

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800347606

Page: 1 of 955

TEST REPORT

Application No.: SZCR2508003476TL
Applicant: Grandstream Networks, Inc.
Address of Applicant: 126 Brookline Ave., 3rd Floor, Boston, Massachusetts 02215 United States
Manufacturer: Grandstream Networks, Inc.
Address of Manufacturer: 126 Brookline Ave., 3rd Floor, Boston, Massachusetts 02215 United States
Equipment Under Test (EUT):
EUT Name: High-Performance Tri-Band Wi-Fi 7 Access Point
Model No.: GWN7674
Trade Mark: GRANDSTREAM
FCC ID: YZZGWN7674
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-08-07
Date of Test: 2025-08-12 to 2025-09-28
Date of Issue: 2025-09-30

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

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



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



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800347606

Page: 2 of 955

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-09-30		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/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
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

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 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
In-Band Emissions		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (b)	Pass
Contention-based Protocol		KDB 987594 D02	47 CFR Part 15, Subpart E 15.407 (d)(6)	Pass
Duty Cycle		ANSI C63.10 (2020) Section 12.2	ANSI C63.10 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2020) Section 12.5.3	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2020) Section 12.5.2	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Maximum Conducted output power		ANSI C63.10 (2020) Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass



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	6
4.3 Measurement Uncertainty	7
4.4 Test Location	8
4.5 Test Facility	8
4.6 Deviation from Standards	8
4.7 Abnormalities from Standard Conditions	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement	12
6.1 Antenna Requirement	12
6.1.1 Test Requirement:	12
6.1.2 Conclusion	12
7 Radio Spectrum Matter Test Results	13
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	13
7.1.1 E.U.T. Operation	13
7.1.2 Test Mode Description	13
7.1.3 Test Setup Diagram	14
7.1.4 Measurement Procedure and Data	14
7.2 Radiated Emissions (Below 1GHz)	17
7.2.1 E.U.T. Operation	17
7.2.2 Test Mode Description	17
7.2.3 Test Setup Diagram	17
7.2.4 Measurement Procedure and Data	18
7.3 Radiated Emissions (Above 1GHz)	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	22
7.4 Radiated Emissions which fall in the restricted bands	47
7.4.1 E.U.T. Operation	47
7.4.2 Test Mode Description	47
7.4.3 Test Setup Diagram	47
7.4.4 Measurement Procedure and Data	48
7.5 In-Band Emissions	85
7.5.1 E.U.T. Operation	85



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800347606

Page: 5 of 955

7.5.2	Test Mode Description	85
7.5.3	Test Setup Diagram	86
7.5.4	Measurement Procedure and Data.....	86
7.6	Contention-based Protocol.....	87
7.6.1	E.U.T. Operation	87
7.6.2	Test Mode Description	87
7.6.3	Test Setup Diagram	87
7.6.4	Measurement Procedure and Data.....	87
7.7	Duty Cycle	88
7.7.1	E.U.T. Operation	88
7.7.2	Test Mode Description	88
7.7.3	Test Setup Diagram	88
7.7.4	Measurement Procedure and Data.....	88
7.8	99% Bandwidth	89
7.8.1	E.U.T. Operation	89
7.8.2	Test Mode Description	89
7.8.3	Test Setup Diagram	89
7.8.4	Measurement Procedure and Data.....	89
7.9	26dB Emission bandwidth	90
7.9.1	E.U.T. Operation	90
7.9.2	Test Mode Description	90
7.9.3	Test Setup Diagram	90
7.9.4	Measurement Procedure and Data.....	90
7.10	Maximum Conducted output power	91
7.10.1	E.U.T. Operation.....	91
7.10.2	Test Mode Description.....	91
7.10.3	Test Setup Diagram.....	92
7.10.4	Measurement Procedure and Data	92
7.11	Peak Power spectrum density.....	93
7.11.1	E.U.T. Operation.....	93
7.11.2	Test Mode Description.....	94
7.11.3	Test Setup Diagram.....	94
7.11.4	Measurement Procedure and Data	94
7.12	Frequency Stability.....	95
7.12.1	E.U.T. Operation.....	95
7.12.2	Test Mode Description.....	95
7.12.3	Test Setup Diagram.....	95
7.12.4	Measurement Procedure and Data	95
8	Test Setup Photo	96
9	EUT Constructional Details (EUT Photos)	96
10	Appendix.....	97



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SZEMC) 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 POE DC48V
Cable Loss (for RF conducted test):	1.5dB
Operation Frequency:	IEEE 802.11 a/ax/be: U-NII-5:5925 MHz ~ 6425 MHz IEEE 802.11 a/ax/be: U-NII-6:6425 MHz ~ 6525 MHz IEEE 802.11 a/ax/be: U-NII-7:6525 MHz ~ 6875 MHz IEEE 802.11 a/ax/be: U-NII-8:6875 MHz ~ 7125 MHz
Number of channels:	20MHz bandwidth: 59 40MHz bandwidth: 29 80MHz bandwidth: 14 160MHz bandwidth: 7 320MHz bandwidth: 3
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM); 802.11be: OFDMA with enhancements (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
Channel Spacing:	802.11 a/ax/be 20: 20MHz; 802.11 ax/be 40: 40MHz 802.11 ax/be 80: 80MHz; 802.11 ax/be 160: 160MHz 802.11 be 320: 320MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	ant0: 6.19dBi, ant1:5.88dBi,ant2: 6.37dBi, ant3:5.98dBi
Equipment class:	6ID

Remark:1.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.

2.test data from test software defined ant0 as ant1, ant1 as ant2, ant2 as ant3, ant3 as ant4.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Network Cable	SGS	N/A	REF. No.SEA11A00
Laptop	Lenovo	L480	REF. No.SEA18C01F
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A01
POE Injector	RISUNIC TECHNOLOGY SHENZHEN CO.,LTD.	GP-H480-065G	2308-0130053
POE Injector	Grandstream Network, Inc.	GS-POE60W-MG	112531000003



4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
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);
In-Band Emissions	$\pm 2.84\text{dB}$
Duty Cycle	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
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.



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.: SZCR250800347606

Page: 8 of 955

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.ssgroup.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	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-01-08	2026-01-07
Matching Pad	N/A	N/A	SEM021-23	2025-03-19	2026-03-18
Matching Pad	N/A	N/A	SEM021-24	2025-03-19	2026-03-18
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-08-30 2025-08-29	2025-08-29 2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-11 2025-09-10	2025-09-10 2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-22	2027-07-21



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

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800347606

Page: 10 of 955

Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20
---------------	--	-------------	-----------	------------	------------

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	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-11 2025-09-10	2025-09-10 2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04

In-Band Emissions

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-11 2025-09-10	2025-09-10 2026-09-09
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25

Contention-based Protocol

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2025-05-16	2028-05-15
EXA Signal Analyzer	KEYSIGHT	N9010A	SEM004-09	2025-03-03	2026-03-02
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2025-07-24	2026-07-23
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2025-02-26	2026-02-25
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2025-03-03	2026-03-02
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2025-03-03	2026-03-02
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03



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

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800347606

Page: 11 of 955

Power Sensor	TST PASS	TSPS2023R	SEM009-27	2025-03-04	2026-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-28	2025-03-04	2026-03-03
Power Sensor	TST PASS	TSPS2023R	SEM009-29	2025-03-04	2026-03-03
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Universal Radio Communication Tester	Rohde&Schwarz	CMW500	SEM010-08	2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2025-07-05	2026-07-04

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9010B	SEM004-27	2024-09-11 2025-09-10	2025-09-10 2026-09-09
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-11 2025-09-10	2025-09-10 2026-09-09
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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.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:

Measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna are ant0: 6.19dBi, ant1:5.88dBi, ant2: 6.37dBi, ant3:5.98dBi, directional gain:6.37dBi

Antenna location: Refer to internal photos.



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 (2020) 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: 25.3 °C

Humidity: 40.5 % RH

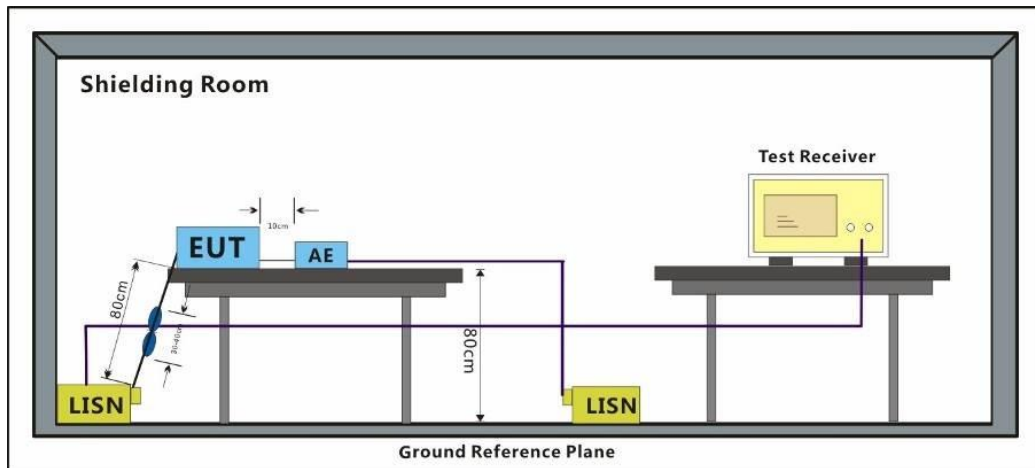
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	09	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark 1: Level=Read Level+ Cable Loss+ LISN Factor

Remark 2: Pre-test AC 120V/50-60Hz&AC 240V/50-60Hz then choose the AC 120/60Hz as worst case.



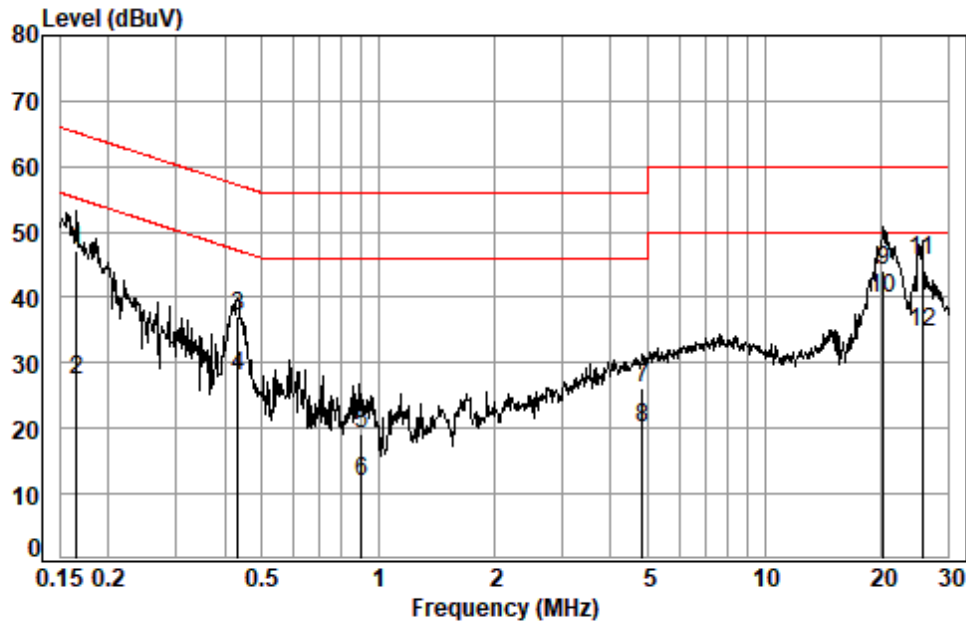
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800347606

Page: 15 of 955

Test Mode: 08; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03476TL/03477TL
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1659	0.06	10.17	36.77	47.00	65.16	-18.16	QP
2	0.1659	0.06	10.17	17.24	27.47	55.16	-27.69	Average
3	0.4328	0.09	9.63	27.31	37.03	57.20	-20.17	QP
4	0.4328	0.09	9.63	18.15	27.87	47.20	-19.33	Average
5	0.9039	0.11	9.60	9.33	19.04	56.00	-36.96	QP
6	0.9039	0.11	9.60	2.09	11.80	46.00	-34.20	Average
7	4.8224	0.14	9.66	16.50	26.30	56.00	-29.70	QP
8	4.8224	0.14	9.66	10.41	20.21	46.00	-25.79	Average
9	20.2696	0.18	10.18	33.75	44.11	60.00	-15.89	QP
10 *	20.2696	0.18	10.18	29.41	39.77	50.00	-10.23	Average
11 *	25.5912	0.25	10.32	34.99	45.56	60.00	-14.44	QP
12	25.5912	0.25	10.32	24.23	34.80	50.00	-15.20	Average



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

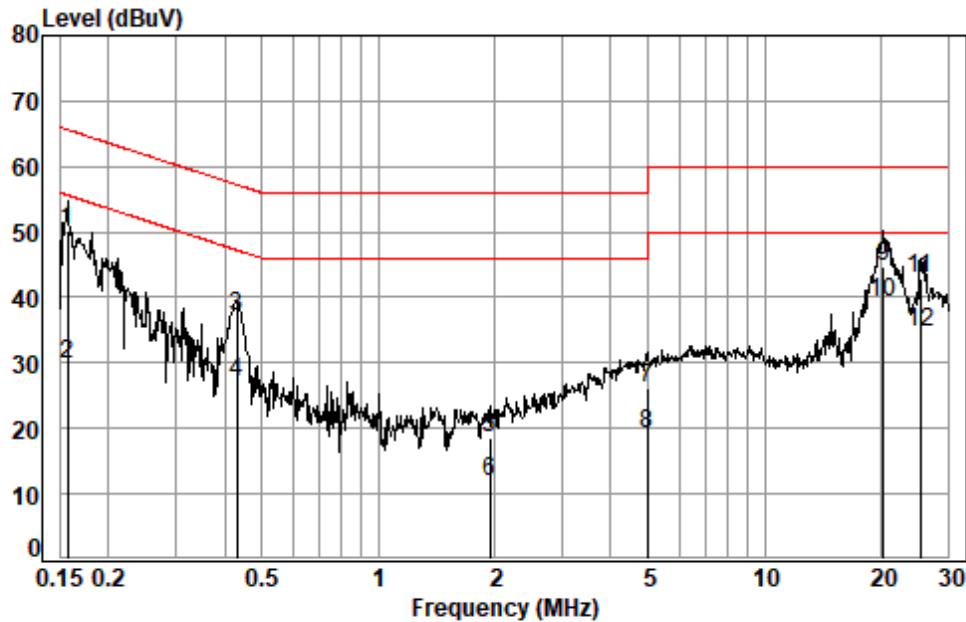
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800347606

Page: 16 of 955

Test Mode: 08; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03476TL/03477TL
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.06	10.14	40.08	50.28	65.60	-15.32	QP
2	0.1573	0.06	10.14	19.74	29.94	55.60	-25.66	Average
3	0.4305	0.09	9.73	27.22	37.04	57.24	-20.20	QP
4	0.4305	0.09	9.73	17.20	27.02	47.24	-20.22	Average
5	1.9489	0.12	9.55	8.85	18.52	56.00	-37.48	QP
6	1.9489	0.12	9.55	2.11	11.78	46.00	-34.22	Average
7	4.9782	0.14	9.56	16.49	26.19	56.00	-29.81	QP
8	4.9782	0.14	9.56	9.61	19.31	46.00	-26.69	Average
9 *	20.2696	0.18	10.17	34.37	44.72	60.00	-15.28	QP
10 *	20.2696	0.18	10.17	28.83	39.18	50.00	-10.82	Average
11	25.3214	0.25	10.45	32.27	42.97	60.00	-17.03	QP
12	25.3214	0.25	10.45	23.85	34.55	50.00	-15.45	Average



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

7.2 Radiated Emissions (Below 1GHz)

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

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

Measurement Distance: 3m

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C

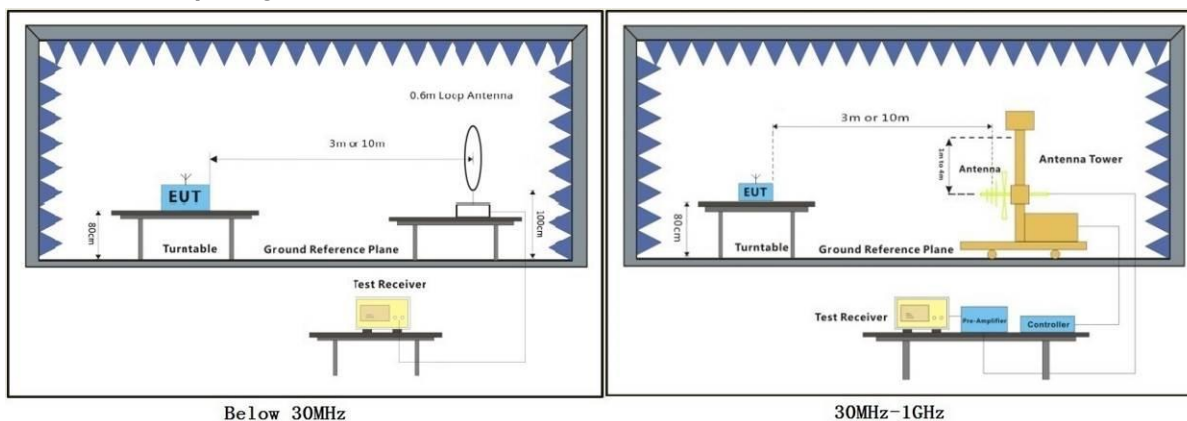
Humidity: 42.5 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	09	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	11	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

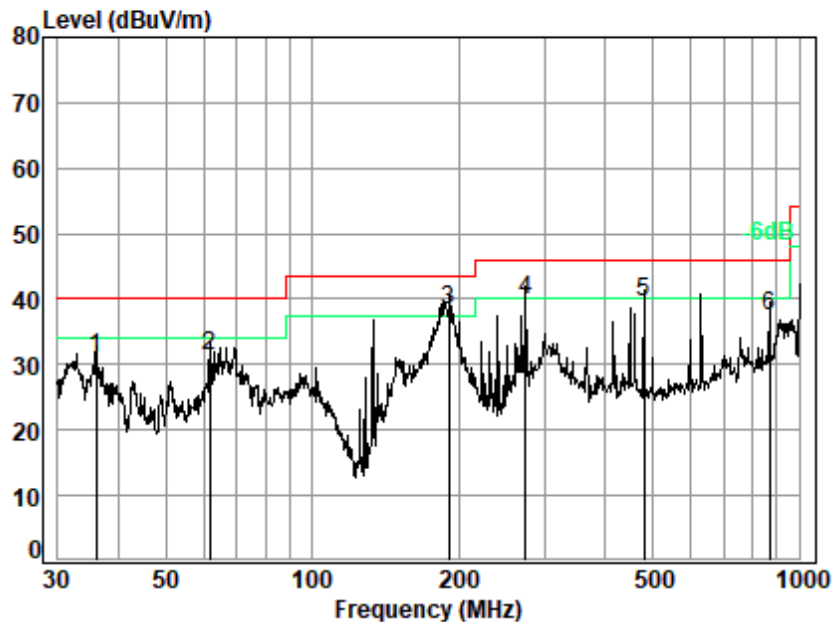
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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 lowest channel of 802.11a. 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.



Test Mode: 08; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

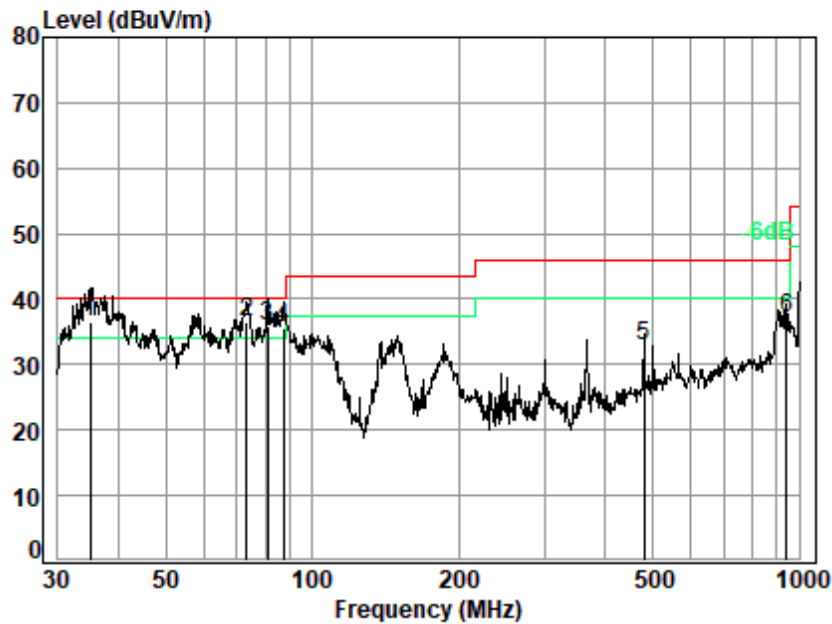
Job No. : 03476TL

Test Mode: 08

	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	36.001	18.31	0.79	27.64	39.42	30.88	40.00	-9.12 QP
2	61.562	11.31	0.93	27.62	46.80	31.42	40.00	-8.58 QP
3 q	191.074	14.28	1.67	27.79	50.17	38.33	43.50	-5.17 QP
4	274.194	17.07	2.02	27.57	48.44	39.96	46.00	-6.04 QP
5	480.528	22.75	2.75	27.91	41.92	39.51	46.00	-6.49 QP
6	869.130	27.65	3.89	27.15	33.02	37.41	46.00	-8.59 QP



Test Mode: 08; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03476TL
Test Mode: 08

		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	q	35.005	18.88	0.78	27.65	44.62	36.63	40.00	-3.37 QP
2		73.359	10.42	1.02	27.61	52.70	36.53	40.00	-3.47 QP
3		80.927	10.52	1.11	27.61	51.99	36.01	40.00	-3.99 QP
4		87.112	11.33	1.16	27.61	50.80	35.68	40.00	-4.32 QP
5		480.528	22.75	2.75	27.91	35.12	32.71	46.00	-13.29 QP
6		942.131	28.19	4.06	26.72	31.72	37.25	46.00	-8.75 QP



7.3 Radiated Emissions (Above 1GHz)

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

Test Method: ANSI C63.10 (2020) Section 6.6

Measurement Distance: 3m

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

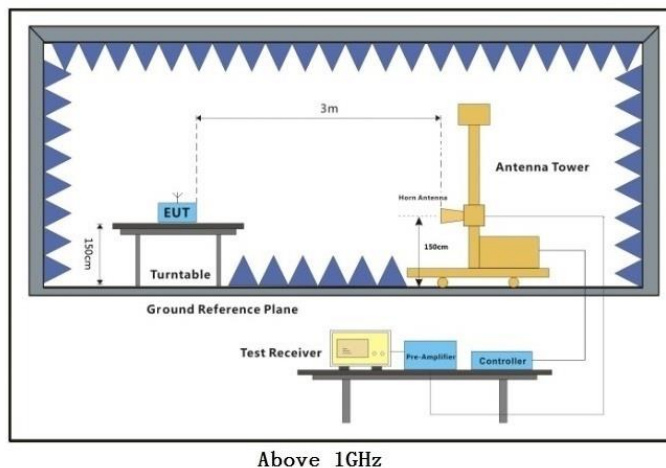
Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

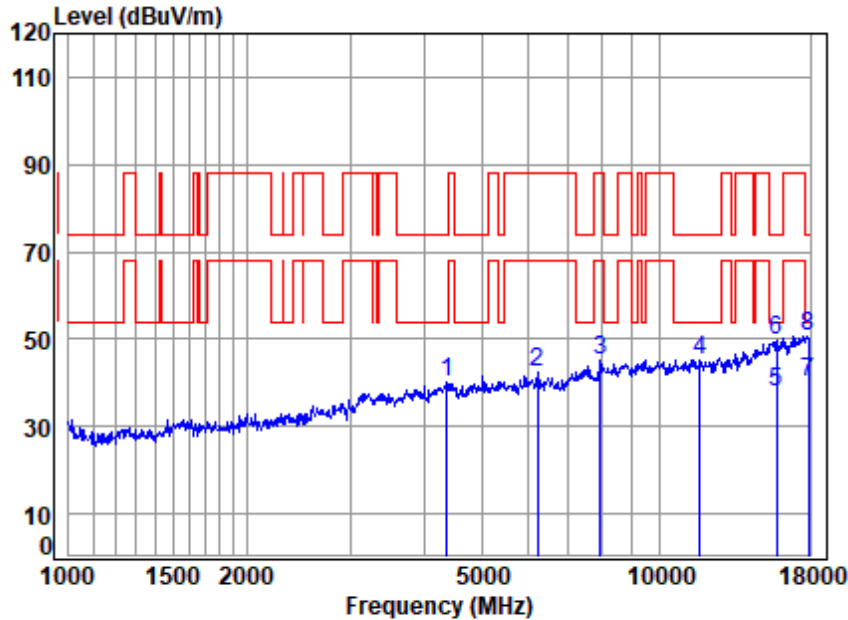
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



Test Mode: 08; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low

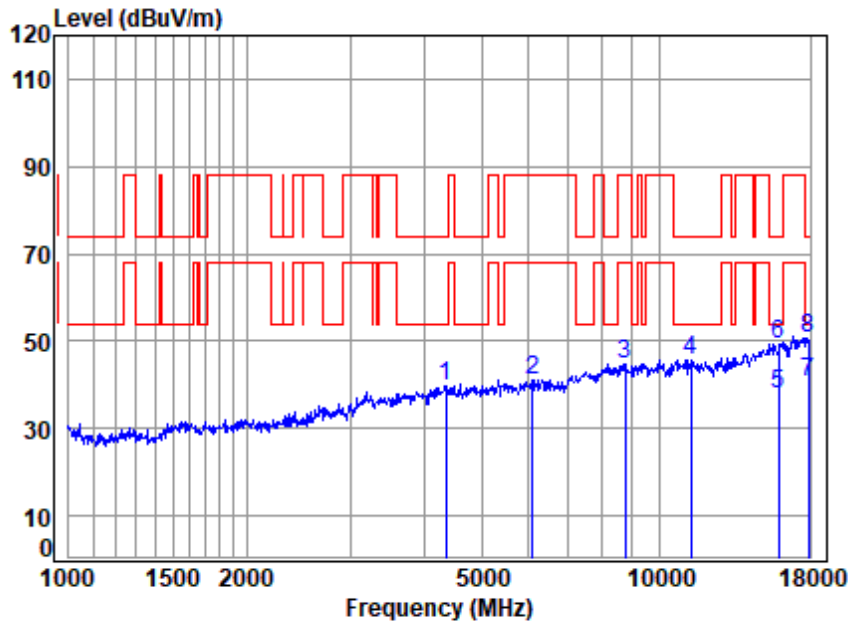


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 5955 TX RSE
Note : WIFI 11AX20

		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	4367.058	5.02	34.54	54.26	54.89	40.19	74.00	-33.81 peak
2	6213.441	6.29	34.75	53.12	54.34	42.26	88.20	-45.94 Peak
3	7943.838	6.46	36.41	53.11	55.29	45.05	88.20	-43.15 peak
4	11735.250	8.35	37.90	53.15	52.20	45.30	74.00	-28.70 Peak
5	15804.660	9.52	41.30	51.95	38.84	37.71	54.00	-16.29 Average
6	15804.660	9.52	41.30	51.95	50.74	49.61	74.00	-24.39 Peak
7	q17865.000	10.17	43.90	52.47	38.66	40.26	54.00	-13.74 Average
8	p17865.000	10.17	43.90	52.47	49.25	50.85	74.00	-23.15 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

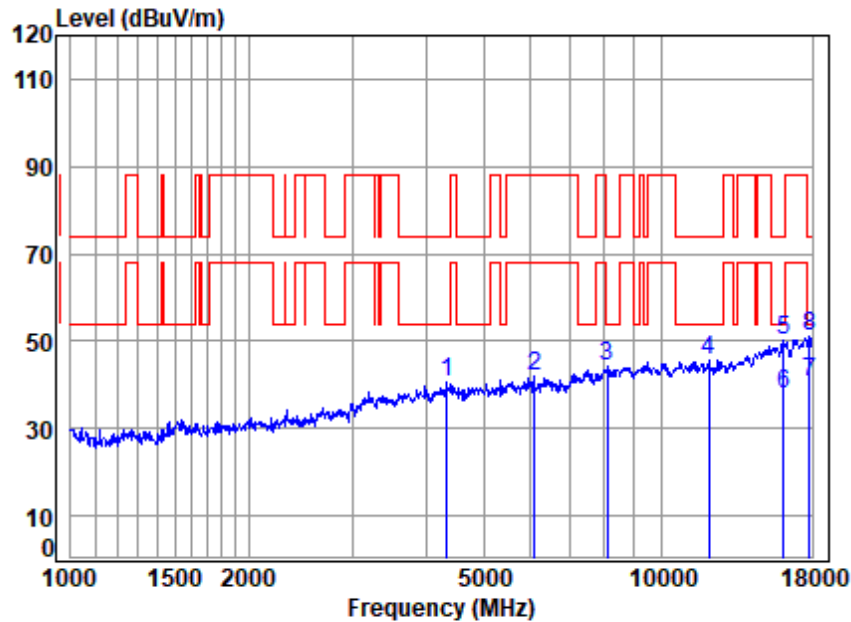


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 5955 TX RSE
Note : WIFI 11AX20

		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	4354.454	5.00	34.44	54.26	54.72	39.90	74.00	-34.10 peak
2	6088.991	6.27	35.08	53.11	52.97	41.21	88.20	-46.99 Peak
3	8738.852	7.07	36.90	53.47	54.42	44.92	88.20	-43.28 peak
4	11302.480	8.17	37.80	53.06	52.91	45.82	74.00	-28.18 Peak
5	15942.300	9.56	41.48	51.84	38.57	37.77	54.00	-16.23 Average
6	15942.300	9.56	41.48	51.84	50.10	49.30	74.00	-24.70 Peak
7	q17865.000	10.17	43.90	52.47	38.96	40.56	54.00	-13.44 Average
8	p17865.000	10.17	43.90	52.47	49.24	50.84	74.00	-23.16 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

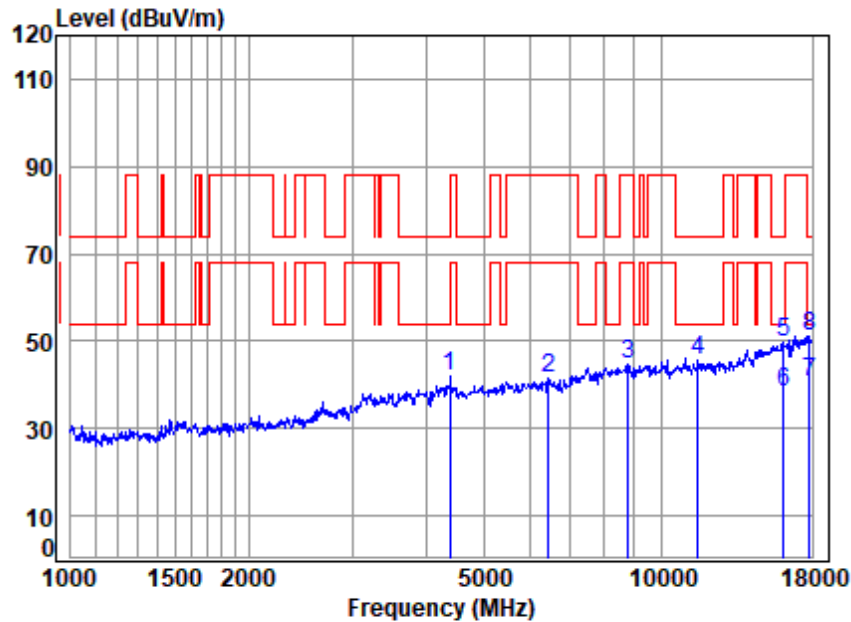


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6175 TX RSE
Note : WIFI 11AX20

		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	4341.886	4.99	34.34	54.26	55.58	40.65	74.00	-33.35 peak
2	6088.991	6.27	35.08	53.11	53.59	41.83	88.20	-46.37 Peak
3	8106.200	6.60	36.50	53.16	54.23	44.17	74.00	-29.83 peak
4	12044.520	8.41	37.76	53.20	52.65	45.62	74.00	-28.38 Peak
5	16127.690	9.56	41.73	51.94	50.74	50.09	74.00	-23.91 Peak
6	16127.690	9.56	41.73	51.94	38.71	38.06	54.00	-15.94 Average
7	q17844.590	10.17	43.90	52.48	38.95	40.54	54.00	-13.46 Average
8	p17844.590	10.17	43.90	52.48	49.54	51.13	74.00	-22.87 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

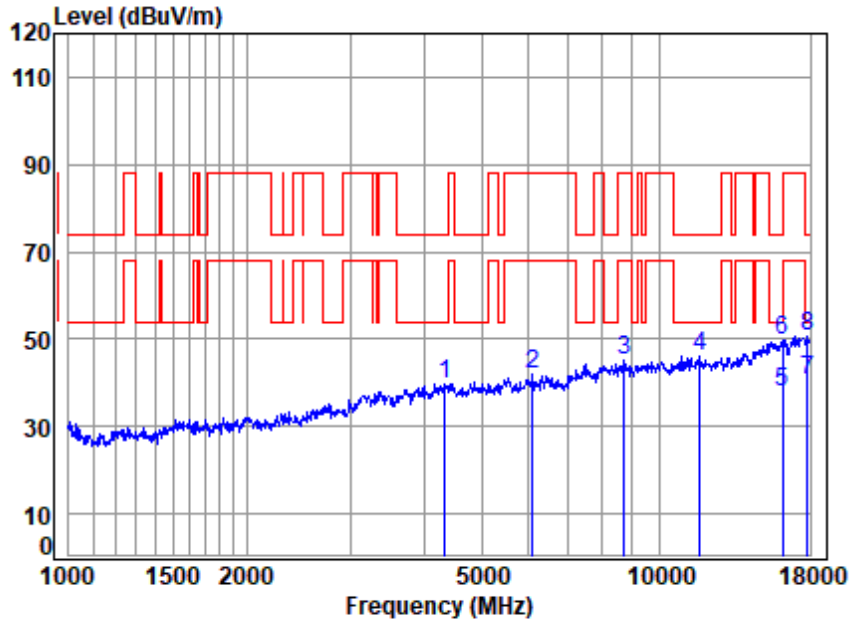


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6175 TX RSE
Note : WIFI 11AX20

		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	4392.376	5.04	34.74	54.26	56.25	41.77	74.00	-32.23 peak
2	6451.353	6.34	35.50	53.15	52.61	41.30	88.20	-46.90 Peak
3	8789.516	7.09	37.06	53.50	54.06	44.71	88.20	-43.49 peak
4	11533.480	8.32	37.77	53.11	52.84	45.82	74.00	-28.18 Peak
5	16127.690	9.56	41.73	51.94	50.52	49.87	74.00	-24.13 Peak
6	16127.690	9.56	41.73	51.94	38.98	38.33	54.00	-15.67 Average
7	q17844.590	10.17	43.90	52.48	39.15	40.74	54.00	-13.26 Average
8	p17844.590	10.17	43.90	52.48	49.67	51.26	74.00	-22.74 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

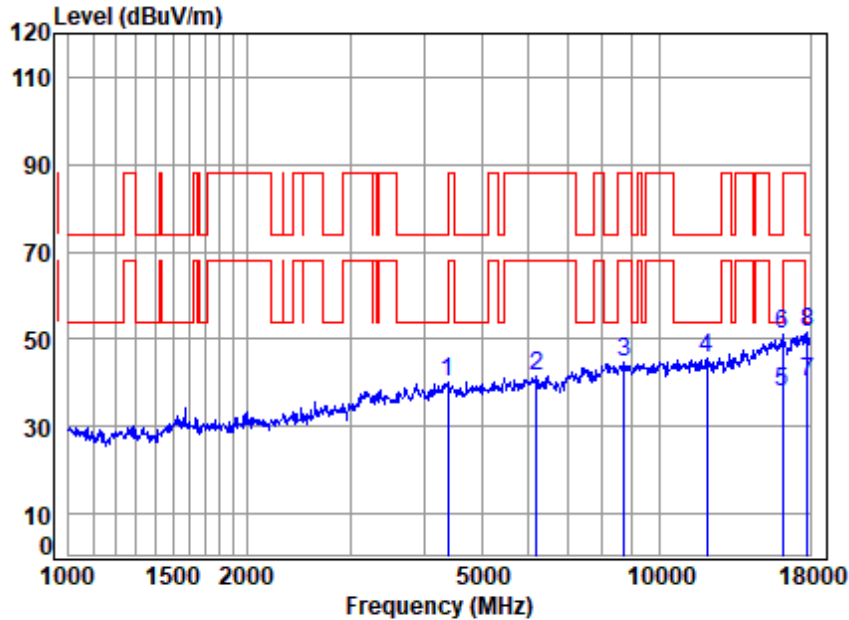


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6395 TX RSE
Note : WIFI 11AX20

		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	4341.886	4.99	34.34	54.26	54.84	39.91	74.00	-34.09 peak
2	6106.616	6.27	35.07	53.11	53.55	41.78	88.20	-46.42 Peak
3	8713.630	7.06	36.90	53.46	54.52	45.02	88.20	-43.18 peak
4	11735.250	8.35	37.90	53.15	52.82	45.92	74.00	-28.08 Peak
5	16174.370	9.56	41.77	52.00	38.58	37.91	54.00	-16.09 Average
6	16174.370	9.56	41.77	52.00	50.18	49.51	74.00	-24.49 Peak
7	q17793.090	10.19	43.89	52.50	38.88	40.46	54.00	-13.54 Average
8	p17793.090	10.19	43.89	52.50	48.93	50.51	74.00	-23.49 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

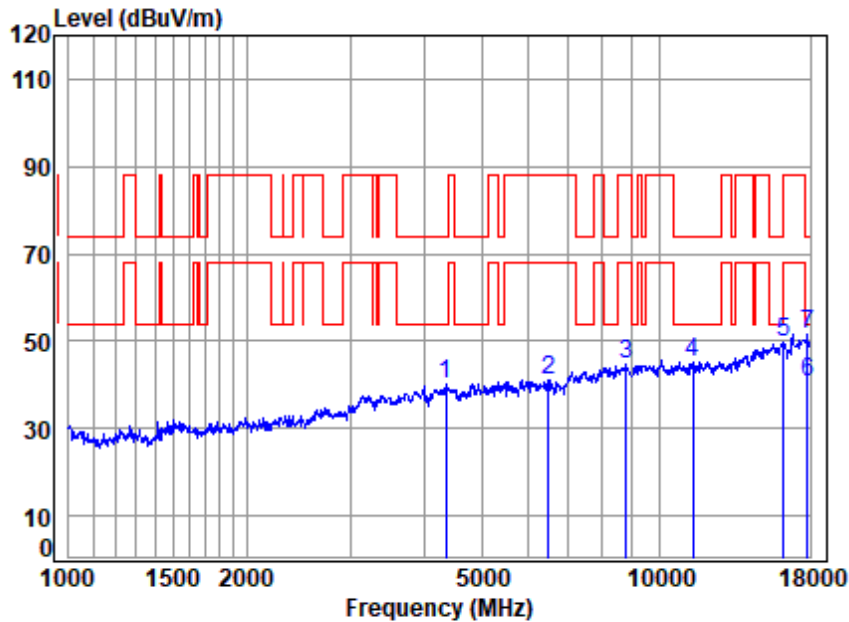


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6395 TX RSE
Note : WIFI 11AX20

		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	4379.699	5.03	34.64	54.26	54.97	40.38	74.00	-33.62 peak
2	6195.508	6.29	34.72	53.12	53.79	41.68	88.20	-46.52 Peak
3	8713.630	7.06	36.90	53.46	54.11	44.61	88.20	-43.59 peak
4	12044.520	8.41	37.76	53.20	52.51	45.48	74.00	-28.52 Peak
5	16174.370	9.56	41.77	52.00	38.70	38.03	54.00	-15.97 Average
6	16174.370	9.56	41.77	52.00	51.62	50.95	74.00	-23.05 Peak
7	q17844.590	10.17	43.90	52.48	38.77	40.36	54.00	-13.64 Average
8	p17844.590	10.17	43.90	52.48	49.92	51.51	74.00	-22.49 peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low

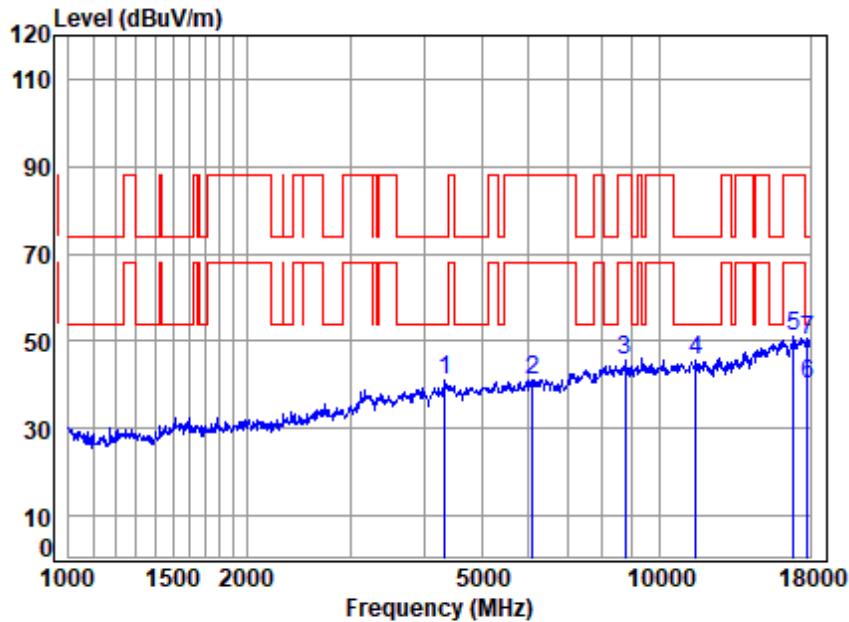


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6435 TX RSE
Note : WIFI 11AX20

		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	4354.454	5.00	34.44	54.26	55.15	40.33	74.00	-33.67 peak
2	6488.754	6.35	35.58	53.15	52.38	41.16	88.20	-47.04 Peak
3	8789.516	7.09	37.06	53.50	54.27	44.92	88.20	-43.28 peak
4	11400.910	8.24	37.70	53.08	52.42	45.28	74.00	-28.72 Peak
5	16221.190	9.56	41.84	52.05	50.27	49.62	88.20	-38.58 Peak
6	q17793.090	10.19	43.89	52.50	38.84	40.42	54.00	-13.58 Average
7	p17793.090	10.19	43.89	52.50	50.02	51.60	74.00	-22.40 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

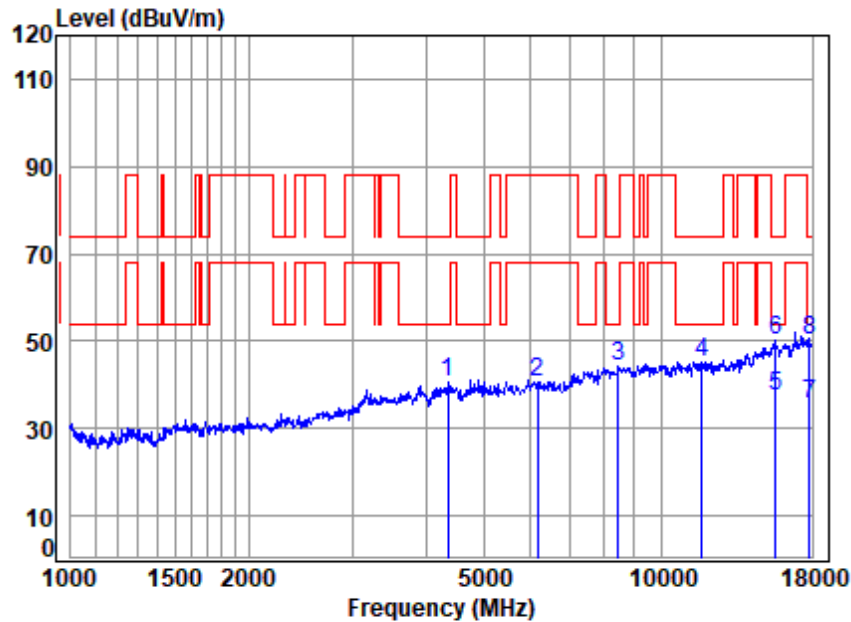


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6435 TX RSE
Note : WIFI 11AX20

		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	4341.886	4.99	34.34	54.26	55.78	40.85	74.00	-33.15 peak
2	6106.616	6.27	35.07	53.11	53.04	41.27	88.20	-46.93 Peak
3	8764.146	7.08	36.96	53.49	55.02	45.57	88.20	-42.63 peak
4	11533.480	8.32	37.77	53.11	52.54	45.52	74.00	-28.48 Peak
5	16891.040	10.09	43.17	52.78	50.44	50.92	88.20	-37.28 Peak
6	q17793.090	10.19	43.89	52.50	38.59	40.17	54.00	-13.83 Average
7	p17793.090	10.19	43.89	52.50	48.81	50.39	74.00	-23.61 peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

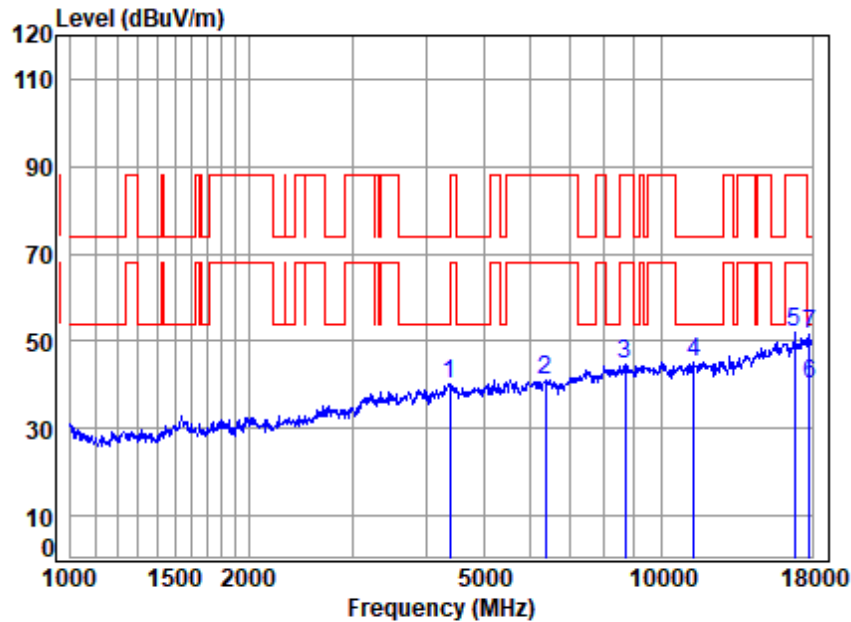


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6475 TX RSE
Note : WIFI 11AX20

		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	4354.454	5.00	34.44	54.26	55.29	40.47	74.00	-33.53 peak
2	6159.797	6.28	34.86	53.12	52.61	40.63	88.20	-47.57 Peak
3	8440.945	6.91	36.62	53.33	54.01	44.21	74.00	-29.79 peak
4	11735.250	8.35	37.90	53.15	52.27	45.37	74.00	-28.63 Peak
5	q15622.990	9.47	41.12	52.10	38.78	37.27	54.00	-16.73 Average
6	15622.990	9.47	41.12	52.10	51.59	50.08	74.00	-23.92 Peak
7	17793.090	10.19	43.89	52.50	33.89	35.47	54.00	-18.53 Average
8	p17793.090	10.19	43.89	52.50	48.80	50.38	74.00	-23.62 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

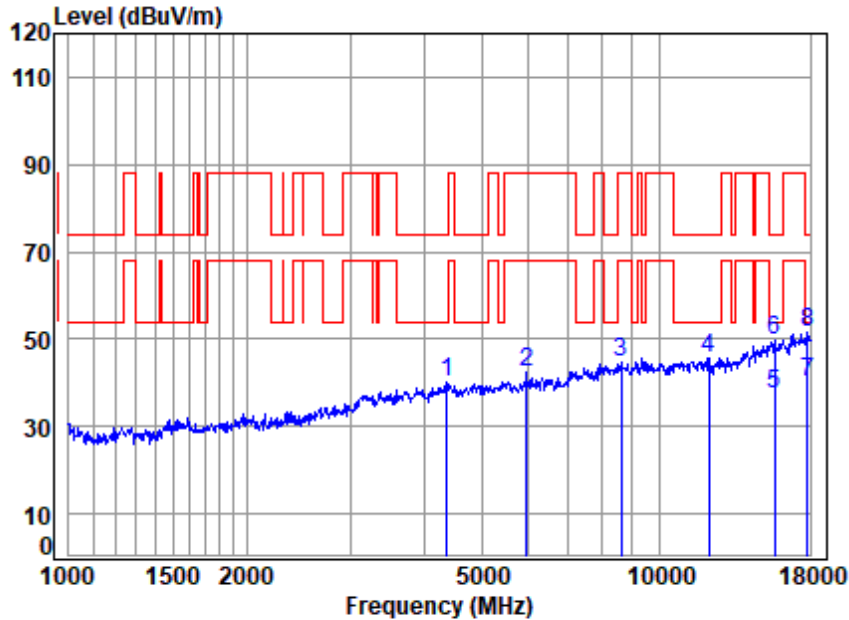


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6475 TX RSE
Note : WIFI 11AX20

		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	4379.699	5.03	34.64	54.26	54.90	40.31	74.00	-33.69 peak
2	6358.789	6.32	34.95	53.14	52.86	40.99	88.20	-47.21 Peak
3	8688.480	7.04	36.90	53.45	54.40	44.89	88.20	-43.31 peak
4	11368.000	8.22	37.73	53.08	52.40	45.27	74.00	-28.73 Peak
5	16842.290	10.02	43.03	52.73	51.81	52.13	88.20	-36.07 Peak
6	q17844.590	10.17	43.90	52.48	38.60	40.19	54.00	-13.81 Average
7	p17844.590	10.17	43.90	52.48	50.08	51.67	74.00	-22.33 peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

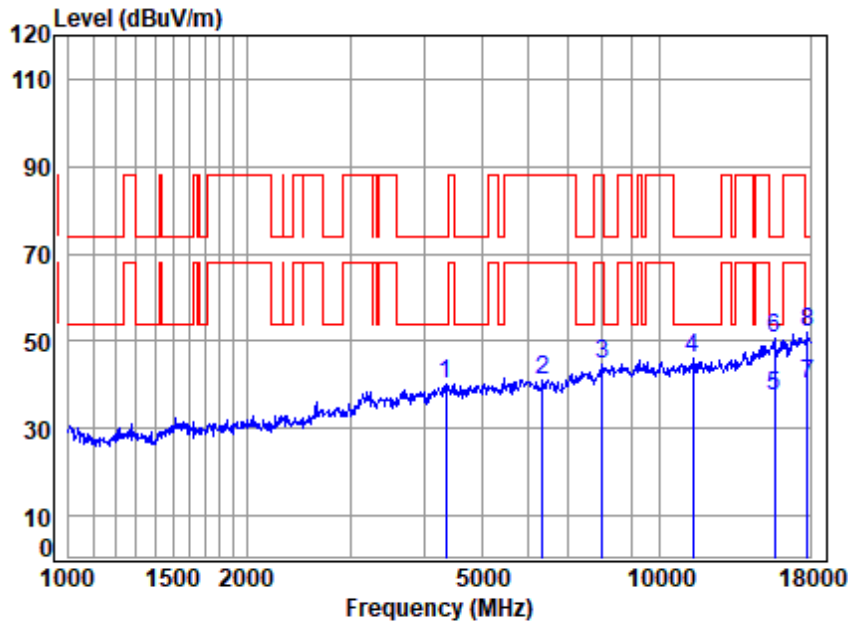


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6495 TX RSE
Note : WIFI 11AX20

		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	4367.058	5.02	34.54	54.26	55.01	40.31	74.00	-33.69 peak
2	5949.811	6.22	34.70	53.15	54.66	42.43	88.20	-45.77 Peak
3	8613.468	7.01	36.90	53.41	54.27	44.77	88.20	-43.43 peak
4	12149.420	8.47	37.80	53.20	52.67	45.74	74.00	-28.26 Peak
5	15668.210	9.48	41.17	52.06	38.69	37.28	54.00	-16.72 Average
6	15668.210	9.48	41.17	52.06	51.05	49.64	74.00	-24.36 Peak
7	q17793.090	10.19	43.89	52.50	38.72	40.30	54.00	-13.70 Average
8	p17793.090	10.19	43.89	52.50	49.82	51.40	74.00	-22.60 peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

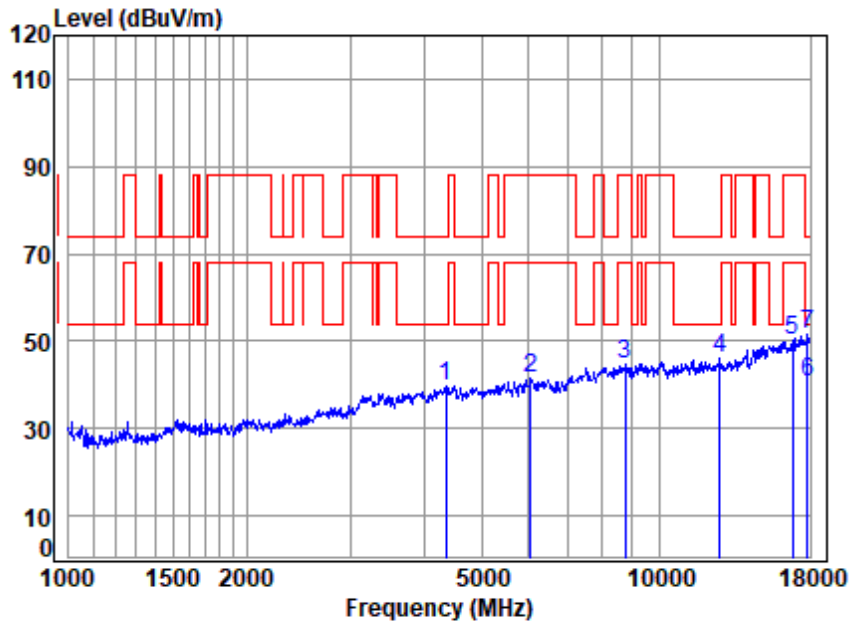


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6495 TX RSE
Note : WIFI 11AX20

		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	4354.454	5.00	34.44	54.26	54.81	39.99	74.00	-34.01 peak
2	6340.436	6.32	34.92	53.14	52.81	40.91	88.20	-47.29 Peak
3	8013.020	6.51	36.40	53.11	54.97	44.77	88.20	-43.43 peak
4	11400.910	8.24	37.70	53.08	53.11	45.97	74.00	-28.03 Peak
5	15668.210	9.48	41.17	52.06	38.94	37.53	54.00	-16.47 Average
6	15668.210	9.48	41.17	52.06	52.14	50.73	74.00	-23.27 Peak
7	q17793.090	10.19	43.89	52.50	38.65	40.23	54.00	-13.77 Average
8	p17793.090	10.19	43.89	52.50	50.33	51.91	74.00	-22.09 peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

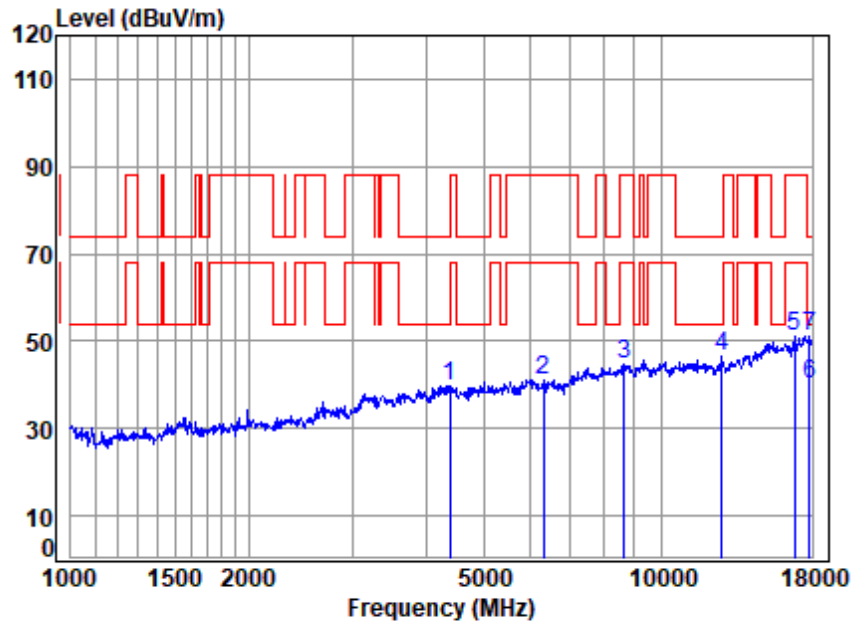


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6535 TX RSE
Note : WIFI 11AX20

		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	4354.454	5.00	34.44	54.26	54.70	39.88	74.00	-34.12 peak
2	6053.894	6.26	35.01	53.11	53.19	41.35	88.20	-46.85 Peak
3	8738.852	7.07	36.90	53.47	54.31	44.81	88.20	-43.39 peak
4	12651.130	8.65	38.00	53.20	52.83	46.28	74.00	-27.72 Peak
5	16793.680	9.95	42.89	52.68	50.18	50.34	88.20	-37.86 Peak
6	q17844.590	10.17	43.90	52.48	38.89	40.48	54.00	-13.52 Average
7	p17844.590	10.17	43.90	52.48	49.95	51.54	74.00	-22.46 peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

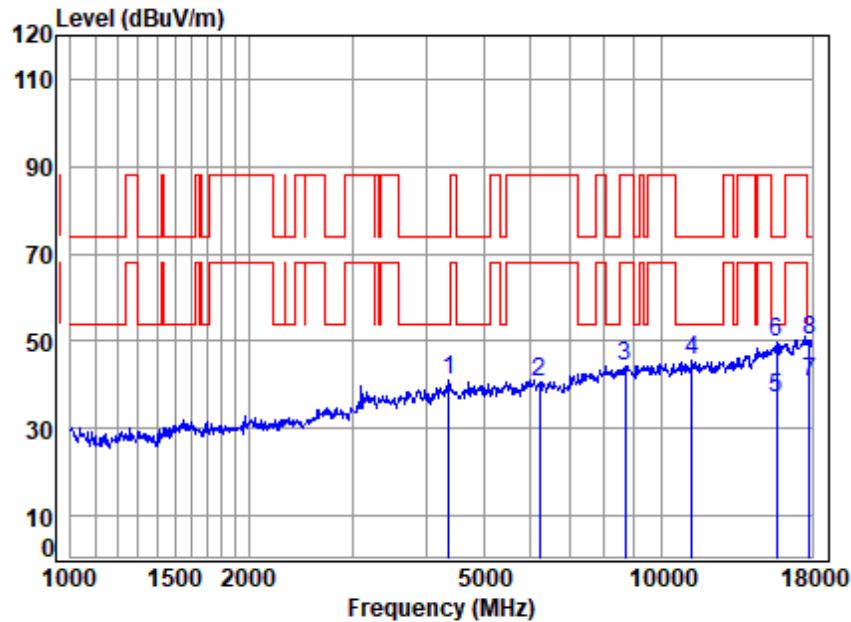


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6535 TX RSE
Note : WIFI 11AX20

		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	4379.699	5.03	34.64	54.26	54.39	39.80	74.00	-34.20 peak
2	6322.136	6.32	34.96	53.13	53.07	41.22	88.20	-46.98 Peak
3	8663.404	7.03	36.90	53.44	54.10	44.59	88.20	-43.61 peak
4	12651.130	8.65	38.00	53.20	52.87	46.32	74.00	-27.68 Peak
5	16793.680	9.95	42.89	52.68	50.92	51.08	88.20	-37.12 Peak
6	q17844.590	10.17	43.90	52.48	38.70	40.29	54.00	-13.71 Average
7	p17844.590	10.17	43.90	52.48	49.32	50.91	74.00	-23.09 peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

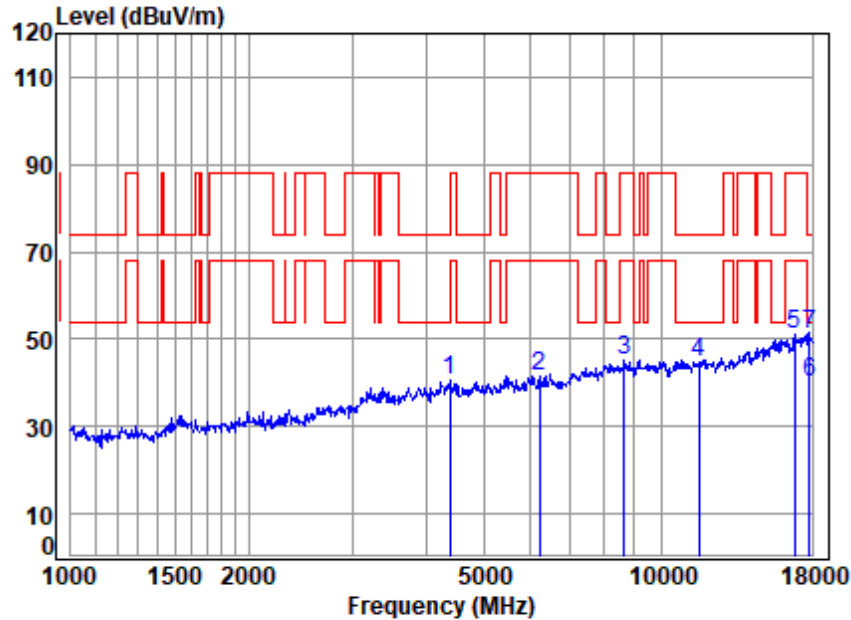


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6695 TX RSE
Note : WIFI 11AX20

		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	4367.058	5.02	34.54	54.26	55.79	41.09	74.00	-32.91 peak
2	6231.427	6.30	34.83	53.12	52.74	40.75	88.20	-47.45 Peak
3	8688.480	7.04	36.90	53.45	53.92	44.41	88.20	-43.79 peak
4	11269.860	8.14	37.77	53.06	52.98	45.83	74.00	-28.17 Peak
5	15668.210	9.48	41.17	52.06	38.52	37.11	54.00	-16.89 Average
6	15668.210	9.48	41.17	52.06	50.92	49.51	74.00	-24.49 Peak
7	q17844.590	10.17	43.90	52.48	38.98	40.57	54.00	-13.43 Average
8	p17844.590	10.17	43.90	52.48	48.74	50.33	74.00	-23.67 peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

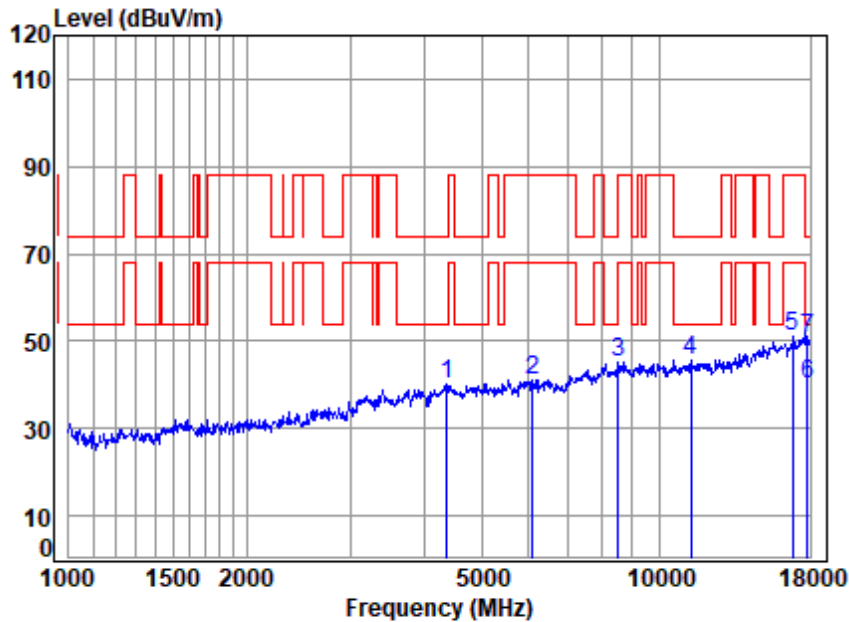


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6695 TX RSE
Note : WIFI 11AX20

		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	4379.699	5.03	34.64	54.26	55.14	40.55	74.00	-33.45 peak
2	6213.441	6.29	34.75	53.12	53.73	41.65	88.20	-46.55 Peak
3	8638.399	7.02	36.90	53.43	54.46	44.95	88.20	-43.25 peak
4	11600.350	8.33	37.70	53.12	51.96	44.87	74.00	-29.13 Peak
5	16793.680	9.95	42.89	52.68	51.02	51.18	88.20	-37.02 Peak
6	q17793.090	10.19	43.89	52.50	38.69	40.27	54.00	-13.73 Average
7	p17793.090	10.19	43.89	52.50	49.53	51.11	74.00	-22.89 peak



Test Mode: 10; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

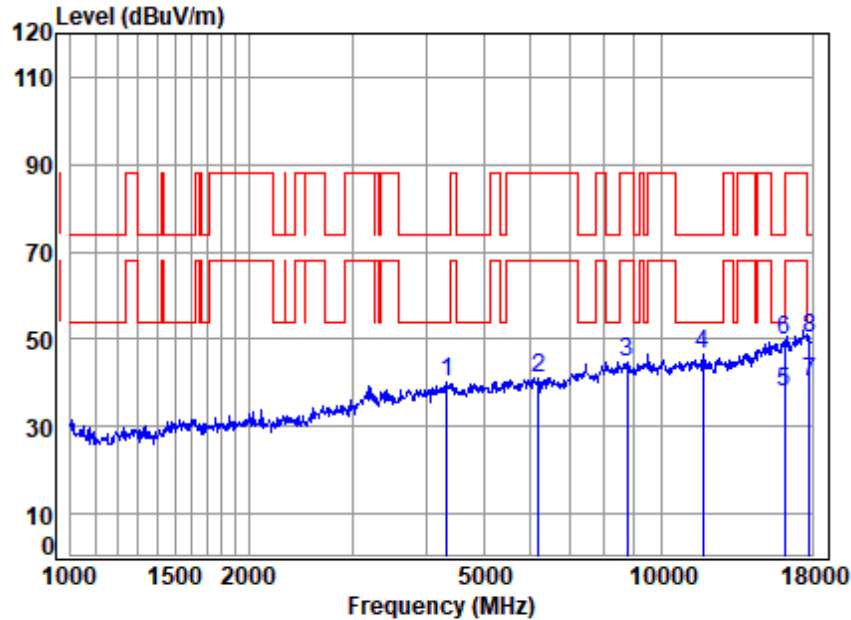


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6855 TX RSE
Note : WIFI 11AX20

		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	4367.058	5.02	34.54	54.26	54.88	40.18	74.00	-33.82	peak
2	6106.616	6.27	35.07	53.11	52.90	41.13	88.20	-47.07	Peak
3	8514.456	6.97	36.73	53.36	55.03	45.37	88.20	-42.83	peak
4	11302.480	8.17	37.80	53.06	52.68	45.59	74.00	-28.41	Peak
5	16842.290	10.02	43.03	52.73	51.00	51.32	88.20	-36.88	Peak
6	q17844.590	10.17	43.90	52.48	38.70	40.29	54.00	-13.71	Average
7	p17844.590	10.17	43.90	52.48	49.07	50.66	74.00	-23.34	peak



Test Mode: 10; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

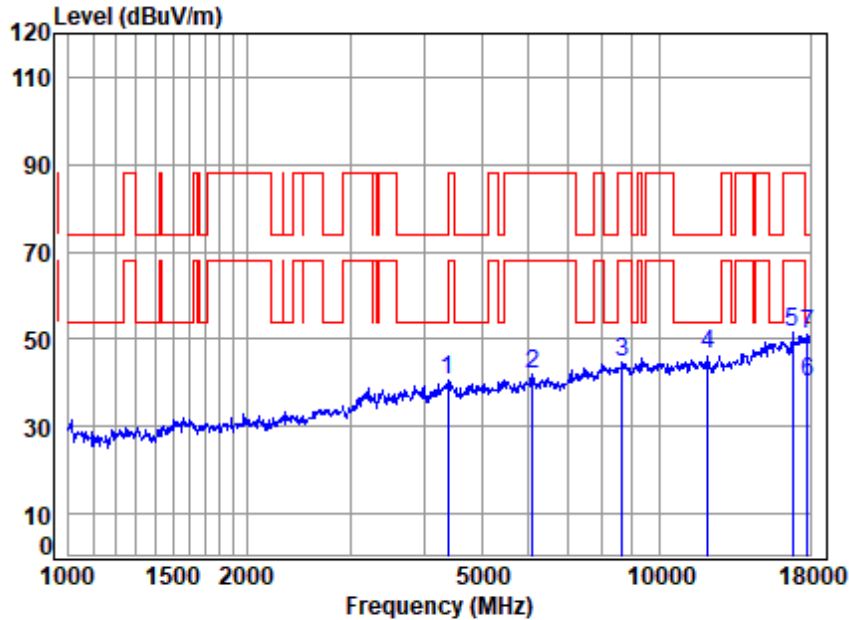


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6855 TX RSE
Note : WIFI 11AX20

		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	4329.354	4.98	34.23	54.26	54.99	39.94	74.00	-34.06 peak
2	6195.508	6.29	34.72	53.12	53.11	41.00	88.20	-47.20 Peak
3	8738.852	7.07	36.90	53.47	54.16	44.66	88.20	-43.54 peak
4	11769.210	8.36	37.90	53.16	53.51	46.61	74.00	-27.39 Peak
5	16174.370	9.56	41.77	52.00	38.67	38.00	54.00	-16.00 Average
6	16174.370	9.56	41.77	52.00	50.31	49.64	74.00	-24.36 Peak
7	q17793.090	10.19	43.89	52.50	38.57	40.15	54.00	-13.85 Average
8	p17793.090	10.19	43.89	52.50	48.62	50.20	74.00	-23.80 peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

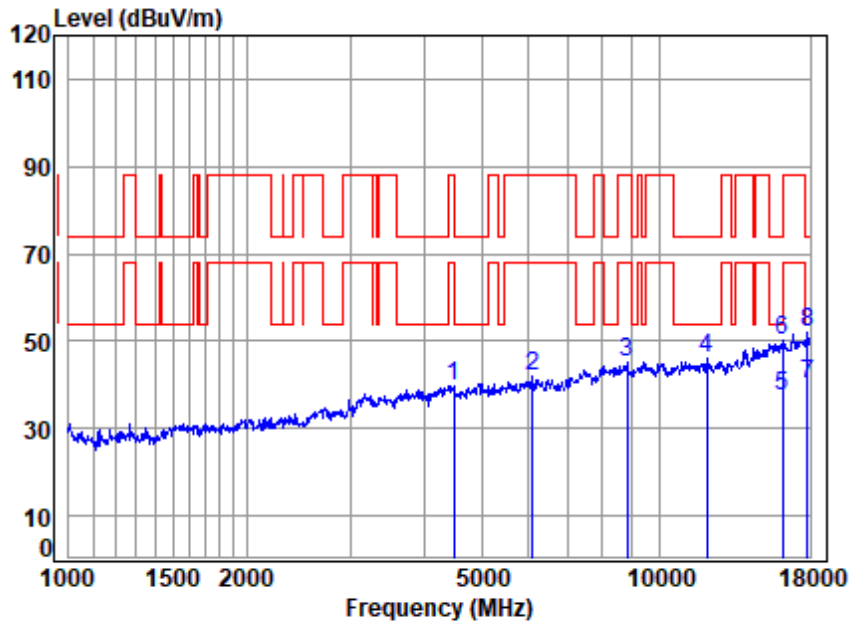


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6895 TX RSE
Note : WIFI 11AX20

		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	4379.699	5.03	34.64	54.26	54.99	40.40	74.00	-33.60 peak
2	6088.991	6.27	35.08	53.11	53.79	42.03	88.20	-46.17 Peak
3	8638.399	7.02	36.90	53.43	54.09	44.58	88.20	-43.62 peak
4	12079.390	8.43	37.72	53.20	53.36	46.31	74.00	-27.69 Peak
5	16842.290	10.02	43.03	52.73	51.21	51.53	88.20	-36.67 Peak
6	q17793.090	10.19	43.89	52.50	38.57	40.15	54.00	-13.85 Average
7	p17793.090	10.19	43.89	52.50	49.38	50.96	74.00	-23.04 peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low

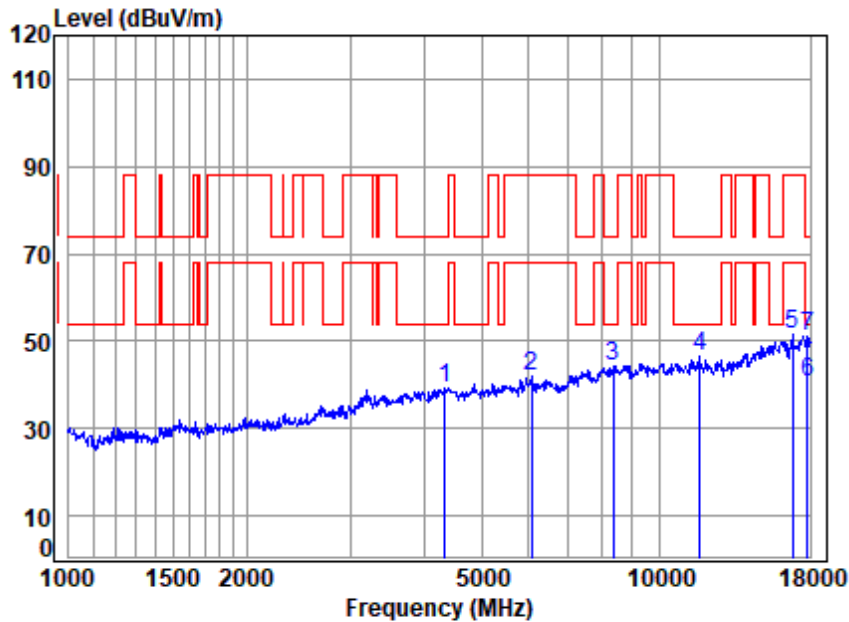


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6895 TX RSE
Note : WIFI 11AX20

		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	4482.150	5.13	33.81	54.25	55.17	39.86	88.20	-48.34 peak
2	6088.991	6.27	35.08	53.11	53.61	41.85	88.20	-46.35 Peak
3	8814.957	7.10	37.13	53.51	54.30	45.02	88.20	-43.18 peak
4	12044.520	8.41	37.76	53.20	52.91	45.88	74.00	-28.12 Peak
5	16174.370	9.56	41.77	52.00	38.25	37.58	54.00	-16.42 Average
6	16174.370	9.56	41.77	52.00	51.00	50.33	74.00	-23.67 Peak
7	q17844.590	10.17	43.90	52.48	38.70	40.29	54.00	-13.71 Average
8	p17844.590	10.17	43.90	52.48	50.27	51.86	74.00	-22.14 peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

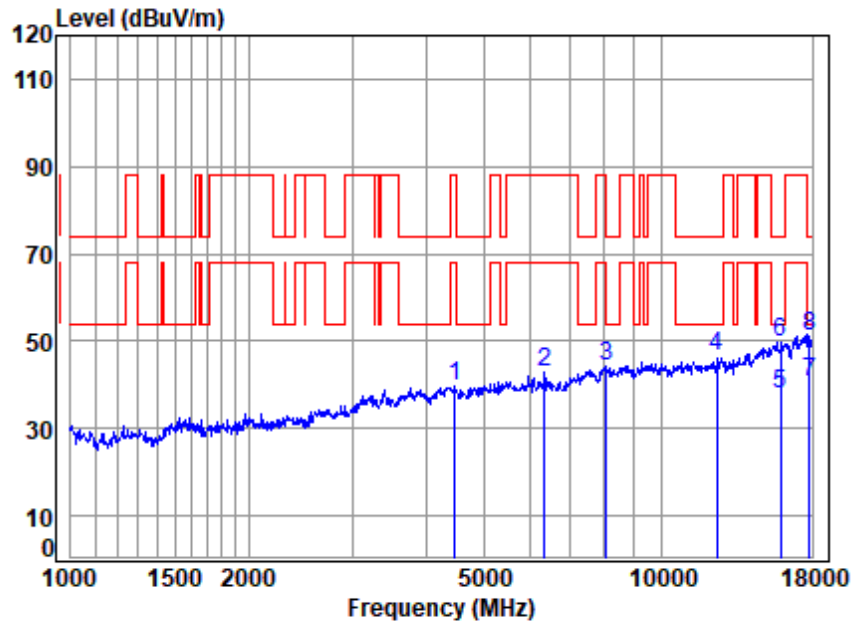


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6995 TX RSE
Note : WIFI 11AX20

		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	4329.354	4.98	34.23	54.26	54.41	39.36	74.00	-34.64	peak
2	6071.417	6.26	35.04	53.11	53.71	41.90	88.20	-46.30	Peak
3	8343.918	6.82	36.70	53.28	54.11	44.35	74.00	-29.65	peak
4	11735.250	8.35	37.90	53.15	53.61	46.71	74.00	-27.29	Peak
5	16793.680	9.95	42.89	52.68	51.19	51.35	88.20	-36.85	Peak
6	q17793.090	10.19	43.89	52.50	38.95	40.53	54.00	-13.47	Average
7	p17793.090	10.19	43.89	52.50	49.52	51.10	74.00	-22.90	peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

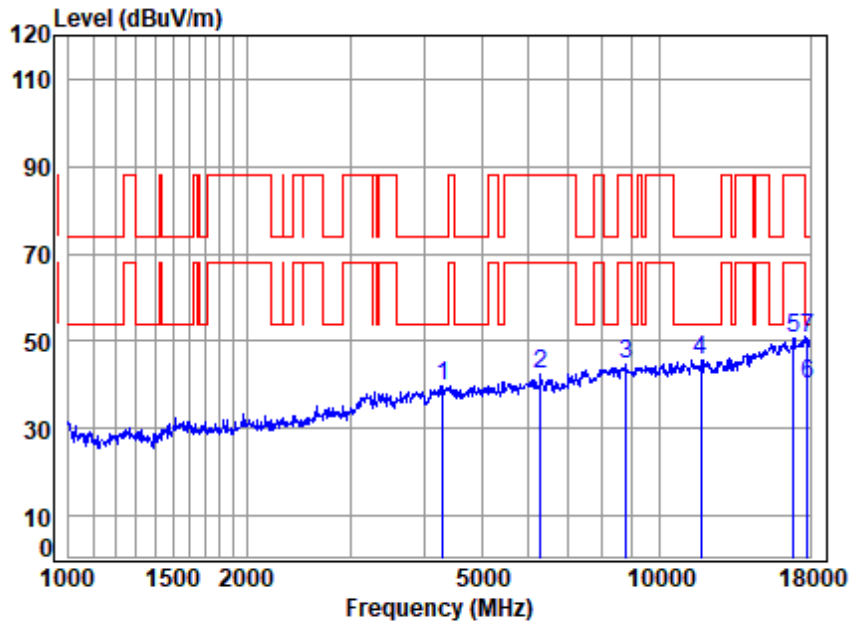


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6995 TX RSE
Note : WIFI 11AX20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	
1	4469.214	5.12	33.97	54.25	54.67	39.51	88.20	-48.69 peak
2	6340.436	6.32	34.92	53.14	54.96	43.06	88.20	-45.14 Peak
3	8059.475	6.56	36.42	53.13	54.60	44.45	74.00	-29.55 peak
4	12397.740	8.61	37.90	53.20	53.21	46.52	74.00	-27.48 Peak
5	15942.300	9.56	41.48	51.84	38.66	37.86	54.00	-16.14 Average
6	15942.300	9.56	41.48	51.84	50.70	49.90	74.00	-24.10 Peak
7	q17793.090	10.19	43.89	52.50	38.98	40.56	54.00	-13.44 Average
8	p17793.090	10.19	43.89	52.50	49.32	50.90	74.00	-23.10 peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

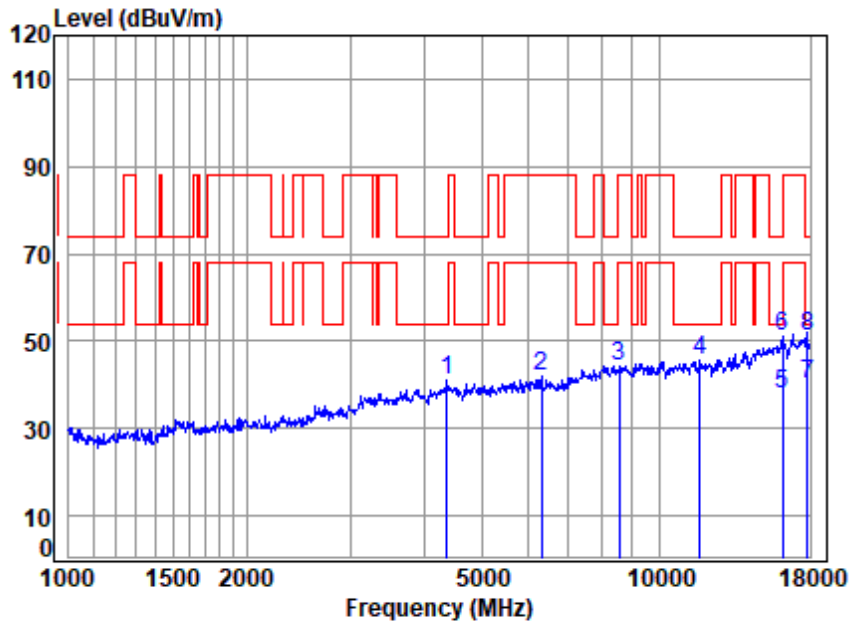


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 7115 TX RSE
Note : WIFI 11AX20

		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	4304.400	4.95	34.04	54.27	55.04	39.76	74.00	-34.24 peak
2	6303.890	6.31	34.99	53.13	54.15	42.32	88.20	-45.88 Peak
3	8789.516	7.09	37.06	53.50	54.13	44.78	88.20	-43.42 peak
4	11769.210	8.36	37.90	53.16	52.43	45.53	74.00	-28.47 Peak
5	16891.040	10.09	43.17	52.78	50.20	50.68	88.20	-37.52 Peak
6	q17793.090	10.19	43.89	52.50	38.64	40.22	54.00	-13.78 Average
7	p17793.090	10.19	43.89	52.50	49.29	50.87	74.00	-23.13 peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 7115 TX RSE
Note : WIFI 11AX20

		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	4367.058	5.02	34.54	54.26	55.77	41.07	74.00	-32.93 peak
2	6322.136	6.32	34.96	53.13	53.80	41.95	88.20	-46.25 Peak
3	8563.818	6.99	36.83	53.39	53.90	44.33	88.20	-43.87 peak
4	11735.250	8.35	37.90	53.15	52.46	45.56	74.00	-28.44 Peak
5	16174.370	9.56	41.77	52.00	38.58	37.91	54.00	-16.09 Average
6	16174.370	9.56	41.77	52.00	51.67	51.00	74.00	-23.00 Peak
7	q17793.090	10.19	43.89	52.50	38.69	40.27	54.00	-13.73 Average
8	p17793.090	10.19	43.89	52.50	49.51	51.09	74.00	-22.91 peak



7.4 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: ANSI C63.10 (2020) Section 6.10.5

Measurement Distance: 3m

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

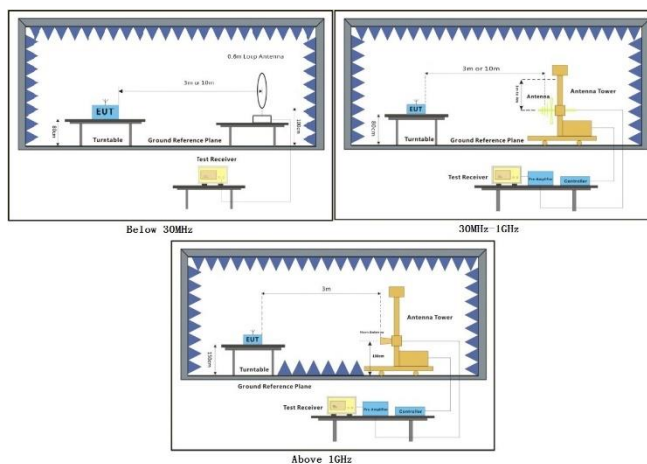
Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



7.4.4 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.

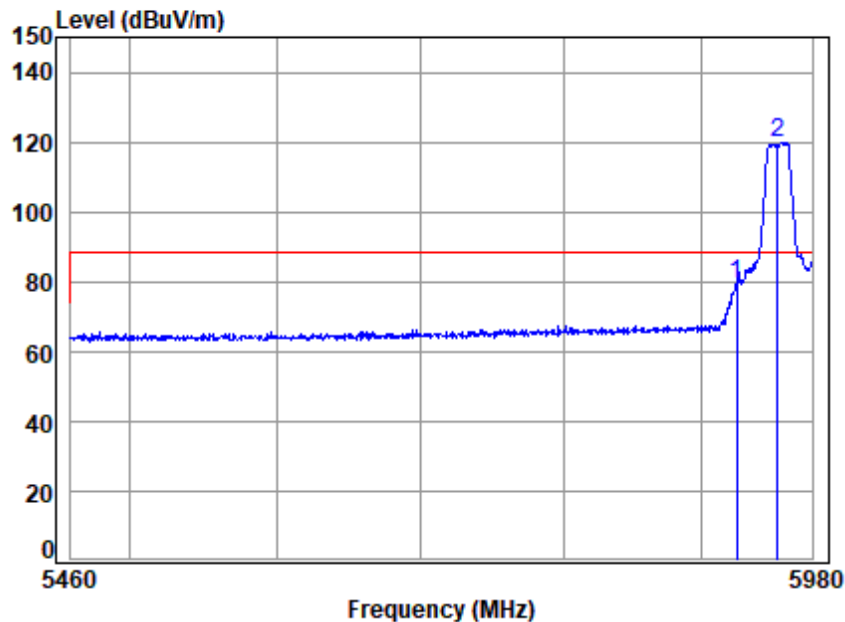
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

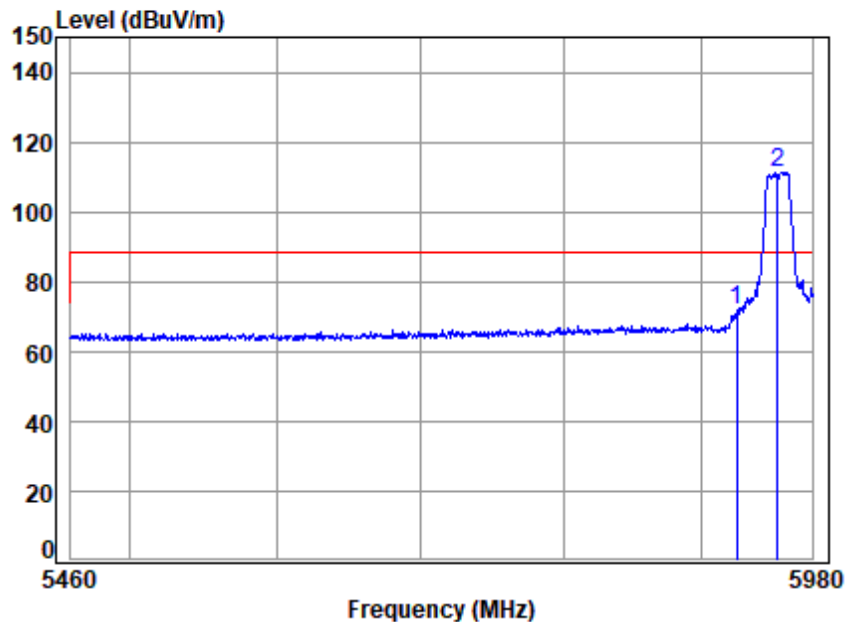


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 5955 Band edge
: 6G WIFI 11A

		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	5925.000	20.17	34.65	31.67	56.06	79.21	88.20	-8.99 peak
2 p	5955.000	20.22	34.72	31.68	96.72	119.98	88.20	31.78 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

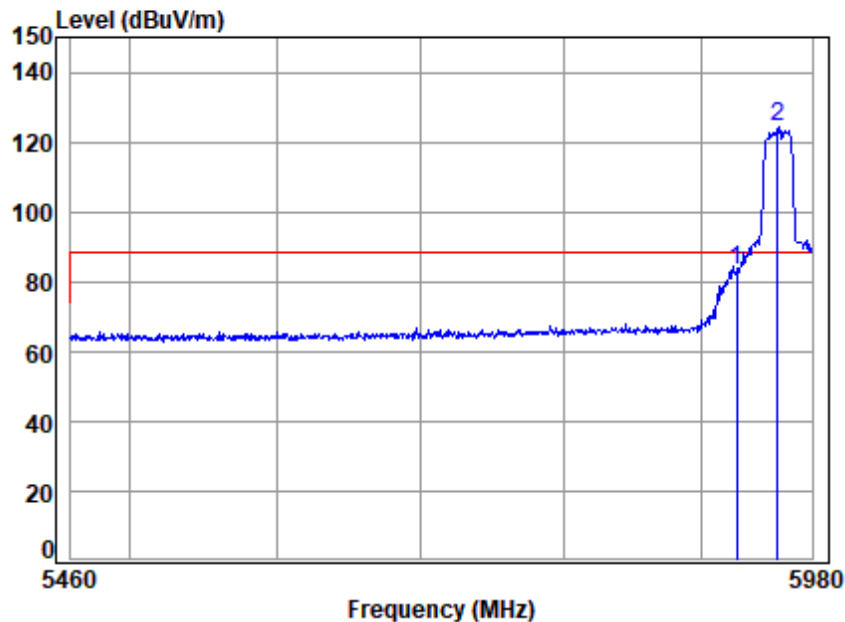


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 5955 Band edge
: 6G WIFI 11A

		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	5925.000	20.17	34.65	31.67	48.52	71.67	88.20	-16.53 peak
2 p	5955.000	20.22	34.72	31.68	88.18	111.44	88.20	23.24 peak



Test Mode: 08; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low

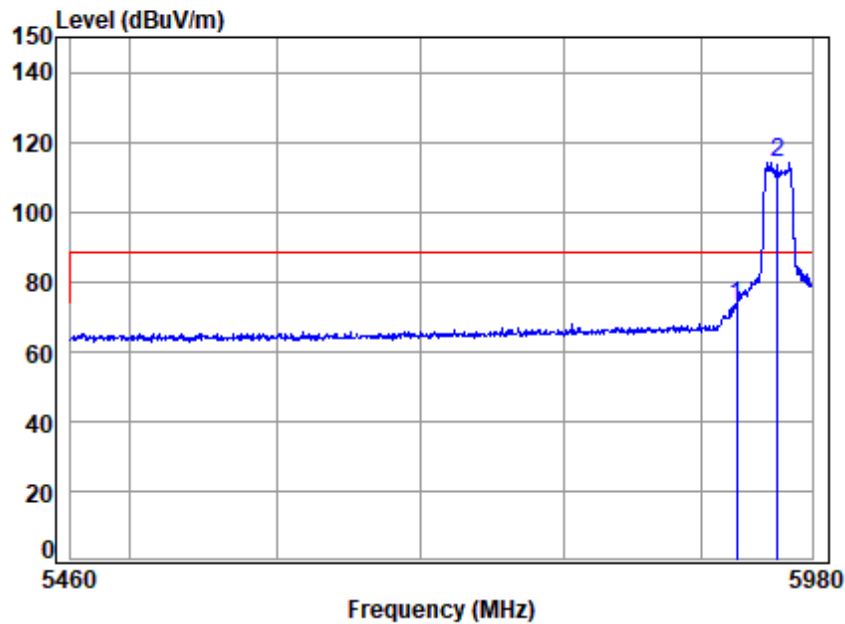


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 5955 Band edge
: 6G WIFI 11AX20

		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	5925.000	20.17	34.65	31.67	59.99	83.14	88.20	-5.06 peak
2 p	5955.000	20.22	34.72	31.68	101.25	124.51	88.20	36.31 peak



Test Mode: 08; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low

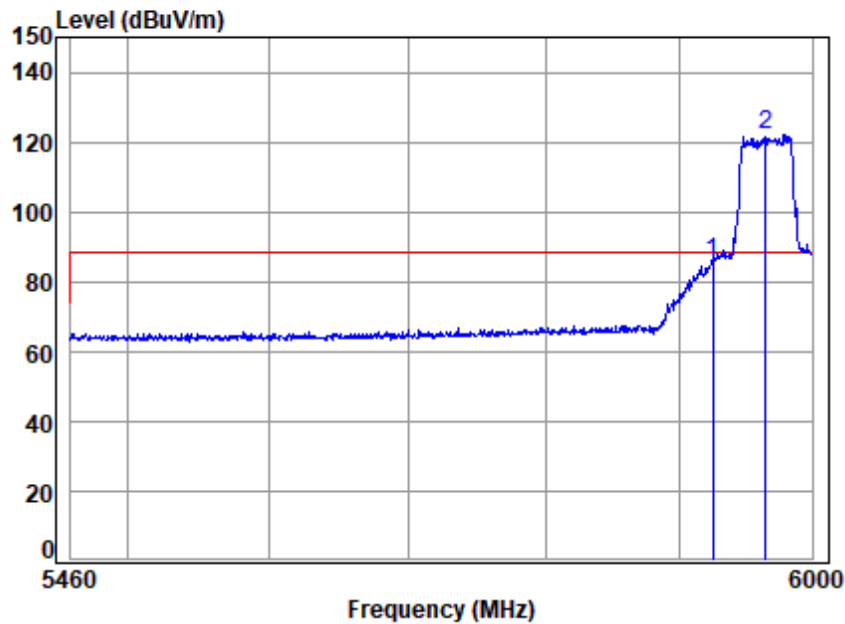


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 5955 Band edge
: 6G WIFI 11AX20

		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	5925.000	20.17	34.65	31.67	50.13	73.28	88.20	-14.92 peak
2 p	5955.000	20.22	34.72	31.68	90.95	114.21	88.20	26.01 peak



Test Mode: 08; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 40MHz; Channel: Low

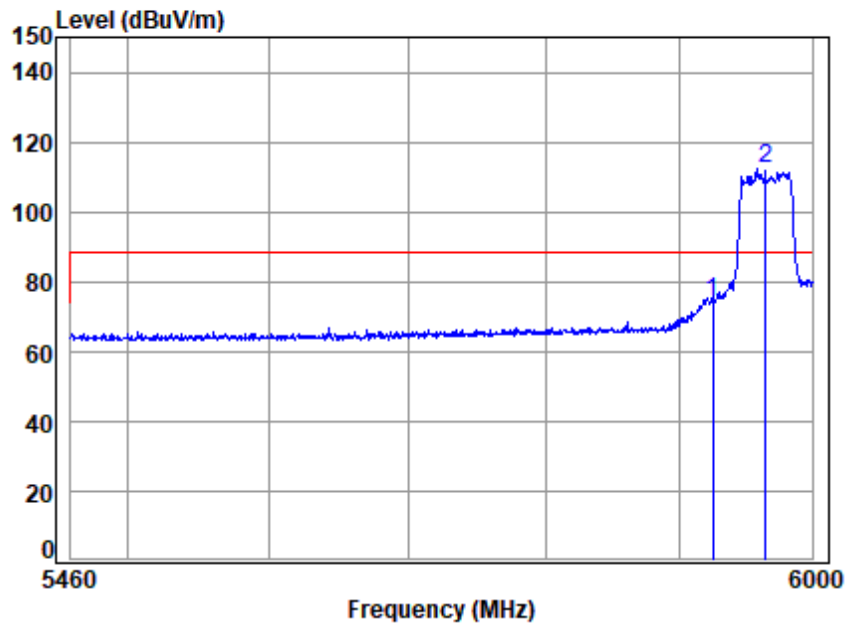


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 5965 Band edge
: 6G WIFI 11AX40

		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	5925.000	20.17	34.65	31.67	62.66	85.81	88.20	-2.39	peak
2 p	5965.000	20.24	34.76	31.68	98.49	121.81	88.20	33.61	peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low

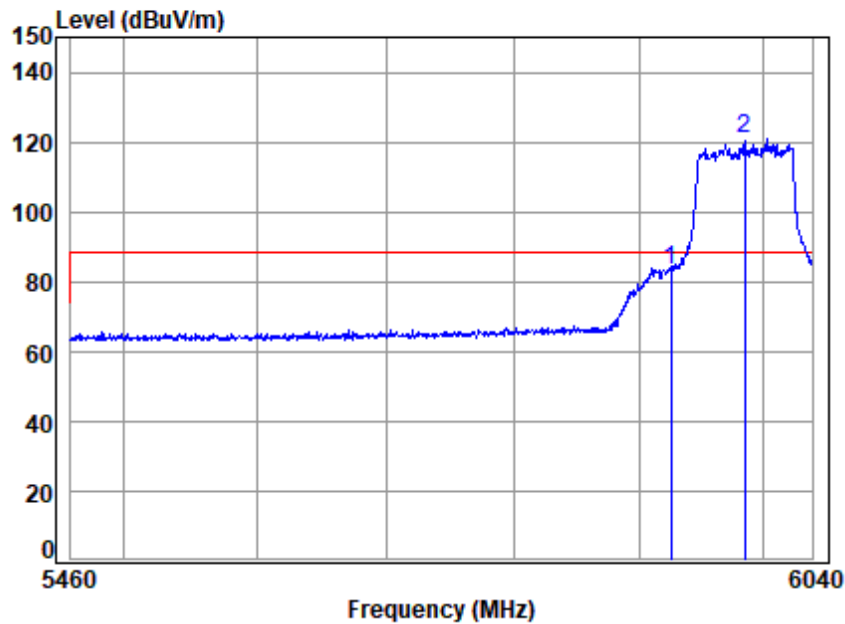


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 5965 Band edge
: 6G WIFI 11AX40

		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	5925.000	20.17	34.65	31.67	51.10	74.25	88.20	-13.95 peak
2 p	5965.000	20.24	34.76	31.68	88.99	112.31	88.20	24.11 peak



Test Mode: 08; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 80MHz; Channel: Low

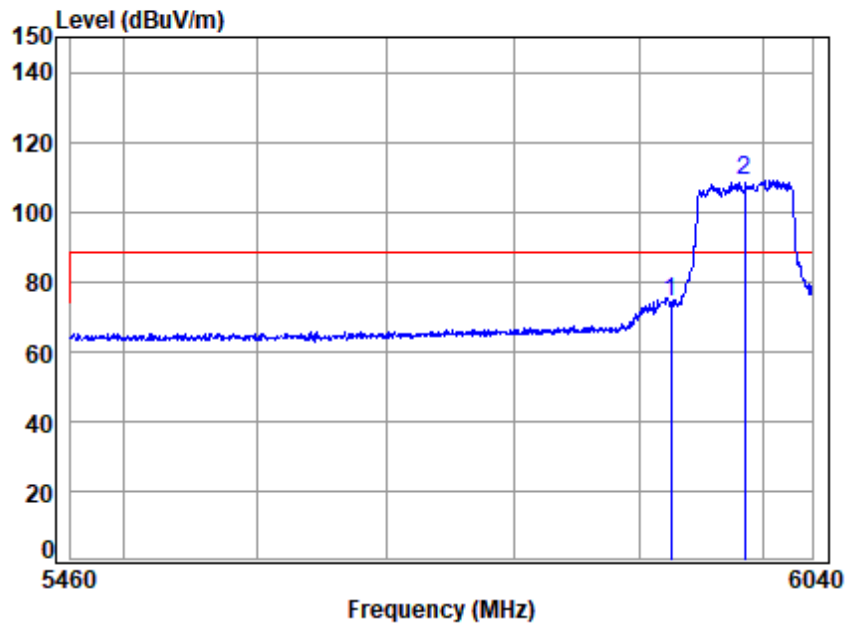


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 5985 Band edge
: 6G WIFI 11AX80

		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	5925.000	20.17	34.65	31.67	60.39	83.54	88.20	-4.66 peak
2 p	5985.000	20.27	34.84	31.69	97.47	120.89	88.20	32.69 peak



Test Mode: 08; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 80MHz; Channel: Low

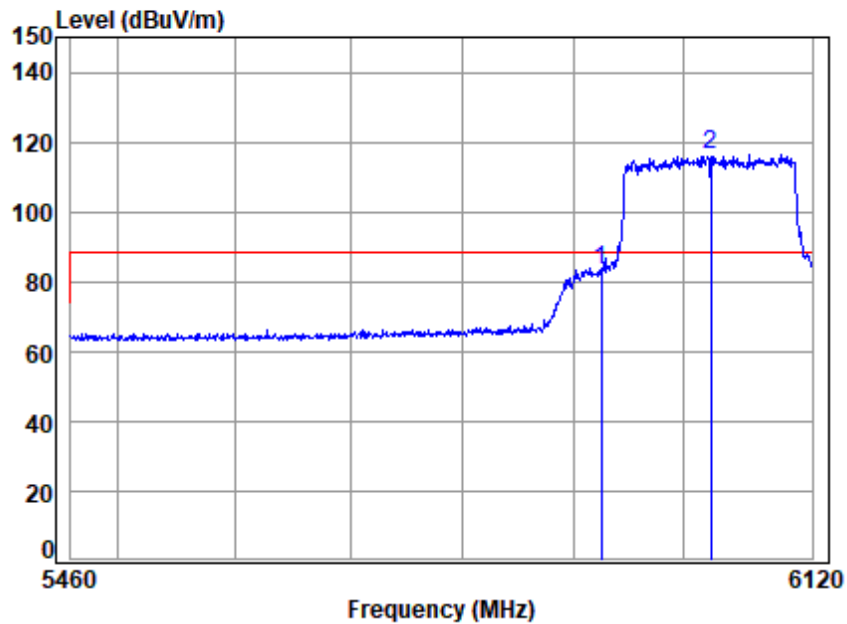


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 5985 Band edge
: 6G WIFI 11AX80

		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	5925.000	20.17	34.65	31.67	50.73	73.88	88.20	-14.32 peak
2 p	5985.000	20.27	34.84	31.69	85.55	108.97	88.20	20.77 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:Low

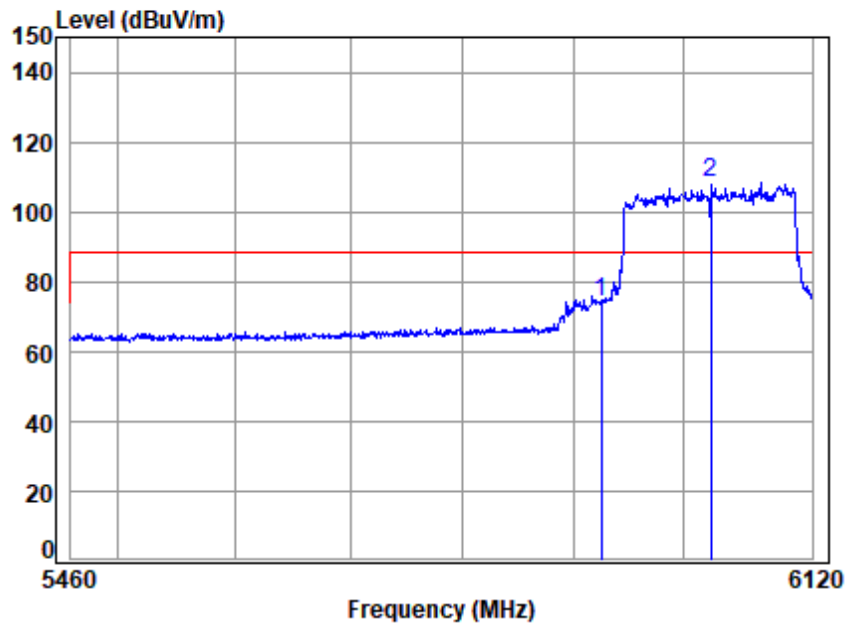


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6025 Band edge
: 6G WIFI 11AX160

		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	5925.000	20.17	34.65	31.67	59.93	83.08	88.20	-5.12 peak
2 p	6025.000	20.27	34.95	31.67	92.84	116.39	88.20	28.19 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:Low

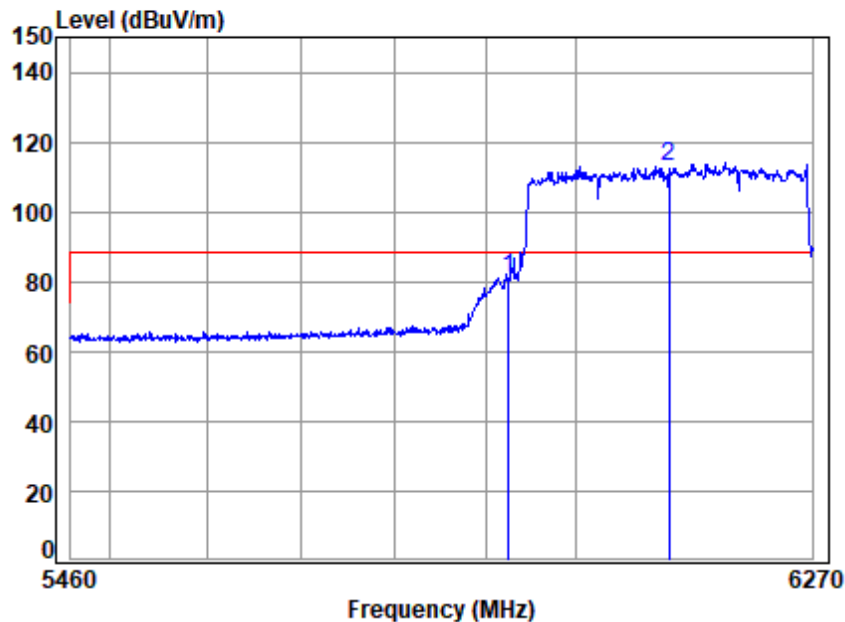


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6025 Band edge
: 6G WIFI 11AX160

		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	5925.000	20.17	34.65	31.67	50.98	74.13	88.20	-14.07 peak
2 p	6025.000	20.27	34.95	31.67	84.55	108.10	88.20	19.90 peak



Test Mode: 08; Polarity: Horizontal; Modulation:802.11be(Full RU0); Bandwidth:320MHz; Channel:Low

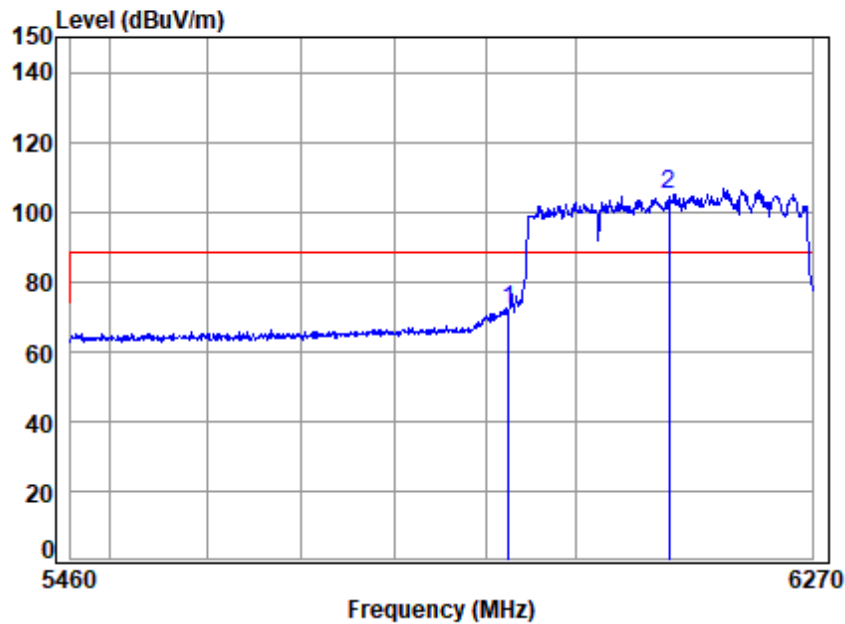


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6105 Band edge
: 6G WIFI 11BE320

		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	5925.000	20.17	34.65	31.67	57.58	80.73	88.20	-7.47 peak
2 p	6105.000	20.19	35.08	31.58	89.22	112.91	88.20	24.71 peak



Test Mode: 08; Polarity: Vertical; Modulation:802.11be(Full RU0); Bandwidth:320MHz; Channel:Low

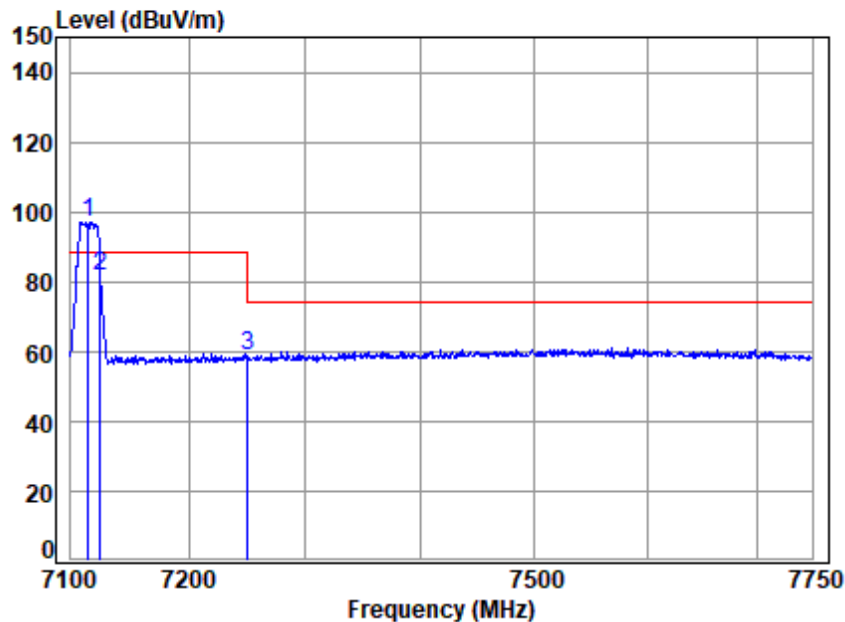


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6105 Band edge
: 6G WIFI 11BE320

		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	5925.000	20.17	34.65	31.67	48.62	71.77	88.20	-16.43 peak
2 p	6105.000	20.19	35.08	31.58	81.40	105.09	88.20	16.89 peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

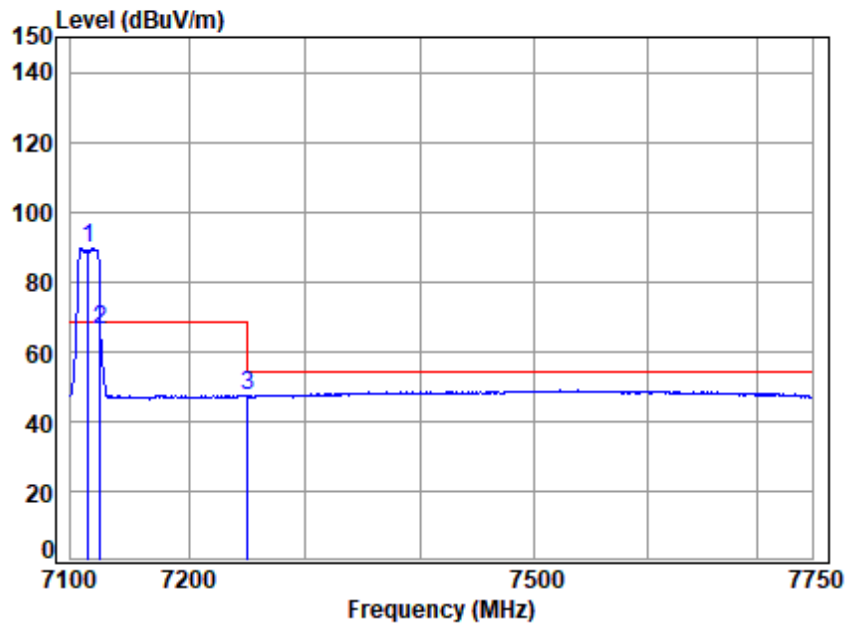


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 7115 Band edge
: 6G WIFI 11A

		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 p	7115.000	20.13	35.80	30.54	71.71	97.10	88.20	8.90 peak
2	7124.921	20.13	35.80	30.53	55.89	81.29	88.20	-6.91 peak
3	7250.000	20.16	35.70	30.47	33.11	58.50	74.00	-15.50 peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

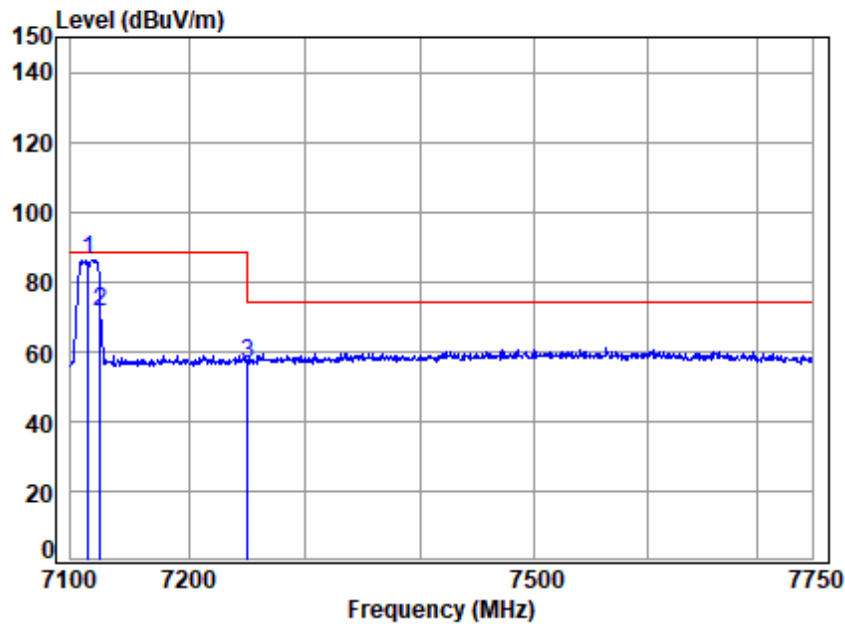


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 7115 Band edge
: 6G WIFI 11A

		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 q 7115.000		20.13	35.80	30.54	64.43	89.82	68.20	21.62 Average
2 7124.921		20.13	35.80	30.53	40.97	66.37	68.20	-1.83 Average
3 7250.000		20.16	35.70	30.47	22.09	47.48	54.00	-6.52 Average



Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

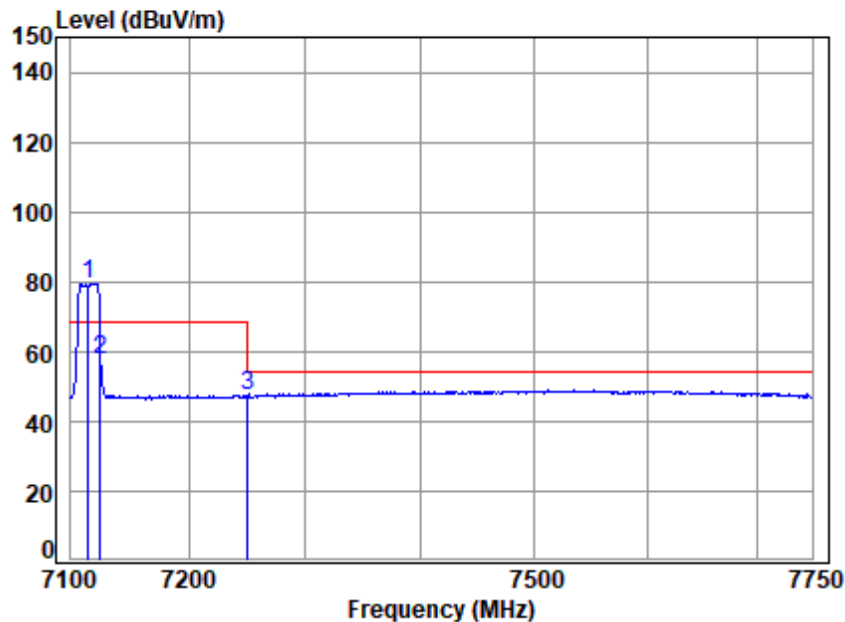


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 7115 Band edge
: 6G WIFI 11A

		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 p	7115.000	20.13	35.80	30.54	60.96	86.35	88.20	-1.85 Peak
2	7124.921	20.13	35.80	30.53	45.92	71.32	88.20	-16.88 peak
3	7250.000	20.16	35.70	30.47	31.18	56.57	74.00	-17.43 Peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

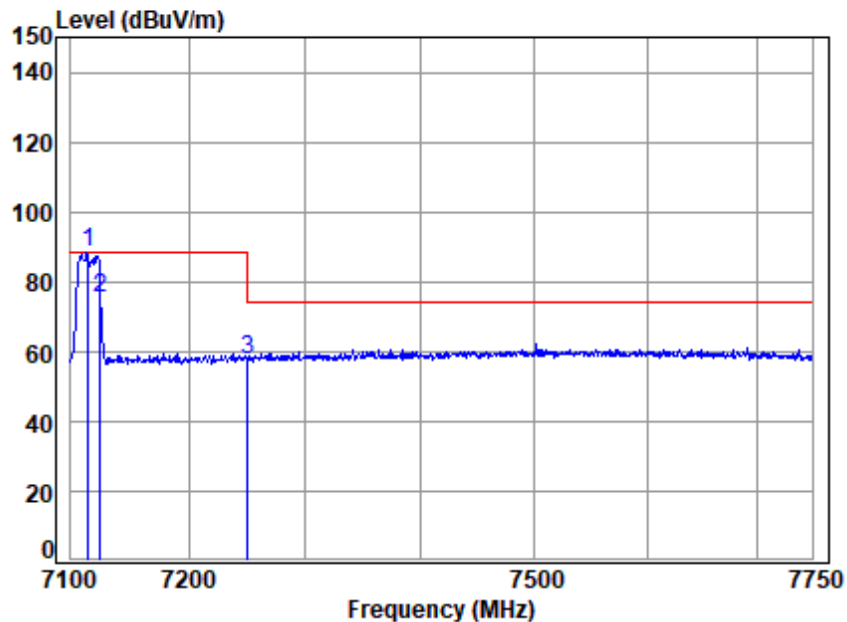


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 7115 Band edge
: 6G WIFI 11A

		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 q 7115.000	20.13	35.80	30.54	54.11	79.50	68.20	11.30	Average
2 7124.921	20.13	35.80	30.53	32.09	57.49	68.20	-10.71	Average
3 7250.000	20.16	35.70	30.47	21.79	47.18	54.00	-6.82	Average



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

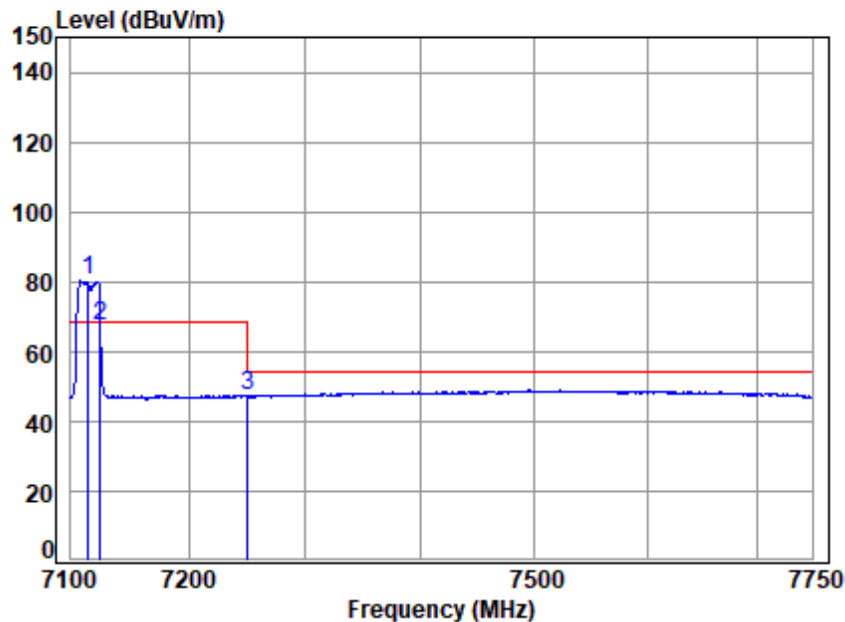


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 7115 Band edge
: 6G WIFI 11AX20

		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 p 7115.000		20.13	35.80	30.54	62.81	88.20	88.20	0.00	peak
2 7124.921		20.13	35.80	30.53	49.91	75.31	88.20	-12.89	peak
3 7250.000		20.16	35.70	30.47	32.41	57.80	74.00	-16.20	peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

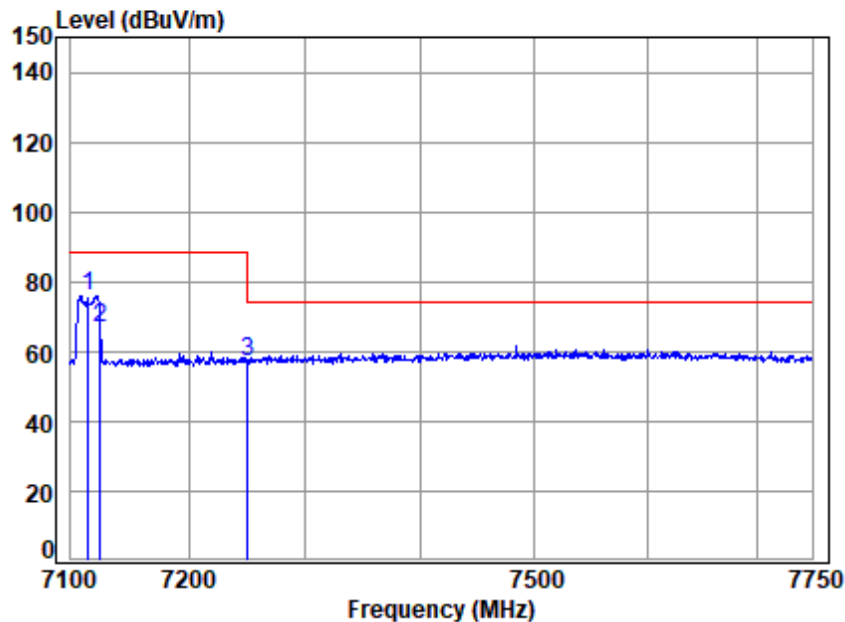


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 7115 Band edge
: 6G WIFI 11AX20

		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 q 7115.000	20.13	35.80	30.54	54.75	80.14	68.20	11.94	Average
2 7124.921	20.13	35.80	30.53	41.84	67.24	68.20	-0.96	Average
3 7250.000	20.16	35.70	30.47	21.73	47.12	54.00	-6.88	Average



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

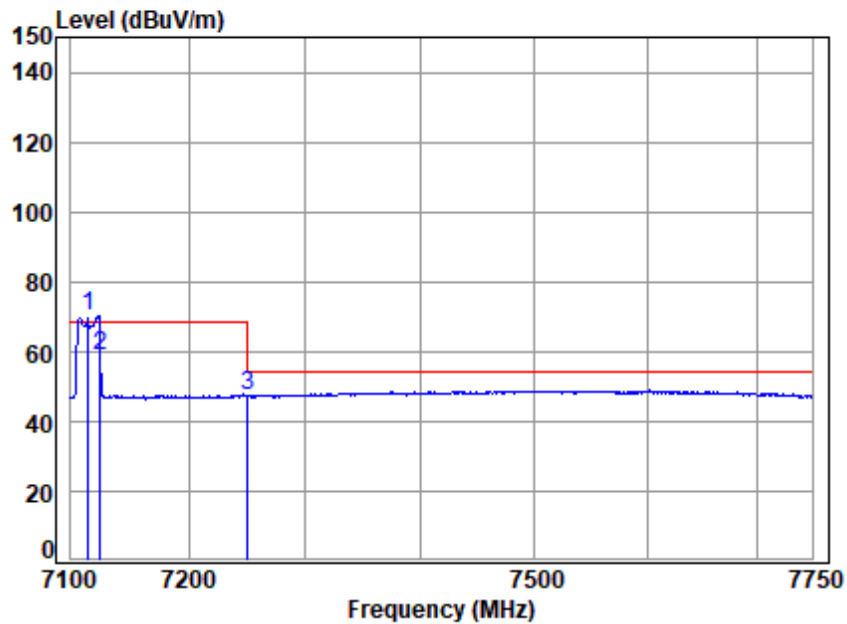


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 7115 Band edge
: 6G WIFI 11AX20

		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 p 7115.000		20.13	35.80	30.54	50.60	75.99	88.20	-12.21	Peak
2 7124.921		20.13	35.80	30.53	41.39	66.79	88.20	-21.41	peak
3 7250.000		20.16	35.70	30.47	31.46	56.85	74.00	-17.15	Peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

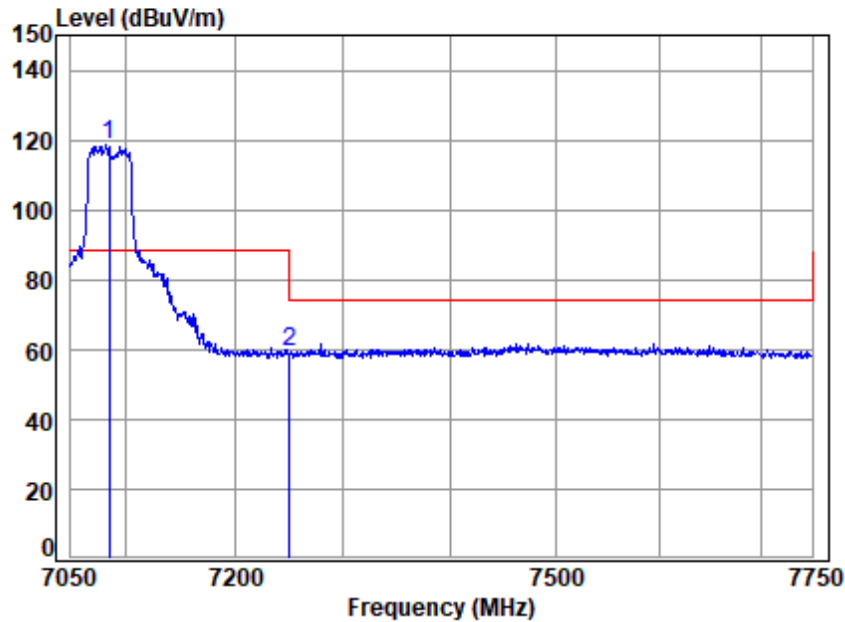


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 7115 Band edge
: 6G WIFI 11AX20

		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 q 7115.000		20.13	35.80	30.54	44.85	70.24	68.20	2.04 Average
2 7124.921		20.13	35.80	30.53	33.53	58.93	68.20	-9.27 Average
3 7250.000		20.16	35.70	30.47	21.88	47.27	54.00	-6.73 Average



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

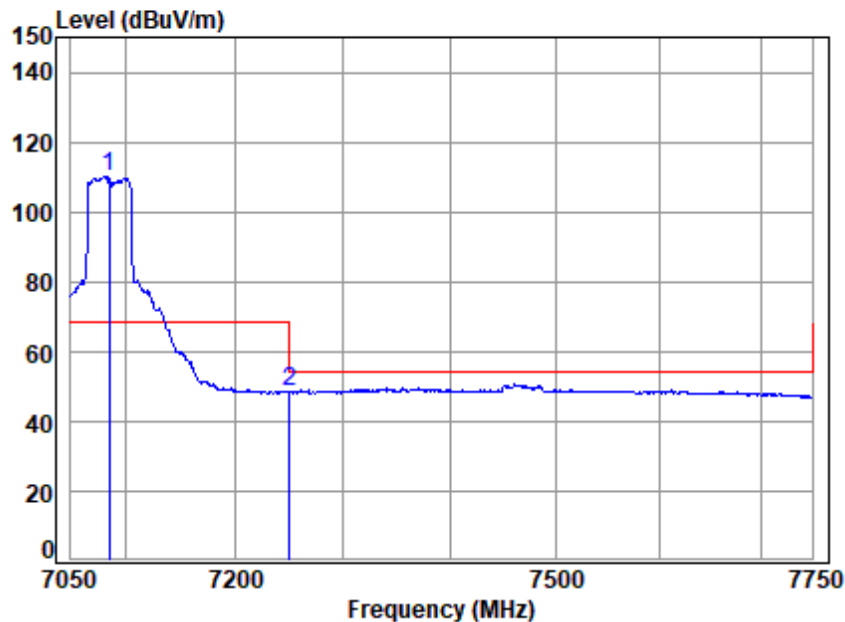


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 7085 Band edge
: 6G WIFI 11AX40

		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 p 7085.000	20.13	35.77	30.55	93.16	118.51	88.20	30.31	peak	
2 7250.000	20.16	35.70	30.47	33.79	59.18	74.00	-14.82	peak	



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

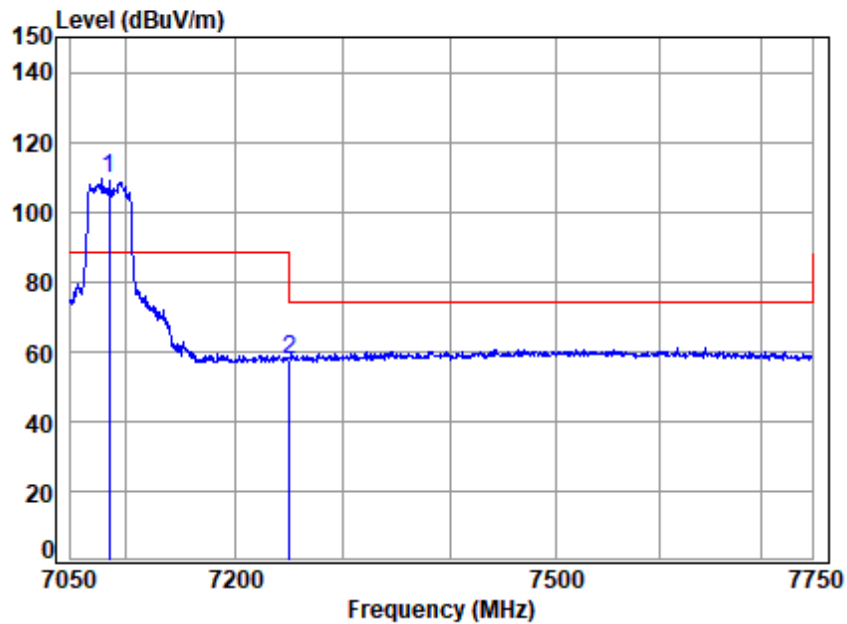


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 7085 Band edge
: 6G WIFI 11AX40

		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 q 7085.000	20.13	35.77	30.55	84.80	110.15	68.20	41.95	Average
2 7250.000	20.16	35.70	30.47	22.96	48.35	54.00	-5.65	Average



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

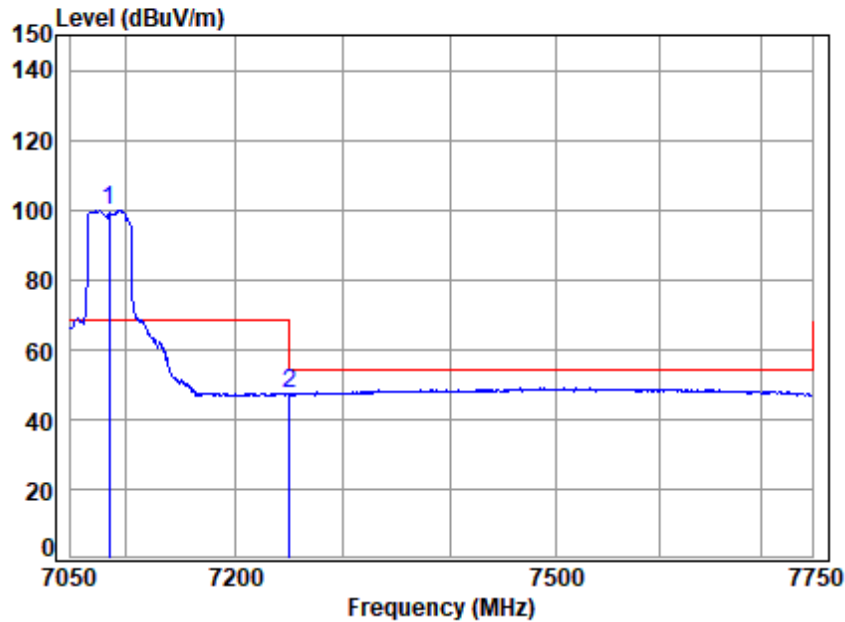


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 7085 Band edge
: 6G WIFI 11AX40

		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 p 7085.000	20.13	35.77	30.55	84.25	109.60	88.20	21.40	Peak
2 7250.000	20.16	35.70	30.47	32.42	57.81	74.00	-16.19	Peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High

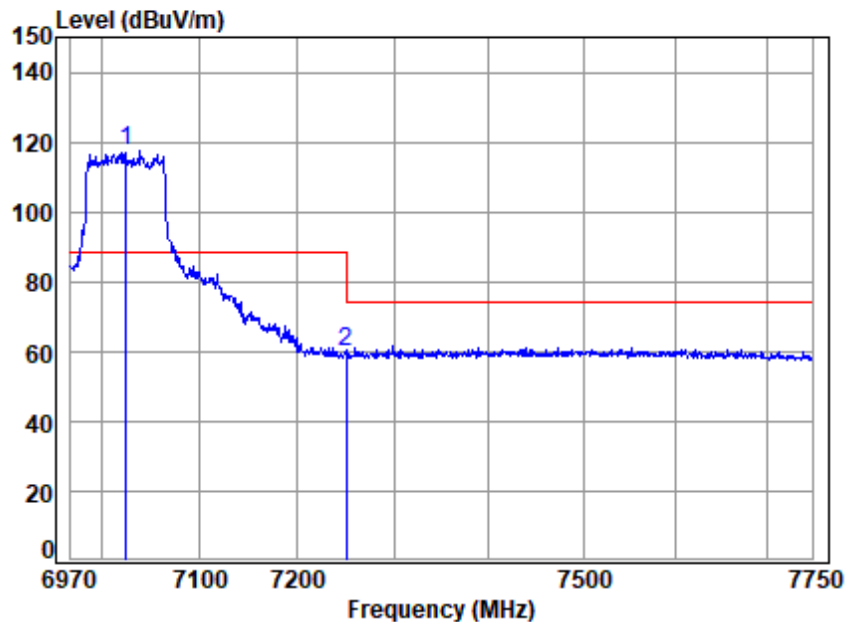


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 7085 Band edge
: 6G WIFI 11AX40

		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 q 7085.000	20.13	35.77	30.55	74.74	100.09	68.20	31.89	Average
2 7250.000	20.16	35.70	30.47	21.87	47.26	54.00	-6.74	Average



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High

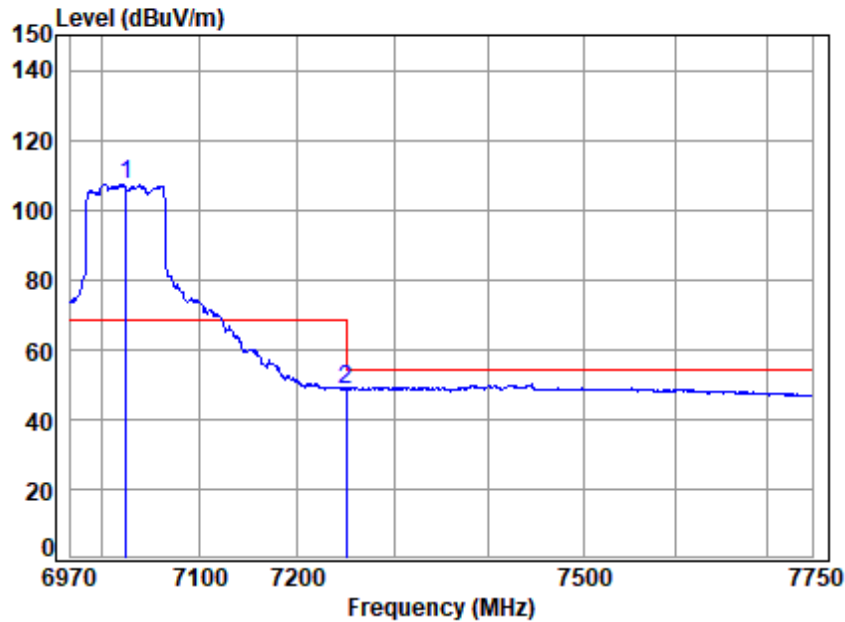


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 7025 Band edge
: 6G WIFI 11AX80

		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 p 7025.000	20.11	35.70	30.59	92.00	117.22	88.20	29.02	peak	
2 7250.000	20.16	35.70	30.47	34.29	59.68	74.00	-14.32	peak	



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High

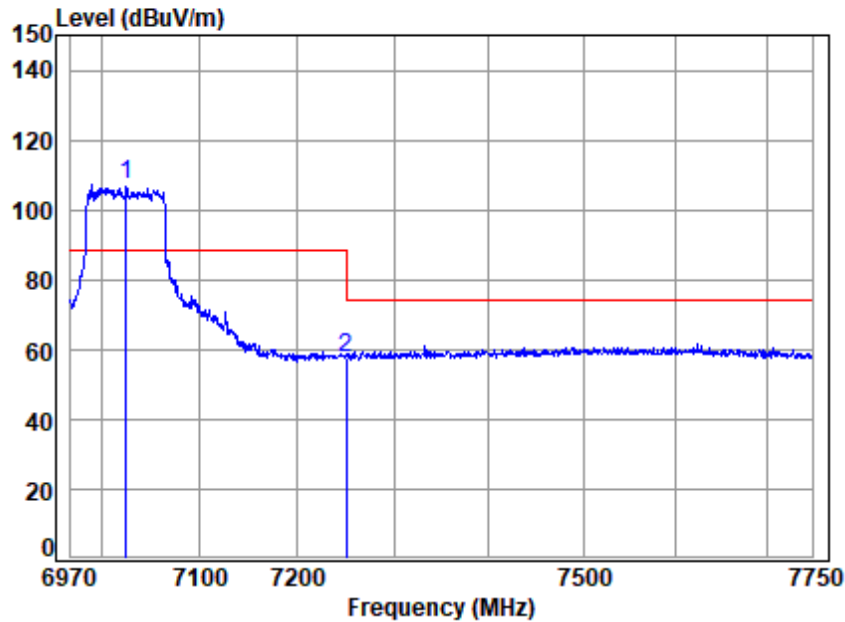


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 7025 Band edge
: 6G WIFI 11AX80

		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 q 7025.000		20.11	35.70	30.59	82.12	107.34	68.20	39.14	Average
2 7250.000		20.16	35.70	30.47	23.24	48.63	54.00	-5.37	Average



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High

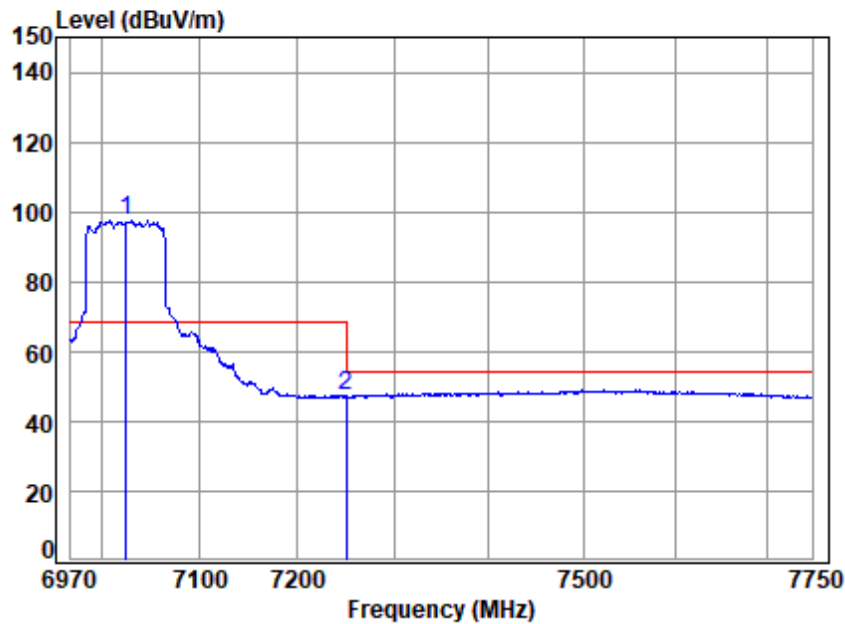


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 7025 Band edge
: 6G WIFI 11AX80

		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 p 7025.000	20.11	35.70	30.59	81.82	107.04	88.20	18.84	Peak	
2 7250.000	20.16	35.70	30.47	32.21	57.60	74.00	-16.40	Peak	



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:80MHz; Channel:High

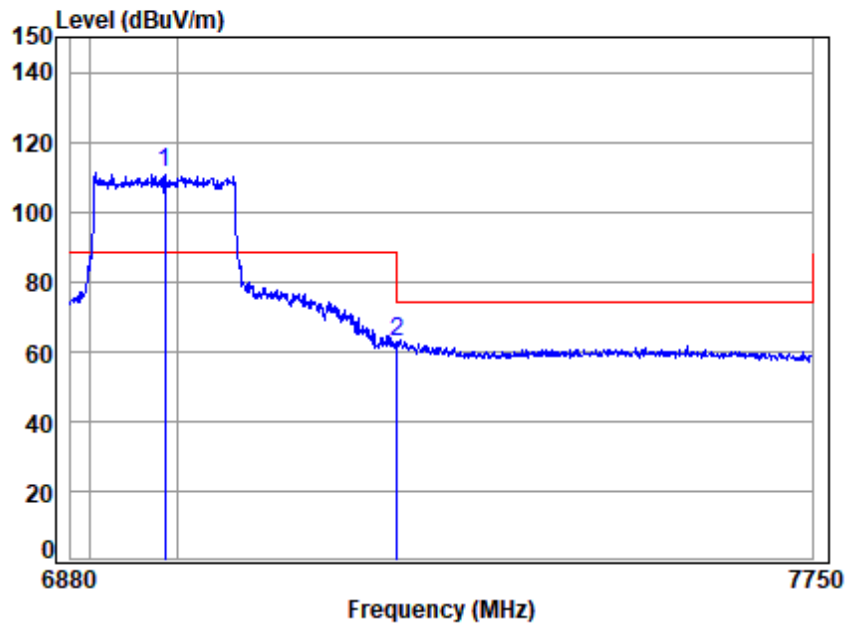


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 7025 Band edge
: 6G WIFI 11AX80

		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 q 7025.000	20.11	35.70	30.59	72.12	97.34	68.20	29.14	Average
2 7250.000	20.16	35.70	30.47	22.23	47.62	54.00	-6.38	Average



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High

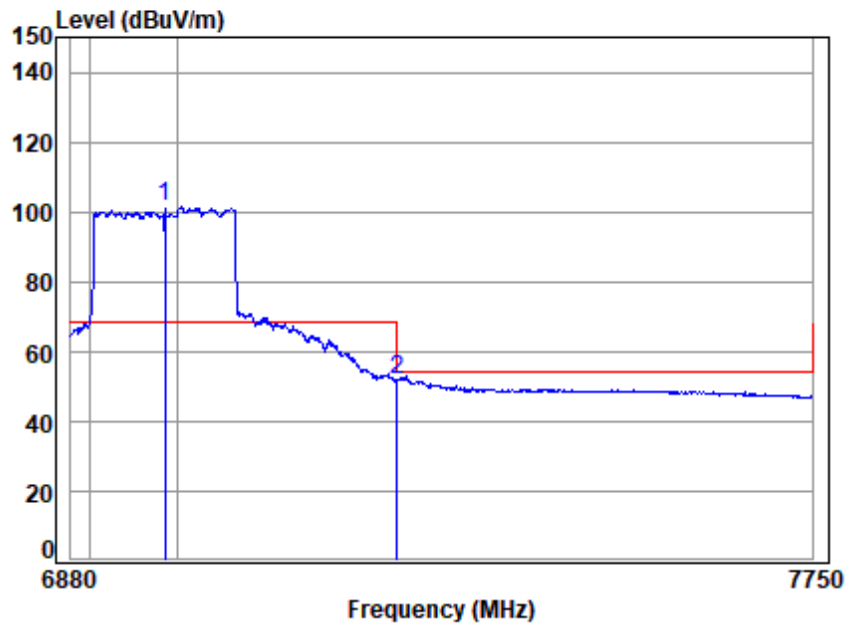


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6985 Band edge
: 6G WIFI 11AX160

		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 p 6985.000		20.10	35.73	30.62	86.02	111.23	88.20	23.03	peak
2 7250.000		20.16	35.70	30.47	37.18	62.57	74.00	-11.43	peak



Test Mode: 11; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High

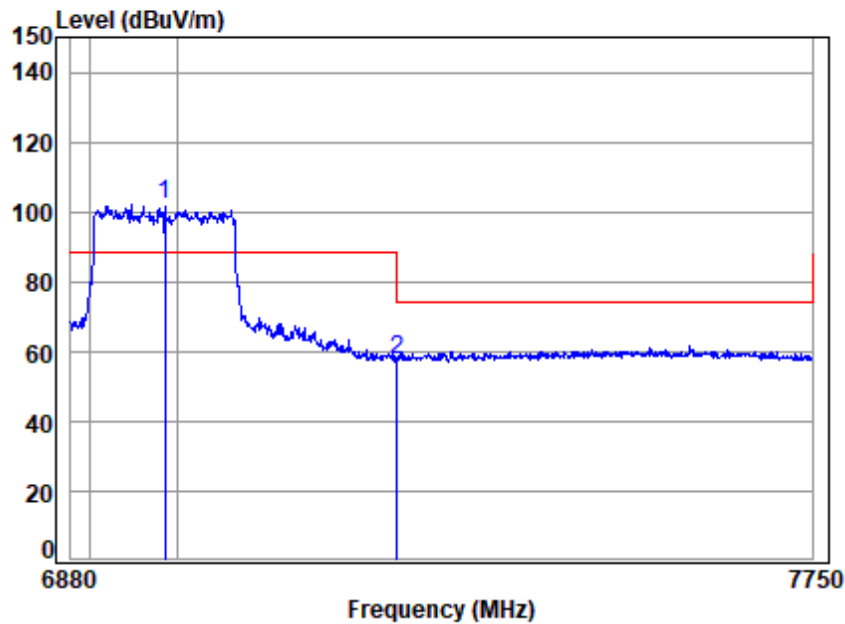


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6985 Band edge
: 6G WIFI 11AX160

		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 q 6985.000	20.10	35.73	30.62	76.18	101.39	68.20	33.19	Average
2 7250.000	20.16	35.70	30.47	26.32	51.71	54.00	-2.29	Average



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High

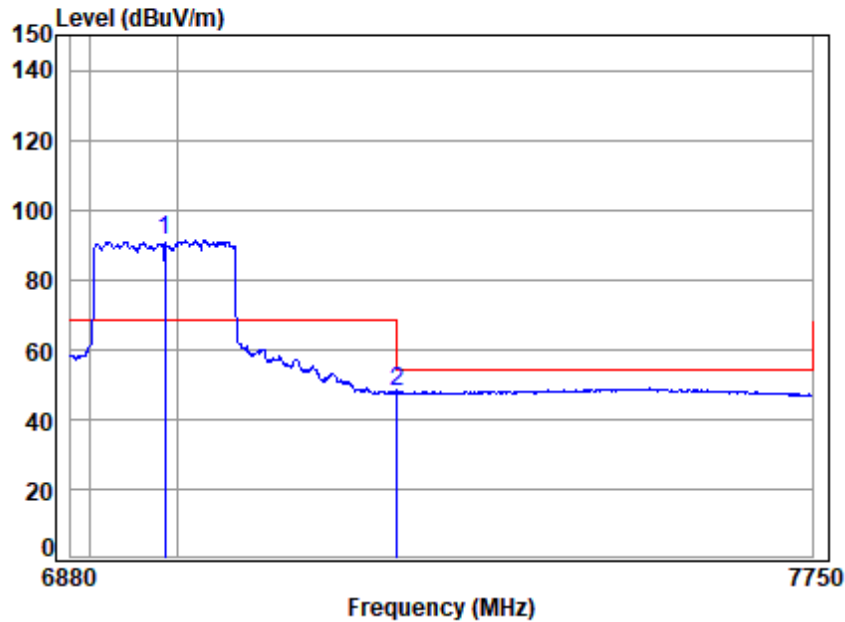


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6985 Band edge
: 6G WIFI 11AX160

		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 p 6985.000	20.10	35.73	30.62	76.67	101.88	88.20	13.68	Peak	
2 7250.000	20.16	35.70	30.47	32.36	57.75	74.00	-16.25	Peak	



Test Mode: 11; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:160MHz; Channel:High

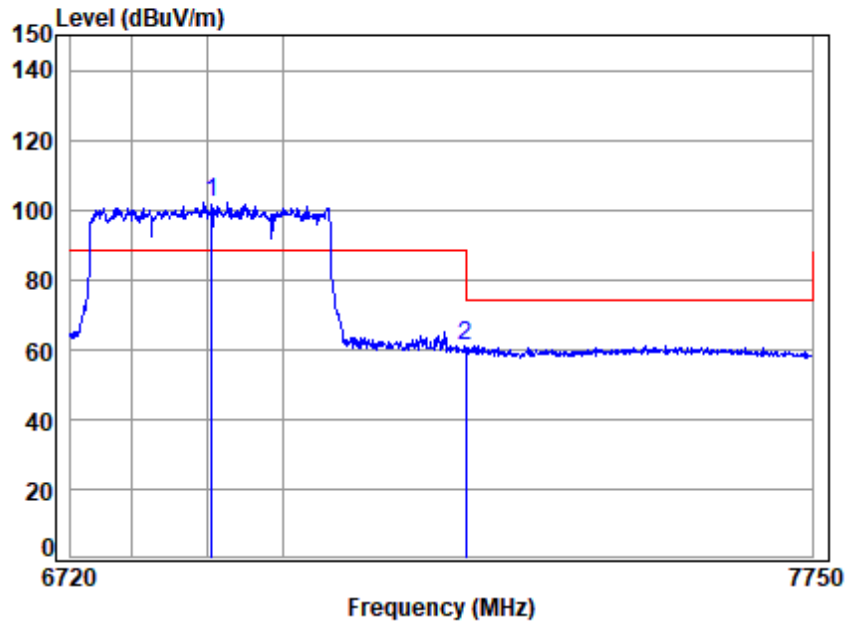


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6985 Band edge
: 6G WIFI 11AX160

		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 q 6985.000	20.10	35.73	30.62	66.18	91.39	68.20	23.19	Average
2 7250.000	20.16	35.70	30.47	22.42	47.81	54.00	-6.19	Average



Test Mode: 11; Polarity: Horizontal; Modulation:802.11be(Full RU0); Bandwidth:320MHz; Channel:High

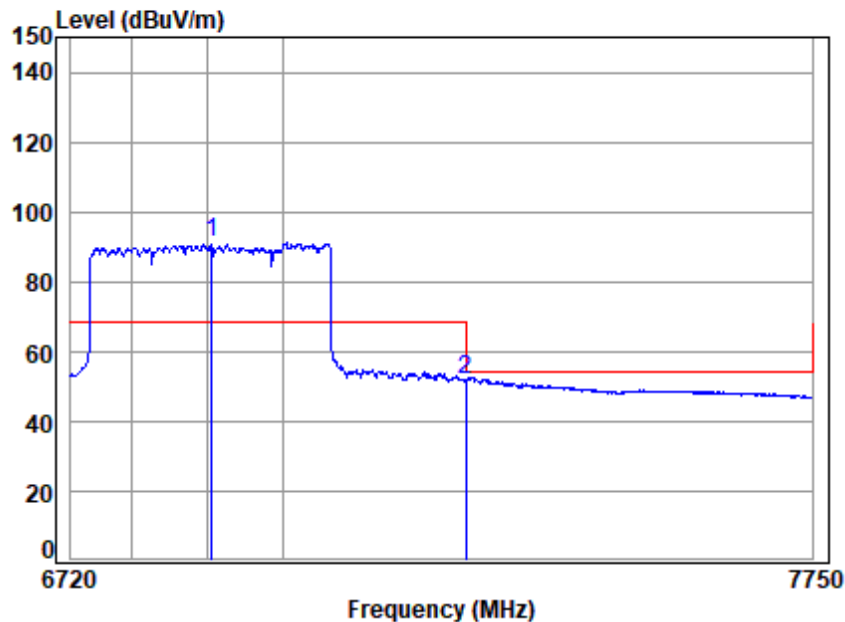


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6905 Band edge
: 6G WIFI 11BE320

		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 p 6905.000	20.05	35.62	30.70	77.33	102.30	88.20	14.10	peak	
2 7250.000	20.16	35.70	30.47	35.42	60.81	74.00	-13.19	peak	



Test Mode: 11; Polarity: Horizontal; Modulation:802.11be(Full RU0); Bandwidth:320MHz; Channel:High

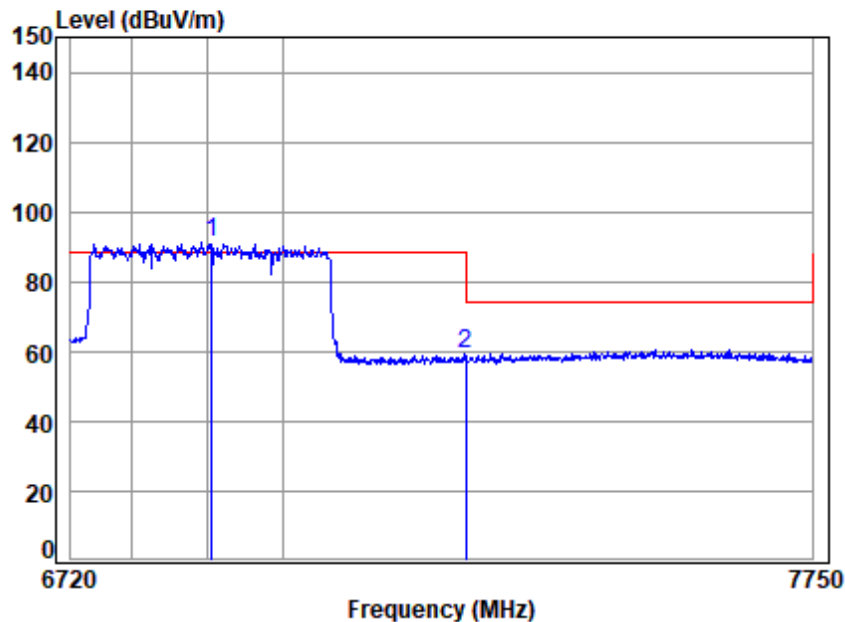


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03476TL\03477TL
Mode : 6905 Band edge
: 6G WIFI 11BE320

		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 q 6905.000	20.05	35.62	30.70	66.15	91.12	68.20	22.92	Average
2 7250.000	20.16	35.70	30.47	26.71	52.10	54.00	-1.90	Average



Test Mode: 11; Polarity: Vertical; Modulation:802.11be(Full RU0); Bandwidth:320MHz; Channel:High

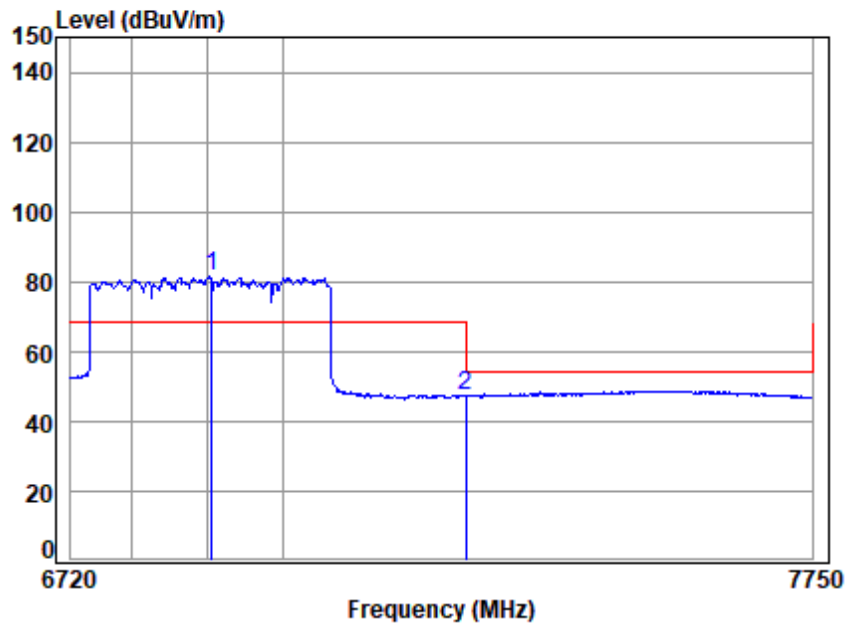


Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6905 Band edge
: 6G WIFI 11BE320

		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 p 6905.000	20.05	35.62	30.70	66.38	91.35	88.20	3.15	Peak
2 7250.000	20.16	35.70	30.47	33.93	59.32	74.00	-14.68	Peak



Test Mode: 11; Polarity: Vertical; Modulation:802.11be(Full RU0); Bandwidth:320MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03476TL\03477TL
Mode : 6905 Band edge
: 6G WIFI 11BE320

		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 q 6905.000	20.05	35.62	30.70	56.46	81.43	68.20	13.23	Average
2 7250.000	20.16	35.70	30.47	21.92	47.31	54.00	-6.69	Average



7.5 In-Band Emissions

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

Test Method: ANSI C63.10 (2020) Section 12.6

Limit:

For transmitters operating within the 5.925–7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and onehalf times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 19.9 °C

Humidity: 59.4 % RH

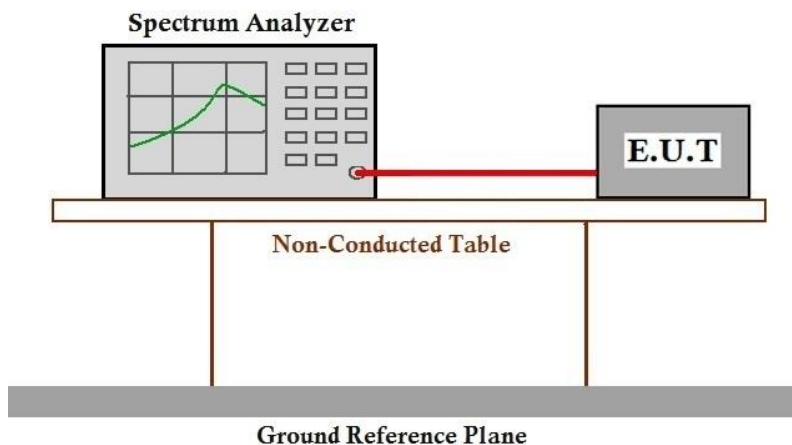
Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Contention-based Protocol

Test Requirement 47 CFR Part 15, Subpart E 15.407 (d)(6)

Test Method: KDB 987594 D02

Limit:

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C

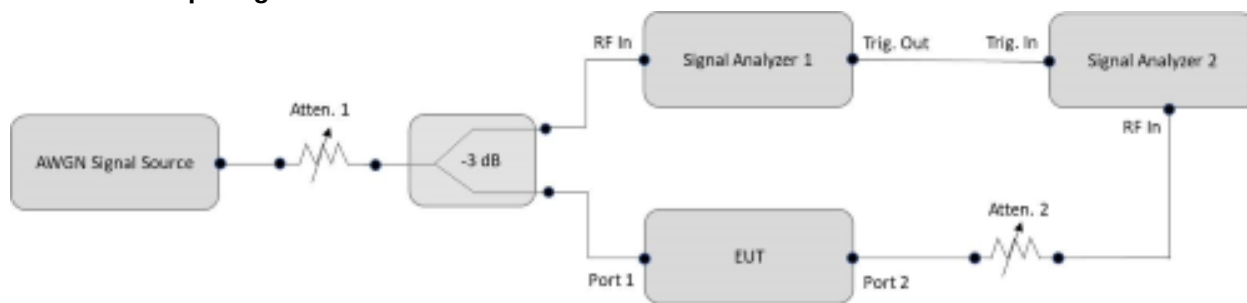
Humidity: 48.5 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Normal operating_Keep the EUT communication with the companion device.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Detection Level= Injected AWGN Power(dBm)- Antenna Gain(dBi)+ Path Loss(dB)

Please Refer to Appendix for Details

7.7 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2

Test Method: ANSI C63.10 (2020) Section 12.2

7.7.1 E.U.T. Operation

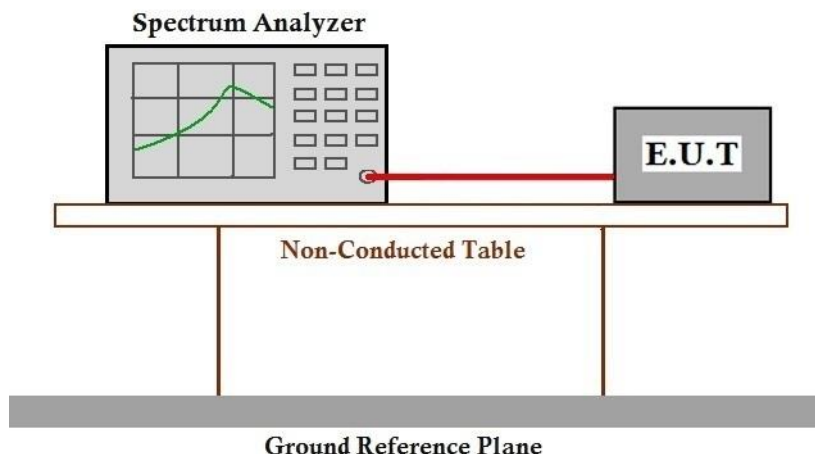
Operating Environment:

Temperature: 19.9 °C Humidity: 59.4 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.8 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2020) Section 12.5.3

7.8.1 E.U.T. Operation

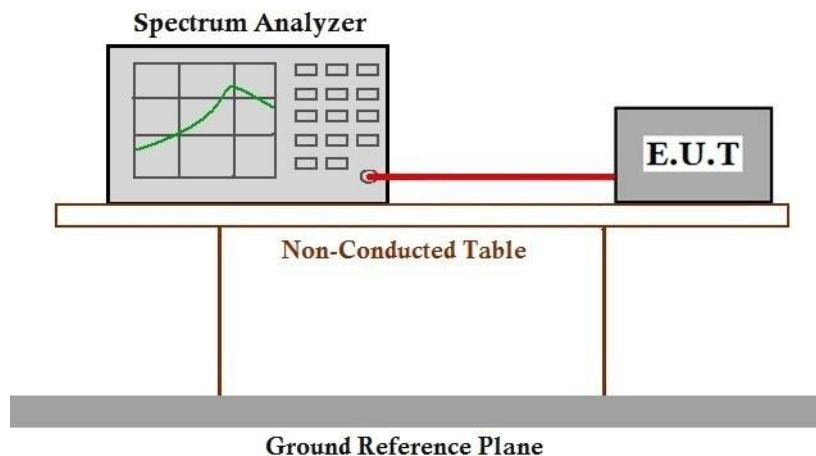
Operating Environment:

Temperature: 19.9 °C Humidity: 59.4 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 26dB Emission bandwidth

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

Test Method: ANSI C63.10 (2020) Section 12.5.2

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 19.9 °C

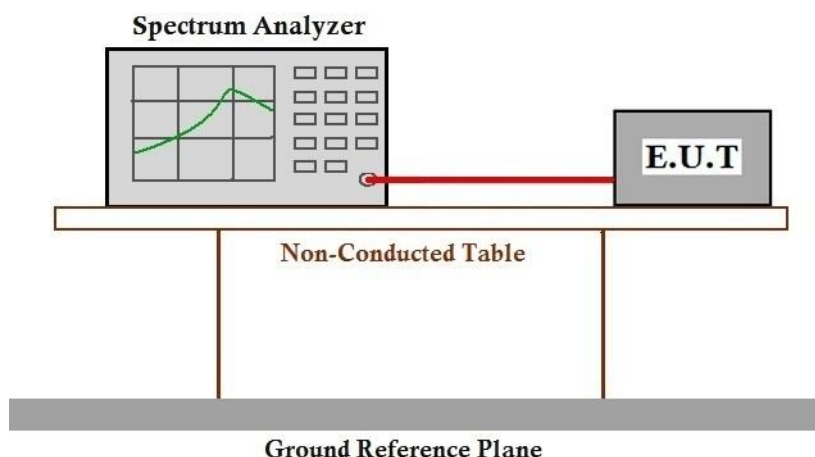
Humidity: 59.4 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.10 Maximum Conducted output power

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

Test Method: ANSI C63.10 (2020) Section 12.4

Limit:

Device Type	Frequency Range (MHz)	EIRP Limit (dBm)	EIRP PSD Limit(dBm/MHz)
LPI AP/ Subordinate	5925-7125	≤30	≤5
LPI Client Device And Dual Client controlled by LPI AP/ Subordinate	5925-7125	≤24	≤-1
Dual Client controlled by Standard Power AP	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Standard Power AP And Fixed Client Devices	5925-6425; 6525-6875	≤36 (21dBm for elevation angle greater than 30 degrees above the horizon)	≤23
Standard Client Devices	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Very Low-Power Devices	5925-6425; 6525-6875	≤14	≤-5 shall demonstrate the TPC capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/MHz.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 19.9 °C

Humidity: 59.4 % RH

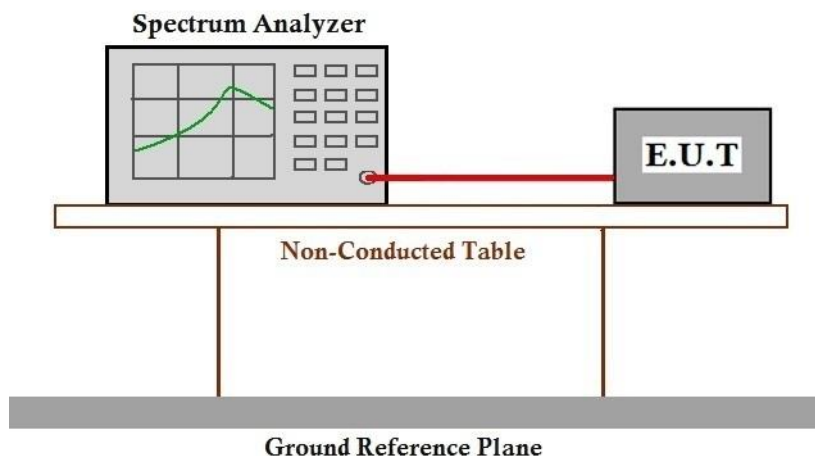
Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

$$\text{AV Output power Level} = \text{Reading level} + \text{Cable loss} + \text{DCCF}$$

Please Refer to Appendix for Details

7.11 Peak Power spectrum density

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

Test Method: ANSI C63.10 (2020) Section 12.6

Limit:

Device Type	Frequency Range (MHz)	EIRP Limit (dBm)	EIRP PSD Limit(dBm/MHz)
LPI AP/ Subordinate	5925-7125	≤30	≤5
LPI Client Device And Dual Client controlled by LPI AP/ Subordinate	5925-7125	≤24	≤-1
Dual Client controlled by Standard Power AP	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Standard Power AP And Fixed Client Devices	5925-6425; 6525-6875	≤36 (21dBm for elevation angle greater than 30 degrees above the horizon)	≤23
Standard Client Devices	5925-6425; 6525-6875	30 max & 6dB below Std. AP	17 max & 6dB below Std. AP
Very Low-Power Devices	5925-6425; 6525-6875	≤14	≤-5 shall demonstrate the TPC capability to operate at least 6 dB below the maximum EIRP PSD value of -5 dBm/MHz.

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 19.9 °C

Humidity: 59.4 % RH

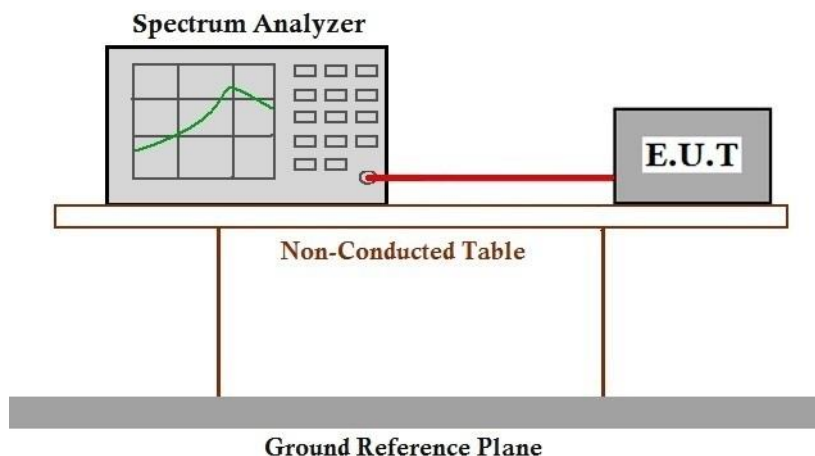
Atmospheric Pressure: 1020 mbar



7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.12 Frequency Stability

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

Test Method: ANSI C63.10 (2020) Section 6.8

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 19.9 °C

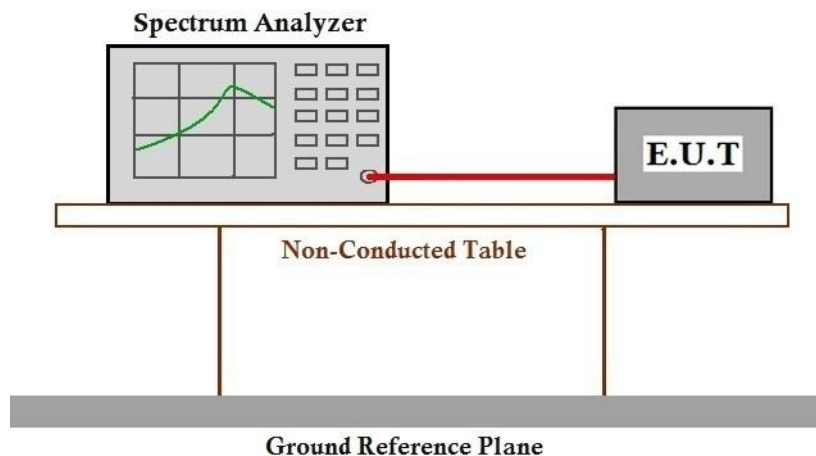
Humidity: 59.4 % RH

Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-5) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-6) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-7) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-8) _Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

7.12.3 Test Setup Diagram



7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2508003476TL

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2508003476TL

10 Appendix

WIFI7

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11be (EHT20)	MIMO	5955	RU242	Left	5.454	5.636	96.77	0.14	1.89
			6175	RU242	Left	5.454	5.636	96.77	0.14	2.21
			6415	RU242	Left	5.468	5.644	96.88	0.14	2.07
	802.11be (EHT40)	MIMO	5965	RU484	Left	5.452	5.644	96.60	0.15	2.06
			6165	RU484	Left	5.454	5.644	96.63	0.15	2.35
			6405	RU484	Left	5.452	5.616	97.08	0.13	1.90
	802.11be (EHT80)	MIMO	5985	RU996	Left	5.452	5.634	96.77	0.14	1.89
			6145	RU996	Left	5.454	5.636	96.77	0.14	1.57
			6385	RU996	Left	5.452	5.626	96.91	0.14	1.75
	802.11be (EHT160)	MIMO	6025	2xRU996	Left	5.452	5.644	96.60	0.15	1.74
			6185	2xRU996	Left	5.452	5.626	96.91	0.14	1.58
			6345	2xRU996	Left	5.452	5.608	97.22	0.12	1.41
	802.11be (EHT320)	MIMO	6105	4xRU996	Left	5.456	5.594	97.53	0.11	1.27
			6265	4xRU996	Left	5.458	5.630	96.94	0.13	1.72

1.1.2 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11be (EHT20)	MIMO	6435	RU242	Left	5.454	5.644	96.63	0.15	2.35
			6475	RU242	Left	5.454	5.644	96.63	0.15	2.35
			6515	RU242	Left	5.452	5.616	97.08	0.13	1.76
	802.11be (EHT40)	MIMO	6445	RU484	Left	5.453	5.626	96.92	0.14	1.42
			6485	RU484	Left	5.452	5.644	96.60	0.15	2.39



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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 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

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800347606

Page: 98 of 955

802.11be (EHT80)	MIMO	6465	RU996	Left	5.452	5.616	97.08	0.13	1.44
---------------------	------	------	-------	------	-------	-------	-------	------	------

1.1.3 Ant1

Ant1										
ENV	Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11be (EHT20)	MIMO	6535	RU242	Left	5.452	5.634	96.77	0.14	2.21
			6695	RU242	Left	5.452	5.626	96.91	0.14	1.93
			6855	RU242	Left	5.452	5.644	96.60	0.15	1.89
	802.11be (EHT40)	MIMO	6565	RU484	Left	5.452	5.608	97.22	0.12	1.77
			6685	RU484	Left	5.454	5.636	96.77	0.14	1.89
			6845	RU484	Left	5.466	5.608	97.47	0.11	1.77
	802.11be (EHT80)	MIMO	6625	RU996	Left	5.452	5.634	96.77	0.14	1.89
			6705	RU996	Left	5.452	5.626	96.91	0.14	1.58
			6785	RU996	Left	5.452	5.636	96.74	0.14	1.75
	802.11be (EHT160)	MIMO	6665	2xRU996	Left	5.452	5.626	96.91	0.14	1.93

1.1.4 Ant1

Ant1										
ENV	Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11be (EHT20)	MIMO	6895	RU242	Left	5.455	5.645	96.63	0.15	1.72
			6995	RU242	Left	5.454	5.626	96.94	0.13	1.86
			7115	RU242	Left	5.466	5.644	96.85	0.14	2.39
	802.11be (EHT40)	MIMO	6925	RU484	Left	5.454	5.636	96.77	0.14	1.57
			7005	RU484	Left	5.452	5.636	96.74	0.14	2.21
			7085	RU484	Left	5.452	5.616	97.08	0.13	1.90
	802.11be (EHT80)	MIMO	6945	RU996	Left	5.452	5.644	96.60	0.15	2.39
			7025	RU996	Left	5.452	5.626	96.91	0.14	1.58
	802.11be (EHT160)	MIMO	6985	2xRU996	Left	5.452	5.644	96.60	0.15	2.39



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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.: SZCR250800347606

Page: 99 of 955

1.1.5 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11be (EHT20)	MIMO	6875	RU242	Left	5.468	5.644	96.88	0.14	2.07
	802.11be (EHT40)	MIMO	6885	RU484	Left	5.454	5.618	97.08	0.13	1.90
	802.11be (EHT80)	MIMO	6865	RU996	Left	5.452	5.598	97.39	0.11	1.41
	802.11be (EHT160)	MIMO	6825	2xRU996	Left	5.452	5.644	96.60	0.15	1.42
	802.11be (EHT320)	MIMO	6745	4xRU996	Left	5.456	5.630	96.91	0.14	1.40
			6905	4xRU996	Left	5.456	5.648	96.60	0.15	1.88

1.1.6 Ant1

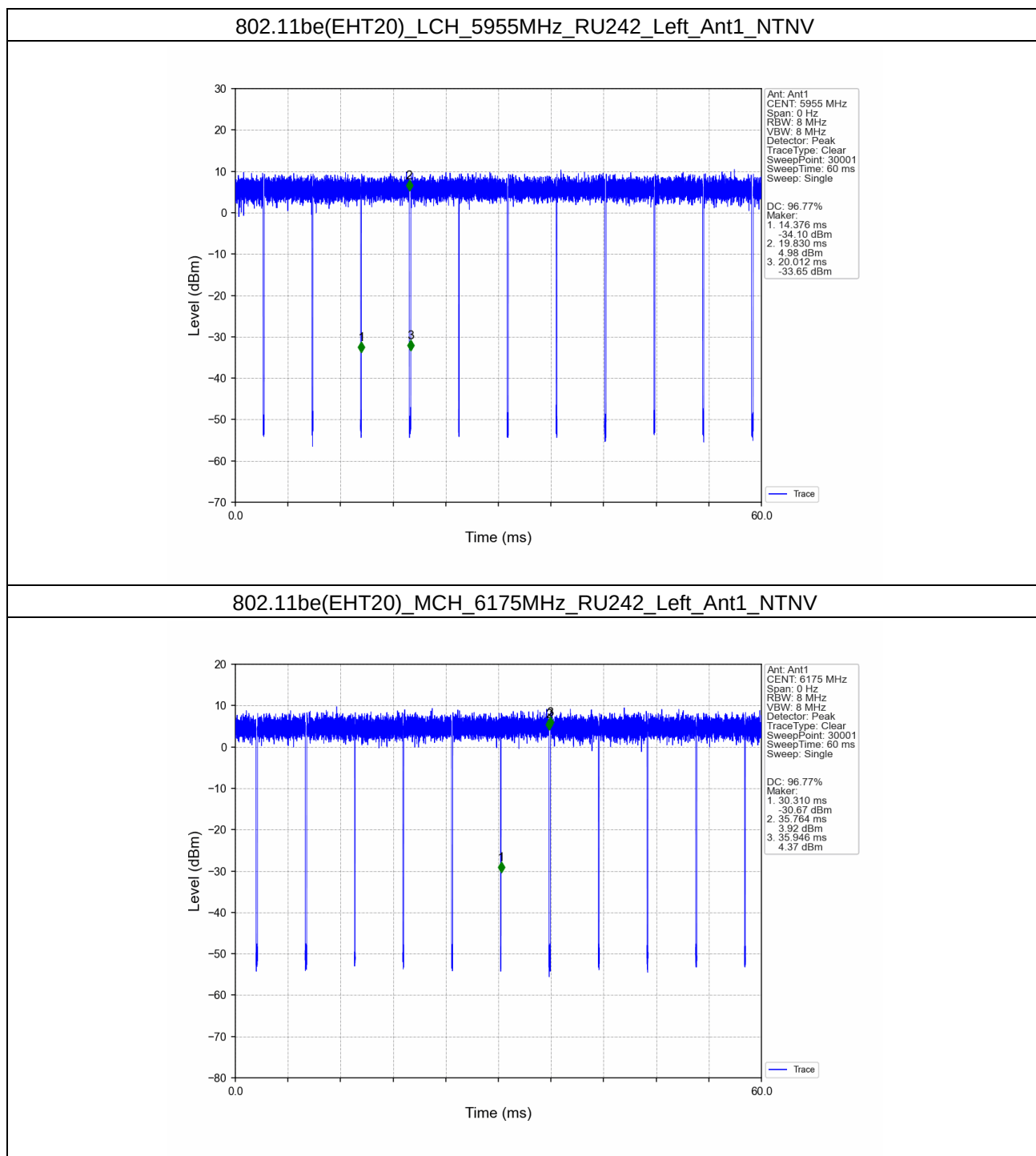
Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11be (EHT40)	MIMO	6525	RU484	Left	5.452	5.618	97.05	0.13	1.94
	802.11be (EHT80)	MIMO	6545	RU996	Left	5.454	5.626	96.94	0.13	1.90
	802.11be (EHT160)	MIMO	6505	2xRU996	Left	5.452	5.626	96.91	0.14	1.93
	802.11be (EHT320)	MIMO	6585	4xRU996	Left	5.456	5.639	96.75	0.14	1.76

1.1.7 Ant1

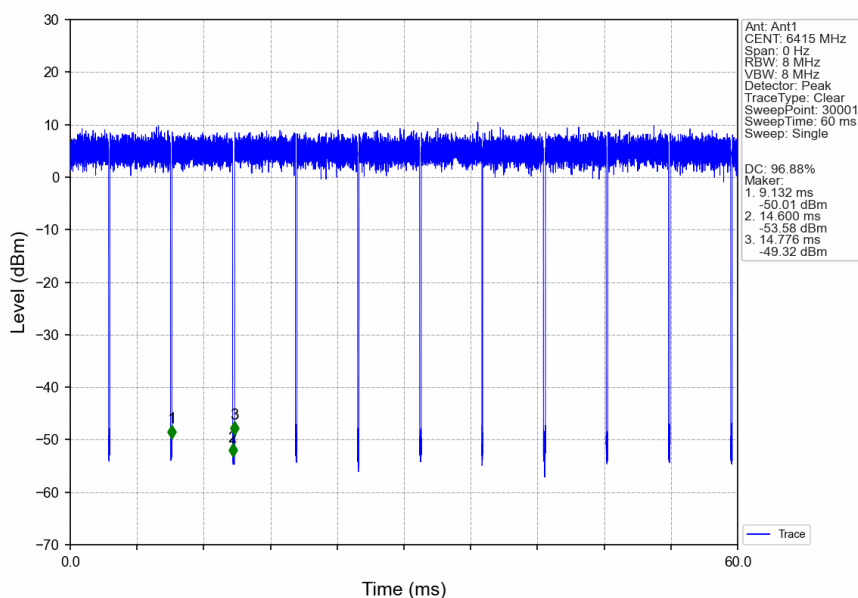
Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11be (EHT320)	MIMO	6425	4xRU996	Left	5.455	5.594	97.52	0.11	1.28

1.2 Test Graph

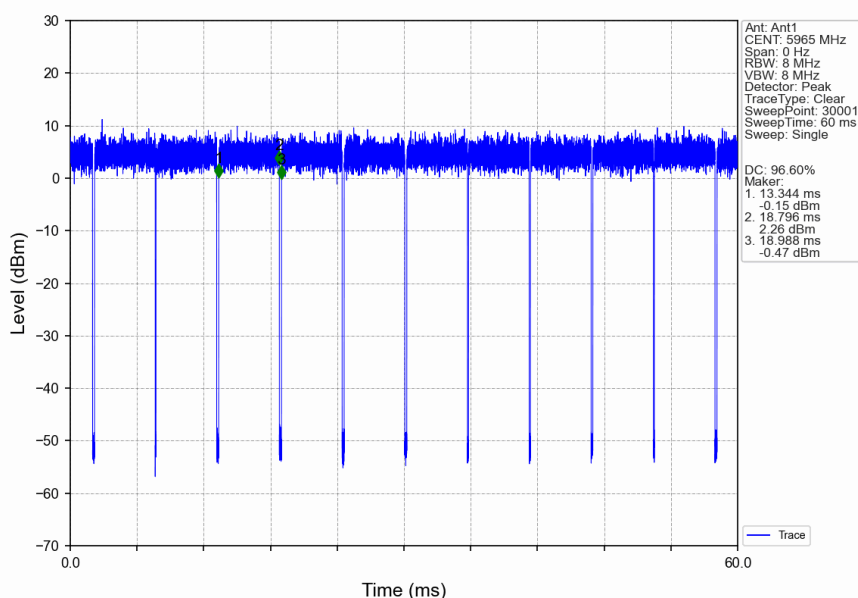
1.2.1 Ant1



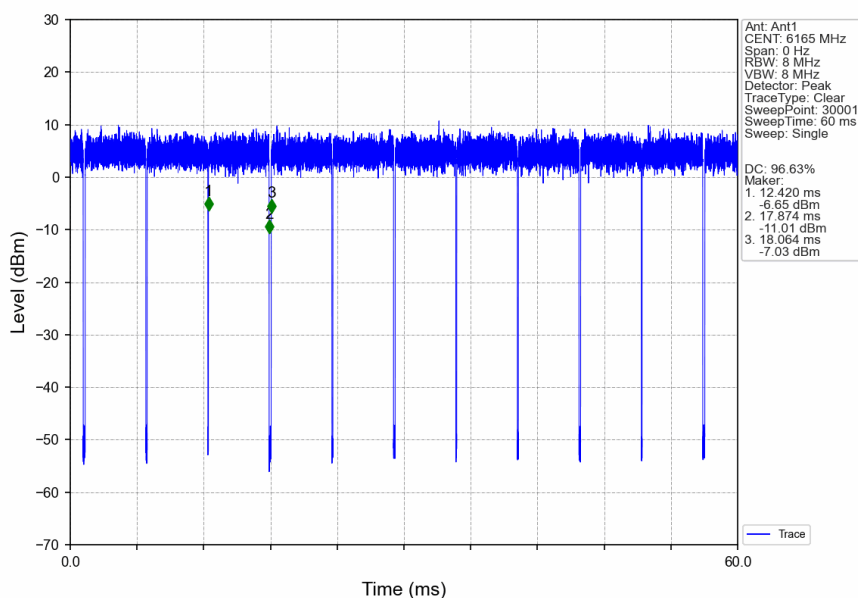
802.11be(EHT20)_HCH_6415MHz_RU242_Left_Ant1_NTNV



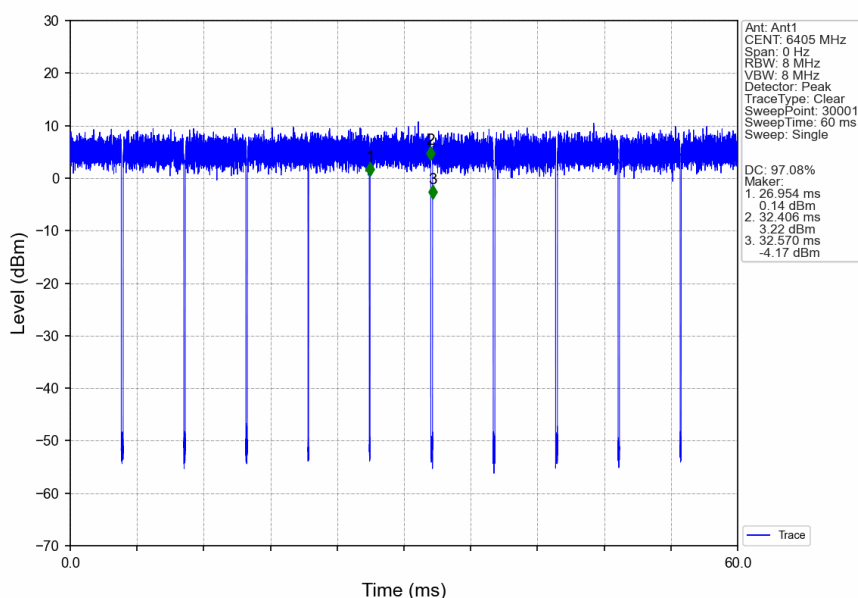
802.11be(EHT40)_LCH_5965MHz_RU484_Left_Ant1_NTNV



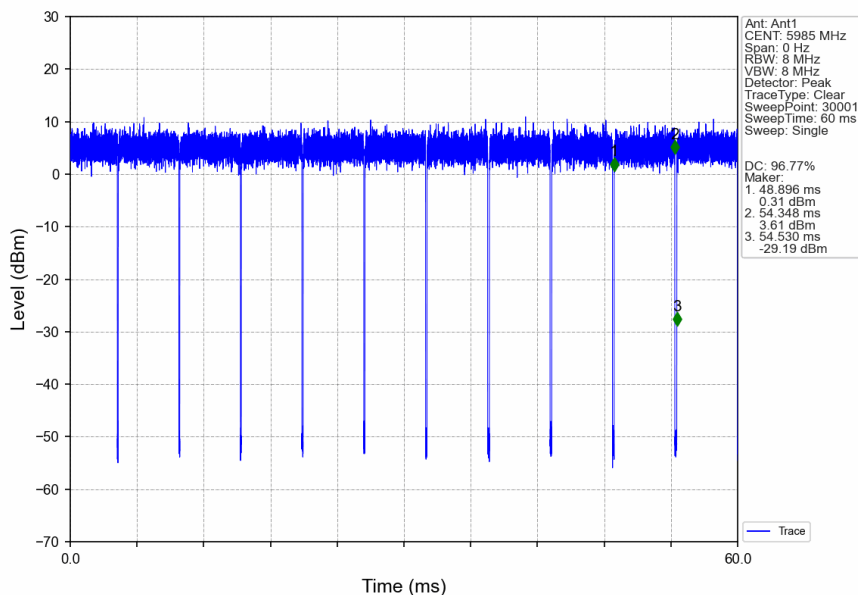
802.11be(EHT40)_MCH_6165MHz_RU484_Left_Ant1_NTNV



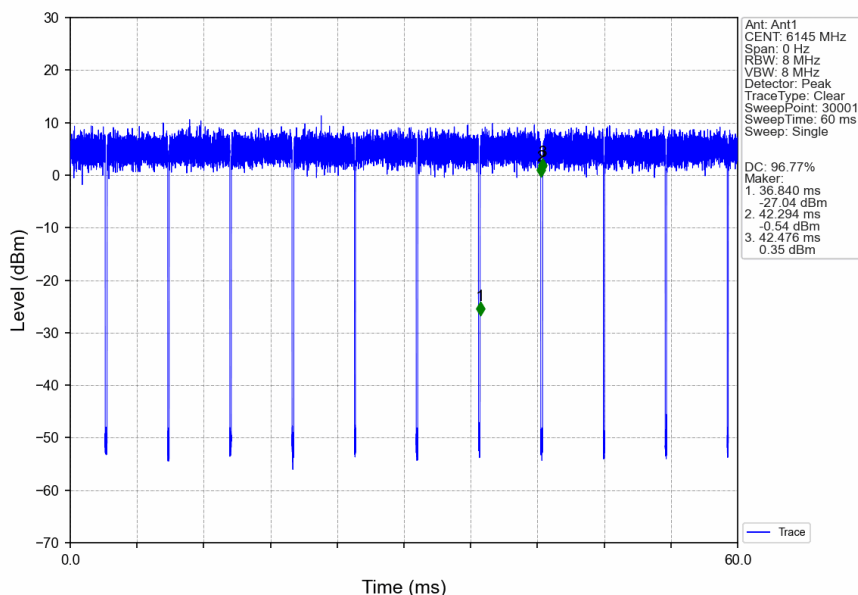
802.11be(EHT40)_HCH_6405MHz_RU484_Left_Ant1_NTNV



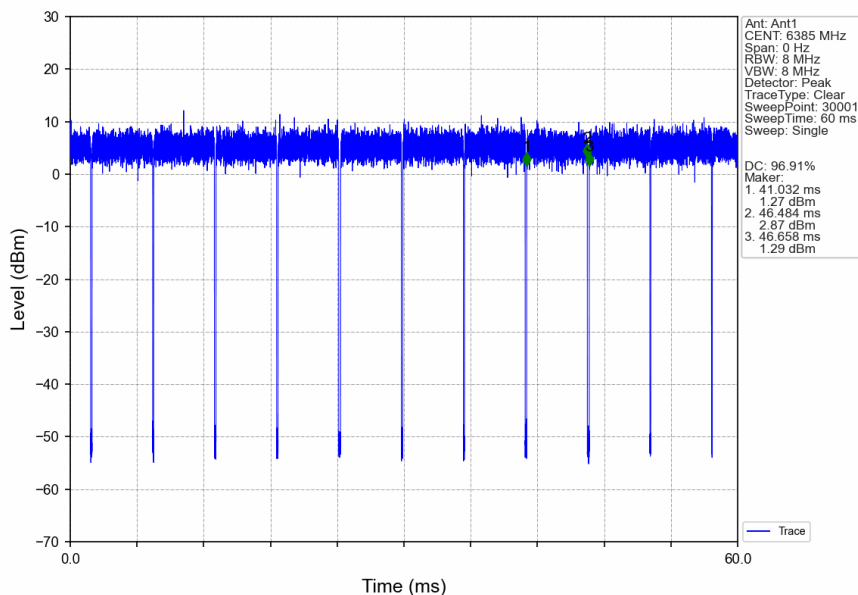
802.11be(EHT80)_LCH_5985MHz_RU996_Left_Ant1_NTNV



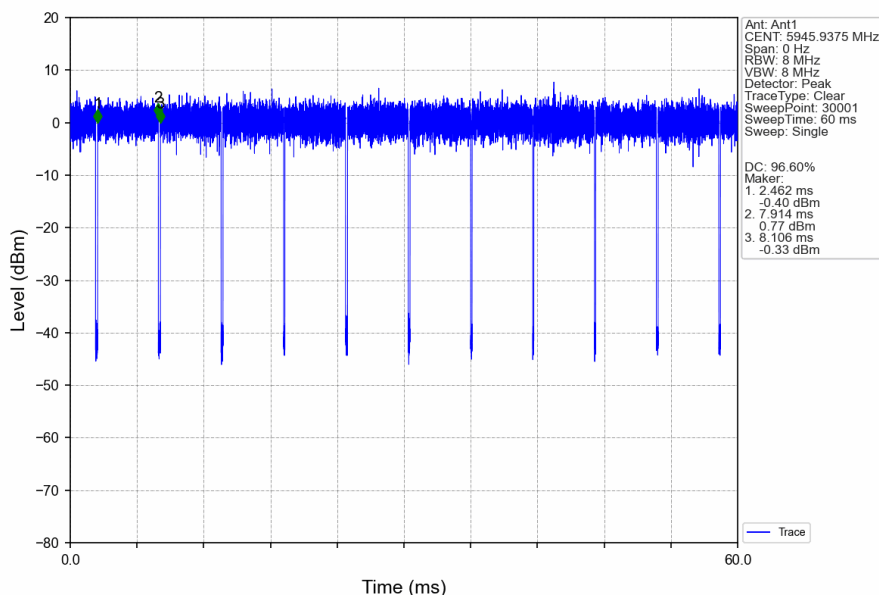
802.11be(EHT80)_MCH_6145MHz_RU996_Left_Ant1_NTNV



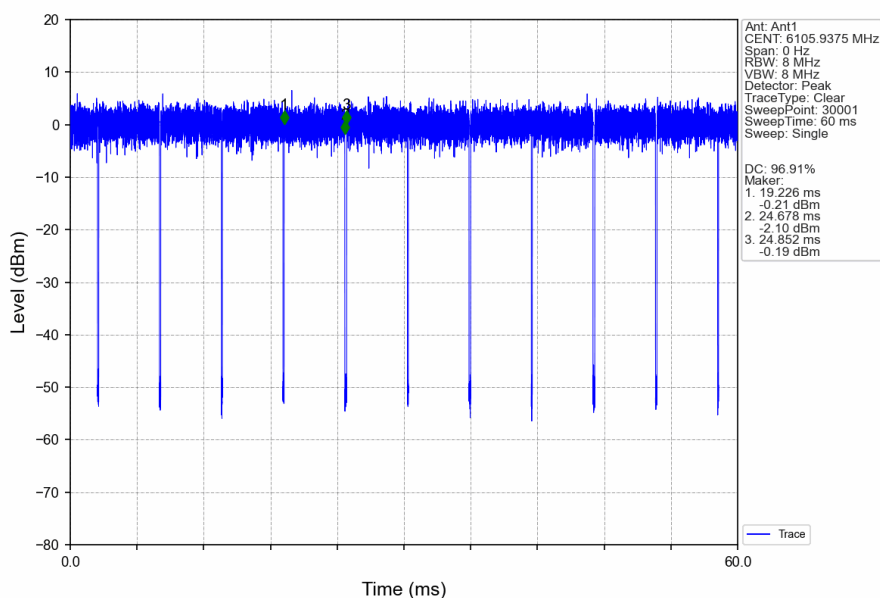
802.11be(EHT80)_HCH_6385MHz_RU996_Left_Ant1_NTNV



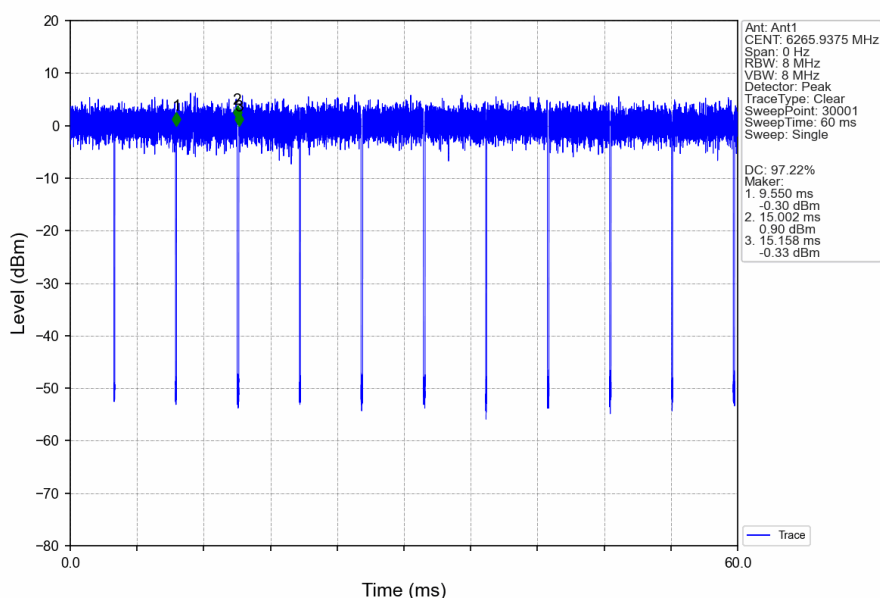
802.11be(EHT160)_LCH_6025MHz_2xRU996_Left_Ant1_NTNV



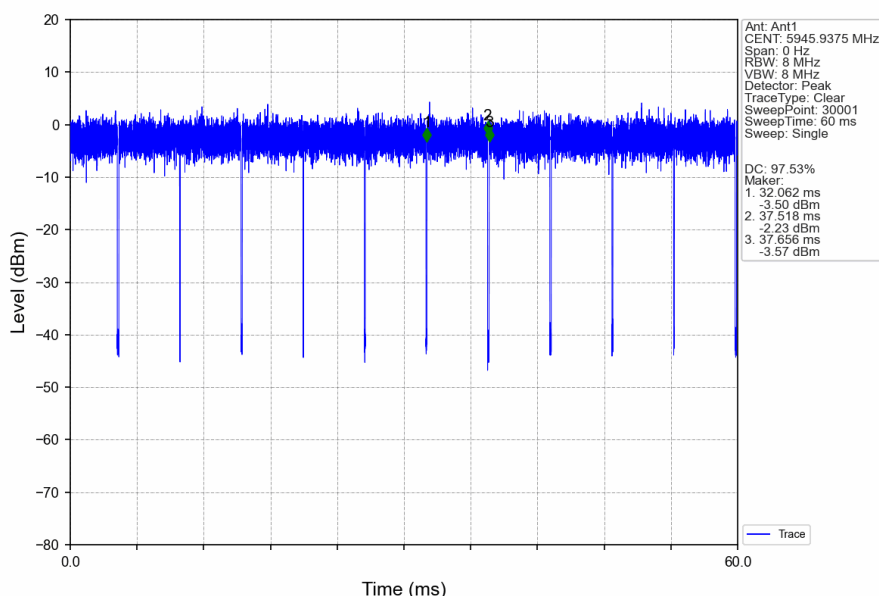
802.11be(EHT160)_MCH_6185MHz_2xRU996_Left_Ant1_NTNV



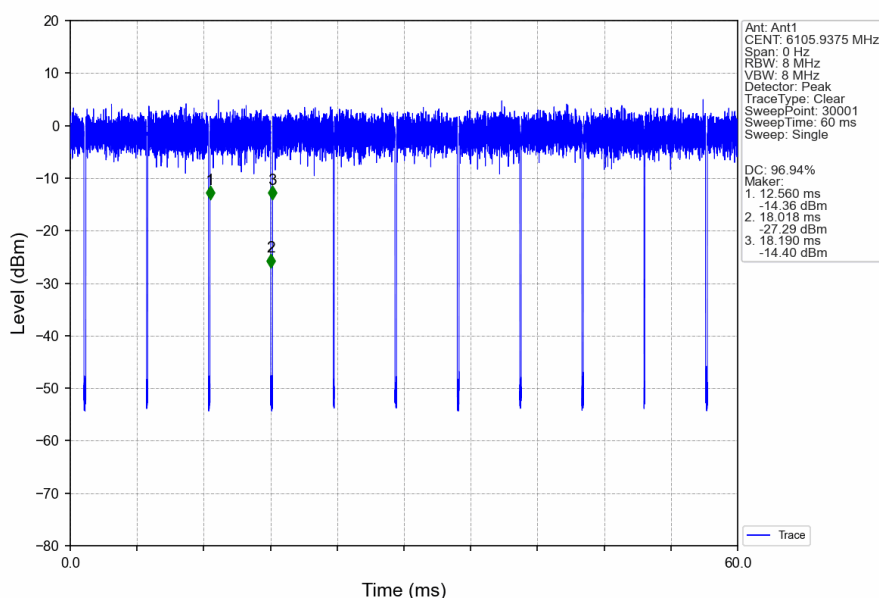
802.11be(EHT160)_HCH_6345MHz_2xRU996_Left_Ant1_NTNV



802.11be(EHT320)_LCH_6105MHz_4xRU996_Left_Ant1_NTNV

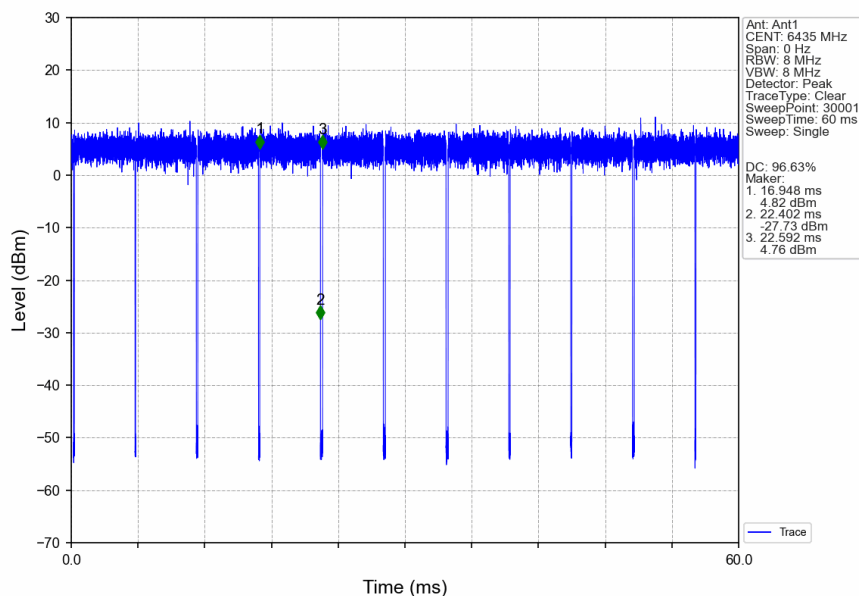


802.11be(EHT320)_HCH_6265MHz_4xRU996_Left_Ant1_NTNV

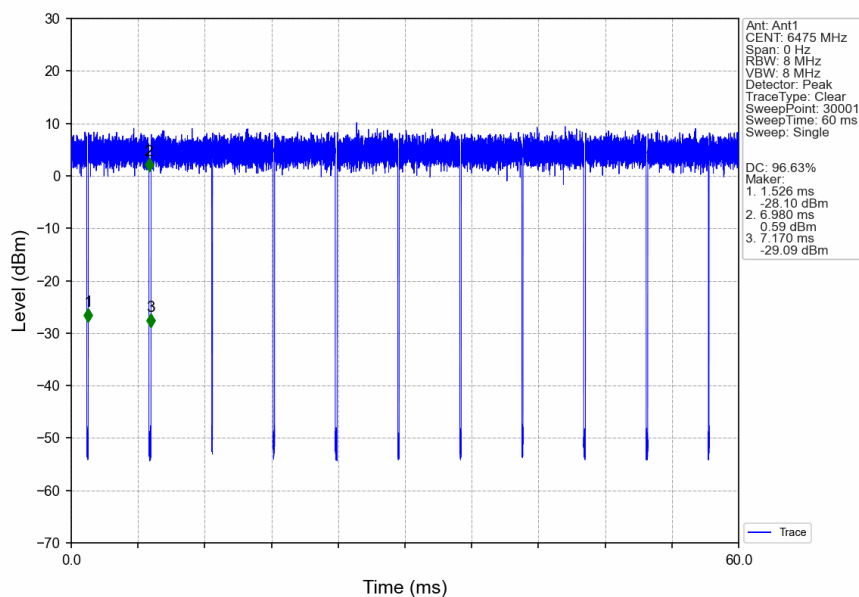


1.2.2 Ant1

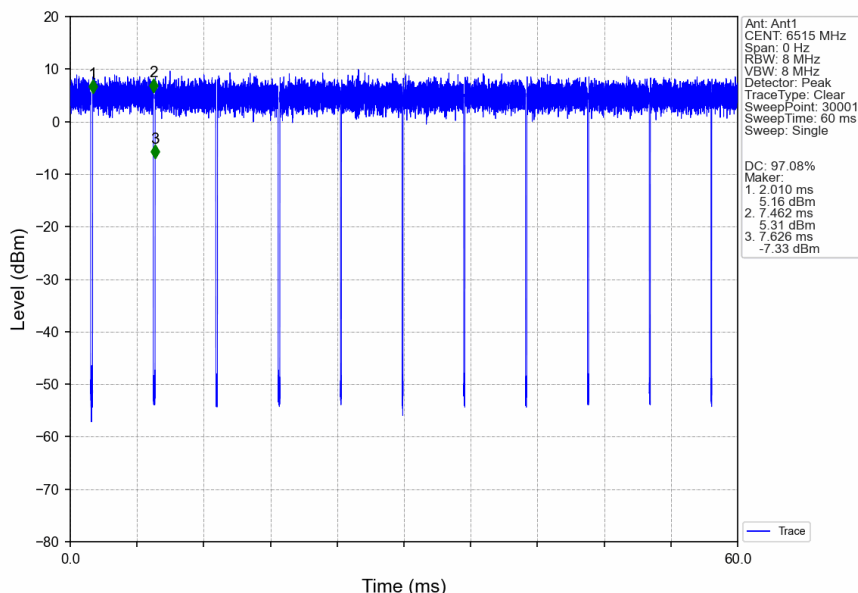
802.11be(EHT20)_LCH_6435MHz_RU242_Left_Ant1_NTNV



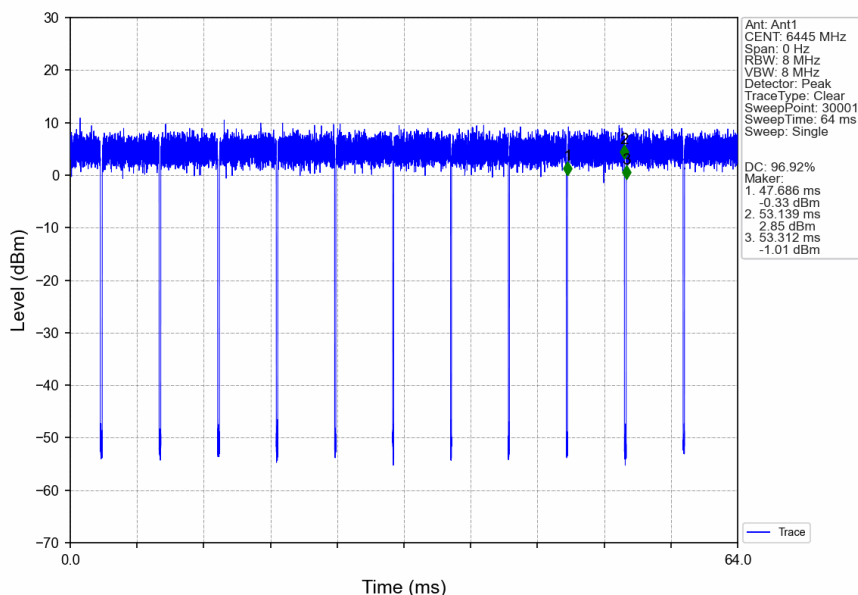
802.11be(EHT20)_MCH_6475MHz_RU242_Left_Ant1_NTNV



802.11be(EHT20)_HCH_6515MHz_RU242_Left_Ant1_NTNV



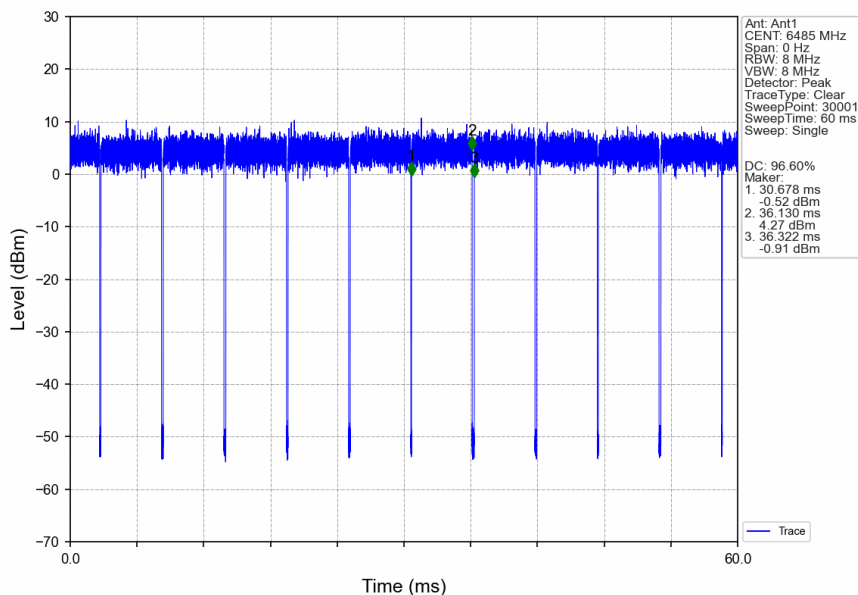
802.11be(EHT40)_LCH_6445MHz_RU484_Left_Ant1_NTNV



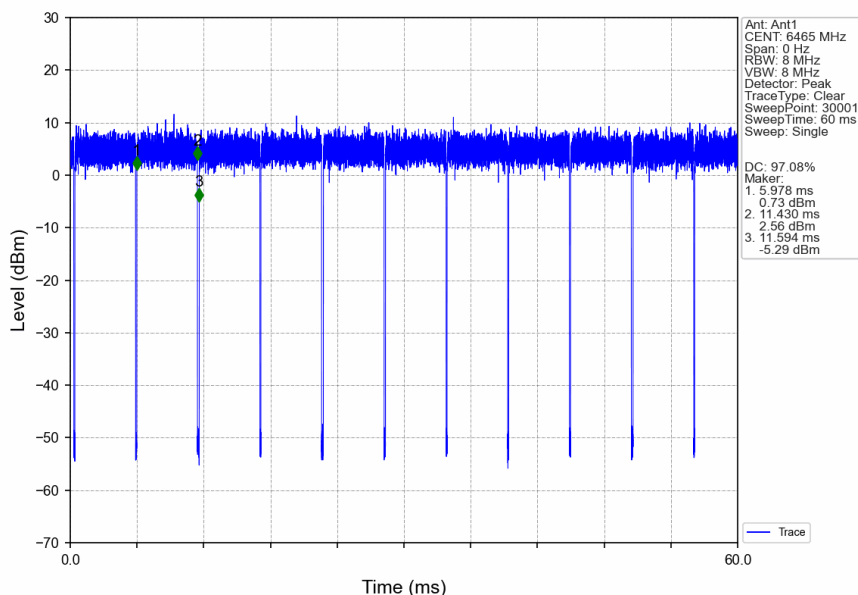
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

802.11be(EHT40)_MCH_6485MHz_RU484_Left_Ant1_NTNV

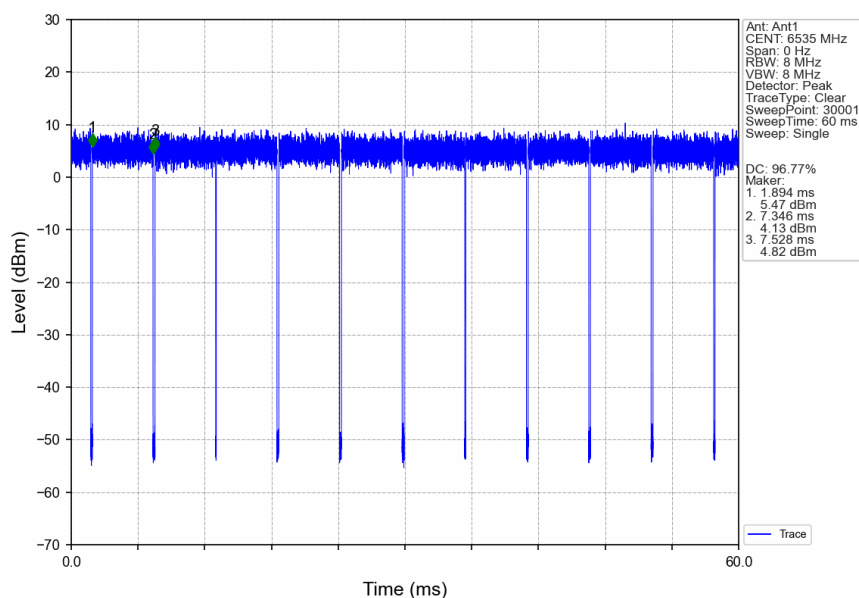


802.11be(EHT80)_LCH_6465MHz_RU996_Left_Ant1_NTNV

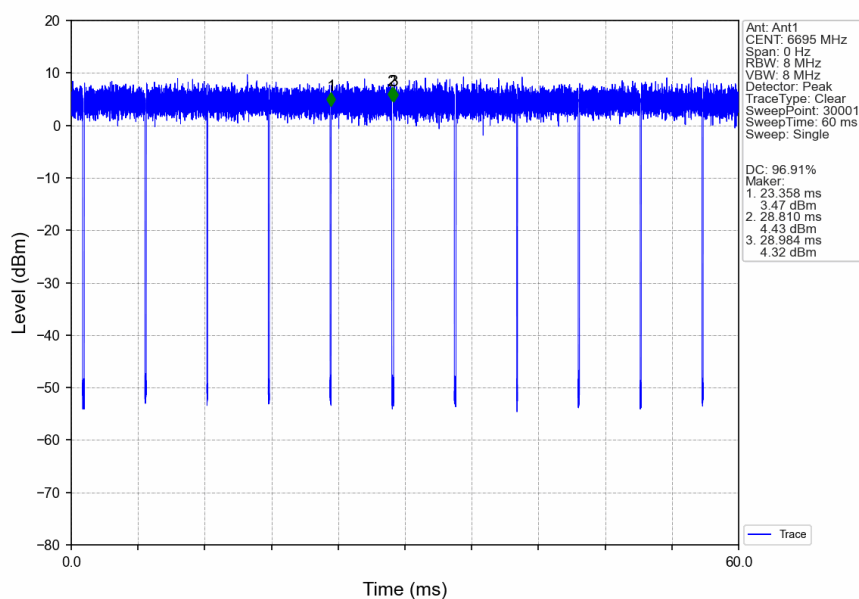


1.2.3 Ant1

802.11be(EHT20)_LCH_6535MHz_RU242_Left_Ant1_NTNV



802.11be(EHT20)_MCH_6695MHz_RU242_Left_Ant1_NTNV



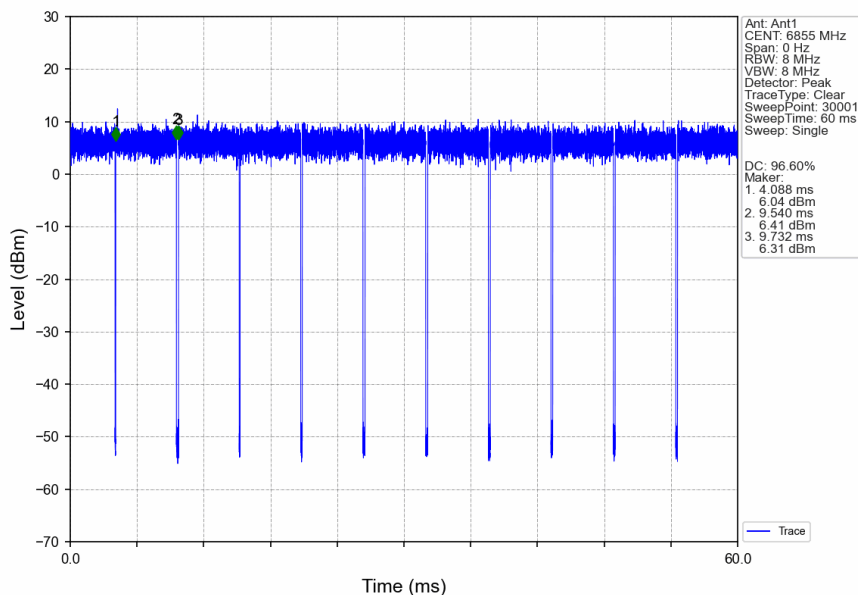
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

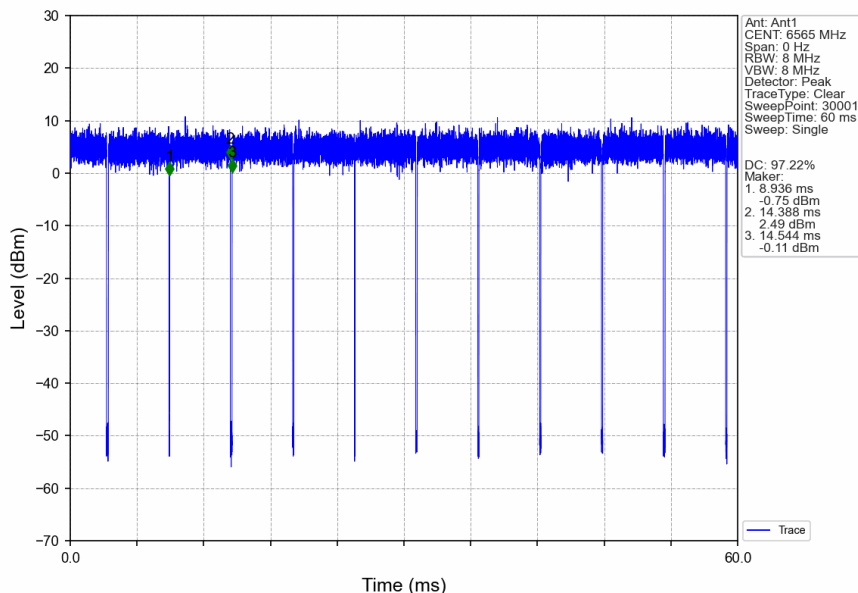
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

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.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

802.11be(EHT20)_HCH_6855MHz_RU242_Left_Ant1_NTNV



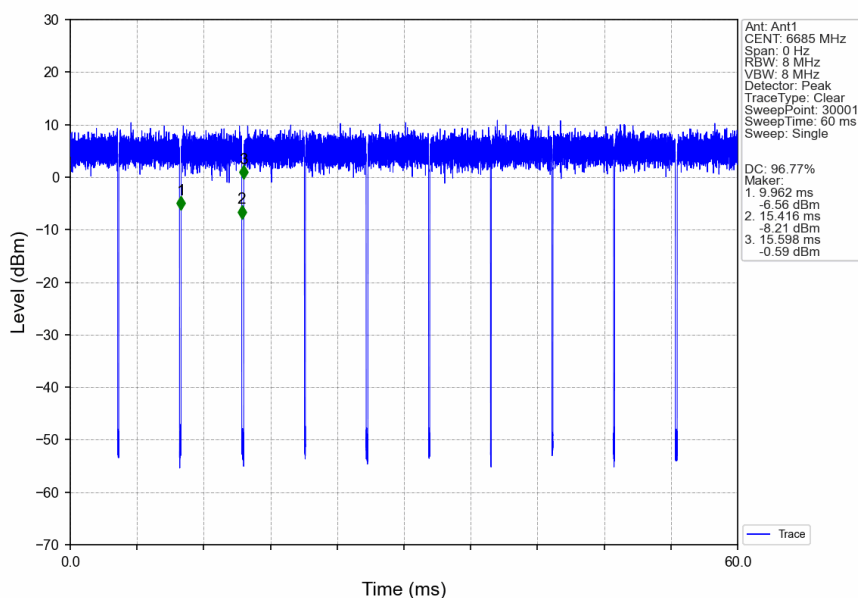
802.11be(EHT40)_LCH_6565MHz_RU484_Left_Ant1_NTNV



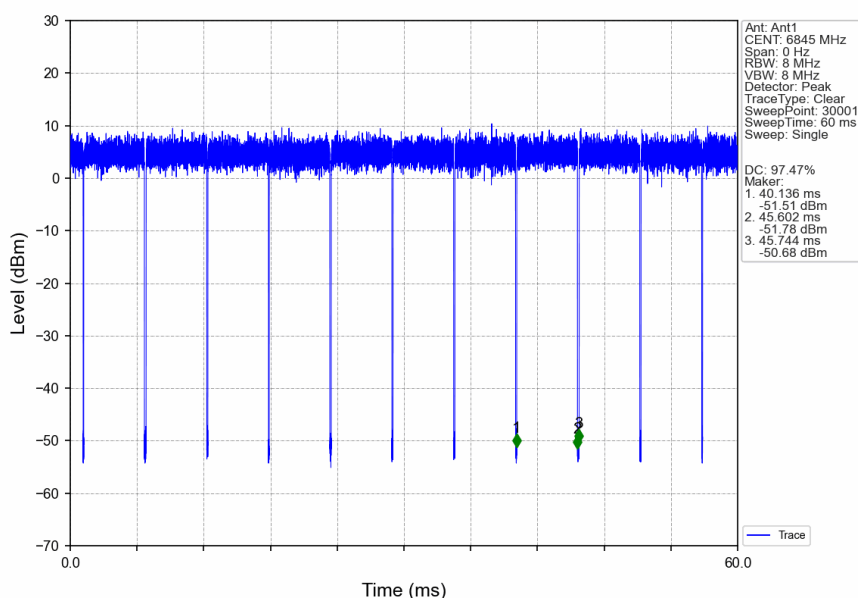
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

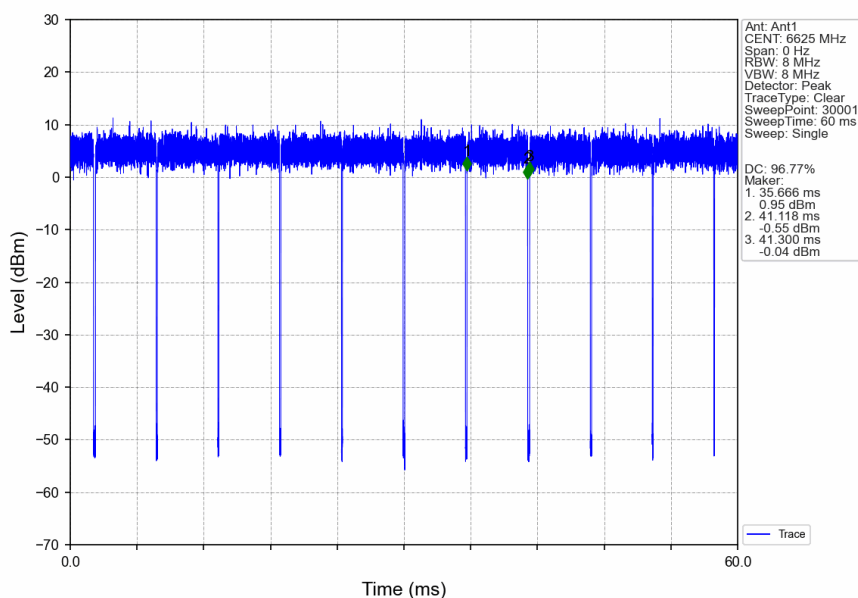
802.11be(EHT40)_MCH_6685MHz_RU484_Left_Ant1_NTNV



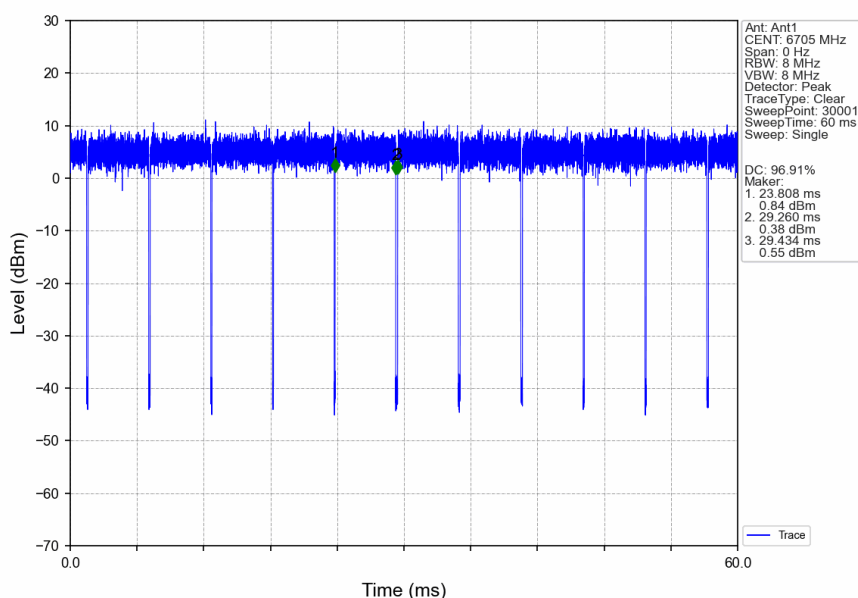
802.11be(EHT40)_HCH_6845MHz_RU484_Left_Ant1_NTNV



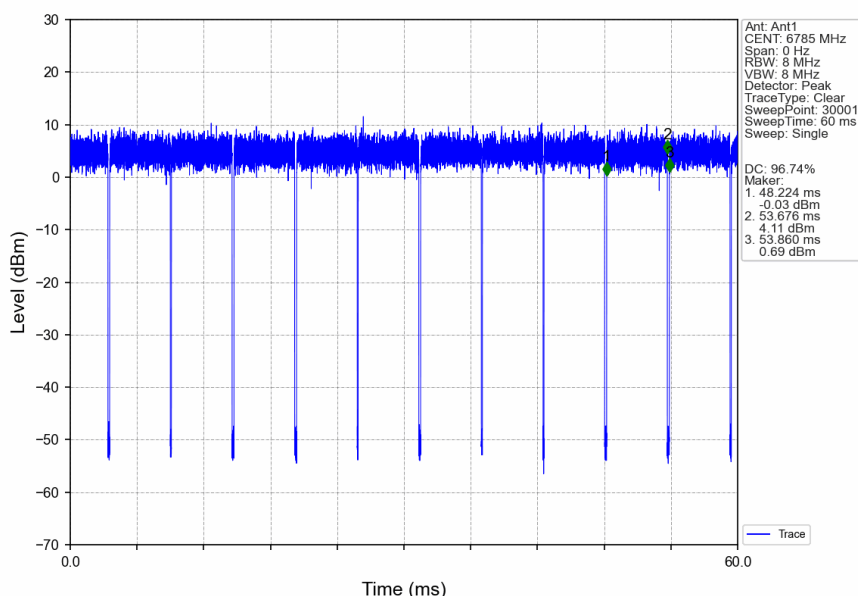
802.11be(EHT80)_LCH_6625MHz_RU996_Left_Ant1_NTNV



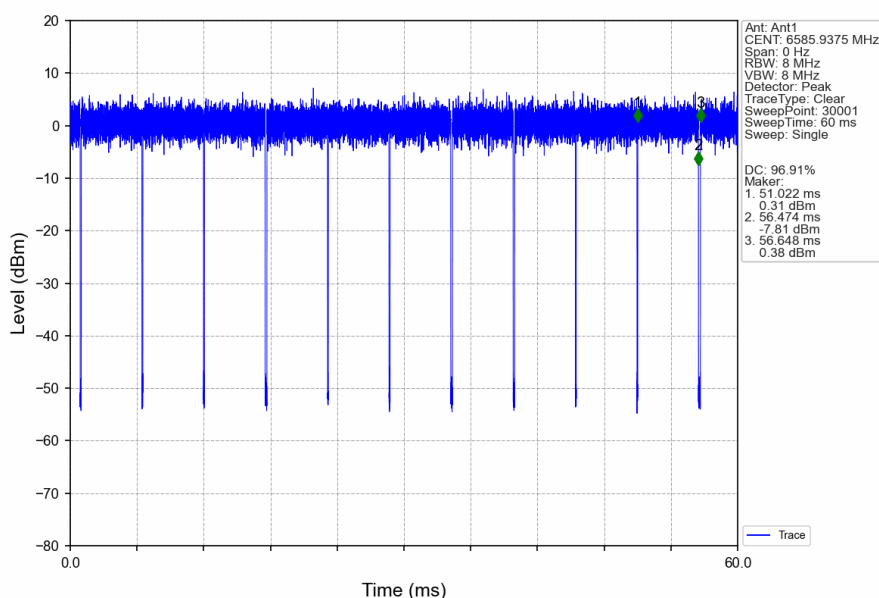
802.11be(EHT80)_MCH_6705MHz_RU996_Left_Ant1_NTNV



802.11be(EHT80)_HCH_6785MHz_RU996_Left_Ant1_NTNV



802.11be(EHT160)_MCH_6665MHz_2xRU996_Left_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.

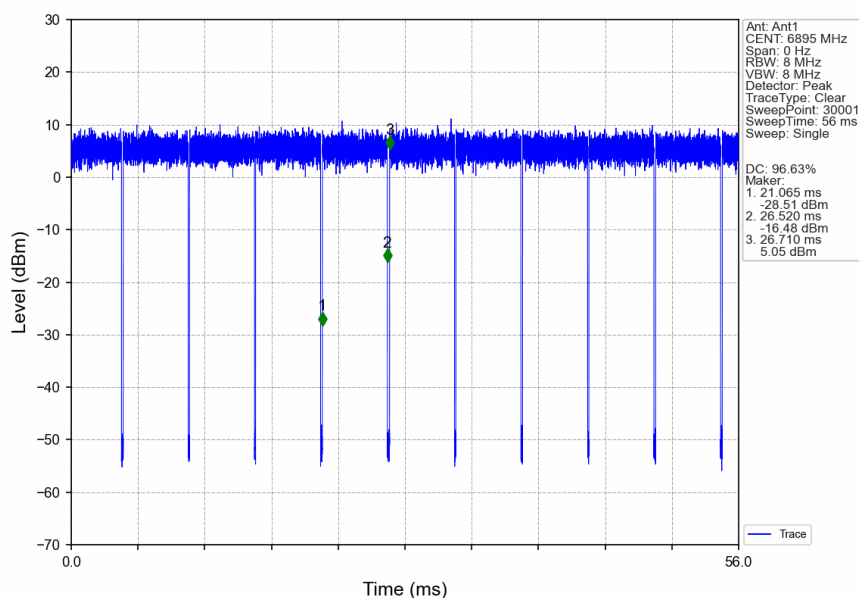
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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

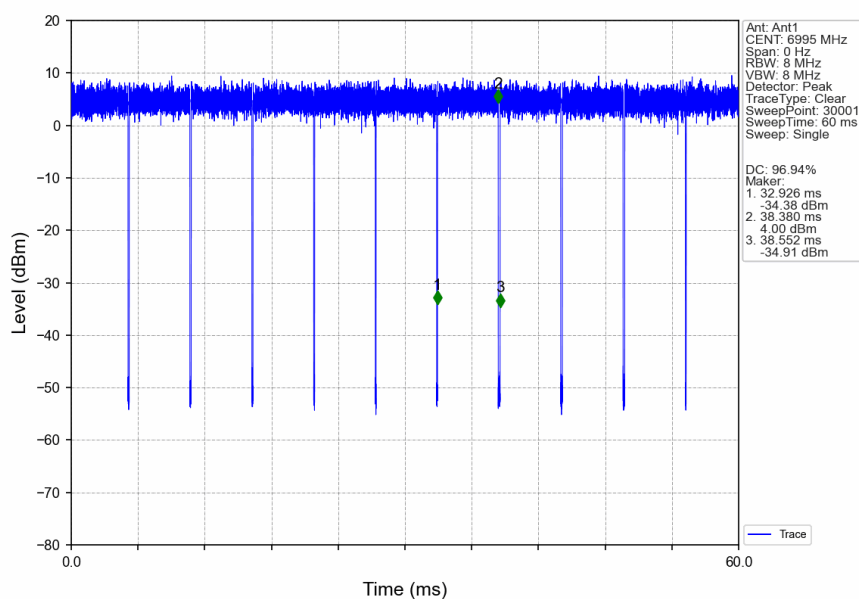
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

1.2.4 Ant1

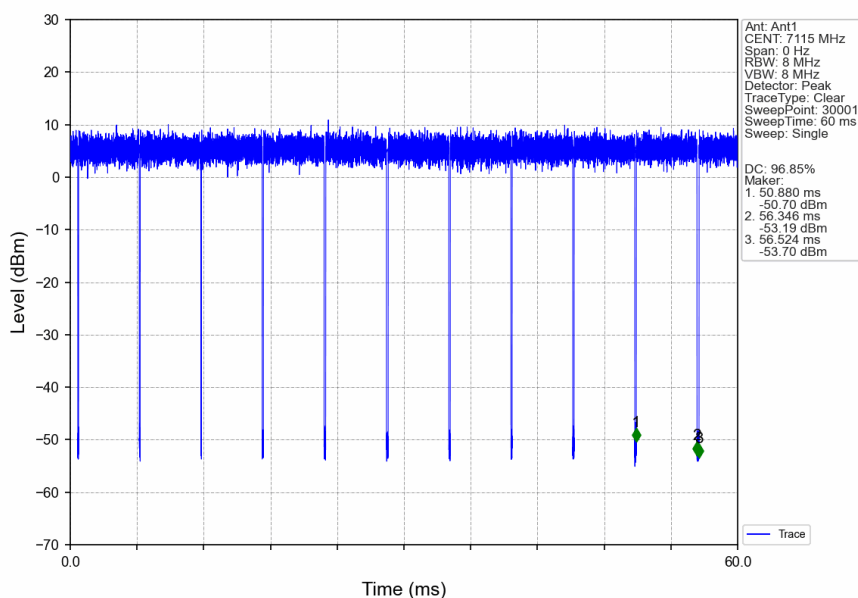
802.11be(EHT20)_LCH_6895MHz_RU242_Left_Ant1_NTNV



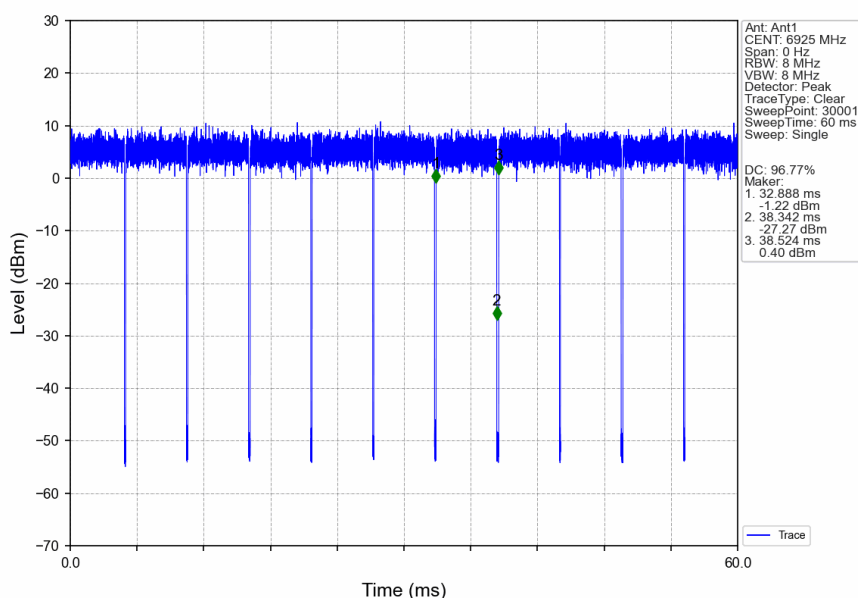
802.11be(EHT20)_MCH_6995MHz_RU242_Left_Ant1_NTNV



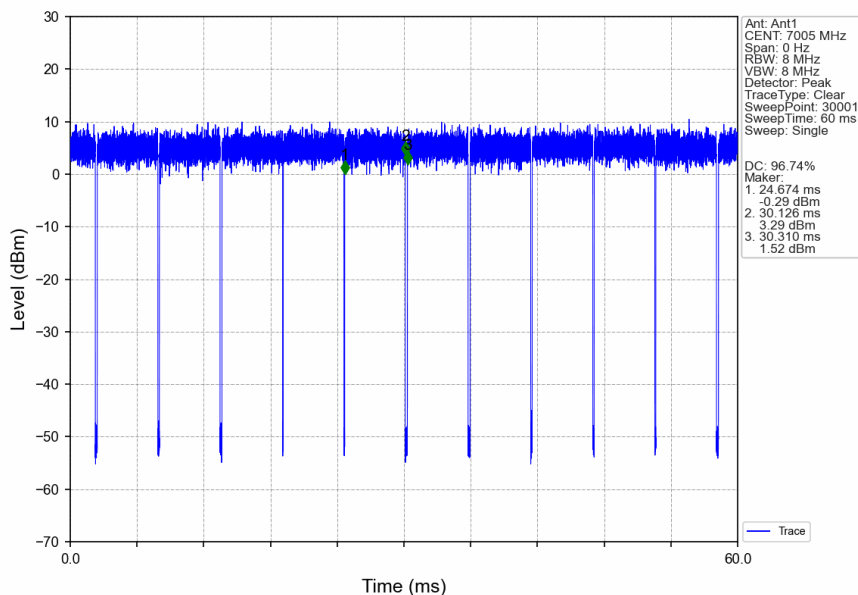
802.11be(EHT20)_HCH_7115MHz_RU242_Left_Ant1_NTNV



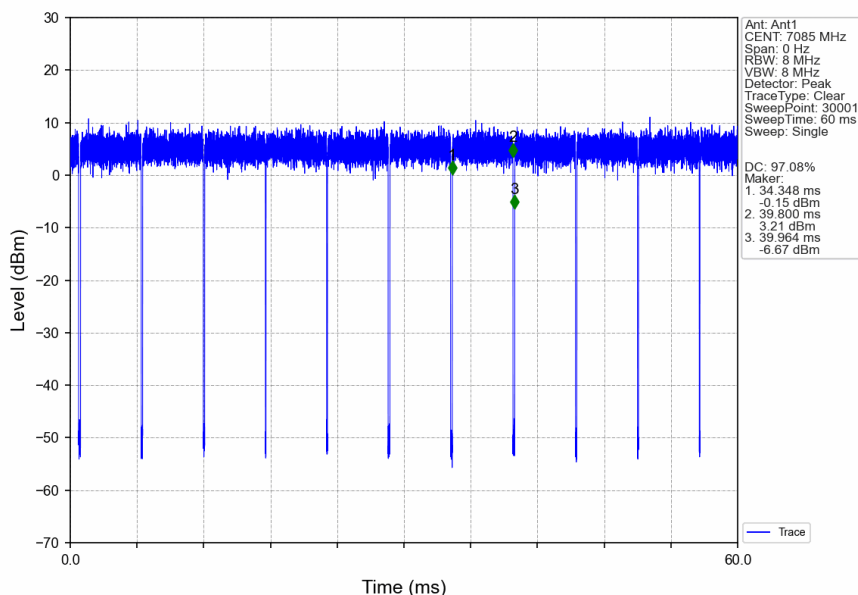
802.11be(EHT40)_LCH_6925MHz_RU484_Left_Ant1_NTNV



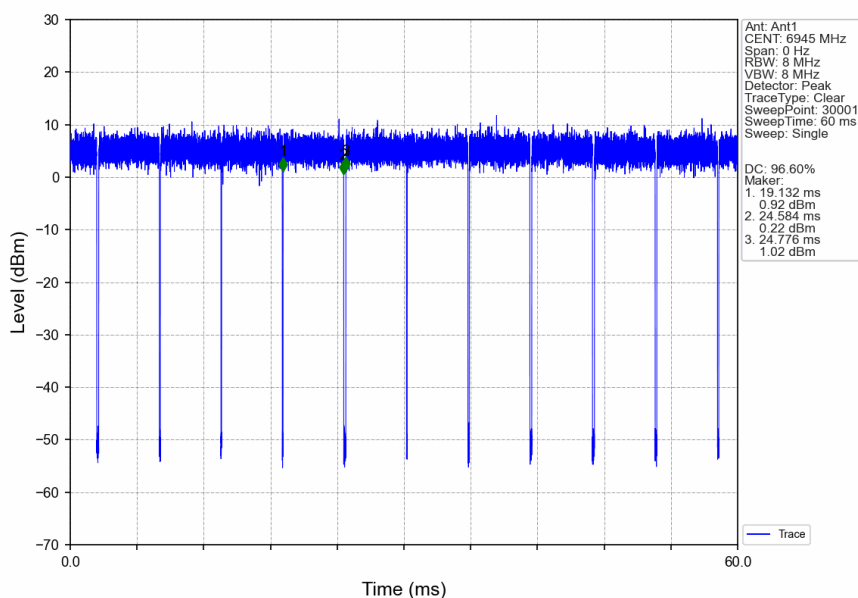
802.11be(EHT40)_MCH_7005MHz_RU484_Left_Ant1_NTNV



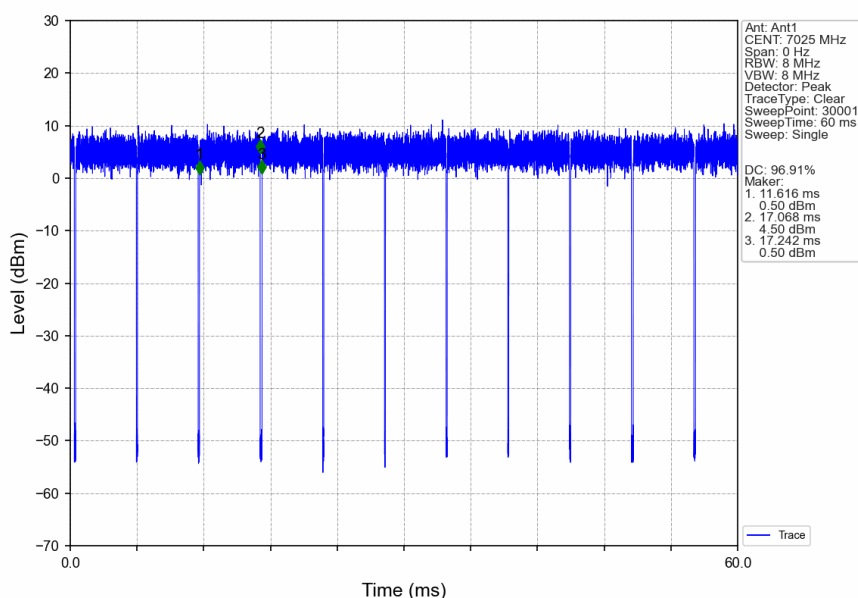
802.11be(EHT40)_HCH_7085MHz_RU484_Left_Ant1_NTNV



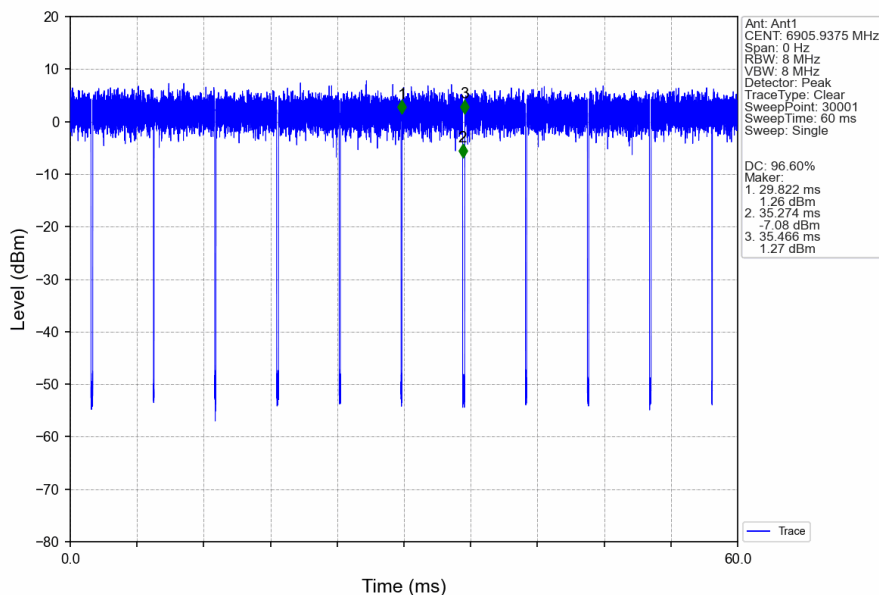
802.11be(EHT80)_LCH_6945MHz_RU996_Left_Ant1_NTNV



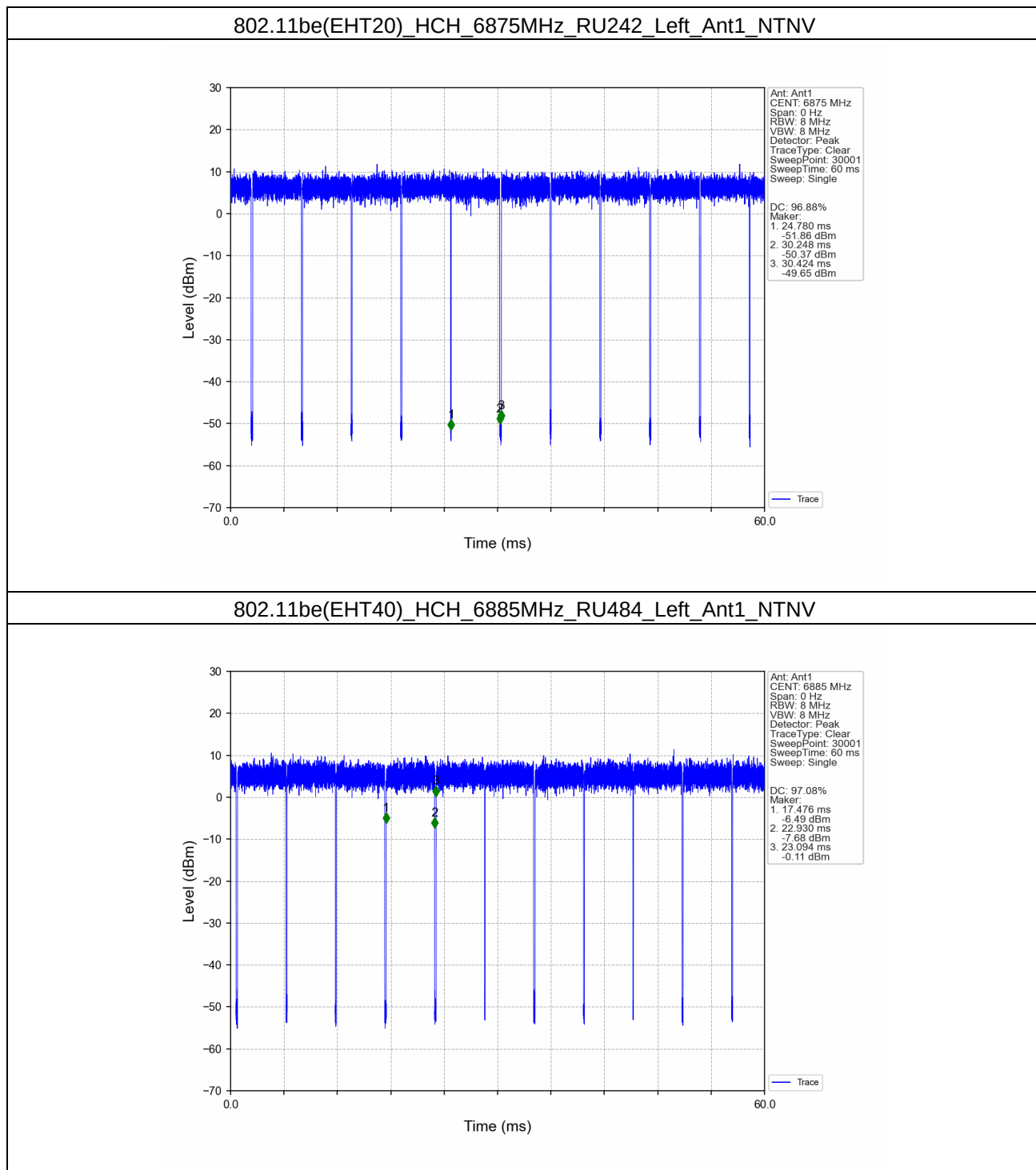
802.11be(EHT80)_HCH_7025MHz_RU996_Left_Ant1_NTNV



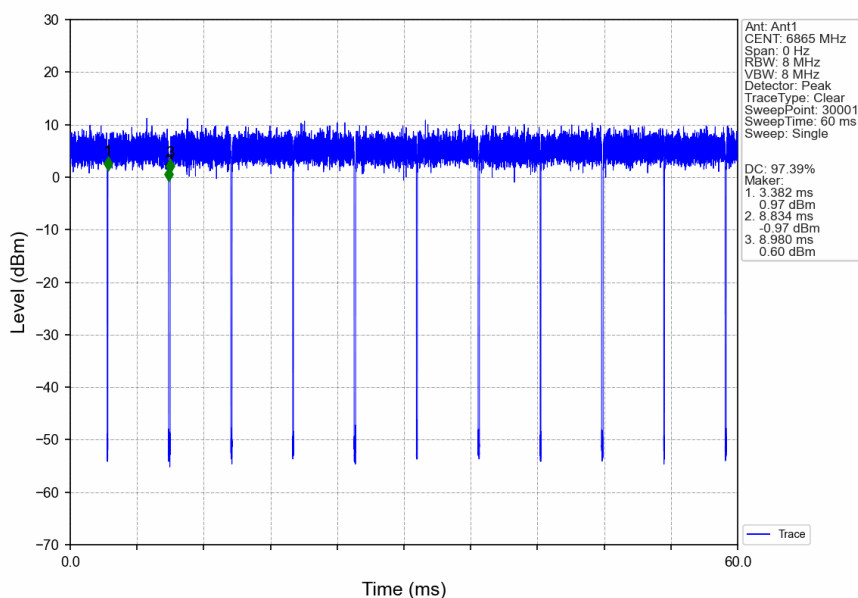
802.11be(EHT160)_MCH_6985MHz_2xRU996_Left_Ant1_NTNV



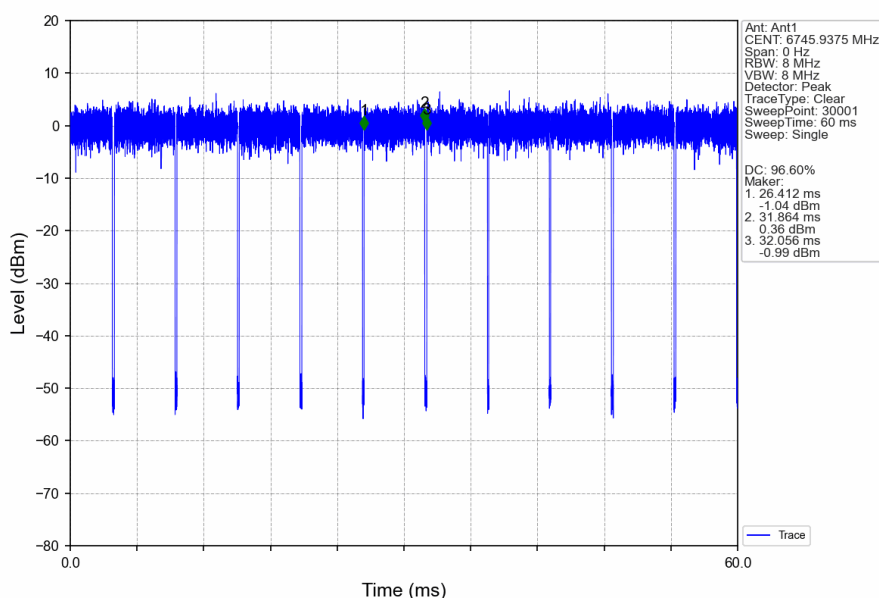
1.2.5 Ant1



802.11be(EHT80)_HCH_6865MHz_RU996_Left_Ant1_NTNV



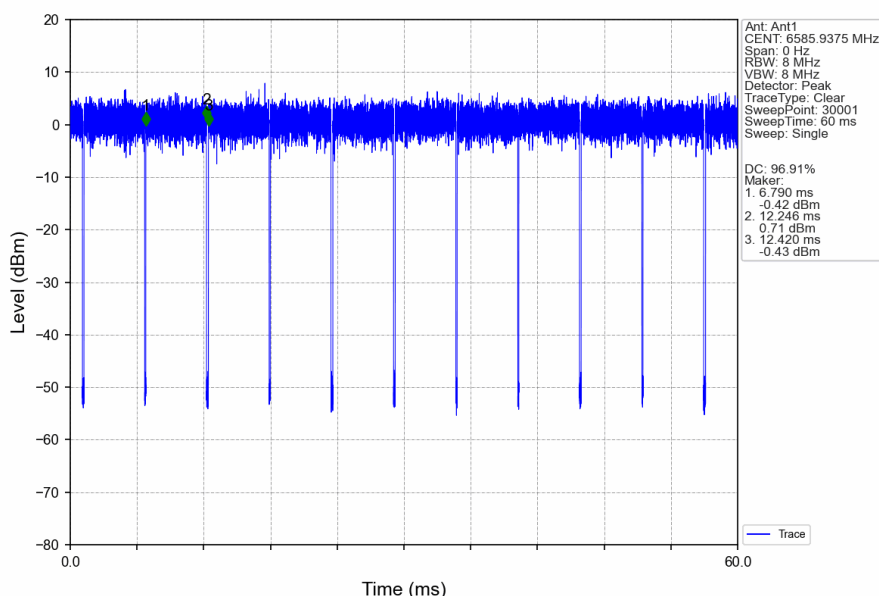
802.11be(EHT160)_HCH_6825MHz_2xRU996_Left_Ant1_NTNV



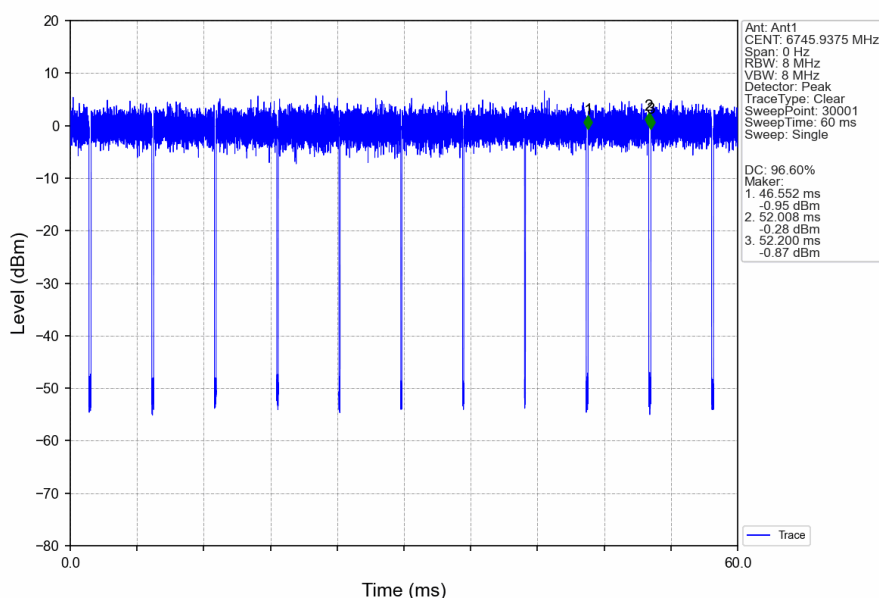
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction 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

802.11be(EHT320)_LCH_6745MHz_4xRU996_Left_Ant1_NTNV

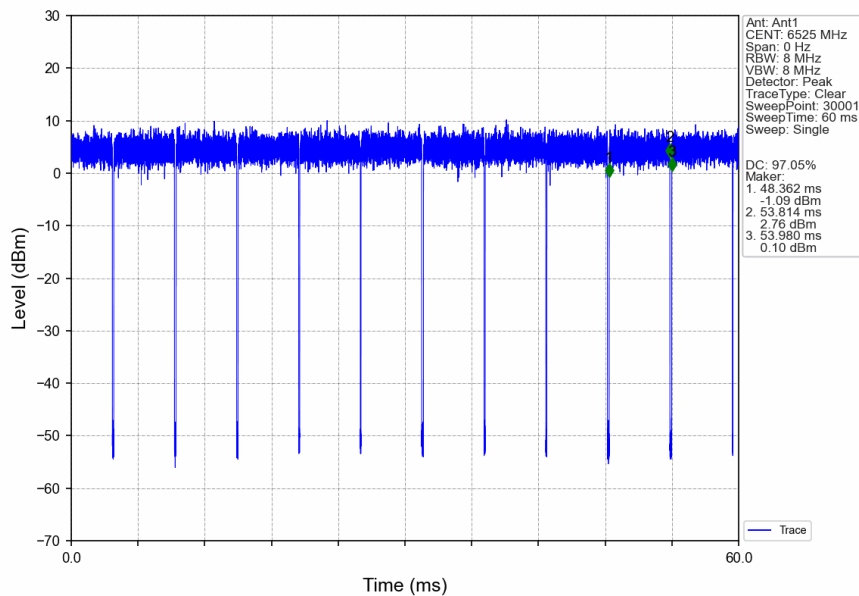


802.11be(EHT320)_HCH_6905MHz_4xRU996_Left_Ant1_NTNV

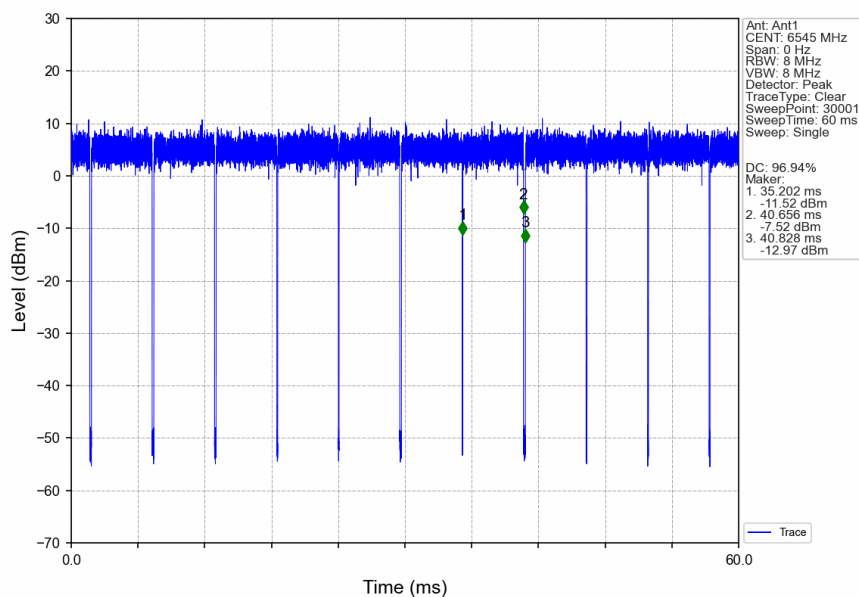


1.2.6 Ant1

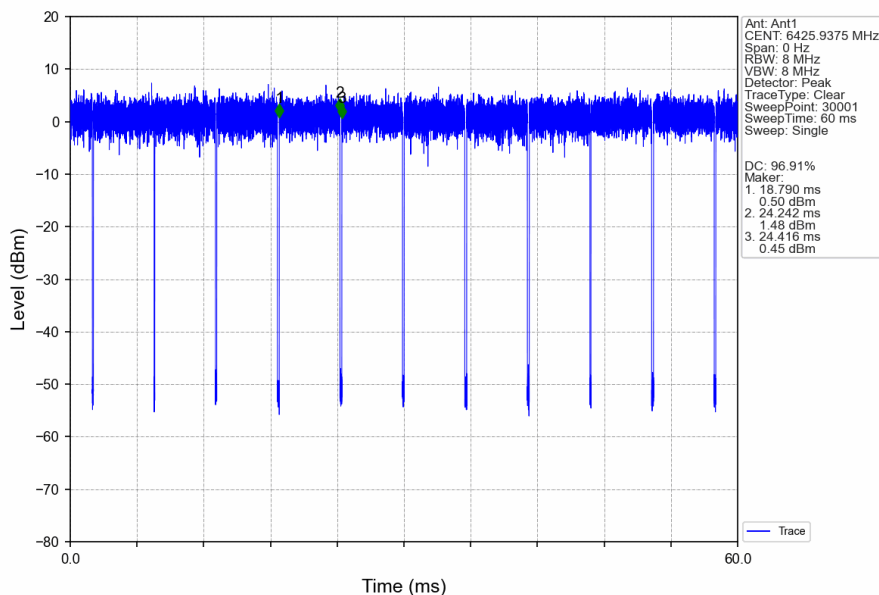
802.11be(EHT40)_HCH_6525MHz_RU484_Left_Ant1_NTNV



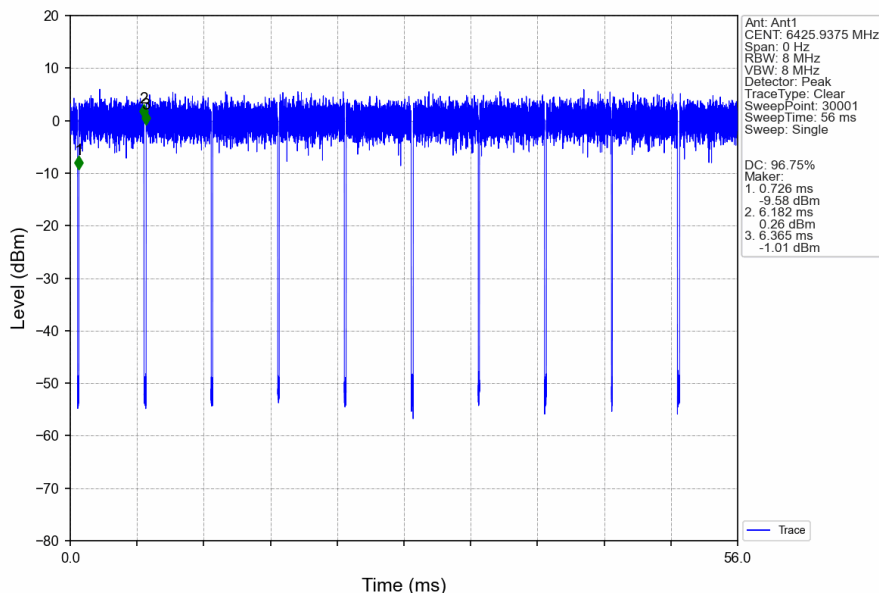
802.11be(EHT80)_HCH_6545MHz_RU996_Left_Ant1_NTNV



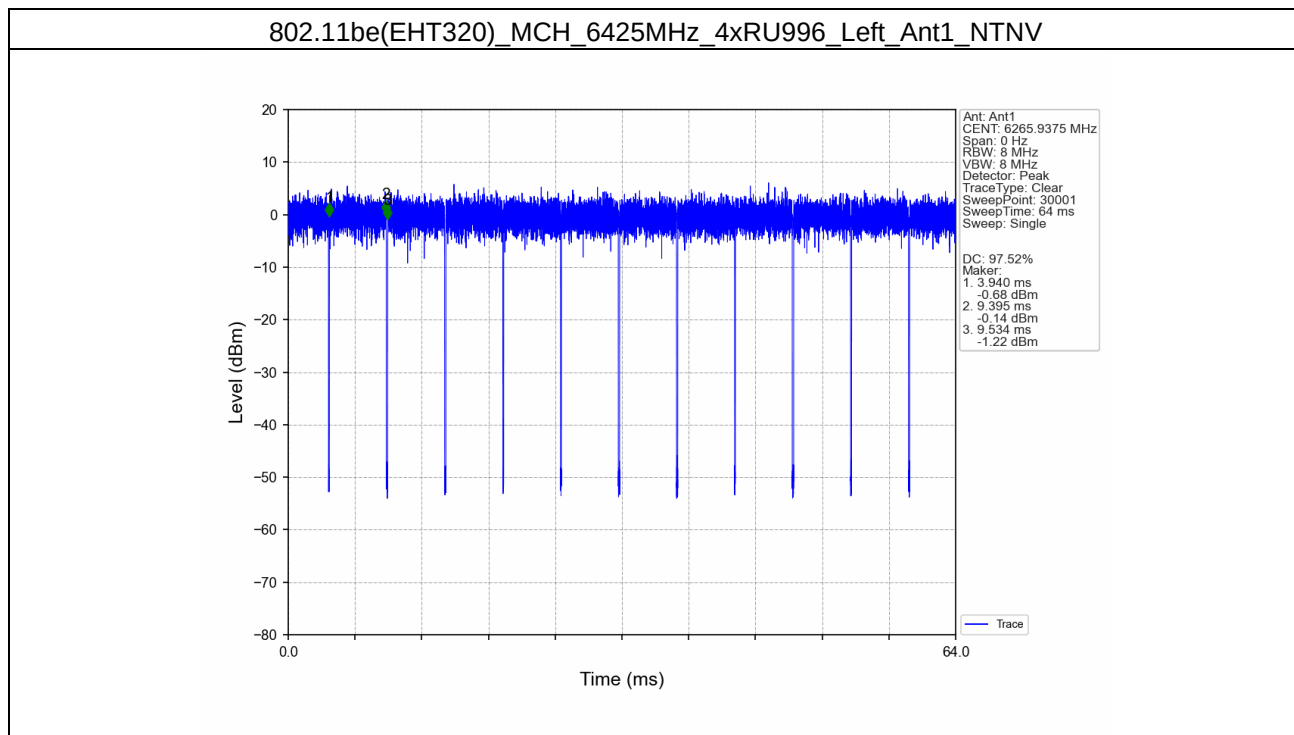
802.11be(EHT160)_HCH_6505MHz_2xRU996_Left_Ant1_NTNV



802.11be(EHT320)_MCH_6585MHz_4xRU996_Left_Ant1_NTNV



1.2.7 Ant1



2. Bandwidth

2.1 Test Result

2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT20)	MIMO	5955	RU242	Left	1	19.099	<=320	Pass
			6175	RU242	Left	1	19.119	<=320	Pass
			6415	RU242	Left	1	19.148	<=320	Pass
	802.11be (EHT40)	MIMO	5965	RU484	Left	1	37.998	<=320	Pass
			6165	RU484	Left	1	38.071	<=320	Pass
			6405	RU484	Left	1	38.094	<=320	Pass
	802.11be (EHT80)	MIMO	5985	RU996	Left	1	77.769	<=320	Pass
			6145	RU996	Left	1	77.957	<=320	Pass
			6385	RU996	Left	1	77.830	<=320	Pass
	802.11be (EHT160)	MIMO	6025	2xRU996	Left	1	157.103	<=320	Pass
			6185	2xRU996	Left	1	156.967	<=320	Pass
			6345	2xRU996	Left	1	157.048	<=320	Pass
	802.11be (EHT320)	MIMO	6105	4xRU996	Left	1	313.695	<=320	Pass
			6265	4xRU996	Left	1	315.685	<=320	Pass

2.1.2 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT20)	MIMO	5955	RU242	Left	1	22.687	/	Pass
			6175	RU242	Left	1	22.678	/	Pass
			6415	RU242	Left	1	23.145	/	Pass
	802.11be (EHT40)	MIMO	5965	RU484	Left	1	44.471	/	Pass
			6165	RU484	Left	1	43.478	/	Pass
			6405	RU484	Left	1	44.321	/	Pass
	802.11be (EHT80)	MIMO	5985	RU996	Left	1	90.647	/	Pass
			6145	RU996	Left	1	87.822	/	Pass
			6385	RU996	Left	1	89.523	/	Pass
	802.11be (EHT160)	MIMO	6025	2xRU996	Left	1	169.255	/	Pass
			6185	2xRU996	Left	1	173.477	/	Pass

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800347606

Page: 127 of 955

			6345	2xRU996	Left	1	172.328	/	Pass
	802.11be (EHT320)	MIMO	6105	4xRU996	Left	1	336.312	/	Pass
			6265	4xRU996	Left	1	332.237	/	Pass

2.1.3 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT20)	MIMO	6435	RU242	Left	1	19.159	<=320	Pass
			6475	RU242	Left	1	19.106	<=320	Pass
			6515	RU242	Left	1	19.107	<=320	Pass
	802.11be (EHT40)	MIMO	6445	RU484	Left	1	38.090	<=320	Pass
			6485	RU484	Left	1	38.082	<=320	Pass
	802.11be (EHT80)	MIMO	6465	RU996	Left	1	77.752	<=320	Pass

2.1.4 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT20)	MIMO	6435	RU242	Left	1	23.070	/	Pass
			6475	RU242	Left	1	23.900	/	Pass
			6515	RU242	Left	1	22.788	/	Pass
	802.11be (EHT40)	MIMO	6445	RU484	Left	1	44.302	/	Pass
			6485	RU484	Left	1	43.326	/	Pass
	802.11be (EHT80)	MIMO	6465	RU996	Left	1	87.973	/	Pass

2.1.5 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT20)	MIMO	6535	RU242	Left	1	19.162	<=320	Pass
			6695	RU242	Left	1	19.139	<=320	Pass
			6855	RU242	Left	1	19.118	<=320	Pass
	802.11be (EHT40)	MIMO	6565	RU484	Left	1	38.039	<=320	Pass
			6685	RU484	Left	1	38.058	<=320	Pass
			6845	RU484	Left	1	38.057	<=320	Pass
	802.11be (EHT80)	MIMO	6625	RU996	Left	1	77.829	<=320	Pass
			6705	RU996	Left	1	77.873	<=320	Pass



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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) 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.: SZCR250800347606

Page: 128 of 955

			6785	RU996	Left	1	77.688	<=320	Pass
	802.11be (EHT160)	MIMO	6665	2xRU996	Left	1	157.419	<=320	Pass

2.1.6 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT20)	MIMO	6535	RU242	Left	1	22.949	/	Pass
			6695	RU242	Left	1	22.564	/	Pass
			6855	RU242	Left	1	22.871	/	Pass
	802.11be (EHT40)	MIMO	6565	RU484	Left	1	44.070	/	Pass
			6685	RU484	Left	1	44.622	/	Pass
			6845	RU484	Left	1	43.696	/	Pass
	802.11be (EHT80)	MIMO	6625	RU996	Left	1	91.147	/	Pass
			6705	RU996	Left	1	89.640	/	Pass
			6785	RU996	Left	1	90.134	/	Pass
	802.11be (EHT160)	MIMO	6665	2xRU996	Left	1	173.184	/	Pass

2.1.7 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT20)	MIMO	6895	RU242	Left	1	19.133	<=320	Pass
			6995	RU242	Left	1	19.108	<=320	Pass
			7115	RU242	Left	1	19.099	<=320	Pass
	802.11be (EHT40)	MIMO	6925	RU484	Left	1	38.085	<=320	Pass
			7005	RU484	Left	1	38.090	<=320	Pass
			7085	RU484	Left	1	38.110	<=320	Pass
	802.11be (EHT80)	MIMO	6945	RU996	Left	1	77.789	<=320	Pass
			7025	RU996	Left	1	77.711	<=320	Pass
	802.11be (EHT160)	MIMO	6985	2xRU996	Left	1	156.897	<=320	Pass

2.1.8 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT20)	MIMO	6895	RU242	Left	1	22.729	/	Pass
			6995	RU242	Left	1	22.474	/	Pass



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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 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.: SZCR250800347606

Page: 129 of 955

			7115	RU242	Left	1	23.262	/	Pass
	802.11be (EHT40)	MIMO	6925	RU484	Left	1	43.488	/	Pass
			7005	RU484	Left	1	44.349	/	Pass
			7085	RU484	Left	1	43.976	/	Pass
	802.11be (EHT80)	MIMO	6945	RU996	Left	1	89.991	/	Pass
			7025	RU996	Left	1	90.146	/	Pass
	802.11be (EHT160)	MIMO	6985	2xRU996	Left	1	171.452	/	Pass

2.1.9 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT20)	MIMO	6875	RU242	Left	1	19.109	<=320	Pass
	802.11be (EHT40)	MIMO	6885	RU484	Left	1	38.087	<=320	Pass
	802.11be (EHT80)	MIMO	6865	RU996	Left	1	77.706	<=320	Pass
	802.11be (EHT160)	MIMO	6825	2xRU996	Left	1	156.445	<=320	Pass
	802.11be (EHT320)	MIMO	6745	4xRU996	Left	1	315.578	<=320	Pass
			6905	4xRU996	Left	1	315.013	<=320	Pass

2.1.10 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT20)	MIMO	6875	RU242	Left	1	22.855	/	Pass
	802.11be (EHT40)	MIMO	6885	RU484	Left	1	43.219	/	Pass
	802.11be (EHT80)	MIMO	6865	RU996	Left	1	89.481	/	Pass
	802.11be (EHT160)	MIMO	6825	2xRU996	Left	1	172.641	/	Pass
	802.11be (EHT320)	MIMO	6745	4xRU996	Left	1	339.676	/	Pass
			6905	4xRU996	Left	1	335.019	/	Pass

2.1.11 OBW

ENV	Mode	TX	Frequency	RU	RU	ANT	99% Occupied Bandwidth	Verdict
-----	------	----	-----------	----	----	-----	------------------------	---------



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 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.: SZCR250800347606

Page: 130 of 955

		Type	(MHz)		Pos		(MHz)		
							Result	Limit	
NTNV	802.11be (EHT40)	MIMO	6525	RU484	Left	1	38.085	<=320	Pass
	802.11be (EHT80)	MIMO	6545	RU996	Left	1	77.693	<=320	Pass
	802.11be (EHT160)	MIMO	6505	2xRU996	Left	1	157.002	<=320	Pass
	802.11be (EHT320)	MIMO	6585	4xRU996	Left	1	315.884	<=320	Pass

2.1.12 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT40)	MIMO	6525	RU484	Left	1	44.838	/	Pass
	802.11be (EHT80)	MIMO	6545	RU996	Left	1	89.419	/	Pass
	802.11be (EHT160)	MIMO	6505	2xRU996	Left	1	170.588	/	Pass
	802.11be (EHT320)	MIMO	6585	4xRU996	Left	1	339.145	/	Pass

2.1.13 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT320)	MIMO	6425	4xRU996	Left	1	315.322	<=320	Pass

2.1.14 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT320)	MIMO	6425	4xRU996	Left	1	338.507	/	Pass



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <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.

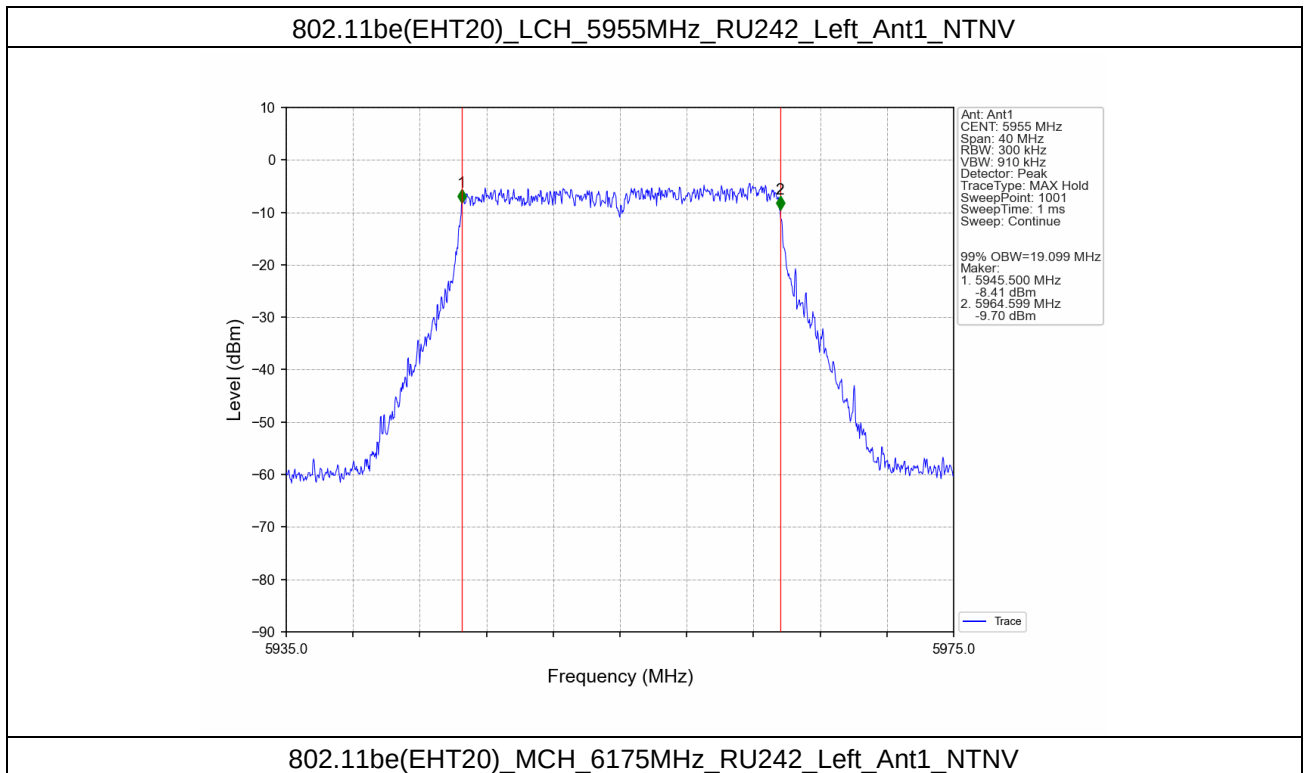
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

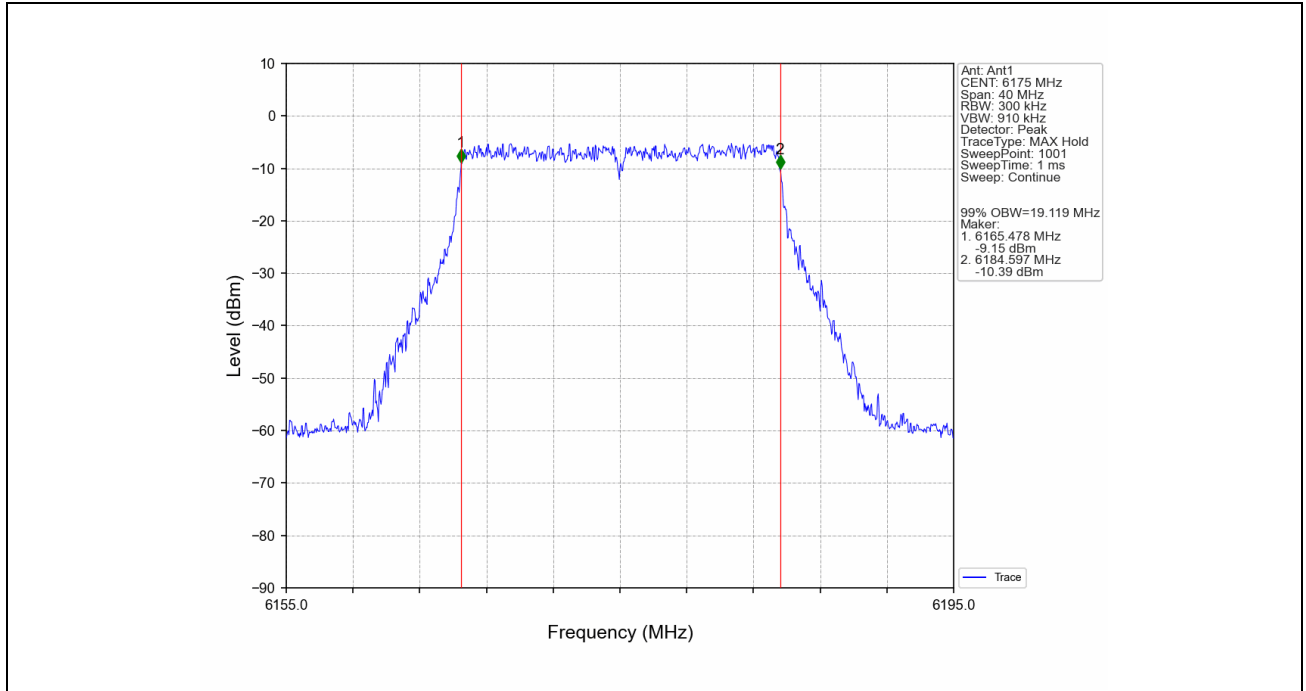
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Testing & Calibration Laboratory

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

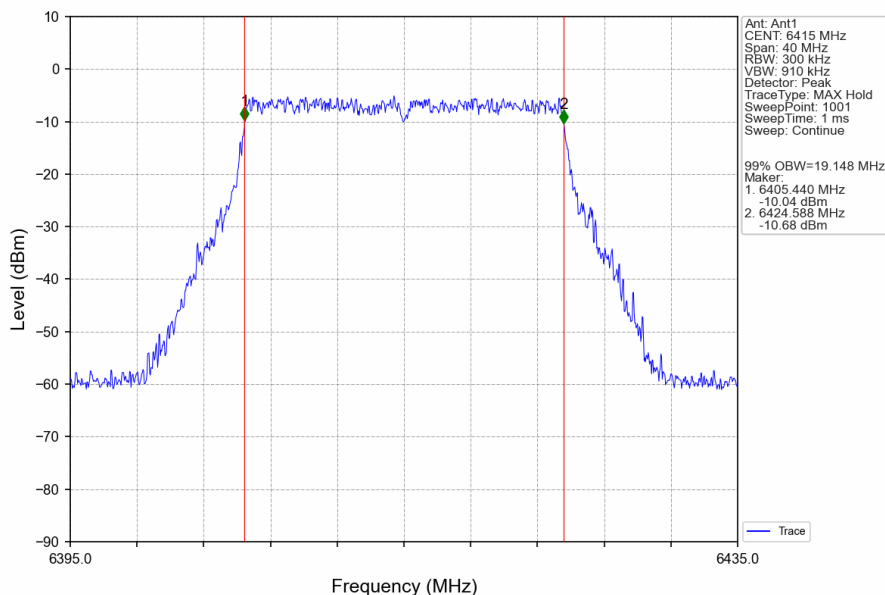
2.2 Test Graph

2.2.1 OBW

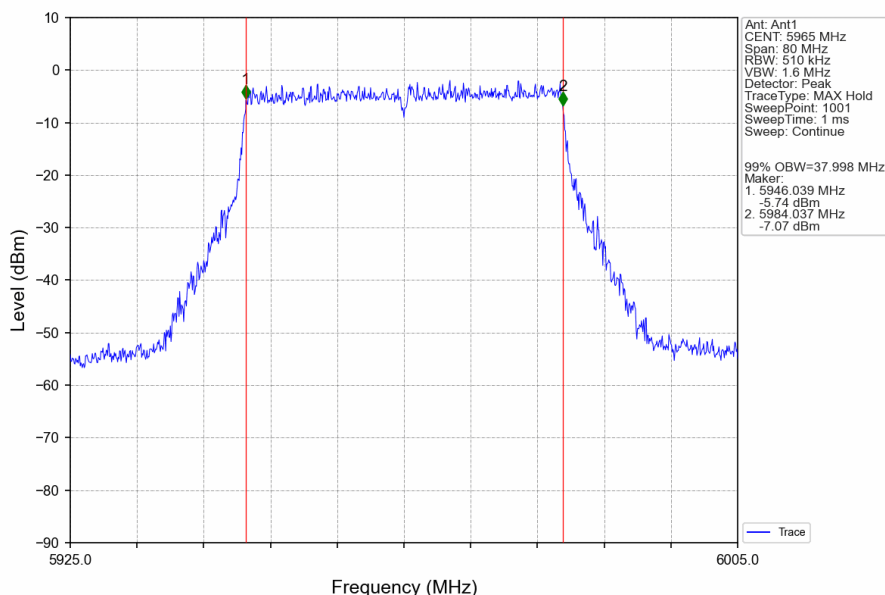




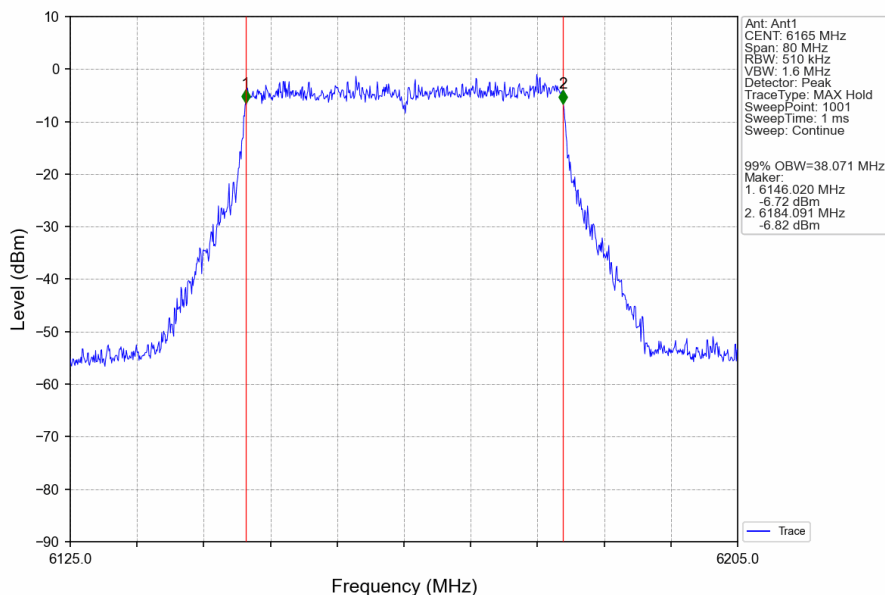
802.11be(EHT20)_HCH_6415MHz_RU242_Left_Ant1_NTNV



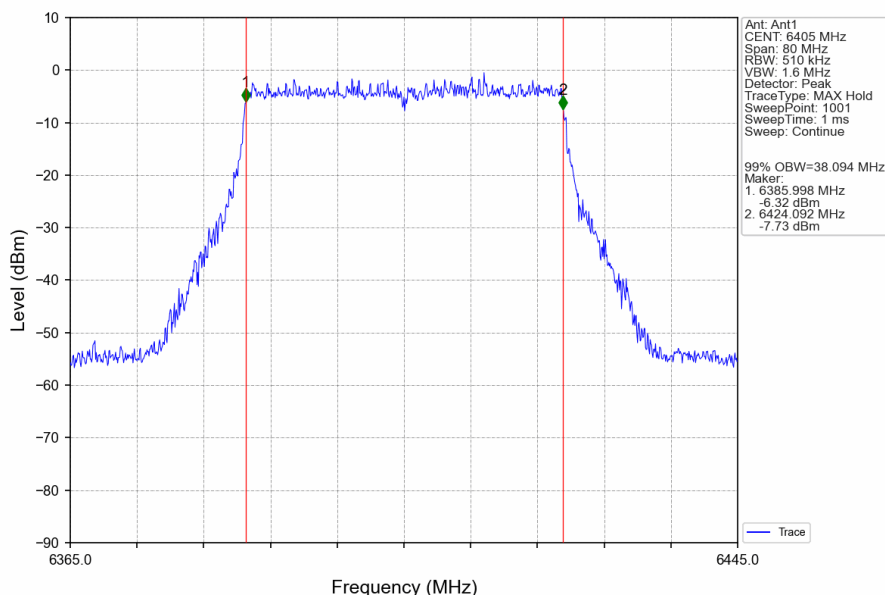
802.11be(EHT40)_LCH_5965MHz_RU484_Left_Ant1_NTNV



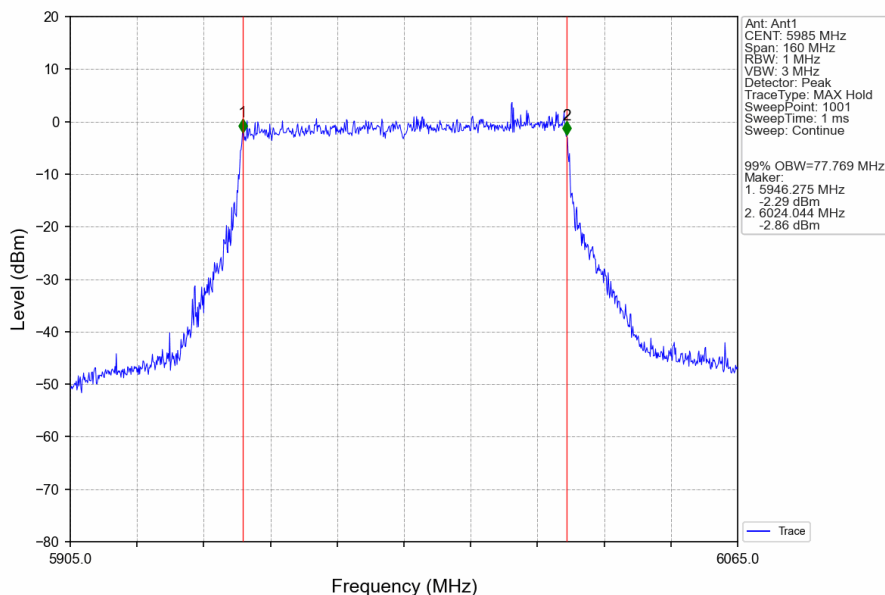
802.11be(EHT40)_MCH_6165MHz_RU484_Left_Ant1_NTNV



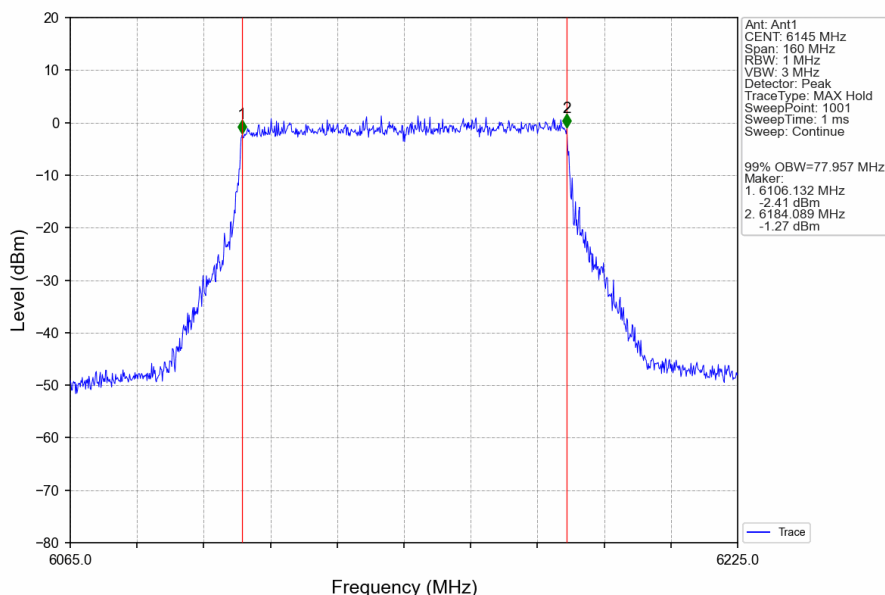
802.11be(EHT40)_HCH_6405MHz_RU484_Left_Ant1_NTNV



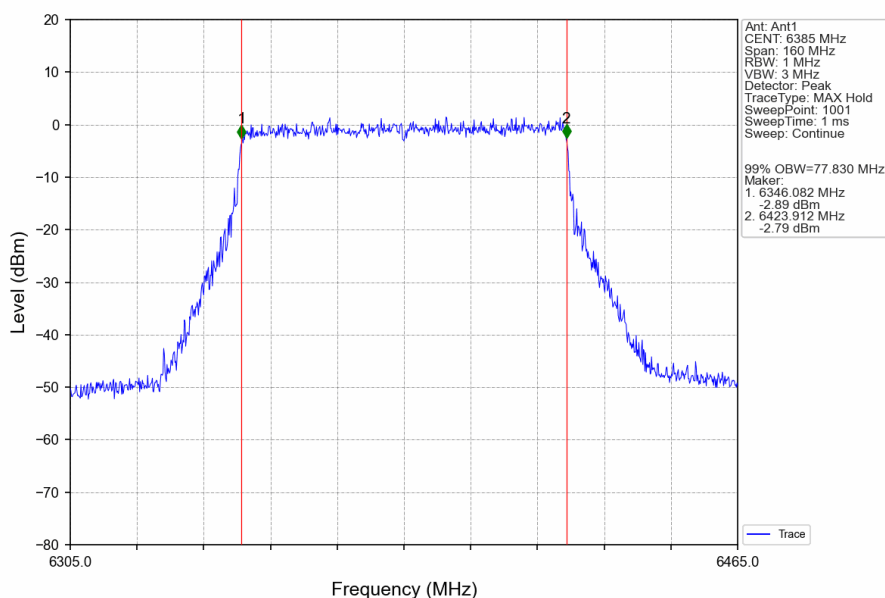
802.11be(EHT80)_LCH_5985MHz_RU996_Left_Ant1_NTNV



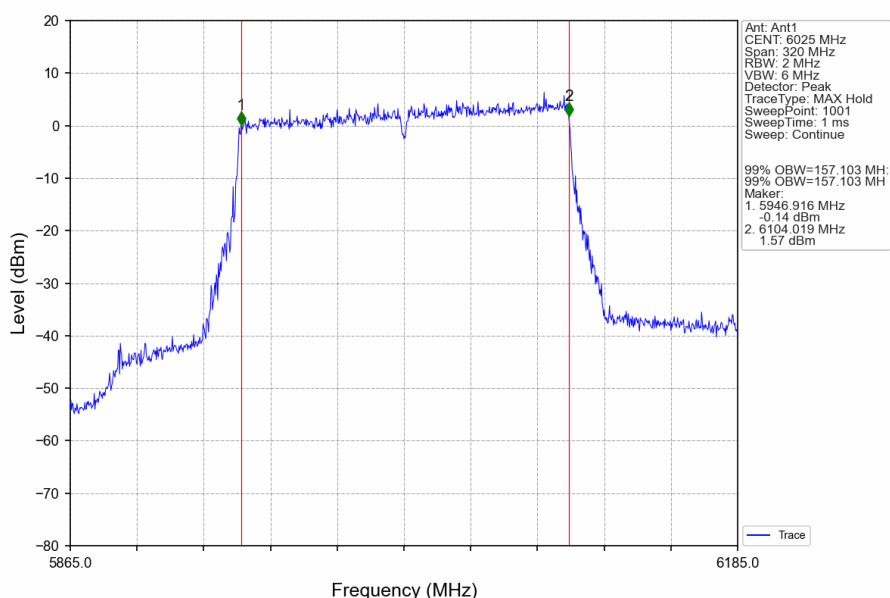
802.11be(EHT80)_MCH_6145MHz_RU996_Left_Ant1_NTNV



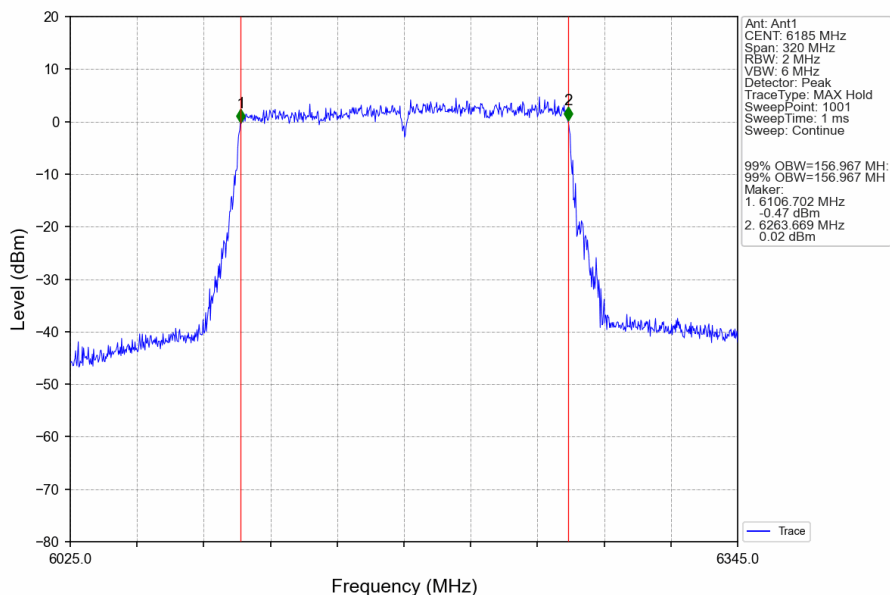
802.11be(EHT80)_HCH_6385MHz_RU996_Left_Ant1_NTNV



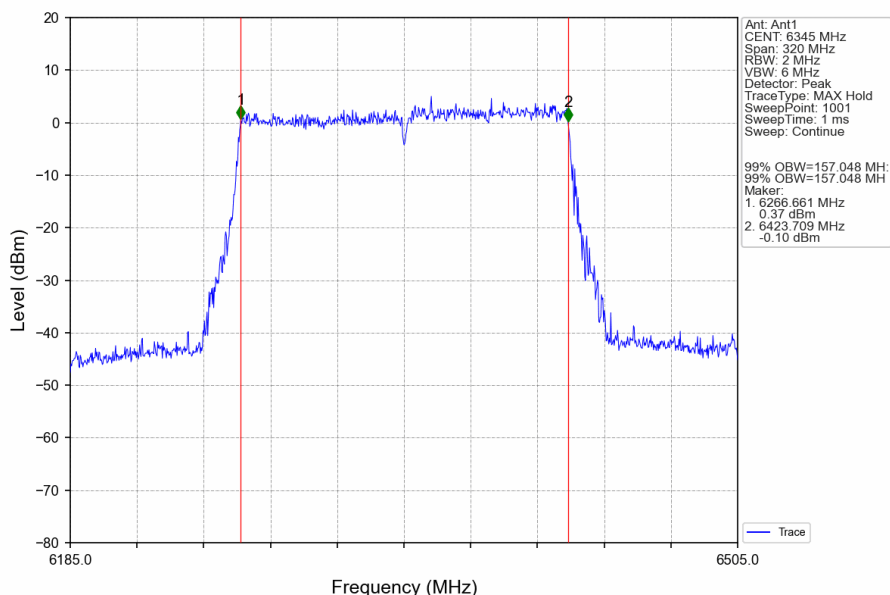
802.11be(EHT160)_LCH_6025MHz_2xRU996_Left_Ant1_NTNV



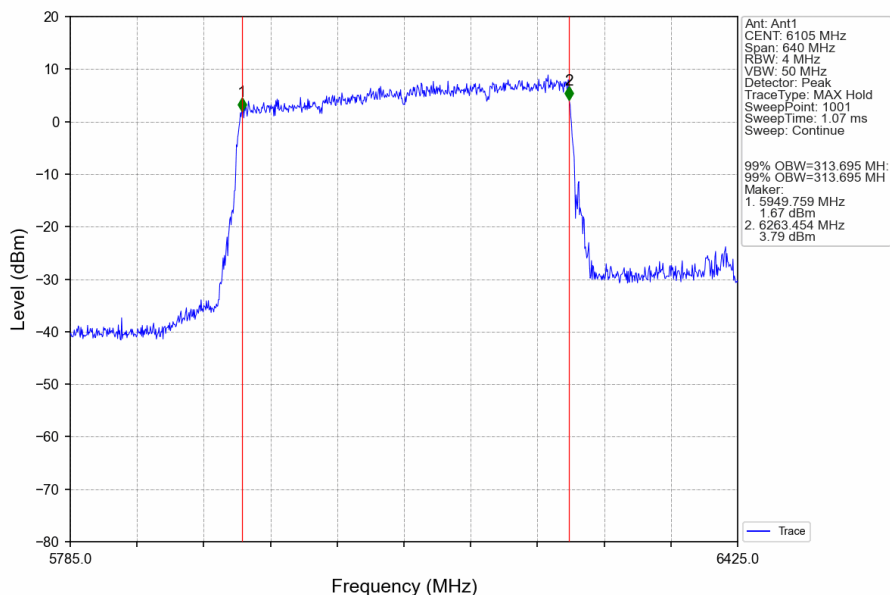
802.11be(EHT160)_MCH_6185MHz_2xRU996_Left_Ant1_NTNV



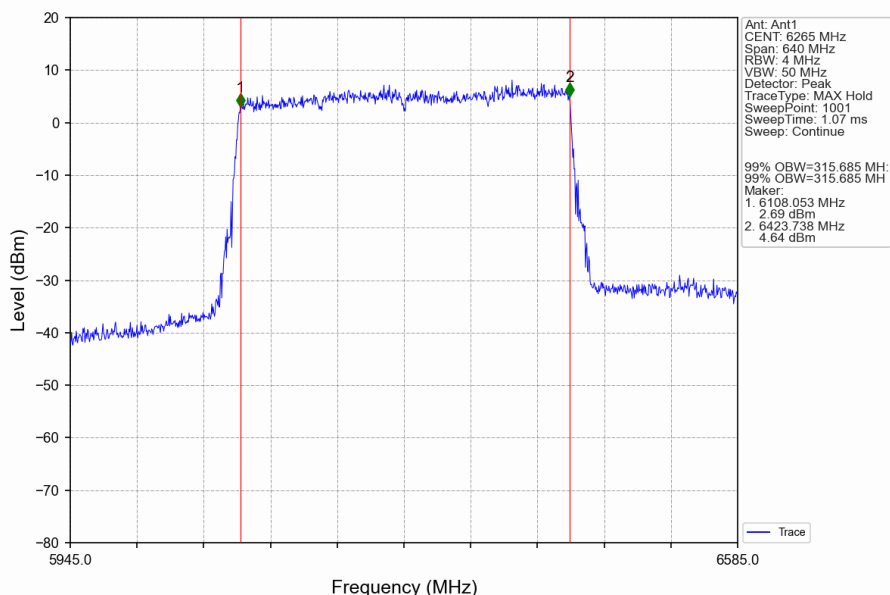
802.11be(EHT160)_HCH_6345MHz_2xRU996_Left_Ant1_NTNV



802.11be(EHT320)_LCH_6105MHz_4xRU996_Left_Ant1_NTNV



802.11be(EHT320)_HCH_6265MHz_4xRU996_Left_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
 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