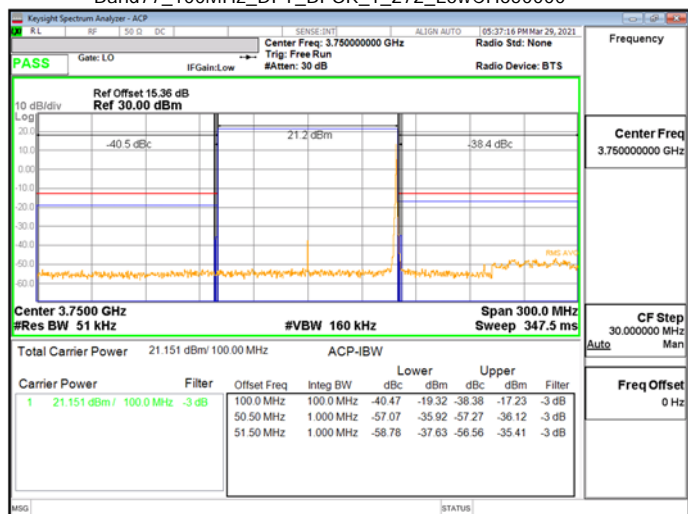


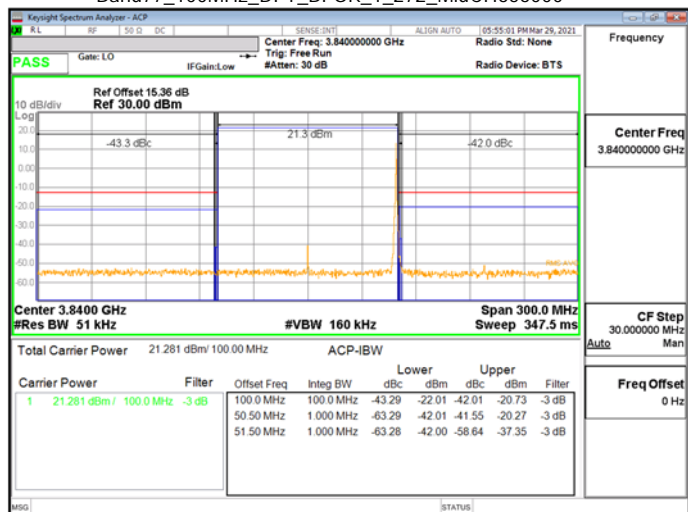
Band77\_100MHz\_DFT\_BPSK\_1\_272\_LowCH650000



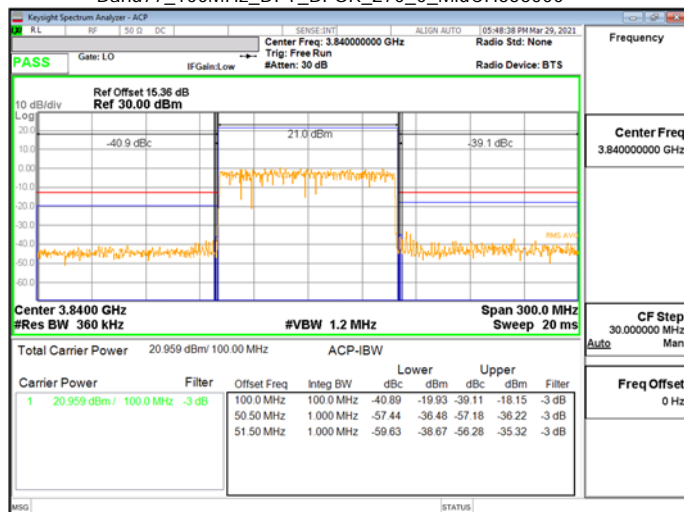
Band77\_100MHz\_DFT\_BPSK\_270\_0\_LowCH650000



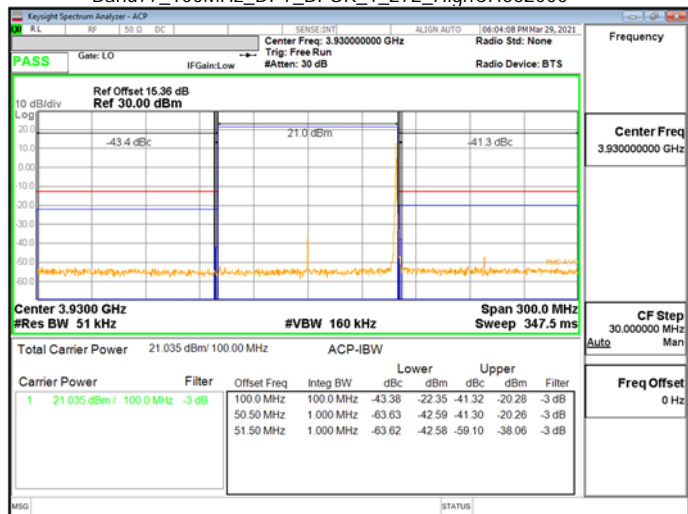
Band77\_100MHz\_DFT\_BPSK\_1\_272\_MidCH656000



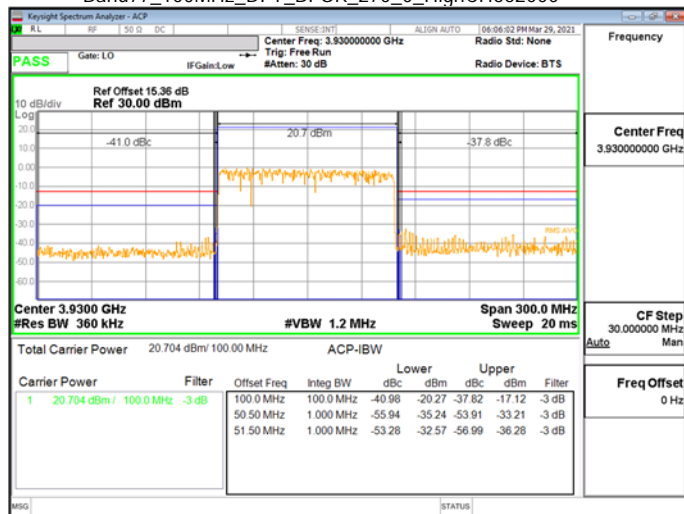
Band77\_100MHz\_DFT\_BPSK\_270\_0\_MidCH656000



Band77\_100MHz\_DFT\_BPSK\_1\_272\_HighCH662000



Band77\_100MHz\_DFT\_BPSK\_270\_0\_HighCH662000



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 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 9.1 Standard Applicable

According to FCC §2.1053,

FCC §27.53(l)(2) for 5G NR n77

(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

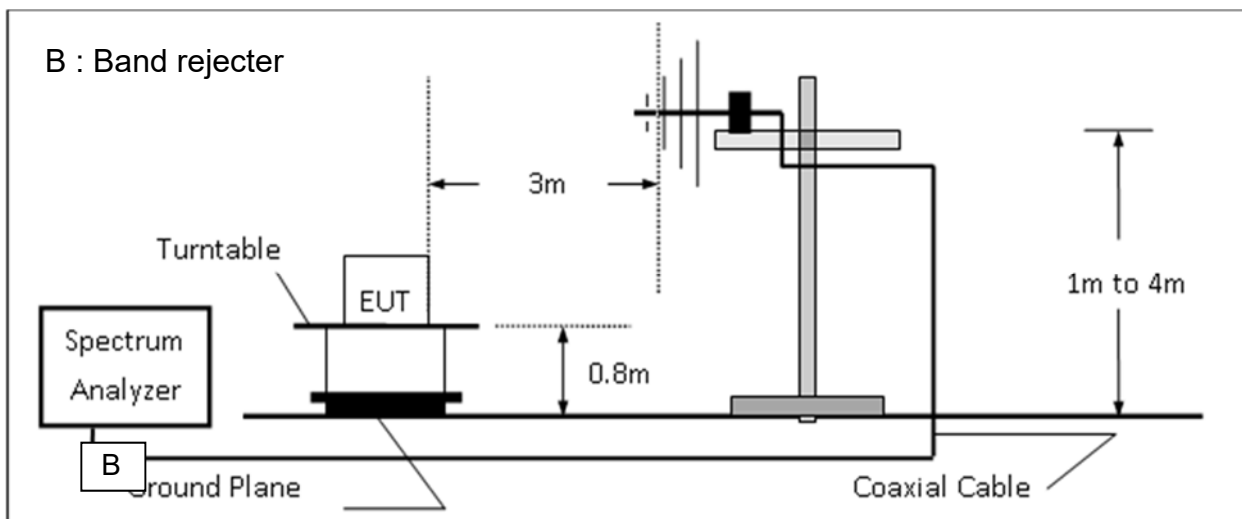
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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。

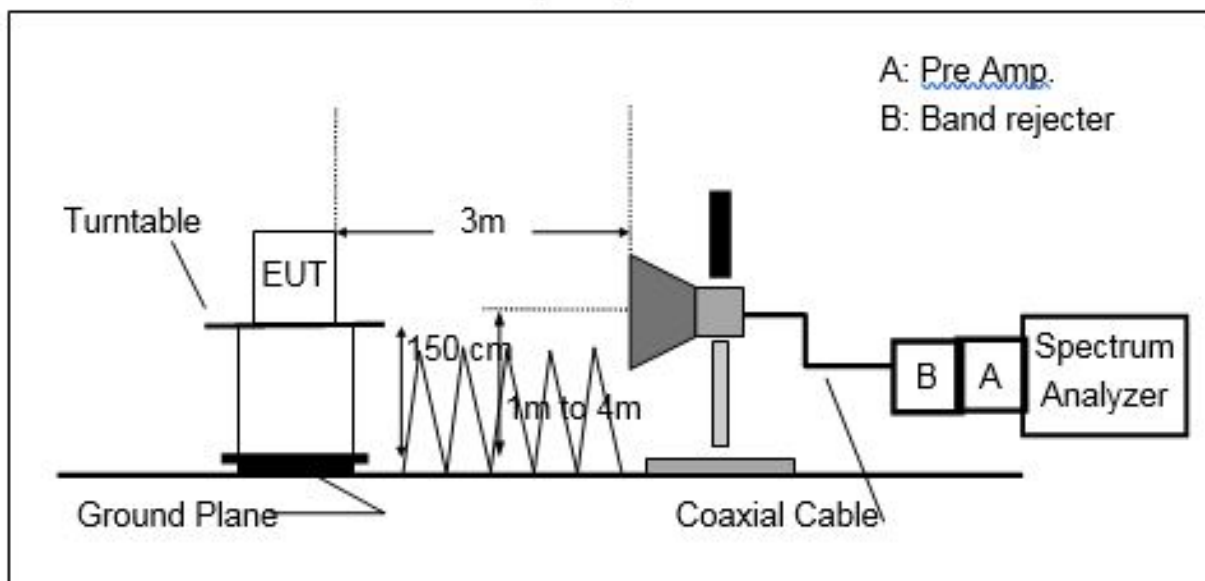
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. 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.

## 9.2 EUT Setup

### Radiated Emission Test Set-Up, Frequency Below 1000MHz



### Radiated Emission Test Set-UP Frequency Over 1 GHz



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:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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 Measurement Equipment Used:

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	300	11/18/2020	11/17/2021
Horn Antenna	SCHWAZBECK	BBHA9120D	603	04/29/2020	04/28/2021
Horn Antenna	SCHWAZBECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWAZBECK	BBHA9170	185	07/30/2020	07/29/2021
Site Cal	SGS	SAC I chamber	N/A	01/01/2021	12/31/2021
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/17/2020	12/16/2021
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2021	01/12/2022
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/29/2020	10/28/2021
UXM 5G	KEYSIGHT	E7515B	MY60101215	11/04/2020	11/03/2021
Test Software	audix	e3	Ver. 6.11-20180413	01/01/2021	12/31/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	12/16/2020	12/15/2021
Pre-Amplifier	HP	8449B	3008A01973	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A09469	12/16/2020	12/15/2021
Bandreject Filter 635-920	Micro-Tronics	WI	4	12/16/2020	12/15/2021
Bandreject Filter 800-1000	Micro-Tronics	EWT	M1	12/16/2020	12/15/2021
Bandreject Filter 1700-2000	Micro-Tronics	EWT	M3	12/16/2020	12/15/2021
Bandreject Filter 2240-2700	Micro-Tronics	WI	2	12/16/2020	12/15/2021
Bandreject Filter 3300-3800	Micro-Tronics	WI	1	12/16/2020	12/15/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	12/16/2020	12/15/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	WHKX4.0/18G-10SS	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021

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.

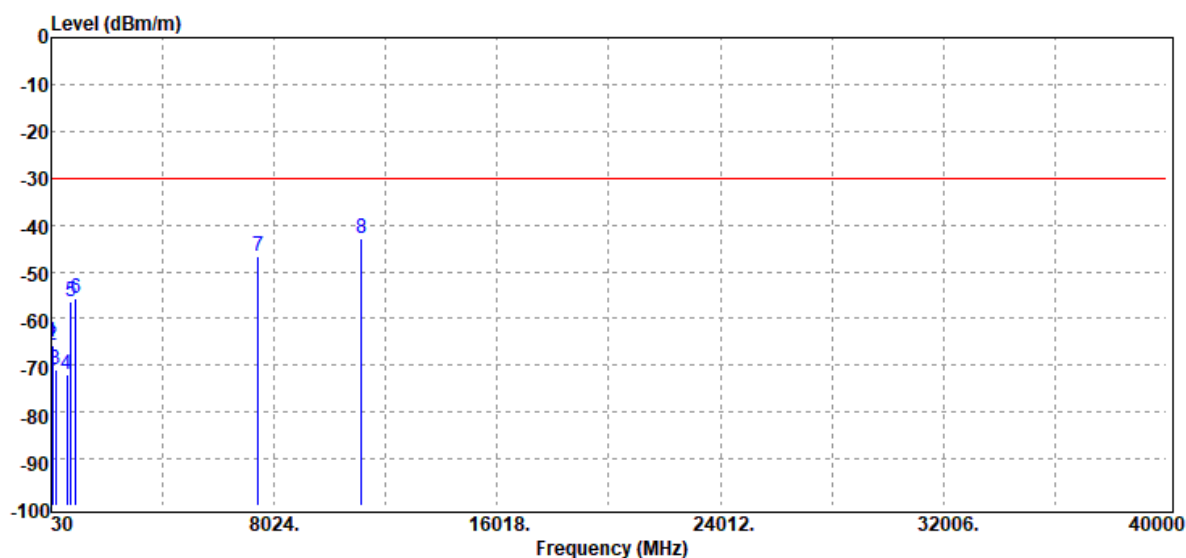
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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 Measurement Result:

Report Number :ER/2021/20012  
 Operation Mode :n77A  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane  
 Test Frequency :3720 MHz

Test Site :SAC I Chamber  
 Test Date :2021-04-08  
 Temp./Humi. :23.9/61  
 Antenna Pol. :VERTICAL  
 Engineer :Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-64.88	-50.72	-13.48	-0.68	-30.00	-34.88
65.89	-65.66	-57.07	-7.79	-0.80	-30.00	-35.66
192.96	-70.83	-73.09	3.69	-1.43	-30.00	-40.83
595.51	-72.02	-73.13	3.76	-2.65	-30.00	-42.02
730.34	-56.57	-56.98	3.14	-2.73	-30.00	-26.57
903.00	-55.83	-56.70	4.27	-3.40	-30.00	-25.83
7440.00	-46.58	-48.44	10.92	-9.06	-30.00	-16.58
11160.00	-42.89	-42.06	11.52	-12.35	-30.00	-12.89

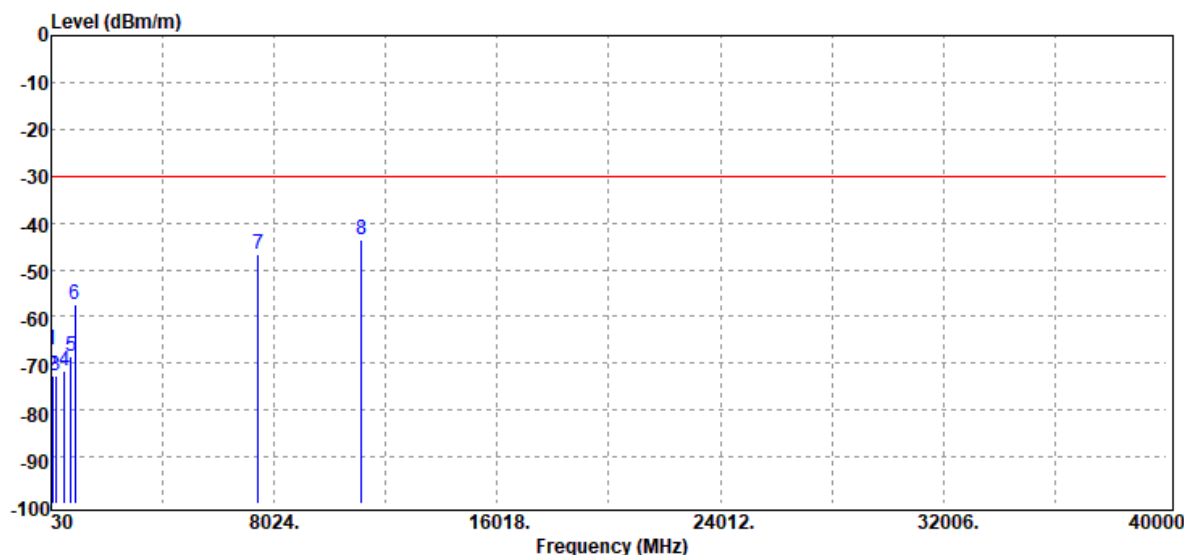
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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.

Report Number :ER/2021/20012  
 Operation Mode :n77A  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane  
 Test Frequency :3720 MHz

Test Site :SAC I Chamber  
 Test Date :2021-04-08  
 Temp./Humi. :23.9/61  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-67.16	-52.84	-13.66	-0.66	-30.00	-37.16
73.65	-72.72	-66.44	-5.42	-0.86	-30.00	-42.72
182.29	-72.73	-73.26	1.92	-1.39	-30.00	-42.73
500.45	-71.75	-73.59	4.25	-2.41	-30.00	-41.75
742.95	-68.37	-68.78	2.84	-2.43	-30.00	-38.37
896.21	-57.34	-58.33	4.33	-3.34	-30.00	-27.34
7440.00	-46.72	-48.58	10.92	-9.06	-30.00	-16.72
11160.00	-43.77	-42.94	11.52	-12.35	-30.00	-13.77

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.

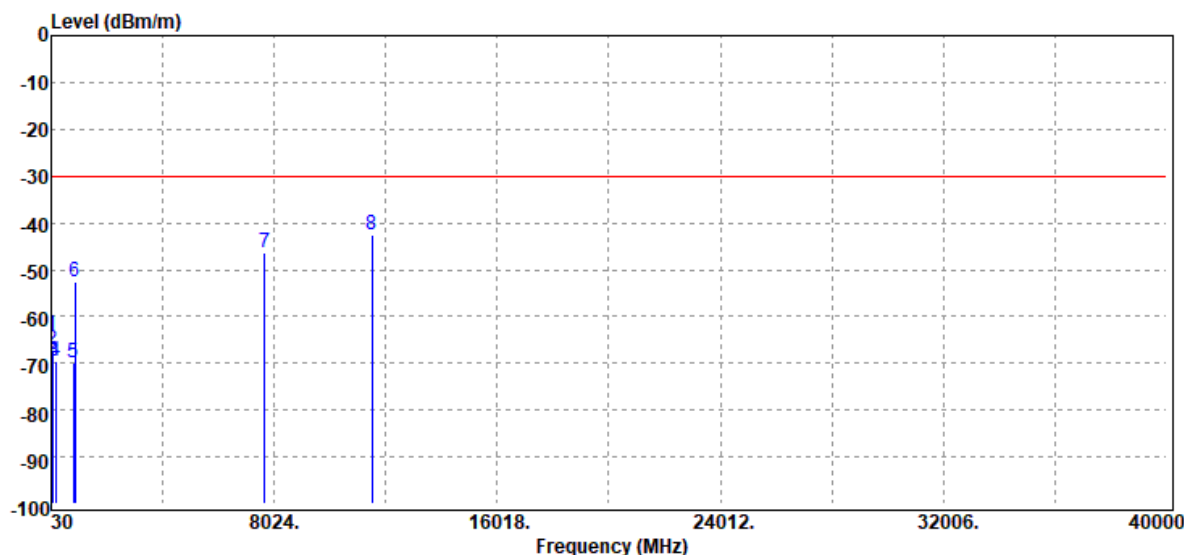
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.



Report Number :ER/2021/20012  
 Operation Mode :n77A  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane  
 Test Frequency :3840 MHz

Test Site :SAC I Chamber  
 Test Date :2021-04-08  
 Temp./Humi. :23.9/61  
 Antenna Pol. :VERTICAL  
 Engineer :Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.98	-49.66	-13.66	-0.66	-30.00	-33.98
65.89	-66.97	-58.38	-7.79	-0.80	-30.00	-36.97
95.96	-69.39	-68.11	-0.28	-1.00	-30.00	-39.39
192.96	-69.59	-71.85	3.69	-1.43	-30.00	-39.59
835.10	-69.84	-71.46	4.61	-2.99	-30.00	-39.84
896.21	-52.77	-53.76	4.33	-3.34	-30.00	-22.77
7680.00	-46.54	-48.08	11.42	-9.88	-30.00	-16.54
11520.00	-42.61	-41.62	11.36	-12.35	-30.00	-12.61

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.

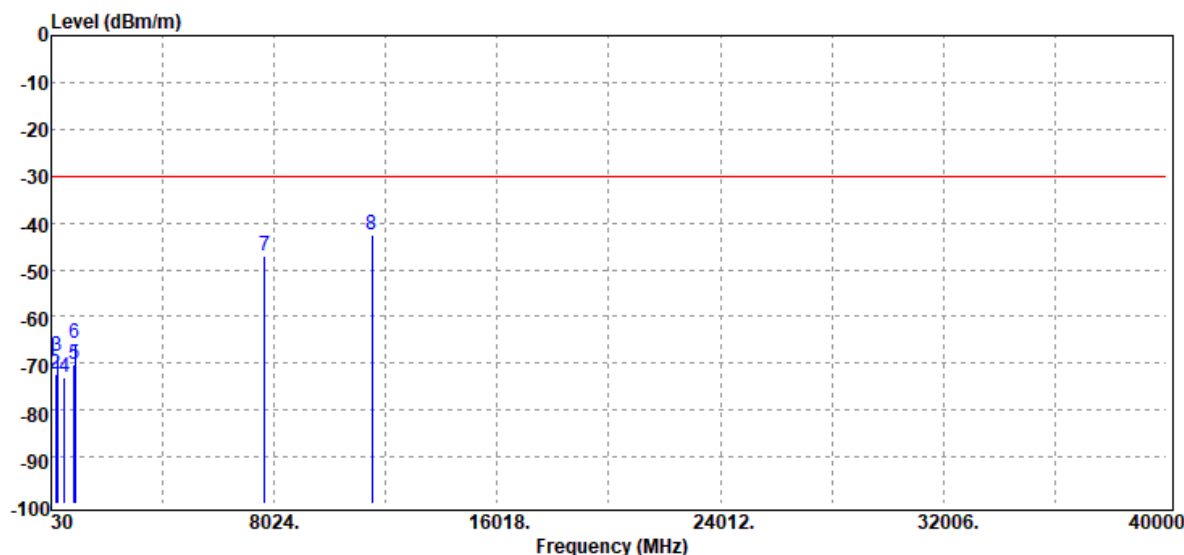
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.



Report Number :ER/2021/20012  
 Operation Mode :n77A  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane  
 Test Frequency :3840 MHz

Test Site :SAC I Chamber  
 Test Date :2021-04-08  
 Temp./Humi. :23.9/61  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
38.73	-69.15	-54.95	-13.53	-0.67	-30.00	-39.15
191.99	-72.15	-74.26	3.54	-1.43	-30.00	-42.15
250.19	-68.49	-71.24	4.34	-1.59	-30.00	-38.49
500.45	-73.02	-74.86	4.25	-2.41	-30.00	-43.02
842.86	-70.25	-72.04	4.70	-2.91	-30.00	-40.25
896.21	-65.62	-66.61	4.33	-3.34	-30.00	-35.62
7680.00	-47.13	-48.67	11.42	-9.88	-30.00	-17.13
11520.00	-42.64	-41.65	11.36	-12.35	-30.00	-12.64

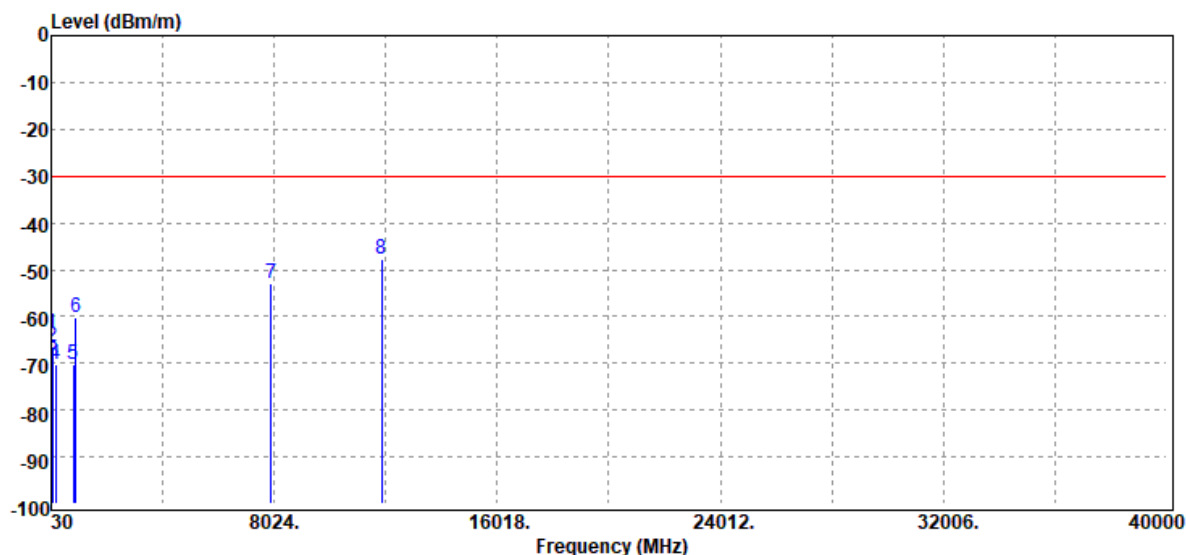
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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.

Report Number :ER/2021/20012  
 Operation Mode :n77A  
 Test Mode :Tx CH High  
 EUT Pol :H Plane  
 Test Frequency :3960 MHz

Test Site :SAC I Chamber  
 Test Date :2021-04-08  
 Temp./Humi. :23.9/61  
 Antenna Pol. :VERTICAL  
 Engineer :Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.63	-49.31	-13.66	-0.66	-30.00	-33.63
65.89	-66.53	-57.94	-7.79	-0.80	-30.00	-36.53
95.96	-69.56	-68.28	-0.28	-1.00	-30.00	-39.56
191.99	-70.30	-72.41	3.54	-1.43	-30.00	-40.30
837.04	-70.10	-71.70	4.63	-3.03	-30.00	-40.10
904.94	-60.20	-61.06	4.21	-3.35	-30.00	-30.20
7920.00	-53.08	-53.54	11.12	-10.66	-30.00	-23.08
11880.00	-47.91	-48.32	12.74	-12.33	-30.00	-17.91

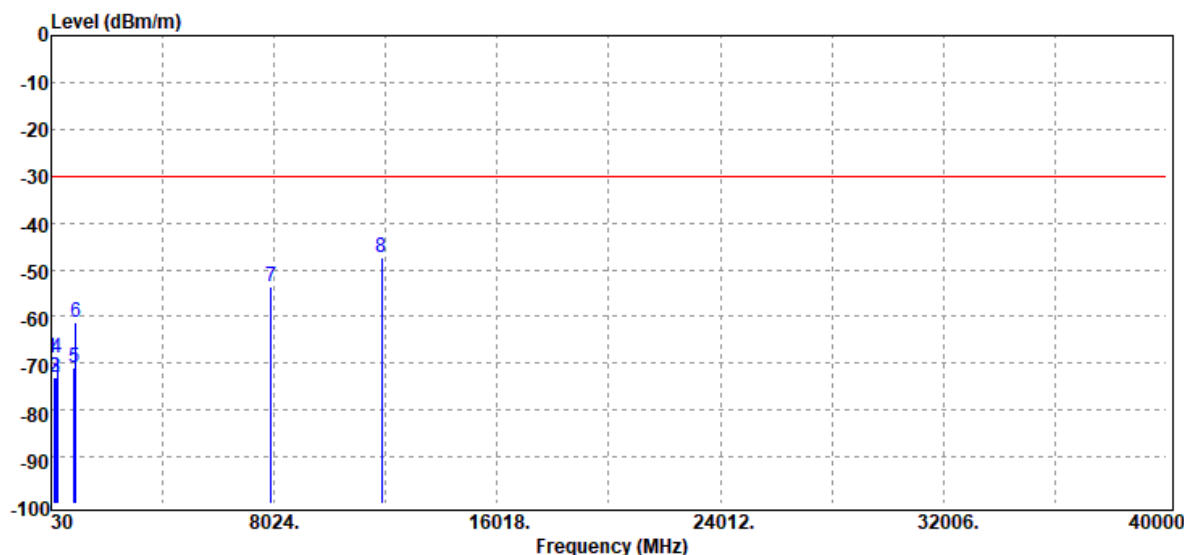
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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.

Report Number :ER/2021/20012  
 Operation Mode :n77A  
 Test Mode :Tx CH High  
 EUT Pol :H Plane  
 Test Frequency :3960 MHz

Test Site :SAC I Chamber  
 Test Date :2021-04-08  
 Temp./Humi. :23.9/61  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-68.87	-54.55	-13.66	-0.66	-30.00	-38.87
158.04	-73.17	-70.69	-1.25	-1.23	-30.00	-43.17
180.35	-73.09	-73.18	1.47	-1.38	-30.00	-43.09
250.19	-68.96	-71.71	4.34	-1.59	-30.00	-38.96
841.89	-70.88	-72.60	4.69	-2.97	-30.00	-40.88
903.00	-61.36	-62.23	4.27	-3.40	-30.00	-31.36
7920.00	-53.51	-53.97	11.12	-10.66	-30.00	-23.51
11880.00	-47.28	-47.69	12.74	-12.33	-30.00	-17.28

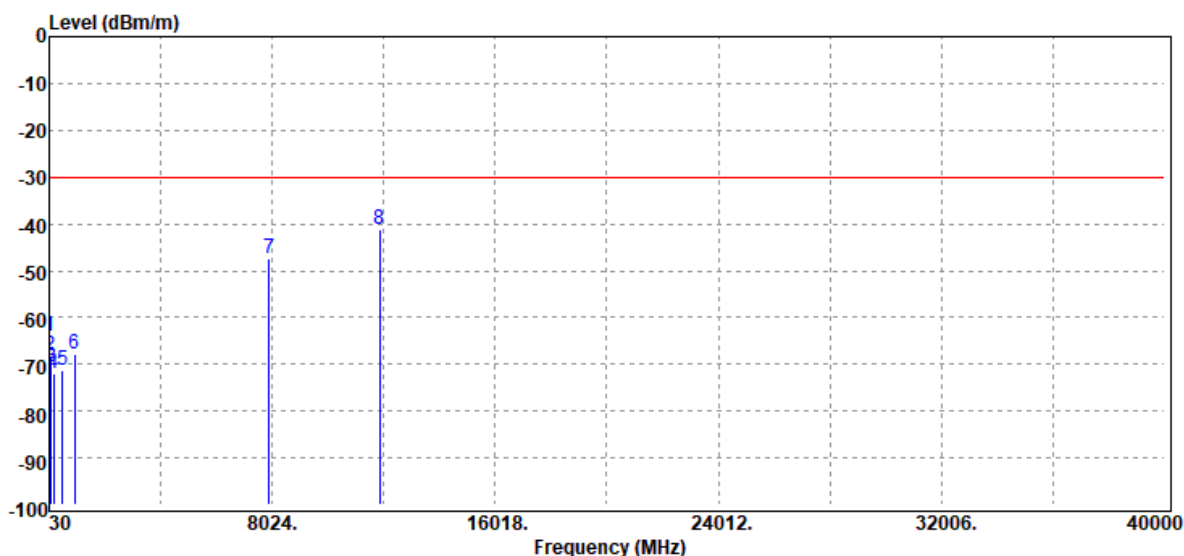
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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.

Report Number :ER/2021/20012  
Operation Mode :7A\_n77A  
Test Mode :Tx CH High  
EUT Pol :H Plane  
Test Frequency :2535\_3960 MHz

Test Site :SAC I Chamber  
Test Date :2021-04-08  
Temp./Humi. :23.9/61  
Antenna Pol. :VERTICAL  
Engineer :Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-63.91	-49.54	-13.72	-0.65	-30.00	-33.91
65.89	-68.10	-59.51	-7.79	-0.80	-30.00	-38.10
95.96	-70.73	-69.45	-0.28	-1.00	-30.00	-40.73
192.96	-71.90	-74.16	3.69	-1.43	-30.00	-41.90
500.45	-71.23	-73.07	4.25	-2.41	-30.00	-41.23
953.44	-67.69	-68.43	3.80	-3.06	-30.00	-37.69
7920.00	-47.45	-47.91	11.12	-10.66	-30.00	-17.45
11880.00	-41.03	-41.44	12.74	-12.33	-30.00	-11.03

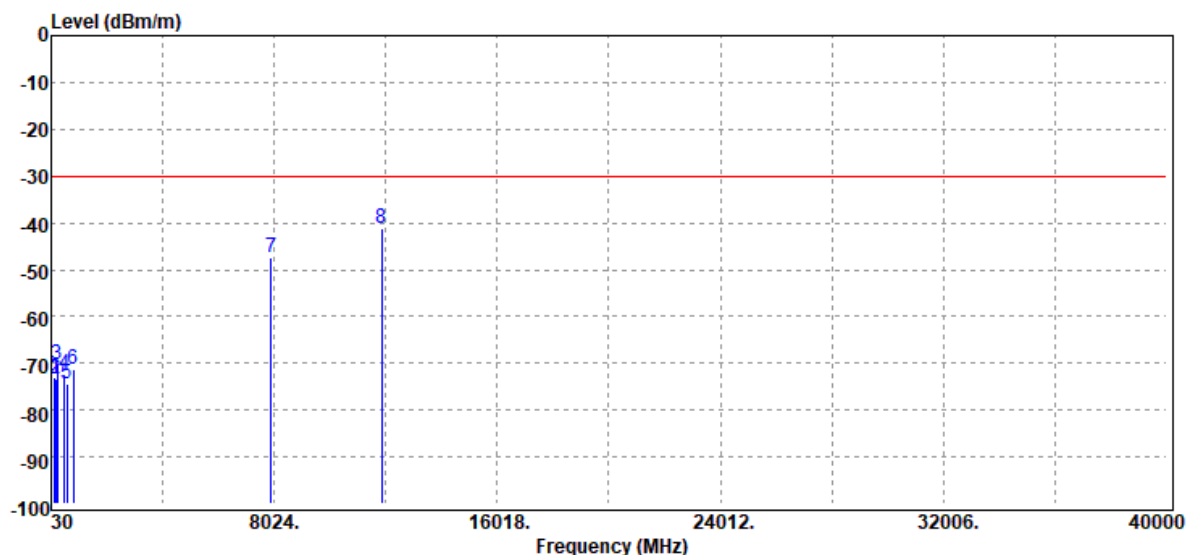
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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.

Report Number :ER/2021/20012  
 Operation Mode :7A\_n77A  
 Test Mode :Tx CH High  
 EUT Pol :H Plane  
 Test Frequency :2535\_3960 MHz

Test Site :SAC I Chamber  
 Test Date :2021-04-08  
 Temp./Humi. :23.9/61  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
158.04	-72.90	-70.42	-1.25	-1.23	-30.00	-42.90
183.26	-73.30	-73.98	2.07	-1.39	-30.00	-43.30
250.19	-70.35	-73.10	4.34	-1.59	-30.00	-40.35
500.45	-72.44	-74.28	4.25	-2.41	-30.00	-42.44
602.30	-74.25	-75.27	3.63	-2.61	-30.00	-44.25
838.01	-71.28	-72.87	4.64	-3.05	-30.00	-41.28
7920.00	-47.56	-48.02	11.12	-10.66	-30.00	-17.56
11880.00	-41.34	-41.75	12.74	-12.33	-30.00	-11.34

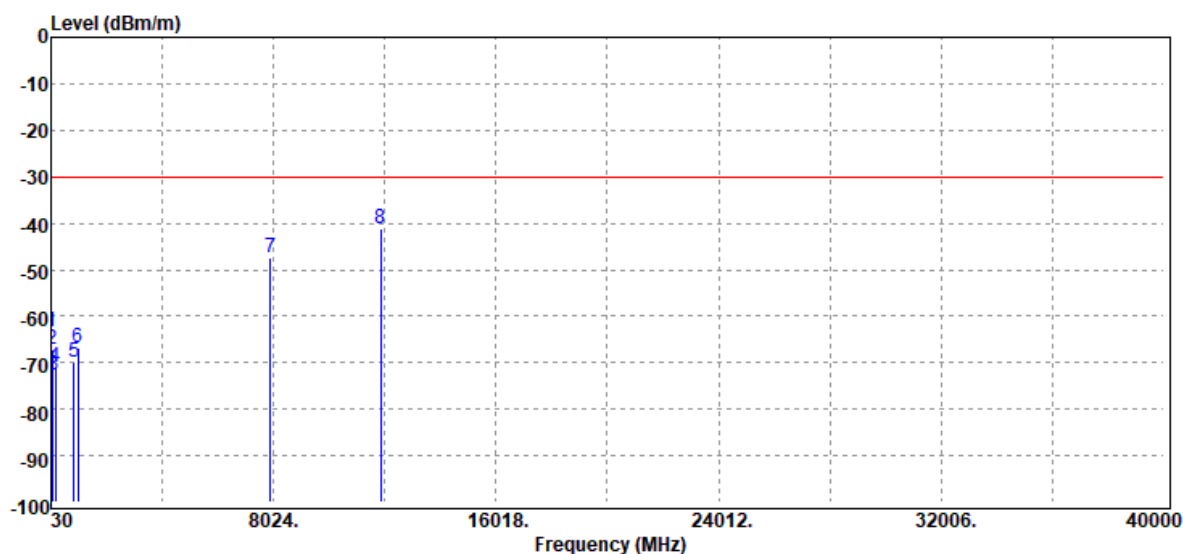
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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.

Report Number :ER/2021/20012  
 Operation Mode :40A\_n77A  
 Test Mode :Tx CH High  
 EUT Pol :H Plane  
 Test Frequency :2350\_3960 MHz

Test Site :SAC I Chamber  
 Test Date :2021-04-08  
 Temp./Humi. :23.9/61  
 Antenna Pol. :VERTICAL  
 Engineer :Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-63.23	-48.91	-13.66	-0.66	-30.00	-33.23
65.89	-66.97	-58.38	-7.79	-0.80	-30.00	-36.97
97.90	-72.50	-70.89	-0.60	-1.01	-30.00	-42.50
191.99	-70.94	-73.05	3.54	-1.43	-30.00	-40.94
847.71	-69.98	-72.07	4.69	-2.60	-30.00	-39.98
987.39	-66.91	-67.70	3.97	-3.18	-30.00	-36.91
7920.00	-47.53	-47.99	11.12	-10.66	-30.00	-17.53
11880.00	-41.18	-41.59	12.74	-12.33	-30.00	-11.18

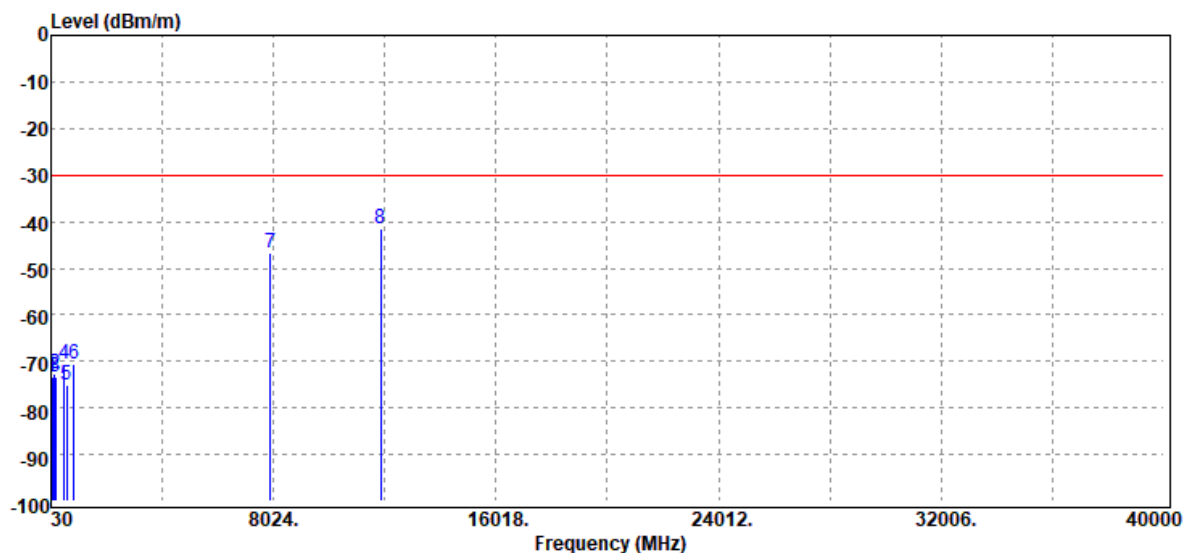
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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.

Report Number :ER/2021/20012  
 Operation Mode :40A\_n77A  
 Test Mode :Tx CH High  
 EUT Pol :H Plane  
 Test Frequency :2350\_3960 MHz

Test Site :SAC I Chamber  
 Test Date :2021-04-08  
 Temp./Humi. :23.9/61  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
73.65	-73.48	-67.20	-5.42	-0.86	-30.00	-43.48
158.04	-72.79	-70.31	-1.25	-1.23	-30.00	-42.79
182.29	-73.30	-73.83	1.92	-1.39	-30.00	-43.30
500.45	-70.58	-72.42	4.25	-2.41	-30.00	-40.58
602.30	-75.24	-76.26	3.63	-2.61	-30.00	-45.24
841.89	-70.58	-72.30	4.69	-2.97	-30.00	-40.58
7920.00	-46.80	-47.26	11.12	-10.66	-30.00	-16.80
11880.00	-41.65	-42.06	12.74	-12.33	-30.00	-11.65

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.

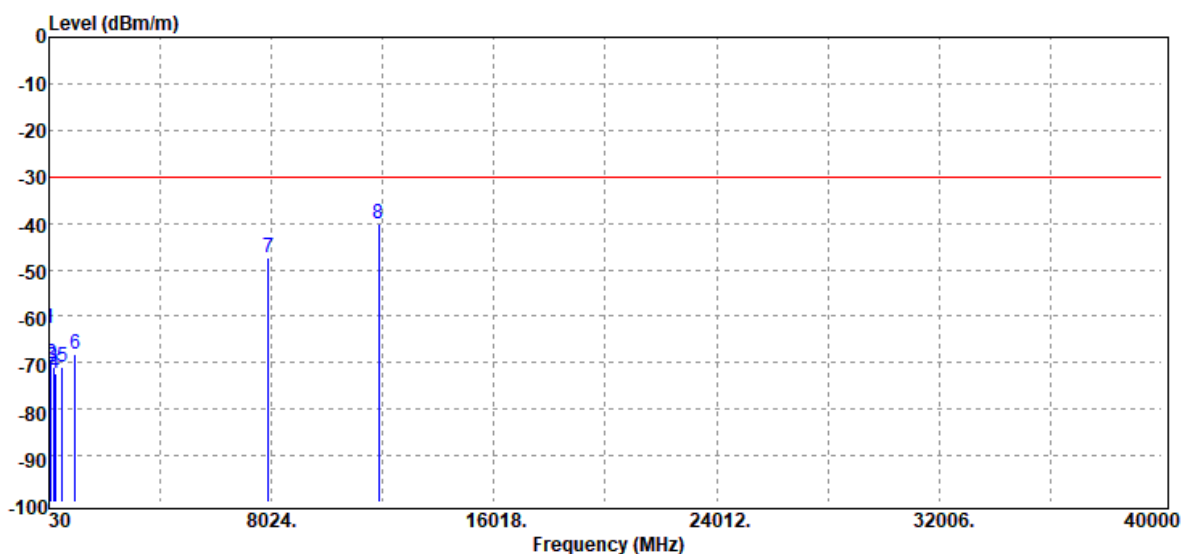
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.



Report Number :ER/2021/20012  
 Operation Mode :41A\_n77A  
 Test Mode :Tx CH High  
 EUT Pol :H Plane  
 Test Frequency :2593\_3960 MHz

Test Site :SAC I Chamber  
 Test Date :2021-04-08  
 Temp./Humi. :23.9/61  
 Antenna Pol. :VERTICAL  
 Engineer :Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-62.78	-48.46	-13.66	-0.66	-30.00	-32.78
95.96	-70.23	-68.95	-0.28	-1.00	-30.00	-40.23
192.96	-71.06	-73.32	3.69	-1.43	-30.00	-41.06
250.19	-72.40	-75.15	4.34	-1.59	-30.00	-42.40
500.45	-70.97	-72.81	4.25	-2.41	-30.00	-40.97
966.05	-68.34	-69.25	3.78	-2.87	-30.00	-38.34
7920.00	-47.34	-47.80	11.12	-10.66	-30.00	-17.34
11880.00	-40.28	-40.69	12.74	-12.33	-30.00	-10.28

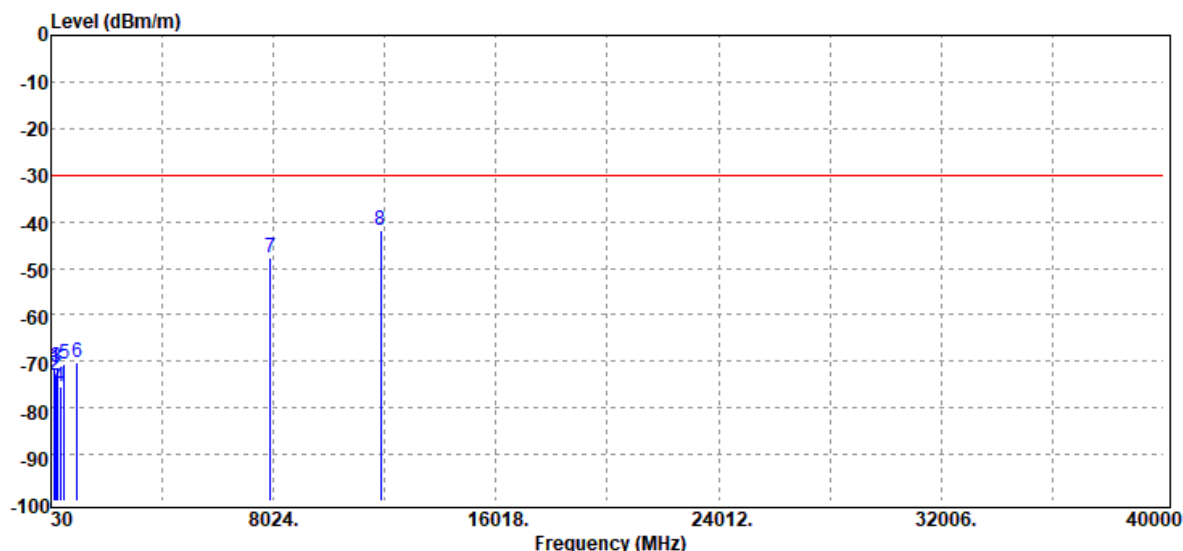
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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.

Report Number :ER/2021/20012  
 Operation Mode :41A\_n77A  
 Test Mode :Tx CH High  
 EUT Pol :H Plane  
 Test Frequency :2593\_3960 MHz

Test Site :SAC I Chamber  
 Test Date :2021-04-08  
 Temp./Humi. :23.9/61  
 Antenna Pol. :HORIZONTAL  
 Engineer :Neo Tsai



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
159.01	-71.50	-68.97	-1.29	-1.24	-30.00	-41.50
183.26	-73.11	-73.79	2.07	-1.39	-30.00	-43.11
250.19	-71.37	-74.12	4.34	-1.59	-30.00	-41.37
374.35	-75.29	-77.65	4.36	-2.00	-30.00	-45.29
500.45	-70.45	-72.29	4.25	-2.41	-30.00	-40.45
977.69	-70.12	-70.95	3.83	-3.00	-30.00	-40.12
7920.00	-47.71	-48.17	11.12	-10.66	-30.00	-17.71
11880.00	-41.92	-42.33	12.74	-12.33	-30.00	-11.92

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。

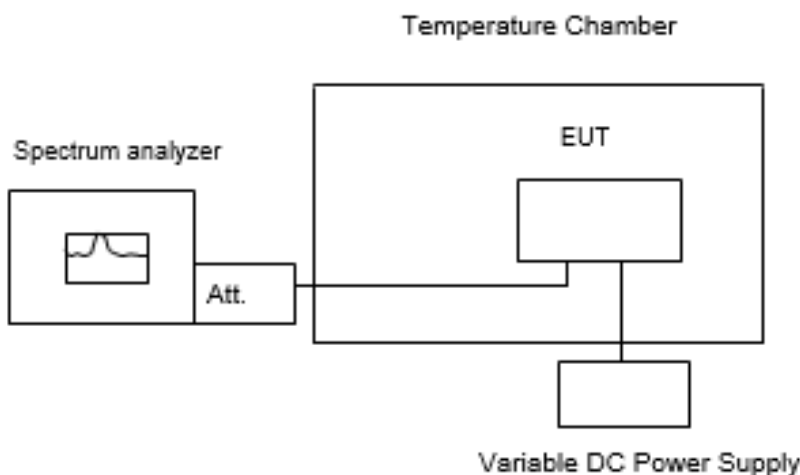
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. 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 FREQUENCY STABILITY MEASUREMENT

### 10.1 Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### 10.2 Test Set-up



**Note:** Measurement setup for testing on Antenna connector

### 10.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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 Equipment Used

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY53400256	11/19/2020	11/18/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/22/2020	12/21/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBDA	RFLT2W1G18G	18112200202	12/16/2020	12/15/2021

## 10.5 Measurement Result

NR Band 77				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	30	kHz	3840	MHz 20M CH 656000
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.257	25	3839.999998	-2	9600
3.87	25	3840.000003	3	9600
3.483	25	3839.999983	-17	9600
3.4 (End Point)	25	3840.000005	5	9600
Freq. ERROR vs. Temp.				
3.87	-30	3839.999994	-6	9600
3.87	-20	3840.000028	28	9600
3.87	-10	3840.000005	5	9600
3.87	0	3839.999985	-15	9600
3.87	10	3839.999978	-22	9600
3.87	20	3840.000017	17	9600
3.87	30	3839.999972	-28	9600
3.87	40	3839.999973	-27	9600
3.87	50	3839.999980	-20	9600

**Note:** The battery is rated 3.87V dc.

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。

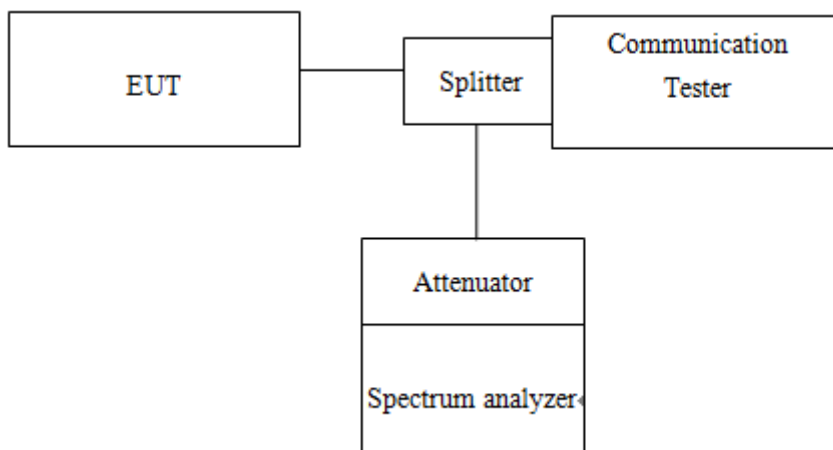
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. 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.

## 11 PEAK TO AVERAGE RATIO

### 11.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

### 11.2 Test SET-UP



### 11.3 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

### 11.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY53400256	11/19/2020	11/18/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/22/2020	12/21/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
DC Power Supply	Agilent	E3640A	MY52410006	12/17/2020	12/16/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBDA	RFLT2W1G1 8G	18112200202	12/16/2020	12/15/2021

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.

## 11.5 Measurement Result

NR BAND 77								NR BAND 77			
DFT-S-OFDM_SCS 30 kHz								DFT-S-OFDM_SCS 30 kHz			
Channel bandwidth: 20MHz				Channel bandwidth: 30MHz				Channel bandwidth: 40MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit			256QAM	Limit
3710.01	647334	7.88	13	3715.02	647668	8.26	13	3720.00	648000	7.91	13
3840.00	656000	7.66	13	3840.00	656000	8.25	13	3840.00	656000	8.16	13
3970.02	664668	8.03	13	3965.01	664334	7.46	13	3960.00	664000	7.48	13

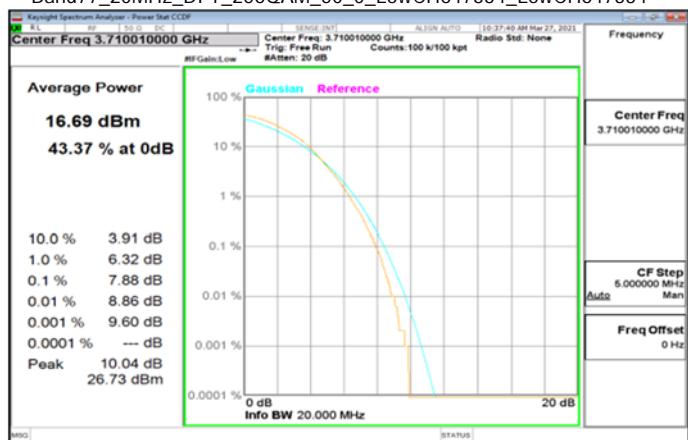
NR BAND 77								NR BAND 77			
DFT-S-OFDM_SCS 30 kHz								DFT-S-OFDM_SCS 30 kHz			
Channel bandwidth: 60MHz				Channel bandwidth: 80MHz				Channel bandwidth: 100MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit			256QAM	Limit
3730.02	648668	9.18	13	3740.0	649334	8.35	13	3750.0	650000	8.50	13
3840.00	656000	9.34	13	3840.0	656000	8.43	13	3840.0	656000	8.49	13
3950.01	663334	8.16	13	3940.0	662668	8.32	13	3930.0	662000	8.54	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.

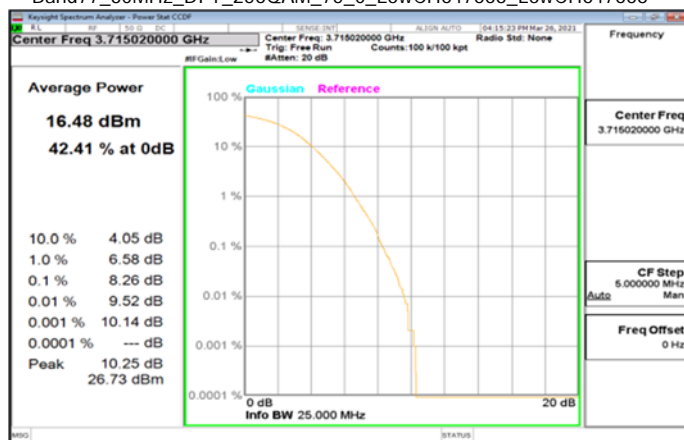
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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.

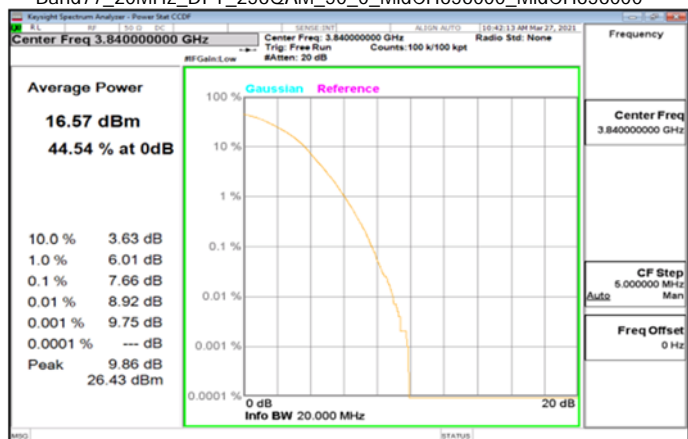
Band77\_20MHz\_DFT\_256QAM\_50\_0\_LowCH647334\_LowCH647334



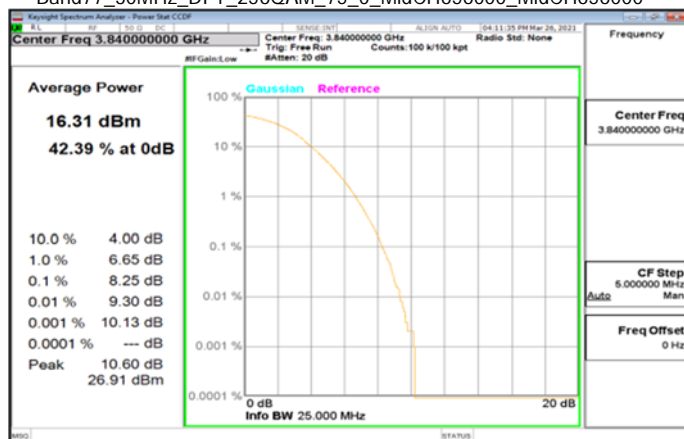
Band77\_30MHz\_DFT\_256QAM\_75\_0\_LowCH647668\_LowCH647668



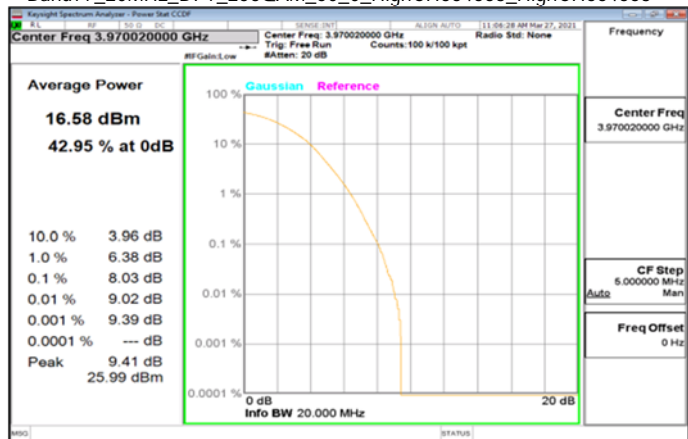
Band77\_20MHz\_DFT\_256QAM\_50\_0\_MidCH656000\_MidCH656000



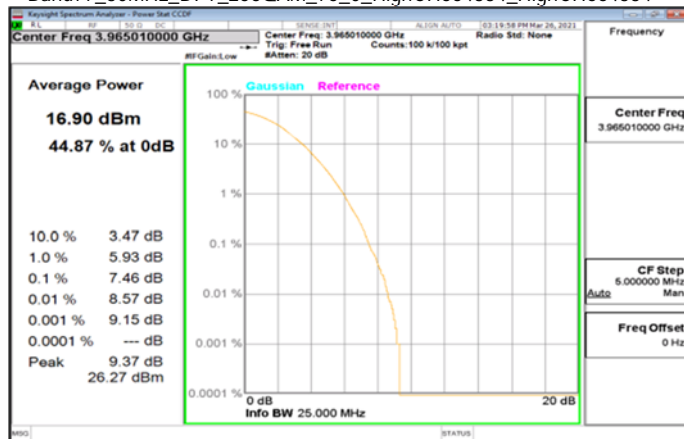
Band77\_30MHz\_DFT\_256QAM\_75\_0\_MidCH656000\_MidCH656000



Band77\_20MHz\_DFT\_256QAM\_50\_0\_HighCH664668\_HighCH664668



Band77\_30MHz\_DFT\_256QAM\_75\_0\_HighCH664334\_HighCH664334



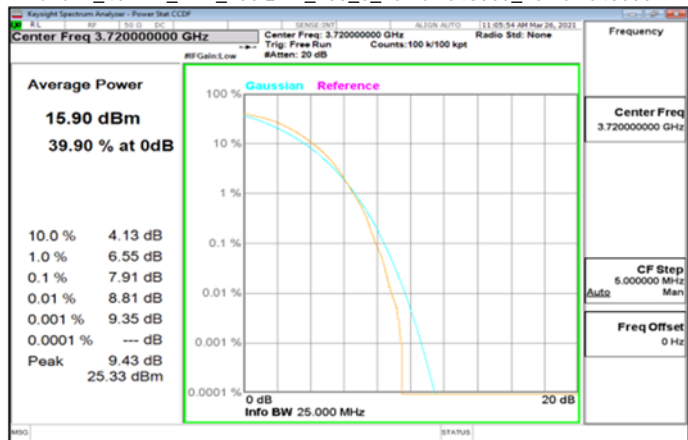
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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。

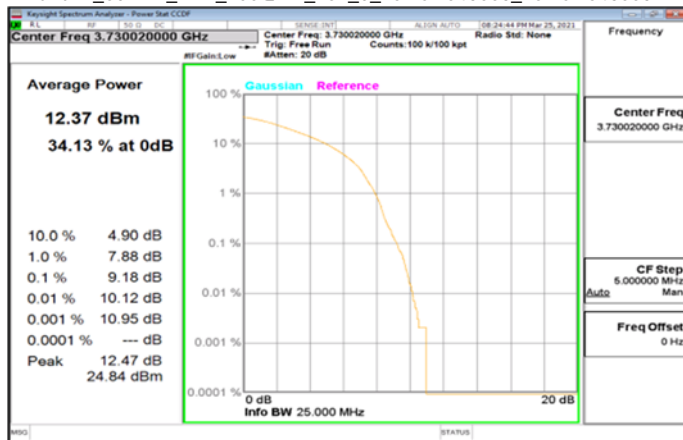
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein 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.



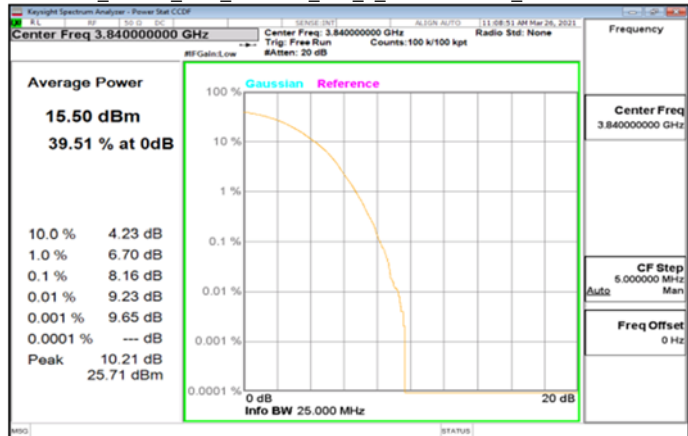
Band77\_40MHz\_DFT\_256QAM\_100\_0\_LowCH648000\_LowCH648000



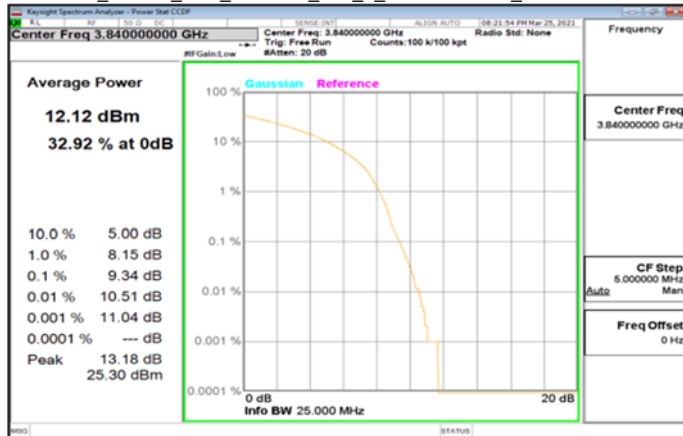
Band77\_60MHz\_DFT\_256QAM\_162\_0\_LowCH648668\_LowCH648668



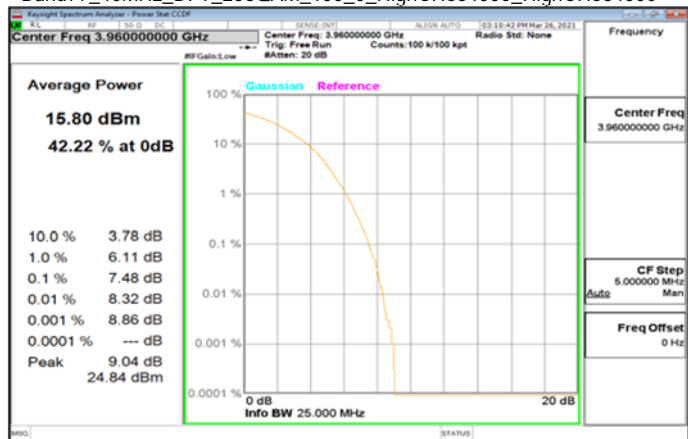
Band77\_40MHz\_DFT\_256QAM\_100\_0\_MidCH656000\_MidCH656000



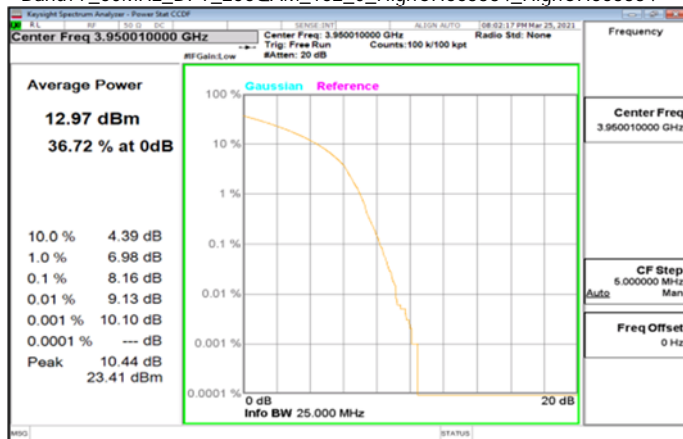
Band77\_60MHz\_DFT\_256QAM\_162\_0\_MidCH656000\_MidCH656000



Band77\_40MHz\_DFT\_256QAM\_100\_0\_HighCH664000\_HighCH664000



Band77\_60MHz\_DFT\_256QAM\_162\_0\_HighCH663334\_HighCH663334

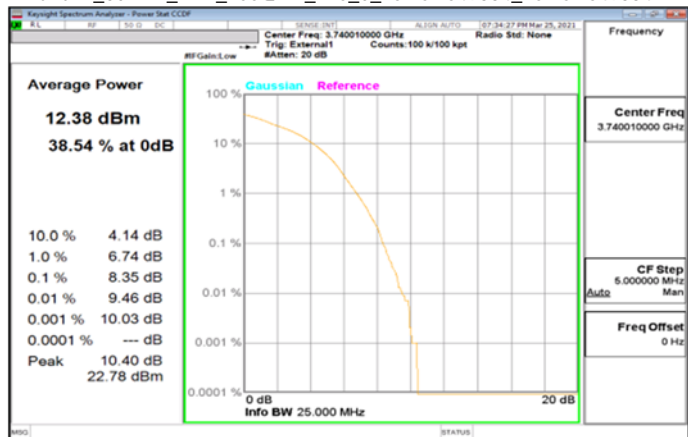


Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

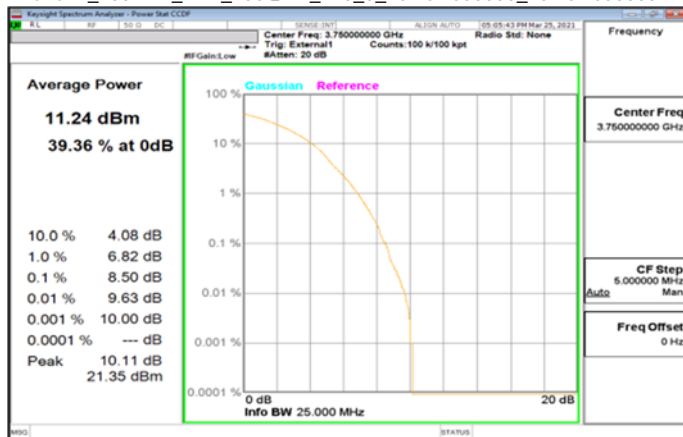
除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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 herein 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.

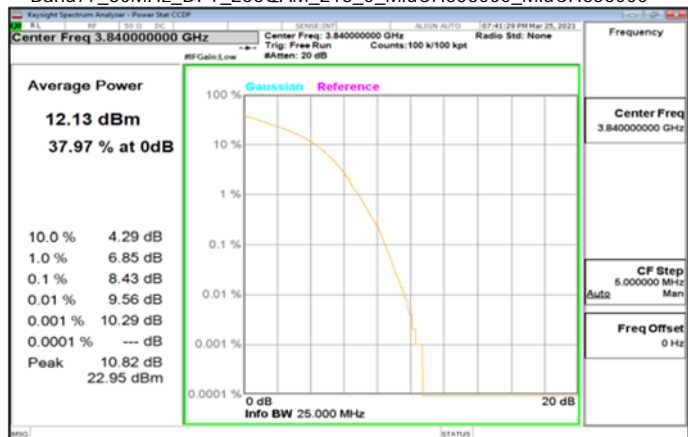
Band77\_80MHz\_DFT\_256QAM\_216\_0\_LowCH649334\_LowCH649334



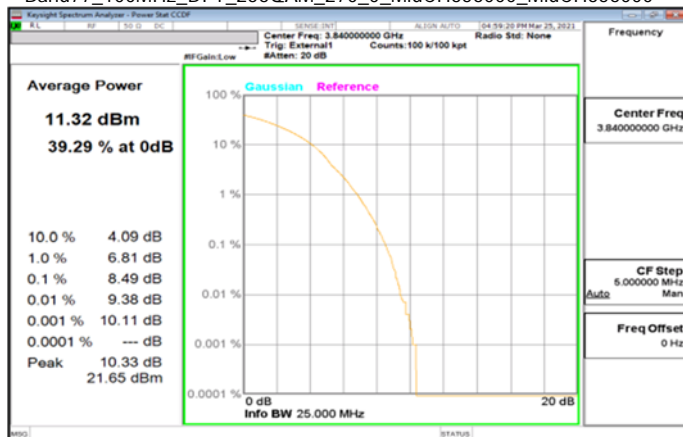
Band77\_100MHz\_DFT\_256QAM\_270\_0\_LowCH650000\_LowCH650000



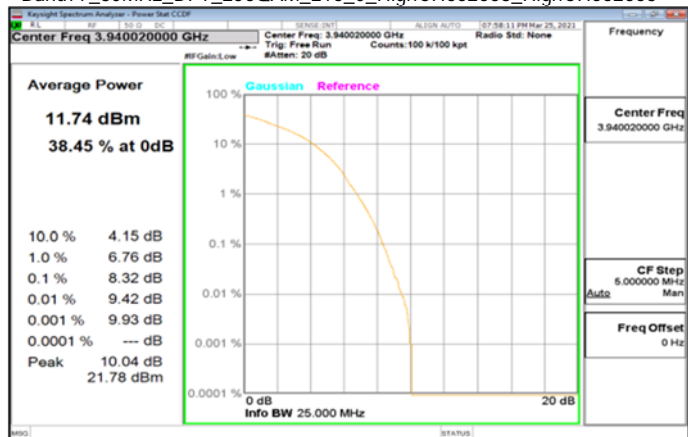
Band77\_80MHz\_DFT\_256QAM\_216\_0\_MidCH656000\_MidCH656000



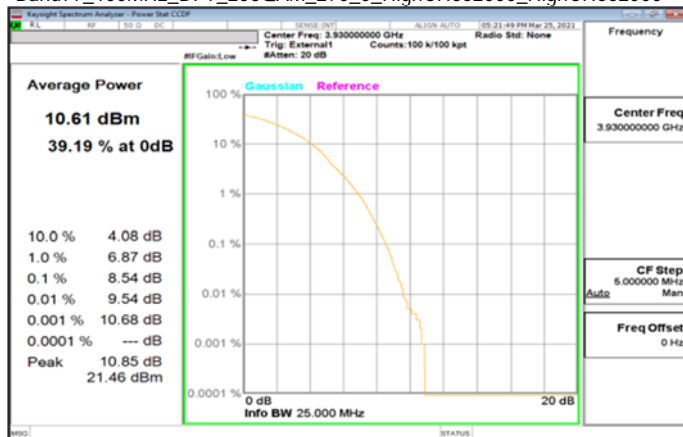
Band77\_100MHz\_DFT\_256QAM\_270\_0\_MidCH656000\_MidCH656000



Band77\_80MHz\_DFT\_256QAM\_216\_0\_HighCH662668\_HighCH662668



Band77\_100MHz\_DFT\_256QAM\_270\_0\_HighCH662000\_HighCH662000



~ End of Report ~

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.