Report No.: HR/2020/3002102 Page: 175 of 205

#### 4.10.7.2 Middle Channel ₩ Spectrum Offset 1.00 dB Ref Level 5.00 dBm Mode Auto Sweep 01 Max 0 dBM Limit Check Line \_\$PURIOUS\_LINE\_ABS\_ PASS PASS -10 dBm· -20 dBm-SPURIOUS\_LINE\_ABS -40 dBm--50 dBm-معلوي بلوراه بالريقان فالمتعطال بلور 14 \_L de 1.1 and party of a pirit in to the the an abella a a marked balls and the ومرجاه وألادة وتشريط والر -70 dBm--80 dBm--90 dBm– Start 30.0 MHz 27012 pts Stop 26.0 GHz **Spurious Emissions** RBW Power Abs ∆Limit Range Low Range Up Frequency 30.000 MHz 2.387 GHz 1.000 MHz 2.23531 GHz -54.60 dBm -28.60 dB 2.387 GHz 2.400 GHz 1.000 MHz 2.39963 GHz -58.11 dBm -42.11 dB 1.000 MHz 2.48600 GHz -58.37 dBm -42.37 dB 2.484 GHz 2.497 GHz 2.497 GHz 26.000 GHz 1.000 MHz 16.45551 GHz -50.68 dBm -24.68 dB Measuring...

Date: 21.APR.2020 13:13:23



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excore at parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test reation, forgery or faisification only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ags.com)

Report No.: HR/2020/3002102 Page: 176 of 205

### 4.10.7.3 Highest Channel

Spectrum									
Ref Level 5.0	)0 dBm	Offset 1.0	O dB	Mode A	uto Sweep				
●1 Max									
Limit Che	ck		PA	SS					
Line _\$PU	IRIOUS_	LINE_ABS_	PA	SS					
-10 dBm									
-20 dBm									
_SPURIOUS_LIN	IE_ABS								
-40 dBm									
-50 dBm		al alternation of the second	an a	المرجب والأحامة	and the second	an de la marca e	and the standard states	as a colorida	to a fill a local and a superior of the local and the loca
		and the state of the state	لللاء والمطالب أحراك وحاد	Antender, Jahlan	ade to be a set of the set of the set	and the fight where	a la parte de la compañía de la comp	(Louised	and and the present of the strends of the
A DESCRIPTION OF THE OWNER			Bellevera de la la						
-70 dBm									
-80 dBm									
-90 dBm									
Start 20.0 ML	17			270	112 ptc				Stop 26 0 CHz
Courious Emis	sions			270	712 pt3				300p 20.0 GH2
Spurious Erris		Danga Un	1 00	w 1	Гиодион		Dowow th	ve	At insit
		n por cu	- RE			067 MH7		dBm	
2 387 G	H7	2,307 GH	2 I,I 7 1 I		220	667 GHz	-57 02	dBm	-41 98 dB
2.337 G	Hz	2.497 GH	z 1.1	000 MHz	2.39	904 GHz	-57.90 upin -58 51 dBm		-42.51 dB
2.497 G	iHz	26.000 GH	z 1.	DOO MHz	6.81	538 GHz	-50.84	dBm	-24.84 dB
						Measu	Jring 🚺	1111	) 🦇 🥼

Date: 21.APR.2020 13:13:28



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms/Terms-an

Branch

Report No.: HR/2020/3002102 Page: 177 of 205

#### 4.10.8 Test plots (UHD 2MHz 8PSK High Power)

### 4.10.8.1 Lowest Channel

Spectrum									
Ref Level	5.00 dBm	<b>Offset</b> 1.00	) dB	Mode A	uto Sweep				
⊖1 Max									2
o demit C	heck		PA	SS					
Line _\$	PURIOUS_	LINE_ABS_	PA	SS					
-10 dBm									
-20 dBm									
	LINE_ABS								
-40 dBm									
-50 dBm		فتعاليك والم		- 14 - A	والمعادر والمراجع		و المارين المربي المربي المراجع		
All and the second second	And a local difference of	and the sharehold in the state	and the second secon	An an all states of	a de catela de de de analas	وريق بالمراساتين	An Instruction and play for	Allenet and the second seco	na na serie de la companya de la com Esta de la companya d
nipliting patenter in	Lange and the second		and the part of the second	A Dr. Berner	The second second			CAL N	To the Part of the Second Second
-70 dBm									
-80 dBm									
-90 dBm									
Start 30.0	MHz			270	)12 pts				Stop 26.0 GHz
Spurious En	nissions				•				·
Range L	.ow	Range Up	RE	w	Freque	ncy	Power At	os	∆Limit
30.000	) MHz	2.387 GH:	z 1.	000 MHz	1.07	183 GHz	-53.63	dBm	-27.63 dB
2.38	7 GHz	2.400 GH;	z 1.	000 MHz	2.39	488 GHz	-58.06	dBm	-42.06 dB
2.48	4 GHz	2.497 GH:	z 1.	000 MHz	2.49626 GHz -58		-58.16	dBm	-42.16 dB
2,49	7 GHz	26.000 GH:	z   1.	000 MHz	19.95	380 GHz	-50.83	dBm	-24.83 dB
	Π					Measu	ıring 🚺		) 🚧 – //

Date: 21.APR.2020 13:13:34



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions

Report No.: HR/2020/3002102 Page: 178 of 205

#### 4.10.8.2 Middle Channel ₩ Spectrum Offset 1.00 dB Ref Level 5.00 dBm Mode Auto Sweep 01 Max 0 dBM Limit Check Line \_\$PURIOUS\_LINE\_ABS\_ PASS PASS -10 dBm· -20 dBm-SPURIOUS\_LINE\_ABS -40 dBm--50 dBm-A LANDERSON أصالك لامريان and a state of the state of the state of 1.114-011 The Dear Property of 100 -70 dBm--80 dBm--90 dBm– Start 30.0 MHz 27012 pts Stop 26.0 GHz **Spurious Emissions** RBW Power Abs ∆Limit Range Low Range Up Frequency 30.000 MHz 2.387 GHz 1.000 MHz 614.68445 MHz -54.77 dBm -28.77 dB 2.387 GHz 2.400 GHz 1.000 MHz 2.39008 GHz -57.75 dBm -41.75 dB 2.49145 GHz 1.000 MHz -58.40 dBm -42.40 dB 2.484 GHz 2.497 GHz 2.497 GHz 26.000 GHz 1.000 MHz 19.93478 GHz -50.40 dBm -24.40 dB Measuring...

Date: 21.APR.2020 13:13:39



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on). Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ags.com

Report No.: HR/2020/3002102 Page: 179 of 205

#### 4.10.8.3 Highest Channel ₩ Spectrum Ref Level 5.00 dBm Offset 1.00 dB Mode Auto Sweep 01 Max 0 dBM Limit Check Line \_\$PURIOUS\_LINE\_ABS\_ PASS PASS -10 dBm· -20 dBm-SPURIOUS\_LINE\_ABS -40 dBm· -50 dBm-A REAL PROPERTY AND A REAL Laborated. and a statistic of the state -70 dBm--80 dBm--90 dBm– Start 30.0 MHz 27012 pts Stop 26.0 GHz **Spurious Emissions** RBW **Frequency** Power Abs ∆Limit Range Low Range Up 30.000 MHz 2.387 GHz 1.000 MHz 1.00231 GHz -54.49 dBm -28.49 dB 2.387 GHz 2.400 GHz 1.000 MHz 2.39442 GHz -56.95 dBm -40.95 dB 2.49264 GHz 1.000 MHz -58.45 dBm -42.45 dB 2.484 GHz 2.497 GHz 2.497 GHz 26.000 GHz 1.000 MHz 20.14286 GHz -51.01 dBm -25.01 dB Measuring...

Date: 21.APR.2020 13:13:43



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Termis-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Termis-and-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions

Report No.: HR/2020/3002102 Page: 180 of 205

### 4.10.9 Test plots (UHD 4MHz)

Branch

### 4.10.9.1 Lowest Channel

Spectrum						[₩
Ref Level 5.00 dB	3m Offset 1.00	dB Mode A	uto Sweep			
🔵 1 Max						
Limit Check		PASS				
Line _\$PURIO	US_LINE_ABS_	PASS				
-10 dBm						
-20 dBm						
_SPURIOUS_LINE_A	35					
-40 dBm						
-50 dBm	ر مالكى بىرىكەر يەرىيى بىلەر ي		in a state	and a discussion of the second	ala, at and about the state	
Alexander and a second seco	A second se	proprieta a secondaria da secondaria	and the state of the second states	and a Product of the	and the state of t	and the state of the second state of the secon
NUMPER PARTY OF						
-70 dBm						
-80 dBm						
-90 dBm						
Start 30.0 MHz		270	)12 pts			Stop 26.0 GHz
<b>Spurious Emissior</b>	15					
Range Low	Range Up	RBW	Frequer	ncy	Power Abs	∆Limit
30.000 MHz	2.387 GHz	1.000 MHz	931.032	262 MHz	-54.43 dB	m -28.43 dB
2.387 GHz	2.400 GHz	1.000 MHz	2.39	742 GHz	-57.87 dB	m -41.87 dB
2.484 GHz	2.497 GHz	1.000 MHz	2.49	338 GHz	-58.38 dB	m -42.38 dB
2.497 GHz	26.000 GHz	1.000 MHz	19.94	373 GHz	-50.60 dB	m -24.60 dB
				Measu	ring 🚺	

Date: 21.APR.2020 13:13:48



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, statention 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 faisification of the content or appearance of this document is uniawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on). Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@egs.com

Report No.: HR/2020/3002102 Page: 181 of 205

#### 4.10.9.2 Middle Channel ₩ Spectrum Offset 1.00 dB Ref Level 5.00 dBm Mode Auto Sweep 01 Max 0 dBM Limit Check Line \_\$PURIOUS\_LINE\_ABS\_ PASS PASS -10 dBm· -20 dBm-SPURIOUS\_LINE\_ABS -40 dBm· -50 dBm-وعاوالم والمحاو والمحاودة and the state the place and part of and a second from the second second second second second second d mit de and Build count -70 dBm--80 dBm--90 dBm– Start 30.0 MHz 27012 pts Stop 26.0 GHz **Spurious Emissions** RBW Power Abs ∆Limit Range Low Range Up Frequency 30.000 MHz 2.387 GHz 1.000 MHz 1.03943 GHz -54.52 dBm -28.52 dB 2.387 GHz 2.400 GHz 1.000 MHz 2.38945 GHz -57.71 dBm -41.71 dB 2.49640 GHz 1.000 MHz -58.42 dBm -42.42 dB 2.484 GHz 2.497 GHz 2.497 GHz 26.000 GHz 1.000 MHz 20.18090 GHz -50.79 dBm -24.79 dB Measuring...

Date: 21.APR.2020 13:13:53



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excore at parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test reation, forgery or faisification only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ags.com)

Report No.: HR/2020/3002102 Page: 182 of 205

#### 4.10.9.3 Highest Channel ₩ Spectrum Ref Level 5.00 dBm Offset 1.00 dB Mode Auto Sweep 01 Max 0 dBM Limit Check Line \_\$PURIOUS\_LINE\_ABS\_ PASS PASS -10 dBm· -20 dBm-SPURIOUS\_LINE\_ABS -40 dBm· The state of the s -50 dBmto the disc of the international states in the last. in still die station were -70 dBm--80 dBm--90 dBm– Start 30.0 MHz 27012 pts Stop 26.0 GHz **Spurious Emissions** RBW Power Abs ∆Limit Range Low Range Up Frequency 30.000 MHz 2.387 GHz 1.000 MHz 959.30955 MHz -54.56 dBm -28.56 dB 2.387 GHz 2.400 GHz 1.000 MHz 2.39769 GHz -58.08 dBm -42.08 dB 1.000 MHz 2.48984 GHz -58.59 dBm -42.59 dB 2.484 GHz 2.497 GHz 2.497 GHz 26.000 GHz 1.000 MHz 20.14734 GHz -50.44 dBm -24.44 dB Measuring...

Date: 21.APR.2020 13:13:57



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excore at parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test reation, forgery or faisification only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ags.com)

Report No.: HR/2020/3002102 Page: 183 of 205

#### 4.10.10 Test plots (UHD 4MHz High Power)

### 4.10.10.1 Lowest Channel

**Branch** 

Spectrum					
Ref Level 5.00 di	3m Offset 1.00	dB Mode Ar	uto Sweep		
⊖1 Max					
Limit Check		PASS			
Line _\$PURIO	US_LINE_ABS_	PASS			
-10 dBm					
-20 dBm					
_SPURIOUS_LINE_A	BS				
-40 dBm					
-50 dBm	the state of the s		مردون العام الكال الأفيان الأقرار الأور عن العالي الأور		and the subscription of the section
in the second	the second state of the se	and distance in a link of a start	and a plate a street with a street of the	the data stills of the still of a strength of	and a state of the first state of the state of the
And State of the s	266 1 223.0	2 10 10 10 10 10	5 S		661 1.23
-70 dBm					
-80 dBm					
-90 dBm					
Start 30.0 MHz		270	12 pts		Stop 26.0 GHz
Spurious Emissior	15		•		
Range Low	Range Up	RBW	Frequency	Power Abs	∆Limit
30.000 MHz	2.387 GHz	1.000 MHz	948.11660 MHz	-53.55 dBm	-27.55 dB
2.387 GHz	2.400 GHz	1.000 MHz	2.39902 GHz	-58.05 dBm	-42.05 dB
2.484 GHz	2.497 GHz	1.000 MHz	2.48712 GHz	-58.48 dBm	-42.48 dB
2.497 GHz	26.000 GHz	1.000 MHz	20.37668 GHz	-50.87 dBm	-24.87 dB
			Measu	ring	) 🦇 //

Date: 21.APR.2020 13:14:01



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions

Report No.: HR/2020/3002102 Page: 184 of 205

#### 4.10.10.2 Middle Channel ₩ Spectrum Offset 1.00 dB Ref Level 5.00 dBm Mode Auto Sweep 01 Max 0 dBM Limit Check Line \_\$PURIOUS\_LINE\_ABS\_ PASS PASS -10 dBm· -20 dBm-SPURIOUS\_LINE\_ABS -40 dBm--50 dBmthe state والمتعر والمحالين والمحارية والمحاوة والمحافظة المحارية والمحادية and a star start of a start of a start Internet the little and the adaptives, all -70 dBm--80 dBm--90 dBm– Start 30.0 MHz 27012 pts Stop 26.0 GHz **Spurious Emissions** RBW Power Abs ∆Limit Range Low Range Up Frequency 30.000 MHz 2.387 GHz 1.000 MHz 1.56667 GHz -54.97 dBm -28.97 dB 2.387 GHz 2.400 GHz 1.000 MHz 2.39763 GHz -57.96 dBm -41.96 dB 2.49382 GHz -42.49 dB 1.000 MHz -58.49 dBm 2.484 GHz 2.497 GHz 2.497 GHz 26.000 GHz 1.000 MHz 19.95156 GHz -50.53 dBm -24.53 dB Measuring...

Date: 21.APR.2020 13:14:05



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excore at parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test reation, forgery or faisification only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ags.com)

Report No.: HR/2020/3002102 Page: 185 of 205

Spectrum								1
Ref Level 5.00 di	3m Offset 1.0	0 dB	Mode Au	uto Sweep				
1 Max								
Limit Check		PA	SS					
Line _\$PURIO	US_LINE_ABS_	PA	SS					
-10 dBm								
20 dBm								
	BS							
-40 dBm								
50 dBm	بالدامات من			and the second	and the state of the state	New York, 1997, 1997, 1997		
alistic and a state of the stat	A superior of the second se	an grays yn sweriaethau an an an aithigt an aithigt	Manual and all	the sublicity of the sublicity of	والمراجع والسادة	the desired as in the delay	Provide Station of	and the state of the
Provident of the second se			2					
-70 dBm								
80 dBm								
-80 dBm								
80 dBm			270	12 pts			S	top 26.0 GHz
80 dBm 90 dBm Start 30.0 MHz purious Emissior			270	12 pts			S	top 26.0 GH2
80 dBm 90 dBm Start 30.0 MHz purious Emissior Range Low	ns Range Up		270 W	12 pts Freque	ncy	Power At	S	top 26.0 GHz ΔLimit
80 dBm 90 dBm Start 30.0 MHz purious Emissior Range Low 30.000 MHz	ns Range Up 2.387 GH	2 1.1	270	12 pts Freque 853.27	n <b>cy</b>	Power At -54.75	s dBm	top 26.0 GHz ΔLimit -28.75 dB
80 dBm 90 dBm Start 30.0 MHz purious Emissior Range Low 30.000 MHz 2.387 GHz	<b>Range Up</b> 2.387 GH 2.400 GH	Z 1.1 z 1.1	270 9W   000 MHz 000 MHz	12 pts Frequer 853.27 2.39	ncy   106 MHz 846 GHz	Power At -54.75 -58.14	DS BBM CHART	top 26.0 GHz ΔLimit -28.75 dE -42.14 dE
-80 dBm -90 dBm Start 30.0 MHz purious Emission Range Low 30.000 MHz 2.387 GHz 2.484 GHz	<b>Range Up</b> 2.387 GH 2.400 GH 2.497 GH	Z 1,1 Z 1,1 Z 1,1	270 300 MHz 000 MHz 000 MHz	12 pts Frequer 853.27 2.39 2.48	ncy   106 MHz   846 GHz   790 GHz	Power At -54.75 -58.14 -58.47	DS BBM GBM GBM GBM GBM GBM GBM GBM GBM GBM	top 26.0 GHz ΔLimit -28.75 dB -42.14 dB -42.47 dB

Date: 21.APR.2020 13:14:10

#### Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Cond

Report No.: HR/2020/3002102 Page: 186 of 205

## 4.11 Radiated Spurious Emission

**Branch** 

S

Test Requirement:	47 CFR Part 15C Section	15.209 and 15.205						
Test Method:	ANSI C63.10: 2013							
Test Site:	Measurement Distance: 3	Bm or 10m (Semi-Ane	echoic Chamb	oer)				
	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
Receiver Setup:	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak			
Receiver Setup.	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
		Peak	1MHz	10Hz	Average			
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measuremen t distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
	30MHz-88MHz	100	40.0	Quasi-peak	3			
Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3			
	216MHz-960MHz	200	46.0	Quasi-peak	3			
	960MHz-1GHz	500	54.0	Quasi-peak	3			
	Above 1GHz	500	54.0	Average	3			
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Te



Report No.: HR/2020/3002102 Page: 187 of 205





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format 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 excenter aptress to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refor only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@asp.com

SGS SGS-CS

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen

Report No.: HR/2020/3002102 Page: 188 of 205

	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.						
	b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.						
	c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.						
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.						
	e. Use the following spectrum analyzer settings:						
	<ol> <li>Span shall wide enough to fully capture the emission being measured;</li> </ol>						
	(2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz ; VBW ≥ RBW: Sweep = auto;						
	Detector function = peak: Trace = max hold for peak						
Toot Procedure:	<ul> <li>(3) For average measurement: use duty cycle correction factor method per 15.35(c).</li> </ul>						
Test Flocedule.	Duty cycle = On time/100 milliseconds						
	On time = N 1 * 1 + N 2 * 1 2 + $+$ N n-1 * N n-1 + N n * 1 n						
	Where N 1 is number of type 1 pulses $1 = 1$ is length of type 1 pulses, etc.						
	Average Emission Level = Peak Emission Level + 20*log(Duty cycle)						
	f For each suspected emission, the ELIT was arranged to its worst case						
	and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading						
	<ul> <li>g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> </ul>						
	h. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.						
	<ul> <li>Test the EUT in the lowest channel (2402MHz),the middle channel (2441MHz),the Highest channel (2480MHz)</li> </ul>						
	j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.						
	k. Repeat above procedures until all frequencies measured was complete.						
	Non-hopping transmitting mode with all kind of modulation and all kind of						
Exploratory Test Mode:	data type						



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-enDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Cilent's instructions, if any. The Company's sole responsibility is to its Cilent and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cosn to be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 26710594 www.sgsgroup.com.cn No.1 Workshop. M-10.1 Middle Section, Science & TechnologyPark, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.com

Member of the SGS Group (SGS SA)



Report No.: HR/2020/3002102 Page: 189 of 205

	Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

### 4.11.1 Radiated Emission below 1GHz

### 4.11.1.1 Charge + Transmitting, Vertical



Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	34.2689	21.29	-29.98	40.00	18.71	200	242	Horizontal			
2	82.5845	21.41	-35.52	40.00	18.59	200	260	Horizontal			
3	169.5139	22.16	-34.07	43.50	21.34	200	117	Horizontal			
4	209.4859	27.86	-30.99	43.50	15.64	100	304	Horizontal			
5	700.9862	26.64	-19.49	46.00	19.36	200	173	Horizontal			
6	917.9216	28.22	-15.83	46.00	17.78	100	325	Horizontal			



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format 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 excenter aptress to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refor only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@asp.com

Report No.: HR/2020/3002102 Page: 190 of 205



### 4.11.1.2 Charge + Transmitting, Horizontal

Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	36.0152	28.92	-29.63	40.00	11.08	100	14	Vertical		
2	50.7622	19.89	-30.48	40.00	20.11	100	293	Vertical		
3	80.6441	22.48	-35.99	40.00	17.52	200	335	Vertical		
4	199.7840	26.52	-31.20	43.50	16.98	200	346	Vertical		
5	296.0272	21.42	-28.41	46.00	24.58	100	354	Vertical		
6	991.0742	29.06	-14.91	54.00	24.94	200	9	Vertical		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions

> Report No.: HR/2020/3002102 Page: 191 of 205

## 4.11.2 Transmitter Emission above 1GHz

#### 4.11.2.1 Lowest Channel \_Vertical

S



Suspe	ected List						_	
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2933.4834	54.96	9.50	74.00	19.04	150	270	Vertical
2	2993.4984	44.34	9.48	54.00	9.66	150	70	Vertical
3	4804.0000	30.58	-18.30	54.00	23.42	150	252	Vertical
4	4804.0000	40.63	-18.30	74.00	33.37	150	72	Vertical
5	7206.0000	46.74	-10.09	74.00	27.26	150	136	Vertical
6	7206.0000	35.59	-10.09	54.00	18.41	150	91	Vertical
7	17957.6479	46.13	0.71	54.00	7.87	150	292	Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-enDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excenter aptress to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refor only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@asp.com

> Report No.: HR/2020/3002102 Page: 192 of 205



#### **Suspected List** Limit Margin Height Angle Freq. Level Factor NO. Polarity [MHz] [dBµV/m] [dB] [dBµV/m] [dB] [cm] [°] 2939.9850 55.78 9.57 74.00 18.22 150 142 Vertical 1 2 2957.4894 44.14 54.00 150 Vertical 9.65 9.86 56 4880.0000 29.34 -17.97 54.00 150 127 Vertical 3 24.66 4 4880.0000 40.47 -17.97 74.00 33.53 150 72 Vertical 5 7320.0000 46.55 -9.72 74.00 27.45 150 240 Vertical -9.72 17.96 150 Vertical 6 7320.0000 36.04 54.00 89 7 0.20 150 17863.0432 46.22 54.00 7.78 89 Vertical



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format 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 excenter aptress to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refor only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@asp.com

> Report No.: HR/2020/3002102 Page: 193 of 205



### 4.11.2.3 Highest Channel Vertical

Suspected List											
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2975.9940	55.44	9.56	74.00	18.56	150	54	Vertical			
2	2980.9952	43.81	9.54	54.00	10.19	150	54	Vertical			
3	4960.0000	29.09	-17.47	54.00	24.91	150	351	Vertical			
4	4960.0000	40.19	-17.47	74.00	33.81	150	18	Vertical			
5	7440.0000	48.00	-9.35	74.00	26.00	150	92	Vertical			
6	7440.0000	37.25	-9.35	54.00	16.75	150	142	Vertical			
7	17919.1460	46.40	0.70	54.00	7.60	150	192	Vertical			



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions

Report No.: HR/2020/3002102 Page: 194 of 205



#### 4.11.2.4 Lowest Channel \_Horizontal

S

Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2948.4871	55.05	9.66	74.00	18.95	150	52	Horizontal		
2	2988.4971	44.56	9.50	54.00	9.44	150	214	Horizontal		
3	4804.0000	29.71	-18.30	54.00	24.29	150	57	Horizontal		
4	4804.0000	41.06	-18.30	74.00	32.94	150	360	Horizontal		
5	7206.0000	45.51	-10.09	74.00	28.49	150	193	Horizontal		
6	7206.0000	35.76	-10.09	54.00	18.24	150	1	Horizontal		
7	17950.4975	46.25	0.71	54.00	7.75	150	93	Horizontal		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions/Terms-enDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excore excores and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on). Aftention: To check the authenticity of testing linspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CNLDoccheck@css.com



Report No.: HR/2020/3002102 Page: 195 of 205



#### 4.11.2.5 Middle Channel \_ Horizontal

Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2946.4866	55.00	9.64	74.00	19.00	150	192	Horizontal		
2	2992.9983	43.89	9.48	54.00	10.11	150	18	Horizontal		
3	4880.0000	29.57	-17.97	54.00	24.43	150	202	Horizontal		
4	4880.0000	41.62	-17.97	74.00	32.38	150	85	Horizontal		
5	7320.0000	47.48	-9.72	74.00	26.52	150	243	Horizontal		
6	7320.0000	36.20	-9.72	54.00	17.80	150	242	Horizontal		
7	17704.0852	46.08	1.28	54.00	7.92	150	91	Horizontal		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms/Terms-an

Report No.: HR/2020/3002102 Page: 196 of 205



### 4.11.2.6 Highest Channel \_ Horizontal

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2983.9960	55.37	9.52	74.00	18.63	150	50	Horizontal			
2	2996.9993	43.92	9.46	54.00	10.08	150	320	Horizontal			
3	4960.0000	28.87	-17.47	54.00	25.13	150	55	Horizontal			
4	4960.0000	40.72	-17.47	74.00	33.28	150	215	Horizontal			
5	7440.0000	47.89	-9.35	74.00	26.11	150	185	Horizontal			
6	7440.0000	37.36	-9.35	54.00	16.64	150	242	Horizontal			
7	17959.8480	46.83	0.71	54.00	7.17	150	242	Horizontal			

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

4) All Modes have been tested, but only the worst case data displayed in this report.



	Unless otherwise agreed in writing, this document is issued overleaf, available on request or accessible at <u>http://www.ses.c</u> subject to Terms and Conditions for Electronic Documents at Attention is drawn to the limitation of ilability, indemnification advised that information contained hereon reflects the Compa Client's instructions, if any. The Company's sole responsibility transaction from exercising all their rights and obligations un except in full, without prior written approval of the Company appearance of this document is unlawful and offenders may be results shown in this test report refer only to the sample(s) test	by the Co com/en/Ter http://www and jurisd iny's findin ity is to its der the tra Any unau prosecute d and such eport & ce	mpany subject to it ms-and-Conditions vsgs.com/en/Terms- iction issues define gs at the time of its o Client and this do ansaction documen thorized alteration, d to the fullest exte sample(s) are retain rtificate, please co	ts General Conditior aspx and, for electror -and-Conditions/Tern d therein. Any holdes intervention only ar coument does not e- ts. This document c forgery or falsificat not of the law. Unless ned for 30 days only. Intact us at telephon	ns of Service printed ic format documents, ns-e-Document.aspx. r of this document is d within the limits of conerate parties to a annot be reproduced ion of the content or otherwise stated the e: (86-755) 8307 1443,
Ltd.	No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China	518057	t (86-755) 26012053	f (86-755) 26710594	www.sgsgroup.com.cn
	山园, 深圳, 利坊园山区M 10栋—号厂房 邮编·	E100E7	+ (96 755) 26012053	f (86, 755) 26710504	sas china@sas com

Report No.: HR/2020/3002102 Page: 197 of 205

# 4.12 Restricted bands around fundamental frequency

Branch

47 CFR Part 15C Section 15.209 and 15.205					
ANSI C63.10: 2013					
Measurement Distance: 3	3m or 10m (Semi-Anechoic	: Chamber)			
Frequency	Limit (dBuV/m @3m)	Remark			
30MHz-88MHz	40.0	Quasi-peak Value			
88MHz-216MHz	43.5	Quasi-peak Value			
216MHz-960MHz	46.0	Quasi-peak Value			
960MHz-1GHz	54.0	Quasi-peak Value			
	54.0	Average Value			
	74.0	Peak Value			
	47 CFR Part 15C Section ANSI C63.10: 2013 Measurement Distance: 3 Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz	47 CFR Part 15C Section 15.209 and 15.205         ANSI C63.10: 2013         Measurement Distance: 3m or 10m (Semi-Anechoic         Frequency       Limit (dBuV/m @3m)         30MHz-88MHz       40.0         88MHz-216MHz       43.5         216MHz-960MHz       46.0         960MHz-1GHz       54.0         Above 1GHz       54.0			

Test Setup:





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-enDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excenter aptress to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refor only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@asp.com



Branch

Report No.: HR/2020/3002102 Page: 198 of 205

Test Procedure:	<ul> <li>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</li> </ul>
	Non-hopping transmitting mode with all kind of modulation and all kind of
Exploratory Test Mode:	data type
	Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Charge + Transmitting mode, Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions/Terms-enDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excore excores and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on). Aftention: To check the authenticity of testing linspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CNLDoccheck@css.com

Report No.: HR/2020/3002102 Page: 199 of 205



Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2367.0571	33.93	7.79	54.00	20.07	150	276	Horizontal		
2	2373.6637	47.29	7.79	74.00	26.71	150	304	Horizontal		
3	2390.0000	33.66	7.77	54.00	20.34	150	243	Horizontal		
4	2390.0000	46.38	7.77	74.00	27.62	150	332	Horizontal		
5	2404.0000	101.12	7.78	0.00	-101.12	150	52	Horizontal		
6	2404.0000	95.59	7.78	0.00	-95.59	150	60	Horizontal		



4.12.1

**Test plots** 

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions/Terms-enDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excente the approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on). Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.DoccheeK@gs.com

Report No.: HR/2020/3002102 Page: 200 of 205



#### 4.12.1.2 Lowest Channel\_Vertical

**Branch** 

S

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	2368.8589	48.33	7.79	74.00	25.67	150	33	Vertical			
2	2368.8589	33.92	7.79	54.00	20.08	150	224	Vertical			
3	2390.0000	33.81	7.77	54.00	20.19	150	52	Vertical			
4	2390.0000	46.47	7.77	74.00	27.53	150	81	Vertical			
5	2404.0000	86.34	7.78	0.00	-86.34	150	228	Vertical			
6	2404.0000	81.76	7.78	0.00	-81.76	150	228	Vertical			



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions/Terms-end-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Conditions/Terms-end-Condition

> Report No.: HR/2020/3002102 Page: 201 of 205



Limit

[dBµV/m]

0.00

0.00

74.00

54.00

54.00

74.00

Margin

[dB]

-101.19

-95.77

19.20

16.06

19.14

24.96

Height

[cm]

150

150

150

150

150

150

Angle

[°]

244

249

244

249

41

293

Polarity

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

#### 4.12.1.3 Highest Channel\_Horizontal

	上服务	有限公司		
24	AL MAN		Real Provide State	
運			E HI	
See	检验检 Inspection & T	则专用章 Festing Serv	ices the	
SGS-CST	2 Condards Te	chnical Se	Co I	td

Suspected List

NO.

1

2

3

4

5

6

Freq.

[MHz]

2478.0000

2478.0000

2483.5000

2483.5000

2488.4442

2489.2446

Level

[dBµV/m]

101.19

95.77

54.80

37.94

34.86

49.04

Factor

[dB]

8.00

8.00

8.01

8.01

8.02

8.02

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions">http://www.sgs.com/en/Terms-and-Conditions</a>. Sapx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions">http://www.sgs.com/en/Terms-and-Conditions</a>. Sapx and, for electronic format documents, subject to Terms and Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/Terms-and-Conditions/T

> Report No.: HR/2020/3002102 Page: 202 of 205



#### 4.12.1.4 Highest Channel Vertical

Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	2478.0000	87.22	8.00	0.00	-87.22	150	275	Vertical		
2	2478.0000	78.62	8.00	0.00	-78.62	150	14	Vertical		
3	2483.5000	46.22	8.01	74.00	27.78	150	325	Vertical		
4	2483.5000	34.07	8.01	54.00	19.93	150	275	Vertical		
5	2492.2961	34.56	8.02	54.00	19.44	150	357	Vertical		
6	2492.4962	47.74	8.02	74.00	26.26	150	72	Vertical		

#### Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor All Modes have been tested, but only the worst case data displayed in this report.



Report No.: HR/2020/3002102 Page: 203 of 205

# 5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.75dB		
2	RF power density, conducted	±2.84dB		
3	Spurious emissions, conducted	±0.75dB		
4	Redicted Spurious optication test	±4.5dB (30MHz-1GHz)		
4	Radiated Spurious emission test	±4.8dB (1GHz-25GHz)		
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)		
6	Temperature test	±1°C		
7	Humidity test	±3%		
8	DC and low frequency voltages	±0.5%		



S

**Branch** 

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions/Terms-enDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excore excores and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days on). Aftention: To check the authenticity of testing linspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CNLDoccheck@css.com