

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

Page: 1 of 74

TEST REPORT

Application No.: FYCR2209000384AT
Applicant: DT Research, Inc.
Address of Applicant: 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan
Manufacturer: DT Research, Inc.
Address of Manufacturer: 2000 Concourse Drive, San Jose, CA 95131, USA
Factory: DT Research, Inc. Taiwan Branch
Address of Factory: 6F., No.36 Wuquan 7 th Rd., Wugu Dist. New Taipei City 248 Taiwan
Equipment Under Test (EUT):
EUT Name: Rugged Convertible Laptop
Model No.: LT35XX-XXX(X=blank, A~Z or 0~9) ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark:



FCC ID: YE3600-AX210NG
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2022-09-27
Date of Test: 2022-10-13 to 2022-10-26
Date of Issue: 2022-10-29

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Winkey Wang
EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-10-29		Original

Authorized for issue by:			
			

		Tree Zhan/Project Engineer	
			

		Winkey Wang/Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Remark:

Model No.: LT35XX-XXX(X=blank, A~Z or 0~9)

Only the model LT350 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No. and appearance color.

This report is prepared for FCC class II permissive change.

The modular approval by TCB, FCC ID:YE3600-AX210NG, Granted on 05/06/2022.

The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. The Original FCC testing on module under FCC ID: PD9AX210NG was performed with an antenna of higher gain, and the antenna was connected to the module in an open environment. The current host platform under application is used a new antenna of the same type and lower gain than the original certified module. Also, the band above 6GHz(5925-7125MHz) is blocked by the software for the module, and it is installed inside the host platform enclosure.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model LT350 and shown the data in this report.



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9 EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)74



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4 General Information

4.1 Details of E.U.T.

Power supply:	AC Adapter Model: A18-065N3A Input: AC 100-240V, 50/60Hz, 1.7A Output: DC 19V, 3.42A, 65.0W Rechargeable Lithium-Ion Polymer Battery Model: ACC-006-60K(3ICP9/36/115) Rated Capacity: 5400mAh Voltage: DC 11.4V Watt-Hour: 61.56Wh Max Charge Voltage: 13.05V
Test Voltage:	AC 120V, 60Hz Note: Both nominal AC 120V, 60Hz and AC 240 V, 60Hz are required for testing in accordance with FCC KDB174176, this report only shows the results of the worst test result(AC 120V, 60Hz);
Cable(s):	DC cable: 170cm unshielded
Operation Frequency:	802.11b/g/n/ax(HT20): 2412MHz to 2472MHz 802.11n/ax(HT40): 2422MHz to 2462MHz
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(QPSK, BPSK, 16QAM, 64QAM) 802.11ax: OFDMA(QPSK, BPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Channel Numbers:	802.11b/g, 802.11n/ax HT20: 13 Channels 802.11n/ax HT40: 9 Channels
Antenna Type:	PIFA Antenna
Antenna Gain:	Antenna1: 2.7dBi, Antenna2: 2.8dBi Note: MIMO for 802.11n/ax.

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Channel list for 802.11b/g/n/ax(HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	5	2432MHz	9	2452MHz	13	2472MHz
2	2417MHz	6	2437MHz	10	2457MHz		
3	2422MHz	7	2442MHz	11	2462MHz		
4	2427MHz	8	2447MHz	12	2467MHz		

Channel list for 802.11n/ax(HT40)					
Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz
4	2427MHz	7	2442MHz	10	2457MHz
5	2432MHz	8	2447MHz	11	2462MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 2.1 dB (9kHz to 30MHz)
Radiated Emissions which fall in the restricted bands	± 4.4dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 3.1dB (Below 1GHz)
Radiated Spurious Emissions Above 1GHz	± 4.4dB (Above 1GHz)



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC –Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2022/7/12	2023/7/11
LISN	Rohde & Schwarz	ENV216	SEM007-16	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2022/1/10	2023/1/9
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM033-02	2022/5/16	2023/5/15

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-02	2022/5/16	2023/5/15
Coaxial Cable	CCS	N/A	SEM035-03	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-01	2022/5/16	2023/5/15
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Loop Antenna(9kHz-30MHz)	ETS-LINDGREN	6502	SEM003-08	2021/11/30	2023/11/29

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Coaxial Cable	CCS	N/A	SEM035-03	2022/5/16	2023/5/15
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna connector is a IPEX type that comply with Part15.203, the best case gain of the antenna1 is 2.7dBi, antenna2 is 2.8dBi.

Antenna location: Refer to internal photo.



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

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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.

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

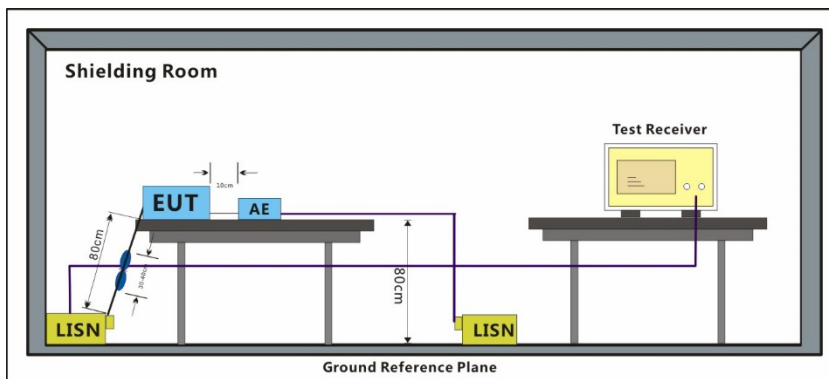
7.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.3 °C Humidity: 50.7 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	20	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



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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: Level=Read Level+ Cable Loss+ LISN Factor



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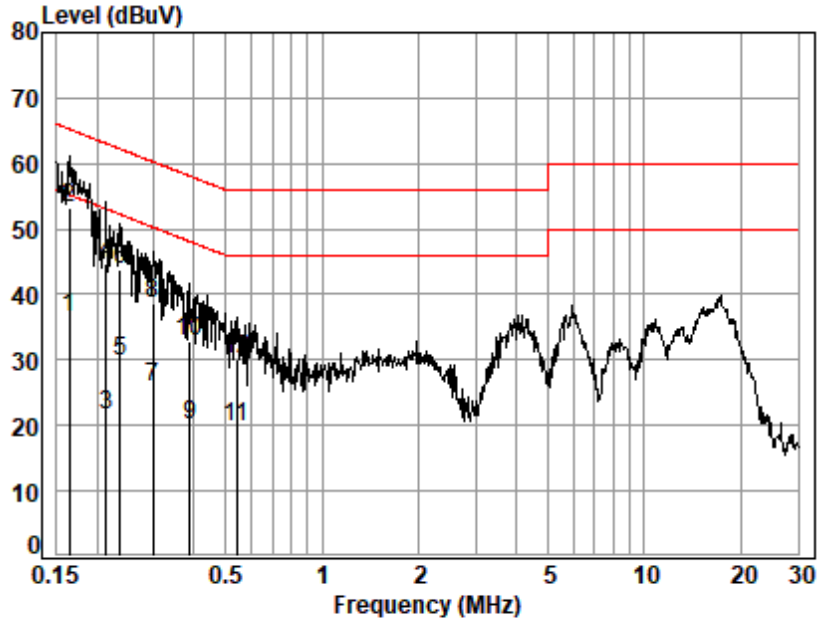
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Test Mode: 20; Line: Live line



Site : Shielding Room
 Condition: Line
 Job No. : 00384AT
 Test mode: 20

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1641	0.02	0.25	36.11	55.25	-18.87	Average
2	0.1641	0.02	0.25	53.10	65.25	-11.88	QP
3	0.2128	0.02	0.26	21.21	53.10	-31.61	Average
4	0.2128	0.02	0.26	44.38	63.10	-18.44	QP
5	0.2366	0.02	0.26	29.47	52.22	-22.47	Average
6	0.2366	0.02	0.26	43.50	62.22	-18.44	QP
7	0.2987	0.03	0.26	25.49	50.28	-24.50	Average
8	0.2987	0.03	0.26	38.31	60.28	-21.68	QP
9	0.3872	0.03	0.27	19.87	48.12	-27.95	Average
10	0.3872	0.03	0.27	32.63	58.12	-25.19	QP
11	0.5436	0.03	0.26	19.59	46.00	-26.12	Average
12	0.5436	0.03	0.26	29.92	56.00	-25.79	QP



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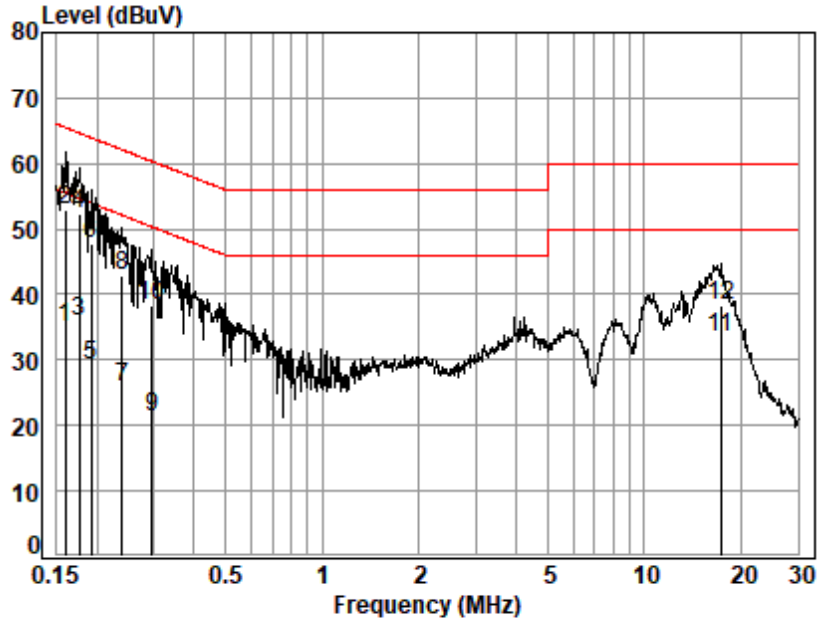
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Test Mode: 20; Line: Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 00384AT
 Test mode: 20

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1590	0.02	0.30	34.72	55.52	-20.48	Average
2	0.1590	0.02	0.30	52.61	65.52	-12.59	QP
3	0.1768	0.02	0.30	35.44	54.64	-18.88	Average
4	0.1768	0.02	0.30	51.98	64.64	-12.34	QP
5	0.1924	0.02	0.29	28.95	53.93	-24.67	Average
6	0.1924	0.02	0.29	47.47	63.93	-16.15	QP
7	0.2391	0.02	0.29	25.66	52.13	-26.16	Average
8	0.2391	0.02	0.29	42.64	62.13	-19.18	QP
9	0.2955	0.03	0.28	21.10	50.37	-28.96	Average
10	0.2955	0.03	0.28	38.15	60.37	-21.91	QP
11	17.2908	0.05	0.22	33.13	50.00	-16.60	Average
12	17.2908	0.05	0.22	38.11	60.00	-21.62	QP



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7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

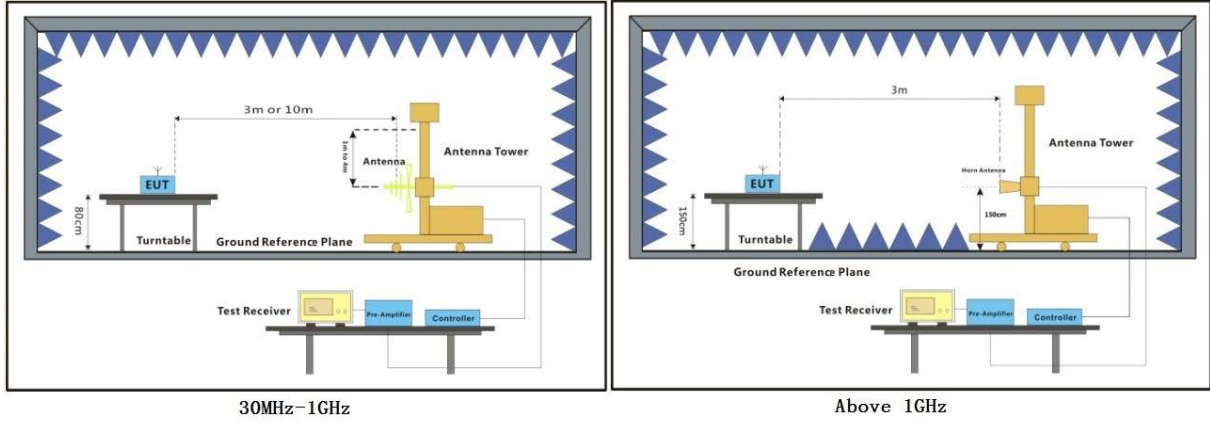
Pre-scan / Final test	Mode Code	Description
Pre-scan	19	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.
Final test	20	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.



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7.2.3 Test Setup Diagram



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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 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: 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.

Remark 3: 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 widest bandwidth which can be covered the same channel (center frequency) on modes with narrower bandwidth that have the same or lower output power for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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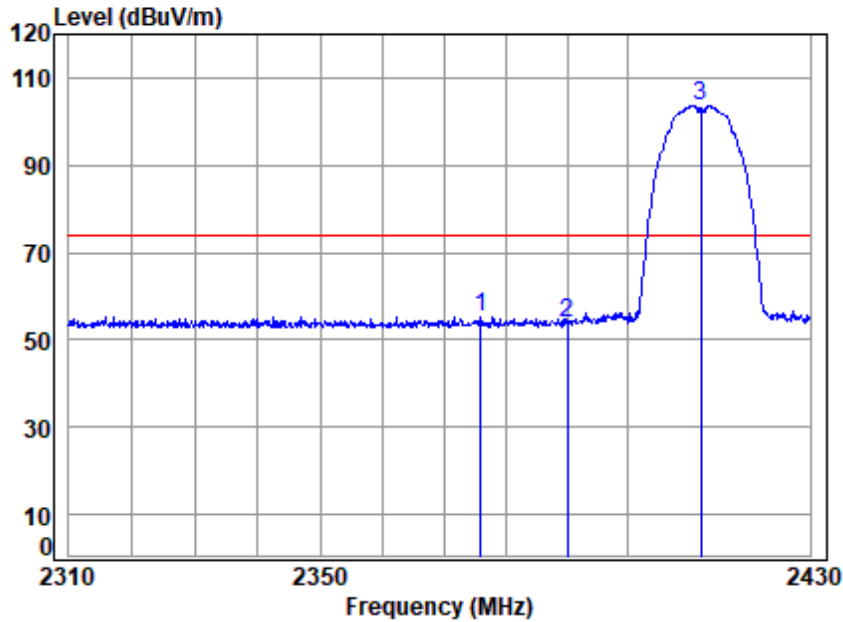
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

Page: 19 of 74

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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11B

		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	2375.969	5.04	27.13	32.50	55.72	55.39	74.00	-18.61 peak
2	2390.000	5.05	27.16	32.50	53.92	53.63	74.00	-20.37 peak
3	2412.000	5.07	27.21	32.50	103.92	103.70	74.00	29.70 peak



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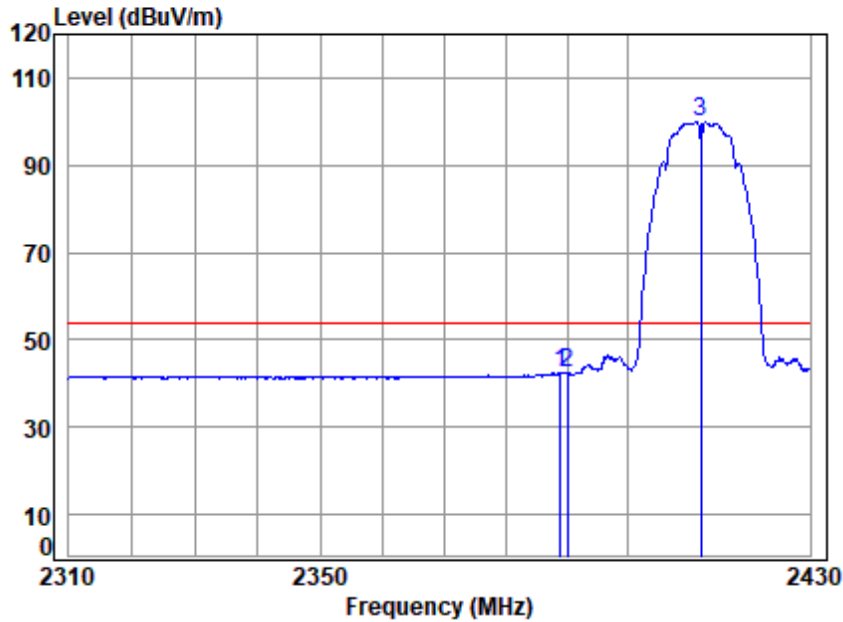
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.879	5.05	27.16	32.50	42.87	42.58	54.00	-11.42	Average
2	2390.000	5.05	27.16	32.50	42.71	42.42	54.00	-11.58	Average
3	2412.000	5.07	27.21	32.50	100.30	100.08	54.00	46.08	Average



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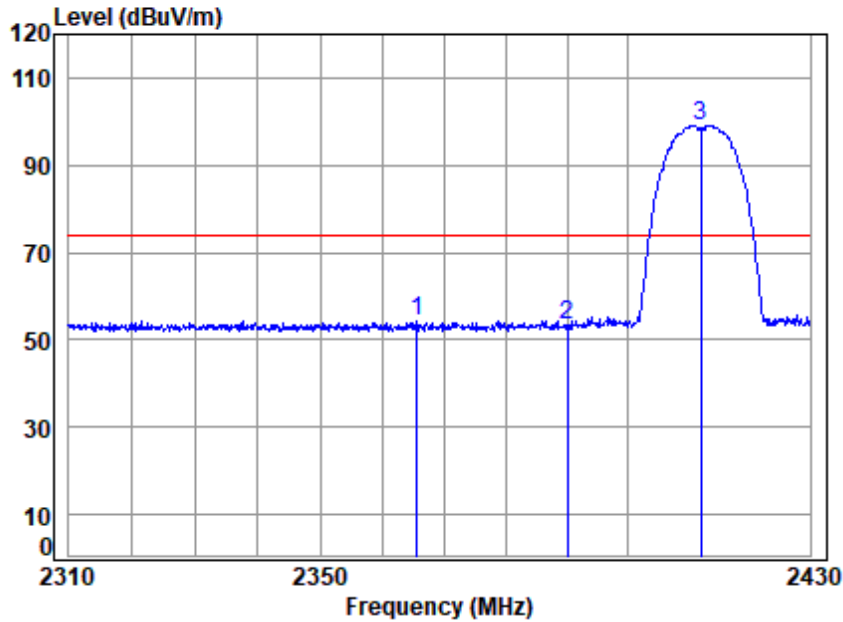
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	2365.644	5.04	27.10	32.50	54.77	54.41	74.00	-19.59 Peak
2	2390.000	5.05	27.16	32.50	53.50	53.21	74.00	-20.79 Peak
3	2412.000	5.07	27.21	32.50	99.32	99.10	74.00	25.10 Peak



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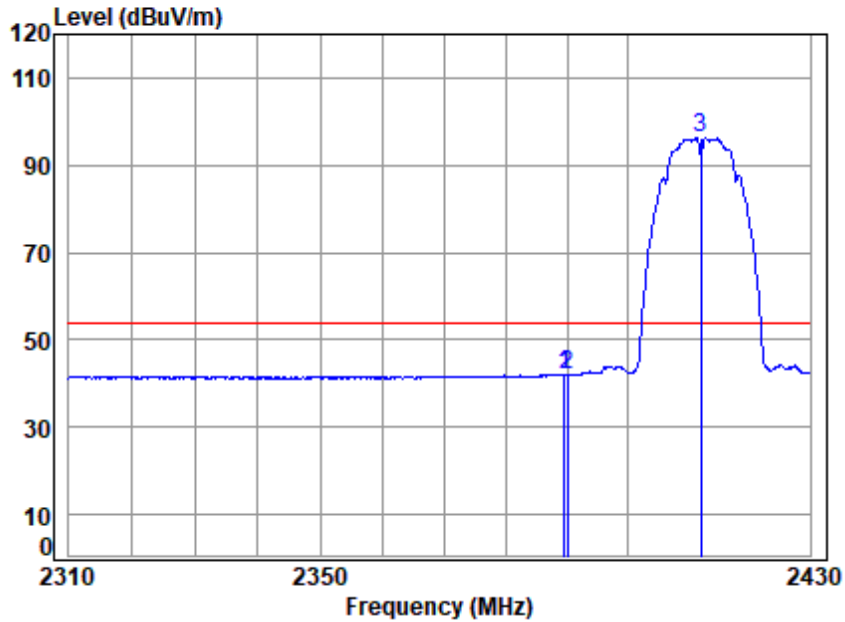
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11B

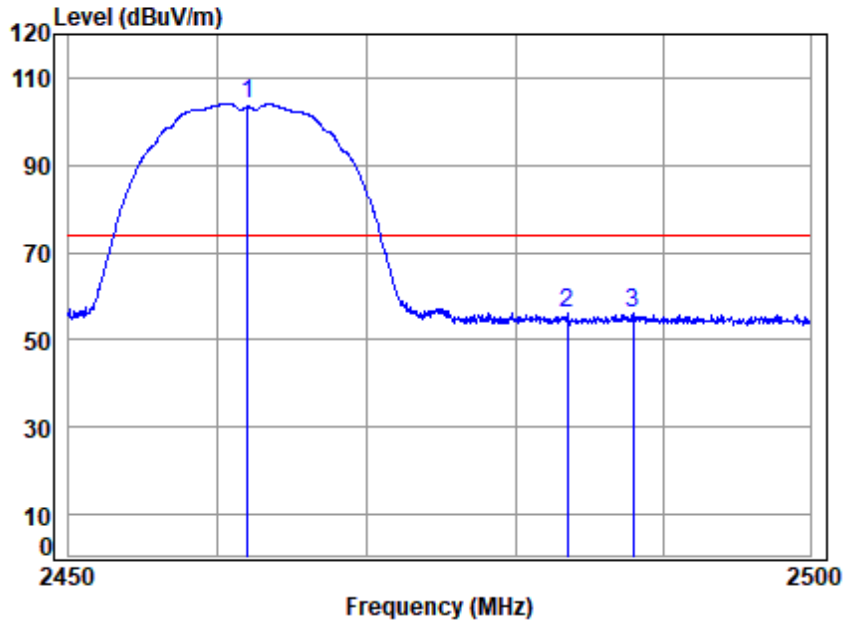
		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.484	5.05	27.16	32.50	42.43	42.14	54.00	-11.86	Average
2	2390.000	5.05	27.16	32.50	42.14	41.85	54.00	-12.15	Average
3	2412.000	5.07	27.21	32.50	96.58	96.36	54.00	42.36	Average



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.000	5.10	27.32	32.50	104.21	104.13	74.00	30.13	peak
2	2483.500	5.12	27.36	32.50	55.98	55.96	74.00	-18.04	peak
3	2488.008	5.12	27.37	32.50	55.94	55.93	74.00	-18.07	peak



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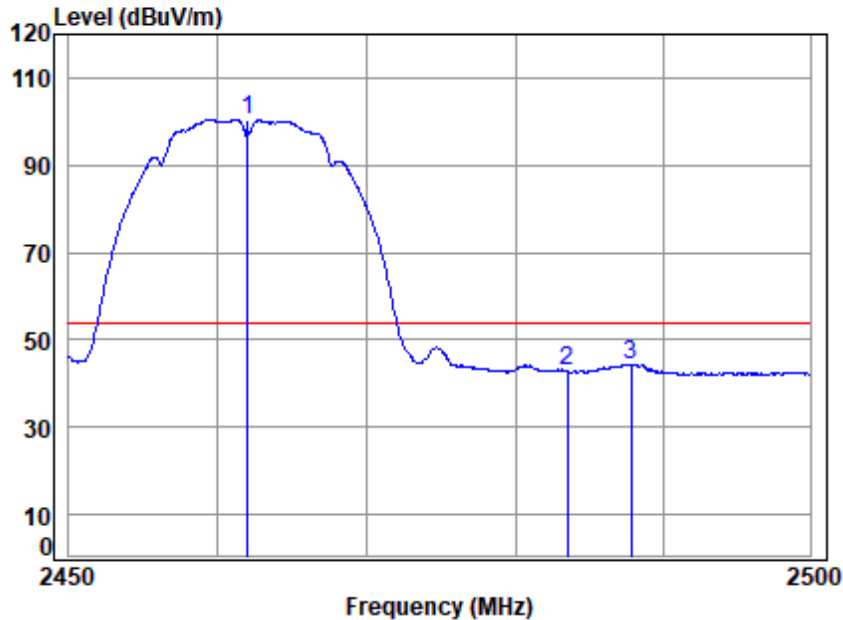
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.000	5.10	27.32	32.50	100.69	100.61	54.00	46.61	Average
2	2483.500	5.12	27.36	32.50	42.92	42.90	54.00	-11.10	Average
3	2487.857	5.12	27.37	32.50	44.48	44.47	54.00	-9.53	Average



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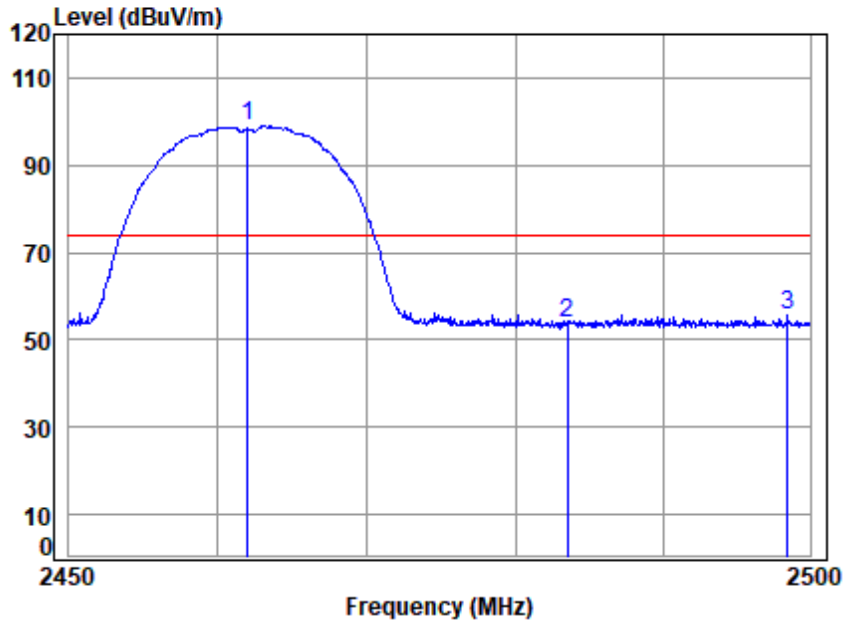
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.000	5.10	27.32	32.50	98.96	98.88	74.00	24.88	Peak
2	2483.500	5.12	27.36	32.50	53.79	53.77	74.00	-20.23	Peak
3	2498.485	5.13	27.40	32.50	55.61	55.64	74.00	-18.36	Peak



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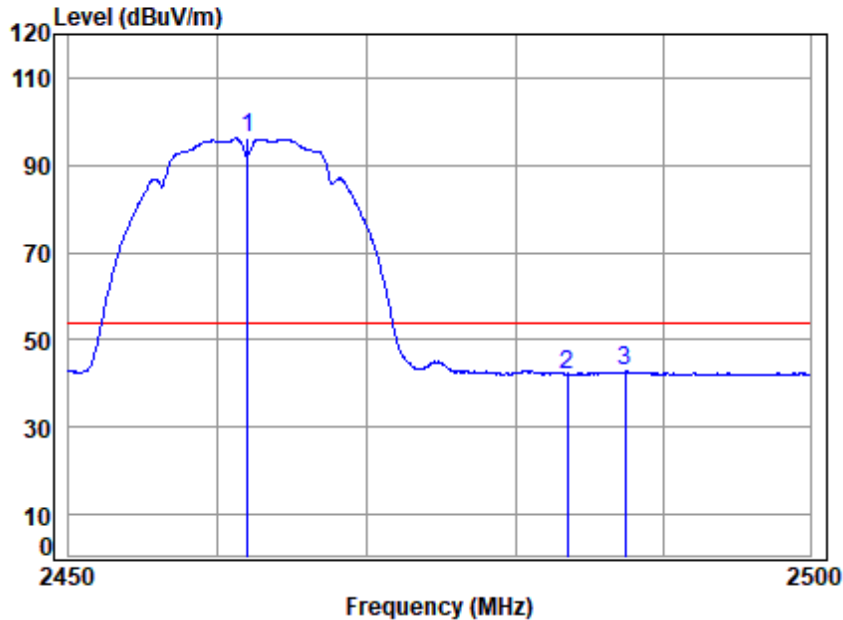
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11B

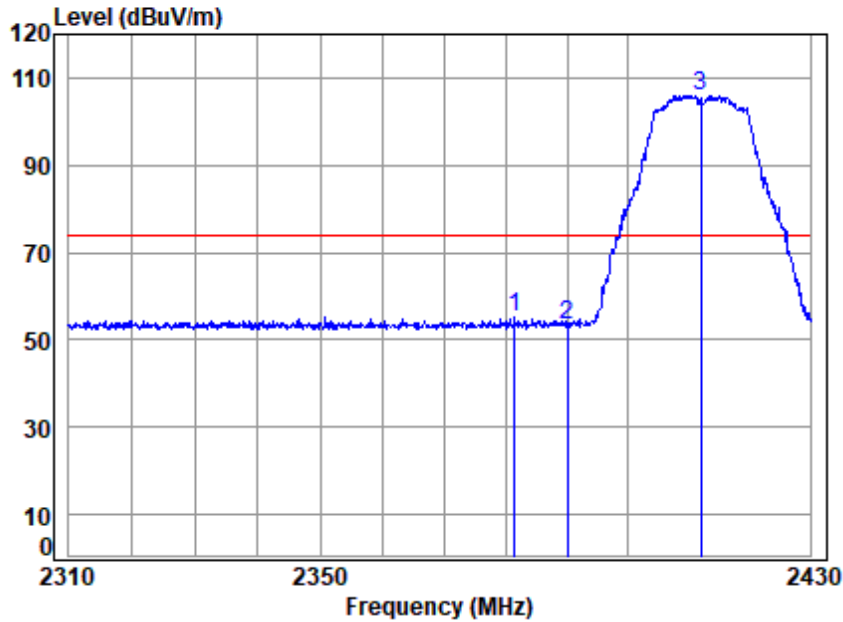
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.000	5.10	27.32	32.50	96.21	96.13	54.00	42.13	Average
2	2483.500	5.12	27.36	32.50	42.17	42.15	54.00	-11.85	Average
3	2487.405	5.12	27.37	32.50	42.69	42.68	54.00	-11.32	Average



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11G

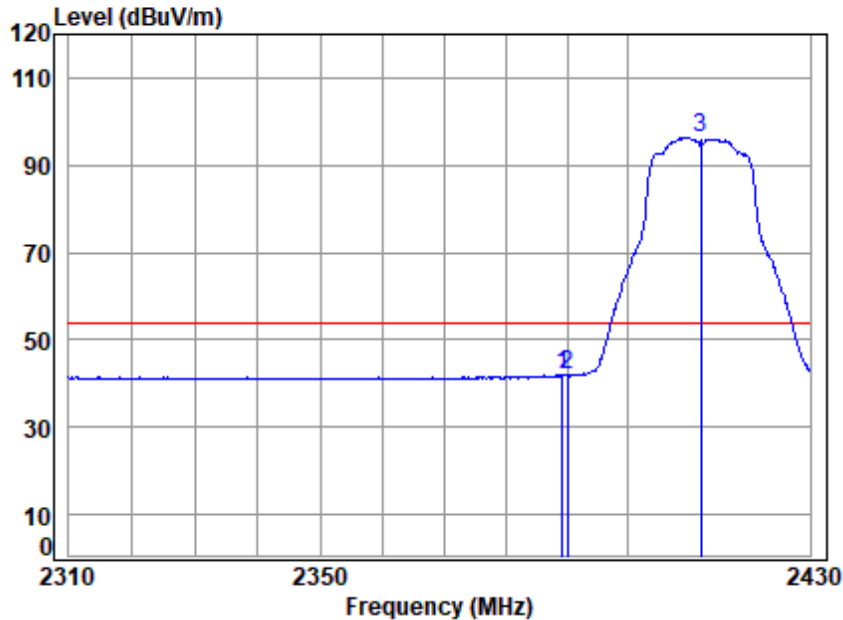
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2381.511	5.05	27.14	32.50	55.52	55.21	74.00	-18.79 peak
2	2390.000	5.05	27.16	32.50	53.83	53.54	74.00	-20.46 peak
3	2412.000	5.07	27.21	32.50	106.27	106.05	74.00	32.05 peak



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11G

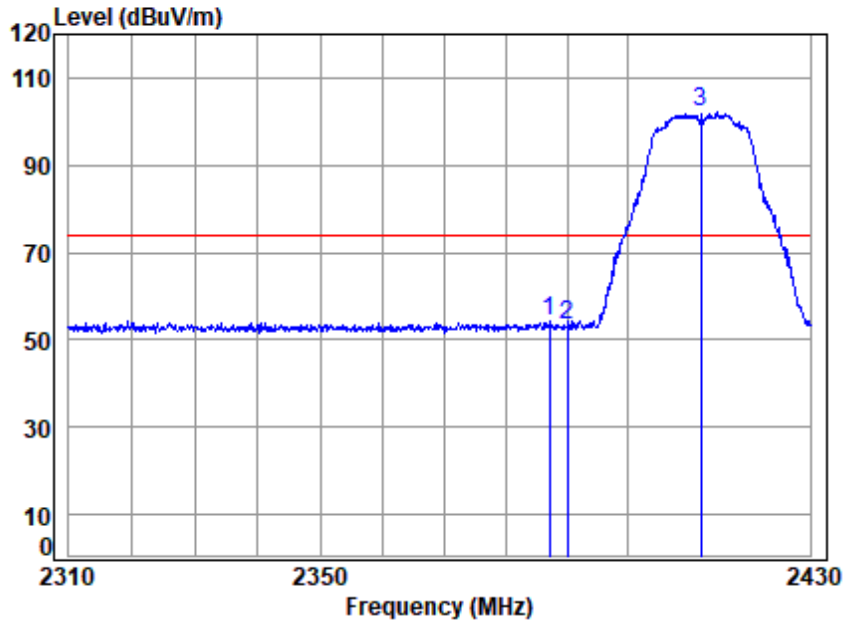
		Cable	Ant	Preamp	Read	Limit	Over		
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.242	5.05	27.16	32.50	42.27	41.98	54.00	-12.02	Average
2	2390.000	5.05	27.16	32.50	42.10	41.81	54.00	-12.19	Average
3	2412.000	5.07	27.21	32.50	96.47	96.25	54.00	42.25	Average



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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11G

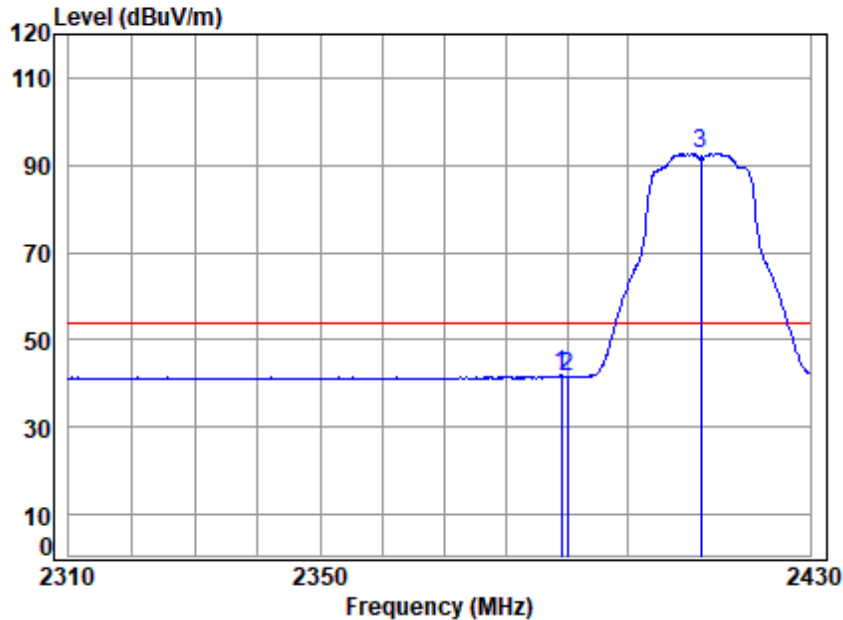
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.186	5.05	27.15	32.50	54.59	54.29	74.00	-19.71	Peak
2	2390.000	5.05	27.16	32.50	53.70	53.41	74.00	-20.59	Peak
3	2412.000	5.07	27.21	32.50	102.37	102.15	74.00	28.15	Peak



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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2412 Band edge
 Note : 2.4G WIFI 11G

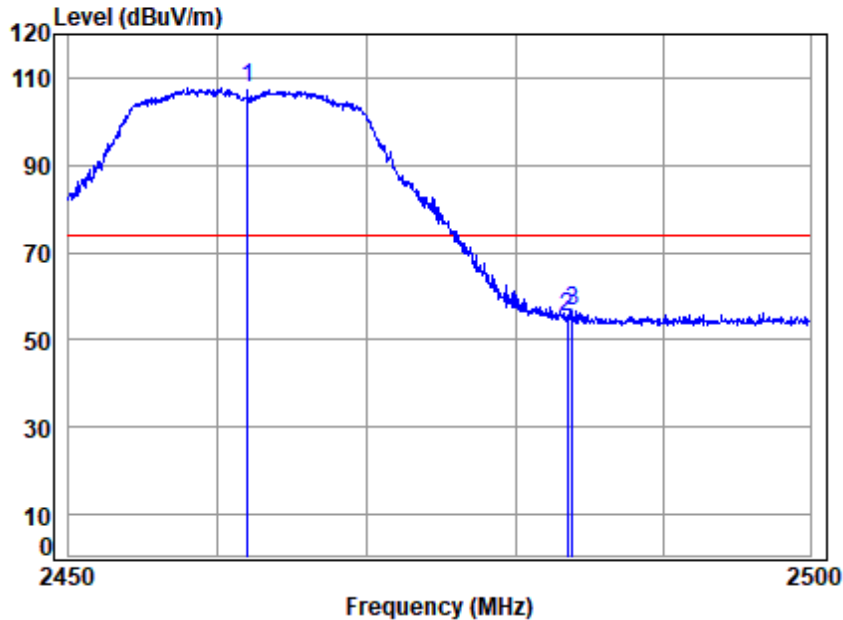
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.000	5.05	27.16	32.50	42.08	41.79	54.00	-12.21	Average
2	2390.000	5.05	27.16	32.50	41.80	41.51	54.00	-12.49	Average
3	2412.000	5.07	27.21	32.50	92.82	92.60	54.00	38.60	Average



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11G

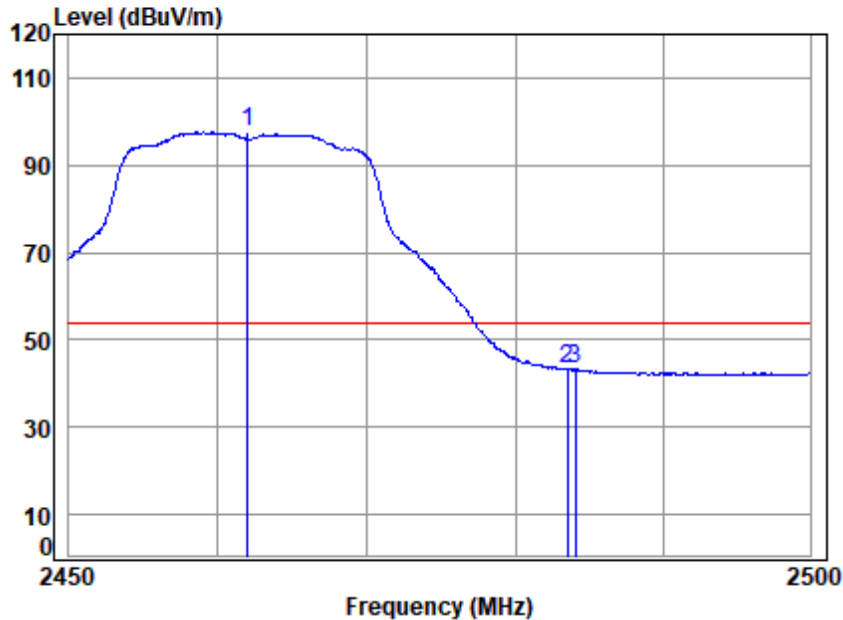
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.000	5.10	27.32	32.50	107.90	107.82	74.00	33.82	peak
2	2483.500	5.12	27.36	32.50	55.28	55.26	74.00	-18.74	peak
3	2483.890	5.12	27.37	32.50	56.76	56.75	74.00	-17.25	peak



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.000	5.10	27.32	32.50	97.60	97.52	54.00	43.52	Average
2	2483.500	5.12	27.36	32.50	43.30	43.28	54.00	-10.72	Average
3	2484.041	5.12	27.37	32.50	43.36	43.35	54.00	-10.65	Average



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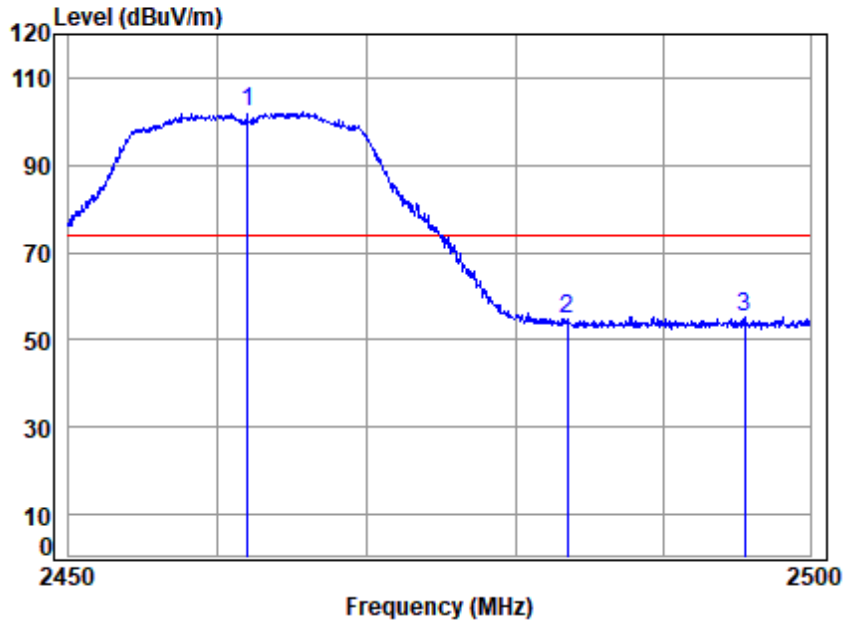
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.000	5.10	27.32	32.50	102.08	102.00	74.00	28.00	Peak
2	2483.500	5.12	27.36	32.50	54.77	54.75	74.00	-19.25	Peak
3	2495.559	5.13	27.39	32.50	55.15	55.17	74.00	-18.83	Peak



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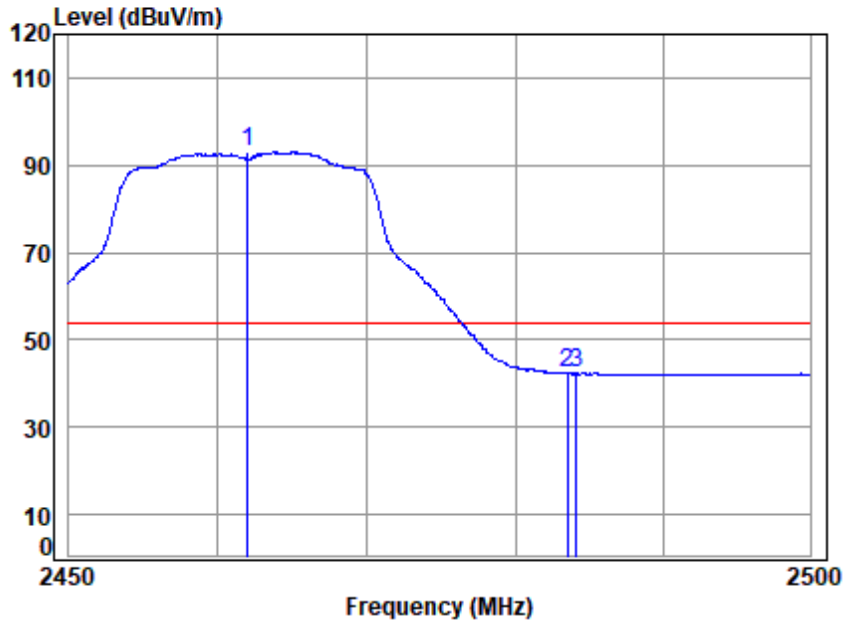
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2462 Band edge
 Note : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2462.000	5.10	27.32	32.50	93.09	93.01	54.00	39.01	Average
2	2483.500	5.12	27.36	32.50	42.23	42.21	54.00	-11.79	Average
3	2484.141	5.12	27.37	32.50	42.47	42.46	54.00	-11.54	Average



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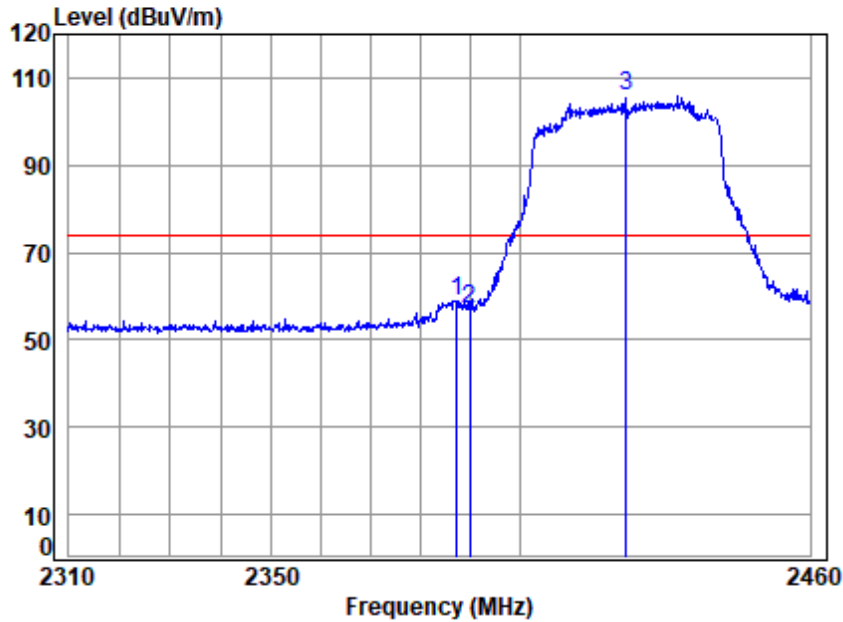
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2422 Band edge
 Note : 2.4G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.423	5.05	27.15	32.50	59.20	58.90	74.00	-15.10	peak
2	2390.000	5.05	27.16	32.50	57.31	57.02	74.00	-16.98	peak
3	2422.000	5.08	27.23	32.50	105.98	105.79	74.00	31.79	peak



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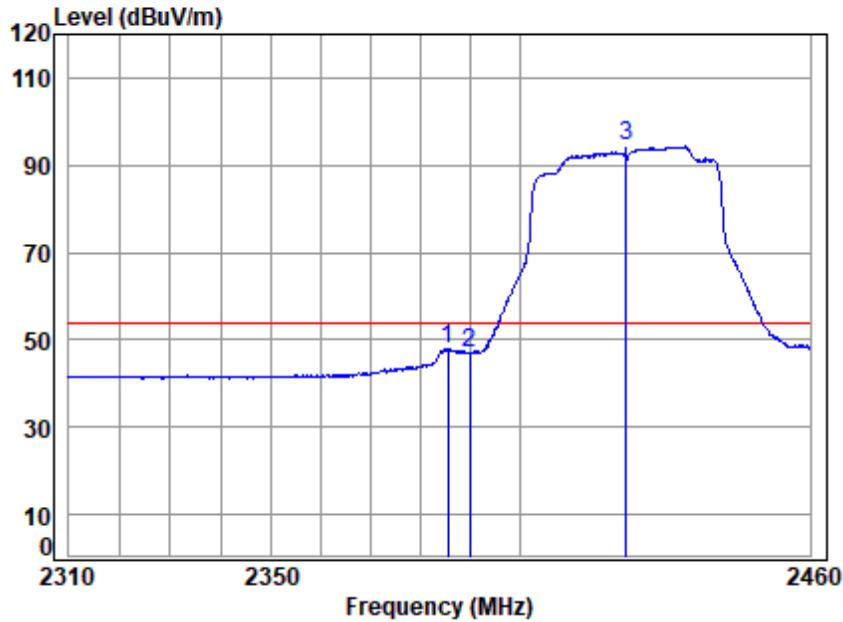
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2422 Band edge
 Note : 2.4G WIFI 11AX40

		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	2385.471	5.05	27.15	32.50	48.24	47.94	54.00	-6.06	Average
2	2390.000	5.05	27.16	32.50	47.38	47.09	54.00	-6.91	Average
3	2422.000	5.08	27.23	32.50	94.46	94.27	54.00	40.27	Average



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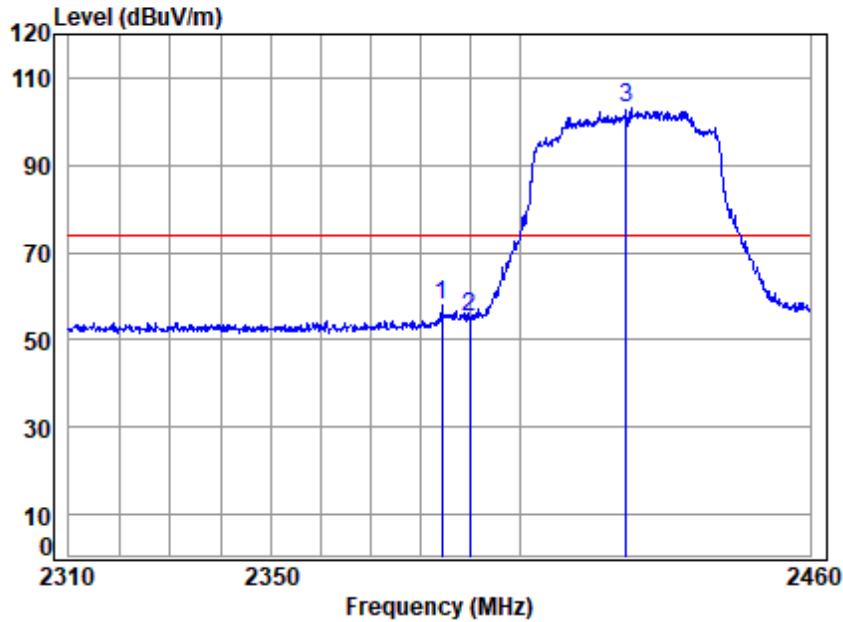
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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2422 Band edge
 Note : 2.4G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2384.271	5.05	27.15	32.50	58.45	58.15	74.00	-15.85	Peak
2	2390.000	5.05	27.16	32.50	55.29	55.00	74.00	-19.00	Peak
3	2422.000	5.08	27.23	32.50	103.19	103.00	74.00	29.00	Peak



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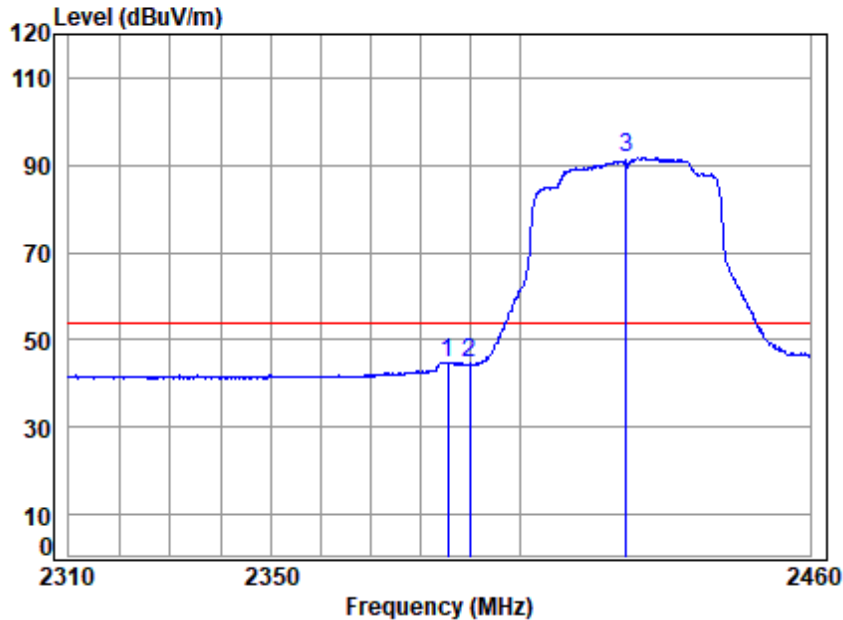
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2422 Band edge
 Note : 2.4G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2385.621	5.05	27.15	32.50	45.22	44.92	54.00	-9.08	Average
2	2390.000	5.05	27.16	32.50	44.98	44.69	54.00	-9.31	Average
3	2422.000	5.08	27.23	32.50	91.85	91.66	54.00	37.66	Average



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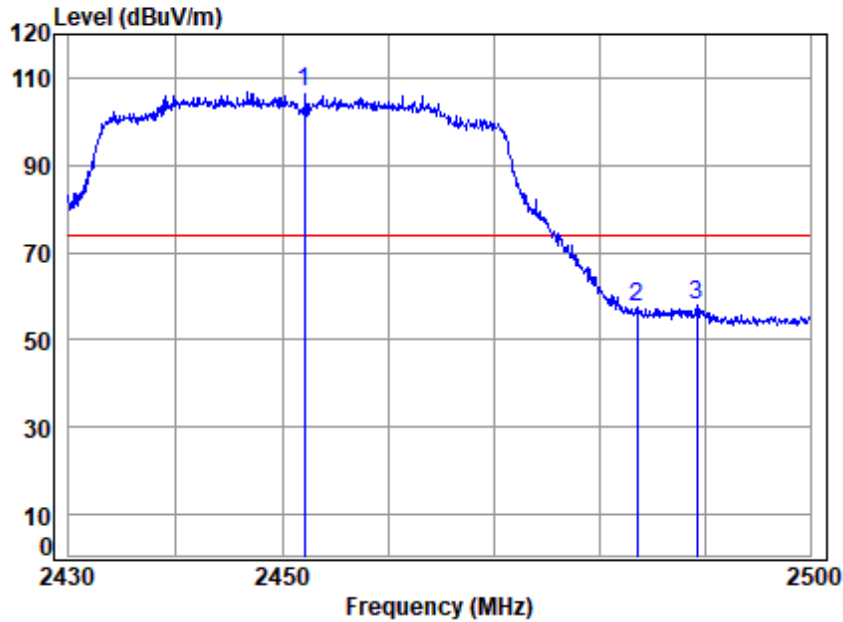
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Report No.: FYCR220900038403

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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2452 Band edge
 Note : 2.4G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.000	5.10	27.30	32.50	106.76	106.66	74.00	32.66	peak
2	2483.500	5.12	27.36	32.50	57.35	57.33	74.00	-16.67	peak
3	2489.161	5.12	27.38	32.50	57.94	57.94	74.00	-16.06	peak



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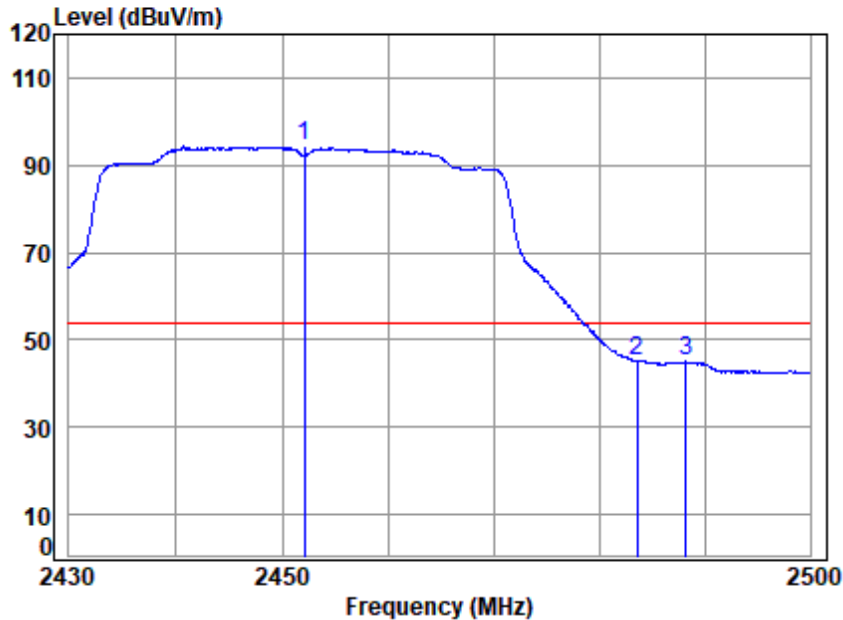
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Report No.: FYCR220900038403

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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2452 Band edge
 Note : 2.4G WIFI 11AX40

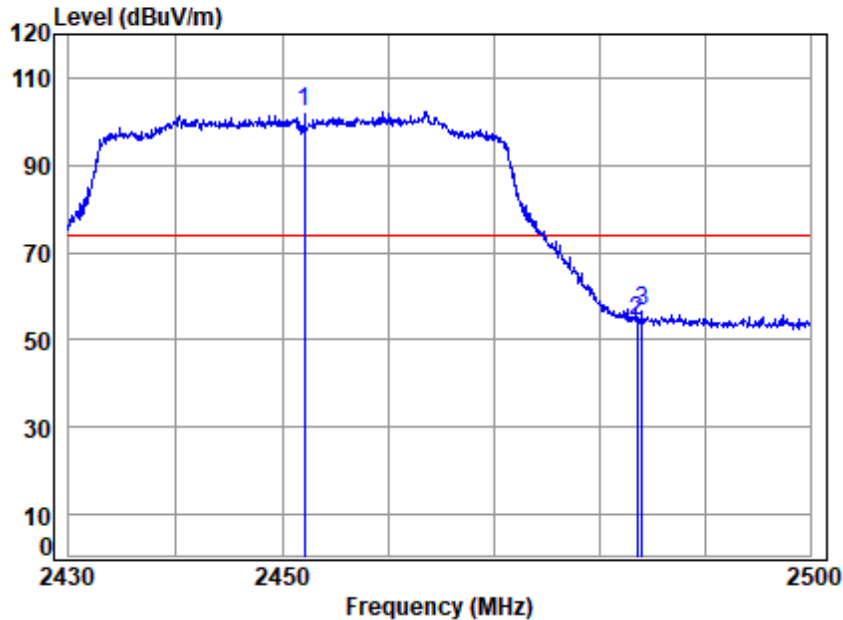
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 . 2452.000	5.10	27.30	32.50	94.34	94.24	54.00	40.24	Average
2 2483.500	5.12	27.36	32.50	45.36	45.34	54.00	-8.66	Average
3 2488.101	5.12	27.37	32.50	45.27	45.26	54.00	-8.74	Average



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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2452 Band edge
 Note : 2.4G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.000	5.10	27.30	32.50	102.32	102.22	74.00	28.22	Peak
2	2483.500	5.12	27.36	32.50	54.38	54.36	74.00	-19.64	Peak
3	2483.935	5.12	27.37	32.50	56.73	56.72	74.00	-17.28	Peak



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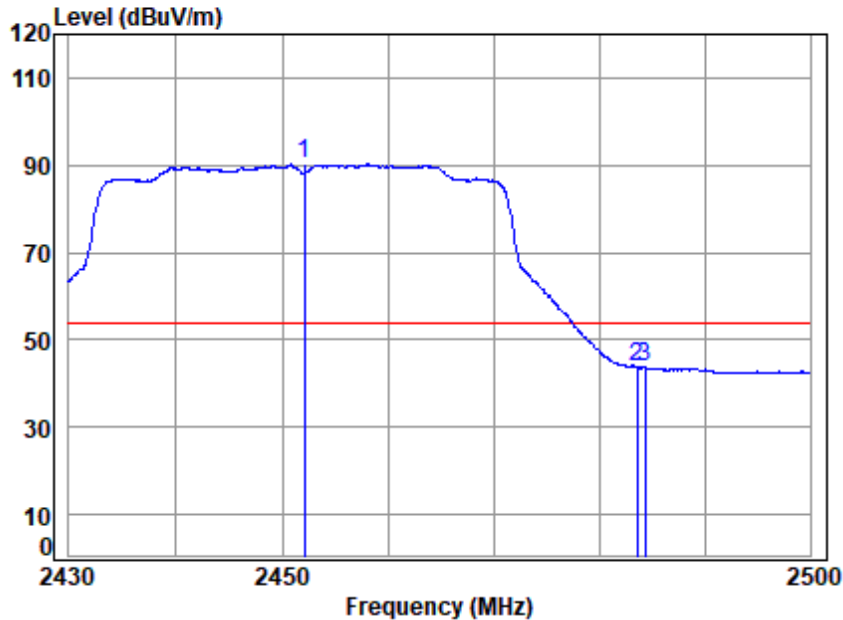
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2452 Band edge
 Note : 2.4G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2452.000	5.10	27.30	32.50	90.30	90.20	54.00	36.20	Average
2	2483.500	5.12	27.36	32.50	43.96	43.94	54.00	-10.06	Average
3	2484.288	5.12	27.37	32.50	43.86	43.85	54.00	-10.15	Average



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7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement: 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2013) Section 6.4,6.5
 Measurement Distance: 3m
 Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.2 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

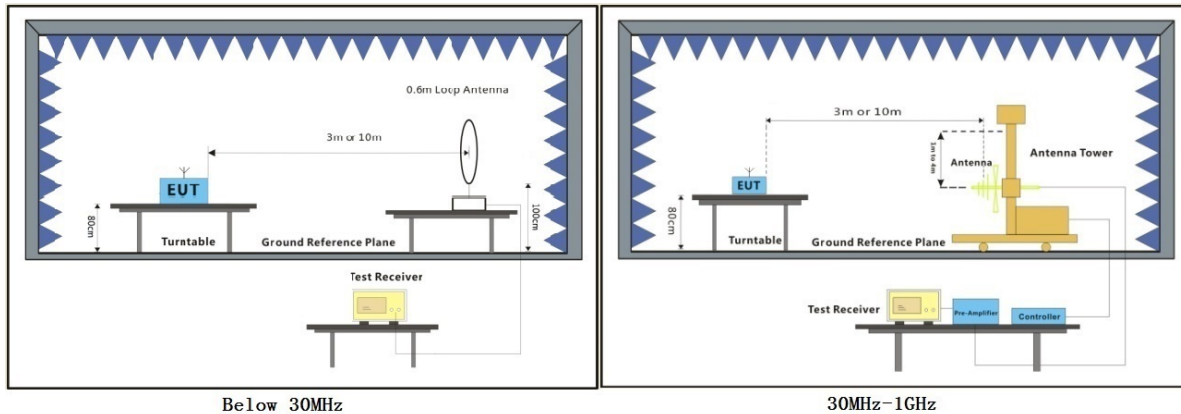
Pre-scan / Final test	Mode Code	Description
Pre-scan	19	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.
Final test	20	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.



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7.3.3 Test Setup Diagram



7.3.4 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. 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. 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.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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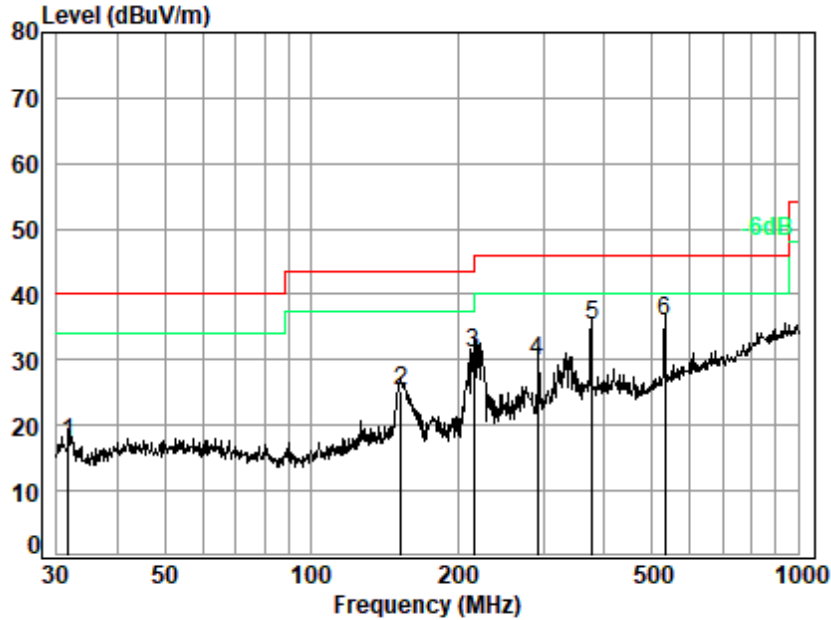
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Test Mode: 20; Polarity: Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.7313	0.20	15.29	26.03	27.90	17.36	40.00	-22.64	QP
2	152.6641	0.89	17.37	25.52	32.38	25.12	43.50	-18.38	QP
3	216.0240	0.75	15.72	25.46	40.04	31.05	46.00	-14.95	QP
4	292.0583	0.99	18.00	25.40	36.30	29.89	46.00	-16.11	QP
5	377.2591	1.61	20.15	25.44	38.96	35.28	46.00	-10.72	QP
6	531.9635	1.70	23.58	25.33	36.04	35.99	46.00	-10.01	QP



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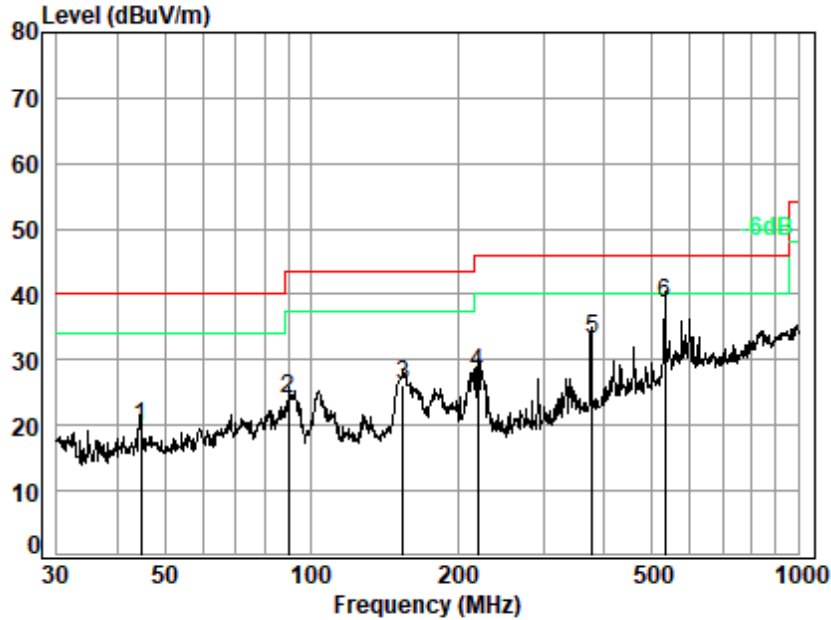
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Test Mode: 20; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	44.7435	0.23	17.29	26.01	28.16	19.67	40.00	-20.33	QP
2	89.9047	0.67	13.61	25.70	35.32	23.90	43.50	-19.60	QP
3	154.2786	0.88	17.33	25.52	33.57	26.26	43.50	-17.24	QP
4	219.8449	0.76	15.84	25.46	36.91	28.05	46.00	-17.95	QP
5	377.2591	1.61	20.15	25.44	36.79	33.11	46.00	-12.89	QP
6	531.9635	1.70	23.58	25.33	38.63	38.58	46.00	-7.42	QP



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

Page: 47 of 74

7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2013) Section 6.6
 Measurement Distance: 3m
 Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

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

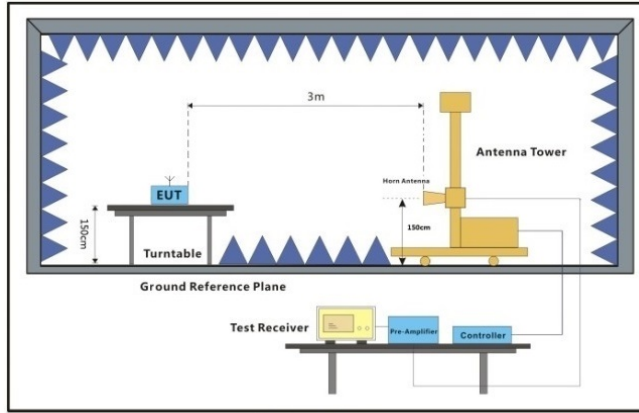
Pre-scan / Final test	Mode Code	Description
Pre-scan	19	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.
Final test	20	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.



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7.4.3 Test Setup Diagram



Above 1GHz



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7.4.4 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 1GHz to 25GHz, 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.

Remark 4: 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 widest bandwidth which can be covered the same channel (center frequency) on modes with narrower bandwidth that have the same or lower output power for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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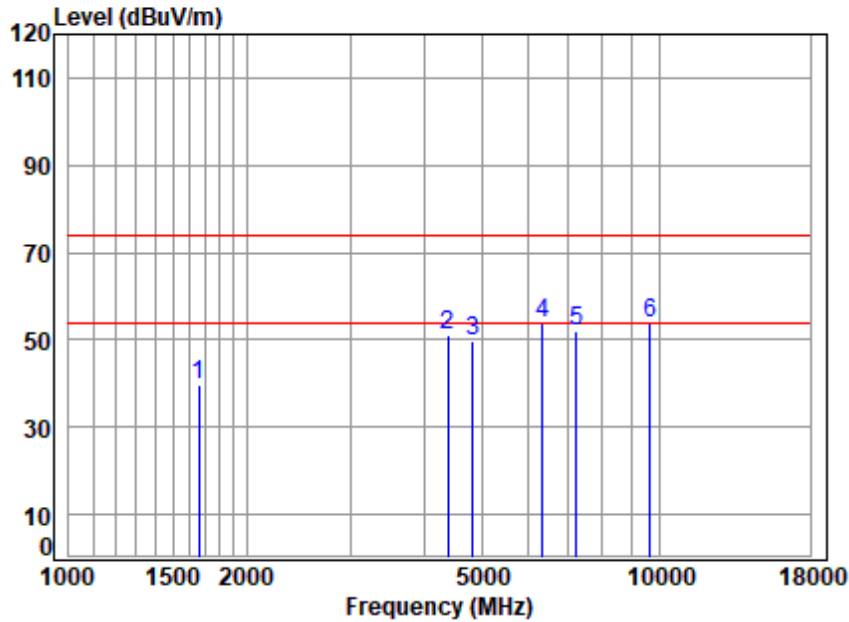
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

Page: 50 of 74

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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2412 TX RSE
 : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1658.337	4.11	24.92	52.94	63.47	39.56	74.00	-34.44 peak
2	4392.376	7.47	30.06	52.93	66.36	50.96	74.00	-23.04 peak
3	4824.000	8.02	30.99	53.05	63.95	49.91	74.00	-24.09 peak
4	6340.436	7.68	33.92	53.05	65.19	53.74	74.00	-20.26 peak
5	7236.000	8.31	36.09	53.52	61.36	52.24	74.00	-21.76 peak
6	9648.000	11.38	37.62	53.54	58.19	53.65	74.00	-20.35 peak



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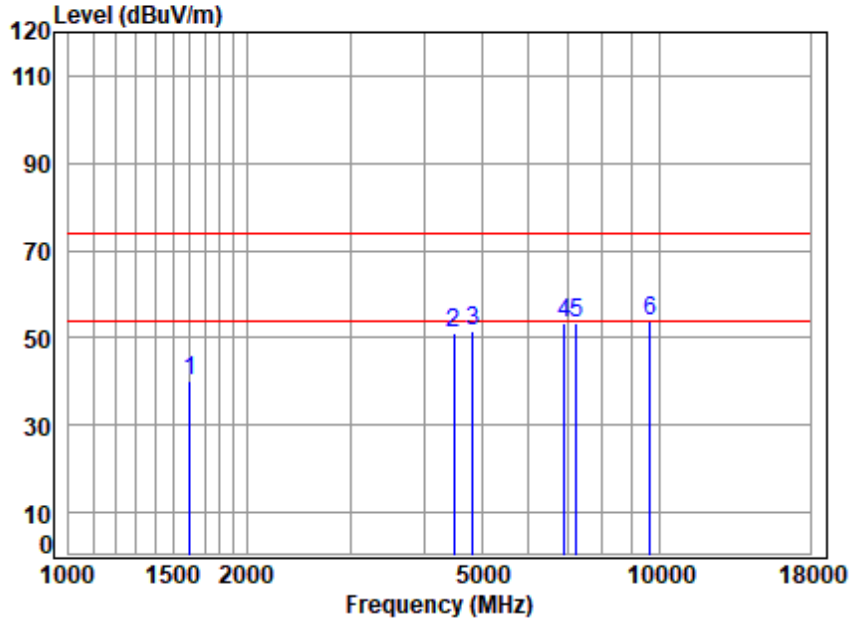
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2412 TX RSE
 : 2.4G WIFI 11B

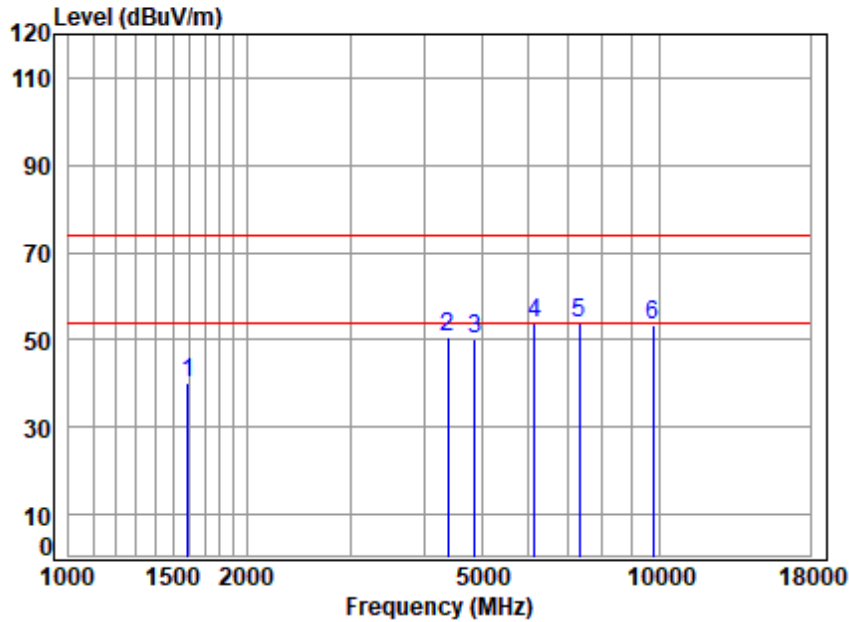
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1606.441	4.00	24.81	52.91	64.45	40.35	74.00	-33.65 peak
2	4482.150	7.47	30.18	52.95	66.20	50.90	74.00	-23.10 peak
3	4824.000	8.02	30.99	53.05	65.69	51.65	74.00	-22.35 peak
4	6894.806	8.09	35.55	53.43	63.34	53.55	74.00	-20.45 peak
5	7236.000	8.31	36.09	53.52	62.51	53.39	74.00	-20.61 peak
6	9648.000	11.38	37.62	53.54	58.39	53.85	74.00	-20.15 peak



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Test Mode: 20; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	3.97	24.78	52.90	64.22	40.07	74.00	-33.93	peak
2	4379.699	7.47	30.04	52.92	65.87	50.46	74.00	-23.54	peak
3	4874.000	8.10	31.11	53.07	64.10	50.24	74.00	-23.76	peak
4	6142.019	7.66	33.04	52.91	66.19	53.98	74.00	-20.02	peak
5	7311.000	8.34	36.18	53.53	62.72	53.71	74.00	-20.29	peak
6	9748.000	11.30	37.84	53.44	57.53	53.23	74.00	-20.77	peak



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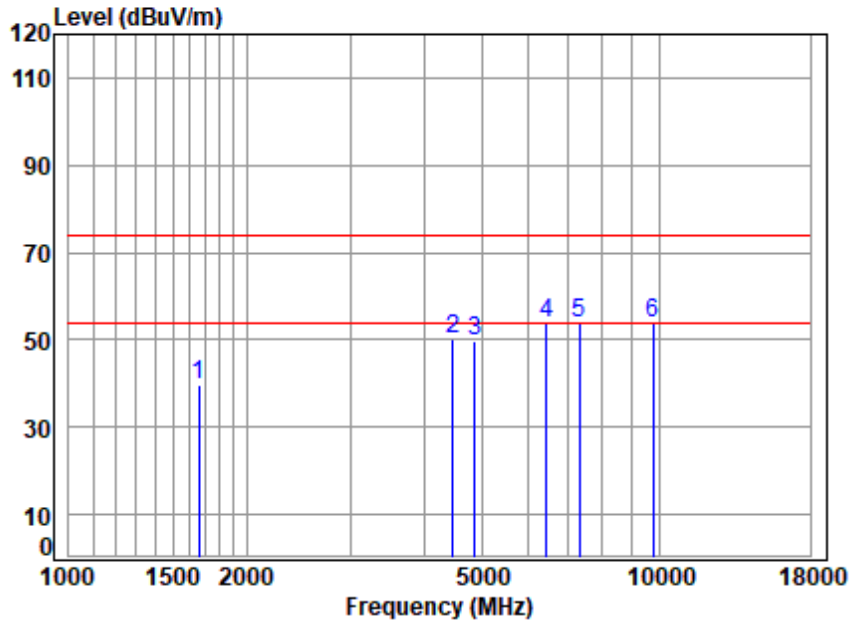
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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Test Mode: 20; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11B

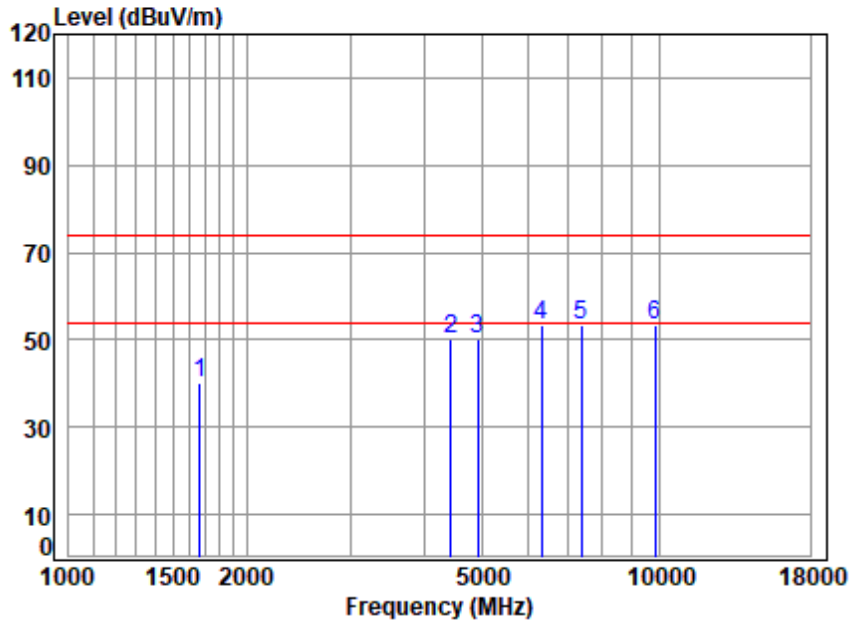
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1658.337	4.11	24.92	52.94	63.74	39.83	74.00	-34.17 peak
2	4469.214	7.47	30.16	52.95	65.38	50.06	74.00	-23.94 peak
3	4874.000	8.10	31.11	53.07	63.58	49.72	74.00	-24.28 peak
4	6432.732	7.69	34.31	53.12	64.99	53.87	74.00	-20.13 peak
5	7311.000	8.34	36.18	53.53	62.83	53.82	74.00	-20.18 peak
6	9748.000	11.30	37.84	53.44	57.99	53.69	74.00	-20.31 peak



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2462 TX RSE
 : 2.4G WIFI 11B

		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	1667.951	4.13	24.94	52.94	64.13	40.26	74.00	-33.74 peak
2	4443.453	7.47	30.12	52.94	65.66	50.31	74.00	-23.69 peak
3	4924.000	8.18	31.23	53.08	63.85	50.18	74.00	-23.82 peak
4	6322.136	7.68	33.84	53.04	64.71	53.19	74.00	-20.81 peak
5	7386.000	8.38	36.27	53.54	62.33	53.44	74.00	-20.56 peak
6	9848.000	11.23	38.07	53.35	57.25	53.20	74.00	-20.80 peak



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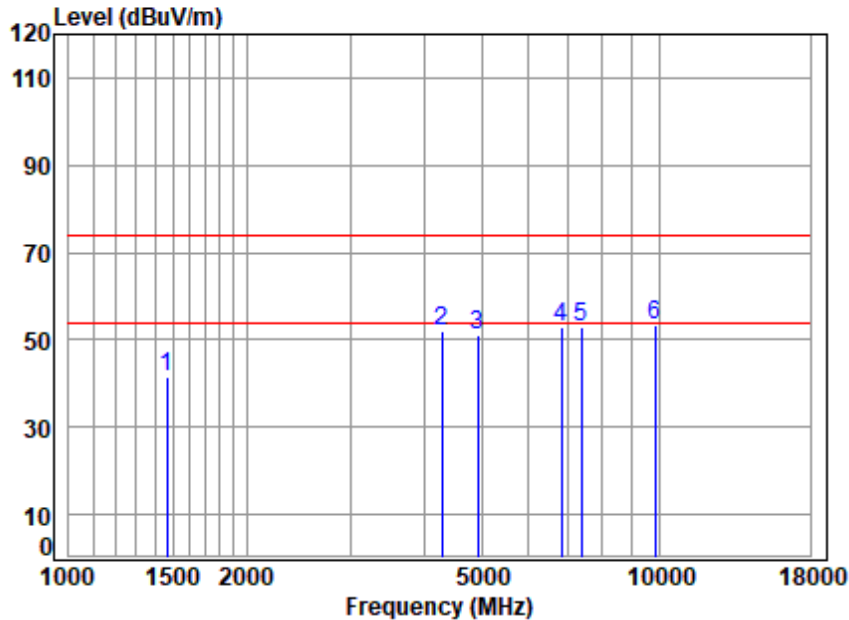
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

Page: 55 of 74

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2462 TX RSE
 : 2.4G WIFI 11B

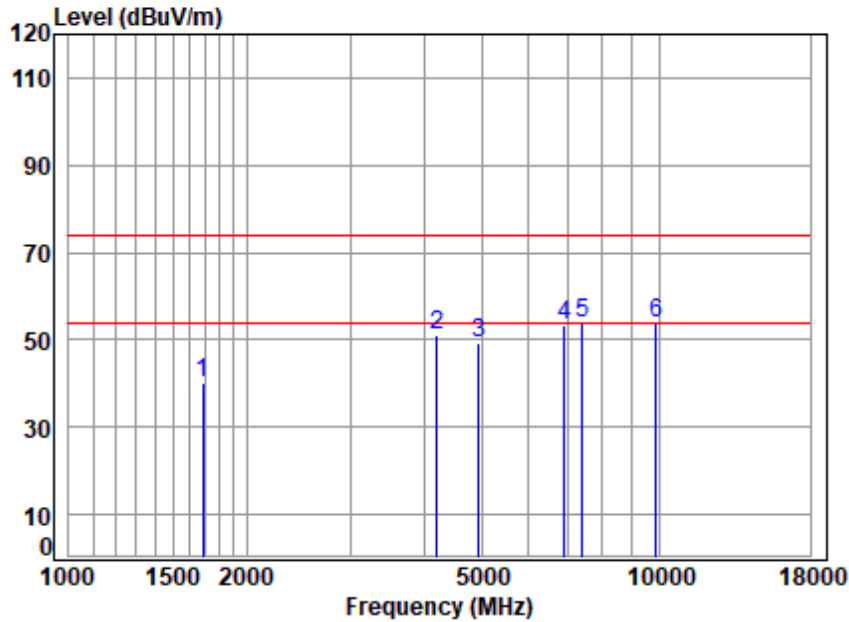
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1464.522	3.70	24.40	52.83	66.46	41.73	74.00	-32.27	peak
2	4279.589	7.48	29.90	52.89	67.53	52.02	74.00	-21.98	peak
3	4924.000	8.18	31.23	53.08	64.91	51.24	74.00	-22.76	peak
4	6835.278	8.03	35.41	53.39	62.88	52.93	74.00	-21.07	peak
5	7386.000	8.38	36.27	53.54	61.80	52.91	74.00	-21.09	peak
6	9848.000	11.23	38.07	53.35	57.32	53.27	74.00	-20.73	peak



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2472 TX RSE
 : 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	4.17	24.98	52.95	64.12	40.32	74.00	-33.68	peak
2	4206.011	7.48	29.80	52.87	66.80	51.21	74.00	-22.79	peak
3	4944.000	8.21	31.27	53.08	62.99	49.39	74.00	-24.61	peak
4	6914.763	8.11	35.60	53.44	63.05	53.32	74.00	-20.68	peak
5	7416.000	8.39	36.30	53.54	62.68	53.83	74.00	-20.17	peak
6	9888.000	11.20	38.15	53.31	57.67	53.71	74.00	-20.29	peak



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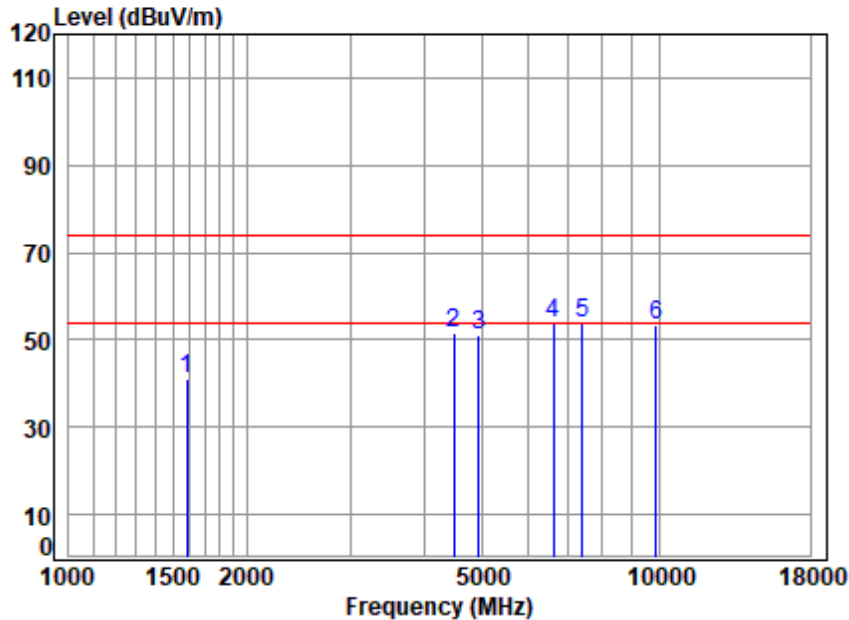
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2472 TX RSE
 : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1583.392	3.95	24.75	52.90	65.08	40.88	74.00	-33.12 peak
2	4482.150	7.47	30.18	52.95	66.89	51.59	74.00	-22.41 peak
3	4944.000	8.21	31.27	53.08	64.49	50.89	74.00	-23.11 peak
4	6621.375	7.82	34.90	53.25	64.46	53.93	74.00	-20.07 peak
5	7416.000	8.39	36.30	53.54	62.51	53.66	74.00	-20.34 peak
6	9888.000	11.20	38.15	53.31	57.27	53.31	74.00	-20.69 peak



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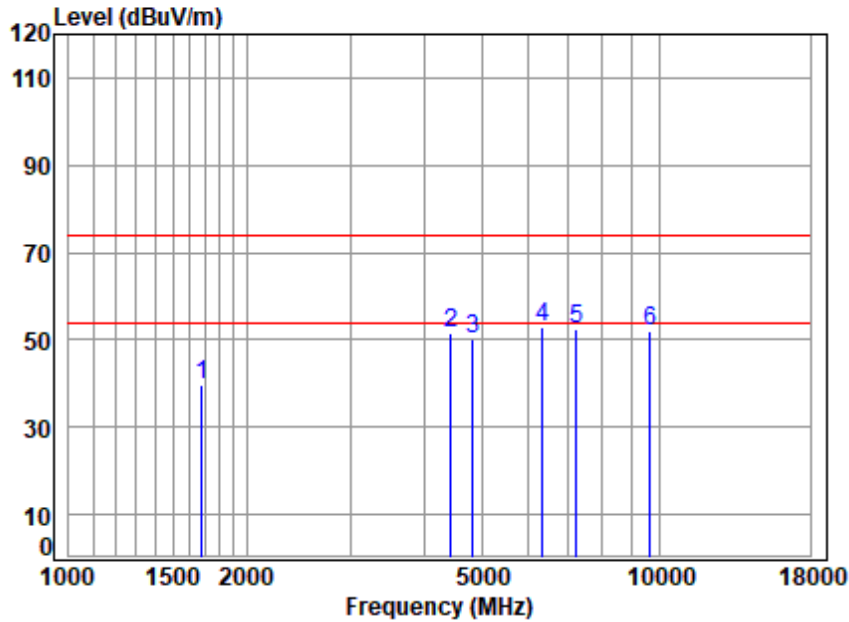
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2412 TX RSE
 : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	4.15	24.96	52.95	63.40	39.56	74.00	-34.44	peak
2	4430.628	7.47	30.11	52.94	67.03	51.67	74.00	-22.33	peak
3	4824.000	8.02	30.99	53.05	64.03	49.99	74.00	-24.01	peak
4	6340.436	7.68	33.92	53.05	64.33	52.88	74.00	-21.12	peak
5	7236.000	8.31	36.09	53.52	61.46	52.34	74.00	-21.66	peak
6	9648.000	11.38	37.62	53.54	56.77	52.23	74.00	-21.77	peak



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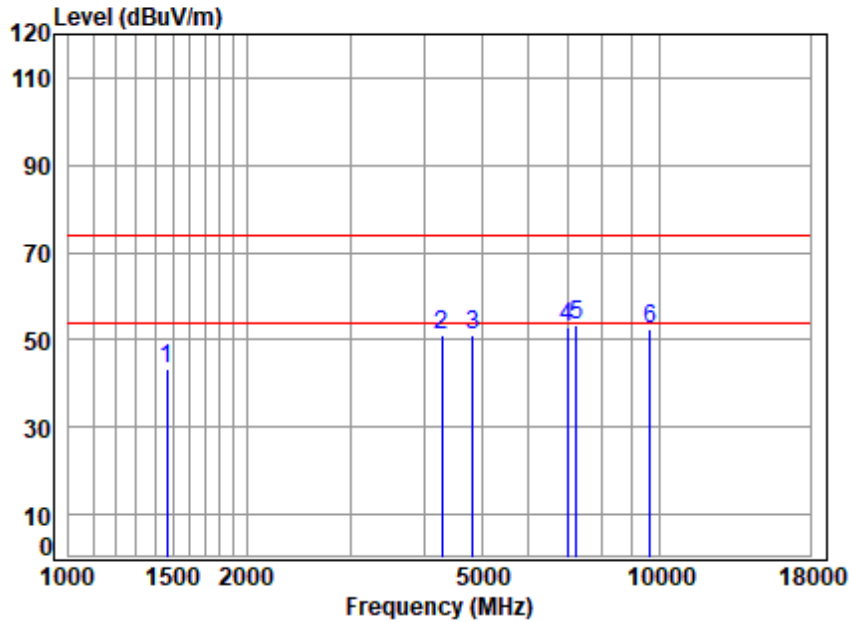
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

Page: 59 of 74

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2412 TX RSE
 : 2.4G WIFI 11G

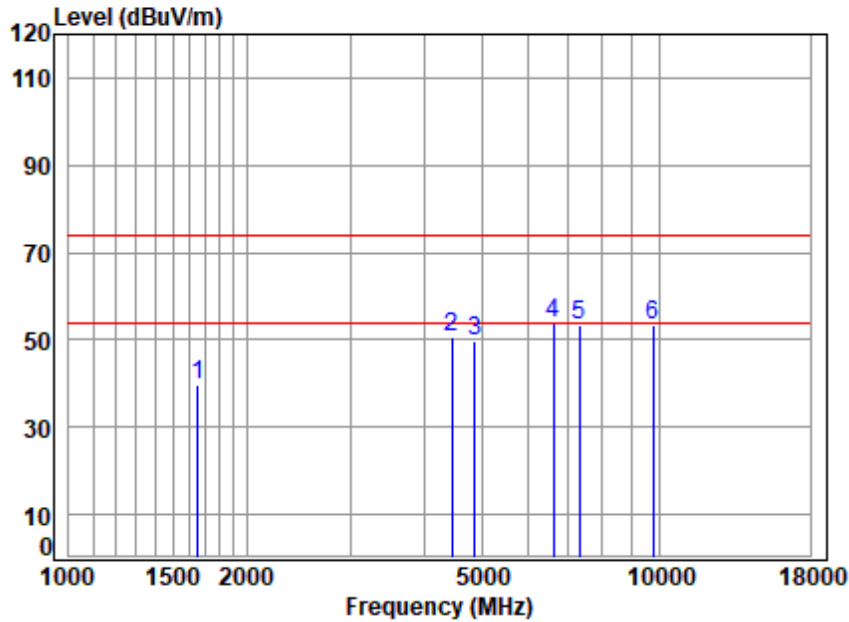
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1464.522	3.70	24.40	52.83	68.08	43.35	74.00	-30.65	peak
2	4291.977	7.48	29.92	52.89	66.59	51.10	74.00	-22.90	peak
3	4824.000	8.02	30.99	53.05	65.20	51.16	74.00	-22.84	peak
4	6974.982	8.17	35.74	53.48	62.48	52.91	74.00	-21.09	peak
5	7236.000	8.31	36.09	53.52	62.47	53.35	74.00	-20.65	peak
6	9648.000	11.38	37.62	53.54	57.10	52.56	74.00	-21.44	peak



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Test Mode: 20; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11G

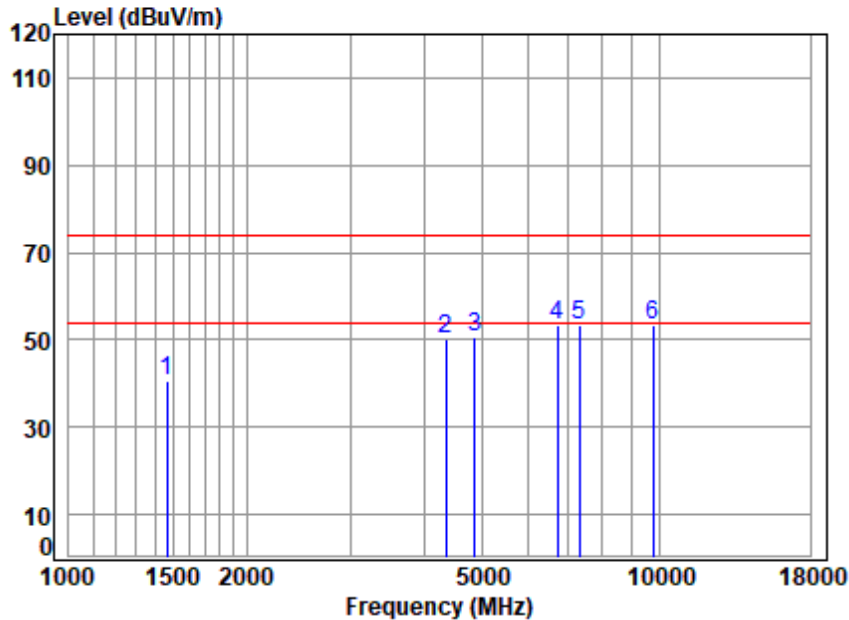
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.550	4.10	24.91	52.94	63.77	39.84	74.00	-34.16	peak
2	4456.315	7.47	30.14	52.95	66.17	50.83	74.00	-23.17	peak
3	4874.000	8.10	31.11	53.07	63.81	49.95	74.00	-24.05	peak
4	6621.375	7.82	34.90	53.25	64.51	53.98	74.00	-20.02	peak
5	7311.000	8.34	36.18	53.53	62.58	53.57	74.00	-20.43	peak
6	9748.000	11.30	37.84	53.44	57.81	53.51	74.00	-20.49	peak



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Test Mode: 20; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11G

		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	1464.522	3.70	24.40	52.83	65.32	40.59	74.00	-33.41 peak
2	4354.454	7.48	30.00	52.91	65.49	50.06	74.00	-23.94 peak
3	4874.000	8.10	31.11	53.07	64.43	50.57	74.00	-23.43 peak
4	6717.762	7.92	35.13	53.31	63.70	53.44	74.00	-20.56 peak
5	7311.000	8.34	36.18	53.53	62.17	53.16	74.00	-20.84 peak
6	9748.000	11.30	37.84	53.44	57.87	53.57	74.00	-20.43 peak



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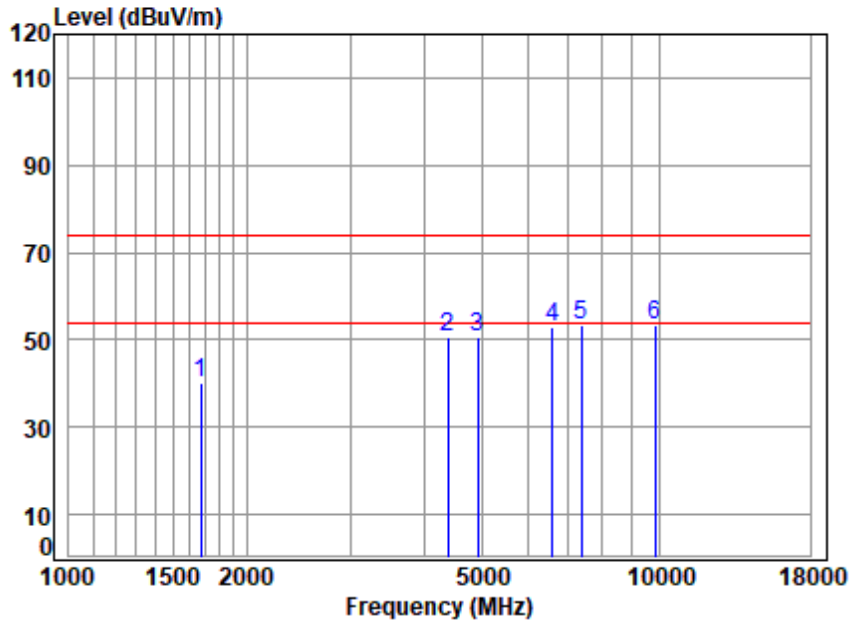
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2462 TX RSE
 : 2.4G WIFI 11G

		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	1672.779	4.14	24.95	52.95	63.83	39.97	74.00	-34.03 peak
2	4392.376	7.47	30.06	52.93	65.94	50.54	74.00	-23.46 peak
3	4924.000	8.18	31.23	53.08	64.16	50.49	74.00	-23.51 peak
4	6583.209	7.78	34.81	53.22	63.66	53.03	74.00	-20.97 peak
5	7386.000	8.38	36.27	53.54	62.41	53.52	74.00	-20.48 peak
6	9848.000	11.23	38.07	53.35	57.50	53.45	74.00	-20.55 peak



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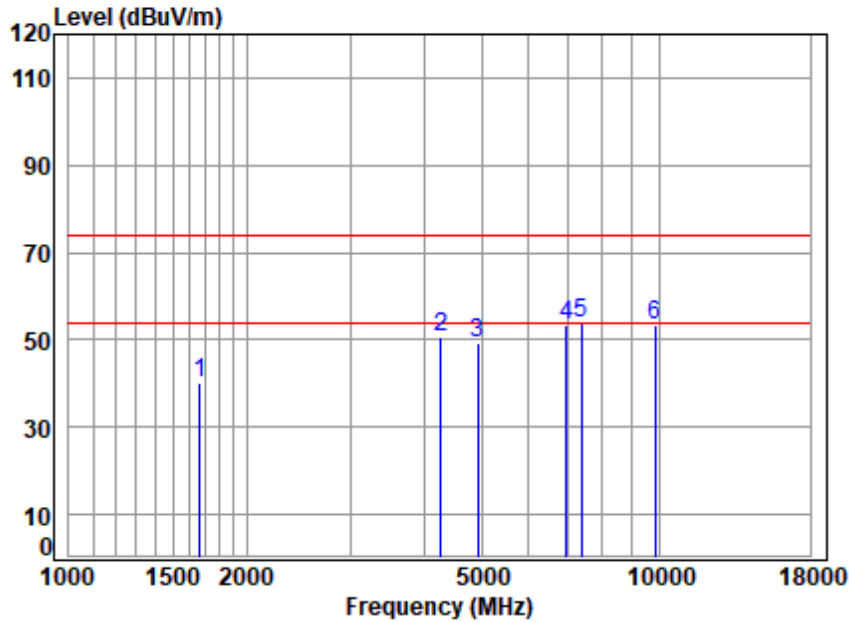
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Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2462 TX RSE
 : 2.4G WIFI 11G

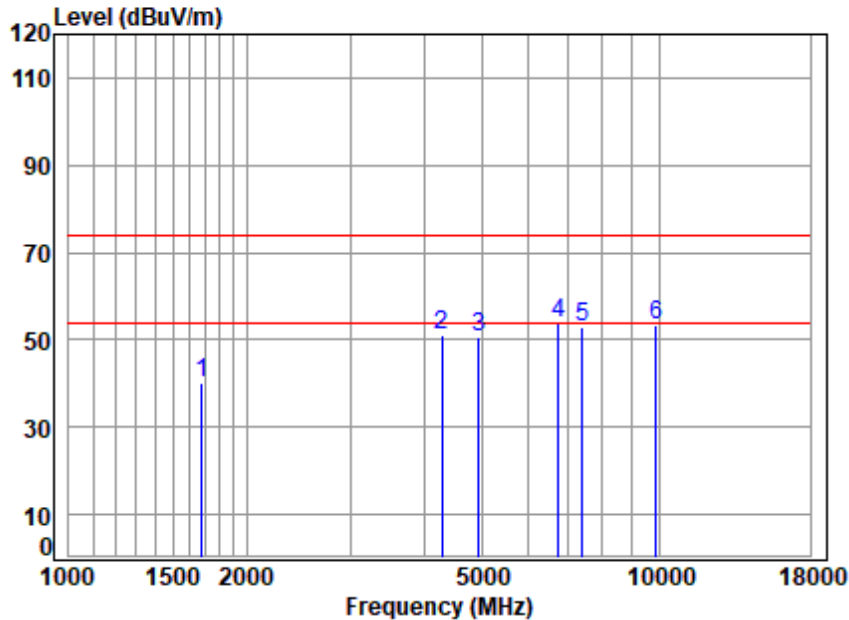
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1667.951	4.13	24.94	52.94	63.90	40.03	74.00	-33.97 peak
2	4267.237	7.48	29.88	52.89	65.98	50.45	74.00	-23.55 peak
3	4924.000	8.18	31.23	53.08	63.12	49.45	74.00	-24.55 peak
4	6954.852	8.15	35.70	53.47	62.89	53.27	74.00	-20.73 peak
5	7386.000	8.38	36.27	53.54	62.56	53.67	74.00	-20.33 peak
6	9848.000	11.23	38.07	53.35	57.63	53.58	74.00	-20.42 peak



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2472 TX RSE
 : 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	4.16	24.97	52.95	63.88	40.06	74.00	-33.94	peak
2	4291.977	7.48	29.92	52.89	66.71	51.22	74.00	-22.78	peak
3	4944.000	8.21	31.27	53.08	64.42	50.82	74.00	-23.18	peak
4	6737.207	7.94	35.18	53.33	64.08	53.87	74.00	-20.13	peak
5	7416.000	8.39	36.30	53.54	61.98	53.13	74.00	-20.87	peak
6	9888.000	11.20	38.15	53.31	57.41	53.45	74.00	-20.55	peak



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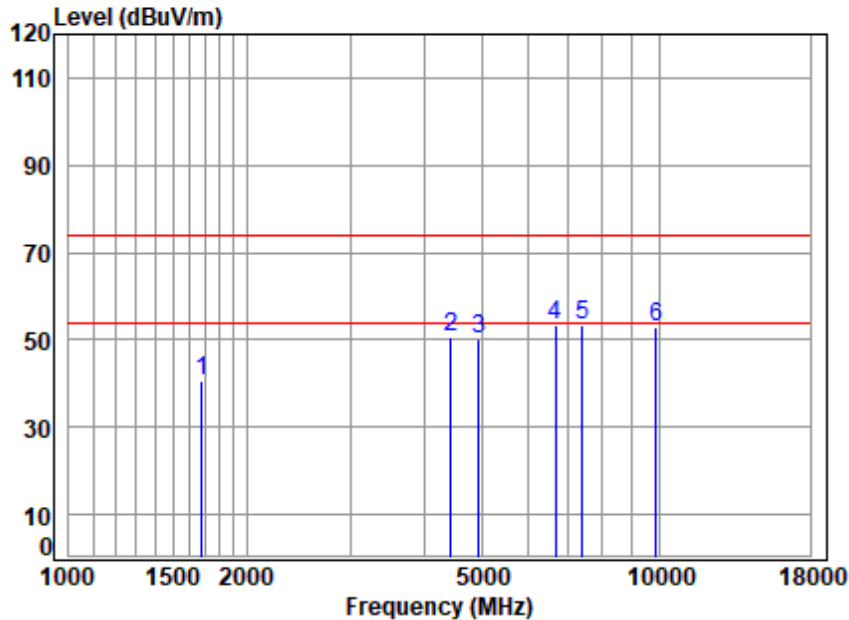
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2472 TX RSE
 : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1677.621	4.15	24.96	52.95	64.53	40.69	74.00	-33.31 peak
2	4443.453	7.47	30.12	52.94	66.11	50.76	74.00	-23.24 peak
3	4944.000	8.21	31.27	53.08	63.89	50.29	74.00	-23.71 peak
4	6659.763	7.86	34.99	53.27	63.62	53.20	74.00	-20.80 peak
5	7416.000	8.39	36.30	53.54	62.41	53.56	74.00	-20.44 peak
6	9888.000	11.20	38.15	53.31	56.98	53.02	74.00	-20.98 peak



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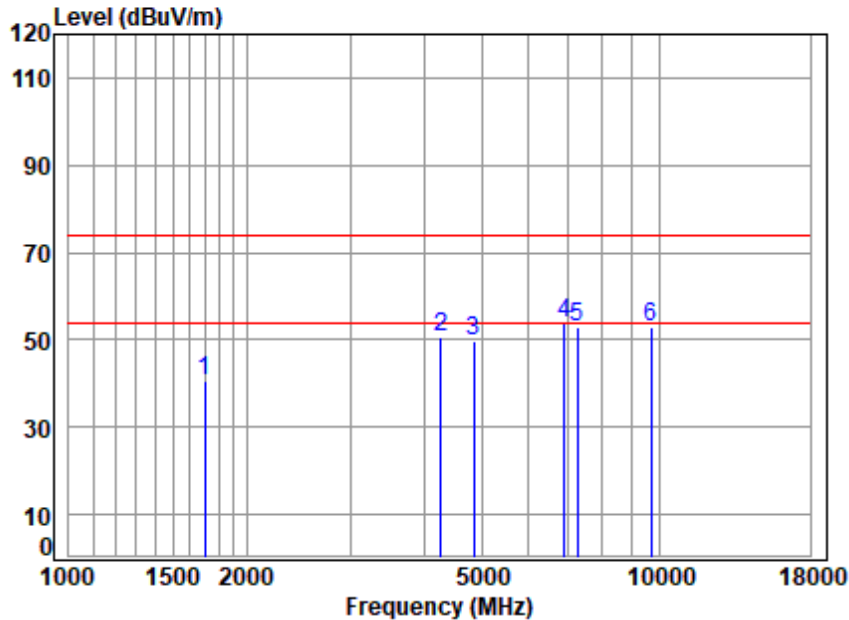
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2422 TX RSE
 : 2.4G WIFI 11AX40

		Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	4.19	25.00	52.96	64.31	40.54	74.00	-33.46	peak
2	4267.237	7.48	29.88	52.89	66.27	50.74	74.00	-23.26	peak
3	4844.000	8.05	31.04	53.06	63.63	49.66	74.00	-24.34	peak
4	6914.763	8.11	35.60	53.44	63.65	53.92	74.00	-20.08	peak
5	7266.000	8.32	36.12	53.53	62.20	53.11	74.00	-20.89	peak
6	9688.000	11.35	37.71	53.50	57.59	53.15	74.00	-20.85	peak



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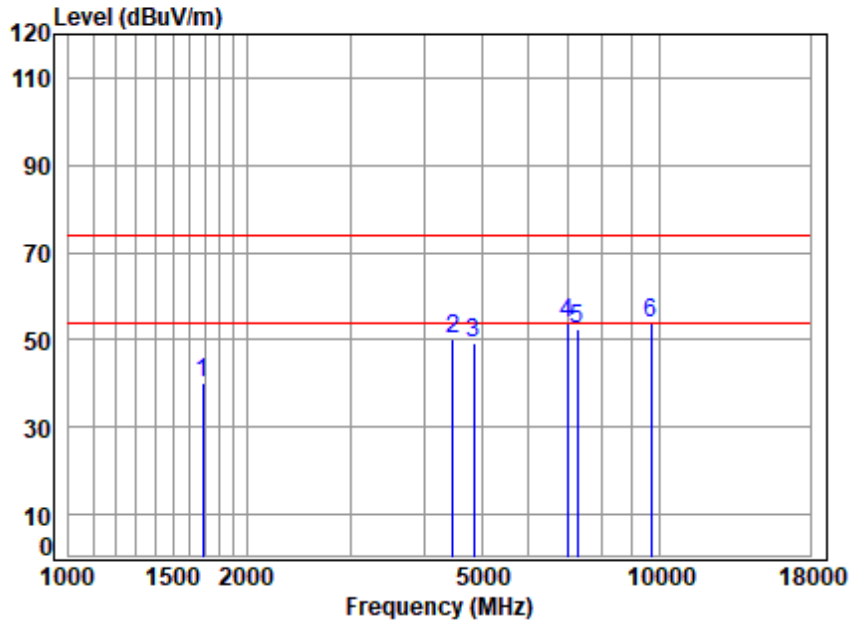
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

Page: 67 of 74

Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2422 TX RSE
 : 2.4G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1687.347	4.17	24.98	52.95	63.85	40.05	74.00	-33.95	peak
2	4469.214	7.47	30.16	52.95	65.73	50.41	74.00	-23.59	peak
3	4844.000	8.05	31.04	53.06	63.08	49.11	74.00	-24.89	peak
4	6995.172	8.19	35.79	53.50	63.51	53.99	74.00	-20.01	peak
5	7266.000	8.32	36.12	53.53	61.68	52.59	74.00	-21.41	peak
6	9688.000	11.35	37.71	53.50	58.10	53.66	74.00	-20.34	peak



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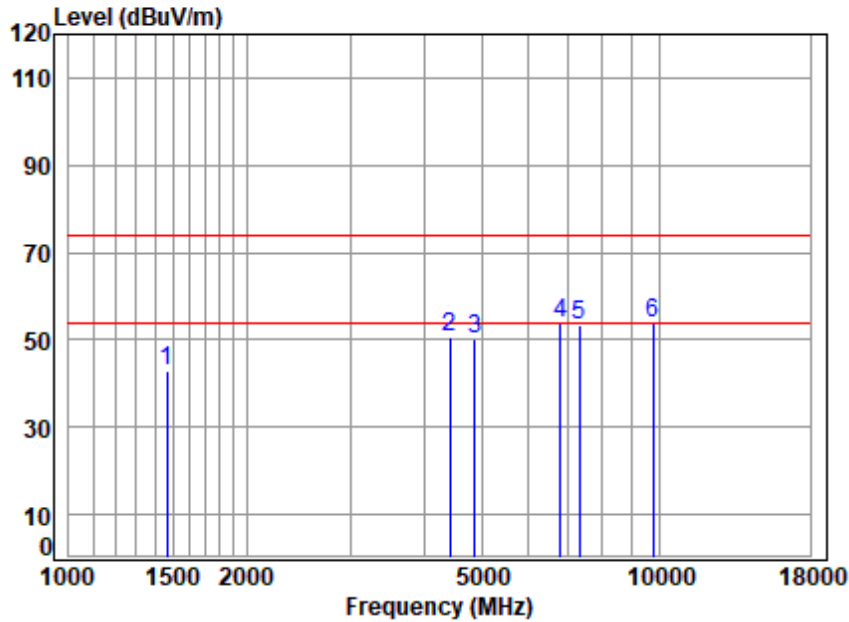
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Report No.: FYCR220900038403

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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11AX40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Factor	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dB	dBuV	dBuV/m	dB	
1	1464.522	3.70	24.40	52.83	67.71	42.98	74.00	-31.02 peak
2	4417.841	7.47	30.09	52.93	66.01	50.64	74.00	-23.36 peak
3	4874.000	8.10	31.11	53.07	64.08	50.22	74.00	-23.78 peak
4	6795.879	7.99	35.32	53.37	63.89	53.83	74.00	-20.17 peak
5	7311.000	8.34	36.18	53.53	62.39	53.38	74.00	-20.62 peak
6	9748.000	11.30	37.84	53.44	58.03	53.73	74.00	-20.27 peak



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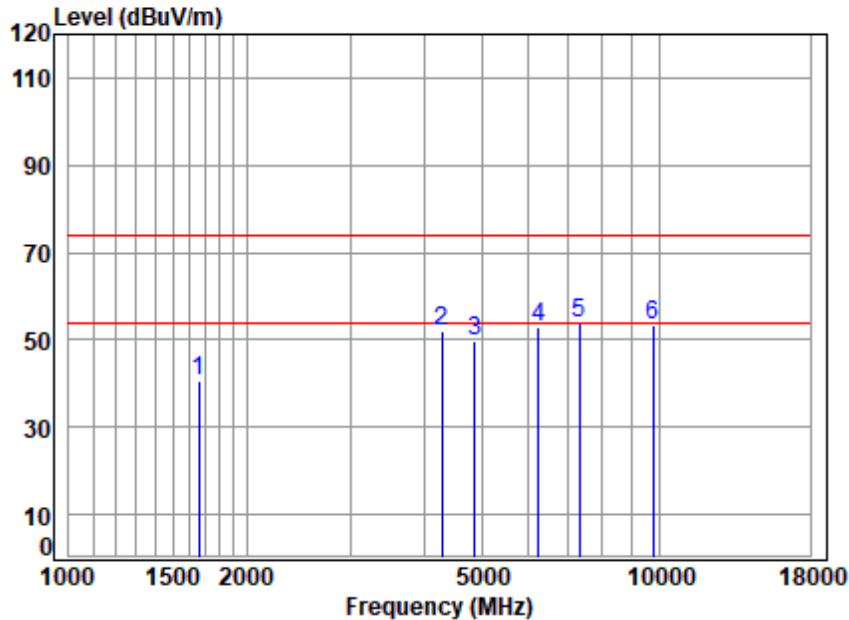
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1658.337	4.11	24.92	52.94	64.65	40.74	74.00	-33.26	peak
2	4279.589	7.48	29.90	52.89	67.51	52.00	74.00	-22.00	peak
3	4874.000	8.10	31.11	53.07	63.61	49.75	74.00	-24.25	peak
4	6249.464	7.67	33.52	52.98	64.88	53.09	74.00	-20.91	peak
5	7311.000	8.34	36.18	53.53	62.83	53.82	74.00	-20.18	peak
6	9748.000	11.30	37.84	53.44	57.53	53.23	74.00	-20.77	peak



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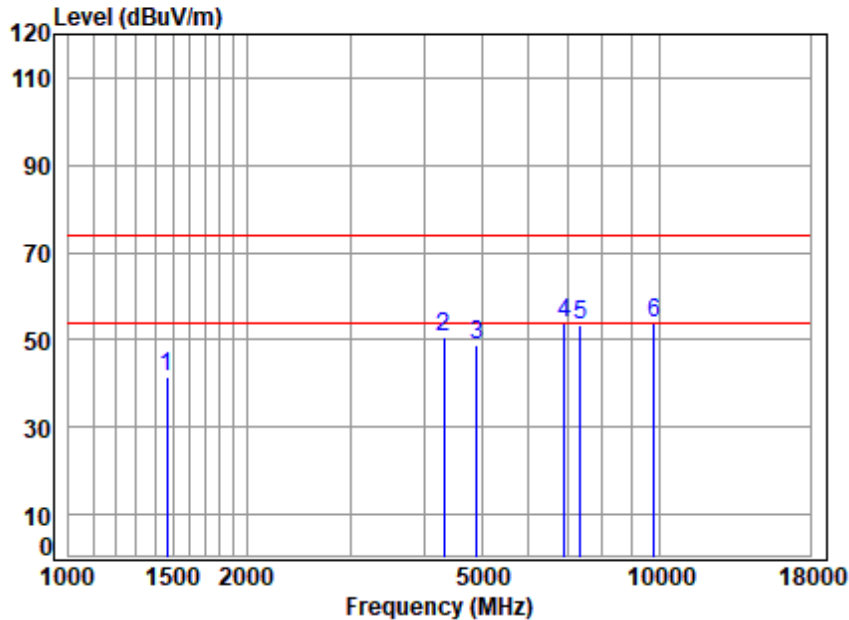
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Report No.: FYCR220900038403

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Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2452 TX RSE
 : 2.4G WIFI 11AX40

		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	1464.522	3.70	24.40	52.83	66.31	41.58	74.00	-32.42 peak
2	4316.859	7.48	29.95	52.90	66.05	50.58	74.00	-23.42 peak
3	4904.000	8.15	31.18	53.07	62.51	48.77	74.00	-25.23 peak
4	6914.763	8.11	35.60	53.44	63.61	53.88	74.00	-20.12 peak
5	7356.000	8.36	36.23	53.54	62.17	53.22	74.00	-20.78 peak
6	9808.000	11.26	37.98	53.38	57.96	53.82	74.00	-20.18 peak



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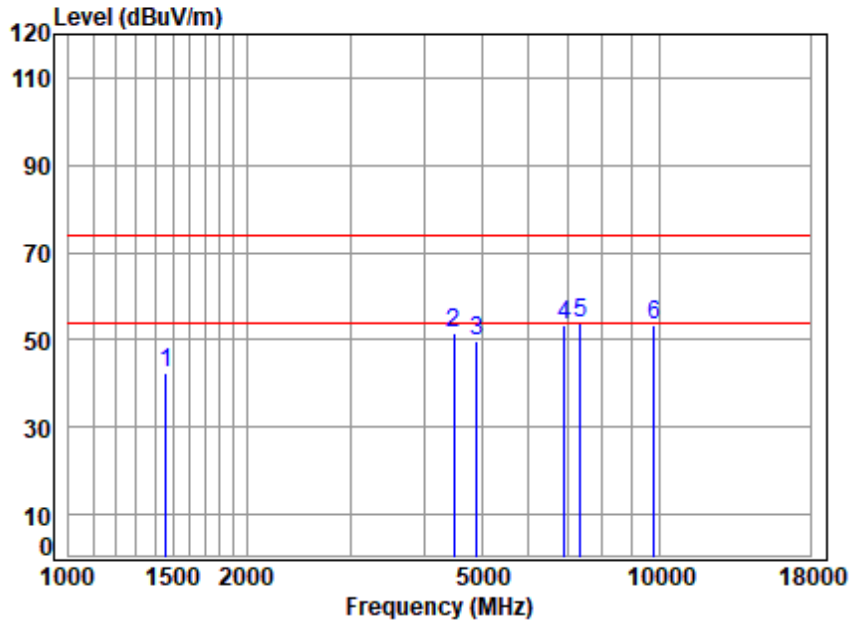
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

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Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2452 TX RSE
 : 2.4G WIFI 11AX40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1460.295	3.70	24.39	52.83	67.05	42.31	74.00	-31.69 peak
2	4482.150	7.47	30.18	52.95	66.66	51.36	74.00	-22.64 peak
3	4904.000	8.15	31.18	53.07	63.52	49.78	74.00	-24.22 peak
4	6914.763	8.11	35.60	53.44	62.99	53.26	74.00	-20.74 peak
5	7356.000	8.36	36.23	53.54	62.92	53.97	74.00	-20.03 peak
6	9808.000	11.26	37.98	53.38	57.32	53.18	74.00	-20.82 peak



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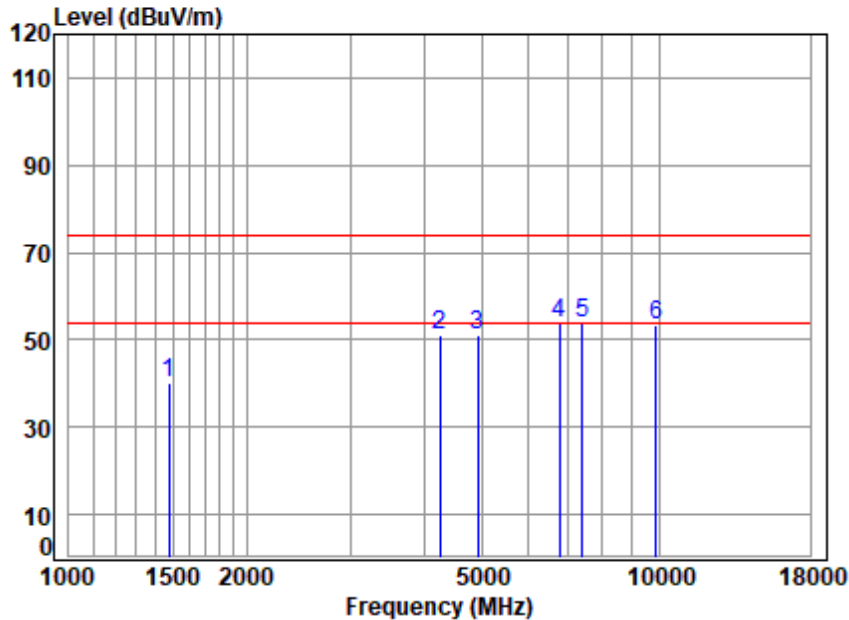
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

Page: 72 of 74

Test Mode: 20; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00384AT
 Mode : 2467 TX RSE
 : 2.4G WIFI 11AX40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1477.276	3.73	24.44	52.84	64.86	40.19	74.00	-33.81	peak
2	4254.921	7.48	29.87	52.88	66.56	51.03	74.00	-22.97	peak
3	4934.000	8.20	31.25	53.08	64.84	51.21	74.00	-22.79	peak
4	6776.265	7.98	35.27	53.35	63.91	53.81	74.00	-20.19	peak
5	7401.000	8.38	36.28	53.54	62.51	53.63	74.00	-20.37	peak
6	9868.000	11.22	38.11	53.33	57.58	53.58	74.00	-20.42	peak



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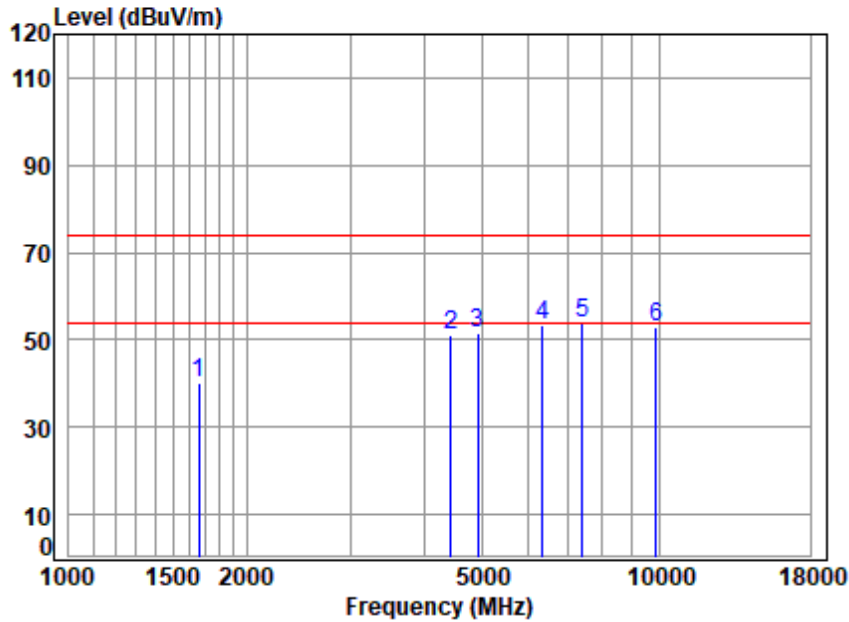
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900038403

Page: 73 of 74

Test Mode: 20; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00384AT
 Mode : 2467 TX RSE
 : 2.4G WIFI 11AX40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	1658.337	4.11	24.92	52.94	63.99	40.08	74.00	-33.92 peak
2	4443.453	7.47	30.12	52.94	66.43	51.08	74.00	-22.92 peak
3	4934.000	8.20	31.25	53.08	65.32	51.69	74.00	-22.31 peak
4	6340.436	7.68	33.92	53.05	64.94	53.49	74.00	-20.51 peak
5	7401.000	8.38	36.28	53.54	62.50	53.62	74.00	-20.38 peak
6	9868.000	11.22	38.11	53.33	57.05	53.05	74.00	-20.95 peak



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8 Test Setup Photo

Refer to Setup Photos for FYCR2209000384AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for FYCR2209000384AT

- End of the Report -



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