

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240600210105

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# TEST REPORT

**Application No.:** SZCR2406002101MO

Applicant: Shanghai Sunmi Technology Co.,Ltd.

**Address of Applicant:** Room 505, No. 388, Song Hu Road, Yang Pu District, Shanghai, China

Manufacturer: Shanghai Sunmi Technology Co.,Ltd.

**Address of Manufacturer:** Room 505, No. 388, Song Hu Road, Yang Pu District, Shanghai, China

**EUT Description:** Smart Module QLB12-21 Model No.: Trade Mark: **SUNMI** 

FCC ID: 2AH2524QLB1221

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

Date of Receipt: 2024-06-04

2024-06-08 to 2024-07-12 **Date of Test:** 

Date of Issue: 2024-07-16

Pass\* Test Result:

Ceny. Ku

Keny Xu **EMC Laboratory Manager** 



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record					
Version	Chapter	Date	Modifier	Remark		
01		2024-07-16		Original		

Authorized for issue by:	
	Dorjar. Hu ang
	Donjon Huang/Project Engineer
	Exic Fu
	Eric Fu/Reviewer



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#### 2 **Test Summary**

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15,	N/A	47 CFR Part 15, Subpart C 15.203	Pass		
Transmission in the Absence of Data	Subpart E 15.407	N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass		

Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		KDB 789033 D02 II E	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Channel Move Time	47 CFR Part 15,	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Duty Cycle	Subpart E 15.407	KDB 789033 II B 1	KDB 789033 D02 II B 1	Pass
99% Bandwidth		KDB 789033 II D	N/A	Pass
26dB Emission bandwidth		KDB 789033 D02 II C 1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band )		KDB 789033 D02 II C 2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		KDB 789033 D02 II F	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass



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### **General Information**

#### 4.1 Details of E.U.T.

EUT Description:	Smart Module				
Model No.:	QLB12-21				
Trade Mark:	SUNMI	SUNMI			
Hardware Version:	R1.0				
Software Version:	SG656VGL	.NUR01A04			
Power Supply:	DC 4V				
	802.11a:	20 MHz channel band	width		
WLAN Mode Supported:	802.11n:	20 MHz / 40 MHz cha	nnel bandwidth		
	802.11ac:	20 MHz / 40 MHz / 80	MHz channel bandwidth		
	5150MHz to	o 5250MHz			
O	5250MHz to	o 5350MHz			
Operation Frequency:	5470MHz to	o 5725MHz			
	5725MHz to	o 5850MHz			
	802.11a:	OFDM (BPSK, QPSK	, 16QAM, 64QAM)		
Modulation Type:	802.11n:	302.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)			
	802.11ac:	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
	20MHz:	z: 802.11a/n(HT20)/ac(VHT20)			
Channel Spacing:	40MHz:	40MHz: 802.11n(HT40)/ac(VHT40)			
	80MHz:	80MHz: 802.11ac(VHT80)			
Antenna Type:		l,			
	5150MHz to	o 5250MHz: 3dBi;			
	5250MHz to 5350MHz: 3dBi;				
	5470MHz to 5725MHz: 3dBi;				
Antenna Gain:	5725MHz to 5850MHz: 3dBi;				
	Note:				
	The antenna gain are derived from the gain information report provided by the manufacturer.				
Smart System:	⊠ siso	O 802.11a/n/ac			
TPC Function:	⊠Support,	☐Not Support			
DEC Function:	☐Master				
DFS Function:	☐Slave wi	th radar detection	⊠Slave without radar detection		
	4900MHz ~	-5250MHz(1.5dB)	5250MHz ~5350MHz(1.7dB)		
RF Cable:	1000111112		=====================================		



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### Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.				
Mother board	Sunmi	SMART-5G-EVB_V1.3				
Adapter	Dong Guan City GangQi Electronic Co.,Ltd	GQ36-120300-AX				
Remark: all above the information of table are provided by client.						

### 4.3 Measurement Uncertainty

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

### Remark:

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispr/ETSI</sub> (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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#### **Equipment List** 5

Conducted Emissions at AC Power Line (150kHz-30MHz)							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13		
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13		
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19		
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19		
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A		
Coaxial Cable	SGS	NI/A	SEM024-01	2023-07-07	2024-07-06		
Coaxiai Cable	363	N/A	SEIVIU24-U I	2024-07-06	2025-07-05		
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18		
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13		

Maximum Conducted output power						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26	
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13	
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18	
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18	
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	
Conviol Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06	
Coaxial Cable				2024-07-06	2025-07-05	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26	
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18	



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Radiated Emissions (Below 1GHz)						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19	
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18	
MXE EMI Receiver	EMI Receiver Agilent Technologies		SEM004-15	2023-10-19	2024-10-18	
BiConiLog Antenna	og Antenna ETS-LINDGREN		SEM003-01	2023-09-16	2025-09-15	
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Cooviel Coble	202	N/A	SEMONE 01	2023-07-07	2024-07-06	
Coaxial Cable	SGS		SEM025-01	2024-07-06	2025-07-05	

Radiated Emissions (Above 1GHz)							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29		
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024-01-30	2025-01-29		
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024-01-30	2025-01-29		
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20		
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24		
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	N/A	N/A		
Chamber CRTSGSSAC966		N/A	SZ-WRG-C-063	2022-01-05	2025-01-04		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-077	2024-05-28	2025-05-27		



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Radiated Emissions which fall in the restricted bands							
Equipment	Manufacturer	Model No. Inventory No.		Cal Date	Cal Due Date		
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29		
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2024-01-30	2025-01-29		
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20		
SHF-EHF Horn 15GHz- 40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24		
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	N/A	N/A		
Chamber CRTSGSSAC966		N/A	SZ-WRG-C-063	2022-01-05	2025-01-04		
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-077	2024-05-28	2025-05-27		

Channel Move Time							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26		
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2024-03-27	2025-03-26		
Measurement Software	KEYSIGHT	Signal Studio for DFS Radar Profiles V2.2.0.0	N/A	N/A	N/A		
Measurement Software Agilent		ISMonitor10	N/A	N/A	N/A		
MXG Vector Signal Agilent		N5182A	SEM006-21	2024-03-27	2025-03-26		
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2024-03-14	2025-03-13		



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RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50- 1	620_SMA-50- 1 SEM021-09		2025-03-26
Programmable Votsch Temperature & Humidity Industrietechnik Chamber GmbH		VT 4002	SEM002-15	2024-03-19	2025-03-18
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2024-03-27	2025-03-26
Manual Step Attenuator KEYSIGHT		8496B	SEM021-06	2024-03-27	2025-03-26
MXG Vector Signal Generator Agilent		N5182A	SEM006-21	2024-03-27	2025-03-26
MXA Signal Analyzer KEYSIGHT		N9020A	SEM004-22	2024-03-14	2025-03-13

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

Remark: NCR=No Calibration Requirement.



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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 External Antenna on the main PCB and no consideration of replacement.

The best case gain of the antenna is

5150MHz to 5250MHz: 3dBi;\* 5250MHz to 5350MHz: 3dBi;\* 5470MHz to 5725MHz: 3dBi;\* 5725MHz to 5850MHz: 3dBi;\*

#### \*Note:

The antenna gain are derived from the gain information report provided by the manufacturer.

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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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:

Frequency of emission(MHz)	Conducted limit(dB $\mu$ V)				
Frequency of emission(MHZ)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of the frequency.					

### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 46.9 % RH Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

7.1.2 Took mode becomption						
Pre-scan / Final test	Mode Code	Description				
Final test	09	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	10	TX mode (U-NII-2A) _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	11	TX mode (U-NII-2C) _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	12	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				



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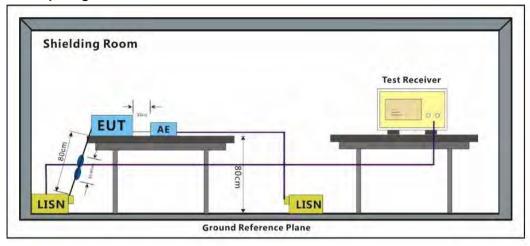


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recorded in the report.

### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

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

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



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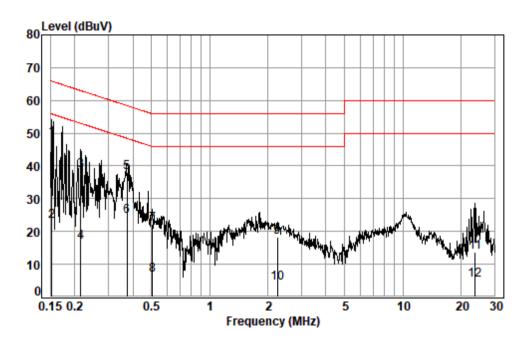


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Test Mode: 09; Line: Live line



Site : Shielding Room

Condition: Line Job No. : 02101MO

Test mode: 09

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.1524	0.02	9.48	38.91	48.41	65.87	-17.46	QP
2		0.1524	0.02	9.48	13.52	23.02	55.87	-32.85	Average
3		0.2151	0.03	9.48	29.13	38.64	63.01	-24.37	QP
4		0.2151	0.03	9.48	7.27	16.78	53.01	-36.23	Average
5		0.3731	0.03	9.56	28.47	38.06	58.43	-20.37	QP
6	*	0.3731	0.03	9.56	14.97	24.56	48.43	-23.87	Average
7		0.5047	0.04	9.69	12.47	22.20	56.00	-33.80	QP
8		0.5047	0.04	9.69	-3.13	6.60	46.00	-39.40	Average
9		2.2486	0.07	9.46	8.78	18.31	56.00	-37.69	QP
10		2.2486	0.07	9.46	-5.34	4.19	46.00	-41.81	Average
11		23.6361	0.30	10.13	3.34	13.77	60.00	-46.23	QP
12		23.6361	0.30	10.13	-5.23	5.20	50.00	-44.80	Average



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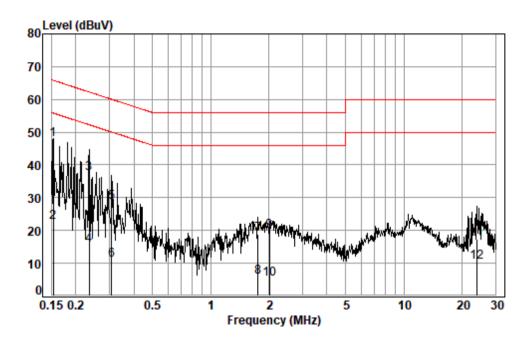


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Test Mode: 09; Line: Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 02101MO

Test mode: 09

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	* 0.1532	0.02	9.63	38.07	47.72	65.82	-18.10	QP
2 *	* 0.1532	0.02	9.63	12.94	22.59	55.82	-33.23	Average
3	0.2353	0.03	9.67	27.66	37.36	62.26	-24.90	QP
4	0.2353	0.03	9.67	5.71	15.41	52.26	-36.85	Average
5	0.3067	0.03	9.70	18.84	28.57	60.06	-31.49	QP
6	0.3067	0.03	9.70	1.18	10.91	50.06	-39.15	Average
7	1.7623	0.07	9.76	8.98	18.81	56.00	-37.19	QP
8	1.7623	0.07	9.76	-4.12	5.71	46.00	-40.29	Average
9	2.0119	0.07	9.80	9.92	19.79	56.00	-36.21	QP
10	2.0119	0.07	9.80	-4.56	5.31	46.00	-40.69	Average
11	24.0148	0.30	10.36	6.72	17.38	60.00	-42.62	QP
12	24.0148	0.30	10.36	-0.30	10.36	50.00	-39.64	Average



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### 7.2 Maximum Conducted output power

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

KDB 789033 D02 II E Test Method:

#### Limit:

Frequen	cy band(MHz)	Limit		
F1F0	E2E0	≤1W(30dBm) for master device		
5150-	5250	≤250mW(24dBm) for client device		
5250-	5350	≤250mW(24dBm) or 11dBm+10logB*		
5470-	5725	≤250mW(24dBm) or 11dBm+10logB*		
5725-	5850	≤1W(30dBm)		
Remark:	* Where B is the	e 26dB emission bandwidth in MHz.		
	The maximum conducted output power must be measured over any integrate of continuous transmission using instrumentation calibrated in terms of rms-equivalent voltage.			

### 7.2.1 E.U.T. Operation

Operating Environment:

Humidity: 42.4 % RH Temperature: 24.9 °C Atmospheric Pressure: 1020 mbar

### 7.2.2 Test Mode Description

7.2.2 Test mode Description						
Pre-scan / Final test	Mode Code	Description				
Final test	09	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	10	TX mode (U-NII-2A) _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	11	TX mode (U-NII-2C) _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	12	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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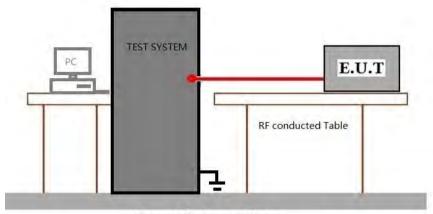
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### 7.2.3 Test Setup Diagram



Ground Reference Plane

#### 7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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### 7.3 Radiated Emissions (Below 1GHz)

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		
960-1000	500	3		

### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

### 7.3.2 Test Mode Description

7.3.2 Test wide Description									
Pre-scan / Final test	Mode Code	Description							
Final test	09	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	10	TX mode (U-NII-2A) _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	11	TX mode (U-NII-2C) _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	12	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							



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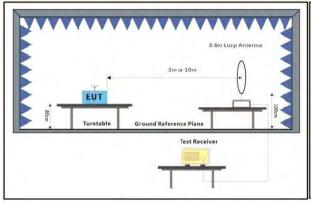
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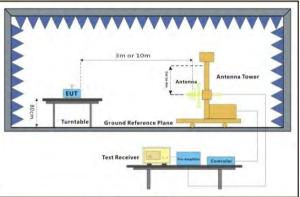
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is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

### 7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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#### 7.3.4 Measurement Procedure and Data

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

#### Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
- 3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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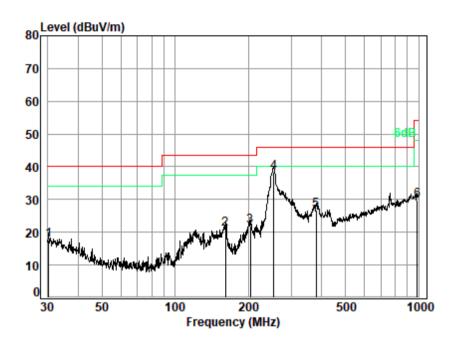


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Test Mode: 09; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 02101MO

Test Mode: 09

	Ant		Cable	Cable Preamp Loss Factor		d Limit		0ver		
	Freq	Freq Factor				Level	Line	Limit	Remark	
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1	30.21	21.10	0.64	27.79	23.68	17.63	40.00	-22.37	QP	
2	160.91	13.53	1.52	27.33	33.41	21.13	43.50	-22.37	QP	
3	204.24	14.47	1.75	27.15	32.79	21.86	43.50	-21.64	QP	
4 q	254.73	17.31	1.97	26.94	45.87	38.21	46.00	-7.79	QP	
5	379.91	20.91	2.47	27.07	30.52	26.83	46.00	-19.17	QP	
6	986.07	28.04	4.31	26.15	23.69	29.89	54.00	-24.11	OP.	



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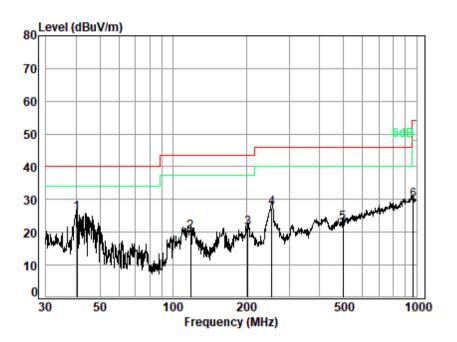


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Test Mode: 09; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 02101MO

Test Mode: 09

	Ant		Cable Preamp		Read			0ver	•	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark	
_	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB		
1 q	40.28	16.28	0.75	27.76	36.46	25.73	40.00	-14.27	QP	
2	118.19	11.18	1.29	27.51	35.16	20.12	43.50	-23.38	QP	
3	202.81	14.35	1.74	27.16	32.28	21.21	43.50	-22.29	QP	
4	254.73	17.31	1.97	26.94	35.06	27.40	46.00	-18.60	QP	
5	497.68	22.87	2.88	27.55	24.53	22.73	46.00	-23.27	QP	
6	968.93	28.19	4.27	26.27	23.54	29.73	54.00	-24.27	OP	



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### 7.4 Radiated Emissions (Above 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

#### Limit:

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

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

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

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 51.8 % RH Atmospheric Pressure: 1020 mbar

### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	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.



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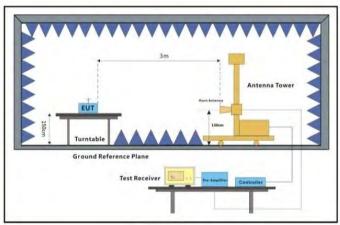
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Final test	10	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 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	11	TX mode (U-NII-2C) _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	12	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



Above 1GHz



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#### 7.4.4 Measurement Procedure and Data

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

#### Remark:

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



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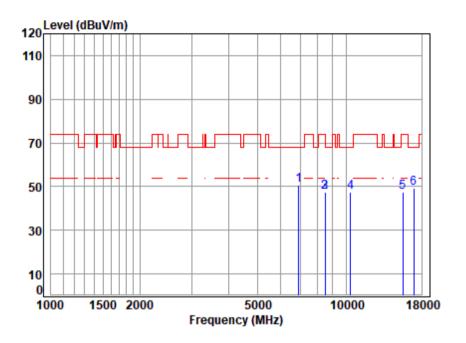


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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5180 TX RSE

: 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	pp 6902.598	11.37	36.19	56.72	59.92	50.76	68.20	-17.44	peak
2	8496.769	12.29	38.31	55.45	52.43	47.58	74.00	-26.42	peak
3	8496.769	12.29	38.31	55.45	52.43	47.58	74.00	-26.42	peak
4	10360.000	13.60	39.00	53.88	48.87	47.59	68.20	-20.61	peak
5	15540.000	17.00	38.56	54.14	45.86	47.28	74.00	-26.72	peak
6	16932.880	18.14	39.63	54.28	45.87	49.36	68.20	-18.84	peak



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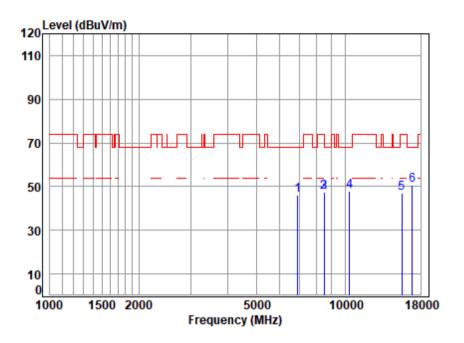


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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5180 TX RSE

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1	6902.598	11.37	36.19	56.72	55.26	46.10	68.20	-22.10	peak
2	8496.769	12.29	38.31	55.45	52.20	47.35	74.00	-26.65	peak
3	8496.769	12.29	38.31	55.45	52.20	47.35	74.00	-26.65	peak
4	10360.000	13.60	39.00	53.88	49.18	47.90	68.20	-20.30	peak
5	15540.000	17.00	38.56	54.14	45.80	47.22	74.00	-26.78	peak
6	pp16881.220	18.04	39.60	54.26	47.06	50.44	68.20	-17.76	peak



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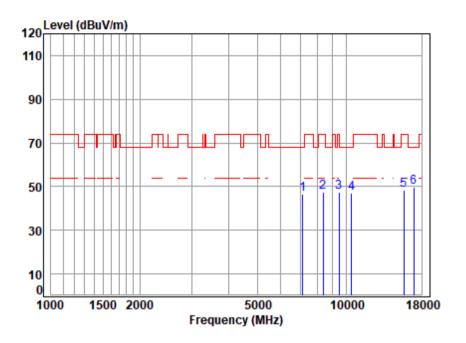


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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5220 TX RSE

: 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	
7131.289	11.84	36.46	56.59	54.61	46.32	68.20	-21.88	peak
8359.419	11.68	38.68	55.58	52.57	47.35	74.00	-26.65	peak
9446.244	12.42	38.80	54.60	50.93	47.55	74.00	-26.45	peak
10440.000	13.63	39.04	53.84	48.22	47.05	68.20	-21.15	peak
15660.000	17.23	38.56	54.10	46.52	48.21	74.00	-25.79	peak
pp16950.140	18.12	39.65	54.29	46.24	49.72	68.20	-18.48	peak



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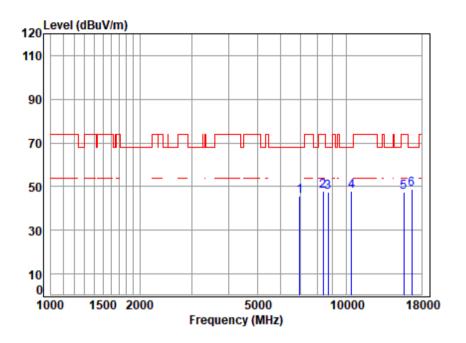


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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5220 TX RSE

: 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	6959.073	11.37	36.12	56.71	55.02	45.80	68.20	-22.40	peak
2	8342.406	11.70	38.58	55.59	53.42	48.11	74.00	-25.89	peak
3	8698.174	12.09	38.59	55.27	51.90	47.31	68.20	-20.89	peak
4	10440.000	13.63	39.04	53.84	48.99	47.82	68.20	-20.38	peak
5	15660.000	17.23	38.56	54.10	45.80	47.49	74.00	-26.51	peak
6	pp16693.140								-



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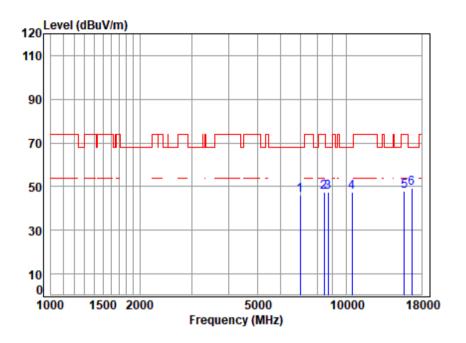


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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5240 TX RSE

: 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	6987.484	11.37	36.17	56.70	55.31	46.15	68.20	-22.05	peak
2	8419.234	11.76	38.52	55.52	52.54	47.30	74.00	-26.70	peak
3	8671.635	12.05	38.49	55.30	52.26	47.50	68.20	-20.70	peak
4	10480.000	13.64	39.08	53.81	48.57	47.48	68.20	-20.72	peak
5	15720.000	17.22	38.58	54.08	46.18	47.90	74.00	-26.10	peak
6	pp16710.150	17.58	39.42	54.21	46.44	49.23	68.20	-18.97	peak



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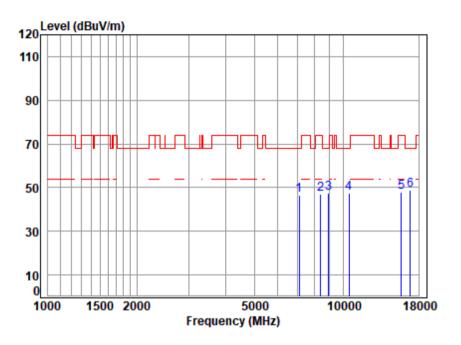


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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5240 TX RSE

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB		dB				——dB	
1	7102.293	11.98	36.40	56.62	54.75	46.51	68.20	-21.69	peak
2	8385.002	11.65	38.63	55.55	52.26	46.99	74.00	-27.01	peak
3	8913.427	12.21	38.57	55.08	51.63	47.33	68.20	-20.87	peak
4	10480.000	13.64	39.08	53.81	48.33	47.24	68.20	-20.96	peak
5	15720.000	17.22	38.58	54.08	46.33	48.05	74.00	-25.95	peak
6	pp16864.040								-



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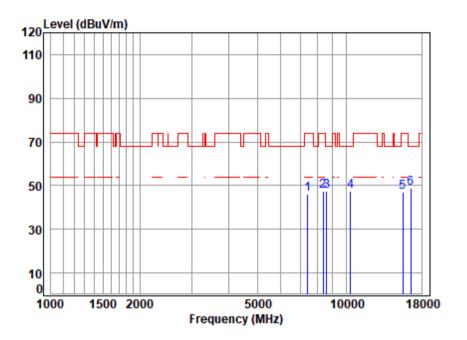


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5180 TX RSE

: 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	7420.276	11.45	36.74	56.36	54.26	46.09	74.00	-27.91	peak
2	8350.908	11.69	38.70	55.58	52.43	47.24	74.00	-26.76	peak
3	8575.019	12.05	38.40	55.38	52.34	47.41	68.20	-20.79	peak
4	10360.000	13.60	39.00	53.88	48.61	47.33	68.20	-20.87	peak
5	15540.000	17.00	38.56	54.14	45.74	47.16	74.00	-26.84	peak
6	pp16540.810	17.70	39.02	54.16	46.13	48.69	68.20	-19.51	peak



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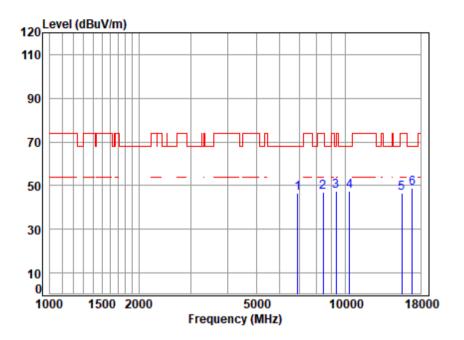


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5180 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	6909.632	11.37	36.18	56.72	55.75	46.58	68.20	-21.62	peak
2									
3	9303.017	12.17	38.80	54.73	51.32	47.56	74.00	-26.44	peak
4	10360.000	13.60	39.00	53.88	48.59	47.31	68.20	-20.89	peak
5	15540.000	17.00	38.56	54.14	45.26	46.68	74.00	-27.32	peak
6	pp16898.430	18.17	39.60	54.27	45.27	48.77	68.20	-19.43	peak



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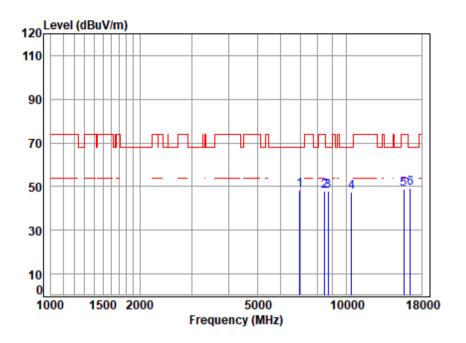


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5220 TX RSE

: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1	6959.073	11.37	36.12	56.71	57.44	48.22	68.20	-19.98	peak
2	8453.606	11.99	38.39	55.49	52.83	47.72	74.00	-26.28	peak
3	8671.635	12.05	38.49	55.30	52.74	47.98	68.20	-20.22	peak
4	10440.000	13.63	39.04	53.84	48.47	47.30	68.20	-20.90	peak
5	15660.000	17.23	38.56	54.10	46.98	48.67	74.00	-25.33	peak
6	pp16507.140	17.73	38.92	54.15	47.00	49.50	68.20	-18.70	peak



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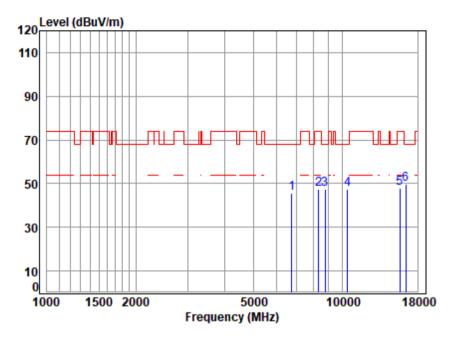


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5220 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6742.769	11.39	35.66	56.75	55.38	45.68	68.20	-22.52	peak
2	8333.913	11.72	38.44	55.60	52.80	47.36	74.00	-26.64	peak
3	8742.585	12.16	38.51	55.23	51.86	47.30	68.20	-20.90	peak
4	10440.000	13.63	39.04	53.84	48.68	47.51	68.20	-20.69	peak
5	15660.000	17.23	38.56	54.10	46.28	47.97	74.00	-26.03	peak
6	pp16440.030	17.39	38.84	54.13	47.45	49.55	68.20	-18.65	peak



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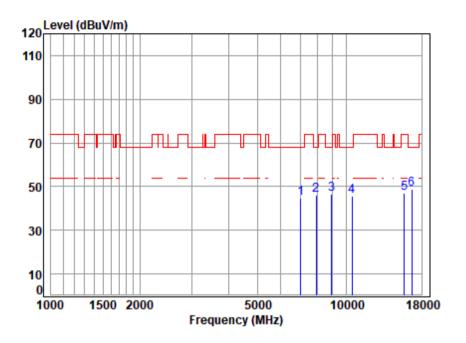


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5240 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7016.012	11.47	36.23	56.69	53.90	44.91	68.20	-23.29	peak
2	7920.106	11.54	37.64	55.96	53.06	46.28	68.20	-21.92	peak
3	8913.427	12.21	38.57	55.08	50.99	46.69	68.20	-21.51	peak
4	10480.000	13.64	39.08	53.81	46.94	45.85	68.20	-22.35	peak
5	15720.000	17.22	38.58	54.08	45.32	47.04	74.00	-26.96	peak
6	pp16693.140								-



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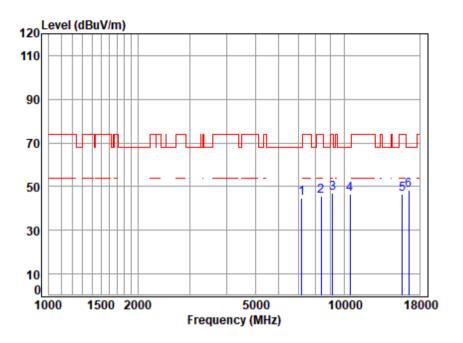


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5240 TX RSE

: 5G WIFI 11AC20

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7167.700	11.67	36.54	56.57	52.96	44.60	68.20	-23.60	peak
2	8367.938	11.67	38.66	55.57	51.02	45.78	74.00	-28.22	peak
3	9124.708	12.17	38.65	54.89	51.27	47.20	74.00	-26.80	peak
4	10480.000	13.64	39.08	53.81	47.71	46.62	68.20	-21.58	peak
5	15720.000	17.22	38.58	54.08	44.60	46.32	74.00	-27.68	peak
6	pp16523.970	17.72	38.97	54.16	45.98	48.51	68.20	-19.69	peak



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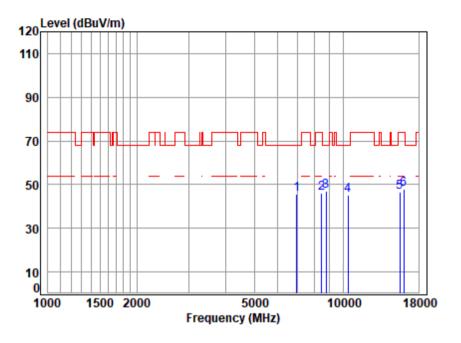


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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5190 TX RSE

: 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	
4	6050 073	44 27	26.42	FC 74	FA 76	45 54	60.00	22.66	
1	6959.073	11.3/	36.12	56./1	54./6	45.54	68.20	-22.66	реак
2	8445.000	11.94	38.42	55.50	51.15	46.01	74.00	-27.99	peak
3	pp 8742.585	12.16	38.51	55.23	51.55	46.99	68.20	-21.21	peak
4	10380.000	13.61	39.00	53.87	46.35	45.09	68.20	-23.11	peak
5	15570.000	17.09	38.53	54.13	45.09	46.58	74.00	-27.42	peak
6	16043.010	17.12	38.56	54.01	46.42	48.09	74.00	-25.91	peak



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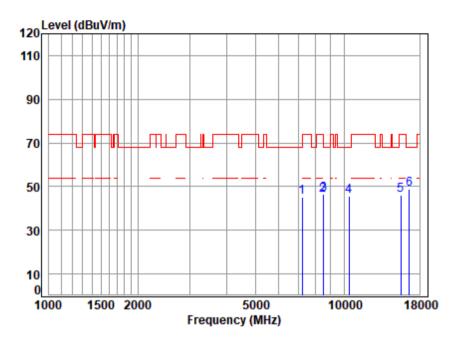


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5190 TX RSE

: 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	7196.963	11.53	36.59	56.54	53.42	45.00	68.20	-23.20	peak
2	8488.119	12.23	38.32	55.46	50.87	45.96	74.00	-28.04	peak
3	8505.428	12.29	38.30	55.45	51.57	46.71	68.20	-21.49	peak
4	10380.000	13.61	39.00	53.87	46.87	45.61	68.20	-22.59	peak
5	15570.000	17.09	38.53	54.13	44.57	46.06	74.00	-27.94	peak
6	pp16608.340	17.64	39.22	54.18	46.11	48.79	68.20	-19.41	peak



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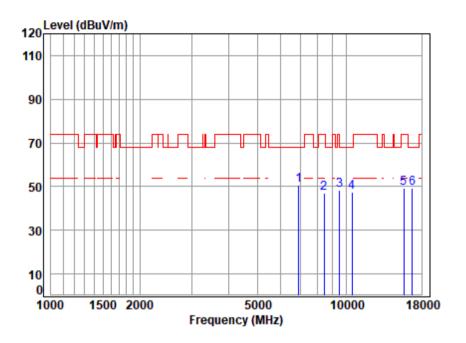


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5230 TX RSE

: 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 p	p 6916.673	11.37	36.17	56.72	59.70	50.52	68.20	-17.68	peak
2	8436.402	11.88	38.45	55.51	52.31	47.13	74.00	-26.87	peak
3	9504.150	12.55	38.89	54.55	51.42	48.31	68.20	-19.89	peak
4	10460.000	13.63	39.06	53.82	48.73	47.60	68.20	-20.60	peak
5	15690.000	17.26	38.59	54.09	47.42	49.18	74.00	-24.82	peak
6	16727.180	17.55	39.45	54.22	46.48	49.26	68.20	-18.94	peak



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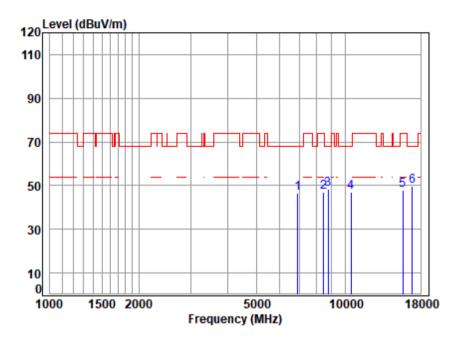


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5230 TX RSE

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6916.673	11.37	36.17	56.72	55.73	46.55	68.20	-21.65	peak
2	8445.000	11.94	38.42	55.50	52.22	47.08	74.00	-26.92	peak
3	8751.494	12.17	38.50	55.22	52.92	48.37	68.20	-19.83	peak
4	10460.000	13.63	39.06	53.82	48.23	47.10	68.20	-21.10	peak
5	15690.000	17.26	38.59	54.09	46.33	48.09	74.00	-25.91	peak
6	pp16864.040	17.92	39.60	54.26	46.69	49.95	68.20	-18.25	peak



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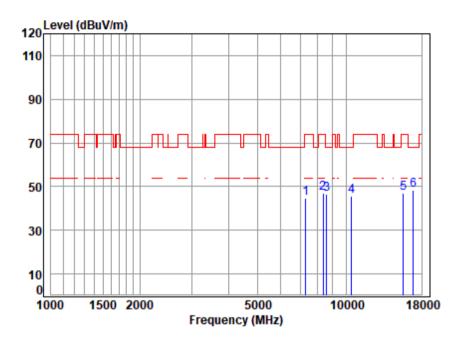


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5210 TX RSE

: 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	
	7000 005		26.60	56.47	F0 06	44.50	74.00		
1	7292.895	11.51	36.69	56.4/	52.86	44.59	/4.00	-29.41	peak
2	8350.908	11.69	38.70	55.58	52.08	46.89	74.00	-27.11	peak
3	8601.261	11.96	38.50	55.36	51.50	46.60	68.20	-21.60	peak
4	10420.000	13.62	39.02	53.85	46.79	45.58	68.20	-22.62	peak
5	15630.000	17.20	38.53	54.11	45.33	46.95	74.00	-27.05	peak
6	pp16881.220	18.04	39.60	54.26	44.87	48.25	68.20	-19.95	peak



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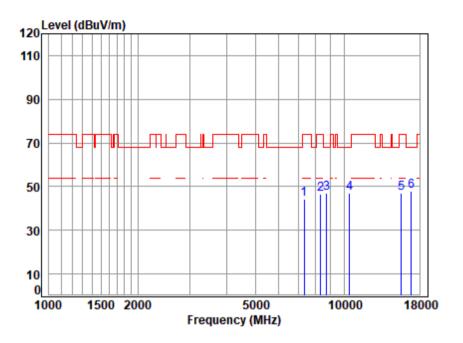


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5210 TX RSE

: 5G WIFI 11AC80

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz			dB		dRuV/m	dRuV/m	dB	
11112	ub.	ub/iii	ub	abav	ubuv/III	ubuv/III	ub	
7322.668	11.51	36.75	56.44	52.66	44.48	74.00	-29.52	peak
8325.429	11.73	38.31	55.61	51.93	46.36	74.00	-27.64	peak
8733.685	12.14	38.53	55.24	51.43	46.86	68.20	-21.34	peak
10420.000	13.62	39.02	53.85	48.09	46.88	68.20	-21.32	peak
15630.000	17.20	38.53	54.11	45.25	46.87	74.00	-27.13	peak
pp16881.220	18.04	39.60	54.26	44.69	48.07	68.20	-20.13	peak



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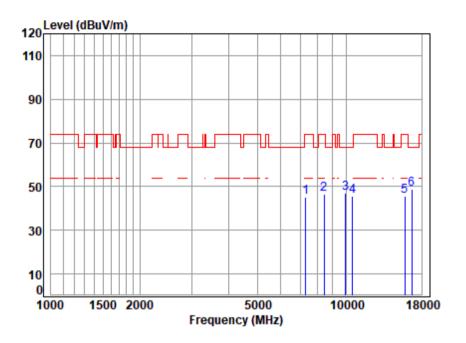


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 48 of 357

Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5260 TX RSE

: 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	7292.895	11.51	36.69	56.47	53.26	44.99	74.00	-29.01	peak
2	8419.234	11.76	38.52	55.52	51.71	46.47	74.00	-27.53	peak
3	9949.918	12.90	38.90	54.15	49.53	47.18	68.20	-21.02	peak
4	10520.000	13.63	39.14	53.79	46.61	45.59	68.20	-22.61	peak
5	15780.000	17.08	38.52	54.07	44.22	45.75	74.00	-28.25	peak
6	pp16693.140	17.59	39.39	54.21	45.97	48.74	68.20	-19.46	peak



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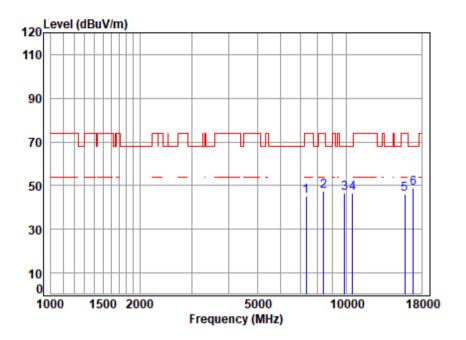


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5260 TX RSE

: 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	7330.131	11.51	36.76	56.44	53.56	45.39	74.00	-28.61	peak
2	8376.465	11.66	38.65	55.56	52.54	47.29	74.00	-26.71	peak
3	9889.295	12.83	38.66	54.20	49.20	46.49	68.20	-21.71	peak
4	10520.000	13.63	39.14	53.79	47.59	46.57	68.20	-21.63	peak
5	15780.000								-
6	pp16898.430	18.17	39.60	54.27	45.11	48.61	68.20	-19.59	peak



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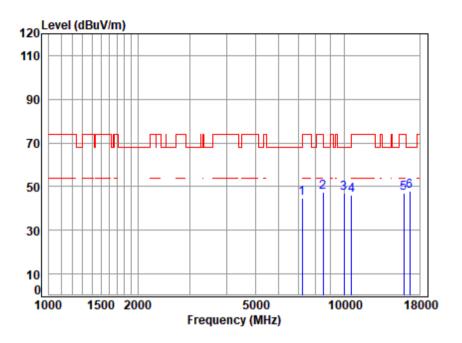


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Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5300 TX RSE

: 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	7204.297	11.52	36.60	56.54	52.97	44.55	68.20	-23.65	peak
2	8488.119	12.23	38.32	55.46	52.35	47.44	74.00	-26.56	peak
3	10000.720	13.01	38.90	54.10	49.38	47.19	68.20	-21.01	peak
4	10600.000	13.59	39.30	53.74	46.89	46.04	68.20	-22.16	peak
5	15900.000	17.28	38.70	54.03	44.83	46.78	74.00	-27.22	peak
6	pp16710.150	17.58	39.42	54.21	45.06	47.85	68.20	-20.35	peak



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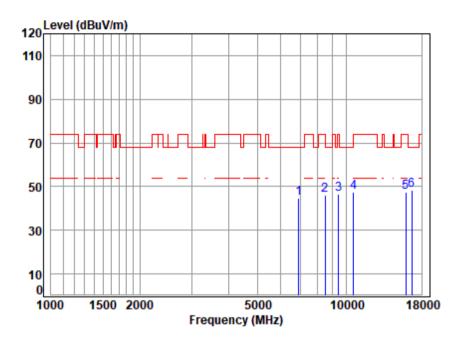


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5300 TX RSE

: 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	6909.632	11.37	36.18	56.72	53.75	44.58	68.20	-23.62	peak
2	8496.769	12.29	38.31	55.45	51.03	46.18	74.00	-27.82	peak
3	9427.021	12.37	38.80	54.62	50.13	46.68	74.00	-27.32	peak
4	10600.000	13.59	39.30	53.74	48.40	47.55	68.20	-20.65	peak
5	15900.000	17.28	38.70	54.03	45.41	47.36	74.00	-26.64	peak
6	pp16710.150	17.58	39.42	54.21	45.59	48.38	68.20	-19.82	peak



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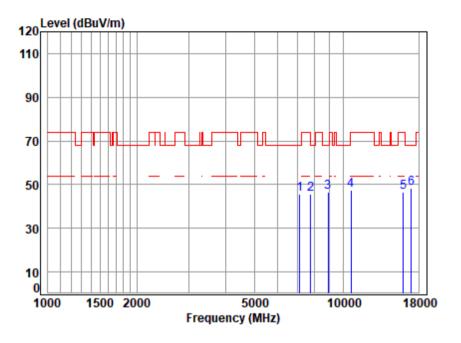


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5320 TX RSE

: 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	
	7446 776	44 04	26.42	56.64	F3 00	45 63	60.00	22 57	
1	7116.776	11.91	36.43	56.61	53.90	45.63	68.20	-22.5/	peak
2	7760.396	11.37	37.04	56.09	53.39	45.71	68.20	-22.49	peak
3	8904.353	12.22	38.59	55.09	51.01	46.73	68.20	-21.47	peak
4	10640.000	13.77	39.34	53.72	47.86	47.25	74.00	-26.75	peak
5	15960.000	17.20	38.64	54.01	44.92	46.75	74.00	-27.25	peak
6	pp16984.710	18.09	39.68	54.30	44.84	48.31	68.20	-19.89	peak



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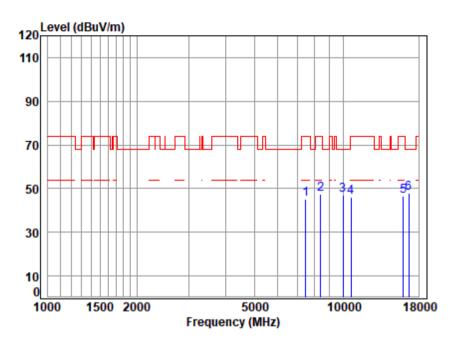


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5320 TX RSE

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7458.163	11.34	36.80	56.33	53.22	45.03	74.00	-28.97	peak
2	8385.002								•
3	9970.208	12.95	38.90	54.13	49.48	47.20	68.20	-21.00	peak
4	10640.000	13.77	39.34	53.72	46.54	45.93	74.00	-28.07	peak
5	15960.000	17.20	38.64	54.01	44.50	46.33	74.00	-27.67	peak
6	pp16710.150	17.58	39.42	54.21	45.21	48.00	68.20	-20.20	peak



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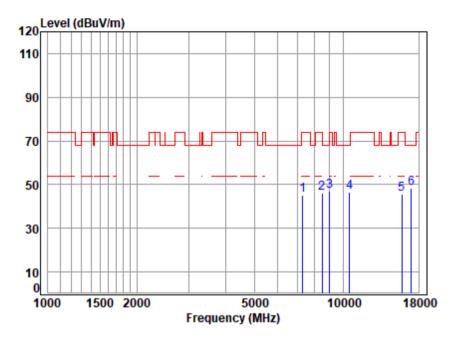


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5260 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7292.895	11.51	36.69	56.47	53.44	45.17	74.00	-28.83	peak
2	8488.119	12.23	38.32	55.46	51.10	46.19	74.00	-27.81	peak
3	9004.680	12.15	38.60	55.00	51.07	46.82	74.00	-27.18	peak
4	10520.000	13.63	39.14	53.79	47.68	46.66	68.20	-21.54	peak
5	15780.000	17.08	38.52	54.07	44.03	45.56	74.00	-28.44	peak
6	pp17002.020	18.08	39.70	54.30	44.72	48.20	68.20	-20.00	peak



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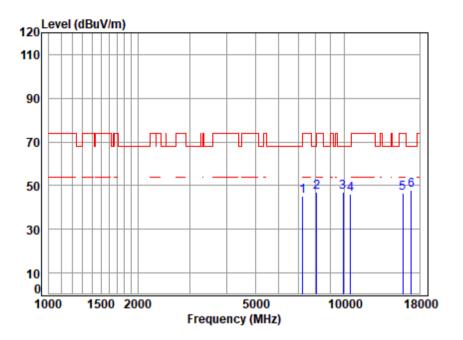


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Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 02101MO Mode : 5260 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7241.082	11.52	36.60	56.51	53.44	45.05	68.20	-23.15	peak
2	8074.876	11.48	37.80	55.83	53.36	46.81	74.00	-27.19	peak
3	9919.560	12.84	38.90	54.17	49.53	47.10	68.20	-21.10	peak
4	10520.000	13.63	39.14	53.79	47.19	46.17	68.20	-22.03	peak
5	15780.000	17.08	38.52	54.07	44.79	46.32	74.00	-27.68	peak
6	pp16864.040	17.92	39.60	54.26	44.68	47.94	68.20	-20.26	peak



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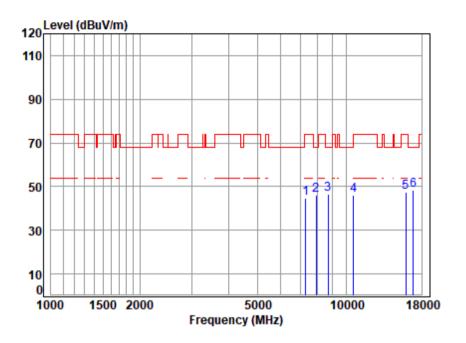


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Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5300 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7300.327	11.51	36.70	56.46	52.89	44.64	74.00	-29.36	peak
2	7920.106								
3	8698.174	12.09	38.59	55.27	51.03	46.44	68.20	-21.76	peak
4	10600.000	13.59	39.30	53.74	47.08	46.23	68.20	-21.97	peak
5	15900.000	17.28	38.70	54.03	45.38	47.33	74.00	-26.67	peak
6	pp16898.430	18.17	39.60	54.27	44.68	48.18	68.20	-20.02	peak



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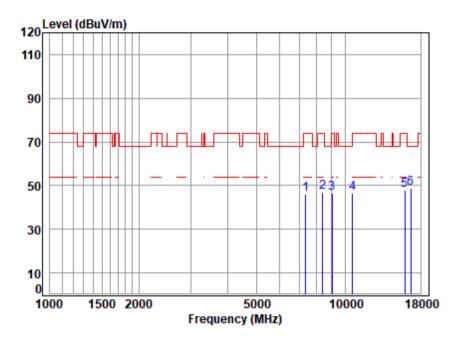


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Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO Mode : 5300 TX RSE

: 5G WIFI 11AC20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dB dBuV dBuV/m dBuV/m 36.78 56.43 1 7337.601 11.51 54.41 46.27 74.00 -27.73 peak 2 8393.547 11.64 38.61 55.55 52.44 47.14 74.00 -26.86 peak 54.96 50.75 46.53 74.00 -27.47 peak 9041.442 12.14 38.60 4 10600.000 13.59 39.30 53.74 47.17 46.32 68.20 -21.88 peak 5 15900.000 17.28 38.70 54.03 45.77 47.72 74.00 -26.28 peak 6 pp16693.140 17.59 39.39 54.21 45.99 48.76 68.20 -19.44 peak



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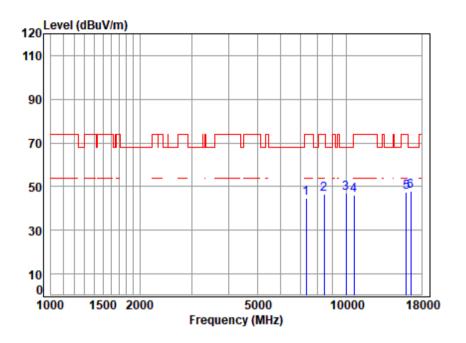


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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5320 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7315.214	11.51	36.73	56.45	52.93	44.72	74.00	-29.28	peak
2	8427.813	11.82	38.49	55.51	51.59	46.39	74.00	-27.61	peak
3	9980.368	12.97	38.90	54.12	49.40	47.15	68.20	-21.05	peak
4	10640.000	13.77	39.34	53.72	46.69	46.08	74.00	-27.92	peak
5	15960.000	17.20	38.64	54.01	45.60	47.43	74.00	-26.57	peak
6	pp16523.970	17.72	38.97	54.16	45.61	48.14	68.20	-20.06	peak



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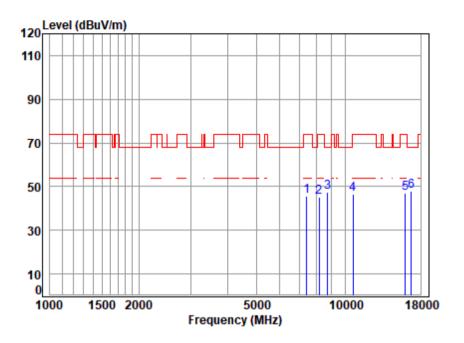


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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5320 TX RSE

: 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	7412.722	11.47	36.73	56.37	53.70	45.53	74.00	-28.47	peak
2	8165.858	11.53	37.93	55.75	51.67	45.38	74.00	-28.62	peak
3	8733.685	12.14	38.53	55.24	51.82	47.25	68.20	-20.95	peak
4	10640.000	13.77	39.34	53.72	47.31	46.70	74.00	-27.30	peak
5	15960.000	17.20	38.64	54.01	45.00	46.83	74.00	-27.17	peak
6	pp16744.220	17.53	39.49	54.22	45.20	48.00	68.20	-20.20	peak



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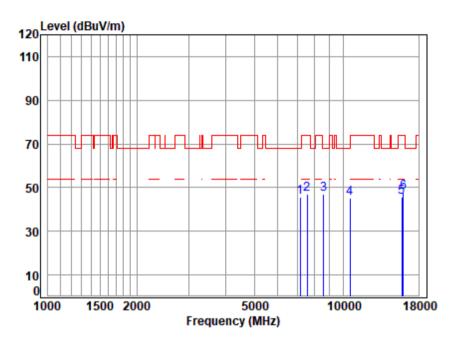


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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5270 TX RSE

: 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	
	74.50 403		26.50						
1	7160.403	11./1	36.52	56.5/	53./9	45.45	68.20	-22./5	peak
2	7557.576	11.15	36.80	56.25	55.08	46.78	74.00	-27.22	peak
3	pp 8583.757	12.02	38.44	55.37	52.01	47.10	68.20	-21.10	peak
4	10540.000	13.62	39.18	53.78	46.06	45.08	68.20	-23.12	peak
5	15810.000	17.06	38.52	54.06	44.31	45.83	74.00	-28.17	peak
6	15994.060	17.16	38.61	54.00	46.19	47.96	74.00	-26.04	peak



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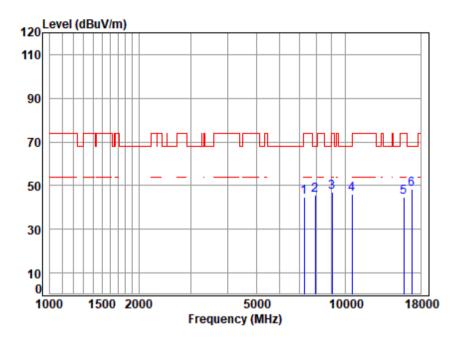


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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5270 TX RSE

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7270.644	11.51	36.64	56.48	53.07	44.74	74.00	-29.26	peak
2	7920.106								
3	9023.043	12.14	38.60	54.98	51.11	46.87	74.00	-27.13	peak
4	10540.000	13.62	39.18	53.78	47.21	46.23	68.20	-21.97	peak
5	15810.000	17.06	38.52	54.06	43.14	44.66	74.00	-29.34	peak
6	pp16778.370	17.49	39.56	54.23	45.65	48.47	68.20	-19.73	peak



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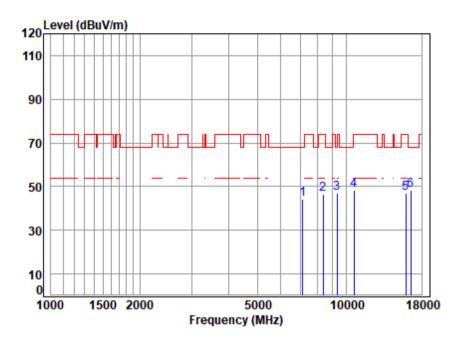


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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5310 TX RSE

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7116.776	11.91	36.43	56.61	52.74	44.47	68.20	-23.73	peak
2	8350.908								
3	9312.497	12.19	38.80	54.72	50.55	46.82	74.00	-27.18	peak
4	10620.000	13.68	39.32	53.73	48.98	48.25	74.00	-25.75	peak
5	15930.000	17.24	38.67	54.02	45.26	47.15	74.00	-26.85	peak
6	pp16574.540	17.67	39.12	54.17	45.80	48.42	68.20	-19.78	peak



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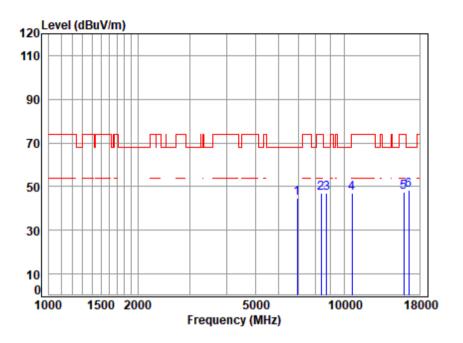


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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5310 TX RSE

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6937.841	11.37	36.12	56.71	54.14	44.92	68.20	-23.28	peak
2	8342.406	11.70	38.58	55.59	52.42	47.11	74.00	-26.89	peak
3	8724.793	12.13	38.55	55.25	51.56	46.99	68.20	-21.21	peak
4	10620.000	13.68	39.32	53.73	47.91	47.18	74.00	-26.82	peak
5	15930.000	17.24	38.67	54.02	45.69	47.58	74.00	-26.42	peak
6	pp16557.660	17.69	39.07	54.17	45.89	48.48	68.20	-19.72	peak



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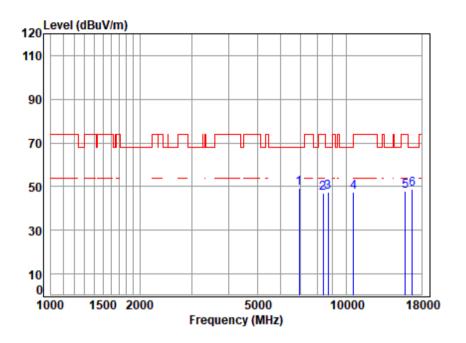


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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5290 TX RSE

: 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	pp 6944.911	11.37	36.11	56.71	58.48	49.25	68.20	-18.95	peak
2	8350.908	11.69	38.70	55.58	52.39	47.20	74.00	-26.80	peak
3	8680.473	12.06	38.52	55.29	52.15	47.44	68.20	-20.76	peak
4	10580.000	13.60	39.26	53.75	48.47	47.58	68.20	-20.62	peak
5	15870.000	17.20	38.64	54.04	46.06	47.86	74.00	-26.14	peak
6	16727.180	17.55	39.45	54.22	45.87	48.65	68.20	-19.55	peak



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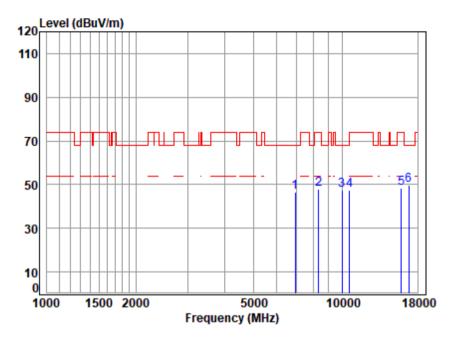


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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO Mode : 5290 TX RSE

: 5G WIFI 11AC80

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

	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6944.911	11.37	36.11	56.71	55.88	46.65	68.20	-21.55	peak
	8333.913								-
3	9970.208	12.95	38.90	54.13	49.92	47.64	68.20	-20.56	peak
4	10580.000	13.60	39.26	53.75	48.20	47.31	68.20	-20.89	peak
5	15870.000	17.20	38.64	54.04	46.62	48.42	74.00	-25.58	peak
6	pp16829.720	17.67	39.60	54.25	46.54	49.56	68.20	-18.64	peak



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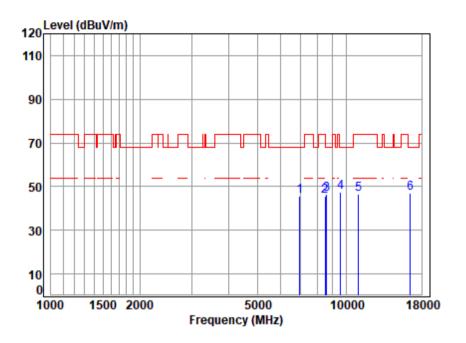


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5500 TX RSE

: 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	6959.073	11.37	36.12	56.71	54.79	45.57	68.20	-22.63	peak
2	8488.119	12.23	38.32	55.46	50.33	45.42	74.00	-28.58	peak
3	8592.505	11.99	38.47	55.37	51.26	46.35	68.20	-21.85	peak
4	pp 9572.157	12.47	38.80	54.49	50.62	47.40	68.20	-20.80	peak
5	11000.000	14.17	39.40	53.50	46.26	46.33	74.00	-27.67	peak
6	16500.000	17.74	38.90	54.15	44.29	46.78	68.20	-21.42	peak



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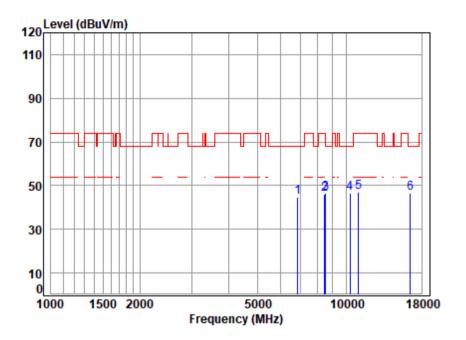


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5500 TX RSE

: 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	6860.542	11.37	36.04	56.73	53.88	44.56	68.20	-23.64	peak
2	8445.000	11.94	38.42	55.50	51.17	46.03	74.00	-27.97	peak
3	8514.096	12.26	38.30	55.44	51.34	46.46	68.20	-21.74	peak
4	pp10300.530	13.58	39.00	53.92	48.01	46.67	68.20	-21.53	peak
5	11000.000	14.17	39.40	53.50	46.96	47.03	74.00	-26.97	peak
6	16500.000	17.74	38.90	54.15	44.03	46.52	68.20	-21.68	peak



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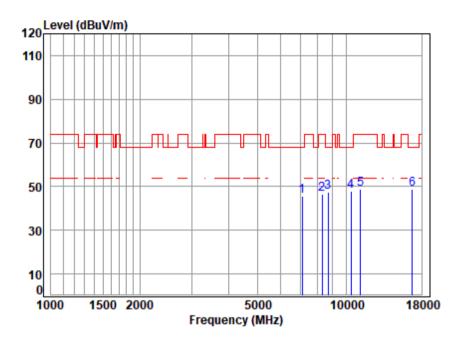


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5580 TX RSE

: 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	
7007 040	44 04	26.20	56.63	F4 40	45 76	CO 20	22 44	
7087.840								•
8274.704	11.71	37.85	55.65	52.57	46.48	74.00	-27.52	peak
8698.174	12.09	38.59	55.27	52.09	47.50	68.20	-20.70	peak
10374.240	13.61	39.00	53.88	49.03	47.76	68.20	-20.44	peak
11160.000	14.72	39.56	53.55	47.91	48.64	74.00	-25.36	peak
pp16740.000	17.54	39.48	54.22	46.17	48.97	68.20	-19.23	peak



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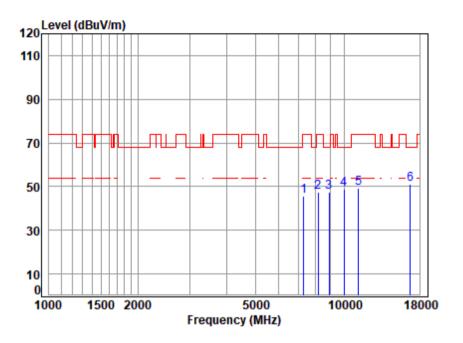


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Mode : 5580 TX RSE

Job No

1

2

4

5

: 5G WIFI 11A

: 02101MO

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dB dBuV dBuV/m dBuV/m 7285.470 11.51 36.67 56.47 53.96 45.67 74.00 -28.33 peak 8157.544 11.52 37.92 55.76 53.68 47.36 74.00 -26.64 peak 38.59 51.55 47.27 68.20 -20.93 peak 8895.287 12.22 55.09 9970.208 12.95 38.90 54.13 51.12 48.84 68.20 -19.36 peak 14.72 39.56 53.55 48.55 49.28 74.00 -24.72 peak 11160.000

6 pp16740.000 17.54 39.48 54.22 48.16 50.96 68.20 -17.24 peak



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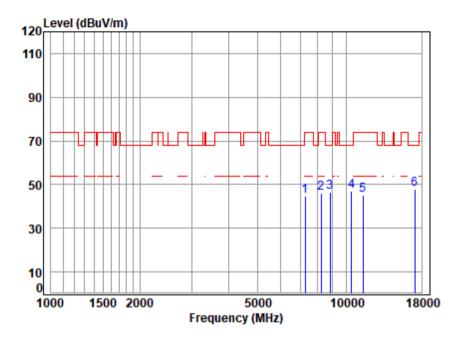


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5700 TX RSE

: 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	
7255.848	11.51	36.61	56.50	53.31	44.93	74.00	-29.07	peak
8224.288	11.62	37.90	55.70	52.37	46.19	74.00	-27.81	peak
8805.143	12.25	38.50	55.18	51.01	46.58	68.20	-21.62	peak
10416.590	13.62	39.02	53.85	48.34	47.13	68.20	-21.07	peak
11400.000	14.21	39.70	53.62	44.89	45.18	74.00	-28.82	peak
pp17100.000	18.47	39.80	54.32	43.90	47.85	68.20	-20.35	peak



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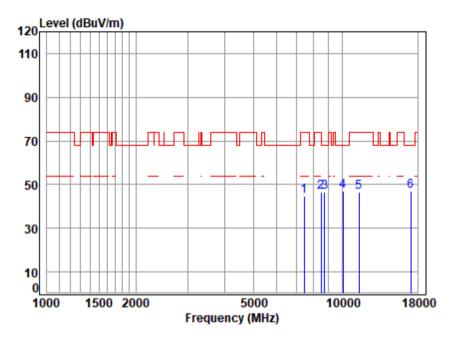


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5700 TX RSE

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7442.985	11.38	36.79	56.35	52.82	44.64	74.00	-29.36	peak
2	8496.769	12.29	38.31	55.45	51.31	46.46	74.00	-27.54	peak
3	8724.793								
4	pp10062.030	13.17	39.02	54.06	48.84	46.97	68.20	-21.23	peak
5	11400.000	14.21	39.70	53.62	46.39	46.68	74.00	-27.32	peak
6	17100.000	18.47	39.80	54.32	42.94	46.89	68.20	-21.31	peak



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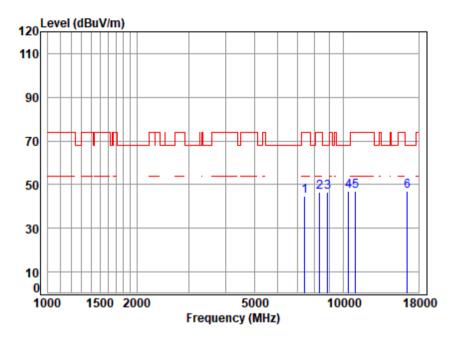


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5500 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7405.175	11.49	36.71	56.38	52.80	44.62	74.00	-29.38	peak
2	8333.913	11.72	38.44	55.60	51.81	46.37	74.00	-27.63	peak
3	8841.090	12.24	38.50	55.14	51.04	46.64	68.20	-21.56	peak
4	10427.210								
5	11000.000	14.17	39.40	53.50	46.84	46.91	74.00	-27.09	peak
6	pp16500.000	17.74	38.90	54.15	44.67	47.16	68.20	-21.04	peak



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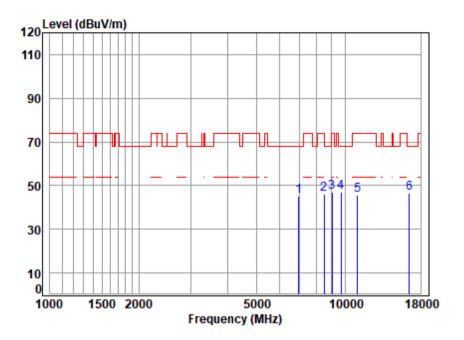


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Mode : 5500 TX RSE

Job No

1

2

5

: 5G WIFI 11AC20

: 02101MO

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dB dBuV dBuV/m dBuV/m 36.12 56.71 6959.073 11.37 54.17 44.95 68.20 -23.25 peak 8496.769 12.29 38.31 55.45 50.79 45.94 74.00 -28.06 peak 38.60 54.96 46.99 74.00 -27.01 peak 9041.442 12.14 51.21 4 pp 9689.874 12.67 38.70 54.38 49.80 46.79 68.20 -21.41 peak 11000.000 14.17 39.40 53.50 45.58 45.65 74.00 -28.35 peak

16500.000 17.74 38.90 54.15 43.98 46.47 68.20 -21.73 peak



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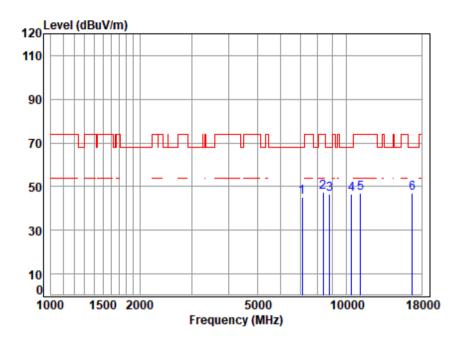


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5580 TX RSE

: 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	7109.531	11.95	36.42	56.61	53.37	45.13	68.20	-23.07	peak
2	8350.908	11.69	38.70	55.58	52.61	47.42	74.00	-26.58	peak
3	8796.179	12.24	38.50	55.18	51.13	46.69	68.20	-21.51	peak
4	10437.830	13.63	39.04	53.84	47.92	46.75	68.20	-21.45	peak
5	11160.000	14.72	39.56	53.55	46.09	46.82	74.00	-27.18	peak
6	pp16740.000	17.54	39.48	54.22	44.19	46.99	68.20	-21.21	peak



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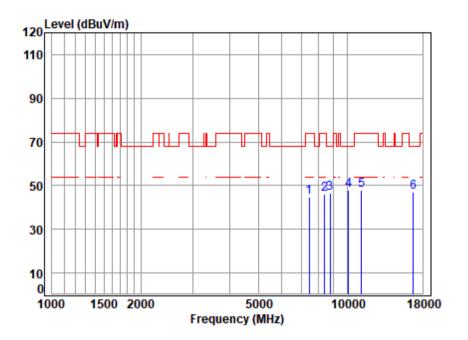


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5580 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7450.570	11.36	36.80	56.34	53.01	44.83	74.00	-29.17	peak
2	8402.101	11.64	38.59	55.54	51.42	46.11	74.00	-27.89	peak
3	8751.494	12.17	38.50	55.22	51.28	46.73	68.20	-21.47	peak
4	pp10103.110	13.26	39.10	54.04	49.42	47.74	68.20	-20.46	peak
5	11160.000	14.72	39.56	53.55	47.15	47.88	74.00	-26.12	peak
6	16740.000	17.54	39.48	54.22	43.97	46.77	68.20	-21.43	peak



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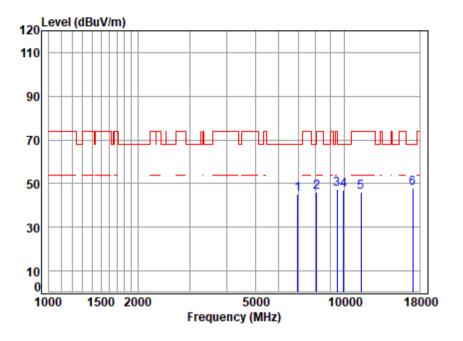


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5700 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6959.073	11.37	36.12	56.71	54.39	45.17	68.20	-23.03	peak
2									
3	9455.871								
4	9939.788	12.88	38.90	54.15	49.35	46.98	68.20	-21.22	peak
5	11400.000	14.21	39.70	53.62	45.96	46.25	74.00	-27.75	peak
6	pp17100.000	18.47	39.80	54.32	43.82	47.77	68.20	-20.43	peak



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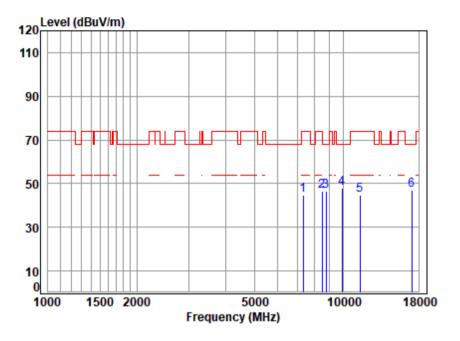


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02101MO Mode : 5700 TX RSE

: 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	7330.131	11.51	36.76	56.44	53.06	44.89	74.00	-29.11	peak
2	8496.769	12.29	38.31	55.45	51.33	46.48	74.00	-27.52	peak
3	8769.341	12.20	38.50	55.21	51.02	46.51	68.20	-21.69	peak
4	pp 9899.373	12.80	38.89	54.19	50.61	48.11	68.20	-20.09	peak
5	11400.000	14.21	39.70	53.62	44.61	44.90	74.00	-29.10	peak
6	17100.000	18.47	39.80	54.32	43.19	47.14	68.20	-21.06	peak



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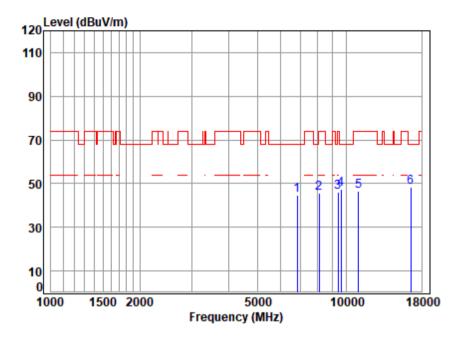


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5510 TX RSE

: 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	6839.609	11.37	35.98	56.73	54.29	44.91	68.20	-23.29	peak
2	8099.588	11.45	37.80	55.81	52.13	45.57	74.00	-28.43	peak
3	9369.584	12.26	38.80	54.67	49.86	46.25	74.00	-27.75	peak
4	9611.236	12.46	38.78	54.45	50.53	47.32	68.20	-20.88	peak
5	11020.000	14.27	39.42	53.51	46.49	46.67	74.00	-27.33	peak
6	pp16530.000	17.71	38.99	54.16	45.79	48.33	68.20	-19.87	peak



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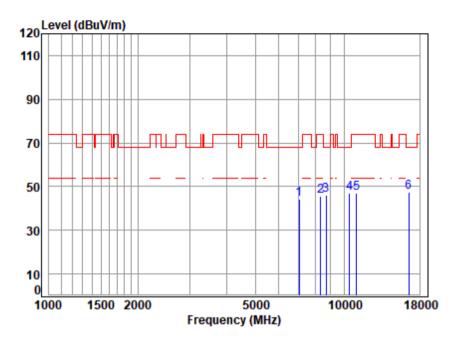


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5510 TX RSE

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7051.834	11.69	36.30	56.66	53.13	44.46	68.20	-23.74	peak
2									
3	8698.174	12.09	38.59	55.27	50.89	46.30	68.20	-21.90	peak
4	10427.210	13.63	39.03	53.84	48.26	47.08	68.20	-21.12	peak
5	11020.000	14.27	39.42	53.51	46.79	46.97	74.00	-27.03	peak
6	pp16530.000								-



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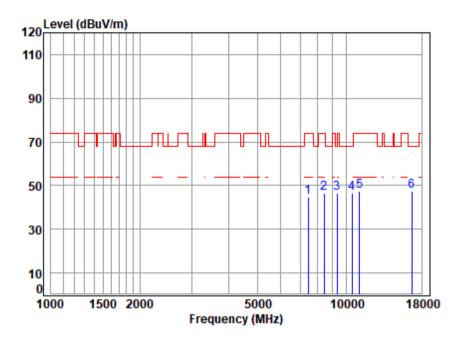


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5550 TX RSE

: 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	7427.838	11.42	36./6	56.36	52.9/	44.79	/4.00	-29.21	peak
2	8427.813	11.82	38.49	55.51	51.54	46.34	74.00	-27.66	peak
3	9321.987	12.20	38.80	54.71	50.31	46.60	74.00	-27.40	peak
4	10480.450	13.64	39.08	53.81	47.85	46.76	68.20	-21.44	peak
5	11100.000	14.66	39.50	53.53	46.86	47.49	74.00	-26.51	peak
6	pp16650.000	17.62	39.30	54.19	44.86	47.59	68.20	-20.61	peak



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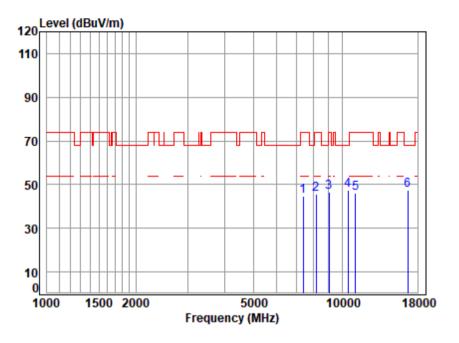


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5550 TX RSE

: 5G WIFI 11AC40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MU-					dD: \// /m	dD: ////		
	MHz	uв	ub/m	dB	abuv	abuv/m	abuv/m	dB	
1	7367.558	11.50	36.76	56.41	53.07	44.92	74.00	-29.08	peak
2	8157.544	11.52	37.92	55.76	52.01	45.69	74.00	-28.31	peak
3	9023.043	12.14	38.60	54.98	50.90	46.66	74.00	-27.34	peak
4	pp10448.470	13.63	39.05	53.83	48.64	47.49	68.20	-20.71	peak
5	11100.000	14.66	39.50	53.53	45.44	46.07	74.00	-27.93	peak
6	16650.000	17.62	39.30	54.19	44.75	47.48	68.20	-20.72	peak



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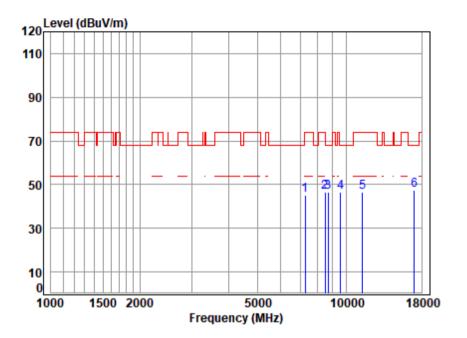


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5670 TX RSE

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7270.644	11.51	36.64	56.48	53.33	45.00	74.00	-29.00	peak
2									
3	8680.473	12.06	38.52	55.29	51.25	46.54	68.20	-21.66	peak
4	9581.912								
5	11340.000	14.47	39.70	53.60	46.13	46.70	74.00	-27.30	peak
6	pp17010.000	18.11	39.71	54.30	43.80	47.32	68.20	-20.88	peak



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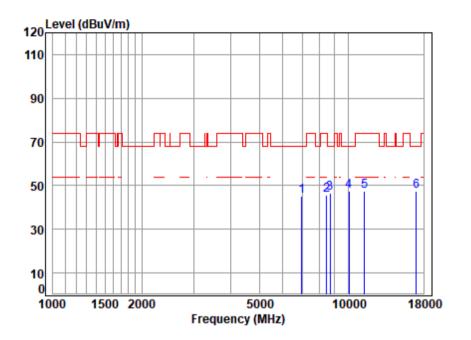


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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5670 TX RSE

: 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	6959.073	11.37	36.12	56.71	54.18	44.96	68.20	-23.24	peak
2	8445.000	11.94	38.42	55.50	50.85	45.71	74.00	-28.29	peak
3	8680.473	12.06	38.52	55.29	51.06	46.35	68.20	-21.85	peak
4	10072.280	13.20	39.04	54.06	49.06	47.24	68.20	-20.96	peak
5	11340.000	14.47	39.70	53.60	46.85	47.42	74.00	-26.58	peak
6	pp17010.000	18.11	39.71	54.30	43.77	47.29	68.20	-20.91	peak



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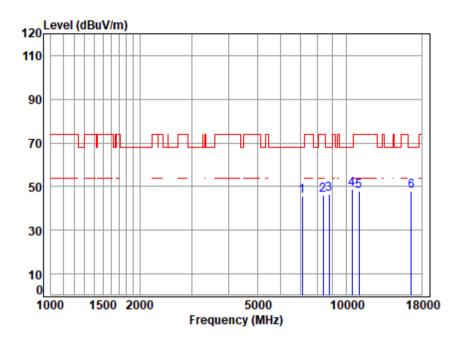


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5530 TX RSE

: 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	
	7400 534	44.05	26.40	FC C4	F2 00	45.64	60.00	22 56	
1	7109.531	11.95	36.42	56.61	53.88	45.64	68.20	-22.56	peak
2	8350.908	11.69	38.70	55.58	51.27	46.08	74.00	-27.92	peak
3	8751.494	12.17	38.50	55.22	51.02	46.47	68.20	-21.73	peak
4	pp10448.470	13.63	39.05	53.83	50.15	49.00	68.20	-19.20	peak
5	11060.000	14.46	39.46	53.52	47.61	48.01	74.00	-25.99	peak
6	16590.000	17.66	39.17	54.18	45.08	47.73	68.20	-20.47	peak



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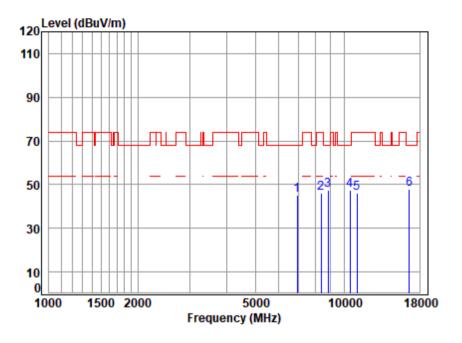


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5530 TX RSE

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	6944.911	11.37	36.11	56.71	54.20	44.97	68.20	-23.23	peak
2	8367.938	11.67	38.66	55.57	51.44	46.20	74.00	-27.80	peak
3	8823.098	12.24	38.50	55.16	51.84	47.42	68.20	-20.78	peak
4	10469.780	13.63	39.07	53.82	48.52	47.40	68.20	-20.80	peak
5	11060.000	14.46	39.46	53.52	45.79	46.19	74.00	-27.81	peak
6	pp16590.000	17.66	39.17	54.18	45.13	47.78	68.20	-20.42	peak



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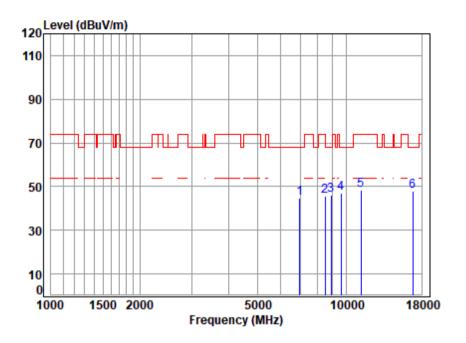


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 86 of 357

Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5610 TX RSE

: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
				<del></del>		<del></del>			
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	6073 365	11 27	26 45	FC 71	E2 00	44.60	CO 20	22 54	
1	6973.265	11.3/	36.15	56./1	55.88	44.69	68.20	-23.51	реак
2	8479.478	12.17	38.34	55.47	50.53	45.57	74.00	-28.43	peak
3	8895.287	12.22	38.59	55.09	50.59	46.31	68.20	-21.89	peak
4	9621.031	12.49	38.76	54.44	50.23	47.04	68.20	-21.16	peak
5	11220.000	14.74	39.62	53.57	47.41	48.20	74.00	-25.80	peak
6	pp16830.000	17.68	39.60	54.25	44.69	47.72	68.20	-20.48	peak



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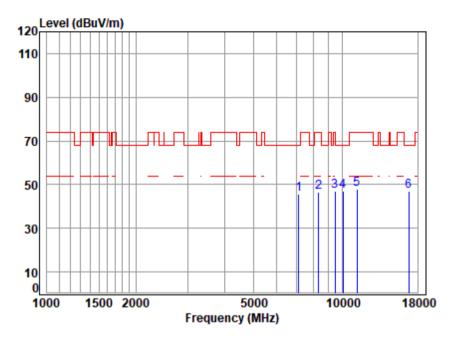


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 87 of 357

Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5610 TX RSE

: 5G WIFI 11AC80

				_				_	
		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	7124.029	11.88	36.45	56.60	53.79	45.52	68.20	-22.68	peak
2	8308.486	11.75	38.04	55.62	52.40	46.57	74.00	-27.43	peak
3	9465.507	12.47	38.83	54.58	50.31	47.03	74.00	-26.97	peak
4	pp10072.280	13.20	39.04	54.06	49.03	47.21	68.20	-20.99	peak
5	11220.000	14.74	39.62	53.57	47.30	48.09	74.00	-25.91	peak
6	16830.000	17.68	39.60	54.25	44.06	47.09	68.20	-21.11	peak



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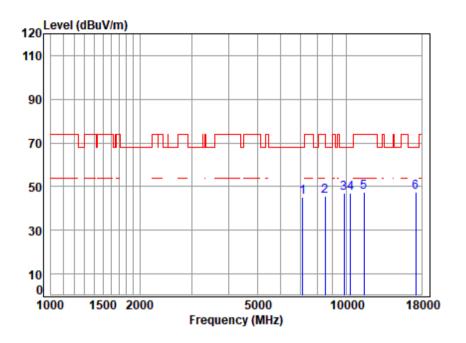


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5745 TX RSE

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						-ID- 3//	4D- 3//-		
	MHz	dB	aB/m	dB	abuv	abuv/m	abuv/m	dB	
	7138.557	11.81	36.48	56.59	53.58	45.28	68.20	-22.92	peak
	8470.845	12.11	38.36	55.48	50.84	45.83	74.00	-28.17	peak
,	9829.042	13.01	38.14	54.25	50.28	47.18	68.20	-21.02	peak
Ļ	10363.680	13.61	39.00	53.88	48.48	47.21	68.20	-20.99	peak
,	11490.000	14.97	39.61	53.65	46.40	47.33	74.00	-26.67	peak
,	pp17235.000	17.83	40.01	54.35	43.94	47.43	68.20	-20.77	peak



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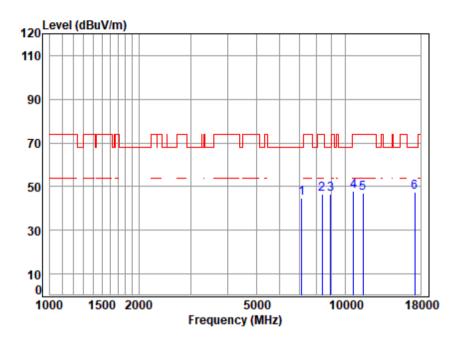


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 89 of 357

Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5745 TX RSE

: 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	
	7430 557	44 04	26.40	F.C. F.O.	F3 0F	44.75	60.00	22.45	
1	7138.557	11.81	36.48	56.59	53.05	44.75	68.20	-23.45	peak
2	8350.908	11.69	38.70	55.58	51.93	46.74	74.00	-27.26	peak
3	8913.427	12.21	38.57	55.08	50.98	46.68	68.20	-21.52	peak
4	10652.650	13.83	39.35	53.71	48.46	47.93	74.00	-26.07	peak
5	11490.000	14.97	39.61	53.65	46.15	47.08	74.00	-26.92	peak
6	pp17235.000	17.83	40.01	54.35	43.85	47.34	68.20	-20.86	peak



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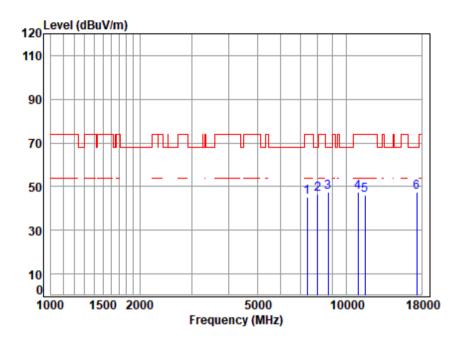


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5785 TX RSE

: 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	7382.582	11.50	36.73	56.39	53.14	44.98	74.00	-29.02	peak
2	8009.345	11.55	37.80	55.89	52.85	46.31	68.20	-21.89	peak
3	8680.473	12.06	38.52	55.29	52.02	47.31	68.20	-20.89	peak
4	10972.000	14.11	39.37	53.52	47.68	47.64	74.00	-26.36	peak
5	11570.000	14.78	39.60	53.67	45.52	46.23	74.00	-27.77	peak
	pp17355.000								•



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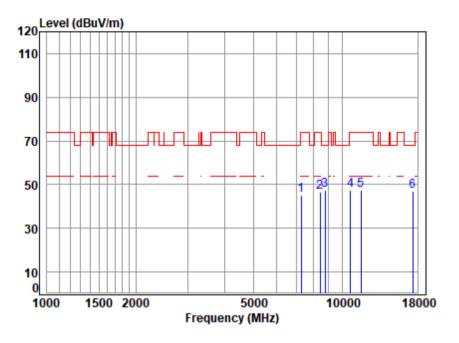


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5785 TX RSE

: 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	7263.242	11.51	36.63	56.49	53.30	44.95	74.00	-29.05	peak
2	8427.813	11.82	38.49	55.51	51.70	46.50	74.00	-27.50	peak
3	pp 8742.585	12.16	38.51	55.23	52.11	47.55	68.20	-20.65	peak
4	10685.250	13.97	39.39	53.69	47.64	47.31	74.00	-26.69	peak
5	11570.000	14.78	39.60	53.67	46.70	47.41	74.00	-26.59	peak
6	17355.000	18.00	40.31	54.37	43.27	47.21	68.20	-20.99	peak



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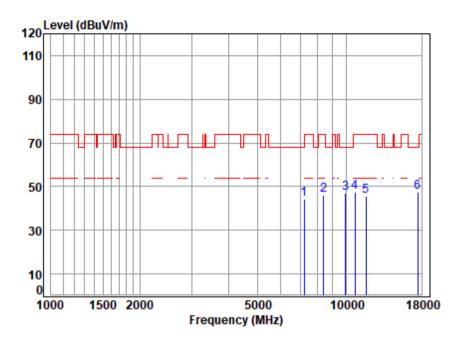


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5825 TX RSE

: 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		
	7040 000	44 50	26.60	F.C. F.O.	F0 06					
	7218.988	11.52	36.60	56.52	52.86	44.46	68.20	-23./4	peak	
	8393.547	11.64	38.61	55.55	51.60	46.30	74.00	-27.70	peak	
,	9949.918	12.90	38.90	54.15	49.32	46.97	68.20	-21.23	peak	
Ļ	10707.040	14.01	39.39	53.68	47.55	47.27	74.00	-26.73	peak	
,	11650.000	14.69	39.55	53.69	45.18	45.73	74.00	-28.27	peak	
,	pp17475.000	18.35	40.78	54.40	42.63	47.36	68.20	-20.84	peak	



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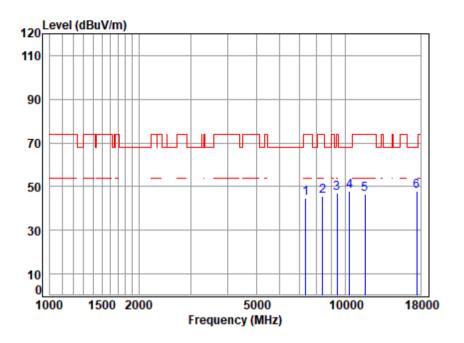


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5825 TX RSE

: 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	7345.079	11.51	36.79	56.42	53.01	44.89	74.00	-29.11	peak
2	8393.547	11.64	38.61	55.55	50.98	45.68	74.00	-28.32	peak
3	9388.690	12.29	38.80	54.65	50.48	46.92	74.00	-27.08	peak
4	pp10353.130	13.60	39.00	53.89	49.25	47.96	68.20	-20.24	peak
5	11650.000	14.69	39.55	53.69	45.97	46.52	74.00	-27.48	peak
6	17475.000	18.35	40.78	54.40	43.04	47.77	68.20	-20.43	peak



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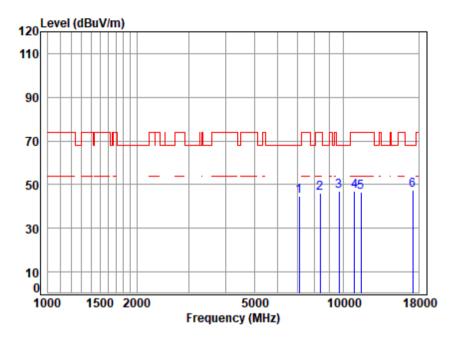


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5745 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7109.531	11.95	36.42	56.61	53.09	44.85	68.20	-23.35	peak
2	8350.908	11.69	38.70	55.58	51.45	46.26	74.00	-27.74	peak
3	9680.010	12.65	38.70	54.39	50.18	47.14	68.20	-21.06	peak
4	10927.390	14.02	39.33	53.54	47.40	47.21	74.00	-26.79	peak
5	11490.000	14.97	39.61	53.65	45.39	46.32	74.00	-27.68	peak
6	pp17235.000	17.83	40.01	54.35	43.90	47.39	68.20	-20.81	peak



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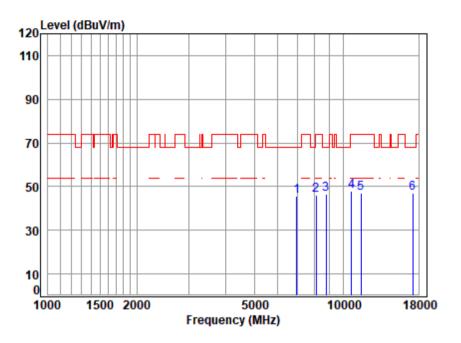


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 95 of 357

Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5745 TX RSE

: 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	6959.073	11.37	36.12	56.71	54.80	45.58	68.20	-22.62	peak
2	8099.588	11.45	37.80	55.81	52.74	46.18	74.00	-27.82	peak
3	8751.494	12.17	38.50	55.22	51.22	46.67	68.20	-21.53	peak
4	10685.250	13.97	39.39	53.69	48.21	47.88	74.00	-26.12	peak
5	11490.000	14.97	39.61	53.65	46.07	47.00	74.00	-27.00	peak
6	pp17235.000	17.83	40.01	54.35	43.70	47.19	68.20	-21.01	peak



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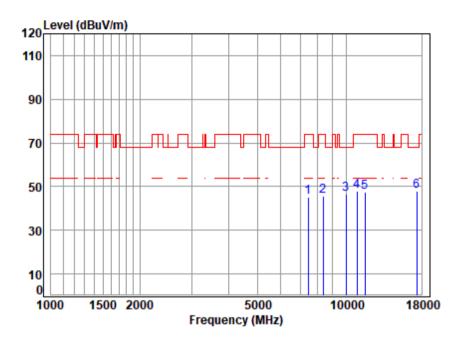


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5785 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7442.985	11.38	36.79	56.35	53.40	45.22	74.00	-28.78	peak
2	8367.938	11.67	38.66	55.57	51.08	45.84	74.00	-28.16	peak
3	9970.208	12.95	38.90	54.13	49.04	46.76	68.20	-21.44	peak
4	10882.960	13.91	39.30	53.57	48.28	47.92	74.00	-26.08	peak
5	11570.000	14.78	39.60	53.67	46.66	47.37	74.00	-26.63	peak
6	pp17355.000	18.00	40.31	54.37	44.05	47.99	68.20	-20.21	peak



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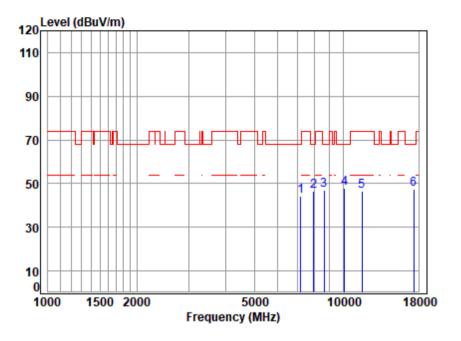


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5785 TX RSE

: 5G WIFI 11AC20

		Cable	Δnt	Preamp	Read		limit	Over	
	_								
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
		40	u.,	45	aba.	abar,	usu*/	45	
1	7167.700	11 67	26 E4	CC C7	בט פב	44 40	69.20	22 71	noole
2	7952.441	11.55	37.70	55.94	53.02	46.33	68.20	-21.87	peak
3	8618.801	11.98	38.46	55.34	51.80	46.90	68.20	-21.30	peak
4	pp10103.110	13.26	39.10	54.04	49.52	47.84	68.20	-20.36	peak
5	11570.000	14.78	39.60	53.67	45.70	46.41	74.00	-27.59	peak
6	17355.000	18.00	40.31	54.37	43.60	47.54	68.20	-20.66	peak



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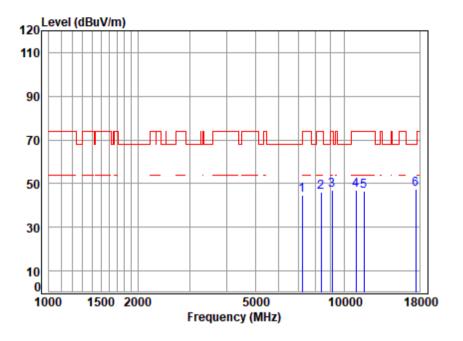


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5825 TX RSE

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7211.639	11.52	36.60	56.53	53.26	44.85	68.20	-23.35	peak
2	8350.908	11.69	38.70	55.58	51.29	46.10	74.00	-27.90	peak
3	9115.418	12.15	38.63	54.90	51.21	47.09	74.00	-26.91	peak
4	10983.190	14.13	39.38	53.51	47.13	47.13	74.00	-26.87	peak
5	11650.000	14.69	39.55	53.69	45.88	46.43	74.00	-27.57	peak
6	pp17475.000	18.35	40.78	54.40	42.92	47.65	68.20	-20.55	peak



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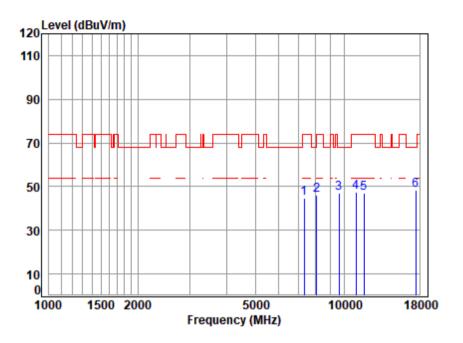


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5825 TX RSE

: 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	7330.131	11.51	36./6	56.44	52.92	44./5	/4.00	-29.25	peak
2	8083.105	11.47	37.80	55.83	52.50	45.94	74.00	-28.06	peak
3	9611.236	12.46	38.78	54.45	49.99	46.78	68.20	-21.42	peak
4	10972.000	14.11	39.37	53.52	47.38	47.34	74.00	-26.66	peak
5	11650.000	14.69	39.55	53.69	46.31	46.86	74.00	-27.14	peak
6	pp17475.000	18.35	40.78	54.40	43.61	48.34	68.20	-19.86	peak



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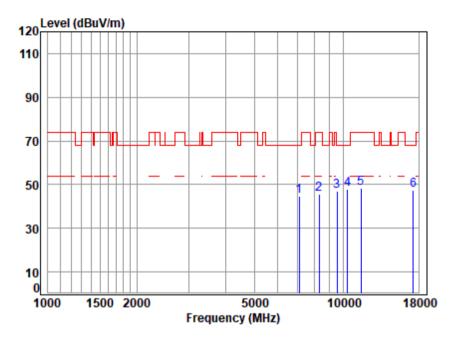


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5755 TX RSE

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7102.293	11.98	36.40	56.62	53.11	44.87	68.20	-23.33	peak
2	8291.578								
3	9542.952	12.50	38.81	54.51	50.40	47.20	68.20	-21.00	peak
4	pp10353.130	13.60	39.00	53.89	49.22	47.93	68.20	-20.27	peak
5	11510.000	15.01	39.60	53.65	47.24	48.20	74.00	-25.80	peak
6	17265.000	17.83	40.10	54.35	43.93	47.51	68.20	-20.69	peak



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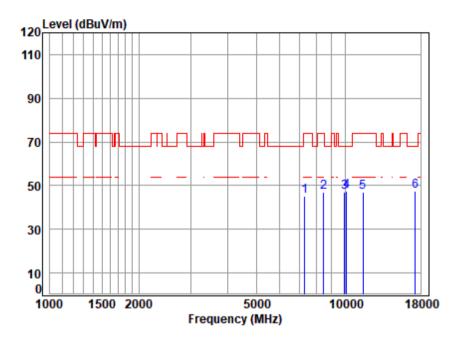


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 101 of 357

Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Mode : 5755 TX RSE

Job No

: 02101MO

: 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	7292.895	11.51	36.69	56.47	53.27	45.00	74.00	-29.00	peak
2	8453.606	11.99	38.39	55.49	52.10	46.99	74.00	-27.01	peak
3	9949.918	12.90	38.90	54.15	49.41	47.06	68.20	-21.14	peak
4	10092.820	13.25	39.09	54.04	49.36	47.66	68.20	-20.54	peak
5	11510.000	15.01	39.60	53.65	45.89	46.85	74.00	-27.15	peak
6	pp17265.000	17.83	40.10	54.35	44.08	47.66	68.20	-20.54	peak



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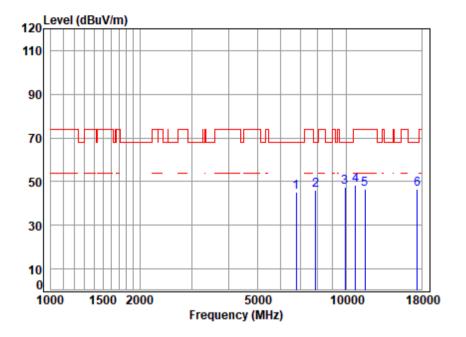


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5795 TX RSE

: 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	6784.103	11.38	35.84	56.74	54.81	45.29	68.20	-22.91	peak
2	7895.942	11.53	37.58	55.98	52.73	45.86	68.20	-22.34	peak
3	pp 9929.669	12.86	38.90	54.16	49.98	47.58	68.20	-20.62	peak
4	10772.670	13.78	39.33	53.64	48.74	48.21	74.00	-25.79	peak
5	11590.000	14.70	39.60	53.68	46.09	46.71	74.00	-27.29	peak
6	17385.000	18.09	40.37	54.38	42.27	46.35	68.20	-21.85	peak



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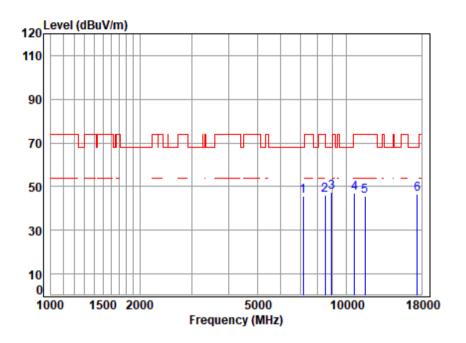


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 02101MO

Mode : 5795 TX RSE

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7160.403	11.71	36.52	56.57	54.13	45.79	68.20	-22.41	peak
2	8496.769	12.29	38.31	55.45	50.82	45.97	74.00	-28.03	peak
3	pp 8940.705	12.19	38.52	55.05	51.60	47.26	68.20	-20.94	peak
4	10685.250	13.97	39.39	53.69	47.49	47.16	74.00	-26.84	peak
5	11590.000	14.70	39.60	53.68	44.98	45.60	74.00	-28.40	peak
6	17385.000	18.09	40.37	54.38	42.39	46.47	68.20	-21.73	peak



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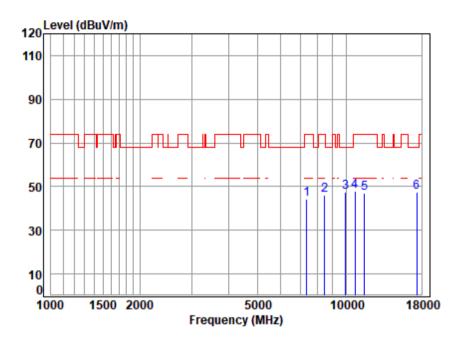


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5775 TX RSE

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7360.057	11.50	36.78	56.41	52.54	44.41	74.00	-29.59	peak
2	8462.222	12.05	38.38	55.48	51.13	46.08	74.00	-27.92	peak
3	pp 9939.788	12.88	38.90	54.15	49.98	47.61	68.20	-20.59	peak
4	10696.140	14.02	39.40	53.68	48.17	47.91	74.00	-26.09	peak
5	11550.000	14.85	39.60	53.67	46.10	46.88	74.00	-27.12	peak
6	17325.000	17.92	40.25	54.36	43.57	47.38	68.20	-20.82	peak



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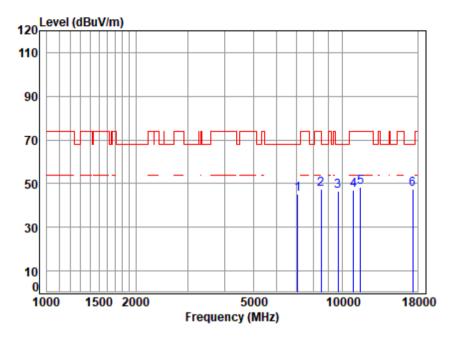


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 02101MO Mode : 5775 TX RSE

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7073.416	11.83	36.35	56.64	53.53	45.07	68.20	-23.13	peak
2									
3	9699.749	12.70	38.70	54.37	49.37	46.40	68.20	-21.80	Peak
4	10938.530	14.04	39.34	53.54	47.08	46.92	74.00	-27.08	peak
5	11550.000	14.85	39.60	53.67	47.43	48.21	74.00	-25.79	peak
6	pp17325.000	17.92	40.25	54.36	43.55	47.36	68.20	-20.84	peak



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#### 7.5 Radiated Emissions which fall in the restricted bands

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

#### Limit:

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

<sup>\*(1)</sup> For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

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

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

#### 7.5.1 E.U.T. Operation

Operating Environment:

24.5 °C Humidity: 51.8 % RH Atmospheric Pressure: 1020 mbar Temperature:



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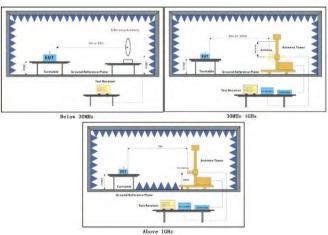
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#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	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	10	TX mode (U-NII-2A) _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	11	TX mode (U-NII-2C) _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	12	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





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#### 7.5.4 Measurement Procedure and Data

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

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



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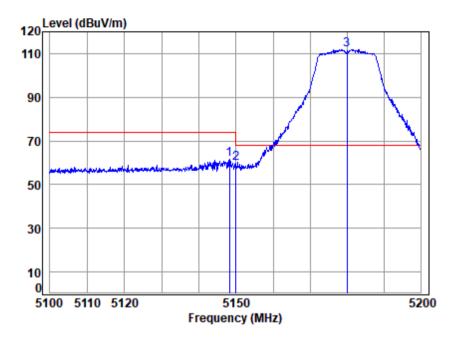


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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5180 Band edge

: 5GWIFI 11A

				Preamp						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	5148.257	10.13	32.40	30.84	50.01	61.70	74.00	-12.30	peak	
	5149.980	10.14	32.40	30.84	48.08	59.78	74.00	-14.22	peak	
nn	5180,000	10.25	32.46	30.83	99.93	111.81	68.20	43.61	neak	



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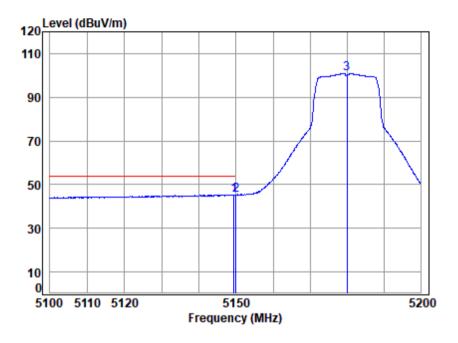


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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5180 Band edge

: 5GWIFI 11A

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	pp	5149.458								_	
2		5149.980								_	



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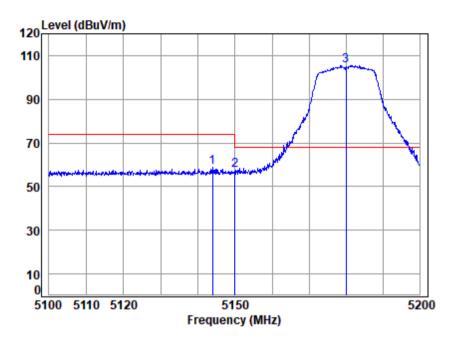


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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

Mode : 5180 Band edge

: 02101MO

: 5GWIFI 11A

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 5143.861 10.12 32.39 30.84 47.04 58.71 74.00 -15.29 peak 5149.980 10.14 32.40 30.84 45.58 57.28 74.00 -16.72 peak 3 pp 5180.000 10.25 32.46 30.83 93.48 105.36 68.20 37.16 peak



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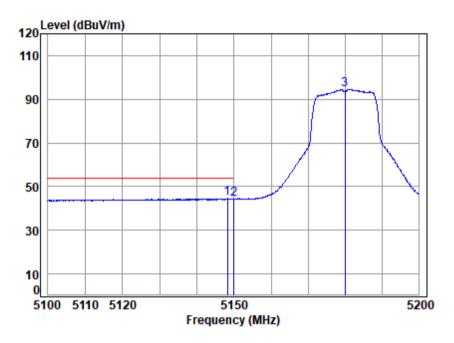


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Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

2 3

Mode : 5180 Band edge

: 02101MO

: 5GWIFI 11A

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5148.257	10.13	32.40	30.84	32.95	44.64	54.00	-9.36	Average
2	5149.980	10.14	32.40	30.84	32.66	44.36	54.00	-9.64	Average
3	5180 000	10 25	32 46	30 83	82 67	9/ 55			Λυοροσο



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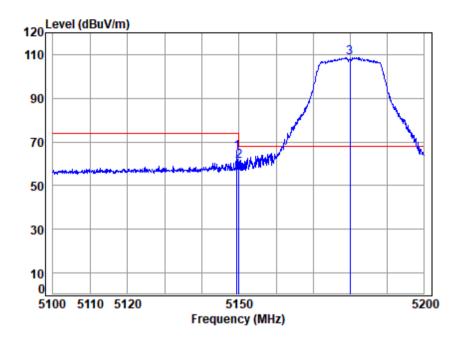


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5180 Band edge

: 5GWIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1	5149.458	10.14	32.40	30.84	53.43	65.13	74.00	-8.87	peak
2	5149.980	10.14	32.40	30.84	49.26	60.96	74.00	-13.04	peak
3 рр	5180.000	10.25	32.46	30.83	96.94	108.82	68.20	40.62	peak



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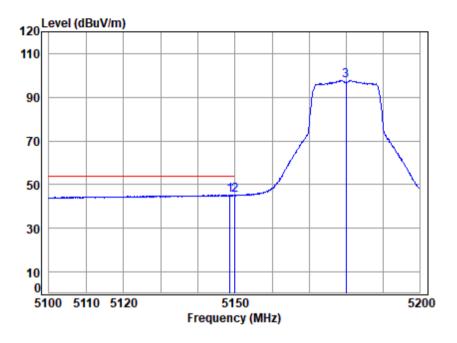


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5180 Band edge

: 5GWIFI 11AC20

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5148.657								_
	5149.980	10.14	32.40	30.84	33.51	45.21	54.00	-8.79	Average
	5180 000	10 25	32 46	30 83	25 70	97 58			Λνορασο



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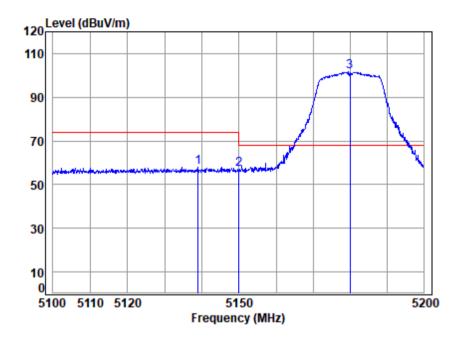


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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5180 Band edge

: 5GWIFI 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		
	5138.969	10.10	32.38	30.84	46.51	58.15	74.00	-15.85	peak	
	5149.980	10.14	32.40	30.84	45.41	57.11	74.00	-16.89	peak	
מס	5180.000								•	



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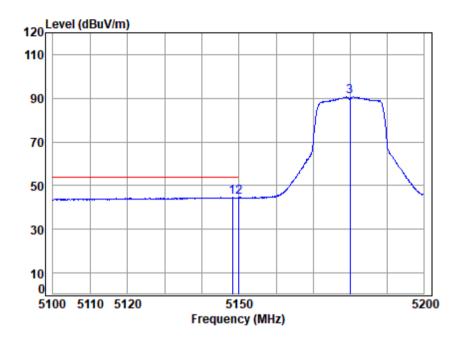


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 116 of 357

Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5180 Band edge

: 5GWIFI 11AC20

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5148.158	10.13	32.40	30.84	32.91	44.60	54.00	-9.40	Average
2	pp	5149.980	10.14	32.40	30.84	32.92	44.62	54.00	-9.38	Average
3		5180.000	10.25	32.46	30.83	78.93	90.81			Average



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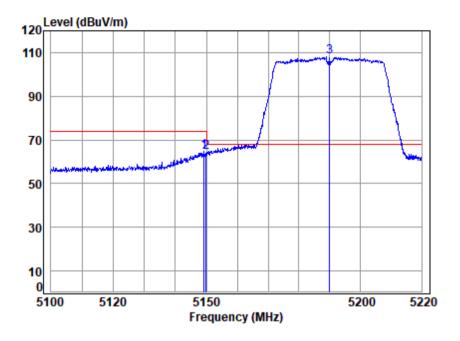


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 117 of 357

Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5190 Band edge

: 5GWIFI 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		
	5149.222	10.14	32.40	30.84	52.86	64.56	74.00	-9.44	peak	
	5149.980	10.14	32.40	30.84	52.69	64.39	74.00	-9.61	peak	
рp	5190.000								•	



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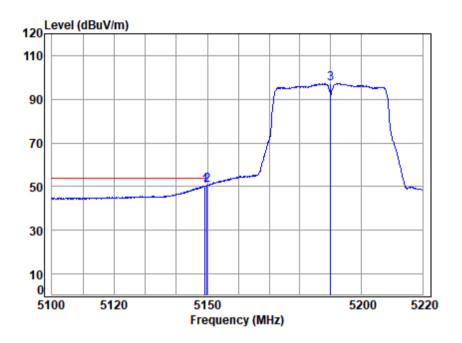


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Report No.: SZCR240600210105

Page: 118 of 357

Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5190 Band edge

: 5GWIFI 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	5149.222	10.14	32.40	30.84	38.70	50.40	54.00	-3.60	Average	
	5149.980								_	
3	5190.000	10.29	32.48	30.82	85.33	97.28			Average	



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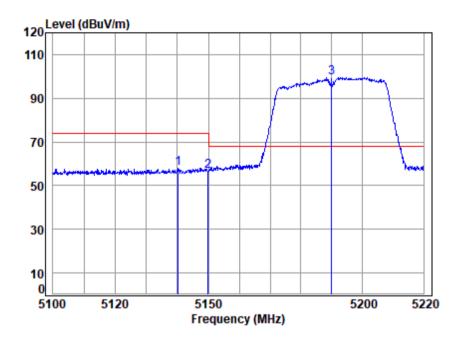


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5190 Band edge

: 5GWIFI 11AC40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHZ	ав	aB/m	dB	aBuv	aBuv/m	aBuv/m	ав	
	5140.248	10 10	32 38	30 8/	46 28	57 92	7/ 00	-16 08	nook
	5149.980								•
									•
nn	5190 000	10 79	37 AS	30 RO	X / 68	99 63	6X 70		noak



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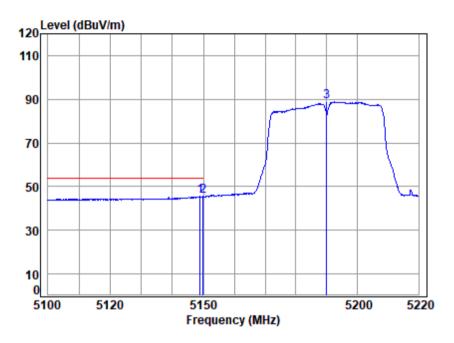


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1

: 02101MO Mode : 5190 Band edge

: 5GWIFI 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		
pp	5148.863	10.14	32.40	30.84	33.77	45.47	54.00	-8.53	Average	
	5149.980	10.14	32.40	30.84	33.75	45.45	54.00	-8.55	Average	
	5190.000								_	



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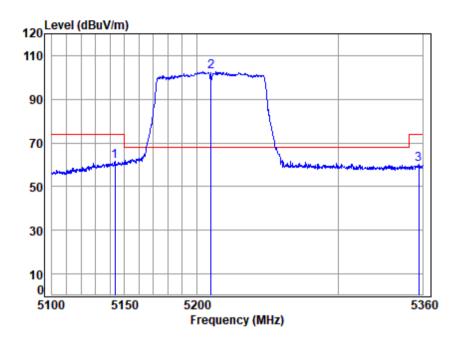


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5210 Band edge

: 5GWIFI 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	
	5143.293	10.11	32.39	30.84	49.93	61.59	74.00	-12.41	peak
pp	5210.000	10.32	32.52	30.82	90.51	102.53	68.20	34.33	peak
	5357.335	10.47	32.80	30.76	47.61	60.12	74.00	-13.88	peak



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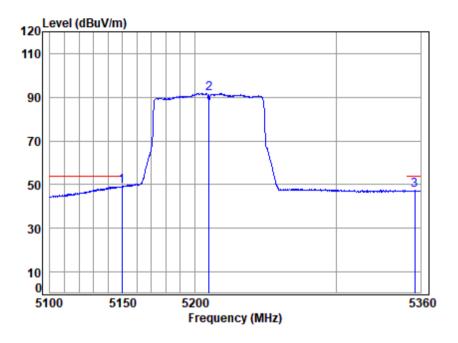


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5210 Band edge

: 5GWIFI 11AC80

				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		
	pp	5149.435	10.14	32.40	30.84	37.68	49.38	54.00	-4.62	Average	
)	•	5210.000	10.32	32.52	30.82	79.62	91.64			Average	
		5356.004	10.47	32.80	30.76	34.91	47.42	54.00	-6.58	Average	



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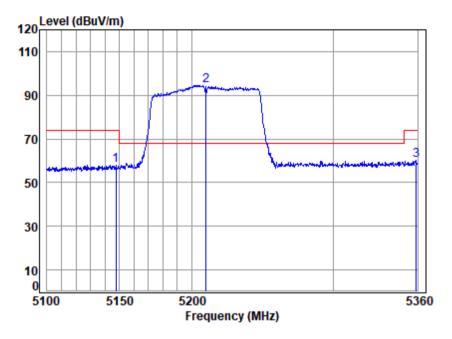


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Report No.: SZCR240600210105

Page: 123 of 357

Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No

Mode : 5210 Band edge

: 02101MO

: 5GWTFT 11AC80

	. 500		ACOU						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.386	10.13	32.39	30.84	46.23	57.91	74.00	-16.09	peak
2 p	p 5210.000	10.32	32.52	30.82	82.64	94.66	68.20	26.46	peak
	5359.201								•



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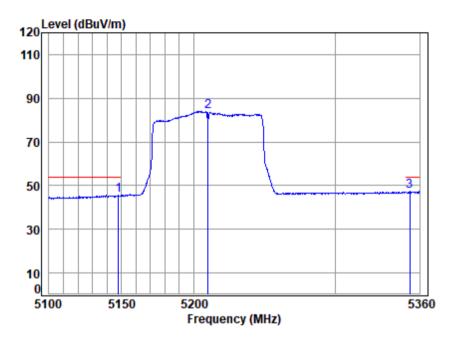


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Report No.: SZCR240600210105

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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL

Job No

1 2

Mode : 5210 Band edge

: 02101MO

: 5GWIFI 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		
	5147.643	10.13	32.40	30.84	33.88	45.57	54.00	-8.43	Average	
	5210.000	10.32	32.52	30.82	72.10	84.12			Average	
nn	5353 075	10 46	32 80	30 76	34 76	47 26	54 00	-6 74	Average	



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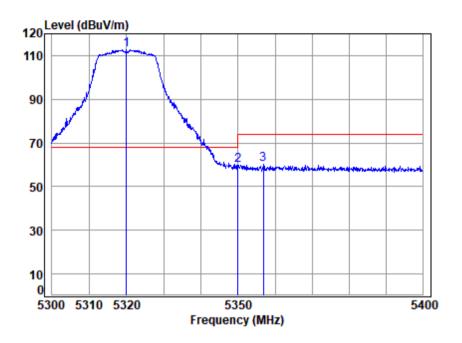


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Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5320 Band edge

: 5GWIFI 11A

Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5320.000 5350.020								•

5356.771 10.47 32.80 30.76 47.58 60.09 74.00 -13.91 peak



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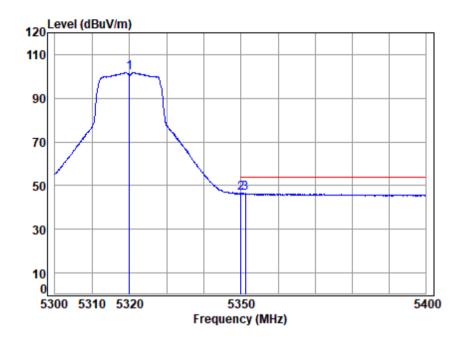


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Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5320 Band edge

: 5GWIFI 11A

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5320.000	10.35	32.74	30.77	89.50	101.82			Average
	5350.020	10.45	32.80	30.76	33.93	46.42	54.00	-7.58	Average
nn	5351 167	10 /5	32 80	30 76	3/1 00	16 19	5/ 00	_7 51	Λυρρασο



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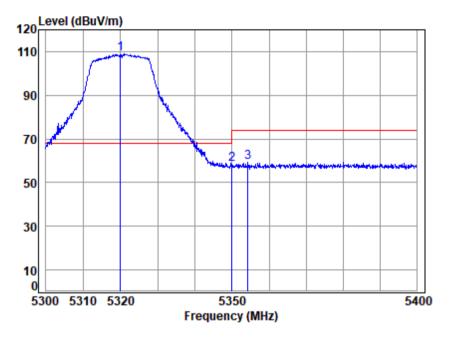


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Report No.: SZCR240600210105

Page: 127 of 357

Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

: 02101MO Mode : 5320 Band edge

: 5GWIFI 11A

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	96.51	108.83	68.20	40.63	peak
2	5350.020	10.45	32.80	30.76	46.06	58.55	74.00	-15.45	peak
3	5354.268	10.46	32.80	30.76	46.98	59.48	74.00	-14.52	peak



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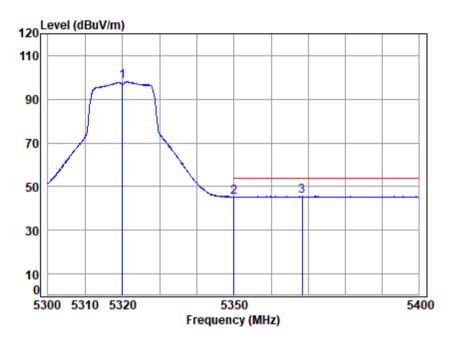


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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

1 2

Mode : 5320 Band edge

: 02101MO

: 5GWIFI 11A

				Preamp						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5300 000	40.35	20.74	20 77	05 60	00.04				
	5320.000	10.35	32./4	30.//	85.69	98.01			Average	
	5350.020	10.45	32.80	30.76	32.88	45.37	54.00	-8.63	Average	
an	5368 398	10 51	32 80	30 75	33 10	15 66	5/1 00	_8 3/	Avenage	



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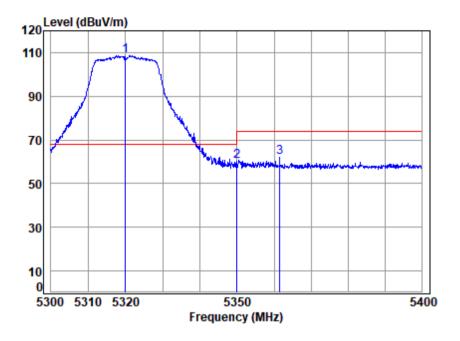


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Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5320 Band edge

: 5GWIFI 11AC20

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	96.34	108.66	68.20	40.46	peak
2	5350.020	10.45	32.80	30.76	47.84	60.33	74.00	-13.67	peak
3	5361.479	10.49	32.80	30.76	49.42	61.95	74.00	-12.05	peak



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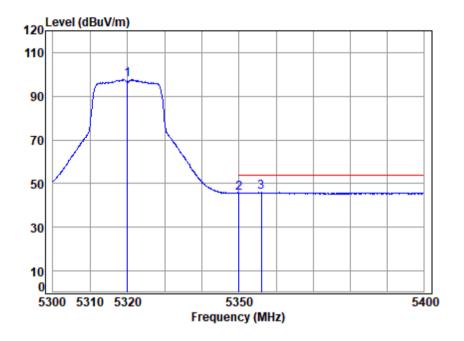


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Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5320 Band edge

: 5GWIFI 11AC20

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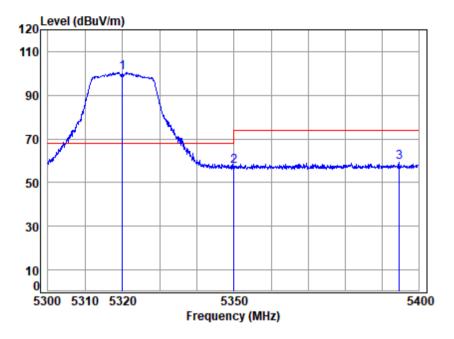


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Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

Mode : 5320 Band edge

: 02101MO

: 5GWIFI 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 pp	5320.000	10.35	32.74	30.77	88.17	100.49	68.20	32.29	peak
2	5350.020	10.45	32.80	30.76	44.79	57.28	74.00	-16.72	peak
3	5394 754	10 60	32 80	30 74	46 50	59 16	74 99	-14 84	neak



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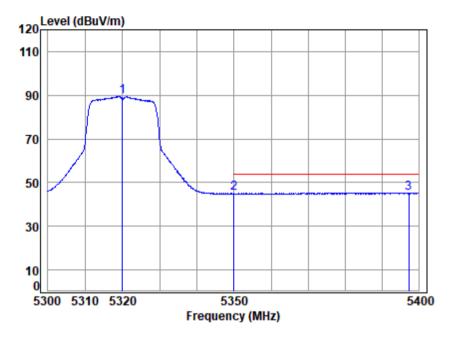


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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

Mode : 5320 Band edge

: 02101MO

: 5GWIFI 11AC20

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5320.000	10.35	32.74	30.77	77.17	89.49			Average
	5350.020	10.45	32.80	30.76	32.53	45.02	54.00	-8.98	Average
pp	5397.275	10.61	32.80	30.74	32.73	45.40	54.00	-8.60	Average



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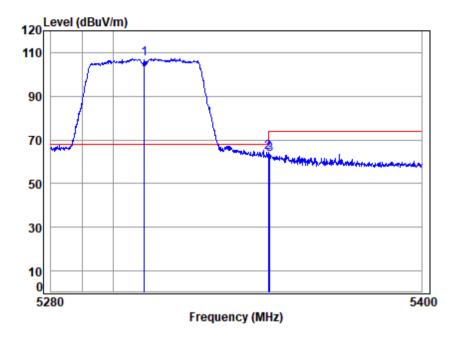


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Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5310 Band edge

: 5GWIFI 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 pp	5310.000	10.31	32.72	30.78	95.00	107.25	68.20	39.05	peak
2	5350.020	10.45	32.80	30.76	51.73	64.22	74.00	-9.78	peak
3	5350 594	10 45	32 80	30 76	50 89	63 38	74 99	-10 62	neak



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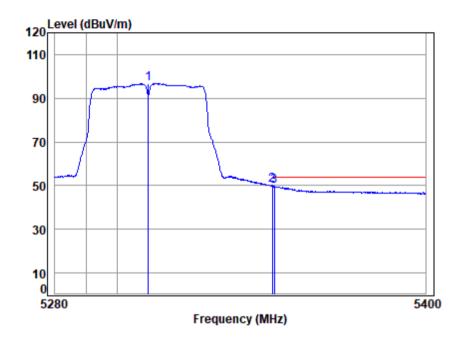


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Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5310 Band edge

: 5GWIFI 11AC40

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
		5310.000	10.31	32.72	30.78	84.66	96.91			Average	
•	pp	5350.020	10.45	32.80	30.76	37.48	49.97	54.00	-4.03	Average	
,		5350.714	10.45	32.80	30.76	37.36	49.85	54.00	-4.15	Average	



2

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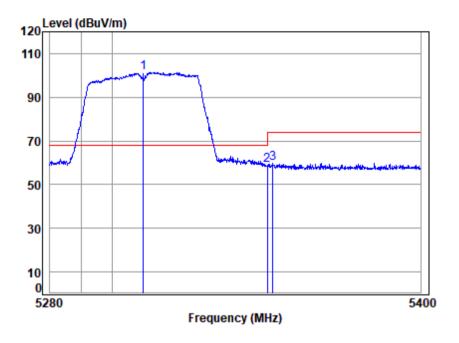


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5310 Band edge

: 5GWTFT 11AC40

	. 500		ACTO							
		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		
pp	5310.000	10.31	32.72	30.78	89.17	101.42	68.20	33.22	peak	
	5350.020								•	
	5351.917								•	



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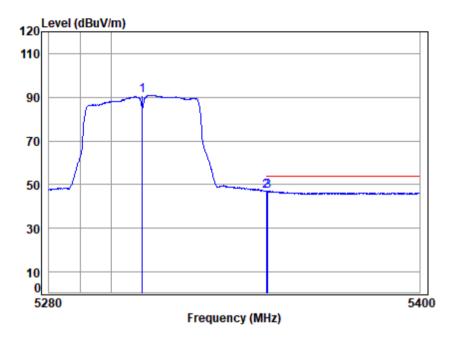


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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5310 Band edge

: 5GWIFI 11AC40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5310.000	10.31	32.72	30.78	78.67	90.92			Average	
	5350.020	10.45	32.80	30.76	34.61	47.10	54.00	-6.90	Average	
p	5350.594	10.45	32.80	30.76	34.71	47.20	54.00	-6.80	Average	



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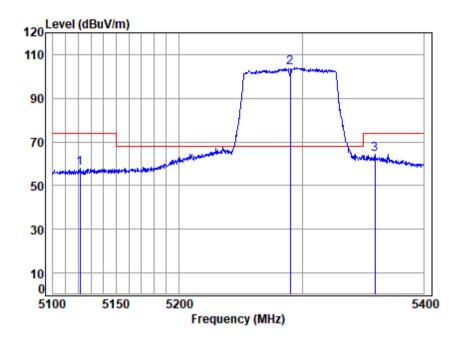


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Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5290 Band edge

: 5GWIFI 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	
	5121.325	10.03	32.34	30.85	46.28	57.80	74.00	-16.20	peak
pp	5290.000	10.28	32.68	30.78	91.97	104.15	68.20	35.95	peak
	5359.717	10.48	32.80	30.76	51.78	64.30	74.00	-9.70	peak



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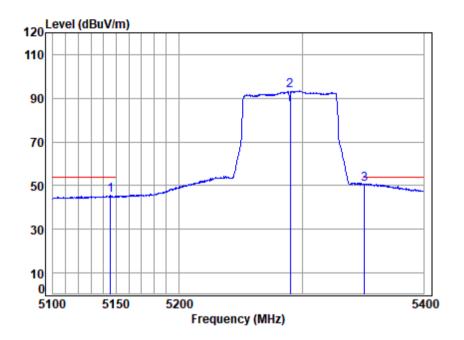


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5290 Band edge

5GWTFT 11ΔC80

	. 500		7000							
		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		
	5145.384	10.12	32.39	30.84	33.86	45.53	54.00	-8.47	Average	
	5290.000	10.28	32.68	30.78	81.14	93.32			Average	
pp	5350.840	10.45	32.80	30.76	38.33	50.82	54.00	-3.18	Average	



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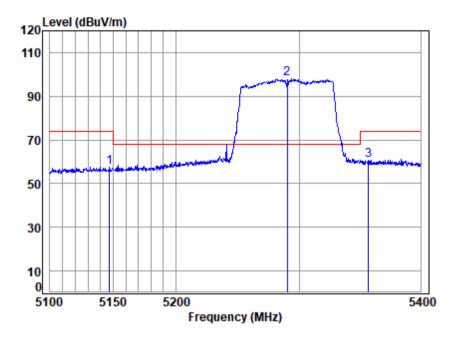


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 139 of 357

Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5290 Band edge

: 5GWTFT 11AC80

	. 500		ACOU							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5147.149	10.13	32.39	30.84	45.98	57.66	74.00	-16.34	peak	
2 pp	5290.000	10.28	32.68	30.78	85.72	97.90	68.20	29.70	peak	
	5356.654								•	



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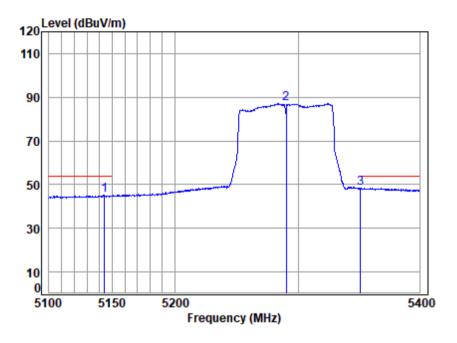


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 140 of 357

Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5290 Band edge

: 5GWIFI 11AC80

	Frea			Preamp Factor					Remark	
		2033	· uc coi	, accor		20101	Line	LIMIT	remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	5143.914	10.12	32.39	30.84	33.49	45.16	54.00	-8.84	Average	
	5290.000	10.28	32.68	30.78	74.94	87.12			Average	
nn	5351 146	10 45	32 80	30 76	36 01	48 50	54 00	-5 50	Average	



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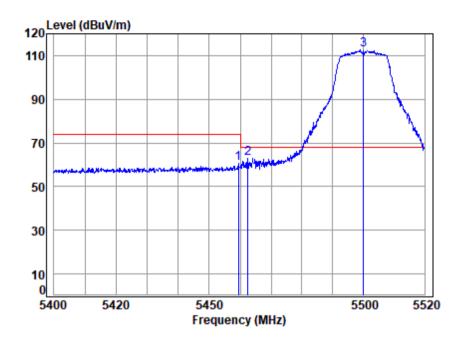


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 141 of 357

Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5500 Band edge

: 5GWIFI 11A

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5459.430	10.60	32.90	30.72	48.04	60.82	74.00	-13.18	peak
	5462.551	10.59	32.90	30.71	50.40	63.18	68.20	-5.02	peak
pp	5500.000	10.58	32.90	30.70	99.70	112.48	68.20	44.28	peak



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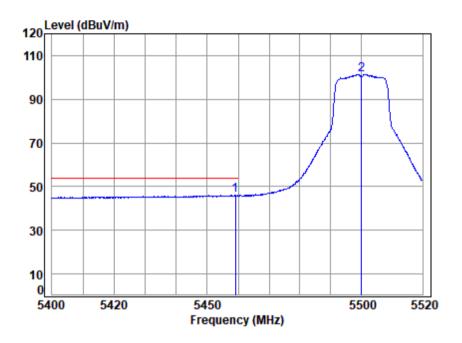


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5500 Band edge

: 5GWIFI 11A

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level MHz dB/m dBuV dBuV/m dBuV/m 1 pp 5459.070 10.60 32.90 30.72 33.36 46.14 54.00 -7.86 Average

5500.000 10.58 32.90 30.70 88.61 101.39 ----- Average



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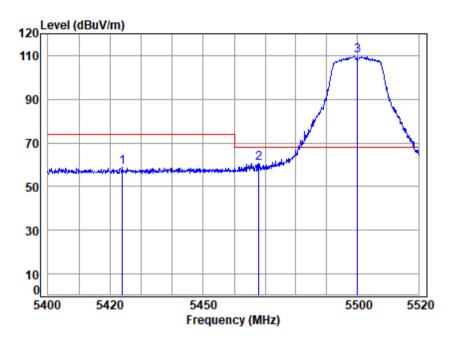


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 143 of 357

Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1

Mode : 5500 Band edge

: 02101MO

: 5GWIFI 11A

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 5423.909 10.61 32.85 30.73 46.15 58.88 74.00 -15.12 peak 5467.957 10.59 32.90 30.71 47.97 60.75 68.20 -7.45 peak 3 pp 5500.000 10.58 32.90 30.70 96.99 109.77 68.20 41.57 peak



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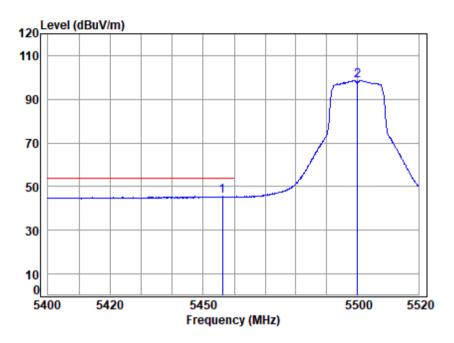


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 144 of 357

Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

Mode : 5500 Band edge

: 02101MO

: 5GWIFI 11A

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

MHz dB/m dBuV dBuV/m dBuV/m

1 pp 5456.191 10.60 32.90 30.72 32.75 45.53 54.00 -8.47 Average 5500.000 10.58 32.90 30.70 85.85 98.63 ----- Average



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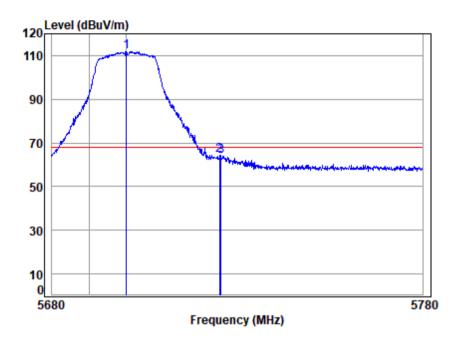


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 145 of 357

Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5700 Band edge

: 5GWIFI 11A

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-	MII-					JD: 377	JD: A//		
	MHZ	ав	ab/m	dB	abuv	abuv/m	abuv/m	ав	
nn	5700.000	10.56	33.20	30.62	98.70	111.84	68.20	43.64	neak
PP	5725.000								•
	5725 483								•



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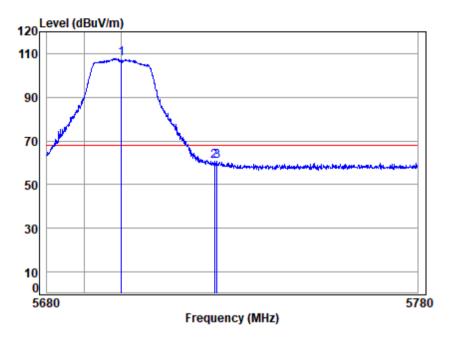


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 146 of 357

Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5700 Band edge

: 5GWIFI 11A

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5700.000								•
	5725.000	10.68	33.25	30.61	47.14	60.46	68.20	-7.74	peak
	5725 684	10 68	33 25	30 61	17 11	60 76	68 20	-7 44	neak



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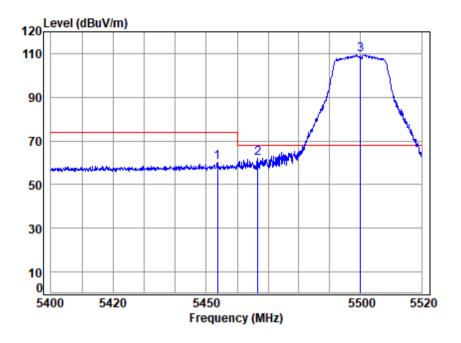


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 147 of 357

Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5500 Band edge

: 5GWIFI 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	
	5453.674	10.60	32.90	30.72	47.34	60.12	74.00	-13.88	peak
	5466.755	10.59	32.90	30.71	49.38	62.16	68.20	-6.04	peak
nn	5500 000	10 58	32 90	30 70	96 76	109 54	68 20	41 34	neak



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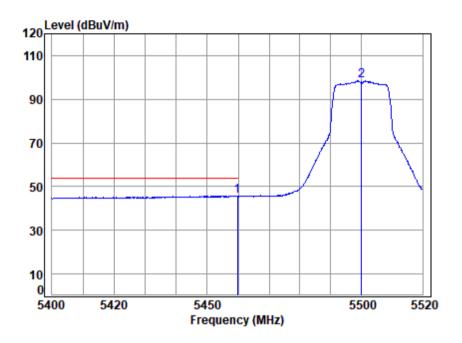


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5500 Band edge

: 5GWIFI 11AC20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level MHz dB/m dBuV dBuV/m dBuV/m 1 pp 5459.791 10.60 32.90 30.72 32.95 45.73 54.00 -8.27 Average

5500.000 10.58 32.90 30.70 85.76 98.54 ----- Average



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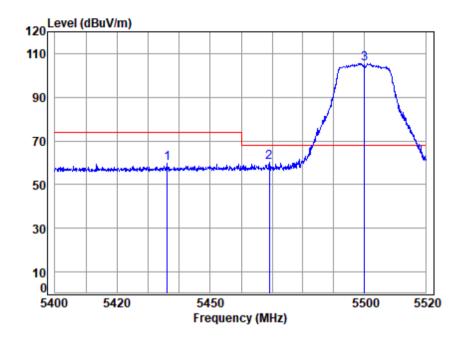


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5500 Band edge

: 5GWIFI 11AC20

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5436.082								•
an	5469.038								•



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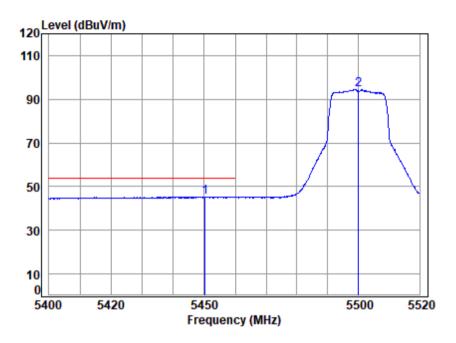


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No

Mode : 5500 Band edge

: 02101MO

: 5GWIFI 11AC20

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

MHz dB/m dBuV dBuV/m dBuV/m

1 pp 5450.199 10.60 32.90 30.72 32.55 45.33 54.00 -8.67 Average 5500.000 10.58 32.90 30.70 81.74 94.52 ----- Average



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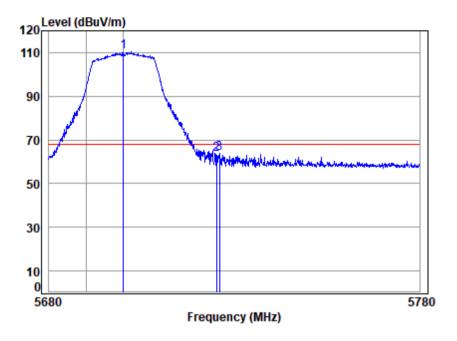


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5700 Band edge

: 5GWIFI 11AC20

	Eneg						Limit Line		
	rreq		-actor	ractor	rever	Level	Line		Nelliar K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5700.000	10.56	33.20	30.62	97.12	110.26	68.20	42.06	peak
	5725.000	10.68	33.25	30.61	49.99	63.31	68.20	-4.89	peak
	5725.883	10.68	33.25	30.61	50.63	63.95	68.20	-4.25	peak



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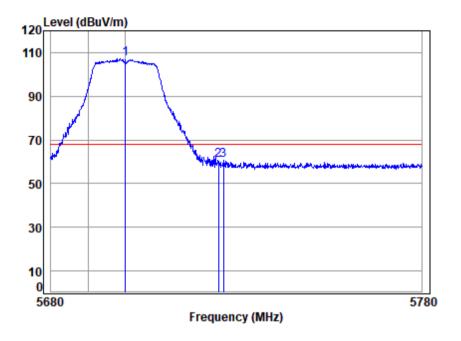


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 152 of 357

Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5700 Band edge

: 5GWIFI 11AC20

			HOZO							
		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		
pp	5700.000	10.56	33.20	30.62	93.98	107.12	68.20	38.92	peak	
	5725.000	10.68	33.25	30.61	47.58	60.90	68.20	-7.30	peak	
	5726.383	10.68	33.25	30.61	47.48	60.80	68.20	-7.40	peak	



1

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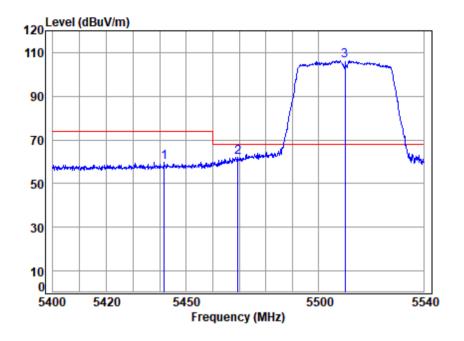


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5510 Band edge

: 5GWIFI 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	5441.764	10.60	32.88	30.72	47.23	59.99	74.00	-14.01	peak
2	5469.412	10.59	32.90	30.71	49.34	62.12	68.20	-6.08	peak
3 рр	5510.000	10.56	32.90	30.70	93.57	106.33	68.20	38.13	peak



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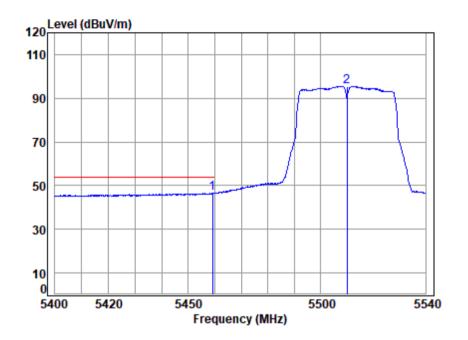


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 154 of 357

Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5510 Band edge

: 5GWIFI 11AC40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level MHz dB/m dBuV dBuV/m dBuV/m 1 pp 5459.202 10.60 32.90 30.72 33.78 46.56 54.00 -7.44 Average

5510.000 10.56 32.90 30.70 82.78 95.54 ----- Average



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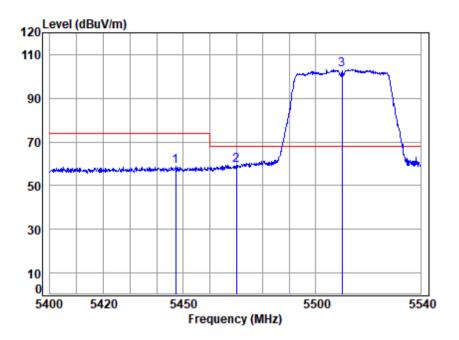


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 155 of 357

Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No

1 2

Mode : 5510 Band edge

: 02101MO

: 5GWIFI 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	
	5447.199	10.60	32.89	30.72	45.92	58.69	74.00	-15.31	peak
	5469.972	10.59	32.90	30.71	46.70	59.48	68.20	-8.72	peak
nn	5510.000	10.56	32.90	30.70	90.53	103.29	68.20	35.09	peak



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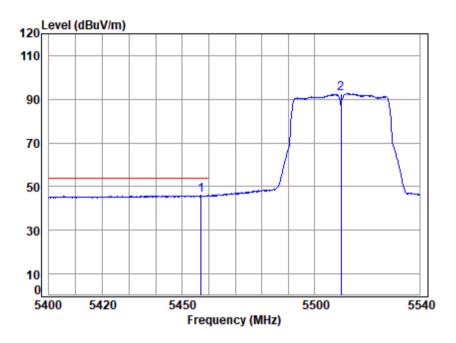


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 156 of 357

Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No

Mode : 5510 Band edge

: 02101MO

: 5GWIFI 11AC40

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

1 pp 5456.967 10.60 32.90 30.72 33.10 45.88 54.00 -8.12 Average 5510.000 10.56 32.90 30.70 79.83 92.59 ----- Average



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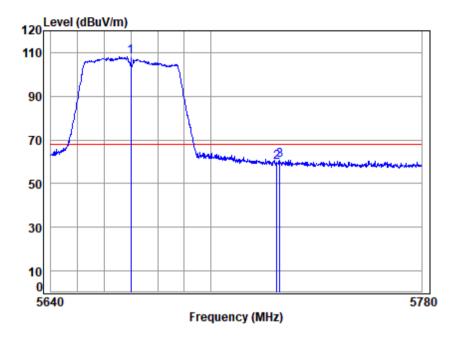


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 157 of 357

Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5670 Band edge

: 5GWIFI 11AC40

	Freq						Limit Line		
	MHz			——dB				dB	
pp	5670.000 5725.000								•
	5725.974	10.68	33.25	30.61	47.33	60.65	68.20	-7.55	peak



2

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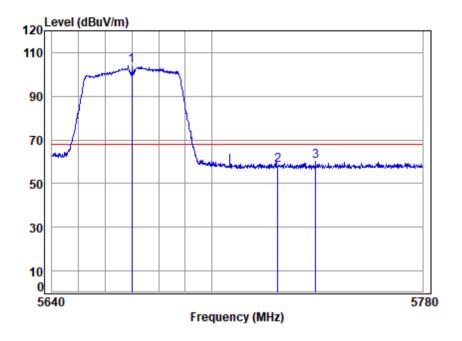


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Report No.: SZCR240600210105

Page: 158 of 357

Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5670 Band edge

: 5GWIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	90.80	103.83	68.20	35.63	peak
2	5725.000	10.68	33.25	30.61	44.96	58.28	68.20	-9.92	peak
3	5739.187	10.74	33.28	30.60	46.60	60.02	68.20	-8.18	peak



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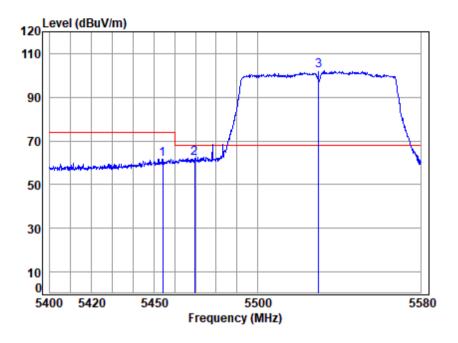


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5530 Band edge

: 5GWIFI 11AC80

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
		5454.097	10.60	32.90	30.72	48.92	61.70	74.00	-12.30	peak	
•		5469.678	10.59	32.90	30.71	49.19	61.97	68.20	-6.23	peak	
,	pp	5530.000	10.53	32.90	30.69	89.32	102.06	68.20	33.86	peak	



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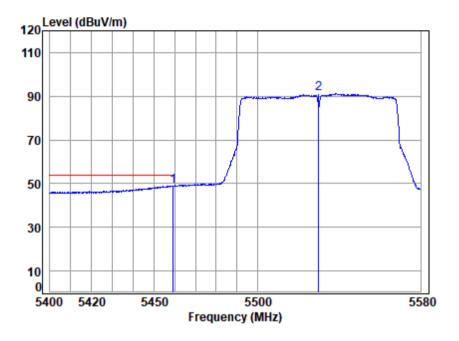


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5530 Band edge

: 5GWIFI 11AC80

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level MHz dB/m dBuV dBuV/m dBuV/m 1 pp 5459.286 10.60 32.90 30.72 36.25 49.03 54.00 -4.97 Average 5530.000 10.53 32.90 30.69 78.41 91.15 ----- Average



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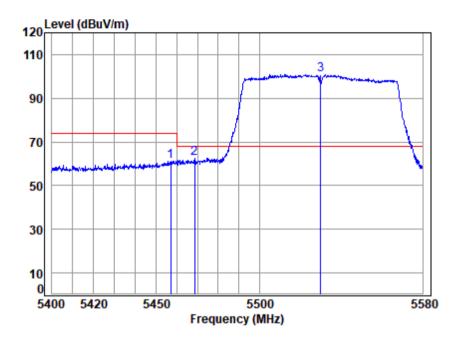


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5530 Band edge

: 5GWIFI 11AC80

	Freq			Preamp Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5457.138								•
	5468.602	10.59	32.90	30.71	49.61	62.39	68.20	-5.81	peak
pp	5530.000	10.53	32.90	30.69	88.20	100.94	68.20	32.74	peak



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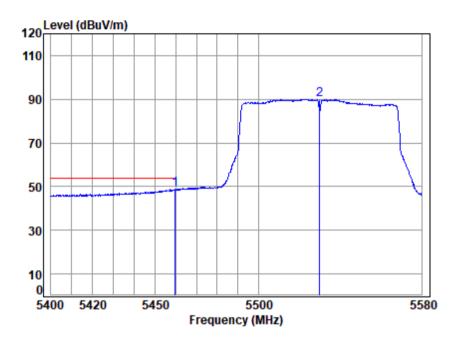


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

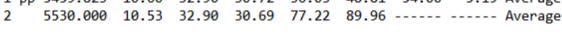


Condition: 3m VERTICAL Job No : 02101MO

Mode : 5530 Band edge

: 5GWIFI 11AC80

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Freq Level Level dBuV dBuV/m dBuV/m MHz dB/m 1 pp 5459.823 10.60 32.90 30.72 36.03 48.81 54.00 -5.19 Average





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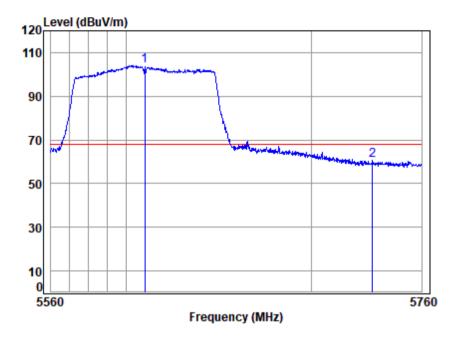


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Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5610 Band edge

: 5GWIFI 11AC80

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5610.000 5732.991								•



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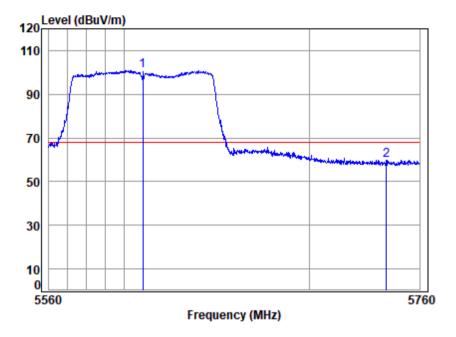


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

5741.709

Job No

Mode : 5610 Band edge

: 02101MO

: 5GWIFI 11AC80

10.75 33.28

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Line Limit Remark Freq Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 30.66 88.18 100.97 68.20 32.77 peak 1 pp 5610.000 10.43 33.02

30.60 46.48 59.91 68.20 -8.29 peak



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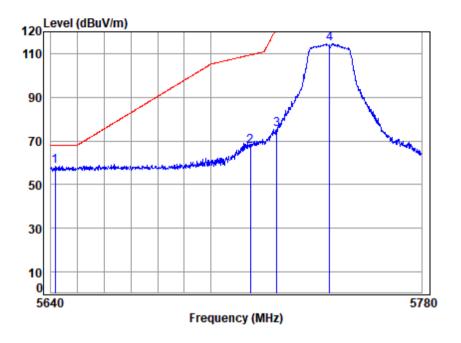


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

Page: 165 of 357

Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5745 Band edge

: 5GWIFI 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	
pp	5641.521	10.47	33.08	30.64	45.34	58.25	68.20	-9.95	peak
	5715.000	10.63	33.23	30.61	54.21	67.46	109.40	-41.94	peak
	5725.000	10.68	33.25	30.61	62.16	75.48	122.20	-46.72	peak
	5745.000	10.77	33.29	30.60	100.95	114.41			peak



1 2

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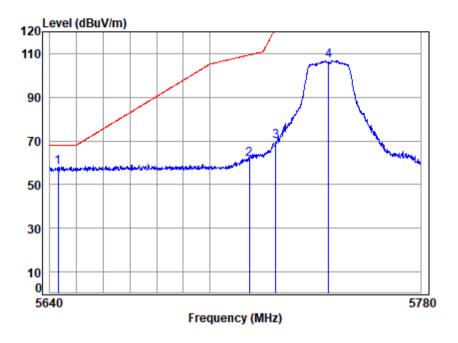


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5745 Band edge

5GWTFT 11Δ

	. 500		_						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	p 5643.043	10.47	33.09	30.64	45.22	58.14	68.20	-10.06	peak
2	5715.000	10.63	33.23	30.61	48.17	61.42	109.40	-47.98	peak
3	5725.000	10.68	33.25	30.61	56.26	69.58	122.20	-52.62	peak
4	5745.000	10.77	33.29	30.60	93.41	106.87			neak



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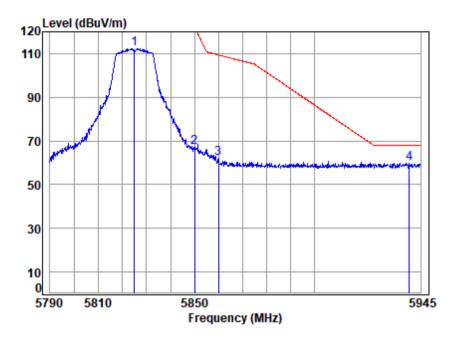


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5825 Band edge

: 5GWIFI 11A

				Preamp						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB		
	11112	u.	ub/ III	ub	aba*	abav, iii	abav, iii	u.b		
	5825.000	10.99	33.50	30.57	98.48	112.40			peak	
2	5850.000	10.95	33.60	30.56	53.24	67.23	122.20	-54.97	peak	
}	5860.000	10.94	33.58	30.56	48.07	62.03	109.40	-47.37	peak	
l p	p 5940.290	10.86	33.58	30.52	45.89	59.81	68.20	-8.39	peak	



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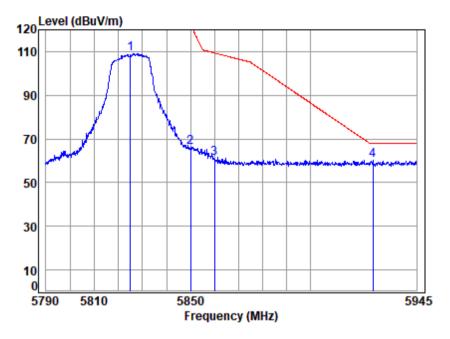


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Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No

1 2

Mode : 5825 Band edge

: 02101MO

: 5GWIFI 11A

				Preamp						
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
-										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5825.000	10.99	33.50	30.57	95.19	109.11			peak	
	5850.000	10.95	33.60	30.56	52.33	66.32	122.20	-55.88	peak	
	5860.000	10.94	33.58	30.56	47.13	61.09	109.40	-48.31	peak	
nn	5926 496	10 87	33 55	30 53	46 42	60 31	68 20	-7 89	neak	



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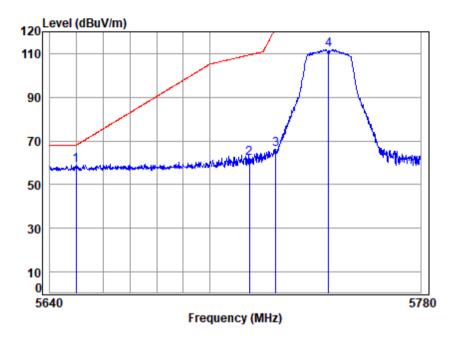


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Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5745 Band edge

: 5GWIFI 11AC20

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5649.827	10.48	33.10	30.64	46.05	58.99	68.20	-9.21	peak
	5715.000	10.63	33.23	30.61	48.75	62.00	109.40	-47.40	peak
	5725.000	10.68	33.25	30.61	52.80	66.12	122.20	-56.08	peak
	5745.000	10.77	33.29	30.60	98.53	111.99			peak



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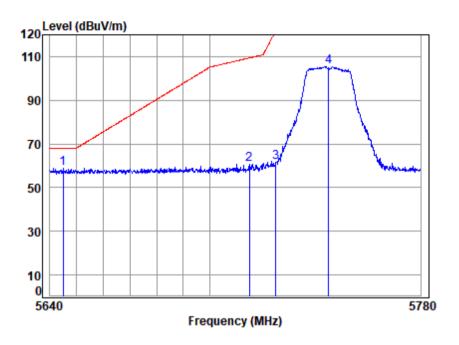


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5745 Band edge

: 5GWIFI 11AC20

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5644.980								-
	5715.000								•
	5725.000								•
4	5745.000	10.77	33.29	30.60	92.14	105.60			peak



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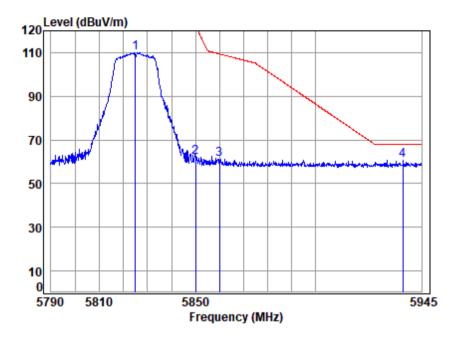


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Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5825 Band edge

: 5GWIFI 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	
	5825.000	10.99	33.50	30.57	96.23	110.15			peak
	5850.000	10.95	33.60	30.56	47.95	61.94	122.20	-60.26	peak
	5860.000	10.94	33.58	30.56	47.22	61.18	109.40	-48.22	peak
nn	5937 152								-



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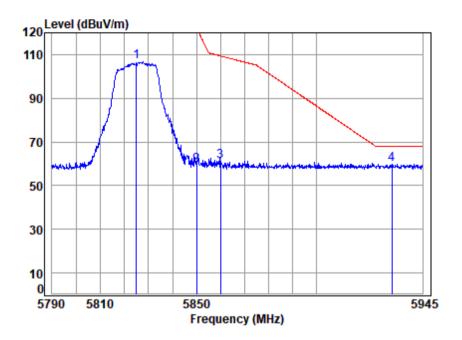


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5825 Band edge

: 5GWIFI 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	
	F02F 000	40.00	22.50	20 57	00.00	406 70			
	5825.000	10.99	33.50	30.57	92.80	106.72			реак
	5850.000	10.95	33.60	30.56	45.44	59.43	122.20	-62.77	peak
	5860.000	10.94	33.58	30.56	47.16	61.12	109.40	-48.28	peak
p	5931.979	10.86	33.56	30.53	45.99	59.88	68.20	-8.32	peak



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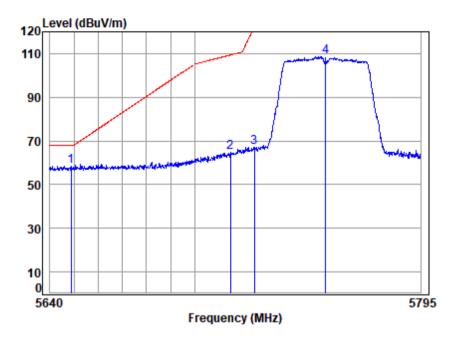


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Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5755 Band edge

: 5GWIFI 11AC40

-			Preamp					ъ
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
 EC 40 700	10 10	22 10	20 64	AE E1	E0 4E	69.20	0.75	naale
 5648.723 5715.000								•
5725.000								•
5755.000	10.81	33.31	30.60	95.08	108.60			peak



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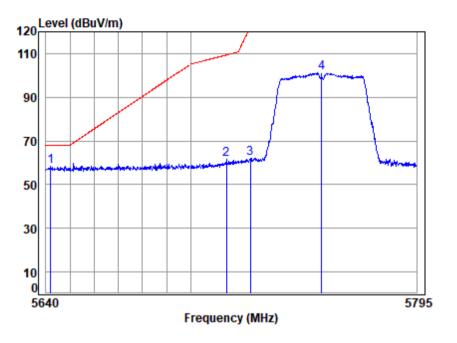


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Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5755 Band edge

: 5GWIFI 11AC40

	F			Preamp					Daniel
	Freq	Loss	Factor	Factor	revel	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
nn	5641.988	10 //7	33 08	30 64	15 11	58 35	68 20	_9 85	noak
	5715.000								
3	5725.000	10.68	33.25	30.61	48.83	62.15	122.20	-60.05	peak
ļ	5755.000	10.81	33.31	30.60	87.60	101.12			peak



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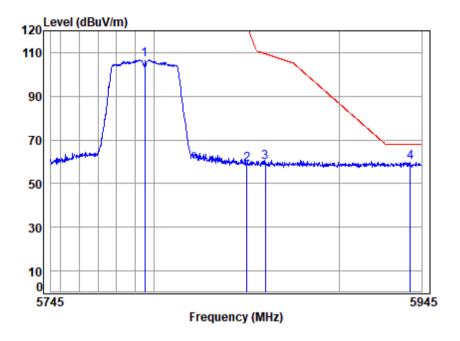


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Report No.: SZCR240600210105

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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5795 Band edge

: 5GWIFI 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	5795.000	11.00	33.39	30.58	92.93	106.74			peak
2	5850.000	10.95	33.60	30.56	44.96	58.95	122.20	-63.25	peak
3	5860.000	10.94	33.58	30.56	45.83	59.79	109.40	-49.61	peak
4 pp	5938.697	10.86	33.58	30.52	45.93	59.85	68.20	-8.35	peak



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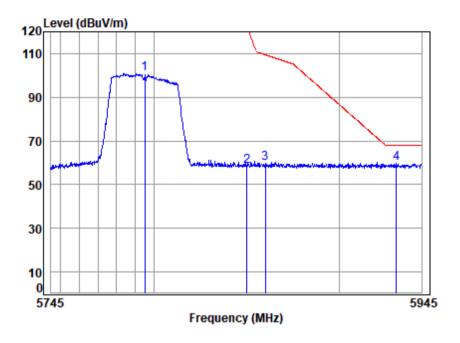


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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5795 Band edge

: 5GWIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
3	5850.000	10.95 10.94	33.60 33.58	30.56 30.56	44.27 45.90	58.26 59.86	122.20 109.40	-63.94 -49.54	peak peak



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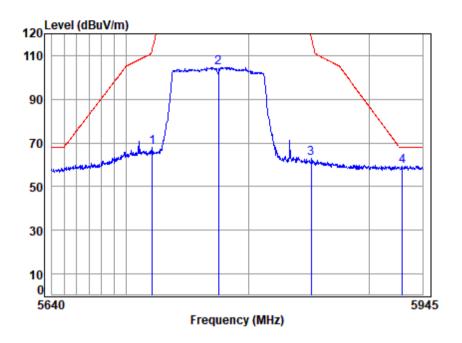


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Test Mode: 12; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 02101MO

Mode : 5775 Band edge

: 5GWIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1									•
3	5775.000 5851.808	10.95	33.60	30.56	48.86	62.85	118.08	-55.23	peak
4 pr	5928.117	10.87	33.56	30.53	45.62	59.52	68.20	-8.68	peak



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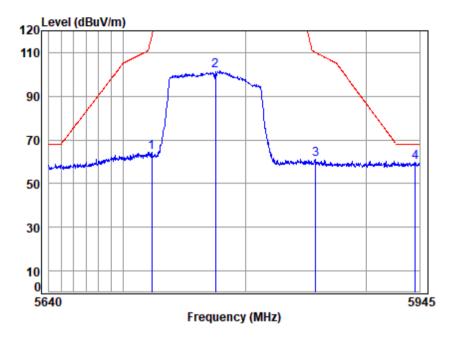


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Test Mode: 12; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Condition: 3m VERTICAL Job No : 02101MO

Mode : 5775 Band edge

: 5GWIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
							<del></del>			_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	F722 002	10 67	22.25	20 61	F4 00	64.30	447 27	F2 00		
	5722.883								•	
	5775.000	10.91	33.35	30.59	88.14	101.81			peak	
	5857.975	10.94	33.58	30.56	47.33	61.29	109.97	-48.68	peak	
pp	5941.557	10.86	33.58	30.52	46.05	59.97	68.20	-8.23	peak	



3

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#### 7.6 Channel Move Time

Test Requirement KDB 905462 D02 Section 5.1 Test Method: KDB 905462 D02 Section 7.8.3

Limit:

Test item	Limit	Applicability		
		Master Device or client with Radar Detection	Client without Radar Detection	
Non-occupancy period	Minimum 30 minutes	Yes	Not required	
Channel Availability Check Time	60 seconds	Yes	Not required	
Channel Move Time	10 seconds See Note 1.	Yes	Yes	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes	
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required	

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Atmospheric Pressure: 1020 mbar Humidity: 42.2 % RH



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#### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

#### 7.6.3 Test Setup Diagram





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#### 7.6.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details





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### 7.7 Duty Cycle

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

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

### 7.7.2 Test Mode Description

The root mode becomption			
Pre-scan / Final test	Mode Code	Description	
Final test	09	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	10	TX mode (U-NII-2A) _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	11	TX mode (U-NII-2C) _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	12	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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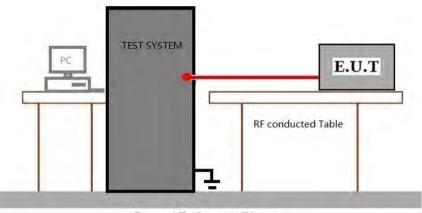
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### 7.7.3 Test Setup Diagram



Ground Reference Plane

### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.8 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

### 7.8.2 Test Mode Description

Tion Took Inione Becomption			
Pre-scan / Final test	Mode Code	Description	
Final test	09	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	10	TX mode (U-NII-2A) _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	11	TX mode (U-NII-2C) _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	12	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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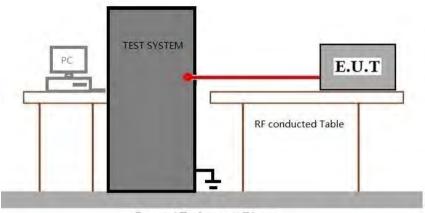
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### 7.8.3 Test Setup Diagram



Ground Reference Plane

#### 7.8.4 Measurement Procedure and Data

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### 7.9 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Tion Tool made becompact			
Pre-scan / Final test	Mode Code	Description	
Final test	09	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	10	TX mode (U-NII-2A) _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	11	TX mode (U-NII-2C) _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	12	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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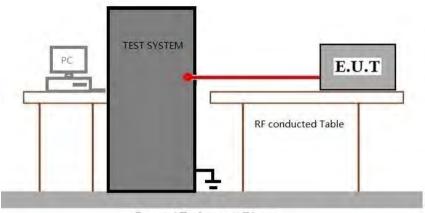
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### 7.9.3 Test Setup Diagram



Ground Reference Plane

#### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.10 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

### 7.10.1 E.U.T. Operation

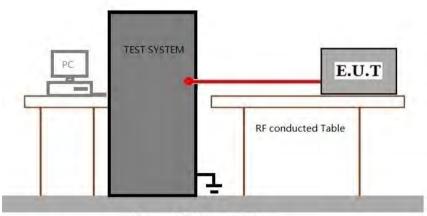
Operating Environment:

24.9 °C Temperature: Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

#### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Final test	12	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



Ground Reference Plane

#### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.11 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

#### Limit:

Frequenc	y band(MHz)	Limit
5150-5	250	≤17dBm in 1MHz for master device
5150-5	250	≤11dBm in 1MHz for client device
5250-5350		≤11dBm in 1MHz for client device
5470-5725		≤11dBm in 1MHz for client device
5725-5850		≤30dBm in 500 kHz
Remark:	The maximum power spectral density is measured as a conducted emis by direct connection of a calibrated test instrument to the equipment untest.	

### 7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

### 7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Final test	09	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	10	TX mode (U-NII-2A) _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	11	TX mode (U-NII-2C) _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	12	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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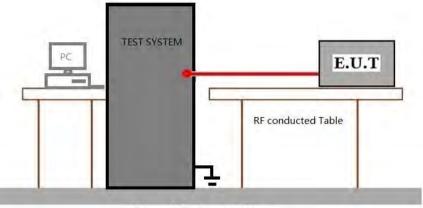


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### 7.11.3 Test Setup Diagram



Ground Reference Plane

#### 7.11.4 Measurement Procedure and Data

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### 7.12 Frequency Stability

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

### 7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description	
Final test	09	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	10	TX mode (U-NII-2A) _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	11	TX mode (U-NII-2C) _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	12	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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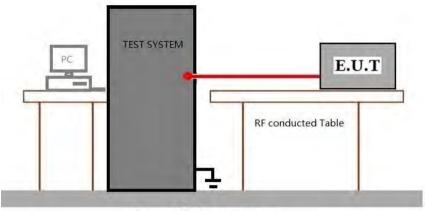
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### 7.12.3 Test Setup Diagram



Ground Reference Plane

#### 7.12.4 Measurement Procedure and Data

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### 7.13 Non-occupancy period

Test Requirement KDB 905462 D02 Section 5.1 Test Method: KDB 905462 D02 Section 7.8.3

#### Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

### 7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C Atmospheric Pressure: 1020 mbar Humidity: 42.2 % RH



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7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

### 7.13.3 Test Setup Diagram





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#### 7.13.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details





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### 7.14 Channel Closing Transmission Time

Test Requirement KDB 905462 D02 Section 5.1 Test Method: KDB 905462 D02 Section 7.8.3

#### Limit:

Test item	Limit	Applicability	
		Master Device or client with Radar Detection	Client without Radar Detection
Non-occupancy period	Minimum 30 minutes	Yes	Not required
Channel Availability Check Time	60 seconds	Yes	Not required
Channel Move Time	10 seconds See Note 1.	Yes	Yes
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

### 7.14.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 24.6 °C Humidity: 42.2 % RH



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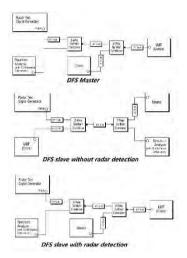
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7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	13	Normal operating_Keep the EUT communication with the companion device.

### 7.14.3 Test Setup Diagram





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#### 7.14.4 Measurement Procedure and Data

- 1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details





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#### **Test Setup Photo** 8

Refer to Appendix A.2 WLAN Setup Photos.



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# **Appendix**

- 1. Duty Cycle
- 1.1 Test Result

### 1.1.1 Ant1

Ant1										
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
802.11a	SISO	5180	2.030	2.065	98.31	0.07	0.04			
		5200	2.030	2.065	98.31	0.07	0.04			
		5240	2.030	2.065	98.31	0.07	0.04			
		5260	2.030	2.065	98.31	0.07	0.03			
		5300	2.030	2.065	98.31	0.07	0.04			
		5320	2.030	2.065	98.31	0.07	0.04			
		5500	2.030	2.065	98.31	0.07	0.04			
		5580	2.029	2.064	98.30	0.07	0.00			
		5700	2.029	2.065	98.26	0.08	0.00			
		5745	2.030	2.065	98.31	0.07	0.03			
		5785	2.029	2.064	98.30	0.07	0.00			
		5825	2.030	2.065	98.31	0.07	0.04			
802.11n (HT20)	SISO	5180	1.890	1.925	98.18	0.08	0.00			
		5200	1.890	1.925	98.18	0.08	0.03			
		5240	1.890	1.926	98.13	0.08	0.03			
		5260	1.890	1.925	98.18	0.08	0.03			
		5300	1.890	1.926	98.13	0.08	0.03			
		5320	1.890	1.926	98.13	0.08	0.03			
		5500	1.890	1.925	98.18	0.08	0.03			
		5580	1.890	1.926	98.13	0.08	0.03			
		5700	1.890	1.925	98.18	0.08	0.03			
		5745	1.890	1.926	98.13	0.08	0.03			
		5785	1.890	1.924	98.23	0.08	0.00			
		5825	1.889	1.925	98.13	0.08	0.03			
802.11n (HT40)	SISO	5190	0.930	0.964	96.47	0.16	0.03			
		5230	0.929	0.964	96.37	0.16	0.07			
		5270	0.929	0.964	96.37	0.16	0.00			
		5310	0.930	0.964	96.47	0.16	0.00			



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		5510	0.020	0.004	00.07	0.40	
		<u> </u>	0.929	0.964	96.37	0.16	0.00
1		5550	0.930	0.964	96.47	0.16	0.00
		5670	0.930	0.965	96.37	0.16	0.03
		5755	0.930	0.964	96.47	0.16	0.00
	-	5795	0.929	0.964	96.37	0.16	0.00
	SISO	5180	1.889	1.925	98.13	0.08	0.00
		5200	1.889	1.925	98.13	0.08	0.03
		5240	1.890	1.925	98.18	0.08	0.03
		5260	1.902	1.937	98.19	0.08	0.03
		5300	1.902	1.938	98.14	0.08	0.03
802.11ac		5320	1.902	1.937	98.19	0.08	0.03
(VHT20)		5500	1.890	1.926	98.13	0.08	0.03
	-	5580	1.889	1.924	98.18	0.08	0.00
	-	5700	1.889	1.925	98.13	0.08	0.00
		5745	1.890	1.926	98.13	0.08	0.03
		5785	1.889	1.924	98.18	0.08	0.00
		5825	1.889	1.924	98.18	0.08	0.00
	SISO	5190	0.930	0.964	96.47	0.16	0.00
		5230	0.929	0.964	96.37	0.16	0.00
		5270	0.937	0.972	96.40	0.16	0.00
		5310	0.929	0.964	96.37	0.16	0.00
802.11ac (VHT40)		5510	0.930	0.964	96.47	0.16	0.00
(11140)		5550	0.929	0.964	96.37	0.16	0.00
		5670	0.929	0.964	96.37	0.16	0.00
		5755	0.929	0.964	96.37	0.16	0.03
		5795	0.929	0.964	96.37	0.16	0.00
	SISO	5210	0.457	0.492	92.89	0.32	0.03
		5290	0.457	0.492	92.89	0.32	0.03
802.11ac (VHT80)		5530	0.457	0.492	92.89	0.32	0.07
( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (		5610	0.457	0.492	92.89	0.32	0.07
		5775	0.456	0.492	92.68	0.33	0.00



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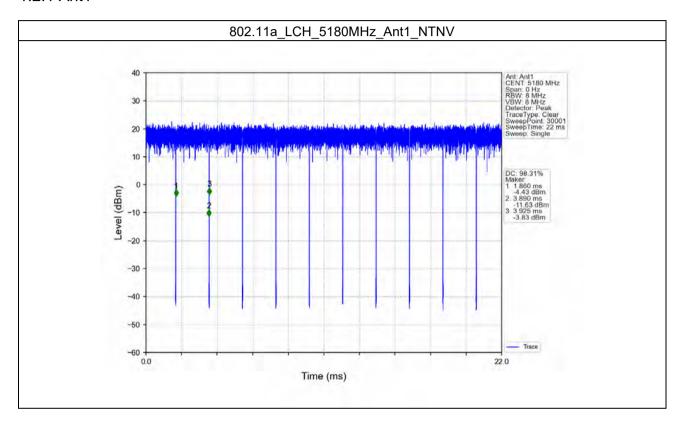
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### 1.2 Test Graph

### 1.2.1 Ant1





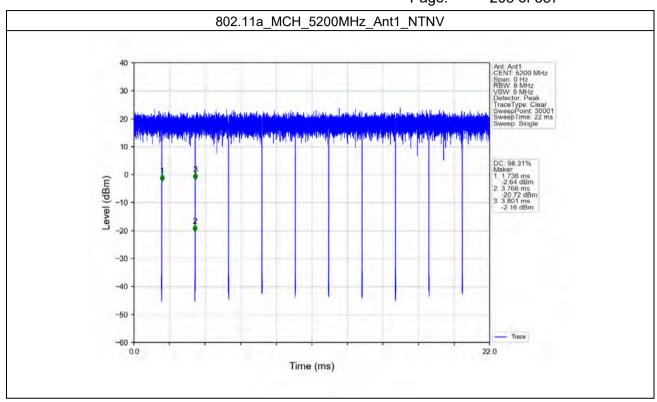
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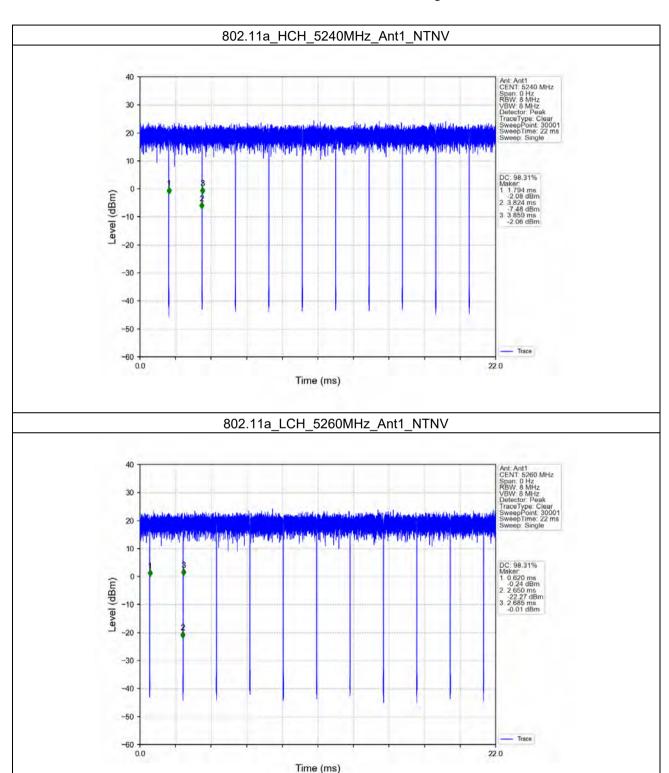
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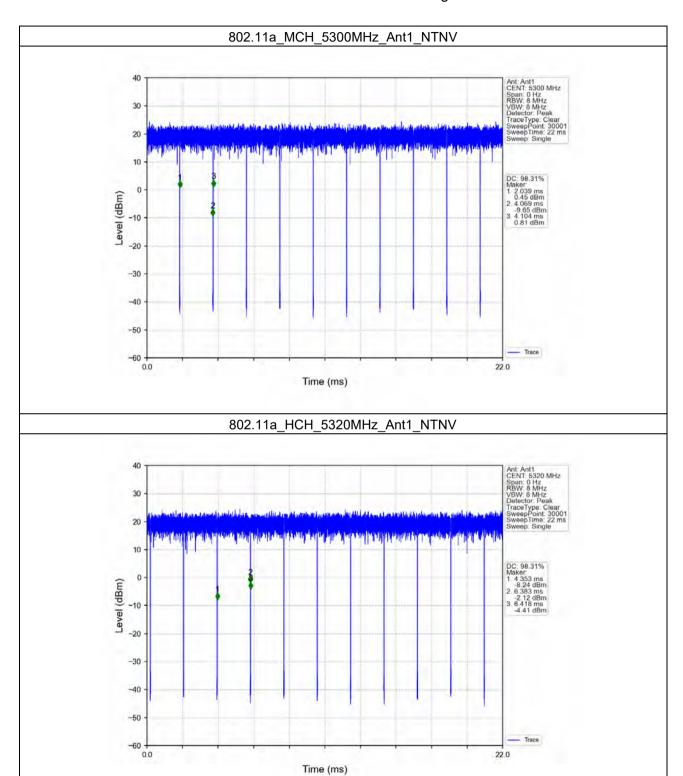
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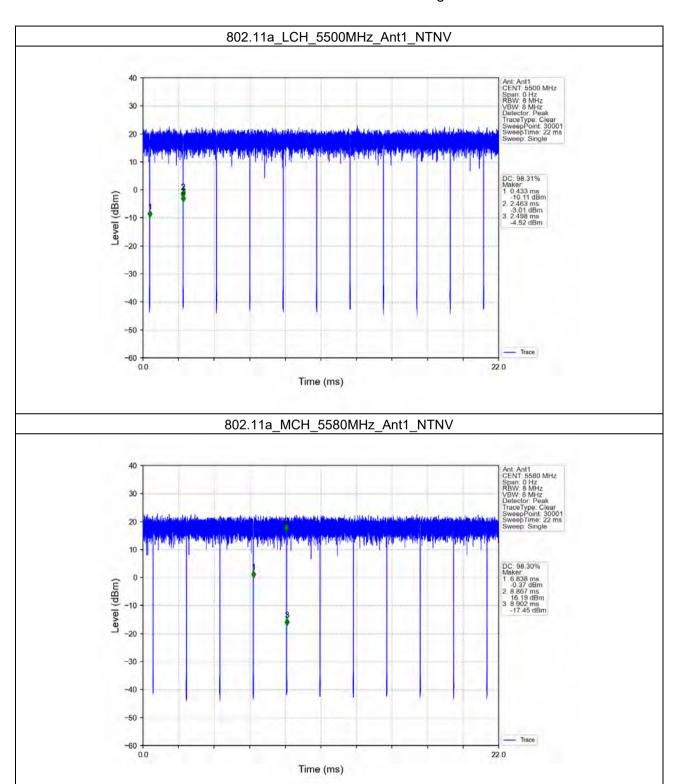
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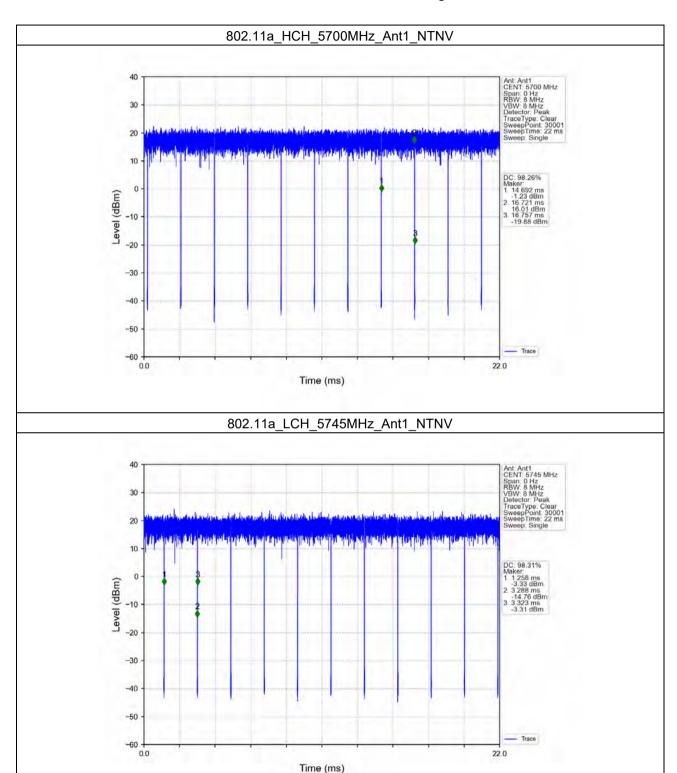
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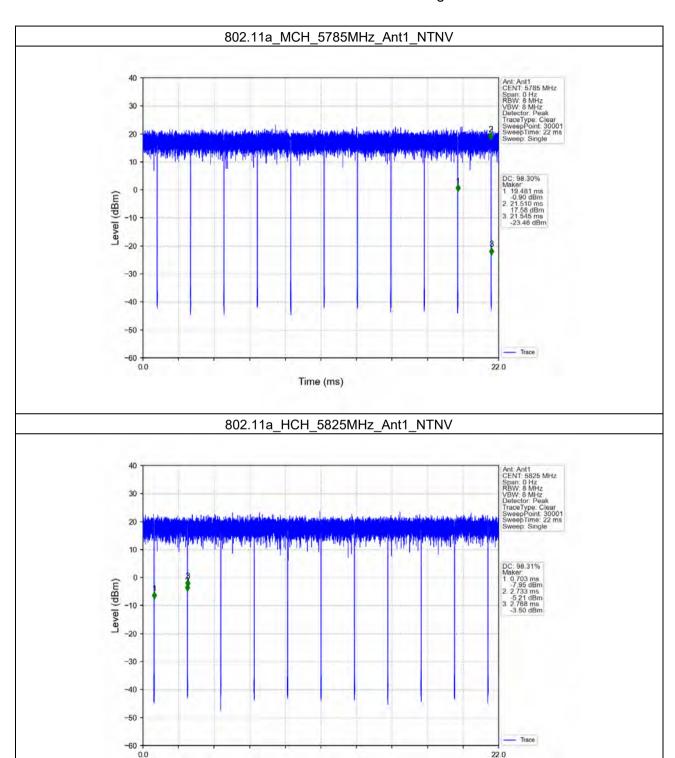
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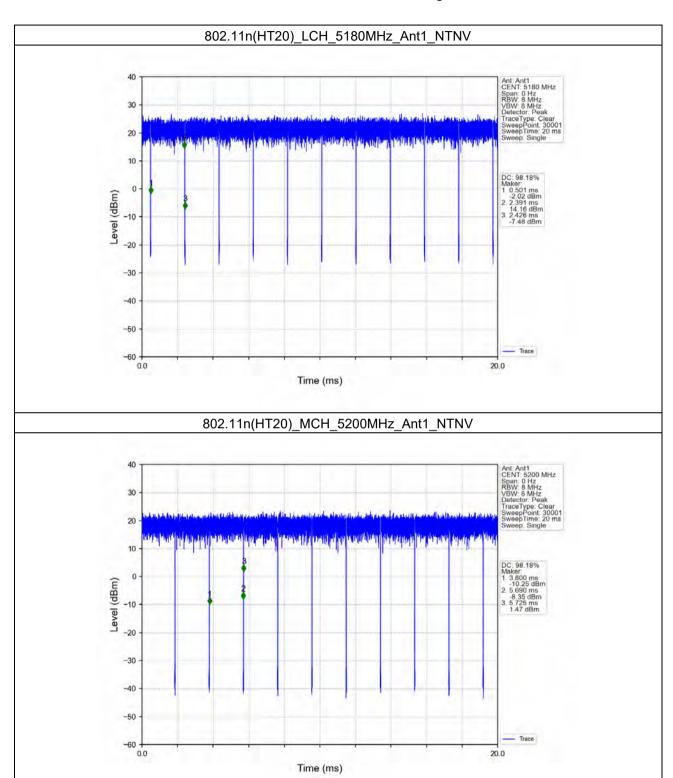
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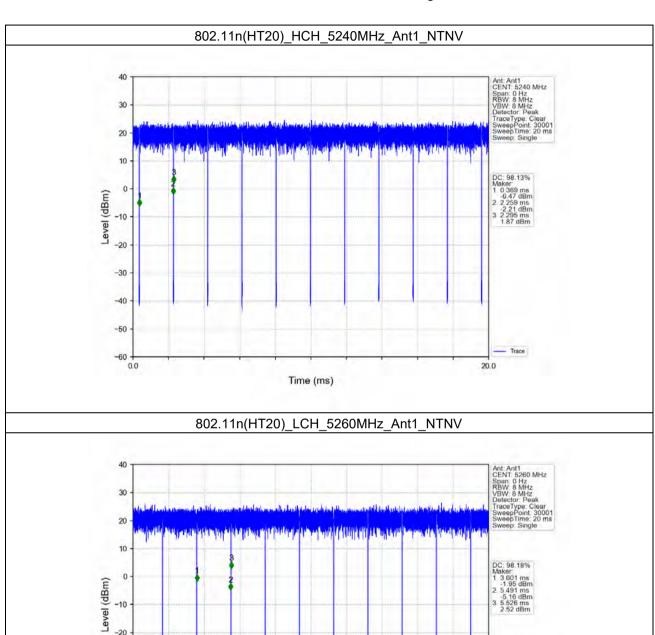
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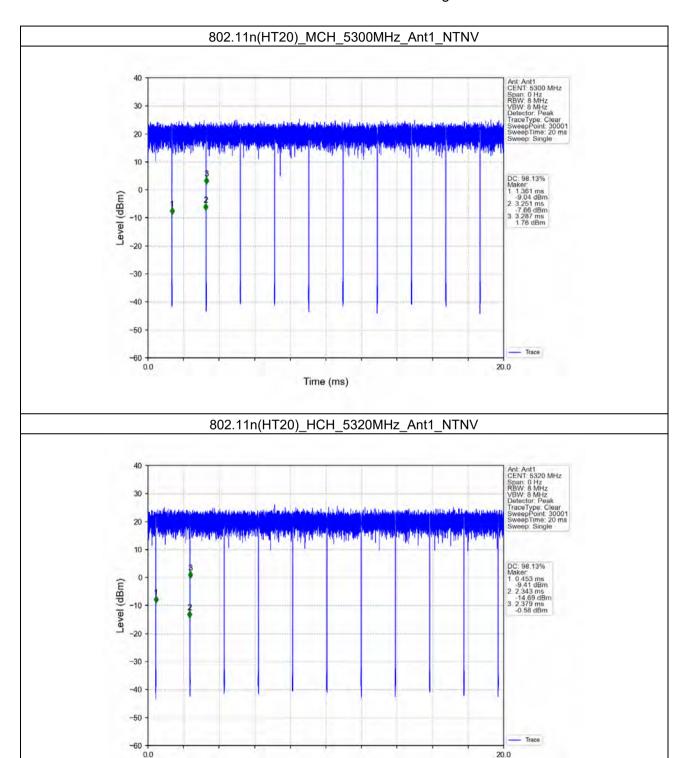
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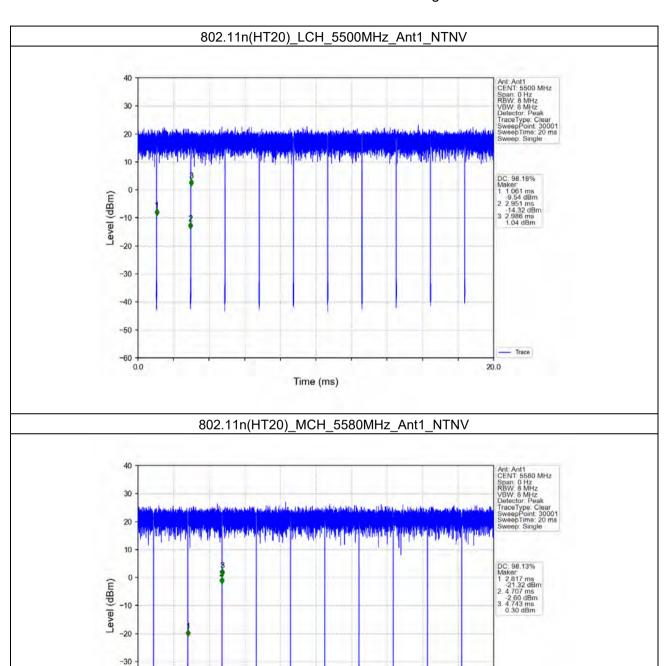
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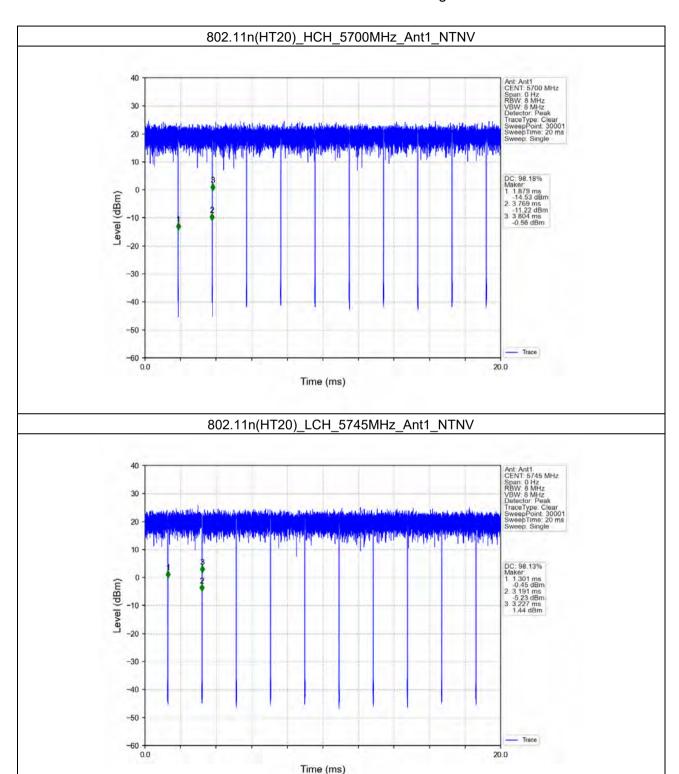
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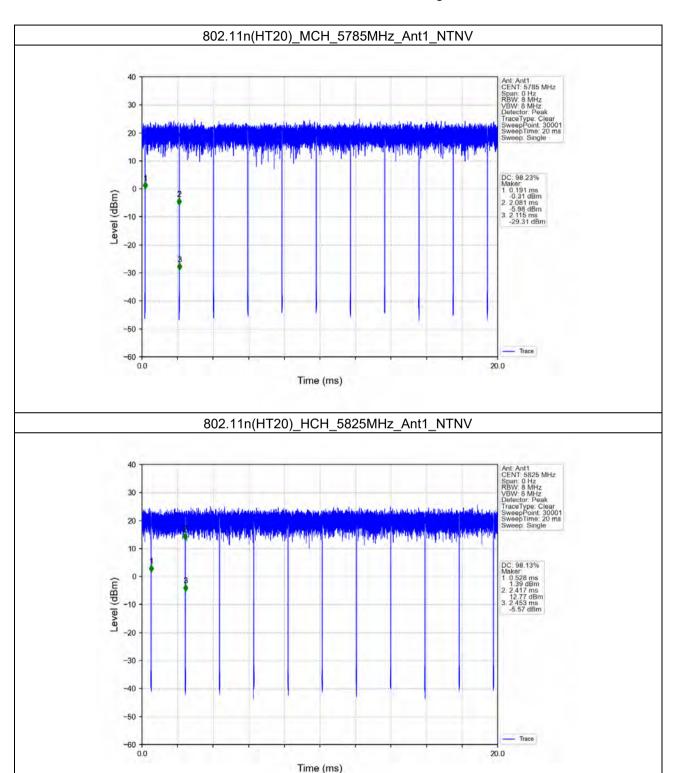
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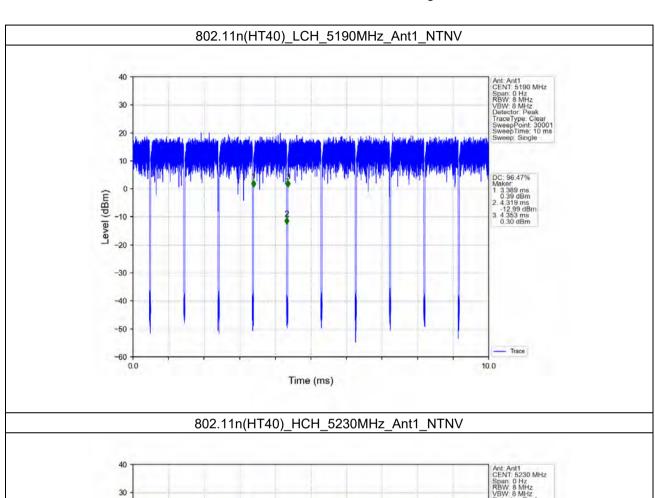
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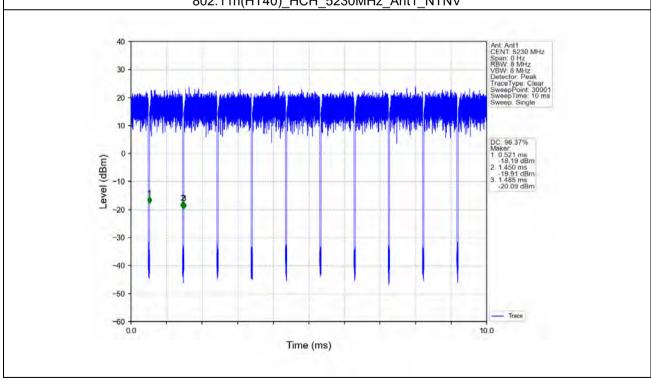


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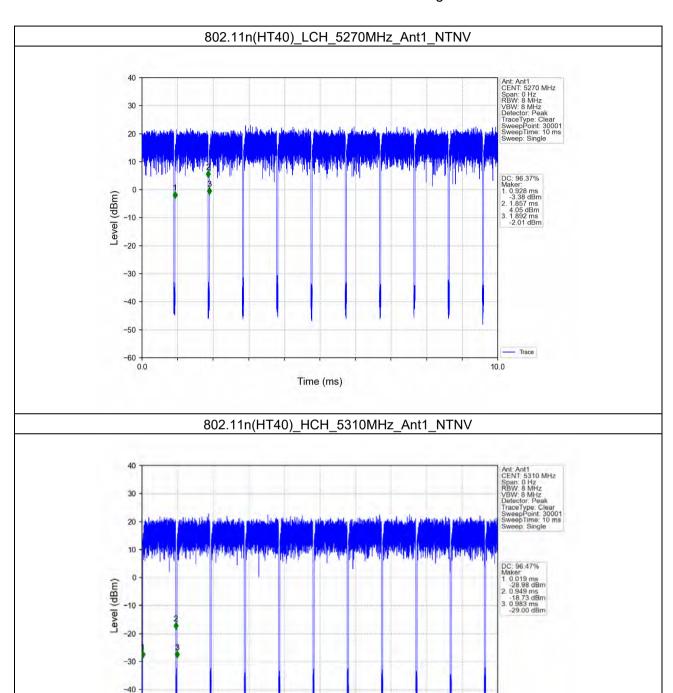
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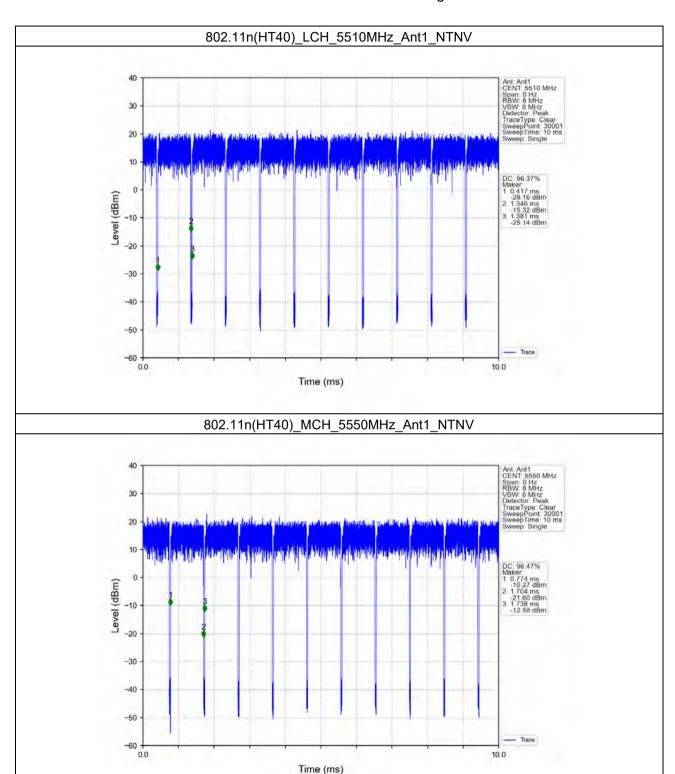
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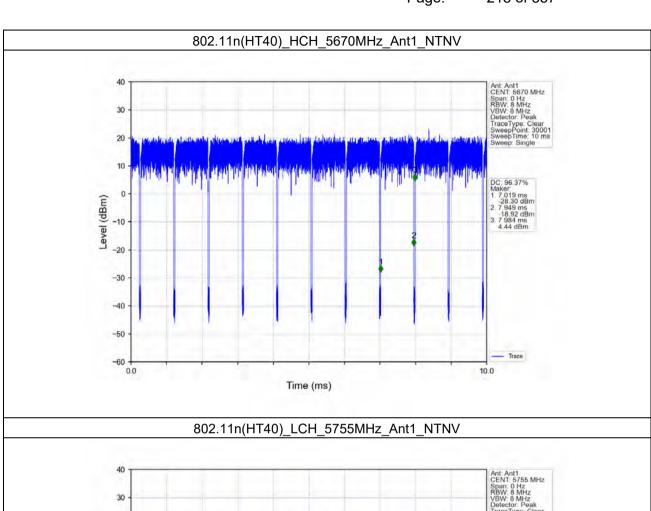
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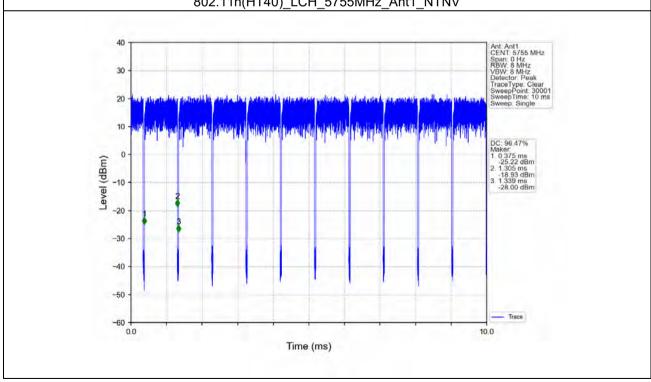


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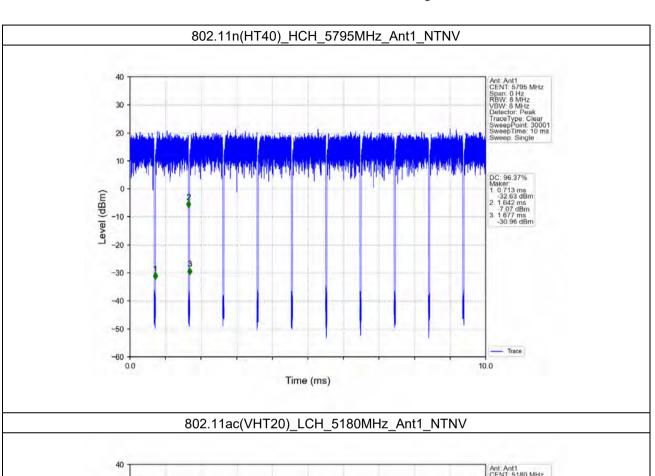
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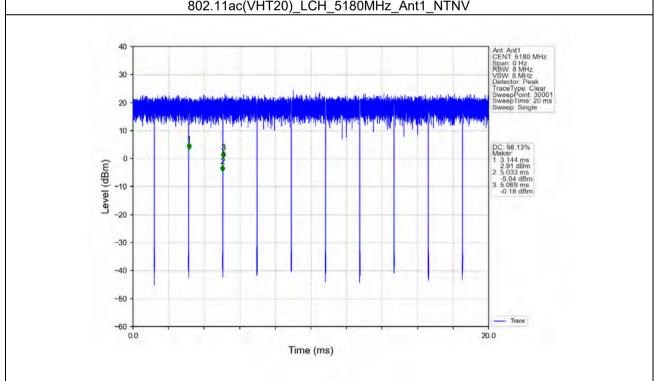


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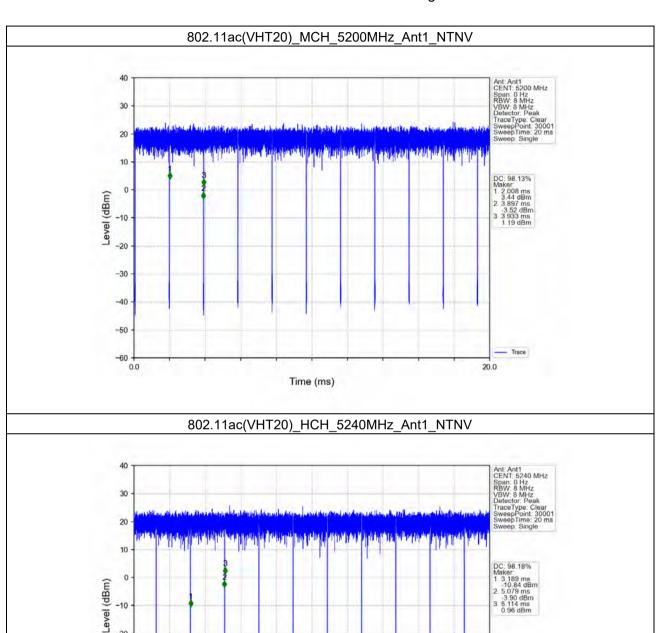
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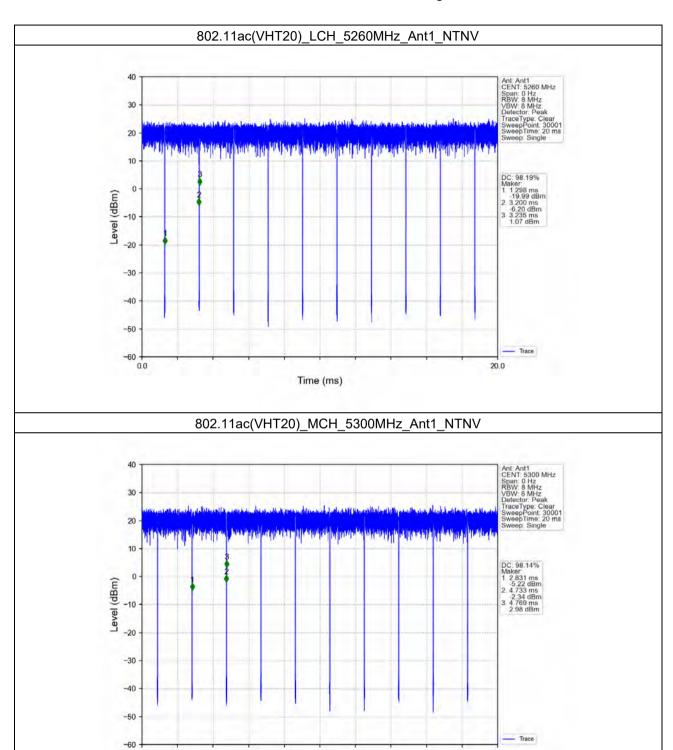
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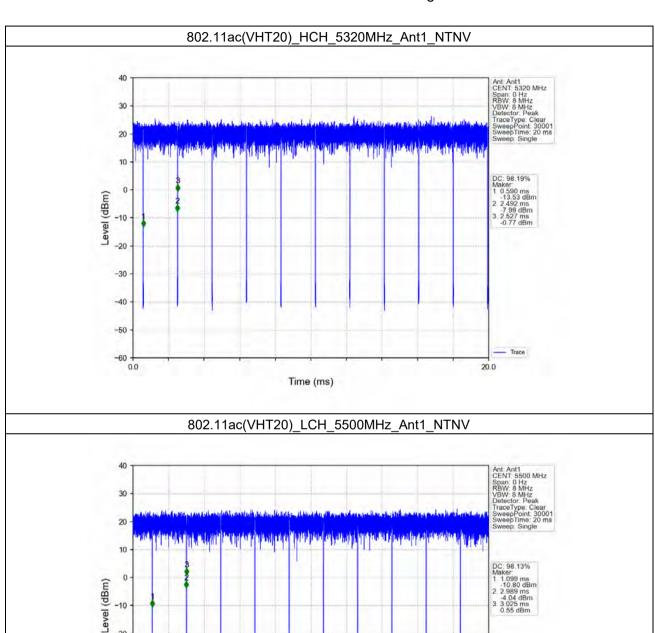
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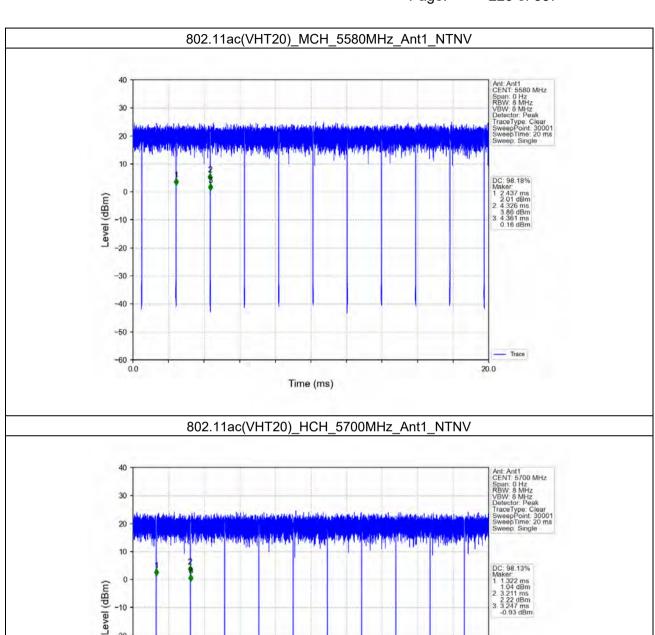
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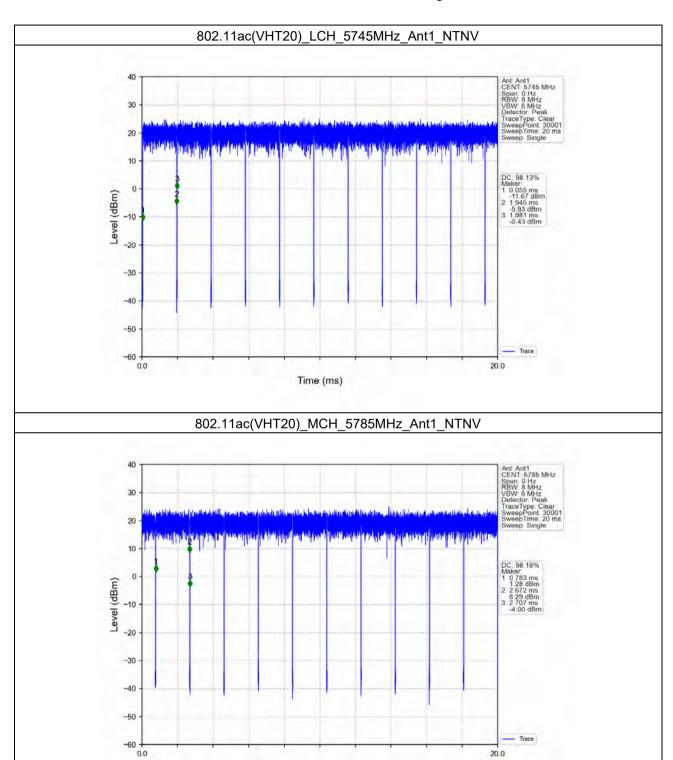
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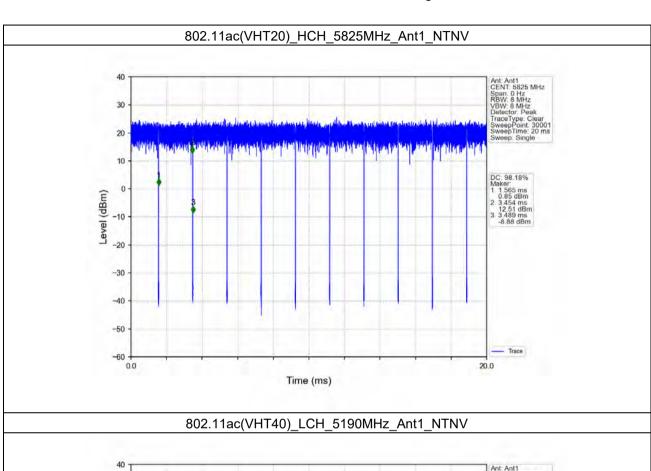
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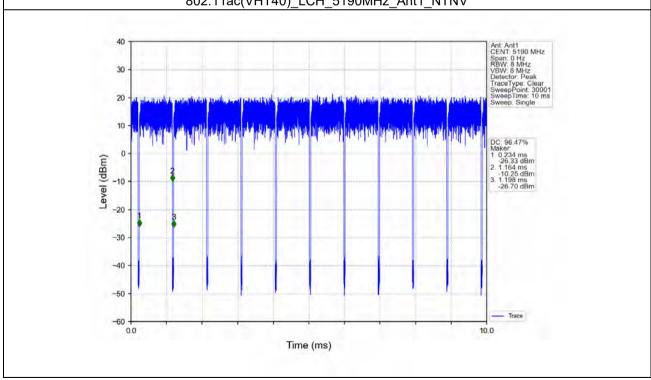


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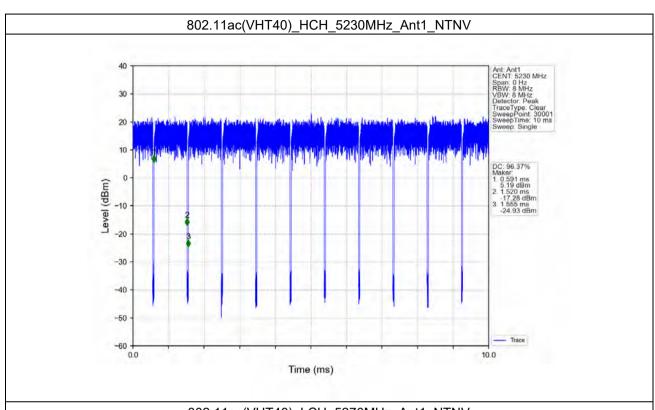
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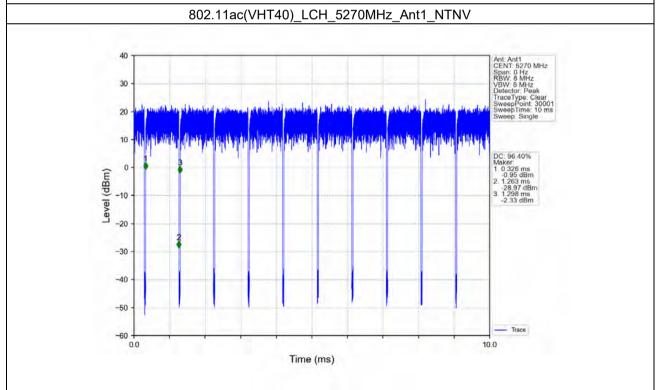


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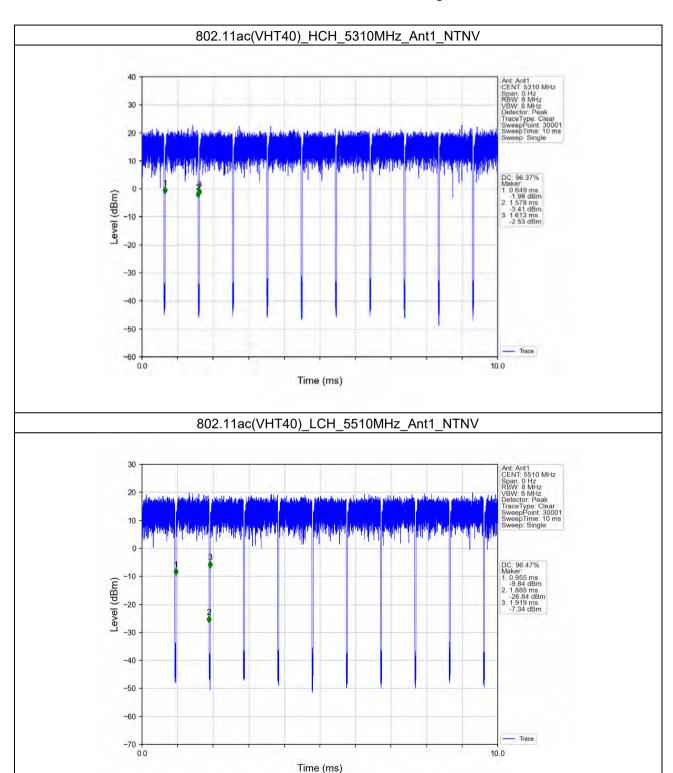
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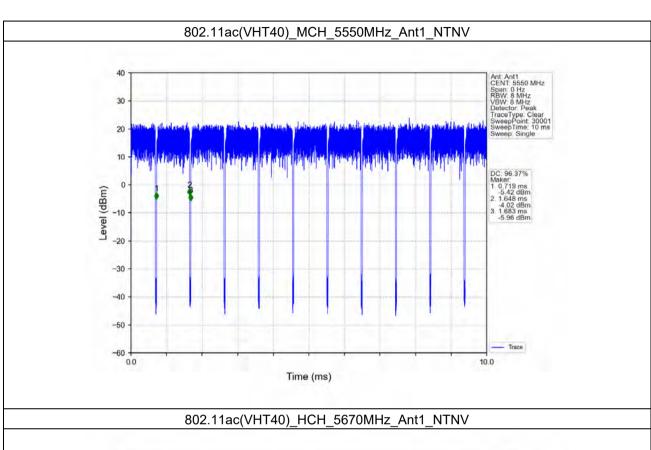
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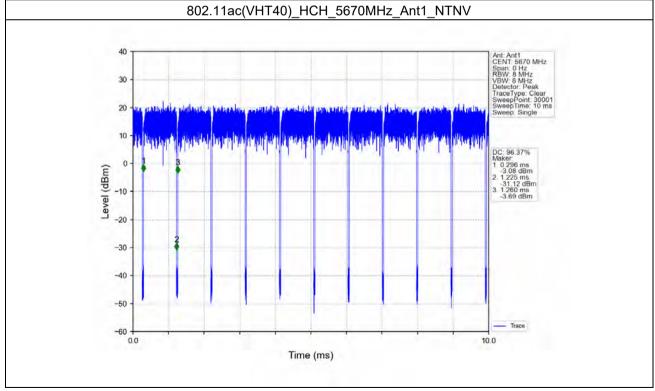


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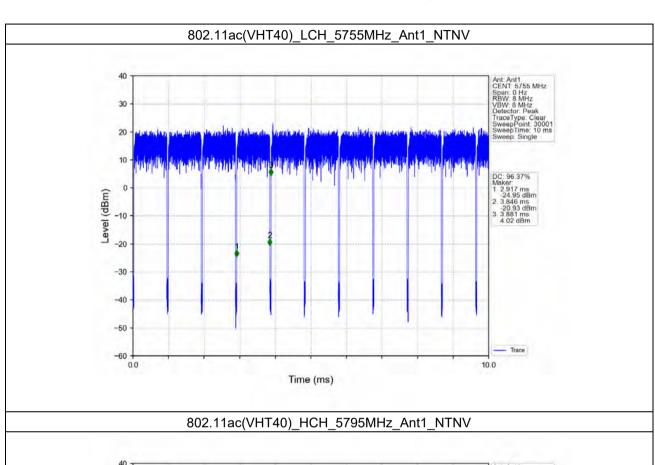
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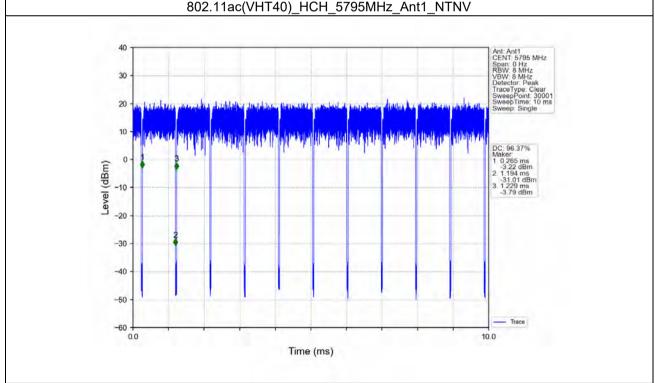


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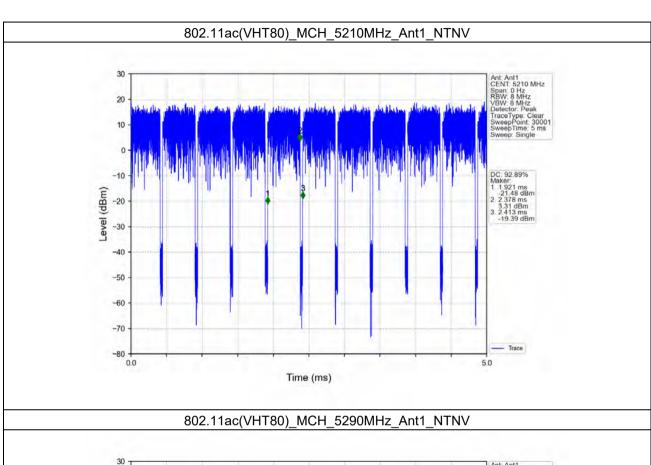
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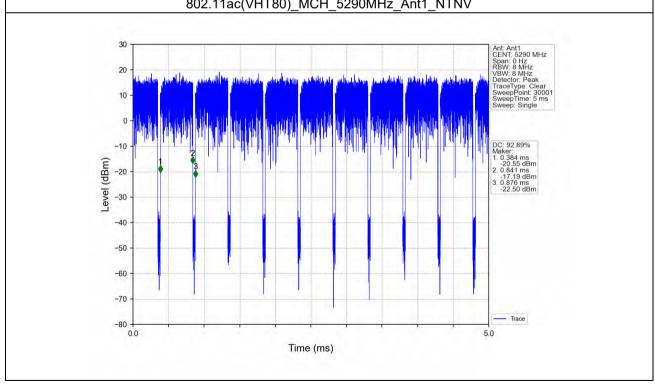


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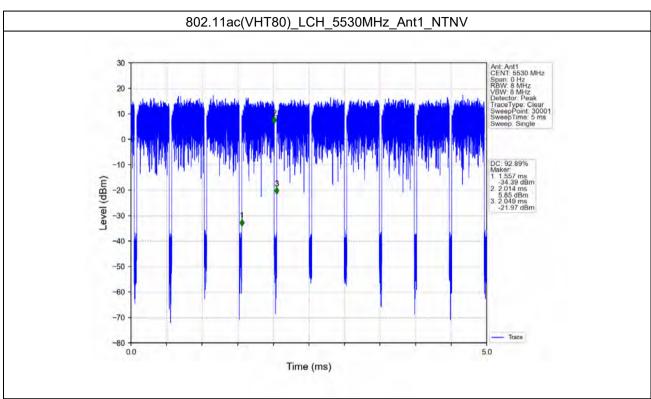
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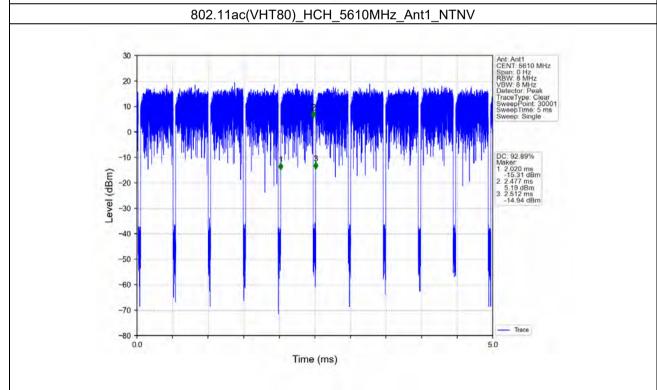


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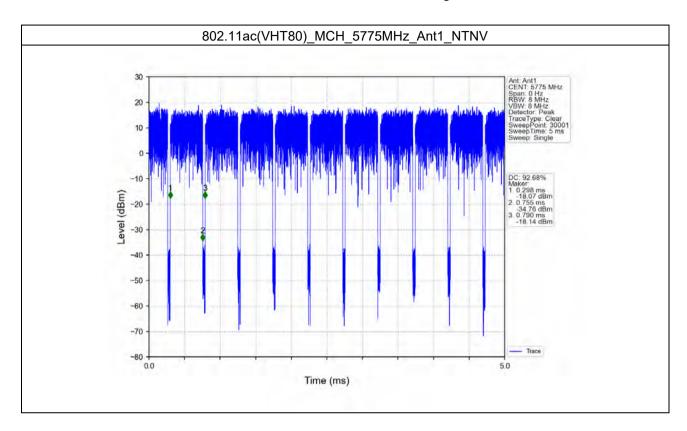
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#### 2. Bandwidth

#### 2.1 Test Result

#### 2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		\/ordist
wode				Result	Limit	Verdict
		5180	1	17.471	/	Pass
		5200	1	17.546	/	Pass
		5240	1	17.534	/	Pass
		5260	1	17.512	/	Pass
		5300	1	17.503	1	Pass
802.11a	SISO	5320	1	17.417	1	Pass
802.11a	5150	5500	1	17.427	1	Pass
		5580	1	17.446	1	Pass
		5700	1	17.403	/	Pass
		5745	1	17.455	1	Pass
		5785	1	17.365	1	Pass
		5825	1	17.408	1	Pass
	SISO	5180	1	18.567	1	Pass
		5200	1	18.576	1	Pass
		5240	1	18.507	1	Pass
		5260	1	18.552	1	Pass
		5300	1	18.588	1	Pass
802.11n		5320	1	18.536	1	Pass
(HT20)		5500	1	18.539	1	Pass
		5580	1	18.542	1	Pass
		5700	1	18.521	1	Pass
		5745	1	18.478	1	Pass
		5785	1	18.482	1	Pass
		5825	1	18.481	1	Pass
	SISO	5190	1	36.641	1	Pass
		5230	1	36.621	1	Pass
000.44		5270	1	36.709	1	Pass
802.11n (HT40)		5310	1	36.576	1	Pass
(11170)		5510	1	36.600	1	Pass
		5550	1	36.587	1	Pass
		5670	1	36.580		Pass



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		5755	1	36.613	1	Pass
		5795	1	36.626	1	Pass
		5180	1	18.537	1	Pass
		5200	1	18.511	1	Pass
		5240	1	18.551	1	Pass
		5260	1	18.555	1	Pass
		5300	1	18.570	1	Pass
802.11ac	SISO	5320	1	18.478	1	Pass
(VHT20)	3130	5500	1	18.499	1	Pass
		5580	1	18.442	1	Pass
		5700	1	18.502	1	Pass
		5745	1	18.488	1	Pass
		5785	1	18.507	1	Pass
		5825	1	18.435	1	Pass
	SISO	5190	1	36.622	1	Pass
		5230	1	36.612	1	Pass
		5270	1	36.678	1	Pass
000.44		5310	1	36.671	1	Pass
802.11ac (VHT40)		5510	1	36.711	1	Pass
(11140)		5550	1	36.603	1	Pass
		5670	1	36.599	1	Pass
		5755	1	36.581	1	Pass
		5795	1	36.671	1	Pass
	SISO	5210	1	76.415	1	Pass
000 44-		5290	1	76.412	1	Pass
802.11ac (VHT80)		5530	1	76.312	1	Pass
(**************************************		5610	1	76.384	1	Pass
		5775	1	76.243	1	Pass



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#### 2.1.2 6dB BW

Mada	TX Type	Frequency	ANT	6dB Bandwidth (MHz)		\/o mdi at
Mode		(MHz)		Result	Limit	Verdict
	SISO	5745	1	15.363	>=0.5	Pass
802.11a		5785	1	16.023	>=0.5	Pass
		5825	1	16.061	>=0.5	Pass
000 44	SISO	5745	1	15.733	>=0.5	Pass
802.11n (HT20)		5785	1	15.469	>=0.5	Pass
(11120)		5825	1	15.187	>=0.5	Pass
802.11n	SISO	5755	1	36.100	>=0.5	Pass
(HT40)		5795	1	36.301	>=0.5	Pass
000.44	SISO	5745	1	16.684	>=0.5	Pass
802.11ac (VHT20)		5785	1	15.886	>=0.5	Pass
(711120)		5825	1	15.156	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.058	>=0.5	Pass
		5795	1	35.684	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.188	>=0.5	Pass



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#### 2.1.3 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
Mode				Result	Limit	Veruici
		5180	1	23.347	1	Pass
		5200	1	23.608	1	Pass
		5240	1	23.978	1	Pass
		5260	1	23.830	1	Pass
802.11a	SISO	5300	1	24.114	1	Pass
		5320	1	22.907	1	Pass
		5500	1	23.164	1	Pass
		5580	1	22.485	1	Pass
		5700	1	22.825	1	Pass
		5180	1	25.001	1	Pass
		5200	1	23.612	1	Pass
		5240	1	23.091	/	Pass
		5260	1	23.828	/	Pass
802.11n (HT20)	SISO	5300	1	23.878	/	Pass
(11120)		5320	1	24.475	/	Pass
		5500	1	23.348	/	Pass
		5580	1	23.286	/	Pass
		5700	1	24.507	1	Pass
	SISO	5190	1	41.575	/	Pass
		5230	1	41.643	/	Pass
000.44		5270	1	41.572	/	Pass
802.11n (HT40)		5310	1	41.477	/	Pass
(11140)		5510	1	41.402	/	Pass
		5550	1	41.947	/	Pass
		5670	1	41.743	/	Pass
	SISO	5180	1	23.286	/	Pass
		5200	1	23.927	/	Pass
		5240	1	23.287	/	Pass
000.44		5260	1	23.306	/	Pass
802.11ac (VHT20)		5300	1	23.653	/	Pass
(VH120)		5320	1	23.511	/	Pass
		5500	1	24.220	/	Pass
		5580	1	23.558	/	Pass
		5700	1	22.920	1	Pass
802.11ac	CICO	5190	1	42.028	/	Pass
(VHT40)	SISO	5230	1	41.516	/	Pass



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		5270	1	41.321	1	Pass
		5310	1	41.483	/	Pass
		5510	1	41.793	/	Pass
		5550	1	41.312	/	Pass
		5670	1	41.499	/	Pass
802.11ac (VHT80)	SISO	5210	1	83.610	/	Pass
		5290	1	84.151	/	Pass
		5530	1	83.778	/	Pass
		5610	1	84.164	/	Pass



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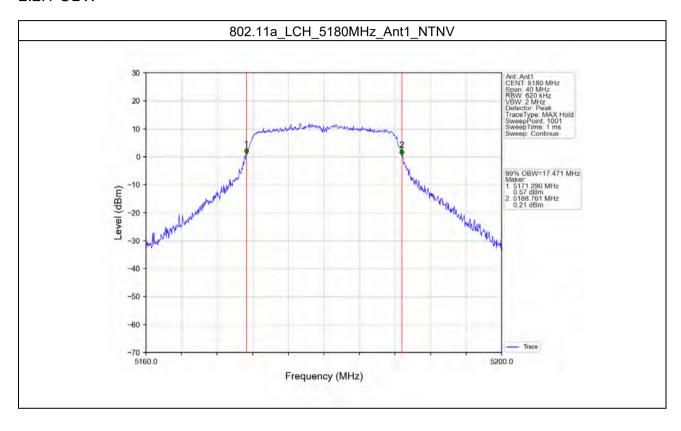
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#### 2.2 Test Graph

#### 2.2.1 OBW





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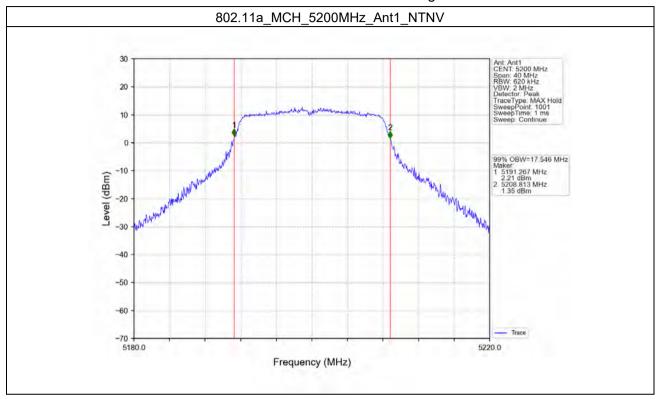
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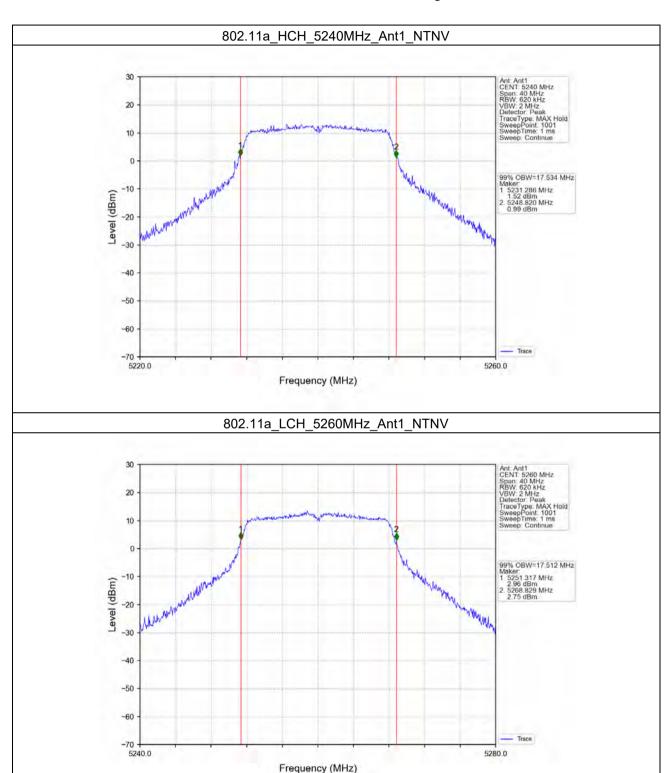
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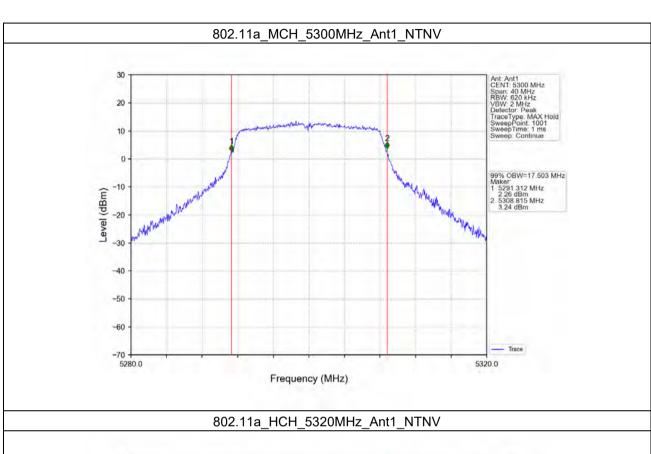
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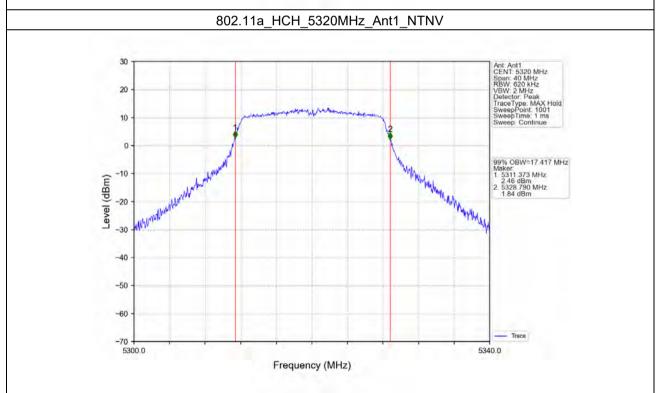


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