

Report No.: E2/2018/70055 Page 186 of 497

WCDMA B5 LowCH4132-826.4

						Analyzer - Swept SA				
Frequency	9:12 PM Aug 08, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWW DET A NNNNN	Log-Pwr	Avg Ty	Trig: Free Run	MHz PNO: Wide C	50 R PC	req 8		Cer	
Auto Tur	Def Official 13.6 dB Mkr1 824.000 MHz									
	23.34 dBm					Offset 13.6 dB 30.00 dBm		B/div	10 d	
Center Fre 824.000000 MH					_			-	20.0	
Start Fre	-13.00 40m							1	0.00	
823.500000 MH				-+					20 0 30 0	
Stop Fre 824,500000 MP					_			1	40.0 50.0	
824.500000 MP									50.0	
CF Ste 100.000 ki Auto M	824.5000 MHz ms (1001 pts)	Ste weep 1.0		150 kHz	#VBW		47 kH			
AUTO M	UNCTION VALUE	TION WOTH	ICTION F	-23.34 dBm	4.000 MHz		1 f	N	1	
Freq Offs 01									2345	
									6 7 8 9	
		-	-						10	
		STATUS							50	

RL RF 50 D DC Strike... RL RF 50 D DC Strike... enter Freq 849.000000 MHz PNO: Wide ↔ #Atten: 30 dB Avg Type: Log-Frequency Mkr1 849.000 MHz -21.86 dBm Auto Tu Ref Offset 13.6 Ref 30.00 dE Center Fre Start Fre Stop Fr Stop 849.5000 MH 1.000 ms (1001 pts 848.5000 MH CF Ste #VBW 150 kHz Sweep Freq Offs

WCDMA_B5_HighCH4233-846.6

HSDPA B5 LowCH4132-826.4

Keysight Spectrum Analyzer - Swept SA				-0- di -
Center Freq 824.000000 I	MHz PMC Mide C Trig: Free Run	Avg Type: Log-Pwr	1:13:17 PM Aug 08, 2018 TRACE 1 2 3 4 5 6	Frequency
	PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB		DET A NNNNN	Auto Tun
Ref Offset 13.6 dB Ref 30.00 dBm		Mkr1	24.000 MHz -22.74 dBm	MHZ
20.0 10.0				
10.0 20.0	1		-13.00 40m	Start Fre 823.500000 MH
40.0 50.0				Stop Fre 824.500000 MH
tart 823.5000 MHz Res BW 47 kHz	#VBW 150 kHz	Sweep 1.00	o 824.5000 MHz 0 ms (1001 pts)	CF Ste 100.000 kH Auto Ma
2 3 4 5	4.000 MHz -22.74 dBm	INCTION FURCTION WOTH		Freq Offse
6 7 8 9				
11		STATUS		

HSDPA_B5_HighCH4233-846.6

Keysight Spectrum A	so p pc	SENSE:INT	ALIGN AUTO	03:15:57 PM Aug 08, 2018	0.0
	49.000000 MHz	Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Frequency
	IFGain:Low				Auto Tun
	Offset 13.6 dB 30.00 dBm		MK	r1 849.000 MHz -22.27 dBm	
20.0					Center Fre
10.0					849.000000 MH
0.00					
-1D.D		1=		-13.00 dDm	Start Fre
-20.0					848.500000 MH
-30.0					
-50.0					Stop Fre
-60.0					849.500000 MH
Start 848.5000 #Res BW 47 kl		BW 150 kHz	Swaan	Stop 849.5000 MHz .000 ms (1001 pts)	CF Ste 100.000 ki
WRE MODE THE SOL	12 #V		Sweep 1		Auto M
1 N 1 f	849.000 MHz	-22.27 dBm	OWCTION PONCTON WIGHT	POINT I AN INALISE	
2 3 4					Freq Offs
5					
6 7 8					
9 10 11					
11					
*			STATU		L

HSUPA_B5_LowCH4132-826.4

	n Analyzer - Swept SA					-e- 4 🖬
	824.000000 I	MHz PNO: Wide G	Trig: Free Run	Avg Type: Log-Pwr	03:19:04 PM Aug 08, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
10 dB/div R	ef Offset 13.6 dB ef 30.00 dBm	IFGain:Low	#Atten: 30 dB	Mkr	1 824.000 MHz -22.14 dBm	Auto Tun
20.0 10.0						Center Fre 824.000000 MH
-10.0 -20.0 -30.0					-13.00 dDm	Start Fre 823.500000 MH
40.0 50.0 60.0						Stop Fre 824.500000 MH
Start 823.500 #Res BW 47	kHz	#VB	W 150 kHz		top 824.5000 MHz 000 ms (1001 pts)	CF Ste 100.000 kH Auto Ma
1 N 1 1 2 3 4 5 6 7		4.000 MHz	-22.14 dBm		FORCTON WADE 7	Freq Offse 0 H
8						

HSUPA_B5_HighCH4233-846.6

-0- Ø-									nalyzer - Sv			M Ke
Frequency	PM Aug 08, 2018 ACE 1 2 3 4 5 6	TRU	g Type: Log-Pwr		: Free Ru		Hz	0000 M		req 8		
Auto Tun	Professional Stress Annual Str											_
	.52 dBm	-22							30.00		B/div	0 d
Center Fre	-	-				+		-		-		20.0
849.000000 MI										_		10.0
Start Fre	-10.00 dDm				- 1			-				10,0
848.500000 Mi						-	-	-		-		20 0
												30.0
Stop Fre 849.500000 Mi						+		-		-		50,0
040.000000 11						+	-					60.0
CF Ste 100.000 ki	.5000 MHz (1001 pts)				kHz	3W 1	#VE			5000 47 kł		
Auto M	TION WALUE	EUNION CONTRACT	FUNCTION WOTH	FUN	62 dBm		000 MHz	X 849			N	-04
Freq Offs 01												2345
	1										+	6
												89
			-				_					10 11
		s	STATU									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.

t (886-2) 2299-3279

biness onerwise stated the results structure for the form in this test report refer only to the sample(s) tested and such sample(s) are retained to 19 of days offly. 除非另有说明,此報告結果僅對測試之樣品負情。同時此樣品僅保留的人。本報告未變本公司書面對可,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 <u>www.sgs.com/terms and conditions.htm</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms_e-document.htm</u>. 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.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

f (886-2) 2298-0488



Band2 1 4MHz QPSK 1 0 LowCH18607-1850.7

							m Analyzar - Sve			
Frequency	AM Aug 11, 2018	TRA	e: Log-Pwr	Avg	Trig: Free Ru	00000 GHz	1.85000		RL nter	
Auto Tur	000 GHz	1.850 0	Mkr1		#Atten: 30 dB		ef Offset 13			
Center Fre 1.850000000 GH		-23.		~~~~			ef 30.00 d	iv R	0	20.0 10.0
Start Fre 1.849000000 GH	-13.00 404		~~~~~						0	0.00 10.0 20.0 30.0
Stop Fre 1.851000000 GH								m	0	40.0 50.0 60.0
CF Ste 200.000 ki Auto M	1000 GHz (1001 pts)	5.200 ms (Sweep 6	FUNCTION	W 62 kHz	×		W 20	es B	Re
Freq Offs 0 F					-23.16 dBm	1.850 000 GHz	r	1 :	N	1234567
										8 9 10 11
		IS	STATUS							53

-0- 4-						Analyzar - Swept SA			
Frequency	09:53:29 AM Aug 13, 2018 TRACE 1 2 3 4 5 6	ALIGN AUTO	Avg	SENSE:1		1.91000000	Freg		l R Cen
Auto Tur	DET A NNNNN		1	#Atten: 30 dB	PNO: Wide ++ IFGain:Low				_
Autoria	1.910 000 GHz -18.51 dBm	Mkr1			n	of Offset 13.9 dB	Ret	B/div	0 d
Center Fr									20.0
1.910000000 G					1				0.0
Start Fr	-13 00 4011	_		1					0.0
1.909000000 G		-					200	-	0.0
			Alance Sameral						0.0
Stop Fr 1.911000000 G	and and	-							0,0
1.0110000000		-					-		0.0
CF St 200.000 k Auto M	top 1.911000 GHz 200 ms (1001 pts)	Sweep 6.		62 kHz	#VBW		V 20 k	s Bl	Re
CIMINS II	FUNCTION WALVE	UNCTONIMOTH	FUNCTION	-18.61 dBm	.910 000 GHz		1 f		1
Freq Offs 0									2 3 4 5
							_		6 7 8
							-	-	9
								_	1
		STATUS							ß

Band2_1_4MHz_QPSK_1_5_HighCH19193-1909.3

Band2 1 4MHz QPSK 6 0 LowCH18607-1850.7

RL	NF 50 D	SA C	SENSE:INT	ALIGN AUTO	09:46:02 AM Aug 11, 2018	
enter F	req 1.850000	PNO: Wide	#Atten: 30 dB	Avg Type: Log-Pwr	THACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
0 dB/div	Ref Offset 13.9 Ref 30.00 dB	dB		Mkr1	1.850 000 GHz -25.96 dBm	Auto Tuni
20.0 10.0					دار ب ورووسید مرکب میک می در میکوند.	Center Fre 1.850000000 GH
20.0			- it		-13 00 40 4	Start Fre 1.849000000 GH
40.0 50.0						Stop Free 1.851000000 GH
tart 1.84 Res BW		#VBV	V 62 kHz		top 1.851000 GHz 200 ms (1001 pts)	CF Ste 200.000 kH Auto Ma
1 N 1 2 3 4 5 6 7 7 8 9 10		1.850 000 GHz	-25.96 dBm		6	Freq Offse 0 H
11	11					
5G				STATUS		

Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3

	AM Aug 11, 2018	09-33-57 4	ALIGN AUTO		SENSE 1			nalyzar - Si 50 i	117		RL
Frequency	CE123456	TRACE 1 2 3 4 5 6			Trig: Free Ru	GHz	000000		eq 1	er Fre	ent
Auto Tun	DET A NNNNN	Di			#Atten: 30 dB	PNO: Wide = IFGain!Low					
	Ref Offset 13.9 dB Mkr1 1.910 000 GHz 10 dB/div Ref 30.00 dBm -22.11 dBm										
Center Fr											3.0
1.910000000 G			-			_	_		_		0.0
						with	~~~~~			~	-
Start Fr	-13:00:40m		-		1=		-		+		1.0
1.909000000 G					time				+		2,0
	-	and and					-		+		3.0
Stop Free											3.0
1.911000000 G											2.0
											L
CF St 200.000 k			Sweep 6.		62 kHz	#VB				1.909 BW 2	
Auto M	CIN WALLEE	FUNCTO	UNCTON WOTH	FUNCTIO	Ŷ		×				
Freg Offs					-22.11 dBm	0 000 GHz	1.910		T	1 1	2
o line of the other										-	3
	1										5
										-	7 B
											9
								-		-	1
			STATUS								3

Band2_3MHz_QPSK_1_0_LowCH18615-1851.5

							nalyzar - Svee			
Frequency	09:10:18 AM Aug 13, 2018 TRACE 1 2 3 4 5 6	Type: Log-Pwr	A	SENSE:	łz	0000 GH	.85000	eq 1.		en
Auto Tur	DET A NNNNN			#Atten: 30 dB	NO: Wide	PN				_
Auto Tu	1.850 000 GHz -16.05 dBm	Mkr1					Offset 13. 30.00 c		B/div	D dl
Center Fre 1.850000000 GH			1							0.0
Start Fre 1.849000000 GH		Marco and		1						0.0
Stop Fre 1.851000000 GH			_				~	~	~	0
CF Ste 200.000 ki Auto Mi	top 1.851000 GHz 667 ms (1001 pts)			/ 120 kHz	#VB			9000 39 kH		le
	FORCHONINGLOE	FUNCTIONWOTH	FUNCTION	-16.05 dBm	0 GHz	1.850 000		1	N	1
Freq Offs 01									-	4
									+	6789
					-			+		0
		STATUS							-	3

Band2_3MHz_QPSK_1_14_HighCH19185-1908.5

						It SD D DC		御 王 ×	
Auto Tune	09:38:23 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWWW	ALIGN AUTO	Ave	Trig: Free Run	O GHz PNO: Wide	req 1.910000000			
	Proc. Wide The product Control of the product Contro								
Center Fre 1.91000000 GR				7	F		1.0	20.0	
Start Fre 1.909000000 GP	-13:03 4211		~~~~	1		www	0	-10.0	
Stop Fre	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~						40.0	
CF Ste 200.000 ki Auto Ma	top 1.911000 GHz 667 ms (1001 pts)	Sweep 1.		V 120 kHz	#VE		les BW	Re	
	FUZICION WALLE	UNCTION WOTH	FUNCTION	-13.76 dBm	10 000 GHz		N 1	1 2	
Freq Offs 01							5	34567	
								8 9 10 11	
		STATUS		"				*	

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488



Band2 3MHz QPSK 15 0 LowCH18615-1851.5

0.0						selyzer - Swept SA	ectrum Ar		Ke Ke
Frequency	09:29:22 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N	Type: Log-Pwr		Trig: Free Ru	GHz	850000000			
Auto Tur	1.850 000 GHz -24.43 dBm	Mkr1		#Atten: 30 dB	IFGain:Low	Offset 13.9 dB 30.00 dBm		B/div	lo di
Center Fr 1.850000000 GR									og 20.0 10.0
Start Fre 1.849000000 Gi	-13 00 dDm		/	12					0.00 10.0 20.0 30.0
Stop Fr 1,851000000 Gi									0.0
CF Ste 200.000 ki Auto M	top 1.851000 GHz 667 ms (1001 pts)	S Sweep 1.	FUNCTIO	120 kHz		łz ×	9000 39 ki	s BW	Re
Freq Offs 01				-24.43 dBm	000 GHz	1.850	1 1	N	1234567
									7 8 9 0
		STATUS							50

Keysight Spectrum Analyzer					
enter Freq 1.910	0000000 GHz	SENSE:INT	Avg Type: Log-Pwr	09:38:52 AM Aug 13, 2018 TRACE 1 2 3 4 5 6	Frequency
	PNO: Wide **	#Atten: 30 dB		DET A NNNNN	
Ref Offset 0 dB/div Ref 30.0			Mkr1	1.910 000 GHz -21.26 dBm	Auto Tu
20.0					Center Fr
0.00		~			1.3100000000
20.0		"		-13.00 dDn	Start Fr 1.909000000 G
0.0					
50,0					Stop Fr 1.911000000 G
tart 1.909000 GHz Res BW 39 kHz	#VB			Stop 1.911000 GHz .667 ms (1001 pts)	CF St 200.000 F Auto M
1 N 1 f 2 3 4 5	1.910 000 GHz	-21.26 dBm			Freq Offs 0
6 7 8					
9 10 11					
0			STATU	1	

Band2_3MHz_QPSK_15_0_HighCH19185-1908.5

Band2 5MHz QPSK 1 0 LowCH18625-1852.5

Keysight Spectrum Analyzer - Swept SA RL IIF SD D DC	SETGE-INT	ALIGN AUTO 02	10:03 PM Aug 10, 2018	-0- 4-
enter Freq 1.85000000		Avg Type: Log-Pwr	THACE 1 2 3 4 5 6 TYPE A WANNY DET A NNNNN	Frequency
Ref Offset 13.9 dB 0 dB/div Ref 30.00 dBm	- Gentern	Mkr1 1.8	50 000 GHz -20.86 dBm	Auto Tun
20.0 10.0			1.8	Center Fre 50000000 GH
20.0			-1300 450	Start Fre 49000000 GH
40, D 50, D 60, D			1.8	Stop Fre 51000000 GH
start 1.849000 GHz Res BW 51 kHz	#VBW 150 kHz	Sweep 1.000	1.851000 GHz ms (1001 pts)	CF Ste 200.000 kH Ma
N 1 f 1.85* 2 - <td>0 000 GHz -20.86 dBm</td> <td></td> <td></td> <td>Freq Offse 0 H</td>	0 000 GHz -20.86 dBm			Freq Offse 0 H
10				

Band2 5MHz QPSK 1 24 HighCH19175-1907.5

R RL	ictrum Analyzar - Swept SA						
	IIF 50 D DO		SENSE:17	Avg Type: L	IGN AUTO	08:53:46 PM Aug 10, 2018 TRACE 1 2 3 4 5	Frequency
enter Fi	req 1.9100000	PNO: Wide * IFGain!Low	#Atten: 30 dB	n	coB m	DET A NNNN	Ň
0 dB/div	Ref Offset 13.9 d Ref 30.00 dBr				Mkr1 1	.910 000 GHz -20.16 dBm	
20.0 10.0							Center Fro 1.910000000 G
10.00	-		- et	~		-13 00 dDa	Start Fr 1.909000000 G
30.0 40.0 50.0						~~~~	Stop Fr 1.911000000 G
Res BW		#VB	W 150 kHz		weep 1.0	op 1.911000 GHz 00 ms (1001 pts)	CF St 200.000 k Auto M
		.910 000 GHz	-20.16 dBm	FUNCTION FUNCT	ION WOTH	FUNCTION VALUE	Links
2 3 4 5			-20.10 4011				Freq Offs 0
6 7 8 9 10							
11							
sa					STATUS		

Band2_5MHz_QPSK_25_0_LowCH18625-1852.5

							Analyzer - S			
Frequency	03:10:55 PM Aug 10, 2018 TRACE 1 2 3 4 5 6	Type: Log-Pwr	A	Trig: Free Ru	SHz	00000 G	1.8500			en Cen
A	DET A NNNN N			#Atten: 30 dB	PNO: Wide IFGain:Low	1				
0 GHz Center Freq 1.85000000 GHz Start Freq 1.84000000 GHz Start Freq 1.84000000 GHz Start Freq 1.84000000 GHz Start Freq 0 GHz CF Step 1.950000 GHz 200.00 Hz	1.850 000 GHz -26.57 dBm	Mkr1					of Offset 1 of 30.00		B/div	10 d
					_			_		20.0
1.850000000 GH			-					-		10.0
Charle Free	-13 03 421								1	10.00
		_	m	↓ ¹		-		_		20 0
								-		30 0 40.0
										40.0 50.0
1.851000000 GH					-	-				60.0
CF Ste 200.000 kH	top 1.851000 GHz 000 ms (1001 pts)			150 kHz	#VBW	_	0 GHz kHz	4900		
Auto Ma	EUNICITION WALKE	EURCHONWOOR	FUNCTION	Ý		X		THE SE	MODE	196
Eren Offer				-26.67 dBm	000 GHz	1.850 0	-	1 1	N	2
0 H					_		-	-	_	3 4 5
							-	-	-	6
							-	-	_	8
										10 11
		STATUS	_						-	<

Band2_5MHz_QPSK_25_0_HighCH19175-1907.5

								SD D DC	pectrum An		Ke R
Frequency	PM Aug 10, 2018 HCE 1 2 3 4 5 6 TPE A WWWWW DET A NNNNN	TRAC	pe: Log-Pwr	Ave	Free Rur	Triat	GHz PNO: Wide	1.91000000			
Auto Tun	000 GHz	1.910 0	Mkr1		n: 30 dB		IFGain/Low	Offset 13.9 dB			
	.26 dBm	-23.	-		_	_		30.00 dBm	Ref	B/div	10 d
Center Fre 1.910000000 GH		-		_		-	-				20.0 10.0
Start Fre	-10.00 dDm				1-	V					0.00 -10,0
1.909000000 GH					-	2000					-20.0
Stop Fre			-		_	-	_				40.0
1.911000000 GH											-60.0
CF Ste 200.000 kH Auto Ma	1000 GHz (1001 pts)	.000 ms (Sweep 1		Hz	3W 150 k	#VE	Hz	09000 / 51 kH	s BW	#Re
CIRCLE 111	ION WALVE	FUNCT	UNCTION WOTH	FUNCTION	6 dBm	-23.26	0 000 GHz		1 1	N	MRR
Freq Offse											2345
	=									+	6 7 8 9
											10 11
		s	STATUS								450

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司



Band2 10MHz QPSK 1 0 LowCH18650-1855

	ectrum Analyzer - 3					
Center F		000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	02:58:32 PM Aug 10, 2018 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset Ref 30.00		#Atten: 30 dB	Mkr1	1.850 000 GHz -15.59 dBm	Auto Tune
20.0 10.0						Center Free 1.850000000 GH
-10.0			and the second	and the second sec	1000 000	Start Free 1.849000000 GH
40.0		and the second sec				Stop Free 1.851000000 GH
Res BW	9000 GHz 100 kHz	×		Sweep 1	Stop 1.851000 GHz .000 ms (1001 pts)	CF Ste 200.000 kH Auto Ma
1 N 2 3 4 5 6 7	1 1	1.850 000 GHz	-15.59 dBm			Freq Offse 0 H
7 8 9 10 11						
850				STATU	5	

Keynight Spectrum Ana									di 🕰
RL III	50 D DC	PND: Wide =	Trig: Free I		Avg Type	RMS	TRAC	MAug 10, 2018 2012 3 4 5 6 20 A WWWWW ET A N N N N N	Frequency
0 dB/div Ref 3	ffset 13.9 dB 30.00 dBm	IFGein/Low	#Atten: 30				1.910 0	00 GHz 35 dBm	Auto Tun
00 20.0 10.0									Center Fre 1.910000000 GH
20.0		w.		123	hours	Man		-13.00 dDm	Start Fre 1.909000000 GH
0.0						- Visi	mm	mm	Stop Fre 1.911000000 GH
tart 1.909000 0 Res BW 100 kH		#VB	W 300 kHz*	FLIN	CTION I FUR	Sweep 1	.000 ms (1000 GHz 1001 pts)	CF Ste 200.000 ki Auto M
1 N 1 f 2 N 1 f 3 N 1 f 4 5 6	1.910	000 GHz 030 GHz 060 GHz	-14.335 dBr -14.183 dBr -13.956 dBr	n n					Freq Offs 01
7 8 9 10									
sa						STATU	s		

Band2_10MHz_QPSK_1_49_HighCH19150-1905

Band2_10MHz_QPSK_50_0_LowCH18650-1855

RL IF 50 D DC	SENSE DIT	ALIGN AUTO 02:5	7:27 PM Aug 10, 2018	
enter Freq 1.85000000	O GHz PNO: Wide Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
Ref Offset 13.9 dB 0 dB/div Ref 30.00 dBm	IFGainLow #Atten: 30 dB		0 000 GHz 25.29 dBm	Auto Tun
og 20.0 10.0				Center Fre
20.0	1 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		-13 00 dDn	Start Fre 1.849000000 GH
40,0				Stop Free 1.851000000 GH
tart 1.849000 GHz Res BW 100 kHz	#VBW 300 kHz	Sweep 1.000	.851000 GHz ms (1001 pts)	CF Ste 200.000 kH to Ma
	50 000 GHz -25.29 dBm			Freq Offse 0 H
8				

Band2_10MHz_QPSK_50_0_HighCH19150-1905

Frequency	03:06:41 PM Aug 10, 2018	ALIGN AUTO		507650:17			IU 50	_		R
requerrey	TRACE 1 2 3 4 5 6 TYPE A WINNIN DET A NNNNN	e: Log-Pwr	Ave	Trig: Free Run	HZ NO: Wide	00000 G	q 1.910(Fre	ter	en
Auto Tu				#Atten: 30 dB	Gain!Low	iF				
Auto Tu	1.910 000 GHz -24.32 dBm	Mkr1					Ref Offset Ref 30.00		B/div	0 dl
Center Fr										20.0
1.910000000 G									⊢	10.0
									-	0.00
Start Fr	-13.00-031	-	_		-				⊨	10.0
1.909000000 G			A	min	m		-		⊢	20,0
					-	-	-			30.0
Stop Free		-			-					ŧ0.0
1.911000000 G										50.0
CF Ste 200.000 k	top 1.911000 GHz .000 ms (1001 pts)	Sweep 1.		300 kHz	#VE		000 GHz			
Auto M	FUNCTION WALUE	NOT ON MODE	FUNCTION	Ŷ		×		TRO		
Freq Offs				-24.32 dBm	DO GHZ	1.910 00	1	1	N	2
riequis					_					34
							_		_	5
							_		_	78
										9 10
	· ·				-		-		_	11
		STATUS								50

Band2_15MHz_QPSK_1_0_LowCH18675-1857.5

	08 PM Aug 10, 2018	02:44:081	ALTON AUTO		NSE:3NT	50			malyzer - Sie 50 D	II.	pargine :
Frequency	TYPE A WWWW	THA		Avg Typ Avg/Hold		Trig: Free	PNO: Wide -				
Auto Tun					0 dB	#Atten: 3	IFGain!Low	i			
Huto Tun	0000 GHz		Mkr1						Offset 13 30.00		B/div
Center Fre		1				-	-				-
1.850000000 GH			/				-				
Start Fre	-13 00 401		MARA	-	1						
1.849000000 GH					Developing	www.www.www.w	monorala	- angogenesering	white	ALLAN	100
				-		-					111
Stop Fre											
1.851000000 GH	_					-	-				
CF Ste	851000 GHz	Stop 1.85	5			_			GHz	4900	t 1.8
200.000 kH Auto Ma	s (1001 pts)					W 620 kHz	#VB			V 200	
	ICTODA WALUE	FUNCT	CTION WOTH	CTION FU	Bm	-16,452 dE	000 GHz				N
Freq Offse					Bm Bm	-13.222 di -13.790 di	958 GHz 924 GHz	1.849 9		1	NN
0 H					-		_			-	-
					-						-
					-					-	
				-	-	**	-				_
		s	STATUS								

Band2_15MHz_QPSK_1_74_HighCH19125-1902.5

R RL	rsam Analyzar - Sv									
RL	10° 50 1				Bun	Avg Type Avg Hold	RMS	TRA	CE 1 2 3 4 5 6	Frequency
0 dB/div	Ref Offset 1 Ref 30.00	1F 3.9 dB	NO:Wide ↔ Gain/Low	#Atten: 30				1.910	000 GHz	Auto Tur
og 80.0	-									Center Fre
0.0		Jon Marine	manging	- manual and	184 Www.w	norm	an a	manutinge	na active	Start Fre 1.909000000 GH
0.0 0.0 0.0										Stop Fre 1.911000000 GH
tart 1.909 Res BW 2	00 kHz		#VB	V 620 kHz*	_		Sweep 1	.000 ms	1000 GHz (1001 pts)	CF Ste 200.000 ki Auto M
22 000 000 1 N 2 N 3 N 4 N 5 6 7	1 1 1 1	1.910 00 1.910 01 1.910 02 1.910 02	4 GHz	-14.378 dB -13.316 dB -13.248 dB -13.536 dB	m m m	NCTION FU	DECEMBER	FUNCT	604 WALUE	Freq Offs
8 9 10										

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488



Band2 15MHz QPSK 75 0 LowCH18675-1857.5

							trum Analyzer - Swep		
Frequency	PM Aug 10, 2018	TRJ	ALIGN AUTO	Avg	Trig: Free Ru		eq 1.850000		Cer
Auto Tun	000 GHz	1.850	Mkr1		#Atten: 30 dB		Ref Offset 13.9 Ref 30.00 di	1B/div	10 0
Center Fre 1.850000000 GH									20.0 10.0
Start Fre 1.849000000 GH	-13.00 dDm	_	Variation						-10,0
Stop Fre 1.851000000 GF									40,0 60,0
CF Ste 200.000 kF Auto Ma	51000 GHz (1001 pts)	.000 ms	Sweep 1	FUNCTION	620 kHz	#VB	9000 GHz 200 kHz		Re
Freq Offse 0 F					-25.18 dBm	1.850 000 GHz	1	N 1	1234567
									8 9 10 11
		s	STATUS						85G

enter Freq 1.910000		SENSE:INT	ALIGN AUTO		10,2018 2 3 4 5 6 NNNNN
		Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.9		#Atten: 30 dB	Mkr1	GHz dBm Center Freq	
0 dB/div Ref 30.00 dE	3m			-26.61 dBm	
10.0					1.910000000 Gi
20.0	monter	······································		-13.00 401	Start Fr 1.909000000 G
0.0					Stop Fr 1.911000000 G
tart 1.909000 GHz Res BW 200 kHz	#VB	W 620 kHz		Stop 1.911000 GHz .000 ms (1001 pts)	CF St 200.000 k Auto M
N 1 T 2 3 4 5	1.910 000 GHz	-26.61 dBm			Freq Offs 0
6 7 8 9 0					
11	-		ETATU		

Band2_15MHz_QPSK_75_0_HighCH19125-1902.5

Band2_20MHz_QPSK_1_0_LowCH18700-1860

	rum Analyzer - Swep		-							
RL	NF 50 D	DC.			SE:INT		Log-Pwr	TRA	MAug 10, 2018 2E 1 2 3 4 5 6	Frequency
		PNO	Fest	#Atten: 30						
	Ref Offset 13.9 Ref 30.00 d						Mkr5	1.849 s -13.	92 GHz 64 dBm	Auto Tune
20.0					_					Center Free
10.0								-		1.85000000 GH
0.0	_			A32/	5	WHANNIN W	Angles and	-	-13 00 dDm	Start Fre
0.0	where the monthly	whicher	-	and the state of t	14					1.849000000 GH
0.0										Stop Free
50.0			_							1.851000000 GH
tart 1.849 Res BW 3				1.0 MHz			s	top 1.85	1000 GHz 1001 pts)	CF Ste 200.000 kH
Res BW 3		×	#VBW	1.0 MHz	FUN		sweep 1			Auto Ma
1 N 1 2 N 1	1	1.850 000	GHz	-16.80 dB -13.60 dB	m					Freq Offse
3 N 1 4 N 1 5 N 1	1	1.849 888 1.849 972 1.849 992	GHz	-14.04 dB -14.40 dB -13.64 dB	m	_				0 H
6	-	1.040 002		-10.04 00						
8 9 0			_		-	-				
1			1		-	-				
is l							STATUS			

Band2 20MHz QPSK 1 99 HighCH19100-1900

		m Amelyzer - S									ug 10, 2018 1 2 3 4 5 6 A WWWW A NNNNN	
RL		10 50		da.	SERS	E:INT	Ave Tu	pe: Log-Pwr	02:40:021	MAug 10, 2018	Frequency	
enter	Fred	1.9100	00000 GH	NO: Fast ++	Trig: Free P		AAR 13	be cogerwr	T	CP A MANAGEMENT		_
			IF	GaintLow	#Atten: 30	dB			0	ETA NNNNN		
0 dB/di		ef Offset 1 ef 30.00						Mkr1		000 GHz 81 dBm	Auto Tr	ur
og											Center F	
10.0											1.910000000	
		1									1.910000000	G
1.00			M	1		•	1	-				_
0.0			Malme 14	The work of the	Workink	·				-13.00 dDm	Start F	'n
20.0				- • • • • • • • • • • • • • • • • • • •	March	A distant	A ANALAS	mation in			1.909000000	G
30.0			_				1.1.1	. Lord and	specify the factor	manher wet		
0.0										. 1 s		-
50.0											Stop F	
											1.911000000	Gł
60.0				-								-
tart 1.	9090	00 GHz	-	-			_		Stop 1.91	1000 GHz	CFS	te
Res B				#VBV	V 1.0 MHz					(1001 pts)	200.000	k
NR MILE	NUMBER OF		×		*	ELIS		UNCTION WOTH	EURIT	IN VALUE	Auto 1	M
1 N	1		1.910 00	0 GHz	-15.81 dBr							_
2		_				-					Freq Off	Ts
4												0 1
5		_				-				6		
7		_		-		-						
8		_				-						
		-				-						
10		-				-	-					
1									1			_
150								STATU	s			

Band2_20MHz_QPSK_100_0_LowCH18700-1860

Frequency	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN		ALIGN AUTO		Trig: Free Ru	PNO: Fast	D DC		Fre		en
Auto Tun	0 000 GHz 26.65 dBm	kr1 1.850 -2	Mkr		#Atten: 30 dB	FGein:Low		Ref Offset Ref 30.0		B/div	0 di
Center Fre 1.850000000 GH			_								0.0
Start Fre 1.849000000 GH	-13.00 4201	-	marchen	~~~~							
Stop Fre 1.851000000 GH						-					0.0
CF Ste 200.000 kH Auto Ma	.851000 GHz ns (1001 pts)	o 1.000 m		FUNCTION	1.0 MHz	#VB	×	00 GHz 0 kHz		s Bl	Re
Freq Offse 0 H					-26.65 dBm	100 GHz			1		
										_	7890

Band2_20MHz_QPSK_100_0_HighCH19100-1900

	ectrum Analyzer -								
RL Center Fi		0000000 G	Hz NO: Fast	Trig: Free Ru	A	vg Type: Log-Pw	TRAC	MAug 10, 2018 26 1 2 3 4 5 6 26 A WWWWW ET A NNNNN	Frequency
0 dB/div	Ref Offset Ref 30.0	13.9 dB	Gain:Low	#Atten: 30 dł	3	Mkr	1 1.910 0		Hz Bm Center Freq 1.91000000 GHz
10.0									
0.0	-	-	hanne	•1				-13 00 dDm	Start Fre 1.909000000 GH
10,0 50,0 50,0									Stop Fre 1.911000000 GH
Res BW	9000 GHz 300 kHz		#VB	W 1.0 MHz			Stop 1.91 1.000 ms (1001 pts)	CF Ste 200.000 kl Auto M
2 2000 11 2 3 4		1.910.00	DO GHZ	-27.78 dBm	FUNCTION	FUNCTION WO	HEUNICTO	IRI WALUE	Freq Offs
5 6 7 8 9									
11	11			**		STAT	-	· · ·	

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司



Band4 1 4MHz QPSK 1 0 LowCH19957-1710.7

						am Analyzar - Swept	right Spec	
Frequency	TRACE 1 2 3 4 5 6 TVPE A WWWW DET A NNNNN	e: Log-Pwr	Ave	Trig: Free Ru	00000 GHz	q 1.710000	er Fr	Cen
Auto Tur	710 000 GHz -20.14 dBm	Mkr1		#Atten: 30 dB	IFGain/Low 3.9 dB	Ref Offset 13.9 Ref 30.00 dB	Vdiv	0 dl
Center Fre 1.710000000 GP			r.m.					.og 20.0 10.0
Start Fre 1.709000000 GP	-13.00 dBn			<u>+</u>				0.00 10.0 20.0 30.0
Stop Fre 1.711000000 GH						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m	40,0 50,0
CF Sto 200.000 ki Auto M	p 1.711000 GHz 0 ms (1001 pts)	Sweep 6.	FUNCTION	3W 62 kHz	#VE		1.709 BW 2	Re
Freq Offs 01				-20.14 dBm	1.710 000 GHz	1	N 1	23456
							+	7 8 9 10
		STATUS						50

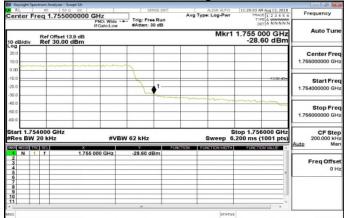
0						Amalyzar - Swept SA			
Frequency	11:17:52 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Type: Log-Pwr	Ave	Trig: Free Run	0 GHz PNO: Wide	1.755000000	Freq		er
Auto Tu	DETANNNN			#Atten: 30 dB	IFGain!Low				_
	1.755 000 GHz -23.02 dBm	MKr1				f 30.00 dBm	R	B/div	0 d
Center Fr									.0g
1.755000000 G				7	(m				0.0
	-13.00 401			4	1			1	0.0
Start Fr 1,754000000 G	-13.00 4019			1					0.0
1.704000000		_							0.0
Stop Fr		the second	- m					-	0.0
1.756000000 G								1	0.0
CF St 200.000 k	top 1.756000 GHz 200 ms (1001 pts)			62 kHz	#VBV	0 GHz Hz	75400 W 20		
Auto M	FUNCTION WALKE	FUNCTION WOTH	FUNCTION	-23.02 dBm	755 000 GHz			N	
Freq Offs				-20.02 0000	ou ouo onia				23
0								_	45
									67
									89
	· · ·								0
		STATUS						_	s

Band4 1 4MHz QPSK 1 5 HighCH20393-1754.3

Band4 1 4MHz QPSK 6 0 LowCH19957-1710.7

RL III 50 D DC Center Freq 1.71000000	PNO: Wide Trig: Free Run	Aug Type: Log-Pwr	11:11:38 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWW DET A NNNNN	Frequency
Ref Offset 13.9 dB 0 dB/div Ref 30.00 dBm	IFGsin:Low #Atten: 30 dB	Mkr1 1	.710 000 GHz -27.67 dBm	Auto Tun
0g 20.0 10.0				Center Fre 1.710000000 GH
10.0 20.0 30.0	1		-13 00 401	Start Free 1.709000000 GH
40.0				Stop Fre 1.711000000 GH
Start 1.709000 GHz Res BW 20 kHz	#VBW 62 kHz		op 1.711000 GHz 00 ms (1001 pts)	CF Ste 200.000 kH Auto Ma
1 N 1 f 1.7 2 3 4 5 5	10 000 GHz77.67 dBm		6	Freq Offse 0 H
6 7 8				

Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3



Band4_3MHz_QPSK_1_0_LowCH19965-1711.5

Keysight Spectrum Analyzer - S			i income		
Center Freq 1.7100	000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	10:57:04 AM Aug 13, 2018 TRACE 1 2 3 4 5 6	Frequency
	PNO: Wide IFGain:Low	#Atten: 30 dB		DET A NNNN	Auto Tun
Ref Offset 1 0 dB/div Ref 30.00			Mkr1	1.710 000 GHz -15.78 dBm	Auto Tun
20.0					Center Fre
10.0					1.710000000 GH
D, D		↓1	2.00	-13.00 dDm	Start Fre
20.0					1.709000000 GH
0.0					Stop Fre
50,0					1.711000000 GH
tart 1.709000 GHz				Stop 1.711000 GHz	CF Ste
Res BW 39 kHz	#VB\	V 120 kHz	Sweep 1 NCHON FUNDERCOMMONE	.667 ms (1001 pts)	200.000 ki Auto Ma
1 N 1 f	1.710 000 GHz	-15.78 dBm			
2 3 4 5					Freq Offse
6 7 8					
9					
50			STATU	s	

Band4_3MHz_QPSK_1_14_HighCH20385-1753.5

		-0- 4 ²
	-Pwr TRACE 1 2 3 4 5 4	Frequency
	Mkr1 1.755 000 GHz	Auto Tune
-13.00 4019		Start Fre 1.754000000 GH
1.75	1.75	Stop Fre 1.756000000 GH
Auto	ep 1.667 ms (1001 pts)	CF Ste 200.000 ki
AT FUNCTION WALVE	4 WOTH FUNCTION WALVE	
		Freq Offs 01
rus	STATUS	

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

f (886-2) 2298-0488



Band4 3MHz QPSK 15 0 LowCH19965-1711.5

Reysight Spectrum Anal	yzer - Swept SA	SENSE:DUT	ALIGN AUTO		
	10000000 GHz		Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	
	PNO: Wide IFGain/Low	#Atten: 30 dB			Auto Tune
	Tset 13.9 dB 0.00 dBm		Mkr1	1.710 000 GHz -26.46 dBm	GHz Auto Tune
0.0					Center Fre
0.0					1.710000000 GH
0.0		/		-13.00 dDm	Start Fre
0.0		1			1.709000000 G
0.0					
0.0					Stop Fre 1.711000000 Gi
tart 1.709000 C				Stop 1.711000 GHz	CF Ste
Res BW 39 kHz		3W 120 kHz		1.667 ms (1001 pts)	200.000 ki Auto M
R MODE THE SEC.	× 1.710 000 GHz	-26.46 dBm	INCTION FUNCTION WOTH	FUNCTION VALUE	Auto Mi
2 3 4					Freq Offs
5				*	01
7 8 9					
0					
		+	TATU		

15 AM Aug 13, 2018 TARACE 1 2 3 4 5 6 TYPE 4 COMMANN NO.						inalyzer - Swept SA			
Frequency	11:05:35 AM Aug 13, 2018 TRACE 1 2 3 4 5 6	g Type: Log-Pwr		SENSE:11	00 GHz	50 D DC	Freq	nter	
	DETANNNNN		n	#Atten: 30 dB	PNO: Wide - IFGain:Low				
GHz Auto Tune	1.755 000 GHz -25.94 dBm	Mkr1				Offset 13.9 dB 30.00 dBm		dB/di	10 d
Contos Fr								· I	.0g
1,755000000 G									10.0
				-		~~~~~~	~~~~		1.00
Start Fr	-13 00 dDm			1				-	0.0
1.754000000 G		_						0	0 0
								0	0.0
Stop Fr		_	-					1	0.0
1.756000000 G			_						50,0
								° —	0.0
CF St 200.000 #	top 1.756000 GHz .667 ms (1001 pts)	Sweep 1.		V 120 kHz	#VB	GHz Hz	7540 W 39		
AUTO N	FUNCTION VALUE	FUNCTION WOTH	FUNCTI	-25.94 dBm	755 000 GHz		1	N	1
Freq Offe									2345
									678
									9
		+ +						-	믵
		STATUS							53

Band4 3MHz QPSK 15 0 HighCH20385-1753.5

Band4_5MHz_QPSK_1_0_LowCH19975-1712.5

Keysight Spectrum Analyzer - Swe					- C
Center Freq 1.71000	DC 0000 GHz PNO: Wide	Trig: Free Run	Avg Type: Log-Pwr	10:46:36 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N	Frequency
Ref Offset 13. 10 dB/div Ref 30.00 d	IFGain:Low 9 dB	#Atten: 30 dB	Mkr1	1.710 000 GHz -21.68 dBm	Auto Tune
00 20.0 10.0					Center Fred 1.710000000 GH:
20.0				-1300 dDm	Start Free 1.709000000 GH
40.0 50.0 60.0					Stop Free 1.711000000 GH
Start 1.709000 GHz Res BW 51 kHz	#VBW	/ 150 kHz		top 1.711000 GHz 000 ms (1001 pts)	CF Step 200.000 kH Auto Mar
I N 1 f 2 - - - 3 - - - 4 - - - 5 - 6 - 7 8 - -	1.710 000 GHz	-21.68 dBm			Freq Offse 0 H
9 10 11			ITATUS		

Band4 5MHz QPSK 1 24 HighCH20375-1752.5

Keynight Spectrum Analyzer - Swept S RL IIF SD D D		SENSE:3NT	ALTON AUTO	10:53:51 AM Aug 13, 2018	
enter Freq 1.7550000	PNO: Wide	Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
	IFGain!Low	#Atten: 30 dB			Auto Tun
0 dB/div Ref 30.00 dB			Mkr1	1.755 000 GHz -23.07 dBm	
20.0					Center Fre
10.0					1.755000000 G
0.00	/				
10.0		~ ·		-13.00 dDm	Start Fr
20.0		¥.			1.754000000 G
30.0					
40.0				~	Stop Free
50.D					1.756000000 G
60.0					
tart 1.754000 GHz Res BW 51 kHz	#VBV	/ 150 kHz	Sweep 1	top 1.756000 GHz 000 ms (1001 pts)	CF Ste 200.000 k
	x 1.755 000 GHz	-23.07 dBm	FUNCTION FUNCTION WOTH	FUNCTION VALUE	Auto M
2	1.755 000 GHz	-23.07 GBm			Freq Offs
4					01
5 6 7				· · · · · · · · · · · · · · · · · · ·	
8					
9					
11					
			STATUS		

Band4_5MHz_QPSK_25_0_LowCH19975-1712.5

			-			-			nalyzer - Sv			
Frequency	AM Aug 13, 2018	TRA	ALIGN AUTO	Avg	NSE:IN		Hz	D DC 00000		req 1		Cer
Auto Tun	DET A NNNNN				lo dB	#Atten: 3	PNO: Wide					
	000 GHz .41 dBm	1.710 (MKr1						Offset 1 30.00		B/div	
Center Fre			_			_	_	_				20.0
1.710000000 GH				-								10.0
Start Fre	-10.00 dDm		_				_	_		_		10,0
1.709000000 GH				1	1-							20.0
Stop Fre			_							~		40.0
1.711000000 GH			-		-		-			+		60.0
05.01-	11000 GHz	ton 1 71							04-	0000	t 1.70	
CF Ste 200.000 kH Auto Ma	(1001 pts)	.000 ms	Sweep 1			V 150 kHz	#VB			51 kł	s BW	#Re
CMTK MIN	TION WALVE	FUNCT	EURCTICA WOTH	FUNCTION	Bm	-28.41 di	000 GHz	1.710		1	N	1
Freq Offse					+						+	234
01							_					5
					+		-			+	+	7 8 9
												10 11
		s	STATUS								_	*

Band4_5MHz_QPSK_25_0_HighCH20375-1752.5

Keysight Spectrum Analyzer - Sw					-o- 4- 🛋
Center Freq 1.75500	00000 GHz	Trig: Free Run	Avg Type: Log-	Pwr TRACE 1 2 3 4	Frequency
Ref Offset 13 10 dB/div Ref 30.00		#Atten: 30 dB	M	Ikr1 1.755 000 G -27.14 dE	Hz Auto Tun
20.0 10.0					Center Fre 1.755000000 GH
10.0 20.0 30.0		e 1		-13.00	30m Start Fre 1.754000000 GH
40.0 60.0 60.0					Stop Fre 1.756000000 GH
Start 1.754000 GHz #Res BW 51 kHz	#VB	W 150 kHz	Swee	Stop 1.756000 G p 1.000 ms (1001 p	
1 N 1 f 2 3 4 5 6 7 7 8 9 10	1.755 000 GHz	-27.14 dBm			Freq Offse 0 H
11			+	-	-
85G				STATUS	

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司



Band4 10MHz QPSK 1 0 LowCH20000-1715

									inalyzar - So			
Frequency	H Aug 13, 2018 2 1 2 3 4 5 6 2 A NNNNN	TRAC	e: Log-Pwr	Avg T	Free Run	Teint	GHz PNO: Wide	00000 G	.71000	req 1		len
Auto Tun	00 GHz 99 dBm	1.710 0	Mkr1		n: 30 dB		PNO: Wide IFGain/Low	3.9 dB	Offset 13		B/div	10 di
Center Fre 1.710000000 GH		1	/			_						20.0 10.0
Start Fre 1.709000000 GH	-ingan				, et	~~~~	m			_		10.00 10.0 20.0 30.0
Stop Fre 1.711000000 GH								mm	nort	~	~~~	40.0 60.0
CF Ste 200.000 kł Auto Ma	1000 GHz 1001 pts)	.000 ms (Sweep 1.	FUNCTION	Hz	BW 300 k	#VE	×	kHz	100	t 1.70 s BW	Re
Freq Offse					9 dBm	-15.9	0 000 GHz	1.710 (1	N 1	1 2 3 4 5 6
												6 7 8 9 10 11
			STATUS							-		150

Keysight Spectrum Analyzer - Sw		_QPSK_1	_49_HighCl	120350-175	0
RL 107 50 1	PNO: Wide ++	Trig: Free Run	Avg Type: Log-Pwr	10:42:43 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
Ref Offset 13 10 dB/div Ref 30.00	IFGain:Low	#Atten: 30 dB	Mkr1	1.755 000 GHz -15.65 dBm	Auto Tun
-og 20.0 10.0 10.0					Center Fre 1.755000000 GH
10.0 ymm	muse	menting.	m	-13 00 421	Start Fre 1.754000000 GH
40.0 50.0 50.0					Stop Fre 1.756000000 GH
Res BW 100 kHz	#VB)	V 300 kHz		top 1.756000 GHz 000 ms (1001 pts)	CF Ste 200.000 kF Auto Ma
N 1 f 2 N 1 f 3	1.755 000 GHz 1.755 010 GHz	-16.65 dBm -14.32 dBm		+	Freq Offs 0 F
9 10 11 (STATUS		

Band4 10MHz QPSK 50 0 LowCH20000-1715

RL IU 50 D DC	SENSE:INT	ALIGN AUTO 10	32:42 AM Aug 13, 2018	
Center Freq 1.71000000	PNO: Wide Trig: Free Run IFGsiniLow #Atten: 30 dB	Avg Type: Log-Pwr	THACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
Ref Offset 13.9 dB 0 dB/div Ref 30.00 dBm	Possilicow writen or op		10 000 GHz -27.52 dBm	Auto Tune
0g 20.0 10.0				Center Free 1.710000000 GH
10.0 20.0 30.0	i	mart	-13 00 45 1	Start Free 1.709000000 GH
40.0			[Stop Free 1.711000000 GH
Start 1.709000 GHz Res BW 100 kHz	#VBW 300 kHz	Sweep 1.000	1.711000 GHz ms (1001 pts)	CF Stej 200.000 kH Auto Ma
	10 000 GHz -27.52 dBm		6	Freq Offse 0 H

Band4 10MHz QPSK 50 0 HighCH20350-1750

RL	g 1.75500000	0 GHz PNO: Wide	SERGE IN	Avg	ALIGN AUTO	10:43:31 AM Aug 13, 201 TRACE 1 2 3 4 5 TYPE A WWW DET A NNNN	Frequency
	Ref Offset 13.9 dB	IFGain/Low	#Atten: 30 dB		Mkr1	1.755 000 GH -23.69 dBr	z Auto Tur
0 dB/div 20.0 10.0	Ref 30.00 dBm					-23.09 081	Center Fro 1.755000000 Gi
0.0		- Anon	nonnen	v		-13 00 40	Start Fr 1.754000000 G
0.0							Stop Fr 1.756000000 G
tart 1.754 Res BW 1	00 kHz	#VB	W 300 kHz		Sweep 1	Stop 1.756000 GH .000 ms (1001 pts	
2 000 020 1 N 1 2 3 4 5		55 000 GHz	-23.69 dBm	FUNCTION	FUNCTION WOTH	FUNCTION WALVE	Freq Offs 0
6 7 8 9							
ii					STATU		

Band4_15MHz_QPSK_1_0_LowCH20025-1717.5

	M Aug 11, 2018	10:17:14 4	ALTON AUTO		USE-INT	1 50			Analyzer - Sive	117		R
Marker	CE123456	TRAC	RMS	Avg Typ	Run	Trig: Fre			1.04.0			_
Select Marker	ET A NNNNN	D	100/100	CARING .		#Atten: 3	PNO: Wide = FGain!Low					
1	000 GHz 85 dBm	1.710 0	Mkr1						Offset 13		B/div	dł
Norm		/									_	0
			week		1	A3A2	-			_	_	
Delt	-13.00 dDm		n :	turn	www.	www.han	www	horality	mm	m	Allah	0
							-			~		0
Fixed							-					0
	1000 GHz					N 620 kHz			GHz	200		
0	(1001 pts)		sweep 1.	CTION FI	FU	Ŷ		x		10 100	2010	
Properties				_	3m	-13.585 d -13.621 d -14.227 d	50 GHz	1.710 00 1.709 95 1.709 88		1	ZZZ	
							_			-	-	
Moi 1 of				-			-			+	+	
	· ·			-	-		-		_	-	-	4
			STATUS									

Band4_15MHz_QPSK_1_74_HighCH20325-1747.5

0.4						_		Analyzer - S			M Ke
Frequency	10:26:59 AM Aug 13, 2018 TRACE 1 2 3 4 5 6	RMS	Ave To	Free Run				UF 50	-		ĸ
Auto Tur	DET A NNNN N		Avgino	: 30 dB		PND: Wide == FGain:Low					
AutoTur	1.755 000 GHz -14.784 dBm	Mkr1						of Offset 1 of 30.00		B/div	0 d
Center Fre		-	_			_	_	~	~		30.0
1.755000000 GH			-		-	-					0.0
	-13.00 a51 MJNymmyNJNY			1:34		manner.	No.				0.0
Start Fre 1.754000000 GH	ANT Marine a land	-	and the second	Charloch !!	apartalit	4.0	-				20.0
	and Maganda Da			_	-						30.0
Stop Fre				-						1	40.0
1.756000000 GH											50,0 50,0
CF Ste	top 1.756000 GHz							0 GHz	7540 W 20		
200.000 kH Auto Ma	000 ms (1001 pts)		NOTION	HZ [*]	W 620 kł	#VB					
	FORT CONTRACTOR	C CONVICTION	and them in		-14.784	00 GHz			1	N	1
Freq Offs				dBm	-13.303	16 GHz 40 GHz	1,755 0			N	23
01					-13.268 -13.467	70 GHz 82 GHz			1	NN	4
				-				-		_	6 7 8
				-		-		-		_	9
	· ·	-	-	-		1		-		_	11
		STATUS									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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司



Band4_15MHz_QPSK_75_0_LowCH20025-1717.5

Frequency	10:18:35 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N	ALIGH AUTO	Frig: Free Run Atten: 30 dB	000000 GHz PNO: Wide * IEGainiLow	req 1.710		n R Cen
Auto Tur	1.710 000 GHz -28.47 dBm	Mkr1			Ref Offset Ref 30.00	B/div	10 d
Center Fre 1.710000000 GF							20.0
Start Fre 1.709000000 GF	-1300-001	and and a second second	1				10,0 10,0 20,0 30,0
Stop Fre 1.711000000 GH							40.0 50.0 60.0
CF Ste 200.000 kF Auto Ma	top 1.711000 GHz .000 ms (1001 pts)	Sweep 1.	20 kHz	#VB	9000 GHz 200 kHz		Re
Freq Offs 0 F			28.47 dBm	1.710 000 GHz	1	N 1	12345
							6 7 9 10
		STATUS	+				*

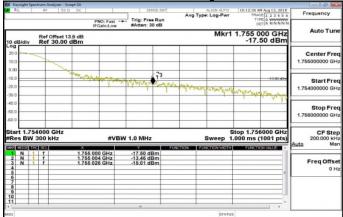
									nalyzar - S			
Frequency	# Aug 11, 2018 # 1 2 3 4 5 6	TRAC	ALIGN AUTO	Avg	SENSE: IN		GHz	D DC DC	.7550	req 1		en
Auto Tur	00 GHz	1.755 0	Mkr1		n: 30 dB		PNO: Wide IFGain:Low	13.9 dB			Bidiv	0.45
Center Fre 1.755000000 GR					-				30.00	Kei		og 20.0 10.0
Start Fre 1.754000000 Gi	-13.00 424			man	•'-		man	- Mart				0.00 10.0 20.0 30.0
Stop Fre 1.756000000 Gi			-			-	-			_		40,0 50,0
CF Ste 200.000 k Auto M		.000 ms (Sweep 1	FUNCTION		W 620 kH		×		200	s BW	Re
Freq Offs 01					I dBm	-23,44	000 GHz	1.755		1 1	N	1234567
							_				+	8 9

Band4_15MHz_QPSK_75_0_HighCH20325-1747.5

Band4_20MHz_QPSK_1_0_LowCH20050-1720

			-c- 4 🕰
RL IIF 50 D DC	PNO: Fast Trig: Free Run	ALIGN AUTO 10:03:49 AM Aug 13, 201 Avg Type: Log-Pwr TRACE [1 2 3 45 TYPE A WWWW DET A NN NN	- Frequency
Ref Offset 13.9 dB	IFGain/Low #Atten: 30 dB	Mkr1 1.710 000 GH: -19.22 dBm	Auto Tun
0.0			Center Fre 1.710000000 GH
	mus from from from from	Maun Man 13000	Start Fre 1.709000000 GH
0.0			Stop Fre 1.711000000 GH
tart 1.709000 GHz Res BW 300 kHz	#VBW 1.0 MHz	Stop 1.711000 GH Sweep 1.000 ms (1001 pts	
	710 000 GHz -19.22 dBm 709 982 GHz -13.64 dBm		
	-13.04 UBIN		Freq Offse

Band4_20MHz_QPSK_1_99_HighCH20300-1745



Band4_20MHz_QPSK_100_0_LowCH20050-1720

10 dB/div	q 1.710000	000 GHz	SENSE:3NT	ALIGN AUTO	10:04:49 AM Aug 13, 2018	
0 dB/div			Trig: Free Run	Avg Type: Log-Pwr	THACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Frequency
0 dB/div		PNO: Fast IFGain:Low	#Atten: 30 dB			Auto Tune
00	Ref Offset 13.9 Ref 30.00 dE			MKr1	1.710 000 GHz -26.07 dBm	
20.0						Center Free 1.710000000 GH
0.00 10.0 20.0			• ¹	- withing we are a start and a start and a start and a start and a start a start and a start and a start and a	1300 601	Start Free 1.709000000 GH:
40.0 50.0						Stop Free 1.711000000 GH
tart 1.709 Res BW 3	00 kHz	#VBW	1.0 MHz		Stop 1.711000 GHz .000 ms (1001 pts)	CF Stej 200.000 kH Auto Ma
1 N 1 2 3 4		1.710 000 GHz	-26,07 dBm			Freq Offse
5 6 7 8 9					*	
10						

Band4_20MHz_QPSK_100_0_HighCH20300-1745

Keysight Spectrum Analyzer - Swept SA				-0- 4 ⁰ 2
Center Freq 1.755000000	GHz PNO: Fest Trig: Free Run	Avg Type: Log-Pwr	10:13:23 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWWW DET A NNNNN	Frequency
Ref Offset 13.9 dB	IFGein Low #Atten: 30 dB	Mkr1	1.755 000 GHz -25.27 dBm	Auto Tun
og 20.0 10.0				Center Fre 1.755000000 GH
1.00 00.0 00.0	1		-1300 dDre	Start Fre 1.754000000 GH
40.0 50.0				Stop Fre 1.756000000 GH
tart 1.754000 GHz Res BW 300 kHz	#VBW 1.0 MHz	Sweep 1	Stop 1.756000 GHz I.000 ms (1001 pts)	CF Ste 200.000 ki Auto M
ADDE 1120 1900 X 1 N 1 f 1.76 2 3 4	5 000 GHz -25.27 dBm	FUNCTION FUNCTION WOTH	FUNICITION VALUE	Freq Offs
4 5 7 7 8 9 9				01
11 (ETATU		

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd.

台灣檢驗科技股份有限公司



Band5 1 4MHz QPSK 1 0 LowCH20407-824.7

						Analyzer - Swept			
Frequency	01:34:55 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYOP A MANAGEM	Type: Log-Pwr		Trig: Free Ru	DOO MHz	50 D 824.0000	req		len
Auto Tur	1 824.000 MHz -25.93 dBm	Mkr		#Atten: 30 dt	PNO: Wide * IFGain/Low	Offset 13.6	Ref		
Center Fre 824.000000 MH	-20.55 UBIN	7	1		Bm	f 30.00 dB	Rei	3/div	.og 20.0 10.0
Start Fre 823.000000 MH	-13 00 dDr	hanne	/	1					0.00 10.0 20.0 30.0
Stop Fre 825.000000 Mi							~~~	-	40,0 50,0
CF Ste 200.000 ki Auto Mi	Stop 825.000 MHz .200 ms (1001 pts)	Sweep 6	FUNCT	W 62 kHz	#VB	Hz	.000 20 k	s BW	Re
Freq Offs 0 F				-25.93 dBm	824.000 MHz		1 1	N	123456
									7 8 9 10
		STATUS							50

	trum Analyzer - Swept SA					
RL Center Fr	a 849.00000		SENSE:INT	Aug Type: Log-Pwr	01:42:33 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	Frequency
-ontor rite		PNO: Wide	#Atten: 30 dB		DET A NNNNN	
0 dB/div	Ref Offset 13.6 dl Ref 30.00 dBm	3		Mk	1 849.000 MHz -22.06 dBm	Auto Tur
og 20.0 10.0		~	~			Center Fre 849.000000 MH
10.0 10.0 20.0 1			1		-13 00 dDa	Start Fre 848.000000 MH
40.0 50.0					Same and some	Stop Fre 850.000000 MH
tart 848.0 Res BW 2	0 kHz	#VBV			Stop 850.000 MHz .200 ms (1001 pts)	CF Ste 200.000 kł Auto Ma
1 N 1 2 3 4 5	r	849.000 MHz	-22.06 dBm			Freq Offs 0 F
6 7 8 9						
				1		
50				STATUS		

Band5_1_4MHz_QPSK_1_5_HighCH20643-848.3

Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7

						triam Analyzar	sight Spect	
Frequency	01:36:00 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	g Type: Log-Pwr	Free Run		50 D DC 0000000 MHz		ter Fre	Cen
Auto Tun	1 824.000 MHz -31.36 dBm	Mkr	en: 30 dB		IFG et 13.6 dB	Ref Offse Ref 30.0		10 di
Center Fre 824.000000 MH								20.0 10.0 0.00
Start Free 823.000000 MH	-13 00 dDa		1					-10.0 -20.0 -30.0
Stop Fre 825.000000 MH						~~~	~~~~	40.0 50.0 60.0
CF Stej 200.000 kH Auto Ma	Stop 825.000 MHz 200 ms (1001 pts)			#VBW 62 kHz			t 823.0 s BW 2	#Re
Freq Offse 0 H			6 dBm) MHz -31.36	824.000	7	<u>N</u> 1	1 2 3 4 5
								6 7 9 10 11
		STATUS						150

Band5 1 4MHz QPSK 6 0 HighCH20643-848.3

	tt Spectru	am Analyza									
RL	. Francis			DC MH2	-	SENSE:1		Type: Log-Pwr	01:43:04 PM Aug 1 TRACE 1 2	3,2018	Frequency
ente	Free	q 849.	0000	P	NO: Wide ==	#Atten: 30 dE	n	The color at	DET A N	NNNN	
0 dB/d		Ref Offs Ref 30.						Mk	r1 849.000 -28.31 d		Auto Tur
20.0										_	Center Fr 849.000000 M
-10.0		-				1	_			1 00 dDm	Start Fre 848.000000 Mi
30.0 40.0 60.0							101201 * 104-24	and a start and a start a		~~~	Stop Fr 850.000000 M
Res	3W 20				#VB	N 62 kHz			Stop 850.000 i.200 ms (100	1 pts)	CF Str 200.000 k Auto M
MRR MOD		1		849.00	0 MHz	-28.31 dBm	FUNCTION	FUNCTION WOTH	FUNCTION VAL	UE A	
2 3 4 5										Ξ.	Freq Offs
6 7 8 9 10											
11	+ +	-			-			-	-		
50								STATU	-		

Band5_3MHz_QPSK_1_0_LowCH20415-825.5

-c						Analyzer - Swept SA			
Frequency	01:23:51 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	g Type: Log-Pwr	SE:INT		AHz	824.000000 N	req 824		RI Cen
Auto Tun	1 824.000 MHz	Malend		#Atten: 30	PNO: Wide IFGain:Low				_
	-17.49 dBm	MIKE				f 0ffset 13.6 dB f 30.00 dBm		B/div	IO de
Center Fre		_	-					-	20.0
824.000000 MH			/						10.0
Start Fre	-13.00 dDm	- and	1				_		10.0
823.000000 MH				~	-				-20.0
Stop Fre					~		1	-	40.0
825.000000 MH								-	60.0
CF Ste 200.000 kH	Stop 825.000 MHz						.000 MH		
Auto Ma	.667 ms (1001 pts)	Sweep 1.6		120 kHz		. ×		S BW	
Freq Offs			m	-17.49 dB	4.000 MHz	824	1 1	N 1	1 2 3
01			-					-	4 5
			-						678
			-						
									9 10 11

Band5_3MHz_QPSK_1_14_HighCH20635-847.5

									n Analyzar - Si	ectru		Kary R R I
Frequency	PM Aug 13, 2018 HCE 1 2 3 4 5 6 HPE A WWWWW DET A NNNNN	TRAC	e: Log-Pwr	Avg	Run	1	IZ	0000 M	849.00	ree		
Auto Tur	000 MHz	r1 849.0	Mki			#Atten:	PNO: Wide - FGain/Low	3.6 dB	ef Offset 1 ef 30.00		B/div	
Center Fre 849.000000 MH						2	r			_	_	20.0 10.0
Start Fre 848.000000 MF	-13.00 dDm			~	•1-	~		~	~~~	~~	~	-10.0 -20.0 -30.0
Stop Fre 850.000000 MF	2	~										40.0 50.0 60.0
CF Ste 200.000 kH Auto Ma	0.000 MHz (1001 pts)	.667 ms (Sweep 1		z	120 kH;	#VB			39	s BV	Re
Freq Offs	ION WALKE	FUNCTO	NCTION WOTH	FUNCTION	Bm	-16.07 d	00 MHz	849.			N	1 2
01					-		-				-	3 4 5 6 7
					-							8 9 10
			STATUS								-	<

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司



Band5 3MHz QPSK 15 0 LowCH20415-825.5

- c- di 🖌							rum Analyzer - Sw	night Spec	
Frequency	MAug 11, 2018 26 1 2 3 4 5 6 27 A N N N N N	TRAC	Type: Log-Pwr	A	Trig: Free Rur		eq 824.000	er Fr	Cen
Auto Tur	00 MHz 54 dBm	r1 824.0	Mk		#Atten: 30 dB	IFGain:Low	Ref Offset 13 Ref 30.00	Vdiv	10 di
Center Fre 824.000000 MH				_					20.0 10.0
Start Fre 823.000000 Mi	-13.00 dDm			_	¢1-				10,0 10,0 20,0 30,0
Stop Fre 825.000000 Mi									40.0 50.0
CF Ste 200.000 ki Auto M		.667 ms (Sweep 1	FUNCTION	W 120 kHz	#VB		823.0 BW 3	Re
Freq Offs 01					-27.54 dBm	824.000 MHz	1	N 1	1234567
								1	8 9 10 11
		s	STATU						53

						Analyzer - Swep	pectrum		Ke Ke
Frequency	01:31:17 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	Type: Log-Pwr		SENSE:1	0000 MHz				
	DET A NNNN			Trig: Free Ru #Atten: 30 dB	PNO: Wide				
Auto Tu	1 849.000 MHz -25.36 dBm	Mkr				Offset 13.6 5 30.00 dl		B/div	0 d
Center Fro 849.000000 Mi									20.0
Start Fr	-13 00 dDm					~~~			0.00
848.000000 M			~·	×.			_		20.0
Stop Fr 850.000000 M			_				_	\vdash	0.0
CF Ste 200.000 ki Auto M	Stop 850.000 MHz 667 ms (1001 pts) EW/INTERNATION		FUNCTIO	120 kHz	×	Hz	8.000 V 39 k	nt 84 Is BV	Re
Freq Offs				-25.36 dBm	849.000 MHz		1 1	N	23454
									6 7 8 9 0
		• •						- 1	1
		STATUS							R

Band5_3MHz_QPSK_15_0_HighCH20635-847.5

Band5_5MHz_QPSK_1_0_LowCH20425-826.5

RL IV SDD D		SENSE:INT	ALIGN AUTO	01:07:23 PM Aug 13, 2018	
Center Freq 824.00000		1	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
Ref Offset 13.6 d 0 dB/div Ref 30.00 dB	в	#Atten: 30 dB	Mkr	1 824.000 MHz -22.73 dBm	Auto Tuni
20.0 10.0					Center Free 824.000000 MH
20.0		1-		-1303 451	Start Free 823.000000 MH
40.0	~				Stop Free 825.000000 MH
start 823.000 MHz Res BW 51 kHz	#VBW	/ 150 kHz		Stop 825.000 MHz 000 ms (1001 pts)	CF Step 200.000 kH Auto Ma
N 1 f 2 - - 3 - - 4 - - 5 - - 6 - - 7 - - 9 - - 9 - -	824.000 MHz	-22.73 dBm			Freq Offse 0 H
8					

Band5_5MHz_QPSK_1_24_HighCH20625-846.5

-c>- (\$	01:15:02 PM Aug 13, 2018	ALIGN AUTO		SENSE:10		pr SA	nalyzar - Sw 50 D	etrum A		Key R
Frequency	TRACE 1 2 3 4 5 6	pe: Log-Pwr	Avg	rig: Free Ru		000 MHz				
Auto Tu	DET A NNNNN			Atten: 30 dB	Wide	PN				
Auto Tu	1 849.000 MHz -22.24 dBm	Mkr					Offset 13 30.00		B/div	10 di
Center Fr										.og
849.000000 M			_		1				-	10.0
		-				1		-	-	0.00
StartFr	-13.00 dDm	-	_	1-			-			10.0
848.000000 M				1	_			_	1	20.0
		_	-					_		40.D
Stop Fr 850 000000 M	~~~~~	m	_					-	-	50,0
000,000000 11								-	-	60.0
CF St 200.000 k	Stop 850.000 MHz 000 ms (1001 pts)			50 kHz	#VBW			000 P 51 ki		
uto M	EUNICIÓN WALUE	UNCTION WOTH	FUNCTION	22.24 dBm	MHz	849.000			N	
Freq Offs										23
0									-	4
					_				-	67
					_				-	8
									-	10
		STATUS								50

Band5_5MHz_QPSK_25_0_LowCH20425-826.5

		-					_		knalyzer -		ht Spect		
Frequency	TRACE 1 2 3 4 5 6		ype: Log-Pwr	Ave	SUNSE:1		MHz	D0000	324.0	eq 8	r Fre	nter	
	DET A NNNNN			1	Atten: 30 dB		PNO: Wid IFGain/Lo						
Auto Tun	24.000 MHz -29.83 dBm	kr1 8	м					13.6 dB 0 dBm			līv	B/di	0 d
Center Fre 824.000000 MH							_					-	20.0
Start Fre 823.000000 MH	-13.00 dDm			J	1	-	_			+			0.00 10.0 20.0
Stop Fre 825.000000 MH		_			~~~		~~~			-	~		30.0 40.0 50.0
CF Ste 200.000 kH Auto Ma	825.000 MHz ms (1001 pts)	1.000	Sweep	EUNCTION	50 kHz	VBW	#			51 k	323.0 3W 5	rt 8	Re
Freq Offse					29.83 dBm	2	.000 MHz	82		1	1	N	1 2 3 4
													5 6 7 8 9
		-				-							11

Band5_5MHz_QPSK_25_0_HighCH20625-846.5

Conter Freq 849,000000 MHz Prequency Trig: Free Run Prequency Avg Type: Log-Per Trig: Free Run Prequency Trig: Free Run Prequency March 23,3 as Trig: Free Run Prequency Prequency 10 dBidwy Ref Offset 13,6 dB Mkr1 84,0000 MHz Prequency Mkr1 84,0000 MHz Prequency Auto Tur 00 dBidwy Ref 30,000 dBm -28,92 dBm Center Fre 849,00000 MHz Center Fre 849,00000 MHz 00 dbidwy Ref 30,000 MHz 1 100 ms Stop 850,000 MHz 00 dbidwy Ref 349,000 MHz Stop 850,000 MHz Stop 850,000 MHz 00 dbidwy Trig: Freq URING Stop 850,000 MHz CF 585 00 dbidwy Trig: Stop 850,000 MHz CF 585 Auto 01 dbidwy Trig: Ref 249,000 MHz 28,92 dBm Auto 01 dbidwy Trig: Ref 249,000 MHz 28,92 dBm Freq Offs	Keysight Spectrum i					
Ref Offset136.db Auto Tur 0.68/0V Ref 30.00 dbm -28.92 dbm 0.09 -28.92 dbm -28.92 dbm 0.00 -28.92 dbm -28.92 dbm 0.01 -28.92 dbm -28.92 dbm 0.02 -28.92 dbm -28.92 dbm 0.03 -28.92 dbm -28.92 dbm 0.01 -28.92 dbm -28.92 dbm 0.02 -28.92 dbm -28.92 dbm 0.01 -28.92 dbm -28.92 dbm <t< th=""><th></th><th>849.000000 MHz</th><th></th><th></th><th>TRACE 1 2 3 4 5 6</th><th></th></t<>		849.000000 MHz			TRACE 1 2 3 4 5 6	
300 300 <th>10 dB/div Ref</th> <th>IFGein:Lo Offset 13.6 dB</th> <th></th> <th>Mk</th> <th>r1 849.000 MHz</th> <th>Auto Tun</th>	10 dB/div Ref	IFGein:Lo Offset 13.6 dB		Mk	r1 849.000 MHz	Auto Tun
100	20.0					Center Fre 849.000000 MH
Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Stop 850.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Start 848.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Start 848.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Start 848.000 MHz CF Start 848.000 MHz Start 848.000 MHz #VBW 150 KHz Start 848.000 MHz CF Start 848.000 MHz	-10.0		he'		-13.00 dDn	Start Fre 848.000000 MH
Res BW 51 kHz #VBW 150 kHz Sweep 1.000 ms (1001 pts) 200/000 kHz Collocation 2001 C	60,0					
N 1 f 849.000 MHz 28.92 dBm Freq Offs 3 - - - - - - - - - - - 0 0 0 0 0 - - - - - - - - - - 0 0 0 0 0 - - - - - - - - - - 0 0 0 0 - - - - - - - - - - 0	Res BW 51 k	Hz #1	A		1.000 ms (1001 pts)	200.000 ki
	1 N 1 f 2 3 4 5 6 6 7 8 9 9 10		-28.92 dBm			Freq Offs 01
	41 <u>.</u>					

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488



Band5 10MHz QPSK 1 0 LowCH20450-829

MHz PNO: Wide IFGsiniLow	Trig: Free R #Atten: 30 d	un B		Mkr	1 824.0	M Aug 13, 2018 12 2 3 4 5 12 3 4 5 14 NN NN 00 MHz 74 dBm	Frequency Auto Tun Center Fre 824.00000 MH Start Fre 823.00000 MH
IFGeiniLow	#Atten: 30 d	8		Mkr	1 824.0	00 MHz 74 dBm	Center Free 824.000000 MH Start Free
man		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		/		~	824.000000 MH Start Fre
manow		~~~~	- And			Witten	
		_					Stop Fre 825.000000 MH
#VB\	W 300 kHz	FUNCTI		Sweep 1.	.000 ms (1001 pts)	CF Ste 200.000 kH Auto Ma
24.000 MHz	-14.74 dBm						Freq Offse
	_	#VBW 300 kHz 24.000 MHz -14.74 dBm	24.000 MHz -14.74 dBm	24.000 MHz -14.74 dBm	#VEW 300 kHz Sweep 1 24.000 MHz -14.74 dBm Foxed of Foxed	#VEW 300 kHz Evere 1.000 ms (24.000 MHz -14.74 dBm 2004000 (20140000) (20140000) (20140000)	24.000 MHz -14.74 dBm Function Function Function World Function Function World Function Fu

Keysight Spectrum Analyzer - Swep RL III 50 D					-e- 14 🖬
RL IUF 50 D	PNO: Wide	Trig: Free Run	Avg Type: Log-Pwr	11:30:59 AM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Frequency
Ref Offset 13.6	IFGein:Low	#Atten: 30 dB	Mk	r1 849.000 MHz	Auto Tur
dB/div Ref 30.00 dl				-16.40 dBm	
0.0					Center Fr 849.000000 M
00 0.0	-com	m 133	m.	-13.03 dDm	Start Fr 848.000000 M
0.0			- money	mmm	Stop Fr 850.000000 M
art 848.000 MHz es BW 100 kHz	#VBW	300 kHz	Sweep 1	Stop 850.000 MHz .000 ms (1001 pts)	CF Ste 200.000 ki Auto Mi
N 1 1 2 N 1 1 3 N 1 1 4 5 6	849.000 MHz 849.014 MHz 849.062 MHz	-16.40 dBm -14.47 dBm -14.73 dBm			Freq Offs 01
9 9 0					
			TATU		

Band5 10MHz QPSK 1 49 HighCH20600-844

Band5_10MHz_QPSK_50_0_LowCH20450-829

	11:24:30 AM Aug 13, 2018	ALIGN AUTO	SENSE:INT		am Analyzar - Swept SA	RL
Frequency	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Avg Type: Log-Pwr	Trig: Free Run	PNO: Wide	q 824.000000 M	enter Fr
Auto Tun			#Atten: 30 dB	IFGein!Low		
Auto Tun	1 824.000 MHz -26.44 dBm	Mkr			Ref Offset 13.6 dB Ref 30.00 dBm) dB/div
Center Fre						0.0
824.000000 MH						0.0
StartFre	-13 00 dDn					0.0
823.000000 MH		Jungal	mm			0.0
					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.0
Stop Fre 825.000000 MH						0.0
	Stop 825.000 MHz					tart 823.
CF Ste 200.000 kH Auto Ma	000 ms (1001 pts)		300 kHz	#VBW		Res BW
<u>Suro</u> ma	FUNCTION VALUE	TON FUNCTION WOTH	-26,44 dBm	4.000 MHz		N 1
Freq Offse						2 3 4
	*					5 6 7
						6 7 8 9
						0
		STATUS				a

#### Band5_10MHz_QPSK_50_0_HighCH20600-844

Center Freq 849	50 B DC	SENSE:INT	Auton Auto Avg Type: Log-Pwr	11:31:24 AM Aug 13, 2018 TRACE 1 2 3 4 5 6	Frequency
	PNO: Wide IFGain:Low	#Atten: 30 dB		DET A NNNNN	
	et 13.6 dB .00 dBm		Mk	r1 849.000 MHz -25.66 dBm	Auto Tur
20.0					Center Fre 849.000000 MH
10.0		unnin		-13.00 40+	Start Fre 848.000000 Mi
30.0 40.0 50.0 60.0					Stop Fr 850.000000 M
Start 848.000 MH #Res BW 100 kHz	#VI	BW 300 kHz		Stop 850.000 MHz .000 ms (1001 pts)	CF Ste 200.000 ki Auto M
1 N 1 7 2 3 4 5	× 849.000 MHz	-25.66 dBm	FUNCTION FUNCTION WOTH	FURICICIAN VALUE	Freq Offs
6 7 8 9 10 11					

### Band7_5MHz_QPSK_1_0_LowCH20775-2502.5

					rum Analyzer - Swept SA		
Frequency	02:29:54 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Avg Type: Log-Pwr	Trig: Free Run		10 50 D DC	L	R
Auto Tur	2.500 000 GHz	Mkr1	#Atten: 30 dB	PNO: Wide ++ IFGain/Low			_
	-19.03 dBm				Ref Offset 14.1 dB Ref 30.00 dBm	B/div	
Center Fre							20.0
2.500000000 GH							10.0
Start Fre	-10.00 401		1200	_		-	10.0
2.499000000 GH			/				-20.0
Stop Fre				~			40.0
2.501000000 GH							-60.0
CF Ste	top 2.501000 GHz	S			000 GHz		
200.000 kH Auto Ma	000 ms (1001 pts)	Sweep 1.	150 kHz	#VBV		s BW :	_
			-19.03 dBm	00 000 GHz	f 2.60	N 1	1
Freq Offse							3
							5 6 7 8
							9
							10
		STATUS					150

# Band7_5MHz_QPSK_1_24_HighCH21425-2567.5

		and the second second		nalyzer - Swept SA		
Frequency	02:37:58 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Avg Type: Log-Pwr	Trig: Free Run	50 D DC	1	RL
Auto Tur	2.570 000 GHz -19.58 dBm	Mkr1	#Atten: 30 dB	PNO: Wide IFGein!Low Offset 14.1 dB 30.00 dBm		dB/div
Center Fre 2.570000000 GR						0.0 0.0
Start Fre 2.569000000 GH	~13.00 dDn		1-		~	
Stop Fre 2.571000000 GH						0.0
CF Ste 200.000 ki Auto Mi	top 2.571000 GHz .000 ms (1001 pts)	Sweep 1	W 150 kHz	Hz #VE	W 51	tart 2. Res B
Freq Offs	FUNCTION VALUE	THON FUNCTION WIGHT	-19.68 dBm	2.570 000 GHz	1 1	1 N 2 3
0)	6					5 6 7 8
						0
		STATUS				3

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488



#### Band7 5MHz QPSK 25 0 LowCH20775-2502.5

- 0- Ø							Analyzer - Swept SA	Spectre		
Frequency	CE 1 2 3 4 5 6	TRAC	ALIGH AUTO	Avg	Trig: Free Ru		F 50 D DC	-	u.	4 3
Auto Tur		-			#Atten: 30 dB	PNO: Wide H IFGain:Low				
Auto Tu	000 GHz .82 dBm	2.500 0	Mkr1				f Offset 14.1 dB		B/di	10 0
Center Fre						_				20.0
2.500000000 GH									1	10.0
	-13.00 -00-			1						0.00 10.0
Start Fre 2.499000000 Gi	13.00 0.00				¢1					20.0
2.4000000000								~	-	30 (
Stop Fre			-						1	40.0
2.501000000 GI										60.0
CF Ste 200.000 ki	1000 GHz (1001 pts)	Stop 2.50	Sweep 1		150 kHz	#VB1	0 GHz kHz	4990 W 51		
Auto M	ION WALUE		UNCTON WOTH	FUNCTION	-24.82 dBm	000 GHz		1	-	-
Freq Offs										234
						-				5
										789
									_	10 11
									-	
		s	STATUS							53

	02:38:57 PM Aug 13, 2018	ALIGN AUTO		SENSE:0	pt SA	Analyzer - Sw 50 D	pectriami i		Key Ri
Frequency	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Type: Log-Pwr			PNO: Wide	1.50 14	10	-	
Auto Tur				#Atten: 30 dB	IFGain:Low				
Auto Tur	2.570 000 GHz -27.89 dBm	Mkr1				Offset 14		B/div	0 dl
Center Fre		_							20.0
2.570000000 GI		-							0.0
	-12.00 (20)								0.00 D.D
Start Fr 2.569000000 G	-10.00 dDm			1-					0.0
2.56900000 G				-					30.0
Stop Fr		_	_				-		(D, D
2.571000000 G			-	+ +			-		50,0
									50.0
CF Ste 200.000 k	top 2.571000 GHz 000 ms (1001 pts)			W 150 kHz	#VE	) GHz	6900 / 51 k		
Auto M		HUDIOGWOOD	FUNCTIO	Y TOO MILE	×			_	_
				-27.89 dBm	2.570 000 GHz		1 1	N	2
Freq Offs									3
							-	-	5
									78
									9 10
						-	-	_	11
		STATUS							a

Band7_5MHz_QPSK_25_0_HighCH21425-2567.5

# Band7_10MHz_QPSK_1_0_LowCH20800-2505

RL NF 50 D DC	SENSE:INT		2:17:20 PM Aug 13, 2018	Frequency
	PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	
Ref Offset 14.1 dB 0 dB/div Ref 30.00 dBm			500 000 GHz -13.235 dBm	Auto Tune
20.0 10.0				Center Free 2.500000000 GH
0.0		~~~~		Start Fre 2.499000000 GH
0.0				Stop Fre 2.501000000 GH
tart 2.499000 GHz Res BW 100 kHz	#VBW 300 kHz*		0 2.501000 GHz 0 ms (1001 pts)	CF Stej 200.000 kH Auto Ma
1 N 1 1 2.50 2 3 4 5 5	0.000 GHz -13.235 dBm			Freq Offse 0 H
6 77 88 99 99 90 100 100 100 100 100 100 100 10				
50		STATUS		

#### Band7 10MHz QPSK 1 49 HighCH21400-2565

RL III :	ID DC	SUNSE:INT	ALTON AUTO	02:26:01 PM Aug 13, 2018	Frequency					
	PND: Wide	Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Frequency					
dB/div Ref 30.0	Ref Offset 14.1 dB Mkr1 2.570 000 GHz									
0.0					Center Fre 2.570000000 GH					
0.0 44	man	1?	and man	-13 00 dDn	Start Fr 2.569000000 G					
				mount	Stop Fr 2.571000000 G					
tart 2.569000 GHz Res BW 100 kHz		300 kHz	Sweep 1.	top 2.571000 GHz 000 ms (1001 pts)	CF Sto 200.000 k Auto M					
28 72002 1132 500 1 N 1 f 2 N 1 f 3	2.570 000 GHz 2.570 020 GHz	-16.21 dBm -13.64 dBm	NOTION FUNCTION WOTH	FUNCTION VALUE	FreqOffs					
4 5 6 7 8 9 0 0					0					

#### Band7_10MHz_QPSK_50_0_LowCH20800-2505

							nam Analyzer -	t Specb		
Frequency	02:18:19 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWWW	Type: Log-Pwr	A	Trig: Free Run	PNO: Wide ==	50 D DC	10 5		L	R
Auto Tune	2.500 000 GHz -22.48 dBm	Mkr1		#Atten: 30 dB	IFGain Low	et 14.1 dB	Ref Offset Ref 30.0	v	B/div	10 d
Center Free 2.50000000 GH							-	_		.og 20.0 10.0
Start Fred 2.499000000 GHz	-10.00 dDm	~		¹				~		0.00 -10.0 -20.0 -30.0
Stop Free 2.501000000 GH										40.0 50.0 60.0
CF Stej 200.000 kH Auto Ma	top 2.501000 GHz 000 ms (1001 pts)	Sweep 1.	FUNCTION	300 kHz	#VB	z	000 GHz 00 kHz		s B	Re
Freq Offse 0 H				-22.48 dBm	0 000 GHz	2.50	1	1	N	12345
										6 7 9 10
		STATUS						-	_	< []

#### Band7_10MHz_QPSK_50_0_HighCH21400-2565

Keysight Spectrum Analyzer - S					#- <b>-</b>
RL 10 50	PND: Wide =	Trig: Free Run	Avg Type: Log-Pwr	02:26:52 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
Ref Offset 1 0 dB/div Ref 30.00	IFGain:Low	#Atten: 30 dB	Mkr1	2.570 000 GHz -24.15 dBm	Auto Tun
og 20.0 10.0					Center Fre 2.570000000 GH
20.0	maro	nor in the second		-13.03 d3m	Start Fre 2.569000000 GH
10.0 50.0					Stop Fre 2.571000000 GH
tart 2.569000 GHz Res BW 100 kHz	#VB	W 300 kHz	Sweep 1.	top 2.571000 GHz 000 ms (1001 pts)	CF Ste 200.000 ki Auto Mi
1 N 1 f 2 3	2.570 000 GHz	-24.15 dBm	CTION FUNCTION WOTH	FUNCTION VALUE	FreqOffs
4 5 6 7 8				6	01
9					

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488



#### Band7_15MHz_QPSK_1_0_LowCH20825-2507.5

RL		am Analyzar	SO DC			UNSE: INT		ALIGN AUTO		PM Aug 13, 2018	Frequency
				PND: Wide	Trig: Fr			d: 100/100	T	CE 123456 PE A WWWW	Frequency
				IFGain:Low	#Atten:	30 dB		Mkr1	-	000 GHz	Auto Tun
			t 14.1 dB 00 dBm							56 dBm	
20.0			_	_	_	-	_	-			Center Fre
10.0					-	-		/			2.500000000 GH
10.0					().55K	1		Mary			
10.0					n der & Alloho	American	Astron .	1		-13.00 001	Start Fre
20.0 30.0	why	NWWWW	www.hw	Martin Star	~~~						2.499000000 GH
40.0			_	_	_		_	-	-		Stop Fre
60.0		-	-			-	_		-	-	2.501000000
60.0		-	-			-		-			2.001000000 00
		00 GH2	z				_			1000 GHz	CF Ste
		0 kHz		#V	BW 620 kH	-				(1001 pts)	Auto Ma
MRB MO	DE TRE	-	X	0 000 GHz	11055		UNCTION	UNCTION WRITE	FUNCT	ION VALUE /	Contra Co
2 N		1		9 996 GHz	-14.056 c	Bm					
3 N		t	2.49	9 942 GHz	-13.686 c	Bm					Freq Offse
4 N		1	2.49	9 926 GHz 9 910 GHz	-13.264 c	Bm					0 H
6 N		1	2.49	9 888 GHz	-13.320 0	Bm					
7			A.492	O OOD STILL	-10.040	- Contraction					
8		_				_					
10	++	-				-					
11											
•			_								
53								STATU	IS .		

SD D DC		SENSE: IN		ALIGN AUTO	02:13:19 PM	Aug 11, 2018	Frequency
	PNO: Wide -		Avg Typ Avg Hole	d: 100/100	THAC	123456	Frequency
Offset 14.1 dB		#Atten: 30 dB		Mkr1	2.570 0	00 GHz	Auto Tun
							Center Fre 2.570000000 GH
24	1. Martin	mon how	montering		trunty	-1300 dans	Start Fre 2.569000000 GH
							Stop Fre 2.571000000 GH
	#VB	W 620 kHz*	FUNCTION	Sweep 1	1.000 ms (1	001 pts)	CF Ste 200.000 ki Auto Mi
		-14.372 dBm -13.709 dBm				_	Freq Offs 0 F
	Offset 14.1 dB 30.00 dBm	PNO: Wide - IFGaint.Cov 2000 dBm	PNO: Wide         Trig: Free Run #Histen: 30 dB           Dftset 14.1 dB         30.00 dBm           Dftset 14.1 dB         1.2           GHz         #VBW 620 kHz*           2.670 000 GHz         -1.4.372 dBm	PNO. Wide         Trig: Free Run         Avg Ty           If Cells.Low         Extent 30 dB         Avg Iyle           Offset 14 1 dB         It         It           Wide         1/2         It           Wide         It         It           Wide         It         It           Wide         It         It           Wide         It         It           It         It         It <td>PNO: Wide         Trig: Free Run         Avg Type: RMS           if Celerizor         Trig: Free Run         Avg Type: RMS           one of the celerizor         Extent 30 dB         Mkr1           0.00 dBm         Mkr1         Mkr1           0.00 dBm         1,2         Mkr1           0.00 dBm         1,2         Mkr1           0.00 dBm         1,2         Step: 10000           0.00 dBm         1,2         Step: 10000</td> <td>PNO: Wide         Trig: Free Run BreamLow         Avg Type: RNS AvgHold: 100100         Trig: Trig: Free Run AvgHold: 100100         Trig: Trig: Free Run BreamLow         Avg Type: RNS AvgHold: 100100         Trig: Trig: Trig: Free Run BreamLow         Mkr1 2.570 00 -14.37           Office II 1 dB         III         IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td> <td>PNO: Wide         Trig: Free Run Breaml.ow         Avg Type: RMS Avg/Hold: 100100         Tricc [12:3:4:5: Tricc] * 12:3:4:5: Tricc] * 12:3:4: Tricc] * 12:3:5: Tricc] * 12:3:5:</td>	PNO: Wide         Trig: Free Run         Avg Type: RMS           if Celerizor         Trig: Free Run         Avg Type: RMS           one of the celerizor         Extent 30 dB         Mkr1           0.00 dBm         Mkr1         Mkr1           0.00 dBm         1,2         Mkr1           0.00 dBm         1,2         Mkr1           0.00 dBm         1,2         Step: 10000           0.00 dBm         1,2         Step: 10000	PNO: Wide         Trig: Free Run BreamLow         Avg Type: RNS AvgHold: 100100         Trig: Trig: Free Run AvgHold: 100100         Trig: Trig: Free Run BreamLow         Avg Type: RNS AvgHold: 100100         Trig: Trig: Trig: Free Run BreamLow         Mkr1 2.570 00 -14.37           Office II 1 dB         III         IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	PNO: Wide         Trig: Free Run Breaml.ow         Avg Type: RMS Avg/Hold: 100100         Tricc [12:3:4:5: Tricc] * 12:3:4:5: Tricc] * 12:3:4: Tricc] * 12:3:5: Tricc] * 12:3:5:

Band7_15MHz_QPSK_1_74_HighCH21375-2562.5

# Band7_15MHz_QPSK_75_0_LowCH20825-2507.5

02:07:21 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW	ALIGN AUTO Type: Log-Pwr	A	Trig: Free Rur	NO: Wide	p	50	1Ú.	-	RI	
	Ref Offset 14:1 dB Mkr1 2:500 000 GHz dB/div Ref 30:00 dBm -23:56 dBm									
									og 20.0	
-13.00 dDm	and the second		non man				~		1.00 10.0 20.0	
	_								40.0 50.0	
00 ms (1001 pts)	Sweep 1.	EUNCTION	620 kHz	#VBV		KHz	200	s BW	Re	
			-23.66 dBm	IO GHZ	2.500 00					
									7 8 9 0	
	2.500 000 GHz -23.56 dBm	rmace[2]23335 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]23355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355 rmace[2]2355	Avg Type: Log-Pwr Trace [2:3:3:5: Trace [2:3:3:5:] Trace [2:3:5:] Trace [2:3:5:]	Avg Type: Log-Pwr         Tridig: Free Run Avg Type: Log-Pwr         Tridig: Tridi: Tridig: Tridig: Tridig: Tridi: Tridig: Tridig: Tr	Wilds         Trig: Free Run eArten: 30 dB         Avg Type: Log-Pwr         Trico [12:3:3:5:4: Trico [12:3:3:5:4: MKr1 2:500 000 GHz -23.56 dBm           MKr1 2:500 000 GHz -23.56 dBm         1000 000 GHz 1000 000 000 000 000 0000 0000 0000 00	B         DC         SERVER INT         Avg Type: Log-Pwr         Index 1, 2, 3, 4, 5, 5, 7, 6, 7, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	Stor         Store         Store         Calibration         Calibration<	Avg Type: Log-Pwr         Trig: Free Run Trig: Free Run Ref 30.00 dBm         Avg Type: Log-Pwr         Trig: Free Run Trig: Ref 200 dBm           Ref 0ffset141 dB Ref 30.00 dBm         Mkr1 2.500 000 GHz -23.56 dBm         -23.56 dBm           9000 GHz 200 kHz         #VBW 520 kHz         Stop 2.501000 GHz Sweep 1.000 ms (1001 pts)	BP         Sold         Instruction         Augustant         Augustant         Build and table an	

#### Band7 15MHz QPSK 75 0 HighCH21375-2562.5

Reysight Spect	trum Analyzer - Swept SA		ALTON AUTO							
KL I		Wide Trig: Free Run	Avg Type: Log-Pwr	02:14:00 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Frequency					
	Ref Offset 14.1 dB Mkr1 2.570 000 GHz									
	Ref 30.00 dBm			-25.74 dBm						
0.0					Center Fr 2.570000000 G					
.00										
0.0	Volu	mannan		-13.03 dDm	Start Fr 2.569000000 G					
0.0										
0,0					Stop Fr 2.571000000 G					
tart 2.569 Res BW 2		#VBW 620 kHz	Sweep 1	Stop 2.571000 GHz .000 ms (1001 pts)	CF St 200.000 k					
	f 2.570 000		FUNCTION FUNCTION WOTH	FUNCTION VALUE	Auto M					
2 3 4 5	2.570 000	-20./4 UBM			Freq Offs 0					
6 7 8										
9										
-		"	STATU							

#### Band7_20MHz_QPSK_1_0_LowCH20850-2510

A	01:46:23 PM Aug 13, 2018	ALIGN AUTO		SENSE:		DC	Analyzer - Sive	frection of		R
Frequency	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Type: RMS Hold: 100/100		1	NO: Fast ++		1.50.15	1 10		
Auto Tun				#Atten: 30 dB	Gain:Low					_
	2.500 000 GHz -17.821 dBm	MKr1					f 30.00 c		B/div	D dl
Center Fre		-								20.0
2.500000000 GH										0.0
Start Fre	-13.00 42m	nophermater	للولوم دي	1.						0.0
2.499000000 GH			MAY 14	Martha	with	Merrindy	addina			0.0
							Anda 1	helper	APY	0.0
Stop Fre 2.501000000 GH		-							⊢	50,0
										50,0
CF Ste 200.000 kH	top 2.501000 GHz 000 ms (1001 pts)			1.0 MHz*	#VB		0 GHz kHz	9900 V 300		
Auto Ma	FUNCTION WALLE	EUNCTIONWOTH	FUNCTION	Ť.		x		160 500		
Freq Offse				-17.821 dBm	0 GHz	2.500.000		1 1	N	23
OH								-	-	4 5
										67
					-			_	-	8 9 0
					-		-		_	1
		STATUS								s

#### Band7_20MHz_QPSK_1_99_HighCH21350-2560

							knalyzar - Sw			
Frequency	01:58:16 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVDP A 0014040	Auton Auto Avg Type: Log-Pwr		Trig: Free R			50 0	10	L	R
Auto Tur	2.570 000 GHz -17.08 dBm	Mkr1		#Atten: 30 d	NO: Fest Sein:Low	1FC	Offset 14		B/div	0 d
Center Fre 2.570000000 GH			_					/	-	og 20.0 10.0
Start Fre 2.569000000 GH	-13 00 des	Almer and and the second		town	H****					1 00 10 0 10 0 20 0 30 0
Stop Fre 2.571000000 GH			_							40.0 50.0
CF Ste 200.000 kF Auto Ma	top 2.571000 GHz .000 ms (1001 pts)		ELINC	1.0 MHz	#VE	*		6900 / 300	s BV	Re
Freq Offs 0 F				-17.08 dBm -14.77 dBm	0 GHZ 4 GHZ	2.570 00		1 1	NN	1234567
				*						8 9 10 11
		STATUS								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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司



#### Band7 20MHz QPSK 100 0 LowCH20850-2510

Keysight Spectrum Ana					
RL IU	50 D DC	Trig: Free Run	Aug Type: Log-Pwr	01:47:22 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWWW DET A NNNNN	Frequency
10 dB/div Ref 3	ffset 14.1 dB 30.00 dBm	#Atten: 30 dB	Mkr1	2.500 000 GHz -24.28 dBm	Auto Tun
20.0 10.0 0.00					Center Fre 2.500000000 GH
10.0 20.0 30.0		1	Manalana matanana	-13.00 dDn	Start Fre 2.499000000 GF
40.0 60.0 60.0					Stop Fre 2.501000000 GH
Start 2.499000 ( Res BW 300 ki		SW 1.0 MHz	Sweep 1	top 2.501000 GHz .000 ms (1001 pts)	CF Ste 200.000 ki Auto M
1 N 1 f 2 3	2.500 000 GHz	-24.28 dBm	NCTION FUNCTION WOTH	FUNCTION VALUE	Freq Offs
4 5 7 8 9					0)
10 11 4			STATU		

0.0								knalyzer -	ectrum III		R
Frequency	MAug 13, 2018 2E 1 2 3 4 5 6 PE A WWWWW	TRAC	Type: Log-Pwr		Trig: Free Run	PNO: Fast	n pc	51	10	-	ĸ
		-			#Atten: 30 dB	IFGein:Low					
Stop         Frequency           Auto Tun         Center Fre           2.57000000 GH         Start Fre           2.56900000 GH         Stop Fre           2.57100000 GH         CF Step           2.57100000 GH         Mato           CF Step         200.000 KH           Auto         Mato           Freq Offse         0 H	68 dBm		Mkr1				14.1 dB 0 dBm			B/div	
Center Fr		-									0.0
			_	_		-	_		_		0.0
			-			-	-		~		.00
	-13.00 dDm				1						0.0
2.569000000 G					Ren	all all and a series	and the second s				0.0
Stop Er							-		_		0,0
				-							0.0
											0.0
CF St 200.000 k	1000 GHz 1001 pts)	top 2.57	Sweep 1		1.0 MHz	#VB		GHz kHz	300		
Auto M			EUROPHWORE	FUNCTION	¥.		×	_	20 EQ		
					-24.68 dBm	000 GHz	2.570		1 1	N	2
											3
	-					_			-	-	5
						_				-	78
	_									-	9
			-						-		

# Band7 20MHz QPSK 100 0 HighCH21350-2560

# Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7

Keysight Spectrum Analyzer - Swe RL IIF 50 D			ALIGN AUTO		
Center Freq 699.000	000 MHz	Trig: Free Run	Avg Type: Log-Pwr	03:26:23 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 Type A Manual A	Frequency
	PNO: Wide H IFGain:Low	#Atten: 30 dB		DET A NNNNN	
Ref Offset 13. 10 dB/div Ref 30.00 d	1 699.000 MHz -26.79 dBm	Auto Tune           Center Freq           699.00000 MHz           Start Freq           696.00000 MHz           Stop Freq           700.00000 MHz           CF Step           200.000 MHz			
20.0					
10.0 10.0 20.0		1		-1300 401	
30.0 40.0 50.0	~~~~~	mar			
Start 698.000 MHz Res BW 20 kHz	#VBI	N 62 kHz		Stop 700.000 MHz .200 ms (1001 pts)	200.000 kH
1 N 1 f 2 3 4 5	699.000 MHz	-26.79 dBm			
6 7 8 9					
10 11					
150			STATUS		

#### Band12 1 4MHz QPSK 1 5 HighCH23173-715.3

-00-		ALIGN AUTO					nalyzar - Sive	trum Ar	ight Spect	Right
Frequency	03:34:23 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	Type: Log-Pwr	A	SENSE:1	AHz		16.000		er Fre	
	DET A NNNNN		•	Trig: Free Ru #Atten: 30 dB	PMD: Mida			-		
Auto Tu	1 716.000 MHz -20.94 dBm	Mkr					Offset 13 30.00 c			) dB
Center Fr										0g
716.000000 Mi					m					0.0
				1	1	-		-		1.00
StartFre	-13.00 dDm	_		1-				-		0.0
715.000000 MI				~			and the second			0.0
		-	m	-		-		-		0.0
Stop Fr	mommon	manno	2					+		0.0
717.000000 MI	Same and the	mas						+		0.0
										0.0
CF Ste 200.000 ki Auto M	Stop 717.000 MHz 200 ms (1001 pts)	Sweep 6.		62 kHz	#VBW				715.0 BW 2	
Auto M	FUNCTION VALUE	FUNCTION WOTH	FUNCTION	-20.94 dBm	5.000 MHz	× 716			N 1	
Freq Offs									-	2
01									-	4
										6
								$\square$	-	8
									+	0
					-		_	1 1	+	1
		STATUS								a

#### Band12_1_4MHz_QPSK_6_0_LowCH23017-699.7

					ectrum Analyzer	Keysight Spi R L
Frequency	03:27:15 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	vg Type: Log-Pwr	SENSE:3NT	DOODOO MHz		
Auto Tur	DET A NNNNN		#Atten: 30 dB	PNO: Wide IFGain/Low		
Auto Tur	1 699.000 MHz -28.87 dBm	Mkr			Ref Offset Ref 30.0	dB/div
Center Fre						1.0
Start Fre	-13.00 dDr		ſ			
698.000000 MH			15			0
Stop Fre 700.000000 MH						
CF Ste	top 700.000 MHz				.000 MHz	
200.000 kH Auto Ma	200 ms (1001 pts)	Sweep 6.		×	20 kHz	
Freq Offs 0 F			-28.87 dBm	699.000 MHz	1 1	N 1
		STATUS				1

#### Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3

Keynight Spectrum A					-0- 4-
Center Freq 7	16.000000 MHz	Trig: Free Run	Avg Type: Log-Pwr	03:34:49 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 Type A usuality	Frequency
10 dB/div Ref	PNO: Wide IFGeinLow Offset 13.6 dB 30.00 dBm		Mk	1 716.000 MHz -23.48 dBm	Auto Tun
20.0 10.0					Center Fre 716.000000 MH
-10.0 -20.0 -30.0		had the second		-13 00 dDn	Start Fre 715.000000 MH
40.0 50.0 60.0					Stop Fre 717.000000 MH
Start 715.000   Res BW 20 k	Hz #VI	BW 62 kHz		Stop 717.000 MHz .200 ms (1001 pts)	CF Ste 200.000 kH Auto Ma
1 N 1 f 2 3 4 5 6 6 7 8 9 9 10	716.000 MHz	-23.48 dBm		6	Freq Offse
11					
85G			STATUS		

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司



# Report No.: E2/2018/70055 Page 201 of 497

#### Band12 3MHz QPSK 1 0 LowCH23025-700.5

				ectrum Analyzer	
	Avg Type: Log-Pwr	Trig: Free Run	50 D DC 0000000 MHz PNO: Wide ==		enter F
Mkr1 699.000 MHz -17.61 dBm	Mkr	#Atten: 30 dB	IFGain/Low	Ref Offset Ref 30.0	0 dB/div
Center Fre 699.000000 MH					20.0 10.0
-13 00 dDn 5960.000000 MH	ha	~12			10.0 20.0 30.0
Stop Fre 700.000000 MH				~~~	40.0 50.0
Stop 700.000 MHz reep 1.667 ms (1001 pts) Auto Ma		120 kHz			Res BW
Freq Offse		-17.61 dBm	699.000 MHz	1 1	1 N 1 23 4 5 6 7
					8 9 10 11
ETATUS	STATUS				53

		_	<u> </u>						n Amalyzar - 1	pectru		
Frequency	TRACE 1 2 3 4 5 6	0 03:23: vr	pe: Log-Pwr	Avg	ENSE IN	1	Hz	00000 N		Free		l R Cen
Auto Tu	6.000 MHz 15.46 dBm		Mk			#Atten:	PNO: Wide IFGain:Low		of Offset		B/div	10 di
Center Fr 716.000000 M						1	1	_				og 20.0 10.0
Start Fr 715.000000 M	-13 00 dDa				1_				~~~		~	
Stop Fr 717.000000 M	m	mm		~				_				0.0
CF St 200.000 F Auto	717.000 MHz ns (1001 pts)	1.667 m	Sweep 1	UNCTION		V 120 kH		×		V 39	s Bl	Re
Freq Off 0					1Bm	-15,46 c	000 MHz	710		1	N	123456
												7 8 9 0
		tus	STATU							_	_	50

# Band12_3MHz_QPSK_1_14_HighCH23165-714.5

#### Band12_3MHz_QPSK_15_0_LowCH23025-700.5

					Analyzer - Swept SA		
Frequency	03:10:57 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	Autok Auto Avg Type: Log-Pwr	sense::nr		50 D DC	r Freq 6	RL enter
Auto Tun	1 699.000 MHz -26.66 dBm	Mkr	Atten: 30 dB	PNO: Wide	f Offset 13.6 dB f 30.00 dBm		) dB/di
Center Fre 699.000000 MH							0.0
Start Fre 698.000000 MH	-13.00 4211		_				0,0
Stop Fre 700.000000 MH							0.0
CF Ste 200.000 kH Auto Ma	Stop 700.000 MHz 667 ms (1001 pts)			#VBV	Hz	98.000 M 3W 39 kH	Res B
Freq Offse 0 H	+		6.66 dBm	9.000 MHz		1 1	1 N 2 3 4 5 6 7 8 9
	· ·	STATUS				1	0

#### Band12 3MHz QPSK 15 0 HighCH23165-714.5

	Spectrum A	malyzer - Sve	upt SA							-c- 4 🖉
RL	10	50 12	DC		SENSE:		ALIGN AUTO	03:23:37 PM	Aug 13, 2018	Frequency
Center	Freq 7	16,000	000 MH	Z	Trig: Free Ru	Av	g Type: Log-Pwr	TYPE	123456	requeries
			IF	NO: Wide	#Atten: 30 dE	3		DET	ANNNNN	
10 dB/div		Offset 13 30.00 c					Mk	r1 716.00 -23.1	00 MHz 7 dBm	Auto Tur
20.0										Center Fre
10.0										716.000000 M
0.00										718.000000 M
-1D,D					1		_		-13.00 dDm	Start Fr
20.0					-			-		715.000000 M
30.0										
40.0	-							-		Stop Fr
60.0	-								_	717.000000 M
60.0								-	_	
Start 71								Stop 717.	000 MHz	CF Ste
Res BV				#VBW	120 kHz			1.667 ms (1		200.000 k Auto M
MRR MODE	1 f		716.00		-23.17 dBm	PUNCTION	FUNCTION WOTH	EUNCTIO	N WALUE	CMAR III
2	1 1		/16.00	0 MHZ	-23.17 dBm				_	
3 4							-			Freq Offs
5										
7									_	
8	_								_	
10										
11	-	-		-			+			
50							STATU	s		

#### Band12_5MHz_QPSK_1_0_LowCH23035-701.5

Keysight Spectrum Analyzer - Swept SA				
RL IV 50 D DC Center Freq 699.000000 I	MHz PNO: Wildo alter Trig: Free Run	Aug Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm	PND: Wide Trig: Free Run IFiSeiniLow #Atten: 30 dB		99.000 MHz -21.42 dBm	Auto Tun
-og 20.0 10.0				Center Fre 699.000000 MH
10.0 20.0 30.0			-1300 dDm	Start Fre 698.000000 MH
40.0			[	Stop Fre 700.000000 MH
Start 698.000 MHz #Res BW 51 kHz	#VBW 150 kHz	Sweep 1.000		CF Ste 200.000 kH Auto Ma
I         N         1         f         69           2	99.000 MHz -21.42 dBm			Freq Offse 0 H

#### Band12_5MHz_QPSK_1_24_HighCH23155-713.5

	02:07:41 PM Aug 13, 2018	ALIGN AUTO		SENSE:1		yzer - Swept SA	ectrum Anal		EM Ka
Frequency	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Avg Type: Log-Pwr		1	AHz PNO: Wide *	6.000000 N			
Auto Tur				#Atten: 30 dB	IFGain Low				
Auto Tu	1 716.000 MHz -21.42 dBm	Mki				fset 13.6 dB 0.00 dBm		B/div	
Center Fre									20.0
716.000000 MH						-	-		10.0
	-13.00 40m			5					10.00
Start Fre 715.000000 Mi	1.5.65 42.1			1			s		20.0
			0. 0	~				~	-30.0
Stop Fre		The					-		40.0
717.000000 MH									60.0
CF Ste	Stop 717.000 MHz					Hz	.000 M	rt 715.	Sta
200.000 kH	.000 ms (1001 pts)			150 kHz	#VB		51 kHz		_
LINKS III	FUNCTION WALVE	ON FUNCTION WOTH	FUN	-21.42 dBm	5.000 MHz	× 716		N 1	1
Freq Offs								-	2
01			-		-			-	4
							$\pm$	-	678
								-	9 10
	· ·						+ +	-	11
		STATUS							ISG

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488



#### Band12_5MHz_QPSK_25_0_LowCH23035-701.5

-c\$						alyzer - Swept SA			
Frequency	02:52:28 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWW DET A NNNNN	Type: Log-Pwr	A	Trig: Free Run	Hz	50 D DC	req 6		Cen
Auto Tur	699.000 MHz -27.05 dBm	Mkr		#Atten: 30 dB	PNO: Wide IFGain:Low	offset 13.6 dB 30.00 dBm		B/div	10 d
Center Fre 699.000000 MH									20.0 10.0
Start Fre 698.000000 MH	-43.00 dDm		_	•1-			_		0.00 -10.0 -20.0 -30.0
Stop Fre 700.000000 MH									40.0 60.0
CF Ste 200.000 kF Auto Ma	top 700.000 MHz 00 ms (1001 pts)	Sweep 1.	FUNCTION	150 kHz		iz ×	.000 M 51 kH	s BW	#Re
Freq Offs 0 F				-27.05 dBm	.000 MHz	69	1	N	1234567
									8 9 10 11
		STATUS							85G

	trum Analyzer - Sw					
RL Enter En	eq 716.000		SENSE:INT	Aug Type: Log-Pwr	03:08:34 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	Frequency
oner m	eq / 10.000	PNO: Wide - IFGain Low	#Atten: 30 dB		DET A NNNNN	
0 dB/div	Ref Offset 13 Ref 30.00			Mk	1 716.000 MHz -26.30 dBm	Auto Tur
20.0						Center Fre 716.000000 Mil
0.0			1		-12.00 dDm	Start Fr 715.000000 M
30.0 10.0						Stop Fr
tart 715.0					Stop 717.000 MHz	717.000000 M
Res BW 3	51 kHz	×			.000 ms (1001 pts)	CF St 200.000 k Auto M
1 N 1 2 3 4 5	1	716.000 MHz	-26.30 dBm			Freq Offs 0
6 7 8 9 0						
			**	1		
80				STATUS		

Band12_5MHz_QPSK_25_0_HighCH23155-713.5

# Band12_10MHz_QPSK_1_0_LowCH23060-704

0 0 2					strum Analyzer - Swept SP	Keysight Spe					
Frequency	02:41:58 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Avg Type: Log-Pwr	Trig: Free Run	DOO MHz PNO: Wide	req 699.00000						
Auto Tune		Ref Offset 13.6 BB 447.75 dBm -17.75 dBm -17.75 dBm									
Center Free 699.000000 MH						og 20.0 10.0					
Start Free 698.000000 MH	ניסגיסע כו-	and the second s	None Contraction			20.0					
Stop Free 700.000000 MH				~~~~~		10.0 50.0 50.0					
CF Stej 200.000 kH Auto Ma	Stop 700.000 MHz 000 ms (1001 pts)			#VBW	C  SCI.	Res BW					
Freq Offse 0 H			-17.75 dBm	699.000 MHz	1	1 N 1 2 3 4 5 6					
						7 8 9 10 11					
		STATUS				50					

#### Band12_10MHz_QPSK_1_49_HighCH23130-711

Frequency	02:48:30 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	ALIGN AUTO		SENSE:1	DOO MHz	50 0	III		R
	DET A NNNN			#Atten: 30 dB	PNO: Wide	10.000	req	Let r	en
Auto Tur	1 716.000 MHz -15.45 dBm	Mkr				Offset 13. 30.00 d		B/div	0 di
Center Fre 716.000000 MH					-	1			20.0
Start Fre 715.000000 MH	-13.00 dDn		a van	· ····································	and the second		and the	-	1.00 10.0 20.0
Stop Fre 717.000000 Mi	mm	m							40.0 50.0
CF Ste 200.000 ki Auto M	Stop 717.000 MHz .000 ms (1001 pts)	Sweep 1.		W 300 kHz	#VE	kHz	5.000 / 100	s BV	Re
	FUNCTION VALUE	NOTION WOTH	FUNCTION	-15.45 dBm	716.000 MHz		HC 500		1
Freq Offs 01							-	1	234567
									7 8 9 0
							-	-	4

#### Band12_10MHz_QPSK_50_0_LowCH23060-704

	02:43:07 PM Aug 13, 2018	ALTON AUTO		SENSE:10		DC DC	nalyzar - Sw 50 G	ictrum A		R
Frequency	TRACE 1 2 3 4 5 4	pe: Log-Pwr	Avg	Trig: Free Rur		000 MHz				
Auto Tun	DET A NNNN N			#Atten: 30 dB	Wide					
AutoTun	1 699.000 MHz -26.60 dBm	Mkr					Offset 13 30.00		B/div	0 dl
Center Fre 699.000000 MH										20.0
Start Fre 698.000000 MH	-13.00 dDn		~~~	~ in				-	_	
Stop Fre 700.000000 MH								~		0.0
CF Ste 200.000 kH Auto Ma	Stop 700.000 MHz 000 ms (1001 pts)		-UNCEDIN	00 kHz	#VBW	×	kHz	100	t 698. s BW	Re
Freq Offse 0 H				26.60 dBm	MHz	699.000			N 1	12345
									+	6 7 8 9 10

#### Band12_10MHz_QPSK_50_0_HighCH23130-711

								Analyzer - Siv			
Frequency	MAug 13, 2018 CE 1 2 3 4 5 6	TRAC	ype: Log-Pwr	A	rig: Free Rur	Wide	000 MHz		Freq		en
Auto Tur	00 MHz 57 dBm	r1 716.0	Mk		Atten: 30 dB	in:Low	IFG 6 dB	f Offset 13		B/div	
Center Fre 716.000000 Mi										_	-og 20.0 10.0
Start Fre 715.000000 Mi	-13.00 dDa			~~~~~	mt.	L.	1				10.0 20.0 30.0
Stop Fre 717.000000 Mi										_	40.0 50.0 60.0
CF Ste 200.000 ki Auto Mi		.000 ms (	Sweep 1		0 kHz	#VBW		MHz kHz	/ 100	s BV	Re
FreqOffs	ON WALUE	FUNCTO	FUNCTION WOTH	FUNCTION	5.67 dBm	MHz	× 716.000		1 f	N	1 2 3
01											4 5 6 7
											8 9 10 11
		s	STATUS							_	*

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司



#### Band13 5MHz QPSK 1 0 LowCH23205-779.5

🗱 Keysight Spectrum Analyzer -					
Center Freq 777.0	000000 MHz	Trig: Free Run	Avg Type: Log-Pwr	03:53:27 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 10 dB/div Ref 30.0		#Atten: 30 dB	Mk	r1 777.000 MHz -20.31 dBm	Auto Tune
20.0 10.0					Center Free 777.000000 MH
-10.0		1-		-1300-401	Start Free 776.000000 MH
40.0 50.0	~~~~~				Stop Fre 778.000000 MH
Start 776.000 MHz #Res BW 51 kHz	×		Sweep 1	Stop 778.000 MHz .000 ms (1001 pts)	CF Ste 200.000 kH Auto Ma
1 N 1 f 2 3 4 5 6	777.000 MHz	-20.31 dBm			Freq Offse 0 H
7 8 9 10 11					
rso.			STATU	5	

Ref Offset 13	IFGain:Lo	#Atten: 30 d	un		TYPE A V	3456	
Ref 30.00			в	Mk	r1 787.000 -19.94	MHz	Auto Tuni
				_			Center Fre 787.000000 MH
		- '				00 dDn	Start Fre 786.000000 MH
							Stop Fre 788.000000 MH
00 MHz 1 kHz	#\	/BW 150 kHz	FUNCTION		1.000 ms (100	1 pts)	CF Ste 200.000 kH uto Ma
1	787.000 MHz	-19.94 dBm				.[	Freq Offs 0 F
	kHz	I kHz #\	1 kHz #VBW 150 kHz	I kHz #VBW 150 kHz T 787.000 MHz -19.94 dBm	I kHz #VBW 150 kHz Sweep 1	0 MHz Stop 78.000 1 KHz Stop 78.000 MHz Stop 78.000 7 787.000 MHz -19.94 dBm Fourtion Fourtion Store Convolution 1 Construction Store Convolution Store Convolution 1 Convolution Store Convolution Store Convolution 1 Convolution Store Convolution Store Convolution 1 Convolution Store Convolution Store Convolution Store Convolution 1 Convolution Store Con	I kHz #VBW 150 kHz Sweep 1.000 ms (1001 pts) 7 787.000 MHz -19.94 dBm FUCKION FUCKION FUCKION (1001 pts) 

Band13_5MHz_QPSK_1_24_HighCH23255-784.5

#### Band13 5MHz QPSK 25 0 LowCH23205-779.5

Frequency	TRACE 1 2 3 4 5 6	Log-Pwr	Avg Ty	SUNSE:INT	AHZ	reg 777.000000 M	RL Center Fi
	DET A NNNNN			Frig: Free Run Atten: 30 dB	PNO: Wide IFGain:Low		
Auto Tun	777.000 MHz -26.00 dBm	Mkr1				Ref Offset 13.6 dB Ref 30.00 dBm	10 dB/div
Center Fre 777.000000 MH							20.0
Start Fre 776.000000 MH	-13 00 dDn			-1-			10.0 20.0 30.0
Stop Fre 778.000000 MH							40.0 60.0 60.0
CF Stej 200.000 kH Auto Ma	op 778.000 MHz 0 ms (1001 pts)				#VBW		Start 776. #Res BW
Freq Offse 0 H	[			26.00 dBm	7.000 MHz	1 77	1 N 1 2 3 4
							6 7 8 9

#### Band13 5MHz QPSK 25 0 HighCH23255-784.5

	04:12:10 PM Aug 11, 2018	ALTON AUTO		SENSE:1			malyzer - Si 50 i	ictrum A		Key R1
Frequency	TRACE 1 2 3 4 5 6	Type: Log-Pwr		Trig: Free Ru	ИHz	0000 M				
	DET A NNNNN			#Atten: 30 dB	PNO: Wide					
Auto Tu	1 787.000 MHz -26.94 dBm	Mkr					Offset 1 30.00		3/div	0 dE
Center Fr										0g
787.000000 M										10.0
101,000000 11										0.00
	-13 00 401	_				_		_		1D.D
Start Fr 786.000000 M				1						20.0
100.000000 1			~	~	_			_		30.0
					_	-		_		40.D
Stop Fr 788.000000 M								-		50.0
788.000000 M		-			_	-		-		50.D
CF St	Stop 788.000 MHz								t 786	
200.000 k Auto M	.000 ms (1001 pts)			150 kHz	#VBW				s BW	_
	FUNCTION VALUE	FUNCTION WOTH	FUNC	-26.94 dBm	7.000 MHz	787			N	
Freq Offs								-	-	2
. 0									-	4
	1								-	6
									-	8
							_		-	9
	·							-	-	11
		STATUS								80

#### Band13_10MHz_QPSK_1_0_LowCH23230-782

	3 PM Aug 13, 2018		ALIGN AUTO		SENSE:1N				SI D	1UF		RL
Frequency	TYPE A WWWWW DET A NNNNN	THU	e: Log-Pwr	Avg	Free Run	Tria	NO: Wide -	Da				
Auto Tun					n: 30 dB	#Atte	Gain/Low	IFI				
Auto Tun	.000 MHz 5.19 dBm	(r1 777.) -15	Mk						Offset 13. 30.00 c		3/div	) dB
Center Fre				_	-	-				_		0.0
777.000000 MH		1	1		-	-	-			-		0.0
	100000		1	m	//81							0.0
Start Fre 776.000000 MH	-13.00 42.9				John	han						0.0
776.00000 MP				_	_	-	m			_		0.0
Stop Fre		-		_	_	-	-	m	and for			0.0
778.000000 MH		-	-	-	-	-	-		Na. Ca	ww	s nord	0,0
												0.0
CF Ste 200.000 kH	78.000 MHz s (1001 pts)	Stop 773	Sween 1		H7	W 300 k	#VB				t 776. BW	
Auto Ma			Check Man	HUNCTION		1000 1		×				_
					9 dBm 6 dBm	-15.1		777.00		1	N 1	1 2
Freq Offse					7 dBm	-14.0	4 MHz	776.95		1	N 1	3
01	•											5
							-					6 7 8
					-		_				-	9
				-	-				_	1 1	+	1
		JS	STATUS									a

#### Band13_10MHz_QPSK_1_49_HighCH23230-782

- 0- III -	the second second second second			Analyzer - Swept SA		
Frequency	03:39:58 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	Avg Type: Log-Pwr	Trig: Free Run	F 50 D DC	·	R
Auto Tur	1 787.000 MHz -14.91 dBm	Mkr	#Atten: 30 dB	PNO: Wide IFGainiLow f Offset 13.6 dB		l0 di
Center Fre 787.000000 Mi						og 20.0 10.0
Start Fre 786.000000 Mi	-13.03 42m	m	12 Marting			
Stop Fre 788.000000 Mi	mum	m				0.0
CF Ste 200.000 kit Auto M	Stop 788.000 MHz .000 ms (1001 pts)		W 300 kHz	kHz #VI	t 786.0 s BW 1	Re
Freq Offs 01	6		-14.91 dBm -13.33 dBm	787.000 MHz 787.030 MHz	N 1 N 1	1234567
						8 9 10
	1	STATUS				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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488

#### Band13 10MHz QPSK 50 0 LowCH23230-782

				ulyzar - Swept SA		
Frequency	03:40:14 PMAug 13, 2018 TRACE 1 2 3 4 5 6	Avg Type: Log-Pwr	SUMSE:DUT	77.000000 MHz		enter F
Auto Tun	1 777.000 MHz -24.12 dBm	Mk	#Atten: 30 dB	PNO: Wide IFGein Low		
Center Fre 777.000000 MH				30.00 dBm	Ref 30.0	0.0 dB/div
Start Fre 776.000000 MH	-13 00 dDn	www.	l			0.0
Stop Fre 778.000000 MH						0.0
CF Ste 200.000 kH Auto Ma	Stop 778.000 MHz .000 ms (1001 pts)	Sweep 1		Hz #VE	5.000 MHz / 100 kHz	Res BW
Freq Offse 0 H			-24.12 dBm	777.000 MHz	1 1	1 N 2 3 4 5 6 7
						8 9 0 1
		STATU				a

Ref Offset 13.6 dB         Mkr1 787.000 MHz           20	Frequency
Normalize         Program	
0 eBlaiv Ref 30.00 dBm -24.61 dBm -24.61 dBm - 24.61 dBm - 25.00 d	
300 100 100 100 100 100 100 100	Auto Tu
1	Center Fr 787.000000 M
00 00 00 00 00 00 00 00 00 00 00 00 00	Start Fr 786.000000 M
	Stop Fr 788.000000 M
Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) Automatical Examples and the second sec	CF Sto 200.000 k
N         1         7         787.000 MHz         -24.61 dBm           4         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Freq Offs 0
a status	

Band13_10MHz_QPSK_50_0_HighCH23230-782

# Band14_5MHz_QPSK_1_0_LowCH23305

MHZ	ALIGN AUTO 02:59:00 PM Aug 22 Avg Type: Log-Pwr TRACE 1 2 3	45.6 Frequency
PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB	DET A N	
	Mkr1 788.000 N -19.60 d	
		Center Free 788.000000 MH
1=4		Start Free 787.000000 MH
~		Stop Free 789.000000 MH
#VBW 150 kHz	Stop 789.000 Sweep 1.000 ms (1001	pts) 200.000 kH
88,000 MHz -19.60 dBm		Freq Offse
	#GainLow #Atten: 30 dB	PRO: Wide - Frig: Free Run PrG: Wide

#### Band14 5MHz QPSK 1 24 HighCH23355

-00-	30 PM Aug 22, 2018		ALTON AUTO		SENSE:1			n Analyzar - S			R R
Frequency	TRACE 1 2 3 4 5 6	1	pe: Log-Pwr		56166:1		0000 MHz				
	DET A NNNNN			'	Trig: Free Ru #Atten: 30 dB	O: Wide	PN	130,00	164	101 1	-01
Auto Tu	8.000 MHz 21.19 dBm	r1 798 -2	Mki				8.6 dB dBm	ef Offset 1 ef 30.00	R	B/div	l0 di
Center Fr						~	1		_		20.0
100.00000 11			-							-	0.00
Start Fr 797.000000 M	-13.00 dOn	-	-	_	1			~	~	0	10.0 20.0
				~~~~							30.0 40.0
Stop Fr 799.000000 M											60.0
CF Sto 200.000 k Auto M	799.000 MHz ns (1001 pts)	.000 m	Sweep 1		150 kHz	#VBW			51	s BV	Re
	ALICH VALUE	FOR	-CAGELON WOLF	FORCITON	-21.19 dBm	MHz	798.000		1 1	N	1
Freq Offs 0						_			-		3456
						-		-	+		6789
											10
			STATUS								50

Band14_5MHz_QPSK_25_0_LowCH23305

						Analyzer - Swept SA			
Frequency	03:00:31 PM Aug 22, 2018 TRACE 1 2 3 4 5 6 TVPE A WWWW DET A NNNNN	Type: Log-Pwr	Av	Trig: Free Run	AHz	50 R DC			
Auto Tune	1 788.000 MHz -25.68 dBm	Mkr		#Atten: 30 dB	IFGain/Low	Offset 13.6 dB f 30.00 dBm		B/div	
Center Free 788.000000 MH	-20.00 0.00					1 30.00 dBm	H		20.0 10.0
Start Free 787.000000 MH	-13.00 dDn		1	!					-10.0 -20.0 -30.0
Stop Free 789.000000 MH							_	-	-40.0 -50.0
CF Stej 200.000 kH Auto Ma	top 789.000 MHz 000 ms (1001 pts)		FUNCTION	150 kHz		Hz	V 51	rt 78 es BV	#Re
Freq Offse 0 H				-25.68 dBm	8.000 MHz	78	1	N	123456789
		STATUS							10 11 *

Band14_5MHz_QPSK_25_0_HighCH23355

		n Analyzer - Swept SA			BAL Ke
Avg Type: Log-Pwr	Trig: Free Run	798,000000 MHz	req 798		
Mkr	#Atten: 30 dB	PNO: Wide IFGein:Low			_
		ef Offset 13.6 dB ef 30.00 dBm		B/div	10 di
				-	20.0
					10.0
	1				10.0
	1-			-	20.0
					30.0
				-	60,D
					-60.0
Sweep 1.	BW 150 kHz		.000 MH 51 kHz		
FUNCTION FUNCTION WOTH	27.87 dBm				
				-	23
				-	4 5 6
				-	7
					9 10 11
		+ +		- +	끈
STATUS	EUNCTION FUNCT	-27.87 dBm	798.000 MHz -27.87 dBm	f 798.000 MHz27.87 dBm	N 1 1 798.000 MHz -27.87 dBm

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488



Report No.: E2/2018/70055 Page 205 of 497

Band14_10MHz_QPSK_1_0_LowCH23330

Keysight Spectrum Analyzer - Swept SA				
RL IIF 50 D DC	PNO: Wide Trig: Free Rur	Avg Type: RMS	02:25:52 PM Aug 22, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	Frequency
Ref Offset 13.6 dB	IFGein:Low #Atten: 30 dB	Mk	r2 787.980 MHz -14.868 dBm	Auto Tun
20.0				Center Fre 788.000000 MH
0.0	21 Journal Contraction	www.ww	-1300.903	Start Fre 787.000000 Mi
0.0 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm				Stop Fro 789.000000 Mi
tart 787.000 MHz Res BW 100 kHz	#VBW 300 kHz*	Sweep 1	Stop 789.000 MHz .000 ms (1001 pts)	CF Ste 200.000 ki Auto M
1 N 1 f 78 2 N 1 f 78 3 4 5	8.000 MHz -14.309 dBm 7.980 MHz -14.868 dBm			Freq Offs 01
6 7 8 9 10				
50	*	ETATU		L

	MAup 22, 2018	01.10.00.00	ALTON AUTO		INST-INT			Swept SA	am Amalyzar -	t.Spectr	aysigh R L
Frequency		TRAC	RMS	Avg Typ			PNO: Wide	u pe j	in 12		
Auto Tur						#Atten: 3	FGain!Low				
Auto Tu	40 MHz 81 dBm	r2 798.0 -14.1	Mk						Ref Offset Ref 30.0		dB/di
Center Fre									/		-
798.000000 MH							\checkmark		/		
StartFre	-13.00 401				2	man	~~		1	~~	~
797.000000 MH				and the	m		-	-	-		0
		www.	www								
Stop Fre 799.000000 Mi	m	- 0 00					-	-	-		
CF Ste	000 MHz	Stop 799							0 MHz	07.0	
200.000 ki Auto Ma	1001 pts)	.000 ms (Sweep 1		*	V 300 kHz	#VB		0 kHz		
Auto ma	IN WALLIE	FUNCTO	DECOMPOSE	NCTION		-13,360 di	00 MHz	× 798	1		N
Freq Offs					Bm	-14.181 di	40 MHz		î	1	N
01					-		-		_		
	_				-						
					-		-		_		
					-		-		-		-
		s	STATU								

Band14_10MHz_QPSK_1_49_HighCH23330

Band14_10MHz_QPSK_50_0_LowCH23330

MHz	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB		DETANNNN	
			Auto Tun
			Center Fre 788.000000 MH
		-13.00 dan	Start Fre 787.000000 MH
			Stop Fre 789.000000 MH
#VBW 300 kHz	Sweep 1.000 n	ns (1001 pts)	CF Ste 200.000 kH uto Ma
88.000 MHz -23.21 dBm			Freq Offse 0 H
	PNO Wide Trg: Pree Run PRO Mide Trg: Pree Run #Xten: 30 dB	Avg Type: Log-Per PIC: Wide Trig: Free Run PiCeleLow Mide Trig: Free Run Avg Type: Log-Per Mkr1 78 	MHz PRO; Wids Trig: Free Run extent to other action: 10 off Avg Type: Log-Rwr Type: Log-Rwr Mkr1 788.000 MHz -23.21 dBm Mkr1 788.000 MHz -23.21 dBm -23.21 dBm #VBW 300 kHz Swep 1.000 ms (1001 pts)

Band14_10MHz_QPSK_50_0_HighCH23330

Frequency	TRACE 1 2 3 4 5 6	02:27:1	Log-Pwr	Aval	ENSE: IN	54	Ll-2	0000 MI	50	10	or Er	RI
	DET A NNNNN					#Atten: 3	PNO: Wide *		30.00	oq /	OI FI	-011
Auto Tu	8.000 MHz 23.67 dBm	r1 798 -2	Mk				in country of	3.6 dB	Offset 1 30.00		Vdiv	0 dE
Center Fr 798.000000 M							_					20.0 10.0
Start Fr 797.000000 M	-13 00 dDa				•1	·····	~~~~					10,0 20,0 30,0
Stop Fr 799.000000 M												40,0 50,0
CF Sto 200.000 k Auto M	799.000 MHz ns (1001 pts)	.000 m	Sweep 1		z	V 300 kHz	#VB		kHz	000 I 100 I	BW	Re
Freq Offs	INCTION VALUE	FUN	E TON WOTH	INCTION	1Bm	-23.67 d	000 MHz	× 798.0		1	N 1	1 2 3
0												4 5 6 7 8 9
	•		STATUS			**						1

Band17_5MHz_QPSK_1_0_LowCH23755

Keysight Spectrum Analyzer - Swept SA		and the second	-c4- 🛋
Center Freq 704.000000	MHz PNO: Wide Trig: Free Run	ALIGN AUTCI 04:45:42 PM Aug 13, 2018 Avg Type: Log-Pwr TRACE 1: 2: 3:4:5:6 Type: d www.ww	Frequency
Ref Offset 13.6 dB 10 dB/div Ref 30.00 dBm	IFGain:Low #Atten: 30 dB	Mkr1 704.000 MHz -22.03 dBm	Auto Tune
20.0 10.0			Center Fre 704.000000 MH
-10.0	1.22		Start Fre 703.000000 MH
40.0			Stop Fre 705.000000 MH
Start 703.000 MHz #Res BW 51 kHz	#VBW 150 kHz	Stop 705.000 MHz Sweep 1.000 ms (1001 pts)	CF Stej 200.000 kH Auto Ma
1 N 1 f 7 2 3 4 6	04.000 MHz -22.03 dBm		Freq Offse 0 H
7 8 9 10 11			
450		STATUS	

Band17_5MHz_QPSK_1_24_HighCH23825

						/zer - Swept SA			
Frequency	04:53:00 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	Avg Type: Log-Pwr	Run		MHz	50 D DC	req 71		Cen
Auto Tur	1 716.000 MHz	Mk		#Atten: 30	PNO: Wide IFGain:Low				
	-22.36 dBm	MIKI				set 13.6 dB 0.00 dBm		B/div	10 di
Center Fre					-		_	-	20.0
716.000000 Mi					/				10.0
StartFre	-13.00 dDm		1=	~	-	~	_		-1D,D
715.000000 MH			-				~	-	-20.0
		~~~~			_				40.0
Stop Fre 717.000000 Mi				-			-		-60.0
CF Ste 200.000 ki	Stop 717.000 MHz .000 ms (1001 pts)			W 150 kHz	#VE	12	000 MH 51 kHz		
Auto Ma	FUNCTION WALVE	ION FUNCTION WOTH		-22.36 dB	6.000 MHz	× 71		N 1	1
Freq Offs			-					-	2 3 4
01			-				++	-	5
									7
			-					-	9 10 11
									< [

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488



# Report No.: E2/2018/70055 Page 206 of 497

#### Band17 5MHz QPSK 25 0 LowCH23755

						lyzer - Swept SA			
Frequency	04:46:46 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	Type: Log-Pwr	+	SENSE:1	ИHz	50 R DC	req 70		Cen
Auto Tur	DET A NNNN N		n	Trig: Free Ru #Atten: 30 dB	PNO: Wide IFGain:Low				
AutoTur	704.000 MHz -29.15 dBm	Mkr				ffset 13.6 dB 30.00 dBm		B/div	10 d
Center Fre		_							20.0
704.000000 MH									10.0
Start Fre	-13 00 dDm		/						10,0
703.000000 MH			~	•1-	-			-	20.0
								~	30 0 40 0
Stop Fre 705.000000 MH		-					_	<u> </u>	60,0
									60.0
CF Ste 200.000 ki	top 705.000 MHz 00 ms (1001 pts)	Sweep 1.		150 kHz	#VBW		000 M 51 kH		
Auto Ma	FUNCTION WALUE	FUNCTION WOTH	FUNCTION	-29.15 dBm	4.000 MHz	704		N 1	
Freq Offs 0 F									2345
								-	6 7 8
							++	-	9 10
					-		1 1	-	11
		STATUS							53

		<u> </u>		
000000 MHz		Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
PNO: Wide IFGain:Low	#Atten: 30 dB		DET A NNNN	
		Mk	r1 716.000 MHz -26.68 dBm	Auto Tun
				Center Fre 716.000000 MH
	hand -		-13.00 dDn	Start Fre 715.000000 Mi
				Stop Fre 717.000000 Mi
		Sweep 1	.000 ms (1001 pts)	CF Ste 200.000 k Auto M
716.000 MHz	-26.68 dBm			Freq Offs 01
	*#Gaini.cov	SID C ALL CALL CALL CALL CALL CALL CALL CA	AUD APPO 000000 ML/s Trig: Free Run PRO: Wilds Trig: Free Run #Attain: 30 dB 00 dBm #VBW 150 kHz #VBW 150 kHz Sweep 1 X 100 kHz	300         Extract PM         Autor AUTO         BA32.25 PM Aug 12,2014           0000000 MHz         Trig: Free Run PMC Middow         Trig: Free Run PMC Middow         Avg Type: Log-Rwn         Trig: Extraction Run PMC Middow           11 36 dB         Mkr1 716.000 MHz         Trig: Free Run PMC Middow         Mkr1 716.000 MHz           11 36 dB         Mkr1 716.000 MHz         -26.68 dBm         -338.60           11 36 dB         Stopp 717.000 MHz         -338.60           #VBW 150 kHz         Sweep 1.000 ms (1001 pts)         -338.60

Band17_5MHz_QPSK_25_0_HighCH23825

# Band17_10MHz_QPSK_1_0_LowCH23780

RL IUF 50 D DC	SENSE:3NT	ALIGN AUTO 04	1:30:56 PM Aug 13, 2018	
Center Freq 704.000000	MHz PNO: Wide IFGainiLow #Atten: 30 dB	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TVPE A WWWWW DET A NNNNN	Frequency
Ref Offset 13.6 dB 0 dB/div Ref 30.00 dBm	in openicow white in the state	Mkr1 7	704.000 MHz -17.39 dBm	Auto Tune
20.0				Center Free 704.000000 MH
20.0	- www.	North Contraction of the contrac	SCB ODEL	Start Free 703.000000 MH
40.0 50.0 60.0				Stop Free 705.000000 MH
Start 703.000 MHz #Res BW 100 kHz	#VBW 300 kHz		p 705.000 MHz 0 ms (1001 pts)	CF Step 200.000 kH uto Mar
	04.000 MHz -17.39 dBm			Freq Offse 0 H
9				

#### Band17 10MHz QPSK 1 49 HighCH23800

	04:29:06 PM Aug 13, 2018	ALIGN AUTO	eri	SENSE:10			nalyzar - Sw 50 D	H.F.		RI		
Frequency	TRACE 1 2 3 4 5 6	ype: Log-Pwr	A		Hz	0000 MH	16.000	eq 7	ter Fr	en		
	DET A NNNN		1	Trig: Free Run #Atten: 30 dB	PNO: Wide IFGain:Low	PI						
Auto Tu	1 716.000 MHz -16.54 dBm	Mkr				Ref Offset 13.6 dB						
Center Fr 716.000000 Mi						-	1			20.0 10.0		
Start Fre	-13 00 401		~	1-	how			~	m	0.00 10.0		
715.000000 Mi		m	- Andrew							20.0 30.0		
Stop Fre 717.000000 Mi	V-Man wanter	be								40,0 50,0		
CF Ste 200.000 ki	Stop 717.000 MHz 000 ms (1001 pts)	Sweep 1.		300 kHz	#VBW		kHz	100	t 715. BW	Re		
	FUNCTION VALUE	FUNCTION WOTH	FUNCTION	-16.54 dBm	000 MHz	716.00			N 1	1		
Freq Offs 01									-	2345		
									+	6 7 8 9		
										1		
		STATUS								80		

#### Band17_10MHz_QPSK_50_0_LowCH23780

Rt         INF	Avg Type: Log-Pwr TRACE 1 2 3 4 5 6 Frequency
Ref Offset 13.6 dB     Ref 30.00 dBm     Re	Mkr1 704.000 MHz -27.31 dBm Center Fre 704.00000 MH
10.dtd/w Ref 30.00 dBm	-27.31 dBm Center Fre 704.000000 MH
	704.000000 MH
100 	
-10.0	StartFre
200	
40.0	
50.0	Stop Fre 705.000000 MH
-60.0	
Start 703.000 MHz #Res BW 100 kHz #VBW 300 kHz	Stop 705.000 MHz CF Ste Sweep 1.000 ms (1001 pts) 200.000 kH
1 N 1 f 704.000 MHz -27.31 dBm	FUNCTION FUNCTION WOTH FUNCTION ALUE Auto Ma
3	FreqOffse
4 5 6	он 
6 7 8 9	
10 11	
*[ "	STATUS

#### Band17_10MHz_QPSK_50_0_HighCH23800

Center Freq 716,000000 MHz Breakin: 20 db         Avg Type: Log-Per Trig: Free Run Breakin: 20 db         Trig: Free Run Brea	Keysight Spo R.L.	etrum Analyzar									
Ref Offset 136.dB         Mkr1 716.000 MHz         Auto Ti           0 Blidity         Ref 30.00 dBm         -25.82 dBm         -25.82 dBm           0 Blidity         Ref 30.00 dBm         -25.82 dBm         -25.82 dBm           0 Blidity         Ref 30.00 dBm         -25.82 dBm         -25.82 dBm           0 Blidity         Ref 30.00 dBm         -25.82 dBm         -25.82 dBm           0 Blidity         Ref 30.00 dBm         -25.82 dBm         -25.82 dBm           0 Blidity         Ref 30.00 dBm         -25.82 dBm         -25.82 dBm           0 Blidity         Ref 30.00 MHz         Storp F17.000 MHz         Storp F17.000 MHz           1 Blidity         FVBW 300 KHz         Storp F17.000 MHz         -25.82 dBm           2 N         1 f         716.000 MHz         -25.82 dBm           3 d         -         -         -           3 d         -         -         -           3 d         -         -<			00000 MHz						TRACE	123456	
-64         -64         Center F           100         -130.00         -130.00         -130.00           000         -130.00         -130.00         -130.00         -130.00           000         -100         -130.00         -130.00         -130.00         -130.00           000         -100         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -130.00         -	0 dB/div		13.6 dB	io: Wide				Mk	1 716.00	00 MHz	Auto Tur
100	.og 20.0 10.0	Act out									Center Fre 716.000000 MH
Stop F         Stop F           1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td>20,0</td><td></td><td></td><td>Porte</td><td>•</td><td>-</td><td></td><td></td><td></td><td>-13.00 dOn</td><td>Start Fre 715.000000 MH</td></td<>	20,0			Porte	•	-				-13.00 dOn	Start Fre 715.000000 MH
Res BW 100 kHz         #VBW 300 kHz         Sweep         1.00 ms (1001 pts)         200,000           1         1         1         716,000 MHz         -26.82 dBm         FUTURE to the second s	50, D					_					Stop Fre 717.000000 Mi
I         I         I         T         T16.000 MHz         -25.82 dBm           I         I         I         I         T16.000 MHz         -25.82 dBm         Image: Comparison of the com	Res BW	100 kHz		#VBV	V 300 kHz				.000 ms (1	001 pts)	CF Ste 200.000 ki Auto M
7	1 N 1 2 3 4 5	7	716.000	0 MHz	-25.82 dBm		ON FUR	CTON WOTH	FUNCTO	N WALLEE	Freq Offs
	7 8 9 10									3	
SG STATUS					**	'					

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司



# Report No.: E2/2018/70055 Page 207 of 497

#### Band25 1 4MHz QPSK 1 0 LowCH26047

🗱 Keysight Spectrum Analyzer - Swept SA				And the first state in the second	
Center Freq 1.85000000	00 GHz	sense and	Avg Type: Log-Pwr	06:40:32 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	Frequency
Ref Offset 13.9 db	IFGeiniLow #Atter	: 30 dB	Mkr1	1.850 000 GHz -22.96 dBm	Auto Tun
20.0 10.0		F	~		Center Fre 1.850000000 GH
-10.0		91 <u></u>	1 more	-1300 dDa	Start Fre 1.849000000 GH
40.0 50.0 60.0					Stop Fre 1.851000000 GH
Start 1.849000 GHz #Res BW 20 kHz	#VBW 62 kH		Sweep 6	top 1.851000 GHz .200 ms (1001 pts)	CF Ste 200.000 kH Auto Ma
1 N 1 f 1. 2 3 4 5 6 6	.850 000 GHz -22.96	dBm			Freq Offse 0 H
7 8 9 10 11					
esc.			STATUS		

RL	req 1.91500	DC 0000 GHz PNO: Wide =	Trig: Free Run #Atten: 30 dB	Ave	ALIGN AUTO	06:47:27 PM Aug 11, 21 TRACE 1 2 3 4 TIPE A WWW DET A NNN	s + Frequency
10 dB/div	Ref Offset 13. Ref 30.00 d		#Atten: 30 dB		Mkr1	1.915 000 GH -20.26 dB	Auto Tur
20.0			7				Center Fre 1.915000000 GR
10.00 10.0 20.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		1			-13.00 -	5tart Fre
40.0 50.0 50.0					man	m	Stop Fr 1.916000000 G
tart 1.91 Res BW		#VB	N 62 kHz	FUNCTION		Stop 1.916000 G .200 ms (1001 p	
1 N 1 2 3 4 5 6	f	1.915 000 GHz	-20.26 dBm				Freq Offs
7 8 9 10 11							
*					STATU	5	

# Band25_1_4MHz_QPSK_1_5_HighCH26683

#### Band25_1_4MHz_QPSK_6_0_LowCH26047

t Spectrum Analyzer - Swept SA		and the second second		
Freq 1.850000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	06:41:31 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	Frequency
PNO: Wide IFGeiniLow Ref Offset 13.9 dB	#Atten: 30 dB	Mkr1	1.850 000 GHz	Auto Tune
Ref 30.00 dBm			-28.19 dBm	
				Center Free 1.850000000 GH
			-13 00 401	Start Free
	<b>↓</b> ¹			1.849000000 GH
man market and				
				Stop Fre 1.851000000 GH
				1.65100000 611
.849000 GHz W 20 kHz #VBW	62 kHz		top 1.851000 GHz 200 ms (1001 pts)	CF Ste 200.000 kH
1 f 1.850 000 GHz	-28.19 dBm	TION FUNCTION WOTH	FUNCTION VALUE	Auto Ma
1 T 1.850 000 GHZ	-28.19 dBm			Freq Offse
				он
1			· · ·	
		STATUS		

#### Band25 1 4MHz QPSK 6 0 HighCH26683

Frequency	06:47:53 PM Aug 13, 2018	ALIGN AUTO		SENSE:1		50 D DC	101		R
Frequency	TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	pe: Log-Pwr	Avg	Trig: Free Ru	GHz PNO: Wide ==	15000000	eq 1.91	ter Fre	Cen
	DETANNNN			#Atten: 30 dB	IFGain:Low				
Auto Tu	.915 000 GHz -24.84 dBm	Mkr1				set 13.9 dB 0.00 dBm		3/div	
Center Fr									20.0
1.915000000 G					_				10.0
				1	and the second s		~~~~		0.00
Start Fre	-13 00 dDm	_		1			_		-1D.D
1.914000000 G				1	_		_		-20,0
			m	www			_		30.0
04 E	m	-			_		_		40.0
Stop Fre 1.916000000 G		-					-		60 D
1.010000000		-					-		60.0
CF Ste 200.000 ki	op 1.916000 GHz	S		62 kHz		Hz	1000 GH		
Auto M	00 ms (1001 pts)			62 KHZ	#VB				
	FUNCTION VALUE	UNCTION WOTH	FUNCTION	-24.84 dBm	5 000 GHz	1.91		N 1	uka 1
Freq Offs								-	2
01									4
									6
									6 7 8
									9 10
	· · ·							-	11
		STATUS							50

#### Band25_3MHz_QPSK_1_0_LowCH26055

reprt SA				-c- 4 🕰
00000 GHz		Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
IFGeintLow	#Atten: 30 dB	Mkr1		Auto Tune
	1			Center Free 1.850000000 GH
	1-1	-	-1300 4200	Start Fre 1.849000000 GH
				Stop Fre 1.851000000 GH
		Sweep 1	.667 ms (1001 pts)	CF Ste 200.000 kH Auto Ma
1.850 000 GHz	-17.64 dBm		6	Freq Offse 0 H
	PNC: Wide - PSC: Wide - 19.08 dBm #VBI	00000 GHZ Proceeding of the second	20000 GHZ PROVISE - Trig: Free Run Production - Trig: Free Run Production - Trig: Free Run Production - Trig: Free Run Avg Type: Log-Pwr Avg	20000 GHZ         Prode Hz         Trig: Free Run #Artig: 52 dB         Avg Type: Log-Pwr         Trig: 10001 [32 34 55 100]           19 dB         Mkr1 1.850 000 GHZ         -17.64 dBm           1         -17.64 dBm         -17.64 dBm           2         -17.64 dB

#### Band25_3MHz_QPSK_1_14_HighCH26675

Keysight Sp RL	ectrum Analyzer - Sw	Appt SA	SENSE		ALIGN AUTO	06:30:45 PM Au		- 4		
	req 1.91500	00000 GHz		Avg Typ	e: Log-Pwr	TRACE 1	23456	Frequency		
Ref Offset 13.9 dB         Mkr1 1.915 000 GHz           10 dBddiv         Ref 3.0.00 dBm										
.og 20.0 10.0		- /	-					Center Fre 1.915000000 GH		
20.0			1	~			-13.03 421	Start Fre 1.914000000 GH		
40.0 50.0 60.0								Stop Fro 1.916000000 Gi		
Res BW		#	/BW 120 kHz		Sweep 1	top 1.91600 .667 ms (10	01 pts)	CF Ste 200.000 ki Auto M		
1 N 2 3		1.915 000 GHz	-15.06 dBm	FUNCTION	INCTION WRITH	FUNCTION		Freq Offs		
4 5 6 7 8 9							-	01		
10										

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488



# Report No.: E2/2018/70055 Page 208 of 497

#### Band25 3MHz QPSK 15 0 LowCH26055

							ctrum Analyzar - Sv		
Frequency	TRACE 1 2 3 4 5 6	wr	Type: Log-Pw		Trig: Free Ru	00000 GHz	eq 1.8500		u i Cer
Auto Tur	DET A NNNN	kr1 1.8	Mkr		#Atten: 30 dB	PNO: Wide IFGain:Low	Ref Offset 1		
	-26.18 dBm						Ref 30.00	dB/div	
Center Fre 1.850000000 GH							_	0	20.0
Start Fre 1.849000000 GH	-13 00 dDm	_		/	¢14		_	0	-10,0
Stop Fre 1.851000000 GF								0	-30 0 -40 0 -60 0
CF Ste 200.000 kF Auto Ma	1.851000 GHz ms (1001 pts)	p 1.667	Sweep	EUSCII	W 120 kHz	#VE		-	sta #Re
Freq Offs 0 F					-26.18 dBm	1.850 000 GHz	1	N 1	12345
									6 7 8 9
		1	1				1 1	1 1	11
		TATUS	STAT						153

-0- 4								malyzer - S		iight Spe	K Key
Frequency	TRACE 1 2 3 4 5 6	Pwr	Type: Log-P		SENSE	GHz	000000		iu eq 1	er Fr	
A	DET A NNNN				#Atten: 30 d	PNO: Wide * IFGain:Low					
Auto Tu	15 000 GHz -22.79 dBm	kr1 1	м					Offset 1 30.00		/div	0 di
Center Fr		_				_	_		-		20.0
1.915000000 G		-		-	~				-		10.0
Start Fr	-13 00 dOn				1						0.0
1.914000000 G							-		-		0.0
											0.0
Stop Fr 1.916000000 G		-	-			-	-		-		0.0
											50.0
CF St 200.000 k	1.916000 GHz ms (1001 pts)		Swee		/ 120 kHz	#VB		GHz Hz		1.91 BW	
Auto M	UNDITION WALKE	NOTH	FUNCTIONW		-22.79 dBm	5 000 GHz	X 1.915	_		N 1	
Freq Offs											234
	1	-		-					-	+	5 6 7
											89
		-	+	-	**						10
		TATUS	e.								50

#### Band25_3MHz_QPSK_15_0_HighCH26675

#### Band25_5MHz_QPSK_1_0_LowCH26065

			-c- 4
Trig: Free Run	Avg Type: Log-Pwr	06:10:55 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A N N N N N	Frequency
#Atten: 30 dB	Mkr1	1.850 000 GHz -21.29 dBm	Auto Tun
			Center Free 1.850000000 GH
		1300 450	Start Fre 1.849000000 GH
			Stop Fre 1.851000000 GH
W 150 kHz		top 1.851000 GHz 000 ms (1001 pts)	CF Stej 200.000 kH Auto Ma
-21.29 dBm			Freq Offse 0 H
		11 STATUS	

#### Band25 5MHz QPSK 1 24 HighCH26665

Frequency	Maug 13, 2018	06:18:03 PM	ALIGN AUTO		ENSE:INT	51				1		R
Trequency		TYP	e: Log-Pwr	Avg	ee Run	Trig: Fre	NO: Wide =	00000 0	1.9150	req	ter F	Jer
	ANNNN	DE			30 dB	#Atten: 3	Gain!Low					
Auto Tur	00 GHz 04 dBm		Mkr1						f Offset 1 of 30.00		B/div	10 d
Center Fre			-									20.0
1.915000000 GH			-	_	-					_		10.0
				_	_					_		0.00
Start Fre	-13 00 40+		-	_	1-	~		-	- And	_		10.0
1.914000000 GH				_	× -	-	-	-	~		-	20,0
				-	~					_	-	30.0
Stop Fre				~	-						-	40.0
1.916000000 GH					-		+			-	-	60.0
			-		-			-		-	-	60.0
CF Ste 200.000 kH	5000 GHz 1001 pts)	top 1.916 000 ms (1	Sweep 1.	_	z	W 150 kHz	#VB	-	0 GHz kHz		t 1.91 s BW	
Auto Mi	IN WALLE		INCTION WOTH	INCTION		Ý	_	×			NUDE	
					iBm	-19.04 d	00 GHz	1.915 (	-	1 1	N	1
Freq Offs							-		-	-	-	2 3 4
01							_				-	5
					-		_				-	6 7 8
	_											9
	=				-						-	9 10 11

#### Band25_5MHz_QPSK_25_0_LowCH26065

									alyzer - Son		ight Spect	Key R Ri
Frequency	11:46 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN		Type: Log-Pwr		e Run		Hz NO: Wide -+	00000 G	85000	pq 1.	er Fre	
Auto Tuni	50 000 GHz -28.41 dBm	1 1.8	Mkr1		30 dB	#Atten: 3	Gain:Low	9 dB	offset 13 30.00 d			10 dE
Center Free 1.850000000 GH												20.0 10.0
Start Free 1.849000000 GH	-13 00 40m	_		-	•1					-		0.00 -10.0 -20.0 -30.0
Stop Fre 1.85100000 GH												40.0 50.0 60.0
CF Ste 200.000 kH Auto Ma	1.851000 GHz ms (1001 pts)	1.000	Sweep 1	EUNCTIO	2	150 kHz	#VBV	×		1 kH	1.849 BW 5	#Re:
Freq Offse 0 H					Bm	-28.41 di	IO GHZ	1.850.00		1	N 1	1 2 3 4 5
					-							6 7 8 9 10
		TUS	STATU									4

#### Band25_5MHz_QPSK_25_0_HighCH26665

			 		n Analyzer - Swept SA			
Frequency	06:18:36 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 Trace 1 2 3 4 5 6	Aug Type: Log-Pwr	 Trig: Free Ru	0 GHz	1.91500000	Freq		
Auto Tur	1.915 000 GHz	Mkr1	#Atten: 30 dl	PNO: Wide IFGain:Low	ef Offset 13.9 dB			_
	-24.07 dBm				ef 30.00 dBm		B/div	
Center Fre							-	20.0
	-12.00 (20)							0.00
Start Fre 1.914000000 GF	-13.00 82.01		 -t'				-	20 0
Stop Fre								30.0 40.0
1.916000000 G								60,0 60,0
CF Ste 200.000 ki	top 1.916000 GHz .000 ms (1001 pts)		/ 150 kHz	#VB	00 GHz kHz	01400 N 51 H		
Auto Ma	FUNCTION VALUE	ON FUNCTION WOTH	-24.07 dBm	15 000 GHz		1 f		100
Freq Offs 01						-		2345
								6789
								10
		STATUS						150

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488



# Report No.: E2/2018/70055 Page 209 of 497

#### Band25 10MHz QPSK 1 0 LowCH26090

0 4									ctrum Analyza	yoight.Spe	M Key
Frequency	Aug 13, 2018	TRAC	ALIGN AUTO	Avg	ETASE INT			SQ D DC	10r		R
Auto Tun	00 GHZ			CARD IN		#Atten:	PNO: Wide IFGain:Low				_
	13 dBm	-15.6							Ref Offs Ref 30.	B/div	10 dl
Center Fre 1.850000000 GH			1		-	-			_		20.0
Start Fre	North Contraction			mon	*7				_		10.0
1.84900000 GP					-		m	man			30.0
Stop Fre 1.851000000 GH									m	~~~~	60.0
CF Ste 200.000 ki		top 1.85 .000 ms (	Sweep 1		z*	W 300 kH;	#VE		9000 GH 100 kHz		
Auto M	IN WALLE	FUNCT	INCTION WOTH	FUNCTION		-15.613 d	000 GHz	×	C 500	NODE TH	194
Freq Offs	=					-13.867 d	992 GHz	1.849	1	N 1	2345
											6789
											10
			STATUS								*

RL RL	um Analyzar - Swa IUF 50 ID	DC	SENSE: INT	Avg Type: RMS Avg Hold: 100/1	TRAC	MAug 13, 2018	Frequency
	Ref Offset 13. Ref 30.00 c		#Atten: 30 dB		lkr1 1.915 0	00 GHz	Auto Tun
		-					Center Fro 1.915000000 Gi
100 000		- Andrewski	12 12	mm		-13.00 45m	Start Fre 1.914000000 G
30.0 (0.0 50.0					mm	~~~~~	Stop Fre 1.916000000 Gi
tart 1.914 Res BW 1	00 kHz	#VI	300 kHz*	Swee	Stop 1.910 p 1.000 ms (	1001 pts)	CF Str 200.000 k Auto M
N 1 N 1 34 6	1	1.915 000 GHz 1.915 026 GHz	-15.148 dBm -14.154 dBm			-	Freq Offs 0
7 8 9 1							
6					STATUS	_	

Band25_10MHz_QPSK_1_49_HighCH26640

#### Band25_10MHz_QPSK_50_0_LowCH26090

Keysight Spectrum Analyzer - Swept SA RL IIF 50 D DC		SENSE INT	ALTON AUTO		
Center Freq 1.8500000	O GHz	Trig: Free Run	Avg Type: Log-Pwr	06:00:35 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
	IFGain:Low	#Atten: 30 dB	Mkr1	1.850 000 GHz	Auto Tun
Ref Offset 13.9 dE 0 dB/div Ref 30.00 dBm				-25.13 dBm	
20.0					Center Fre
10.0					1.850000000 GH
-1D.D		1		-13.00 dDn	Start Fre
20.0	man	min			1.849000000 GH
40.0					Stop Fre
60.0					1.851000000 GH
start 1.849000 GHz				top 1.851000 GHz	CF Ste
Res BW 100 kHz	#VBW 3		Sweep 1.	000 ms (1001 pts)	200.000 kH Auto Ma
1 N 1 f 1.	50 000 GHz	25.13 dBm			Freq Offse
3 4 5					0 H
6 7 8					
8 9 10				]	
ii	-				
53			STATUS		

#### Band25_10MHz_QPSK_50_0_HighCH26640

	06:08:13 PM Aug 13, 2018	ALIGN AUTO		\$67656:1			1	L	
Frequency	TRACE 1 2 3 4 5 6	Type: Log-Pwr	Avg	Trig: Free Ru	00000 GHz	1.915000	Freq	ter	er
	DET A NNNNN			#Atten: 30 dB	PNO: Wide IFGain/Low				
Auto Tur	1.915 000 GHz -22.72 dBm	Mkr1				f Offset 13.9 f 30.00 dE		B/div	0 d
Center Fre									20.0
1.915000000 GH		_						-	10.0
		-		-	-			-	0.00
Start Fre	-13.00 dDm			1				⊨	10.0
1.914000000 Gi			m	frank					20.0
									30.0
Stop Fre									40.0 50.0
1.916000000 G									60.0
	top 1.916000 GHz					0 GHz	0110		
	top 1.916000 GHZ			W 300 kHz	#VB		W 100		
200.000 ki	000 ms (1001 pts)	sweep 1.							
200.000 ki	000 ms (1001 pts)	Sweep 1.	FUNCTION	00 70 dBm	X		TRC S		- 6 4
200.000 ki Auto M			FUNCTION	-22.72 dBm	8 1.915 000 GHz		1 1		1
200.000 ki Auto M			FUNCTION	-22.72 dBm					1 2 3 4
200.000 ki Auto M			FUNCTION	-22.72 dBm					12345
200.000 ki Auto Mi			FUNCTION	-22.72 dBm					12345678
CF Ste 200.000 ki Auto Mi Freq Offs 0 i			FUNCTION	-22.72 dBm					12345

#### Band25_15MHz_QPSK_1_0_LowCH26115

0									m Analyzar - Sv	ht Spectre	Keysie RL
Frequency	49 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	TR.	RMS 100/100	Avg Typ	Bun				IU: 501	_	KL
Auto Tun	DET A NN NN N			Avginos		#Atten: 3	O: Wide 😁				
Auto Tun	0 000 GHz .963 dBm		Mkr1						tef Offset 1 tef 30.00		dB/
Center Fre		/									0.0
1.85000000 GH			1								0.0
Start Fre	-13 00 dDm		MAR	man	1	(0 ⁶⁵ (1)					1.0
1.849000000 GH				-	W. M I	manner	mand	hopogradation	M Martin Mar	www	10
		-									3.0
Stop Fre 1.851000000 GH									-		0.0
CF Ste	851000 GHz	Stop 1.8	s						00 GHz	1.8490	
200.000 kH Auto Ma	ns (1001 pts)	.000 ms	Sweep 1			620 kHz	#VBV		0 kHz		
	ACTION WALVE	FUNC	ICTION WOTH	TION	3m	-14.963 di		1.850 000	1		1
Freq Offse				_	3m	-13.952 di -13.256 di -13.753 di	GHz	1.849 988 1.849 964 1.849 930	!	1	
0 H					3m	-13.688 di -14.062 di	GHz	1.849 862	1	1	4 N 5 N 6 N
					3m	-13.665 di	GHz	1,849 952	ŕ		7 N
				_	-						9
				1	1					+ +	
		s	STATUS								3

# Band25_15MHz_QPSK_1_74_HighCH26615

							triam Analyzar - Sv	
Frequency	05:53:19 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NN NN N	ALIGN AUTO ALIGN AUTO ALIGN AUTO ALIGN AUTO ALIGN AUTO ALIGN AUTO	Ave	Trig: Free Run	NO: Wide	P	NF 50 1	RL
Auto Tur	1.915 000 GHz -15.988 dBm	Mkr1		#Atten: 30 dB	Gain/Low	3.9 dB	Ref Offset 1 Ref 30.00	dB/div
Center Fre								8
1.915000000 GH						1		0.0
Start Fre	איז ראיז ראין איז		34 Muser mar	Wwwwww 1)	and and the second	"hy	_	D
1.914000000 GH	M. W. M. M. W.	analy water	divide by				_	0
Stop Fre								
1.916000000 Gł								1.0
CF Ste 200.000 ki Auto M	top 1.916000 GHz .000 ms (1001 pts)	Sweep 1.		520 kHz*	#VBW	-	000 GHz 200 kHz	art 1.914 les BW 2
Auto Ma	FUNCTION WALVE	UNCTON WORK	FUNCTION	Ý.		×		NOTE THE
Freq Offs				15.988 dBm 13.525 dBm 13.340 dBm 13.276 dBm	54 GHz 84 GHz	1.915 00 1.915 00 1.915 00 1.915 1	1	N 1 2 N 1 3 N 1
								4 N 1 5 7 8
	· · ·	-	_		1		1	1
		STATUS						3

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司



# Report No.: E2/2018/70055 Page 210 of 497

#### Band25 15MHz QPSK 75 0 LowCH26115

	ectrum Analyzer - S					
Center Fi	req 1.8500	000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	05:46:39 PM Aug 13, 2018 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref Offset 1 Ref 30.00		#Atten: 30 dB	Mkr1	1.850 000 GHz -26.30 dBm	Auto Tun
20.0 10.0						Center Fre 1.850000000 GH
-10.0				mann markan	-13 00 40 m	Start Fre 1.849000000 GH
40.0 60.0						Stop Fre 1.851000000 GH
Start 1.84 #Res BW		#VB	W 620 kHz		Stop 1.851000 GHz .000 ms (1001 pts)	
1 N 1 2 3 4 5 6 7	f	1.850 000 GHz	-26.30 dBm		E	Freq Offse 0 H
8 9 10 11						
15G				STATU	5	

				_					nalyzar - Sye		ight Spec	
Frequency	PM Aug 13, 2018	TR	e: Log-Pwr	Avg	Free Run		Hz	00000 G	91500	eq 1	er Fr	RL ent
Auto Tur	DET A NNNN					#Atten:	PNO: Wide * FGain:Low					
Auto Tu	000 GHz 3.05 dBm		Mkr1						Offset 13 30.00 d		/div	dB
Center Fre	_		_	_		_						0.0
1.915000000 Gi				-	-	-	-		_	-		0.0
Start Fr	-13 00 401								-			0.0
1.914000000 G				~~~~~	+'m	min	www.	man		-		0.0
												0.0
Stop Fr 1.916000000 G				_		_	_			_		0.0
1.310000000				-	-	-	-			-		0.0
CF St 200.000 k	16000 GHz (1001 pts)				Hz	W 620 kH	#VB				1.914 BW 2	
Auto M	-		ZOLOZIWORI	UNCTION		Ý		x			10 110	
Freq Offs					5 dBm	-23.05 c	00 GHz	1.915 0		1	N 1	23
0					-					$\square$	-	4 5
					-							6
					-					Ħ	+	8 9 0
					-		-				1	1
		s	STATUS									a

# Band25_15MHz_QPSK_75_0_HighCH26615

#### Band25_20MHz_QPSK_1_0_LowCH26140

Keysight Spectrum Analyzer - Swept SA			
RL NF 50 D DC	PNO: Fast Trig: Free Run	ALIGN AUTO 04:57:00 PM Aug 13, 2018 Avg Type: Log-Pwr TRACE [1 2 3 4 5 6 Type] a WWWWW DETIA N N N N	Frequency
Ref Offset 13.9 dB 0 dB/div Ref 30.00 dBm	IFGainLow #Atten: 30 dB	Mkr1 1.850 000 GHz -15.27 dBm	Auto Tur
00			Center Fre 1.850000000 GH
	a libration for have a free for	have a second	Start Fre 1.849000000 GH
			Stop Fre 1.851000000 GH
art 1.849000 GHz Res BW 300 kHz	#VBW 1.0 MHz	Stop 1.851000 GHz Sweep 1.000 ms (1001 pts) FUNCTION FUNCTION WARE	CF Ste 200.000 kH Auto Ma
1 N 1 f 1.85	50 000 GHz -15.27 dBm 19 988 GHz -13.24 dBm	PUNCTURE PUNCTURE WOITH PUNCTURE A	Freq Offse 0 H
7 8 9 0 1			
30		STATUS	

#### Band25 20MHz QPSK 1 99 HighCH26590

Frequency Auto Tune	05:03:04 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 TYPE A WARNEN DET A NIN NIN N	ALIGH AUTO Avg Type: Log-Pwr		Trig: Free Ru #Atten: 30 dB	PNO: Fast	r-Swept SA 50 D DC	um Analyz IU	t Spectr	Cayaigt R.L.
	1.915 000 GHz -18.11 dBm	Mkr1				t 13.9 dB 00 dBm			dB/d
Center Fre 1.915000000 GR							-	-	0
Start Fre 1.914000000 GP	HAMMAN MANAMAN	MANA ANA	and the second second	WWW.John	www.	marthe			
Stop Fre 1.916000000 Gi	1						-		0 0
CF Ste 200.000 ki Auto M	top 1.916000 GHz 000 ms (1001 pts)	Sweep 1.		1.0 MHz	#VBW		000 GH 00 kHz	W 3	es E
Freq Offs 01	FUMRITCHNWALDE	NUTION WOTH	FUNCTION	-18.11 dBm -13.75 dBm	000 GHz 018 GHz	× 1.915 0 1.915 0	1	1	NN
		STATUS							

#### Band25_20MHz_QPSK_100_0_LowCH26140

				-			Analyzar - So			
Frequency	04:57:58 PM Aug 13, 2018 TRACE 1 2 3 4 5 6 Tropp A use 4 5 6	Avg Type: Log-Pwr		Trig: Free Run		00000 G		Freq		Cen
Auto Tune	1.850 000 GHz			#Atten: 30 dl	PNO: Fast ++ Gain:Low	1F 3.9 dB	Offset 1			
	-26.25 dBm				-	dBm	f 30.00	Re		Log
Center Free 1.850000000 GH:		_			-			_		20.0
Start Free 1.849000000 GH	1300 400	and a second and a second		↓ ¹	-			_		0.00 -10.0 -20.0
Stop Free										-30.0 -40.0
1.851000000 GH										-60.0
CF Step 200.000 kH Auto Mar	top 1.851000 GHz .000 ms (1001 pts)	Sweep 1.		1.0 MHz	#VBV		kHz	4900 V 300	s Bl	#Re
	EDVICTORYWALDE	FUNCTION WOTH	FUNC	-26.25 dBm	00 GHz	1.850.00		1 f	N	1
Freq Offse 0 H					-			-		3 4 5
										678
										9 10 11
	1	STATUS								150

#### Band25_20MHz_QPSK_100_0_HighCH26590

									inalyzar - So			
Frequency	1 PM Aug 13, 2018 RACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	T	ype: Log-Pwr	Ave	ree Run		Iz	00000 G	.9150	Freq 1	nter	
Auto Tune	000 GHz 3.07 dBm	1.915	Mkr1		PNO: Fest Trig: Free Run IFGainLow #Atten: 30 dB div Ref 0ffset 13.9 dB							
Center Fre 1.915000000 GH						-						20.0 10.0
Start Fre 1.914000000 GH	-13.00 dDn				•1		and the second		1			10.0
Stop Fre 1.916000000 GH											_	40.0 50.0
CF Ste 200.000 kH Auto Ma	16000 GHz s (1001 pts)	1.000 m	Sweep 1		łz	N 1.0 MH	#VB		kHz	914000 N 300	es Bl	Re
LINAN ING	CONTRACTOR -	FUN	FUNCTION WOTH	FUNCTION	dBm	-23.07	0 GHz	1.915 0		1 1	N	1
Freq Offse 0 H					-							23456
					-							7 8 9 10
		-			-	**	-		-	_		11
		IS	STATUS									150

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.

t (886-2) 2299-3279

bit is balance of the balance of t and offenders may be prosecuted to the fullest extent of the law.

SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

f (886-2) 2298-0488