

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240800300603

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TEST REPORT

Application No.: SZCR2408003006AT

Applicant: JEM ACCESSORIES INC.

Address of Applicant: 32 Brunswick Avenue Edison New Jersey 08817 United States

Manufacturer: JEM ACCESSORIES INC.

32 Brunswick Avenue Edison New Jersey 08817 United States Address of Manufacturer:

Factory: Dongguan Yuaochen Technology Co., Ltd.

Address of Factory: 2/F, Leihan Industrial Park, Dalingshan Town, Dongguan

Equipment Under Test (EUT):

EUT Name: Wireless Carplay & Android Auto adapter

Model No.: MBA2-1014-BLK FCC ID: 2AHAS-MBA21014

47 CFR Part 15, Subpart E 15.407 Standard(s):

2024-08-02 **Date of Receipt:**

2024-08-21 to 2024-09-01 Date of Test:

2024-09-06 Date of Issue:

Pass* Test Result:

Keny Xu **EMC Laboratory Manager**

Ceny. Ku



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



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-09-06		Original			

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



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2 **Test Summary**

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15,	N/A	47 CFR Part 15, Subpart C 15.203	Pass		
Transmission in the Absence of Data	Subpart E 15.407	N/A	47 CFR Part 15, Subpart E 15.407 (c)	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 & Subpart E 15.407 b(9)	Pass		
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass		
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass		
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass		
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass		
Duty Cycle		KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass		
99% Bandwidth		KDB 789033 II D	N/A	Pass		
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass		
Minimum 6 dB bandwidth (5.725- 5.85 GHz band)		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass		
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass		
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass		



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General Information

4.1 Details of E.U.T.

Power supply:	DC 5V from adapter input AC 120V/60Hz
Cable(s):	USB cable: 50cm unshielded
Operation Frequency/Number of channels (20MHz):	5180-5240MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	5190-5230MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Modulation Type:	OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing:	802.11a/n20: 20MHz; 802.11n40: 40MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	-5.88dBi

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.



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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A2244	REF. No.SEA05D14G

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Maximum Conducted output power	± 0.75dB
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz);± 4.8dB (18- 40GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Peak Power spectrum density	± 2.84dB
Frequency Stability	± 7.25 x 10-8

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/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	
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19	
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13	

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Radiated 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	2024-08-14	2025-08-13	
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	2024-07-06	2025-07-05	



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Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
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	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
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	2024-07-06	2025-07-05

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18



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General used equipmen	t				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -5.88 dBi

Antenna location: Refer to internal photo.



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details: SDR chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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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 & Subpart E 15.407 b(9) Test Requirement

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Execution by of amicoion/MHT)	Conducted	limit(dB μ V)
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.		

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

1.1.2 103t W	7.1.2 Test wode Description				
Pre-scan / Final test	Mode Code	Description			
Final test	03	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.			
Pre-scan	06	TX mode (U-NII-3) _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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20, Only the data of worst case is recorded in the report.			



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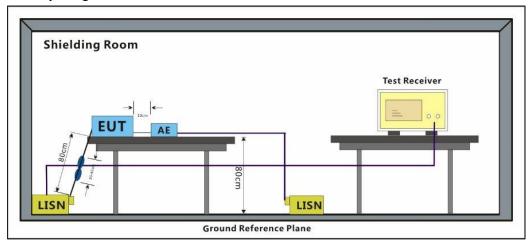
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7.1.3 Test Setup Diagram



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 $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ 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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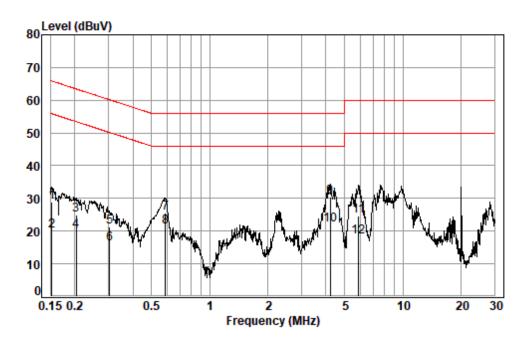


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Test Mode: 03; Line: Live line



: Shielding Room

Condition: Line Job No. : 03006AT

Test mode: 03

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.02	9.88	19.15	29.05	65.87	-36.82	OP
2	0.1524	0.02	9.88	10.33	20.23			Average
3	0.2040	0.02	9.93	15.14	25.09		-38.36	_
4	0.2040	0.02	9.93	10.14	20.09			Äverage
5	0.3035	0.03	10.01	11.23	21.27	60.15	-38.88	QP
6	0.3035	0.03	10.01	6.07	16.11	50.15	-34.04	Average
7	0.5885	0.04	9.98	15.67	25.69	56.00	-30.31	QP
8	0.5885	0.04	9.98	11.34	21.36	46.00	-24.64	Average
9 *	4.2242	0.08	10.02	20.23	30.33	56.00	-25.67	QP
10 *	4.2242	0.08	10.02	11.94	22.04	46.00	-23.96	Average
11	5.8980	0.10	10.06	14.61	24.77	60.00	-35.23	QP
12	5.8980	0.10	10.06	7.99	18.15	50.00	-31.85	Average



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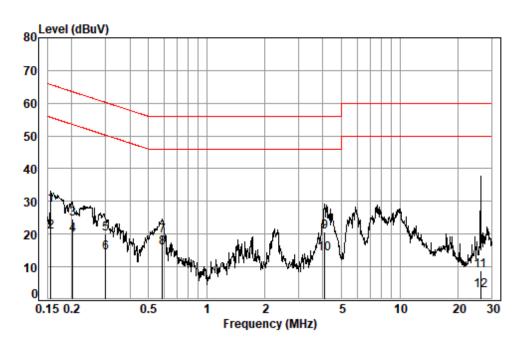


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Test Mode: 03; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 03006AT

Test mode: 03

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.02	9.89	19 07	28.88	CE CO	26 91	OD
1				18.97			-36.81	•
2	0.1557	0.02	9.89	10.76	20.67	55.69	-35.02	Average
3	0.2029	0.02	9.92	14.85	24.79	63.49	-38.70	QP
4	0.2029	0.02	9.92	9.83	19.77	53.49	-33.72	Average
5	0.3003	0.03	9.91	10.01	19.95	60.24	-40.29	QP
6	0.3003	0.03	9.91	4.48	14.42	50.24	-35.82	Average
7	0.5916	0.04	9.97	9.52	19.53	56.00	-36.47	QP
8 *	0.5916	0.04	9.97	5.69	15.70	46.00	-30.30	Average
9 *	4.0920	0.08	9.99	10.60	20.67	56.00	-35.33	QP
10	4.0920	0.08	9.99	4.04	14.11	46.00	-31.89	Average
11	26.2782	0.32	10.40	-1.93	8.79	60.00	-51.21	QP
12	26.2782	0.32	10.40	-8.08	2.64	50.00	-47.36	Average



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7.2 Maximum Conducted output power

47 CFR Part 15, Subpart E 15.407 (a) Test Requirement

Test Method: KDB 789033 D02 II E

Limit:

Frequen	cy band(MHz)	Limit		
E1E0	E0E0	≤1W(30dBm) for master device		
5150-	5250	≤250mW(24dBm) for client device		
5250-	5350	≤250mW(24dBm) or 11dBm+10logB*		
5470-	5725	≤250mW(24dBm) or 11dBm+10logB*		
5725-	5850	≤1W(30dBm)		
Remark:	* Where B is the	e 26dB emission bandwidth in MHz.		
	The maximum conducted output power must be measured over any intervol continuous transmission using instrumentation calibrated in terms of a rms-equivalent voltage.			

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 49.6 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-3) _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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20, Only the data of worst case is recorded in the report.



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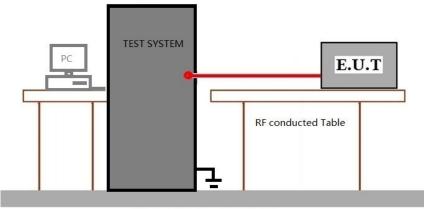


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7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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7.3 Radiated Emissions (Below 1GHz)

47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b) Test Requirement

KDB 789033 D02 II G Test Method:

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: 20.2 °C Atmospheric Pressure: 1020 mbar Humidity: 45.2 % RH

7.3.2 Test Mode Description

7.0.2 1.001.1	7.3.2 Test mode Description				
Pre-scan / Final test	Mode Code	Description			
Final test	03	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.			
Pre-scan	06	TX mode (U-NII-3) _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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20, Only the data of worst case is recorded in the report.			



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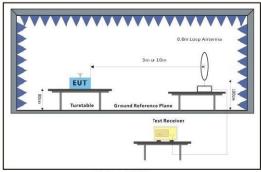


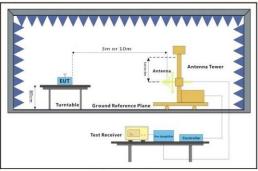
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7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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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 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. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
- 3. 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.
- 4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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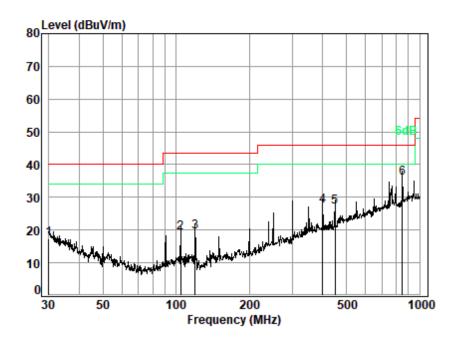


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03006AT

Test Mode: 03

		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	30.00	21.20	0.64	2/./9	23.43	1/.48	40.00	-22.52	QР
2	104.17	12.22	1.21	27.57	33.21	19.07	43.50	-24.43	QP
3	119.86	11.11	1.30	27.51	34.66	19.56	43.50	-23.94	QP
4	400.43	20.60	2.55	27.16	31.37	27.36	46.00	-18.64	QP
5	449.56	21.17	2.72	27.36	30.61	27.14	46.00	-18.86	QP
6 g	851.04	26.84	3.96	27.12	32.35	36.03	46.00	-9.97	OP



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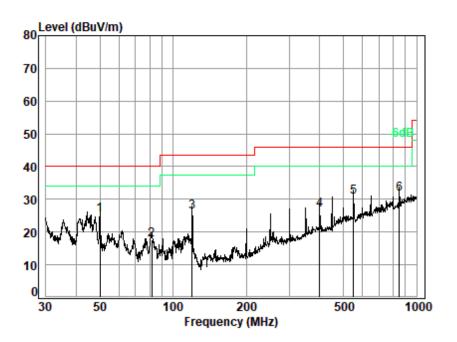


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No. : 03006AT

Test Mode: 03

1

3 4 5

	Freq	Ant Factor		Preamp Factor					Remark	
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
	50.06	12.75	0.83	27.73	39.41	25.26	40.00	-14.74	QP	
	81.78	10.60	1.07	27.64	33.66	17.69	40.00	-22.31	QP	
	119.86	11.11	1.30	27.51	41.15	26.05	43.50	-17.45	QP	
	400.43	20.60	2.55	27.16	30.83	26.82	46.00	-19.18	QP	
	550.95	23.78	3.05	27.77	31.80	30.86	46.00	-15.14	QP	
q	851.04	26.84	3.96	27.12	27.94	31.62	46.00	-14.38	QΡ	



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7.4 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3

- *(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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



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7.4.1 E.U.T. Operation

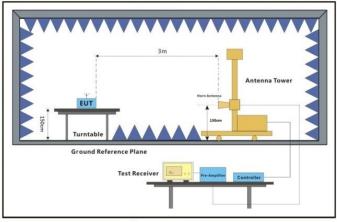
Operating Environment:

Temperature: 22.3 °C Atmospheric Pressure: 1020 mbar Humidity: 52.6 % RH

7.4.2 Test Mode Description

71112 Took Inidae Decemption									
Pre-scan / Final test	Mode Code	Description							
Final test	03	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.							
Final test	06	TX mode (U-NII-3) _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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20, Only the data of worst case is recorded in the report.							

7.4.3 Test Setup Diagram



Above 1GHz



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7.4.4 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 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.



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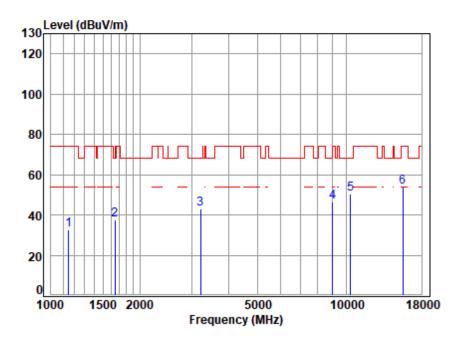


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03006AT : 5180 TX RSE Mode : 5G WIFI 11A 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	1148.82	3.49	23.90	38.33	43.71	32.77	74.00	-41.23	peak
2	1648.78	4.26	26.31	38.41	45.60	37.76	68.20	-30.44	peak
3	3214.62	5.87	32.66	36.13	40.75	43.15	68.20	-25.05	peak
4	8995.12	11.91	36.91	37.61	35.15	46.36	68.20	-21.84	peak
5	10360.00	12.73	37.10	37.54	38.31	50.60	68.20	-17.60	peak
6	15540.00	14.23	41.10	37.23	35.68	53.78	74.00	-20.22	peak



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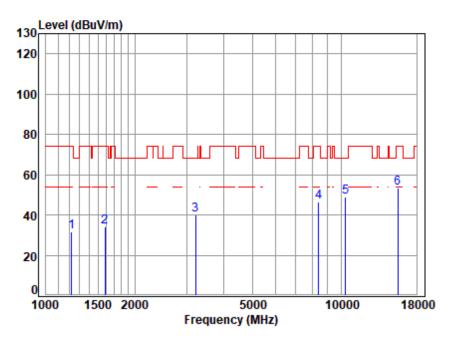


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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT Mode : 5180 TX RSE

10360.00

15540.00

: 5G WIFI 11A

12.73

37.10 37.54

14.23 41.10 37.23

Note

1

2

3

4

5

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Freq Level Level Line MHz dBuV dBuV/m dBuV/m dB dB/m dB dB 41.62 31.59 74.00 -42.41 peak 1220.71 3.62 24.69 38.34 1587.98 4.18 26.85 38.40 41.26 33.89 74.00 -40.11 peak 3214.62 5.87 32.66 36.13 37.88 40.28 68.20 -27.92 peak 8392.29 10.84 36.70 36.99 35.90 46.45 74.00 -27.55 peak

36.52

35.27



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48.81 68.20 -19.39 peak

53.37 74.00 -20.63 peak

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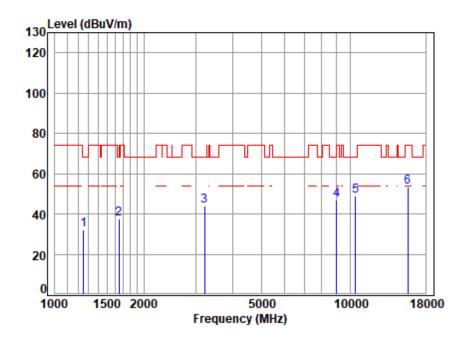


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5220 TX RSE Mode : 5G WIFI 11A 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	1249.27	3.67	25.09	38.35	41.96	32.37	68.20	-35.83	peak
2	1648.78	4.26	26.31	38.41	45.44	37.60	68.20	-30.60	peak
3	3214.62	5.87	32.66	36.13	41.73	44.13	68.20	-24.07	peak
4	8995.12	11.91	36.91	37.61	35.97	47.18	68.20	-21.02	peak
5	10440.00	12.75	37.18	37.58	36.53	48.88	68.20	-19.32	peak
6	15660.00	14.27	41.16	37.28	35.35	53.50	74.00	-20.50	peak



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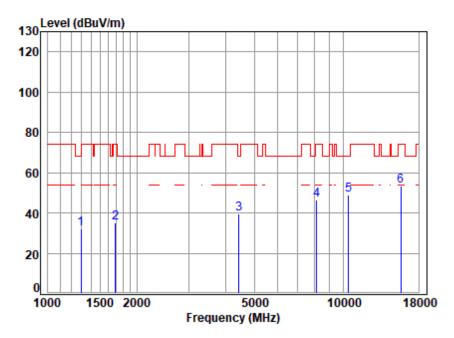


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 03006AT : 5220 TX RSE Mode

: 5G WIFI 11A Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	d Bu V/m	dB	
1	1297.10	3.75	24.82	38.36	42.16	32.37	68.20	-35.83	peak
2	1692.23	4.32	26.22	38.41	42.93	35.06	74.00	-38.94	peak
3	4443.45	7.09	34.28	35.77	34.10	39.70	68.20	-28.50	peak
4	8129.66	10.35	36.50	36.70	36.52	46.67	74.00	-27.33	peak
5	10440.00	12.75	37.18	37.58	36.79	49.14	68.20	-19.06	peak
6	15660.00	14.27	41.16	37.28	35.21	53.36	74.00	-20.64	peak



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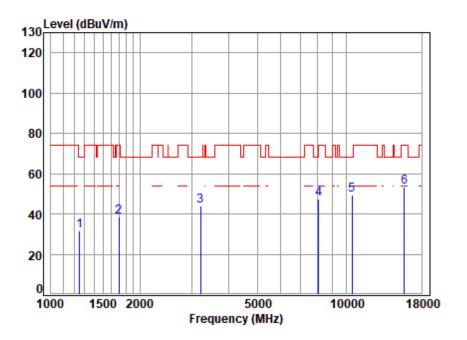


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5240 TX RSE Mode : 5G WIFI 11A 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	1240 27	2 67	25 00	20 25	11 11	21 02	69.20	26 20	noole
1	1249.27	3.67	25.09	30.33	41.41	31.02	00.20	-30.30	peak
2	1702.04	4.33	26.22	38.42	46.29	38.42	74.00	-35.58	peak
3	3214.62	5.87	32.66	36.13	41.84	44.24	68.20	-23.96	peak
4	8059.48	10.21	36.42	36.63	37.63	47.63	74.00	-26.37	peak
5	10480.00	12.76	37.26	37.60	37.05	49.47	68.20	-18.73	peak
6	15720.00	14.29	41.22	37.31	35.30	53.50	74.00	-20.50	peak



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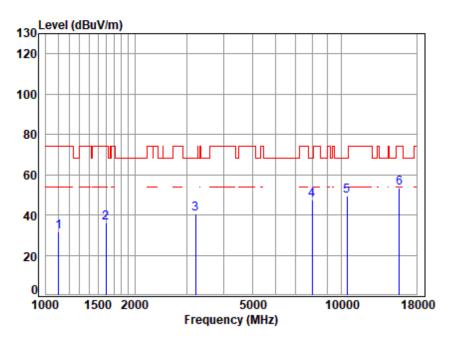


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT Mode : 5240 TX RSE

15720.00

: 5G WIFI 11A

14.29 41.22 37.31

Note

1

2

3

4

5

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Freq Level Level Line MHz dBuV dBuV/m dBuV/m dB dB/m dB dB 38.32 42.94 31.73 74.00 -42.27 peak 1103.26 3.40 23.71 1597.18 4.20 26.81 38.40 43.41 36.02 74.00 -37.98 peak 3214.62 5.87 32.66 36.13 38.33 40.73 68.20 -27.47 peak 37.32 47.26 68.20 -20.94 peak 7989.89 10.09 36.40 36.55 10480.00 12.76 37.26 37.60 37.21 49.63 68.20 -18.57 peak

35.24



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53.44 74.00 -20.56 peak

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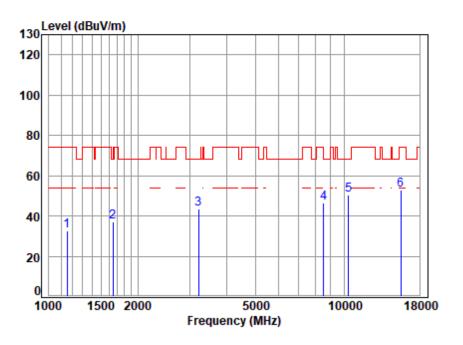


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5180 TX RSE Mode : 5G 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	1152.15	3.49	23.92	38.33	43.64	32.72	74.00	-41.28	peak
2	1648.78	4.26	26.31	38.41	45.13	37.29	68.20	-30.91	peak
3	3214.62	5.87	32.66	36.13	41.00	43.40	68.20	-24.80	peak
4	8514.46	11.06	36.73	37.12	35.55	46.22	68.20	-21.98	peak
5	10360.00	12.73	37.10	37.54	38.26	50.55	68.20	-17.65	peak
6	15540.00	14.23	41.10	37.23	34.92	53.02	74.00	-20.98	peak



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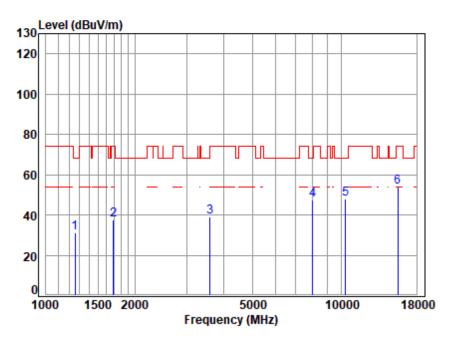


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT : 5180 TX RSE Mode

: 5G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1256.51	3.68	25.06	38.35	40.99	31.38	68.20	-36.82	peak
2	1692.23	4.32	26.22	38.41	45.63	37.76	74.00	-36.24	peak
3	3598.20	6.34	32.08	36.11	36.94	39.25	68.20	-28.95	peak
4	8013.02	10.13	36.40	36.57	37.73	47.69	68.20	-20.51	peak
5	10360.00	12.73	37.10	37.54	35.82	48.11	68.20	-20.09	peak
6	15540.00	14.23	41.10	37.23	35.63	53.73	74.00	-20.27	peak



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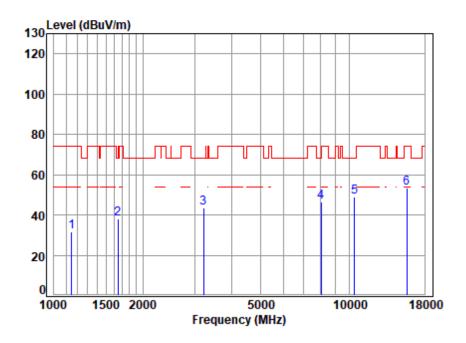


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5220 TX RSE Mode : 5G 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	
	4440.00	2.40	22.00	20.22	40.60	24 60	74.00	40.00	
1	1148.82	3.49	23.90	38.33	42.62	31.68	74.00	-42.32	peak
2	1648.78	4.26	26.31	38.41	45.90	38.06	68.20	-30.14	peak
3	3214.62	5.87	32.66	36.13	41.18	43.58	68.20	-24.62	peak
4	8036.21	10.17	36.40	36.60	36.73	46.70	74.00	-27.30	peak
5	10440.00	12.75	37.18	37.58	36.67	49.02	68.20	-19.18	peak
6	15660.00	14.27	41.16	37.28	35.41	53.56	74.00	-20.44	peak



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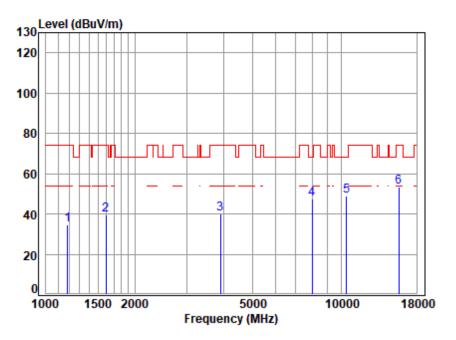


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5220 TX RSE Mode : 5G 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	1182.51	3.55	24.23	38.34	45.13	34.57	74.00	-39.43	peak
2	1597.18	4.20	26.81	38.40	46.92	39.53	74.00	-34.47	peak
3	3901.52	6.68	33.79	36.10	35.65	40.02	74.00	-33.98	peak
4	7989.89	10.09	36.40	36.55	37.41	47.35	68.20	-20.85	peak
5	10440.00	12.75	37.18	37.58	36.59	48.94	68.20	-19.26	peak
6	15660.00	14.27	41.16	37.28	35.26	53.41	74.00	-20.59	peak



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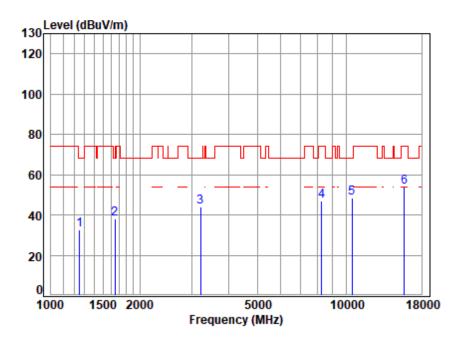


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5240 TX RSE Mode : 5G 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	1249.27	3.67	25.09	38.35	42.08	32.49	68.20	-35.71	peak
2	1648.78	4.26	26.31	38.41	45.68	37.84	68.20	-30.36	peak
3	3214.62	5.87	32.66	36.13	41.62	44.02	68.20	-24.18	peak
4	8248.01	10.57	36.70	36.83	36.52	46.96	74.00	-27.04	peak
5	10480.00	12.76	37.26	37.60	35.86	48.28	68.20	-19.92	peak
6	15720.00	14.29	41.22	37.31	35.60	53.80	74.00	-20.20	peak



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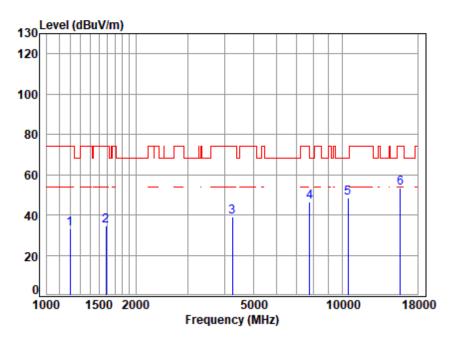


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT : 5240 TX RSE Mode

: 5G 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	1199.73	3.58	24.40	38.34	43.26	32.90	74.00	-41.10	peak
2	1587.98	4.18	26.85	38.40	41.86	34.49	74.00	-39.51	peak
3	4254.92	6.96	33.82	35.90	34.39	39.27	74.00	-34.73	peak
4	7762.26	9.83	36.25	36.34	36.51	46.25	68.20	-21.95	peak
5	10480.00	12.76	37.26	37.60	36.20	48.62	68.20	-19.58	peak
6	15720.00	14.29	41.22	37.31	35.40	53.60	74.00	-20.40	peak



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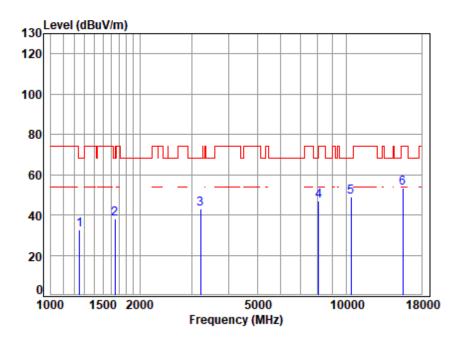


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5190 TX RSE Mode : 5G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.27	3.67	25.09	38.35	42.05	32.46	68.20	-35.74	peak
2	1648.78	4.26	26.31	38.41	45.77	37.93	68.20	-30.27	peak
3	3214.62	5.87	32.66	36.13	40.82	43.22	68.20	-24.98	peak
4	8059.48	10.21	36.42	36.63	36.78	46.78	74.00	-27.22	peak
5	10380.00	12.74	37.10	37.55	36.52	48.81	68.20	-19.39	peak
6	15570.00	14.24	41.10	37.25	35.51	53.60	74.00	-20.40	peak



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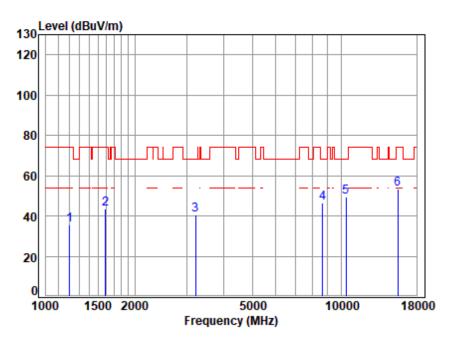


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT : 5190 TX RSE

Mode : 5G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.20	3.59	24.45	38.34	45.93	35.63	74.00	-38.37	peak
2	1592.57	4.19	26.83	38.40	51.00	43.62	74.00	-30.38	peak
3	3214.62	5.87	32.66	36.13	38.09	40.49	68.20	-27.71	peak
4	8663.40	11.33	36.90	37.27	35.51	46.47	68.20	-21.73	peak
5	10380.00	12.74	37.10	37.55	36.96	49.25	68.20	-18.95	peak
6	15570.00	14.24	41.10	37.25	35.20	53.29	74.00	-20.71	peak



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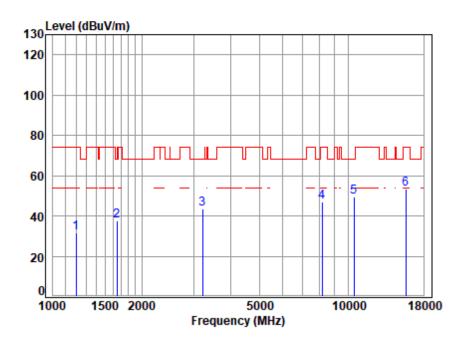


SZEMC-TRF-01 Rev. A/1

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5230 TX RSE Mode : 5G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.73	3.58	24.40	38.34	42.14	31.78	74.00	-42.22	peak
2	1648.78	4.26	26.31	38.41	45.19	37.35	68.20	-30.85	peak
3	3214.62	5.87	32.66	36.13	41.28	43.68	68.20	-24.52	peak
4	8153.20	10.39	36.51	36.73	36.87	47.04	74.00	-26.96	peak
5	10460.00	12.76	37.22	37.59	37.14	49.53	68.20	-18.67	peak
6	15690.00	14.28	41.19	37.30	35.12	53.29	74.00	-20.71	peak



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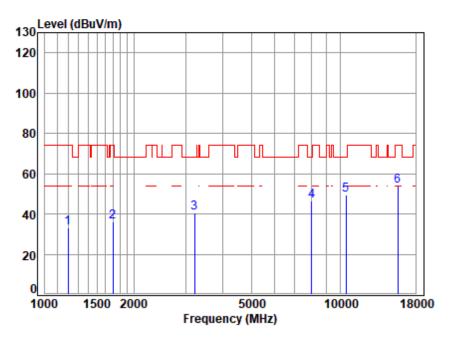


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5230 TX RSE Mode : 5G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1199.73	3.58	24.40	38.34	43.31	32.95	74.00	-41.05	peak
2	1697.13	4.33	26.21	38.41	43.75	35.88	74.00	-38.12	peak
3	3214.62	5.87	32.66	36.13	38.10	40.50	68.20	-27.70	peak
4	8013.02	10.13	36.40	36.57	36.44	46.40	68.20	-21.80	peak
5	10460.00	12.76	37.22	37.59	36.80	49.19	68.20	-19.01	peak
6	15690.00	14.28	41.19	37.30	35.55	53.72	74.00	-20.28	peak



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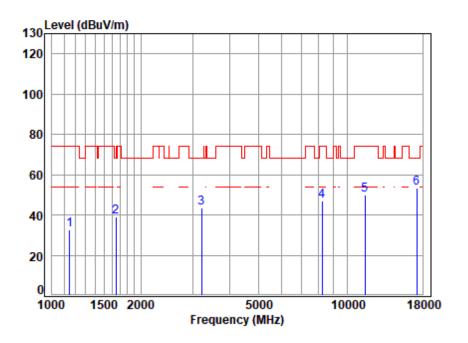


SZEMC-TRF-01 Rev. A/1

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5745 TX RSE Mode : 5G WIFI 11A 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	1148.82	3.49	23.90	38.33	43.71	32.77	74.00	-41.23	peak
2	1648.78	4.26	26.31	38.41	47.01	39.17	68.20	-29.03	peak
3	3214.62	5.87	32.66	36.13	41.13	43.53	68.20	-24.67	peak
4	8224.20	10.53	36.65	36.81	36.51	46.88	74.00	-27.12	peak
5	11490.00	13.00	37.79	37.69	36.86	49.96	74.00	-24.04	peak
6	17235.00	14.70	43.04	37.55	33.30	53.49	68.20	-14.71	peak



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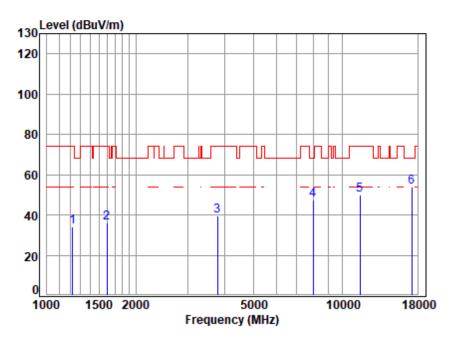


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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT Mode : 5745 TX RSE

: 5G WIFI 11A

Note

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Freq Level Level Line MHz dBuV dBuV/m dBuV/m dB dB/m dB dB 43.89 1 1220.71 3.62 24.69 38.34 33.86 74.00 -40.14 peak 2 1597.18 4.20 26.81 38.40 43.50 36.11 74.00 -37.89 peak 3 3790.36 6.56 32.50 36.11 36.47 39.42 74.00 -34.58 peak 4 7966.83 10.06 36.40 36.53 37.39 47.32 68.20 -20.88 peak 5 11490.00 13.00 37.79 37.69 36.61 49.71 74.00 -24.29 peak 17235.00 14.70 43.04 37.55 33.76 53.95 68.20 -14.25 peak



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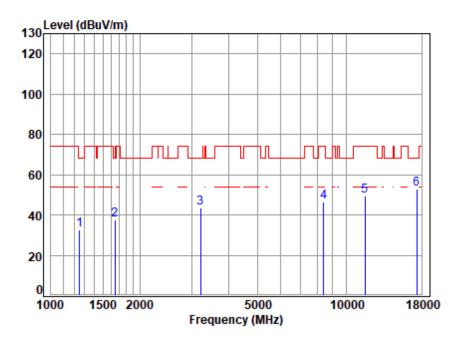


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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5785 TX RSE Mode : 5G WIFI 11A 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	
				20.25		20.50			
1	1249.27	3.67	25.09	38.35	42.18	32.59	68.20	-35.61	peak
2	1648.78	4.26	26.31	38.41	45.48	37.64	68.20	-30.56	peak
3	3214.62	5.87	32.66	36.13	40.87	43.27	68.20	-24.93	peak
4	8392.29	10.84	36.70	36.99	35.93	46.48	74.00	-27.52	peak
5	11570.00	13.01	37.73	37.67	36.47	49.54	74.00	-24.46	peak
6	17355.00	14.77	43.27	37.56	32.59	53.07	68.20	-15.13	peak



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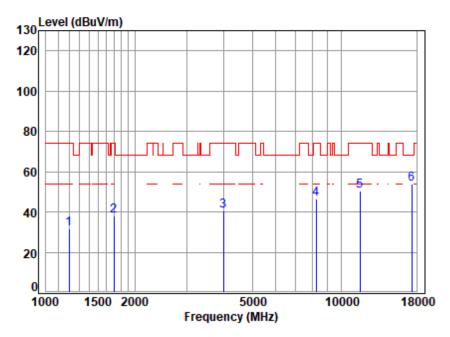


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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 03006AT : 5785 TX RSE Mode

: 5G WIFI 11A 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	
	4400 73	2 50	24.40	20.24	44 07	24 54	74.00	40.40	
1	1199.73	3.58	24.40	38.34	41.8/	31.51	74.00	-42.49	peak
2	1697.13	4.33	26.21	38.41	45.71	37.84	74.00	-36.16	peak
3	3992.78	6.77	33.07	36.10	36.64	40.38	74.00	-33.62	peak
4	8224.20	10.53	36.65	36.81	36.28	46.65	74.00	-27.35	peak
5	11570.00	13.01	37.73	37.67	37.14	50.21	74.00	-23.79	peak
6	17355.00	14.77	43.27	37.56	33.44	53.92	68.20	-14.28	peak



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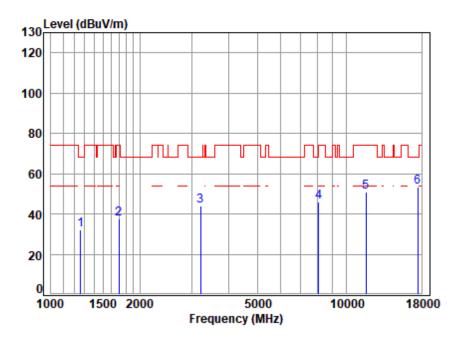


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Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5825 TX RSE Mode : 5G WIFI 11A 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	
	4050 45	2 60	25.04	20.25		24.04		26.06	
1	1260.15	3.69	25.04	38.35	41.56	31.94	68.20	-36.26	peak
2	1702.04	4.33	26.22	38.42	45.52	37.65	74.00	-36.35	peak
3	3214.62	5.87	32.66	36.13	41.78	44.18	68.20	-24.02	peak
4	8059.48	10.21	36.42	36.63	36.21	46.21	74.00	-27.79	peak
5	11650.00	13.03	37.80	37.65	37.65	50.83	74.00	-23.17	peak
6	17475.00	14.84	43.40	37.58	32.91	53.57	68.20	-14.63	peak



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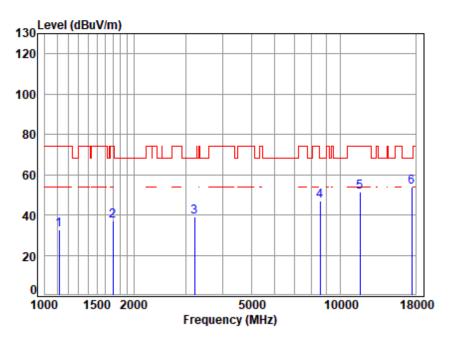


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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT Mode

: 5825 TX RSE : 5G WIFI 11A 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	
	4440 30	2 42	02.70	20.20	43.50	20.40	74.00	44 50	
1	1119.32	3.43	23./8	38.32	43.59	32.48	/4.00	-41.52	peak
2	1697.13	4.33	26.21	38.41	44.98	37.11	74.00	-36.89	peak
3	3214.62	5.87	32.66	36.13	36.73	39.13	68.20	-29.07	peak
4	8563.82	11.15	36.83	37.17	36.02	46.83	68.20	-21.37	peak
5	11650.00	13.03	37.80	37.65	37.99	51.17	74.00	-22.83	peak
6	17475.00	14.84	43.40	37.58	33.29	53.95	68.20	-14.25	peak



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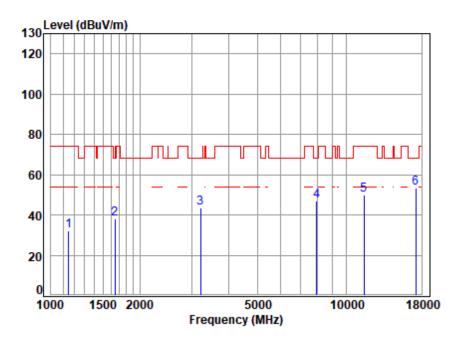


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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5745 TX RSE Mode : 5G 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	1148.82	3.49	23.90	38.33	43.27	32.33	74.00	-41.67	peak
2	1648.78	4.26	26.31	38.41	45.72	37.88	68.20	-30.32	peak
3	3214.62	5.87	32.66	36.13	41.25	43.65	68.20	-24.55	peak
4	7943.84	10.04	36.41	36.51	36.83	46.77	68.20	-21.43	peak
5	11490.00	13.00	37.79	37.69	36.82	49.92	74.00	-24.08	peak
6	17235.00	14.70	43.04	37.55	33.14	53.33	68.20	-14.87	peak



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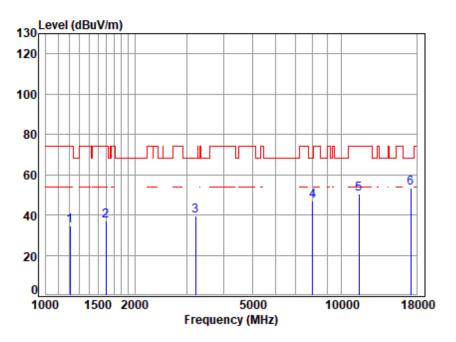


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Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5745 TX RSE Mode : 5G 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	
1206.68	3.59	24.50	38.34	44.88	34.63	74.00	-39.37	peak
1597.18	4.20	26.81	38.40	44.62	37.23	74.00	-36.77	peak
3214.62	5.87	32.66	36.13	37.04	39.44	68.20	-28.76	peak
8013.02	10.13	36.40	36.57	37.21	47.17	68.20	-21.03	peak
11490.00	13.00	37.79	37.69	37.29	50.39	74.00	-23.61	peak
17235.00	14.70	43.04	37.55	33.37	53.56	68.20	-14.64	peak
	MHz 1206.68 1597.18 3214.62 8013.02 11490.00	Freq Loss MHz dB 1206.68 3.59 1597.18 4.20 3214.62 5.87 8013.02 10.13 11490.00 13.00	Freq Loss Factor MHz dB dB/m 1206.68 3.59 24.50 1597.18 4.20 26.81 3214.62 5.87 32.66 8013.02 10.13 36.40 11490.00 13.00 37.79	Freq Loss Factor Factor MHz dB dB/m dB 1206.68 3.59 24.50 38.34 1597.18 4.20 26.81 38.40 3214.62 5.87 32.66 36.13 8013.02 10.13 36.40 36.57 11490.00 13.00 37.79 37.69	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1206.68 3.59 24.50 38.34 44.88 1597.18 4.20 26.81 38.40 44.62 3214.62 5.87 32.66 36.13 37.04 8013.02 10.13 36.40 36.57 37.21 11490.00 13.00 37.79 37.69 37.29	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1206.68 3.59 24.50 38.34 44.88 34.63 1597.18 4.20 26.81 38.40 44.62 37.23 3214.62 5.87 32.66 36.13 37.04 39.44 8013.02 10.13 36.40 36.57 37.21 47.17 11490.00 13.00 37.79 37.69 37.29 50.39	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1206.68 3.59 24.50 38.34 44.88 34.63 74.00 1597.18 4.20 26.81 38.40 44.62 37.23 74.00 3214.62 5.87 32.66 36.13 37.04 39.44 68.20 8013.02 10.13 36.40 36.57 37.21 47.17 68.20 11490.00 13.00 37.79 37.69 37.29 50.39 74.00	Freq Loss Factor Factor Level Level Line Limit



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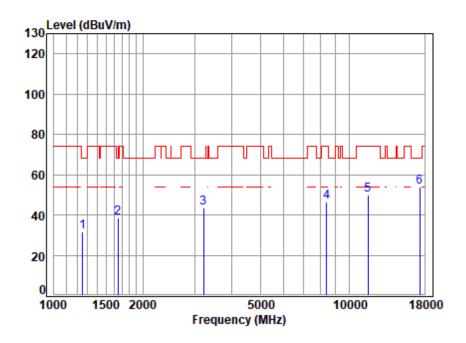


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5785 TX RSE Mode : 5G 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	
				20.25		24 25		26.24	
1	1249.27	3.6/	25.09	38.35	41.45	31.86	68.20	-36.34	peak
2	1648.78	4.26	26.31	38.41	46.23	38.39	68.20	-29.81	peak
3	3214.62	5.87	32.66	36.13	40.87	43.27	68.20	-24.93	peak
4	8392.29	10.84	36.70	36.99	35.86	46.41	74.00	-27.59	peak
5	11570.00	13.01	37.73	37.67	36.90	49.97	74.00	-24.03	peak
6	17355.00	14.77	43.27	37.56	33.46	53.94	68.20	-14.26	peak



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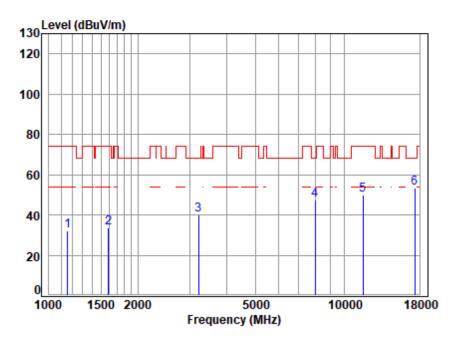


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL Job No : 03006AT : 5785 TX RSE Mode

: 5G 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	1158.83	3.51	23.99	38.33	42.82	31.99	74.00	-42.01	peak
2	1592.57	4.19	26.83	38.40	41.11	33.73	74.00	-40.27	peak
3	3214.62	5.87	32.66	36.13	37.56	39.96	68.20	-28.24	peak
4	7989.89	10.09	36.40	36.55	37.30	47.24	68.20	-20.96	peak
5	11570.00	13.01	37.73	37.67	36.67	49.74	74.00	-24.26	peak
6	17355.00	14.77	43.27	37.56	32.66	53.14	68.20	-15.06	peak



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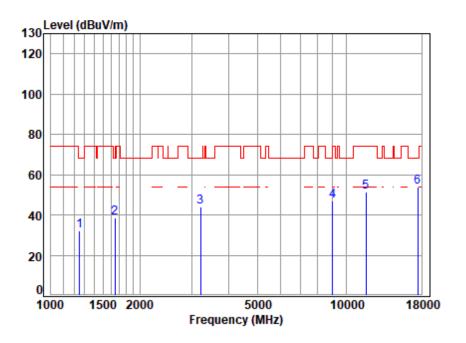


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5825 TX RSE Mode : 5G WIFI 11N20 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						JD: 3//	JD: 3//		
	MHz	dB	ab/m	dB	abuv	abuv/m	abuv/m	dB	
1	1249.27	3.67	25.09	38.35	41.59	32.00	68.20	-36.20	peak
2	1648.78	4.26	26.31	38.41	46.34	38.50	68.20	-29.70	peak
3	3214.62	5.87	32.66	36.13	41.78	44.18	68.20	-24.02	peak
4	8995.12	11.91	36.91	37.61	35.51	46.72	68.20	-21.48	peak
5	11650.00	13.03	37.80	37.65	38.00	51.18	74.00	-22.82	peak
6	17475.00	14.84	43.40	37.58	33.23	53.89	68.20	-14.31	peak



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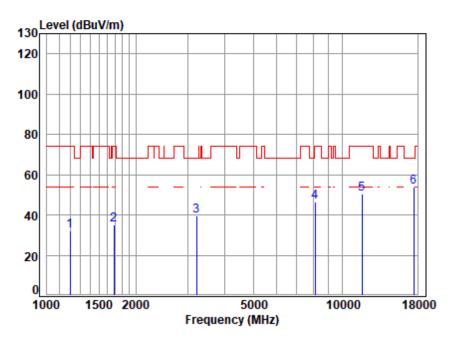


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT : 5825 TX RSE Mode

: 5G 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	1199.73	3.58	24.40	38.34	42.45	32.09	74.00	-41.91	peak
2	1687.35	4.31	26.23	38.41	42.74	34.87	74.00	-39.13	peak
3	3214.62	5.87	32.66	36.13	37.17	39.57	68.20	-28.63	peak
4	8106.20	10.30	36.50	36.68	36.30	46.42	74.00	-27.58	peak
5	11650.00	13.03	37.80	37.65	37.36	50.54	74.00	-23.46	peak
6	17475.00	14.84	43.40	37.58	33.23	53.89	68.20	-14.31	peak



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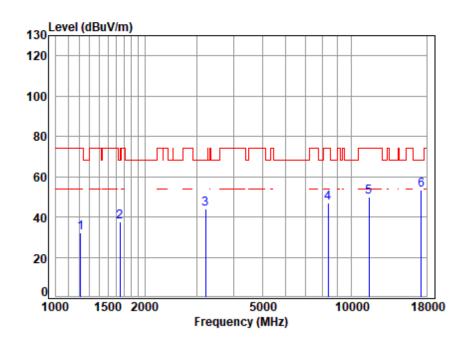


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5755 TX RSE Mode : 5G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
							74.00		
1	1213.68	3.61	24.59	38.34	42.45	32.31	/4.00	-41.69	peak
2	1648.78	4.26	26.31	38.41	45.40	37.56	68.20	-30.64	peak
3	3214.62	5.87	32.66	36.13	41.49	43.89	68.20	-24.31	peak
4	8368.07	10.80	36.70	36.96	36.21	46.75	74.00	-27.25	peak
5	11510.00	13.00	37.79	37.69	36.96	50.06	74.00	-23.94	peak
6	17265.00	14.72	43.07	37.55	33.28	53.52	68.20	-14.68	peak



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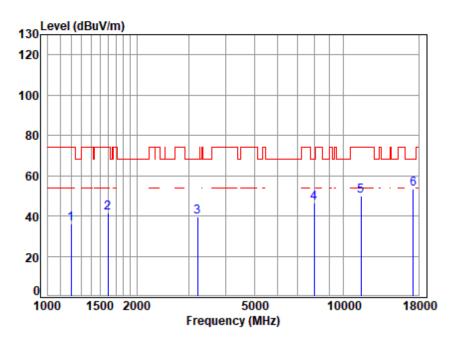


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT : 5755 TX RSE Mode

: 5G WIFI 11N40 Note

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1199.73	3.58	24.40	38.34	46.61	36.25	74.00	-37.75	peak
1597.18	4.20	26.81	38.40	48.75	41.36	74.00	-32.64	peak
3214.62	5.87	32.66	36.13	36.99	39.39	68.20	-28.81	peak
7966.83	10.06	36.40	36.53	36.40	46.33	68.20	-21.87	peak
11510.00	13.00	37.79	37.69	37.04	50.14	74.00	-23.86	peak
17265.00	14.72	43.07	37.55	33.35	53.59	68.20	-14.61	peak
	MHz 1199.73 1597.18 3214.62 7966.83 11510.00	Freq Loss MHz dB 1199.73 3.58 1597.18 4.20 3214.62 5.87 7966.83 10.06 11510.00 13.00	Freq Loss Factor MHz dB dB/m 1199.73 3.58 24.40 1597.18 4.20 26.81 3214.62 5.87 32.66 7966.83 10.06 36.40 11510.00 13.00 37.79	Freq Loss Factor Factor MHz dB dB/m dB 1199.73 3.58 24.40 38.34 1597.18 4.20 26.81 38.40 3214.62 5.87 32.66 36.13 7966.83 10.06 36.40 36.53 11510.00 13.00 37.79 37.69	MHz dB dB/m dB dBuV 1199.73 3.58 24.40 38.34 46.61 1597.18 4.20 26.81 38.40 48.75 3214.62 5.87 32.66 36.13 36.99 7966.83 10.06 36.40 36.53 36.40 11510.00 13.00 37.79 37.69 37.04	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1199.73 3.58 24.40 38.34 46.61 36.25 1597.18 4.20 26.81 38.40 48.75 41.36 3214.62 5.87 32.66 36.13 36.99 39.39 7966.83 10.06 36.40 36.53 36.40 46.33 11510.00 13.00 37.79 37.69 37.04 50.14	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1199.73 3.58 24.40 38.34 46.61 36.25 74.00 1597.18 4.20 26.81 38.40 48.75 41.36 74.00 3214.62 5.87 32.66 36.13 36.99 39.39 68.20 7966.83 10.06 36.40 36.53 36.40 46.33 68.20 11510.00 13.00 37.79 37.69 37.04 50.14 74.00	1199.73 3.58 24.40 38.34 46.61 36.25 74.00 -37.75 1597.18 4.20 26.81 38.40 48.75 41.36 74.00 -32.64 3214.62 5.87 32.66 36.13 36.99 39.39 68.20 -28.81 7966.83 10.06 36.40 36.53 36.40 46.33 68.20 -21.87



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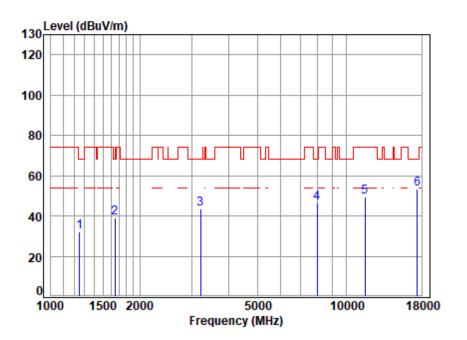


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Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT : 5795 TX RSE Mode : 5G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.27	3.67	25.09	38.35	41.83	32.24	68.20	-35.96	peak
2	1648.78	4.26	26.31	38.41	46.66	38.82	68.20	-29.38	peak
3	3214.62	5.87	32.66	36.13	41.27	43.67	68.20	-24.53	peak
4	7989.89	10.09	36.40	36.55	36.59	46.53	68.20	-21.67	peak
5	11590.00	13.01	37.71	37.67	36.46	49.51	74.00	-24.49	peak
6	17385.00	14.79	43.36	37.57	32.91	53.49	68.20	-14.71	peak



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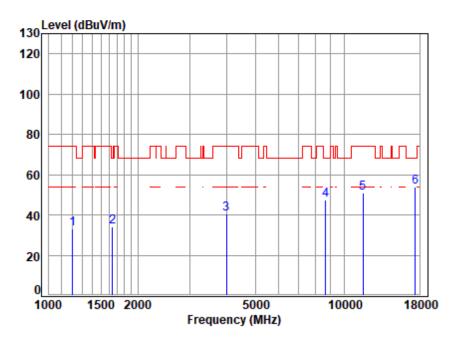


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Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5795 TX RSE Mode : 5G WIFI 11N40 Note

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4202.20	2 50	24.45	20.24	42.20	22.00	74.00	40.00	
1	1203.20	3.59	24.45	38.34	43.38	33.08	74.00	-40.92	peak
2	1644.02	4.26	26.36	38.41	41.73	33.94	68.20	-34.26	peak
3	3992.78	6.77	33.07	36.10	36.95	40.69	74.00	-33.31	peak
4	8638.40	11.29	36.90	37.24	36.54	47.49	68.20	-20.71	peak
5	11590.00	13.01	37.71	37.67	37.88	50.93	74.00	-23.07	peak
6	17385.00	14.79	43.36	37.57	33.48	54.06	68.20	-14.14	peak



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Report No.: SZCR240800300603

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7.5 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: KDB 789033 D02 II G

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

- *(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
- (i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar



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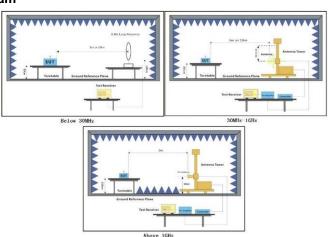
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7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-3) _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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram





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7.5.4 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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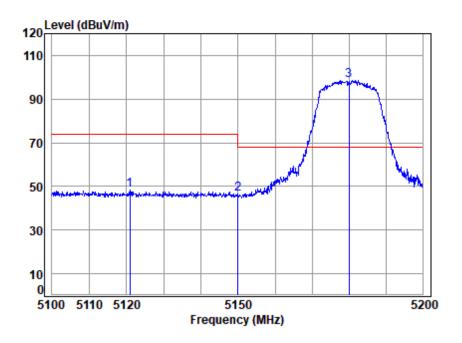


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT

: 5180 Band edge Mode : 5G WIFI 11A Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5120.84	7.53	33.96	35.33	42.15	48.31	74.00	-25.69	peak
2	5149.98	7.55	33.90	35.31	40.33	46.47	74.00	-27.53	peak
3	5180.00	7.57	33.96	35.29	92.44	98.68	68.20	30.48	peak



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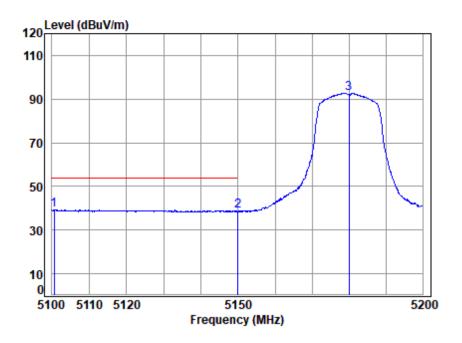


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03006AT

Mode : 5180 Band edge : 5G WIFI 11A Note

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	5100.59	7.51	34.00	35.34	33.13	39.30	54.00	-14.70	Average	
2	5149.98	7.55	33.90	35.31	32.53	38.67	54.00	-15.33	Average	
3	5180.00	7.57	33.96	35.29	86.51	92.75			Average	



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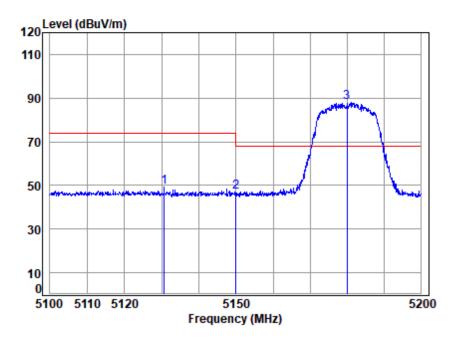


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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5180 Band edge Mode : 5G WIFI 11A Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5130.59	7.53	33.94	35.32	42.95	49.10	74.00	-24.90	Peak
2	5149.98	7.55	33.90	35.31	40.63	46.77	74.00	-27.23	Peak
3	5180.00	7.57	33.96	35.29	81.62	87.86	68.20	19.66	Peak



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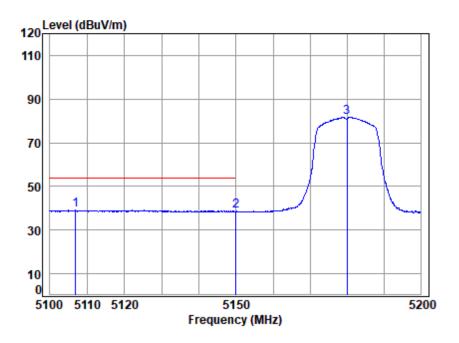


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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL : 03006AT

: 5180 Band edge Mode : 5G WIFI 11A Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5106.84	7.52	33.99	35.33	32.92	39.10	54.00	-14.90	Average
2	5149.98	7.55	33.90	35.31	32.43	38.57	54.00	-15.43	Average
3	5180.00	7.57	33.96	35.29	75.54	81.78			Average



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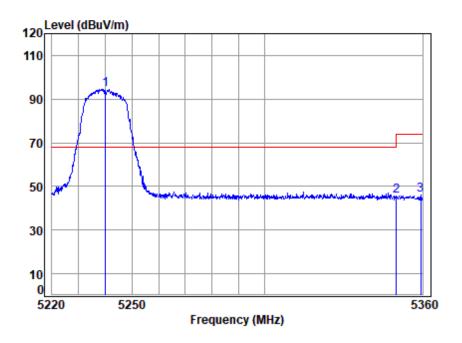


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT

Mode : 5240 Band edge : 5G WIFI 11A Note

Freq								Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5240.00	7.62	34.08	35.26	88.14	94.58	68.20	26.38	peak
5350.02	7.70	34.40	35.21	38.91	45.80	74.00	-28.20	peak
5359.29	7.71	34.44	35.20	38.96	45.91	74.00	-28.09	peak
	MHz 5240.00 5350.02	Freq Loss MHz dB 5240.00 7.62 5350.02 7.70	Freq Loss Factor MHz dB dB/m 5240.00 7.62 34.08 5350.02 7.70 34.40	Freq Loss Factor Factor MHz dB dB/m dB 5240.00 7.62 34.08 35.26 5350.02 7.70 34.40 35.21	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 5240.00 7.62 34.08 35.26 88.14 5350.02 7.70 34.40 35.21 38.91	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 5240.00 7.62 34.08 35.26 88.14 94.58 5350.02 7.70 34.40 35.21 38.91 45.80	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dBuV/m 5240.00 7.62 34.08 35.26 88.14 94.58 68.20 5350.02 7.70 34.40 35.21 38.91 45.80 74.00	Cable Ant Preamp Freq Loss Factor Factor Read Level Level Limit Limit Over Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB dB 5240.00 7.62 34.08 35.26 88.14 94.58 68.20 26.38 5350.02 7.70 34.40 35.21 38.91 45.80 74.00 -28.20 5359.29 7.71 34.44 35.20 38.96 45.91 74.00 -28.09



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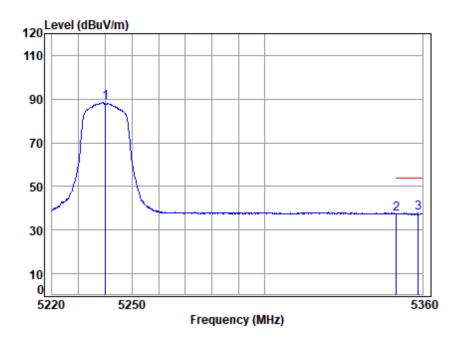


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03006AT

Mode : 5240 Band edge : 5G WIFI 11A Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.00	7.62	34.08	35.26	82.05	88.49			Average
2	5350.02	7.70	34.40	35.21	30.71	37.60	54.00	-16.40	Average
3	5358.30	7.71	34.43	35.20	30.81	37.75	54.00	-16.25	Average



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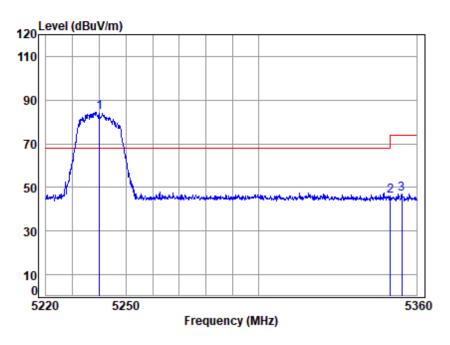


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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5240 Band edge Mode : 5G WIFI 11A Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.00	7.62	34.08	35.26	78.06	84.50	68.20	16.30	Peak
2	5350.02	7.70	34.40	35.21	39.42	46.31	74.00	-27.69	Peak
3	5354.33	7.71	34.42	35.21	40.28	47.20	74.00	-26.80	Peak



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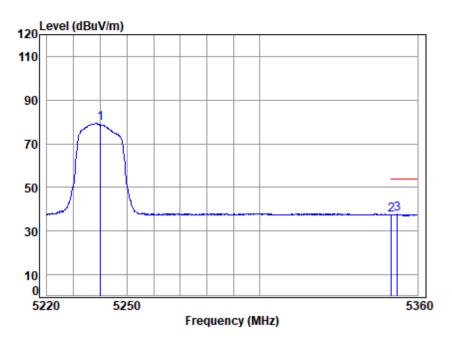


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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL : 03006AT

: 5240 Band edge Mode : 5G WIFI 11A Note

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5240.00	7.62	34.08	35.26	73.02	79.46			Average	
2	5350.02	7.70	34.40	35.21	30.51	37.40	54.00	-16.60	Average	
3	5352.35	7.71	34.41	35.21	30.78	37.69	54.00	-16.31	Average	



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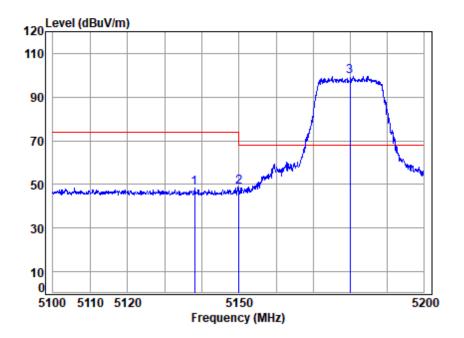


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT

: 5180 Band edge Mode : 5G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5137.97	7.54	33.92	35.32	42.41	48.55	74.00	-25.45	peak
2	5149.98	7.55	33.90	35.31	42.86	49.00	74.00	-25.00	peak
3	5180.00	7.57	33.96	35.29	93.25	99.49	68.20	31.29	peak



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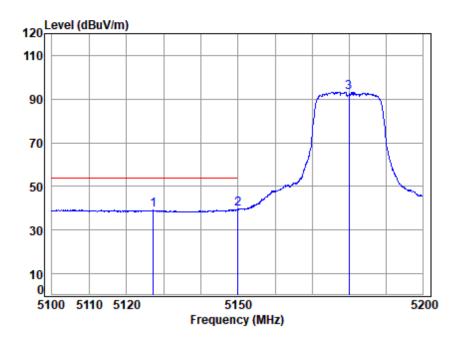


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT

: 5180 Band edge Mode : 5G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5127.11	7.53	33.95	35.32	33.15	39.31	54.00	-14.69	Average
2	5149.98	7.55	33.90	35.31	33.69	39.83	54.00	-14.17	Average
3	5180.00	7.57	33.96	35.29	87.00	93.24			Average



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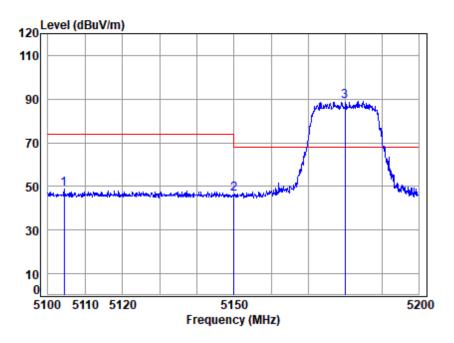


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5180 Band edge Mode : 5G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5104.36	7.51	33.99	35.33	42.79	48.96	74.00	-25.04	Peak
2	5149.98	7.55	33.90	35.31	40.63	46.77	74.00	-27.23	Peak
}	5180.00	7.57	33.96	35.29	82.68	88.92	68.20	20.72	Peak



1

3

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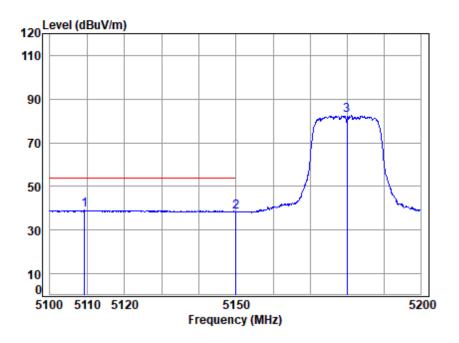


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5180 Band edge Mode : 5G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5109.22	7.52	33.98	35.33	32.85	39.02	54.00	-14.98	Average
2	5149.98	7.55	33.90	35.31	32.34	38.48	54.00	-15.52	Average
3	5180.00	7.57	33.96	35.29	76.18	82.42			Average



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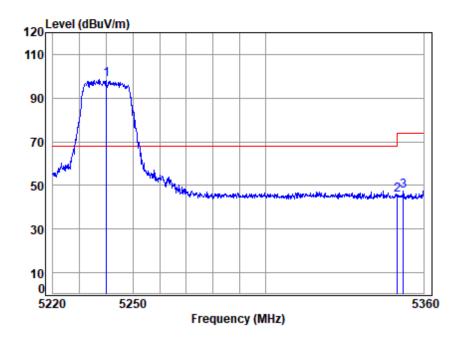


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03006AT

Mode : 5240 Band edge Note 5G WTFT 11N20

loce	. Ju w	TLT TTI	120							
		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	5240.00	7.62	34.08	35.26	92.07	98.51	68.20	30.31	peak	
2	5350.02	7.70	34.40	35.21	38.53	45.42	74.00	-28.58	peak	
3	5352.35	7.71	34.41	35.21	40.49	47.40	74.00	-26,60	peak	



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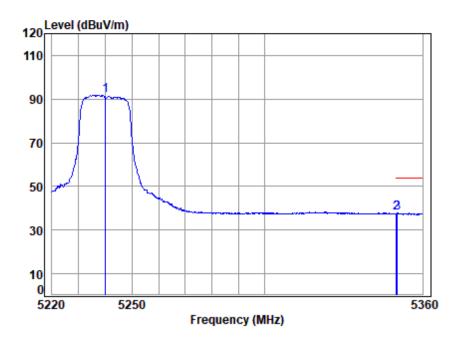


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT

: 5240 Band edge Mode : 5G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.00	7.62	34.08	35.26	85.38	91.82			Average
2	5350.02	7.70	34.40	35.21	30.75	37.64	54.00	-16.36	Average
3	5350.36	7.70	34.40	35.21	30.80	37.69	54.00	-16.31	Average



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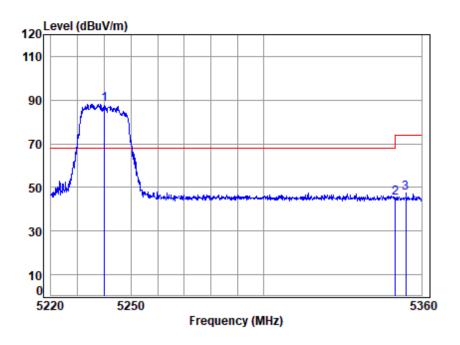


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5240 Band edge Mode : 5G WIFI 11N20 Note

Freq								Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5240.00	7.62	34.08	35.26	81.84	88.28	68.20	20.08	Peak
5350.02	7.70	34.40	35.21	38.09	44.98	74.00	-29.02	Peak
5354.05	7.71	34.42	35.21	40.52	47.44	74.00	-26.56	Peak
	MHz 5240.00 5350.02	Freq Loss MHz dB 5240.00 7.62 5350.02 7.70	Freq Loss Factor MHz dB dB/m 5240.00 7.62 34.08 5350.02 7.70 34.40	Freq Loss Factor Factor MHz dB dB/m dB 5240.00 7.62 34.08 35.26 5350.02 7.70 34.40 35.21	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 5240.00 7.62 34.08 35.26 81.84 5350.02 7.70 34.40 35.21 38.09	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 5240.00 7.62 34.08 35.26 81.84 88.28 5350.02 7.70 34.40 35.21 38.09 44.98	Freq Loss Factor Factor Level Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 5240.00 7.62 34.08 35.26 81.84 88.28 68.20 5350.02 7.70 34.40 35.21 38.09 44.98 74.00	Cable Ant Preamp Freq Loss Factor Factor Read Level Level Limit Limit Over Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB dB 5240.00 7.62 34.08 35.26 81.84 88.28 68.20 20.08 5350.02 7.70 34.40 35.21 38.09 44.98 74.00 -29.02 5354.05 7.71 34.42 35.21 40.52 47.44 74.00 -26.56



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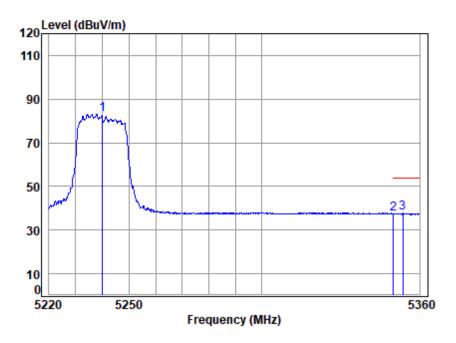


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5240 Band edge Mode : 5G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.00	7.62	34.08	35.26	76.57	83.01			Average
2	5350.02	7.70	34.40	35.21	30.54	37.43	54.00	-16.57	Average
3	5353.62	7.71	34.41	35.21	30.75	37.66	54.00	-16.34	Average



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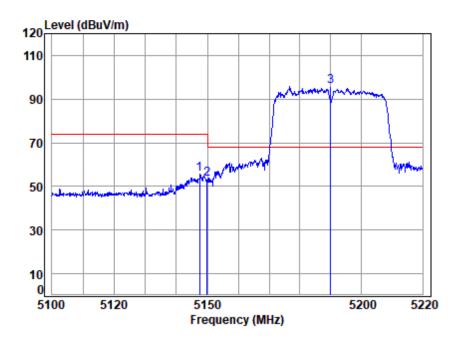


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03006AT

Mode : 5190 Band edge Note : 5G WTFT 11N40

JLE	. Ju w	111 111	140							
		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	5147.55	7.55	33.90	35.31	49.62	55.76	74.00	-18.24	peak	
2	5149.98	7.55	33.90	35.31	47.14	53.28	74.00	-20.72	peak	
3	5190.00	7.58	33.98	35.29	89.45	95.72	68.20	27.52	peak	



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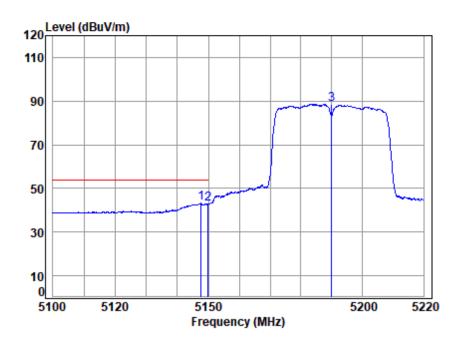


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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT

: 5190 Band edge Mode : 5G WIFI 11N40 Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.67	7.55	33.90	35.31	37.01	43.15	54.00	-10.85	Average
2	5149.98	7.55	33.90	35.31	36.78	42.92	54.00	-11.08	Average
3	5190.00	7.58	33.98	35.29	82.29	88.56			Average



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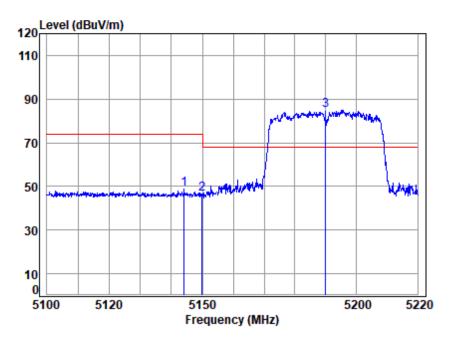


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5190 Band edge Mode : 5G WIFI 11N40 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.08	7.55	33.91	35.31	42.53	48.68	74.00	-25.32	Peak
2	5149.98	7.55	33.90	35.31	40.56	46.70	74.00	-27.30	Peak
3	5190.00	7.58	33.98	35.29	78.80	85.07	68.20	16.87	Peak



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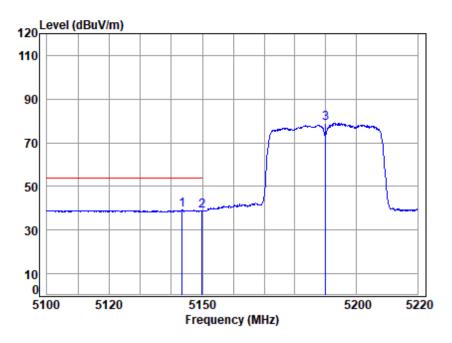


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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5190 Band edge Mode : 5G WIFI 11N40 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5143.48	7.54	33.91	35.31	32.99	39.13	54.00	-14.87	Average
2	5149.98	7.55	33.90	35.31	32.85	38.99	54.00	-15.01	Average
3	5190.00	7.58	33.98	35.29	72.62	78.89			Average



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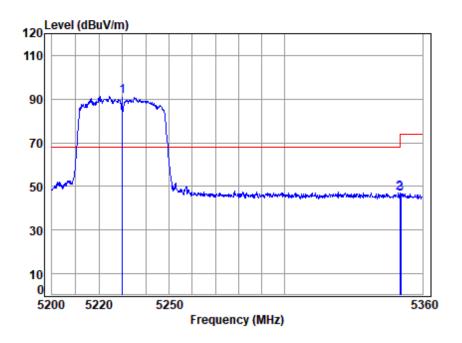


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT

Mode : 5230 Band edge : 5G WIFI 11N40 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.00	7.61	34.06	35.27	84.80	91.20	68.20	23.00	peak
2	5350.02	7.70	34.40	35.21	40.33	47.22	74.00	-26.78	peak
3	5350.59	7.71	34.40	35.21	39.82	46.72	74.00	-27.28	peak



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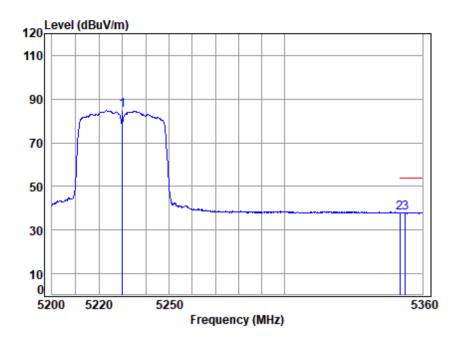


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

Page: 84 of 148

Test Mode: 03; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT

Mode : 5230 Band edge : 5G WIFI 11N40 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.00	7.61	34.06	35.27	78.35	84.75			Average
2	5350.02	7.70	34.40	35.21	31.01	37.90	54.00	-16.10	Average
3	5352.53	7.71	34.41	35.21	31.14	38.05	54.00	-15.95	Average



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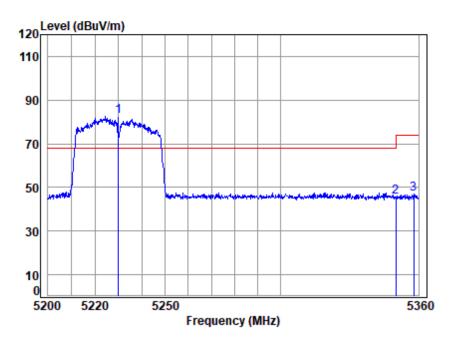


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5230 Band edge Mode : 5G WIFI 11N40 Note

Freq								Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5230.00	7.61	34.06	35.27	76.08	82.48	68.20	14.28	Peak
5350.02	7.70	34.40	35.21	38.75	45.64	74.00	-28.36	Peak
5357.89	7.71	34.43	35.20	40.17	47.11	74.00	-26.89	Peak
	MHz 5230.00 5350.02	Freq Loss MHz dB 5230.00 7.61 5350.02 7.70	Freq Loss Factor MHz dB dB/m 5230.00 7.61 34.06 5350.02 7.70 34.40	Freq Loss Factor Factor MHz dB dB/m dB 5230.00 7.61 34.06 35.27 5350.02 7.70 34.40 35.21	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 5230.00 7.61 34.06 35.27 76.08 5350.02 7.70 34.40 35.21 38.75	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 5230.00 7.61 34.06 35.27 76.08 82.48 5350.02 7.70 34.40 35.21 38.75 45.64	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m 5230.00 7.61 34.06 35.27 76.08 82.48 68.20 5350.02 7.70 34.40 35.21 38.75 45.64 74.00	Cable Ant Preamp Freq Loss Factor Factor Read Level Level Limit Limit Over Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB dB 5230.00 7.61 34.06 35.27 76.08 82.48 68.20 14.28 5350.02 7.70 34.40 35.21 38.75 45.64 74.00 -28.36 5357.89 7.71 34.43 35.20 40.17 47.11 74.00 -26.89



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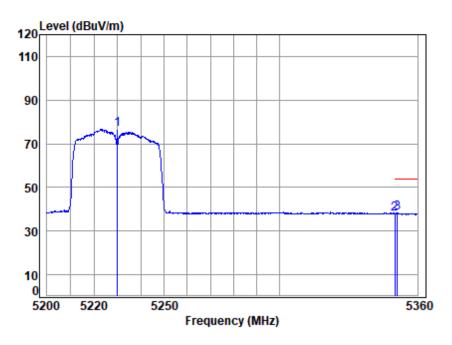


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Report No.: SZCR240800300603

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Test Mode: 03; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

Mode : 5230 Band edge : 5G WIFI 11N40 Note

Frea								Remark
1124	2033		· uc co.	20101	20002	22110	LIMITE	Tellion It
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
								_
5230.00	7.61	34.06	35.27	70.25	76.65			Average
5350.02	7.70	34.40	35.21	31.07	37.96	54.00	-16.04	Average
5351.07	7.71	34.40	35.21	31.33	38.23	54.00	-15.77	Average
	MHz 5230.00 5350.02	Freq Loss MHz dB 5230.00 7.61 5350.02 7.70	Freq Loss Factor MHz dB dB/m 5230.00 7.61 34.06 5350.02 7.70 34.40	Freq Loss Factor Factor MHz dB dB/m dB 5230.00 7.61 34.06 35.27 5350.02 7.70 34.40 35.21	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 5230.00 7.61 34.06 35.27 70.25 5350.02 7.70 34.40 35.21 31.07	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 5230.00 7.61 34.06 35.27 70.25 76.65 5350.02 7.70 34.40 35.21 31.07 37.96	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 5230.00 7.61 34.06 35.27 70.25 76.65 5350.02 7.70 34.40 35.21 31.07 37.96 54.00	



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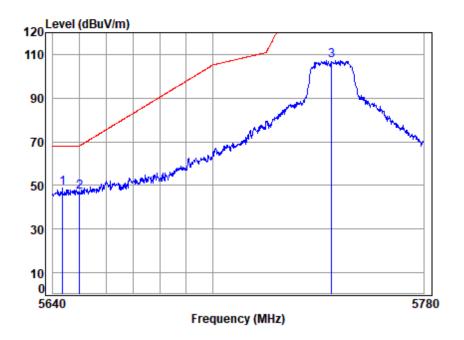


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

Page: 87 of 148

Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03006AT

Mode : 5745 Band edge Note 5G WTFT 11A

loce	. Ju w	TLT TT	4							
		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	5643.60	7.92	34.44	35.06	41.60	48.90	68.20	-19.30	Peak	
2	5649.97	7.93	34.40	35.06	39.64	46.91	68.20	-21.29	Peak	
3	5745.00	7.99	34.21	35.02	100.23	107.41			peak	



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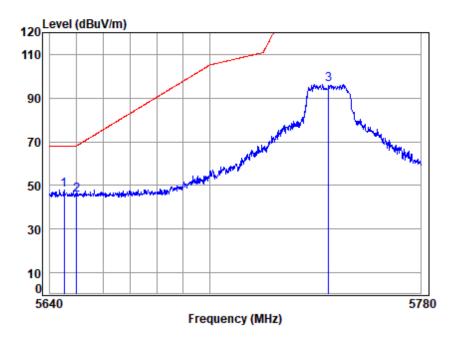


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5745 Band edge Mode : 5G WIFI 11A Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5645.26	7.92	34.43	35.06	40.44	47.73	68.20	-20.47	Peak
2	5649.97	7.93	34.40	35.06	38.36	45.63	68.20	-22.57	Peak
3	5745.00	7.99	34.21	35.02	89.32	96.50			peak



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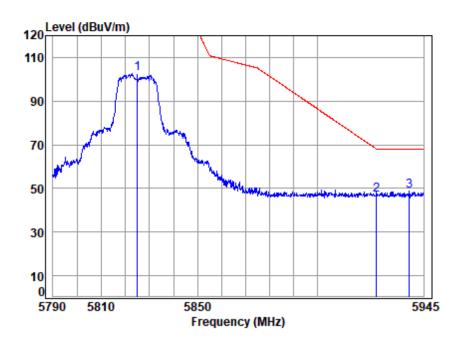


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03006AT

Mode : 5825 Band edge Note : 5G WTFT 11A

IOCE	. Ju w	111 111	4							
		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	5825.00	8.05	34.35	34.98	95.24	102.66			peak	
2	5925.09	8.12	34.65	34.93	39.18	47.02	68.20	-21.18	Peak	
3	5938.88	8.13	34.68	34.93	40.76	48.64	68.20	-19.56	Peak	



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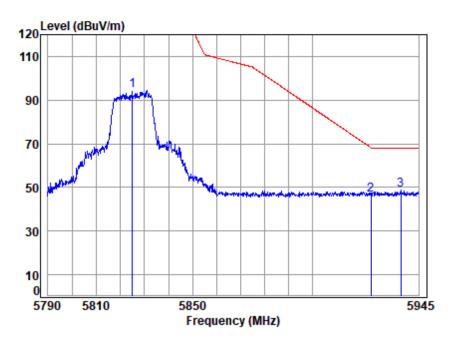


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5825 Band edge Mode : 5G WIFI 11A Note

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.00	8.05	34.35	34.98	87.03	94.45			peak
2	5924.77	8.12	34.65	34.93	38.62	46.46	68.37	-21.91	Peak
3	5937.47	8.13	34.68	34.93	40.81	48.69	68.20	-19.51	Peak



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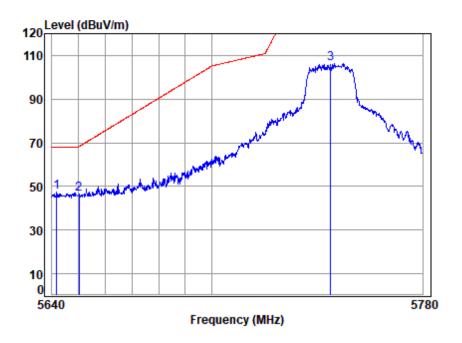


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 03006AT

Mode : 5745 Band edge Note : 5G WTFT 11N20

JLE	. Ju w	111 111	120							
		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	5641.80	7.92	34.45	35.07	40.34	47.64	68.20	-20.56	Peak	
2	5650.10	7.93	34.40	35.06	39.27	46.54	68.28	-21.74	Peak	
3	5745.00	7.99	34.21	35.02	99.30	106.48			peak	



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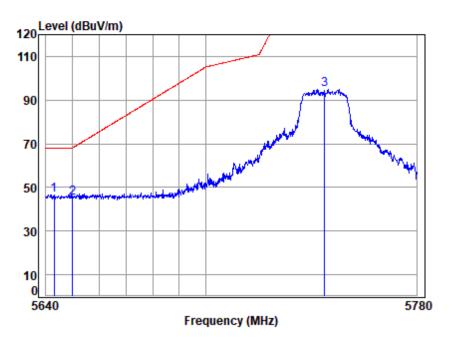


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Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5745 Band edge Mode : 5G WIFI 11N20 Note

	Freq			Preamp Factor					Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5643.04	7.92	34.44	35.06	39.38	46.68	68.20	-21.52	Peak
2	5649.97	7.93	34.40	35.06	38.04	45.31	68.20	-22.89	Peak
3	5745.00	7.99	34.21	35.02	87.82	95.00			peak



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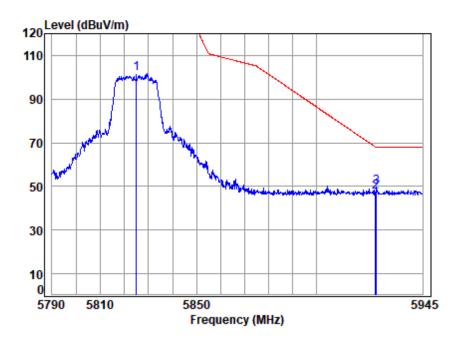


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT

Mode : 5825 Band edge Note : 5G WTFT 11N20

IO CC	. 30 W	111 111	120							
		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	5825.00	8.05	34.35	34.98	94.14	101.56			peak	
2	5925.09	8.12	34.65	34.93	39.39	47.23	68.20	-20.97	Peak	
3	5925.56	8.12	34.65	34.93	41.98	49.82	68.20	-18.38	Peak	



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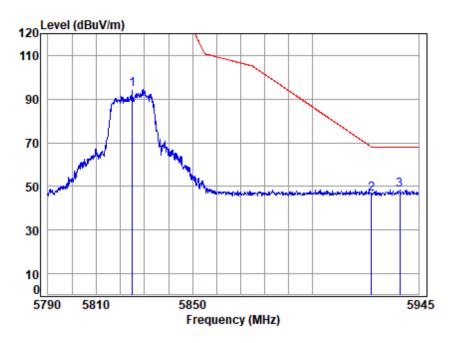


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Report No.: SZCR240800300603

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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5825 Band edge Mode : 5G WIFI 11N20 Note

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5825.00	8.05	34.35	34.98	87.18	94.60			peak	
2	5925.09	8.12	34.65	34.93	38.86	46.70	68.20	-21.50	Peak	
3	5937.15	8.13	34.67	34.93	40.51	48.38	68.20	-19.82	Peak	



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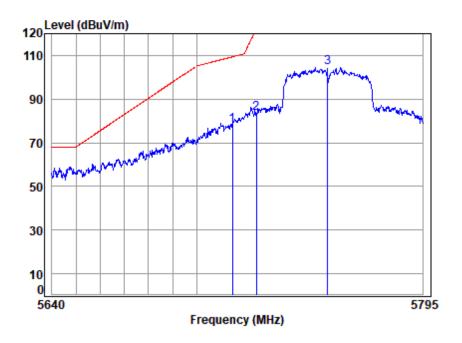


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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03006AT

: 5755 Band edge Mode : 5G WIFI 11N40 Note

	Freq			Preamp Factor					Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.00	7.97	34.27	35.03	70.90	78.11	109.40	-31.29	peak
2	5725.00	7.98	34.25	35.03	76.44	83.64	122.20	-38.56	peak
3	5755.00	8.00	34.21	35.01	97.36	104.56			peak



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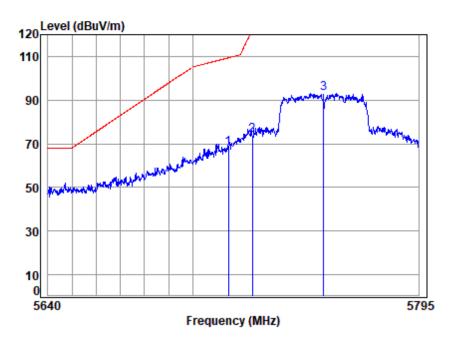


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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5755 Band edge Mode : 5G WIFI 11N40 Note

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.00	7.97	34.27	35.03	60.72	67.93	109.40	-41.47	peak
2	5725.00	7.98	34.25	35.03	66.61	73.81	122.20	-48.39	peak
3	5755.00	8.00	34.21	35.01	85.75	92.95			peak



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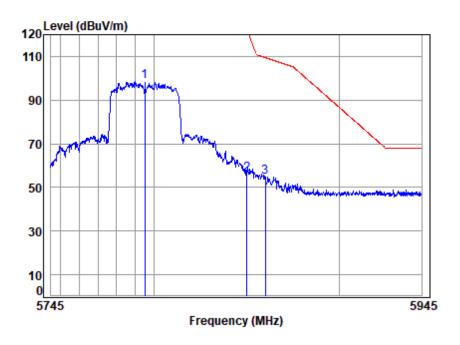


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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 03006AT

Mode : 5795 Band edge Note 5G WTFT 11N40

loce	te : 34 WIFI 11N40									
		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	5795.00	8.03	34.29	34.99	91.01	98.34			peak	
2	5850.00	8.07	34.40	34.97	48.84	56.34	122.20	-65.86	peak	
3	5860.00	8.07	34.44	34.96	47.34	54.89	109.40	-54.51	peak	



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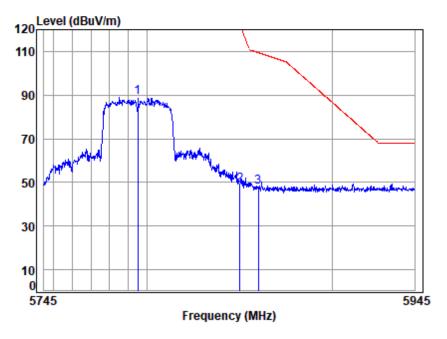


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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL Job No : 03006AT

: 5795 Band edge Mode : 5G WIFI 11N40 Note

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5795.00	8.03	34.29	34.99	81.82	89.15			peak	
2	5850.00	8.07	34.40	34.97	41.44	48.94	122.20	-73.26	peak	
3	5860.00	8.07	34.44	34.96	40.49	48.04	109.40	-61.36	peak	



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7.6 Duty Cycle

Test Requirement KDB 789033 D02 II B 1 Test Method: KDB 789033 II B 1

7.6.1 E.U.T. Operation

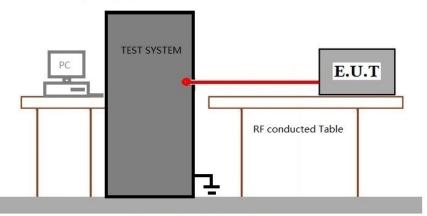
Operating Environment:

Temperature: 24.3 °C Humidity: 49.6 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

	Tion Took Mode Bookhildin							
Pre-scan / Final test	Mode Code	Description						
Final test	03	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.						
Final test	06	TX mode (U-NII-3) _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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20, Only the data of worst case is recorded in the report.						

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 99% Bandwidth

Test Requirement

N/A

Test Method:

KDB 789033 II D

7.7.1 E.U.T. Operation

Operating Environment:

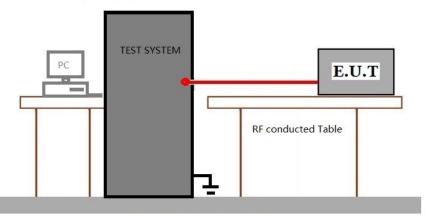
Temperature: 24.3 °C Humidity: 49.6 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

	7.7.2 Test mode Description							
Pre-scan / Final test	Mode Code	Description						
Final test	03	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.						
Final test	06	TX mode (U-NII-3) _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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20, Only the data of worst case is recorded in the report.						

7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II C 1

7.8.1 E.U.T. Operation

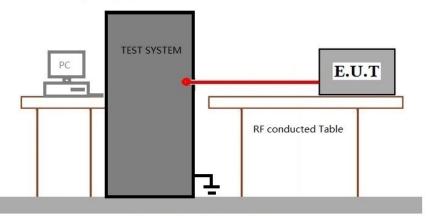
Operating Environment:

Temperature: 24.3 °C Humidity: 49.6 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

	noiz root mode becomption							
Pre-scan / Final test	Mode Code	Description						
Final test	03	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.						
Final test	06	TX mode (U-NII-3) _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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20, Only the data of worst case is recorded in the report.						

7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.9 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

7.9.1 E.U.T. Operation

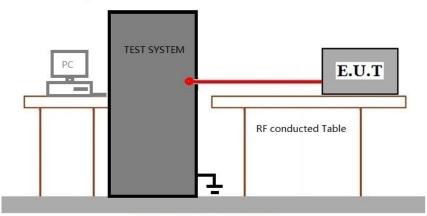
Operating Environment:

24.3 °C Atmospheric Pressure: 1020 mbar Temperature: Humidity: 49.6 % RH

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description							
Final test	06	TX mode (U-NII-3) _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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20, Only the data of worst case is recorded in the report.							

7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.10 Peak Power spectrum density

47 CFR Part 15, Subpart E 15.407 (a) Test Requirement

Test Method: KDB 789033 D02 II F

Limit:

Frequenc	y band(MHz)	Limit			
E1E0 E	250	≤17dBm in 1MHz for master device			
5150-5	250	≤11dBm in 1MHz for client device			
5250-5	350	≤11dBm in 1MHz for client device			
5470-5	725	≤11dBm in 1MHz for client device			
5725-5	850	≤30dBm in 500 kHz			
Remark:		power spectral density is measured as a conducted emission ection of a calibrated test instrument to the equipment under			

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24.3 °C Humidity: 49.6 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-3) _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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20, Only the data of worst case is recorded in the report.



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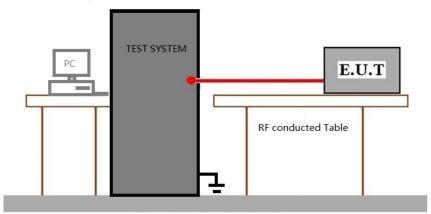


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7.10.3 Test Setup Diagram



Ground Reference Plane

7.10.4 Measurement Procedure and Data

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7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g) Test Method: ANSI C63.10 (2013) Section 6.8

7.11.1 E.U.T. Operation

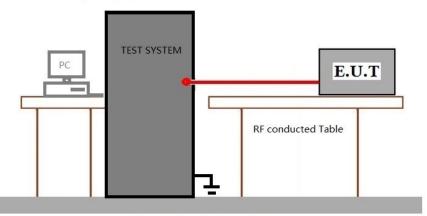
Operating Environment:

Temperature: 24.3 °C Humidity: 49.6 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

	The foot mode boombion							
Pre-scan / Final test	Mode Code	Description						
Final test	03	TX mode (U-NII-1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20/40, Only the data of worst case is recorded in the report.						
Final test	06	TX mode (U-NII-3) _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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n20, Only the data of worst case is recorded in the report.						

7.11.3 Test Setup Diagram



Ground Reference Plane

7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Test Setup Photo 8

Refer to Setup Photo for SZCR2408003006AT

EUT Constructional Details (EUT Photos) 9

Refer to External and Internal Photos for SZCR2408003006AT



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

	Ant1									
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
		5180	1.360	1.412	96.32	0.16	0.03			
		5200	1.361	1.412	96.39	0.16	0.00			
802.11a	SISO	5240	1.360	1.412	96.32	0.16	0.03			
002.11a	3130	5745	1.361	1.412	96.39	0.16	0.03			
		5785	1.360	1.412	96.32	0.16	0.03			
		5825	1.361	1.412	96.39	0.16	0.03			
	SISO	5180	1.272	1.324	96.07	0.17	0.03			
		5200	1.273	1.325	96.08	0.17	0.03			
802.11n		5240	1.272	1.324	96.07	0.17	0.03			
(HT20)		5745	1.273	1.325	96.08	0.17	0.04			
		5785	1.273	1.325	96.08	0.17	0.07			
		5825	1.273	1.324	96.15	0.17	0.03			
		5190	0.633	0.684	92.54	0.34	0.06			
802.11n	SISO	5230	0.633	0.684	92.54	0.34	0.03			
(HT40)	3130	5755	0.633	0.684	92.54	0.34	0.03			
		5795	0.633	0.684	92.54	0.34	0.04			



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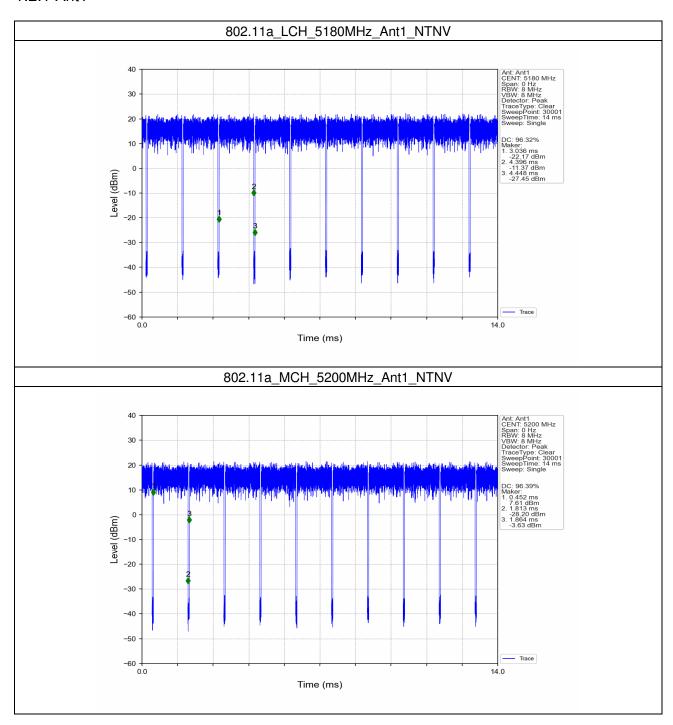
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1.2 Test Graph

1.2.1 Ant1





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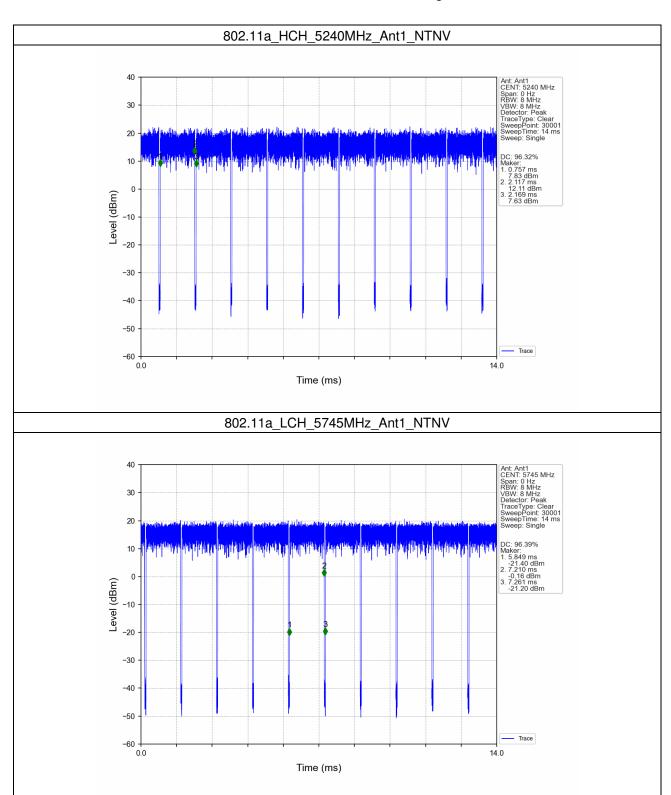
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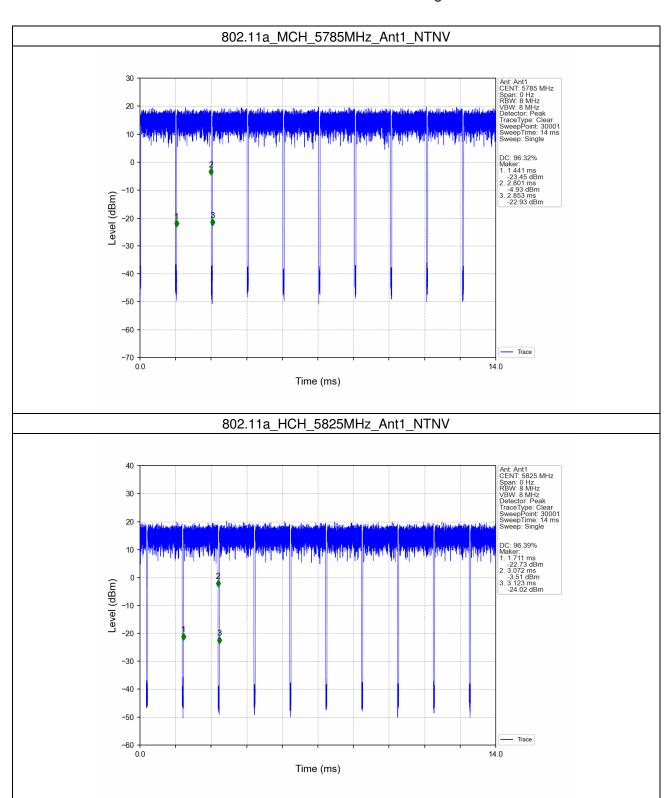
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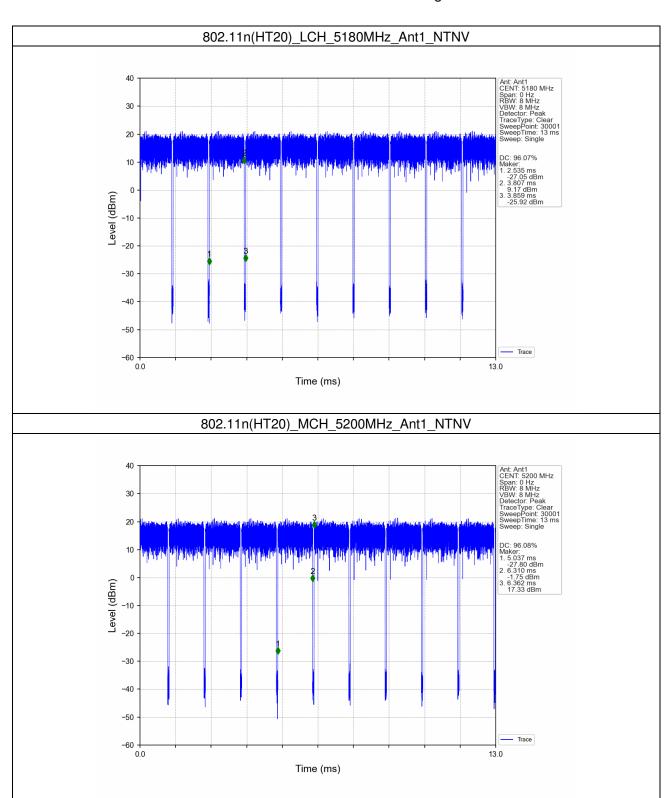
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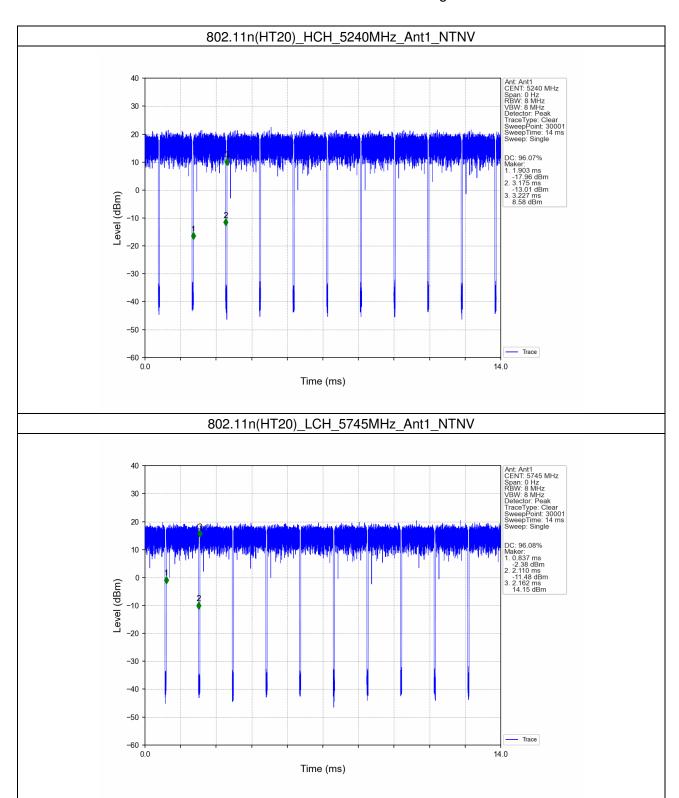
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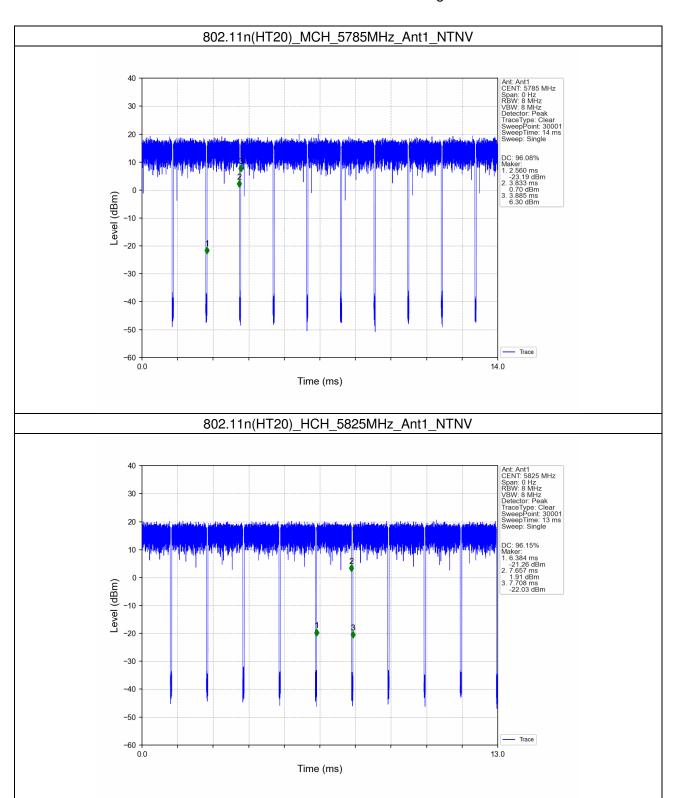
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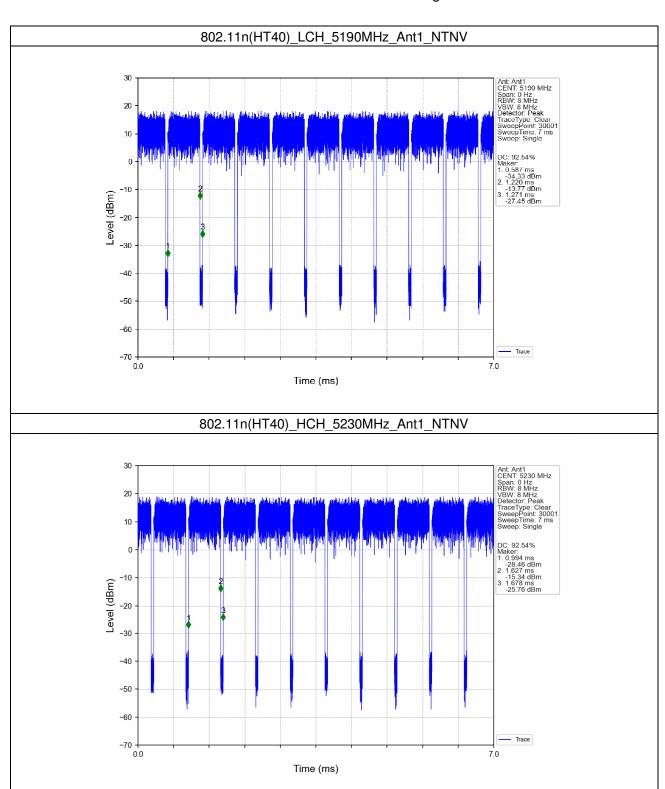
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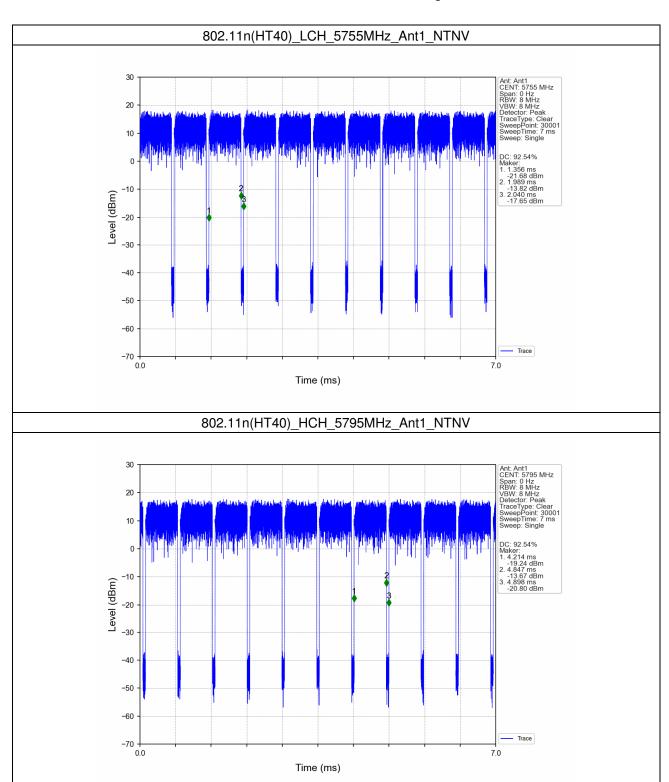
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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mada	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Voudiet
Mode				Result	Limit	Verdict
		5180	1	17.656	/	Pass
	SISO	5200	1	17.181	/	Pass
900 110		5240	1	17.295	/	Pass
802.11a		5745	1	22.130	/	Pass
		5785	1	20.937	/	Pass
		5825	1	19.200	/	Pass
	SISO	5180	1	18.358	/	Pass
		5200	1	18.177	/	Pass
802.11n		5240	1	18.111	/	Pass
(HT20)		5745	1	20.801	/	Pass
		5785	1	18.848	/	Pass
		5825	1	20.240	/	Pass
802.11n (HT40)	SISO	5190	1	35.836	/	Pass
		5230	1	35.887	/	Pass
		5755	1	41.384	/	Pass
		5795	1	37.838	/	Pass



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2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandv	\/audiat	
				Result	Limit	Verdict
	SISO	5745	1	15.116	>=0.5	Pass
802.11a		5785	1	13.909	>=0.5	Pass
		5825	1	15.137	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	15.132	>=0.5	Pass
		5785	1	15.120	>=0.5	Pass
		5825	1	15.108	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	31.263	>=0.5	Pass
		5795	1	31.307	>=0.5	Pass

2.1.3 26dB BW

Mada	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Manaliat
Mode				Result	Limit	Verdict
802.11a	SISO	5180	1	23.498	/	Pass
		5200	1	19.701	/	Pass
		5240	1	23.317	/	Pass
802.11n (HT20)	SISO	5180	1	22.160	/	Pass
		5200	1	20.275	/	Pass
		5240	1	20.165	/	Pass
802.11n (HT40)	SISO	5190	1	46.682	/	Pass
		5230	1	51.522	/	Pass



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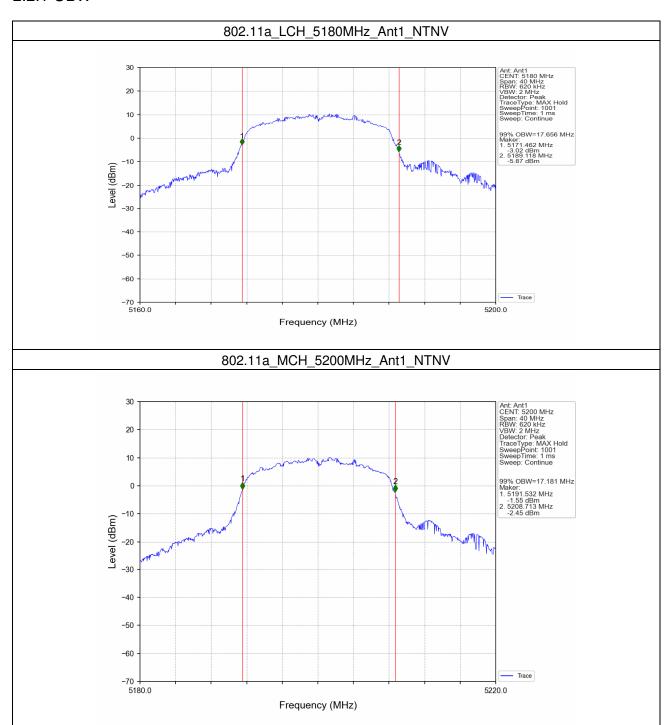
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2.2 Test Graph

2.2.1 OBW





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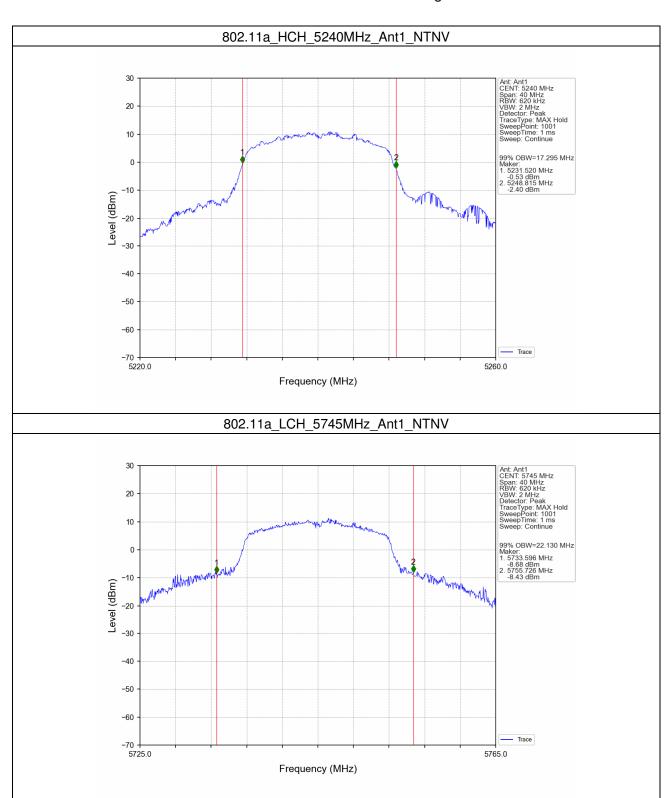
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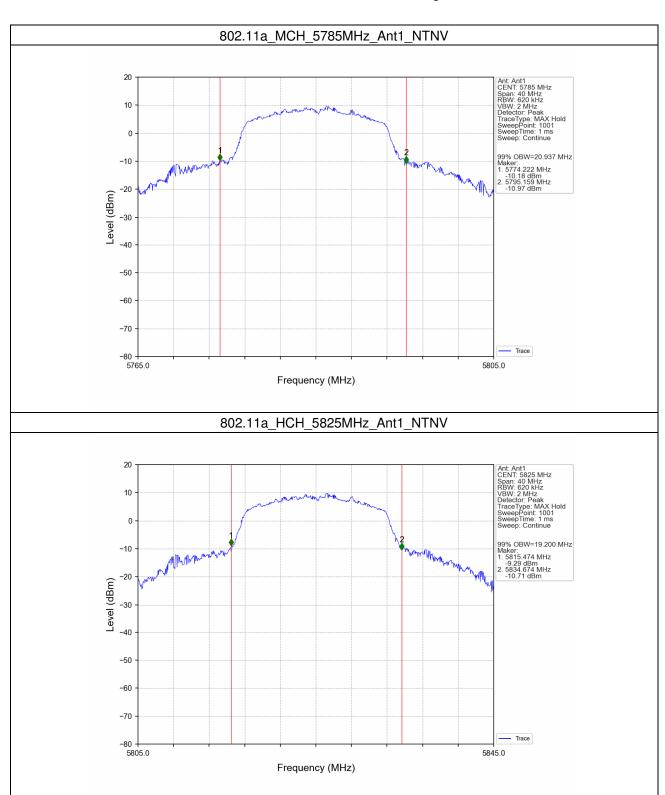
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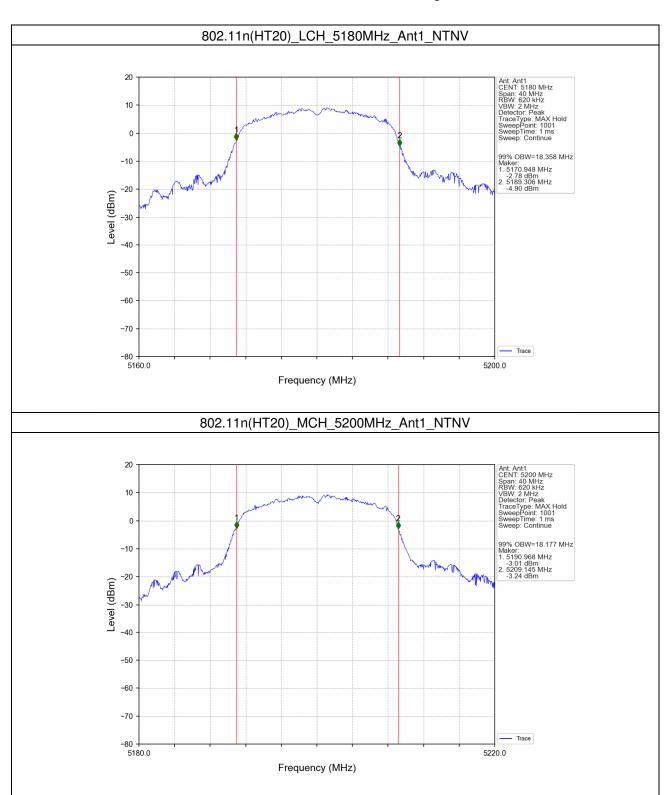
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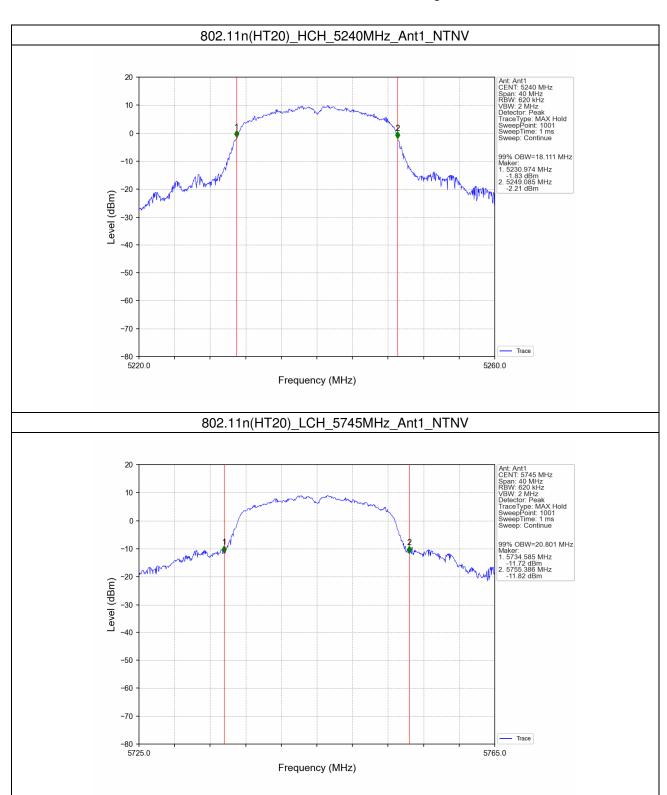
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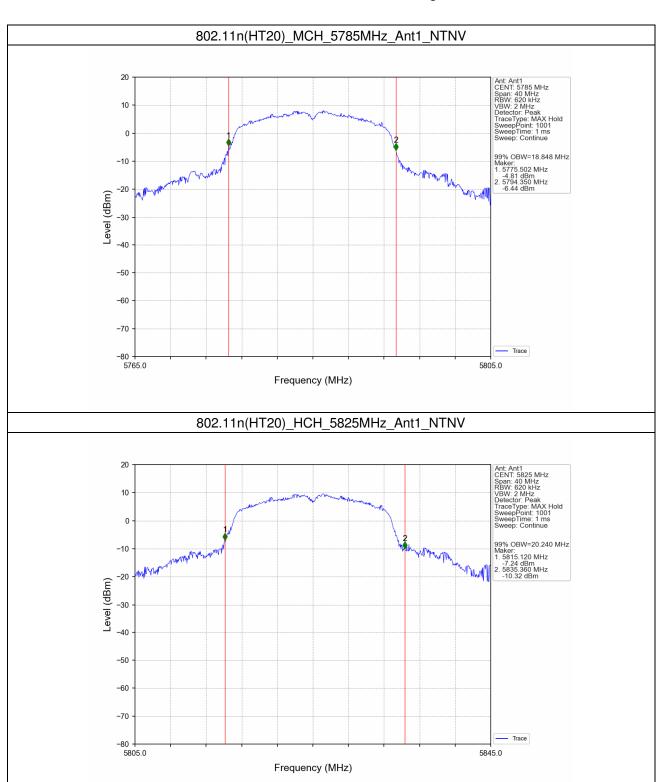
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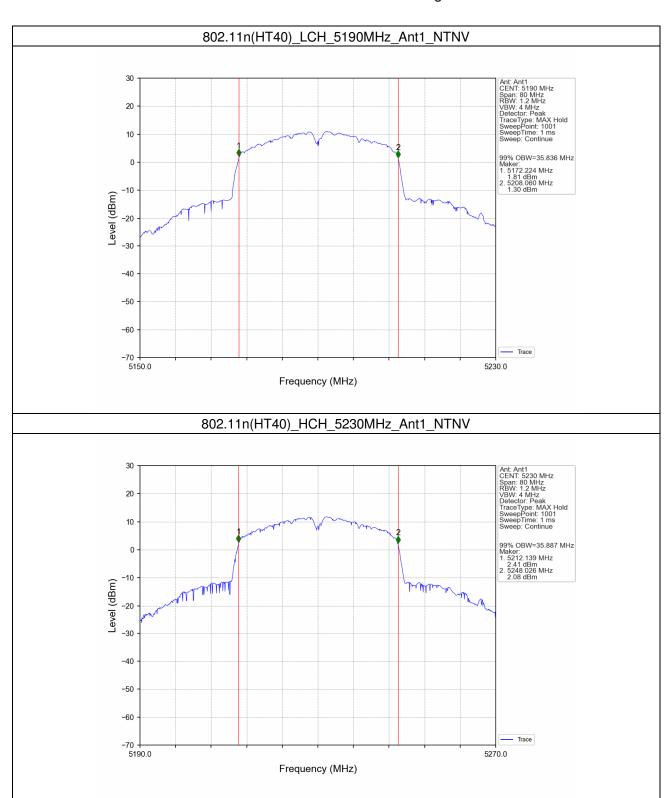
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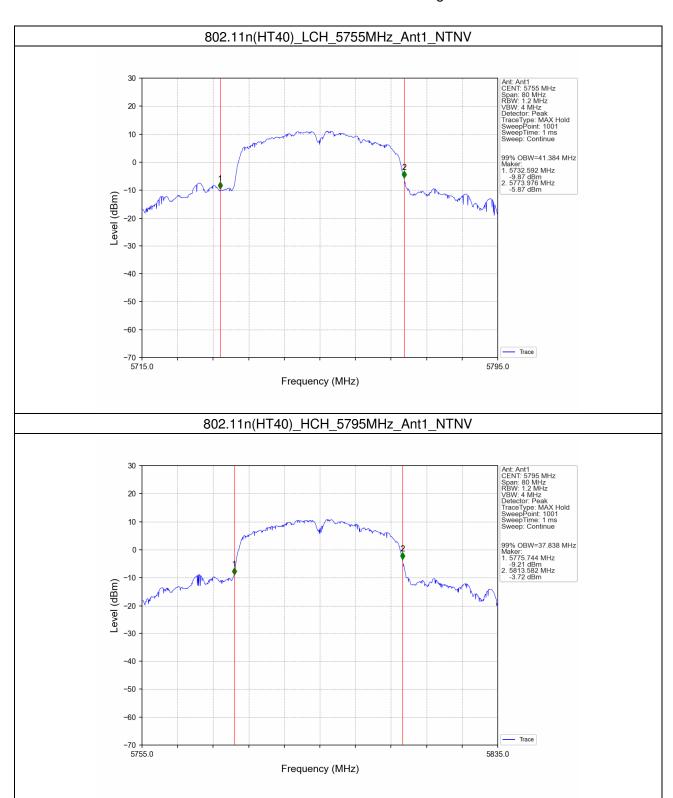
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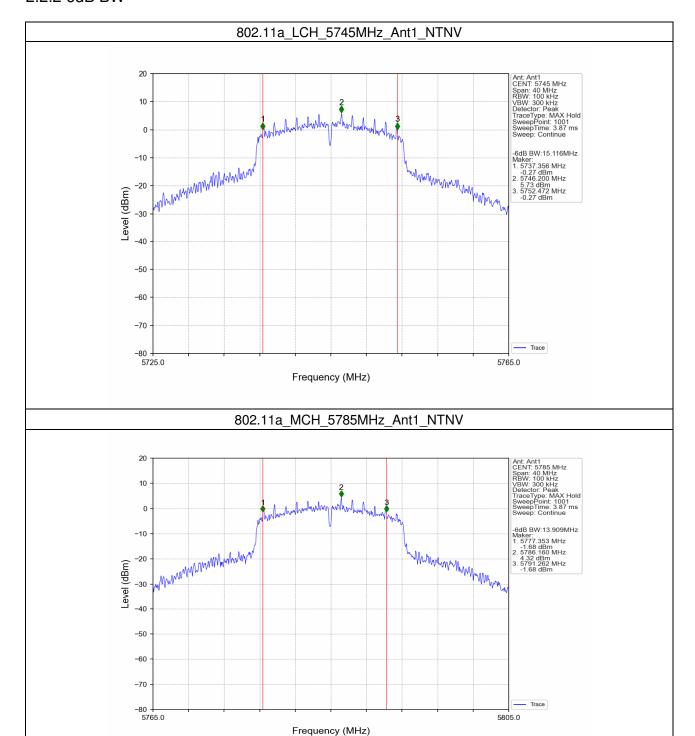


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2.2.2 6dB BW





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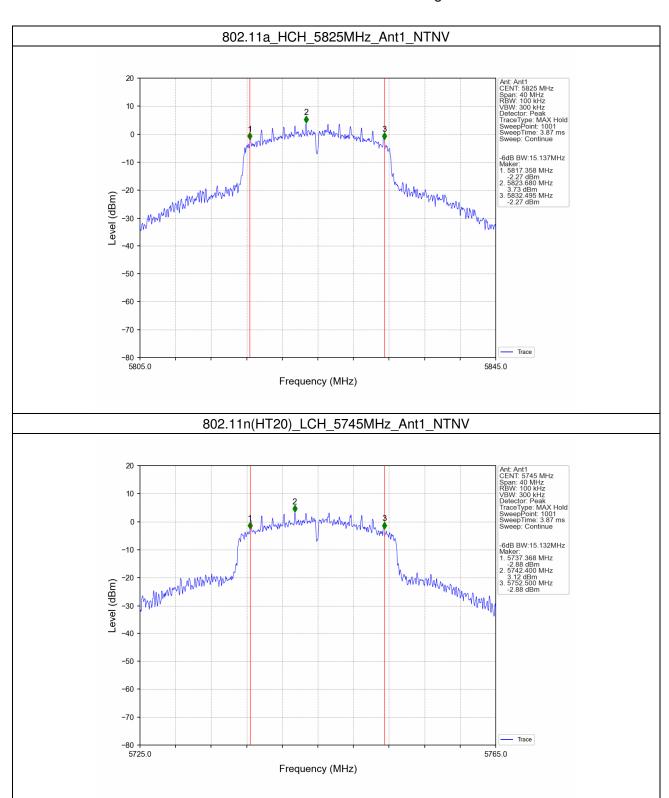
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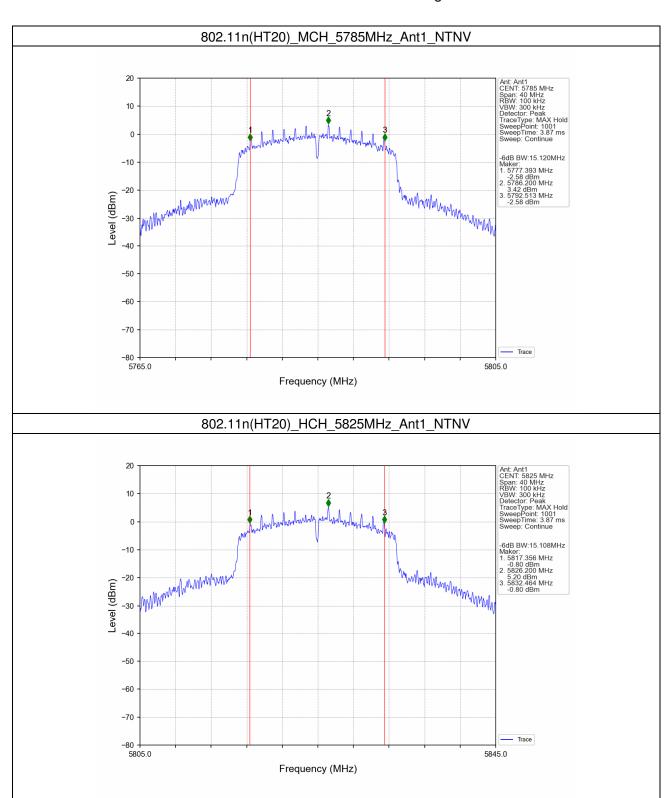
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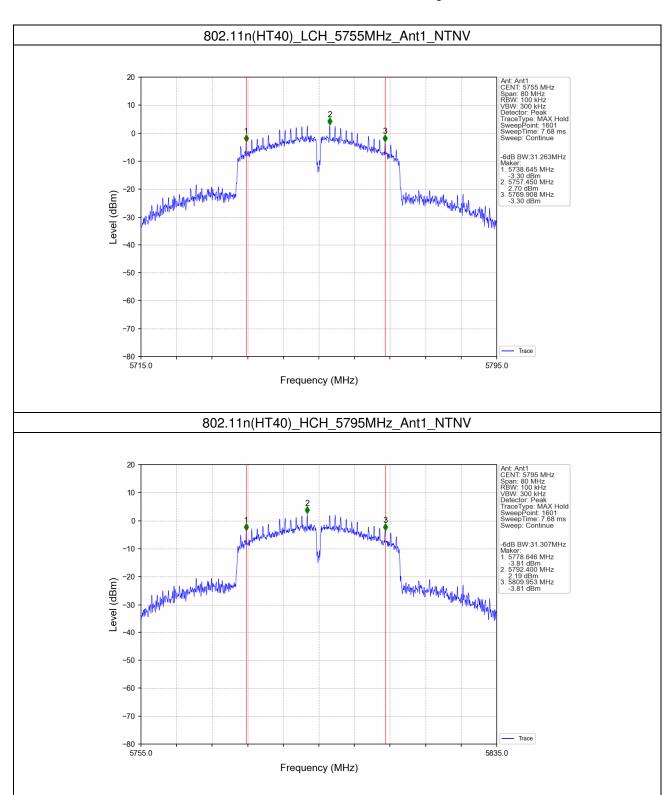
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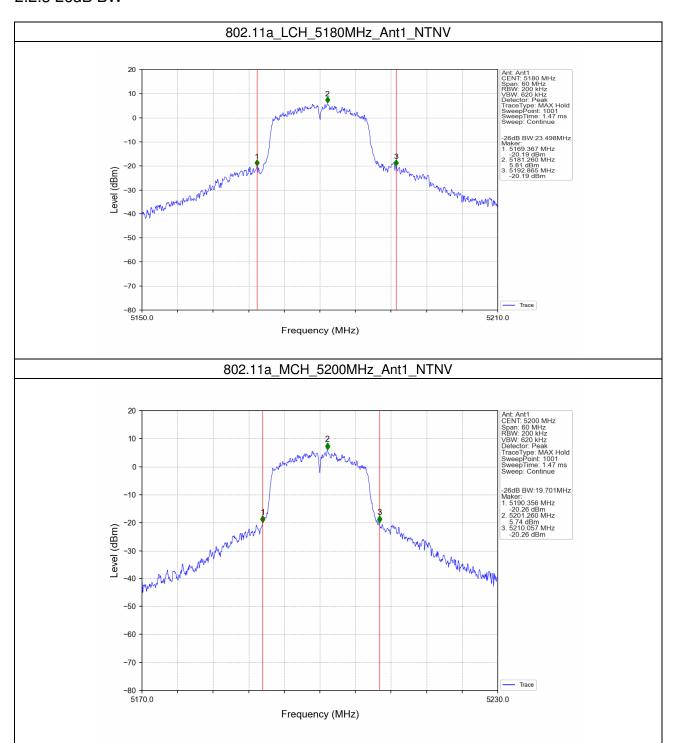


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2.2.3 26dB BW





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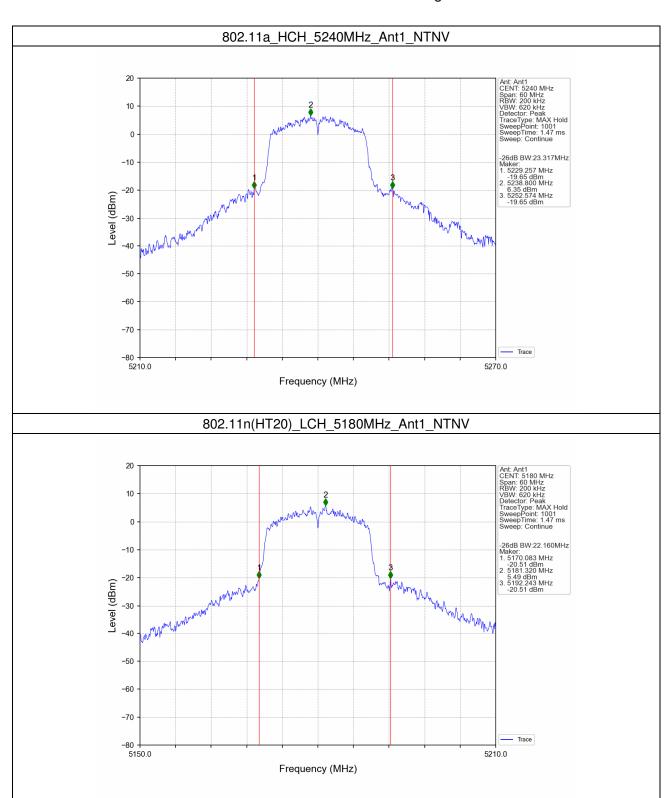
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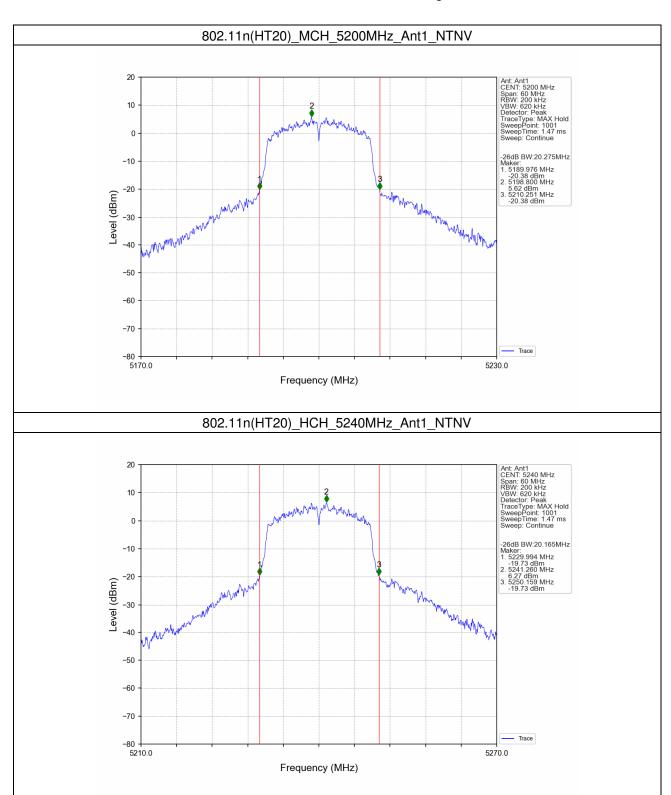
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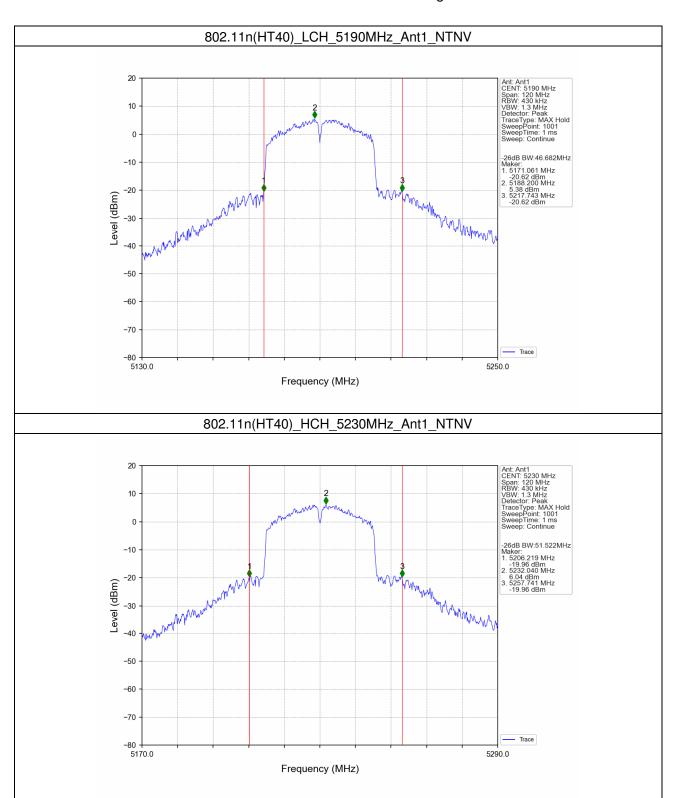
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Cor (dB	Verdict			
			ANT1	Limit			
	SISO	5180	14.52	<=23.98	Pass		
		5200	14.51	<=23.98	Pass		
802.11a		5240	15.35	<=23.98	Pass		
002.11a		5745	14.78	<=30	Pass		
		5785	13.90	<=30	Pass		
		5825	14.05	<=30	Pass		
	SISO	5180	14.00	<=23.98	Pass		
		5200	14.31	<=23.98	Pass		
802.11n		5240	14.94	<=23.98	Pass		
(HT20)		5745	14.09	<=30	Pass		
		5785	13.97	<=30	Pass		
		5825	14.64	<=30	Pass		
	SISO	5190	14.43	<=23.98	Pass		
802.11n (HT40)		5230	14.21	<=23.98	Pass		
		5755	14.77	<=30	Pass		
		5795	14.44	<=30	Pass		
Note1: Antenna Gain: Ant1: -5.88dBi;							



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX	Frequency (MHz)	Maximum PS	Vaudiat		
	Type		ANT1	Limit	Verdict	
802.11a	SISO	5180	4.69	<=11	Pass	
		5200	4.56	<=11	Pass	
		5240	5.47	<=11	Pass	
802.11n (HT20)	SISO	5180	4.01	<=11	Pass	
		5200	4.26	<=11	Pass	
		5240	5.04	<=11	Pass	
802.11n (HT40)	SISO	5190	1.67	<=11	Pass	
		5230	1.35	<=11	Pass	
Note1: Antenna Gain: Ant1: -5.88dBi;						

4.1.2 PSD-Band3

Mode	TX	Frequency (MHz)	Maximum PSD	Vaudiat		
	Type		ANT1	Limit	Verdict	
802.11a	SISO	5745	2.09	<=30	Pass	
		5785	1.24	<=30	Pass	
		5825	1.29	<=30	Pass	
802.11n (HT20)	SISO	5745	1.39	<=30	Pass	
		5785	1.02	<=30	Pass	
		5825	1.87	<=30	Pass	
802.11n (HT40)	SISO	5755	-0.88	<=30	Pass	
		5795	-1.29	<=30	Pass	
Note1: Antenna Gain: Ant1: -5.88dBi;						



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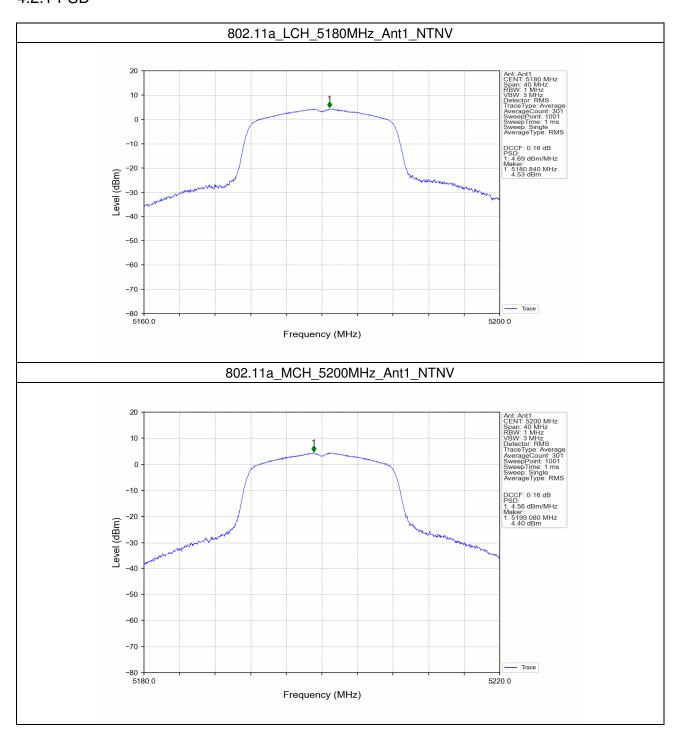
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4.2 Test Graph

4.2.1 PSD





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