

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100353902

> Page: 1 of 194

TEST REPORT

Application No.: SZCR2311003539AT

Applicant: Ruijie Networks Co., Ltd.

Address of Applicant: Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan

District, Fuzhou, Fujian, 350002, China

Manufacturer: Ruijie Networks Co., Ltd.

Address of Manufacturer: Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan

District, Fuzhou, Fujian, 350002, China

Equipment Under Test (EUT):

EUT Name: Wireless Access Point

RG-RAP2260 Model No.:

Trade Mark: Reyee Reyee Reyee

FCC ID: 2AX5J-RAP2260V2

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

2023-11-06 **Date of Receipt:**

2023-11-15 to 2023-12-04 Date of Test:

Date of Issue: 2023-12-06

Pass* Test Result:

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 2 of 194

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2023-12-06		Original				

Authorized for issue by:		
	Gebin Sun	
	Gebin Sun/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100353902

> Page: 3 of 194

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	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement		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		



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 4 of 194

3 **Contents**

1 Cover Page			Page
3 Contents	1	1 Cover Page	1
4.1 Details of E.U.T. 6.4.2 Description of Support Units 6.4.3 Measurement Uncertainty 6.4.4 Test Location 6.4.4 Test Location 6.4.4 Test Location 6.4.5 Test Facility 6.6 Deviation from Standards 6.6 Deviation from Standards 6.6 Deviation from Standards 7.6 Deviation from Standard Conditions 7.7 Deviation from Standard Conditions	2	2 Test Summary	3
4.1 Details of E.U.T. 6.4.2 Description of Support Units 6.4.3 Measurement Uncertainty 6.4.4 Test Location 6.4.4 Test Location 6.4.4 Test Location 6.4.5 Test Facility 6.6 Deviation from Standards 6.6 Deviation from Standards 6.6 Deviation from Standards 7.6 Deviation from Standard Conditions 7.7 Deviation from Standard Conditions		•	
4.1 Details of E.U.T. 6 4.2 Description of Support Units 6 4.3 Measurement Uncertainty 6 4.4 Test Location 8 4.5 Test Facility 6 4.6 Deviation from Standards 8 4.7 Abnormalities from Standard Conditions 8 5 Equipment List 5 6 Radio Spectrum Technical Requirement 13 6.1 Antenna Requirement 15 6.1.1 Test Requirement 15 6.1.2 Conclusion 15 7 Radio Spectrum Matter Test Results 14 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 14 7.1.1 E.U.T. Operation 14 7.1.2 Test Mode Description 14 7.1.3 Test Setup Diagram 15 7.2 Conducted Peak Output Power 16 7.2.1 Test Mode Description 16 7.2.2 Test Mode Description 16 7.2.3 Test Setup Diagram 15 7.2.4 Me	3	3 Contents	4
4.2 Description of Support Units .6 4.3 Measurement Uncertainty .6 4.4 Test Facility .6 4.5 Test Facility .6 4.6 Deviation from Standards .8 4.7 Abnormalities from Standard Conditions .8 5 Equipment List .5 6 Radio Spectrum Technical Requirement .13 6.1.1 Test Requirement .13 6.1.2 Conclusion .13 7 Radio Spectrum Matter Test Results .14 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) .14 7.1.1 E.U.T. Operation .14 7.1.2 Test Mode Description .14 7.1.3 Test Setup Diagram .15 7.2 Conducted Peak Output Power .18 7.2.1 E.U.T. Operation .18 7.2.2 Test Mode Description .18 7.2.3 Test Setup Diagram .19 7.3.1 E.U.T. Operation .20 7.3.2 Test Mode Description .21 7	4	4 General Information	6
4.3 Measurement Uncertainty .6 4.4 Test Location .6 4.5 Test Facility .8 4.6 Deviation from Standards .8 4.7 Abnormalities from Standard Conditions .8 5 Equipment List .9 6 Radio Spectrum Technical Requirement .13 6.1 Antenna Requirement .13 6.1.1 Test Requirement .13 6.1.2 Conclusion .13 7 Radio Spectrum Matter Test Results .14 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) .14 7.1.1 E.U.T. Operation .14 7.1.2 Test Mode Description .14 7.1.3 Test Setup Diagram .15 7.2.1 E.U.T. Operation .16 7.2.2 Test Mode Description .16 7.2.1 E.U.T. Operation .16 7.2.2 Test Mode Description .16 7.3.1 E.U.T. Operation .20 7.3.2 Test Mode Description .22 7.3.1		4.1 Details of E.U.T.	€
4.4 Test Location 8.8 4.5 Test Facility 8.8 4.6 Deviation from Standards 8.8 4.7 Abnormalities from Standard Conditions 6.6 5 Equipment List 5 6 Radio Spectrum Technical Requirement 13 6.1.1 Test Requirement 15 6.1.2 Conclusion 15 7 Radio Spectrum Matter Test Results 14 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 14 7.1.1 E.U.T. Operation 14 7.1.2 Test Mode Description 14 7.1.3 Test Setup Diagram 15 7.1.4 Measurement Procedure and Data 16 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 16 7.2.3 Test Setup Diagram 16 7.2.1 E.U.T. Operation 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 22 7.3.1 E.U.T. Operation 22 7.3.2 T		4.2 Description of Support Units	6
4.5 Test Facility 5 4.6 Deviation from Standards 5 4.7 Abnormalities from Standard Conditions 5 5 Equipment List 5 6 Radio Spectrum Technical Requirement 13 6.1.1 Antenna Requirement 15 6.1.2 Conclusion 15 7 Radio Spectrum Matter Test Results 14 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 14 7.1.1 E.U.T. Operation 14 7.1.2 Test Mode Description 14 7.1.3 Test Setup Diagram 15 7.2 Test Mode Description 16 7.2.1 E.U.T. Operation 16 7.2.2 Test Mode Description 16 7.2.2 Test Mode Description 16 7.2.1 E.U.T. Operation 16 7.2.2 Test Mode Description 16 7.2.1 E.U.T. Operation 16 7.2.2 Test Mode Description 20 7.3.1 E.U.T. Operation 20 7.3.2 Tes		4.3 Measurement Uncertainty	6
4.6 Deviation from Standards		4.4 Test Location	8
4.7 Abnormalities from Standard Conditions 5.6 Equipment List 5.6 6 Radio Spectrum Technical Requirement 13 6.1.1 Test Requirement 15 6.1.1 Test Requirement 15 6.1.2 Conclusion 15 7 Radio Spectrum Matter Test Results 14 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 14 7.1.1 E.U.T. Operation 14 7.1.2 Test Mode Description 14 7.1.3 Test Setup Diagram 15 7.1.4 Measurement Procedure and Data 15 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 18 7.2.3 Test Setup Diagram 15 7.2.4 Measurement Procedure and Data 15 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 22 7.4.2 Test Mode Description 22 7		4.5 Test Facility	8
5 Equipment List 6 Radio Spectrum Technical Requirement 6.1 Antenna Requirement 6.1.1 Test Requirement: 6.1.2 Conclusion 7 Radio Spectrum Matter Test Results 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 7.2.1 E.U.T. Operation 7.2.2 Test Mode Description 7.2.3 Test Setup Diagram 7.2.4 Measurement Procedure and Data 7.3.1 E.U.T. Operation 7.3.2 Test Mode Description 7.3.3 Test Setup Diagram 7.3.1 E.U.T. Operation 7.3.2 Test Mode Description <th></th> <th></th> <th></th>			
6 Radio Spectrum Technical Requirement 13 6.1 Antenna Requirement 15 6.1.1 Test Requirement 15 6.1.2 Conclusion 15 7 Radio Spectrum Matter Test Results 14 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 14 7.1.1 E.U.T. Operation 14 7.1.2 Test Mode Description 14 7.1.3 Test Setup Diagram 15 7.1.4 Measurement Procedure and Data 15 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 18 7.2.3 Test Setup Diagram 19 7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.3.3 Test Setup Diagram 20 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 22 7.4.1 <th></th> <th>4.7 Abnormalities from Standard Conditions</th> <th>8</th>		4.7 Abnormalities from Standard Conditions	8
6.1 Antenna Requirement: 13 6.1.1 Test Requirement: 15 6.1.2 Conclusion 15 7 Radio Spectrum Matter Test Results 14 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 14 7.1.1 E.U.T. Operation 14 7.1.2 Test Mode Description 14 7.1.3 Test Setup Diagram 15 7.1.4 Measurement Procedure and Data 18 7.2 Conducted Peak Output Power 18 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 18 7.2.3 Test Setup Diagram 19 7.2.4 Measurement Procedure and Data 19 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.1 E.U.T. Operation 22 7.4.	5	5 Equipment List	9
6.1 Antenna Requirement: 13 6.1.1 Test Requirement: 15 6.1.2 Conclusion 15 7 Radio Spectrum Matter Test Results 14 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 14 7.1.1 E.U.T. Operation 14 7.1.2 Test Mode Description 14 7.1.3 Test Setup Diagram 15 7.1.4 Measurement Procedure and Data 18 7.2 Conducted Peak Output Power 18 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 18 7.2.3 Test Setup Diagram 19 7.2.4 Measurement Procedure and Data 19 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.1 E.U.T. Operation 22 7.4.	6	6 Padio Spectrum Technical Poquiroment	12
6.1.1 Test Requirement: 13 6.1.2 Conclusion 13 7 Radio Spectrum Matter Test Results 14 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 14 7.1.1 E.U.T. Operation 14 7.1.2 Test Mode Description 14 7.1.3 Test Setup Diagram 16 7.1.4 Measurement Procedure and Data 15 7.2 Conducted Peak Output Power 18 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 16 7.2.3 Test Setup Diagram 19 7.2.4 Measurement Procedure and Data 11 7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4.1 E.U.T. Operation 20 7.4.2 Test Mode Description 21 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 22 7.4.4 Measurement Procedure and Data 21 7.4.4 Measurement Procedure and Data 22	U		
6.1.2 Conclusion 13 7 Radio Spectrum Matter Test Results 14 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 14 7.1.1 E.U.T. Operation 14 7.1.2 Test Mode Description 12 7.1.3 Test Setup Diagram 15 7.1.4 Measurement Procedure and Data 15 7.2 Conducted Peak Output Power 18 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 16 7.2.3 Test Setup Diagram 15 7.2.4 Measurement Procedure and Data 15 7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4.1 E.U.T. Operation 20 7.4.2 Test Mode Description 21 7.4.2 Test Mode Description 21 7.4.2 Test Mode Description 22 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.4.3 Test Setup Diagram 21 <			
7 Radio Spectrum Matter Test Results 14 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 14 7.1.1 E.U.T. Operation 14 7.1.2 Test Mode Description 14 7.1.3 Test Setup Diagram 15 7.1.4 Measurement Procedure and Data 15 7.2 Conducted Peak Output Power 18 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 18 7.2.3 Test Setup Diagram 19 7.2.4 Measurement Procedure and Data 19 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 22 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 22 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21		·	
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 14 7.1.1 E.U.T. Operation 14 7.1.2 Test Mode Description 14 7.1.3 Test Setup Diagram 15 7.1.4 Measurement Procedure and Data 15 7.2 Conducted Peak Output Power 18 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 18 7.2.3 Test Setup Diagram 15 7.2.4 Measurement Procedure and Data 19 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 22 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 22			
7.1.1 E.U.T. Operation 14 7.1.2 Test Mode Description 14 7.1.3 Test Setup Diagram 15 7.1.4 Measurement Procedure and Data 15 7.2 Conducted Peak Output Power 18 7.2.1 E.U.T. Operation 16 7.2.2 Test Mode Description 16 7.2.3 Test Setup Diagram 19 7.2.4 Measurement Procedure and Data 19 7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4 Power Spectrum Density 21 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 22 7.4.4 Measurement Procedure and Data 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22	7	7 Radio Spectrum Matter Test Results	14
7.1.2 Test Mode Description 14 7.1.3 Test Setup Diagram 15 7.1.4 Measurement Procedure and Data 15 7.2 Conducted Peak Output Power 18 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 18 7.2.3 Test Setup Diagram 19 7.2.4 Measurement Procedure and Data 19 7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22			
7.1.3 Test Setup Diagram 15 7.1.4 Measurement Procedure and Data 15 7.2 Conducted Peak Output Power 18 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 18 7.2.3 Test Setup Diagram 19 7.2.4 Measurement Procedure and Data 19 7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 22 7.4.4 Measurement Procedure and Data 22 7.5 Conducted Band Edges Measurement 22		· ·	
7.1.4 Measurement Procedure and Data 15 7.2 Conducted Peak Output Power 18 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 18 7.2.3 Test Setup Diagram 19 7.2.4 Measurement Procedure and Data 19 7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22			
7.2 Conducted Peak Output Power 18 7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 18 7.2.3 Test Setup Diagram 19 7.2.4 Measurement Procedure and Data 19 7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22		,	
7.2.1 E.U.T. Operation 18 7.2.2 Test Mode Description 18 7.2.3 Test Setup Diagram 19 7.2.4 Measurement Procedure and Data 19 7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4 Power Spectrum Density 21 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22			
7.2.2 Test Mode Description 18 7.2.3 Test Setup Diagram 19 7.2.4 Measurement Procedure and Data 19 7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4 Power Spectrum Density 21 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22		·	
7.2.3 Test Setup Diagram 19 7.2.4 Measurement Procedure and Data 19 7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4 Power Spectrum Density 21 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22		·	
7.2.4 Measurement Procedure and Data. 19 7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4 Power Spectrum Density 21 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22			
7.3 Minimum 6dB Bandwidth 20 7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4 Power Spectrum Density 21 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22			
7.3.1 E.U.T. Operation 20 7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4 Power Spectrum Density 21 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22			
7.3.2 Test Mode Description 20 7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4 Power Spectrum Density 21 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22			
7.3.3 Test Setup Diagram 20 7.3.4 Measurement Procedure and Data 20 7.4 Power Spectrum Density 21 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22			
7.3.4 Measurement Procedure and Data 20 7.4 Power Spectrum Density 21 7.4.1 E.U.T. Operation 21 7.4.2 Test Mode Description 21 7.4.3 Test Setup Diagram 21 7.4.4 Measurement Procedure and Data 21 7.5 Conducted Band Edges Measurement 22		· ·	
7.4Power Spectrum Density217.4.1E.U.T. Operation217.4.2Test Mode Description217.4.3Test Setup Diagram217.4.4Measurement Procedure and Data217.5Conducted Band Edges Measurement22			
7.4.1E.U.T. Operation217.4.2Test Mode Description217.4.3Test Setup Diagram217.4.4Measurement Procedure and Data217.5Conducted Band Edges Measurement22			
7.4.2 Test Mode Description217.4.3 Test Setup Diagram217.4.4 Measurement Procedure and Data217.5 Conducted Band Edges Measurement22		'	
7.4.3 Test Setup Diagram		· ·	
7.4.4 Measurement Procedure and Data21 7.5 Conducted Band Edges Measurement		· ·	
7.5 Conducted Band Edges Measurement		,	
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 5 of 194

7.5.	2 Test Mode Description	22
7.5.	3 Test Setup Diagram	23
7.5.		
7.6	Conducted Spurious Emissions	24
7.6.	1 E.U.T. Operation	24
7.6.	2 Test Mode Description	24
7.6.	3 Test Setup Diagram	25
7.6.	4 Measurement Procedure and Data	25
7.7	Radiated Emissions which fall in the restricted bands	26
7.7.	1 E.U.T. Operation	26
7.7.	2 Test Mode Description	26
7.7.	3 Test Setup Diagram	27
7.7.	4 Measurement Procedure and Data	27
7.8	Radiated Spurious Emissions Below 1GHz	52
7.8.	1 E.U.T. Operation	52
7.8.	2 Test Mode Description	52
7.8.	3 Test Setup Diagram	53
7.8.	4 Measurement Procedure and Data	54
7.9	Radiated Spurious Emissions Above 1GHz	57
7.9.	1 E.U.T. Operation	57
7.9.	2 Test Mode Description	57
7.9.	3 Test Setup Diagram	57
7.9.		
8 Tes	t Setup Photo	83
9 EU	Γ Constructional Details (EUT Photos)	83
10 Apr	pendix	84



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 6 of 194

General Information

Details of E.U.T. 4.1

Power supply:	12V 2A, PoE		
Operation Fraguency	802.11b/g/n(HT20)/ax(HEW20): 2412MHz to 2462MHz,		
Operation Frequency:	802.11n(HT40)/ax(HEW40): 2422MHz to 2452MHz		
	802.11b: DSSS(CCK, DQPSK, DBPSK)		
Modulation Type:	802.11 g/n: OFDM(16QAM, 64QAM, QPSK, BPSK)		
	802.11 ax: OFDMA(16QAM, 64QAM, 256QAM, 1024QAM, QPSK, BPSK)		
Channel Spacing:	5MHz		
Number of Channels:	802.11b/g/n(HT20)/ax(HEW20): 11,		
Number of Charmers.	802.11n(HT40)/ax(HEW40):7		
Antenna Type:	PIFA Antenna		
Antenna Gain:	Ant1: 2.80dBi		
Antenna Gain:	Ant2: 2.50dBi		

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

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Supplied by SGS	DC12V	REF. No.SEA28A00
RF cable	supplied by SGS	N/A(cable loss:0.6dB)	REF. No.SEL000089

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
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	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100353902

> Page: 7 of 194

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/1 Report No.: SZCR231100353902

> Page: 8 of 194

4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

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

• FCC -Designation Number: CN1336

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 9 of 194

5 **Equipment List**

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

Conducted Peak Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31	
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

Minimum 6dB Bandwidt	h				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 10 of 194

Power Spectrum Density							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20		
Measurement Software	surement Software TST PASS TST PASS V2.0		N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06		
Attenuator Huber+Suhner		6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30		

Conducted Band Edges Measurement							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20		
Measurement Software	oftware TST PASS TST PASS V2.0		N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06		
		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	2023-10-19	2024-10-18		
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	2023-07-07	2024-07-06		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30		



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 11 of 194

Radiated Emissions which fall in the restricted bands							
Equipment	Manufacturer	Model No.	odel No. Inventory No.		Cal Due Date		
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31		
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19		
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22		
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18		
Measurement Software	Measurement Software AUDIX		N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06		
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	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29		
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19		
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18		
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18		
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15		
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2023-03-20	2024-03-19		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06		



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 12 of 194

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

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



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100353902

> Page: 13 of 194

Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The device uses nondetachable antennas and no consideration of replacement. The best case gain of the antenna was showed as below.

Ant1: 2.80dBi Ant2: 2.50dBi

The EUT supports CDD, and all antenna gains are not equal, according to KDB662911 D01 2) f) (iii) guidelines:

Directional gain = G_{ANT} + Array Gain

the Directional gain = 2.80dBi(N_{ANT}≤ 4, Array Gain=0dB)

Antenna location: Refer to internal photos



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 14 of 194

Radio Spectrum Matter Test Results 7

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/MU-)	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:

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

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). 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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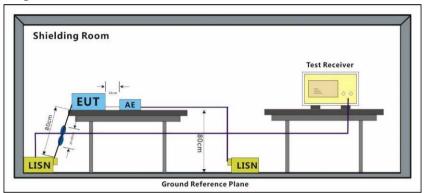
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100353902

> Page: 15 of 194

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.

- 1)Level=Read Level+ Cable Loss+ LISN Factor
- 2) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.



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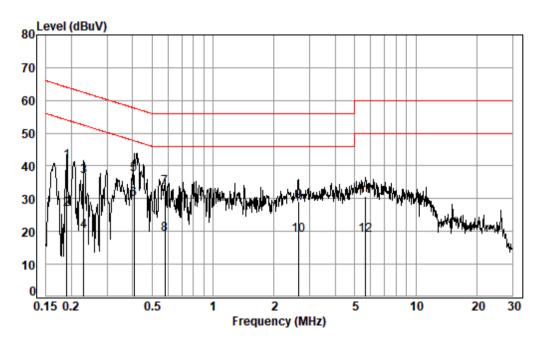


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 16 of 194

Test Mode: 00: Line: Live line



: Shielding Room

Condition: Line Job No. : 03539AT

Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.190	0.02	10.28	30.93	41.23	64.02	-22.79	QP
2	0.190	0.02	10.28	16.38	26.68	54.02	-27.34	Average
3	0.230	0.03	10.29	26.54	36.86	62.44	-25.58	QP
4	0.230	0.03	10.29	9.72	20.04	52.44	-32.40	Average
5 *	0.408	0.03	10.33	27.06	37.42	57.68	-20.26	QP
6 *	0.408	0.03	10.33	19.52	29.88	47.68	-17.80	Average
7	0.579	0.04	10.34	23.09	33.47	56.00	-22.53	QP
8	0.579	0.04	10.34	8.78	19.16	46.00	-26.84	Average
9	2.650	0.07	10.56	18.64	29.27	56.00	-26.73	QP
10	2.650	0.07	10.56	8.16	18.79	46.00	-27.21	Average
11	5.623	0.10	10.89	19.70	30.69	60.00	-29.31	QP
12	5.623	0.10	10.89	7.73	18.72	50.00	-31.28	Average

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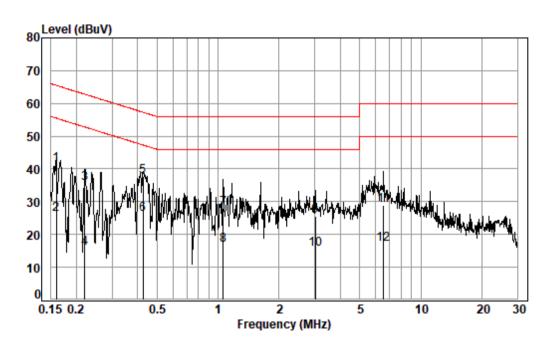


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 17 of 194

Test Mode: 00; Line: Neutral Line



: Shielding Room

Condition: Neutral : 03539AT Job No.

Test mode: 00

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	——dB	dBuV	dBuV	dBuV	——dB	
1	0.160	0.02	10.24	31.21	41.47	65.47	-24.00	QP
2	0.160	0.02	10.24	16.03	26.29	55.47	-29.18	Average
3	0.220	0.03	10.25	25.33	35.61	62.83	-27.22	QP
4	0.220	0.03	10.25	5.63	15.91	52.83	-36.92	Average
5 :	* 0.426	0.03	10.28	27.43	37.74	57.33	-19.59	QP
6	* 0.426	0.03	10.28	15.87	26.18	47.33	-21.15	Average
7	1.060	0.06	10.32	17.68	28.06	56.00	-27.94	QP
8	1.060	0.06	10.32	6.25	16.63	46.00	-29.37	Average
9	3.025	0.08	10.64	14.88	25.60	56.00	-30.40	QP
10	3.025	0.08	10.64	4.72	15.44	46.00	-30.56	Average
11	6.557	0.11	11.11	17.54	28.76	60.00	-31.24	QP
12	6.557	0.11	11.11	5.96	17.18	50.00	-32.82	Average



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 18 of 194

7.2 Conducted Peak Output Power

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

Limit:

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 modulat				

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.1 °C Humidity: 50.1 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

1.2.2 1 CSt IV	ouc Dc.	scription
Pre-scan / Final test	Mode Code	Description
Final test	00	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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @ 8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). 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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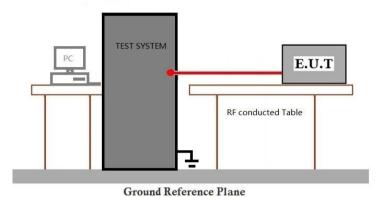
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> Page: 19 of 194

7.2.3 Test Setup Diagram



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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Report No.: SZCR231100353902

Page: 20 of 194

7.3 Minimum 6dB Bandwidth

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

Limit:

≥500 kHz

7.3.1 E.U.T. Operation

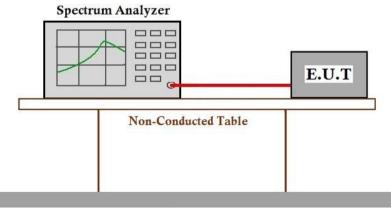
Operating Environment:

Atmospheric Pressure: 1000 mbar Temperature: 24.1 °C Humidity: 50.1 % RH

7.3.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	00	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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). 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



Ground Reference Plane

7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR231100353902

Page: 21 of 194

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

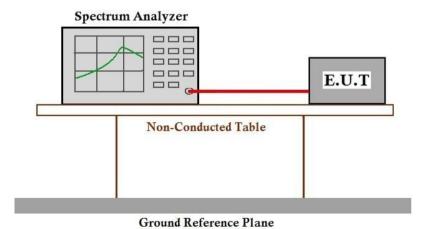
Operating Environment:

Temperature: 24.1 °C Humidity: 50.1 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

71-12 10001		
Pre-scan / Final test	Mode Code	Description
Final test	00	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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). 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



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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> Page: 22 of 194

7.5 Conducted Band Edges Measurement

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

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: 24.1 °C Humidity: 50.1 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

1.3.2 1 CSL IV		sonption
Pre-scan / Final test	Mode Code	Description
Final test	00	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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). 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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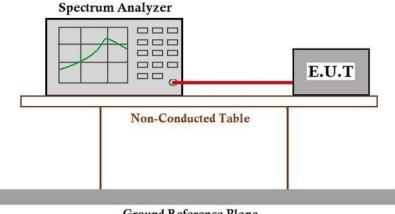
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> Page: 23 of 194

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/1 Report No.: SZCR231100353902

> Page: 24 of 194

7.6 Conducted Spurious Emissions

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

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: 24.1 °C Humidity: 50.1 % RH Atmospheric Pressure: 1000 mbar

7.6.2 Test Mode Description

7.0.2 Test Mode Description								
Pre-scan / Final test	Mode Code	Description						
Final test	00	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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). 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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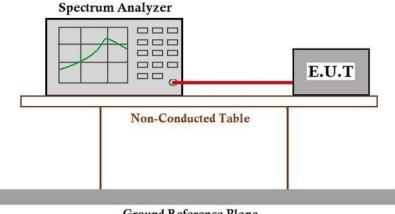
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100353902

> Page: 25 of 194

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100353902

> Page: 26 of 194

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

Measurement Distance: 3m

Limit:

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

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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C Humidity: 58.6 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). 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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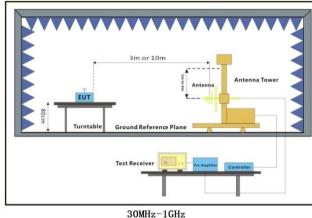
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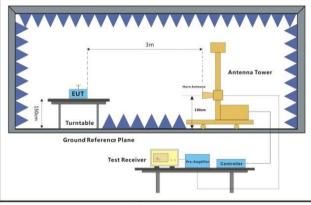


SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100353902

> Page: 27 of 194

7.7.3 Test Setup Diagram





Above 1GHz

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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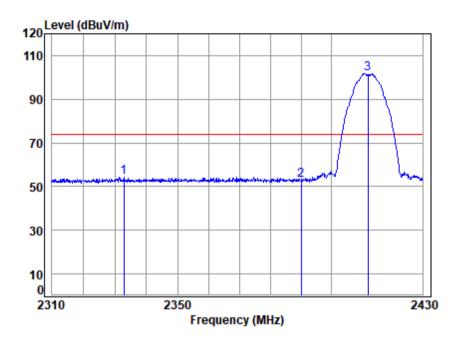


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 28 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT Mode : 2412 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		
2332.807	5.02	28.86	37.57	58.17	54.48	74.00	-19.52	peak	
2390.000	5.08	29.10	37.44	56.35	53.09	74.00	-20.91	peak	
q 2412.000	5.10	29.05	37.38	104.93	101.70	74.00	27.70	peak	
	MHz 2332.807 2390.000	Freq Loss MHz dB 2332.807 5.02 2390.000 5.08	Freq Loss Factor MHz dB dB/m 2332.807 5.02 28.86 2390.000 5.08 29.10	Freq Loss Factor Factor MHz dB dB/m dB 2332.807 5.02 28.86 37.57 2390.000 5.08 29.10 37.44	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2332.807 5.02 28.86 37.57 58.17 2390.000 5.08 29.10 37.44 56.35	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2332.807 5.02 28.86 37.57 58.17 54.48 2390.000 5.08 29.10 37.44 56.35 53.09	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2332.807 5.02 28.86 37.57 58.17 54.48 74.00 2390.000 5.08 29.10 37.44 56.35 53.09 74.00	MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2332.807 5.02 28.86 37.57 58.17 54.48 74.00 -19.52 2390.000 5.08 29.10 37.44 56.35 53.09 74.00 -20.91	Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB dBuV/m dB 2332.807 5.02 28.86 37.57 58.17 54.48 74.00 -19.52 peak



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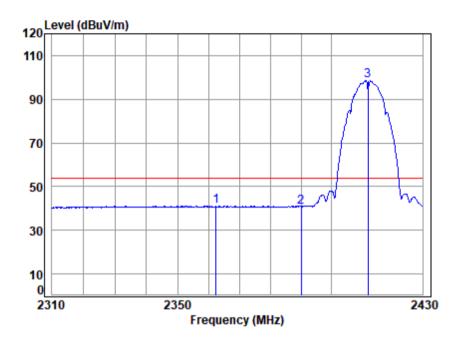


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 29 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT : 2412 Band edge Mode Note : 2.4G WIFI 11B

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2362.411	5.05	29.10	37.50	44.53	41.18	54.00	-12.82	Average
2	2390.000	5.08	29.10	37.44	44.04	40.78	54.00	-13.22	Average
3 q	2412.000	5.10	29.05	37.38	101.84	98.61	54.00	44.61	Average



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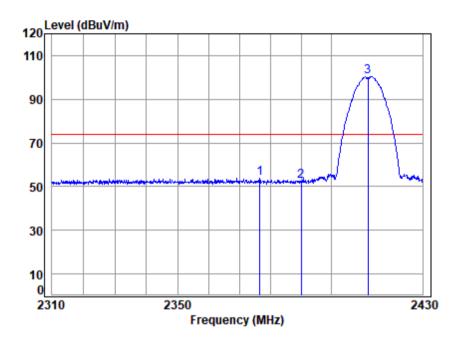


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 30 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT Mode : 2412 Band edge . 2 4G WTFT 11R Note

ore	: Z.	4G WIF	I IID							
		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	2376.571	5.06	29.10	37.47	56.97	53.66	74.00	-20.34	Peak	
2	2390.000	5.08	29.10	37.44	55.79	52.53	74.00	-21.47	Peak	
3 a	2412.000	5.10	29.05	37.38	103.70	100.47	74.00	26.47	Peak	



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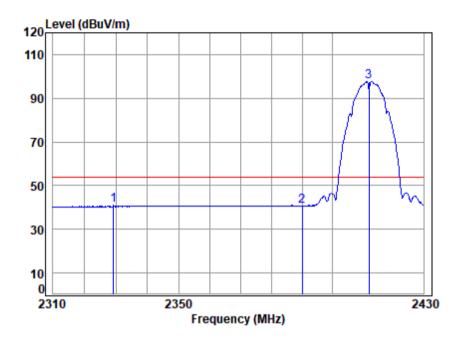


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 31 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT Mode : 2412 Band edge Note : 2.4G WIFI 11B

	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2329.266	5.02	28.81	37.58	44.66	40.91	54.00	-13.09	Average
2	2390.000	5.08	29.10	37.44	43.85	40.59	54.00	-13.41	Average
3	q 2412.000	5.10	29.05	37.38	101.03	97.80	54.00	43.80	Average



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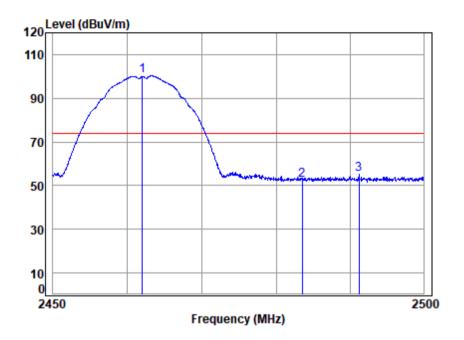


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 32 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT : 2462 Band edge Mode Note : 2.4G WIFI 11B

	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHZ	dВ	dB/m	dВ	dBuV	dBuV/m	dBuV/m	dB	
1 -	2462 000	E 14	20.00	27 27	102 44	100 21	74.00	26 21	
тq	2462.000	5.14	20.90	3/.2/	103.44	100.21	74.00	20.21	peak
2	2483.500	5.16	28.90	37.22	55.70	52.54	74.00	-21.46	peak
3	2491.227	5.17	28.90	37.20	58.55	55.42	74.00	-18.58	peak



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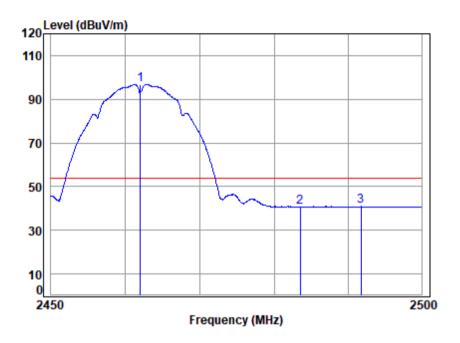


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 33 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT Mode : 2462 Band edge Note : 2.4G WIFI 11B

	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	5.14	28.90	37.27	100.18	96.95	54.00	42.95	Average
2	2483.500	5.16	28.90	37.22	43.75	40.59	54.00	-13.41	Average
3	2491.731	5.17	28.90	37.20	44.06	40.93	54.00	-13.07	Average



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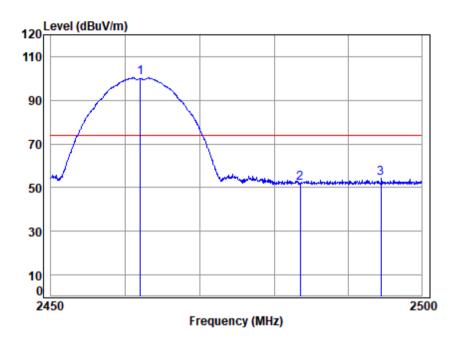


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 34 of 194

Test Mode: 00; Polarity: Vertical: Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT Mode : 2462 Band edge : 2.4G WIFI 11B Note

	. 2140 MI/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 (2462.000	5.14	28.90	37.27	103.48	100.25	74.00	26.25	Peak
2	2483.500	5.16	28.90	37.22	55.14	51.98	74.00	-22.02	Peak
3	2494.501	5.17	28.90	37.19	57.28	54.16	74.00	-19.84	Peak



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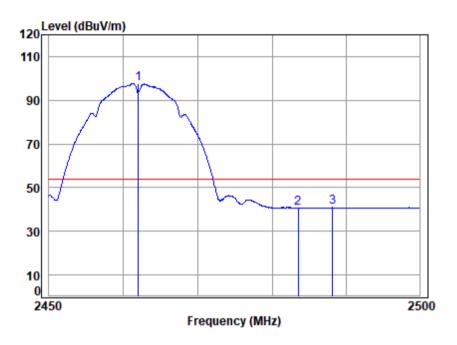


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 35 of 194

Test Mode: 00; Polarity: Vertical: Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT 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	
2462.000	5.14	28.90	37.27	100.94	97.71	54.00	43.71	Average
2483.500	5.16	28.90	37.22	43.78	40.62	54.00	-13.38	Average
2488.209	5.16	28.90	37.21	44.03	40.88	54.00	-13.12	Average
	MHz 2462.000 2483.500	Freq Loss MHz dB 2462.000 5.14 2483.500 5.16	Freq Loss Factor MHz dB dB/m 2462.000 5.14 28.90 2483.500 5.16 28.90	Freq Loss Factor Factor MHz dB dB/m dB 2462.000 5.14 28.90 37.27 2483.500 5.16 28.90 37.22	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2462.000 5.14 28.90 37.27 100.94 2483.500 5.16 28.90 37.22 43.78	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2462.000 5.14 28.90 37.27 100.94 97.71 2483.500 5.16 28.90 37.22 43.78 40.62	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2462.000 5.14 28.90 37.27 100.94 97.71 54.00 2483.500 5.16 28.90 37.22 43.78 40.62 54.00	Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 2462.000 5.14 28.90 37.27 100.94 97.71 54.00 43.71 2483.500 5.16 28.90 37.22 43.78 40.62 54.00 -13.38 2488.209 5.16 28.90 37.21 44.03 40.88 54.00 -13.12



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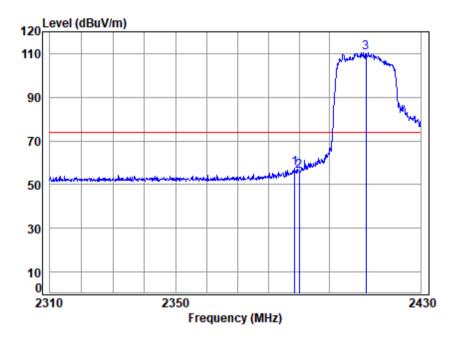


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 36 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT Mode : 2412 Band edge : 2.4G WIFI 11AX20 Note

	. 21 10 1121 22/0120								
	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		
2388.516	5.07	29.10	37.44	60.53	57.26	74.00	-16.74	peak	
2390.000	5.08	29.10	37.44	59.16	55.90	74.00	-18.10	peak	
q 2412.000	5.10	29.05	37.38	113.87	110.64	74.00	36.64	peak	
	MHz 2388.516 2390.000	Freq Loss MHz dB 2388.516 5.07 2390.000 5.08	Freq Loss Factor MHz dB dB/m 2388.516 5.07 29.10 2390.000 5.08 29.10	Freq Loss Factor Factor MHz dB dB/m dB 2388.516 5.07 29.10 37.44 2390.000 5.08 29.10 37.44	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2388.516 5.07 29.10 37.44 60.53 2390.000 5.08 29.10 37.44 59.16	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2388.516 5.07 29.10 37.44 60.53 57.26 2390.000 5.08 29.10 37.44 59.16 55.90	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2388.516 5.07 29.10 37.44 60.53 57.26 74.00 2390.000 5.08 29.10 37.44 59.16 55.90 74.00	MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2388.516 5.07 29.10 37.44 60.53 57.26 74.00 -16.74 2390.000 5.08 29.10 37.44 59.16 55.90 74.00 -18.10	Freq Loss Factor Factor Level Level Line Limit Remark



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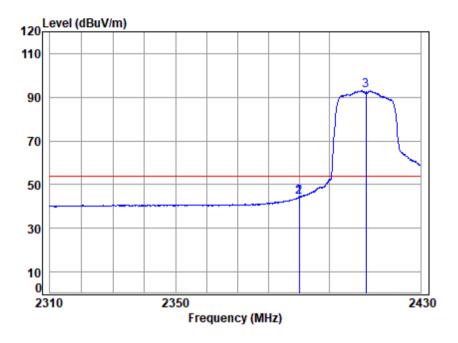


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 37 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT Mode : 2412 Band edge : 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	2389.968	5.08	29.10	37.44	47.67	44.41	54.00	-9.59	Average
2	2390.000	5.08	29.10	37.44	47.67	44.41	54.00	-9.59	Average
3 0	2412.000	5.10	29.05	37.38	96.26	93.03	54.00	39.03	Average



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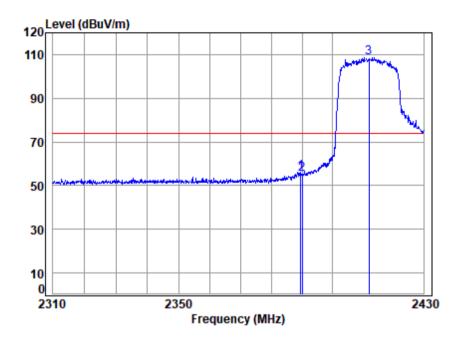


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 38 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT : 2412 Band edge Mode · 2 46 WTET 110X20 Note

Le	: Z.	4G WIF	I IIAN	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		
							•			
	2389.484	5.07	29.10	37.44	59.45	56.18	74.00	-17.82	Peak	
)	2390.000	5.08	29.10	37.44	58.67	55.41	74.00	-18.59	Peak	
	2412.000									



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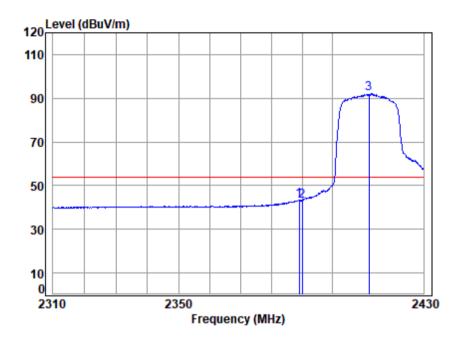


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 39 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT Mode : 2412 Band edge : 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	2389.000	5.07	29.10	37.44	46.62	43.35	54.00	-10.65	Average	
2	2390.000	5.08	29.10	37.44	46.28	43.02	54.00	-10.98	Average	
3 q	2412.000	5.10	29.05	37.38	95.21	91.98	54.00	37.98	Average	



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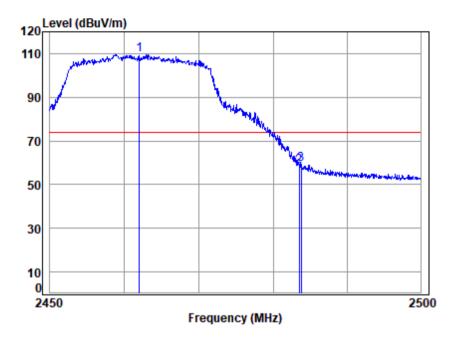


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 40 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT Mode : 2462 Band edge Note : 2.4G WIFI 11AX20

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBu V	dBuV/m	dBuV/m	dB	
1	q 2462.000	5.14	28.90	37.27	112.61	109.38	74.00	35.38	peak
2	2483.500	5.16	28.90	37.22	61.63	58.47	74.00	-15.53	peak
3	2483.790	5.16	28.90	37.22	62.41	59.25	74.00	-14.75	peak



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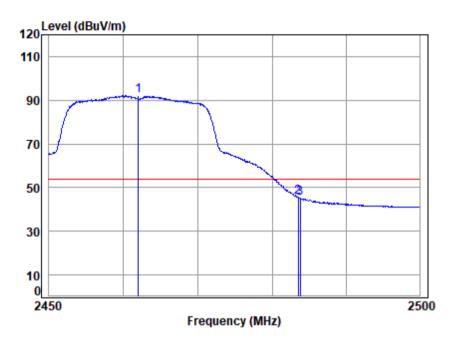


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 41 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT Mode : 2462 Band edge Note : 2.4G WIFI 11AX20

		Fred			Preamp Factor					Romank	
		1164	L033	ractor	i ac coi	rever	LEVEI	LINE	LIMIT	Kellidi K	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	q	2462.000	5.14	28.90	37.27	95.22	91.99	54.00	37.99	Average	
2		2483.500	5.16	28.90	37.22	48.57	45.41	54.00	-8.59	Average	
3		2483.790	5.16	28.90	37.22	48.23	45.07	54.00	-8.93	Average	



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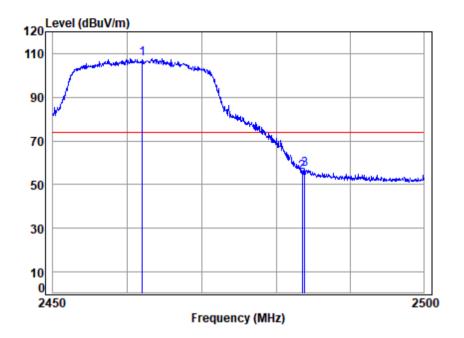


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 42 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT : 2462 Band edge Mode . 2.46 WTFT 11AY20 Note

Le	: 2.4	4G WIF	T TIAX	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		_
							•			
q	2462.000	5.14	28.90	37.27	111.07	107.84	74.00	33.84	Peak	
2	2483.500	5.16	28.90	37.22	58.86	55.70	74.00	-18.30	Peak	
3	2483.840	5.16	28.90	37.22	60.07	56.91	74.00	-17.09	Peak	



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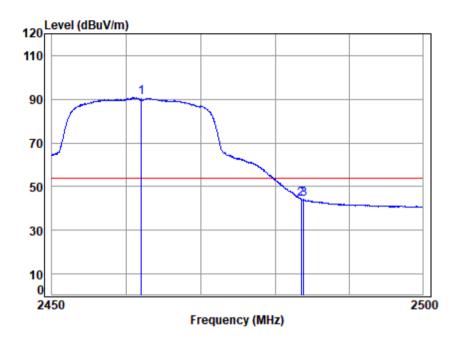


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 43 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT Mode : 2462 Band edge : 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	5.14	28.90	37.27	93.89	90.66	54.00	36.66	Average
2	2483.500	5.16	28.90	37.22	47.43	44.27	54.00	-9.73	Average
3	2483.840	5.16	28.90	37.22	47.36	44.20	54.00	-9.80	Average



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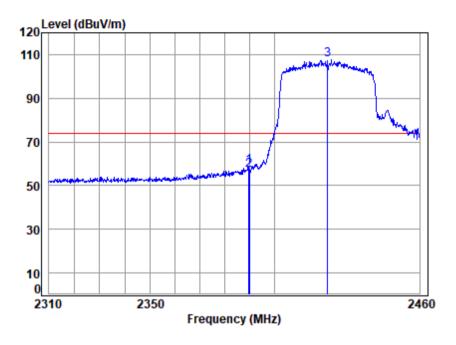


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 44 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT Mode : 2422 Band edge : 2.4G WIFI 11AX40 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	2389.827	5.08	29.10	37.44	62.12	58.86	74.00	-15.14	peak
2	2390.000	5.08	29.10	37.44	60.29	57.03	74.00	-16.97	peak
3 q	2422.000	5.10	29.01	37.36	110.95	107.70	74.00	33.70	peak



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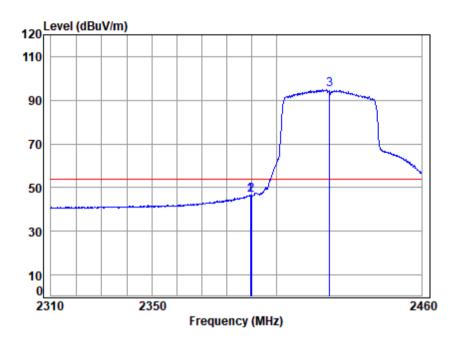


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 45 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT Mode : 2422 Band edge : 2.4G WIFI 11AX40 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	2389.526	5.07	29.10	37.44	49.83	46.56	54.00	-7.44	Average	
2	2390.000	5.08	29.10	37.44	50.00	46.74	54.00	-7.26	Average	
3 q	2422.000	5.10	29.01	37.36	98.00	94.75	54.00	40.75	Average	



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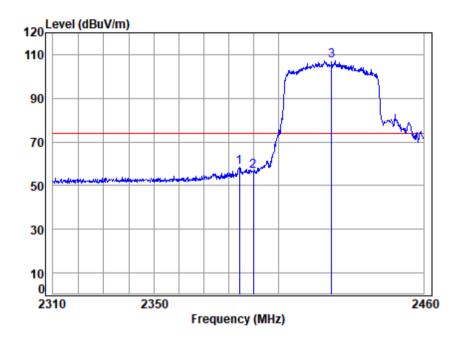


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 46 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT : 2422 Band edge Mode · 2 4G WTET 110X40 Note

ote	: Z.	4G WIF	I IIAX	40						
		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	2384.420	5.07	29.10	37.45	61.64	58.36	74.00	-15.64	Peak	
2	2390.000	5.08	29.10	37.44	59.62	56.36	74.00	-17.64	Peak	
3 a	2422,000	5.10	29.01	37.36	110.50	107.25	74.00	33.25	Peak	



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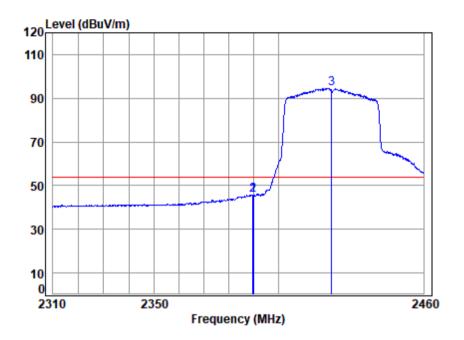


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 47 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT Mode : 2422 Band edge : 2.4G WIFI 11AX40 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	2389.827	5.08	29.10	37.44	48.97	45.71	54.00	-8.29	Average
2	2390.000	5.08	29.10	37.44	48.67	45.41	54.00	-8.59	Average
3 q	2422.000	5.10	29.01	37.36	97.81	94.56	54.00	40.56	Average



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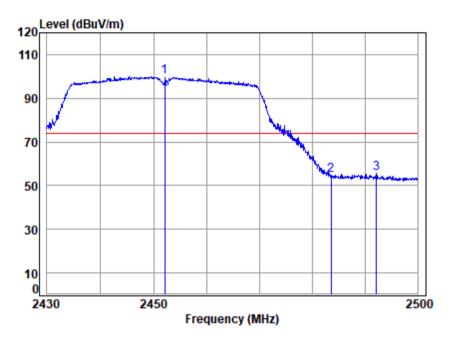


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 48 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT Mode : 2452 Band edge : 2.4G WIFI 11AX40 Note

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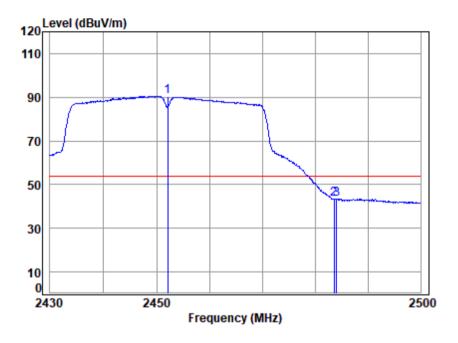


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 49 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT Mode : 2452 Band edge Note : 2.4G WIFI 11AX40

	Freq		Preamp Factor			Remark	
			dB	 		 	_
		-		-	•		
_	2452.000 2483.500					_	
}	2483.935					_	



1 2

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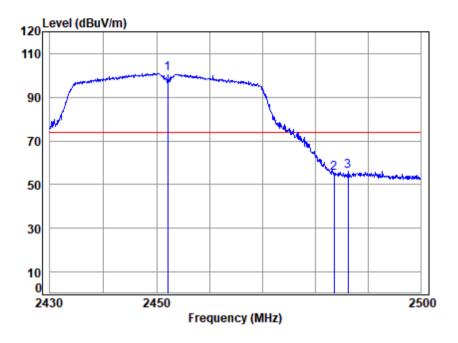


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 50 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT : 2452 Band edge Mode . 2.46 WTFT 11AYAA Note

ore	: Z.	4G WIL	T TIAN	+6						
		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	2452.000	5.13	28.90	37.29	104.17	100.91	74.00	26.91	Peak	
2	2483.500	5.16	28.90	37.22	58.26	55.10	74.00	-18.90	Peak	
3	2486,194	5.16	28.90	37.21	59.30	56.15	74.00	-17.85	Peak	



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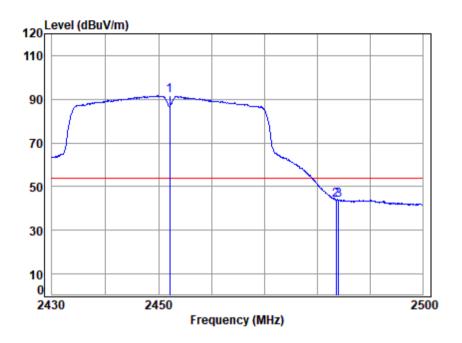


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 51 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT Mode : 2452 Band edge : 2.4G WIFI 11AX40 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	2452.000	5.13	28.90	37.29	94.78	91.52	54.00	37.52	Average
	2483.500	5.16	28.90	37.22	46.99	43.83	54.00	-10.17	Average
	2483.935	5.16	28.90	37.22	47.13	43.97	54.00	-10.03	Average
	Ī	MHz q 2452.000 2483.500	Freq Loss MHz dB q 2452.000 5.13 2483.500 5.16	Freq Loss Factor MHz dB dB/m q 2452.000 5.13 28.90 2483.500 5.16 28.90	Freq Loss Factor Factor MHz dB dB/m dB q 2452.000 5.13 28.90 37.29 2483.500 5.16 28.90 37.22	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV q 2452.000 5.13 28.90 37.29 94.78 2483.500 5.16 28.90 37.22 46.99	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m q 2452.000 5.13 28.90 37.29 94.78 91.52 2483.500 5.16 28.90 37.22 46.99 43.83	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dB dBuV dBuV/m dBuV/m q 2452.000 5.13 28.90 37.29 94.78 91.52 54.00 2483.500 5.16 28.90 37.22 46.99 43.83 54.00	Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB q 2452.000 5.13 28.90 37.29 94.78 91.52 54.00 37.52 2483.500 5.16 28.90 37.22 46.99 43.83 54.00 -10.17 2483.935 5.16 28.90 37.22 47.13 43.97 54.00 -10.03



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 52 of 194

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: 23.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

1.0.2 163t W		our parent
Pre-scan / Final test	Mode Code	Description
Final test	00	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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). 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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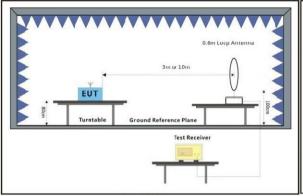


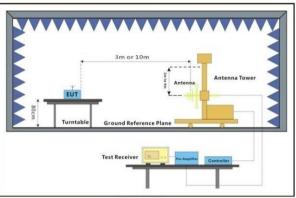
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Report No.: SZCR231100353902

Page: 53 of 194

7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100353902

> Page: 54 of 194

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) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

3) Scan from 9kHz to 1 GHz, 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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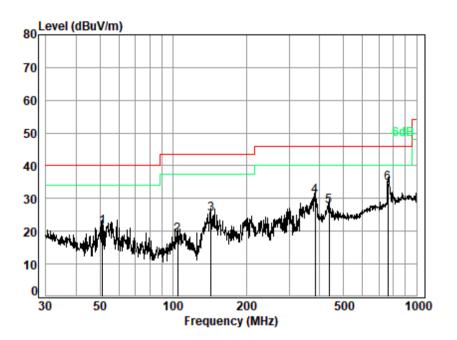


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 55 of 194

Test Mode: 00: Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03539AT

Test Mode: 00

		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	51.121	12.59	0.84	27.75	35.61	21.29	40.00	-18.71	QP
2	104.170	12.23	1.21	27.59	32.90	18.75	43.50	-24.75	QP
3	143.326	12.19	1.42	27.45	38.95	25.11	43.50	-18.39	QP
4	383.932	20.92	2.49	27.26	34.68	30.83	46.00	-15.17	QP
5	437.120	21.07	2.68	27.50	31.48	27.73	46.00	-18.27	QP
6 a	760.704	26.47	3.70	27.73	32.09	34.53	46.00	-11.47	OP



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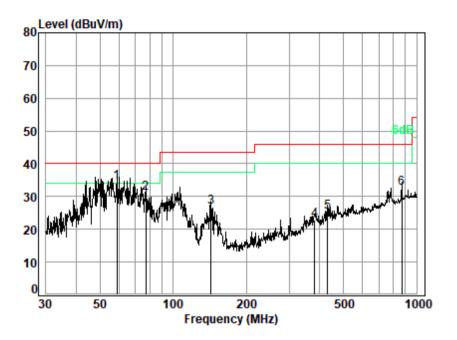


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 56 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No. : 03539AT

869.130 27.65

Test Mode: 00

2 3

4

5

Ant Cable Preamp Limit 0ver Read Loss Factor Freq Factor Level Line Limit Remark Level MHz dB/m dB dBuV dBuV/m dBuV/m dB 58.613 11.63 0.91 27.72 49.52 34.34 40.00 -5.66 OP 77.321 10.39 1.04 27.67 47.18 30.94 40.00 -9.06 OP 143.326 12.19 1.42 27.45 40.55 26.71 43.50 -16.79 QP 381.249 20.93 2.48 27.25 26.62 22.78 46.00 -23.22 QP 431.032 20.96 2.66 27.48 29.09 25.23 46.00 -20.77 OP



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4.01 27.28 28.06 32.44 46.00 -13.56 OP



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 57 of 194

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

Measurement Distance: 3m

Limit:

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

7.9.1 E.U.T. Operation

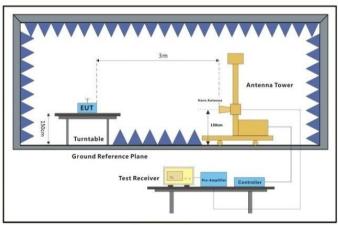
Operating Environment:

Atmospheric Pressure: 1000 mbar Temperature: 20.8 °C Humidity: 58.7 % RH

7.9.2 Test Mode Description

1.3.2 1 C3t IV		
Pre-scan / Final test	Mode Code	Description
Final test	00	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 @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). 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/1 Report No.: SZCR231100353902

> Page: 58 of 194

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.
- 4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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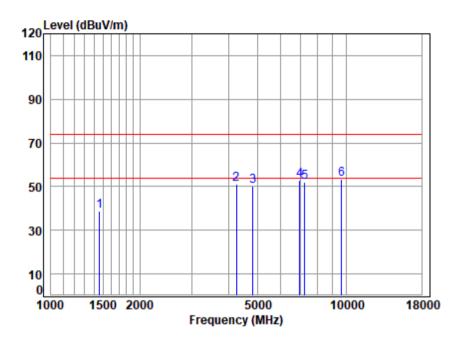


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 59 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT

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	1460.295	4.00	25.69	38.38	47.65	38.96	74.00	-35.04	peak
2	4242.641	6.95	33.80	35.91	46.11	50.95	74.00	-23.05	peak
3	4824.000	7.33	34.40	35.50	44.00	50.23	74.00	-23.77	peak
4	6954.852	8.89	35.79	35.54	43.72	52.86	74.00	-21.14	peak
5	7236.000	9.21	35.70	35.82	42.74	51.83	74.00	-22.17	peak
6 0	9648.000	12.39	37.50	37.45	40.99	53.43	74.00	-20.57	peak



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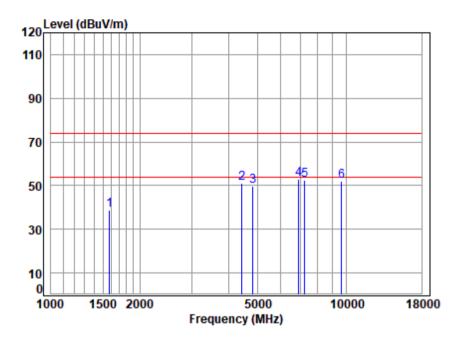


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 60 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT

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		1578.822	4.17	26.88	38.40	46.13	38.78	74.00	-35.22	peak
2		4443.453	7.09	34.28	35.77	45.28	50.88	74.00	-23.12	peak
3		4824.000	7.33	34.40	35.50	43.67	49.90	74.00	-24.10	peak
4	q	6914.763	8.86	35.66	35.52	43.88	52.88	74.00	-21.12	peak
5	Ť	7236.000	9.21	35.70	35.82	43.18	52.27	74.00	-21.73	peak
6		9648.000	12.39	37.50	37.45	39.76	52.20	74.00	-21.80	peak



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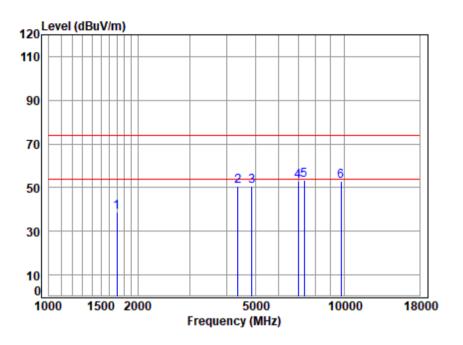


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 61 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT

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		1702.042	4.33	26.22	38.42	46.68	38.81	74.00	-35.19	peak
2		4367.058	7.04	34.54	35.82	44.75	50.51	74.00	-23.49	peak
3		4874.000	7.36	34.60	35.47	44.10	50.59	74.00	-23.41	peak
4		6974.982	8.90	35.75	35.55	43.63	52.73	74.00	-21.27	peak
5	q	7311.000	9.30	35.70	35.89	44.15	53.26	74.00	-20.74	peak
6		9748.000	12.46	37.40	37.43	40.37	52.80	74.00	-21.20	peak



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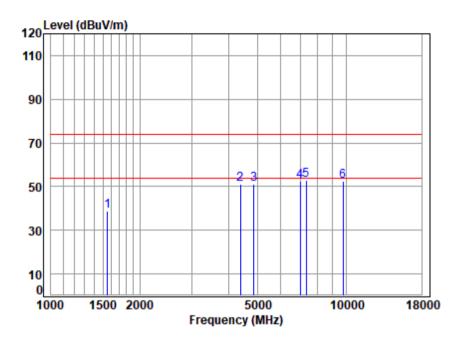


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 62 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT

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		1556.169	4.14	26.98	38.40	45.98	38.70	74.00	-35.30	peak
2		4392.376	7.05	34.74	35.80	45.02	51.01	74.00	-22.99	peak
3		4874.000	7.36	34.60	35.47	44.58	51.07	74.00	-22.93	peak
4		6995.172	8.92	35.71	35.57	43.33	52.39	74.00	-21.61	peak
5	q	7311.000	9.30	35.70	35.89	43.60	52.71	74.00	-21.29	peak
6		9748.000	12.46	37.40	37.43	40.27	52.70	74.00	-21.30	peak



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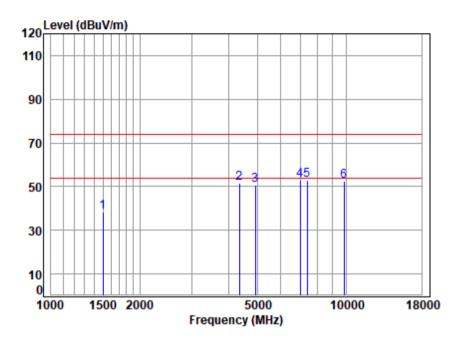


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 63 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

1 214d H111 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		1503.119	4.07	26.81	38.39	46.03	38.52	74.00	-35.48	peak
2		4354.454	7.03	34.44	35.83	45.85	51.49	74.00	-22.51	peak
3		4924.000	7.39	34.65	35.44	44.16	50.76	74.00	-23.24	peak
4		6974.982	8.90	35.75	35.55	43.67	52.77	74.00	-21.23	peak
5	q	7386.000	9.39	35.77	35.97	43.79	52.98	74.00	-21.02	peak
6		9848.000	12.53	37.20	37.40	39.94	52.27	74.00	-21.73	peak



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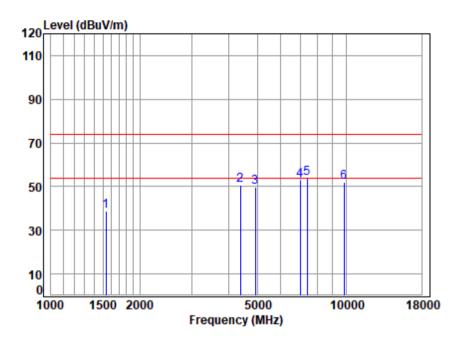


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 64 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

		Freq			Preamp Factor		Level			Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1533.841	4.11	26.94	38.39	46.22	38.88	74.00	-35.12	peak
2		4379.699	7.04	34.64	35.81	44.80	50.67	74.00	-23.33	peak
3		4924.000	7.39	34.65	35.44	43.09	49.69	74.00	-24.31	peak
4		6995.172	8.92	35.71	35.57	43.72	52.78	74.00	-21.22	peak
5	q	7386.000	9.39	35.77	35.97	44.56	53.75	74.00	-20.25	peak
6	Ī	9848.000	12.53	37.20	37.40	39.49	51.82	74.00	-22.18	peak



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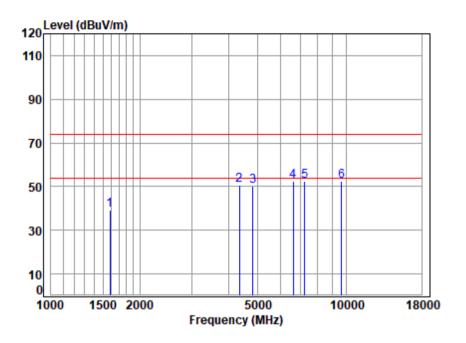


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 65 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT

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	1587.975	4.18	26.85	38.40	46.50	39.13	74.00	-34.87	peak
2	4354.454	7.03	34.44	35.83	45.08	50.72	74.00	-23.28	peak
3	4824.000	7.33	34.40	35.50	43.96	50.19	74.00	-23.81	peak
4	6621.375	8.65	35.26	35.33	44.00	52.58	74.00	-21.42	peak
5	7236.000	9.21	35.70	35.82	43.53	52.62	74.00	-21.38	peak
6 0	9648.000	12.39	37.50	37.45	40.24	52.68	74.00	-21.32	peak



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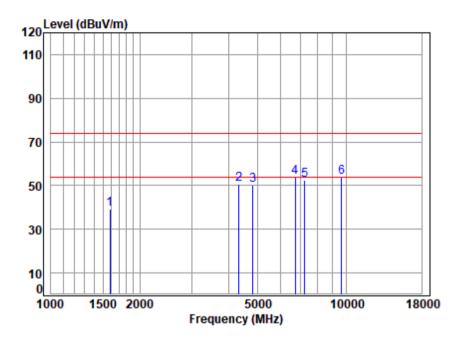


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 66 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT

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		1587.975	4.18	26.85	38.40	46.63	39.26	74.00	-34.74	peak
2		4341.886	7.02	34.34	35.84	45.00	50.52	74.00	-23.48	peak
3		4824.000	7.33	34.40	35.50	43.82	50.05	74.00	-23.95	peak
4		6717.762	8.72	35.20	35.39	45.15	53.68	74.00	-20.32	peak
5		7236.000	9.21	35.70	35.82	43.16	52.25	74.00	-21.75	peak
6	q	9648.000	12.39	37.50	37.45	41.49	53.93	74.00	-20.07	peak



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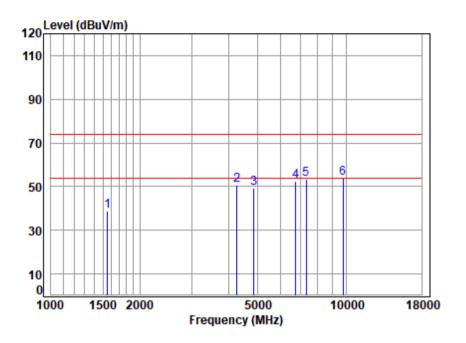


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 67 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT

Mode : 2437 TX RSE

: 2.4G WIFI 11G

		. 2.	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		1556.169	4.14	26.98	38.40	46.11	38.83	74.00	-35.17	peak
2		4267.237	6.97	33.87	35.89	45.67	50.62	74.00	-23.38	peak
3		4874.000	7.36	34.60	35.47	42.70	49.19	74.00	-24.81	peak
4		6756.708	8.75	35.21	35.42	44.01	52.55	74.00	-21.45	peak
5		7311.000	9.30	35.70	35.89	44.23	53.34	74.00	-20.66	peak
6	q	9748.000	12.46	37.40	37.43	41.28	53.71	74.00	-20.29	peak



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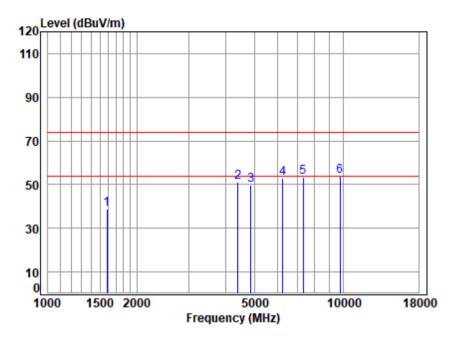


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 68 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT

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	1587.975	4.18	26.85	38.40	46.33	38.96	74.00	-35.04	peak
2	4405.090	7.06	34.74	35.79	44.92	50.93	74.00	-23.07	peak
3	4874.000	7.36	34.60	35.47	43.12	49.61	74.00	-24.39	peak
4	6249.464	8.37	34.90	35.08	44.95	53.14	74.00	-20.86	peak
5	7311.000	9.30	35.70	35.89	44.46	53.57	74.00	-20.43	peak
6	q 9748.000	12.46	37.40	37.43	41.20	53.63	74.00	-20.37	peak



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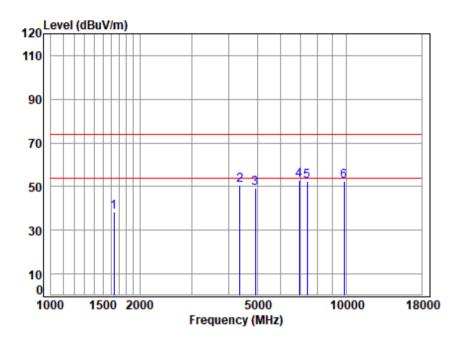


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 69 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT

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	1634.543	4.25	26.45	38.41	45.90	38.19	74.00	-35.81	peak
2	4367.058	7.04	34.54	35.82	44.96	50.72	74.00	-23.28	peak
3	4924.000	7.39	34.65	35.44	42.88	49.48	74.00	-24.52	peak
4 q	6934.778	8.87	35.74	35.53	43.89	52.97	74.00	-21.03	peak
5	7386.000	9.39	35.77	35.97	43.46	52.65	74.00	-21.35	peak
6	9848.000	12.53	37.20	37.40	39.97	52.30	74.00	-21.70	peak



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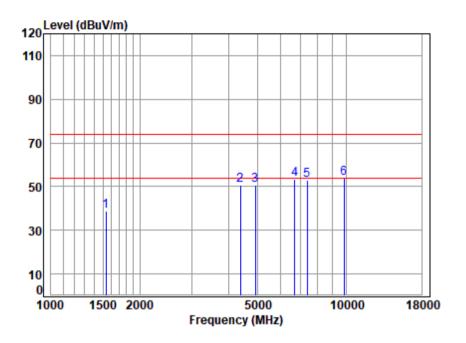


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 70 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT

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		1533.841	4.11	26.94	38.39	46.11	38.77	74.00	-35.23	peak
2		4392.376	7.05	34.74	35.80	44.52	50.51	74.00	-23.49	peak
3		4924.000	7.39	34.65	35.44	43.83	50.43	74.00	-23.57	peak
4		6698.373	8.71	35.20	35.38	44.68	53.21	74.00	-20.79	peak
5		7386.000	9.39	35.77	35.97	43.72	52.91	74.00	-21.09	peak
6	q	9848.000	12.53	37.20	37.40	41.48	53.81	74.00	-20.19	peak



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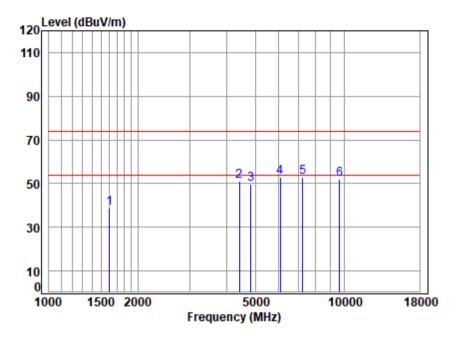


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 71 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT

Mode : 2412 TX RSE

: 2.4G WIFI 11AX20

	Freq			Preamp Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1606.441	4.21	26.74	38.40	46.09	38.64	74.00	-35.36	peak
2	4417.841	7.07	34.59	35.78	45.09	50.97	74.00	-23.03	peak
3	4824.000	7.33	34.40	35.50	43.42	49.65	74.00	-24.35	peak
4 0	6071.417	8.23	35.04	34.95	44.77	53.09	74.00	-20.91	peak
5	7236.000	9.21	35.70	35.82	43.72	52.81	74.00	-21.19	peak
6	9648.000	12.39	37.50	37.45	39.49	51.93	74.00	-22.07	peak



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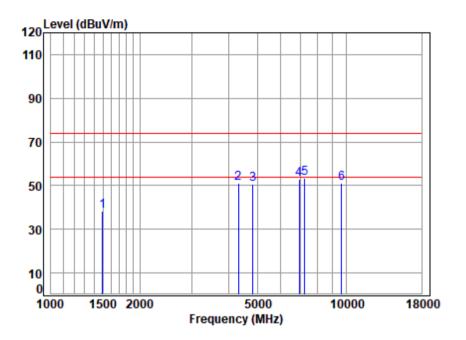


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 72 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT

Mode : 2412 TX RSE

: 2.4G WIFI 11AX20

I Elifa Will III/WEO										
		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	1494.455	4.05	26.64	38.39	46.21	38.51	74.00	-35.49	peak	
2	4316.859	7.00	34.13	35.86	45.99	51.26	74.00	-22.74	peak	
3	4824.000	7.33	34.40	35.50	44.49	50.72	74.00	-23.28	peak	
4	6934.778	8.87	35.74	35.53	43.75	52.83	74.00	-21.17	peak	
5	q 7236.000	9.21	35.70	35.82	44.14	53.23	74.00	-20.77	peak	
6	9648.000	12.39	37.50	37.45	38.85	51.29	74.00	-22.71	peak	



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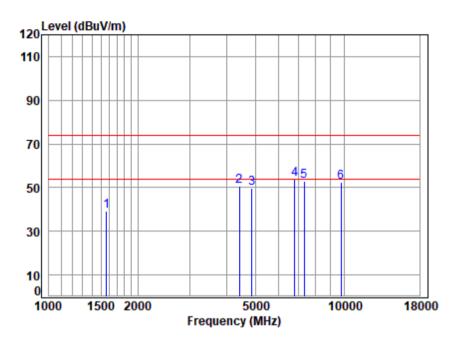


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 73 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT

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	1569.721	4.16	26.92	38.40	46.37	39.05	74.00	-34.95	peak
2	4417.841	7.07	34.59	35.78	44.74	50.62	74.00	-23.38	peak
3	4874.000	7.36	34.60	35.47	43.36	49.85	74.00	-24.15	peak
4 q	6795.879	8.78	35.29	35.44	45.11	53.74	74.00	-20.26	peak
5	7311.000	9.30	35.70	35.89	43.92	53.03	74.00	-20.97	peak
6	9748.000	12.46	37.40	37.43	40.19	52.62	74.00	-21.38	peak



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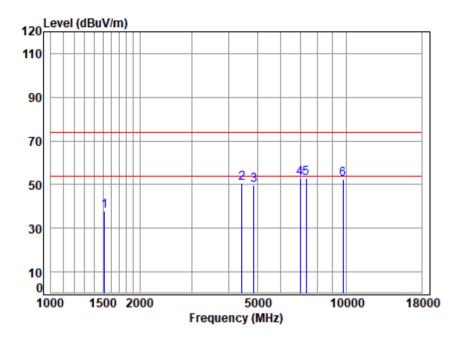


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 74 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT

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	1516.210	4.08	26.86	38.39	45.42	37.97	74.00	-36.03	peak
2	4430.628	7.08	34.43	35.77	45.03	50.77	74.00	-23.23	peak
3	4874.000	7.36	34.60	35.47	43.41	49.90	74.00	-24.10	peak
4	6995.172	8.92	35.71	35.57	43.64	52.70	74.00	-21.30	peak
5	q 7311.000	9.30	35.70	35.89	43.98	53.09	74.00	-20.91	peak
6	9748.000	12.46	37.40	37.43	40.07	52.50	74.00	-21.50	peak



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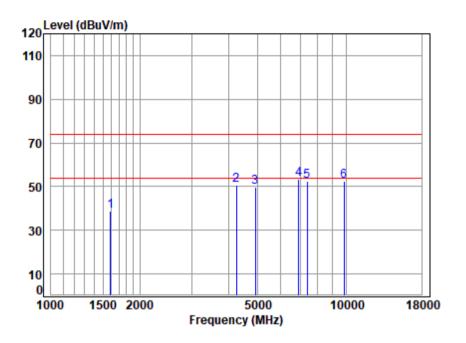


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 75 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT

Mode : 2462 TX RSE

: 2.4G WIFI 11AX20

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1592.571	4.19	26.83	38.40	45.98	38.60	74.00	-35.40	peak
2 4254.921	6.96	33.82	35.90	45.56	50.44	74.00	-23.56	peak
3 4924.000	7.39	34.65	35.44	43.10	49.70	74.00	-24.30	peak
4 q 6914.763	8.86	35.66	35.52	44.17	53.17	74.00	-20.83	peak
5 7386.000	9.39	35.77	35.97	43.50	52.69	74.00	-21.31	peak
6 9848.000	12.53	37.20	37.40	40.13	52.46	74.00	-21.54	peak



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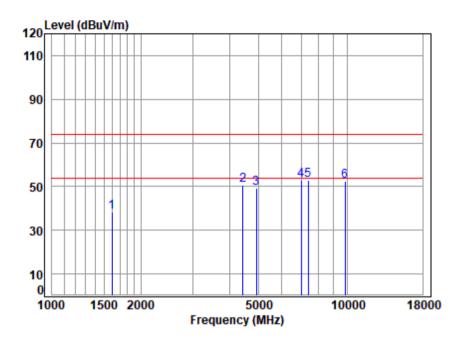


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 76 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT

Mode : 2462 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		1597.181	4.20	26.81	38.40	45.93	38.54	74.00	-35.46	peak
2		4443.453	7.09	34.28	35.77	45.09	50.69	74.00	-23.31	peak
3		4924.000	7.39	34.65	35.44	42.48	49.08	74.00	-24.92	peak
4	q	6974.982	8.90	35.75	35.55	44.03	53.13	74.00	-20.87	peak
5		7386.000	9.39	35.77	35.97	43.63	52.82	74.00	-21.18	peak
6		9848.000	12.53	37.20	37.40	39.97	52.30	74.00	-21.70	peak



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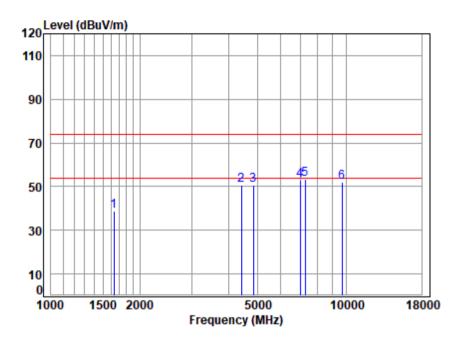


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 77 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT

Mode : 2422 TX RSE

: 2.4G WIFI 11AX40

		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	1634.543	4.25	26.45	38.41	46.59	38.88	74.00	-35.12	peak
2	4417.841	7.07	34.59	35.78	44.58	50.46	74.00	-23.54	peak
3	4844.000	7.34	34.48	35.49	44.50	50.83	74.00	-23.17	peak
4	6974.982	8.90	35.75	35.55	43.89	52.99	74.00	-21.01	peak
5	q 7266.000								•
	9688.000								•



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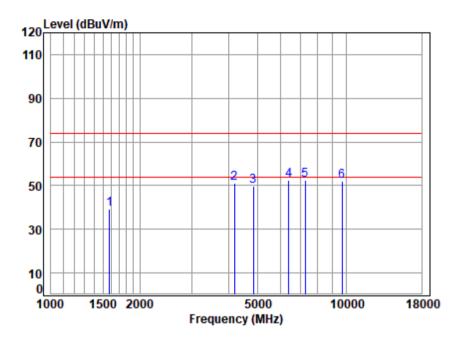


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 78 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT

Mode : 2422 TX RSE

: 2.4G WIFI 11AX40

		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	1578.822	4.17	26.88	38.40	46.56	39.21	74.00	-34.79	peak
2	4181.768	6.91	33.80	35.96	46.18	50.93	74.00	-23.07	peak
3	4844.000	7.34	34.48	35.49	43.59	49.92	74.00	-24.08	peak
4	6395.654	8.48	35.17	35.18	44.09	52.56	74.00	-21.44	peak
5	q 7266.000	9.25	35.70	35.85	43.53	52.63	74.00	-21.37	peak
6	9688.000	12.42	37.50	37.44	39.39	51.87	74.00	-22.13	peak



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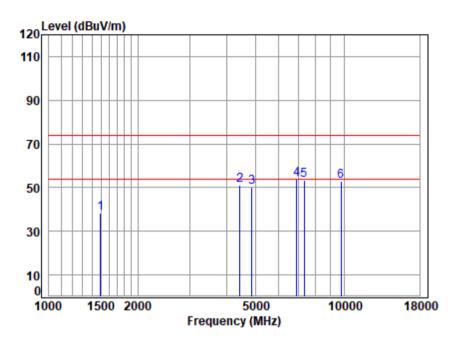


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 79 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX40

			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		1494.455	4.05	26.64	38.39	46.18	38.48	74.00	-35.52	peak
2		4430.628	7.08	34.43	35.77	45.15	50.89	74.00	-23.11	peak
3		4874.000	7.36	34.60	35.47	43.78	50.27	74.00	-23.73	peak
4	q	6914.763	8.86	35.66	35.52	44.79	53.79	74.00	-20.21	peak
5	Ī	7311.000	9.30	35.70	35.89	44.31	53.42	74.00	-20.58	peak
6		9748.000	12.46	37.40	37.43	40.52	52.95	74.00	-21.05	peak



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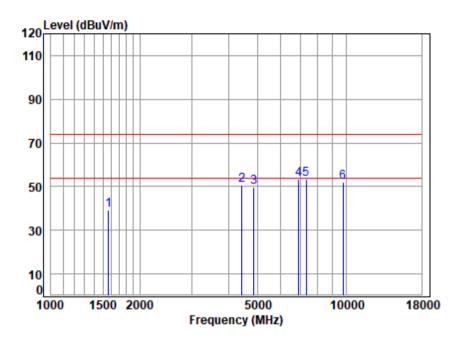


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 80 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX40

			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		1569.721	4.16	26.92	38.40	46.47	39.15	74.00	-34.85	peak
2		4430.628	7.08	34.43	35.77	44.69	50.43	74.00	-23.57	peak
3		4874.000	7.36	34.60	35.47	43.41	49.90	74.00	-24.10	peak
4		6894.806	8.85	35.59	35.50	44.28	53.22	74.00	-20.78	peak
5	q	7311.000	9.30	35.70	35.89	44.38	53.49	74.00	-20.51	peak
6		9748.000	12.46	37.40	37.43	39.71	52.14	74.00	-21.86	peak



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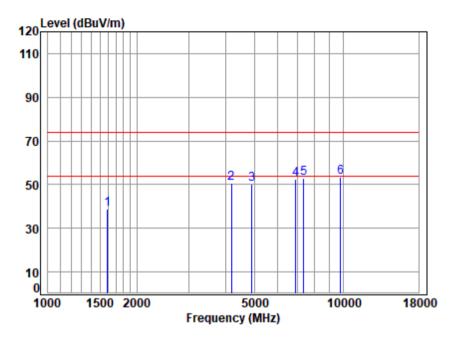


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 81 of 194

Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 03539AT\03538AT

Mode : 2452 TX RSE

: 2.4G WIFI 11AX40

			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	4.19	26.83	38.40	46.37	38.99	74.00	-35.01	peak
2		4181.768	6.91	33.80	35.96	46.04	50.79	74.00	-23.21	peak
3		4904.000	7.37	34.69	35.45	43.41	50.02	74.00	-23.98	peak
4		6914.763	8.86	35.66	35.52	43.63	52.63	74.00	-21.37	peak
5		7356.000	9.36	35.71	35.94	43.99	53.12	74.00	-20.88	peak
6	q	9808.000	12.50	37.28	37.41	40.94	53.31	74.00	-20.69	peak



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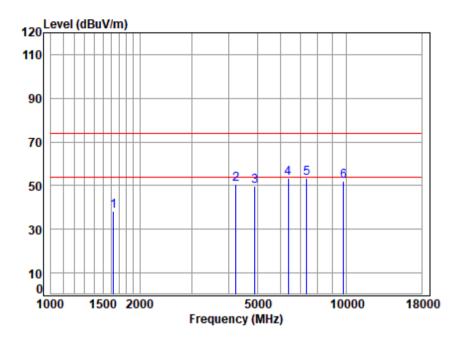


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 82 of 194

Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 03539AT\03538AT

Mode : 2452 TX RSE

: 2.4G WIFI 11AX40

			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		1629.825	4.24	26.50	38.41	46.18	38.51	74.00	-35.49	peak
2		4230.396	6.94	33.80	35.92	45.78	50.60	74.00	-23.40	peak
3		4904.000	7.37	34.69	35.45	43.11	49.72	74.00	-24.28	peak
4		6377.195								•
5	q	7356.000	9.36	35.71	35.94	44.47	53.60	74.00	-20.40	peak
6		9808.000	12.50	37.28	37.41	39.76	52.13	74.00	-21.87	peak



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100353902

> Page: 83 of 194

Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2311003539AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix – External and Internal Photos for SZCR2311003539AT



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR231100353902

> Page: 84 of 194

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	/	/	8.414	8.470	99.34	0.03	0.04			
802.11b	MIMO	2437	/	/	8.417	8.473	99.34	0.03	0.04			
		2462	/	/	8.417	8.473	99.34	0.03	0.04			
		2412	/	/	1.396	1.453	96.08	0.17	0.04			
802.11g	MIMO	2437	/	/	1.396	1.453	96.08	0.17	0.00			
		2462	/	/	1.397	1.453	96.15	0.17	0.00			
000 44:		2412	/	/	1.308	1.365	95.82	0.19	0.04			
802.11n (HT20)	MIMO	2437	/	/	1.308	1.365	95.82	0.19	0.03			
(11120)		2462	/	/	1.308	1.365	95.82	0.19	0.03			
000 44:		2422	/	/	0.648	0.705	91.91	0.37	0.07			
802.11n (HT40)	MIMO	2437	/	/	0.648	0.705	91.91	0.37	0.06			
(111 10)		2452	/	/	0.648	0.705	91.91	0.37	0.04			
000 44		2412	RU242	Left	1.027	1.083	94.83	0.23	0.03			
802.11ax (HEW20)	MIMO	2437	RU242	Left	1.027	1.084	94.74	0.23	0.03			
(1127720)		2462	RU242	Left	1.027	1.084	94.74	0.23	0.03			
000 44 =		2422	RU484	Left	0.313	0.369	84.82	0.71	0.04			
802.11ax (HEW40)	MIMO	2437	RU484	Left	0.312	0.369	84.55	0.73	0.07			
(,0)		2452	RU484	Left	0.313	0.369	84.82	0.71	0.04			



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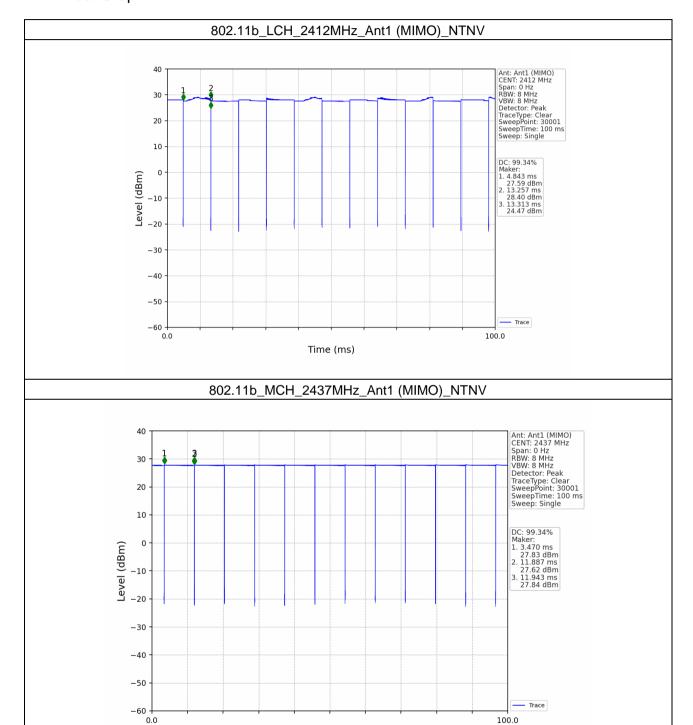


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 85 of 194

1.1.2 Test Graph





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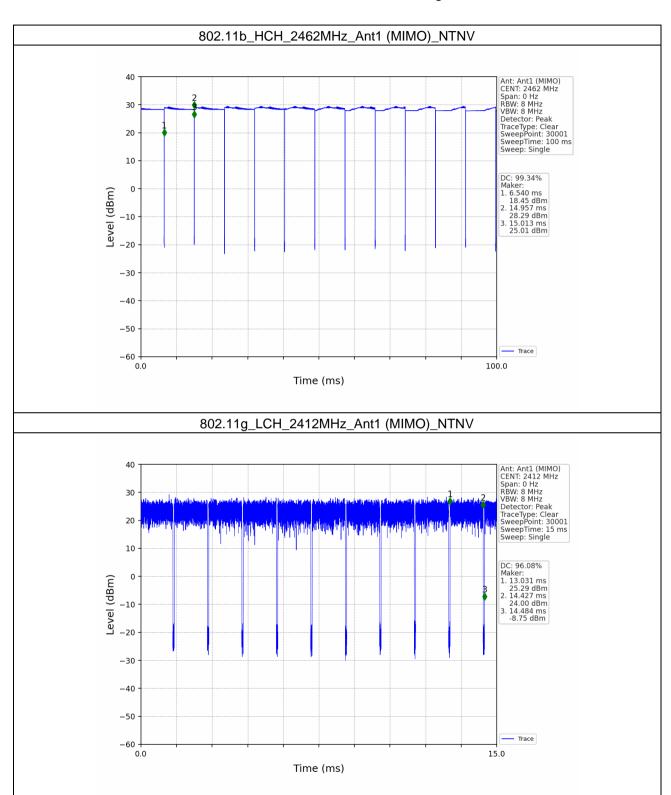
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 86 of 194





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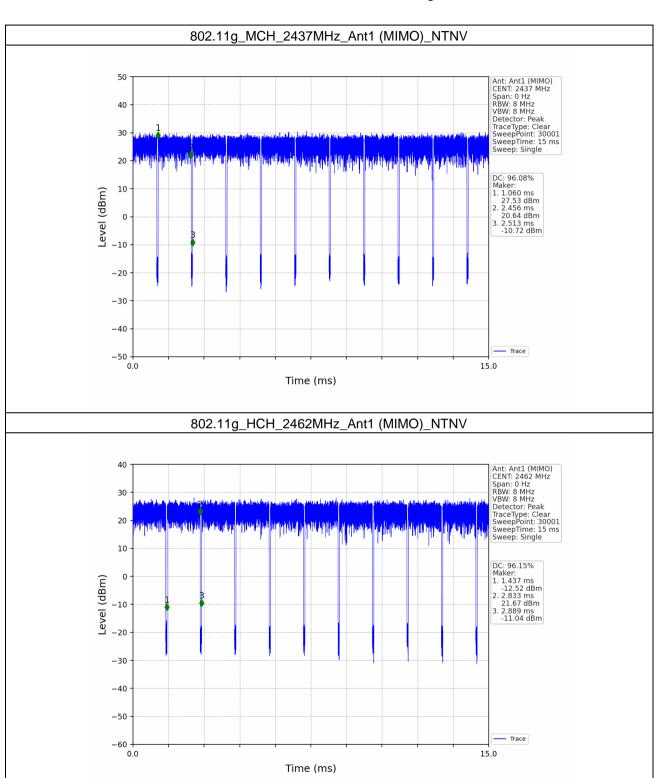
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 87 of 194





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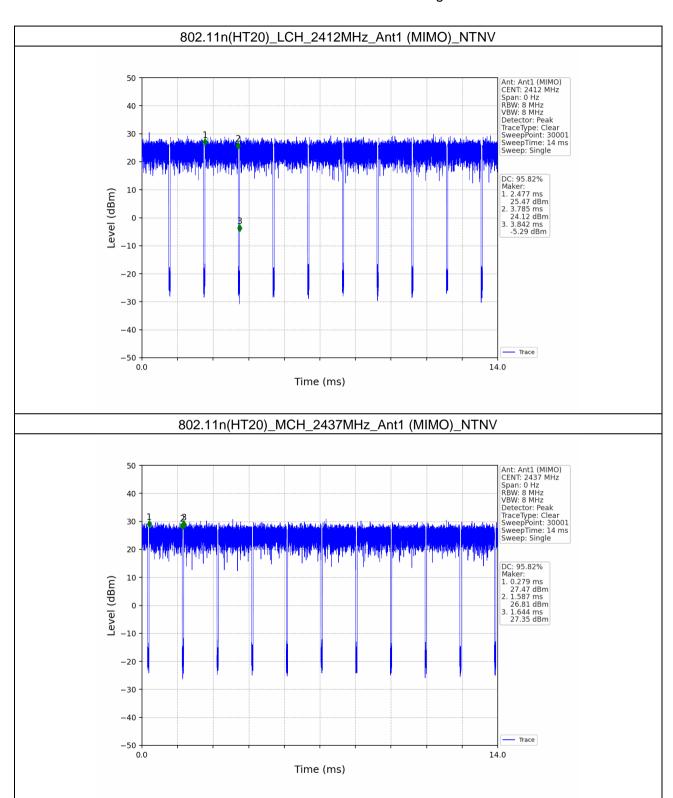
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 88 of 194





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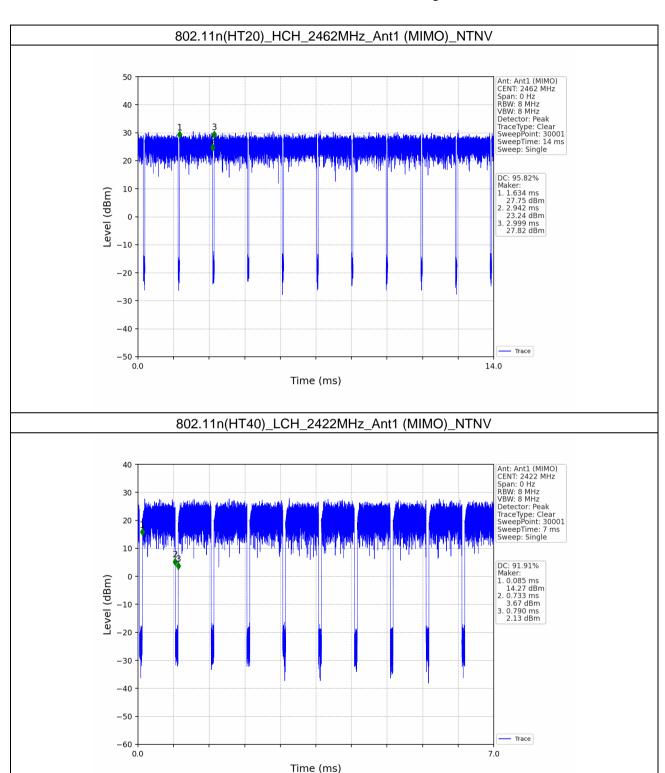
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 89 of 194





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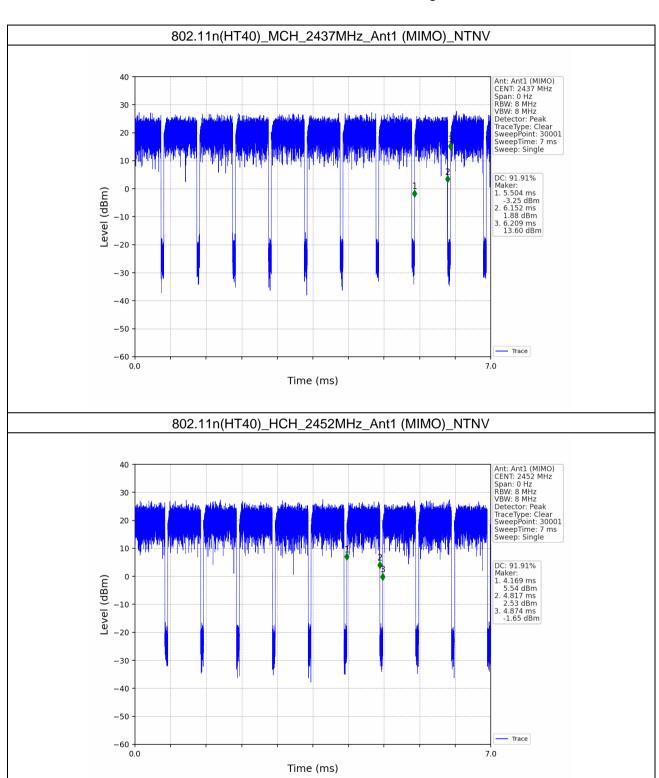
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 90 of 194





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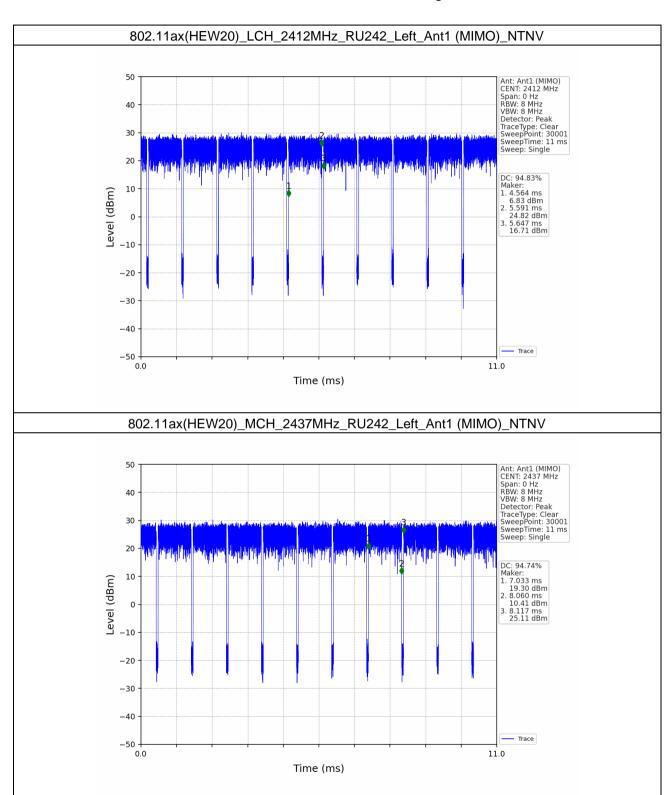
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Report No.: SZCR231100353902

Page: 91 of 194





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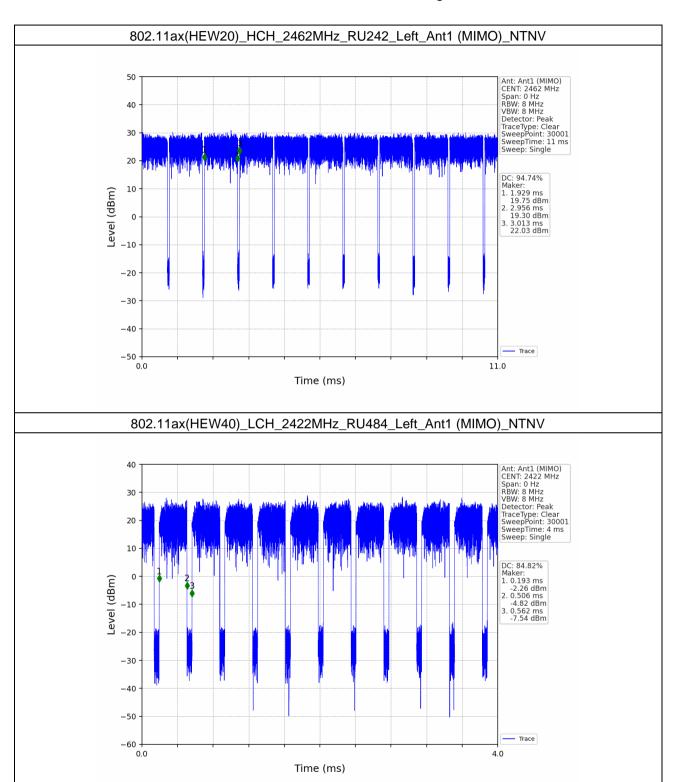
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Report No.: SZCR231100353902

Page: 92 of 194





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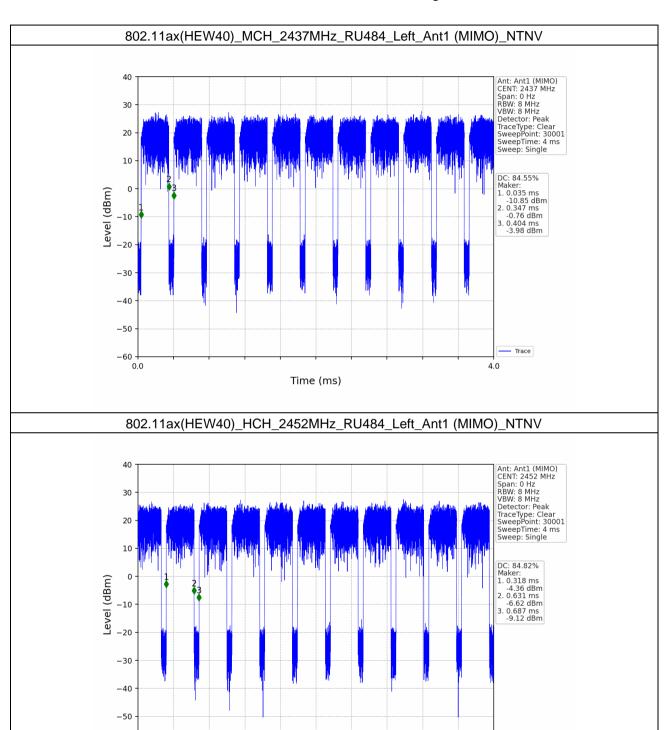


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Report No.: SZCR231100353902

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Page: 93 of 194





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> Page: 94 of 194

2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode TX	TX	Frequency	DII	RU	A N.I.T.	99% Occupied E	Bandwidth (MHz)	Manaliat
iviode	Туре	(MHz)	RU	Pos	ANT	Result	Limit	Verdict
		2412	/	/	1	12.608	/	Pass
802.11b	MIMO	2437	/	/	1	12.527	/	Pass
		2462	/	/	1	12.832	/	Pass
		2412	/	/	1	17.710	/	Pass
802.11g	MIMO	2437	/	/	1	17.817	/	Pass
		2462	/	/	1	17.764	/	Pass
000 44		2412	/	/	1	18.592	/	Pass
802.11n (HT20)	MIMO	2437	/	/	1	19.868	/	Pass
(11120)		2462	/	/	1	19.975	/	Pass
000 44		2422	/	/	1	37.236	/	Pass
802.11n (HT40)	MIMO	2437	/	/	1	37.237	/	Pass
(11140)		2452	/	/	1	37.340	/	Pass
222.44		2412	RU242	Left	1	19.044	/	Pass
802.11ax (HEW20)	MIMO	2437	RU242	Left	1	19.444	/	Pass
(1127720)		2462	RU242	Left	1	19.533	/	Pass
200.44		2422	RU484	Left	1	38.124	/	Pass
802.11ax (HEW40)	MIMO	2437	RU484	Left	1	38.243	/	Pass
(1127740)		2452	RU484	Left	1	38.192	/	Pass



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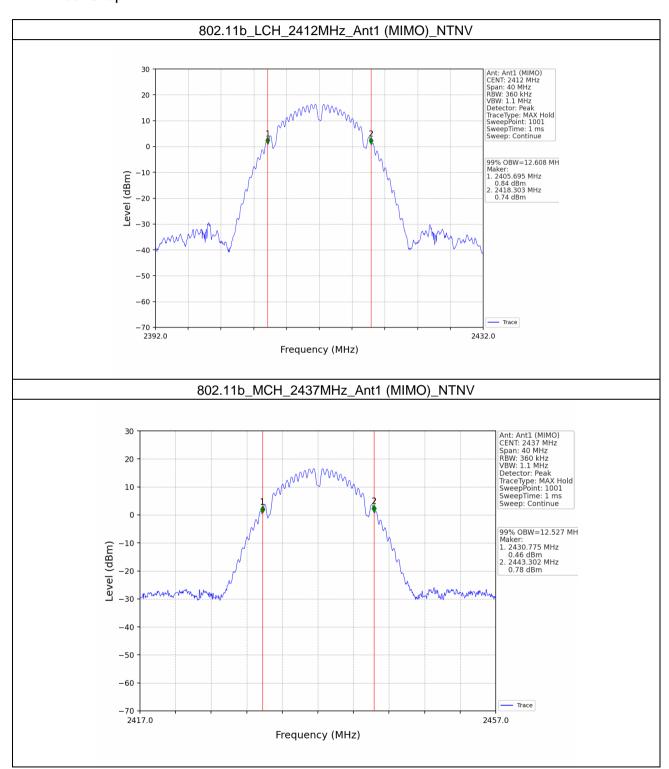


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Report No.: SZCR231100353902

Page: 95 of 194

2.1.2 Test Graph





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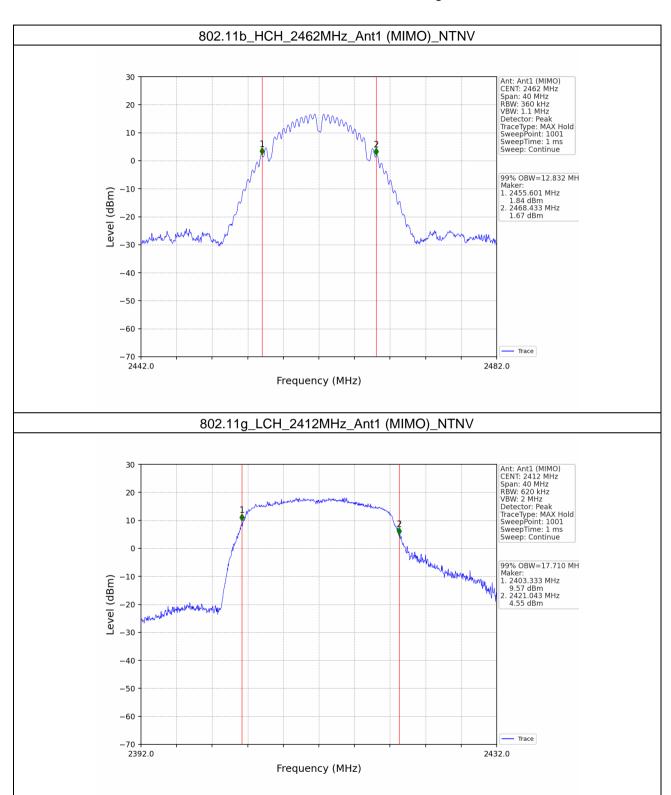
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Page: 96 of 194





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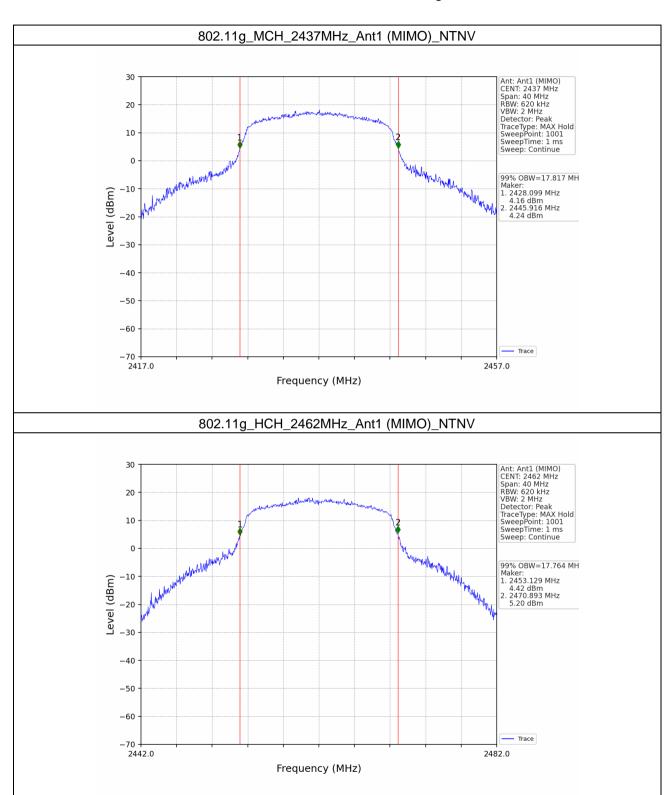
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Report No.: SZCR231100353902

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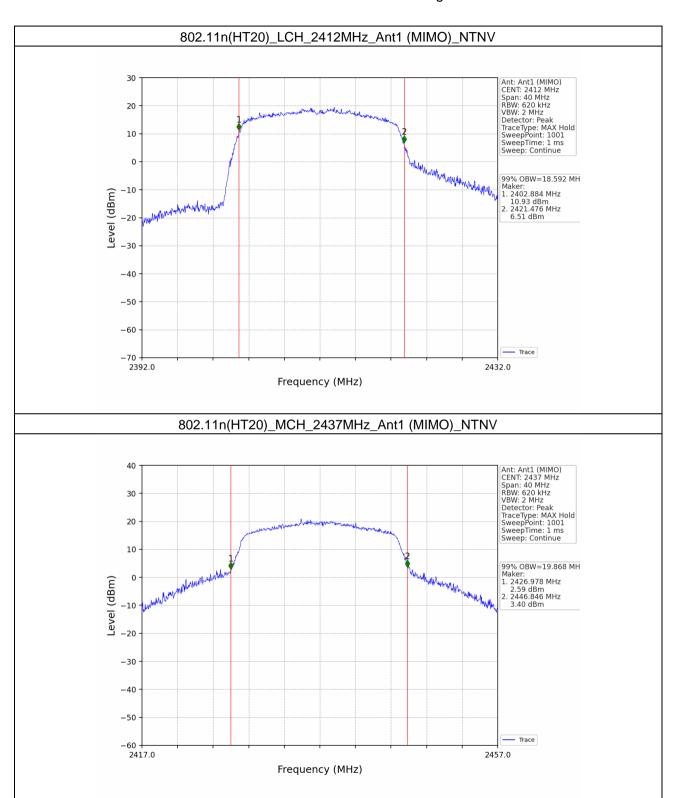
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Report No.: SZCR231100353902

Page: 98 of 194





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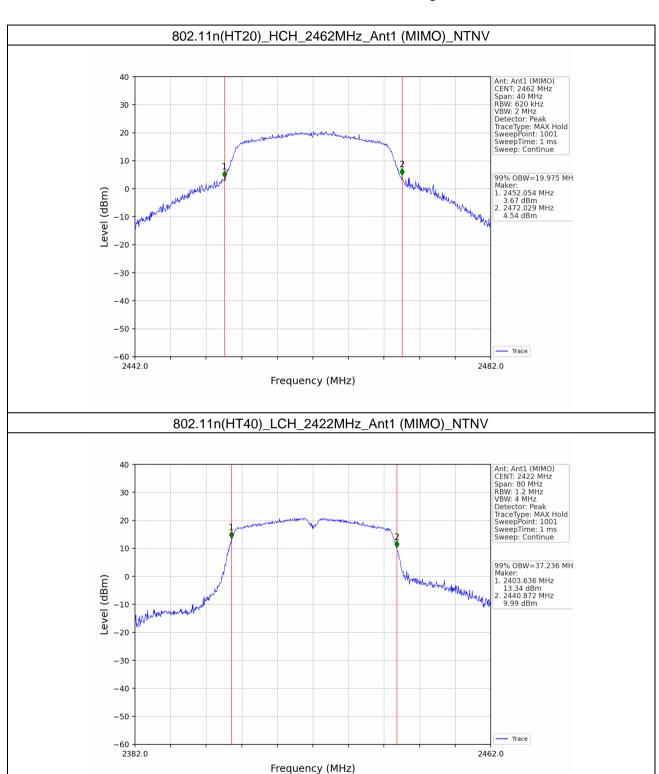
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Report No.: SZCR231100353902

Page: 99 of 194





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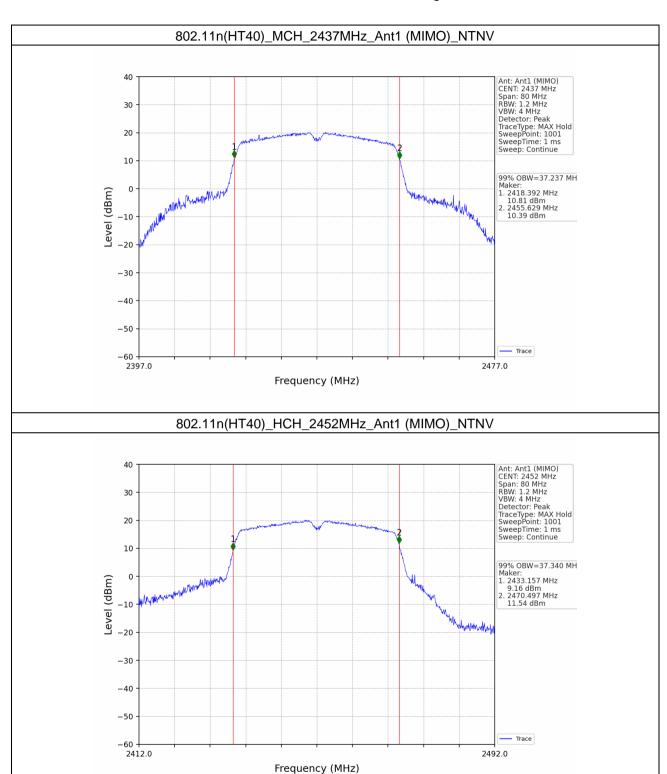
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 100 of 194





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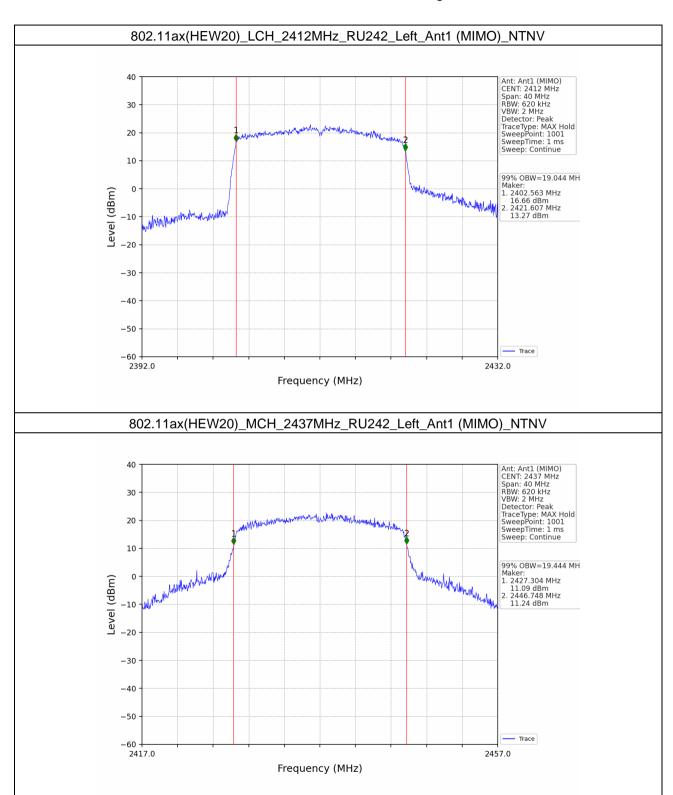
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 101 of 194





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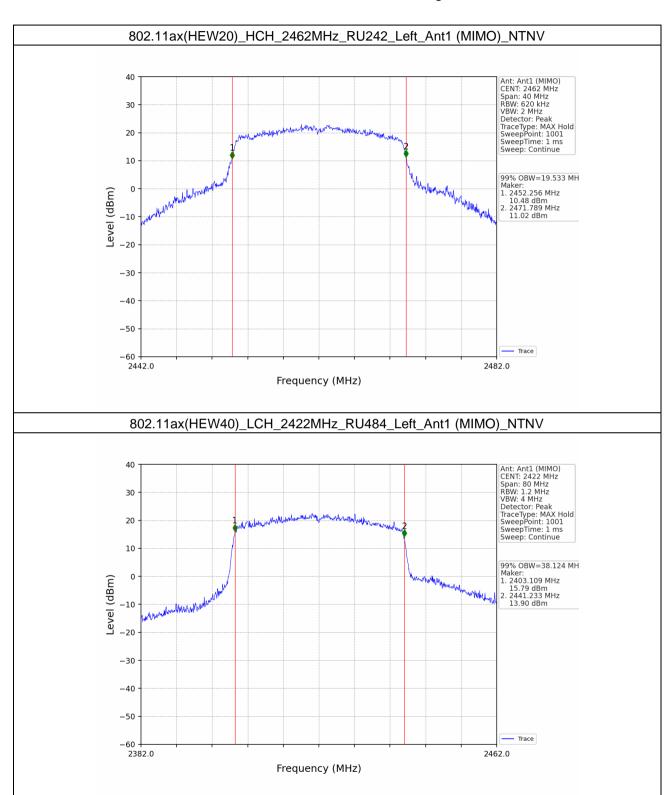
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Report No.: SZCR231100353902

Page: 102 of 194





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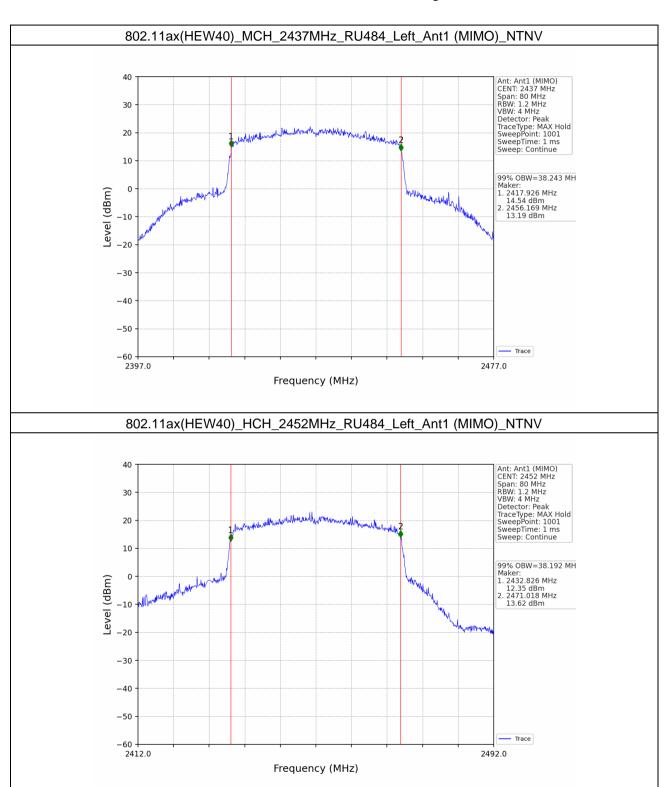
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 103 of 194





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 104 of 194

2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANIT	6dB Bandv	Market	
					ANT	Result	Limit	Verdict
802.11b	MIMO	2412	/	/	1	8.083	>=0.5	Pass
		2437	/	/	1	8.054	>=0.5	Pass
		2462	/	/	1	8.084	>=0.5	Pass
802.11g	MIMO	2412	/	/	1	15.164	>=0.5	Pass
		2437	/	/	1	15.144	>=0.5	Pass
		2462	/	/	1	15.152	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	15.161	>=0.5	Pass
		2437	/	/	1	15.156	>=0.5	Pass
		2462	/	/	1	15.149	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	35.131	>=0.5	Pass
		2437	/	/	1	35.155	>=0.5	Pass
		2452	/	/	1	35.132	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	18.045	>=0.5	Pass
		2437	RU242	Left	1	15.867	>=0.5	Pass
		2462	RU242	Left	1	15.408	>=0.5	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	35.595	>=0.5	Pass
		2437	RU484	Left	1	36.050	>=0.5	Pass
		2452	RU484	Left	1	35.797	>=0.5	Pass



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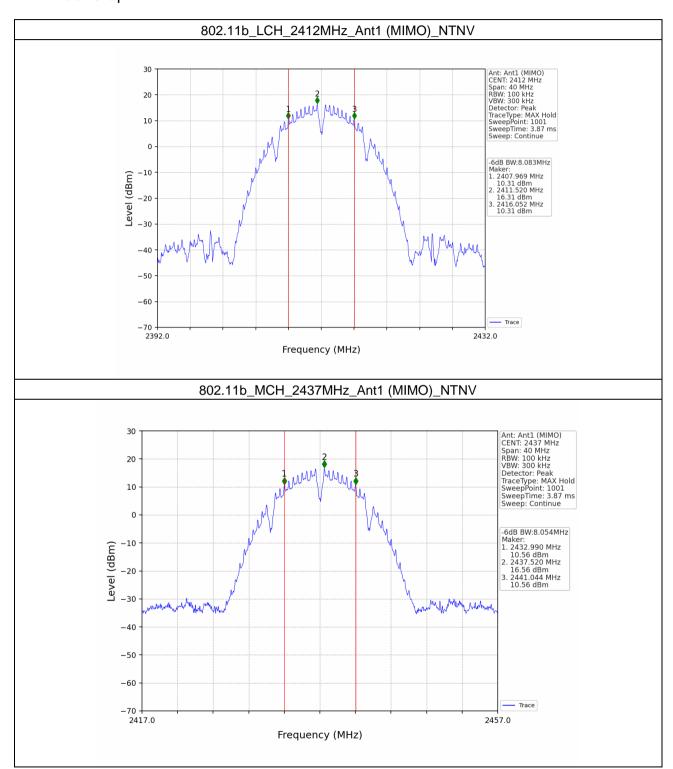


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 105 of 194

2.2.2 Test Graph





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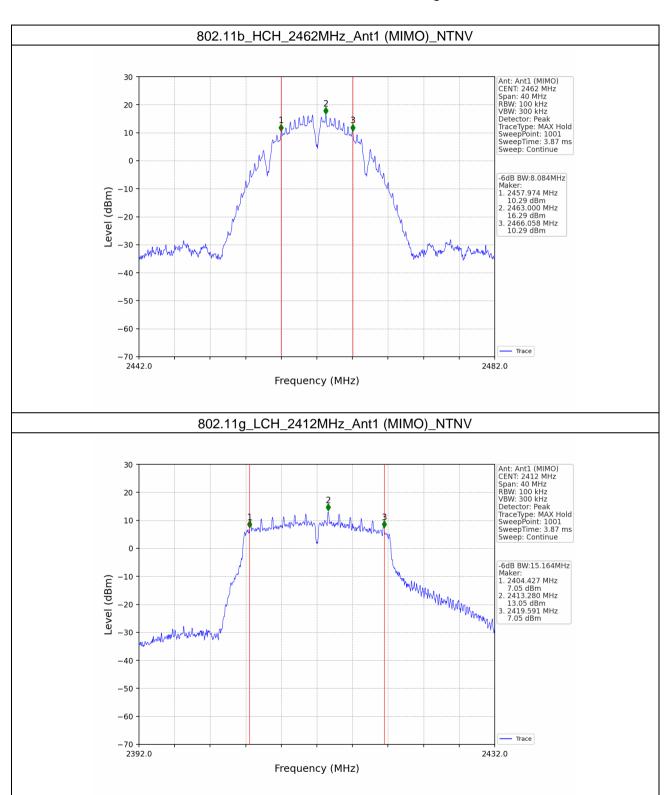
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 106 of 194





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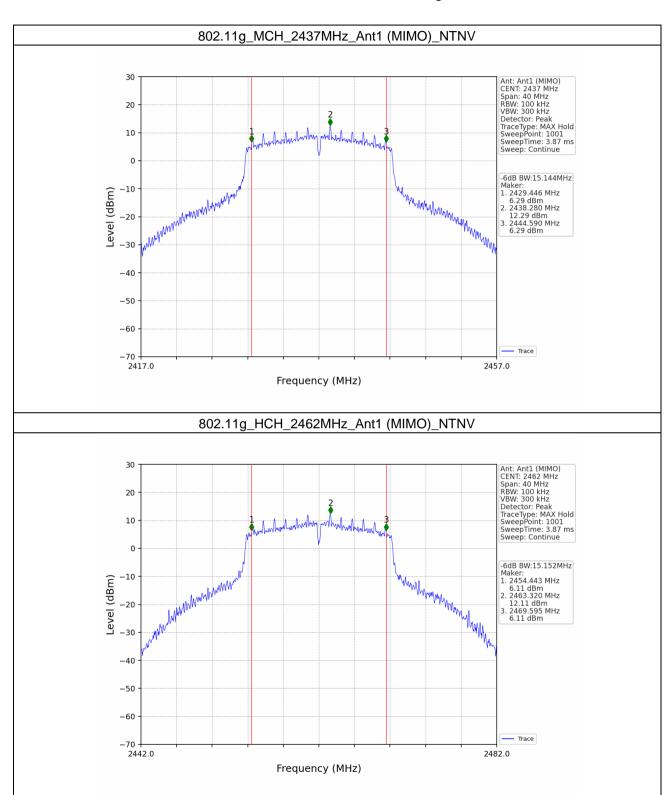
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 107 of 194





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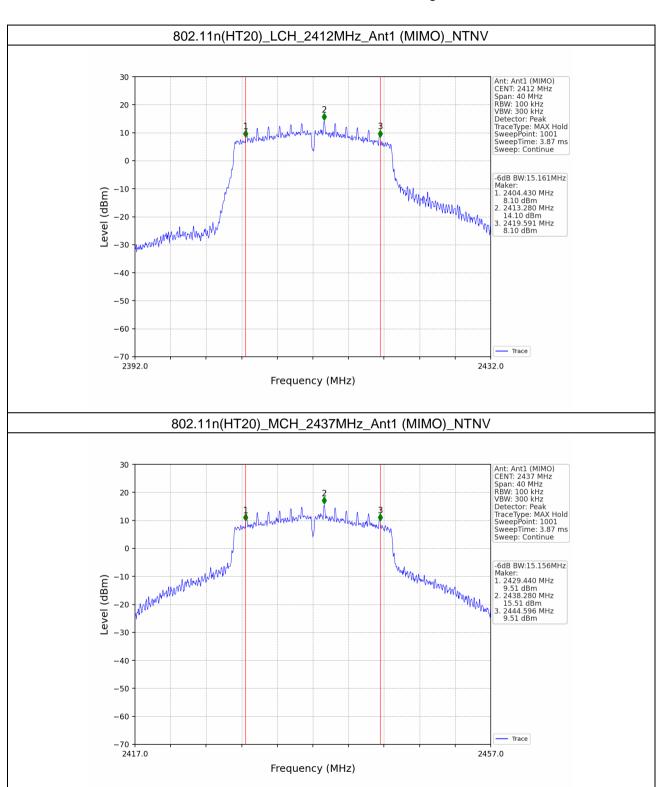
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 108 of 194





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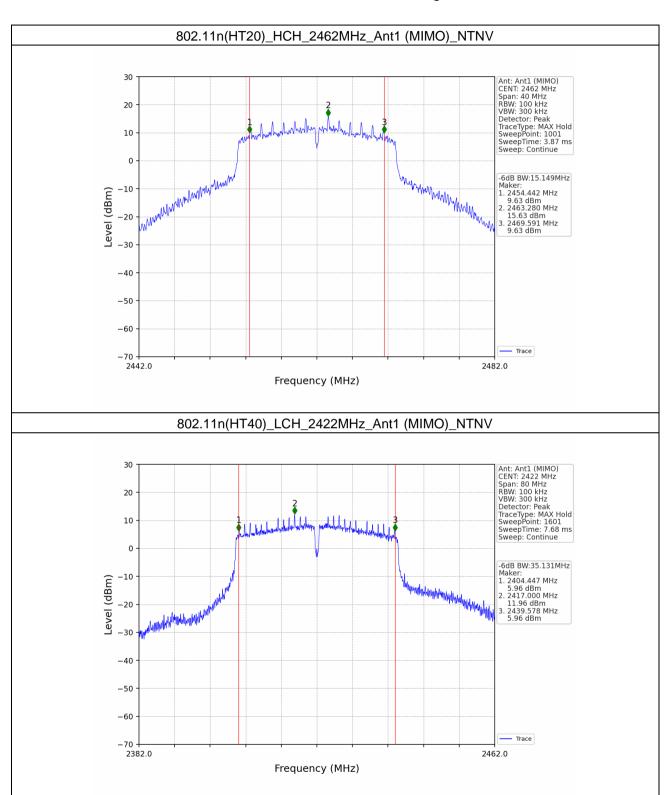
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 109 of 194





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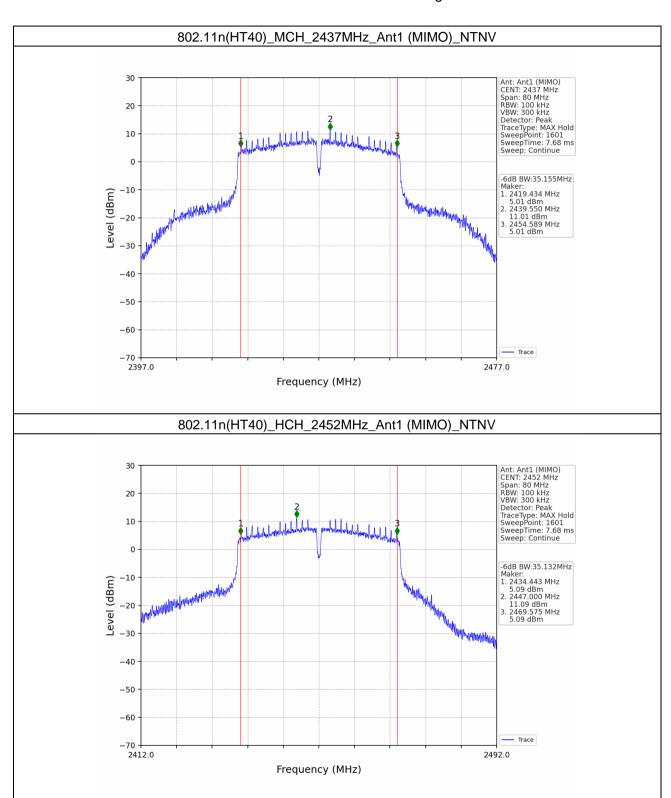
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 110 of 194





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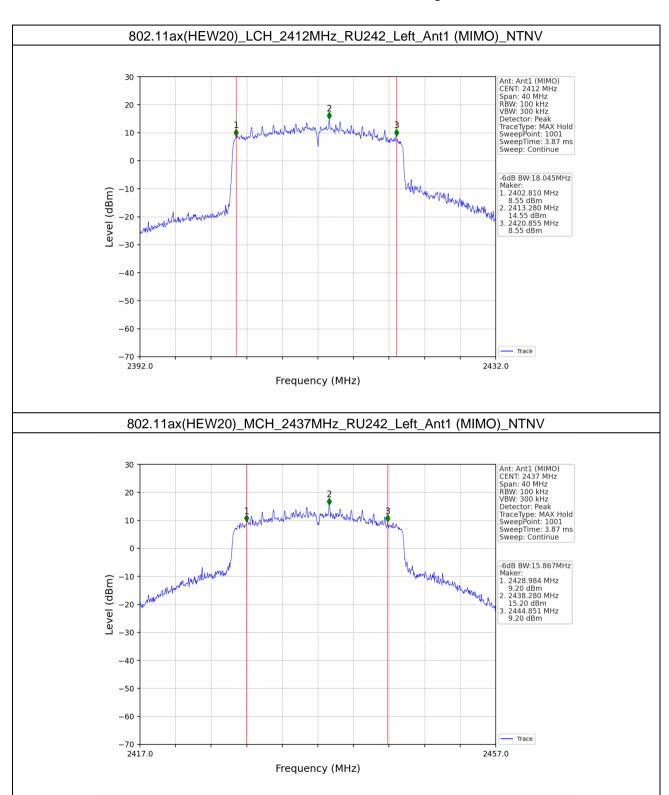
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 111 of 194





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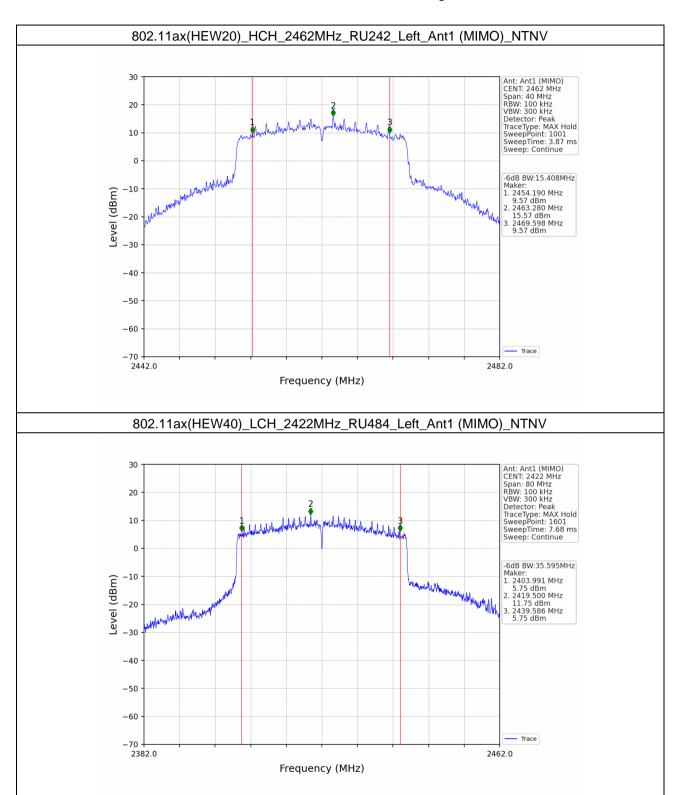
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 112 of 194





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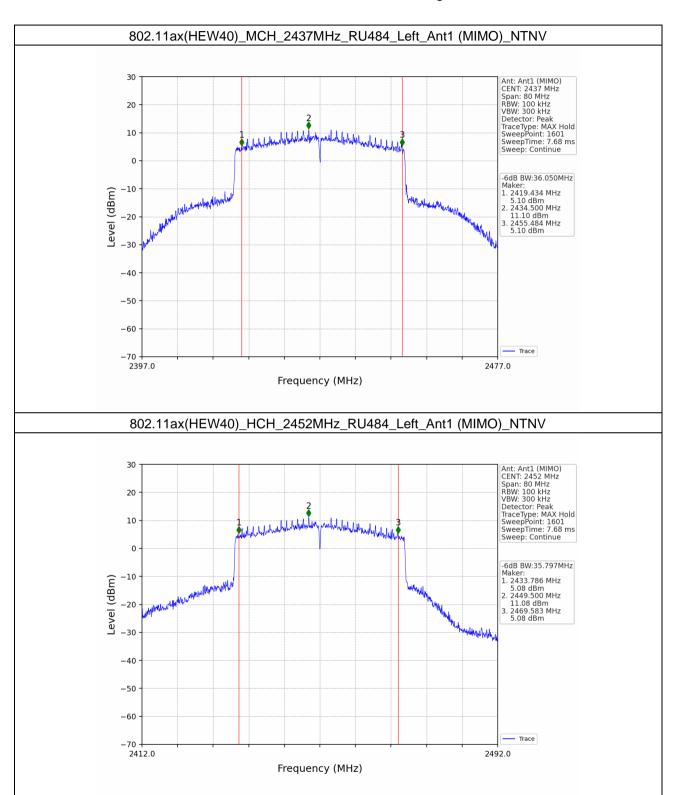
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 113 of 194





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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231100353902

Page: 114 of 194

3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum	Verdict			
					ANT1	ANT2	MIMO	Limit	
802.11b	MIMO	2412	/	/	23.90	24.34	27.14	<=30	Pass
		2437	/	/	24.09	24.24	27.18	<=30	Pass
		2462	/	/	24.26	23.96	27.12	<=30	Pass
802.11g	MIMO	2412	/	/	24.48	24.63	27.57	<=30	Pass
		2437	/	/	24.84	24.95	27.91	<=30	Pass
		2462	/	/	24.78	24.54	27.67	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	24.48	24.61	27.56	<=30	Pass
		2437	/	/	24.61	24.75	27.69	<=30	Pass
		2462	/	/	24.88	24.48	27.69	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	23.67	23.92	26.81	<=30	Pass
		2437	/	/	24.00	24.12	27.07	<=30	Pass
		2452	/	/	23.84	23.94	26.90	<=30	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	24.56	24.75	27.67	<=30	Pass
		2437	RU242	Left	24.68	24.82	27.76	<=30	Pass
		2462	RU242	Left	24.94	24.54	27.75	<=30	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	23.82	23.99	26.92	<=30	Pass
		2437	RU484	Left	24.05	24.19	27.13	<=30	Pass
		2452	RU484	Left	23.92	24.03	26.99	<=30	Pass

Note1: Antenna Gain: Ant1: 2.80dBi; Ant2: 2.50dBi

Note2: Directional Gain: 2.80dBi



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