

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

Page: 1 of 311

TEST REPORT

Application No.: SZCR2412004600AT

Applicant: Fujian Newland Payment Technology Co.,Ltd.

Address of Applicant: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015,

Fujian, China

Manufacturer: Fujian Newland Payment Technology Co.,Ltd.

Address of Manufacturer: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015,

Fujian, China

Equipment Under Test (EUT):

EUT Description: Unattended Terminal

Model No.: U2000 Trade Mark: Newland

FCC ID: 2AM6U-U2000

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

Date of Receipt: 2024-12-06

Date of Test: 2024-12-23 to 2025-01-08

Date of Issue: 2025-01-14

Test Result: Pass*

Keny Xu EMC Laboratory Manager

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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 2 of 311

	Revision Record					
Version	Version Chapter Date Modifier Ren					
01		2025-01-14		Original		

Authorized for issue by:		
	Dorjan. Huang	
	Donjon Huang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 3 of 311

2 **Test Summary**

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

Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Maximum Conducted output power		ANSI C63.10 (2013) Section 12.3	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Channel Move Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Duty Cycle	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 12.2	ANSI C63.10 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2013) Section 12.4.2	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2013) Section 12.4.1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB bandwidth (5.725-5.85 GHz band)		ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Peak Power spectrum density		ANSI C63.10 (2013) Section 12.5	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass
Channel Closing Transmission Time		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 4 of 311

3 Contents

		Page
Cover Pag	ge	1
Test Sumi	mary	3
	•	
Contents .		4
General In	nformation	7
4.1 Detai	ils of F U T	7
	· · · · · · · · · · · · · · · · · · ·	
4.6 Test I	Facility	10
4.8 Abno	ormalities from Standard Conditions	10
Equipmen	nt List	11
Dadia Cua	a struma. To sharing! Do suring an aut	4.4
_		
	·	
	·	
	·	
Radio Spe	ectrum Matter Test Results	16
7.1 Cond	ducted Emissions at AC Power Line (150kHz-30MHz)	16
	·	
	•	
	·	
	·	
	, ,	
	,	
	·	
	Contents General II 4.1 Deta 4.2 Envii 4.3 Desc 4.4 Meas 4.5 Test 4.6 Test 4.7 Devi 4.8 Abno Equipmer Radio Spo 6.1 Ante 6.1.1 Te 6.1.2 Co 6.2 Tran 6.2.1 Te 6.2.2 Co Radio Spo 7.1 Conc 7.1.1 E. 7.1.2 Te 7.1.3 Te 7.1.4 M 7.2 Maxi 7.2.1 E. 7.2.2 Te 7.2.3 Te 7.2.4 M 7.3 Radi 7.3.1 E. 7.3.2 Te 7.3.3 Te 7.3.4 M 7.4 Radi 7.4 Radi	4.2 Environment Parameter 4.3 Description of Support Units 4.4 Measurement Uncertainty 4.5 Test Location 4.6 Test Facility 4.7 Deviation from Standards 4.8 Abnormalities from Standard Conditions Equipment List Radio Spectrum Technical Requirement 6.1 Antenna Requirement 6.1.1 Test Requirement: 6.1.2 Conclusion 6.2 Transmission in the Absence of Data 6.2.1 Test Requirement: 6.2.2 Conclusion Radio Spectrum Matter Test Results 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 7.1.1 E.U.T. Operation 7.1.2 Test Mode Description 7.1.3 Test Setup Diagram 7.1.4 Measurement Procedure and Data 7.2 Maximum Conducted output power 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 7.3 Radiated Emissions (Below 1GHz) 7.3.1 E.U.T. Operation 7.3.2 Test Mode Description 7.3.3 Test Setup Diagram 7.3.4 Measurement Procedure and Data 7.3 Radiated Emissions (Below 1GHz) 7.3.1 E.U.T. Operation 7.3.2 Test Mode Description 7.3.3 Test Setup Diagram 7.3.4 Measurement Procedure and Data 7.3 Radiated Emissions (Below 1GHz) 7.3.1 Test Setup Diagram 7.3.2 Test Mode Description 7.3.3 Test Setup Diagram 7.3.4 Measurement Procedure and Data 7.4 Radiated Emissions (Above 1GHz)



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 5 of 311

7.4.2	Test Mode Description	37
7.4.3	Test Setup Diagram	
7.4.4	Measurement Procedure and Data	
7.5 R	adiated Emissions which fall in the restricted bands	64
7.5.1	E.U.T. Operation	64
7.5.2	Test Mode Description	65
7.5.3	Test Setup Diagram	66
7.5.4	Measurement Procedure and Data	67
7.6 C	Channel Move Time	138
7.6.1	E.U.T. Operation	138
7.6.2	Test Mode Description	139
7.6.3	Test Setup Diagram	139
7.6.4	Measurement Procedure and Data	140
7.7 D	outy Cycle	
7.7.1	E.U.T. Operation	
7.7.2	Test Mode Description	
7.7.3	Test Setup Diagram	142
7.7.4	Measurement Procedure and Data	
7.8 9	9% Bandwidth	
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 2	6dB Emission bandwidth	
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	
	finimum 6 dB bandwidth (5.725-5.85 GHz band)	
7.10.1	E.U.T. Operation	
7.10.2	Test Mode Description	
7.10.3	Test Setup Diagram	
7.10.4	Measurement Procedure and Data	
	eak Power spectrum density	
7.11.1	E.U.T. Operation	
7.11.2	Test Mode Description	
7.11.3	Test Setup Diagram	149
7.11.4	Measurement Procedure and Data	
	requency Stability	
7.12.1	E.U.T. Operation	
7.12.2	Test Mode Description	
7.12.3	Test Setup Diagram	
7.12.4	Measurement Procedure and Data	
	lon-occupancy period	
7.13.1	E.U.T. Operation	
7.13.2	Test Mode Description	
7.13.3	Test Setup Diagram	
7.13.4	Measurement Procedure and Data	
	Channel Closing Transmission Time	
7.14.1	E.U.T. Operation	155



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

Page:	6 of 311
-------	----------

		ŀ	-age:	6 01 311	
	7.14.2	Test Mode Description			156
	7.14.3	Test Setup Diagram			156
	7.14.4	Measurement Procedure and Data			157
8	Test Se	tup Photo			158
9	EUT Co	nstructional Details (EUT Photos)			158
10	Append	lix			159



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Report No.: SZCR241200460005

Page: 7 of 311

General Information

4.1 Details of E.U.T.

FUT December 1:	1 loo a #41	J Tarrein al			
EUT Description:	Unattended Terminal				
Model No.:	U2000				
Trade Mark:	Newland				
Hardware Version:	V1.1				
Software Version:	NDroid 6				
Power Supply:	DC 12V fro adapter	DC 12V from internal rechargeable battery which can be charge by AC/DC adapter			
	Adapter mo	odel: ADS-25SGP-12			
	802.11a:	20 MHz channel bandwidth			
WLAN Mode Supported:	802.11n:	20 MHz / 40 MHz channel bandwidth			
	802.11ac:	20 MHz / 40 MHz / 80 MHz channel bandwidth			
	5150MHz t	o 5250MHz			
On anation Francisco	5250MHz t	o 5350MHz			
Operation Frequency:	5470MHz to 5725MHz				
	5725MHz to 5850MHz				
	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)			
Modulation Type:	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)			
	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)			
	20MHz:	802.11a/n(HT20)/ac(VHT20)			
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)			
	80MHz:	z: 802.11ac(VHT80)			
Antenna Type:	□External	, ⊠Integrated			
	5150MHz t	o 5250MHz: 0.76dBi;			
	5250MHz t	o 5350MHz: 1.35dBi;			
	5470MHz t	o 5725MHz: 1.08dBi;			
Antenna Gain:	5725MHz to 5850MHz: 0.92dBi;				
	Note:				
	The antenr manufactur	na gain are derived from the gain information report provided by the rer.			
	⊠ SISO	802.11a/n/ac			
		CDD: 802.11a/n/ac: Tx & Rx			
Smart System:	☐ MIMO	STBC: 802.11n/ac: Tx & Rx			
		TXBF: 802.11n/ac: Tx & Rx			
	☐ Diversity	y 802.11a: Tx & Rx			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 8 of 311

TPC Function:	☐Support, ☐Not Support			
DFS Function:	□Master			
DFS Function.	☐Slave with radar detection ☐Slave without radar detection		ve without radar detection	
RF Cable:	4900MHz ~ 5250MHz(1.6dB)		5250MHz ~ 5350MHz(1.7dB)	
Rr Cable.	5470MHz ~ 5725MHz(1.8dB)		5725MHz ~ 5850MHz (2dB)	
Remark:				
As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.				

EUT 1	HDMI is not supported
EUT 2	HDMI is supported

4.2 Environment Parameter

T.E EIIVII OIIIII CIIC I GI	annotoi			
Environment Parameter		1020 mbar Selected Values During Tests		
Relative Humidity		44.5-60.5 % RH Ambient		
Value		Temperature(°C)		Voltage(V)
NTNV		20~25		24
LTLV		-20		12
LTHV		-20		48
HTLV		70		12
HTHV		70		48
Note:				
NV:Normal Voltage	LV:Low Extreme Test Vo	Itage	HV:High Extrer	ne Test Voltage
NT:Normal Temperature LT:Low Extreme Test Ter		mperature	HT:High Extrer	ne Test Temperature



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 9 of 311

4.3 Description of Support Units					
Description	Manufacturer	Model No.	Serial No.	FCC ID	
Router	NETGEAR	R7800	SZ-WRG-A-072	PY315100319	

4.4 Measurement Uncertainty

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

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

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



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> Page: 10 of 311

4.5 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.

4.6 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.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 11 of 311

Equipment List 5

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2024-01-30	2025-01-29
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
Measurement Software	AUDIX	e3 V8.2014- 6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

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

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2024-03-26	2025-03-25
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2024-08-14	2025-08-13
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2024-03-27	2025-03-26
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
Measurement Software	AUDIX	e3 V8.2014-6-	N/A	N/A	N/A



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 12 of 311

		27			
Coaxial Cable	SGS	N/A	SEM029-01	2024-07-06	2025-07-05

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14

Radiated Emissions wh	Radiated Emissions which fall in the restricted bands				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 13 of 311

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

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

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



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

> Page: 14 of 311

Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

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

EUT Antenna:

The antenna is a Integrated Antenna, and the connection port is fixed with glue, and the antenna cannot be replaced.

5150MHz to 5250MHz: 0.76dBi:* 5250MHz to 5350MHz: 1.35dBi;* 5470MHz to 5725MHz: 1.08dBi;* 5725MHz to 5850MHz: 0.92dBi;*

*Note:

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

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



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> Page: 15 of 311

6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

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

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

EUT Details:

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



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Report No.: SZCR241200460005

Page: 16 of 311

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:

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

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 44.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

7.1.2 Test IV	7.1.2 Test Mode Description			
Pre-scan / Final test	Mode Code	Description		
Final test	07	Charge + TX mode (U-NII-1)_Keep the EUT1 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.		
Final test	08	Charge + TX mode (U-NII-1)_Keep the EUT2 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.		
Pre-scan	09	Charge + TX mode (U-NII-2A)_Keep the EUT1 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.		
Pre-scan	10	Charge + TX mode (U-NII-2A)_Keep the EUT2 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.		
Pre-scan	11	Charge + TX mode (U-NII-2C)_Keep the EUT1 in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type		



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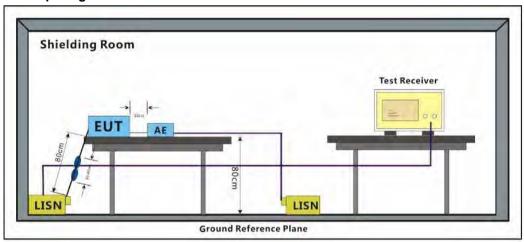
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 17 of 311

		have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	Charge + TX mode (U-NII-2C)_Keep the EUT2 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	Charge + TX mode (U-NII-3)_Keep the EUT1 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	14	Charge + TX mode (U-NII-3)_Keep the EUT2 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram





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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

> 18 of 311 Page:

7.1.4 Measurement Procedure and Data

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

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



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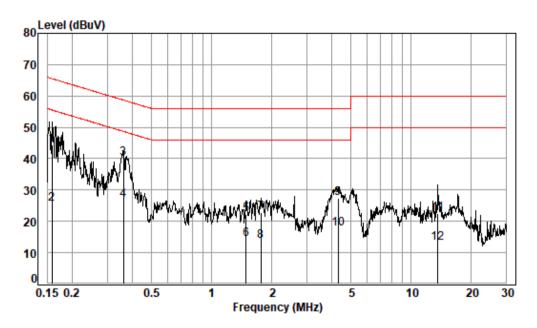


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 19 of 311

Test Mode: 07; Line: Live line



Site : Shielding Room

Condition: Line Job No. : 04600AT

Test mode: 07

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	-	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.1590	0.06	10.18	34.05	44.29	65.52	-21.23	QP
2		0.1590	0.06	10.18	15.24	25.48	55.52	-30.04	Average
3	*	0.3615	0.07	9.74	30.49	40.30	58.69	-18.39	QP
4	*	0.3615	0.07	9.74	16.88	26.69	48.69	-22.00	Average
5		1.4874	0.10	9.58	12.44	22.12	56.00	-33.88	QP
6		1.4874	0.10	9.58	4.73	14.41	46.00	-31.59	Average
7		1.7623	0.10	9.58	13.15	22.83	56.00	-33.17	QP
8		1.7623	0.10	9.58	4.10	13.78	46.00	-32.22	Average
9		4.2918	0.12	9.66	17.60	27.38	56.00	-28.62	QP
10		4.2918	0.12	9.66	7.94	17.72	46.00	-28.28	Average
11		13.5509	0.24	9.86	12.49	22.59	60.00	-37.41	QP
12		13.5509	0.24	9.86	2.99	13.09	50.00	-36.91	Average



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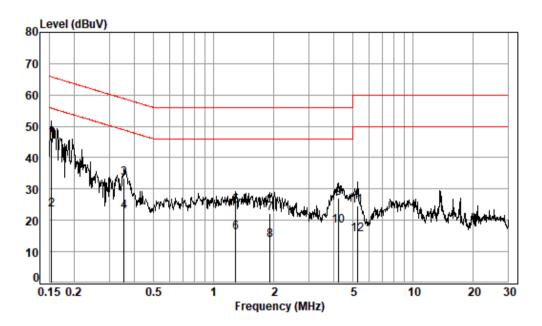


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 20 of 311

Test Mode: 07; Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 04600AT

Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1540	0.06	10.14	35.96	46.16	65.78	-19.62	QP
2	0.1540	0.06	10.14	13.31	23.51	55.78	-32.27	Average
3	0.3558	0.07	9.75	23.70	33.52	58.83	-25.31	QP
4 *	0.3558	0.07	9.75	12.86	22.68	48.83	-26.15	Average
5	1.2892	0.09	9.54	15.04	24.67	56.00	-31.33	QP
6	1.2892	0.09	9.54	6.62	16.25	46.00	-29.75	Average
7	1.9182	0.10	9.55	12.46	22.11	56.00	-33.89	QP
8	1.9182	0.10	9.55	3.90	13.55	46.00	-32.45	Average
9	4.2242	0.12	9.55	17.47	27.14	56.00	-28.86	QP
10	4.2242	0.12	9.55	8.52	18.19	46.00	-27.81	Average
11	5.2491	0.13	9.57	14.98	24.68	60.00	-35.32	QP
12	5.2491	0.13	9.57	5.76	15.46	50.00	-34.54	Average



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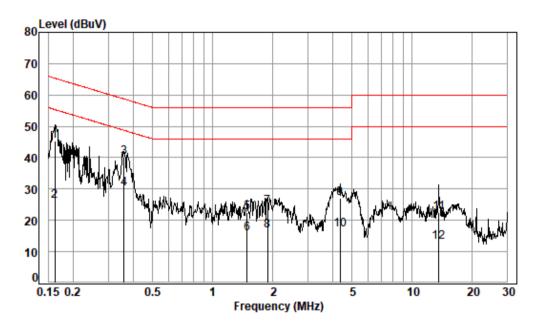


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 21 of 311

Test Mode: 08; Line: Live line



Site : Shielding Room

Condition: Line Job No. : 04600AT

Test mode: 08

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.1624	0.06	10.17	35.10	45.33	65.34	-20.01	QP
2		0.1624	0.06	10.17	15.84	26.07	55.34	-29.27	Average
3	*	0.3596	0.07	9.74	30.41	40.22	58.74	-18.52	QP
4	*	0.3596	0.07	9.74	20.23	30.04	48.74	-18.70	Average
5		1.4874	0.10	9.58	12.75	22.43	56.00	-33.57	QP
6		1.4874	0.10	9.58	6.24	15.92	46.00	-30.08	Average
7		1.8879	0.10	9.58	14.51	24.19	56.00	-31.81	QP
8		1.8879	0.10	9.58	7.00	16.68	46.00	-29.32	Average
9		4.3376	0.12	9.66	17.34	27.12	56.00	-28.88	QP
10		4.3376	0.12	9.66	7.12	16.90	46.00	-29.10	Average
11		13.5509	0.24	9.86	12.34	22.44	60.00	-37.56	QP
12		13.5509	0.24	9.86	3.05	13.15	50.00	-36.85	Average



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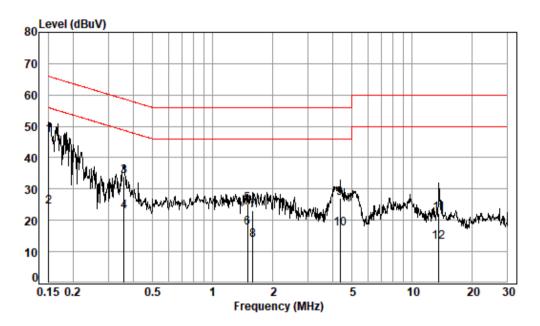


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 22 of 311

Test Mode: 08; Line: Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 04600AT

Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1508	0.06	10.15	36.85	47.06	65.96	-18.90	QP
2	0.1508	0.06	10.15	14.04	24.25	55.96	-31.71	Average
3	0.3596	0.07	9.75	24.19	34.01	58.74	-24.73	QP
4 *	0.3596	0.07	9.75	12.94	22.76	48.74	-25.98	Average
5	1.4953	0.10	9.55	15.67	25.32	56.00	-30.68	QP
6	1.4953	0.10	9.55	7.96	17.61	46.00	-28.39	Average
7	1.5935	0.10	9.55	13.41	23.06	56.00	-32.94	QP
8	1.5935	0.10	9.55	3.95	13.60	46.00	-32.40	Average
9	4.3376	0.12	9.55	17.31	26.98	56.00	-29.02	QP
10	4.3376	0.12	9.55	7.58	17.25	46.00	-28.75	Average
11	13.5509	0.24	9.78	12.19	22.21	60.00	-37.79	QP
12	13.5509	0.24	9.78	2.99	13.01	50.00	-36.99	Average



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 23 of 311

7.2 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a) Test Method: ANSI C63.10 (2013) Section 12.3

Limit:

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar 23.2 °C

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	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



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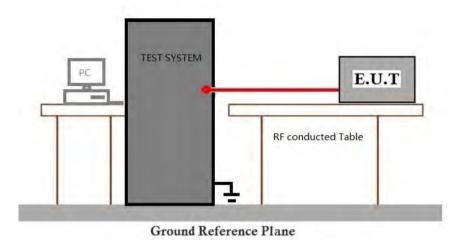


SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

> Page: 24 of 311

		is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	16	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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Report No.: SZCR241200460005

Page: 25 of 311

7.3 Radiated Emissions (Below 1GHz)

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

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

Measurement Distance: 10m

Limit:

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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 50.9 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

7.5.2 Test IV	7.3.2 Test mode Description			
Pre-scan / Final test	Mode Code	Description		
Final test	07	Charge + TX mode (U-NII-1)_Keep the EUT1 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.		
Final test	08	Charge + TX mode (U-NII-1)_Keep the EUT2 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.		
Pre-scan	09	Charge + TX mode (U-NII-2A)_Keep the EUT1 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.		
Pre-scan	10	Charge + TX mode (U-NII-2A)_Keep the EUT2 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.		



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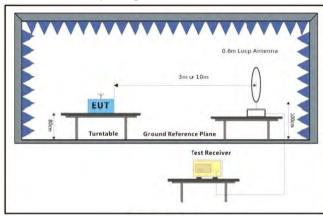
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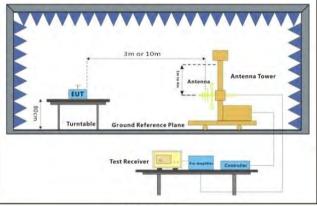
Report No.: SZCR241200460005

Page: 26 of 311

Pre-scan	11	Charge + TX mode (U-NII-2C)_Keep the EUT1 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	12	Charge + TX mode (U-NII-2C)_Keep the EUT2 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	13	Charge + TX mode (U-NII-3)_Keep the EUT1 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	14	Charge + TX mode (U-NII-3)_Keep the EUT2 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/ac/ 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

> 27 of 311 Page:

7.3.4 Measurement Procedure and Data

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

Remark:

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



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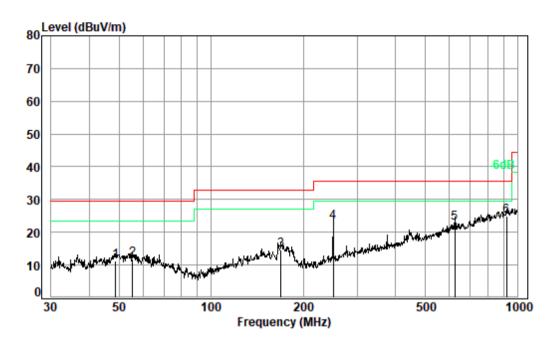


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 28 of 311

Test Mode: 07; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 04600AT/04601AT

Test Mode: 07 : EUT1

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	48.843	25.24	18.06	0.53	32.50	11.33	29.50	-18.17	QP
2	55.415	25.81	17.86	0.56	32.48	11.75	29.50	-17.75	QP
3	169.005	28.89	17.23	1.03	32.50	14.65	33.00	-18.35	QP
4	250.301	38.32	15.91	1.30	32.45	23.08	35.60	-12.52	QP
5	625.078	28.77	24.59	2.16	32.75	22.77	35.60	-12.83	QP
6 рр	922.516	26.25	27.81	2.66	31.64	25.08	35.60	-10.52	QP



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 29 of 311

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

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

Note:

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

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

The level at 3m test distance is below:

	The level at one test distance is below.									
3M HORIZO	3M HORIZONTAL									
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark			
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB				
48.843	11.33	3.69	12.29	21.79	40.00	-18.21	QP			
55.415	11.75	3.87	12.89	22.21	40.00	-17.79	QP			
169.005	14.65	5.40	18.00	25.11	43.50	-18.39	QP			
250.301	23.08	14.26	47.52	33.54	46.00	-12.46	QP			
625.078	22.77	13.76	45.85	33.23	46.00	-12.77	QP			
922.516	25.08	17.95	59.82	35.54	46.00	-10.46	QP			



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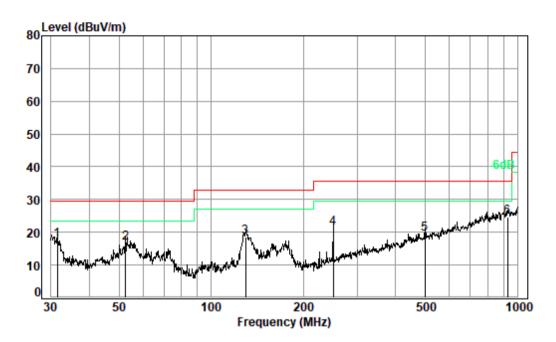


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 30 of 311

Test Mode: 07; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 04600AT/04601AT

Test Mode: 07 : EUT1

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	31.510	33.74	15.83	0.43	32.50	17.50	29.50	-12.00	QP
2	52.575	30.37	18.21	0.55	32.49	16.64	29.50	-12.86	QP
3	129.468	33.99	16.21	0.87	32.50	18.57	33.00	-14.43	QP
4	250.301	36.39	15.91	1.30	32.45	21.15	35.60	-14.45	QP
5	499.425	28.40	21.87	1.85	32.70	19.42	35.60	-16.18	QP
6 pp	929.008	25.76	27.89	2.66	31.60	24.71	35.60	-10.89	OP



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 31 of 311

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

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

Note:

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

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

The level at 3m test distance is below:

3M VERTIC	3M VERTICAL									
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark			
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB				
31.510	17.50	7.50	25.00	27.96	40.00	-12.04	QP			
52.575	16.64	6.79	22.64	27.10	40.00	-12.90	QP			
129.468	18.57	8.48	28.27	29.03	43.50	-14.47	QP			
250.301	21.15	11.42	38.05	31.61	46.00	-14.39	QP			
499.425	19.42	9.35	31.18	29.88	46.00	-16.12	QP			
929.008	24.71	17.20	57.33	35.17	46.00	-10.83	QP			



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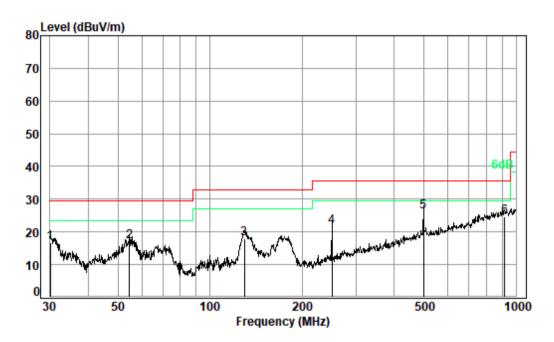


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 32 of 311

Test Mode: 08; Polarity: Vertical



Condition: 10m VERTICAL Job No. : 04600AT/04601AT

Test Mode: 08 : EUT2

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	30.105	33.44	15.41	0.42	32.50	16.77	29.50	-12.73	QP
2	54.643	31.08	17.97	0.56	32.48	17.13	29.50	-12.37	QP
3	129.468	33.50	16.21	0.87	32.50	18.08	33.00	-14.92	QP
4	250.301	36.71	15.91	1.30	32.45	21.47	35.60	-14.13	QP
5 pp	499.425	35.04	21.87	1.85	32.70	26.06	35.60	-9.54	QP
6	919.287	25.98	27.76	2.65	31.66	24.73	35.60	-10.87	OP



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Report No.: SZCR241200460005

Page: 33 of 311

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

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

Note:

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

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

The level at 3m test distance is below:

3M VERTIC	AL						
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB	
30.105	16.77	6.89	22.98	27.23	40.00	-12.77	QP
54.643	17.13	7.19	23.95	27.59	40.00	-12.41	QP
129.468	18.08	8.02	26.72	28.54	43.50	-14.96	QP
250.301	21.47	11.84	39.48	31.93	46.00	-14.07	QP
499.425	26.06	20.09	66.97	36.52	46.00	-9.48	QP
919.287	24.73	17.24	57.46	35.19	46.00	-10.81	QP



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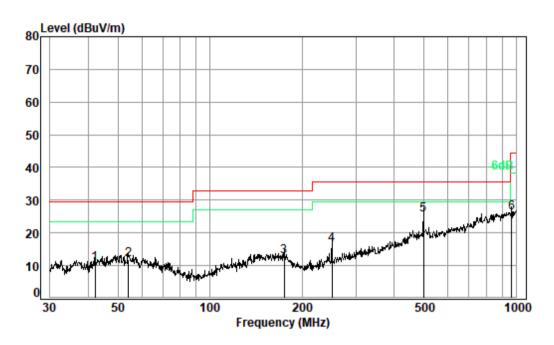


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 34 of 311

Test Mode: 08; Polarity: Horizontal



Condition: 10m HORIZONTAL Job No. : 04600AT/04601AT

Test Mode: 08 : EUT2

		Read	Ant	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-						-ID- 3//-	-ID- 1//		
	MHZ	авич	dB/m	ав	ав	abuv/m	abuv/m	dB	
1	42.154	25.47	17.08	0.49	32.50	10.54	29.50	-18.96	QP
2	54.071	25.59	18.06	0.56	32.49	11.72	29.50	-17.78	QP
3	175.037	27.67	16.56	1.05	32.50	12.78	33.00	-20.22	QP
4	250.301	31.78	15.91	1.30	32.45	16.54	35.60	-19.06	QP
5 pp	499.425	34.62	21.87	1.85	32.70	25.64	35.60	-9.96	QP
6	968.934	26.92	27.84	2.69	31.32	26.13	44.40	-18.27	OP



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 35 of 311

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

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

Note:

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

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

The level at 3m test distance is below:

3M HORIZO	3M HORIZONTAL									
Frequency	Level @ 10m	Level @	Level @	Limit @ 3m	Limit @ 3m	Over Limit	Remark			
MHz	dBuV/m	10m (uV/m)	3m (uV/m)	dBuV/m	dBuV/m	dB				
42.154	10.54	3.37	11.22	21.00	40.00	-19.00	QP			
54.071	11.72	3.85	12.85	22.18	40.00	-17.82	QP			
175.037	12.78	4.36	14.52	23.24	43.50	-20.26	QP			
250.301	16.54	6.71	22.38	27.00	46.00	-19.00	QP			
499.425	25.64	19.14	63.81	36.10	46.00	-9.90	QP			
968.934	26.13	20.25	67.51	36.59	54.00	-17.41	QP			



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> Page: 36 of 311

7.4 Radiated Emissions (Above 1GHz)

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

Test Method: ANSI C63.10 (2013) Section 6.6

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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 60.5 % RH Atmospheric Pressure: 1020 mbar



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

Page: 37 of 311

7.4.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	Description
Pre-scan	03	Charge + TX mode (U-NII-1)_Keep the EUT1 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	04	Charge + TX mode (U-NII-2A)_Keep the EUT1 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	05	Charge + TX mode (U-NII-2C)_Keep the EUT1 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	06	Charge + TX mode (U-NII-3)_Keep the EUT1 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	Charge + TX mode (U-NII-1)_Keep the EUT2 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode (U-NII-2A)_Keep the EUT2 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	09	Charge + TX mode (U-NII-2C)_Keep the EUT2 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	10	Charge + TX mode (U-NII-3)_Keep the EUT2 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.



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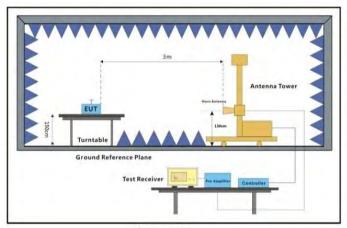


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 38 of 311

7.4.3 Test Setup Diagram



Above 1GHz



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

> Page: 39 of 311

7.4.4 Measurement Procedure and Data

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

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- 4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
- 6.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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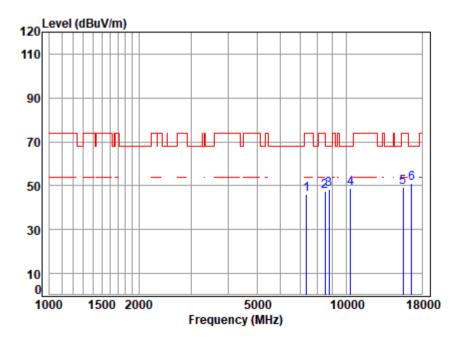


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 40 of 311

Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT

Mode : 5180 TX RSE

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7352.564	11.50	36.79	56.42	54.05	45.92	74.00	-28.08	peak
2	8496.769	12.29	38.31	55.45	52.45	47.60	74.00	-26.40	peak
3	8742.585	12.16	38.51	55.23	53.03	48.47	68.20	-19.73	peak
4	10360.000	13.60	39.00	53.88	50.04	48.76	68.20	-19.44	peak
5	15540.000	17.00	38.56	54.14	47.95	49.37	74.00	-24.63	peak
6	nn16608 340	17 64	39 22	54 18	48 26	50 94	68 20	-17 26	neak



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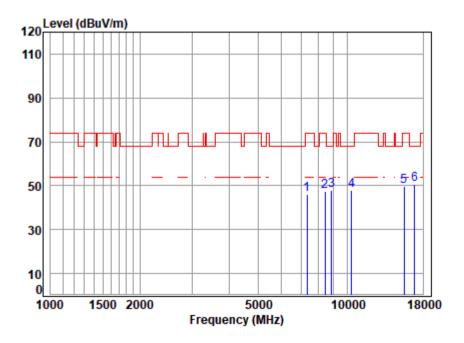


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 41 of 311

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 04600AT/04601AT

Mode : 5180 TX RSE

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11.51	36.76	56.44	54.08	45.91	74.00	-28.09	peak
2	8410.663	11.70	38.56	55.53	52.67	47.40	74.00	-26.60	peak
3	8850.100	12.23	38.50	55.13	52.40	48.00	68.20	-20.20	peak
4	10360.000	13.60	39.00	53.88	49.07	47.79	68.20	-20.41	peak
5	15540.000	17.00	38.56	54.14	48.38	49.80	74.00	-24.20	peak
6	pp16881,220	18.04	39.60	54.26	47.14	50.52	68.20	-17.68	neak



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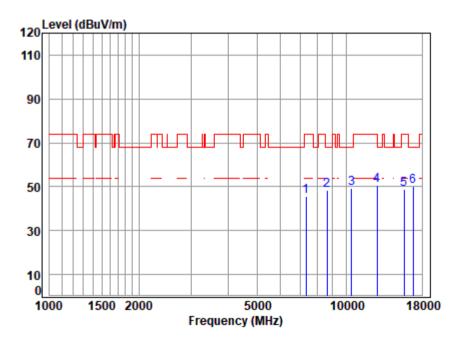


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 42 of 311

Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT

Mode : 5220 TX RSE

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7330.131	11 [1	36 76	E6 11	E2 00	/E 83	74 00	20 10	nook
1	/550.151	11.51	30.70	30.44	55.55	45.02	74.00	-20.10	peak
2	8627.584	12.00	38.44	55.34	53.37	48.47	68.20	-19.73	peak
3	10440.000	13.63	39.04	53.84	50.35	49.18	68.20	-19.02	peak
4	12692.390	15.52	40.19	54.28	49.29	50.72	74.00	-23.28	Peak
5	15660.000	17.23	38.56	54.10	47.36	49.05	74.00	-24.95	peak
6	pp16812.580	17.55	39.60	54.24	47.50	50.41	68.20	-17.79	peak



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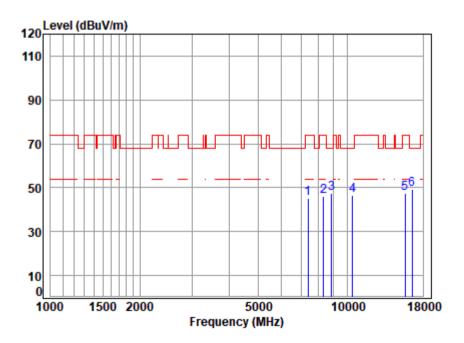


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 43 of 311

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL Job No : 04600AT/04601AT

Mode : 5220 TX RSE

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4	7367 550	11 50	26.76	FC 41	F2 24	45.00	74.00	20.04	
Τ	7367.558	11.50	36.76	56.41	55.21	45.00	74.00	-28.94	peak
2	8316.953	11.74	38.17	55.61	51.77	46.07	74.00	-27.93	peak
3	8850.100	12.23	38.50	55.13	51.83	47.43	68.20	-20.77	peak
4	10440.000	13.63	39.04	53.84	47.81	46.64	68.20	-21.56	peak
5	15660.000	17.23	38.56	54.10	45.98	47.67	74.00	-26.33	peak
6	pp16557.660	17.69	39.07	54.17	46.72	49.31	68.20	-18.89	peak



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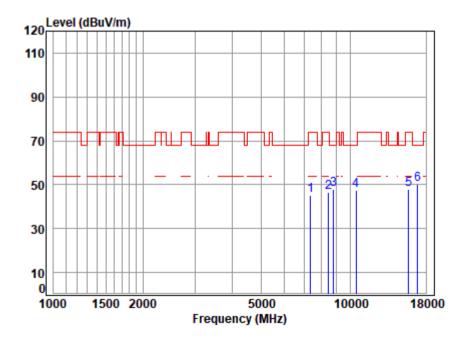


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 44 of 311

Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5240 TX RSE

: 5G WIFI 11A

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7352.564	11.50	36.79	56.42	53.37	45.24	74.00	-28.76	peak
2	8462.222	12.05	38.38	55.48	51.50	46.45	74.00	-27.55	peak
3	8778.277	12.22	38.50	55.20	52.56	48.08	68.20	-20.12	peak
4	10480.000	13.64	39.08	53.81	48.38	47.29	68.20	-20.91	peak
5	15720.000	17.22	38.58	54.08	46.00	47.72	74.00	-26.28	peak
6	pp16864.040	17.92	39.60	54.26	46.76	50.02	68.20	-18.18	peak



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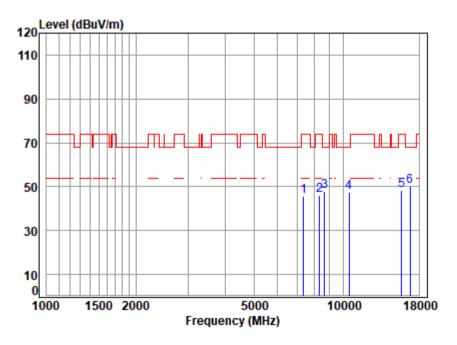


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 45 of 311

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL Job No : 04600AT/04601AT

Mode : 5240 TX RSE

: 5G WIFI 11A

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7337.601	11.51	36.78	56.43	53.88	45.74	74.00	-28.26	peak
2	8316.953	11.74	38.17	55.61	51.83	46.13	74.00	-27.87	peak
3	8653.987	12.03	38.42	55.31	52.73	47.87	68.20	-20.33	peak
4	10480.000	13.64	39.08	53.81	48.48	47.39	68.20	-20.81	peak
5	15720.000	17.22	38.58	54.08	46.75	48.47	74.00	-25.53	peak
6	pp16795.470	17.47	39.59	54.24	47.29	50.11	68.20	-18.09	neak



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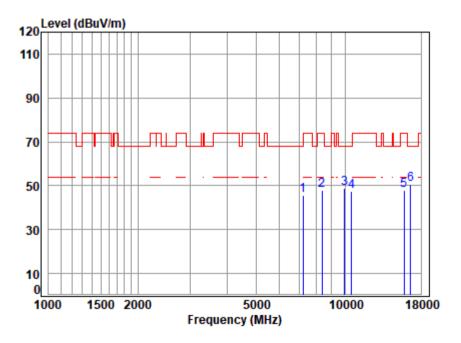


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 46 of 311

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5260 TX RSE

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7218.988	11 50	26 60	E6 E2	E2 01	AE E1	69.20	22 60	noole
1	7218.988	11.52	30.00	30.32	55.91	45.51	00.20	-22.09	peak
2	8359.419	11.68	38.68	55.58	52.92	47.70	74.00	-26.30	peak
3	9949.918	12.90	38.90	54.15	51.13	48.78	68.20	-19.42	peak
4	10520.000	13.63	39.14	53.79	48.38	47.36	68.20	-20.84	peak
5	15780.000	17.08	38.52	54.07	46.25	47.78	74.00	-26.22	peak
6	pp16591.430	17.66	39.17	54.18	48.15	50.80	68.20	-17.40	peak



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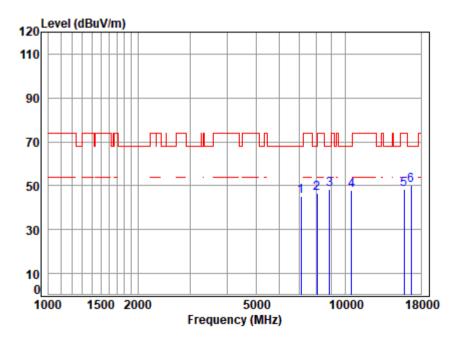


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 47 of 311

Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 04600AT/04601AT

Mode : 5260 TX RSE

: 5G WIFI 11A

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	dB	
1	7087.840	11.91	36.38	56.63	53.71	45.37	68.20	-22.83	peak
2	8042.043	11.51	37.80	55.86	53.17	46.62	74.00	-27.38	peak
3	8850.100	12.23	38.50	55.13	52.87	48.47	68.20	-19.73	peak
4	10520.000	13.63	39.14	53.79	48.79	47.77	68.20	-20.43	peak
5	15780.000	17.08	38.52	54.07	46.72	48.25	74.00	-25.75	peak
6	pp16693,140	17.59	39.39	54.21	47.39	50.16	68.20	-18-04	neak



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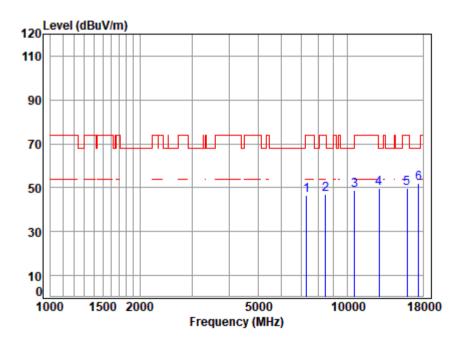


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 48 of 311

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT

Mode : 5300 TX RSE

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7285.470	11.51	36.67	56.47	54.74	46.45	74.00	-27.55	peak
2	8445.000	11.94	38.42	55.50	52.24	47.10	74.00	-26.90	peak
3	10600.000	13.59	39.30	53.74	49.53	48.68	68.20	-19.52	peak
4	12822.330	15.50	40.32	54.38	48.52	49.96	68.20	-18.24	Peak
5	15900.000	17.28	38.70	54.03	47.89	49.84	74.00	-24.16	peak
6	pp17387.310	18.10	40.37	54.38	48.01	52.10	68.20	-16.10	Peak



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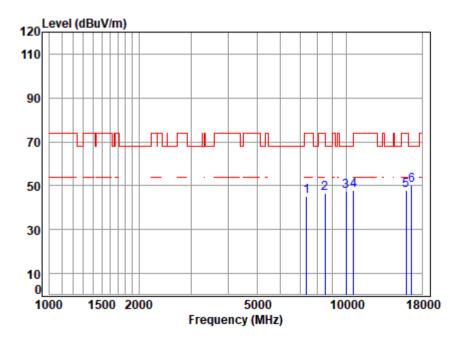


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 49 of 311

Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL Job No : 04600AT/04601AT

Mode : 5300 TX RSE

: 5G WIFI 11A

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7337.601	11.51	36.78	56.43	53.46	45.32	74.00	-28.68	peak
2	8496.769	12.29	38.31	55.45	51.61	46.76	74.00	-27.24	peak
3	10000.720	13.01	38.90	54.10	49.57	47.38	68.20	-20.82	peak
4	10600.000	13.59	39.30	53.74	48.98	48.13	68.20	-20.07	peak
5	15900.000	17.28	38.70	54.03	46.07	48.02	74.00	-25.98	peak
6	pp16608_340	17.64	39.22	54.18	47.64	50.32	68.20	-17.88	neak



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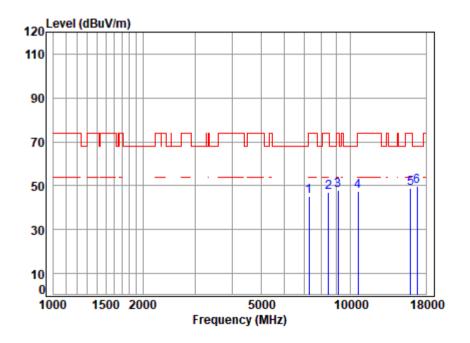


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 50 of 311

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5320 TX RSE

: 5G WIFI 11A

Cable Ant Preamp Read limit Over Loss Factor Factor Level Line Limit Remark Freq Level MHz dB/m dB dBuV dBuV/m dBuV/m dB dB 7270.644 11.51 36.64 56.48 53.43 45.10 74.00 -28.90 peak 8453.606 11.99 38.39 55.49 52.21 47.10 74.00 -26.90 peak 9115.418 12.15 38.63 54.90 52.15 48.03 74.00 -25.97 peak 13.77 39.34 48.22 47.61 74.00 -26.39 peak 10640.000 53.72 15960.000 17.20 38.64 54.01 46.90 48.73 74.00 -25.27 peak 6 pp16778.370 17.49 39.56 54.23 46.94 49.76 68.20 -18.44 peak



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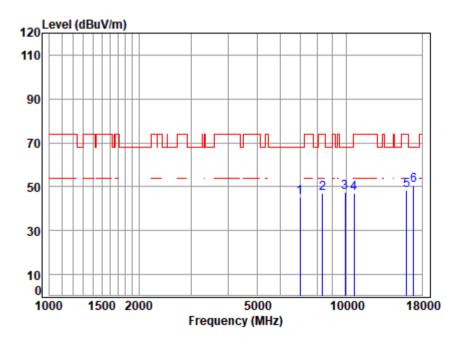


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 51 of 311

Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL Job No : 04600AT/04601AT Mode : 5320 TX RSE

: 5G WIFI 11A

Cable Ant Preamp Read limit Over Loss Factor Factor Level Line Limit Remark Freq Level MHz dB/m dBuV dBuV/m dBuV/m dB dΒ dB 6987.484 11.37 36.17 56.70 54.42 45.26 68.20 -22.94 peak 1 8333.913 11.72 38.44 55.60 52.43 46.99 74.00 -27.01 peak 2 3 9899.373 12.80 38.89 54.19 50.02 47.52 68.20 -20.68 peak 4 10640.000 13.77 39.34 53.72 47.71 47.10 74.00 -26.90 peak 5 15960.000 17.20 38.64 54.01 46.72 48.55 74.00 -25.45 peak 6 pp16881.220 18.04 39.60 54.26 47.28 50.66 68.20 -17.54 peak



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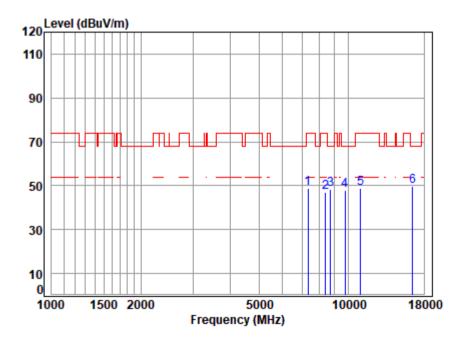


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 52 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5500 TX RSE

: 5G WIFI 11A

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
7330.131	11.51	36.76	56.44	57.00	48.83	74.00	-25.17	peak
8376.465	11.66	38.65	55.56	52.39	47.14	74.00	-26.86	peak
8715.911	12.12	38.57	55.26	52.75	48.18	68.20	-20.02	peak
9769.155	12.97	38.60	54.31	50.83	48.09	68.20	-20.11	peak
11000.000	14.17	39.40	53.50	48.97	49.04	74.00	-24.96	peak
pp16500_000	17.74	38.90	54.15	47.18	49.67	68.20	-18.53	neak



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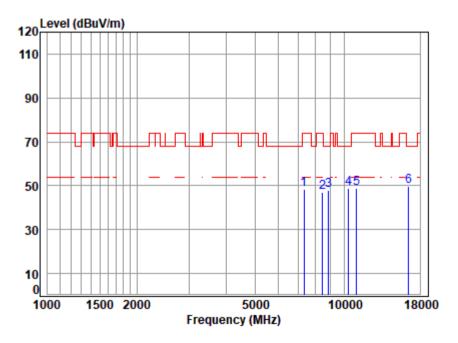


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 53 of 311

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



Condition: 3m VERTICAL Job No : 04600AT/04601AT

Mode : 5500 TX RSE

: 5G WIFI 11A

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
							-ID- 3//		
	MHz	dB	ab/m	dB	авич	abuv/m	abuv/m	dB	
1	7330.131	11.51	36.76	56.44	56.68	48.51	74.00	-25.49	peak
2	8462.222	12.05	38.38	55.48	52.14	47.09	74.00	-26.91	peak
3	8859.119	12.23	38.52	55.13	52.26	47.88	68.20	-20.32	peak
4	10353.130	13.60	39.00	53.89	49.90	48.61	68.20	-19.59	peak
5	11000.000	14.17	39.40	53.50	48.60	48.67	74.00	-25.33	peak
6	pp16500.000	17.74	38.90	54.15	47.31	49.80	68.20	-18.40	neak



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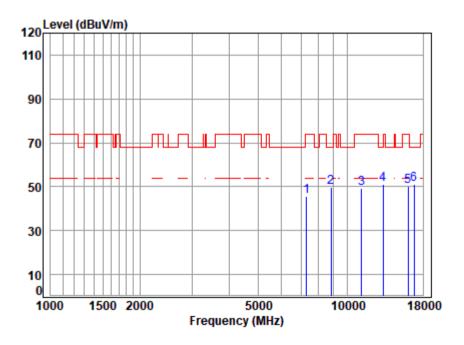


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 54 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5600 TX RSE

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7285.470	11.51	36.67	56.47	53.88	45.59	74.00	-28.41	Peak
2	8832.090	12.24	38.50	55.15	53.94	49.53	68.20	-18.67	peak
3	11200.000	14.76	39.60	53.56	48.51	49.31	74.00	-24.69	peak
4	pp13193.290	15.66	40.21	54.48	49.78	51.17	68.20	-17.03	Peak
5	16026.680	17.13	38.57	54.01	48.32	50.01	74.00	-23.99	Peak
6	16800 000	17 46	39 60	54 24	48 23	51 05	68 20	-17 15	neak



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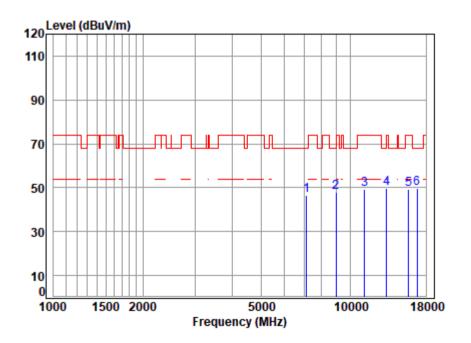


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 55 of 311

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



Condition: 3m VERTICAL Job No : 04600AT/04601AT

Mode : 5600 TX RSE

: 5G WIFI 11A

	Frea			Preamp Factor					Remark
	MHz	uв	ub/m	dB	авич	abuv/m	abuv/m	dB	
1	7116.776	11.91	36.43	56.61	54.86	46.59	68.20	-21.61	Peak
2	8968.067	12.17	38.54	55.03	52.35	48.03	68.20	-20.17	peak
3	11200.000	14.76	39.60	53.56	48.47	49.27	74.00	-24.73	peak
4	13260.650	16.20	40.26	54.47	47.92	49.91	74.00	-24.09	Peak
5	15735.520	17.18	38.56	54.08	47.61	49.27	74.00	-24.73	Peak
6	pp16800.000	17.46	39.60	54.24	46.72	49.54	68.20	-18.66	neak



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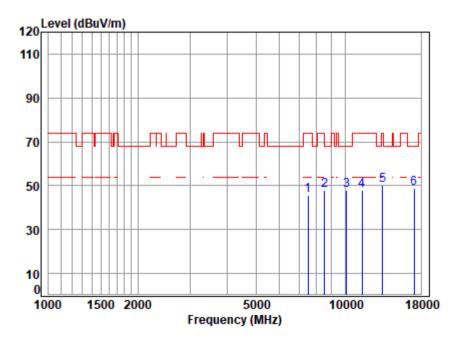


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 56 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5700 TX RSE

: 5G WIFI 11A

Cable Ant Preamp Read limit Over Loss Factor Factor Level Line Limit Remark Freq Level MHz dB/m dB dBuV dBuV/m dBuV/m dB dB 7496.243 11.24 36.80 56.30 53.87 45.61 74.00 -28.39 peak 8505.428 12.29 38.30 55.45 52.88 48.02 68.20 -20.18 peak 10113.400 13.25 39.10 54.03 49.57 47.89 68.20 -20.31 peak 14.21 39.70 53.62 47.41 47.70 74.00 -26.30 peak 11400.000 50.28 74.00 -23.72 Peak 13341.940 16.28 40.30 54.47 48.17 6 pp17100.000 18.47 39.80 54.32 44.98 48.93 68.20 -19.27 peak



1

2 3

4

5

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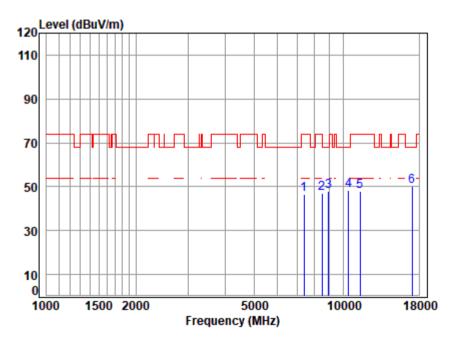


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 57 of 311

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



Condition: 3m VERTICAL Job No : 04600AT/04601AT

Mode : 5700 TX RSE

: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7375.065	11.50	36.75	56.40	54.55	46.40	74.00	-27.60	peak
2	8496.769	12.29	38.31	55.45	51.98	47.13	74.00	-26.87	peak
3	8913.427	12.21	38.57	55.08	52.29	47.99	68.20	-20.21	peak
4	10416.590	13.62	39.02	53.85	49.67	48.46	68.20	-19.74	peak
5	11400.000	14.21	39.70	53.62	47.76	48.05	74.00	-25.95	peak
6	pp17100.000	18.47	39.80	54.32	46.04	49.99	68.20	-18.21	neak



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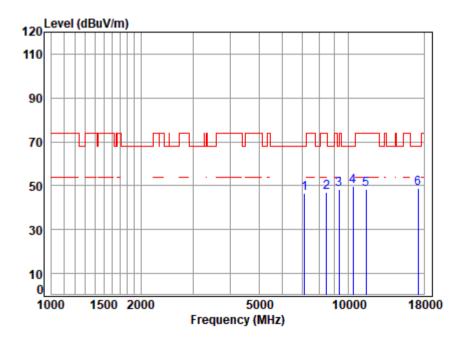


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 58 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5745 TX RSE

: 5.8G 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	7138.557	11.81	36.48	56.59	54.76	46.46	68.20	-21.74	peak
2	8445.000	11.94	38.42	55.50	52.23	47.09	74.00	-26.91	peak
3	9331.487	12.21	38.80	54.70	51.99	48.30	74.00	-25.70	peak
4	pp10374.240	13.61	39.00	53.88	50.84	49.57	68.20	-18.63	peak
5	11490.000	14.97	39.61	53.65	47.23	48.16	74.00	-25.84	peak
6	17235.000	17.83	40.01	54.35	45.55	49.04	68.20	-19.16	peak



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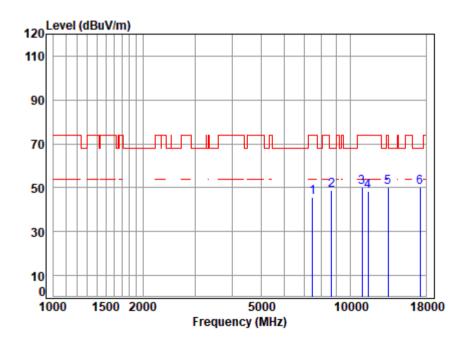


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 59 of 311

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



Condition: 3m VERTICAL Job No : 04600AT/04601AT

Mode : 5745 TX RSE

: 5.8G 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	
4	7450 463	44.34	36.00	56.33	F4 00	45.03	74.00	20.47	
1	7458.163	11.34	36.80	56.33	54.02	45.83	74.00	-28.1/	peak
2	8653.987	12.03	38.42	55.31	53.53	48.67	68.20	-19.53	peak
3	10949.680	14.06	39.35	53.53	50.27	50.15	74.00	-23.85	peak
4	11490.000	14.97	39.61	53.65	47.51	48.44	74.00	-25.56	peak
5	13423.730	15.89	40.25	54.46	48.54	50.22	68.20	-17.98	Peak
6	pp17235.000	17.83	40.01	54.35	46.85	50.34	68.20	-17.86	neak



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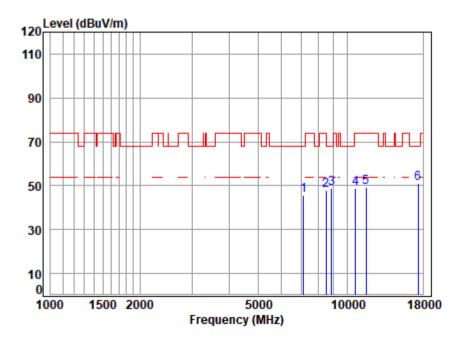


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 60 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5785 TX RSE

: 5.8G 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	7116.776	11.91	36.43	56.61	54.07	45.80	68.20	-22.40	peak
2	8488.119	12.23	38.32	55.46	53.02	48.11	74.00	-25.89	peak
3	8841.090	12.24	38.50	55.14	53.11	48.71	68.20	-19.49	peak
4	10685.250	13.97	39.39	53.69	49.27	48.94	74.00	-25.06	peak
5	11570.000	14.78	39.60	53.67	48.51	49.22	74.00	-24.78	peak
6	pp17355.000	18.00	40.31	54.37	47.01	50.95	68.20	-17.25	peak



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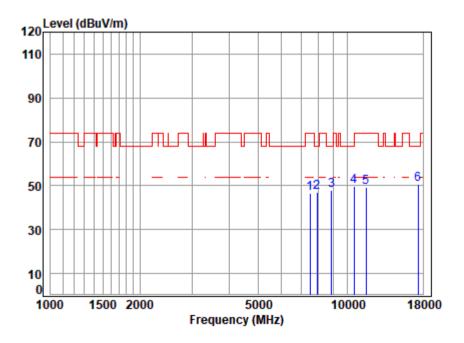


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 61 of 311

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



Condition: 3m VERTICAL Job No : 04600AT/04601AT

Mode : 5785 TX RSE

: 5.8G 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	7496.243	11 24	36 80	56 30	54 60	16 31	7/ 00	-27 66	neak	
									•	
	7928.178								•	
3	8850.100	12.23	38.50	55.13	52.44	48.04	68.20	-20.16	peak	
4	10566.200	13.61	39.23	53.76	50.53	49.61	68.20	-18.59	peak	
5	11570.000	14.78	39.60	53.67	48.54	49.25	74.00	-24.75	peak	
6	pp17355,000	18.00	40.31	54.37	46.66	50.60	68.20	-17.60	peak	



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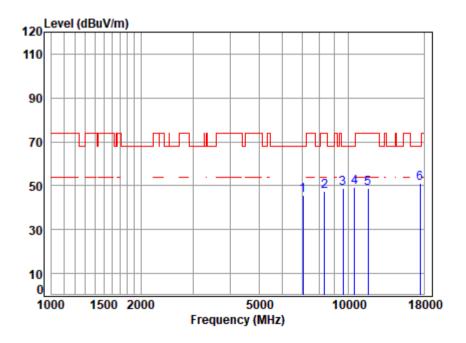


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 62 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5825 TX RSE

: 5.8G 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	
L	7051.834	11.69	36.30	56.66	54.46	45.79	68.20	-22.41	peak
)	8333.913	11.72	38.44	55.60	52.69	47.25	74.00	-26.75	peak
3	9611.236	12.46	38.78	54.45	51.96	48.75	68.20	-19.45	peak
ļ	10512.520	13.63	39.13	53.79	50.09	49.06	68.20	-19.14	peak
,	11650.000	14.69	39.55	53.69	48.22	48.77	74.00	-25.23	peak
5	pp17475.000	18.35	40.78	54.40	46.48	51.21	68.20	-16.99	peak



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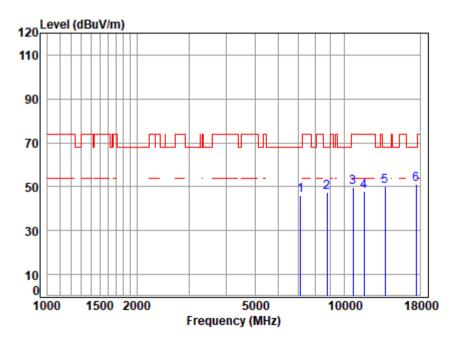


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 63 of 311

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



Condition: 3m VERTICAL Job No : 04600AT/04601AT

Mode : 5825 TX RSE

: 5.8G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	7138.557	11.81	36.48	56.59	54.23	45.93	68.20	-22.27	peak
	8769.341								•
3	10696.140	14.02	39.40	53.68	50.15	49.89	74.00	-24.11	peak
4	11650.000	14.69	39.55	53.69	47.22	47.77	74.00	-26.23	peak
	13713.950								•
6	nn17475 000	18 35	40 78	54 40	46 30	51 03	68 20	-17 17	neak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 64 of 311

7.5 Radiated Emissions which fall in the restricted bands

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

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

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

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

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

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

7.5.1 E.U.T. Operation

Operating Environment:

22.2 °C Humidity: 60.5 % RH Temperature: Atmospheric Pressure: 1020 mbar



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 65 of 311

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	Charge + TX mode (U-NII-1)_Keep the EUT1 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	04	Charge + TX mode (U-NII-2A)_Keep the EUT1 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	05	Charge + TX mode (U-NII-2C)_Keep the EUT1 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	06	Charge + TX mode (U-NII-3)_Keep the EUT1 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	07	Charge + TX mode (U-NII-1)_Keep the EUT2 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	Charge + TX mode (U-NII-2A)_Keep the EUT2 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	09	Charge + TX mode (U-NII-2C)_Keep the EUT2 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	10	Charge + TX mode (U-NII-3)_Keep the EUT2 in Charge 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/ac 20/40/80, Only the data of worst case is recorded in the report.



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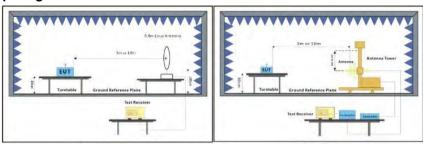


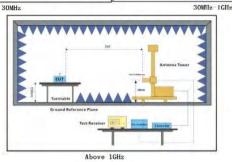
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

66 of 311 Page:

7.5.3 Test Setup Diagram







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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

> 67 of 311 Page:

7.5.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Remark 2.The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- Remark 3. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥1/T (Duty cycle<98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.



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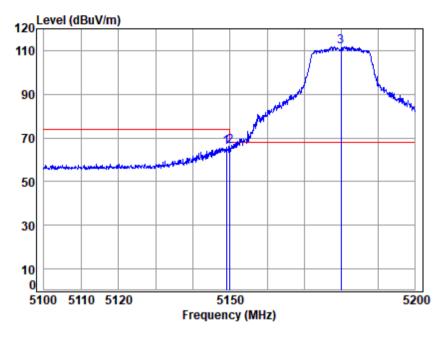


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 68 of 311

Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5180 Band edge

: 5G WIFI 11A

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5149.057								•
2	5149.980	10.14	32.40	30.84	54.36	66.06	74.00	-7.94	peak
3 pp	5180.000	10.25	32.46	30.83	100.10	111.98	68.20	43.78	peak



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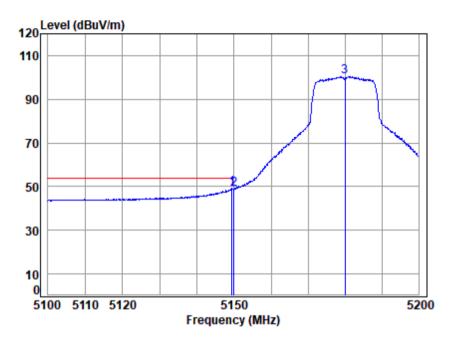


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 69 of 311

Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5180 Band edge

: 5G WIFI 11A

	. 50 WITT 11A										
		Cable	Ant	Preamp	Read		Limit	0ver			
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
pp	5149.458	10.14	32.40	30.84	37.37	49.07	54.00	-4.93	Average		
	5149.958	10.14	32.40	30.84	37.07	48.77	54.00	-5.23	Average		
	5180.000	10.26	32.46	30.83	88.55	100.44			Average		



1

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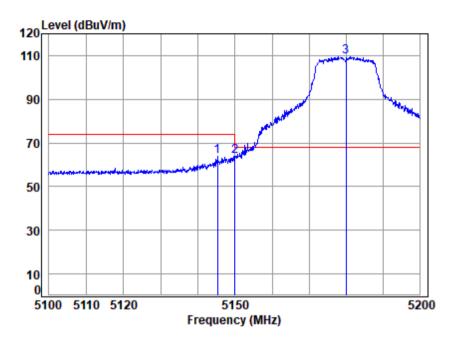


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 70 of 311

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5145.259	10.12	32.39	30.84	52.01	63.68	74.00	-10.32	Peak
2	5149.980	10.14	32.40	30.84	52.40	64.10	74.00	-9.90	Peak
3 рр	5180.000	10.25	32.46	30.83	97.45	109.33	68.20	41.13	Peak



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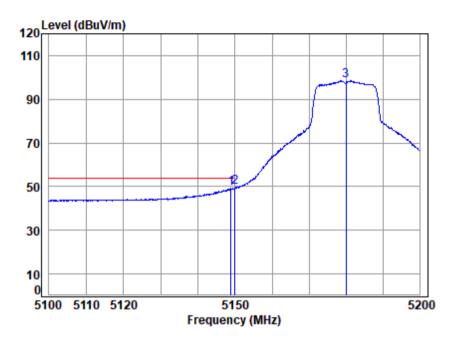


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 71 of 311

Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5180 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5148.857	10.14	32.40	30.84	37.44	49.14	54.00	-4.86	Average
pp	5149.980	10.14	32.40	30.84	38.14	49.84	54.00	-4.16	Average
	5180.000	10.25	32.46	30.83	86.53	98.41			Average



2

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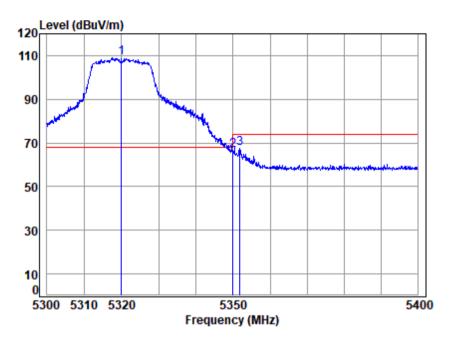


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 72 of 311

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5320 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	96.61	108.93	68.20	40.73	peak
2	5350.020	10.45	32.80	30.76	54.17	66.66	74.00	-7.34	peak
3	5351.867	10.46	32.80	30.76	55.03	67.53	74.00	-6.47	peak



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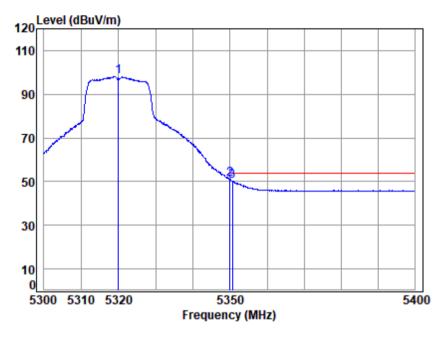


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Report No.: SZCR241200460005

Page: 73 of 311

Test Mode: 08; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5320 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2 pp	5320.000 5350.020 5350.667	10.45	32.80	30.76	38.51	51.00	54.00	-3.00	Average



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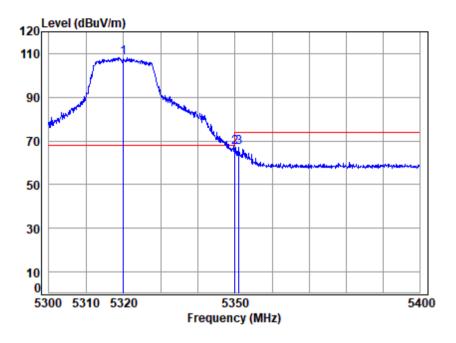


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 74 of 311

Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5320 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		
pp	5320.000	10.35	32.74	30.77	95.82	108.14	68.20	39.94	Peak	
	5350.020	10.45	32.80	30.76	54.77	67.26	74.00	-6.74	Peak	
	5351,066	10.45	32.80	30.76	54.67	67.16	74.00	-6.84	Peak	



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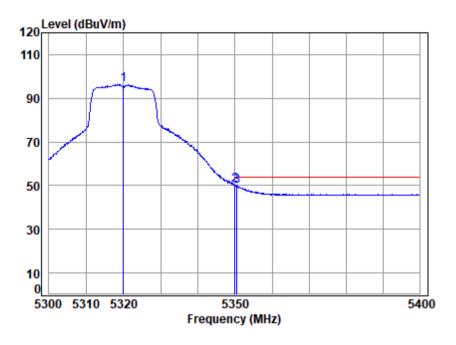


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 75 of 311

Test Mode: 08; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5320 Band edge

: 5G WIFI 11A

	. 50	MILT I	14							
		Cable	Ant	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	5320.000	10.35	32.74	30.77	83.88	96.20			Average	
2 pp	5350.020	10.45	32.80	30.76	37.80	50.29	54.00	-3.71	Average	
	5350.566								_	



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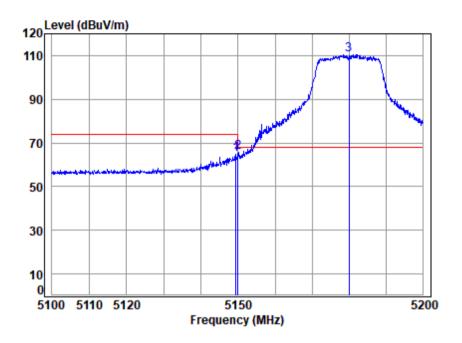


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 76 of 311

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5180 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	10.14	32.40	30.84	52.96	64.66	74.00	-9.34	peak
2	5149.980	10.14	32.40	30.84	54.00	65.70	74.00	-8.30	peak
3 рр	5180.000	10.25	32.46	30.83	98.66	110.54	68.20	42.34	peak



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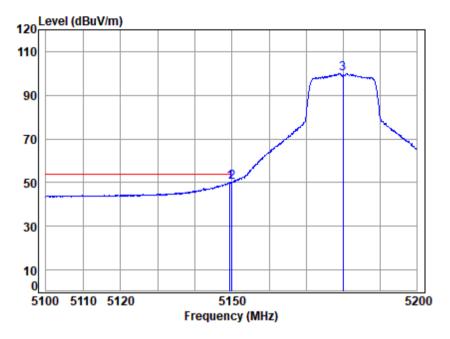


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 77 of 311

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5180 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5149.357	10.14	32.40	30.84	38.48	50.18	54.00	-3.82	Average
pp	5149.980	10.14	32.40	30.84	38.68	50.38	54.00	-3.62	Average
	5180.000	10.25	32.46	30.83	88.08	99.96			Average



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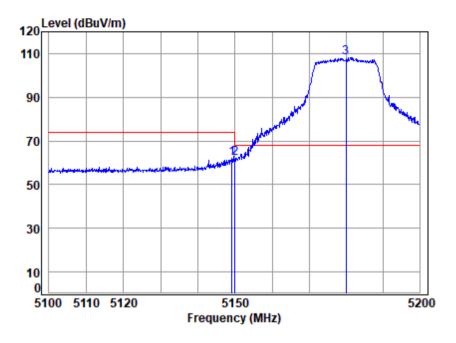


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 78 of 311

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5180 Band edge

: 5G WIFI 11N20

		Freq			Preamp Factor					Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
		5149.157	10.14	32.40	30.84	50.16	61.86	74.00	-12.14	Peak	
)		5149.980	10.14	32.40	30.84	50.29	61.99	74.00	-12.01	Peak	
,	pp	5180.000	10.25	32.46	30.83	96.37	108.25	68.20	40.05	Peak	



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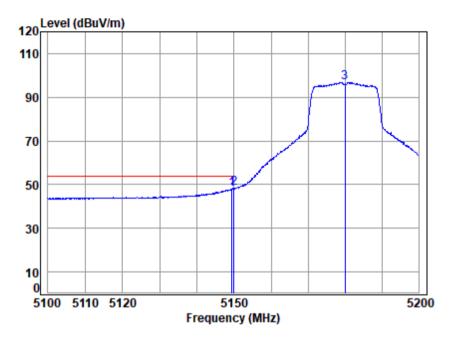


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 79 of 311

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5180 Band edge

: 5G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.458	10.14	32.40	30.84	36.33	48.03	54.00	-5.97	Average
2 pp	5149.980	10.14	32.40	30.84	36.56	48.26	54.00	-5.74	Average
3	5180.000	10.25	32.46	30.83	84.97	96.85			Average



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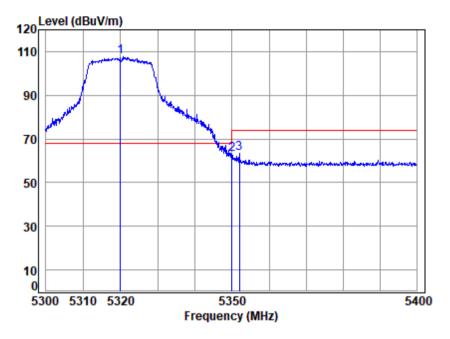


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 80 of 311

Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5320 Band edge

: 5G WIFI 11N20

	. 50	****	11120						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5320.000	10.35	32.74	30.77	95.45	107.77	68.20	39.57	peak
2	5350.020	10.45	32.80	30.76	50.33	62.82	74.00	-11.18	peak
3	5351.967	10.46	32.80	30.76	50.96	63.46	74.00	-10.54	peak



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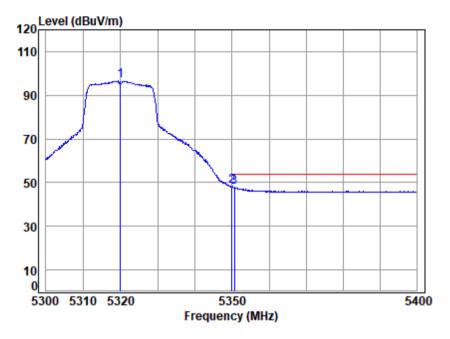


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 81 of 311

Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5320 Band edge

: 5G WIFI 11N20

		Freq			Preamp Factor					Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5320.000	10.35	32.74	30.77	84.23	96.55			Average
2	pp	5350.020	10.45	32.80	30.76	35.88	48.37	54.00	-5.63	Average
3		5350.667	10.45	32.80	30.76	35.22	47.71	54.00	-6.29	Average



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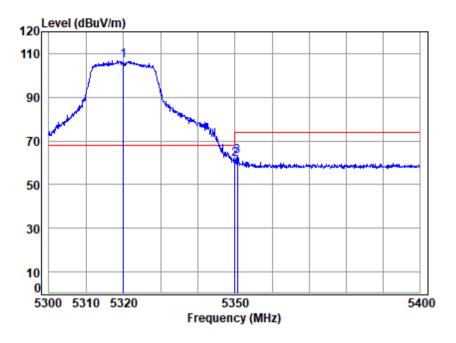


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 82 of 311

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5320 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 pp	5320.000	10.35	32.74	30.77	94.25	106.57	68.20	38.37	Peak
2	5350.020	10.45	32.80	30.76	49.02	61.51	74.00	-12.49	Peak
3	5350 667	10 45	32 80	30 76	50 37	62 86	74 99	-11 14	Peak



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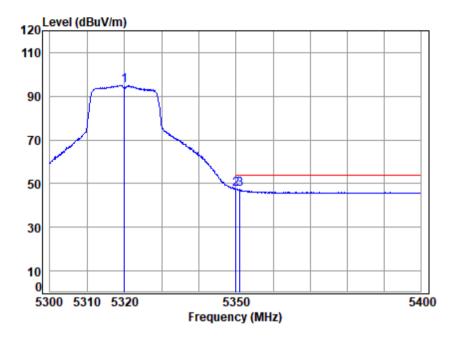


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 83 of 311

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5320 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		5320.000	10.35	32.74	30.77	82.60	94.92			Average	
2	pp	5350.020	10.45	32.80	30.76	35.07	47.56	54.00	-6.44	Average	
3		5351.066	10.45	32.80	30.76	34.76	47.25	54.00	-6.75	Average	



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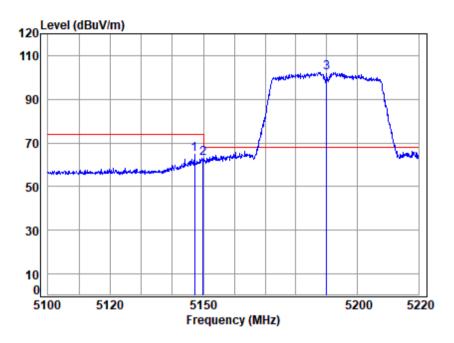


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 84 of 311

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5190 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5147.187 5149.980 5190.000	10.14	32.40	30.84	51.21	62.91	74.00	-11.09	peak



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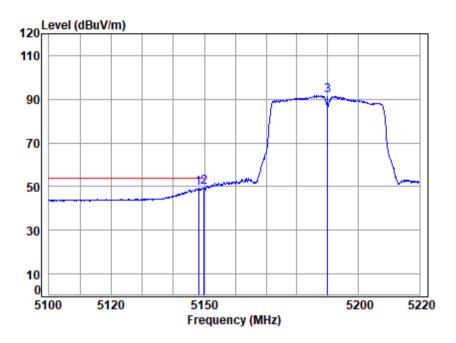


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 85 of 311

Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5190 Band edge

: 5G WIFI 11N40

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5148.144	10.13	32.40	30.84	37.66	49.35	54.00	-4.65	Average
2	pp	5149.980	10.14	32.40	30.84	37.83	49.53	54.00	-4.47	Average
3		5190.000	10.29	32.48	30.82	79.82	91.77			Average



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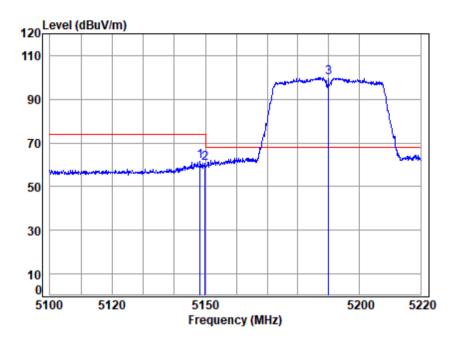


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 86 of 311

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT 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	
	5148.264	10.13	32.40	30.84	49.91	61.60	74.00	-12.40	Peak
	5149.980	10.14	32.40	30.84	49.00	60.70	74.00	-13.30	Peak
nn	5190 000	10 29	32 48	30 82	88 14	100 09	68 20	31 89	Peak



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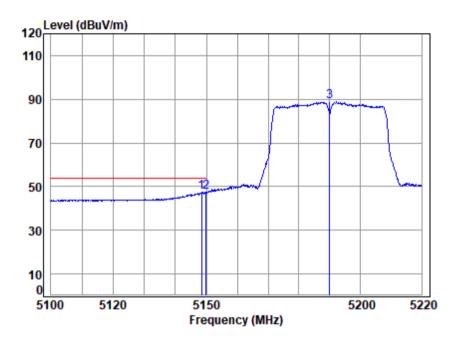


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 87 of 311

Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT 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 pp	5148.503	10.13	32.40	30.84	35.72	47.41	54.00	-6.59	Average	
2	5149.980	10.14	32.40	30.84	35.70	47.40	54.00	-6.60	Average	
3	5190.000	10.29	32.48	30.82	76.95	88.90			Average	



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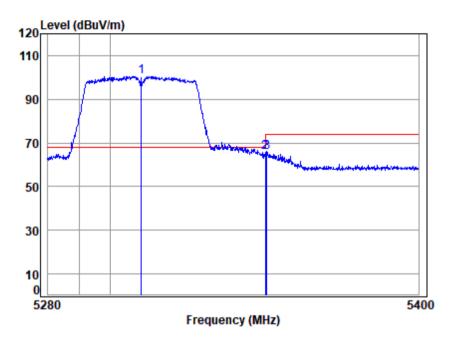


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 88 of 311

Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5310 Band edge

: 5G WIFT 11N40

	. 50	MATIT T	TIVTO							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp	5310.000	10.31	32.72	30.78	88.35	100.60	68.20	32.40	peak	
2	5350.020	10.45	32.80	30.76	53.04	65.53	74.00	-8.47	peak	
3	5350.594	10.45	32.80	30.76	53.28	65.77	74.00	-8.23	peak	



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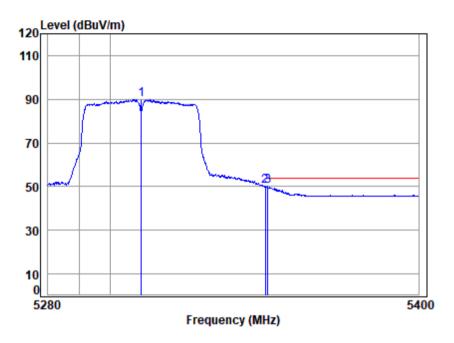


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 89 of 311

Test Mode: 08; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5310 Band edge

56 WTET 11N40

		. 50	MILT I	TIV40							
			Cable	Ant	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		5310.000	10.31	32.72	30.78	77.56	89.81			Average	
2	pp	5350.020	10.45	32.80	30.76	37.91	50.40	54.00	-3.60	Average	
3		5350.834	10.45	32.80	30.76	37.55	50.04	54.00	-3.96	Average	



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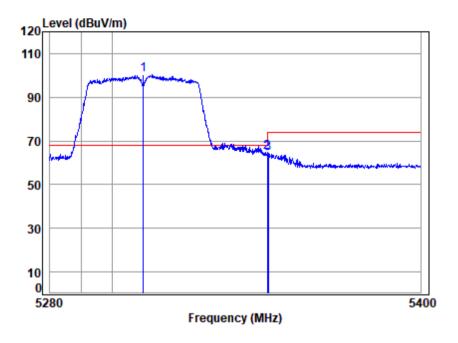


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 90 of 311

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5310 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					
-	MHz	——dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB	
pp	5310.000 5350.020								
	5350 474	10 45	32 80	30 76	51 92	64 41	74 00	_9 59	Peak



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3

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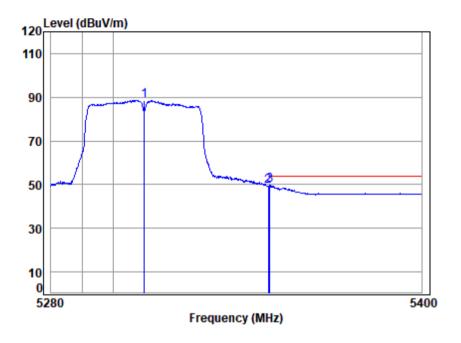


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 91 of 311

Test Mode: 08; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5310 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					Remark
•	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	10.31	32.72	30.78	76.38	88.63			Average
2	5350.020	10.45	32.80	30.76	36.97	49.46	54.00	-4.54	Average
3 pp	5350.594	10.45	32.80	30.76	37.32	49.81	54.00	-4.19	Average



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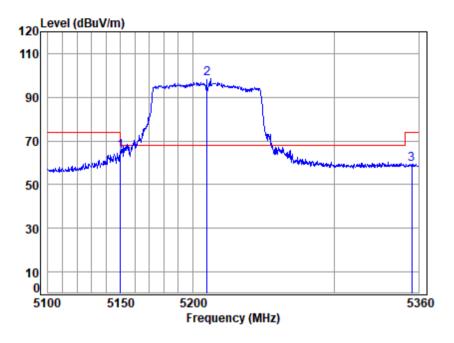


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 92 of 311

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5210 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.947	10.14	32.40	30.84	53.75	65.45	74.00	-8.55	peak
2 p	p 5210.000	10.32	32.52	30.82	86.46	98.48	68.20	30.28	peak
3	5355.205	10.47	32.80	30.76	47.00	59.51	74.00	-14.49	peak



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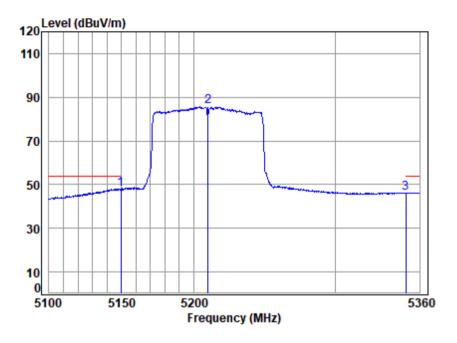


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 93 of 311

Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5210 Band edge

: 5G WIFI 11AC80

		Freq			Preamp Factor					Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	рр	5149.435	10.14	32.40	30.84	36.33	48.03	54.00	-5.97	Average	
		5210.000	10.32	32.52	30.82	73.64	85.66			Average	
3		5350.148	10.45	32.80	30.76	33.77	46.26	54.00	-7.74	Average	



2

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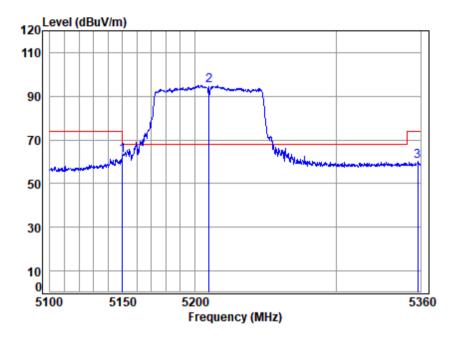


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 94 of 311

Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5210 Band edge

: 5G WIFI 11AC80

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5149.690	10.14	32.40	30.84	51.14	62.84	74.00	-11.16	Peak
2	pp	5210.000	10.32	32.52	30.82	82.80	94.82	68.20	26.62	Peak
3		5358.135	10.48	32.80	30.76	47.70	60.22	74.00	-13.78	Peak



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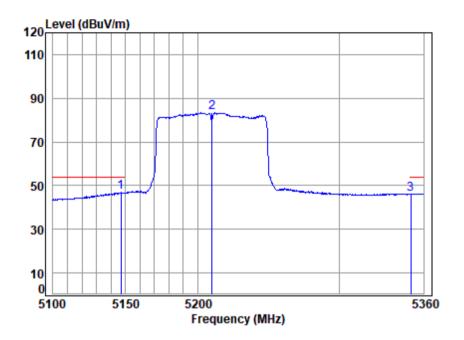


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Report No.: SZCR241200460005

Page: 95 of 311

Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5210 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5146.619								_
	5210.000	10.32	32.52	30.82	71.57	83.59			Average
	5350.680	10.45	32.80	30.76	33.73	46.22	54.00	-7.78	Average



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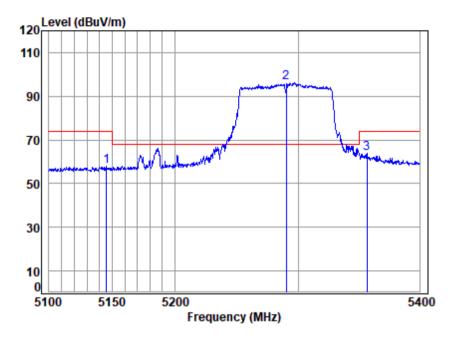


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Report No.: SZCR241200460005

Page: 96 of 311

Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5290 Band edge

· 5G WIFT 11AC80

		. 50	MILI I	THCOO							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
L		5145.384	10.12	32.39	30.84	46.47	58.14	74.00	-15.86	peak	
		5290.000								-	
3		5356.348	10.47	32.80	30.76	51.15	63.66	74.00	-10.34	peak	



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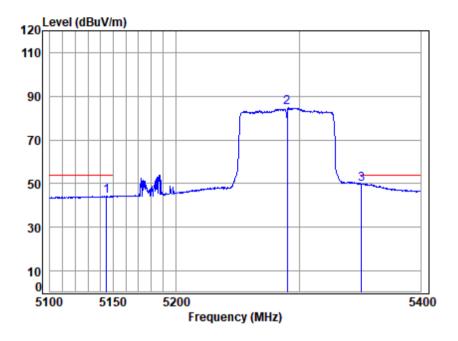


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 97 of 311

Test Mode: 08; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5290 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	5144.502									
pp	5290.000 5351.146								_	



2

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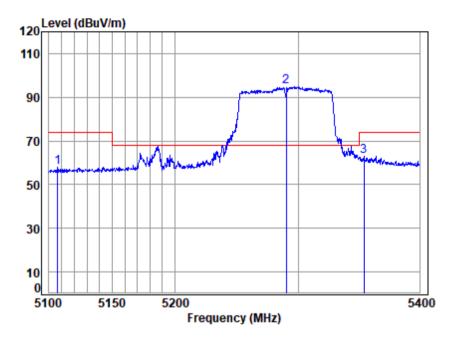


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 98 of 311

Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5290 Band edge

: 5G WIFI 11AC80

	_			Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5107.001	9.98	32.31	30.86	46.65	58.08	74.00	-15.92	Peak
pp	5290.000	10.28	32.68	30.78	82.55	94.73	68.20	26.53	Peak
	5353.899	10.46	32.80	30.76	50.69	63.19	74.00	-10.81	Peak



1 2

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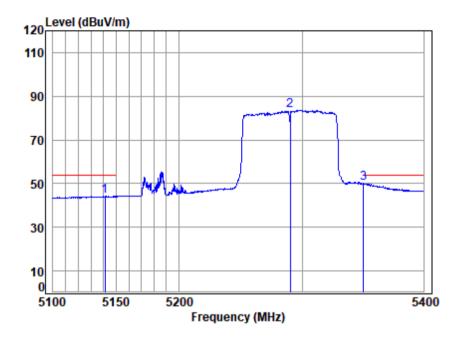


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 99 of 311

Test Mode: 08; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5290 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	5140.975								_
	5290.000	10.28	32.68	30.78	71.52	83.70			Average
pp	5350.229	10.45	32.80	30.76	37.58	50.07	54.00	-3.93	Average



2

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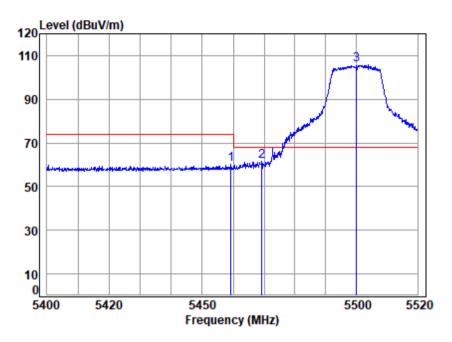


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 100 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5500 Band edge

: 5G WIFI 11A

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5459.311	10.60	32.90	30.72	47.54	60.32	74.00	-13.68	peak
2		5469.279	10.59	32.90	30.71	48.88	61.66	68.20	-6.54	peak
3	pp	5500.000	10.58	32.90	30.70	92.92	105.70	68.20	37.50	peak



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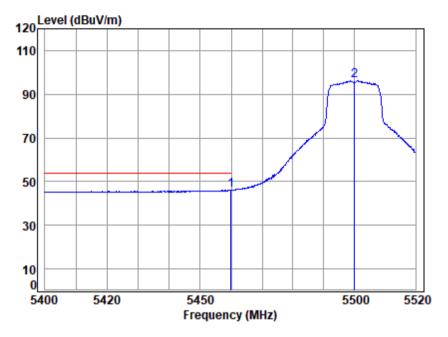


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 101 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5500 Band edge

: 5G WIFI 11A

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Frea Level Level MHz dB/m dBuV dBuV/m dBuV/m 1 pp 5459.910 10.60 32.90 30.72 33.33 46.11 54.00 -7.89 Average 5500.000 10.58 32.90 30.70 83.43 96.21 ----- Average



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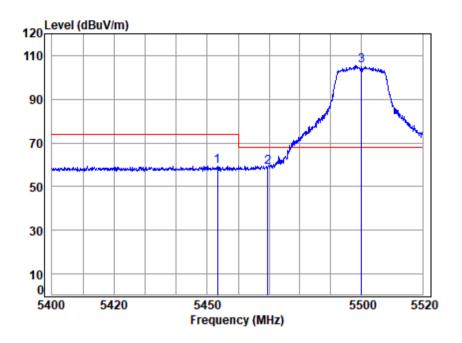


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 102 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5500 Band edge

: 5G WIFI 11A

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	5453.314	10.60	32.90	30.72	46.66	59.44	74.00	-14.56	Peak	
2	5469.519	10.59	32.90	30.71	46.14	58.92	68.20	-9.28	Peak	
;	pp 5500.000	10.58	32.90	30.70	92.55	105.33	68.20	37.13	Peak	



2

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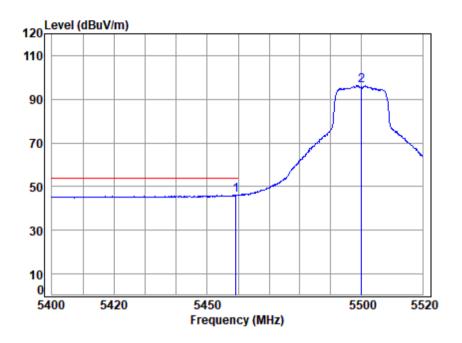


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 103 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5500 Band edge

: 5G WIFI 11A

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

MHz dB/m dBuV dBuV/m dBuV/m

1 pp 5459.311 10.60 32.90 30.72 33.31 46.09 54.00 -7.91 Average 5500.000 10.58 32.90 30.70 83.51 96.29 ----- Average



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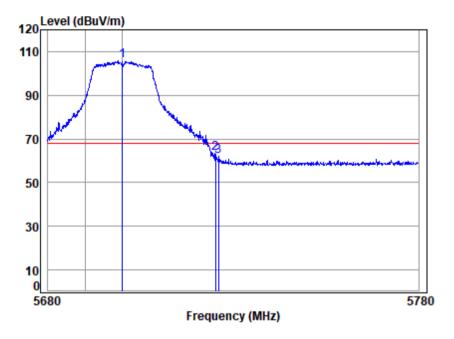


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 104 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5700 Band edge

: 5G WIFI 11A

	Freq		Preamp Factor			Remark	
-		 	dB	 	 		_
	5700.000					•	
	5725.000 5725.883						



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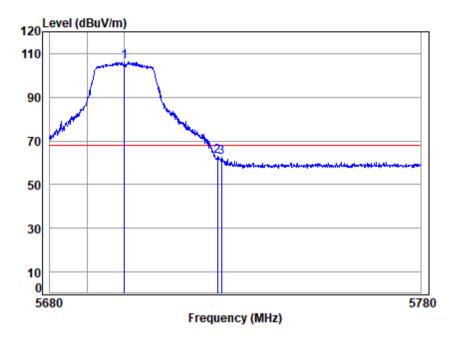


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 105 of 311

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



Condition: 3m VERTICAL Job No : 04600AT/04601AT

Mode : 5700 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 pp	5700.000	10.56	33.20	30.62	93.00	106.14	68.20	37.94	Peak	
	5725.000									
	5726.083									



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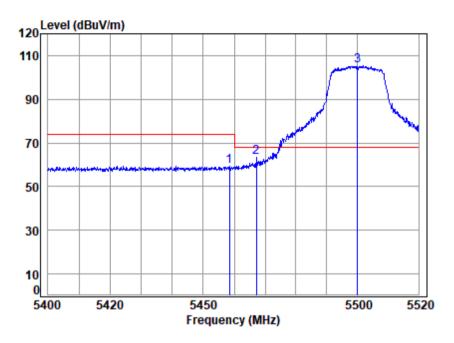


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 106 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5500 Band edge

: 5G WIFI 11N20

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
		5458.471	10.60	32.90	30.72	46.63	59.41	74.00	-14.59	peak
		5467.235	10.59	32.90	30.71	50.82	63.60	68.20	-4.60	peak
,	pp	5500.000	10.58	32.90	30.70	92.74	105.52	68.20	37.32	peak



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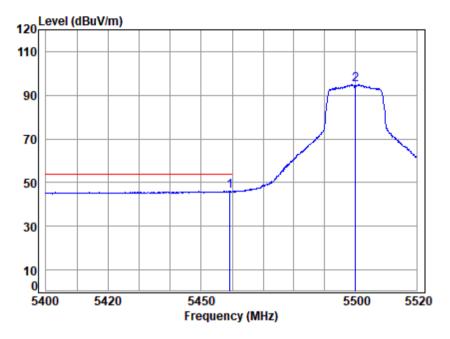


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 107 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5500 Band edge

: 5G WIFI 11N20

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Frea Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 1 pp 5459.190 10.60 32.90 30.72 33.21 45.99 54.00 -8.01 Average 5500.000 10.58 32.90 30.70 82.02 94.80 ----- Average



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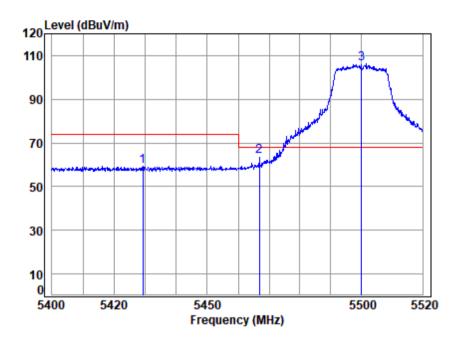


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 108 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5500 Band edge

: 5G WIFT 11N20

	. 50 1	MII I I	INZU							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
							-			
	5429.157	10.61	32.86	30.73	46.58	59.32	74.00	-14.68	Peak	
	5466.875	10.59	32.90	30.71	51.24	64.02	68.20	-4.18	peak	
ממ	5500.000	10.58	32.90	30.70	93.55	106.33	68.20	38.13	Peak	



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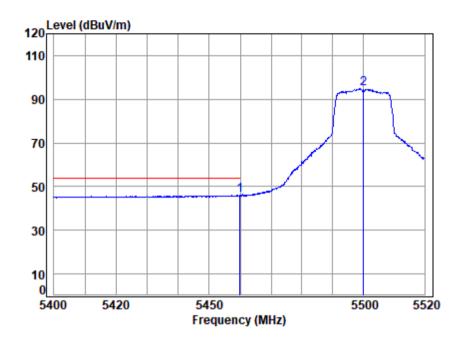


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 109 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5500 Band edge

: 5G WIFI 11N20

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

MHz dB dB/m dBuV dBuV/m dBuV/m

1 pp 5459.910 10.60 32.90 30.72 33.25 46.03 54.00 -7.97 Average 5500.000 10.58 32.90 30.70 82.04 94.82 ----- Average



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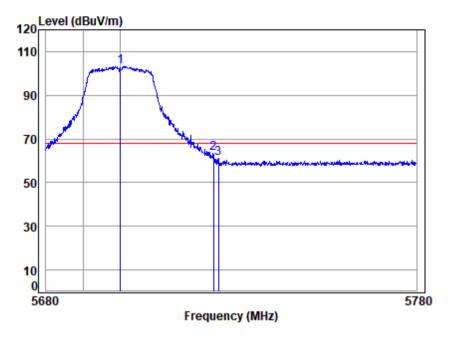


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 110 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5700 Band edge

: 5G WIFT 11N20

	. 50	****	11120						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5700.000	10.56	33.20	30.62	89.94	103.08	68.20	34.88	peak
2	5725.000	10.68	33.25	30.61	50.15	63.47	68.20	-4.73	peak
	5726.383								•



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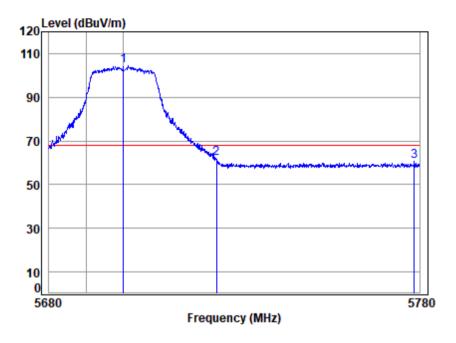


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 111 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5700 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 pp	5700.000	10.56	33.20	30.62	91.22	104.36	68.20	36.16	Peak
2	5725.000	10.68	33.25	30.61	48.62	61.94	68.20	-6.26	Peak
3	5778 588	10 92	33 36	30 59	46 97	60 66	68 20	-7 54	Peak



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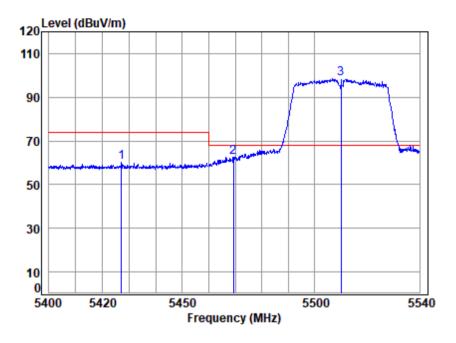


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 112 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5510 Band edge

: 5G WIFI 11N40

	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5427.158	10.61	32.85	30.73	47.40	60.13	74.00	-13.87	peak
2	5469.272	10.59	32.90	30.71	49.95	62.73	68.20	-5.47	peak
3 рр	5510.000	10.56	32.90	30.70	85.62	98.38	68.20	30.18	peak



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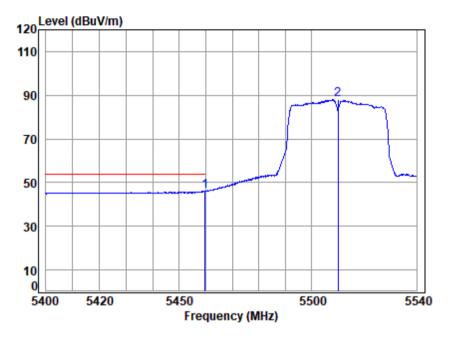


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 113 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5510 Band edge

: 5G WIFI 11N40

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Frea Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 1 pp 5459.622 10.60 32.90 30.72 33.41 46.19 54.00 -7.81 Average 5510.000 10.56 32.90 30.70 75.34 88.10 ----- Average



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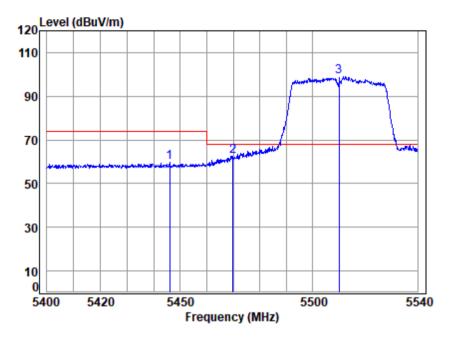


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 114 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5510 Band edge

: 5G WIFI 11N40

		Freq			Preamp Factor					Remark	
	_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
		5445.944	10.60	32.89	30.72	46.77	59.54	74.00	-14.46	Peak	
)		5469.832	10.59	32.90	30.71	49.58	62.36	68.20	-5.84	peak	
;	рр	5510.000	10.56	32.90	30.70	86.16	98.92	68.20	30.72	Peak	



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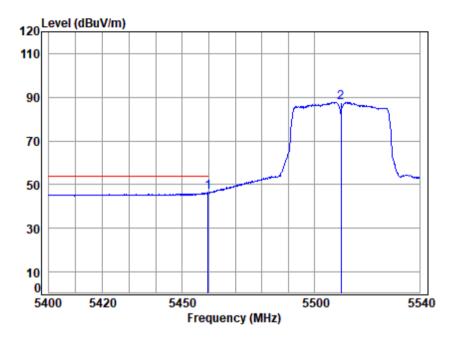


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 115 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5510 Band edge

: 5G WIFI 11N40

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

MHz dB dB/m dBuV dBuV/m dBuV/m

1 pp 5459.761 10.60 32.90 30.72 33.56 46.34 54.00 -7.66 Average 5510.000 10.56 32.90 30.70 75.05 87.81 ----- Average



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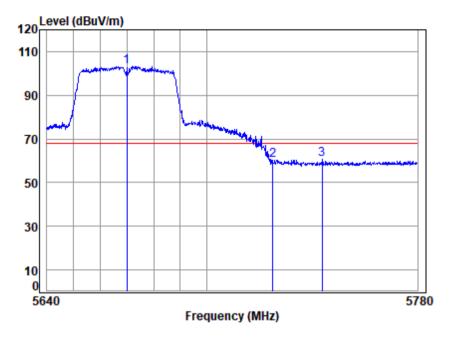


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 116 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5670 Band edge

: 5G WIFI 11N40

	. 50	****	TIVTO						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5670.000	10.52	33.14	30.63	90.30	103.33	68.20	35.13	peak
2	5725.000	10.68	33.25	30.61	46.88	60.20	68.20	-8.00	peak
3	5743.551	10.76	33.29	30.60	47.32	60.77	68.20	-7.43	peak



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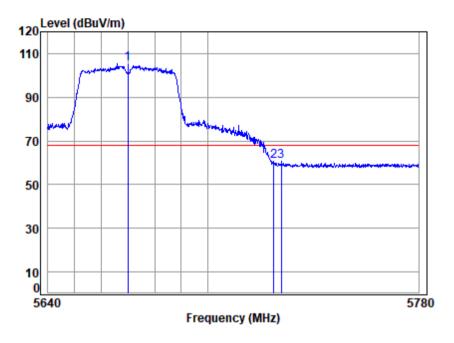


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 117 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5670 Band edge

: 5G WIFI 11N40

	Freq						Limit Line		
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5670.000								
	5725.000	10.68	33.25	30.61	47.21	60.53	68.20	-7.67	Peak
	5727.799	10.69	33.26	30.61	47.19	60.53	68.20	-7.67	Peak



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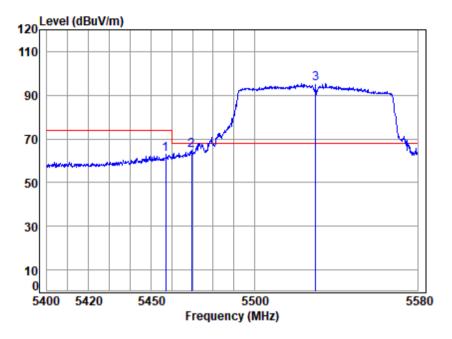


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 118 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5530 Band edge

: 5G WIFI 11AC80

							Remark
dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
10.59	32.90	30.71	51.83	64.61	68.20	-3.59	peak
	Loss dB 10.60 10.59	Loss Factor dB dB/m 10.60 32.90 10.59 32.90	Loss Factor Factor dB dB/m dB 10.60 32.90 30.72 10.59 32.90 30.71	Loss Factor Factor Level dB dB/m dB dBuV 10.60 32.90 30.72 50.09 10.59 32.90 30.71 51.83	Loss Factor Factor Level Level dB dB/m dB dBuV dBuV/m 10.60 32.90 30.72 50.09 62.87 10.59 32.90 30.71 51.83 64.61	Loss Factor Factor Level Level Level Line dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m 10.60 32.90 30.72 50.09 62.87 74.00 10.59 32.90 30.71 51.83 64.61 68.20	Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit AB AB AB AB AB AB AB A



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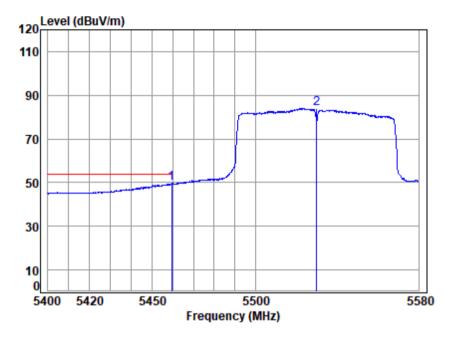


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 119 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5530 Band edge

: 5G WIFI 11AC80

Cable Ant Preamp Limit 0ver Read Loss Factor Factor Limit Remark Line Frea Level Level MHz dB dB/m dBuV dBuV/m dBuV/m 1 pp 5459.465 10.60 32.90 30.72 36.74 49.52 54.00 -4.48 Average

5530.000 10.53 32.90 30.69 71.19 83.93 ----- Average



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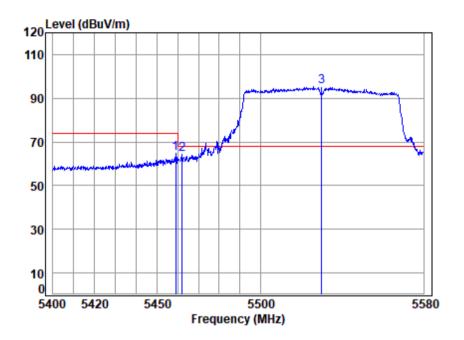


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 120 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5530 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	5458.928	10.60	32.90	30.72	52.10	64.88	74.00	-9.12	Peak
2	5462.151	10.60	32.90	30.72	51.57	64.35	68.20	-3.85	peak
3 рр	5530.000	10.53	32.90	30.69	82.39	95.13	68.20	26.93	Peak



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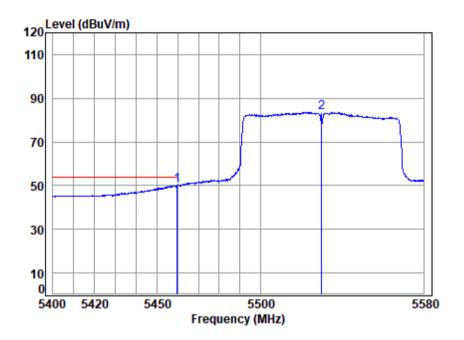


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 121 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5530 Band edge

: 5G WIFI 11AC80

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

1 pp 5459.644 10.60 32.90 30.72 37.19 49.97 54.00 -4.03 Average 5530.000 10.53 32.90 30.69 70.88 83.62 ----- Average



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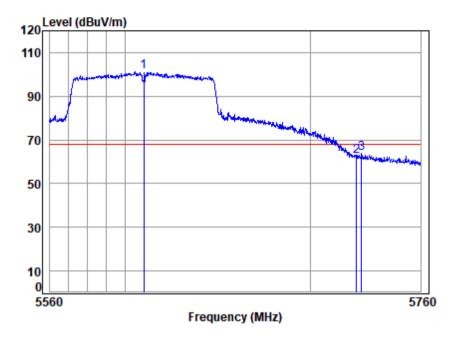


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 122 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5610 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5610.000	10.43	33.02	30.66	88.39	101.18	68.20	32.98	peak
2	5725.000	10.80	33.30	30.60	48.90	62.40	68.20	-5.80	peak
3	5727.726	10.69	33.26	30.61	50.45	63.79	68.20	-4.41	Peak



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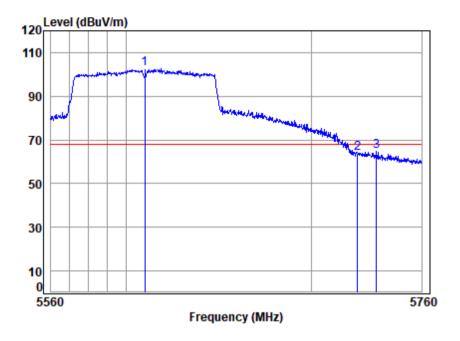


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 123 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5610 Band edge

: 5G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5610.000	10.43	33.02	30.66	89.79	102.58	68.20	34.38	Peak
	5725.000	10.68	33.25	30.61	50.52	63.84	68.20	-4.36	Peak
	5735.220	10.72	33.27	30.61	51.23	64.61	68.20	-3.59	Peak



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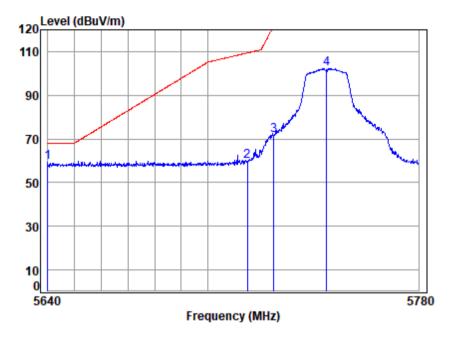


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 124 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5745 Band edge

: 5.8G WIFI 11A

	Freq			Preamp Factor				Remark
				——dB			 	
	5640.000							•
	5715.000 5725.000							•
4	5745.000	10.77	33.29	30.60	88.92	102.38	 	peak



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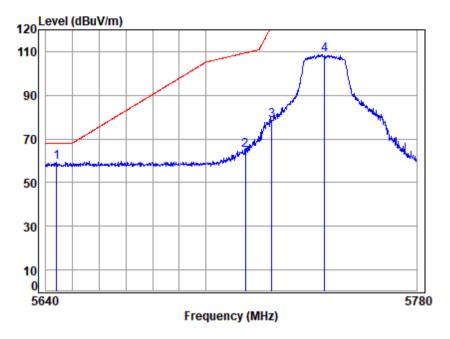


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 125 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5745 Band edge

: 5.8G WIFI 11A

			G MII I	117						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	pp	5644.012	10.48	33.09	30.64	46.34	59.27	68.20	-8.93	peak
)		5715.000	10.63	33.23	30.61	51.59	64.84	109.40	-44.56	peak
;		5725.000	10.68	33.25	30.61	65.33	78.65	122.20	-43.55	peak
L		5745.000	10.77	33.29	30.60	95.27	108.73			neak



2 3

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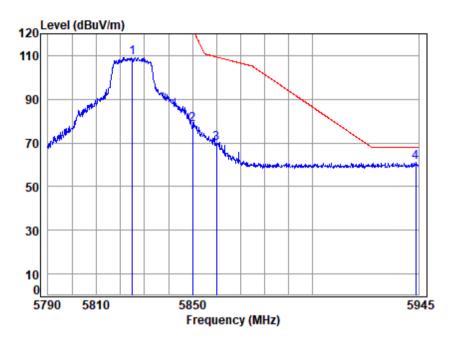


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 126 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT : 5825 Band edge Mode

: 5.8G WIFI 11A

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
	5825.000								•	
	5850.000	10.95	33.60	30.56	64.55	78.54	122.20	-43.66	peak	
}	5860.000	10.94	33.58	30.56	55.98	69.94	109.40	-39.46	peak	
Ιр	p 5943.744									



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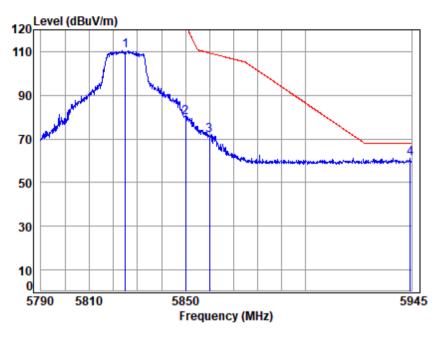


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 127 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5825 Band edge

: 5.8G WIFI 11A

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
5825.000 5850.000 5860.000 pp 5944.529	10.95 10.94	33.60 33.58	30.56 30.56	65.65 57.90	79.64 71.86	122.20 109.40	-42.56 -37.54	peak peak



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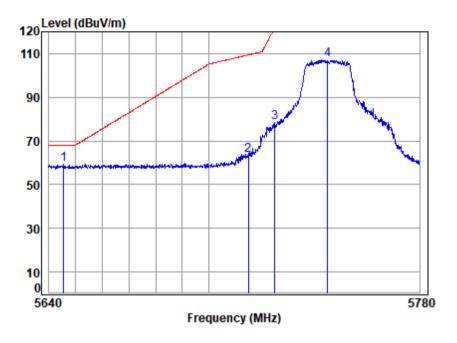


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 128 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5745 Band edge

: 5.8G WIFI 11N20

	Freq			Preamp Factor					Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5645.534 5715.000 5725.000 5745.000	10.63 10.68	33.23 33.25	30.61 30.61	50.01 65.12	63.26 78.44	109.40 122.20	-46.14 -43.76	peak peak



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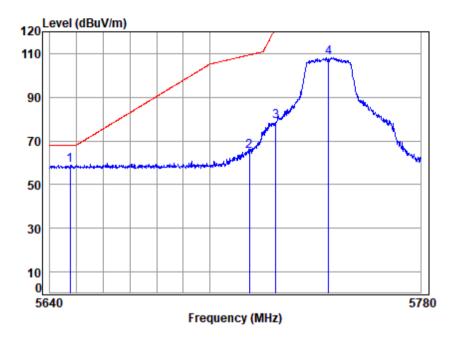


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 129 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5745 Band edge

: 5.8G WIFI 11N20

		a wii i	111120						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp	5647.611	10.48	33.10	30.64	46.14	59.08	68.20	-9.12	peak
	5715.000	10.63	33.23	30.61	51.88	65.13	109.40	-44.27	peak
	5725.000	10.68	33.25	30.61	65.65	78.97	122.20	-43.23	peak
	5745.000	10.77	33.29	30.60	94.84	108.30			neak



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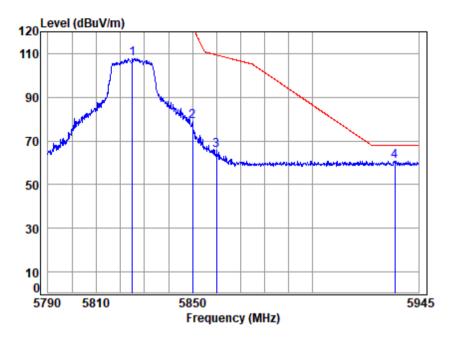


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 130 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5825 Band edge

: 5.8G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5825.000	10.99	33.50	30.57	93.84	107.76			peak
2	5850.000	10.95	33.60	30.56	64.75	78.74	122.20	-43.46	peak
3	5860.000	10.94	33.58	30.56	51.87	65.83	109.40	-43.57	peak
4 p	p 5934.957	10.86	33.57	30.53	46.83	60.73	68.20	-7.47	peak



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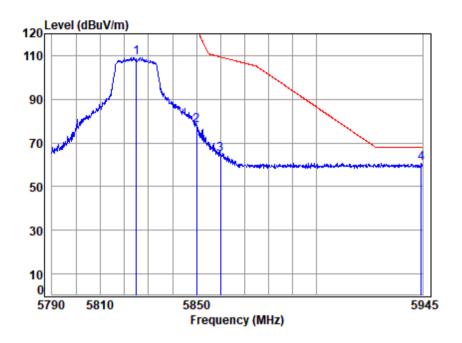


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 131 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5825 Band edge

: 5.8G WIFI 11N20

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
L 2		10.95	33.60	30.56	63.97	77.96	122.20	-44.24	peak	
3 4 p	5860.000 p 5944.529								-	



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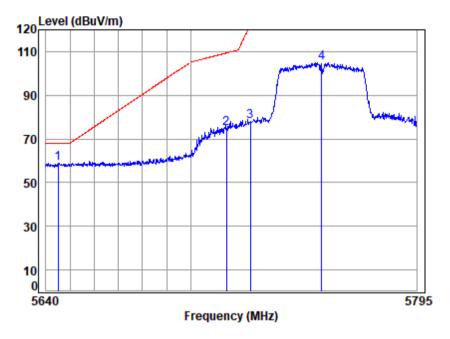


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 132 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5755 Band edge

: 5.8G WIFI 11N40

	Freq			Preamp Factor					Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
pp	5645.048 5715.000									
}	5725.000								-	
	5755.000	10.81	33.31	30.60	91.65	105.17			peak	



2 3

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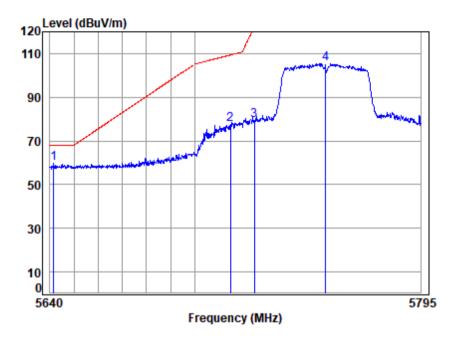


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 133 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5755 Band edge

: 5.8G WIFI 11N40

		a wii i	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	
pp	5641.529	10.47	33.08	30.64	46.91	59.82	68.20	-8.38	peak
	5715.000	10.63	33.23	30.61	64.47	77.72	109.40	-31.68	peak
	5725.000	10.68	33.25	30.61	66.03	79.35	122.20	-42.85	peak
	5755.000	10.81	33.31	30.60	92.05	105.57			neak



2 3

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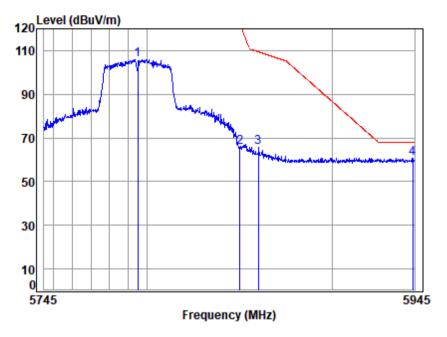


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 134 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5795 Band edge

: 5.8G WIFI 11N40

		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		5795.000								•
		5850.000 5860.000								•
4 p	ор	5943.983	10.85	33.59	30.52	46.85	60.77	68.20	-7.43	peak



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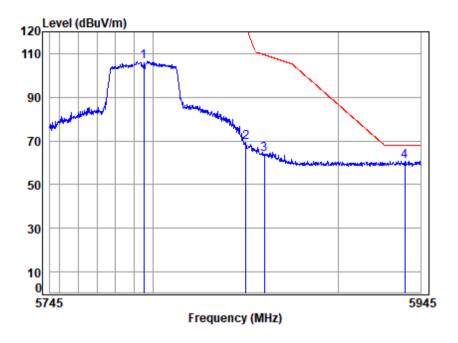


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 135 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5795 Band edge

: 5.8G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						ID 1//	ID 1//		
	MHz	ав	aB/m	dB	aBuv	aBuv/m	aBuV/m	ав	
	5795.000	11.00	33.39	30.58	92.61	106.42			neak
	5850.000								•
	5860.000								
р	p 5936.258								



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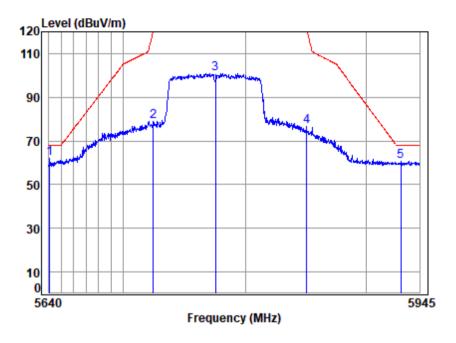


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 136 of 311

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



Condition: 3m HORIZONTAL Job No : 04600AT/04601AT Mode : 5775 Band edge : 5.8G 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	рр	5640.594	10.47	33.08	30.64	49.28	62.19	68.20	-6.01	Peak
2		5724.390	10.67	33.25	30.61	65.49	78.80	120.81	-42.01	peak
3		5775.000	10.91	33.35	30.59	87.13	100.80			peak
4		5850.267	10.95	33.60	30.56	62.47	76.46	121.59	-45.13	peak
5		5929.366	10.87	33.56	30.53	46.94	60.84	68.20	-7.36	peak



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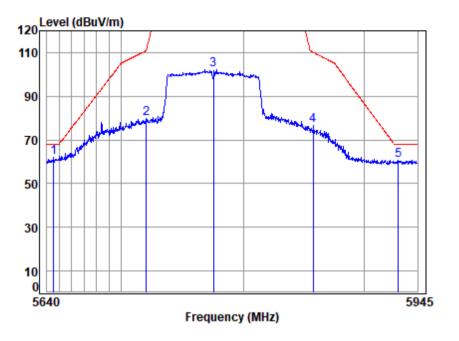


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 137 of 311

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



Condition: 3m VERTICAL

Job No : 04600AT/04601AT Mode : 5775 Band edge

: 5.8G WIFI 11AC80

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	5645.349	10.48	33.09	30.64	49.20	62.13	68.20	-6.07	Peak
2	5720.171	10.65	33.24	30.61	66.55	79.83	111.19	-31.36	peak
3	5775.000	10.91	33.35	30.59	88.36	102.03			peak
4	5857.666	10.95	33.58	30.56	62.58	76.55	110.05	-33.50	peak
5	5928.741	10.87	33.56	30.53	46.93	60.83	68.20	-7.37	peak



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 138 of 311

7.6 Channel Move Time

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

Limit:

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

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

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

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar



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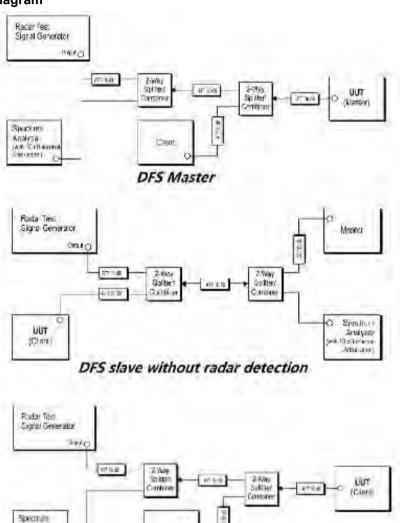
Report No.: SZCR241200460005

Page: 139 of 311

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	Normal operating_Keep the EUT communication with the companion device.

7.6.3 Test Setup Diagram



DFS slave with radar detection



Archysic See 10.16 in American

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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

> Page: 140 of 311

7.6.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details



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Report No.: SZCR241200460005

Page: 141 of 311

7.7 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2 Test Method: ANSI C63.10 (2013) Section 12.2

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

7.7.2 Test Mode Description				
Pre-scan / Final test	Mode Code	Description		
Final test	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.		
Final test	08	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.		
Final test	09	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.		
Final test	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/ac 20/40/80, Only the data of worst case is recorded in the report.		



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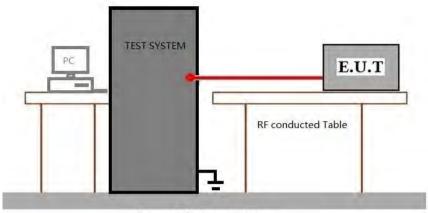
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> Page: 142 of 311

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.: SZCR241200460005

Page: 143 of 311

7.8 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2 Test Method: ANSI C63.10 (2013) Section 12.4.2

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

	Tion Tool Mode Bookington				
Pre-scan / Final test	Mode Code	Description			
Final test	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Final test	08	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Final test	09	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.			
Final test	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/ac 20/40/80, Only the data of worst case is recorded in the report.			



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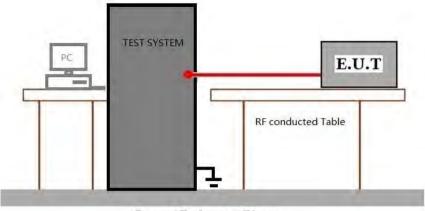
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> Page: 144 of 311

7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 145 of 311

7.9 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a) Test Method: ANSI C63.10 (2013) Section 12.4.1

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

7.3.2 Test mode Description						
Pre-scan / Final test	Mode Code	Description				
Final test	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.				
Final test	08	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.				
Final test	09	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.				
Final test	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/ac 20/40/80, Only the data of worst case is recorded in the report.				



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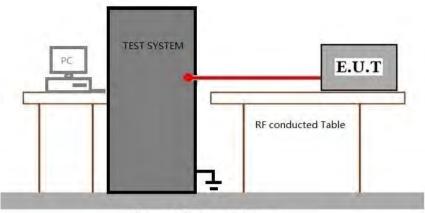
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

> Page: 146 of 311

7.9.3 Test Setup Diagram



Ground Reference Plane

7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 147 of 311

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

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e) Test Method: ANSI C63.10 (2013) Section 6.9.2

Limit:

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

7.10.1 E.U.T. Operation

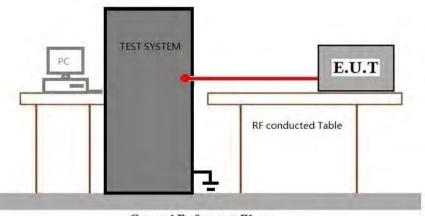
Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

		The state of the s
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/ac 20/40/80, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



Ground Reference Plane

7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 148 of 311

7.11 Peak Power spectrum density

47 CFR Part 15, Subpart E 15.407 (a) Test Requirement Test Method: ANSI C63.10 (2013) Section 12.5

Limit:

Frequenc	y 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:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.			

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	08	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	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/ac 20/40/80, Only the data of worst case is recorded in the report.



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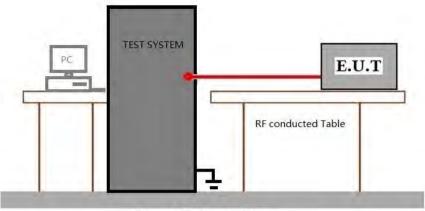
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

> Page: 149 of 311

7.11.3 Test Setup Diagram



Ground Reference Plane

7.11.4 Measurement Procedure and Data

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 150 of 311

7.12 Frequency Stability

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

7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar

7.12.2 Test Mode Description

7.12.2 Took mode Bookington						
Pre-scan / Final test	Mode Code	Description				
Final test	07	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.				
Final test	08	TX mode (U-NII-2A) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.				
Final test	09	TX mode (U-NII-2C) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac 20/40/80, Only the data of worst case is recorded in the report.				
Final test	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/ac 20/40/80, Only the data of worst case is recorded in the report.				



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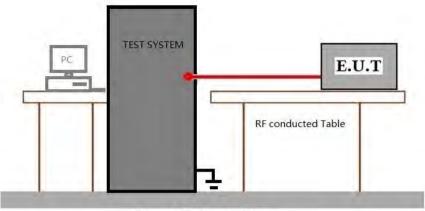
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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

> Page: 151 of 311

7.12.3 Test Setup Diagram



Ground Reference Plane

7.12.4 Measurement Procedure and Data

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Report No.: SZCR241200460005

Page: 152 of 311

7.13 Non-occupancy period

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

Limit:

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

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

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

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

7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar



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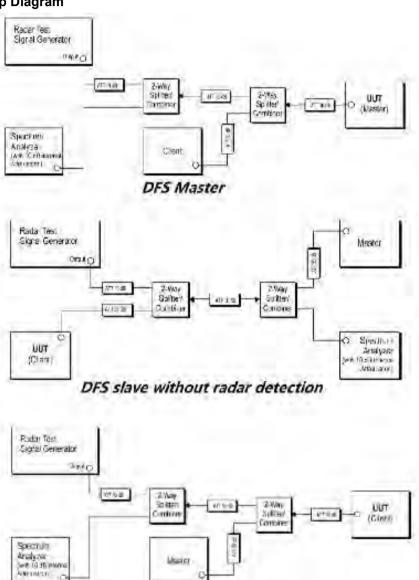
Report No.: SZCR241200460005

Page: 153 of 311

7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	Normal operating_Keep the EUT communication with the companion device.

7.13.3 Test Setup Diagram



DFS slave with radar detection



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> Page: 154 of 311

7.13.4 Measurement Procedure and Data

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

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Report No.: SZCR241200460005

Page: 155 of 311

7.14 Channel Closing Transmission Time

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

Limit:

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

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

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

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

7.14.1 E.U.T. Operation

Operating Environment:

Temperature: Atmospheric Pressure: 1020 mbar 23.2 °C Humidity: 48.1 % RH



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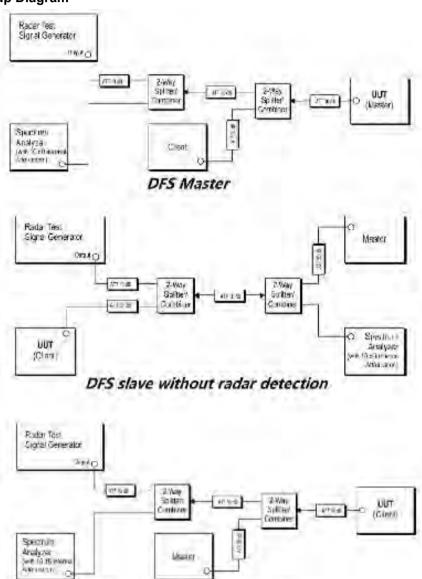
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Page: 156 of 311

7.14.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	11	Normal operating_Keep the EUT communication with the companion device.

7.14.3 Test Setup Diagram



DFS slave with radar detection



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

> Page: 157 of 311

7.14.4 Measurement Procedure and Data

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

Please Refer to Appendix for Details





SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241200460005

> Page: 158 of 311

8 **Test Setup Photo**

Please refer to SZCR2412004600Appendix WLAN Setup Photo

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

Please refer to SZCR2412004600 Appendix_External Photo and Internal Photo.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 159 of 311

10 Appendix

- 1. Duty Cycle
- 1.1 Test Result

1.1.1 Ant1

	Ant1						
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		5180	1.434	1.469	97.62	0.10	0.00
		5200	1.433	1.469	97.55	0.11	0.03
		5240	1.434	1.470	97.55	0.11	0.03
		5260	1.434	1.469	97.62	0.10	0.03
		5300	1.434	1.470	97.55	0.11	0.03
802.11a	SISO	5320	1.434	1.468	97.68	0.10	0.00
002.118	3130	5500	1.434	1.469	97.62	0.10	0.00
		5580	1.434	1.468	97.68	0.10	0.00
		5700	1.434	1.468	97.68	0.10	0.00
		5745	1.435	1.470	97.62	0.10	0.03
		5785	1.434	1.469	97.62	0.10	0.00
		5825	1.434	1.468	97.68	0.10	0.00
		5180	1.342	1.377	97.46	0.11	0.03
		5200	1.342	1.377	97.46	0.11	0.03
		5240	1.342	1.377	97.46	0.11	0.03
		5260	1.342	1.377	97.46	0.11	0.00
		5300	1.341	1.376	97.46	0.11	0.00
802.11n	SISO	5320	1.341	1.376	97.46	0.11	0.00
(HT20)	3130	5500	1.342	1.377	97.46	0.11	0.03
		5580	1.342	1.378	97.39	0.11	0.03
		5700	1.342	1.377	97.46	0.11	0.00
		5745	1.341	1.376	97.46	0.11	0.00
		5785	1.342	1.377	97.46	0.11	0.03
		5825	1.341	1.376	97.46	0.11	0.03
		5190	0.665	0.700	95.00	0.22	0.03
802.11n	SISO	5230	0.665	0.700	95.00	0.22	0.03
(HT40)	3130	5270	0.665	0.700	95.00	0.22	0.03
		5310	0.665	0.700	95.00	0.22	0.03



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 160 of 311

		5510	0.666	0.700	95.14	0.22	0.03
		5550	0.666	0.701	95.01	0.22	0.03
		5670	0.666	0.700	95.14	0.22	0.03
		5755	0.666	0.700	95.14	0.22	0.03
		5795	0.665	0.700	95.00	0.22	0.03
		5180	1.342	1.377	97.46	0.11	0.00
		5200	1.342	1.377	97.46	0.11	0.03
		5240	1.342	1.378	97.39	0.11	0.03
		5260	1.350	1.385	97.47	0.11	0.00
		5300	1.350	1.385	97.47	0.11	0.00
802.11ac	CICO	5320	1.350	1.385	97.47	0.11	0.00
(VHT20)	SISO	5500	1.349	1.384	97.47	0.11	0.00
		5580	1.350	1.385	97.47	0.11	0.00
		5700	1.349	1.384	97.47	0.11	0.00
		5745	1.350	1.615	83.59	0.78	0.01
		5785	1.350	1.615	83.59	0.78	0.03
		5825	1.350	1.615	83.59	0.78	0.03
		5190	0.666	0.701	95.01	0.22	0.03
		5230	0.666	0.700	95.14	0.22	0.03
		5270	0.674	0.709	95.06	0.22	0.03
		5310	0.673	0.708	95.06	0.22	0.03
802.11ac (VHT40)	SISO	5510	0.673	0.708	95.06	0.22	0.03
(11140)		5550	0.673	0.938	71.75	1.44	0.03
		5670	0.674	0.938	71.86	1.44	0.03
		5755	0.673	0.938	71.75	1.44	0.03
		5795	0.673	0.938	71.75	1.44	0.00
		5210	0.333	0.369	90.24	0.45	0.07
		5290	0.333	0.368	90.49	0.43	0.07
802.11ac (VHT80)	SISO	5530	0.332	0.710	46.76	3.30	0.03
(11100)		5610	0.332	0.711	46.69	3.31	0.03
		5775	0.333	0.711	46.84	3.29	0.03



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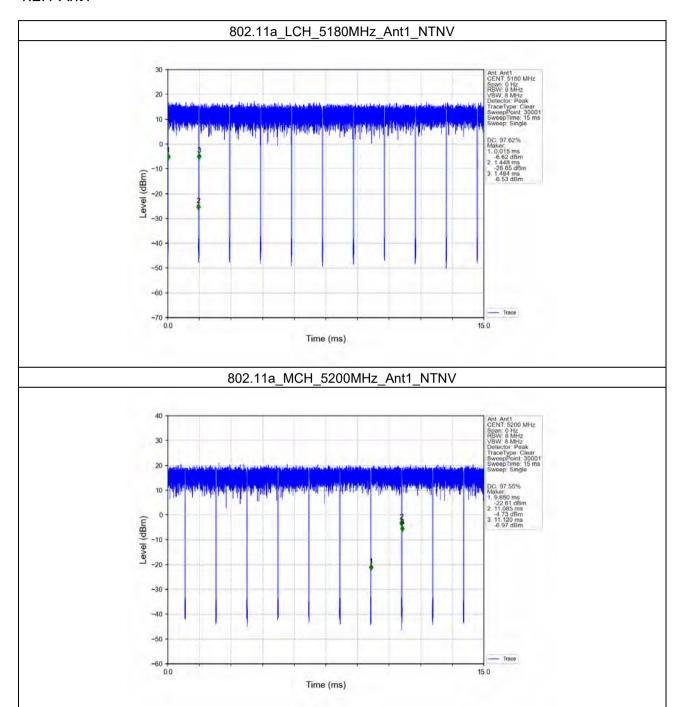
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Report No.: SZCR241200460005

Page: 161 of 311

1.2 Test Graph

1.2.1 Ant1





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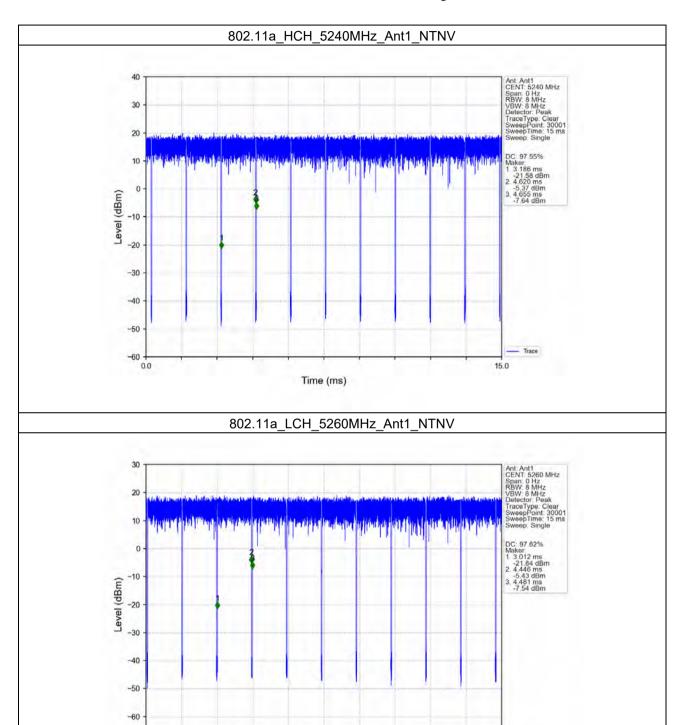
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Report No.: SZCR241200460005

Page: 162 of 311





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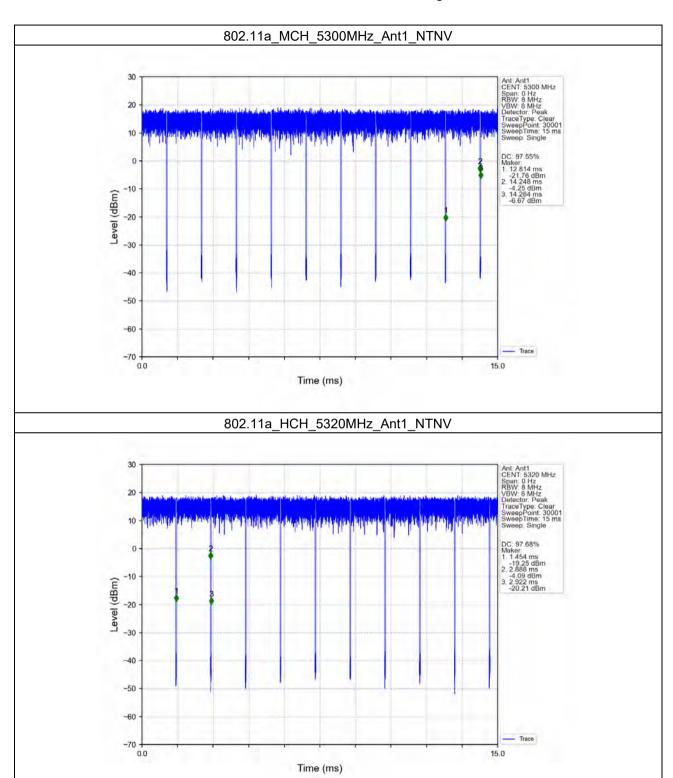
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Report No.: SZCR241200460005

Page: 163 of 311





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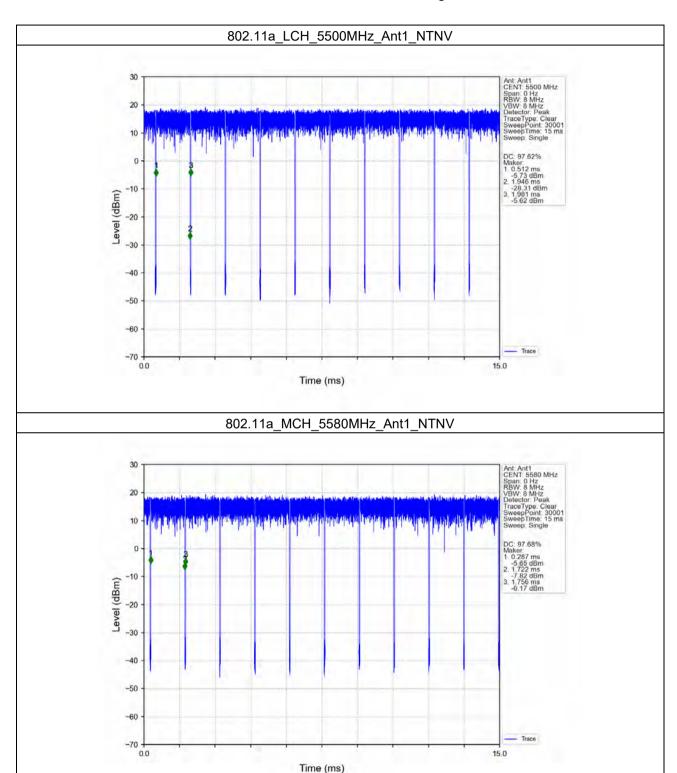
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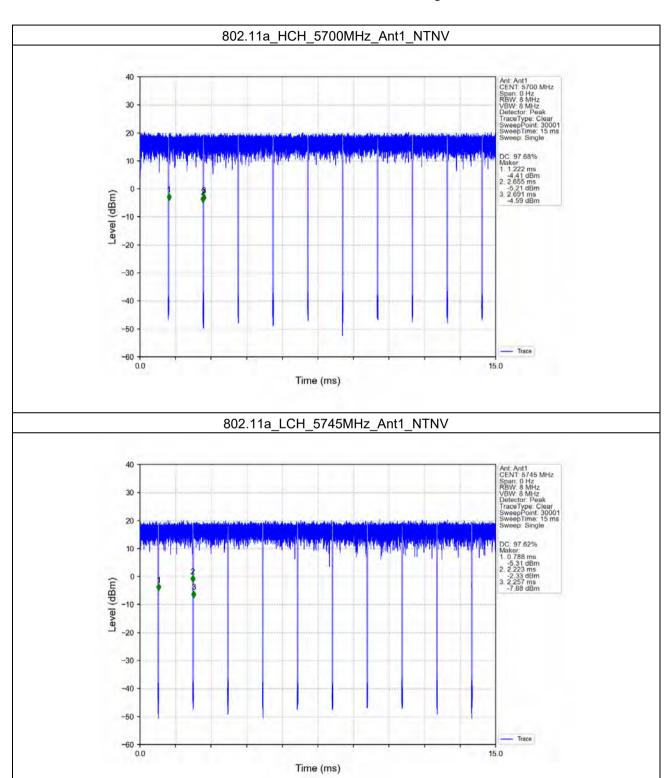
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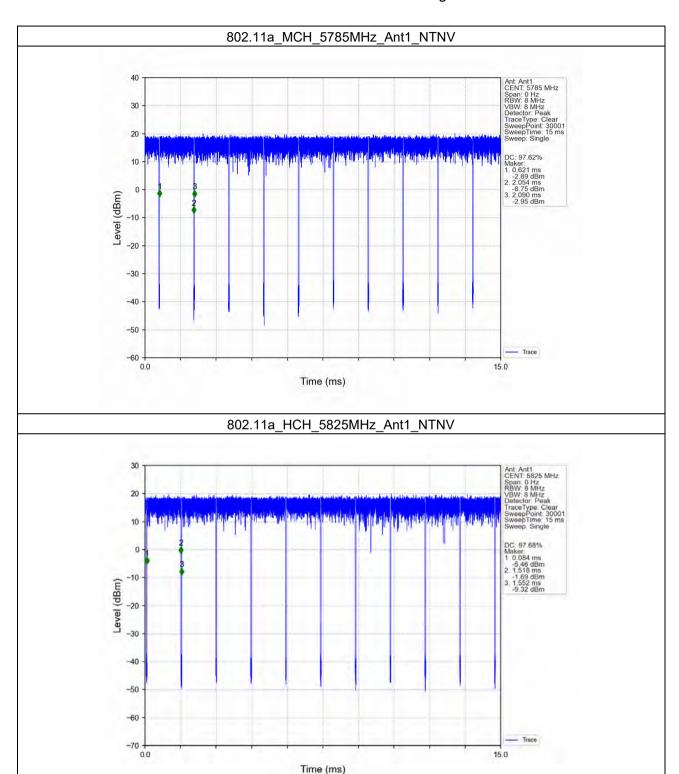
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Report No.: SZCR241200460005

Page: 166 of 311





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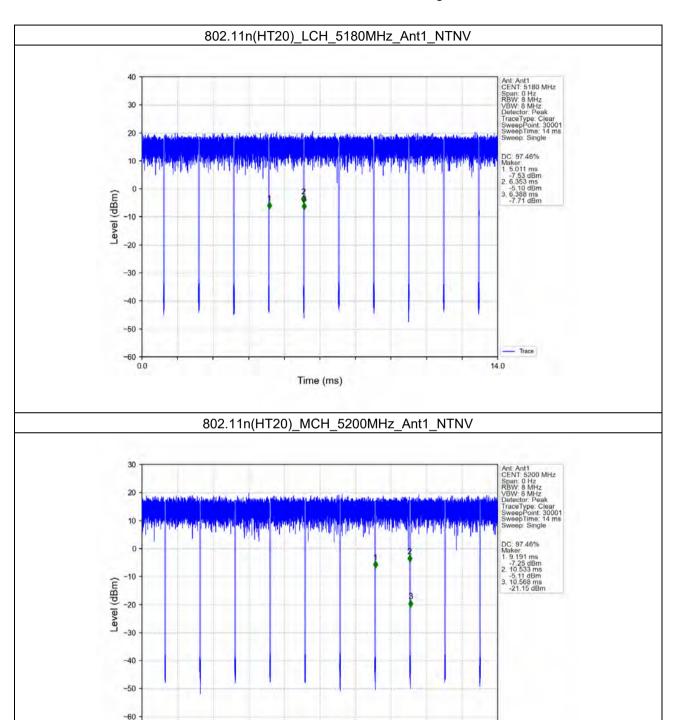
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Report No.: SZCR241200460005

Page: 167 of 311





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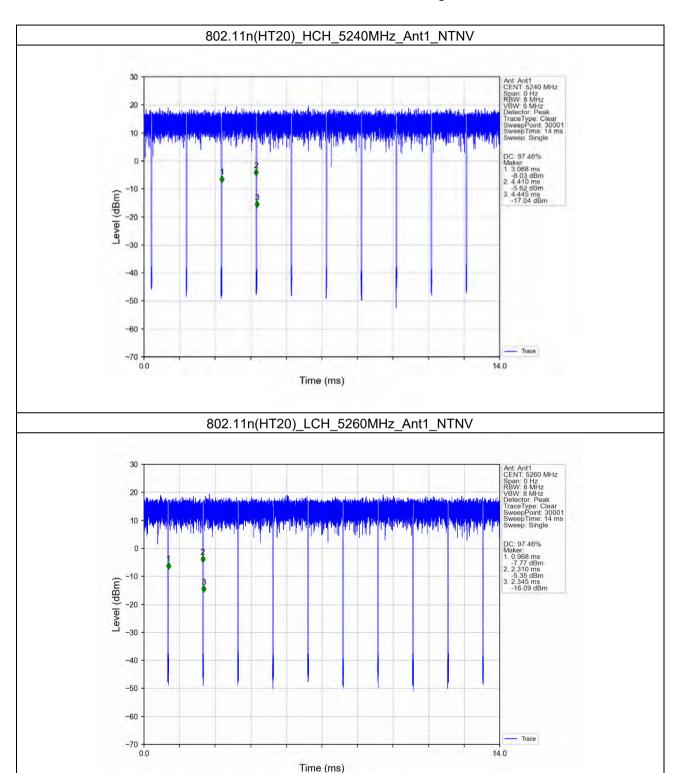
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Page: 168 of 311





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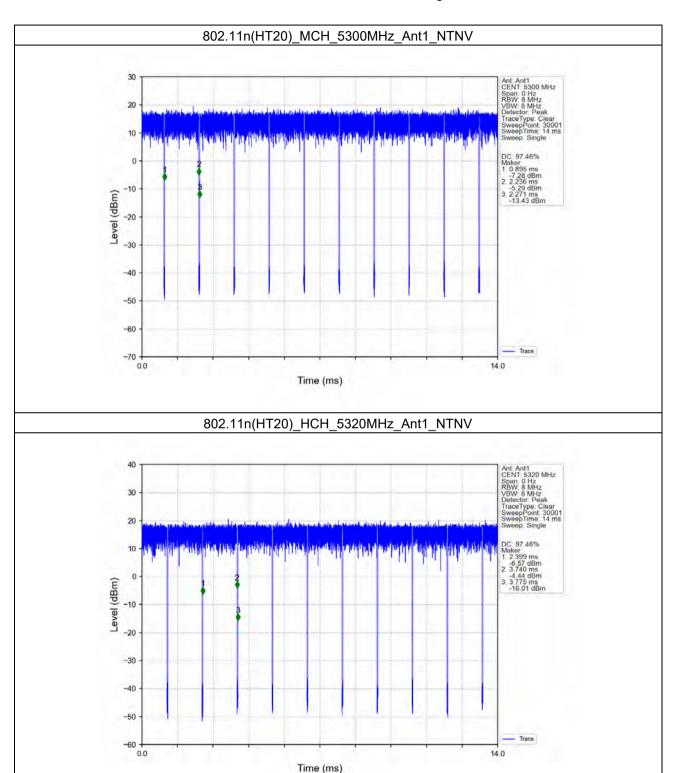
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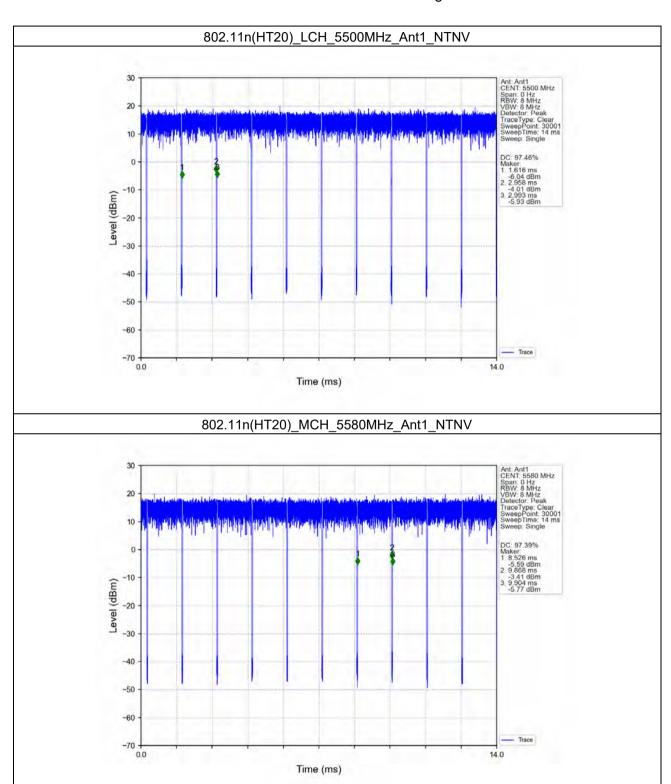
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Report No.: SZCR241200460005

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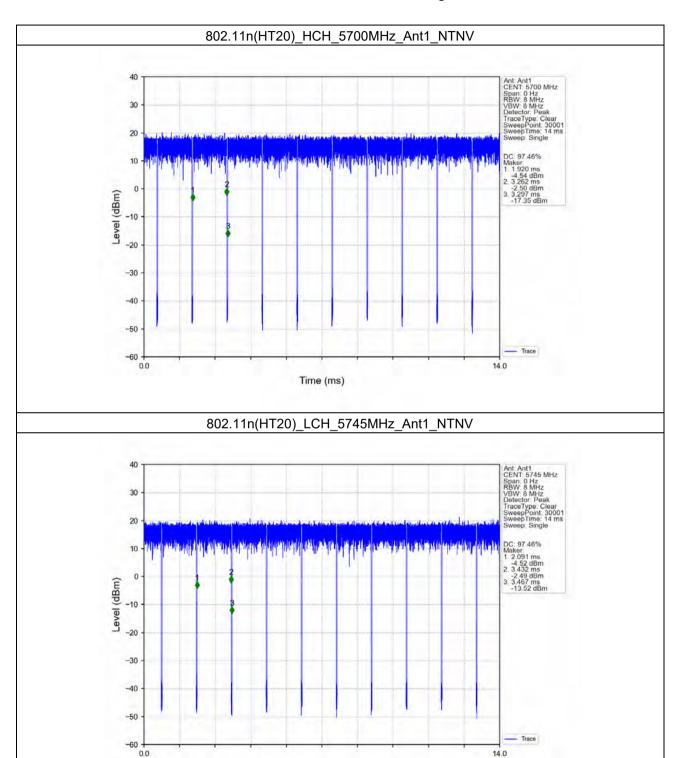
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Report No.: SZCR241200460005

Page: 171 of 311





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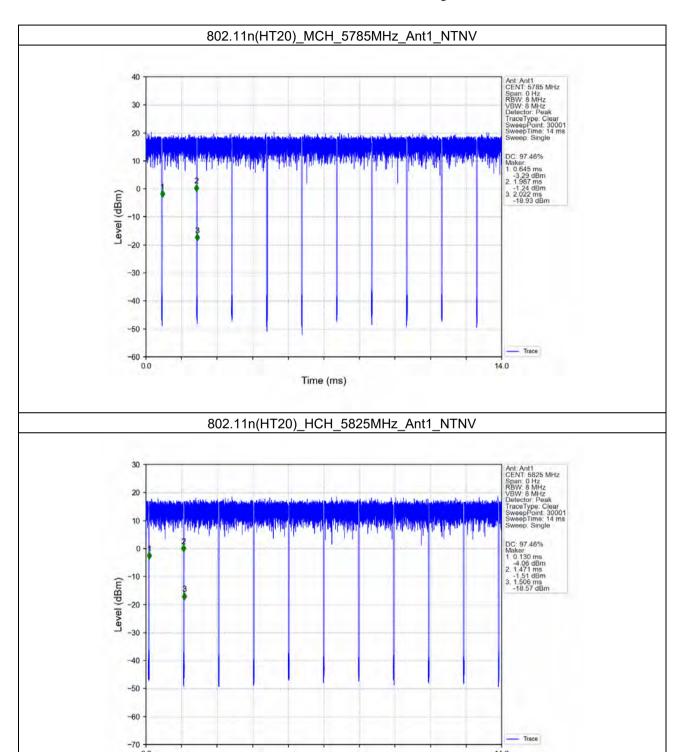
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 172 of 311





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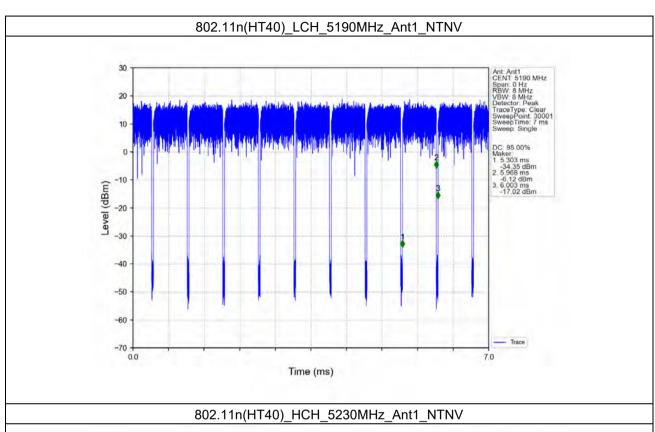
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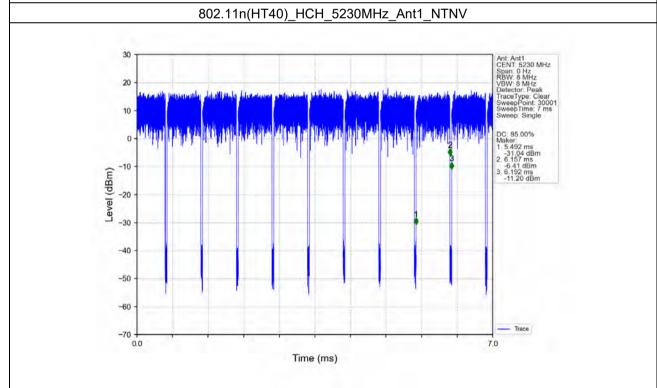


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 173 of 311







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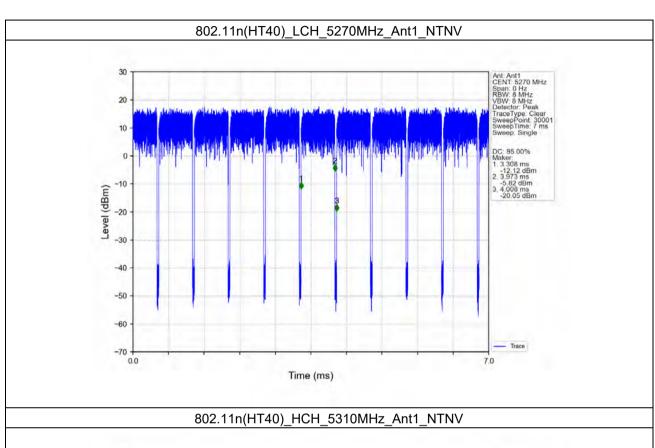
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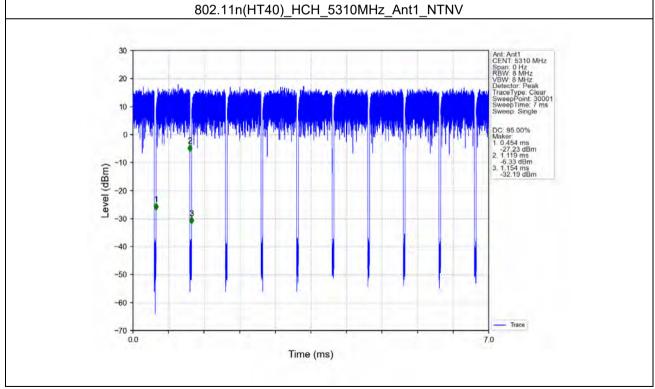


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 174 of 311







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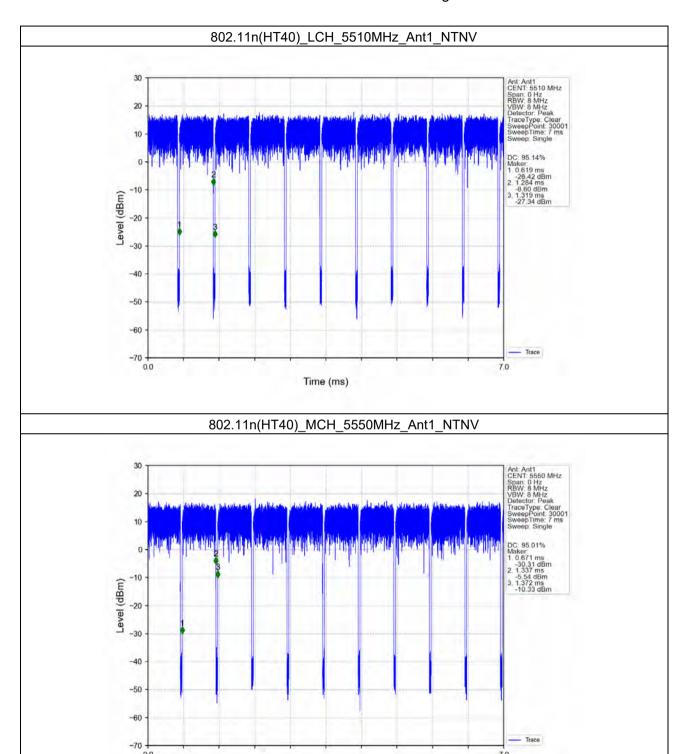
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 175 of 311





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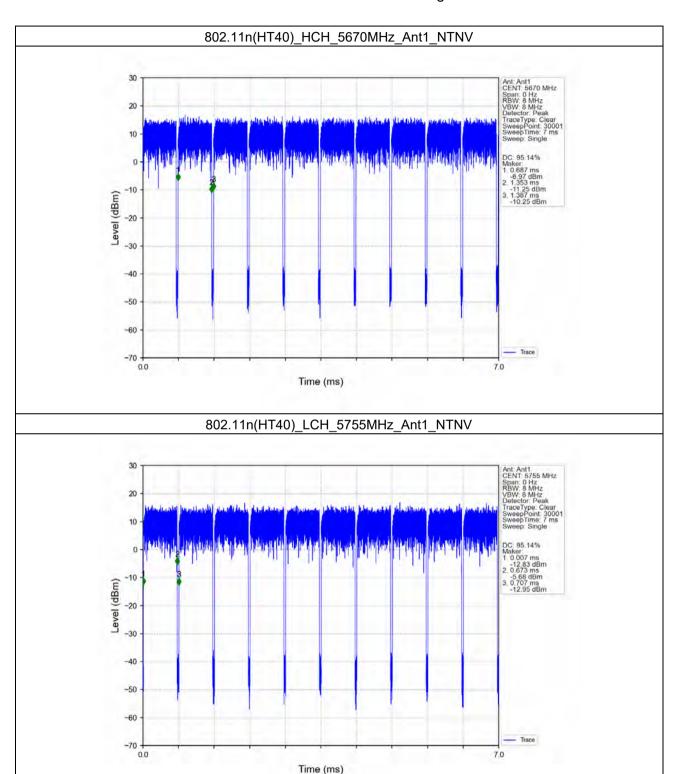
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 176 of 311





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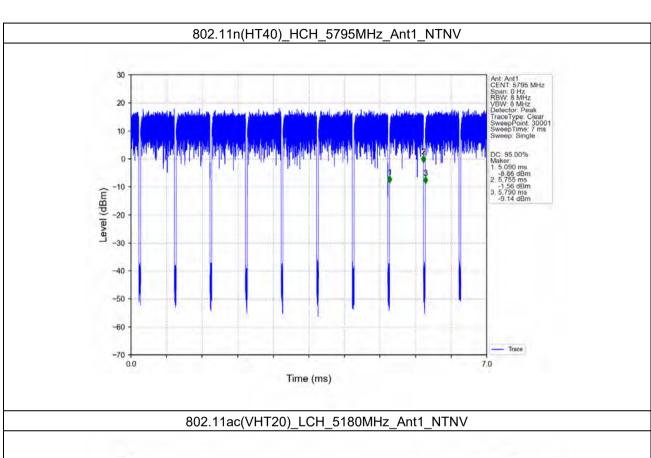
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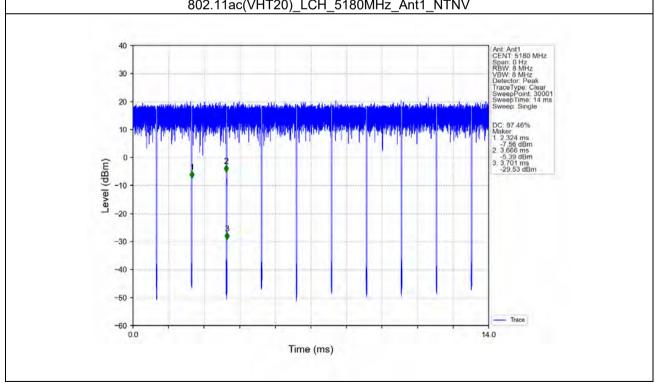


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 177 of 311







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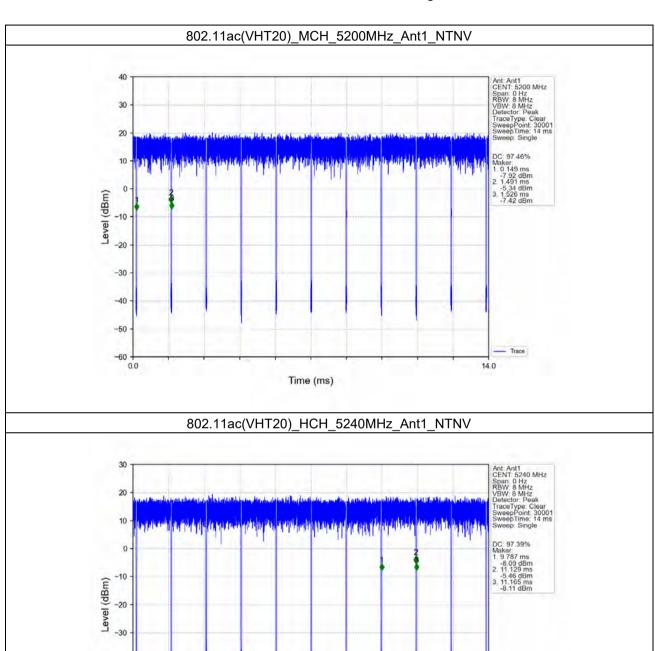
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 178 of 311





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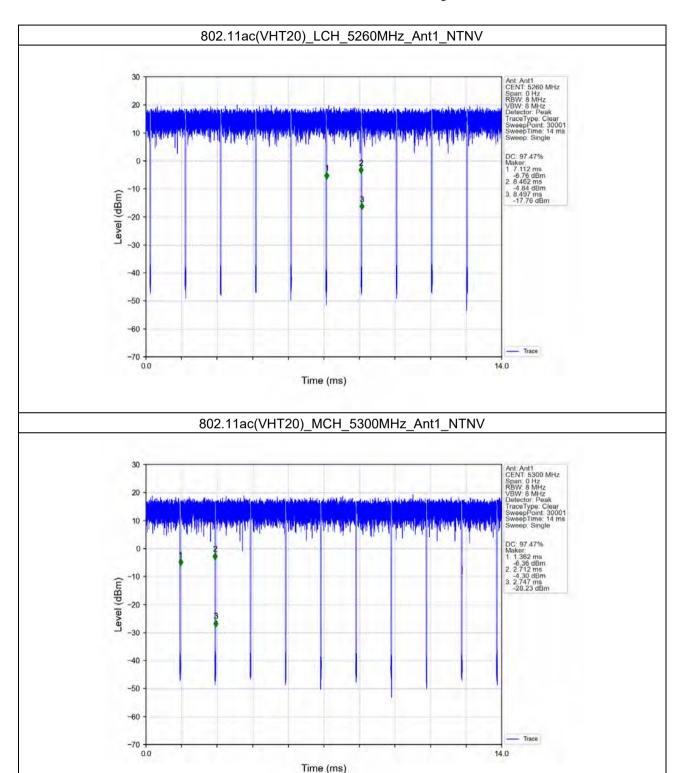
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Report No.: SZCR241200460005

Page: 179 of 311





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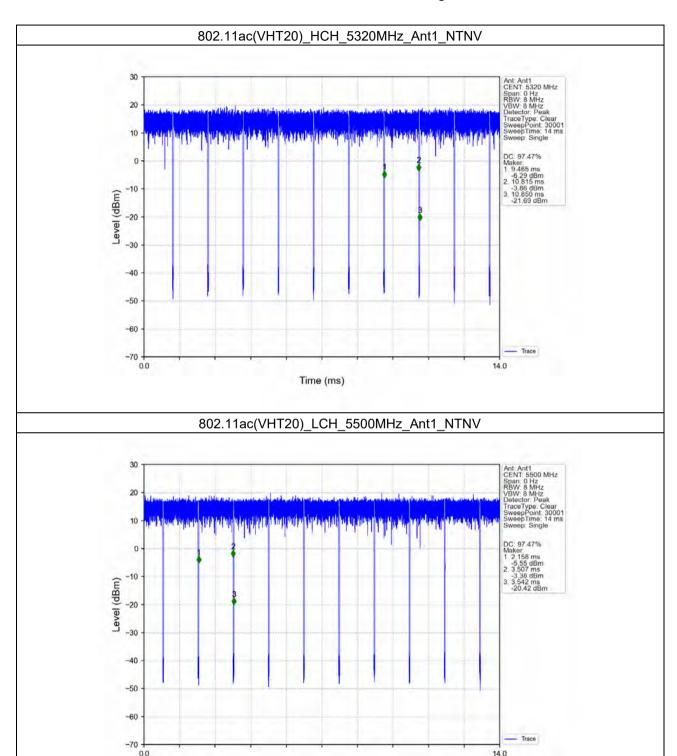
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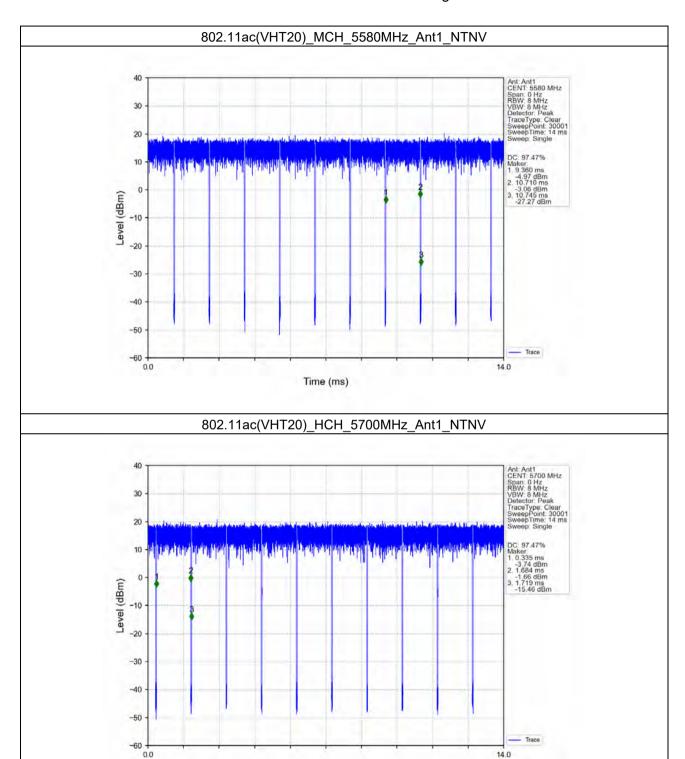
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SZEMC-TRF-01 Rev. A/1

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Page: 181 of 311





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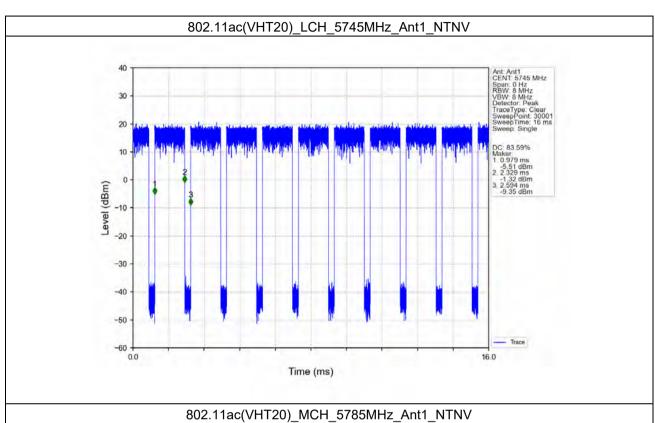
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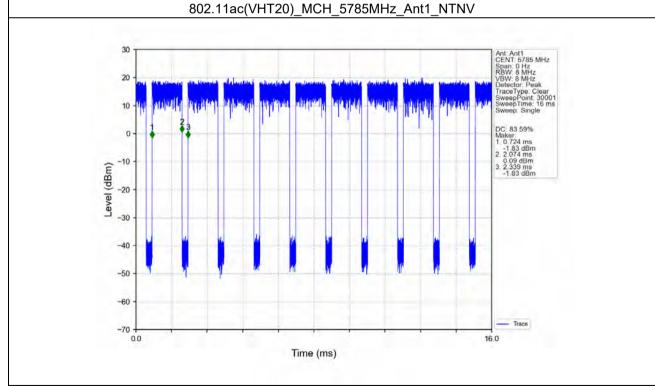


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 182 of 311





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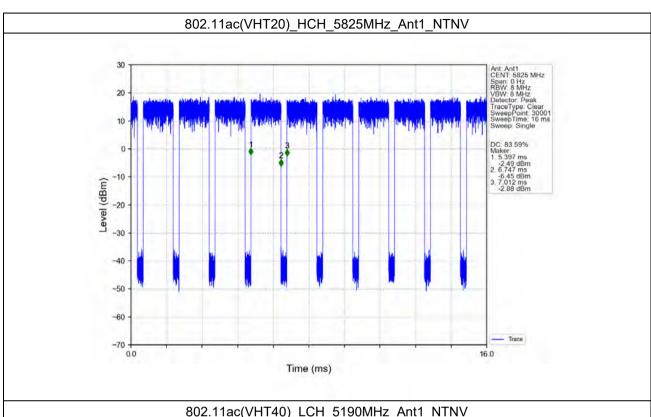
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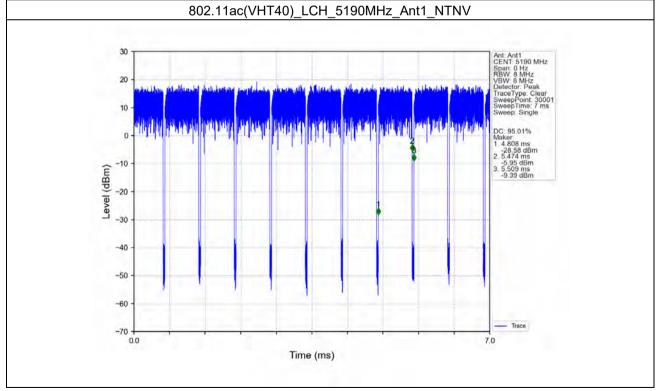


SZEMC-TRF-01 Rev. A/1

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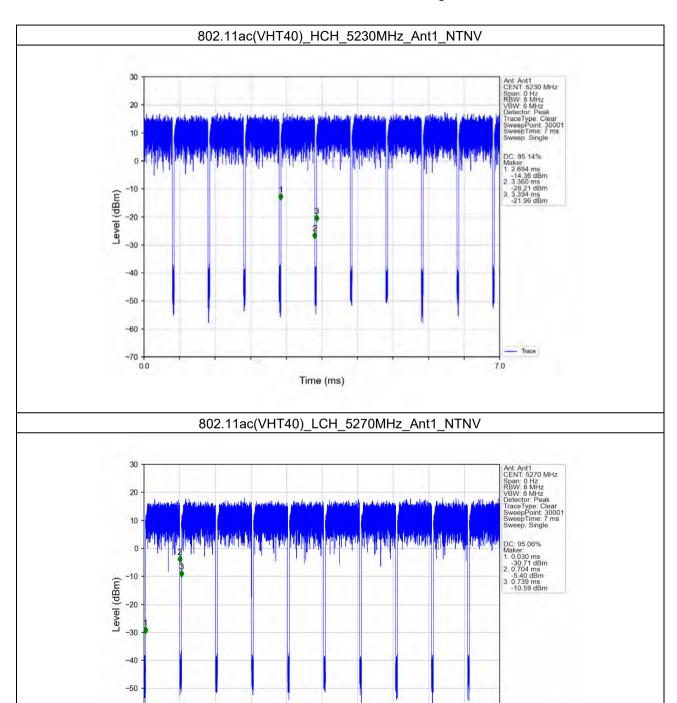
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 184 of 311





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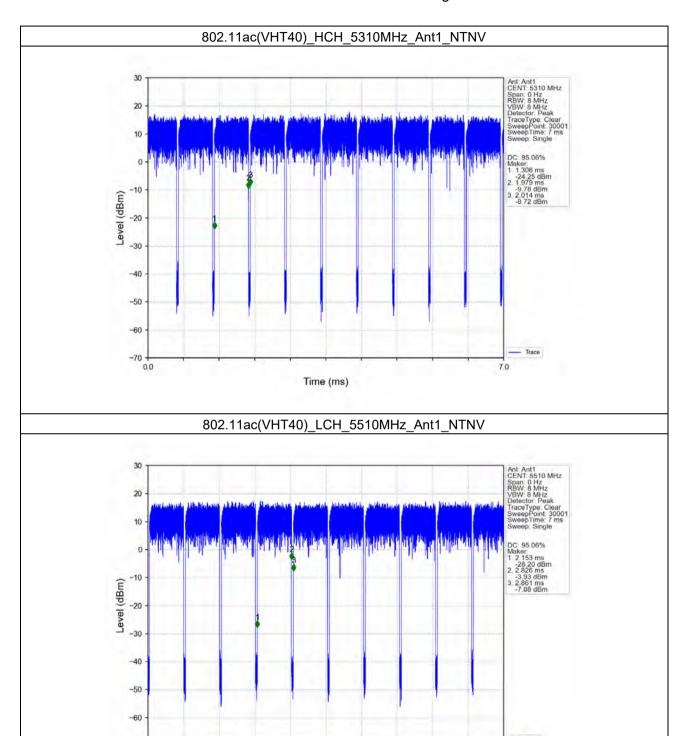
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 185 of 311





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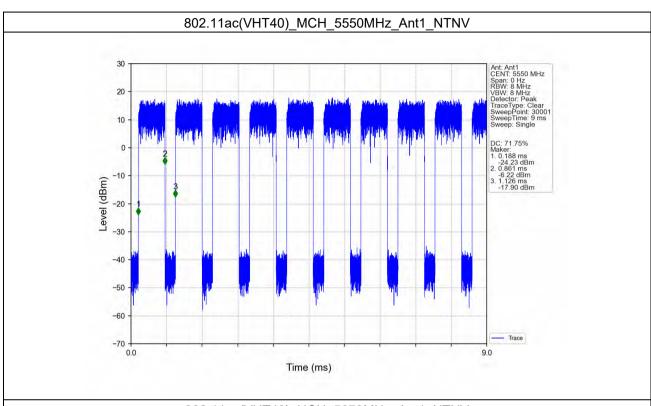
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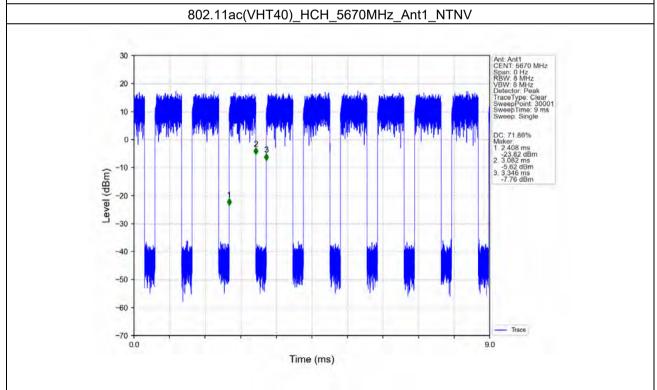


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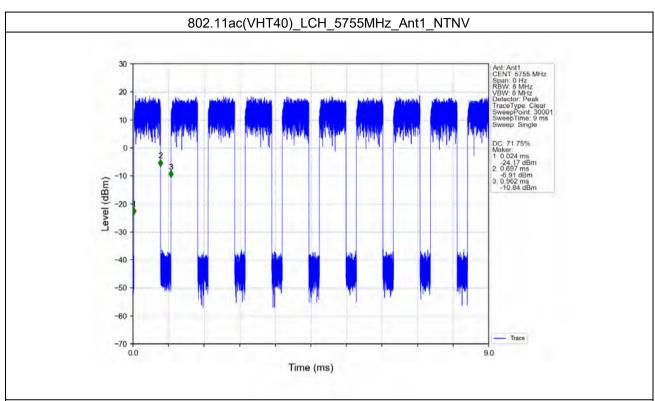
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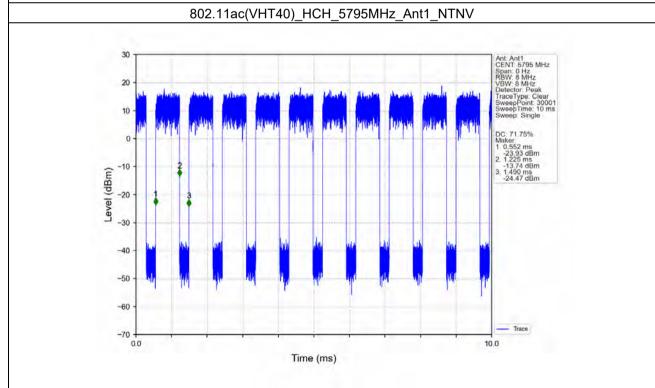


SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241200460005

Page: 187 of 311







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