

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400113805

Page: 1 of 299

# TEST REPORT

Application No.: SZCR2404001138AT

Applicant: SZ DJI Osmo Technology Co., Ltd.

Address of Applicant: 4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui

Road North, Guangming Street, Guangming District, Shenzhen, China

Manufacturer: SZ DJI Osmo Technology Co., Ltd.

Address of Manufacturer: 4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui

Road North, Guangming Street, Guangming District, Shenzhen, China

Factory: SZ DJI Ronin Technology Co., Ltd.

Address of Factory: Floor 4-5, Block 13, Area 7, Baiwangxin Industrial Park, Songbai Rd,

Nanshan District, Shenzhen City, Guangdong Province, P. R. China

**Equipment Under Test (EUT):** 

**EUT Name:** Osmo Action 5 Pro

Model No.: AC004 Trade Mark: DJI

**FCC ID:** 2ANDR-AC0042024

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

**Date of Receipt:** 2024-04-02

**Date of Test:** 2024-04-11 to 2024-05-07

**Date of Issue:** 2024-05-13

Test Result: Pass\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 2 of 299

	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2024-05-13		Original			

Authorized for issue by:		
	Darren Yvan	
	Darren Yuan/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 3 of 299

#### **Test Summary** 2

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

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

Note: Both battery 1# and battery 2# were pre-tested, EUT powered by battery 1# is the worse case, Only the worse case test data were recorded in this report.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 4 of 299

### **Contents**

			Page
1	Cover	· Page	1
2	Test S	Summary	
		•	
3	Conte	ents	4
4	Gener	ral Information	е
	4.1 C	Details of E.U.T	F
		Description of Support Units	
		Measurement Uncertainty	
		Fest Location	
	4.5 T	Test Facility	8
	4.6 D	Deviation from Standards	8
	4.7 A	Abnormalities from Standard Conditions	8
5	Equip	ment List	9
•			
6	Radio	Spectrum Technical Requirement	14
	6.1 A	Antenna Requirement	14
	6.1.1	Test Requirement:	14
	6.1.2	Conclusion	
	6.2 T	Fransmission in the Absence of Data	
	6.2.1	Test Requirement:	15
	6.2.2	Conclusion	15
7	Radio	Spectrum Matter Test Results	16
	7.1 C	Conducted Emissions at AC Power Line (150kHz-30MHz)	16
	7.1.1	E.U.T. Operation	16
	7.1.2	Test Mode Description	
	7.1.3	Test Setup Diagram	
	7.1.4	Measurement Procedure and Data	
		Outy Cycle	
	7.2.1	E.U.T. Operation	
	7.2.2	Test Mode Description	
	7.2.3	Test Setup Diagram	
	7.2.4	Measurement Procedure and Data	
		99% Bandwidth	
	7.3.1	E.U.T. Operation	
	7.3.2	Test Mode Description	
	7.3.3 7.3.4	Test Setup Diagram	
		Measurement Procedure and Data	
	7.4 Z	E.U.T. Operation	
	7.4.1	Test Mode Description	
	7.4.2	Test Setup Diagram	
	٠.٠٠٠	· oo. oo.up Diagram	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 5 of 299

	7.4.4	Measurement Procedure and Data	24
7.5	5 N	Inimum 6 dB bandwidth (5.725-5.85 GHz band )	25
	7.5.1	E.U.T. Operation	25
	7.5.2	Test Mode Description	25
	7.5.3	Test Setup Diagram	26
	7.5.4	Measurement Procedure and Data	26
7.6	5 N	Maximum Conducted output power	27
,	7.6.1	E.U.T. Operation	27
,	7.6.2	Test Mode Description	27
	7.6.3	Test Setup Diagram	
,	7.6.4	Measurement Procedure and Data	
7.7	F	Peak Power spectrum density	29
,	7.7.1	E.U.T. Operation	
,	7.7.2	Test Mode Description	29
	7.7.3	Test Setup Diagram	
,	7.7.4	Measurement Procedure and Data	
7.8		Radiated Emissions (Below 1GHz)	
	7.8.1	E.U.T. Operation	
,	7.8.2	Test Mode Description	
,	7.8.3	Test Setup Diagram	
,	7.8.4	Measurement Procedure and Data	
7.9		Radiated Emissions (Above 1GHz)	
,	7.9.1	E.U.T. Operation	
,	7.9.2	Test Mode Description	
	7.9.3	Test Setup Diagram	
	7.9.4	Measurement Procedure and Data	
7.1	0 F	Radiated Emissions which fall in the restricted bands	
	7.10.1		
	7.10.2		
	7.10.3		
	7.10.4		
7.1		requency Stability	
	7.11.1	E.U.T. Operation	
	7.11.2	·	
	7.11.3	1 0	
	7.11.4	Measurement Procedure and Data	158
8	Test S	Setup Photo	159
9	EUT C	constructional Details (EUT Photos)	159
		ndix	



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400113805

Page: 6 of 299

### 4 General Information

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

4.1	Details of E.U.T.				
	Power supply:	Powered by Lithium Ion Rechargeable Battery			
		Battery 1# information:			
		Model: BCX202-1770-3.85			
		Nominal Voltage: 3.85V			
		Rated Capacity: 1770mAh 6.81Wh			
		Battery 2# information:			
		Model: BCX204-1950-3.87			
		Nominal Voltage: 3.87V			
		Rated Capacity: 1950mAh 7.55Wh			
	Cable(s):	Type-C to Type-C Cable: 50cm unshielded			
	Operation Frequency	U-NII-1: 5180MHz-5240MHz			
	(20MHz):	U-NII-3: 5745MHz -5825MHz			
	Operation Frequency	U-NII-1: 5190MHz-5230MHz			
	(40MHz):	U-NII-3: 5755MHz -5795MHz			
	Operation Frequency	U-NII-1: 5210MHz			
	(80MHz):	U-NII-3: 5775MHz			
	Channel number (20MHz):	U-NII-1: 4, U-NII-3: 5			
	Channel number (40MHz):	U-NII-1: 2, U-NII-3: 2			
	Channel number (80MHz):	U-NII-1: 1, U-NII-3: 1			
		802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK);			
	Madulatian Tonas	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);			
	Modulation Type:	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);			
		802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)			
		802.11a/n/ac/ax 20: 20MHz;			
	Channel Spacing:	802.11n/ac/ax 40: 40MHz;			
		802.11ac/ax 80: 80MHz			
	DFS Function:	Slave without Radar detection			
	TPC Function:	Without TPC function			
	Antenna Type:	Integral Antenna			
		U-NII-1: ANT0: 1dBi, ANT1: 0dBi			
	Antenna Gain:	U-NII-3: ANT0: -3dBi, ANT1: 0.9dBi			
	Cable Loss (for RF	U-NII-1: 1.6dB			
	conducted test):	U-NII-3: 1.9dB			
	Domarka The information				

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Report No.: SZCR240400113805

Page: 7 of 299

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Huntkey	PD-30CN	N/A

### 4.3 Measurement Uncertainty

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

#### Remark:

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

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



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400113805

> Page: 8 of 299

#### 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 9 of 299

#### 5 **Equipment List**

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

Duty Cycle						
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	2023-07-07	2024-07-06	
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	

99% Bandwidth							
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	2023-07-07	2024-07-06		
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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 10 of 299

26dB Emission bandwidth					
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	2023-07-07	2024-07-06
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

Minimum 6 dB bandwidth (5.725-5.85 GHz band )					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	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	2023-07-07	2024-07-06
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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 11 of 299

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
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

Peak Power spectrum density					
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	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18

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



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 12 of 299

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

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

Frequency Stability					
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	2023-07-07	2024-07-06
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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 13 of 299

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



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> Page: 14 of 299

## Radio Spectrum Technical Requirement

#### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### Conclusion 6.1.2

#### Standard Requirement:

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

#### 15.247(b) (4) requirement:

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

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antennas are list as follows:

Dond	Antenna Gain (dBi)		Directional Coin (dDi)	
Band	ANT0	ANT1	Directional Gain (dBi)	
U-NII-1	1	0	4.01	
U-NII-3	-3	0.9	3.91	

Antenna location: Refer to internal photo.



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> Page: 15 of 299

#### 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

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

EUT Details: Wi-Fi 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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> Page: 16 of 299

#### **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:

Eroguanay of amission/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: 45.5 % RH Atmospheric Pressure: 1020 mbar

#### 7.1.2 Test Mode Description

7.1.2 163t W	ouc Dc.	compact
Pre-scan / Final test	Mode Code	Description
Final test	11	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Pre-scan	12	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.



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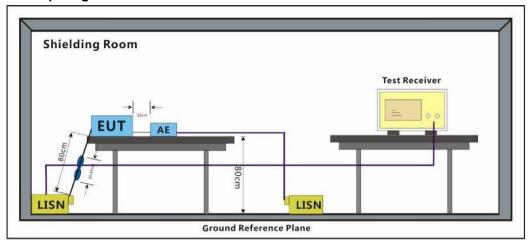
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400113805

> Page: 17 of 299

#### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

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

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



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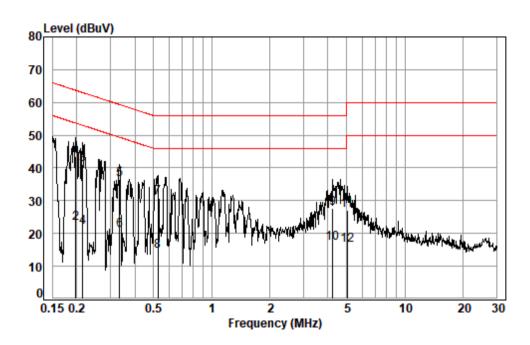


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 18 of 299

Test Mode: 11; Line: Live line



: Shielding Room

Condition: Line

: 01138AT/01139AT Job No.

Test mode: 11

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1976	0.02	9.93	33.47	43.42	63.71	-20.29	QP
2	0.1976	0.02	9.93	13.04	22.99	53.71	-30.72	Average
3	0.2151	0.03	9.94	30.95	40.92	63.01	-22.09	QP
4	0.2151	0.03	9.94	12.04	22.01	53.01	-31.00	Average
5	0.3338	0.03	10.02	26.42	36.47	59.35	-22.88	QP
6 *	0.3338	0.03	10.02	11.00	21.05	49.35	-28.30	Average
7	0.5265	0.04	9.99	21.08	31.11	56.00	-24.89	QP
8	0.5265	0.04	9.99	4.53	14.56	46.00	-31.44	Average
9	4.2466	0.08	10.03	17.69	27.80	56.00	-28.20	QP
10	4.2466	0.08	10.03	6.93	17.04	46.00	-28.96	Average
11	5.0312	0.09	10.04	17.06	27.19	60.00	-32.81	QP
12	5.0312	0.09	10.04	6.17	16.30	50.00	-33.70	Average



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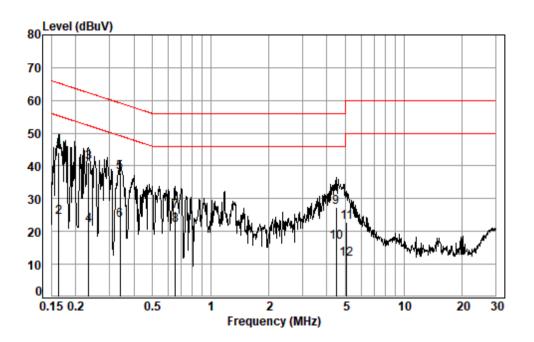


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 19 of 299

Test Mode: 11; Line: Neutral Line



: Shielding Room

Condition: Neutral

Job No. : 01138AT/01139AT

Test mode: 11

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1633	0.02	9.89	34.07	43.98	65.30	-21.32	QP
2	0.1633	0.02	9.89	14.46	24.37	55.30	-30.93	Average
3 *	0.2341	0.03	9.91	31.26	41.20	62.30	-21.10	QP
4	0.2341	0.03	9.91	11.97	21.91	52.30	-30.39	Average
5	0.3392	0.03	9.92	27.98	37.93	59.22	-21.29	QP
6	0.3392	0.03	9.92	13.53	23.48	49.22	-25.74	Average
7	0.6578	0.04	9.97	16.12	26.13	56.00	-29.87	QP
8 *	0.6578	0.04	9.97	11.97	21.98	46.00	-24.02	Average
9	4.4777	0.09	10.00	17.18	27.27	56.00	-28.73	QP
10	4.4777	0.09	10.00	6.67	16.76	46.00	-29.24	Average
11	5.0580	0.09	10.01	12.61	22.71	60.00	-37.29	QP
12	5.0580	0.09	10.01	1.37	11.47	50.00	-38.53	Average



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400113805

> Page: 20 of 299

7.2 Duty Cycle

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

	Table 1000 mode 5000 mp.ton			
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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.		
Final test	10	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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.		



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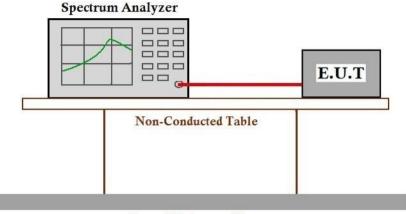
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> Page: 21 of 299

#### 7.2.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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> Page: 22 of 299

#### 7.3 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

#### 7.3.2 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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Final test	10	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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.



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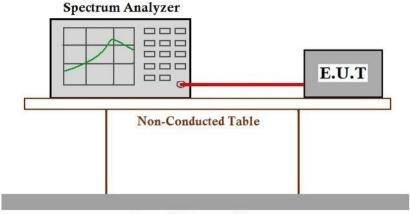
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> Page: 23 of 299

#### 7.3.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 24 of 299

#### 7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

#### 7.4.1 E.U.T. Operation

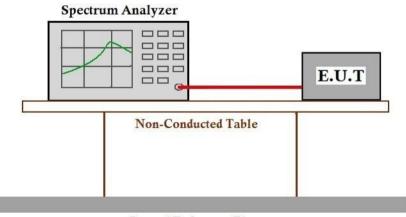
Operating Environment:

Temperature: 25.3 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

#### 7.4.2 Test Mode Description

	Hiz Took Mode Bookington				
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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.			

#### 7.4.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Report No.: SZCR240400113805

Page: 25 of 299

#### 7.5 Minimum 6 dB bandwidth (5.725-5.85 GHz band )

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

Test Method: KDB 789033 D02 II C 2

Limit:

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

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

Operating Environment:

25.3 °C Atmospheric Pressure: 1020 mbar Temperature: Humidity: 42.4 % RH

#### 7.5.2 Test Mode Description

	10.2 Test mode besomption				
Pre-scan / Final test	Mode Code	Description			
Final test	10	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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.			



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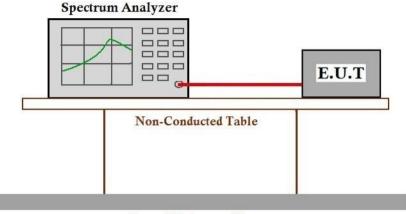
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> Page: 26 of 299

#### 7.5.3 Test Setup Diagram



**Ground Reference Plane** 

#### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 27 of 299

### 7.6 Maximum Conducted output power

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

Test Method: KDB 789033 D02 II E

#### Limit:

Frequen	cy band(MHz)	Limit
5150-	E250	≤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 interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.	

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

Operating Environment:

Atmospheric Pressure: 1020 mbar Temperature: 25.3 °C Humidity: 42.4 % RH

#### 7.6.2 Test Mode Description

11012 100111	10.2 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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.		
Final test	10	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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.		



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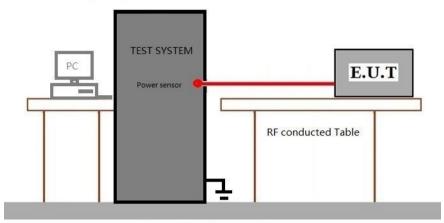


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 28 of 299

#### 7.6.3 Test Setup Diagram



Ground Reference Plane

#### 7.6.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 29 of 299

### 7.7 Peak Power spectrum density

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

Test Method: KDB 789033 D02 II F

#### Limit:

Frequency band(MHz)		Limit	
5150-5	250	≤17dBm in 1MHz for master device	
5150-5	0250	≤11dBm in 1MHz for client device	
5250-5	350	≤11dBm in 1MHz for client device	
5470-5	725	≤11dBm in 1MHz for client device	
5725-5	850	≤30dBm in 500 kHz	
Remark:		n power spectral density is measured as a conducted emission nection of a calibrated test instrument to the equipment under	

#### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

#### 7.7.2 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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Final test	10	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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.



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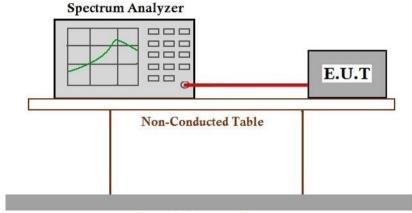
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> Page: 30 of 299

#### 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 31 of 299

#### 7.8 Radiated Emissions (Below 1GHz)

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

#### Limit:

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

#### 7.8.1 E.U.T. Operation

Operating Environment:

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

#### 7.8.2 Test Mode Description

7.0.2 Test wode Description						
Pre-scan / Final test	Mode Code	Description				
Pre-scan	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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.				
Pre-scan	10	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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.				
Final test	11	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate				



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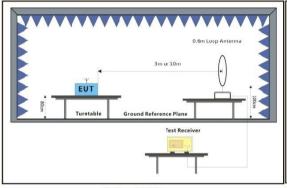
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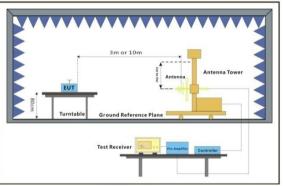
Report No.: SZCR240400113805

Page: 32 of 299

		@HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Pre-scan	12	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.

#### 7.8.3 Test Setup Diagram





30MHz-1GHz Below 30MHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400113805

> 33 of 299 Page:

#### 7.8.4 Measurement Procedure and Data

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

#### Remark:

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



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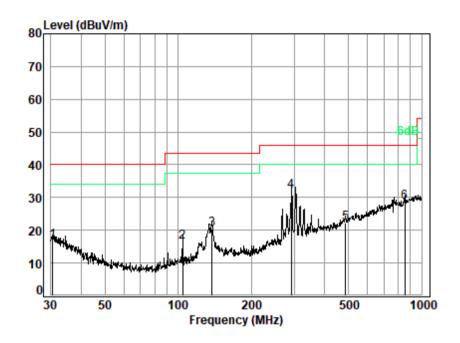


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 34 of 299

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



Site : chamber

Condition: 3m HORIZONTAL Job No. : 01138AT/01139AT

Test Mode: 11

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.53	20.95	0.65	27.80	22.89	16.69	40.00	-23.31	QP
2	104.17	12.22	1.21	27.59	30.72	16.56	43.50	-26.94	QP
3	137.90	11.62	1.39	27.47	34.89	20.43	43.50	-23.07	QP
4 q	292.06	17.20	2.14	26.92	39.59	32.01	46.00	-13.99	QP
5	487.32	22.86	2.85	27.73	24.29	22.27	46.00	-23.73	QP
6	854.02	26.92	3.97	27.35	25.10	28.64	46.00	-17.36	OP



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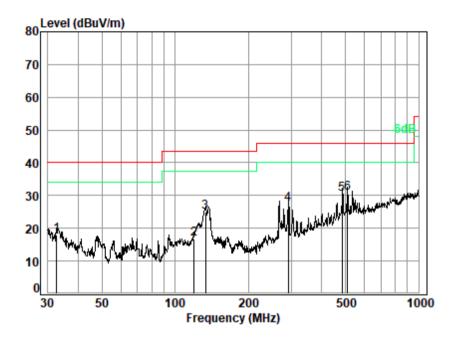


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 35 of 299

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



Site : chamber

Condition: 3m VERTICAL

Job No. : 01138AT/01139AT

Test Mode: 11

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.52	20.07	0.67	27.80	25.00	17.94	40.00	-22.06	QP
2	119.44	11.12	1.29	27.54	31.86	16.73	43.50	-26.77	QP
3	133.15	11.21	1.37	27.49	39.81	24.90	43.50	-18.60	QP
4	292.06	17.20	2.14	26.92	34.99	27.41	46.00	-18.59	QP
5	485.61	22.88	2.84	27.72	32.38	30.38	46.00	-15.62	QP
6 q	511.84	23.22	2.93	27.84	32.30	30.61	46.00	-15.39	OP .



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> Page: 36 of 299

### 7.9 Radiated Emissions (Above 1GHz)

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

KDB 789033 D02 II G Test Method:

Measurement Distance: 3m

#### Limit:

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

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

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



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Report No.: SZCR240400113805

Page: 37 of 299

#### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 21.8 °C Humidity: 52.4 % RH Atmospheric Pressure: 1020 mbar

#### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode	Description
Pre-scan	<b>Code</b> 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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Pre-scan	10	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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Final test	11	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Final test	12	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.



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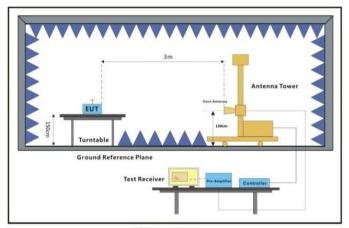


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 38 of 299

#### 7.9.3 Test Setup Diagram



Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400113805

> Page: 39 of 299

#### 7.9.4 Measurement Procedure and Data

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

#### Remark:

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



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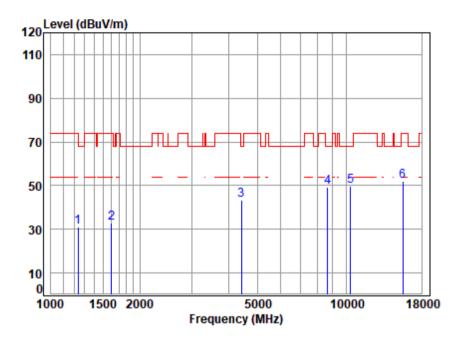


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 40 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

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

~ ~ ~		***							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	3.65	24.94	38.35	40.70	30.94	74.00	-43.06	peak
2	1601.804	4.20	26.78	38.40	40.29	32.87	74.00	-41.13	peak
3	4417.841	7.07	34.59	35.78	37.53	43.41	68.20	-24.79	peak
4	8638.399	11.29	36.90	37.24	38.31	49.26	68.20	-18.94	peak
5	p10360.000	12.73	37.10	37.54	37.62	49.91	68.20	-18.29	peak
6	15540.000	14.23	41.10	37.23	34.01	52.11	74.00	-21.89	peak



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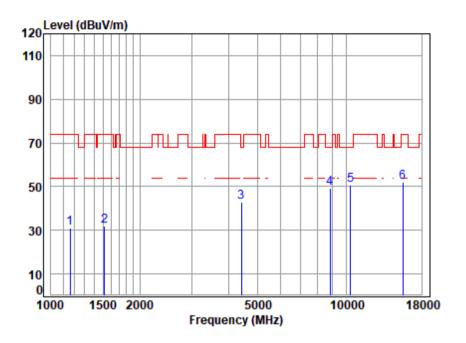


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 41 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1162.182	3.51	24.02	38.33	41.60	30.80	74.00	-43.20	peak	
2	1520.598	4.09	26.88	38.39	39.49	32.07	74.00	-41.93	peak	
3	4417.841	7.07	34.59	35.78	36.91	42.79	68.20	-25.41	peak	
4	8814.957	11.60	37.13	37.42	38.03	49.34	68.20	-18.86	peak	
5	p10360.000	12.73	37.10	37.54	38.53	50.82	68.20	-17.38	peak	
6	15540.000	14.23	41.10	37.23	34.03	52.13	74.00	-21.87	peak	



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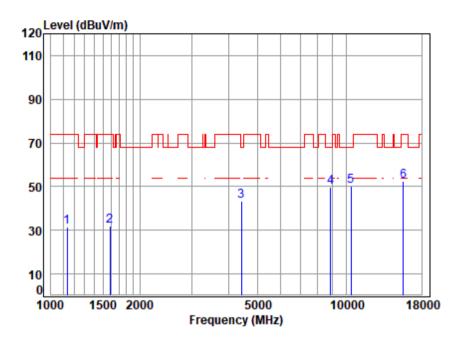


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 42 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5200 TX RSE Note : 5G WIFI 11A

000		****							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1135.617	3.46	23.84	38.33	42.33	31.30	74.00	-42.70	peak
2	1583.392	4.18	26.87	38.40	39.42	32.07	74.00	-41.93	peak
3	4417.841	7.07	34.59	35.78	37.25	43.13	68.20	-25.07	peak
4	8840.473	11.64	37.18	37.45	38.39	49.76	68.20	-18.44	peak
5	p10400.000	12.74	37.10	37.56	38.12	50.40	68.20	-17.80	peak
6	15600.000	14.25	41.10	37.26	34.42	52.51	74.00	-21.49	peak



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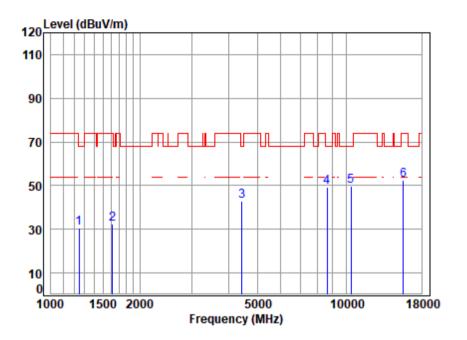


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 43 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

Mode : 5200 TX RSE Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1245.663	3.66	25.04	38.35	40.31	30.66	68.20	-37.54	peak	
2	1615.754	4.22	26.64	38.40	40.07	32.53	74.00	-41.47	peak	
3	4430.628	7.08	34.43	35.77	36.94	42.68	68.20	-25.52	peak	
4	8613.468	11.24	36.90	37.22	38.19	49.11	68.20	-19.09	peak	
5	p10400.000	12.74	37.10	37.56	37.49	49.77	68.20	-18.43	peak	
6	15600.000	14.25	41.10	37.26	34.50	52.59	74.00	-21.41	peak	



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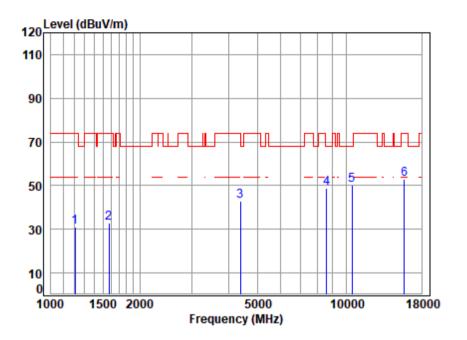


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 44 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

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

00		AATI T	114						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1206.682	3.59	24.49	38.34	41.43	31.17	74.00	-42.83	peak
2	1574.265	4.17	26.90	38.40	39.95	32.62	74.00	-41.38	peak
3	4392.376	7.05	34.74	35.80	36.82	42.81	74.00	-31.19	peak
4	8588.607	11.20	36.88	37.19	38.10	48.99	68.20	-19.21	peak
5	p10480.000	12.76	37.26	37.60	37.95	50.37	68.20	-17.83	peak
6	15720.000	14.29	41.22	37.31	34.63	52.83	74.00	-21.17	peak



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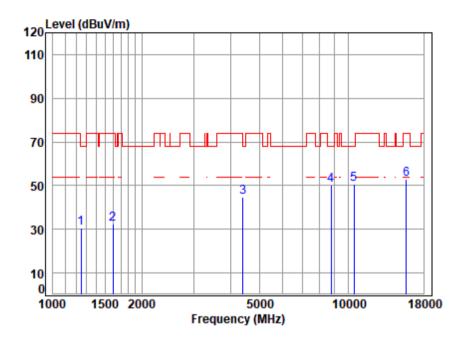


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 45 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1245.663	3.66	25.04	38.35	40.37	30.72	68.20	-37.48	peak	
2	1597.181	4.20	26.81	38.40	39.87	32.48	74.00	-41.52	peak	
3	4405.090	7.06	34.74	35.79	38.83	44.84	68.20	-23.36	peak	
4	8764.146	11.51	36.96	37.37	39.04	50.14	68.20	-18.06	peak	
5	p10480.000	12.76	37.26	37.60	38.06	50.48	68.20	-17.72	peak	
6	15720.000	14.29	41.22	37.31	34.85	53.05	74.00	-20.95	peak	



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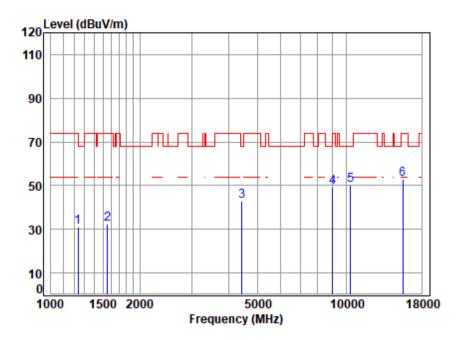


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 46 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT Mode : 5180 TX RSE

Note : 5G WIFI 11N20

~ ~ .		***	11.420						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	3.65	24.94	38.35	40.64	30.88	74.00	-43.12	peak
2	1556.169	4.14	26.98	38.40	39.89	32.61	74.00	-41.39	peak
3	4443.453	7.09	34.28	35.77	37.32	42.92	68.20	-25.28	peak
4	8995.123	11.91	36.91	37.61	38.07	49.28	68.20	-18.92	peak
5	p10360.000	12.73	37.10	37.54	37.94	50.23	68.20	-17.97	peak
6	15540.000	14.23	41.10	37.23	34.95	53.05	74.00	-20.95	peak



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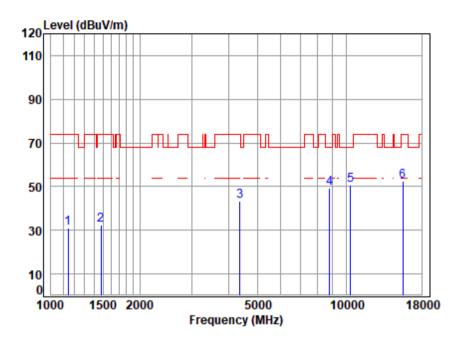


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 47 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1142.201	3.48	23.87	38.33	42.02	31.04	74.00	-42.96	peak
2	1477.276	4.03	26.16	38.38	40.69	32.50	74.00	-41.50	peak
3	4367.058	7.04	34.54	35.82	37.48	43.24	74.00	-30.76	peak
4	8789.516	11.55	37.06	37.40	37.92	49.13	68.20	-19.07	peak
5	p10360.000	12.73	37.10	37.54	38.18	50.47	68.20	-17.73	peak
6	15540.000	14.23	41.10	37.23	34.37	52.47	74.00	-21.53	peak



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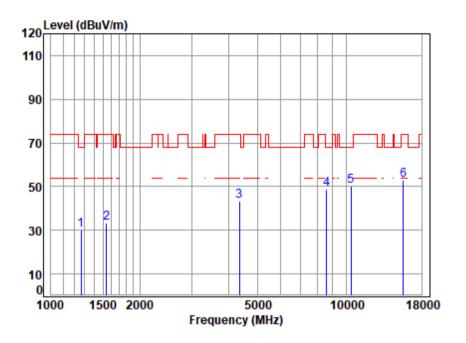


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 48 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT Mode : 5200 TX RSE

Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	3.69	25.02	38.35	39.85	30.21	68.20	-37.99	peak
2	1542.733	4.12	26.97	38.39	40.60	33.30	74.00	-40.70	peak
3	4354.454	7.03	34.44	35.83	37.55	43.19	74.00	-30.81	peak
4	8588.607	11.20	36.88	37.19	37.87	48.76	68.20	-19.44	peak
5	p10400.000	12.74	37.10	37.56	37.96	50.24	68.20	-17.96	peak
6	15600.000	14.25	41.10	37.26	34.99	53.08	74.00	-20.92	peak



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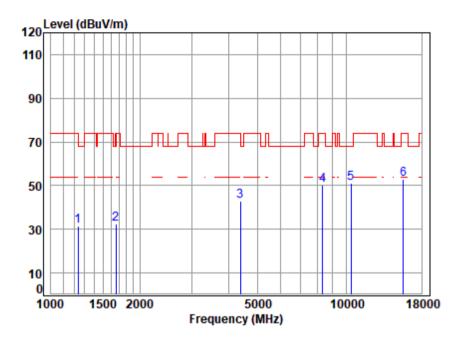


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 49 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

Mode : 5200 TX RSE Note : 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1234.909	3.64	24.89	38.35	41.11	31.29	74.00	-42.71	peak	
2	1663.137	4.28	26.27	38.41	40.19	32.33	74.00	-41.67	peak	
3	4392.376	7.05	34.74	35.80	36.85	42.84	74.00	-31.16	peak	
4	8319.836	10.71	36.70	36.91	39.55	50.05	74.00	-23.95	peak	
5	p10400.000	12.74	37.10	37.56	38.97	51.25	68.20	-16.95	peak	
6	15600.000	14.25	41.10	37.26	34.80	52.89	74.00	-21.11	peak	



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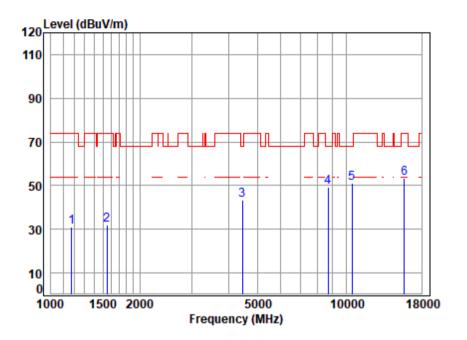


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 50 of 299

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



Site : chamber

Note

Condition: 3m HORIZONTAL : 01138AT/01139AT Mode : 5240 TX RSE

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1175.697	3.54	24.16	38.34	41.78	31.14	74.00	-42.86	peak
2	1547.199	4.13	26.99	38.39	39.21	31.94	74.00	-42.06	peak
3	4456.315	7.09	34.12	35.76	37.69	43.14	68.20	-25.06	peak
4	8688.480	11.38	36.90	37.30	38.33	49.31	68.20	-18.89	peak
5	p10480.000	12.76	37.26	37.60	38.84	51.26	68.20	-16.94	peak
6	15720.000	14.29	41.22	37.31	34.96	53.16	74.00	-20.84	peak



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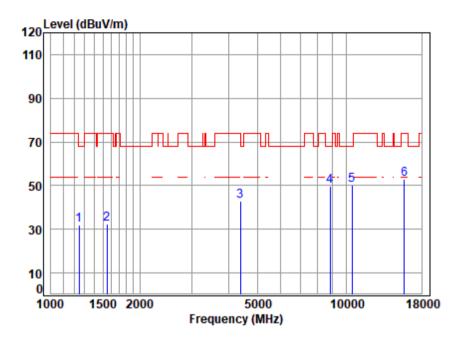


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 51 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.66	25.04	38.35	41.65	32.00	68.20	-36.20	peak
2	1547.199	4.13	26.99	38.39	39.81	32.54	74.00	-41.46	peak
3	4392.376	7.05	34.74	35.80	37.00	42.99	74.00	-31.01	peak
4	8814.957	11.60	37.13	37.42	38.38	49.69	68.20	-18.51	peak
5	p10480.000	12.76	37.26	37.60	37.83	50.25	68.20	-17.95	peak
6	15720.000	14.29	41.22	37.31	34.67	52.87	74.00	-21.13	peak



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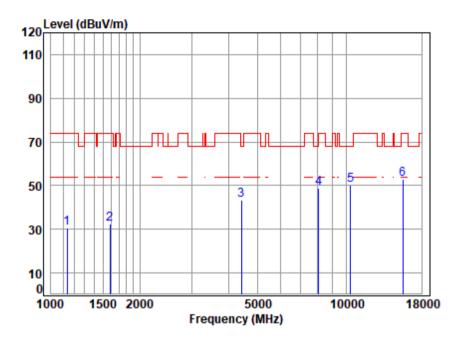


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 52 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT Mode : 5180 TX RSE

Note : 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1135.617	3.46	23.84	38.33	41.69	30.66	74.00	-43.34	peak
2	1587.975	4.18	26.85	38.40	39.84	32.47	74.00	-41.53	peak
3	4417.841	7.07	34.59	35.78	37.48	43.36	68.20	-24.84	peak
4	8059.475	10.21	36.42	36.63	38.90	48.90	74.00	-25.10	peak
5	p10360.000	12.73	37.10	37.54	38.10	50.39	68.20	-17.81	peak
6	15540.000	14.23	41.10	37.23	34.78	52.88	74.00	-21.12	peak



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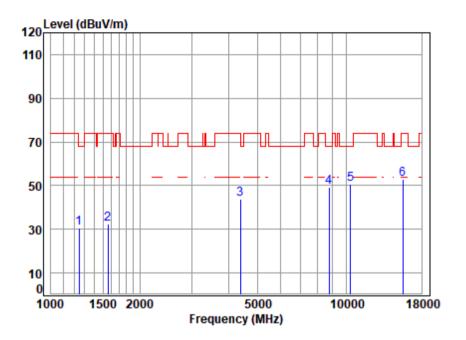


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 53 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

Mode : 5180 TX RSE

Note : 5G WIFI 11AC20

~ ~ .		***	TIMELU						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.66	25.04	38.35	40.37	30.72	68.20	-37.48	peak
2	1560.673	4.15	26.96	38.40	39.61	32.32	74.00	-41.68	peak
3	4392.376	7.05	34.74	35.80	37.64	43.63	74.00	-30.37	peak
4	8764.146	11.51	36.96	37.37	38.28	49.38	68.20	-18.82	peak
5	p10360.000	12.73	37.10	37.54	38.54	50.83	68.20	-17.37	peak
6	15540.000	14.23	41.10	37.23	34.88	52.98	74.00	-21.02	peak



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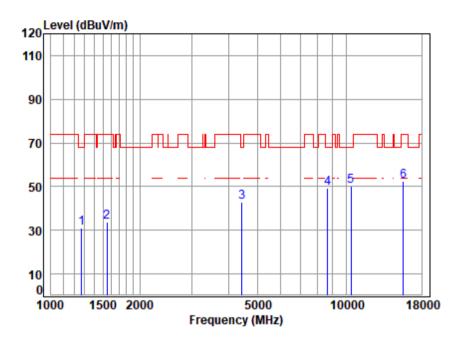


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 54 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT Mode : 5200 TX RSE

Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1271.123	3.71	24.97	38.35	40.70	31.03	68.20	-37.17	peak
2	1547.199	4.13	26.99	38.39	41.01	33.74	74.00	-40.26	peak
3	4430.628	7.08	34.43	35.77	37.27	43.01	68.20	-25.19	peak
4	8638.399	11.29	36.90	37.24	38.32	49.27	68.20	-18.93	peak
5	p10400.000	12.74	37.10	37.56	37.90	50.18	68.20	-18.02	peak
6	15600.000	14.25	41.10	37.26	34.39	52.48	74.00	-21.52	peak



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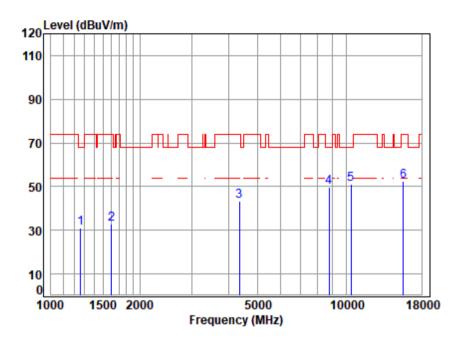


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 55 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

Mode : 5200 TX RSE Note : 5G WIFI 11AC20

Read Limit Over	
	Remark
dRu\/ dRu\//m dRu\//m dRu\//m	
dBuV dBuV/m dBuV/m dB	
abay abay/iii abay/iii at	3
40.47 30.85 68.20 -37.35	peak
40.26 32.81 74.00 -41.19	) peak
37.50 43.14 74.00 -30.86	peak
38.55 49.57 68.20 -18.63	) peak
38.88 51.16 68.20 -17.04	l peak
	peak
4 4 3 3 3	40.26 32.81 74.00 -41.19 37.50 43.14 74.00 -30.86 38.55 49.57 68.20 -18.63



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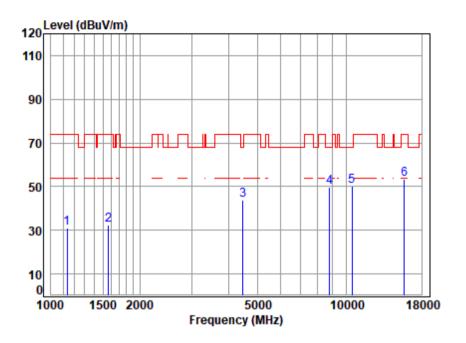


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 56 of 299

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



Site : chamber

Note

1

2

Condition: 3m HORIZONTAL : 01138AT/01139AT : 5240 TX RSE Mode

: 5G WIFI 11AC20

14.29

41.22 37.31

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1135.617 3.46 38.33 41.84 30.81 74.00 -43.19 peak 23.84 1569.721 4.16 26.92 38.40 39.61 32.29 74.00 -41.71 peak 7.10 33.97 4469.214 35.75 38.26 43.58 68.20 -24.62 peak 8789.516 11.55 37.06 37.40 38.58 49.79 68.20 -18.41 peak 5 p10480.000 12.76 37.26 37.60 37.89 50.31 68.20 -17.89 peak

34.97



15720.000

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53.17 74.00 -20.83 peak

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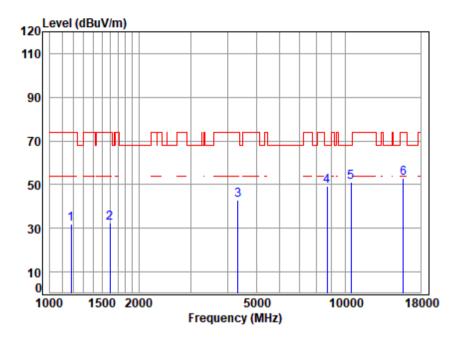


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 57 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

Mode : 5240 TX RSE

Note : 5G WIFI 11AC20

00		****	TIMOZO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1179.100	3.54	24.19	38.34	42.36	31.75	74.00	-42.25	peak
2	1597.181	4.20	26.81	38.40	39.76	32.37	74.00	-41.63	peak
3	4341.886	7.02	34.34	35.84	37.39	42.91	74.00	-31.09	peak
4	8688.480	11.38	36.90	37.30	38.48	49.46	68.20	-18.74	peak
5	p10480.000	12.76	37.26	37.60	38.56	50.98	68.20	-17.22	peak
6	15720.000	14.29	41.22	37.31	34.87	53.07	74.00	-20.93	peak



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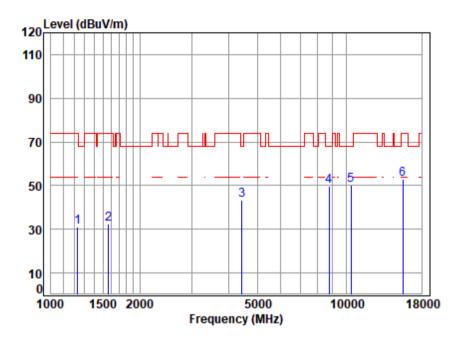


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 58 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT Mode : 5190 TX RSE

Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	3.64	24.84	38.35	40.97	31.10	74.00	-42.90	peak
2	1565.191	4.15	26.94	38.40	39.49	32.18	74.00	-41.82	peak
3	4430.628	7.08	34.43	35.77	37.52	43.26	68.20	-24.94	peak
4	8764.146	11.51	36.96	37.37	38.58	49.68	68.20	-18.52	peak
5	p10380.000	12.74	37.10	37.55	38.11	50.40	68.20	-17.80	peak
6	15570.000	14.24	41.10	37.25	34.82	52.91	74.00	-21.09	peak



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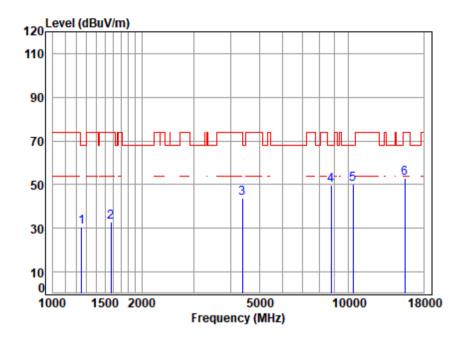


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 59 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.67	25.08	38.35	40.07	30.47	68.20	-37.73	peak
2	1574.265	4.17	26.90	38.40	40.35	33.02	74.00	-40.98	peak
3	4392.376	7.05	34.74	35.80	37.95	43.94	74.00	-30.06	peak
4	8764.146	11.51	36.96	37.37	38.54	49.64	68.20	-18.56	peak
5	p10380.000	12.74	37.10	37.55	38.01	50.30	68.20	-17.90	peak
6	15570.000	14.24	41.10	37.25	34.80	52.89	74.00	-21.11	peak



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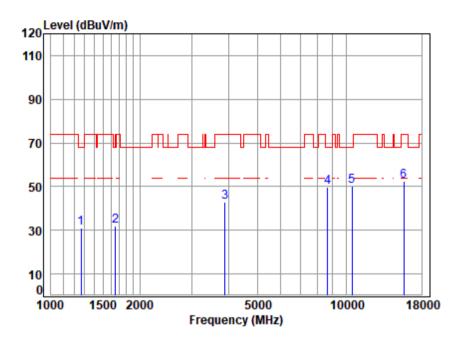


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 60 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT Mode : 5230 TX RSE

Note : 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	3.69	25.02	38.35	40.44	30.80	68.20	-37.40	peak
2	1653.550	4.27	26.29	38.41	39.91	32.06	68.20	-36.14	peak
3	3890.255	6.66	33.66	36.10	38.62	42.84	74.00	-31.16	peak
4	8663.404	11.33	36.90	37.27	38.55	49.51	68.20	-18.69	peak
5	p10460.000	12.76	37.22	37.59	37.99	50.38	68.20	-17.82	peak
6	15690.000	14.28	41.19	37.30	34.40	52.57	74.00	-21.43	peak



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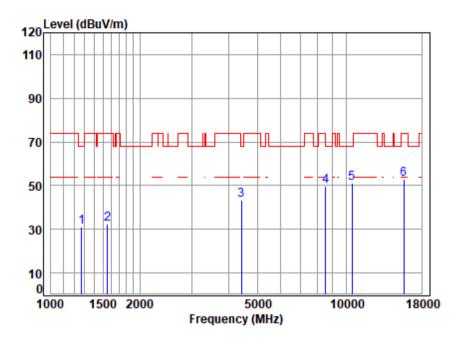


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 61 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

		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	1271.123	3.71	24.97	38.35	40.75	31.08	68.20	-37.12	peak
2	1556.169	4.14	26.98	38.40	39.49	32.21	74.00	-41.79	peak
3	4417.841	7.07	34.59	35.78	37.37	43.25	68.20	-24.95	peak
4	8514.456	11.06	36.73	37.12	38.86	49.53	68.20	-18.67	peak
5	p10460.000	12.76	37.22	37.59	38.71	51.10	68.20	-17.10	peak
6	15690.000	14.28	41.19	37.30	34.97	53.14	74.00	-20.86	peak



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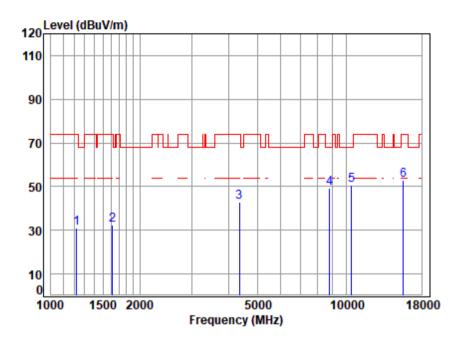


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 62 of 299

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



Site : chamber

Note

Condition: 3m HORIZONTAL : 01138AT/01139AT 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	
1	1220.714	3.62	24.69	38.34	41.18	31.15	74.00	-42.85	peak
2	1615.754	4.22	26.64	38.40	40.15	32.61	74.00	-41.39	peak
3	4354.454	7.03	34.44	35.83	37.17	42.81	74.00	-31.19	peak
4	8789.516	11.55	37.06	37.40	38.05	49.26	68.20	-18.94	peak
5	p10420.000	12.75	37.14	37.57	38.43	50.75	68.20	-17.45	peak
6	15630.000	14.26	41.13	37.27	35.01	53.13	74.00	-20.87	peak



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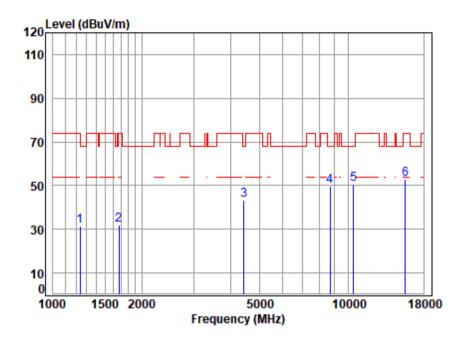


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 63 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

Mode : 5210 TX RSE Note : 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	3.65	24.94	38.35	41.02	31.26	74.00	-42.74	peak
2	1672.779	4.30	26.25	38.41	39.69	31.83	74.00	-42.17	peak
3	4443.453	7.09	34.28	35.77	37.76	43.36	68.20	-24.84	peak
4	8688.480	11.38	36.90	37.30	38.63	49.61	68.20	-18.59	peak
5	p10420.000	12.75	37.14	37.57	38.32	50.64	68.20	-17.56	peak
6	15630.000	14.26	41.13	37.27	34.79	52.91	74.00	-21.09	peak



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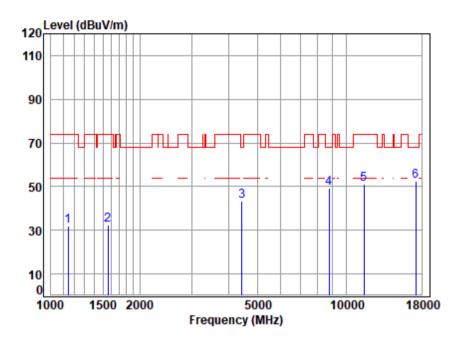


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 64 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

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

000		****							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1142.201	3.48	23.87	38.33	43.09	32.11	74.00	-41.89	peak
2	1560.673	4.15	26.96	38.40	39.62	32.33	74.00	-41.67	peak
3	4443.453	7.09	34.28	35.77	37.66	43.26	68.20	-24.94	peak
4	8738.852	11.47	36.90	37.35	38.40	49.42	68.20	-18.78	peak
5	11490.000	13.00	37.79	37.69	37.95	51.05	74.00	-22.95	peak
6	p17235.000	14.70	43.03	37.55	32.18	52.36	68.20	-15.84	peak



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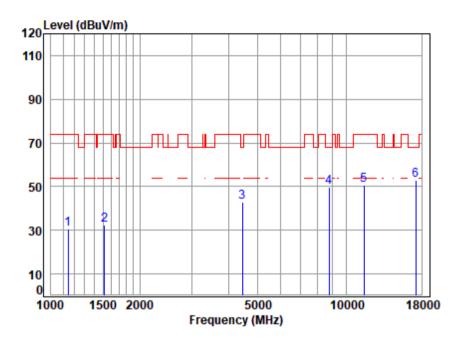


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 65 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1145.507	3.48	23.88	38.33	41.63	30.66	74.00	-43.34	peak	
2	1516.210	4.08	26.86	38.39	39.77	32.32	74.00	-41.68	peak	
3	4456.315	7.09	34.12	35.76	37.49	42.94	68.20	-25.26	peak	
4	8764.146	11.51	36.96	37.37	38.72	49.82	68.20	-18.38	peak	
5	11490.000	13.00	37.79	37.69	37.66	50.76	74.00	-23.24	peak	
6	p17235.000	14.70	43.03	37.55	32.89	53.07	68.20	-15.13	peak	



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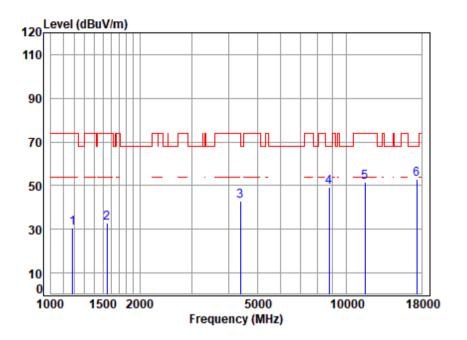


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 66 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT : 5785 TX RSE

Mode Note : 5G WIFI 11A

000		****							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1185.936	3.56	24.26	38.34	41.06	30.54	74.00	-43.46	peak
2	1547.199	4.13	26.99	38.39	40.09	32.82	74.00	-41.18	peak
3	4379.699	7.04	34.64	35.81	36.99	42.86	74.00	-31.14	peak
4	8738.852	11.47	36.90	37.35	38.46	49.48	68.20	-18.72	peak
5	11570.000	13.01	37.73	37.67	38.42	51.49	74.00	-22.51	peak
	p17355.000								



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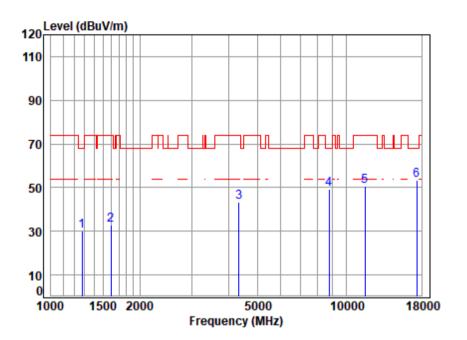


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 67 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1274.802	3.71	24.95	38.35	40.02	30.33	68.20	-37.87	peak	
2	1597.181	4.20	26.81	38.40	40.02	32.63	74.00	-41.37	peak	
3	4341.886	7.02	34.34	35.84	37.99	43.51	74.00	-30.49	peak	
4	8738.852	11.47	36.90	37.35	38.21	49.23	68.20	-18.97	peak	
5	11570.000	13.01	37.73	37.67	37.74	50.81	74.00	-23.19	peak	
6	p17355.000	14.77	43.26	37.56	32.89	53.36	68.20	-14.84	peak	



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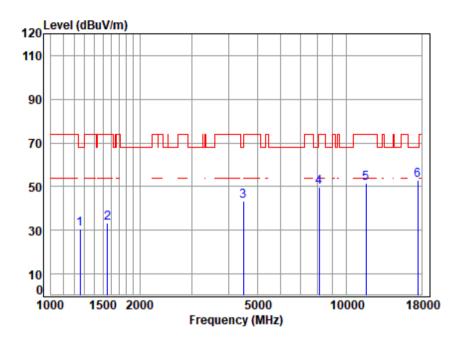


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 68 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT : 5825 TX RSE Mode

Note : 5G WIFI 11A

~ ~ ~		***							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.68	25.06	38.35	40.34	30.73	68.20	-37.47	peak
2	1551.677	4.13	26.99	38.40	40.67	33.39	74.00	-40.61	peak
3	4482.150	7.11	33.81	35.74	37.96	43.14	68.20	-25.06	peak
4	8106.200	10.30	36.50	36.68	39.40	49.52	74.00	-24.48	peak
5	11650.000	13.03	37.80	37.65	38.48	51.66	74.00	-22.34	peak
6	p17475.000	14.84	43.40	37.58	32.27	52.93	68.20	-15.27	peak



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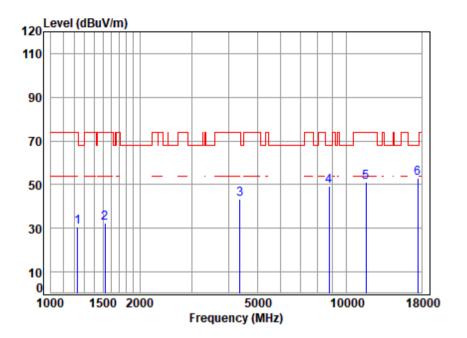


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 69 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

~ ~ ~		***							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1231.345	3.64	24.84	38.35	40.64	30.77	74.00	-43.23	peak
2	1525.000	4.10	26.90	38.39	39.89	32.50	74.00	-41.50	peak
3	4367.058	7.04	34.54	35.82	37.40	43.16	74.00	-30.84	peak
4	8764.146	11.51	36.96	37.37	38.21	49.31	68.20	-18.89	peak
5	11650.000	13.03	37.80	37.65	38.14	51.32	74.00	-22.68	peak
	p17475.000								



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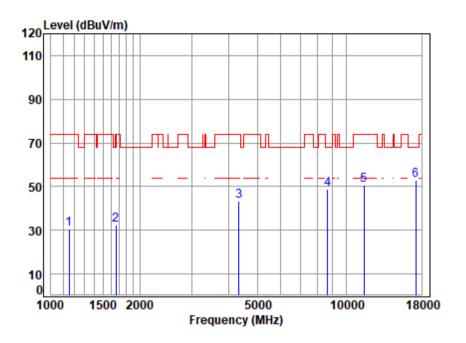


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 70 of 299

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



Site : chamber

Note

Condition: 3m HORIZONTAL : 01138AT/01139AT : 5745 TX RSE Mode

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1152.148	3.49	23.92	38.33	41.37	30.45	74.00	-43.55	peak
2	1658.337	4.28	26.28	38.41	40.33	32.48	68.20	-35.72	peak
3	4329.354	7.01	34.23	35.85	38.02	43.41	74.00	-30.59	peak
4	8663.404	11.33	36.90	37.27	38.05	49.01	68.20	-19.19	peak
5	11490.000	13.00	37.79	37.69	37.58	50.68	74.00	-23.32	peak
6	p17235.000	14.70	43.03	37.55	32.63	52.81	68.20	-15.39	peak



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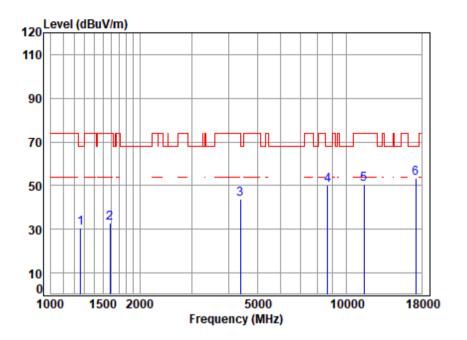


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 71 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

_									
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	40.33	30.71	68.20	-37.49	peak
2	1583.392	4.18	26.87	38.40	40.07	32.72	74.00	-41.28	peak
3	4392.376	7.05	34.74	35.80	37.98	43.97	74.00	-30.03	peak
4	8663.404	11.33	36.90	37.27	39.23	50.19	68.20	-18.01	peak
5	11490.000	13.00	37.79	37.69	37.54	50.64	74.00	-23.36	peak
6	p17235.000	14.70	43.03	37.55	33.12	53.30	68.20	-14.90	peak



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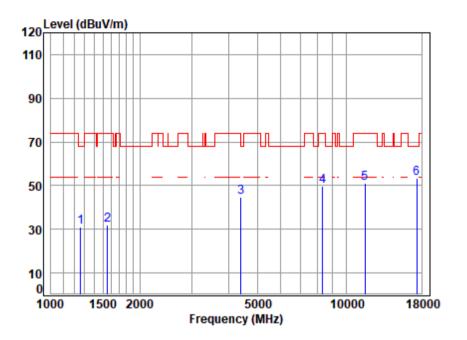


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 72 of 299

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



Site : chamber

Note

Condition: 3m HORIZONTAL : 01138AT/01139AT Mode : 5785 TX RSE

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.69	25.04	38.35	40.46	30.84	68.20	-37.36	peak
2	1551.677	4.13	26.99	38.40	39.37	32.09	74.00	-41.91	peak
3	4405.090	7.06	34.74	35.79	38.63	44.64	68.20	-23.56	peak
4	8319.836								•
5	11570.000	13.01	37.73	37.67	38.12	51.19	74.00	-22.81	peak
	p17355.000								•



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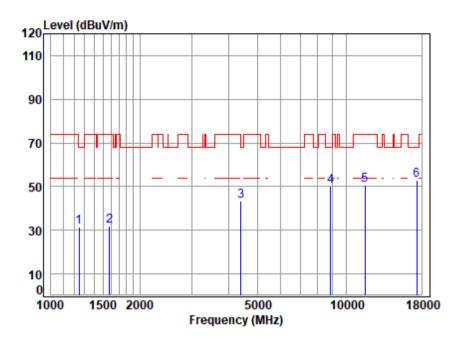


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 73 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.66	25.04	38.35	41.10	31.45	68.20	-36.75	peak
2	1578.822	4.17	26.88	38.40	39.17	31.82	74.00	-42.18	peak
3	4405.090	7.06	34.74	35.79	37.14	43.15	68.20	-25.05	peak
4	8866.062	11.69	37.20	37.48	38.62	50.03	68.20	-18.17	peak
5	11570.000	13.01	37.73	37.67	37.38	50.45	74.00	-23.55	peak
6	p17355.000	14.77	43.26	37.56	32.66	53.13	68.20	-15.07	peak



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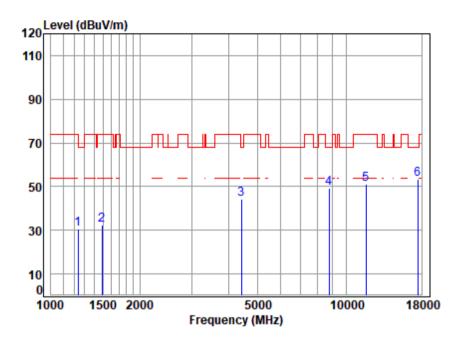


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 74 of 299

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



Site : chamber

Note

Condition: 3m HORIZONTAL : 01138AT/01139AT Mode : 5825 TX RSE

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1238.483	3.65	24.94	38.35	40.54	30.78	74.00	-43.22	peak
2	1490.142	4.05	26.52	38.39	40.34	32.52	74.00	-41.48	peak
3	4417.841	7.07	34.59	35.78	38.28	44.16	68.20	-24.04	peak
4	8738.852	11.47	36.90	37.35	38.41	49.43	68.20	-18.77	peak
5	11650.000	13.03	37.80	37.65	37.93	51.11	74.00	-22.89	peak
	p17475.000								•



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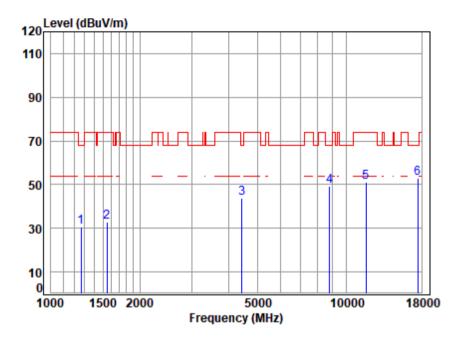


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 75 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	3.69	25.02	38.35	40.39	30.75	68.20	-37.45	peak
2	1547.199	4.13	26.99	38.39	40.16	32.89	74.00	-41.11	peak
3	4443.453	7.09	34.28	35.77	38.24	43.84	68.20	-24.36	peak
4	8789.516	11.55	37.06	37.40	38.15	49.36	68.20	-18.84	peak
5	11650.000	13.03	37.80	37.65	38.02	51.20	74.00	-22.80	peak
6	p17475.000	14.84	43.40	37.58	32.07	52.73	68.20	-15.47	peak



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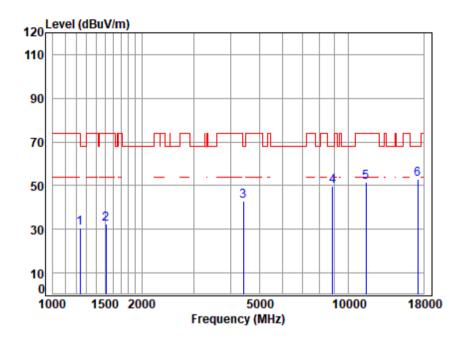


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 76 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT Mode : 5745 TX RSE

Note : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	3.64	24.89	38.35	40.50	30.68	74.00	-43.32	peak
2	1511.833	4.08	26.85	38.39	39.76	32.30	74.00	-41.70	peak
3	4417.841	7.07	34.59	35.78	37.06	42.94	68.20	-25.26	peak
4	8866.062	11.69	37.20	37.48	38.29	49.70	68.20	-18.50	peak
5	11490.000	13.00	37.79	37.69	38.34	51.44	74.00	-22.56	peak
6	p17235.000	14.70	43.03	37.55	32.71	52.89	68.20	-15.31	peak



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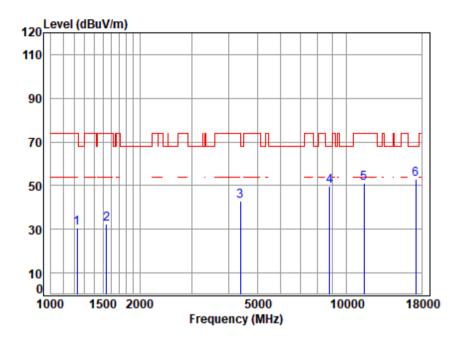


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 77 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

	<b>5</b>			Preamp					Damada
	Freq	Loss	Factor	Factor	rever	revel	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	3.63	24.79	38.34	40.52	30.60	74.00	-43.40	peak
2	1542.733	4.12	26.97	38.39	39.47	32.17	74.00	-41.83	peak
3	4392.376	7.05	34.74	35.80	37.06	43.05	74.00	-30.95	peak
4	8789.516	11.55	37.06	37.40	38.75	49.96	68.20	-18.24	peak
5	11490.000	13.00	37.79	37.69	38.21	51.31	74.00	-22.69	peak
6	p17235.000	14.70	43.03	37.55	32.83	53.01	68.20	-15.19	peak



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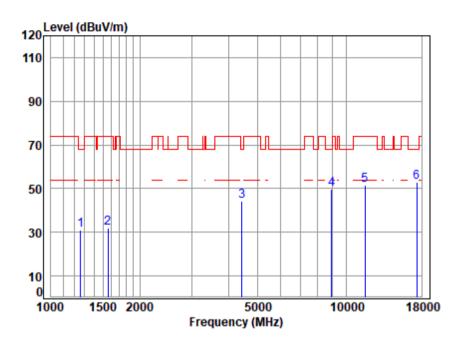


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 78 of 299

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



Site : chamber

Note

1

2

3

Condition: 3m HORIZONTAL : 01138AT/01139AT : 5785 TX RSE Mode

: 5G WIFI 11AC20

14.77

43.26 37.56

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1260.149 25.04 38.35 40.64 31.02 68.20 -37.18 peak 3.69 1560.673 4.15 26.96 38.40 39.19 31.90 74.00 -42.10 peak 7.09 4443.453 34.28 35.77 38.53 44.13 68.20 -24.07 peak 8917.462 11.78 37.13 37.53 38.19 49.57 68.20 -18.63 peak 11570.000 37.73 37.67 38.51 51.58 74.00 -22.42 peak 13.01



6 p17355.000

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32.65 53.12 68.20 -15.08 peak

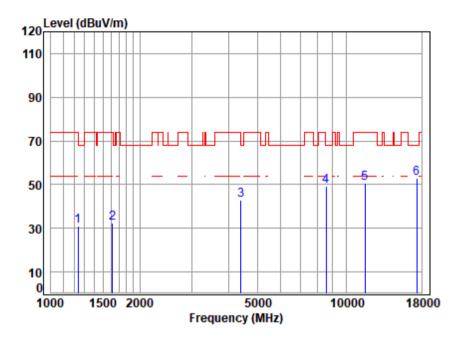


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 79 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

Mode : 5785 TX RSE Note : 5G WIFI 11AC20

Ant Preamn Limit Road Oven

		Capte	AIIC	rreamp	illeau		LIMIT	over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1234.909	3.64	24.89	38.35	41.06	31.24	74.00	-42.76	peak
2	1615.754	4.22	26.64	38.40	39.80	32.26	74.00	-41.74	peak
3	4405.090	7.06	34.74	35.79	37.01	43.02	68.20	-25.18	peak
4	8563.818	11.15	36.83	37.17	38.44	49.25	68.20	-18.95	peak
5	11570.000	13.01	37.73	37.67	37.55	50.62	74.00	-23.38	peak
6	p17355.000	14.77	43.26	37.56	32.49	52.96	68.20	-15.24	peak



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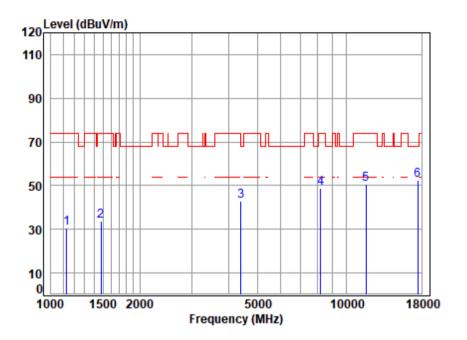


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 80 of 299

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



Site : chamber

Note

1

2

3

4

Condition: 3m HORIZONTAL : 01138AT/01139AT : 5825 TX RSE Mode

: 5G WIFI 11AC20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1132.340 3.46 38.33 41.54 30.50 74.00 -43.50 peak 23.83 1477.276 4.03 26.16 38.38 41.79 33.60 74.00 -40.40 peak 7.06 4405.090 34.74 35.79 36.96 42.97 68.20 -25.23 peak 8200.463 10.48 36.60 36.78 38.62 48.92 74.00 -25.08 peak 13.03 37.80 37.65 37.46 50.64 74.00 -23.36 peak 11650.000 31.91 52.57 68.20 -15.63 peak 6 p17475.000 14.84 43.40 37.58



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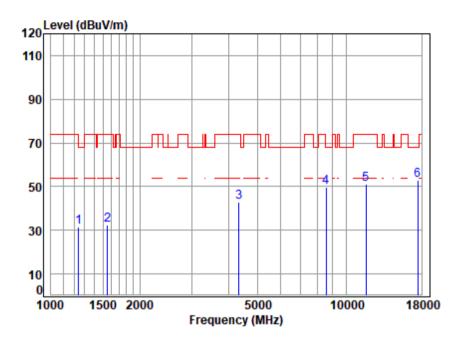


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 81 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

~ ~ ~		****	TIMOLO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	3.66	24.99	38.35	41.08	31.38	68.20	-36.82	peak
2	1551.677	4.13	26.99	38.40	39.49	32.21	74.00	-41.79	peak
3	4341.886	7.02	34.34	35.84	37.29	42.81	74.00	-31.19	peak
4	8563.818	11.15	36.83	37.17	38.74	49.55	68.20	-18.65	peak
5	11650.000	13.03	37.80	37.65	37.90	51.08	74.00	-22.92	peak
6	p17475.000	14.84	43.40	37.58	32.37	53.03	68.20	-15.17	peak



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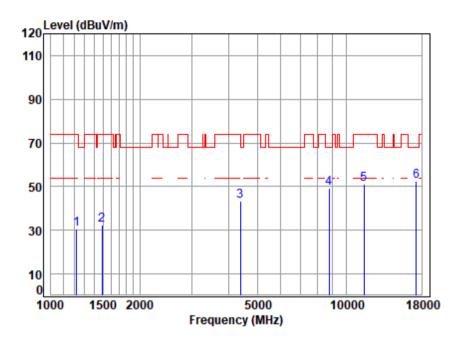


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 82 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT Mode : 5755 TX RSE

Note : 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	3.62	24.74	38.34	40.50	30.52	74.00	-43.48	peak
2	1490.142	4.05	26.52	38.39	40.08	32.26	74.00	-41.74	peak
3	4379.699	7.04	34.64	35.81	37.60	43.47	74.00	-30.53	peak
4	8738.852	11.47	36.90	37.35	38.41	49.43	68.20	-18.77	peak
5	11510.000	13.00	37.79	37.69	37.90	51.00	74.00	-23.00	peak
6	p17265.000	14.72	43.06	37.55	32.46	52.69	68.20	-15.51	peak



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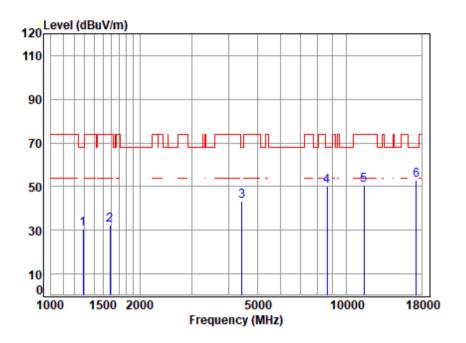


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 83 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

Cable Limit Ant Preamp Read Over

		CUDIC	7.11.0	· · camp	III GG			0.00	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1285.904	3.73	24.88	38.35	40.53	30.79	68.20	-37.41	peak
2	1583.392	4.18	26.87	38.40	39.89	32.54	74.00	-41.46	peak
3	4430.628	7.08	34.43	35.77	37.57	43.31	68.20	-24.89	peak
4	8613.468	11.24	36.90	37.22	39.19	50.11	68.20	-18.09	peak
5	11510.000	13.00	37.79	37.69	37.57	50.67	74.00	-23.33	peak
6	p17265.000	14.72	43.06	37.55	32.84	53.07	68.20	-15.13	peak



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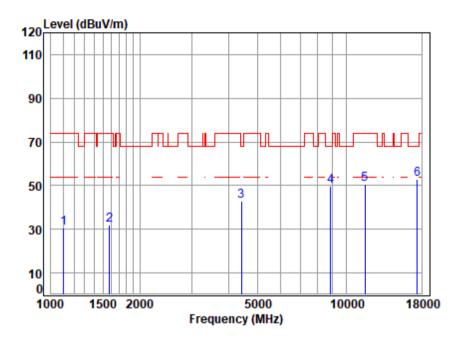


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 84 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT Mode : 5795 TX RSE

Note : 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	d Bu V/m	dBuV/m	dB	
1	1106.457	3.41	23.73	38.32	41.79	30.61	74.00	-43.39	peak
2	1578.822	4.17	26.88	38.40	39.34	31.99	74.00	-42.01	peak
3	4417.841	7.07	34.59	35.78	37.18	43.06	68.20	-25.14	peak
4	8866.062	11.69	37.20	37.48	38.17	49.58	68.20	-18.62	peak
5	11590.000	13.01	37.71	37.67	37.41	50.46	74.00	-23.54	peak
6	p17385.000	14.79	43.35	37.57	32.16	52.73	68.20	-15.47	peak



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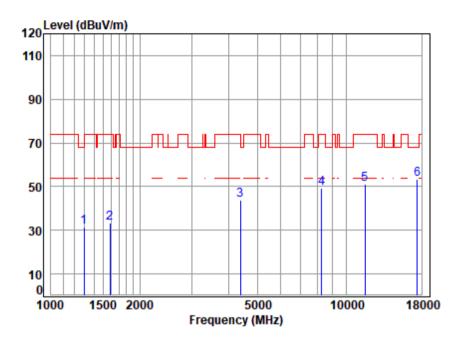


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 85 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

Mode : 5795 TX RSE

Note : 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1293.359	3.74	24.84	38.36	41.33	31.55	68.20	-36.65	peak
2	1587.975	4.18	26.85	38.40	40.65	33.28	74.00	-40.72	peak
3	4392.376	7.05	34.74	35.80	37.59	43.58	74.00	-30.42	peak
4	8271.880	10.62	36.70	36.86	39.00	49.46	74.00	-24.54	peak
5	11590.000	13.01	37.71	37.67	38.09	51.14	74.00	-22.86	peak
6	p17385.000	14.79	43.35	37.57	32.75	53.32	68.20	-14.88	peak



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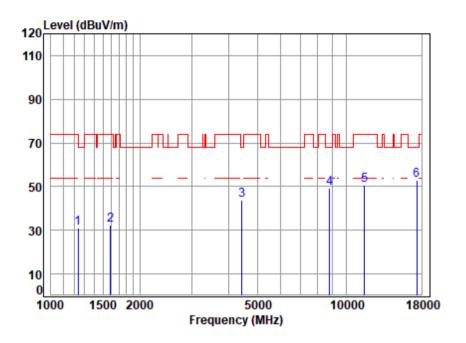


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 86 of 299

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



Site : chamber

Note

Condition: 3m HORIZONTAL : 01138AT/01139AT : 5775 TX RSE Mode

: 5G WIFI 11AC80

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m 1238.483 40.98 31.22 74.00 -42.78 peak 1 3.65 24.94 38.35 1592.571 4.19 26.83 38.40 39.74 32.36 74.00 -41.64 peak 2 7.09 3 4443.453 34.28 35.77 38.03 43.63 68.20 -24.57 peak 8789.516 11.55 37.06 37.40 38.12 49.33 68.20 -18.87 peak 11550.000 37.75 37.68 37.74 50.82 74.00 -23.18 peak 13.01 6 p17325.000 14.76 43.17 37.56 32.74 53.11 68.20 -15.09 peak



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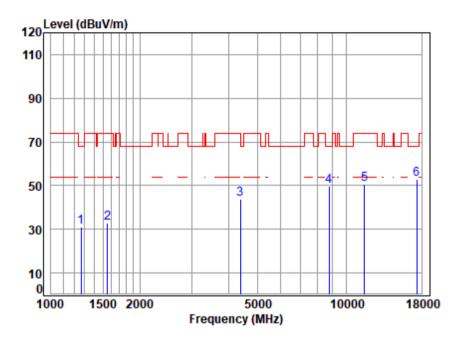


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 87 of 299

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



Site : chamber

Condition: 3m VERTICAL

: 01138AT/01139AT

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

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1263.796	3.69	25.02	38.35	40.67	31.03	68.20	-37.17	peak
2	1556.169	4.14	26.98	38.40	40.06	32.78	74.00	-41.22	peak
3	4379.699	7.04	34.64	35.81	37.77	43.64	74.00	-30.36	peak
4	8764.146	11.51	36.96	37.37	38.61	49.71	68.20	-18.49	peak
5	11550.000	13.01	37.75	37.68	37.75	50.83	74.00	-23.17	peak
6	p17325.000	14.76	43.17	37.56	32.38	52.75	68.20	-15.45	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 88 of 299

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

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

Test Method: KDB 789033 D02 II G

Measurement Distance: 3m

#### Limit:

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

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

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

#### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 52.3 % RH Atmospheric Pressure: 1020 mbar Humidity:



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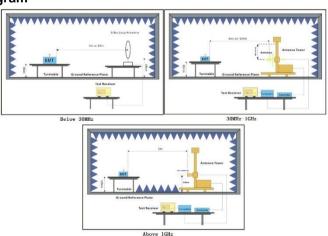
Report No.: SZCR240400113805

Page: 89 of 299

### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Pre-scan	10	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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Final test	11	Charge + TX mode (U-NII-1)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.
Final test	12	Charge + TX mode (U-NII-3)_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.

### 7.10.3 Test Setup Diagram



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400113805

> 90 of 299 Page:

#### 7.10.4 Measurement Procedure and Data

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

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



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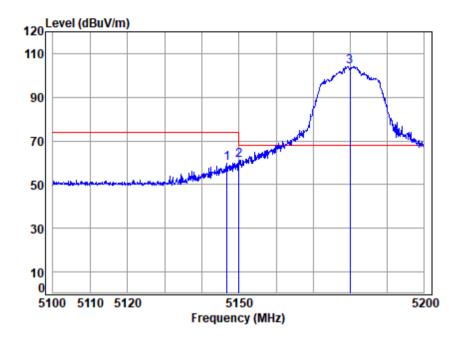


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 91 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5146.758								•
2	5149.980	7.55	33.90	35.31	55.23	61.37	74.00	-12.63	peak
3 n	5180.000	7.57	33.96	35.29	98.02	104.26	68.20	36.06	neak



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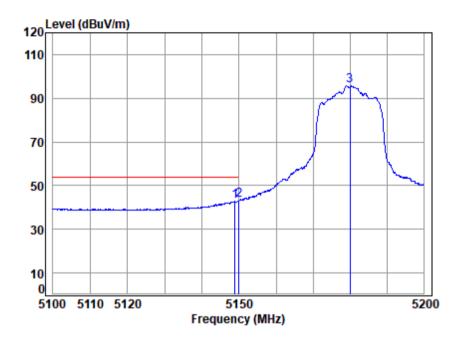


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 92 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5180 Band edge

: 5G WIFI 11A

		Freq			Preamp Factor					Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
		5148.857								_	
2	q	5149.980	7.55	33.90	35.31	37.36	43.50	54.00	-10.50	Average	
3		5180.000	7.57	33.96	35.29	89.75	95.99			Average	



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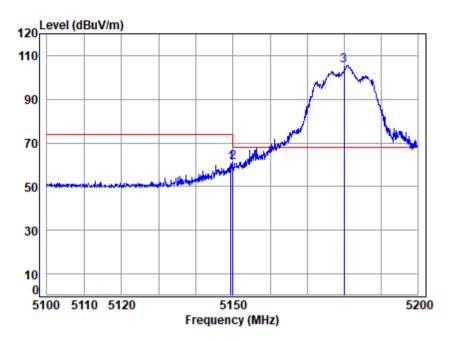


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 93 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	5149.357	7.55	33.90	35.31	54.34	60.48	74.00	-13.52	Peak	
2	5149.980	7.55	33.90	35.31	55.04	61.18	74.00	-12.82	Peak	
3	n 5180,000	7.57	33.96	35.29	99.30	105.54	68.20	37.34	Peak	



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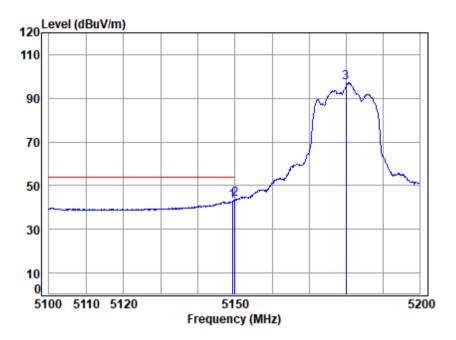


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 94 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.257	7.55	33.90	35.31	36.81	42.95	54.00	-11.05	Average
2 q	5149.980	7.55	33.90	35.31	37.87	44.01	54.00	-9.99	Average
3	5180.000	7.57	33.96	35.29	90.72	96.96			Average



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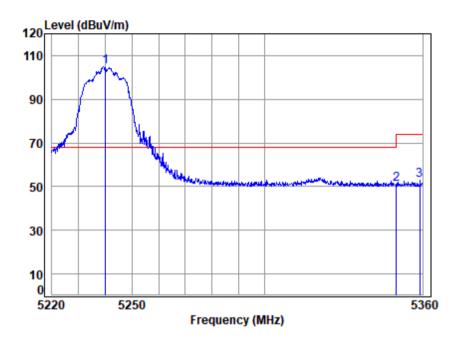


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 95 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5240 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5240.000	7.62	34.08	35.26	98.52	104.96	68.20	36.76	peak
2	5350.020	7.70	34.40	35.21	44.28	51.17	74.00	-22.83	peak
3	5359.007	7.71	34.44	35.20	46.06	53.01	74.00	-20.99	peak



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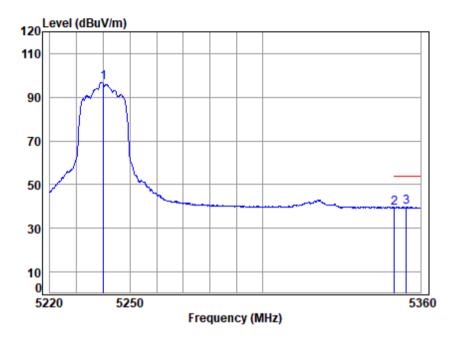


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 96 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5240 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.62	34.08	35.26	90.50	96.94			Average
2	5350.020	7.70	34.40	35.21	32.53	39.42	54.00	-14.58	Average
3 a	5354.612	7.71	34.42	35.21	32.70	39.62	54.00	-14.38	Average



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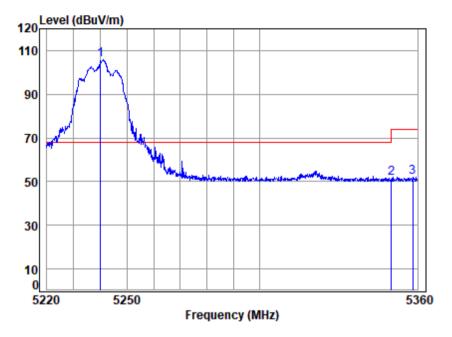


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 97 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5240 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	5240.000	7.62	34.08	35.26	99.53	105.97	68.20	37.77	Peak	
2	5350.020	7.70	34.40	35.21	44.59	51.48	74.00	-22.52	Peak	
3	5358,156	7.71	34.43	35.20	45.17	52.11	74.00	-21.89	Peak	



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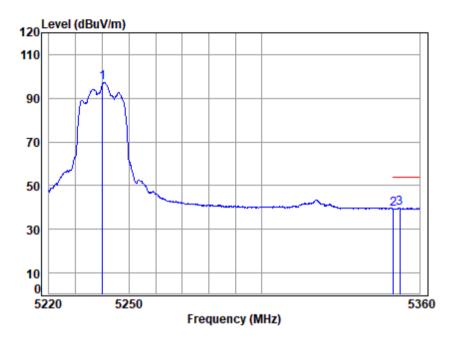


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 98 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5240 Band edge

: 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	5240.000	7.62	34.08	35.26	90.96	97.40			Average	
2	5350.020	7.70	34.40	35.21	32.57	39.46	54.00	-14.54	Average	
	q 5352.487								_	



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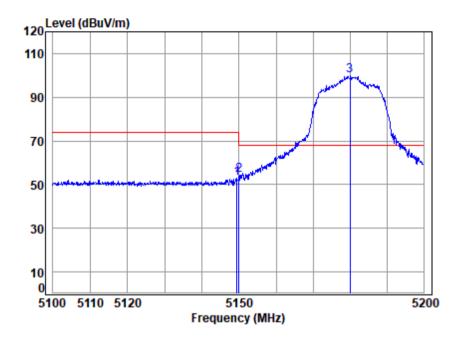


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 99 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5180 Band edge

: 5G WIFI 11N20

	Enoa			Preamp Factor					Pomank
									Nelliark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.357	7.55	33.90	35.31	46.96	53.10	74.00	-20.90	peak
2	5149.980	7.55	33.90	35.31	48.12	54.26	74.00	-19.74	peak
3	p 5180.000	7.57	33.96	35.29	93.86	100.10	68.20	31.90	peak



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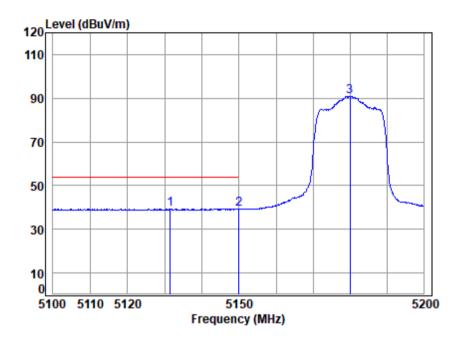


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 100 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5180 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	q 5131.490	7.54	33.94	35.32	33.20	39.36	54.00	-14.64	Average	
	5149.980								_	
	5180.000								_	



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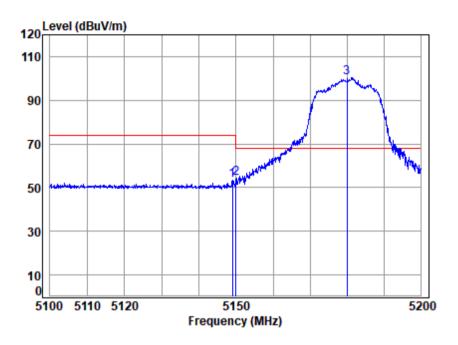


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 101 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5180 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.958	7.55	33.90	35.31	47.40	53.54	74.00	-20.46	Peak
2	5149.980	7.55	33.90	35.31	48.30	54.44	74.00	-19.56	Peak
3	p 5180.000	7.57	33.96	35.29	94.14	100.38	68.20	32.18	Peak



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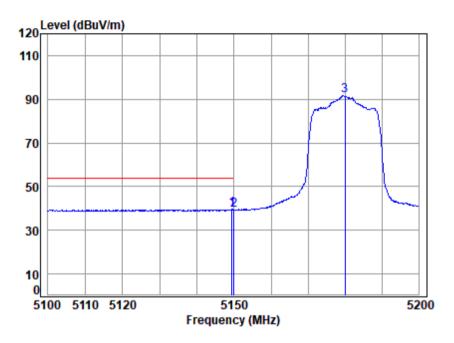


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 102 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5180 Band edge

: 5G WIFI 11N20

		****	11.120							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	q 5149.458	7.55	33.90	35.31	33.33	39.47	54.00	-14.53	Average	
	5149.980								_	
	5180.000								_	



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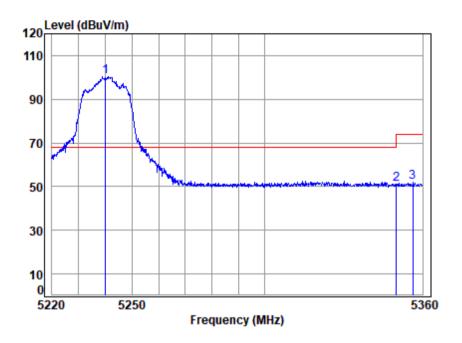


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 103 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5240 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5240.000								-
2	5350.020	7.70	34.40	35.21	44.14	51.03	74.00	-22.97	peak
3	5356, 313	7.71	34.43	35.20	44.85	51.79	74.00	-22.21	neak



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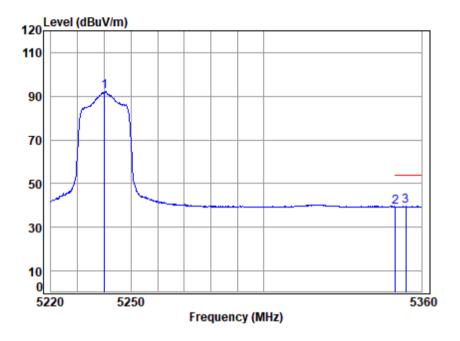


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 104 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5240 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	7.62	34.08	35.26	85.60	92.04			Average
2	5350.020	7.70	34.40	35.21	32.50	39.39	54.00	-14.61	Average
	q 5353.903								_



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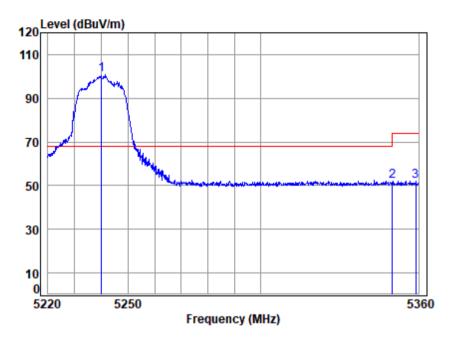


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 105 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5240 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor						
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	5240.000	7.62	34.08	35.26	94.60	101.04	68.20	32.84	Peak	
2	5350.020	7.70	34.40	35.21	45.15	52.04	74.00	-21.96	Peak	
3	5358,865	7.71	34.44	35.20	45.25	52.20	74.00	-21.80	Peak	



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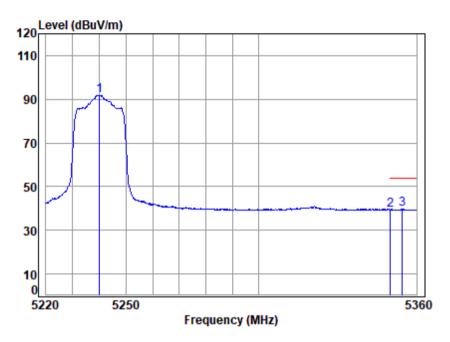


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 106 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5240 Band edge

: 5G WIFI 11N20

		****	11.120							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	5240.000	7.62	34.08	35.26	85.42	91.86			Average	
	5350.020								_	
	5354.470								_	



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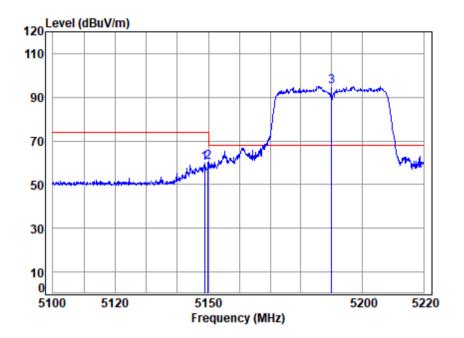


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 107 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	5148.743								•	
2	5149.980	7.55	33.90	35.31	54.21	60.35	74.00	-13.65	peak	
3 r	5190.000	7.58	33.98	35.29	88.78	95.05	68.20	26.85	peak	



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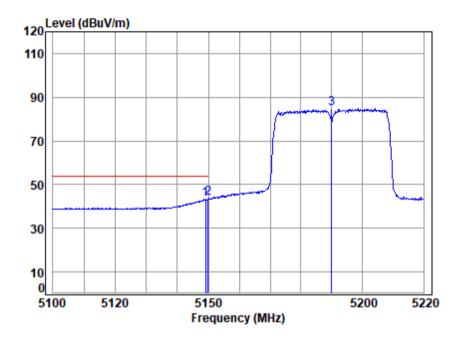


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 108 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5190 Band edge

: 5G WIFI 11N40

		_			Preamp					
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
				,						
1		5149.102	7.55	33.90	35.31	37.06	43.20	54.00	-10.80	Average
2	q	5149.980	7.55	33.90	35.31	37.45	43.59	54.00	-10.41	Average
3		5190.000	7.58	33.98	35.29	78.57	84.84			Average



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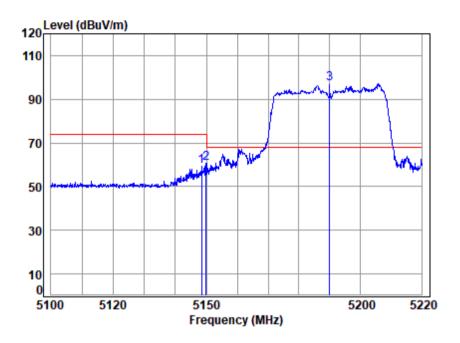


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 109 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5190 Band edge

: 5G WIFI 11N40

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz			dB		dBu\//m	dBuV/m		
	PILIZ	ub	ub/III	ub	ubuv	ubuv/III	ubuv/III	ub	
1	5148.384	7.55	33.90	35.31	52.97	59.11	74.00	-14.89	Peak
2	5149.980	7.55	33.90	35.31	54.72	60.86	74.00	-13.14	Peak
3	p 5190.000	7.58	33.98	35.29	90.82	97.09	68.20	28.89	Peak



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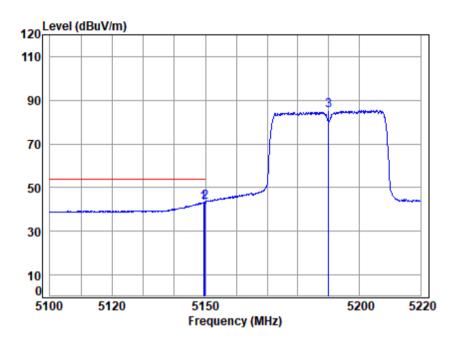


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 110 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5190 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.461	7.55	33.90	35.31	36.96	43.10	54.00	-10.90	Average
	5149.980								_
_	5190.000								_



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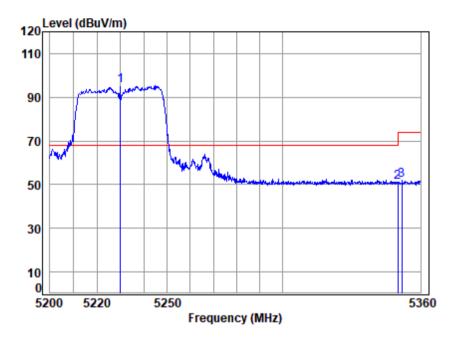


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 111 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5230 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5230.000	7.61	34.06	35.27	88.85	95.25	68.20	27.05	peak
	5350.020								-
	5351.884								•



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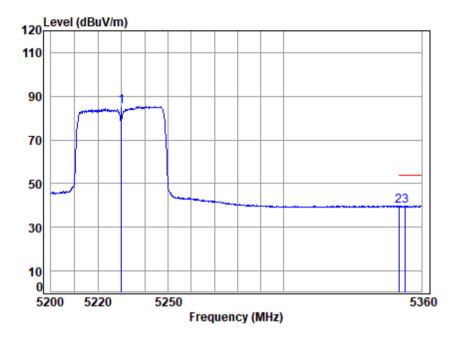


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 112 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5230 Band edge

: 5G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5230.000	7.61	34.06	35.27	78.80	85.20			Average	
2	5350.020	7.70	34.40	35.21	32.82	39.71	54.00	-14.29	Average	
	q 5352.857								_	



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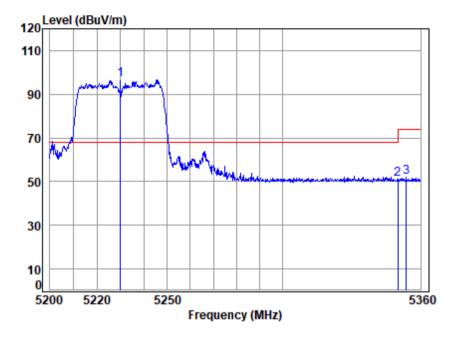


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 113 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5230 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5230.000	7.61	34.06	35.27	90.36	96.76	68.20	28.56	Peak
2	5350.020	7.70	34.40	35.21	44.14	51.03	74.00	-22.97	Peak
3	5353.669	7.71	34.41	35.21	44.94	51.85	74.00	-22.15	Peak



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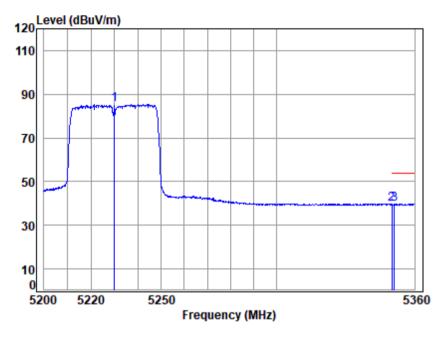


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Report No.: SZCR240400113805

Page: 114 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5230 Band edge

: 5G WTFT 11N40

		. 50	AATI T	TINTO							
			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		5230.000	7.61	34.06	35.27	78.89	85.29			Average	
2	q	5350.020	7.70	34.40	35.21	32.78	39.67	54.00	-14.33	Average	
3	Ī	5351.235	7.71	34.40	35.21	32.76	39.66	54.00	-14.34	Average	



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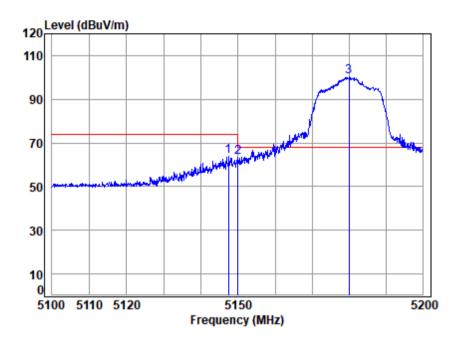


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 115 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5180 Band edge

: 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	5147.458	7.55	33.91	35.31	57.60	63.75	74.00	-10.25	peak
2	5149.980	7.55	33.90	35.31	57.48	63.62	74.00	-10.38	peak
	p 5180.000								•



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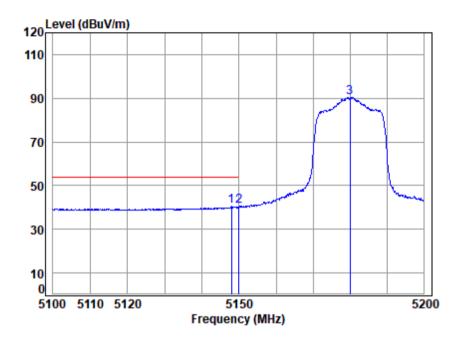


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 116 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5180 Band edge

: 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	q 5147.958	7.55	33.90	35.31	34.27	40.41	54.00	-13.59	Average	
	5149.980								_	
	5180.000								_	



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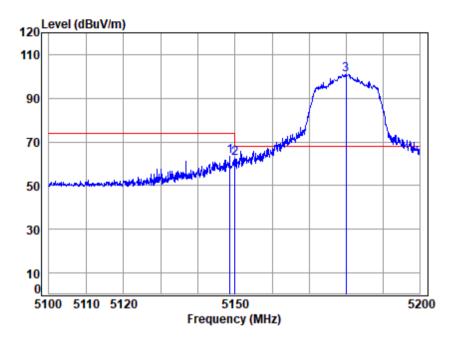


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 117 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5180 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					Remark
	MHz			dB					
1	5148.558	7.55	33.90	35.31	57.23	63.37	74.00	-10.63	Peak
	5149.980								
3	p 5180.000	7.57	33.96	35.29	94.75	100.99	68.20	32.79	Peak



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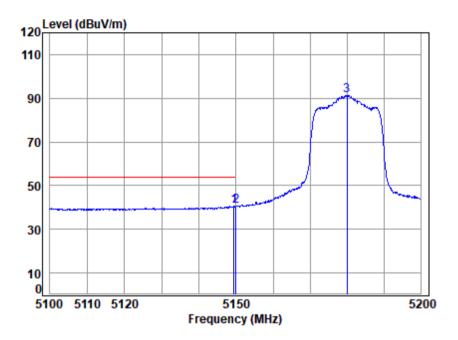


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Report No.: SZCR240400113805

Page: 118 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5180 Band edge

: 5G WIFI 11AC20

		****	TIMELO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5	149.458	7.55	33.90	35.31	34.64	40.78	54.00	-13.22	Average
_	149.980								_
	180.000								_



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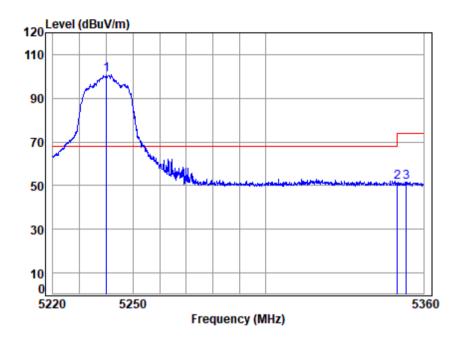


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 119 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5240 Band edge

: 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 p	5240.000	7.62	34.08	35.26	94.19	100.63	68.20	32.43	peak	
	5350.020								-	
	5353.337								•	



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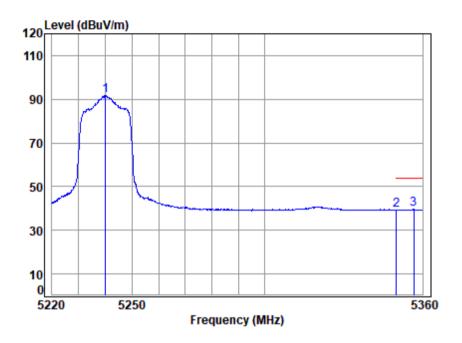


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 120 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5240 Band edge

: 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	5240.000	7.62	34.08	35.26	85.18	91.62			Average	
2	5350.020	7.70	34.40	35.21	32.57	39.46	54.00	-14.54	Average	
	q 5356.596								_	



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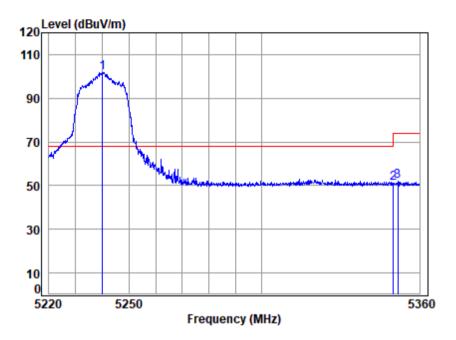


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 121 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5240 Band edge

: 5G WIFI 11AC20

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	p 5240.000	7.62	34.08	35.26	95.34	101.78	68.20	33.58	Peak
2	5350.020	7.70	34.40	35.21	44.36	51.25	74.00	-22.75	Peak
3	5351.778	7.71	34.41	35.21	44.94	51.85	74.00	-22.15	Peak



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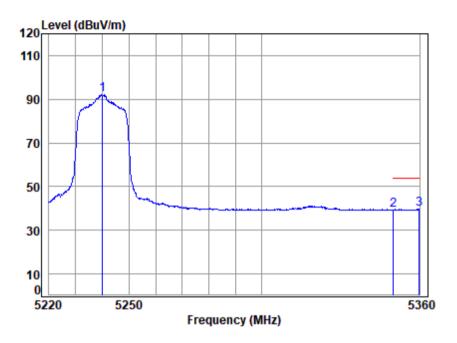


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 122 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5240 Band edge

: 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	5240.000	7.62	34.08	35.26	85.53	91.97			Average
2	5350.020	7.70	34.40	35.21	32.55	39.44	54.00	-14.56	Average
	5359.858								_



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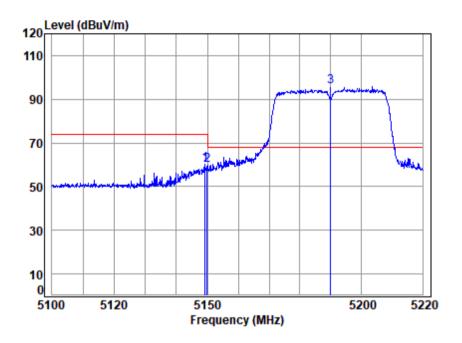


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 123 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5190 Band edge

: 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	5149.342	7.55	33.90	35.31	54.24	60.38	74.00	-13.62	peak
2	5149.980	7.55	33.90	35.31	53.77	59.91	74.00	-14.09	peak
	p 5190.000								•



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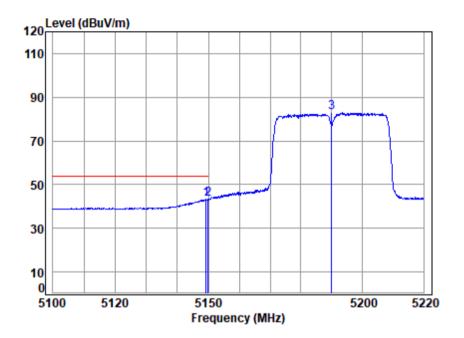


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 124 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5190 Band edge

: 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 0	5149.342	7.55	33.90	35.31	37.39	43.53	54.00	-10.47	Average
2	5149.980	7.55	33.90	35.31	37.06	43.20	54.00	-10.80	Average
	5190.000								_



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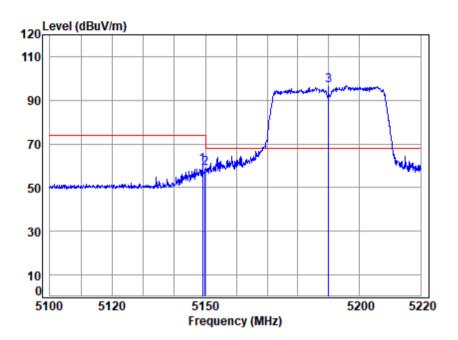


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 125 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5190 Band edge

: 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	5149.102	7.55	33.90	35.31	54.05	60.19	74.00	-13.81	Peak	
2	5149.980	7.55	33.90	35.31	52.55	58.69	74.00	-15.31	Peak	
3	p 5190.000	7.58	33.98	35.29	90.38	96.65	68.20	28.45	Peak	



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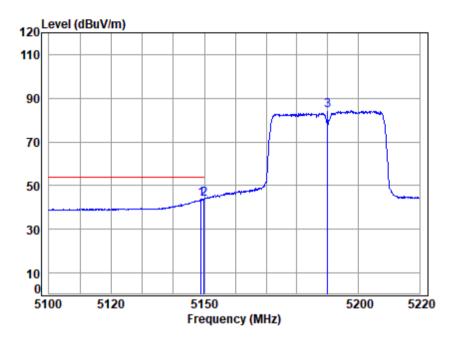


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 126 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5190 Band edge

: 5G WIFI 11AC40

		****	±±/10 10							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5148.982	7.55	33.90	35.31	37.46	43.60	54.00	-10.40	Average	
	5149.980								_	
	5190.000								_	



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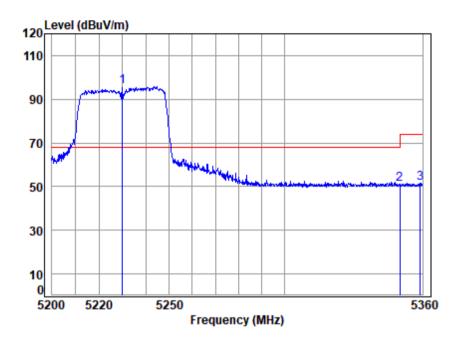


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 127 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5230 Band edge

: 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 5230.000	7.61	34.06	35.27	89.62	96.02	68.20	27.82	peak
2	5350.020	7.70	34.40	35.21	44.07	50.96	74.00	-23.04	peak
3	5359.025	7.71	34.44	35.20	44.56	51.51	74.00	-22.49	peak



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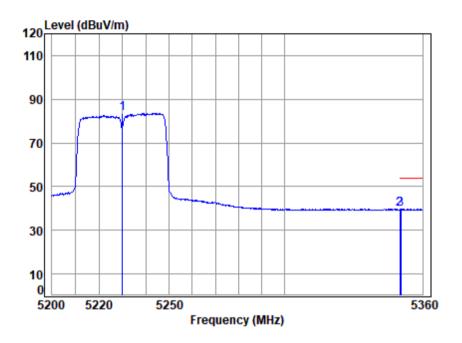


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 128 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5230 Band edge

: 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	5230.000	7.61	34.06	35.27	77.12	83.52			Average	
2	5350.020	7.70	34.40	35.21	32.73	39.62	54.00	-14.38	Average	
	q 5350.587								_	



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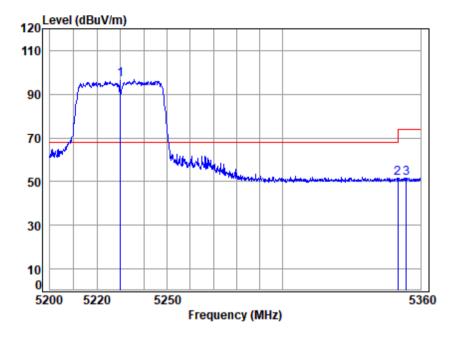


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 129 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5230 Band edge

: 5G WIFI 11AC40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5230.000								
2	5350.020	7.70	34.40	35.21	44.64	51.53	74.00	-22.47	Peak
3	5353.831	7.71	34.42	35.21	44.70	51.62	74.00	-22.38	Peak



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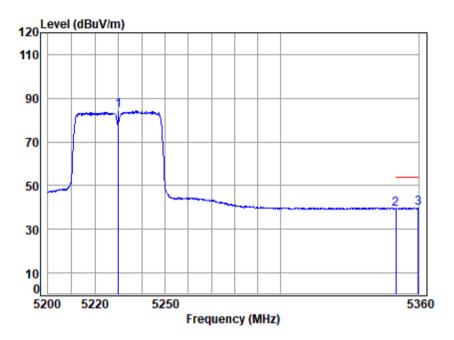


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 130 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5230 Band edge

: 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	5230.000	7.61	34.06	35.27	77.82	84.22			Average	
2	5350.020	7.70	34.40	35.21	32.49	39.38	54.00	-14.62	Average	
	q 5359.837								_	



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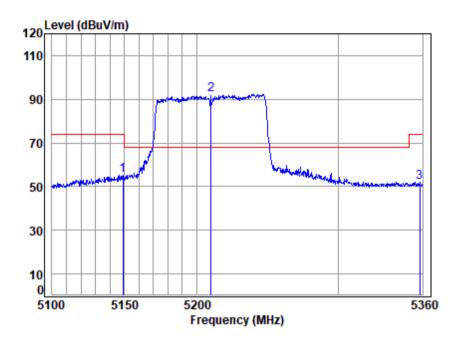


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 131 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5210 Band edge

: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.922	7.55	33.90	35.31	49.13	55.27	74.00	-18.73	peak
	5210.000								•
	5357.868								-



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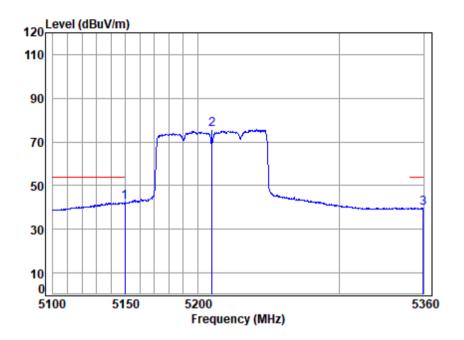


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 132 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5210 Band edge

: 5G WIFI 11AC80

	Enoa			Preamp Factor					Romank
	MHz			— dB					
1 /	q 5149.435					-			Λνορασο
2	5210.000	7.60	34.02	35.28	69.25	75.59			Average
3	5359.733	7.71	34.44	35.20	32.80	39.75	54.00	-14.25	Average



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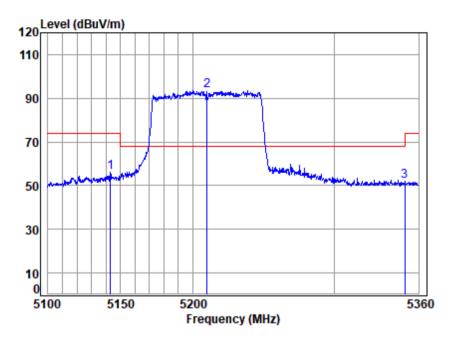


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 133 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5210 Band edge

: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5143.037	7.54	33.91	35.31	49.88	56.02	74.00	-17.98	Peak
2	p 5210.000	7.60	34.02	35.28	87.24	93.58	68.20	25.38	Peak
	5350.148								



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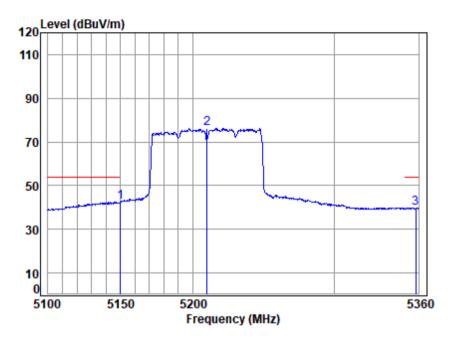


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 134 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5210 Band edge

: 5G WIFI 11AC80

			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	q	5149.690	7.55	33.90	35.31	36.29	42.43	54.00	-11.57	Average	
		5210.000								_	
		5358.135								_	



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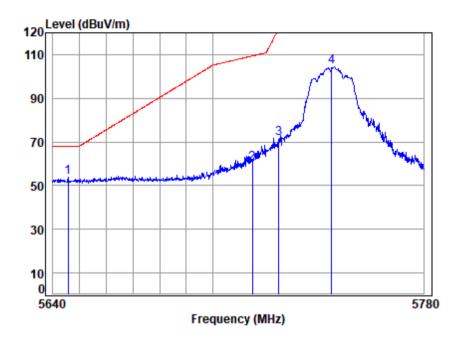


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 135 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5745 Band edge

: 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 p	5645.673	7.92	34.43	35.06	46.40	53.69	68.20	-14.51	peak
2	5715.000	7.97	34.27	35.03	53.14	60.35	109.40	-49.05	peak
3	5725.000	7.98	34.25	35.03	64.53	71.73	122.20	-50.47	peak
4	5745.000	7.99	34.21	35.02	97.32	104.50			peak



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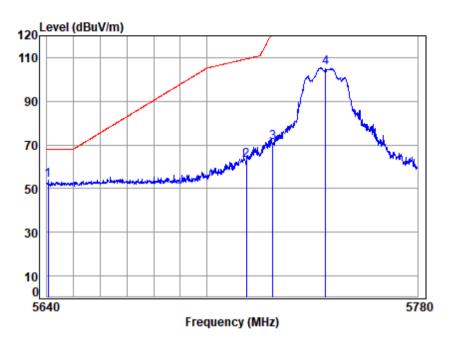


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 136 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5745 Band edge

: 5G WIFI 11A

		Enoa			Preamp Factor					Romank
										Nelliark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	р	5640.553	7.92	34.46	35.07	46.52	53.83	68.20	-14.37	peak
		5715.000								•
3		5725.000	7.98	34.25	35.03	64.04	71.24	122.20	-50.96	peak
4		5745.000	7.99	34.21	35.02	98.33	105.51			peak



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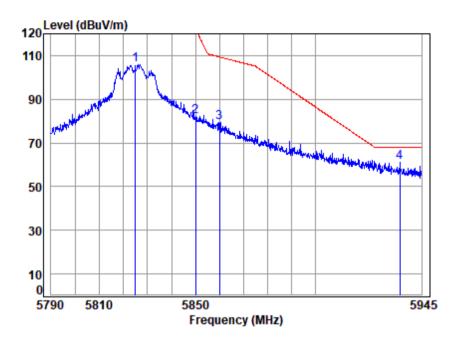


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 137 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5825 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	5825.000	8.05	34.35	34.98	98.50	105.92			peak
2	5850.000	8.07	34.40	34.97	74.58	82.08	122.20	-40.12	peak
3	5860.000	8.07	34.44	34.96	71.79	79.34	109.40	-30.06	peak
4	p 5935.741	8.13	34.67	34.93	53.23	61.10	68.20	-7.10	peak



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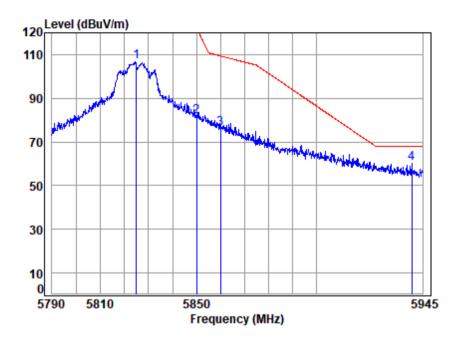


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 138 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5825 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	99.39	106.81			Peak
2	5850.000	8.07	34.40	34.97	73.97	81.47	121.58	-40.11	Peak
3	5860.000	8.07	34.44	34.96	68.68	76.23	109.39	-33.16	Peak
4	p 5940.447	8.13	34.68	34.93	52.12	60.00	68.20	-8.20	Peak



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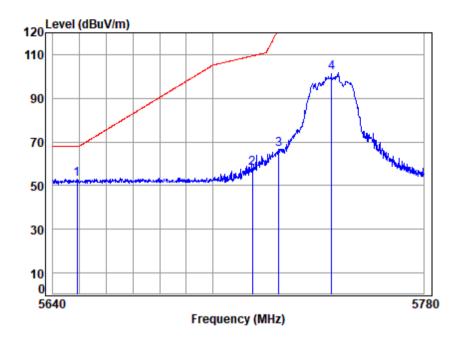


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 139 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5745 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	p 5648.996	7.93	34.41	35.06	45.85	53.13	68.20	-15.07	peak
2	5715.000	7.97	34.27	35.03	50.95	58.16	109.40	-51.24	peak
3	5725.000	7.98	34.25	35.03	59.60	66.80	122.20	-55.40	peak
4	5745.000	7.99	34.21	35.02	94.37	101.55			peak



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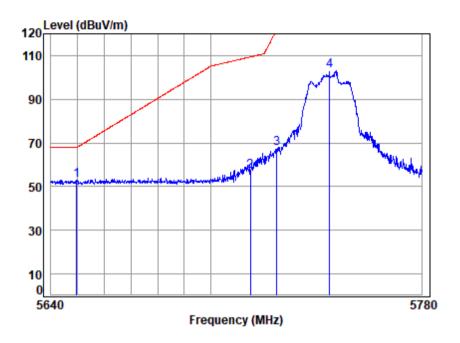


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 140 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5745 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5649.688								-
	5715.000 5725.000								•
4	5745.000	7.99	34.21	35.02	95.87	103.05			peak



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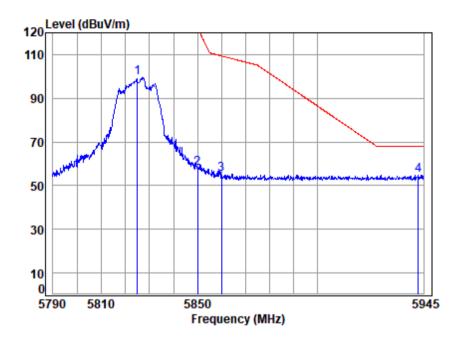


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 141 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5825 Band edge

: 5G WIFI 11N20

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5825.000	8.05	34.35	34.98	92.25	99.67			peak
2		5850.000	8.07	34.40	34.97	50.64	58.14	122.20	-64.06	peak
3		5860.000	8.07	34.44	34.96	47.81	55.36	109.40	-54.04	peak
4	р	5942.802	8.13	34.69	34.93	46.84	54.73	68.20	-13.47	peak



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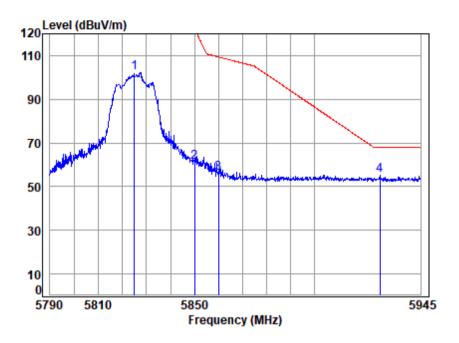


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 142 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5825 Band edge

: 5G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	8.05	34.35	34.98	94.99	102.41			peak
2	5850.000	8.07	34.40	34.97	53.58	61.08	122.20	-61.12	peak
3	5860.000	8.07	34.44	34.96	48.63	56.18	109.40	-53.22	peak
4 1	p 5927.749	8.12	34.66	34.93	47.57	55.42	68.20	-12.78	peak



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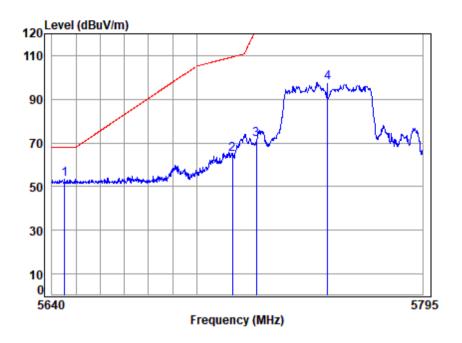


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 143 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5755 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5645.354	7.92	34.43	35.06	46.25	53.54	68.20	-14.66	peak
2	5715.000	7.97	34.27	35.03	57.60	64.81	109.40	-44.59	peak
3	5725.000	7.98	34.25	35.03	64.50	71.70	122.20	-50.50	peak
4	5755.000	8.00	34.21	35.01	90.24	97.44			peak



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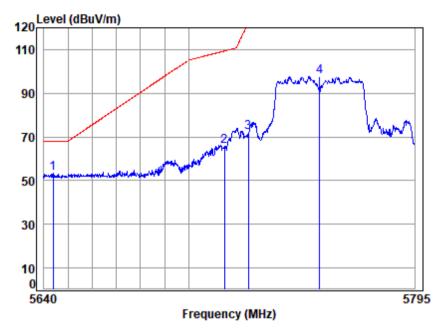


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 144 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5755 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5643.824								-
	5715.000 5725.000								•
4	5755.000	8.00	34.21	35.01	90.40	97.60			peak



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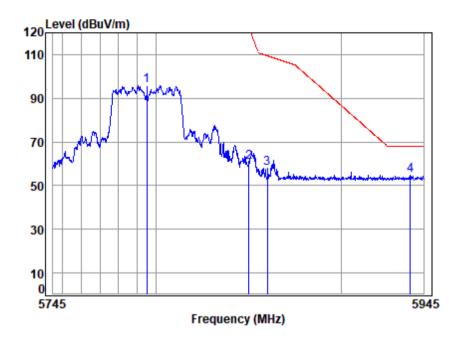


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 145 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5795 Band edge

: 5G WIFI 11N40

		${\tt Cable}$	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.03	34.29	34.99	88.56	95.89			peak
2	5850.000	8.07	34.40	34.97	53.37	60.87	122.20	-61.33	peak
3	5860.000	8.07	34.44	34.96	50.56	58.11	109.40	-51.29	peak
4	p 5937.681	8.13	34.68	34.93	46.73	54.61	68.20	-13.59	peak



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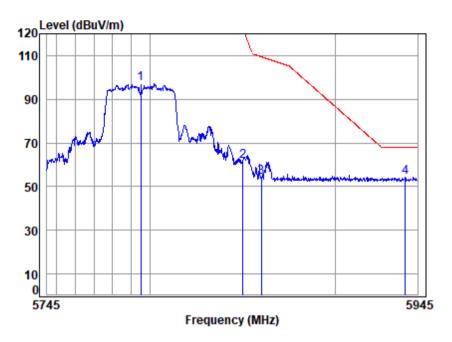


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 146 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5795 Band edge

: 5G WIFI 11N40

	Erea			Preamp Factor					Remark
						Level			Kelliai K
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	8.03	34.29	34.99	89.84	97.17			neak
				34.97					•
3	5860.000	8.07	34.44	34.96	46.68	54.23	109.40	-55.17	peak
4	p 5938,290	8.13	34.68	34.93	46.36	54.24	68.20	-13.96	peak



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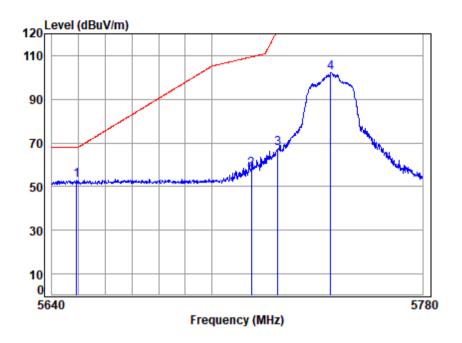


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 147 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5745 Band edge

: 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 p	5649.135	7.93	34.41	35.06	45.50	52.78	68.20	-15.42	peak
2	5715.000	7.97	34.27	35.03	50.87	58.08	109.40	-51.32	peak
3	5725.000	7.98	34.25	35.03	60.28	67.48	122.20	-54.72	peak
4	5745.000	7.99	34.21	35.02	95.23	102.41			peak



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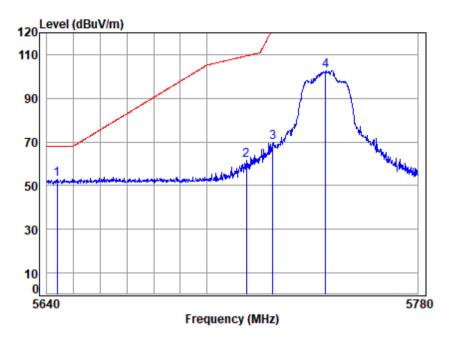


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 148 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5745 Band edge

: 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 p	5643.874	7.92	34.44	35.06	45.76	53.06	68.20	-15.14	peak
2	5715.000	7.97	34.27	35.03	54.56	61.77	109.40	-47.63	peak
3	5725.000	7.98	34.25	35.03	62.71	69.91	122.20	-52.29	peak
4	5745.000	7.99	34.21	35.02	95.58	102.76			peak



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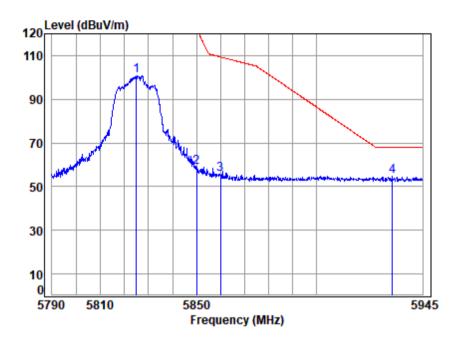


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 149 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5825 Band edge

: 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	5825.000	8.05	34.35	34.98	93.59	101.01			peak
2	5850.000	8.07	34.40	34.97	51.29	58.79	122.20	-63.41	peak
3	5860.000	8.07	34.44	34.96	48.22	55.77	109.40	-53.63	peak
4	p 5932.292	8.12	34.66	34.93	46.96	54.81	68.20	-13.39	peak



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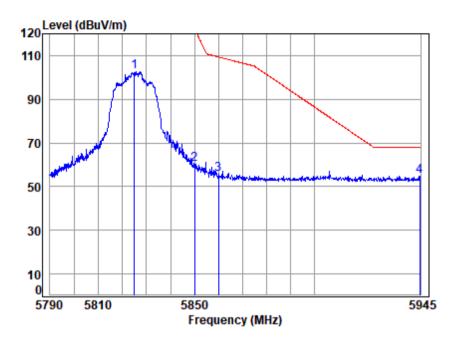


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 150 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5825 Band edge

: 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		5825.000	8.05	34.35	34.98	95.44	102.86			peak
2		5850.000	8.07	34.40	34.97	52.75	60.25	122.20	-61.95	peak
3		5860.000	8.07	34.44	34.96	48.10	55.65	109.40	-53.75	peak
4	р	5944.686	8.13	34.69	34.92	46.91	54.81	68.20	-13.39	peak



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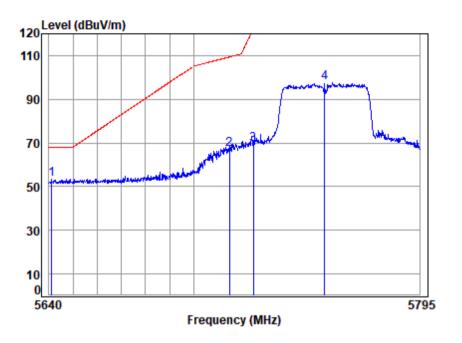


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 151 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5755 Band edge

: 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	5641.070	7.92	34.45	35.07	46.27	53.57	68.20	-14.63	peak
2	5715.000	7.97	34.27	35.03	59.76	66.97	109.40	-42.43	peak
3	5725.000	7.98	34.25	35.03	62.30	69.50	122.20	-52.70	peak
4	5755.000	8.00	34.21	35.01	90.23	97.43			peak



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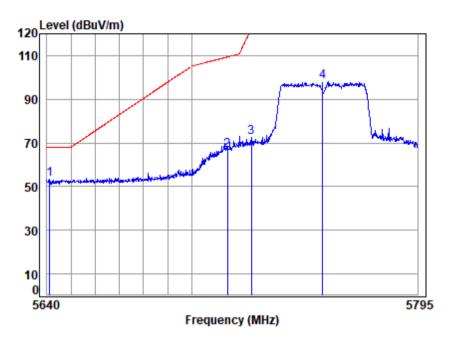


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 152 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5755 Band edge

: 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	5641.070	7.92	34.45	35.07	46.08	53.38	68.20	-14.82	peak
2	5715.000	7.97	34.27	35.03	59.61	66.82	109.40	-42.58	peak
3	5725.000	7.98	34.25	35.03	65.33	72.53	122.20	-49.67	peak
4	5755.000	8.00	34.21	35.01	90.81	98.01			peak



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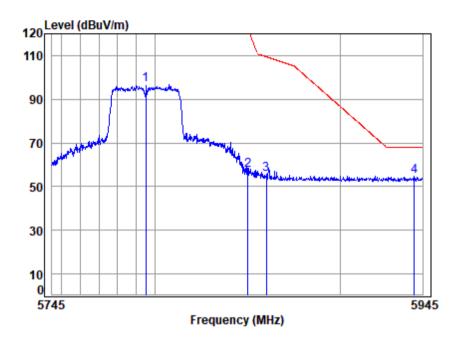


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 153 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5795 Band edge

: 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		5795.000	8.03	34.29	34.99	89.20	96.53			peak
2	2	5850.000	8.07	34.40	34.97	49.85	57.35	122.20	-64.85	peak
3		5860.000	8.07	34.44	34.96	48.03	55.58	109.40	-53.82	peak
4	р	5940.526	8.13	34.68	34.93	47.04	54.92	68.20	-13.28	peak



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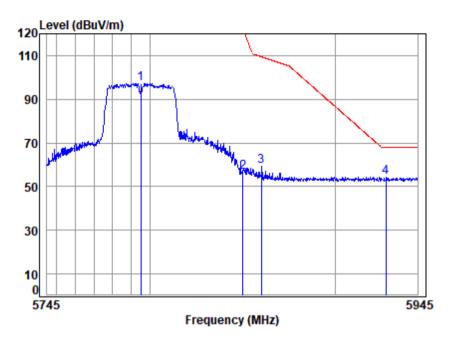


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 154 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5795 Band edge

: 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	5795.000	8.03	34.29	34.99	90.06	97.39			peak
2	5850.000	8.07	34.40	34.97	48.88	56.38	122.20	-65.82	peak
3	5860.000	8.07	34.44	34.96	51.65	59.20	109.40	-50.20	peak
4	p 5927.732	8.12	34.66	34.93	46.44	54.29	68.20	-13.91	peak



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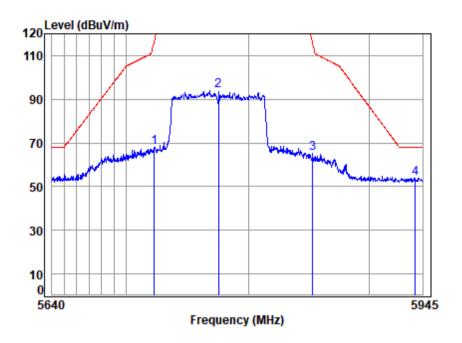


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 155 of 299

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



Site : chamber

Condition: 3m HORIZONTAL : 01138AT/01139AT

Mode : 5775 Band edge

: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5722.582	7.98	34.25	35.03	60.78	67.98	116.69	-48.71	peak
2	5775.000	8.01	34.25	35.00	86.66	93.92			peak
3	5852.732	8.07	34.41	34.97	57.95	65.46	115.97	-50.51	peak
4	p 5938.741	8.13	34.68	34.93	45.94	53.82	68.20	-14.38	peak



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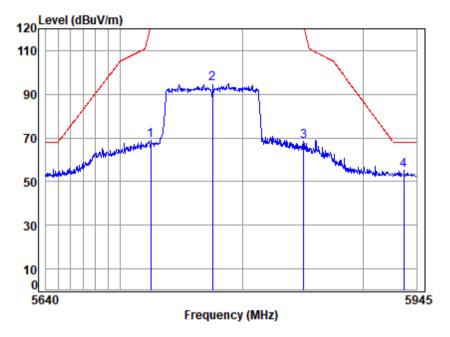


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 156 of 299

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



Site : chamber Condition: 3m VERTICAL : 01138AT/01139AT

Mode : 5775 Band edge

: 5G WIFI 11AC80

			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5724.691	7.98	34.25	35.03	61.79	68.99	121.50	-52.51	peak
2		5775.000	8.01	34.25	35.00	87.75	95.01			peak
3		5850.575	8.07	34.40	34.97	60.93	68.43	120.89	-52.46	peak
4	р	5934.364	8.13	34.67	34.93	47.28	55.15	68.20	-13.05	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 157 of 299

### 7.11 Frequency Stability

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

#### 7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 25.3 °C Humidity: 42.4 % RH Atmospheric Pressure: 1020 mbar

#### 7.11.2 Test Mode Description

7.11.2 Test mode bescription								
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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.						
Final test	10	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(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ac(VHT80). data rate @HE0 is the worst case of IEEE 802.11ax(HEW20), 802.11ax(HEW40), 802.11ax(HEW80). Only the data of worst case is recorded in the report.						



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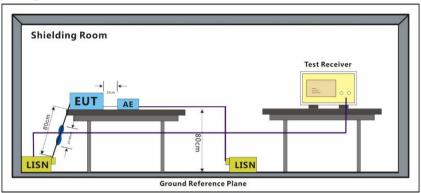


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 158 of 299

#### 7.11.3 Test Setup Diagram



#### 7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240400113805

> Page: 159 of 299

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

Refer to Setup Photo for SZCR2404001138AT

#### **EUT Constructional Details (EUT Photos)** 9

Refer to External and Internal Photos for SZCR2404001138AT



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 160 of 299

# 10 Appendix

1. Duty Cycle

1.1 Ant0

#### 1.1.1 Test Result

Ant0									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	1.428	1.447	98.69	0.06	0.03
		5200	/	/	1.428	1.447	98.69	0.06	0.07
		5240	/	/	1.428	1.446	98.76	0.05	0.03
		5745	/	/	1.429	1.446	98.82	0.05	0.03
		5785	/	/	1.429	1.447	98.76	0.05	0.07
		5825	/	/	1.429	1.447	98.76	0.05	0.07
802.11n (HT20)	MIMO	5180	/	/	1.337	1.356	98.60	0.06	0.03
		5200	/	/	0.693	0.710	97.61	0.11	0.06
		5240	/	/	0.692	0.711	97.33	0.12	0.03
		5745	/	/	0.693	0.711	97.47	0.11	0.03
		5785	/	/	0.693	0.711	97.47	0.11	0.03
		5825	/	/	0.693	0.710	97.61	0.11	0.06
802.11n (HT40)	MIMO	5190	/	/	0.357	0.375	95.20	0.21	0.04
		5230	/	/	0.357	0.375	95.20	0.21	0.39
		5755	/	/	0.357	0.375	95.20	0.21	0.04
		5795	/	/	0.358	0.375	95.47	0.20	0.07
802.11ac (VHT20)	MIMO	5180	/	/	31.190	31.520	98.95	0.05	0.00
		5200	/	/	0.696	0.715	97.34	0.12	0.03
		5240	/	/	0.696	0.715	97.34	0.12	0.03
		5745	/	/	0.697	0.715	97.48	0.11	0.06
		5785	/	/	0.696	0.715	97.34	0.12	0.03
		5825	/	/	0.698	0.715	97.62	0.10	0.03
802.11ac (VHT40)	МІМО	5190	/	/	0.360	0.379	94.99	0.22	0.07
		5230	1	/	0.362	0.379	95.51	0.20	0.07
		5755	1	/	0.360	0.379	94.99	0.22	0.07
		5795	/	/	0.362	0.380	95.26	0.21	0.07
802.11ac (VHT80)	МІМО	5210	/	/	0.192	0.212	90.57	0.43	0.06
		5775	/	/	0.192	0.211	91.00	0.41	0.09



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 161 of 299

802.11ax (HEW20)	MIMO -	5180	RU242	Left	44.890	45.210	99.29	0.03	0.00
		5200	RU242	Left	0.559	0.577	96.88	0.14	0.03
		5240	RU242	Left	0.559	0.577	96.88	0.14	0.03
		5745	RU242	Left	0.559	0.577	96.88	0.14	0.07
		5785	RU242	Left	0.559	0.577	96.88	0.14	0.07
		5825	RU242	Left	0.558	0.576	96.88	0.14	0.00
802.11ax (HEW40)	MIMO -	5190	RU484	Left	0.315	0.332	94.88	0.23	0.03
		5230	RU484	Left	0.315	0.333	94.59	0.24	0.09
		5755	RU484	Left	0.315	0.332	94.88	0.23	0.00
		5795	RU484	Left	0.315	0.332	94.88	0.23	0.06
802.11ax (HEW80)	MIMO	5210	RU996	Left	0.185	0.205	90.24	0.45	0.27
		5775	RU996	Left	0.188	0.205	91.71	0.38	0.13



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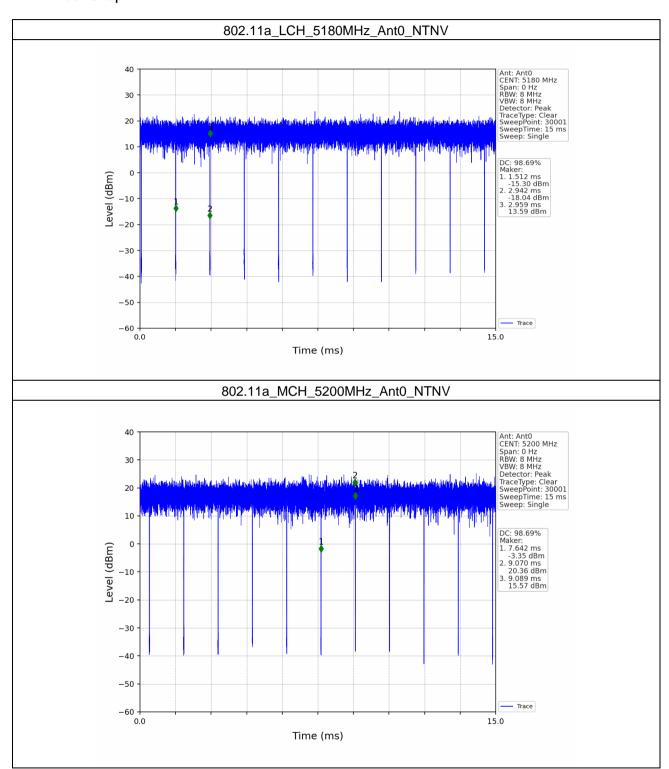


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 162 of 299

### 1.1.2 Test Graph





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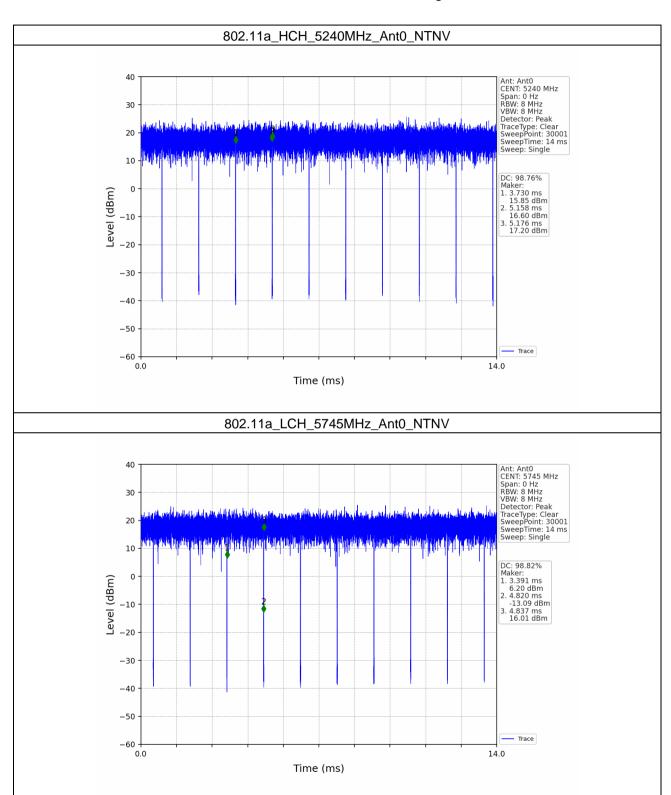
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Report No.: SZCR240400113805

Page: 163 of 299





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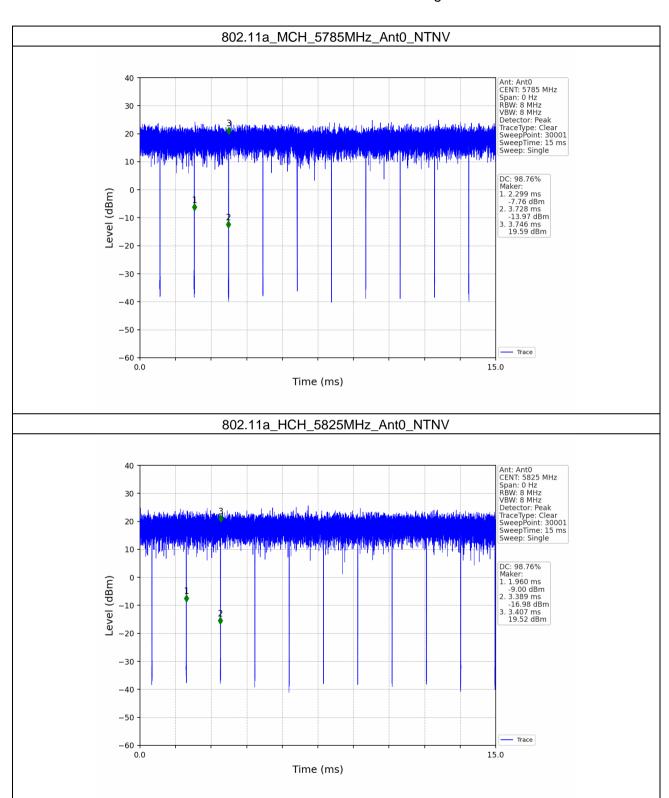
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 164 of 299





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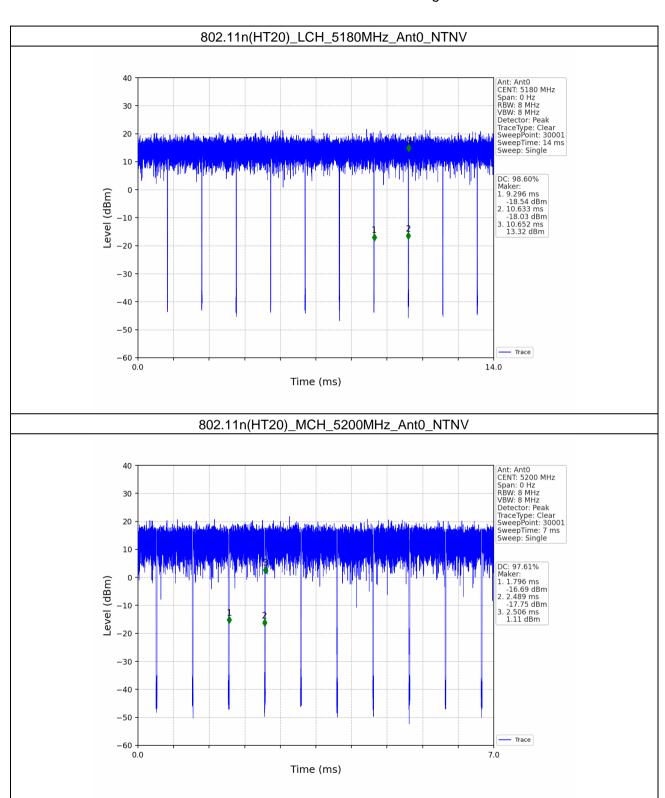
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 165 of 299





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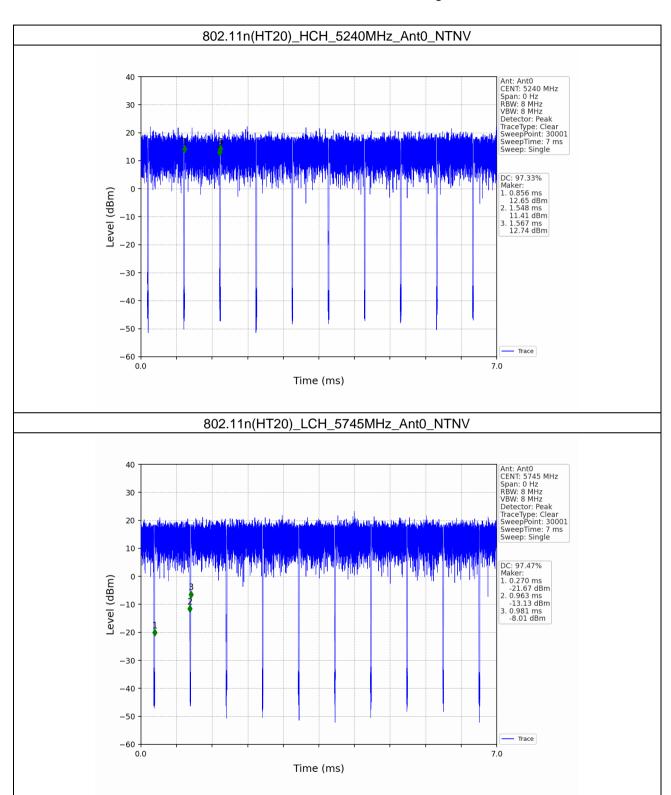
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Report No.: SZCR240400113805

Page: 166 of 299





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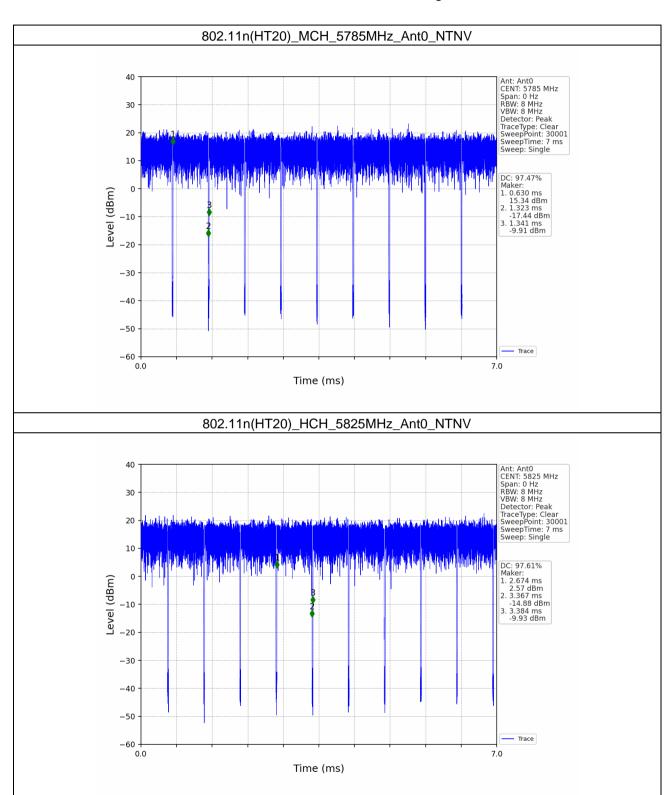
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Report No.: SZCR240400113805

Page: 167 of 299





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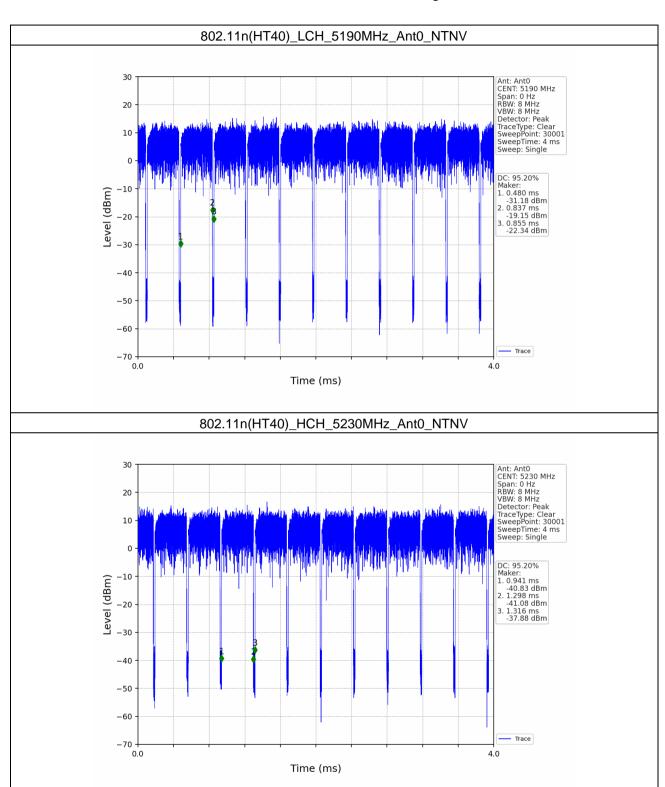
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Report No.: SZCR240400113805

Page: 168 of 299





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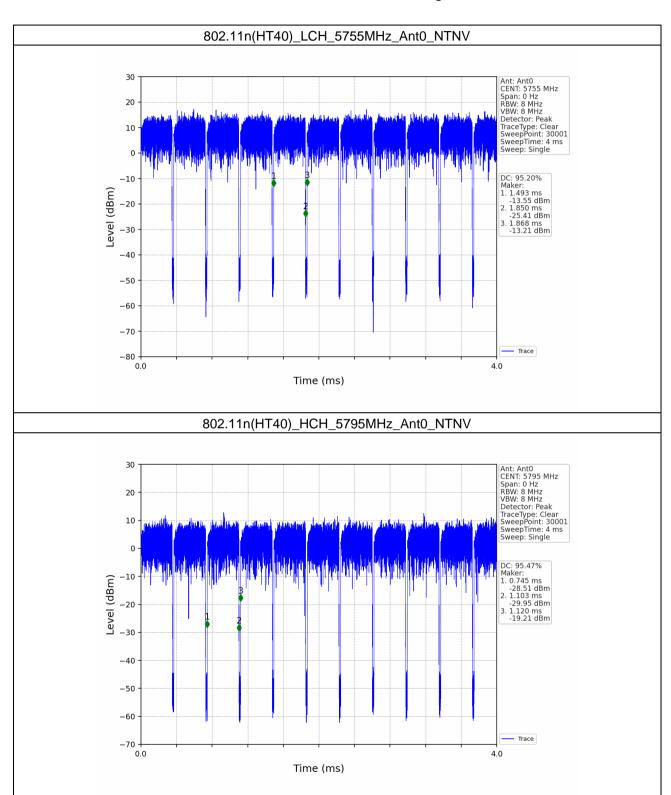
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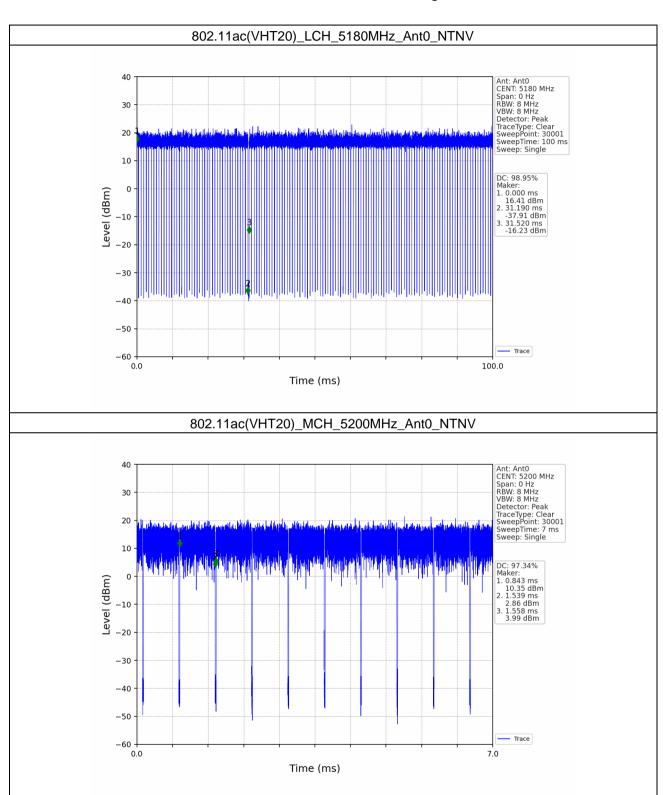
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Page: 170 of 299





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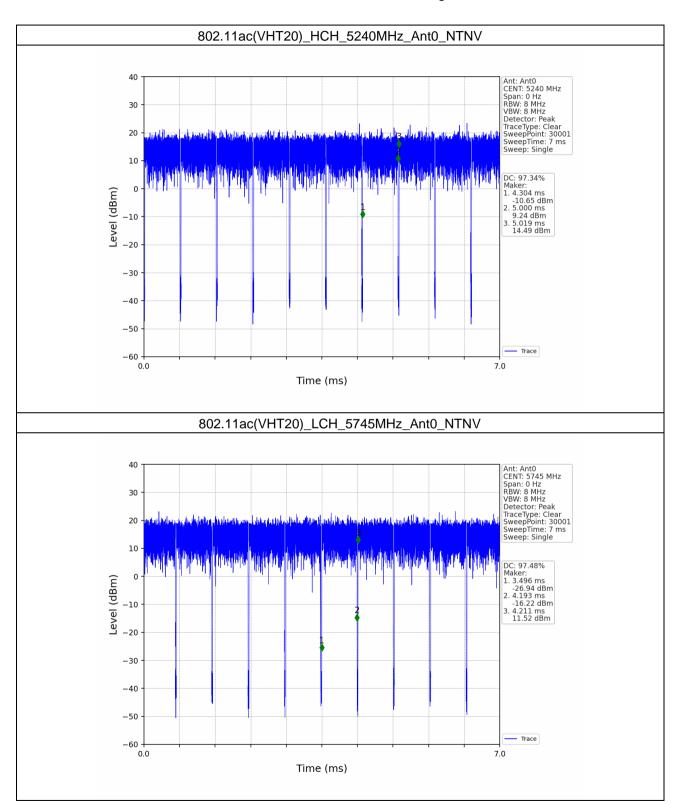
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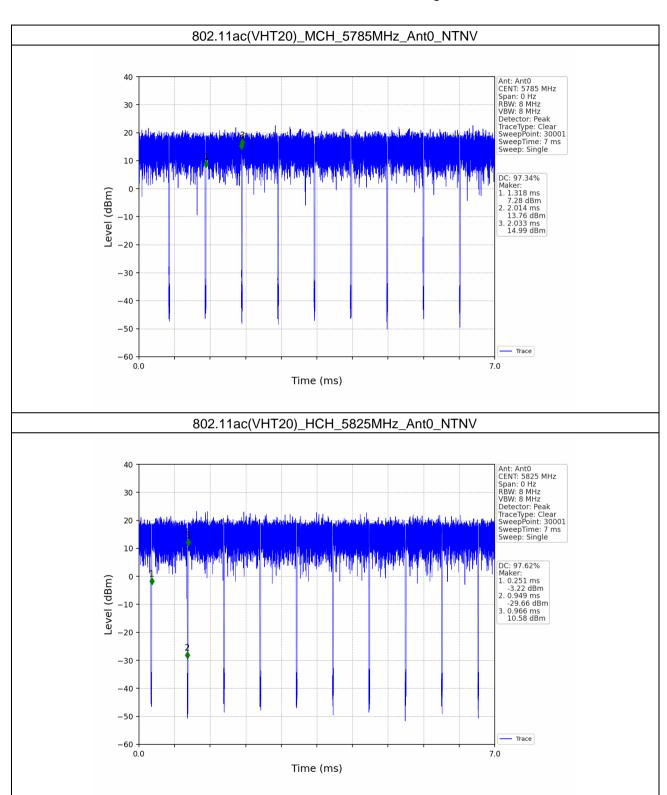
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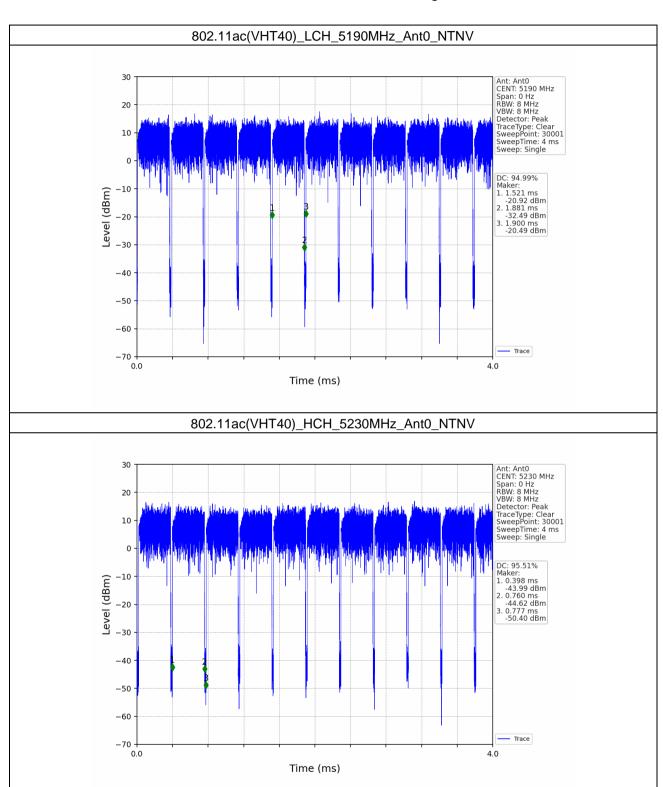
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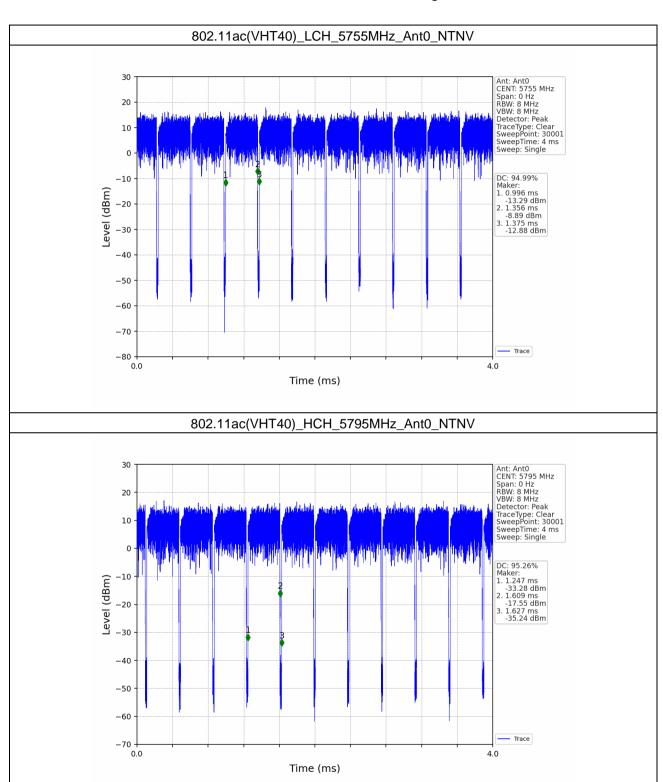
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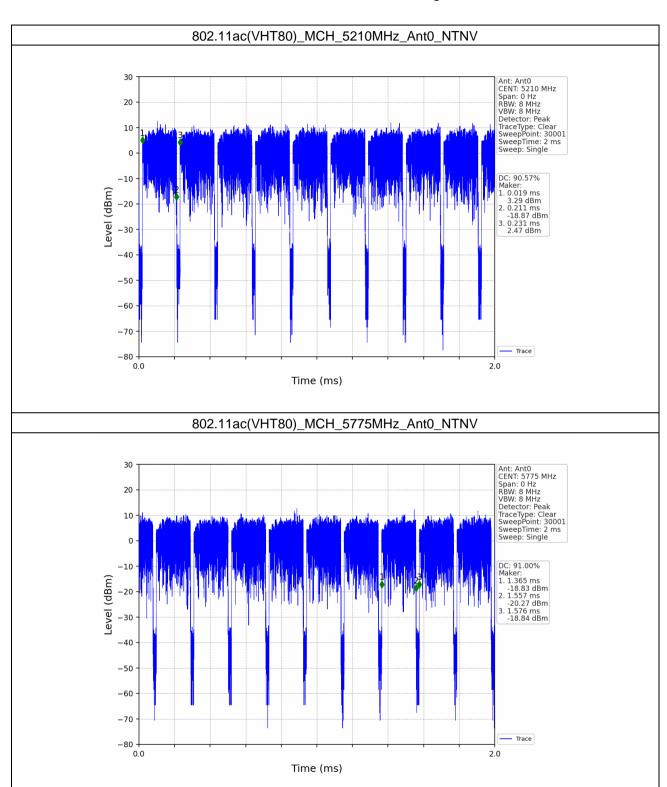
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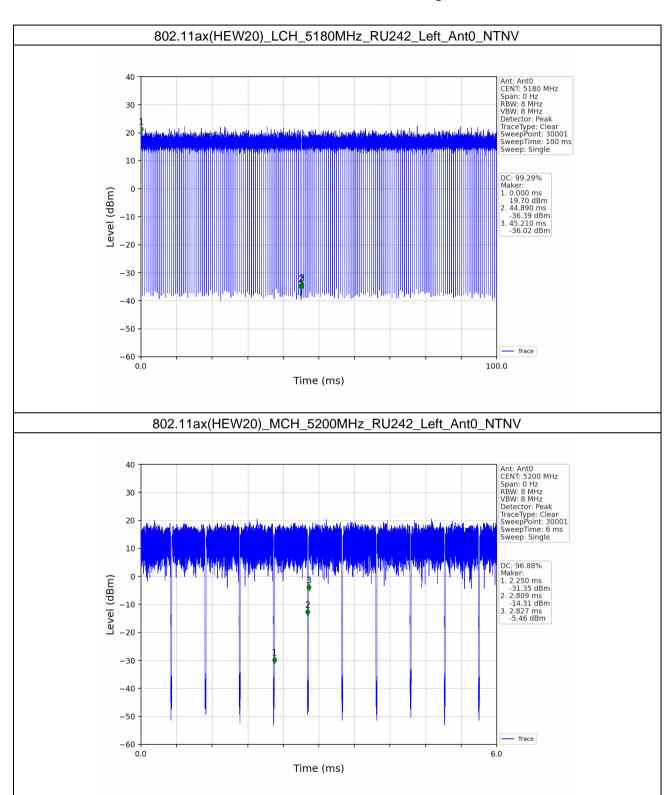
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Page: 176 of 299





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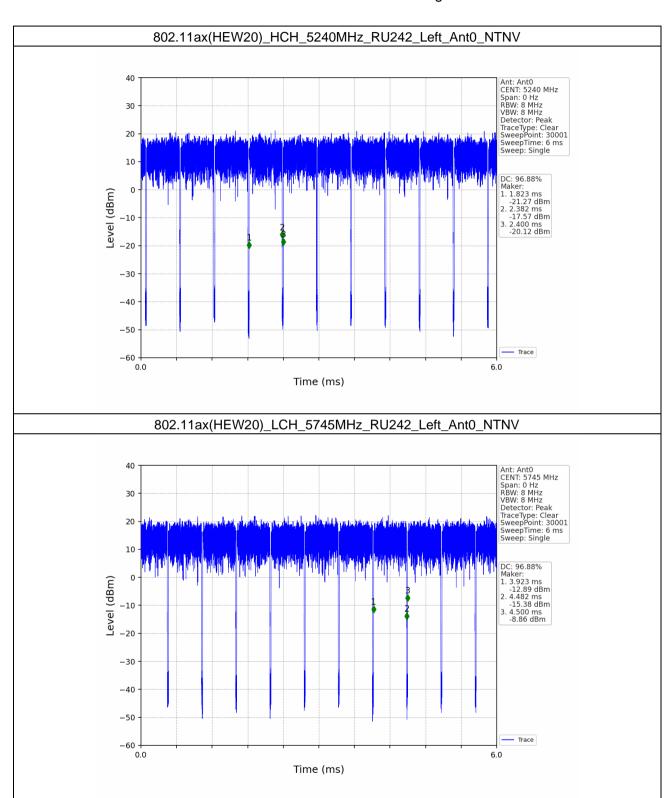
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400113805

Page: 177 of 299





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