

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

Report No.: SZCR230900294905

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TEST REPORT

Application No.: SZCR2309002949AT

Applicant: Shenzhen Xinguodu Technology Co., Ltd.

Address of Applicant: 17B JinSong Mansion, Terra Industrial & Trade Park Chegongmiao, Futian

District, Shenzhen, 518040 China

Manufacturer: Shenzhen Xinguodu Technology Co., Ltd.

Address of Manufacturer: 17B JinSong Mansion, Terra Industrial & Trade Park Chegongmiao, Futian

District, Shenzhen, 518040 China

Equipment Under Test (EUT):

EUT Name: POS Terminal Model No.: **UN20**

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

FCC ID: XDQUN20-02

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

Date of Receipt:

2023-09-10 to 2023-09-13 Date of Test:

Date of Issue: 2023-09-13

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		2023-09-13		Original		

Authorized for issue by:		
	Concert Chen	
	Vincent Chen/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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Test Summary 2

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15,	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 Matt	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
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
Maximum Conducted output power	47 CFR Part 15,	KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density	Subpart E 15.407	KDB 789033 D02 II F	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		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass

Declaration of EUT Family Grouping:

Model No.: UN20

The model UN20 which has two versions UN20W8 and UN20W0.

Since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above versions, with only difference on with 4G module or not. The versions were showed on the serial number. Consider the difference, we test the worst case UN20W8 and shows the data in this report. And the 4G module had been certified by (FCC ID: XMR202008EC25AFXD).



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General Information

Details of E.U.T. 4.1

Powered by DC adapter:
Model: ADS-65HI-12N-3 12048E
Input: AC 100-240V, 50/60Hz, Max. 1.5A
Output: DC12V, 4.0A, 48.0W
DC Connect cable: 13cm
DC Cable from adapter with one core: 150cm
AC Cable 100cm
LTE Antenna 150cm
5180-5240MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels)
5190-5230MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels)
5210MHz (1 Channel); U-NII-3: 5775MHz (1 Channel)
802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
802.11a/n/ac 20: 20MHz; 802.11n/ac 40: 40MHz; 802.11ac 80: 80MHz
Slave without Radar detection; Without DFS function
Without TPC function
FPC Antenna
3.98dBi

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

4.2 Description of Support Units

Description	Description Manufacturer		Serial No.			
The EUT has been tested as an independent unit.						



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions (Below 1GHz)	\pm 6.0dB for 3m; \pm 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);
Frequency Stability	± 7.25 x 10-8

Remark:

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

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



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4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

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

VCCI (Member No. 1937)

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

• FCC -Designation Number: CN1336

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 **Equipment List**

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13	
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2023-03-20	2024-03-19	
Matching Pad	N/A	N/A	SEM021-23	2023-03-22	2024-03-21	
Matching Pad	N/A	N/A	SEM021-24	2023-03-22	2024-03-21	
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07	2024-07-06	
LISN	Rohde&Schwarz	ENV216	SEM007-01	2022-09-20	2023-09-19	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19	

Duty Cycle					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

99% Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20



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26dB Emission bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Minimum 6 dB bandwidth (5.725-5.85 GHz band)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Maximum Conducted output power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20



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Peak Power spectrum density					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2022-10-20	2023-10-19
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2021-10-28	2023-10-27
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06



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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	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06

Frequency Stability					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2022-09-29	2023-09-28
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

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



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Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.98dBi.

Antenna location: Refer to internal photos



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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:

WIFI 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:

Eroquanay of amission/MHz	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: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

1.1.2 TESLIV		oon palen
Pre-scan / Final test	Mode Code	Description
Final test	04	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	05	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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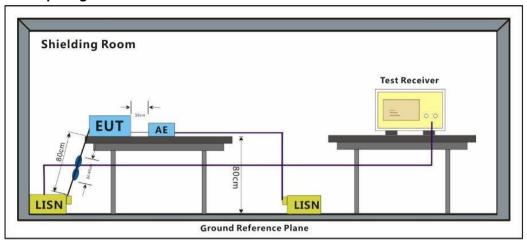


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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



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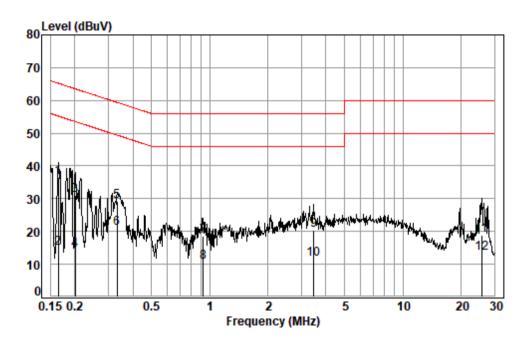


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Test Mode: 04; Line: Live line



: Shielding Room

Condition: Line Job No. : 02949AT

Test mode: 04

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1641	0.02	9.62	26.73	36.37	65.25	-28.88	QP
2	0.1641	0.02	9.62	5.39	15.03	55.25	-40.22	Average
3	0.2018	0.02	9.62	21.43	31.07	63.54	-32.47	QP
4	0.2018	0.02	9.62	4.78	14.42	53.54	-39.12	Average
5	0.3321	0.03	9.62	19.64	29.29	59.40	-30.11	QP
6 *	0.3321	0.03	9.62	11.48	21.13	49.40	-28.27	Average
7	0.9282	0.06	9.62	8.81	18.49	56.00	-37.51	QP
8	0.9282	0.06	9.62	1.06	10.74	46.00	-35.26	Average
9	3.4722	0.08	9.66	10.72	20.46	56.00	-35.54	QP
10	3.4722	0.08	9.66	1.95	11.69	46.00	-34.31	Average
11	25.5912	0.31	10.09	8.60	19.00	60.00	-41.00	QP
12	25.5912	0.31	10.09	3.08	13.48	50.00	-36.52	Average



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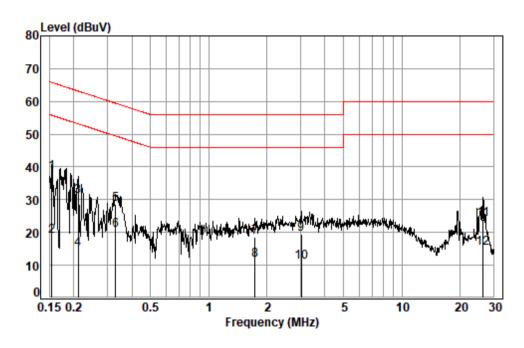


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Test Mode: 04; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 02949AT

Test mode: 04

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1540	0.02	9.62	28.63	38.27	65.78	-27.51	QP
2	0.1540	0.02	9.62	9.09	18.73	55.78	-37.05	Average
3	0.2117	0.02	9.62	21.34	30.98	63.14	-32.16	QP
4	0.2117	0.02	9.62	5.37	15.01	53.14	-38.13	Average
5	0.3303	0.03	9.62	18.93	28.58	59.44	-30.86	QP
6 *	0.3303	0.03	9.62	11.06	20.71	49.44	-28.73	Average
7	1.7345	0.07	9.64	8.97	18.68	56.00	-37.32	QP
8	1.7345	0.07	9.64	1.77	11.48	46.00	-34.52	Average
9	3.0253	0.08	9.65	9.76	19.49	56.00	-36.51	QP
10	3.0253	0.08	9.65	1.32	11.05	46.00	-34.95	Average
11	26.4178	0.32	10.36	13.34	24.02	60.00	-35.98	QP
12	26.4178	0.32	10.36	4.45	15.13	50.00	-34.87	Average

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7.2 Duty Cycle

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

7.2.1 E.U.T. Operation

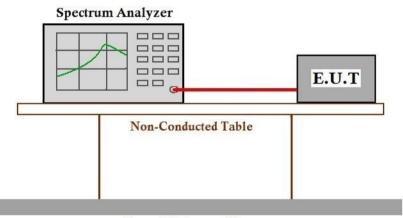
Operating Environment:

Temperature: 23.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

	7.2.2 Test mode bescription				
Pre-scan / Final test	Mode Code	Description			
Final test	04	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Final test	05	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			

7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

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7.3 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.3.1 E.U.T. Operation

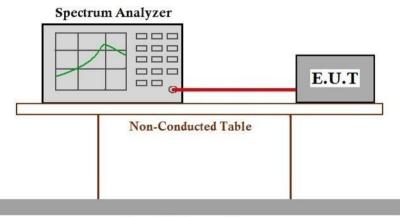
Operating Environment:

Temperature: 23.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

	7.0.2 Test mode bescription				
Pre-scan / Final test	Mode Code	Description			
Final test	04	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Final test	05	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

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7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

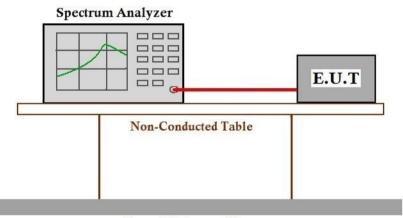
Operating Environment:

Temperature: 23.6 °C Atmospheric Pressure: 1000 mbar Humidity: 52.3 % RH

7.4.2 Test Mode Description

	7.4.2 Test mode besomption				
Pre-scan / Final test	Mode Code	Description			
Final test	04	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Final test	05	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			

7.4.3 Test Setup Diagram



Ground Reference Plane

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7.4.4 Measurement Procedure and Data

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7.5 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

7.5.1 E.U.T. Operation

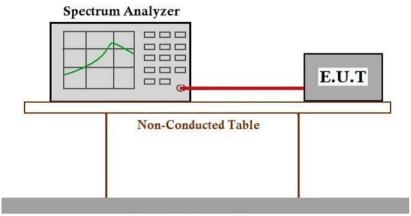
Operating Environment:

23.6 °C Temperature: Humidity: 52.3 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	05	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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7.6 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

Limit:

Frequency band(MHz)	Limit	
F1F0 F2F0	≤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 th	e 26dB emission bandwidth in MHz.	
of continuous t	The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of a rms-equivalent voltage.	

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Atmospheric Pressure: 1000 mbar Humidity: 52.3 % RH

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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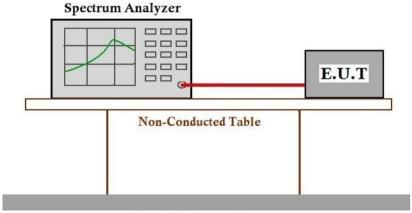


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7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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

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7.7 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

Limit:

Frequency band(MHz)		Limit	
5150-5250		≤17dBm in 1MHz for master device	
5150-5	0250	≤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:		num power spectral density is measured as a conducted emission connection of a calibrated test instrument to the equipment under	

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1000 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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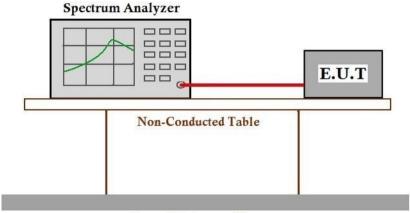


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7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

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7.8 Radiated Emissions (Below 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: 10m

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 51.5 % RH Atmospheric Pressure: 1000 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	05	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.



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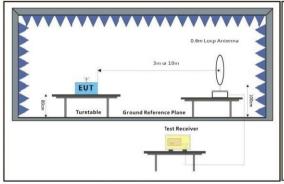


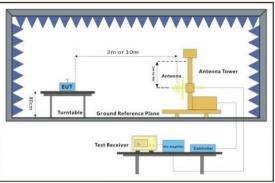
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7.8.3 Test Setup Diagram





Below 30MHz 30MHz-1GHz



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7.8.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 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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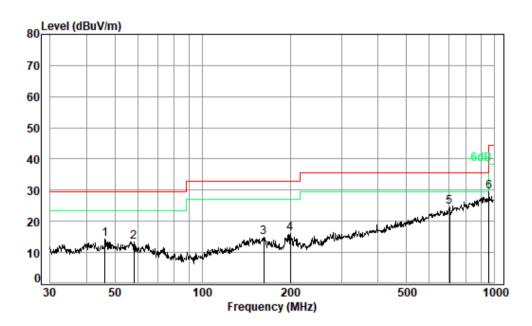


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Test Mode: 04; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 02949AT

Test Mode: 04

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_									
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	46.340	28.95	17.29	0.49	32.50	14.23	29.50	-15.27	QP
2	58.203	28.20	17.25	0.54	32.48	13.51	29.50	-15.99	QP
3	162.041	28.91	17.31	0.97	32.40	14.79	33.00	-18.21	QP
4	199.986	32.52	14.89	1.12	32.40	16.13	33.00	-16.87	QP
5	704.226	29.52	25.10	2.24	32.29	24.57	35.60	-11.03	QP
6 pp	958.794	29.87	28.36	2.63	31.28	29.58	35.60	-6.02	OP



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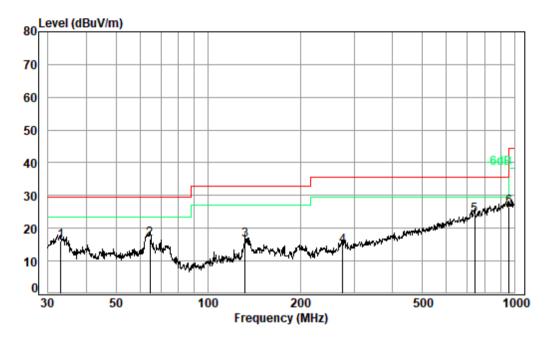


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Test Mode: 04; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 02949AT

Test Mode: 04

	HOUC. OT								
		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	32.979	31.84	16.26	0.41	32.50	16.01	29.50	-13.49	QP
2	64.659	32.54	16.20	0.57	32.47	16.84	29.50	-12.66	QP
3	132.221	31.91	15.99	0.85	32.40	16.35	33.00	-16.65	QP
4	275.157	28.30	17.15	1.34	32.32	14.47	35.60	-21.13	QP
5 pp	742.259	28.18	25.77	2.33	32.17	24.11	35.60	-11.49	QP
6	962.162	26.69	28.31	2.64	31.28	26.36	44.40	-18.04	OP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m; L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
46.34	14.23	5.15	17.15	24.69	40.00	-15.31	Н
58.203	13.51	4.74	15.79	23.97	40.00	-16.03	Н
162.041	14.79	5.49	18.30	25.25	43.50	-18.25	Н
199.986	16.13	6.40	21.35	26.59	43.50	-16.91	Н
704.226	24.57	16.92	56.41	35.03	46.00	-10.97	Н
958.794	29.58	30.13	100.43	40.04	46.00	-5.96	Н
32.979	16.01	6.32	21.06	26.47	40.00	-13.53	V
64.659	16.84	6.95	23.17	27.30	40.00	-12.70	V
132.221	16.35	6.57	21.90	26.81	43.50	-16.69	V
275.157	14.47	5.29	17.64	24.93	46.00	-21.07	V
742.259	24.11	16.05	53.50	34.57	46.00	-11.43	V
962.162	26.36	20.80	69.32	36.82	54.00	-17.18	V



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7.9 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.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 69.5 % RH Atmospheric Pressure: 1000 mbar



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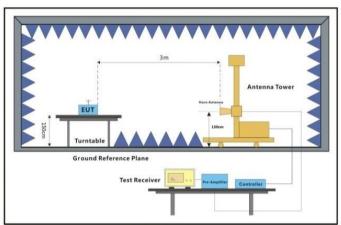
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7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



Above 1GHz



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7.9.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 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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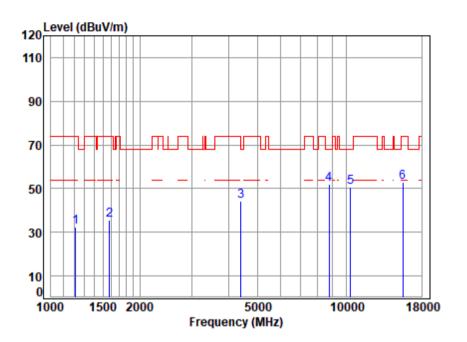


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5180 TX RSE Note : 5G WIFI 11A

		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	1213.677	3.61	24.43	37.67	42.09	32.46	74.00	-41.54	peak
2	1578.822	4.17	26.25	36.68	41.87	35.61	74.00	-38.39	peak
3	4405.090	7.06	33.50	34.61	38.42	44.37	68.20	-23.83	peak
4	q 8764.146	11.51	36.70	35.63	39.35	51.93	68.20	-16.27	peak
5	10360.000	12.73	37.46	35.74	36.21	50.66	68.20	-17.54	peak
6	15540.000	14.23	40.94	37.47	35.12	52.82	74.00	-21.18	peak



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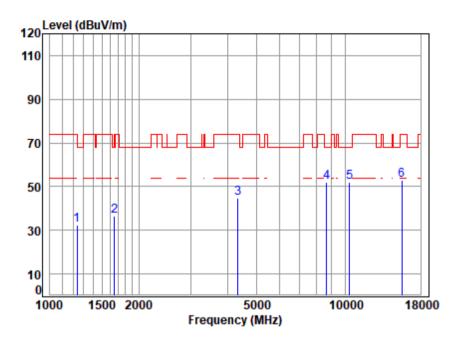


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Test Mode: 04: Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5180 TX RSE : 5G WIFI 11A Note

00		AATI T	114						
		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	1234.909	3.64	24.47	37.61	41.88	32.38	74.00	-41.62	peak
2	1653.550	4.27	26.71	36.51	42.07	36.54	68.20	-31.66	peak
3	4341.886	7.02	33.60	34.57	38.87	44.92	74.00	-29.08	peak
4	8638.399	11.29	36.60	35.71	39.72	51.90	68.20	-16.30	peak
5	q10360.000	12.73	37.46	35.74	37.72	52.17	68.20	-16.03	peak
6	15540.000	14.23	40.94	37.47	35.15	52.85	74.00	-21.15	peak



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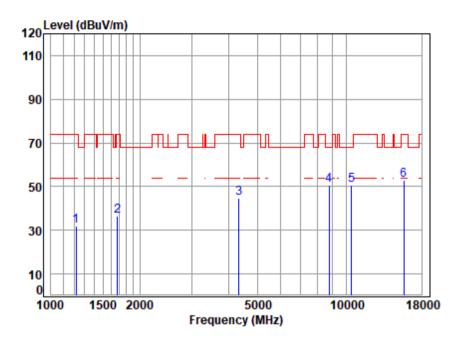


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5220 TX RSE Note : 5G WIFI 11A

		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	1217.190	3.61	24.43	37.66	41.72	32.10	74.00	-41.90	peak
2	1682.477	4.31	26.77	36.44	41.88	36.52	74.00	-37.48	peak
3	4341.886	7.02	33.60	34.57	38.74	44.79	74.00	-29.21	peak
4	8738.852	11.47	36.70	35.65	38.06	50.58	68.20	-17.62	peak
5	q10440.000	12.75	37.50	35.77	36.36	50.84	68.20	-17.36	peak
6	15660.000	14.27	41.06	37.52	35.34	53.15	74.00	-20.85	peak



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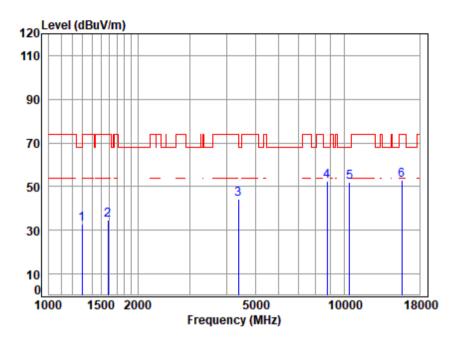


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5220 TX RSE Note : 5G WIFI 11A

•••		****							
		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	1293.359	3.74	24.67	37.43	41.89	32.87	68.20	-35.33	peak
2	1587.975	4.18	26.36	36.66	40.68	34.56	74.00	-39.44	peak
3	4379.699	7.04	33.54	34.59	38.30	44.29	74.00	-29.71	peak
4	q 8764.146	11.51	36.70	35.63	39.73	52.31	68.20	-15.89	peak
5	10440.000	12.75	37.50	35.77	37.62	52.10	68.20	-16.10	peak
6	15660.000	14.27	41.06	37.52	35.02	52.83	74.00	-21.17	peak



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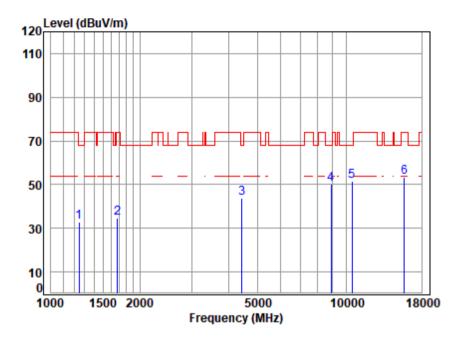


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5240 TX RSE Note : 5G WIFI 11A

		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	1245.663	3.66	24.49	37.57	42.47	33.05	68.20	-35.15	peak
2	1677.621	4.30	26.76	36.45	40.25	34.86	74.00	-39.14	peak
3	4443.453	7.09	33.50	34.64	38.04	43.99	68.20	-24.21	peak
4	8891.725	11.73	36.70	35.56	37.23	50.10	68.20	-18.10	peak
5 (q10480.000	12.76	37.50	35.79	36.92	51.39	68.20	-16.81	peak
6	15720.000	14.29	41.14	37.54	35.31	53.20	74.00	-20.80	peak



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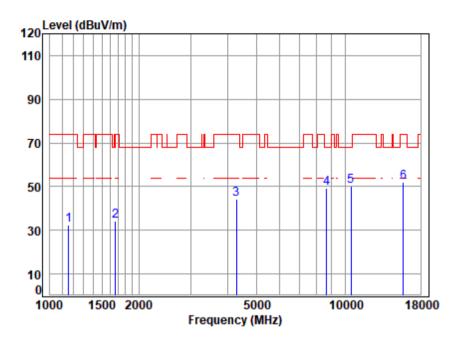


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5240 TX RSE Note : 5G WIFT 11A

000		AATI T	114						
		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	1158.828	3.51	24.24	37.84	42.57	32.48	74.00	-41.52	peak
2	1667.951	4.29	26.74	36.47	39.84	34.40	74.00	-39.60	peak
3	4279.589	6.98	33.60	34.53	38.24	44.29	74.00	-29.71	peak
4	8638.399	11.29	36.60	35.71	36.90	49.08	68.20	-19.12	peak
5	q10480.000	12.76	37.50	35.79	35.82	50.29	68.20	-17.91	peak
6	15720.000	14.29	41.14	37.54	34.26	52.15	74.00	-21.85	peak



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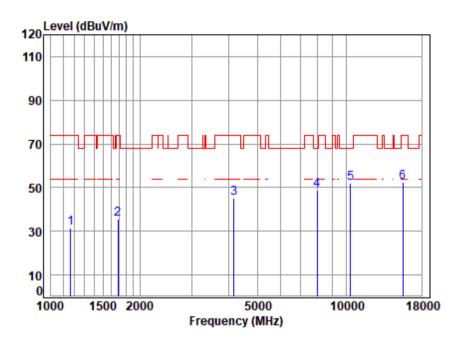


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5180 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1165.546	3.52	24.26	37.82	41.59	31.55	74.00	-42.45	peak
2	1687.347	4.31	26.77	36.43	41.00	35.65	74.00	-38.35	peak
3	4169.698	6.90	33.22	34.45	39.38	45.05	74.00	-28.95	peak
4	7989.893	10.09	36.20	36.09	38.78	48.98	68.20	-19.22	peak
5	q10360.000	12.73	37.46	35.74	37.48	51.93	68.20	-16.27	peak
6	15540.000	14.23	40.94	37.47	34.63	52.33	74.00	-21.67	peak



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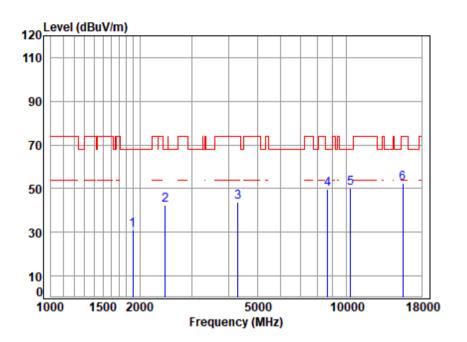


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5180 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1894.154	4.56	27.39	35.99	35.08	31.04	68.20	-37.16	Peak	
2	2442.751	5.12	29.06	35.62	43.77	42.33	68.20	-25.87	Peak	
3	4304.400	6.99	33.60	34.54	37.69	43.74	74.00	-30.26	peak	
4	8663.404	11.33	36.63	35.69	37.53	49.80	68.20	-18.40	peak	
5	q10360.000	12.73	37.46	35.74	35.65	50.10	68.20	-18.10	peak	
6	15540.000	14.23	40.94	37.47	34.80	52.50	74.00	-21.50	peak	



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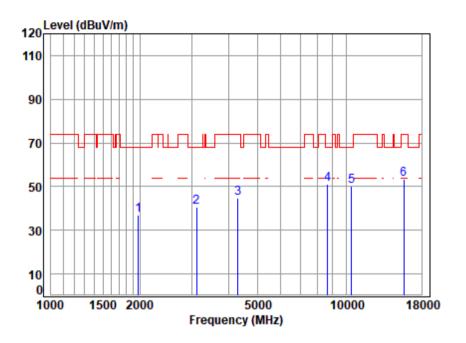


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5220 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1978.082	4.66	27.93	35.83	40.40	37.16	68.20	-31.04	Peak	
2	3114.025	5.74	31.40	35.30	38.59	40.43	68.20	-27.77	Peak	
3	4304.400	6.99	33.60	34.54	38.49	44.54	74.00	-29.46	peak	
4	q 8663.404	11.33	36.63	35.69	38.93	51.20	68.20	-17.00	peak	
5	10440.000	12.75	37.50	35.77	35.91	50.39	68.20	-17.81	peak	
	15660.000									



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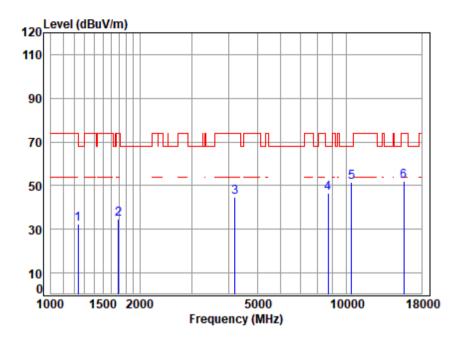


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5220 TX RSE : 5G WIFI 11N20 Note

000		AATIT	111120						
		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	1234.909	3.64	24.47	37.61	42.09	32.59	74.00	-41.41	peak
2	1692.231	4.32	26.78	36.42	40.17	34.85	74.00	-39.15	peak
3	4193.872	6.92	33.36	34.47	38.86	44.67	74.00	-29.33	peak
4	8688.480	11.38	36.68	35.68	34.34	46.72	68.20	-21.48	peak
5	q10440.000	12.75	37.50	35.77	36.87	51.35	68.20	-16.85	peak
6	15660.000	14.27	41.06	37.52	34.11	51.92	74.00	-22.08	peak



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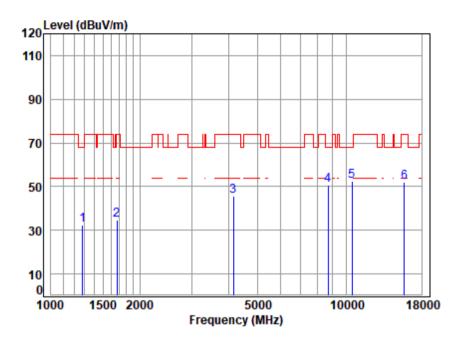


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5240 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1282.193	3.72	24.63	37.46	41.37	32.26	68.20	-35.94	peak
2	1672.779	4.30	26.75	36.46	40.17	34.76	74.00	-39.24	peak
3	4157.664	6.89	33.15	34.44	40.07	45.67	74.00	-28.33	peak
4	8688.480	11.38	36.68	35.68	38.32	50.70	68.20	-17.50	peak
5	q10480.000	12.76	37.50	35.79	38.02	52.49	68.20	-15.71	peak
6	15720.000	14.29	41.14	37.54	34.25	52.14	74.00	-21.86	peak



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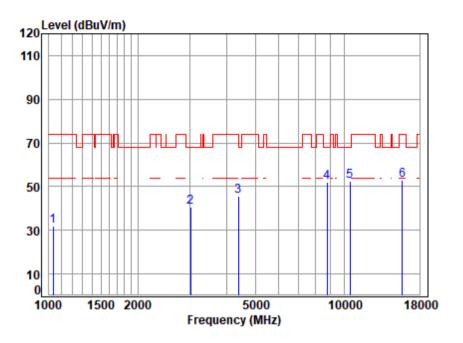


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5240 TX RSE Note : 5G WIFI 11N20

00		****	111120						
		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	1032.305	3.26	24.61	38.28	42.22	31.81	74.00	-42.19	Peak
2	3016.575	5.60	30.97	35.43	39.60	40.74	68.20	-27.46	Peak
3	4379.699	7.04	33.54	34.59	39.69	45.68	74.00	-28.32	peak
4	8738.852	11.47	36.70	35.65	39.54	52.06	68.20	-16.14	peak
5	q10480.000	12.76	37.50	35.79	37.96	52.43	68.20	-15.77	peak
6	15720.000	14.29	41.14	37.54	34.82	52.71	74.00	-21.29	peak



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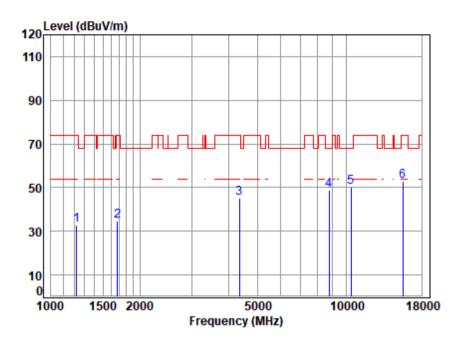


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Report No.: SZCR230900294905

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5190 TX RSE Note : 5G WIFI 11N40

~ ~ ~		***	111110						
		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	1224.247	3.62	24.45	37.64	42.23	32.66	74.00	-41.34	peak
2	1682.477	4.31	26.77	36.44	40.08	34.72	74.00	-39.28	peak
3	4354.454	7.03	33.59	34.58	39.19	45.23	74.00	-28.77	peak
4	8738.852	11.47	36.70	35.65	36.23	48.75	68.20	-19.45	peak
5	q10380.000	12.74	37.48	35.74	35.52	50.00	68.20	-18.20	peak
6	15570.000	14.24	40.97	37.48	35.26	52.99	74.00	-21.01	peak



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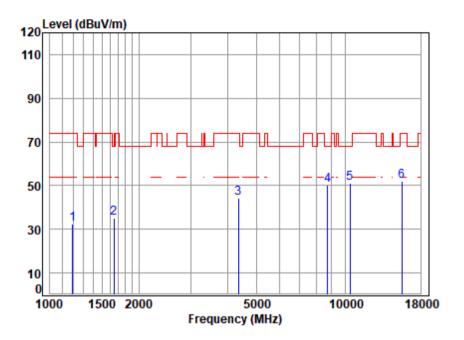


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294905

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5190 TX RSE Note : 5G WIFI 11N40

00		****	111170						
		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	1192.811	3.57	24.37	37.74	41.98	32.18	74.00	-41.82	peak
2	1648.778	4.26	26.70	36.52	40.54	34.98	68.20	-33.22	peak
3	4354.454	7.03	33.59	34.58	37.99	44.03	74.00	-29.97	peak
4	8713.630	11.42	36.70	35.66	37.88	50.34	68.20	-17.86	peak
5	q10380.000	12.74	37.48	35.74	36.64	51.12	68.20	-17.08	peak
6	15570.000	14.24	40.97	37.48	34.16	51.89	74.00	-22.11	peak



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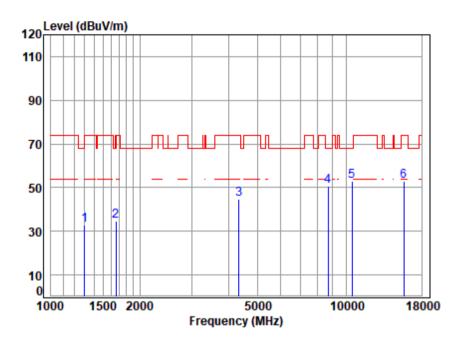


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Report No.: SZCR230900294905

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5230 TX RSE Note : 5G 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	1300.858	3.76	24.70	37.41	41.90	32.95	74.00	-41.05	peak
2	1663.137	4.28	26.73	36.48	40.17	34.70	74.00	-39.30	peak
3	4329.354	7.01	33.60	34.56	38.69	44.74	74.00	-29.26	peak
4	8688.480	11.38	36.68	35.68	38.18	50.56	68.20	-17.64	peak
5	q10460.000	12.76	37.50	35.78	38.49	52.97	68.20	-15.23	peak
6	15690.000	14.28	41.09	37.53	35.14	52.98	74.00	-21.02	peak



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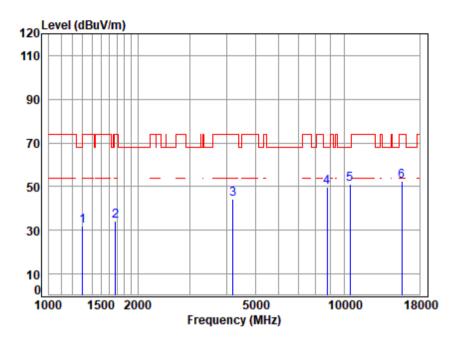


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Report No.: SZCR230900294905

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

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

	****	111170						
	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	
1300.858	3.76	24.70	37.41	41.00	32.05	74.00	-41.95	peak
1677.621	4.30	26.76	36.45	39.60	34.21	74.00	-39.79	peak
4206.011	6.93	33.42	34.48	38.52	44.39	74.00	-29.61	peak
8764.146	11.51	36.70	35.63	37.24	49.82	68.20	-18.38	peak
q10460.000	12.76	37.50	35.78	36.41	50.89	68.20	-17.31	peak
15690.000	14.28	41.09	37.53	34.64	52.48	74.00	-21.52	peak
	MHz 1300.858 1677.621 4206.011 8764.146 q10460.000	Freq Loss MHz dB 1300.858 3.76 1677.621 4.30 4206.011 6.93 8764.146 11.51 q10460.000 12.76	Freq Loss Factor MHz dB dB/m 1300.858 3.76 24.70 1677.621 4.30 26.76 4206.011 6.93 33.42 8764.146 11.51 36.70 q10460.000 12.76 37.50	Freq Loss Factor Factor MHz dB dB/m dB 1300.858 3.76 24.70 37.41 1677.621 4.30 26.76 36.45 4206.011 6.93 33.42 34.48 8764.146 11.51 36.70 35.63 q10460.000 12.76 37.50 35.78	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1300.858 3.76 24.70 37.41 41.00 1677.621 4.30 26.76 36.45 39.60 4206.011 6.93 33.42 34.48 38.52 8764.146 11.51 36.70 35.63 37.24 q10460.000 12.76 37.50 35.78 36.41	Freq Loss Factor Factor Level Level MHz dB dB MBuV dBuV/m 1300.858 3.76 24.70 37.41 41.00 32.05 1677.621 4.30 26.76 36.45 39.60 34.21 4206.011 6.93 33.42 34.48 38.52 44.39 8764.146 11.51 36.70 35.63 37.24 49.82 q10460.000 12.76 37.50 35.78 36.41 50.89	Freq Loss Factor Factor Level Level Line MHz dB dB dBuV dBuV/m dBuV/m 1300.858 3.76 24.70 37.41 41.00 32.05 74.00 1677.621 4.30 26.76 36.45 39.60 34.21 74.00 4206.011 6.93 33.42 34.48 38.52 44.39 74.00 8764.146 11.51 36.70 35.63 37.24 49.82 68.20 q10460.000 12.76 37.50 35.78 36.41 50.89 68.20	



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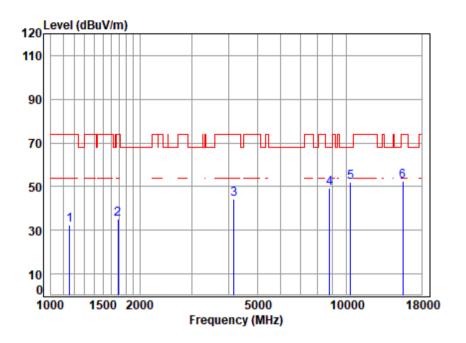


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5180 TX RSE

Note : 5G WIFI 11AC20

000		****	TIMOLO						
		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	1158.828	3.51	24.24	37.84	42.42	32.33	74.00	-41.67	peak
2	1687.347	4.31	26.77	36.43	40.59	35.24	74.00	-38.76	peak
3	4169.698	6.90	33.22	34.45	38.67	44.34	74.00	-29.66	peak
4	8789.516	11.55	36.70	35.62	36.69	49.32	68.20	-18.88	peak
5	q10360.000	12.73	37.46	35.74	37.79	52.24	68.20	-15.96	peak
6	15540.000	14.23	40.94	37.47	34.69	52.39	74.00	-21.61	peak



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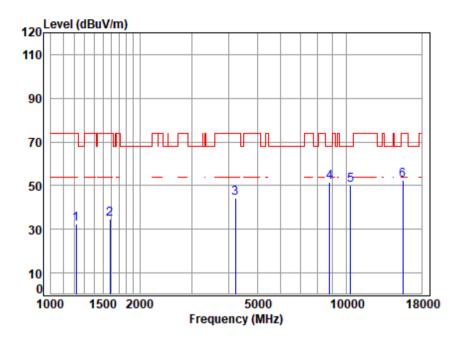


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5180 TX RSE

Note : 5G WIFI 11AC20

•		***	TIMELU						
		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	1217.190	3.61	24.43	37.66	42.11	32.49	74.00	-41.51	peak
2	1583.392	4.18	26.30	36.67	41.05	34.86	74.00	-39.14	peak
3	4218.186	6.93	33.47	34.48	38.35	44.27	74.00	-29.73	peak
4	q 8789.516	11.55	36.70	35.62	38.82	51.45	68.20	-16.75	peak
5	10360.000	12.73	37.46	35.74	35.68	50.13	68.20	-18.07	peak
6	15540.000	14.23	40.94	37.47	34.73	52.43	74.00	-21.57	peak



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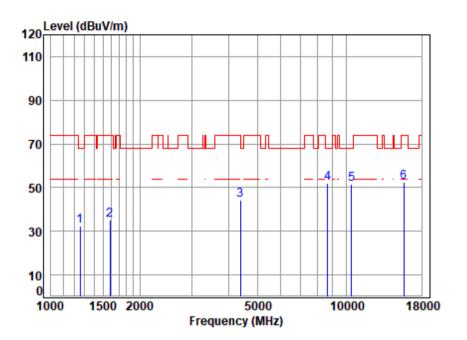


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5220 TX RSE Note : 5G WIFI 11AC20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1256.512	3.68	24.53	37.54	41.75	32.42	68.20	-35.78	peak
2	1587.975	4.18	26.36	36.66	41.05	34.93	74.00	-39.07	peak
3	4379.699	7.04	33.54	34.59	38.10	44.09	74.00	-29.91	peak
4	q 8638.399	11.29	36.60	35.71	39.61	51.79	68.20	-16.41	peak
5	10440.000	12.75	37.50	35.77	36.97	51.45	68.20	-16.75	peak
6	15660.000	14.27	41.06	37.52	34.88	52.69	74.00	-21.31	peak



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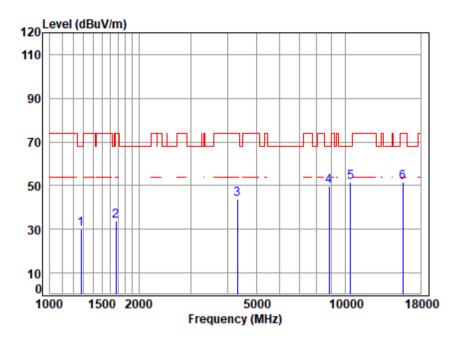


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5220 TX RSE

Note : 5G WIFI 11AC20

~ ~ ~		***	TIMELU						
		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	1274.802	3.71	24.60	37.49	39.41	30.23	68.20	-37.97	peak
2	1672.779	4.30	26.75	36.46	39.11	33.70	74.00	-40.30	peak
3	4316.859	7.00	33.60	34.55	37.72	43.77	74.00	-30.23	peak
4	8814.957	11.60	36.70	35.60	36.83	49.53	68.20	-18.67	peak
5	q10440.000	12.75	37.50	35.77	37.16	51.64	68.20	-16.56	peak
6	15660.000	14.27	41.06	37.52	33.61	51.42	74.00	-22.58	peak



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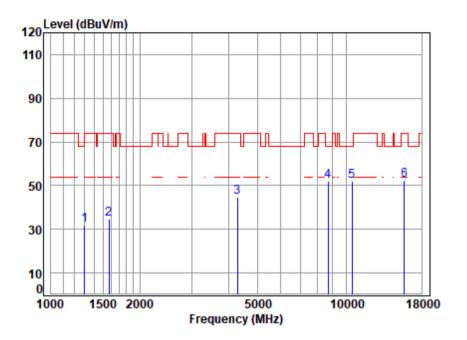


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5240 TX RSE Note : 5G WIFI 11AC20

> Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Line Limit Remark Level Level dBuV dBuV/m dBuV/m MHz dB dB/m dB dB

1	1300.858	3.76	24.70	37.41	40.99	32.04	74.00 -41.96 peak
2	1574.265	4.17	26.19	36.69	41.23	34.90	74.00 -39.10 peak
3	4291.977	6.99	33.60	34.54	38.60	44.65	74.00 -29.35 peak
4	8688.480	11.38	36.68	35.68	39.58	51.96	68.20 -16.24 peak
5	q10480.000	12.76	37.50	35.79	37.60	52.07	68.20 -16.13 peak
6	15720.000	14.29	41.14	37.54	34.64	52.53	74.00 -21.47 peak



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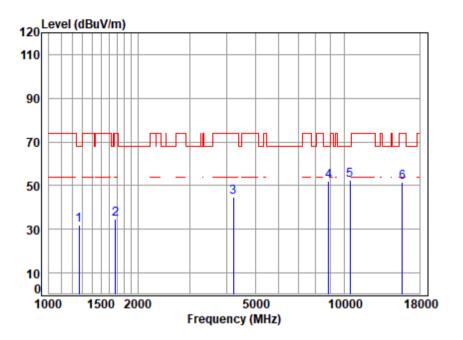


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5240 TX RSE

Note : 5G WIFI 11AC20

~ ~ ~		***	TIMELU						
		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	1267.454	3.70	24.57	37.51	41.32	32.08	68.20	-36.12	peak
2	1682.477	4.31	26.77	36.44	40.13	34.77	74.00	-39.23	peak
3	4218.186	6.93	33.47	34.48	38.62	44.54	74.00	-29.46	peak
4	8840.473	11.64	36.70	35.59	39.32	52.07	68.20	-16.13	peak
5	q10480.000	12.76	37.50	35.79	37.89	52.36	68.20	-15.84	peak
6	15720.000	14.29	41.14	37.54	33.79	51.68	74.00	-22.32	peak



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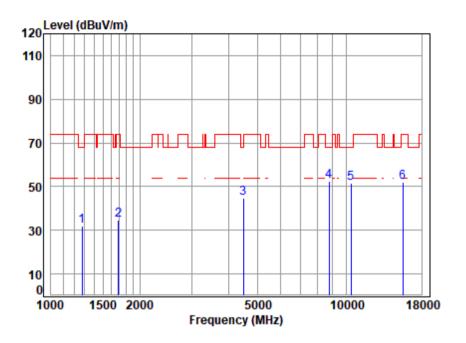


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Test Mode: 04: Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5190 TX RSE Note : 5G WIFI 11AC40

Ant Preamn Limit Road Oven

		Capie	AIIC	rrealiip	Neau		LIMIT	over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1274.802	3.71	24.60	37.49	41.10	31.92	68.20	-36.28	peak	
2	1692.231	4.32	26.78	36.42	40.21	34.89	74.00	-39.11	peak	
3	4482.150	7.11	33.50	34.66	38.72	44.67	68.20	-23.53	peak	
4	q 8764.146	11.51	36.70	35.63	39.97	52.55	68.20	-15.65	peak	
5	10380.000	12.74	37.48	35.74	37.17	51.65	68.20	-16.55	peak	
6	15570.000	14.24	40.97	37.48	34.13	51.86	74.00	-22.14	peak	



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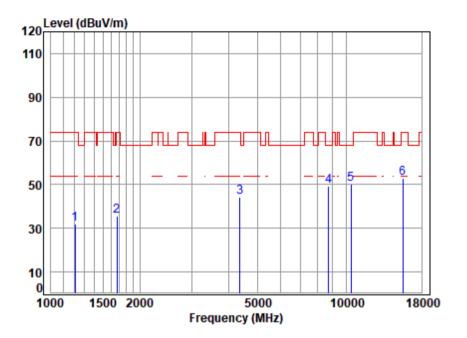


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294905

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Test Mode: 04: Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5190 TX RSE

: 5G WIFI 11AC40 Note

000		MATIT	TIACTO						
		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	1206.682	3.59	24.41	37.69	41.75	32.06	74.00	-41.94	peak
2	1672.779	4.30	26.75	36.46	40.81	35.40	74.00	-38.60	peak
3	4367.058	7.04	33.57	34.59	38.40	44.42	74.00	-29.58	peak
4	8713.630	11.42	36.70	35.66	36.94	49.40	68.20	-18.80	peak
5	q10380.000	12.74	37.48	35.74	35.86	50.34	68.20	-17.86	peak
6	15570.000	14.24	40.97	37.48	35.08	52.81	74.00	-21.19	peak



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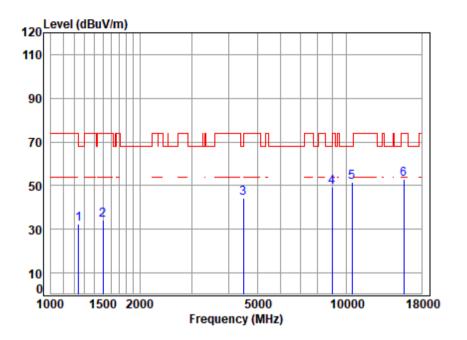


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294905

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5230 TX RSE

: 5G WIFI 11AC40 Note

WCC.		AATIT	TIACTO						
		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	1242.068	3.66	24.48	37.58	41.62	32.18	68.20	-36.02	peak
2	1503.119	4.07	25.43	36.87	41.62	34.25	74.00	-39.75	peak
3	4495.125	7.12	33.50	34.67	38.37	44.32	68.20	-23.88	peak
4	8943.274	11.82	36.70	35.53	36.49	49.48	68.20	-18.72	peak
5	q10460.000	12.76	37.50	35.78	36.93	51.41	68.20	-16.79	peak
6	15690.000	14.28	41.09	37.53	35.13	52.97	74.00	-21.03	peak



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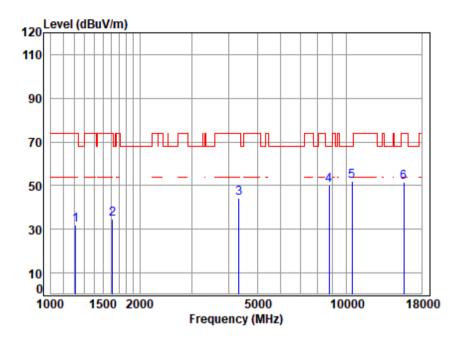


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294905

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Test Mode: 04: Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5230 TX RSE Note : 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1213.677	3.61	24.43	37.67	41.67	32.04	74.00	-41.96	peak
2									•
3	4341.886								•
4	8764.146	11.51	36.70	35.63	37.63	50.21	68.20	-17.99	peak
5	q10460.000	12.76	37.50	35.78	37.39	51.87	68.20	-16.33	peak
	15690.000								•



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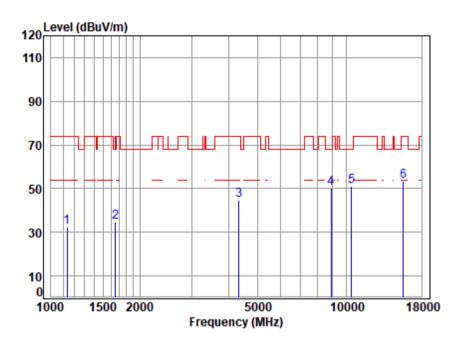


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Report No.: SZCR230900294905

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Test Mode: 04: Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5210 TX RSE

Note : 5G WIFI 11AC80

		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	1135.617	3.46	24.14	37.92	42.82	32.50	74.00	-41.50	peak
2	1653.550	4.27	26.71	36.51	40.03	34.50	68.20	-33.70	peak
3	4329.354	7.01	33.60	34.56	38.49	44.54	74.00	-29.46	peak
4	8891.725	11.73	36.70	35.56	37.23	50.10	68.20	-18.10	peak
5	q10420.000	12.75	37.50	35.76	36.52	51.01	68.20	-17.19	peak
6	15630.000	14.26	41.03	37.50	35.39	53.18	74.00	-20.82	peak



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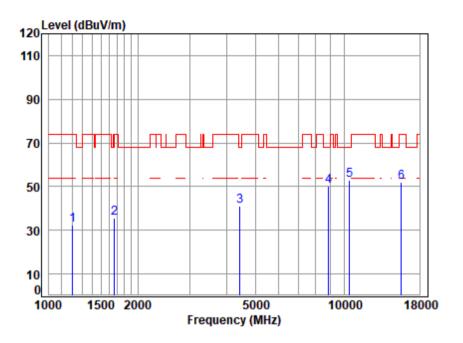


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294905

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Test Mode: 04: Polarity: Vertical: Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5210 TX RSE

Note : 5G WIFI 11AC80

	***	11/1000						
	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	
1203.199	3.59	24.41	37.70	41.99	32.29	74.00	-41.71	peak
1667.951	4.29	26.74	36.47	41.15	35.71	74.00	-38.29	peak
4443.453	7.09	33.50	34.64	35.26	41.21	68.20	-26.99	peak
8866.062	11.69	36.70	35.58	37.20	50.01	68.20	-18.19	peak
								-
15630.000	14.26	41.03	37.50	34.21	52.00	74.00	-22.00	peak
	MHz 1203.199 1667.951 4443.453 8866.062 q10420.000	Freq Loss MHz dB 1203.199 3.59 1667.951 4.29 4443.453 7.09 8866.062 11.69 q10420.000 12.75	Freq Loss Factor MHz dB dB/m 1203.199 3.59 24.41 1667.951 4.29 26.74 4443.453 7.09 33.50 8866.062 11.69 36.70 q10420.000 12.75 37.50	Freq Loss Factor Factor MHz dB dB/m dB 1203.199 3.59 24.41 37.70 1667.951 4.29 26.74 36.47 4443.453 7.09 33.50 34.64 8866.062 11.69 36.70 35.58 q10420.000 12.75 37.50 35.76	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1203.199 3.59 24.41 37.70 41.99 1667.951 4.29 26.74 36.47 41.15 4443.453 7.09 33.50 34.64 35.26 8866.062 11.69 36.70 35.58 37.20 q10420.000 12.75 37.50 35.76 38.31	Freq Loss Factor Factor Level Level MHz dB dB MBuV dBuV/m 1203.199 3.59 24.41 37.70 41.99 32.29 1667.951 4.29 26.74 36.47 41.15 35.71 4443.453 7.09 33.50 34.64 35.26 41.21 8866.062 11.69 36.70 35.58 37.20 50.01 q10420.000 12.75 37.50 35.76 38.31 52.80	Freq Loss Factor Factor Level Level Line MHz dB dB dBuV dBuV/m dBuV/m 1203.199 3.59 24.41 37.70 41.99 32.29 74.00 1667.951 4.29 26.74 36.47 41.15 35.71 74.00 4443.453 7.09 33.50 34.64 35.26 41.21 68.20 8866.062 11.69 36.70 35.58 37.20 50.01 68.20 q10420.000 12.75 37.50 35.76 38.31 52.80 68.20	1203.199 3.59 24.41 37.70 41.99 32.29 74.00 -41.71 1667.951 4.29 26.74 36.47 41.15 35.71 74.00 -38.29



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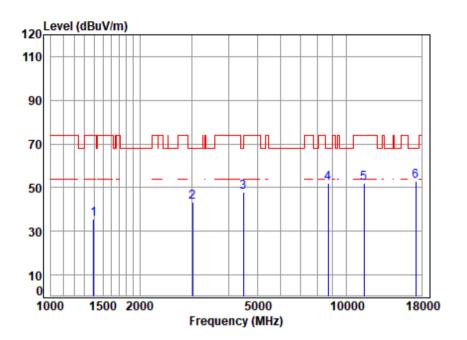


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294905

Page: 64 of 233

Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5745 TX RSE Note : 5G WIFI 11A

000		****	1177						
		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	1394.300	3.90	24.99	37.15	43.66	35.40	74.00	-38.60	peak
2	3016.575	5.60	30.97	35.43	42.24	43.38	68.20	-24.82	Peak
3	4495.125	7.12	33.50	34.67	41.80	47.75	68.20	-20.45	peak
4	8688.480	11.38	36.68	35.68	39.72	52.10	68.20	-16.10	peak
5	11490.000	13.00	37.99	36.29	37.44	52.14	74.00	-21.86	peak
6	q17235.000	14.70	43.34	37.46	32.48	53.06	68.20	-15.14	peak



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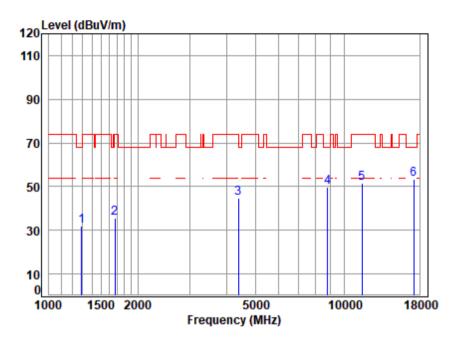


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294905

Page: 65 of 233

Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5745 TX RSE Note : 5G WIFI 11A

~ ~ .		***							
		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	1289.627	3.74	24.66	37.44	41.18	32.14	68.20	-36.06	peak
2	1672.779	4.30	26.75	36.46	41.21	35.80	74.00	-38.20	peak
3	4379.699	7.04	33.54	34.59	38.88	44.87	74.00	-29.13	peak
4	8789.516	11.55	36.70	35.62	37.24	49.87	68.20	-18.33	peak
5	11490.000	13.00	37.99	36.29	36.77	51.47	74.00	-22.53	peak
	q17235.000								



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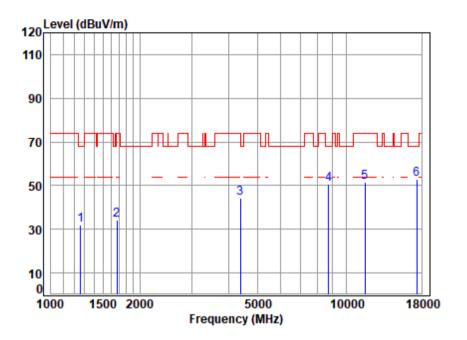


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5785 TX RSE Note : 5G WIFI 11A

	****	117						
	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	
1260.149	3.69	24.54	37.53	41.13	31.83	68.20	-36.37	peak
1672.779	4.30	26.75	36.46	39.73	34.32	74.00	-39.68	peak
4379.699	7.04	33.54	34.59	38.16	44.15	74.00	-29.85	peak
8713.630	11.42	36.70	35.66	38.10	50.56	68.20	-17.64	peak
11570.000	13.01	38.00	36.34	36.80	51.47	74.00	-22.53	peak
	MHz 1260.149 1672.779 4379.699 8713.630 11570.000	Freq Loss MHz dB 1260.149 3.69 1672.779 4.30 4379.699 7.04 8713.630 11.42 11570.000 13.01	Freq Loss Factor MHz dB dB/m 1260.149 3.69 24.54 1672.779 4.30 26.75 4379.699 7.04 33.54 8713.630 11.42 36.70 11570.000 13.01 38.00	Freq Loss Factor Factor MHz dB dB/m dB 1260.149 3.69 24.54 37.53 1672.779 4.30 26.75 36.46 4379.699 7.04 33.54 34.59 8713.630 11.42 36.70 35.66 11570.000 13.01 38.00 36.34	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1260.149 3.69 24.54 37.53 41.13 1672.779 4.30 26.75 36.46 39.73 4379.699 7.04 33.54 34.59 38.16 8713.630 11.42 36.70 35.66 38.10 11570.000 13.01 38.00 36.34 36.80	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1260.149 3.69 24.54 37.53 41.13 31.83 1672.779 4.30 26.75 36.46 39.73 34.32 4379.699 7.04 33.54 34.59 38.16 44.15 8713.630 11.42 36.70 35.66 38.10 50.56 11570.000 13.01 38.00 36.34 36.80 51.47	Freq Loss Factor Factor Level Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m 1260.149 3.69 24.54 37.53 41.13 31.83 68.20 1672.779 4.30 26.75 36.46 39.73 34.32 74.00 4379.699 7.04 33.54 34.59 38.16 44.15 74.00 8713.630 11.42 36.70 35.66 38.10 50.56 68.20 11570.000 13.01 38.00 36.34 36.80 51.47 74.00	1260.149 3.69 24.54 37.53 41.13 31.83 68.20 -36.37 1672.779 4.30 26.75 36.46 39.73 34.32 74.00 -39.68



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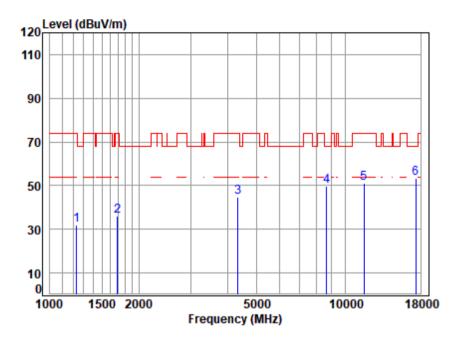


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5785 TX RSE : 5G WIFI 11A Note

000		AATI T	114						
		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	1231.345	3.64	24.46	37.62	41.62	32.10	74.00	-41.90	peak
2	1692.231	4.32	26.78	36.42	41.14	35.82	74.00	-38.18	peak
3	4341.886	7.02	33.60	34.57	38.72	44.77	74.00	-29.23	peak
4	8638.399	11.29	36.60	35.71	37.59	49.77	68.20	-18.43	peak
5	11570.000	13.01	38.00	36.34	36.63	51.30	74.00	-22.70	peak
6	q17355.000	14.77	43.46	37.45	32.44	53.22	68.20	-14.98	peak



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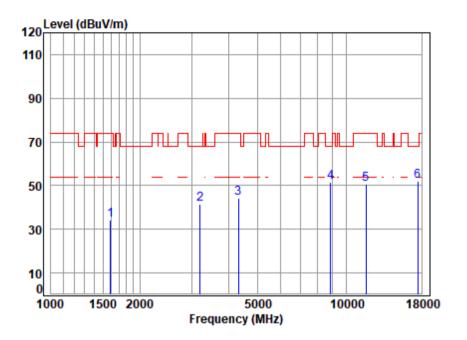


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5825 TX RSE Note : 5G WIFI 11A

000		****							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	4.19	26.41	36.65	40.15	34.10	74.00	-39.90	peak
2	3196.094	5.84	31.49	35.20	39.41	41.54	68.20	-26.66	Peak
3	4316.859	7.00	33.60	34.55	38.31	44.36	74.00	-29.64	peak
4	8840.473	11.64	36.70	35.59	39.04	51.79	68.20	-16.41	peak
5	11650.000	13.03	38.00	36.38	36.17	50.82	74.00	-23.18	peak
6	q17475.000	14.84	43.58	37.44	31.02	52.00	68.20	-16.20	peak



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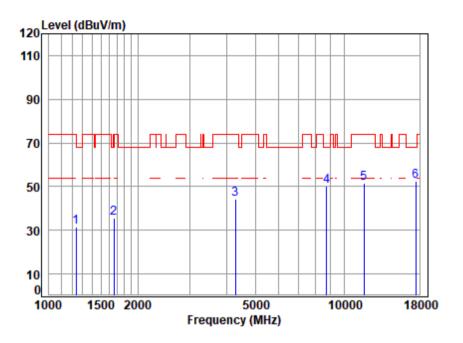


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5825 TX RSE Note : 5G WIFI 11A

00		****	117						
		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	1234.909	3.64	24.47	37.61	40.94	31.44	74.00	-42.56	peak
2	1658.337	4.28	26.72	36.50	40.92	35.42	68.20	-32.78	peak
3	4291.977	6.99	33.60	34.54	38.28	44.33	74.00	-29.67	peak
4	8713.630	11.42	36.70	35.66	37.56	50.02	68.20	-18.18	peak
5	11650.000	13.03	38.00	36.38	36.98	51.63	74.00	-22.37	peak
6	q17475.000	14.84	43.58	37.44	31.60	52.58	68.20	-15.62	peak



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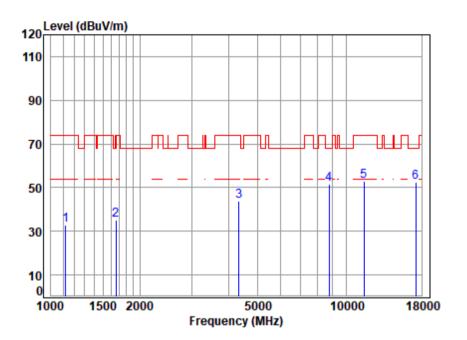


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5745 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1122.563	3.44	24.09	37.96	43.26	32.83	74.00	-41.17	peak
2	1658.337	4.28	26.72	36.50	40.60	35.10	68.20	-33.10	peak
3	4341.886	7.02	33.60	34.57	37.89	43.94	74.00	-30.06	peak
4	8738.852	11.47	36.70	35.65	39.08	51.60	68.20	-16.60	peak
5	11490.000	13.00	37.99	36.29	38.08	52.78	74.00	-21.22	peak
6	q17235.000	14.70	43.34	37.46	31.71	52.29	68.20	-15.91	peak



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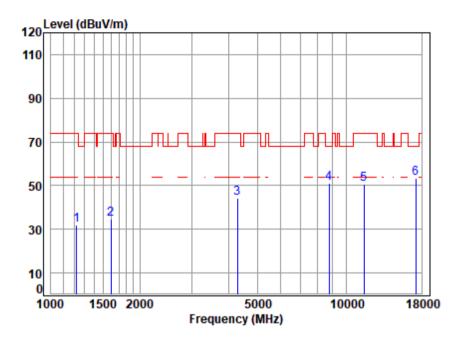


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5745 TX RSE Note : 5G WIFI 11N20

00		****	111120						
		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	1224.247	3.62	24.45	37.64	41.41	31.84	74.00	-42.16	peak
2	1597.181	4.20	26.47	36.64	40.61	34.64	74.00	-39.36	peak
3	4291.977	6.99	33.60	34.54	38.26	44.31	74.00	-29.69	peak
4	8764.146	11.51	36.70	35.63	38.34	50.92	68.20	-17.28	peak
5	11490.000	13.00	37.99	36.29	36.14	50.84	74.00	-23.16	peak
6	q17235.000	14.70	43.34	37.46	32.65	53.23	68.20	-14.97	peak



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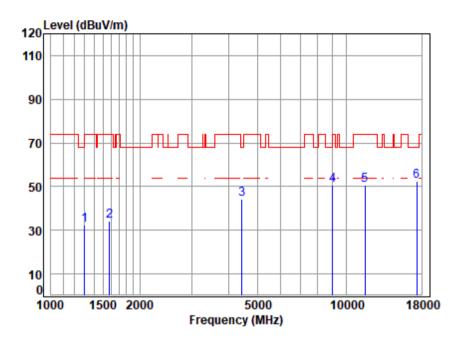


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5785 TX RSE Note : 5G WIFI 11N20

~ ~ .		***	11.420						
		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	1300.858	3.76	24.70	37.41	41.16	32.21	74.00	-41.79	peak
2	1578.822	4.17	26.25	36.68	40.44	34.18	74.00	-39.82	peak
3	4430.628	7.08	33.50	34.63	38.11	44.06	68.20	-24.14	peak
4	8995.123	11.91	36.70	35.50	37.64	50.75	68.20	-17.45	peak
5	11570.000	13.01	38.00	36.34	35.87	50.54	74.00	-23.46	peak
6	q17355.000	14.77	43.46	37.45	31.53	52.31	68.20	-15.89	peak



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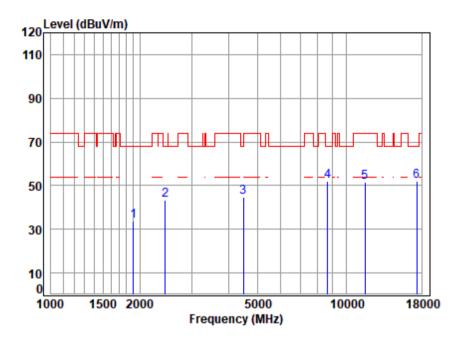


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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5785 TX RSE Note : 5G WIFI 11N20

		****	111120						
		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	1899.636	4.57	27.40	35.98	37.87	33.86	68.20	-34.34	Peak
2	2442.751	5.12	29.06	35.62	44.83	43.39	68.20	-24.81	Peak
3	4495.125	7.12	33.50	34.67	38.71	44.66	68.20	-23.54	peak
4	q 8663.404	11.33	36.63	35.69	39.81	52.08	68.20	-16.12	peak
5	11570.000	13.01	38.00	36.34	36.90	51.57	74.00	-22.43	peak
6	17355.000	14.77	43.46	37.45	31.24	52.02	68.20	-16.18	peak



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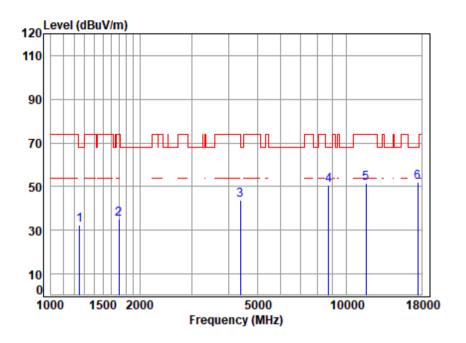


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5825 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	24.51	37.55	41.67	32.30	68.20	-35.90	peak
2	1702.042	4.33	26.80	36.40	40.26	34.99	74.00	-39.01	peak
3	4392.376	7.05	33.52	34.60	37.95	43.92	74.00	-30.08	peak
4	8713.630	11.42	36.70	35.66	38.27	50.73	68.20	-17.47	peak
5	11650.000	13.03	38.00	36.38	36.96	51.61	74.00	-22.39	peak
6	q17475.000	14.84	43.58	37.44	30.91	51.89	68.20	-16.31	peak



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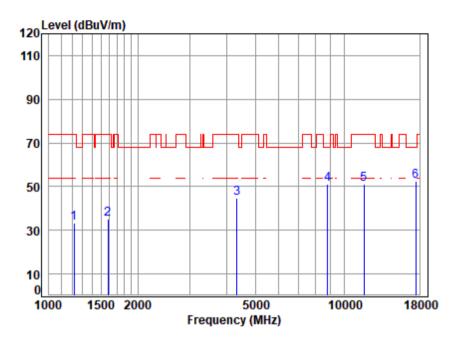


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5825 TX RSE Note : 5G WIFI 11N20

	****	111120						
	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	
1217.190	3.61	24.43	37.66	43.09	33.47	74.00	-40.53	peak
1583.392	4.18	26.30	36.67	41.34	35.15	74.00	-38.85	peak
4329.354	7.01	33.60	34.56	38.73	44.78	74.00	-29.22	peak
8789.516	11.55	36.70	35.62	38.27	50.90	68.20	-17.30	peak
11650.000	13.03	38.00	36.38	36.31	50.96	74.00	-23.04	peak
q17475.000	14.84	43.58	37.44	31.57	52.55	68.20	-15.65	peak
	MHz 1217.190 1583.392 4329.354 8789.516 11650.000	Freq Loss MHz dB 1217.190 3.61 1583.392 4.18 4329.354 7.01 8789.516 11.55 11650.000 13.03	Freq Loss Factor MHz dB dB/m 1217.190 3.61 24.43 1583.392 4.18 26.30 4329.354 7.01 33.60 8789.516 11.55 36.70 11650.000 13.03 38.00	Freq Loss Factor Factor MHz dB dB/m dB 1217.190 3.61 24.43 37.66 1583.392 4.18 26.30 36.67 4329.354 7.01 33.60 34.56 8789.516 11.55 36.70 35.62 11650.000 13.03 38.00 36.38	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1217.190 3.61 24.43 37.66 43.09 1583.392 4.18 26.30 36.67 41.34 4329.354 7.01 33.60 34.56 38.73 8789.516 11.55 36.70 35.62 38.27 11650.000 13.03 38.00 36.38 36.31	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1217.190 3.61 24.43 37.66 43.09 33.47 1583.392 4.18 26.30 36.67 41.34 35.15 4329.354 7.01 33.60 34.56 38.73 44.78 8789.516 11.55 36.70 35.62 38.27 50.90 11650.000 13.03 38.00 36.38 36.31 50.96	Freq Loss Factor Factor Level Level Line MHz dB dB dBuV dBuV/m dBuV/m 1217.190 3.61 24.43 37.66 43.09 33.47 74.00 1583.392 4.18 26.30 36.67 41.34 35.15 74.00 4329.354 7.01 33.60 34.56 38.73 44.78 74.00 8789.516 11.55 36.70 35.62 38.27 50.90 68.20 11650.000 13.03 38.00 36.38 36.31 50.96 74.00	1217.190 3.61 24.43 37.66 43.09 33.47 74.00 -40.53 1583.392 4.18 26.30 36.67 41.34 35.15 74.00 -38.85



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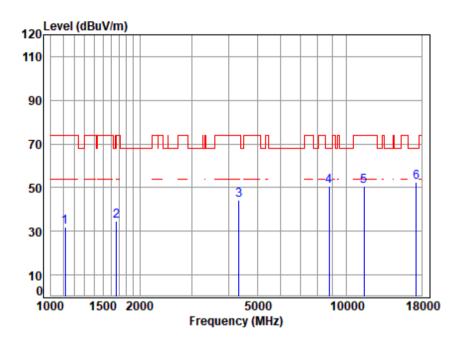


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5755 TX RSE Note : 5G WIFI 11N40

000		****	111110						
		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	1119.323	3.43	24.08	37.98	42.48	32.01	74.00	-41.99	peak
2	1667.951	4.29	26.74	36.47	40.02	34.58	74.00	-39.42	peak
3	4329.354	7.01	33.60	34.56	38.38	44.43	74.00	-29.57	peak
4	8738.852	11.47	36.70	35.65	38.04	50.56	68.20	-17.64	peak
5	11510.000	13.00	38.00	36.30	36.13	50.83	74.00	-23.17	peak
	q17265.000								



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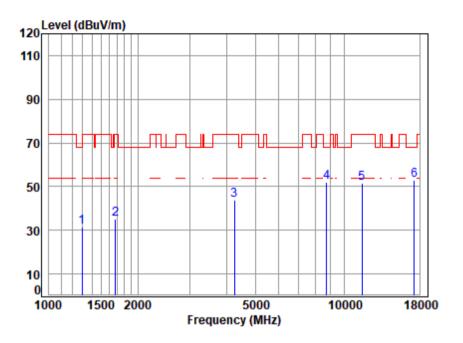


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5755 TX RSE Note : 5G WIFI 11N40

		****	1111-0						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1293.359	3.74	24.67	37.43	40.59	31.57	68.20	-36.63	peak
2	1677.621	4.30	26.76	36.45	40.51	35.12	74.00	-38.88	peak
3	4254.921	6.96	33.60	34.51	37.77	43.82	74.00	-30.18	peak
4	8713.630	11.42	36.70	35.66	39.59	52.05	68.20	-16.15	peak
5	11510.000	13.00	38.00	36.30	37.08	51.78	74.00	-22.22	peak
	q17265.000								



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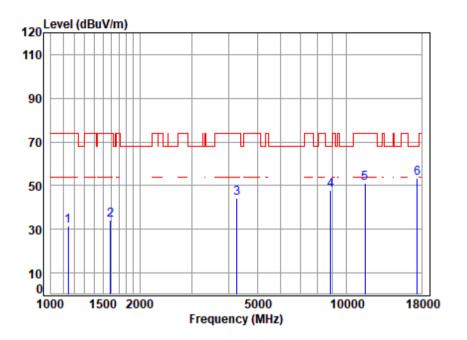


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

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

000		****	111110						
		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	1142.201	3.48	24.17	37.90	41.89	31.64	74.00	-42.36	peak
2	1592.571	4.19	26.41	36.65	40.40	34.35	74.00	-39.65	peak
3	4267.237	6.97	33.60	34.52	38.05	44.10	74.00	-29.90	peak
4	8840.473	11.64	36.70	35.59	35.25	48.00	68.20	-20.20	peak
5	11590.000	13.01	38.00	36.35	36.28	50.94	74.00	-23.06	peak
6	q17385.000	14.79	43.49	37.44	32.54	53.38	68.20	-14.82	peak



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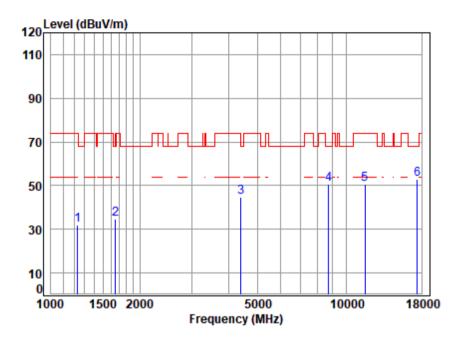


SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

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

	****	111170						
	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	
1231.345	3.64	24.46	37.62	41.67	32.15	74.00	-41.85	peak
1653.550	4.27	26.71	36.51	40.35	34.82	68.20	-33.38	peak
4405.090	7.06	33.50	34.61	38.71	44.66	68.20	-23.54	peak
8713.630	11.42	36.70	35.66	38.15	50.61	68.20	-17.59	peak
11590.000	13.01	38.00	36.35	35.93	50.59	74.00	-23.41	peak
q17385.000	14.79	43.49	37.44	32.01	52.85	68.20	-15.35	peak
	MHz 1231.345 1653.550 4405.090 8713.630 11590.000	Freq Loss MHz dB 1231.345 3.64 1653.550 4.27 4405.090 7.06 8713.630 11.42 11590.000 13.01	Freq Loss Factor MHz dB dB/m 1231.345 3.64 24.46 1653.550 4.27 26.71 4405.090 7.06 33.50 8713.630 11.42 36.70 11590.000 13.01 38.00	Freq Loss Factor Factor MHz dB dB/m dB 1231.345 3.64 24.46 37.62 1653.550 4.27 26.71 36.51 4405.090 7.06 33.50 34.61 8713.630 11.42 36.70 35.66 11590.000 13.01 38.00 36.35	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1231.345 3.64 24.46 37.62 41.67 1653.550 4.27 26.71 36.51 40.35 4405.090 7.06 33.50 34.61 38.71 8713.630 11.42 36.70 35.66 38.15 11590.000 13.01 38.00 36.35 35.93	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1231.345 3.64 24.46 37.62 41.67 32.15 1653.550 4.27 26.71 36.51 40.35 34.82 4405.090 7.06 33.50 34.61 38.71 44.66 8713.630 11.42 36.70 35.66 38.15 50.61 11590.000 13.01 38.00 36.35 35.93 50.59	Freq Loss Factor Factor Level Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m 1231.345 3.64 24.46 37.62 41.67 32.15 74.00 1653.550 4.27 26.71 36.51 40.35 34.82 68.20 4405.090 7.06 33.50 34.61 38.71 44.66 68.20 8713.630 11.42 36.70 35.66 38.15 50.61 68.20 1590.000 13.01 38.00 36.35 35.93 50.59 74.00	1231.345 3.64 24.46 37.62 41.67 32.15 74.00 -41.85 1653.550 4.27 26.71 36.51 40.35 34.82 68.20 -33.38



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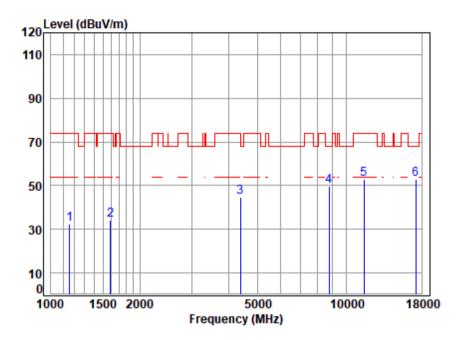


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5745 TX RSE Note : 5G WIFI 11AC20

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

		Cable	Ant	Preamp	Kead		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1158.828	3.51	24.24	37.84	42.45	32.36	74.00	-41.64	peak
2	1592.571	4.19	26.41	36.65	40.22	34.17	74.00	-39.83	peak
3	4379.699	7.04	33.54	34.59	38.53	44.52	74.00	-29.48	peak
4	8764.146	11.51	36.70	35.63	37.03	49.61	68.20	-18.59	peak
5	11490.000	13.00	37.99	36.29	38.03	52.73	74.00	-21.27	peak
6	a17235.000	14.70	43.34	37.46	32.27	52.85	68.20	-15.35	peak



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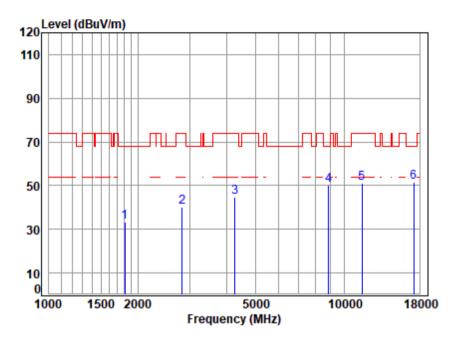


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5745 TX RSE

: 5G WIFI 11AC20 Note

00		AATI T	IIACZU							
		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	1808.551	4.46	27.05	36.17	37.81	33.15	68.20	-35.05	Peak	
2	2830.728	5.45	29.62	35.50	40.73	40.30	74.00	-33.70	Peak	
3	4267.237	6.97	33.60	34.52	38.78	44.83	74.00	-29.17	peak	
4	8840.473	11.64	36.70	35.59	37.51	50.26	68.20	-17.94	peak	
5	11490.000	13.00	37.99	36.29	36.53	51.23	74.00	-22.77	peak	
6	q17235.000	14.70	43.34	37.46	31.15	51.73	68.20	-16.47	peak	



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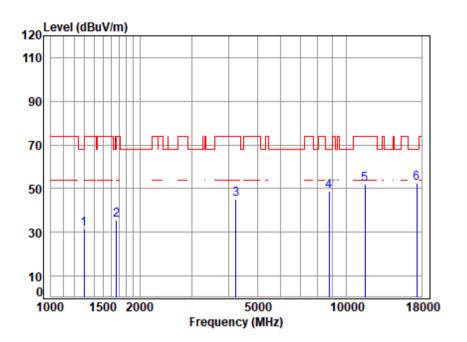


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5785 TX RSE

Note : 5G WIFI 11AC20

		****	TIMELU						
		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	1293.359	3.74	24.67	37.43	40.50	31.48	68.20	-36.72	peak
2	1667.951	4.29	26.74	36.47	40.91	35.47	74.00	-38.53	peak
3	4230.396	6.94	33.52	34.49	39.07	45.04	74.00	-28.96	peak
4	8764.146	11.51	36.70	35.63	36.16	48.74	68.20	-19.46	peak
5	11570.000	13.01	38.00	36.34	37.27	51.94	74.00	-22.06	peak
6	q17355.000	14.77	43.46	37.45	31.67	52.45	68.20	-15.75	peak



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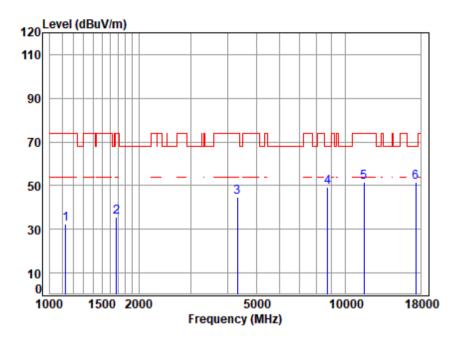


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5785 TX RSE

Note : 5G WIFI 11AC20

00		****	TIMOZO						
		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	1132.340	3.46	24.13	37.93	42.56	32.22	74.00	-41.78	peak
2	1682.477	4.31	26.77	36.44	41.08	35.72	74.00	-38.28	peak
3	4316.859	7.00	33.60	34.55	38.86	44.91	74.00	-29.09	peak
4	8713.630	11.42	36.70	35.66	36.66	49.12	68.20	-19.08	peak
5	11570.000	13.01	38.00	36.34	36.72	51.39	74.00	-22.61	peak
6	q17355.000	14.77	43.46	37.45	30.82	51.60	68.20	-16.60	peak



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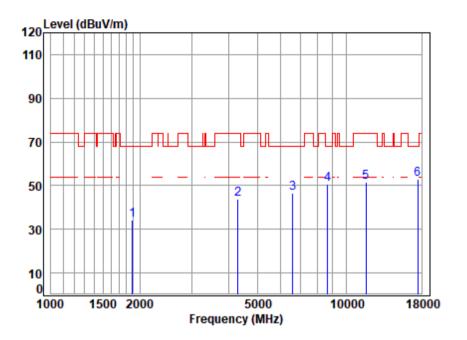


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Horizontal: Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5825 TX RSE : 5G WIFI 11AC20 Note

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1888.687 4.56 27.38 36.01 38.31 34.24 68.20 -33.96 Peak 1 4304.400 6.99 33.60 34.54 37.56 43.61 74.00 -30.39 peak 2 37.80 46.46 68.20 -21.74 Peak 3 6602.265 8.64 35.60 35.58 4 8638.399 11.29 36.60 35.71 38.43 50.61 68.20 -17.59 peak 36.38 36.91 51.56 74.00 -22.44 peak 11650.000 13.03 38.00 6 q17475.000 14.84 43.58 37.44 32.08 53.06 68.20 -15.14 peak



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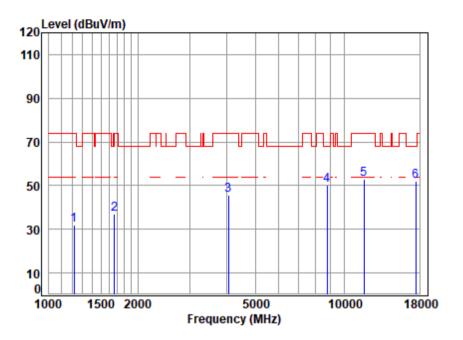


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5825 TX RSE

Note : 5G WIFI 11AC20

		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	1217.190	3.61	24.43	37.66	41.49	31.87	74.00	-42.13	peak
2	1667.951	4.29	26.74	36.47	42.48	37.04	74.00	-36.96	peak
3	4062.629	6.83	32.93	34.38	40.27	45.65	74.00	-28.35	peak
4	8764.146	11.51	36.70	35.63	37.77	50.35	68.20	-17.85	peak
5	11650.000	13.03	38.00	36.38	38.42	53.07	74.00	-20.93	peak
6	q17475.000	14.84	43.58	37.44	31.24	52.22	68.20	-15.98	peak



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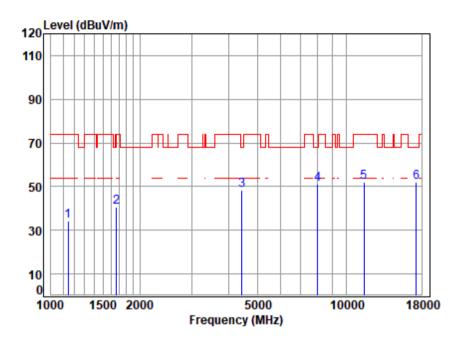


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5755 TX RSE Note : 5G WIFI 11AC40

		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	1145.507	3.48	24.18	37.89	44.54	34.31	74.00	-39.69	peak
2	1667.951	4.29	26.74	36.47	46.10	40.66	74.00	-33.34	peak
3	4430.628	7.08	33.50	34.63	42.60	48.55	68.20	-19.65	peak
4	8013.020	10.13	36.20	36.08	40.90	51.15	68.20	-17.05	peak
5	11510.000	13.00	38.00	36.30	37.43	52.13	74.00	-21.87	peak
6	q17265.000	14.72	43.37	37.46	31.30	51.93	68.20	-16.27	peak



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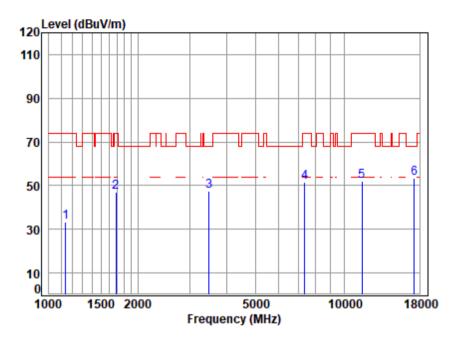


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5755 TX RSE

: 5G WIFI 11AC40 Note

	MATIT	TIACTO						
	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	
1138.904	3.47	24.16	37.91	43.61	33.33	74.00	-40.67	peak
1687.347	4.31	26.77	36.43	52.36	47.01	74.00	-26.99	peak
3485.601	6.21	31.77	34.87	44.55	47.66	68.20	-20.54	peak
7347.474	9.35	35.90	35.98	42.18	51.45	74.00	-22.55	peak
11510.000	13.00	38.00	36.30	37.25	51.95	74.00	-22.05	peak
q17265.000	14.72	43.37	37.46	32.96	53.59	68.20	-14.61	peak
	Freq MHz 1138.904 1687.347 3485.601 7347.474 11510.000	Cable Loss MHz dB 1138.904 3.47 1687.347 4.31 3485.601 6.21 7347.474 9.35 11510.000 13.00	Cable Ant Loss Factor MHz dB dB/m 1138.904 3.47 24.16 1687.347 4.31 26.77 3485.601 6.21 31.77 7347.474 9.35 35.90 11510.000 13.00 38.00	Cable Ant Preamp Loss Factor Factor MHz dB dB/m dB 1138.904 3.47 24.16 37.91 1687.347 4.31 26.77 36.43 3485.601 6.21 31.77 34.87 7347.474 9.35 35.90 35.98 11510.000 13.00 38.00 36.30	Cable Ant Preamp Read Loss Factor Factor Level MHz dB dB/m dB dBuV 1138.904 3.47 24.16 37.91 43.61 1687.347 4.31 26.77 36.43 52.36 3485.601 6.21 31.77 34.87 44.55 7347.474 9.35 35.90 35.98 42.18 11510.000 13.00 38.00 36.30 37.25	Cable Ant Preamp Read Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1138.904 3.47 24.16 37.91 43.61 33.33 1687.347 4.31 26.77 36.43 52.36 47.01 3485.601 6.21 31.77 34.87 44.55 47.66 7347.474 9.35 35.90 35.98 42.18 51.45 11510.000 13.00 38.00 36.30 37.25 51.95	Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1138.904 3.47 24.16 37.91 43.61 33.33 74.00 1687.347 4.31 26.77 36.43 52.36 47.01 74.00 3485.601 6.21 31.77 34.87 44.55 47.66 68.20 7347.474 9.35 35.90 35.98 42.18 51.45 74.00 11510.000 13.00 38.00 36.30 37.25 51.95 74.00	Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit



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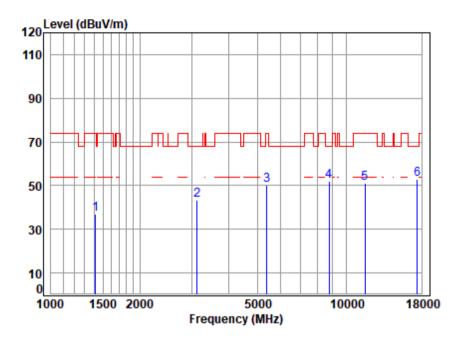


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Test Mode: 05; Polarity: Horizontal: Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5795 TX RSE

Note : 5G WIFI 11AC40

000		****	IIACTO						
		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	1414.597	3.94	25.06	37.09	45.15	37.06	74.00	-36.94	peak
2	3123.039	5.75	31.40	35.29	41.56	43.42	68.20	-24.78	peak
3	5377.354	7.73	34.41	35.00	42.95	50.09	74.00	-23.91	Peak
4	8738.852	11.47	36.70	35.65	39.72	52.24	68.20	-15.96	peak
5	11590.000	13.01	38.00	36.35	36.64	51.30	74.00	-22.70	peak
6	q17385.000	14.79	43.49	37.44	31.96	52.80	68.20	-15.40	peak



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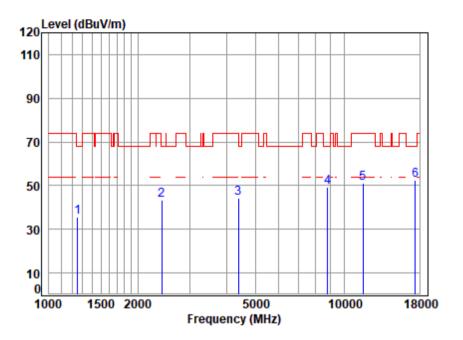


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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5795 TX RSE Note : 5G WIFI 11AC40

		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	1249.269	3.67	24.50	37.56	44.89	35.50	68.20	-32.70	peak	
2	2414.672	5.10	28.89	35.63	45.06	43.42	68.20	-24.78	Peak	
3	4392.376	7.05	33.52	34.60	38.20	44.17	74.00	-29.83	peak	
4	8789.516	11.55	36.70	35.62	36.73	49.36	68.20	-18.84	peak	
5	11590.000	13.01	38.00	36.35	36.55	51.21	74.00	-22.79	peak	
6	q17385.000	14.79	43.49	37.44	31.74	52.58	68.20	-15.62	peak	



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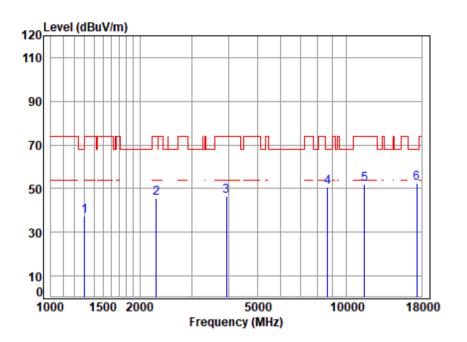


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5775 TX RSE Note : 5G WIFI 11AC80

		cabie	Ant	rreamp	read		LIMIT	over		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB		
1	1300.858	3.76	24.70	37.41	46.53	37.58	74.00	-36.42	peak	
2	2272.466	4.96	28.29	35.68	48.25	45.82	74.00	-28.18	Peak	
3	3935.493	6.71	32.60	34.39	41.63	46.55	74.00	-27.45	peak	
4	8663.404	11.33	36.63	35.69	38.60	50.87	68.20	-17.33	peak	
5	11550.000	13.01	38.00	36.33	37.19	51.87	74.00	-22.13	peak	
6	a17325.000	14.76	43.43	37.45	31.69	52.43	68.20	-15.77	neak	



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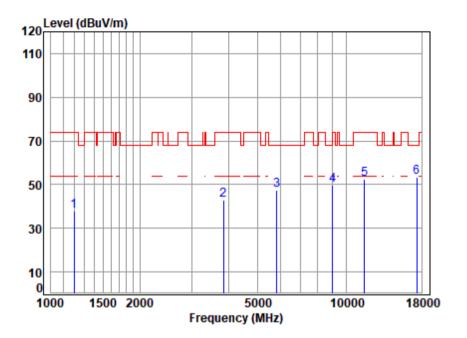


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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

TX RSE Mode : 5775 Note : 5G WIFI 11AC80

		****	11/1000						
		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	1199.726	3.58	24.40	37.71	47.67	37.94	74.00	-36.06	peak
2	3845.537	6.62	32.71	34.48	38.25	43.10	74.00	-30.90	peak
3	5830.640	8.05	34.66	35.03	39.97	47.65	68.20	-20.55	Peak
4	8995.123	11.91	36.70	35.50	36.67	49.78	68.20	-18.42	peak
5	11550.000	13.01	38.00	36.33	37.59	52.27	74.00	-21.73	peak
	q17325.000								



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7.10 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.



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7.10.1 E.U.T. Operation

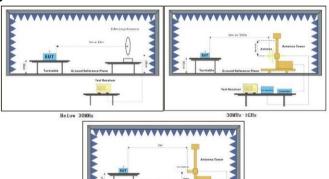
Operating Environment:

Temperature: 23.2 °C Humidity: 70.2 % RH Atmospheric Pressure: 1000 mbar

7.10.2 Test Mode Description

111012 1001	10.2 Test mode Description										
Pre-scan / Final test	Mode Code	Description									
Final test	04	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.									
Final test	05	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.									

7.10.3 Test Setup Diagram







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7.10.4 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.
- i. Repeat above procedures until all frequencies measured was complete.

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



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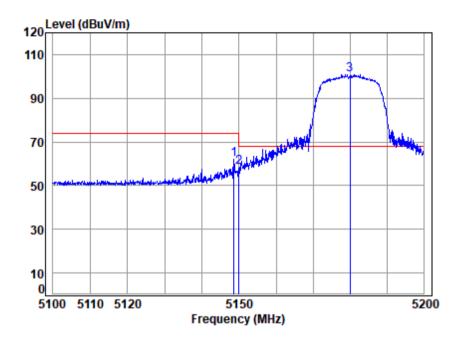


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5180 Band edge

· 5G WTFT 11Δ

	. 50	AATIT	114							
		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	5148.657	7.55	34.00	34.99	55.45	62.01	74.00	-11.99	peak	
2	5149.980	7.55	34.00	34.99	51.81	58.37	74.00	-15.63	peak	
3	a 5180 000	7 57	3/1 00	3/1 00	9/ //7	101 05	68 20	32 85	nook	



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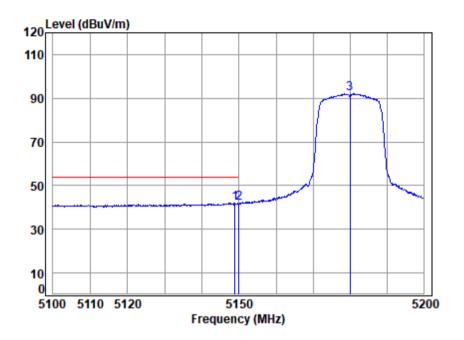


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5180 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
q 5148.857								_	
5149.980 5180.000								_	



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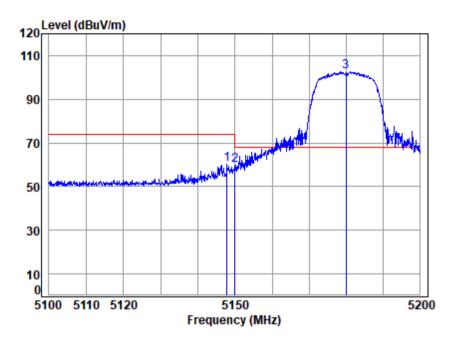


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Test Mode: 04: Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5147.857								
	5149.980	7.55	34.00	34.99	53.17	59.73	74.00	-14.27	Peak
q	5180.000	7.57	34.00	34.99	96.17	102.75	68.20	34.55	Peak



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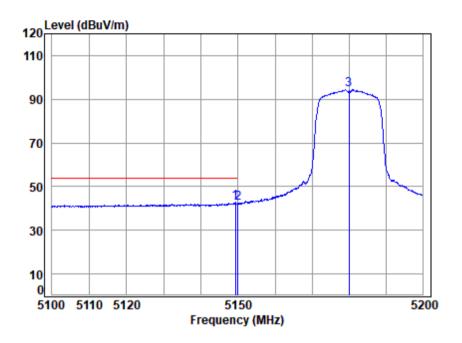


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Test Mode: 04: Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5180 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5149.257								_
2 5149.980	7.55	34.00	34.99	35.67	42.23	54.00	-11.77	Average
3 5180.000	7.57	34.00	34.99	87.70	94.28			Average



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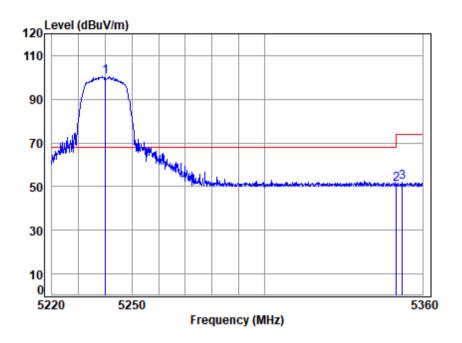


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5240 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	q 5240.000 5350.020								-
3	5352.345	7.71	34.31	35.00	45.02	52.04	74.00	-21.96	neak



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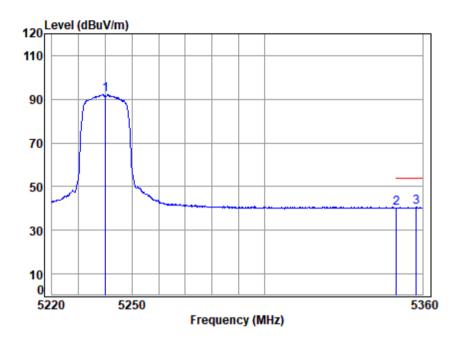


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5240 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.62	34.00	35.00	85.57	92.19			Average
2	5350.020	7.70	34.30	35.00	33.23	40.23	54.00	-13.77	Average
3 q	5357.589	7.71	34.33	35.00	33.62	40.66	54.00	-13.34	Average



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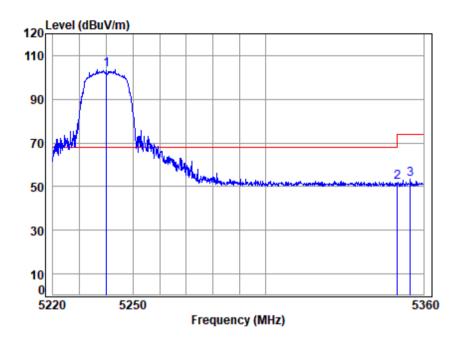


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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 02949AT

Mode : 5240 Band edge

· 5G WTFT 11Δ

	. 50	MATIT	114						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
q	5240.000	7.62	34.00	35.00	96.87	103.49	68.20	35.29	Peak
2	5350.020	7.70	34.30	35.00	44.91	51.91	74.00	-22.09	Peak
	535/ 896	7 71	3/1 32	35 00	46 15	53 18	7/ 00	-20 82	Poak



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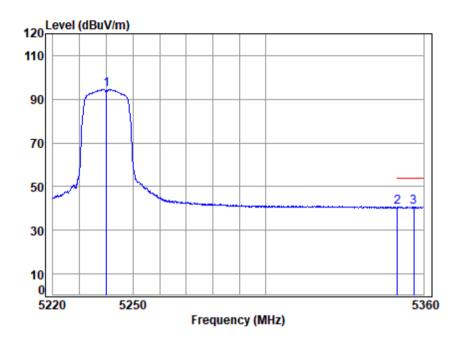


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Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL Job No : 02949AT

: 5240 Band edge Mode

· 5G WIFT 11A

	. 50	MILI	IIA							
		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	5240.000	7.62	34.00	35.00	87.98	94.60			Average	
2	5350.020	7.70	34.30	35.00	33.44	40.44	54.00	-13.56	Average	
3 a	5356, 171	7.71	34.32	35.00	33.78	40.81	54.00	-13.19	Average	



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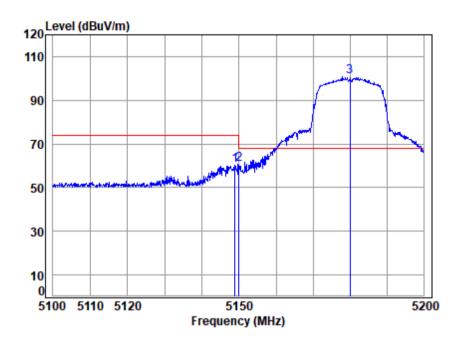


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5180 Band edge

56 WTET 11N20

	. 50	MILIT	111120						
		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	5148.857	7.55	34.00	34.99	53.47	60.03	74.00	-13.97	peak
	5149.980								•
	5180 000								•



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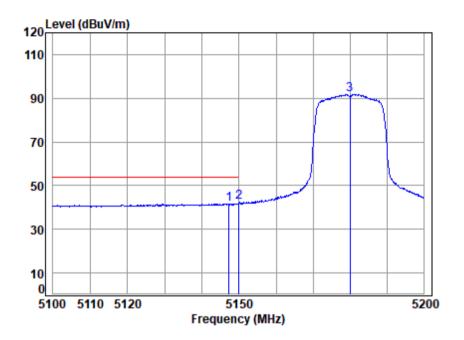


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5180 Band edge

: 5G WIFI 11N20

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		5147.258	7.55	34.01	34.99	35.16	41.73	54.00	-12.27	Average	
2	q	5149.980	7.55	34.00	34.99	35.87	42.43	54.00	-11.57	Average	
3		5180.000	7.57	34.00	34.99	85.36	91.94			Average	



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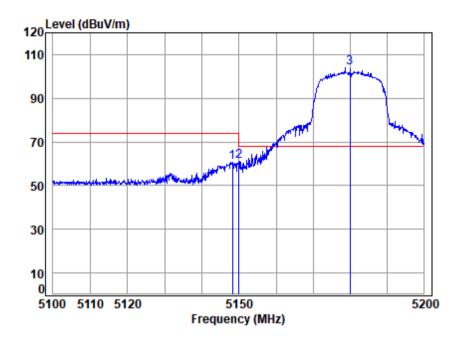


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT Mode

: 5180 Band edge : 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5148.158	7.55	34.00	34.99	54.06	60.62	74.00	-13.38	Peak
	5149.980	7.55	34.00	34.99	54.39	60.95	74.00	-13.05	Peak
q	5180.000	7.57	34.00	34.99	97.29	103.87	68.20	35.67	Peak



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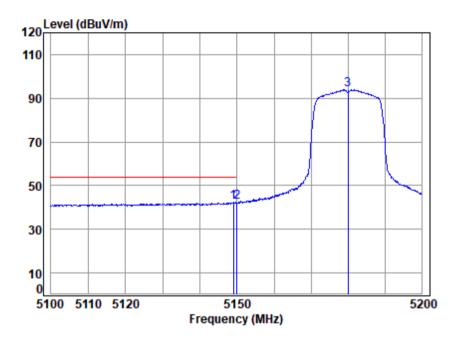


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5180 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.057	7.55	34.00	34.99	35.80	42.36	54.00	-11.64	Average
2 q	5149.980	7.55	34.00	34.99	36.02	42.58	54.00	-11.42	Average
3	5180.000	7.57	34.00	34.99	87.24	93.82			Average



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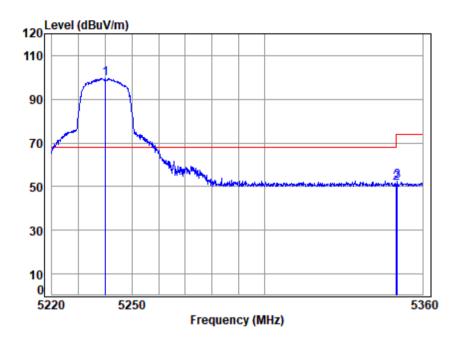


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5240 Band edge

: 5G WIFI 11N20

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	5240.000	7.62	34.00	35.00	93.07	99.69	68.20	31.49	peak
2		5350.020	7.70	34.30	35.00	44.72	51.72	74.00	-22.28	peak
3		5350.362	7.70	34.30	35.00	45.27	52.27	74.00	-21.73	peak



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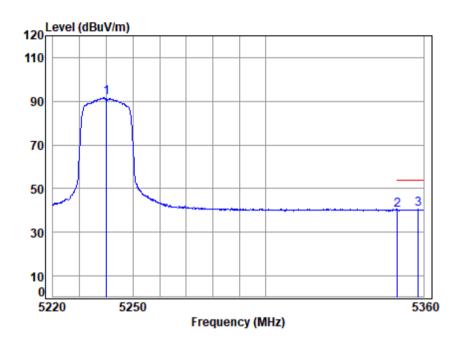


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5240 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.62	34.00	35.00	84.92	91.54			Average
2	5350.020	7.70	34.30	35.00	33.20	40.20	54.00	-13.80	Average
3 q	5358.014	7.71	34.33	35.00	33.39	40.43	54.00	-13.57	Average



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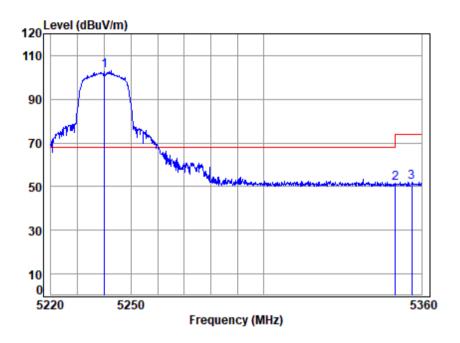


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL : 02949AT Job No

Mode : 5240 Band edge

: 5G WIFI 11N20

Fre	Cable eq Loss		Preamp Factor					Remark
MI	Hz dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5240.00	00 7.62	34.00	35.00	96.52	103.14	68.20	34.94	Peak
2 5350.0	20 7.70	34.30	35.00	44.54	51.54	74.00	-22.46	Peak
3 5356.3	13 7.71	34.33	35.00	44.95	51.99	74.00	-22.01	Peak



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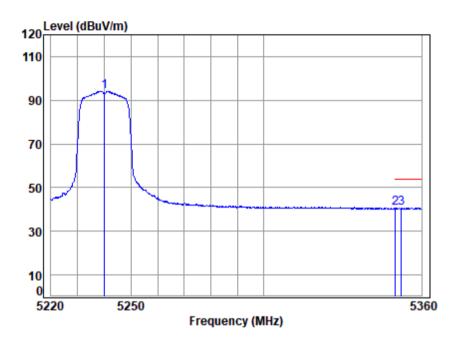


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5240 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.62	34.00	35.00	87.45	94.07			Average
2	5350.020	7.70	34.30	35.00	33.43	40.43	54.00	-13.57	Average
3 q	5352.203	7.71	34.31	35.00	33.62	40.64	54.00	-13.36	Average



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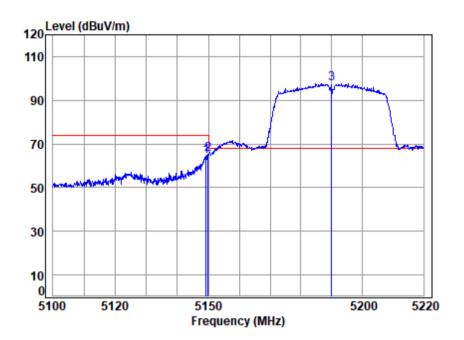


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5190 Band edge

. 5G WTFT 11N40

			Ant	Preamp						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5149.222	7.55	34.00	34.99	57.57	64.13	74.00	-9.87	peak	
2	5149.980	7.55	34.00	34.99	58.71	65.27	74.00	-8.73	peak	
2	a 5190 000	7 58	3/1 00	3/1 00	91 22	97 91	68 20	29 61	noak	



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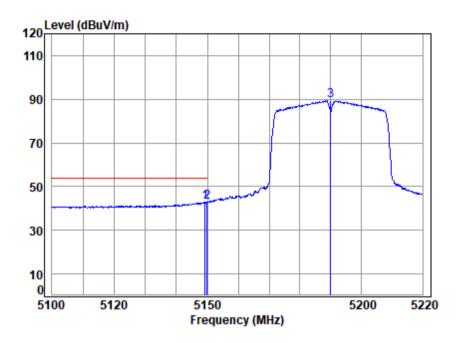


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5	149.222	7.55	34.00	34.99	36.39	42.95	54.00	-11.05	Average
2 q 5	149.980	7.55	34.00	34.99	36.41	42.97	54.00	-11.03	Average
3 5	190.000	7.58	34.00	34.99	82.72	89.31			Average



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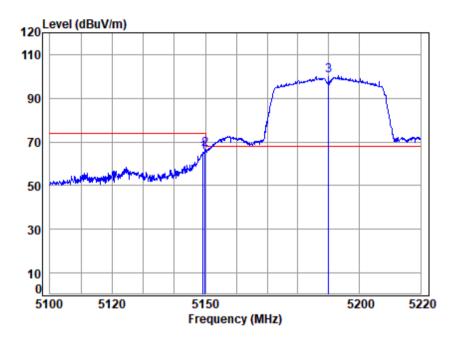


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Test Mode: 04: Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5190 Band edge : 5G WIFI 11N40

> Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Line Limit Remark Level Level dBuV dBuV/m dBuV/m MHz dB dB/m dB dB

1	5149.342	7.55	34.00	34.99	58.58	65.14	74.00	-8.86 Peak
2	5149.980	7.55	34.00	34.99	60.20	66.76	74.00	-7.24 Peak
3 q	5190.000	7.58	34.00	34.99	93.83	100.42	68.20	32.22 Peak



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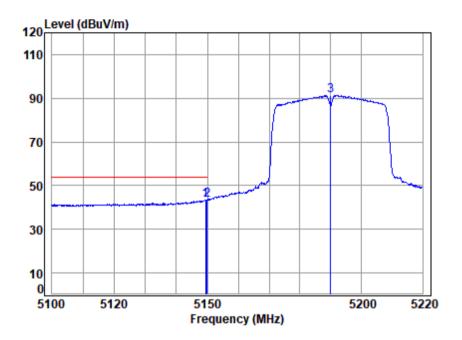


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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1 q	5149.461	7.55	34.00	34.99	36.94	43.50	54.00	-10.50	Average	
2	5149.980	7.55	34.00	34.99	36.77	43.33	54.00	-10.67	Average	
3	5190.000	7.58	34.00	34.99	84.69	91.28			Average	



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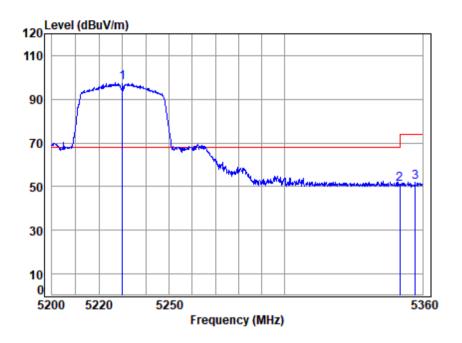


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5230 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q 5230.000	7.61	34.00	34.99	91.07	97.69	68.20	29.49	peak
2	5350.020	7.70	34.30	35.00	44.16	51.16	74.00	-22.84	peak
3	5356.752	7.71	34.33	35.00	45.20	52.24	74.00	-21.76	peak



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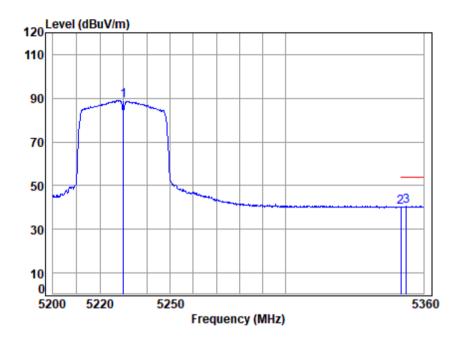


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5230 Band edge

. 5G WTFT 11N40

	. 50	MILIT	111140						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Frea	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MU-				40//	dDu///m	dD.J//m		
	МПΖ	ub	ub/m	dB	ubuv	ubuv/m	ubuv/m	dB	
1	5230.000	7.61	34.00	34.99	82.34	88.96			Average
2	5350.020	7.70	34.30	35.00	33.23	40.23	54.00	-13.77	Average
	a 5352 371								_



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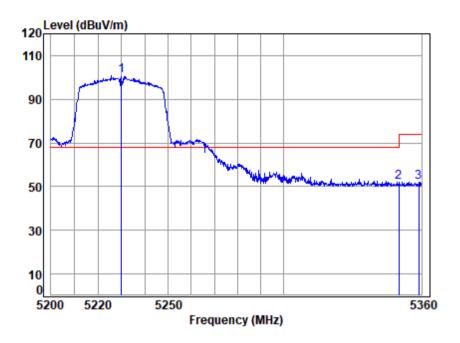


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Report No.: SZCR230900294905

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5230 Band edge

. 5G WTFT 11N40

	. 50	AATIT	111140							
		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 0	5230.000	7.61	34.00	34.99	94.31	100.93	68.20	32.73	Peak	
2	5350.020	7.70	34.30	35.00	44.80	51.80	74.00	-22.20	Peak	
3	5358 701	7 71	3/1 33	35 00	11 97	52 01	7/ 00	_21 99	Dook	



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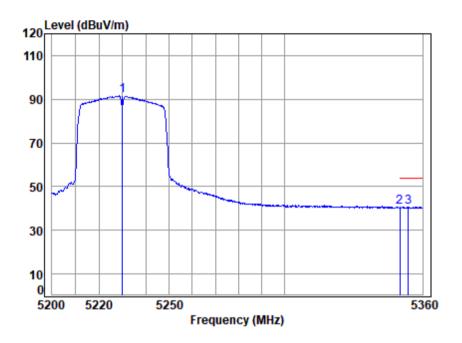


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Report No.: SZCR230900294905

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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5230 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	7.61	34.00	34.99	84.93	91.55			Average
2	5350.020	7.70	34.30	35.00	33.53	40.53	54.00	-13.47	Average
3 q	5353.831	7.71	34.32	35.00	33.70	40.73	54.00	-13.27	Average



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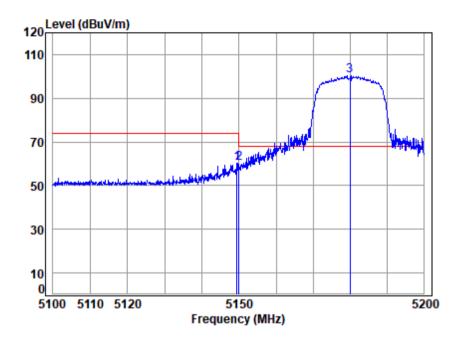


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

3 q 5180.000

Mode : 5180 Band edge

: 5G WIFI 11AC20

7.57

34.00

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Freq Level Level dBuV dBuV/m dBuV/m MHz dB dB/m 5149.458 7.55 74.00 -13.65 peak 34.00 34.99 53.79 60.35 60.16 5149.980 7.55 34.00 34.99 53.60 74.00 -13.84 peak



1

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34.99 93.75 100.33 68.20 32.13 peak

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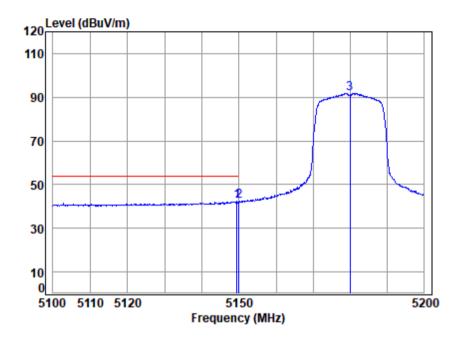


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5180 Band edge

· 5G WTFT 11ΔC20

	Cable		Preamp Factor						
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
5149.357 5149.980								_	
5180 000								_	



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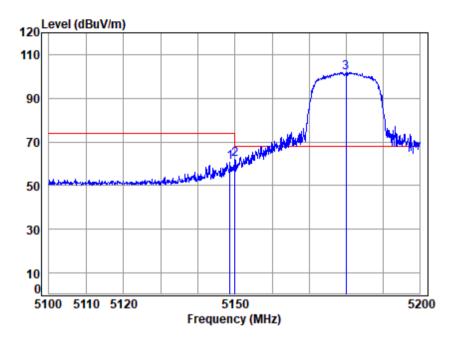


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Test Mode: 04: Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 02949AT

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5148.657	7.55	34.00	34.99	53.98	60.54	74.00	-13.46	Peak	
	5149.980	7.55	34.00	34.99	55.63	62.19	74.00	-11.81	Peak	
q	5180.000	7.57	34.00	34.99	95.38	101.96	68.20	33.76	Peak	



1 2

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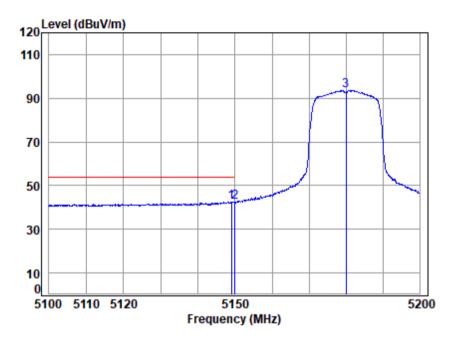


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5148.958	7.55	34.00	34.99	36.01	42.57	54.00	-11.43	Average	
2 q	5149.980	7.55	34.00	34.99	36.04	42.60	54.00	-11.40	Average	
3	5180.000	7.57	34.00	34.99	87.10	93.68			Average	



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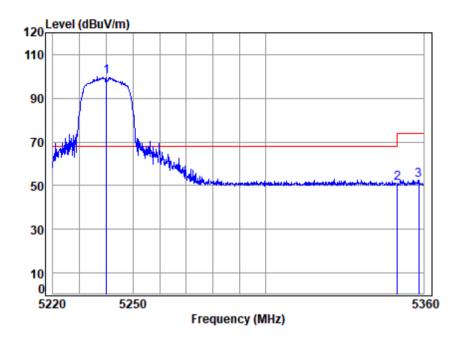


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5240 Band edge

· 5G WTFT 11ΔC20

		. 50	MATIT	IIACZU							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	q	5240.000	7.62	34.00	35.00	93.20	99.82	68.20	31.62	peak	
		5350.020								-	
3		5358 156	7 71	3/1 33	35 00	15 51	52 55	7/ 00	_21 //5	nook	



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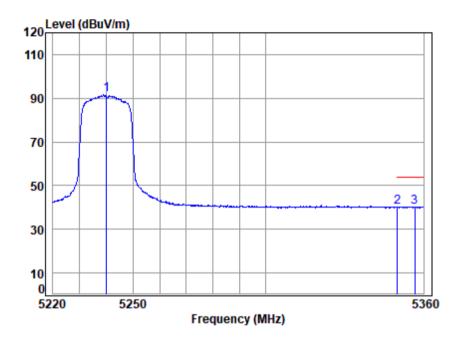


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5240 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.62	34.00	35.00	84.89	91.51			Average
2	5350.020	7.70	34.30	35.00	33.25	40.25	54.00	-13.75	Average
3 a	5356.738	7.71	34.33	35.00	33.32	40.36	54.00	-13.64	Average



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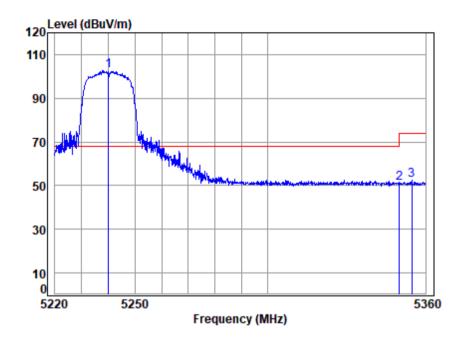


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Report No.: SZCR230900294905

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



Site : chamber

Condition: 3m VERTICAL : 02949AT Job No

Mode : 5240 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5	240.000	7.62	34.00	35.00	96.21	102.83	68.20	34.63	Peak
2 5	350.020	7.70	34.30	35.00	44.13	51.13	74.00	-22.87	Peak
3 5	354.754	7.71	34.32	35.00	45.55	52.58	74.00	-21.42	Peak



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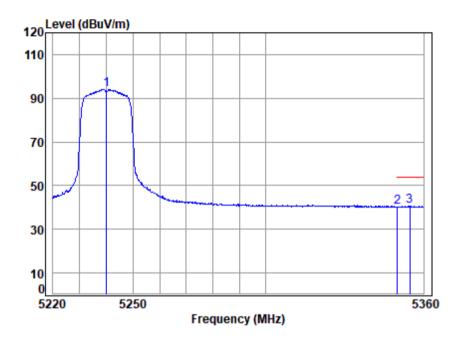


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5240 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.62	34.00	35.00	87.55	94.17			Average
2	5350.020	7.70	34.30	35.00	33.32	40.32	54.00	-13.68	Average
3 q	5354.754	7.71	34.32	35.00	33.66	40.69	54.00	-13.31	Average



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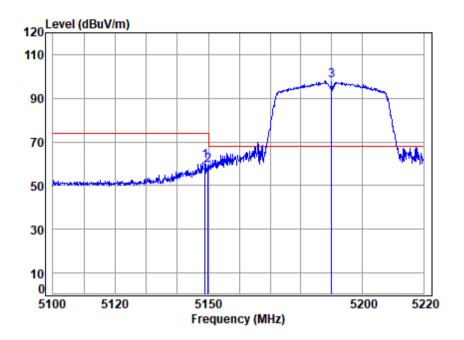


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Test Mode: 04: Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5190 Band edge

: 5G WIFI 11AC40

Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
5148.863								•	
5149.980 q 5190.000								•	



1 2

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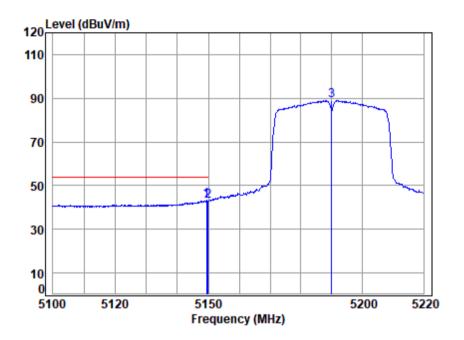


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Test Mode: 04: Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

5190,000

Mode : 5190 Band edge

: 5G WIFI 11AC40

7.58

34.00

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1 q 5149.461 7.55 54.00 -10.83 Average 34.00 34.99 36.61 43.17 5149.980 7.55 34.00 34.99 36.48 43.04 54.00 -10.96 Average



2

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34.99 82.33 88.92 ----- Average

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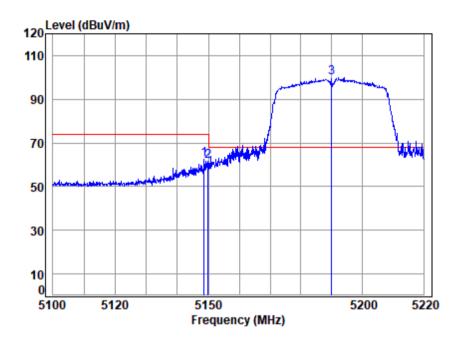


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL : 02949AT Job No

Mode : 5190 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.623	7.55	34.00	34.99	55.84	62.40	74.00	-11.60	Peak
2	5149.980	7.55	34.00	34.99	54.88	61.44	74.00	-12.56	Peak
3 a	5190,000	7.58	34.00	34.99	93.33	99.92	68.20	31.72	Peak



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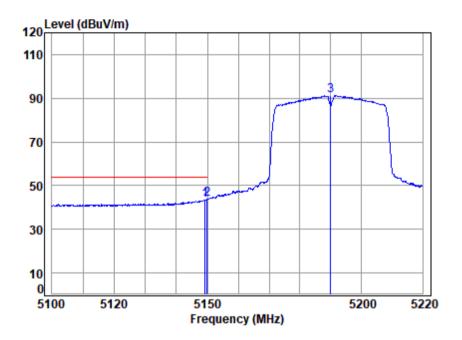


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Report No.: SZCR230900294905

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Test Mode: 04: Polarity: Vertical: Modulation:802.11ac: Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5190 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.342	7.55	34.00	34.99	36.85	43.41	54.00	-10.59	Average
2 q	5149.980	7.55	34.00	34.99	37.33	43.89	54.00	-10.11	Average
3	5190.000	7.58	34.00	34.99	84.56	91.15			Average



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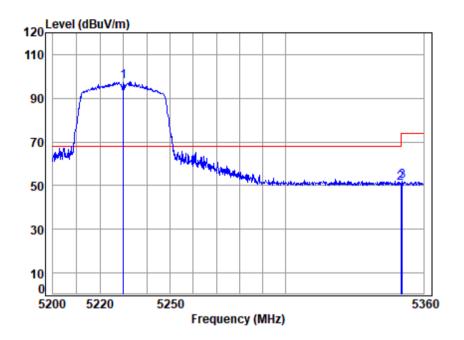


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5230 Band edge

· 5G WTFT 11ΔC40

		Cable		Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
_	5230.000								-
	5350.020								•



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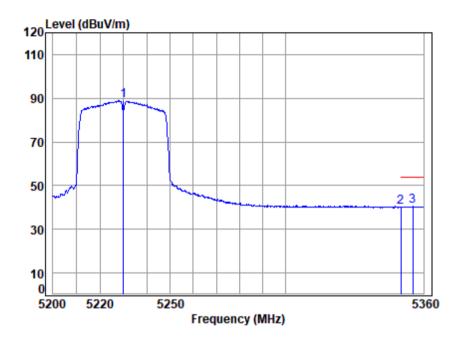


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5230 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5230.000	7.61	34.00	34.99	82.27	88.89			Average	
2	5350.020	7.70	34.30	35.00	33.05	40.05	54.00	-13.95	Average	
3 q	5355.292	7.71	34.32	35.00	33.49	40.52	54.00	-13.48	Average	



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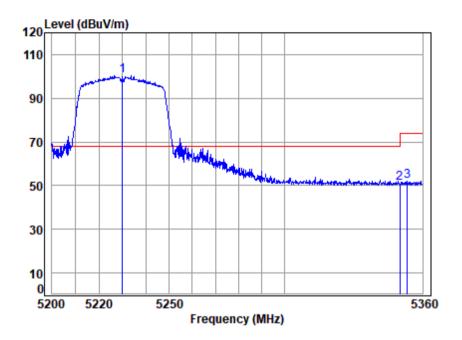


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5230 Band edge

· 5G WTFT 11ΔC40

	. 50	AATIT	TIACTO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
q	5230.000	7.61	34.00	34.99	93.93	100.55	68.20	32.35	Peak
	5350.020	7.70	34.30	35.00	44.13	51.13	74.00	-22.87	Peak
1	5353 3//	7 71	3/1 31	35 00	45 02	52 04	7/ 00	21 96	Dook



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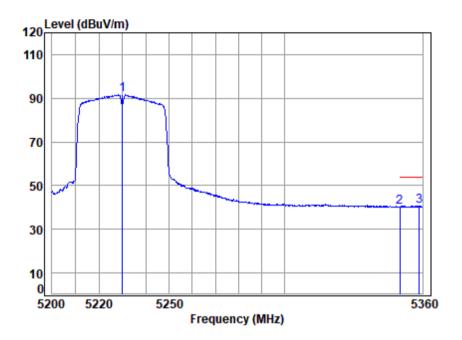


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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5230 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	7.61	34.00	34.99	84.97	91.59			Average
2	5350.020	7.70	34.30	35.00	33.31	40.31	54.00	-13.69	Average
3 (5358.538	7.71	34.33	35.00	33.72	40.76	54.00	-13.24	Average



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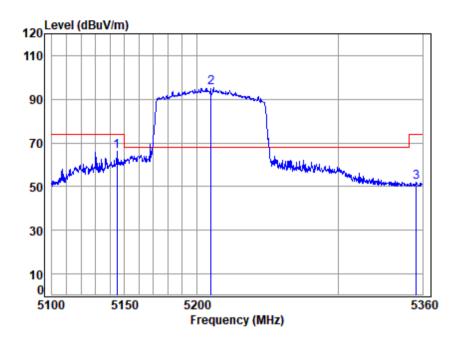


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Test Mode: 04: Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5210 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5144.572	7.55	34.01	34.99	59.44	66.01	74.00	-7.99	peak
2 q	5210.000	7.60	34.00	34.99	88.87	95.48	68.20	27.28	peak
3	5355.471	7.71	34.32	35.00	44.89	51.92	74.00	-22.08	peak



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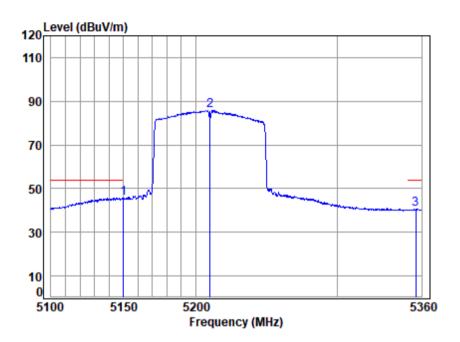


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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5210 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	q 5149.947	7.55	34.00	34.99	39.23	45.79	54.00	-8.21	Average	
2	5210.000	7.60	34.00	34.99	79.13	85.74			Average	
3	5355.737	7.71	34.32	35.00	33.58	40.61	54.00	-13.39	Average	



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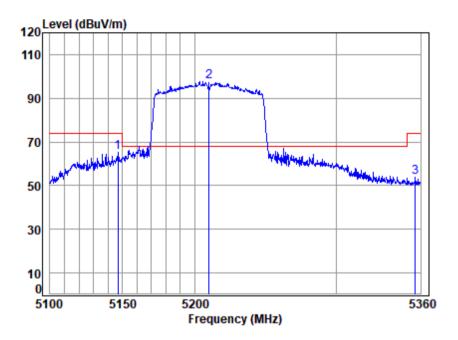


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Test Mode: 04: Polarity: Vertical: Modulation:802.11ac: Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5210 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5146.619	7.55	34.01	34.99	58.59	65.16	74.00	-8.84	Peak
2 q	5210.000	7.60	34.00	34.99	90.99	97.60	68.20	29.40	Peak
3	5356.270	7.71	34.33	35.00	46.98	54.02	74.00	-19.98	Peak



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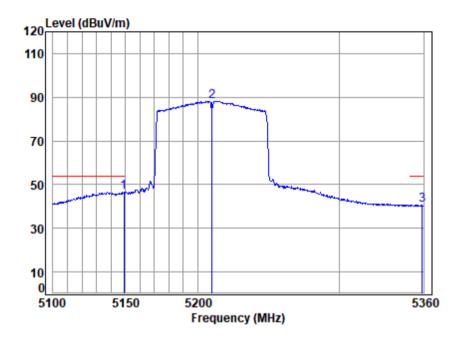


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Test Mode: 04: Polarity: Vertical: Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL : 02949AT Job No

Mode : 5210 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	q 5148.922	7.55	34.00	34.99	40.09	46.65	54.00	-7.35	Average	
2	5210.000	7.60	34.00	34.99	81.66	88.27			Average	
3	5359.201	7.71	34.34	35.00	33.68	40.73	54.00	-13.27	Average	



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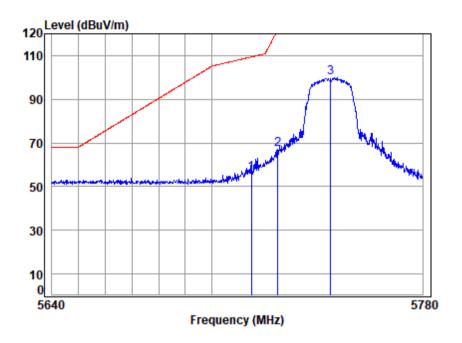


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5745 Band edge

: 5G WIFI 11A

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5715.000 2 5725.000								•
3 5745.000								•



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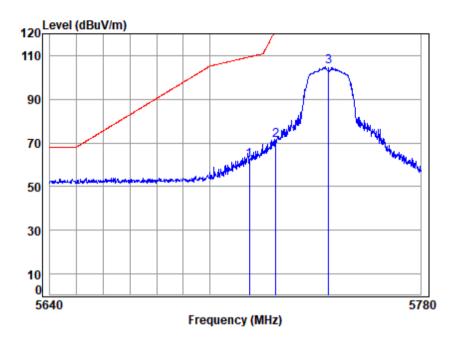


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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5745 Band edge

· 5G WIFT 11A

	. 50	MATIT	IIM							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 q	5715.000	7.97	34.50	35.02	54.72	62.17	109.40	-47.23	peak	
	5725.000								-	
3	5745 000	7 99	34 50	35 03	97 70	105 16			neak	



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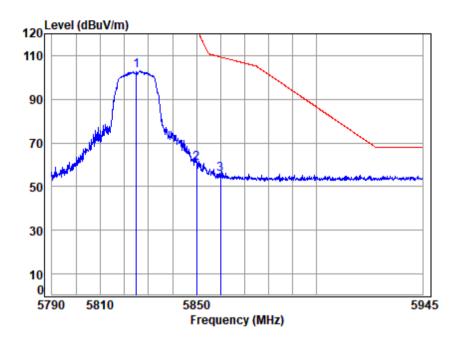


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Report No.: SZCR230900294905

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5825 Band edge

· 5G WTFT 11Δ

	. 50	AATIT	114							
		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	5825.000	8.05	34.65	35.03	95.34	103.01			peak	
2	5850.000	8.07	34.70	35.03	53.12	60.86	122.20	-61.34	peak	
3 0	5860 000	2 07	3/1 72	35 03	12 10	55 86	100 /0	53 54	noak	



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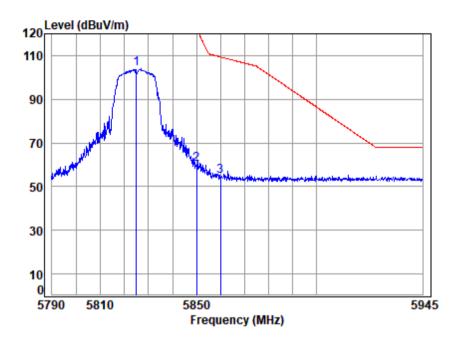


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Test Mode: 05; Polarity: Vertical: Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5825 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	5825.000	8.05	34.65	35.03	96.44	104.11			peak	
2	5850.000	8.07	34.70	35.03	52.30	60.04	122.20	-62.16	peak	
3	q 5860.000	8.07	34.72	35.03	46.85	54.61	109.40	-54.79	peak	



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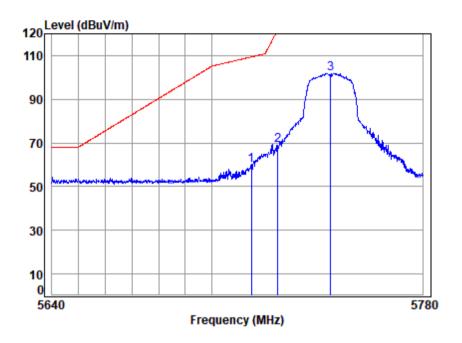


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5745 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	5715.000	7.97	34.50	35.02	52.14	59.59	109.40	-49.81	peak
2	5725.000	7.98	34.50	35.02	61.33	68.79	122.20	-53.41	Peak
3	5745.000	7.99	34.50	35.03	94.41	101.87			peak



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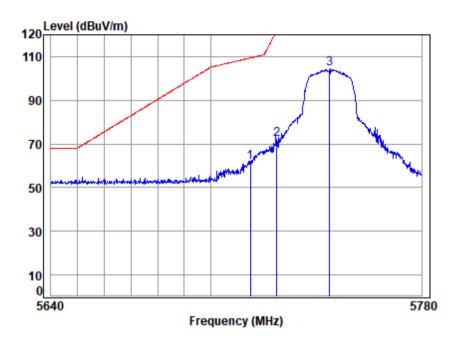


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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 02949AT

Mode : 5745 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5	5715.000	7.97	34.50	35.02	54.37	61.82	109.40	-47.58	peak
2 5	725.000	7.98	34.50	35.02	64.70	72.16	122.20	-50.04	Peak
3 5	745.000	7.99	34.50	35.03	97.24	104.70			peak



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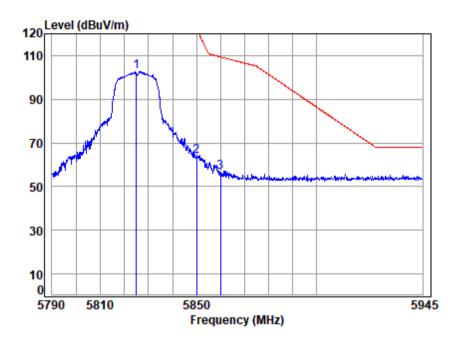


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5825 Band edge

56 WTET 11N20

			Ant	Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.65	35.03	95.16	102.83			peak
2	5850.000	8.07	34.70	35.03	56.04	63.78	122.20	-58.42	peak
3 0	5860 000	8 07	34 72	35 03	49 00	56 76	109 40	-52 64	neak



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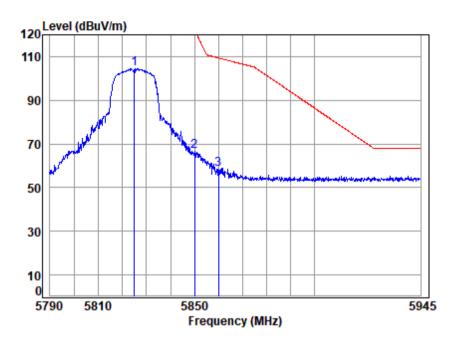


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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5825 Band edge

56 WTET 11N20

			Ant	Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1 2	5825.000 5850.000								•
	5860 000								•



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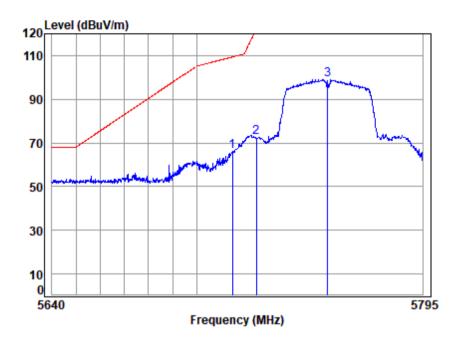


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5755 Band edge

: 5G WIFI 11N40

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5715.000								•
2 5725.000 3 5755.000								•



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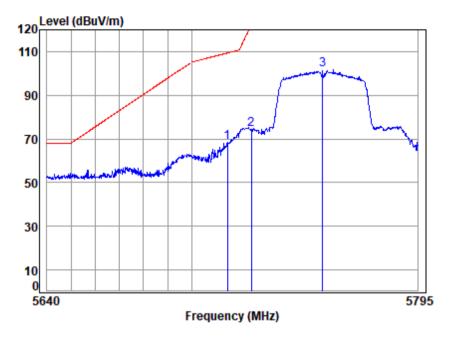


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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5755 Band edge : 5G WIFI 11N40

	Freq			Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
q	5715.000	7.97	34.50	35.02	60.86	68.31	109.40	-41.09	peak
	5725.000	7.98	34.50	35.02	66.81	74.27	122.20	-47.93	peak
}	5755.000	8.00	34.51	35.03	94.09	101.57			peak



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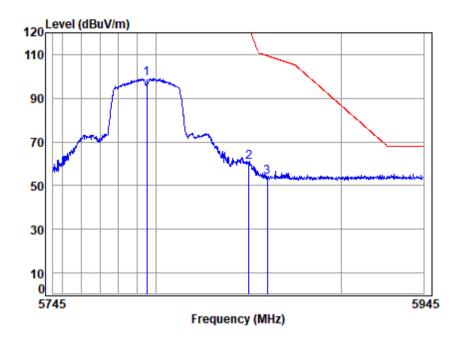


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5795 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.03	34.59	35.03	91.62	99.21			peak
2	5850.000	8.07	34.70	35.03	53.01	60.75	122.20	-61.45	peak
3 q	5860.000	8.07	34.72	35.03	45.92	53.68	109.40	-55.72	peak



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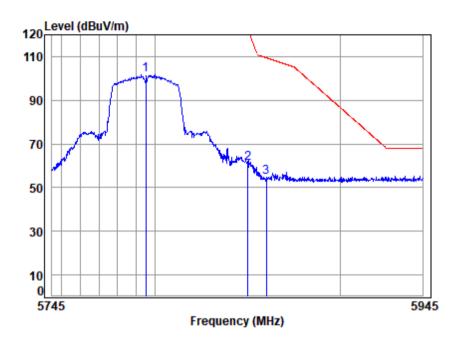


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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL : 02949AT Job No

Mode : 5795 Band edge

· 5G WTET 11N40

		MILIT	111140						
		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	
	5795.000	8.03	34.59	35.03	94.20	101.79			peak
2	5850.000	8.07	34.70	35.03	53.36	61.10	122.20	-61.10	peak
	5860 000	8 07	34 72	35 03	47 18	54 94	109 40	-54 46	neak



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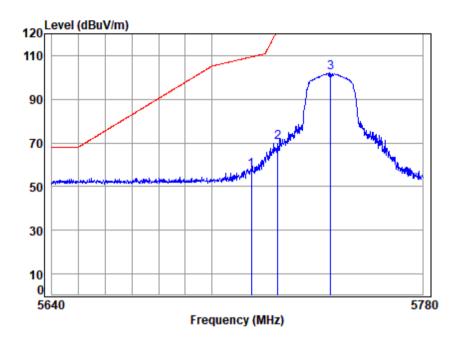


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5745 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q 5715.000	7.97	34.50	35.02	50.01	57.46	109.40	-51.94	peak
2	5725.000	7.98	34.50	35.02	62.60	70.06	122.20	-52.14	peak
3	5745.000	7.99	34.50	35.03	94.60	102.06			peak



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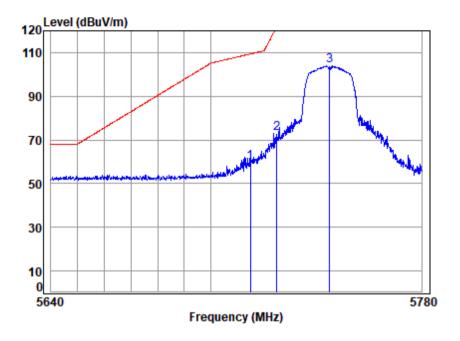


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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 02949AT

Mode : 5745 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5715.000	7.97	34.50	35.02	52.10	59.55	109.40	-49.85	peak
2 q	5725.000	7.98	34.50	35.02	65.65	73.11	122.20	-49.09	peak
3	5745.000	7.99	34.50	35.03	96.65	104.11			peak



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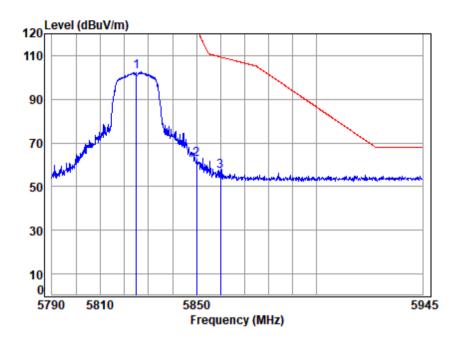


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5825 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.65	35.03	95.00	102.67			peak
2	5850.000	8.07	34.70	35.03	54.86	62.60	122.20	-59.60	peak
3 q	5860.000	8.07	34.72	35.03	49.10	56.86	109.40	-52.54	peak



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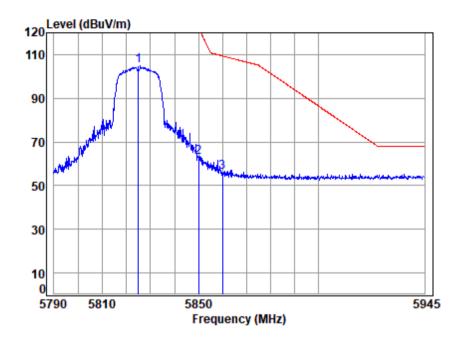


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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

: 02949AT Job No

Mode : 5825 Band edge

: 5G WTFT 11ΔC20

		Cable		Preamp					Pomonk	
				Factor					Nelliark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5825.000	8.05	34.65	35.03	97.08	104.75			peak	
2	5850.000	8.07	34.70	35.03	55.37	63.11	122.20	-59.09	peak	
3 0	5860 000	2 07	3/1 72	35 03	12 15	56 21	109 /0	_53 19	neak	



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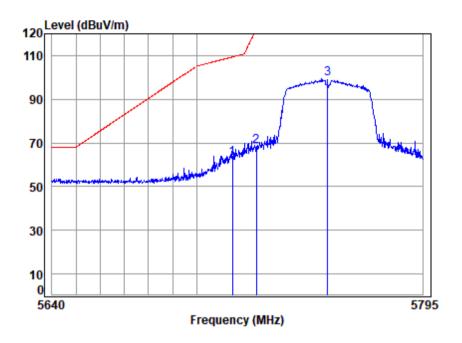


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

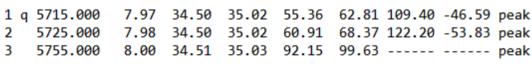
Condition: 3m HORIZONTAL

Job No : 02949AT

Mode : 5755 Band edge

: 5G WIFI 11AC40

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Line Limit Remark Freq Level Level dBuV dBuV/m dBuV/m MHz dB dB/m





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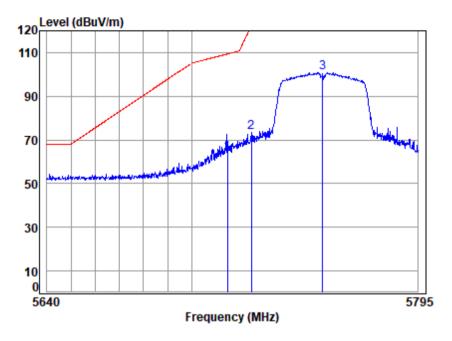


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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m VERTICAL Job No : 02949AT

Mode : 5755 Band edge

: 5G WIFI 11AC40

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5715.000	7.97	34.50	35.02	56.66	64.11	109.40	-45.29	peak
2 5725.000	7.98	34.50	35.02	65.85	73.31	122.20	-48.89	peak
3 5755.000	8.00	34.51	35.03	93.46	100.94			peak



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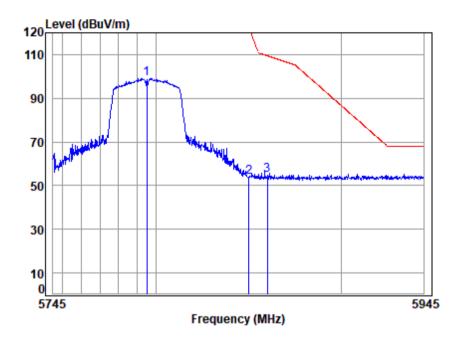


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5795 Band edge

· 5G WIFT 11AC40

		. 50	MITIT	TIACHO							
			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		5795.000	8.03	34.59	35.03	91.52	99.11			peak	
2		5850.000	8.07	34.70	35.03	46.21	53.95	122.20	-68.25	peak	
3	•	5860 000	8 97	3/1 72	35 03	47 97	54 83	109 40	-54 57	neak	



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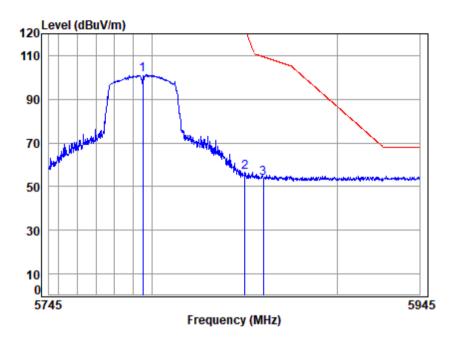


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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber

Job No

1 2

Condition: 3m VERTICAL

Mode : 5795 Band edge

: 02949AT

· 5G WIFT 11AC40

		MILI	TIAC40						
		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	
	5795.000	8.03	34.59	35.03	93.67	101.26			peak
	5850.000	8.07	34.70	35.03	48.84	56.58	122.20	-65.62	peak
а	5860 000	8 97	34 72	35 03	46 22	53 98	109 40	-55 42	neak



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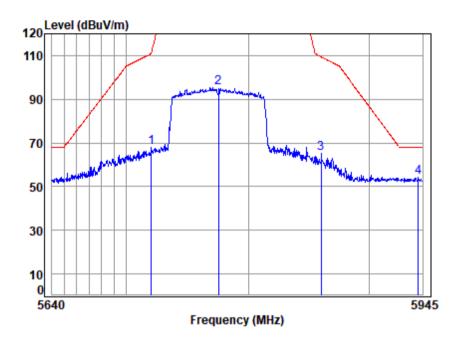


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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL

: 02949AT Job No

Mode : 5775 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5720.171	7.98	34.50	35.02	60.43	67.89	111.19	-43.30	peak
2	5775.000	8.01	34.55	35.03	87.76	95.29			peak
3	5860.135	8.07	34.72	35.03	57.47	65.23	109.36	-44.13	peak
	5941.557								-



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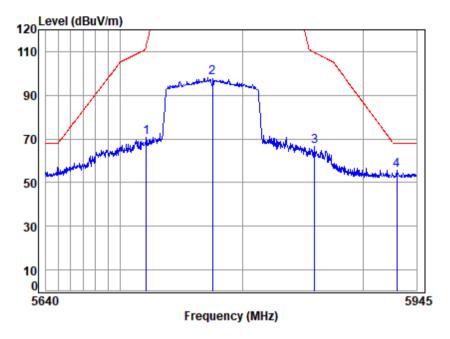


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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber

Condition: 3m VERTICAL

Job No : 02949AT

Mode : 5775 Band edge

: 5G WIFI 11AC80

		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	5721.075	7.98	34.50	35.02	63.37	70.83	113.25	-42.42	peak
2	5775.000	8.01	34.55	35.03	90.67	98.20			peak
3	5859.518	8.07	34.72	35.03	58.63	66.39	109.53	-43.14	peak
4	q 5928.429	8.12	34.86	35.04	47.52	55.46	68.20	-12.74	Peak



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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

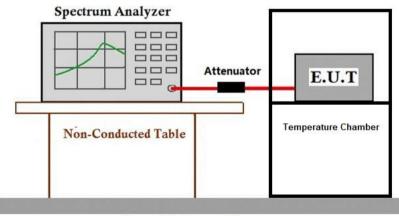
Operating Environment:

23.5 °C Atmospheric Pressure: 1000 mbar Temperature: Humidity: 52.3 % RH

7 11 2 Test Mode Description

7.11.2 Test mode bescription								
Pre-scan / Final test	Mode Code	Description						
Final test	04	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 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.						
Final test	05	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 802.11n/ac 20/40/80, 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 Appendix - Test Setup Photo for SZCR2309002949AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix – External and Internal Photos for SZCR2309002949AT.



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

					\nt1		
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		5180	1.394	1.437	97.01	0.13	0.07
		5200	1.394	1.437	97.01	0.13	0.03
802.11a	SISO	5240	1.393	1.436	97.01	0.13	0.07
002.11a	3130	5745	1.394	1.437	97.01	0.13	0.03
		5785	1.394	1.436	97.08	0.13	0.03
		5825	1.394	1.436	97.08	0.13	0.03
		5180	1.302	1.345	96.80	0.14	0.03
		5200	1.302	1.345	96.80	0.14	0.03
802.11n	SISO	5240	1.302	1.344	96.88	0.14	0.03
(HT20)	3130	5745	1.302	1.345	96.80	0.14	0.03
		5785	1.302	1.344	96.88	0.14	0.03
		5825	1.302	1.344	96.88	0.14	0.03
		5190	0.637	0.680	93.68	0.28	0.04
802.11n	SISO	5230	0.638	0.680	93.82	0.28	0.03
(HT40)		5755	0.637	0.680	93.68	0.28	0.03
		5795	0.638	0.680	93.82	0.28	0.03
		5180	1.314	1.356	96.90	0.14	0.03
	SISO	5200	1.315	1.357	96.90	0.14	0.03
802.11ac		5240	1.314	1.357	96.83	0.14	0.03
(VHT20)	3130	5745	1.314	1.357	96.83	0.14	0.03
		5785	1.314	1.357	96.83	0.14	0.03
		5825	1.314	1.356	96.90	0.14	0.03
		5190	0.653	0.696	93.82	0.28	0.00
802.11ac	SISO	5230	0.653	0.696	93.82	0.28	0.03
(VHT40)	3130	5755	0.654	0.696	93.97	0.27	0.03
		5795	0.654	0.696	93.97	0.27	0.03
802.11ac	SISO	5210	0.326	0.368	88.59	0.53	0.00
(VHT80)	3130	5775	0.326	0.369	88.35	0.54	0.04



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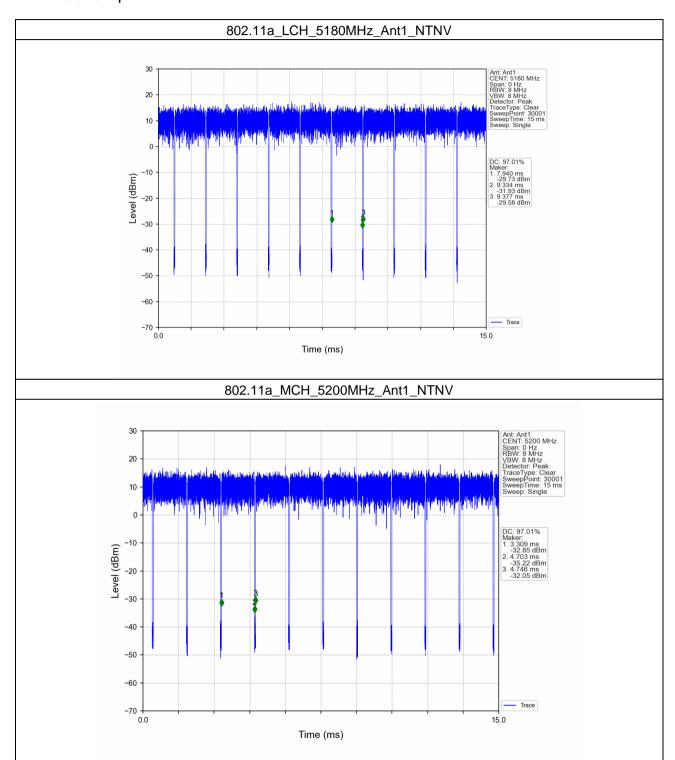


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1.1.2 Test Graph





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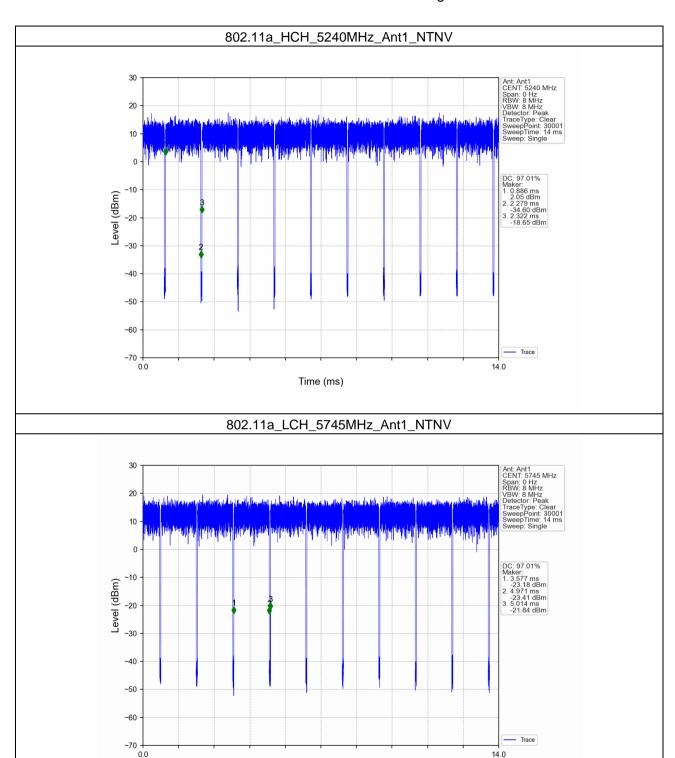
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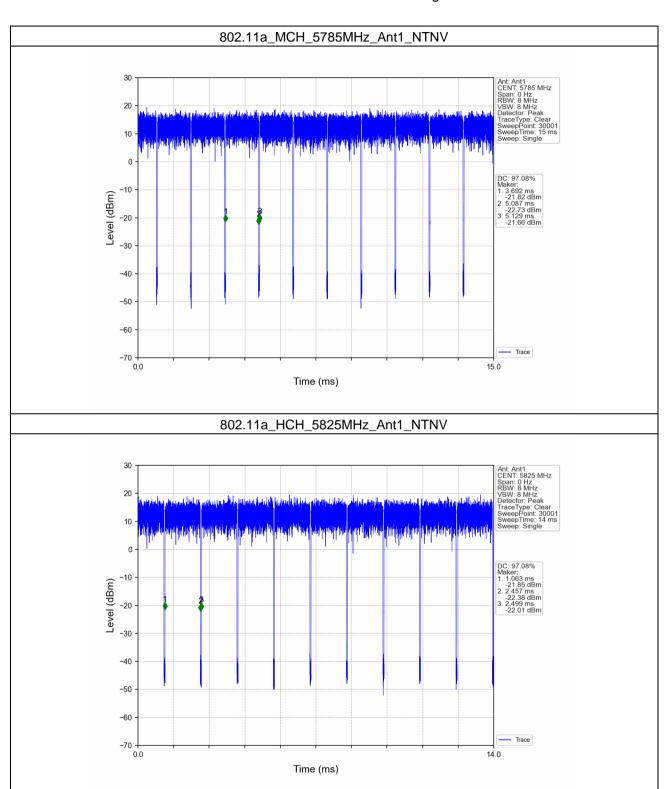
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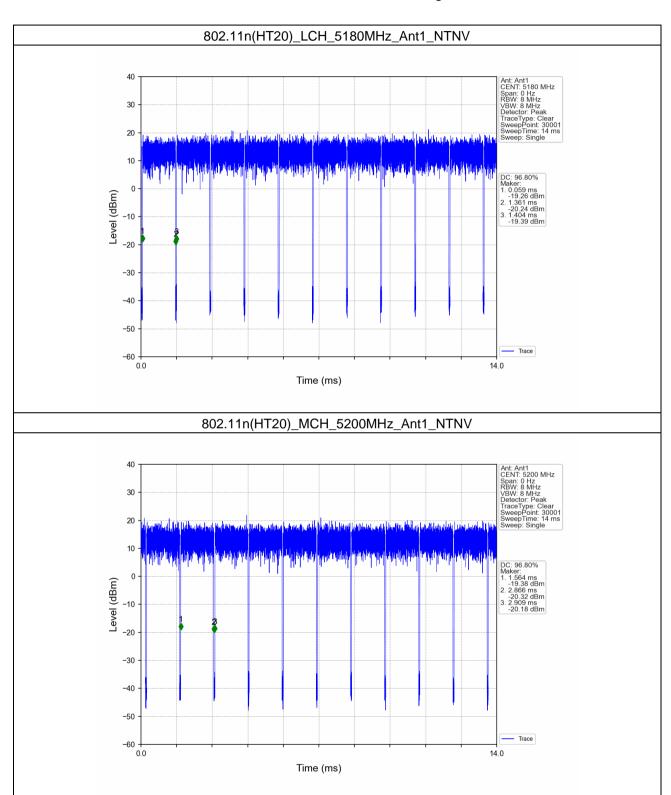
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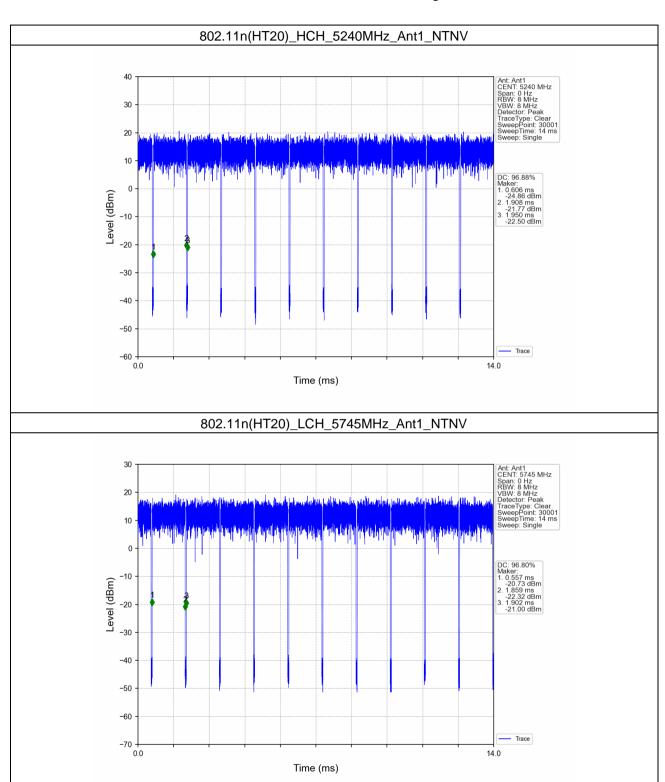
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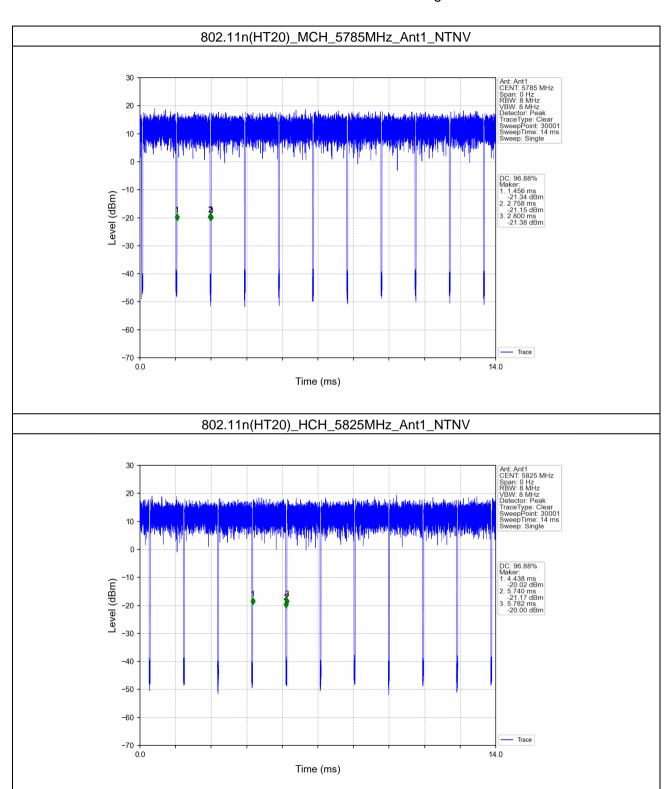
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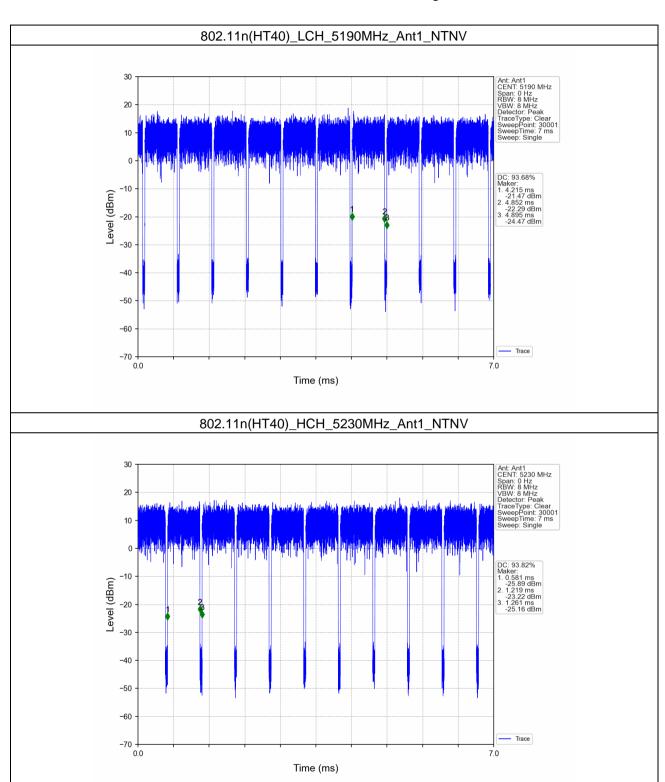
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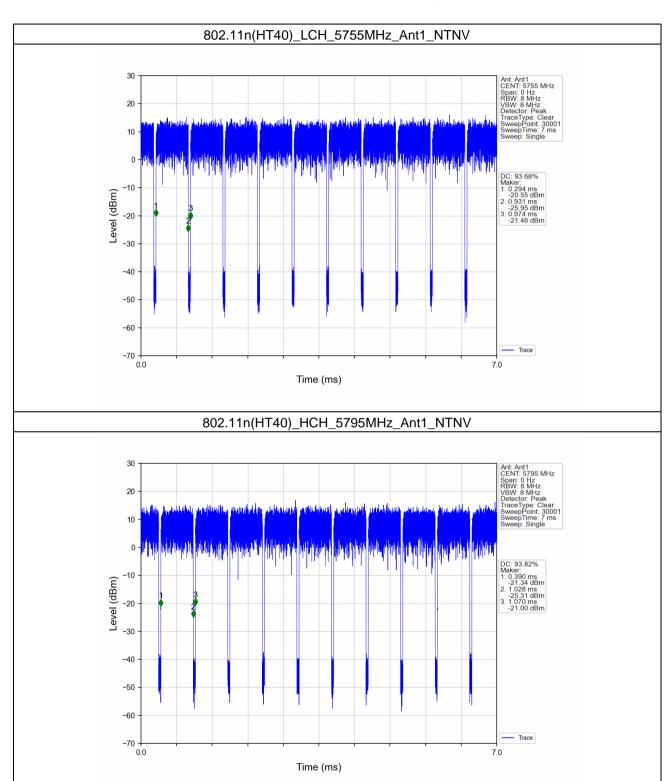
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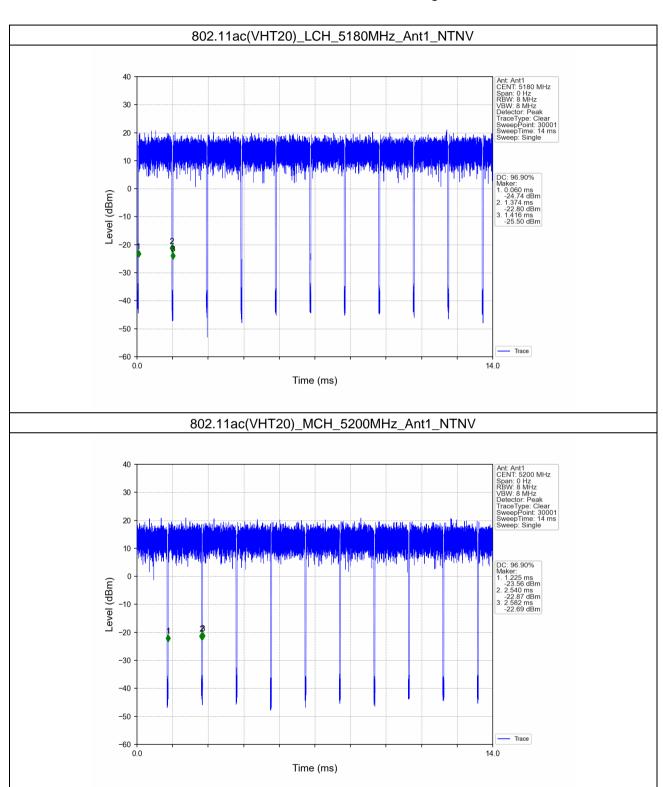
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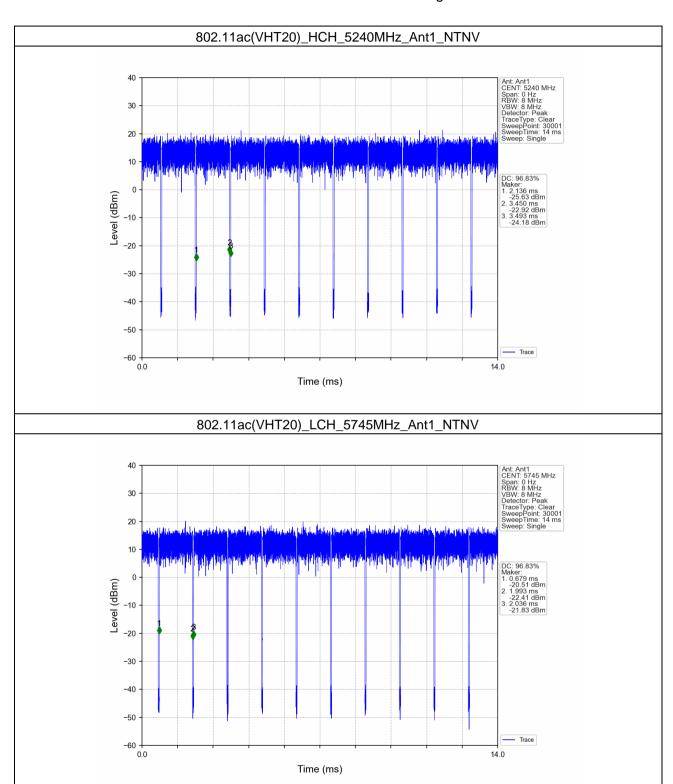
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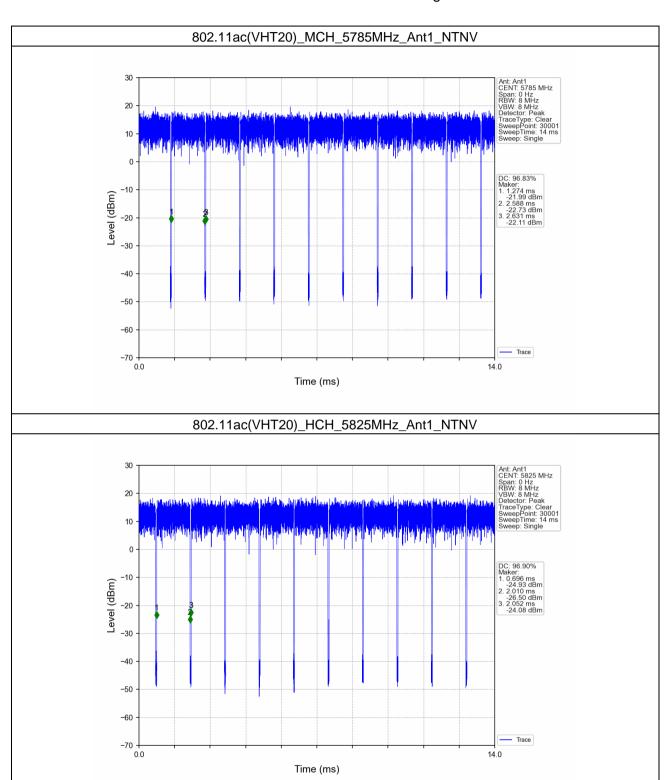
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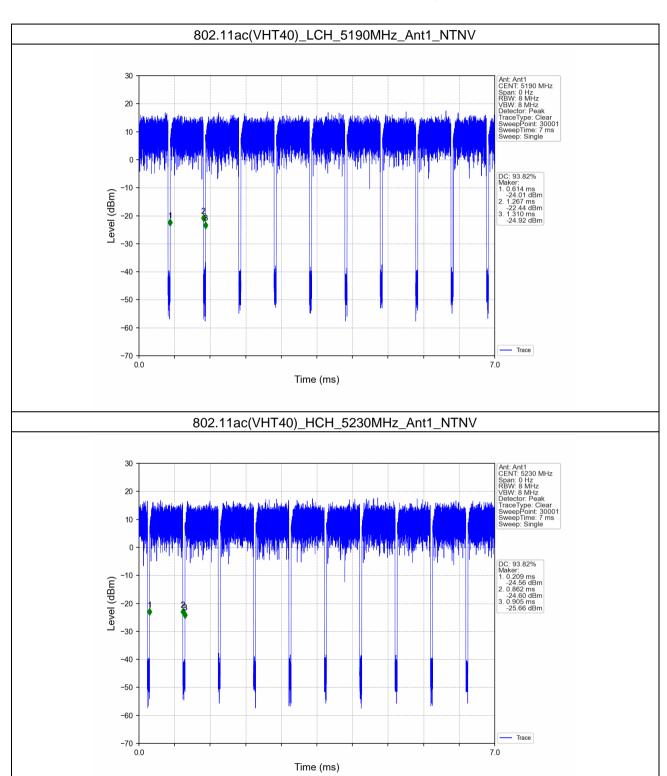
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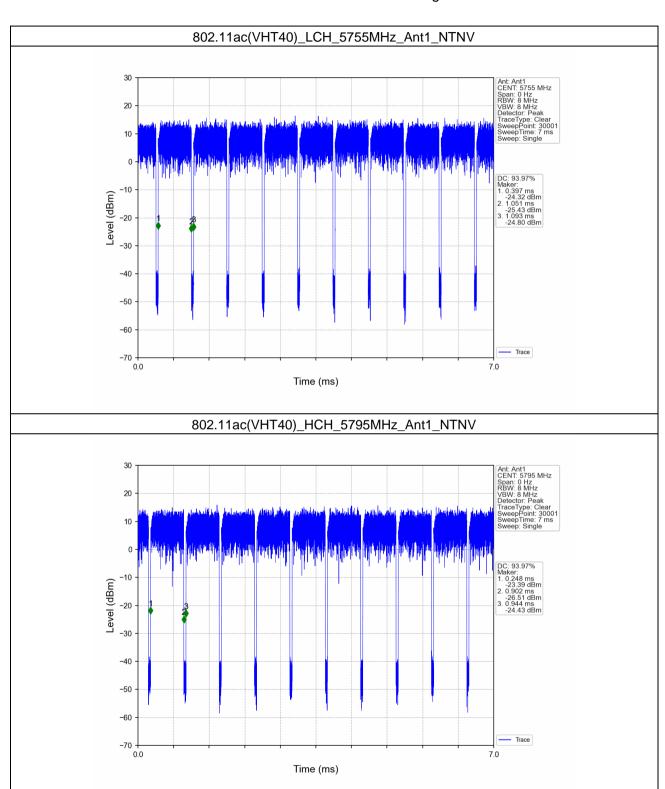
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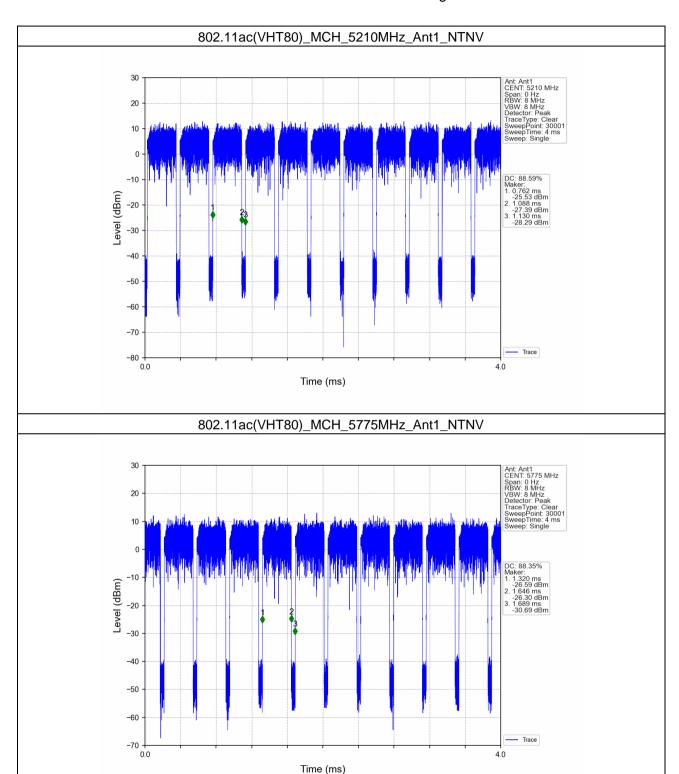
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mada	TX	Frequency	Λ N.T	99% Occupied Bandwidth (MHz)	\/o.rd:o4
Mode	Type	(MHz)	ANT	Result	Verdict
		5180	1	17.433	Pass
		5200	1	17.445	Pass
000 445	CICO	5240	1	17.498	Pass
802.11a	SISO	5745	1	17.561	Pass
		5785	1	17.591	Pass
		5825	1	17.529	Pass
		5180	1	18.452	Pass
		5200	1	18.505	Pass
802.11n	CICO	5240	1	18.435	Pass
(HT20)	SISO	5745	1	18.495	Pass
		5785	1	18.499	Pass
		5825	1	18.454	Pass
	SISO	5190	1	36.663	Pass
802.11n		5230	1	36.640	Pass
(HT40)		5755	1	36.861	Pass
		5795	1	36.812	Pass
		5180	1	18.288	Pass
		5200	1	18.315	Pass
802.11ac	CICO	5240	1	18.232	Pass
(VHT20)	SISO	5745	1	18.341	Pass
		5785	1	18.364	Pass
		5825	1	18.298	Pass
		5190	1	36.578	Pass
802.11ac	0100	5230	1	36.526	Pass
(VHT40)	SISO	5755	1	36.592	Pass
		5795	1	36.483	Pass
802.11ac	CICO	5210	1	75.604	Pass
(VHT80)	SISO	5775	1	75.876	Pass



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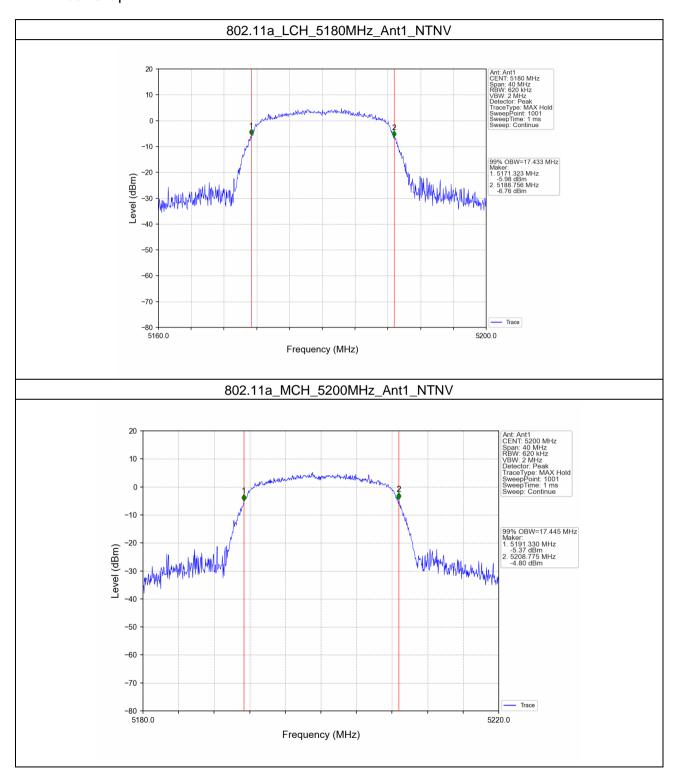


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2.1.2 Test Graph





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