

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240300078304

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TEST REPORT

Application No.: SZCR2403000783AT

Applicant: Solaborate Inc.

Address of Applicant: 2605 Enterprise RD E Suite 150, Clearwater, Florida 33759 United States

Manufacturer: Solaborate Inc.

Address of Manufacturer: 2605 Enterprise RD E Suite 150, Clearwater, Florida 33759 United States

Equipment Under Test (EUT):

EUT Name: Hello 3
Model No.: Hello 3

FCC ID: 2AW3M-HELLO3

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

Date of Receipt: 2024-03-08

Date of Test: 2024-03-21 to 2024-04-09

Date of Issue: 2024-04-17

Test Result: Pass*

Keny. Ku

Keny Xu



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-04-17		Original			

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



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General Information

Details of E.U.T. 4.1

Power supply:	Powered by DC 12V, 3.0A,
	From Adapter model: 152-00018
	Input AC 100-240V, 1.0A, 50/60Hz
	Output: DC 12V, 3.0A, 36W
Cable(s):	DC cable from adapter 1.5m unshielded with 2 cores
	HDMI Cable 1.8m shielded
Cable Loss (for RF conducted test):	0.5dB
Operation Frequency:	802.11b/g/n/ax(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n/ax: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n/ax(HT20): 11
Antenna Type:	FPC Antenna
Antenna Gain:	Ant0: 2.91dBi; Ant1: 2.91dBi

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
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Conducted Spurious Emissions	± 0.75dB
Conducted Band Edges Measurement	± 0.75dB
Power Spectrum Density	± 2.84dB
Minimum 6dB Bandwidth	± 3%



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Remark:

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

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



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4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

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

• FCC -Designation Number: CN1336

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 **Equipment List**

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

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
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	2024-03-15	2025-03-14

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06



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Radiated Emissions wh	ich fall in the restrict	ed bands			
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Horn Antenna Rohde&Schwarz		SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
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	2024-03-15	2025-03-14

Conducted Spurious Emissions							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06		
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26		

Conducted Band Edges Measurement							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13		
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06		
Attenuator	Huber+Suhner	6620_SMA-50-	6620_SMA-50- 1 SEM021-09	2023-03-28	2024-03-27		
		1		2024-03-27	2025-03-26		



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Power Spectrum Density	y				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-28 2024-03-27	2024-03-27 2025-03-26

Minimum 6dB Bandwidt	:h				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- SEM021-09	2023-03-28	2024-03-27	
Allendator	Huber+Suriner	1	3EIVIU21-09	2024-03-27	2025-03-26

General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Ant0: 2.91dBi; Ant1: 2.91dBi.

Antenna location: Refer to internal photos



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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/MU-)	Conducted limit(dBµV)				
Frequency of emission(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency.					
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz					

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

71112 10011		· · · · · · · · · · · · · · · · · ·
Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), data rate @ MCS0 is the worst case of IEEE 802.11ax20, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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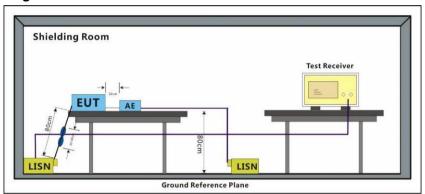
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7.1.3 Test Setup Diagram



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

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



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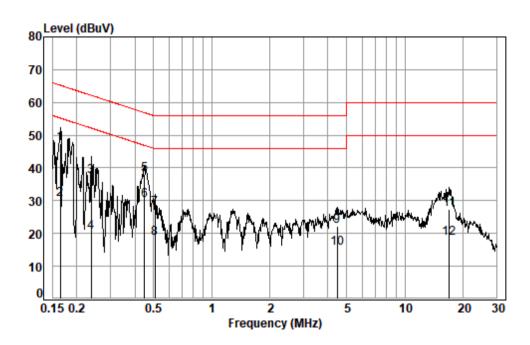


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Test Mode: 04; Line: Live line



: Shielding Room

Condition: Line

: 00783AT/00784AT Job No.

Test mode: 04

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1650	0.02	9.90	37.66	47.58	65.21	-17.63	QP
2	0.1650	0.02	9.90	20.46	30.38	55.21	-24.83	Average
3	0.2378	0.03	9.96	27.41	37.40	62.17	-24.77	QP
4	0.2378	0.03	9.96	10.44	20.43	52.17	-31.74	Average
5	0.4492	0.04	10.00	27.96	38.00	56.89	-18.89	QP
6 *	0.4492	0.04	10.00	20.04	30.08	46.89	-16.81	Average
7	0.5101	0.04	9.99	17.68	27.71	56.00	-28.29	QP
8	0.5101	0.04	9.99	8.59	18.62	46.00	-27.38	Average
9	4.4777	0.09	10.03	12.19	22.31	56.00	-33.69	QP
10	4.4777	0.09	10.03	5.50	15.62	46.00	-30.38	Average
11	17.0181	0.25	10.22	16.78	27.25	60.00	-32.75	QP
12	17.0181	0.25	10.22	8.05	18.52	50.00	-31.48	Average

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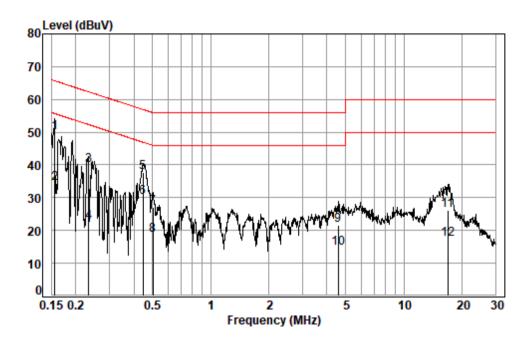


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Test Mode: 04; Line: Neutral Line



: Shielding Room

Condition: Neutral

Job No. : 00783AT/00784AT

Test mode: 04

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1557	0.02	9.89	39.97	49.88	65.69	-15.81	QP
2	0.1557	0.02	9.89	24.50	34.41	55.69	-21.28	Average
3	0.2341	0.03	9.91	29.91	39.85	62.30	-22.45	QP
4	0.2341	0.03	9.91	12.63	22.57	52.30	-29.73	Average
5	0.4468	0.04	9.92	27.81	37.77	56.93	-19.16	QP
6 *	0.4468	0.04	9.92	20.12	30.08	46.93	-16.85	Average
7	0.5020	0.04	9.92	17.24	27.20	56.00	-28.80	QP
8	0.5020	0.04	9.92	8.73	18.69	46.00	-27.31	Average
9	4.5736	0.09	10.00	11.51	21.60	56.00	-34.40	QP
10	4.5736	0.09	10.00	4.38	14.47	46.00	-31.53	Average
11	16.9282	0.25	10.26	15.54	26.05	60.00	-33.95	QP
12	16.9282	0.25	10.26	6.83	17.34	50.00	-32.66	Average

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7.2 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

7.2.1 E.U.T. Operation

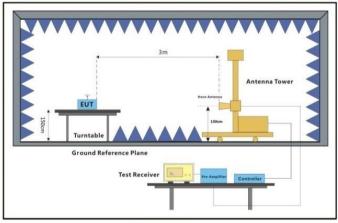
Operating Environment:

Temperature: 21.4 °C Humidity: 48.9 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), data rate @ MCS0 is the worst case of IEEE 802.11ax20, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



Above 1GHz



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7.2.4 Measurement Procedure and Data

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

Remark:

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



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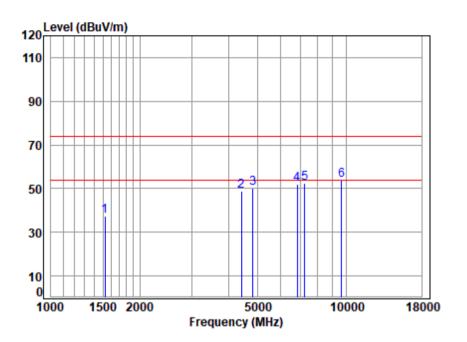


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT

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	152	25.000	4.10	26.90	38.39	44.99	37.60	74.00	-36.40	peak
2	441	17.841	7.07	34.59	35.78	43.06	48.94	74.00	-25.06	peak
3	482	24.000	7.33	34.40	35.50	44.11	50.34	74.00	-23.66	peak
4	681	15.551	8.79	35.36	35.45	43.14	51.84	74.00	-22.16	peak
5	72	36.000	9.21	35.70	35.82	43.41	52.50	74.00	-21.50	peak
6	p 964	18.000	12.39	37.50	37.45	41.18	53.62	74.00	-20.38	peak



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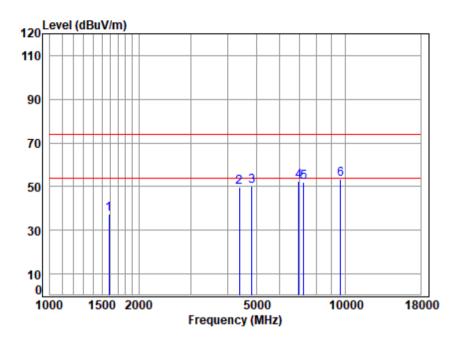


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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT

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		1587.975	4.18	26.85	38.40	44.77	37.40	74.00	-36.60	peak
2		4379.699	7.04	34.64	35.81	43.67	49.54	74.00	-24.46	peak
3		4824.000	7.33	34.40	35.50	43.80	50.03	74.00	-23.97	peak
4		6954.852	8.89	35.79	35.54	43.30	52.44	74.00	-21.56	peak
5		7236.000	9.21	35.70	35.82	43.15	52.24	74.00	-21.76	peak
6	р	9648.000	12.39	37.50	37.45	40.75	53.19	74.00	-20.81	peak



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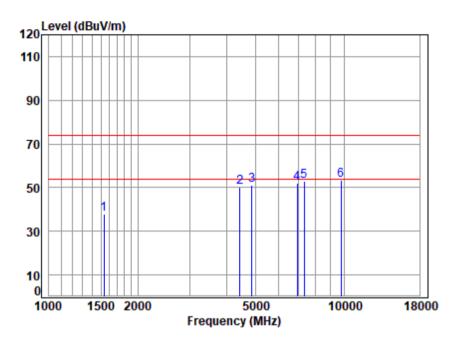


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078304

Page: 21 of 153

Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT

Mode : 2437 TX RSE

: 2.4G WIFI 11B

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1538.281	4.12	26.95	38.39	45.20	37.88	74.00	-36.12	peak
2		4430.628	7.08	34.43	35.77	44.59	50.33	74.00	-23.67	peak
3		4874.000	7.36	34.60	35.47	44.41	50.90	74.00	-23.10	peak
4		6934.778	8.87	35.74	35.53	43.02	52.10	74.00	-21.90	peak
5		7311.000	9.30	35.70	35.89	43.91	53.02	74.00	-20.98	peak
6	р	9748.000	12.46	37.40	37.43	40.83	53.26	74.00	-20.74	peak



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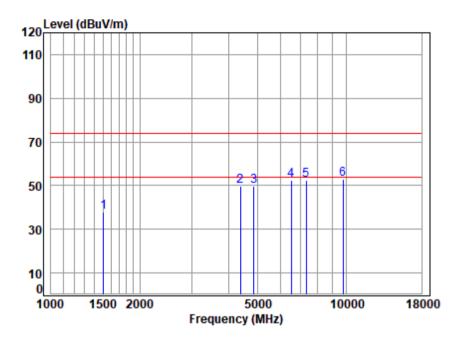


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT

: 2437 TX RSE Mode

: 2.4G WIFI 11B

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1507.470	4.07	26.83	38.39	45.36	37.87	74.00	-36.13	peak
2	4392.376	7.05	34.74	35.80	43.54	49.53	74.00	-24.47	peak
3	4874.000	7.36	34.60	35.47	43.31	49.80	74.00	-24.20	peak
4	6507.536	8.57	35.58	35.25	43.46	52.36	74.00	-21.64	peak
5	7311.000	9.30	35.70	35.89	43.21	52.32	74.00	-21.68	peak
6 p	9748.000	12.46	37.40	37.43	40.46	52.89	74.00	-21.11	peak



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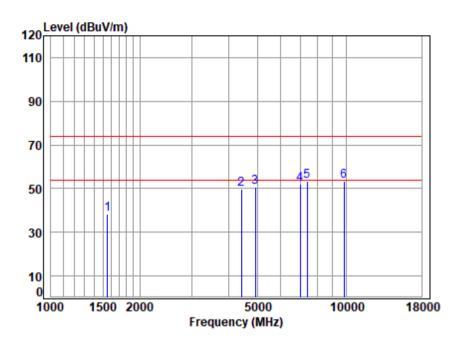


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078304

Page: 23 of 153

Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT

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	1551.677	4.13	26.99	38.40	45.70	38.42	74.00	-35.58	peak
2	4417.841	7.07	34.59	35.78	43.65	49.53	74.00	-24.47	peak
3	4924.000	7.39	34.65	35.44	43.84	50.44	74.00	-23.56	peak
4	6974.982	8.90	35.75	35.55	43.01	52.11	74.00	-21.89	peak
5									•
6	p 9848.000	12.53	37.20	37.40	41.11	53.44	74.00	-20.56	peak



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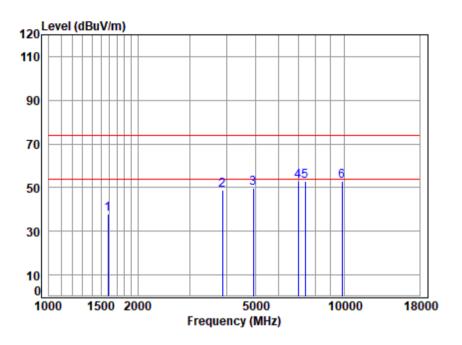


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078304

Page: 24 of 153

Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT

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	158	37.975	4.18	26.85	38.40	45.29	37.92	74.00	-36.08	peak
2	387	79.027	6.65	33.51	36.10	44.92	48.98	74.00	-25.02	peak
3	492	4.000	7.39	34.65	35.44	43.02	49.62	74.00	-24.38	peak
4	697	4.982	8.90	35.75	35.55	43.61	52.71	74.00	-21.29	peak
5	738	36.000	9.39	35.77	35.97	43.61	52.80	74.00	-21.20	peak
6	p 984	18.000	12.53	37.20	37.40	40.82	53.15	74.00	-20.85	peak



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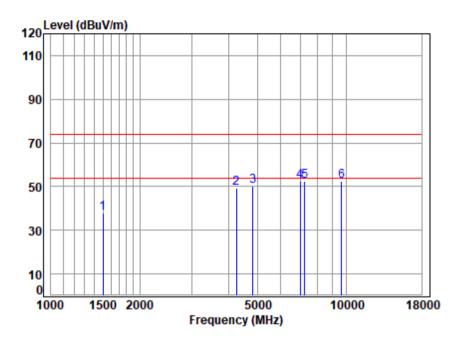


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT

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	1503.119	4.07	26.81	38.39	45.44	37.93	74.00	-36.07	peak
2	4242.641	6.95	33.80	35.91	44.27	49.11	74.00	-24.89	peak
3	4824.000	7.33	34.40	35.50	44.08	50.31	74.00	-23.69	peak
4	6974.982	8.90	35.75	35.55	43.40	52.50	74.00	-21.50	peak
5	7236.000	9.21	35.70	35.82	43.33	52.42	74.00	-21.58	peak
6 r	9648.000	12.39	37.50	37.45	40.08	52.52	74.00	-21.48	peak



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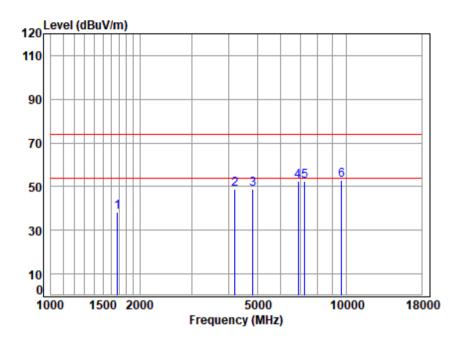


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078304

Page: 26 of 153

Test Mode: 04: Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT

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		1682.477	4.31	26.24	38.41	46.35	38.49	74.00	-35.51	peak
2		4193.872	6.92	33.80	35.95	44.00	48.77	74.00	-25.23	peak
3		4824.000	7.33	34.40	35.50	42.80	49.03	74.00	-24.97	peak
4		6874.906	8.83	35.55	35.49	43.64	52.53	74.00	-21.47	peak
5		7236.000	9.21	35.70	35.82	43.32	52.41	74.00	-21.59	peak
6	р	9648.000	12.39	37.50	37.45	40.34	52.78	74.00	-21.22	peak



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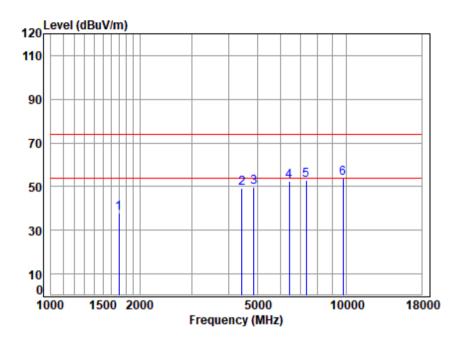


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078304

Page: 27 of 153

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT

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		1702.042	4.33	26.22	38.42	45.75	37.88	74.00	-36.12	peak
2		4430.628	7.08	34.43	35.77	43.46	49.20	74.00	-24.80	peak
3		4874.000	7.36	34.60	35.47	43.11	49.60	74.00	-24.40	peak
4		6414.167	8.49	35.29	35.19	43.66	52.25	74.00	-21.75	peak
5		7311.000	9.30	35.70	35.89	43.62	52.73	74.00	-21.27	peak
6	р	9748.000	12.46	37.40	37.43	41.33	53.76	74.00	-20.24	peak



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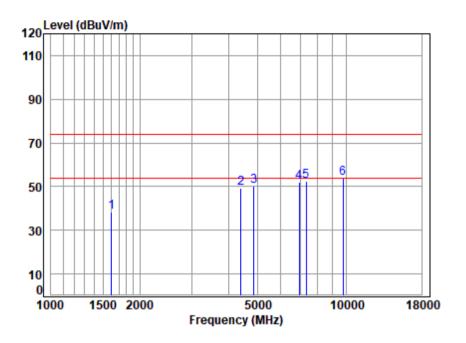


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078304

Page: 28 of 153

Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT

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		1601.804	4.20	26.78	38.40	45.65	38.23	74.00	-35.77	peak
2		4405.090	7.06	34.74	35.79	43.18	49.19	74.00	-24.81	peak
3		4874.000	7.36	34.60	35.47	43.59	50.08	74.00	-23.92	peak
4		6934.778	8.87	35.74	35.53	43.16	52.24	74.00	-21.76	peak
5		7311.000	9.30	35.70	35.89	43.40	52.51	74.00	-21.49	peak
6	р	9748.000	12.46	37.40	37.43	41.30	53.73	74.00	-20.27	peak



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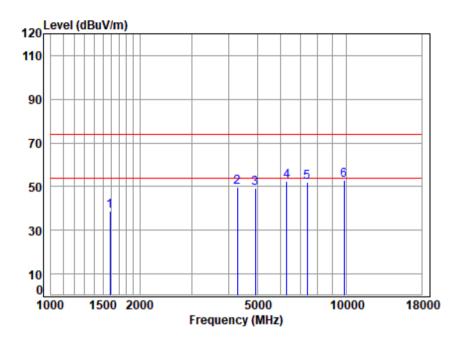


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078304

Page: 29 of 153

Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT

Mode : 2462 TX RSE

: 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	4.18	26.87	38.40	46.04	38.69	74.00	-35.31	peak
2	4291.977	6.99	33.97	35.88	44.43	49.51	74.00	-24.49	peak
3	4924.000	7.39	34.65	35.44	42.72	49.32	74.00	-24.68	peak
4	6303.890	8.41	34.99	35.11	44.08	52.37	74.00	-21.63	peak
5	7386.000	9.39	35.77	35.97	42.82	52.01	74.00	-21.99	peak
6	p 9848.000	12.53	37.20	37.40	40.81	53.14	74.00	-20.86	peak



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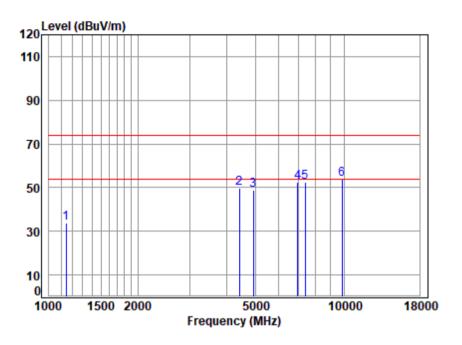


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078304

Page: 30 of 153

Test Mode: 04: Polarity: Vertical: Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT

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	114	45.507	3.48	23.88	38.33	44.67	33.70	74.00	-40.30	peak
2	44	17.841	7.07	34.59	35.78	43.70	49.58	74.00	-24.42	peak
3	49	24.000	7.39	34.65	35.44	42.44	49.04	74.00	-24.96	peak
4	69	54.852	8.89	35.79	35.54	43.54	52.68	74.00	-21.32	peak
5	73	86.000	9.39	35.77	35.97	43.18	52.37	74.00	-21.63	peak
6	p 98	48.000	12.53	37.20	37.40	41.29	53.62	74.00	-20.38	peak



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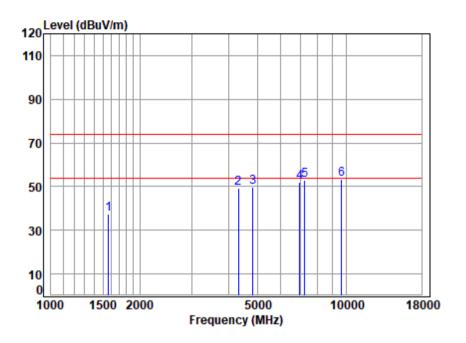


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT

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		1569.721	4.16	26.92	38.40	44.76	37.44	74.00	-36.56	peak	
2		4316.859	7.00	34.13	35.86	43.83	49.10	74.00	-24.90	peak	
3		4824.000	7.33	34.40	35.50	43.68	49.91	74.00	-24.09	peak	
4		6954.852	8.89	35.79	35.54	42.72	51.86	74.00	-22.14	peak	
5		7236.000	9.21	35.70	35.82	43.81	52.90	74.00	-21.10	peak	
6	р	9648.000	12.39	37.50	37.45	40.94	53.38	74.00	-20.62	peak	



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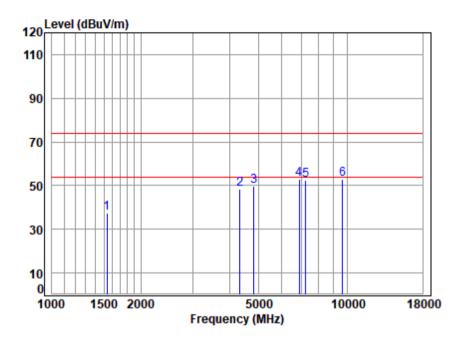


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT

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		1533.841	4.11	26.94	38.39	44.78	37.44	74.00	-36.56	peak
2		4329.354	7.01	34.23	35.85	43.10	48.49	74.00	-25.51	peak
3		4824.000	7.33	34.40	35.50	43.34	49.57	74.00	-24.43	peak
4	р	6874.906	8.83	35.55	35.49	43.97	52.86	74.00	-21.14	peak
5		7236.000	9.21	35.70	35.82	43.56	52.65	74.00	-21.35	peak
6		9648.000	12.39	37.50	37.45	40.26	52.70	74.00	-21.30	peak



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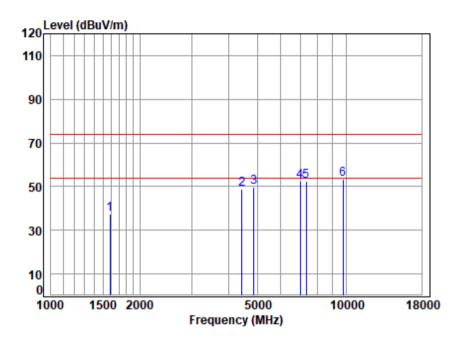


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT

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	4.18	26.87	38.40	44.71	37.36	74.00	-36.64	peak	
2		4430.628	7.08	34.43	35.77	43.15	48.89	74.00	-25.11	peak	
3		4874.000	7.36	34.60	35.47	43.33	49.82	74.00	-24.18	peak	
4		6974.982	8.90	35.75	35.55	43.28	52.38	74.00	-21.62	peak	
5		7311.000	9.30	35.70	35.89	43.40	52.51	74.00	-21.49	peak	
6	р	9748.000	12.46	37.40	37.43	40.85	53.28	74.00	-20.72	peak	



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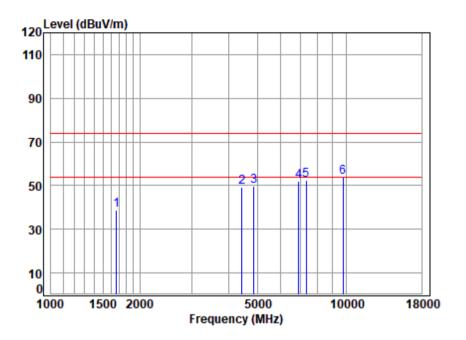


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT

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		1667.951	4.29	26.26	38.41	46.50	38.64	74.00	-35.36	peak
2		4443.453	7.09	34.28	35.77	43.50	49.10	74.00	-24.90	peak
3		4874.000	7.36	34.60	35.47	43.37	49.86	74.00	-24.14	peak
4		6914.763								•
5		7311.000	9.30	35.70	35.89	43.46	52.57	74.00	-21.43	peak
6	р	9748.000	12.46	37.40	37.43	41.23	53.66	74.00	-20.34	peak



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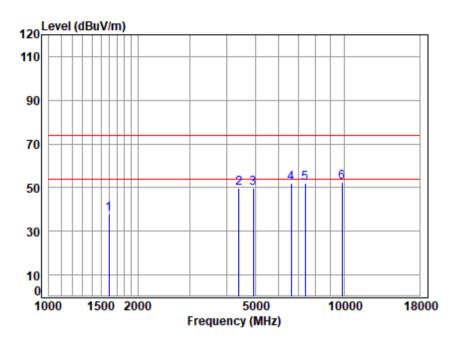


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT

Mode : 2462 TX RSE

: 2.4G WIFI 11AX20

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1597.181	4.20	26.81	38.40	45.09	37.70	74.00	-36.30	peak	
2		4405.090	7.06	34.74	35.79	43.76	49.77	74.00	-24.23	peak	
3					35.44					•	
4		6621.375								•	
5		7386.000								•	
6	р	9848.000								•	



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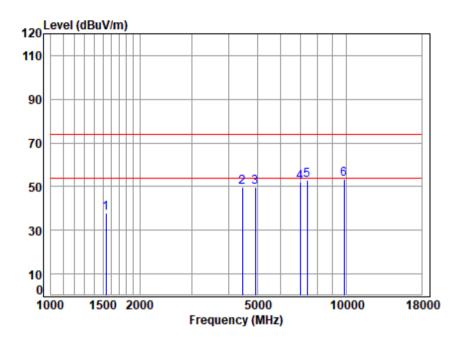


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT

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		1538.281	4.12	26.95	38.39	45.05	37.73	74.00	-36.27	peak
2		4456.315	7.09	34.12	35.76	44.24	49.69	74.00	-24.31	peak
3		4924.000	7.39	34.65	35.44	42.92	49.52	74.00	-24.48	peak
4		6974.982								•
5		7386.000	9.39	35.77	35.97	43.68	52.87	74.00	-21.13	peak
6	р	9848.000	12.53	37.20	37.40	41.00	53.33	74.00	-20.67	peak



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7.3 Radiated Spurious Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 45.8 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), data rate @ MCS0 is the worst case of IEEE 802.11ax20, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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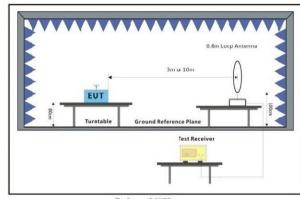
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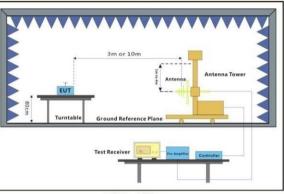


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7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.3.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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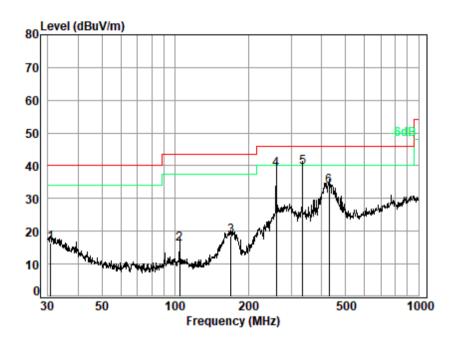


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL Job No. : 00783AT/00784AT

Test Mode: 04

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.85	20.81	0.65	27.80	22.83	16.49	40.00	-23.51	QP
2	104.54	12.21	1.21	27.59	30.27	16.10	43.50	-27.40	QP
3	169.60	13.25	1.57	27.36	31.02	18.48	43.50	-25.02	QP
4	260.14	17.22	1.99	27.03	46.87	39.05	46.00	-6.95	QP
5 q	333.69	18.80	2.30	27.04	45.45	39.51	46.00	-6.49	QP
6	428.02	20.85	2.65	27.46	37.86	33.90	46.00	-12.10	OP



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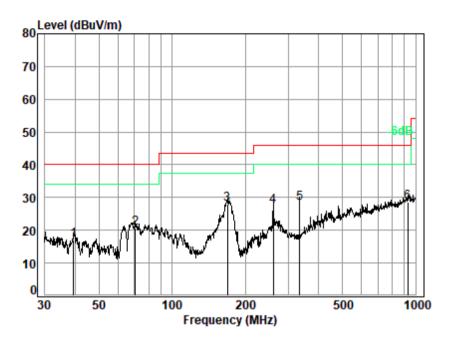


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 00783AT/00784AT

Test Mode: 04

		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	39.44	16.66	0.74	27.78	27.47	17.09	40.00	-22.91	QP
2	70.58	10.58	0.99	27.69	36.68	20.56	40.00	-19.44	QP
3 q	169.01	13.21	1.56	27.36	40.53	27.94	43.50	-15.56	QP
4	260.14	17.22	1.99	27.03	35.26	27.44	46.00	-18.56	QP
5	333.69	18.80	2.30	27.04	34.19	28.25	46.00	-17.75	QP
6	929.01	28.16	4.17	26.99	23.29	28.63	46.00	-17.37	OP



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7.4 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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.1 °C Humidity: 53.9 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

	The root more processing of									
Pre-scan / Final test	Mode Code	Description								
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), data rate @ MCS0 is the worst case of IEEE 802.11ax20, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.								



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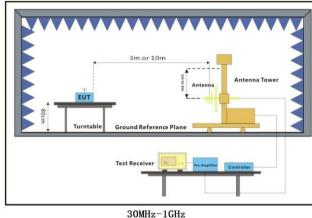
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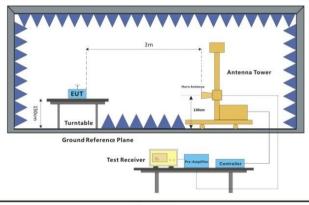


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7.4.3 Test Setup Diagram





Above 1GHz

7.4.4 Measurement Procedure and Data

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

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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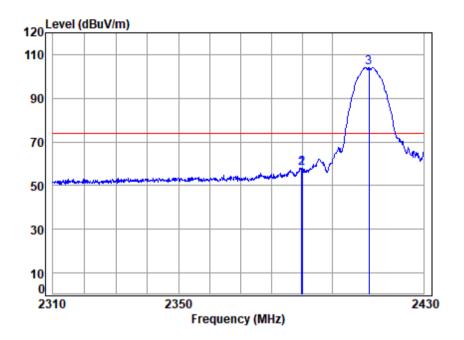


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT : 2412 Band edge Mode : 2.4G WIFI 11B Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	5.08	29.10	37.44	61.40	58.14	74.00	-15.86	peak
2	2390.000	5.08	29.10	37.44	61.03	57.77	74.00	-16.23	peak
3 p	2412.000	5.10	29.05	37.38	107.34	104.11	74.00	30.11	peak



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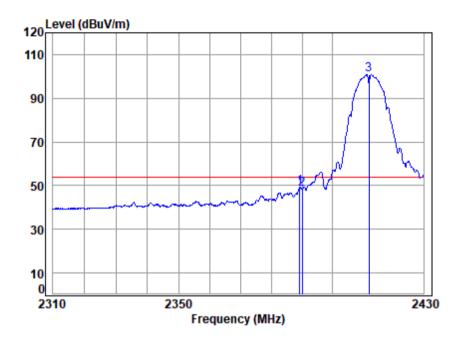


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT Mode : 2412 Band edge Note : 2.4G WIFI 11B

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.242	5.07	29.10	37.44	52.62	49.35	54.00	-4.65	Average
2	2390.000	5.08	29.10	37.44	51.46	48.20	54.00	-5.80	Average
3 q	2412.000	5.10	29.05	37.38	104.18	100.95	54.00	46.95	Average



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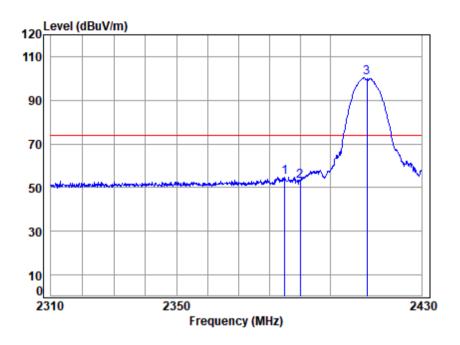


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT Mode : 2412 Band edge · 2 4G WTET 11B Note

Le	: Z.	4G WIF	I IID							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
							•			
	2385.011	5.07	29.10	37.45	58.17	54.89	74.00	-19.11	Peak	
2	2390.000	5.08	29.10	37.44	55.98	52.72	74.00	-21.28	Peak	
r	2412.000	5.10	29.05	37.38	103.58	100.35	74.00	26.35	Peak	



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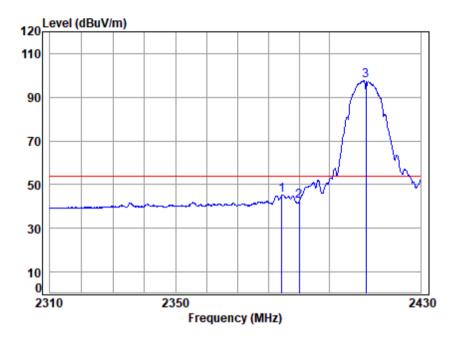


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT : 2412 Band edge Mode Note : 2.4G WIFI 11B

Cable Ant Preamp Read Limit	•
Freq Loss Factor Factor Level Level Line L	
	dB
2384.407 5.07 29.10 37.45 48.51 45.23 54.00 -	
2390.000 5.08 29.10 37.44 45.65 42.39 54.00 -1 q 2412.000 5.10 29.05 37.38 101.01 97.78 54.00 4	11.61 Average



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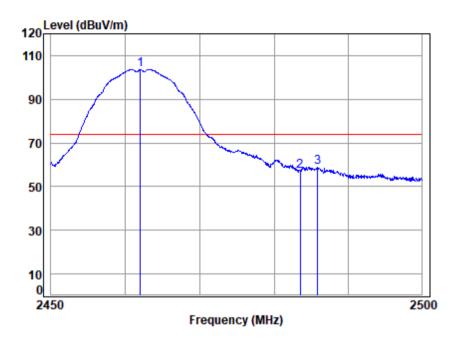


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT Mode : 2462 Band edge Note : 2.4G WIFI 11B

	Freq					Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	5.14	28.90	37.27	106.90	103.67	74.00	29.67	peak
2	2483.500	5.16	28.90	37.22	60.32	57.16	74.00	-16.84	peak
3	2485.898	5.16	28.90	37.21	62.14	58.99	74.00	-15.01	peak



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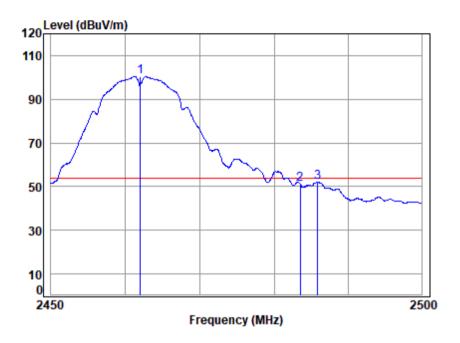


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT 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 q	2462.000	5.14	28.90	37.27	103.72	100.49	54.00	46.49	Average
2	2483.500	5.16	28.90	37.22	54.32	51.16	54.00	-2.84	Average
3	2485.898	5.16	28.90	37.21	55.10	51.95	54.00	-2.05	Average



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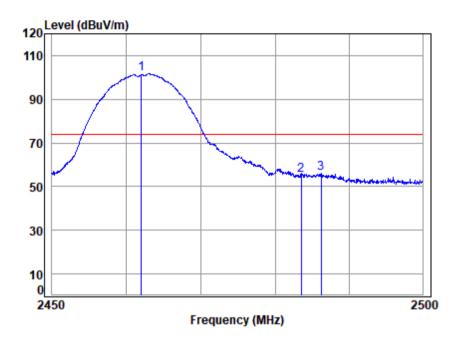


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT : 2462 Band edge Mode Note : 2.4G WIFI 11B

		Cable	Ant	${\bf Preamp}$	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	5.14	28.90	37.27	104.90	101.67	74.00	27.67	Peak
2	2483.500	5.16	28.90	37.22	58.33	55.17	74.00	-18.83	Peak
3	2486.199	5.16	28.90	37.21	59.27	56.12	74.00	-17.88	Peak



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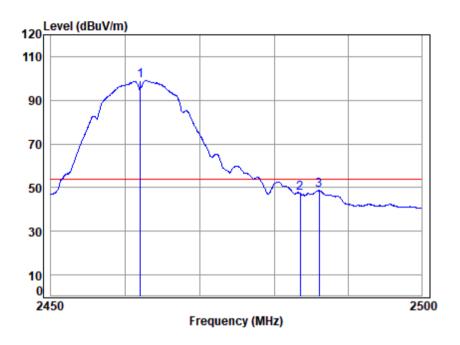


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Test Mode: 04; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT : 2462 Band edge Mode : 2.4G WIFI 11B Note

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	q	2462.000	5.14	28.90	37.27	102.23	99.00	54.00	45.00	Average	
2		2483.500	5.16	28.90	37.22	50.53	47.37	54.00	-6.63	Average	
3		2486.099	5.16	28.90	37.21	51.86	48.71	54.00	-5.29	Average	



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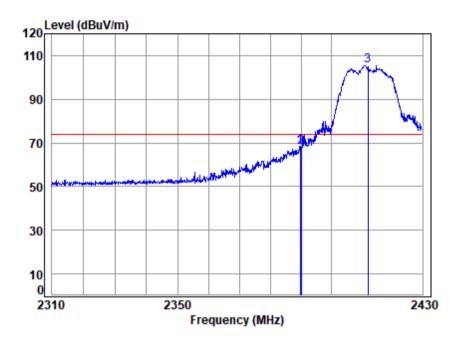


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT Mode : 2412 Band edge Note : 2.4G WIFI 11G

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.726	5.08	29.10	37.44	71.63	68.37	74.00	-5.63	peak
2	2390.000	5.08	29.10	37.44	71.42	68.16	74.00	-5.84	peak
3 p	2412.000	5.10	29.05	37.38	108.68	105.45	74.00	31.45	peak



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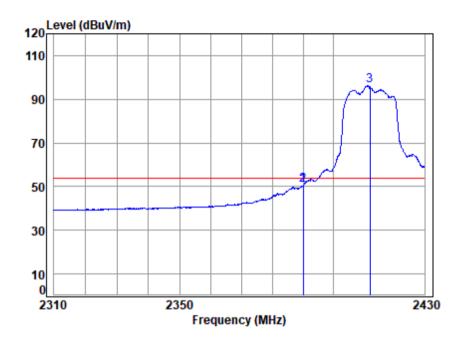


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT Mode : 2412 Band edge Note : 2.4G WIFI 11G

	Freq						Limit Line		
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.08	29.10	37.44	53.84	50.58	54.00	-3.42	Average
2	2390.000	5.08	29.10	37.44	53.84	50.58	54.00	-3.42	Average
3 q	2412.000	5.10	29.05	37.38	99.46	96.23	54.00	42.23	Average



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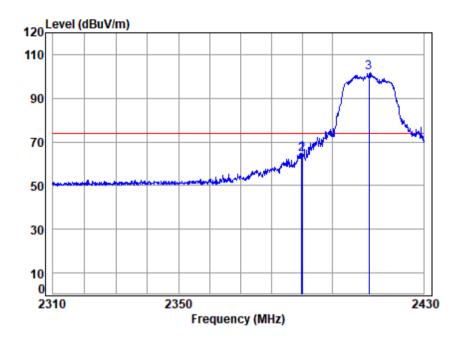


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT : 2412 Band edge Mode : 2.4G WIFI 11G Note

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.847	5.08	29.10	37.44	67.95	64.69	74.00	-9.31	Peak
2390.000	5.08	29.10	37.44	67.77	64.51	74.00	-9.49	Peak
2412.000	5.10	29.05	37.38	104.77	101.54	74.00	27.54	Peak
	MHz 2389.847 2390.000	Freq Loss MHz dB 2389.847 5.08 2390.000 5.08	Freq Loss Factor MHz dB dB/m 2389.847 5.08 29.10 2390.000 5.08 29.10	Freq Loss Factor Factor MHz dB dB/m dB 2389.847 5.08 29.10 37.44 2390.000 5.08 29.10 37.44	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2389.847 5.08 29.10 37.44 67.95 2390.000 5.08 29.10 37.44 67.77	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2389.847 5.08 29.10 37.44 67.95 64.69 2390.000 5.08 29.10 37.44 67.77 64.51	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2389.847 5.08 29.10 37.44 67.95 64.69 74.00 2390.000 5.08 29.10 37.44 67.77 64.51 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 <th< td=""></th<>



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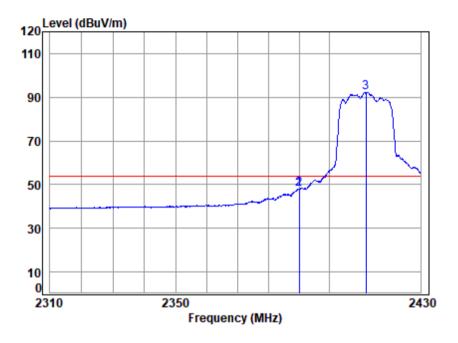


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT Mode : 2412 Band edge : 2.4G WIFI 11G Note

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.968	5.08	29.10	37.44	51.34	48.08	54.00	-5.92	Average	
2	2390.000	5.08	29.10	37.44	51.34	48.08	54.00	-5.92	Average	
3 q	2412.000	5.10	29.05	37.38	95.60	92.37	54.00	38.37	Average	



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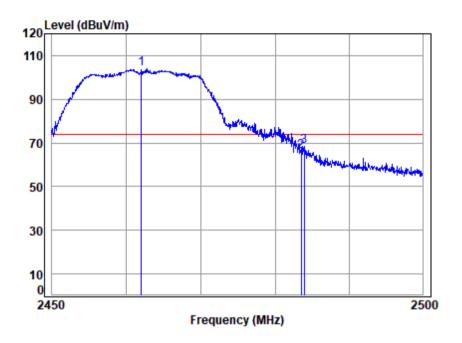


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT Mode : 2462 Band edge Note : 2.4G WIFI 11G

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	5.14	28.90	37.27	107.10	103.87	74.00	29.87	peak
2	2483.500	5.16	28.90	37.22	69.09	65.93	74.00	-8.07	peak
3	2483.940	5.16	28.90	37.22	71.50	68.34	74.00	-5.66	peak



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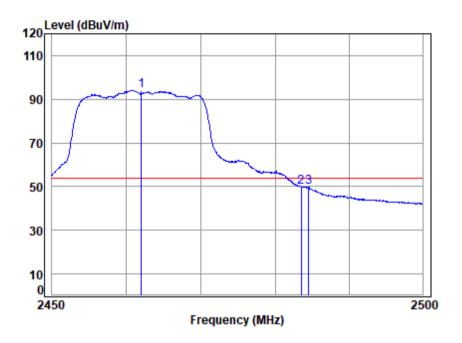


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT : 2462 Band edge Mode Note : 2.4G WIFI 11G

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2462.000 2483.500								_
3	2484.542	5.16	28.90	37.21	53.04	49.89	54.00	-4.11	Average



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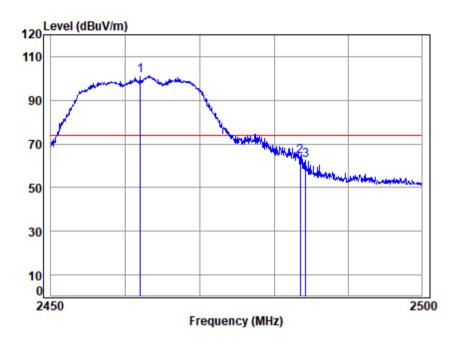


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT Mode : 2462 Band edge Note · 2 4G WIFT 11G

Le	. 2.4	+G MTL	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		
p	2462.000	5.14	28.90	37.27	104.32	101.09	74.00	27.09	Peak	
	2483.500									
,	2484.292	5.16	28.90	37.21	65.83	62.68	74.00	-11.32	Peak	



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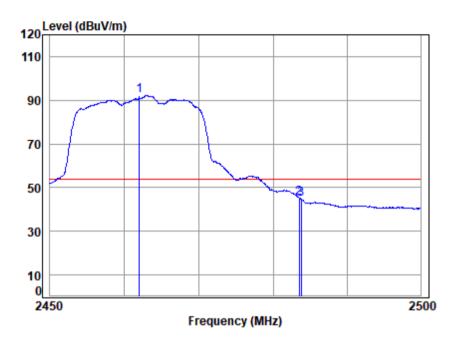


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Test Mode: 04; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT : 2462 Band edge Mode Note : 2.4G WIFI 11G

	Freq						Limit Line		Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	5.14	28.90	37.27	95.48	92.25	54.00	38.25	Average
2	2483.500	5.16	28.90	37.22	48.52	45.36	54.00	-8.64	Average
3	2483.790	5.16	28.90	37.22	47.81	44.65	54.00	-9.35	Average



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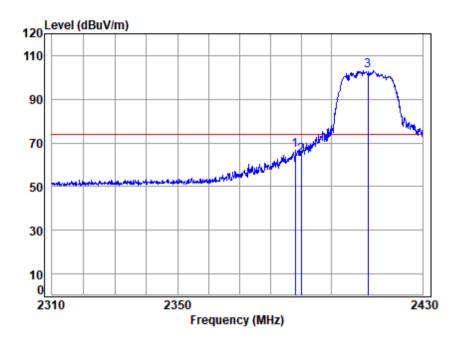


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT : 2412 Band edge Mode : 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.154	5.07	29.10	37.44	69.93	66.66	74.00	-7.34	peak
2	2390.000	5.08	29.10	37.44	67.53	64.27	74.00	-9.73	peak
3 p	2412.000	5.10	29.05	37.38	106.45	103.22	74.00	29.22	peak



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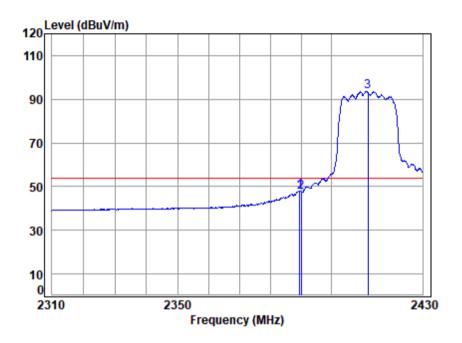


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT : 2412 Band edge Mode Note : 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.605	5.08	29.10	37.44	51.24	47.98	54.00	-6.02	Average
2	2390.000	5.08	29.10	37.44	50.78	47.52	54.00	-6.48	Average
3 q	2412.000	5.10	29.05	37.38	96.83	93.60	54.00	39.60	Average



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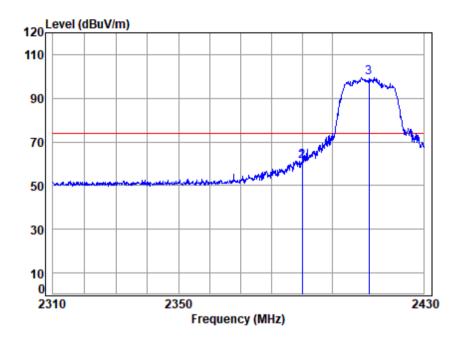


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT : 2412 Band edge Mode : 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.08	29.10	37.44	64.53	61.27	74.00	-12.73	Peak
2	2390.000	5.08	29.10	37.44	64.53	61.27	74.00	-12.73	Peak
3 p	2412.000	5.10	29.05	37.38	102.81	99.58	74.00	25.58	Peak



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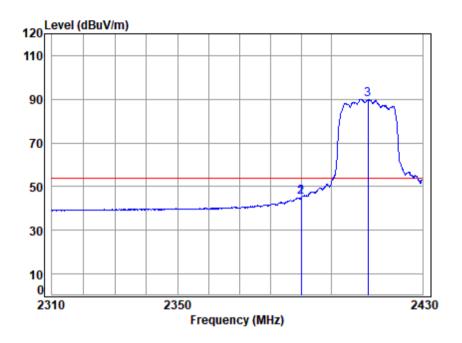


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT : 2412 Band edge Mode : 2.4G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.968	5.08	29.10	37.44	48.28	45.02	54.00	-8.98	Average	
2	2390.000	5.08	29.10	37.44	48.28	45.02	54.00	-8.98	Average	
3 q	2412.000	5.10	29.05	37.38	93.27	90.04	54.00	36.04	Average	



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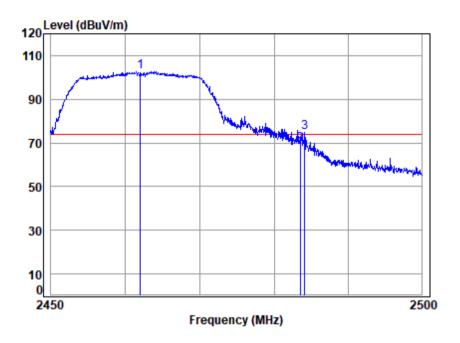


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT Mode : 2462 Band edge Note : 2.4G WIFI 11N20

				_					
	Гилл						Limit		Damanle
	Freq	LOSS	Factor	Factor	rever	rever	Line	LIMIC	Kemark
	MHz		dB/m	dB		dBuV/m	dBuV/m	dB	
	1112	ub	ub/ III	ub.	abav	ubuv/iii	abav/iii	ub.	
1	2462.000	5.14	28.90	37.27	105.88	102.65	74.00	28.65	peak
2	2483.500	5.16	28.90	37.22	72.60	69.44	74.00	-4.56	peak
3	. 2484.141	5.16	28.90	37.21	78.12	74.97	74.00	0.97	peak



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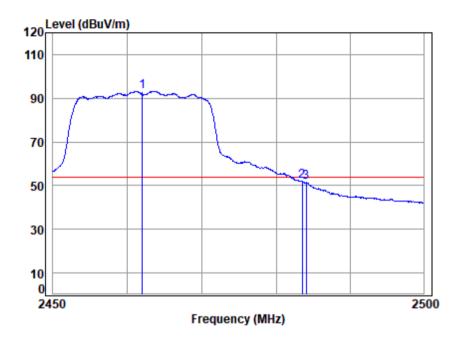


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT Mode : 2462 Band edge Note : 2.4G WIFI 11N20

	_				_					
		Enea			Preamp Factor					Romank
		rreq	LUSS	ractor	ractor	rever	rever	LINE	LIMIT	Kelliai K
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	2462.000	5.14	28.90	37.27	96.48	93.25	54.00	39.25	Average
		2483.500								_
										_
)		2484.091	5.10	20.90	31.22	34.09	21.33	34.00	-2.4/	Average



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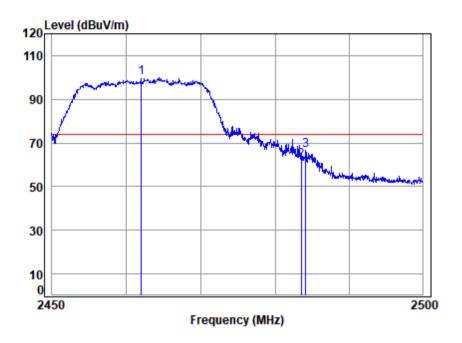


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT : 2462 Band edge Mode 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	p	2462.000	5.14	28.90	37.27	103.24	100.01	74.00	26.01	Peak
2		2483.500	5.16	28.90	37.22	65.12	61.96	74.00	-12.04	Peak
3		2484.141	5.16	28.90	37.21	69.80	66.65	74.00	-7.35	Peak



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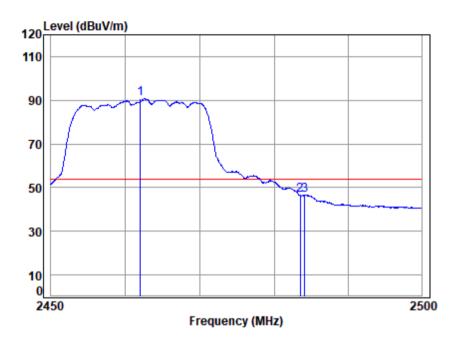


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT : 2462 Band edge Mode Note : 2.4G WIFI 11N20

							Limit		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHZ	dВ	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	2462 000	F 44	20.00	27 27	03.05	00.60	F4 00	26.62	
1 q	2462.000	5.14	28.90	3/.2/	93.85	90.62	54.00	36.62	Average
2	2483.500	5.16	28.90	37.22	49.66	46.50	54.00	-7.50	Average
3	2484.141	5.16	28.90	37.21	49.74	46.59	54.00	-7.41	Average



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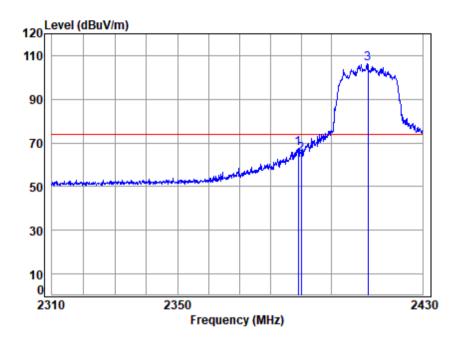


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT : 2412 Band edge Mode : 2.4G WIFI 11AX20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.000	5.07	29.10	37.44	70.79	67.52	74.00	-6.48	peak
2	2390.000	5.08	29.10	37.44	68.12	64.86	74.00	-9.14	peak
3 p	2412.000	5.10	29.05	37.38	109.69	106.46	74.00	32.46	peak



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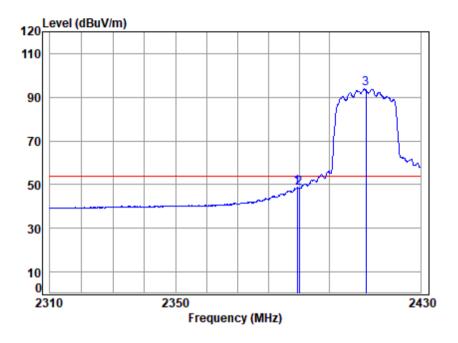


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT : 2412 Band edge Mode 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	2389.363	5.07	29.10	37.44	51.96	48.69	54.00	-5.31	Average
2	2390.000	5.08	29.10	37.44	51.67	48.41	54.00	-5.59	Average
3 q	2412.000	5.10	29.05	37.38	97.02	93.79	54.00	39.79	Average



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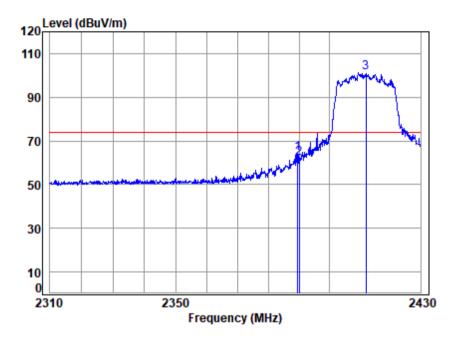


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT Mode : 2412 Band edge · 2 46 WTET 110X20 Note

ore	: Z.	4G WIF	I IIAV	20						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.484	5.07	29.10	37.44	67.73	64.46	74.00	-9.54	Peak	
2	2390.000	5.08	29.10	37.44	65.41	62.15	74.00	-11.85	Peak	
3 p	2412,000	5.10	29.05	37.38	104.41	101.18	74.00	27.18	Peak	



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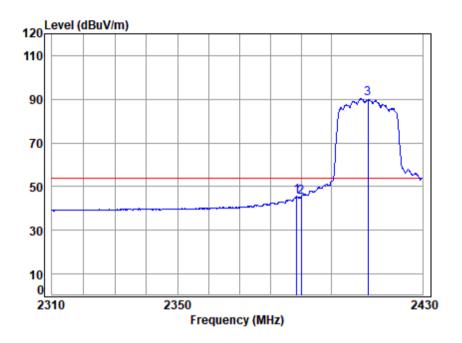


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT : 2412 Band edge Mode : 2.4G WIFI 11AX20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.516	5.07	29.10	37.44	48.70	45.43	54.00	-8.57	Average
2	2390.000	5.08	29.10	37.44	48.54	45.28	54.00	-8.72	Average
3 q	2412.000	5.10	29.05	37.38	93.72	90.49	54.00	36.49	Average



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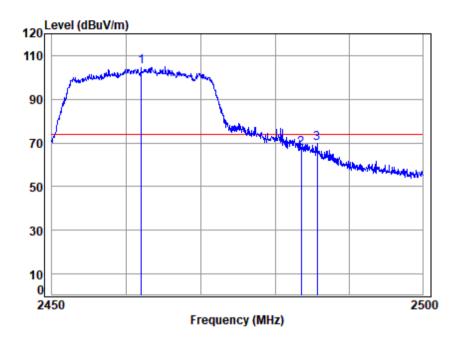


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Report No.: SZCR240300078304

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT : 2462 Band edge Mode 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 p	2462.000	5.14	28.90	37.27	108.31	105.08	74.00	31.08	peak
2	2483.500	5.16	28.90	37.22	70.91	67.75	74.00	-6.25	peak
3	2485.647	5.16	28.90	37.21	72.99	69.84	74.00	-4.16	peak



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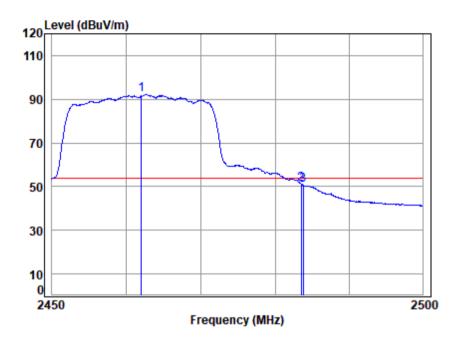


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL : 00783AT/00784AT : 2462 Band edge Mode 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 q	2462.000	5.14	28.90	37.27	95.46	92.23	54.00	38.23	Average
2	2483.500	5.16	28.90	37.22	54.49	51.33	54.00	-2.67	Average
3	2483.790	5.16	28.90	37.22	53.73	50.57	54.00	-3.43	Average



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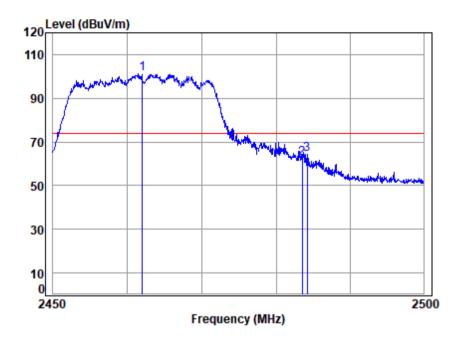


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT : 2462 Band edge Mode 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	
2462.000	5.14	28.90	37.27	104.54	101.31	74.00	27.31	Peak
2483.500	5.16	28.90	37.22	65.45	62.29	74.00	-11.71	Peak
2484.191	5.16	28.90	37.21	67.50	64.35	74.00	-9.65	Peak
	MHz 2462.000 2483.500	Freq Loss MHz dB 2462.000 5.14 2483.500 5.16	Freq Loss Factor MHz dB dB/m 2462.000 5.14 28.90 2483.500 5.16 28.90	Freq Loss Factor Factor MHz dB dB/m dB 2462.000 5.14 28.90 37.27 2483.500 5.16 28.90 37.22	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2462.000 5.14 28.90 37.27 104.54 2483.500 5.16 28.90 37.22 65.45	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2462.000 5.14 28.90 37.27 104.54 101.31 2483.500 5.16 28.90 37.22 65.45 62.29	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2462.000 5.14 28.90 37.27 104.54 101.31 74.00 2483.500 5.16 28.90 37.22 65.45 62.29 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 <th< td=""></th<>



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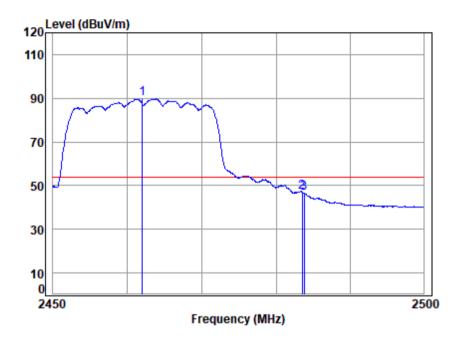


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 00783AT/00784AT Mode : 2462 Band edge : 2.4G WIFI 11AX20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	5.14	28.90	37.27	92.94	89.71	54.00	35.71	Average
2	2483.500	5.16	28.90	37.22	50.15	46.99	54.00	-7.01	Average
3	2483.790	5.16	28.90	37.22	49.69	46.53	54.00	-7.47	Average



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7.5 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).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 36.4 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), data rate @ MCS0 is the worst case of IEEE 802.11ax20, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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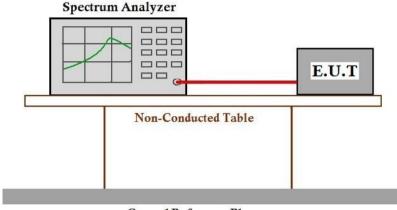


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7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Conducted 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).

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 36.4 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Tost Mode Description

1.0.2 TESLIV	7.6.2 Test Mode Description								
Pre-scan / Final test	Mode Code	Description							
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), data rate @ MCS0 is the worst case of IEEE 802.11ax20, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.							



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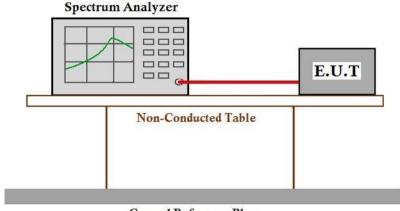


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7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 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

7.7.1 E.U.T. Operation

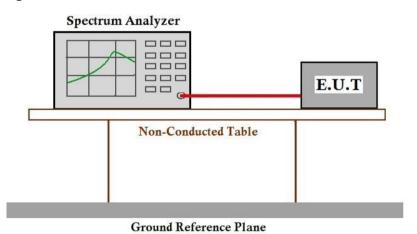
Operating Environment:

Temperature: 24.7 °C Humidity: 36.4 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), data rate @ MCS0 is the worst case of IEEE 802.11ax20, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 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

7.8.1 E.U.T. Operation

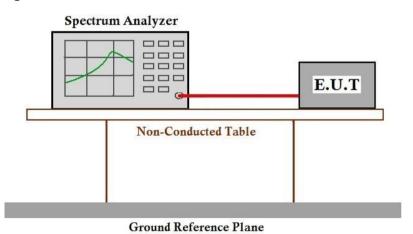
Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 24.7 °C Humidity: 36.4 % RH

7.8.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20), data rate @ MCS0 is the worst case of IEEE 802.11ax20, final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2403000783AT.

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2403000783AT



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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	/	/	12.417	12.440	99.82	0.01	0.03	
802.11b	SISO	2437	/	/	12.416	12.440	99.81	0.01	0.03
		2462	/	/	12.416	12.440	99.81	0.01	0.00
	SISO	2412		/	2.065	2.083	99.14	0.04	0.03
802.11g		2437	/	/	2.065	2.084	99.09	0.04	0.00
		2462	/	/	2.065	2.084	99.09	0.04	0.03
202.44		2412	/	/	1.920	1.939	99.02	0.04	0.03
802.11n (HT20)	MIMO	2437	/	/	1.921	1.940	99.02	0.04	0.03
(11120)		2462	/	/	1.920	1.939	99.02	0.04	0.03
222.44		2412	RU242	Left	1.488	1.507	98.74	0.06	0.03
802.11ax (HEW20)	МІМО	2437	RU242	Left	1.489	1.508	98.74	0.06	0.03
(112 7720)		2462	RU242	Left	1.488	1.507	98.74	0.06	0.03



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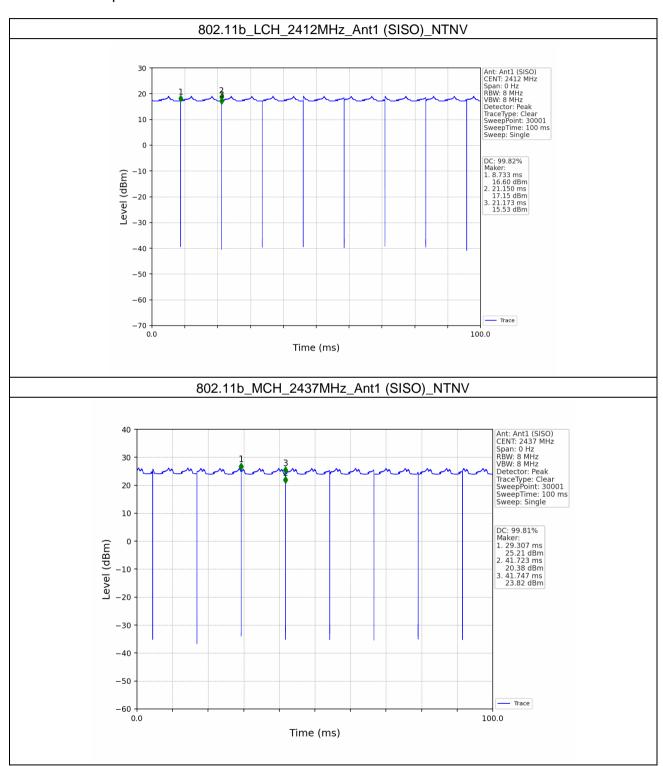


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1.1.2 Test Graph





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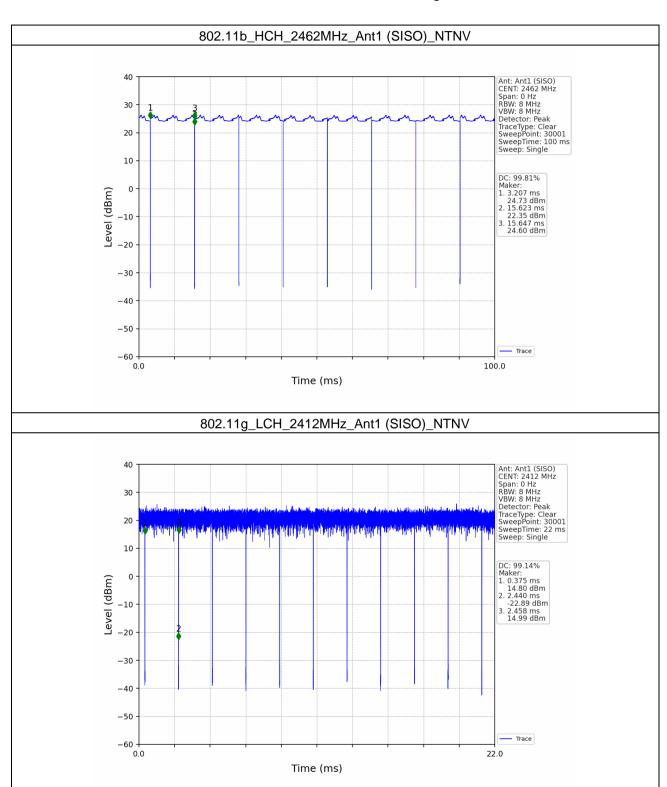
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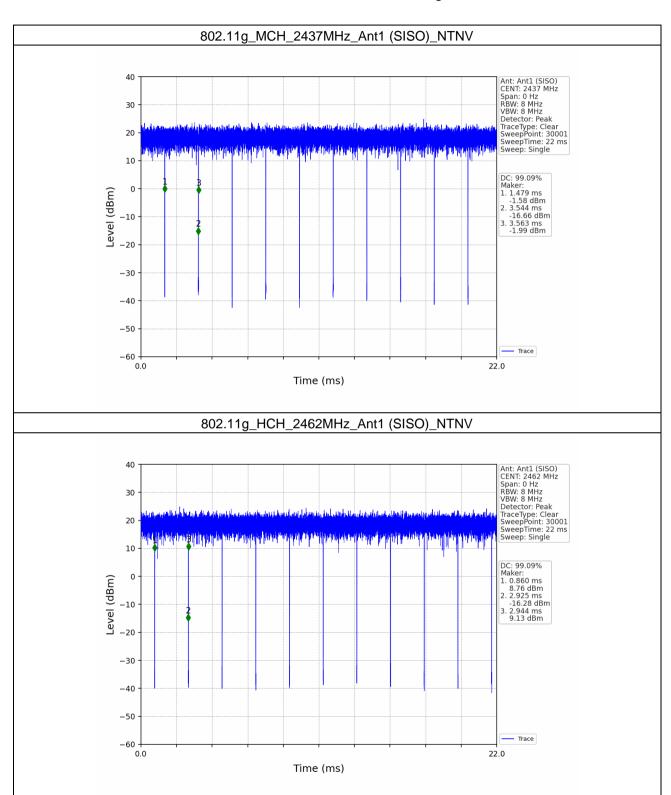
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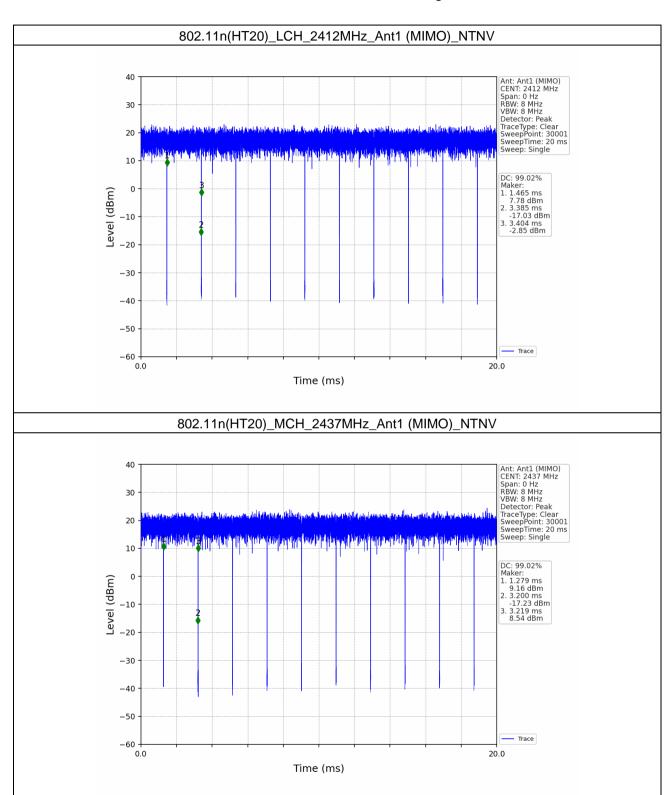
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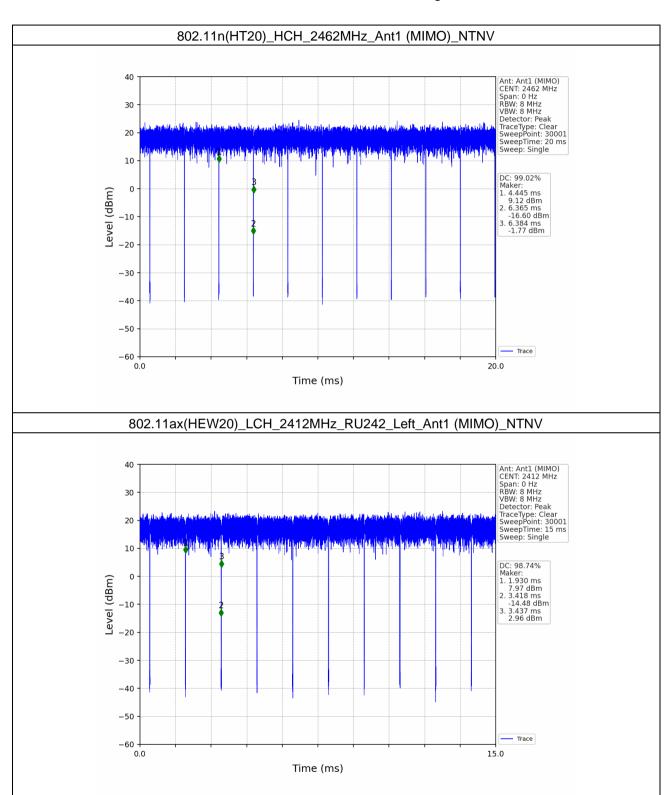
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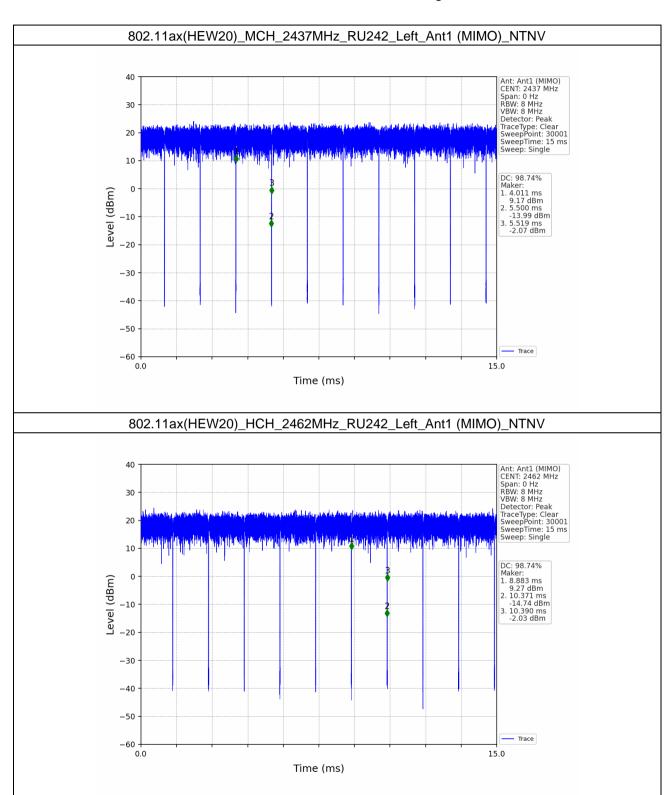
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX	Frequency	RU	RU	ANIT	99% Occupied E	Bandwidth (MHz)	\/a ==1:a4
Type	(MHz)	RU	Pos	ANT	Result	Limit	Verdict	
		2412	/	/	1	11.952	/	Pass
802.11b	SISO	2437	/	/	1	13.016	/	Pass
		2462	/	/	1	13.148	/	Pass
		2412	/	/	1	20.191	/	Pass
802.11g	SISO	2437	/	/	1	17.834	/	Pass
		2462	/	/	1	17.805	/	Pass
000 44		2412	/	/	1	18.525	/	Pass
802.11n (HT20)	MIMO	2437	/	/	1	18.517	/	Pass
(11120)		2462	/	/	1	18.507	/	Pass
000.44		2412	RU242	Left	1	19.289	/	Pass
802.11ax (HEW20)	MIMO	2437	RU242	Left	1	19.283	/	Pass
(1127720)		2462	RU242	Left	1	19.257	/	Pass



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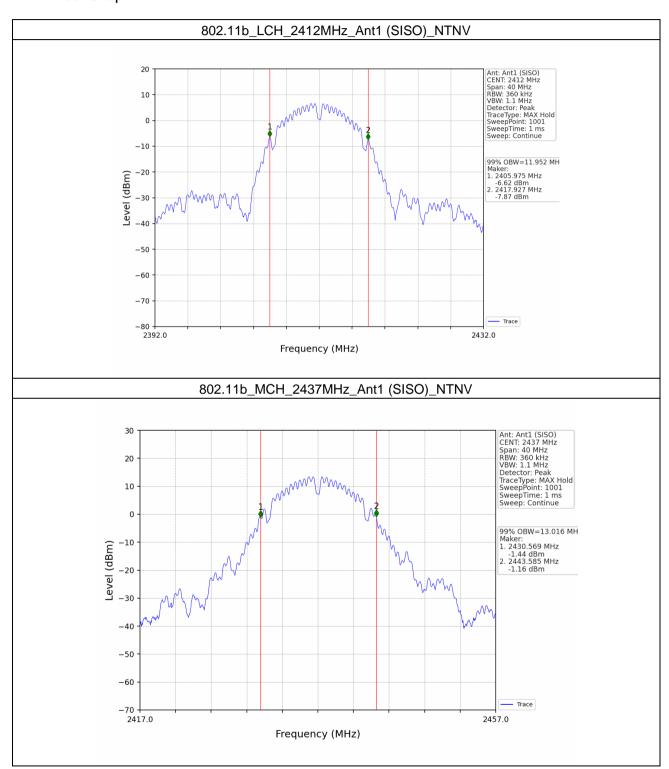


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2.1.2 Test Graph





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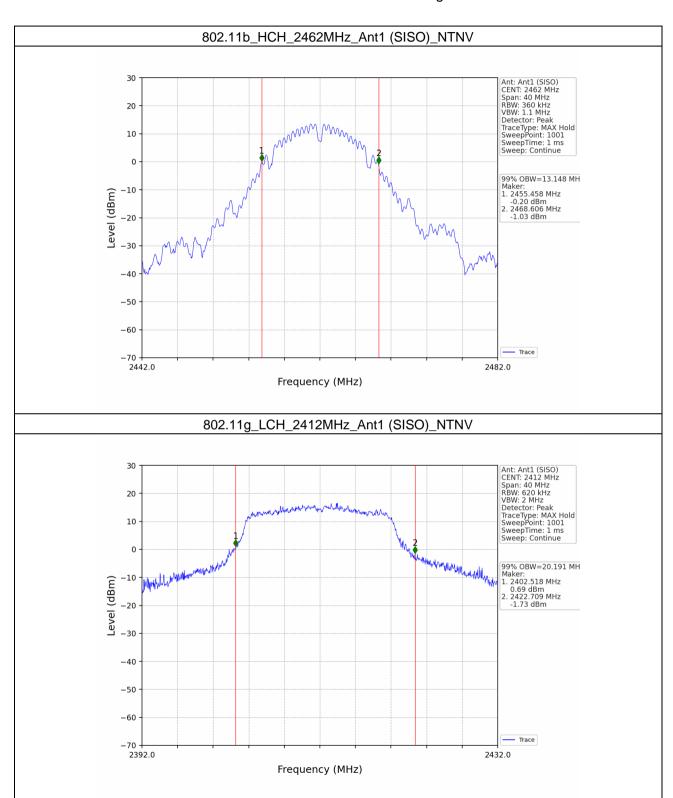
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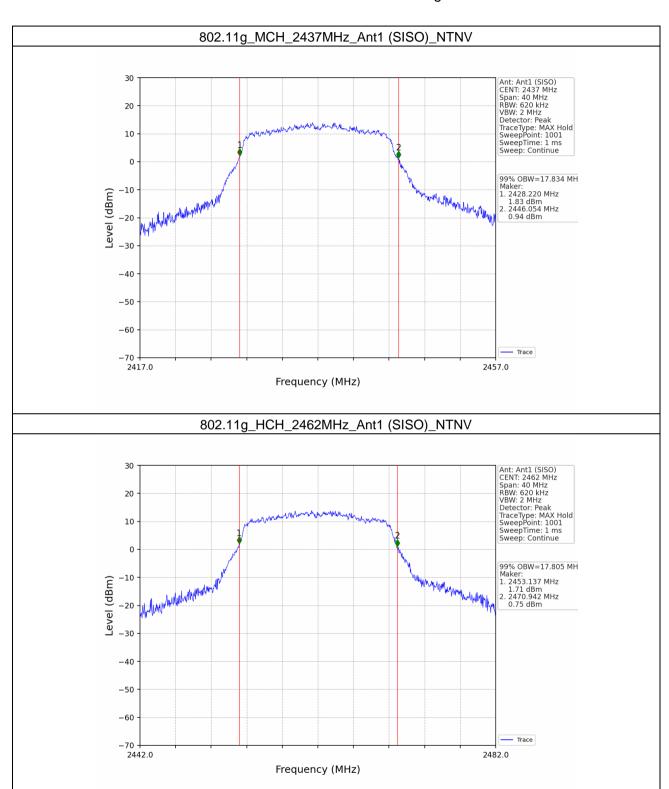
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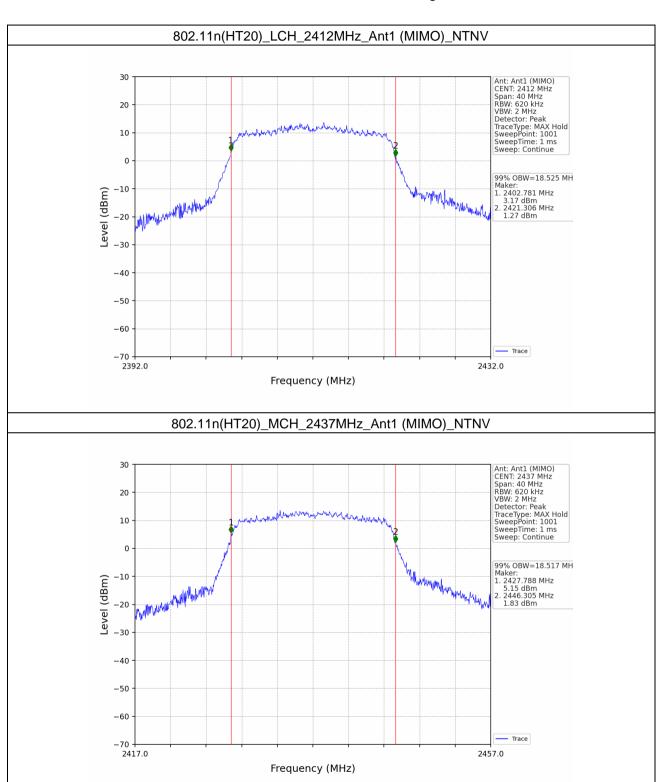
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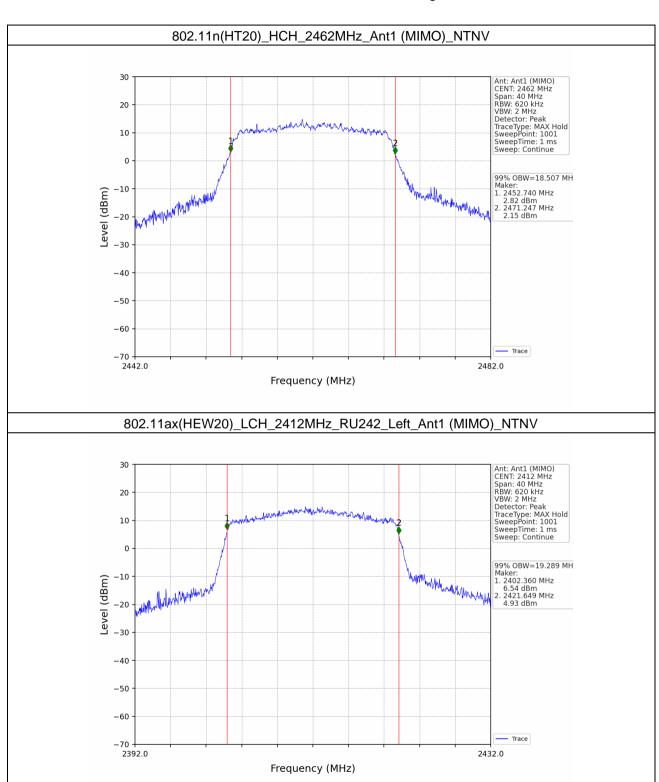
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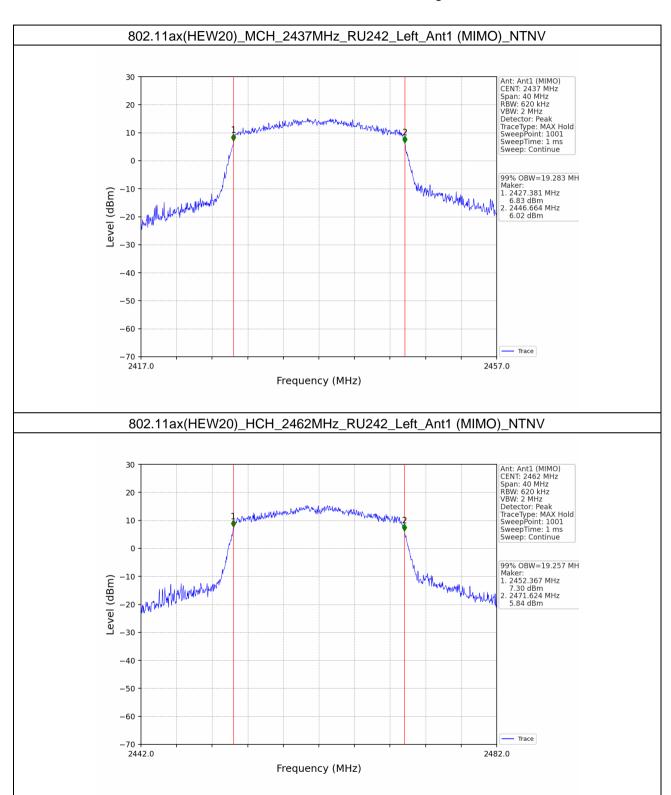
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2.2 6dB BW

2.2.1 Test Result

Mode	TX	Frequency	RU	RU	ANT	6dB Bandw	vidth (MHz)	Verdict	
iviode	Type	(MHz)	K	Pos	AINI	Result	Limit	verdict	
		2412	/	/	1	7.594	>=0.5	Pass	
802.11b	SISO	2437	/	/	1	8.020	>=0.5	Pass	
		2462	/	/	1	9.049	>=0.5	Pass	
		2412	/	/	1	16.378	>=0.5	Pass	
802.11g	SISO	2437	/	/	1	16.410	>=0.5	Pass	
		2462	/	/	1	16.415	>=0.5	Pass	
000.44		2412	/	/	1	17.637	>=0.5	Pass	
802.11n (HT20)	MIMO	2437	/	/	1	17.635	>=0.5	Pass	
(11120)		2462	/	/	1	17.627	>=0.5	Pass	
	MIMO	2412	RU242	Left	1	18.770	>=0.5	Pass	
802.11ax (HEW20)		2437	RU242	Left	1	18.744	>=0.5	Pass	
(1127720)		2462	RU242	Left	1	18.763	>=0.5	Pass	



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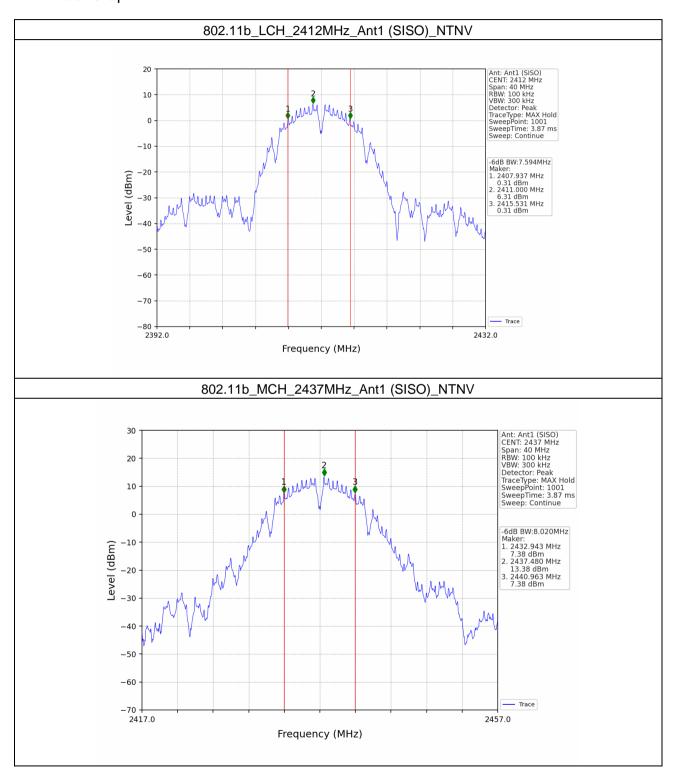


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2.2.2 Test Graph





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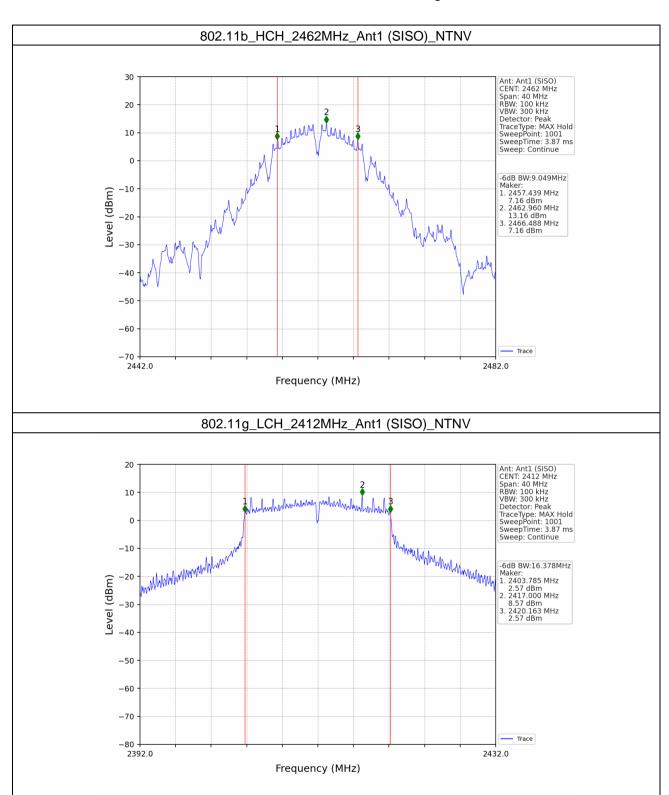
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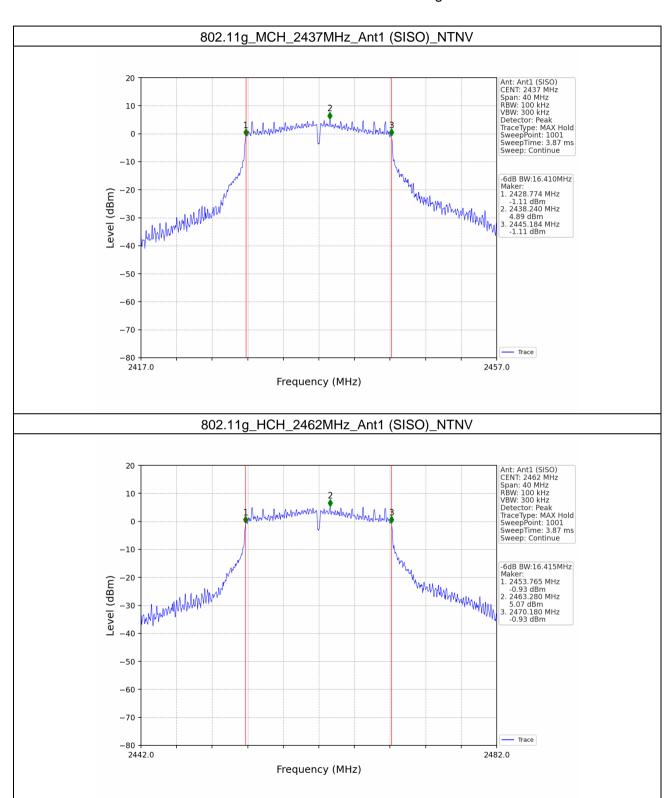
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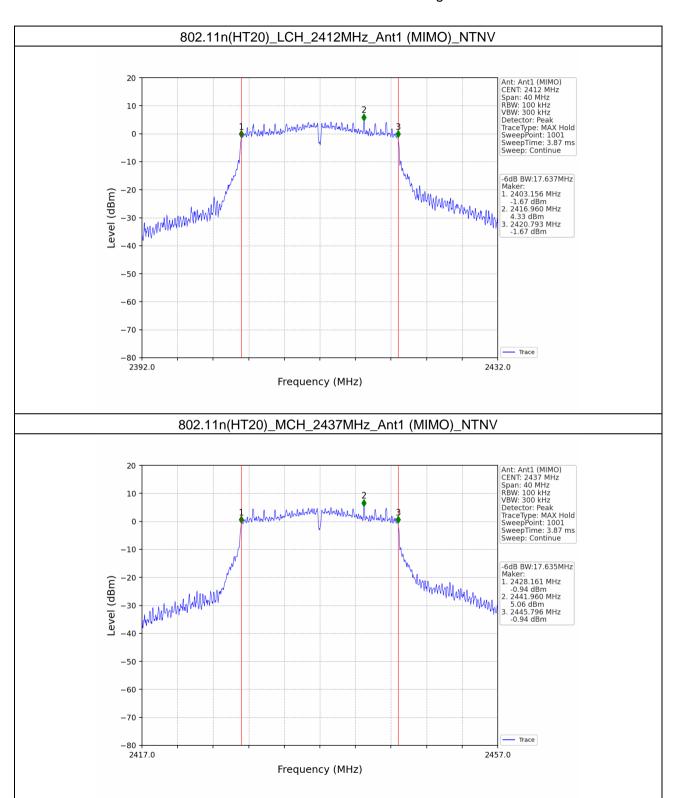
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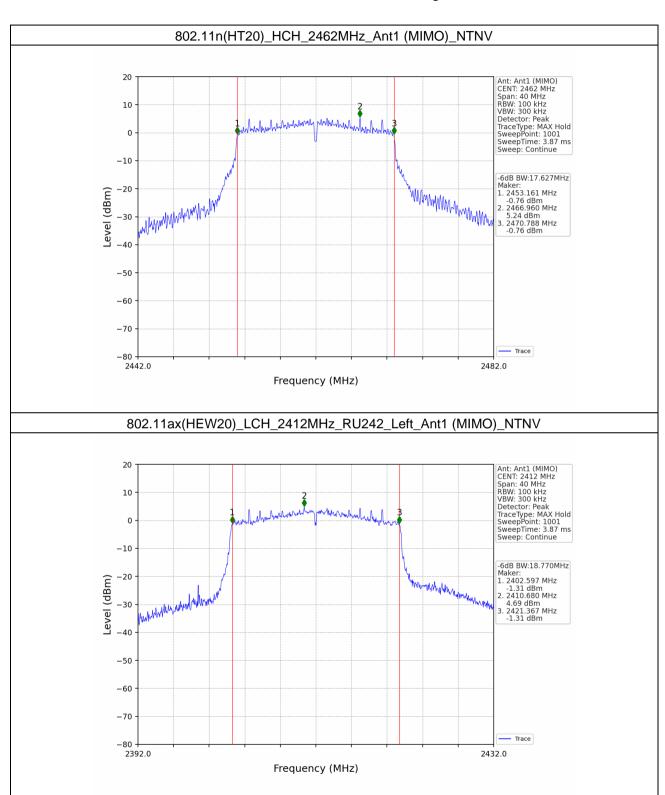
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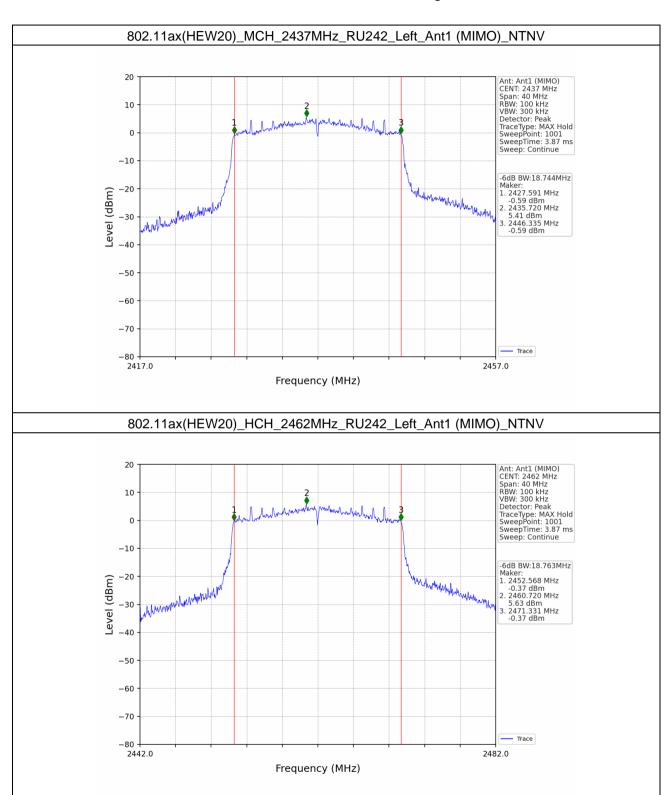
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX	Frequency (MHz)	RU	RU Pos	Maximum	put Power	Verdict											
	Туре	(IVITZ)		P05	ANT1	ANT2	MIMO	Limit										
		2412	/	/	17.86	17.45	/	<=30	Pass									
802.11b	SISO	2437	/	/	18.69	17.85	/	<=30	Pass									
											2462	/	/	19.02	18.51	/	<=30	Pass
						2412	/	/	15.94	15.19	/	<=30	Pass					
802.11g	SISO	2437	/	/	16.55	15.43	/	<=30	Pass									
		2462	/	/	15.57	14.70	/	<=30	Pass									
000.44		2412	/	/	14.92	14.19	17.58	<=30	Pass									
802.11n (HT20)	MIMO	2437	/	/	16.58	15.39	19.04	<=30	Pass									
(11120)		2462	/	/	14.34	13.58	16.99	<=30	Pass									
000.44		2412	RU242	Left	14.88	14.23	17.58	<=30	Pass									
802.11ax (HEW20)	MIMO	2437	RU242	Left	16.87	15.72	19.34	<=30	Pass									
(1127720)		2462	RU242	Left	15.77	14.85	18.34	<=30	Pass									



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX	Frequency	DII	RU	Max	ximum PSI	O (dBm/3k	Hz)	Vardiat
Mode	Туре	(MHz)	RU	Pos	ANT1	ANT2	MIMO	Limit	Verdict
		2412	/	/	-3.49	-4.63	/	<=8	Pass
802.11b	SISO	2437	/	/	-3.97	-4.16	/	<=8	Pass
		2462	/	/	-3.02	-3.72	/	<=8	Pass
		2412	/	/	-8.54	-9.40	/	<=8	Pass
802.11g	SISO	2437	/	/	-8.37	-9.48	/	<=8	Pass
		2462	/	/	-9.09	-9.28	/	<=8	Pass
000.44		2412	/	/	-9.81	-10.43	-8.15	<=8	Pass
802.11n (HT20)	MIMO	2437	/	/	-8.82	-9.35	-6.76	<=8	Pass
(11120)		2462	/	/	-10.42	-11.35	-7.98	<=8	Pass
222.44	MIMO	2412	RU242	Left	-10.55	-10.93	-8.51	<=8	Pass
802.11ax (HEW20)		2437	RU242	Left	-8.34	-8.58	-5.45	<=8	Pass
(1127720)		2462	RU242	Left	-9.46	-10.74	-8.14	<=8	Pass



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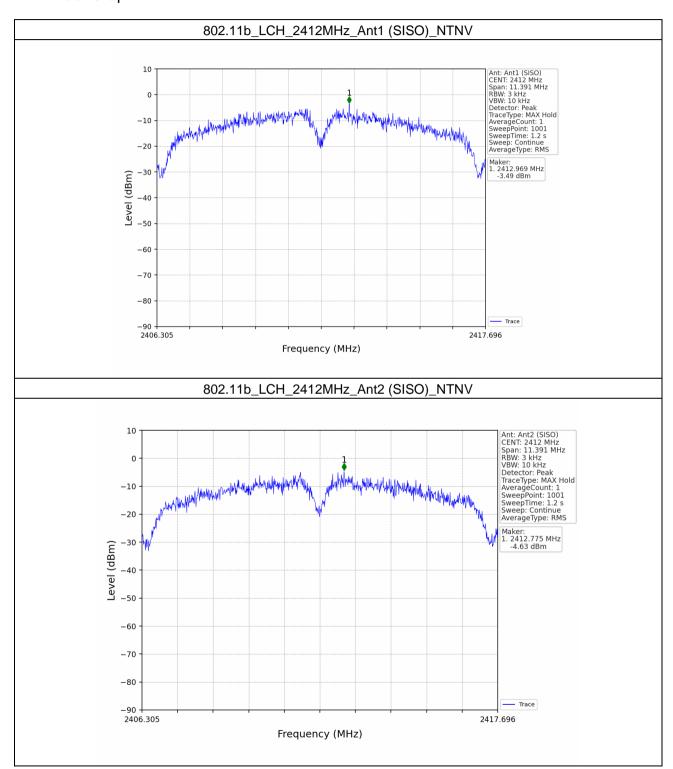


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4.1.2 Test Graph





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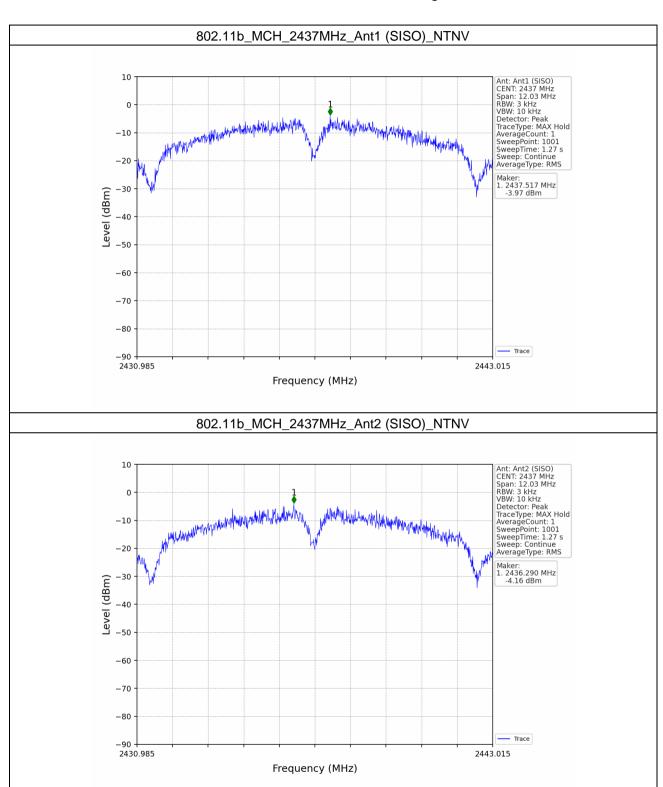
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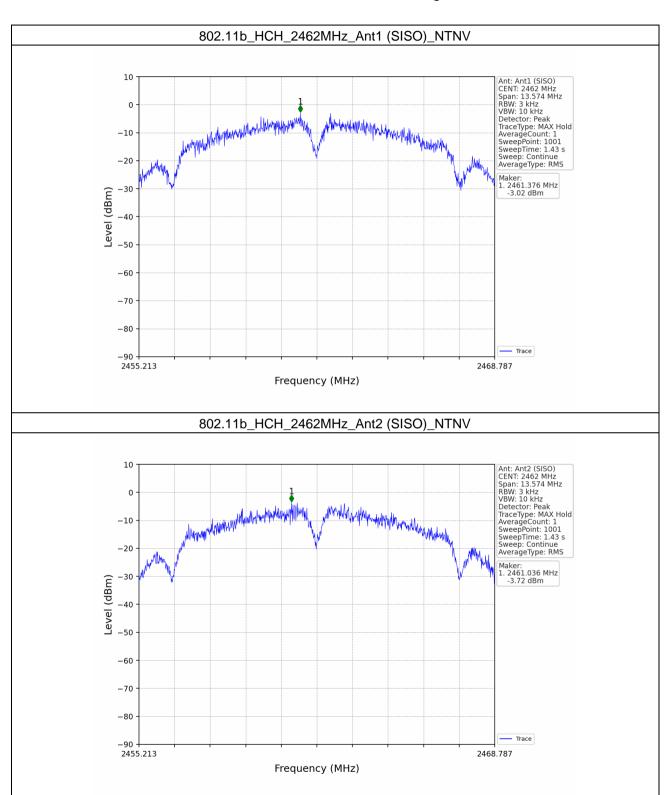
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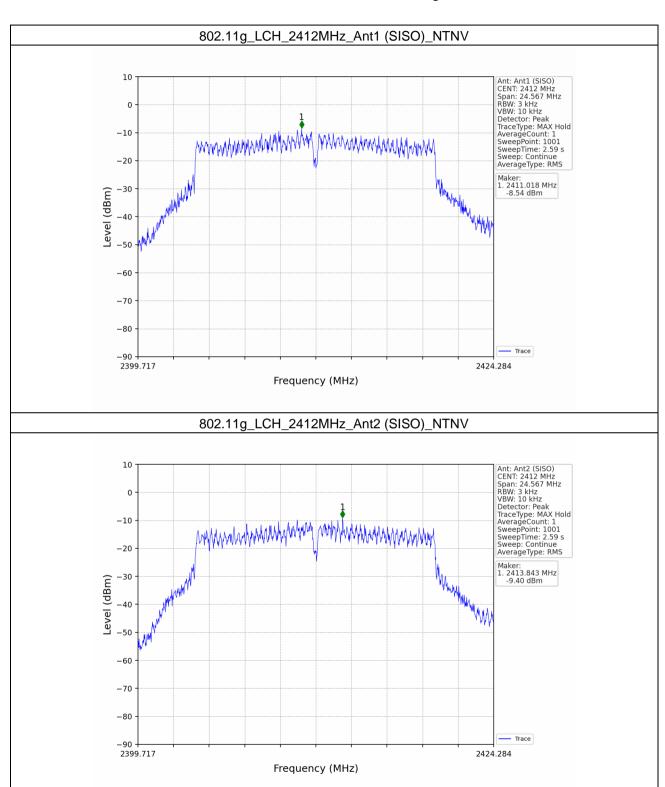
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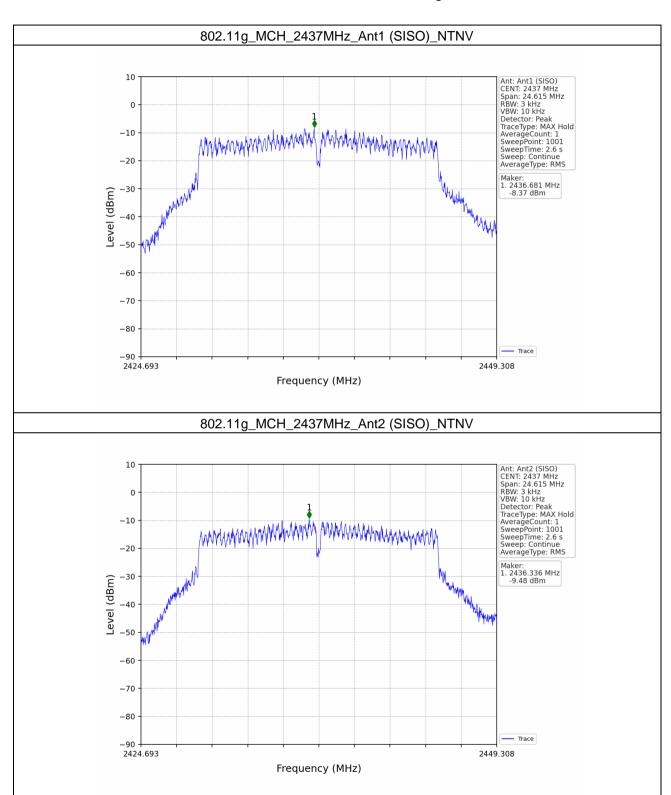
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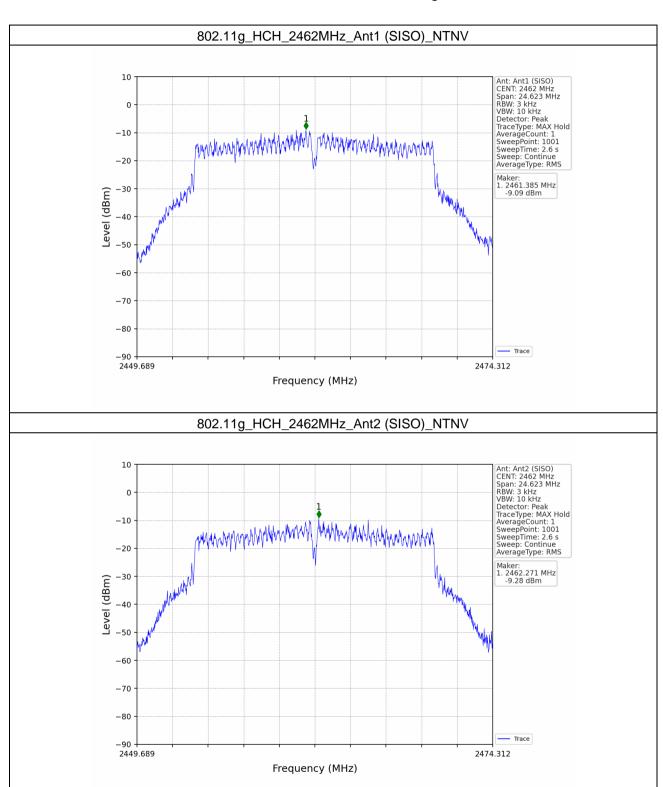
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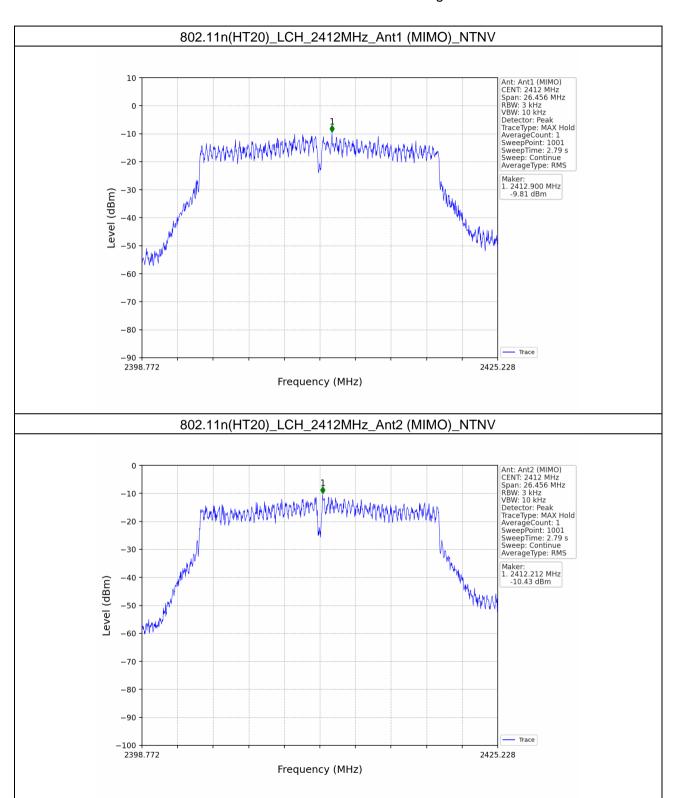
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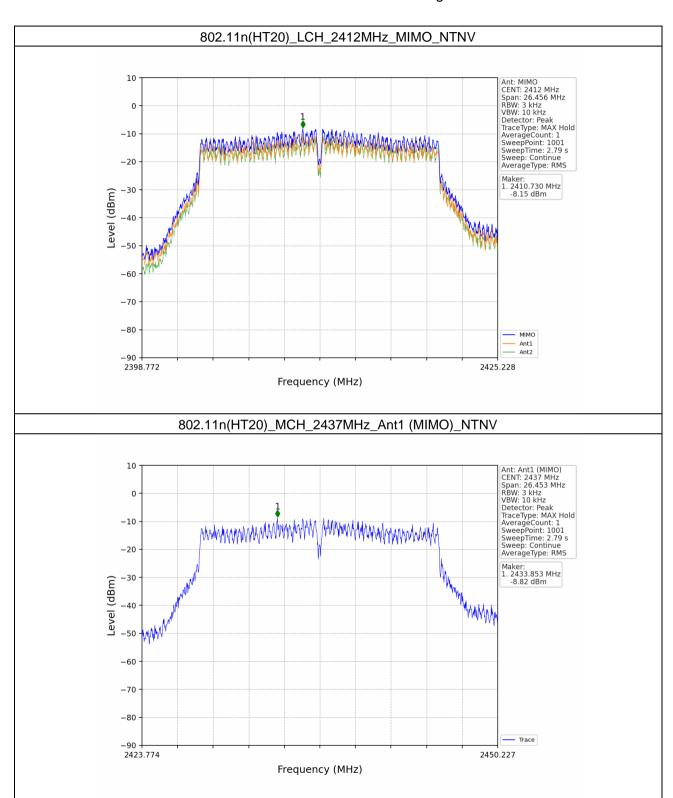
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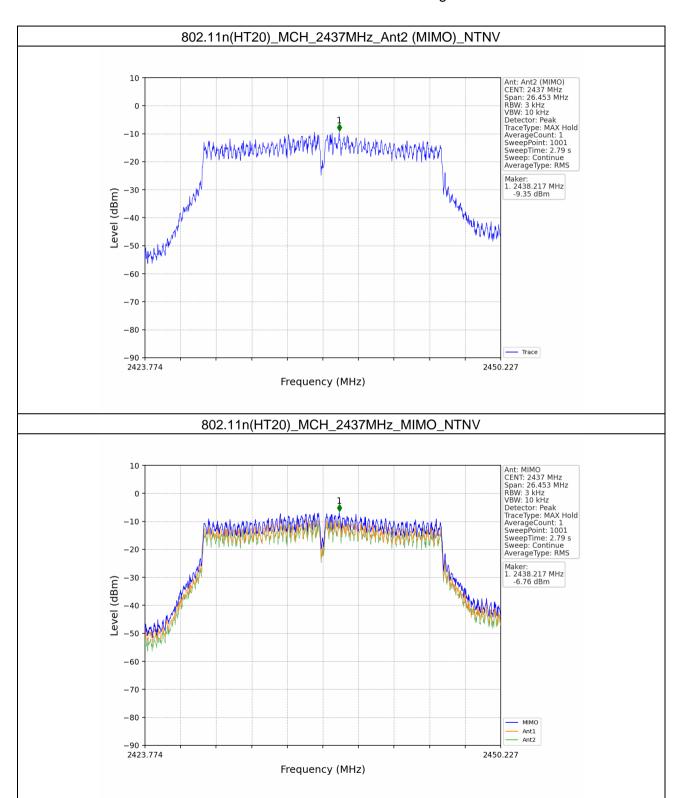
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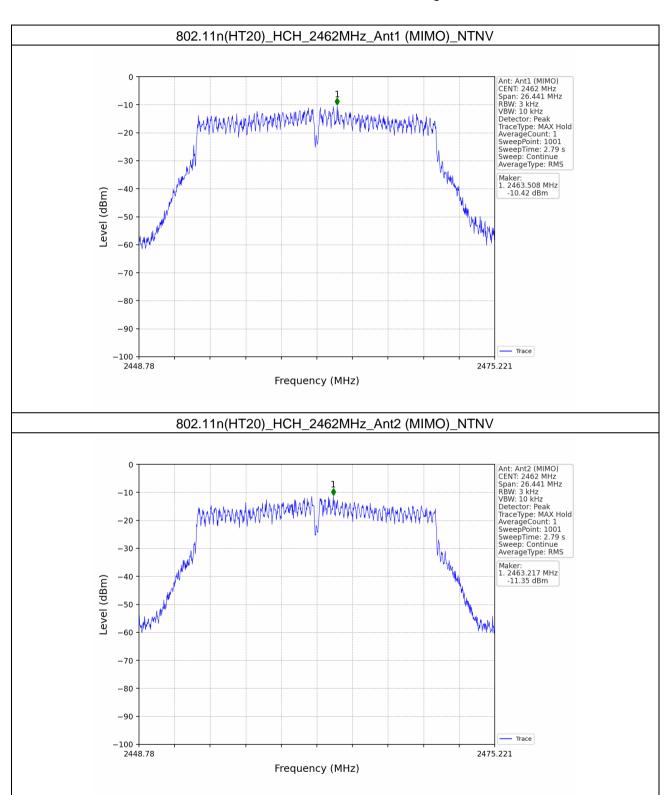
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