

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 1 of 287

TEST REPORT

Application No.: SZCR2309003204AT
Applicant: Anzu Robotics LLC
Address of Applicant: c/o Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801
Manufacturer: Anzu Robotics LLC
Address of Manufacturer: c/o Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801
Equipment Under Test (EUT):
EUT Name: Raptor /Raptor T
Model No.: RAPTOR01, RAPTOR01 ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
FCC ID: 2BBYS-RAPTOR
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2023-09-28
Date of Test: 2023-10-25 to 2023-11-06
Date of Issue: 2023-11-08

Test Result:	Pass*
---------------------	--------------

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

Kenx. Xu

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.ssgsgroup.com.cn
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403
Page: 2 of 287

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-11-08		Original

Authorized for issue by:				
		Darren Yuan		
		Darren Yuan/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

Remark: KDB 789033 D02 is not accredited by A2LA

Declaration of EUT Family Grouping:

Model No.: RAPTOR01, RAPTOR01

Model RAPTOR01 was final tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on camera.

Remark: Pre-scans were performed on model RAPTOR01 and model RAPTOR01, model RAPTOR01 is the worst-case, only the worst-case test data were recorded in this report.



3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information	6
4.1 Details of E.U.T.	6
4.2 Description of Support Units	7
4.3 Measurement Uncertainty	8
4.4 Test Location	9
4.5 Test Facility	9
4.6 Deviation from Standards	9
4.7 Abnormalities from Standard Conditions	9
5 Equipment List	10
6 Radio Spectrum Technical Requirement	14
6.1 Antenna Requirement	14
6.1.1 Test Requirement:	14
6.1.2 Conclusion	14
6.2 Transmission in the Absence of Data	15
6.2.1 Test Requirement:	15
6.2.2 Conclusion	15
7 Radio Spectrum Matter Test Results	16
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	16
7.1.1 E.U.T. Operation	16
7.1.2 Test Mode Description	16
7.1.3 Test Setup Diagram	17
7.1.4 Measurement Procedure and Data	17
7.2 Duty Cycle	20
7.2.1 E.U.T. Operation	20
7.2.2 Test Mode Description	20
7.2.3 Test Setup Diagram	20
7.2.4 Measurement Procedure and Data	20
7.3 99% Bandwidth	21
7.3.1 E.U.T. Operation	21
7.3.2 Test Mode Description	21
7.3.3 Test Setup Diagram	21
7.3.4 Measurement Procedure and Data	21
7.4 26dB Emission bandwidth	22
7.4.1 E.U.T. Operation	22
7.4.2 Test Mode Description	22
7.4.3 Test Setup Diagram	22



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 5 of 287

7.4.4	Measurement Procedure and Data.....	22
7.5	Minimum 6 dB bandwidth (5.725-5.85 GHz band).....	23
7.5.1	E.U.T. Operation.....	23
7.5.2	Test Mode Description.....	23
7.5.3	Test Setup Diagram.....	23
7.5.4	Measurement Procedure and Data.....	23
7.6	Maximum Conducted output power.....	24
7.6.1	E.U.T. Operation.....	24
7.6.2	Test Mode Description.....	24
7.6.3	Test Setup Diagram.....	25
7.6.4	Measurement Procedure and Data.....	25
7.7	Peak Power spectrum density.....	26
7.7.1	E.U.T. Operation.....	26
7.7.2	Test Mode Description.....	26
7.7.3	Test Setup Diagram.....	27
7.7.4	Measurement Procedure and Data.....	27
7.8	Radiated Emissions (Below 1GHz).....	28
7.8.1	E.U.T. Operation.....	28
7.8.2	Test Mode Description.....	28
7.8.3	Test Setup Diagram.....	29
7.8.4	Measurement Procedure and Data.....	30
7.9	Radiated Emissions (Above 1GHz).....	33
7.9.1	E.U.T. Operation.....	33
7.9.2	Test Mode Description.....	33
7.9.3	Test Setup Diagram.....	34
7.9.4	Measurement Procedure and Data.....	35
7.10	Radiated Emissions which fall in the restricted bands.....	42
7.10.1	E.U.T. Operation.....	42
7.10.2	Test Mode Description.....	43
7.10.3	Test Setup Diagram.....	43
7.10.4	Measurement Procedure and Data.....	44
7.11	Frequency Stability.....	89
7.11.1	E.U.T. Operation.....	89
7.11.2	Test Mode Description.....	89
7.11.3	Test Setup Diagram.....	89
7.11.4	Measurement Procedure and Data.....	89
8	Test Setup Photo.....	90
9	EUT Constructional Details (EUT Photos).....	90
10	Appendix.....	91



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SZEMC) EMC Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by Lithium Ion Polymer Rechargeable Battery Battery information Model: RBATT01 Rated Voltage: 15.4V DC Rated Capacity: 5000mAh, 77Wh
Operation Frequency:	5.1G SDR 10MHz: 5156MHz-5245MHz 20MHz: 5161MHz-5240MHz 40MHz: 5170MHz-5230MHz 5.8G SDR 1.4MHz: 5728.5MHz-5846.5MHz 1.4MHz CA: 5730.12MHz-5848.12MHz 3MHz: 5727.5MHz-5844.5MHz 3MHz CA: 5730.2MHz-5847.2MHz 10MHz: 5730.5MHz-5844.5MHz 20MHz: 5735.5MHz-5839.5MHz 40MHz: 5745.5MHz-5829.5MHz
Modulation Type:	OFDM
Channel Spacing:	5.1G SDR 10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz 5.8G SDR 1.4MHz: 2MHz 1.4MHz CA: 2MHz 3MHz: 3MHz 3MHz CA: 3MHz 10MHz: 1MHz 20MHz: 1MHz 40MHz: 1MHz



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 7 of 287

Number of Channels:	5.1G SDR 10MHz: 90 20MHz: 80 40MHz: 61 5.8G SDR 1.4MHz: 60 1.4MHz CA: 60 3MHz: 40 3MHz CA: 40 5MHz: 23 10MHz: 115 20MHz: 105 40MHz: 85
Antenna Type:	PCB Antenna
Antenna Gain:	5.1G SDR: ANT0&ANT1: 1dBi; ANT2&ANT3: 3dBi 5.8G SDR: ANT0&ANT3: 3dBi; ANT1&ANT2: 2.5dBi
Cable Loss (for RF conducted test):	5.1G SDR: 1.3dB 5.8G SDR: 1.7dB

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Power Adapter	HONOR	RUSBCPA01	N/A



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
Frequency Stability	$\pm 7.25 \times 10^{-8}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 9 of 287

4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

• 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 (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19
Matching Pad	N/A	N/A	SEM021-23	2023-03-22	2024-03-21
Matching Pad	N/A	N/A	SEM021-24	2023-03-22	2024-03-21
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

99% Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 11 of 287

26dB Emission bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 12 of 287

Peak Power spectrum density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 13 of 287

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06

Frequency Stability					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing Service Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard 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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antennas are follows:

5.1G SDR: ANT0&ANT1: 1dBi; ANT2&ANT3: 3dBi, the directional gain is 6.01dBi.

5.8G SDR: ANT0&ANT3: 3dBi; ANT1&ANT2: 2.5dBi, the directional gain is 6.01dBi.

Antenna location: Refer to internal photo.



6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

SDR chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	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.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	Charge + TX mode(5.1G SDR 10MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	13	Charge + TX mode(5.1G SDR 20MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	15	Charge + TX mode(5.1G SDR 40MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	17	Charge + TX mode(5.8G SDR 1.4MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	19	Charge + TX mode(5.8G SDR 3MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	21	Charge + TX mode(5.8G SDR 10MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	23	Charge + TX mode(5.8G SDR 20MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	25	Charge + TX mode(5.8G SDR 40MHz)_Keep the EUT in charging and continuously transmitting mode.



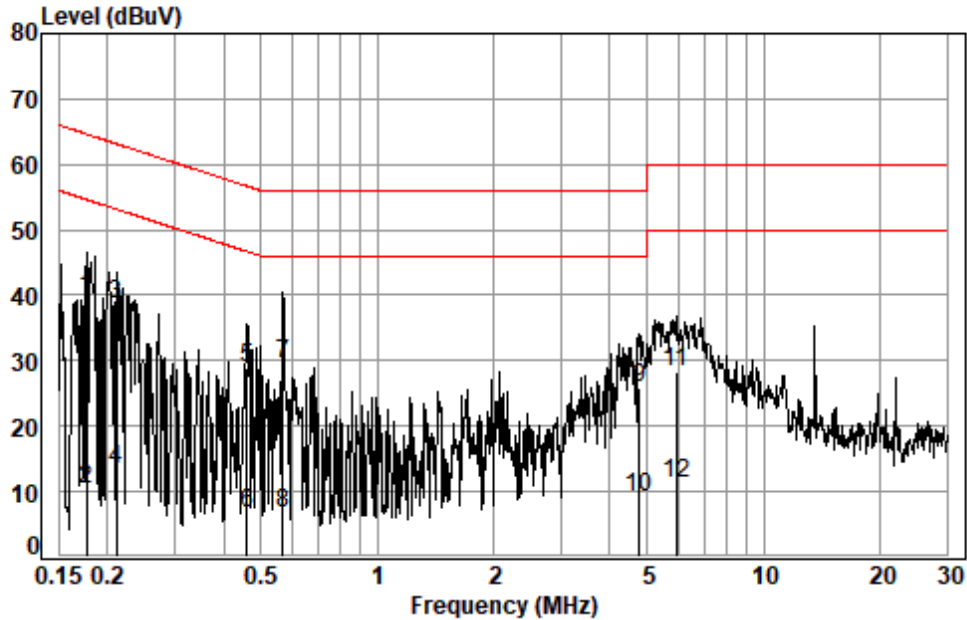
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 18 of 287

Test Mode: 11; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03204AT
Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1768	0.02	10.27	29.29	39.58	64.64	-25.06	QP
2	0.1768	0.02	10.27	0.09	10.38	54.64	-44.26	Average
3 *	0.2117	0.02	10.28	28.29	38.59	63.14	-24.55	QP
4	0.2117	0.02	10.28	3.18	13.48	53.14	-39.66	Average
5	0.4588	0.04	10.34	18.61	28.99	56.71	-27.72	QP
6	0.4588	0.04	10.34	-3.82	6.56	46.71	-40.15	Average
7	0.5701	0.04	10.34	19.06	29.44	56.00	-26.56	QP
8	0.5701	0.04	10.34	-3.81	6.57	46.00	-39.43	Average
9	4.7716	0.09	10.71	14.93	25.73	56.00	-30.27	QP
10 *	4.7716	0.09	10.71	-1.79	9.01	46.00	-36.99	Average
11	5.9293	0.10	10.97	17.29	28.36	60.00	-31.64	QP
12	5.9293	0.10	10.97	0.18	11.25	50.00	-38.75	Average



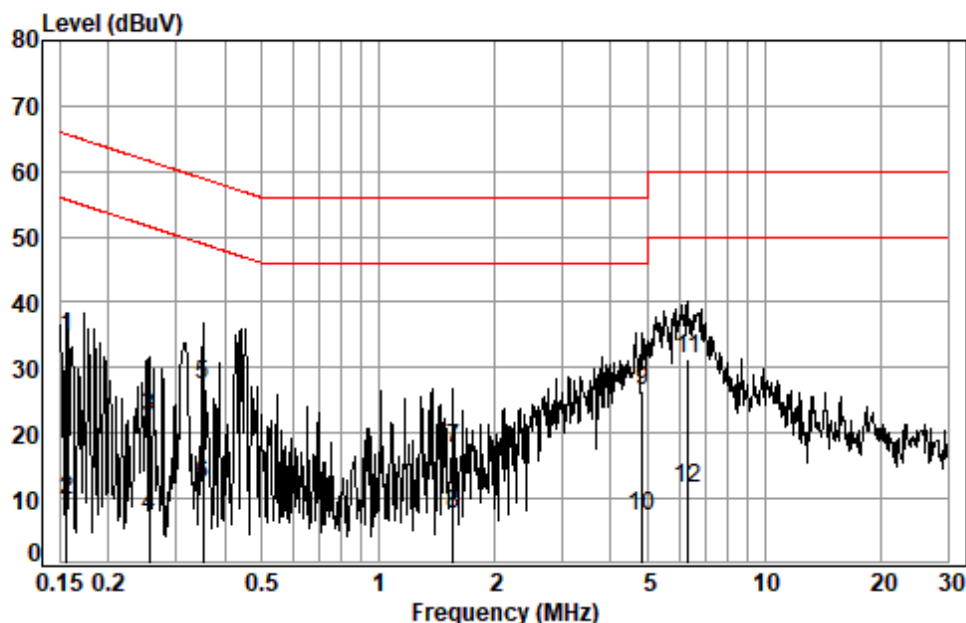
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 19 of 287

Test Mode: 11; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 03204AT

Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1565	0.02	10.24	24.44	34.70	65.65	-30.95	QP
2	0.1565	0.02	10.24	-0.40	9.86	55.65	-45.79	Average
3	0.2548	0.03	10.26	12.19	22.48	61.60	-39.12	QP
4	0.2548	0.03	10.26	-3.00	7.29	51.60	-44.31	Average
5	0.3520	0.03	10.28	17.15	27.46	58.91	-31.45	QP
6 *	0.3520	0.03	10.28	1.77	12.08	48.91	-36.83	Average
7	1.5601	0.06	10.33	7.11	17.50	56.00	-38.50	QP
8	1.5601	0.06	10.33	-2.64	7.75	46.00	-38.25	Average
9	4.8224	0.09	10.71	15.54	26.34	56.00	-29.66	QP
10	4.8224	0.09	10.71	-3.61	7.19	46.00	-38.81	Average
11 *	6.3521	0.11	11.07	20.09	31.27	60.00	-28.73	QP
12	6.3521	0.11	11.07	0.26	11.44	50.00	-38.56	Average



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.2 Duty Cycle

Test Requirement KDB 789033 D02 II B 1
Test Method: KDB 789033 II B 1

7.2.1 E.U.T. Operation

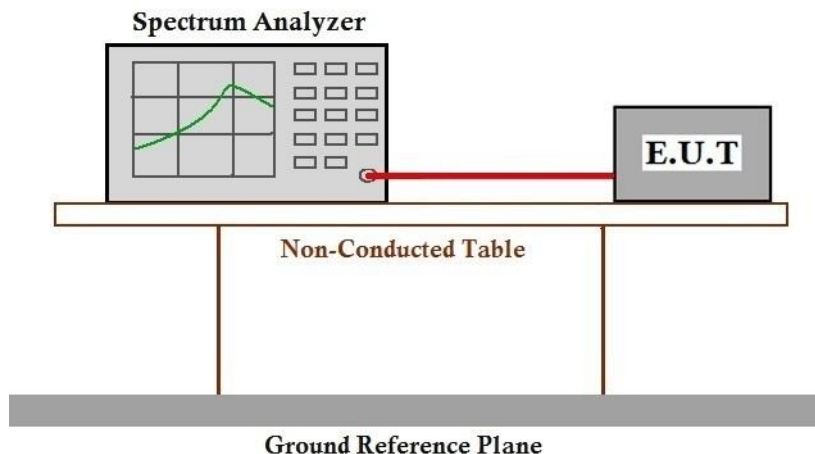
Operating Environment:

Temperature: 24.9 °C Humidity: 42.7 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode(5.1G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	12	TX mode(5.1G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	14	TX mode(5.1G SDR 40MHz)_Keep the EUT in continuously transmitting mode.
Final test	16	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode.
Final test	18	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode.
Final test	20	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	22	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	24	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.3 99% Bandwidth

Test Requirement N/A
Test Method: KDB 789033 II D

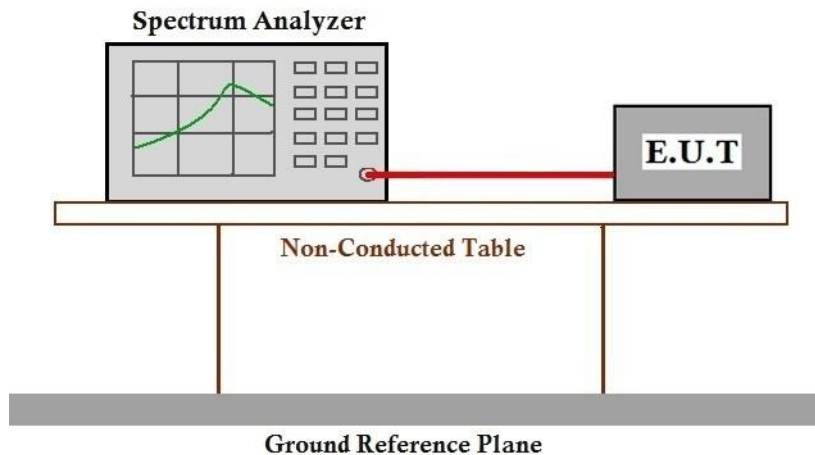
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 24.9 °C Humidity: 42.7 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode(5.1G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	12	TX mode(5.1G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	14	TX mode(5.1G SDR 40MHz)_Keep the EUT in continuously transmitting mode.
Final test	16	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode.
Final test	18	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode.
Final test	20	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	22	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	24	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.4 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

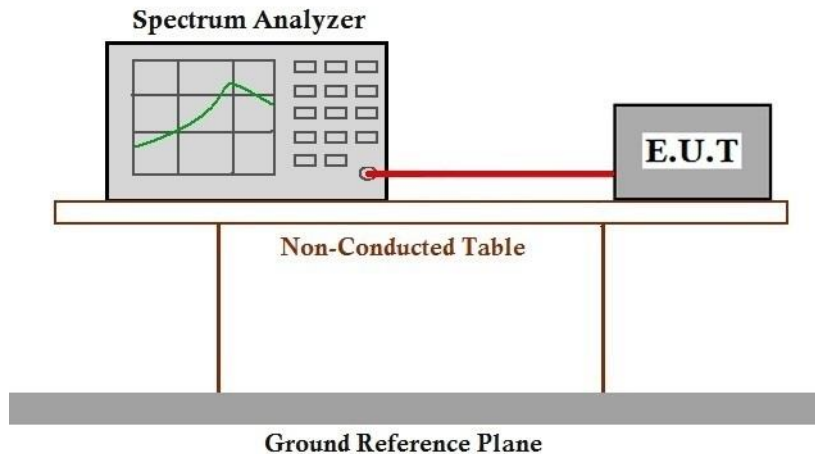
Operating Environment:

Temperature: 24.9 °C Humidity: 42.7 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode(5.1G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	12	TX mode(5.1G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	14	TX mode(5.1G SDR 40MHz)_Keep the EUT in continuously transmitting mode.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

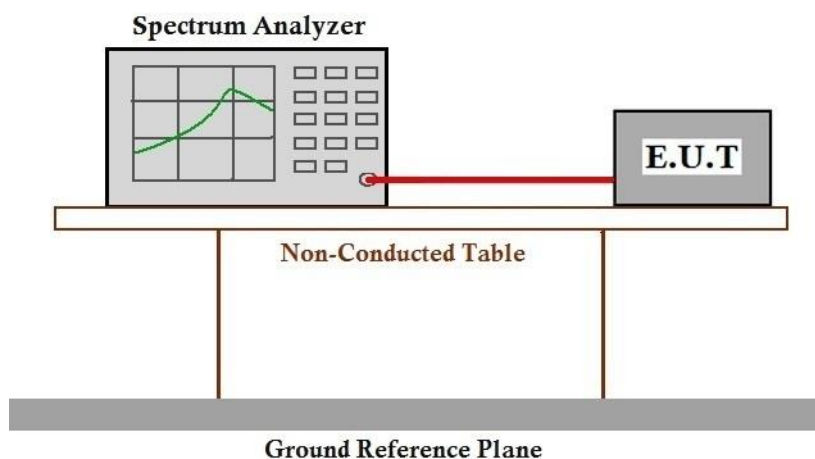
Humidity: 42.7 % RH

Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode.
Final test	18	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode.
Final test	20	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	22	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	24	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	<p>* Where B is the 26dB emission bandwidth in MHz.</p> <p>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</p>

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

Humidity: 42.7 % RH

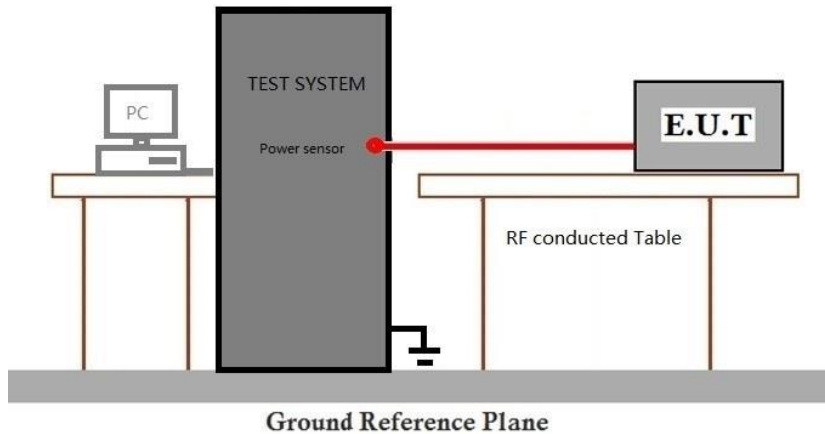
Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode(5.1G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	12	TX mode(5.1G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	14	TX mode(5.1G SDR 40MHz)_Keep the EUT in continuously transmitting mode.
Final test	16	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode.
Final test	18	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode.
Final test	20	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	22	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	24	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode.



7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

7.7 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

Humidity: 42.7 % RH

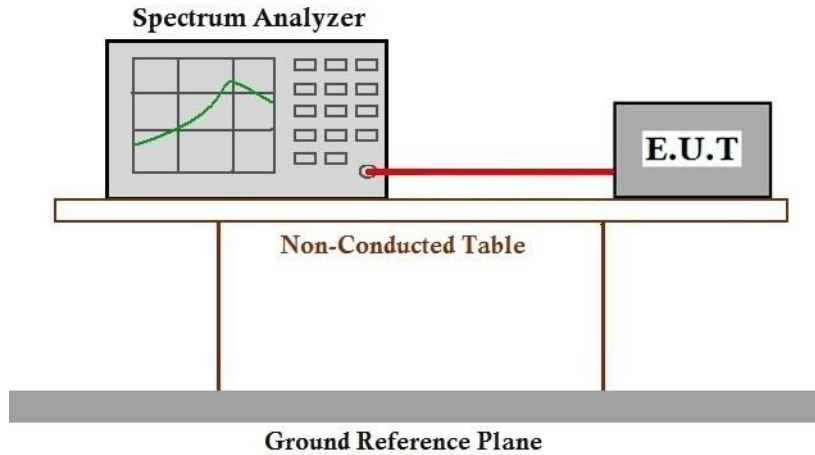
Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode(5.1G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	12	TX mode(5.1G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	14	TX mode(5.1G SDR 40MHz)_Keep the EUT in continuously transmitting mode.
Final test	16	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode.
Final test	18	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode.
Final test	20	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	22	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	24	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode.



7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 45.8 % RH

Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	TX mode(5.1G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	11	Charge + TX mode(5.1G SDR 10MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	12	TX mode(5.1G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	13	Charge + TX mode(5.1G SDR 20MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	14	TX mode(5.1G SDR 40MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	15	Charge + TX mode(5.1G SDR 40MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	16	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	17	Charge + TX mode(5.8G SDR 1.4MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	18	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	19	Charge + TX mode(5.8G SDR 3MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	20	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

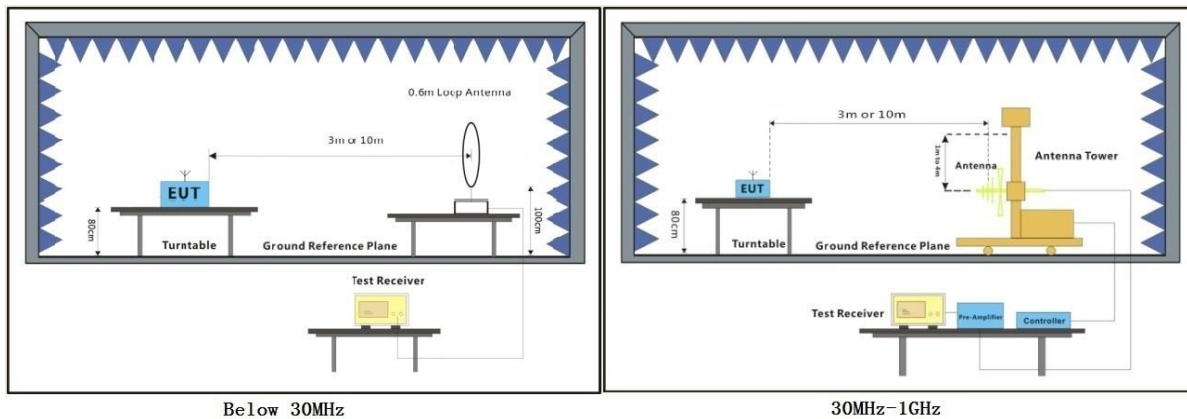
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Final test	21	Charge + TX mode(5.8G SDR 10MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	22	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	23	Charge + TX mode(5.8G SDR 20MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	24	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	25	Charge + TX mode(5.8G SDR 40MHz)_Keep the EUT in charging and continuously transmitting mode.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

- a. For below 1GHz, 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.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the middle channel of 10MHz. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



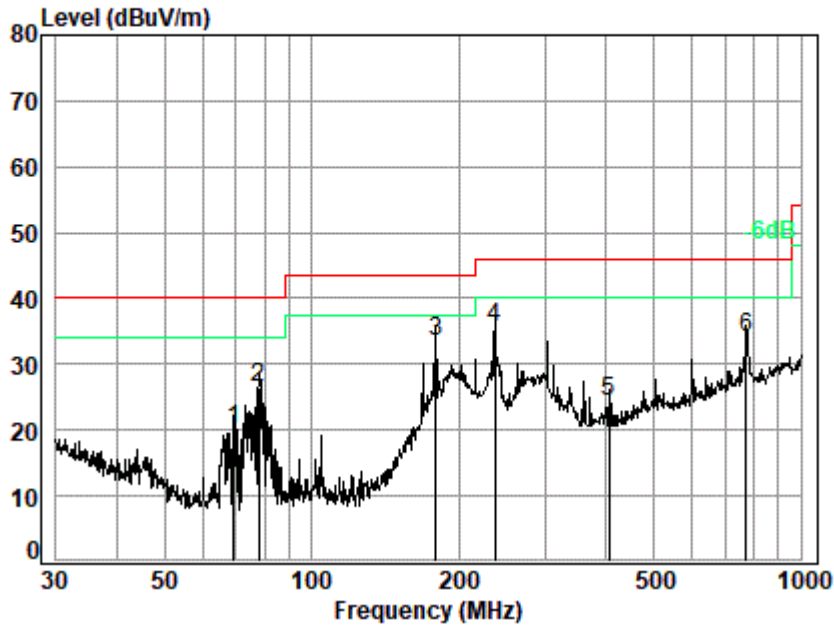
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 31 of 287

Test Mode: 21; Polarity: Horizontal; Modulation: OFDM; Channel: Middle



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03204AT
Test Mode: 21

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	69.36	10.65	0.99	27.70	36.15	20.09	40.00	-19.91 QP
2	77.87	10.39	1.05	27.67	42.71	26.48	40.00	-13.52 QP
3 q	179.39	14.07	1.62	27.32	45.11	33.48	43.50	-10.02 QP
4	236.64	17.13	1.89	27.12	43.54	35.44	46.00	-10.56 QP
5	404.67	20.54	2.57	27.36	28.49	24.24	46.00	-21.76 QP
6	774.16	26.81	3.75	27.69	31.09	33.96	46.00	-12.04 QP



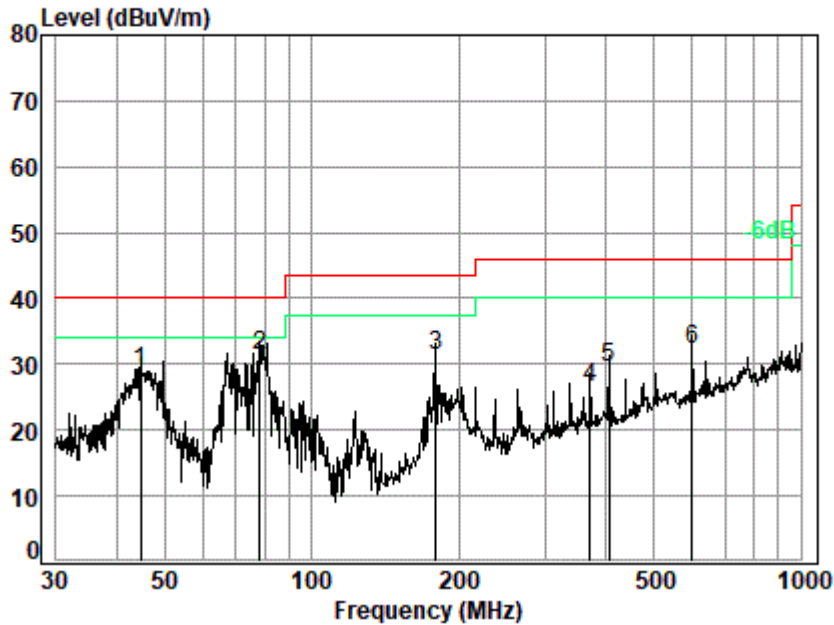
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 21; Polarity: Vertical; Modulation: OFDM; Channel: Middle



Site : chamber
Condition: 3m VERTICAL
Job No. : 03204AT
Test Mode: 21

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	44.74	14.33	0.79	27.76	41.57	28.93	40.00	-11.07 QP
2 q	78.14	10.39	1.05	27.67	47.66	31.43	40.00	-8.57 QP
3	179.39	14.07	1.62	27.32	42.92	31.29	43.50	-12.21 QP
4	370.70	20.46	2.44	27.21	30.83	26.52	46.00	-19.48 QP
5	404.67	20.54	2.57	27.36	33.71	29.46	46.00	-16.54 QP
6	599.32	24.42	3.21	28.23	32.97	32.37	46.00	-13.63 QP



7.9 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
<p>*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.</p>		

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 52.9 % RH

Atmospheric Pressure: 1000 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	TX mode(5.1G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	11	Charge + TX mode(5.1G SDR 10MHz)_Keep the EUT in charging and continuously



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

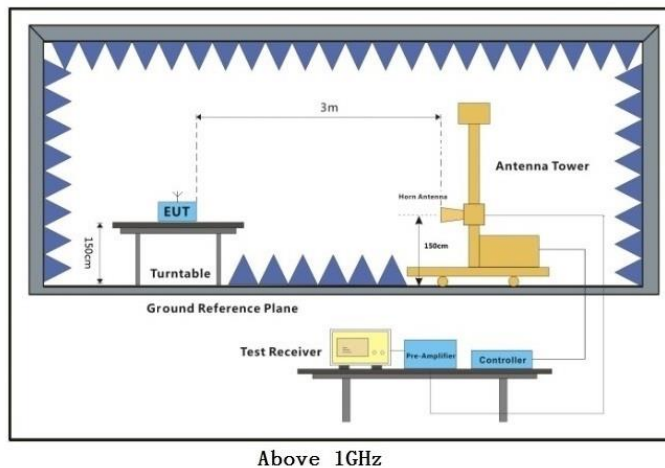
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Shenzhen EMC Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

		transmitting mode.
Pre-scan	12	TX mode(5.1G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	13	Charge + TX mode(5.1G SDR 20MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	14	TX mode(5.1G SDR 40MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	15	Charge + TX mode(5.1G SDR 40MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	16	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	17	Charge + TX mode(5.8G SDR 1.4MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	18	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	19	Charge + TX mode(5.8G SDR 3MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	20	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	21	Charge + TX mode(5.8G SDR 10MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	22	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	23	Charge + TX mode(5.8G SDR 20MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	24	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode.
Pre-scan	25	Charge + TX mode(5.8G SDR 40MHz)_Keep the EUT in charging and continuously transmitting mode.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

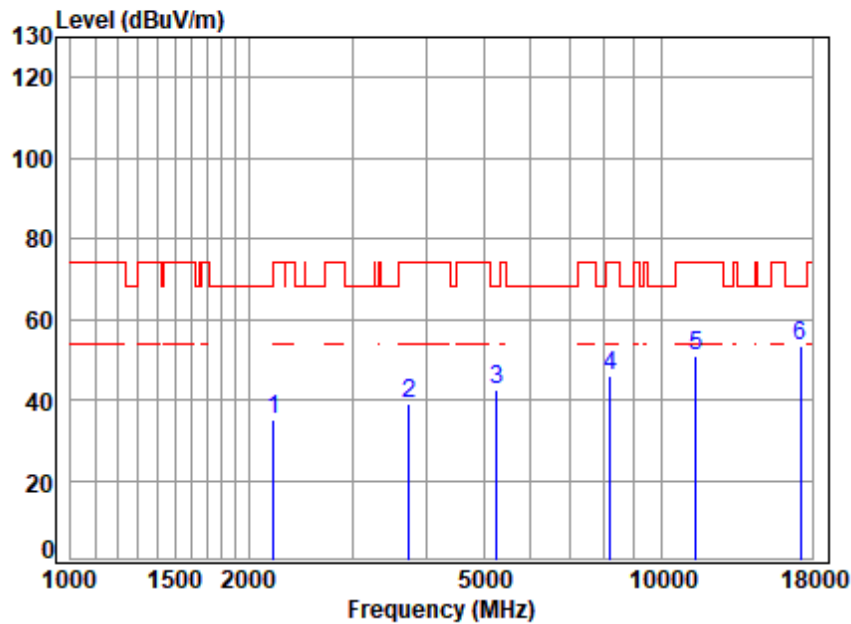
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
5. 10MHz mode is the worst-case, only the worst-case test data were recorded in this report.



Test Mode: 21; Polarity: Horizontal; Modulation: OFDM; Channel: Low

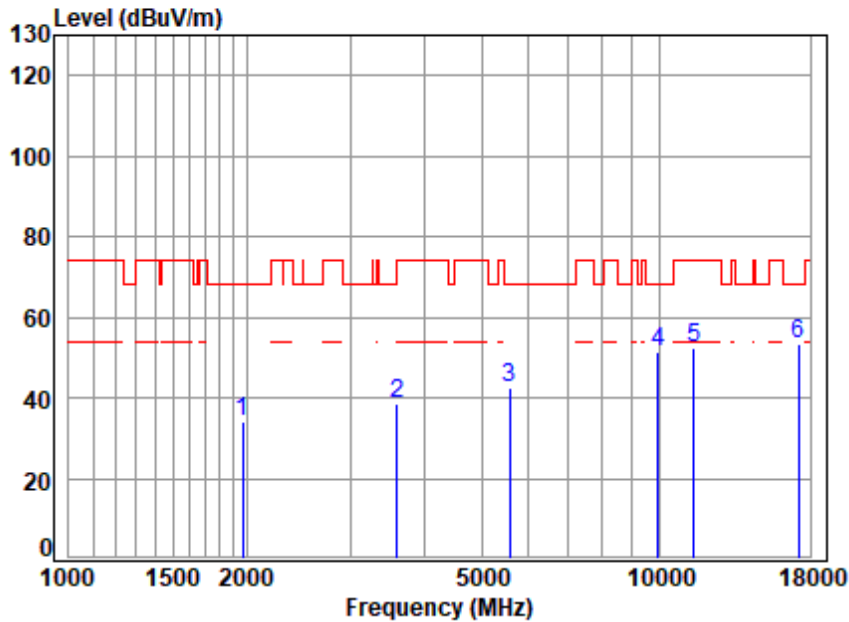


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5730.5 TX RSE
Note : 10M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2207.72	4.90	27.82	37.89	40.04	34.87	74.00	-39.13	Peak
2	3746.79	6.51	32.91	36.11	35.86	39.17	74.00	-34.83	Peak
3	5254.44	7.63	34.11	35.26	35.79	42.27	68.20	-25.93	Peak
4	8200.46	10.48	36.60	36.78	35.61	45.91	74.00	-28.09	Peak
5	11461.00	12.99	37.76	37.70	38.03	51.08	74.00	-22.92	Peak
6	17191.50	14.68	43.01	37.54	33.24	53.39	68.20	-14.81	Peak



Test Mode: 21; Polarity: Vertical; Modulation: OFDM; Channel: Low

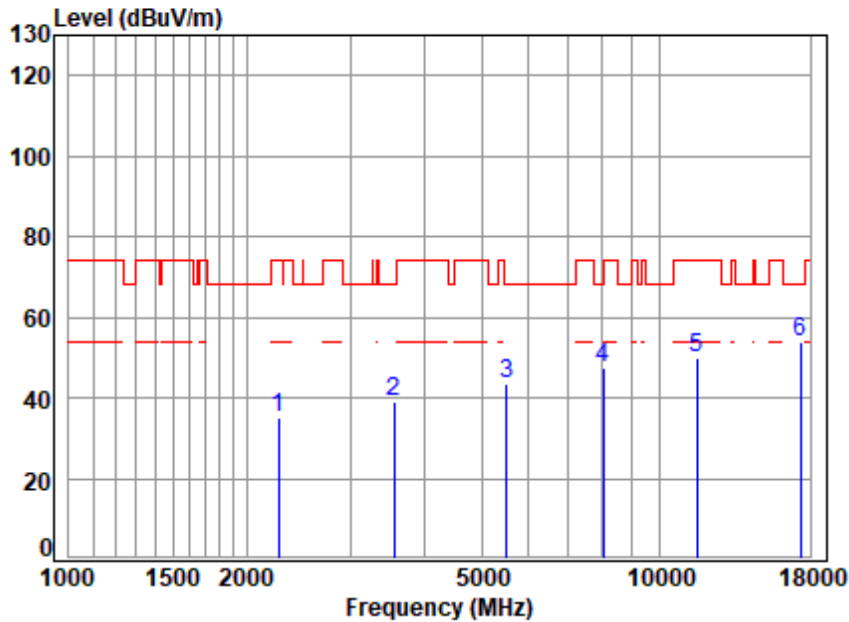


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5730.5 TX RSE
Note : 10M

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1966.68	4.64	28.20	38.45	39.88	34.27	68.20	-33.93	Peak
2	3598.20	6.34	32.08	36.11	36.15	38.46	68.20	-29.74	Peak
3	5583.25	7.88	34.70	35.09	34.95	42.44	68.20	-25.76	Peak
4	9952.72	12.60	37.30	37.38	38.75	51.27	68.20	-16.93	Peak
5	11461.00	12.99	37.76	37.70	39.52	52.57	74.00	-21.43	Peak
6	17191.50	14.68	43.01	37.54	33.00	53.15	68.20	-15.05	Peak



Test Mode: 21; Polarity: Horizontal; Modulation: OFDM; Channel: Middle

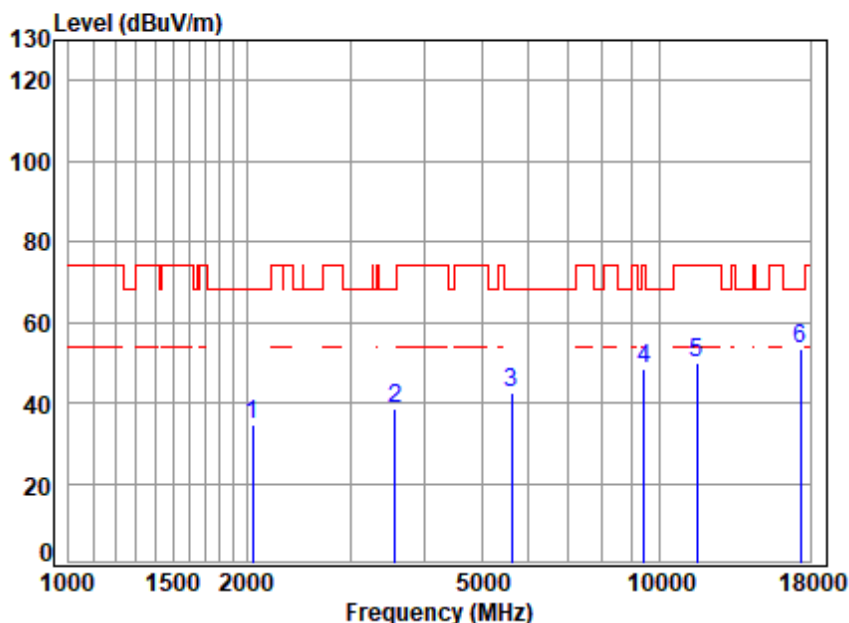


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5784.5 TX RSE
Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2265.91	4.96	28.06	37.74	39.63	34.91	74.00	-39.09 Peak
2	3556.84	6.29	31.67	36.12	37.10	38.94	68.20	-29.26 Peak
3	5519.07	7.83	34.58	35.12	36.02	43.31	68.20	-24.89 Peak
4	8036.21	10.17	36.40	36.60	37.26	47.23	74.00	-26.77 Peak
5	11569.00	13.01	37.73	37.67	36.96	50.03	74.00	-23.97 Peak
6	17353.50	14.77	43.26	37.56	33.25	53.72	68.20	-14.48 Peak



Test Mode: 21; Polarity: Vertical; Modulation: OFDM; Channel: Middle

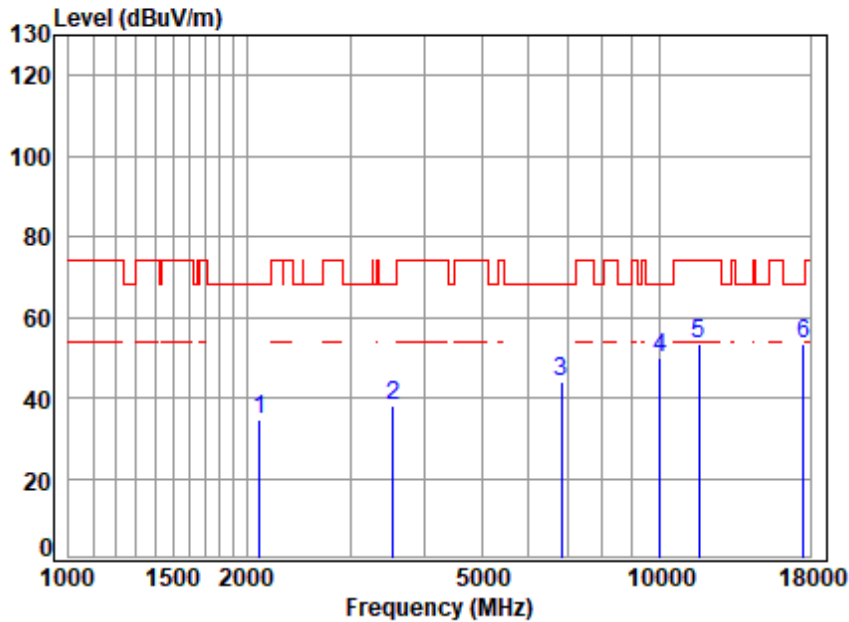


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5784.5 TX RSE
Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2047.90	4.73	28.99	38.32	39.19	34.59	68.20	-33.61 Peak
2	3567.14	6.30	31.77	36.12	36.46	38.41	68.20	-29.79 Peak
3	5631.88	7.91	34.51	35.07	34.92	42.27	68.20	-25.93 Peak
4	9420.88	12.23	37.34	37.51	36.50	48.56	74.00	-25.44 Peak
5	11569.00	13.01	37.73	37.67	37.01	50.08	74.00	-23.92 Peak
6	17353.50	14.77	43.26	37.56	32.96	53.43	68.20	-14.77 Peak



Test Mode: 21; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03204AT/03205AT

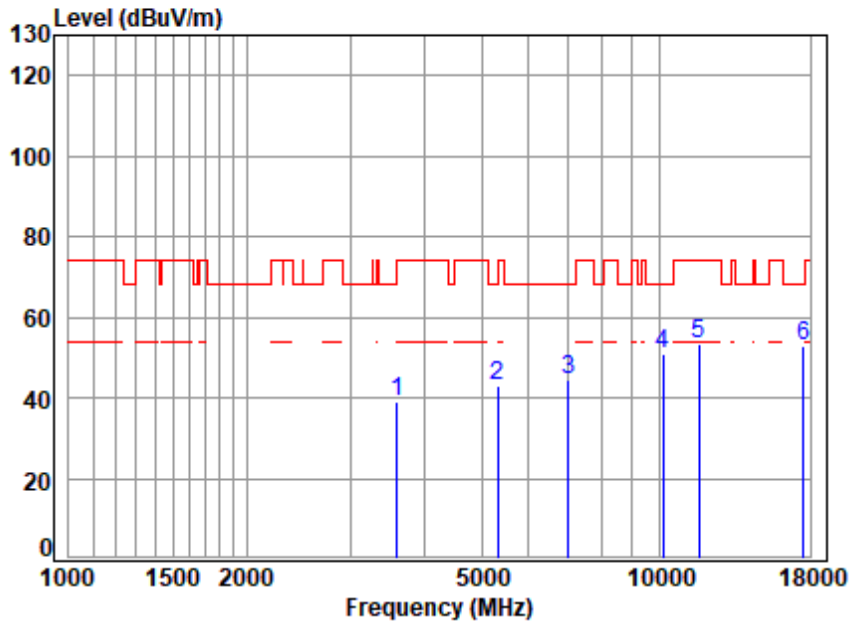
Mode : 5844.5 TX RSE

Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2101.87	4.79	28.78	38.17	39.05	34.45	68.20	-33.75 Peak
2	3546.58	6.28	31.60	36.12	36.32	38.08	68.20	-30.12 Peak
3	6835.28	8.80	35.44	35.47	35.38	44.15	68.20	-24.05 Peak
4	10010.42	12.63	37.31	37.38	37.23	49.79	68.20	-18.41 Peak
5	11689.00	13.03	37.88	37.64	40.26	53.53	74.00	-20.47 Peak
6	17533.50	14.88	43.47	37.59	32.48	53.24	68.20	-14.96 Peak



Test Mode: 21; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5844.5 TX RSE
Note : 10M

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	3598.20	6.34	32.08	36.11	36.49	38.80	68.20	-29.40	Peak
2	5315.54	7.68	34.26	35.23	36.33	43.04	68.20	-25.16	Peak
3	7015.42	8.94	35.70	35.59	35.60	44.65	68.20	-23.55	Peak
4	10126.82	12.67	37.37	37.43	38.48	51.09	68.20	-17.11	Peak
5	11689.00	13.03	37.88	37.64	39.89	53.16	74.00	-20.84	Peak
6	17533.50	14.88	43.47	37.59	32.33	53.09	68.20	-15.11	Peak



7.10 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 52.9 % RH

Atmospheric Pressure: 1000 mbar



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

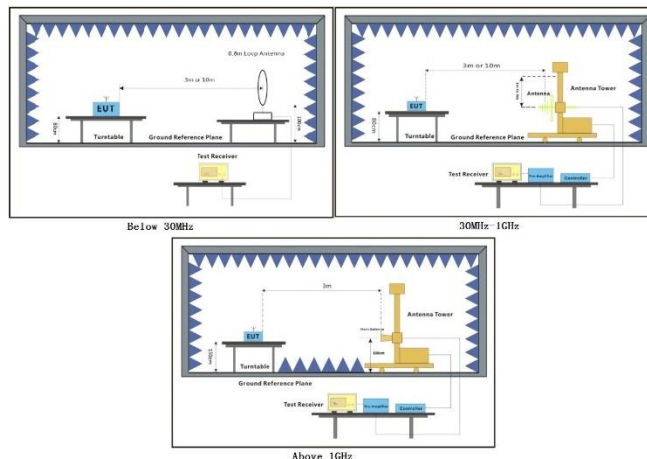
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (Shenzhen EMC Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	10	TX mode(5.1G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	11	Charge + TX mode(5.1G SDR 10MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	12	TX mode(5.1G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	13	Charge + TX mode(5.1G SDR 20MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	14	TX mode(5.1G SDR 40MHz)_Keep the EUT in continuously transmitting mode.
Final test	15	Charge + TX mode(5.1G SDR 40MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	16	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode.
Final test	17	Charge + TX mode(5.8G SDR 1.4MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	18	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode.
Final test	19	Charge + TX mode(5.8G SDR 3MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	20	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	21	Charge + TX mode(5.8G SDR 10MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	22	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	23	Charge + TX mode(5.8G SDR 20MHz)_Keep the EUT in charging and continuously transmitting mode.
Pre-scan	24	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode.
Final test	25	Charge + TX mode(5.8G SDR 40MHz)_Keep the EUT in charging and continuously transmitting mode.

7.10.3 Test Setup Diagram



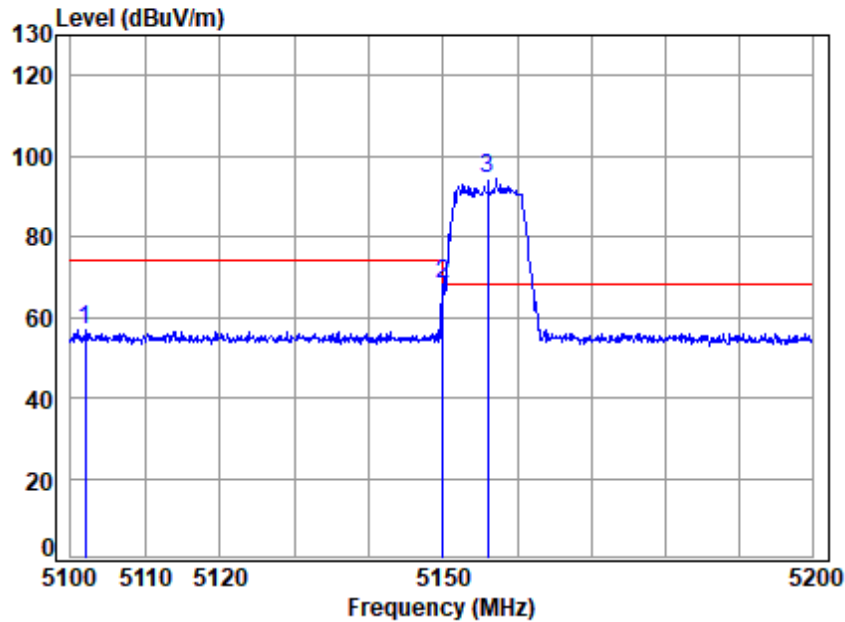
7.10.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Test Mode: 11; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03204AT/03205AT

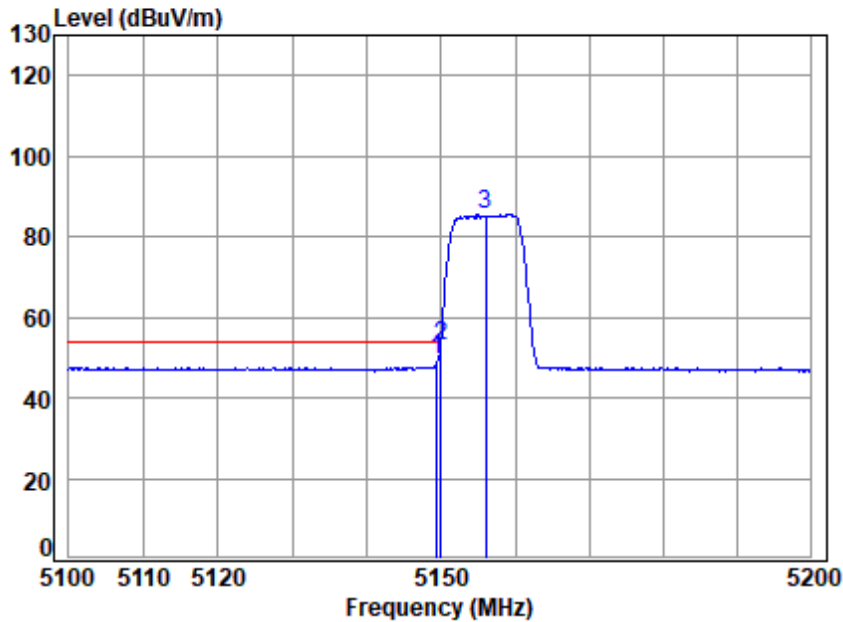
Mode : 5156 Band edge

Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5101.88	7.51	34.00	35.34	50.79	56.96	74.00	-17.04 peak
2	5149.98	7.55	33.90	35.31	61.88	68.02	74.00	-5.98 Peak
3	5156.00	7.55	33.91	35.31	88.37	94.52	68.20	26.32 peak



Test Mode: 11; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5156 Band edge
Note : 10M

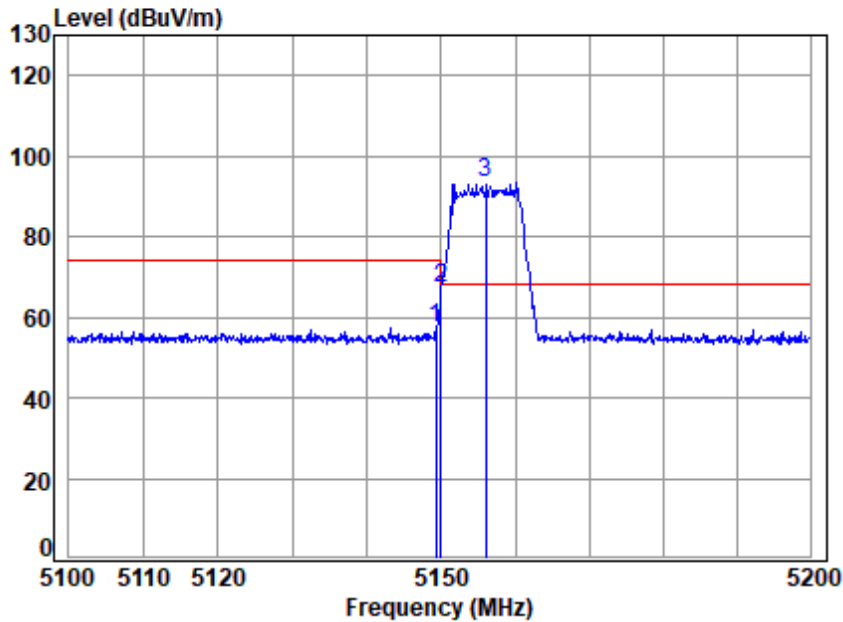
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.46	7.55	33.90	35.31	43.24	49.38	54.00	-4.62 Average
2	5149.96	7.55	33.90	35.31	46.77	52.91	54.00	-1.09 Average
3	5156.00	7.55	33.91	35.31	79.44	85.59	-----	----- Average



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 11; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03204AT/03205AT

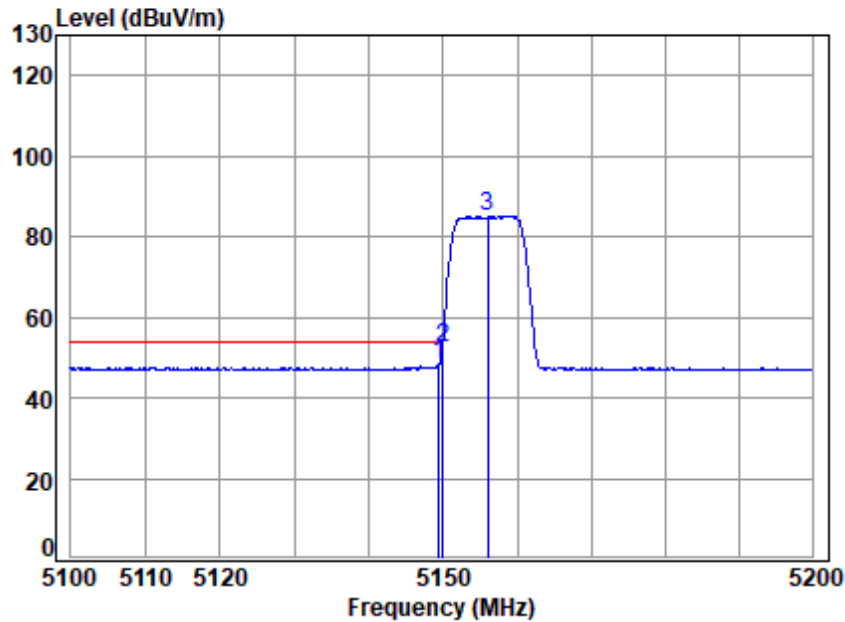
Mode : 5156 Band edge

Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.26	7.55	33.90	35.31	51.08	57.22	74.00	-16.78 Peak
2	5149.98	7.55	33.90	35.31	61.24	67.38	74.00	-6.62 Peak
3	5156.00	7.55	33.91	35.31	87.32	93.47	68.20	25.27 Peak



Test Mode: 11; Polarity: Vertical; Modulation: OFDM; Channel: Low

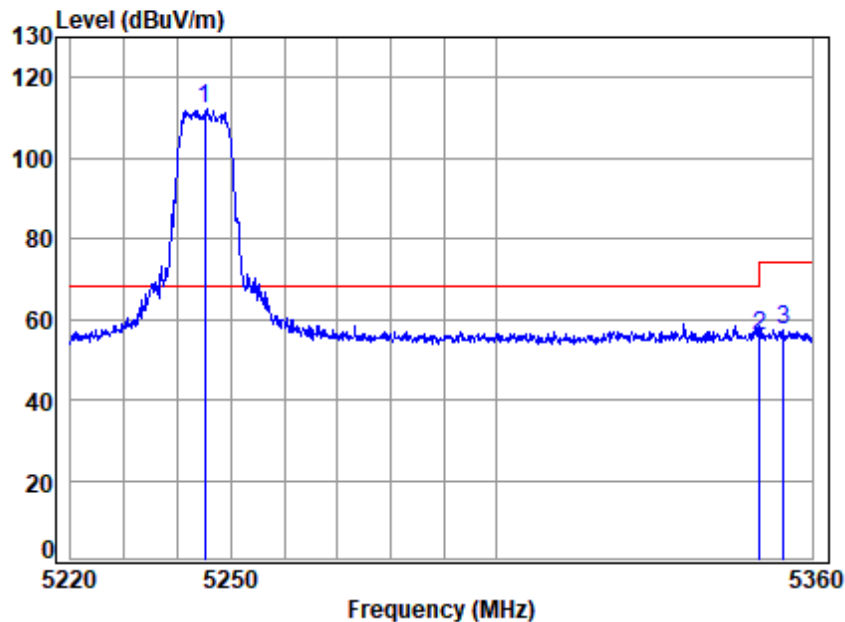


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5156 Band edge
Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.46	7.55	33.90	35.31	42.46	48.60	54.00	-5.40 Average
2	5149.98	7.55	33.90	35.31	46.19	52.33	54.00	-1.67 Average
3	5156.00	7.55	33.91	35.31	78.97	85.12	-----	----- Average



Test Mode: 11; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03204AT/03205AT

Mode : 5245 Band edge

Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5245.00	7.62	34.09	35.26	105.68	112.13	68.20	43.93 peak
2	5350.02	7.70	34.40	35.21	48.75	55.64	74.00	-18.36 peak
3	5354.61	7.71	34.42	35.21	50.24	57.16	74.00	-16.84 peak



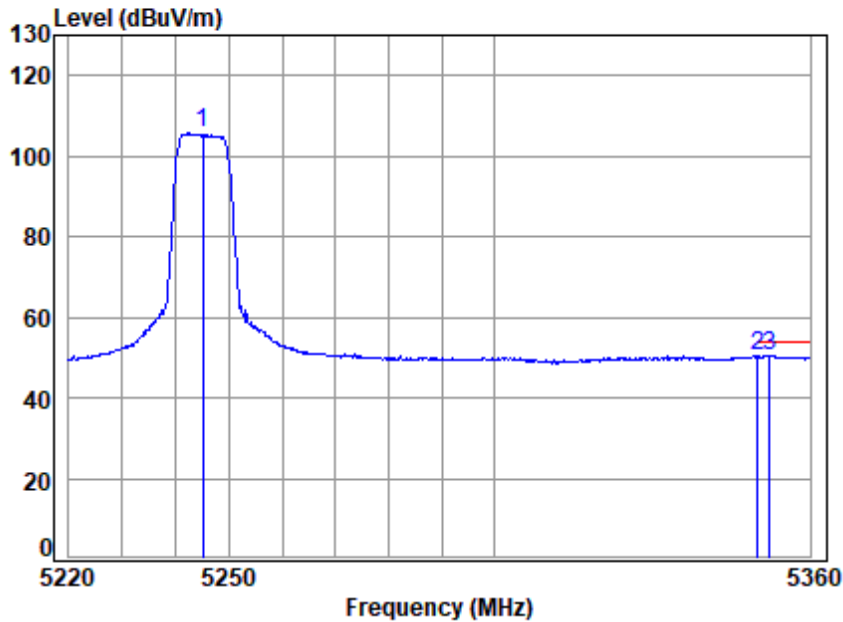
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 11; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5245 Band edge
Note : 10M

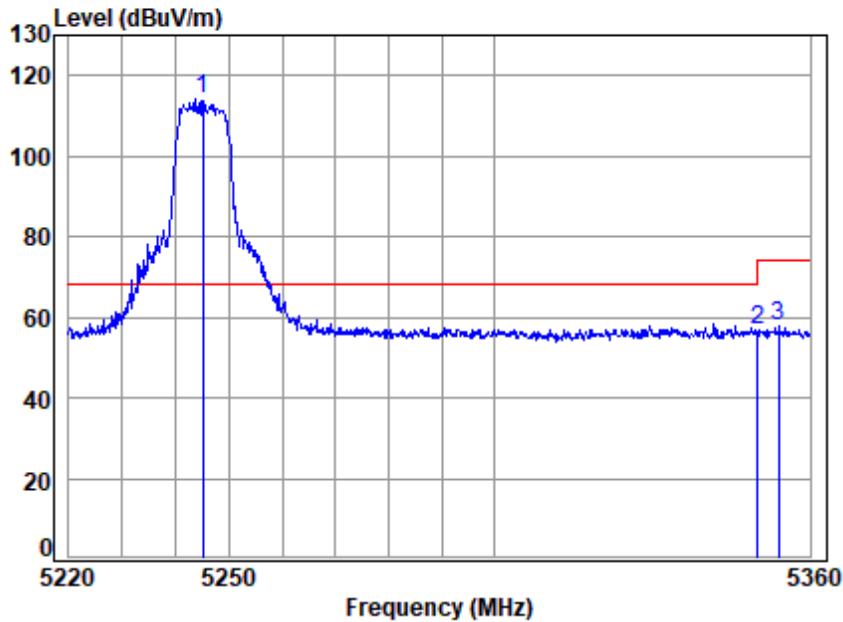
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5245.00	7.62	34.09	35.26	99.15	105.60	-----	Average
2	5350.02	7.70	34.40	35.21	43.52	50.41	54.00	-3.59 Average
3	5352.35	7.71	34.41	35.21	43.70	50.61	54.00	-3.39 Average



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 11; Polarity: Vertical; Modulation: OFDM; Channel: High

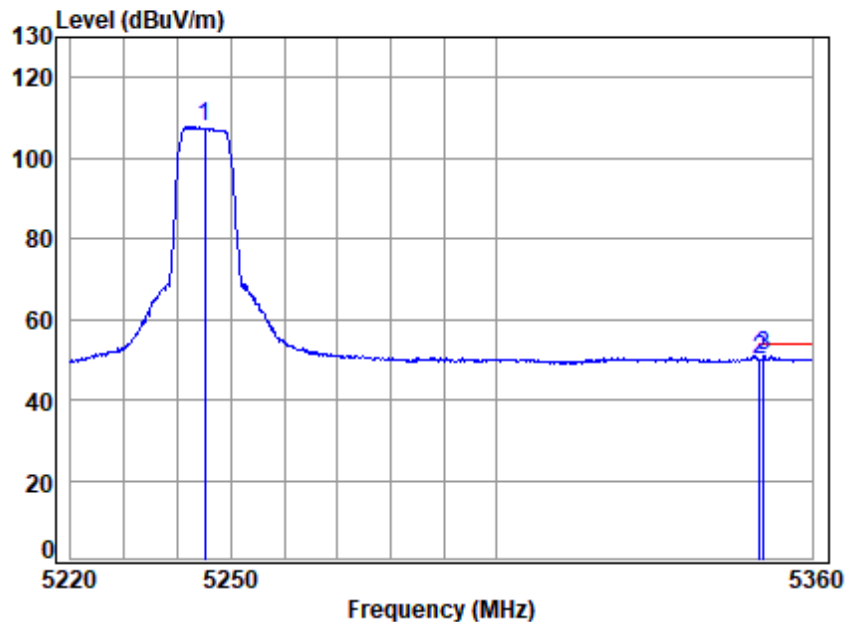


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5245 Band edge
Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5245.00	7.62	34.09	35.26	107.74	114.19	68.20	45.99 Peak
2	5350.02	7.70	34.40	35.21	50.07	56.96	74.00	-17.04 Peak
3	5354.05	7.71	34.42	35.21	50.84	57.76	74.00	-16.24 Peak



Test Mode: 11; Polarity: Vertical; Modulation: OFDM; Channel: High

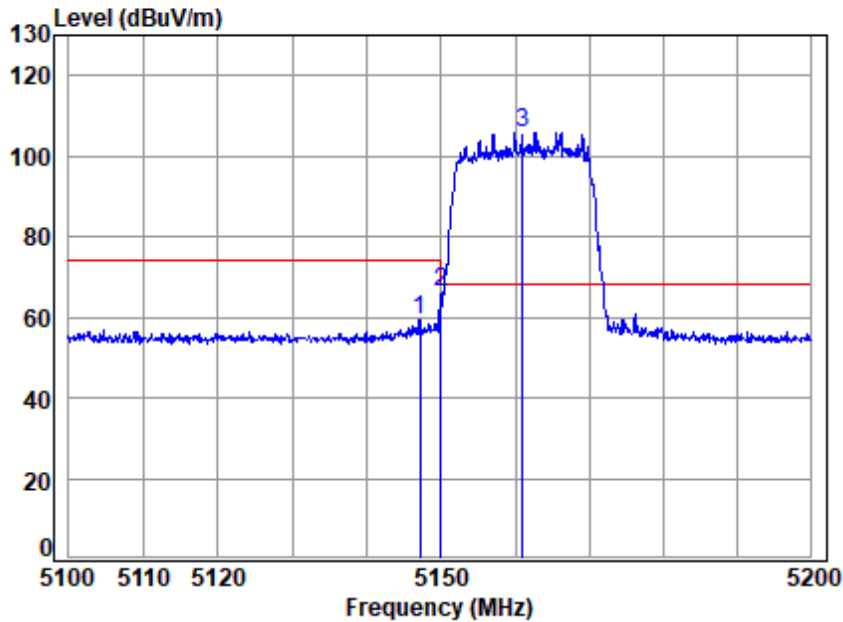


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5245 Band edge
Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5245.00	7.62	34.09	35.26	101.25	107.70	-----	Average
2	5350.02	7.70	34.40	35.21	43.15	50.04	54.00	-3.96 Average
3	5350.79	7.71	34.40	35.21	44.03	50.93	54.00	-3.07 Average



Test Mode: 13; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03204AT/03205AT

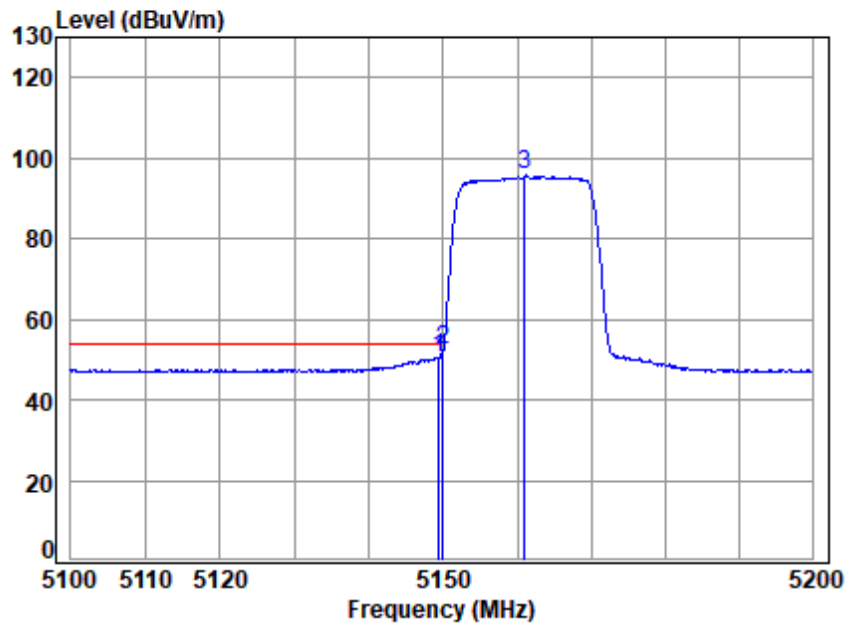
Mode : 5161 Band edge

Note : 20M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.16	7.55	33.91	35.31	53.37	59.52	74.00	-14.48 peak
2	5149.98	7.55	33.90	35.31	60.12	66.26	74.00	-7.74 peak
3	5161.00	7.56	33.92	35.30	99.83	106.01	68.20	37.81 peak



Test Mode: 13; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03204AT/03205AT

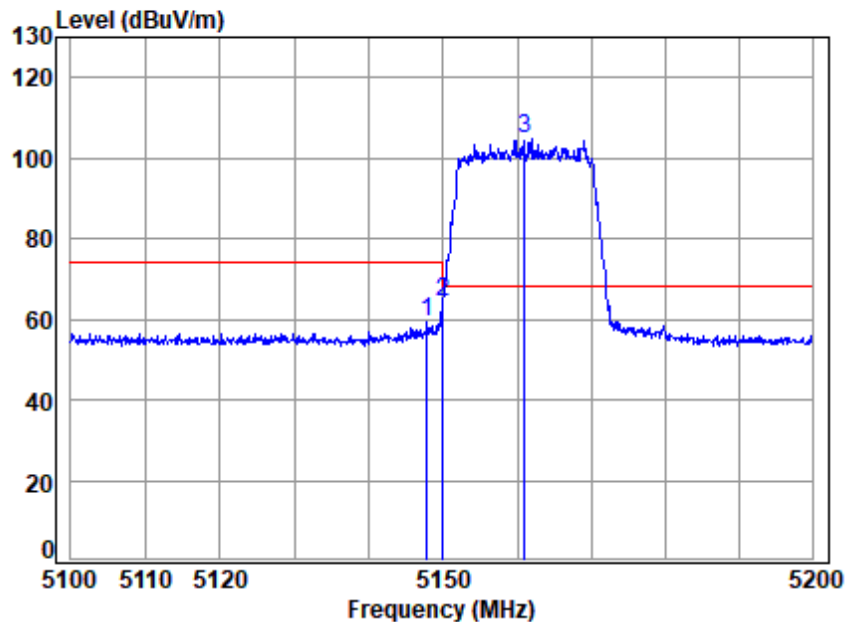
Mode : 5161 Band edge

Note : 20M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.46	7.55	33.90	35.31	44.32	50.46	54.00	-3.54 Average
2	5149.98	7.55	33.90	35.31	46.17	52.31	54.00	-1.69 Average
3	5161.00	7.56	33.92	35.30	89.49	95.67	-----	----- Average



Test Mode: 13; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03204AT/03205AT

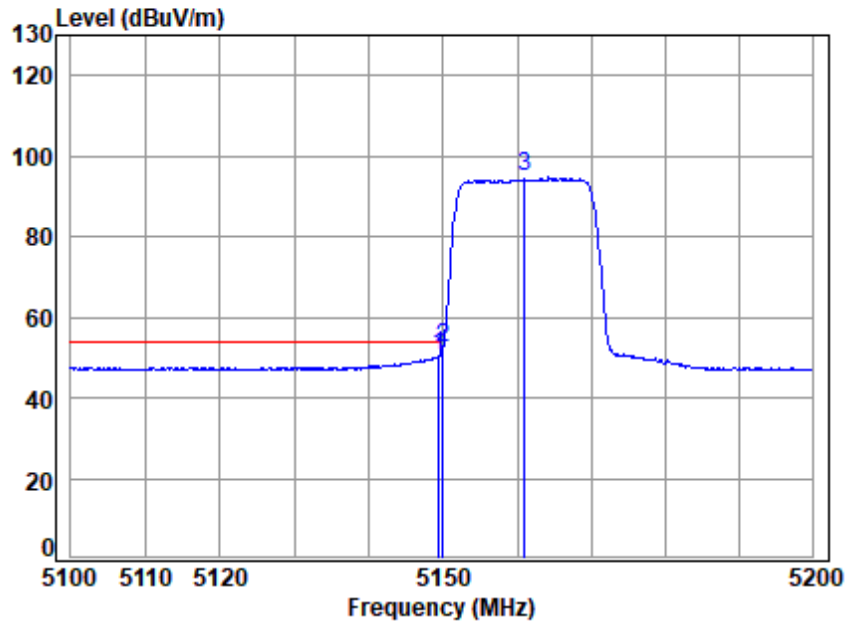
Mode : 5161 Band edge

Note : 20M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5147.86	7.55	33.90	35.31	53.09	59.23	74.00	-14.77 Peak
2	5149.98	7.55	33.90	35.31	58.01	64.15	74.00	-9.85 Peak
3	5161.00	7.56	33.92	35.30	98.37	104.55	68.20	36.35 Peak



Test Mode: 13; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5161 Band edge
Note : 20M

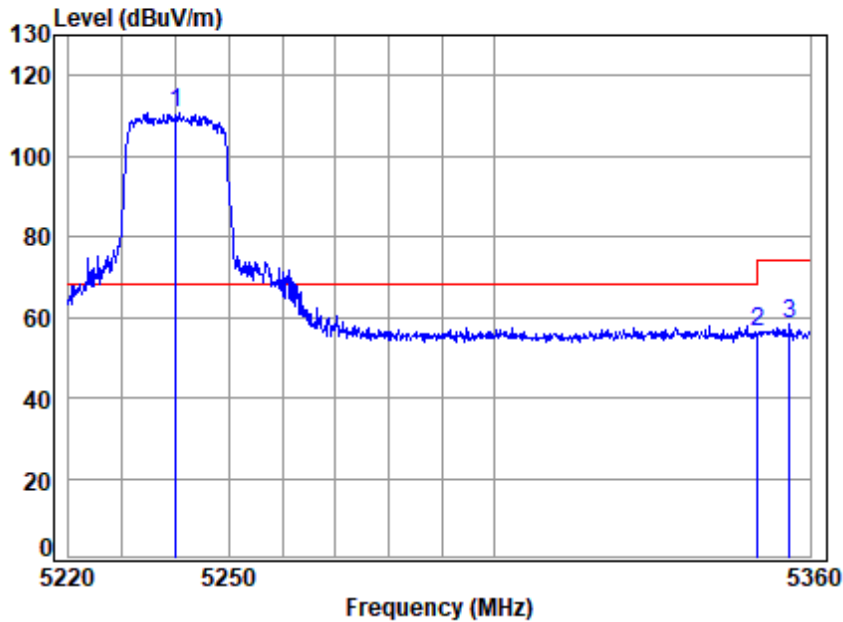
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.46	7.55	33.90	35.31	44.09	50.23	54.00	-3.77 Average
2	5149.98	7.55	33.90	35.31	46.10	52.24	54.00	-1.76 Average
3	5161.00	7.56	33.92	35.30	88.58	94.76	-----	----- Average



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 13; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5240 Band edge
Note : 20M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.00	7.62	34.08	35.26	104.16	110.60	68.20	42.40 peak
2	5350.02	7.70	34.40	35.21	49.23	56.12	74.00	-17.88 peak
3	5356.03	7.71	34.42	35.21	51.42	58.34	74.00	-15.66 peak



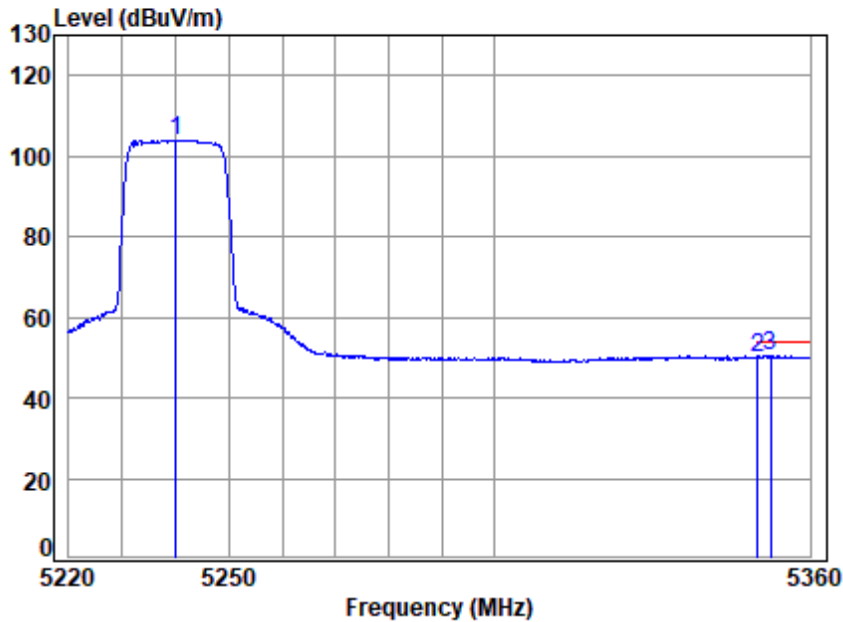
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 58 of 287

Test Mode: 13; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5240 Band edge
Note : 20M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.00	7.62	34.08	35.26	97.55	103.99	-----	Average
2	5350.02	7.70	34.40	35.21	43.25	50.14	54.00	-3.86 Average
3	5352.49	7.71	34.41	35.21	43.58	50.49	54.00	-3.51 Average



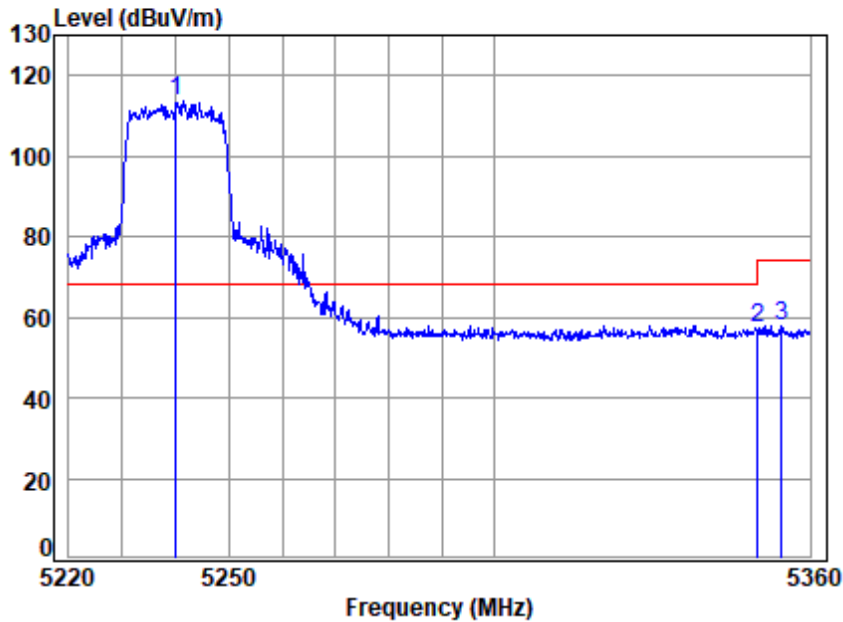
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 13; Polarity: Vertical; Modulation: OFDM; Channel: High

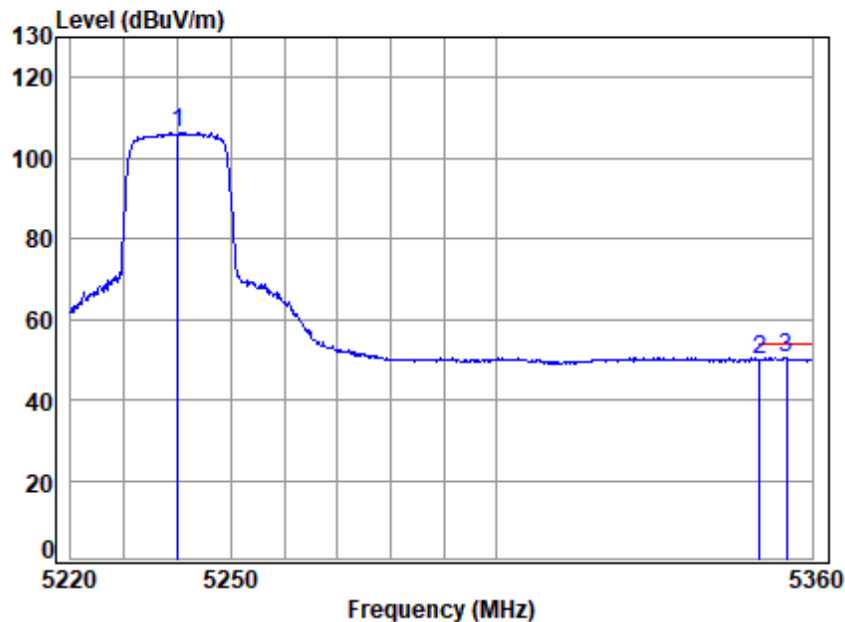


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5240 Band edge
Note : 20M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.00	7.62	34.08	35.26	107.40	113.84	68.20	45.64 Peak
2	5350.02	7.70	34.40	35.21	50.22	57.11	74.00	-16.89 Peak
3	5354.61	7.71	34.42	35.21	50.99	57.91	74.00	-16.09 Peak



Test Mode: 13; Polarity: Vertical; Modulation: OFDM; Channel: High

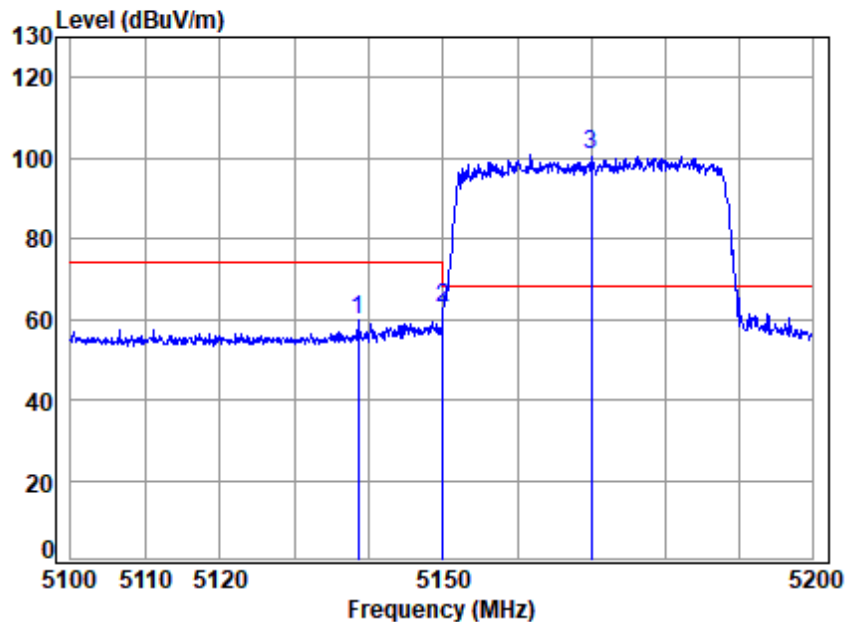


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5240 Band edge
Note : 20M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5240.00	7.62	34.08	35.26	100.07	106.51	-----	Average
2	5350.02	7.70	34.40	35.21	43.20	50.09	54.00	-3.91 Average
3	5355.04	7.71	34.42	35.21	43.65	50.57	54.00	-3.43 Average



Test Mode: 15; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03204AT/03205AT

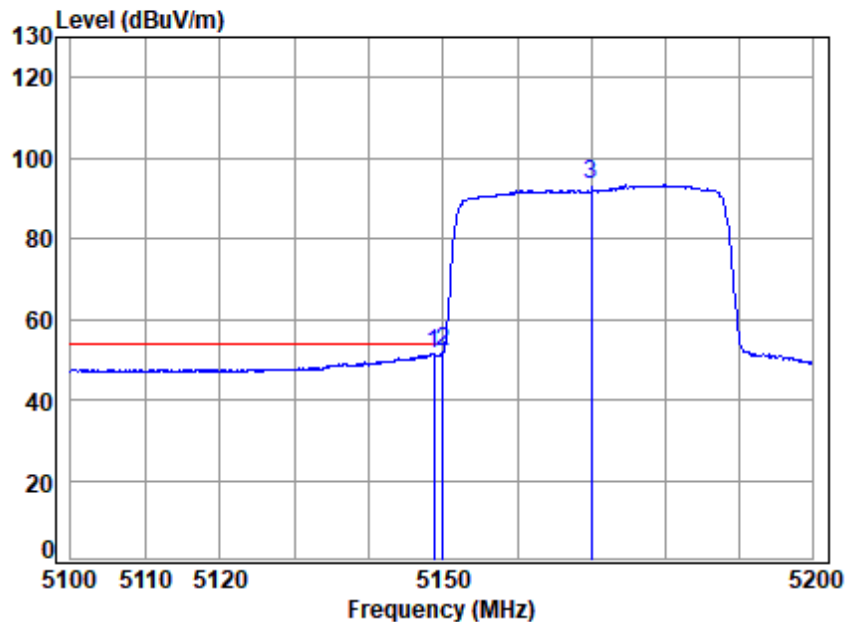
Mode : 5170 Band edge

Note : 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5138.57	7.54	33.92	35.32	53.89	60.03	74.00	-13.97 peak
2	5149.98	7.55	33.90	35.31	56.68	62.82	74.00	-11.18 Peak
3	5170.00	7.57	33.94	35.30	94.77	100.98	68.20	32.78 peak



Test Mode: 15; Polarity: Horizontal; Modulation: OFDM; Channel: Low

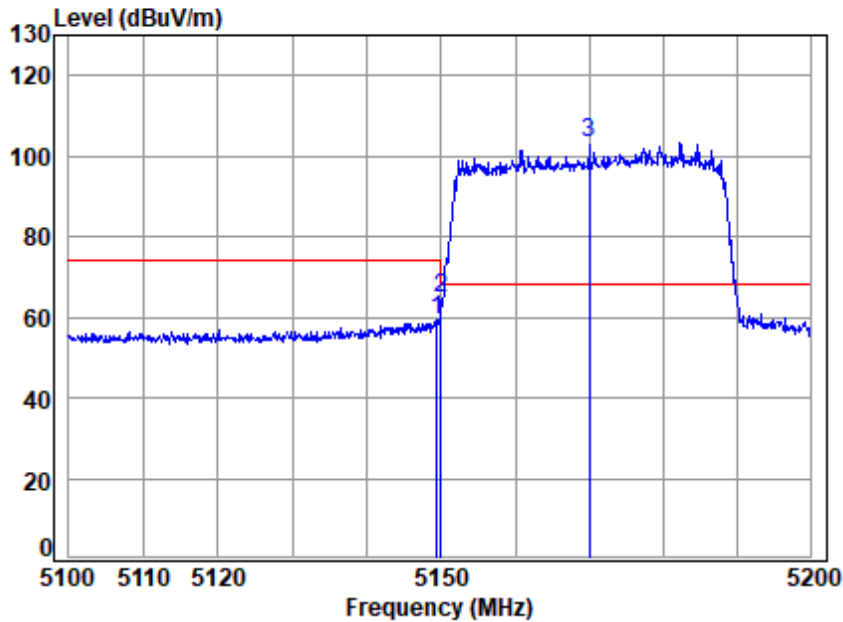


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5170 Band edge
Note : 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.76	7.55	33.90	35.31	45.29	51.43	54.00	-2.57 Average
2	5149.98	7.55	33.90	35.31	45.98	52.12	54.00	-1.88 Average
3	5170.00	7.57	33.94	35.30	87.07	93.28	-----	----- Average



Test Mode: 15; Polarity: Vertical; Modulation: OFDM; Channel: Low



Site : chamber

Condition: 3m VERTICAL

Job No : 03204AT/03205AT

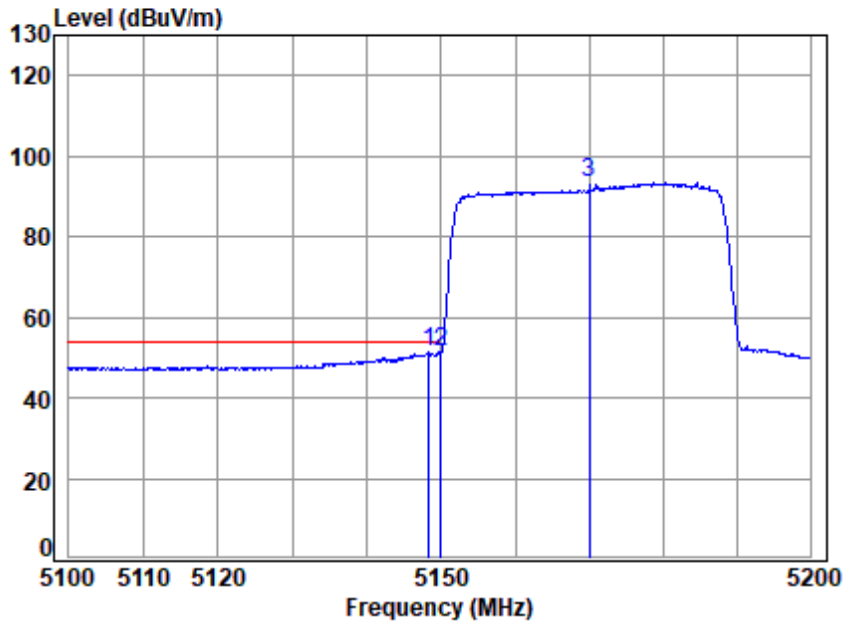
Mode : 5170 Band edge

Note : 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.46	7.55	33.90	35.31	53.15	59.29	74.00	-14.71 Peak
2	5149.98	7.55	33.90	35.31	58.65	64.79	74.00	-9.21 Peak
3	5170.00	7.57	33.94	35.30	96.87	103.08	68.20	34.88 Peak



Test Mode: 15; Polarity: Vertical; Modulation: OFDM; Channel: Low

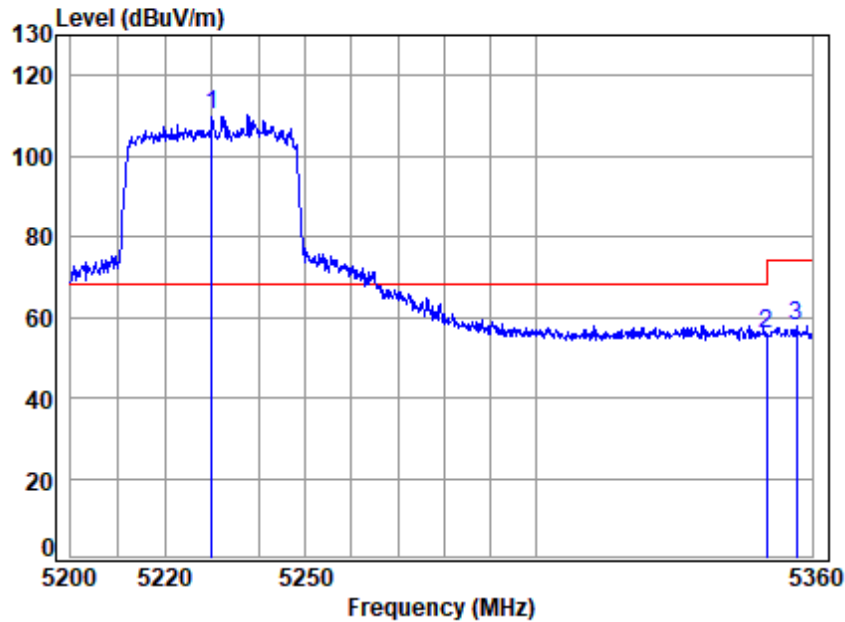


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5170 Band edge
Note : 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5148.36	7.55	33.90	35.31	45.06	51.20	54.00	-2.80 Average
2	5149.98	7.55	33.90	35.31	45.27	51.41	54.00	-2.59 Average
3	5170.00	7.57	33.94	35.30	87.12	93.33	-----	----- Average



Test Mode: 15; Polarity: Horizontal; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5230 Band edge
Note : 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.00	7.61	34.06	35.27	103.97	110.37	68.20	42.17 peak
2	5350.02	7.70	34.40	35.21	49.02	55.91	74.00	-18.09 peak
3	5356.59	7.71	34.43	35.20	50.95	57.89	74.00	-16.11 peak



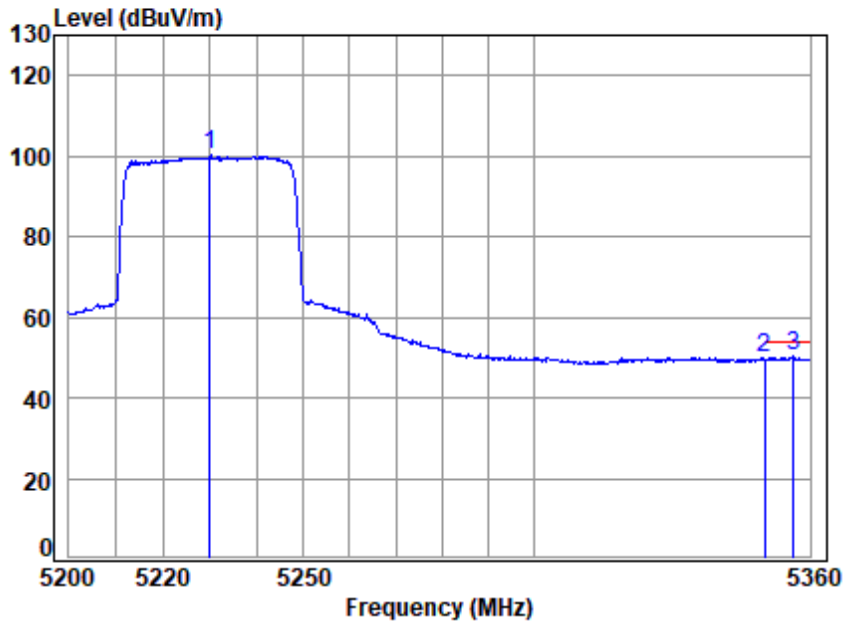
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 15; Polarity: Horizontal; Modulation: OFDM; Channel: High

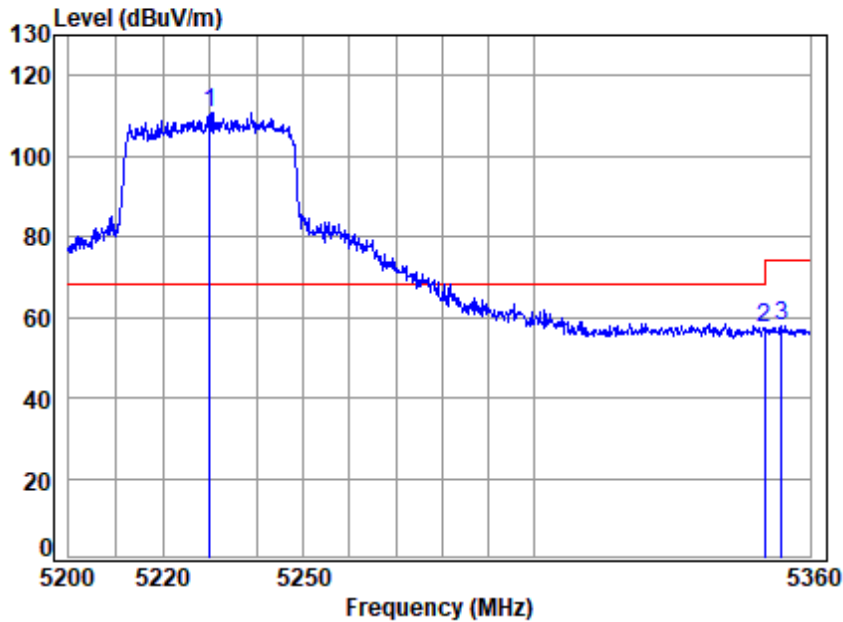


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5230 Band edge
Note : 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.00	7.61	34.06	35.27	93.89	100.29	-----	Average
2	5350.02	7.70	34.40	35.21	42.91	49.80	54.00	-4.20 Average
3	5356.43	7.71	34.43	35.20	43.27	50.21	54.00	-3.79 Average



Test Mode: 15; Polarity: Vertical; Modulation: OFDM; Channel: High

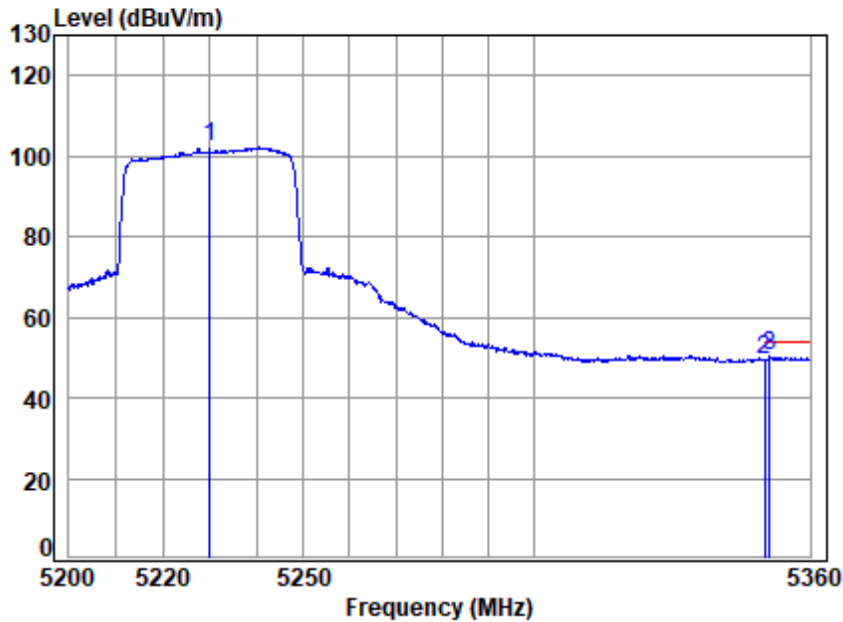


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5230 Band edge
Note : 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.00	7.61	34.06	35.27	104.44	110.84	68.20	42.64 Peak
2	5350.02	7.70	34.40	35.21	50.60	57.49	74.00	-16.51 Peak
3	5353.67	7.71	34.41	35.21	51.07	57.98	74.00	-16.02 Peak



Test Mode: 15; Polarity: Vertical; Modulation: OFDM; Channel: High

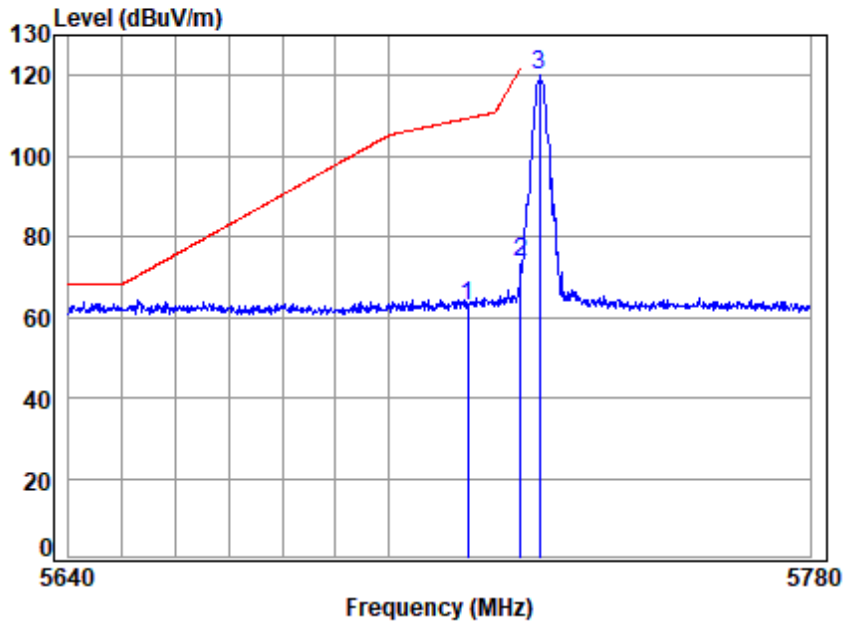


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5230 Band edge
Note : 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5230.00	7.61	34.06	35.27	96.07	102.47	-----	Average
2	5350.02	7.70	34.40	35.21	42.68	49.57	54.00	-4.43 Average
3	5351.24	7.71	34.40	35.21	43.33	50.23	54.00	-3.77 Average



Test Mode: 17; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5728.5 Band edge
Note : 1.4M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.97	34.27	35.03	55.69	62.90	109.40	-46.50 peak
2	5725.00	7.98	34.25	35.03	66.57	73.77	122.20	-48.43 peak
3	5728.50	7.98	34.24	35.02	112.99	120.19	-----	----- peak



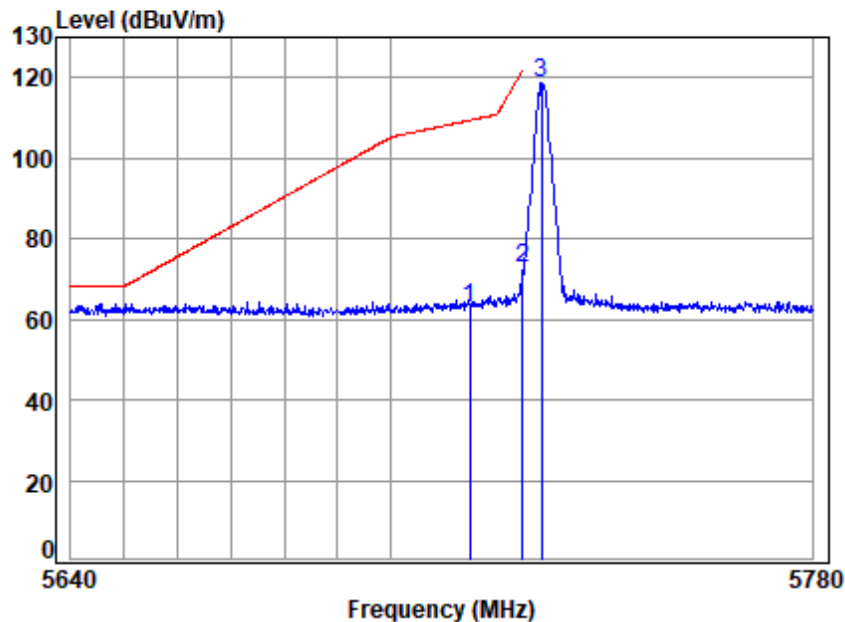
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 17; Polarity: Vertical; Modulation: OFDM; Channel: Low

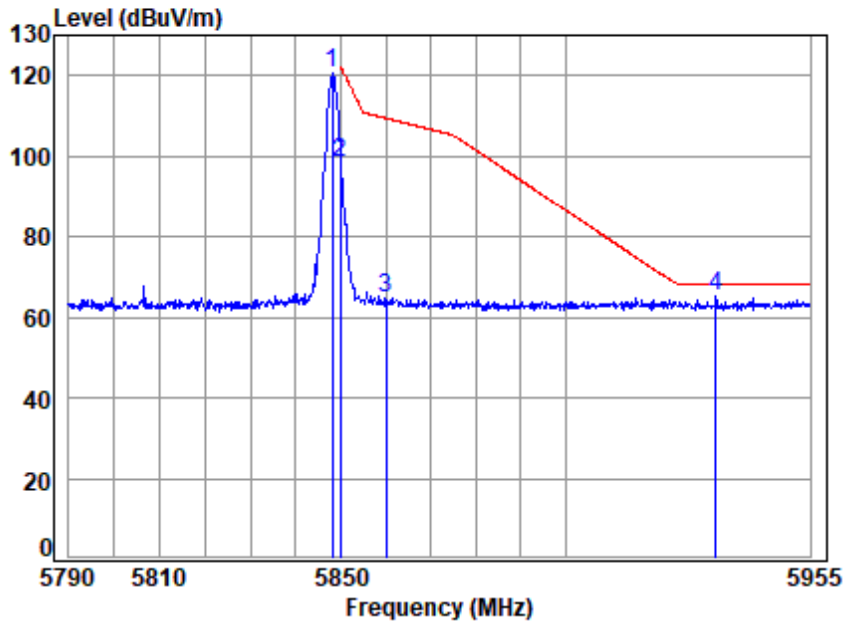


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5728.5 Band edge
Note : 1.4M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.97	34.27	35.03	55.79	63.00	109.40	-46.40 peak
2	5725.00	7.98	34.25	35.03	65.44	72.64	122.20	-49.56 peak
3	5728.50	7.98	34.24	35.02	111.64	118.84	-----	----- peak



Test Mode: 17; Polarity: Horizontal; Modulation: OFDM; Channel: High

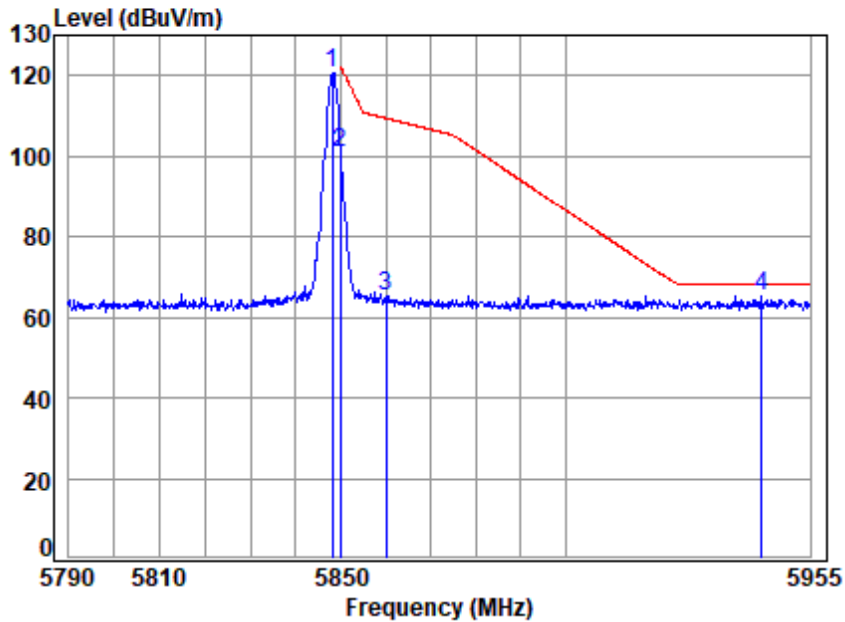


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5848.12 Band edge
Note : 1.4M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5848.12	8.07	34.40	34.97	113.08	120.58	-----	----- peak
2	5850.00	8.07	34.40	34.97	91.04	98.54	122.20	-23.66 peak
3	5860.00	8.07	34.44	34.96	57.07	64.62	109.40	-44.78 peak
4	5933.79	8.12	34.67	34.93	57.31	65.17	68.20	-3.03 peak



Test Mode: 17; Polarity: Vertical; Modulation: OFDM; Channel: High

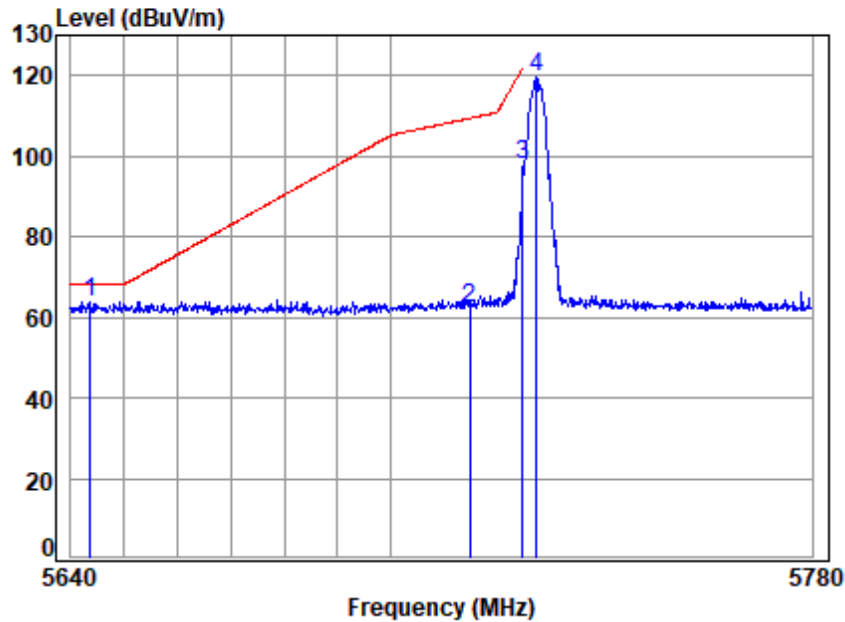


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5848.12 Band edge
Note : 1.4M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5848.12	8.07	34.40	34.97	113.29	120.79	-----	----- peak
2	5850.00	8.07	34.40	34.97	93.16	100.66	122.20	-21.54 peak
3	5860.00	8.07	34.44	34.96	57.76	65.31	109.40	-44.09 peak
4	5944.13	8.13	34.69	34.93	57.28	65.17	68.20	-3.03 peak



Test Mode: 19; Polarity: Horizontal; Modulation: OFDM; Channel: Low

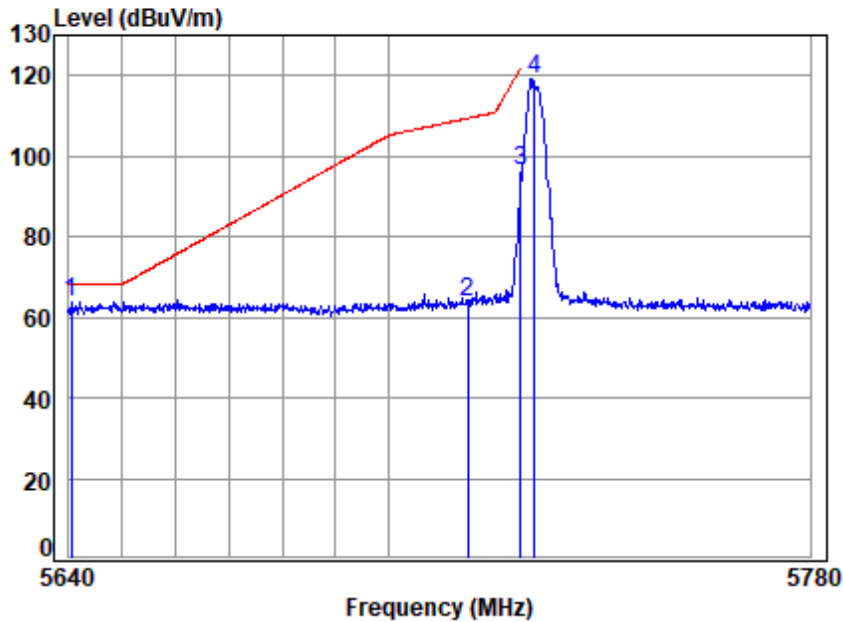


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5727.5 Band edge
Note : 3M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5643.60	7.92	34.44	35.06	56.47	63.77	68.20	-4.43 peak
2	5715.00	7.97	34.27	35.03	55.29	62.50	109.40	-46.90 peak
3	5725.00	7.98	34.25	35.03	90.50	97.70	122.20	-24.50 peak
4	5727.50	7.98	34.24	35.02	112.33	119.53	-----	----- peak



Test Mode: 19; Polarity: Vertical; Modulation: OFDM; Channel: Low

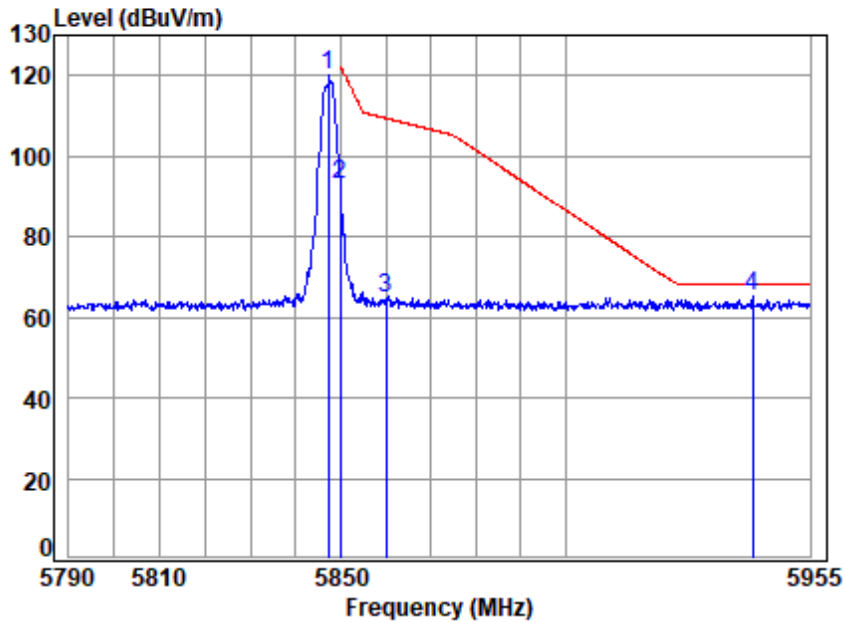


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5727.5 Band edge
Note : 3M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5640.55	7.92	34.46	35.07	56.51	63.82	68.20	-4.38 peak
2	5715.00	7.97	34.27	35.03	56.48	63.69	109.40	-45.71 peak
3	5725.00	7.98	34.25	35.03	89.34	96.54	122.20	-25.66 peak
4	5727.50	7.98	34.24	35.02	111.97	119.17	-----	----- peak



Test Mode: 19; Polarity: Horizontal; Modulation: OFDM; Channel: High

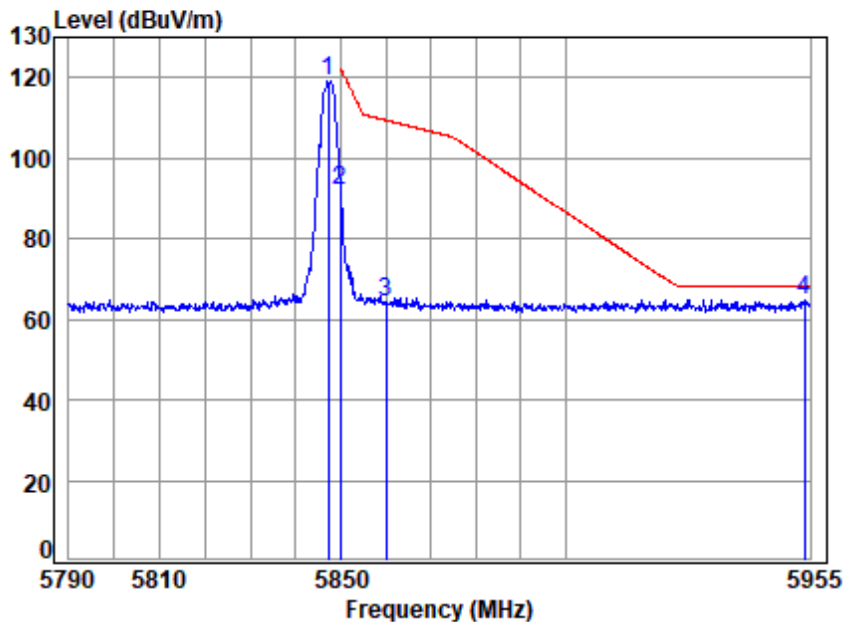


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5847.2 Band edge
Note : 3M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5847.20	8.07	34.39	34.97	112.55	120.04	-----	----- peak
2	5850.00	8.07	34.40	34.97	85.58	93.08	122.20	-29.12 peak
3	5860.00	8.07	34.44	34.96	56.96	64.51	109.40	-44.89 peak
4	5942.13	8.13	34.68	34.93	57.19	65.07	68.20	-3.13 peak



Test Mode: 19; Polarity: Vertical; Modulation: OFDM; Channel: High

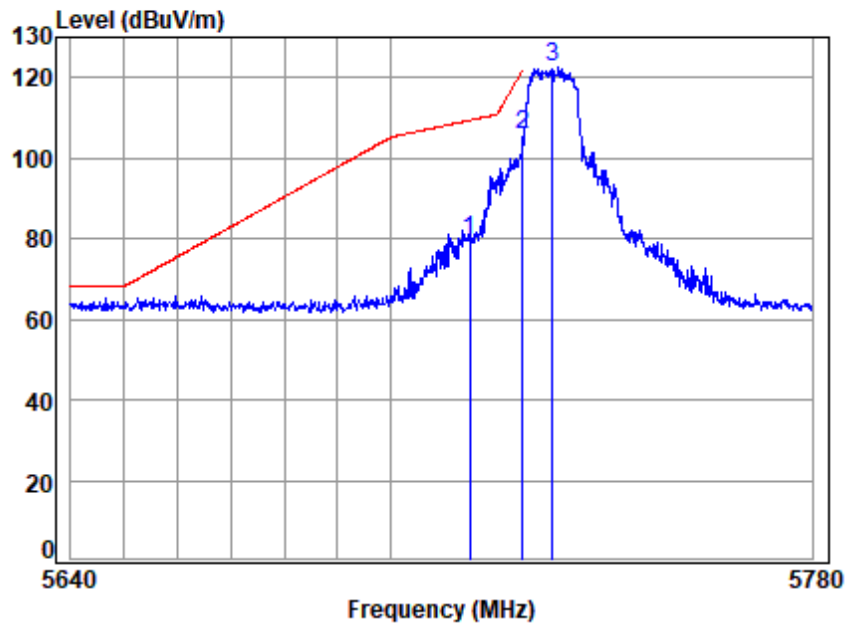


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5847.2 Band edge
Note : 3M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5847.20	8.07	34.39	34.97	111.77	119.26	-----	----- peak
2	5850.00	8.07	34.40	34.97	84.48	91.98	122.20	-30.22 peak
3	5860.00	8.07	34.44	34.96	56.75	64.30	109.40	-45.10 peak
4	5953.66	8.14	34.71	34.92	57.00	64.93	68.20	-3.27 peak



Test Mode: 21; Polarity: Horizontal; Modulation: OFDM; Channel: Low

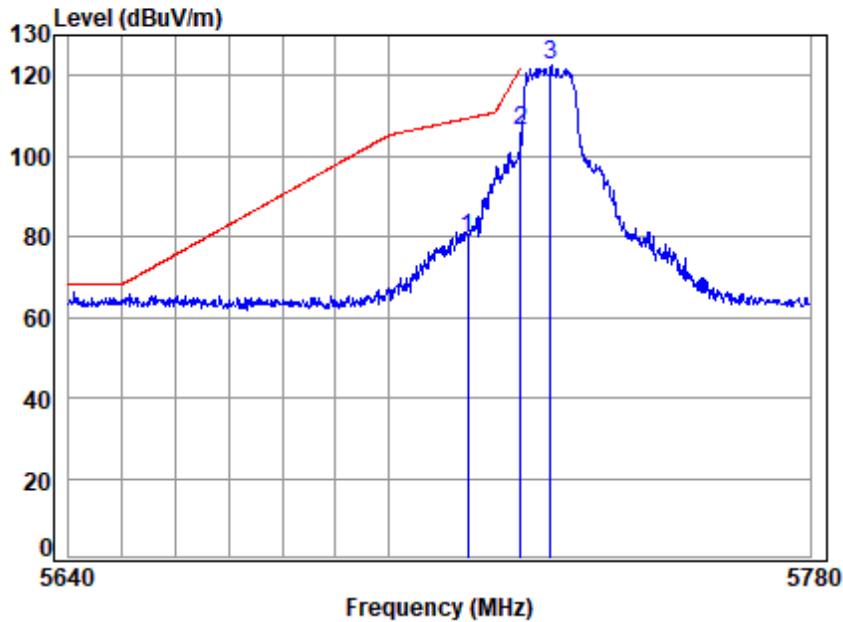


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5730.5 Band edge
Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.97	34.27	35.03	72.55	79.76	109.40	-29.64 peak
2	5725.00	7.98	34.25	35.03	98.54	105.74	122.20	-16.46 peak
3	5730.50	7.98	34.24	35.02	115.58	122.78	-----	----- peak



Test Mode: 21; Polarity: Vertical; Modulation: OFDM; Channel: Low

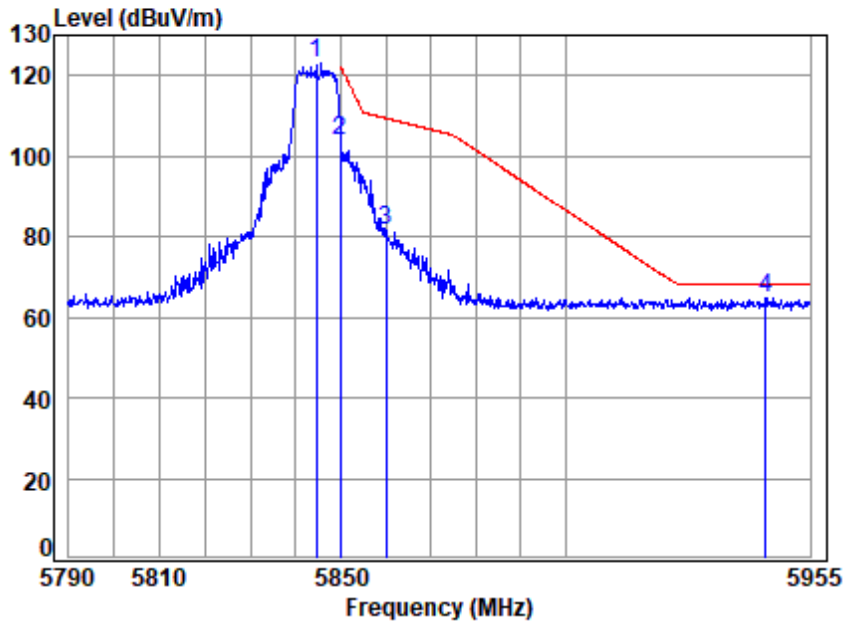


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5730.5 Band edge
Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.97	34.27	35.03	72.33	79.54	109.40	-29.86 peak
2	5725.00	7.98	34.25	35.03	99.24	106.44	122.20	-15.76 peak
3	5730.50	7.98	34.24	35.02	115.31	122.51	-----	----- peak



Test Mode: 21; Polarity: Horizontal; Modulation: OFDM; Channel: High

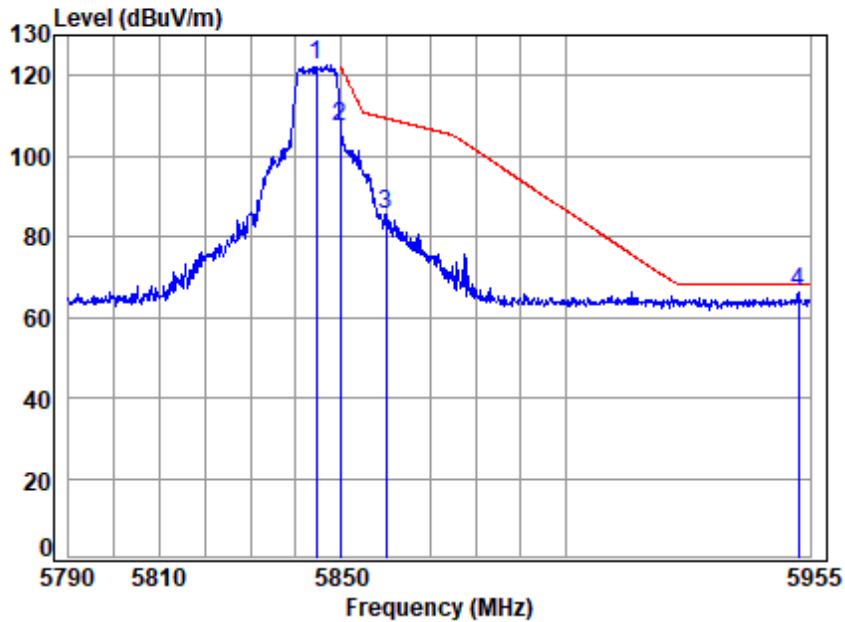


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5844.5 Band edge
Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5844.50	8.06	34.39	34.97	115.45	122.93	-----	----- peak
2	5850.00	8.07	34.40	34.97	96.22	103.72	122.20	-18.48 peak
3	5860.00	8.07	34.44	34.96	73.77	81.32	109.40	-28.08 peak
4	5944.97	8.13	34.69	34.92	56.75	64.65	68.20	-3.55 peak



Test Mode: 21; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5844.5 Band edge
Note : 10M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5844.50	8.06	34.39	34.97	115.11	122.59	-----	----- peak
2	5850.00	8.07	34.40	34.97	99.80	107.30	122.20	-14.90 peak
3	5860.00	8.07	34.44	34.96	78.19	85.74	109.40	-23.66 peak
4	5952.32	8.14	34.71	34.92	58.16	66.09	68.20	-2.11 peak



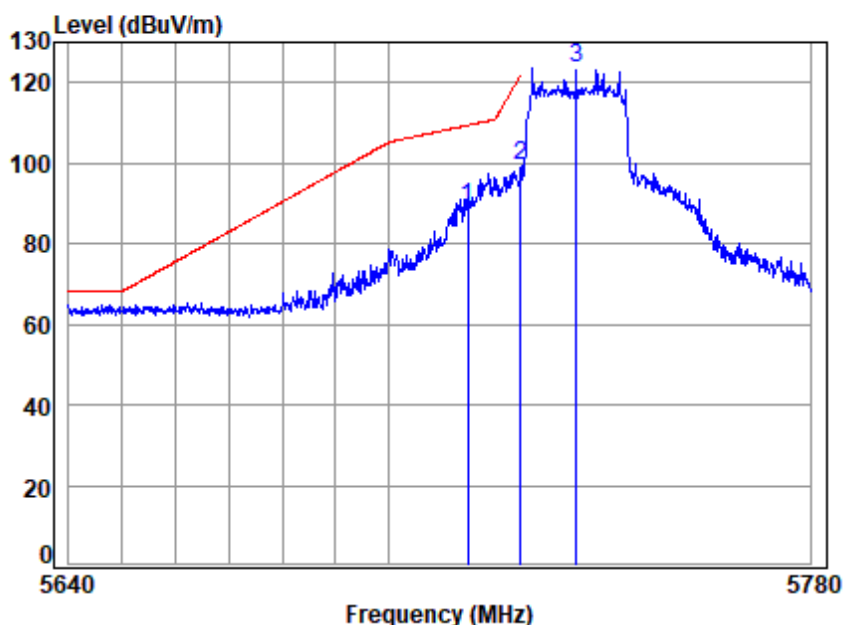
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 81 of 287

Test Mode: 23; Polarity: Horizontal; Modulation: OFDM; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5735.5 Band edge
Note : 20M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.97	34.27	35.03	81.87	89.08	109.40	-20.32 peak
2	5725.00	7.98	34.25	35.03	92.17	99.37	122.20	-22.83 peak
3	5735.50	7.99	34.23	35.02	116.40	123.60	-----	----- peak



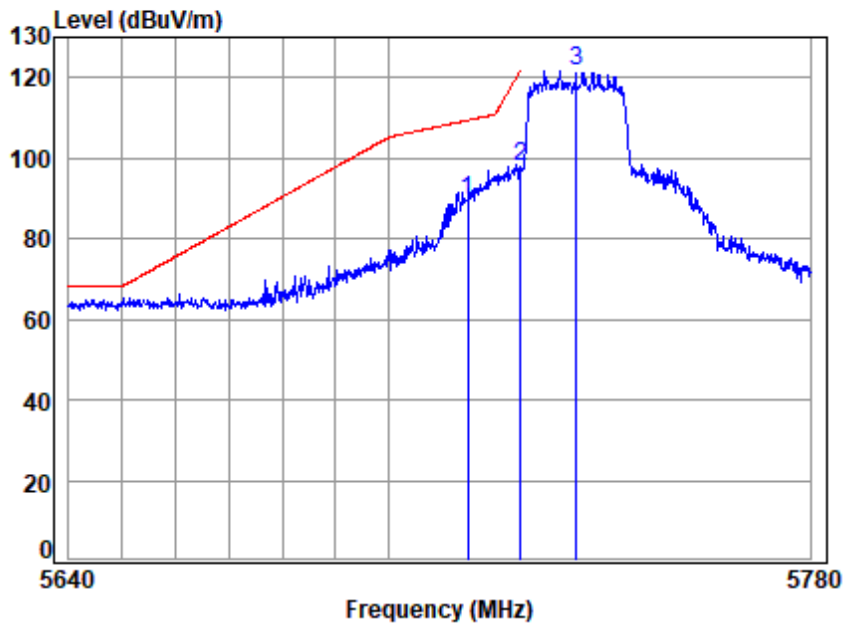
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 23; Polarity: Vertical; Modulation: OFDM; Channel: Low

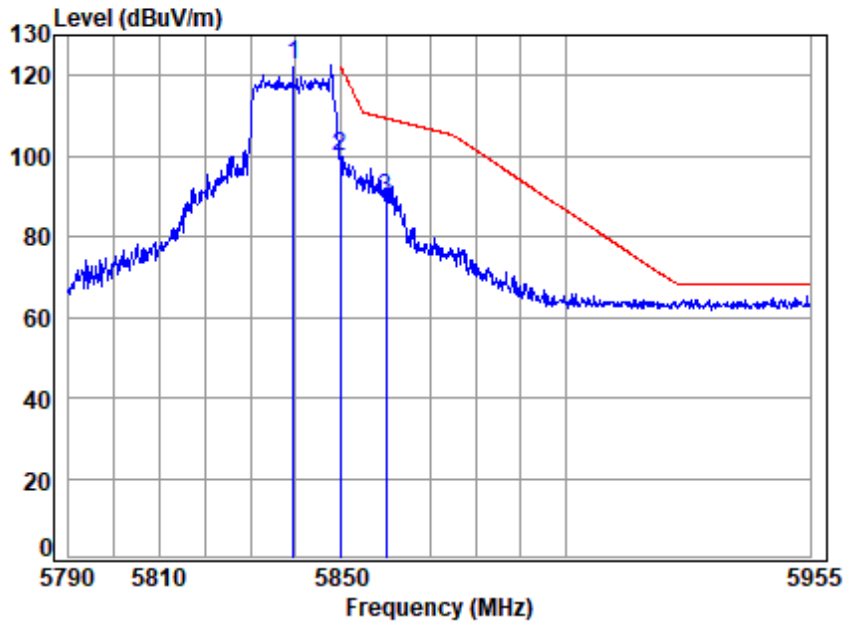


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5735.5 Band edge
Note : 20M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5715.00	7.97	34.27	35.03	82.29	89.50	109.40	-19.90 peak
2	5725.00	7.98	34.25	35.03	90.64	97.84	122.20	-24.36 peak
3	5735.50	7.99	34.23	35.02	114.46	121.66	-----	----- peak



Test Mode: 23; Polarity: Horizontal; Modulation: OFDM; Channel: High

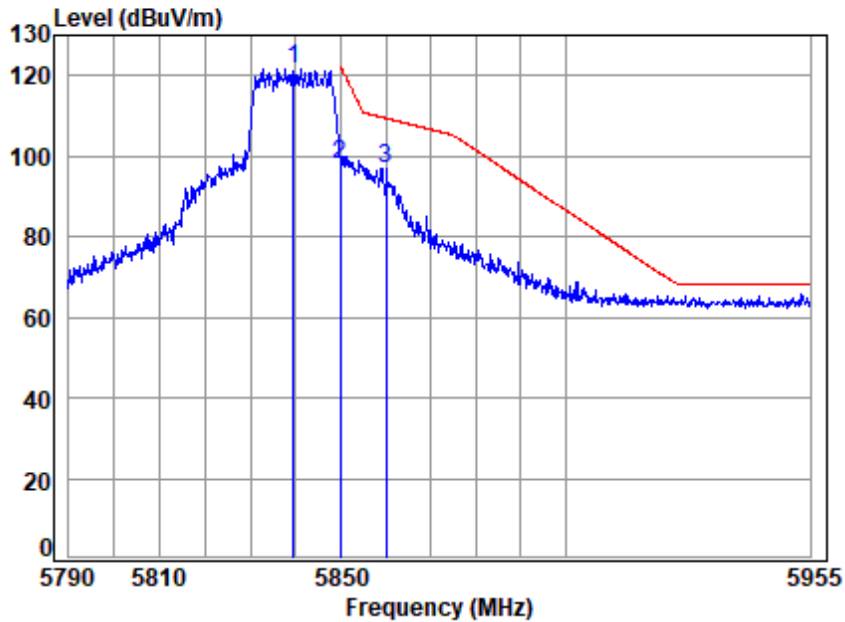


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5839.5 Band edge
Note : 20M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5839.50	8.06	34.38	34.97	114.90	122.37	-----	----- peak
2	5850.00	8.07	34.40	34.97	92.12	99.62	122.20	-22.58 peak
3	5860.00	8.07	34.44	34.96	81.75	89.30	109.40	-20.10 peak



Test Mode: 23; Polarity: Vertical; Modulation: OFDM; Channel: High

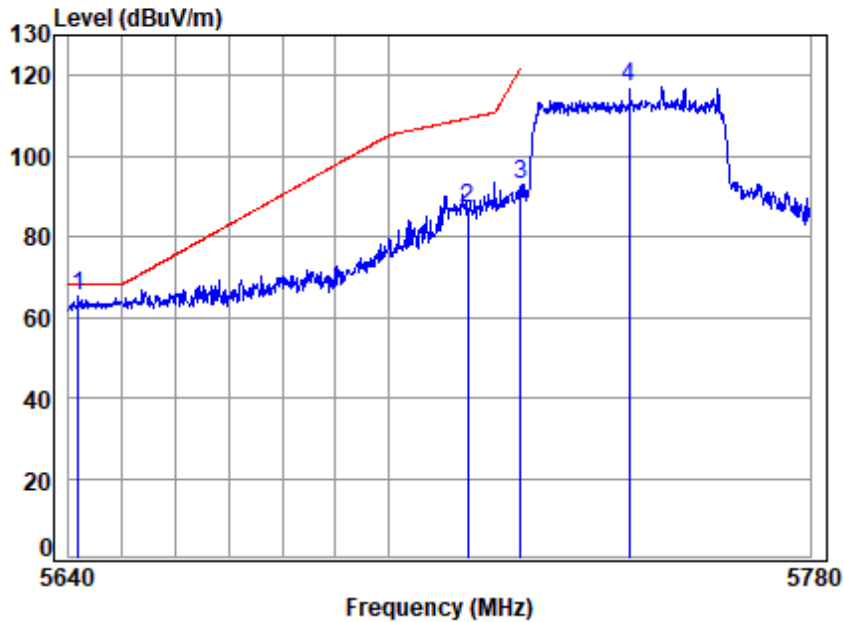


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5839.5 Band edge
Note : 20M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5839.50	8.06	34.38	34.97	114.22	121.69	-----	----- peak
2	5850.00	8.07	34.40	34.97	90.33	97.83	122.20	-24.37 peak
3	5860.00	8.07	34.44	34.96	89.32	96.87	109.40	-12.53 peak



Test Mode: 25; Polarity: Horizontal; Modulation: OFDM; Channel: Low

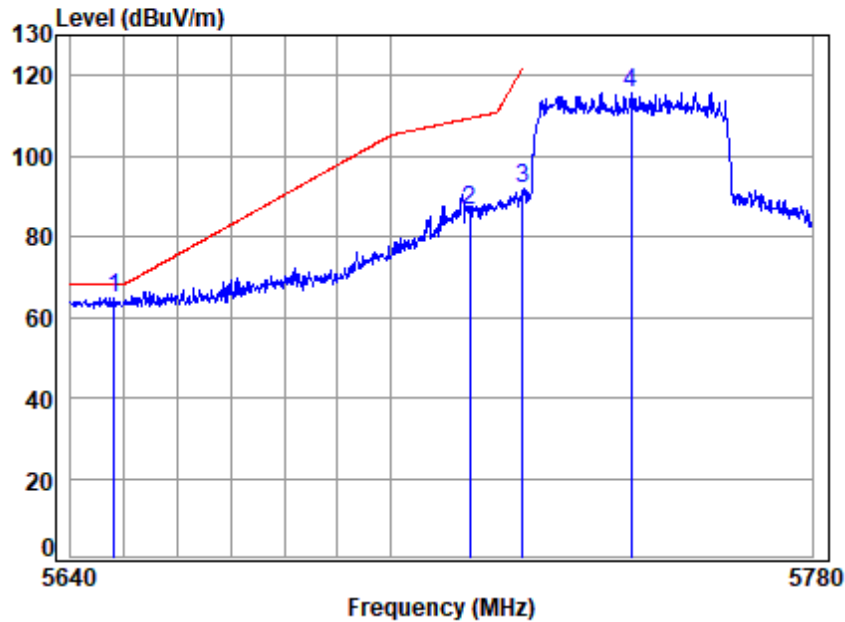


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5745.5 Band edge
Note : 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5641.80	7.92	34.45	35.07	58.05	65.35	68.20	-2.85 peak
2	5715.00	7.97	34.27	35.03	79.85	87.06	109.40	-22.34 peak
3	5725.00	7.98	34.25	35.03	85.55	92.75	122.20	-29.45 peak
4	5745.50	7.99	34.21	35.02	109.72	116.90	-----	----- peak



Test Mode: 25; Polarity: Vertical; Modulation: OFDM; Channel: Low

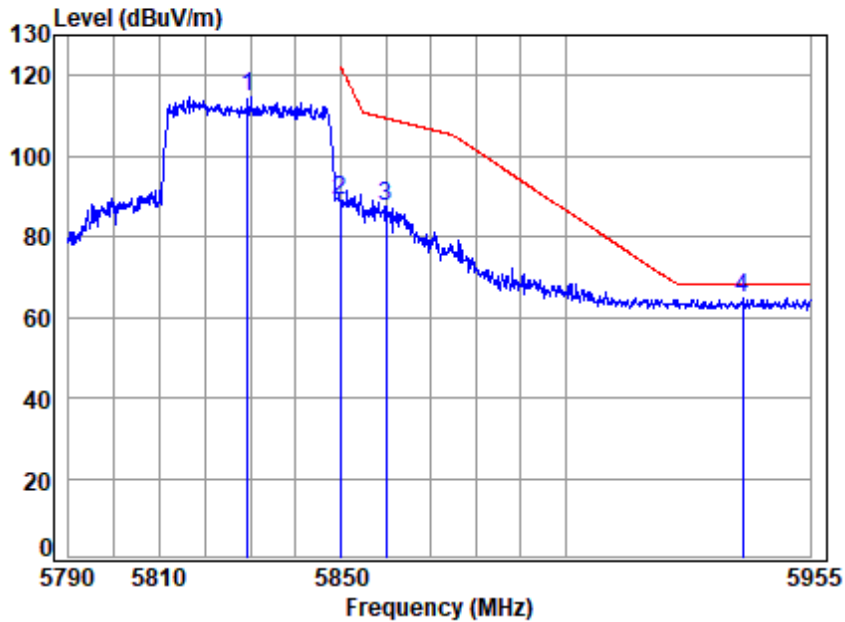


Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5745.5 Band edge
Note : 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5648.03	7.92	34.41	35.06	57.70	64.97	68.20	-3.23 peak
2	5715.00	7.97	34.27	35.03	79.32	86.53	109.40	-22.87 peak
3	5725.00	7.98	34.25	35.03	84.91	92.11	122.20	-30.09 peak
4	5745.50	7.99	34.21	35.02	108.46	115.64	-----	----- peak



Test Mode: 25; Polarity: Horizontal; Modulation: OFDM; Channel: High

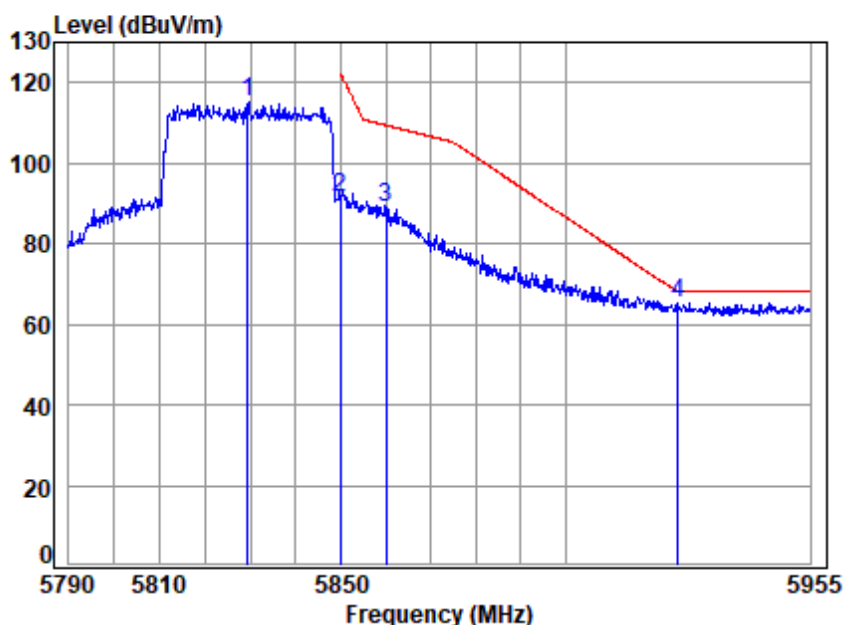


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03204AT/03205AT
Mode : 5829.5 Band edge
Note : 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5829.50	8.05	34.36	34.98	107.31	114.74	-----	----- peak
2	5850.00	8.07	34.40	34.97	81.57	89.07	122.20	-33.13 peak
3	5860.00	8.07	34.44	34.96	79.77	87.32	109.40	-22.08 peak
4	5939.79	8.13	34.68	34.93	56.96	64.84	68.20	-3.36 peak



Test Mode: 25; Polarity: Vertical; Modulation: OFDM; Channel: High



Site : chamber
Condition: 3m VERTICAL
Job No : 03204AT/03205AT
Mode : 5829.5 Band edge
Note : 40M

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5829.50	8.05	34.36	34.98	107.69	115.12	-----	----- peak
2	5850.00	8.07	34.40	34.97	83.95	91.45	122.20	-30.75 peak
3	5860.00	8.07	34.44	34.96	81.23	88.78	109.40	-20.62 peak
4	5925.29	8.12	34.65	34.93	57.64	65.48	68.20	-2.72 peak



7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

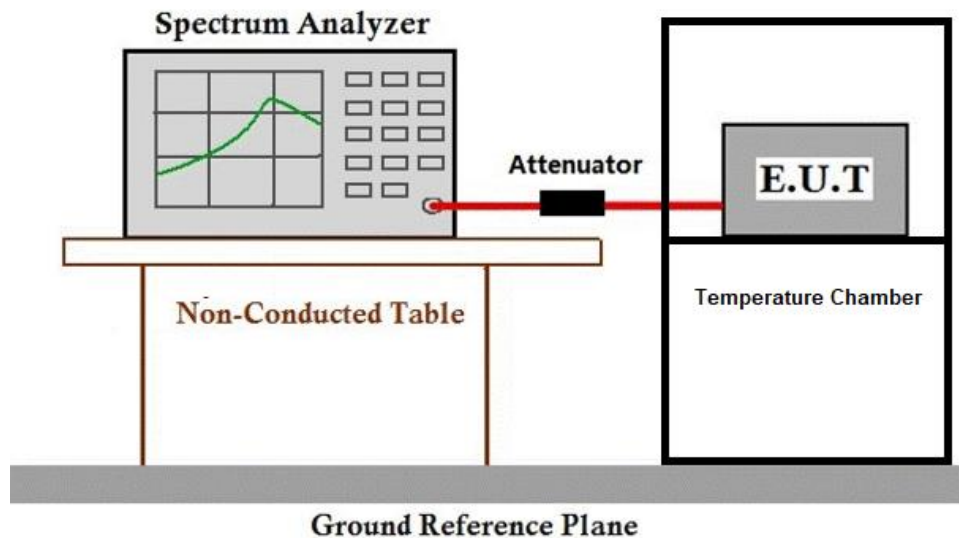
Humidity: 42.7 % RH

Atmospheric Pressure: 1000 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	10	TX mode(5.1G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	12	TX mode(5.1G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	14	TX mode(5.1G SDR 40MHz)_Keep the EUT in continuously transmitting mode.
Final test	16	TX mode(5.8G SDR 1.4MHz)_Keep the EUT in continuously transmitting mode.
Final test	18	TX mode(5.8G SDR 3MHz)_Keep the EUT in continuously transmitting mode.
Final test	20	TX mode(5.8G SDR 10MHz)_Keep the EUT in continuously transmitting mode.
Final test	22	TX mode(5.8G SDR 20MHz)_Keep the EUT in continuously transmitting mode.
Final test	24	TX mode(5.8G SDR 40MHz)_Keep the EUT in continuously transmitting mode.

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Setup Photo for SZCR2309003204AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2309003204AT



10 Appendix

Note: Both 1.4MHz bandwidth and 3MHz bandwidth were selected the lowest, middle and highest frequency to test, among these modes, only the operation frequency is different, modulation type and target power are the same.

5.1G SDR SISO Mode:

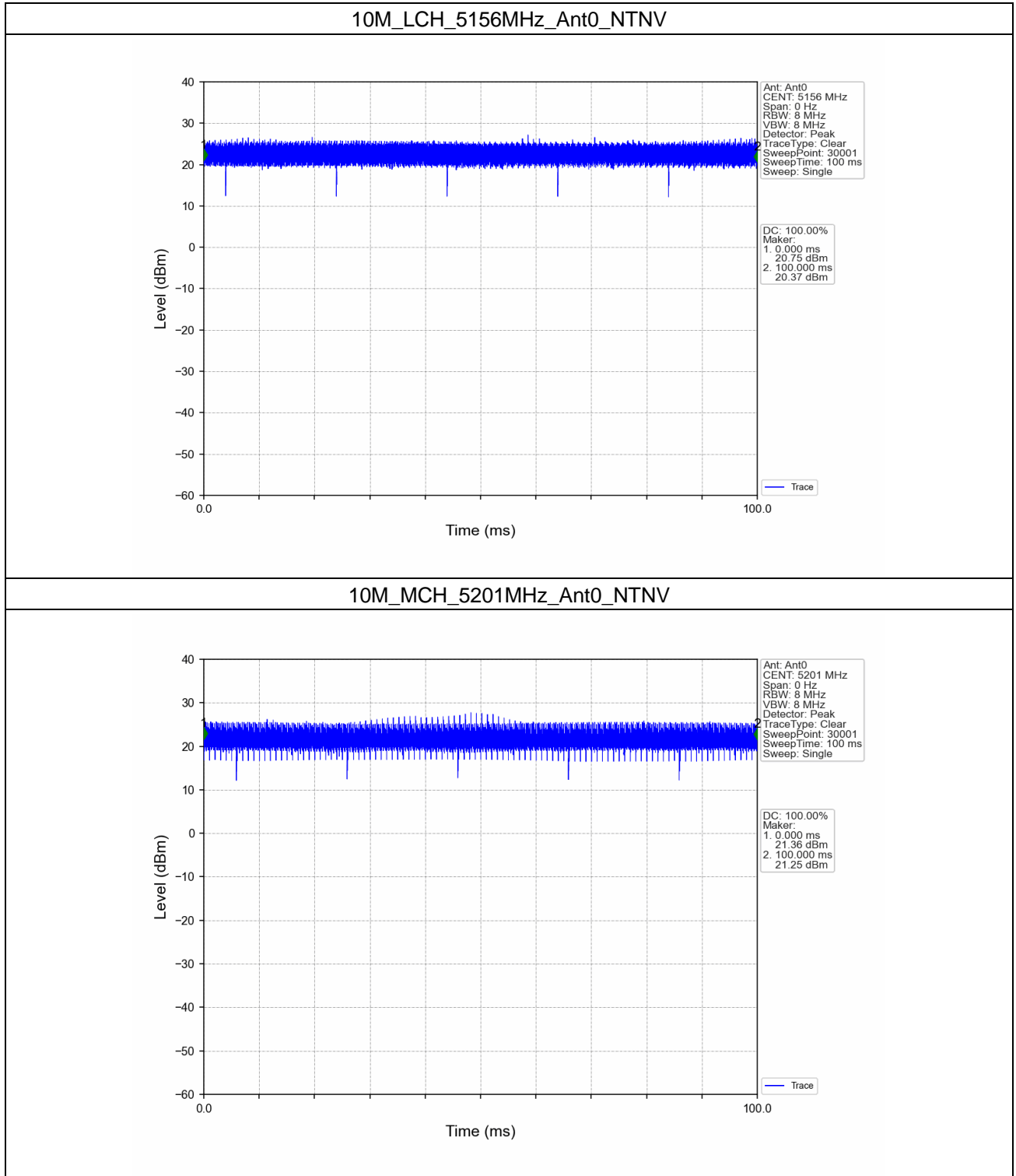
1. Duty Cycle

1.1 Ant0

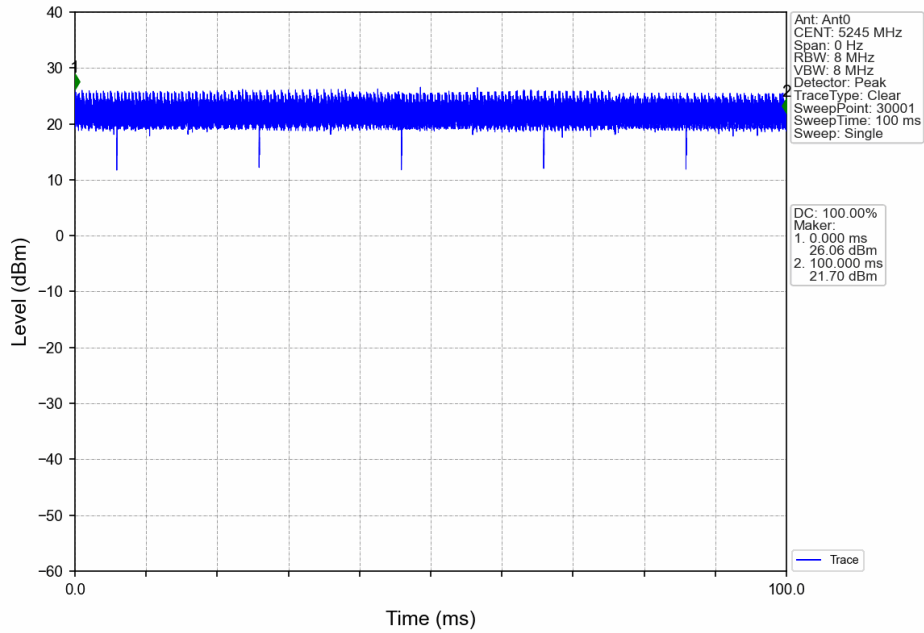
1.1.1 Test Result

Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
10M	SISO	5156	100.000	100.000	100.00	0.00	0.00
		5201	100.000	100.000	100.00	0.00	0.00
		5245	100.000	100.000	100.00	0.00	0.00
20M	SISO	5161	100.000	100.000	100.00	0.00	0.00
		5201	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
40M	SISO	5170	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00

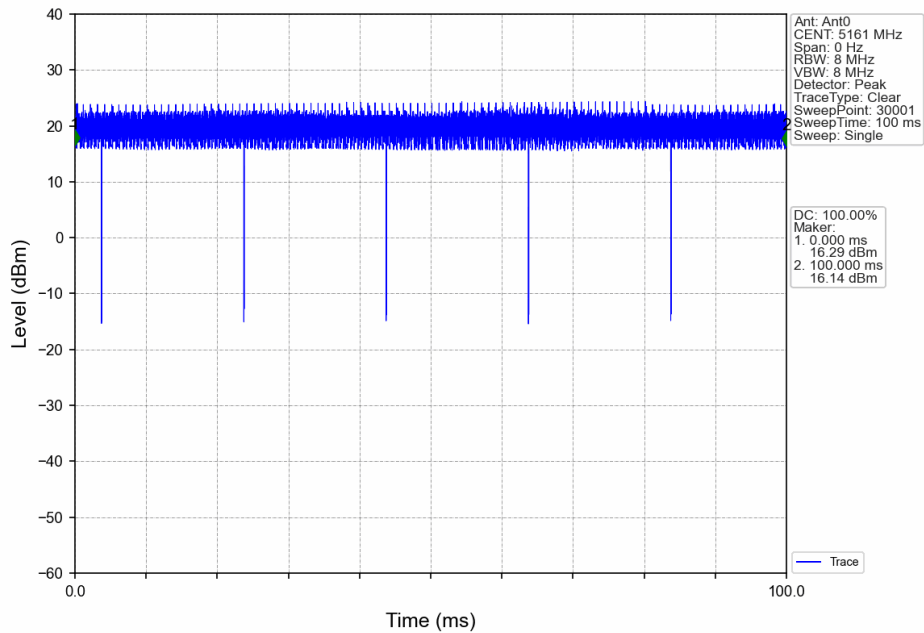
1.1.2 Test Graph



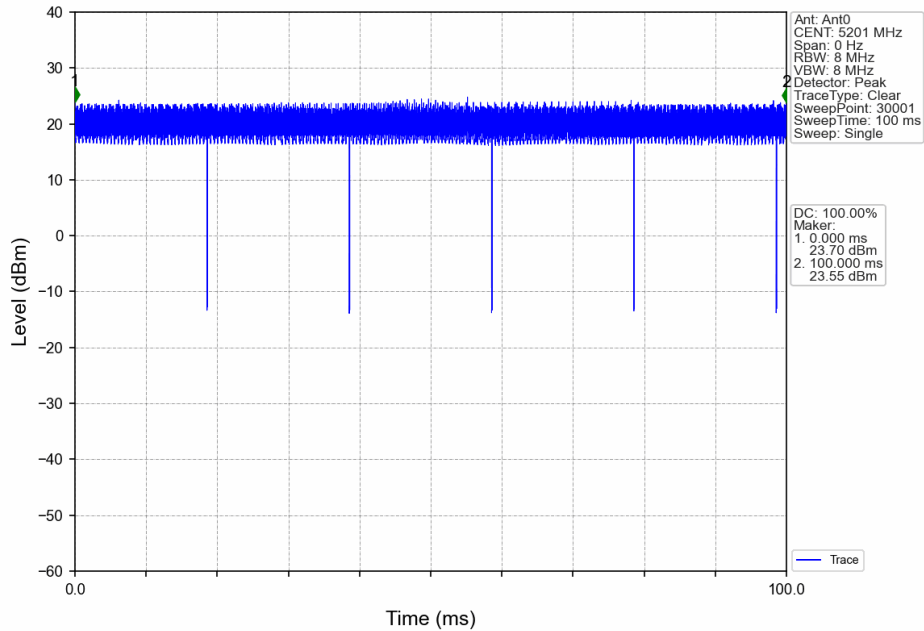
10M_HCH_5245MHz_Ant0_NTNV



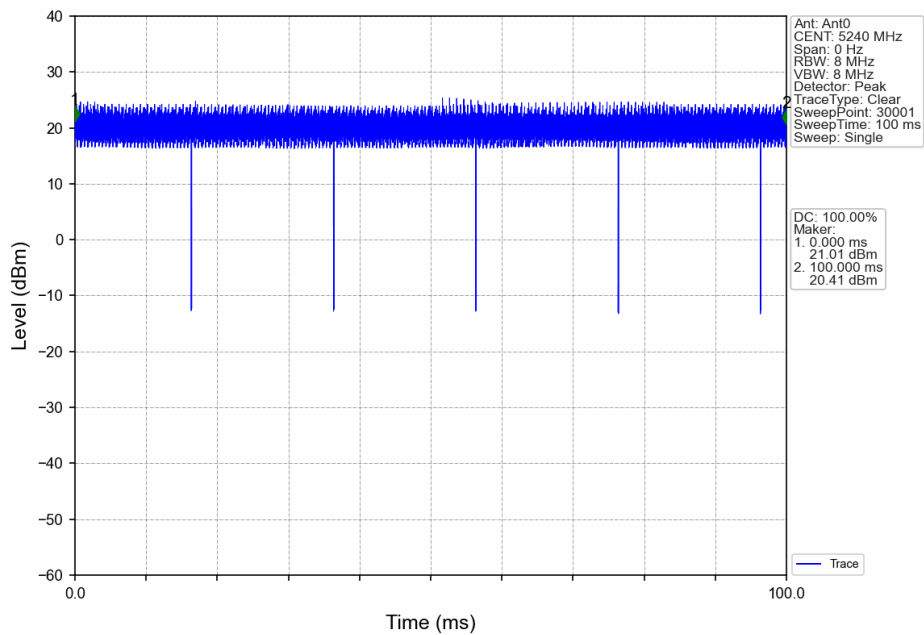
20M_LCH_5161MHz_Ant0_NTNV



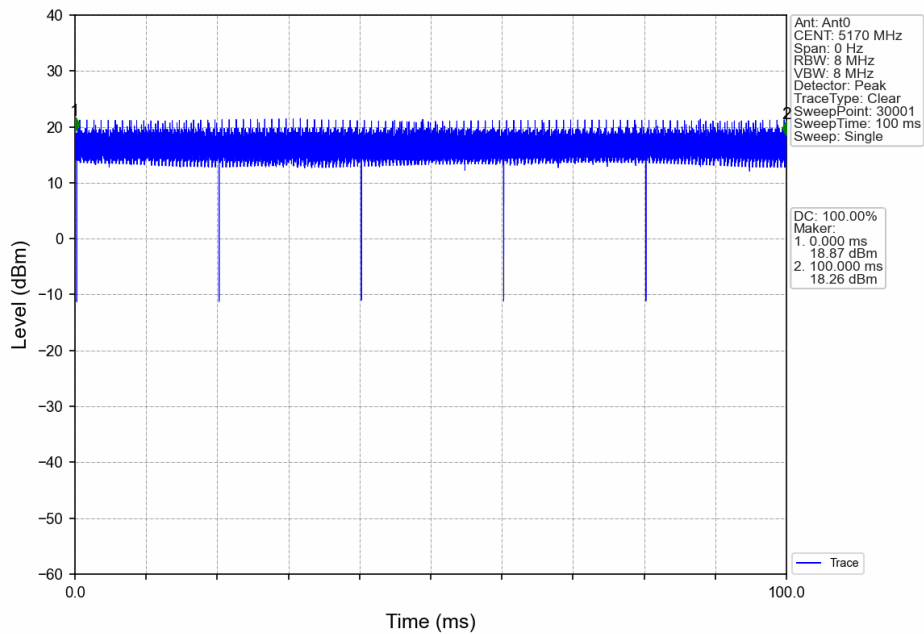
20M_MCH_5201MHz_Ant0_NTNV



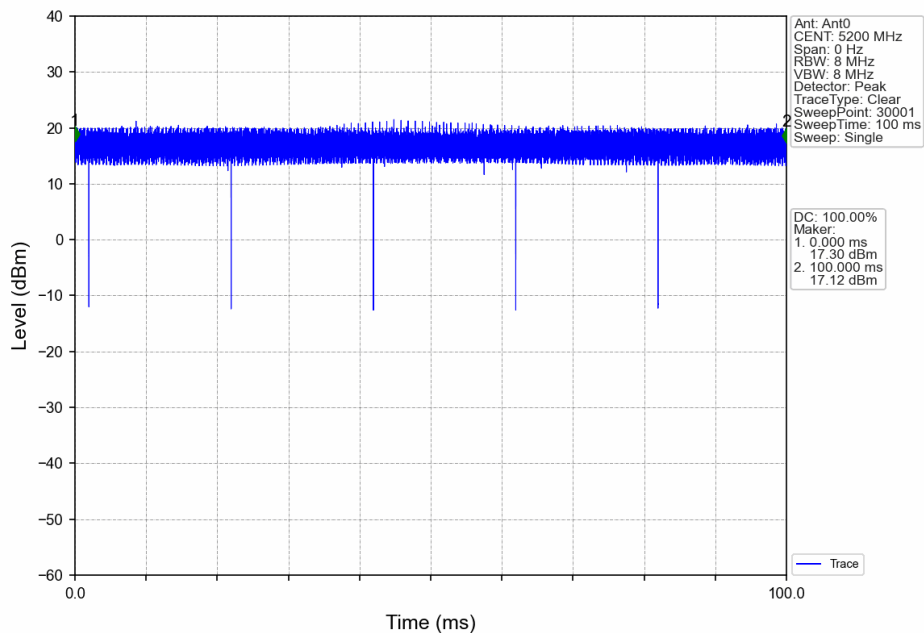
20M_HCH_5240MHz_Ant0_NTNV

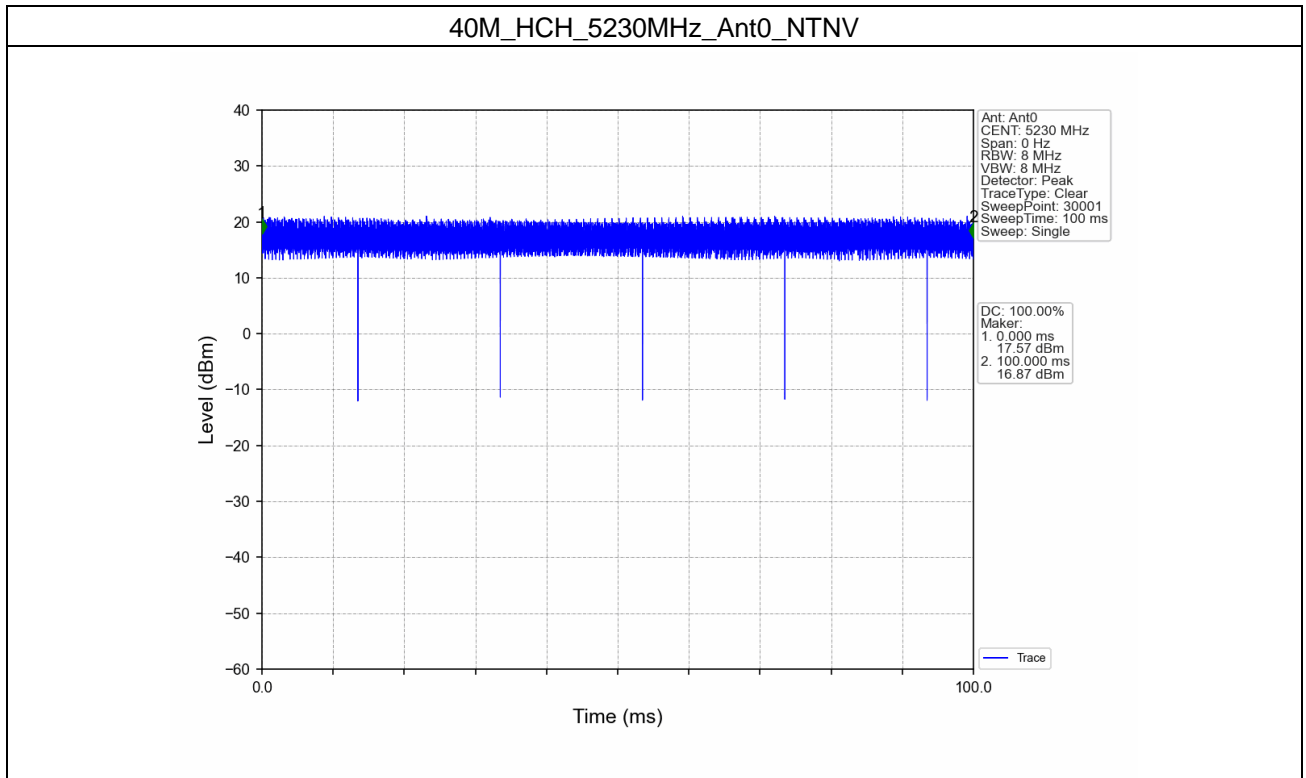


40M_LCH_5170MHz_Ant0_NTNV



40M_MCH_5200MHz_Ant0_NTNV





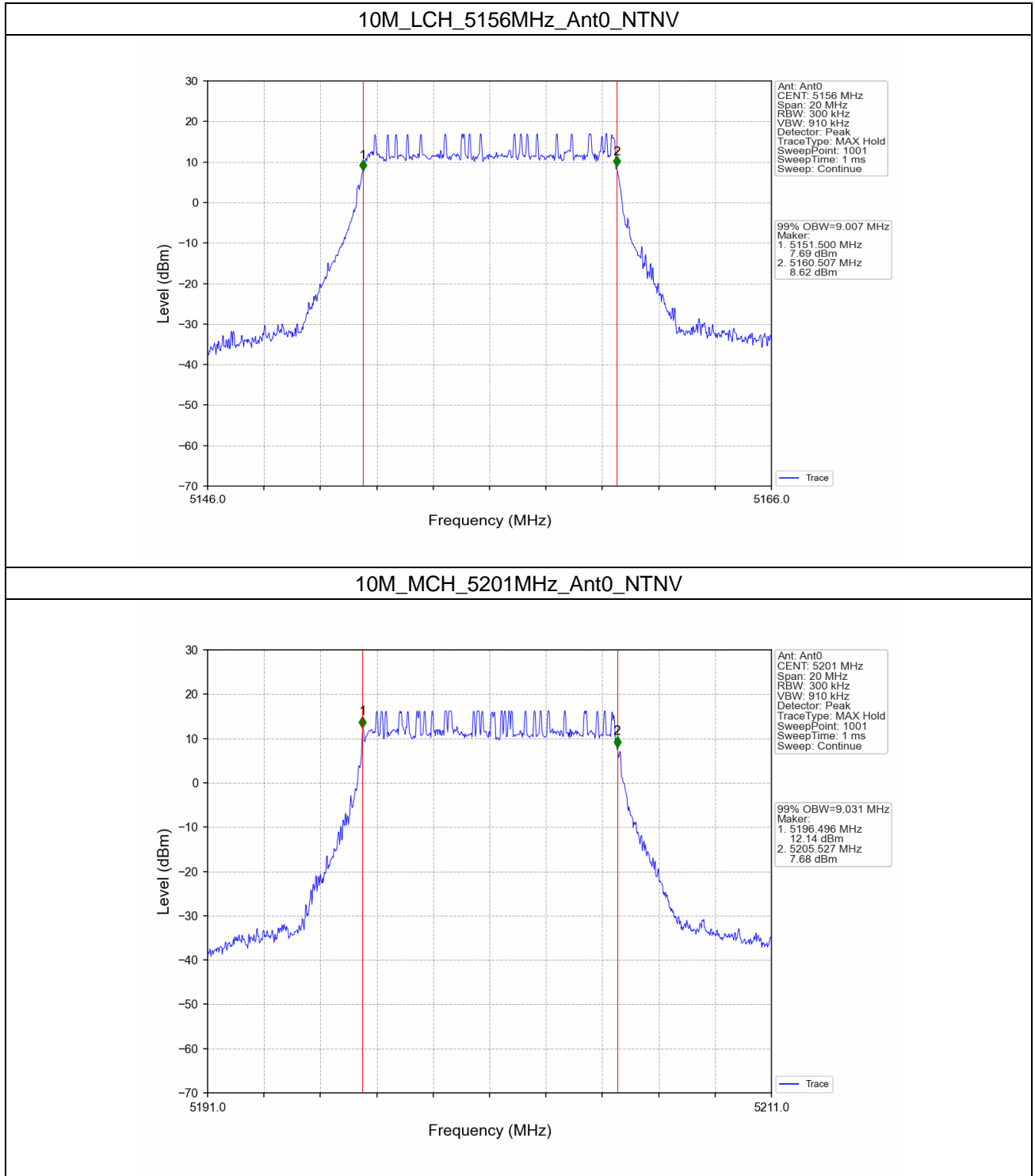
2. Bandwidth

2.1 OBW

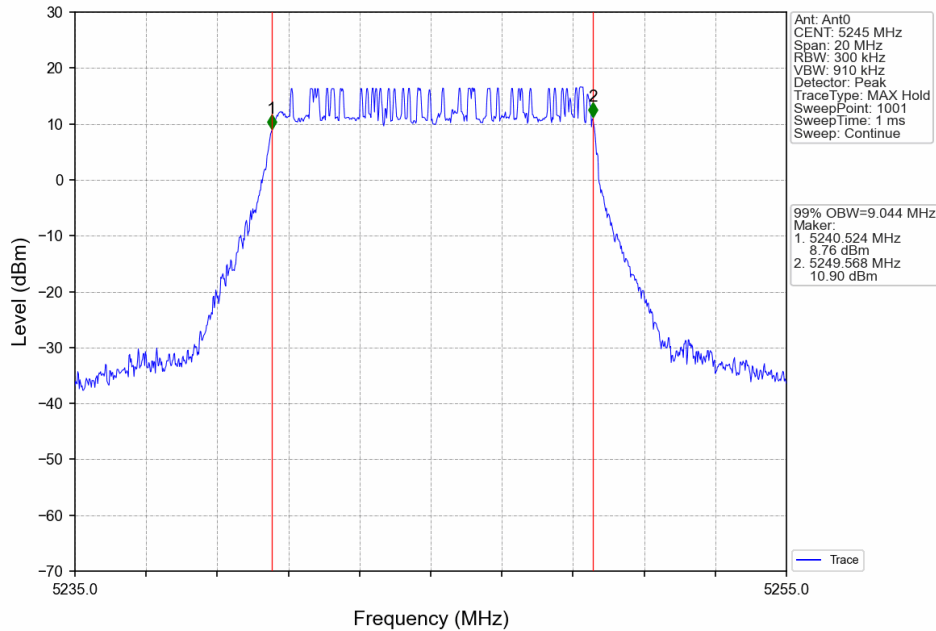
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
10M	SISO	5156	0	9.007	/	Pass
		5201	0	9.031	/	Pass
		5245	0	9.044	/	Pass
20M	SISO	5161	0	18.026	/	Pass
		5201	0	17.972	/	Pass
		5240	0	17.940	/	Pass
40M	SISO	5170	0	35.700	/	Pass
		5200	0	36.271	/	Pass
		5230	0	36.010	/	Pass

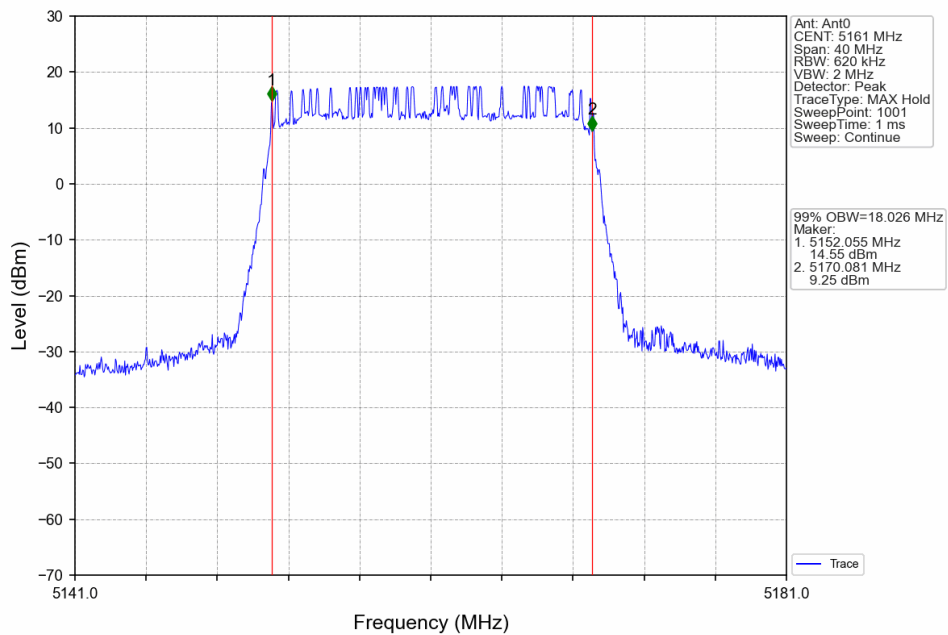
2.1.2 Test Graph



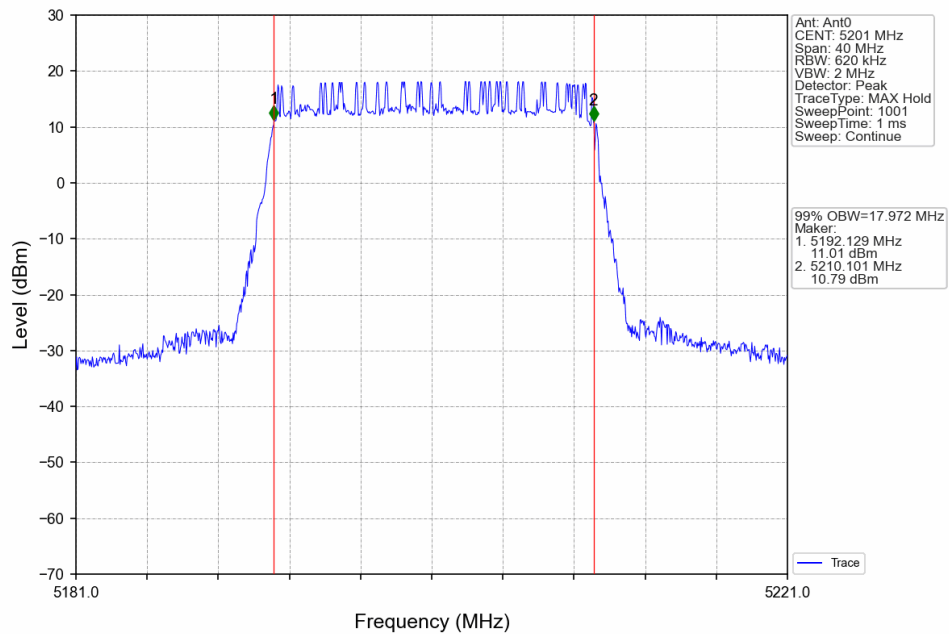
10M_HCH_5245MHz_Ant0_NTNV



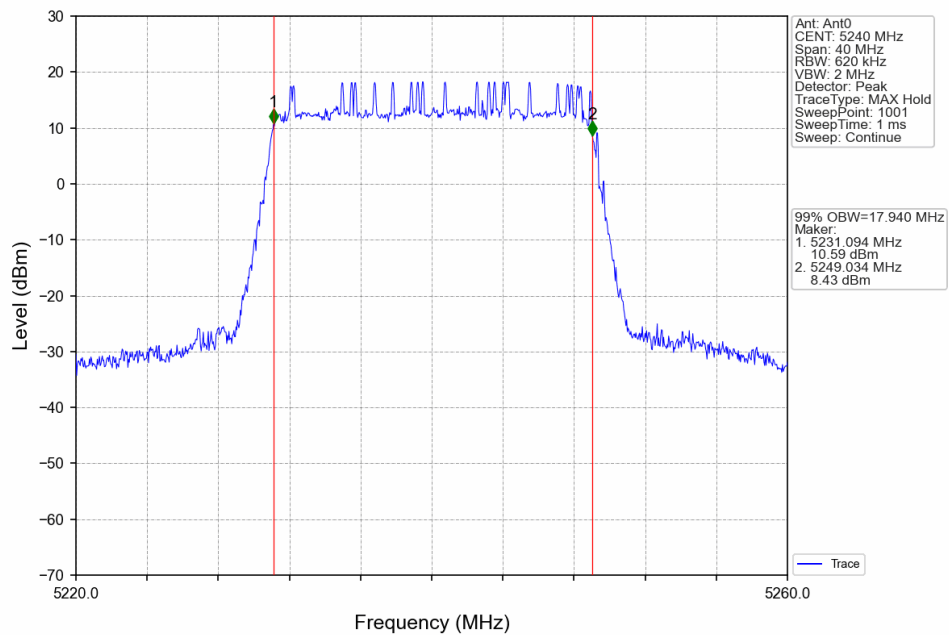
20M_LCH_5161MHz_Ant0_NTNV



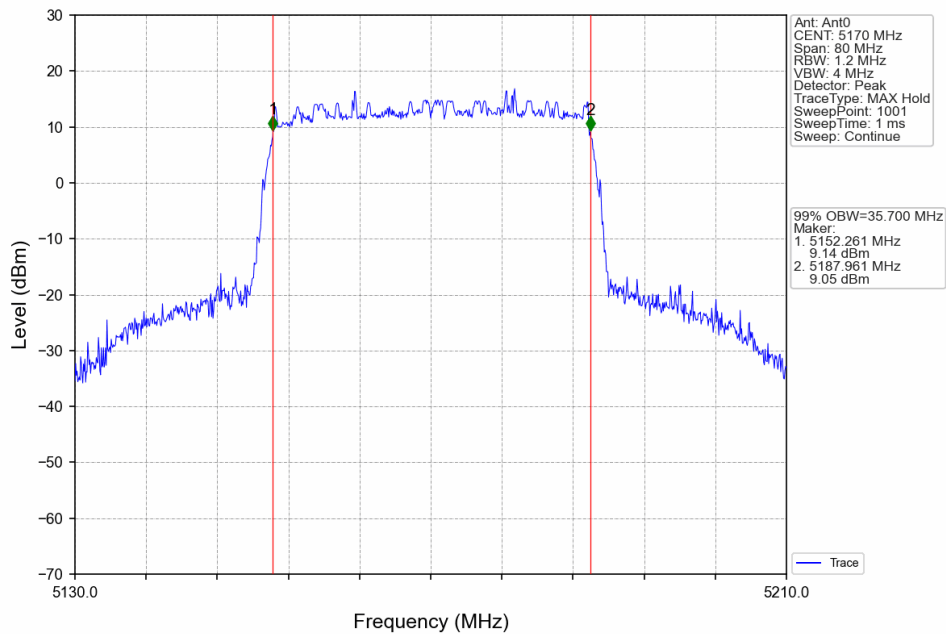
20M_MCH_5201MHz_Ant0_NTNV



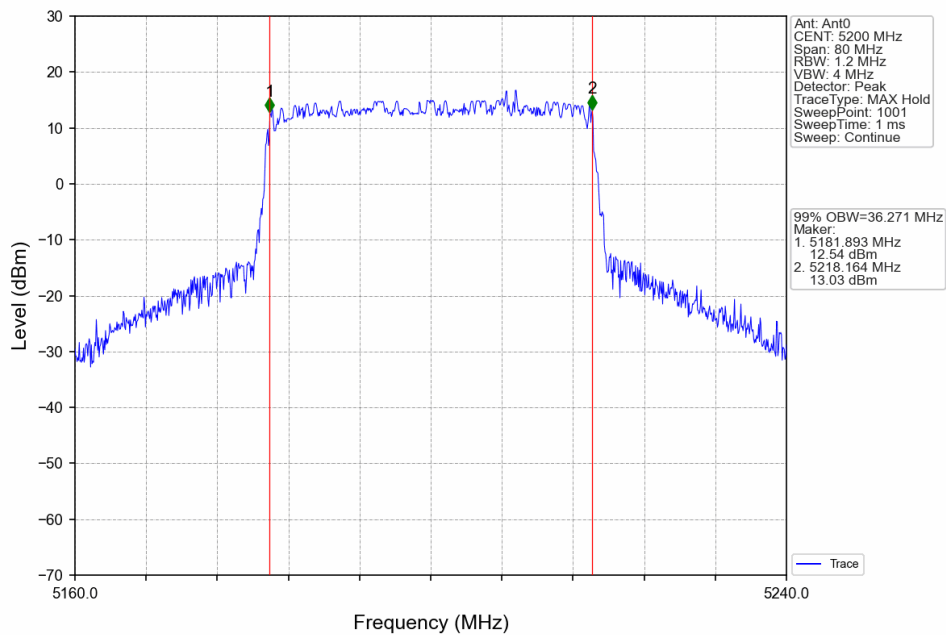
20M_HCH_5240MHz_Ant0_NTNV

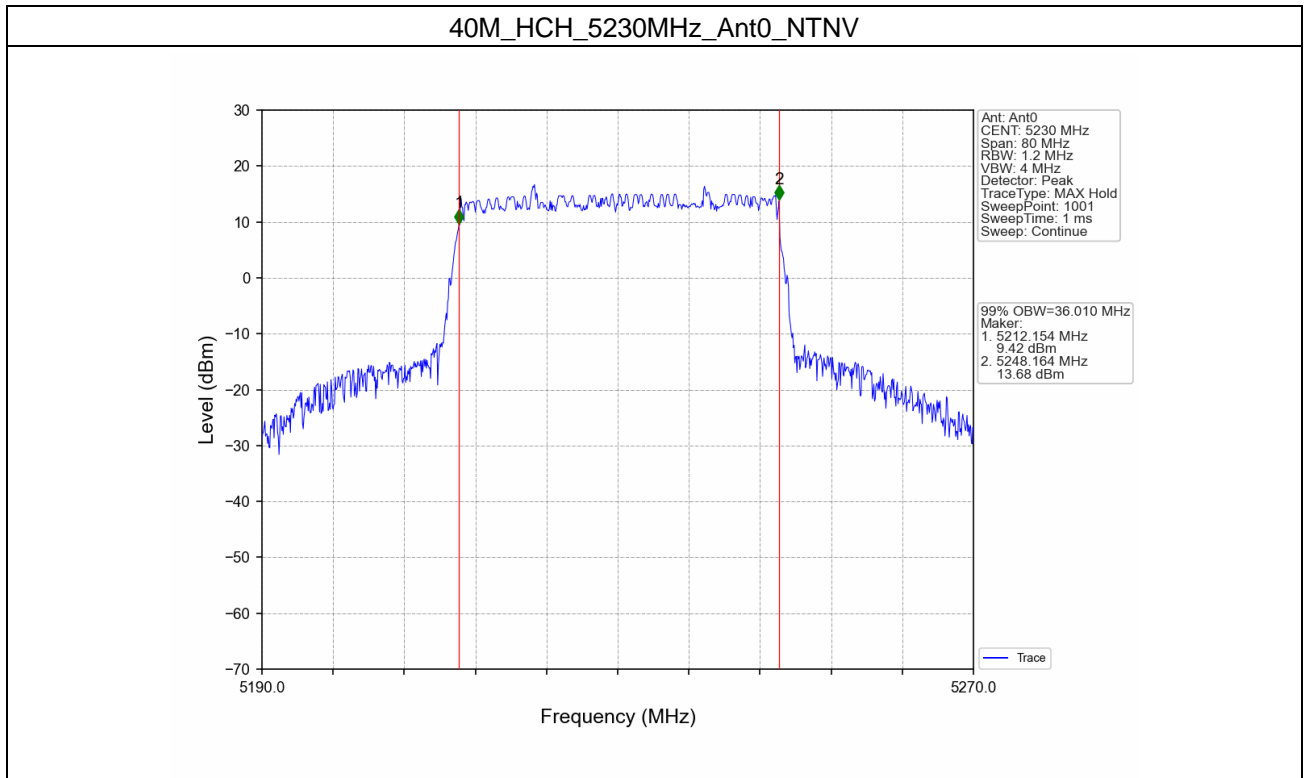


40M_LCH_5170MHz_Ant0_NTNV



40M_MCH_5200MHz_Ant0_NTNV





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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

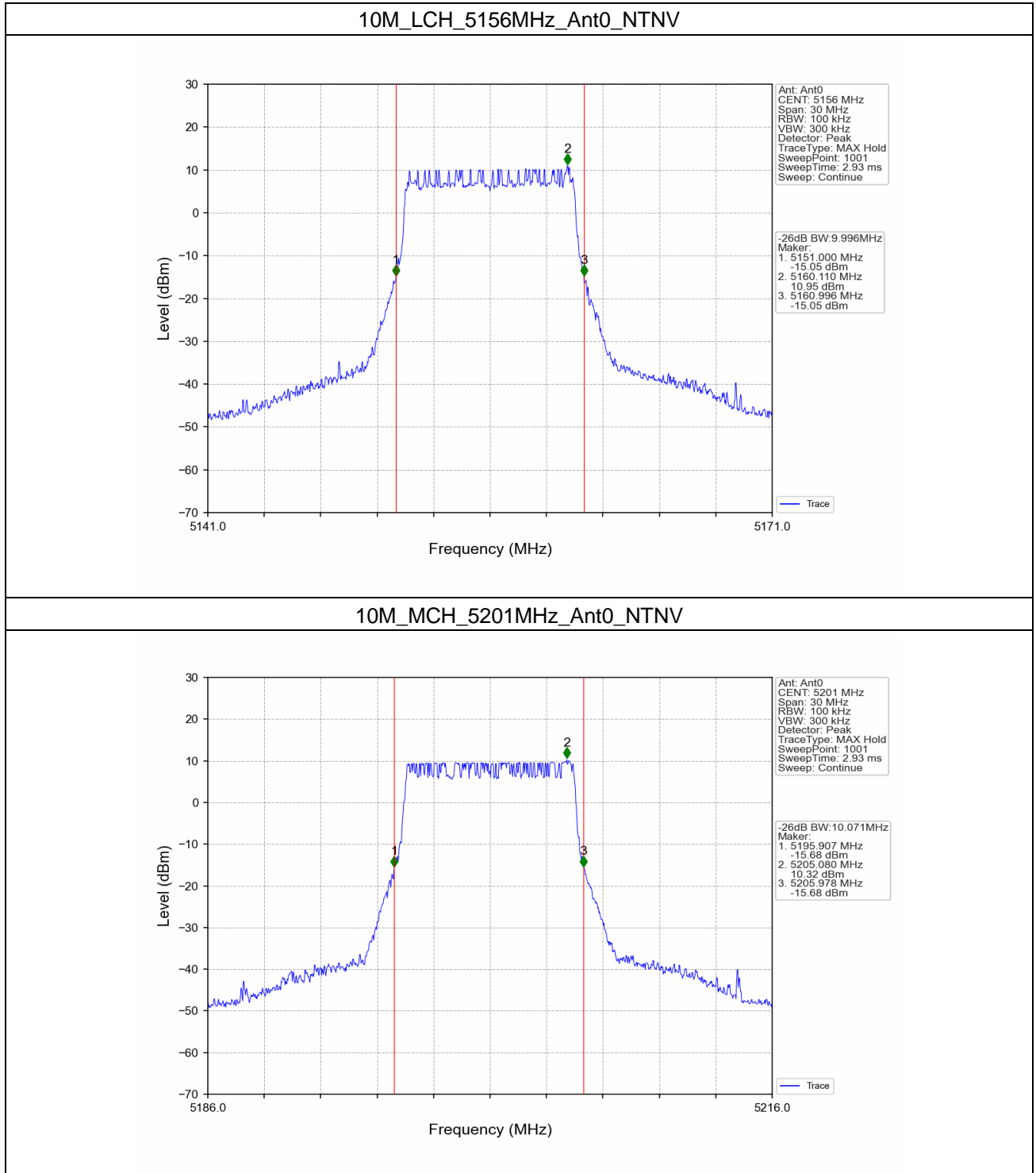
Page: 103 of 287

2.2 26dB BW

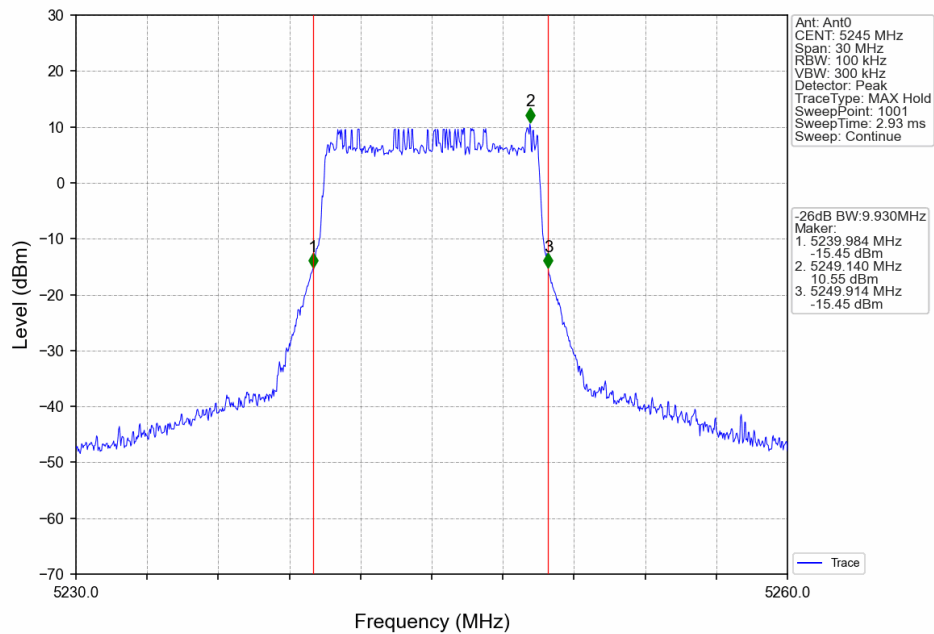
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
10M	SISO	5156	0	9.996	/	Pass
		5201	0	10.071	/	Pass
		5245	0	9.930	/	Pass
20M	SISO	5161	0	18.855	/	Pass
		5201	0	18.982	/	Pass
		5240	0	18.955	/	Pass
40M	SISO	5170	0	37.366	/	Pass
		5200	0	37.384	/	Pass
		5230	0	37.344	/	Pass

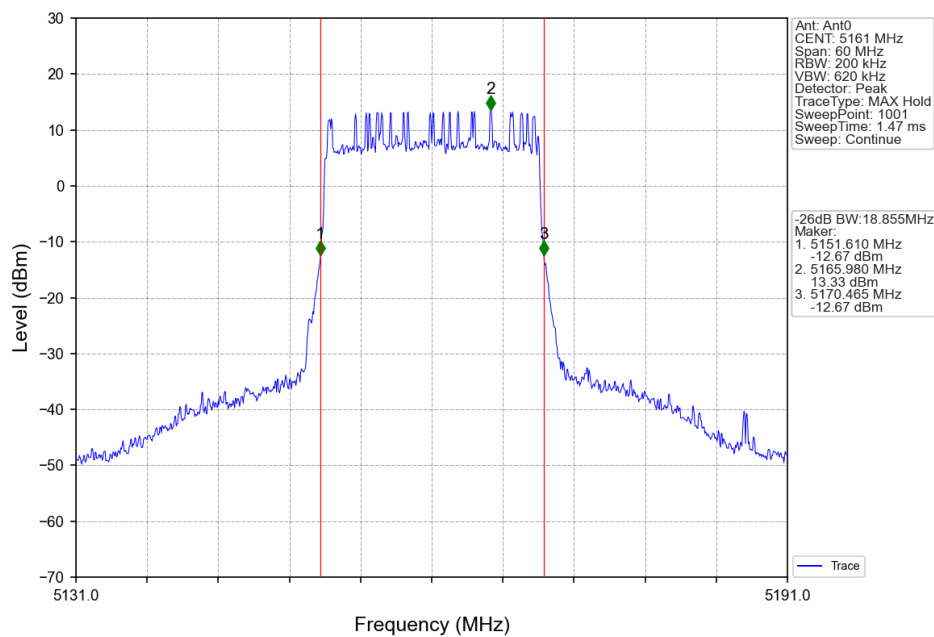
2.2.2 Test Graph



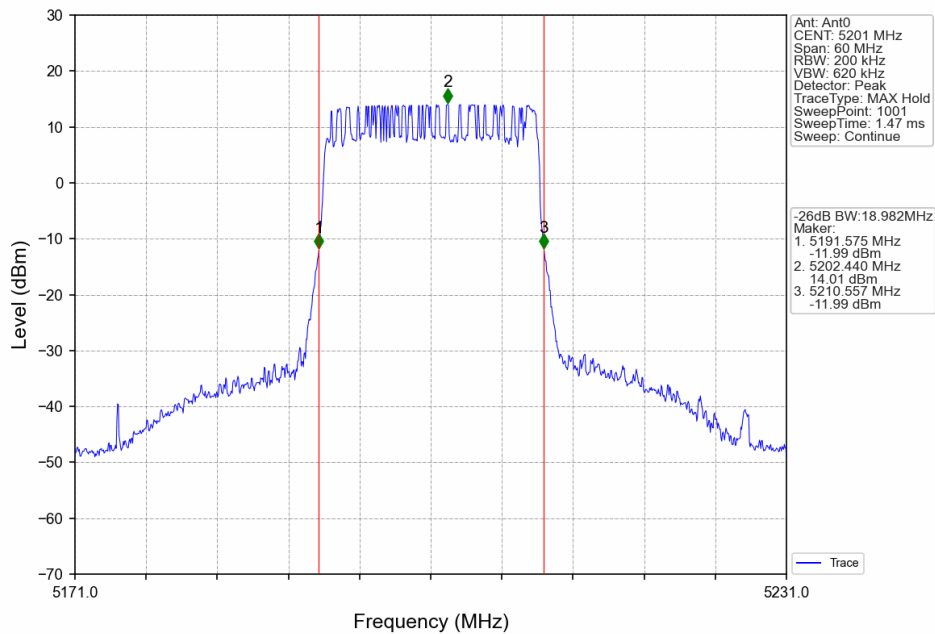
10M_HCH_5245MHz_Ant0_NTNV



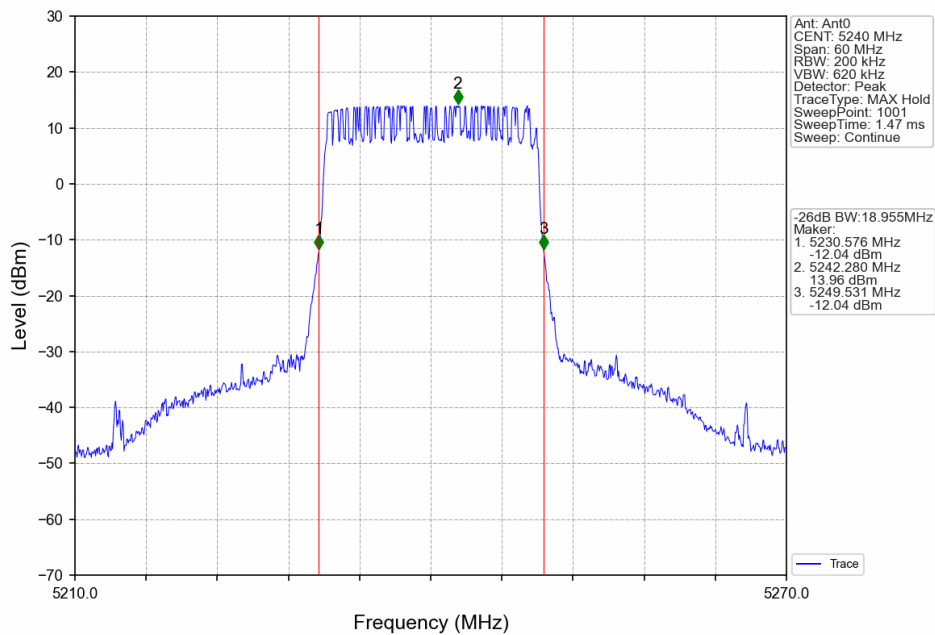
20M_LCH_5161MHz_Ant0_NTNV



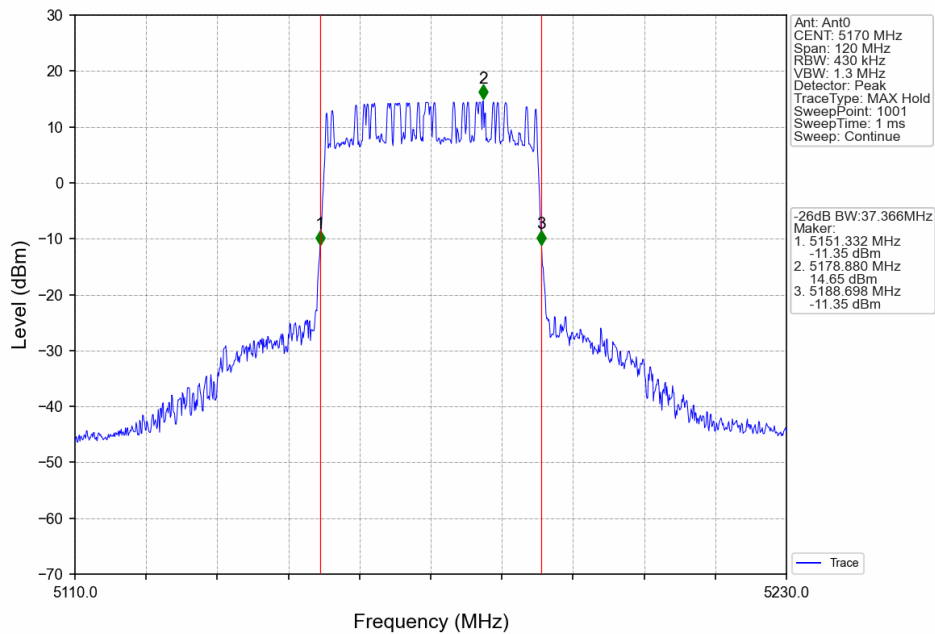
20M_MCH_5201MHz_Ant0_NTNV



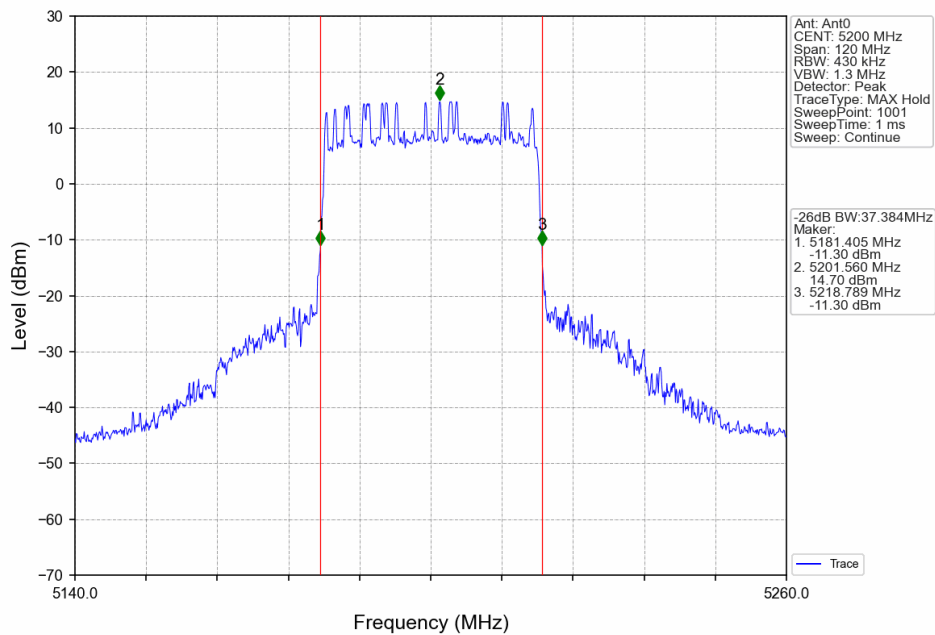
20M_HCH_5240MHz_Ant0_NTNV



40M_LCH_5170MHz_Ant0_NTNV



40M_MCH_5200MHz_Ant0_NTNV

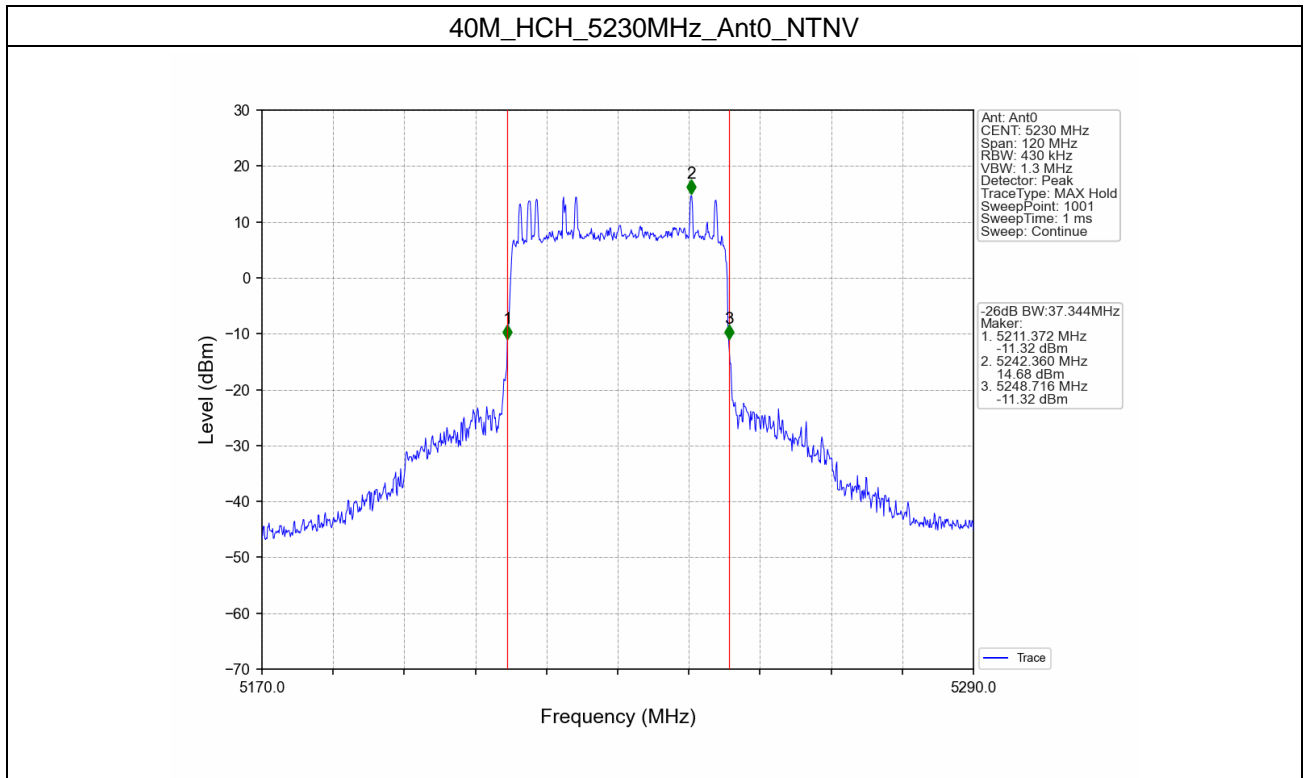


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	EIRP (dBm)					Verdict
			ANT0	ANT1	ANT2	ANT3	Limit	
10M	SISO	5156	1.49	2.11	1.57	1.87	<=21	Pass
		5201	19.65	20.13	19.45	19.94	<=21	Pass
		5245	19.79	19.92	19.30	19.20	<=21	Pass
20M	SISO	5161	12.14	12.48	11.37	11.78	<=21	Pass
		5201	20.26	20.21	19.66	20.18	<=21	Pass
		5240	20.34	20.25	19.85	20.33	<=21	Pass
40M	SISO	5170	11.61	11.93	10.83	11.37	<=21	Pass
		5200	20.26	20.22	19.95	19.82	<=21	Pass
		5230	20.19	20.15	19.96	19.90	<=21	Pass

Note1: Antenna Gain: Ant0: 1.00dBi; Ant1: 1.00dBi; Ant2: 3.00dBi; Ant3: 3.00dBi;

4. Maximum Power Spectral Density

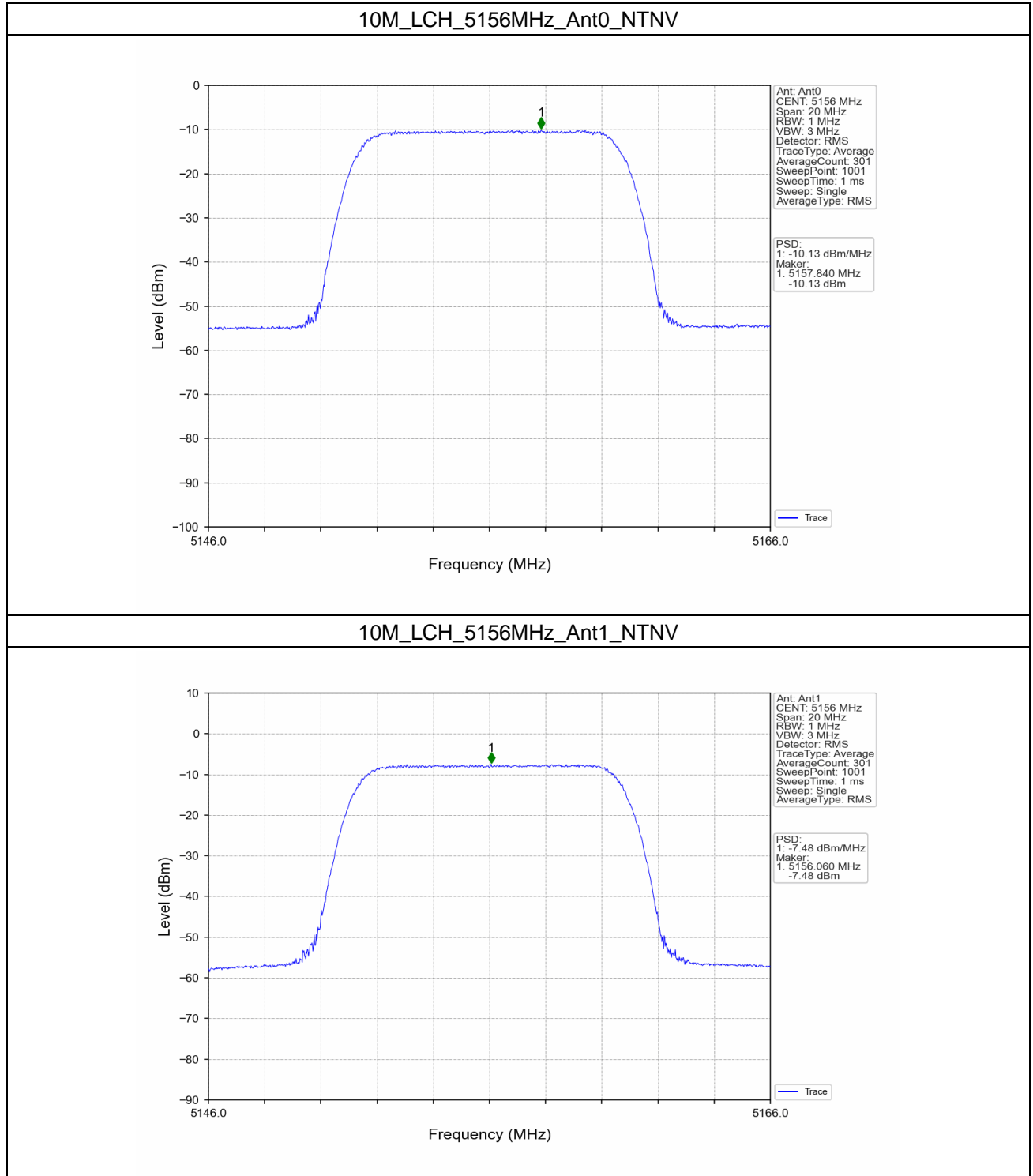
4.1 PSD

4.1.1 Test Result

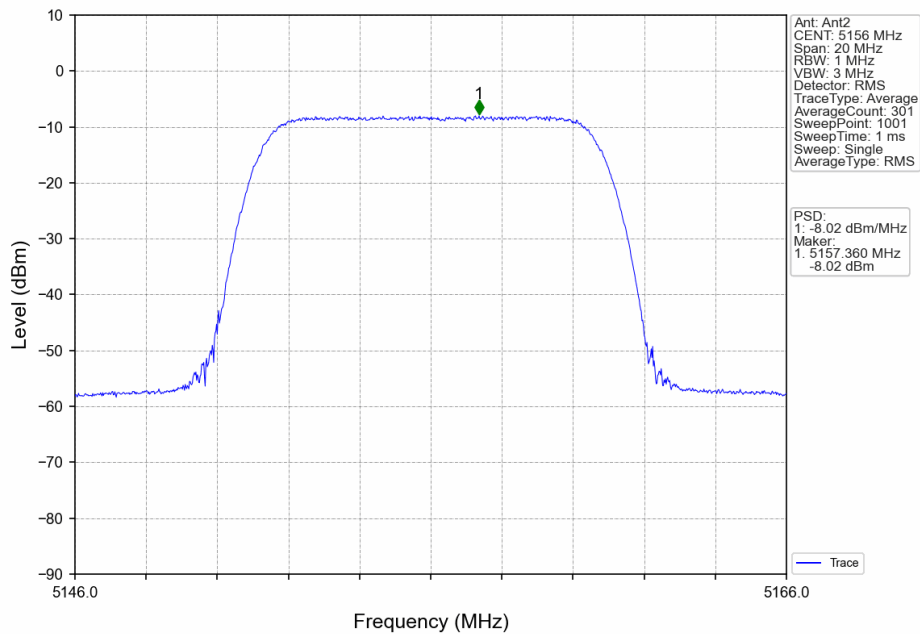
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)					Verdict
			ANT0	ANT1	ANT2	ANT3	Limit	
10M	SISO	5156	-10.13	-7.48	-8.02	-9.61	<=17	Pass
		5201	8.14	10.48	9.06	7.34	<=17	Pass
		5245	8.30	10.40	8.67	7.68	<=17	Pass
20M	SISO	5161	-2.20	-0.12	-1.09	-2.74	<=17	Pass
		5201	6.42	8.40	7.21	5.61	<=17	Pass
		5240	6.41	7.99	7.04	5.85	<=17	Pass
40M	SISO	5170	-5.86	-3.45	-4.57	-6.06	<=17	Pass
		5200	2.88	5.17	4.11	2.00	<=17	Pass
		5230	2.96	4.65	3.68	2.10	<=17	Pass

Note1: Antenna Gain: Ant0: 1.00dBi; Ant1: 1.00dBi; Ant2: 3.00dBi; Ant3: 3.00dBi;

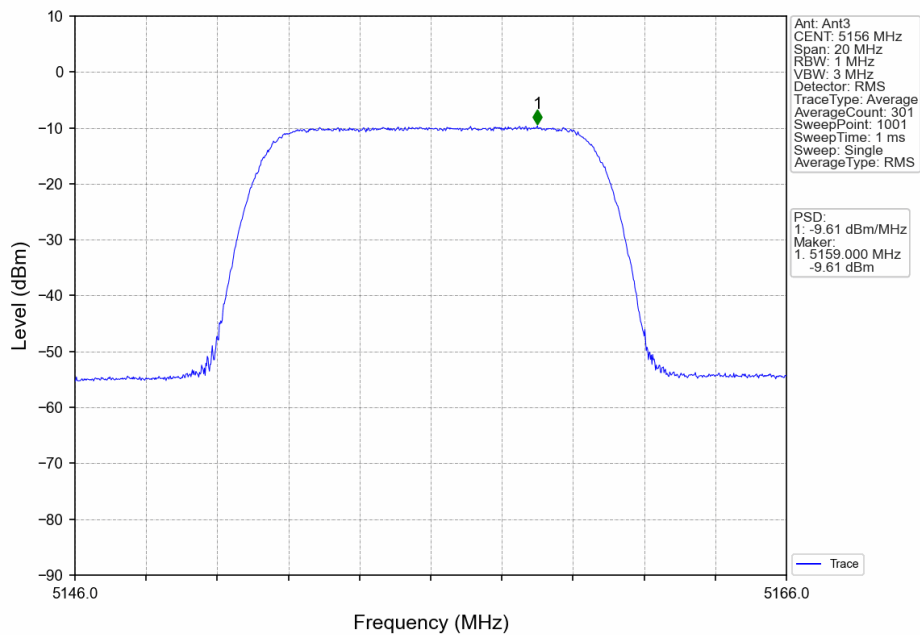
4.1.2 Test Graph



10M_LCH_5156MHz_Ant2_NTNV



10M_LCH_5156MHz_Ant3_NTNV



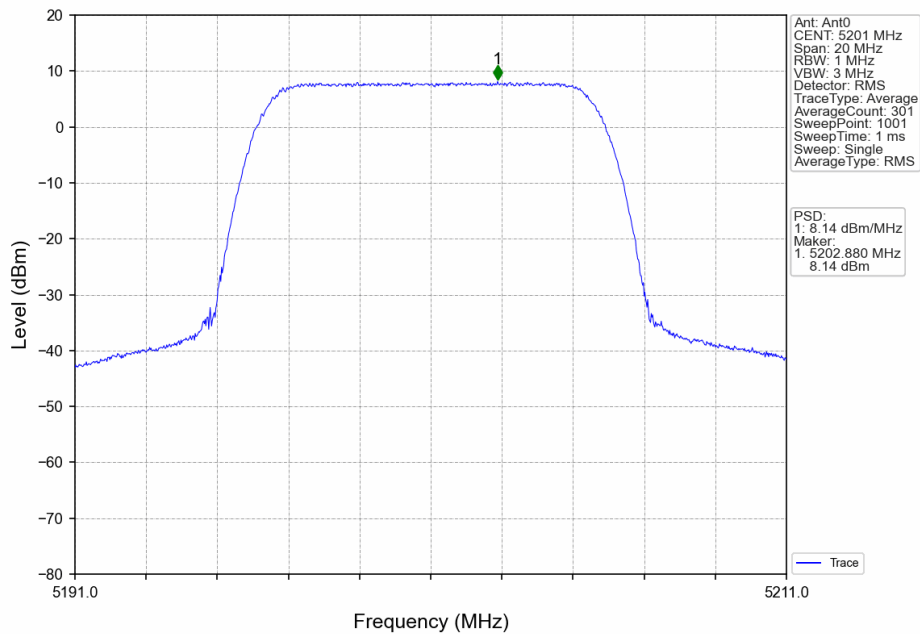
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

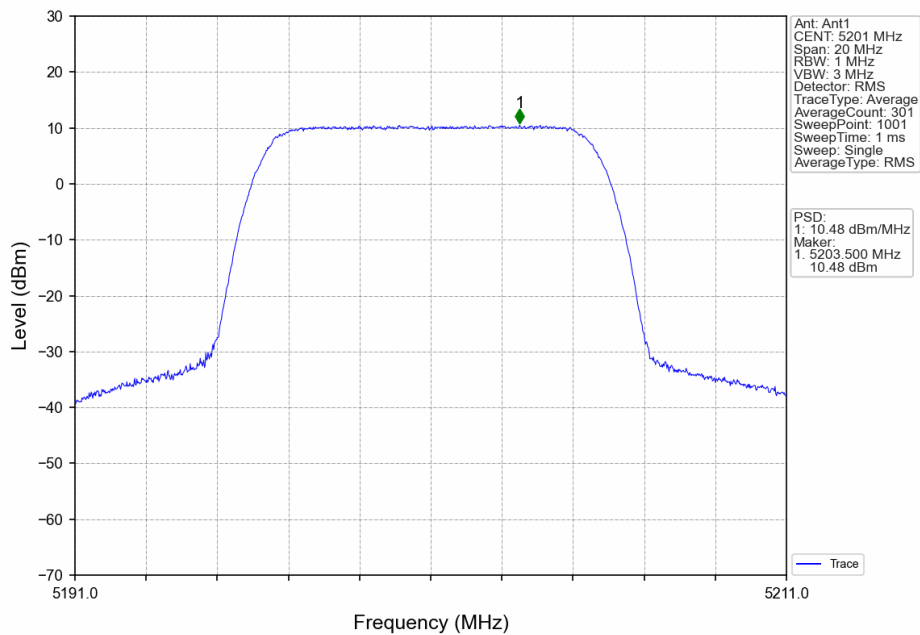
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch, Shenzhen, China

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

10M_MCH_5201MHz_Ant0_NTNV



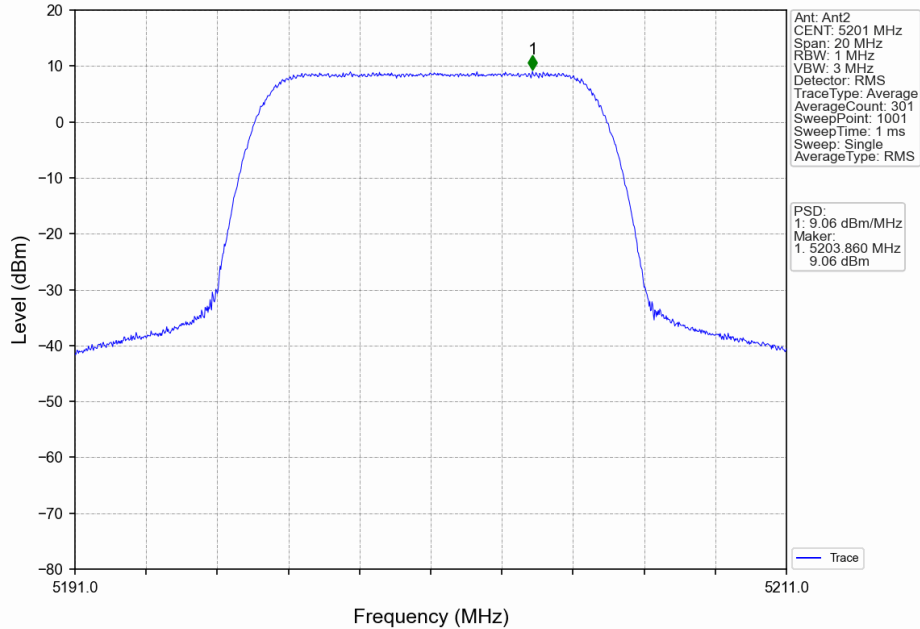
10M_MCH_5201MHz_Ant1_NTNV



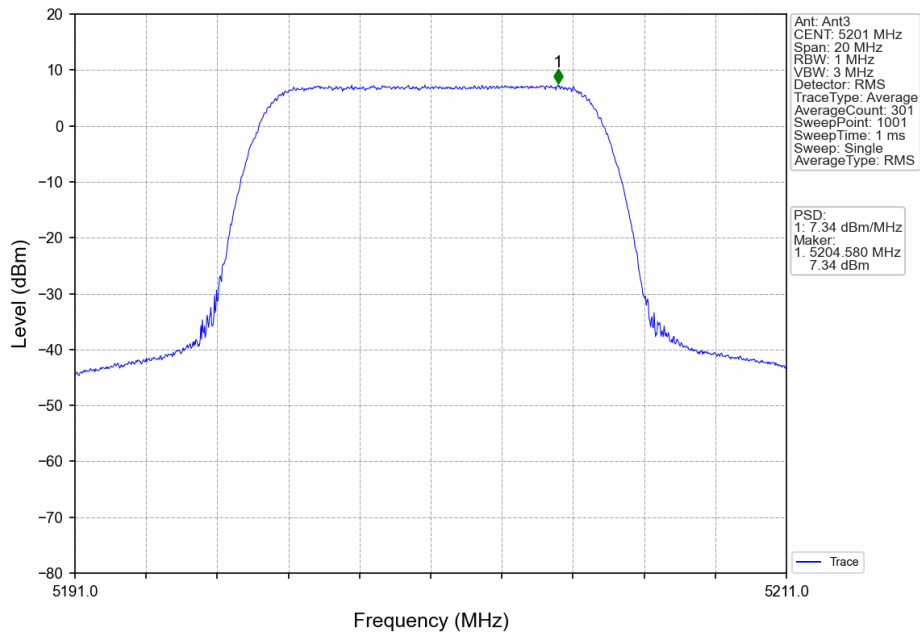
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

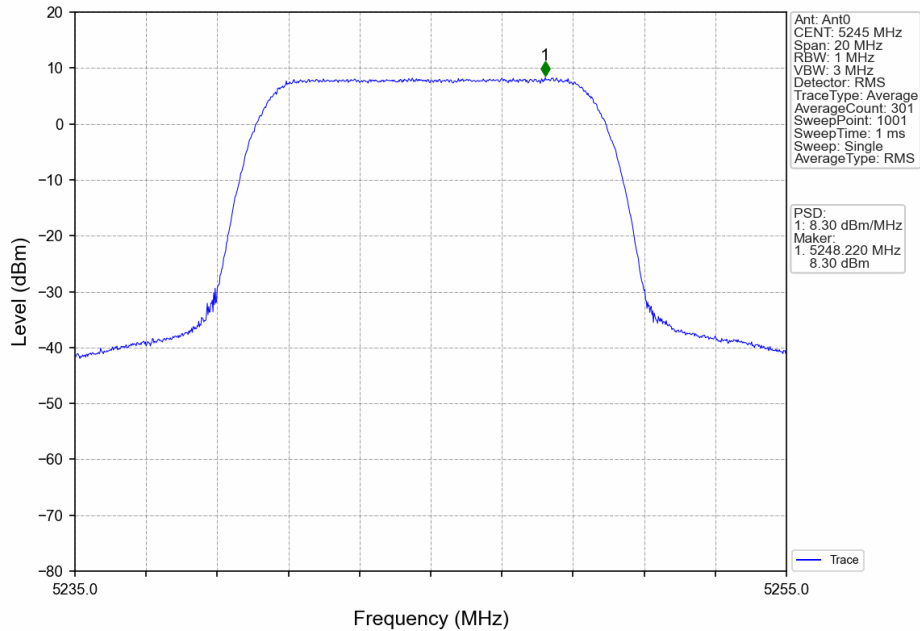
10M_MCH_5201MHz_Ant2_NTNV



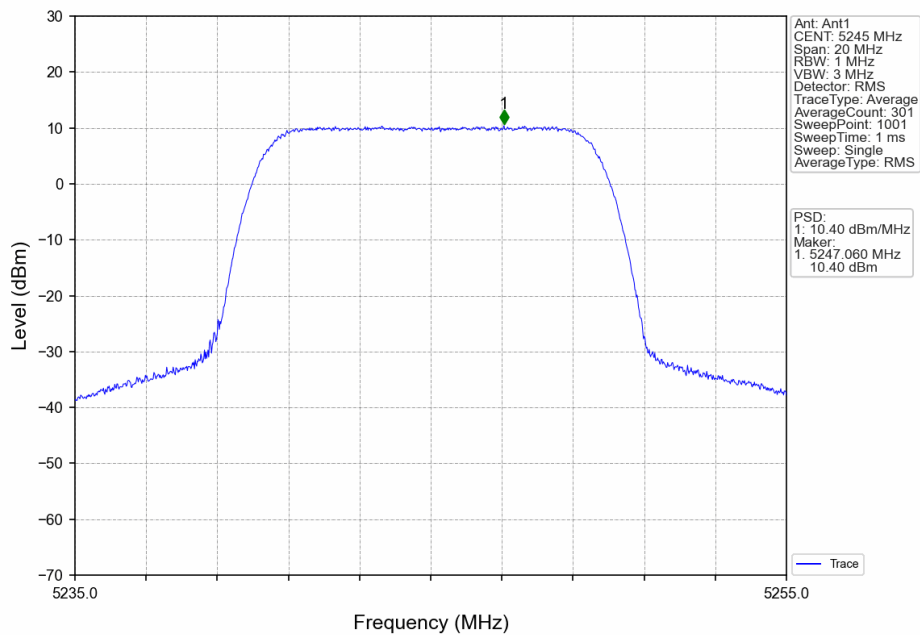
10M_MCH_5201MHz_Ant3_NTNV



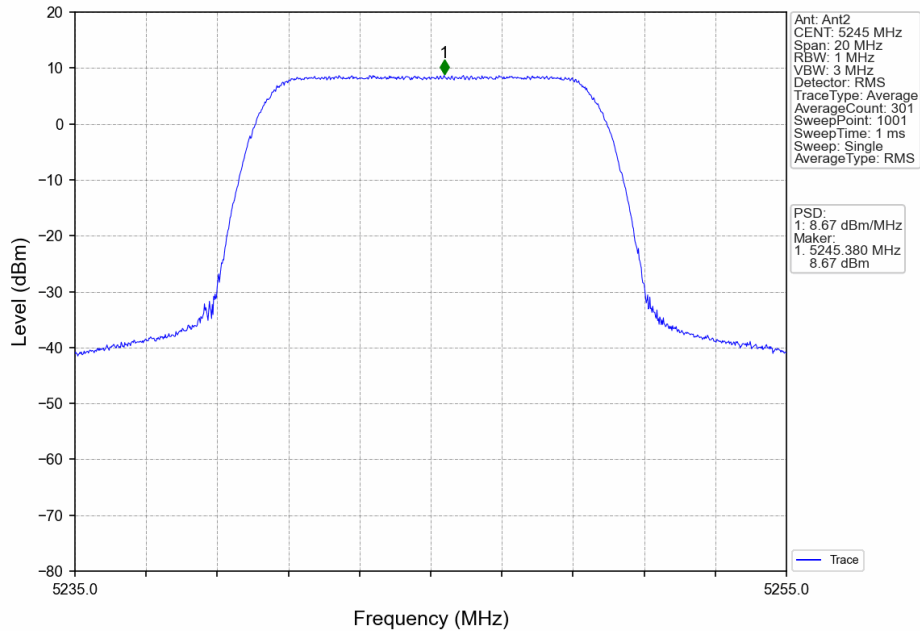
10M_HCH_5245MHz_Ant0_NTNV



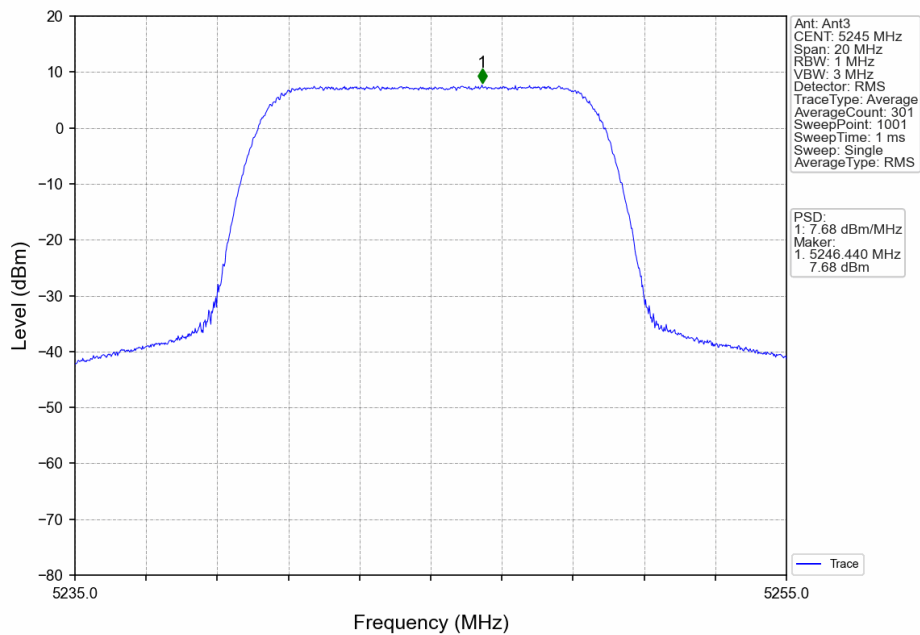
10M_HCH_5245MHz_Ant1_NTNV



10M_HCH_5245MHz_Ant2_NTNV



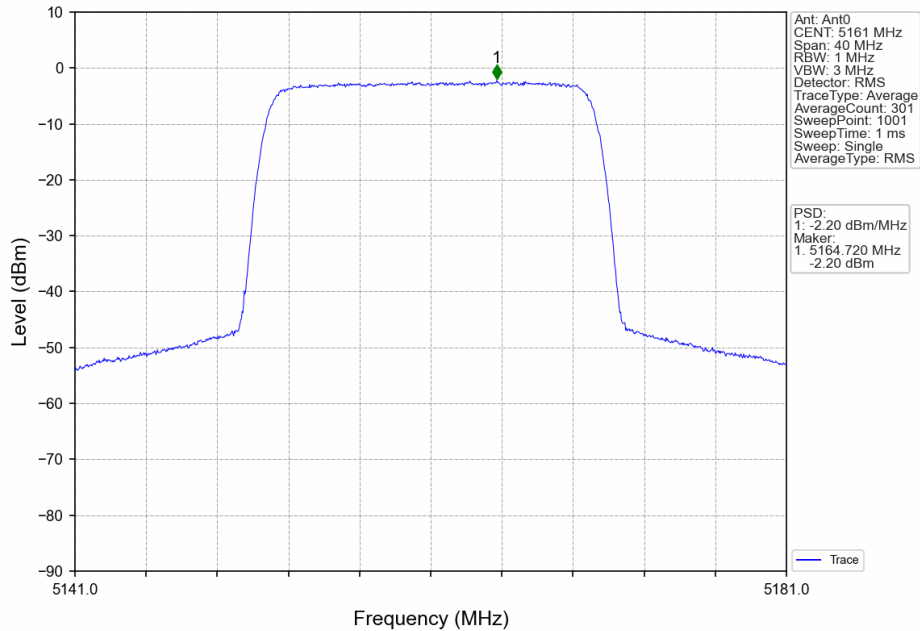
10M_HCH_5245MHz_Ant3_NTNV



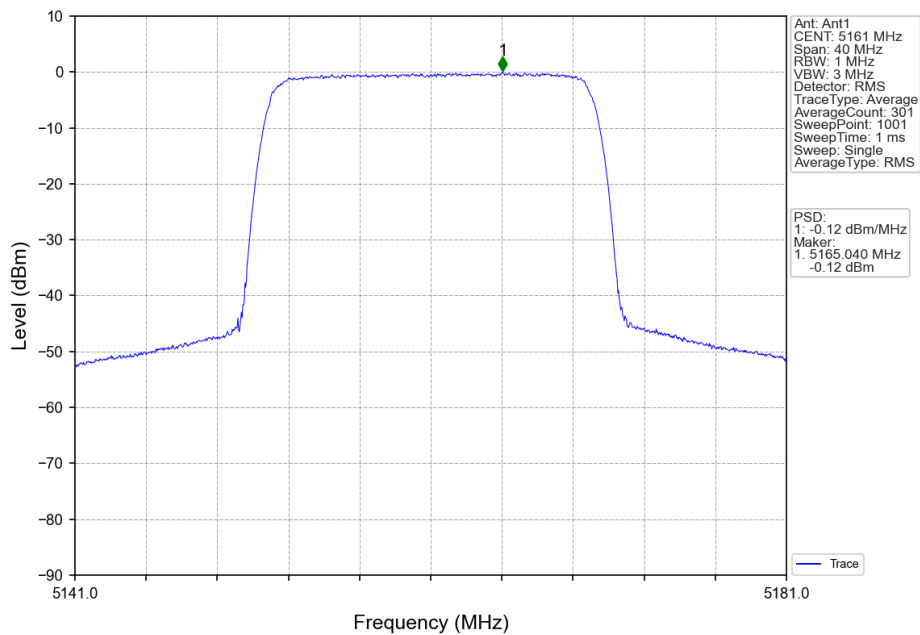
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

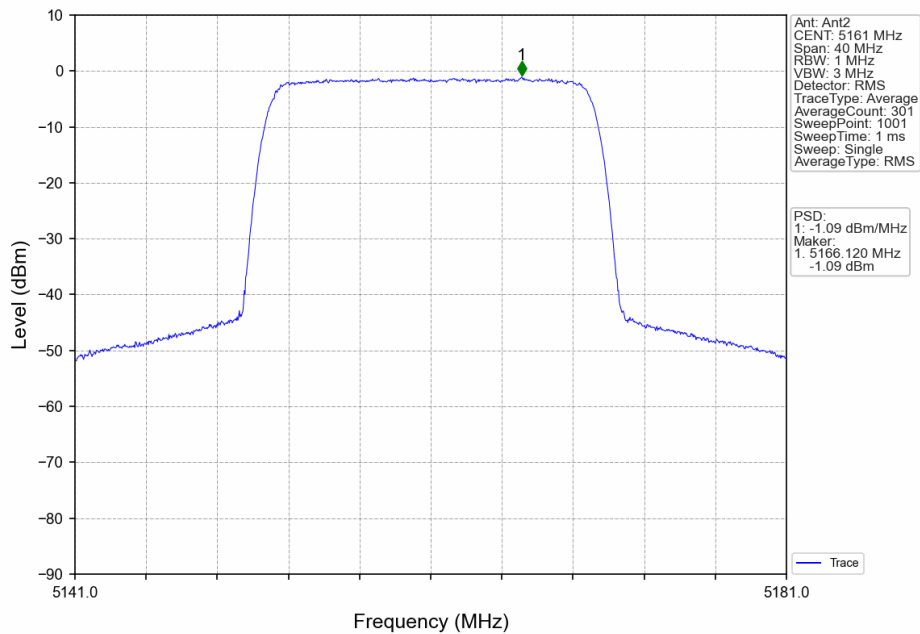
20M_LCH_5161MHz_Ant0_NTNV



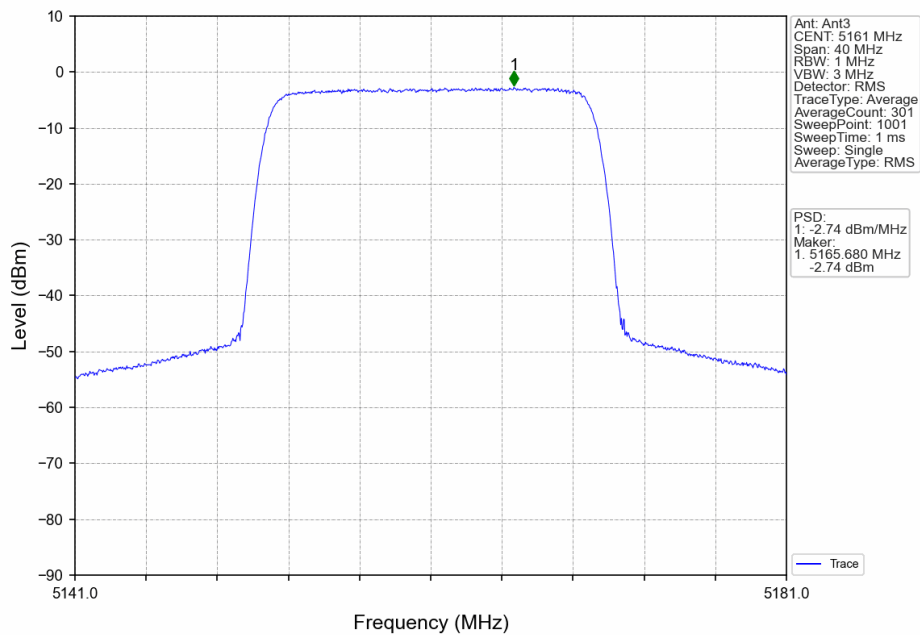
20M_LCH_5161MHz_Ant1_NTNV



20M_LCH_5161MHz_Ant2_NTNV



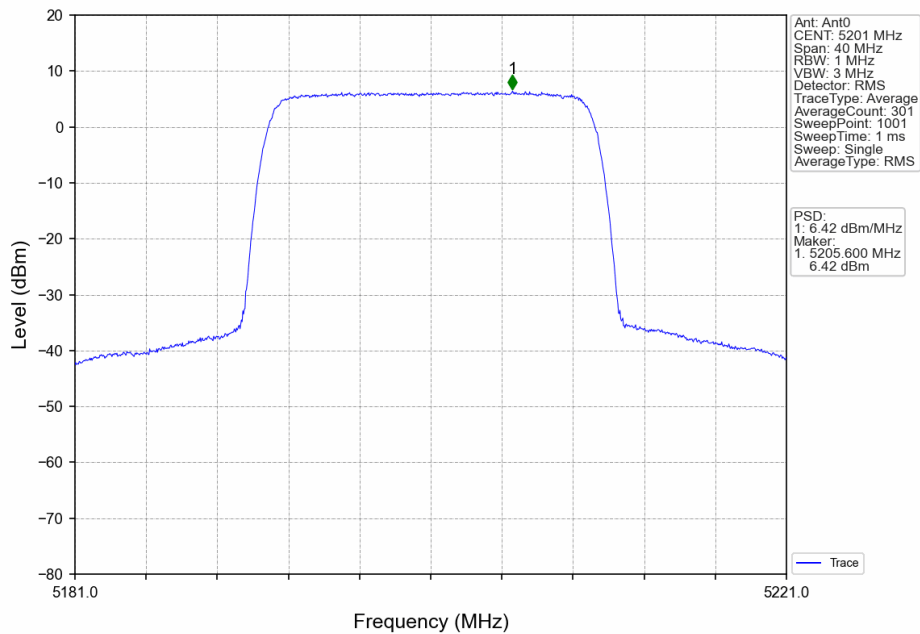
20M_LCH_5161MHz_Ant3_NTNV



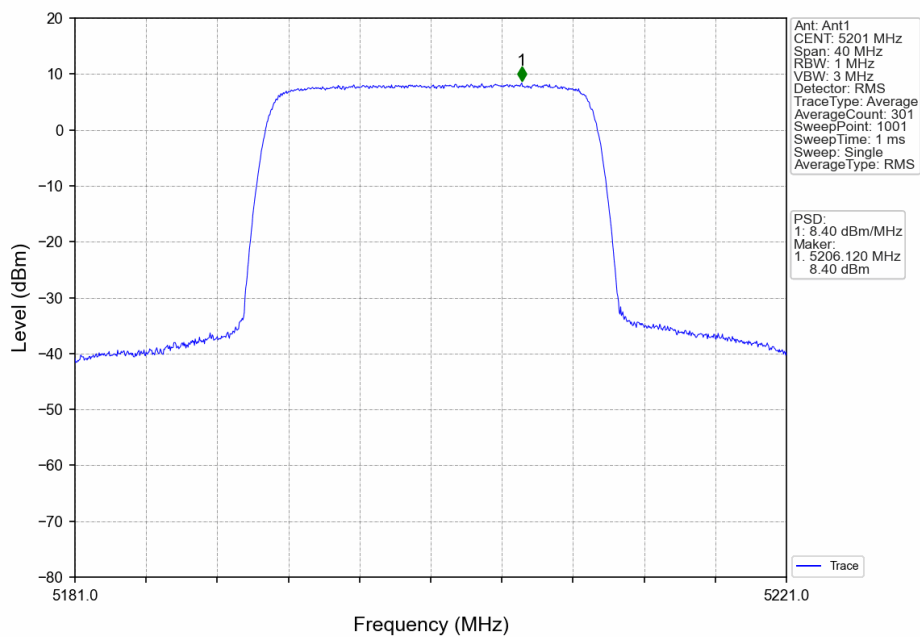
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

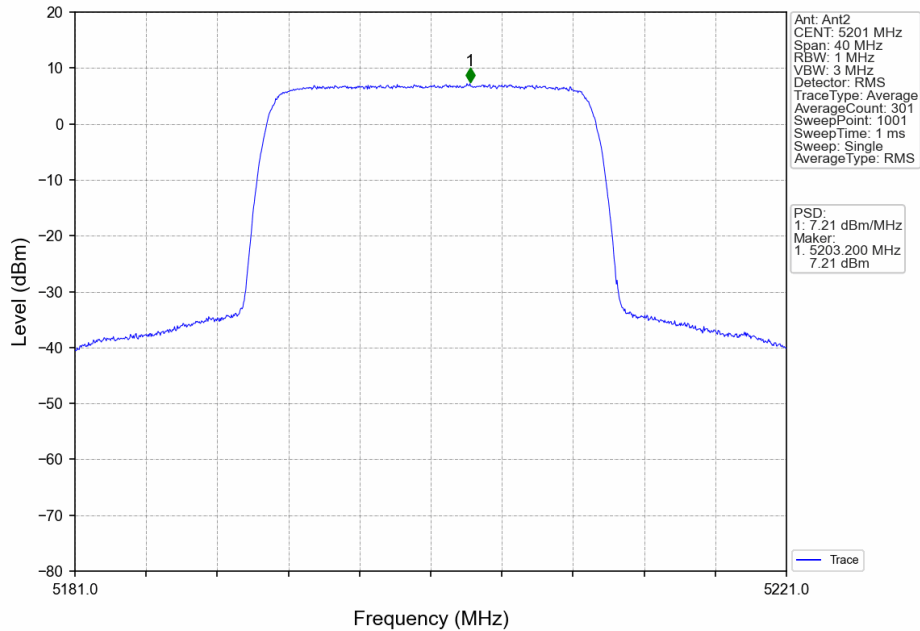
20M_MCH_5201MHz_Ant0_NTNV



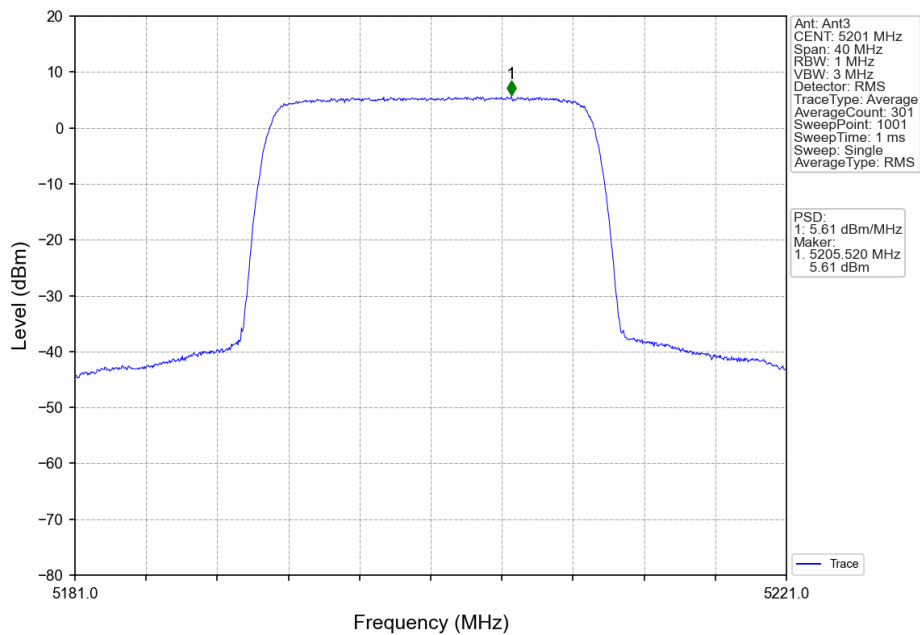
20M_MCH_5201MHz_Ant1_NTNV



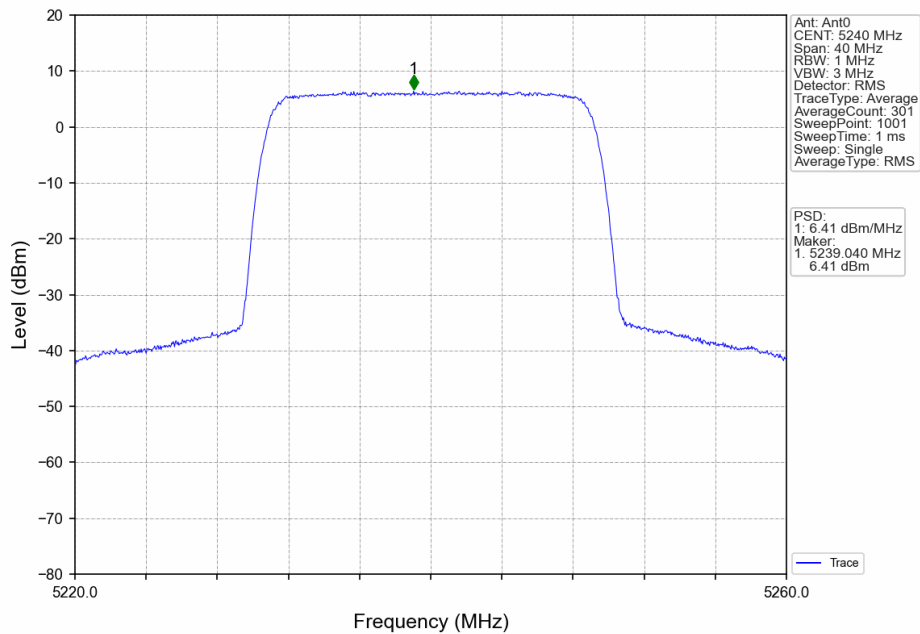
20M_MCH_5201MHz_Ant2_NTNV



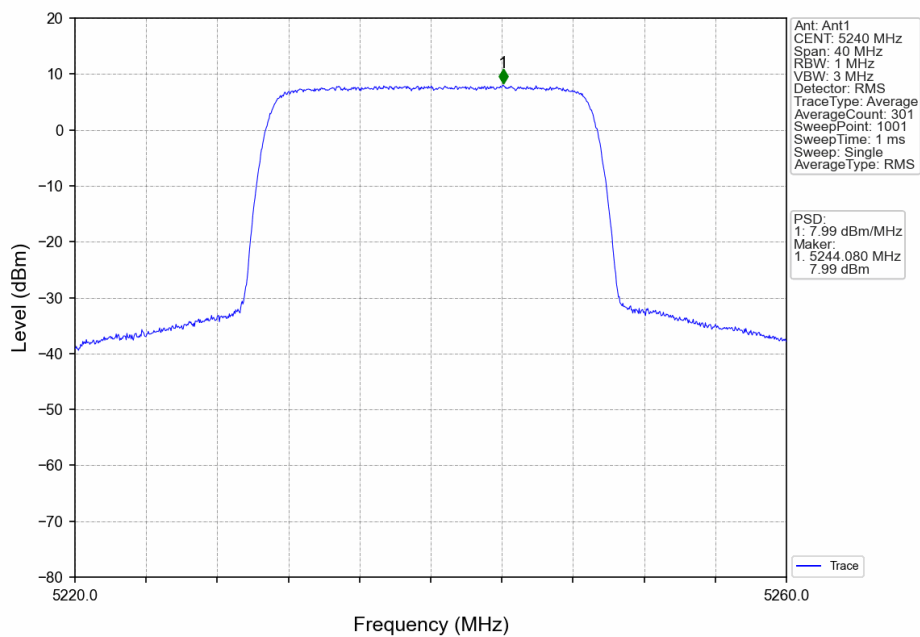
20M_MCH_5201MHz_Ant3_NTNV



20M_HCH_5240MHz_Ant0_NTNV



20M_HCH_5240MHz_Ant1_NTNV



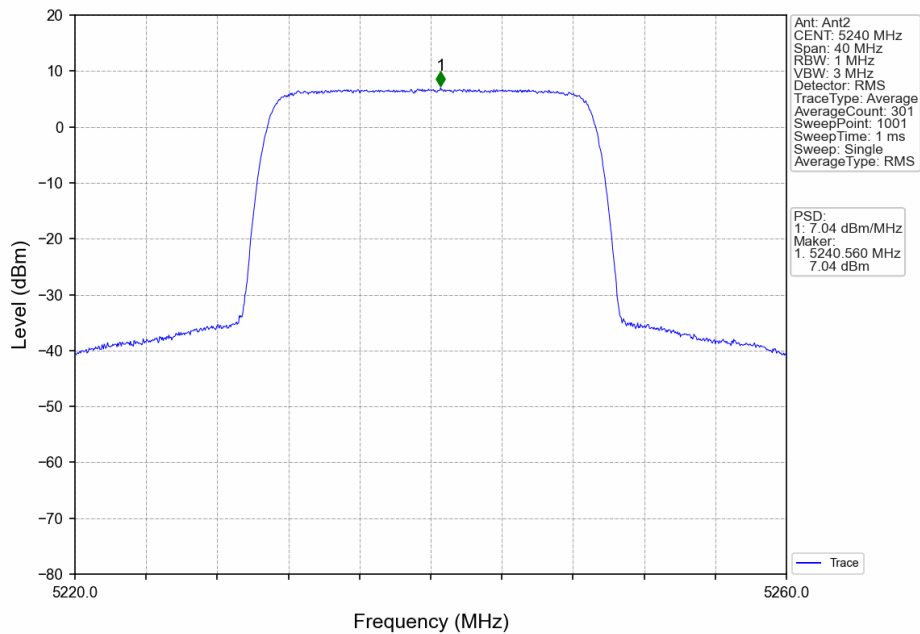
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

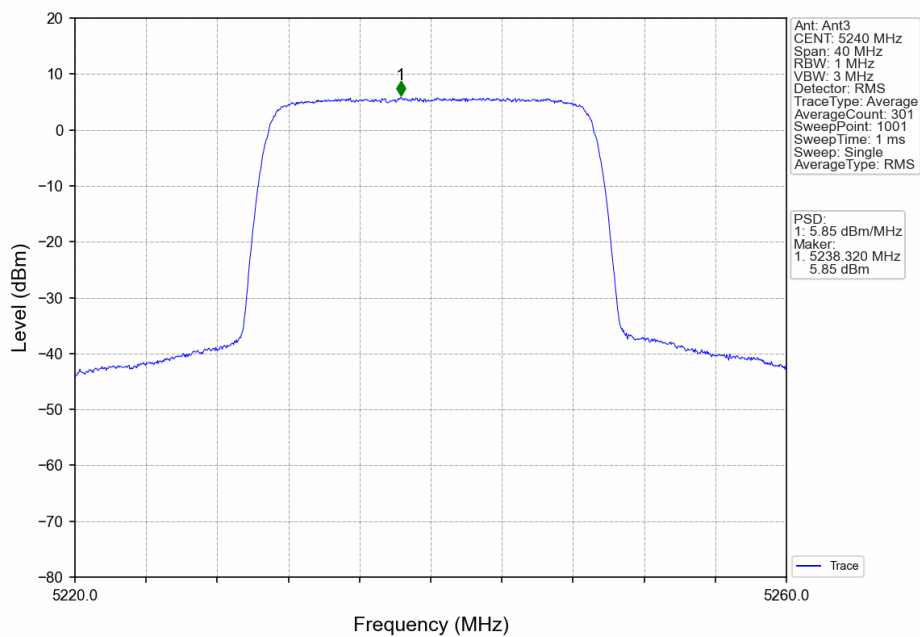
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

20M_HCH_5240MHz_Ant2_NTNV



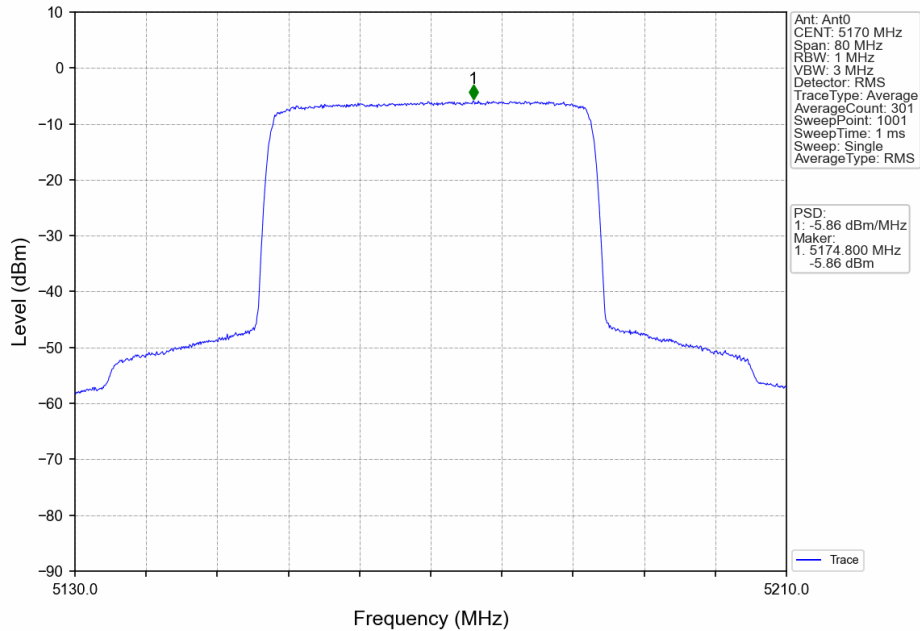
20M_HCH_5240MHz_Ant3_NTNV



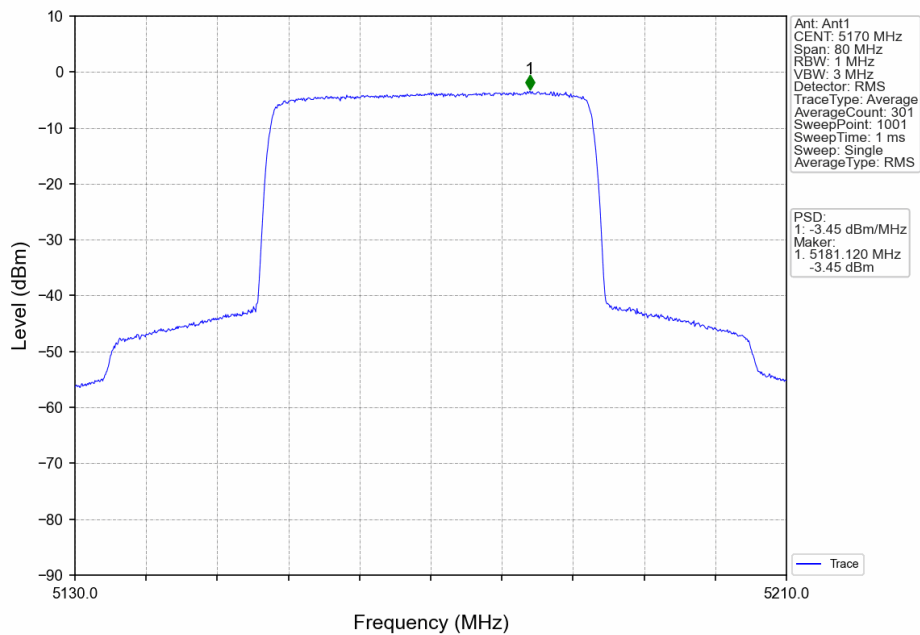
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

40M_LCH_5170MHz_Ant0_NTNV



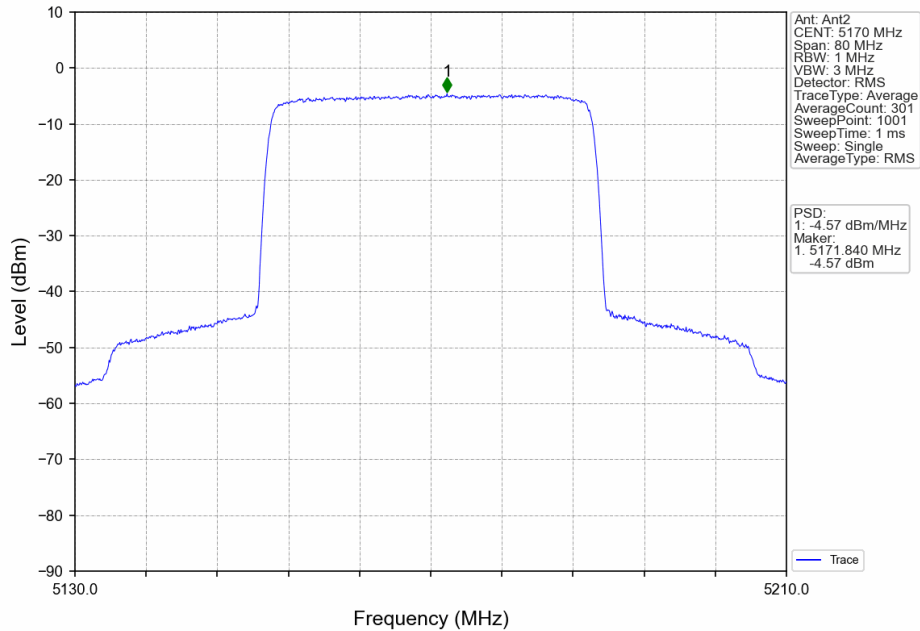
40M_LCH_5170MHz_Ant1_NTNV



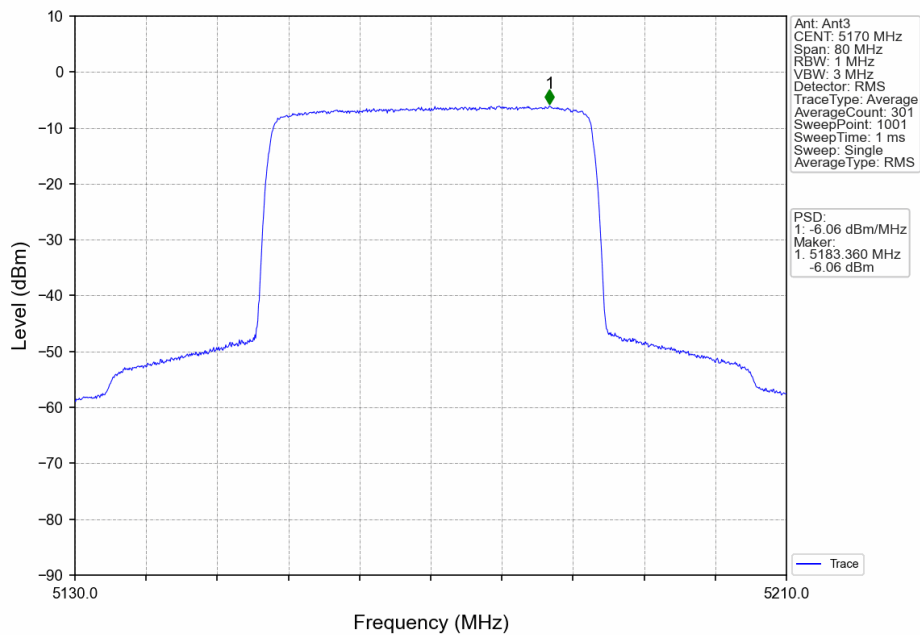
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

40M_LCH_5170MHz_Ant2_NTNV



40M_LCH_5170MHz_Ant3_NTNV



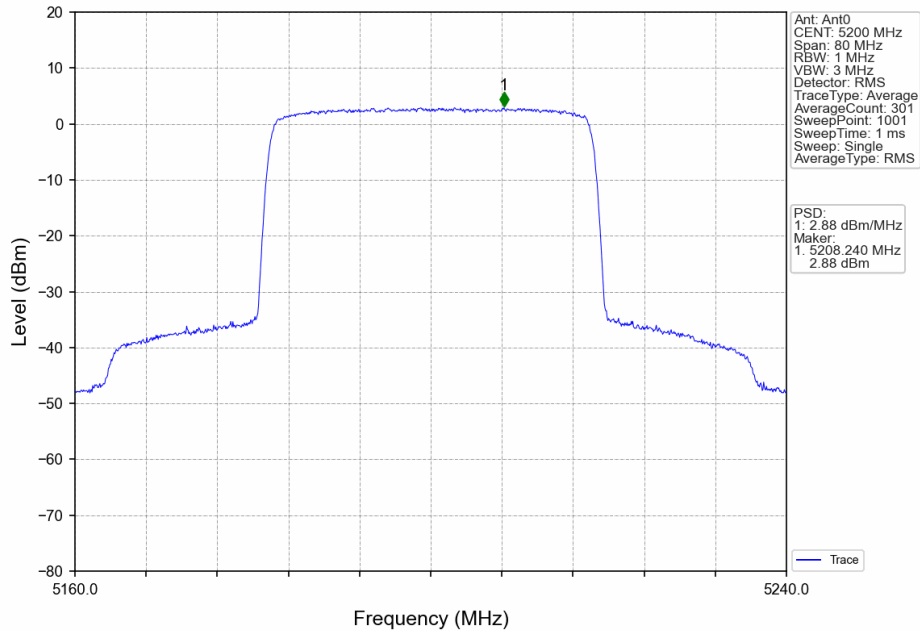
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

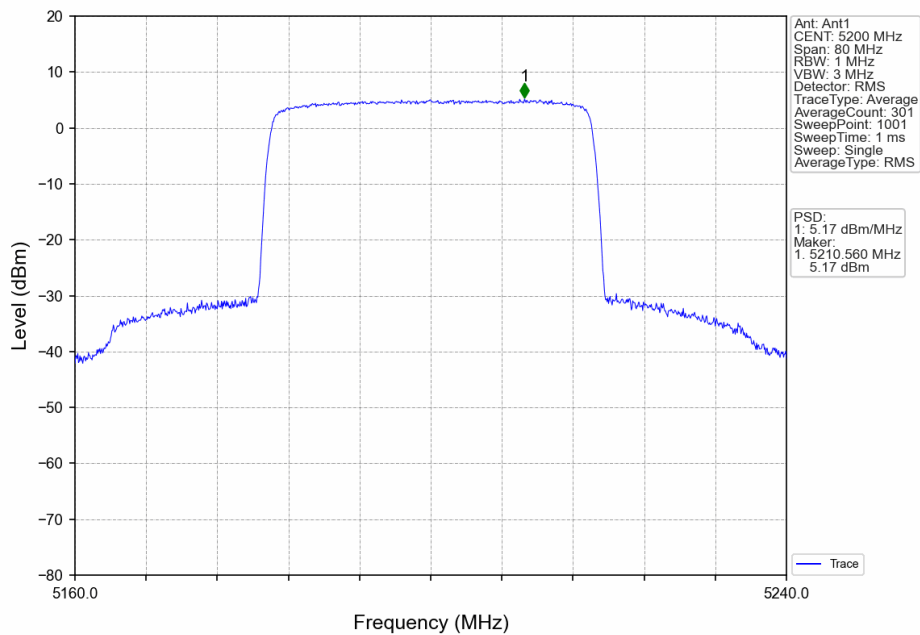
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

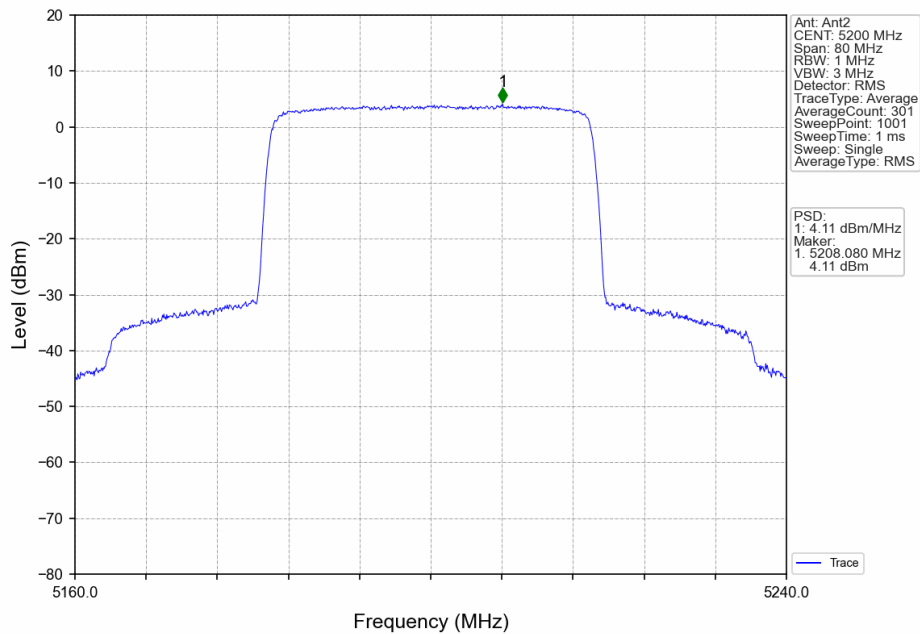
40M_MCH_5200MHz_Ant0_NTNV



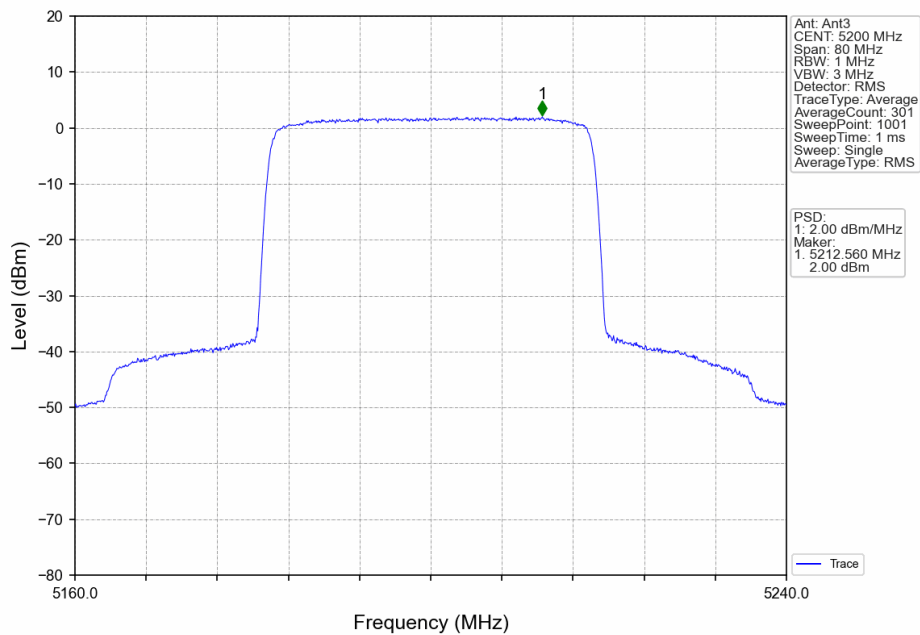
40M_MCH_5200MHz_Ant1_NTNV



40M_MCH_5200MHz_Ant2_NTNV



40M_MCH_5200MHz_Ant3_NTNV



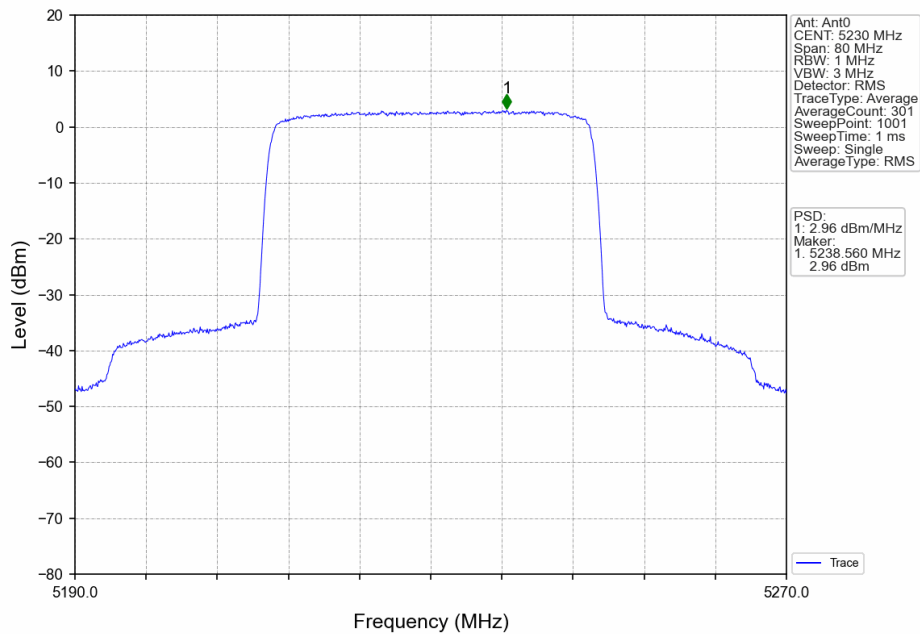
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

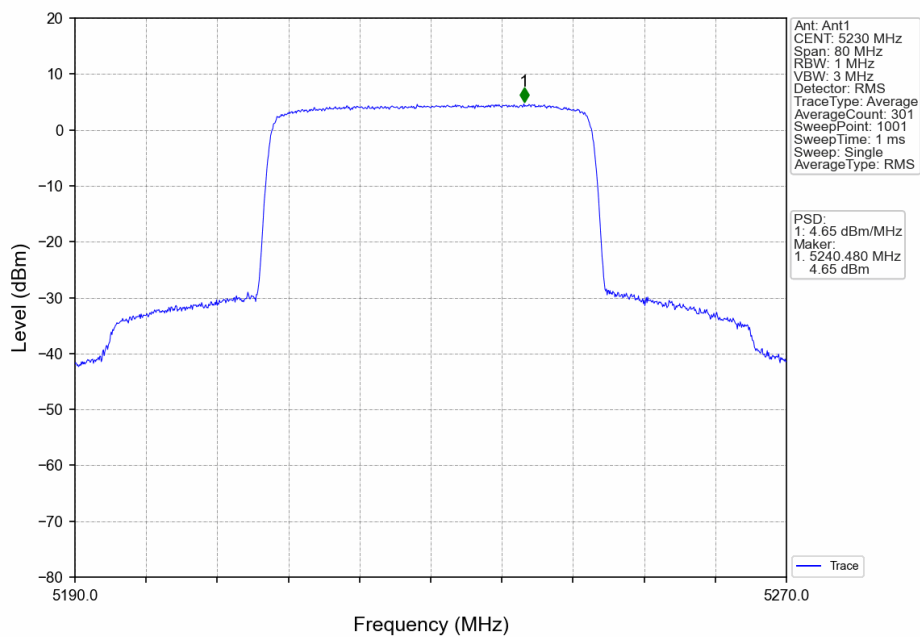
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

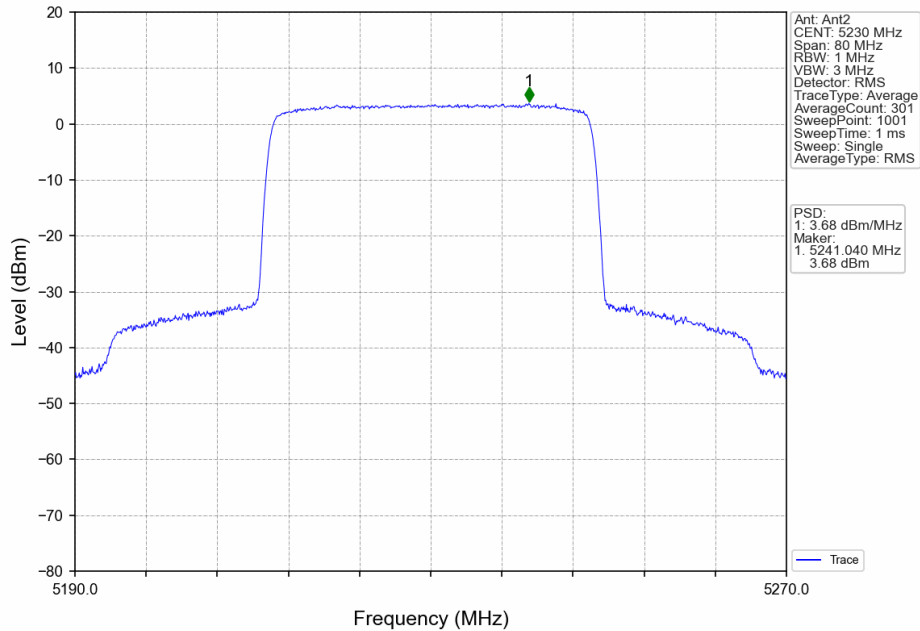
40M_HCH_5230MHz_Ant0_NTNV



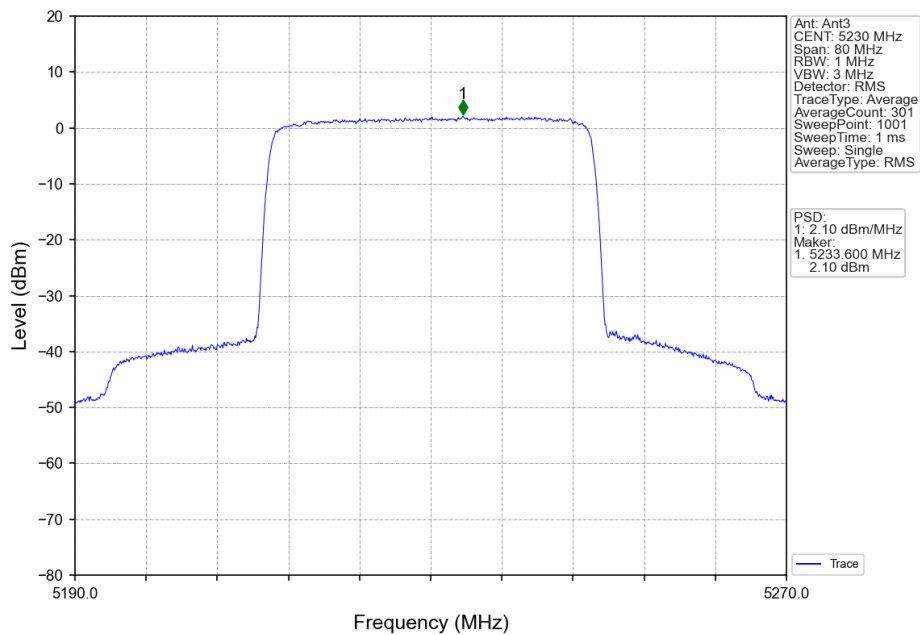
40M_HCH_5230MHz_Ant1_NTNV



40M_HCH_5230MHz_Ant2_NTNV



40M_HCH_5230MHz_Ant3_NTNV



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230900320403

Page: 128 of 287



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com