



No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan
District, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053
Fax: +86 (0) 755 2671 0594
Email: ee.shenzhen@sgs.com

Report No.: SZEM160200065905
Page: 1 of 306

FCC REPORT

Application No: SZEM1602000659CR

Applicant: Embest Technology Co., Ltd

Manufacturer: Embest Technology Co., Ltd

Factory: Embest Technology Co., Ltd

Product Name: MCIMX7SABRE

Model No.(EUT): MCIMX7SABRE

FCC ID: 2AFLY-MCIMX7SABRE

Standards: 47 CFR Part 15, Subpart E (2015)

Date of Receipt: 2016-03-10

Date of Test: 2016-03-23 to 2016-04-06

Date of Issue: 2016-04-18

Test Result:	PASS *
---------------------	---------------

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

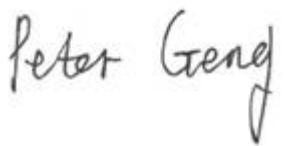
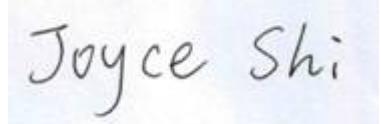
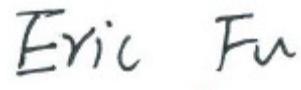
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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



2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2016-04-18		Original

Authorized for issue by:			
Tested By		 (Peter Geng /Project Engineer)	2016-04-06
Prepared By		 (Joyce Shi) /Clerk	2016-04-18
Checked By		 (Eric Fu) /Reviewer	2016-04-18



3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Section 15.203	ANSI C63.10: 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Conducted Output Power	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
Equivalent Isotropic Radiated Power (e.i.r.p.)	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15 Section 15.407(e)	ANSI C63.10: 2013	PASS
26 dB Emission Bandwidth & 99% Occupied Bandwidth	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
Power Spectral Density	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Frequency Stability	47 CFR Part 15 Section 15.407(g)	ANSI C63.10: 2013	PASS



4 Contents

	Page
1 COVER PAGE	1
2 VERSION.....	2
3 TEST SUMMARY	3
4 CONTENTS.....	4
5 GENERAL INFORMATION	5
5.1 CLIENT INFORMATION.....	5
5.2 GENERAL DESCRIPTION OF EUT.....	5
5.3 TEST ENVIRONMENT AND MODE.....	8
5.4 DESCRIPTION OF SUPPORT UNITS.....	8
5.5 TEST LOCATION.....	8
5.6 TEST FACILITY.....	9
5.7 DEVIATION FROM STANDARDS	9
5.8 ABNORMALITIES FROM STANDARD CONDITIONS	9
5.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER	9
5.10 EQUIPMENT LIST	10
6 TEST RESULTS AND MEASUREMENT DATA.....	13
6.1 ANTENNA REQUIREMENT	13
6.2 CONDUCTED EMISSIONS	14
6.3 CONDUCTED OUTPUT POWER.....	18
6.4 EQUIVALENT ISOTROPIC RADIATED POWER (E.I.R.P.).....	59
6.5 26dB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH.....	63
6.6 6dB EMISSION BANDWIDTH.....	133
6.7 POWER SPECTRAL DENSITY.....	142
6.8 RADIATED SPURIOUS EMISSIONS	179
6.8.1 Radiated emission below 1GHz.....	181
6.8.2 Transmitter emission above 1GHz.....	183
6.9 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	213
6.10 FREQUENCY STABILITY.....	ERROR! BOOKMARK NOT DEFINED.
7 PHOTOGRAPHS - EUT TEST SETUP.....	ERROR! BOOKMARK NOT DEFINED.
7.1 CONDUCTED EMISSION	ERROR! BOOKMARK NOT DEFINED.
7.2 RADIATED EMISSION.....	ERROR! BOOKMARK NOT DEFINED.
7.3 RADIATED SPURIOUS EMISSION	ERROR! BOOKMARK NOT DEFINED.
8 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	ERROR! BOOKMARK NOT DEFINED.





5 General Information

5.1 Client Information

Applicant:	Embest Technology Co., Ltd		
Address of Applicant:	Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park, Liuxian Ave, No,1183, Nanshan District, Shenzhen, Guangdong, China		
Manufacturer:	Embest Technology Co., Ltd		
Address of Manufacturer:	Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park, Liuxian Ave, No,1183, Nanshan District, Shenzhen, Guangdong, China		
Factory:	Embest Technology Co., Ltd		
Address of Factory:	Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park, Liuxian Ave, No,1183, Nanshan District, Shenzhen, Guangdong, China		

5.2 General Description of EUT

Product Name:	MCIMX7SABRE			
Model No.:	MCIMX7SABRE			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
UNII Band I	IEEE 802.11a	5180-5240	4	
	IEEE 802.11n/ac 20MHz	5180-5240	4	
	IEEE 802.11n/ac 40MHz	5190-5230	2	
	IEEE 802.11ac 80MHz	5210	1	
UNII Band II-A	IEEE 802.11a	5260-5320	4	
	IEEE 802.11n/ac 20MHz	5260-5320	4	
	IEEE 802.11n/ac 40MHz	5270-5310	2	
	IEEE 802.11ac 80MHz	5290	1	
UNII Band II-C	IEEE 802.11a	5500-5700	11	
	IEEE 802.11n/ac 20MHz	5500-5700	11	
	IEEE 802.11n/ac 40MHz	5510-5670	5	
	IEEE 802.11ac 80MHz	5530-5610	3	
UNII Band III	IEEE 802.11a	5745-5825	5	
	IEEE 802.11n/ac 20MHz	5745-5825	5	
	IEEE 802.11n/ac 40MHz	5755-5795	2	
	IEEE 802.11ac 80MHz	5775	1	
* The 5600-5650MHz can not be used in Canada.				
Type of Modulation:	IEEE 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11n: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)			
Sample Type:	Fixed production			
Antenna Type:	Integral			
Antenna Gain:	0dBi			
Power Supply	Model : WT0504000 INPUT: AC 100-240V, 50/60Hz OUTPUT: DC 5V, 4A			
Test Voltage:	AC 120V/60Hz			



Note:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5180
	The Middle channel	5220
	The Highest channel	5240
IEEE 802.11n/ac 40MHz	The Lowest channel	5190
	The Highest channel	5230
IEEE 802.11ac 80MHz	One channel	5210

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5260
	The Middle channel	5280
	The Highest channel	5320
IEEE 802.11n/ac 40MHz	The Lowest channel	5270
	The Highest channel	5310
IEEE 802.11ac 80MHz	One channel	5290



For UNII Band II-C:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n 20MHz	The Lowest channel	5500
	The Middle channel	5580
	The Highest channel	5700
IEEE 802.11n 40MHz	The Lowest channel	5510
	The Middle channel	5550
	The Highest channel	5670
IEEE 802.11ac 80MHz	The Lowest channel	5530
	The Middle channel	5610
	The Highest channel	5690

For UNII Band III:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n/ac 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac 80MHz	One channel	5775



5.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	53 % RH
Atmospheric Pressure:	1020mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

5.4 Description of Support Units

The EUT has been tested independent unit.

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
MITSUBISHI Television	MITSUBISHI	AX025	REF. No.SEA2600
U-disk	Color turn	UL4GHKXG	REF. No.SEA0100
Router	NETGEAR	DGN2200	REF. No.SEA2200
Earphone	PHILIPS	SHE6000	REF. No.SEA1000
Mini USB Cable	SANBO	SU-T21	REF. No.SEA0700
HDMI Cable	SGS	N/A	REF. No.SEA0900
Network Cable	SGS	N/A	REF. No.SEA1100

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- **Industry Canada (IC)**

The 3m Semi-anechoic chambers and the 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2, 4620C-3.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



5.10 Equipment List

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2015-05-13	2016-05-13
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2015-10-09	2016-10-09
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2015-05-13	2016-05-13
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T8-02	SEL0162	2015-08-30	2016-08-30
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T4-02	SEL0163	2015-08-30	2016-08-30
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T2-02	SEL0164	2015-08-30	2016-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2015-05-13	2016-05-13
8	Coaxial Cable	SGS	N/A	SEL0025	2015-05-13	2016-05-13
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09
10	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24	2016-10-24
11	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 11 of 306

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-05-13	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16	2016-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-11-15	2017-11-15
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-17	2016-10-17
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2014-11-24	2017-11-24
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-13	2016-05-13
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-17	2016-10-17
9	Coaxial cable	SGS	N/A	SEL0027	2015-05-13	2016-05-13
10	Coaxial cable	SGS	N/A	SEL0189	2015-05-13	2016-05-13
11	Coaxial cable	SGS	N/A	SEL0121	2015-05-13	2016-05-13
12	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13
13	Band filter	Amindeon	82346	SEL0094	2015-05-13	2016-05-13
14	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09
16	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24	2016-10-24
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-13	2016-05-13
18	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-05-13	2016-05-13

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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 12 of 306

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2015-05-13	2016-05-13
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2015-10-09	2016-10-09
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
6	Low Noise Amplifier	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2015-10-09	2016-10-09
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A

RF connected test						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2015-10-09	2016-10-09
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2015-10-17	2016-10-17
3	Barometer	ChangChun	DYM3	SEM002-01	2015-05-13	2016-05-13
4	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25
5	Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2015-10-09	2016-10-09

6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
	The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
Test Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)		Limit (dBuV)
			Quasi-peak Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 		



Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

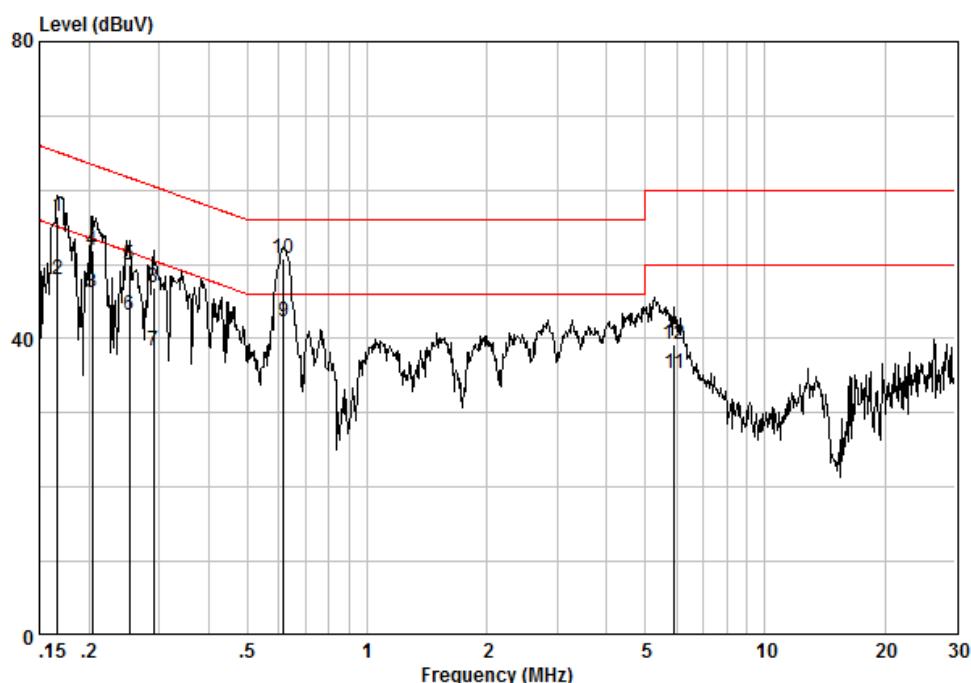


Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

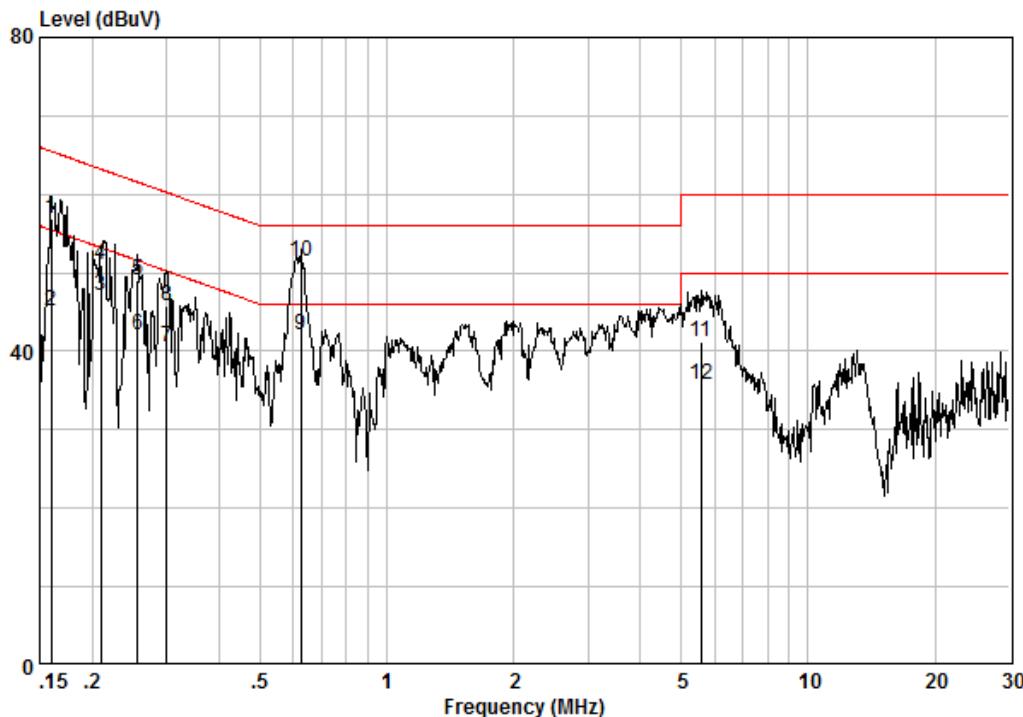
Live Line:



Site : Shielding Room
Condition : CE LINE
Job No. : 0659CR
Test Mode : Tx mode(Wi-Fi)

	Freq	Cable	LISN	Read	Limit	Over	Remark
		Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.16677	0.02	9.60	46.86	56.48	65.12	-8.64 QP
2	0.16677	0.02	9.60	38.23	47.85	55.12	-7.27 Average
3	0.20396	0.02	9.60	36.65	46.27	53.45	-7.18 Average
4	0.20396	0.02	9.60	42.30	51.92	63.45	-11.53 QP
5	0.25211	0.02	9.60	40.21	49.82	61.69	-11.86 QP
6	0.25211	0.02	9.60	33.58	43.19	51.69	-8.49 Average
7	0.29088	0.01	9.59	28.85	38.45	50.50	-12.05 Average
8	0.29088	0.01	9.59	37.22	46.82	60.50	-13.68 QP
9 @	0.61726	0.02	9.61	32.58	42.21	46.00	-3.79 Average
10	0.61726	0.02	9.61	41.26	50.89	56.00	-5.11 QP
11	5.929	0.01	9.67	25.71	35.39	50.00	-14.61 Average
12	5.929	0.01	9.67	29.49	39.16	60.00	-20.84 QP

Neutral Line:



Site : Shielding Room
Condition : CE NEUTRAL
Job No. : 0659CR
Test Mode : Tx mode(Wi-Fi)

Freq	Cable	LISN	Read	Limit		Over	Remark
	Loss	Factor	Level	Level	Line	Line	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.15985	0.02	9.61	47.32	56.95	65.47	-8.52 QP
2	0.15985	0.02	9.61	35.46	45.09	55.47	-10.39 Average
3	0.20944	0.02	9.62	37.56	47.19	53.23	-6.04 Average
4	0.20944	0.02	9.62	41.32	50.95	63.23	-12.28 QP
5	0.25615	0.02	9.61	39.35	48.97	61.56	-12.58 QP
6	0.25615	0.02	9.61	32.35	41.97	51.56	-9.58 Average
7	0.30028	0.01	9.62	30.83	40.46	50.24	-9.77 Average
8	0.30028	0.01	9.62	36.13	45.76	60.24	-14.48 QP
9	0.62383	0.02	9.63	32.50	42.15	46.00	-3.85 Average
10	0.62383	0.02	9.63	41.85	51.49	56.00	-4.51 QP
11	5.564	0.01	9.73	31.40	41.13	60.00	-18.87 QP
12	5.564	0.01	9.73	25.97	35.71	50.00	-14.29 Average

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

6.3 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)											
Test Method:	ANSI C63.10: 2013											
Test Setup:												
	<p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>											
Test Instruments:	Refer to section 5.10 for details											
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates											
Final Test Mode:	Through Pre-scan, 6Mbps of rate is the worst case of 802.11a; 6.5Mbps of rate is the worst case of 802.11n(HT20); 6.5Mbps of rate is the worst case of 802.11ac 20; 13.5Mbps of rate is the worst case of 802.11n(HT40); 13.5Mbps of rate is the worst case of 802.11ac 40; 29.2Mbps of rate is the worst case of 802.11ac 80.											
Limit:	<table border="1"> <thead> <tr> <th>Frequency Band</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td>5150-5250MHz</td> <td>Not exceed 250mW(24dBm)</td> </tr> <tr> <td>5250-5350MHz</td> <td>The lesser of 250mW(24dBm) or $11 + 10\log B$</td> </tr> <tr> <td>5470-5725MHz</td> <td>The lesser of 250mW(24dBm) or $11 + 10\log B$</td> </tr> <tr> <td>5725-5850MHz</td> <td>Not exceed 1W(30dBm)</td> </tr> </tbody> </table> <p>*Where B is the 26dB emission bandwidth in MHz</p>		Frequency Band	Limit	5150-5250MHz	Not exceed 250mW(24dBm)	5250-5350MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$	5470-5725MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$	5725-5850MHz	Not exceed 1W(30dBm)
Frequency Band	Limit											
5150-5250MHz	Not exceed 250mW(24dBm)											
5250-5350MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$											
5470-5725MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$											
5725-5850MHz	Not exceed 1W(30dBm)											
Test Results:	Pass											

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 19 of 306

Pre-scan under all rate at lowest channel 1

802.11a Band I								
Mode	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	11.83	11.77	11.76	11.71	11.68	11.67	11.62	11.60
802.11a Band II								
Mode	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	13.89	13.86	13.84	13.78	13.72	13.71	13.69	13.66
802.11a Band III								
Mode	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	12.48	12.42	12.41	12.34	12.33	12.31	12.29	12.27
802.11a Band IV								
Mode	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	11.80	11.75	11.70	11.66	11.62	11.61	11.59	11.57
802.11n (HT20) Band I								
Mode	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	11.76	11.71	11.70	11.65	11.60	11.55	11.52	11.48
802.11n (HT20) Band II								
Mode	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	13.98	13.92	13.89	13.88	13.87	13.84	13.79	13.77
802.11n (HT20) Band III								
Mode	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	12.57	12.55	12.54	12.50	12.43	12.36	12.30	12.23
802.11n (HT20) Band IV								
Mode	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	11.94	11.93	11.90	11.86	11.80	11.74	11.70	11.65

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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 20 of 306

Mode	802.11ac 20 Band I									
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps	78MHz	86.7MHz
Power (dBm)	10.32	10.27	10.20	10.19	10.16	10.11	10.10	10.09	10.07	10.02
Mode	802.11ac 20 Band II									
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps	78MHz	86.7MHz
Power (dBm)	11.89	11.83	11.76	11.69	11.62	11.55	11.52	11.49	11.35	11.29
Mode	802.11ac 20 Band III									
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps	78MHz	86.7MHz
Power (dBm)	13.12	13.05	13.03	12.97	12.90	12.88	12.82	12.77	12.72	12.69
Mode	802.11ac 20 Band IV									
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps	78MHz	86.7MHz
Power (dBm)	13.47	13.46	13.44	13.41	13.35	13.33	13.28	13.25	13.21	13.18
Mode	802.11n (HT40) Band I									
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps		
Power (dBm)	10.71	10.64	10.63	10.56	10.52	10.48	10.46	10.44		
Mode	802.11n (HT40) Band II									
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps		
Power (dBm)	12.43	12.37	12.33	12.27	12.20	12.15	12.09	12.08		
Mode	802.11n (HT40) Band III									
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps		
Power (dBm)	13.42	13.39	13.35	13.29	13.22	13.15	13.13	13.11		
Mode	802.11n (HT40) Band IV									
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps		
Power (dBm)	13.49	13.48	13.41	13.39	13.36	13.31	13.27	13.24		

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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 21 of 306

Mode	802.11ac 40 Band I									
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps	162MHz	180MHz
Power (dBm)	10.71	10.70	10.64	10.62	10.60	10.56	10.53	10.48	10.34	10.26
Mode	802.11ac 40 Band II									
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps	162MHz	180MHz
Power (dBm)	12.45	12.42	12.35	12.29	12.25	12.23	12.22	12.17	12.06	12.01
Mode	802.11ac 40 Band III									
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps	162MHz	180MHz
Power (dBm)	13.31	13.26	13.20	13.17	13.10	13.04	13.00	12.98	12.88	12.79
Mode	802.11ac 40 Band IV									
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps	162MHz	180MHz
Power (dBm)	13.56	13.53	13.52	13.49	13.48	13.41	13.40	13.34	13.32	13.25
Mode	802.11ac 80 Band I									
Data Rate	29.2Mbps	58.5Mbps	87.8Mbps	117Mbps	175.5Mbps	234Mbps	263.2Mbps	292.5Mbps	351Mbps	390Mbps
Power (dBm)	12.21	12.19	12.12	12.06	12.01	11.95	11.90	11.85	11.78	11.72
Mode	802.11ac 80 Band II									
Data Rate	29.2Mbps	58.5Mbps	87.8Mbps	117Mbps	175.5Mbps	234Mbps	263.2Mbps	292.5Mbps	351Mbps	390Mbps
Power (dBm)	11.21	11.17	11.14	11.08	11.07	11.01	10.97	10.93	10.87	10.76
Mode	802.11ac 80 Band III									
Data Rate	29.2Mbps	58.5Mbps	87.8Mbps	117Mbps	175.5Mbps	234Mbps	263.2Mbps	292.5Mbps	351Mbps	390Mbps
Power (dBm)	13.81	13.75	13.68	13.61	13.55	13.54	13.52	13.49	13.35	13.31
Mode	802.11ac 80 Band IV									
Data Rate	29.2Mbps	58.5Mbps	87.8Mbps	117Mbps	175.5Mbps	234Mbps	263.2Mbps	292.5Mbps	351Mbps	390Mbps
Power (dBm)	13.38	13.37	13.36	13.30	13.23	13.21	13.17	13.11	13.09	13.02

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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 22 of 306

Through Pre-scan, 6Mbps of rate is the worst case of 802.11a; 6.5Mbps of rate is the worst case of 802.11n(HT20); 6.5Mbps of rate is the worst case of 802.11ac 20; 13.5Mbps of rate is the worst case of 802.11n(HT40); 13.5Mbps of rate is the worst case of 802.11ac 40; 29.2Mbps of rate is the worst case of 802.11ac 80.

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 23 of 306

Measurement Data:

802.11a mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5180	11.83	24.00	Pass
5200	12.61	24.00	Pass
5240	13.52	24.00	Pass
5260	13.89	24.00	Pass
5300	13.71	24.00	Pass
5320	13.42	24.00	Pass
5500	12.48	24.00	Pass
5580	13.28	24.00	Pass
5600	13.35	24.00	Pass
5700	12.59	24.00	Pass
5745	11.80	30.00	Pass
5785	10.35	30.00	Pass
5825	9.25	30.00	Pass

802.11 n20 mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5180	11.76	24.00	Pass
5200	12.65	24.00	Pass
5240	13.57	24.00	Pass
5260	13.98	24.00	Pass
5300	13.87	24.00	Pass
5320	13.63	24.00	Pass
5500	12.57	24.00	Pass
5580	13.45	24.00	Pass
5600	13.45	24.00	Pass
5700	12.72	30.00	Pass
5745	11.94	30.00	Pass
5785	10.60	30.00	Pass
5825	9.49	30.00	Pass

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 24 of 306

802.11ac 20 mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5180	10.32	24.00	Pass
5220	10.47	24.00	Pass
5240	11.44	24.00	Pass
5260	11.89	24.00	Pass
5300	12.51	24.00	Pass
5320	12.53	24.00	Pass
5500	13.12	24.00	Pass
5580	13.07	24.00	Pass
5600	12.96	24.00	Pass
5700	13.28	24.00	Pass
5745	13.47	30.00	Pass
5785	13.11	30.00	Pass
5825	12.63	30.00	Pass

802.11 n40 mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5190	10.71	24.00	Pass
5230	11.43	24.00	Pass
5270	12.43	24.00	Pass
5310	12.82	24.00	Pass
5510	13.42	24.00	Pass
5550	13.25	24.00	Pass
5590	13.24	24.00	Pass
5670	13.48	24.00	Pass
5755	13.49	24.00	Pass
5795	13.02	30.00	Pass



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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 25 of 306

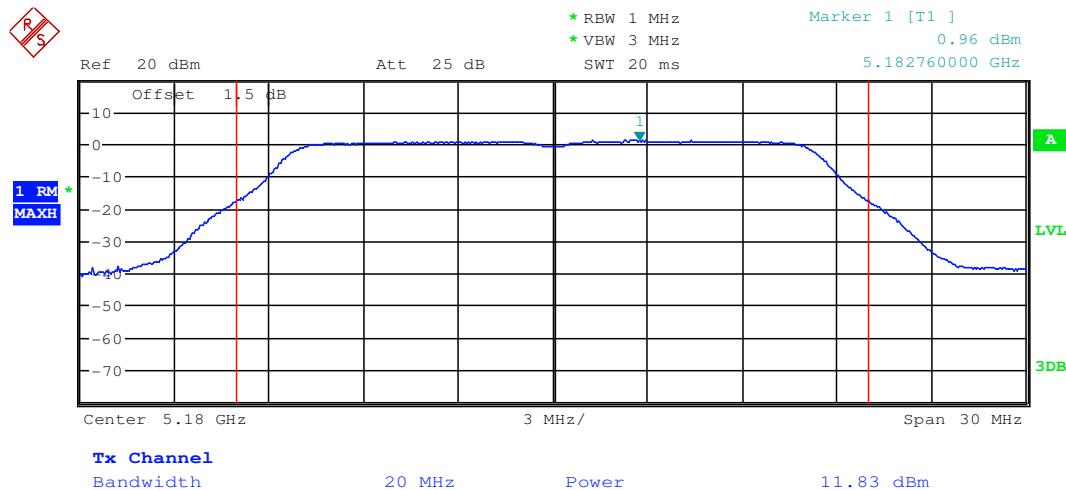
802.11ac 40 mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5190	10.71	24.00	Pass
5230	11.42	24.00	Pass
5270	12.45	24.00	Pass
5310	12.56	24.00	Pass
5510	13.31	24.00	Pass
5550	13.05	24.00	Pass
5590	13.10	24.00	Pass
5670	13.30	24.00	Pass
5755	13.56	30.00	Pass
5795	13.22	30.00	Pass

802.11ac 80 mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5210	12.21	24.00	Pass
5290	11.21	24.00	Pass
5530	13.81	24.00	Pass
5610	12.21	24.00	Pass
5690	11.02	24.00	Pass
5775	13.38	30.00	Pass

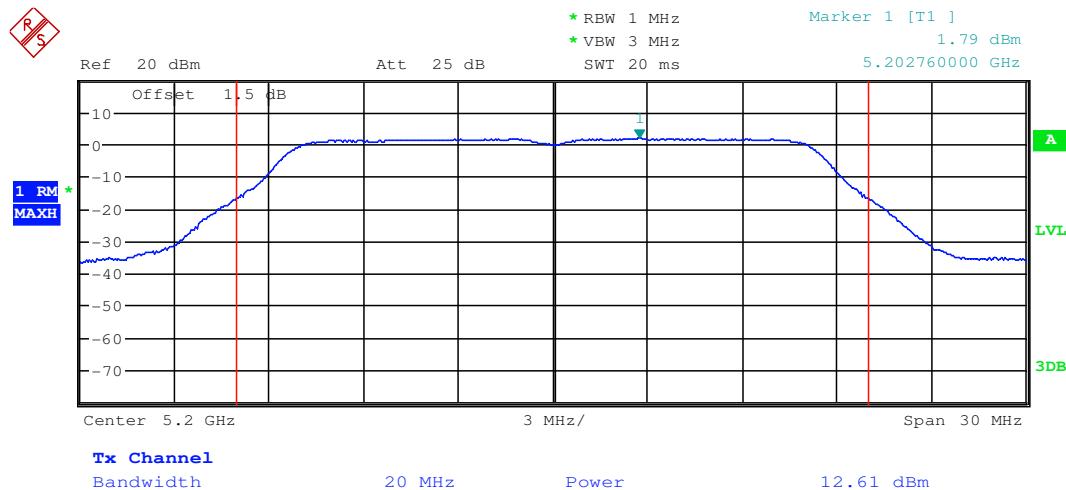


Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5200
------------	---------	-----------------	------

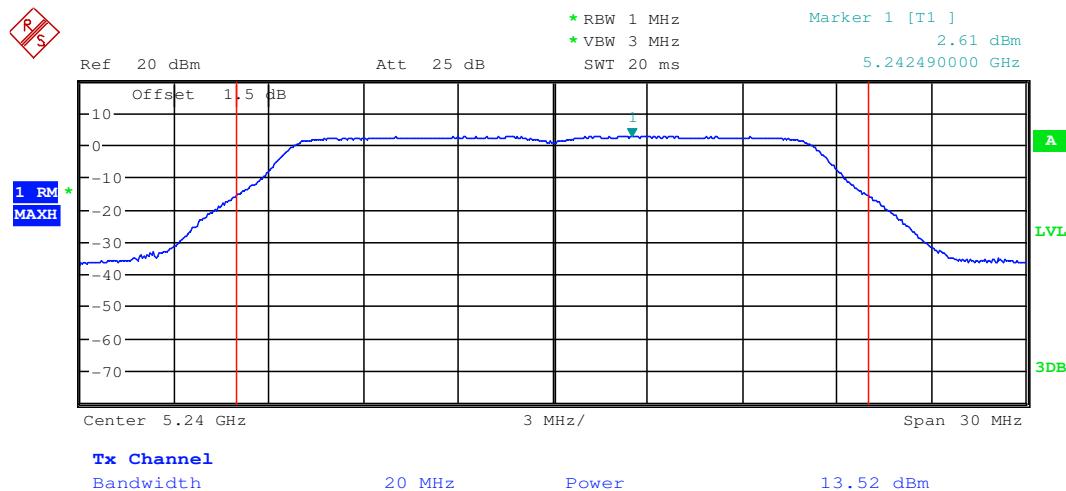


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

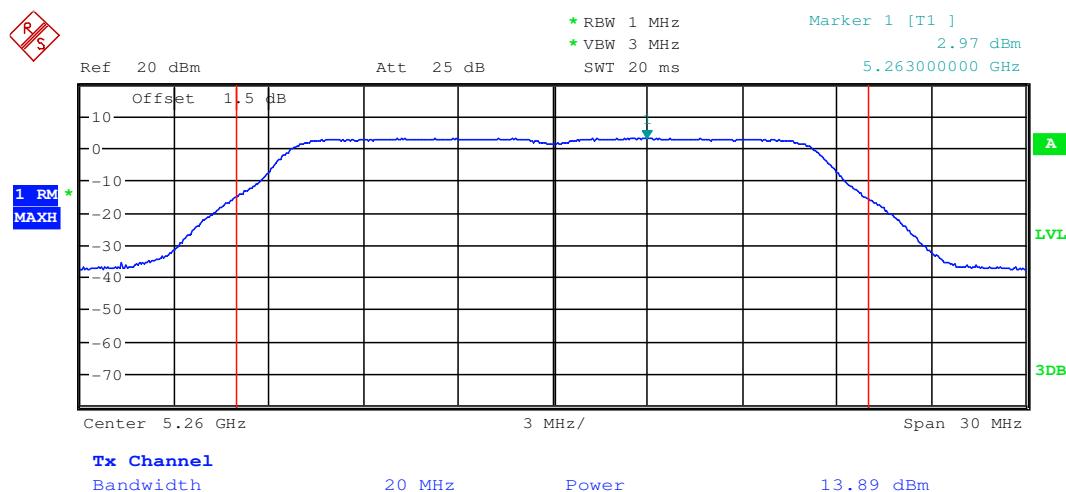


Report No.: SZEM160200065905
 Page: 27 of 306

Test mode:	802.11a	Frequency(MHz):	5240
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5260
------------	---------	-----------------	------

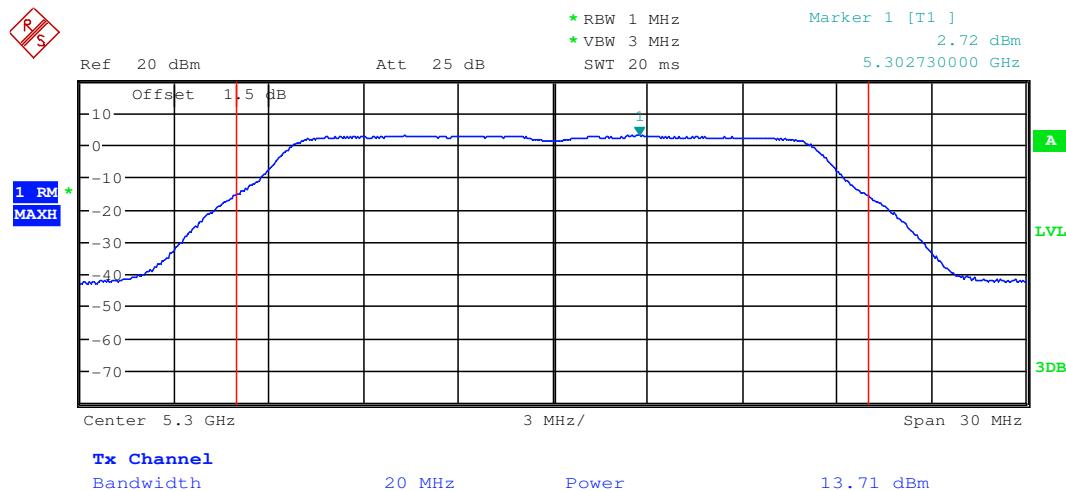


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

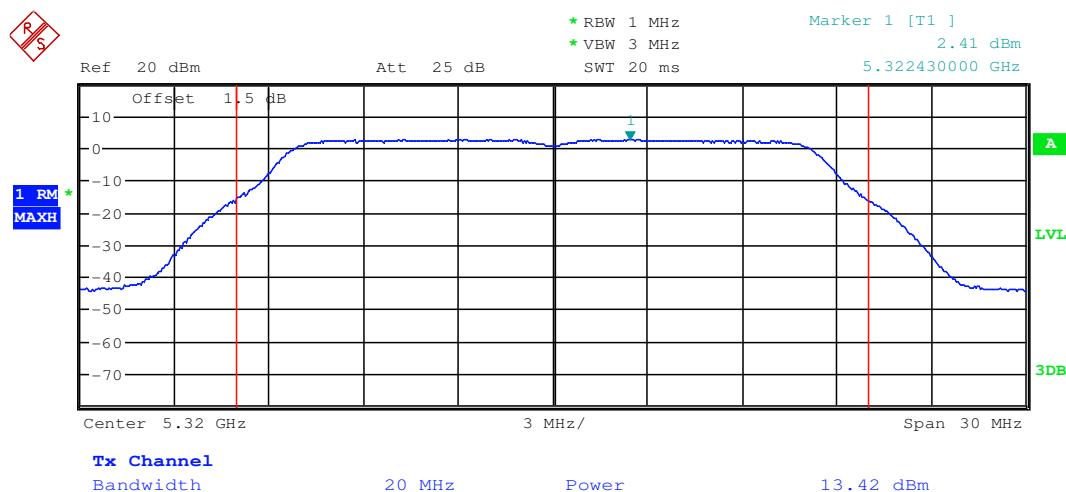


Report No.: SZEM160200065905
 Page: 28 of 306

Test mode:	802.11a	Frequency(MHz):	5300
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5320
------------	---------	-----------------	------

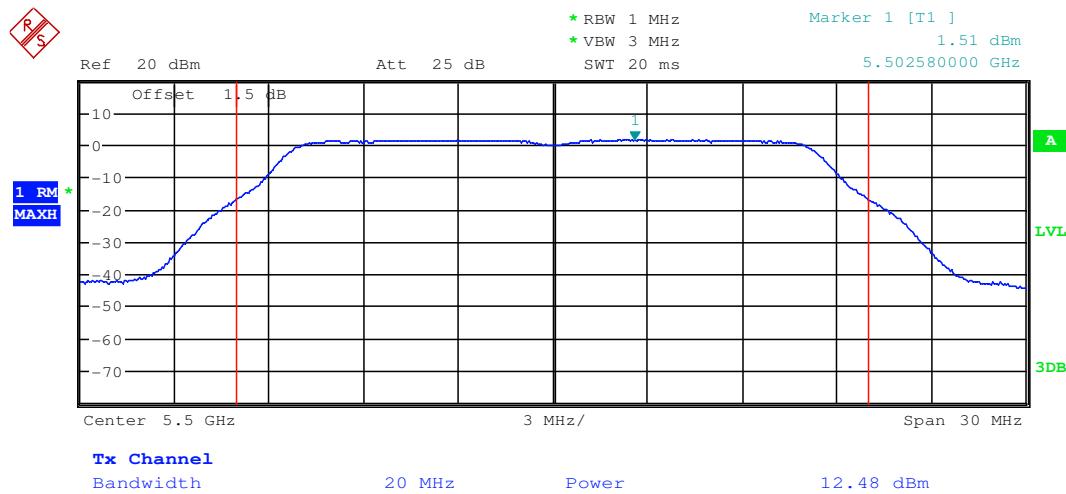


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

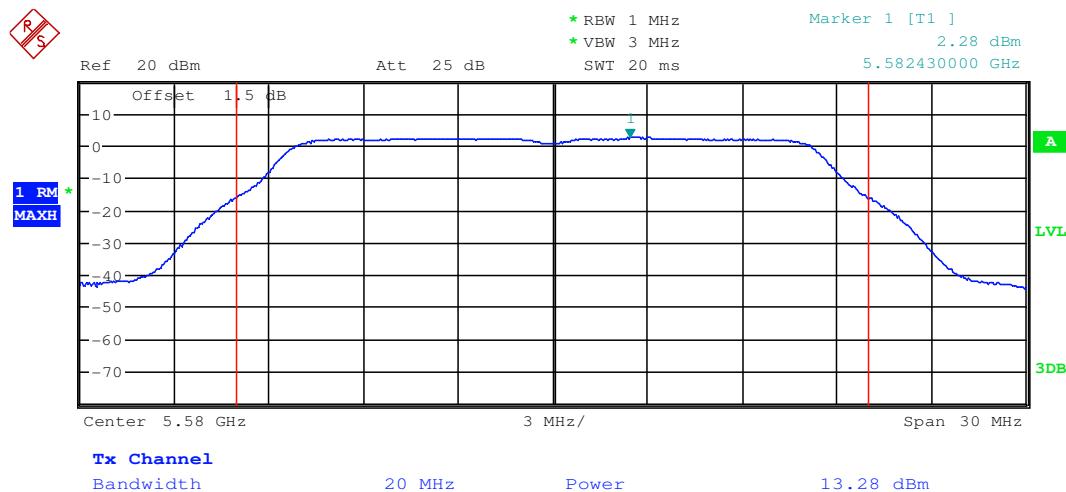


Report No.: SZEM160200065905
Page: 29 of 306

Test mode:	802.11a	Frequency(MHz):	5500
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5580
------------	---------	-----------------	------

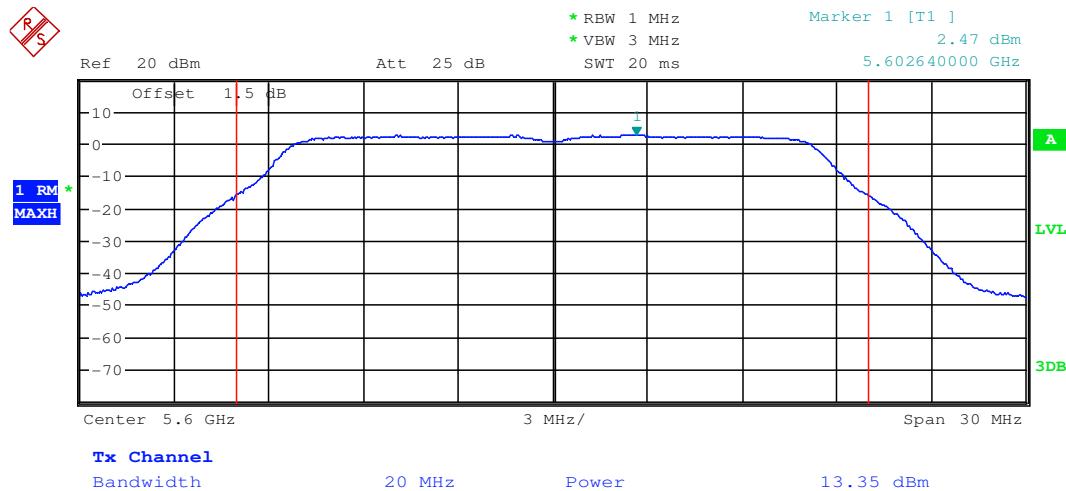


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

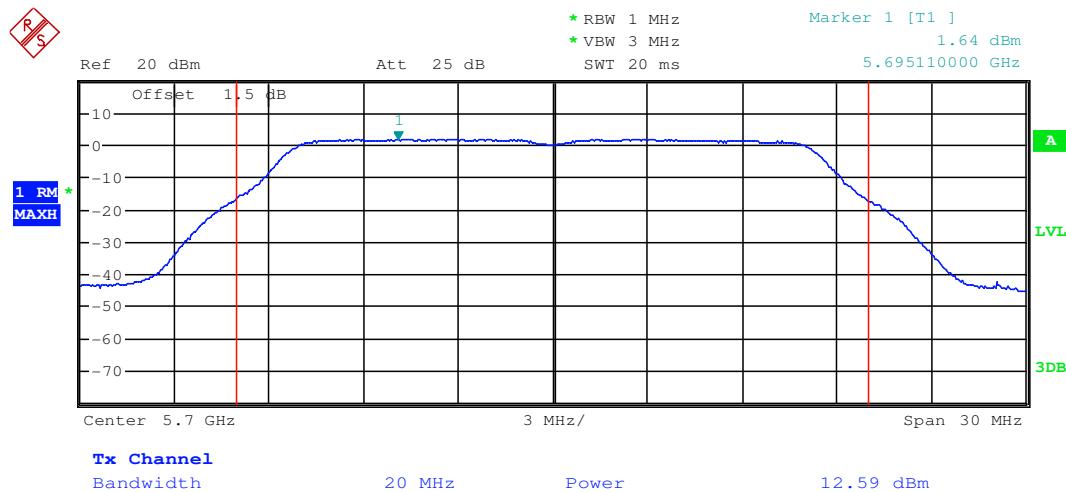


Report No.: SZEM160200065905
Page: 30 of 306

Test mode:	802.11a	Frequency(MHz):	5600
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5700
------------	---------	-----------------	------

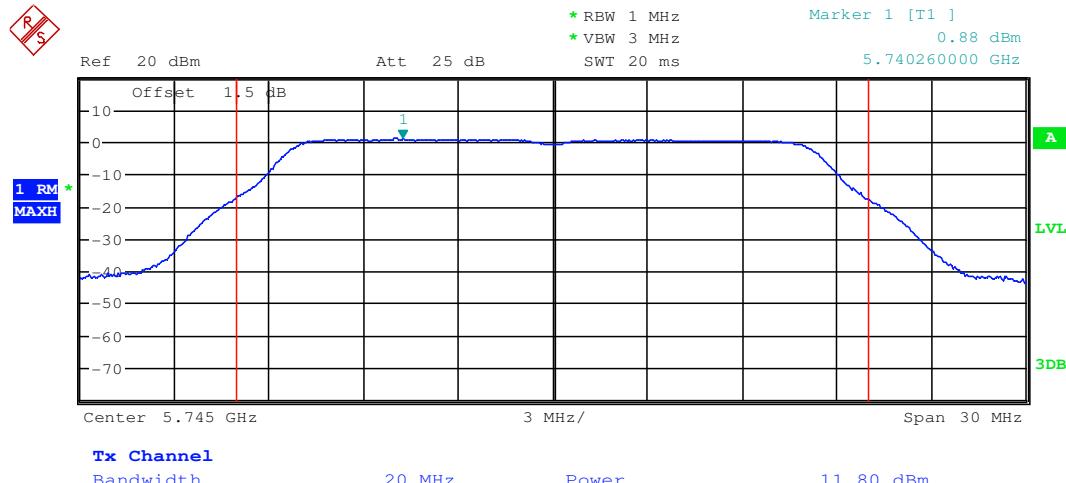


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

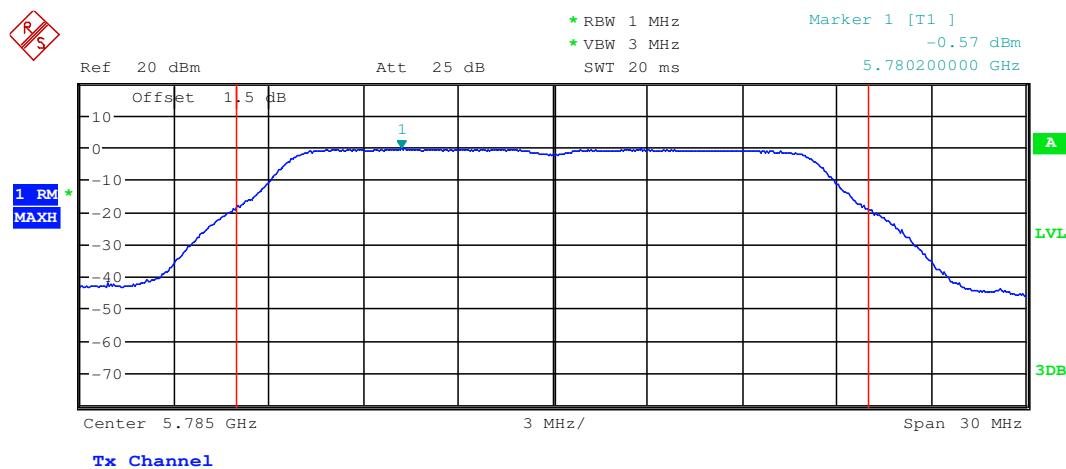


Report No.: SZEM160200065905
Page: 31 of 306

Test mode:	802.11a	Frequency(MHz):	5745
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5785
------------	---------	-----------------	------

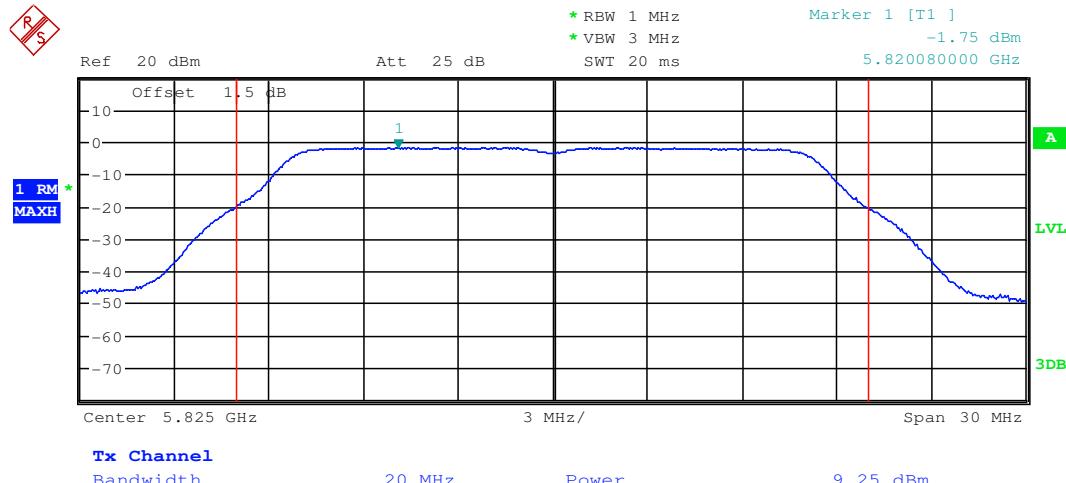


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

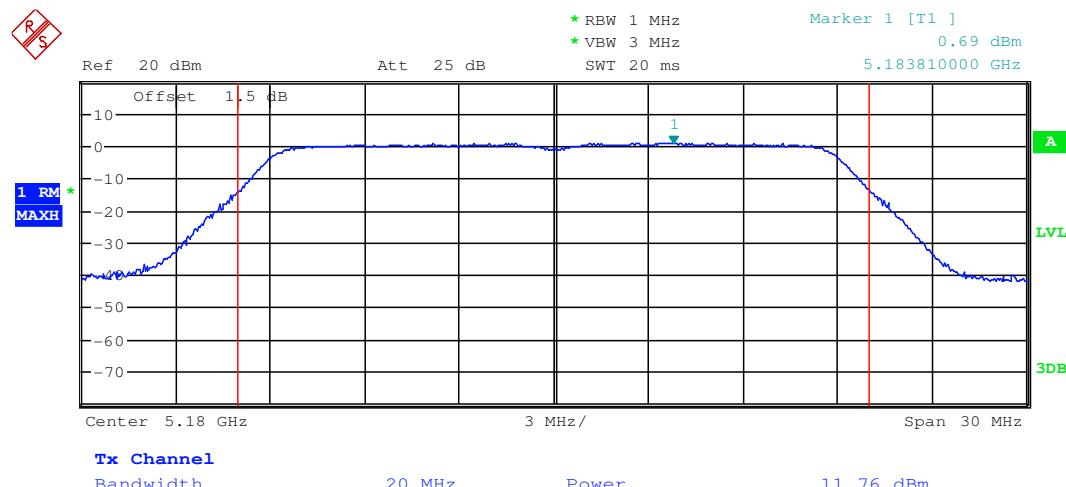


Report No.: SZEM160200065905
Page: 32 of 306

Test mode:	802.11a	Frequency(MHz):	5825
------------	---------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5180
------------	------------	-----------------	------

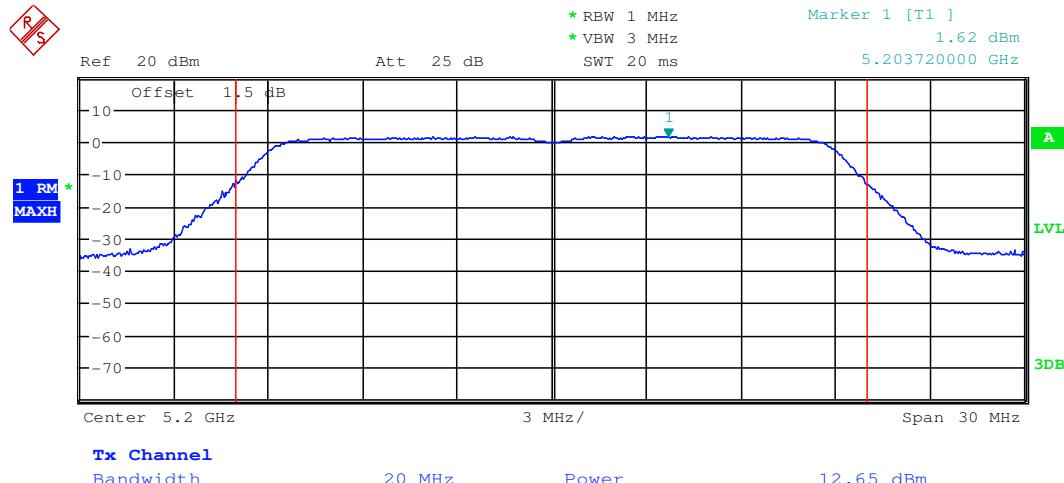


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

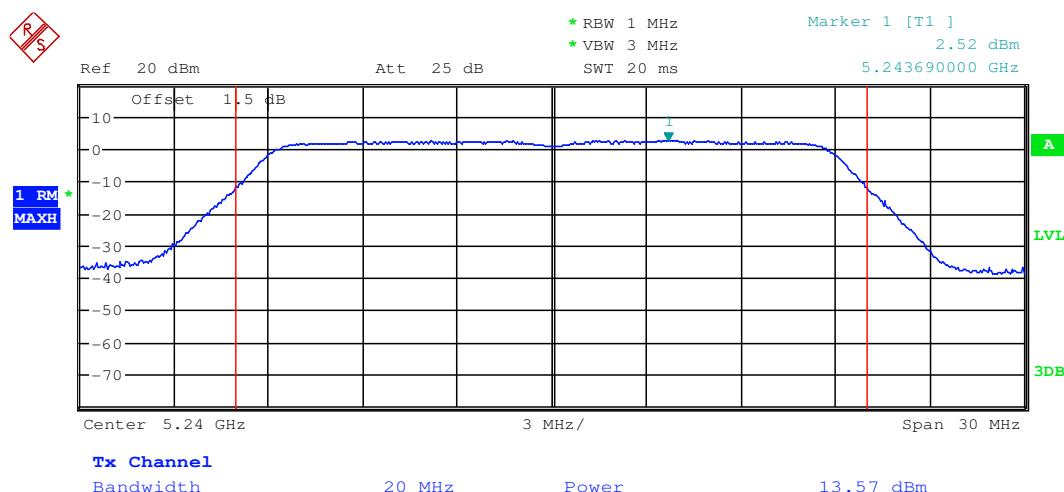


Report No.: SZEM160200065905
Page: 33 of 306

Test mode:	802.11 n20	Frequency(MHz):	5200
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5240
------------	------------	-----------------	------

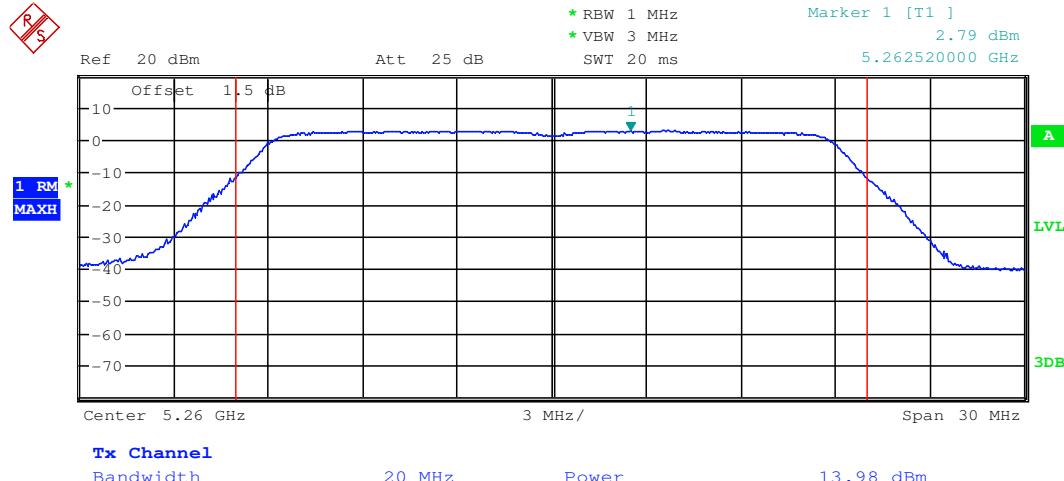


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

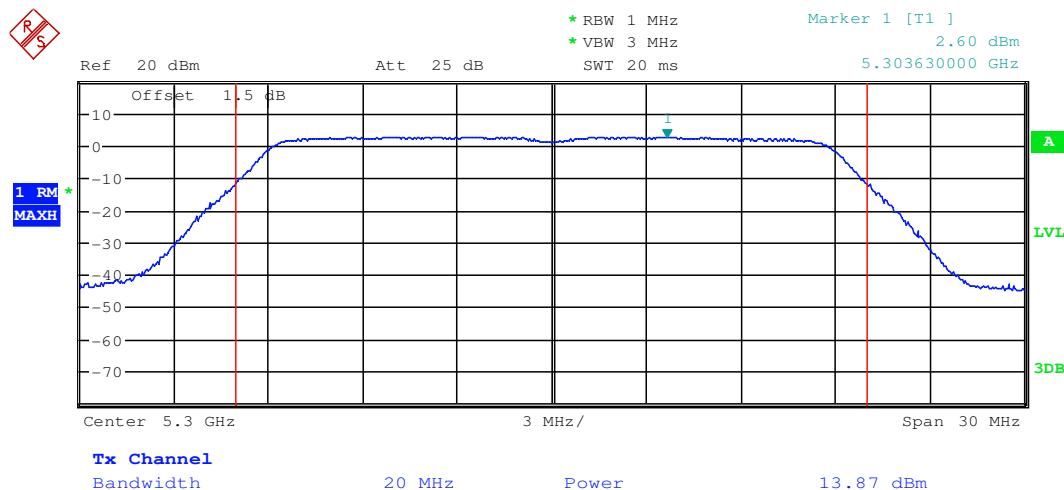


Report No.: SZEM160200065905
Page: 34 of 306

Test mode:	802.11 n20	Frequency(MHz):	5260
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5300
------------	------------	-----------------	------



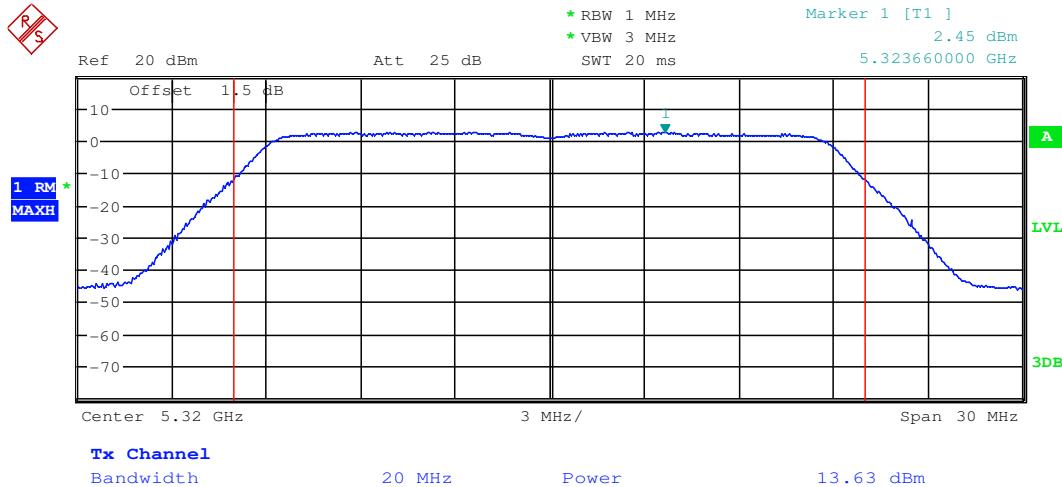
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

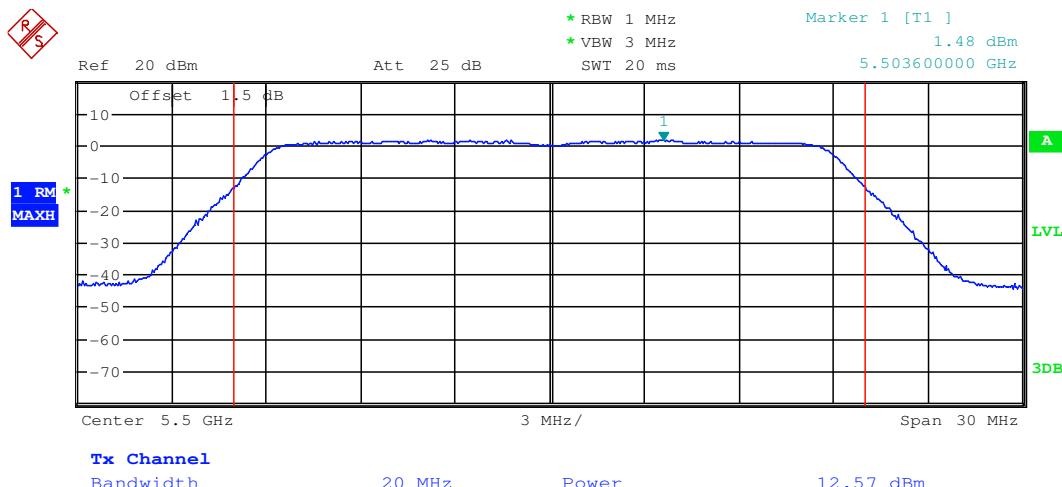


Report No.: SZEM160200065905
 Page: 35 of 306

Test mode:	802.11 n20	Frequency(MHz):	5320
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5500
------------	------------	-----------------	------

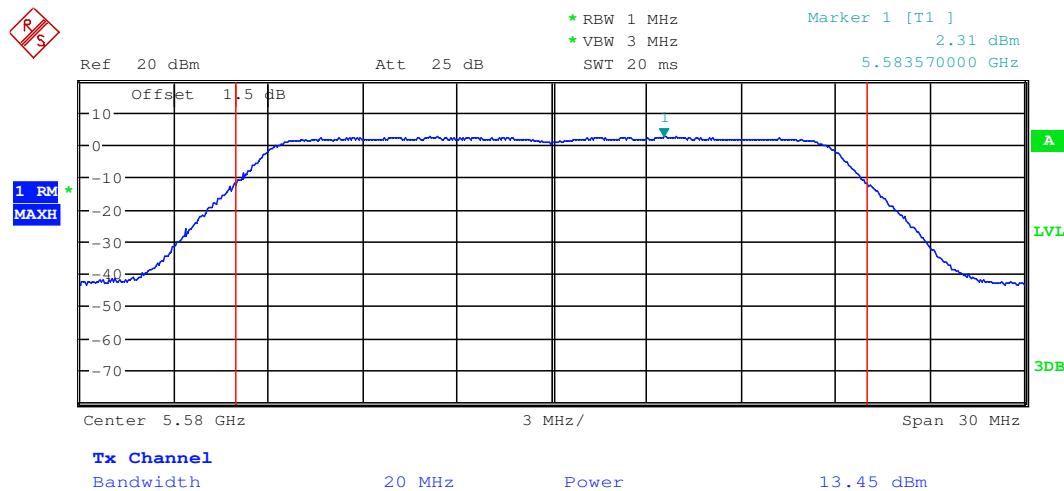


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

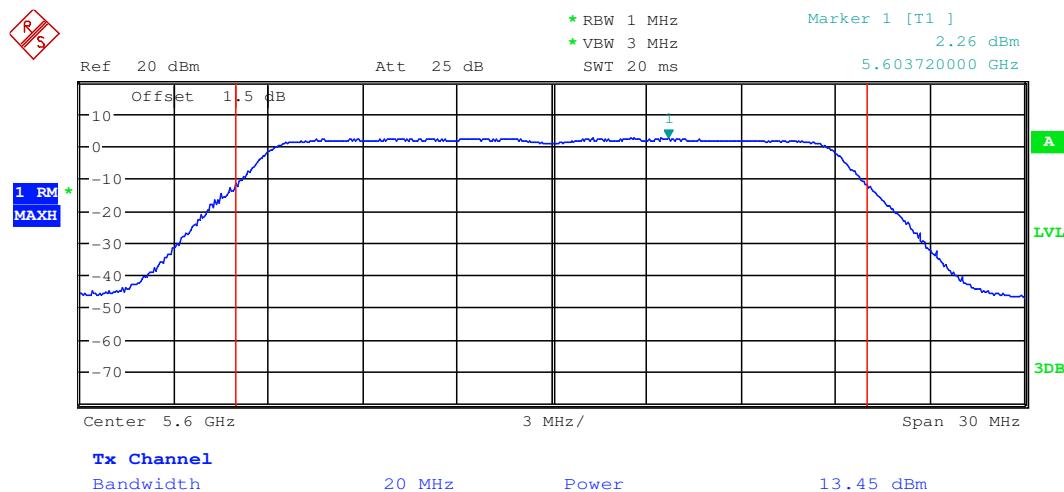


Report No.: SZEM160200065905
Page: 36 of 306

Test mode:	802.11 n20	Frequency(MHz):	5580
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5600
------------	------------	-----------------	------

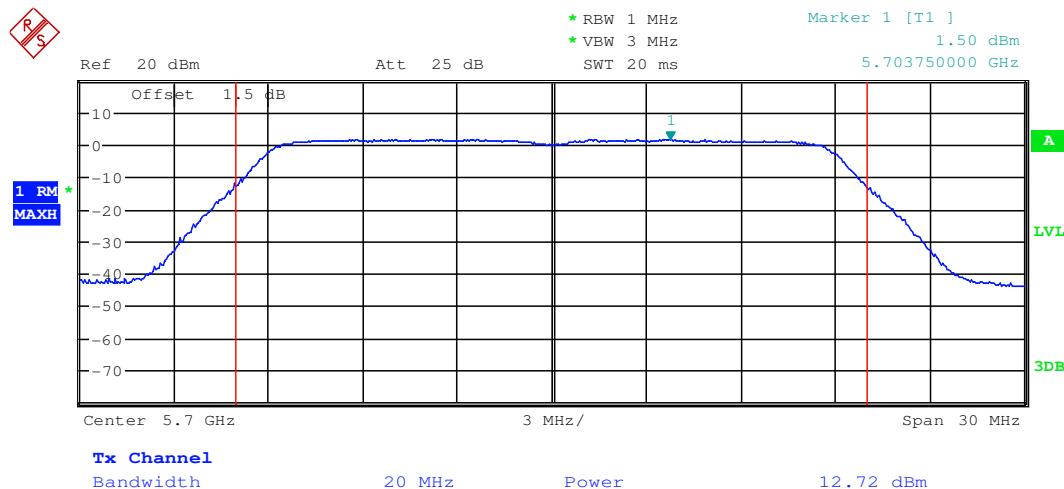


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

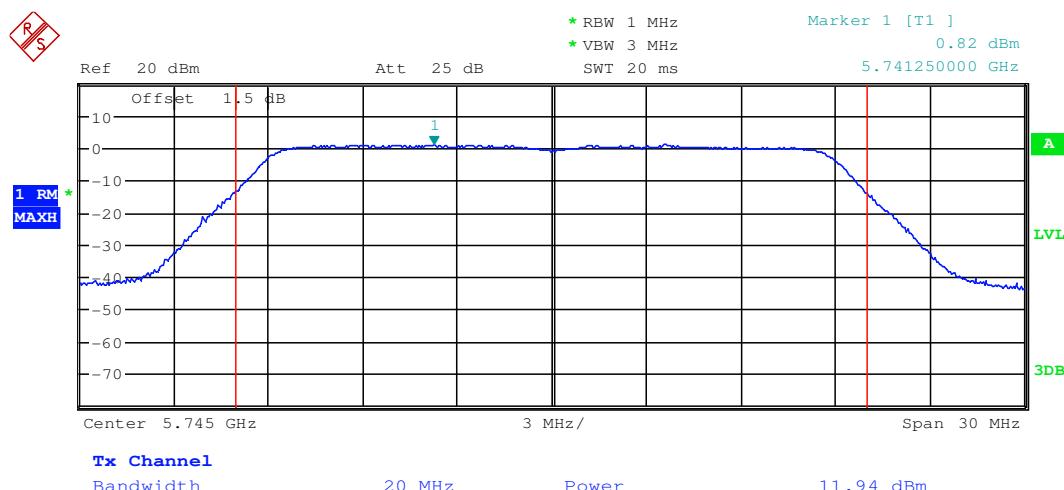


Report No.: SZEM160200065905
Page: 37 of 306

Test mode:	802.11 n20	Frequency(MHz):	5700
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5745
------------	------------	-----------------	------

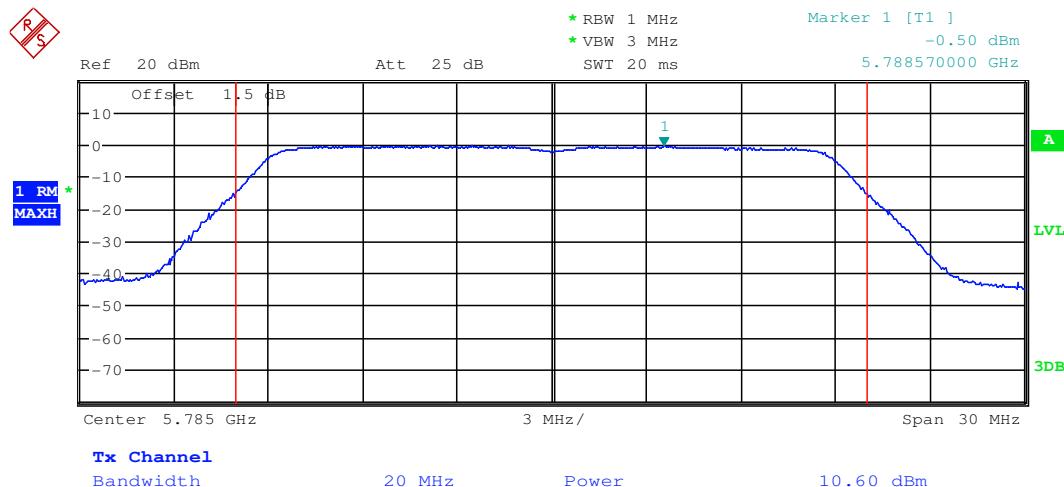


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

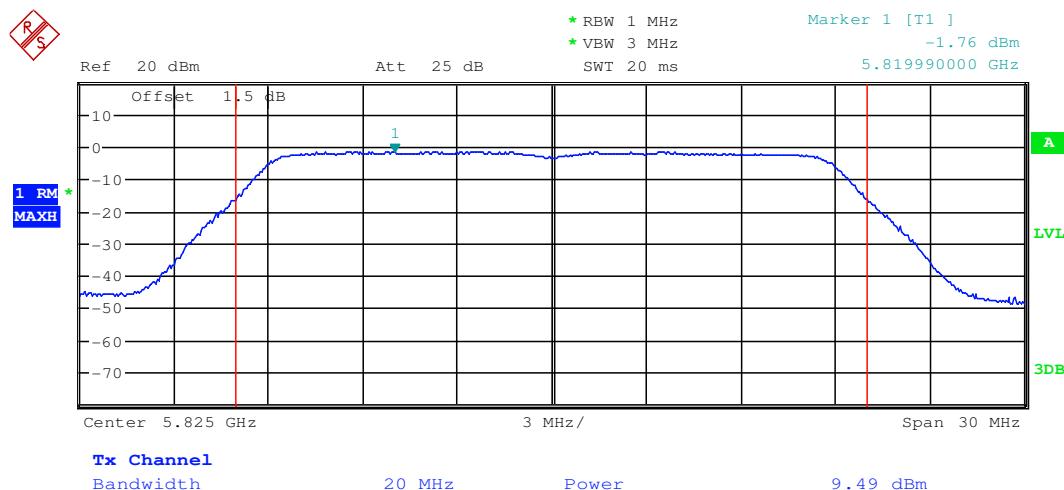


Report No.: SZEM160200065905
Page: 38 of 306

Test mode:	802.11 n20	Frequency(MHz):	5785
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5825
------------	------------	-----------------	------

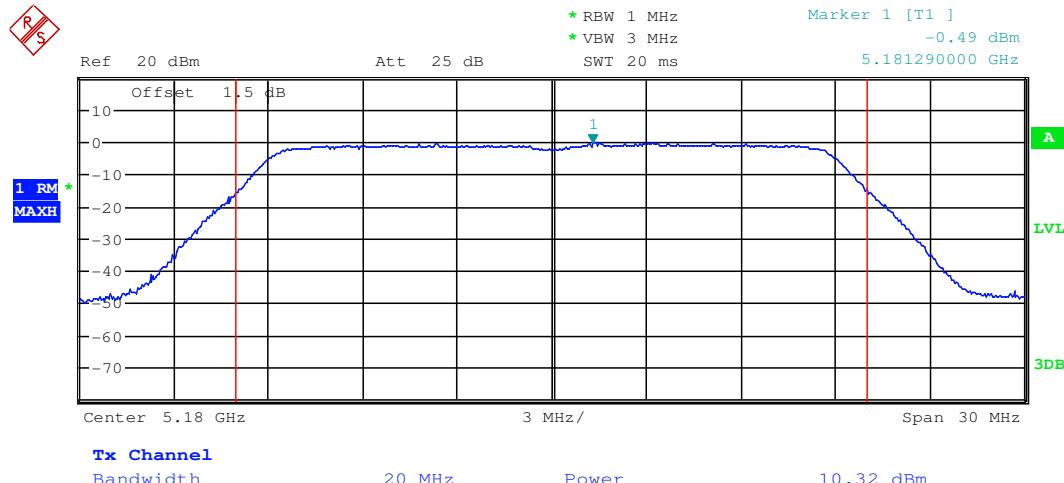


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

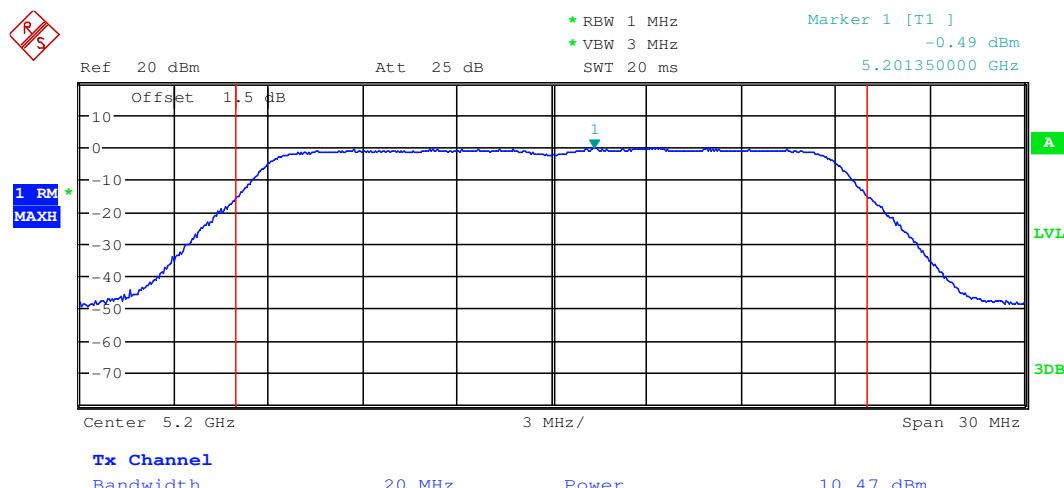


Report No.: SZEM160200065905
Page: 39 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5180
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5200
------------	-------------	-----------------	------

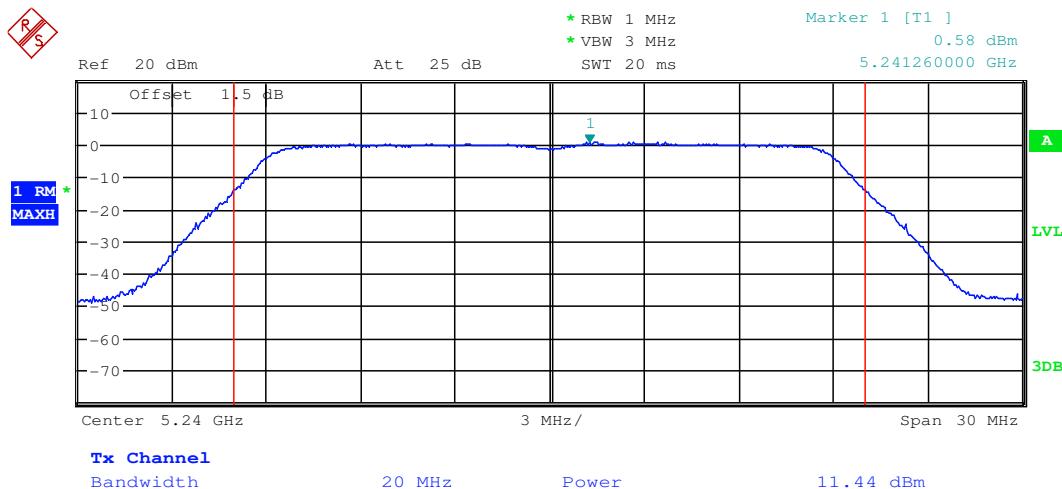


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

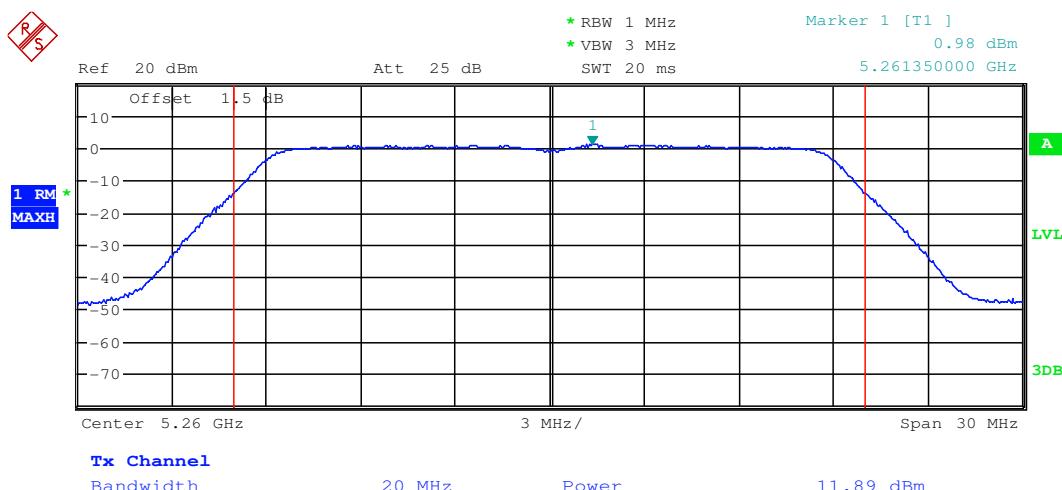


Report No.: SZEM160200065905
Page: 40 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5240
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5260
------------	-------------	-----------------	------

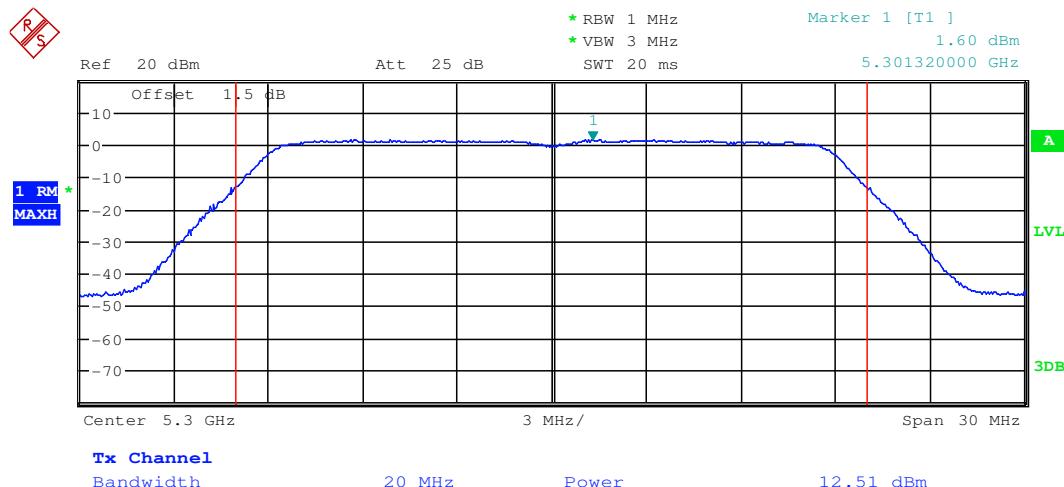


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

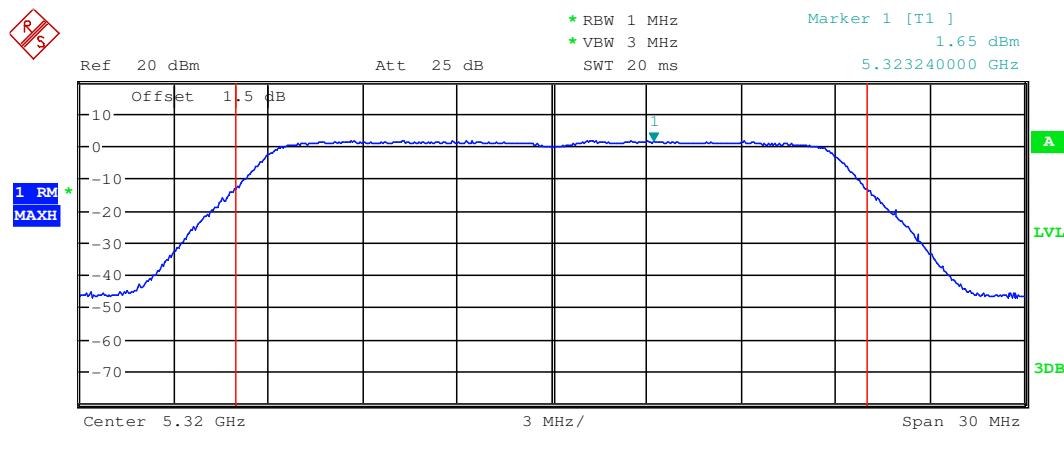


Report No.: SZEM160200065905
Page: 41 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5300
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5320
------------	-------------	-----------------	------

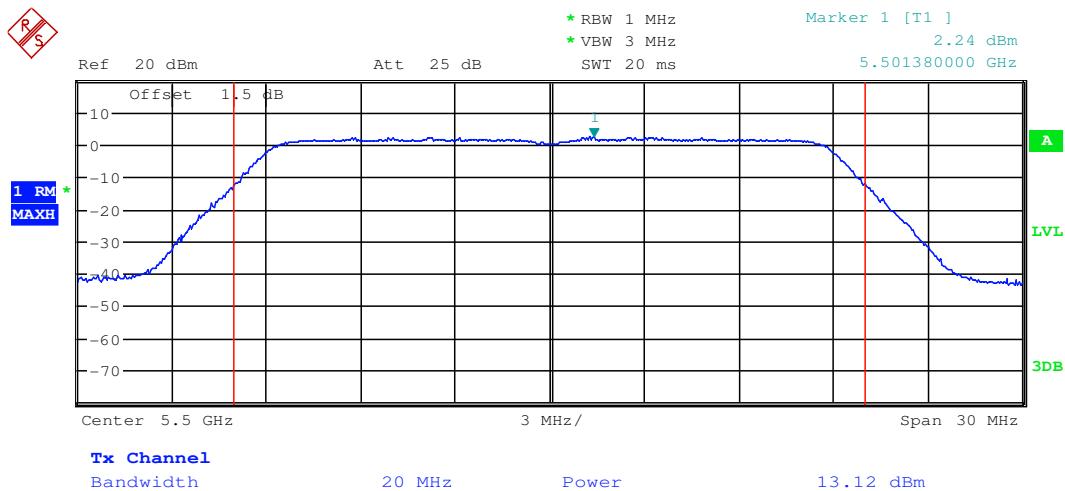


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

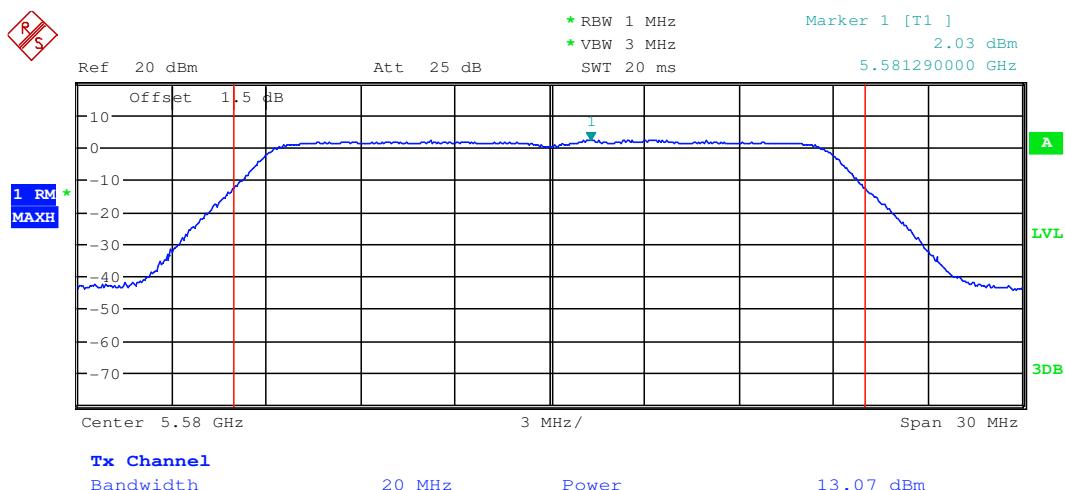


Report No.: SZEM160200065905
Page: 42 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5500
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5580
------------	-------------	-----------------	------

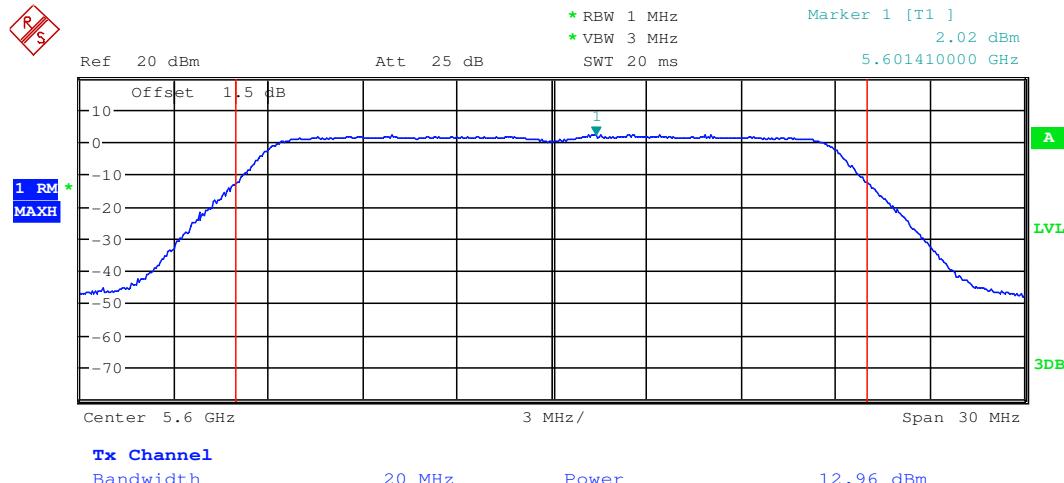


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

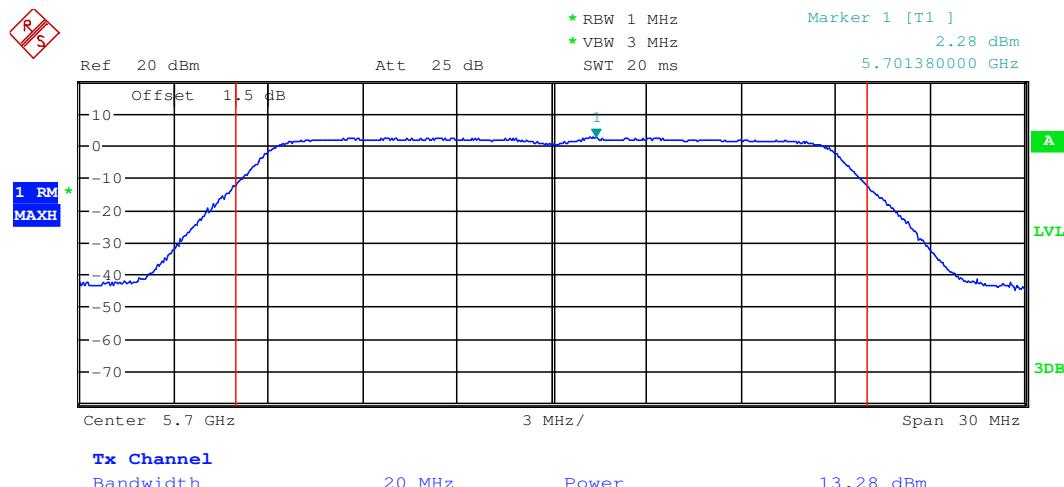


Report No.: SZEM160200065905
 Page: 43 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5600
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5700
------------	-------------	-----------------	------

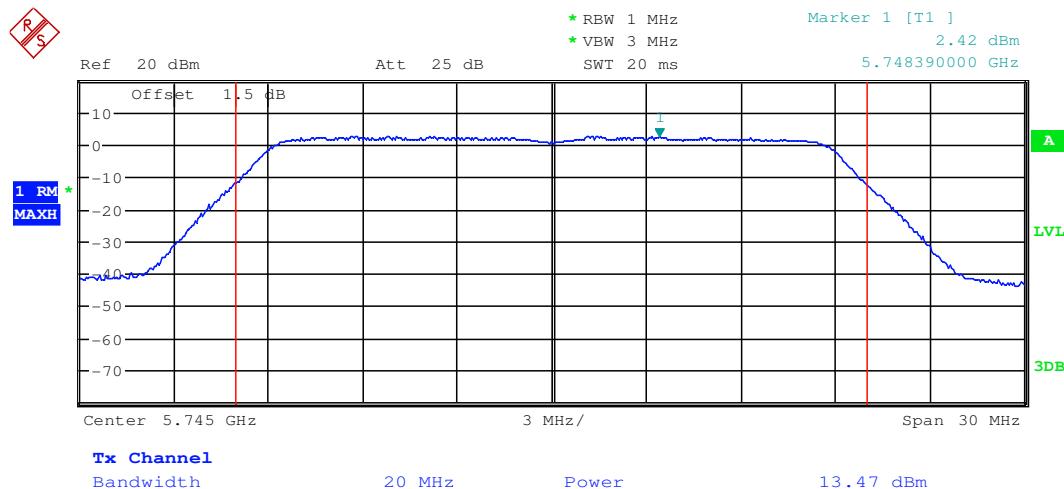


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

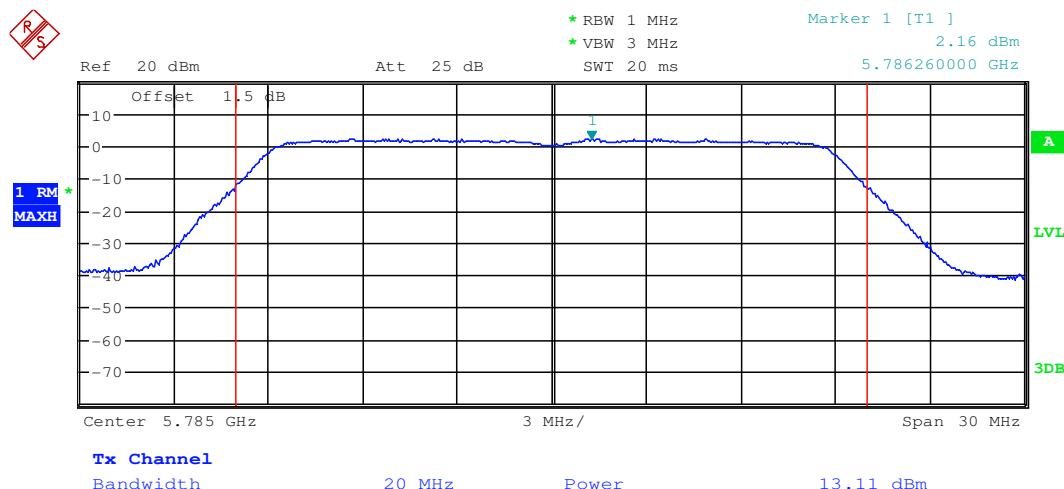


Report No.: SZEM160200065905
Page: 44 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5745
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5785
------------	-------------	-----------------	------



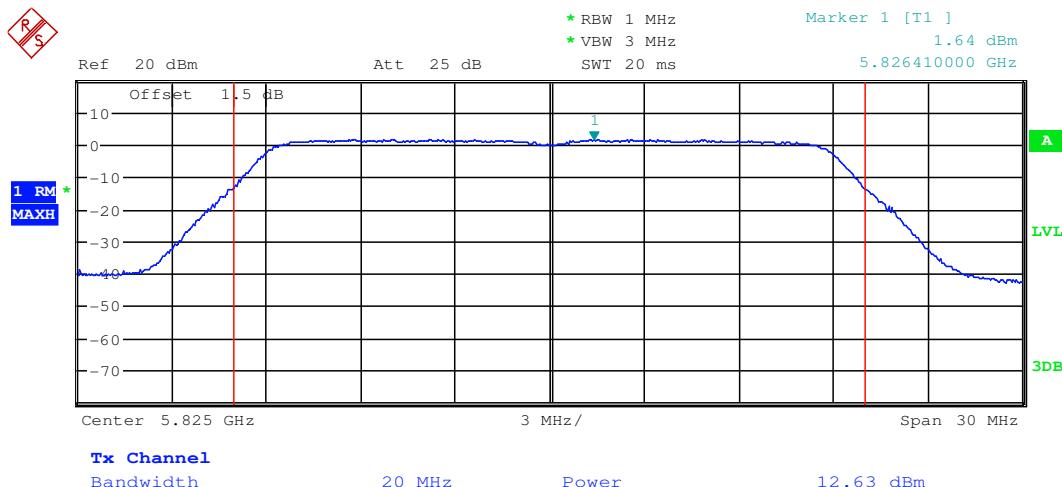
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

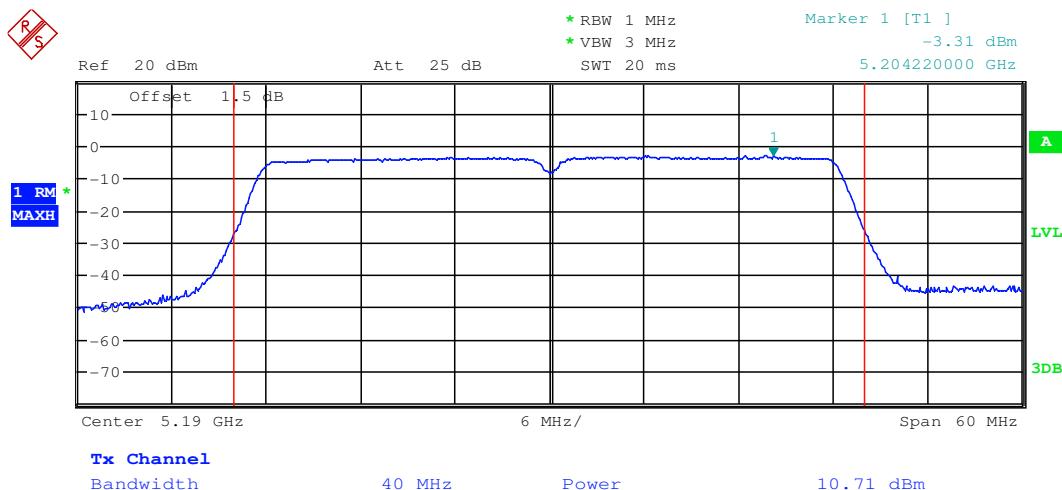


Report No.: SZEM160200065905
Page: 45 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5825
------------	-------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5190
------------	------------	-----------------	------

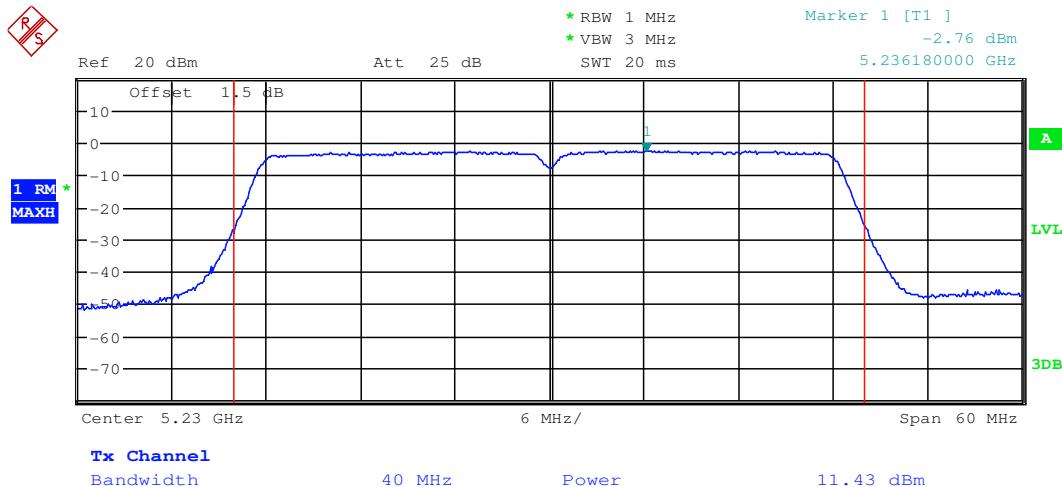


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

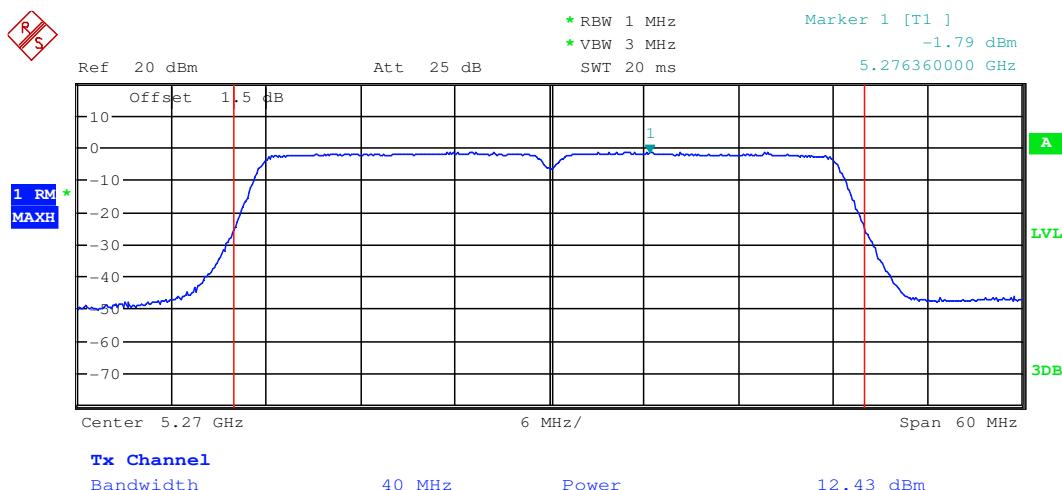


Report No.: SZEM160200065905
 Page: 46 of 306

Test mode:	802.11 n40	Frequency(MHz):	5230
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5270
------------	------------	-----------------	------

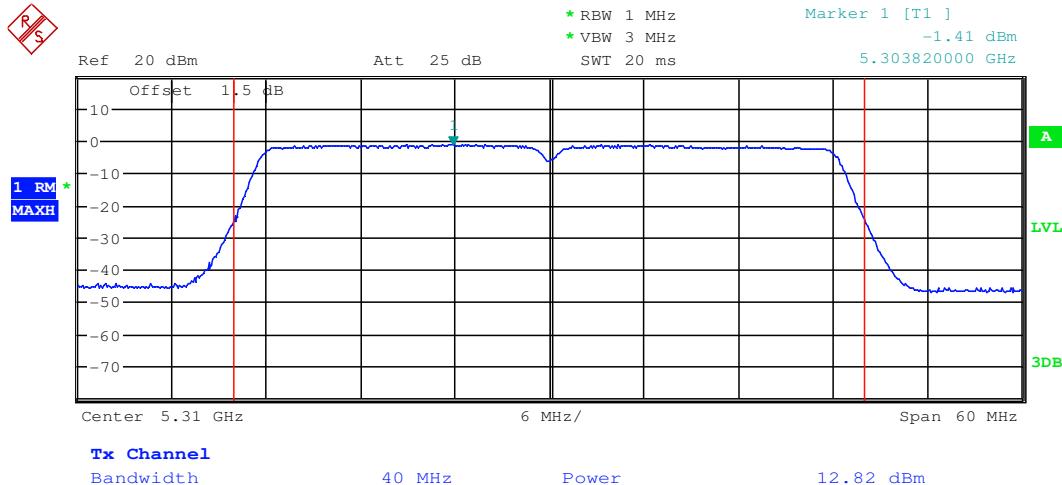


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

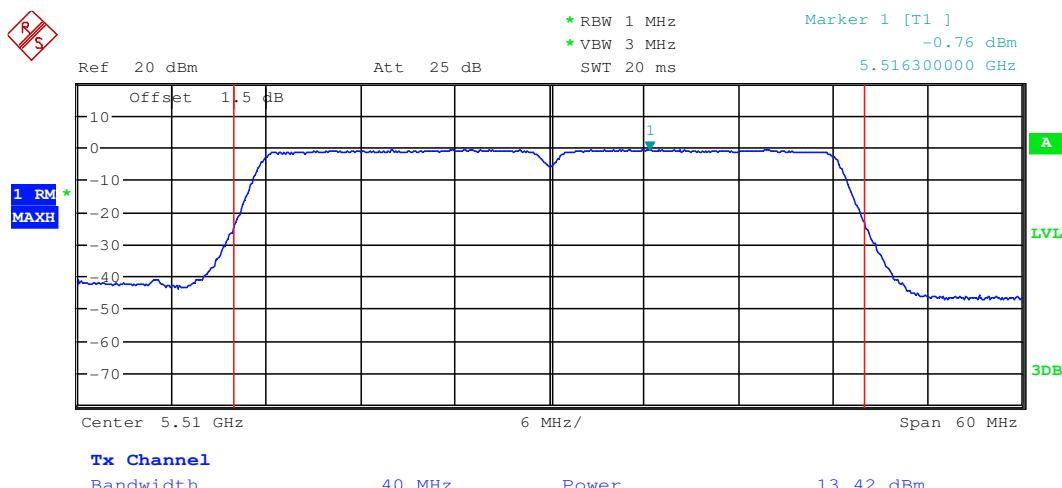


Report No.: SZEM160200065905
 Page: 47 of 306

Test mode:	802.11 n40	Frequency(MHz):	5310
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5510
------------	------------	-----------------	------

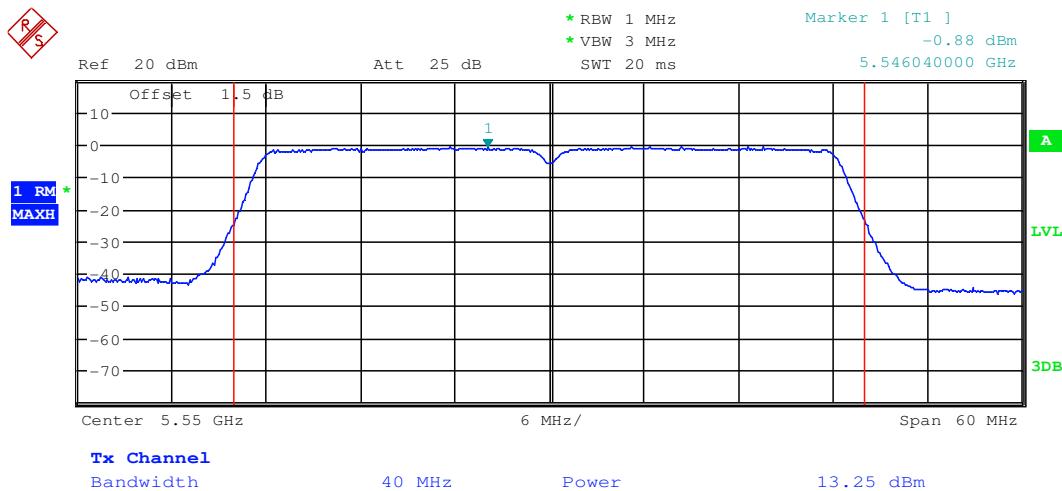


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

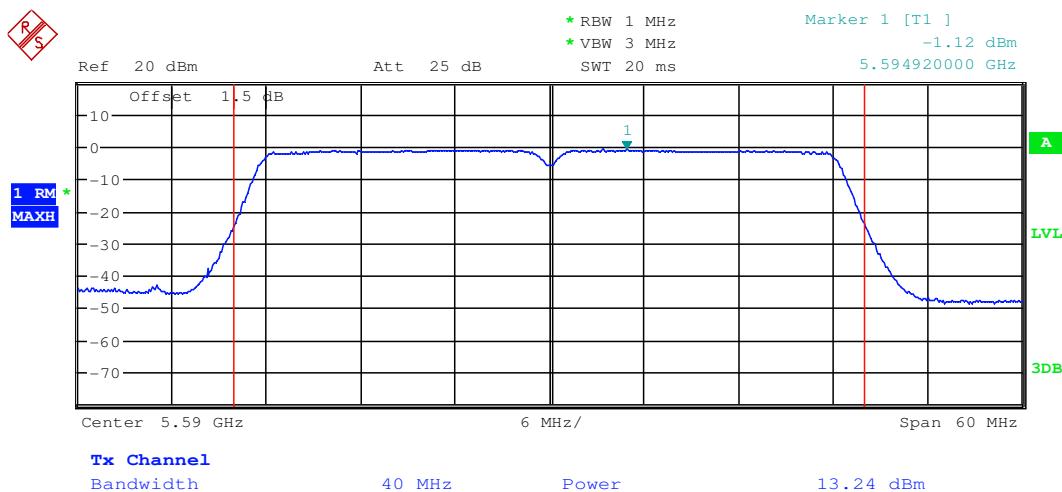


Report No.: SZEM160200065905
Page: 48 of 306

Test mode:	802.11 n40	Frequency(MHz):	5550
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5590
------------	------------	-----------------	------

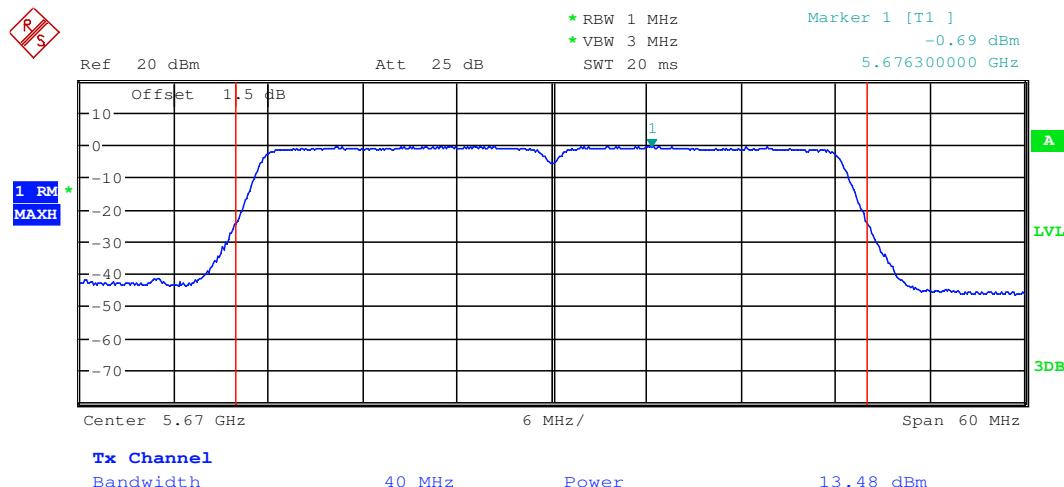


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

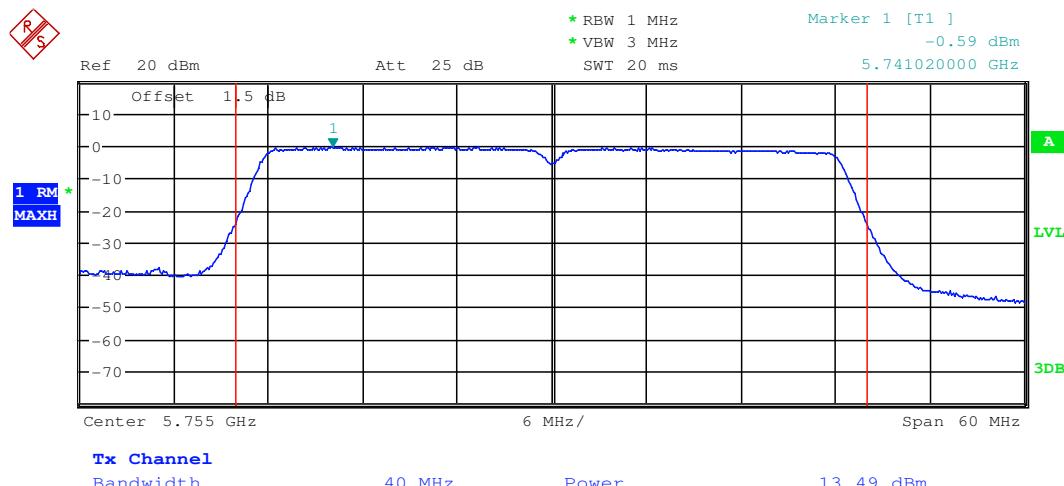


Report No.: SZEM160200065905
Page: 49 of 306

Test mode:	802.11 n40	Frequency(MHz):	5670
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5755
------------	------------	-----------------	------

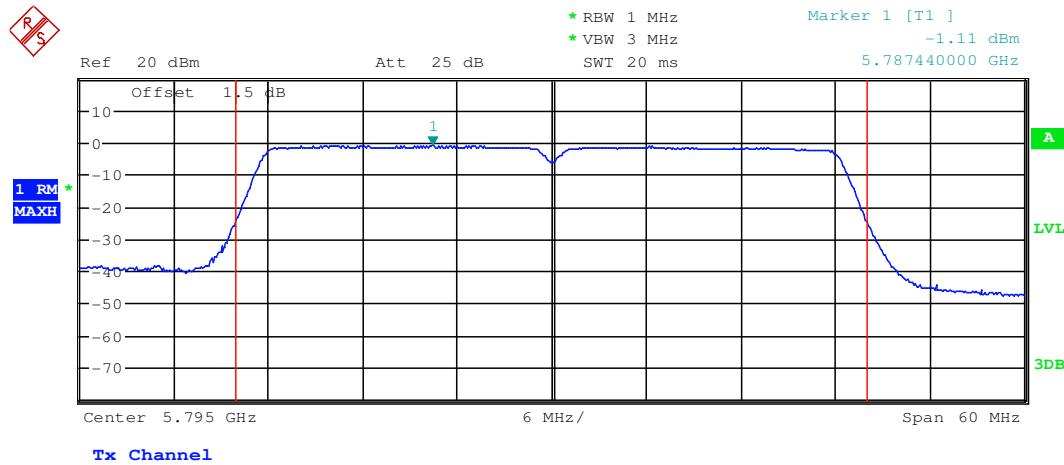


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

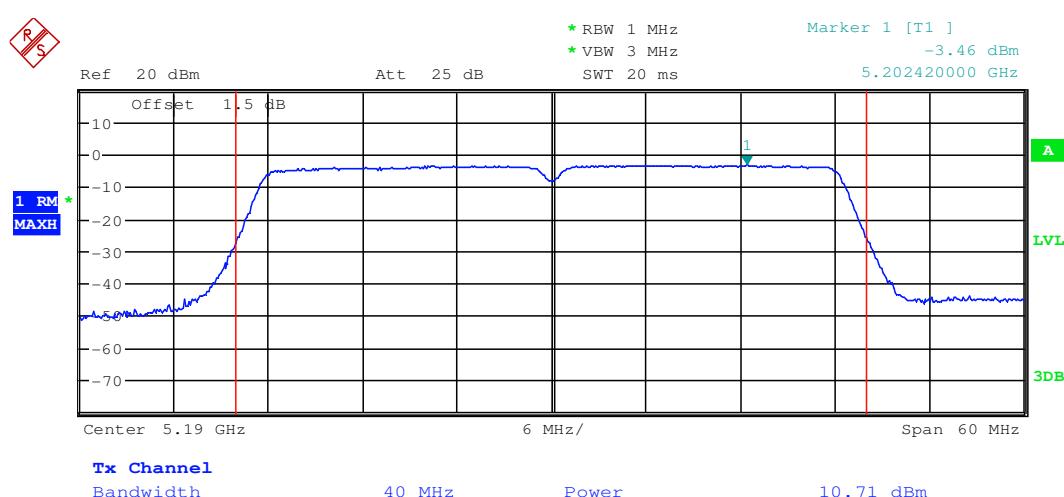


Report No.: SZEM160200065905
Page: 50 of 306

Test mode:	802.11 n40	Frequency(MHz):	5795
------------	------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5190
------------	-------------	-----------------	------

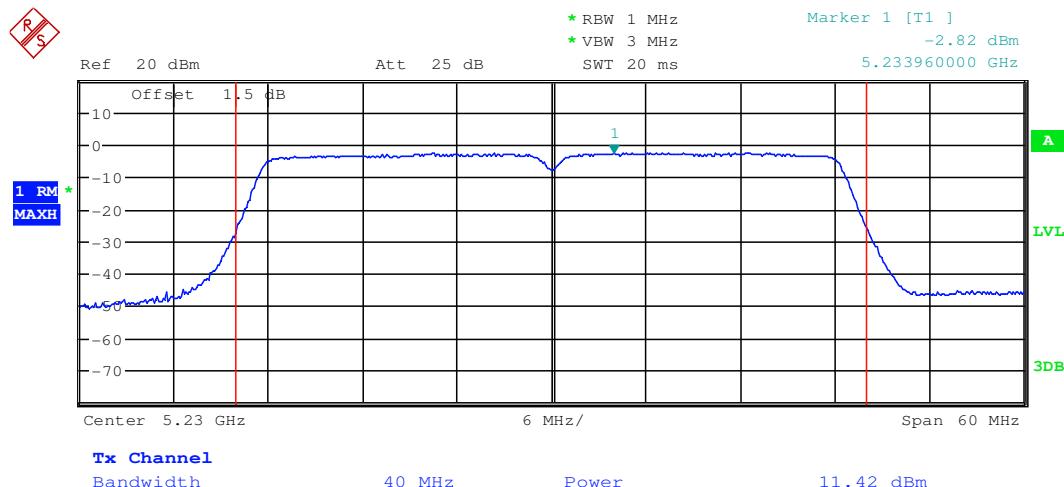


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

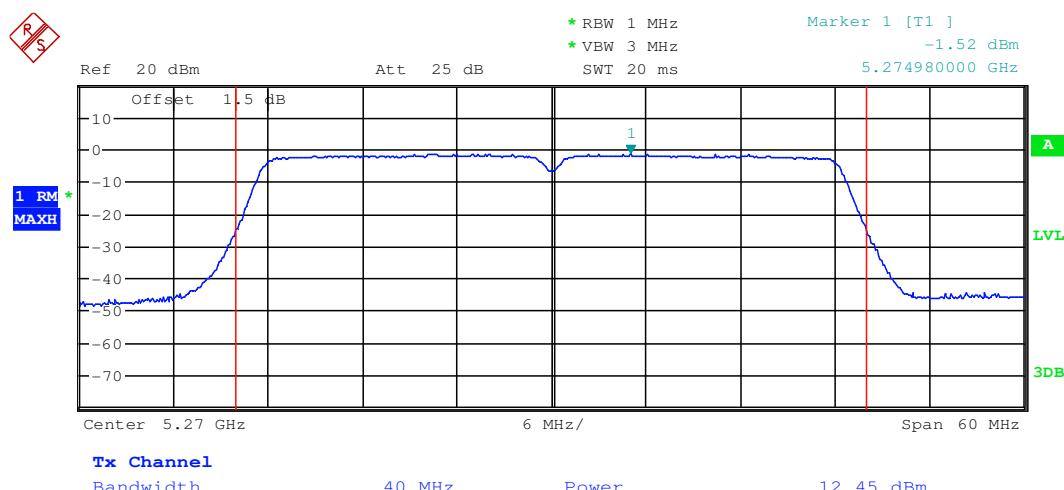


Report No.: SZEM160200065905
Page: 51 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5230
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5270
------------	-------------	-----------------	------

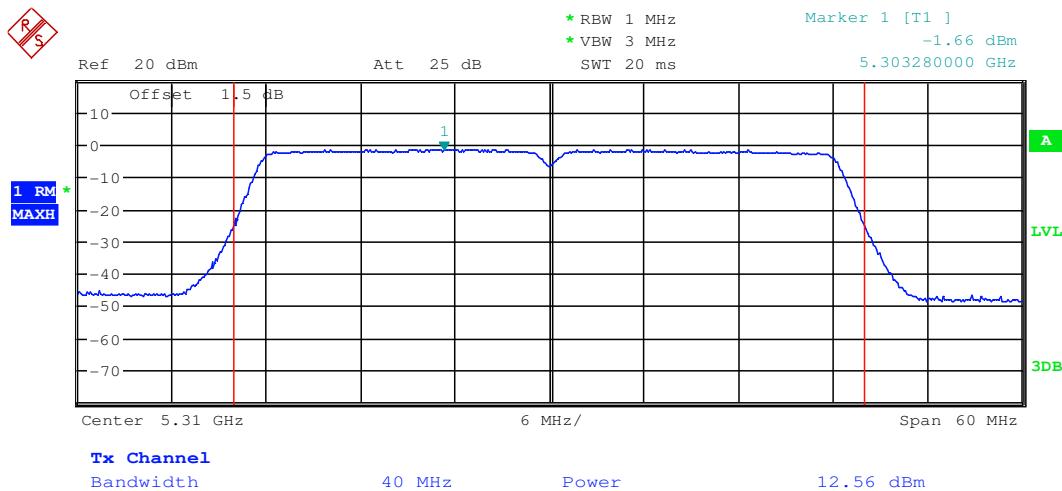


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

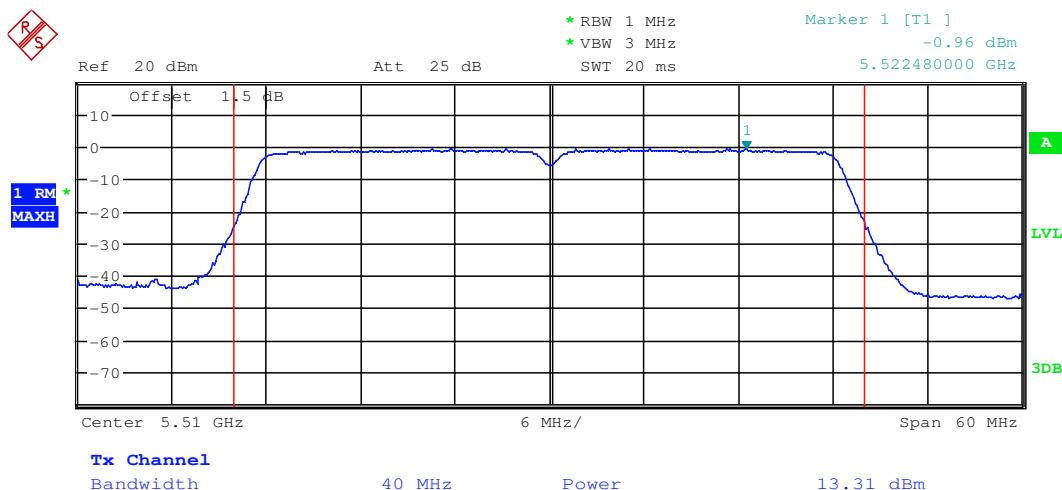


Report No.: SZEM160200065905
Page: 52 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5310
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5510
------------	-------------	-----------------	------

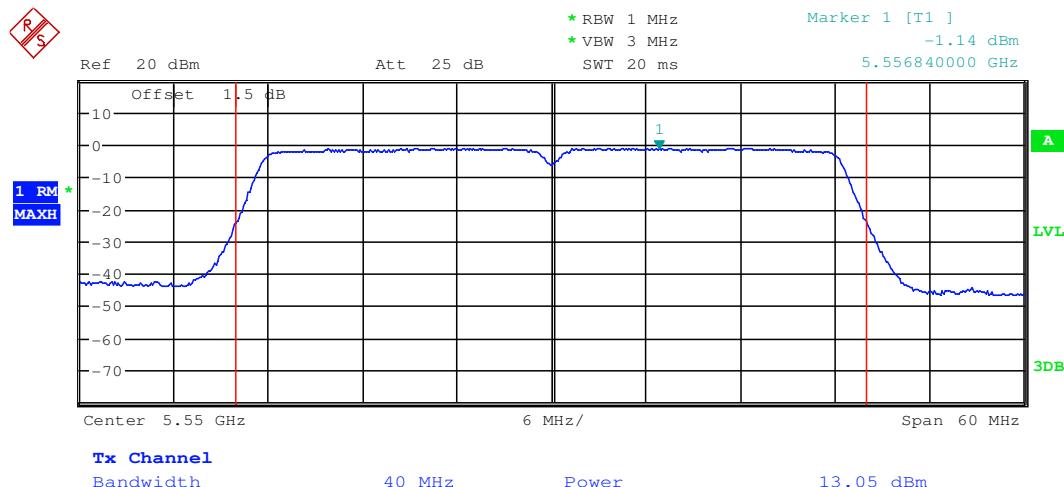


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

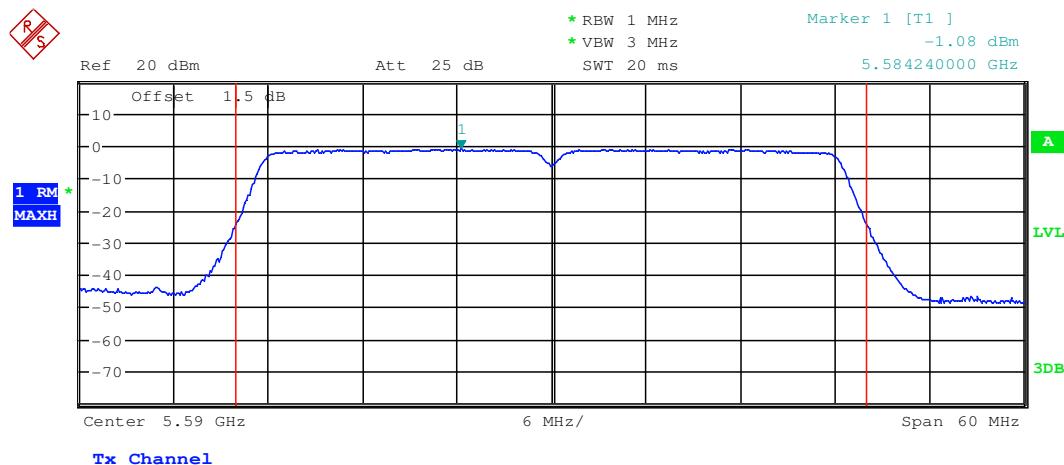


Report No.: SZEM160200065905
Page: 53 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5550
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5590
------------	-------------	-----------------	------

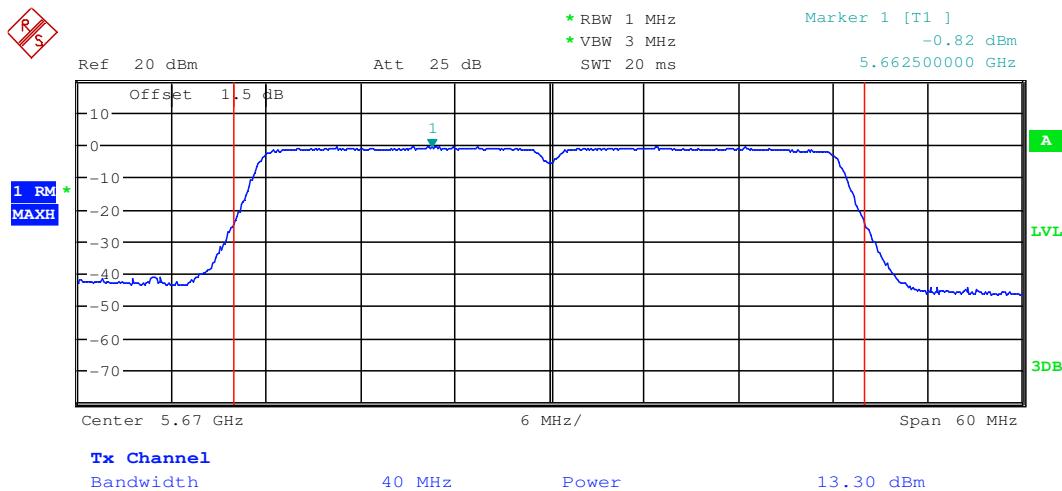


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

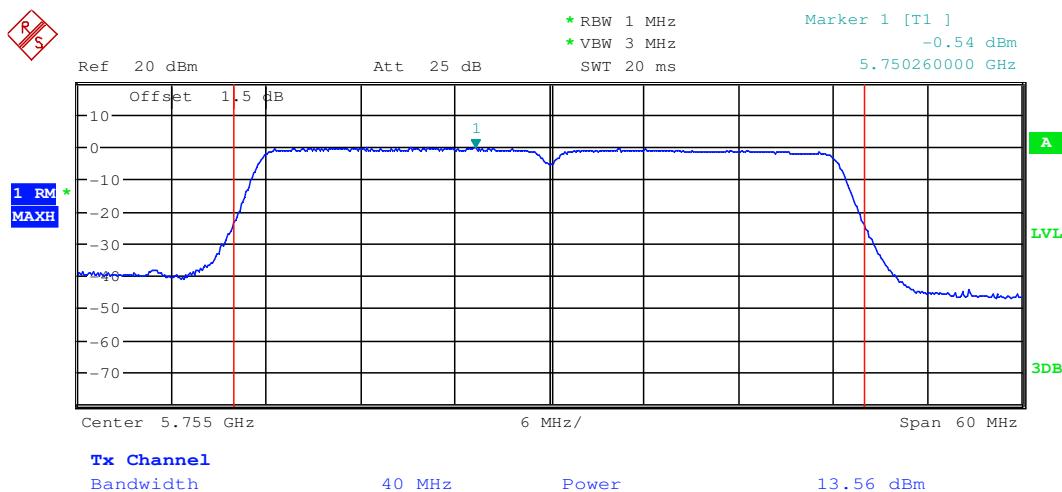


Report No.: SZEM160200065905
Page: 54 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5670
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5755
------------	-------------	-----------------	------

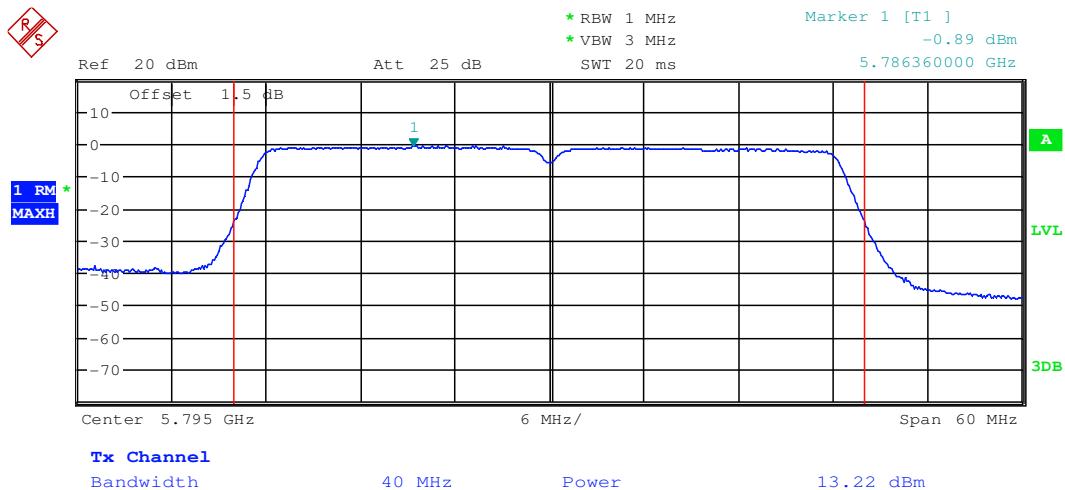


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

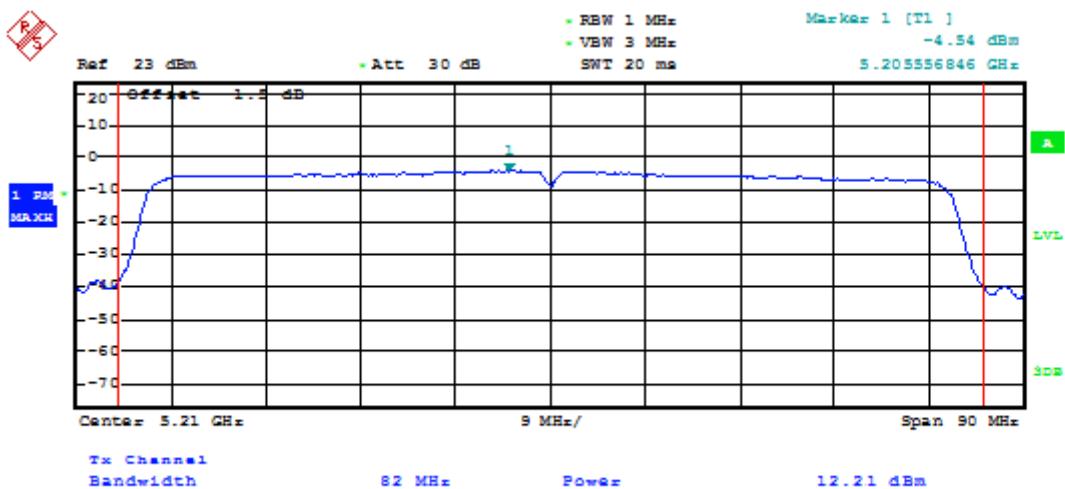


Report No.: SZEM160200065905
Page: 55 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5795
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5210
------------	-------------	-----------------	------

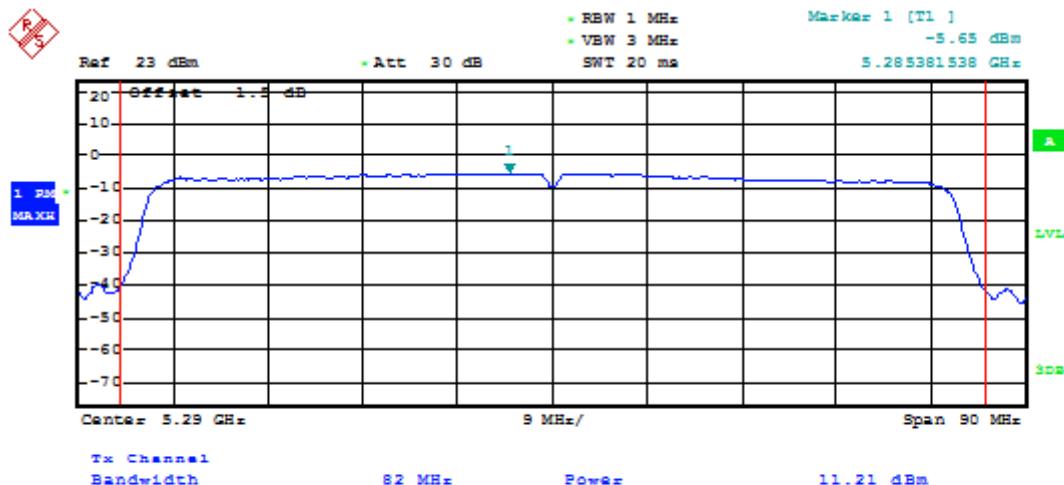


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

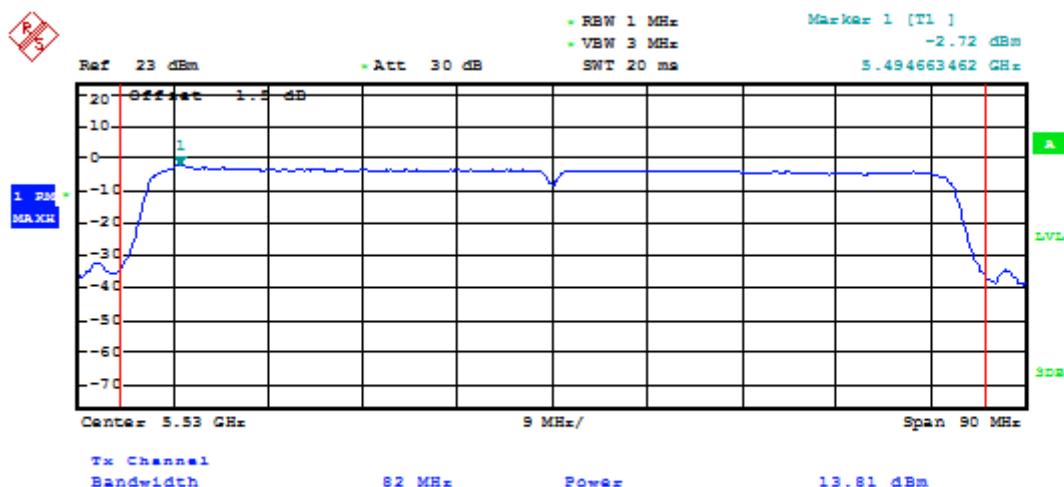


Report No.: SZEM160200065905
Page: 56 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5290
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5530
------------	-------------	-----------------	------

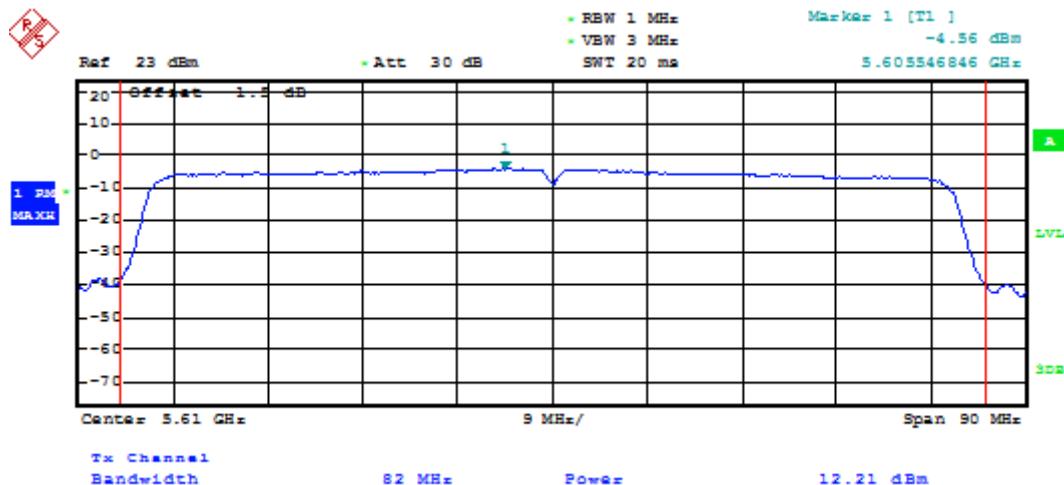


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

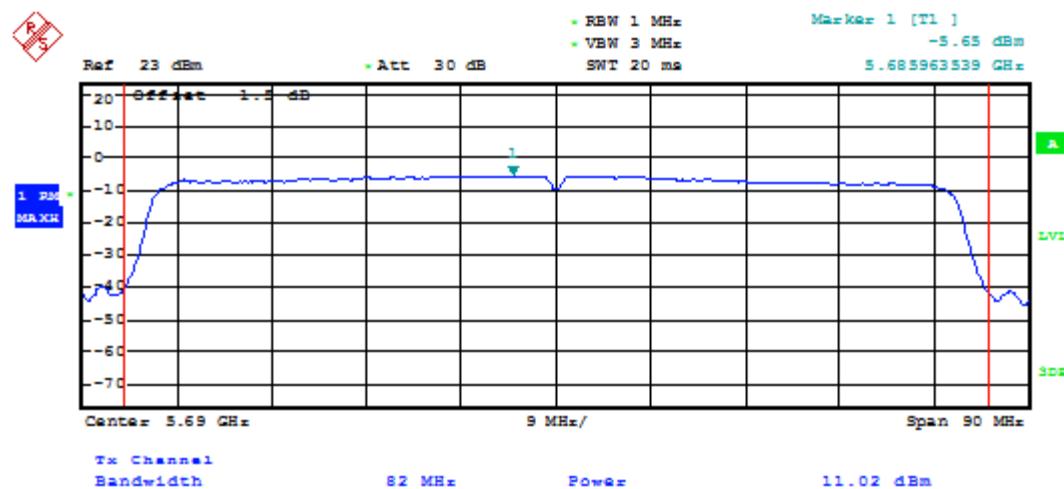


Report No.: SZEM160200065905
Page: 57 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5610
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5690
------------	-------------	-----------------	------

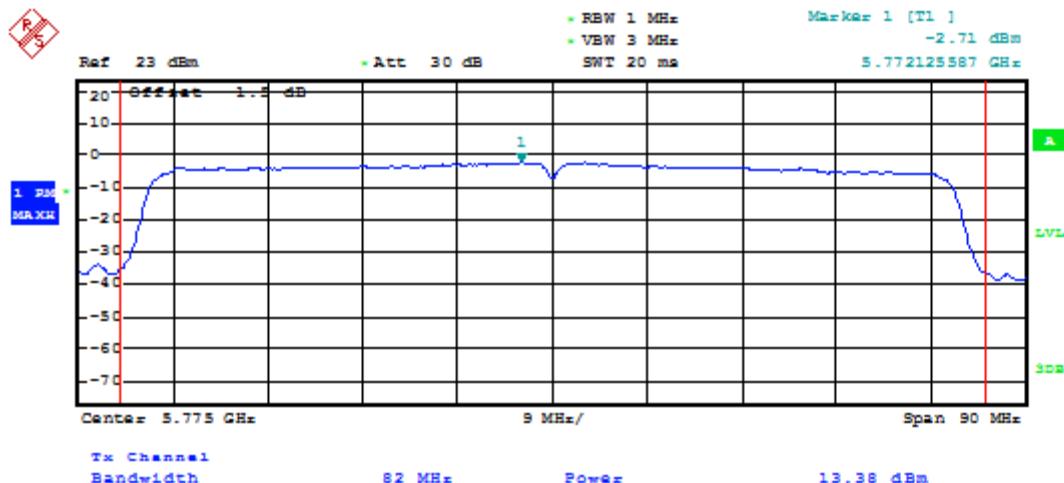


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 58 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5775
------------	-------------	-----------------	------



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

6.4 Equivalent Isotropic Radiated Power (e.i.r.p.)

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
	<p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>	
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, 6Mbps of rate is the worst case of 802.11a; 6.5Mbps of rate is the worst case of 802.11n(HT20); 6.5Mbps of rate is the worst case of 802.11ac 20; 13.5Mbps of rate is the worst case of 802.11n(HT40); 13.5Mbps of rate is the worst case of 802.11ac 40; 29.2Mbps of rate is the worst case of 802.11ac 80.	
Limit:	Frequency Band	Limit
	5150-5250MHz	4W(36dBm) with 6dBi antenna
	5250-5350MHz	1W(30dBm) with 6dBi antenna
	5470-5725MHz	1W(30dBm) with 6dBi antenna
	5725-5850MHz	4W(36dBm) with 6dBi antenna
	*The limit =the maximum output conducted power limit+ actual antenna gain	
Test Results:	Pass	

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 60 of 306

Measurement Data:

802.11a mode			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Result
5180	11.83	36	Pass
5200	12.61	36	Pass
5240	13.52	36	Pass
5260	13.89	30	Pass
5300	13.71	30	Pass
5320	13.42	30	Pass
5500	12.48	30	Pass
5580	13.28	30	Pass
5600	13.35	30	Pass
5700	12.59	30	Pass
5745	11.80	36	Pass
5785	10.35	36	Pass
5825	9.25	36	Pass

802.11 n20 mode			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Result
5180	11.76	36	Pass
5200	12.65	36	Pass
5240	13.57	36	Pass
5260	13.98	30	Pass
5300	13.87	30	Pass
5320	13.63	30	Pass
5500	12.57	30	Pass
5580	13.45	30	Pass
5600	13.45	30	Pass
5700	12.72	30	Pass
5745	11.94	36	Pass
5785	10.60	36	Pass
5825	9.49	36	Pass

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 61 of 306

802.11ac 20 mode			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Result
5180	10.32	36	Pass
5220	10.47	36	Pass
5240	11.44	36	Pass
5260	11.89	30	Pass
5300	12.51	30	Pass
5320	12.53	30	Pass
5500	13.12	30	Pass
5580	13.07	30	Pass
5600	12.96	30	Pass
5700	13.28	30	Pass
5745	13.47	36	Pass
5785	13.11	36	Pass
5825	12.63	36	Pass

802.11 n40 mode			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Result
5190	10.71	36	Pass
5230	11.43	36	Pass
5270	12.43	30	Pass
5310	12.82	30	Pass
5510	13.42	30	Pass
5550	13.25	30	Pass
5590	13.24	30	Pass
5670	13.48	30	Pass
5755	13.49	36	Pass
5795	13.02	36	Pass

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

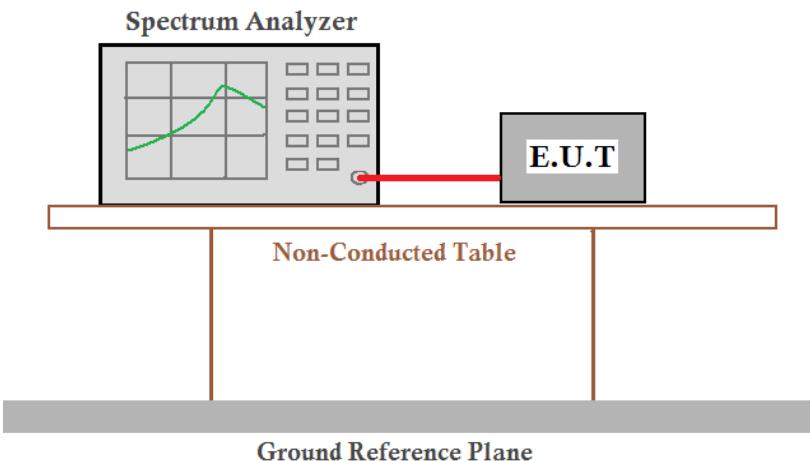


Report No.: SZEM160200065905
 Page: 62 of 306

802.11ac 40 mode			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Result
5190	10.71	36	Pass
5230	11.42	36	Pass
5270	12.45	30	Pass
5310	12.56	30	Pass
5510	13.31	30	Pass
5550	13.05	30	Pass
5590	13.10	30	Pass
5670	13.30	30	Pass
5755	13.56	36	Pass
5795	13.22	36	Pass

802.11ac 80 mode			
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Result
5210	12.21	36	Pass
5290	11.21	30	Pass
5530	13.81	30	Pass
5610	12.21	30	Pass
5690	11.02	30	Pass
5775	13.38	36	Pass

6.5 26dB Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
Test Setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a coaxial cable. The E.U.T is placed on a Non-Conducted Table. The entire setup is positioned above a Ground Reference Plane.</p>
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, 6Mbps of rate is the worst case of 802.11a; 6.5Mbps of rate is the worst case of 802.11n(HT20); 6.5Mbps of rate is the worst case of 802.11ac 20; 13.5Mbps of rate is the worst case of 802.11n(HT40); 13.5Mbps of rate is the worst case of 802.11ac 40; 29.2Mbps of rate is the worst case of 802.11ac 80.
Limit:	No restriction limits
Test Results:	Pass

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 64 of 306

Measurement Data:

802.11a mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	20.962	16.590
5200	21.209	16.590
5240	21.090	16.590
5260	21.105	16.620
5300	20.889	16.590
5320	20.840	16.620
5500	21.145	16.590
5580	21.410	16.590
5600	20.889	16.590
5700	21.017	16.620
5745	21.410	16.590
5785	21.154	16.590
5825	21.410	16.590

802.11 n20 mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	21.474	17.790
5200	21.538	17.790
5240	21.474	17.760
5260	21.465	17.760
5300	21.665	17.790
5320	21.731	17.760
5500	21.465	17.790
5580	21.667	17.790
5600	21.680	17.760
5700	21.465	17.790
5745	21.680	17.790
5785	21.465	17.790
5825	21.480	17.790



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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 65 of 306

802.11ac 20 mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	21.465	17.790
5220	21.410	17.760
5240	21.465	17.790
5260	21.474	17.760
5300	21.731	17.760
5320	21.465	17.760
5500	21.746	17.760
5580	21.529	17.760
5600	21.456	17.760
5700	21.795	17.790
5745	21.731	17.790
5785	21.731	17.790
5825	21.753	17.790

802.11 n40 mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5190	39.359	36.180
5230	39.487	36.240
5270	39.215	36.180
5310	39.359	36.180
5510	39.344	36.240
5550	39.584	36.180
5590	39.584	36.180
5670	39.359	36.180
5755	39.264	36.240
5795	39.359	36.180

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 66 of 306

802.11ac 40 mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5190	39.359	36.180
5230	39.359	36.240
5270	39.359	36.180
5310	39.359	36.180
5510	39.615	36.180
5550	39.215	36.180
5590	39.359	36.180
5670	39.343	36.180
5755	39.359	36.240
5795	39.359	36.240

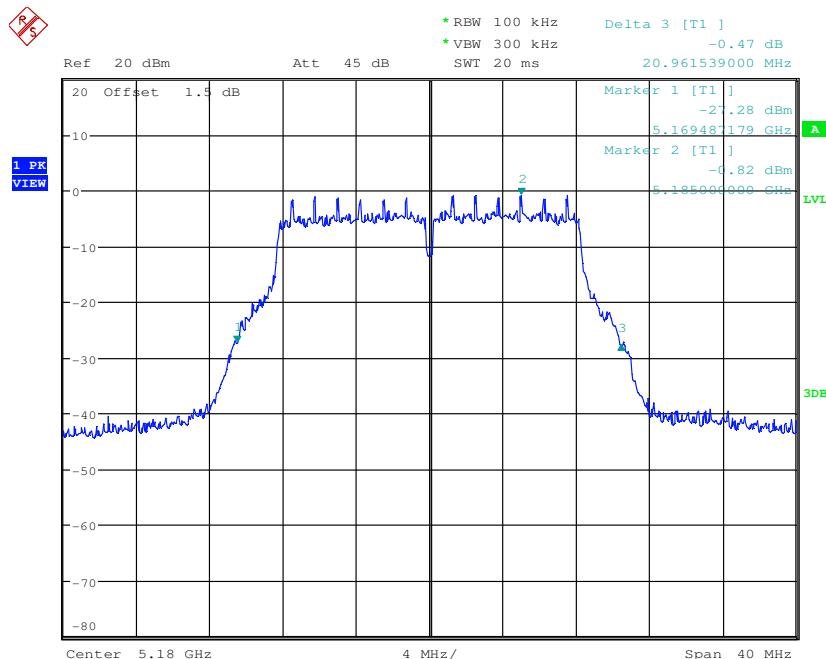
802.11ac 80 mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5210	80.128	76.282
5290	80.513	76.410
5530	80.256	76.154
5610	80.256	76.410
5690	80.256	76.154
5775	80.128	76.282



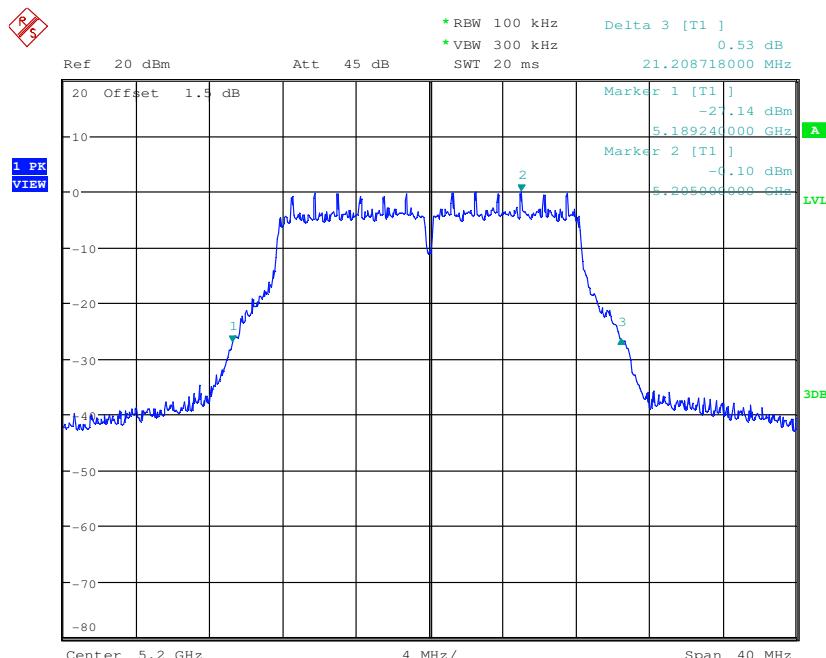
26dB Emission Bandwidth

Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5200
------------	---------	-----------------	------

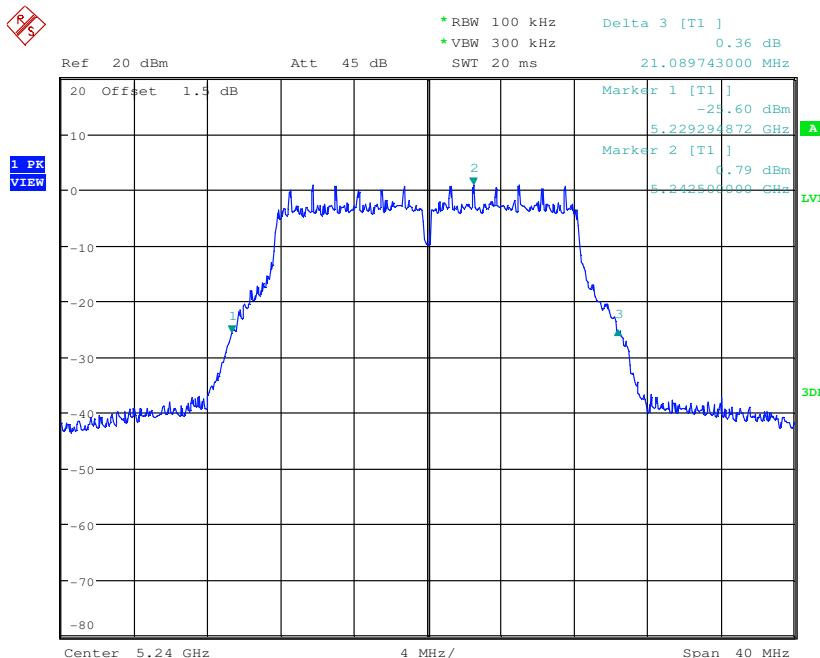


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

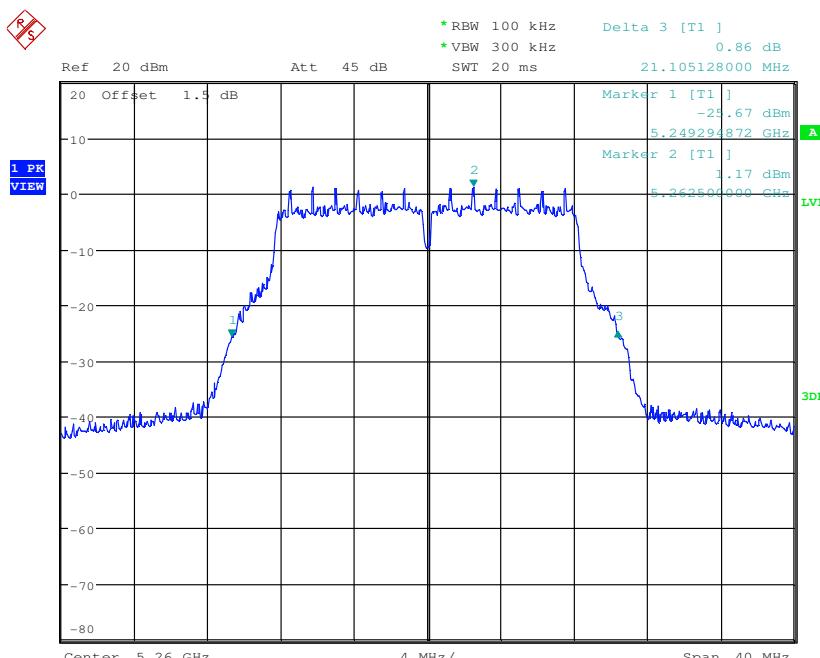


Report No.: SZEM160200065905
Page: 68 of 306

Test mode:	802.11a	Frequency(MHz):	5240
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5260
------------	---------	-----------------	------

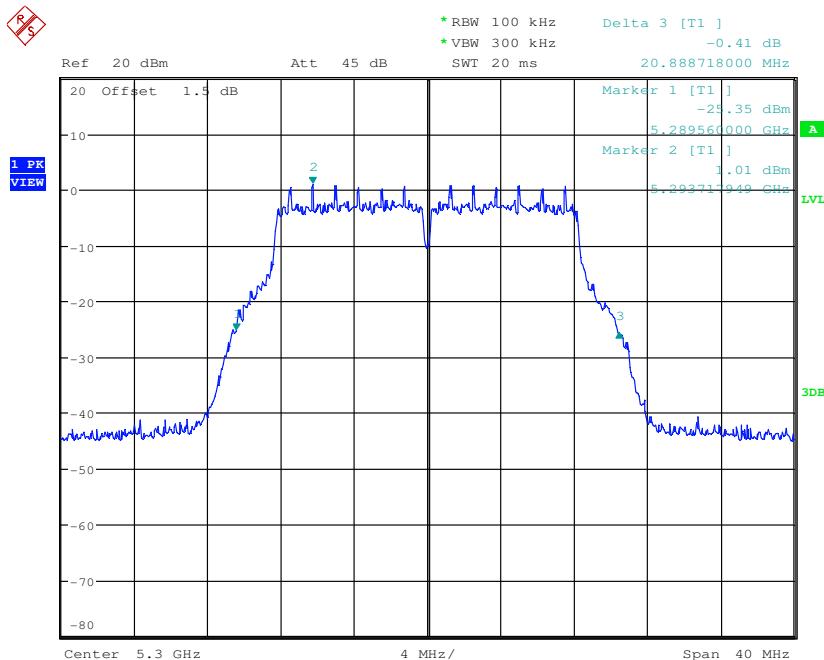


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

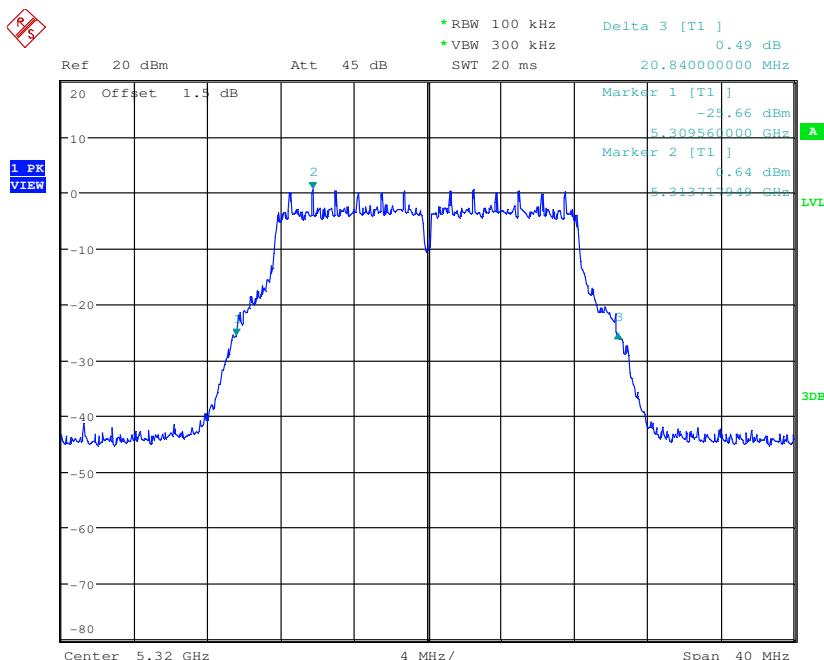


Report No.: SZEM160200065905
Page: 69 of 306

Test mode:	802.11a	Frequency(MHz):	5300
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5320
------------	---------	-----------------	------

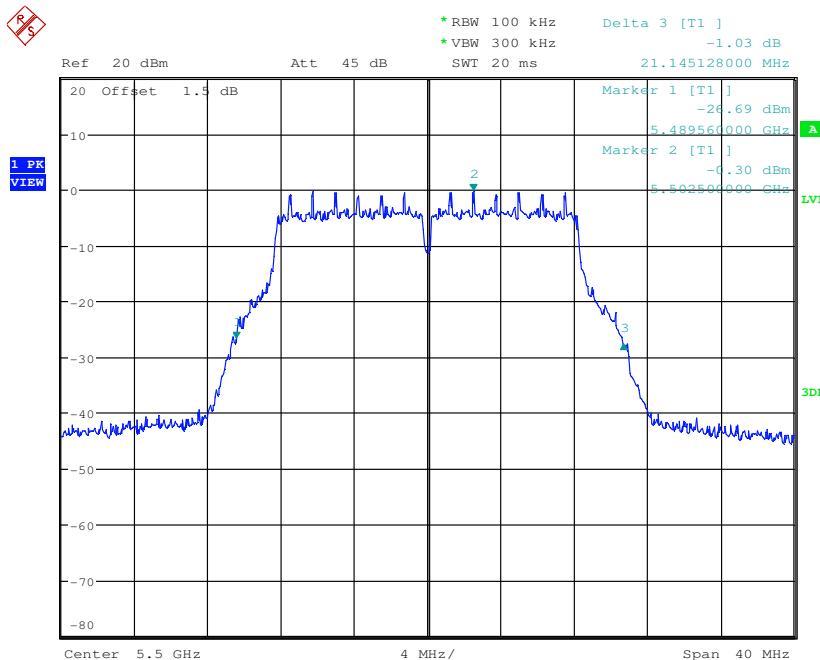


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

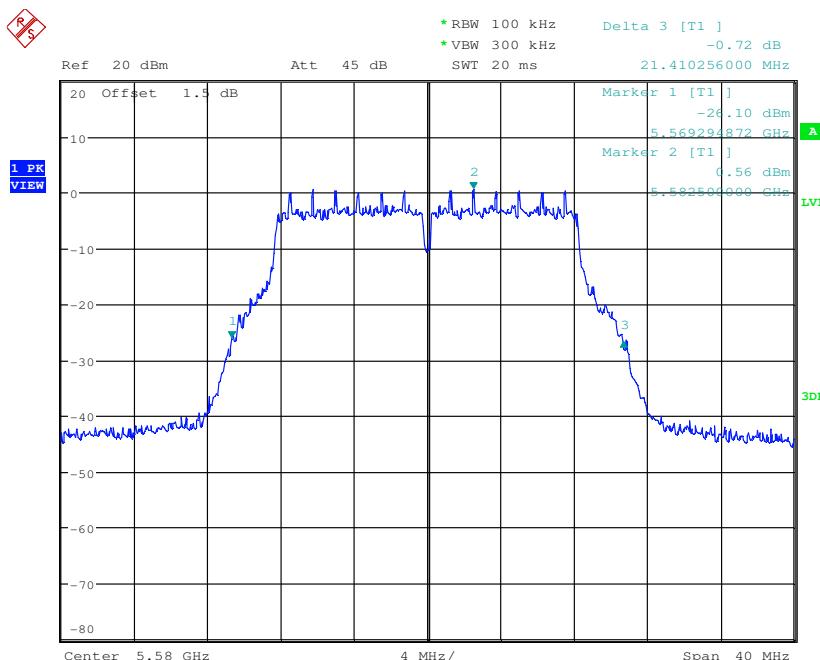


Report No.: SZEM160200065905
Page: 70 of 306

Test mode:	802.11a	Frequency(MHz):	5500
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5580
------------	---------	-----------------	------

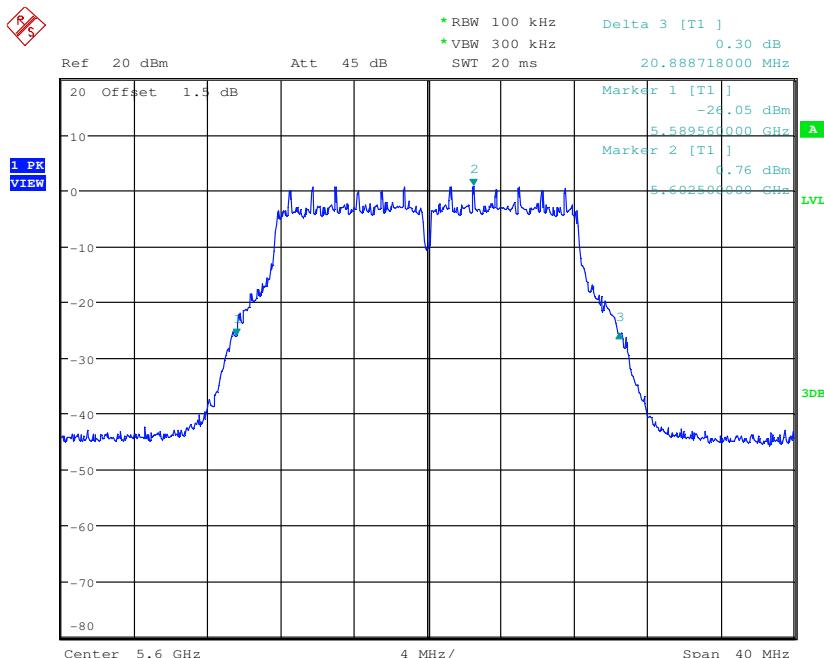


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

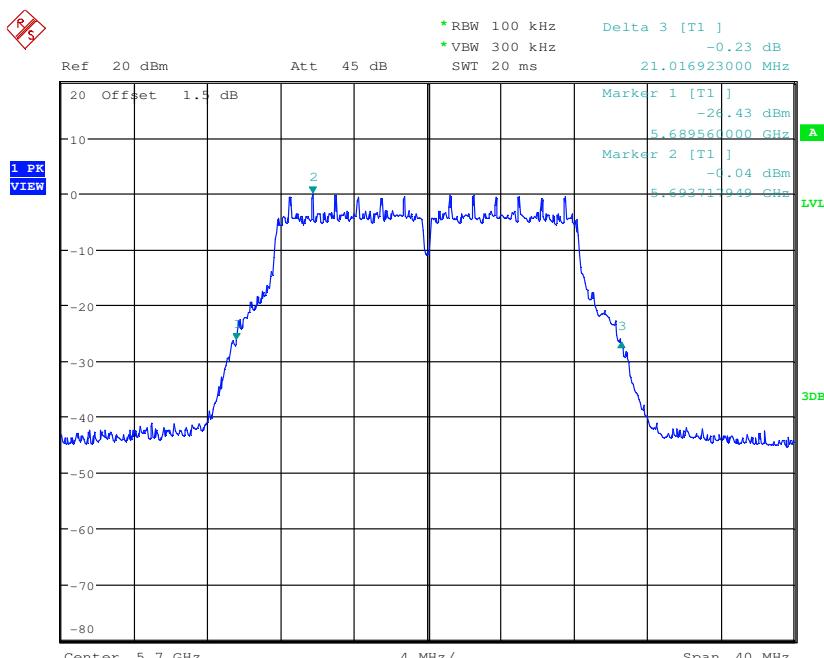


Report No.: SZEM160200065905
Page: 71 of 306

Test mode:	802.11a	Frequency(MHz):	5600
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5700
------------	---------	-----------------	------

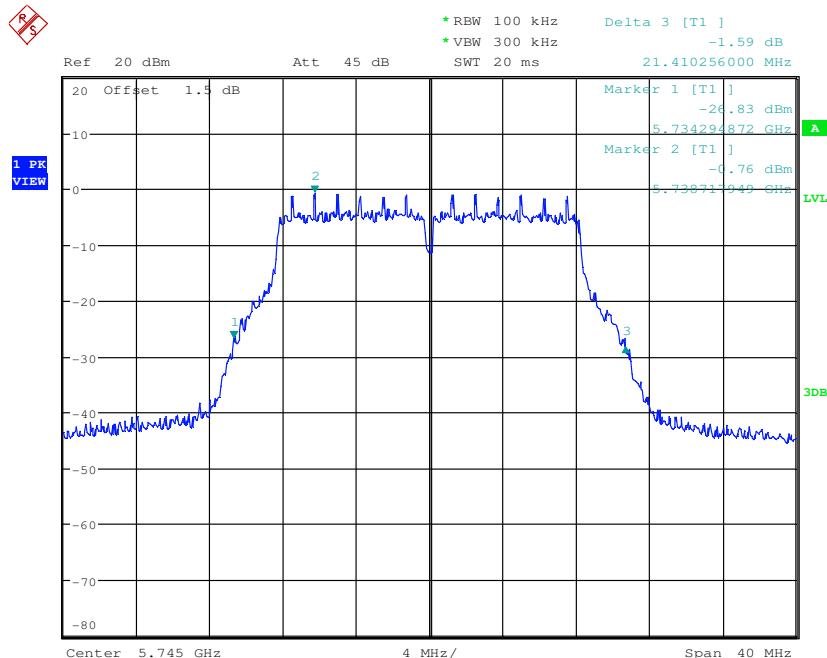


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

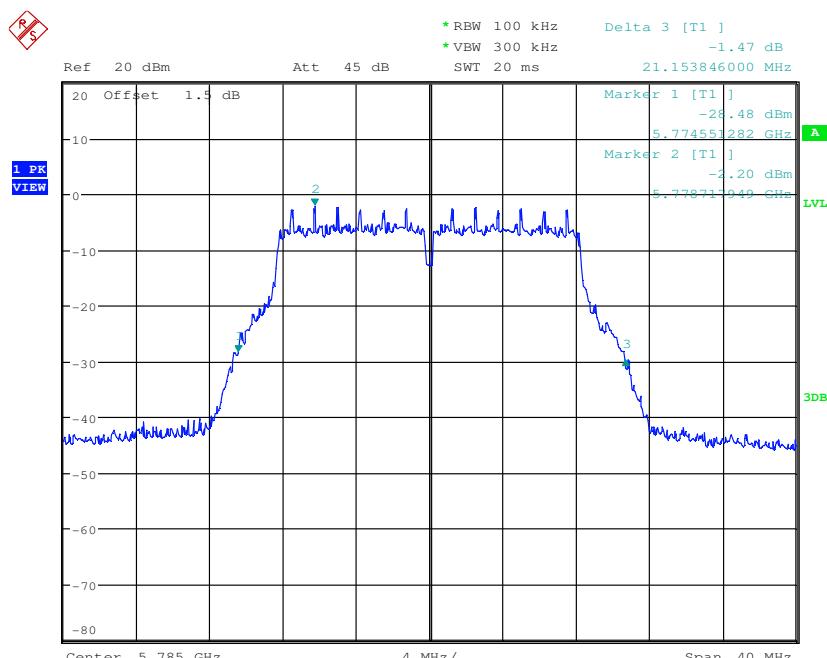


Report No.: SZEM160200065905
Page: 72 of 306

Test mode:	802.11a	Frequency(MHz):	5745
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5785
------------	---------	-----------------	------

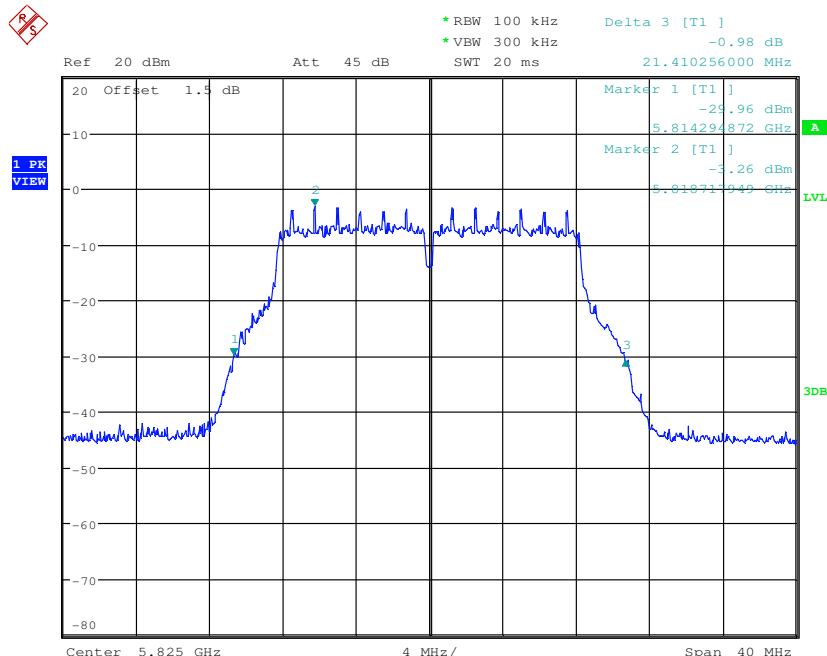


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

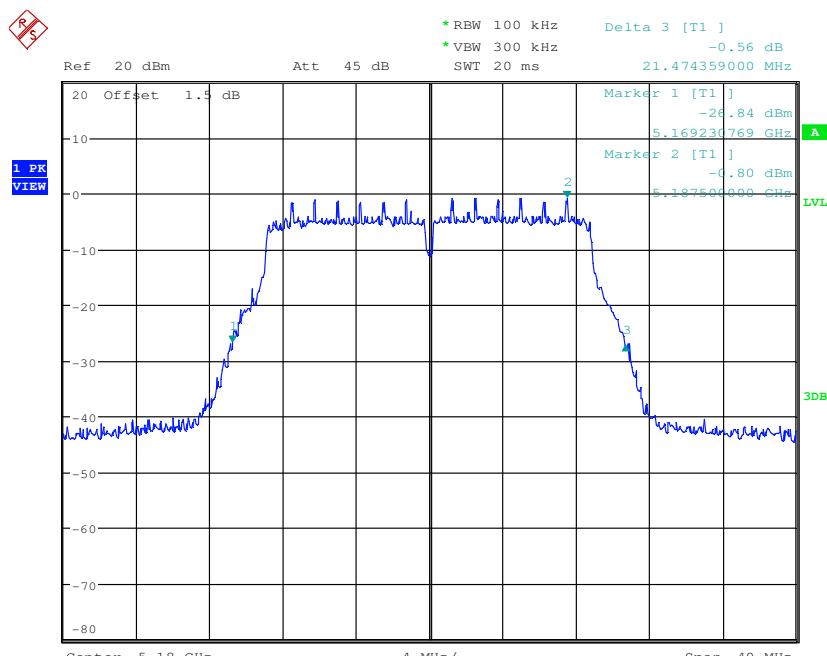


Report No.: SZEM160200065905
Page: 73 of 306

Test mode:	802.11a	Frequency(MHz):	5825
------------	---------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5180
------------	------------	-----------------	------

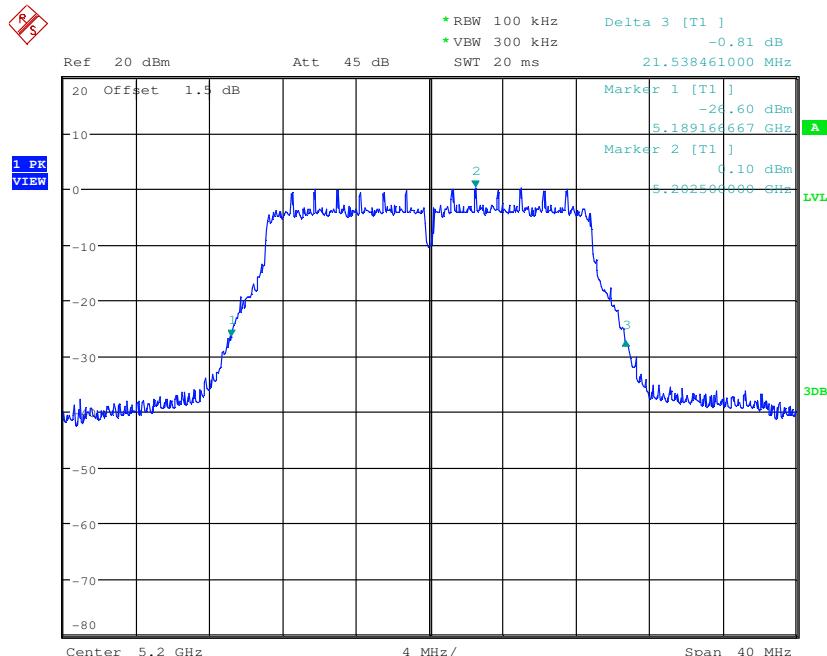


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

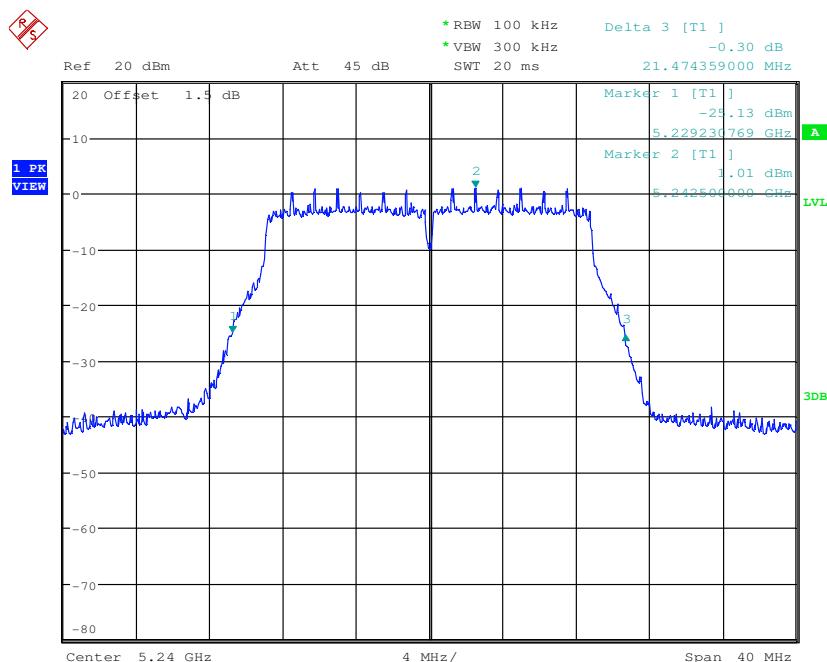


Report No.: SZEM160200065905
Page: 74 of 306

Test mode:	802.11 n20	Frequency(MHz):	5200
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5240
------------	------------	-----------------	------



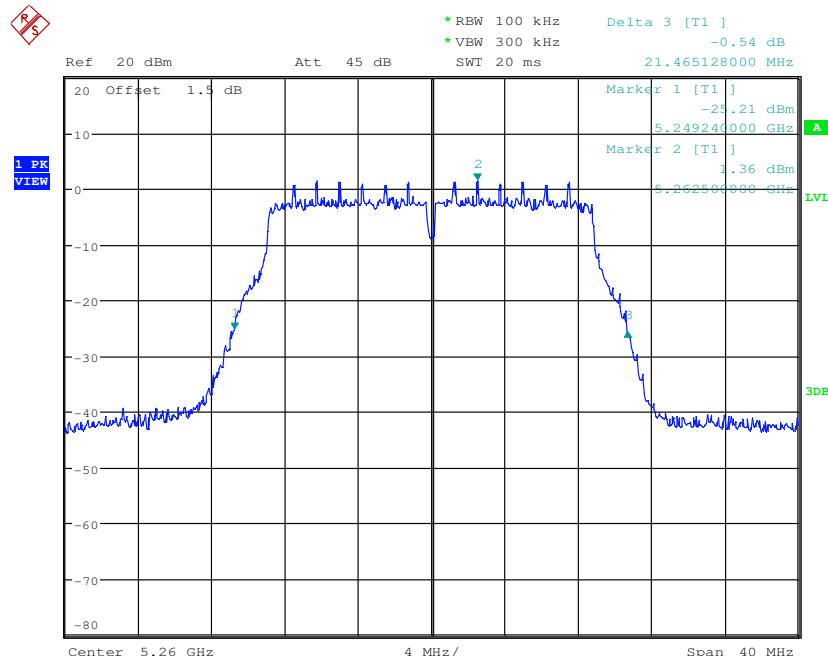
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

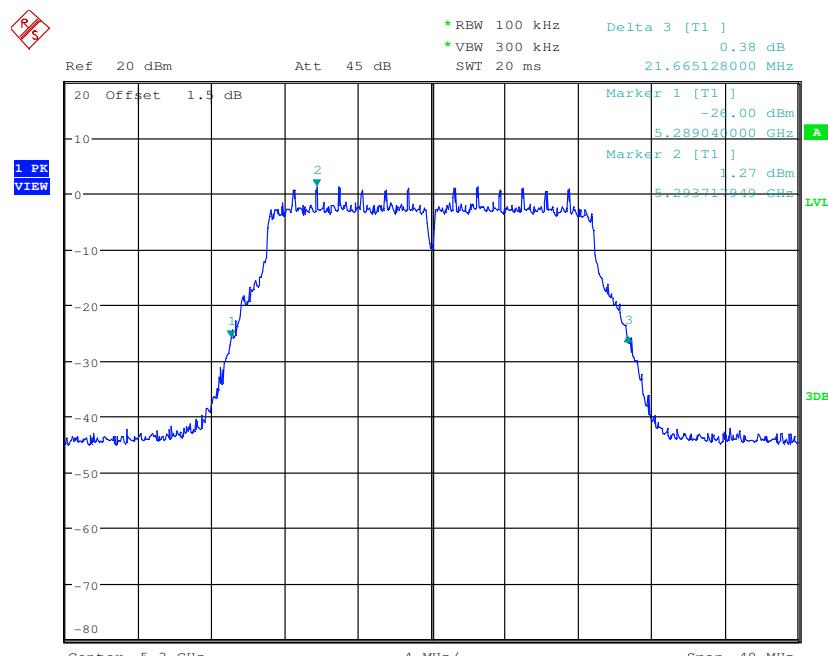


Report No.: SZEM160200065905
Page: 75 of 306

Test mode:	802.11 n20	Frequency(MHz):	5260
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5300
------------	------------	-----------------	------



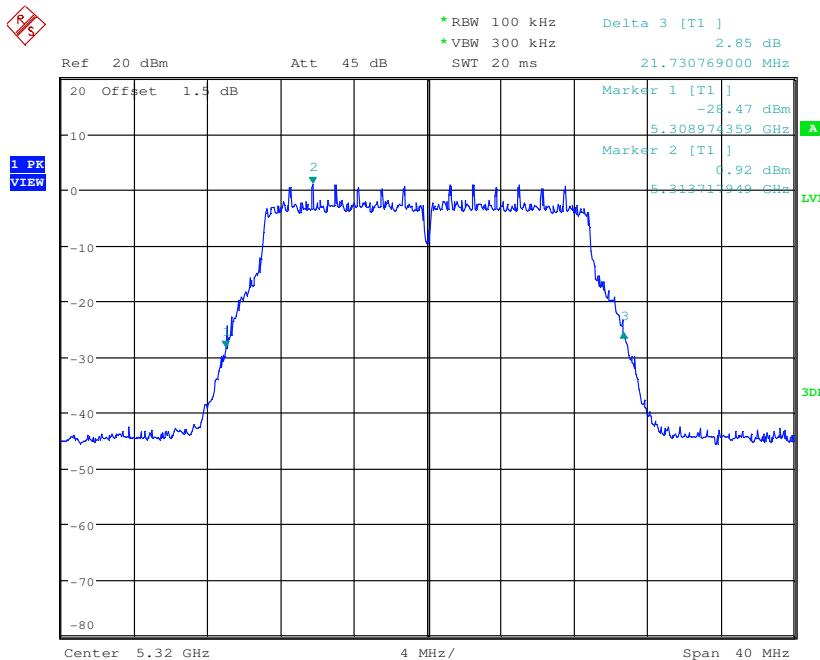
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

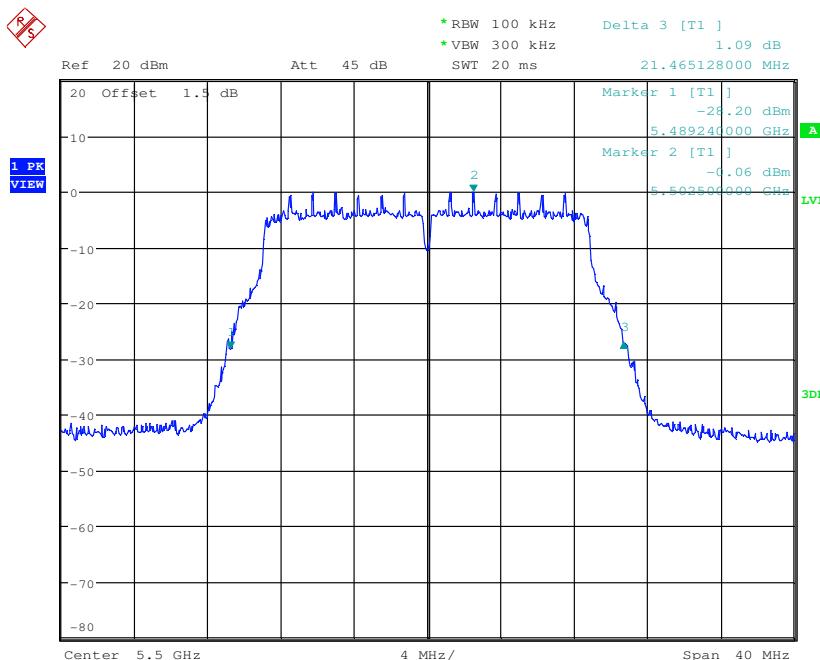


Report No.: SZEM160200065905
Page: 76 of 306

Test mode:	802.11 n20	Frequency(MHz):	5320
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5500
------------	------------	-----------------	------

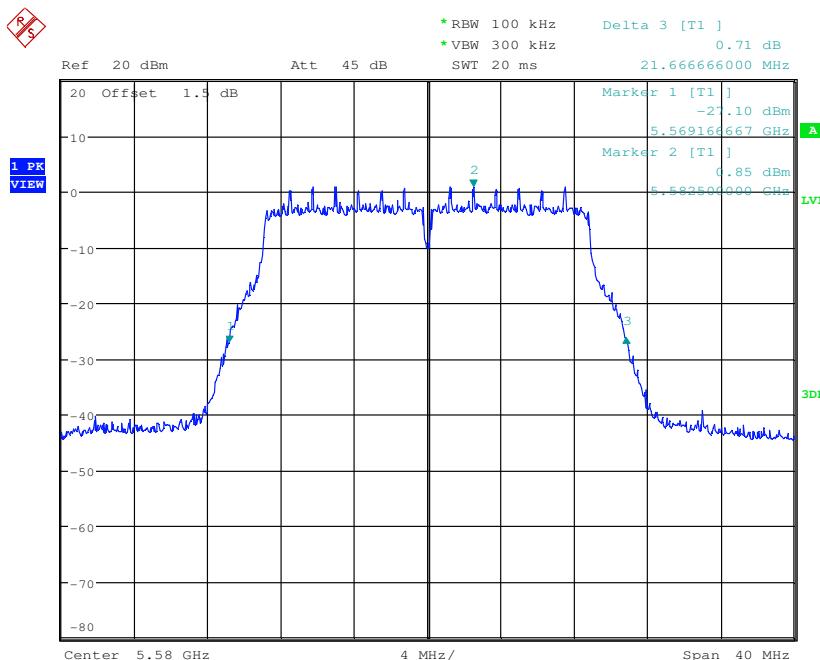


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

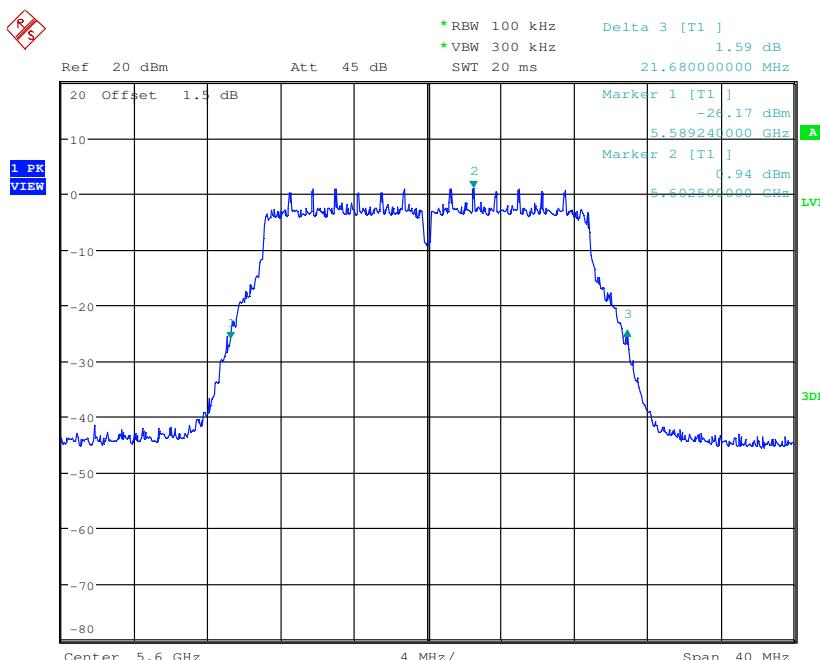


Report No.: SZEM160200065905
Page: 77 of 306

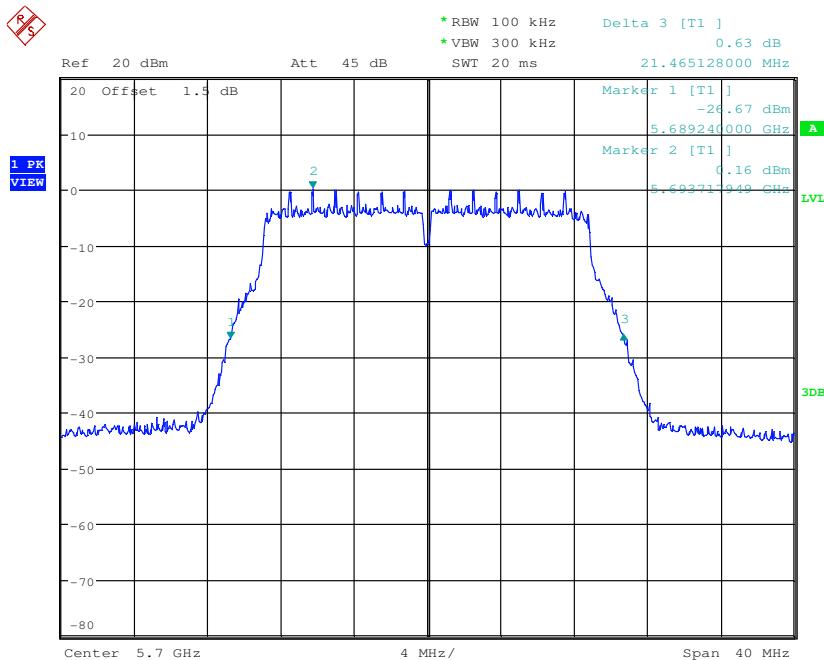
Test mode:	802.11 n20	Frequency(MHz):	5580
------------	------------	-----------------	------



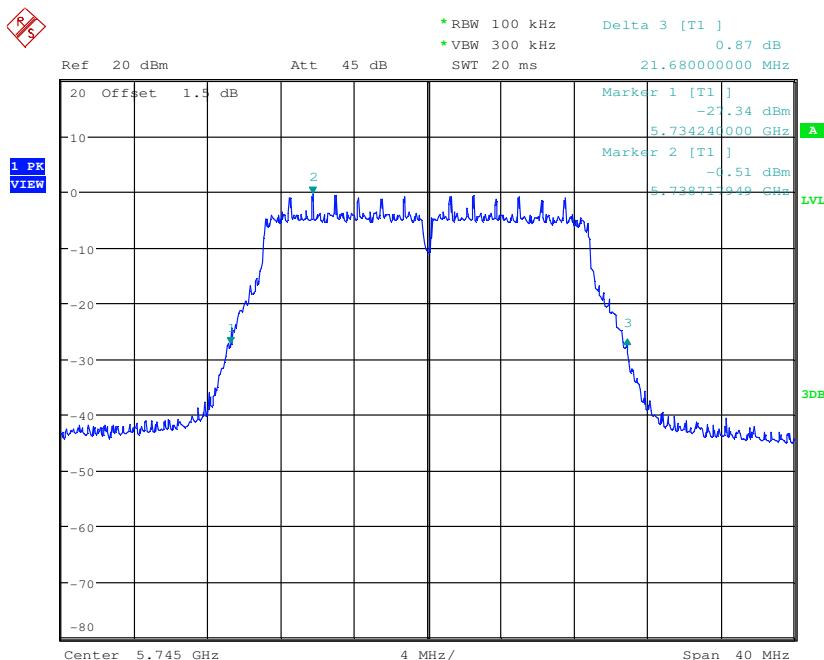
Test mode:	802.11 n20	Frequency(MHz):	5600
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5700
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5745
------------	------------	-----------------	------

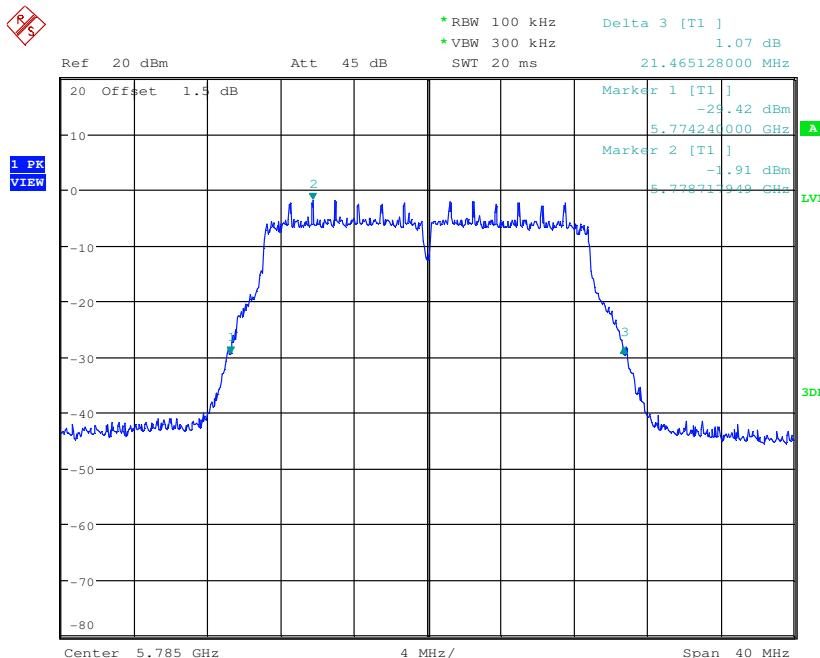


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

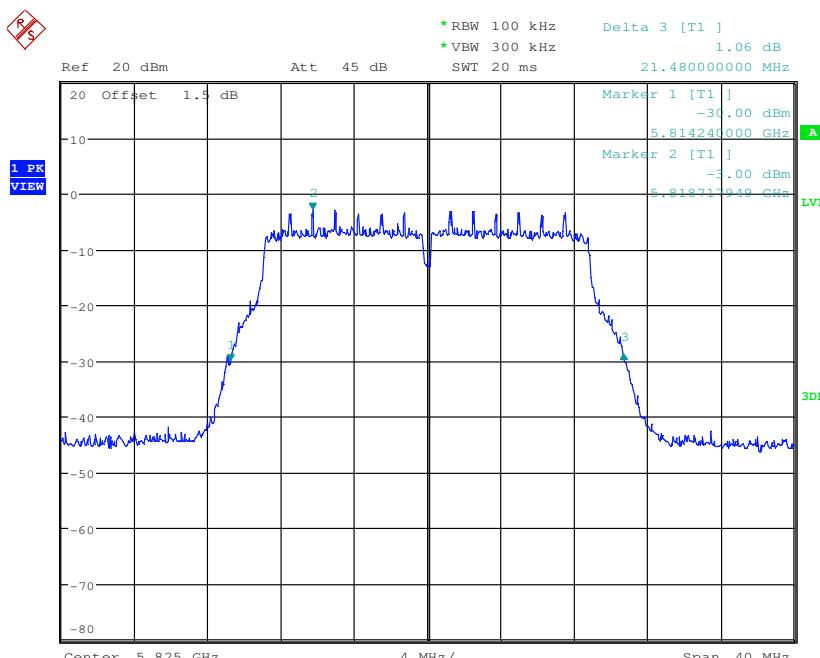


Report No.: SZEM160200065905
Page: 79 of 306

Test mode:	802.11 n20	Frequency(MHz):	5785
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5825
------------	------------	-----------------	------

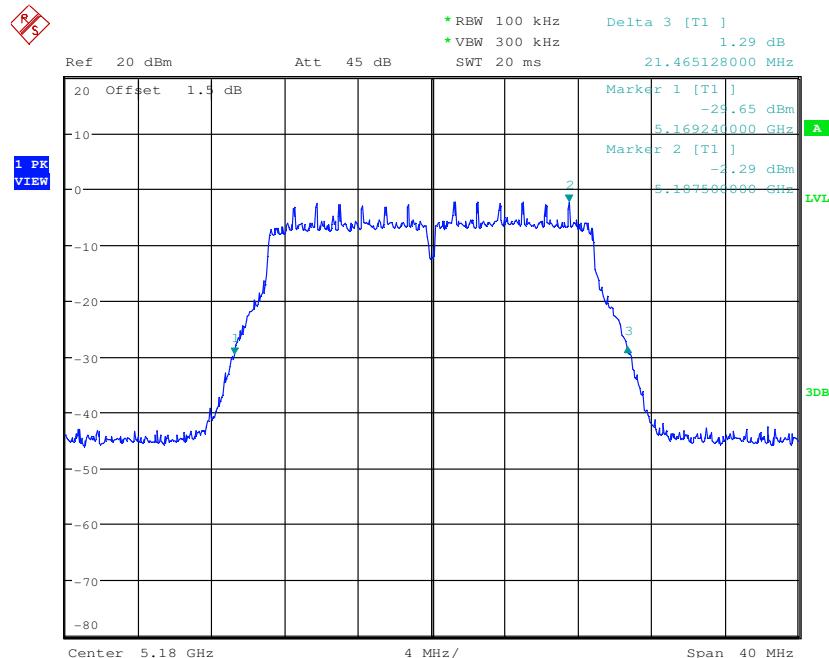


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

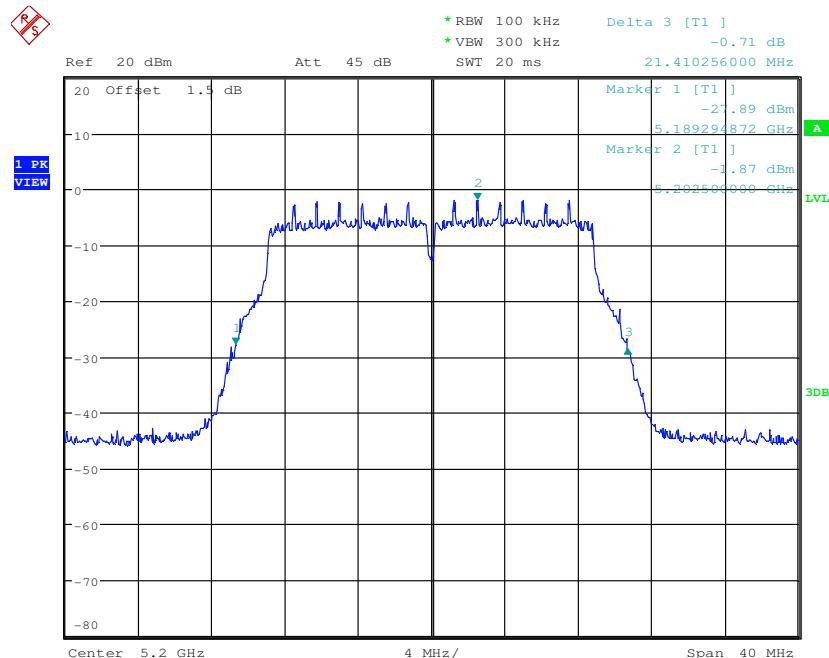


Report No.: SZEM160200065905
Page: 80 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5180
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5200
------------	-------------	-----------------	------

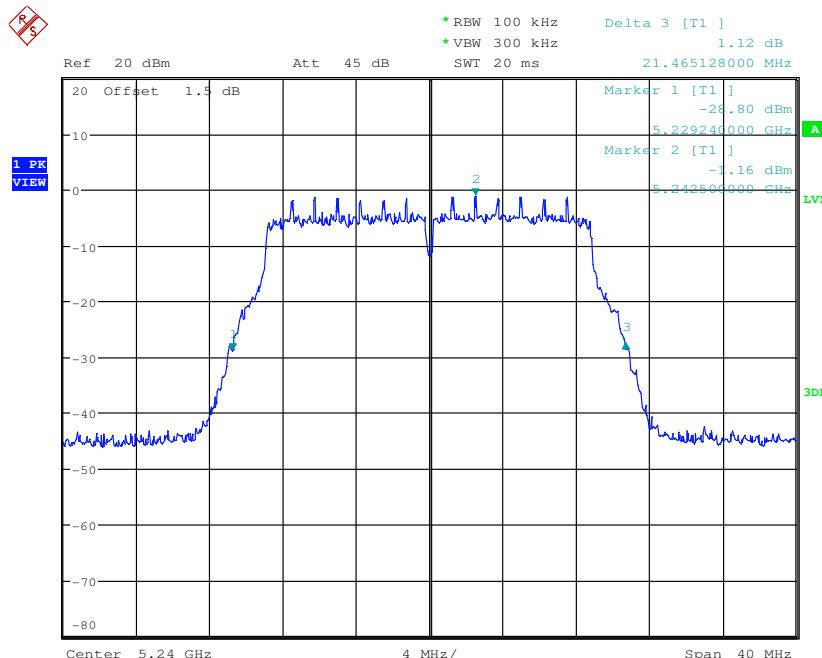


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

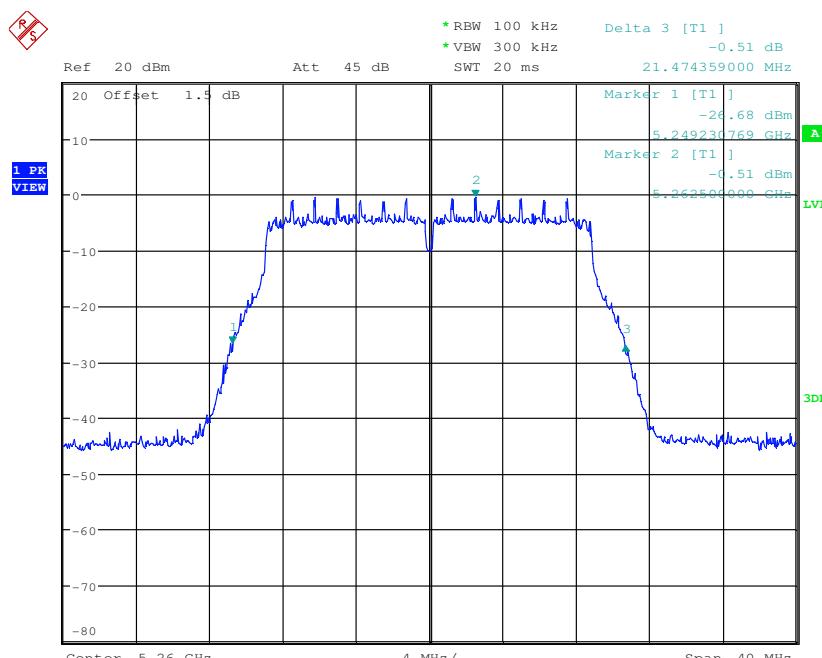


Report No.: SZEM160200065905
Page: 81 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5240
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5260
------------	-------------	-----------------	------

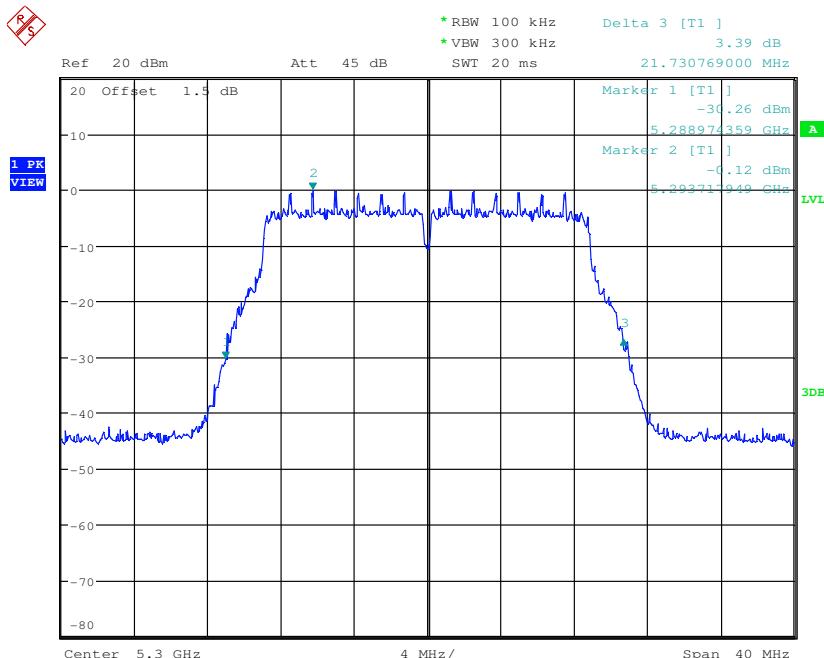


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

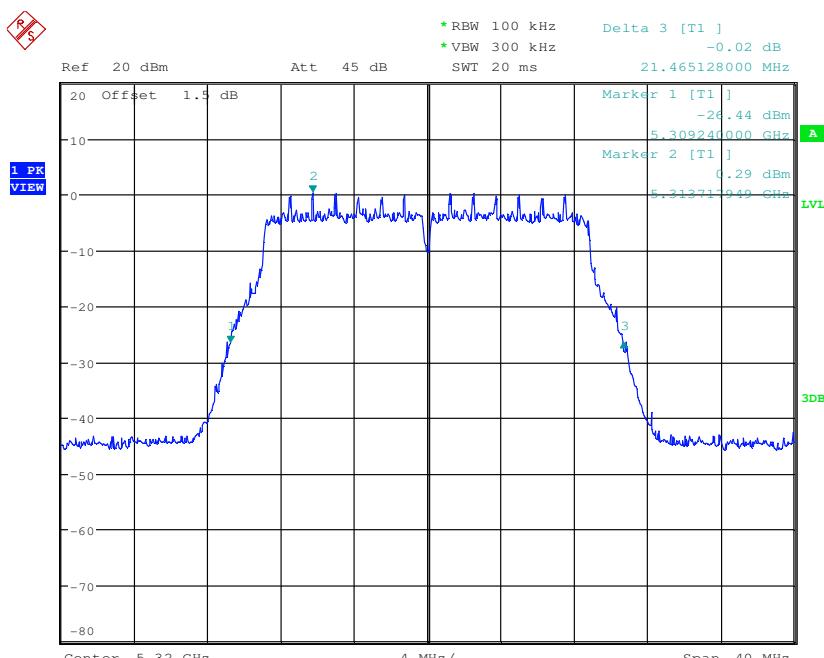


Report No.: SZEM160200065905
Page: 82 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5300
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5320
------------	-------------	-----------------	------

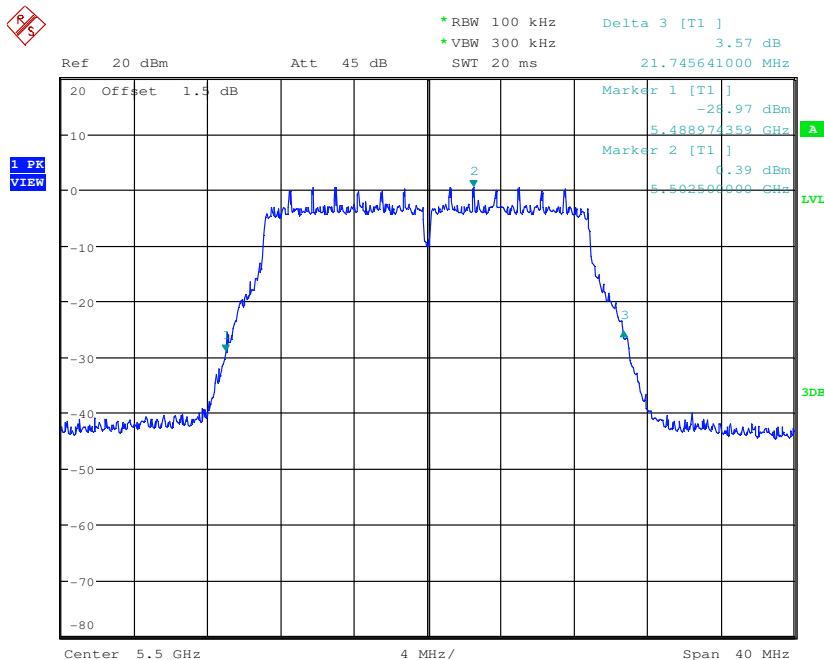


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

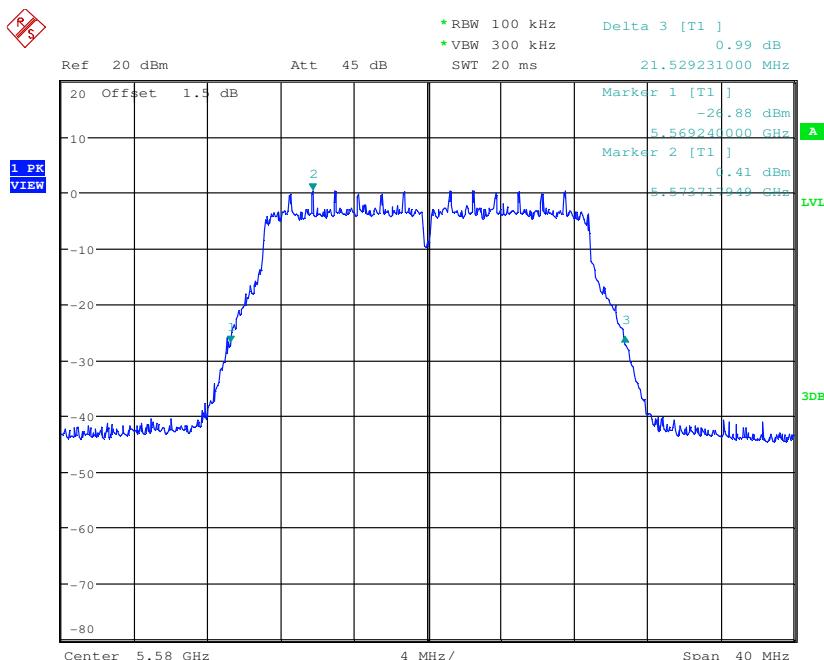


Report No.: SZEM160200065905
Page: 83 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5500
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5580
------------	-------------	-----------------	------

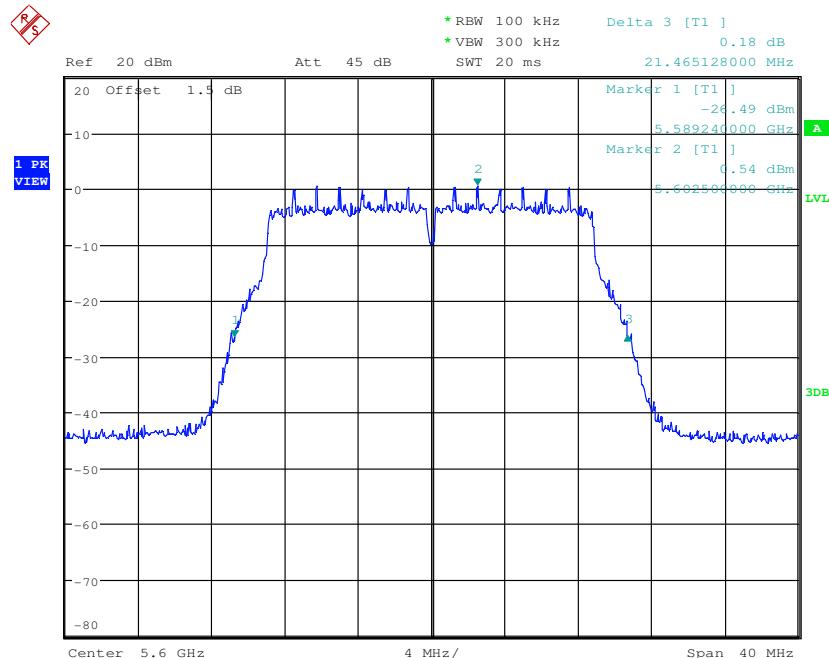


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

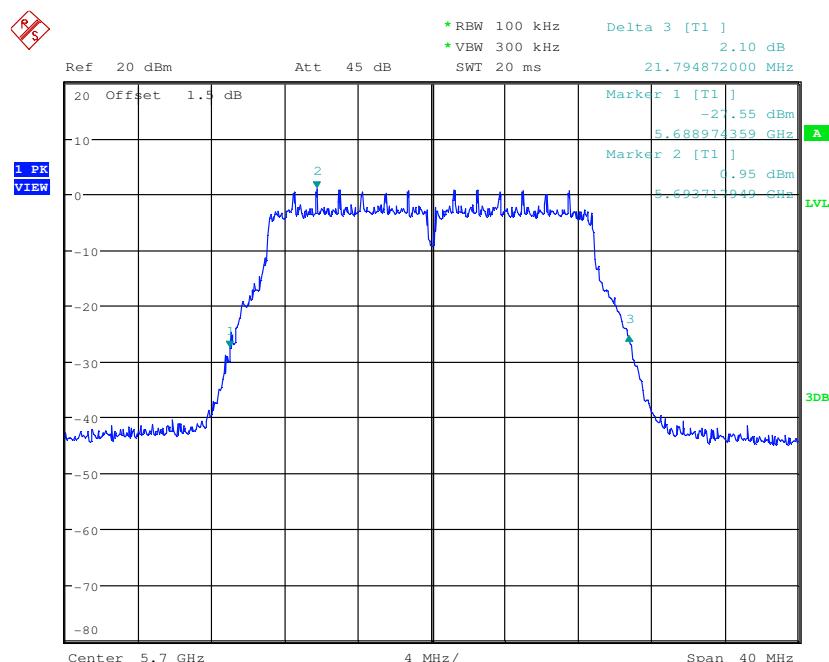


Report No.: SZEM160200065905
Page: 84 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5600
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5700
------------	-------------	-----------------	------



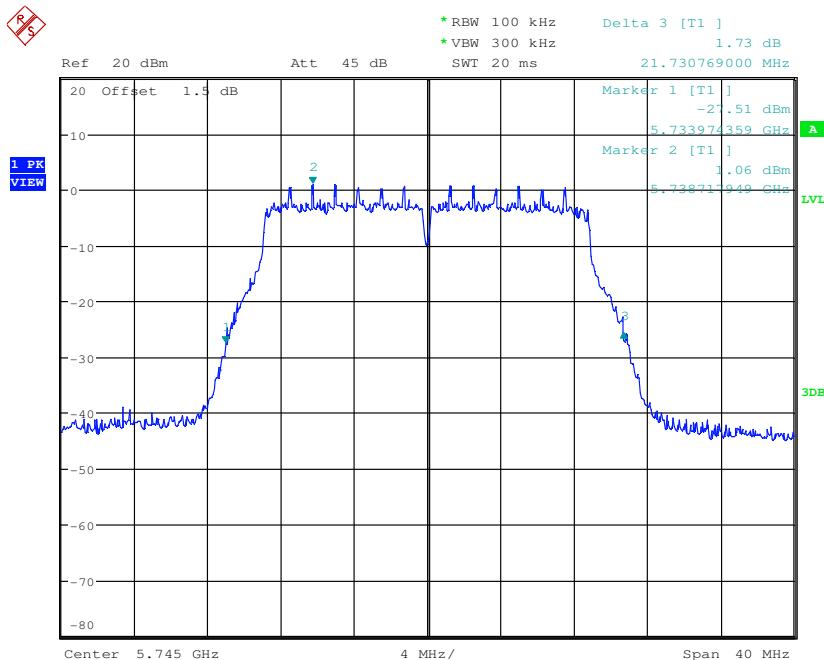
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

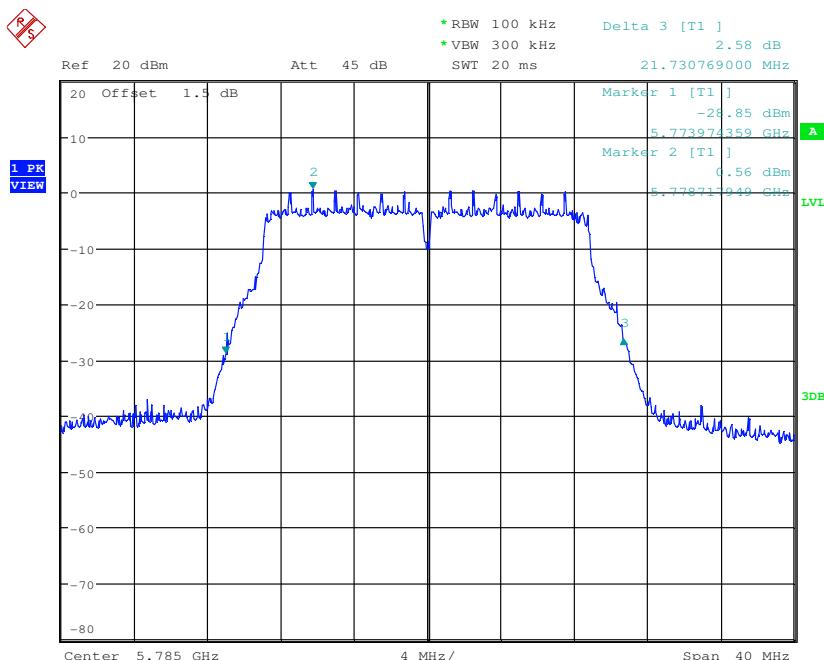


Report No.: SZEM160200065905
Page: 85 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5745
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5785
------------	-------------	-----------------	------

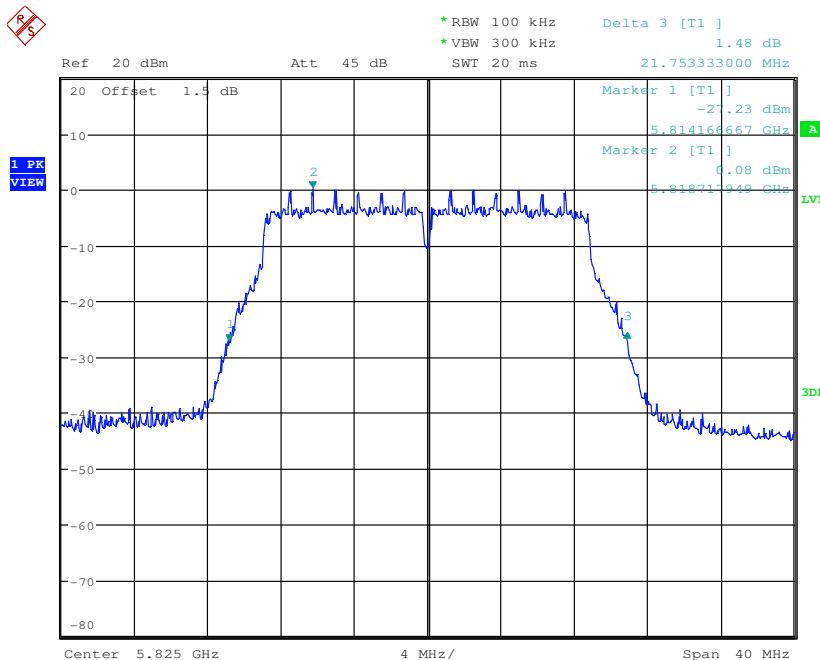


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

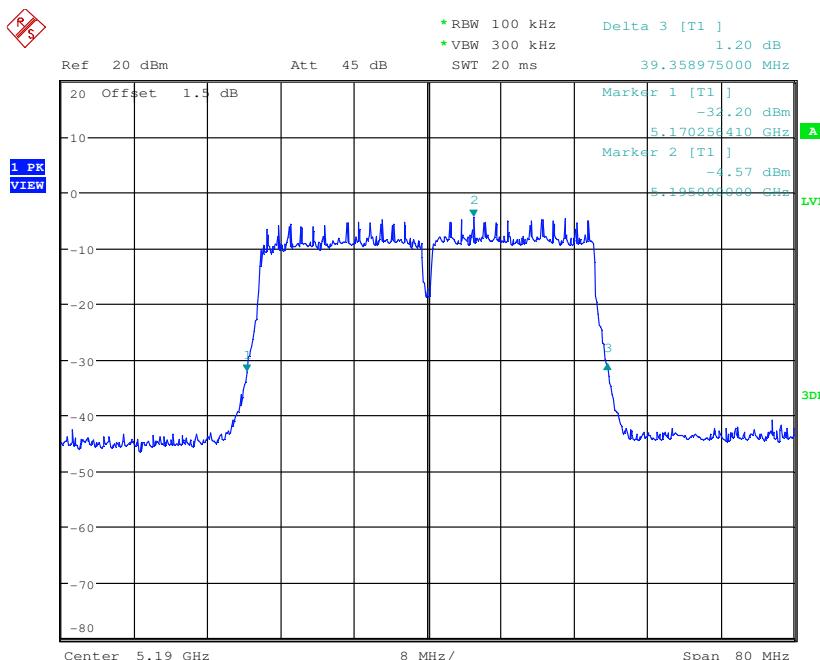


Report No.: SZEM160200065905
Page: 86 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5825
------------	-------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5190
------------	------------	-----------------	------

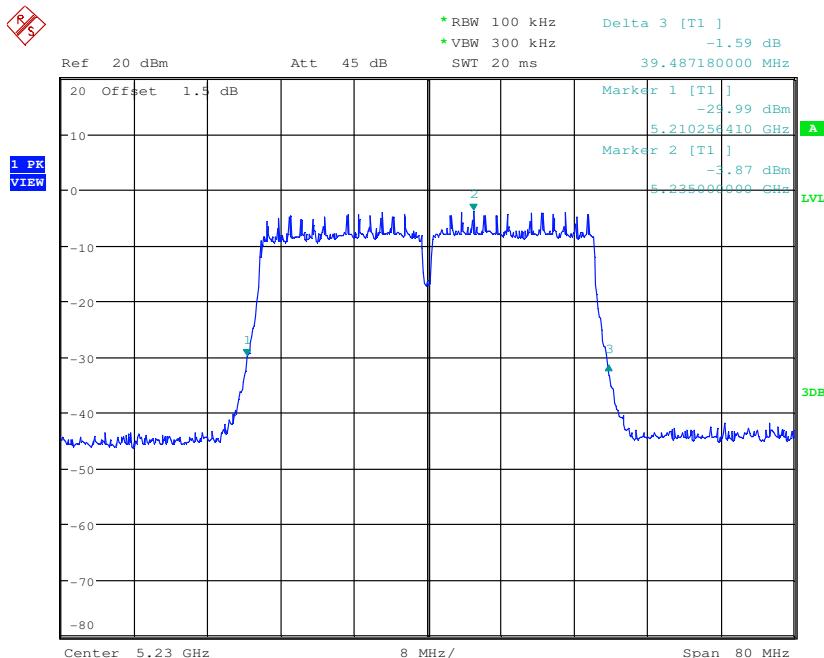


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

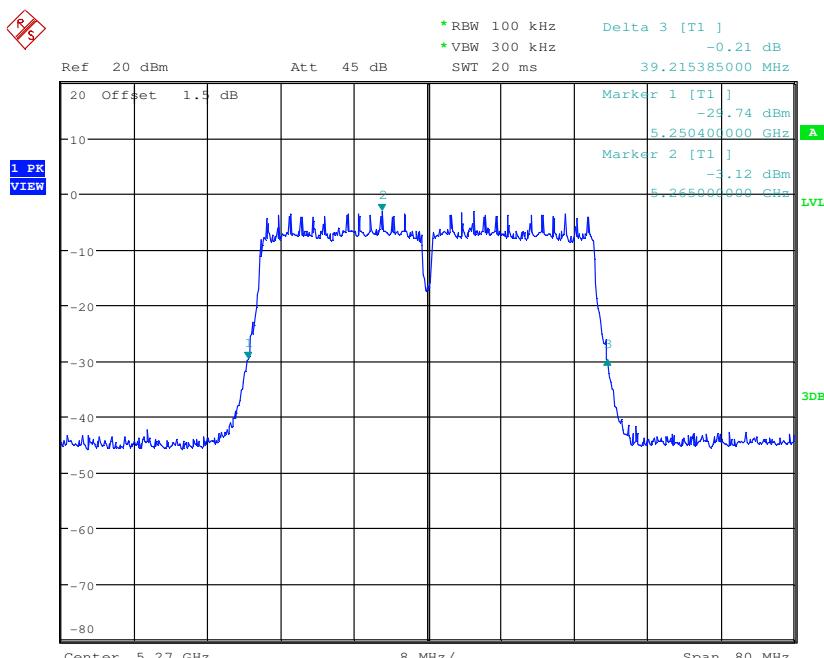


Report No.: SZEM160200065905
Page: 87 of 306

Test mode:	802.11 n40	Frequency(MHz):	5230
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5270
------------	------------	-----------------	------

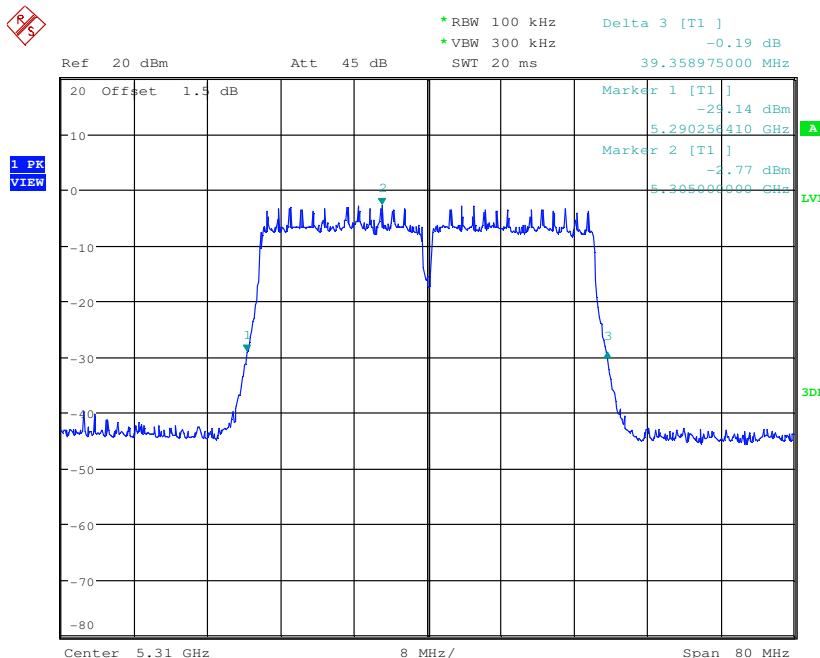


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

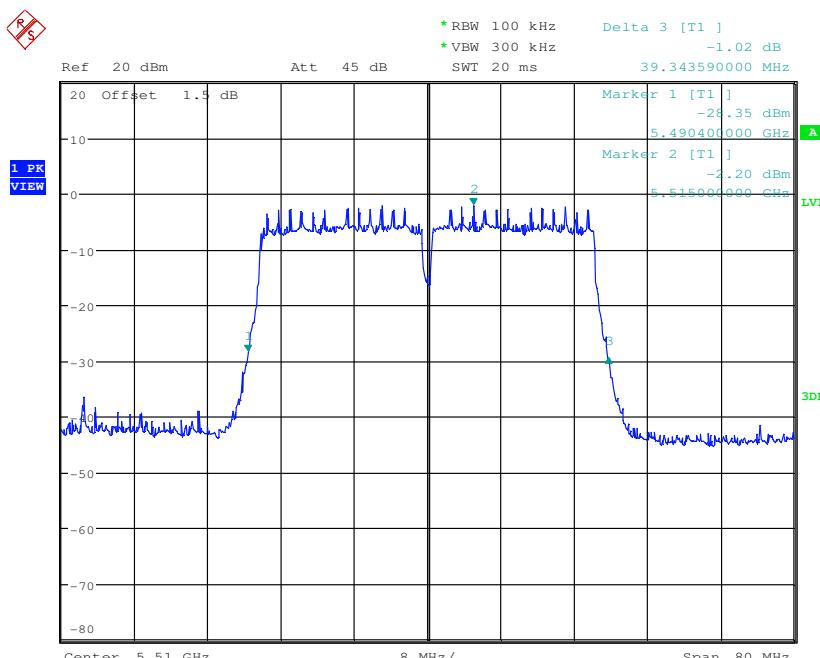


Report No.: SZEM160200065905
Page: 88 of 306

Test mode:	802.11 n40	Frequency(MHz):	5310
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5510
------------	------------	-----------------	------

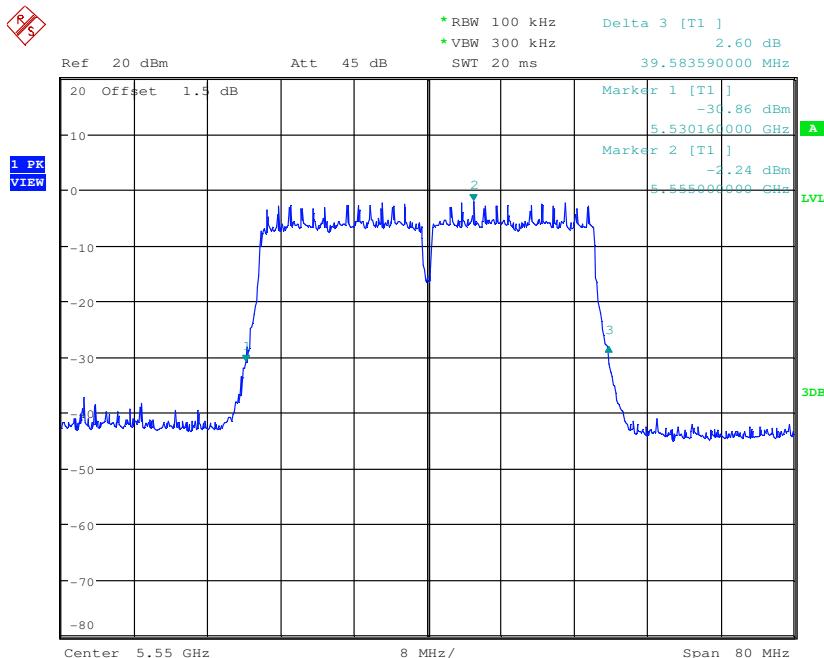


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

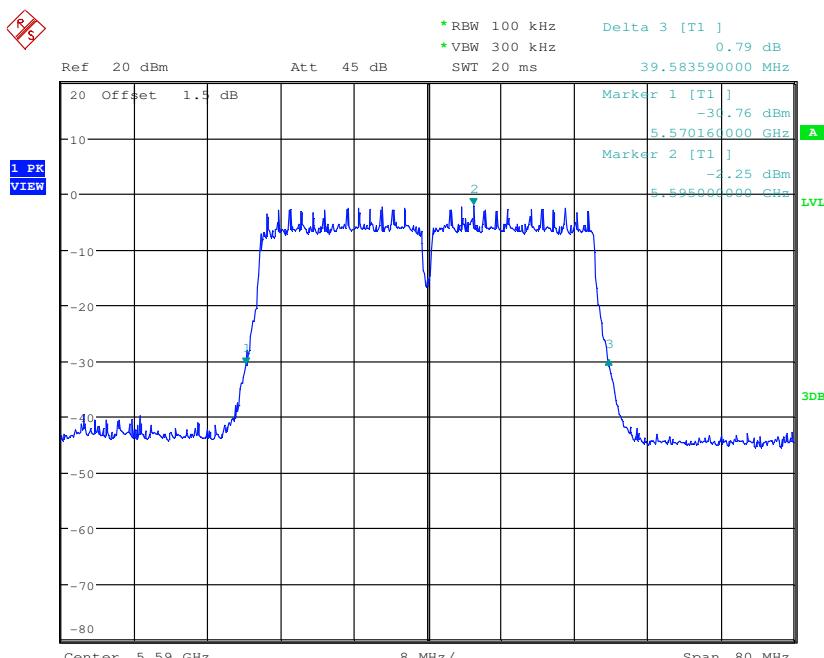


Report No.: SZEM160200065905
Page: 89 of 306

Test mode:	802.11 n40	Frequency(MHz):	5550
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5590
------------	------------	-----------------	------

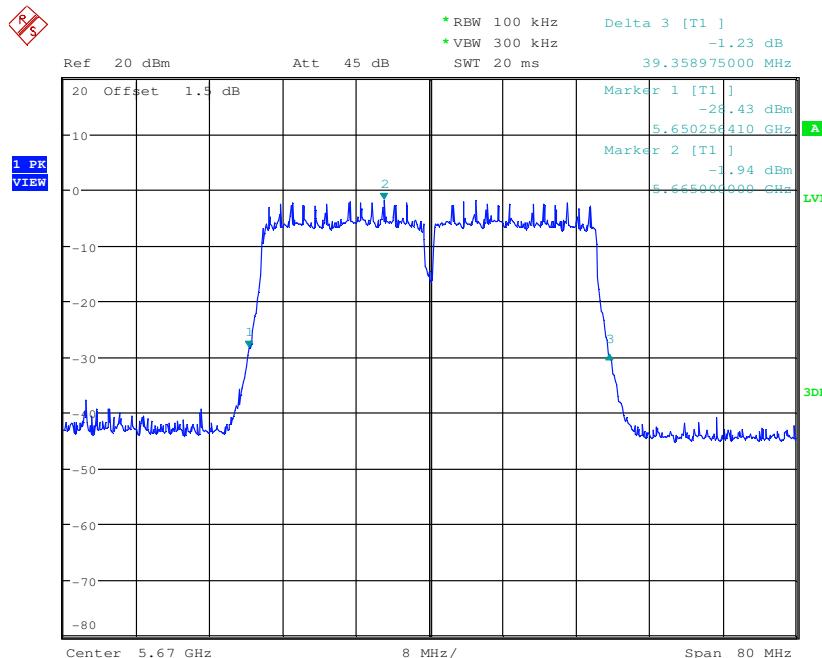


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

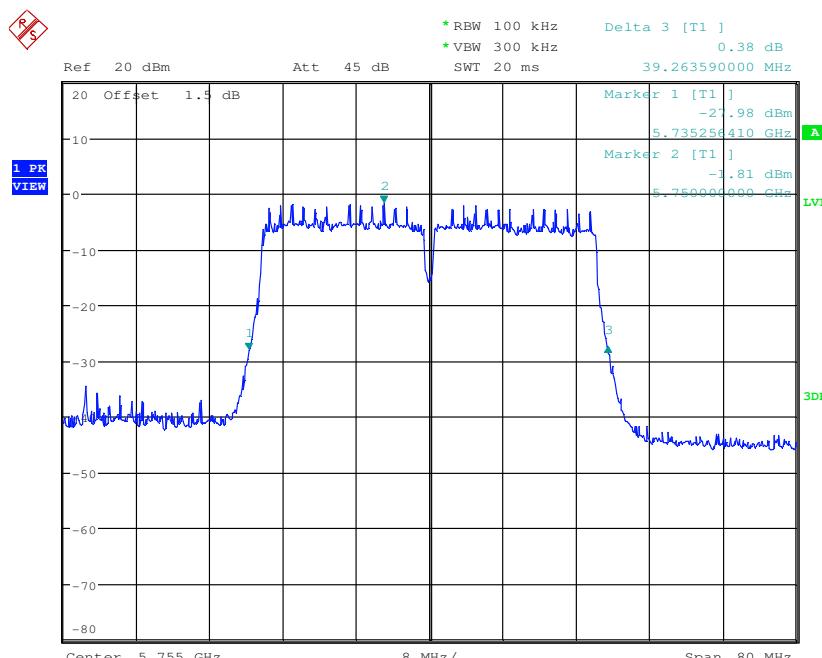


Report No.: SZEM160200065905
 Page: 90 of 306

Test mode:	802.11 n40	Frequency(MHz):	5670
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5755
------------	------------	-----------------	------

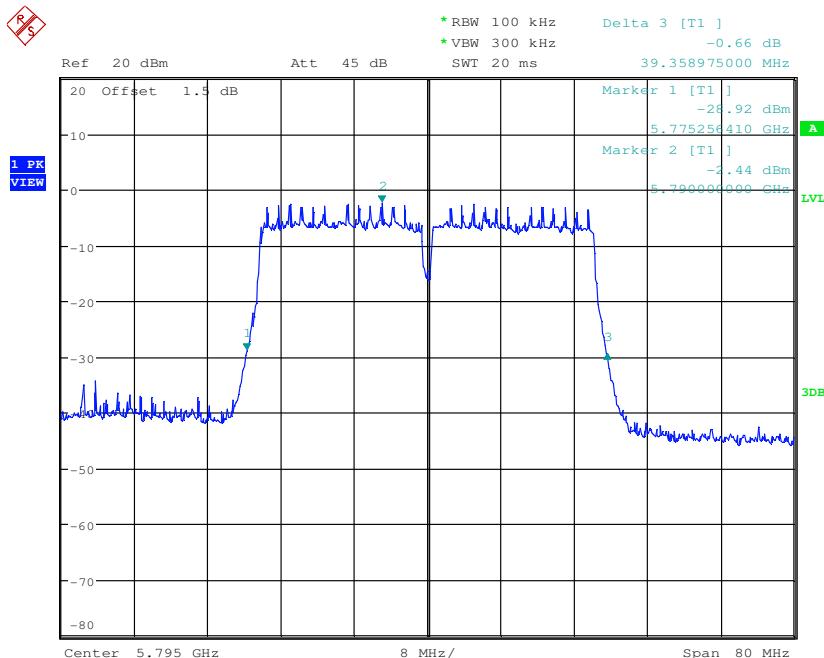


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

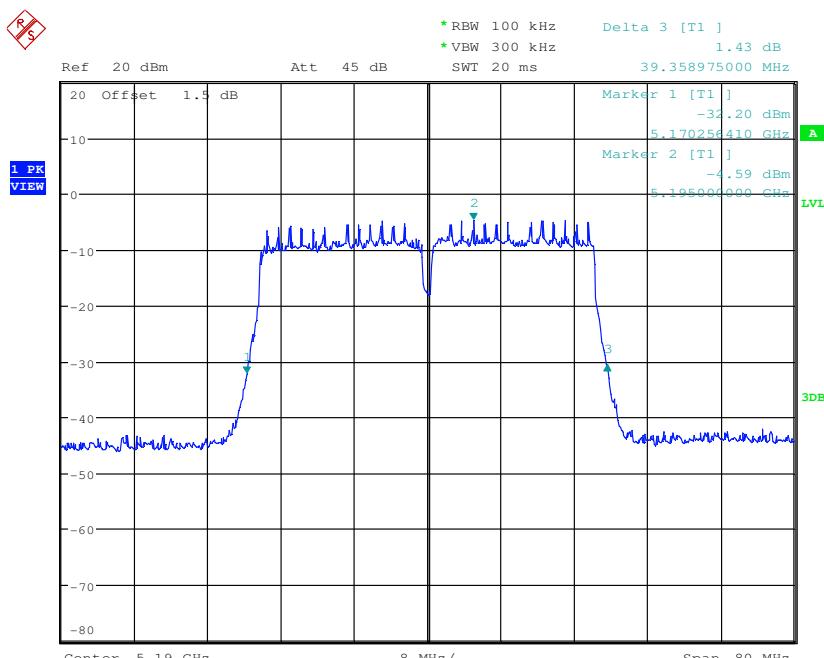


Report No.: SZEM160200065905
Page: 91 of 306

Test mode:	802.11 n40	Frequency(MHz):	5795
------------	------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5190
------------	-------------	-----------------	------

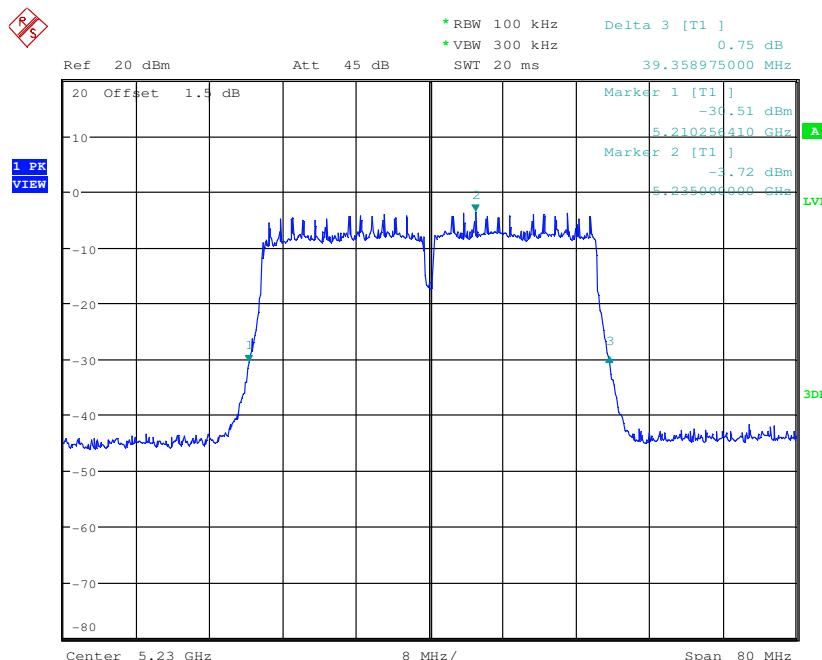


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

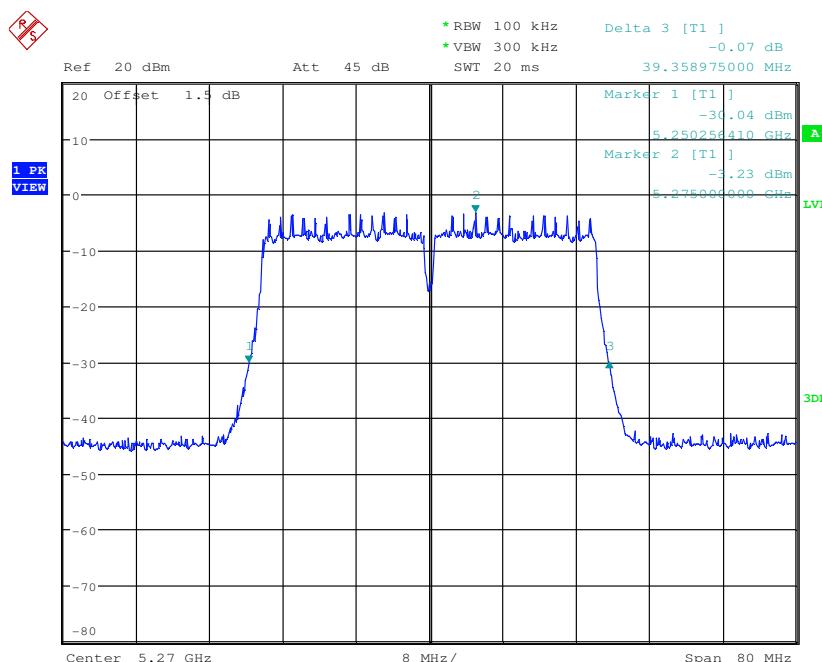


Report No.: SZEM160200065905
Page: 92 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5230
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5270
------------	-------------	-----------------	------

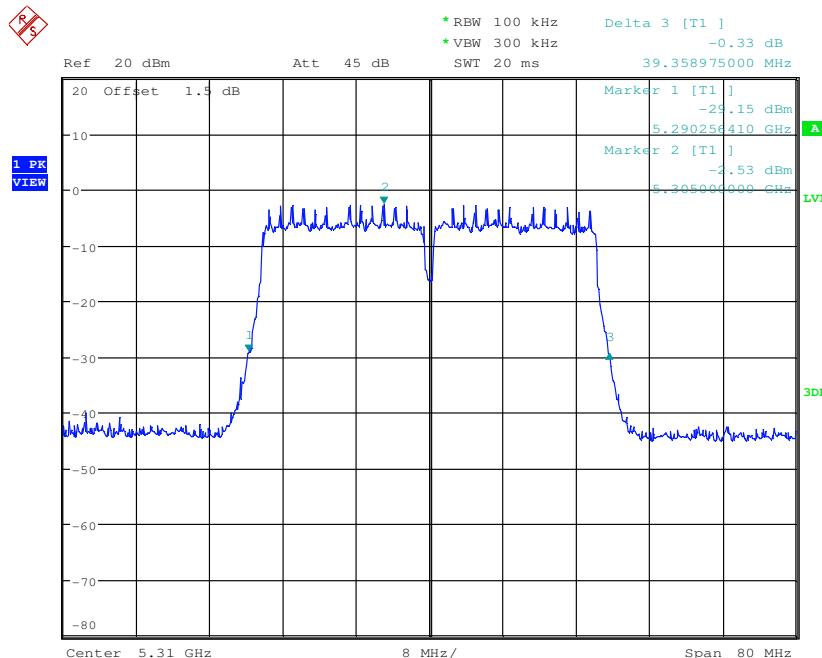


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

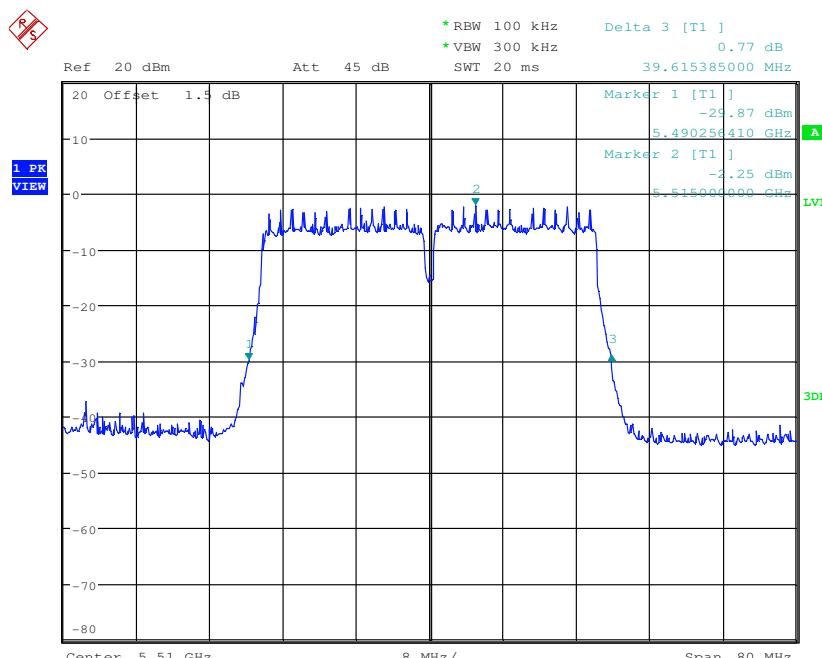


Report No.: SZEM160200065905
Page: 93 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5310
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5510
------------	-------------	-----------------	------

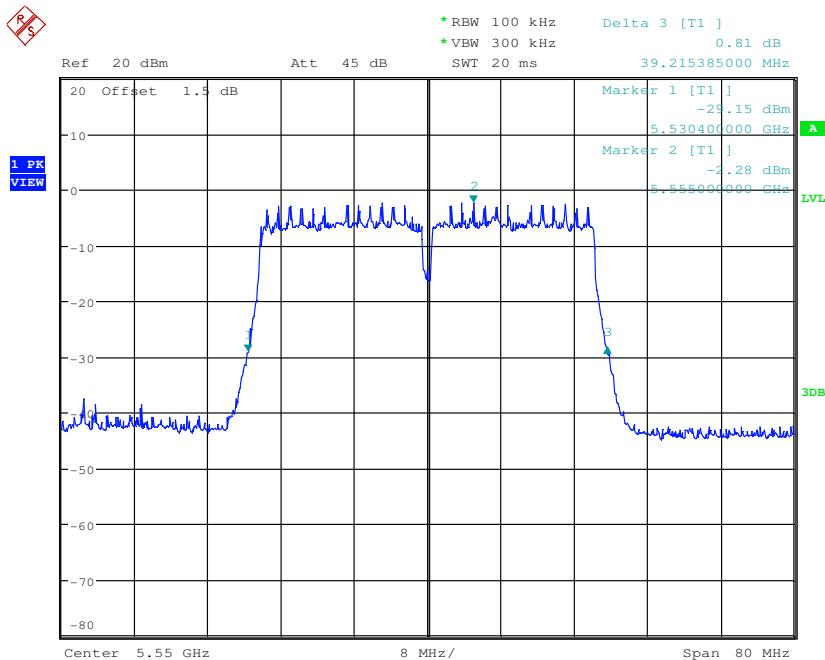


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

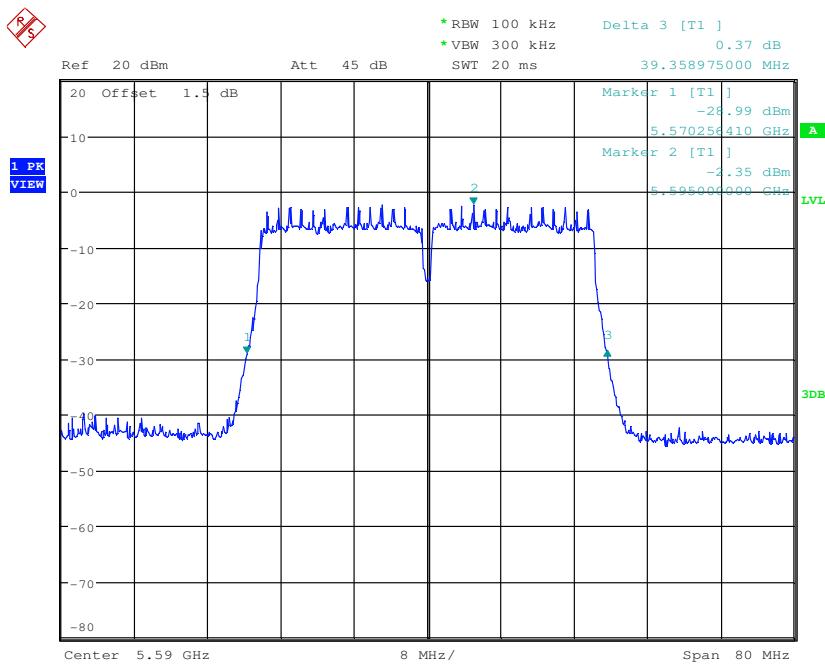


Report No.: SZEM160200065905
Page: 94 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5550
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5590
------------	-------------	-----------------	------



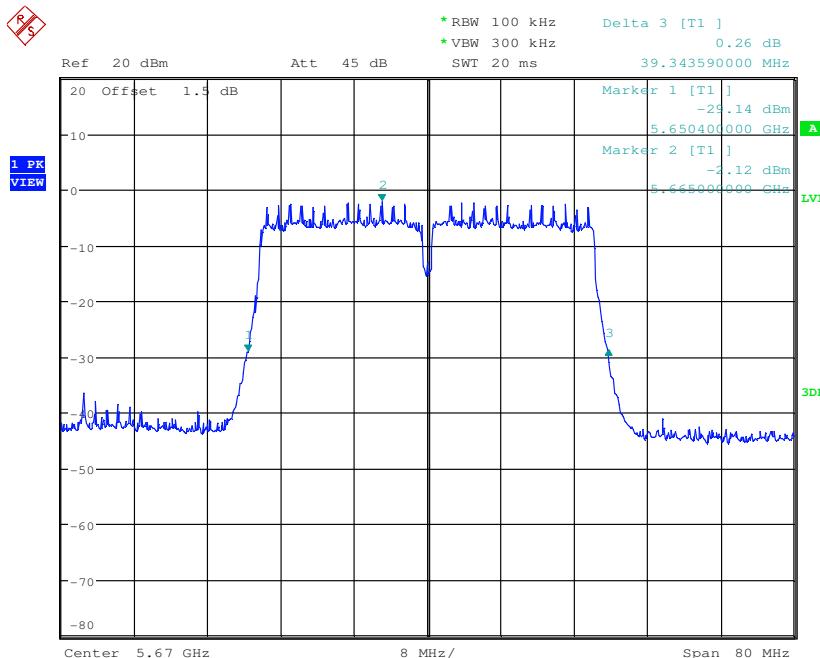
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

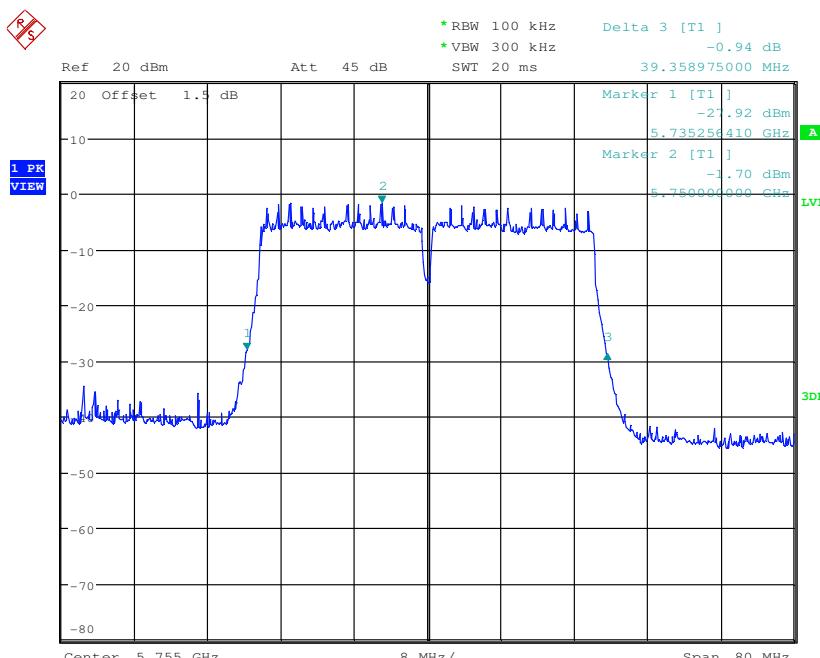


Report No.: SZEM160200065905
 Page: 95 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5670
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5755
------------	-------------	-----------------	------

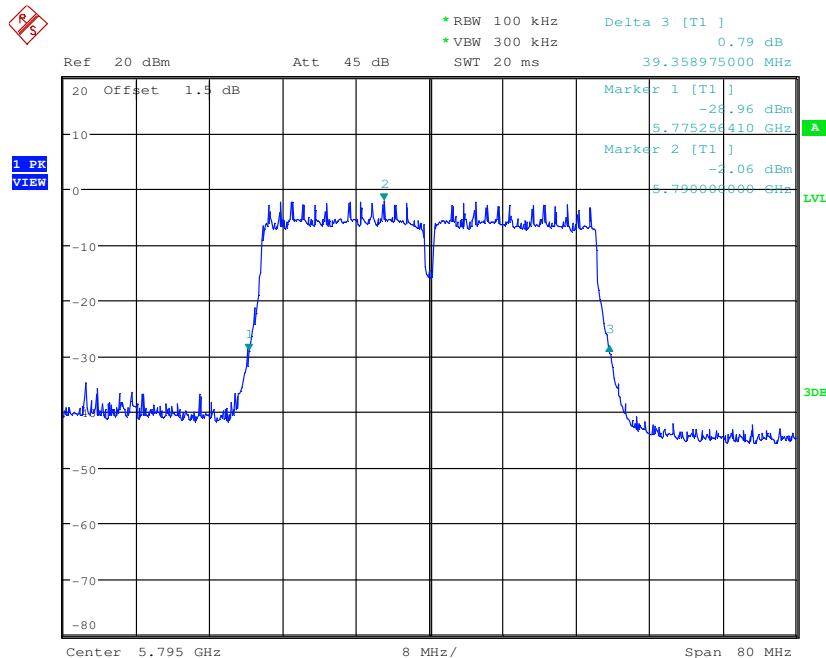


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

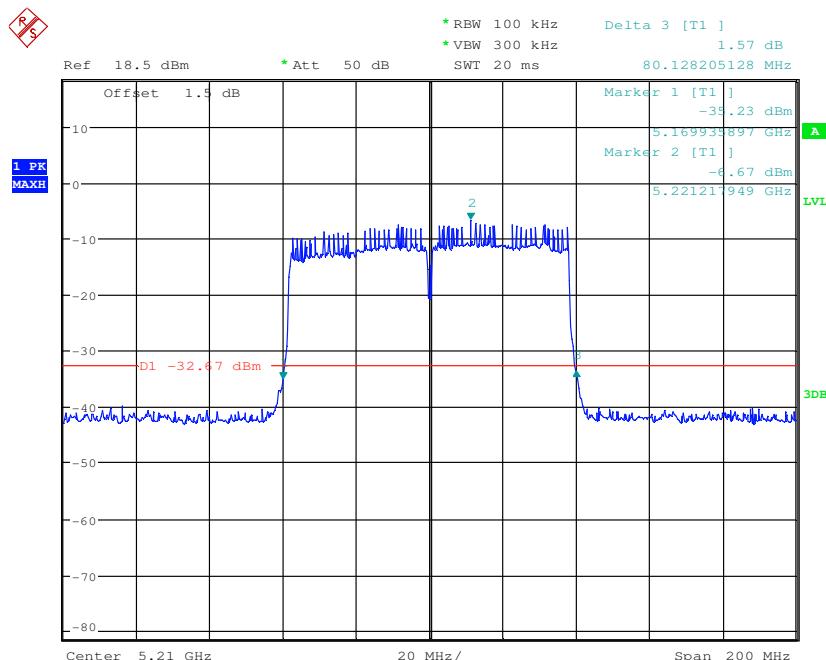


Report No.: SZEM160200065905
Page: 96 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5795
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5210
------------	-------------	-----------------	------

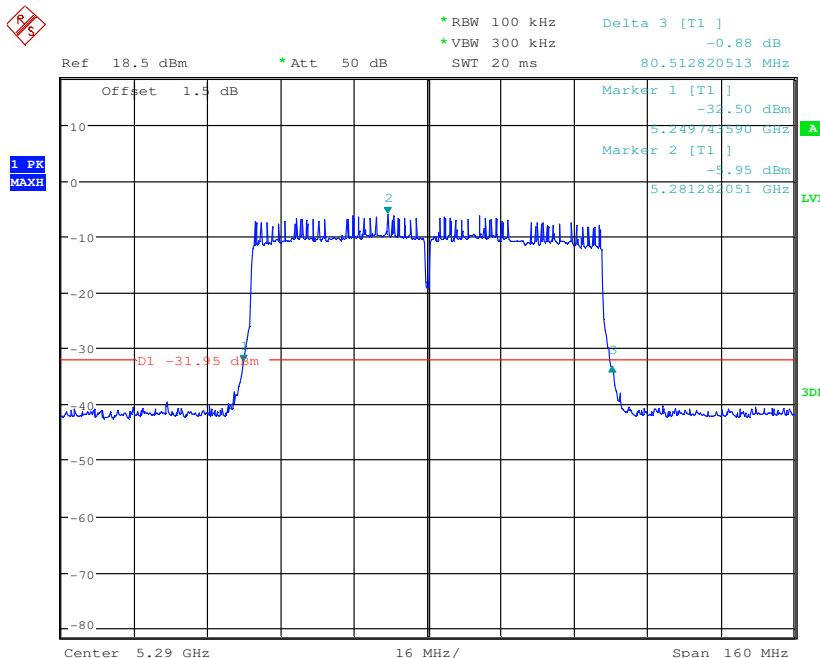


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

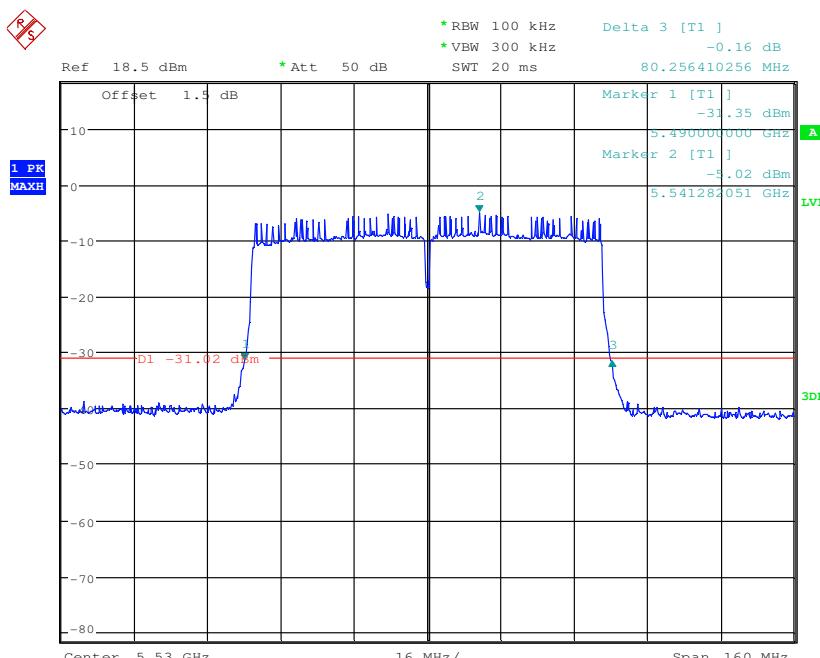


Report No.: SZEM160200065905
Page: 97 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5290
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5530
------------	-------------	-----------------	------

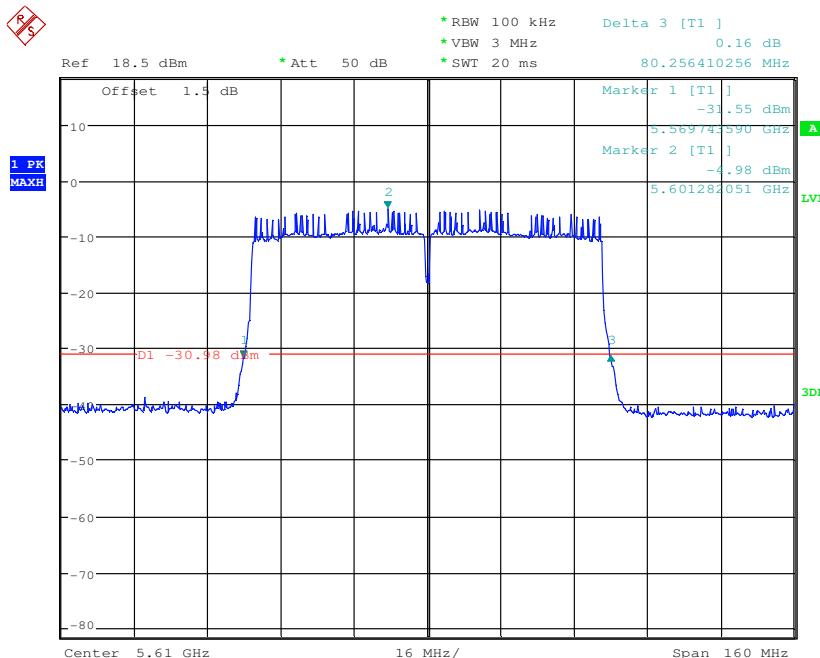


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

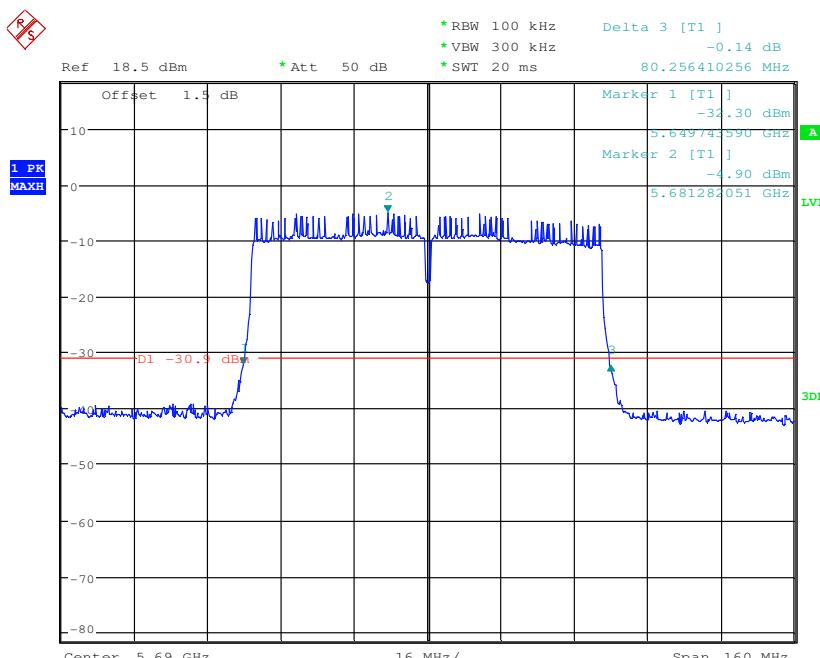


Report No.: SZEM160200065905
Page: 98 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5610
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5690
------------	-------------	-----------------	------

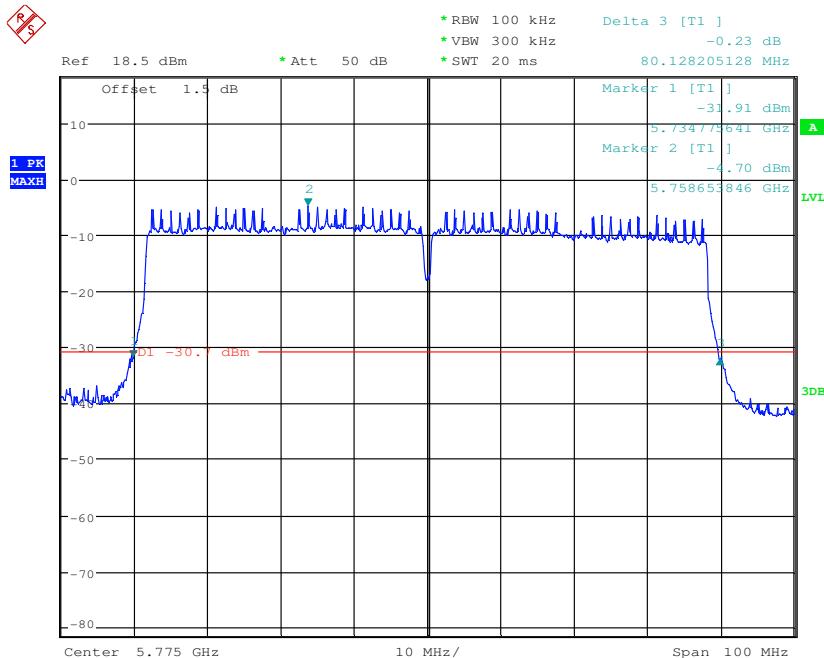


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 99 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5775
------------	-------------	-----------------	------



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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

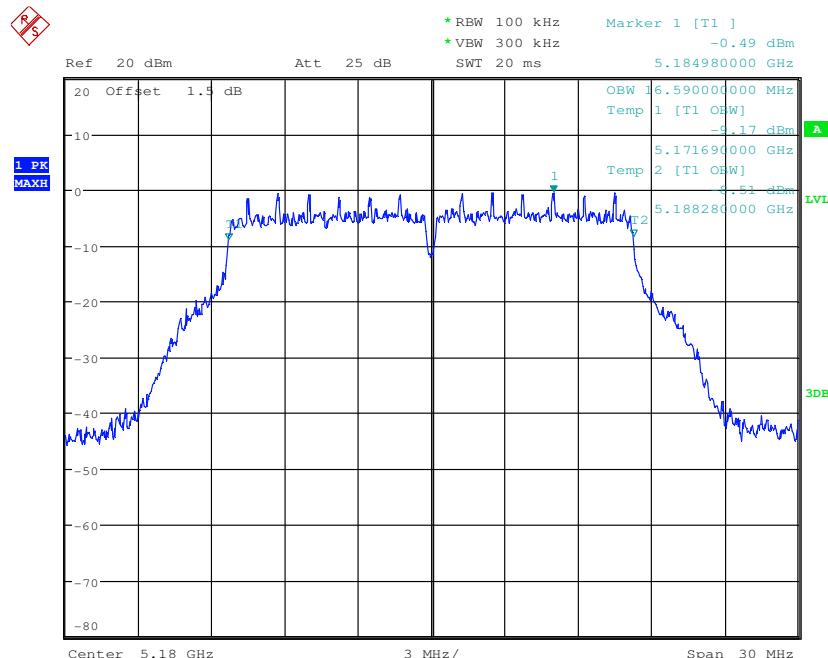


Report No.: SZEM160200065905
 Page: 100 of 306

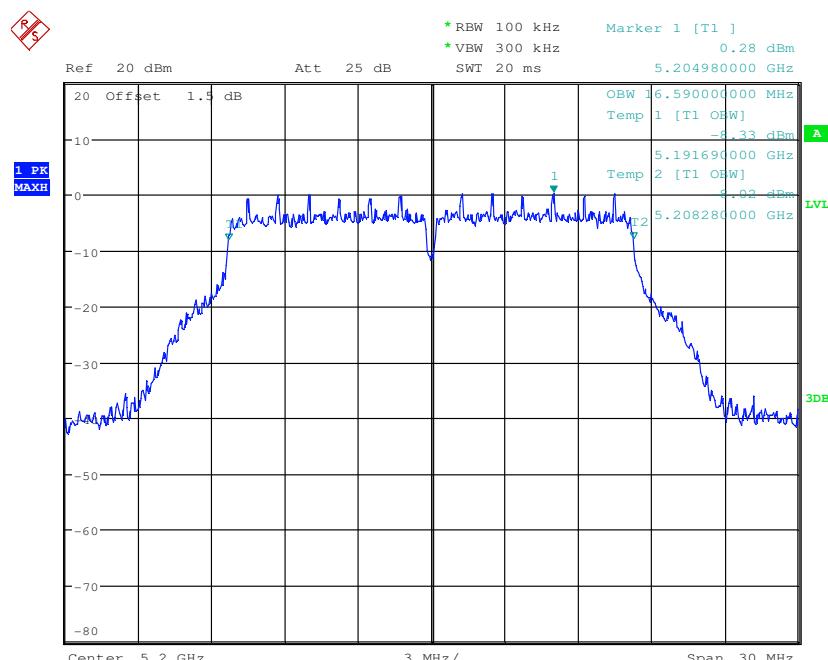
99% occupied bandwidth

Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5200
------------	---------	-----------------	------



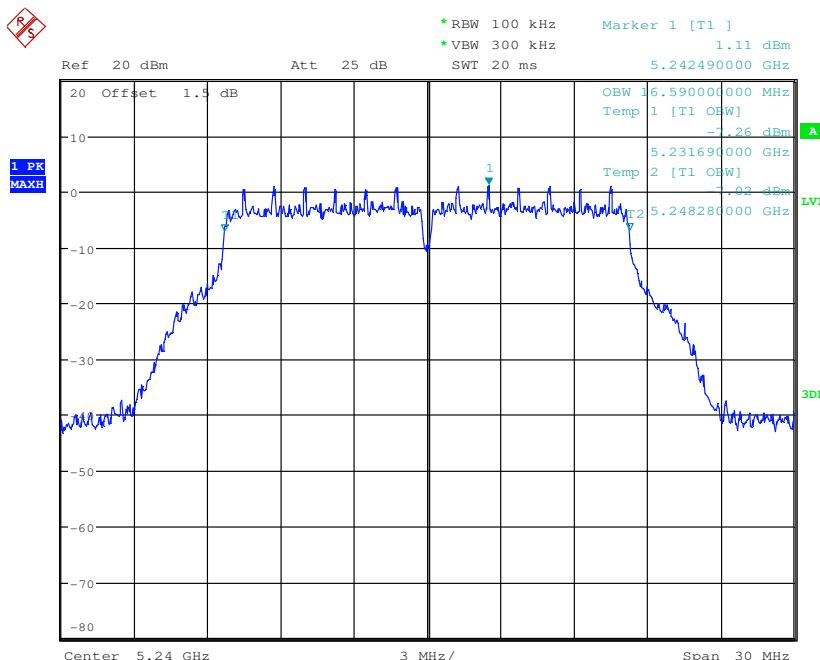
*This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. 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. 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."

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

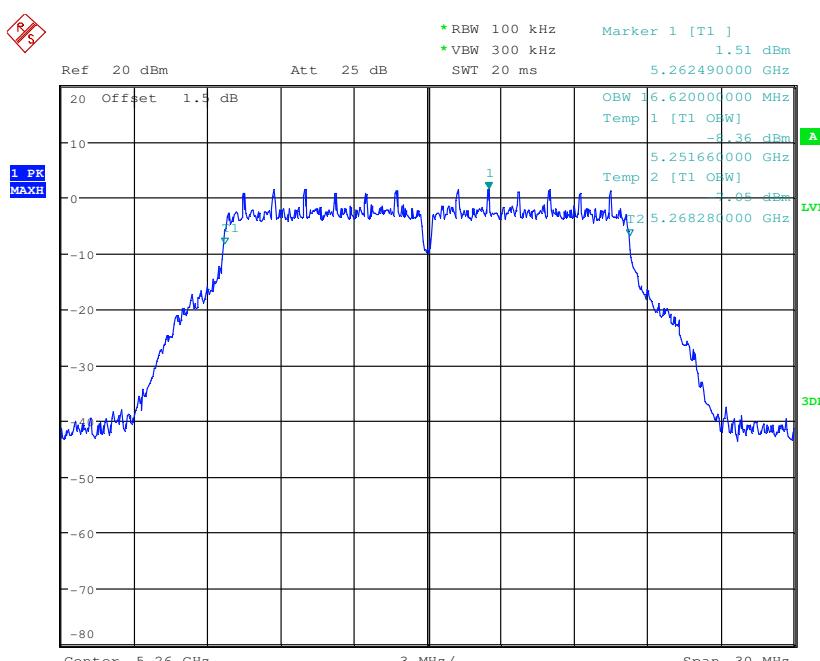


Report No.: SZEM160200065905
Page: 101 of 306

Test mode:	802.11a	Frequency(MHz):	5240
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5260
------------	---------	-----------------	------

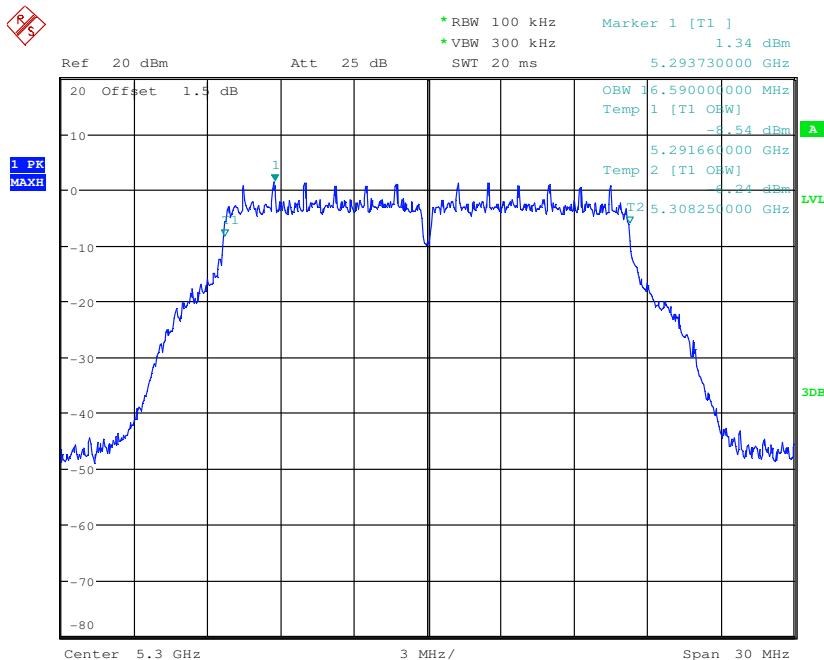


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

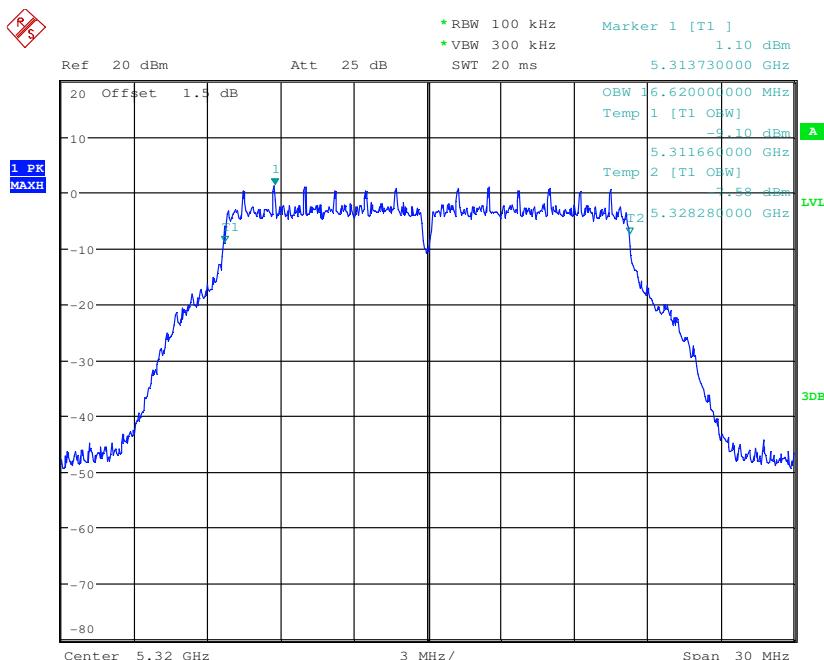


Report No.: SZEM160200065905
Page: 102 of 306

Test mode:	802.11a	Frequency(MHz):	5300
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5320
------------	---------	-----------------	------

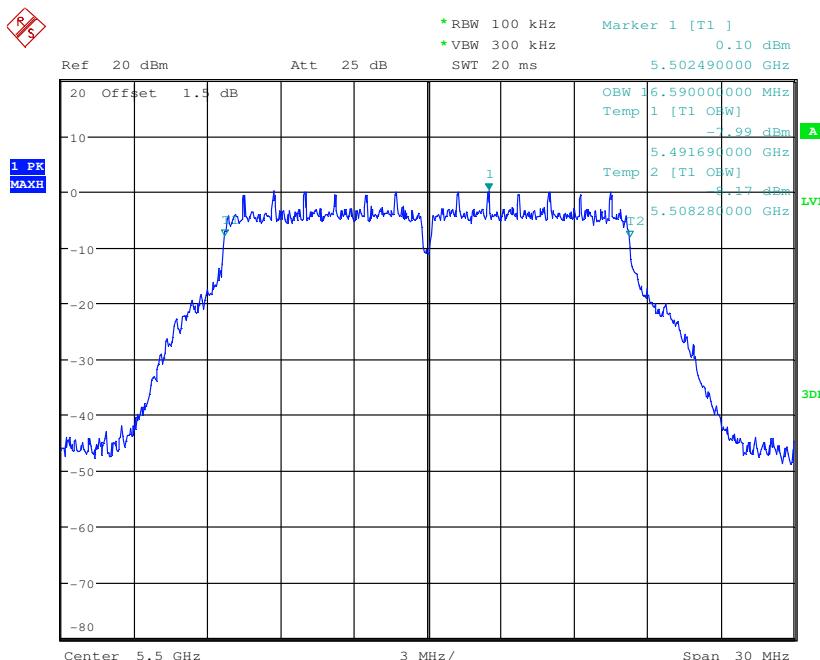


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

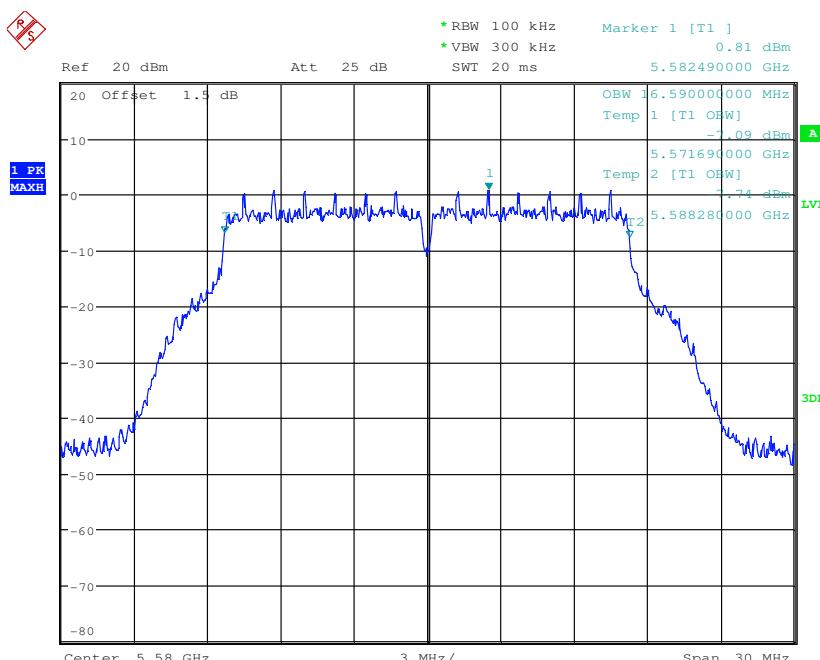


Report No.: SZEM160200065905
Page: 103 of 306

Test mode:	802.11a	Frequency(MHz):	5500
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5580
------------	---------	-----------------	------

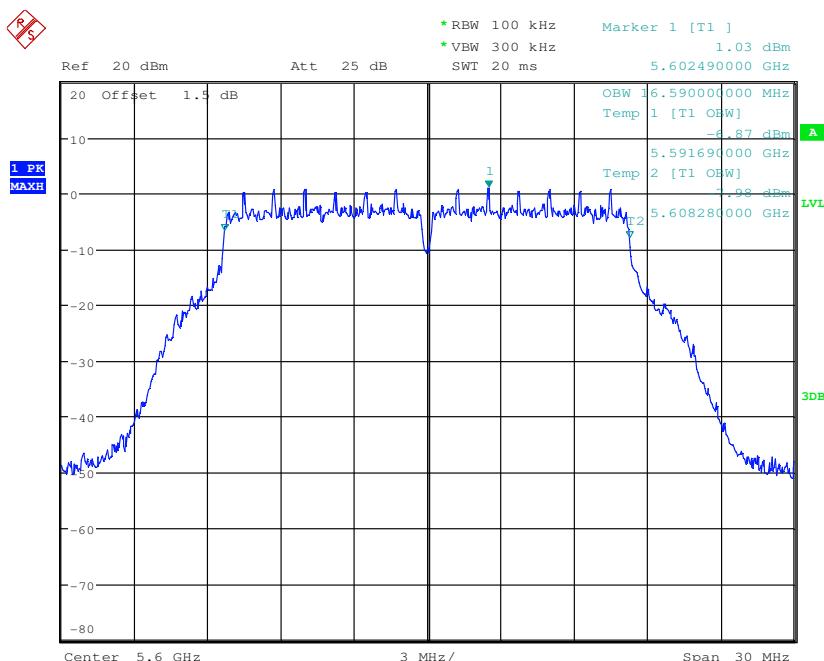


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

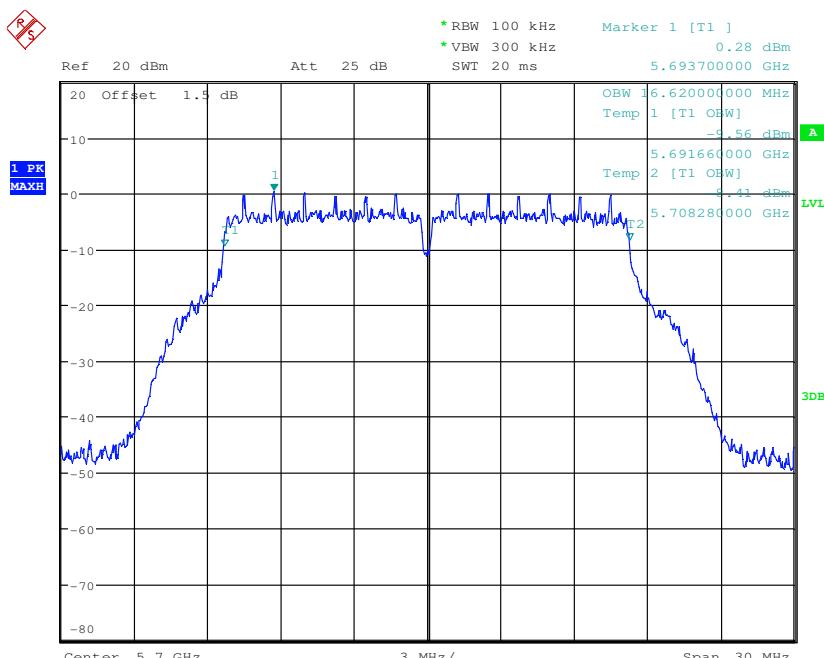


Report No.: SZEM160200065905
Page: 104 of 306

Test mode:	802.11a	Frequency(MHz):	5600
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5700
------------	---------	-----------------	------



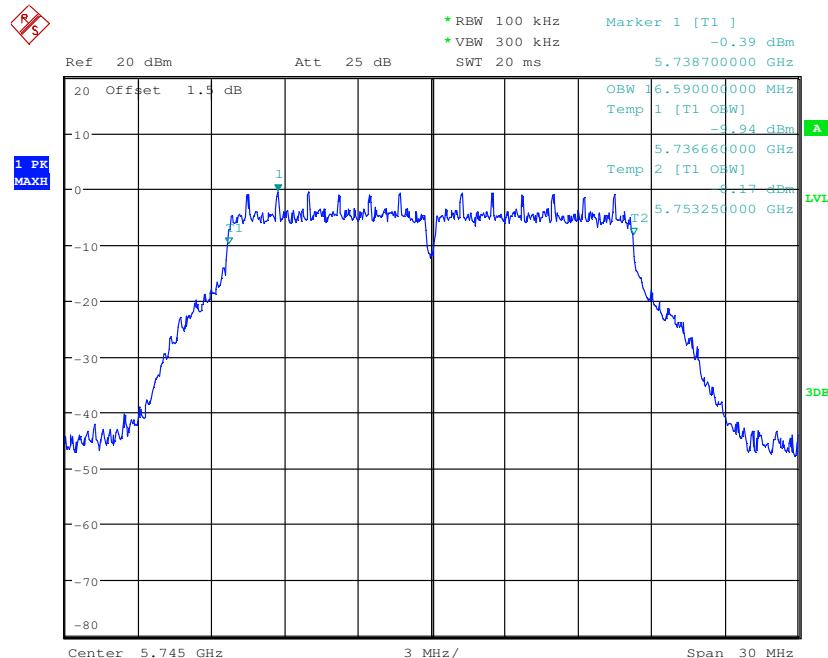
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

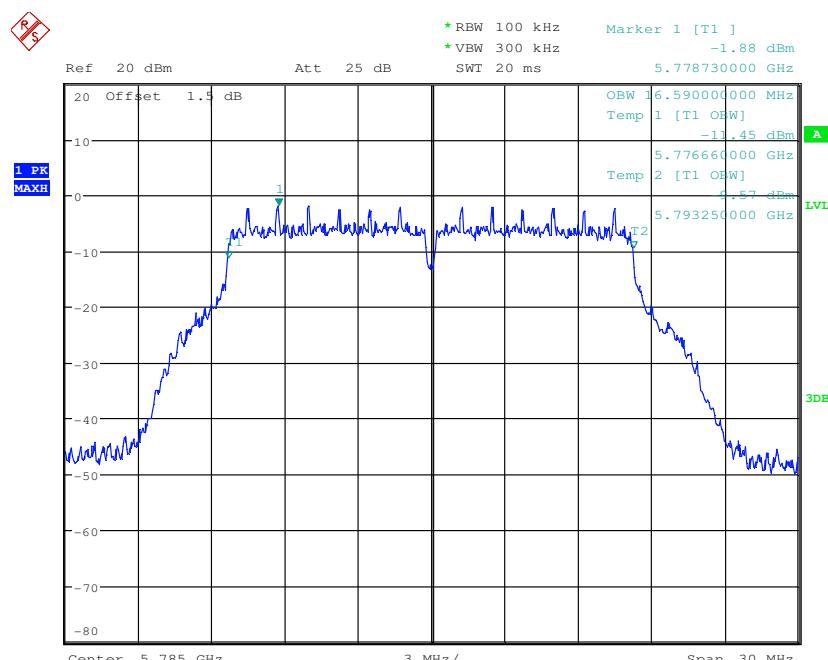


Report No.: SZEM160200065905
Page: 105 of 306

Test mode:	802.11a	Frequency(MHz):	5745
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5785
------------	---------	-----------------	------



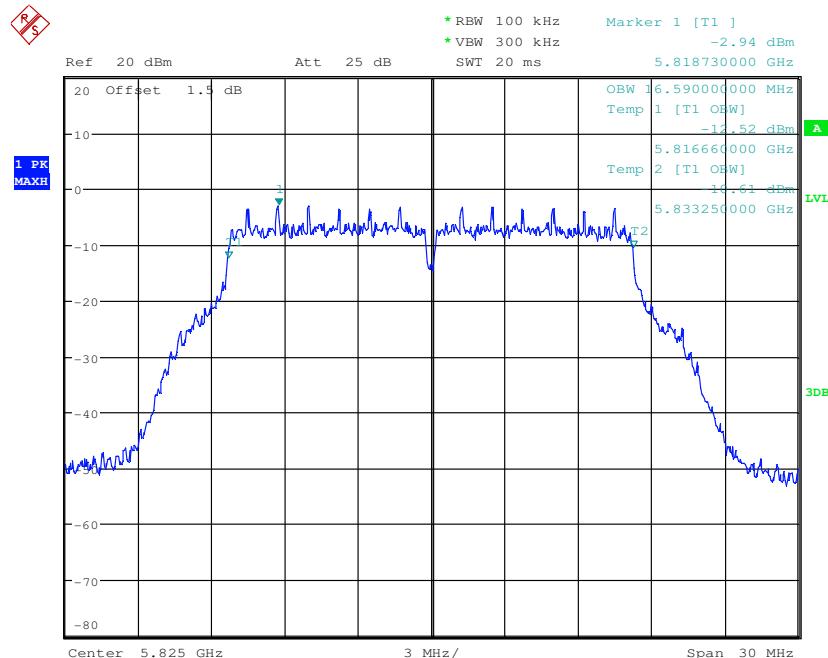
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

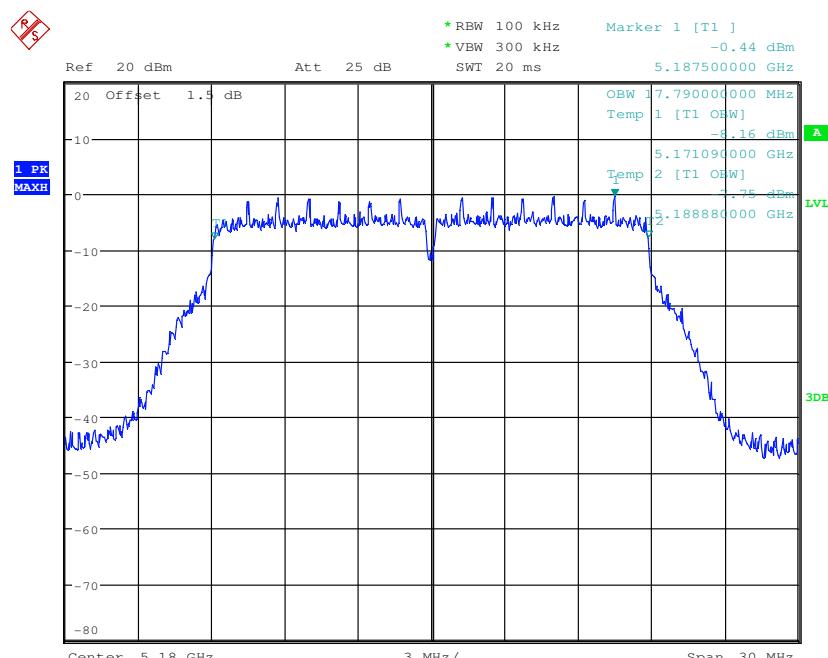


Report No.: SZEM160200065905
Page: 106 of 306

Test mode:	802.11a	Frequency(MHz):	5825
------------	---------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5180
------------	------------	-----------------	------

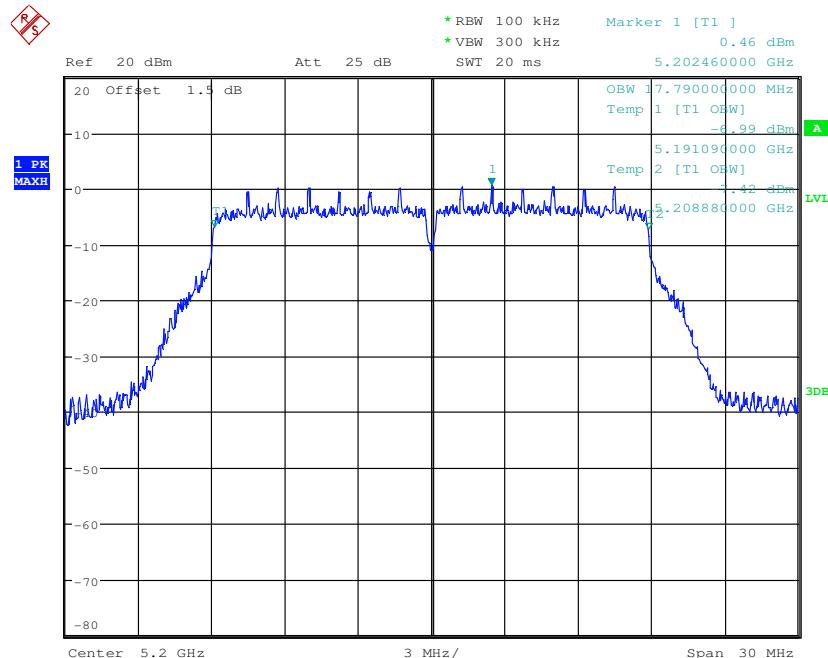


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

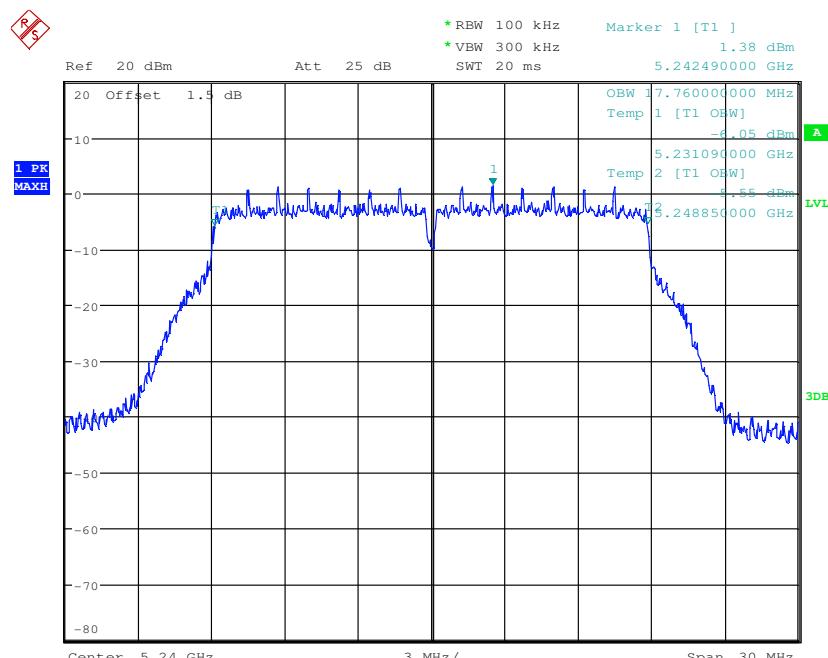


Report No.: SZEM160200065905
Page: 107 of 306

Test mode:	802.11 n20	Frequency(MHz):	5200
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5240
------------	------------	-----------------	------

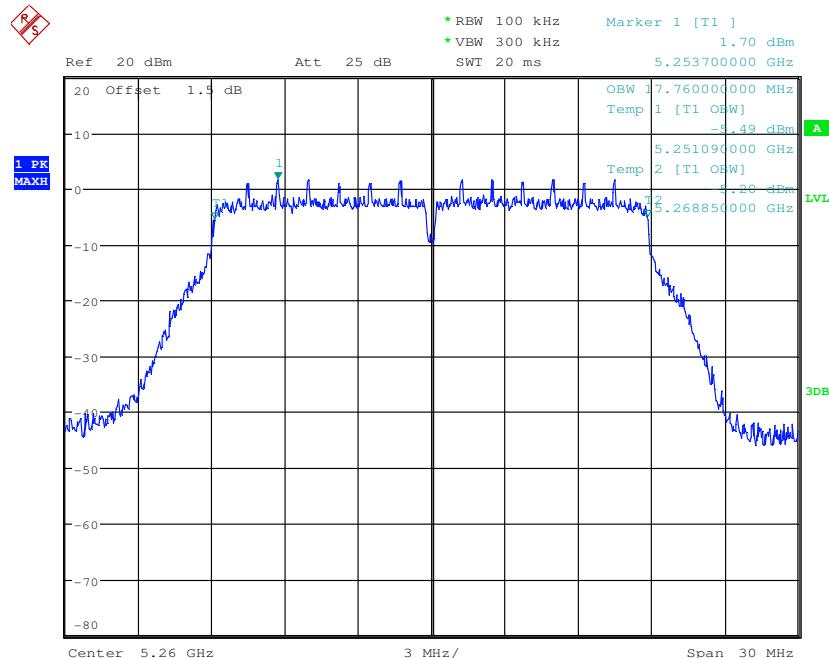


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

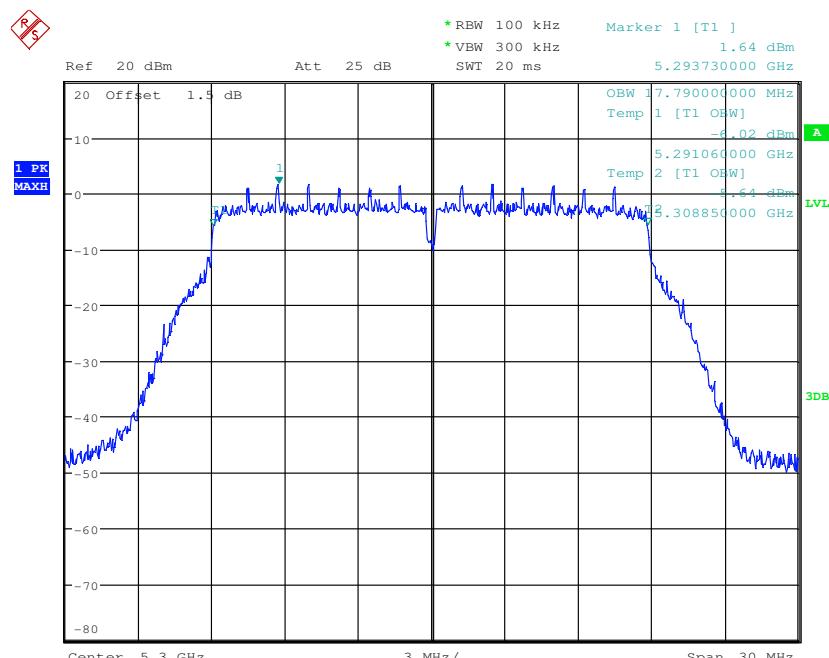


Report No.: SZEM160200065905
 Page: 108 of 306

Test mode:	802.11 n20	Frequency(MHz):	5260
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5300
------------	------------	-----------------	------

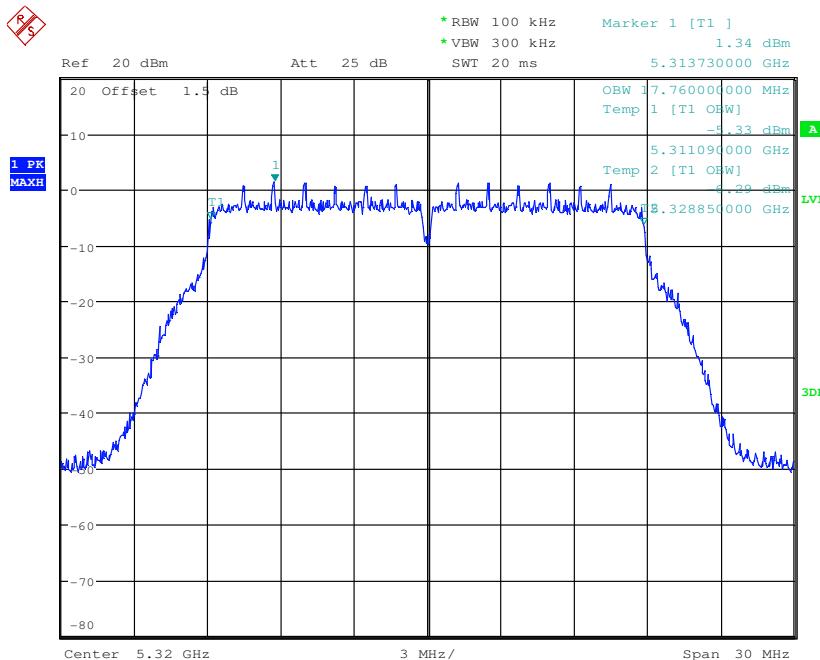


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

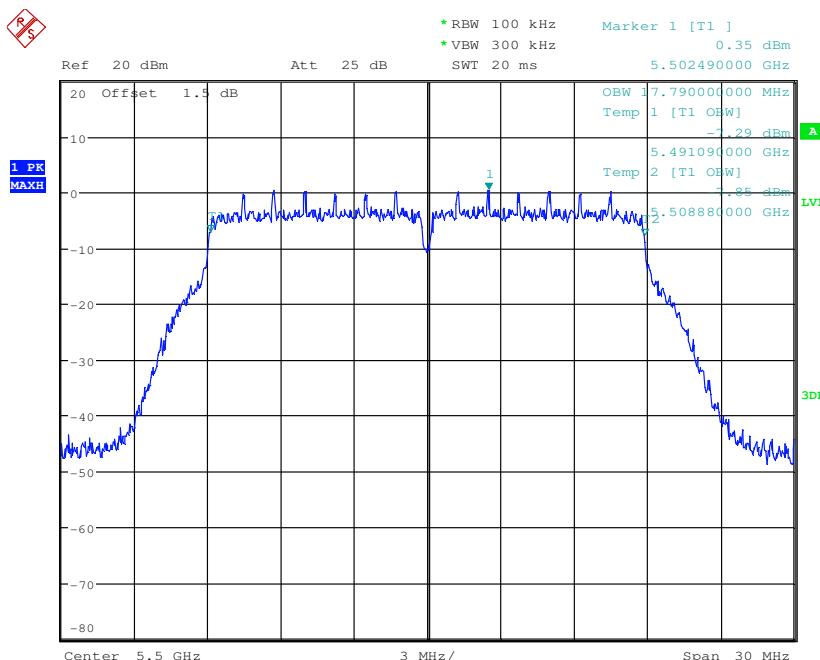


Report No.: SZEM160200065905
Page: 109 of 306

Test mode:	802.11 n20	Frequency(MHz):	5320
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5500
------------	------------	-----------------	------

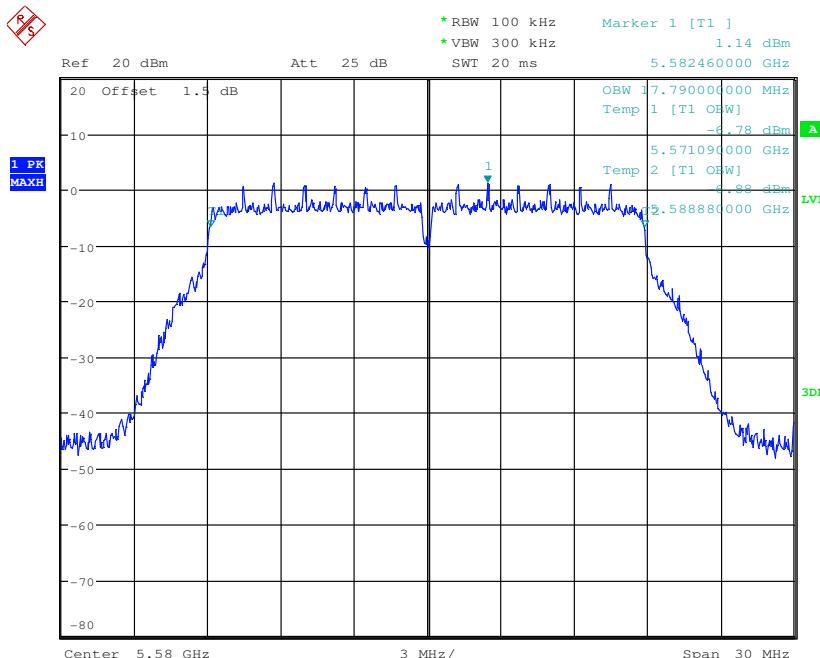


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

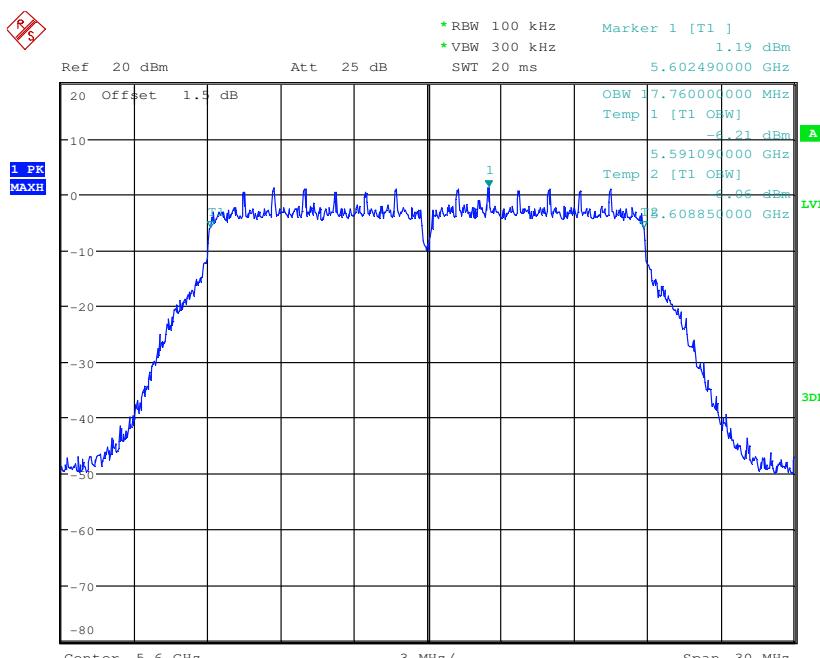


Report No.: SZEM160200065905
 Page: 110 of 306

Test mode:	802.11 n20	Frequency(MHz):	5580
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5600
------------	------------	-----------------	------

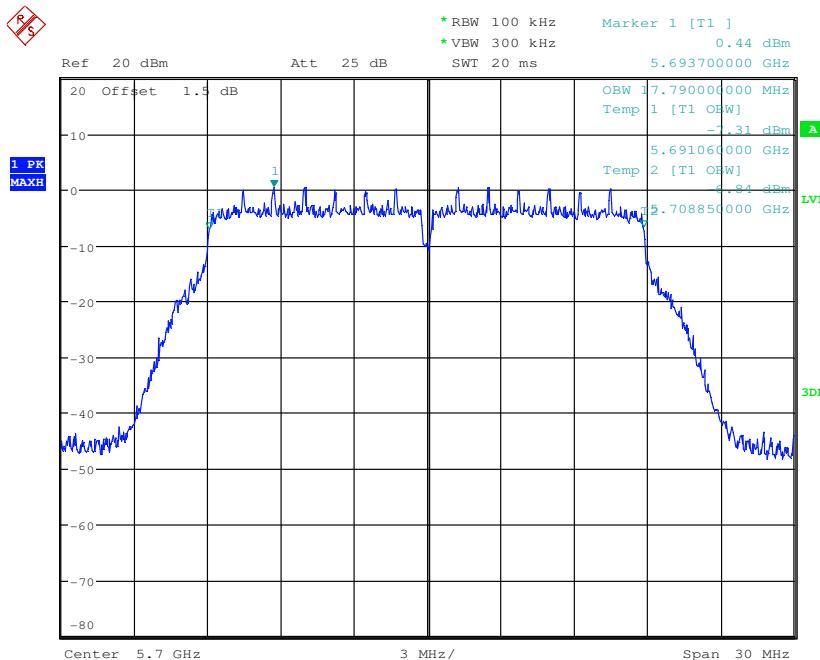


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

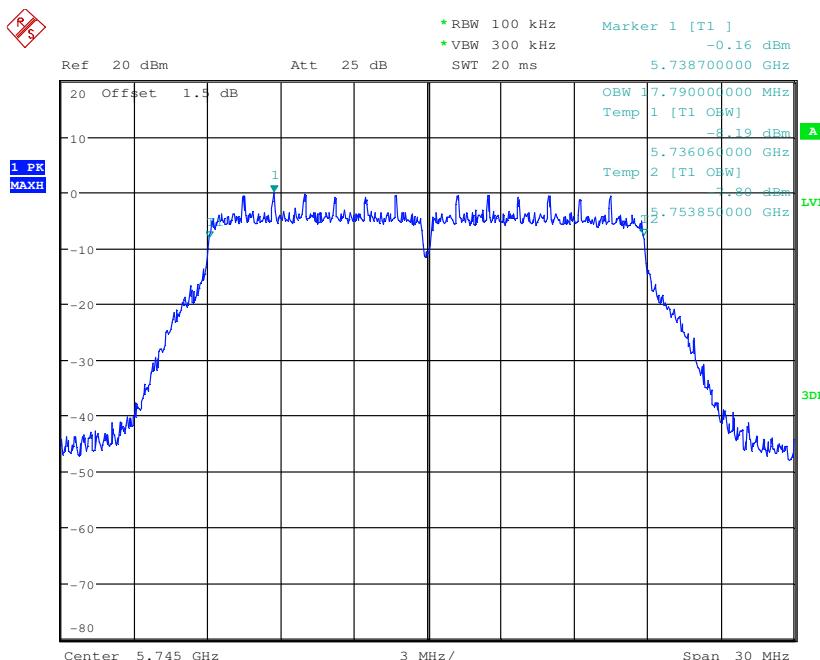


Report No.: SZEM160200065905
Page: 111 of 306

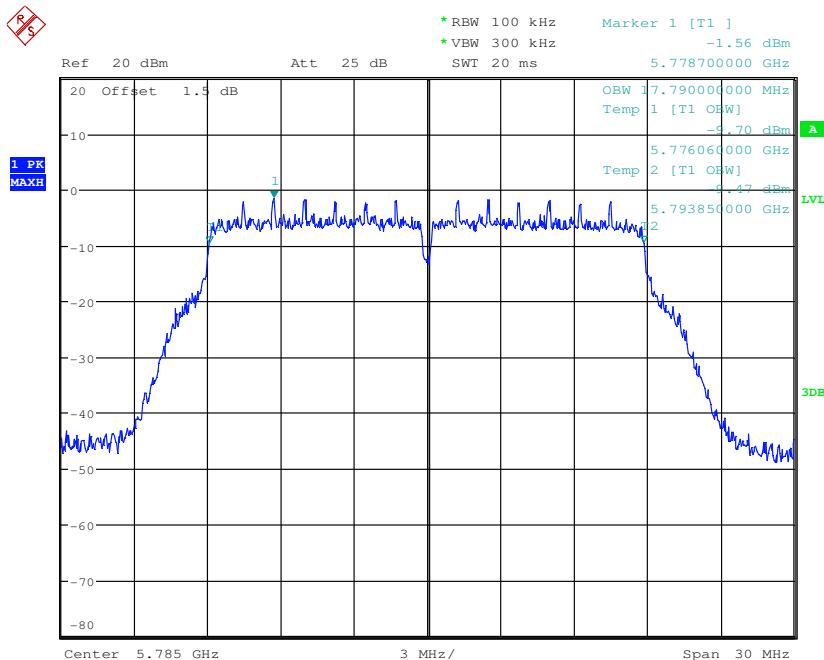
Test mode:	802.11 n20	Frequency(MHz):	5700
------------	------------	-----------------	------



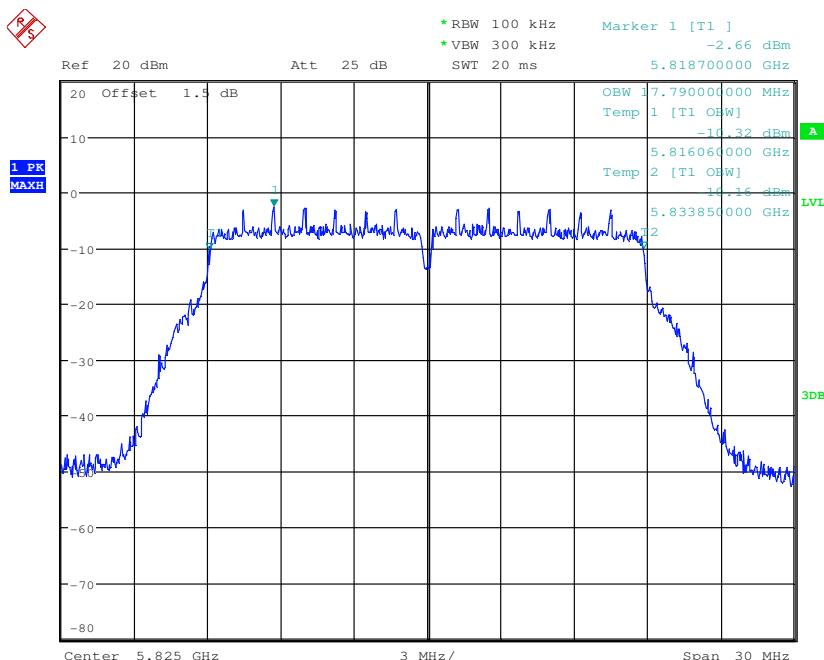
Test mode:	802.11 n20	Frequency(MHz):	5745
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5785
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5825
------------	------------	-----------------	------

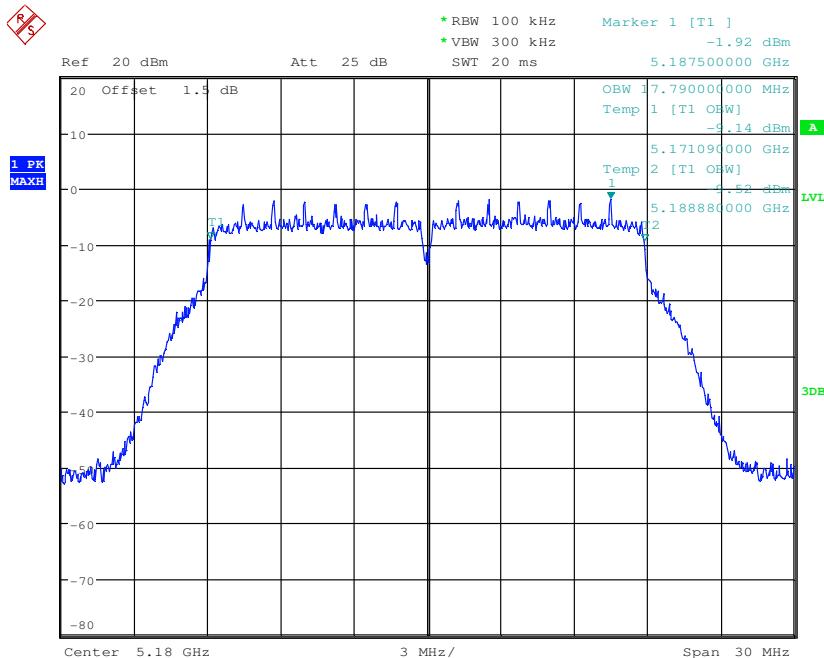


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

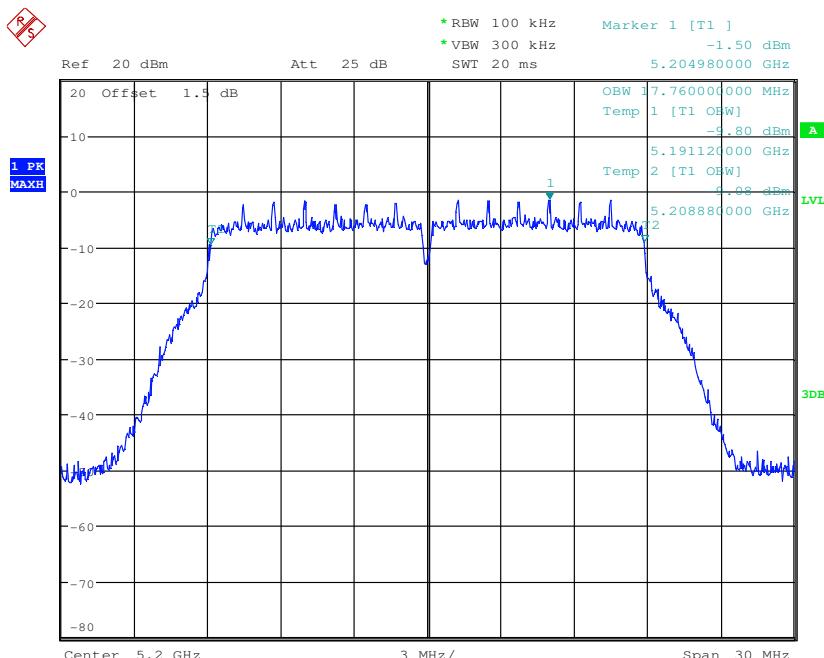


Report No.: SZEM160200065905
 Page: 113 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5180
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5200
------------	-------------	-----------------	------

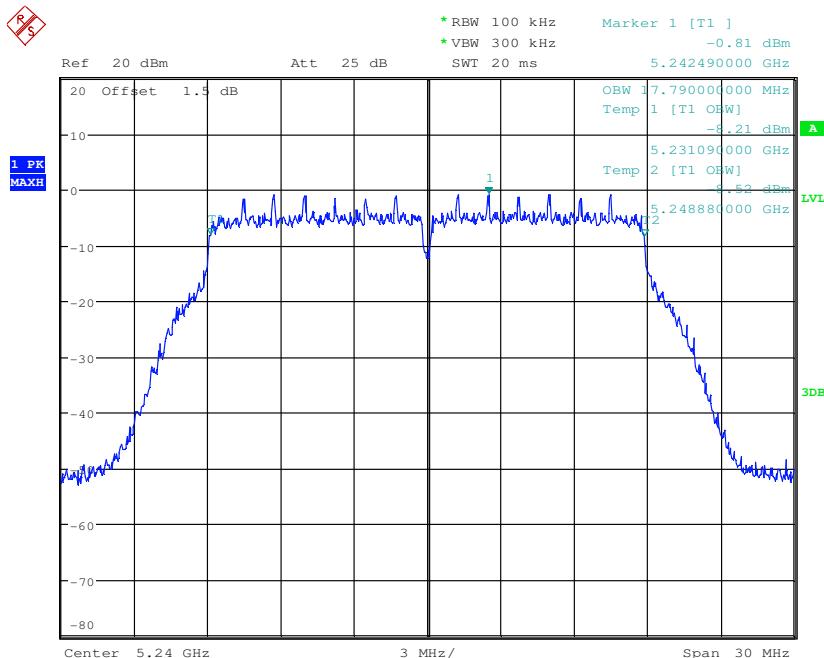


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

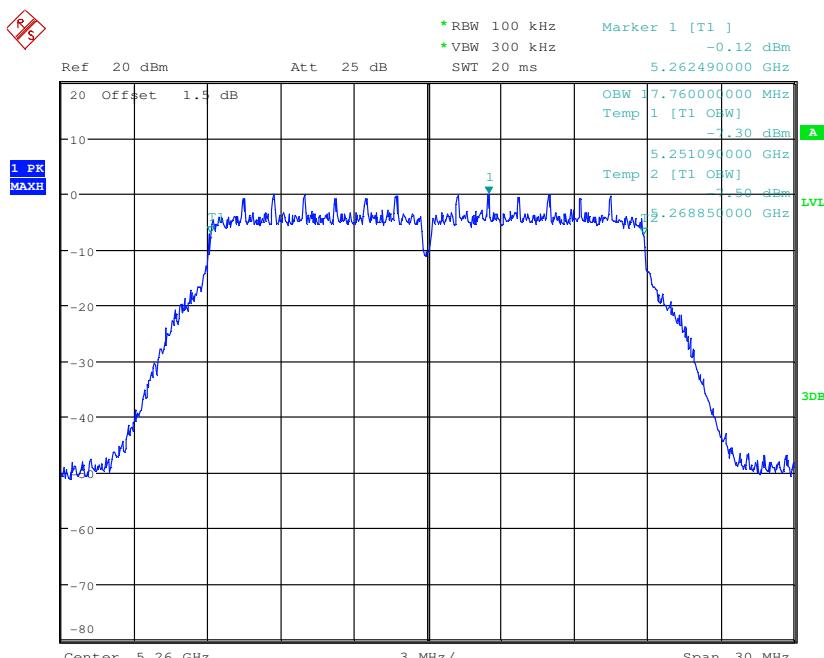


Report No.: SZEM160200065905
Page: 114 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5240
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5260
------------	-------------	-----------------	------



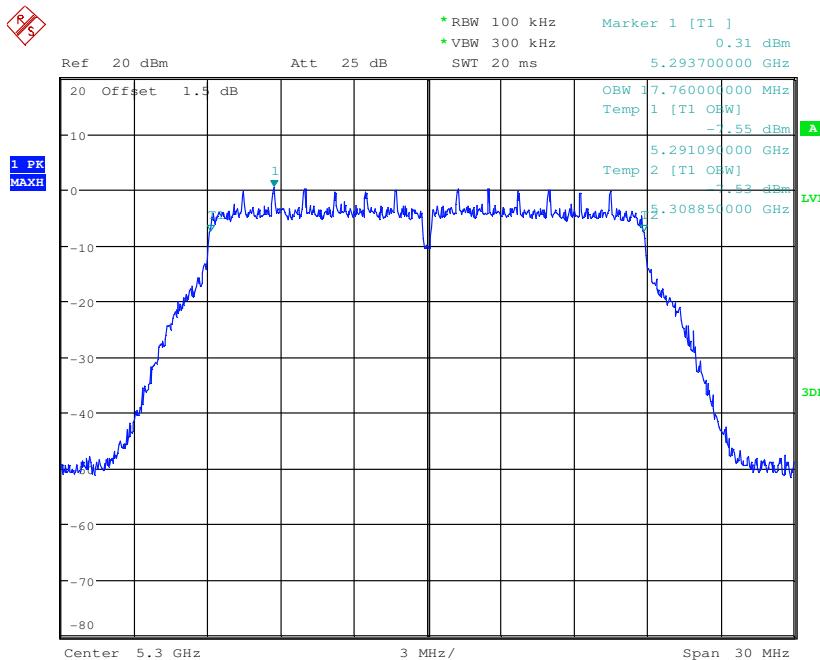
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

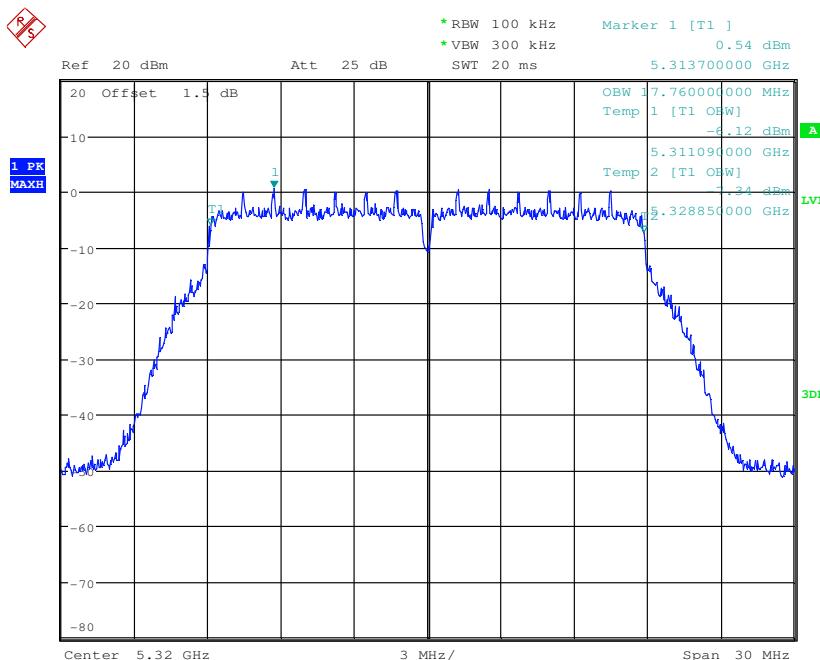


Report No.: SZEM160200065905
 Page: 115 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5300
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5320
------------	-------------	-----------------	------

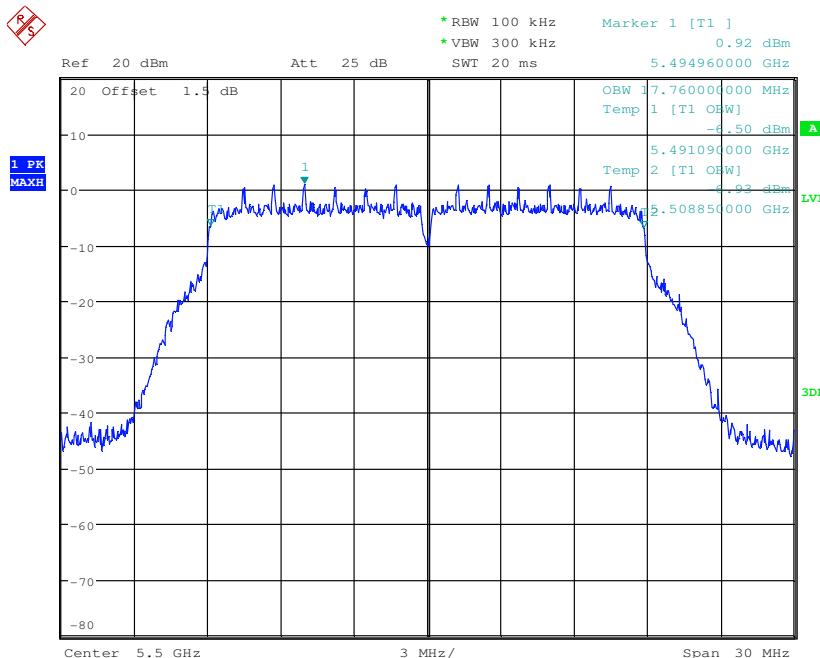


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

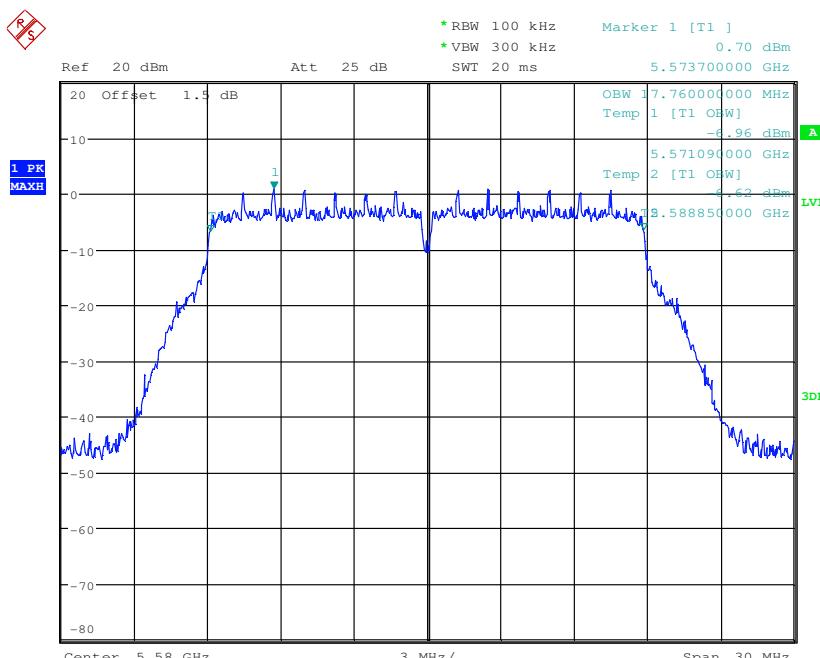


Report No.: SZEM160200065905
 Page: 116 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5500
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5580
------------	-------------	-----------------	------



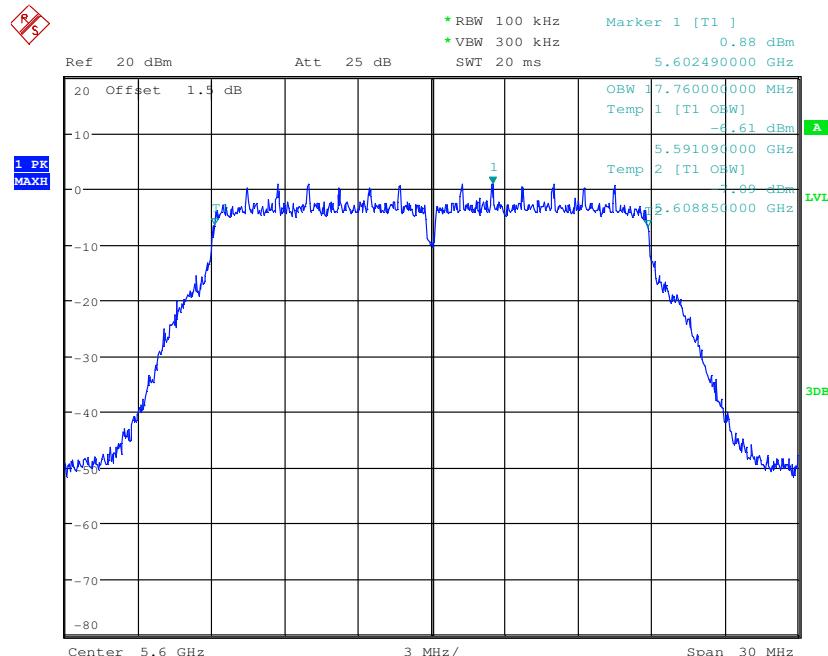
*This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. 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. 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."

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

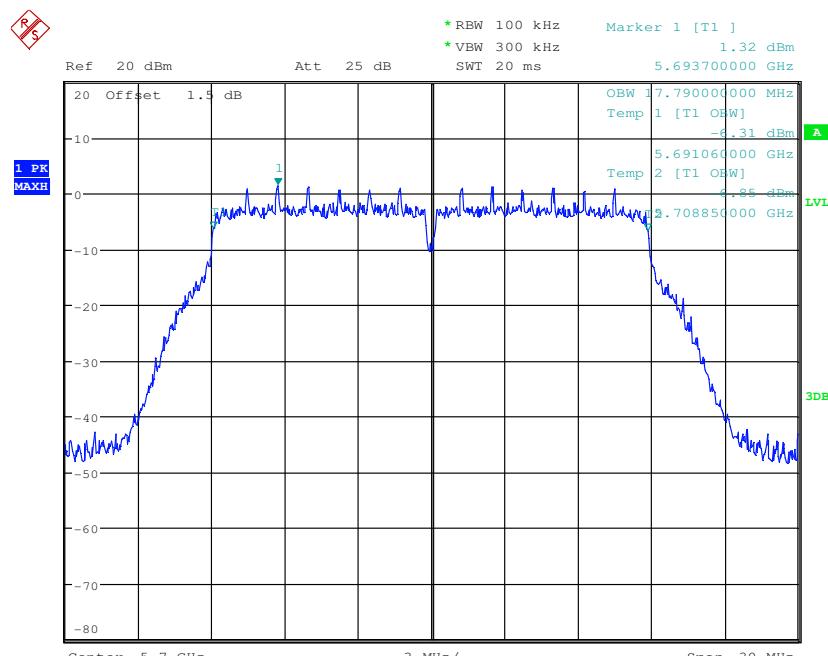


Report No.: SZEM160200065905
Page: 117 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5600
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5700
------------	-------------	-----------------	------



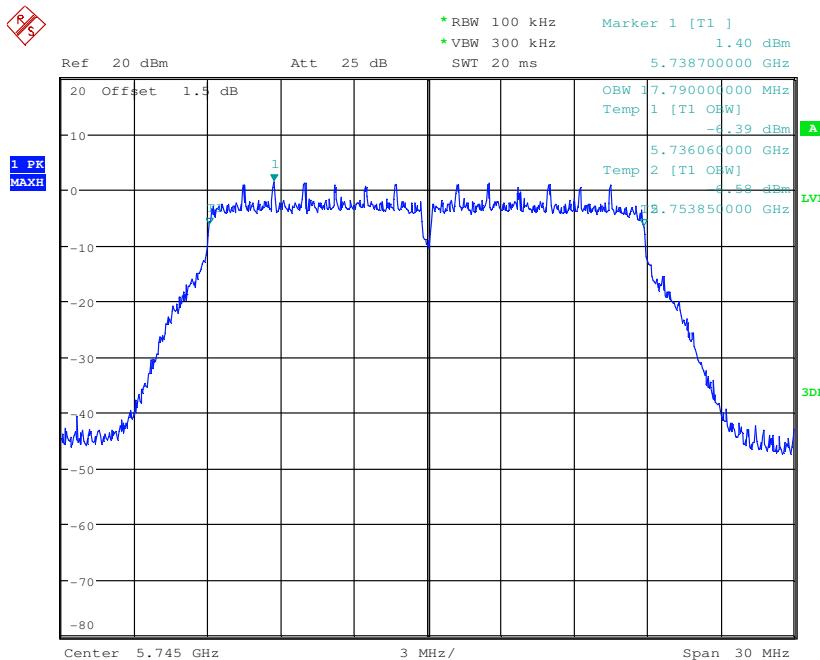
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

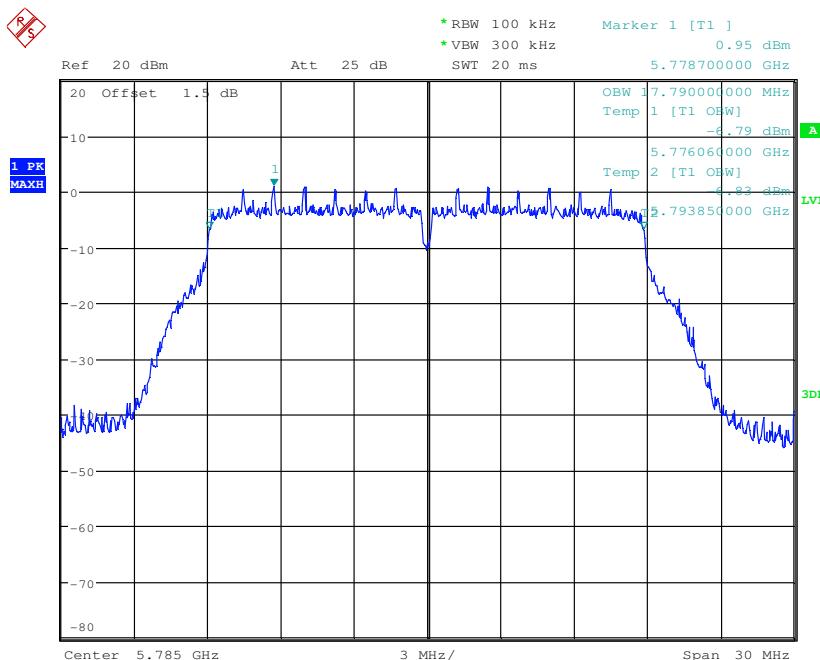


Report No.: SZEM160200065905
 Page: 118 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5745
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5785
------------	-------------	-----------------	------

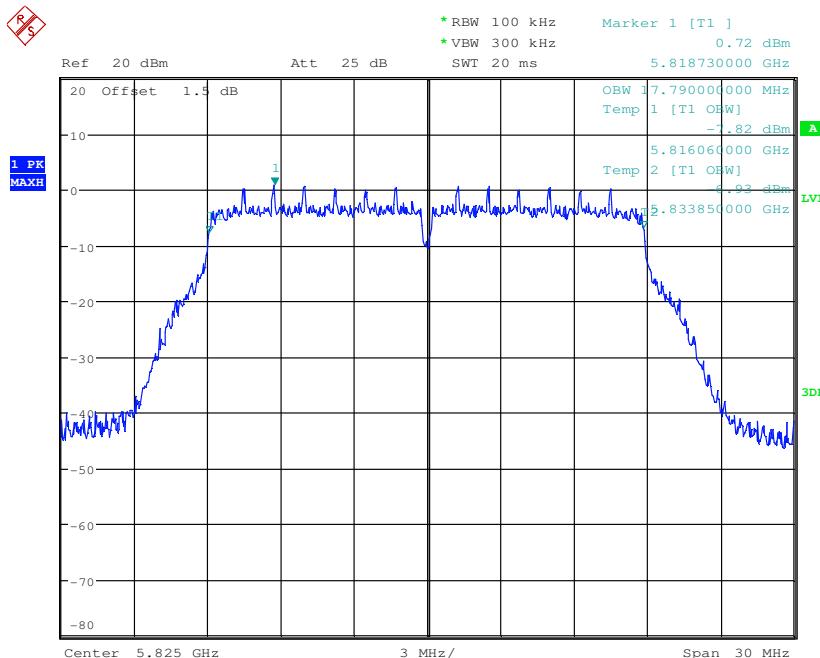


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

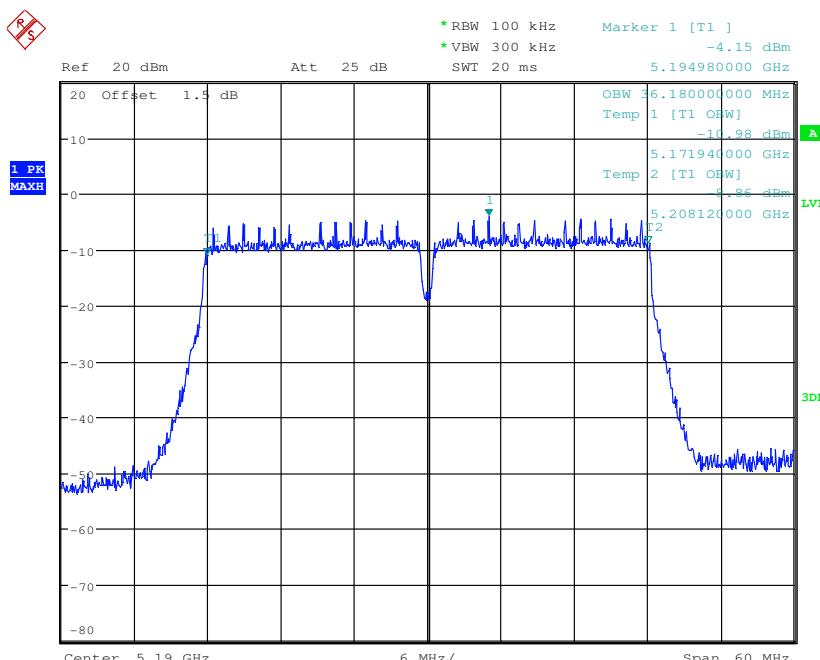


Report No.: SZEM160200065905
Page: 119 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5825
------------	-------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5190
------------	------------	-----------------	------

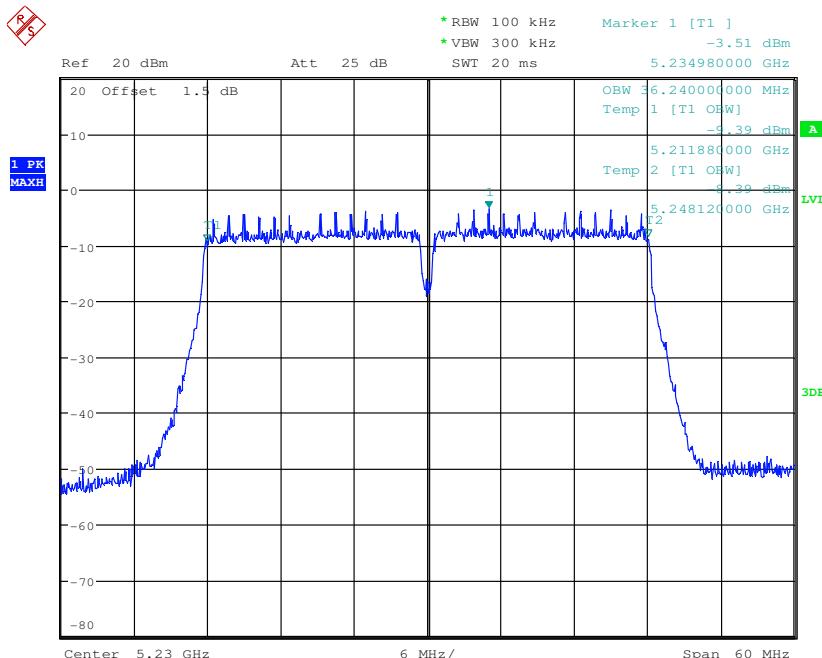


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

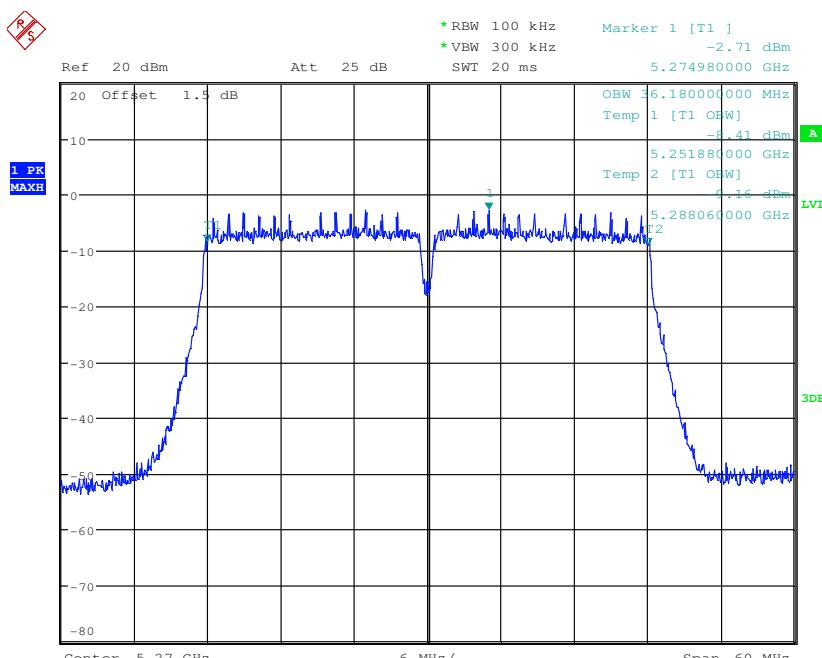


Report No.: SZEM160200065905
Page: 120 of 306

Test mode:	802.11 n40	Frequency(MHz):	5230
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5270
------------	------------	-----------------	------



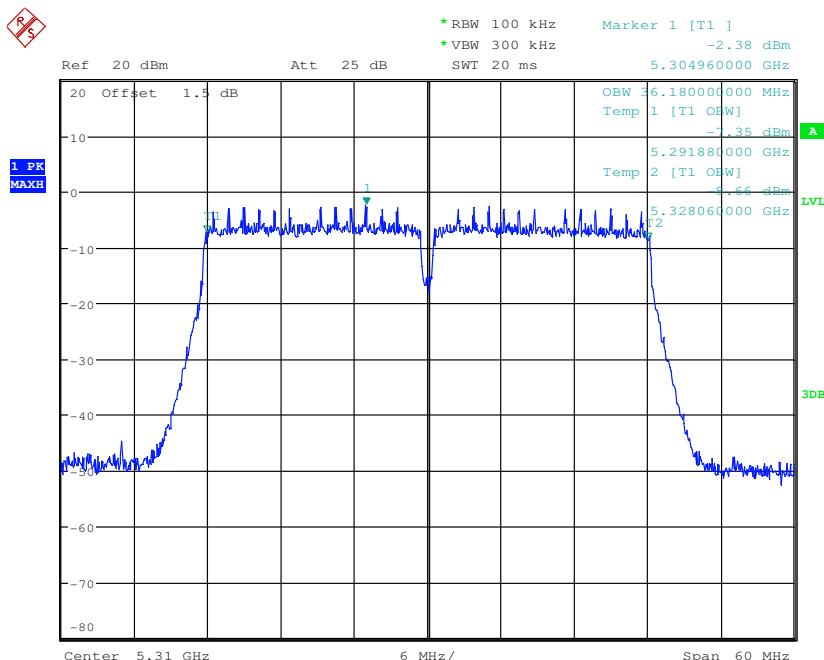
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

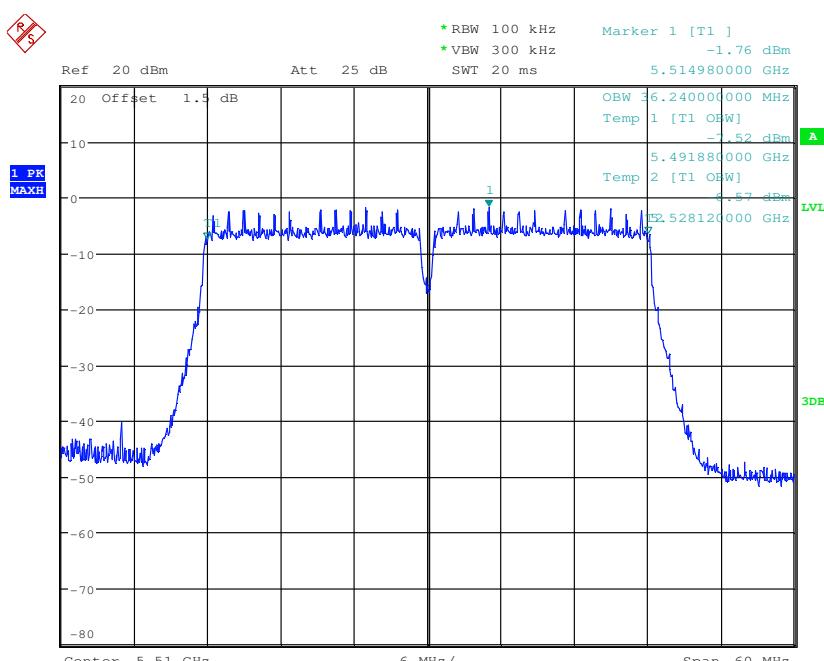


Report No.: SZEM160200065905
Page: 121 of 306

Test mode:	802.11 n40	Frequency(MHz):	5310
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5510
------------	------------	-----------------	------

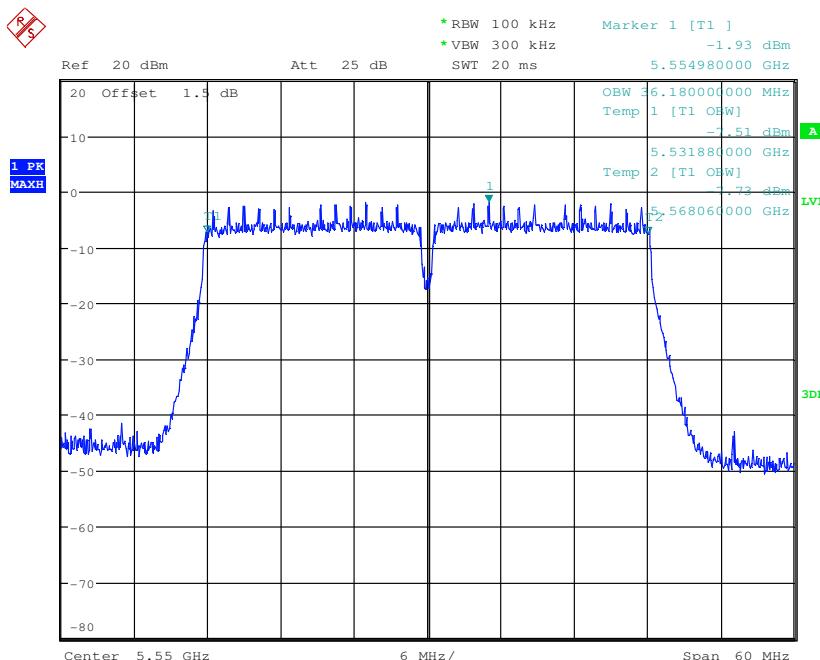


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

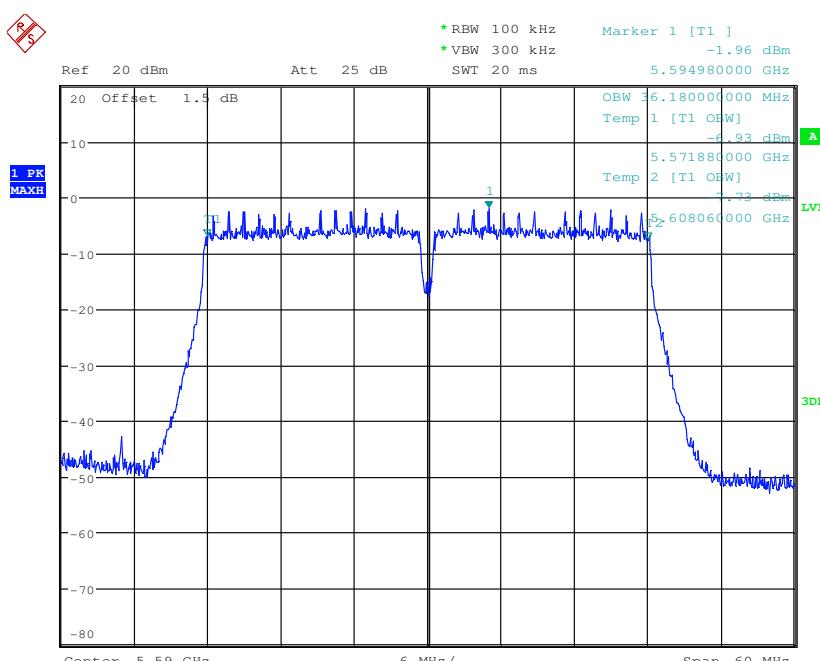


Report No.: SZEM160200065905
Page: 122 of 306

Test mode:	802.11 n40	Frequency(MHz):	5550
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5590
------------	------------	-----------------	------

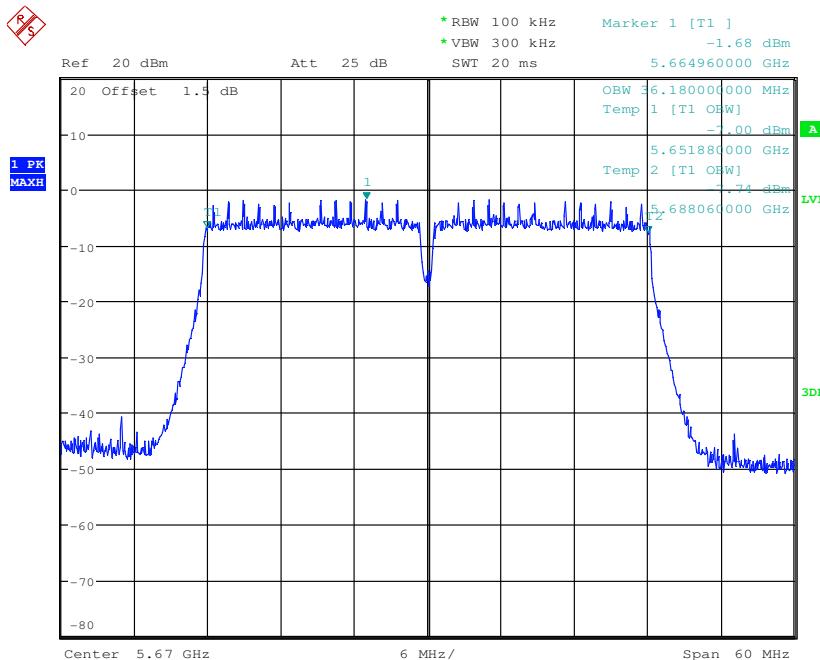


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

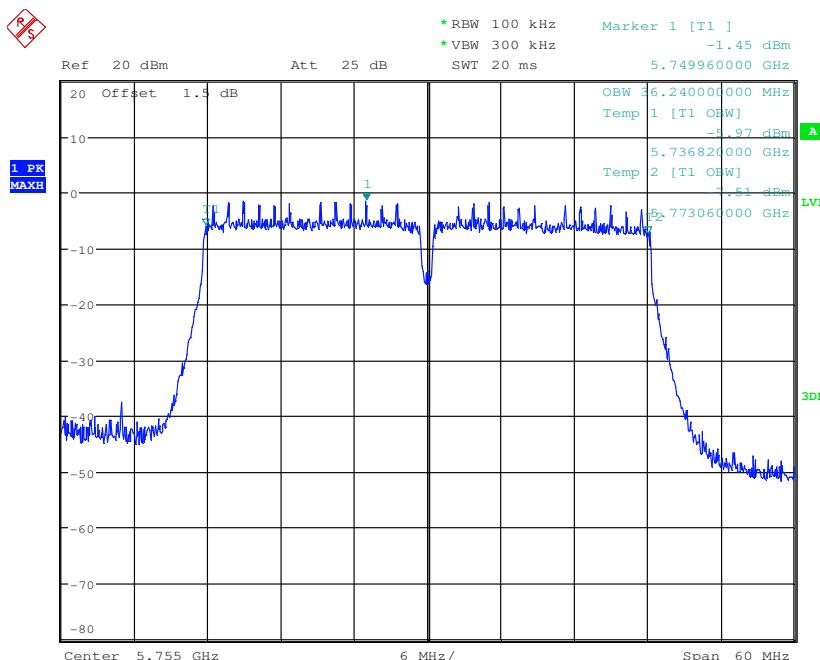


Report No.: SZEM160200065905
Page: 123 of 306

Test mode:	802.11 n40	Frequency(MHz):	5670
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5755
------------	------------	-----------------	------

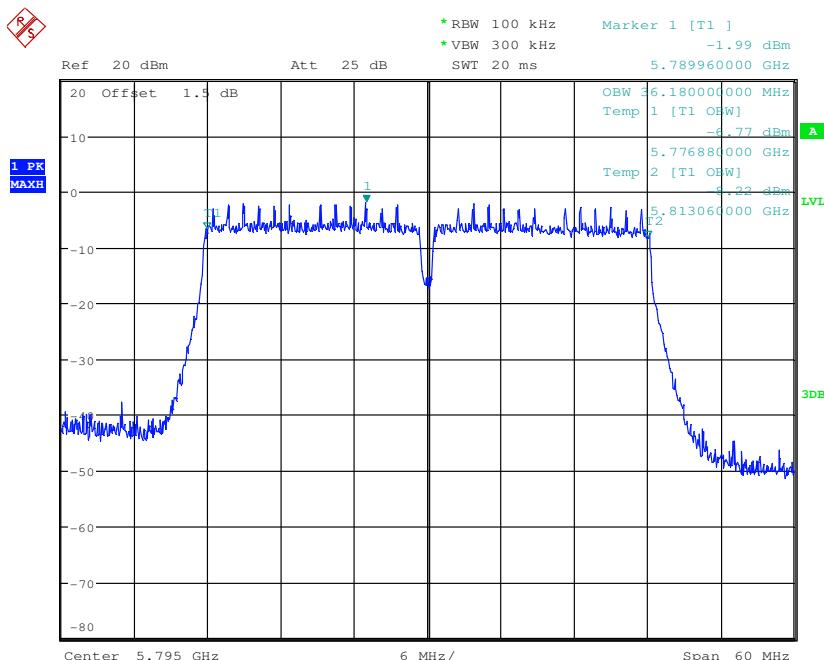


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

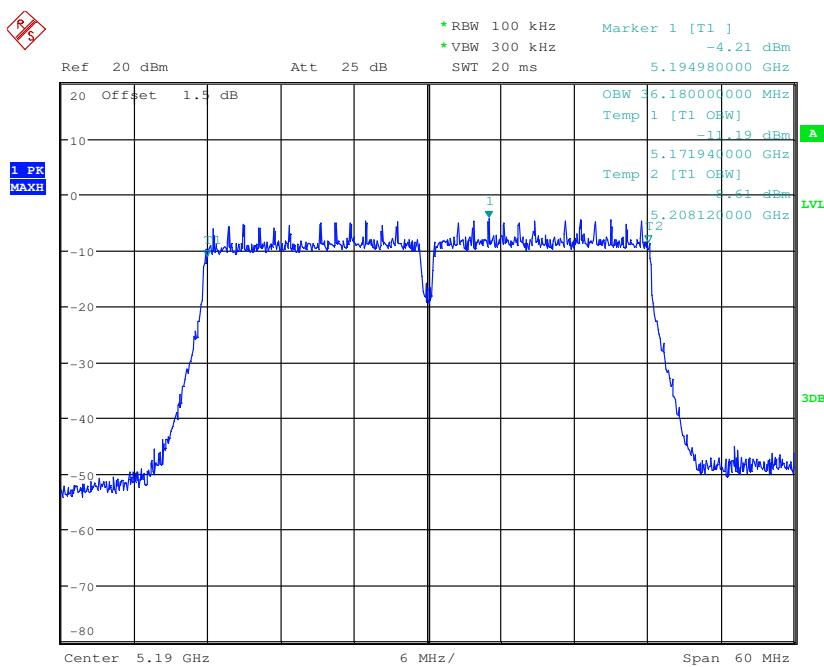


Report No.: SZEM160200065905
Page: 124 of 306

Test mode:	802.11 n40	Frequency(MHz):	5795
------------	------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5190
------------	-------------	-----------------	------



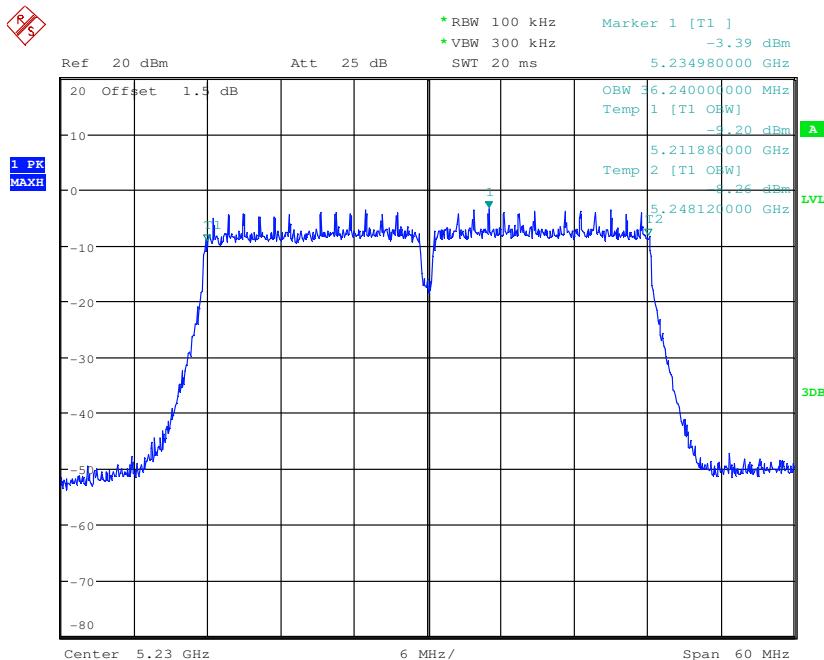
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

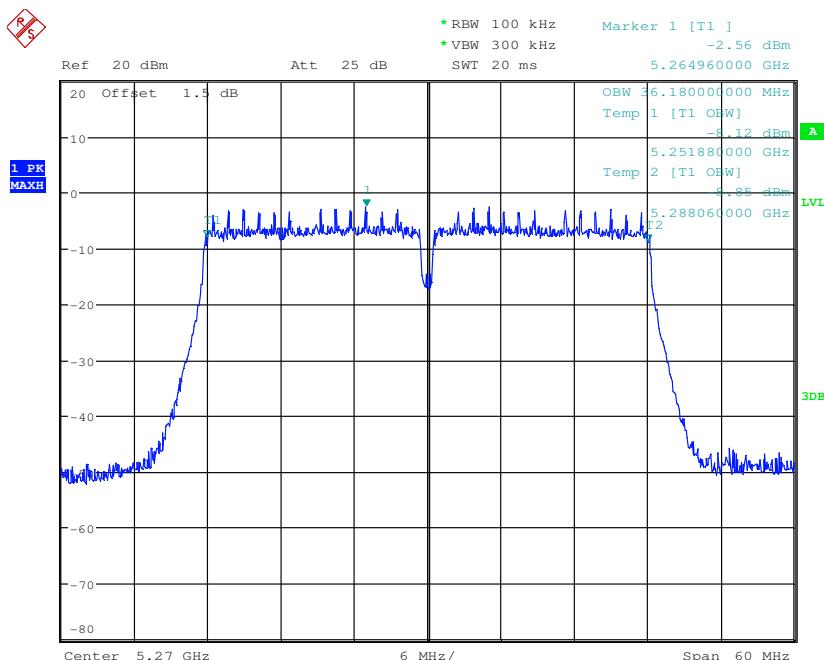


Report No.: SZEM160200065905
Page: 125 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5230
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5270
------------	-------------	-----------------	------

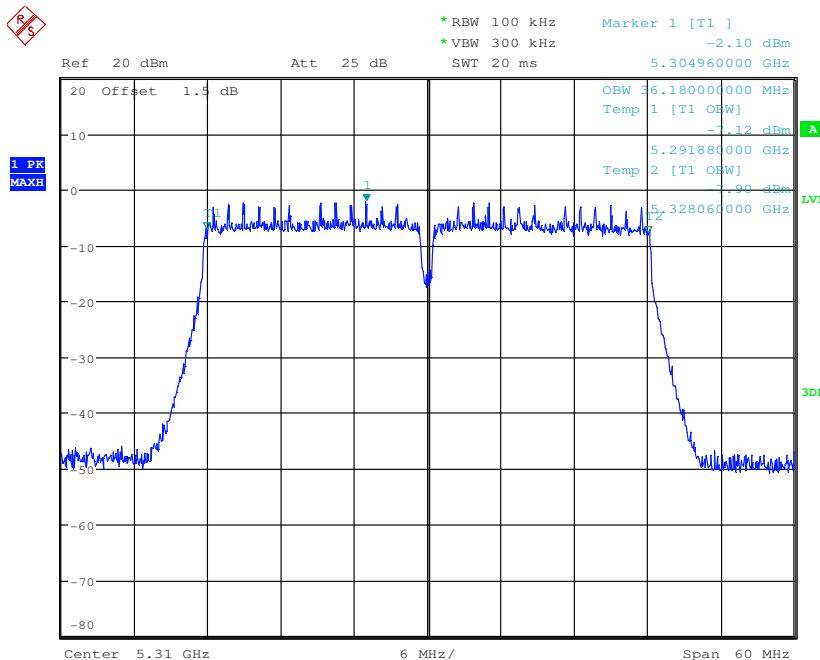


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

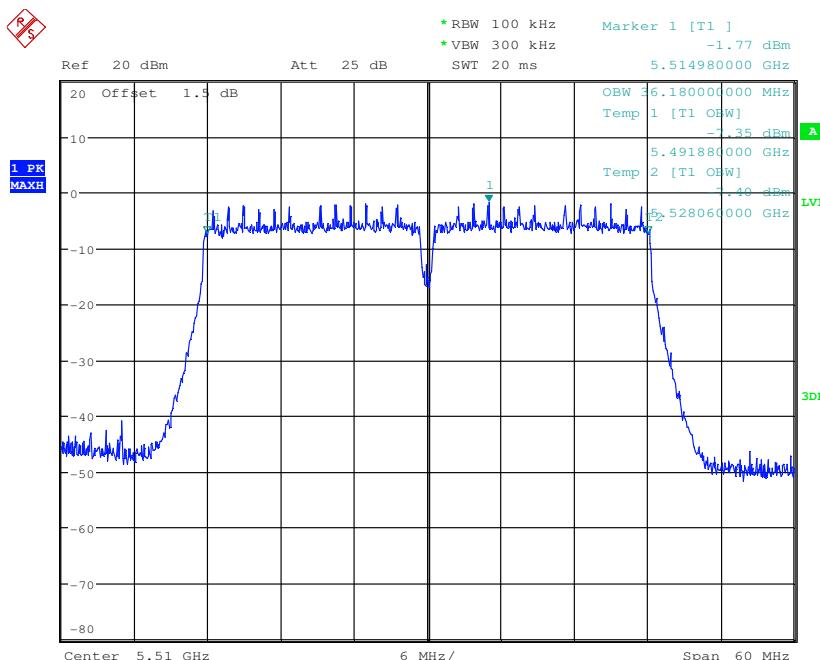


Report No.: SZEM160200065905
Page: 126 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5310
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5510
------------	-------------	-----------------	------

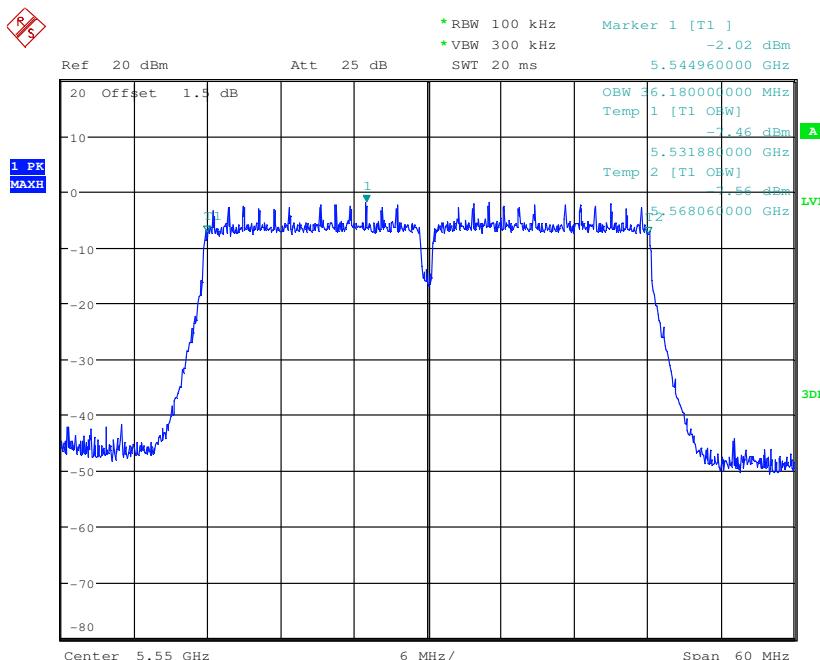


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

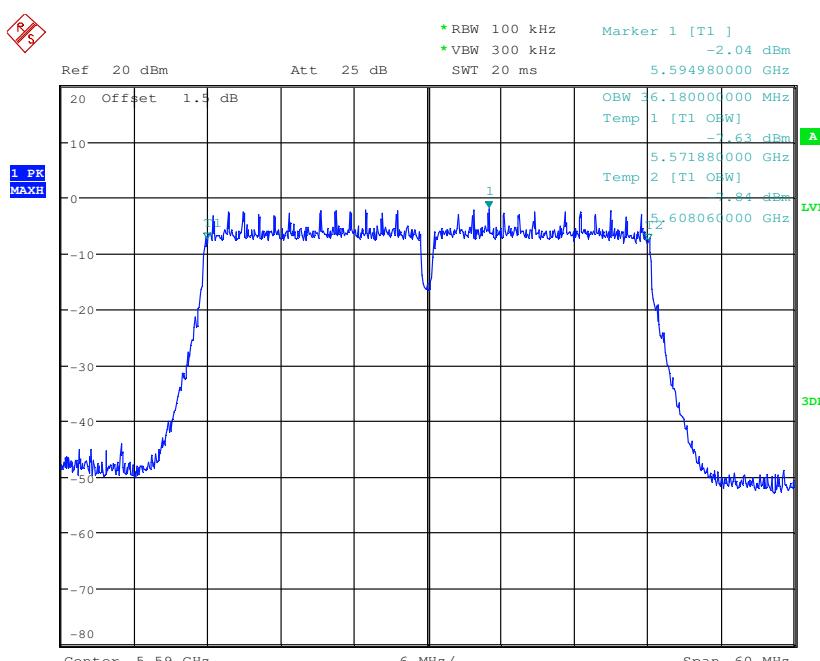


Report No.: SZEM160200065905
Page: 127 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5550
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5590
------------	-------------	-----------------	------

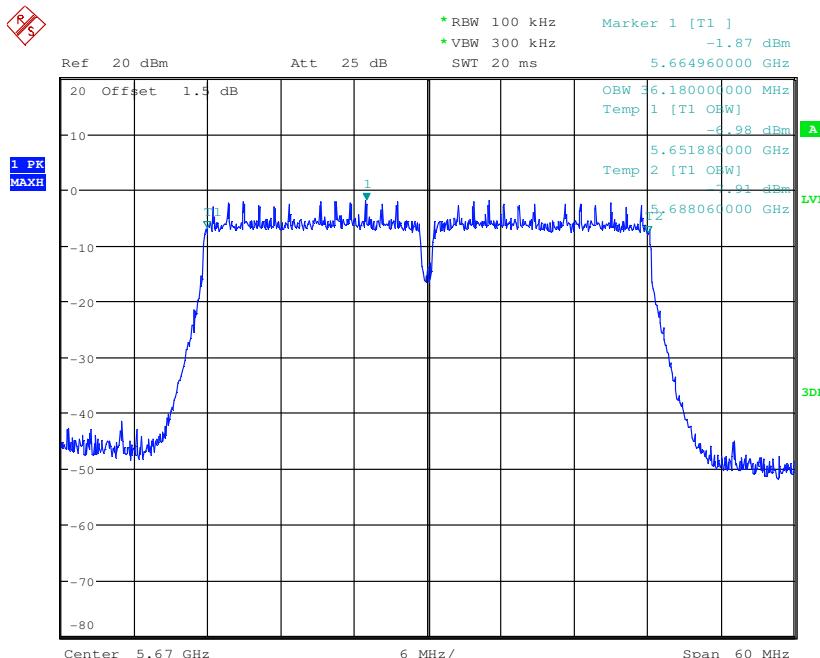


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

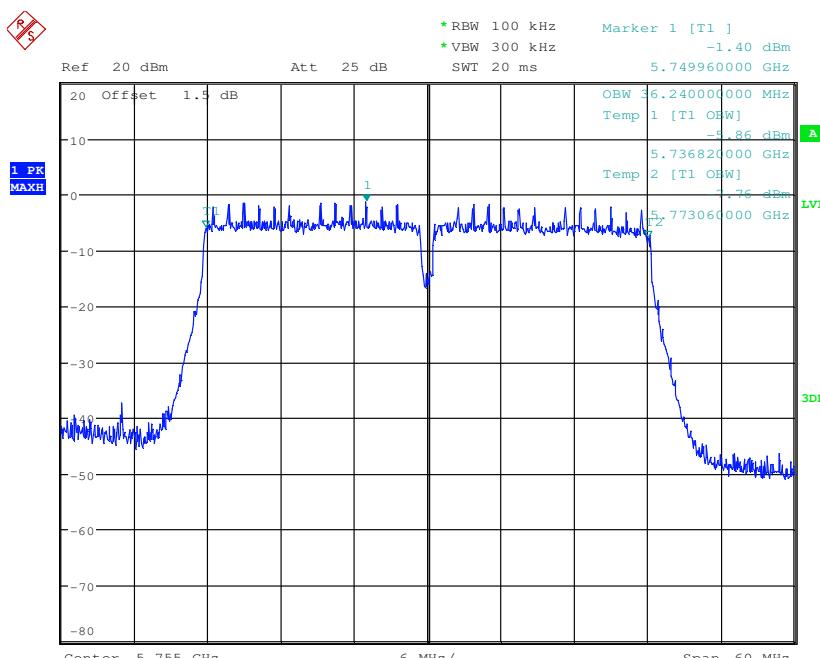


Report No.: SZEM160200065905
Page: 128 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5670
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5755
------------	-------------	-----------------	------

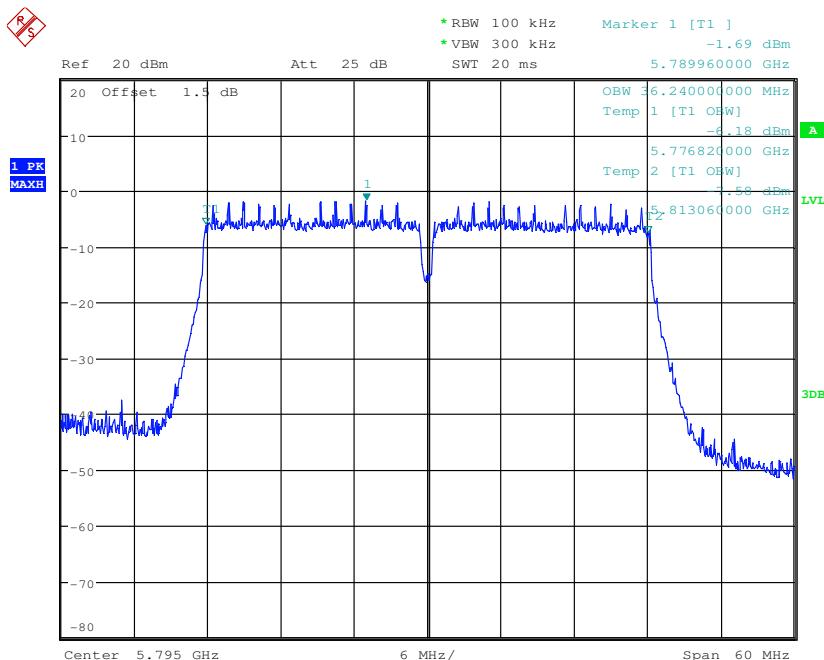


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

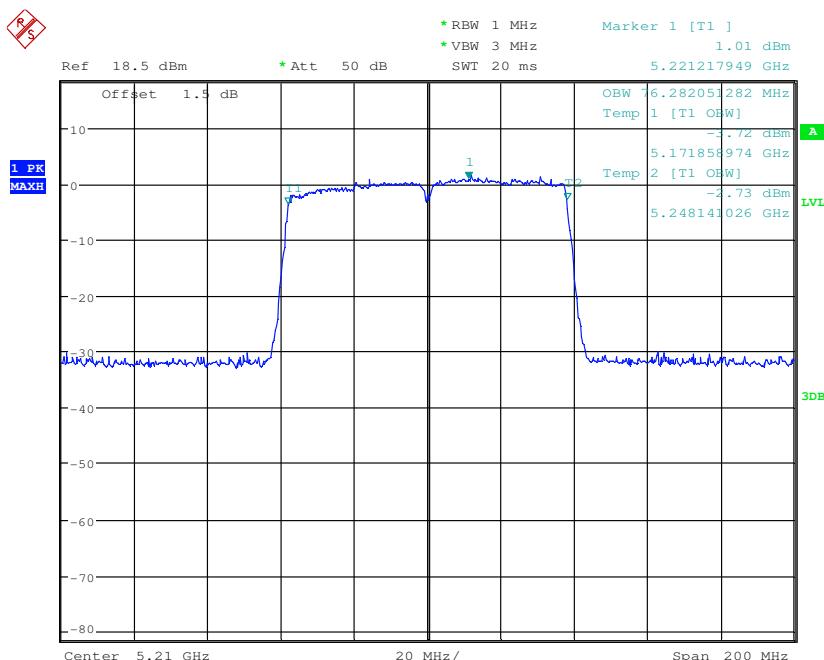


Report No.: SZEM160200065905
Page: 129 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5795
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5210
------------	-------------	-----------------	------



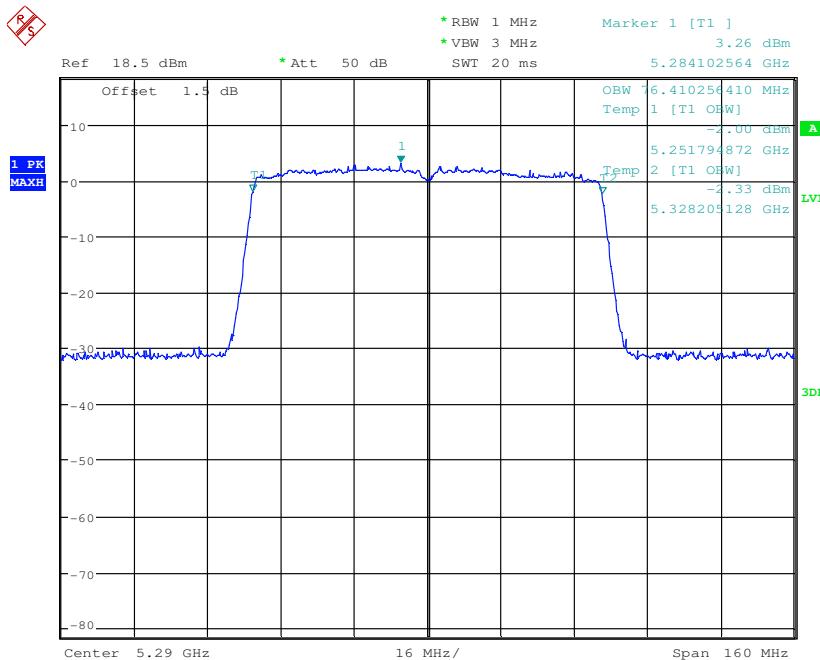
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

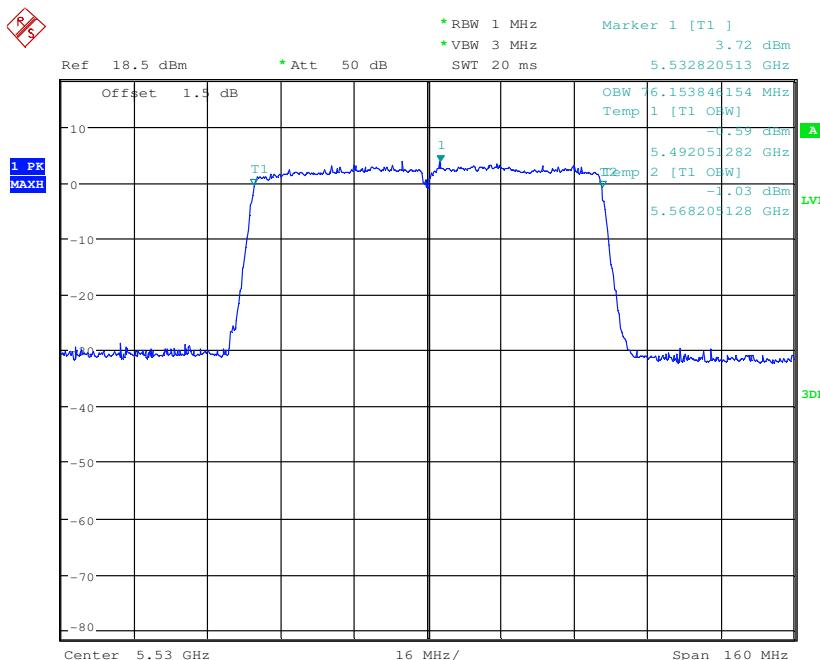


Report No.: SZEM160200065905
 Page: 130 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5290
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5530
------------	-------------	-----------------	------

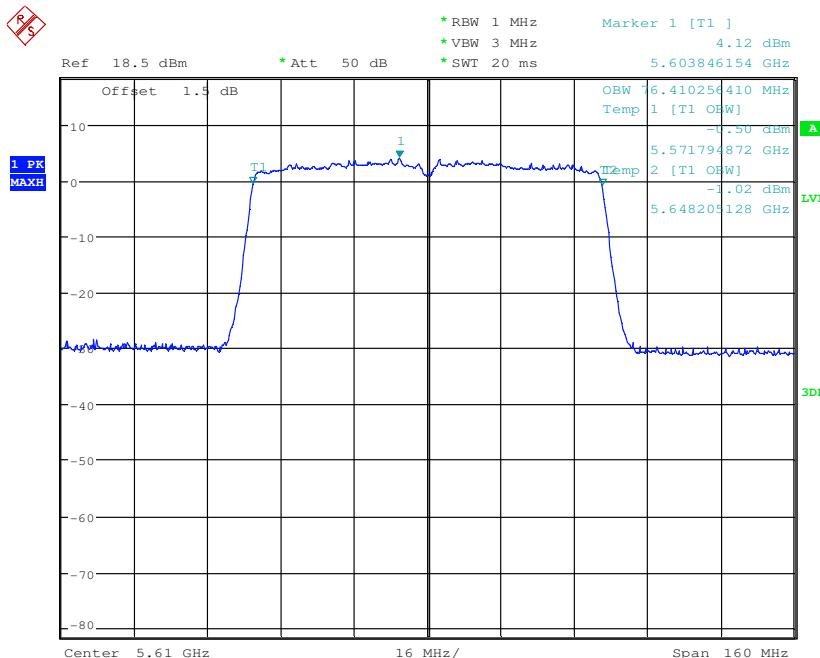


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

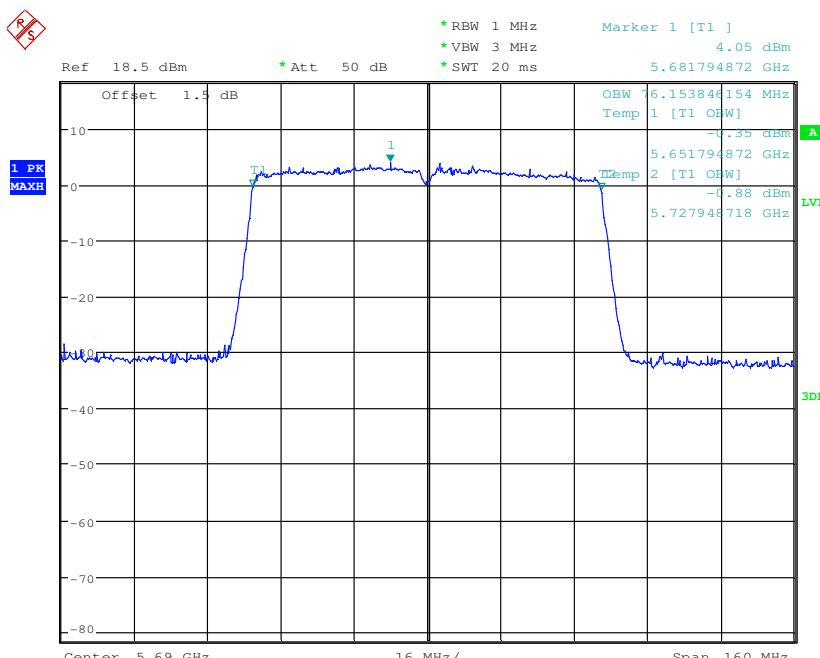


Report No.: SZEM160200065905
 Page: 131 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5610
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5690
------------	-------------	-----------------	------

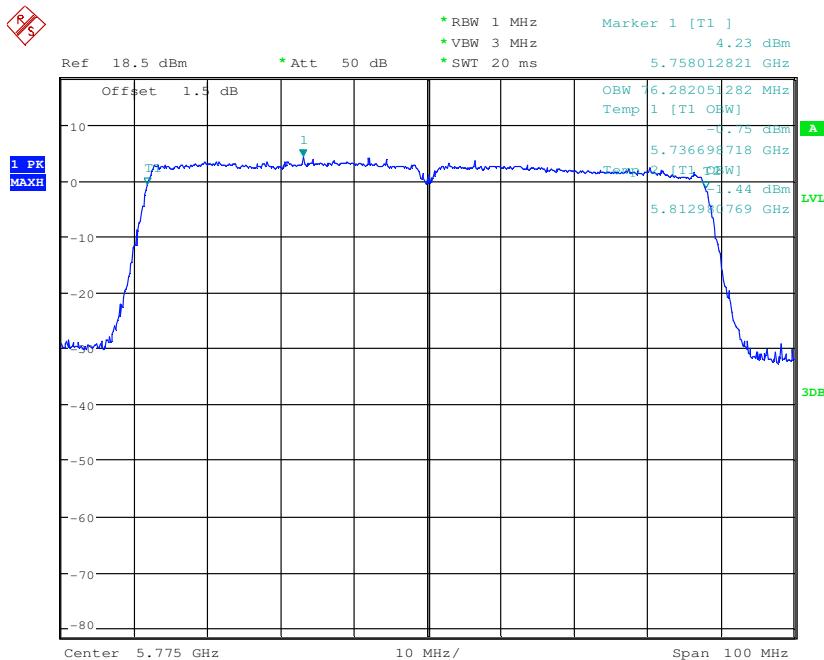


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 132 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5775
------------	-------------	-----------------	------



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

6.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:	<p>The diagram illustrates the test setup for measuring 6dB Emission Bandwidth. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a coaxial cable. The E.U.T is placed on a Non-Conducted Table. The entire setup is positioned above a Ground Reference Plane.</p>	
Instruments Used:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, 6Mbps of rate is the worst case of 802.11a; 6.5Mbps of rate is the worst case of 802.11n(HT20); 6.5Mbps of rate is the worst case of 802.11ac 20; 13.5Mbps of rate is the worst case of 802.11n(HT40); 13.5Mbps of rate is the worst case of 802.11ac 40; 29.2Mbps of rate is the worst case of 802.11ac 80.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At lease 500kHz
Test Results:	Pass	

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 134 of 306

Measurement Data:

802.11a mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
5745	16.380	≥500	Pass
5785	16.410	≥500	Pass
5825	16.410	≥500	Pass

802.11 n20 mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
5745	17.640	≥500	Pass
5785	17.640	≥500	Pass
5825	17.640	≥500	Pass

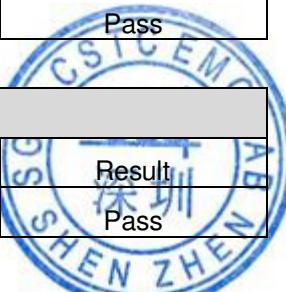
802.11ac 20 mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
5745	17.640	≥500	Pass
5785	17.640	≥500	Pass
5825	17.640	≥500	Pass

802.11 n40 mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
5755	36.420	≥500	Pass
5795	36.420	≥500	Pass

802.11ac 40 mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
5755	36.420	≥500	Pass
5795	36.420	≥500	Pass

802.11ac 80 mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
5775	76.442	≥500	Pass

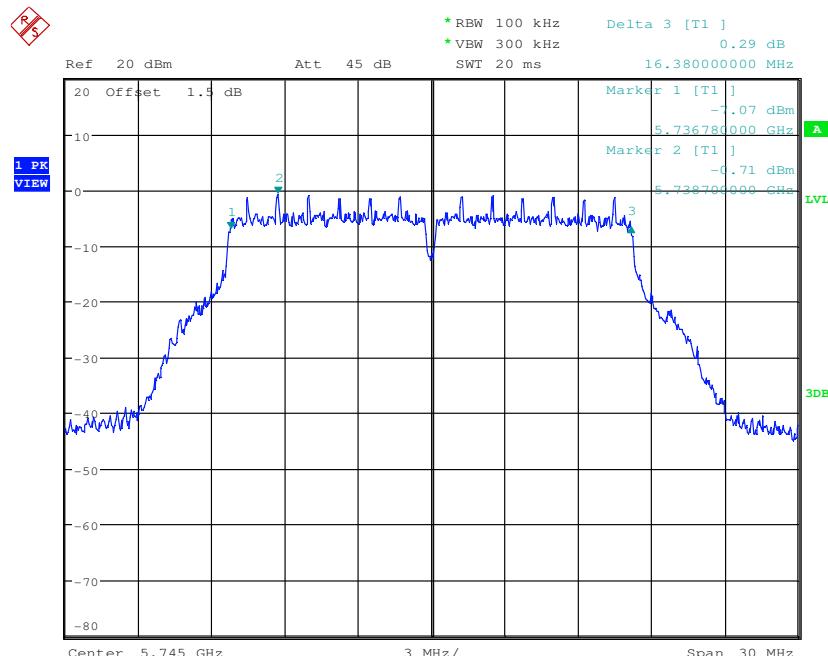
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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



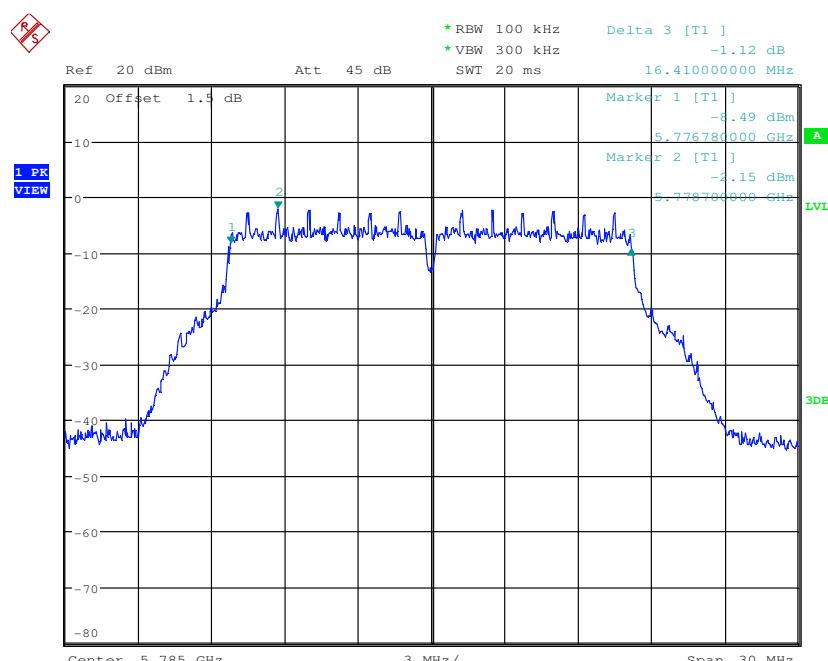


Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5745
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5785
------------	---------	-----------------	------

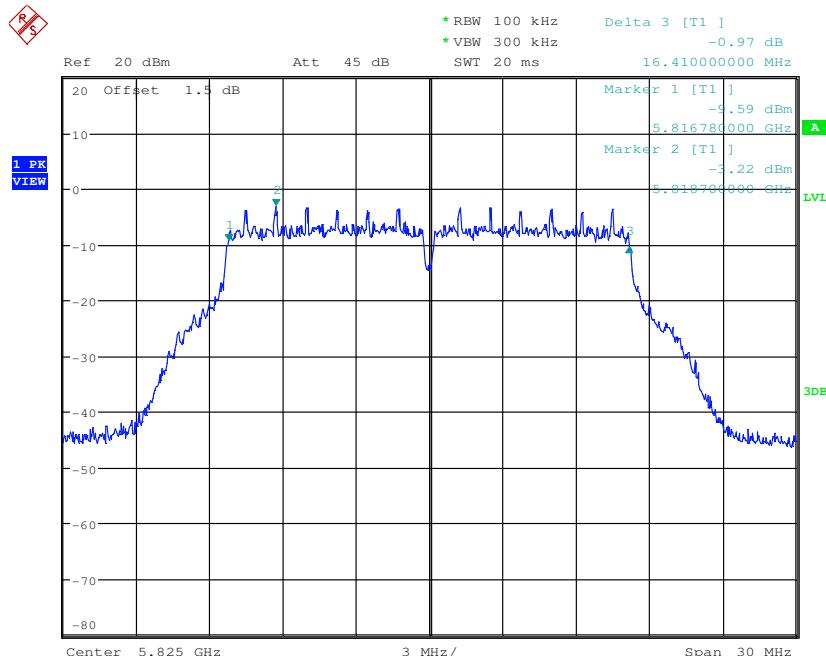


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

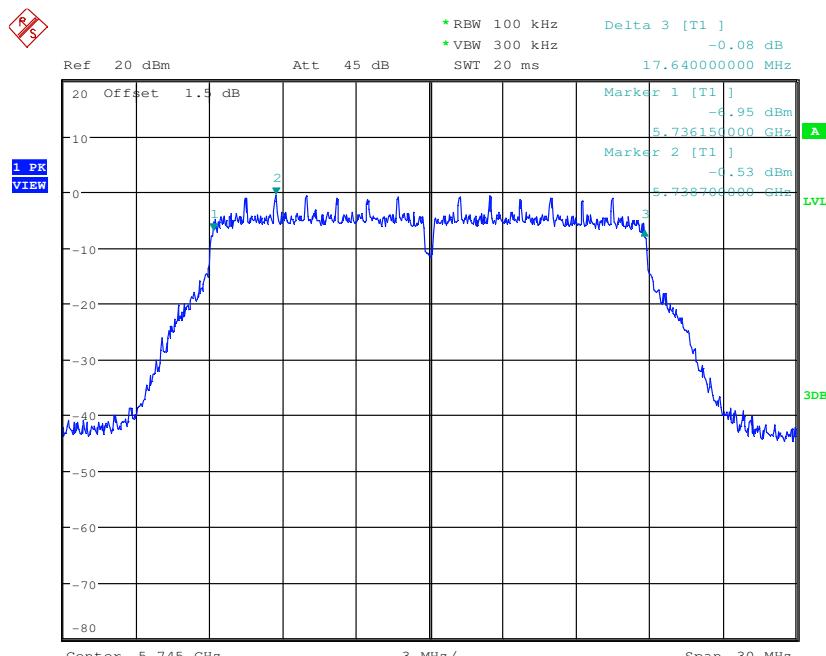


Report No.: SZEM160200065905
 Page: 136 of 306

Test mode:	802.11a	Frequency(MHz):	5825
------------	---------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5745
------------	------------	-----------------	------



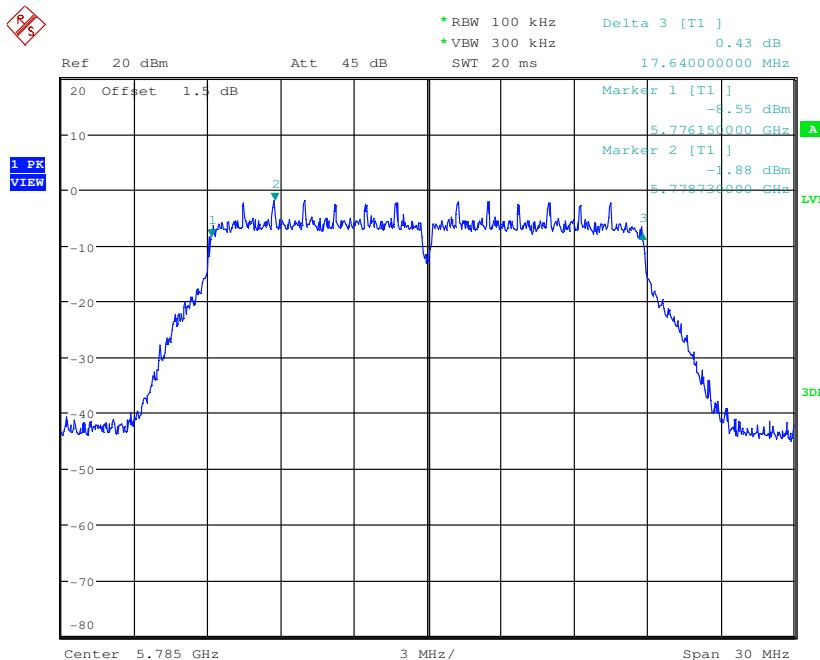
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

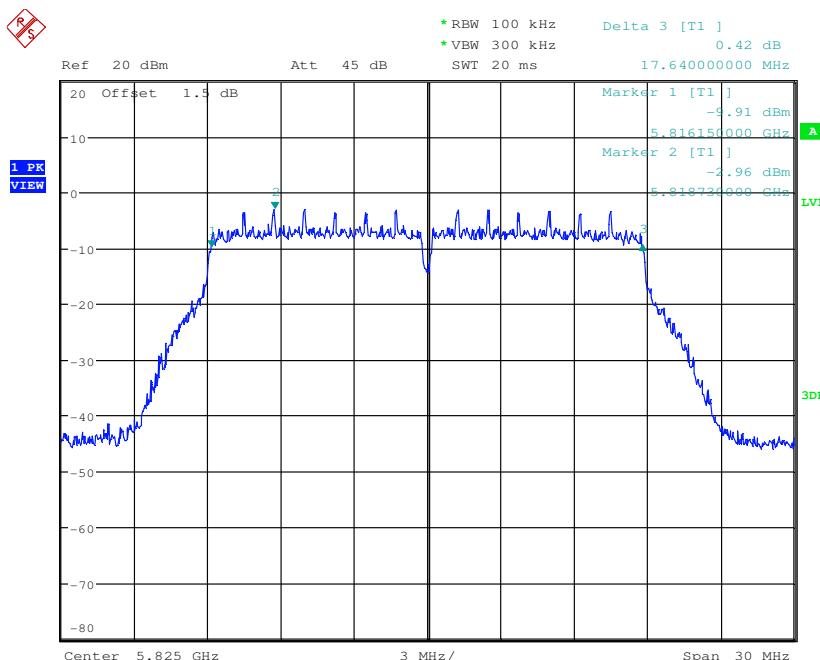


Report No.: SZEM160200065905
Page: 137 of 306

Test mode:	802.11 n20	Frequency(MHz):	5785
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5825
------------	------------	-----------------	------

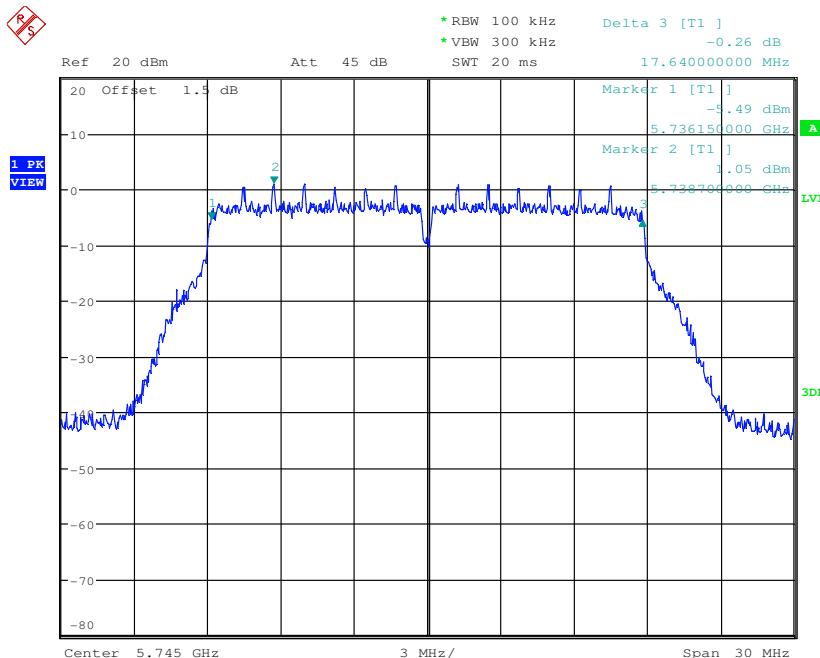


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

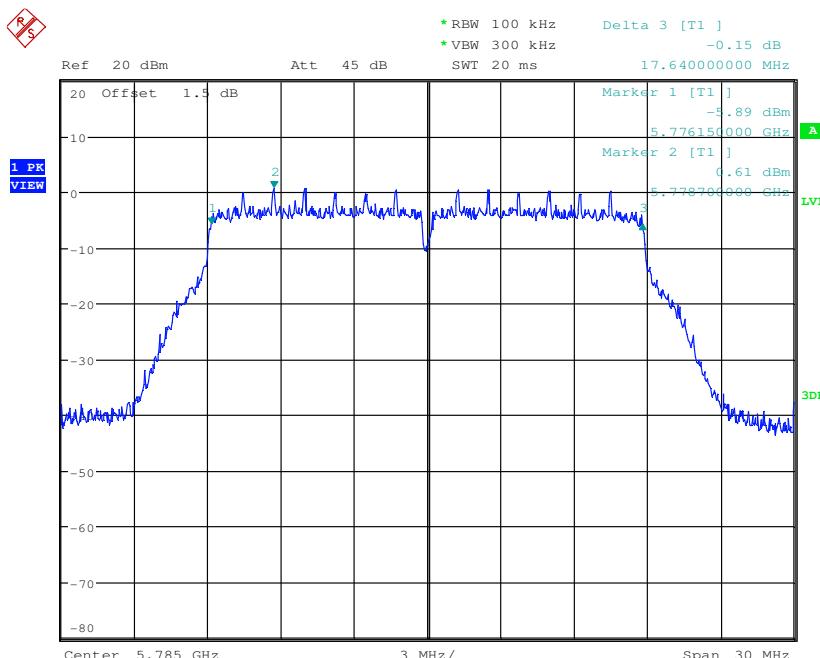


Report No.: SZEM160200065905
Page: 138 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5745
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5785
------------	-------------	-----------------	------



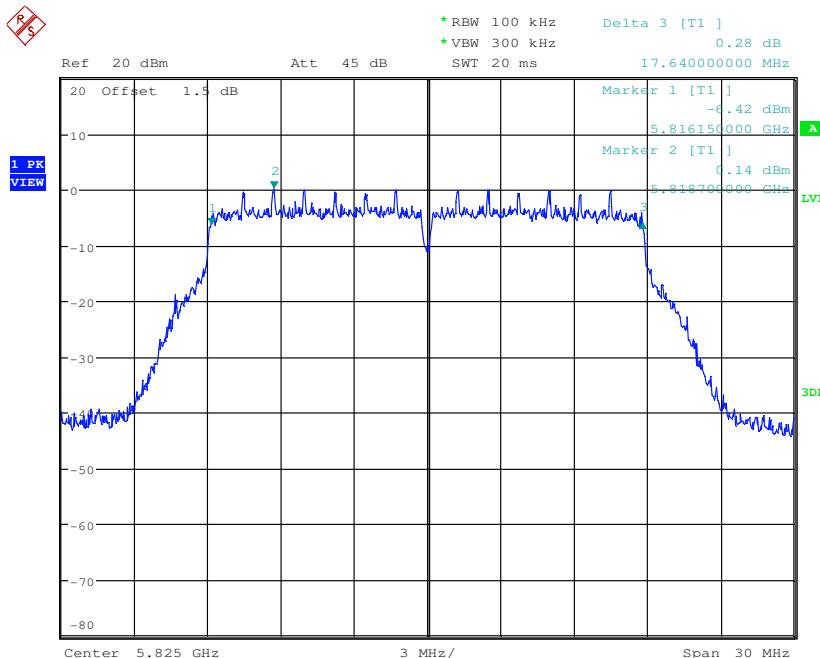
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

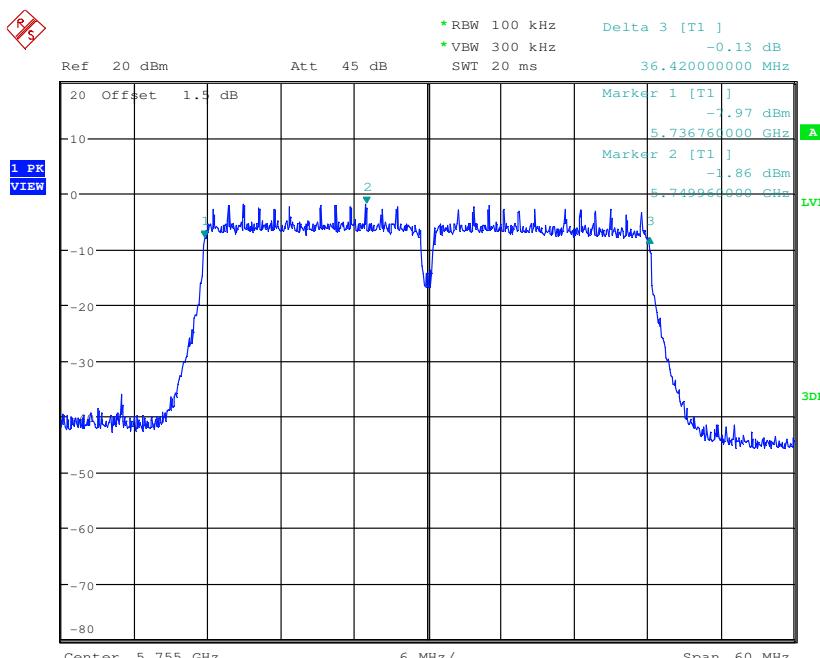


Report No.: SZEM160200065905
Page: 139 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5825
------------	-------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5755
------------	------------	-----------------	------



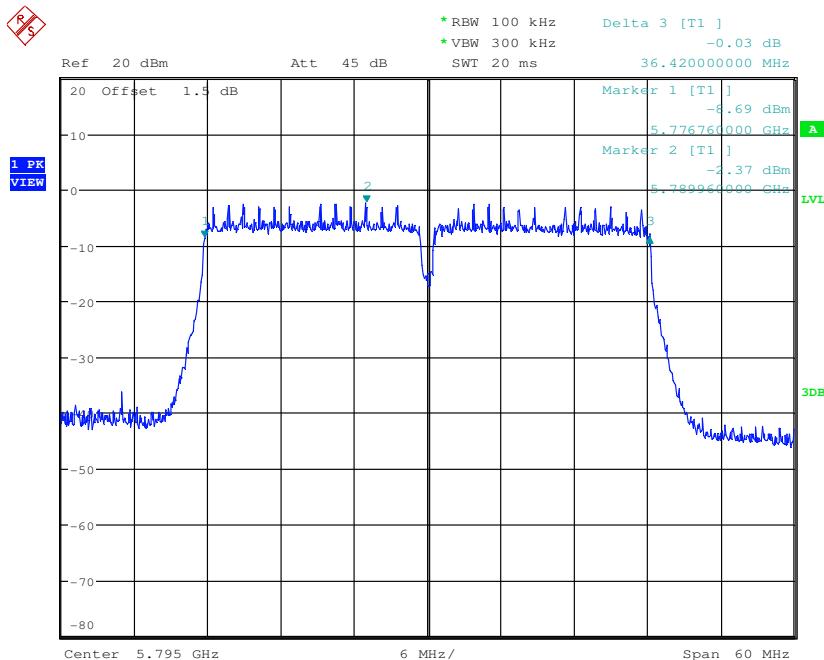
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

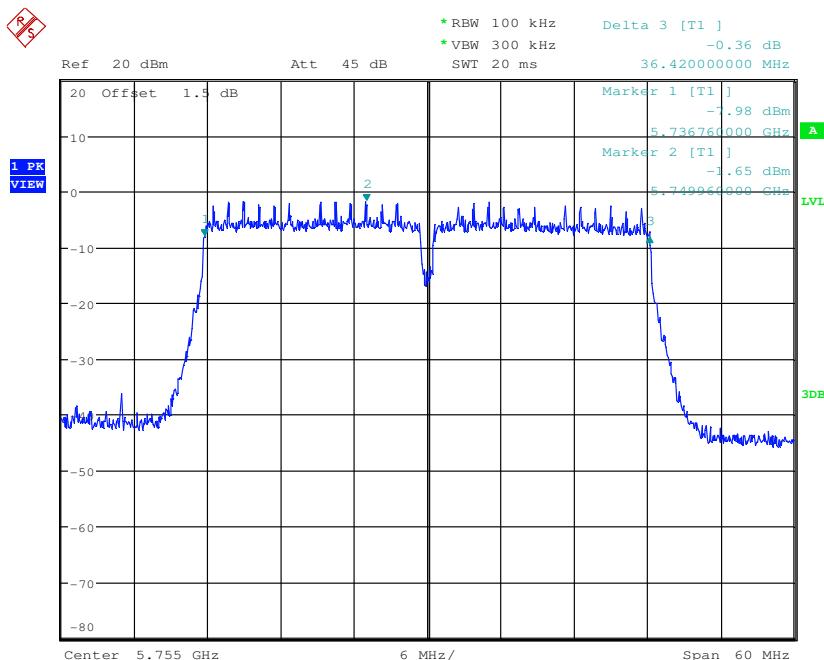


Report No.: SZEM160200065905
Page: 140 of 306

Test mode:	802.11 n40	Frequency(MHz):	5795
------------	------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5755
------------	-------------	-----------------	------



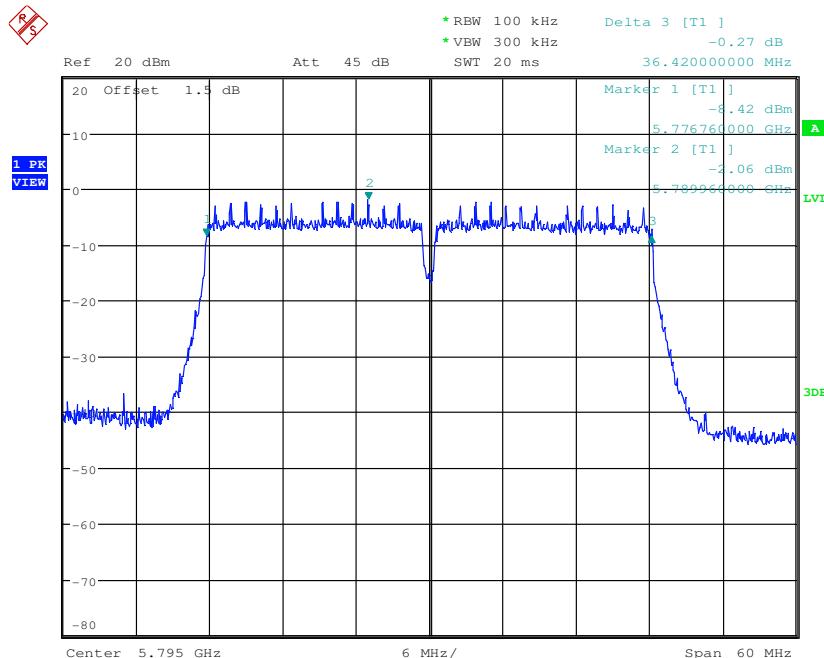
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

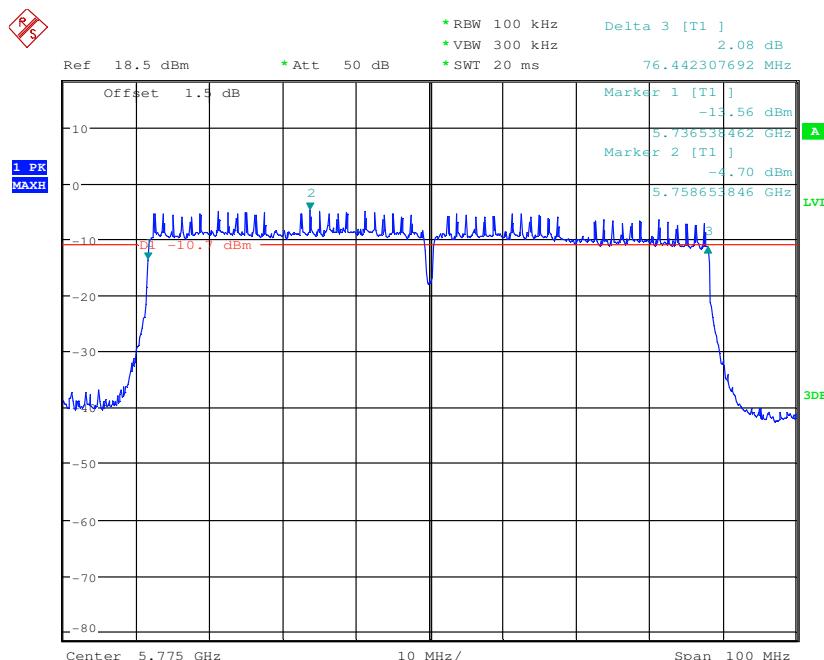


Report No.: SZEM160200065905
Page: 141 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5795
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5775
------------	-------------	-----------------	------



6.7 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:	<p>The diagram shows a 'Spectrum Analyzer' with a green waveform on its screen. A red line connects the analyzer to a 'E.U.T' (Equipment Under Test) box. The entire setup is resting on a 'Non-Conducted Table'. Below the table is a 'Ground Reference Plane'.</p>	
	<p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>	
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, 6Mbps of rate is the worst case of 802.11a; 6.5Mbps of rate is the worst case of 802.11n(HT20); 6.5Mbps of rate is the worst case of 802.11ac 20; 13.5Mbps of rate is the worst case of 802.11n(HT40); 13.5Mbps of rate is the worst case of 802.11ac 40; 29.2Mbps of rate is the worst case of 802.11ac 80.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than 30dBm/500kHz
Test Results:	Pass	

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 143 of 306

Measurement Data:

802.11a mode			
Frequency (MHz)	Power Spectral Density	Limit (kHz)	Result
5180	0.62	≤11dBm/1MHz	Pass
5200	1.18	≤11dBm/1MHz	Pass
5240	2.07	≤11dBm/1MHz	Pass
5260	2.49	≤11dBm/1MHz	Pass
5300	2.16	≤11dBm/1MHz	Pass
5320	1.88	≤11dBm/1MHz	Pass
5500	0.99	≤11dBm/1MHz	Pass
5580	1.72	≤11dBm/1MHz	Pass
5600	2.02	≤11dBm/1MHz	Pass
5700	0.99	≤11dBm/1MHz	Pass
5745	-1.53	≤30dBm/500kHz	Pass
5785	-2.95	≤30dBm/500kHz	Pass
5825	-4.17	≤30dBm/500kHz	Pass

802.11 n20 mode			
Frequency (MHz)	Power Spectral Density	Limit (kHz)	Result
5180	0.29	≤11dBm/1MHz	Pass
5200	1.10	≤11dBm/1MHz	Pass
5240	1.81	≤11dBm/1MHz	Pass
5260	2.30	≤11dBm/1MHz	Pass
5300	2.03	≤11dBm/1MHz	Pass
5320	1.85	≤11dBm/1MHz	Pass
5500	1.00	≤11dBm/1MHz	Pass
5580	1.70	≤11dBm/1MHz	Pass
5600	1.80	≤11dBm/1MHz	Pass
5700	0.94	≤11dBm/1MHz	Pass
5745	-1.39	≤30dBm/500kHz	Pass
5785	-2.81	≤30dBm/500kHz	Pass
5825	-3.84	≤30dBm/500kHz	Pass

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 144 of 306

802.11ac 20 mode			
Frequency (MHz)	Power Spectral Density	Limit (kHz)	Result
5180	-1.06	≤11dBm/1MHz	Pass
5220	-0.65	≤11dBm/1MHz	Pass
5240	-0.02	≤11dBm/1MHz	Pass
5260	0.69	≤11dBm/1MHz	Pass
5300	1.02	≤11dBm/1MHz	Pass
5320	1.26	≤11dBm/1MHz	Pass
5500	1.78	≤11dBm/1MHz	Pass
5580	1.79	≤11dBm/1MHz	Pass
5600	1.71	≤11dBm/1MHz	Pass
5700	1.96	≤11dBm/1MHz	Pass
5745	0.35	≤30dBm/500kHz	Pass
5785	0.11	≤30dBm/500kHz	Pass
5825	-0.13	≤30dBm/500kHz	Pass

802.11 n40 mode			
Frequency (MHz)	Power Spectral Density	Limit (kHz)	Result
5190	-3.73	≤11dBm/1MHz	Pass
5230	-3.13	≤11dBm/1MHz	Pass
5270	-2.05	≤11dBm/1MHz	Pass
5310	-1.93	≤11dBm/1MHz	Pass
5510	-1.31	≤11dBm/1MHz	Pass
5550	-1.41	≤11dBm/1MHz	Pass
5590	-1.37	≤11dBm/1MHz	Pass
5670	-1.10	≤11dBm/1MHz	Pass
5755	-2.66	≤30dBm/500kHz	Pass
5795	-3.10	≤30dBm/500kHz	Pass



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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 145 of 306

802.11ac 40 mode			
Frequency (MHz)	Power Spectral Density	Limit (kHz)	Result
5190	-3.69	≤11dBm/1MHz	Pass
5230	-3.01	≤11dBm/1MHz	Pass
5270	-1.81	≤11dBm/1MHz	Pass
5310	-1.646	≤11dBm/1MHz	Pass
5510	-1.39	≤11dBm/1MHz	Pass
5550	-1.23	≤11dBm/1MHz	Pass
5590	-1.56	≤11dBm/1MHz	Pass
5670	-1.31	≤11dBm/1MHz	Pass
5755	-2.69	≤30dBm/500kHz	Pass
5795	-3.05	≤30dBm/500kHz	Pass

802.11ac 80 mode			
Frequency (MHz)	Power Spectral Density	Limit (kHz)	Result
5210	1.88	≤11dBm/1MHz	Pass
5290	3.22	≤11dBm/1MHz	Pass
5530	3.76	≤11dBm/1MHz	Pass
5610	2.82	≤11dBm/1MHz	Pass
5690	3.02	≤11dBm/1MHz	Pass
5775	3.48	≤30dBm/500kHz	Pass

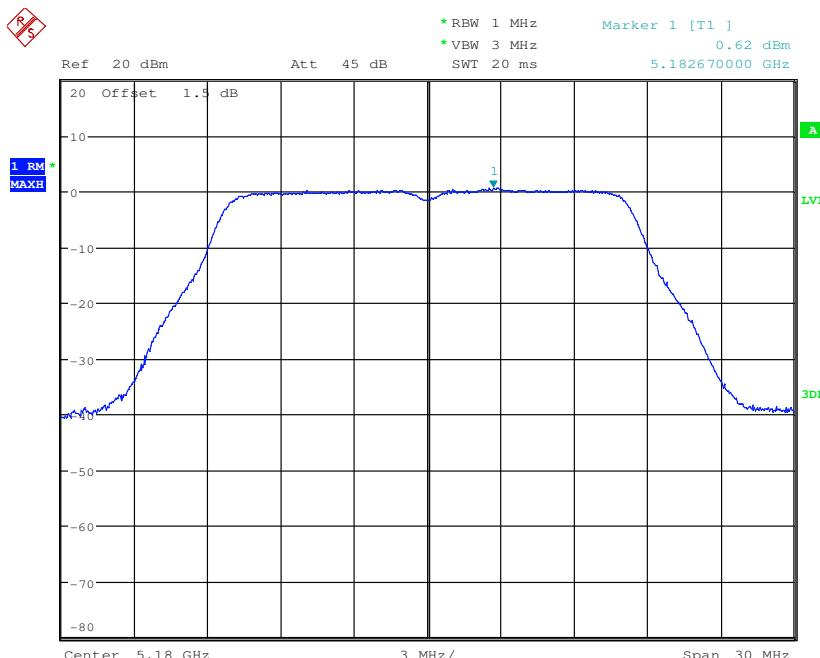
SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



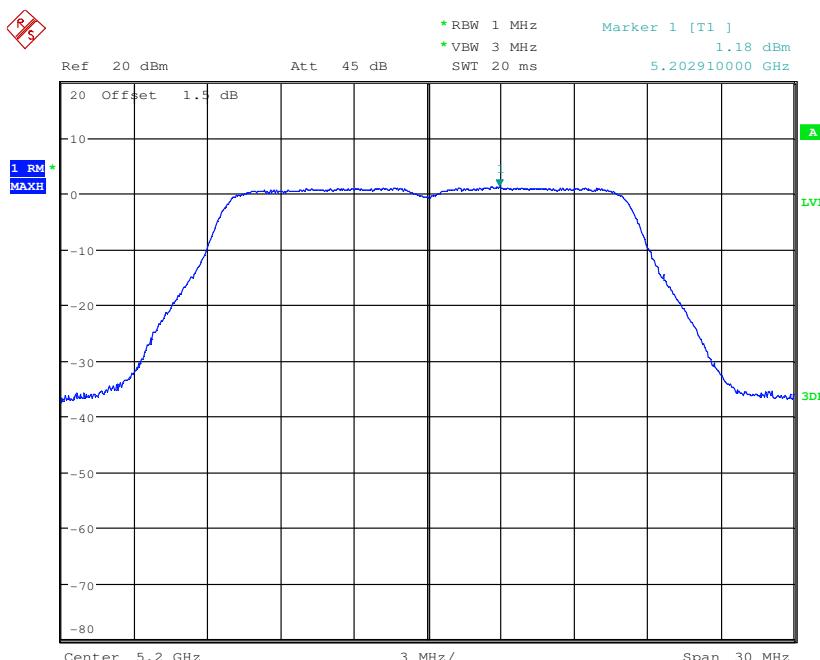
Report No.: SZEM160200065905
 Page: 146 of 306

Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5200
------------	---------	-----------------	------

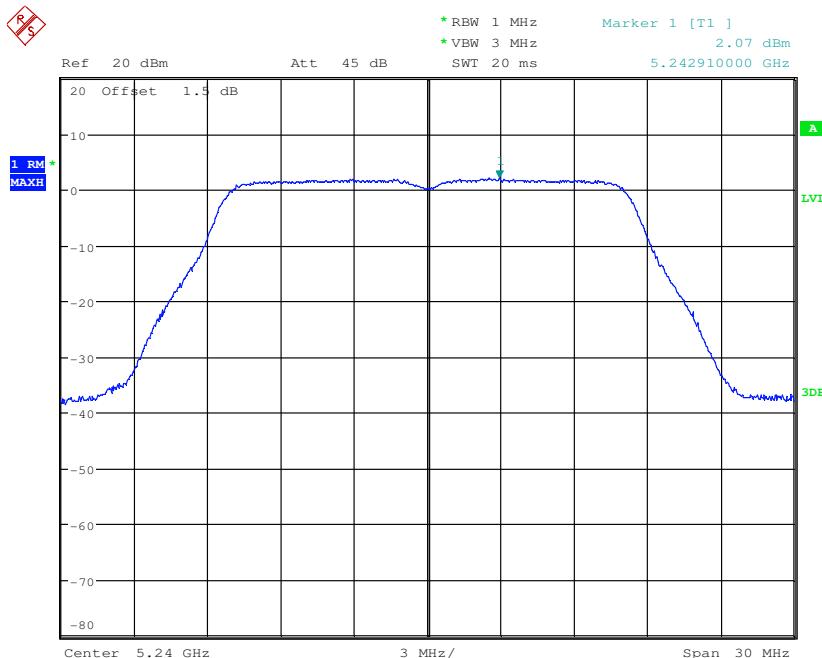


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

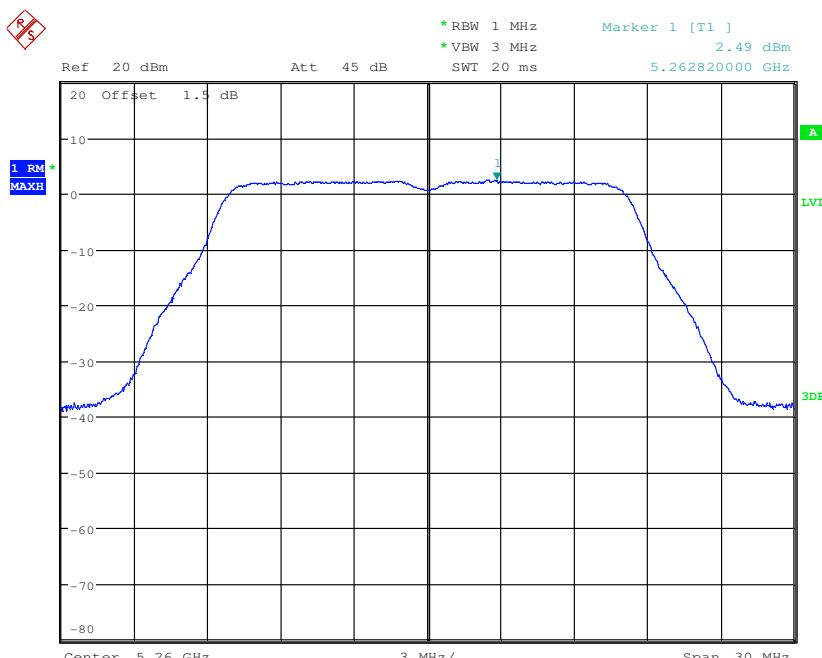


Report No.: SZEM160200065905
Page: 147 of 306

Test mode:	802.11a	Frequency(MHz):	5240
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5260
------------	---------	-----------------	------

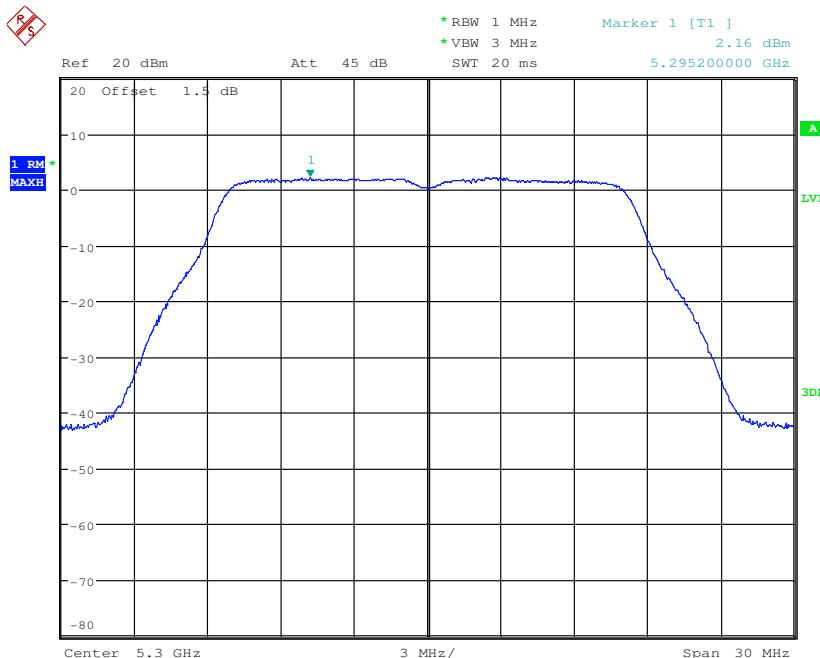


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

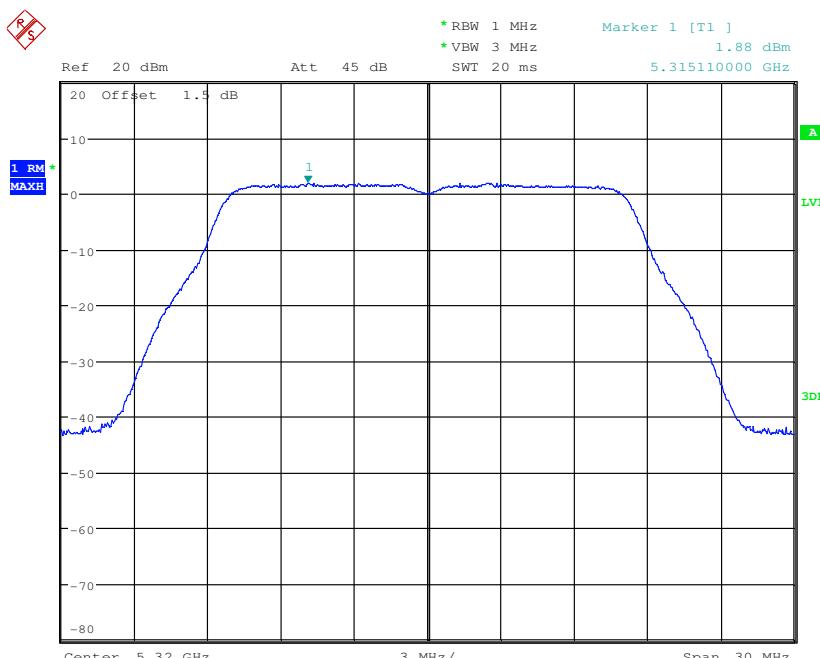


Report No.: SZEM160200065905
Page: 148 of 306

Test mode:	802.11a	Frequency(MHz):	5300
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5320
------------	---------	-----------------	------

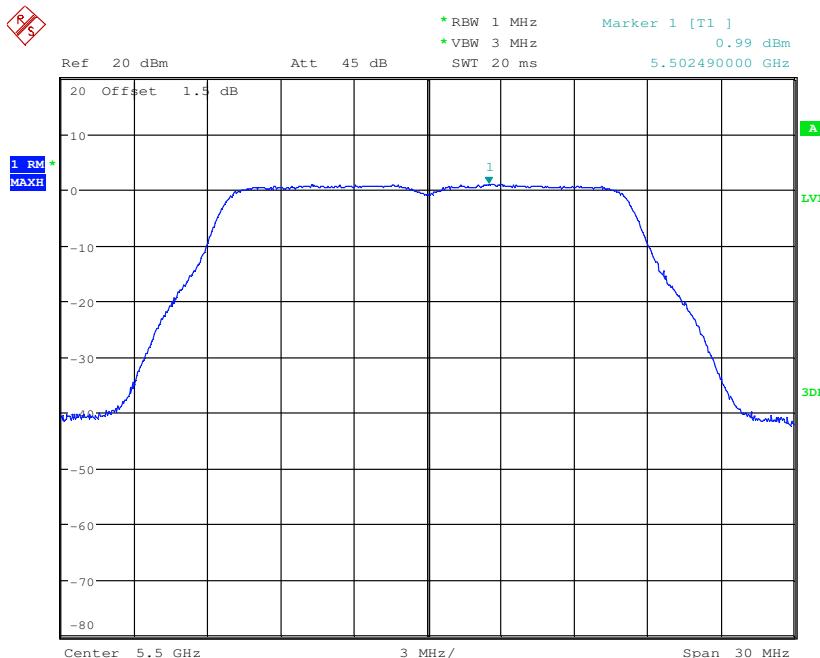


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

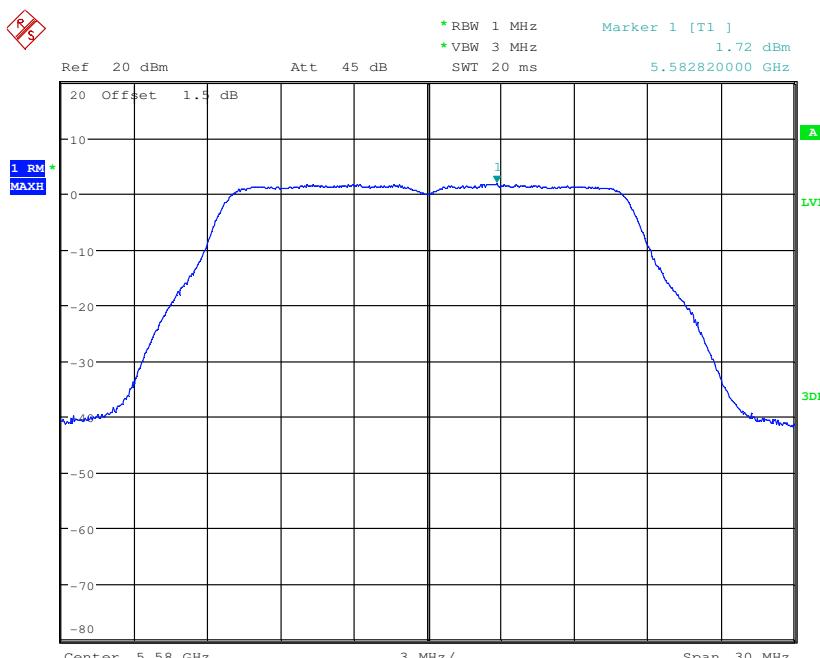


Report No.: SZEM160200065905
Page: 149 of 306

Test mode:	802.11a	Frequency(MHz):	5500
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5580
------------	---------	-----------------	------

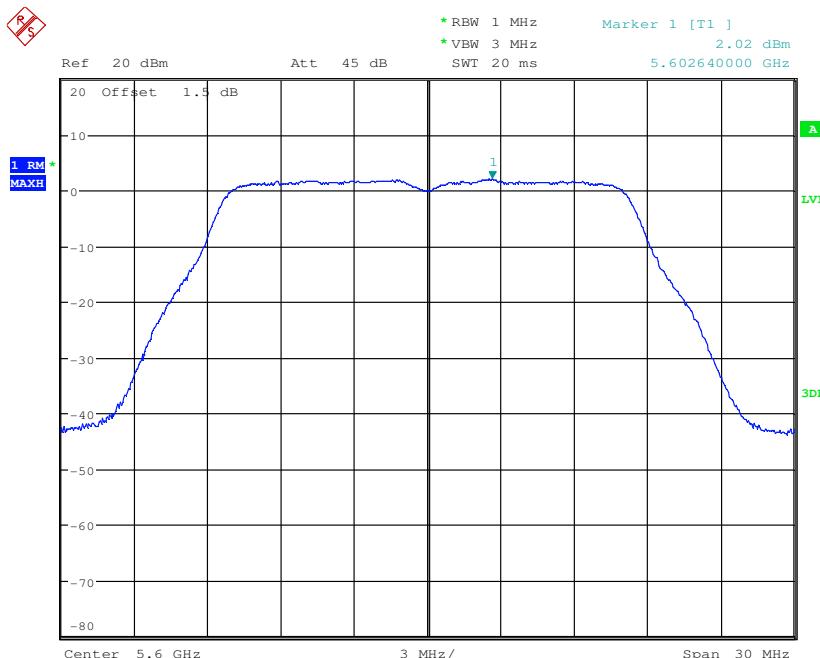


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

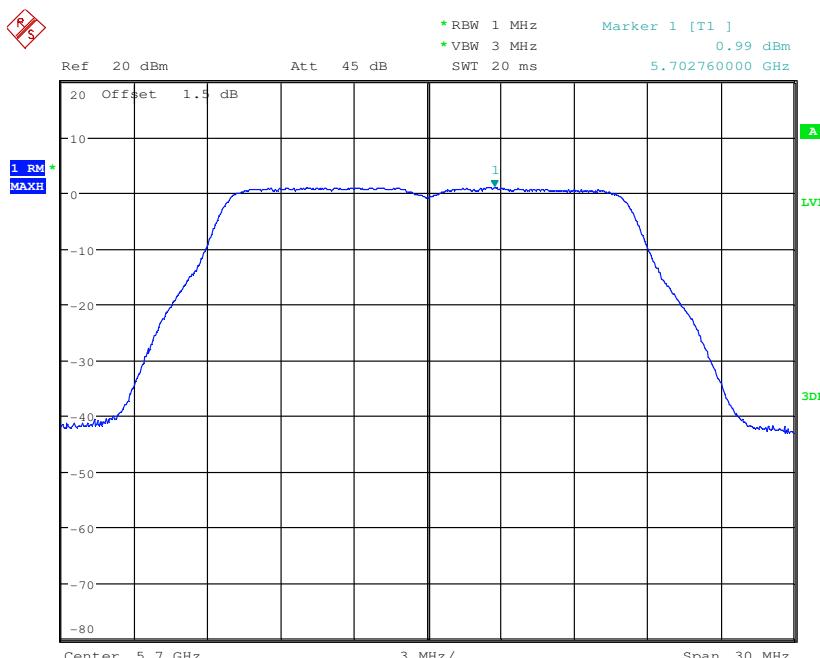


Report No.: SZEM160200065905
 Page: 150 of 306

Test mode:	802.11a	Frequency(MHz):	5600
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5700
------------	---------	-----------------	------

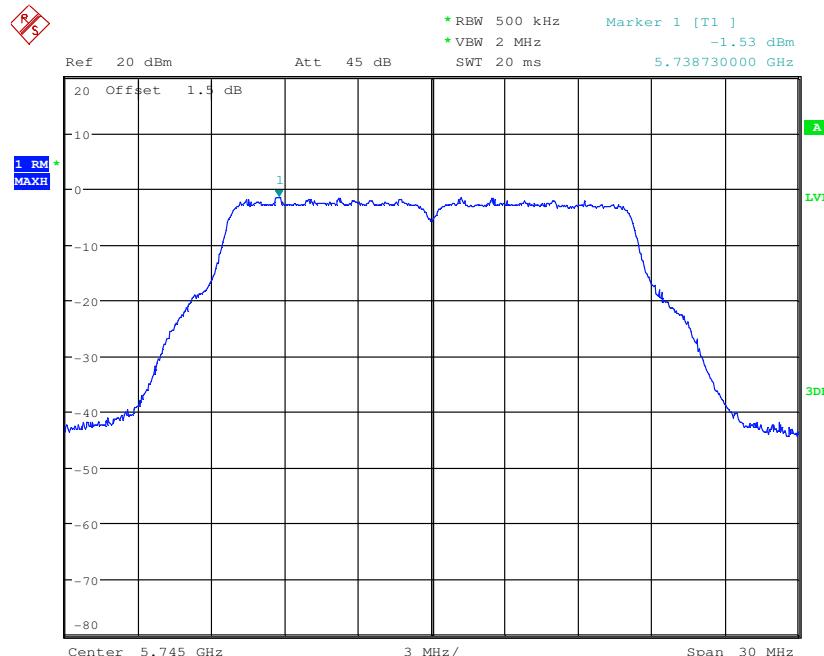


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

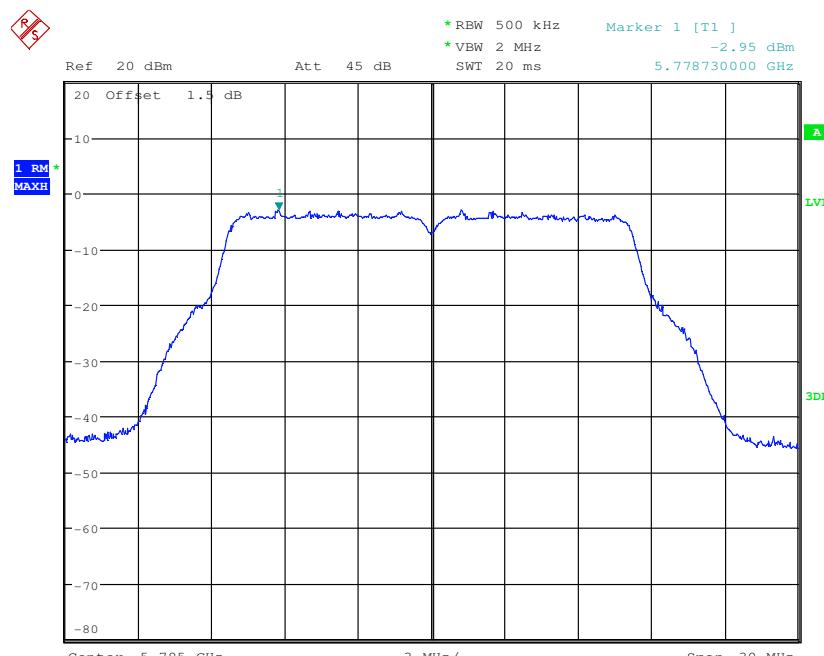


Report No.: SZEM160200065905
Page: 151 of 306

Test mode:	802.11a	Frequency(MHz):	5745
------------	---------	-----------------	------



Test mode:	802.11a	Frequency(MHz):	5785
------------	---------	-----------------	------

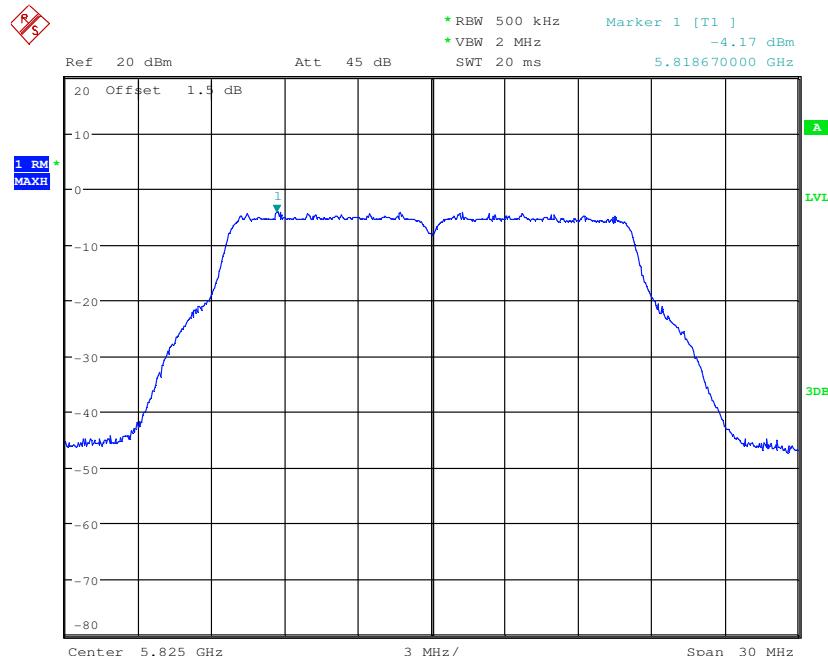


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

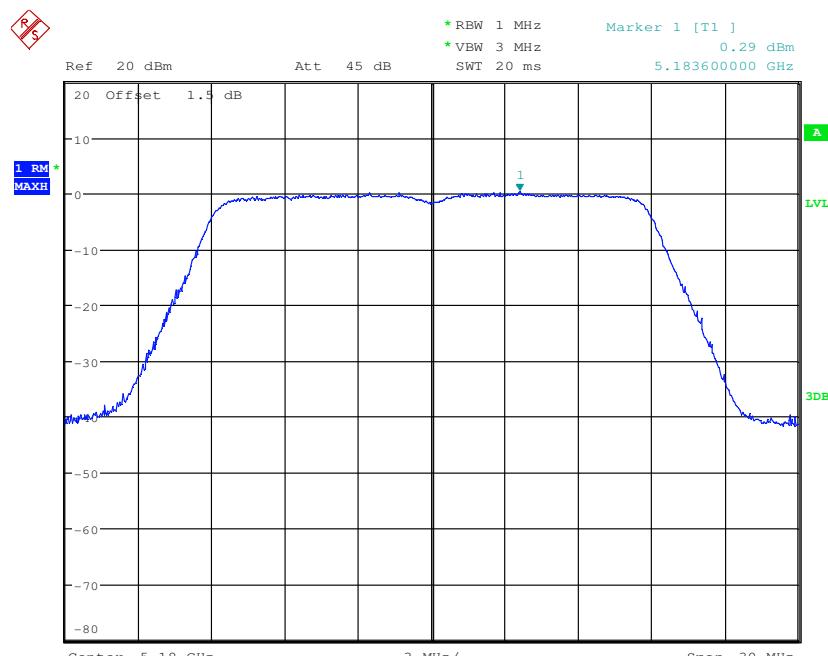


Report No.: SZEM160200065905
Page: 152 of 306

Test mode:	802.11a	Frequency(MHz):	5825
------------	---------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5180
------------	------------	-----------------	------

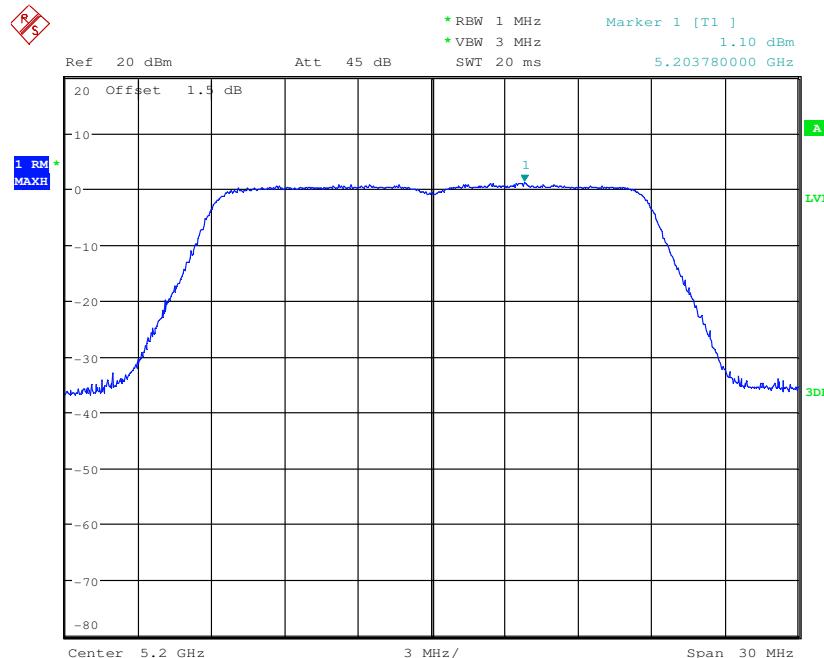


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

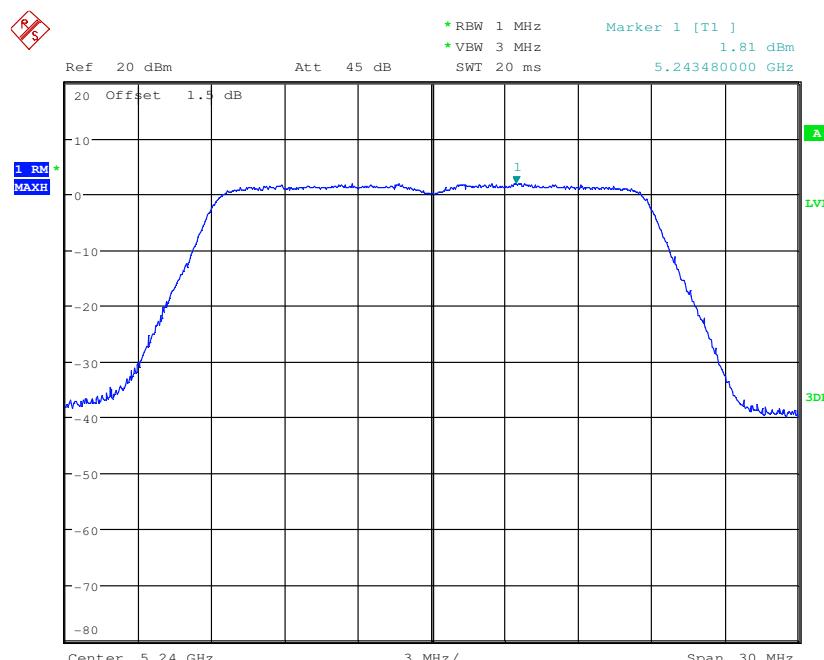


Report No.: SZEM160200065905
Page: 153 of 306

Test mode:	802.11 n20	Frequency(MHz):	5200
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5240
------------	------------	-----------------	------



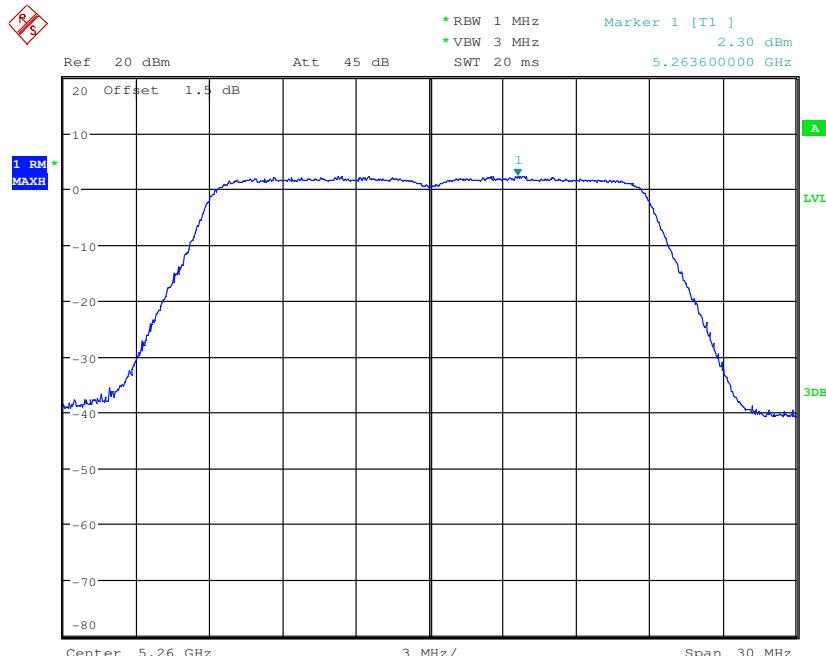
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

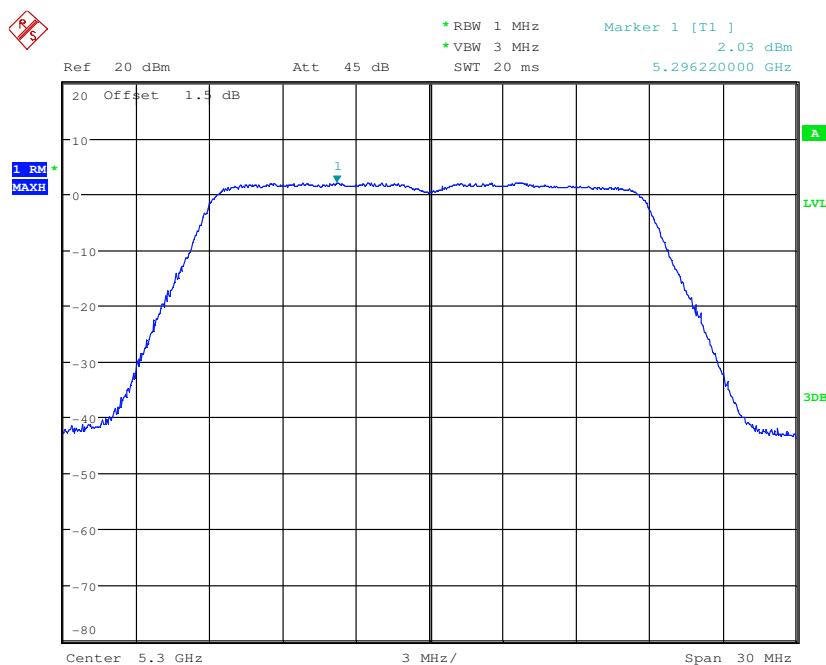


Report No.: SZEM160200065905
Page: 154 of 306

Test mode:	802.11 n20	Frequency(MHz):	5260
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5300
------------	------------	-----------------	------



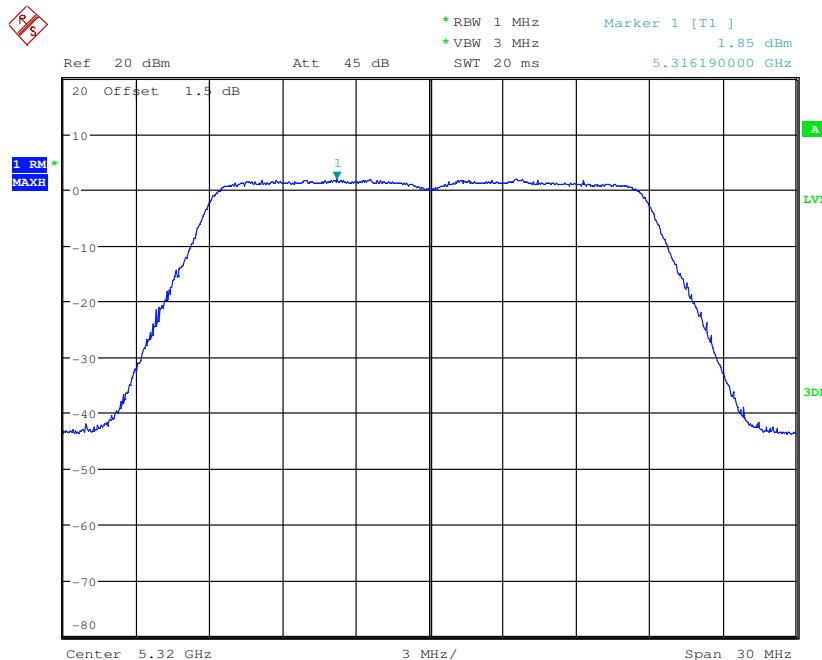
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

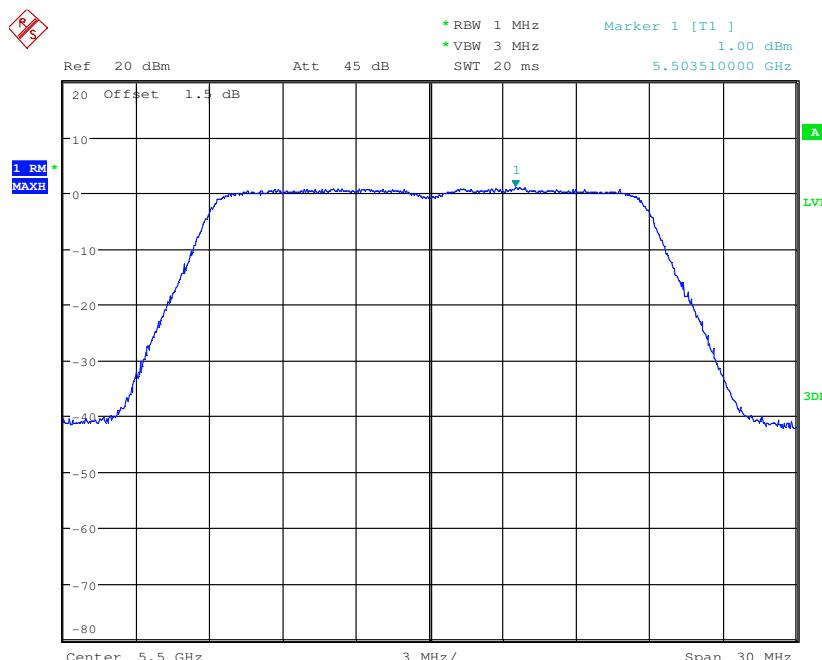


Report No.: SZEM160200065905
Page: 155 of 306

Test mode:	802.11 n20	Frequency(MHz):	5320
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5500
------------	------------	-----------------	------

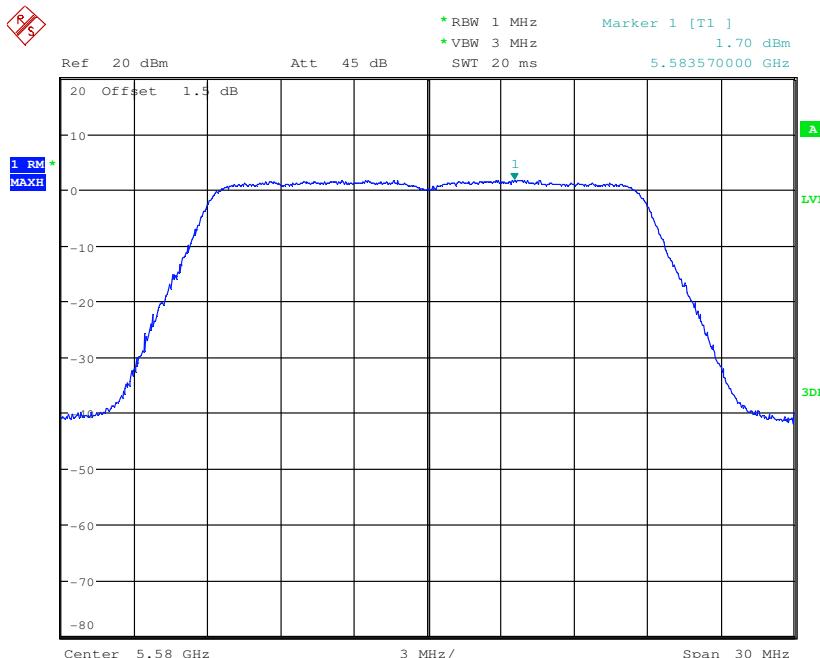


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

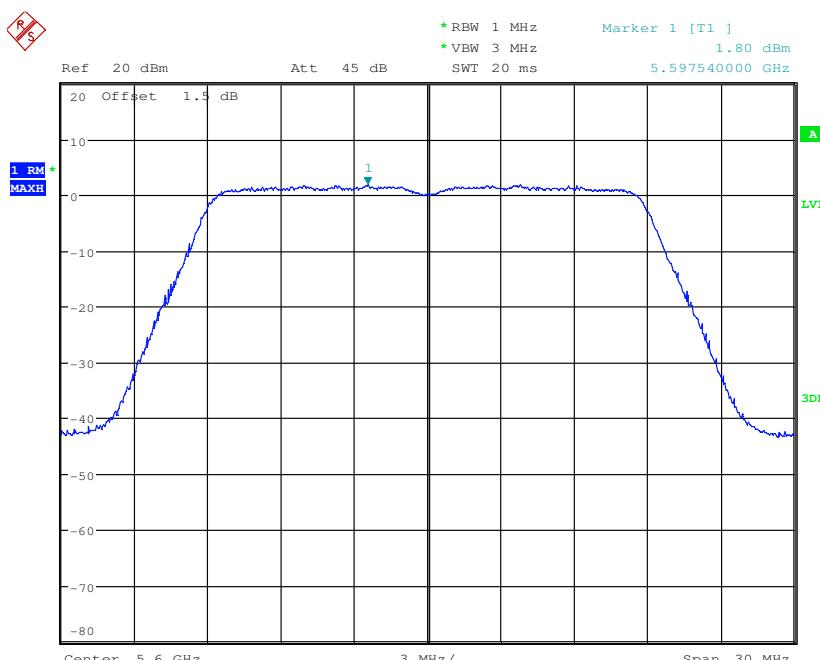


Report No.: SZEM160200065905
 Page: 156 of 306

Test mode:	802.11 n20	Frequency(MHz):	5580
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5600
------------	------------	-----------------	------

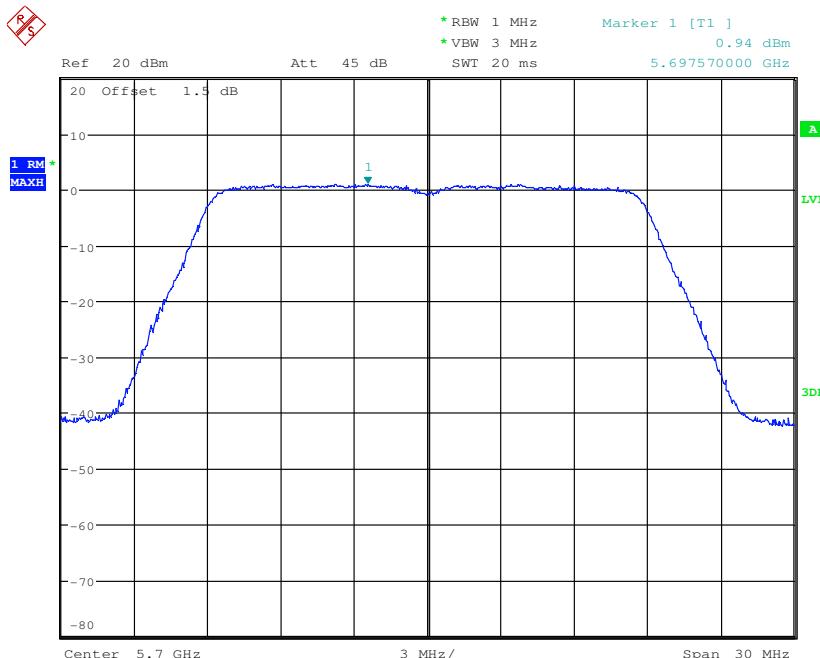


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

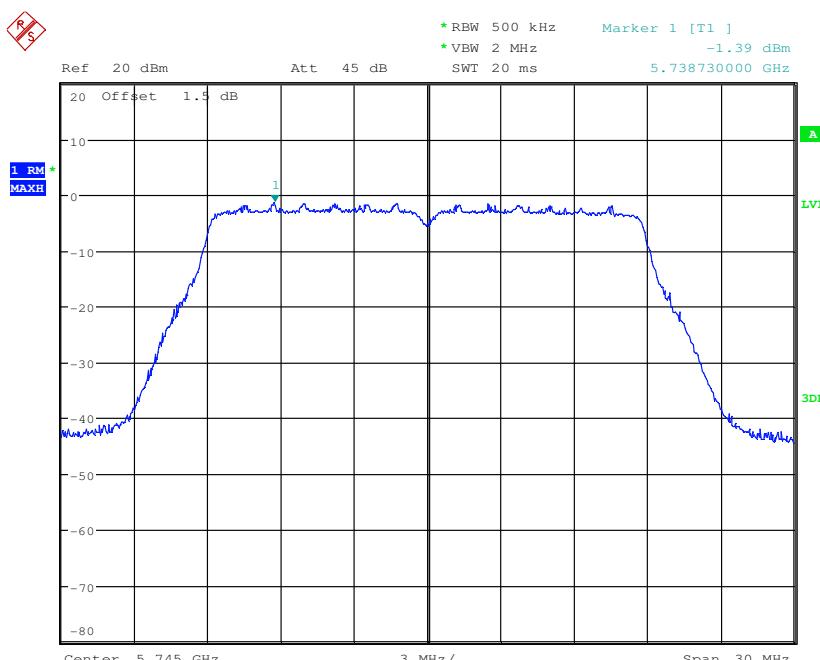


Report No.: SZEM160200065905
 Page: 157 of 306

Test mode:	802.11 n20	Frequency(MHz):	5700
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5745
------------	------------	-----------------	------

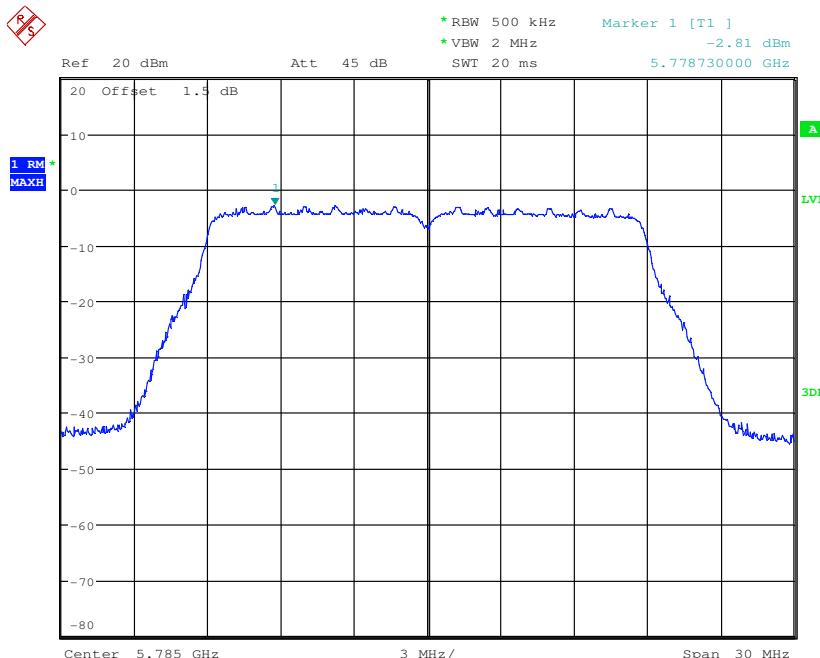


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

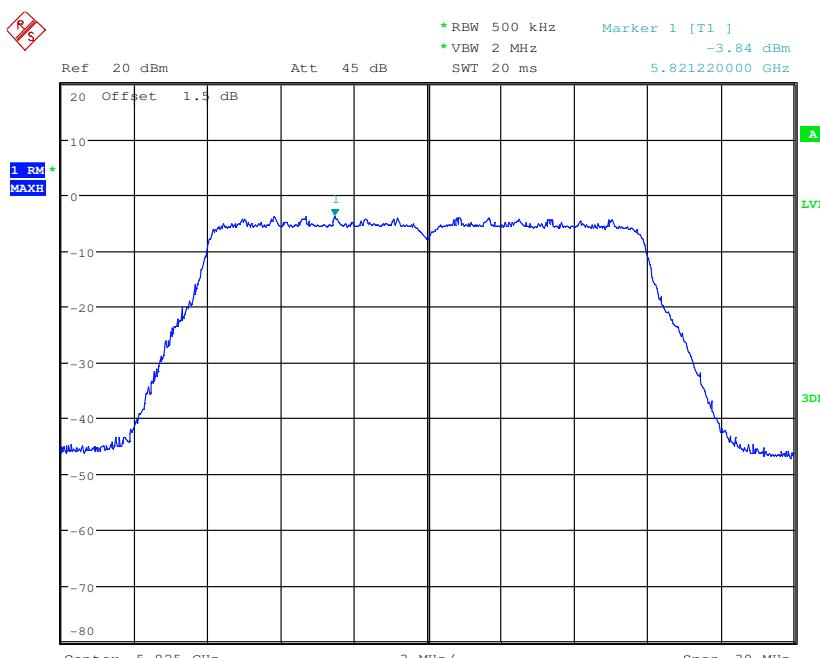


Report No.: SZEM160200065905
Page: 158 of 306

Test mode:	802.11 n20	Frequency(MHz):	5785
------------	------------	-----------------	------



Test mode:	802.11 n20	Frequency(MHz):	5825
------------	------------	-----------------	------

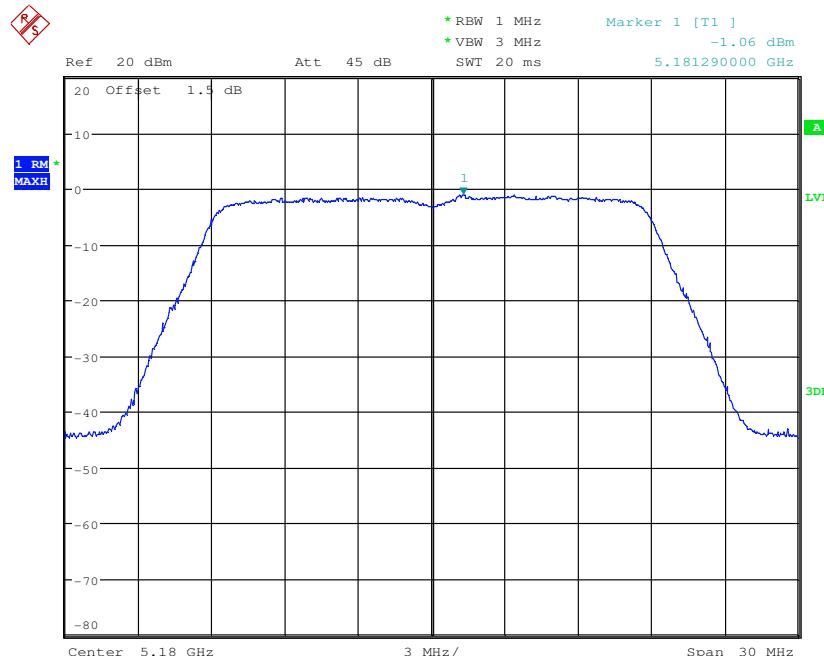


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

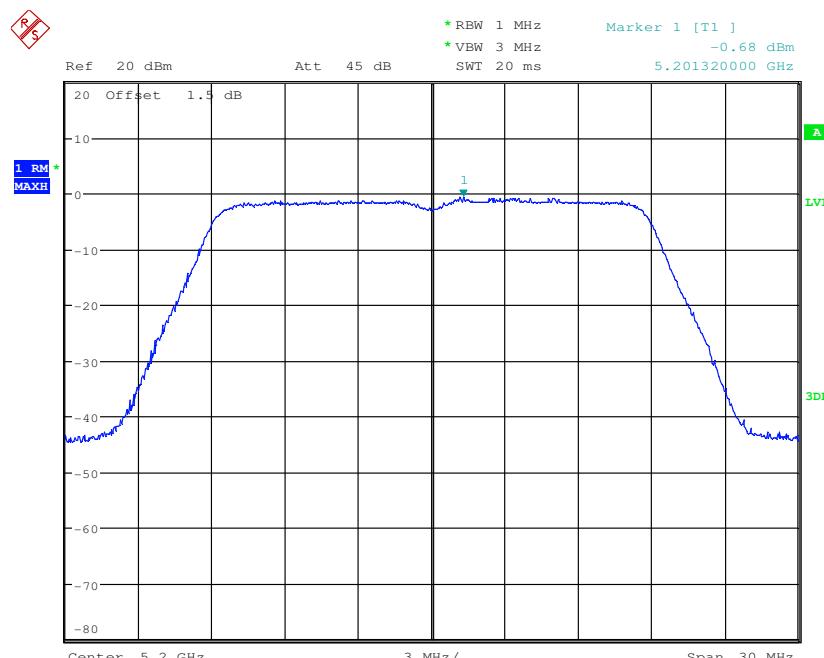


Report No.: SZEM160200065905
Page: 159 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5180
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5200
------------	-------------	-----------------	------

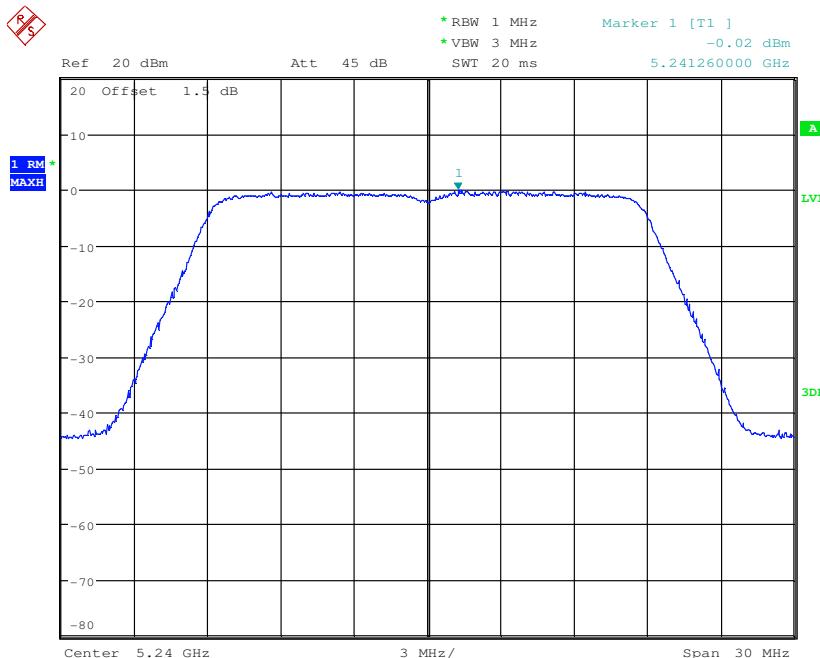


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

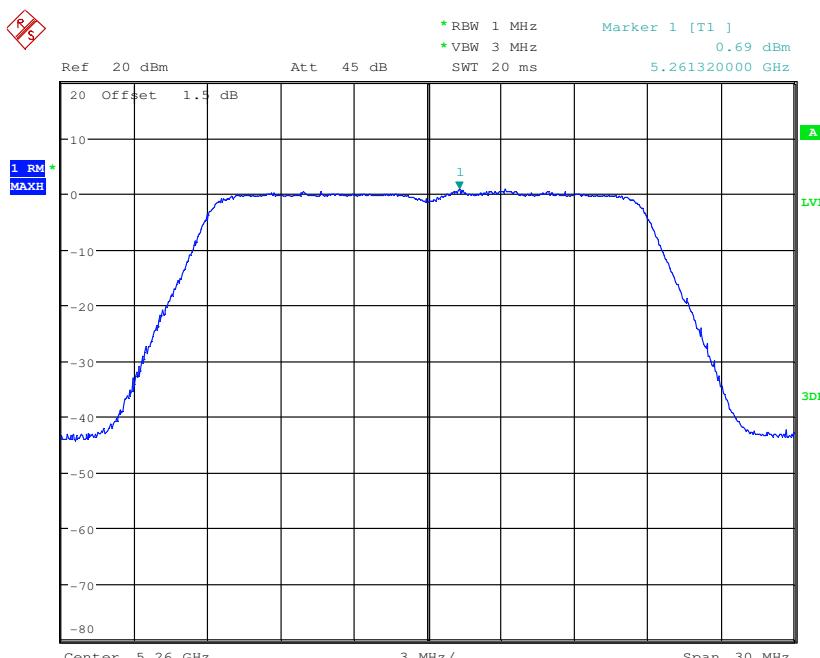


Report No.: SZEM160200065905
Page: 160 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5240
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5260
------------	-------------	-----------------	------

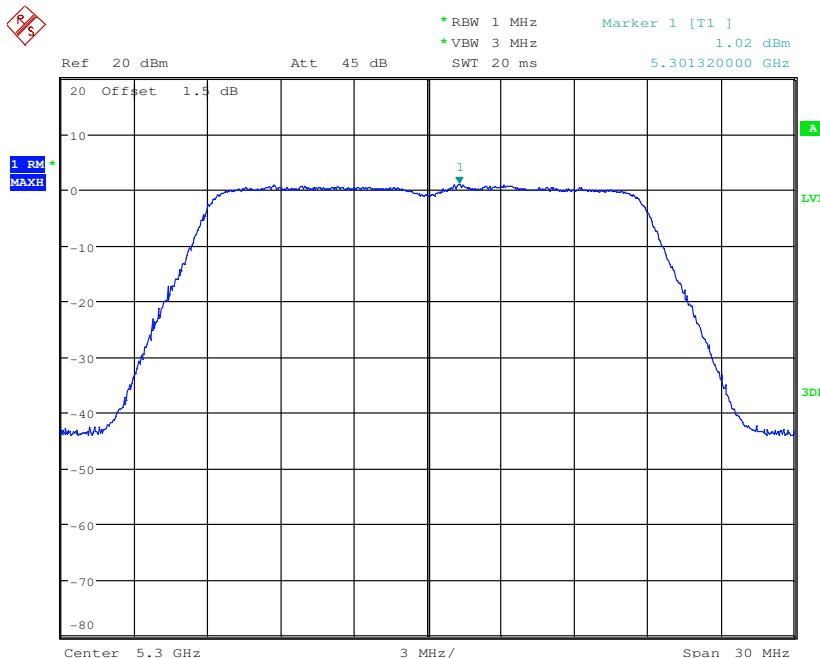


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

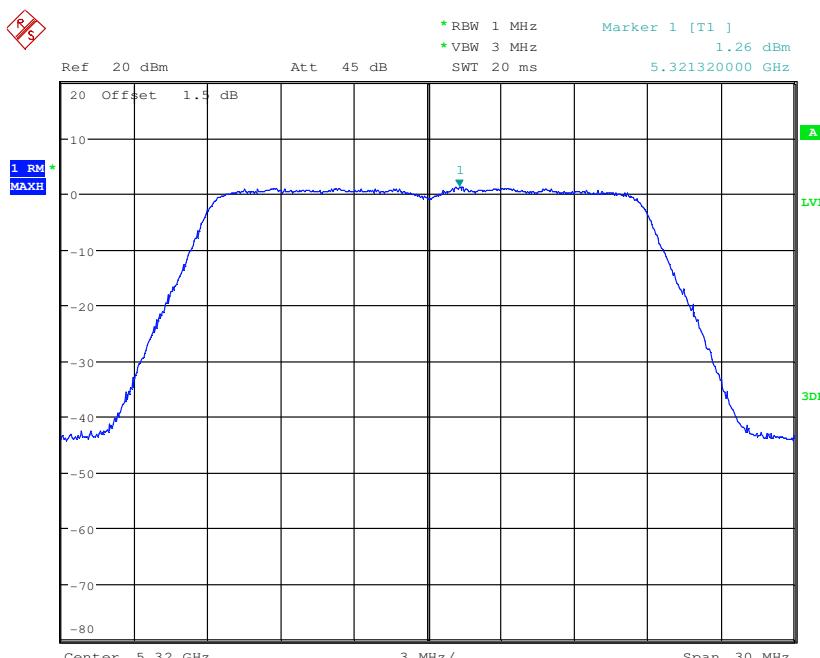


Report No.: SZEM160200065905
 Page: 161 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5300
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5320
------------	-------------	-----------------	------

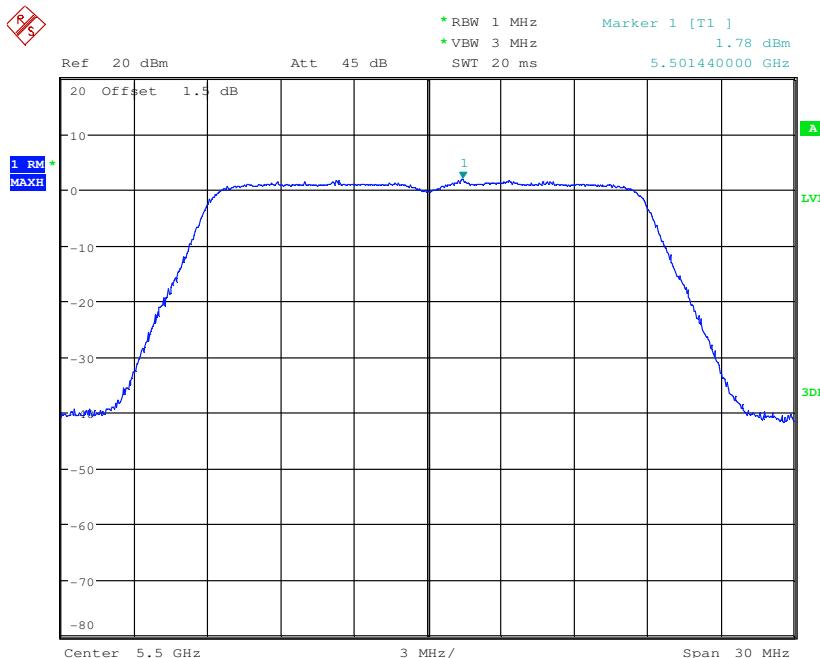


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

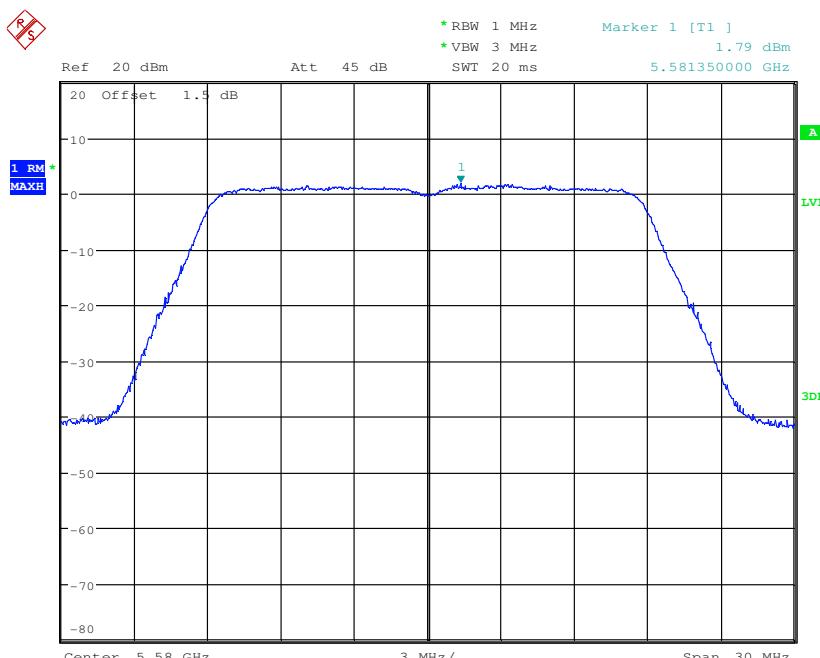


Report No.: SZEM160200065905
Page: 162 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5500
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5580
------------	-------------	-----------------	------

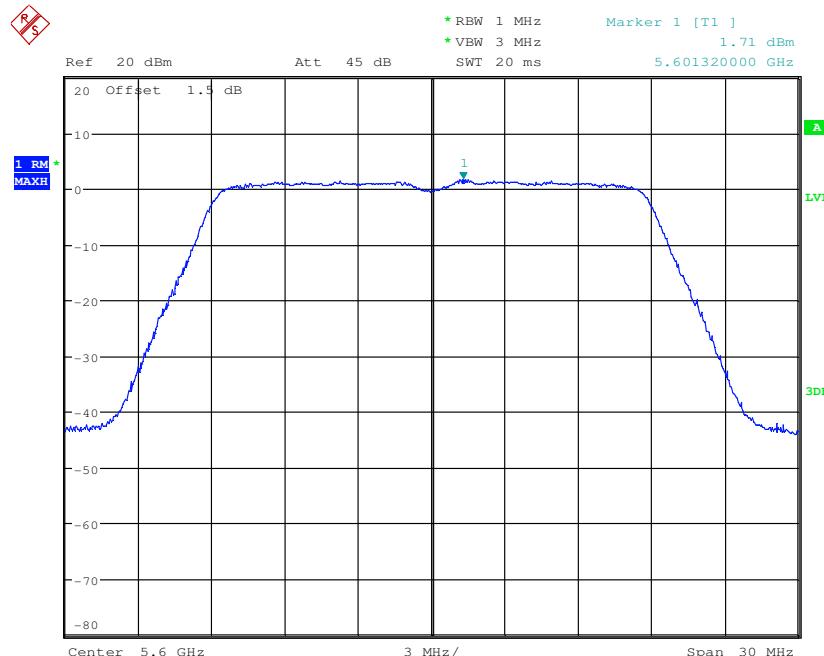


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

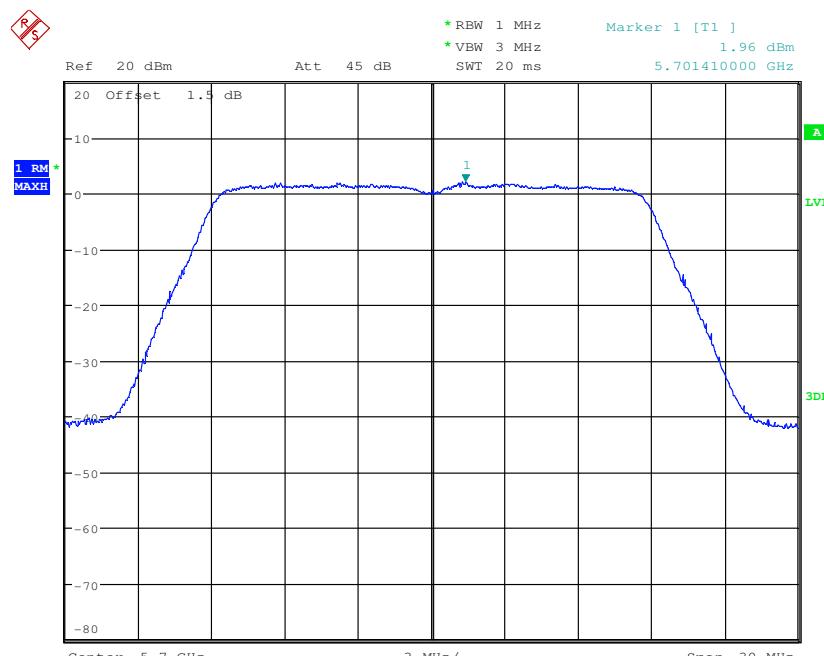


Report No.: SZEM160200065905
Page: 163 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5600
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5700
------------	-------------	-----------------	------

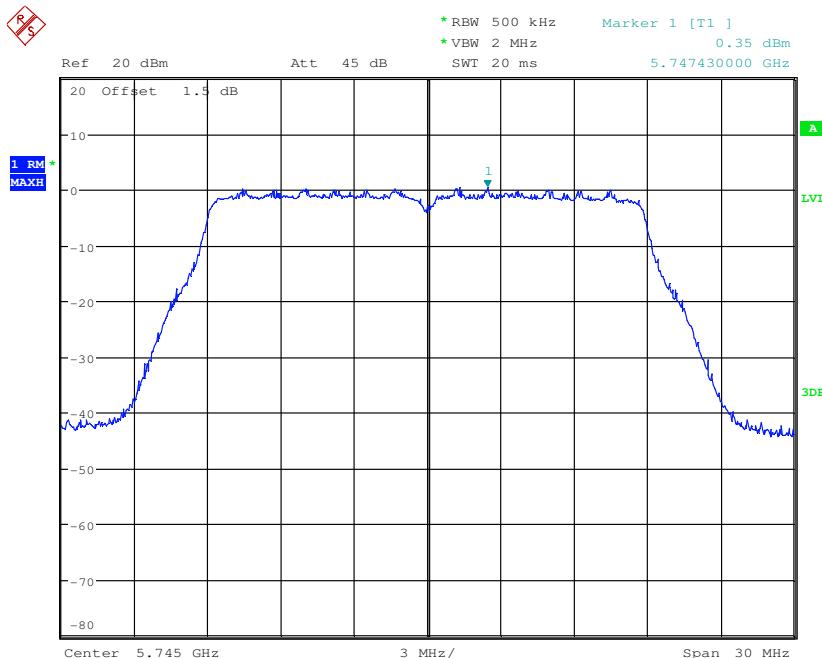


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

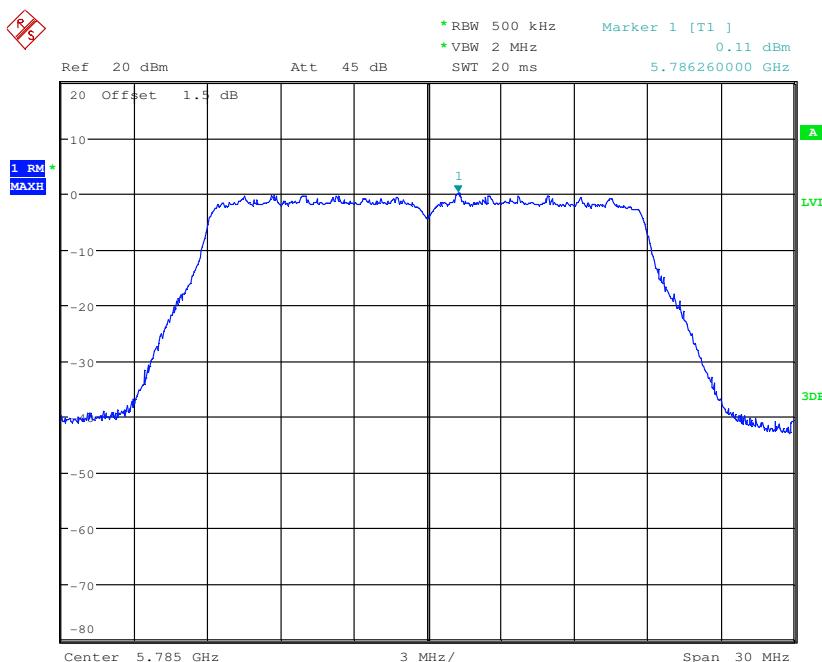


Report No.: SZEM160200065905
Page: 164 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5745
------------	-------------	-----------------	------



Test mode:	802.11 ac20	Frequency(MHz):	5785
------------	-------------	-----------------	------



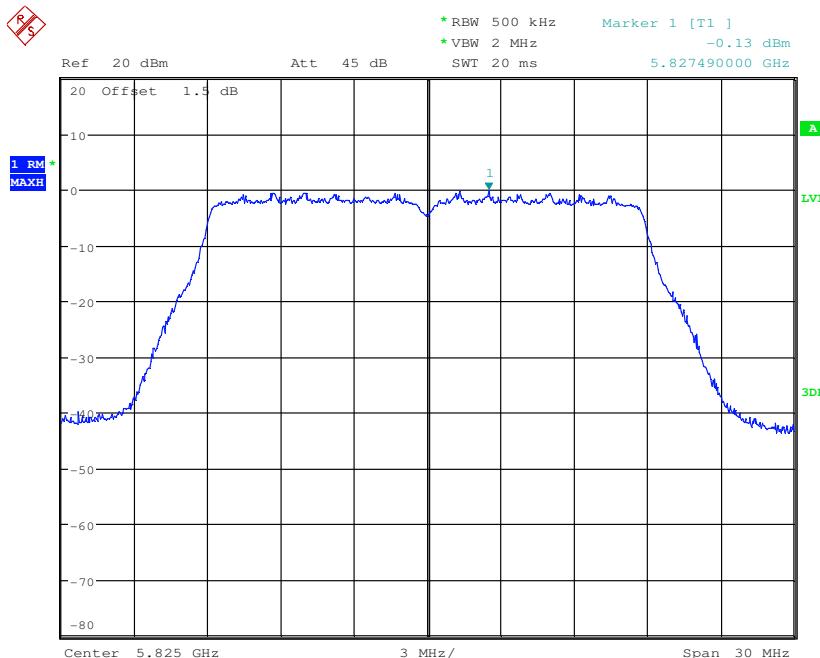
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

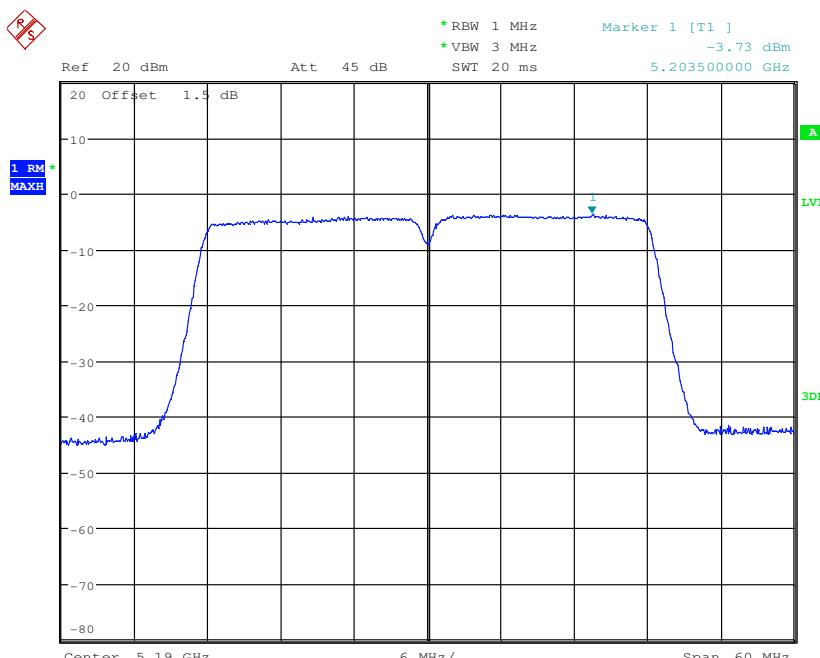


Report No.: SZEM160200065905
Page: 165 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5825
------------	-------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5190
------------	------------	-----------------	------

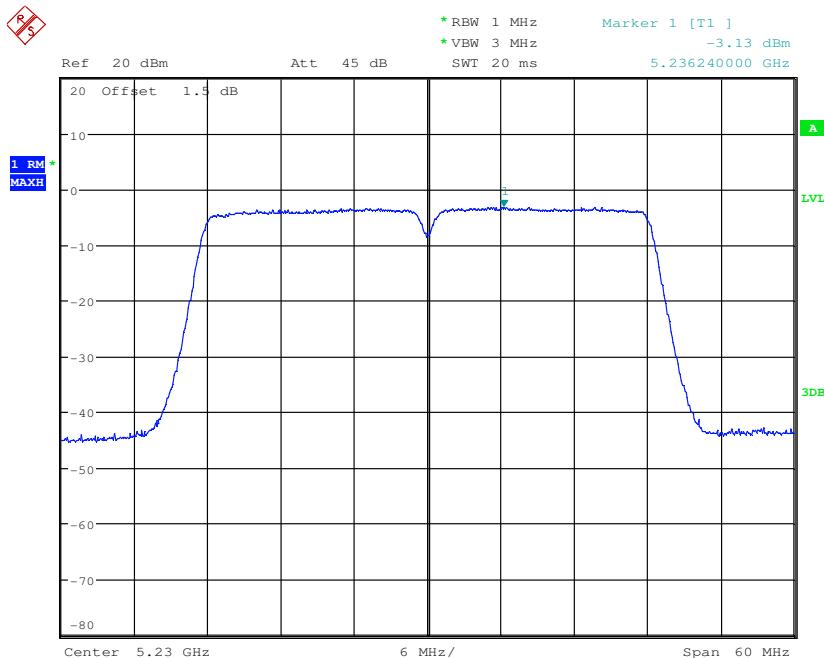


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

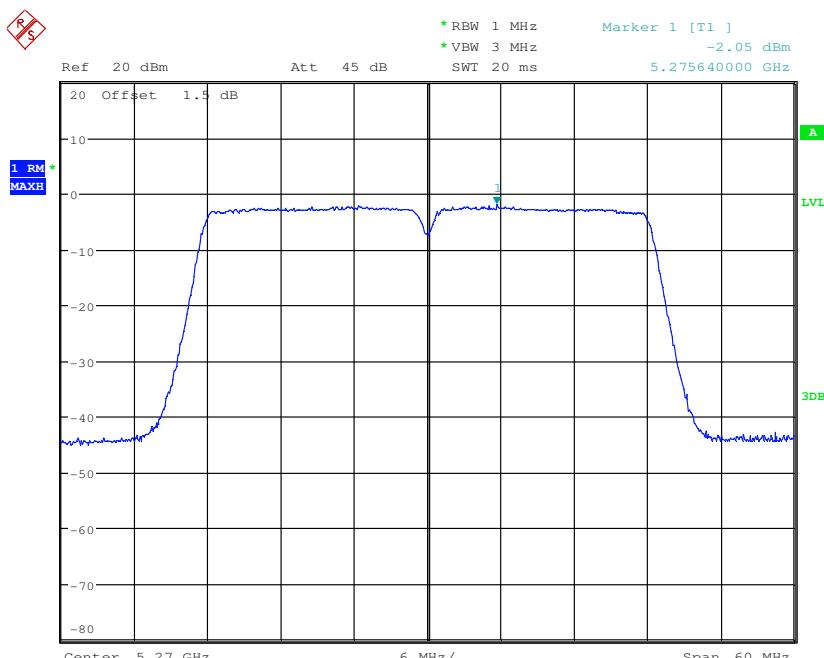


Report No.: SZEM160200065905
Page: 166 of 306

Test mode:	802.11 n40	Frequency(MHz):	5230
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5270
------------	------------	-----------------	------

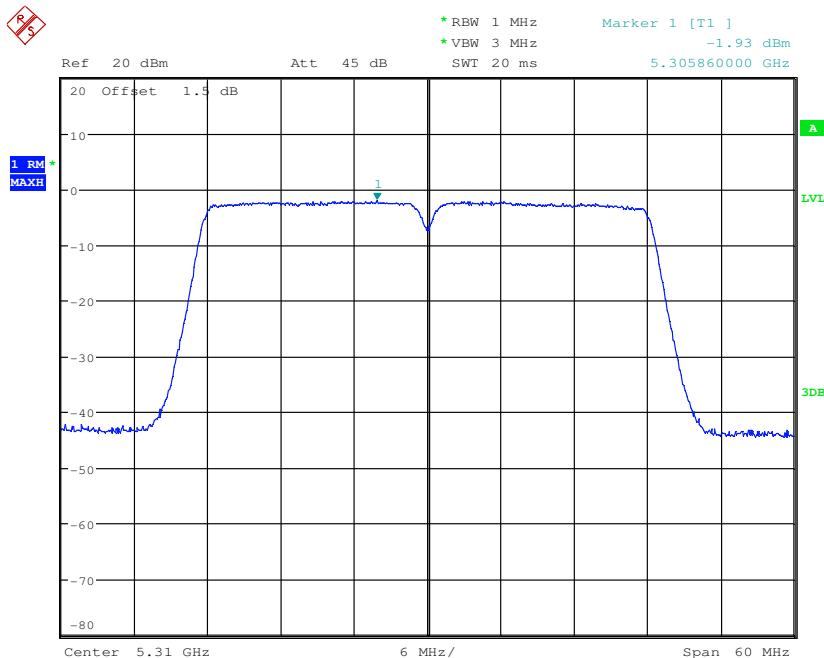


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

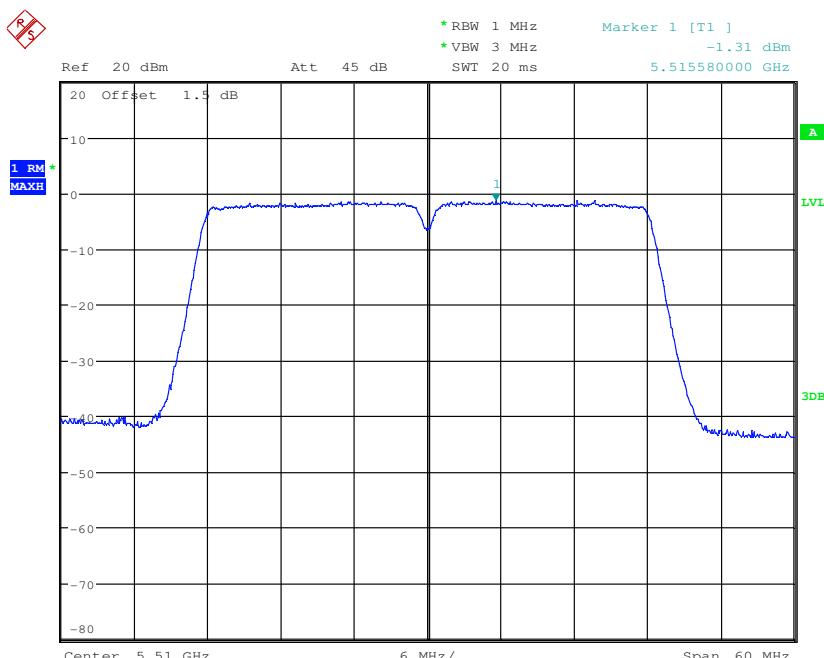


Report No.: SZEM160200065905
Page: 167 of 306

Test mode:	802.11 n40	Frequency(MHz):	5310
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5510
------------	------------	-----------------	------

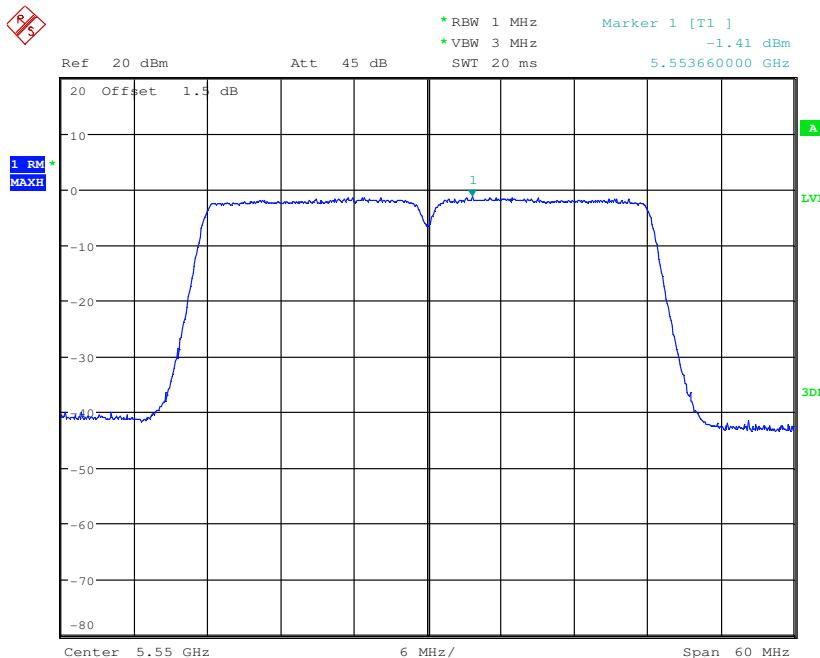


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

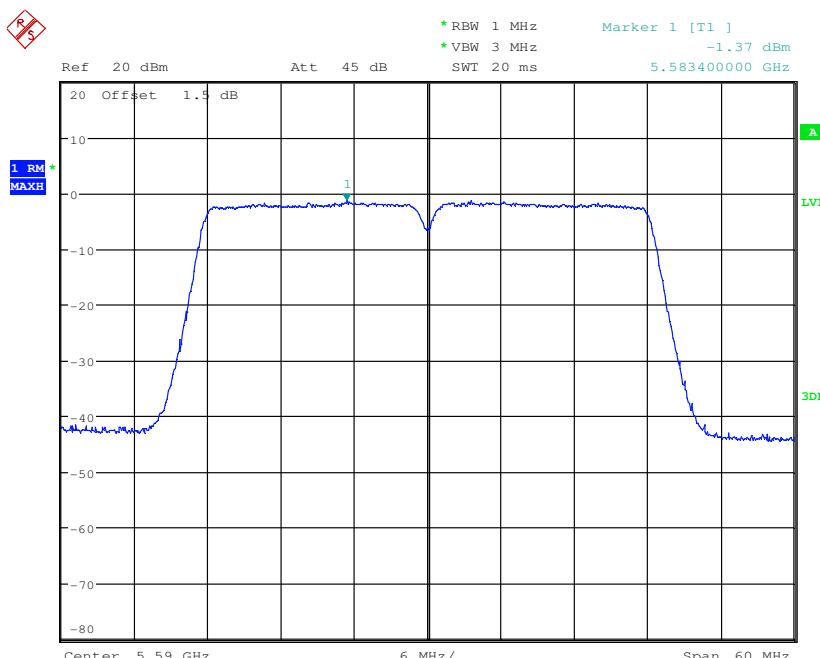


Report No.: SZEM160200065905
Page: 168 of 306

Test mode:	802.11 n40	Frequency(MHz):	5550
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5590
------------	------------	-----------------	------

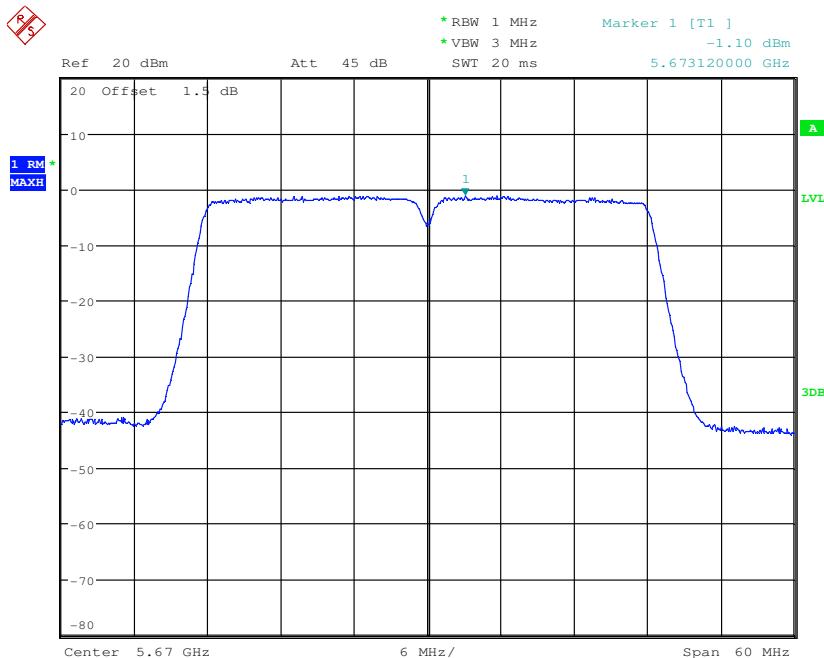


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

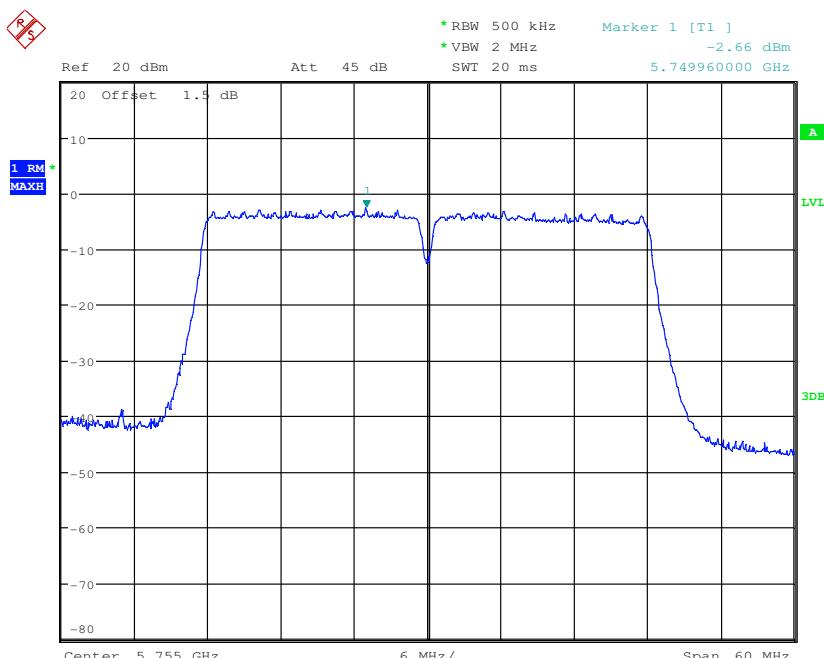


Report No.: SZEM160200065905
Page: 169 of 306

Test mode:	802.11 n40	Frequency(MHz):	5670
------------	------------	-----------------	------



Test mode:	802.11 n40	Frequency(MHz):	5755
------------	------------	-----------------	------

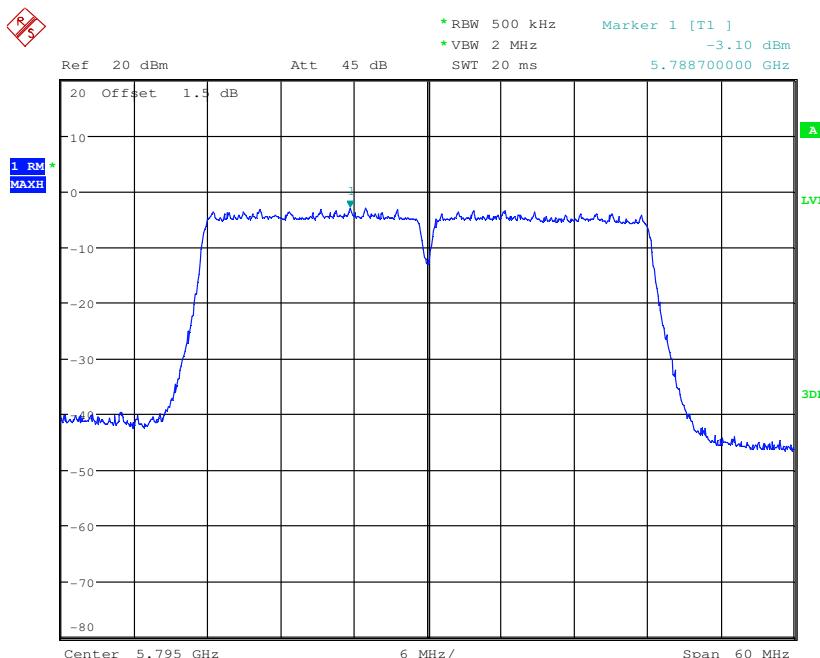


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

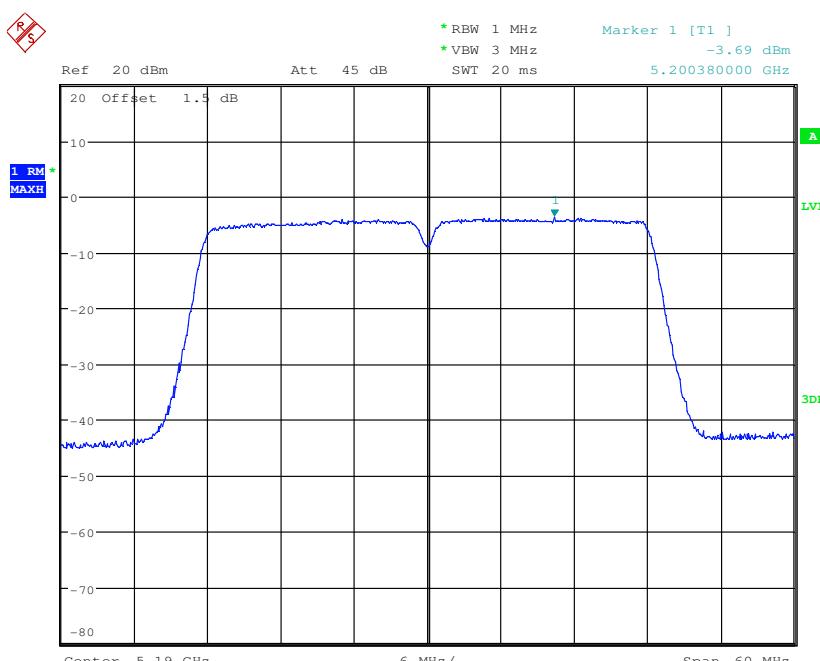


Report No.: SZEM160200065905
Page: 170 of 306

Test mode:	802.11 n40	Frequency(MHz):	5795
------------	------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5190
------------	-------------	-----------------	------

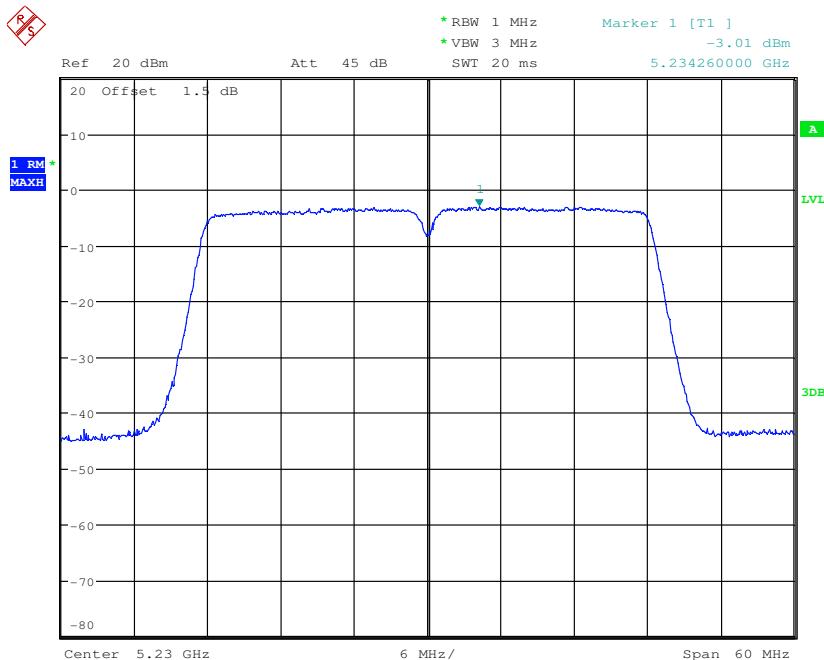


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

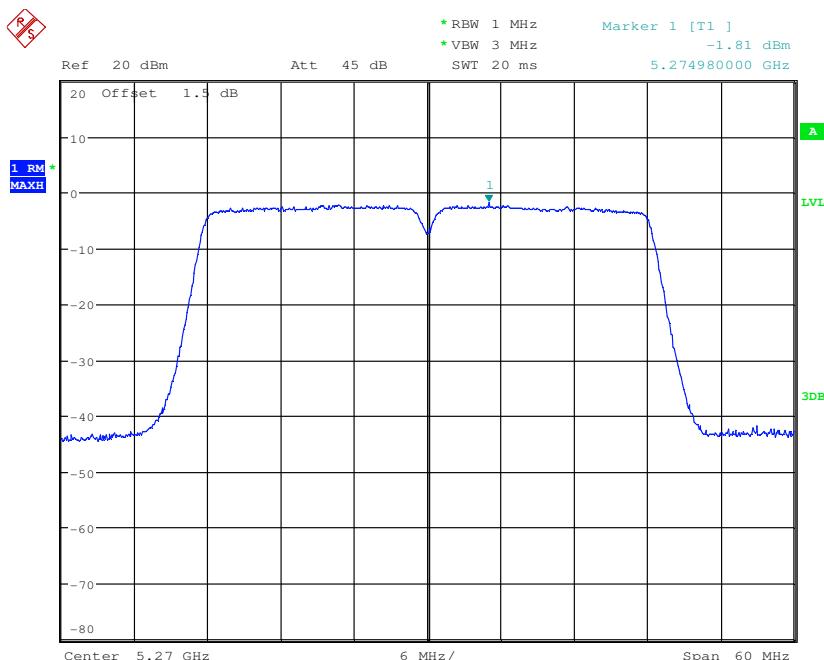


Report No.: SZEM160200065905
Page: 171 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5230
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5270
------------	-------------	-----------------	------

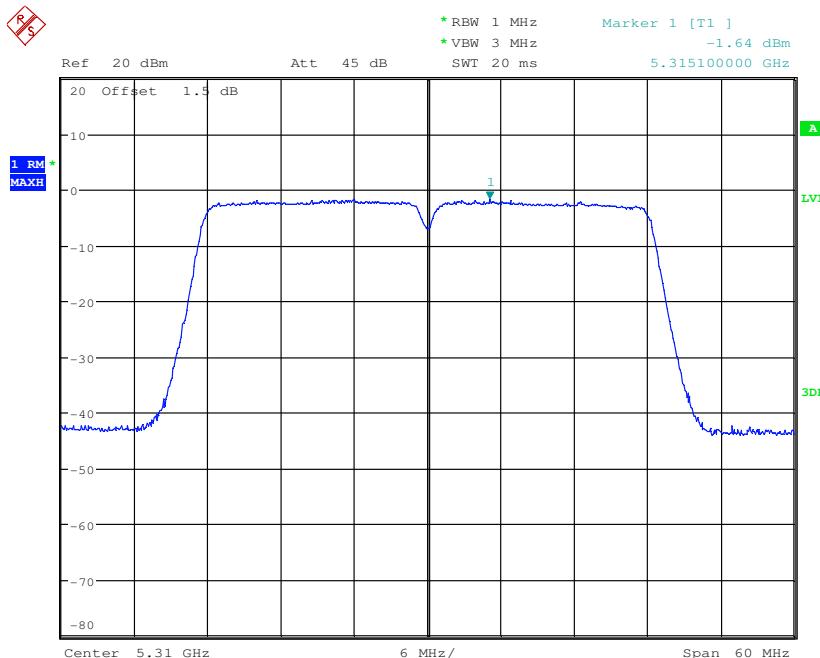


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

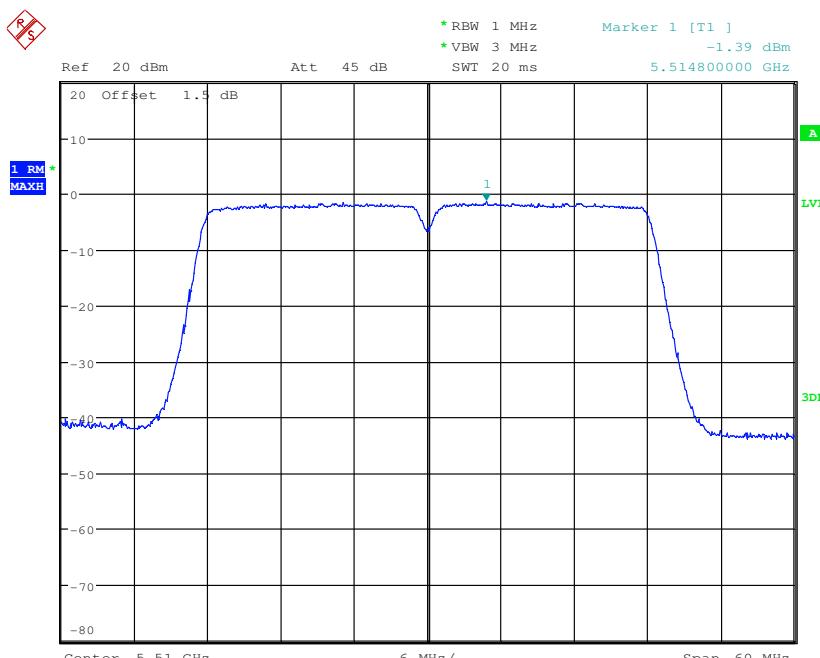


Report No.: SZEM160200065905
Page: 172 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5310
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5510
------------	-------------	-----------------	------

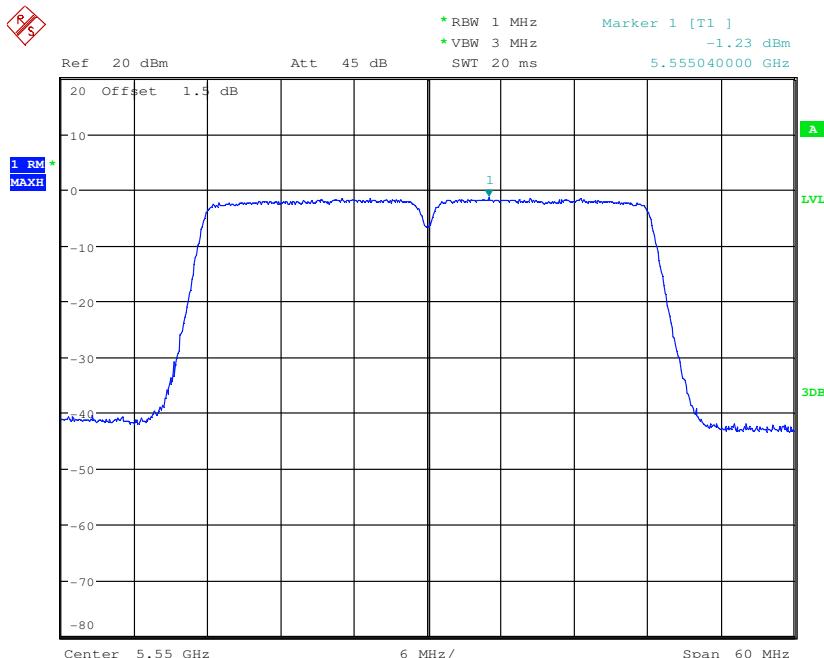


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

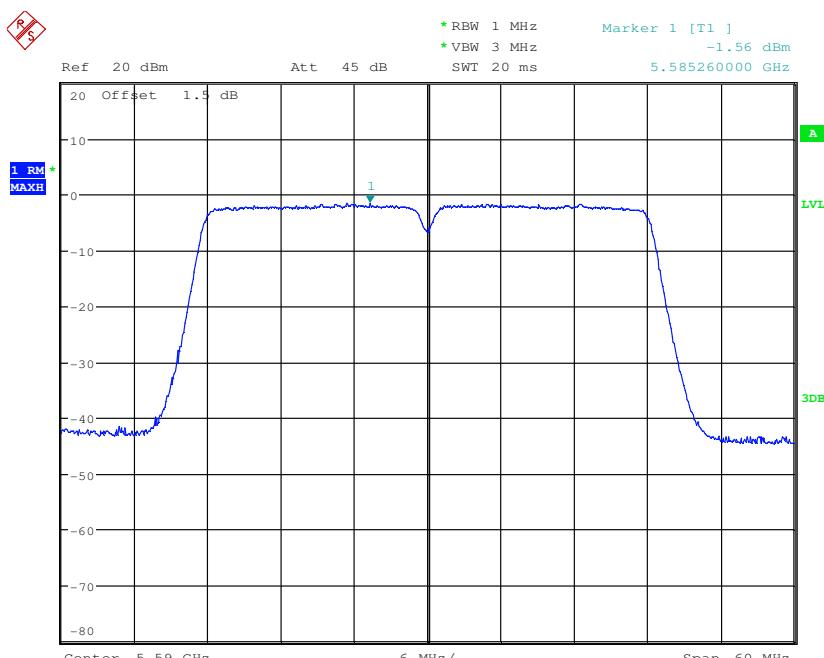


Report No.: SZEM160200065905
Page: 173 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5550
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5590
------------	-------------	-----------------	------

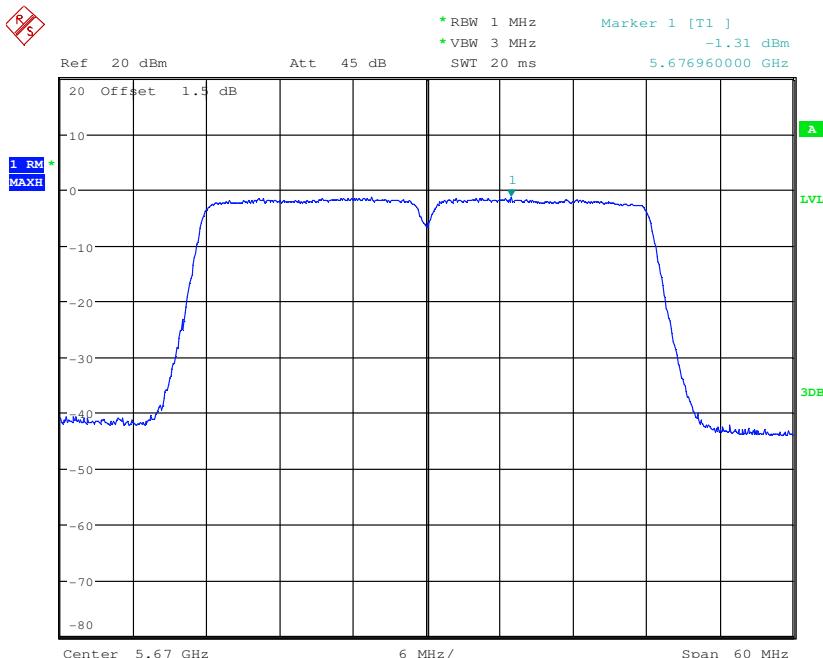


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

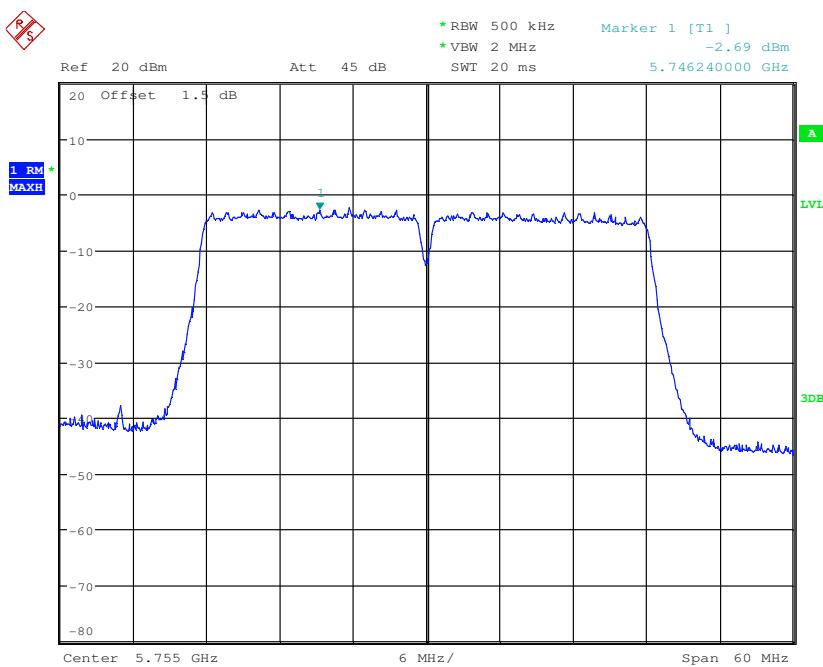


Report No.: SZEM160200065905
Page: 174 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5670
------------	-------------	-----------------	------



Test mode:	802.11 ac40	Frequency(MHz):	5755
------------	-------------	-----------------	------



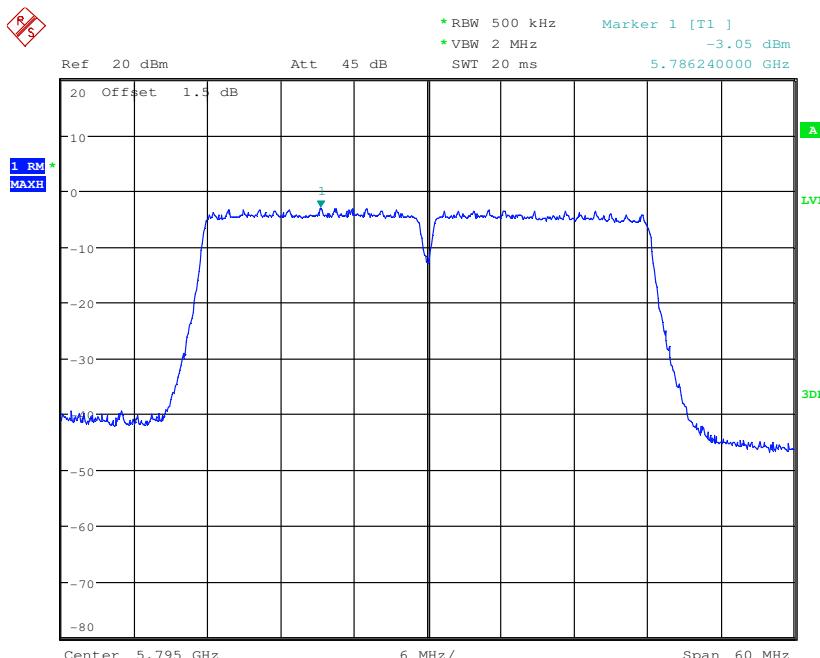
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

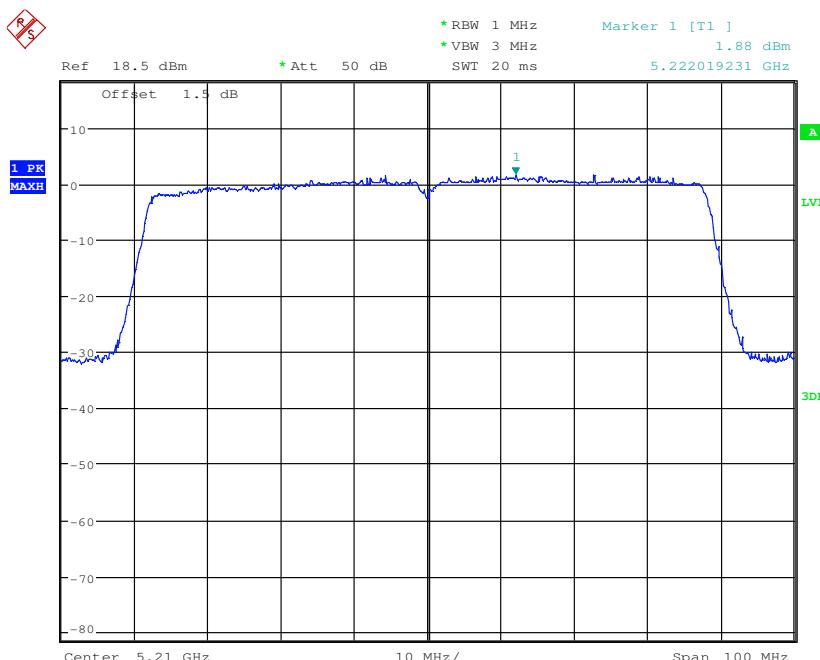


Report No.: SZEM160200065905
Page: 175 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5795
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5210
------------	-------------	-----------------	------

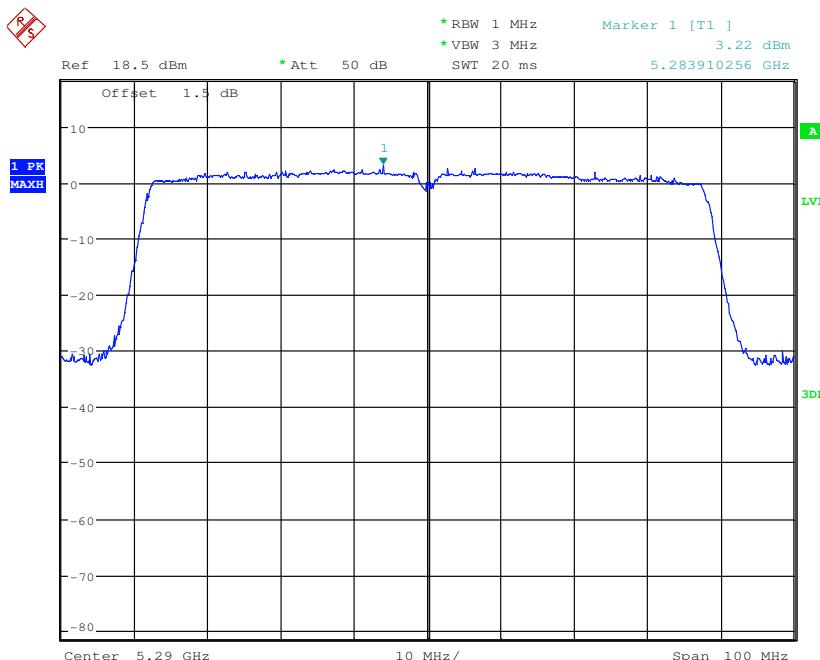


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

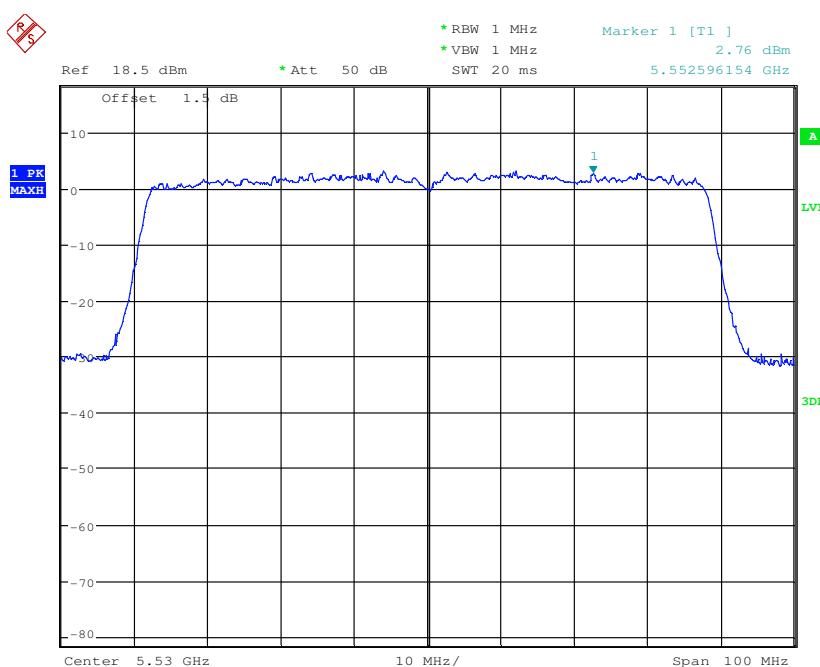


Report No.: SZEM160200065905
Page: 176 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5290
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5530
------------	-------------	-----------------	------

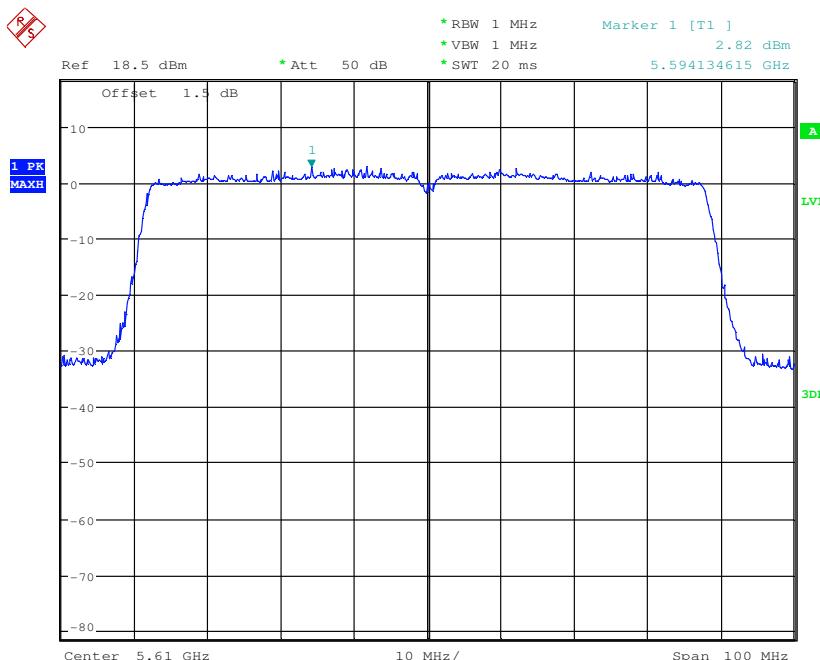


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch

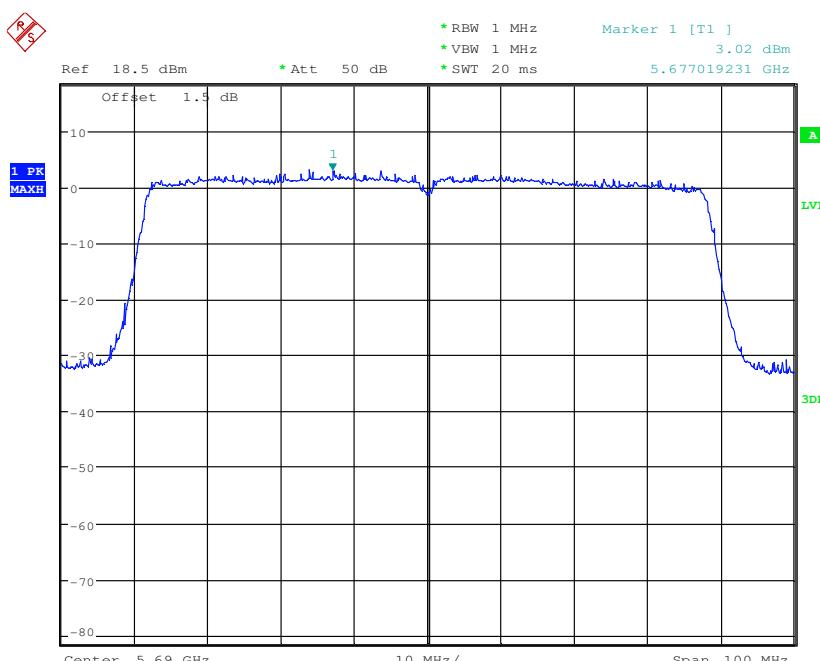


Report No.: SZEM160200065905
 Page: 177 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5610
------------	-------------	-----------------	------



Test mode:	802.11 ac80	Frequency(MHz):	5690
------------	-------------	-----------------	------

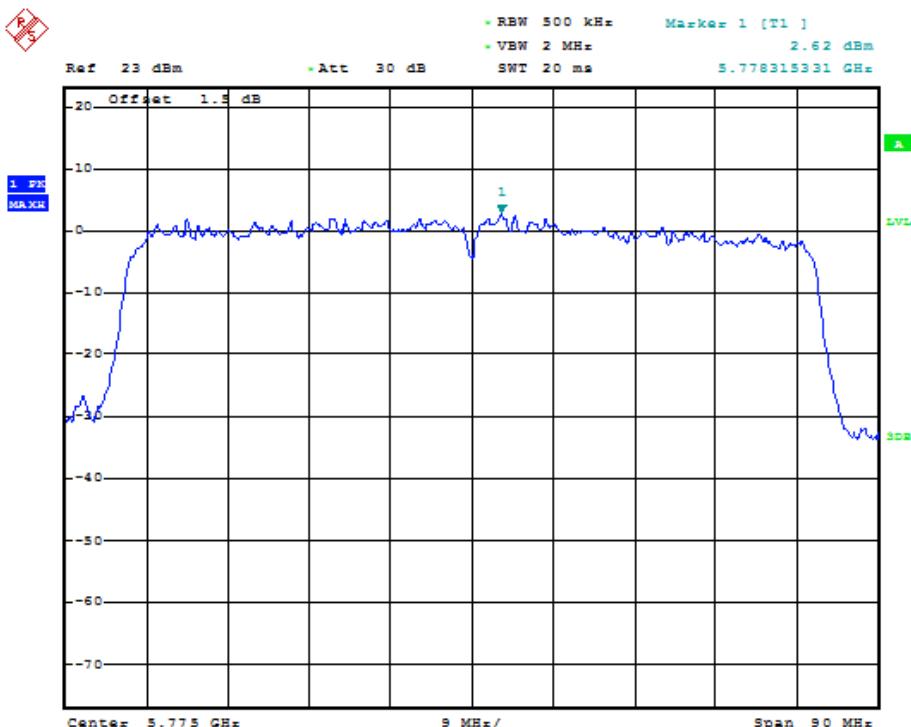


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



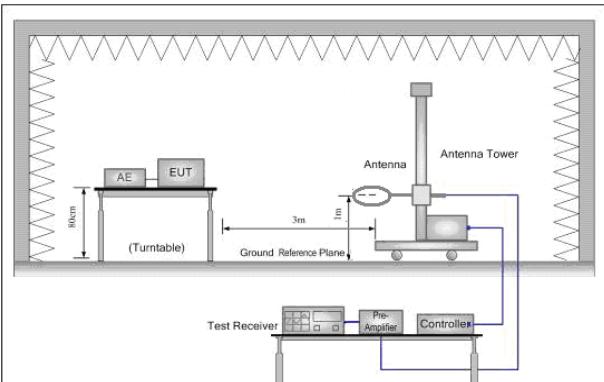
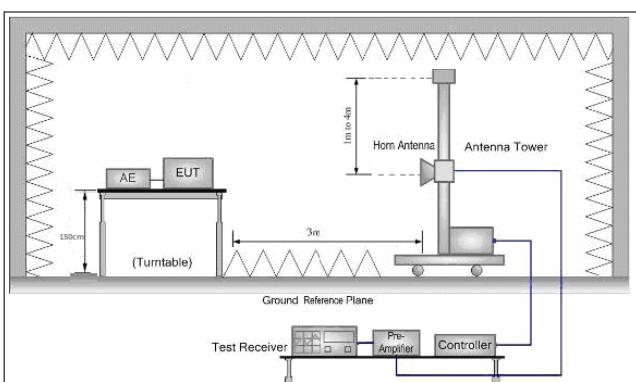
Report No.: SZEM160200065905
Page: 178 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5775
------------	-------------	-----------------	------



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

6.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Test Setup:	
	
Test Procedure:	<ol style="list-style-type: none"> For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Test the EUT in the outermost channels.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	<p>Through Pre-scan, 6Mbps of rate is the worst case of 802.11a; 6.5Mbps of rate is the worst case of 802.11n(HT20); 6.5Mbps of rate is the worst case of 802.11ac 20; 13.5Mbps of rate is the worst case of 802.11n(HT40); 13.5Mbps of rate is the worst case of 802.11ac 40; 29.2Mbps of rate is the worst case of 802.11ac 80.</p> <p>For below 1GHz, through Pre-scan, find the 6Mbps of rate of 802.11a at lowest channel is the worst case.</p> <p>Only the worst case is recorded in the report.</p>

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



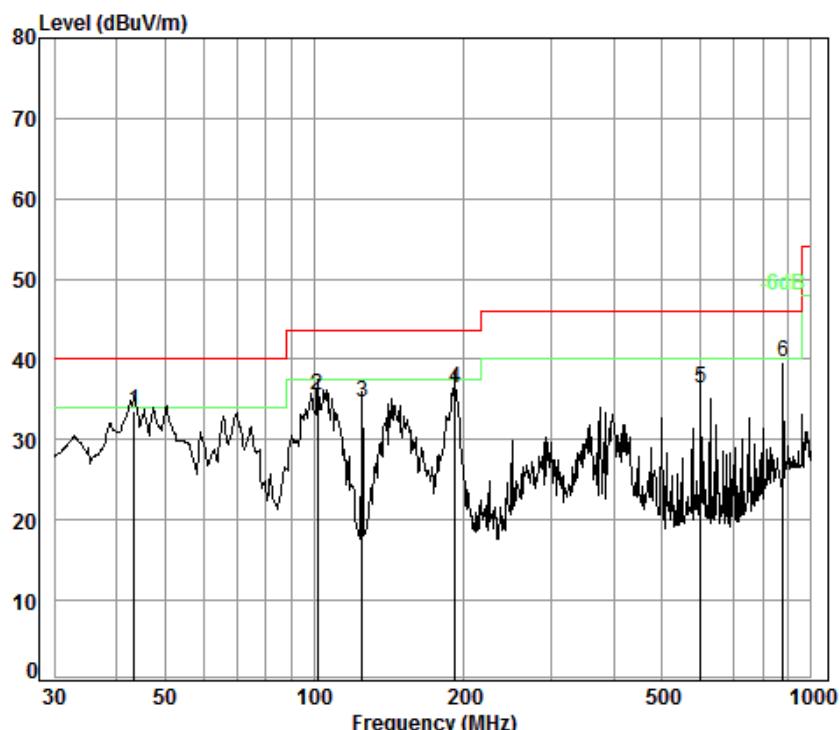
Report No.: SZEM160200065905
Page: 180 of 306

Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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

6.8.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Transmitting mode	Vertical



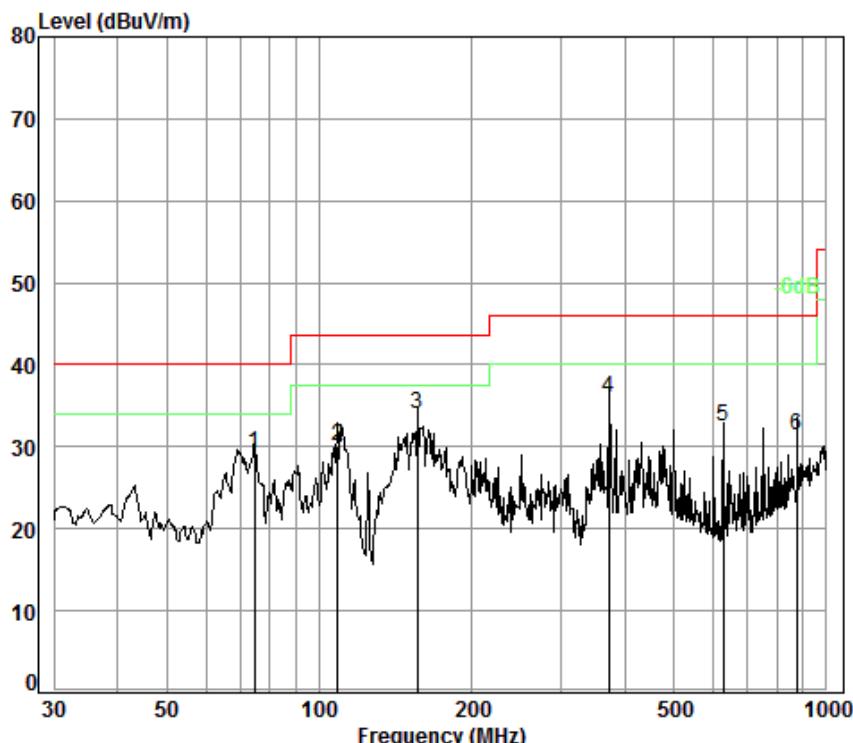
Condition: 3m VERTICAL

Job No. : 0659CR

Test mode: Tx Mode(Wi-Fi)

	Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	43.51	0.68	11.58	27.31	48.56	33.51	40.00	-6.49
2	101.64	1.21	9.03	27.19	52.46	35.51	43.50	-7.99
3	125.01	1.26	8.00	27.04	52.47	34.69	43.50	-8.81
4	191.75	1.39	10.12	26.73	51.65	36.43	43.50	-7.07
5	599.32	2.70	19.68	27.54	41.48	36.32	46.00	-9.68
6 pp	878.32	3.52	22.85	26.89	40.26	39.74	46.00	-6.26

Test mode:	Transmitting mode	Horizontal
------------	-------------------	------------



Condition: 3m HORIZONTAL

Job No. : 0659CR

Test mode: Tx Mode(Wi-Fi)

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level		Limit Line	Over Line			
				MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	74.66	0.94	7.33	27.24	48.26	29.29	40.00	29.29	40.00	-10.71
2	108.65	1.22	8.75	27.14	47.22	30.05	43.50	30.05	43.50	-13.45
3 pp	155.91	1.33	9.54	26.88	50.02	34.01	43.50	34.01	43.50	-9.49
4	372.00	2.12	15.85	26.95	45.03	36.05	46.00	36.05	46.00	-9.95
5	625.08	2.75	20.30	27.51	36.99	32.53	46.00	32.53	46.00	-13.47
6	875.25	3.51	22.80	26.89	31.99	31.41	46.00	31.41	46.00	-14.59



6.8.2 Transmitter emission above 1GHz

Test plot as follows:

Test mode:		802.11a		Frequency(MHz):		5180	Remark:		Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
7678.832	36.04	10.89	37.44	43.41	52.90	74	-21.10	Vertical	
9007.715	37.00	11.80	37.18	39.79	51.41	74	-22.59	Vertical	
10360.000	37.08	12.98	35.96	38.18	52.28	74	-21.72	Vertical	
12751.430	37.98	14.86	37.89	38.20	53.15	74	-20.85	Vertical	
15540.000	40.94	17.07	38.92	34.37	53.46	74	-20.54	Vertical	
17596.580	43.69	20.75	36.98	24.87	52.33	74	-21.67	Vertical	
7678.832	36.04	10.89	37.44	42.17	51.66	74	-22.34	Horizontal	
9007.715	37.00	11.80	37.18	40.26	51.88	74	-22.12	Horizontal	
10360.000	37.08	12.98	35.96	36.59	50.69	74	-23.31	Horizontal	
12775.540	37.99	14.93	37.91	37.11	52.12	74	-21.88	Horizontal	
15540.000	40.94	17.07	38.92	34.60	53.69	74	-20.31	Horizontal	
17563.380	43.63	20.64	36.98	25.43	52.72	74	-21.28	Horizontal	

Test mode:		802.11a		Frequency(MHz):		5220	Remark:		Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
7093.172	35.49	10.64	37.69	42.53	50.97	74	-23.03	Vertical	
8990.716	37.00	11.79	37.19	39.23	50.83	74	-23.17	Vertical	
10440.000	37.10	13.04	35.99	36.11	50.26	74	-23.74	Vertical	
13217.380	38.32	15.61	38.46	37.65	53.12	74	-20.88	Vertical	
15660.000	41.06	17.18	38.73	33.71	53.22	74	-20.78	Vertical	
17864.510	44.06	21.66	36.94	24.22	53.00	74	-21.00	Vertical	
7093.172	35.49	10.64	37.69	41.86	50.30	74	-23.70	Horizontal	
9007.715	37.00	11.80	37.18	39.70	51.32	74	-22.68	Horizontal	
10440.000	37.10	13.04	35.99	37.44	51.59	74	-22.41	Horizontal	
13217.380	38.32	15.61	38.46	37.18	52.65	74	-21.35	Horizontal	
15660.000	41.06	17.18	38.73	34.04	53.55	74	-20.45	Horizontal	
17864.510	44.06	21.66	36.94	24.04	52.82	74	-21.18	Horizontal	

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 184 of 306

Test mode:		802.11a		Frequency(MHz):		5240	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	42.45	51.94	74	-22.06	Vertical
9007.715	37.00	11.80	37.18	38.86	50.48	74	-23.52	Vertical
10480.000	37.10	13.07	36.00	36.20	50.37	74	-23.63	Vertical
12751.430	37.98	14.86	37.89	37.71	52.66	74	-21.34	Vertical
15720.000	41.12	17.24	38.63	33.84	53.57	74	-20.43	Vertical
17864.510	44.06	21.66	36.94	24.74	53.52	74	-20.48	Vertical
7678.832	36.04	10.89	37.44	41.95	51.44	74	-22.56	Horizontal
8990.716	37.00	11.79	37.19	38.74	50.34	74	-23.66	Horizontal
10480.000	37.10	13.07	36.00	34.41	48.58	74	-25.42	Horizontal
12775.540	37.99	14.93	37.91	38.55	53.56	74	-20.44	Horizontal
15720.000	41.12	17.24	38.63	33.83	53.56	74	-20.44	Horizontal
17932.130	44.23	21.89	36.93	24.22	53.41	74	-20.59	Horizontal

Test mode:		802.11a		Frequency(MHz):		5260	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	41.60	50.04	74	-23.96	Vertical
8990.716	37.00	11.79	37.19	39.02	50.62	74	-23.38	Vertical
10520.000	37.10	13.10	36.02	33.82	48.00	74	-26.00	Vertical
12775.540	37.99	14.93	37.91	36.72	51.73	74	-22.27	Vertical
15780.000	41.18	17.29	38.54	32.99	52.92	74	-21.08	Vertical
17797.150	43.90	21.44	36.95	24.25	52.64	74	-21.36	Vertical
7678.832	36.04	10.89	37.44	41.78	51.27	74	-22.73	Horizontal
9007.715	37.00	11.80	37.18	38.82	50.44	74	-23.56	Horizontal
10520.000	37.10	13.10	36.02	34.83	49.01	74	-24.99	Horizontal
12751.430	37.98	14.86	37.89	36.14	51.09	74	-22.91	Horizontal
15780.000	41.18	17.29	38.54	32.77	52.70	74	-21.30	Horizontal
17730.040	43.83	21.21	36.96	25.21	53.29	74	-20.71	Horizontal



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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 185 of 306

Test mode:		802.11a		Frequency(MHz):		5300	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	42.11	50.55	74	-23.45	Vertical
9007.715	37.00	11.80	37.18	39.51	51.13	74	-22.87	Vertical
10600.000	37.10	13.16	36.04	34.55	48.77	74	-25.23	Vertical
13217.380	38.32	15.61	38.46	36.99	52.46	74	-21.54	Vertical
15900.000	41.25	17.41	38.35	32.91	53.22	74	-20.78	Vertical
17730.040	43.83	21.21	36.96	24.97	53.05	74	-20.95	Vertical
7678.832	36.04	10.89	37.44	42.04	51.53	74	-22.47	Horizontal
9007.715	37.00	11.80	37.18	38.57	50.19	74	-23.81	Horizontal
10600.000	37.10	13.16	36.04	35.04	49.26	74	-24.74	Horizontal
13204.910	38.30	15.60	38.44	36.56	52.02	74	-21.98	Horizontal
15900.000	41.25	17.41	38.35	31.94	52.25	74	-21.75	Horizontal
17797.150	43.90	21.44	36.95	24.91	53.30	74	-20.70	Horizontal

Test mode:		802.11a		Frequency(MHz):		5320	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7120.020	35.52	10.65	37.68	41.98	50.47	74	-23.53	Vertical
9007.715	37.00	11.80	37.18	38.71	50.33	74	-23.67	Vertical
10640.000	37.12	13.19	36.06	34.44	48.69	74	-25.31	Vertical
12763.480	37.98	14.89	37.90	36.63	51.60	74	-22.40	Vertical
15960.000	41.28	17.46	38.26	32.32	52.80	74	-21.20	Vertical
17797.150	43.90	21.44	36.95	24.76	53.15	74	-20.85	Vertical
7678.832	36.04	10.89	37.44	41.48	50.97	74	-23.03	Horizontal
9007.715	37.00	11.80	37.18	38.51	50.13	74	-23.87	Horizontal
10640.000	37.12	13.19	36.06	34.63	48.88	74	-25.12	Horizontal
13217.380	38.32	15.61	38.46	36.36	51.83	74	-22.17	Horizontal
15960.000	41.28	17.46	38.26	31.70	52.18	74	-21.82	Horizontal
17730.040	43.83	21.21	36.96	25.38	53.46	74	-20.54	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 186 of 306

Test mode:		802.11a		Frequency(MHz):		5500	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7099.874	35.50	10.64	37.69	41.45	49.90	74	-24.10	Vertical
9007.715	37.00	11.80	37.18	39.41	51.03	74	-22.97	Vertical
11000.000	37.30	13.45	36.18	34.12	48.69	74	-25.31	Vertical
12775.540	37.99	14.93	37.91	36.91	51.92	74	-22.08	Vertical
14650.570	40.18	16.44	39.74	34.75	51.63	74	-22.37	Vertical
16500.000	42.00	17.59	37.62	30.97	52.94	74	-21.06	Vertical
7678.832	36.04	10.89	37.44	42.15	51.64	74	-22.36	Horizontal
9659.786	37.10	12.53	36.28	38.80	52.15	74	-21.85	Horizontal
11000.000	37.30	13.45	36.18	34.28	48.85	74	-25.15	Horizontal
12751.430	37.98	14.86	37.89	36.86	51.81	74	-22.19	Horizontal
14512.850	40.01	16.40	39.72	36.11	52.80	74	-21.20	Horizontal
16500.000	42.00	17.59	37.62	30.74	52.71	74	-21.29	Horizontal

Test mode:		802.11a		Frequency(MHz):		5600	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	42.37	50.81	74	-23.19	Vertical
9007.715	37.00	11.80	37.18	39.08	50.70	74	-23.30	Vertical
11200.000	37.30	13.68	36.39	34.79	49.38	74	-24.62	Vertical
12775.540	37.99	14.93	37.91	36.77	51.78	74	-22.22	Vertical
14512.850	40.01	16.40	39.72	36.11	52.80	74	-21.20	Vertical
16800.000	42.50	18.24	37.28	29.49	52.95	74	-21.05	Vertical
7678.832	36.04	10.89	37.44	41.29	50.78	74	-23.22	Horizontal
9007.715	37.00	11.80	37.18	38.87	50.49	74	-23.51	Horizontal
11200.000	37.30	13.68	36.39	34.83	49.42	74	-24.58	Horizontal
13192.440	38.29	15.60	38.42	37.22	52.69	74	-21.31	Horizontal
15157.260	40.66	16.70	39.53	34.20	52.03	74	-21.97	Horizontal
16800.000	42.50	18.24	37.28	30.42	53.88	74	-20.12	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 187 of 306

Test mode:		802.11a		Frequency(MHz):		5700	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7133.481	35.53	10.65	37.67	40.91	49.42	74	-24.58	Vertical
9659.786	37.10	12.53	36.28	40.16	53.51	74	-20.49	Vertical
11395.880	37.40	13.90	36.58	35.70	50.42	74	-23.58	Vertical
13179.990	38.28	15.60	38.40	36.21	51.69	74	-22.31	Vertical
14929.940	40.47	16.52	39.78	35.69	52.90	74	-21.10	Vertical
17105.000	42.91	19.04	37.04	28.67	53.58	74	-20.42	Vertical
7671.583	36.04	10.88	37.44	41.83	51.31	74	-22.69	Horizontal
9659.786	37.10	12.53	36.28	39.60	52.95	74	-21.05	Horizontal
11395.880	37.40	13.90	36.58	36.05	50.77	74	-23.23	Horizontal
13217.380	38.32	15.61	38.46	36.59	52.06	74	-21.94	Horizontal
15157.260	40.66	16.70	39.53	35.68	53.51	74	-20.49	Horizontal
17105.000	42.91	19.04	37.04	28.88	53.79	74	-20.21	Horizontal

Test mode:		802.11a		Frequency(MHz):		5745	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	42.18	51.67	74	-22.33	Vertical
9659.786	37.10	12.53	36.28	40.38	53.73	74	-20.27	Vertical
11490.000	37.45	14.01	36.68	35.08	49.86	74	-24.14	Vertical
12775.540	37.99	14.93	37.91	37.61	52.62	74	-21.38	Vertical
15128.660	40.63	16.67	39.58	35.58	53.30	74	-20.70	Vertical
17235.000	43.05	19.50	37.03	28.28	53.80	74	-20.20	Vertical
7678.832	36.04	10.89	37.44	43.17	52.66	74	-21.34	Horizontal
9659.786	37.10	12.53	36.28	40.24	53.59	74	-20.41	Horizontal
11490.000	37.45	14.01	36.68	34.93	49.71	74	-24.29	Horizontal
13217.380	38.32	15.61	38.46	35.76	51.23	74	-22.77	Horizontal
15504.760	40.91	17.03	38.97	33.73	52.70	74	-21.30	Horizontal
17235.000	43.05	19.50	37.03	28.38	53.90	74	-20.10	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 188 of 306

Test mode:		802.11a		Frequency(MHz):		5785	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	42.42	50.86	74	-23.14	Vertical
8990.716	37.00	11.79	37.19	39.21	50.81	74	-23.19	Vertical
11570.000	37.49	14.09	36.75	35.20	50.03	74	-23.97	Vertical
13192.440	38.29	15.60	38.42	37.29	52.76	74	-21.24	Vertical
15157.260	40.66	16.70	39.53	35.20	53.03	74	-20.97	Vertical
17355.000	43.23	19.92	37.01	27.06	53.20	74	-20.80	Vertical
7106.583	35.51	10.64	37.68	42.03	50.50	74	-23.50	Horizontal
9007.715	37.00	11.80	37.18	40.72	52.34	74	-21.66	Horizontal
11570.000	37.49	14.09	36.75	34.07	48.90	74	-25.10	Horizontal
13192.440	38.29	15.60	38.42	36.48	51.95	74	-22.05	Horizontal
15157.260	40.66	16.70	39.53	34.24	52.07	74	-21.93	Horizontal
17355.000	43.23	19.92	37.01	27.24	53.38	74	-20.62	Horizontal

Test mode:		802.11a		Frequency(MHz):		5825	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	43.01	51.45	74	-22.55	Vertical
8990.716	37.00	11.79	37.19	38.95	50.55	74	-23.45	Vertical
11650.000	37.50	14.18	36.83	33.76	48.61	74	-25.39	Vertical
13192.440	38.29	15.60	38.42	36.37	51.84	74	-22.16	Vertical
15157.260	40.66	16.70	39.53	35.39	53.22	74	-20.78	Vertical
17475.000	43.45	20.33	36.99	26.21	53.00	74	-21.00	Vertical
7678.832	36.04	10.89	37.44	41.99	51.48	74	-22.52	Horizontal
8990.716	37.00	11.79	37.19	39.11	50.71	74	-23.29	Horizontal
11650.000	37.50	14.18	36.83	34.78	49.63	74	-24.37	Horizontal
13192.440	38.29	15.60	38.42	36.77	52.24	74	-21.76	Horizontal
15800.410	41.20	17.31	38.51	33.46	53.46	74	-20.54	Horizontal
17475.000	43.45	20.33	36.99	27.14	53.93	74	-20.07	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 189 of 306

Test mode:		802.11 n20		Frequency(MHz):		5180	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	43.41	52.90	74	-21.10	Vertical
9007.715	37.00	11.80	37.18	39.79	51.41	74	-22.59	Vertical
10360.000	37.08	12.98	35.96	37.18	51.28	74	-22.72	Vertical
12751.430	37.98	14.86	37.89	38.20	53.15	74	-20.85	Vertical
15540.000	40.94	17.07	38.92	34.37	53.46	74	-20.54	Vertical
17797.150	43.90	21.44	36.95	23.75	52.14	74	-21.86	Vertical
7214.789	35.59	10.68	37.63	40.98	49.62	74	-24.38	Horizontal
9007.715	37.00	11.80	37.18	40.26	51.88	74	-22.12	Horizontal
10360.000	37.08	12.98	35.96	36.59	50.69	74	-23.31	Horizontal
13179.990	38.28	15.60	38.40	36.20	51.68	74	-22.32	Horizontal
15540.000	40.94	17.07	38.92	34.60	53.69	74	-20.31	Horizontal
17864.510	44.06	21.66	36.94	24.37	53.15	74	-20.85	Horizontal

Test mode:		802.11 n20		Frequency(MHz):		5220	Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	41.83	51.32	74	-22.68	Vertical
8889.395	36.94	11.80	37.20	34.76	46.30	74	-27.70	Vertical
10440.000	37.10	13.04	35.99	35.11	49.26	74	-24.74	Vertical
12751.430	37.98	14.86	37.89	36.78	51.73	74	-22.27	Vertical
15660.000	41.06	17.18	38.73	33.71	53.22	74	-20.78	Vertical
17864.510	44.06	21.66	36.94	24.22	53.00	74	-21.00	Vertical
7093.172	35.49	10.64	37.69	41.86	50.30	74	-23.70	Horizontal
9007.715	37.00	11.80	37.18	39.70	51.32	74	-22.68	Horizontal
10440.000	37.10	13.04	35.99	35.44	49.59	74	-24.41	Horizontal
13217.380	38.32	15.61	38.46	37.18	52.65	74	-21.35	Horizontal
15660.000	41.06	17.18	38.73	34.04	53.55	74	-20.45	Horizontal
17864.510	44.06	21.66	36.94	24.04	52.82	74	-21.18	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 190 of 306

Test mode:		802.11 n20		Frequency(MHz):		5240	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	42.76	51.20	74	-22.80	Vertical
9007.715	37.00	11.80	37.18	38.86	50.48	74	-23.52	Vertical
10480.000	37.10	13.07	36.00	34.20	48.37	74	-25.63	Vertical
12751.430	37.98	14.86	37.89	37.71	52.66	74	-21.34	Vertical
15720.000	41.12	17.24	38.63	33.84	53.57	74	-20.43	Vertical
17864.510	44.06	21.66	36.94	23.74	52.52	74	-21.48	Vertical
7678.832	36.04	10.89	37.44	41.95	51.44	74	-22.56	Horizontal
8990.716	37.00	11.79	37.19	38.74	50.34	74	-23.66	Horizontal
10480.000	37.10	13.07	36.00	34.41	48.58	74	-25.42	Horizontal
13217.380	38.32	15.61	38.46	36.45	51.92	74	-22.08	Horizontal
15720.000	41.12	17.24	38.63	33.83	53.56	74	-20.44	Horizontal
17932.130	44.23	21.89	36.93	23.22	52.41	74	-21.59	Horizontal

Test mode:		802.11 n20		Frequency(MHz):		5260	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7664.340	36.03	10.88	37.44	42.65	52.12	74	-21.88	Vertical
8990.716	37.00	11.79	37.19	39.40	51.00	74	-23.00	Vertical
10520.000	37.10	13.10	36.02	34.37	48.55	74	-25.45	Vertical
13217.380	38.32	15.61	38.46	36.77	52.24	74	-21.76	Vertical
15780.000	41.18	17.29	38.54	33.09	53.02	74	-20.98	Vertical
17730.040	43.83	21.21	36.96	25.80	53.88	74	-20.12	Vertical
7093.172	35.49	10.64	37.69	42.11	50.55	74	-23.45	Horizontal
9007.715	37.00	11.80	37.18	39.03	50.65	74	-23.35	Horizontal
10520.000	37.10	13.10	36.02	35.62	49.80	74	-24.20	Horizontal
12751.430	37.98	14.86	37.89	37.42	52.37	74	-21.63	Horizontal
15780.000	41.18	17.29	38.54	32.40	52.33	74	-21.67	Horizontal
17763.560	43.86	21.32	36.95	25.55	53.78	74	-20.22	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 191 of 306

Test mode:		802.11 n20		Frequency(MHz):		5300	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	42.54	50.98	74	-23.02	Vertical
9007.715	37.00	11.80	37.18	39.45	51.07	74	-22.93	Vertical
10600.000	37.10	13.16	36.04	33.42	47.64	74	-26.36	Vertical
12751.430	37.98	14.86	37.89	37.20	52.15	74	-21.85	Vertical
15900.000	41.25	17.41	38.35	31.85	52.16	74	-21.84	Vertical
17830.800	43.98	21.55	36.94	24.90	53.49	74	-20.51	Vertical
7664.340	36.03	10.88	37.44	42.78	52.25	74	-21.75	Horizontal
9007.715	37.00	11.80	37.18	38.88	50.50	74	-23.50	Horizontal
10600.000	37.10	13.16	36.04	33.73	47.95	74	-26.05	Horizontal
13217.380	38.32	15.61	38.46	35.81	51.28	74	-22.72	Horizontal
15900.000	41.25	17.41	38.35	31.73	52.04	74	-21.96	Horizontal
17797.150	43.90	21.44	36.95	24.53	52.92	74	-21.08	Horizontal

Test mode:		802.11 n20		Frequency(MHz):		5320	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7133.481	35.53	10.65	37.67	40.62	49.13	74	-24.87	Vertical
9007.715	37.00	11.80	37.18	39.57	51.19	74	-22.81	Vertical
10640.000	37.12	13.19	36.06	34.20	48.45	74	-25.55	Vertical
13192.440	38.29	15.60	38.42	35.63	51.10	74	-22.90	Vertical
15960.000	41.28	17.46	38.26	32.03	52.51	74	-21.49	Vertical
17864.510	44.06	21.66	36.94	24.97	53.75	74	-20.25	Vertical
7664.340	36.03	10.88	37.44	41.67	51.14	74	-22.86	Horizontal
9007.715	37.00	11.80	37.18	38.87	50.49	74	-23.51	Horizontal
10640.000	37.12	13.19	36.06	35.60	49.85	74	-24.15	Horizontal
13093.140	38.19	15.57	38.27	37.26	52.75	74	-21.25	Horizontal
15960.000	41.28	17.46	38.26	32.03	52.51	74	-21.49	Horizontal
17830.800	43.98	21.55	36.94	24.35	52.94	74	-21.06	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 192 of 306

Test mode:		802.11 n20		Frequency(MHz):		5500	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7106.583	35.51	10.64	37.68	42.47	50.94	74	-23.06	Vertical
9007.715	37.00	11.80	37.18	39.59	51.21	74	-22.79	Vertical
11000.000	37.30	13.45	36.18	33.23	47.80	74	-26.20	Vertical
12751.430	37.98	14.86	37.89	37.65	52.60	74	-21.40	Vertical
14845.570	40.42	16.50	39.77	35.73	52.88	74	-21.12	Vertical
16500.000	42.00	17.59	37.62	31.41	53.38	74	-20.62	Vertical
7678.832	36.04	10.89	37.44	41.74	51.23	74	-22.77	Horizontal
9659.786	37.10	12.53	36.28	39.56	52.91	74	-21.09	Horizontal
11000.000	37.30	13.45	36.18	33.68	48.25	74	-25.75	Horizontal
12536.480	37.84	14.25	37.69	37.51	51.91	74	-22.09	Horizontal
14761.680	40.34	16.47	39.76	35.30	52.35	74	-21.65	Horizontal
16500.000	42.00	17.59	37.62	31.37	53.34	74	-20.66	Horizontal

Test mode:		802.11 n20		Frequency(MHz):		5600	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	41.64	51.13	74	-22.87	Vertical
9007.715	37.00	11.80	37.18	39.29	50.91	74	-23.09	Vertical
11200.000	37.30	13.68	36.39	34.77	49.36	74	-24.64	Vertical
12751.430	37.98	14.86	37.89	37.95	52.90	74	-21.10	Vertical
14512.850	40.01	16.40	39.72	36.11	52.80	74	-21.20	Vertical
16800.000	42.50	18.24	37.28	29.56	53.02	74	-20.98	Vertical
7187.584	35.59	10.67	37.65	38.93	47.54	74	-26.46	Horizontal
8990.716	37.00	11.79	37.19	39.48	51.08	74	-22.92	Horizontal
11200.000	37.30	13.68	36.39	34.65	49.24	74	-24.76	Horizontal
13192.440	38.29	15.60	38.42	36.26	51.73	74	-22.27	Horizontal
15128.660	40.63	16.67	39.58	35.45	53.17	74	-20.83	Horizontal
16800.000	42.50	18.24	37.28	29.95	53.41	74	-20.59	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 193 of 306

Test mode:		802.11 n20		Frequency(MHz):		5700	Remark:		Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
7228.430	35.59	10.69	37.63	40.08	48.73	74	-25.27	Vertical	
9007.715	37.00	11.80	37.18	38.78	50.40	74	-23.60	Vertical	
11400.000	37.40	13.91	36.59	35.85	50.57	74	-23.43	Vertical	
13093.140	38.19	15.57	38.27	35.93	51.42	74	-22.58	Vertical	
15157.260	40.66	16.70	39.53	34.21	52.04	74	-21.96	Vertical	
17100.000	42.90	19.02	37.05	28.23	53.10	74	-20.90	Vertical	
7678.832	36.04	10.89	37.44	42.90	52.39	74	-21.61	Horizontal	
8990.716	37.00	11.79	37.19	39.76	51.36	74	-22.64	Horizontal	
11400.000	37.40	13.91	36.59	34.88	49.60	74	-24.40	Horizontal	
13217.380	38.32	15.61	38.46	36.95	52.42	74	-21.58	Horizontal	
15071.610	40.57	16.61	39.67	35.67	53.18	74	-20.82	Horizontal	
17100.000	42.90	19.02	37.05	28.21	53.08	74	-20.92	Horizontal	

Test mode:		802.11 n20		Frequency(MHz):		5745	Remark:		Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
8328.564	36.40	11.58	37.27	42.56	53.27	74	-20.73	Vertical	
9659.786	37.10	12.53	36.28	40.38	53.73	74	-20.27	Vertical	
11490.000	37.45	14.01	36.68	35.08	49.86	74	-24.14	Vertical	
13778.220	39.06	16.00	39.32	37.12	52.86	74	-21.14	Vertical	
15800.410	41.20	17.31	38.51	33.09	53.09	74	-20.91	Vertical	
17235.000	43.05	19.50	37.03	28.28	53.80	74	-20.20	Vertical	
7678.832	36.04	10.89	37.44	43.17	52.66	74	-21.34	Horizontal	
9659.786	37.10	12.53	36.28	40.24	53.59	74	-20.41	Horizontal	
11490.000	37.45	14.01	36.68	33.93	48.71	74	-25.29	Horizontal	
13804.270	39.10	16.03	39.36	37.06	52.83	74	-21.17	Horizontal	
15800.410	41.20	17.31	38.51	32.39	52.39	74	-21.61	Horizontal	
17235.000	43.05	19.50	37.03	28.38	53.90	74	-20.10	Horizontal	

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 194 of 306

Test mode:		802.11 n20		Frequency(MHz):		5785	Remark:		Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
7093.172	35.49	10.64	37.69	42.42	50.86	74	-23.14	Vertical	
8990.716	37.00	11.79	37.19	39.21	50.81	74	-23.19	Vertical	
11570.000	37.49	14.09	36.75	34.20	49.03	74	-24.97	Vertical	
13192.440	38.29	15.60	38.42	36.29	51.76	74	-22.24	Vertical	
15157.260	40.66	16.70	39.53	35.20	53.03	74	-20.97	Vertical	
17355.000	43.23	19.92	37.01	27.06	53.20	74	-20.80	Vertical	
7174.020	35.57	10.67	37.65	39.39	47.98	74	-26.02	Horizontal	
9007.715	37.00	11.80	37.18	40.72	52.34	74	-21.66	Horizontal	
11570.000	37.49	14.09	36.75	34.07	48.90	74	-25.10	Horizontal	
13192.440	38.29	15.60	38.42	37.48	52.95	74	-21.05	Horizontal	
15157.260	40.66	16.70	39.53	35.24	53.07	74	-20.93	Horizontal	
17355.000	43.23	19.92	37.01	27.24	53.38	74	-20.62	Horizontal	

Test mode:		802.11 n20		Frequency(MHz):		5825	Remark:		Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
7678.832	36.04	10.89	37.44	42.02	51.51	74	-22.49	Vertical	
9659.786	37.10	12.53	36.28	40.32	53.67	74	-20.33	Vertical	
11650.000	37.50	14.18	36.83	33.76	48.61	74	-25.39	Vertical	
13192.440	38.29	15.60	38.42	37.37	52.84	74	-21.16	Vertical	
15157.260	40.66	16.70	39.53	35.39	53.22	74	-20.78	Vertical	
17475.000	43.45	20.33	36.99	26.21	53.00	74	-21.00	Vertical	
7678.832	36.04	10.89	37.44	41.99	51.48	74	-22.52	Horizontal	
8990.716	37.00	11.79	37.19	39.11	50.71	74	-23.29	Horizontal	
11650.000	37.50	14.18	36.83	32.78	47.63	74	-26.37	Horizontal	
13192.440	38.29	15.60	38.42	36.77	52.24	74	-21.76	Horizontal	
15128.660	40.63	16.67	39.58	34.38	52.10	74	-21.90	Horizontal	
17475.000	43.45	20.33	36.99	27.14	53.93	74	-20.07	Horizontal	



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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 195 of 306

Test mode:		802.11 ac20		Frequency(MHz):		5180	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7153.722	35.55	10.66	37.66	40.12	48.67	74	-25.33	Vertical
8990.716	37.00	11.79	37.19	40.85	52.45	74	-21.55	Vertical
10360.000	37.08	12.98	35.96	36.40	50.50	74	-23.50	Vertical
12775.540	37.99	14.93	37.91	37.06	52.07	74	-21.93	Vertical
15540.000	40.94	17.07	38.92	34.53	53.62	74	-20.38	Vertical
17797.150	43.90	21.44	36.95	25.20	53.59	74	-20.41	Vertical
7228.430	35.59	10.69	37.63	39.25	47.90	74	-26.10	Horizontal
9007.715	37.00	11.80	37.18	39.27	50.89	74	-23.11	Horizontal
10360.000	37.08	12.98	35.96	36.29	50.39	74	-23.61	Horizontal
12751.430	37.98	14.86	37.89	36.74	51.69	74	-22.31	Horizontal
15540.000	40.94	17.07	38.92	34.10	53.19	74	-20.81	Horizontal
17746.790	43.85	21.26	36.95	24.35	52.51	74	-21.49	Horizontal

Test mode:		802.11 ac20		Frequency(MHz):		5220	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7086.476	35.49	10.63	37.69	42.19	50.62	74	-23.38	Vertical
8990.716	37.00	11.79	37.19	39.67	51.27	74	-22.73	Vertical
10440.000	37.10	13.04	35.99	34.19	48.34	74	-25.66	Vertical
12775.540	37.99	14.93	37.91	37.73	52.74	74	-21.26	Vertical
15660.000	41.06	17.18	38.73	33.42	52.93	74	-21.07	Vertical
17864.510	44.06	21.66	36.94	24.96	53.74	74	-20.26	Vertical
7228.430	35.59	10.69	37.63	38.75	47.40	74	-26.60	Horizontal
9007.715	37.00	11.80	37.18	39.25	50.87	74	-23.13	Horizontal
10440.000	37.10	13.04	35.99	34.06	48.21	74	-25.79	Horizontal
13192.440	38.29	15.60	38.42	36.27	51.74	74	-22.26	Horizontal
15660.000	41.06	17.18	38.73	34.07	53.58	74	-20.42	Horizontal
17898.290	44.15	21.78	36.93	23.09	52.09	74	-21.91	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 196 of 306

Test mode:		802.11 ac20		Frequency(MHz):		5240	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	42.80	51.24	74	-22.76	Vertical
8990.716	37.00	11.79	37.19	39.50	51.10	74	-22.90	Vertical
10480.000	37.10	13.07	36.00	35.65	49.82	74	-24.18	Vertical
12775.540	37.99	14.93	37.91	37.78	52.79	74	-21.21	Vertical
15720.000	41.12	17.24	38.63	34.18	53.91	74	-20.09	Vertical
17830.800	43.98	21.55	36.94	24.23	52.82	74	-21.18	Vertical
7214.789	35.59	10.68	37.63	39.67	48.31	74	-25.69	Horizontal
8990.716	37.00	11.79	37.19	39.68	51.28	74	-22.72	Horizontal
10480.000	37.10	13.07	36.00	35.27	49.44	74	-24.56	Horizontal
13242.370	38.34	15.61	38.50	36.36	51.81	74	-22.19	Horizontal
15720.000	41.12	17.24	38.63	33.54	53.27	74	-20.73	Horizontal
17797.150	43.90	21.44	36.95	24.57	52.96	74	-21.04	Horizontal

Test mode:		802.11 ac20		Frequency(MHz):		5260	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	41.85	51.34	74	-22.66	Vertical
9007.715	37.00	11.80	37.18	39.68	51.30	74	-22.70	Vertical
10520.000	37.10	13.10	36.02	33.86	48.04	74	-25.96	Vertical
12751.430	37.98	14.86	37.89	37.83	52.78	74	-21.22	Vertical
15780.000	41.18	17.29	38.54	32.85	52.78	74	-21.22	Vertical
17763.560	43.86	21.32	36.95	25.41	53.64	74	-20.36	Vertical
7093.172	35.49	10.64	37.69	41.31	49.75	74	-24.25	Horizontal
9007.715	37.00	11.80	37.18	39.75	51.37	74	-22.63	Horizontal
10520.000	37.10	13.10	36.02	33.62	47.80	74	-26.20	Horizontal
13192.440	38.29	15.60	38.42	36.65	52.12	74	-21.88	Horizontal
15780.000	41.18	17.29	38.54	33.51	53.44	74	-20.56	Horizontal
17763.560	43.86	21.32	36.95	24.86	53.09	74	-20.91	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 197 of 306

Test mode:		802.11 ac20		Frequency(MHz):		5300	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	41.69	50.13	74	-23.87	Vertical
8990.716	37.00	11.79	37.19	39.24	50.84	74	-23.16	Vertical
10596.550	37.10	13.16	36.04	34.37	48.59	74	-25.41	Vertical
12751.430	37.98	14.86	37.89	37.14	52.09	74	-21.91	Vertical
15905.220	41.25	17.41	38.35	32.53	52.84	74	-21.16	Vertical
17830.800	43.98	21.55	36.94	24.41	53.00	74	-21.00	Vertical
7678.832	36.04	10.89	37.44	41.57	51.06	74	-22.94	Horizontal
8990.716	37.00	11.79	37.19	39.50	51.10	74	-22.90	Horizontal
10600.000	37.10	13.16	36.04	33.23	47.45	74	-26.55	Horizontal
13192.440	38.29	15.60	38.42	36.52	51.99	74	-22.01	Horizontal
15900.000	41.25	17.41	38.35	32.62	52.93	74	-21.07	Horizontal
17830.800	43.98	21.55	36.94	24.24	52.83	74	-21.17	Horizontal

Test mode:		802.11 ac20		Frequency(MHz):		5320	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7079.786	35.48	10.63	37.69	41.38	49.80	74	-24.20	Vertical
8990.716	37.00	11.79	37.19	38.92	50.52	74	-23.48	Vertical
10640.000	37.12	13.19	36.06	34.51	48.76	74	-25.24	Vertical
12751.430	37.98	14.86	37.89	37.83	52.78	74	-21.22	Vertical
15960.000	41.28	17.46	38.26	33.08	53.56	74	-20.44	Vertical
17830.800	43.98	21.55	36.94	24.46	53.05	74	-20.95	Vertical
7174.020	35.57	10.67	37.65	40.10	48.69	74	-25.31	Horizontal
9007.715	37.00	11.80	37.18	38.40	50.02	74	-23.98	Horizontal
10640.000	37.12	13.19	36.06	33.79	48.04	74	-25.96	Horizontal
13093.140	38.19	15.57	38.27	36.22	51.71	74	-22.29	Horizontal
15960.000	41.28	17.46	38.26	32.26	52.74	74	-21.26	Horizontal
17830.800	43.98	21.55	36.94	24.98	53.57	74	-20.43	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 198 of 306

Test mode:		802.11 ac20		Frequency(MHz):		5500	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7228.430	35.59	10.69	37.63	39.06	47.71	74	-26.29	Vertical
9659.786	37.10	12.53	36.28	39.34	52.69	74	-21.31	Vertical
11004.530	37.30	13.46	36.18	33.40	47.98	74	-26.02	Vertical
13093.140	38.19	15.57	38.27	36.39	51.88	74	-22.12	Vertical
14567.780	40.07	16.42	39.73	35.67	52.43	74	-21.57	Vertical
16502.000	42.00	17.59	37.62	31.63	53.60	74	-20.40	Vertical
7678.832	36.04	10.89	37.44	42.39	51.88	74	-22.12	Horizontal
9659.786	37.10	12.53	36.28	40.13	53.48	74	-20.52	Horizontal
11000.000	37.30	13.45	36.18	34.07	48.64	74	-25.36	Horizontal
12751.430	37.98	14.86	37.89	37.92	52.87	74	-21.13	Horizontal
14554.030	40.05	16.41	39.73	35.35	52.08	74	-21.92	Horizontal
16500.000	42.00	17.59	37.62	30.61	52.58	74	-21.42	Horizontal

Test mode:		802.11 ac20		Frequency(MHz):		5600	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7664.340	36.03	10.88	37.44	41.99	51.46	74	-22.54	Vertical
9007.715	37.00	11.80	37.18	39.59	51.21	74	-22.79	Vertical
11200.000	37.30	13.68	36.39	34.56	49.15	74	-24.85	Vertical
13093.140	38.19	15.57	38.27	36.25	51.74	74	-22.26	Vertical
14929.940	40.47	16.52	39.78	35.12	52.33	74	-21.67	Vertical
16800.000	42.50	18.24	37.28	30.32	53.78	74	-20.22	Vertical
7106.583	35.51	10.64	37.68	41.57	50.04	74	-23.96	Horizontal
8990.716	37.00	11.79	37.19	39.22	50.82	74	-23.18	Horizontal
11200.000	37.30	13.68	36.39	34.58	49.17	74	-24.83	Horizontal
12751.430	37.98	14.86	37.89	37.56	52.51	74	-21.49	Horizontal
14485.460	39.99	16.39	39.72	35.95	52.61	74	-21.39	Horizontal
16800.000	42.50	18.24	37.28	30.30	53.76	74	-20.24	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 199 of 306

Test mode:		802.11 ac20		Frequency(MHz):		5700	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7133.481	35.53	10.65	37.67	40.34	48.85	74	-25.15	Vertical
9007.715	37.00	11.80	37.18	39.09	50.71	74	-23.29	Vertical
11400.000	37.40	13.91	36.59	35.34	50.06	74	-23.94	Vertical
13192.440	38.29	15.60	38.42	35.78	51.25	74	-22.75	Vertical
14817.560	40.41	16.49	39.77	36.23	53.36	74	-20.64	Vertical
17100.000	42.90	19.02	37.05	28.66	53.53	74	-20.47	Vertical
7678.832	36.04	10.89	37.44	41.50	50.99	74	-23.01	Horizontal
9007.715	37.00	11.80	37.18	39.87	51.49	74	-22.51	Horizontal
11400.000	37.40	13.91	36.59	34.88	49.60	74	-24.40	Horizontal
13192.440	38.29	15.60	38.42	36.98	52.45	74	-21.55	Horizontal
14845.570	40.42	16.50	39.77	35.84	52.99	74	-21.01	Horizontal
17100.000	42.90	19.02	37.05	28.61	53.48	74	-20.52	Horizontal

Test mode:		802.11 ac20		Frequency(MHz):		5745	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7664.340	36.03	10.88	37.44	42.29	51.76	74	-22.24	Vertical
9659.786	37.10	12.53	36.28	39.74	53.09	74	-20.91	Vertical
11490.000	37.45	14.01	36.68	34.47	49.25	74	-24.75	Vertical
13105.510	38.21	15.58	38.29	37.22	52.72	74	-21.28	Vertical
14761.680	40.34	16.47	39.76	35.50	52.55	74	-21.45	Vertical
17235.000	43.05	19.50	37.03	28.37	53.89	74	-20.11	Vertical
7664.340	36.03	10.88	37.44	42.93	52.40	74	-21.60	Horizontal
9899.929	37.20	12.66	35.96	39.17	53.07	74	-20.93	Horizontal
11490.000	37.45	14.01	36.68	35.62	50.40	74	-23.60	Horizontal
13192.440	38.29	15.60	38.42	35.98	51.45	74	-22.55	Horizontal
15157.260	40.66	16.70	39.53	34.58	52.41	74	-21.59	Horizontal
17235.000	43.05	19.50	37.03	28.07	53.59	74	-20.41	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 200 of 306

Test mode:		802.11 ac20		Frequency(MHz):		5785	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7751.699	36.08	10.93	37.41	38.14	47.74	74	-26.26	Vertical
9659.786	37.10	12.53	36.28	40.37	53.72	74	-20.28	Vertical
11570.000	37.49	14.09	36.75	34.67	49.50	74	-24.50	Vertical
13192.440	38.29	15.60	38.42	37.40	52.87	74	-21.13	Vertical
15243.400	40.72	16.78	39.39	35.49	53.60	74	-20.40	Vertical
17355.000	43.23	19.92	37.01	27.78	53.92	74	-20.08	Vertical
7678.832	36.04	10.89	37.44	41.96	51.45	74	-22.55	Horizontal
9659.786	37.10	12.53	36.28	40.35	53.70	74	-20.30	Horizontal
11570.000	37.49	14.09	36.75	34.47	49.30	74	-24.70	Horizontal
13167.540	38.27	15.59	38.38	35.84	51.32	74	-22.68	Horizontal
15128.660	40.63	16.67	39.58	34.38	52.10	74	-21.90	Horizontal
17355.000	43.23	19.92	37.01	27.37	53.51	74	-20.49	Horizontal

Test mode:		802.11 ac20		Frequency(MHz):		5825	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7228.430	35.59	10.69	37.63	39.25	47.90	74	-26.10	Vertical
9659.786	37.10	12.53	36.28	40.39	53.74	74	-20.26	Vertical
11650.000	37.50	14.18	36.83	34.69	49.54	74	-24.46	Vertical
13217.380	38.32	15.61	38.46	37.09	52.56	74	-21.44	Vertical
15504.760	40.91	17.03	38.97	33.57	52.54	74	-21.46	Vertical
17475.000	43.45	20.33	36.99	26.34	53.13	74	-20.87	Vertical
7678.832	36.04	10.89	37.44	42.58	52.07	74	-21.93	Horizontal
10050.670	37.22	12.75	35.85	39.54	53.66	74	-20.34	Horizontal
11650.000	37.50	14.18	36.83	35.61	50.46	74	-23.54	Horizontal
13192.440	38.29	15.60	38.42	36.78	52.25	74	-21.75	Horizontal
15128.660	40.63	16.67	39.58	33.31	51.03	74	-22.97	Horizontal
17475.000	43.45	20.33	36.99	26.31	53.10	74	-20.90	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 201 of 306

Test mode:		802.11 n40		Frequency(MHz):		5190	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	43.03	52.52	74	-21.48	Vertical
9007.715	37.00	11.80	37.18	39.66	51.28	74	-22.72	Vertical
10380.000	37.09	13.00	35.97	36.32	50.44	74	-23.56	Vertical
12775.540	37.99	14.93	37.91	38.55	53.56	74	-20.44	Vertical
15570.000	40.97	17.09	38.87	33.84	53.03	74	-20.97	Vertical
17797.150	43.90	21.44	36.95	25.50	53.89	74	-20.11	Vertical
7093.172	35.49	10.64	37.69	41.92	50.36	74	-23.64	Horizontal
9007.715	37.00	11.80	37.18	39.58	51.20	74	-22.80	Horizontal
10380.000	37.09	13.00	35.97	36.25	50.37	74	-23.63	Horizontal
12751.430	37.98	14.86	37.89	38.22	53.17	74	-20.83	Horizontal
15570.000	40.97	17.09	38.87	33.77	52.96	74	-21.04	Horizontal
17932.130	44.23	21.89	36.93	24.14	53.33	74	-20.67	Horizontal

Test mode:		802.11 n40		Frequency(MHz):		5230	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7187.584	35.59	10.67	37.65	38.93	47.54	74	-26.46	Vertical
9007.715	37.00	11.80	37.18	39.76	51.38	74	-22.62	Vertical
10460.000	37.10	13.06	36.00	35.31	49.47	74	-24.53	Vertical
13117.890	38.22	15.58	38.31	36.12	51.61	74	-22.39	Vertical
15690.000	41.09	17.21	38.68	33.70	53.32	74	-20.68	Vertical
17730.040	43.83	21.21	36.96	25.45	53.53	74	-20.47	Vertical
7093.172	35.49	10.64	37.69	42.72	51.16	74	-22.84	Horizontal
8344.312	36.40	11.61	37.27	41.68	52.42	74	-21.58	Horizontal
10460.000	37.10	13.06	36.00	34.33	48.49	74	-25.51	Horizontal
13192.440	38.29	15.60	38.42	36.63	52.10	74	-21.90	Horizontal
15690.000	41.09	17.21	38.68	33.55	53.17	74	-20.83	Horizontal
17864.510	44.06	21.66	36.94	23.85	52.63	74	-21.37	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 202 of 306

Test mode:		8802.11 n40		Frequency(MHz):		5270	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	42.49	50.93	74	-23.07	Vertical
8990.716	37.00	11.79	37.19	38.75	50.35	74	-23.65	Vertical
10540.000	37.10	13.12	36.02	33.64	47.84	74	-26.16	Vertical
13167.540	38.27	15.59	38.38	36.59	52.07	74	-21.93	Vertical
15810.000	41.21	17.32	38.49	32.52	52.56	74	-21.44	Vertical
17830.800	43.98	21.55	36.94	25.30	53.89	74	-20.11	Vertical
7678.832	36.04	10.89	37.44	42.57	52.06	74	-21.94	Horizontal
9007.715	37.00	11.80	37.18	38.96	50.58	74	-23.42	Horizontal
10540.000	37.10	13.12	36.02	34.30	48.50	74	-25.50	Horizontal
13217.380	38.32	15.61	38.46	36.52	51.99	74	-22.01	Horizontal
15810.000	41.21	17.32	38.49	32.01	52.05	74	-21.95	Horizontal
17730.040	43.83	21.21	36.96	24.91	52.99	74	-21.01	Horizontal

Test mode:		802.11 n40		Frequency(MHz):		5310	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	42.89	52.38	74	-21.62	Vertical
9007.715	37.00	11.80	37.18	39.16	50.78	74	-23.22	Vertical
10620.000	37.11	13.18	36.05	34.20	48.44	74	-25.56	Vertical
13242.370	38.34	15.61	38.50	37.18	52.63	74	-21.37	Vertical
15930.000	41.27	17.43	38.31	32.92	53.31	74	-20.69	Vertical
17797.150	43.90	21.44	36.95	24.75	53.14	74	-20.86	Vertical
7079.786	35.48	10.63	37.69	42.80	51.22	74	-22.78	Horizontal
8990.716	37.00	11.79	37.19	38.94	50.54	74	-23.46	Horizontal
10620.000	37.11	13.18	36.05	34.74	48.98	74	-25.02	Horizontal
13117.890	38.22	15.58	38.31	36.09	51.58	74	-22.42	Horizontal
15930.000	41.27	17.43	38.31	32.74	53.13	74	-20.87	Horizontal
17797.150	43.90	21.44	36.95	25.20	53.59	74	-20.41	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 203 of 306

Test mode:		802.11 n40		Frequency(MHz):		5510	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7133.481	35.53	10.65	37.67	40.87	49.38	74	-24.62	Vertical
8990.716	37.00	11.79	37.19	38.58	50.18	74	-23.82	Vertical
11020.000	37.30	13.47	36.20	35.26	49.83	74	-24.17	Vertical
12751.430	37.98	14.86	37.89	36.84	51.79	74	-22.21	Vertical
14929.940	40.47	16.52	39.78	35.20	52.41	74	-21.59	Vertical
16530.000	42.06	17.66	37.59	31.07	53.20	74	-20.80	Vertical
7678.832	36.04	10.89	37.44	41.82	51.31	74	-22.69	Horizontal
8990.716	37.00	11.79	37.19	38.29	49.89	74	-24.11	Horizontal
11020.000	37.30	13.47	36.20	36.02	50.59	74	-23.41	Horizontal
12751.430	37.98	14.86	37.89	36.15	51.10	74	-22.90	Horizontal
14929.940	40.47	16.52	39.78	35.60	52.81	74	-21.19	Horizontal
16530.000	42.06	17.66	37.59	30.72	52.85	74	-21.15	Horizontal

Test mode:		802.11 n40		Frequency(MHz):		5590	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	42.65	52.14	74	-21.86	Vertical
8990.716	37.00	11.79	37.19	38.95	50.55	74	-23.45	Vertical
11180.000	37.30	13.66	36.36	34.36	48.96	74	-25.04	Vertical
13167.540	38.27	15.59	38.38	37.18	52.66	74	-21.34	Vertical
15100.110	40.60	16.64	39.63	35.75	53.36	74	-20.64	Vertical
16770.000	42.46	18.18	37.32	29.61	52.93	74	-21.07	Vertical
7093.172	35.49	10.64	37.69	41.87	50.31	74	-23.69	Horizontal
9007.715	37.00	11.80	37.18	39.20	50.82	74	-23.18	Horizontal
11180.000	37.30	13.66	36.36	35.22	49.82	74	-24.18	Horizontal
13117.890	38.22	15.58	38.31	35.87	51.36	74	-22.64	Horizontal
15157.260	40.66	16.70	39.53	34.78	52.61	74	-21.39	Horizontal
16770.000	42.46	18.18	37.32	29.25	52.57	74	-21.43	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 204 of 306

Test mode:		802.11 n40		Frequency(MHz):		5670	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7099.874	35.50	10.64	37.69	41.17	49.62	74	-24.38	Vertical
9007.715	37.00	11.80	37.18	38.44	50.06	74	-23.94	Vertical
11340.000	37.37	13.84	36.53	35.49	50.17	74	-23.83	Vertical
13217.380	38.32	15.61	38.46	36.13	51.60	74	-22.40	Vertical
15214.630	40.71	16.75	39.44	34.16	52.18	74	-21.82	Vertical
17010.000	42.81	18.71	37.06	28.83	53.29	74	-20.71	Vertical
7678.832	36.04	10.89	37.44	41.83	51.32	74	-22.68	Horizontal
8990.716	37.00	11.79	37.19	39.99	51.59	74	-22.41	Horizontal
11340.000	37.37	13.84	36.53	35.33	50.01	74	-23.99	Horizontal
13192.440	38.29	15.60	38.42	37.20	52.67	74	-21.33	Horizontal
15243.400	40.72	16.78	39.39	35.14	53.25	74	-20.75	Horizontal
17010.000	42.81	18.71	37.06	29.27	53.73	74	-20.27	Horizontal

Test mode:		802.11 n40		Frequency(MHz):		5755	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	42.64	52.13	74	-21.87	Vertical
9659.786	37.10	12.53	36.28	40.23	53.58	74	-20.42	Vertical
11510.000	37.46	14.03	36.70	34.49	49.28	74	-24.72	Vertical
13267.410	38.37	15.62	38.54	35.80	51.25	74	-22.75	Vertical
15417.140	40.82	16.95	39.11	33.63	52.29	74	-21.71	Vertical
17265.000	43.10	19.60	37.02	27.53	53.21	74	-20.79	Vertical
7106.583	35.51	10.64	37.68	41.67	50.14	74	-23.86	Horizontal
8990.716	37.00	11.79	37.19	39.04	50.64	74	-23.36	Horizontal
11510.000	37.46	14.03	36.70	33.68	48.47	74	-25.53	Horizontal
12751.430	37.98	14.86	37.89	37.92	52.87	74	-21.13	Horizontal
14929.940	40.47	16.52	39.78	35.22	52.43	74	-21.57	Horizontal
17265.000	43.10	19.60	37.02	27.49	53.17	74	-20.83	Horizontal



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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 205 of 306

Test mode:		802.11 n40		Frequency(MHz):		5795	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	42.58	51.02	74	-22.98	Vertical
9007.715	37.00	11.80	37.18	39.10	50.72	74	-23.28	Vertical
11590.000	37.50	14.12	36.77	33.16	48.01	74	-25.99	Vertical
13192.440	38.29	15.60	38.42	37.15	52.62	74	-21.38	Vertical
15214.630	40.71	16.75	39.44	35.15	53.17	74	-20.83	Vertical
17385.000	43.28	20.02	37.01	27.42	53.71	74	-20.29	Vertical
7678.832	36.04	10.89	37.44	42.17	51.66	74	-22.34	Horizontal
9659.786	37.10	12.53	36.28	40.20	53.55	74	-20.45	Horizontal
11590.000	37.50	14.12	36.77	32.75	47.60	74	-26.40	Horizontal
13117.890	38.22	15.58	38.31	36.01	51.50	74	-22.50	Horizontal
15157.260	40.66	16.70	39.53	35.10	52.93	74	-21.07	Horizontal
17385.000	43.28	20.02	37.01	26.61	52.90	74	-21.10	Horizontal

Test mode:		802.11 ac40		Frequency(MHz):		5190	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	43.03	52.52	74	-21.48	Vertical
9007.715	37.00	11.80	37.18	39.66	51.28	74	-22.72	Vertical
10380.000	37.09	13.00	35.97	37.32	51.44	74	-22.56	Vertical
12775.540	37.99	14.93	37.91	37.55	52.56	74	-21.44	Vertical
15570.000	40.97	17.09	38.87	33.84	53.03	74	-20.97	Vertical
17797.150	43.90	21.44	36.95	25.50	53.89	74	-20.11	Vertical
7678.832	36.04	10.89	37.44	42.21	51.70	74	-22.30	Horizontal
9007.715	37.00	11.80	37.18	39.58	51.20	74	-22.80	Horizontal
10380.000	37.09	13.00	35.97	36.25	50.37	74	-23.63	Horizontal
12751.430	37.98	14.86	37.89	37.22	52.17	74	-21.83	Horizontal
15570.000	40.97	17.09	38.87	33.77	52.96	74	-21.04	Horizontal
17932.130	44.23	21.89	36.93	23.14	52.33	74	-21.67	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 206 of 306

Test mode:		802.11 ac40		Frequency(MHz):		5230	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	42.99	51.43	74	-22.57	Vertical
9007.715	37.00	11.80	37.18	39.76	51.38	74	-22.62	Vertical
10460.000	37.10	13.06	36.00	35.31	49.47	74	-24.53	Vertical
13117.890	38.22	15.58	38.31	36.12	51.61	74	-22.39	Vertical
15690.000	41.09	17.21	38.68	33.70	53.32	74	-20.68	Vertical
17830.800	43.98	21.55	36.94	24.59	53.18	74	-20.82	Vertical
7026.495	35.43	10.61	37.72	43.43	51.75	74	-22.25	Horizontal
9007.715	37.00	11.80	37.18	38.61	50.23	74	-23.77	Horizontal
10460.000	37.10	13.06	36.00	35.33	49.49	74	-24.51	Horizontal
13192.440	38.29	15.60	38.42	36.63	52.10	74	-21.90	Horizontal
15690.000	41.09	17.21	38.68	33.55	53.17	74	-20.83	Horizontal
17864.510	44.06	21.66	36.94	24.85	53.63	74	-20.37	Horizontal

Test mode:		802.11 ac40		Frequency(MHz):		5270	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	42.84	52.33	74	-21.67	Vertical
8990.716	37.00	11.79	37.19	40.10	51.70	74	-22.30	Vertical
10540.000	37.10	13.12	36.02	34.17	48.37	74	-25.63	Vertical
13192.440	38.29	15.60	38.42	37.36	52.83	74	-21.17	Vertical
15810.000	41.21	17.32	38.49	32.58	52.62	74	-21.38	Vertical
17763.560	43.86	21.32	36.95	25.33	53.56	74	-20.44	Vertical
7106.583	35.51	10.64	37.68	41.63	50.10	74	-23.90	Horizontal
8990.716	37.00	11.79	37.19	39.75	51.35	74	-22.65	Horizontal
10540.000	37.10	13.12	36.02	33.97	48.17	74	-25.83	Horizontal
13093.140	38.19	15.57	38.27	37.12	52.61	74	-21.39	Horizontal
15810.000	41.21	17.32	38.49	33.39	53.43	74	-20.57	Horizontal
17763.560	43.86	21.32	36.95	25.14	53.37	74	-20.63	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 207 of 306

Test mode:		802.11 ac40		Frequency(MHz):		5310	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	42.86	52.35	74	-21.65	Vertical
9007.715	37.00	11.80	37.18	39.07	50.69	74	-23.31	Vertical
10620.000	37.11	13.18	36.05	34.46	48.70	74	-25.30	Vertical
13192.440	38.29	15.60	38.42	37.50	52.97	74	-21.03	Vertical
15930.000	41.27	17.43	38.31	32.66	53.05	74	-20.95	Vertical
17830.800	43.98	21.55	36.94	24.44	53.03	74	-20.97	Vertical
7093.172	35.49	10.64	37.69	42.42	50.86	74	-23.14	Horizontal
8990.716	37.00	11.79	37.19	38.93	50.53	74	-23.47	Horizontal
10620.000	37.11	13.18	36.05	34.03	48.27	74	-25.73	Horizontal
12751.430	37.98	14.86	37.89	37.35	52.30	74	-21.70	Horizontal
15930.000	41.27	17.43	38.31	32.42	52.81	74	-21.19	Horizontal
17830.800	43.98	21.55	36.94	24.92	53.51	74	-20.49	Horizontal

Test mode:		802.11 ac40		Frequency(MHz):		5510	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	42.44	51.93	74	-22.07	Vertical
9007.715	37.00	11.80	37.18	39.04	50.66	74	-23.34	Vertical
11020.000	37.30	13.47	36.20	36.56	51.13	74	-22.87	Vertical
12751.430	37.98	14.86	37.89	37.33	52.28	74	-21.72	Vertical
14512.850	40.01	16.40	39.72	36.32	53.01	74	-20.99	Vertical
16530.000	42.06	17.66	37.59	31.25	53.38	74	-20.62	Vertical
7099.874	35.50	10.64	37.69	40.91	49.36	74	-24.64	Horizontal
9007.715	37.00	11.80	37.18	39.36	50.98	74	-23.02	Horizontal
11020.000	37.30	13.47	36.20	35.74	50.31	74	-23.69	Horizontal
12751.430	37.98	14.86	37.89	36.34	51.29	74	-22.71	Horizontal
14761.680	40.34	16.47	39.76	35.68	52.73	74	-21.27	Horizontal
16530.000	42.06	17.66	37.59	31.64	53.77	74	-20.23	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 208 of 306

Test mode:		802.11 ac40		Frequency(MHz):		5590	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	41.07	49.51	74	-24.49	Vertical
8990.716	37.00	11.79	37.19	39.13	50.73	74	-23.27	Vertical
11180.000	37.30	13.66	36.36	33.87	48.47	74	-25.53	Vertical
13204.910	38.30	15.60	38.44	37.35	52.81	74	-21.19	Vertical
15128.660	40.63	16.67	39.58	35.37	53.09	74	-20.91	Vertical
16770.000	42.46	18.18	37.32	29.71	53.03	74	-20.97	Vertical
7678.832	36.04	10.89	37.44	42.32	51.81	74	-22.19	Horizontal
8990.716	37.00	11.79	37.19	39.55	51.15	74	-22.85	Horizontal
11180.000	37.30	13.66	36.36	34.35	48.95	74	-25.05	Horizontal
12775.540	37.99	14.93	37.91	37.96	52.97	74	-21.03	Horizontal
14512.850	40.01	16.40	39.72	36.16	52.85	74	-21.15	Horizontal
16770.000	42.46	18.18	37.32	30.02	53.34	74	-20.66	Horizontal

Test mode:		802.11 ac40		Frequency(MHz):		5670	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7664.340	36.03	10.88	37.44	42.39	51.86	74	-22.14	Vertical
9007.715	37.00	11.80	37.18	39.15	50.77	74	-23.23	Vertical
11340.000	37.37	13.84	36.53	35.76	50.44	74	-23.56	Vertical
12751.430	37.98	14.86	37.89	37.50	52.45	74	-21.55	Vertical
15157.260	40.66	16.70	39.53	35.36	53.19	74	-20.81	Vertical
17010.000	42.81	18.71	37.06	29.08	53.54	74	-20.46	Vertical
7093.172	35.49	10.64	37.69	41.99	50.43	74	-23.57	Horizontal
8990.716	37.00	11.79	37.19	39.14	50.74	74	-23.26	Horizontal
11340.000	37.37	13.84	36.53	35.77	50.45	74	-23.55	Horizontal
13217.380	38.32	15.61	38.46	36.02	51.49	74	-22.51	Horizontal
15185.920	40.69	16.72	39.49	34.65	52.57	74	-21.43	Horizontal
17010.000	42.81	18.71	37.06	28.97	53.43	74	-20.57	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 209 of 306

Test mode:		802.11 ac40		Frequency(MHz):		5755	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	40.64	50.13	74	-23.87	Vertical
9659.786	37.10	12.53	36.28	38.23	51.58	74	-22.42	Vertical
11510.000	37.46	14.03	36.70	36.49	51.28	74	-22.72	Vertical
13167.540	38.27	15.59	38.38	36.35	51.83	74	-22.17	Vertical
15157.260	40.66	16.70	39.53	34.20	52.03	74	-21.97	Vertical
17265.000	43.10	19.60	37.02	27.53	53.21	74	-20.79	Vertical
7133.481	35.53	10.65	37.67	41.32	49.83	74	-24.17	Horizontal
8990.716	37.00	11.79	37.19	39.04	50.64	74	-23.36	Horizontal
11510.000	37.46	14.03	36.70	33.68	48.47	74	-25.53	Horizontal
13192.440	38.29	15.60	38.42	35.85	51.32	74	-22.68	Horizontal
14929.940	40.47	16.52	39.78	36.22	53.43	74	-20.57	Horizontal
17265.000	43.10	19.60	37.02	27.49	53.17	74	-20.83	Horizontal

Test mode:		802.11 ac40		Frequency(MHz):		5795	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	41.50	50.99	74	-23.01	Vertical
9659.786	37.10	12.53	36.28	40.11	53.46	74	-20.54	Vertical
11590.000	37.50	14.12	36.77	35.16	50.01	74	-23.99	Vertical
13117.890	38.22	15.58	38.31	37.06	52.55	74	-21.45	Vertical
15800.410	41.20	17.31	38.51	33.34	53.34	74	-20.66	Vertical
17385.000	43.28	20.02	37.01	27.42	53.71	74	-20.29	Vertical
7079.786	35.48	10.63	37.69	42.54	50.96	74	-23.04	Horizontal
8990.716	37.00	11.79	37.19	39.80	51.40	74	-22.60	Horizontal
11590.000	37.50	14.12	36.77	35.75	50.60	74	-23.40	Horizontal
13192.440	38.29	15.60	38.42	36.75	52.22	74	-21.78	Horizontal
15157.260	40.66	16.70	39.53	35.10	52.93	74	-21.07	Horizontal
17385.000	43.28	20.02	37.01	26.61	52.90	74	-21.10	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 210 of 306

Test mode:		802.11 ac80		Frequency(MHz):		5210	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7664.340	36.03	10.88	37.44	41.60	51.07	74	-22.93	Vertical
8990.716	37.00	11.79	37.19	39.58	51.18	74	-22.82	Vertical
10420.000	37.10	13.03	35.98	34.24	48.39	74	-25.61	Vertical
12751.430	37.98	14.86	37.89	37.42	52.37	74	-21.63	Vertical
15630.000	41.03	17.15	38.78	33.71	53.11	74	-20.89	Vertical
17830.800	43.98	21.55	36.94	25.08	53.67	74	-20.33	Vertical
7086.476	35.49	10.63	37.69	41.65	50.08	74	-23.92	Horizontal
9007.715	37.00	11.80	37.18	39.11	50.73	74	-23.27	Horizontal
10420.000	37.10	13.03	35.98	34.88	49.03	74	-24.97	Horizontal
12775.540	37.99	14.93	37.91	37.39	52.40	74	-21.60	Horizontal
15630.000	41.03	17.15	38.78	33.45	52.85	74	-21.15	Horizontal
17763.560	43.86	21.32	36.95	25.35	53.58	74	-20.42	Horizontal

Test mode:		802.11 ac80		Frequency(MHz):		5290	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7106.583	35.51	10.64	37.68	42.14	50.61	74	-23.39	Vertical
8990.716	37.00	11.79	37.19	39.16	50.76	74	-23.24	Vertical
10580.000	37.10	13.15	36.04	35.21	49.42	74	-24.58	Vertical
12775.540	37.99	14.93	37.91	37.51	52.52	74	-21.48	Vertical
15870.000	41.24	17.38	38.40	33.04	53.26	74	-20.74	Vertical
17830.800	43.98	21.55	36.94	24.80	53.39	74	-20.61	Vertical
7678.832	36.04	10.89	37.44	42.13	51.62	74	-22.38	Horizontal
9007.715	37.00	11.80	37.18	38.98	50.60	74	-23.40	Horizontal
10580.000	37.10	13.15	36.04	35.23	49.44	74	-24.56	Horizontal
13117.890	38.22	15.58	38.31	35.85	51.34	74	-22.66	Horizontal
15870.000	41.24	17.38	38.40	32.65	52.87	74	-21.13	Horizontal
17763.560	43.86	21.32	36.95	24.13	52.36	74	-21.64	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 211 of 306

Test mode:		802.11 ac80		Frequency(MHz):		5530	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7093.172	35.49	10.64	37.69	42.18	50.62	74	-23.38	Vertical
9007.715	37.00	11.80	37.18	39.17	50.79	74	-23.21	Vertical
11060.000	37.30	13.52	36.24	37.70	52.28	74	-21.72	Vertical
12775.540	37.99	14.93	37.91	37.91	52.92	74	-21.08	Vertical
14512.850	40.01	16.40	39.72	35.06	51.75	74	-22.25	Vertical
16590.000	42.18	17.79	37.52	31.11	53.56	74	-20.44	Vertical
7678.832	36.04	10.89	37.44	42.42	51.91	74	-22.09	Horizontal
8990.716	37.00	11.79	37.19	39.47	51.07	74	-22.93	Horizontal
11060.000	37.30	13.52	36.24	37.86	52.44	74	-21.56	Horizontal
12775.540	37.99	14.93	37.91	37.06	52.07	74	-21.93	Horizontal
14929.940	40.47	16.52	39.78	34.62	51.83	74	-22.17	Horizontal
16590.000	42.18	17.79	37.52	31.12	53.57	74	-20.43	Horizontal

Test mode:		802.11 ac80		Frequency(MHz):		5610	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	41.57	51.06	74	-22.94	Vertical
8990.716	37.00	11.79	37.19	38.98	50.58	74	-23.42	Vertical
11220.000	37.31	13.70	36.41	35.37	49.97	74	-24.03	Vertical
13192.440	38.29	15.60	38.42	36.62	52.09	74	-21.91	Vertical
15417.140	40.82	16.95	39.11	34.09	52.75	74	-21.25	Vertical
16830.000	42.55	18.31	37.25	29.60	53.21	74	-20.79	Vertical
7093.172	35.49	10.64	37.69	42.23	50.67	74	-23.33	Horizontal
9007.715	37.00	11.80	37.18	39.55	51.17	74	-22.83	Horizontal
11220.000	37.31	13.70	36.41	36.16	50.76	74	-23.24	Horizontal
13217.380	38.32	15.61	38.46	36.45	51.92	74	-22.08	Horizontal
14929.940	40.47	16.52	39.78	35.95	53.16	74	-20.84	Horizontal
16830.000	42.55	18.31	37.25	30.18	53.79	74	-20.21	Horizontal

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 212 of 306

Test mode:		802.11 ac80		Frequency(MHz):		5775	Remark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
7678.832	36.04	10.89	37.44	42.40	51.89	74	-22.11	Vertical
9007.715	37.00	11.80	37.18	38.95	50.57	74	-23.43	Vertical
11550.000	37.48	14.07	36.74	34.09	48.90	74	-25.10	Vertical
13167.540	38.27	15.59	38.38	36.38	51.86	74	-22.14	Vertical
15740.830	41.14	17.26	38.60	33.37	53.17	74	-20.83	Vertical
17325.000	43.19	19.81	37.01	27.80	53.79	74	-20.21	Vertical
7099.874	35.50	10.64	37.69	40.82	49.27	74	-24.73	Horizontal
9007.715	37.00	11.80	37.18	38.75	50.37	74	-23.63	Horizontal
11550.000	37.48	14.07	36.74	34.85	49.66	74	-24.34	Horizontal
13217.380	38.32	15.61	38.46	36.22	51.69	74	-22.31	Horizontal
15800.410	41.20	17.31	38.51	32.72	52.72	74	-21.28	Horizontal
17325.000	43.19	19.81	37.01	26.80	52.79	74	-21.21	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 above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. 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.

6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	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
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



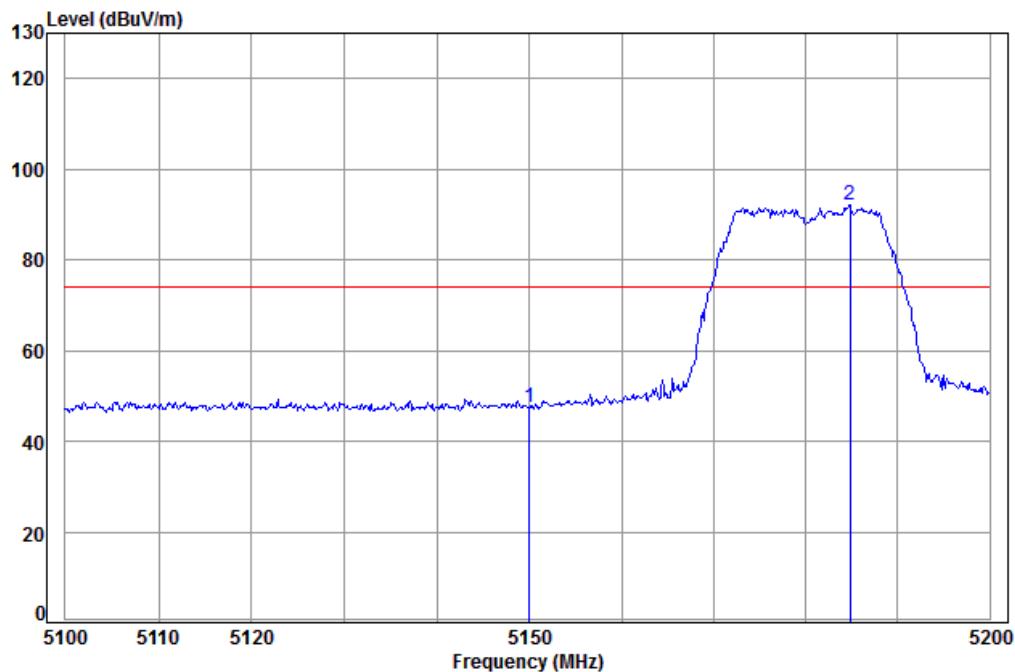
Report No.: SZEM160200065905
 Page: 214 of 306

Test Procedure:	<ol style="list-style-type: none"> a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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 g. Test the EUT in the outermost channels.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, 6Mbps of rate is the worst case of 802.11a; 6.5Mbps of rate is the worst case of 802.11n(HT20); 6.5Mbps of rate is the worst case of 802.11ac 20; 13.5Mbps of rate is the worst case of 802.11n(HT40); 13.5Mbps of rate is the worst case of 802.11ac 40; 29.2Mbps of rate is the worst case of 802.11ac 80.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180	Remark:	Peak	Vertical
------------	---------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5180 Band edge
: A20

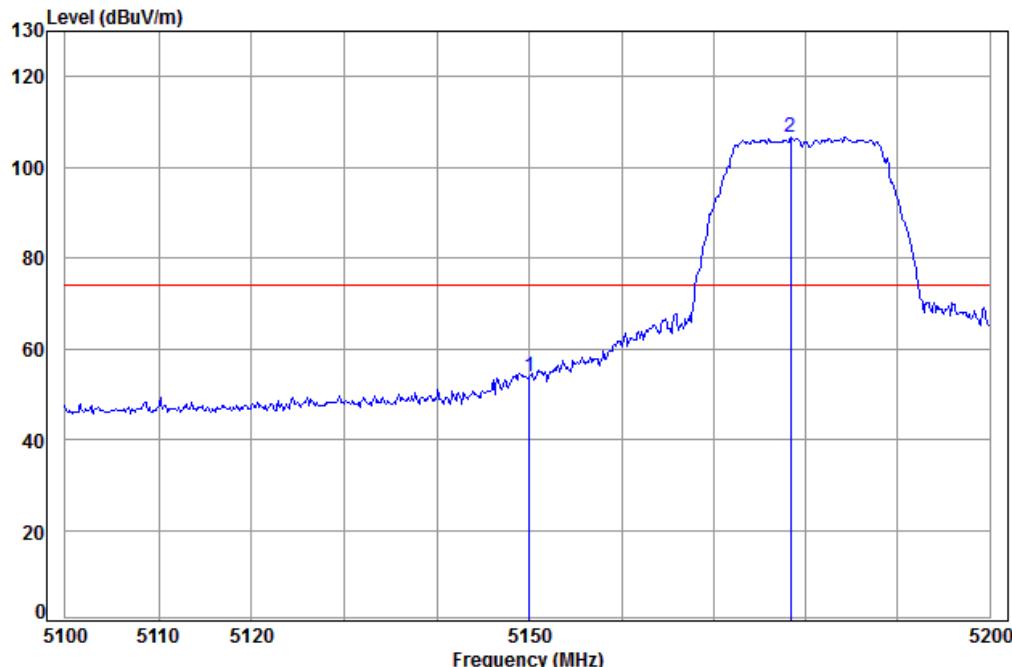
	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	44.17	47.50	74.00 -26.50
2 pp	5184.78	8.10	34.02	38.82	88.70	92.00	74.00 18.00

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 216 of 306

Test mode:	802.11a	Frequency(MHz):	5180	Remark:	Peak	Horizontal
------------	---------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No. : 0659CR

Mode: : 5180 Band edge

: A20

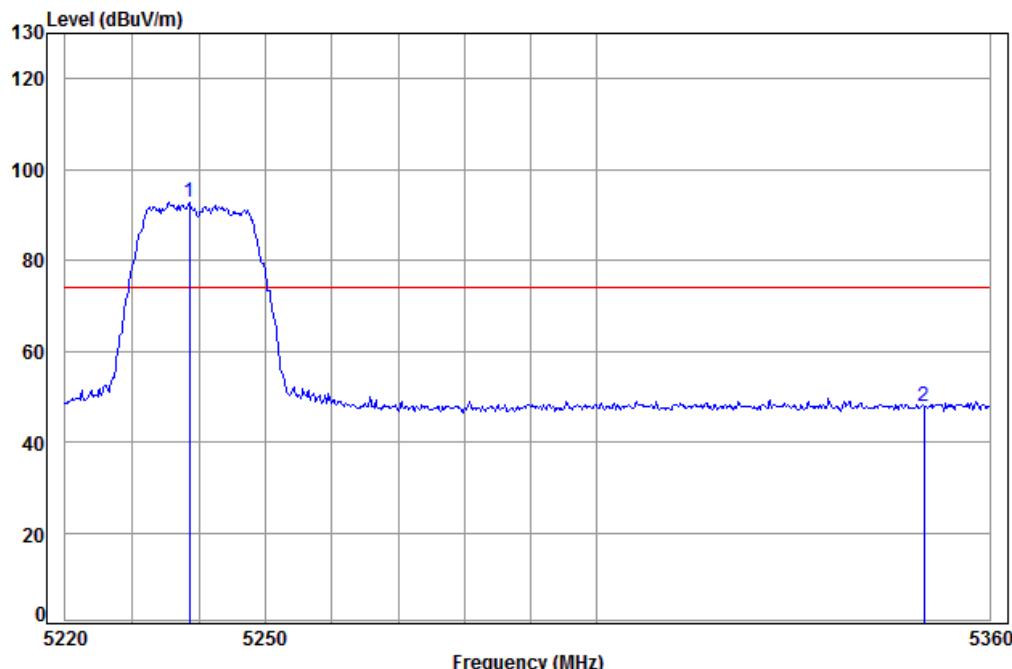
	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	50.51	53.84	74.00 -20.16
2 pp	5178.34	8.09	34.03	38.82	103.46	106.76	74.00 32.76

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 217 of 306

Test mode:	802.11a	Frequency(MHz):	5240	Remark:	Peak	Vertical
------------	---------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No. : 0659CR

Mode: : 5240 Band edge
 : A20

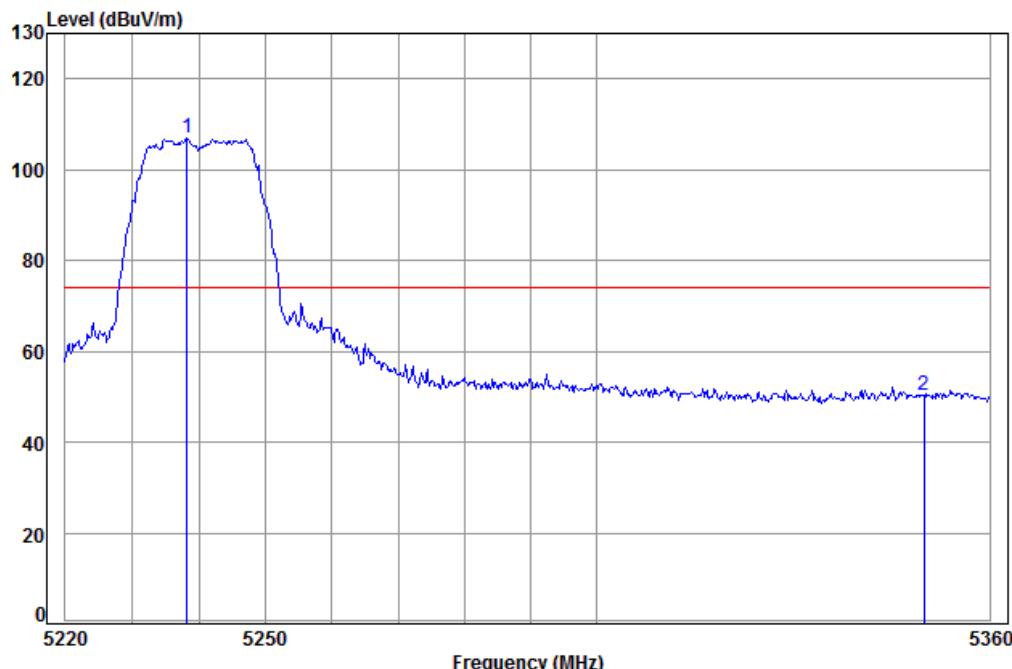
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5238.55	8.12	34.08	38.83	89.49	92.86	74.00 18.86
2	5350.00	8.18	34.30	38.85	44.22	47.85	74.00 -26.15

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 218 of 306

Test mode:	802.11a	Frequency(MHz):	5240	Remark:	Peak	Horizontal
------------	---------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No. : 0659CR

Mode: : 5240 Band edge
 : A20

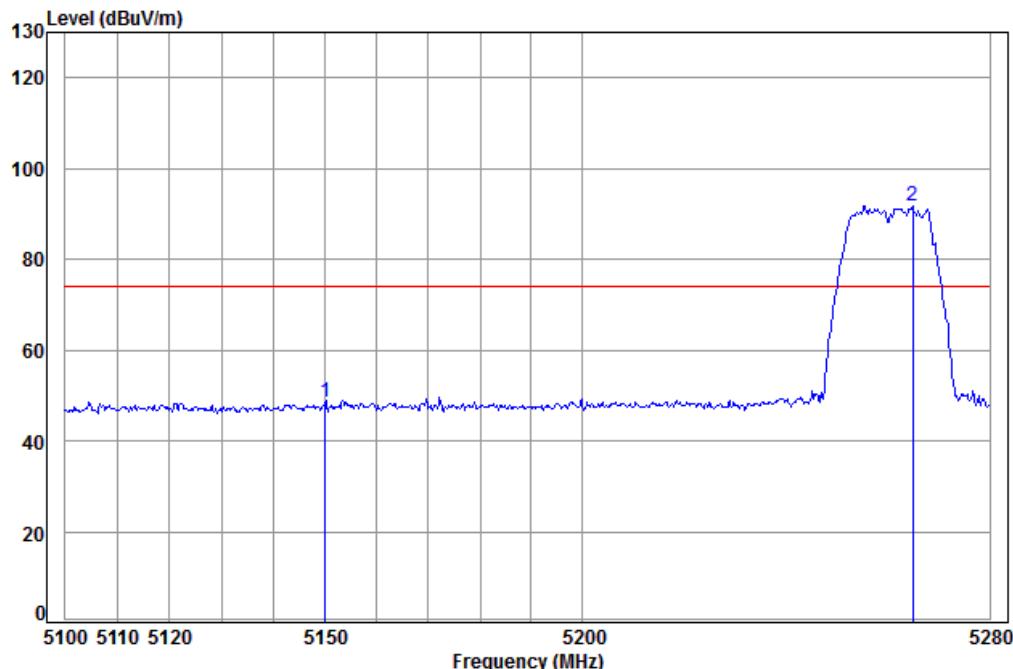
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5238.27	8.12	34.08	38.83	103.75	107.12	74.00	33.12
2	5350.00	8.18	34.30	38.85	46.75	50.38	74.00	-23.62

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 219 of 306

Test mode:	802.11a	Frequency(MHz):	5260	Remark:	Peak	Vertical
------------	---------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No.: 0659CR

Mode: 5260 Band edge
 : A20

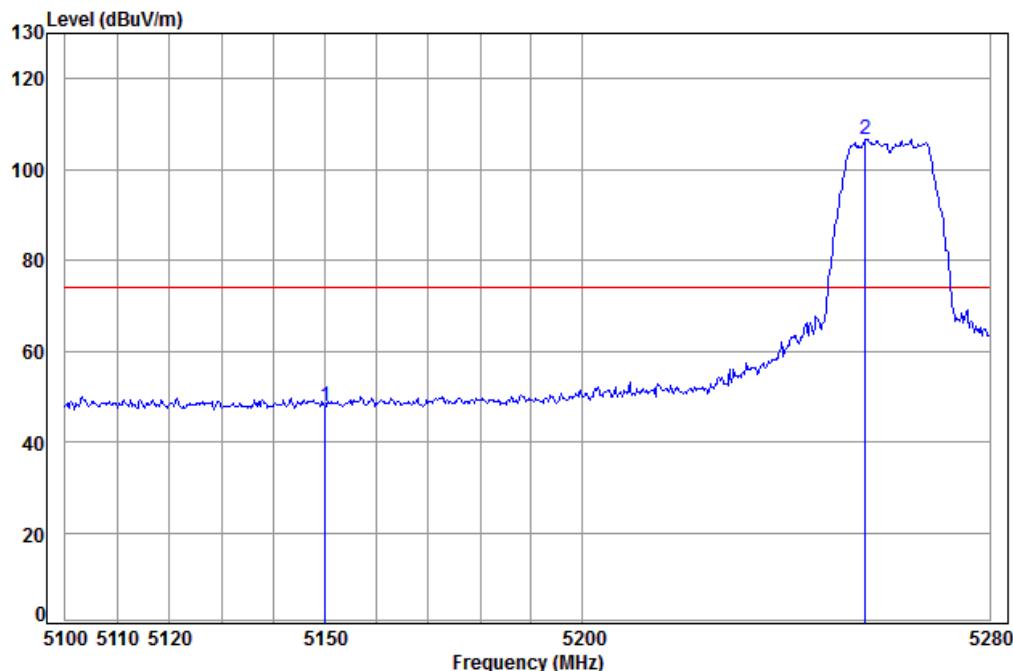
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	45.05	48.38	74.00	-25.62
2 pp	5264.82	8.14	34.13	38.84	88.45	91.88	74.00	17.88

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 220 of 306

Test mode:	802.11a	Frequency(MHz):	5260	Remark:	Peak	Horizontal
------------	---------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5260 Band edge
 : A20

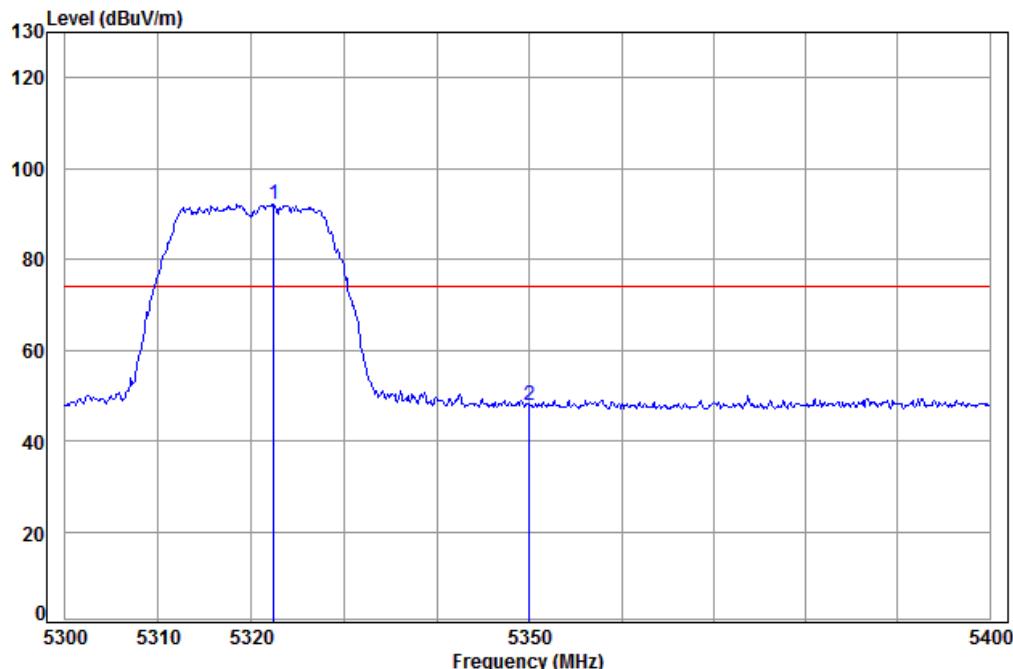
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	44.58	47.91	74.00	-26.09
2 pp	5255.52	8.13	34.11	38.84	103.39	106.79	74.00	32.79

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 221 of 306

Test mode:	802.11a	Frequency(MHz):	5320	Remark:	Peak	Vertical
------------	---------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No.: 0659CR

Mode: 5320 Band edge
 : A20

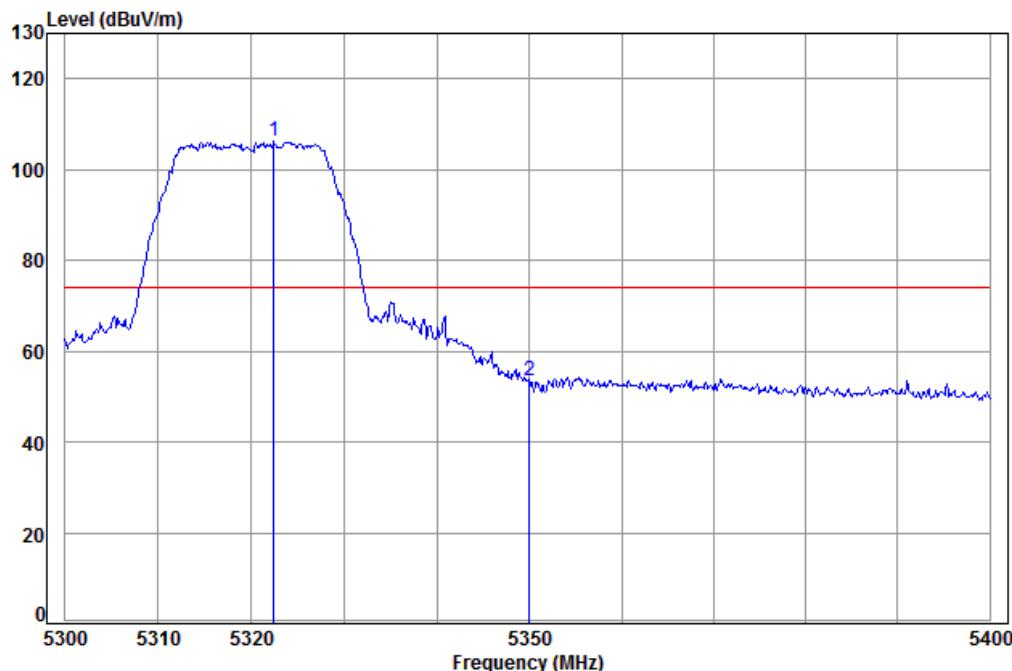
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5322.44	8.16	34.25	38.85	88.53	92.09	74.00	18.09
2	5350.00	8.18	34.30	38.85	44.31	47.94	74.00	-26.06

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 222 of 306

Test mode:	802.11a	Frequency(MHz):	5320	Remark:	Peak	Horizontal
------------	---------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No. : 0659CR

Mode: : 5320 Band edge
: A20

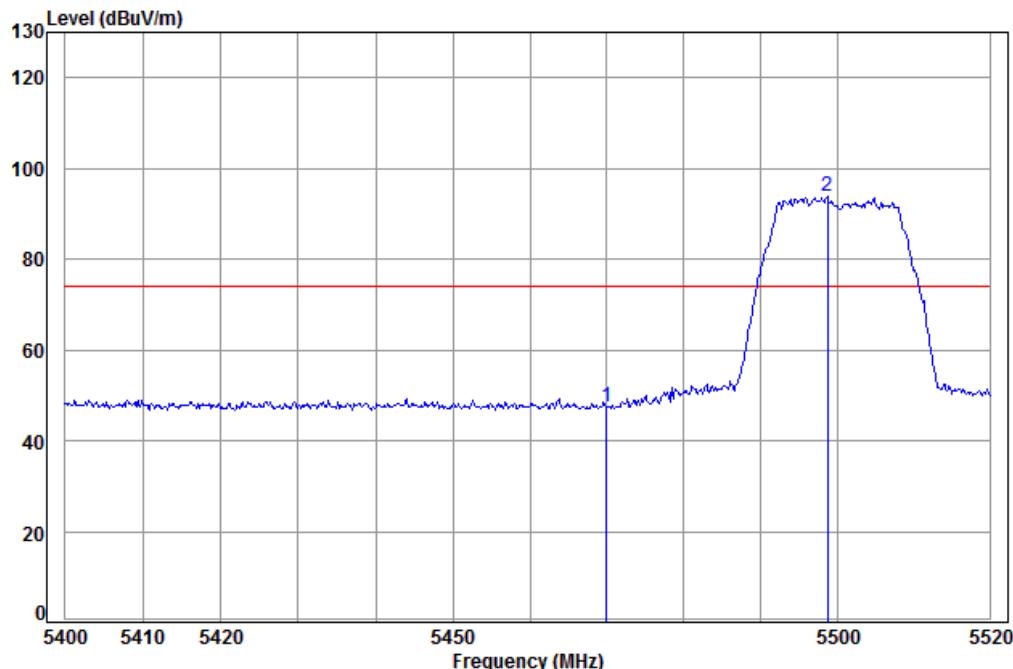
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5322.44	8.16	34.25	38.85	102.55	106.11	74.00	32.11
2	5350.00	8.18	34.30	38.85	49.78	53.41	74.00	-20.59

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 223 of 306

Test mode:	802.11a	Frequency(MHz):	5500	Remark:	Peak	Vertical
------------	---------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No.: 0659CR

Mode: 5500 Band edge
A20

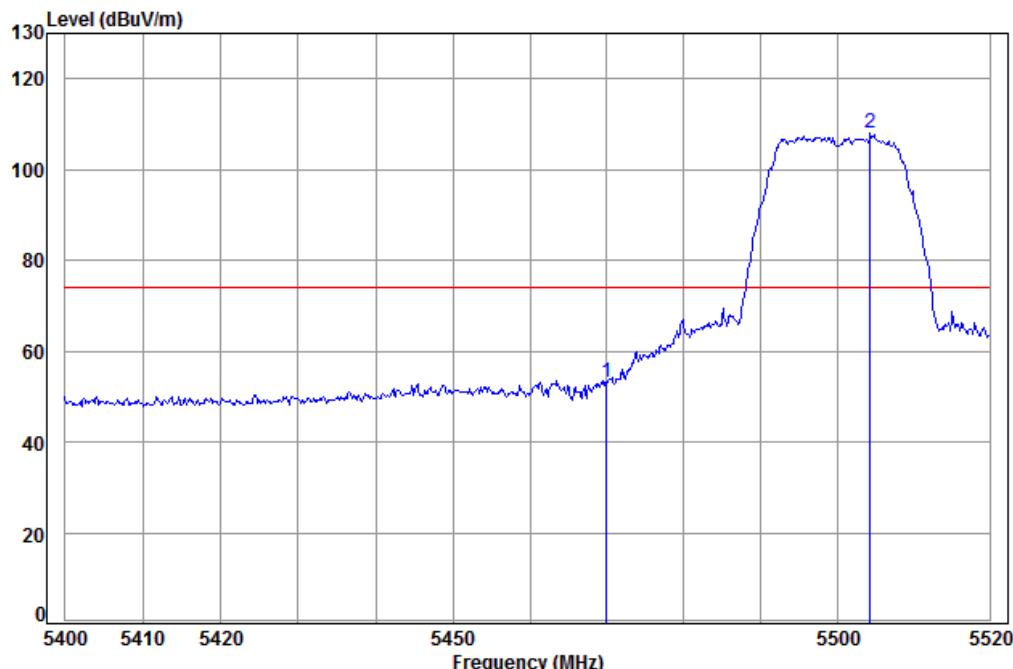
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	43.67	47.40	74.00	-26.60
2 pp	5498.81	8.25	34.35	38.88	89.97	93.69	74.00	19.69

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 224 of 306

Test mode:	802.11a	Frequency(MHz):	5500	Remark:	Peak	Horizontal
------------	---------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No. : 0659CR

Mode: : 5500 Band edge

: A20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	49.38	53.11	74.00	-20.89
2 pp	5504.37	8.25	34.35	38.88	104.18	107.90	74.00	33.90



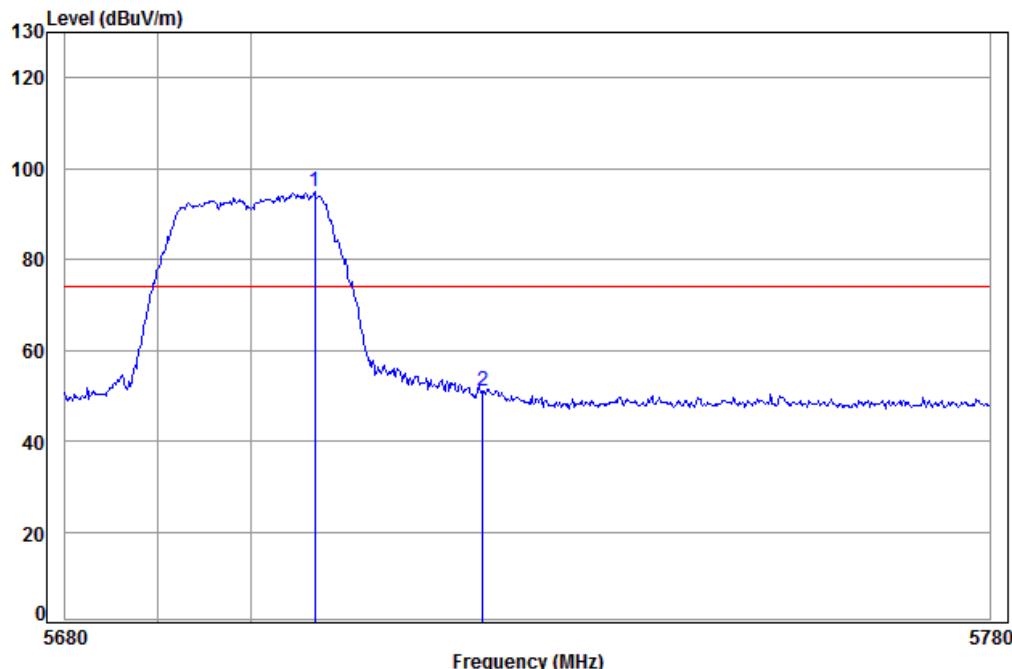
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 225 of 306

Test mode:	802.11a	Frequency(MHz):	5700	Remark:	Peak	Vertical
------------	---------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No. : 0659CR

Mode: : 5700 Band edge
: A20

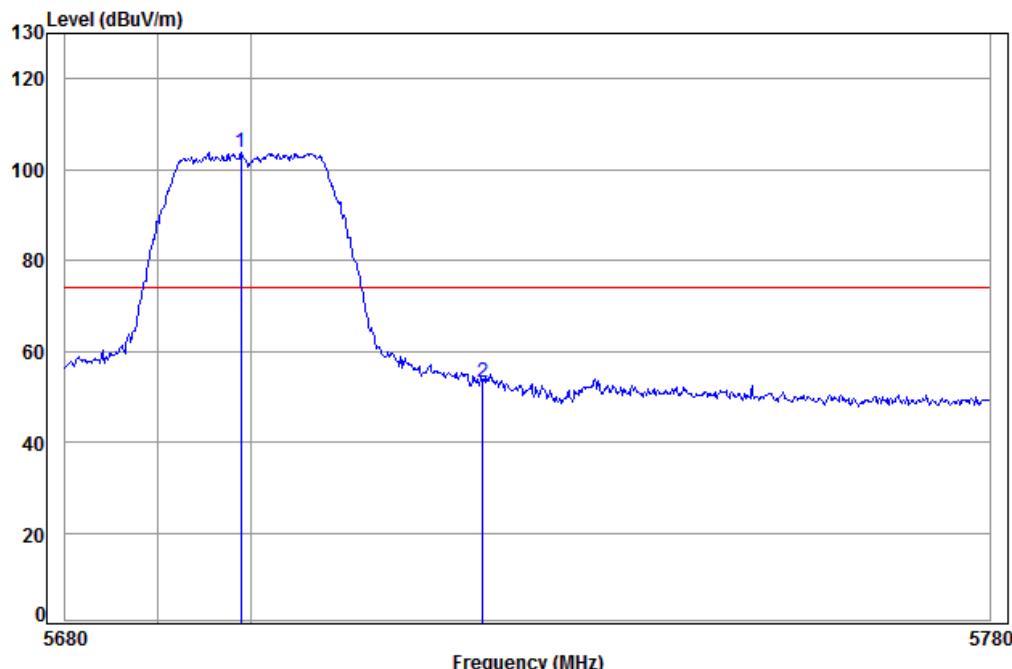
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5706.83	8.46	34.25	38.91	91.01	94.81	74.00	20.81
2	5725.00	8.48	34.24	38.92	47.35	51.15	74.00	-22.85

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 226 of 306

Test mode:	802.11a	Frequency(MHz):	5700	Remark:	Peak	Horizontal
------------	---------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No. : 0659CR

Mode: : 5700 Band edge
 : A20

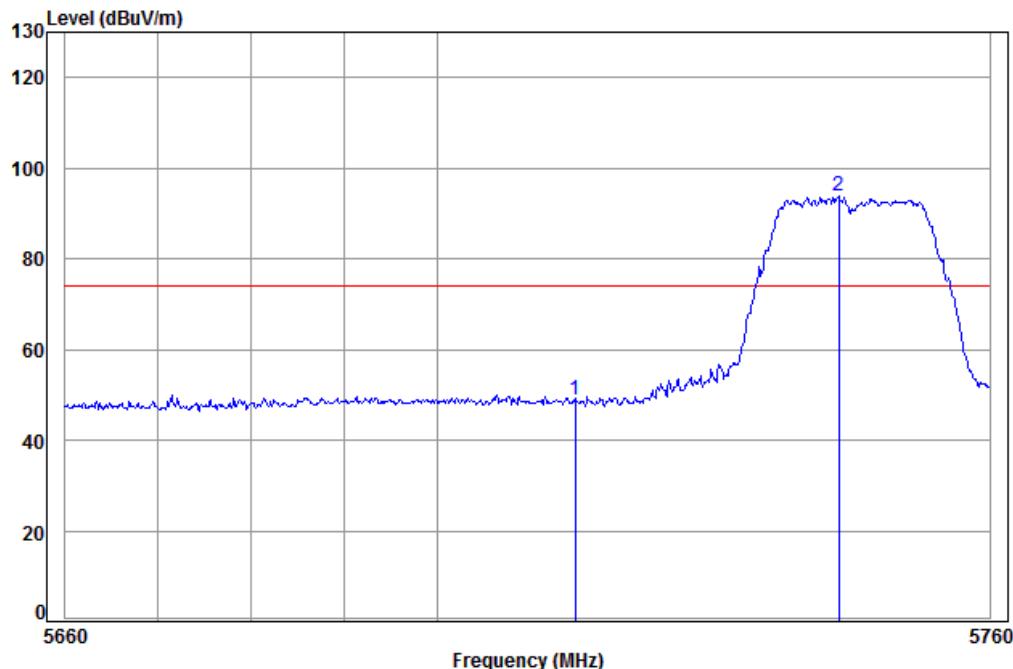
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5698.87	8.45	34.25	38.91	100.09	103.88	74.00	29.88
2	5725.00	8.48	34.24	38.92	49.46	53.26	74.00	-20.74

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 227 of 306

Test mode:	802.11a	Frequency(MHz):	5745	Remark:	Peak	Vertical
------------	---------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No.: 0659CR

Mode: 5745 Band edge
 : A20

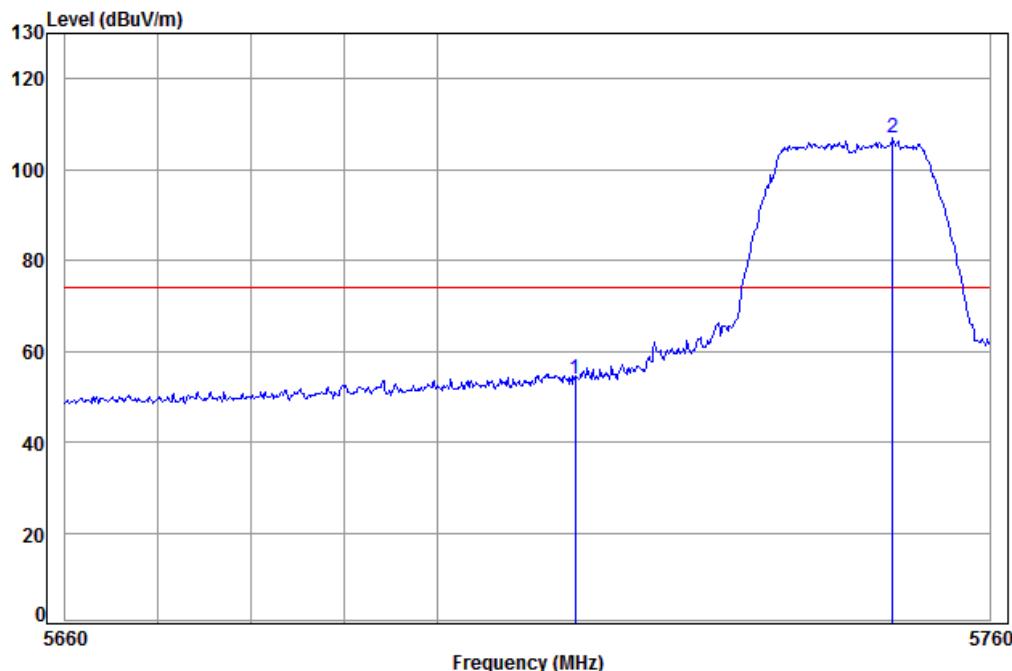
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	8.47	34.24	38.91	45.14	48.94	74.00	-25.06
2 pp	5743.58	8.50	34.23	38.92	90.01	93.82	74.00	19.82

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 228 of 306

Test mode:	802.11a	Frequency(MHz):	5745	Remark:	Peak	Horizontal
------------	---------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5745 Band edge
A20

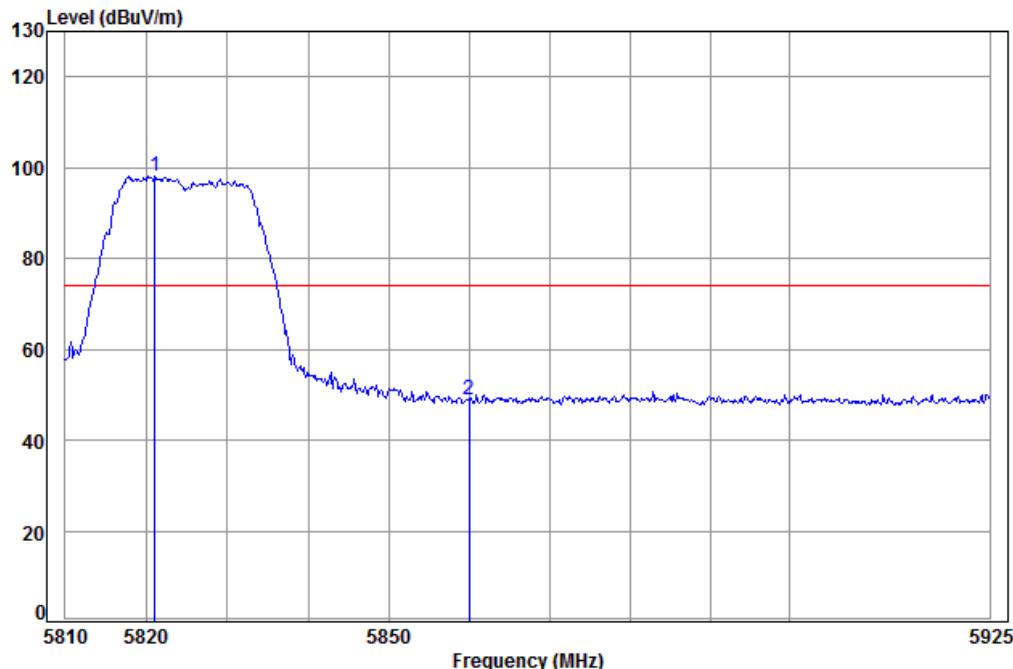
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	8.47	34.24	38.91	49.93	53.73	74.00	-20.27
2 pp	5749.42	8.50	34.22	38.92	103.00	106.80	74.00	32.80

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 229 of 306

Test mode:	802.11a	Frequency(MHz):	5825	Remark:	Peak	Vertical
------------	---------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No. : 0659CR

Mode: : 5825 Band edge

: A20

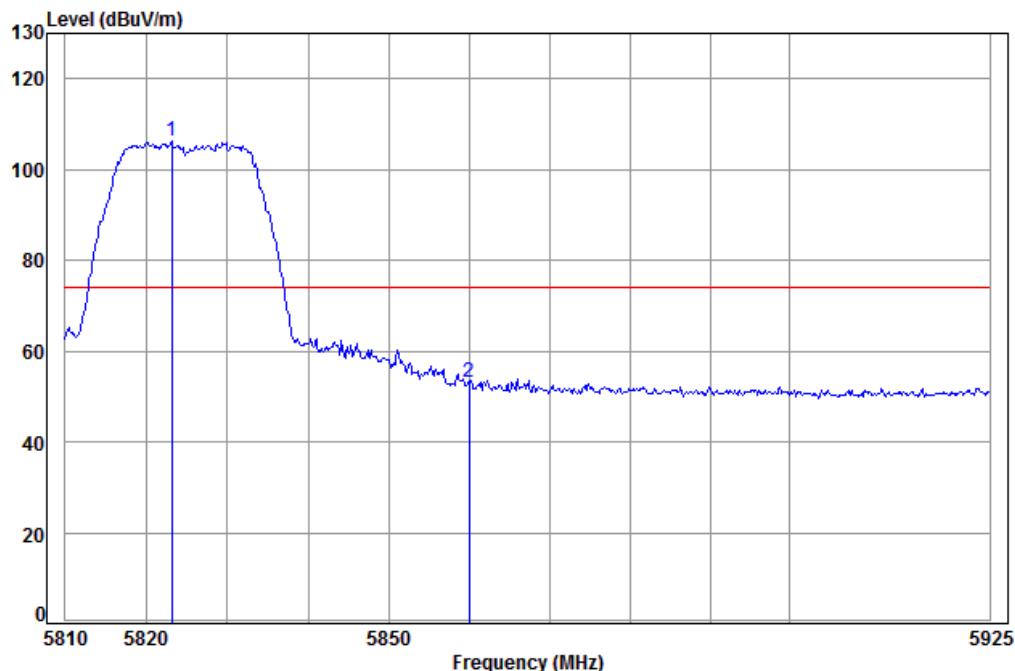
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5821.06	8.58	34.25	38.93	94.24	98.14	74.00	24.14
2	5860.00	8.61	34.35	38.94	44.94	48.96	74.00	-25.04

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 230 of 306

Test mode:	802.11a	Frequency(MHz):	5785	Remark:	Peak	Horizontal
------------	---------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5825 Band edge
A20

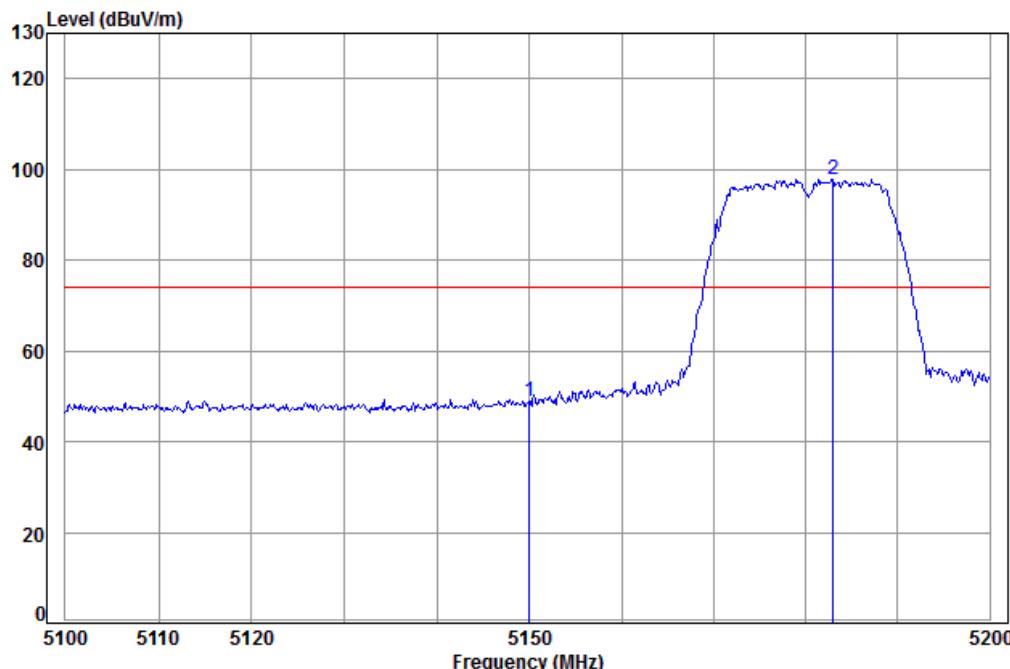
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dB
1 pp	5823.11	8.58	34.26	38.93	102.28	106.19	74.00	32.19
2	5860.00	8.61	34.35	38.94	49.28	53.30	74.00	-20.70

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 231 of 306

Test mode:	802.11 n20	Frequency(MHz):	5180	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No. : 0659CR

Mode: : 5180 Band edge
 : N20

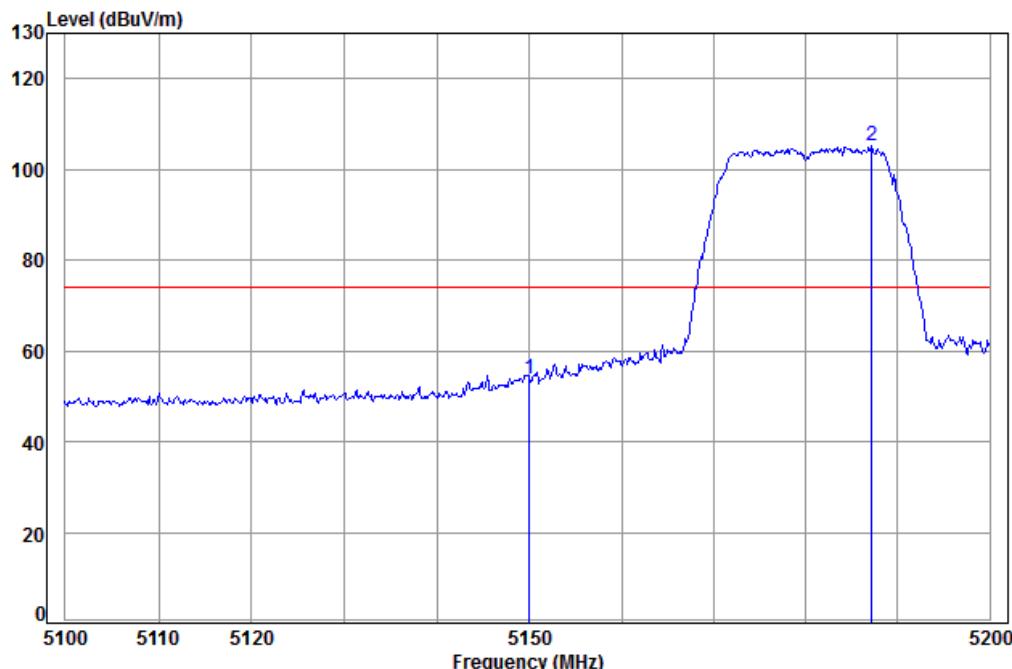
	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	45.70	49.03	74.00	-24.97
2 pp	5182.96	8.09	34.03	38.82	94.51	97.81	74.00	23.81

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 232 of 306

Test mode:	802.11 n20	Frequency(MHz):	5180	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

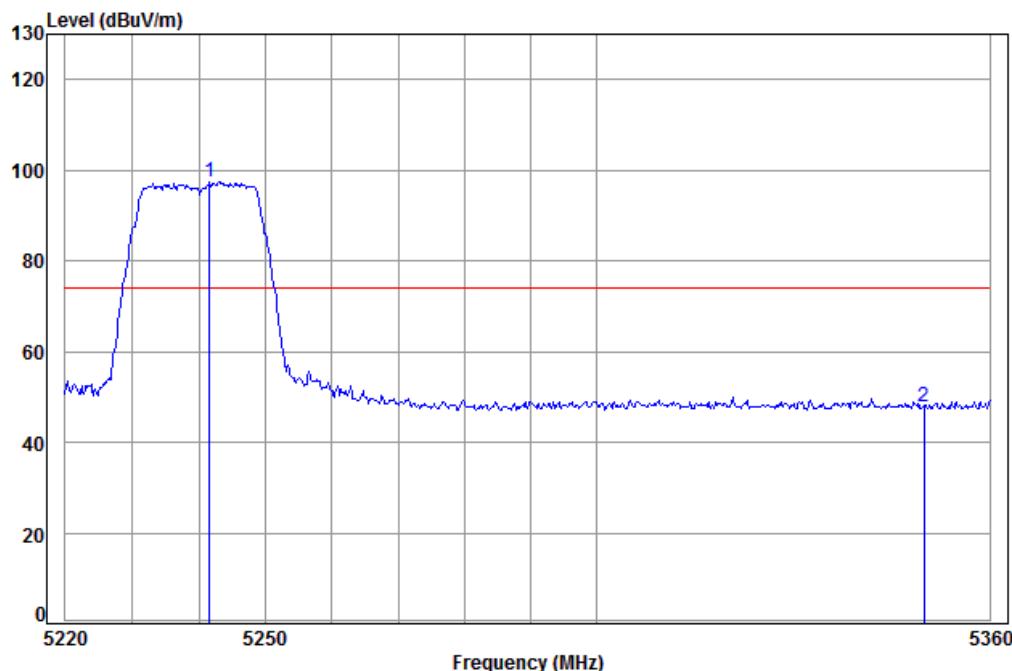
Job No.: 0659CR

Mode: 5180 Band edge
: N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	50.49	53.82	74.00	-20.18
2 pp	5187.19	8.10	34.02	38.82	101.86	105.16	74.00	31.16



Test mode:	802.11 n20	Frequency(MHz):	5240	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5240 Band edge
: N20

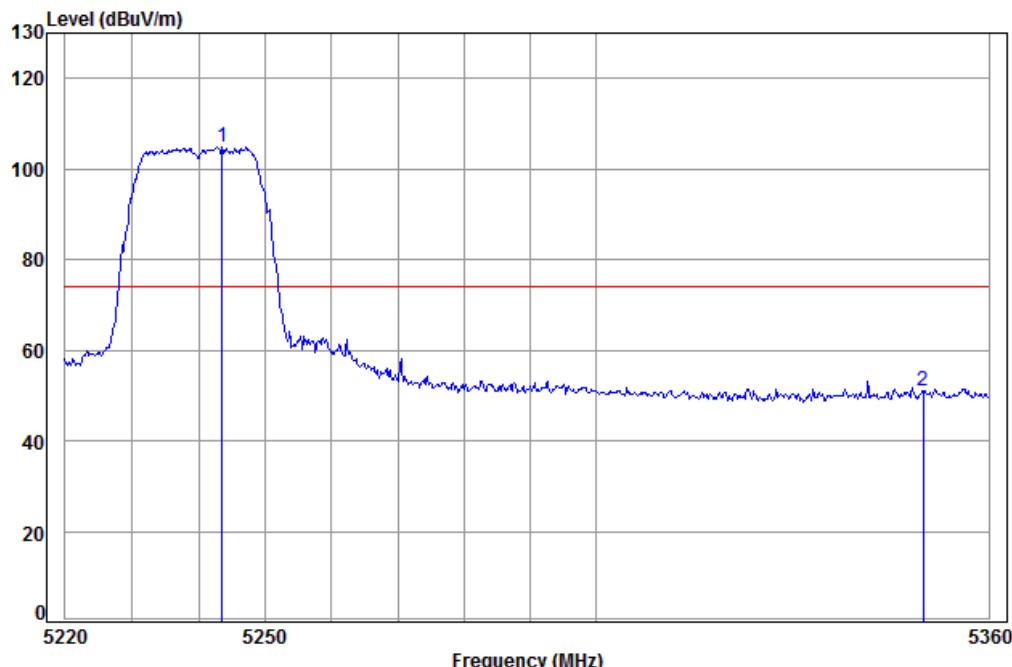
Freq	Cable	Ant	Preamp	Read	Limit	Over		
	Loss	Factor	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5241.60	8.12	34.08	38.83	93.90	97.27	74.00	23.27
2	5350.00	8.18	34.30	38.85	44.33	47.96	74.00	-26.04

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 234 of 306

Test mode:	802.11 n20	Frequency(MHz):	5240	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No. : 0659CR

Mode: : 5240 Band edge
: N20

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	5243.54	8.12	34.09	38.83	101.35	104.73	74.00 30.73
2	5350.00	8.18	34.30	38.85	47.48	51.11	74.00 -22.89

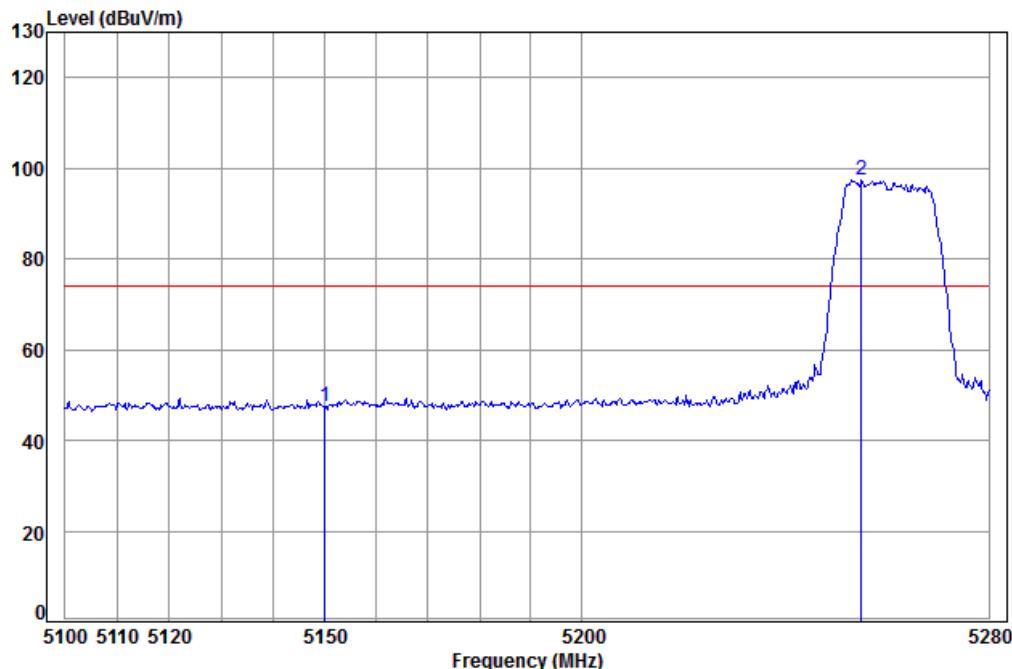


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 235 of 306

Test mode:	802.11 n20	Frequency(MHz):	5260	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No.: 0659CR

Mode: 5260 Band edge
: N20

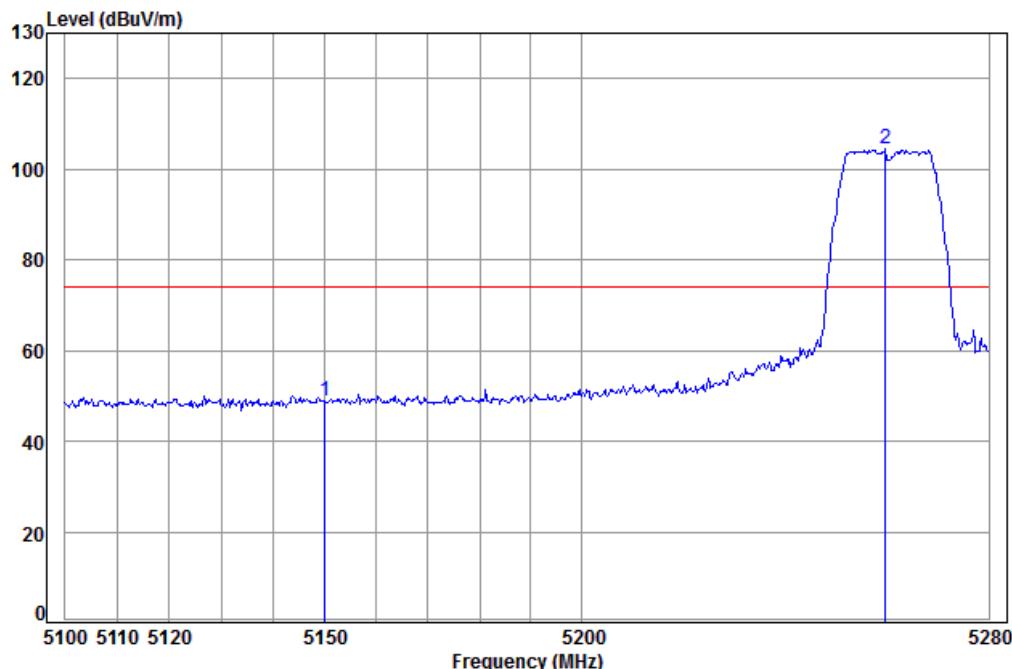
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	44.08	47.41	74.00	-26.59
2 pp	5254.79	8.13	34.11	38.84	94.01	97.41	74.00	23.41

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 236 of 306

Test mode:	802.11 n20	Frequency(MHz):	5260	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5260 Band edge
 : N20

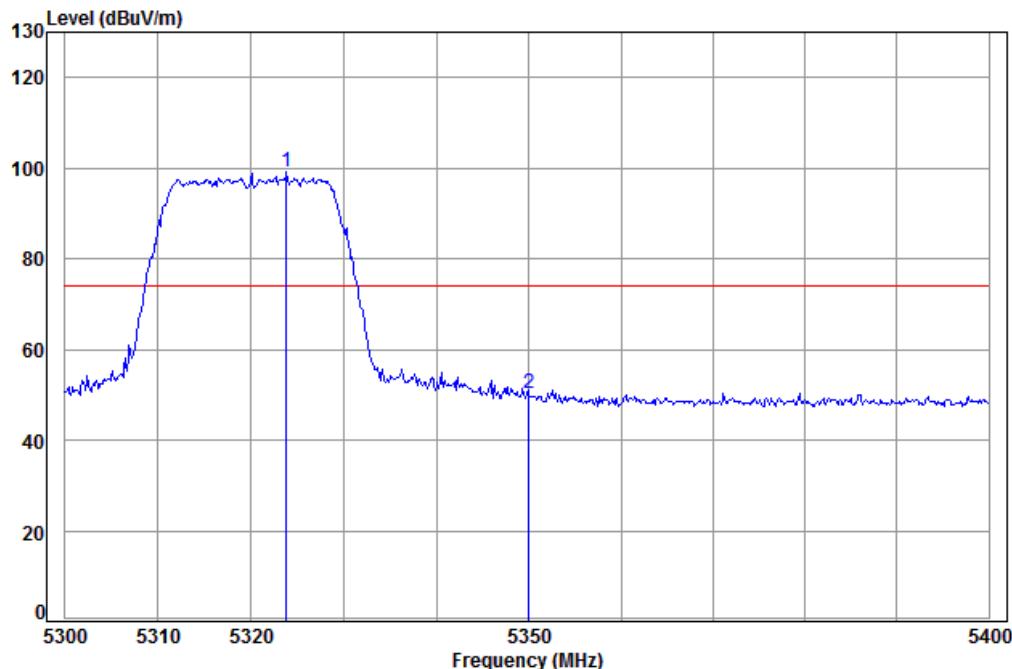
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	45.52	48.85	74.00	-25.15
2 pp	5259.53	8.13	34.12	38.84	101.12	104.53	74.00	30.53

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 237 of 306

Test mode:	802.11 n20	Frequency(MHz):	5320	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5320 Band edge
: N20

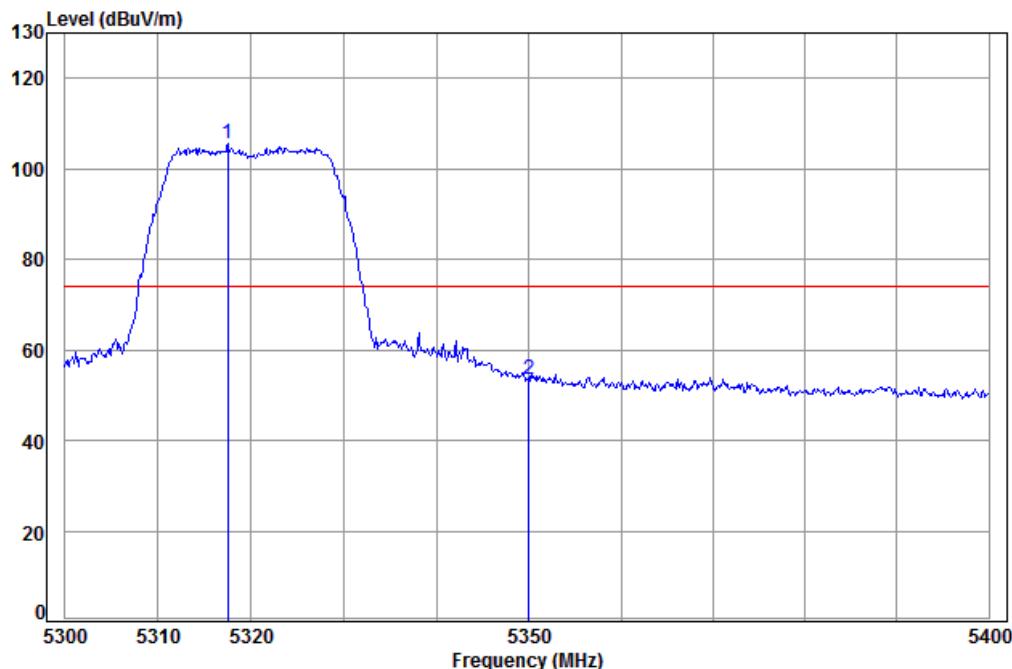
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5323.83	8.16	34.25	38.85	95.55	99.11	74.00	25.11
2	5350.00	8.18	34.30	38.85	46.63	50.26	74.00	-23.74

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 238 of 306

Test mode:	802.11 n20	Frequency(MHz):	5320	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5320 Band edge
: N20

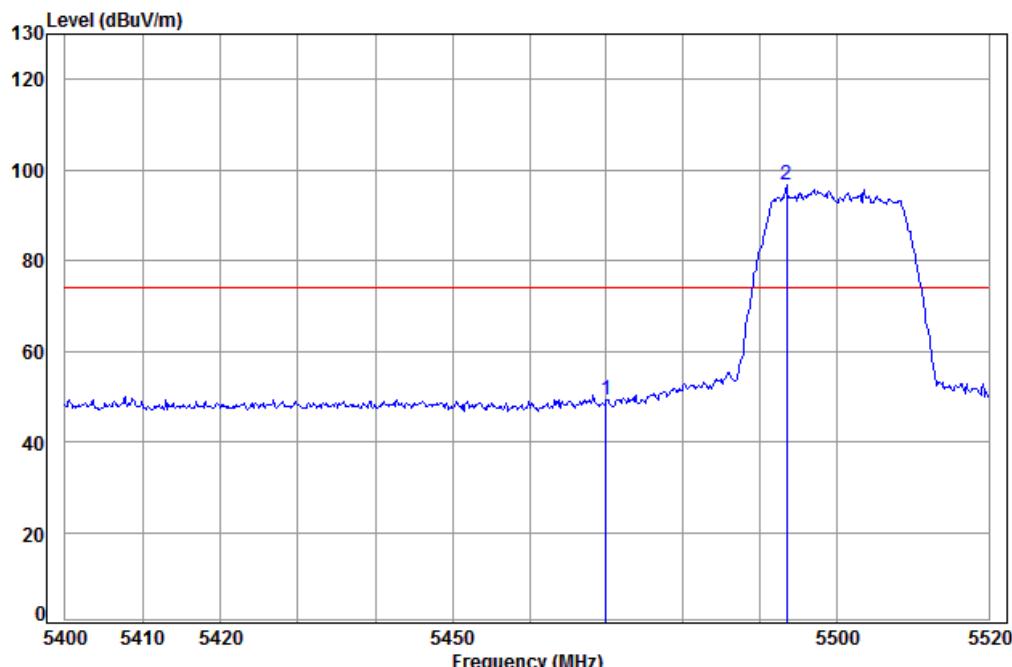
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5317.47	8.16	34.24	38.85	101.92	105.47	74.00	31.47
2	5350.00	8.18	34.30	38.85	49.91	53.54	74.00	-20.46

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 239 of 306

Test mode:	802.11 n20	Frequency(MHz):	5500	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No.: 0659CR

Mode: 5500 Band edge
 : N20

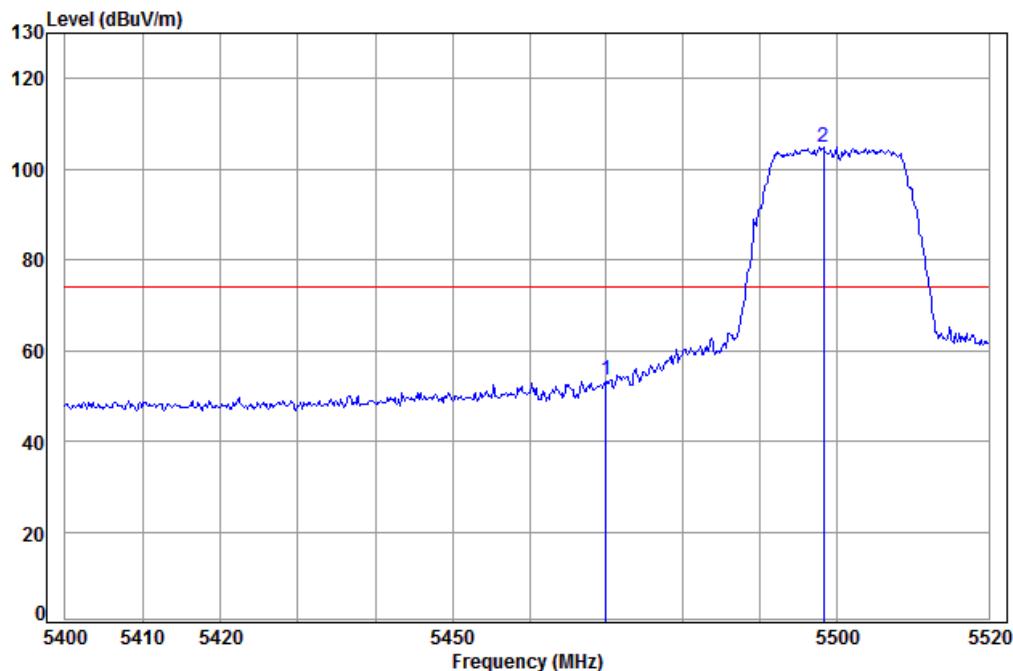
	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	45.49	49.22	74.00	-24.78
2 pp	5493.49	8.25	34.35	38.88	93.06	96.78	74.00	22.78

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 240 of 306

Test mode:	802.11 n20	Frequency(MHz):	5500	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5500 Band edge
: N20

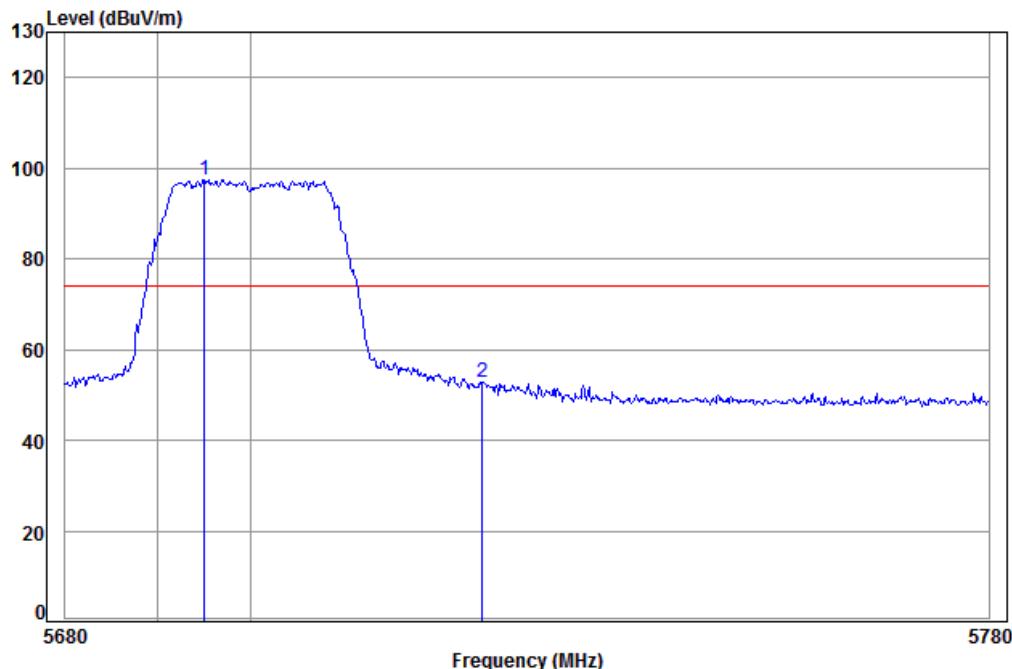
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	49.84	53.57	74.00	-20.43
2 pp	5498.33	8.25	34.35	38.88	101.16	104.88	74.00	30.88

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 241 of 306

Test mode:	802.11 n20	Frequency(MHz):	5700	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5700 Band edge
 : N20

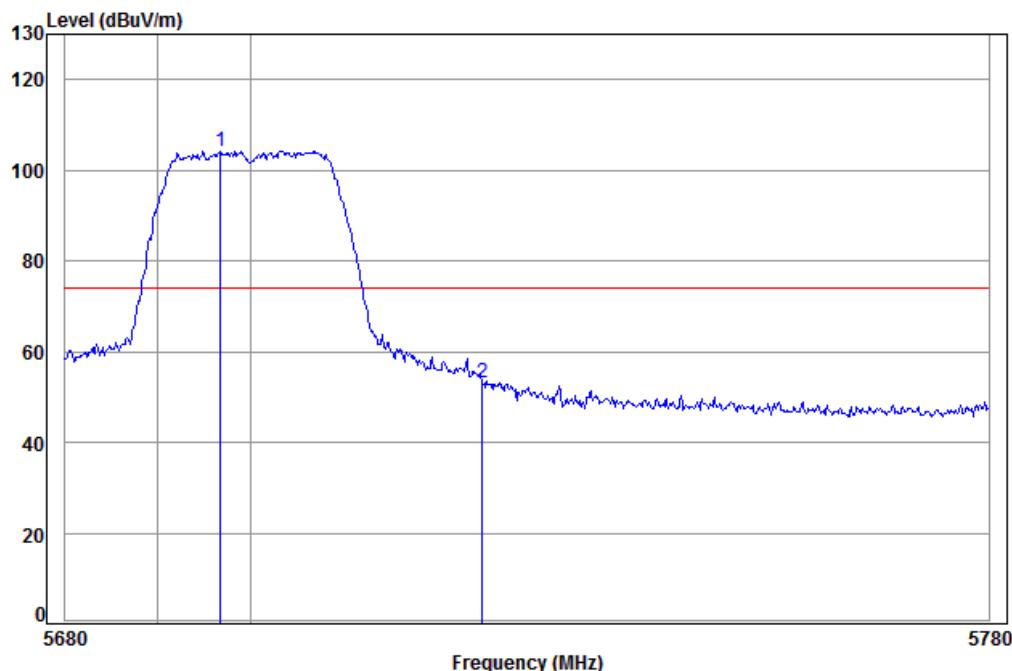
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5694.99	8.45	34.25	38.91	93.79	97.58	74.00	23.58
2	5725.00	8.48	34.24	38.92	48.81	52.61	74.00	-21.39

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 242 of 306

Test mode:	802.11 n20	Frequency(MHz):	5700	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5700 Band edge
: N20

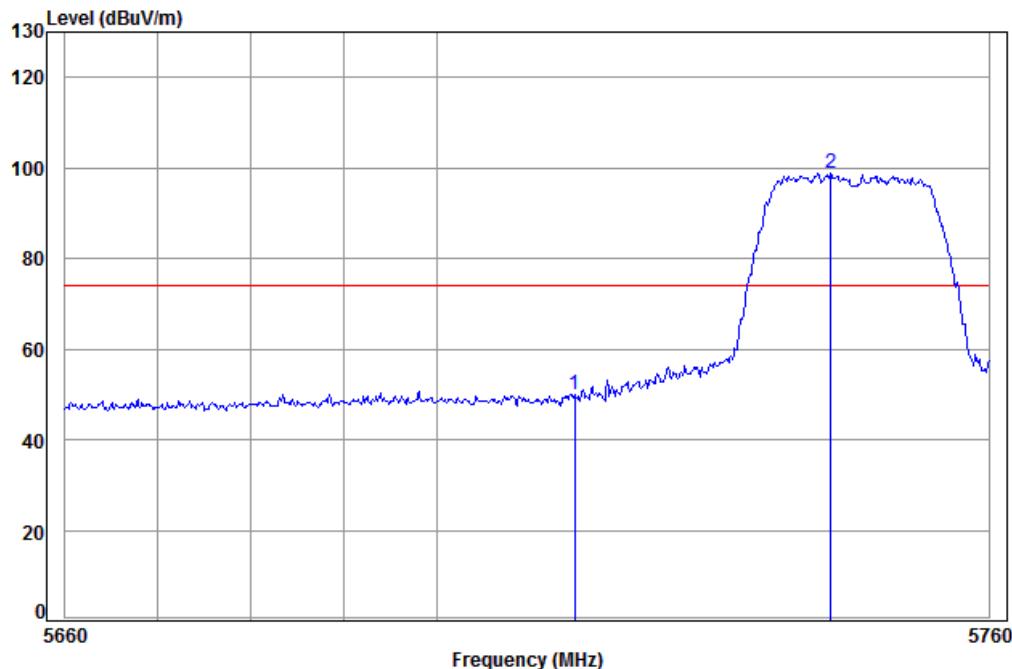
Freq	Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5696.68	8.45	34.25	38.91	100.50	104.29	74.00	30.29
2	5725.00	8.48	34.24	38.92	49.44	53.24	74.00	-20.76

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 243 of 306

Test mode:	802.11 n20	Frequency(MHz):	5745	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5745 Band edge
: N20

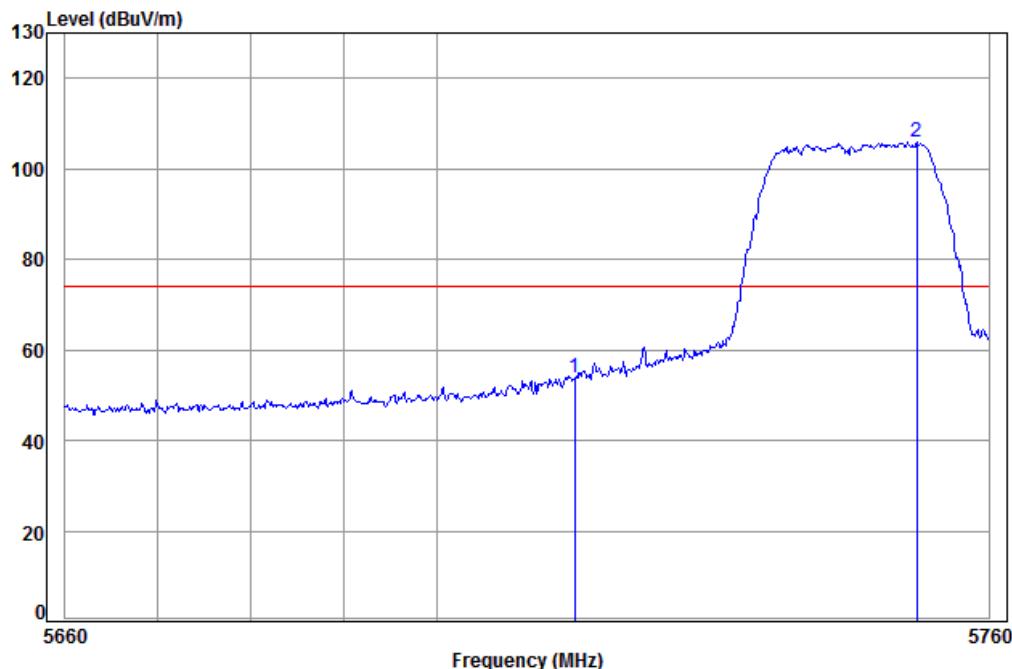
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	8.47	34.24	38.91	46.18	49.98	74.00	-24.02
2 pp	5742.78	8.50	34.23	38.92	95.02	98.83	74.00	24.83

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 244 of 306

Test mode:	802.11 n20	Frequency(MHz):	5745	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5745 Band edge
: N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	8.47	34.24	38.91	49.97	53.77	74.00	-20.23
2 pp	5752.14	8.51	34.22	38.92	102.00	105.81	74.00	31.81



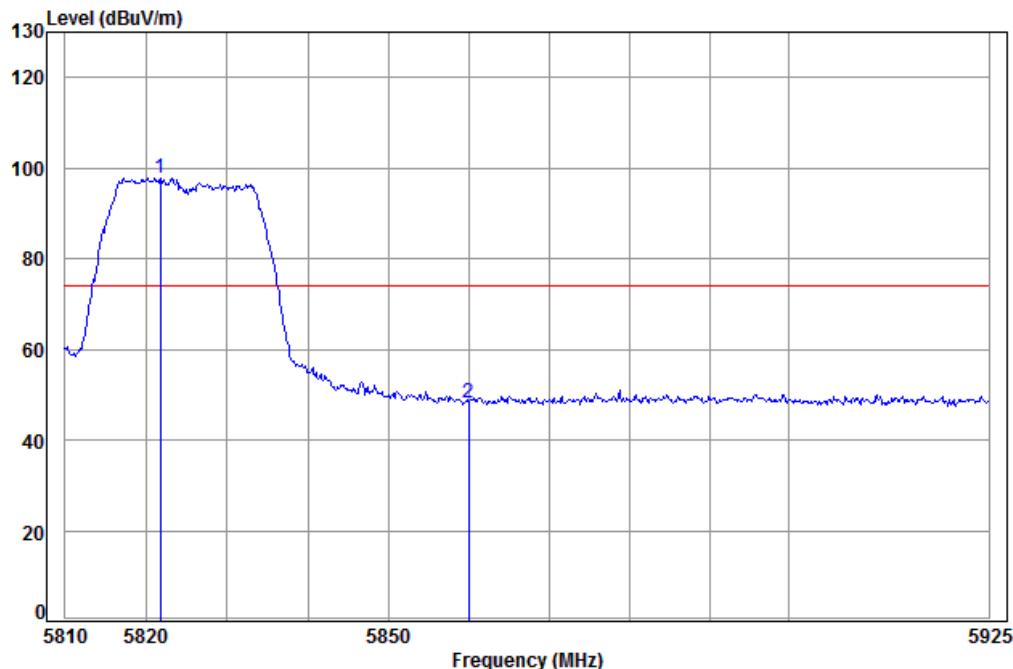
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 245 of 306

Test mode:	802.11 n20	Frequency(MHz):	5825	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5825 Band edge
: N20

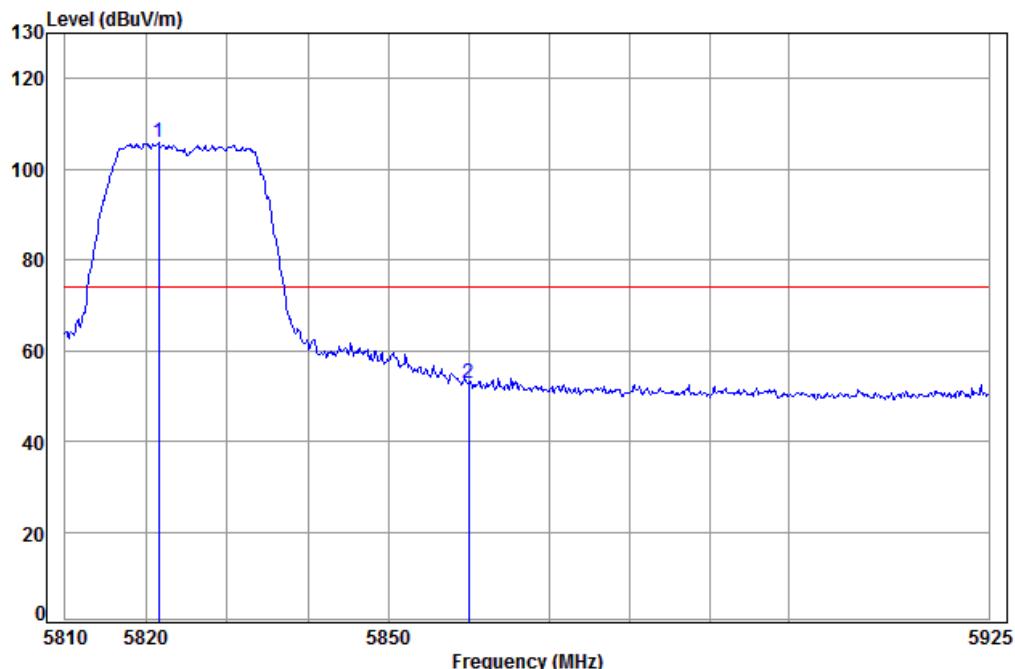
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5821.74	8.58	34.26	38.93	94.02	97.93	74.00	23.93
2	5860.00	8.61	34.35	38.94	44.20	48.22	74.00	-25.78

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 246 of 306

Test mode:	802.11 n20	Frequency(MHz):	5825	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No. : 0659CR

Mode: : 5825 Band edge
: N20

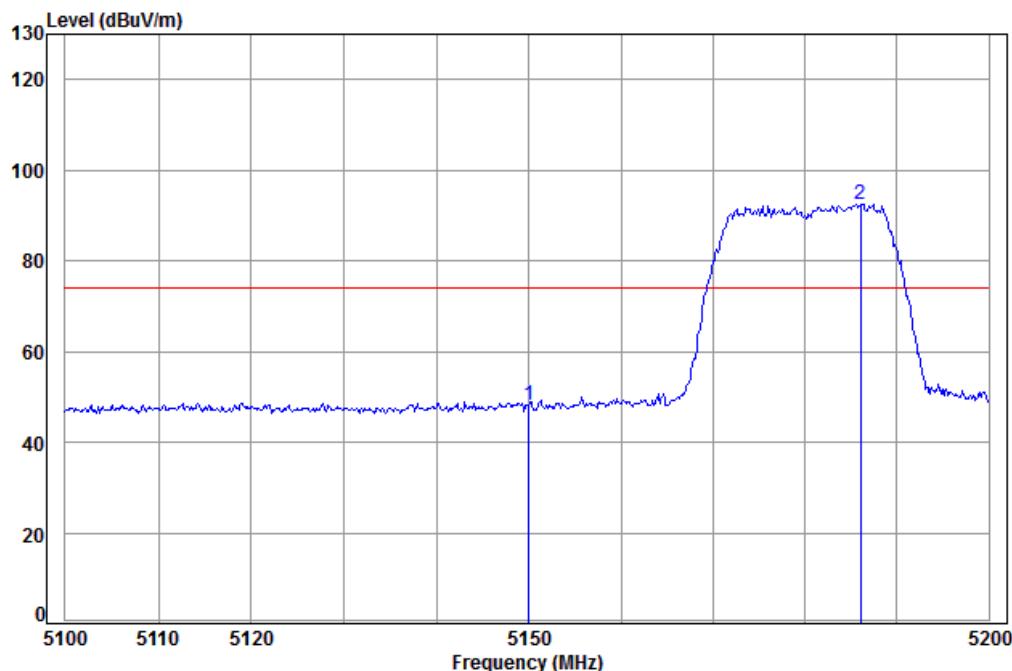
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5821.51	8.58	34.25	38.93	101.85	105.75	74.00	31.75
2	5860.00	8.61	34.35	38.94	48.84	52.86	74.00	-21.14

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 247 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5180	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5180 Band edge
 : AC20

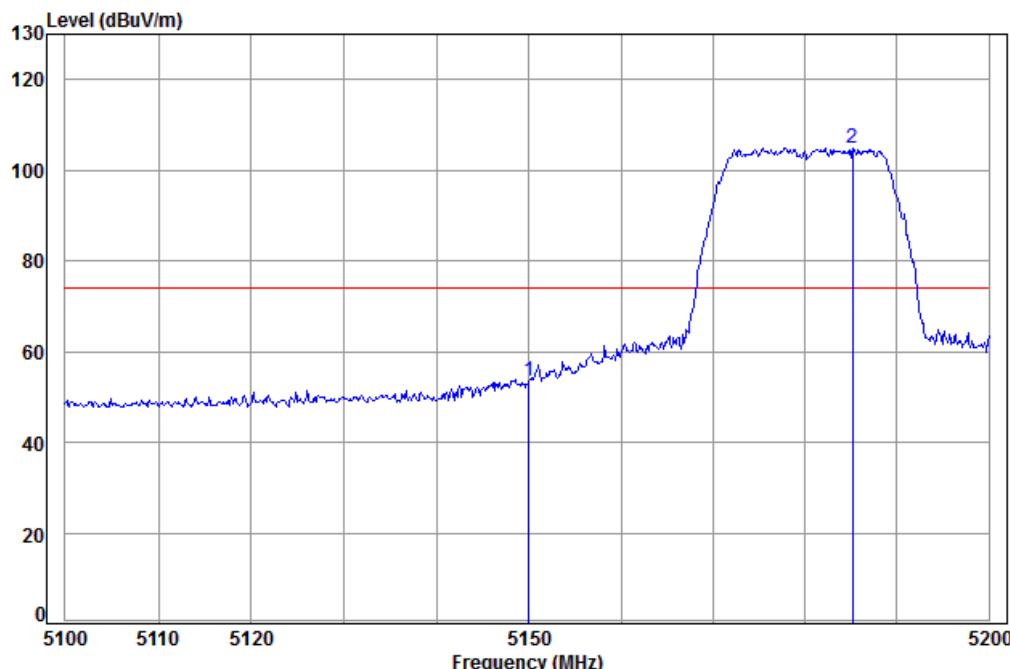
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	44.98	48.31	74.00	-25.69
2 pp	5185.98	8.10	34.02	38.82	89.32	92.62	74.00	18.62

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 248 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5180	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5180 Band edge
: AC20

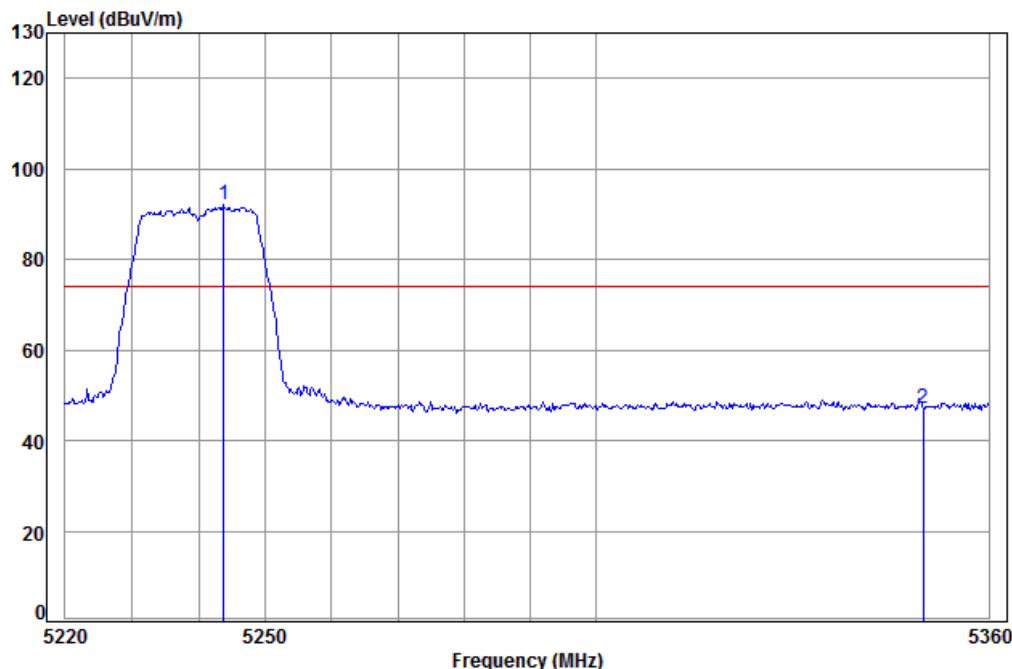
Freq	Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	50.13	53.46	74.00	-20.54
2 pp	5185.18	8.10	34.02	38.82	101.64	104.94	74.00	30.94

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 249 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5240	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No. : 0659CR

Mode: : 5240 Band edge
: AC20

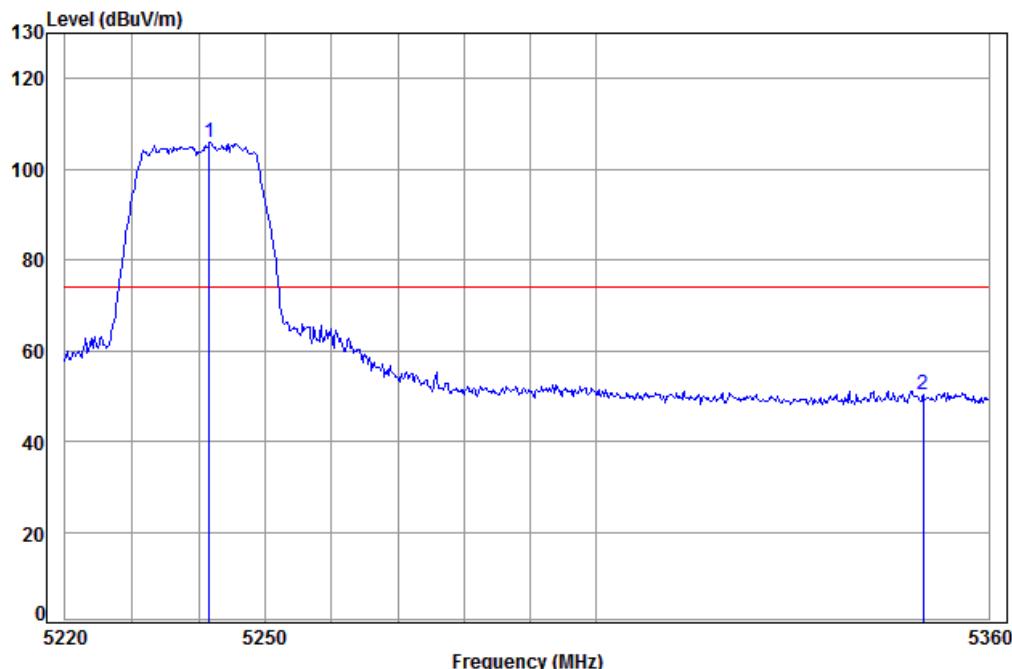
	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5243.82	8.12	34.09	38.83	88.76	92.14	74.00	18.14
2	5350.00	8.18	34.30	38.85	43.42	47.05	74.00	-26.95

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 250 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5240	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5240 Band edge
 : AC20

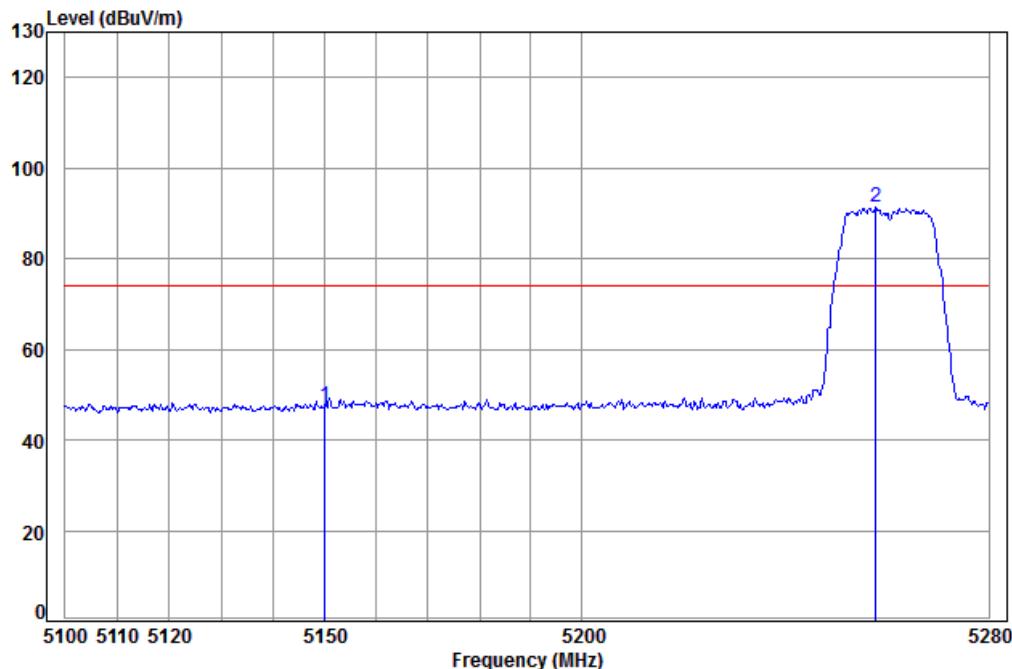
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5241.60	8.12	34.08	38.83	102.42	105.79	74.00	31.79
2	5350.00	8.18	34.30	38.85	46.57	50.20	74.00	-23.80

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 251 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5260	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5260 Band edge
: AC20

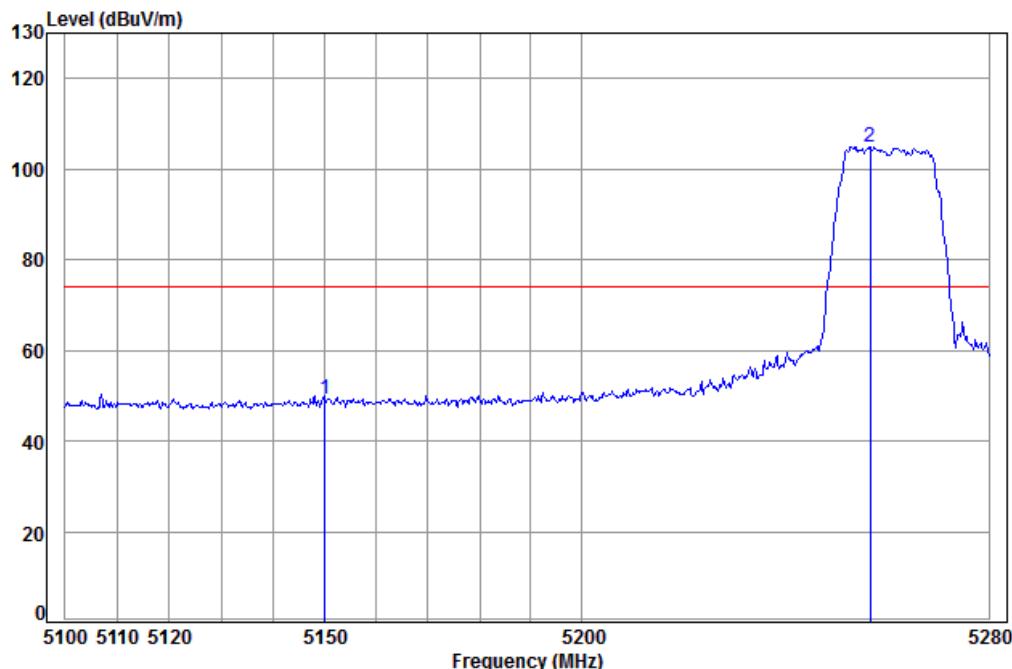
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	44.31	47.64	74.00	-26.36
2 pp	5257.70	8.13	34.12	38.84	88.10	91.51	74.00	17.51

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 252 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5260	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

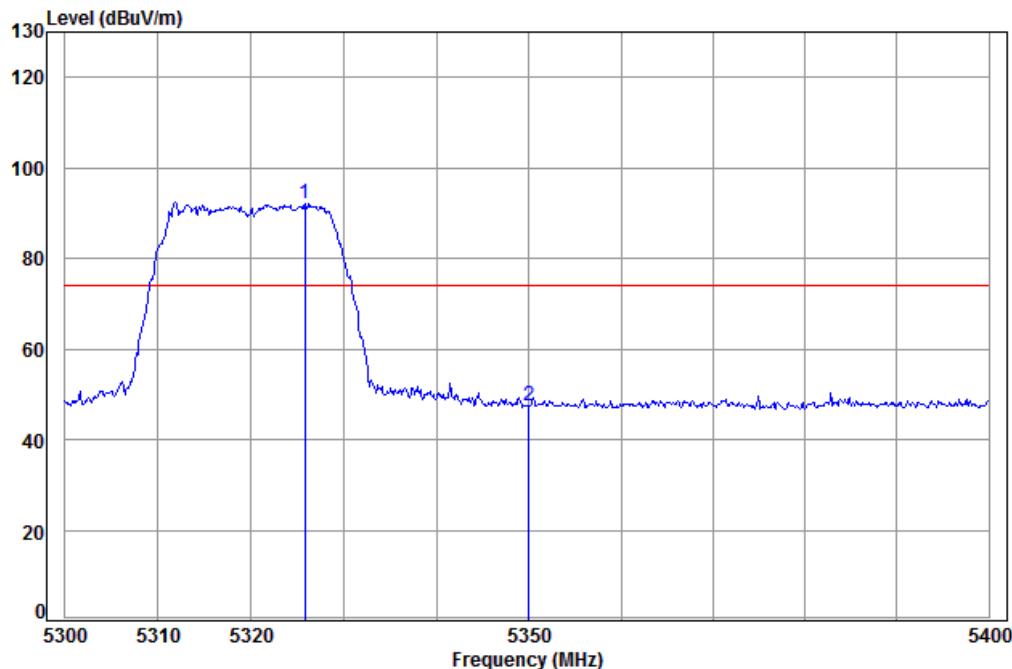
Job No.: 0659CR

Mode: 5260 Band edge
 : AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	45.92	49.25	74.00	-24.75
2 pp	5256.61	8.13	34.11	38.84	101.57	104.97	74.00	30.97



Test mode:	802.11 ac20	Frequency(MHz):	5320	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5320 Band edge
: AC20

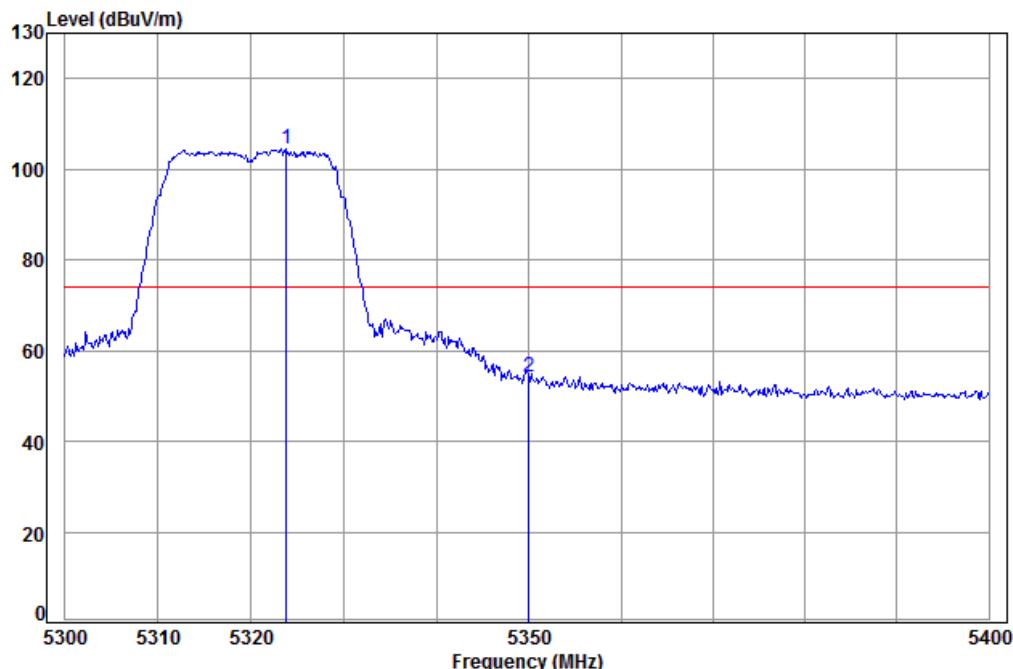
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5325.82	8.17	34.25	38.85	88.41	91.98	74.00	17.98
2	5350.00	8.18	34.30	38.85	43.86	47.49	74.00	-26.51

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 254 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5320	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5320 Band edge
: AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5323.83	8.16	34.25	38.85	100.96	104.52	74.00	30.52
2	5350.00	8.18	34.30	38.85	50.39	54.02	74.00	-19.98



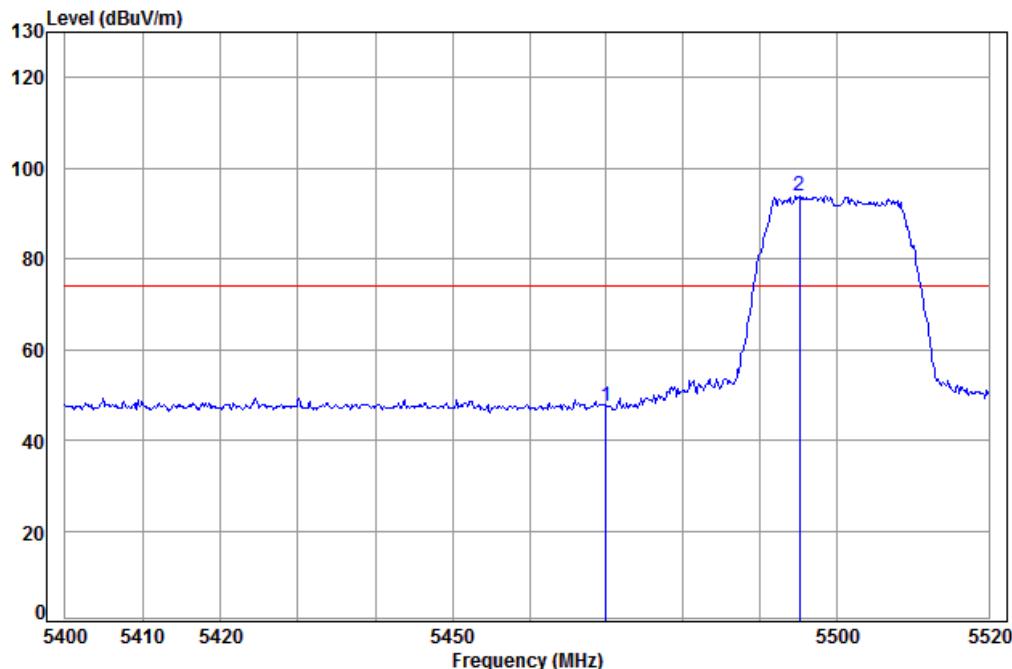
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 255 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5500	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



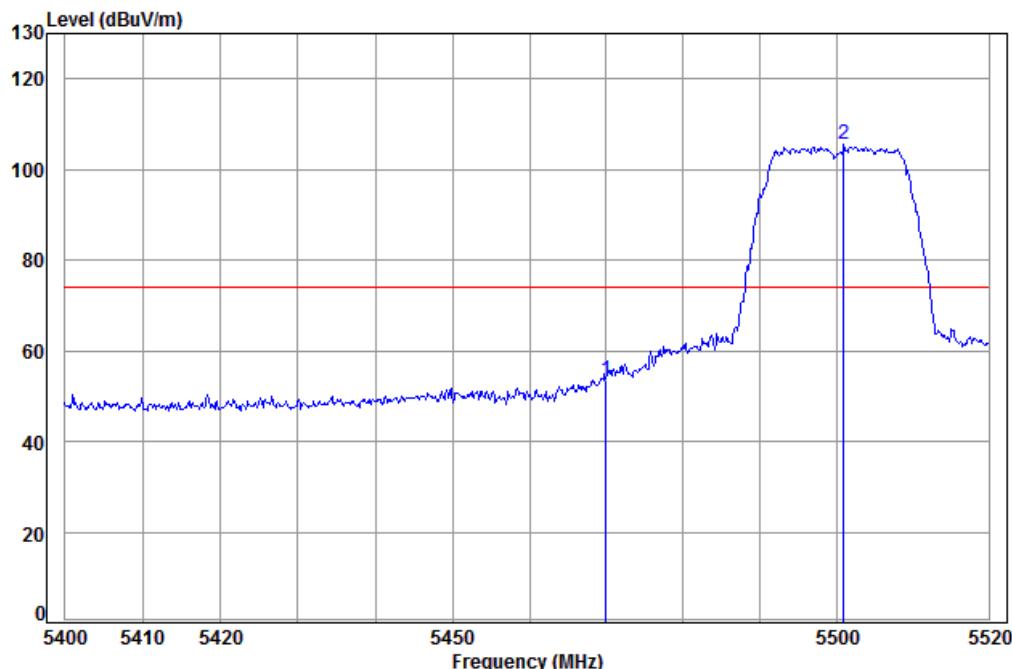
Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5500 Band edge
: AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	43.78	47.51	74.00	-26.49
2 pp	5495.19	8.25	34.35	38.88	90.25	93.97	74.00	19.97

Test mode:	802.11 ac20	Frequency(MHz):	5500	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

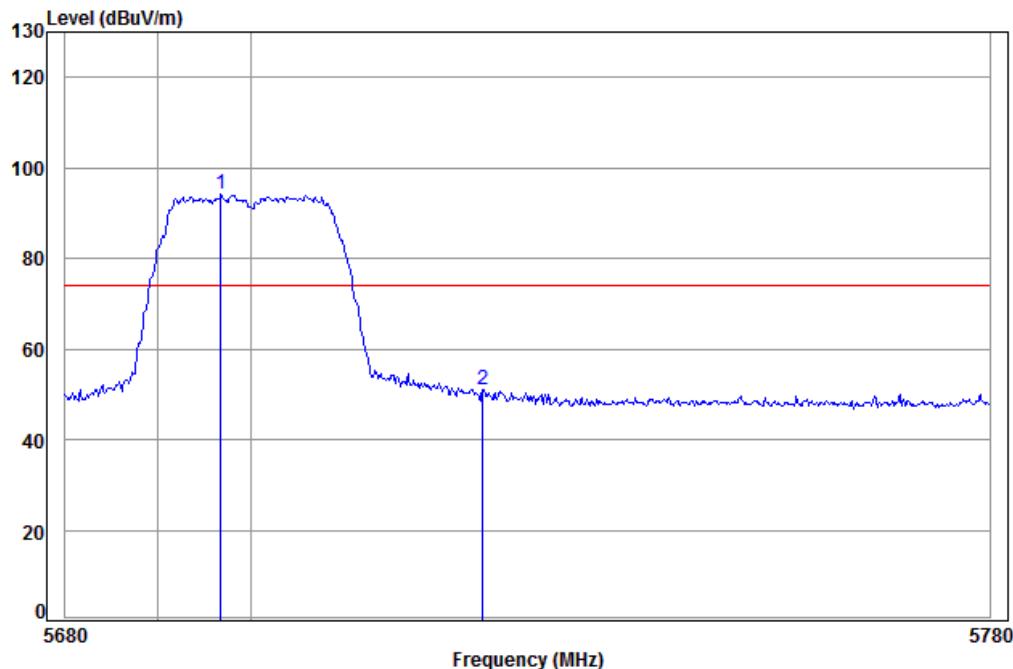
Job No: : 0659CR

Mode: : 5500 Band edge
: AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	49.91	53.64	74.00	-20.36
2 pp	5500.99	8.25	34.35	38.88	101.72	105.44	74.00	31.44



Test mode:	802.11 ac20	Frequency(MHz):	5700	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5700 Band edge
: AC20

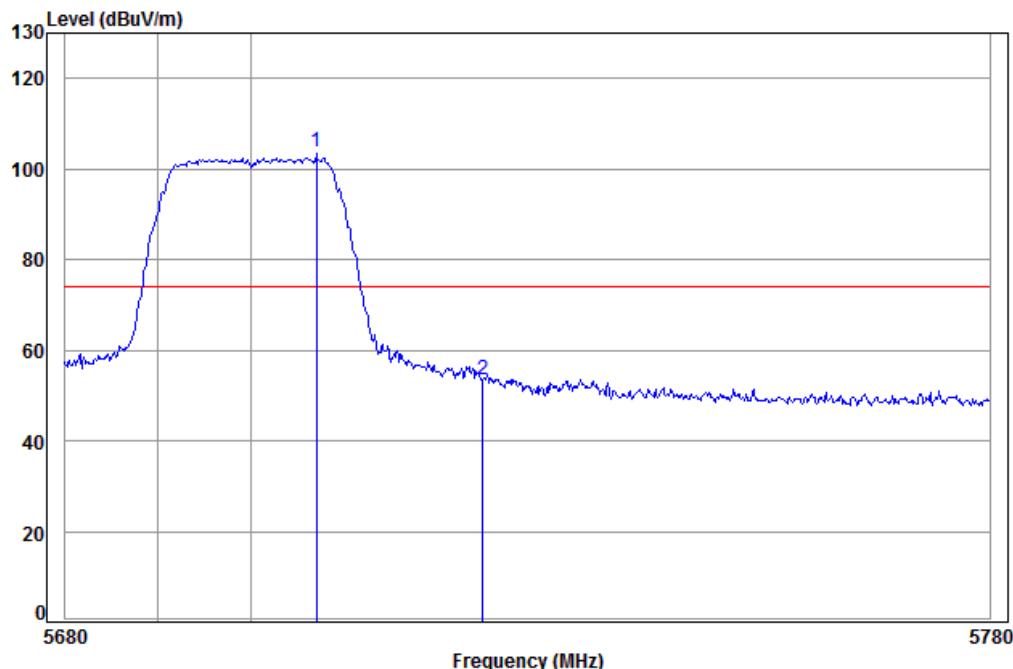
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5696.68	8.45	34.25	38.91	90.29	94.08	74.00	20.08
2	5725.00	8.48	34.24	38.92	47.21	51.01	74.00	-22.99

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 258 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5700	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------

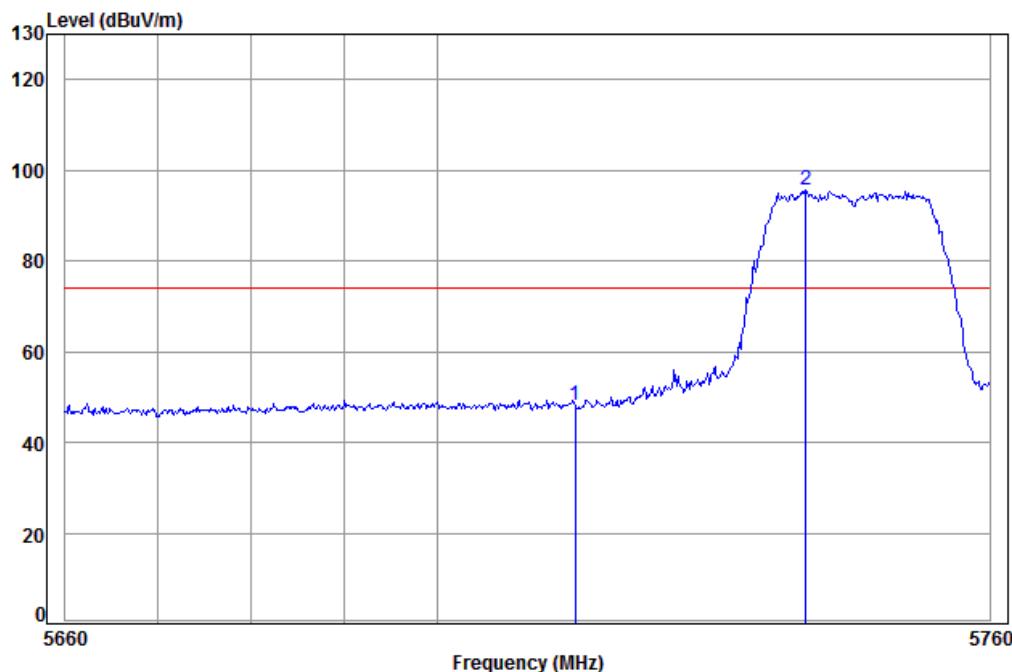


Condition: 3m Horizontal

Job No. : 0659CR

Mode: : 5700 Band edge
 : AC20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5707.03	8.46	34.25	38.91	99.81	103.61	74.00	29.61
2	5725.00	8.48	34.24	38.92	49.85	53.65	74.00	-20.35

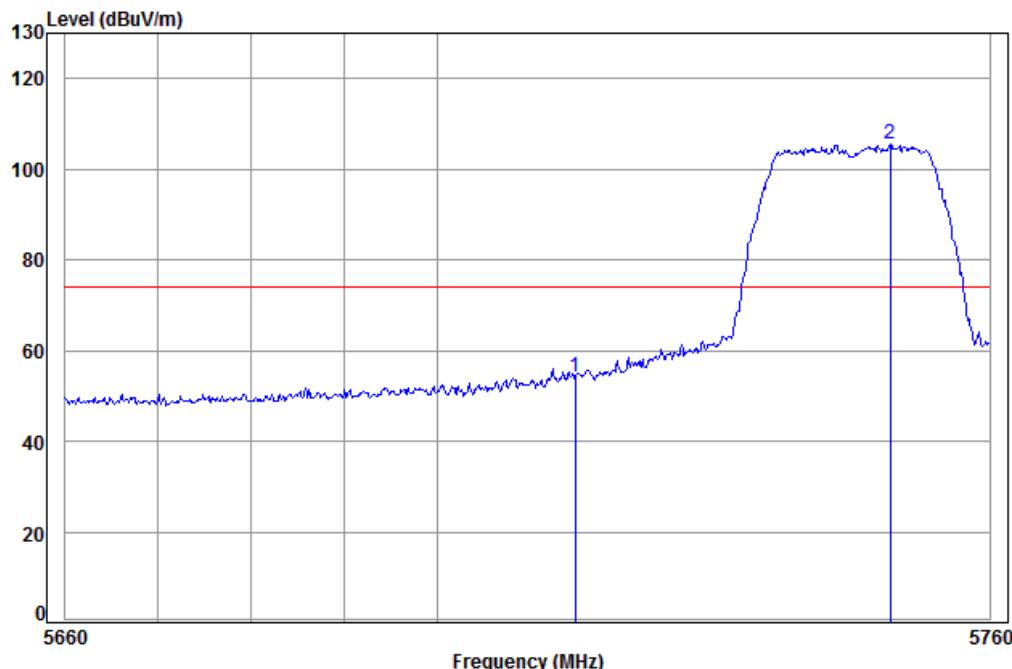


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 260 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5745	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No. : 0659CR

Mode: : 5745 Band edge
 : AC20

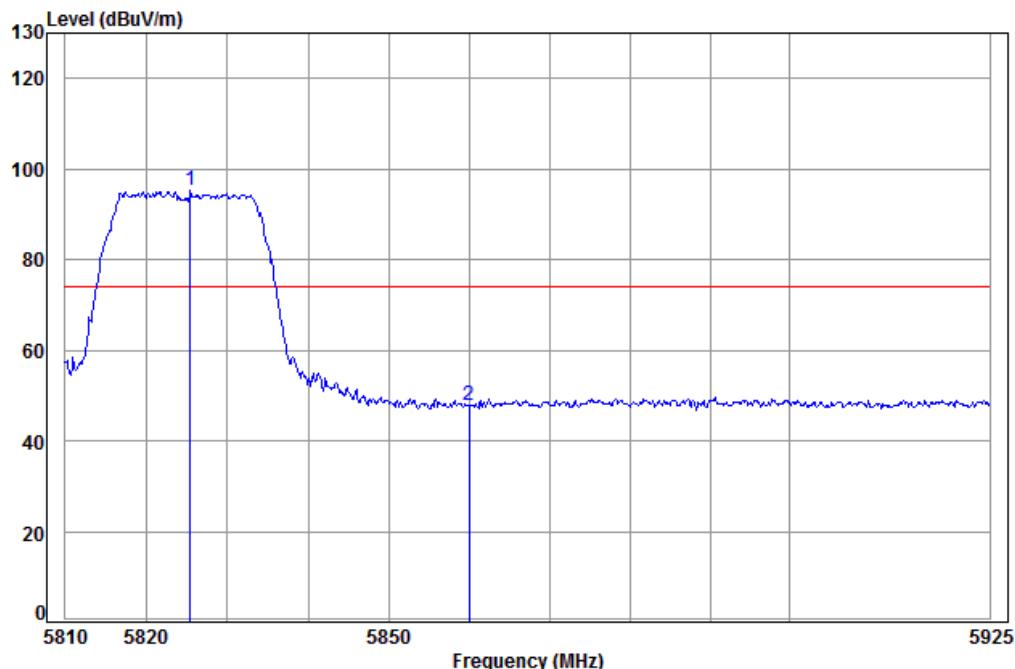
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	8.47	34.24	38.91	50.51	54.31	74.00	-19.69
2 pp	5749.22	8.50	34.23	38.92	101.67	105.48	74.00	31.48

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 261 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5825	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No. : 0659CR

Mode: : 5825 Band edge
 : AC20

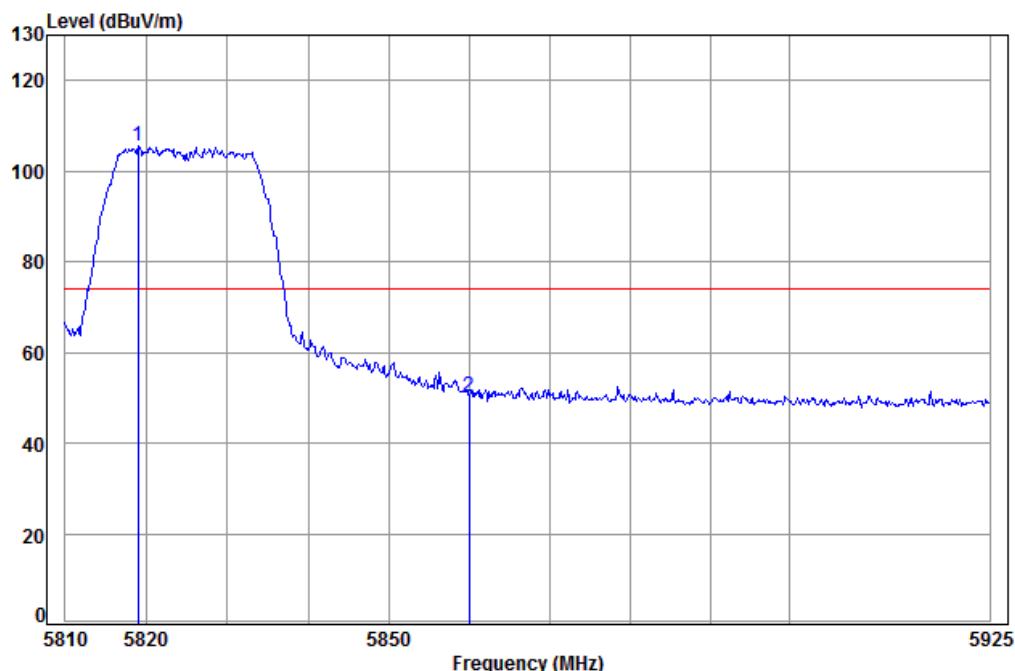
	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	5825.39	8.58	34.26	38.93	91.43	95.34	74.00 21.34
2	5860.00	8.61	34.35	38.94	43.70	47.72	74.00 -26.28

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 262 of 306

Test mode:	802.11 ac20	Frequency(MHz):	5825	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5825 Band edge
 : AC20

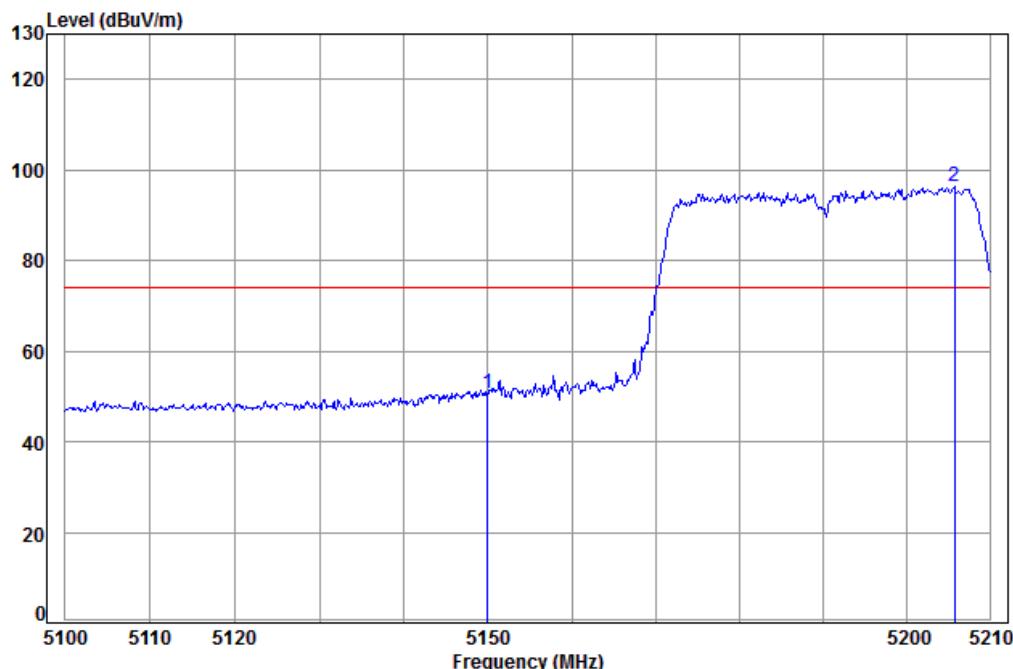
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5819.00	8.57	34.25	38.93	101.50	105.39	74.00	31.39
2	5860.00	8.61	34.35	38.94	46.30	50.32	74.00	-23.68

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 263 of 306

Test mode:	802.11 n40	Frequency(MHz):	5190	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5190 Band edge
: N40

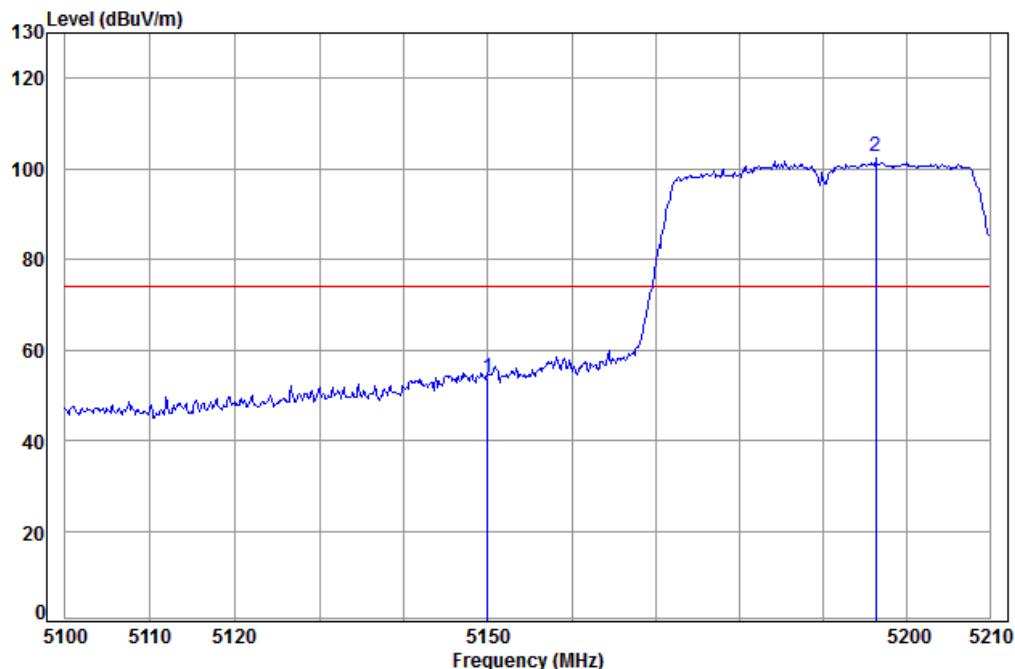
Freq	Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	47.19	50.52	74.00	-23.48
2 pp	5205.78	8.11	34.01	38.83	92.92	96.21	74.00	22.21

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 264 of 306

Test mode:	802.11 n40	Frequency(MHz):	5190	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5190 Band edge
: N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	50.34	53.67	74.00	-20.33
2 pp	5196.34	8.10	34.01	38.83	99.31	102.59	74.00	28.59

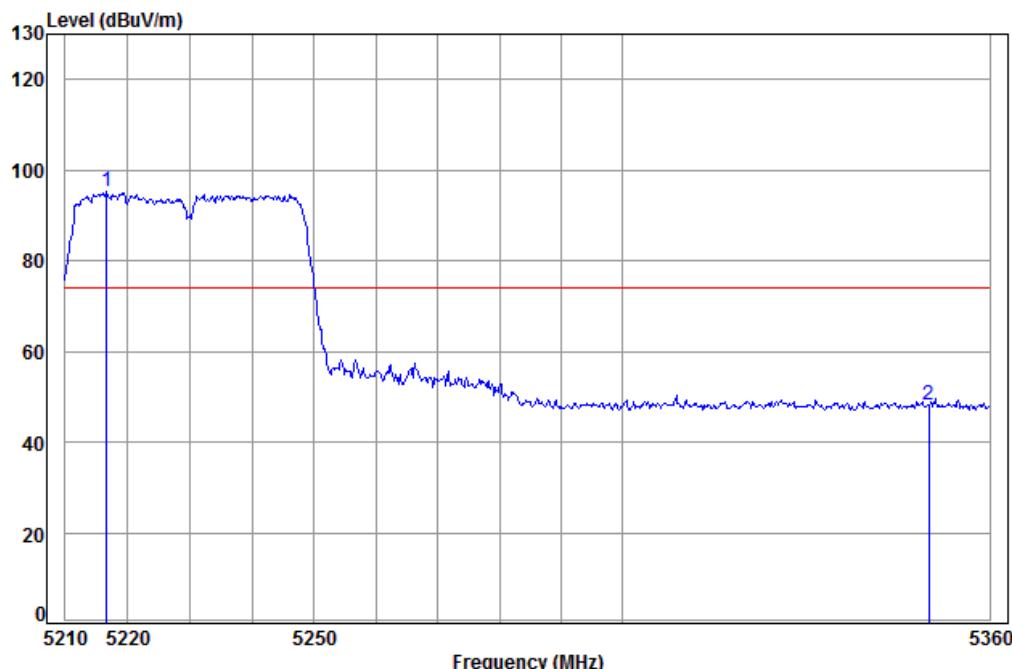


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 265 of 306

Test mode:	802.11 n40	Frequency(MHz):	5230	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No. : 0659CR

Mode: : 5230 Band edge
: N40

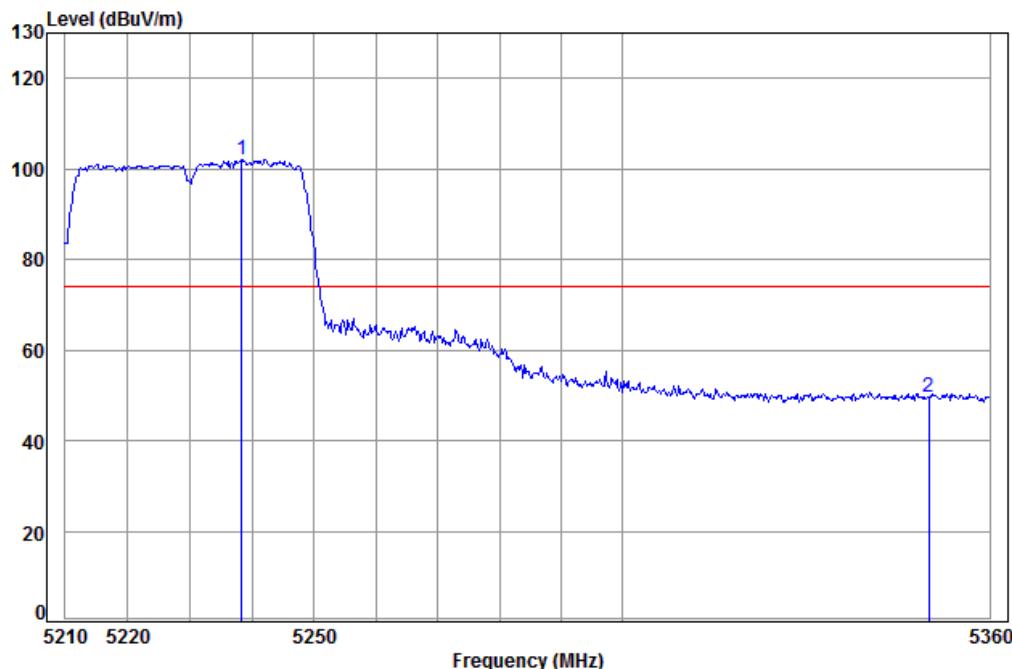
		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	5216.66	8.11	34.03	38.83	91.89	95.20	74.00	21.20
2		5350.00	8.18	34.30	38.85	44.42	48.05	74.00	-25.95

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 266 of 306

Test mode:	802.11 n40	Frequency(MHz):	5230	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5230 Band edge
 : N40

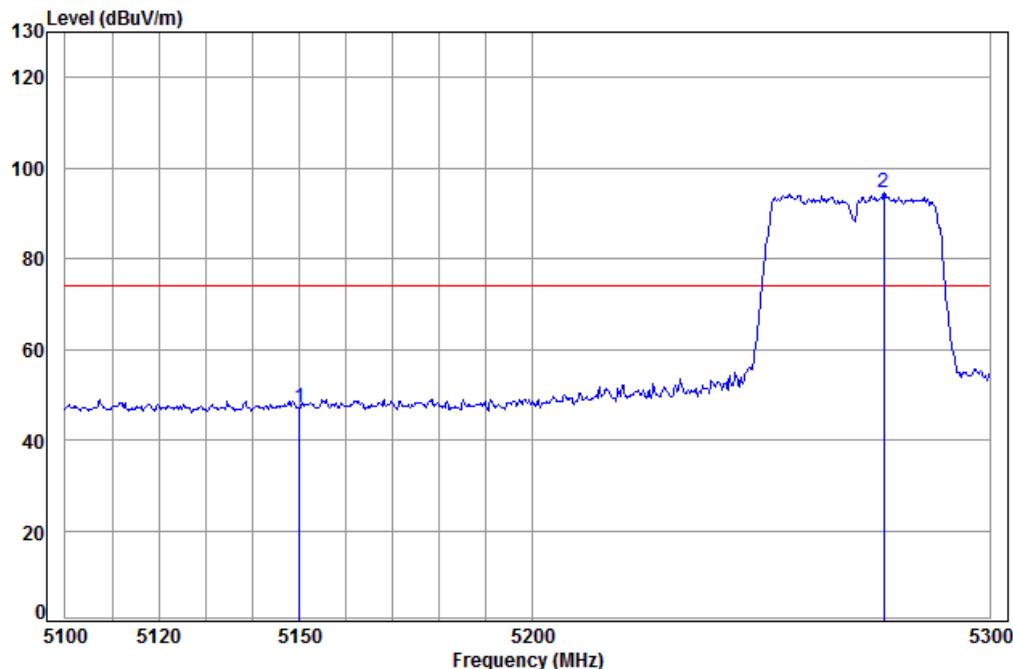
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5238.32	8.12	34.08	38.83	98.74	102.11	74.00	28.11
2	5350.00	8.18	34.30	38.85	45.85	49.48	74.00	-24.52

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 267 of 306

Test mode:	802.11 n40	Frequency(MHz):	5270	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5270 Band edge
: N40

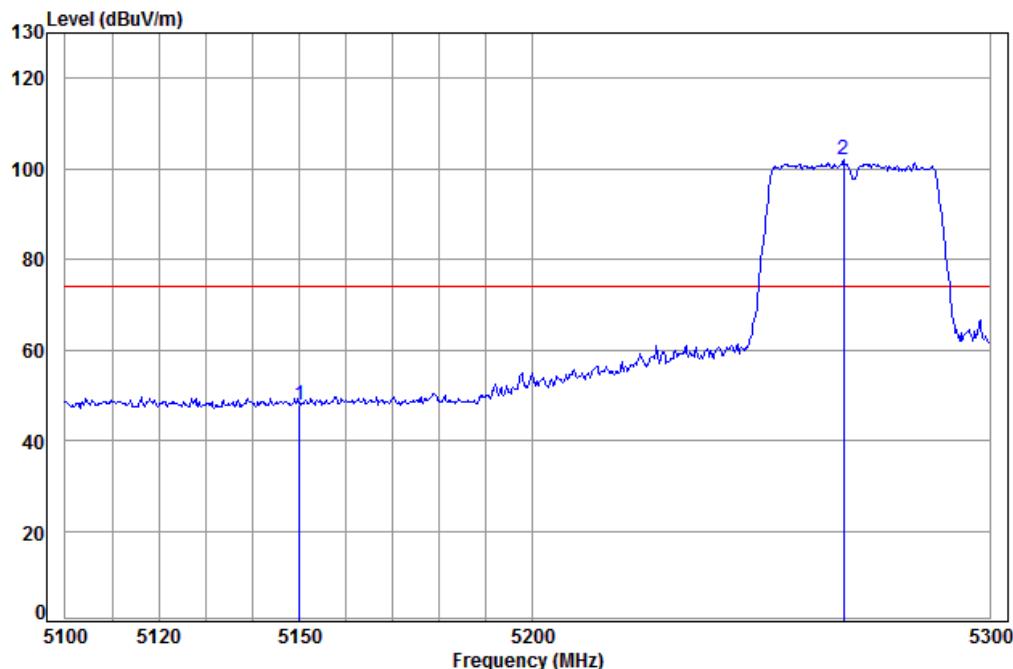
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	43.85	47.18	74.00	-26.82
2 pp	5276.81	8.14	34.16	38.84	91.17	94.63	74.00	20.63

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 268 of 306

Test mode:	802.11 n40	Frequency(MHz):	5270	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5270 Band edge
: N40

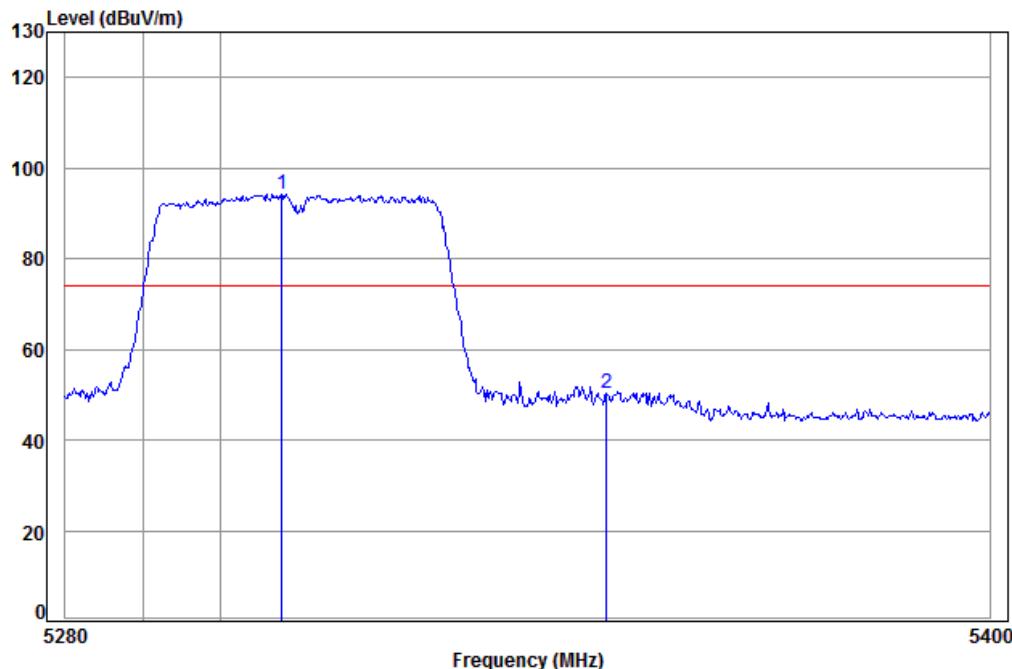
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	44.57	47.90	74.00	-26.10
2 pp	5267.89	8.14	34.14	38.84	98.57	102.01	74.00	28.01

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 269 of 306

Test mode:	802.11 n40	Frequency(MHz):	5310	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5310 Band edge
: N40

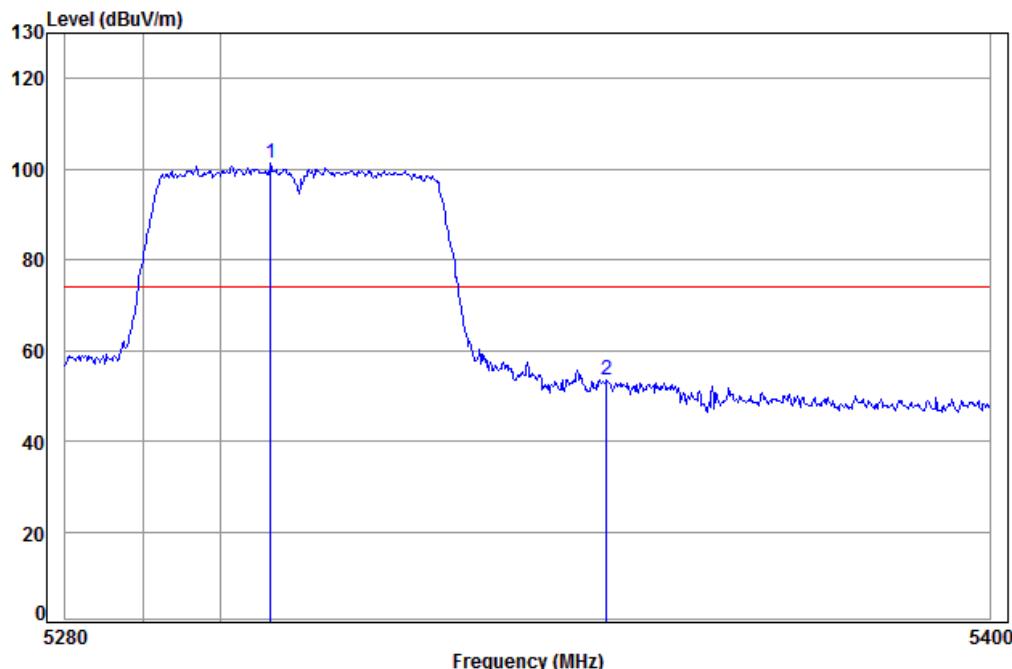
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5307.84	8.16	34.22	38.85	90.85	94.38	74.00	20.38
2	5350.00	8.18	34.30	38.85	46.77	50.40	74.00	-23.60

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 270 of 306

Test mode:	802.11 n40	Frequency(MHz):	5310	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



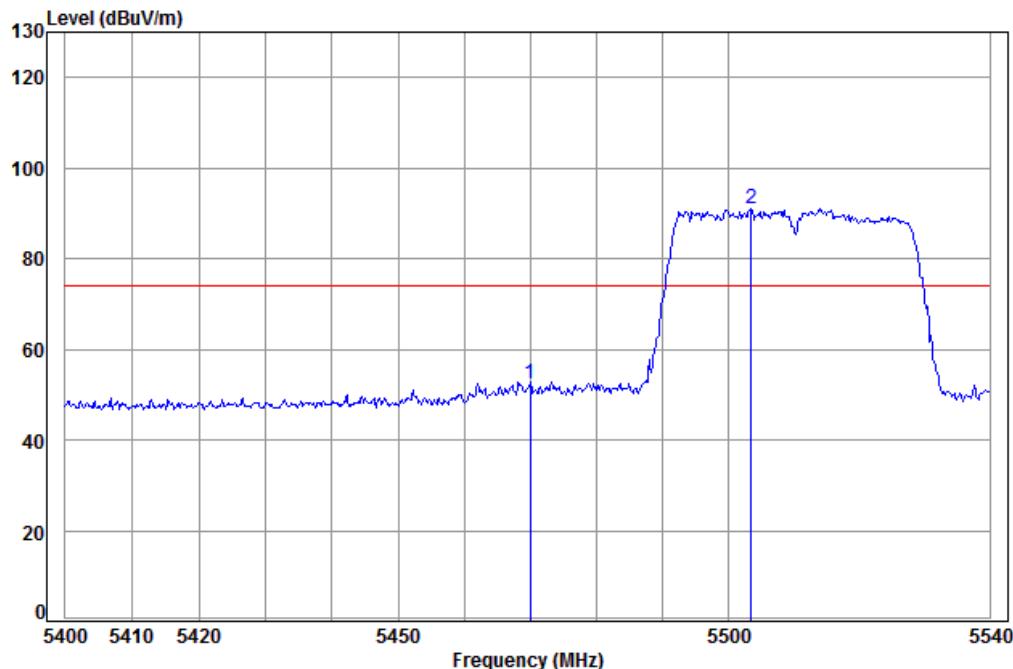
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5306.41	8.16	34.21	38.85	97.96	101.48	74.00	27.48
2	5350.00	8.18	34.30	38.85	49.80	53.43	74.00	-20.57

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 271 of 306

Test mode:	802.11 n40	Frequency(MHz):	5510	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5510 Band edge
 : N40

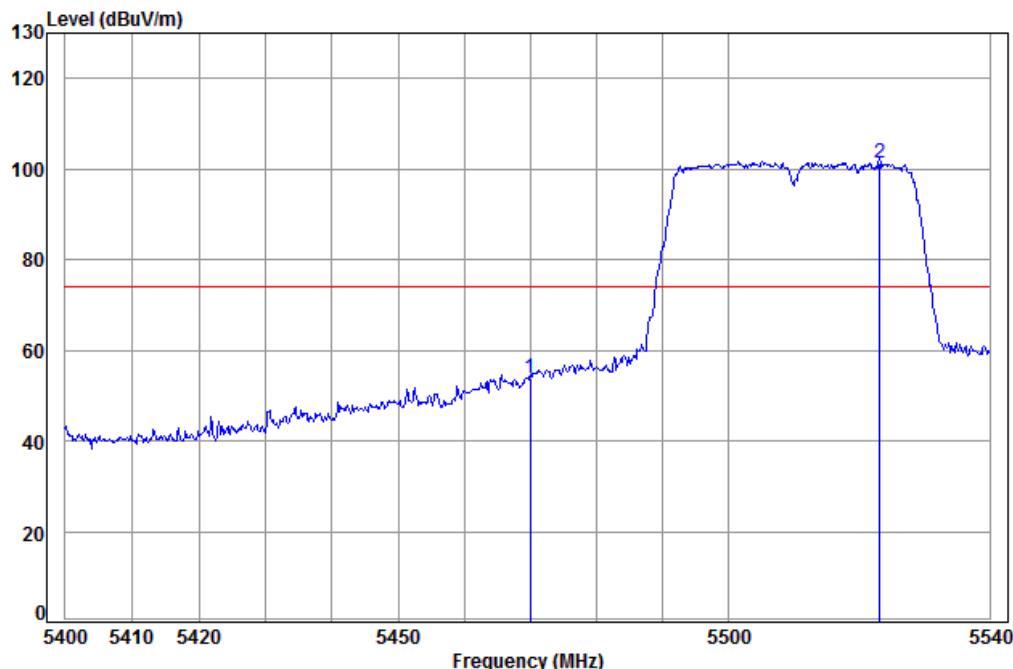
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	48.64	52.37	74.00	-21.63
2 pp	5503.54	8.25	34.35	38.88	87.35	91.07	74.00	17.07

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 272 of 306

Test mode:	802.11 n40	Frequency(MHz):	5510	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

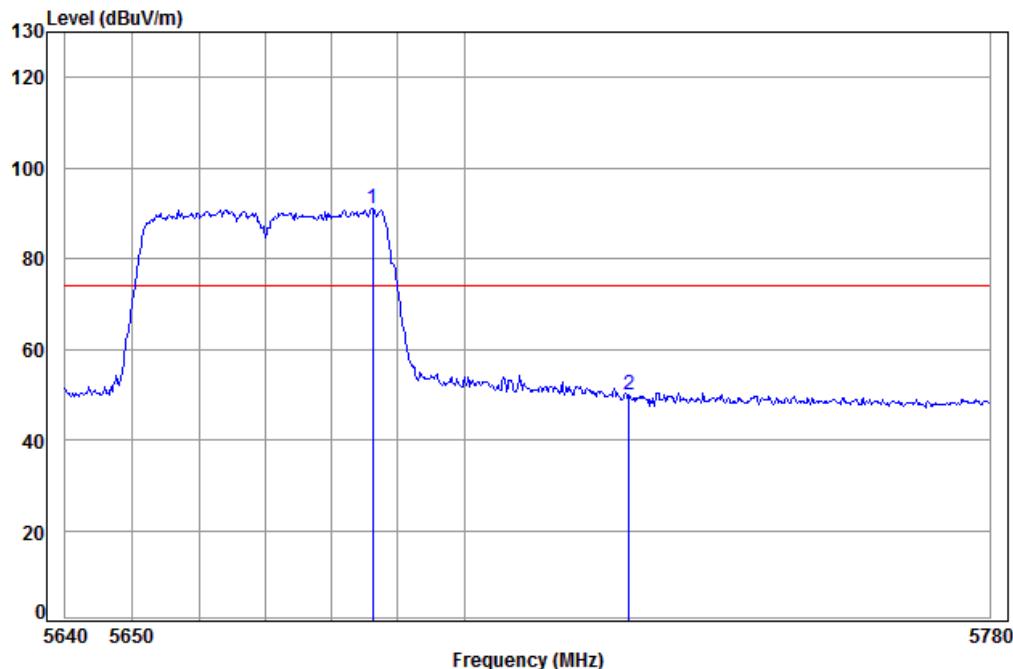
Job No.: 0659CR

Mode: 5510 Band edge
: N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	50.08	53.81	74.00	-20.19
2 pp	5523.15	8.27	34.34	38.88	97.74	101.47	74.00	27.47



Test mode:	802.11 n40	Frequency(MHz):	5670	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5670 Band edge
: N40

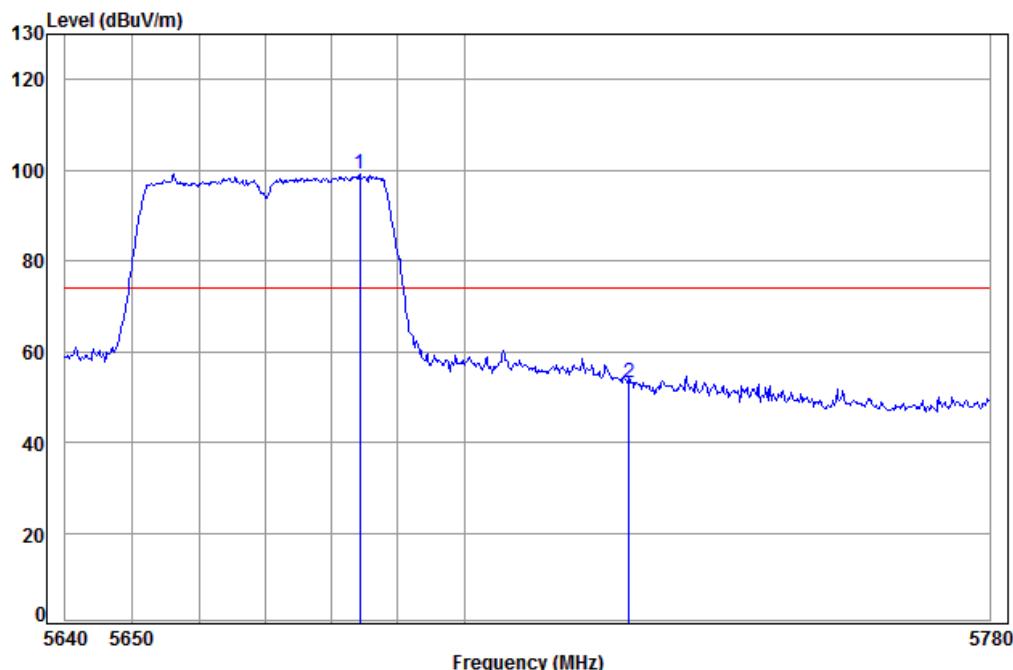
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5686.24	8.44	34.26	38.91	87.22	91.01	74.00	17.01
2	5725.00	8.48	34.24	38.92	46.16	49.96	74.00	-24.04

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 274 of 306

Test mode:	802.11 n40	Frequency(MHz):	5670	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5670 Band edge
: N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5684.29	8.44	34.26	38.91	95.36	99.15	74.00	25.15
2	5725.00	8.48	34.24	38.92	49.46	53.26	74.00	-20.74



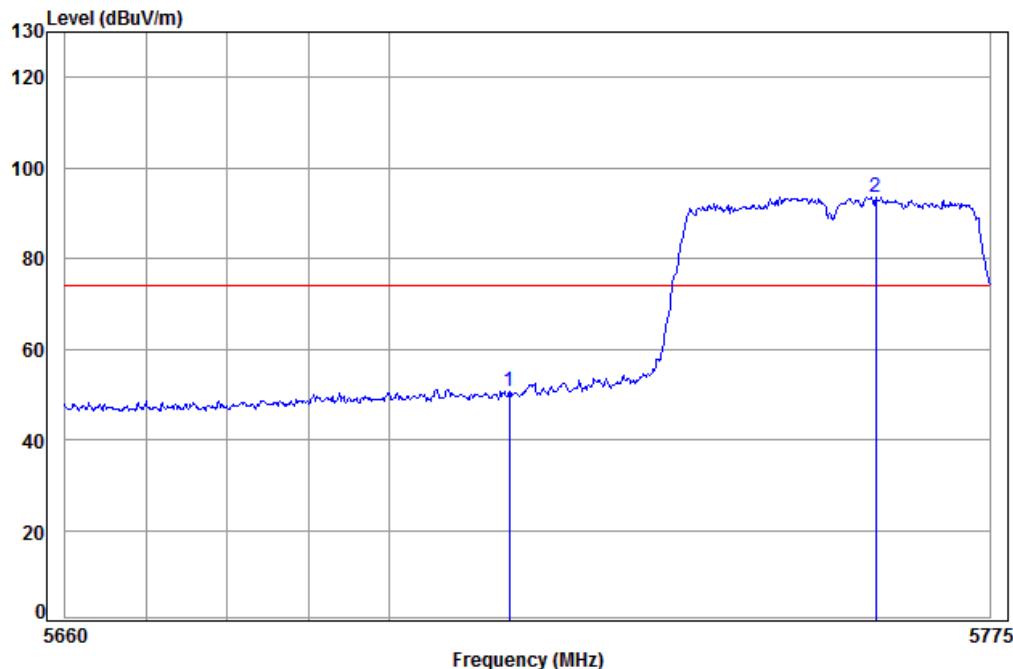
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 275 of 306

Test mode:	802.11 n40	Frequency(MHz):	5755	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5755 Band edge
: N40

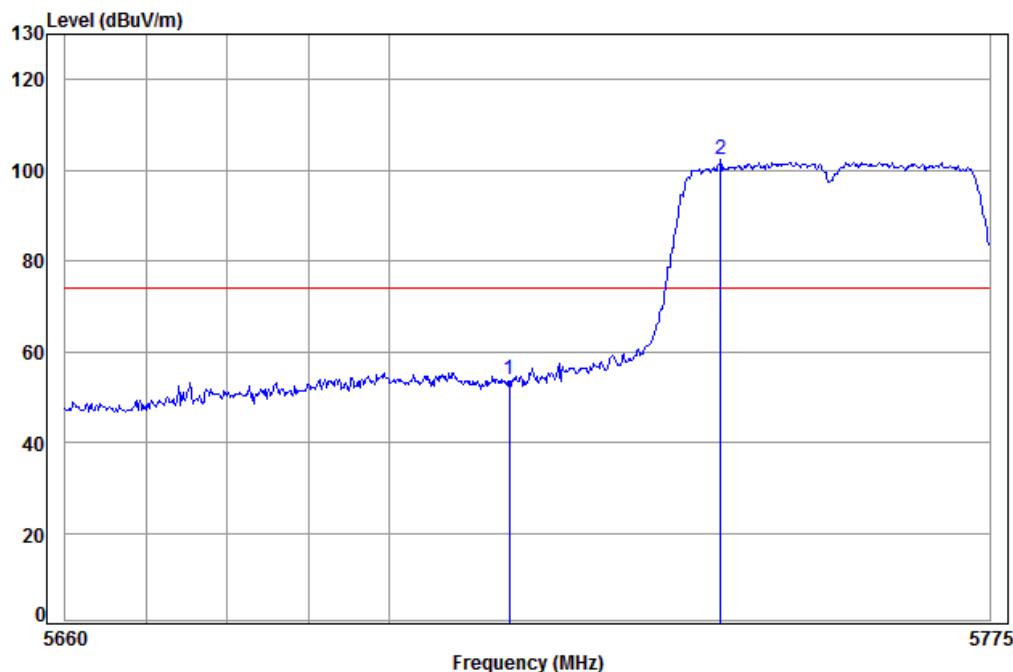
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	8.47	34.24	38.91	47.00	50.80	74.00	-23.20
2 pp	5760.73	8.52	34.22	38.92	89.82	93.64	74.00	19.64

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 276 of 306

Test mode:	802.11 n40	Frequency(MHz):	5755	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5755 Band edge
: N40

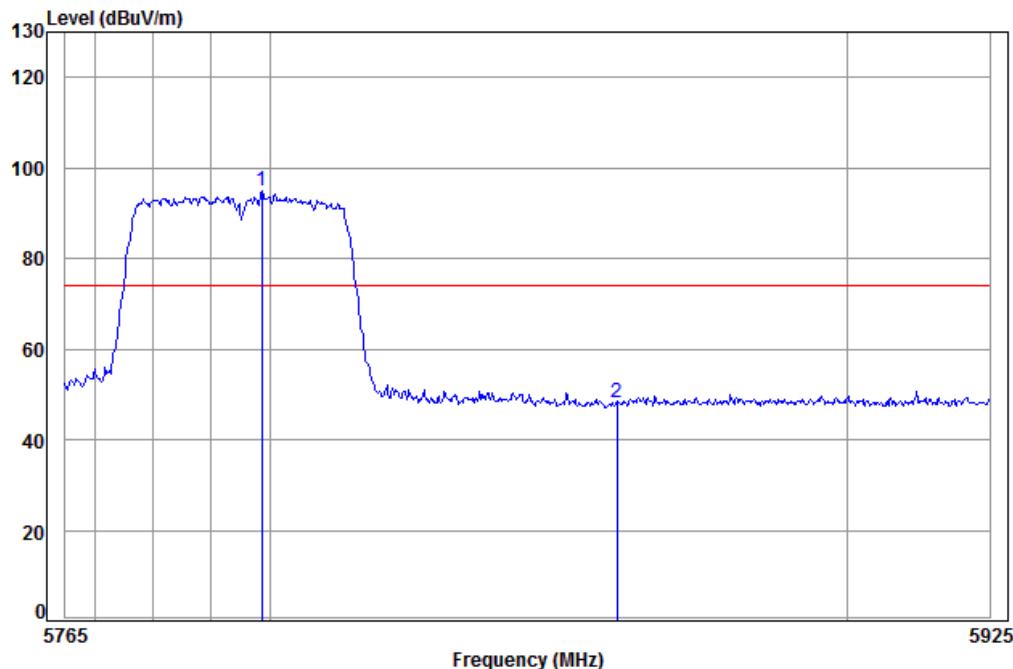
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	8.47	34.24	38.91	50.02	53.82	74.00	-20.18
2 pp	5741.30	8.50	34.23	38.92	98.40	102.21	74.00	28.21

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 277 of 306

Test mode:	802.11 n40	Frequency(MHz):	5795	Remark:	Peak	Vertical
------------	------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5795 Band edge
: N40

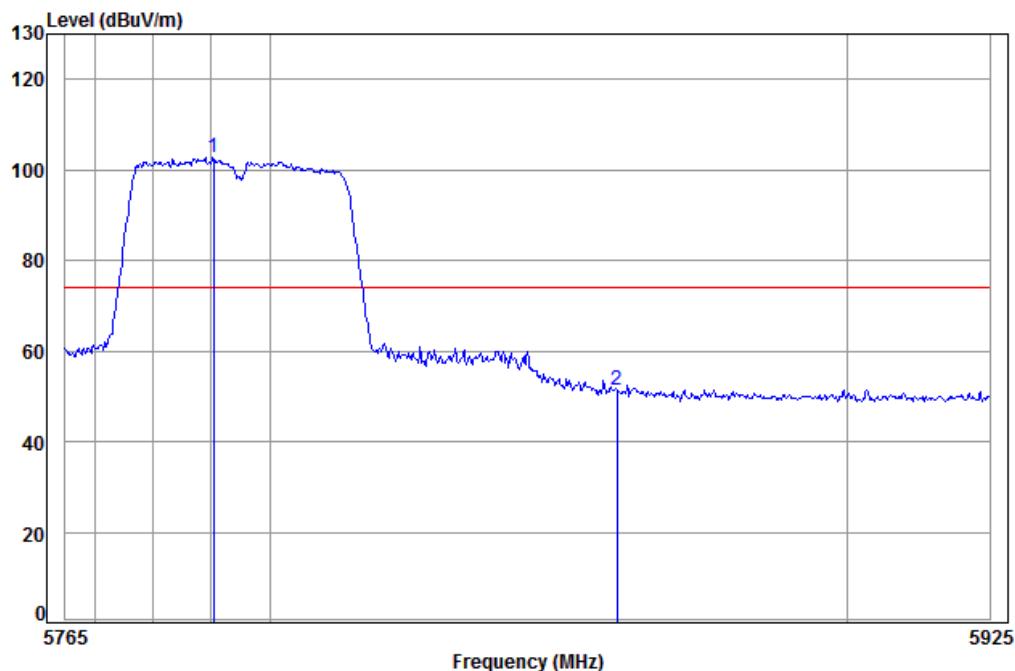
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5798.71	8.55	34.20	38.93	91.19	95.01	74.00	21.01
2	5860.00	8.61	34.35	38.94	44.23	48.25	74.00	-25.75

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 278 of 306

Test mode:	802.11 n40	Frequency(MHz):	5795	Remark:	Peak	Horizontal
------------	------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5795 Band edge
: N40

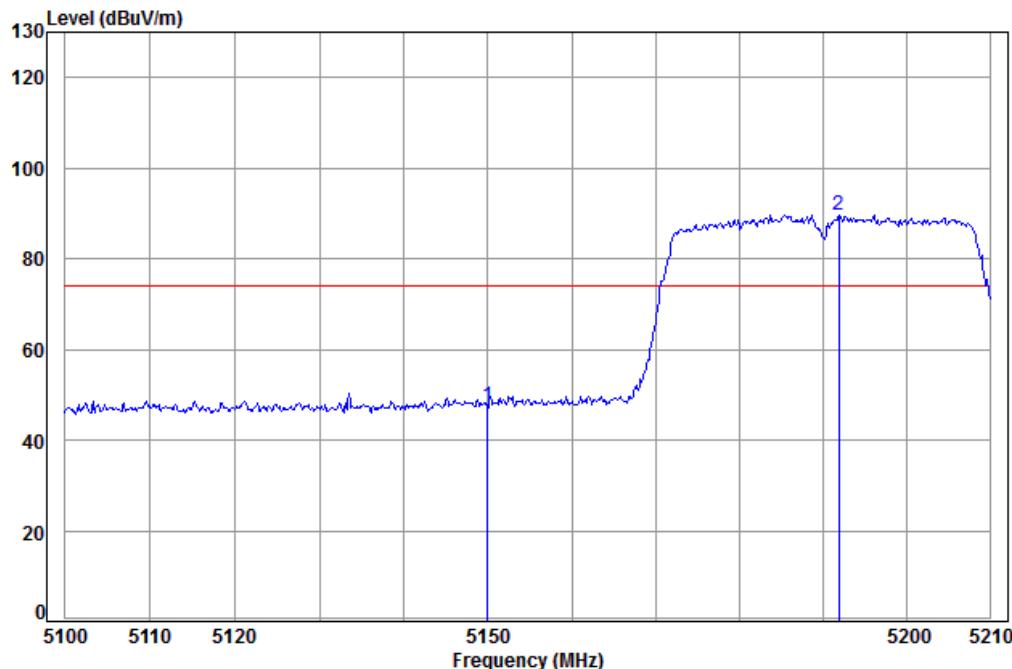
Freq	Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5790.31	8.55	34.20	38.93	98.79	102.61	74.00	28.61
2	5860.00	8.61	34.35	38.94	47.32	51.34	74.00	-22.66

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 279 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5190	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No.: 0659CR

Mode: 5190 Band edge
: AC40

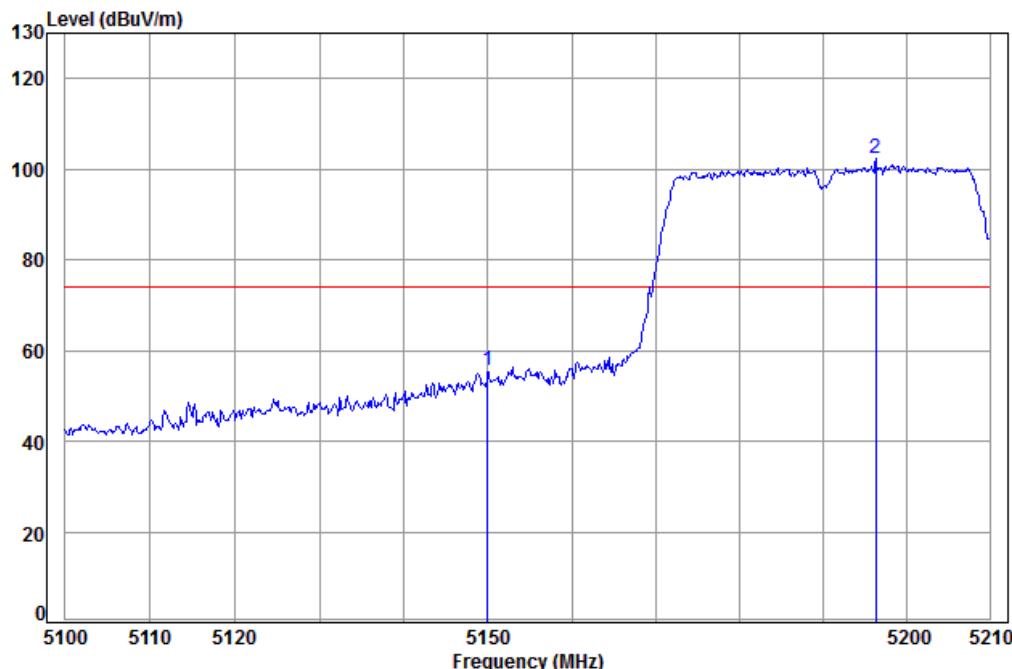
	Cable Freq		Ant Loss		Preamp Factor		Read Level	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	44.02	47.35	74.00	-26.65
2 pp	5191.91	8.10	34.01	38.83	86.50	89.78	74.00	15.78

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 280 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5190	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5190 Band edge
: AC40

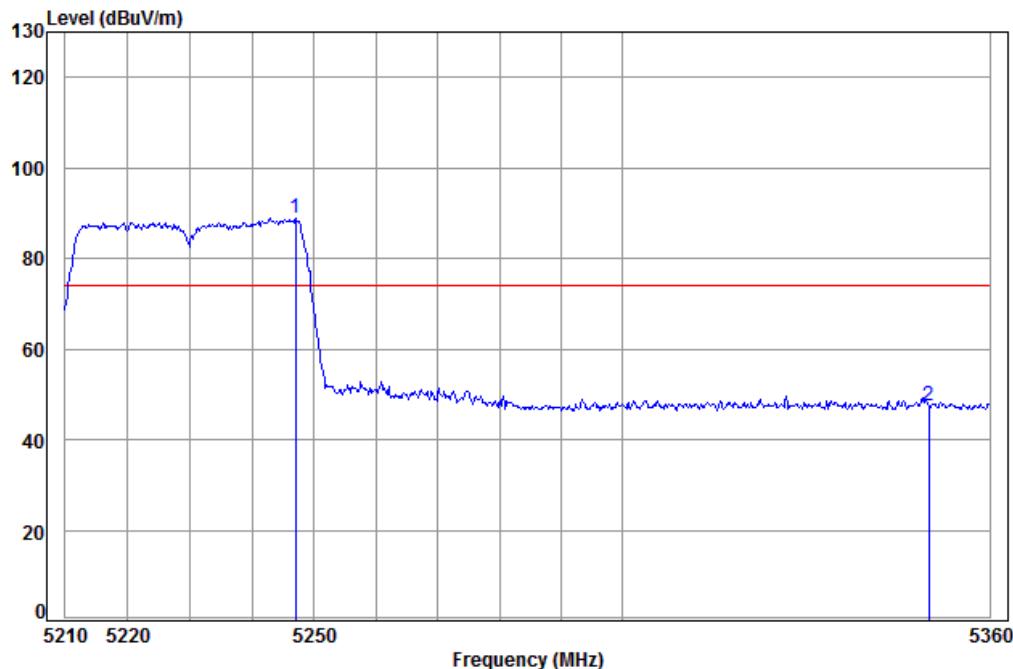
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	52.32	55.65	74.00	-18.35
2 pp	5196.34	8.10	34.01	38.83	99.26	102.54	74.00	28.54

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 281 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5230	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5230 Band edge
: AC40

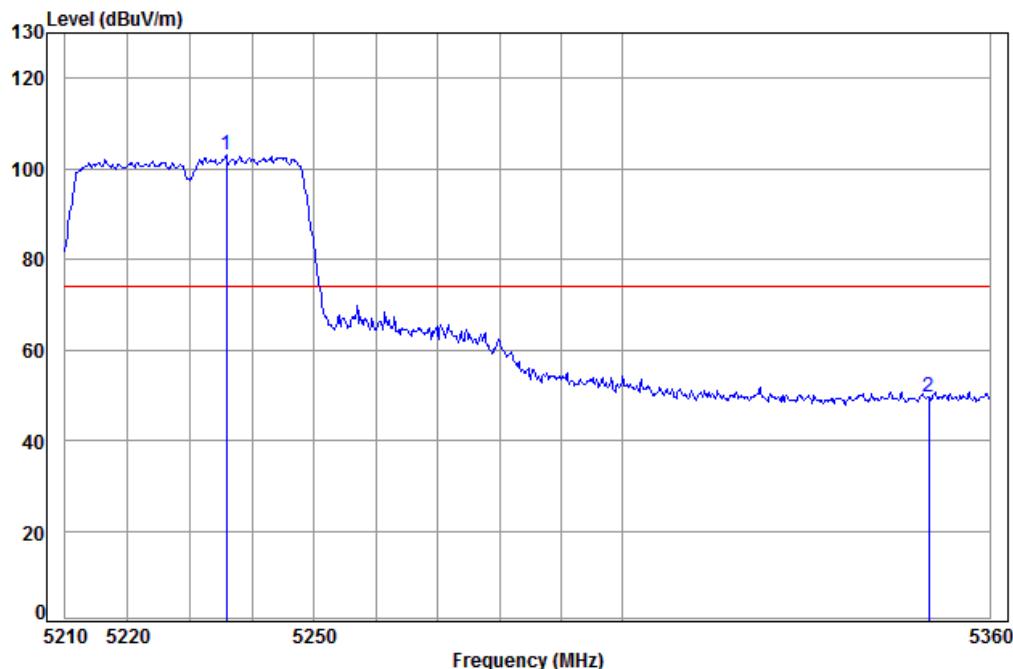
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5246.95	8.13	34.10	38.83	85.46	88.86	74.00	14.86
2	5350.00	8.18	34.30	38.85	43.95	47.58	74.00	-26.42

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 282 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5230	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5230 Band edge
: AC40

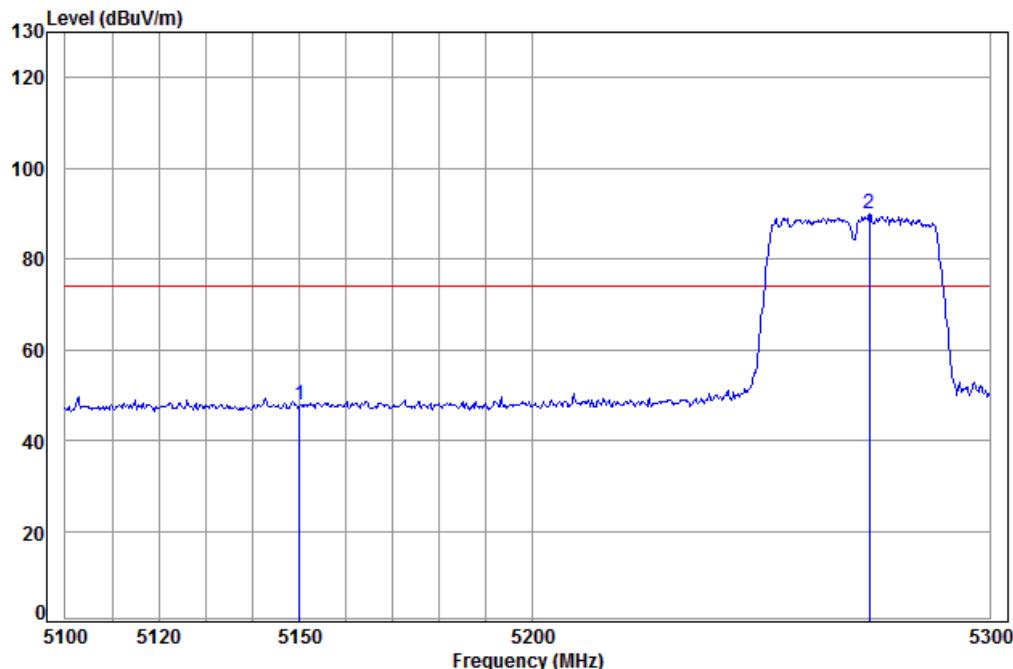
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m		dB	dBuV	dBuV/m	dB
1 pp	5235.80	8.12	34.07	38.83	99.58	102.94	74.00	28.94
2	5350.00	8.18	34.30	38.85	45.87	49.50	74.00	-24.50

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 283 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5270	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No.: 0659CR

Mode: 5270 Band edge
: AC40

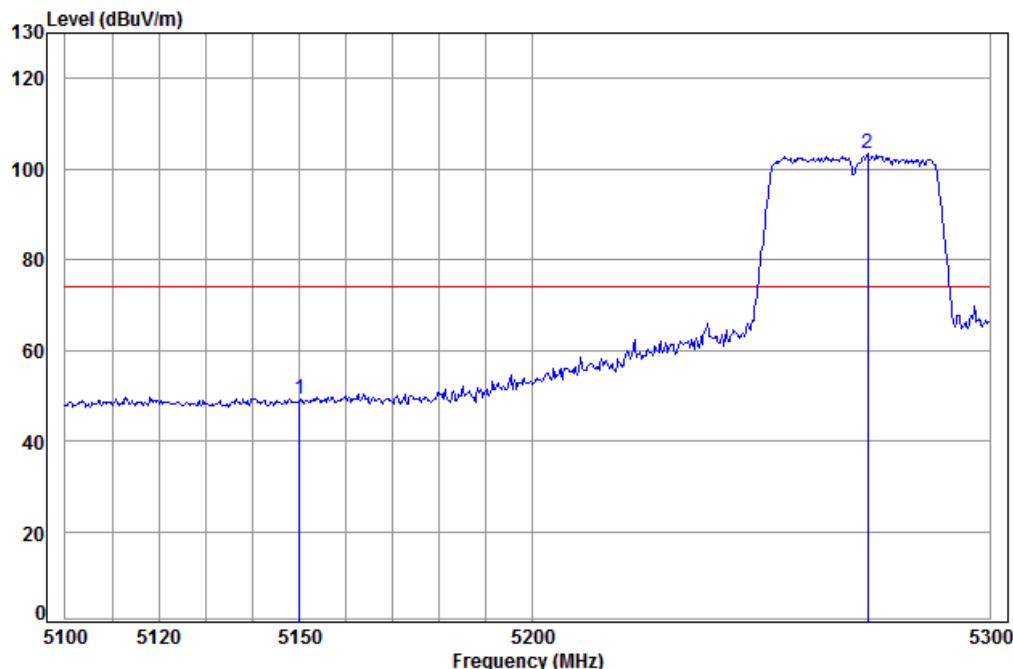
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	44.48	47.81	74.00	-26.19
2 pp	5273.56	8.14	34.15	38.84	86.51	89.96	74.00	15.96

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 284 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5270	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5270 Band edge
: AC40

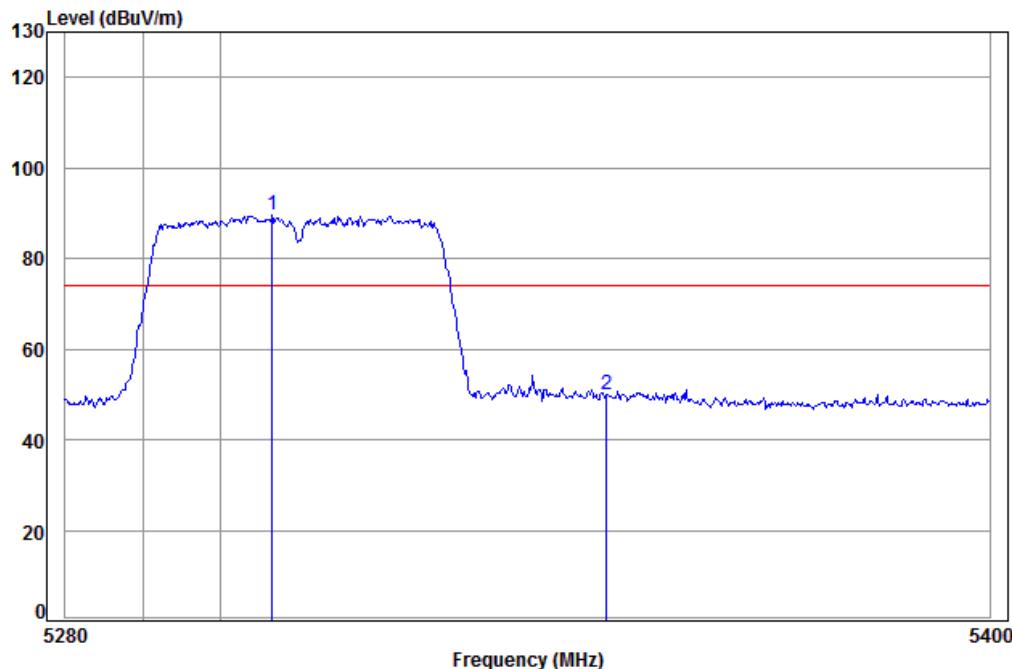
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	45.86	49.19	74.00	-24.81
2 pp	5273.16	8.14	34.15	38.84	99.94	103.39	74.00	29.39



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



Test mode:	802.11 ac40	Frequency(MHz):	5310	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5310 Band edge
: AC40

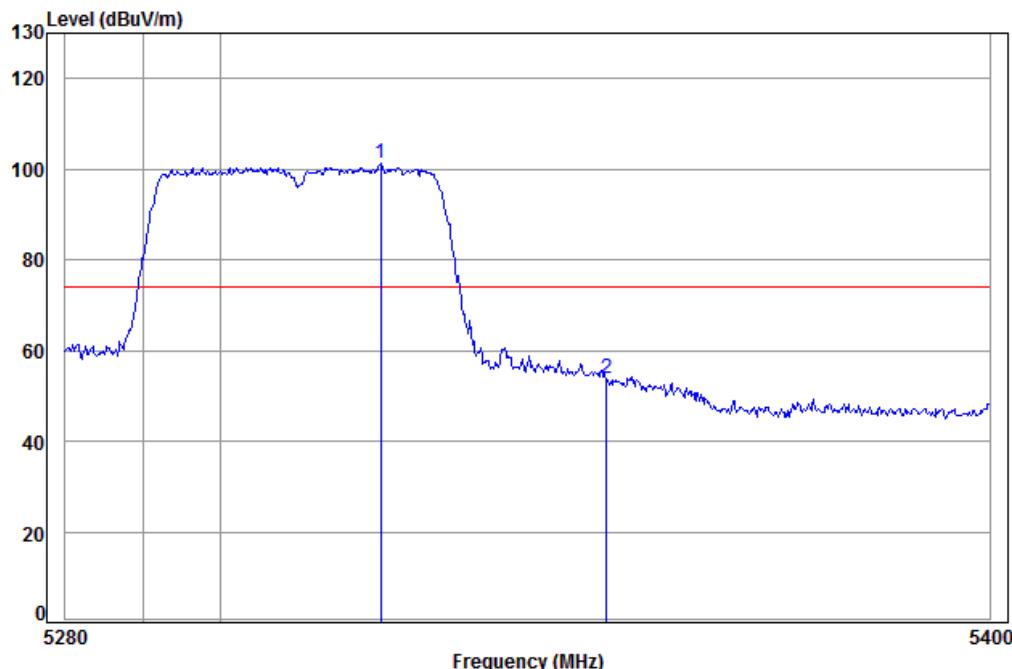
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5306.65	8.16	34.22	38.85	86.02	89.55	74.00	15.55
2	5350.00	8.18	34.30	38.85	46.33	49.96	74.00	-24.04

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 286 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5310	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5310 Band edge
: AC40

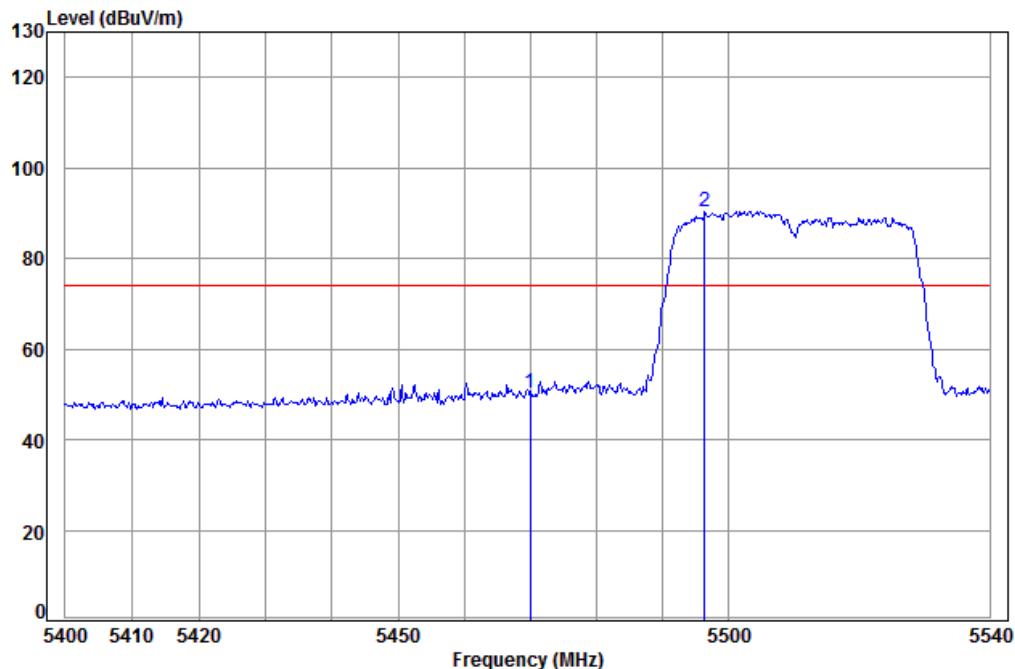
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5320.62	8.16	34.24	38.85	97.92	101.47	74.00	27.47
2	5350.00	8.18	34.30	38.85	50.12	53.75	74.00	-20.25

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 287 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5510	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5510 Band edge
: AC40

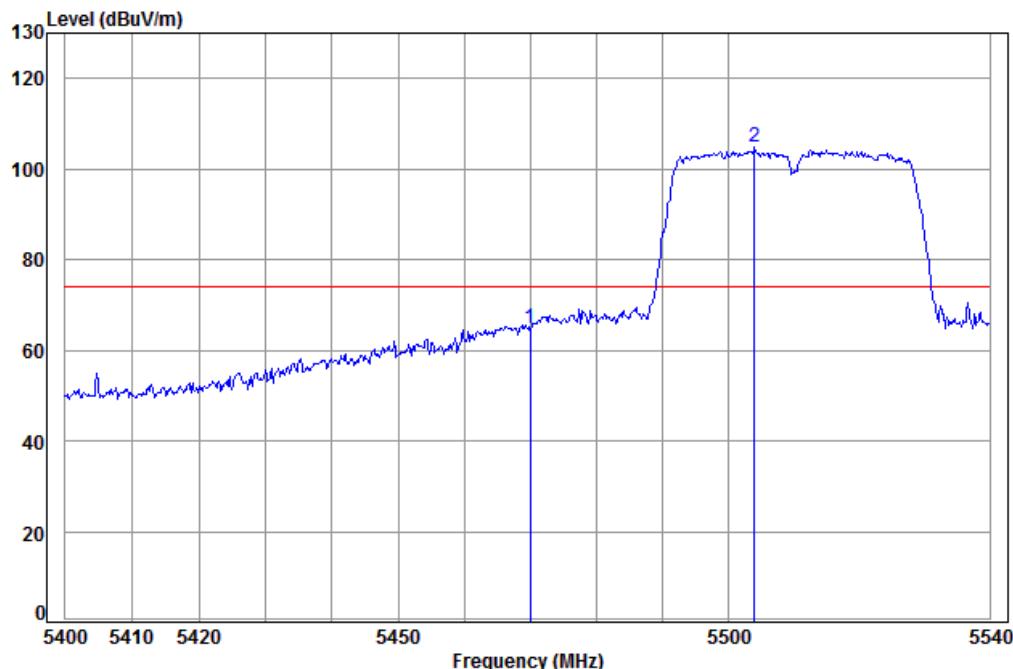
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	46.67	50.40	74.00	-23.60
2 pp	5496.50	8.25	34.35	38.88	86.64	90.36	74.00	16.36

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 288 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5510	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5510 Band edge
 : AC40

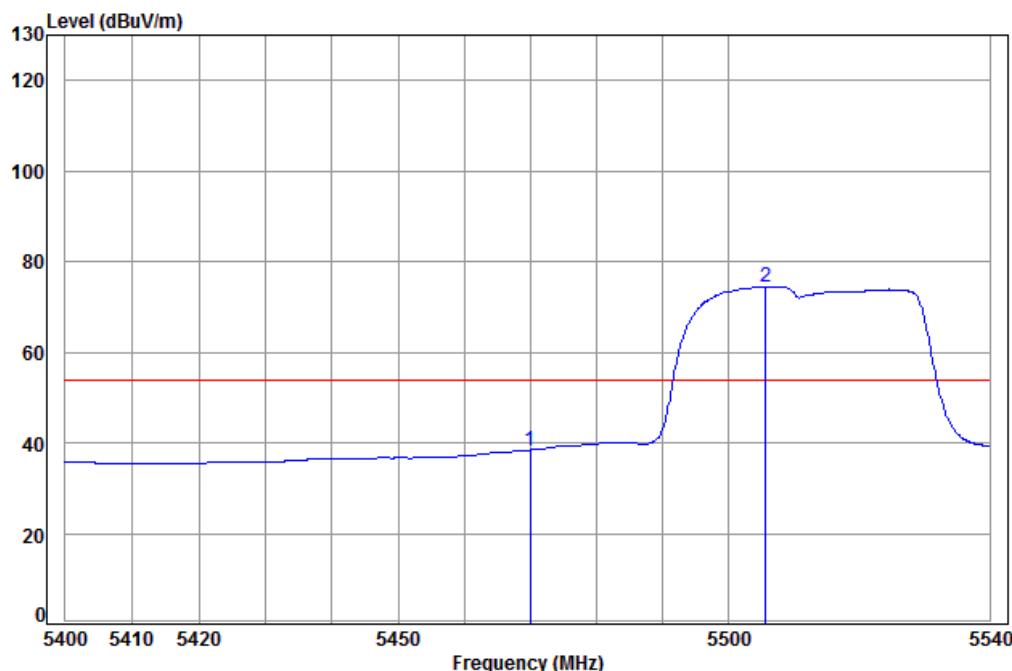
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	61.16	64.89	74.00	-9.11
2 pp	5504.10	8.25	34.35	38.88	101.03	104.75	74.00	30.75

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 289 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5510	Remark:	Average	Vertical
------------	-------------	-----------------	------	---------	---------	----------



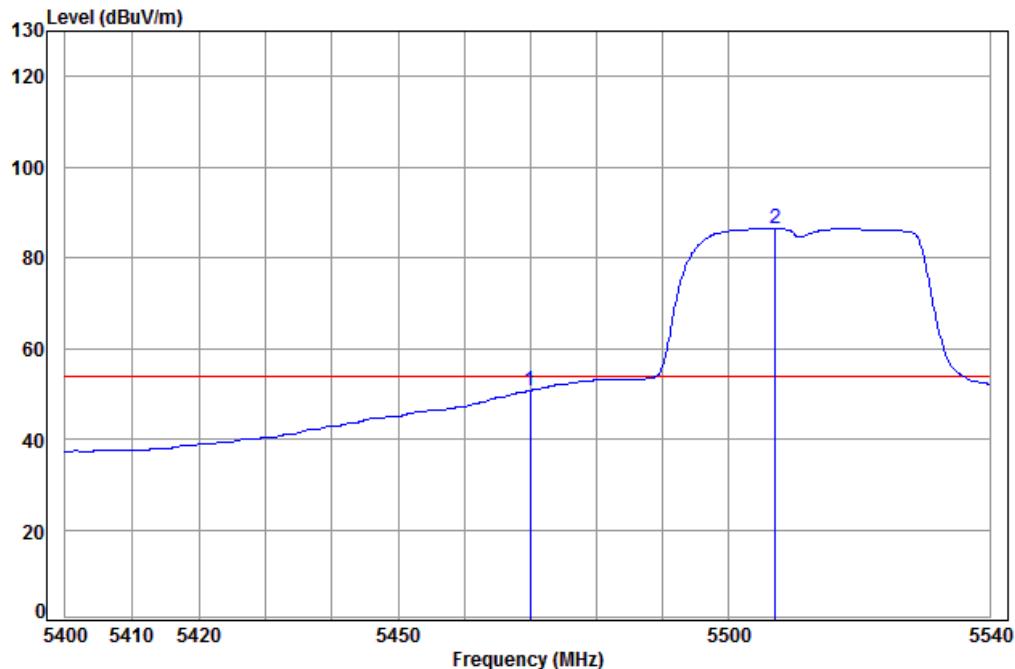
Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5510 Band edge
: AC40

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	34.69	38.42	54.00 -15.58
2 pp	5505.79	8.26	34.35	38.88	70.75	74.48	54.00 20.48

Test mode: 802.11 ac40 Frequency(MHz): 5510 Remark: Average Horizontal



Condition: 3m Horizontal

Job No. : 0659CR

Mode: : 5510 Band edge
: AC40

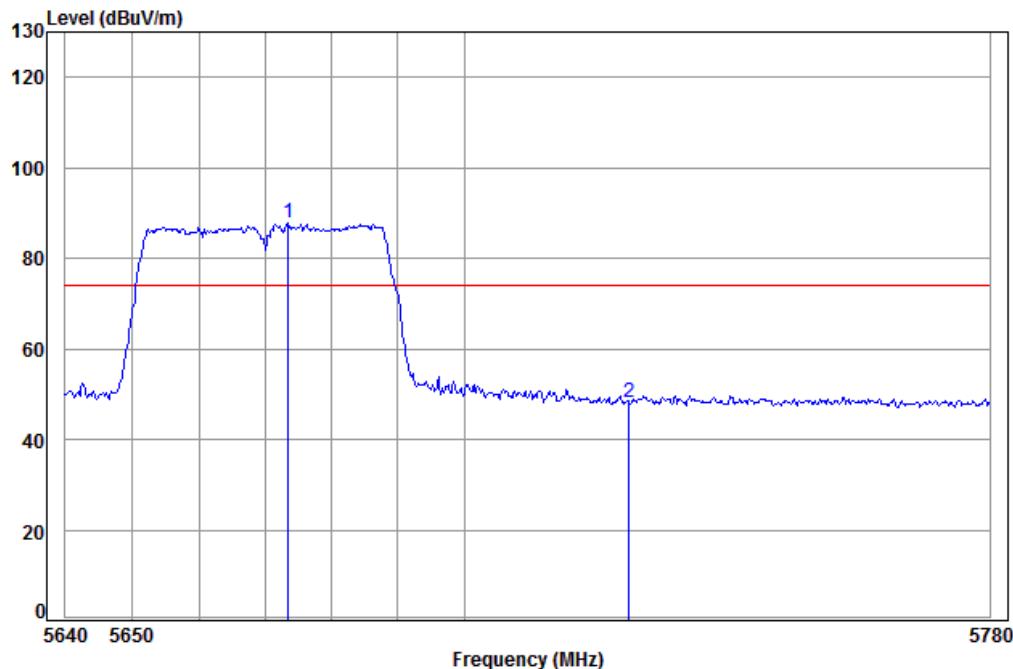
	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit	
Freq	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	MHz						
1	5470.00	8.24	34.36	38.87	46.96	50.69	54.00
2 pp	5507.20	8.26	34.35	38.88	82.71	86.44	54.00

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 291 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5670	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5670 Band edge
: AC40

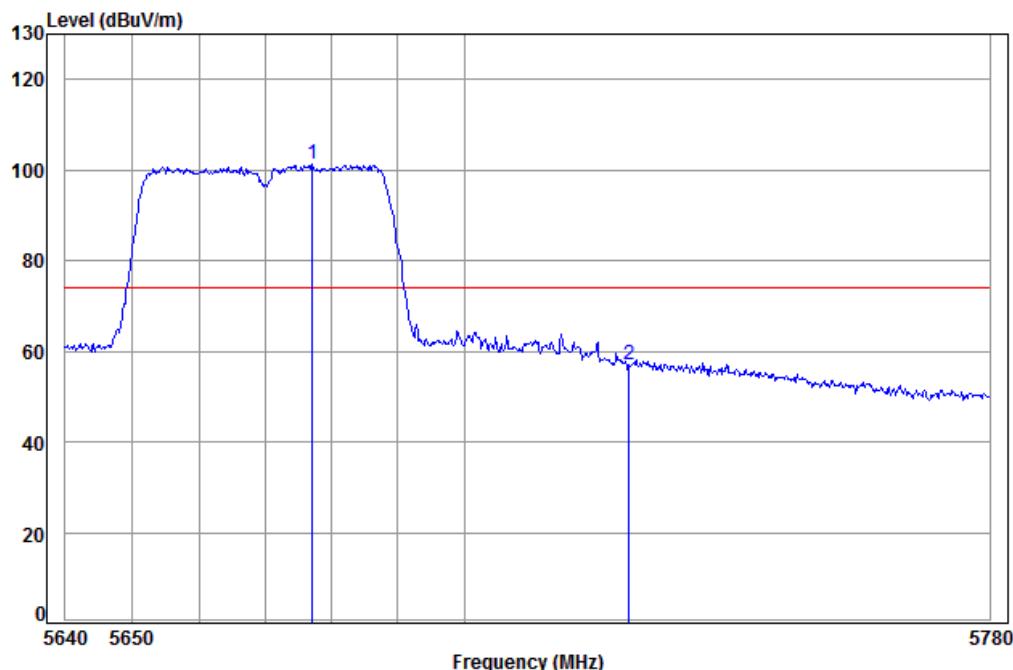
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5673.43	8.43	34.26	38.91	83.99	87.77	74.00	13.77
2	5725.00	8.48	34.24	38.92	44.41	48.21	74.00	-25.79

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 292 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5670	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5670 Band edge
 : AC40

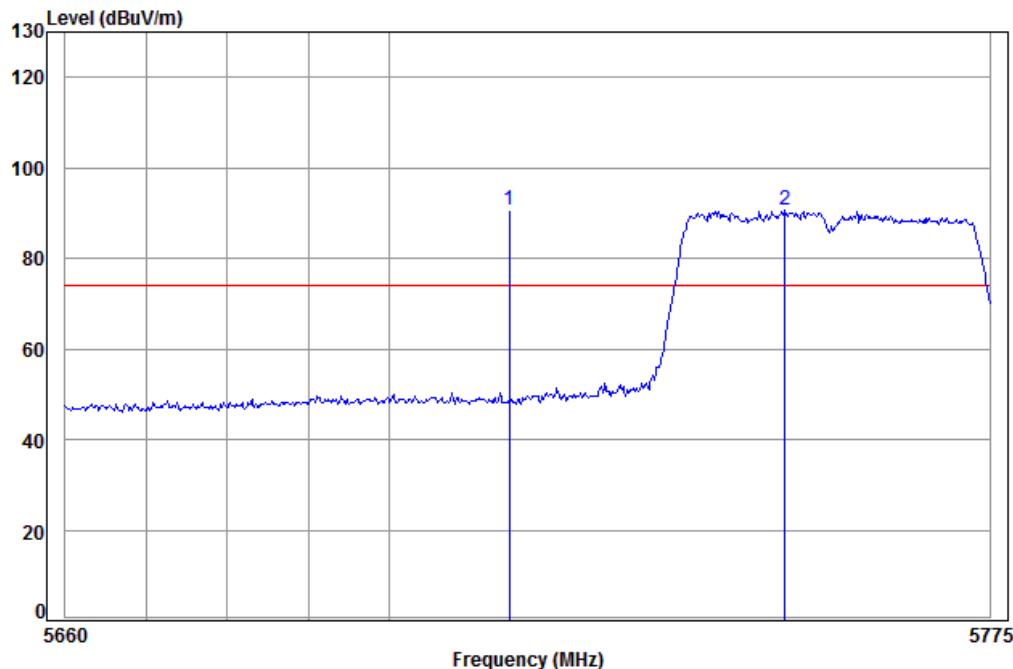
		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Limit
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	pp	5677.05	8.43	34.26	38.91	97.45	101.23	74.00 27.23
2		5725.00	8.48	34.24	38.92	53.25	57.05	74.00 -16.95

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 293 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5755	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5755 Band edge
: AC40

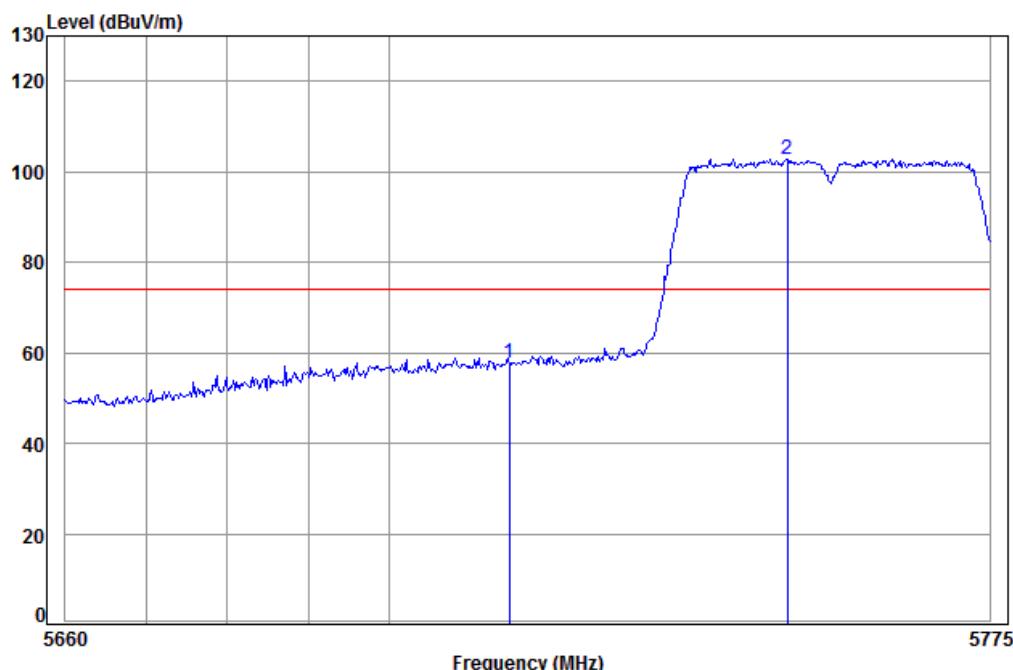
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 *	5715.00	8.47	34.24	38.91	86.76	90.56	74.00	16.56
2 pp	5749.39	8.50	34.22	38.92	86.77	90.57	74.00	16.57

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 294 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5755	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5755 Band edge
: AC40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m		dBuV	dBuV/m	dBuV/m	dB
1	5715.00	8.47	34.24	38.91	53.81	57.61	74.00	-16.39
2 pp	5749.62	8.51	34.22	38.92	98.92	102.73	74.00	28.73

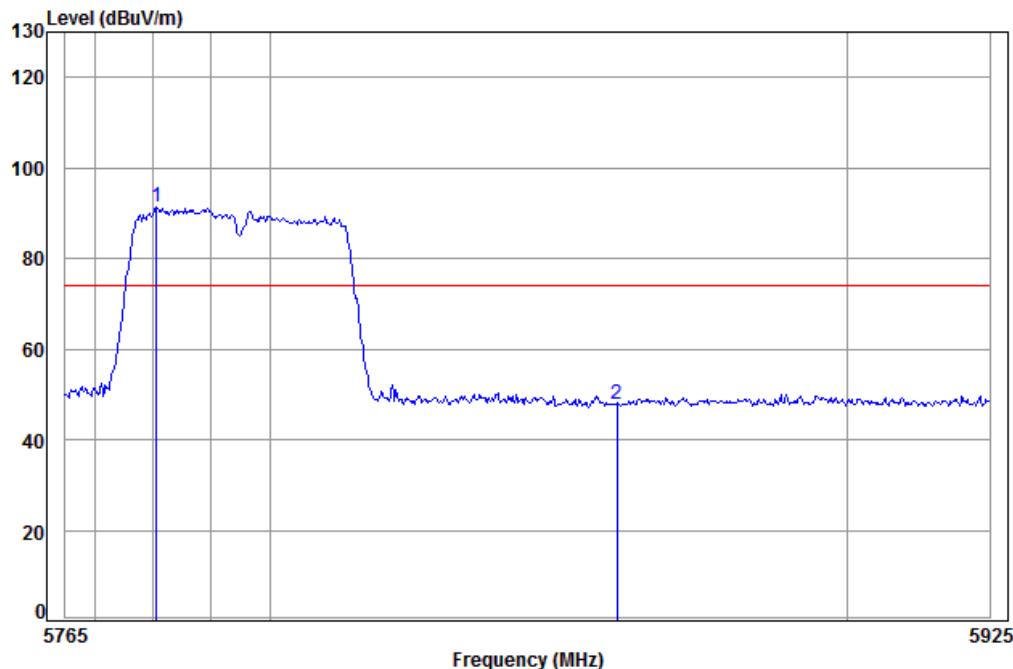


SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 295 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5795	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5795 Band edge
: AC40

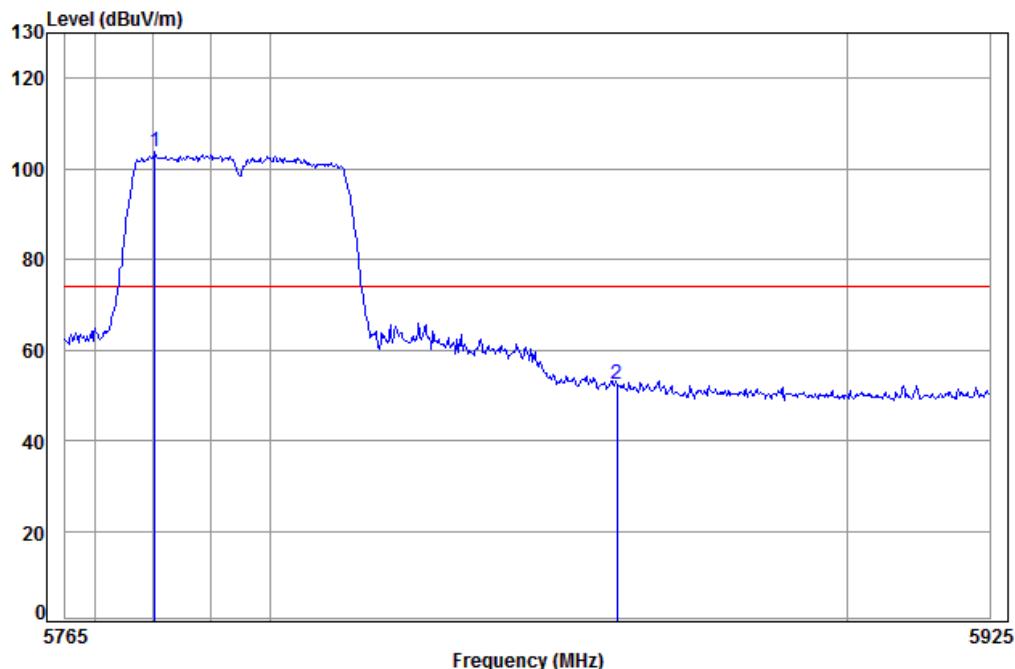
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5780.65	8.54	34.21	38.93	87.72	91.54	74.00	17.54
2	5860.00	8.61	34.35	38.94	43.90	47.92	74.00	-26.08

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 296 of 306

Test mode:	802.11 ac40	Frequency(MHz):	5795	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5795 Band edge
 : AC40

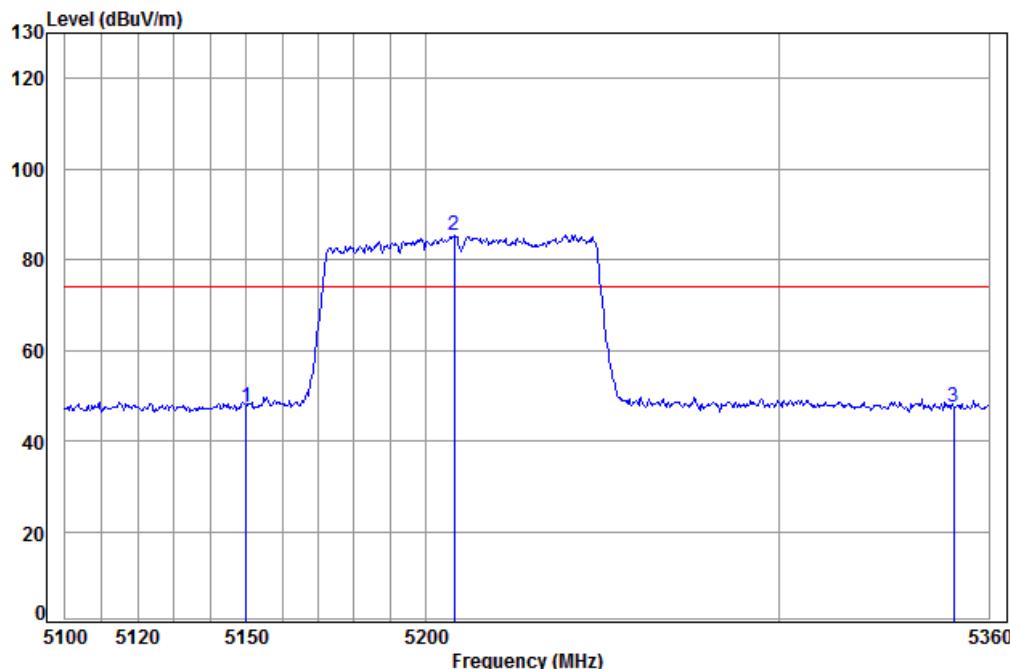
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m		dBuV	dBuV/m	dBuV/m	dB
1 pp	5780.33	8.54	34.21	38.93	99.88	103.70	74.00	29.70
2	5860.00	8.61	34.35	38.94	48.57	52.59	74.00	-21.41

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 297 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5210	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No. : 0659CR

Mode: : 5210 Band edge
: AC80

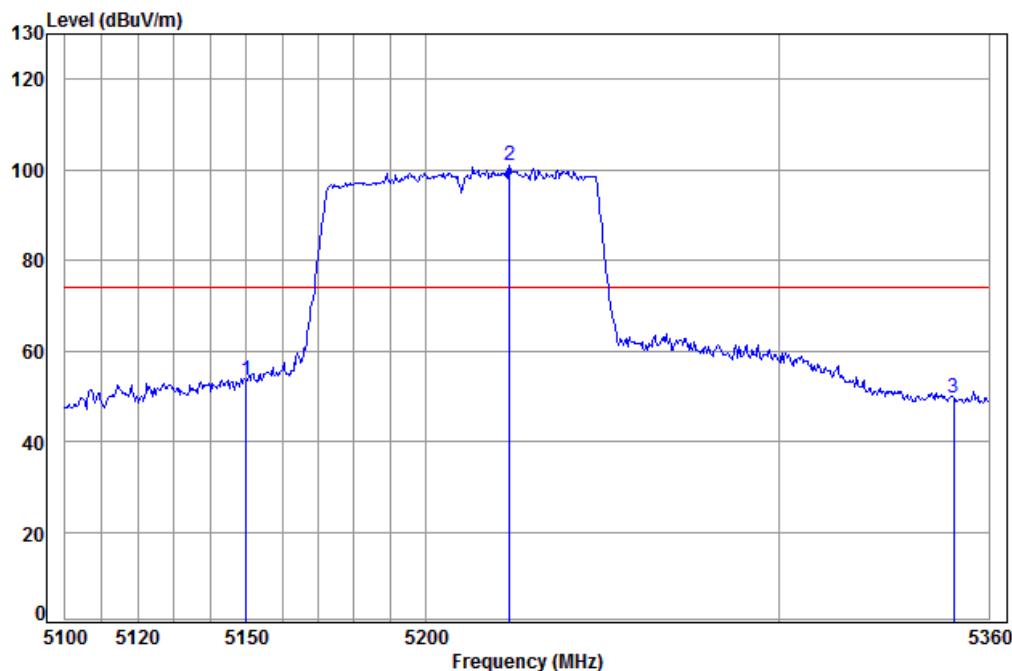
Freq	Cable	Ant	Preamp	Read	Limit	Over	
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	44.24	47.57	74.00 -26.43
2 pp	5207.89	8.11	34.02	38.83	82.20	85.50	74.00 11.50
3	5350.00	8.18	34.30	38.85	43.99	47.62	74.00 -26.38

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 298 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5210	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5210 Band edge
: AC80

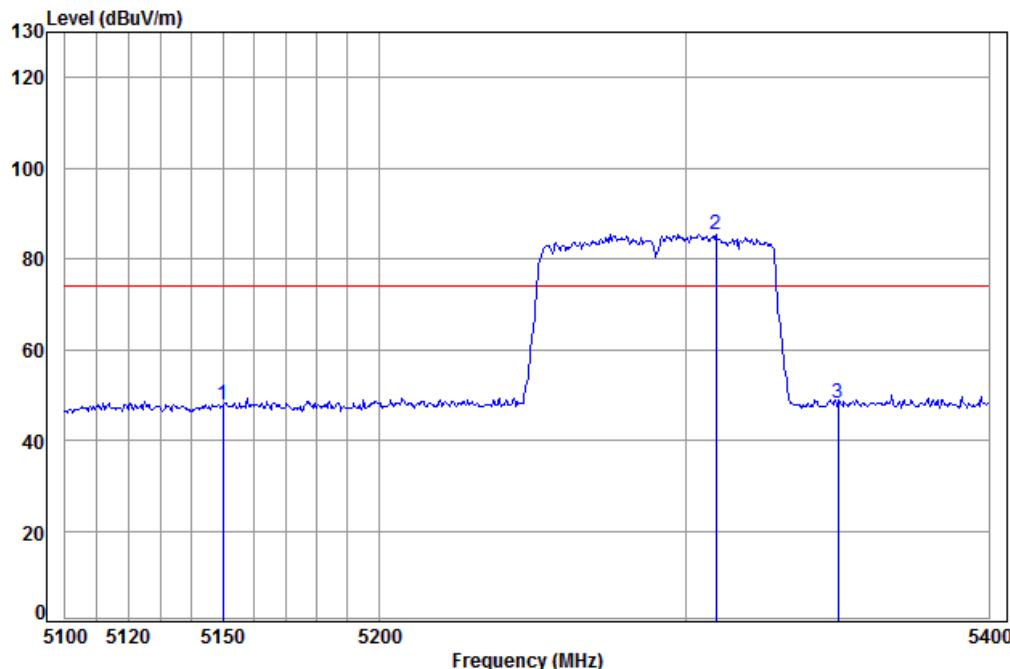
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	50.21	53.54	74.00	-20.46
2 pp	5223.45	8.11	34.05	38.83	97.51	100.84	74.00	26.84
3	5350.00	8.18	34.30	38.85	46.04	49.67	74.00	-24.33

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 299 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5290	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5290 Band edge
 : AC80

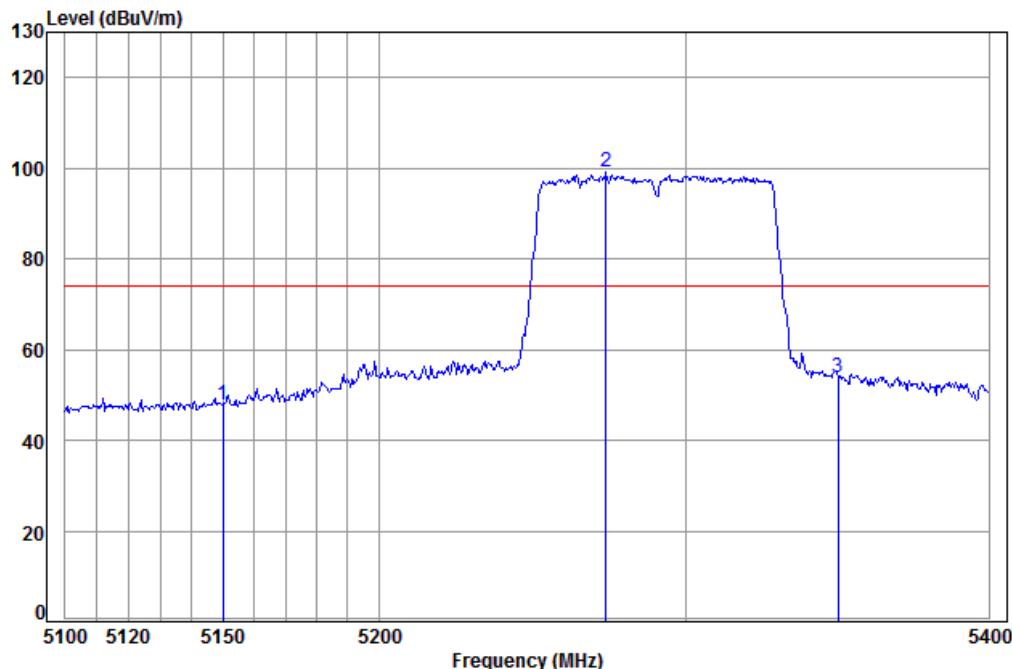
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	44.45	47.78	74.00	-26.22
2 pp	5309.71	8.16	34.22	38.85	81.82	85.35	74.00	11.35
3	5350.00	8.18	34.30	38.85	44.66	48.29	74.00	-25.71

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 300 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5290	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: : 0659CR

Mode: : 5290 Band edge

: AC80

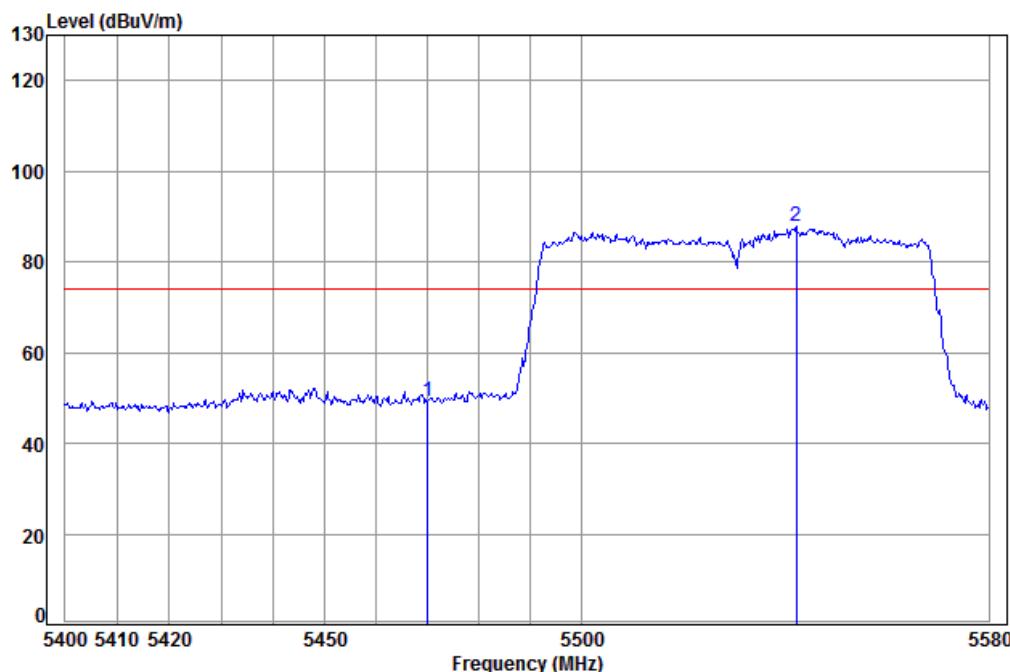
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5150.00	8.08	34.07	38.82	44.62	47.95	74.00	-26.05
2 pp	5273.72	8.14	34.15	38.84	95.66	99.11	74.00	25.11
3	5350.00	8.18	34.30	38.85	50.23	53.86	74.00	-20.14

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 301 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5530	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5530 Band edge
: AC80

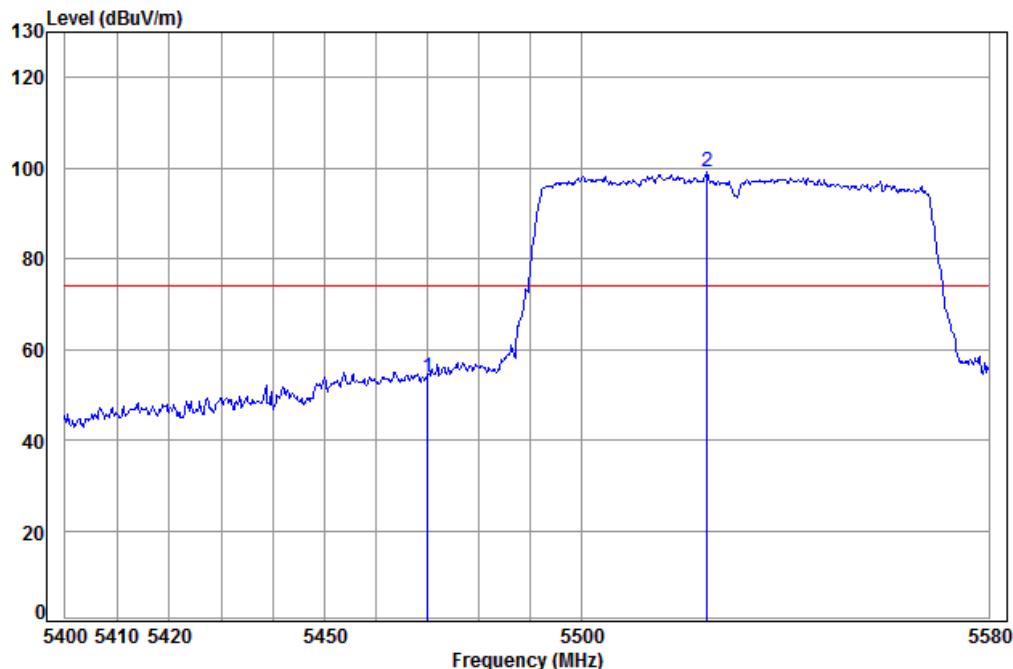
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	45.43	49.16	74.00	-24.84
2 pp	5542.07	8.29	34.33	38.89	84.10	87.83	74.00	13.83

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 302 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5530	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No.: 0659CR

Mode: 5530 Band edge

: AC80

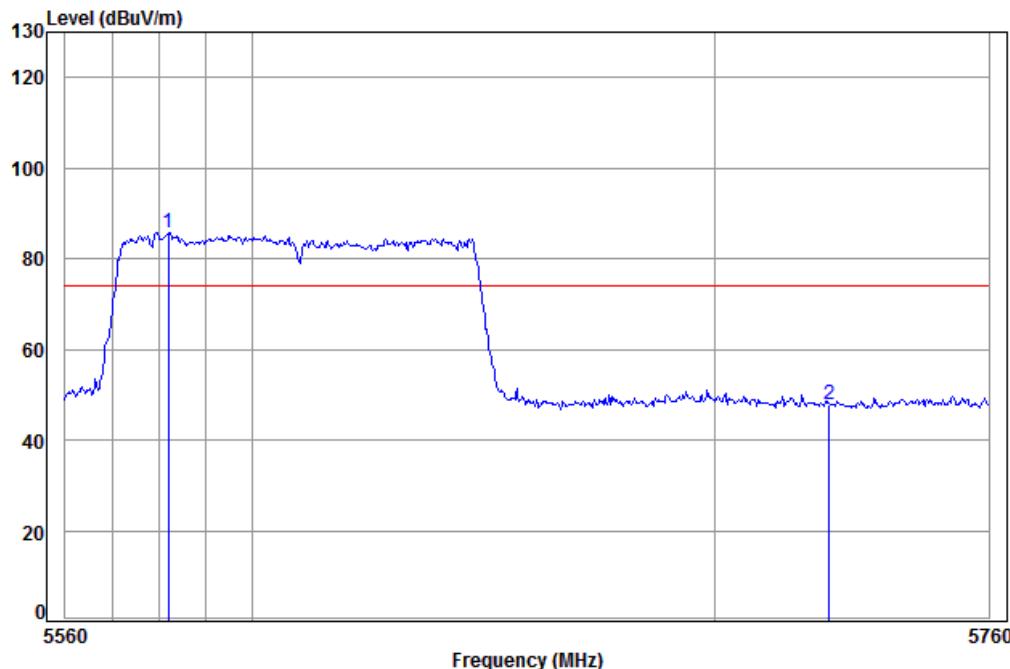
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5470.00	8.24	34.36	38.87	49.94	53.67	74.00	-20.33
2 pp	5524.47	8.28	34.34	38.88	95.55	99.29	74.00	25.29

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 303 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5610	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No: : 0659CR

Mode: : 5610 Band edge
: AC80

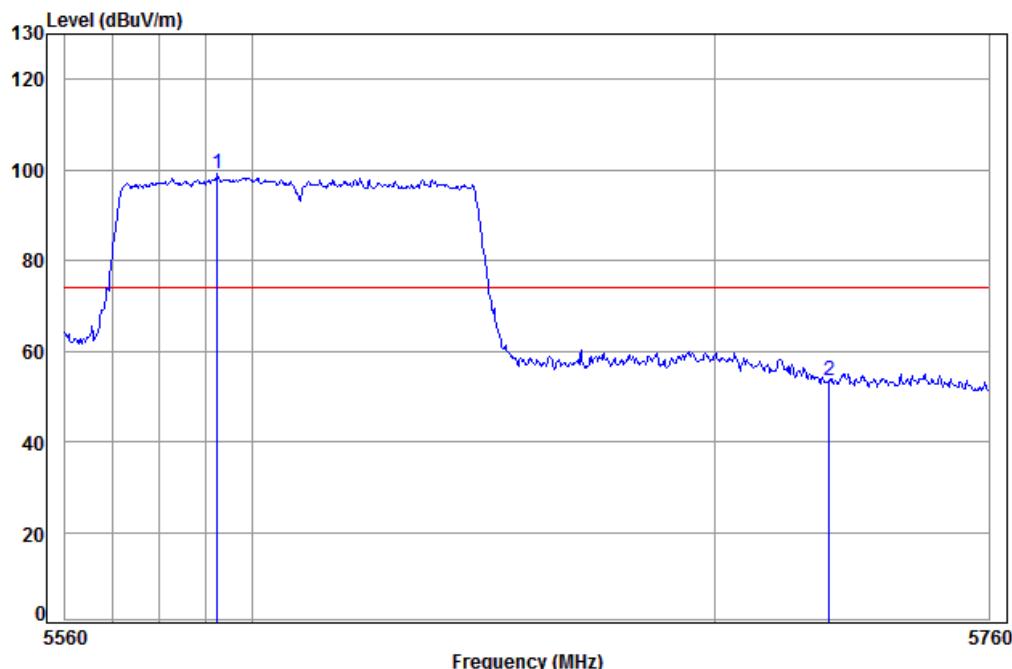
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	5582.05	8.34	34.31	38.89	82.04	85.80	74.00	11.80
2	5725.00	8.48	34.24	38.92	44.04	47.84	74.00	-26.16

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
Page: 304 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5610	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5610 Band edge
: AC80

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	5592.52	8.35	34.30	38.89	95.27	99.03	74.00 25.03
2	5725.00	8.48	34.24	38.92	49.86	53.66	74.00 -20.34



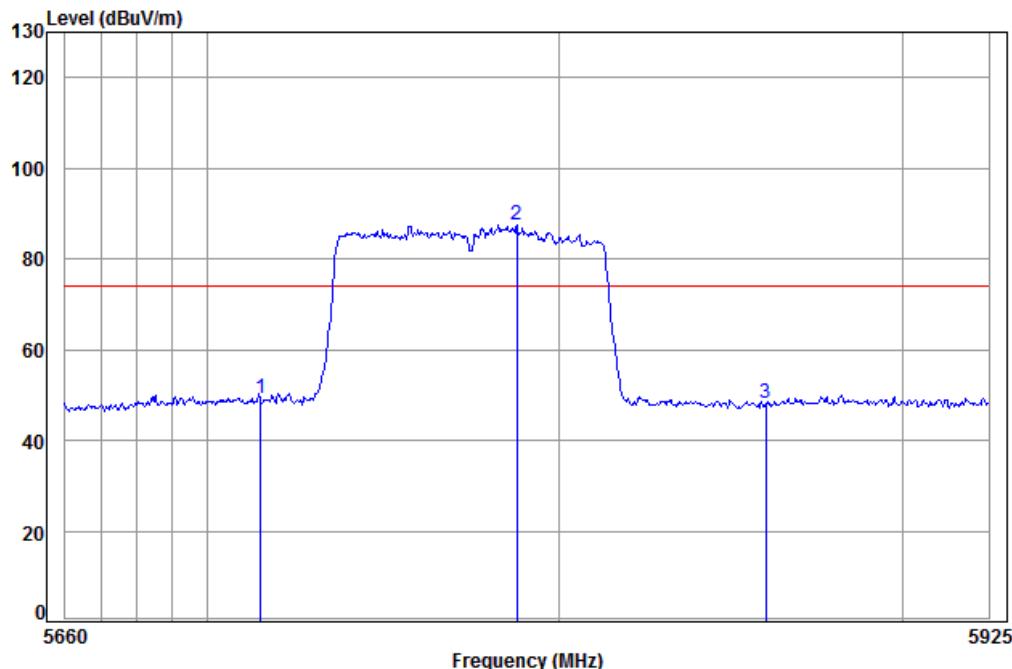
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm.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

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 305 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5775	Remark:	Peak	Vertical
------------	-------------	-----------------	------	---------	------	----------



Condition: 3m Vertical

Job No.: : 0659CR

Mode: : 5775 Band edge
 : AC80

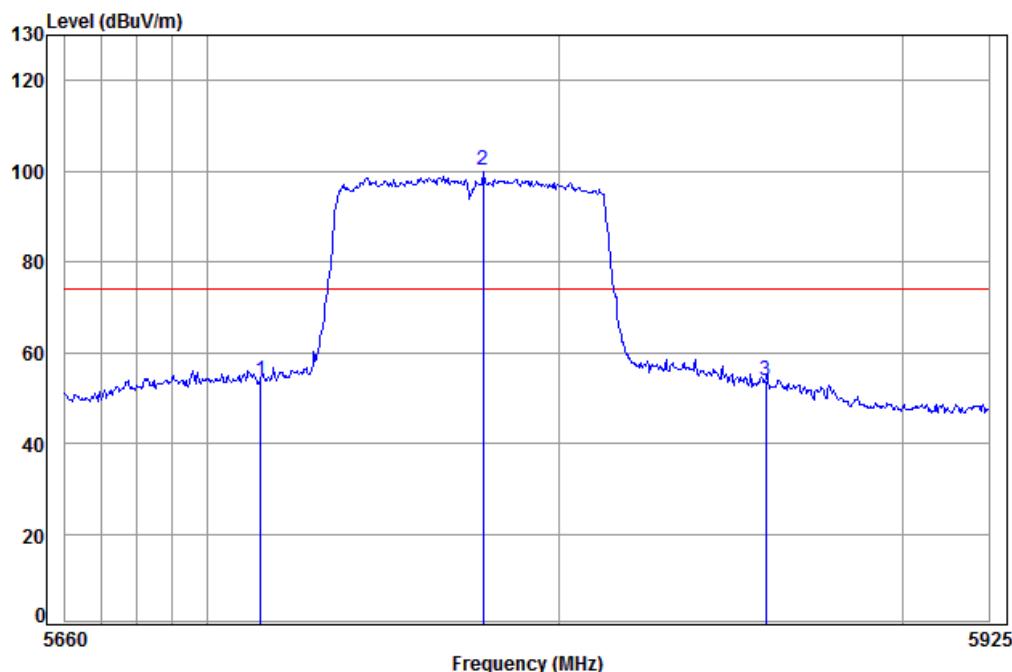
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	8.47	34.24	38.91	45.45	49.25	74.00	-24.75
2 pp	5788.07	8.54	34.21	38.93	83.78	87.60	74.00	13.60
3	5860.00	8.61	34.35	38.94	43.99	48.01	74.00	-25.99

SGS-CSTC Standards Technical Services Ltd.
Shenzhen Branch



Report No.: SZEM160200065905
 Page: 306 of 306

Test mode:	802.11 ac80	Frequency(MHz):	5775	Remark:	Peak	Horizontal
------------	-------------	-----------------	------	---------	------	------------



Condition: 3m Horizontal

Job No: : 0659CR

Mode: : 5775 Band edge
 : AC80

	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	
Freq	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	8.47	34.24	38.91	50.10	53.90	74.00	-20.10
2 pp	5778.54	8.53	34.21	38.92	96.34	100.16	74.00	26.16
3	5860.00	8.61	34.35	38.94	49.76	53.78	74.00	-20.22

Note:

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