

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

Report No.: SZCR230400120602

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TEST REPORT

Application No.: SZCR2304001206AT

Applicant: GL Technologies (Hong Kong) Limited

Address of Applicant: Unit 601, Building 5W Hong Kong Science Park, Shatin, N.T., Hong Kong

Manufacturer: Shenzhen Guanglian Zhitong Technology Co., LTD

Address of Manufacturer: Room 305-306, Skyworth Digital Building, Shiyan Street, Baoan District,

Shenzhen, China

Factory: Shenzhen Guanglian Zhitong Technology Co., LTD

Address of Factory: Room 305-306, Skyworth Digital Building, Shiyan Street, Baoan District,

Shenzhen, China

Equipment Under Test (EUT):

EUT Name: 5G NR Wi-Fi 6 Router

Model No.: GL-XE3000NR

Trade Mark: GL.iNET

FCC ID: 2AFIW-XE3000NR

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

Date of Receipt: 2023-04-25

Date of Test: 2023-05-09 to 2023-06-20

Date of Issue: 2023-06-30

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		2023-06-30		Original			

Authorized for issue by:		
	Frank Chen	
	Frank Chen/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 Peak Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Minimum 6dB Bandwidth		ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass		
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement	47 CFR Part 15,	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions	Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		



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General Information

Details of E.U.T. 4.1

Lithium-ion rechargeable battery (DC 7.4V 6400mAh) which can be charged from AC adapter.
Adapter Model: ICP30A-120-2500
Input: AC 100-240V 50/60Hz 0.8A
Output: DC 12V 2.5A.
DC cable:100cm unshielded
Network cable:70cm unshielded
802.11b/g/n(HT20)/ax(HEW20): 2412MHz to 2462MHz,
802.11n(HT40)/ax(HEW40): 2422MHz to 2452MHz
802.11b: DSSS (CCK, DQPSK, DBPSK),
802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
802.11ax: OFDMA(16QAM, 64QAM, 256QAM, 1024QAM, QPSK, BPSK)
802.11b/g/n(HT20)/ax(HEW20): 11, 802.11n(HT40)/ax(HEW40):7
5MHz
Dipole Antenna
ANT1 & ANT2: 1.63dBi; Directional Gain:4.64dBi.

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.						

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m



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Radiated Spurious Emissions Above 1GHz

± 4.6dB (1-18GHz);± 4.8dB (18-

40GHz)

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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	2023-03-20	2024-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2022-07-08	2023-07-07	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19	

Conducted Peak Output Power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31	
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30	

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

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



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

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

Radiated Emissions which fall in the restricted bands									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01				
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19				
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23				
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07				
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09				
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19				



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

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

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



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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 connector is RP-SMA-J, not readily available to general public and no consideration of replacement. The best case gain of the Dipole antenna is ANT1 &ANT2: 1.63dBi. Directional Gain:4.64dBi.

Antenna location: Refer to internal 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 emission/MUs	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	he frequency.				
Detector: Peak for pre-scan (9kHz	resolution bandwidth) 0.15M to 30)MHz			

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 50.1 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

		· '
Pre-scan / Final test	Mode Code	Description
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6.5Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report



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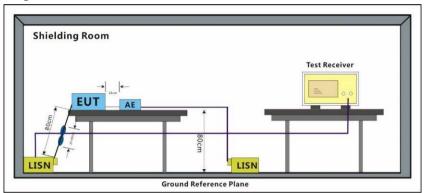


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7.1.3 Test Setup Diagram



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 + 50hm 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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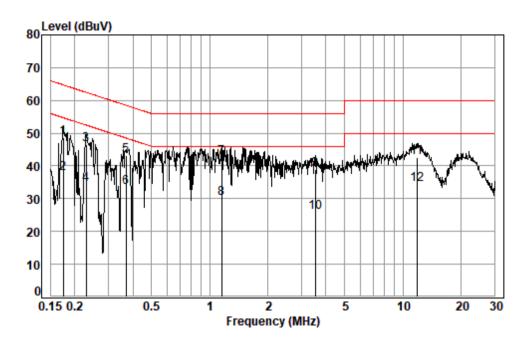


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Test Mode: 01; Line: Live line



: Shielding Room

Condition: Line Job No. : 01206AT

Test mode: 01

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1749	0.03	9.76	38.79	48.58	64.72	-16.14	QP
2	0.1749	0.03	9.76	28.04	37.83	54.72	-16.89	Average
3	0.2292	0.04	9.76	36.64	46.44	62.48	-16.04	QP
4	0.2292	0.04	9.76	24.60	34.40	52.48	-18.08	Average
5	0.3692	0.05	9.76	33.50	43.31	58.52	-15.21	QP
6 *	0.3692	0.05	9.76	23.78	33.59	48.52	-14.93	Average
7 *	1.1534	0.08	9.79	32.69	42.56	56.00	-13.44	QP
8	1.1534	0.08	9.79	20.34	30.21	46.00	-15.79	Average
9	3.5278	0.13	9.86	29.10	39.09	56.00	-16.91	QP
10	3.5278	0.13	9.86	15.90	25.89	46.00	-20.11	Average
11	11.8697	0.18	10.39	32.10	42.67	60.00	-17.33	QP
12	11.8697	0.18	10.39	23.91	34.48	50.00	-15.52	Average



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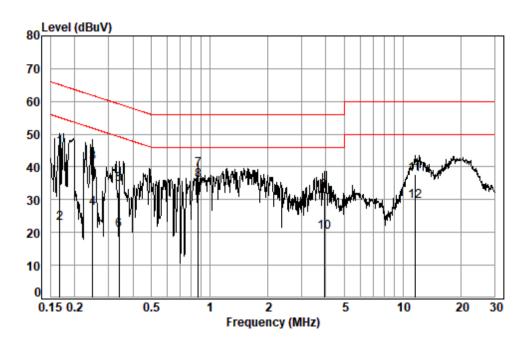


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Test Mode: 01; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 01206AT

Test mode: 01

	F	Cable	LISN	Read	1 1	Limit	0ver	Dl-
	Freq	LOSS	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1677	0.03	9.73	36.12	45.88	65.08	-19.20	QP
2	0.1677	0.03	9.73	12.91	22.67	55.08	-32.41	Average
3	0.2481	0.04	9.73	31.55	41.32	61.82	-20.50	QP
4	0.2481	0.04	9.73	17.62	27.39	51.82	-24.43	Average
5	0.3392	0.05	9.74	24.93	34.72	59.22	-24.50	QP
6	0.3392	0.05	9.74	10.90	20.69	49.22	-28.53	Average
7 *	0.8710	0.07	9.76	29.31	39.14	56.00	-16.86	QP
8 *	0.8710	0.07	9.76	26.11	35.94	46.00	-10.06	Average
9	3.9222	0.14	9.87	22.56	32.57	56.00	-23.43	QP
10	3.9222	0.14	9.87	10.01	20.02	46.00	-25.98	Average
11	11.5594	0.18	10.43	27.10	37.71	60.00	-22.29	QP
12	11.5594	0.18	10.43	18.96	29.57	50.00	-20.43	Average

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7.2 Conducted Peak Output Power

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

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)				
	1 for ≥50 hopping channels				
902-928	0.25 for 25≤ hopping channels <50				
	1 for digital modulation				
2400-2483.5	1 for ≥75 non-overlapping hopping channels				
	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:

Humidity: 40.2 % RH Temperature: 26.8 °C Atmospheric Pressure: 1015 mbar

7.2.2 Tost Mode Description

7.2.2 TCSt IV	7.2.2 Test Mode Description						
Pre-scan / Final test	Mode Code	Description					
Pre-scan	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report					
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6.5Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report					



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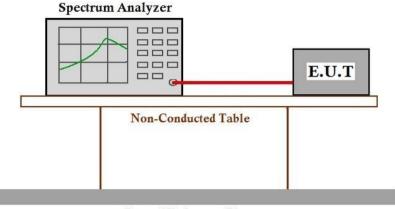


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7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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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:

Temperature: Atmospheric Pressure: 1015 mbar 26.8 °C Humidity: 40.2 % RH

7.3.2 Test Mode Description

7.3.2 Test Mode Description					
Pre-scan / Final test	Mode Code	Description			
Pre-scan	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report			
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report			



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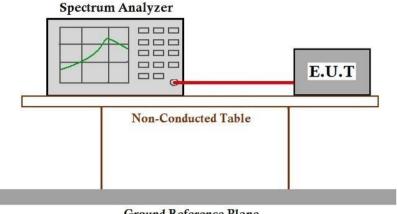


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7.3.3 Test Setup Diagram



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: Atmospheric Pressure: 1015 mbar 26.8 °C Humidity: 40.2 % RH

7.4.2 Test Mode Description

7.4.2 Test IV	7.4.2 Test Mode Description						
Pre-scan / Final test	Mode Code	Description					
Pre-scan	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report					
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report					



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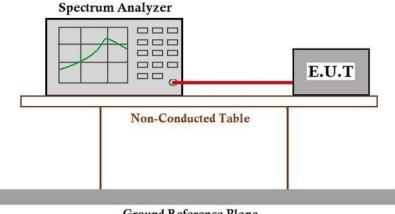


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7.4.3 Test Setup Diagram



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: 26.8 °C Humidity: 40.2 % RH Atmospheric Pressure: 1015 mbar

7.5.2 Test Mode Description

	7.0.2 Test mode bescription					
Pre-scan / Final test	Mode Code	Description				
Pre-scan	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ 8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report				
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report				



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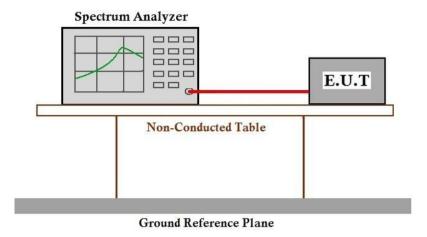


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7.5.3 Test Setup Diagram



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: 26.8 °C Humidity: 40.2 % RH Atmospheric Pressure: 1015 mbar

7.6.2 Test Mode Description

	7.0.2 Test mode bescription					
Pre-scan / Final test	Mode Code	Description				
Pre-scan	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ 8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report				
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report				



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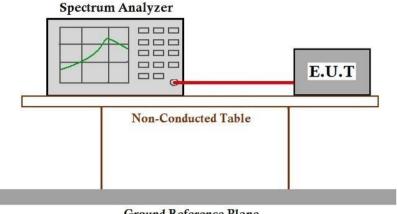


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7.6.3 Test Setup Diagram



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: 25.2 °C Humidity: 54.6 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report



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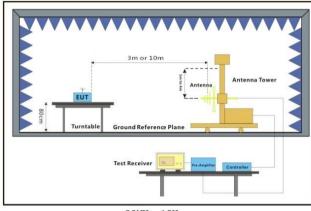


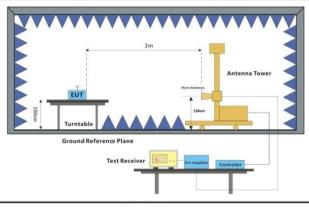
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7.7.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.7.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- q. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: Considering to all operation modes, pre-scan were performed on the middle channel to determine the worst-case mode(s). Only the data of worst case is recorded in the report.



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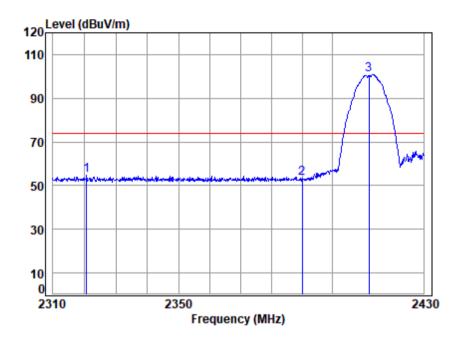


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT Mode : 2412 Band edge : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2320.670	4.18	28.48	35.67	57.67	54.66	74.00	-19.34	peak	
2	2390.000	4.25	28.76	35.64	56.18	53.55	74.00	-20.45	peak	
3 q	2412.000	4.27	28.87	35.63	103.42	100.93	74.00	26.93	peak	



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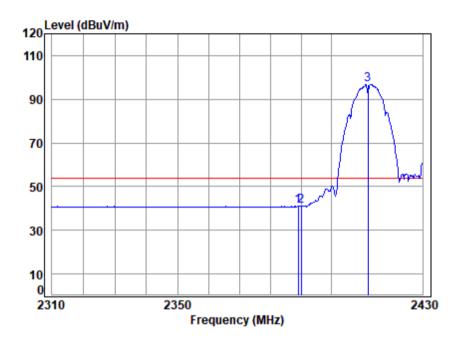


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT Mode : 2412 Band edge Note : 2.4G WIFI 11B

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.121	4.25	28.76	35.64	43.81	41.18	54.00	-12.82	Average
2	2390.000	4.25	28.76	35.64	43.53	40.90	54.00	-13.10	Average
3 q	2412.000	4.27	28.87	35.63	99.28	96.79	54.00	42.79	Average



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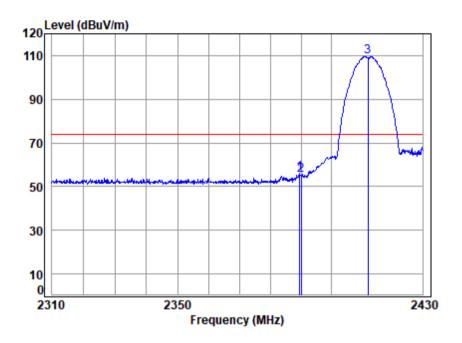


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT Mode : 2412 Band edge . 2 4G WTFT 11R Note

ote	: 2.	4G WIF	T TID							
		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	2389.605	4.25	28.76	35.64	58.70	56.07	74.00	-17.93	Peak	
2	2390.000	4.25	28.76	35.64	57.68	55.05	74.00	-18.95	Peak	
3 a	2412.000	4.27	28.87	35.63	112.22	109.73	74.00	35.73	Peak	



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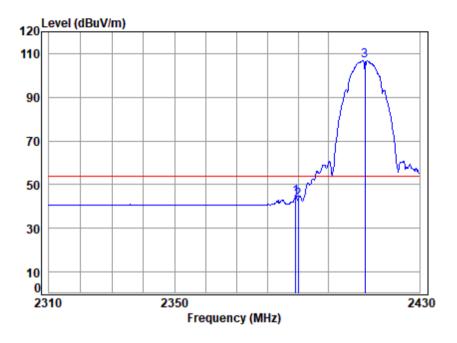


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT Mode : 2412 Band edge : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.242	4.25	28.76	35.64	46.98	44.35	54.00	-9.65	Average	
2	2390.000	4.25	28.76	35.64	45.74	43.11	54.00	-10.89	Average	
3 q	2412.000	4.27	28.87	35.63	109.47	106.98	54.00	52.98	Average	



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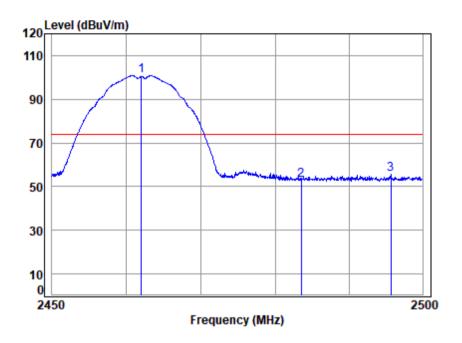


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT Mode : 2462 Band edge Note : 2.4G WIFI 11B

	Freq		Ant Factor						Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	4.32	29.17	35.62	102.83	100.70	74.00	26.70	peak
2	2483.500	4.34	29.30	35.61	55.05	53.08	74.00	-20.92	peak
3	2495.660	4.36	29.37	35.60	57.45	55.58	74.00	-18.42	peak



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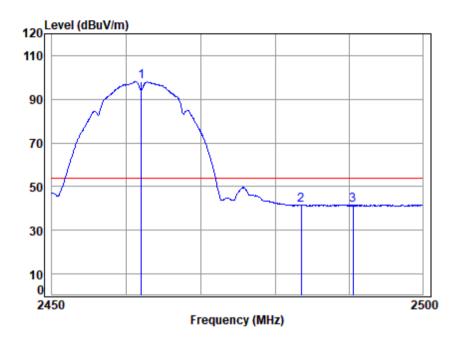


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT Mode : 2462 Band edge Note : 2.4G WIFI 11B

	Freq						Limit Line		Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1 (2462.000	4.32	29.17	35.62	100.26	98.13	54.00	44.13	Average	
2	2483.500	4.34	29.30	35.61	43.50	41.53	54.00	-12.47	Average	
3	2490.573	4.35	29.34	35.61	43.57	41.65	54.00	-12.35	Average	



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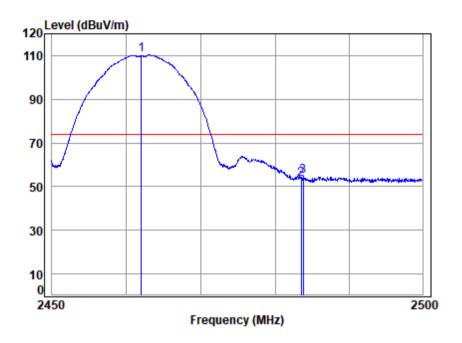


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT Mode : 2462 Band edge . 2 4G WIFT 11R Note

Le	: Z.	#G MIL	T TID							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
							•			
q	2462.000	4.32	29.17	35.62	112.49	110.36	74.00	36.36	Peak	
2	2483.500	4.34	29.30	35.61	55.15	53.18	74.00	-20.82	Peak	
3	2483.790	4.34	29.30	35.61	56.59	54.62	74.00	-19.38	Peak	



1 2

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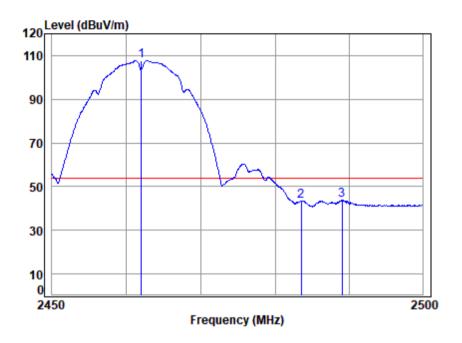


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Report No.: SZCR230400120602

Page: 35 of 184

Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT Mode : 2462 Band edge : 2.4G WIFI 11B Note

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2462.000	4.32	29.17	35.62	109.89	107.76	54.00	53.76	Average
2483.500	4.34	29.30	35.61	45.23	43.26	54.00	-10.74	Average
2489.064	4.35	29.33	35.61	45.73	43.80	54.00	-10.20	Average
	MHz 2462.000 2483.500	Freq Loss MHz dB 2462.000 4.32 2483.500 4.34	Freq Loss Factor MHz dB dB/m 2462.000 4.32 29.17 2483.500 4.34 29.30	Freq Loss Factor Factor MHz dB dB/m dB 2462.000 4.32 29.17 35.62 2483.500 4.34 29.30 35.61	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2462.000 4.32 29.17 35.62 109.89 2483.500 4.34 29.30 35.61 45.23	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2462.000 4.32 29.17 35.62 109.89 107.76 2483.500 4.34 29.30 35.61 45.23 43.26	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB uV dBuV dBuV/m dBuV/m dBuV/m 2462.000 4.32 29.17 35.62 109.89 107.76 54.00 2483.500 4.34 29.30 35.61 45.23 43.26 54.00	Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2462.000 4.32 29.17 35.62 109.89 107.76 54.00 53.76 2483.500 4.34 29.30 35.61 45.23 43.26 54.00 -10.74 2489.064 4.35 29.33 35.61 45.73 43.80 54.00 -10.20



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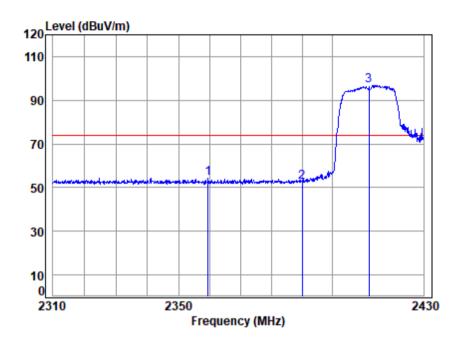


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT 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	
2359.541	4.22	28.64	35.65	57.25	54.46	74.00	-19.54	peak
2390.000	4.25	28.76	35.64	55.25	52.62	74.00	-21.38	peak
2412.000	4.27	28.87	35.63	99.32	96.83	74.00	22.83	peak
	MHz 2359.541 2390.000	Freq Loss MHz dB 2359.541 4.22 2390.000 4.25	Freq Loss Factor MHz dB dB/m 2359.541 4.22 28.64 2390.000 4.25 28.76	Freq Loss Factor Factor MHz dB dB/m dB 2359.541 4.22 28.64 35.65 2390.000 4.25 28.76 35.64	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2359.541 4.22 28.64 35.65 57.25 2390.000 4.25 28.76 35.64 55.25	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2359.541 4.22 28.64 35.65 57.25 54.46 2390.000 4.25 28.76 35.64 55.25 52.62	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB uV dBuV dBuV/m dBuV/m dBuV/m 2359.541 4.22 28.64 35.65 57.25 54.46 74.00 2390.000 4.25 28.76 35.64 55.25 52.62 74.00	Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2359.541 4.22 28.64 35.65 57.25 54.46 74.00 -19.54 2390.000 4.25 28.76 35.64 55.25 52.62 74.00 -21.38 2412.000 4.27 28.87 35.63 99.32 96.83 74.00 22.83



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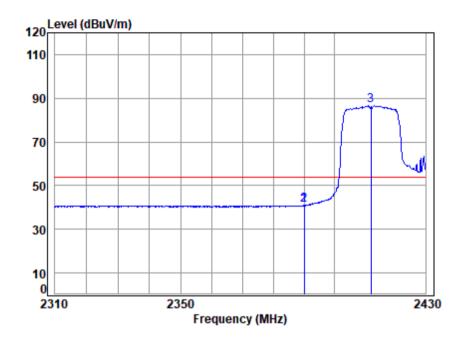


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT Mode : 2412 Band edge Note : 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	1 25	28 76	35 64	43 66	<i>1</i> 1 03	54 00	-12 97	Average
									Average
	2412.000								_



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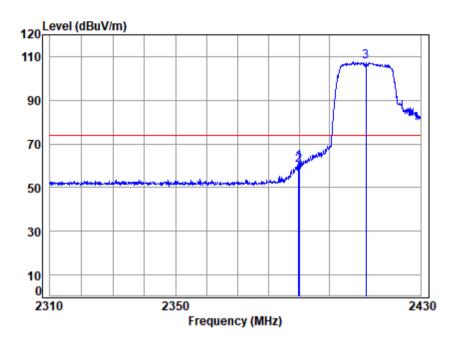


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT Mode : 2412 Band edge . 2.46 WTFT 11N2A Note

ote	: Z.	4G WIF	T TIME	9						
		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	2389.847	4.25	28.76	35.64	64.37	61.74	74.00	-12.26	Peak	
2	2390.000	4.25	28.76	35.64	62.94	60.31	74.00	-13.69	Peak	
3 a	2412.000	4.27	28.87	35.63	110.09	107.60	74.00	33.60	Peak	



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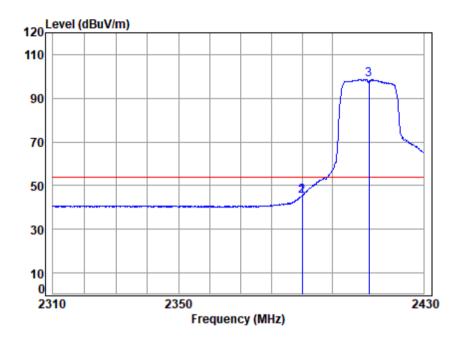


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT 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	4.25	28.76	35.64	47.96	45.33	54.00	-8.67	Average	
2	2390.000	4.25	28.76	35.64	47.96	45.33	54.00	-8.67	Average	
3 0	2412.000	4.27	28.87	35.63	101.14	98.65	54.00	44.65	Average	



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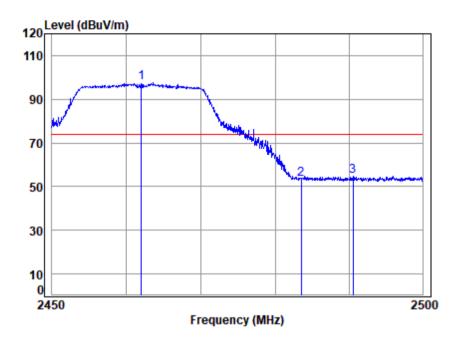


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT Mode : 2462 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	q 24	62.000	4.32	29.17	35.62	99.66	97.53	74.00	23.53	peak
2	24	83.500	4.34	29.30	35.61	55.48	53.51	74.00	-20.49	peak
3	24	190.523	4.35	29.34	35.61	56.89	54.97	74.00	-19.03	peak



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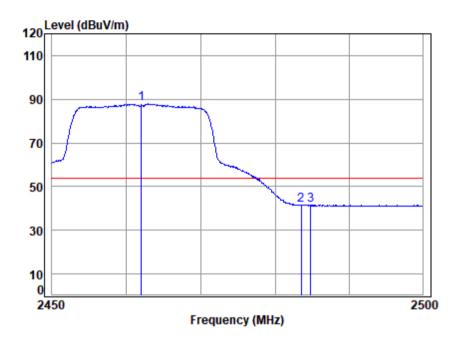


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT : 2462 Band edge Mode Note : 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0	2462.000	4.32	29.17	35.62	89.98	87.85	54.00	33.85	Average
2	2483.500	4.34	29.30	35.61	43.35	41.38	54.00	-12.62	Average
3	2484.793	4.35	29.31	35.61	43.43	41.48	54.00	-12.52	Average



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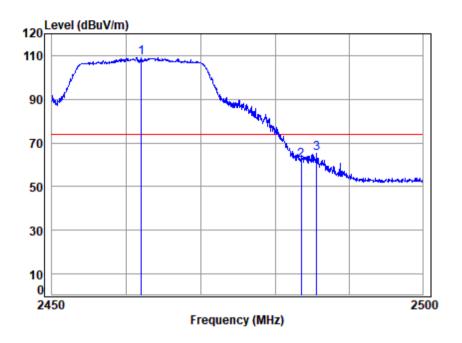


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT Mode : 2462 Band edge . 2.46 WTFT 11N2A Note

ore	: Z.	4G WIF	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 q	2462.000	4.32	29.17	35.62	111.37	109.24	74.00	35.24	Peak	
2	2483.500	4.34	29.30	35.61	63.89	61.92	74.00	-12.08	Peak	
3	2485.597	4.35	29.31	35.61	67.26	65.31	74.00	-8.69	Peak	



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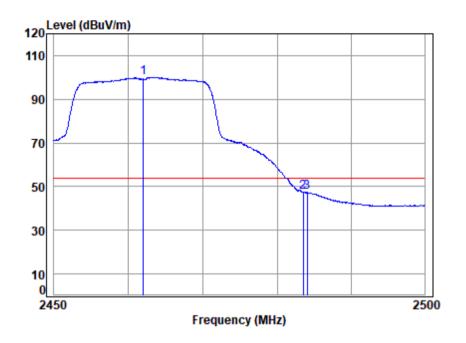


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT Mode : 2462 Band edge . 2.46 WTFT 11N2A Note

ore	: Z.	4G WIF	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 q	2462.000	4.32	29.17	35.62	102.17	100.04	54.00	46.04	Average	
2	2483.500	4.34	29.30	35.61	49.27	47.30	54.00	-6.70	Average	
3	2484.041	4.34	29.30	35.61	49.22	47.25	54.00	-6.75	Average	



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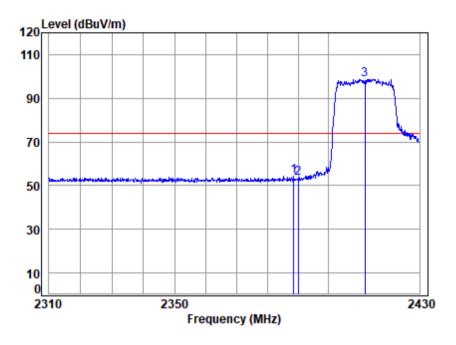


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT 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	2388.637	4.25	28.75	35.64	57.14	54.50	74.00	-19.50	peak
2	2390.000	4.25	28.76	35.64	55.84	53.21	74.00	-20.79	peak
3 q	2412.000	4.27	28.87	35.63	101.23	98.74	74.00	24.74	peak



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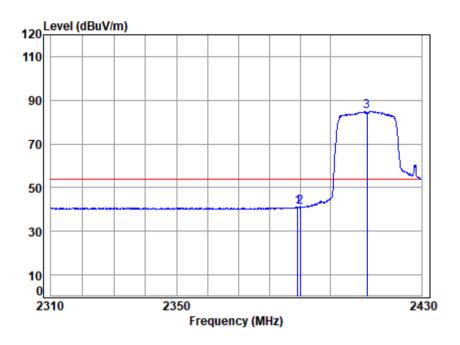


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT Mode : 2412 Band edge Note : 2.4G WIFI 11AX20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.242	4.25	28.76	35.64	43.73	41.10	54.00	-12.90	Average
2	2390.000	4.25	28.76	35.64	43.54	40.91	54.00	-13.09	Average
3 q	2412.000	4.27	28.87	35.63	87.56	85.07	54.00	31.07	Average



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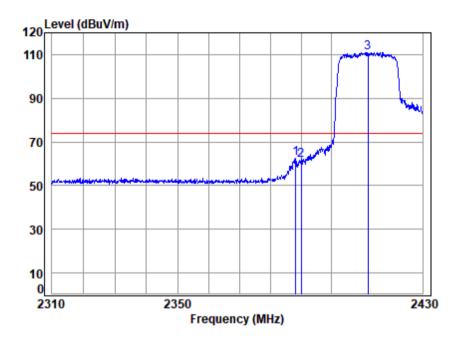


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT : 2412 Band edge Mode · 2 4G WTET 110X20 Note

ote	: Z.	4G WIF	T TIAN	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	2388.274	4.25	28.75	35.64	65.07	62.43	74.00	-11.57	Peak	
2	2390.000	4.25	28.76	35.64	64.08	61.45	74.00	-12.55	Peak	
3 a	2412.000	4.27	28.87	35.63	113.57	111.08	74.00	37.08	Peak	



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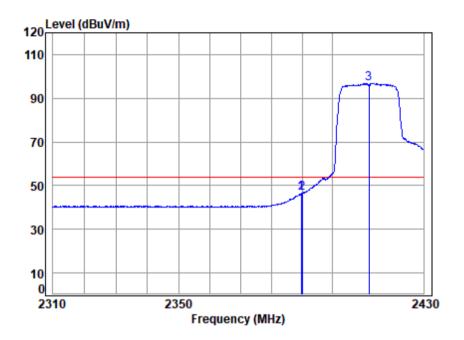


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT 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	2389.726	4.25	28.76	35.64	49.00	46.37	54.00	-7.63	Average
2	2390.000	4.25	28.76	35.64	48.96	46.33	54.00	-7.67	Average
3 q	2412.000	4.27	28.87	35.63	99.42	96.93	54.00	42.93	Average



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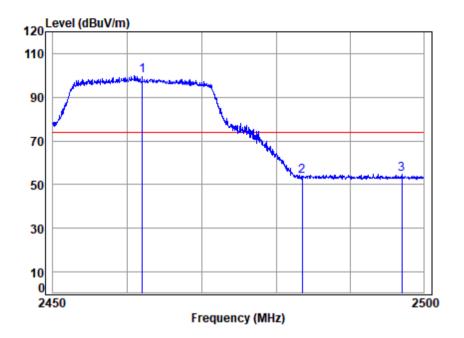


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT Mode : 2462 Band edge Note : 2.4G WIFI 11AX20

it Over
ne Limit Remark
/m dB
00 25.99 peak
-
00 -20.03 peak
00 -19.16 peak



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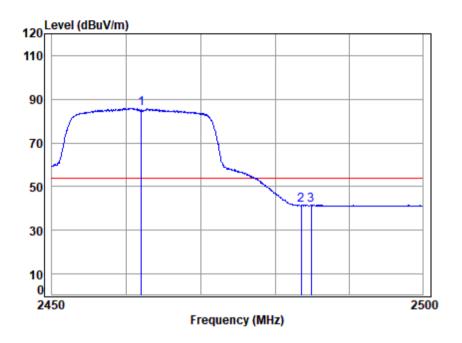


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT Mode : 2462 Band edge Note : 2.4G WIFI 11AX20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	4.32	29.17	35.62	87.95	85.82	54.00	31.82	Average
2	2483.500	4.34	29.30	35.61	43.31	41.34	54.00	-12.66	Average
3	2484.894	4.35	29.31	35.61	43.45	41.50	54.00	-12.50	Average



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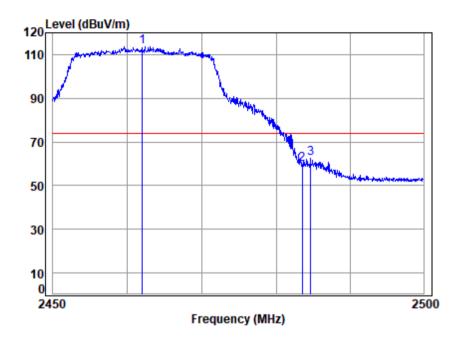


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT Mode : 2462 Band edge Note · 2 4G WTET 11AX20

ore	: Z.	4G WIF	I IIAN	20					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	4.32	29.17	35.62	115.63	113.50	74.00	39.50	Peak
2	2483.500	4.34	29.30	35.61	61.59	59.62	74.00	-14.38	Peak
3	2484.643	4.35	29.31	35.61	64.26	62.31	74.00	-11.69	Peak



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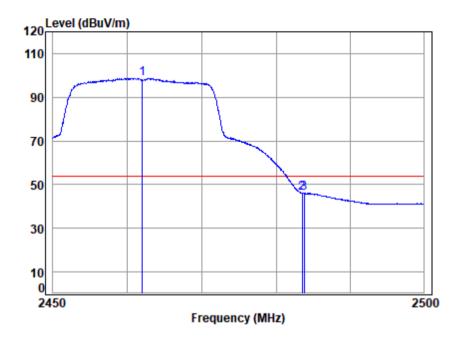


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT 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	4.32	29.17	35.62	100.91	98.78	54.00	44.78	Average
2		2483.500	4.34	29.30	35.61	47.85	45.88	54.00	-8.12	Average
3		2483.790	4.34	29.30	35.61	47.98	46.01	54.00	-7.99	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: 22.1 °C Humidity: 41.2 % RH Atmospheric Pressure: 1005 mbar

7.8.2 Test Mode Description

7.0.2 Test mode Description										
Pre-scan / Final test	Mode Code	Description								
Pre-scan	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report								
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report								



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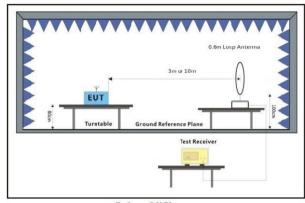


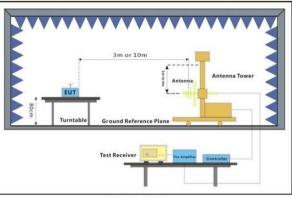
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7.8.3 Test Setup Diagram





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



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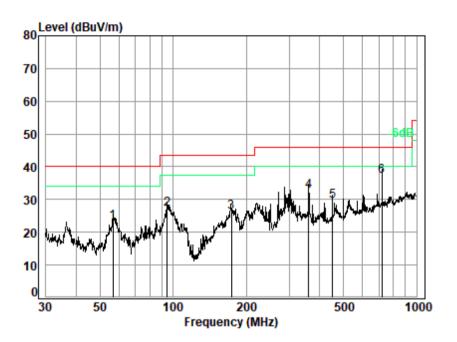


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Test Mode: 01; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 01206AT

Test Mode: 01

		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	56.59	11.69	0.83	27.14	37.83	23.21	40.00	-16.79	QP
2	94.76	12.70	1.11	27.02	40.39	27.18	43.50	-16.32	QP
3	173.21	14.42	1.54	26.71	36.97	26.22	43.50	-17.28	QP
4	360.45	20.79	2.34	26.38	35.81	32.56	46.00	-13.44	QP
5	451.14	21.78	2.65	26.65	31.61	29.39	46.00	-16.61	QP
6 q	721.73	26.82	3.48	26.61	33.50	37.19	46.00	-8.81	OP



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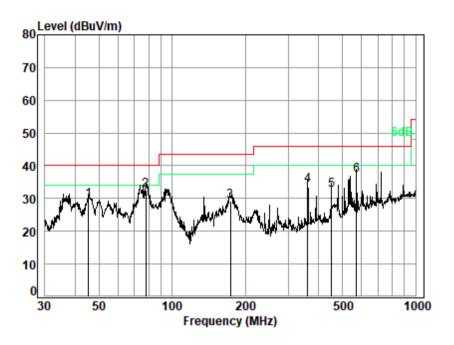


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Test Mode: 01; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 01206AT

Test Mode: 01

		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	45.38	13.50	0.73	27.18	42.37	29.42	40.00	-10.58	QP
2 q	77.87	10.50	1.00	27.07	48.20	32.63	40.00	-7.37	QP
3	173.21	14.42	1.54	26.71	39.96	29.21	43.50	-14.29	QP
4	360.45	20.79	2.34	26.38	37.20	33.95	46.00	-12.05	QP
5	451.14	21.78	2.65	26.65	34.85	32.63	46.00	-13.37	QP
6	570.61	23.86	3.03	27.01	37.20	37.08	46.00	-8.92	OP



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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:

Atmospheric Pressure: 1000 mbar Temperature: 25.2 °C Humidity: 52.6 % RH

7.9.2 Test Mode Description

7.0.2 100111	7.3.2 Test Mode Description										
Pre-scan / Final test	Mode Code	Description									
Pre-scan	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report									
Final test	01	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6.5Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40); data rate @ 8Mbps is the worst case of IEEE 802.11ax(HE20); data rate@16Mbps is the worst case of IEEE 802.11ax(HE40). Only the data of worst case is recorded in the report									



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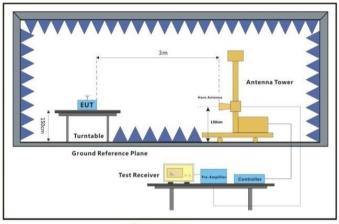


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7.9.3 Test Setup Diagram



Above 1GHz

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
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

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



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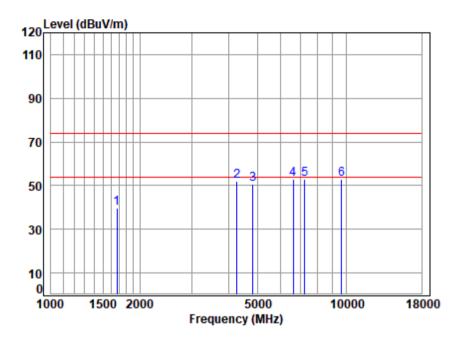


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT

Mode : 2412 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1672.779	3.46	26.75	36.46	46.03	39.78	74.00	-34.22	peak
2		4267.237	6.55	33.60	34.52	46.39	52.02	74.00	-21.98	peak
3		4824.000	7.06	33.90	34.88	44.76	50.84	74.00	-23.16	peak
4		6621.375	8.26	35.60	35.60	44.62	52.88	74.00	-21.12	peak
5		7236.000	8.54	35.80	35.95	44.51	52.90	74.00	-21.10	peak
6	q	9648.000	10.41	37.10	35.55	41.17	53.13	74.00	-20.87	peak



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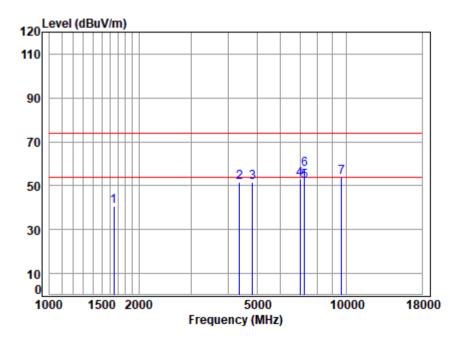


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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 01206AT/01207AT

: 2412 TX RSE Mode

: 2.4G WIFI 11B

		Cable		Preamp			Limit		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	3.43	26.70	36.52	46.88	40.49	74.00	-33.51	peak
2	4367.058	6.65	33.57	34.59	45.91	51.54	74.00	-22.46	peak
3	4824.000	7.06	33.90	34.88	45.29	51.37	74.00	-22.63	peak
4	6974.982	8.32	35.75	35.89	44.72	52.90	74.00	-21.10	peak
5 q	7236.000	8.54	35.80	35.95	43.62	52.01	54.00	-1.99	Average
6 q	7236.000	8.54	35.80	35.95	48.99	57.38	74.00	-16.62	peak
7	9648.000	10.41	37.10	35.55	41.98	53.94	74.00	-20.06	peak



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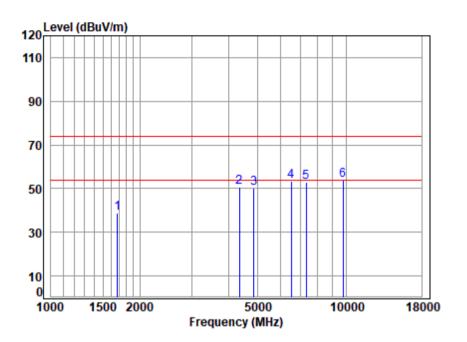


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230400120602

Page: 60 of 184

Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
	Fre	рe	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MH	lz .	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.47	77	3.47	26.77	36.44	44.93	38.73	74.00	-35.27	peak
2	4354.45	54	6.63	33.59	34.58	44.80	50.44	74.00	-23.56	peak
3	4874.00	90	7.10	34.05	34.91	43.85	50.09	74.00	-23.91	peak
4	6526.37	73	8.25	35.55	35.51	44.93	53.22	74.00	-20.78	peak
5	7311.00	90	8.61	35.90	35.97	44.21	52.75	74.00	-21.25	peak
6	q 9748.00									•



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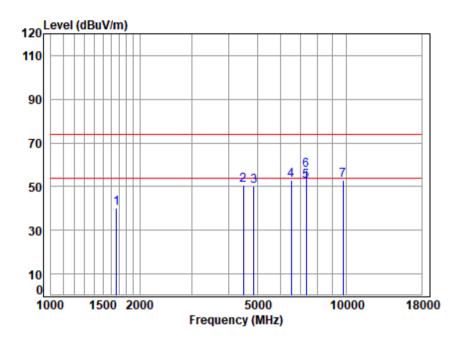


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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

			TO WILL	1 110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
				•			•	•		
1		1667.951	3.45	26.74	36.47	46.47	40.19	74.00	-33.81	peak
2		4495.125	6.77	33.50	34.67	44.97	50.57	74.00	-23.43	peak
3		4874.000	7.10	34.05	34.91	44.15	50.39	74.00	-23.61	peak
4		6507.536	8.24	35.52	35.50	44.57	52.83	74.00	-21.17	peak
5	q	7311.000	8.61	35.90	35.97	43.72	52.26	54.00	-1.74	Average
6	q	7311.000								_
7		9748.000			35.56					•



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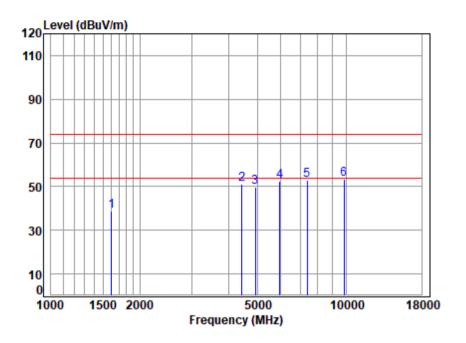


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT

Mode : 2462 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1601.804	3.37	26.51	36.63	45.52	38.77	74.00	-35.23	peak
2		4430.628	6.71	33.50	34.63	45.68	51.26	74.00	-22.74	peak
3		4924.000	7.15	34.15	34.94	43.20	49.56	74.00	-24.44	peak
4		5949.811	8.12	34.90	35.04	44.66	52.64	74.00	-21.36	peak
5		7386.000	8.68	35.90	35.98	44.33	52.93	74.00	-21.07	peak
6	q	9848.000	10.49	37.30	35.57	41.38	53.60	74.00	-20.40	peak



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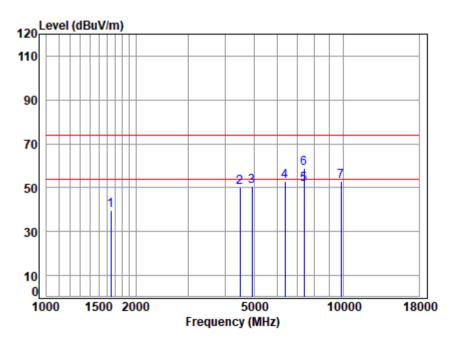


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 01206AT/01207AT

: 2462 TX RSE Mode

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1648.778	3.43	26.70	36.52	45.99	39.60	74.00	-34.40	peak
2		4482.150	6.75	33.50	34.66	44.56	50.15	74.00	-23.85	peak
3		4924.000	7.15	34.15	34.94	44.33	50.69	74.00	-23.31	peak
4		6358.789	8.22	35.22	35.37	45.02	53.09	74.00	-20.91	peak
5	q	7386.000	8.68	35.90	35.98	43.05	51.65	54.00	-2.35	Average
6	q	7386.000	8.68	35.90	35.98	50.25	58.85	74.00	-15.15	peak
7		9848.000	10.49	37.30	35.57	40.86	53.08	74.00	-20.92	peak



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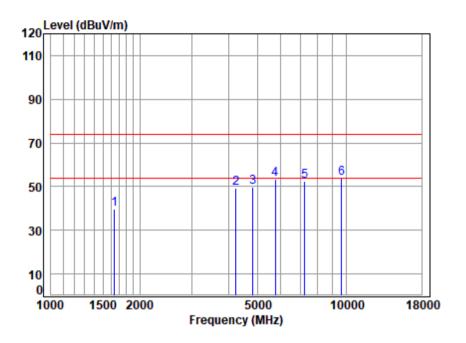


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	3.42	26.66	36.54	46.01	39.55	74.00	-34.45	peak
2	4230.396	6.51	33.52	34.49	43.79	49.33	74.00	-24.67	peak
3	4824.000	7.06	33.90	34.88	43.45	49.53	74.00	-24.47	peak
4	5746.982	7.94	34.50	35.03	45.79	53.20	74.00	-20.80	peak
5									•
6	9648.000								•



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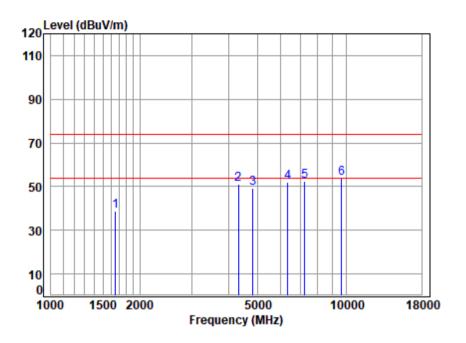


SZEMC-TRF-01 Rev. A/0 Aug01,2022

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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT

Mode : 2412 TX RSE

: 2.4G WIFI 11N20

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1653.550	3.43	26.71	36.51	45.26	38.89	74.00	-35.11	peak
2		4316.859	6.60	33.60	34.55	45.31	50.96	74.00	-23.04	peak
3		4824.000	7.06	33.90	34.88	43.14	49.22	74.00	-24.78	peak
4		6340.436	8.22	35.20	35.35	43.88	51.95	74.00	-22.05	peak
5		7236.000	8.54	35.80	35.95	43.86	52.25	74.00	-21.75	peak
6	q	9648.000	10.41	37.10	35.55	41.80	53.76	74.00	-20.24	peak



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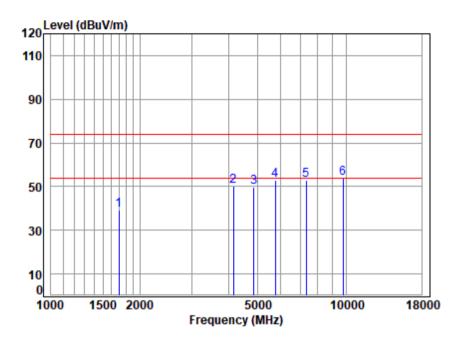


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT : 2437 TX RSE Mode

: 2.4G WIFI 11N20

		Freq			Preamp Factor		Level			Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1697.129	3.49	26.79	36.41	45.30	39.17	74.00	-34.83	peak
2		4145.664	6.43	33.09	34.43	45.32	50.41	74.00	-23.59	peak
3		4874.000	7.10	34.05	34.91	43.58	49.82	74.00	-24.18	peak
4		5746.982	7.94	34.50	35.03	45.53	52.94	74.00	-21.06	peak
5		7311.000	8.61	35.90	35.97	44.31	52.85	74.00	-21.15	peak
6	q	9748.000	10.45	37.20	35.56	41.84	53.93	74.00	-20.07	peak



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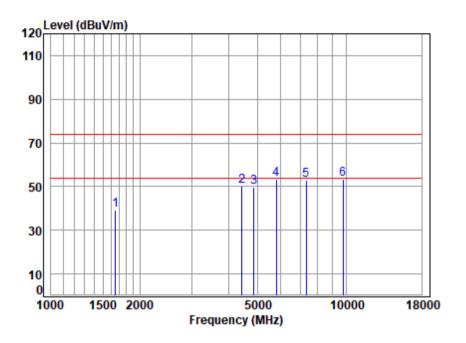


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT

Mode : 2437 TX RSE

: 2.4G WIFI 11N20

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1653.550	3.43	26.71	36.51	45.69	39.32	74.00	-34.68	peak
2		4443.453	6.72	33.50	34.64	44.67	50.25	74.00	-23.75	peak
3		4874.000	7.10	34.05	34.91	43.66	49.90	74.00	-24.10	peak
4	q	5797.032	7.98	34.59	35.03	45.81	53.35	74.00	-20.65	peak
5		7311.000	8.61	35.90	35.97	44.32	52.86	74.00	-21.14	peak
6		9748.000	10.45	37.20	35.56	41.25	53.34	74.00	-20.66	peak



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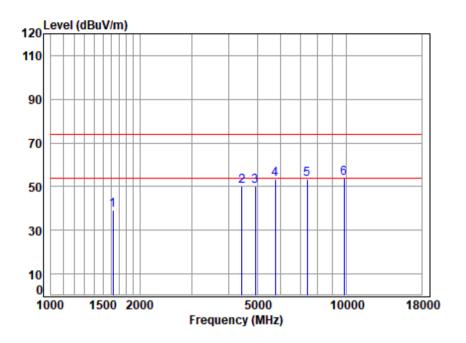


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT : 2462 TX RSE Mode

: 2.4G WIFI 11N20

Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Limit Remark Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1620.431 3.39 26.58 36.58 45.70 39.09 74.00 -34.91 peak 1 4430.628 6.71 33.50 34.63 44.51 50.09 74.00 -23.91 peak 2 34.15 34.94 43.98 50.34 74.00 -23.66 peak 3 4924.000 7.15 5746.982 7.94 34.50 35.03 45.88 53.29 74.00 -20.71 peak 8.68 35.90 44.86 53.46 74.00 -20.54 peak 7386.000 35.98 41.55 53.77 74.00 -20.23 peak 6 q 9848.000 10.49 37.30 35.57



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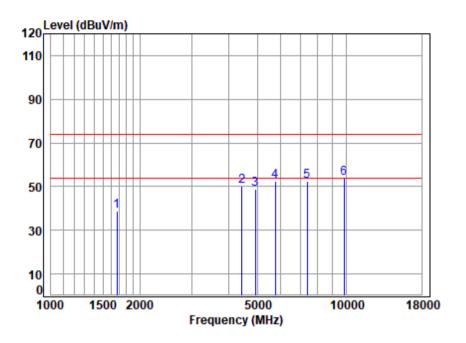


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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

					_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1672.779	3.46	26.75	36.46	45.20	38.95	74.00	-35.05	peak
2		4430.628	6.71	33.50	34.63	44.43	50.01	74.00	-23.99	peak
3		4924.000	7.15	34.15	34.94	42.53	48.89	74.00	-25.11	peak
4		5746.982	7.94	34.50	35.03	45.17	52.58	74.00	-21.42	peak
5		7386.000	8.68	35.90	35.98	44.08	52.68	74.00	-21.32	peak
6	q	9848.000	10.49	37.30	35.57	41.43	53.65	74.00	-20.35	peak



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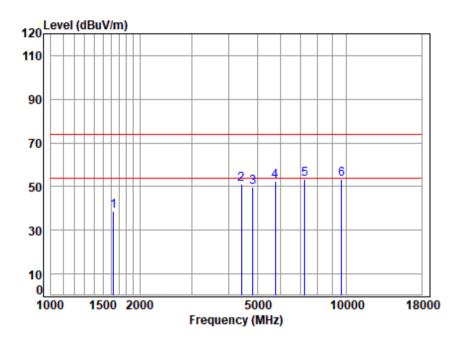


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT

Mode : 2412 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1629.825	3.41	26.62	36.56	45.32	38.79	74.00	-35.21	peak
2		4417.841	6.69	33.50	34.62	45.62	51.19	74.00	-22.81	peak
3		4824.000	7.06	33.90	34.88	43.55	49.63	74.00	-24.37	peak
4		5746.982	7.94	34.50	35.03	45.05	52.46	74.00	-21.54	peak
5		7236.000	8.54	35.80	35.95	44.83	53.22	74.00	-20.78	peak
6	q	9648.000	10.41	37.10	35.55	41.51	53.47	74.00	-20.53	peak



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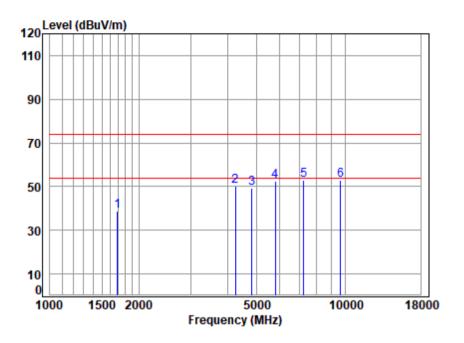


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Report No.: SZCR230400120602

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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT

Mode : 2412 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1692.231	3.48	26.78	36.42	44.95	38.79	74.00	-35.21	peak
2		4254.921	6.54	33.60	34.51	44.48	50.11	74.00	-23.89	peak
3		4824.000	7.06	33.90	34.88	43.33	49.41	74.00	-24.59	peak
4		5797.032	7.98	34.59	35.03	44.97	52.51	74.00	-21.49	peak
5		7236.000	8.54	35.80	35.95	44.36	52.75	74.00	-21.25	peak
6	q	9648.000	10.41	37.10	35.55	41.06	53.02	74.00	-20.98	peak



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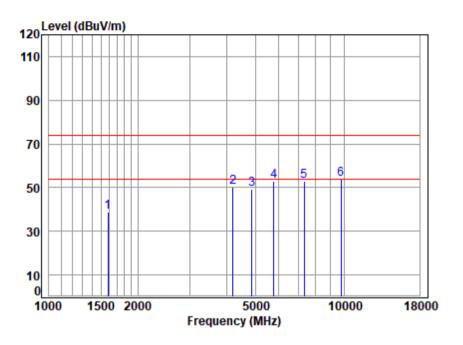


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1583.392	3.35	26.30	36.67	45.98	38.96	74.00	-35.04	peak
2		4193.872								•
3		4874.000								•
4		5780.300								•
5										•
6	q	9748.000								•



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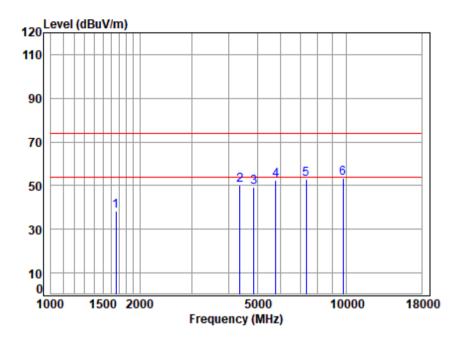


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT

Mode : 2437 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver				
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark			
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB				
1		1663.137	3.45	26.73	36.48	44.71	38.41	74.00	-35.59	peak			
2		4367.058	6.65	33.57	34.59	44.64	50.27	74.00	-23.73	peak			
3		4874.000	7.10	34.05	34.91	42.84	49.08	74.00	-24.92	peak			
4		5780.300	7.97	34.56	35.03	44.78	52.28	74.00	-21.72	peak			
5		7311.000								•			
6	q	9748.000								•			



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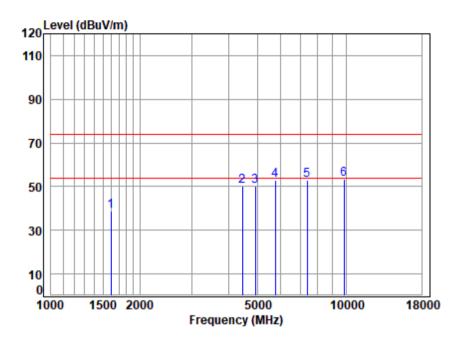


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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 01206AT/01207AT

Mode : 2462 TX RSE

: 2.4G WIFI 11AX20

		Cable		Preamp	Read		Limit	0ver	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1597.181	3.37	26.47	36.64	45.73	38.93	74.00	-35.07	peak	
2	4456.315	6.73	33.50	34.64	44.63	50.22	74.00	-23.78	peak	
3	4924.000	7.15	34.15	34.94	43.75	50.11	74.00	-23.89	peak	
4	5746.982	7.94	34.50	35.03	45.36	52.77	74.00	-21.23	peak	
5	7386.000	8.68	35.90	35.98	44.33	52.93	74.00	-21.07	peak	
6	q 9848.000	10.49	37.30	35.57	41.21	53.43	74.00	-20.57	peak	



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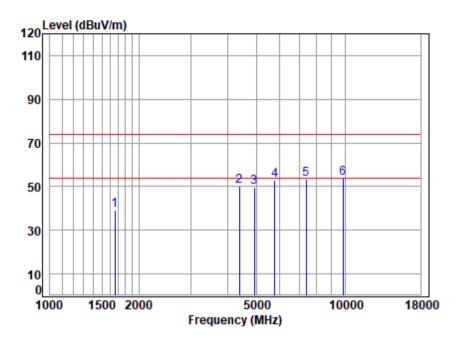


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Test Mode: 01; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 01206AT/01207AT

Mode : 2462 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver			
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark		
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1		1663.137	3.45	26.73	36.48	45.60	39.30	74.00	-34.70	peak		
2		4392.376	6.67	33.52	34.60	44.67	50.26	74.00	-23.74	peak		
3					34.94					•		
4		5780.300	7.97	34.56	35.03	45.25	52.75	74.00	-21.25	peak		
5		7386.000								•		
6	q	9848.000								•		



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Test Setup Photo 8

Refer to Appendix - Test Setup Photo for SZCR2304001206AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2304001206AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

						Ant1			
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		2412	/	/	8.416	8.473	99.33	0.03	0.04
802.11b	SISO	2437	/	/	8.417	8.473	99.34	0.03	0.04
		2462	/	/	8.416	8.473	99.33	0.03	0.04
	SISO	2412	/	/	1.398	1.454	96.15	0.17	0.03
802.11g		2437	/	/	1.399	1.452	96.35	0.16	0.03
		2462	/	/	1.397	1.453	96.15	0.17	0.07
000.44	МІМО	2412	/	/	1.309	1.366	95.83	0.19	0.03
802.11n (HT20)		2437	/	/	1.309	1.365	95.90	0.18	0.03
(11120)		2462	/	/	1.308	1.365	95.82	0.19	0.07
000.44	МІМО	2422	/	/	0.648	0.705	91.91	0.37	0.09
802.11n (HT40)		2437	/	/	0.649	0.706	91.93	0.37	0.09
(11140)		2452	/	/	0.649	0.705	92.06	0.36	0.07
000 11		2412	RU242	Left	0.207	0.264	78.41	1.06	0.11
802.11ax (HEW20)	MIMO	2437	RU242	Left	0.210	0.264	79.55	0.99	0.08
(1124420)		2462	RU242	Left	0.209	0.264	79.17	1.01	0.08
000.44		2422	RU484	Left	0.204	0.260	78.46	1.05	0.09
802.11ax (HEW40)	MIMO	2437	RU484	Left	0.205	0.261	78.54	1.05	0.12
(1127740)		2452	RU484	Left	0.205	0.260	78.85	1.03	0.04



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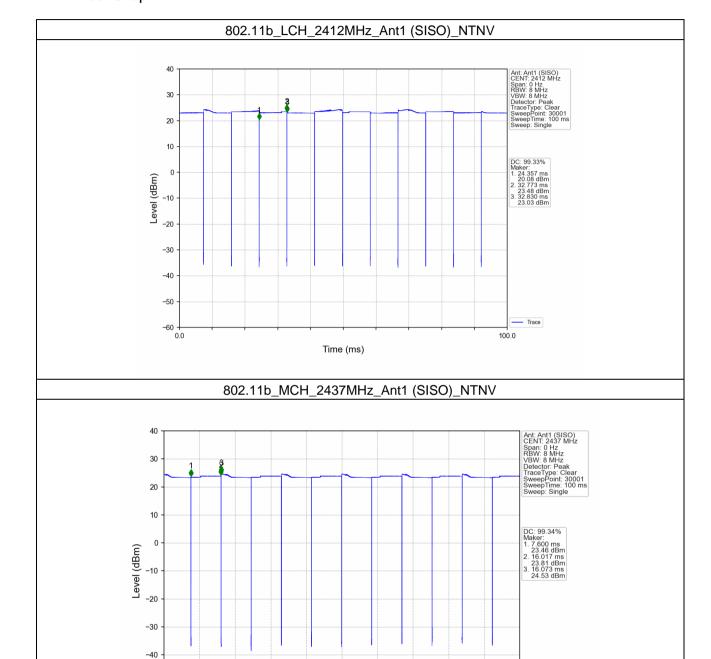


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1.1.2 Test Graph





-50

-60 0.0

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Time (ms)

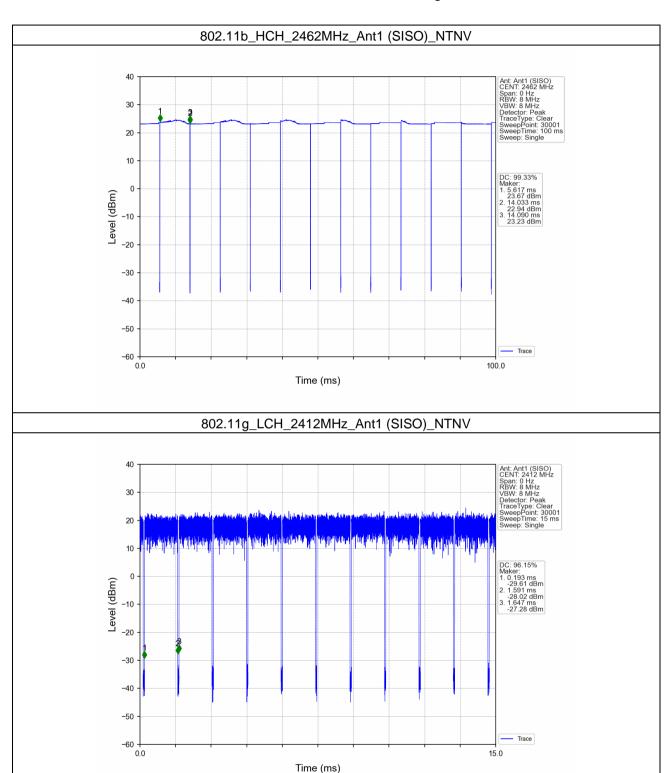
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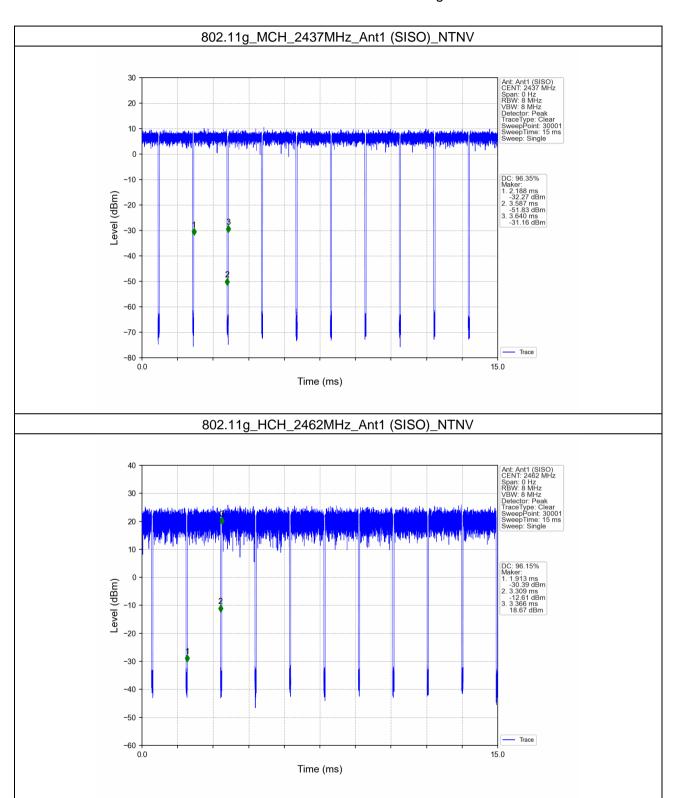
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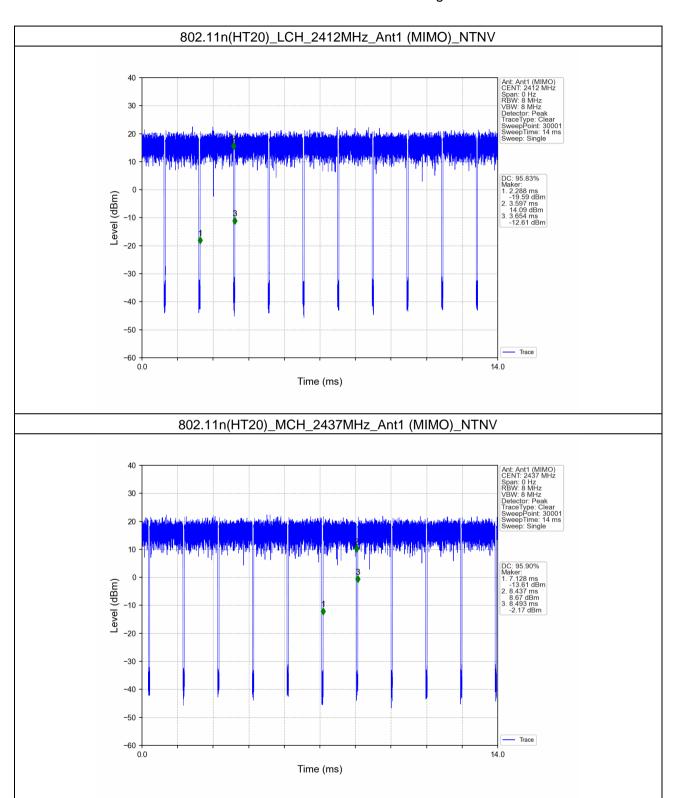
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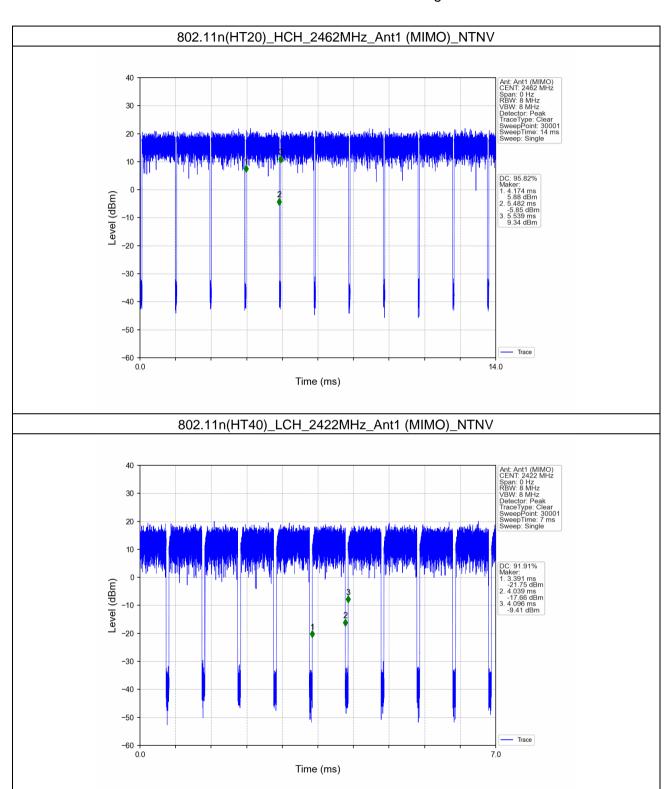
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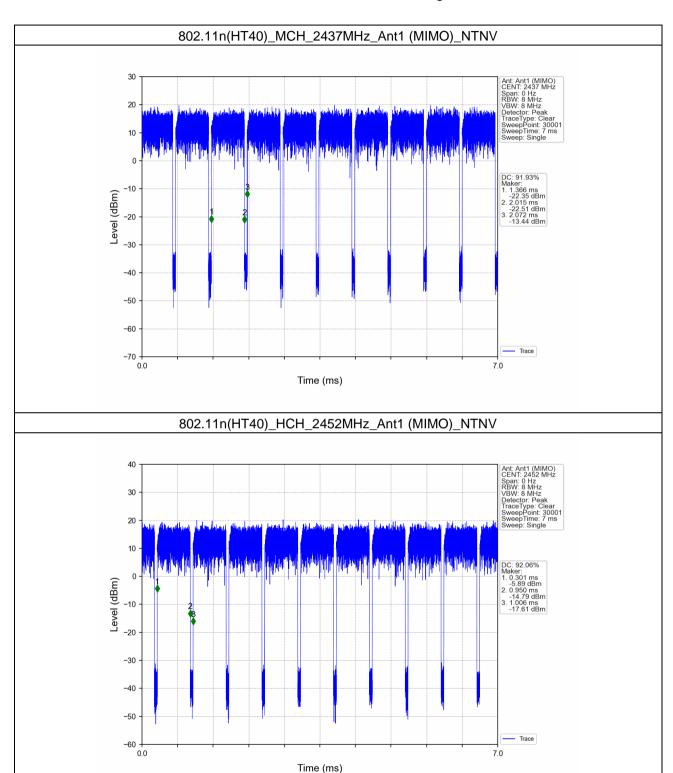
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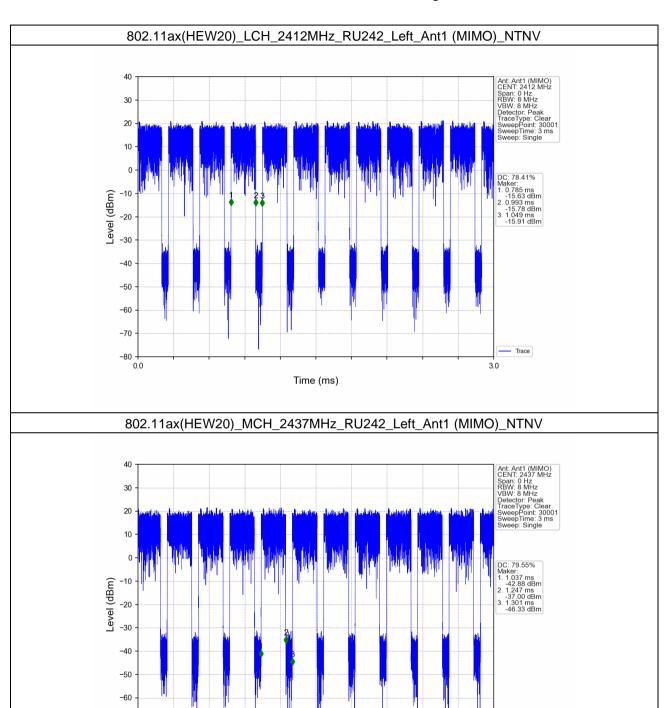
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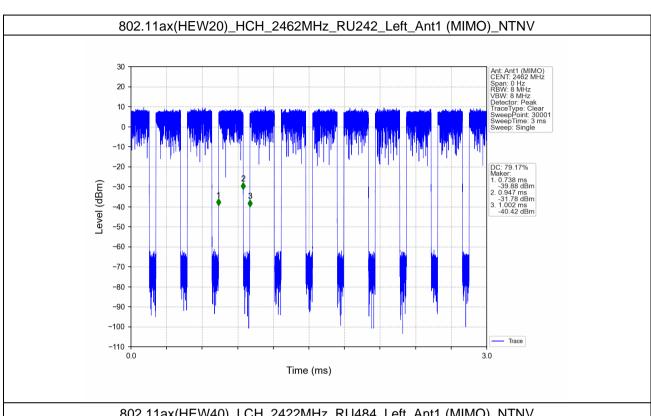
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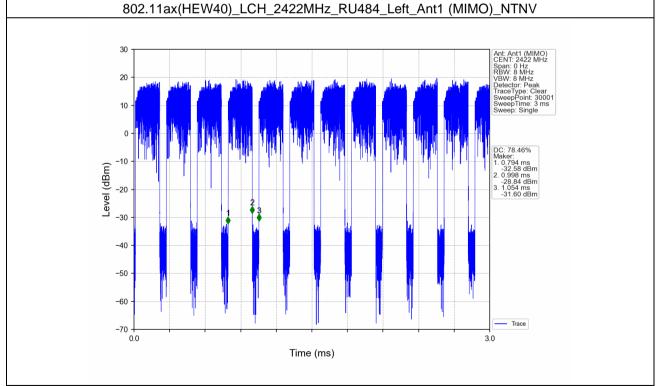


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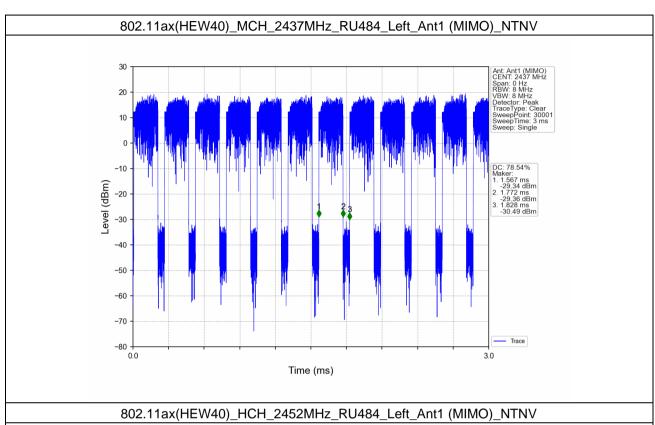
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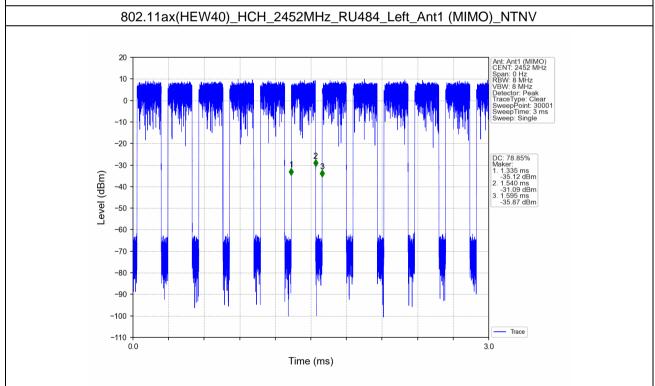


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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
		2412	/	/	1	12.705	Pass
802.11b	SISO	2437	/	/	1	12.616	Pass
		2462	/	/	1	12.576	Pass
		2412	/	/	1	18.375	Pass
802.11g	SISO	2437	/	/	1	19.433	Pass
		2462	/	/	1	19.289	Pass
	MIMO	2412 MIMO 2437		/	1	18.817	Pass
802.11n (HT20)				/	1	19.458	Pass
(11120)		2462	/	/	1	19.261	Pass
000 44	MIMO	2422	/	/	1	37.132	Pass
802.11n (HT40)		2437	/	/	1	37.312	Pass
(11140)		2452	/	/	1	37.241	Pass
000.44		2412	RU242	Left	1	19.110	Pass
802.11ax (HEW20)	MIMO	2437	RU242	Left	1	19.567	Pass
(1124420)		2462	RU242	Left	1	19.492	Pass
000.44		2422	RU484	Left	1	38.066	Pass
802.11ax (HEW40)	MIMO	2437	RU484	Left	1	38.136	Pass
(1127770)		2452	RU484	Left	1	38.145	Pass



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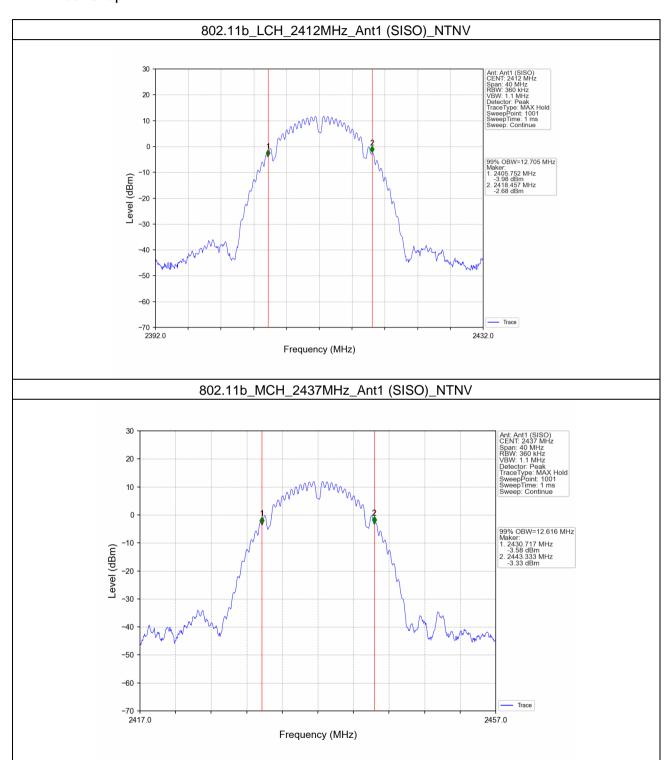


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2.1.2 Test Graph





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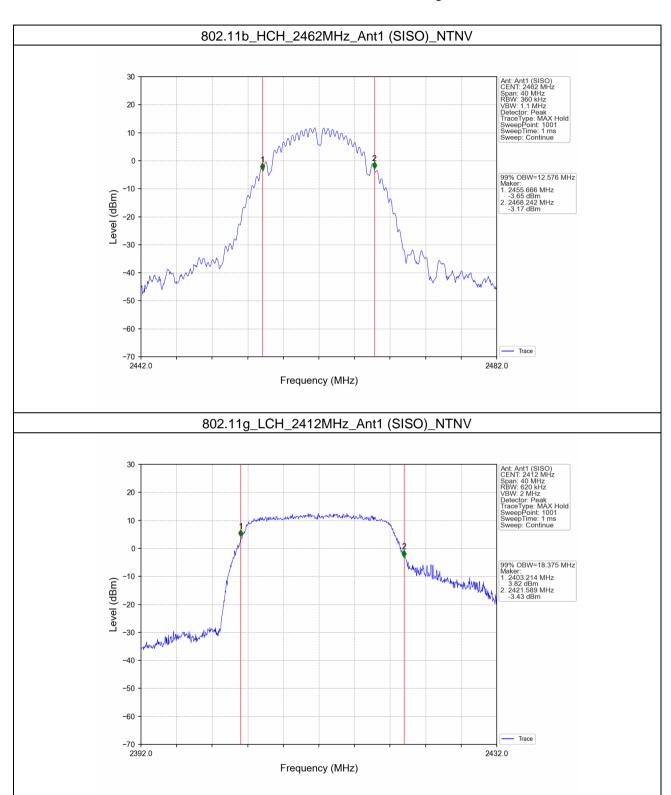
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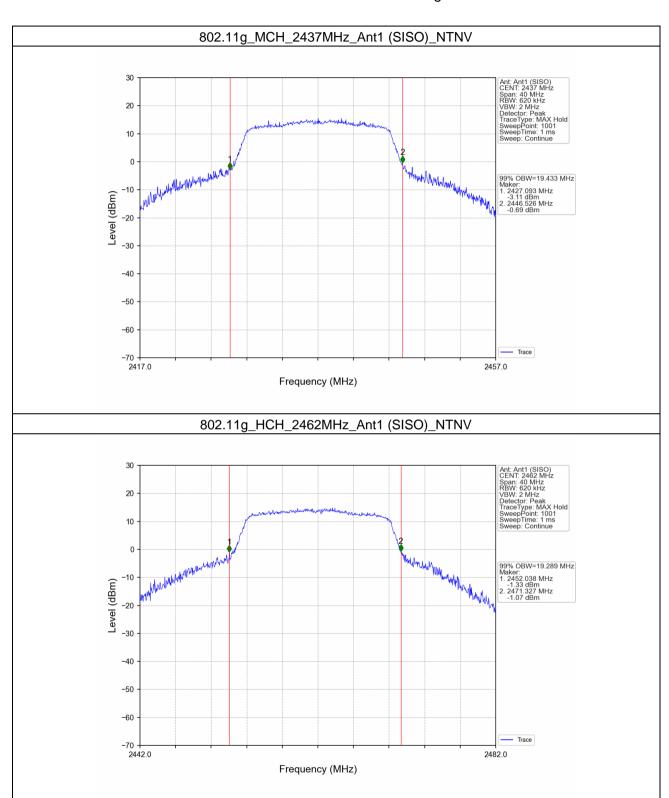
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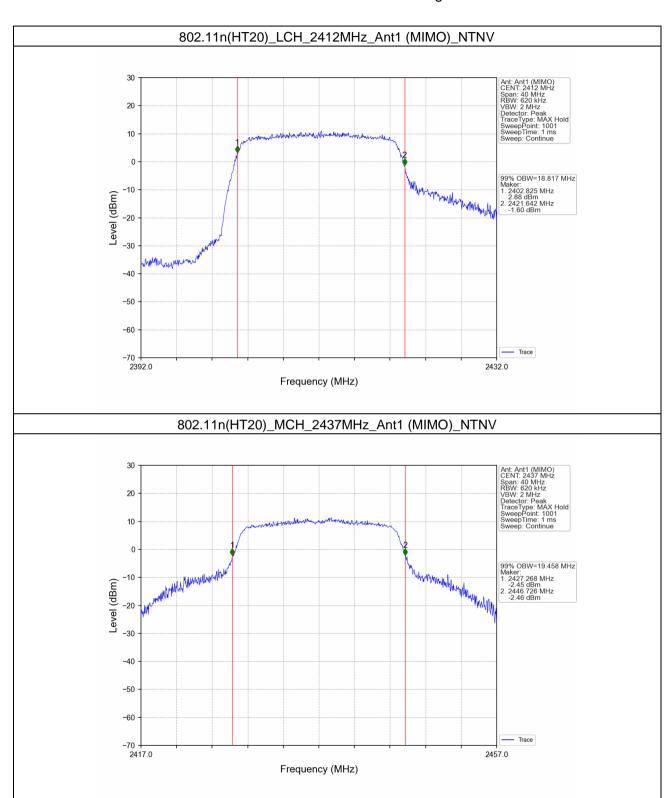
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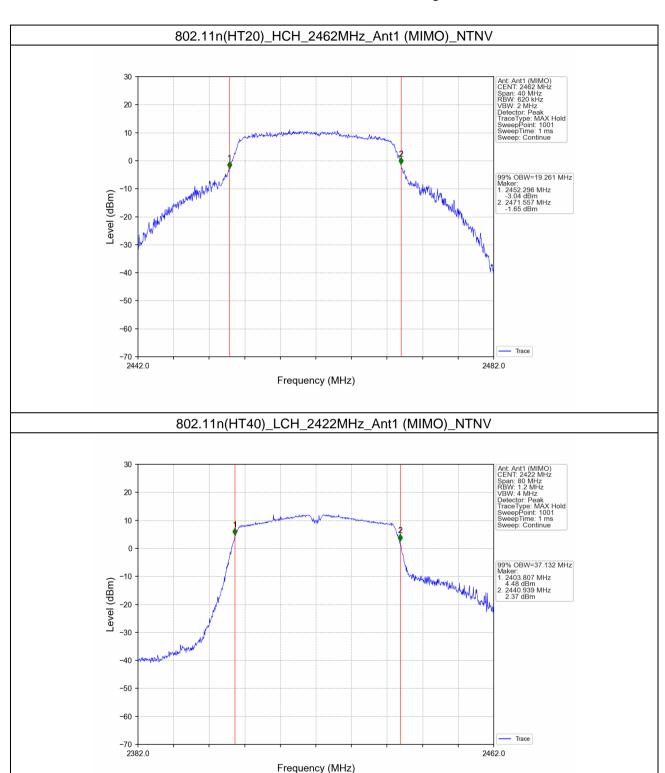
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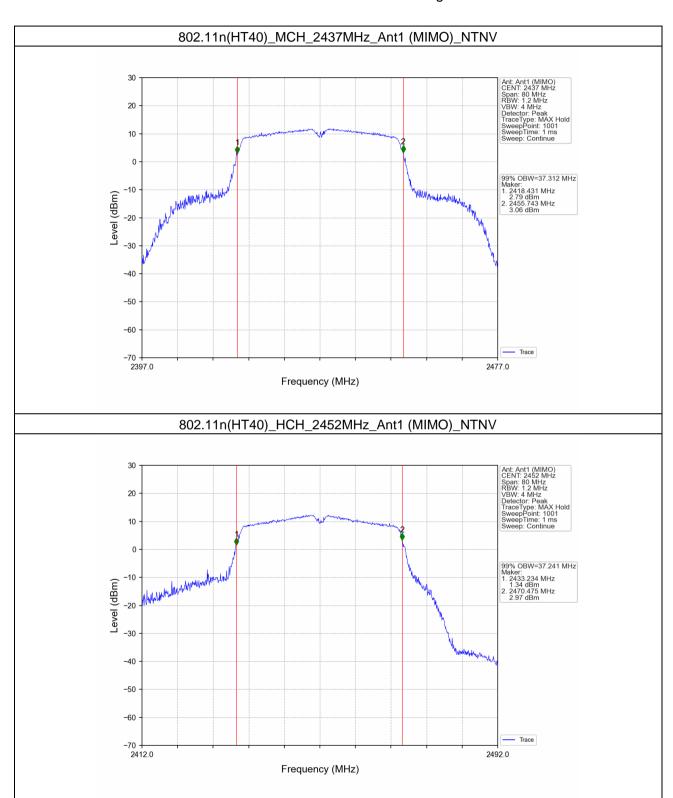
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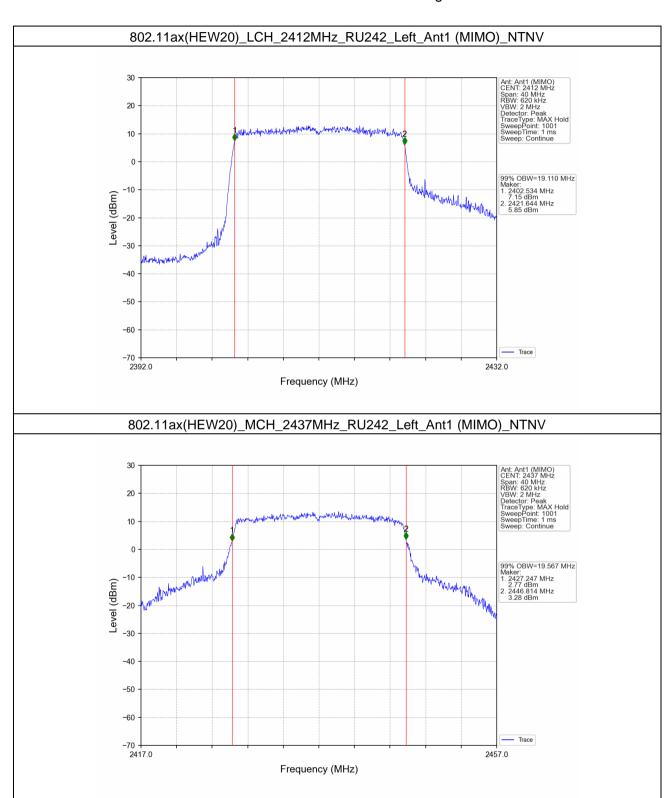
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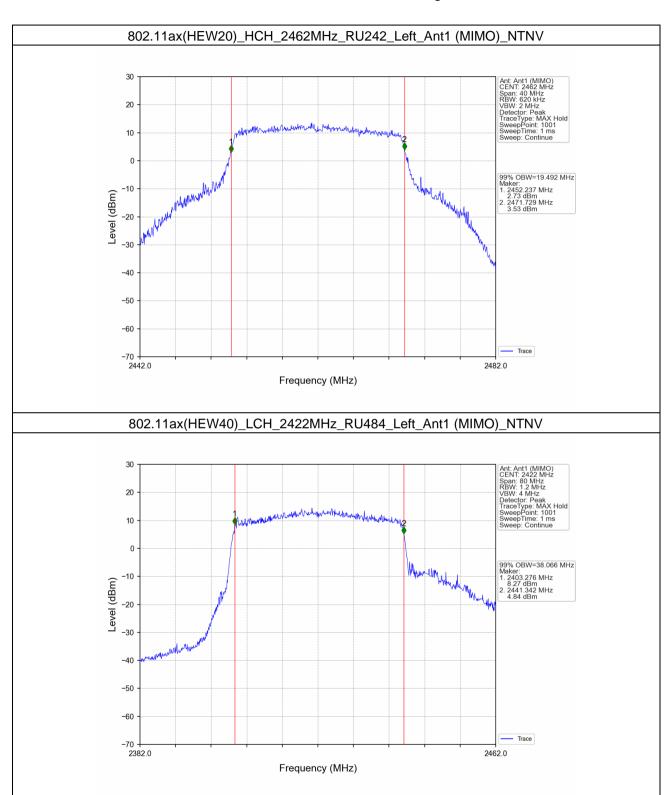
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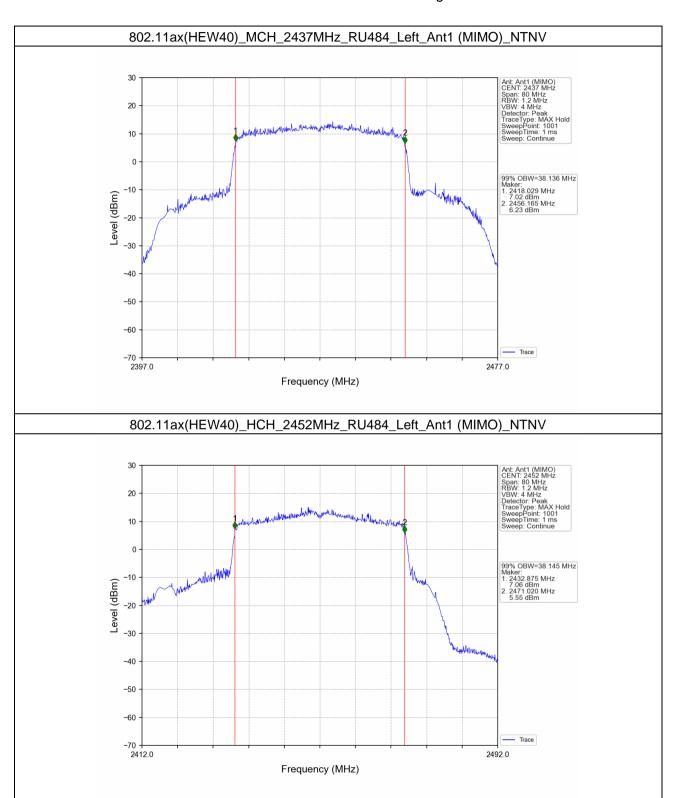
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2.2 6dB BW

2.2.1 Test Result

Mada	TX	Frequency	DII	RU	ANIT	6dB Bandv	vidth (MHz)	Mandiat	
Mode	Type	(MHz)	RU	Pos	ANT	Result	Limit	Verdict	
		2412	/	/	1	8.108	>=0.5	Pass	
802.11b	SISO	2437	/	/	1	8.088	>=0.5	Pass	
		2462	/	/	1	8.088	>=0.5	Pass	
		2412	/	/	1	15.853	>=0.5	Pass	
802.11g	SISO	2437	/	/	1	16.065	>=0.5	Pass	
		2462	/	/	1	15.922	>=0.5	Pass	
000.44	MIMO	2412	/	/	1	17.139	>=0.5	Pass	
802.11n (HT20)		2437	/	/	1	16.555	>=0.5	Pass	
(11120)		2462	/	/	1	17.152	>=0.5	Pass	
000 44	МІМО	2422	/	/	1	35.154	>=0.5	Pass	
802.11n (HT40)		2437	/	/	1	35.170	>=0.5	Pass	
(11140)		2452	/	/	1	35.144	>=0.5	Pass	
000 44 5		2412	RU242	Left	1	18.607	>=0.5	Pass	
802.11ax (HEW20)	MIMO	2437	RU242	Left	1	18.316	>=0.5	Pass	
(1127720)		2462	RU242	Left	1	18.386	>=0.5	Pass	
000.44		2422	RU484	Left	1	36.123	>=0.5	Pass	
802.11ax (HEW40)	MIMO	2437	RU484	Left	1	35.986	>=0.5	Pass	
(112 77-0)		2452	RU484	Left	1	35.151	>=0.5	Pass	



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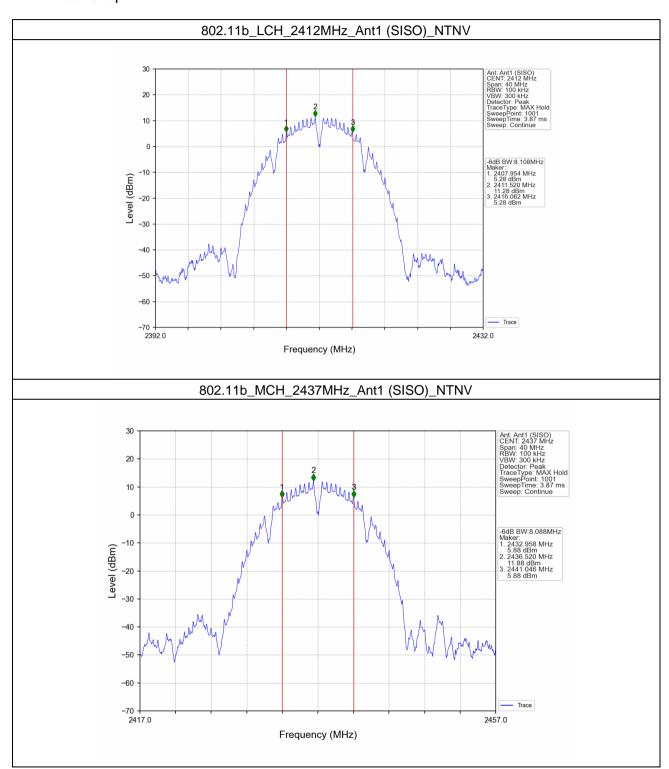


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2.2.2 Test Graph





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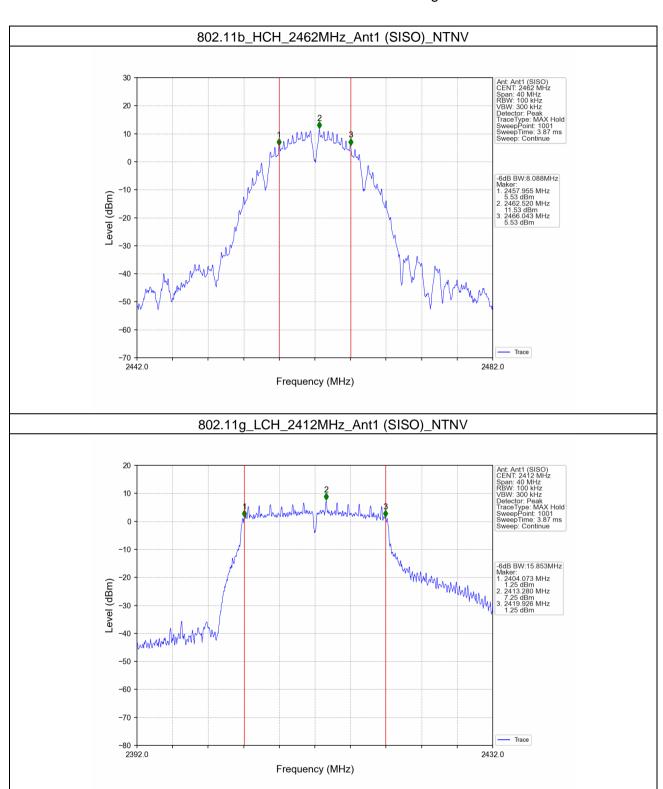
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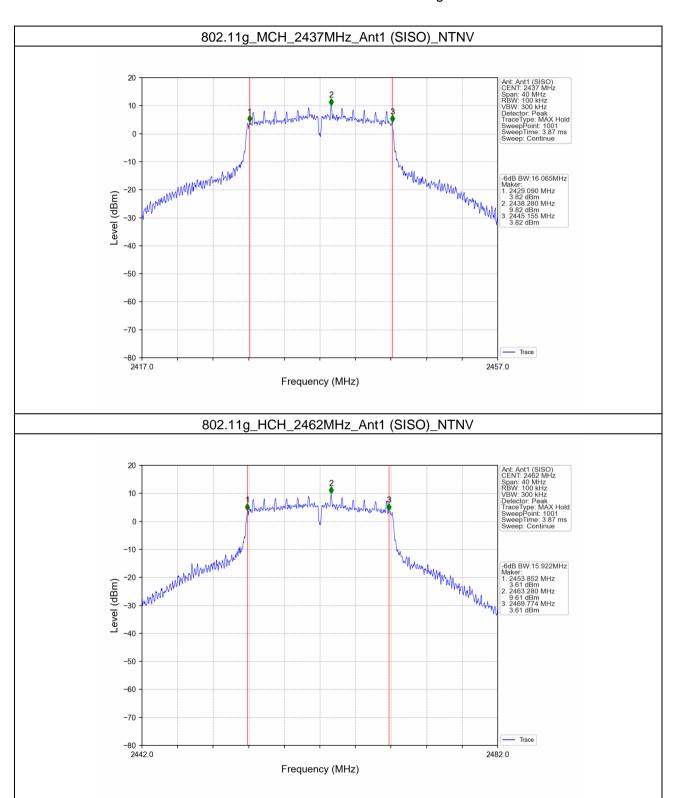
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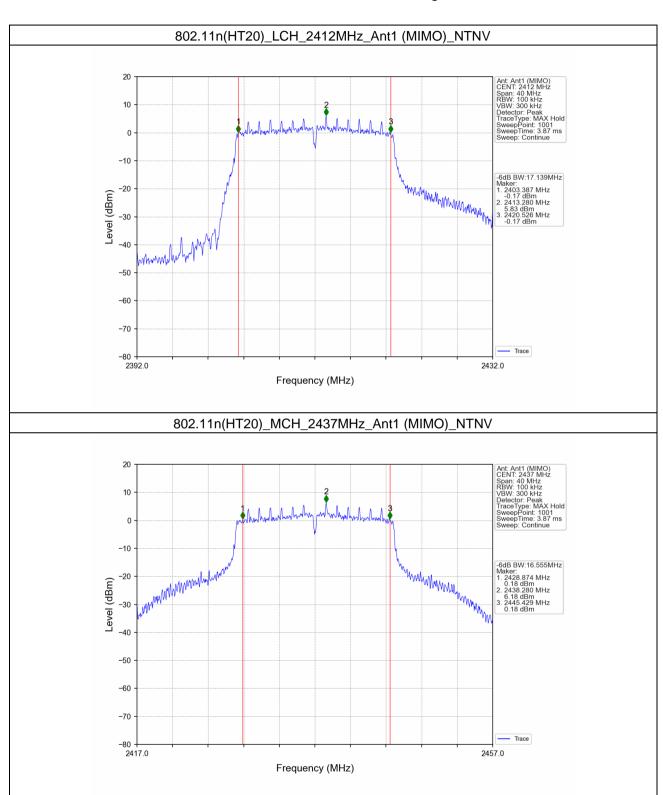
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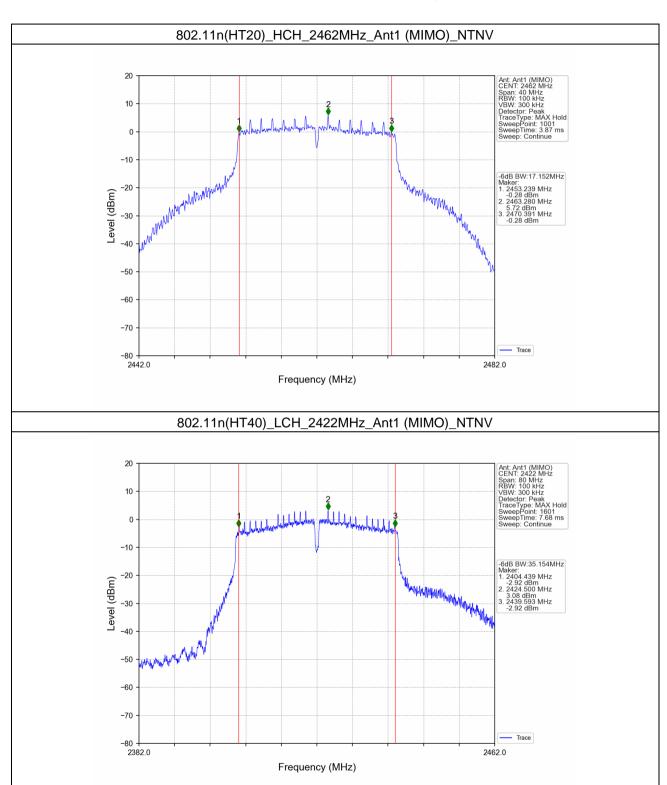
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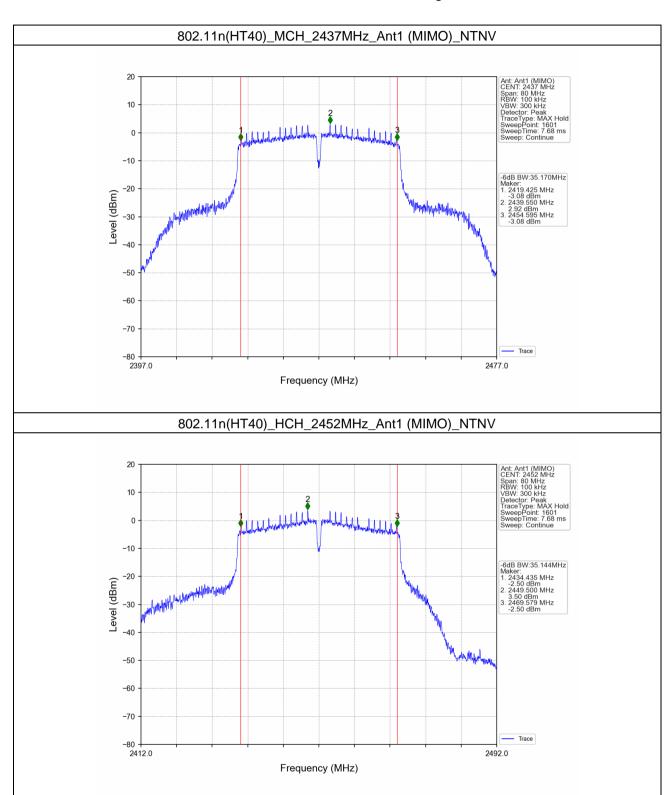
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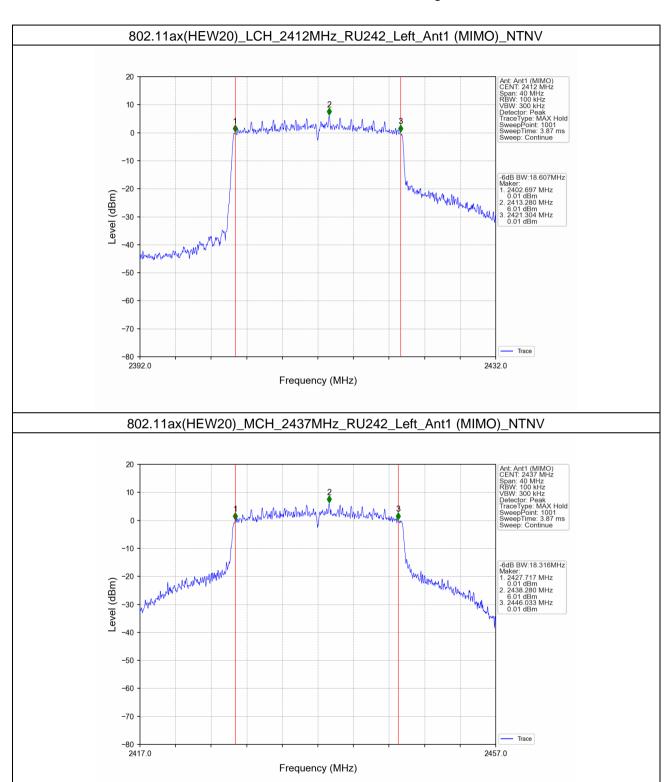
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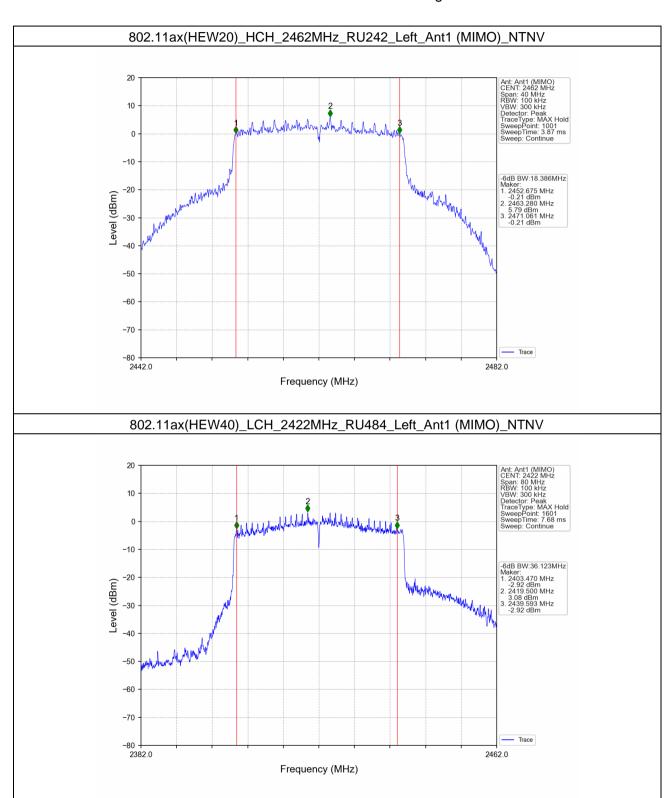
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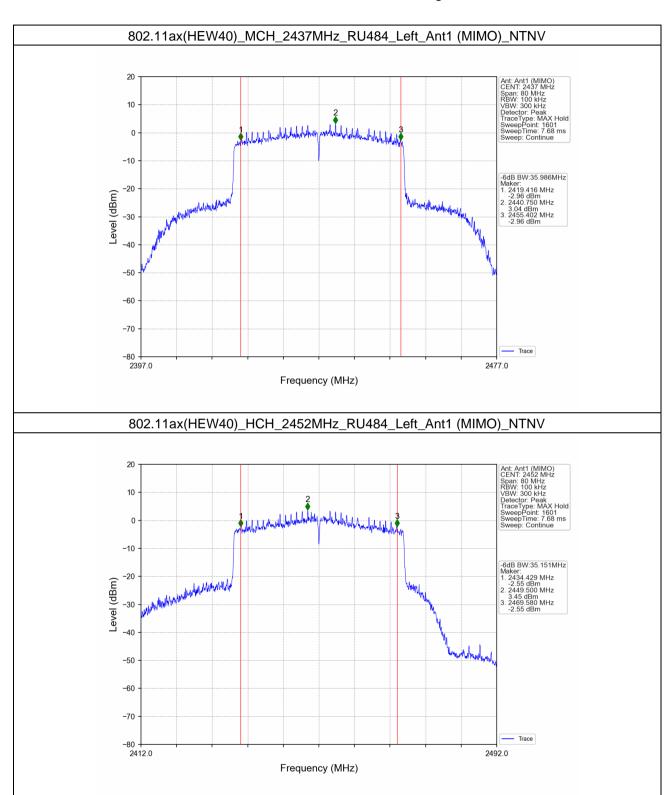
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX	Frequency	RU	RU Pos	Maximum	Average Co (dE	nducted Out Bm)	put Power	Verdict
	Туре	(MHz)		P05	ANT1	ANT2	MIMO	Limit	
		2412	/	/	21.04	20.74	/	<=30	Pass
802.11b	SISO	2437	/	/	21.43	21.11	/	<=30	Pass
		2462	/	/	21.15	20.86	/	<=30	Pass
		2412	/	/	19.40	18.72	/	<=30	Pass
802.11g	SISO	2437	/	/	19.77	19.27	/	<=30	Pass
		2462	/	/	19.51	19.07	/	<=30	Pass
000.44	MIMO	2412	/	/	15.81	15.23	18.54	<=30	Pass
802.11n (HT20)		2437	/	/	16.05	15.57	18.83	<=30	Pass
(11120)		2462	/	/	15.81	15.52	18.68	<=30	Pass
000.44	MIMO	2422	/	/	15.84	15.37	18.62	<=30	Pass
802.11n (HT40)		2437	/	/	15.98	15.32	18.67	<=30	Pass
(11140)		2452	/	/	15.97	15.47	18.74	<=30	Pass
		2412	RU242	Left	16.00	15.40	18.72	<=30	Pass
802.11ax (HEW20)	MIMO	2437	RU242	Left	16.19	15.60	18.92	<=30	Pass
(1127720)		2462	RU242	Left	15.93	15.60	18.78	<=30	Pass
200 44		2422	RU484	Left	15.98	15.50	18.76	<=30	Pass
(HEW40)	MIMO	2437	RU484	Left	16.12	15.43	18.80	<=30	Pass
(1127740)		2452	RU484	Left	16.09	15.59	18.86	<=30	Pass



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mada	TX	Frequency	DII	RU	Ма	ximum PSI	D (dBm/3kl	Hz)	Verdict
Mode	Туре	(MHz)	RU	Pos	ANT1	ANT2	MIMO	Limit	
		2412	/	/	-1.51	-1.33	/	<=8	Pass
802.11b	SISO	2437	/	/	-1.26	-1.73	/	<=8	Pass
		2462	/	/	-1.66	-2.06	/	<=8	Pass
		2412	/	/	-6.00	-6.40	/	<=8	Pass
802.11g	SISO	2437	/	/	-5.14	-5.67	/	<=8	Pass
		2462	/	/	-3.28	-5.55	/	<=8	Pass
000.44	MIMO	2412	/	/	-7.97	-10.09	-7.02	<=8	Pass
802.11n (HT20)		2437	/	/	-9.37	-9.23	-6.68	<=8	Pass
(11120)		2462	/	/	-8.89	-8.85	-7.38	<=8	Pass
000 44	MIMO	2422	/	/	-12.30	-12.14	-9.72	<=8	Pass
802.11n (HT40)		2437	/	/	-11.23	-12.41	-9.90	<=8	Pass
(11140)		2452	/	/	-12.09	-12.29	-10.10	<=8	Pass
000 44 -		2412	RU242	Left	-10.92	-11.67	-8.62	<=8	Pass
802.11ax (HEW20)	MIMO	2437	RU242	Left	-9.89	-10.49	-8.27	<=8	Pass
(1127720)		2462	RU242	Left	-10.54	-10.34	-8.20	<=8	Pass
000 44		2422	RU484	Left	-12.83	-13.56	-10.82	<=8	Pass
802.11ax (HEW40)	MIMO	2437	RU484	Left	-12.56	-11.88	-10.37	<=8	Pass
(11277-0)		2452	RU484	Left	-12.13	-13.46	-10.37	<=8	Pass



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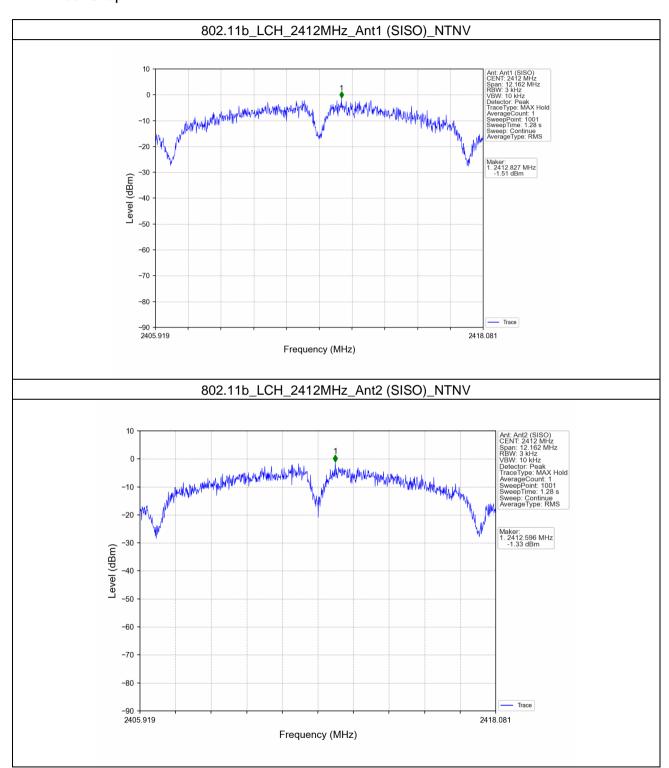


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4.1.2 Test Graph





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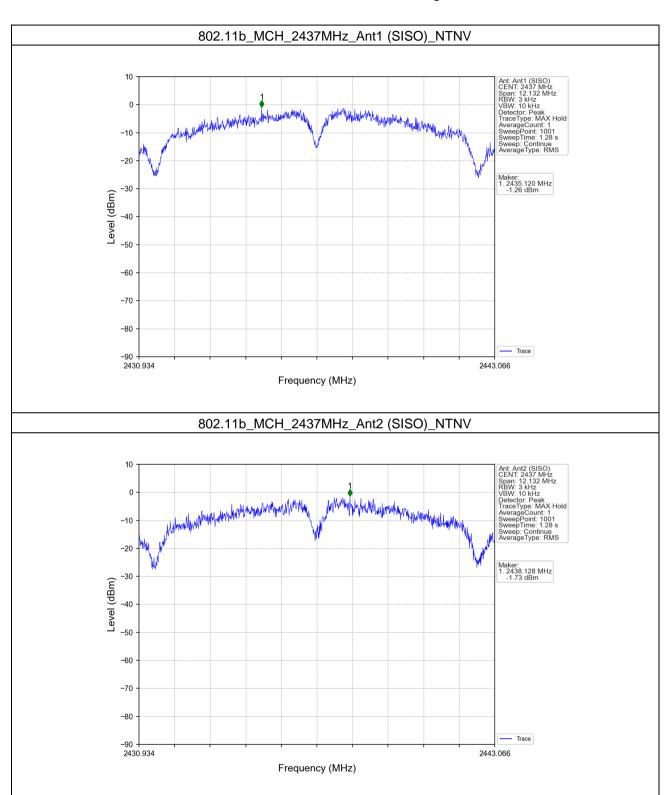
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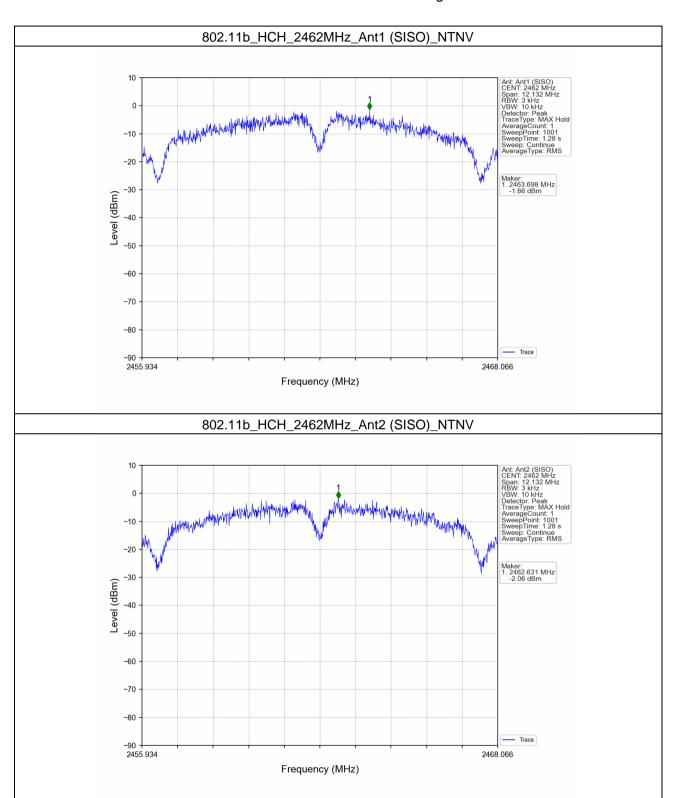
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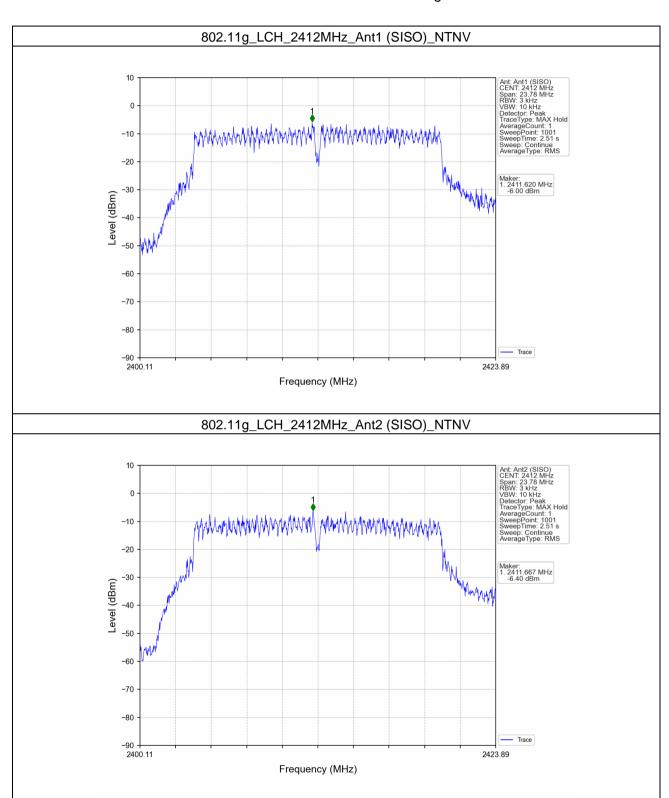
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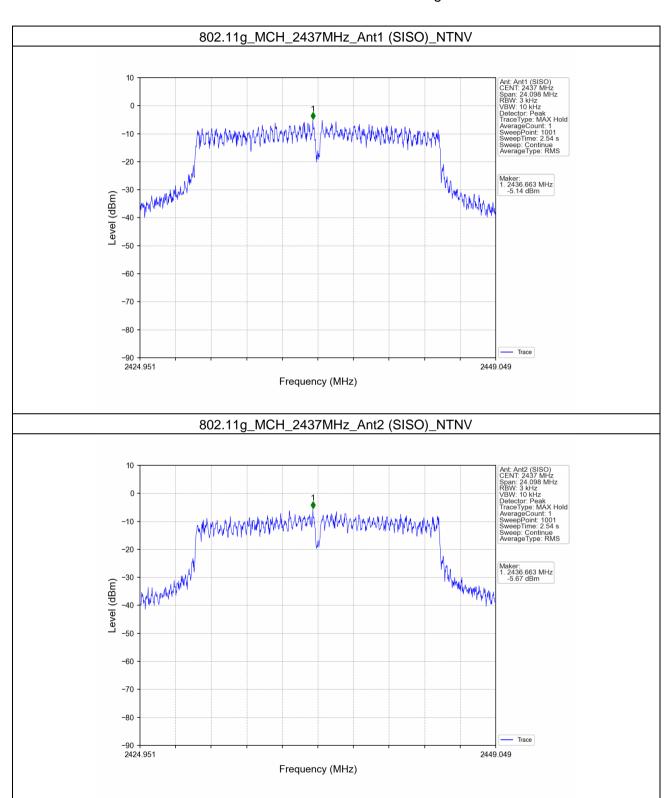
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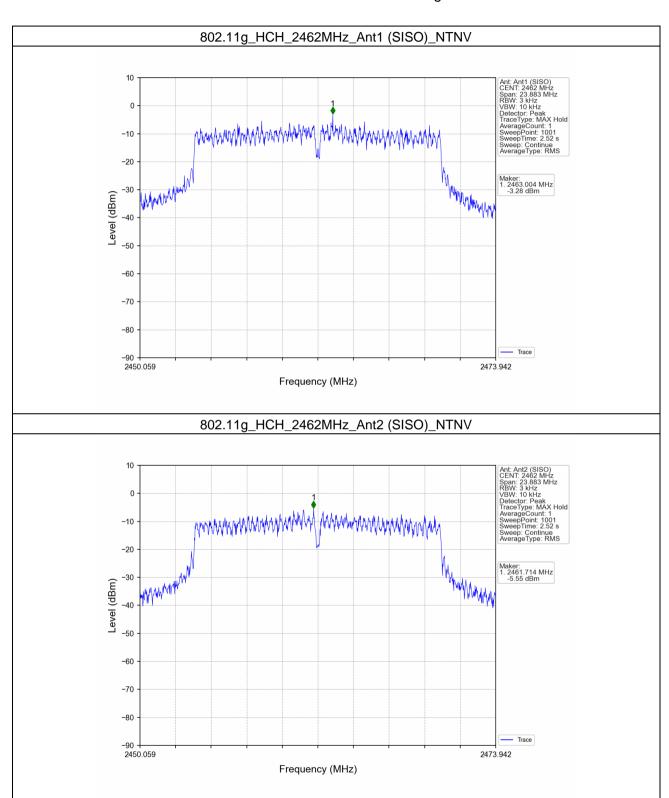
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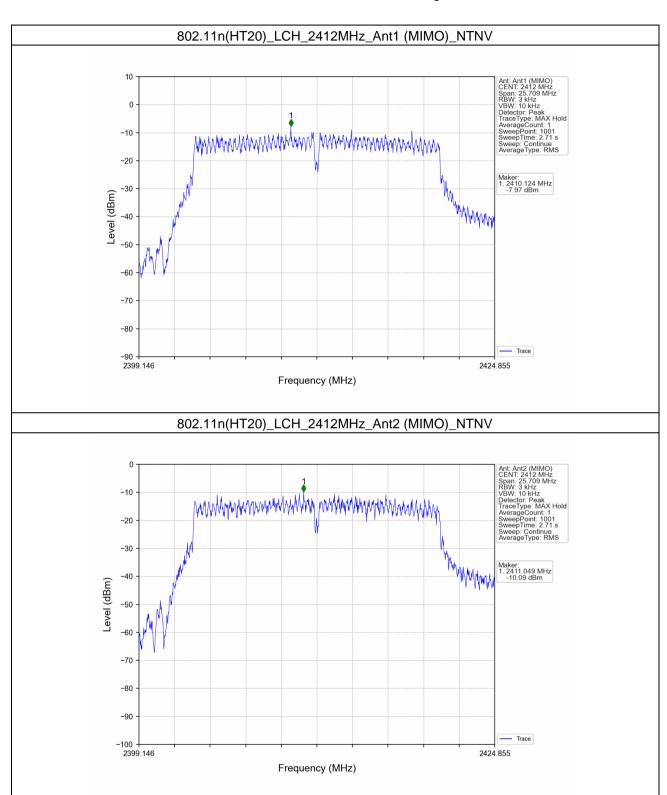
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