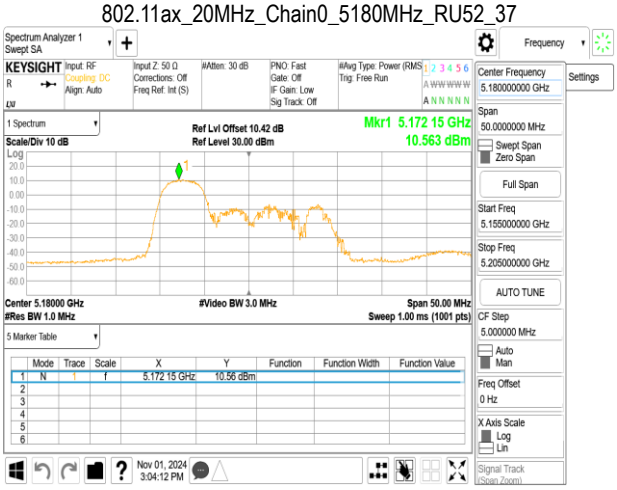


802.11ax_20MHz_Chain0_5180MHz_RU26_8

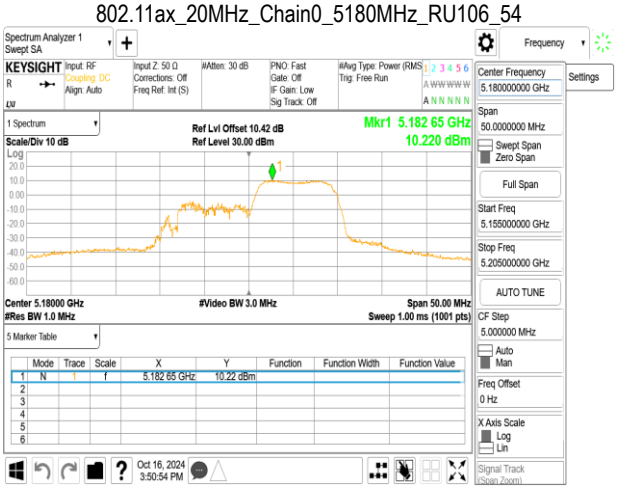
802.11ax_20MHz_Chain0_5180MHz_RU106_53



802.11ax_20MHz_Chain0_5180MHz_RU52_37

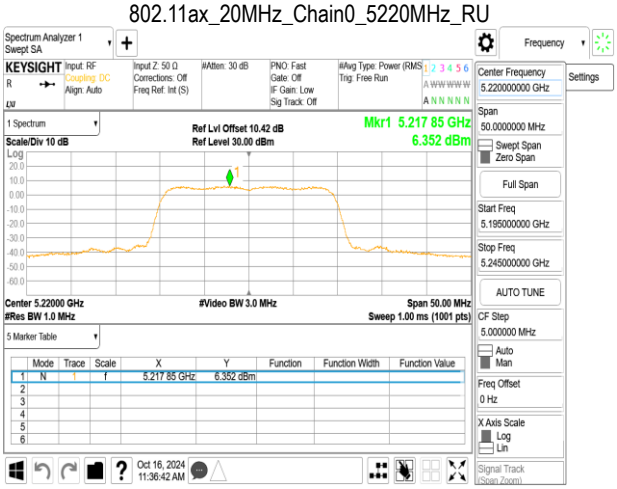


802.11ax_20MHz_Chain0_5180MHz_RU106_54

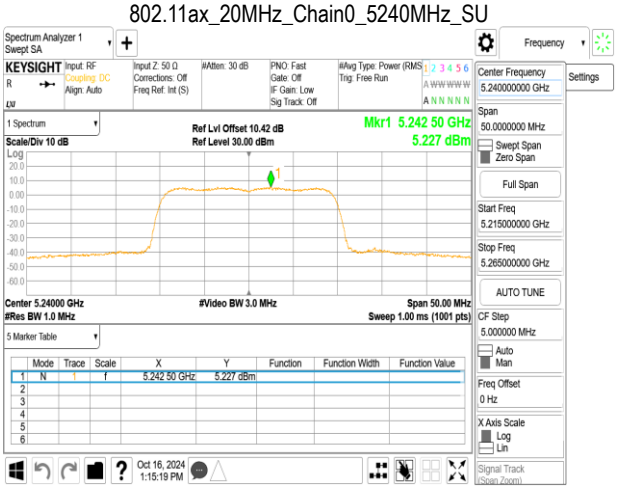


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

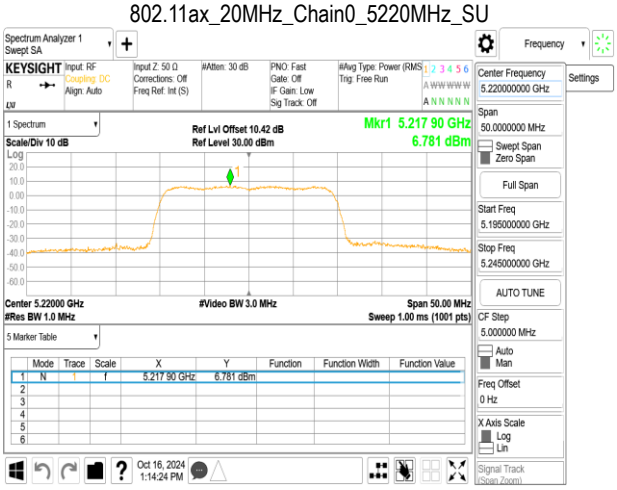
802.11ax_20MHz_Chain0_5220MHz_RU



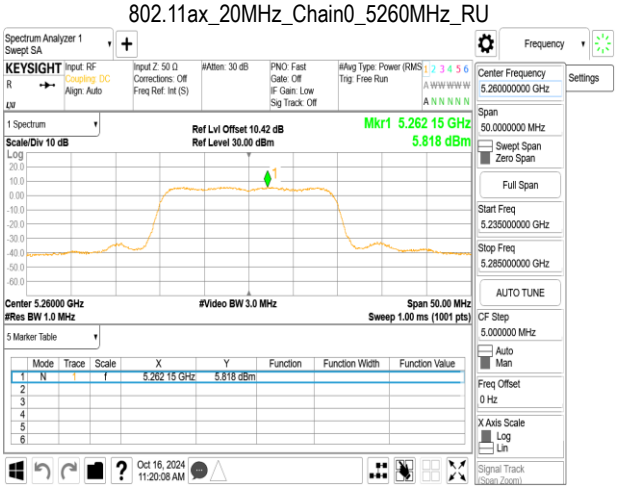
802.11ax_20MHz_Chain0_5240MHz_SU



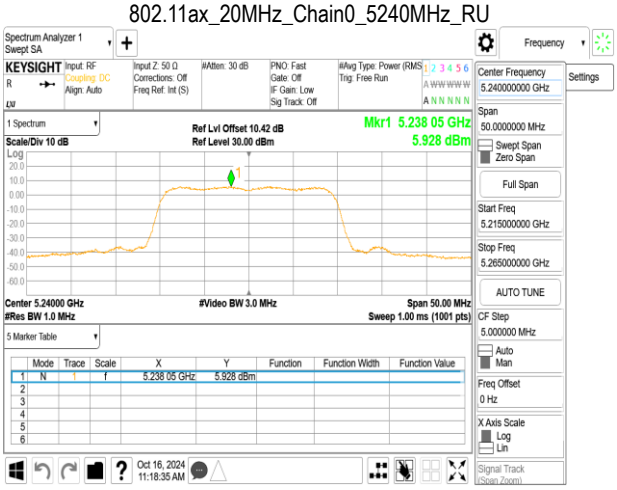
802.11ax_20MHz_Chain0_5220MHz_SU



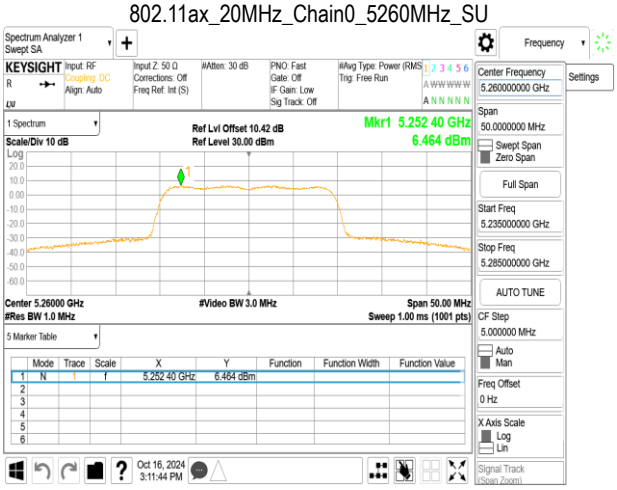
802.11ax_20MHz_Chain0_5260MHz_RU



802.11ax_20MHz_Chain0_5240MHz_RU

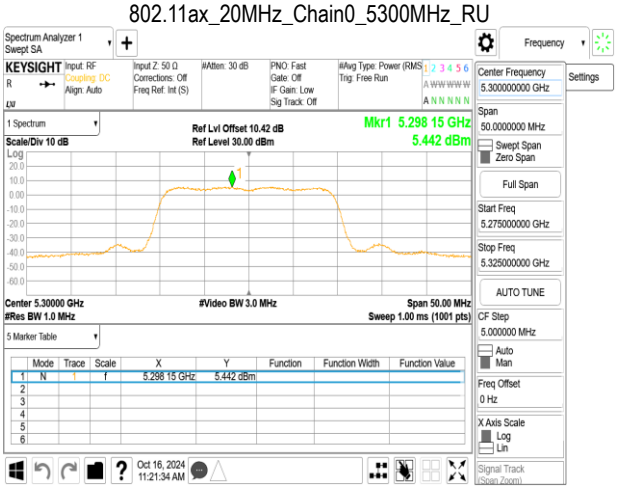


802.11ax_20MHz_Chain0_5260MHz_SU

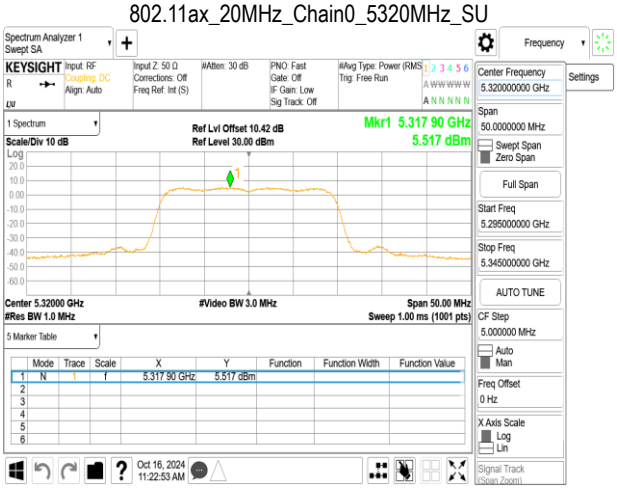


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。
This document is issued by the Company subject to its General Conditions of Service printed overleaf,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

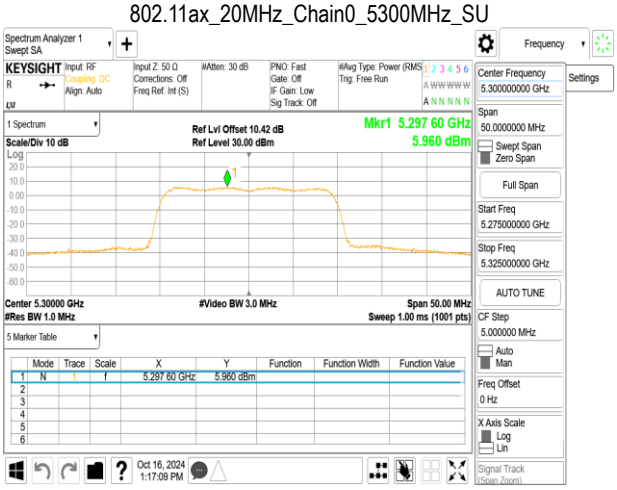
802.11ax_20MHz_Chain0_5300MHz_RU



802.11ax_20MHz_Chain0_5320MHz_SU

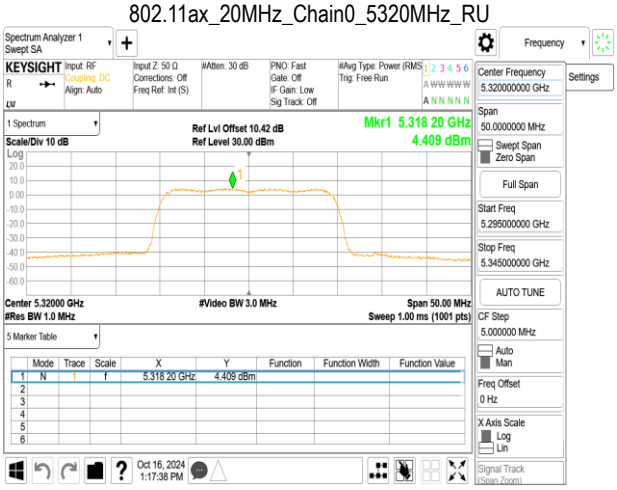


802.11ax_20MHz_Chain0_5300MHz_SU



802.11ax_20MHz_Chain0_5320MHz_RU26_0

802.11ax_20MHz_Chain0_5320MHz_RU



802.11ax_20MHz_Chain0_5320MHz_RU26_8

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.