

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

Report No.: SZCR230400091204

Page: 1 of 165

# TEST REPORT

Application No.: SZCR2304000912AT

Applicant: KanDao Technology Co., Ltd.

Address of Applicant: 503, Building 1, Dayun Soft Parts Town, 8288 Longgang Avenue, Yuanshan

Street, Longgang District, Shenzhen, China

Manufacturer: KanDao Technology Co., Ltd.

Address of Manufacturer: 503, Building 1, Dayun Soft Parts Town, 8288 Longgang Avenue, Yuanshan

Street, Longgang District, Shenzhen, China

Factory: L Lab Corporation(Hui Zhou) Limited

Address of Factory: West Wing, 2/F, Factory Building A, No.13 of JinDa Road, HuiNan High-

Tech industrial Park Hui'Ao Avenue, HuiZhou City, GuangDong Province,

P.R.China

**Equipment Under Test (EUT):** 

**EUT Name:** Kandao Meeting Ultra

Kandao Meeting Ultra Standard

Model No.: MT1001, MT1002

Please refer to section 2 of this report which indicates which model was

actual tested and which were electrically identical.

Trade Mark: KanDao FCC ID: 2ATPV-KDUL

Standard(s): 47 CFR Part 15, Subpart C 15.247

**Date of Receipt:** 2023-04-03

**Date of Test:** 2023-04-07 to 2023-04-18

**Date of Issue:** 2023-04-24

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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

Report No.: SZCR230400091204

Page: 2 of 165

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2023-04-24		Original				

Authorized for issue by:		
	(eo-li	
	Leo Li/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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

Report No.: SZCR230400091204

Page: 3 of 165

#### 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)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass	
Conducted Peak Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass	
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass	
Power Spectrum  Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass	
Conducted Band Edges Measurement	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass	
Conducted Spurious Emissions	Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	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	

#### **Declaration of EUT Family Grouping:**

Model No.: MT1001, MT1002

Only the model MT1001 was tested fully, and the model MT1002 was performed the Radiated Spurious Emissions Below 1GHz test for discrepancy. Since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model MT1001 has a touch display and model MT1002 doesn't.



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

Report No.: SZCR230400091204

Page: 4 of 165

### **Contents**

		Page
1	l Cover Page	1
2	2 Test Summary	3
	·	
3	3 Contents	4
4	4 General Information	6
	4.1 Details of E.U.T	6
	4.2 Description of Support Units	7
	4.3 Measurement Uncertainty	7
	4.4 Test Location	8
	4.5 Test Facility	
	4.6 Deviation from Standards	
	4.7 Abnormalities from Standard Conditions	8
5	5 Equipment List	9
6	Radio Spectrum Technical Requirement	13
U		
	6.1 Antenna Requirement	
	6.1.1 Test Requirement: 6.1.2 Conclusion	
7	·	
	7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	
	7.1.1 E.U.T. Operation	
	7.1.2 Test Mode Description	
	7.1.3 Test Setup Diagram	
	7.1.4 Measurement Procedure and Data	
	7.2 Conducted Peak Output Power	
	7.2.1 E.U.T. Operation	
	7.2.2 Test Mode Description	
	7.2.4 Measurement Procedure and Data	
	7.3 Minimum 6dB Bandwidth	
	7.3.1 E.U.T. Operation	
	7.3.2 Test Mode Description	
	7.3.3 Test Setup Diagram	
	7.3.4 Measurement Procedure and Data	
	7.4 Power Spectrum Density	
	7.4.1 E.U.T. Operation	
	7.4.2 Test Mode Description	
	7.4.3 Test Setup Diagram	
	7.4.4 Measurement Procedure and Data	
	7.5 Conducted Band Edges Measurement	22
	7.5.1 E.U.T. Operation	22



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

Report No.: SZCR230400091204

Page: 5 of 165

10 App	endix	94
9 EUT	Constructional Details (EUT Photos)	93
	Setup Photo	
7.9.4		
7.9.3		
7.9.2		
7.9.1		
7.9	Radiated Spurious Emissions Above 1GHz	
7.8.4		
7.8.3	1 0	
7.8.2	2 Test Mode Description	61
7.8.1	·	
7.8	Radiated Spurious Emissions Below 1GHz	
7.7.4	·	
7.7.3	·	
7.7.2		
7.7.1		
7.0	Radiated Emissions which fall in the restricted bands	
7.6.4	· ·	
7.6.2 7.6.3		
7.6.1		
7.6	Conducted Spurious Emissions	
7.5.4		
7.5.3		
7.5.2		



8

9

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

Report No.: SZCR230400091204

Page: 6 of 165

### **General Information**

### Details of E.U.T.

Power supply:	DC 15V from adapter input AC 120V/60Hz
	Adapter Model: ADT-65NS-D00
	Input: 100-240V~1.6A 50/60Hz
	Output: 5.0V =3.0A 15.0W or 9.0V =3.0A 27.0W or 12.0V =5.0A 60.0W or 15.0V =4.33 A 64.95W or 20.0V =3.25A 65.0W
	PoE 44~58V =1A(IEEE802.3bt)
	3V DC (1.5Vx2"AAA" Size Batteries) for remote controller
Cable(s):	USB-C cable: 150cm shielded
	Adapter AC cable: 150cm unshielded
	Adapter DC cable: 180cm shielded
Operation Frequency:	802.11b/g/n(HT20)/ax(HEW20): 2412MHz to 2462MHz,
	802.11b: DSSS (CCK, DQPSK, DBPSK),
Modulation Type:	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
	802.11ax: OFDMA(16QAM, 64QAM, 256QAM, 1024QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20)/ax(HEW20): 11
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	ANT 1: 3.65dBi; ANT 2: 3.65dBi

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

Report No.: SZCR230400091204

Page: 7 of 165

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)	$\pm$ 3.0dB (150kHz to 30MHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 4.5dB
Radiated Spurious Emissions Above 1GHz	± 4.8dB

#### Remark:

The Ulab (lab Uncertainty) is less than Ucispr/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.



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

Report No.: SZCR230400091204

Page: 8 of 165

#### 4.4 Test Location

All tests were performed at:

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

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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

#### **Abnormalities from Standard Conditions**

None



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

Report No.: SZCR230400091204

Page: 9 of 165

#### **Equipment List** 5

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-08	2023-07-07	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19	

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30

Minimum 6dB Bandwidt	th				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30



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

Report No.: SZCR230400091204

Page: 10 of 165

Power Spectrum Density							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30		

Conducted Band Edges Measurement							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30		

Conducted Spurious Emissions						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	



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

Report No.: SZCR230400091204

Page: 11 of 165

Radiated Emissions which fall in the restricted bands							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23		
Microwave system amplifier	- ΔΛΙΙΔΝΙ		SEM005-25	2022-09-21	2023-09-20		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07		
Broad-Band Horn Antenna	Schwarzbeck		SEM003-15	2022-08-10	2024-08-09		
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19		

Radiated Spurious Emissions Below 1GHz						
Equipment	Equipment Manufacturer		Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2022-10-20	2023-10-19	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07	



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

Report No.: SZCR230400091204

Page: 12 of 165

Radiated Spurious Emissions Above 1GHz							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23		
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07		

General used equipment							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03		
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03		
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22		



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

Report No.: SZCR230400091204

Page: 13 of 165

#### **Radio Spectrum Technical Requirement** 6

#### 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 is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is ANT 1: 3.65dBi; ANT 2: 3.65dBi

Antenna location: Refer to internal photo.



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

Report No.: SZCR230400091204

Page: 14 of 165

# **Radio Spectrum Matter Test Results**

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

47 CFR Part 15, Subpart C 15.207 Test Requirement Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Fraguency of emission/MUT)	Conducted limit(dBµV)					
Frequency of emission(MHz)	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: 23.2 °C Humidity: 50.5 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

	Title Took mode bookington						
Pre-scan / Final test	Mode Code	Description					
Final test	26	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 @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.					



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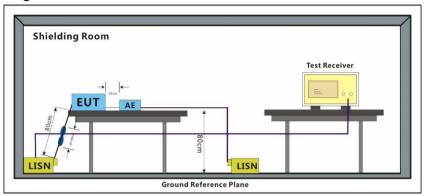


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 15 of 165

#### 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: all models have been tested and only the worst case of MT1001 was recorded in this report.



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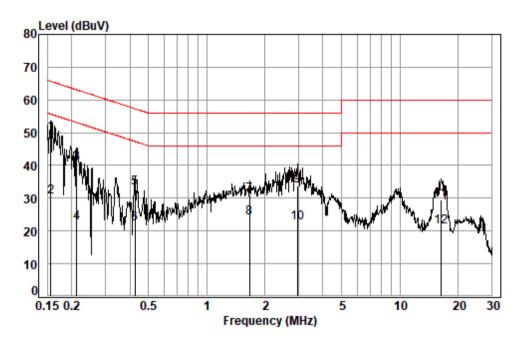


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 16 of 165

Test Mode: 26; Line: Live line



: Shielding Room

Condition: Line Job No. : 00912AT

Test mode: 26

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1557	0.03	9.63	40.10	49.76	65.69	-15.93	QP
2	0.1557	0.03	9.63	20.68	30.34	55.69	-25.35	Average
3	0.2128	0.04	9.62	31.06	40.72	63.10	-22.38	QP
4	0.2128	0.04	9.62	12.88	22.54	53.10	-30.56	Average
5	0.4260	0.05	9.62	23.44	33.11	57.33	-24.22	QP
6	0.4260	0.05	9.62	12.46	22.13	47.33	-25.20	Average
7	1.6713	0.10	9.63	21.25	30.98	56.00	-25.02	QP
8 *	1.6713	0.10	9.63	14.22	23.95	46.00	-22.05	Average
9	2.9463	0.12	9.65	23.88	33.65	56.00	-22.35	QP
10	2.9463	0.12	9.65	12.87	22.64	46.00	-23.36	Average
11	16.3118	0.18	9.87	19.55	29.60	60.00	-30.40	QP
12	16.3118	0.18	9.87	11.36	21.41	50.00	-28.59	Average



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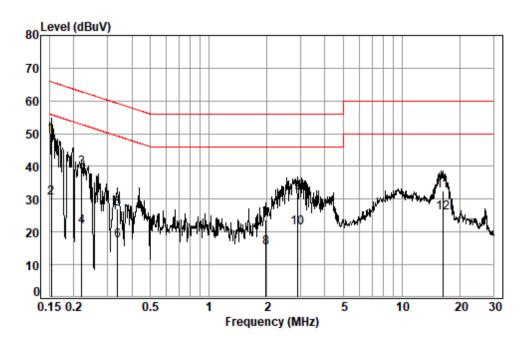


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 17 of 165

Test Mode: 26; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 00912AT

Test mode: 26

			Cable	LISN	Read		Limit	0ver	
		Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	_	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.1532	0.03	9.62	39.85	49.50	65.82	-16.32	QP
2		0.1532	0.03	9.62	20.66	30.31	55.82	-25.51	Average
3		0.2197	0.04	9.62	29.89	39.55	62.83	-23.28	QP
4		0.2197	0.04	9.62	11.90	21.56	52.83	-31.27	Average
5		0.3374	0.05	9.62	17.37	27.04	59.27	-32.23	QP
6		0.3374	0.05	9.62	7.78	17.45	49.27	-31.82	Average
7		1.9801	0.10	9.64	13.97	23.71	56.00	-32.29	QP
8		1.9801	0.10	9.64	5.41	15.15	46.00	-30.85	Average
9		2.8998	0.12	9.65	22.22	31.99	56.00	-24.01	QP
10		2.8998	0.12	9.65	11.43	21.20	46.00	-24.80	Average
11		16.3118	0.18	9.99	22.31	32.48	60.00	-27.52	QP
12	*	16.3118	0.18	9.99	15.75	25.92	50.00	-24.08	Average



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

Report No.: SZCR230400091204

Page: 18 of 165

### 7.2 Conducted Peak Output Power

47 CFR Part 15, Subpart C 15.247(b)(3) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.9.2

#### Limit:

	<del>_</del>		
Frequency range(MHz)	Output power of the intentional radiator(watt)		
	1 for ≥50 hopping channels		
902-928	0.25 for 25≤ hopping channels <50		
	1 for digital modulation		
	1 for ≥75 non-overlapping hopping channels		
2400-2483.5	0.125 for all other frequency hopping systems		
	1 for digital modulation		
5725-5850 1 for frequency hopping systems and digital modulation			

#### 7.2.1 E.U.T. Operation

**Operating Environment:** 

Temperature: 23.2 °C Humidity: 53.5 % RH Atmospheric Pressure: 1015 mbar

#### 7.2.2 Test Mode Description

7.2.2 103010		
Pre-scan / Final test	Mode Code	Description
Final test	26	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 @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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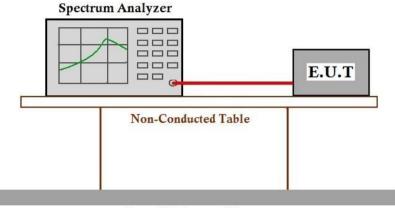


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 19 of 165

#### 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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

Report No.: SZCR230400091204

Page: 20 of 165

### 7.3 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) ANSI C63.10 (2013) Section 11.8.1 Test Method:

Limit:

≥500 kHz

### 7.3.1 E.U.T. Operation

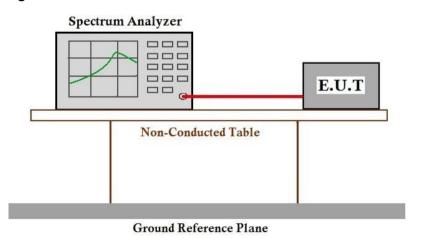
Operating Environment:

23.2 °C Temperature: Humidity: 50.5 % RH Atmospheric Pressure: 1015 mbar

#### 7.3.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	26	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 @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230400091204

Page: 21 of 165

### 7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e) Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

### 7.4.1 E.U.T. Operation

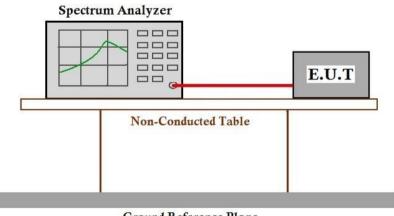
Operating Environment:

23.2 °C Temperature: Humidity: 50.5 % RH Atmospheric Pressure: 1015 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	26	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 @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

#### 7.4.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230400091204

Page: 22 of 165

### 7.5 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15. Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.13.3.2 Test Method:

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Atmospheric Pressure: 1015 mbar Humidity: 50.5 % RH

#### 7.5.2 Test Mode Description

7.5.2 16311		
Pre-scan / Final test	Mode Code	Description
Final test	26	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 @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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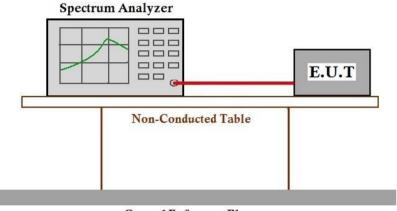


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 23 of 165

#### 7.5.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230400091204

Page: 24 of 165

### 7.6 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15. Subpart C 15.247(d) ANSI C63.10 (2013) Section 11.11 Test Method:

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Atmospheric Pressure: 1015 mbar Humidity: 50.5 % RH

#### 7.6.2 Test Mode Description

7.0.2 10011		
Pre-scan / Final test	Mode Code	Description
Final test	26	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 @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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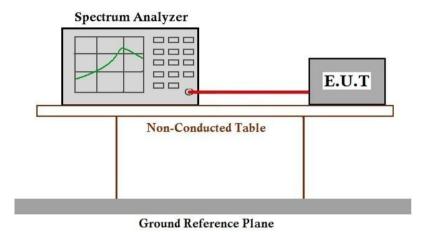


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 25 of 165

#### 7.6.3 Test Setup Diagram



#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Report No.: SZCR230400091204

Page: 26 of 165

#### 7.7 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

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.



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

Report No.: SZCR230400091204

Page: 27 of 165

### 7.7.1 E.U.T. Operation

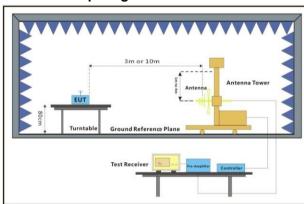
Operating Environment:

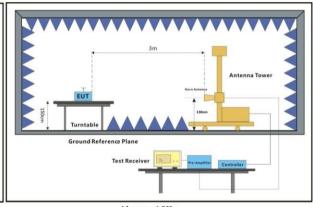
Temperature: 20.8 °C Humidity: 56.3 % RH Atmospheric Pressure: 1015 mbar

#### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	26	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 @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

### 7.7.3 Test Setup Diagram





30MHz-1GHz Above 1GHz



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

Report No.: SZCR230400091204

Page: 28 of 165

#### 7.7.4 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.



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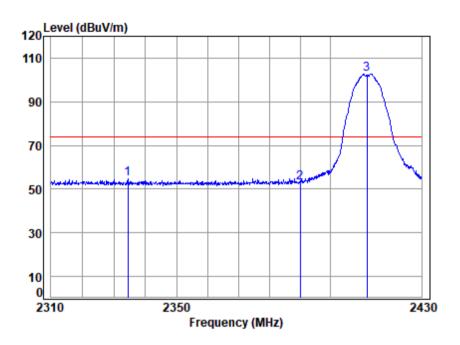


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 29 of 165

Test Mode: 26; Polarity: Horizontal; Modulation: 802.11b; Bandwidth: 20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

: 2412 Band edge Mode : 2.4G WIFI 11B Note

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2334.462	4.19	28.54	35.66	57.80	54.87	74.00	-19.13	peak
2	2390.000	4.25	28.76	35.64	55.73	53.10	74.00	-20.90	peak
3 q	2412.000	4.27	28.87	35.63	105.13	102.64	74.00	28.64	peak



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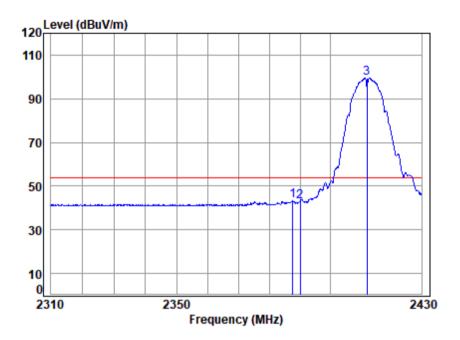


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 30 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

: 2412 Band edge Mode : 2.4G WIFI 11B Note

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.670	4.25	28.75	35.64	45.96	43.32	54.00	-10.68	Average
2	2390.000	4.25	28.76	35.64	45.74	43.11	54.00	-10.89	Average
3 q	2412.000	4.27	28.87	35.63	102.06	99.57	54.00	45.57	Average



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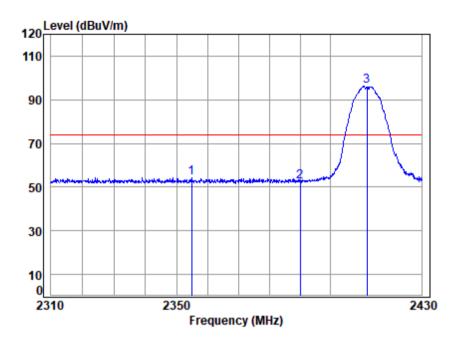


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 31 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2354.885	4.21	28.62	35.65	57.30	54.48	74.00	-19.52	Peak
2	2390.000	4.25	28.76	35.64	55.25	52.62	74.00	-21.38	Peak
3 q	2412.000	4.27	28.87	35.63	98.59	96.10	74.00	22.10	Peak



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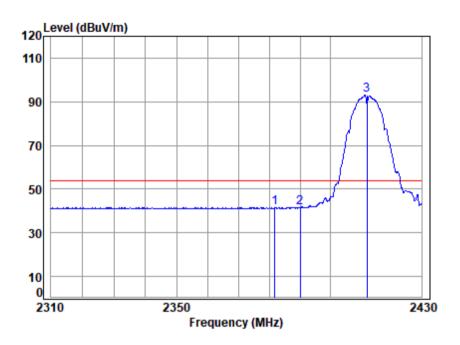


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 32 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

: 2412 Band edge Mode : 2.4G WIFI 11B Note

	Erea			Preamp Factor					
	rreq	L033	ractor	ractor	rever	rever	LINE	LIMIC	Kelliai K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2381.752	4.24	28.73	35.64	44.34	41.67	54.00	-12.33	Average
2	2390.000	4.25	28.76	35.64	44.05	41.42	54.00	-12.58	Average
3 q	2412.000	4.27	28.87	35.63	95.40	92.91	54.00	38.91	Average



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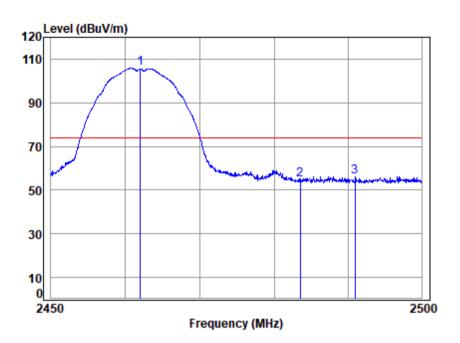


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 33 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

: 2462 Band edge Mode : 2.4G WIFI 11B Note

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
 2462.000	4.32	29.17	35.62	107.92	105.79	74.00	31.79	peak
2483.500	4.34	29.30	35.61	56.79	54.82	74.00	-19.18	peak
2490 976	4 35	29 35	35 61	58 19	56 28	74 99	-17 72	neak



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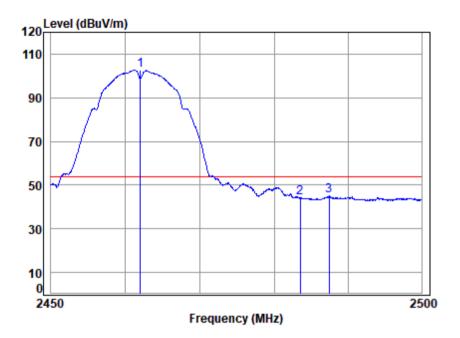


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 34 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2462 Band edge : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	4.32	29.17	35.62	104.88	102.75	54.00	48.75	Average
2	2483.500	4.34	29.30	35.61	46.26	44.29	54.00	-9.71	Average
3	2487.405	4.35	29.32	35.61	46.98	45.04	54.00	-8.96	Average



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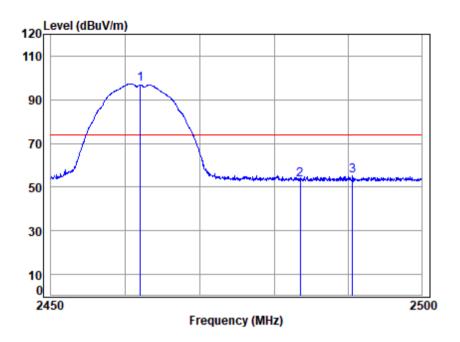


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 35 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2462 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	4.32	29.17	35.62	99.42	97.29	74.00	23.29	Peak
2	2483.500	4.34	29.30	35.61	55.53	53.56	74.00	-20.44	Peak
3	2490.623	4.35	29.34	35.61	57.35	55.43	74.00	-18.57	Peak



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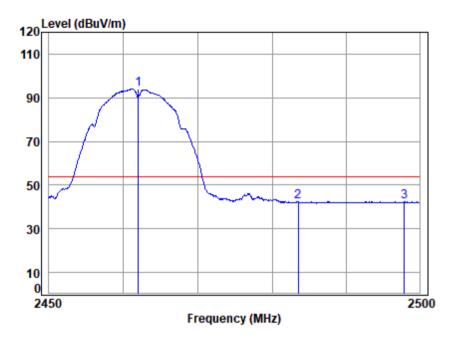


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 36 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2462 Band edge : 2.4G WIFI 11B Note

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2462.000 2 2483.500 3 2497.930	4.34	29.30	35.61	44.33	42.36	54.00	-11.64	Average



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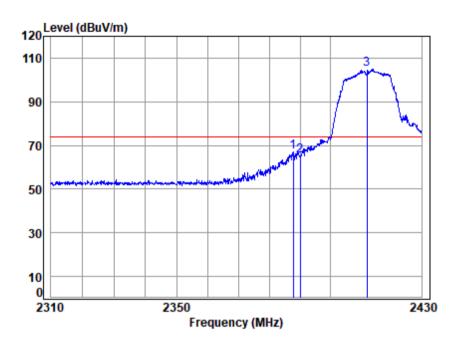


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 37 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.791	4.25	28.75	35.64	69.82	67.18	74.00	-6.82	peak
2	2390.000	4.25	28.76	35.64	67.74	65.11	74.00	-8.89	peak
3 q	2412.000	4.27	28.87	35.63	107.42	104.93	74.00	30.93	peak



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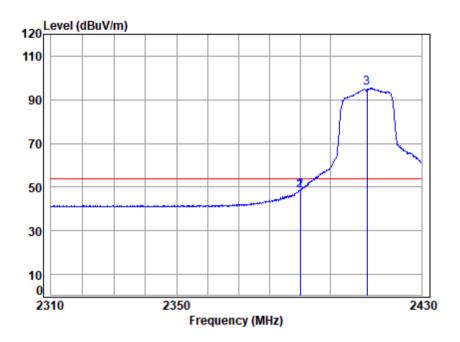


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 38 of 165

Test Mode: 26; Polarity: Horizontal; Modulation: 802.11g; Bandwidth: 20MHz; Channel: Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Freq			Preamp Factor					Remark
				dB				dB	
	2389.968 2390.000								_
3 q	2412.000	4.27	28.87	35.63	97.74	95.25	54.00	41.25	Average



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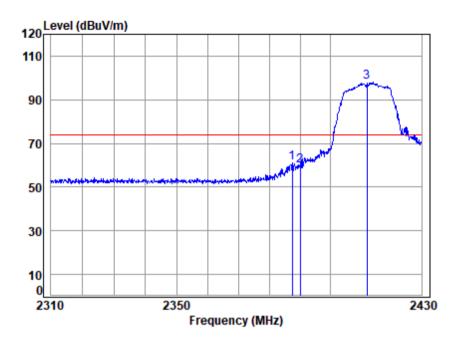


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 39 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2412 Band edge : 2.4G WIFI 11G Note

	_				Read				
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.428	4.25	28.75	35.64	63.67	61.03	74.00	-12.97	Peak
2	2390.000	4.25	28.76	35.64	62.34	59.71	74.00	-14.29	Peak
3 q	2412.000	4.27	28.87	35.63	100.77	98.28	74.00	24.28	Peak



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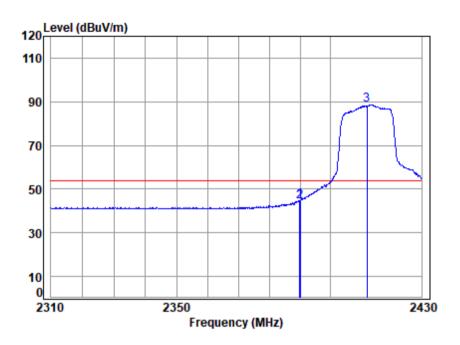


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Report No.: SZCR230400091204

Page: 40 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847								_
2	2390.000	4.25	28.76	35.64	47.08	44.45	54.00	-9.55	Average
3 q	2412.000	4.27	28.87	35.63	91.09	88.60	54.00	34.60	Average



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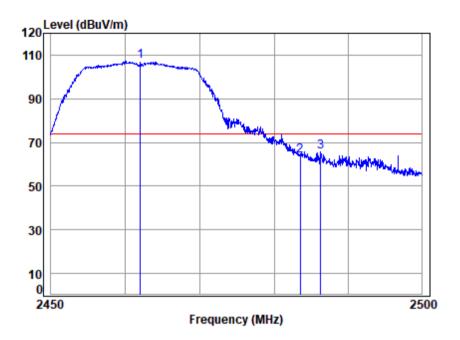


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Report No.: SZCR230400091204

Page: 41 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2462 Band edge : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
. q	2462.000	4.32	29.17	35.62	109.44	107.31	74.00	33.31	peak
2	2483.500	4.34	29.30	35.61	66.08	64.11	74.00	-9.89	peak
}	2486.300	4.35	29.32	35.61	67.69	65.75	74.00	-8.25	peak



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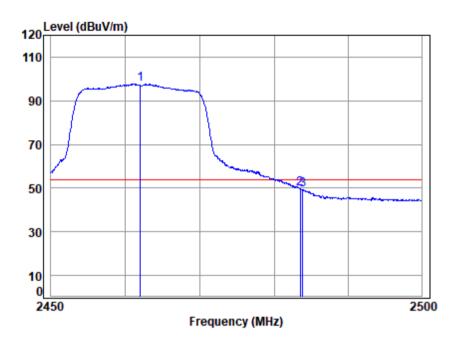


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 42 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2462 Band edge : 2.4G WIFI 11G Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2	2462.000 2483.500								_
_	2483.890								_



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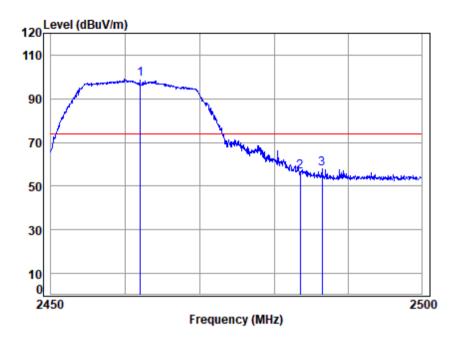


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Report No.: SZCR230400091204

Page: 43 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

: 2462 Band edge Mode : 2.4G WIFI 11G Note

_										
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB		
q	2462.000	4.32	29.17	35.62	101.18	99.05	74.00	25.05	Peak	
	2483.500	4.34	29.30	35.61	58.57	56.60	74.00	-17.40	Peak	
	2486 501	4 35	29 32	35 61	59 82	57 88	74 00	-16 12	Peak	



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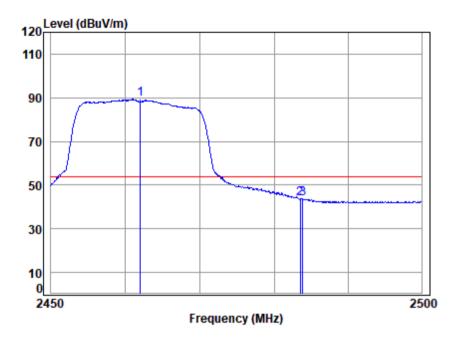


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 44 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2462 Band edge : 2.4G WIFI 11G Note

	Freq			Preamp Factor					Remark	
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	2462.000 2483.500								_	
3	2483.840								_	



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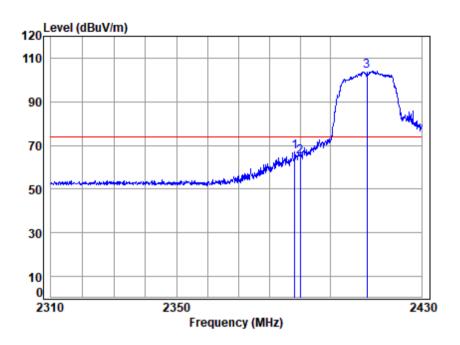


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 45 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

: 2412 Band edge Mode : 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1	2388.274	4.25	28.75	35.64	69.76	67.12	74.00	-6.88	peak
2	2390.000	4.25	28.76	35.64	67.49	64.86	74.00	-9.14	peak
3 (	2412.000	4.27	28.87	35.63	106.37	103.88	74.00	29.88	peak



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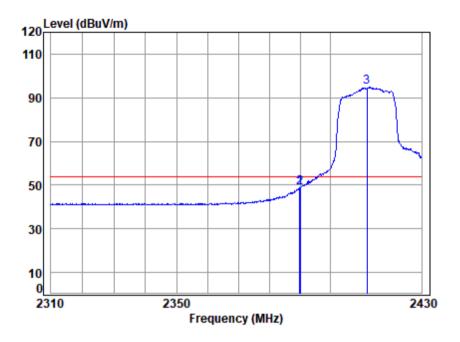


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 46 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

: 2412 Band edge Mode : 2.4G WIFI 11N20 Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2389.847								_
2	2390.000	4.25	28.76	35.64	51.39	48.76	54.00	-5.24	Average
3 q	2412.000	4.27	28.87	35.63	97.19	94.70	54.00	40.70	Average



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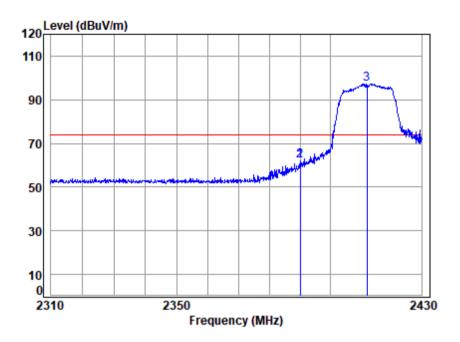


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 47 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

: 2412 Band edge Mode : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.25	28.76	35.64	64.56	61.93	74.00	-12.07	Peak
2	2390.000	4.25	28.76	35.64	64.56	61.93	74.00	-12.07	Peak
3 q	2412.000	4.27	28.87	35.63	99.83	97.34	74.00	23.34	Peak



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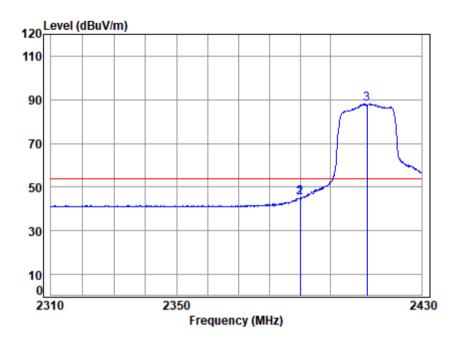


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 48 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

: 2412 Band edge Mode : 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	4.25	28.76	35.64	47.69	45.06	54.00	-8.94	Average
2	2390.000	4.25	28.76	35.64	47.69	45.06	54.00	-8.94	Average
3 q	2412.000	4.27	28.87	35.63	90.69	88.20	54.00	34.20	Average



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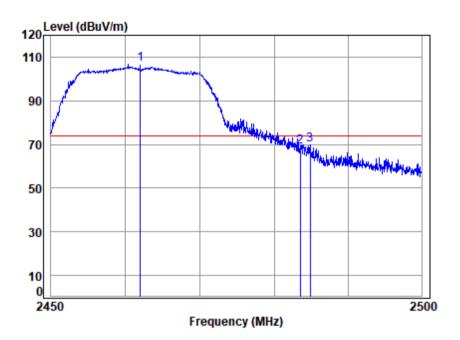


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 49 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

: 2462 Band edge Mode : 2.4G WIFI 11N20 Note

		Freq						Limit Line		Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	2462.000	4.32	29.17	35.62	108.68	106.55	74.00	32.55	peak
2		2483.500	4.34	29.30	35.61	70.72	68.75	74.00	-5.25	peak
3		2484.844	4.35	29.31	35.61	71.89	69.94	74.00	-4.06	peak



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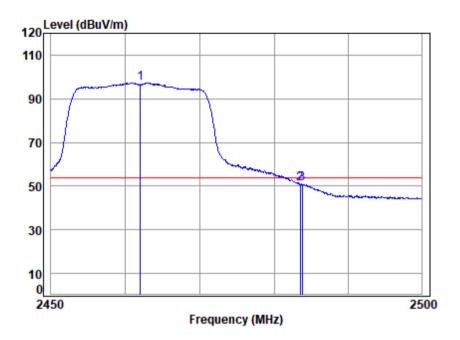


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 50 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

: 2462 Band edge Mode : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2483.500	4.34	29.30	35.61	52.95	50.98	54.00	-3.02	Average Average Average



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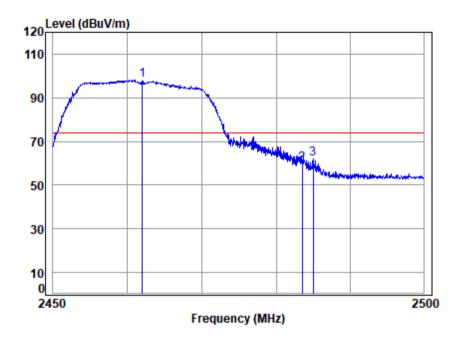


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 51 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

: 2462 Band edge Mode : 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 q	2462.000	4.32	29.17	35.62	100.27	98.14	74.00	24.14	Peak	
_	2483.500									
3	2484 994	4.35	29.31	35.61	64.11	62.16	74.00	-11.84	Peak	



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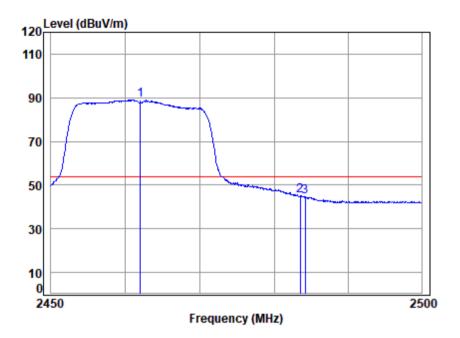


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 52 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

: 2462 Band edge Mode : 2.4G WIFI 11N20 Note

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2462.000 2 2483.500								_
3 2484.191								_



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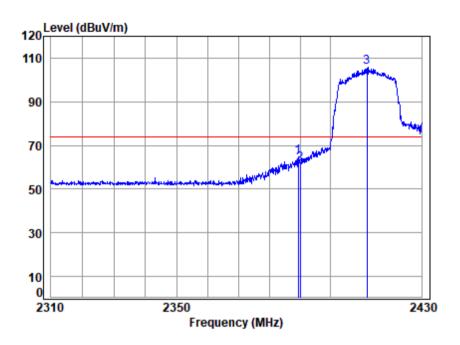


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Report No.: SZCR230400091204

Page: 53 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

: 2412 Band edge Mode : 2.4G WIFI 11AX20 Note

	Freq		Ant Factor						Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.363	4.25	28.76	35.64	67.40	64.77	74.00	-9.23	peak
2	2390.000	4.25	28.76	35.64	64.14	61.51	74.00	-12.49	peak
3 q	2412.000	4.27	28.87	35.63	108.28	105.79	74.00	31.79	peak



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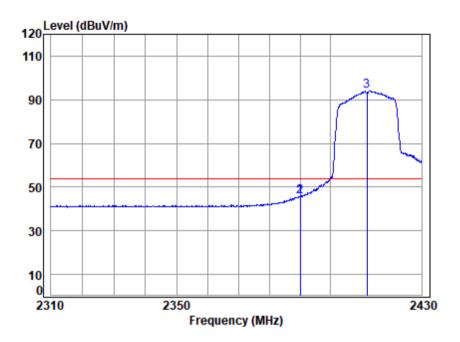


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 54 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

: 2412 Band edge Mode : 2.4G WIFI 11AX20 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2389.968 2390.000								_
3 q	2412.000	4.27	28.87	35.63	96.50	94.01	54.00	40.01	Average



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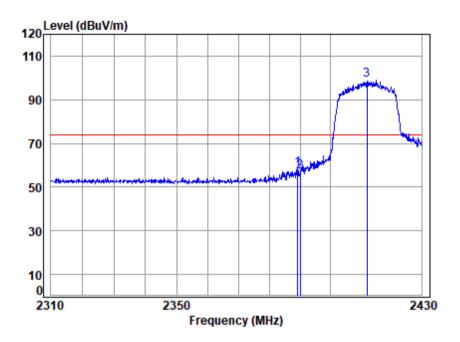


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 55 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

: 2412 Band edge Mode : 2.4G WIFI 11AX20 Note

	Freq				Read Level				Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.242	4.25	28.76	35.64	61.07	58.44	74.00	-15.56	Peak
2	2390.000	4.25	28.76	35.64	59.87	57.24	74.00	-16.76	Peak
3 q	2412.000	4.27	28.87	35.63	101.35	98.86	74.00	24.86	Peak



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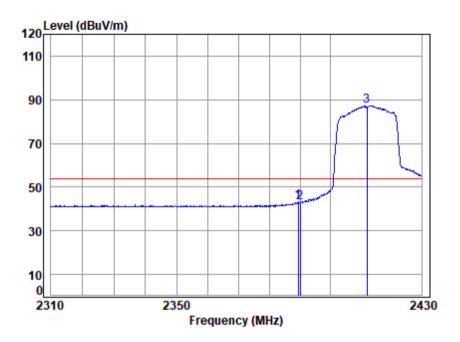


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 56 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

: 2412 Band edge Mode : 2.4G WIFI 11AX20 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.363	4.25	28.76	35.64	45.87	43.24	54.00	-10.76	Average
2	2390.000	4.25	28.76	35.64	45.31	42.68	54.00	-11.32	Average
3 q	2412.000	4.27	28.87	35.63	89.78	87.29	54.00	33.29	Average



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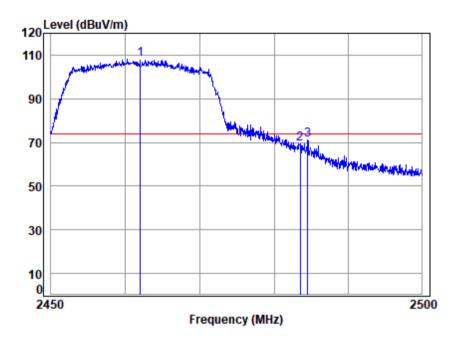


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 57 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

: 2462 Band edge Mode : 2.4G WIFI 11AX20 Note

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	q	2462.000	4.32	29.17	35.62	110.44	108.31	74.00	34.31	peak	
2		2483.500	4.34	29.30	35.61	71.21	69.24	74.00	-4.76	peak	
3		2484.542	4.35	29.31	35.61	72.92	70.97	74.00	-3.03	peak	



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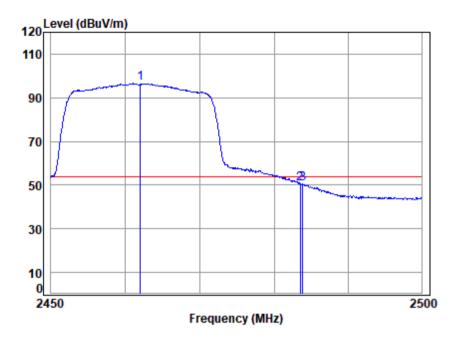


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 58 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

: 2462 Band edge Mode : 2.4G WIFI 11AX20 Note

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	2462.000	4.32	29.17	35.62	98.78	96.65	54.00	42.65	Average
2		2483.500	4.34	29.30	35.61	52.78	50.81	54.00	-3.19	Average
3		2483.890	4.34	29.30	35.61	52.48	50.51	54.00	-3.49	Average



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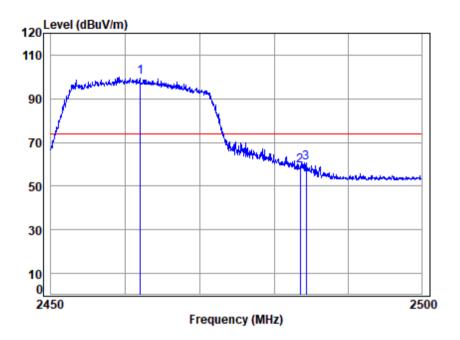


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Report No.: SZCR230400091204

Page: 59 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

: 2462 Band edge Mode : 2.4G WIFI 11AX20 Note

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2462.000								
2	2483.500	4.34	29.30	35.61	61.42	59.45	74.00	-14.55	Peak
3	2484.342	4.34	29.31	35.61	62.50	60.54	74.00	-13.46	Peak



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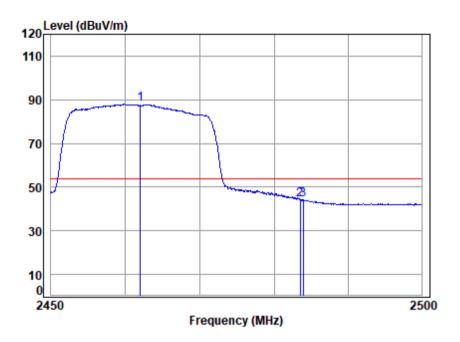


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 60 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2462 Band edge : 2.4G WIFI 11AX20 Note

	Freq						Limit Line		Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2462.000 2483.500								_
3	2483.940	4.34	29.30	35.61	46.27	44.30	54.00	-9.70	Average



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

Report No.: SZCR230400091204

Page: 61 of 165

### 7.8 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

### 7.8.1 E.U.T. Operation

**Operating Environment:** 

Temperature: 23.9 °C Humidity: 51.5 % RH Atmospheric Pressure: 1015 mbar

#### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	26	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 @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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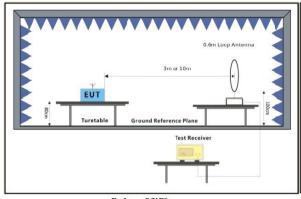


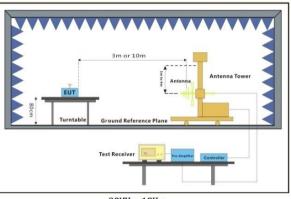
SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

62 of 165 Page:

#### 7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

#### 7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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.



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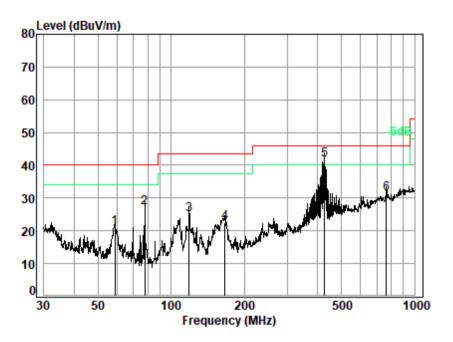


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 63 of 165

Test Mode: 26; Polarity: Vertical Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No. : 00912AT MT1002

Test Mode: 26

	Freq	Ant Factor		Preamp Factor					Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	58.61	11.42	0.84	27.14	35.80	20.92	40.00	-19.08	QP
2	77.87	10.50	1.00	27.07	42.59	27.02	40.00	-12.98	QP
3	118.60	11.86	1.24	26.93	38.83	25.00	43.50	-18.50	QP
4	166.65	13.84	1.51	26.73	33.94	22.56	43.50	-20.94	QP
5 q	426.52	21.31	2.57	26.58	44.47	41.77	46.00	-4.23	QP
6	766 96	26 65	3 58	26 44	27 68	31 /17	16 00	_1/1 53	OP



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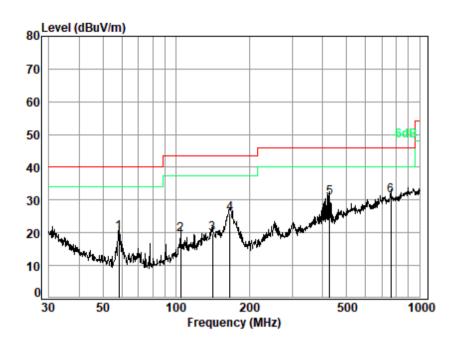


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 64 of 165

Test Mode: 26; Polarity: Horizontal Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No. : 00912AT MT1002

Test Mode: 26

	Freq			Preamp Factor					Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	58.20	11.47	0.84	27.14	34.80	19.97	40.00	-20.03	QP
2	104.17	12.96	1.16	26.98	32.28	19.42	43.50	-24.08	QP
3	140.84	11.97	1.36	26.84	33.36	19.85	43.50	-23.65	QP
4	166.65	13.84	1.51	26.73	37.17	25.79	43.50	-17.71	QP
5	426.52	21.31	2.57	26.58	33.32	30.62	46.00	-15.38	QР
6 a	763 38	26 64	3 58	26 45	27 43	31 20	46 99	-14 80	OP



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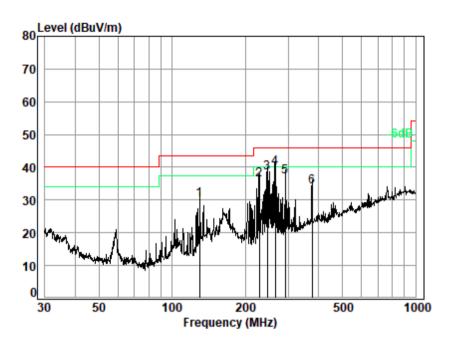


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 65 of 165

Test Mode: 26; Polarity: Horizontal Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 00912AT

Test Mode: 26

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	129.92	11.61	1.30	26.88	44.10	30.13	43.50	-13.37	QP
2	227.69	16.65	1.81	26.49	44.10	36.07	46.00	-9.93	QP
3	245.95	17.93	1.89	26.42	44.84	38.24	46.00	-7.76	QP
4 q	264.75	17.84	1.97	26.34	46.44	39.91	46.00	-6.09	QP
5	292.06	18.22	2.09	26.23	43.08	37.16	46.00	-8.84	QP
6	375.94	21.38	2.39	26.43	36.84	34.18	46.00	-11.82	QP



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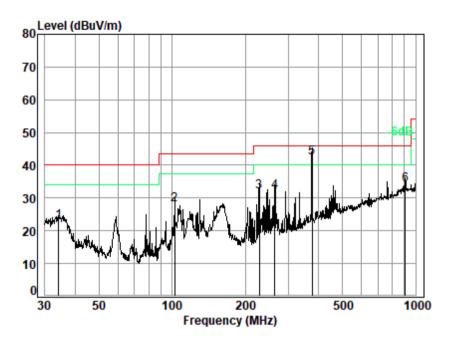


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 66 of 165

Test Mode: 26; Polarity: Vertical Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No. : 00912AT

Test Mode: 26

	Freq			Preamp Factor					Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	34.16	18.77	0.65	27.22	30.54	22.74	40.00	-17.26	QP
2	102.36	12.99	1.15	26.99	40.85	28.00	43.50	-15.50	QР
3	227.69	16.65	1.81	26.49	40.01	31.98	46.00	-14.02	QP
4	263.82	17.85	1.96	26.34	38.59	32.06	46.00	-13.94	QP
5 q	375.94	21.38	2.39	26.43	44.94	42.28	46.00	-3.72	QP
6	906 48	28 50	4 94	25 87	27 48	34 15	46 99	-11 85	OP



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

Report No.: SZCR230400091204

Page: 67 of 165

### 7.9 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

Limit:

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

### 7.9.1 E.U.T. Operation

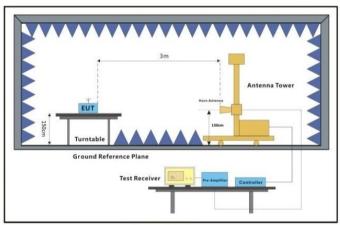
Operating Environment:

20.9 °C Temperature: Humidity: 56.3 % RH Atmospheric Pressure: 1015 mbar

### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	26	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 @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11ax(HEW20), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

#### 7.9.3 Test Setup Diagram



Above 1GHz



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

Report No.: SZCR230400091204

68 of 165 Page:

#### 7.9.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 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.



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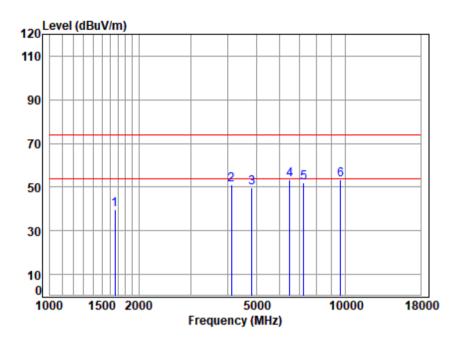


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 69 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
								•		
1		1663.137	3.45	26.73	36.48	45.85	39.55	74.00	-34.45	peak
2		4121.768	6.40	33.04	34.42	46.12	51.14	74.00	-22.86	peak
3		4824.000	7.06	33.90	34.88	43.45	49.53	74.00	-24.47	peak
4		6488.754	8.24	35.48	35.48	44.98	53.22	74.00	-20.78	peak
5		7236.000	8.54	35.80	35.95	43.61	52.00	74.00	-22.00	peak
6	_	9648 000								•



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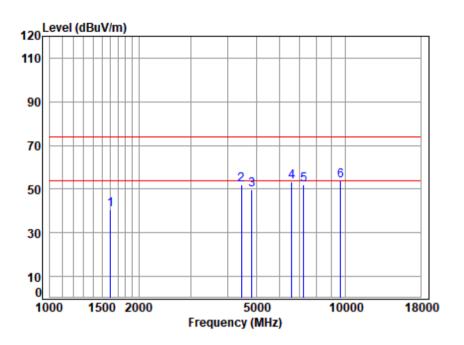


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 70 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

			TO WILL	1 110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1601.804	3.37	26.51	36.63	47.13	40.38	74.00	-33.62	peak	
2		4456.315	6.73	33.50	34.64	46.43	52.02	74.00	-21.98	peak	
3		4824.000	7.06	33.90	34.88	43.86	49.94	74.00	-24.06	peak	
4		6583.209	8.26	35.60	35.56	45.06	53.36	74.00	-20.64	peak	
5		7236.000	8.54	35.80	35.95	43.54	51.93	74.00	-22.07	peak	
6	а	9648 000	10 41	37 10	35 55	41 72	53 68	74 00	-20 32	neak	



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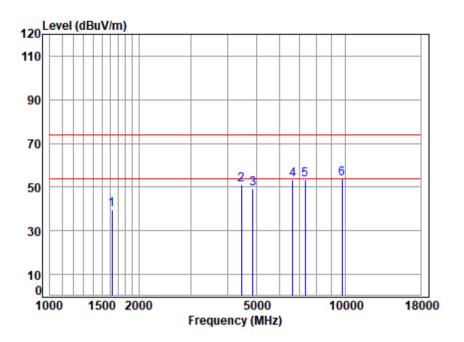


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 71 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		-									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1		1625.121	3.40	26.60	36.57	46.47	39.90	74.00	-34.10	peak	
2		4456.315	6.73	33.50	34.64	45.65	51.24	74.00	-22.76	peak	
3		4874.000	7.10	34.05	34.91	42.97	49.21	74.00	-24.79	peak	
4		6640.542	8.27	35.60	35.61	45.16	53.42	74.00	-20.58	peak	
5										•	
6	_	97/18 000								•	



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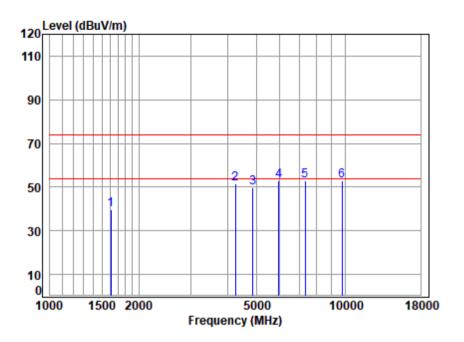


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 72 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

		TO WILL	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611.091	3.38	26.54	36.60	46.40	39.72	74.00	-34.28	peak
2	4242.641	6.53	33.57	34.50	45.95	51.55	74.00	-22.45	peak
3	4874.000	7.10	34.05	34.91	43.57	49.81	74.00	-24.19	peak
4 q	5967.033	8.13	34.93	35.04	45.13	53.15	74.00	-20.85	peak
5	7311.000	8.61	35.90	35.97	44.29	52.83	74.00	-21.17	peak
6	9748 000	10.45	37.20	35.56	40 98	53 07	74 99	-20 93	neak



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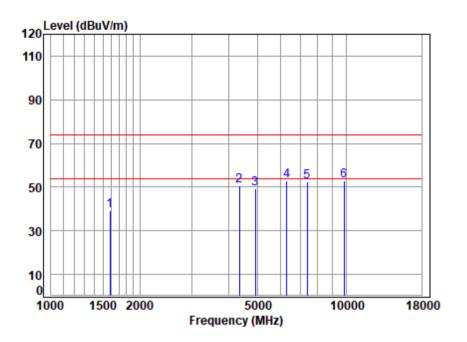


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 73 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			-						
1	1587.975	3.35	26.36	36.66	45.97	39.02	74.00	-34.98	peak
2	4354.454	6.63	33.59	34.58	45.06	50.70	74.00	-23.30	peak
3	4924.000	7.15	34.15	34.94	42.97	49.33	74.00	-24.67	peak
4	6303.890	8.21	35.20	35.32	45.00	53.09	74.00	-20.91	peak
5	7386.000	8.68	35.90	35.98	43.79	52.39	74.00	-21.61	peak
6	q 9848.000	10.49	37.30	35.57	40.93	53.15	74.00	-20.85	peak



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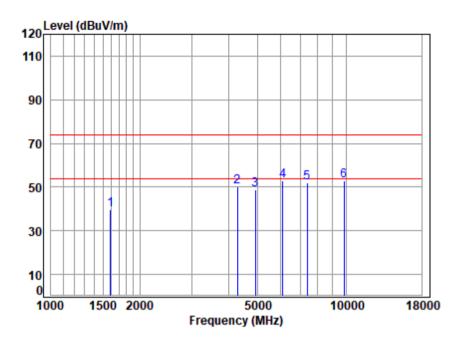


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 74 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

			TO WILL	1 110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1592.571	3.36	26.41	36.65	46.39	39.51	74.00	-34.49	peak
2		4279.589	6.56	33.60	34.53	44.47	50.10	74.00	-23.90	peak
3		4924.000	7.15	34.15	34.94	42.67	49.03	74.00	-24.97	peak
4		6106.616	8.18	35.11	35.14	44.96	53.11	74.00	-20.89	peak
5		7386.000	8.68	35.90	35.98	43.44	52.04	74.00	-21.96	peak
6	а	9848 000	10 49	37 30	35 57	40 91	53 13	74 99	-20 87	neak



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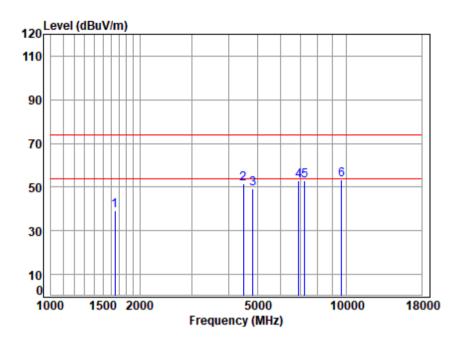


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 75 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2412 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
								•			
1		1648.778	3.43	26.70	36.52	45.57	39.18	74.00	-34.82	peak	
2		4495.125	6.77	33.50	34.67	45.75	51.35	74.00	-22.65	peak	
3		4824.000	7.06	33.90	34.88	43.10	49.18	74.00	-24.82	peak	
4		6894.806								•	
5		7236.000	8.54	35.80	35.95	44.54	52.93	74.00	-21.07	peak	
6	_	9648 999								•	



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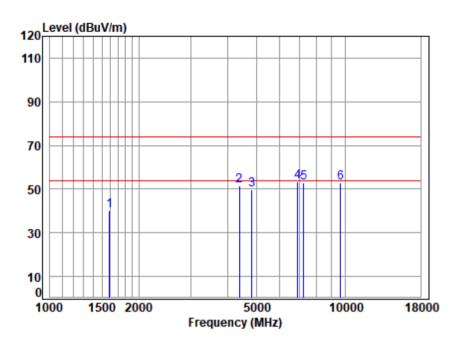


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 76 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2412 TX RSE

· 2 /G WTET 11G

		. 2.4	+G MIL	1 110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
											_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1592.571	3.36	26.41	36.65	47.19	40.31	74.00	-33.69	peak	
2		4392.376	6.67	33.52	34.60	45.83	51.42	74.00	-22.58	peak	
3		4824.000	7.06	33.90	34.88	43.73	49.81	74.00	-24.19	peak	
4	q	6894.806	8.30	35.60	35.82	45.24	53.32	74.00	-20.68	peak	
5		7236.000	8.54	35.80	35.95	44.44	52.83	74.00	-21.17	peak	
6		9648.000	10.41	37.10	35.55	41.10	53.06	74.00	-20.94	peak	



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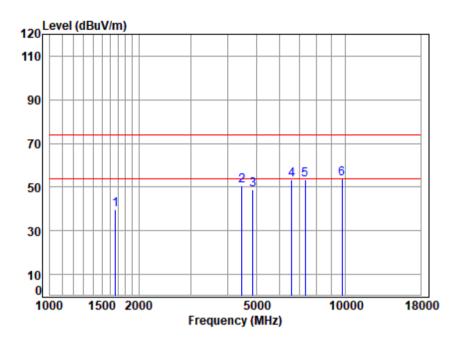


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 77 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2437 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		-									
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
				•			•	•			
1		1667.951	3.45	26.74	36.47	46.11	39.83	74.00	-34.17	peak	
2		4469.214	6.74	33.50	34.65	45.16	50.75	74.00	-23.25	peak	
3		4874.000	7.10	34.05	34.91	42.50	48.74	74.00	-25.26	peak	
4		6583.209	8.26	35.60	35.56	45.01	53.31	74.00	-20.69	peak	
5		7311.000								•	
6		9748 000								•	



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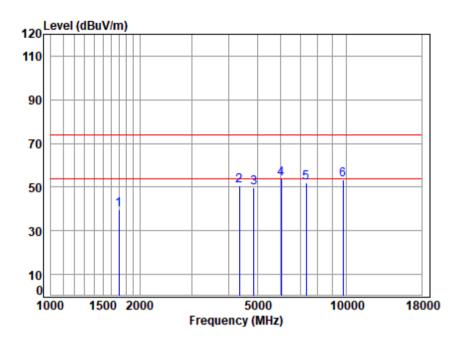


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 78 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2437 TX RSE

: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1702.042	3.49	26.80	36.40	45.90	39.79	74.00	-34.21	peak	
2	4354.454	6.63	33.59	34.58	44.96	50.60	74.00	-23.40	peak	
3	4874.000	7.10	34.05	34.91	43.35	49.59	74.00	-24.41	peak	
4	q 6018.999	8.16	35.00	35.06	45.84	53.94	74.00	-20.06	peak	
5	7311.000	8.61	35.90	35.97	43.69	52.23	74.00	-21.77	peak	
6	9748 000	10 45	37 20	35 56	/11 33	53 //2	7/ 00	-20 58	neak	



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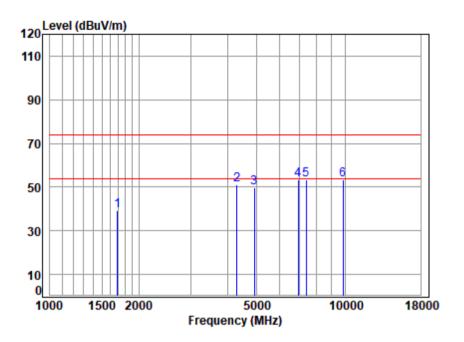


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 79 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1692.231	3.48	26.78	36.42	45.40	39.24	74.00	-34.76	peak
2		4304.400	6.59	33.60	34.54	45.65	51.30	74.00	-22.70	peak
3		4924.000	7.15	34.15	34.94	43.18	49.54	74.00	-24.46	peak
4	q	6934.778	8.31	35.67	35.86	45.30	53.42	74.00	-20.58	peak
5		7386.000	8.68	35.90	35.98	44.62	53.22	74.00	-20.78	peak
6		98/18 000	10 /19	37 30	35 57	<b>/11 02</b>	53 2/	7/ 00	-20 76	neak



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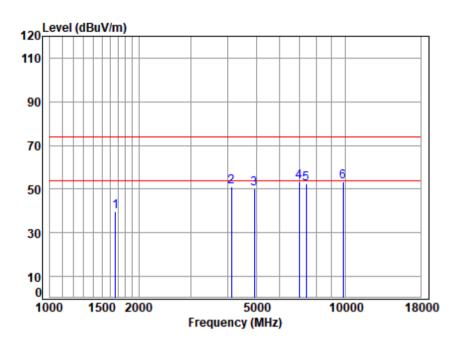


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Report No.: SZCR230400091204

Page: 80 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2462 TX RSE

: 2.4G WIFI 11G

			TO WILL	1 110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1667.951	3.45	26.74	36.47	45.87	39.59	74.00	-34.41	peak
2		4121.768	6.40	33.04	34.42	46.14	51.16	74.00	-22.84	peak
3		4924.000	7.15	34.15	34.94	43.62	49.98	74.00	-24.02	peak
4		6995.172	8.32	35.79	35.91	45.02	53.22	74.00	-20.78	peak
5		7386.000	8.68	35.90	35.98	44.03	52.63	74.00	-21.37	peak
6	а	9848 000	10 49	37 30	35 57	41 34	53 56	74 99	-20 44	neak



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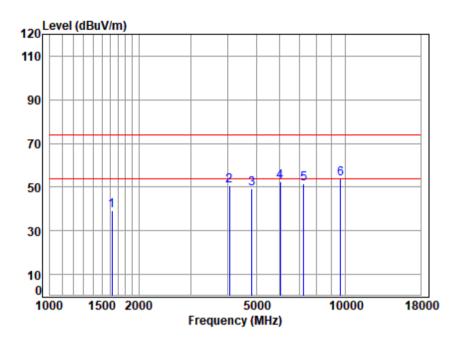


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 81 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

					_						
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		-									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
				•			•	•			
1		1625.121	3.40	26.60	36.57	46.00	39.43	74.00	-34.57	peak	
2		4050.904	6.33	32.90	34.37	45.93	50.79	74.00	-23.21	peak	
3		4824.000	7.06	33.90	34.88	43.11	49.19	74.00	-24.81	peak	
4		6018.999								•	
5		7236.000	8.54	35.80	35.95	43.37	51.76	74.00	-22.24	peak	
6	а	9648 000								•	



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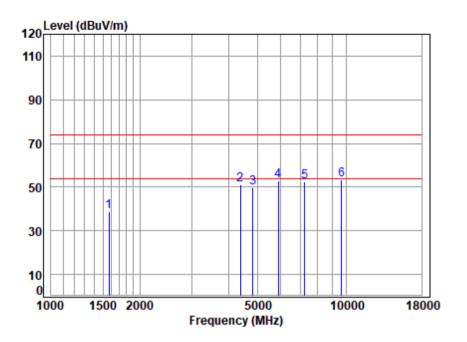


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 82 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	3.34	26.19	36.69	45.89	38.73	74.00	-35.27	peak
2	4379.699	6.66	33.54	34.59	45.53	51.14	74.00	-22.86	peak
3	4824.000	7.06	33.90	34.88	43.76	49.84	74.00	-24.16	peak
4	5898.442	8.07	34.80	35.03	45.24	53.08	74.00	-20.92	peak
5	7236.000	8.54	35.80	35.95	44.24	52.63	74.00	-21.37	peak
6 q	9648.000	10.41	37.10	35.55	41.49	53.45	74.00	-20.55	peak



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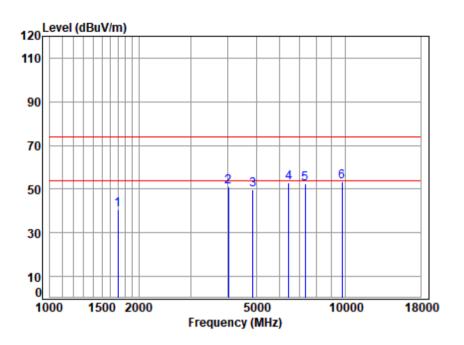


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 83 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

		. 2.	TO WILL	1 11112							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1702.042	3.49	26.80	36.40	46.55	40.44	74.00	-33.56	peak	
2		4027.554	6.31	32.81	34.35	46.37	51.14	74.00	-22.86	peak	
3		4874.000	7.10	34.05	34.91	43.44	49.68	74.00	-24.32	peak	
4		6432.732	8.23	35.37	35.43	44.87	53.04	74.00	-20.96	peak	
5		7311.000	8.61	35.90	35.97	44.11	52.65	74.00	-21.35	peak	
6	a	9748 000	10 45	37 20	35 56	41 21	53 30	74 00	-20 70	neak	



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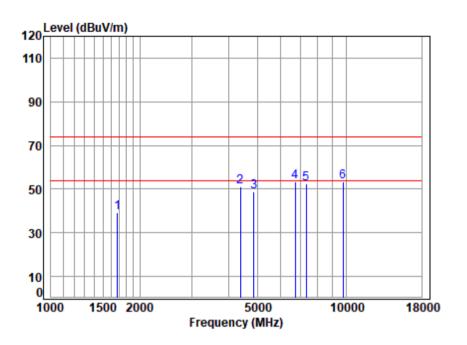


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 84 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	3.46	26.76	36.45	45.61	39.38	74.00	-34.62	peak
2	4392.376	6.67	33.52	34.60	45.57	51.16	74.00	-22.84	peak
3	4874.000	7.10	34.05	34.91	42.53	48.77	74.00	-25.23	peak
4	q 6717.762	8.28	35.56	35.68	45.35	53.51	74.00	-20.49	peak
5	7311.000	8.61	35.90	35.97	43.89	52.43	74.00	-21.57	peak
6	9748.000	10.45	37.20	35.56	41.26	53.35	74.00	-20.65	peak



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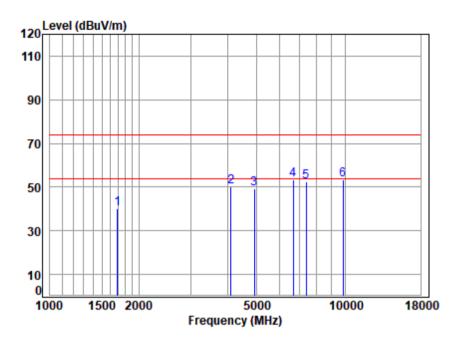


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 85 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		-								
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
				•			•	•		
1		1692.231	3.48	26.78	36.42	46.20	40.04	74.00	-33.96	peak
2		4109.872	6.39	33.02	34.41	45.01	50.01	74.00	-23.99	peak
3		4924.000	7.15	34.15	34.94	42.93	49.29	74.00	-24.71	peak
4	q	6679.040	8.27	35.60	35.65	45.25	53.47	74.00	-20.53	peak
5	Ī	7386.000	8.68	35.90	35.98	43.95	52.55	74.00	-21.45	peak
		9848 000			35 57					•



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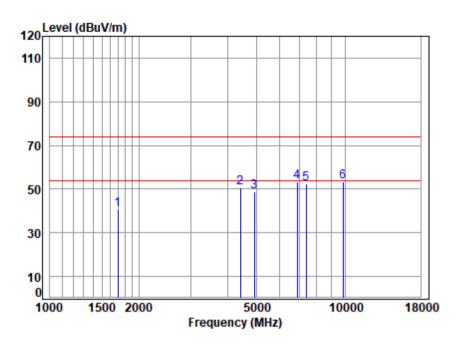


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 86 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

	Freq			Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	3.49	26.79	36.41	46.81	40.68	74.00	-33.32	peak
2	4417.841	6.69	33.50	34.62	45.02	50.59	74.00	-23.41	peak
3	4924.000	7.15	34.15	34.94	42.67	49.03	74.00	-24.97	peak
4 q	6874.906	8.30	35.60	35.81	45.45	53.54	74.00	-20.46	peak
5	7386.000	8.68	35.90	35.98	43.87	52.47	74.00	-21.53	peak
6	9848.000	10.49	37.30	35.57	41.21	53.43	74.00	-20.57	peak



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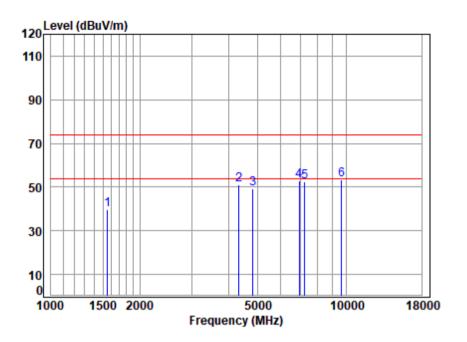


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 87 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2412 TX RSE

: 2.4G WIFI 11AX20

			TO WILL	T TT///	20						
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1		1556.169	3.31	25.98	36.73	46.98	39.54	74.00	-34.46	peak	
2		4329.354	6.61	33.60	34.56	45.47	51.12	74.00	-22.88	peak	
3		4824.000	7.06	33.90	34.88	43.28	49.36	74.00	-24.64	peak	
4		6934.778	8.31	35.67	35.86	44.79	52.91	74.00	-21.09	peak	
5		7236.000	8.54	35.80	35.95	44.07	52.46	74.00	-21.54	peak	
6	а	9648 000	10 41	37 10	35 55	41 22	53 18	74 00	-20 82	neak	



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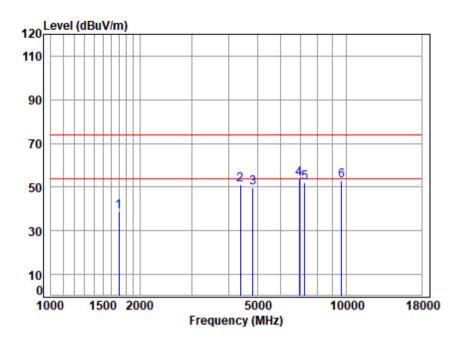


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 88 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2412 TX RSE

: 2.4G WIFI 11AX20

	Freq	Cable Loss		Preamp Factor			Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	3.49	26.80	36.40	44.90	38.79	74.00	-35.21	peak
2	4379.699	6.66	33.54	34.59	45.39	51.00	74.00	-23.00	peak
3	4824.000	7.06	33.90	34.88	43.54	49.62	74.00	-24.38	peak
4 q	6934.778	8.31	35.67	35.86	45.82	53.94	74.00	-20.06	peak
5	7236.000	8.54	35.80	35.95	43.71	52.10	74.00	-21.90	peak
6	9648.000	10.41	37.10	35.55	41.16	53.12	74.00	-20.88	peak



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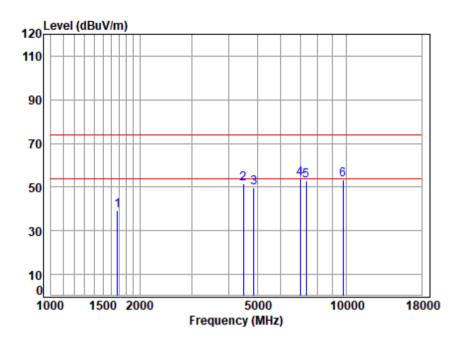


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Report No.: SZCR230400091204

Page: 89 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		•
								-			
1		1677.621	3.46	26.76	36.45	45.28	39.05	74.00	-34.95	peak	
2		4495.125	6.77	33.50	34.67	46.11	51.71	74.00	-22.29	peak	
3		4874.000	7.10	34.05	34.91	43.33	49.57	74.00	-24.43	peak	
4	q	6974.982	8.32	35.75	35.89	45.59	53.77	74.00	-20.23	peak	
5	Ō	7311.000	8.61	35.90	35.97	44.25	52.79	74.00	-21.21	peak	
		9748 000								•	



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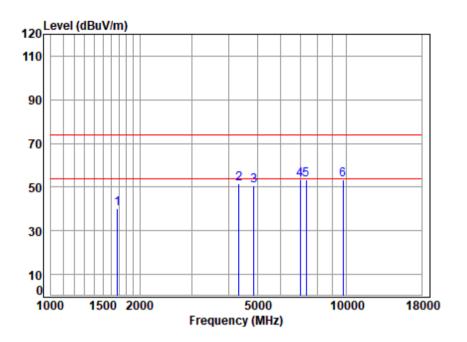


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 90 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX20

		Freq			Preamp Factor		Level			Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	16	577.621	3.46	26.76	36.45	46.28	40.05	74.00	-33.95	peak
2	43	341.886	6.62	33.60	34.57	45.89	51.54	74.00	-22.46	peak
3	48	374.000	7.10	34.05	34.91	44.25	50.49	74.00	-23.51	peak
4	69	95.172	8.32	35.79	35.91	45.11	53.31	74.00	-20.69	peak
5	73	311.000	8.61	35.90	35.97	44.76	53.30	74.00	-20.70	peak
6	q 97	748.000	10.45	37.20	35.56	41.49	53.58	74.00	-20.42	peak



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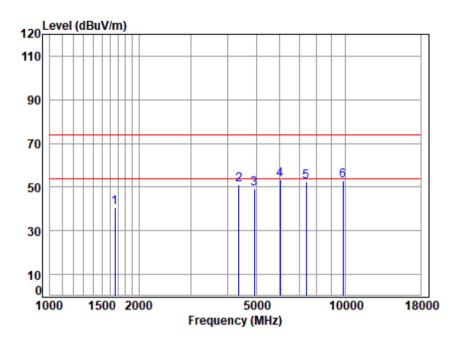


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Report No.: SZCR230400091204

Page: 91 of 165

Test Mode: 26; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00912AT

Mode : 2462 TX RSE

: 2.4G WIFI 11AX20

					Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1663.137	3.45	26.73	36.48	46.82	40.52	74.00	-33.48	peak
2		4367.058	6.65	33.57	34.59	45.61	51.24	74.00	-22.76	peak
3		4924.000	7.15	34.15	34.94	43.14	49.50	74.00	-24.50	peak
4	q	6036.421	8.17	35.00	35.07	45.41	53.51	74.00	-20.49	peak
5		7386.000	8.68	35.90	35.98	43.67	52.27	74.00	-21.73	peak
6		9848.000	10.49	37.30	35.57	40.93	53.15	74.00	-20.85	peak



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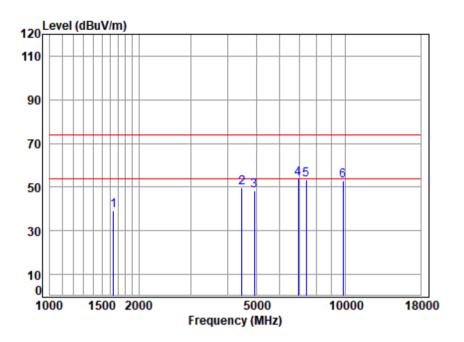


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 92 of 165

Test Mode: 26; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 00912AT

Mode : 2462 TX RSE

: 2.4G WIFI 11AX20

		. 2	+Q MIL	I IIAV	20						
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1639.274	3.42	26.66	36.54	45.52	39.06	74.00	-34.94	peak	
2		4469.214	6.74	33.50	34.65	44.29	49.88	74.00	-24.12	peak	
3		4924.000	7.15	34.15	34.94	42.21	48.57	74.00	-25.43	peak	
4	q	6934.778	8.31	35.67	35.86	45.51	53.63	74.00	-20.37	peak	
5		7386.000	8.68	35.90	35.98	44.97	53.57	74.00	-20.43	peak	
6		9848.000	10.49	37.30	35.57	40.86	53.08	74.00	-20.92	peak	



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

Report No.: SZCR230400091204

Page: 93 of 165

#### 8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2304000912AT

#### **EUT Constructional Details (EUT Photos)** 9

Refer to External and Internal Photos for SZCR2304000912AT



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Report No.: SZCR230400091204

Page: 94 of 165

# 10 Appendix

1. Duty Cycle

1.1 Ant1

#### 1.1.1 Test Result

						Ant1			
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		2412	/	/	8.416	8.510	98.90	0.05	0.00
802.11b	SISO	2437	/	/	8.417	8.510	98.91	0.05	0.04
		2462	/	/	8.416	8.510	98.90	0.05	0.04
	SISO	2412	/	/	1.398	1.496	93.45	0.29	0.03
802.11g		2437	/	/	1.396	1.495	93.38	0.30	0.07
		2462	/	/	1.397	1.496	93.38	0.30	0.03
000.44		2412	/	/	1.309	1.408	92.97	0.32	0.00
802.11n (HT20)	MIMO	2437	/	/	1.309	1.407	93.03	0.31	0.03
(11120)		2462	/	/	1.309	1.408	92.97	0.32	0.06
		2412	RU242	Left	1.021	1.120	91.16	0.40	0.06
802.11ax (HEW20)	MIMO	2437	RU242	Left	1.022	1.120	91.25	0.40	0.00
(112 4420)		2462	RU242	Left	1.021	1.120	91.16	0.40	0.03



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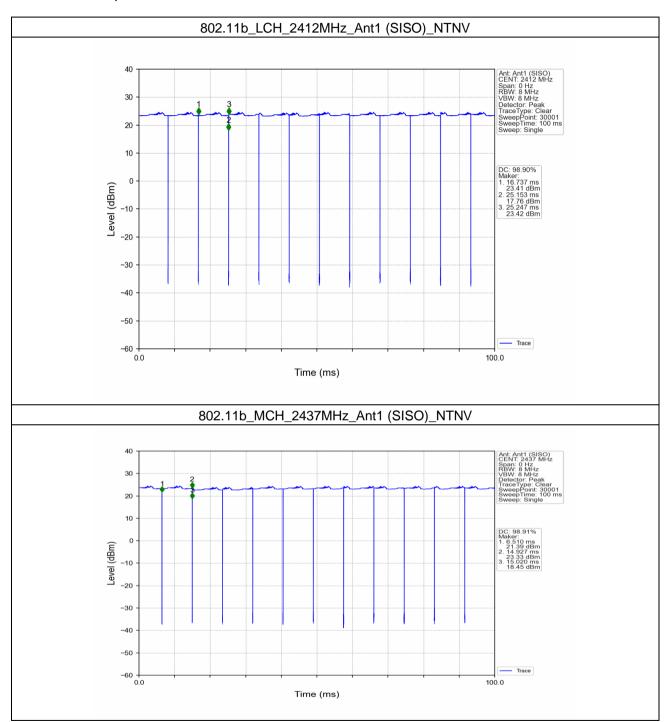


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### 1.1.2 Test Graph





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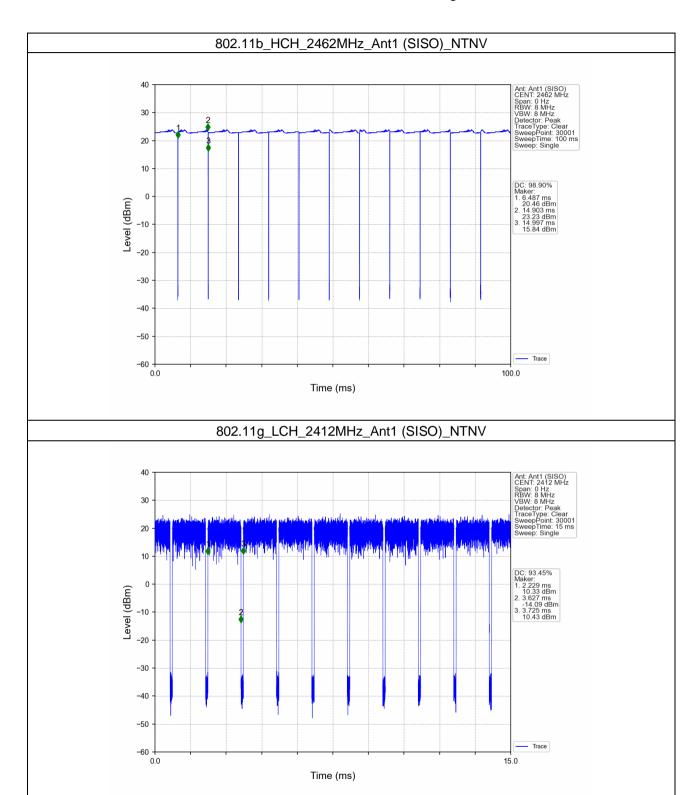
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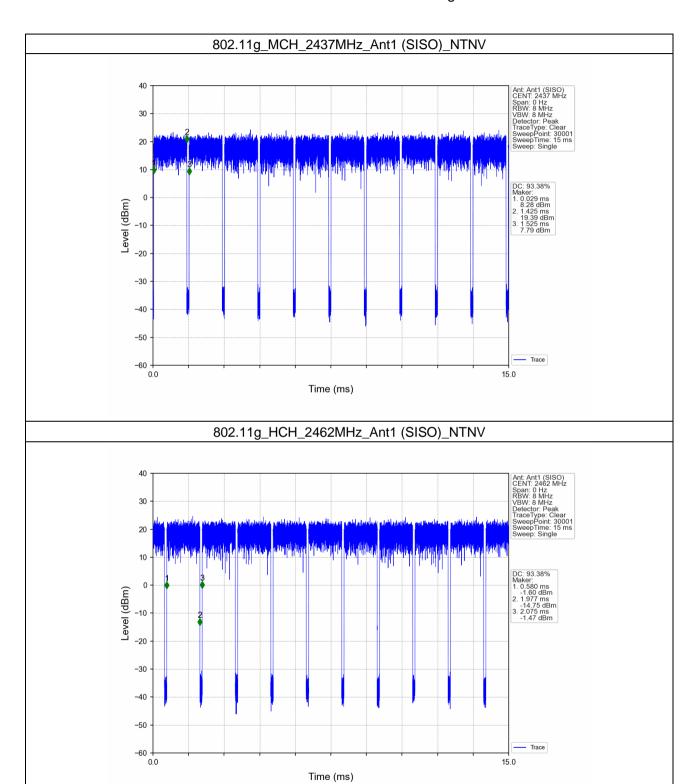
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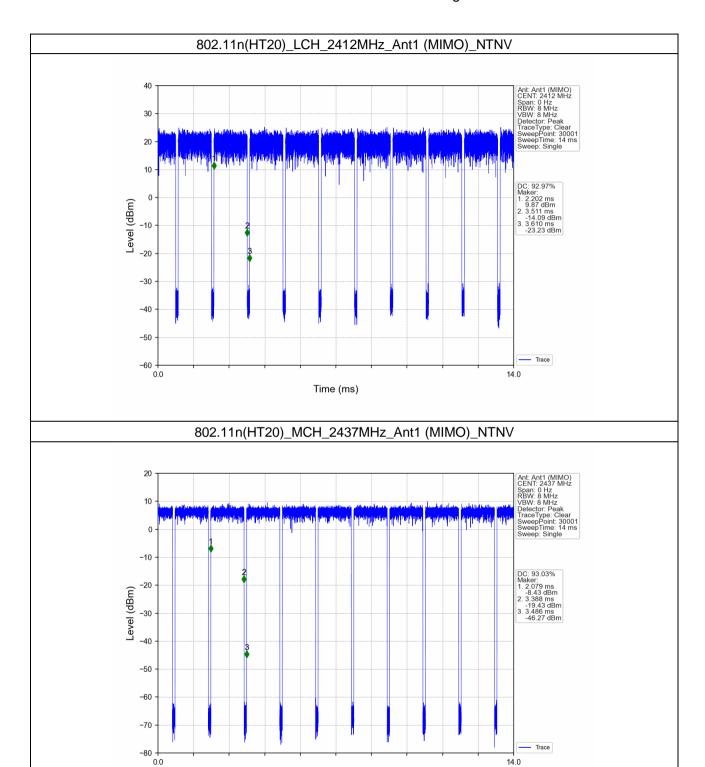
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Time (ms)

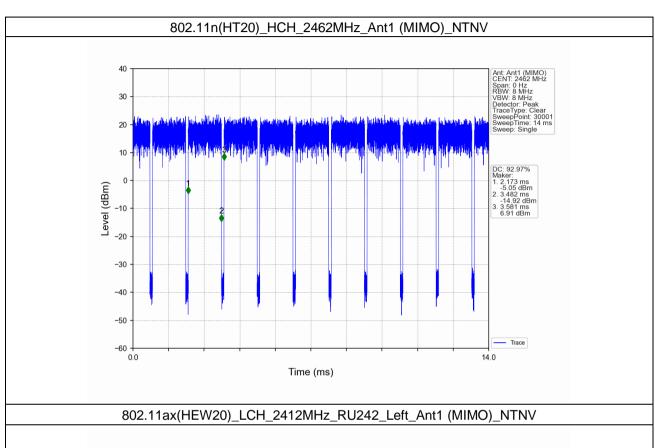
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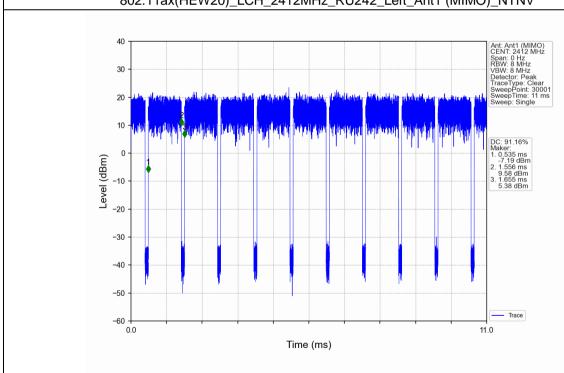


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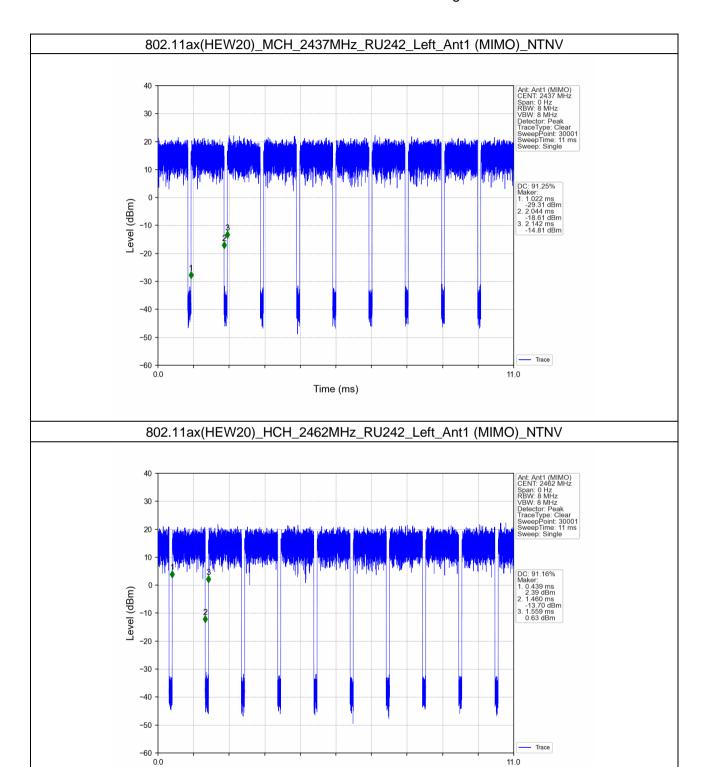
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Report No.: SZCR230400091204

Page: 100 of 165





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Report No.: SZCR230400091204

Page: 101 of 165

### 2. Bandwidth

#### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)	Verdict		
	71	, ,				Result			
		2412	/	/	1	11.120	Pass		
802.11b	SISO	2437	/	/	1	11.399	Pass		
		2462	/	/	1	11.370	Pass		
		2412	/	/	1	18.968	Pass		
802.11g	SISO	2437	/	/	1	18.498	Pass		
		2462	/	/	1	18.645	Pass		
000.44		2412	/	/	1	21.609	Pass		
802.11n (HT20)	MIMO	2437	/	/	1	19.346	Pass		
(11120)		2462	/	/	1	19.197	Pass		
000.44	1 1//111//( )	2412	RU242	Left	1	19.221	Pass		
802.11ax (HEW20)		MIMO	MIMO	MIMO	2437	RU242	Left	1	19.214
(112 7720)		2462	RU242	Left	1	19.153	Pass		



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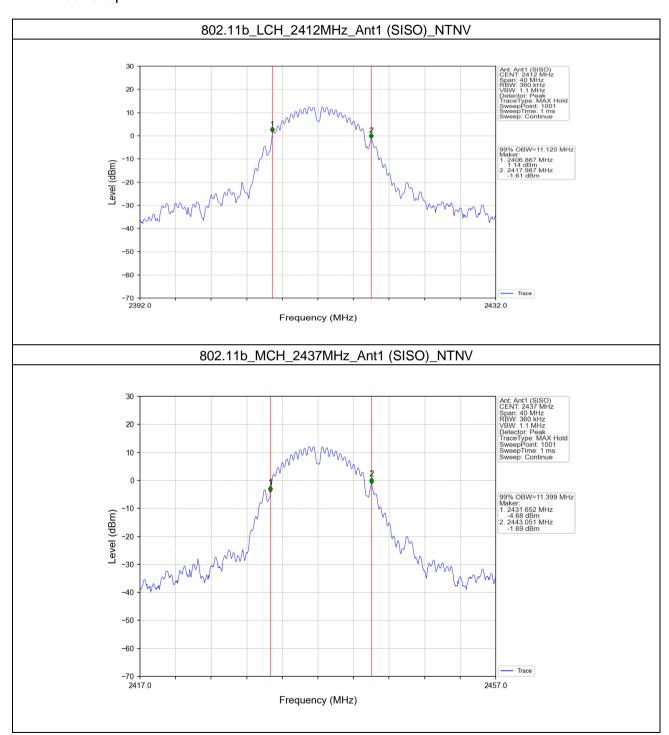


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Report No.: SZCR230400091204

Page: 102 of 165

### 2.1.2 Test Graph





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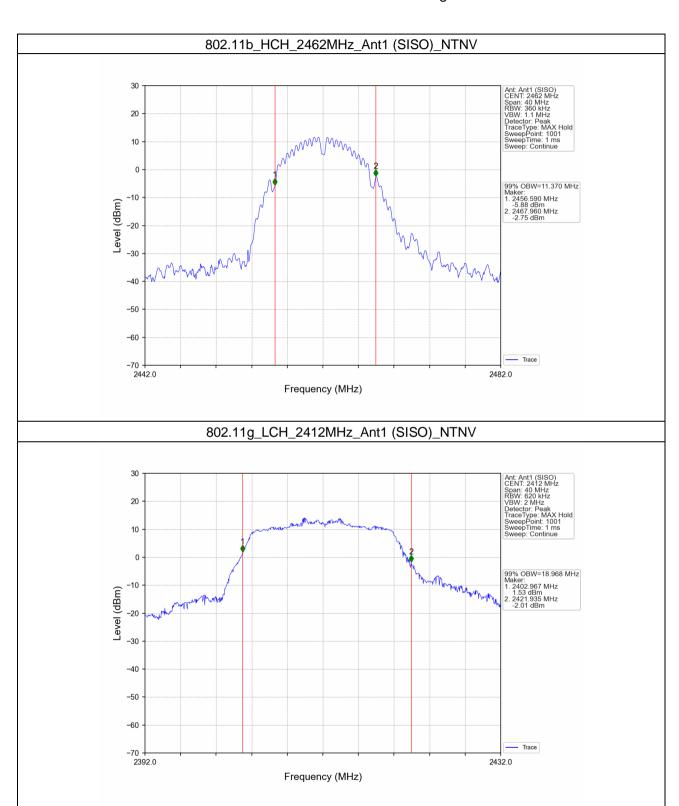
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Report No.: SZCR230400091204

Page: 103 of 165





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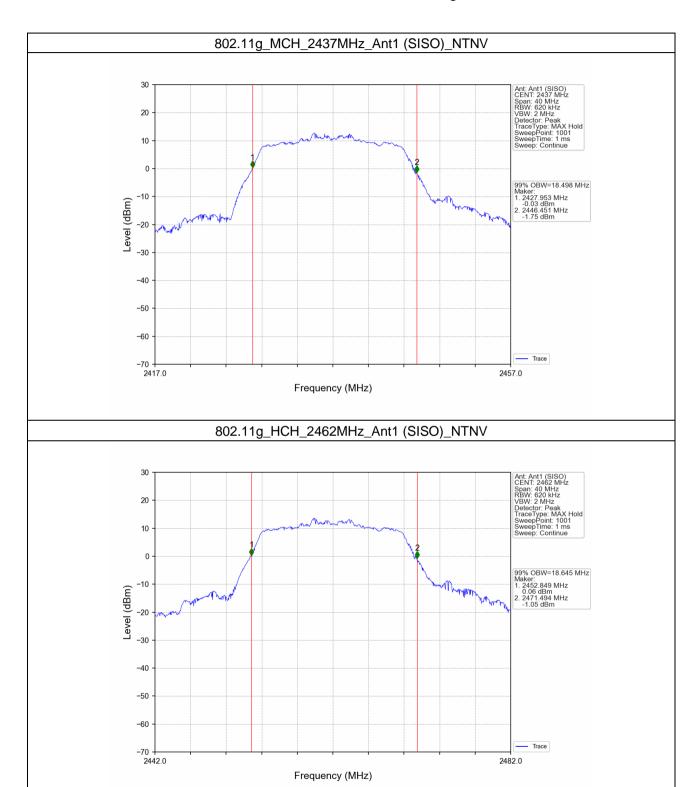
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Report No.: SZCR230400091204

Page: 104 of 165





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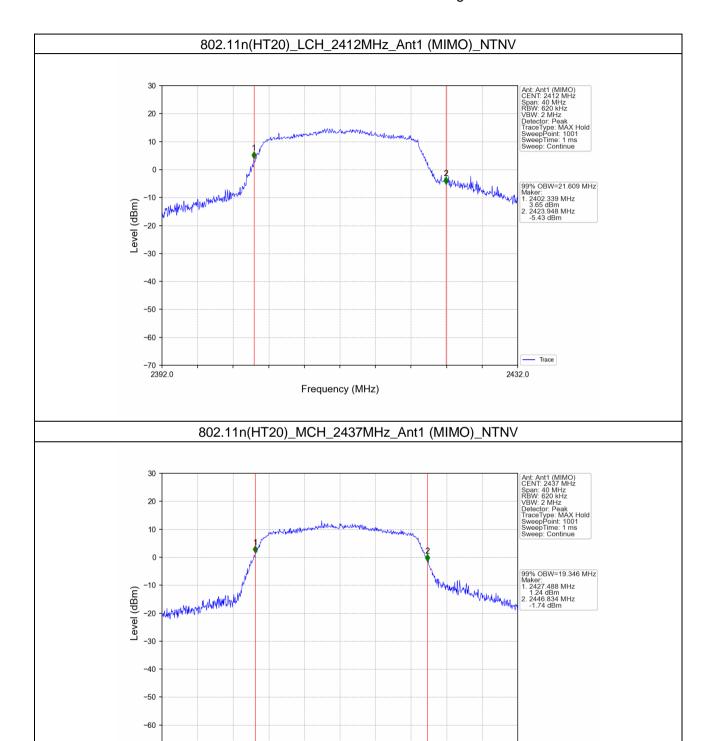
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Page: 105 of 165





-70

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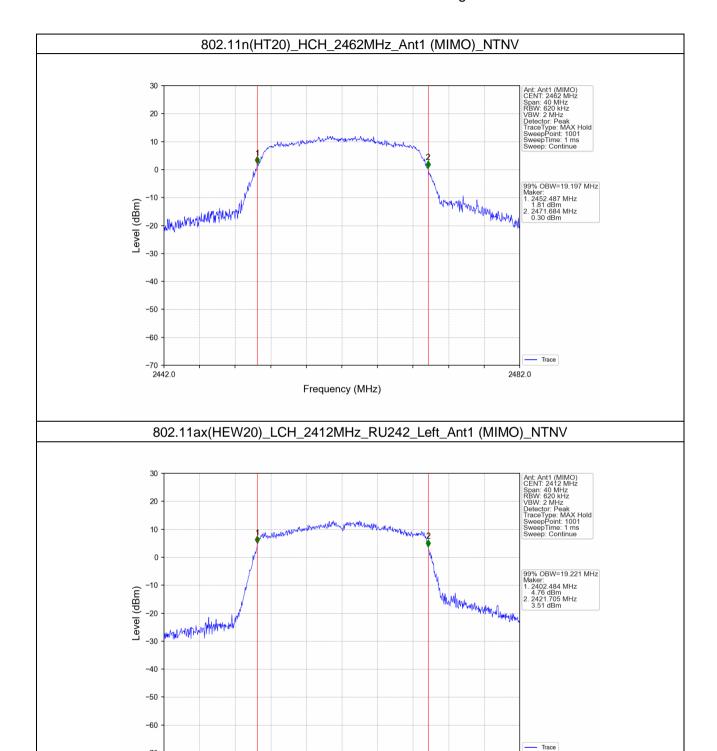
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Report No.: SZCR230400091204

Page: 106 of 165





-70

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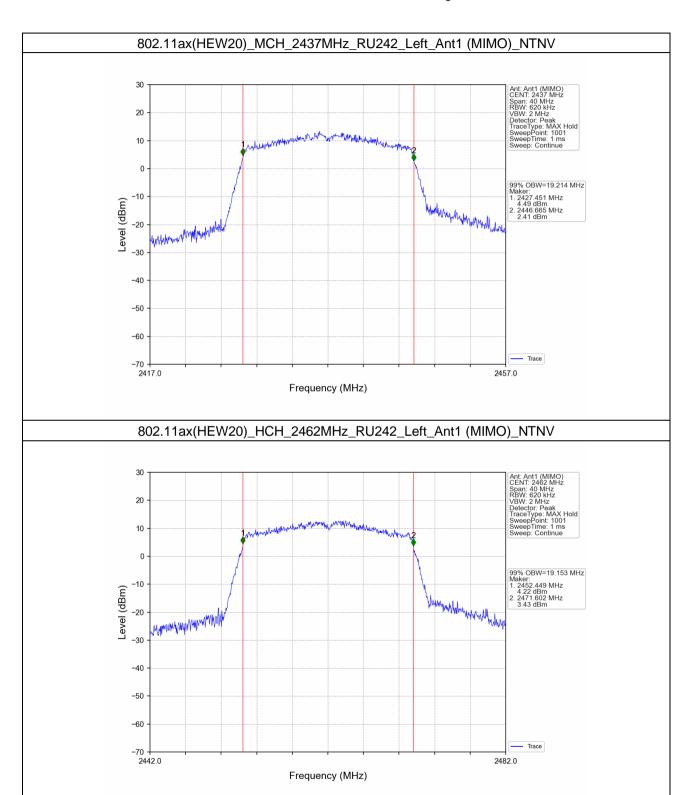
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Report No.: SZCR230400091204

Page: 107 of 165





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Report No.: SZCR230400091204

Page: 108 of 165

#### 2.2 6dB BW

#### 2.2.1 Test Result

Mode	TX	Frequency	RU	RU	ANT	6dB Bandv	vidth (MHz)	Verdict
iviode	Type	(MHz)	RU	Pos	AINT	Result	Limit	verdict
		2412	/	/	1	7.581	>=0.5	Pass
802.11b	SISO	2437	/	/	1	7.109	>=0.5	Pass
		2462	/	/	1	7.596	>=0.5	Pass
		2412	/	/	1	16.361	>=0.5	Pass
802.11g	SISO	2437	/	/	1	16.359	>=0.5	Pass
		2462	/	/	1	16.363	>=0.5	Pass
000.44	мімо	2412	/	/	1	17.574	>=0.5	Pass
802.11n (HT20)		2437	/	/	1	17.597	>=0.5	Pass
(11120)		2462	/	/	1	17.616	>=0.5	Pass
000.44		2412	RU242	Left	1	18.619	>=0.5	Pass
802.11ax (HEW20)	MIMO	2437	RU242	Left	1	18.872	>=0.5	Pass
(112 7720)		2462	RU242	Left	1	18.680	>=0.5	Pass



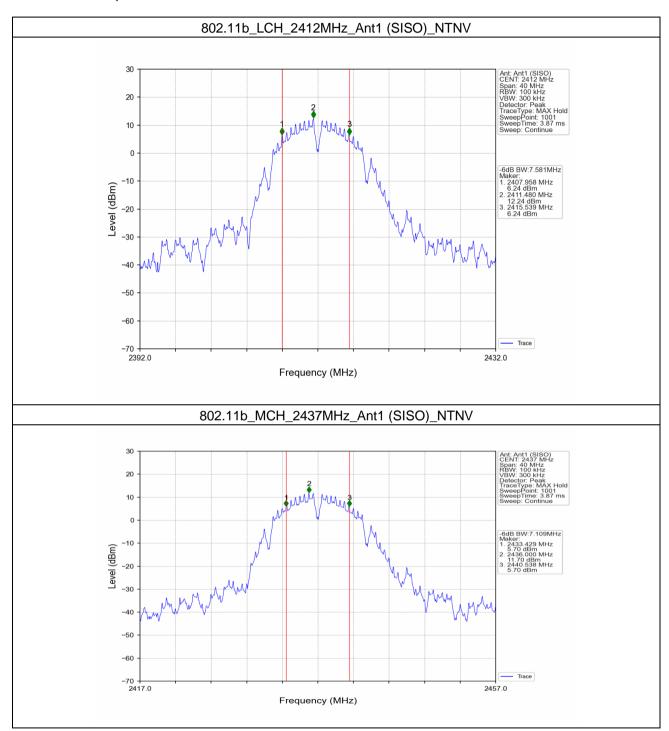


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Page: 109 of 165

### 2.2.2 Test Graph





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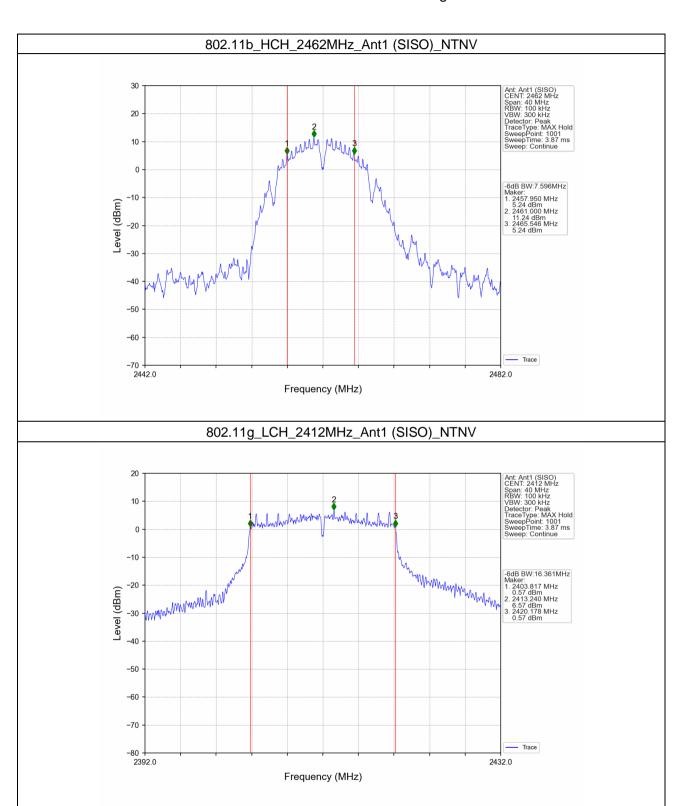
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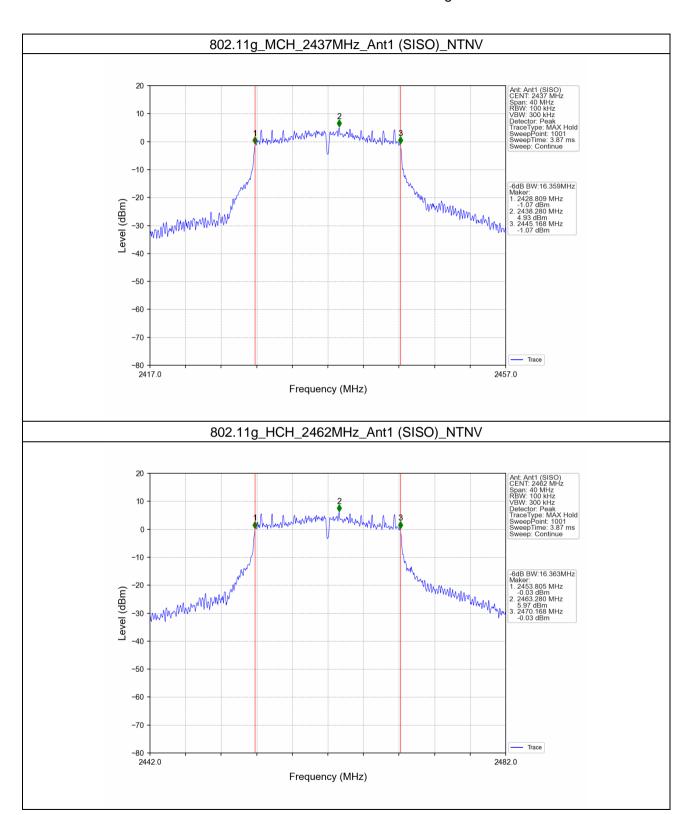
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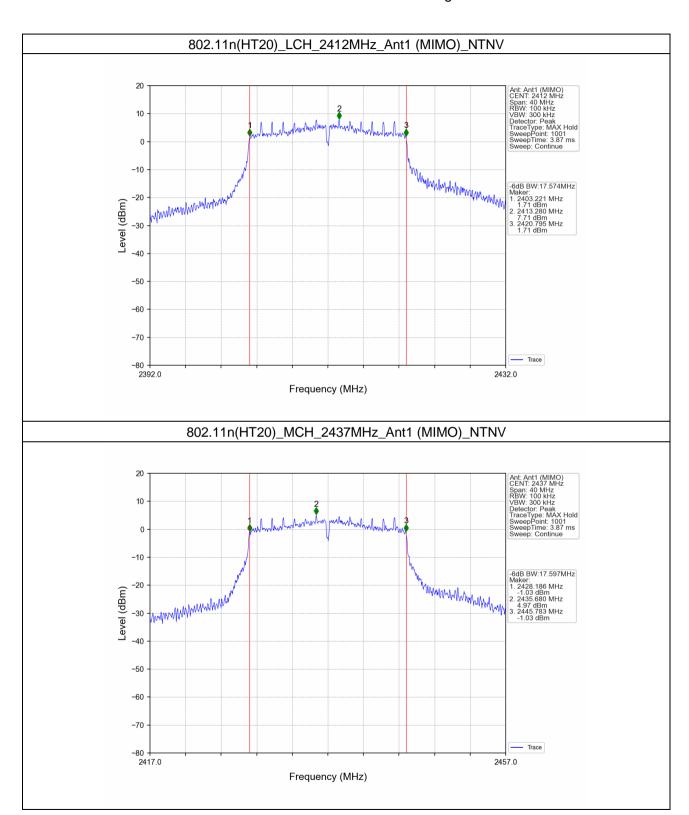
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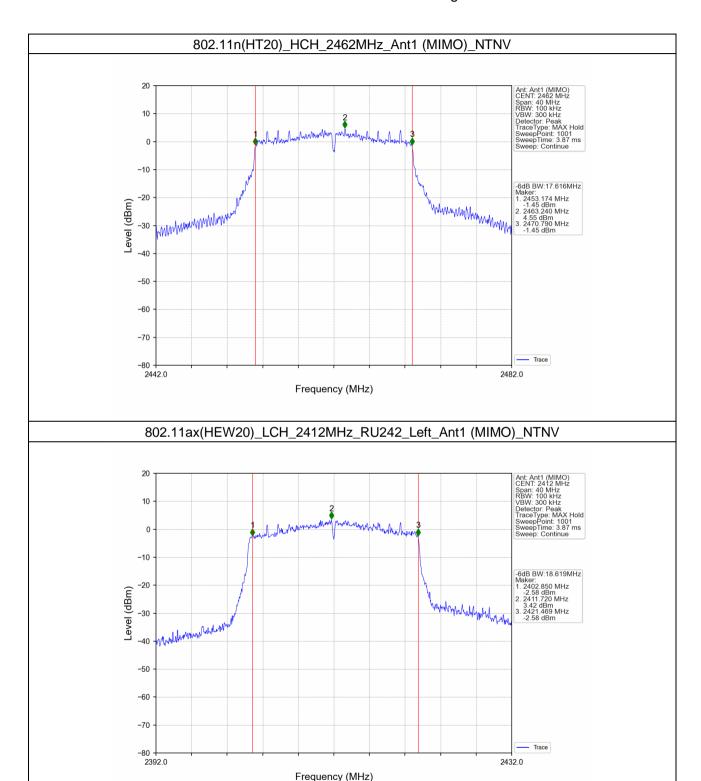
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Page: 113 of 165





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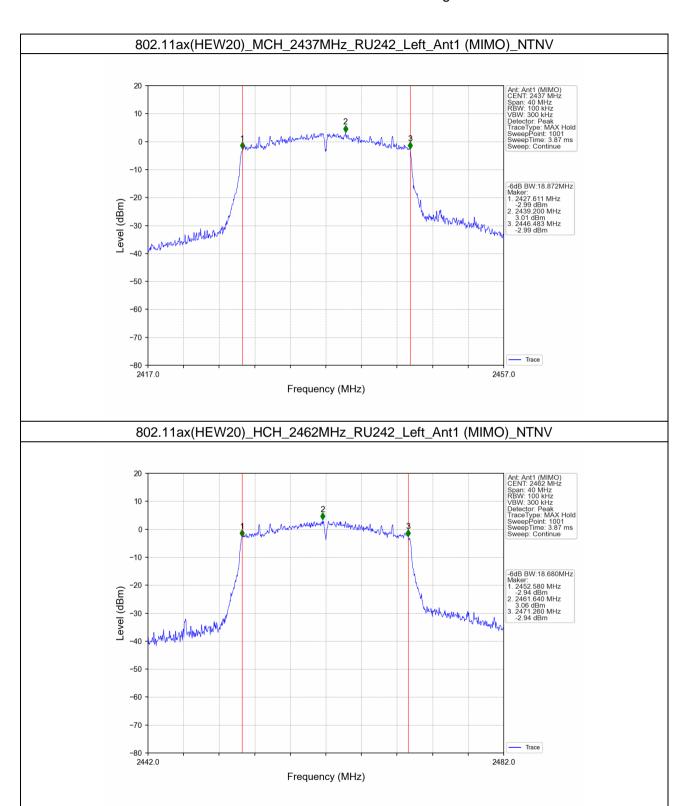
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Page: 114 of 165





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Report No.: SZCR230400091204

Page: 115 of 165

# 3. Maximum Conducted Output Power

3.1 Power

#### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Av	Vardiet			
					ANT1	ANT2	MIMO	Limit	Verdict
802.11b	SISO	2412	/	/	16.95	15.38	/	<=30	Pass
		2437	/	/	16.92	15.29	/	<=30	Pass
		2462	/	/	16.78	15.26	/	<=30	Pass
802.11g	SISO	2412	/	/	15.32	14.85	/	<=30	Pass
		2437	/	/	15.36	14.47	/	<=30	Pass
		2462	/	/	15.26	14.64	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	14.36	13.78	17.09	<=30	Pass
		2437	/	/	14.32	13.32	16.86	<=30	Pass
		2462	/	/	14.21	13.52	16.89	<=30	Pass
802.11ax (HEW20)	$\mathbf{I}$ $\mathbf{N}$ $\mathbf{I}$ $\mathbf{N}$ $\mathbf{N}$ $\mathbf{N}$	2412	RU242	Left	14.62	13.98	17.32	<=30	Pass
		2437	RU242	Left	14.59	13.60	17.13	<=30	Pass
		2462	RU242	Left	14.38	13.69	17.06	<=30	Pass

Remark: Antenna Gain: ANT 1: 3.65dBi; ANT 2: 3.65dBi; Directional Gain=GANT + Array Gain=3.65 dBi+0dB=3.65dBi



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Report No.: SZCR230400091204

Page: 116 of 165

### 4. Maximum Power Spectral Density

4.1 PSD

#### 4.1.1 Test Result

Mode	TX	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				\/ordiot
	Type				ANT1	ANT2	MIMO	Limit	Verdict
802.11b		2412	/	/	-5.03	-6.78	/	<=8	Pass
	SISO	2437	/	/	-5.76	-6.12	/	<=8	Pass
		2462	/	/	-5.92	-4.31	/	<=8	Pass
802.11g		2412	/	/	-9.34	-9.02	/	<=8	Pass
	SISO	2437	/	/	-9.21	-10.72	/	<=8	Pass
		2462	/	/	-9.64	-8.66	/	<=8	Pass
802.11n (HT20)		2412	/	/	-10.21	-11.11	-8.13	<=8	Pass
	MIMO	2437	/	/	-9.73	-11.08	-8.49	<=8	Pass
		2462	/	/	-10.88	-11.23	-9.06	<=8	Pass
802.11ax (HEW20)		2412	RU242	Left	-11.64	-10.60	-9.33	<=8	Pass
	MIMO	2437	RU242	Left	-11.36	-11.79	-9.18	<=8	Pass
		2462	RU242	Left	-10.59	-11.98	-9.10	<=8	Pass



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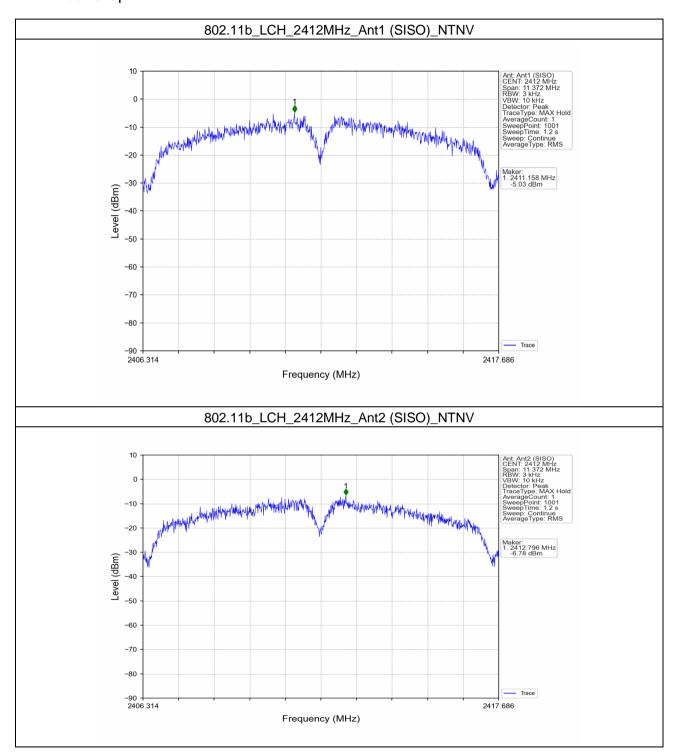


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 117 of 165

### 4.1.2 Test Graph





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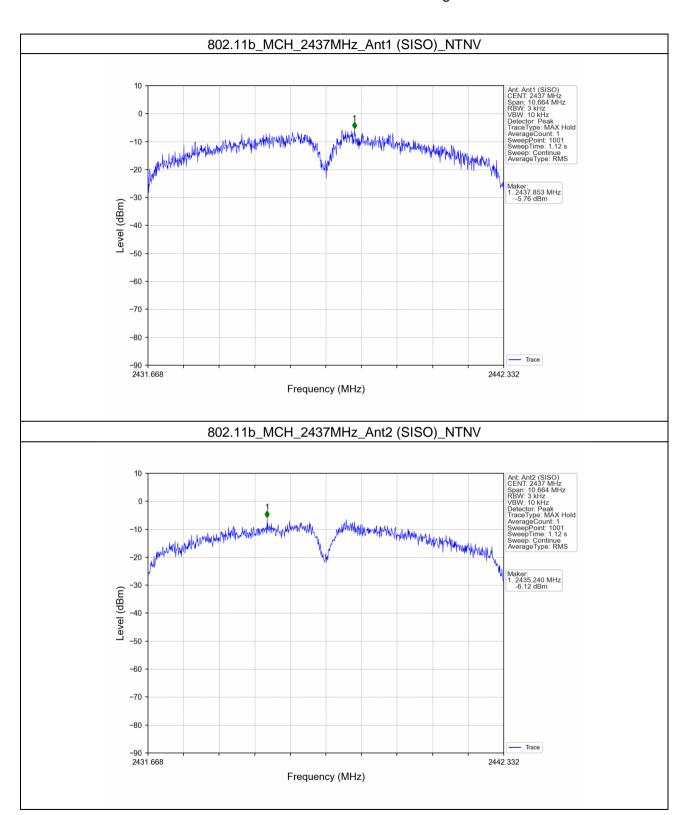
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 118 of 165





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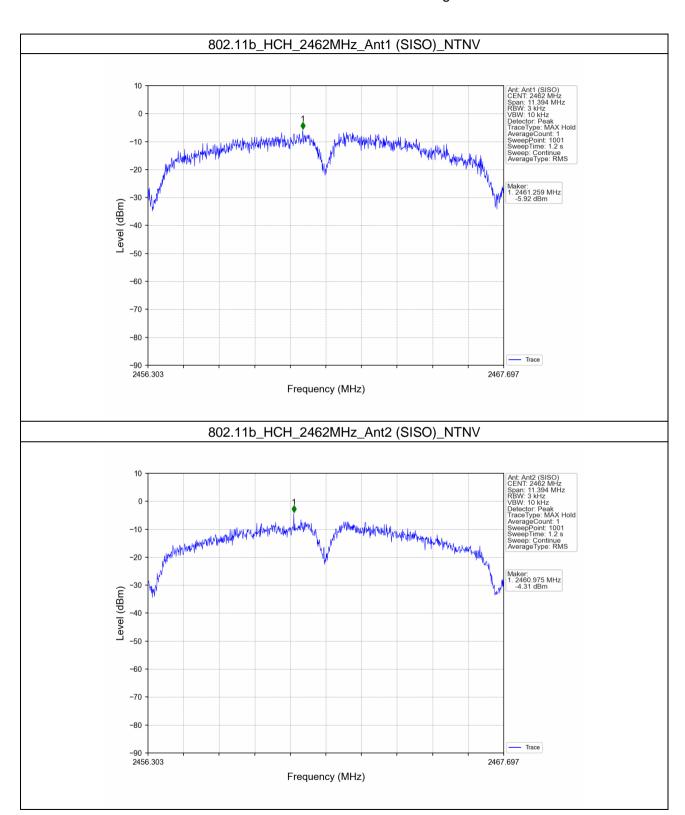
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Report No.: SZCR230400091204

Page: 119 of 165





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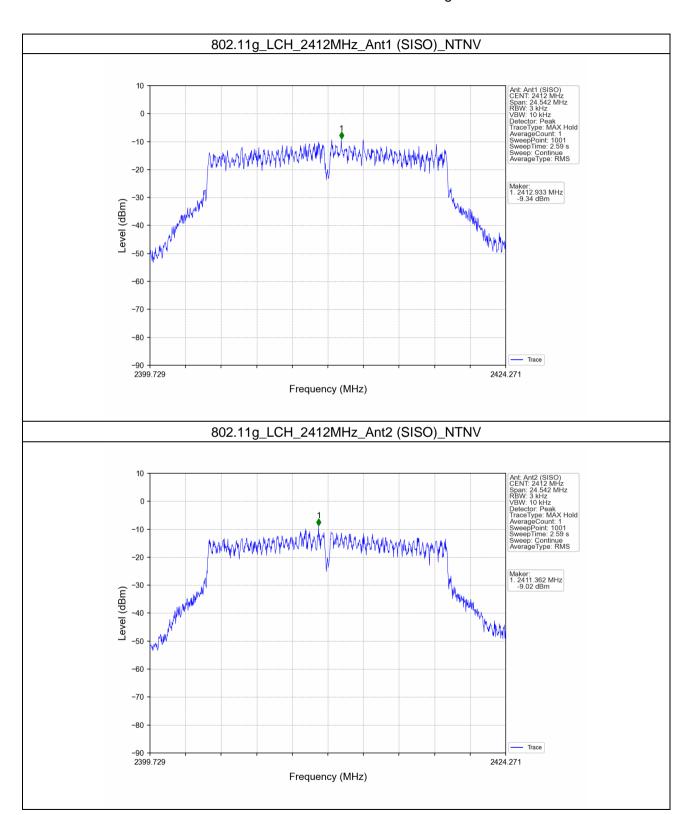
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SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400091204

Page: 120 of 165





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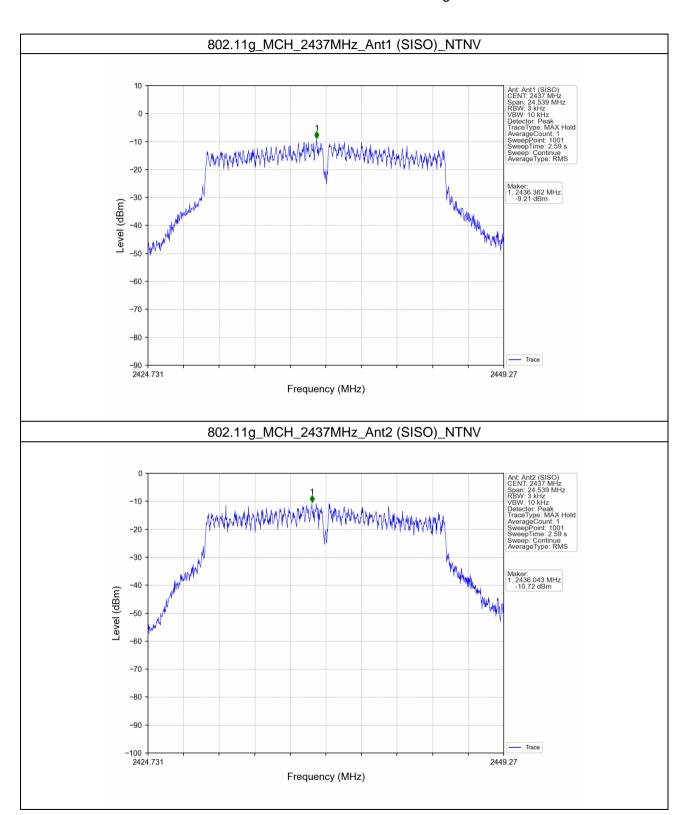
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Report No.: SZCR230400091204

Page: 121 of 165





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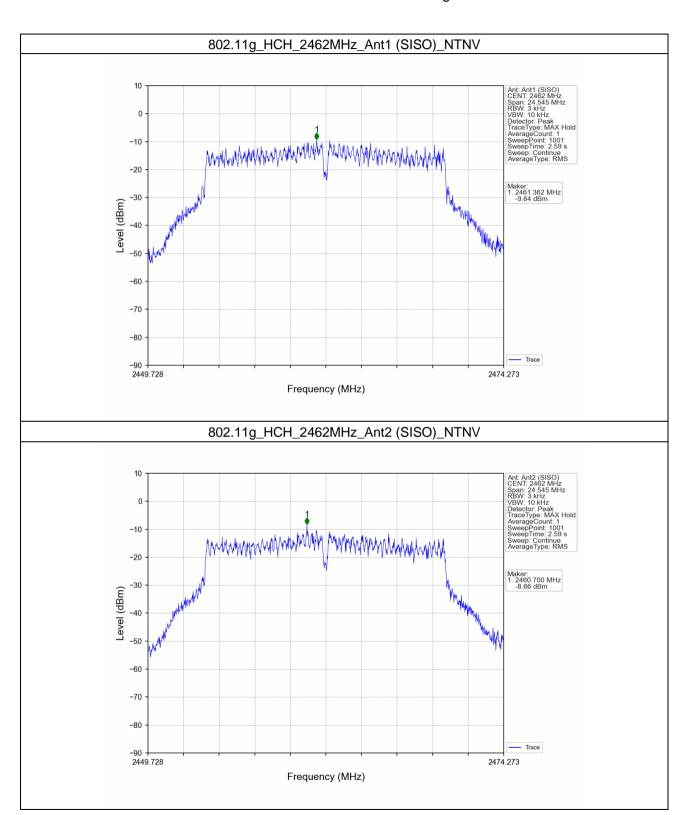
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Page: 122 of 165





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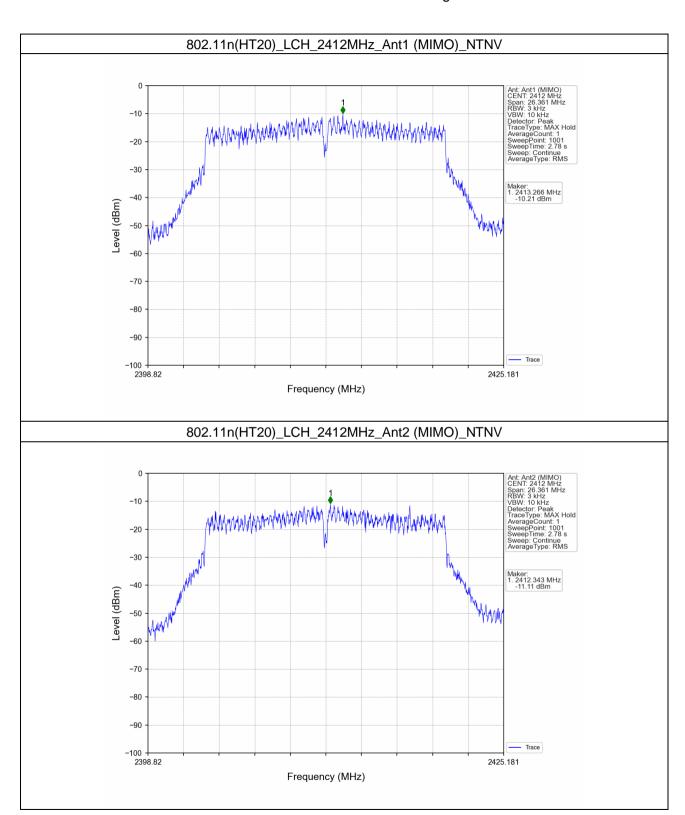
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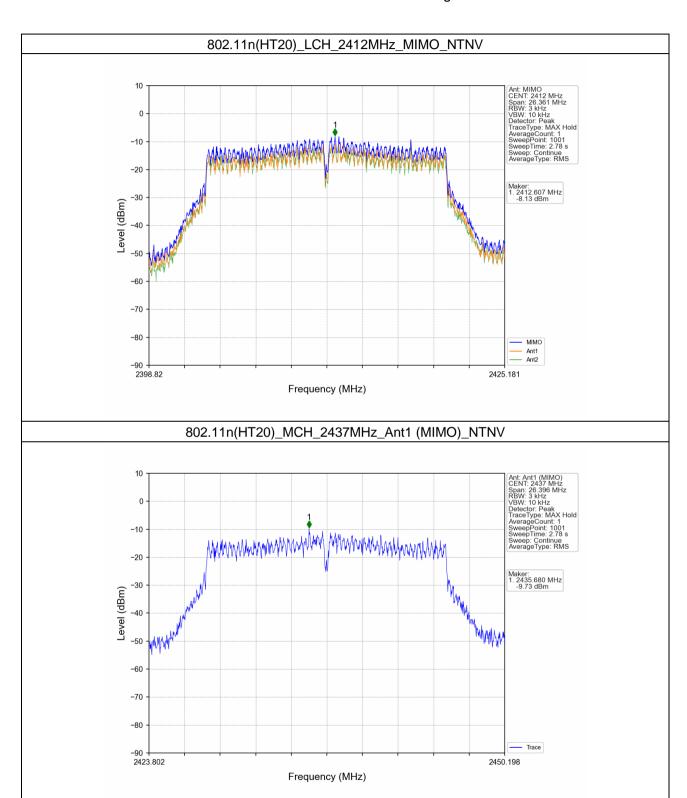
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