

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR230700233112

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TEST REPORT

Application No.: SZCR2307002331AT

Applicant: Icomera AB

Address of Applicant: Odinsgatan 28, Gothenburg, SE-411 03, Sweden

Manufacturer: Icomera AB

Address of Manufacturer: Odinsgatan 28, Gothenburg, SE-411 03, Sweden

Factory: Thundercomm Technology Co., Ltd

Address of Factory: No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongging,

China, 401122

Equipment Under Test (EUT):

Type of Equipment/EUT **Access Point**

name:

Model Name: А2-е

CDE000832-1, CDE000832-2 **Type Number:**

Brand Name: ICOMERA

HW Version: R1 SW Version: IWP5

FCC ID: 2AAC2-A2E

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

2024-04-19 **Date of Receipt:**

Date of Test: 2024-04-20 to 2024-10-23

2024-10-24 Date of Issue:

Test Result: Pass*

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-10-24		Original			

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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Test Summary 2

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 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, Subpart C 15.247	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		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	

Remark:

Model No.: A2-e.

There are two versions of A2-e. Type number CDE000832-1 with PoE and CDE000832-2 with Bypass

Only Type Number CDE000832-1 was tested in this report, since the electrical circuit design, layout, internal wiring and components used were similar.

The difference being that CDE000832-1 can be powered by both PoE and DC power, whereas CDE000832-2 can only be powered by DC.

Remark: All configuration has been tested, only worst case of test data is recorded in the report.



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General Information

Details of E.U.T. 4.1

Product brief description:	Wireless Access Point, works as a mobile, high performance Wireless Access Point, foremost intended for rail
Power supply:	DC24V/110V, 3A
	Or PoE input: DC37-57V, 1.7A
Blockchain Verified QR Code:	
Type of Equipment/ EUT name:	Access Point
Model Name:	A2-e
Type Number:	CDE000832-1, CDE000832-2
Brand Name:	ICOMERA
HW Version:	R1
SW Version:	IWP5
Cable Loss (for RF conducted test):	0.7dB
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:	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
	802.11ax: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20)/ax(HEW20):11
indifficer of Charmers.	802.11n(HT40)/ax(HEW40):7
Channel Spacing:	5MHz
Antenna Type:	Dipole Antenna
Antenna Gain:	Ant1: 3.69dBi, Ant2: 3.51Bi, Ant3: 3.41dBi, Ant4: 3.58dBi

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.		
			-		
The EUT has been tested as an independent unit.					



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Conducted 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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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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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	2024-03-19	2025-03-18
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	2024-07-06 2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19 2024-09-18	2024-09-18 2025-09-17
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-19	2025-03-18

RF conducted					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-31	2025-03-30
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-20	2025-03-19
DC Dower Cupply	Chromo	62012P-80-60	OFMOAA AA	2023-10-19	2024-10-18
DC Power Supply	Chroma	62012P-60-60	SEM011-11	2024-10-18	2025-10-17
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2024-03-19	2025-03-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Cooxial Cabla	202	NI/A	CEM024 04	2023-07-07	2024-07-06
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-30	2025-03-29
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-20	2025-03-19

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-19	2025-03-18
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system	A gilont	920474	SEMONE SE	2023-09-19	2024-09-18
amplifier	Agilent	83017A	SEM005-25	2024-09-18	2025-09-17
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A



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Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10 2024-08-09	2024-08-09 2026-08-08
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-19	2025-03-18

Radiated Spurious Emissions Below 1GHz						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18	
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19 2024-10-18	2024-10-18 2025-10-17	
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-19	2025-03-18	
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	2024-07-06 2025-07-05	

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-19	2025-03-18
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
amplifier	Agilent	03017A	3LIVI003-23	2024-09-18	2025-09-17
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	NI/A	SEM026-01	2023-07-07	2024-07-06
Cuaxiai Cable	363	N/A	3EIVIU26-01	2024-07-06	2025-07-05



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General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature	deli	8838	SEM002 22	2023-07-28	2024-07-27
Indicator	deli	0030	SEM002-32	2024-07-27	2025-07-26
Humidity/ Temperature	doli	0020	SEM002 22	2023-07-28	2024-07-27
Indicator	deli	8838	SEM002-33	2024-07-27	2025-07-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-22	2025-03-21



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Radio Spectrum Technical Requirement 6

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is connected externally to the AP. It is always professionally installed and permanently attached to the vehicle or building.

The best case gain of the antenna is Ant1: 3.69dBi, Ant2: 3.51Bi, Ant3: 3.41dBi, Ant4: 3.58dBi, directional gain:9.71dBi.

Antenna location: Refer to external photo.



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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 amission/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:

Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1005 mbar

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. Only the data of worst case is recorded in the report.



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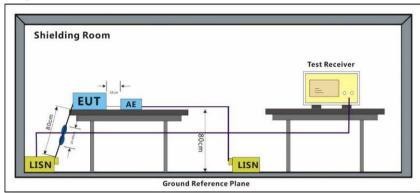


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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



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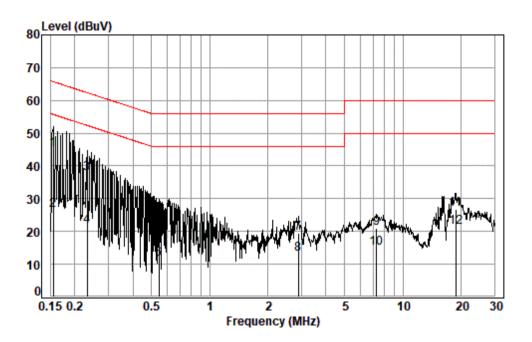


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Test Mode: 00; Line: Live line



: Shielding Room

Condition: Line Job No. : 02331AT

Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1548	0.02	9.89	35.19	45.10	65.74	-20.64	QP
2	0.1548	0.02	9.89	16.63	26.54	55.74	-29.20	Average
3	0.2329	0.03	9.96	27.67	37.66	62.35	-24.69	QP
4	0.2329	0.03	9.96	11.46	21.45	52.35	-30.90	Average
5	0.5464	0.04	9.99	13.74	23.77	56.00	-32.23	QP
6	0.5464	0.04	9.99	1.46	11.49	46.00	-34.51	Average
7	2.8845	0.07	10.04	9.43	19.54	56.00	-36.46	QP
8	2.8845	0.07	10.04	2.96	13.07	46.00	-32.93	Average
9	7.3290	0.13	10.11	10.89	21.13	60.00	-38.87	QP
10	7.3290	0.13	10.11	4.63	14.87	50.00	-35.13	Average
11	18.8205	0.26	10.21	16.18	26.65	60.00	-33.35	QP
12 *	18.8205	0.26	10.21	10.85	21.32	50.00	-28.68	Average



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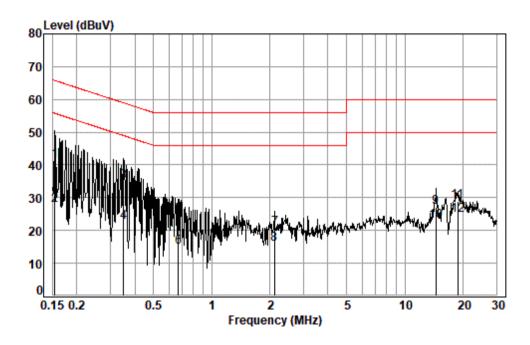


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Test Mode: 00; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 02331AT

Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1540	0.02	9.88	31.48	41.38	65.78	-24.40	QP
2	0.1540	0.02	9.88	17.69	27.59	55.78	-28.19	Average
3 *	0.3502	0.03	9.92	24.96	34.91	58.96	-24.05	QP
4	0.3502	0.03	9.92	12.47	22.42	48.96	-26.54	Average
5	0.6719	0.05	9.97	14.61	24.63	56.00	-31.37	QP
6	0.6719	0.05	9.97	4.76	14.78	46.00	-31.22	Average
7	2.1213	0.07	9.96	10.74	20.77	56.00	-35.23	QP
8	2.1213	0.07	9.96	5.85	15.88	46.00	-30.12	Average
9	14.5171	0.22	10.24	16.64	27.10	60.00	-32.90	QP
10	14.5171	0.22	10.24	12.26	22.72	50.00	-27.28	Average
11	18.8205	0.26	10.27	18.47	29.00	60.00	-31.00	QP
12 *	18.8205	0.26	10.27	14.01	24.54	50.00	-25.46	Average



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7.2 Conducted 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 modulation			

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

7 2 2 Test Mode Description

1.2.2 1 CSt IV	7.2.2 Test mode bescription			
Pre-scan / Final test	Mode Code	Description		
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.		



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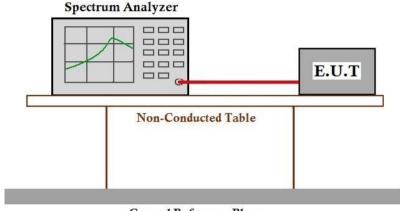
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7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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

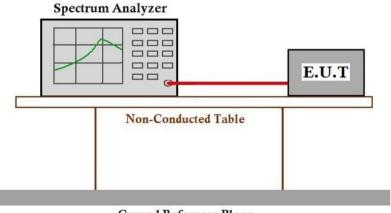
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 20 °C Humidity: 45 % 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. 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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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

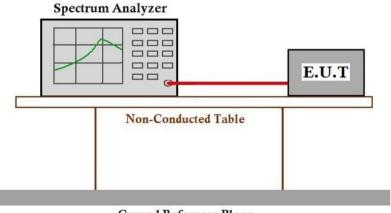
Operating Environment:

Temperature: 20 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

7.4.2 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. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 20 Humidity: % RH Atmospheric Pressure: 1020 mbar

7.5.2 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. Only the data of worst case is recorded in the report.



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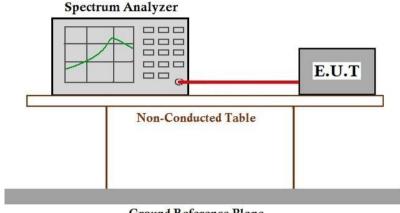
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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 20 Humidity: % RH Atmospheric Pressure: 1020 mbar

7.6.2 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. Only the data of worst case is recorded in the report.



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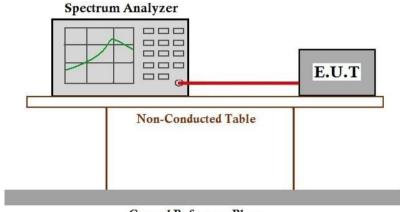


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7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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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: 24.4 °C Humidity: 55.9 % RH Atmospheric Pressure: 995 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. Only the data of worst case is recorded in the report.



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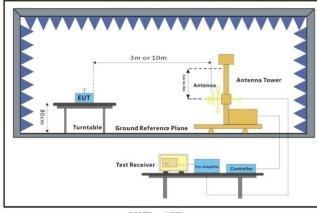
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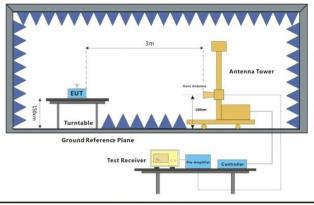


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7.7.3 Test Setup Diagram





Above 1GHz 30MHz-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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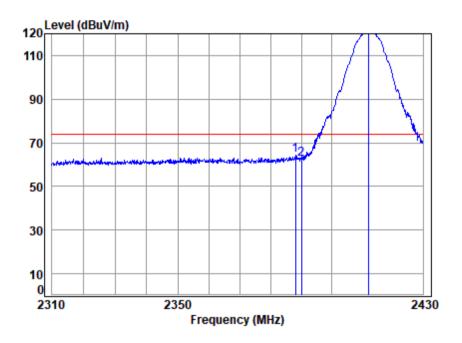


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.032	3.66	29.10	0.00	31.74	64.50	74.00	-9.50	peak
2	2390.000	3.66	29.10	0.00	29.82	62.58	74.00	-11.42	peak
3 p	2412.000	3.68	29.05	0.00	88.49	121.22	74.00	47.22	peak



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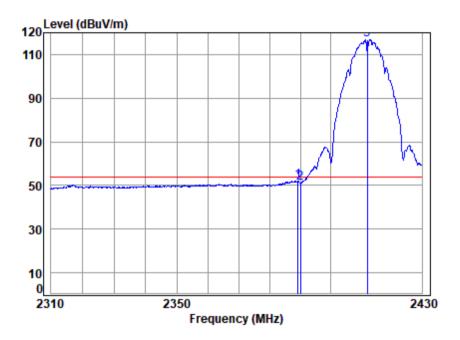


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.242	3.66	29.10	0.00	19.33	52.09	54.00	-1.91	Average
2	2390.000	3.66	29.10	0.00	18.27	51.03	54.00	-2.97	Average
3 q	2412.000	3.68	29.05	0.00	84.23	116.96	54.00	62.96	Average



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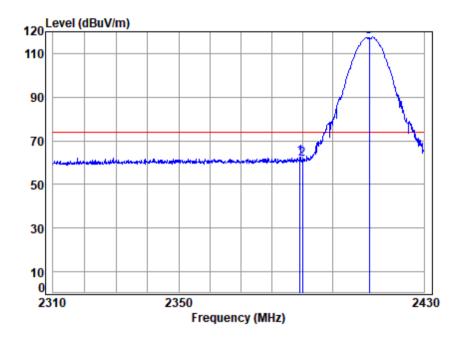


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2412 Band edge · 2 4G WTFT 11B Note

ote	. Z.	4G MIL	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.242	3.66	29.10	0.00	29.97	62.73	74.00	-11.27	Peak	
2	2390.000	3.66	29.10	0.00	29.00	61.76	74.00	-12.24	Peak	
3 p	2412.000	3.68	29.05	0.00	84.77	117.50	74.00	43.50	Peak	



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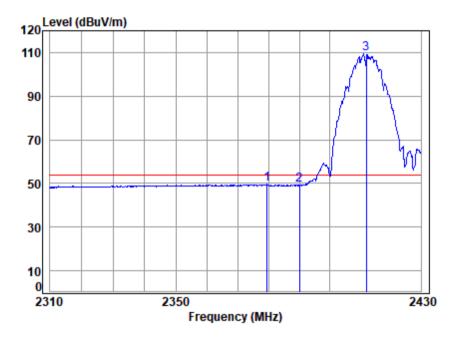


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2412 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2379.461	3.65	29.10	0.00	16.79	49.54	54.00	-4.46	Average
2	2390.000	3.66	29.10	0.00	16.30	49.06	54.00	-4.94	Average
3 q	2412.000	3.68	29.05	0.00	76.76	109.49	54.00	55.49	Average



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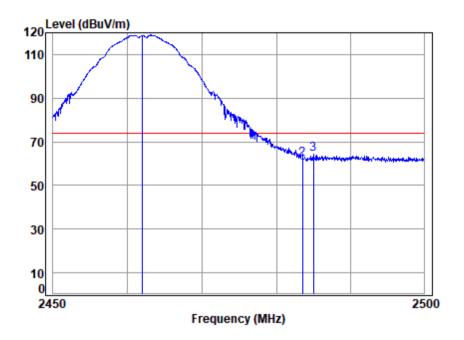


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2462 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
. р	2462.000	3.71	28.90	0.00	86.26	118.87	74.00	44.87	peak
	2483.500	3.73	28.90	0.00	29.37	62.00	74.00	-12.00	peak
}	2484.994	3.73	28.90	0.00	31.88	64.51	74.00	-9.49	peak



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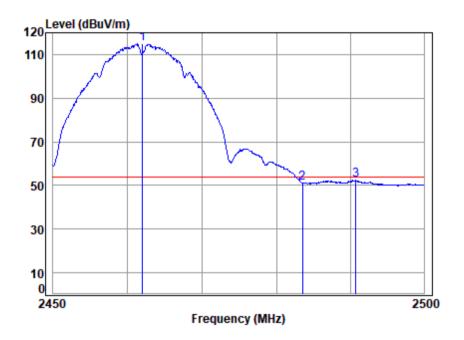


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2462 Band edge : 2.4G WIFI 11B Note

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2462.000 2 2483.500 3 2490.724								_



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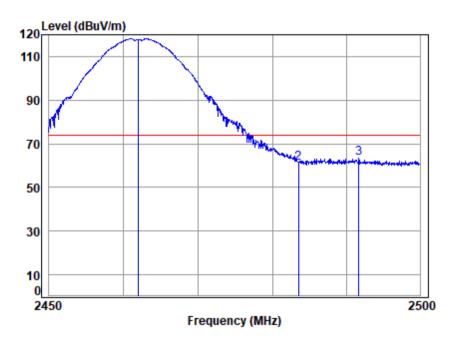


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2462 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	3.71	28.90	0.00	85.65	118.26	74.00	44.26	Peak
2	2483.500	3.73	28.90	0.00	28.60	61.23	74.00	-12.77	Peak
3	2491.680	3.73	28.90	0.00	30.87	63.50	74.00	-10.50	Peak



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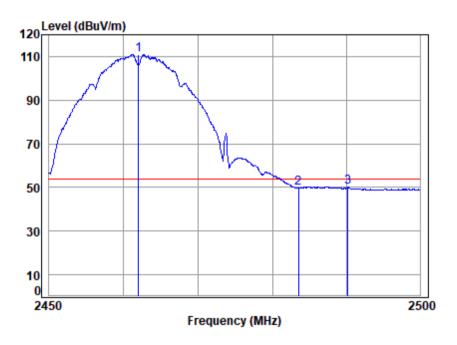


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2462 Band edge : 2.4G WIFI 11B Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q 2462.000	3.71	28.90	0.00	78.32	110.93	54.00	56.93	Average
2	2483.500	3.73	28.90	0.00	17.18	49.81	54.00	-4.19	Average
3	2490.221	3.73	28.90	0.00	17.71	50.34	54.00	-3.66	Average



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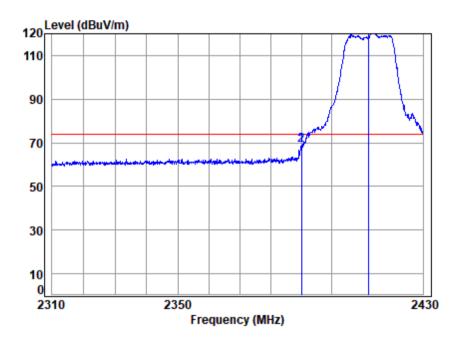


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2412 Band edge : 2.4G WIFI 11G Note

Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						ID 1//		
MHZ	ав	aB/m	ав	aBuv	aBuV/m	aBuv/m	ав	
2389 968	3 66	29 10	0 00	36 02	68 78	74 00	-5 22	neak
								•
2390.000	3.66	29.10	0.00	36.02	68.78	74.00	-5.22	peak
2412.000	3.68	29.05	0.00	87.99	120.72	74.00	46.72	peak
	MHz 2389.968 2390.000	Freq Loss MHz dB 2389.968 3.66 2390.000 3.66	Freq Loss Factor MHz dB dB/m 2389.968 3.66 29.10 2390.000 3.66 29.10	Freq Loss Factor Factor MHz dB dB/m dB 2389.968 3.66 29.10 0.00 2390.000 3.66 29.10 0.00	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2389.968 3.66 29.10 0.00 36.02 2390.000 3.66 29.10 0.00 36.02	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2389.968 3.66 29.10 0.00 36.02 68.78 2390.000 3.66 29.10 0.00 36.02 68.78	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2389.968 3.66 29.10 0.00 36.02 68.78 74.00 2390.000 3.66 29.10 0.00 36.02 68.78 74.00	



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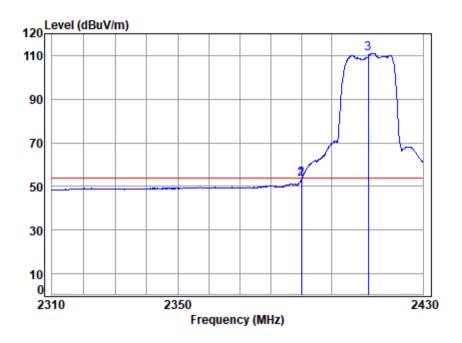


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	3.66	29.10	0.00	20.66	53.42	54.00	-0.58	Average
2	2390.000	3.66	29.10	0.00	20.66	53.42	54.00	-0.58	Average
3 q	2412.000	3.68	29.05	0.00	78.26	110.99	54.00	56.99	Average



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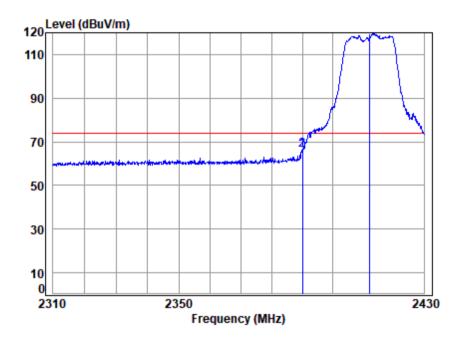


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	3.66	29.10	0.00	33.38	66.14	74.00	-7.86	Peak
2	2390.000	3.66	29.10	0.00	33.38	66.14	74.00	-7.86	Peak
3 p	2412.000	3.68	29.05	0.00	86.68	119.41	74.00	45.41	Peak



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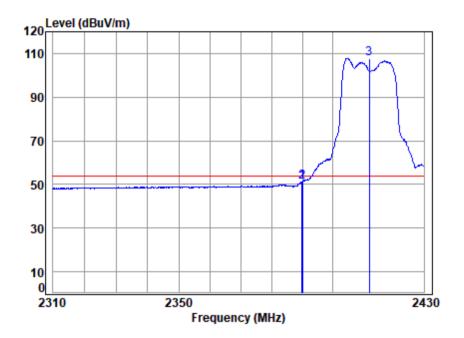


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2412 Band edge : 2.4G WIFI 11G Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	3.66	29.10	0.00	18.46	51.22	54.00	-2.78	Average
2	2390.000	3.66	29.10	0.00	18.44	51.20	54.00	-2.80	Average
3 q	2412.000	3.68	29.05	0.00	75.04	107.77	54.00	53.77	Average



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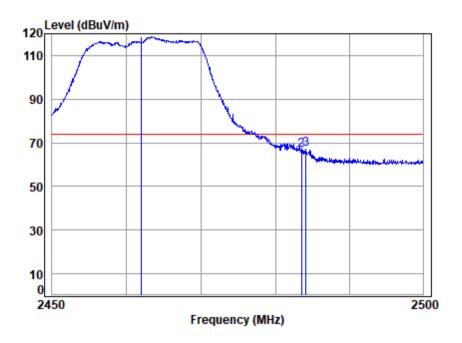


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2462 Band edge : 2.4G WIFI 11G Note

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2462.000								•
2	2483.500	3./3	28.90	0.00	34.08	66./1	/4.00	-/.29	peak
3	2484.141	3.73	28.90	0.00	34.21	66.84	74.00	-7.16	peak



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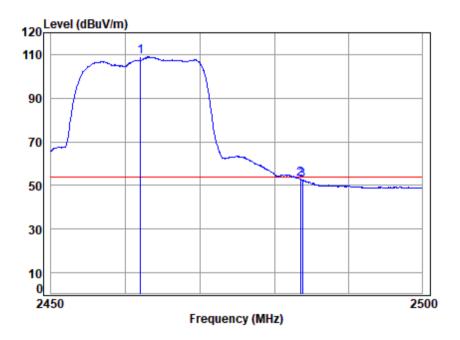


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2462 Band edge : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	3.71	28.90	0.00	76.39	109.00	54.00	55.00	Average
2	2483.500	3.73	28.90	0.00	20.29	52.92	54.00	-1.08	Average
3	2483.790	3.73	28.90	0.00	19.71	52.34	54.00	-1.66	Average



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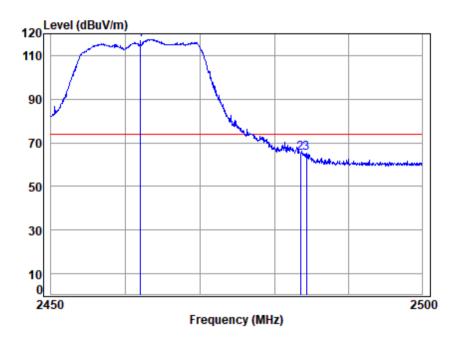


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2462 Band edge : 2.4G WIFI 11G Note

Damanla
Damanla
Remark
Peak
Peak
Peak
F



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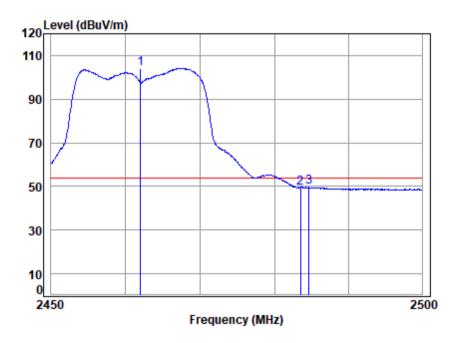


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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2462 Band edge : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	q 2462.000	3.71	28.90	0.00	71.58	104.19	54.00	50.19	Average	
2	2483.500	3.73	28.90	0.00	16.81	49.44	54.00	-4.56	Average	
3	2484.643	3.73	28.90	0.00	16.99	49.62	54.00	-4.38	Average	



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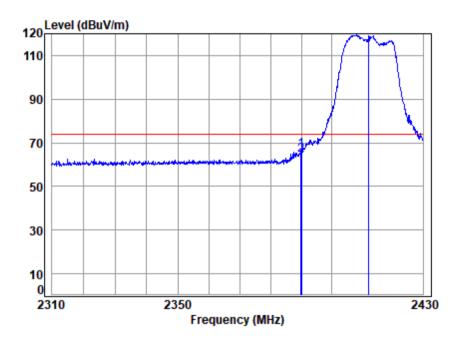


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	3.66	29.10	0.00	33.82	66.58	74.00	-7.42	peak
2	2390.000	3.66	29.10	0.00	31.64	64.40	74.00	-9.60	peak
3 p	2412.000	3.68	29.05	0.00	86.86	119.59	74.00	45.59	peak



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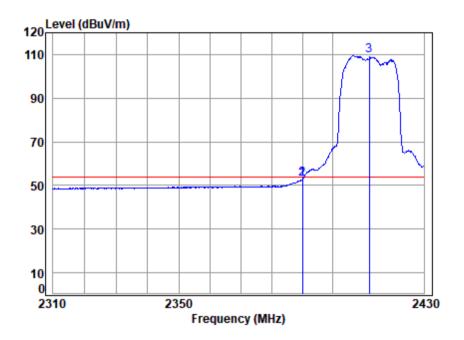


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	3.66	29.10	0.00	20.13	52.89	54.00	-1.11	Average
2	2390.000	3.66	29.10	0.00	20.13	52.89	54.00	-1.11	Average
3 q	2412.000	3.68	29.05	0.00	76.68	109.41	54.00	55.41	Average



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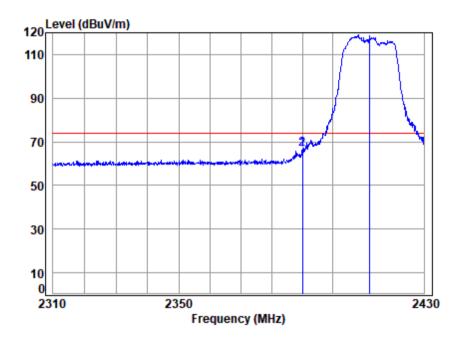


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	3.66	29.10	0.00	33.92	66.68	74.00	-7.32	Peak
2	2390.000	3.66	29.10	0.00	33.92	66.68	74.00	-7.32	Peak
3 p	2412.000	3.68	29.05	0.00	86.22	118.95	74.00	44.95	Peak



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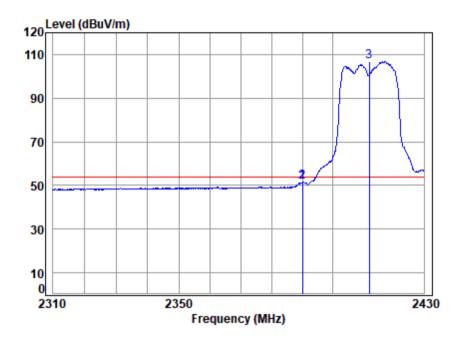


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2412 Band edge : 2.4G WIFI 11N20 Note

				_						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.968	3.66	29.10	0.00	18.58	51.34	54.00	-2.66	Average	
2	2390.000	3.66	29.10	0.00	18.58	51.34	54.00	-2.66	Average	
3 0	2412.000	3.68	29.05	0.00	74.04	106.77	54.00	52.77	Average	



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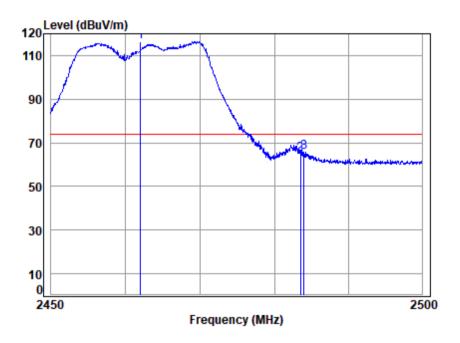


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	3.71	28.90	0.00	83.87	116.48	74.00	42.48	peak
2	2483.500	3.73	28.90	0.00	32.18	64.81	74.00	-9.19	peak
3	2483.990	3.73	28.90	0.00	33.24	65.87	74.00	-8.13	peak



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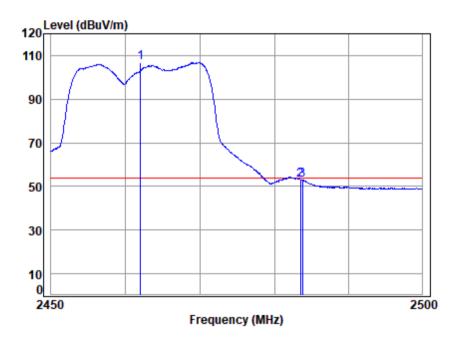


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
		2462.000 2483.500								Average Average
3		2483.790	3.73	28.90	0.00	20.24	52.87	54.00	-1.13	Average



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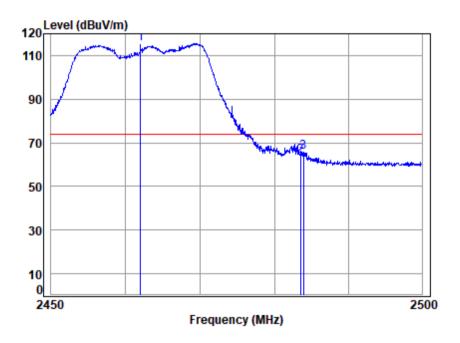


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2462 Band edge · 2 4G WTFT 11N20 Note

ote	. Z.	#G MTL	T TIME	0						
		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 p	2462.000	3.71	28.90	0.00	82.72	115.33	74.00	41.33	Peak	
2	2483.500	3.73	28.90	0.00	31.07	63.70	74.00	-10.30	Peak	
3	2483.940	3.73	28,90	0.00	33.27	65.90	74.00	-8.10	Peak	



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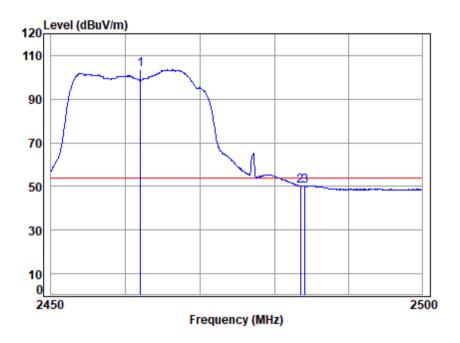


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2462 Band edge : 2.4G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q 2462.000	3.71	28.90	0.00	70.82	103.43	54.00	49.43	Average
2	2483.500	3.73	28.90	0.00	17.56	50.19	54.00	-3.81	Average
3	2484.141	3.73	28.90	0.00	17.73	50.36	54.00	-3.64	Average



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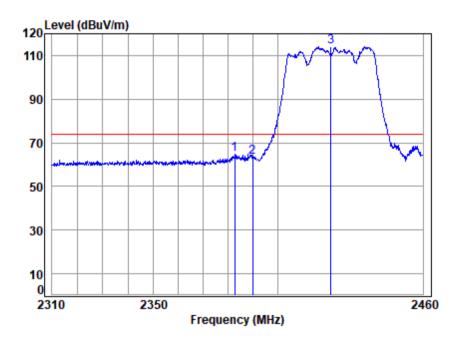


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Report No.: SZCR230700233112

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2422 Band edge : 2.4G WIFI 11N40 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	2382.771	3.66	29.10	0.00	32.04	64.80	74.00	-9.20	peak
2	2390.000	3.66	29.10	0.00	30.85	63.61	74.00	-10.39	peak
3 p	2422.000	3.68	29.01	0.00	81.52	114.21	74.00	40.21	peak



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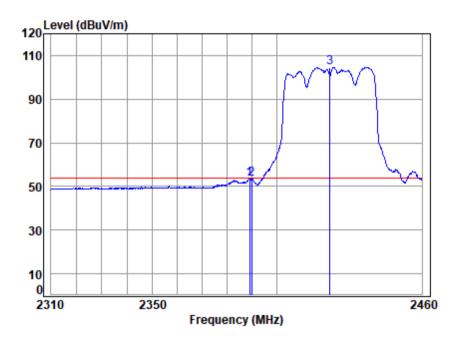


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Report No.: SZCR230700233112

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2422 Band edge : 2.4G WIFI 11N40 Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.075	3.66	29.10	0.00	20.70	53.46	54.00	-0.54	Average
2	2390.000	3.66	29.10	0.00	20.48	53.24	54.00	-0.76	Average
3 q	2422.000	3.68	29.01	0.00	71.97	104.66	54.00	50.66	Average



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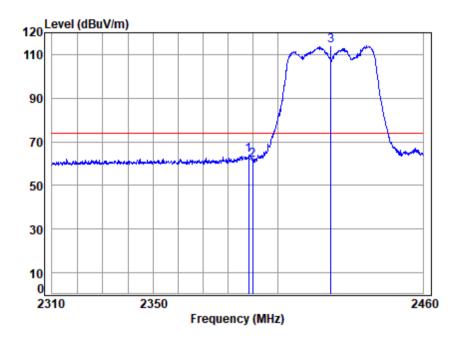


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Report No.: SZCR230700233112

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2422 Band edge : 2.4G WIFI 11N40 Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.324	3.66	29.10	0.00	31.18	63.94	74.00	-10.06	Peak
2	2390.000	3.66	29.10	0.00	28.68	61.44	74.00	-12.56	Peak
3 p	2422.000	3.68	29.01	0.00	81.24	113.93	74.00	39.93	Peak



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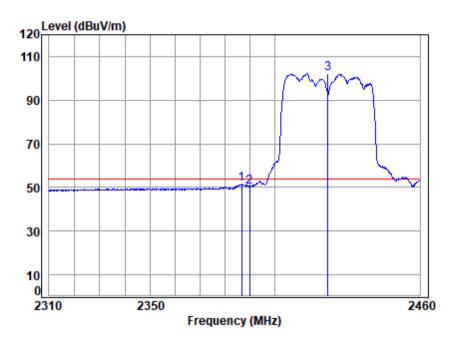


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Report No.: SZCR230700233112

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2422 Band edge : 2.4G WIFI 11N40 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	
2386.672	3.66	29.10	0.00	18.65	51.41	54.00	-2.59	Average
2390.000	3.66	29.10	0.00	17.35	50.11	54.00	-3.89	Average
2422.000	3.68	29.01	0.00	69.44	102.13	54.00	48.13	Average
	MHz 2386.672 2390.000	Freq Loss MHz dB 2386.672 3.66 2390.000 3.66	Freq Loss Factor MHz dB dB/m 2386.672 3.66 29.10 2390.000 3.66 29.10	Freq Loss Factor Factor MHz dB dB/m dB 2386.672 3.66 29.10 0.00 2390.000 3.66 29.10 0.00	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2386.672 3.66 29.10 0.00 18.65 2390.000 3.66 29.10 0.00 17.35	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2386.672 3.66 29.10 0.00 18.65 51.41 2390.000 3.66 29.10 0.00 17.35 50.11	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2386.672 3.66 29.10 0.00 18.65 51.41 54.00 2390.000 3.66 29.10 0.00 17.35 50.11 54.00	2386.672 3.66 29.10 0.00 18.65 51.41 54.00 -2.59



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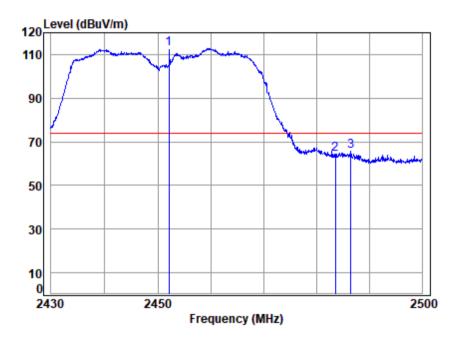


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

Page: 55 of 285

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2452 Band edge : 2.4G WIFI 11N40 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 p	2452.000	3.71	28.90	0.00	79.99	112.60	74.00	38.60	peak
2	2483.500	3.73	28.90	0.00	31.59	64.22	74.00	-9.78	peak
3	2486.476	3.73	28.90	0.00	33.12	65.75	74.00	-8.25	peak



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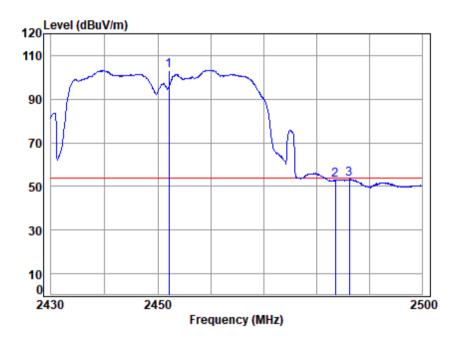


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

Page: 56 of 285

Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2452 Band edge : 2.4G WIFI 11N40 Note



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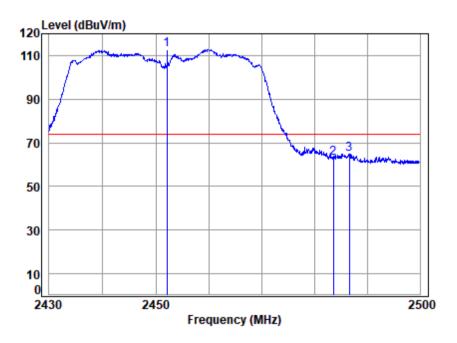


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

Page: 57 of 285

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2452 Band edge : 2.4G WIFI 11N40 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	p 2452.000	3.71	28.90	0.00	80.19	112.80	74.00	38.80	Peak
2	2483.500	3.73	28.90	0.00	30.56	63.19	74.00	-10.81	Peak
3	2486.547	3.73	28.90	0.00	32.31	64.94	74.00	-9.06	Peak



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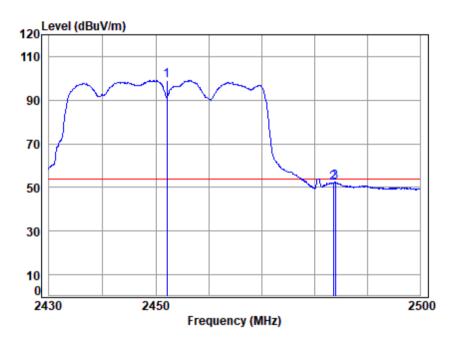


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Report No.: SZCR230700233112

Page: 58 of 285

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2452 Band edge : 2.4G WIFI 11N40 Note

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2452.000 2483.500								_
2483.865								_



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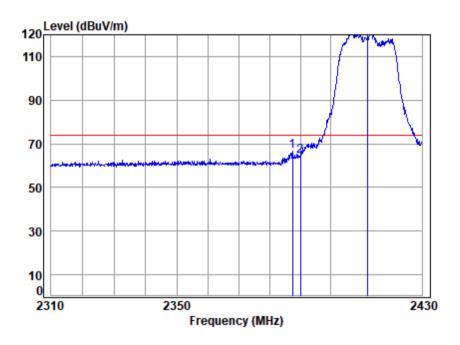


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT 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	2387.428	3.66	29.10	0.00	33.78	66.54	74.00	-7.46	peak
2	2390.000	3.66	29.10	0.00	31.66	64.42	74.00	-9.58	peak
3 p	2412.000	3.68	29.05	0.00	88.50	121.23	74.00	47.23	peak



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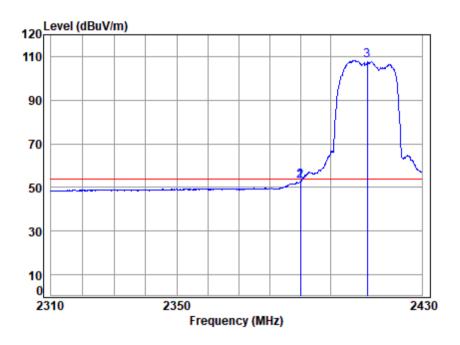


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT 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	3.66	29.10	0.00	20.07	52.83	54.00	-1.17	Average
2	2390.000	3.66	29.10	0.00	20.07	52.83	54.00	-1.17	Average
3 q	2412.000	3.68	29.05	0.00	75.59	108.32	54.00	54.32	Average
3 q	2412.000	3.68	29.05	0.00	75.59	108.32	54.00	54.32	Average



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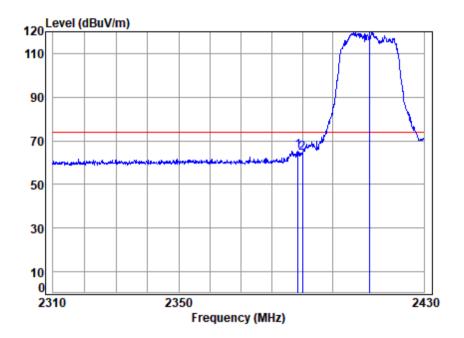


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

Page: 61 of 285

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT 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	2388.516	3.66	29.10	0.00	32.48	65.24	74.00	-8.76	Peak
2	2390.000	3.66	29.10	0.00	31.61	64.37	74.00	-9.63	Peak
3 p	2412.000	3.68	29.05	0.00	87.72	120.45	74.00	46.45	Peak



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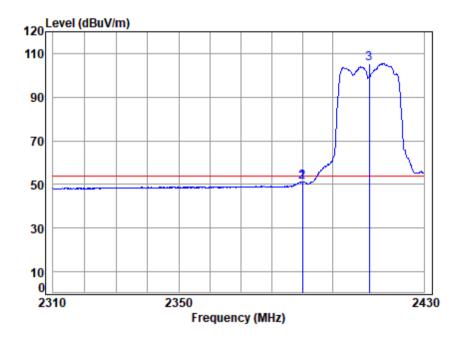


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT 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		
	2389.968	3.66	29.10	0.00	18.43	51.19	54.00	-2.81	Average	
	2390.000	3.66	29.10	0.00	18.43	51.19	54.00	-2.81	Average	
q	2412.000	3.68	29.05	0.00	72.82	105.55	54.00	51.55	Average	



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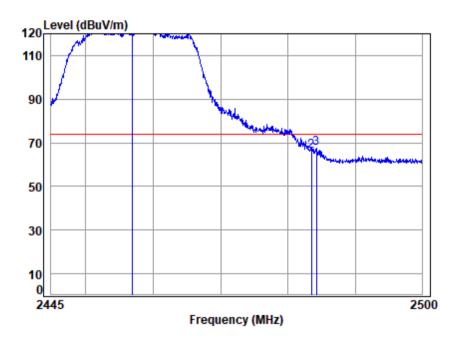


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2457 Band edge : 2.4G WIFI 11AX20 Note

Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2457.000	3.71	28.90	0.00	90.62	123.23	74.00	49.23	peak
2483.500	3.73	28.90	0.00	33.35	65.98	74.00	-8.02	peak
2484.200	3.73	28.90	0.00	34.73	67.36	74.00	-6.64	peak
	MHz 2457.000 2483.500	Freq Loss MHz dB 2457.000 3.71 2483.500 3.73	Freq Loss Factor MHz dB dB/m 2457.000 3.71 28.90 2483.500 3.73 28.90	Freq Loss Factor Factor MHz dB dB/m dB 2457.000 3.71 28.90 0.00 2483.500 3.73 28.90 0.00	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2457.000 3.71 28.90 0.00 90.62 2483.500 3.73 28.90 0.00 33.35	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2457.000 3.71 28.90 0.00 90.62 123.23 2483.500 3.73 28.90 0.00 33.35 65.98	Freq Loss Factor Factor Level Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2457.000 3.71 28.90 0.00 90.62 123.23 74.00 2483.500 3.73 28.90 0.00 33.35 65.98 74.00	Freq Cable Loss Factor Factor Ant Preamp Level Level Level Limit Limit Limit Over Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 2457.000 3.71 28.90 0.00 90.62 123.23 74.00 49.23 2483.500 3.73 28.90 0.00 33.35 65.98 74.00 -8.02 2484.200 3.73 28.90 0.00 34.73 67.36 74.00 -6.64



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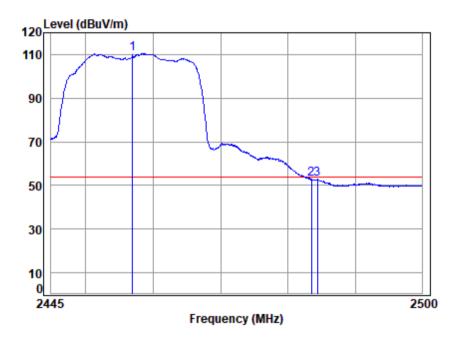


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2457 Band edge : 2.4G WIFI 11AX20 Note

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2457.000 2 2483.500 3 2484.366	3.73	28.90	0.00	20.10	52.73	54.00	-1.27	Average



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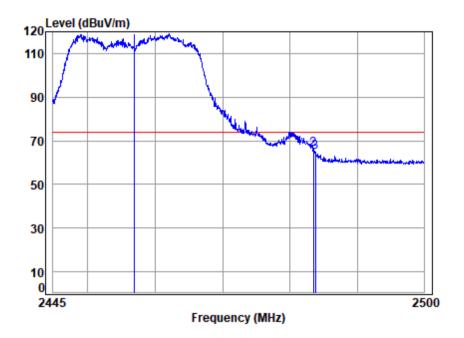


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2457 Band edge Note

ote	. Z.	4G WIF	I IIAV	20						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	2457.000	3.71	28.90	0.00	86.38	118.99	74.00	44.99	Peak	
2	2483.500	3.73	28.90	0.00	33.73	66.36	74.00	-7.64	Peak	
3	2483.813	3.73	28.90	0.00	31.99	64.62	74.00	-9.38	Peak	



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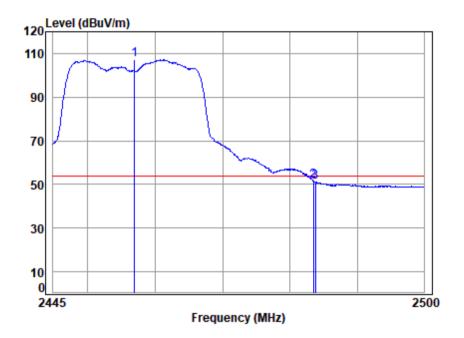


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

Page: 66 of 285

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2457 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	2457.000	3.71	28.90	0.00	74.48	107.09	54.00	53.09	Average
2	2483.500	3.73	28.90	0.00	19.05	51.68	54.00	-2.32	Average
3	2483.813	3.73	28.90	0.00	18.47	51.10	54.00	-2.90	Average



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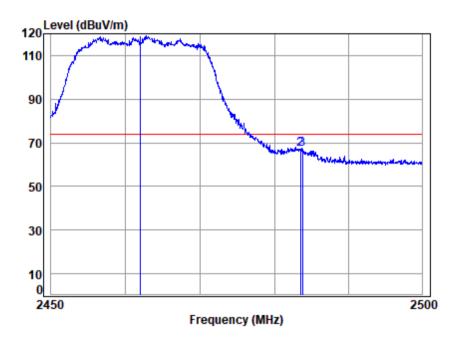


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT 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 p	2462.000	3.71	28.90	0.00	86.47	119.08	74.00	45.08	peak
2	2483.500	3.73	28.90	0.00	34.33	66.96	74.00	-7.04	peak
3	2483.790	3.73	28.90	0.00	34.55	67.18	74.00	-6.82	peak



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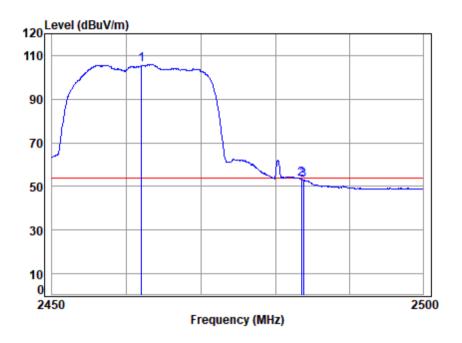


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT : 2462 Band edge Mode : 2.4G WIFI 11AX20 Note

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	Ċ	2462.000 2483.500	3.73	28.90	0.00	20.65	53.28	54.00	-0.72	Average
3		2483.790	3.73	28.90	0.00	20.30	52.93	54.00	-1.07	Average



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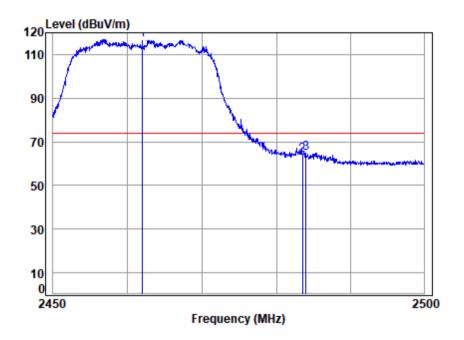


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2462 Band edge · 2 4G WTFT 114X20 Note

ote	. Z.	4G WIF	I IIAV	20						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	2462.000	3.71	28.90	0.00	84.25	116.86	74.00	42.86	Peak	
2	2483.500	3.73	28.90	0.00	31.35	63.98	74.00	-10.02	Peak	
3	2483.990	3.73	28,90	0.00	32.09	64.72	74.00	-9.28	Peak	



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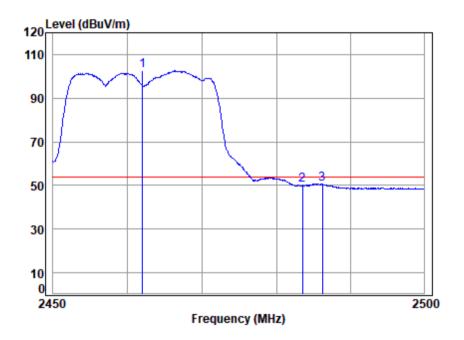


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT 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	3.71	28.90	0.00	69.88	102.49	54.00	48.49	Average
2	2483.500	3.73	28.90	0.00	17.44	50.07	54.00	-3.93	Average
3	2486.199	3.73	28.90	0.00	17.99	50.62	54.00	-3.38	Average



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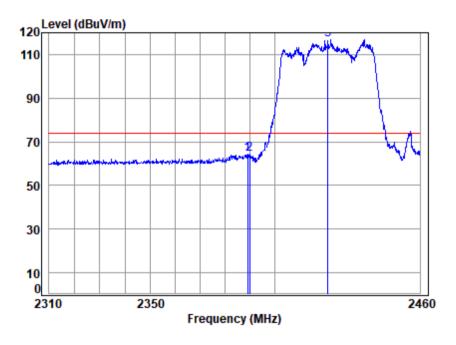


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT 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	2389.075	3.66	29.10	0.00	31.59	64.35	74.00	-9.65	peak	
2	2390.000	3.66	29.10	0.00	31.47	64.23	74.00	-9.77	peak	
3 p	2422.000	3.68	29.01	0.00	84.17	116.86	74.00	42.86	peak	
2	2390.000	3.66	29.10	0.00	31.47	64.23	74.00	-9.77	peak	



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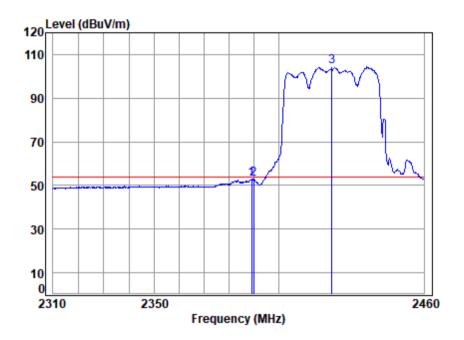


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2422 Band edge : 2.4G WIFI 11AX40 Note

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.226	3.66	29.10	0.00	20.04	52.80	54.00	-1.20	Average
2	2390.000	3.66	29.10	0.00	19.97	52.73	54.00	-1.27	Average
3 q	2422.000	3.68	29.01	0.00	71.62	104.31	54.00	50.31	Average



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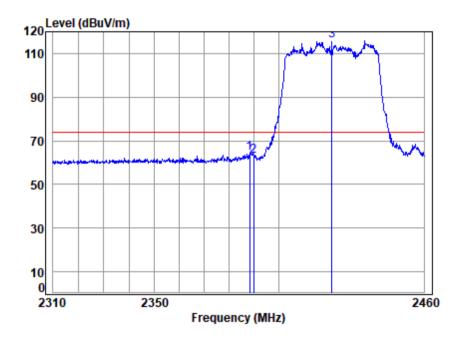


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2422 Band edge · 2 4G WTFT 110X40 Note

) Le	. 2.4	+G MTL	T TIAM	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	2388.324	3.66	29.10	0.00	31.57	64.33	74.00	-9.67	Peak
2	2390.000	3.66	29.10	0.00	29.98	62.74	74.00	-11.26	Peak
3 p	2422,000	3.68	29.01	0.00	83.23	115.92	74.00	41.92	Peak



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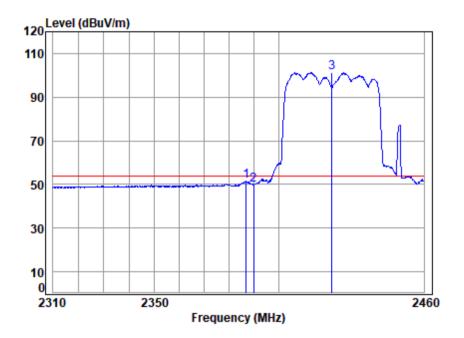


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2422 Band edge : 2.4G WIFI 11AX40 Note

	Freq						Limit Line		Remark	
-				——dB				dB		
1	2386.972	3.66	29.10	0.00	18.75	51.51	54.00	-2.49	Average	
2	2390.000	3.66	29.10	0.00	16.97	49.73	54.00	-4.27	Average	
3 q	2422.000	3.68	29.01	0.00	68.43	101.12	54.00	47.12	Average	



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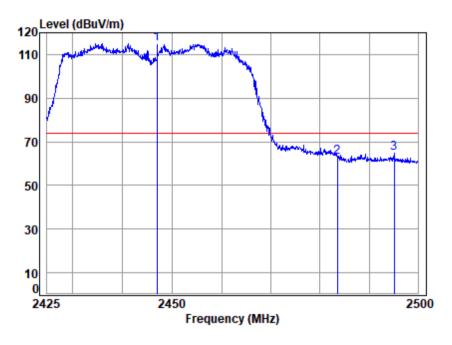


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2447 Band edge : 2.4G WIFI 11AX40 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2447.000 2483.500								•
3	2495.131	3.74	28.90	0.00	32.04	64.68	74.00	-9.32	peak



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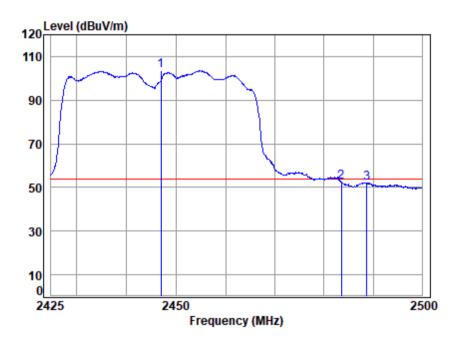


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2447 Band edge : 2.4G WIFI 11AX40 Note

	Erea			Preamp Factor					Remark
	1164	LUSS	I ac coi	I ac coi	rever	rever	LINE	LIMIT	Kelliai K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2447.000	3.70	28.91	0.00	70.93	103.54	54.00	49.54	Average
2	2483.500	3.73	28.90	0.00	19.74	52.37	54.00	-1.63	Average
3	2488.680	3.73	28.90	0.00	19.60	52.23	54.00	-1.77	Average



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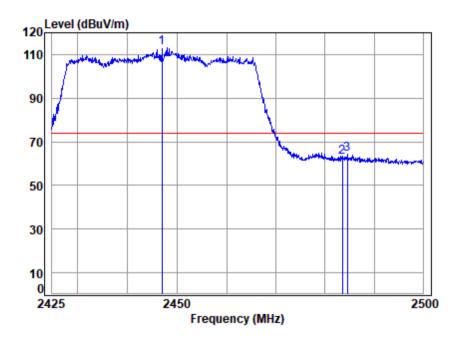


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2447 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 p	2447.000	3.70	28.91	0.00	80.64	113.25	74.00	39.25	Peak
2	2483.500	3.73	28.90	0.00	30.44	63.07	74.00	-10.93	Peak
3	2484.514	3.73	28.90	0.00	31.58	64.21	74.00	-9.79	Peak



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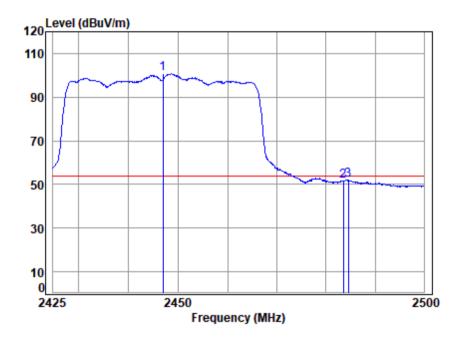


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2447 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 q	2447.000	3.70	28.91	0.00	68.12	100.73	54.00	46.73	Average
2	2483.500	3.73	28.90	0.00	18.98	51.61	54.00	-2.39	Average
3	2484.514	3.73	28.90	0.00	19.51	52.14	54.00	-1.86	Average



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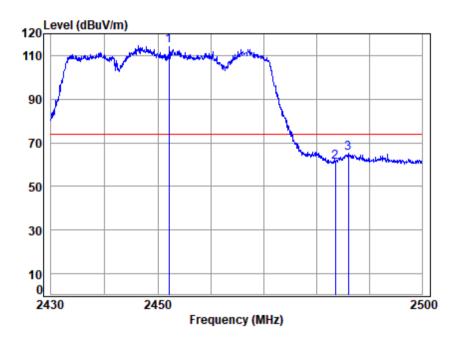


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2452 Band edge : 2.4G WIFI 11AX40 Note

	Enoa			Preamp					Pomonic
	rreq	LUSS	ractor	Factor	rever	rever	Line	LIMIT	Reliiark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2452.000	3.71	28.90	0.00	81.88	114.49	74.00	40.49	peak
2	2483.500	3.73	28.90	0.00	28.61	61.24	74.00	-12.76	peak
3	2485.911	3.73	28.90	0.00	32.72	65.35	74.00	-8.65	peak



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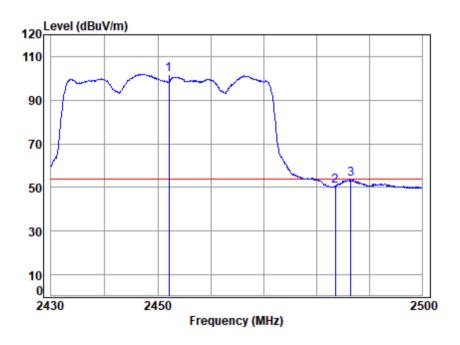


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Test Mode: 00; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2452 Band edge : 2.4G WIFI 11AX40 Note

	Freq						Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2452.000								_	
2	2483.500	3.73	28.90	0.00	18.10	50.73	54.00	-3.27	Average	
3	2486.405	3.73	28.90	0.00	21.00	53.63	54.00	-0.37	Average	



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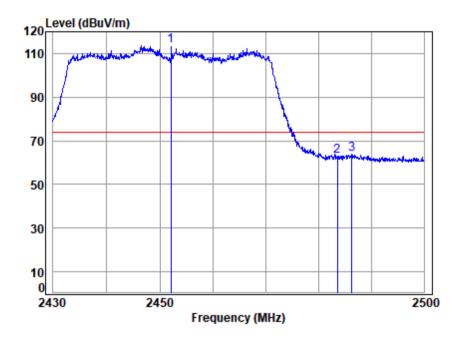


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT 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	
1	р	2452.000	3.71	28.90	0.00	81.15	113.76	74.00	39.76	Peak
2		2483.500	3.73	28.90	0.00	30.40	63.03	74.00	-10.97	Peak
3		2486.264	3.73	28.90	0.00	31.33	63.96	74.00	-10.04	Peak



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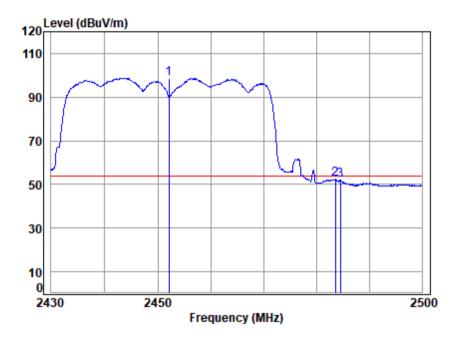


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Test Mode: 00; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT Mode : 2452 Band edge : 2.4G WIFI 11AX40 Note

	Freq			Preamp Factor					Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1 q	2452.000	3.71	28.90	0.00	66.03	98.64	54.00	44.64	Average	
2	2483.500	3.73	28.90	0.00	19.67	52.30	54.00	-1.70	Average	
3	2484.429	3.73	28.90	0.00	19.47	52.10	54.00	-1.90	Average	



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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: 24.2 °C Humidity: 47.3 % RH Atmospheric Pressure: 995 mbar

7.8.2 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. Only the data of worst case is recorded in the report.



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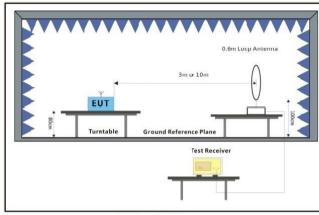


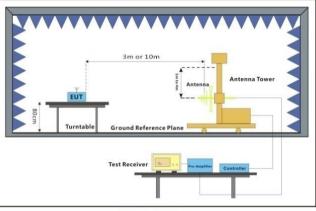
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7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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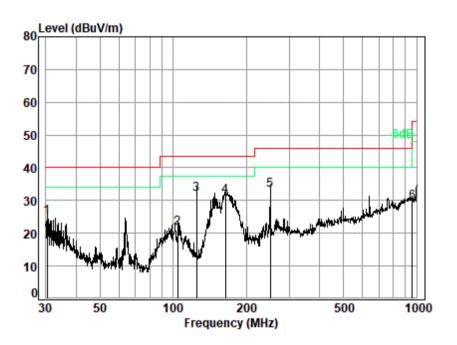


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Test Mode: 00; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 02331AT

Test Mode: 00

: External

		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	30.42	21.00	0.64	27.79	31.19	25.04	40.00	-14.96	QP
2	104.54	12.21	1.21	27.57	35.63	21.48	43.50	-22.02	QP
3 q	125.01	10.98	1.33	27.48	47.20	32.03	43.50	-11.47	QP
4	163.76	13.28	1.53	27.32	43.70	31.19	43.50	-12.31	QP
5	250.30	17.24	1.95	26.96	40.79	33.02	46.00	-12.98	QP
6	958.79	28.10	4.24	26.34	23.40	29.40	46.00	-16.60	QP



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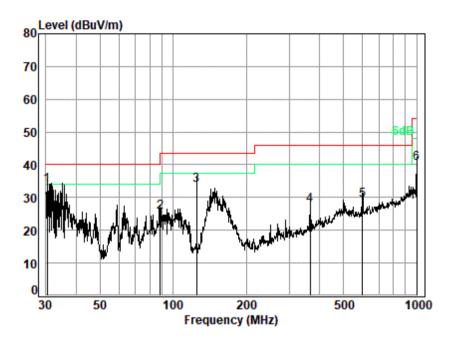


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Test Mode: 00; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 02331AT

Test Mode: 00

: External

		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	q 30.42	21.00	0.64	27.79	39.92	33.77	40.00	-6.23	QP
2	88.65	11.57	1.12	27.62	40.60	25.67	43.50	-17.83	QP
3	125.01	10.98	1.33	27.48	48.81	33.64	43.50	-9.86	QP
4	365.54	20.31	2.42	27.02	31.86	27.57	46.00	-18.43	QP
5	599.32	24.42	3.21	27.97	29.60	29.26	46.00	-16.74	QP
6	1000.00	28.26	4.35	26.05	34.01	40.57	54.00	-13.43	QP



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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

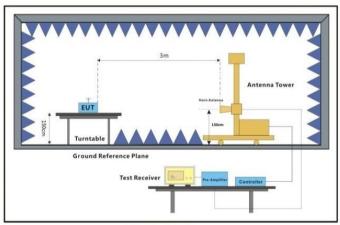
Operating Environment:

Temperature: 24.4 °C Humidity: 56.0 % RH Atmospheric Pressure: 995 mbar

7.9.2 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. Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



Above 1GHz



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7.9.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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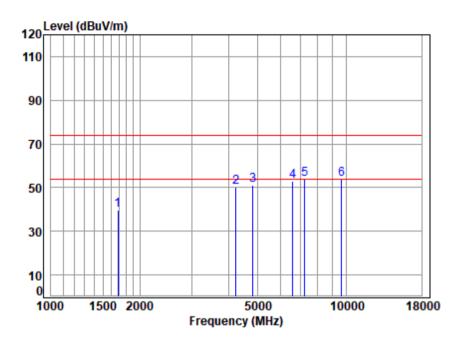


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT Mode : 2412 TX RSE

: 2.4G WIFI 11B : External ANT

		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	1687.347	4.31	26.77	36.43	45.14	39.79	74.00	-34.21	peak
2	4230.396	6.94	33.52	34.49	44.01	49.98	74.00	-24.02	peak
3	4824.000	7.33	33.90	34.88	44.85	51.20	74.00	-22.80	peak
4	6583.209	8.62	35.60	35.56	44.22	52.88	74.00	-21.12	peak
5	7236.000	9.21	35.80	35.95	44.71	53.77	74.00	-20.23	peak
6	q 9648.000	12.39	37.10	35.55	39.92	53.86	74.00	-20.14	peak



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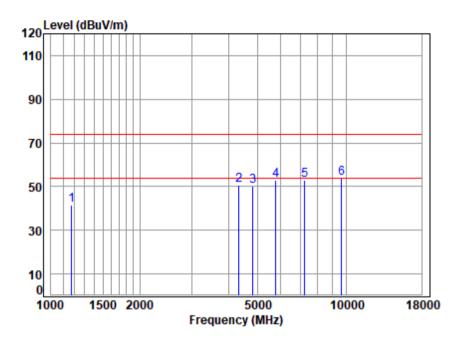


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT

Mode : 2412 TX RSE

> : 2.4G WIFI 11B : External ANT

		cci nai	A141						
		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	1175.697	3.54	24.30	37.79	51.40	41.45	74.00	-32.55	peak
2	4341.886	7.02	33.60	34.57	44.63	50.68	74.00	-23.32	peak
3	4824.000	7.33	33.90	34.88	44.06	50.41	74.00	-23.59	peak
4	5780.300	8.02	34.56	35.03	45.48	53.03	74.00	-20.97	peak
5	7236.000	9.21	35.80	35.95	43.76	52.82	74.00	-21.18	peak
6	q 9648.000								•



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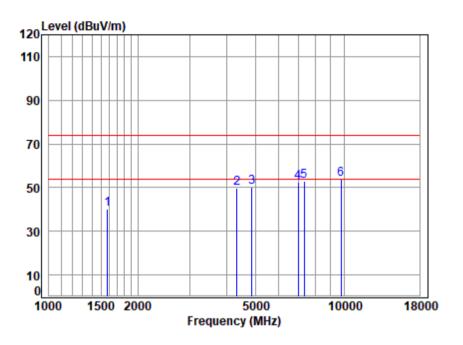


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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



Site : chamber

Mode

Condition: 3m HORIZONTAL : 02331AT/02332AT

: 2437 TX RSE : 2.4G WIFI 11B

: External ANT

		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	26.25	36.68	46.26	40.00	74.00	-34.00	peak
2	4329.354	7.01	33.60	34.56	43.65	49.70	74.00	-24.30	peak
3	4874.000	7.36	34.05	34.91	43.48	49.98	74.00	-24.02	peak
4	6974.982	8.90	35.75	35.89	43.70	52.46	74.00	-21.54	peak
5	7311.000	9.30	35.90	35.97	43.52	52.75	74.00	-21.25	peak
6	q 9748.000	12.46	37.20	35.56	39.53	53.63	74.00	-20.37	peak



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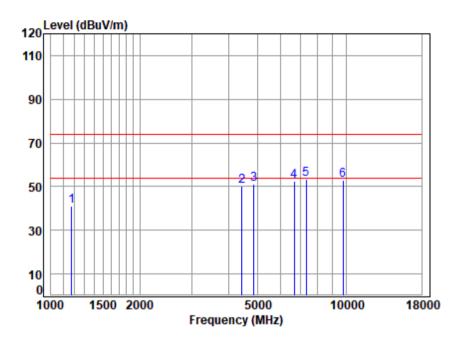


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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT

Mode : 2437 TX RSE

> : 2.4G WIFI 11B : External ANT

		. LA	cei mai	AIVI						
			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		1175.697	3.54	24.30	37.79	51.07	41.12	74.00	-32.88	peak
2		4430.628	7.08	33.50	34.63	44.38	50.33	74.00	-23.67	peak
3		4874.000	7.36	34.05	34.91	44.42	50.92	74.00	-23.08	peak
4		6659.763	8.68	35.60	35.63	43.86	52.51	74.00	-21.49	peak
5	q	7311.000	9.30	35.90	35.97	44.24	53.47	74.00	-20.53	peak
6	Ċ	9748.000	12.46	37.20	35.56	39.01	53.11	74.00	-20.89	peak



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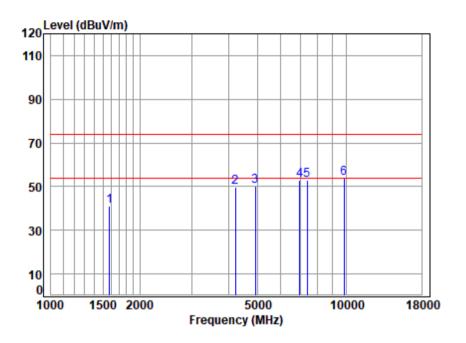


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT

Mode : 2462 TX RSE : 2.4G WIFI 11B

: External ANT

			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	26.25	36.68	47.16	40.90	74.00	-33.10	peak
2		4218.186	6.93	33.47	34.48	43.99	49.91	74.00	-24.09	peak
3		4924.000	7.39	34.15	34.94	43.75	50.35	74.00	-23.65	peak
4	ļ	6954.852	8.89	35.71	35.87	44.10	52.83	74.00	-21.17	peak
5		7386.000	9.39	35.90	35.98	43.64	52.95	74.00	-21.05	peak
6	а	9848.000	12.53	37.30	35.57	39.50	53.76	74.00	-20.24	peak



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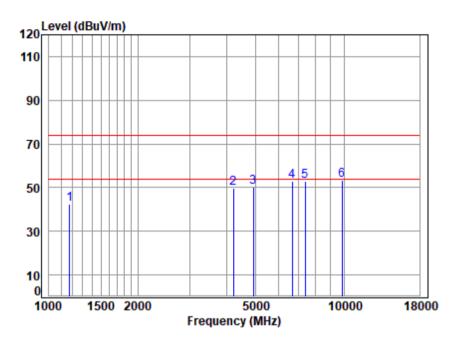


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT

Mode : 2462 TX RSE

> : 2.4G WIFI 11B · Fyternal ANT

		. LA	cernat	AIVI						
			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		1175.697	3.54	24.30	37.79	52.42	42.47	74.00	-31.53	peak
2		4218.186	6.93	33.47	34.48	43.83	49.75	74.00	-24.25	peak
3		4924.000	7.39	34.15	34.94	43.70	50.30	74.00	-23.70	peak
4		6679.040	8.69	35.60	35.65	44.27	52.91	74.00	-21.09	peak
5		7386.000	9.39	35.90	35.98	43.41	52.72	74.00	-21.28	peak
6	q	9848.000	12.53	37.30	35.57	39.18	53.44	74.00	-20.56	peak



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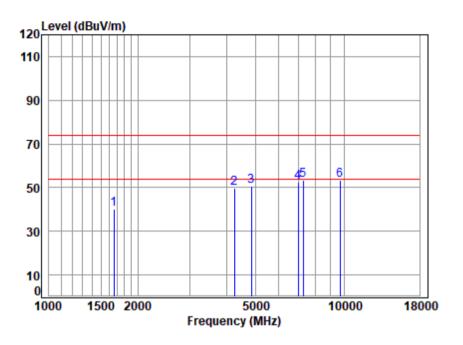


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT

Mode : 2422 TX RSE

> : 2.4G WIFI 11N40 : External ANT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	4.28	26.73	36.48	45.51	40.04	74.00	-33.96	peak
2	4254.921	6.96	33.60	34.51	43.89	49.94	74.00	-24.06	peak
3	4844.000	7.34	33.98	34.89	44.27	50.70	74.00	-23.30	peak
4	6995.172	8.92	35.79	35.91	43.68	52.48	74.00	-21.52	peak
5	7266.000	9.25	35.83	35.96	44.30	53.42	74.00	-20.58	peak
6	q 9688.000	12.42	37.10	35.56	39.47	53.43	74.00	-20.57	peak



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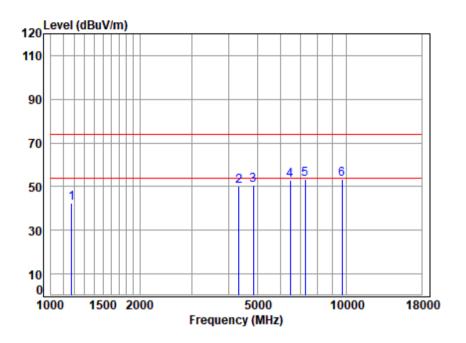


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT

Mode : 2422 TX RSE

> : 2.4G WIFI 11N40 : External ANT

		CI IIGI	A141						
		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	1175.697	3.54	24.30	37.79	52.29	42.34	74.00	-31.66	peak
2	4341.886	7.02	33.60	34.57	44.32	50.37	74.00	-23.63	peak
3	4844.000	7.34	33.98	34.89	44.04	50.47	74.00	-23.53	peak
4	6470.026	8.54	35.44	35.47	44.42	52.93	74.00	-21.07	peak
5	7266.000	9.25	35.83	35.96	44.09	53.21	74.00	-20.79	peak
6	q 9688.000								•



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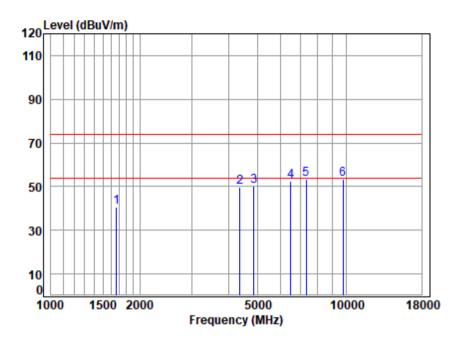


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Report No.: SZCR230700233112

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT

Mode : 2437 TX RSE

> : 2.4G WIFI 11N40 : External ANT

		cci nai	~~~						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	4.29	26.74	36.47	45.94	40.50	74.00	-33.50	peak
2	4367.058	7.04	33.57	34.59	43.70	49.72	74.00	-24.28	peak
3	4874.000	7.36	34.05	34.91	43.63	50.13	74.00	-23.87	peak
4	6488.754	8.55	35.48	35.48	44.03	52.58	74.00	-21.42	peak
5 0	7311.000	9.30	35.90	35.97	44.00	53.23	74.00	-20.77	peak
6	9748.000	12.46	37.20	35.56	39.12	53.22	74.00	-20.78	peak



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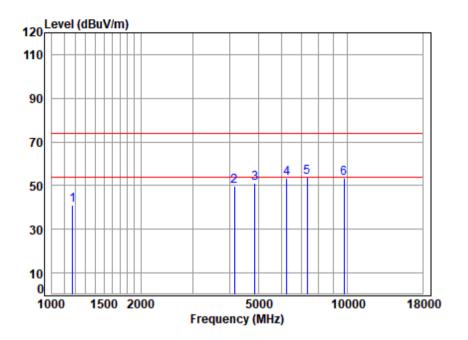


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Report No.: SZCR230700233112

Page: 98 of 285

Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT

Mode : 2437 TX RSE

> : 2.4G WIFI 11N40 : External ANT

		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	1175.697	3.54	24.30	37.79	51.05	41.10	74.00	-32.90	peak
2	4157.664	6.89	33.15	34.44	44.16	49.76	74.00	-24.24	peak
3	4874.000	7.36	34.05	34.91	44.52	51.02	74.00	-22.98	peak
4	6249.464	8.37	35.20	35.27	45.07	53.37	74.00	-20.63	peak
5 c	7311.000	9.30	35.90	35.97	44.63	53.86	74.00	-20.14	peak
6	9748.000	12.46	37.20	35.56	39.45	53.55	74.00	-20.45	peak



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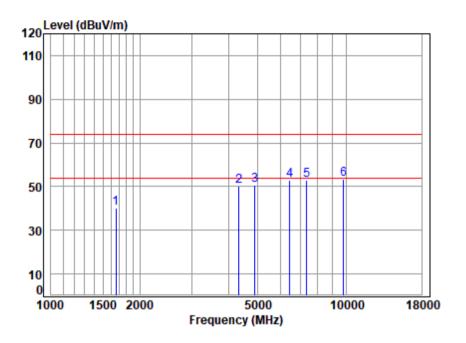


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233112

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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT

Mode : 2452 TX RSE

: 2.4G WIFI 11N40 : External ANT

	. LA	cei nai	AIVI						
		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	1658.337	4.28	26.72	36.50	45.62	40.12	74.00	-33.88	peak
2	4329.354	7.01	33.60	34.56	43.96	50.01	74.00	-23.99	peak
3	4904.000	7.37	34.11	34.92	43.88	50.44	74.00	-23.56	peak
4	6432.732	8.51	35.37	35.43	44.41	52.86	74.00	-21.14	peak
5	7356.000	9.36	35.90	35.98	43.77	53.05	74.00	-20.95	peak
6 q	9808.000	12.50	37.22	35.57	39.02	53.17	74.00	-20.83	peak



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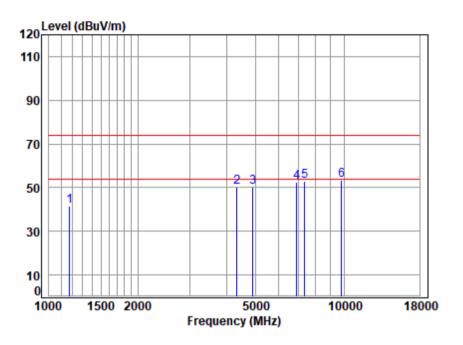


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Report No.: SZCR230700233112

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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT

Mode : 2452 TX RSE

> : 2.4G WIFI 11N40 : External ANT

			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		1175.697	3.54	24.30	37.79	51.27	41.32	74.00	-32.68	peak
2		4329.354	7.01	33.60	34.56	43.95	50.00	74.00	-24.00	peak
3		4904.000	7.37	34.11	34.92	43.85	50.41	74.00	-23.59	peak
4	ļ	6914.763	8.86	35.63	35.84	44.00	52.65	74.00	-21.35	peak
5		7356.000	9.36	35.90	35.98	43.45	52.73	74.00	-21.27	peak
6	q	9808.000	12.50	37.22	35.57	39.37	53.52	74.00	-20.48	peak



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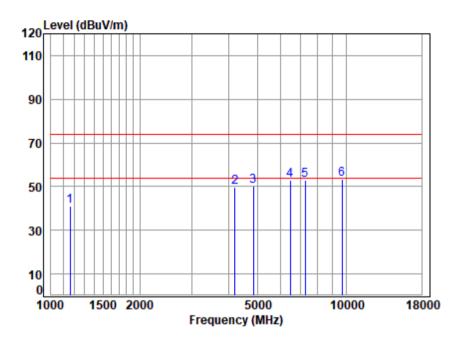


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Report No.: SZCR230700233112

Page: 101 of 285

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT

Mode : 2422 TX RSE

: 2.4G WIFI 11AX40

: External ANT

		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	1162.182	3.51	24.25	37.83	50.95	40.88	74.00	-33.12	peak
2	4193.872	6.92	33.36	34.47	44.04	49.85	74.00	-24.15	peak
3	4844.000	7.34	33.98	34.89	43.72	50.15	74.00	-23.85	peak
4	6470.026	8.54	35.44	35.47	44.47	52.98	74.00	-21.02	peak
5	7266.000	9.25	35.83	35.96	43.83	52.95	74.00	-21.05	peak
6 a	9688.000	12.42	37.10	35.56	39.45	53.41	74.00	-20.59	peak



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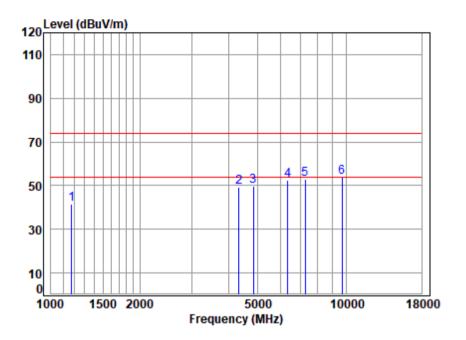


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT

Mode : 2422 TX RSE

: 2.4G WIFI 11AX40

: External ANT

		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	1175.697	3.54	24.30	37.79	51.37	41.42	74.00	-32.58	peak
2	4329.354	7.01	33.60	34.56	43.21	49.26	74.00	-24.74	peak
3	4844.000	7.34	33.98	34.89	43.19	49.62	74.00	-24.38	peak
4	6340.436	8.44	35.20	35.35	44.15	52.44	74.00	-21.56	peak
5	7266.000	9.25	35.83	35.96	43.78	52.90	74.00	-21.10	peak
6 a	9688.000	12.42	37.10	35.56	40.00	53.96	74.00	-20.04	neak



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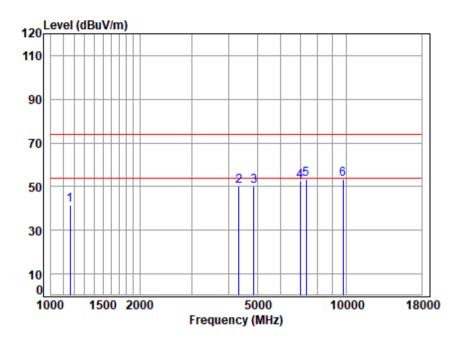


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX40

: External ANT

		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	1162.182	3.51	24.25	37.83	51.39	41.32	74.00	-32.68	peak
2	4329.354	7.01	33.60	34.56	43.95	50.00	74.00	-24.00	peak
3	4874.000	7.36	34.05	34.91	43.80	50.30	74.00	-23.70	peak
4	6974.982	8.90	35.75	35.89	43.80	52.56	74.00	-21.44	peak
5 q	7311.000	9.30	35.90	35.97	44.15	53.38	74.00	-20.62	peak
6	9748.000	12.46	37.20	35.56	39.06	53.16	74.00	-20.84	peak



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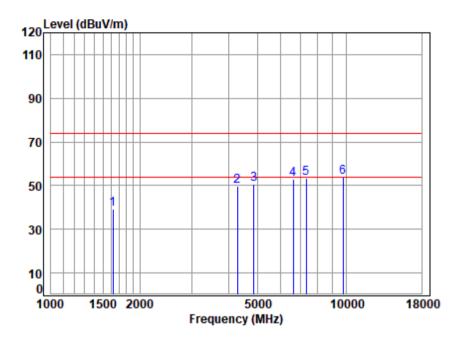


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX40

: External ANT

		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	1620.431	4.23	26.58	36.58	45.19	39.42	74.00	-34.58	peak
2	4291.977	6.99	33.60	34.54	43.89	49.94	74.00	-24.06	peak
3	4874.000	7.36	34.05	34.91	44.37	50.87	74.00	-23.13	peak
4	6621.375	8.65	35.60	35.60	44.16	52.81	74.00	-21.19	peak
5	7311.000	9.30	35.90	35.97	44.27	53.50	74.00	-20.50	peak
6 a	9748.000	12.46	37.20	35.56	39.69	53.79	74.00	-20.21	peak



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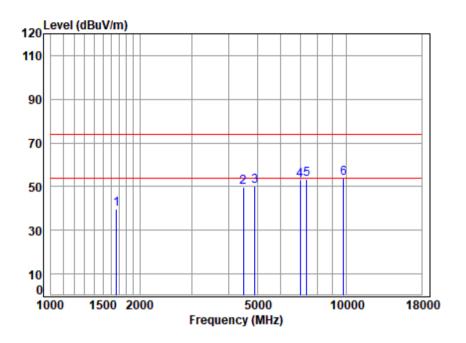


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m HORIZONTAL : 02331AT/02332AT

Mode : 2452 TX RSE

: 2.4G WIFI 11AX40

: External ANT

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	4.29	26.74	36.47	45.26	39.82	74.00	-34.18	peak
2	4495.125	7.12	33.50	34.67	43.68	49.63	74.00	-24.37	peak
3	4904.000	7.37	34.11	34.92	43.60	50.16	74.00	-23.84	peak
4	6995.172	8.92	35.79	35.91	44.16	52.96	74.00	-21.04	peak
5	7356.000	9.36	35.90	35.98	44.20	53.48	74.00	-20.52	peak
6 a	9808.000	12.50	37.22	35.57	39.70	53.85	74.00	-20.15	peak



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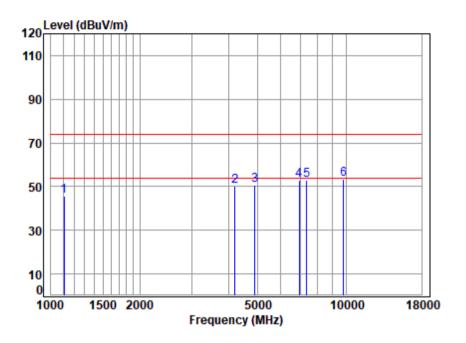


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Report No.: SZCR230700233112

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



Site : chamber

Condition: 3m VERTICAL

: 02331AT/02332AT

Mode : 2452 TX RSE

: 2.4G WIFI 11AX40

: External ANT

		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	1109.660	3.41	24.04	38.01	56.15	45.59	74.00	-28.41	peak
2	4206.011	6.93	33.42	34.48	44.25	50.12	74.00	-23.88	peak
3	4904.000	7.37	34.11	34.92	44.21	50.77	74.00	-23.23	peak
4	6934.778	8.87	35.67	35.86	44.04	52.72	74.00	-21.28	peak
5	7356.000	9.36	35.90	35.98	43.50	52.78	74.00	-21.22	peak
6 a	9808,000	12.50	37.22	35.57	39.18	53.33	74.00	-20.67	neak



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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2307002331AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2307002331AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

						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	/	/	0.688	1.194	57.62	2.39	1.33
802.11b	MIMO	2437	/	/	0.689	1.193	57.75	2.38	1.35
		2462	/	/	0.689	1.256	54.86	2.61	3.77
		2412	/	/	1.976	2.118	93.30	0.30	1.41
802.11g	MIMO	2437	/	/	1.976	2.154	91.74	0.37	3.07
		2462	/	/	1.977	2.154	91.78	0.37	2.77
000.44		2412	/	/	5.429	7.012	77.42	1.11	0.23
802.11n (HT20)	MIMO	2437	/	/	5.428	7.020	77.32	1.12	0.32
(11120)		2462	/	/	5.429	7.020	77.34	1.12	0.40
000.44		2422	/	/	5.426	7.017	77.33	1.12	0.32
802.11n (HT40)	MIMO	2437	/	/	5.429	7.012	77.42	1.11	0.32
(11140)		2452	/	/	5.429	7.020	77.34	1.12	0.33
000 44		2412	RU242	Left	5.443	7.027	77.46	1.11	0.29
802.11ax (HEW20)	MIMO	2437	RU242	Left	5.446	7.046	77.29	1.12	0.50
(1127720)		2462	RU242	Left	5.444	7.038	77.35	1.12	0.35
000 44		2422	RU484	Left	5.445	7.028	77.48	1.11	0.23
802.11ax (HEW40)	MIMO	2437	RU484	Left	5.444	7.054	77.18	1.13	0.52
(1127770)		2452	RU484	Left	5.444	7.027	77.47	1.11	0.23



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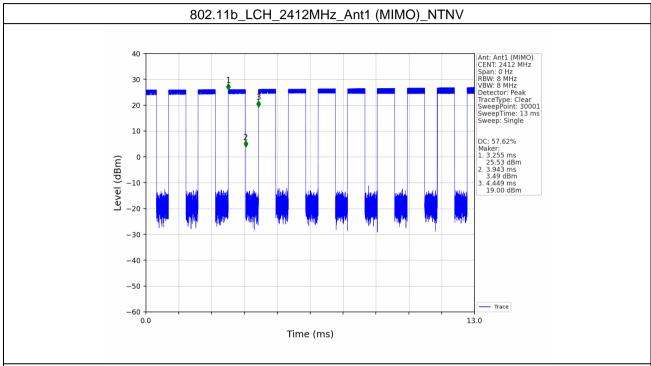
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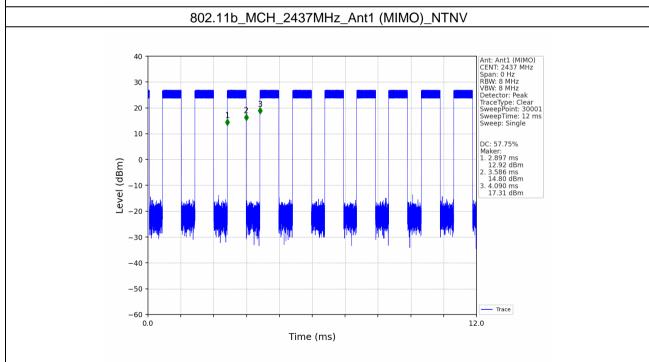
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1.2 Test Graph

1.2.1 Ant1







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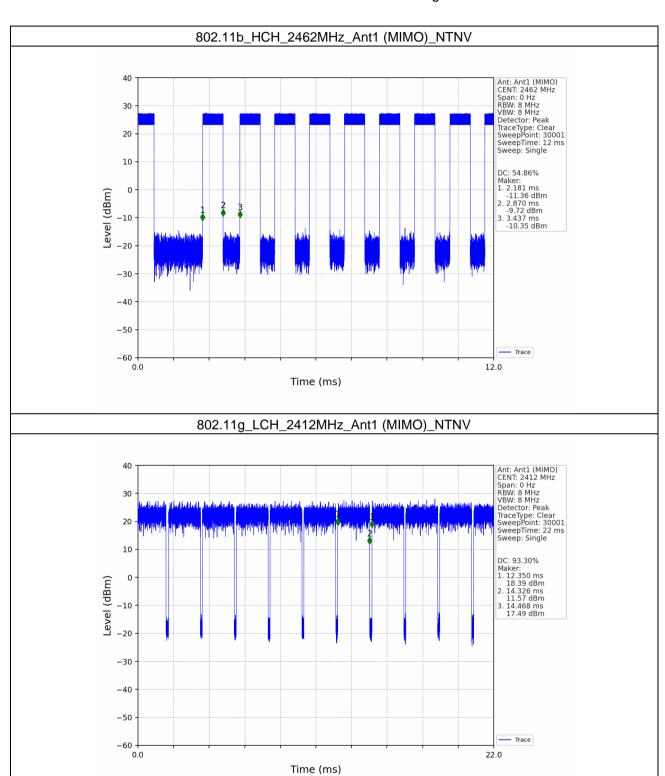
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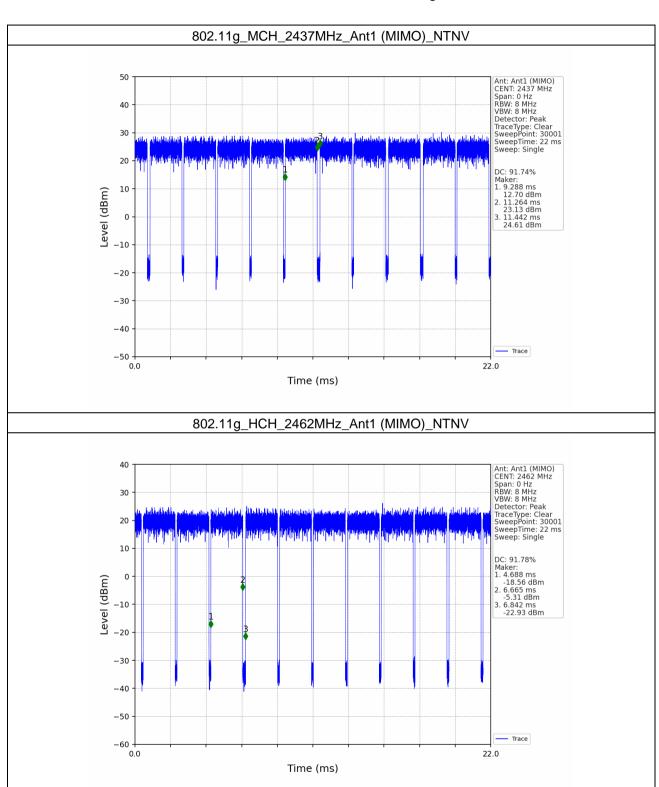
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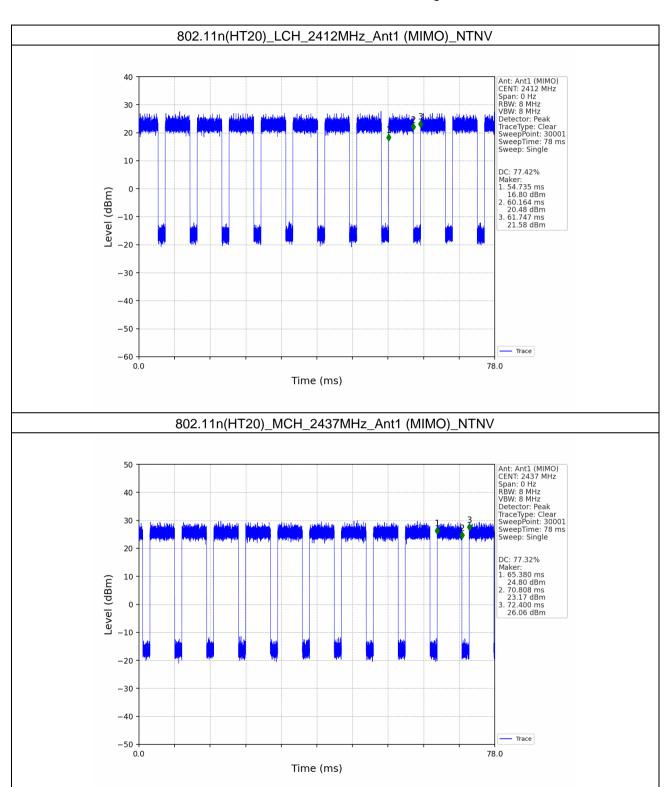
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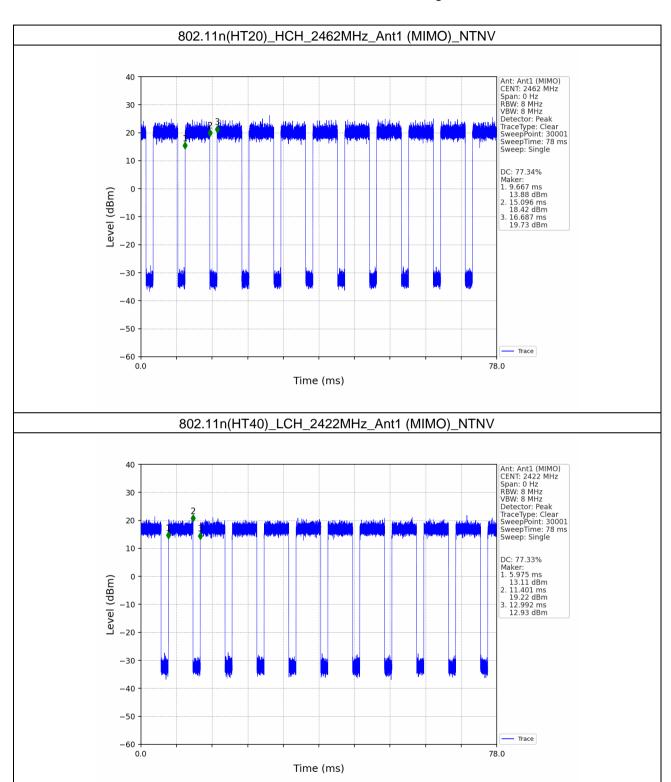
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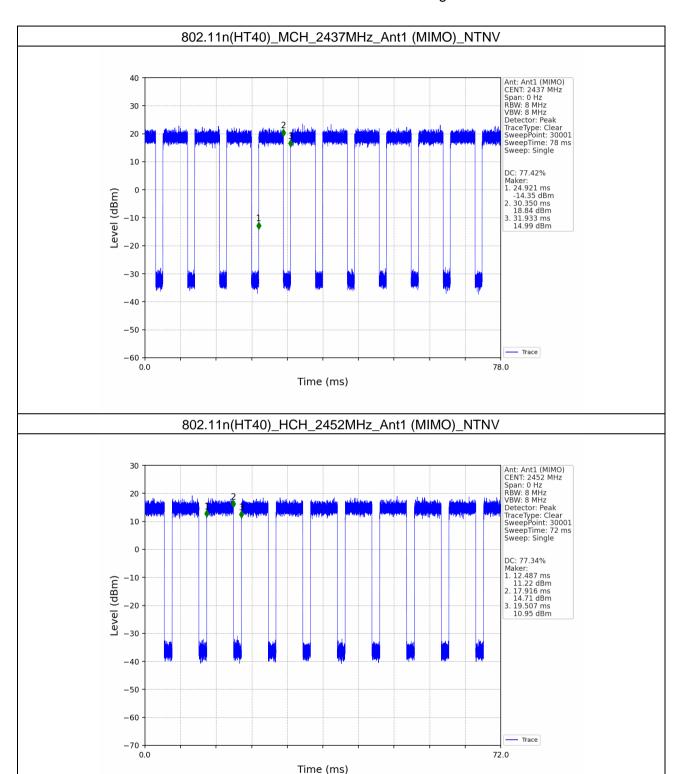
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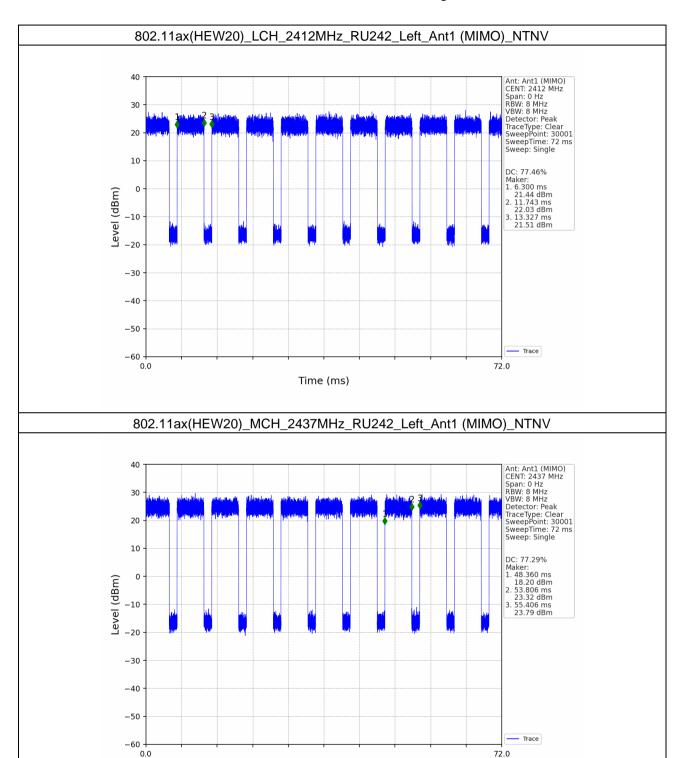
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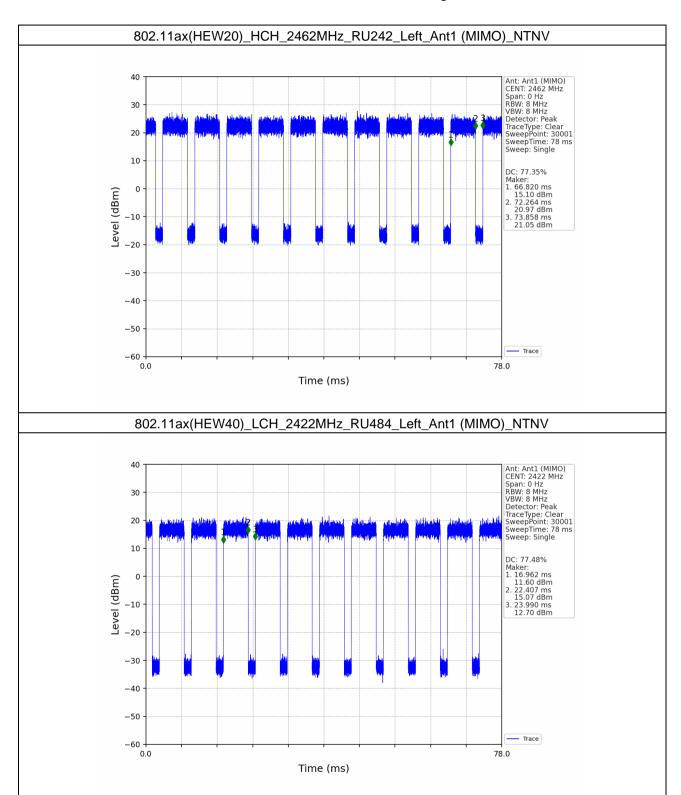
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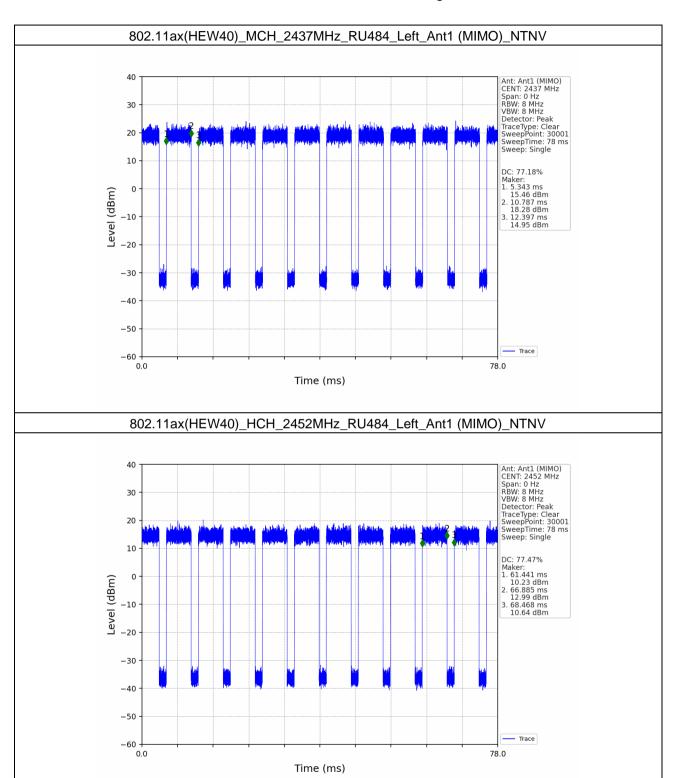
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Marilan
						Result	Limit	Verdict
802.11b	MIMO	2412	/	/	1	13.016	/	Pass
		2437	/	/	1	13.038	/	Pass
		2462	/	/	1	13.033	/	Pass
802.11g	MIMO	2412	/	/	1	16.787	/	Pass
		2437	/	/	1	16.854	/	Pass
		2462	/	/	1	16.795	/	Pass
000.44	MIMO	2412	/	/	1	17.841	/	Pass
802.11n (HT20)		2437	/	/	1	17.868	/	Pass
(11120)		2462	/	/	1	17.866	/	Pass
000 44	MIMO	2422	/	/	1	36.309	/	Pass
802.11n (HT40)		2437	/	/	1	36.359	/	Pass
		2452	/	/	1	36.318	/	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	19.086	/	Pass
		2437	RU242	Left	1	19.091	/	Pass
		2462	RU242	Left	1	19.063	/	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	37.987	/	Pass
		2437	RU484	Left	1	38.057	/	Pass
		2452	RU484	Left	1	38.023	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Vardiet
			KU			Result	Limit	Verdict
802.11b	МІМО	2412	/	/	1	8.043	>=0.5	Pass
		2437	/	/	1	8.090	>=0.5	Pass
		2462	/	/	1	8.075	>=0.5	Pass
802.11g	MIMO	2412	/	/	1	16.342	>=0.5	Pass
		2437	/	/	1	16.344	>=0.5	Pass
		2462	/	/	1	16.357	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.595	>=0.5	Pass
		2437	/	/	1	17.582	>=0.5	Pass



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		2462	/	/	1	17.580	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	35.970	>=0.5	Pass
		2437	/	/	1	36.322	>=0.5	Pass
		2452	/	/	1	35.681	>=0.5	Pass
802.11ax (HEW20)	МІМО	2412	RU242	Left	1	19.026	>=0.5	Pass
		2437	RU242	Left	1	18.971	>=0.5	Pass
		2462	RU242	Left	1	19.007	>=0.5	Pass
802.11ax (HEW40)	МІМО	2422	RU484	Left	1	37.873	>=0.5	Pass
		2437	RU484	Left	1	37.806	>=0.5	Pass
		2452	RU484	Left	1	37.866	>=0.5	Pass



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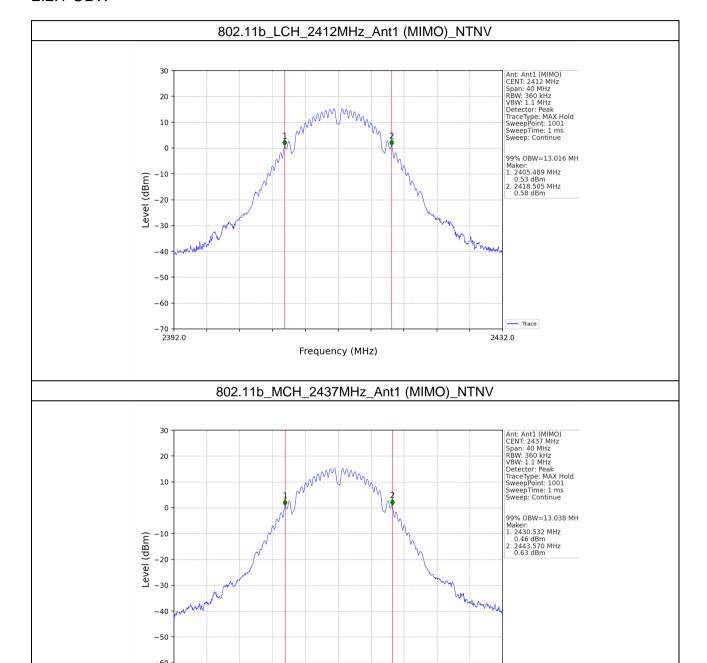
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2.2 Test Graph

2.2.1 OBW





-70 |--- 2417.0

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Frequency (MHz)

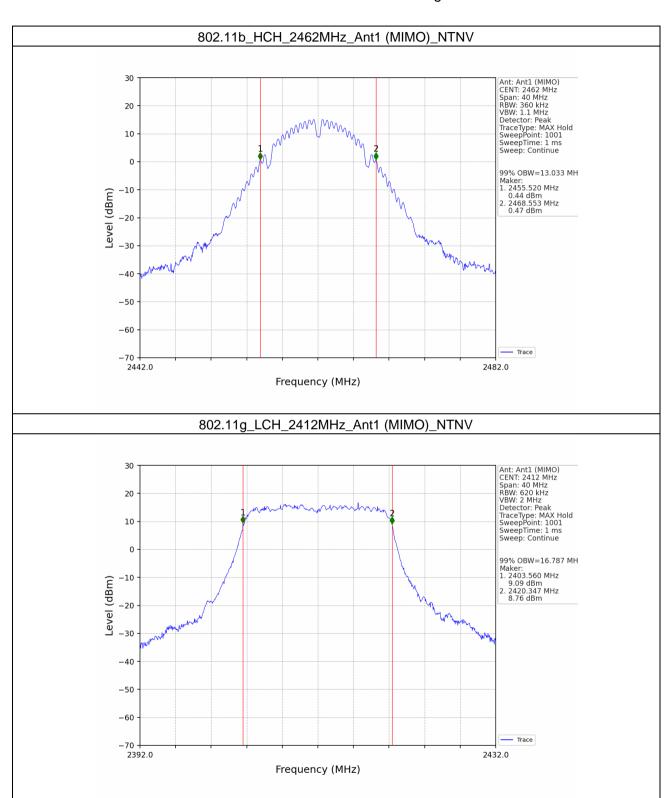
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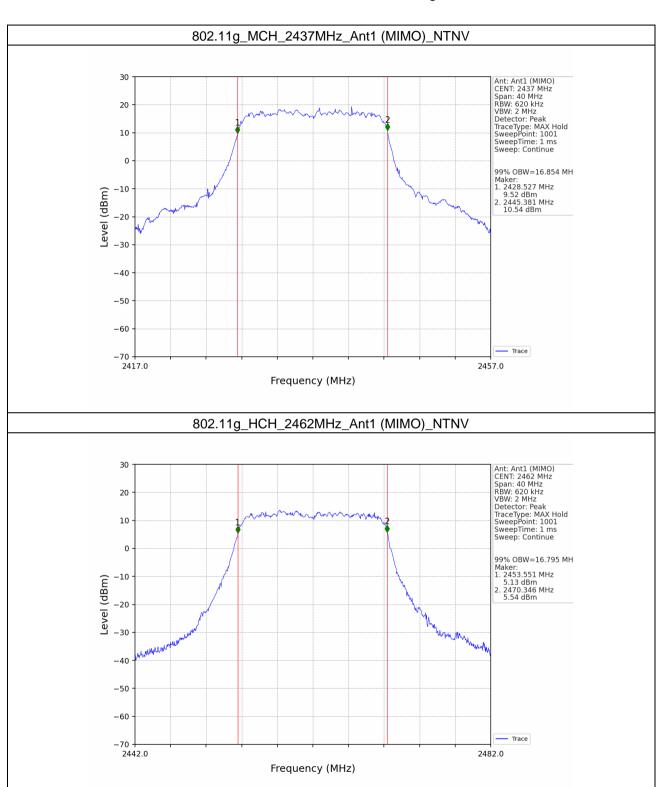
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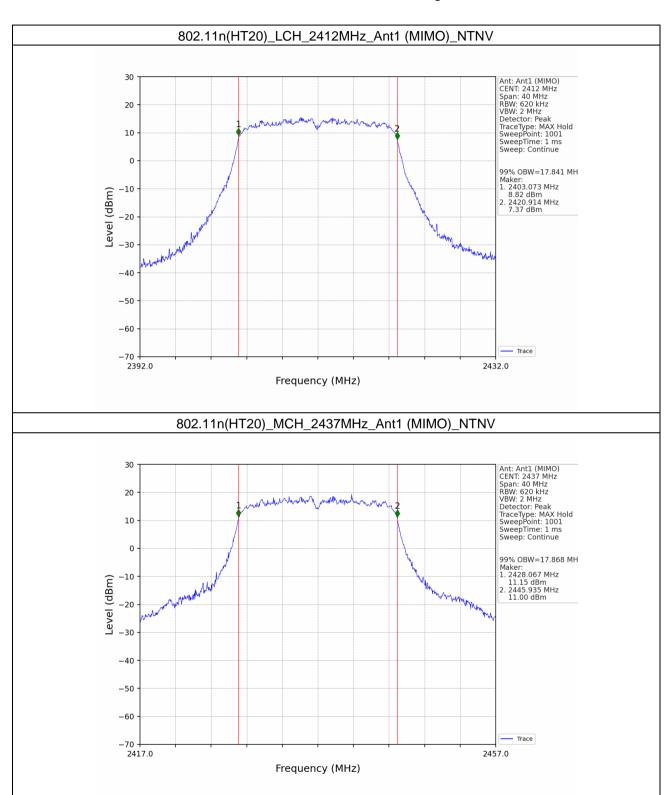
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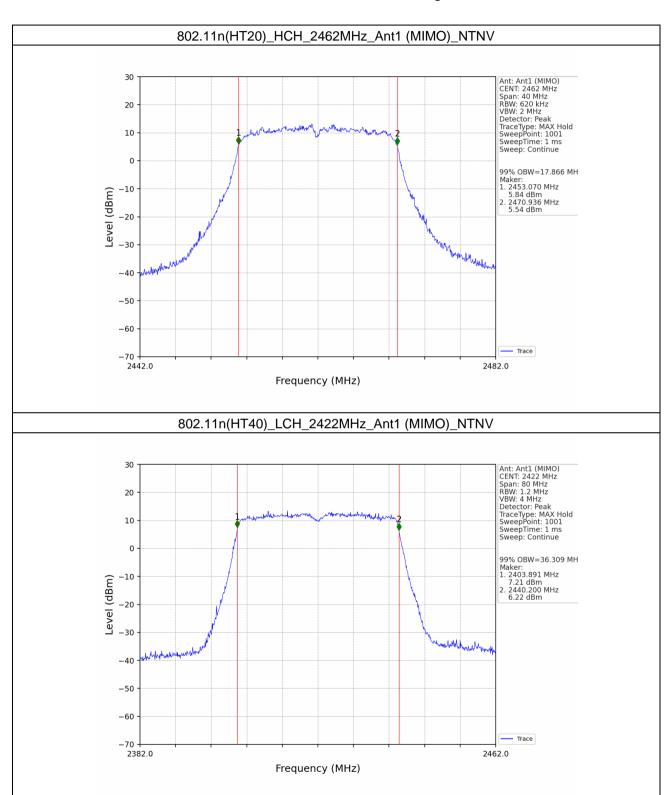
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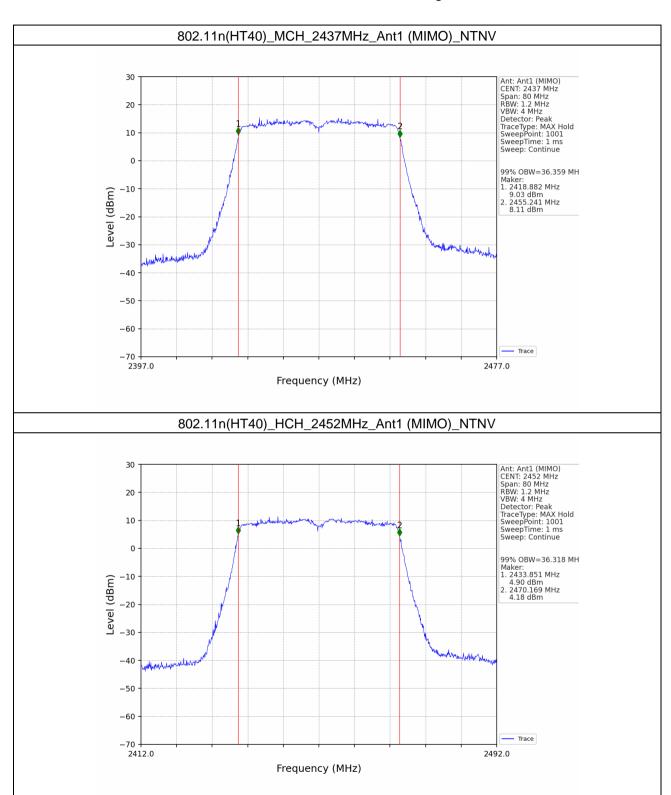
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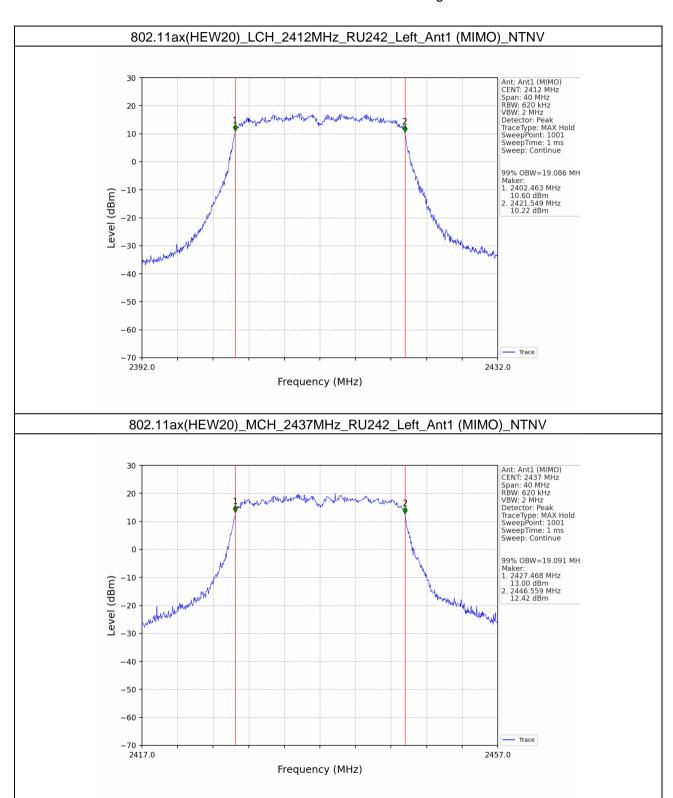
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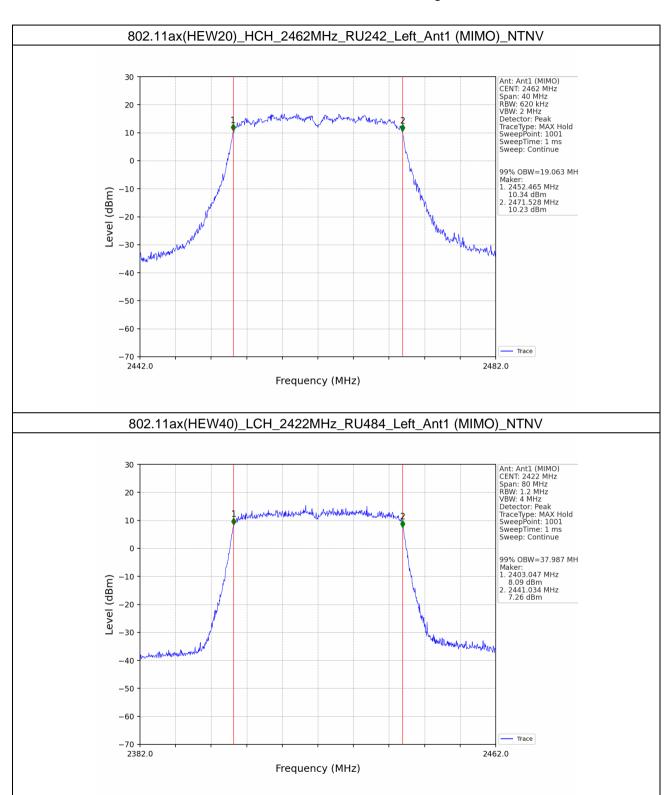
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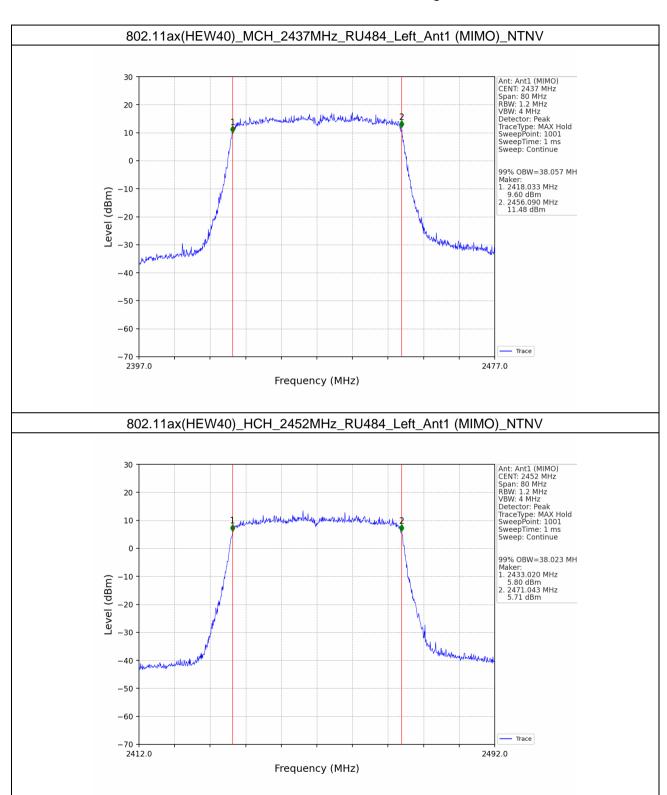
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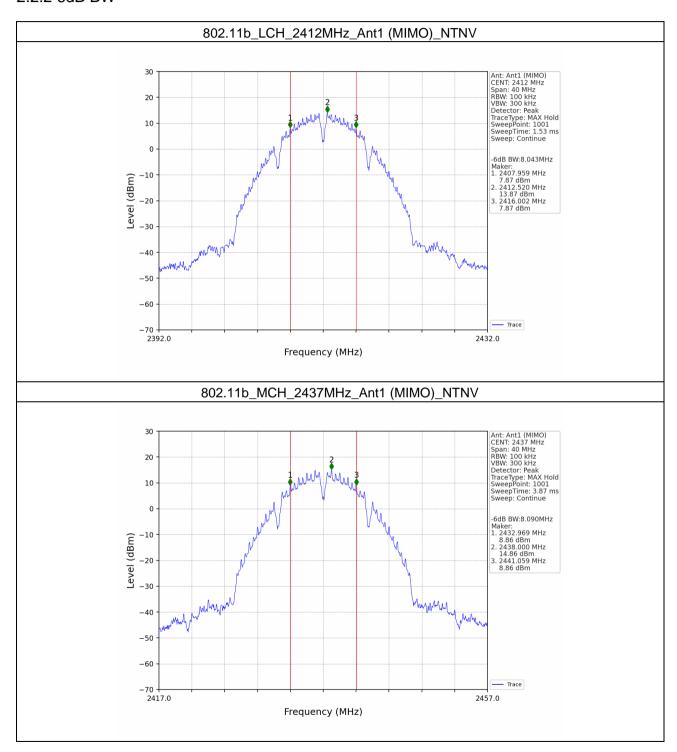


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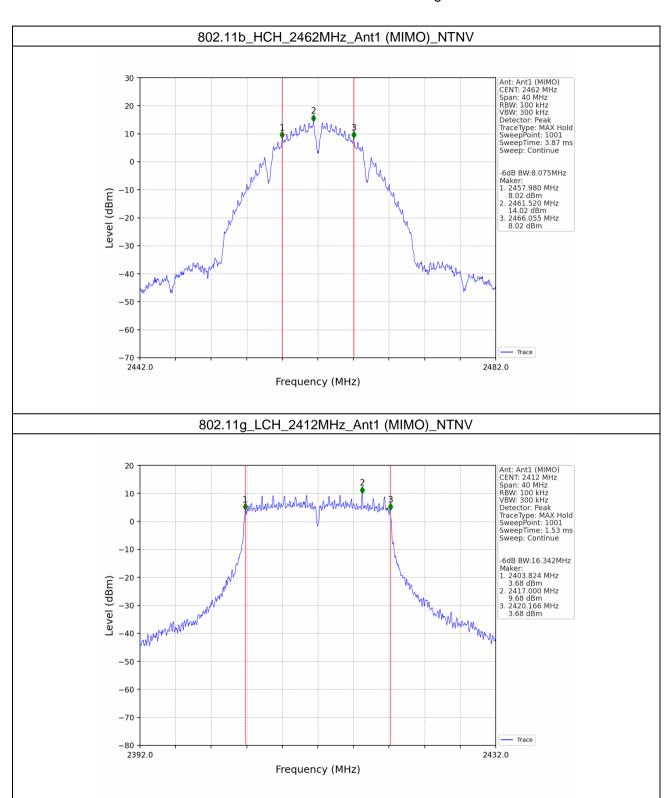
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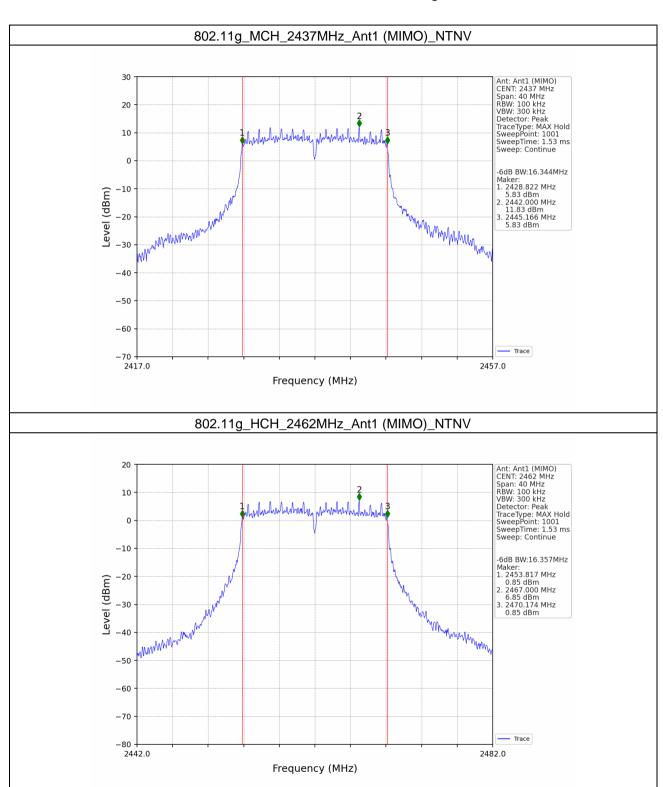
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