

Report No.: SZEM200800837802

Page: 1 of 111

TEST REPORT

Application No.: SZEM2008008378CR

Applicant: Echelon Fitness Multimedia LLC

Address of Applicant: 6011 Century Oaks Drive, Chattanoog, Tennessee 37416 United States

Manufacturer: SHENZHEN KINSTONE D&T DEVELOP CO., LTD

Address of Manufacturer: 5F, A2 B, XinJianXing Tech Industrial Park, Fengxin Road, Lou Cun,

Gongming Street, Guangming New Dist., Shenzhen, China

Factory: SHENZHEN KINSTONE D&T DEVELOP CO., LTD

Address of Factory: 5F, A2 B, XinJianXing Tech Industrial Park, Fengxin Road, Lou Cun,

Gongming Street, Guangming New Dist., Shenzhen, China

Equipment Under Test (EUT):

EUT Name: TEMP CHECK IN

Model No.: E-TEMP-C2
Trade mark: ECHELON

FCC ID: 2AWD4-TEMPC2

Standard(s): 47 CFR Part 15, Subpart C 15.247

Date of Receipt: 2020-08-25

Date of Test: 2020-08-25 to 2020-11-03

Date of Issue: 2020-11-03

Test Result: Pass*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



Report No.: SZEM200800837802

Page: 2 of 111

	Revision Record							
Version	Chapter	Date	Modifier	Remark				
01		2020-11-03		Original				

Authorized for issue by:		
	Damon Su	
	Damon Su/Project Engineer	-
	EvicFu	
	Eric Fu/Reviewer	-



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Report No.: SZEM200800837802

Page: 3 of 111

Test Summary 2

Radio Spectrum Technical Requirement						
Item	Standard	Method	Requirement	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass		

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Minimum 6dB	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass		
Bandwidth	Subpart C 15.247	Section 11.8.1	C 15.247a(2)			
Power Spectrum	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass		
Density	Subpart C 15.247	Section 11.10.2	C 15.247(e)			
Conducted Band	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass		
Edges Measurement	Subpart C 15.247	Section 11.13.3.2	C 15.247(d)			
Conducted Spurious	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass		
Emissions	Subpart C 15.247	Section 11.11	C 15.247(d)			
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass		
Radiated Spurious	47 CFR Part 15,	ANSI C63.10 (2013)	47 CFR Part 15, Subpart	Pass		
Emissions	Subpart C 15.247	Section 6.4,6.5,6.6	C 15.205 & 15.209			

Emission Part							
Item	Standard	Method	Requirement	Result			
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass			



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Report No.: SZEM200800837802

Page: 4 of 111

Contents

			age
1	COVE	R PAGE	1
2	TEST :	SUMMARY	3
3	CONT	ENTS	4
4		RAL INFORMATION	
	4.1 D	DETAILS OF E.U.T	6
		DESCRIPTION OF SUPPORT UNITS	
		MEASUREMENT UNCERTAINTY	
		EST LOCATION EST FACILITY	
		DEVIATION FROM STANDARDS	
		ABNORMALITIES FROM STANDARD CONDITIONS	
5		PMENT LIST	
6		SPECTRUM TECHNICAL REQUIREMENT	
	6.1 A	NTENNA REQUIREMENT	
	• • • • • • • • • • • • • • • • • • • •	·	
7	RADIC	SPECTRUM MATTER TEST RESULTS	15
	7.1 C	CONDUCTED PEAK OUTPUT POWER	15
	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	
		MINIMUM 6DB BANDWIDTH	
	7.2.1 7.2.2	E.U.T. Operation Test Mode Description	
	7.2.2	Test Setup Diagram	
	7.2.4	Measurement Procedure and Data	
		OWER SPECTRUM DENSITY	
	7.3.1	E.U.T. Operation	18
	7.3.2	Test Mode Description	18
	7.3.3	Test Setup Diagram	
	7.3.4	Measurement Procedure and Data	
		CONDUCTED BAND EDGES MEASUREMENT	
	7.4.1	E.U.T. Operation	
	7.4.2	Test Mode Description	
	7.4.3 7.4.4	Test Setup Diagram Measurement Procedure and Data	
		CONDUCTED SPURIOUS EMISSIONS	
	7.5.1	E.U.T. Operation	
	7.5.7 7.5.2	Test Mode Description	
	7.5.3	Test Setup Diagram	
	7.5.4	Measurement Procedure and Data	
	7.6 R	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	



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Report No.: SZEM200800837802

Page: 5 of 111

	7.6.1	E.U.T. Operation	23
	7.6.2	Test Mode Description	23
	7.6.3	Test Setup Diagram	24
	7.6.4	Measurement Procedure and Data	
7	7.7 F	RADIATED SPURIOUS EMISSIONS	
	7.7.1	E.U.T. Operation	49
	7.7.2	Test Mode Description	
	7.7.3	Test Setup Diagram	
	7.7.4	Measurement Procedure and Data	51
8	EMISS	SION TEST RESULTS	72
8	3.1 C	CONDUCTED EMISSIONS AT AC POWER LINE (150KHz-30MHz)	72
	8.1.1	E.U.T. Operation	72
	8.1.2	Test Mode Description	72
	8.1.3	Test Setup Diagram	73
	8.1.4	Measurement Procedure and Data	
9	TEST	SETUP PHOTO	76
10	EUT C	CONSTRUCTIONAL DETAILS (EUT PHOTOS)	76
		•	
11	APPE	NDIX	77-111



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Report No.: SZEM200800837802

Page: 6 of 111

General Information

4.1 Details of E.U.T.

Rated voltage:	DC 12V
Test voltage:	DC 12V
Power adapter:	Model No.: JHD-AP036U-120300AA-A
	Input: AC 100-240V 50/60Hz 1.2A
	Output: DC 12V 3000mA
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)
	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	-1.7dBi

4.2 Description of Support Units

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

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.0dB (150kHz to 30MHz)
Conducted Peak Output Power	± 0.75dB
Minimum 6dB Bandwidth	± 3%
Power Spectrum Density	± 2.84dB
Conducted Band Edges Measurement	± 0.75dB
Conducted Spurious Emissions	± 0.75dB
Radiated Emissions which fall in the restricted bands	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)
Radiated Spurious Emissions	± 4.5dB (Below 1GHz);± 4.8dB (Above 1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR 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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Report No.: SZEM200800837802

Page: 7 of 111

4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 3816.01)

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

VCC

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. 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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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Report No.: SZEM200800837802

Page: 8 of 111

5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12	
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09	
LION	Rohde & Schwarz	ENV216	216 SEM007-01	2019-09-24	2020-09-23	
LISN				2020-09-22	2021-09-21	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31	
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23	

Minimum 6dB Bandwidth						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Chaotrum Angluzor	Rohde & Schwarz	FSP	SEM004 06	2019-09-24	2020-09-23	
Spectrum Analyzer	Ronde & Schwarz	F3P	SEM004-06	2020-09-22	2021-09-21	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Signal Congretor	KEVCICHT	NE472D	SEMONS OF	2019-09-24	2020-09-23	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-22	2021-09-21	
Dower Motor	Dobdo 9 Cobworz	NDVC	SEM044.02	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020-09-22	2021-09-21	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	



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Report No.: SZEM200800837802

Page: 9 of 111

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12	
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23	
Chooteum Anglyzor	Dobdo 9 Cobworz	ECD	SEM004 06	2019-09-24	2020-09-23	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2020-09-22	2021-09-21	
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09	
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A	
Cianal Consustan	KEVOLOUT	NE470D	CEMOOC OF	2019-09-24	2020-09-23	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-22	2021-09-21	
Dawer Mater	Dabda 9 Cabusara	NDVC	CEM044.02	2019-09-24	2020-09-23	
Power Meter	Rohde & Schwarz	NRVS SEM014-0	SEIVIU14-02	2020-09-22	2021-09-21	
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27	

Power Spectrum Density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Chaotrum Angluzor	Dobdo 9 Cobworz	ECD	SEM004 06	2019-09-24	2020-09-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2020-09-22	2021-09-21
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A
Cianal Constan	KEVOLOUT	NE470D	CEMOOC OF	2019-09-24	2020-09-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-22	2021-09-21
Dawar Matar	Dahda 9 Cahwara	NDVC	CEM044.02	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020-09-22	2021-09-21
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27



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Report No.: SZEM200800837802

Page: 10 of 111

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Chaetrum Angluzor	Dallata 0 Oal	FSP	SEM004-06	2019-09-24	2020-09-23
Spectrum Analyzer	Rohde & Schwarz	F3P	SEIVIUU4-06	2020-09-22	2021-09-21
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A
Signal Congretor	KEVSIOUT	N5173B	SEMONS OF	2019-09-24	2020-09-23
Signal Generator	KEYSIGHT		SEM006-05	2020-09-22	2021-09-21
Power Meter	Rohde & Schwarz	NRVS	0514044.00	2019-09-24	2020-09-23
Fower Weter	Runue & Schwarz	INKVS	SEM014-02	2020-09-22	2021-09-21
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Chastrum Analyzar	Rohde & Schwarz	FSP	SEM004 06	2019-09-24	2020-09-23
Spectrum Analyzer	Ronde & Schwarz	F3P	SEM004-06	2020-09-22	2021-09-21
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	N/A	N/A
Cianal Consustar	KEVOLOUT	NE470D	CEMOOC OF	2019-09-24	2020-09-23
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-22	2021-09-21
Dawar Matar	Dabda 9 Cabusara	NDVC	CEM044.00	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS S	SEM014-02	2020-09-22	2021-09-21
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27



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Report No.: SZEM200800837802

Page: 11 of 111

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
	0	DDI IA 0470	OEM000 45	2017-10-17	2020-10-16
Horn Antenna	Schwarzbeck BBHA 9170	SEM003-15	2020-10-15	2021-10-14	
	Compliance			2019-09-24	2020-09-23
Pre-Amplifier	Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-22	2021-09-21
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Dawar Cuart	7haa Via	IZVAL COOCD	CEM044 CC	2019-09-24	2020-09-23
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2020-09-22	2021-09-21
Anthur Lana Antaire	ETO Lindana	0500	OEM000 00	2017-08-22	2020-08-21
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-20	2021-08-19



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Report No.: SZEM200800837802

Page: 12 of 111

Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Llows Antonno	Cabusarehaale	DDIIA 0470	O SEM003-15	2017-10-17	2020-10-16
Horn Antenna	Schwarzbeck BBHA 917	BBHA 9170		2020-10-15	2021-10-14
	Compliance			2019-09-24	2020-09-23
Pre-Amplifier	Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-22	2021-09-21
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Dower Cupply	7haa Vin	KAN 6030D	SEM044 00	2019-09-24	2020-09-23
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2020-09-22	2021-09-21
Active Lean Antenna	CTC Lindara	6500	SEM003.00	2017-08-22	2020-08-21
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2020-08-20	2021-08-19

Radiated Emissions (below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-08-03	2023-08-02
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31



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Report No.: SZEM200800837802

Page: 13 of 111

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature	Shanghai			2019-09-26	2020-09-25
Indicator	Meteorological Industry Factory	ZJ1-2B SEM002-		2020-09-24	2021-09-23
Humidity/ Temperature	Shanghai			2019-09-26	2020-09-25
Indicator	Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-24	2021-09-23
Humidity/ Temperature	Minalo	NI/A	CEMOOD OO	2019-09-26	2020-09-25
Indicator	Mingle	N/A	SEM002-08	2020-09-24	2021-09-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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Report No.: SZEM200800837802

Page: 14 of 111

Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

Limit:

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.7dBi.

Antenna location: Refer to Internal photos.



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Report No.: SZEM200800837802

Page: 15 of 111

7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247
Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)	
	1 for ≥50 hopping channels	
902-928	0.25 for 25≤ hopping channels <50	
	1 for digital modulation	
	1 for ≥75 non-overlapping hopping channels	
2400-2483.5	0.125 for all other frequency hopping systems	
	1 for digital modulation	
5725-5850	25-5850 1 for frequency hopping systems and digital modulation	

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 55.5 % RH Atmospheric Pressure: 1000 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20)Only the data of worst case is recorded in the report.



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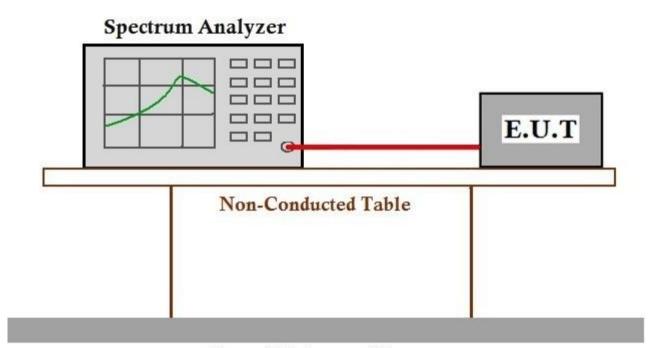
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Report No.: SZEM200800837802

Page: 16 of 111

7.1.3 Test Setup Diagram



Ground Reference Plane

7.1.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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Page: 17 of 111

7.2 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247
Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

7.2.1 E.U.T. Operation

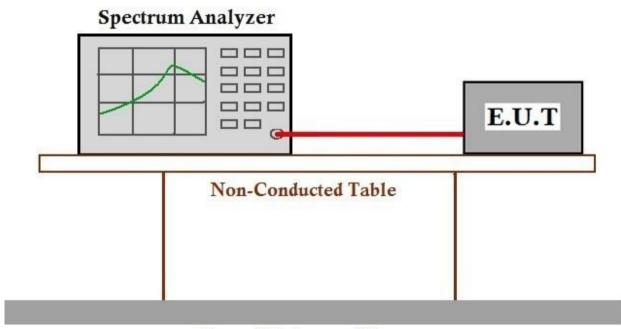
Operating Environment:

Temperature: 23.6 °C Humidity: 55.5 % RH Atmospheric Pressure: 1000 mbar

7.2.2 Test Mode Description

	· · · · · · · · · · · · · · · · · · ·				
Pre-scan / Final test	Mode Code	Description			
Final test	02	TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20)Only the data of worst case is recorded in the report.			

7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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Report No.: SZEM200800837802

Page: 18 of 111

7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247 Test Method: ANSI C63.10 (2013) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.3.1 E.U.T. Operation

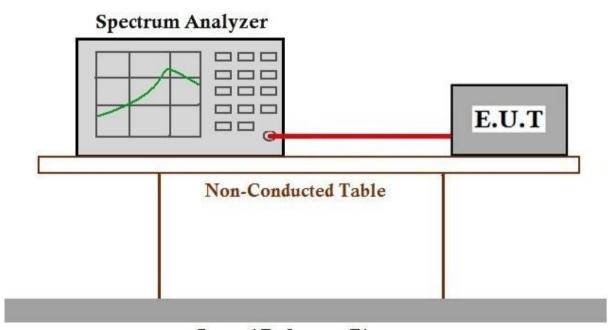
Operating Environment:

Humidity: 55.5 % RH Temperature: 23.6 °C Atmospheric Pressure: 1000 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20)Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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Report No.: SZEM200800837802

Page: 19 of 111

7.4 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247 Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 55.5 % RH Atmospheric Pressure: 1000 mbar

7.4.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20)Only the data of worst case is recorded in the report.



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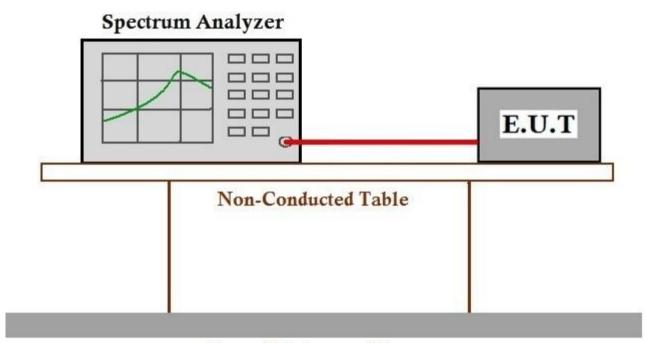
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Report No.: SZEM200800837802

Page: 20 of 111

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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Report No.: SZEM200800837802

Page: 21 of 111

7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247
Test Method: ANSI C63.10 (2013) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 55.5 % RH Atmospheric Pressure: 1000 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20)Only the data of worst case is recorded in the report.



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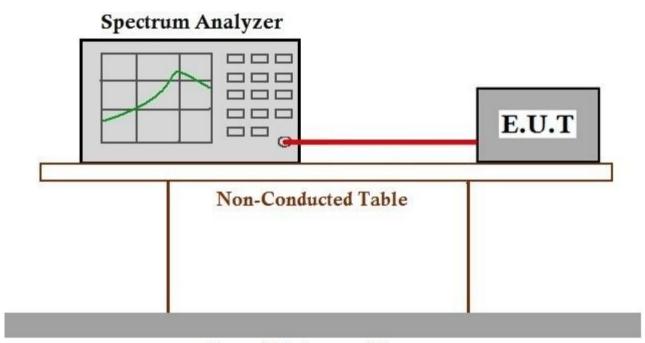
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Report No.: SZEM200800837802

Page: 22 of 111

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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Report No.: SZEM200800837802

Page: 23 of 111

7.6 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15.205 & 15.209 **Test Requirement**

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

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

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.

7.6.1 E.U.T. Operation

Operating Environment:

23.5 °C Temperature: Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

		•
Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20)Only the data of worst case is recorded in the report.



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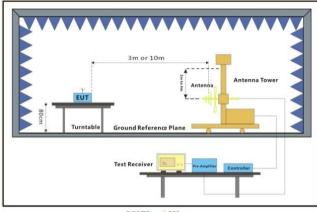
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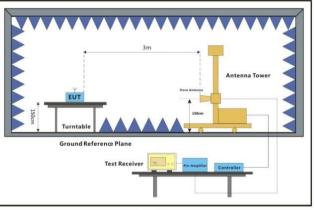


Report No.: SZEM200800837802

Page: 24 of 111

7.6.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.6.4 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: 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.



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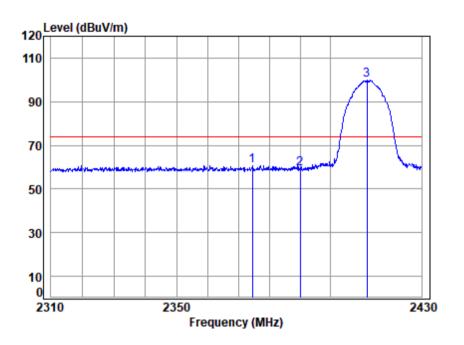
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Report No.: SZEM200800837802

Page: 25 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2412 Band edge Note · 2 4G WTFT 11B

ote	. 2.	+Q MIL	1 110							
		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	2374.526	4.32	28.49	40.97	69.06	60.90	74.00	-13.10	peak	
2	2390.000	4.34	28.52	40.97	67.39	59.28	74.00	-14.72	peak	
3 *	2412.000	4.38	28.56	40.98	107.76	99.72	74.00	25.72	peak	



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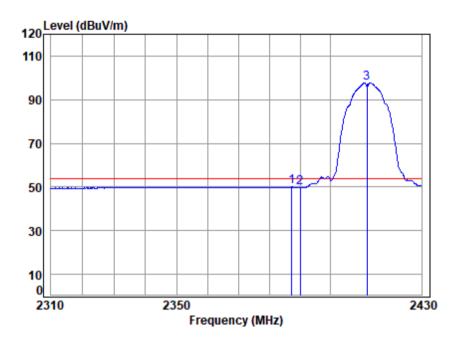
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Report No.: SZEM200800837802

Page: 26 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2412 Band edge · 2 4G WTFT 11B Note

_	. 2	+O MII	1 110							
		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		
	2387.307	4.34	28.51	40.97	58.12	50.00	54.00	-4.00	Average	
	2390.000	4.34	28.52	40.97	57.92	49.81	54.00	-4.19	Average	
*	2412.000	4.38	28.56	40.98	105.74	97.70	54.00	43.70	Average	



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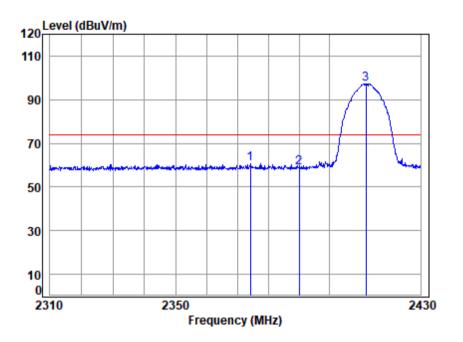
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Report No.: SZEM200800837802

Page: 27 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2412 Band edge Note · 2 4G WTFT 11B

, ce	. 2	+CI MIL	1 110							
		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	2374.165	4.32	28.49	40.97	68.65	60.49	74.00	-13.51	Peak	
2	2390.000	4.34	28.52	40.97	66.77	58.66	74.00	-15.34	Peak	
3 *	2412.000	4.38	28.56	40.98	105.34	97.30	74.00	23.30	Peak	



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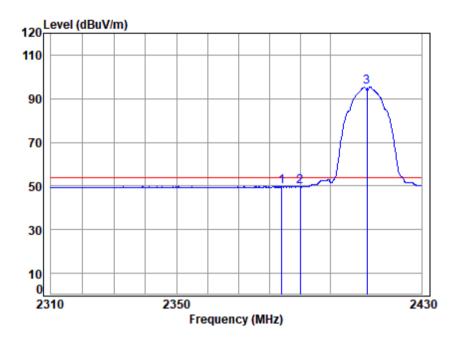
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Report No.: SZEM200800837802

Page: 28 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2412 Band edge Note : 2.4G WIFI 11B

	Freq						Limit Line		Remark
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2384.045 2390.000 2412.000	4.34	28.52	40.97	57.69	49.58	54.00	-4.42	Average



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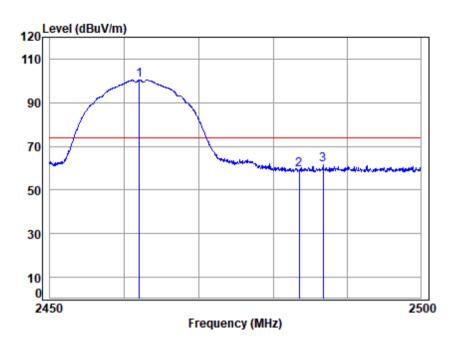
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Report No.: SZEM200800837802

Page: 29 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2462 Band edge · 2 4G WTFT 11B Note

Le	. 2.	+G MTL	1 110							
		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		
*	2462.000	4.46	28.64	41.00	108.24	100.34	74.00	26.34	peak	
)	2483.500	4.49	28.67	41.01	67.10	59.25	74.00	-14.75	peak	
3	2486.752	4.50	28.68	41.01	69.41	61.58	74.00	-12.42	peak	



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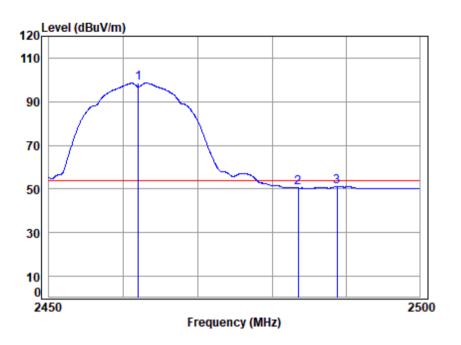
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Report No.: SZEM200800837802

Page: 30 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2462 Band edge · 2 4G WTFT 11B Note

. –	. 2.4	+Q MIL	1 110							
		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		
*	2462.000	4.46	28.64	41.00	106.37	98.47	54.00	44.47	Average	
	2483.500	4.49	28.67	41.01	58.29	50.44	54.00	-3.56	Average	
	2488.762	4.50	28.68	41.01	59.10	51.27	54.00	-2.73	Average	



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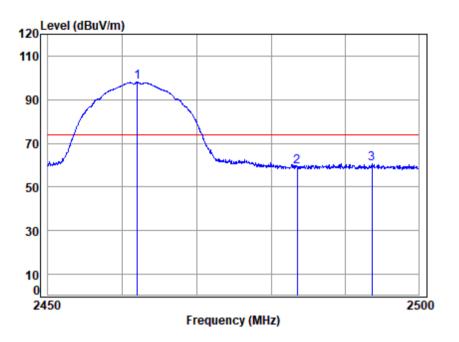
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Report No.: SZEM200800837802

Page: 31 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2462 Band edge · 2 4G WTFT 11B Note

_	. 2.	TO MIL	1 110						
		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	
*	2462.000	4.46	28.64	41.00	105.87	97.97	74.00	23.97	Peak
	2483.500	4.49	28.67	41.01	67.07	59.22	74.00	-14.78	Peak
	2493.644	4.51	28.69	41.01	68.60	60.79	74.00	-13.21	Peak



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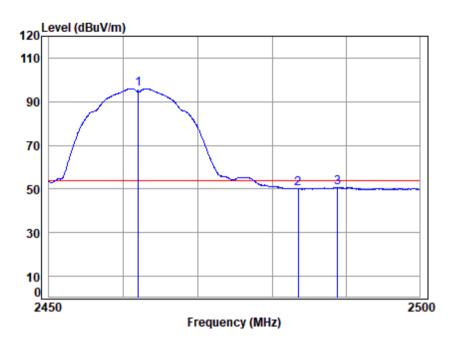
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Report No.: SZEM200800837802

Page: 32 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2462 Band edge Note : 2.4G WIFI 11B

		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		
*	2462.000	4.46	28.64	41.00	103.93	96.03	54.00	42.03	Average	
	2483.500	4.49	28.67	41.01	57.89	50.04	54.00	-3.96	Average	
	2488.863	4.50	28.68	41.01	58.58	50.75	54.00	-3.25	Average	



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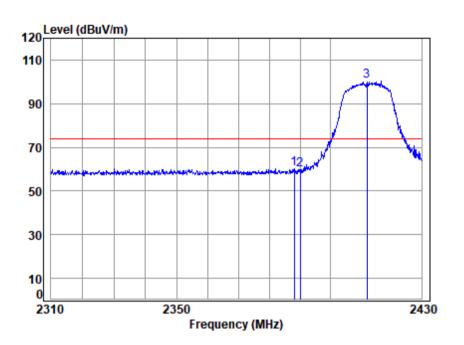
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Report No.: SZEM200800837802

Page: 33 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2412 Band edge Note · 2 4G WTFT 11G

, ce	. 2.4d WIFI 11d									
		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	2388.032	4.34	28.52	40.97	68.52	60.41	74.00	-13.59	peak	
2	2390.000	4.34	28.52	40.97	67.77	59.66	74.00	-14.34	peak	
3 *	2412.000	4.38	28.56	40.98	108.60	100.56	74.00	26.56	peak	



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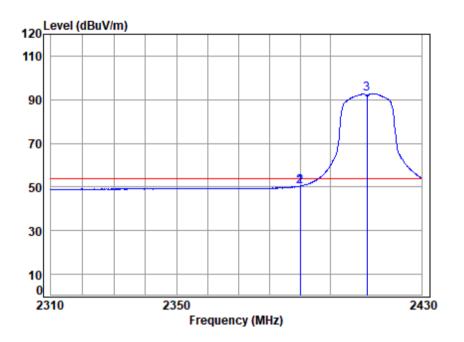
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Report No.: SZEM200800837802

Page: 34 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2412 Band edge · 2 4G WTFT 11G Note

_	. 2	TO WILL	1 110							
		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		
	2389.968	4.34	28.52	40.97	58.51	50.40	54.00	-3.60	Average	
	2390.000	4.34	28.52	40.97	58.51	50.40	54.00	-3.60	Average	
*	2412.000	4.38	28.56	40.98	100.88	92.84	54.00	38.84	Average	



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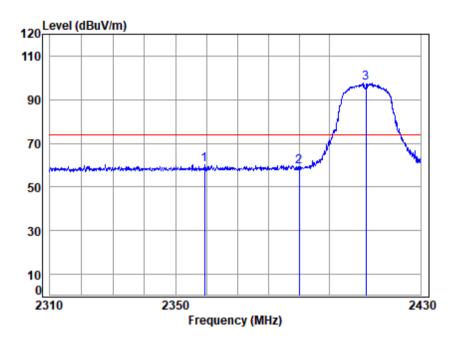
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Report No.: SZEM200800837802

Page: 35 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2412 Band edge · 2 4G WTFT 11G Note

_	. 2	TO WILL	1 110							
		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	2359.302	4.29	28.47	40.96	68.58	60.38	74.00	-13.62	Peak	
2	2390.000	4.34	28.52	40.97	67.26	59.15	74.00	-14.85	Peak	
*	2412.000	4.38	28.56	40.98	105.83	97.79	74.00	23.79	Peak	



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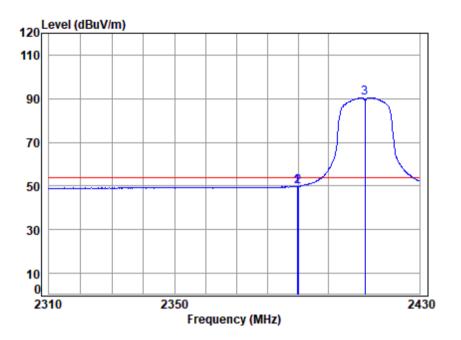
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Report No.: SZEM200800837802

Page: 36 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2412 Band edge · 2 4G WTFT 11G Note

_	. 2.	40 MII	1 110							
		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		
	2389.726	4.34	28.52	40.97	58.03	49.92	54.00	-4.08	Average	
	2390.000	4.34	28.52	40.97	57.93	49.82	54.00	-4.18	Average	
*	2412.000	4.38	28.56	40.98	98.53	90.49	54.00	36.49	Average	



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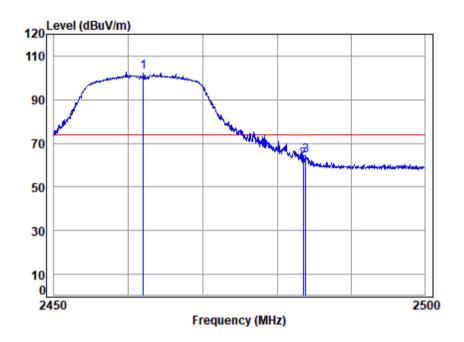
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Report No.: SZEM200800837802

Page: 37 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

					Read					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 '	* 2462.000	4.46	28.64	41.00	110.47	102.57	74.00	28.57	peak	
2	2483.500	4.49	28.67	41.01	70.44	62.59	74.00	-11.41	peak	
3	2483.840	4.49	28.67	41.01	71.96	64.11	74.00	-9.89	peak	



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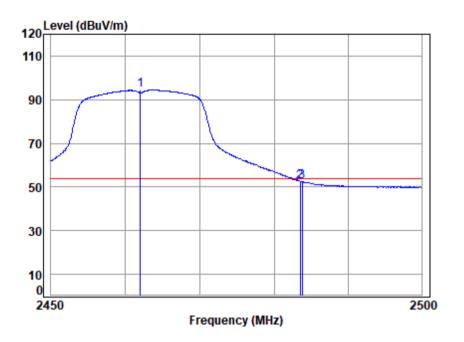
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Report No.: SZEM200800837802

Page: 38 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	2483.500	4.49	28.67	41.01	60.47	52.62	54.00	-1.38	Average Average
3	2483.790	4.49	28.67	41.01	60.36	52.51	54.00	-1.49	Average



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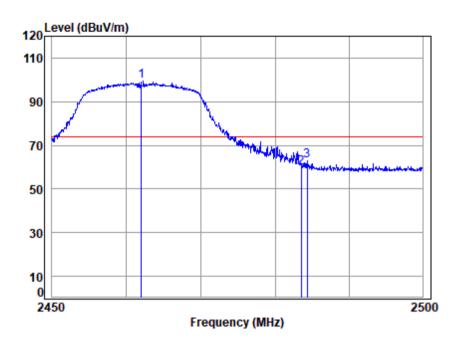
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Report No.: SZEM200800837802

Page: 39 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2462 Band edge · 2 4G WTFT 11G Note

_	. 2.	TO MIL	1 110							
		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		
*	2462.000	4.46	28.64	41.00	107.45	99.55	74.00	25.55	Peak	
	2483.500	4.49	28.67	41.01	67.64	59.79	74.00	-14.21	Peak	
	2484.342	4.50	28.67	41.01	70.67	62.83	74.00	-11.17	Peak	



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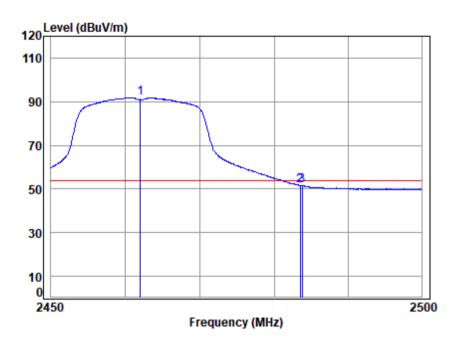
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Report No.: SZEM200800837802

Page: 40 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2462 Band edge Note : 2.4G WIFI 11G

	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	* 2462.000	4.46	28.64	41.00	99.64	91.74	54.00	37.74	Average
2	2483.500	4.49	28.67	41.01	59.45	51.60	54.00	-2.40	Average
3	2483.790	4.49	28.67	41.01	59.37	51.52	54.00	-2.48	Average



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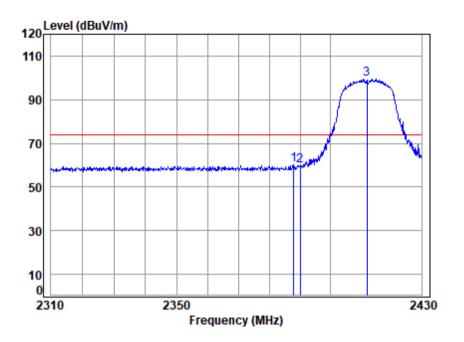
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Report No.: SZEM200800837802

Page: 41 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2412 Band edge Note · 2 4G WTFT 11N20

, ce	. 2	+G MII	1 1111/20	0						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2387.912	4.34	28.51	40.97	68.44	60.32	74.00	-13.68	peak	
2	2390.000	4.34	28.52	40.97	68.01	59.90	74.00	-14.10	peak	
3 *	2412.000	4.38	28.56	40.98	107.60	99.56	74.00	25.56	peak	



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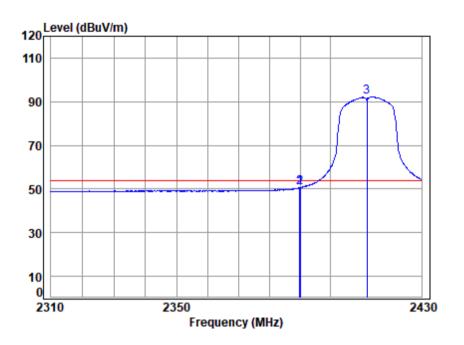
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Report No.: SZEM200800837802

Page: 42 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2412 Band edge Note : 2.4G 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		
	2389.847	4.34	28.52	40.97	58.69	50.58	54.00	-3.42	Average	
	2390.000	4.34	28.52	40.97	58.68	50.57	54.00	-3.43	Average	
*	2412.000	4.38	28.56	40.98	100.20	92.16	54.00	38.16	Average	



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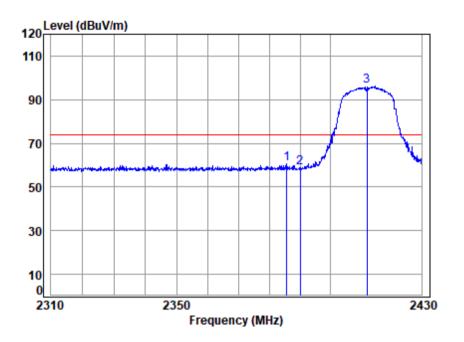
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Report No.: SZEM200800837802

Page: 43 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2412 Band edge · 2 4G WTFT 11N20 Note

_	. 2.	AG MII	1 1111/2							
		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		
	2385.736	4.34	28.51	40.97	68.60	60.48	74.00	-13.52	Peak	
	2390.000	4.34	28.52	40.97	66.76	58.65	74.00	-15.35	Peak	
*	2412.000	4.38	28.56	40.98	104.36	96.32	74.00	22.32	Peak	



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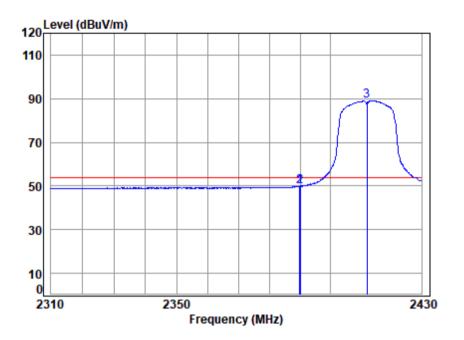
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Report No.: SZEM200800837802

Page: 44 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2412 Band edge Note : 2.4G WIFI 11N20

_	. 2.	40 MII	1 1111/21							
		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		
	2389.847	4.34	28.52	40.97	57.96	49.85	54.00	-4.15	Average	
	2390.000	4.34	28.52	40.97	57.91	49.80	54.00	-4.20	Average	
*	2412.000	4.38	28.56	40.98	97.03	88.99	54.00	34.99	Average	



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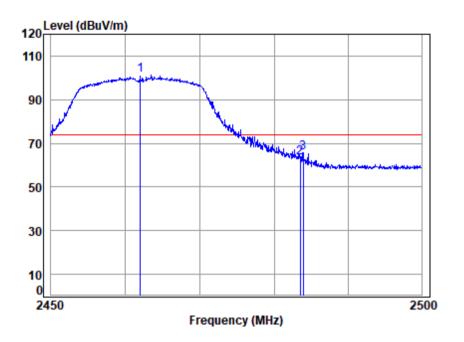
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Report No.: SZEM200800837802

Page: 45 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2462 Band edge · 2 4G WTFT 11N20 Note

oce	. 2	+Q MII	1 111/2	0						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 *	2462.000	4.46	28.64	41.00	109.18	101.28	74.00	27.28	peak	
2	2483.500	4.49	28.67	41.01	71.32	63.47	74.00	-10.53	peak	
3	2483.940	4.49	28.67	41.01	73.61	65.76	74.00	-8.24	peak	



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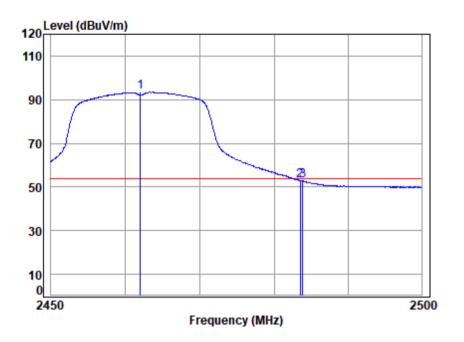
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Report No.: SZEM200800837802

Page: 46 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2462 Band edge Note : 2.4G 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		
*	2462.000	4.46	28.64	41.00	101.30	93.40	54.00	39.40	Average	
	2483.500	4.49	28.67	41.01	60.91	53.06	54.00	-0.94	Average	
	2483.890	4.49	28.67	41.01	60.61	52.76	54.00	-1.24	Average	



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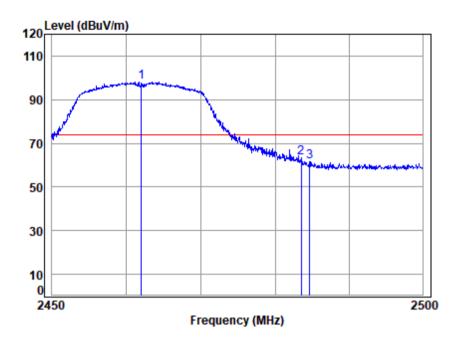
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Report No.: SZEM200800837802

Page: 47 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2462 Band edge · 2 4G WTFT 11N20 Note

LE	. 2.4	+G MTL	T TTIVE	0						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
*	2462.000	4.46	28.64	41.00	106.15	98.25	74.00	24.25	Peak	
)	2483.500	4.49	28.67	41.01	71.07	63.22	74.00	-10.78	Peak	
3	2484.643	4.50	28.68	41.01	69.64	61.81	74.00	-12.19	Peak	



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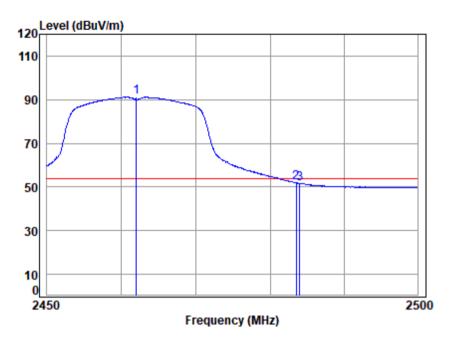
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Report No.: SZEM200800837802

Page: 48 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2462 Band edge · 2 4G WTFT 11N20 Note

	. 2.	+G MIL	T TTIVE	9						
		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		
*	2462.000	4.46	28.64	41.00	99.05	91.15	54.00	37.15	Average	
	2483.500	4.49	28.67	41.01	59.92	52.07	54.00	-1.93	Average	
	2483.990	4.49	28.67	41.01	59.60	51.75	54.00	-2.25	Average	



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Report No.: SZEM200800837802

Page: 49 of 111

7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

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			

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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20).Only the data of worst case is recorded in the report.



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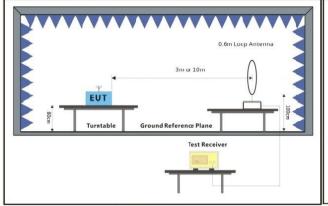
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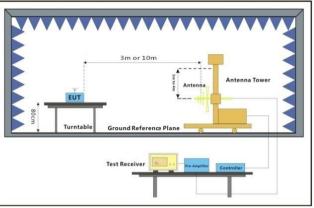


Report No.: SZEM200800837802

Page: 50 of 111

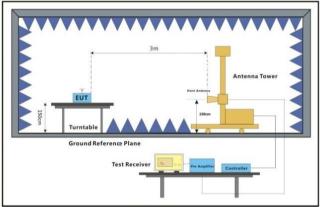
7.7.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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Report No.: SZEM200800837802

Page: 51 of 111

7.7.4 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) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and 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) 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.



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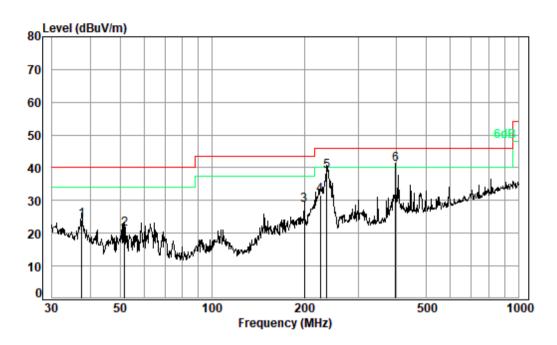
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Report No.: SZEM200800837802

Page: 52 of 111

Test Mode: 02; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 08378CR

Test Mode: 02

		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	37.55	0.68	18.60	27.71	32.51	24.08	40.00	-15.92	QP
2	51.84	0.72	14.00	27.68	34.23	21.27	40.00	-18.73	QP
3	199.99	1.20	16.50	27.14	38.18	28.74	43.50	-14.76	QP
4	225.31	1.44	17.64	27.06	39.69	31.71	46.00	-14.29	QP
5	236.64	1.53	18.54	27.03	45.82	38.86	46.00	-7.14	QP
6 pp	396.24	2.29	22.31	27.38	43.72	40.94	46.00	-5.06	QP



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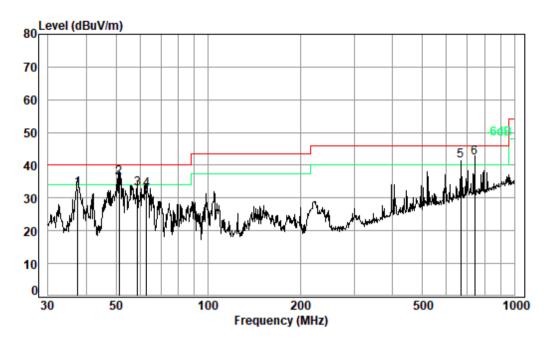
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Report No.: SZEM200800837802

Page: 53 of 111

Test Mode: 02; Polarity: Vertical



Condition: 3m VERTICAL Job No. : 08378CR

Test Mode: 02

				Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	37.55	0.68	18.60	27.71	41.39	32.96	40.00	-7.04	QP
2	51.12	0.71	14.08	27.68	49.09	36.20	40.00	-3.80	QP
3	58.82	0.79	13.31	27.67	46.52	32.95	40.00	-7.05	QP
4	62.87	0.80	13.08	27.66	46.22	32.44	40.00	-7.56	QP
5	668.14	2.84	27.51	27.98	38.97	41.34	46.00	-4.66	QP
6 pp	742.26	3.08	28.16	27.83	38.99	42.40	46.00	-3.60	OP



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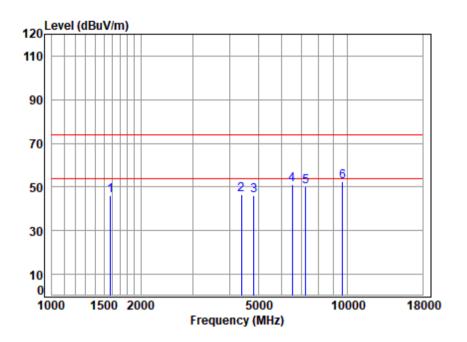
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Page: 54 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL
Job No : 08378CR/08379CR
Mode : 2412 TX RSE
Note : 2.4G WIFI 11B

		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	1578.822	3.33	26.16	40.56	57.22	46.15	74.00	-27.85	peak
2	4379.699	6.65	33.39	42.46	48.84	46.42	74.00	-27.58	peak
3	4824.000	7.12	34.00	42.78	47.95	46.29	74.00	-27.71	peak
4	6526.373	8.29	35.62	41.94	48.96	50.93	74.00	-23.07	peak
5	7236.000	8.77	36.09	41.56	46.77	50.07	74.00	-23.93	peak
6	9648.000	10.79	37.69	38.51	42.56	52.53	74.00	-21.47	peak



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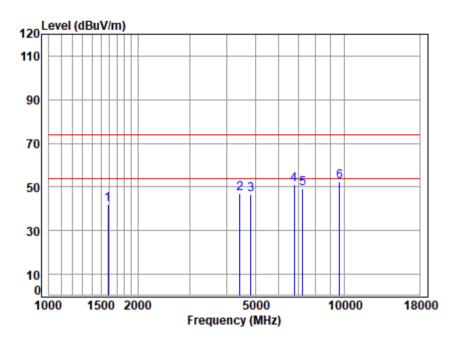
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Report No.: SZEM200800837802

Page: 55 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2412 TX RSE

Note : 2.4G WIFI 11B

	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		
1507 075	2 24	26.20	40 50	F2 46	42 44	74.00	24 06		
1587.975	3.34	26.20	40.56	53.16	42.14	74.00	-31.86	реак	
4443.453	6.71	33.50	42.51	49.27	46.97	74.00	-27.03	peak	
4824.000	7.12	34.00	42.78	48.25	46.59	74.00	-27.41	peak	
6776.265	8.43	35.77	41.80	48.66	51.06	74.00	-22.94	peak	
7236.000	8.77	36.09	41.56	45.96	49.26	74.00	-24.74	peak	
9648.000	10.79	37.69	38.51	42.68	52.65	74.00	-21.35	peak	
	MHz 1587.975 4443.453 4824.000 6776.265 7236.000	Freq Loss MHz dB 1587.975 3.34 4443.453 6.71 4824.000 7.12 6776.265 8.43 7236.000 8.77	Freq Loss Factor MHz dB dB/m 1587.975 3.34 26.20 4443.453 6.71 33.50 4824.000 7.12 34.00 6776.265 8.43 35.77 7236.000 8.77 36.09	Freq Loss Factor Factor MHz dB dB/m dB 1587.975 3.34 26.20 40.56 4443.453 6.71 33.50 42.51 4824.000 7.12 34.00 42.78 6776.265 8.43 35.77 41.80 7236.000 8.77 36.09 41.56	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1587.975 3.34 26.20 40.56 53.16 4443.453 6.71 33.50 42.51 49.27 4824.000 7.12 34.00 42.78 48.25 6776.265 8.43 35.77 41.80 48.66 7236.000 8.77 36.09 41.56 45.96	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1587.975 3.34 26.20 40.56 53.16 42.14 4443.453 6.71 33.50 42.51 49.27 46.97 4824.000 7.12 34.00 42.78 48.25 46.59 6776.265 8.43 35.77 41.80 48.66 51.06 7236.000 8.77 36.09 41.56 45.96 49.26	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1587.975 3.34 26.20 40.56 53.16 42.14 74.00 4443.453 6.71 33.50 42.51 49.27 46.97 74.00 4824.000 7.12 34.00 42.78 48.25 46.59 74.00 6776.265 8.43 35.77 41.80 48.66 51.06 74.00 7236.000 8.77 36.09 41.56 45.96 49.26 74.00	Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 1587.975 3.34 26.20 40.56 53.16 42.14 74.00 -31.86 4443.453 6.71 33.50 42.51 49.27 46.97 74.00 -27.03 4824.000 7.12 34.00 42.78 48.25 46.59 74.00 -27.41 6776.265 8.43 35.77 41.80 48.66 51.06 74.00 -22.94 7236.000 8.77 36.09 41.56 45.96 49.26 74.00 -24.74	Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 1587.975 3.34 26.20 40.56 53.16 42.14 74.00 -31.86 peak 4443.453 6.71 33.50 42.51 49.27 46.97 74.00 -27.03 peak 4824.000 7.12 34.00 42.78 48.25 46.59 74.00 -27.41 peak



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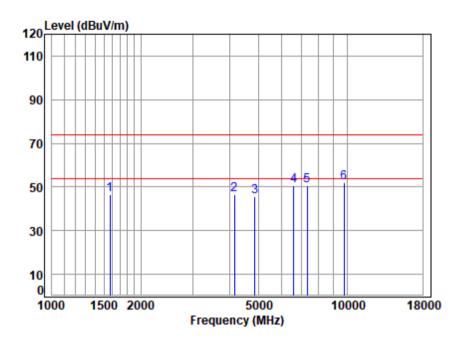
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Report No.: SZEM200800837802

Page: 56 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL
Job No : 08378CR/08379CR
Mode : 2437 TX RSE
Note : 2.4G WIFI 11B

		10 111	1 110						
		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	1574.265	3.33	26.14	40.55	57.67	46.59	74.00	-27.41	peak
2	4145.664	6.43	32.97	42.28	49.39	46.51	74.00	-27.49	peak
3	4874.000	7.17	34.05	42.82	47.13	45.53	74.00	-28.47	peak
4	6583.209	8.32	35.65	41.91	48.47	50.53	74.00	-23.47	peak
5	7311.000	8.84	36.15	41.53	47.24	50.70	74.00	-23.30	peak
6	9748.000	10.76	37.75	38.37	42.04	52.18	74.00	-21.82	peak
									•



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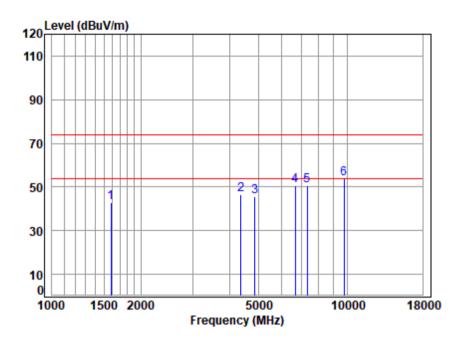
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Report No.: SZEM200800837802

Page: 57 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2437 TX RSE

Note : 2.4G WIFI 11B

				Preamp			Limit		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	3.33	26.18	40.56	53.77	42.72	74.00	-31.28	peak
2	4367.058	6.64	33.37	42.45	49.03	46.59	74.00	-27.41	peak
3	4874.000	7.17	34.05	42.82	47.24	45.64	74.00	-28.36	peak
4	6659.763	8.37	35.70	41.86	48.25	50.46	74.00	-23.54	peak
5	7311.000	8.84	36.15	41.53	47.09	50.55	74.00	-23.45	peak
6	9748.000	10.76	37.75	38.37	43.67	53.81	74.00	-20.19	peak



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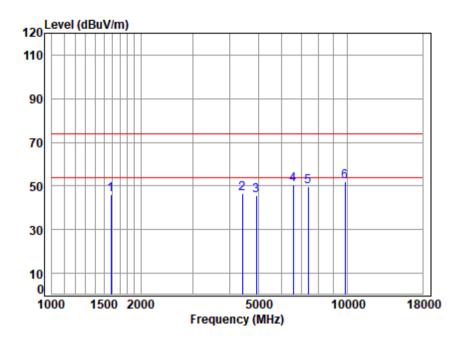
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Report No.: SZEM200800837802

Page: 58 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL
Job No : 08378CR/08379CR
Mode : 2462 TX RSE
Note : 2.4G WIFI 11B

0.0		10 111	1 110						
		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	1587.975	3.34	26.20	40.56	57.03	46.01	74.00	-27.99	peak
2	4417.841	6.68	33.46	42.49	48.97	46.62	74.00	-27.38	peak
3	4924.000	7.22	34.11	42.85	47.16	45.64	74.00	-28.36	peak
4	6564.209	8.31	35.64	41.92	48.72	50.75	74.00	-23.25	peak
5	7386.000	8.91	36.21	41.49	46.23	49.86	74.00	-24.14	peak
6	9848.000	10.73	37.81	38.22	41.70	52.02	74.00	-21.98	peak
									-



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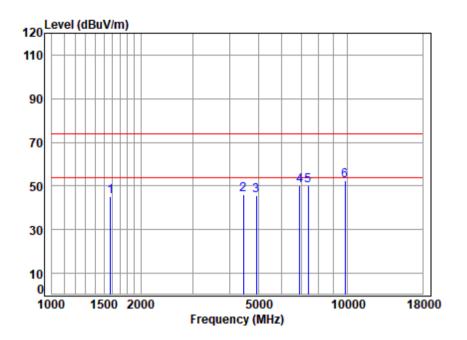
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Report No.: SZEM200800837802

Page: 59 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2462 TX RSE

Note : 2.4G WIFI 11B

		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	1578.822	3.33	26.16	40.56	56.46	45.39	74.00	-28.61	peak
2	4456.315	6.72	33.53	42.52	48.48	46.21	74.00	-27.79	peak
3	4924.000	7.22	34.11	42.85	47.13	45.61	74.00	-28.39	peak
4	6914.763	8.50	35.85	41.73	47.80	50.42	74.00	-23.58	peak
5	7386.000	8.91	36.21	41.49	46.55	50.18	74.00	-23.82	peak
6	9848.000	10.73	37.81	38.22	42.11	52.43	74.00	-21.57	peak



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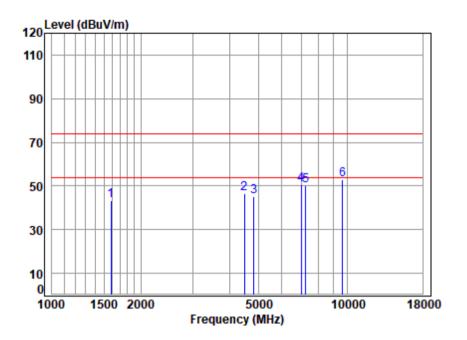
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Report No.: SZEM200800837802

Page: 60 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2412 TX RSE Note : 2.4G WIFI 11G

		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	1583.392	3.33	26.18	40.56	54.33	43.28	74.00	-30.72	peak
2	4495.125	6.76	33.59	42.55	48.54	46.34	74.00	-27.66	peak
3	4824.000	7.12	34.00	42.78	46.81	45.15	74.00	-28.85	peak
4	6995.172	8.54	35.90	41.69	48.01	50.76	74.00	-23.24	peak
5	7236.000	8.77	36.09	41.56	46.78	50.08	74.00	-23.92	peak
6	9648.000	10.79	37.69	38.51	43.15	53.12	74.00	-20.88	peak



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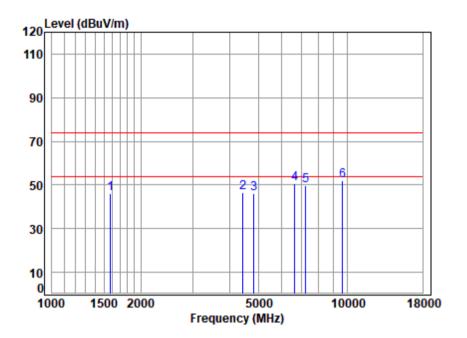
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Report No.: SZEM200800837802

Page: 61 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2412 TX RSE

Note : 2.4G WIFI 11G

	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
								
MHZ	dB	dB/m	dВ	dBuV	dBuV/m	dBuV/m	dB	
1578.822	3.33	26.16	40.56	57.24	46.17	74.00	-27.83	peak
								•
4824.000	7.12	34.00	42.78	47.72	46.06	74.00	-27.94	peak
6640.542	8.36	35.69	41.87	48.33	50.51	74.00	-23.49	peak
7236.000	8.77	36.09	41.56	46.59	49.89	74.00	-24.11	peak
9648.000	10.79	37.69	38.51	42.27	52.24	74.00	-21.76	peak
	MHz 1578.822 4430.628 4824.000 6640.542 7236.000	Freq Loss MHz dB 1578.822 3.33 4430.628 6.70 4824.000 7.12 6640.542 8.36 7236.000 8.77	Freq Loss Factor MHz dB dB/m 1578.822 3.33 26.16 4430.628 6.70 33.48 4824.000 7.12 34.00 6640.542 8.36 35.69 7236.000 8.77 36.09	Freq Loss Factor Factor MHz dB dB/m dB 1578.822 3.33 26.16 40.56 4430.628 6.70 33.48 42.50 4824.000 7.12 34.00 42.78 6640.542 8.36 35.69 41.87 7236.000 8.77 36.09 41.56	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1578.822 3.33 26.16 40.56 57.24 4430.628 6.70 33.48 42.50 48.96 4824.000 7.12 34.00 42.78 47.72 6640.542 8.36 35.69 41.87 48.33 7236.000 8.77 36.09 41.56 46.59	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1578.822 3.33 26.16 40.56 57.24 46.17 4430.628 6.70 33.48 42.50 48.96 46.64 4824.000 7.12 34.00 42.78 47.72 46.06 6640.542 8.36 35.69 41.87 48.33 50.51 7236.000 8.77 36.09 41.56 46.59 49.89	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1578.822 3.33 26.16 40.56 57.24 46.17 74.00 4430.628 6.70 33.48 42.50 48.96 46.64 74.00 4824.000 7.12 34.00 42.78 47.72 46.06 74.00 6640.542 8.36 35.69 41.87 48.33 50.51 74.00 7236.000 8.77 36.09 41.56 46.59 49.89 74.00	Cable Ant Preamp Freq Loss Factor Factor Read Level Level Limit Limit Over Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 1578.822 3.33 26.16 40.56 57.24 46.17 74.00 -27.83 4430.628 6.70 33.48 42.50 48.96 46.64 74.00 -27.36 4824.000 7.12 34.00 42.78 47.72 46.06 74.00 -27.94 6640.542 8.36 35.69 41.87 48.33 50.51 74.00 -23.49 7236.000 8.77 36.09 41.56 46.59 49.89 74.00 -24.11 9648.000 10.79 37.69 38.51 42.27 52.24 74.00 -21.76



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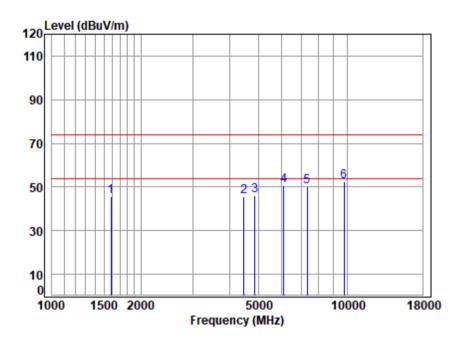
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Report No.: SZEM200800837802

Page: 62 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2437 TX RSE Note : 2.4G WIFI 11G

		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	1502 202	2 22	26 10	40 50	FC F0	45 45	74.00	20 55	
T	1583.392	3.33	20.10	40.56	56.50	45.45	74.00	-20.55	peak
2	4469.214	6.73	33.55	42.53	48.03	45.78	74.00	-28.22	peak
3	4874.000	7.17	34.05	42.82	47.51	45.91	74.00	-28.09	peak
4	6106.616	8.26	35.21	42.18	49.16	50.45	74.00	-23.55	peak
5	7311.000	8.84	36.15	41.53	46.86	50.32	74.00	-23.68	peak
6	9748.000	10.76	37.75	38.37	42.27	52.41	74.00	-21.59	peak



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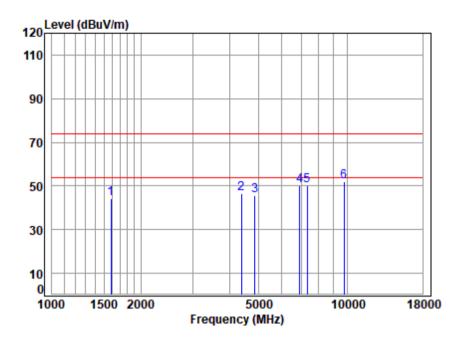
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Report No.: SZEM200800837802

Page: 63 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2437 TX RSE

Note : 2.4G WIFI 11G

		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	1587.975	3.34	26.20	40.56	55.06	44.04	74.00	-29.96	peak	
2	4392.376	6.66	33.42	42.47	48.87	46.48	74.00	-27.52	peak	
3	4874.000	7.17	34.05	42.82	47.41	45.81	74.00	-28.19	peak	
4	6894.806	8.49	35.84	41.74	47.77	50.36	74.00	-23.64	peak	
5	7311.000	8.84	36.15	41.53	46.70	50.16	74.00	-23.84	peak	
6	9748.000	10.76	37.75	38.37	42.06	52.20	74.00	-21.80	peak	



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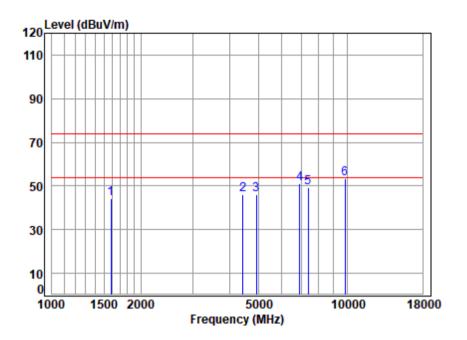
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Report No.: SZEM200800837802

Page: 64 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2462 TX RSE Note · 2 4G WTFT 11G

oce	. 2	+G MII	1 110						
		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	1583.392	3.33	26.18	40.56	55.48	44.43	74.00	-29.57	peak
2	4443.453	6.71	33.50	42.51	48.31	46.01	74.00	-27.99	peak
3	4924.000	7.22	34.11	42.85	47.50	45.98	74.00	-28.02	peak
4	6914.763	8.50	35.85	41.73	48.59	51.21	74.00	-22.79	peak
5	7386.000	8.91	36.21	41.49	45.66	49.29	74.00	-24.71	peak
6	9848.000	10.73	37.81	38.22	42.93	53.25	74.00	-20.75	peak



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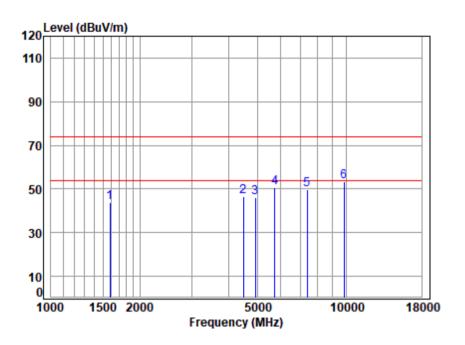
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Report No.: SZEM200800837802

Page: 65 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2462 TX RSE

Note : 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
						JD: 3//	JD: A//			
	MHz	dB	ab/m	dB	abuv	abuv/m	abuv/m	dB		
1	1587.975	3.34	26.20	40.56	55.01	43.99	74.00	-30.01	peak	
2	4495.125	6.76	33.59	42.55	48.87	46.67	74.00	-27.33	peak	
3	4924.000	7.22	34.11	42.85	47.60	46.08	74.00	-27.92	peak	
4	5730.396	8.22	34.84	42.41	49.88	50.53	74.00	-23.47	peak	
5	7386.000	8.91	36.21	41.49	45.99	49.62	74.00	-24.38	peak	
6	9848.000	10.73	37.81	38.22	42.97	53.29	74.00	-20.71	peak	



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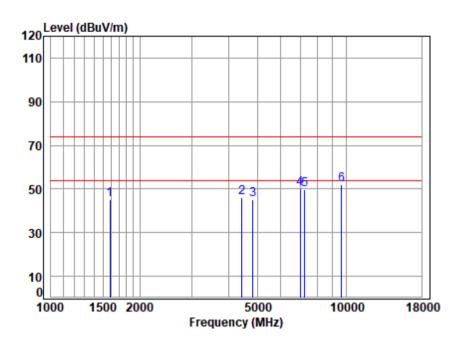
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Report No.: SZEM200800837802

Page: 66 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2412 TX RSE

Note : 2.4G 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	1583.392	3.33	26.18	40.56	56.10	45.05	74.00	-28.95	peak	
2	4443.453	6.71	33.50	42.51	48.40	46.10	74.00	-27.90	peak	
3	4824.000	7.12	34.00	42.78	46.94	45.28	74.00	-28.72	peak	
4	6974.982	8.53	35.89	41.70	47.51	50.23	74.00	-23.77	peak	
5	7236.000	8.77	36.09	41.56	46.52	49.82	74.00	-24.18	peak	
6	9648.000	10.79	37.69	38.51	41.91	51.88	74.00	-22.12	peak	



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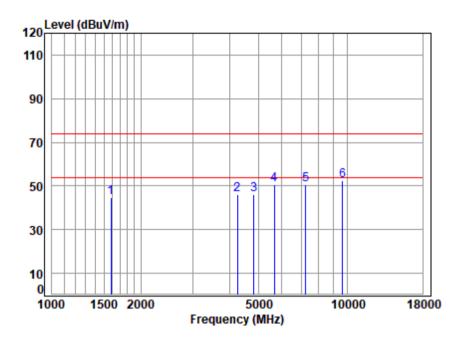
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Report No.: SZEM200800837802

Page: 67 of 111

Test Mode: 02: Polarity: Vertical: Modulation:802.11n: Bandwidth:20MHz: Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR

Mode : 2412 TX RSE Note : 2.4G WIFI 11N20

> Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 1583.392 3.33 26.18 40.56 55.66 44.61 74.00 -29.39 peak 4242.641 6.52 33.15 42.35 48.94 46.26 74.00 -27.74 peak 7.12 34.00 42.78 47.80 46.14 74.00 -27.86 peak 4824.000 50.84 74.00 -23.16 peak 5664.525 8.21 34.77 42.45 50.31 7236.000 8.77 36.09 41.56 47.50 50.80 74.00 -23.20 peak

> > 10.79 37.69 38.51 42.40 52.37 74.00 -21.63 peak



1 2

3

4

5

9648.000

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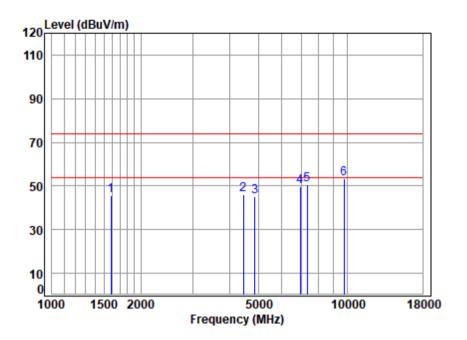
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Report No.: SZEM200800837802

Page: 68 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 08378CR/08379CR Mode : 2437 TX RSE

Note : 2.4G 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	
1583.392	3.33	26.18	40.56	56.83	45.78	74.00	-28.22	neak
								•
4874.000	7.17	34.05	42.82	46.93	45.33	74.00	-28.67	peak
6934.778	8.51	35.86	41.72	47.19	49.84	74.00	-24.16	peak
7311.000	8.84	36.15	41.53	47.33	50.79	74.00	-23.21	peak
9748.000	10.76	37.75	38.37	43.04	53.18	74.00	-20.82	peak
	MHz 1583.392 4456.315 4874.000 6934.778 7311.000	Freq Loss MHz dB 1583.392 3.33 4456.315 6.72 4874.000 7.17 6934.778 8.51 7311.000 8.84	Freq Loss Factor MHz dB dB/m 1583.392 3.33 26.18 4456.315 6.72 33.53 4874.000 7.17 34.05 6934.778 8.51 35.86 7311.000 8.84 36.15	Freq Loss Factor Factor MHz dB dB/m dB 1583.392 3.33 26.18 40.56 4456.315 6.72 33.53 42.52 4874.000 7.17 34.05 42.82 6934.778 8.51 35.86 41.72 7311.000 8.84 36.15 41.53	Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 1583.392 3.33 26.18 40.56 56.83 4456.315 6.72 33.53 42.52 48.52 4874.000 7.17 34.05 42.82 46.93 6934.778 8.51 35.86 41.72 47.19 7311.000 8.84 36.15 41.53 47.33	Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 1583.392 3.33 26.18 40.56 56.83 45.78 4456.315 6.72 33.53 42.52 48.52 46.25 4874.000 7.17 34.05 42.82 46.93 45.33 6934.778 8.51 35.86 41.72 47.19 49.84 7311.000 8.84 36.15 41.53 47.33 50.79	Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1583.392 3.33 26.18 40.56 56.83 45.78 74.00 4456.315 6.72 33.53 42.52 48.52 46.25 74.00 4874.000 7.17 34.05 42.82 46.93 45.33 74.00 6934.778 8.51 35.86 41.72 47.19 49.84 74.00 7311.000 8.84 36.15 41.53 47.33 50.79 74.00	Cable Loss Factor Factor Read Level Level Line Limit Limit Over Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dB 1583.392 3.33 26.18 40.56 56.83 45.78 74.00 -28.22 4456.315 6.72 33.53 42.52 48.52 46.25 74.00 -27.75 4874.000 7.17 34.05 42.82 46.93 45.33 74.00 -28.67 6934.778 8.51 35.86 41.72 47.19 49.84 74.00 -24.16 7311.000 8.84 36.15 41.53 47.33 50.79 74.00 -23.21 9748.000 10.76 37.75 38.37 43.04 53.18 74.00 -20.82



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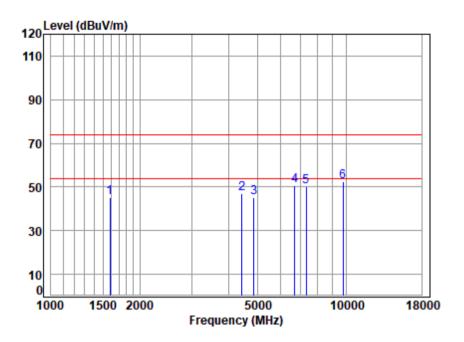
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Report No.: SZEM200800837802

Page: 69 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR Mode : 2437 TX RSE

: 2.4G WTFT 11N20 Note

	. 2	TO WILL	1 11112							
		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	1583.392	3.33	26.18	40.56	56.40	45.35	74.00	-28.65	peak	
2	4443.453	6.71	33.50	42.51	49.23	46.93	74.00	-27.07	peak	
3	4874.000	7.17	34.05	42.82	46.95	45.35	74.00	-28.65	peak	
ļ	6698.373	8.39	35.72	41.84	48.38	50.65	74.00	-23.35	peak	
5	7311.000	8.84	36.15	41.53	46.59	50.05	74.00	-23.95	peak	
	9748 000	10 76	37 75	38 37	42 54	52 68	74 00	-21 32	neak	



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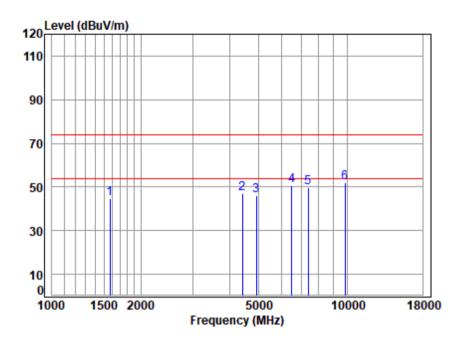
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Report No.: SZEM200800837802

Page: 70 of 111

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL
Job No : 08378CR/08379CR
Mode : 2462 TX RSE

Note : 2.4G WIFI 11N20

				-					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	aB/m	dB	aBuv	dBuV/m	dBuV/m	dB	
1	1574.265	3.33	26.14	40.55	55.99	44.91	74.00	-29.09	peak
2	4417.841	6.68	33.46	42.49	49.29	46.94	74.00	-27.06	peak
3	4924.000	7.22	34.11	42.85	47.58	46.06	74.00	-27.94	peak
4	6488.754	8.28	35.59	41.96	48.78	50.69	74.00	-23.31	peak
5	7386.000	8.91	36.21	41.49	45.93	49.56	74.00	-24.44	peak
6	9848.000	10.73	37.81	38.22	41.86	52.18	74.00	-21.82	peak



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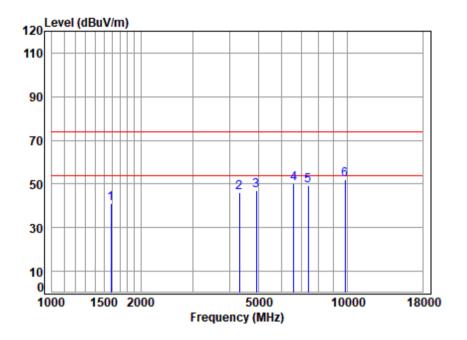
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Report No.: SZEM200800837802

Page: 71 of 111

Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 08378CR/08379CR

Mode : 2462 TX RSE

Note : 2.4G WIFI 11N20

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	3.33	26.18	40.56	52.32	41.27	74.00	-32.73	peak
2	4316.859	6.59	33.28	42.41	48.84	46.30	74.00	-27.70	peak
3	4924.000	7.22	34.11	42.85	48.50	46.98	74.00	-27.02	peak
4	6602.265	8.33	35.66	41.89	48.02	50.12	74.00	-23.88	peak
5	7386.000	8.91	36.21	41.49	45.68	49.31	74.00	-24.69	peak
6	9848.000	10.73	37.81	38.22	41.64	51.96	74.00	-22.04	peak



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Report No.: SZEM200800837802

Page: 72 of 111

8 Emission Test Results

8.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Francisco of amicaia (MILL)	Conducted	limit(dBµV)				
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.						
Detector: Peak for pre-scan (9kHz	Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz					

8.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1000 mbar

8.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_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 @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.



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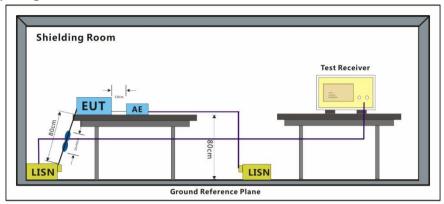
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Report No.: SZEM200800837802

Page: 73 of 111

8.1.3 Test Setup Diagram



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



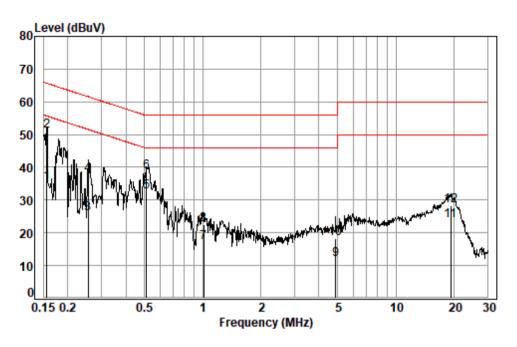
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Report No.: SZEM200800837802

Page: 74 of 111

Test Mode: 02: Line: Live line



Site : Shielding Room

Condition: Line Job No. : 08378CR

Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1565	0.01	9.68	25.64	35.33	55.65	-20.32	Average
2	0.1565	0.01	9.68	41.56	51.25	65.65	-14.40	QP
3	0.2548	0.03	9.68	16.05	25.76	51.60	-25.84	Average
4	0.2548	0.03	9.68	28.14	37.85	61.60	-23.75	QP
5	0.5128	0.06	9.69	22.71	32.46	46.00	-13.54	Average
6	0.5128	0.06	9.69	28.80	38.55	56.00	-17.45	QP
7	1.0103	0.09	9.70	7.33	17.12	46.00	-28.88	Average
8	1.0103	0.09	9.70	12.71	22.50	56.00	-33.50	QP
9	4.8997	0.17	9.82	1.85	11.84	46.00	-34.16	Average
10	4.8997	0.17	9.82	8.33	18.32	56.00	-37.68	QP
11	19.2236	0.24	10.89	12.54	23.67	50.00	-26.33	Average
12	19.2236	0.24	10.89	17.19	28.32	60.00	-31.68	QP



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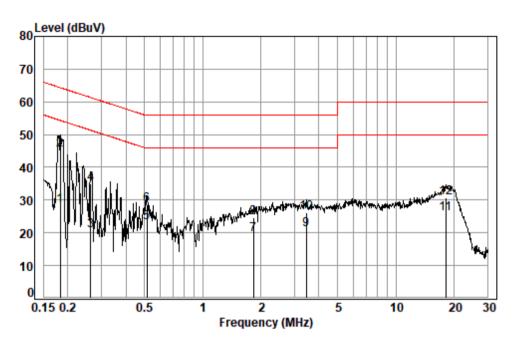
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Report No.: SZEM200800837802

Page: 75 of 111

Test Mode: 02: Line: Neutral Line



: Shielding Room

Condition: Neutral Job No. : 08378CR

Test mode: 02

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1835	0.02	9.66	18.46	28.14	5/ 33	-26 19	Average
								_
2	0.1835	0.02	9.66	35.66	45.34	64.33	-18.99	QP
3	0.2630	0.03	9.66	10.87	20.56	51.34	-30.78	Average
4	0.2630	0.03	9.66	25.44	35.13	61.34	-26.21	QP
5	0.5155	0.06	9.67	13.31	23.04	46.00	-22.96	Average
6	0.5155	0.06	9.67	18.91	28.64	56.00	-27.36	QP
7	1.8288	0.15	9.72	9.69	19.56	46.00	-26.44	Average
8	1.8288	0.15	9.72	14.90	24.77	56.00	-31.23	QP
9	3.4356	0.16	9.78	10.91	20.85	46.00	-25.15	Average
10	3.4356	0.16	9.78	16.07	26.01	56.00	-29.99	QP
11	18.1352	0.23	10.79	14.93	25.95	50.00	-24.05	Average
12	18.1352	0.23	10.79	19.66	30.68	60.00	-29.32	QP



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Page: 76 of 111

9 Test Setup Photo

Please refer to setup photos.

10 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.



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Report No.: SZEM200800837802

Page: 77 of 111

11 Appendix

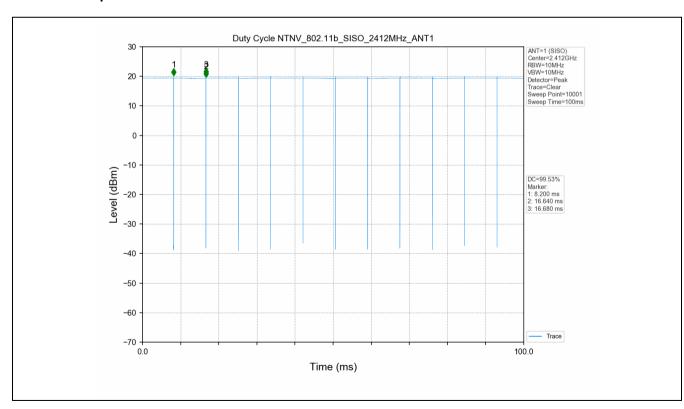
Appendix for 15.247

1. Duty Cycle

1.1 Test Result

Test Mode	Channel Frequency(MHz)	ТХ Туре	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
	2412	SISO	1	8.440	8.480	99.53	0.02
802.11b	2437	SISO	1	8.450	8.480	99.65	0.02
	2462	SISO	1	8.440	8.480	99.53	0.02
802.11g	2412	SISO	1	1.395	1.436	97.14	0.13
	2437	SISO	1	1.395	1.435	97.21	0.12
	2462	SISO	1	1.394	1.435	97.14	0.13
802.11n(HT20)	2412	SISO	1	1.308	1.350	96.89	0.14
	2437	SISO	1	1.307	1.348	96.96	0.13
	2462	SISO	1	1.307	1.349	96.89	0.14

1.2 Test Graph





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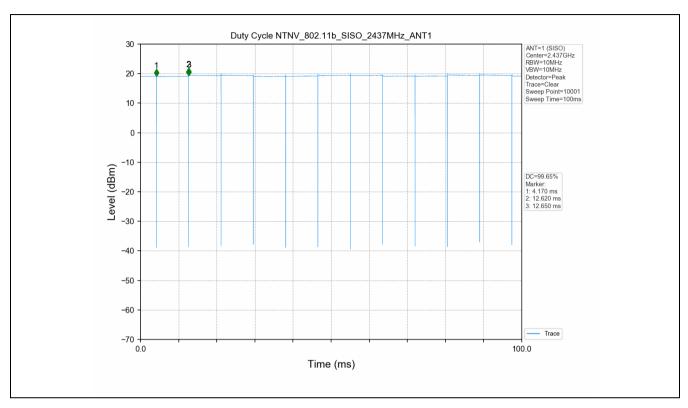
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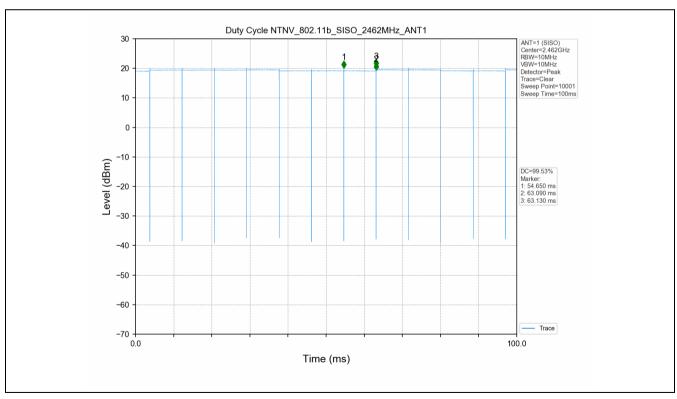
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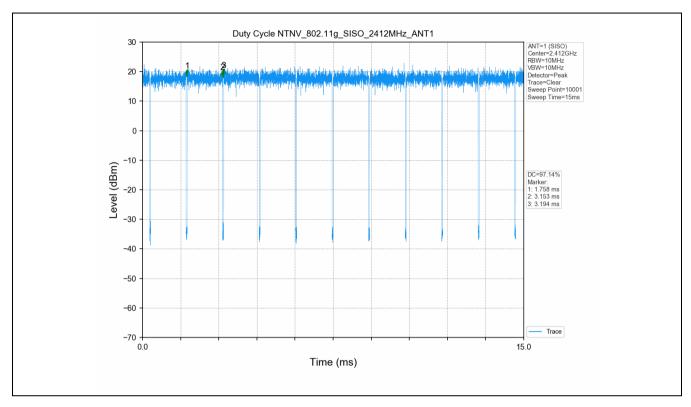
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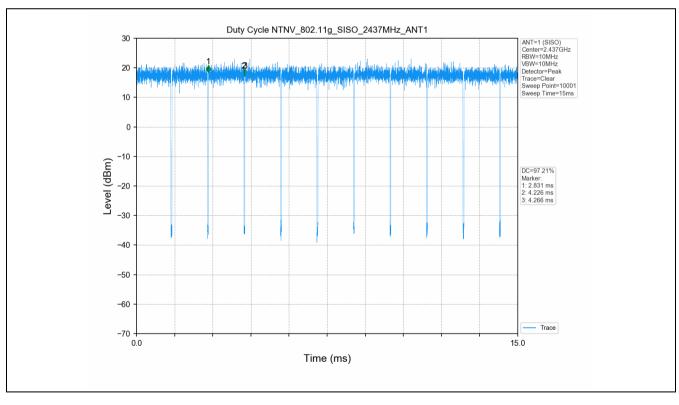
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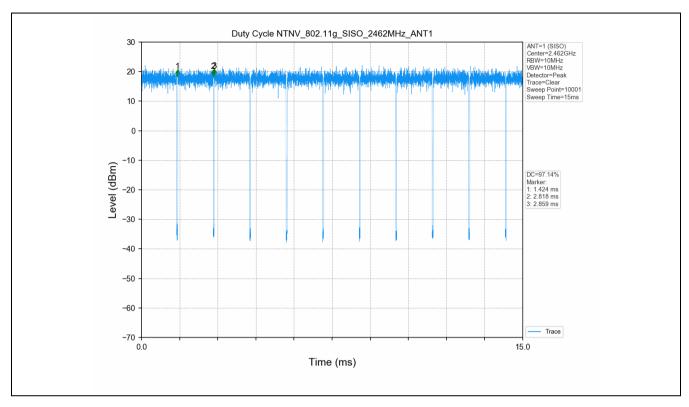
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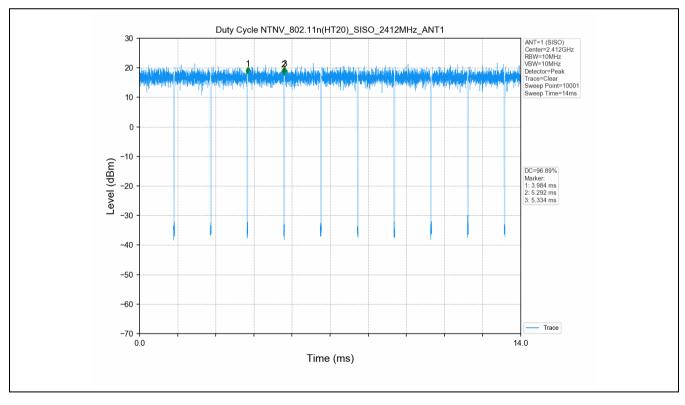
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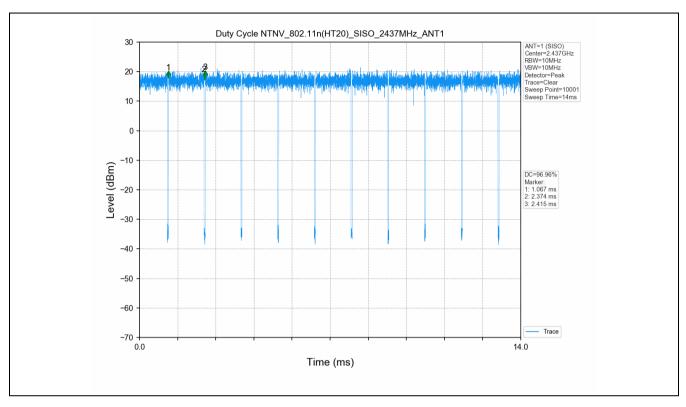
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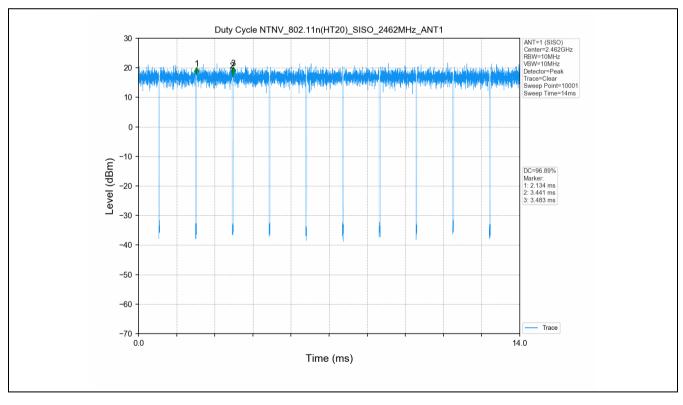
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Page: 81 of 111







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Report No.: SZEM200800837802

Page: 82 of 111

2. Bandwidth

2.1 Test Result

Test Mode	Frequency	TV Type	ANT No	6dB Bandwidth	Verdict
rest Mode	(MHz)	TX Type	ANT No.	Test Result (MHz)	verdict
	2412	SISO	1	9.051	PASS
802.11b	2437	2437 SISO		9.007	PASS
	2462	SISO	1	8.040	PASS
	2412	SISO	1	15.095	PASS
802.11g	2437	SISO	1	15.066	PASS
	2462	SISO	1	15.044	PASS
802.11n(HT20)	2412	SISO	1	15.146	PASS
	2437	SISO	1	15.151	PASS
	2462	SISO	1	15.163	PASS

Test Mode	Frequency	TV Tuno	ANT No.	99% Occupied Bandwidth			
rest Mode	(MHz)	TX Type	ANT NO.	Test Res	ult (MHz)		
	2412	SISO	1	13.961	Only for Report Use		
802.11b	2437	SISO	1	13.961	Only for Report Use		
	2462	SISO	1	13.945	Only for Report Use		
	2412	SISO	1	16.603	Only for Report Use		
802.11g	2437	SISO	1	16.633	Only for Report Use		
	2462	SISO	1	16.597	Only for Report Use		
802.11n(HT20)	2412	SISO	1	17.670	Only for Report Use		
	2437	SISO	1	17.684	Only for Report Use		
	2462	SISO	1	17.688	Only for Report Use		



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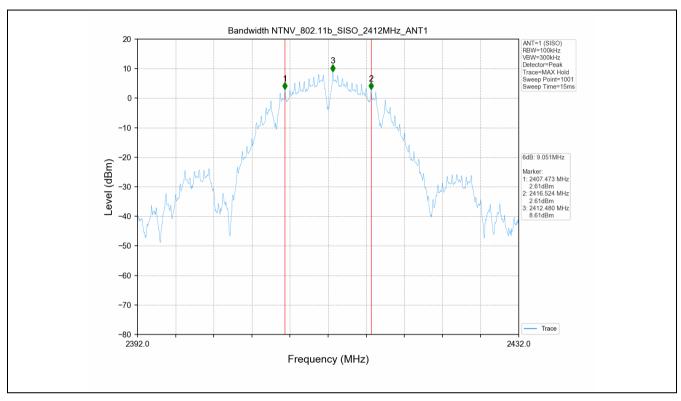
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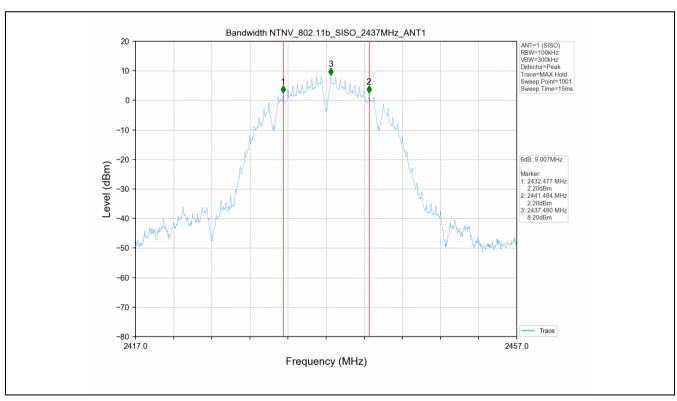


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Page: 83 of 111

2.2 Test Graph - 6dB Bandwidth







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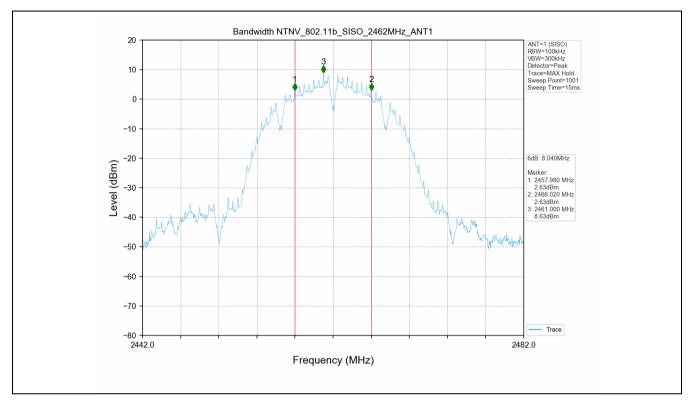
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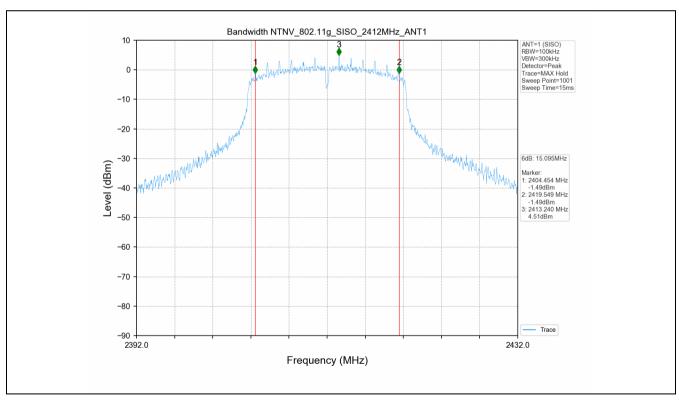
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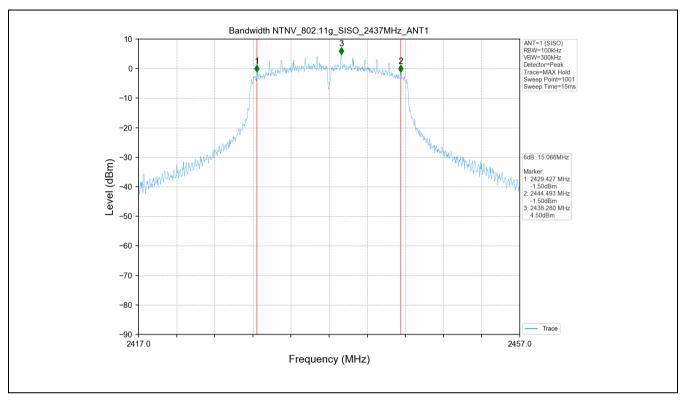
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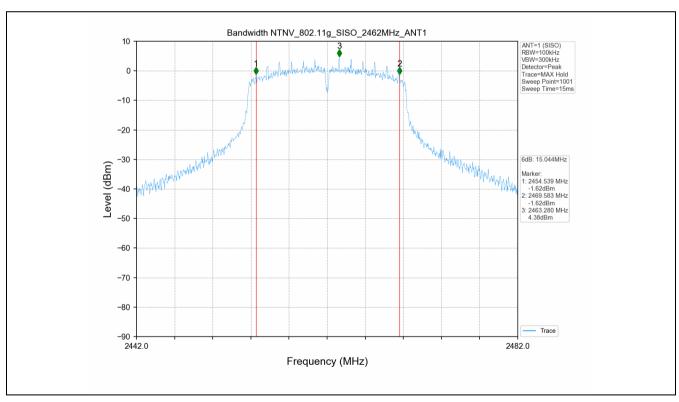
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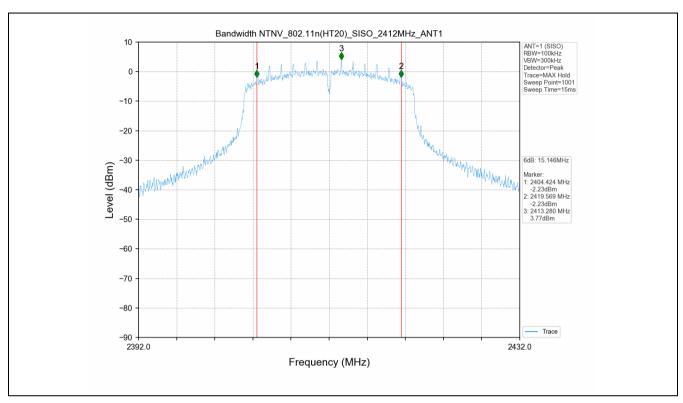
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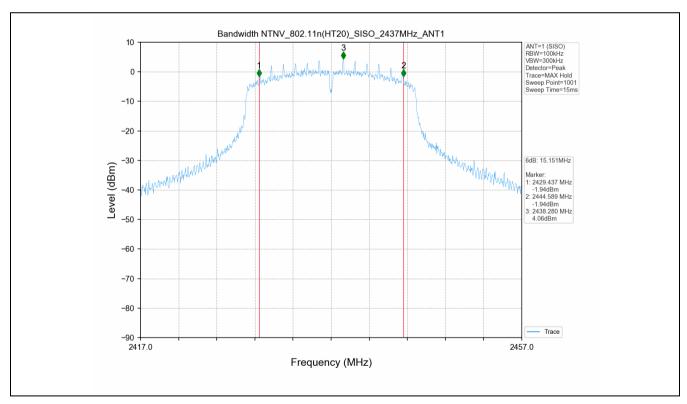
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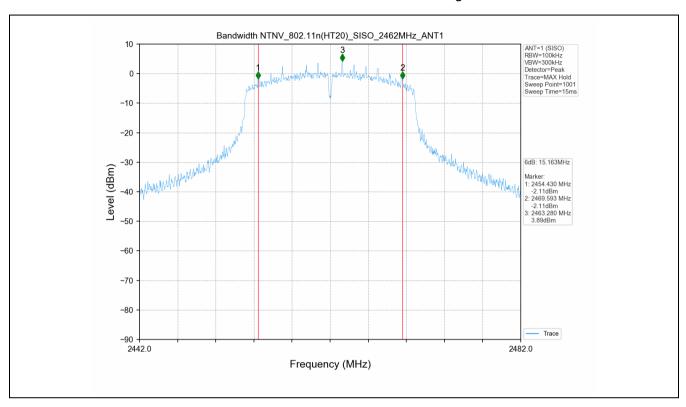
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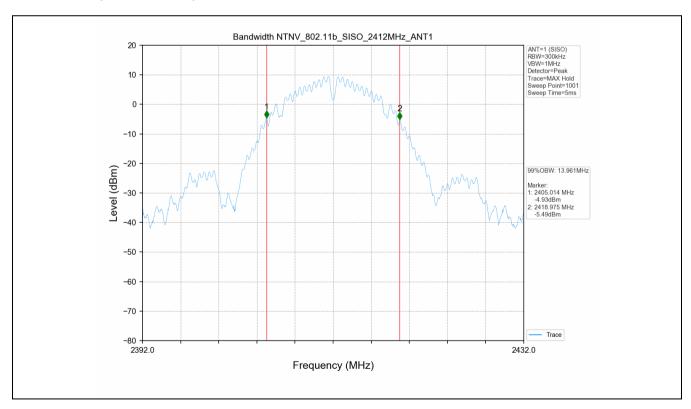


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Page: 87 of 111



2.3 Test Graph - 99% Occupied Bandwidth





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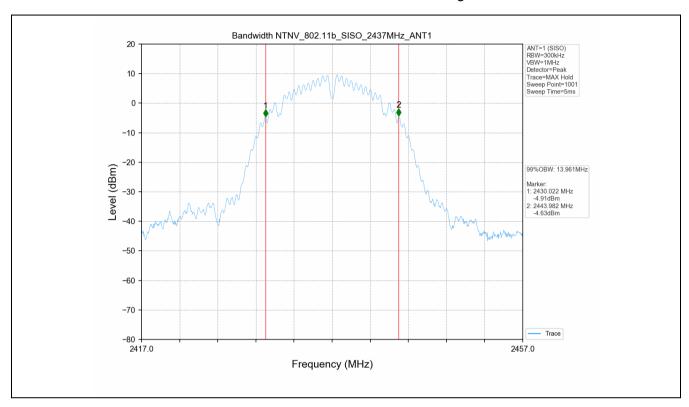
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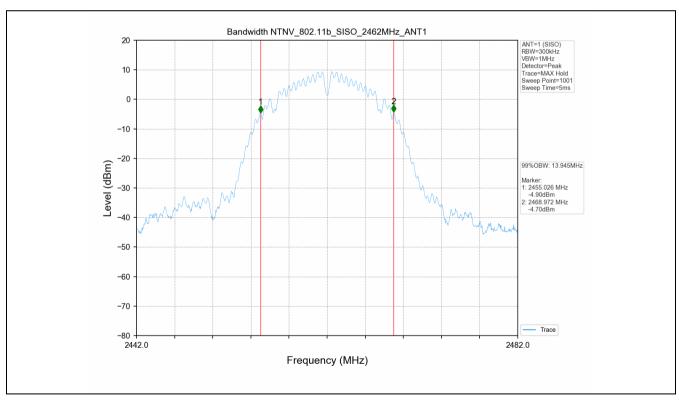
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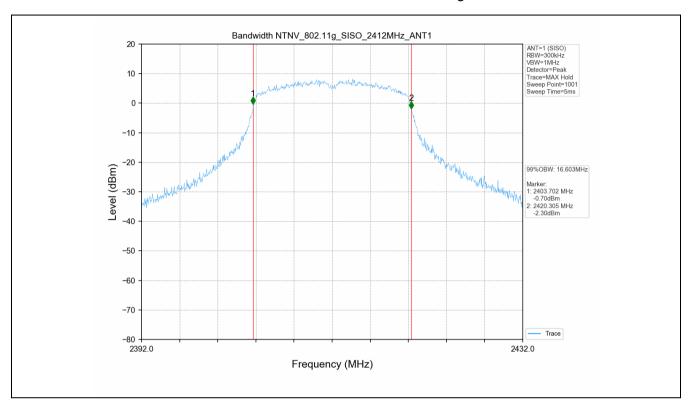
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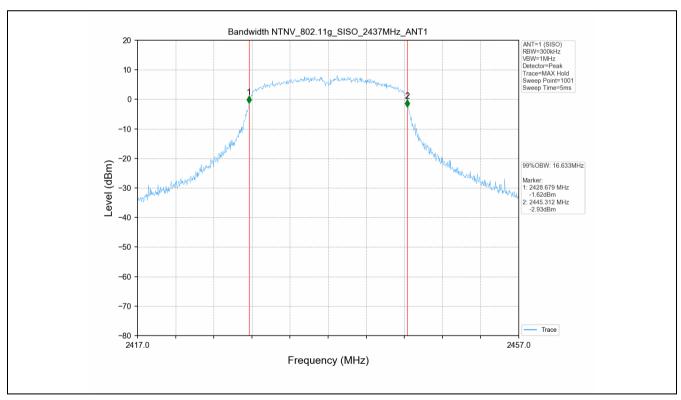
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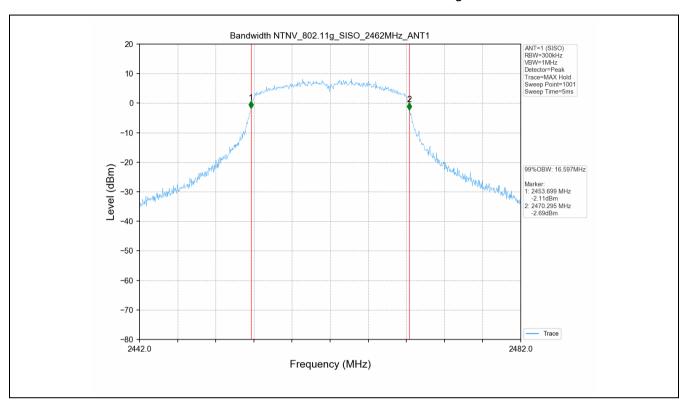
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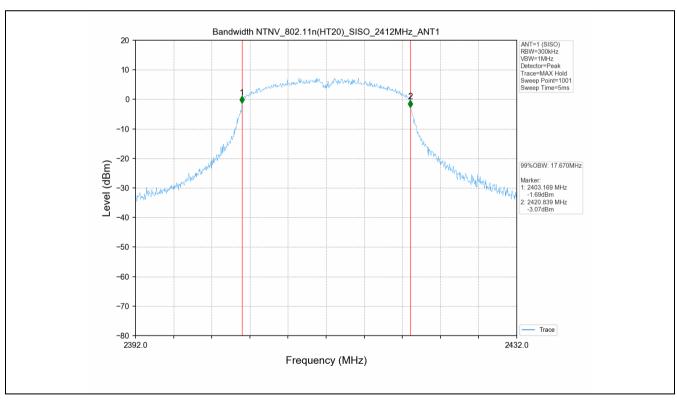
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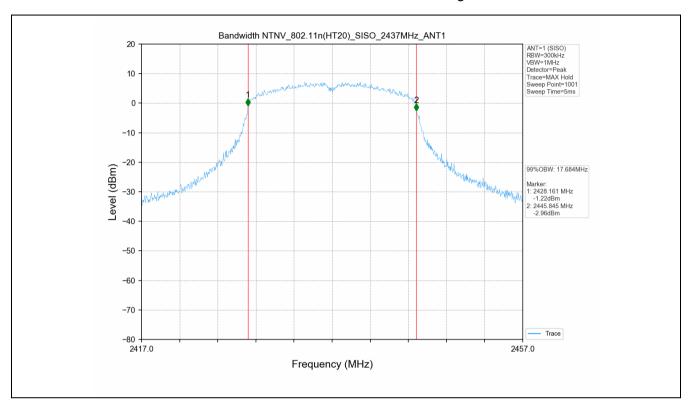
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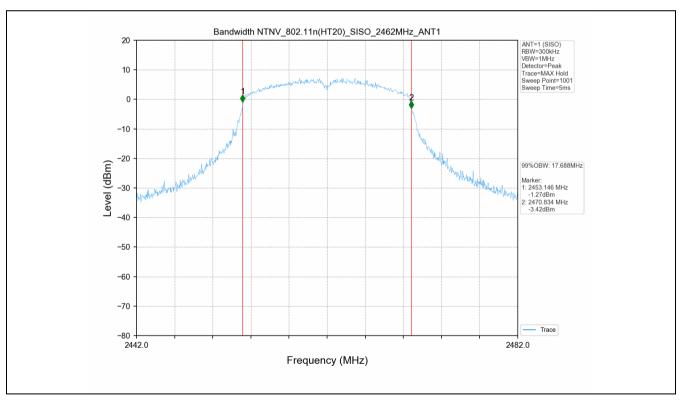
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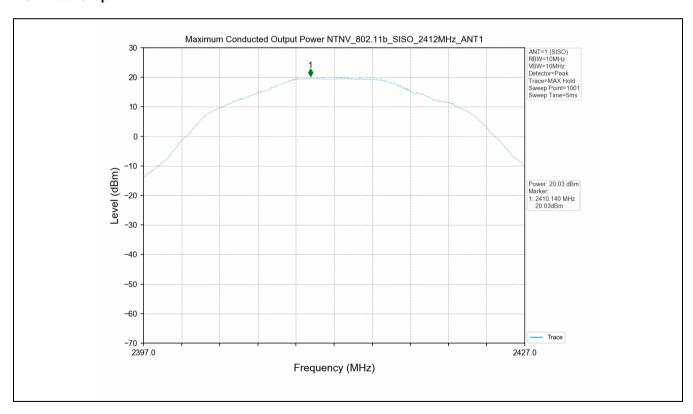
Page: 92 of 111

3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict	
	(IVITZ)		Ant 1			
	2412	SISO	20.03	30	PASS	
802.11b	2437	SISO	20.05	30	PASS	
	2462	SISO	20.03	30	PASS	
	2412	SISO	23.12	30	PASS	
802.11g	2437	SISO	23.22	30	PASS	
	2462	SISO	23.07	30	PASS	
802.11n(HT20)	2412	SISO	22.30	30	PASS	
	2437	SISO	22.34	30	PASS	
	2462	SISO	22.28	30	PASS	

3.2 Test Graph





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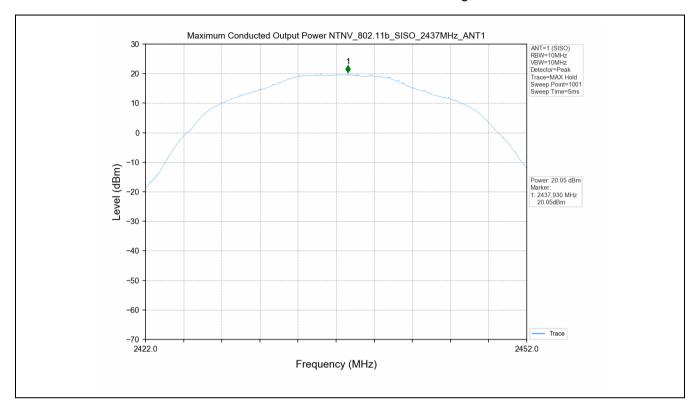
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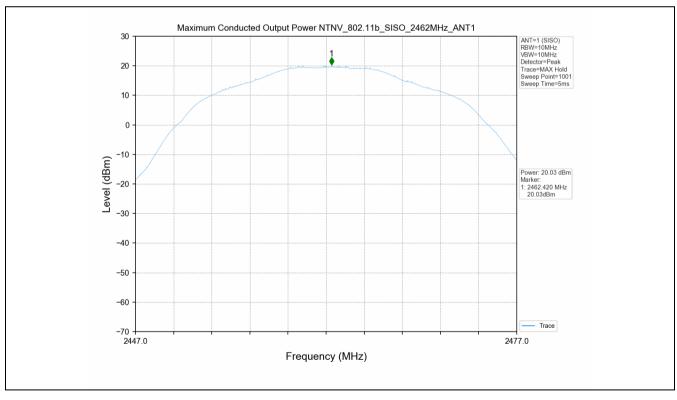
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Report No.: SZEM200800837802

Page: 93 of 111







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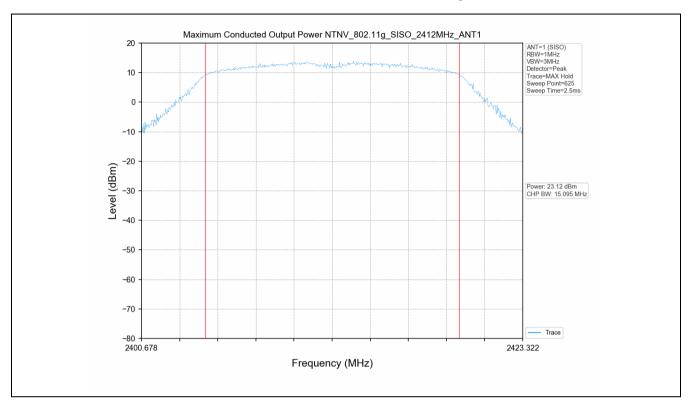
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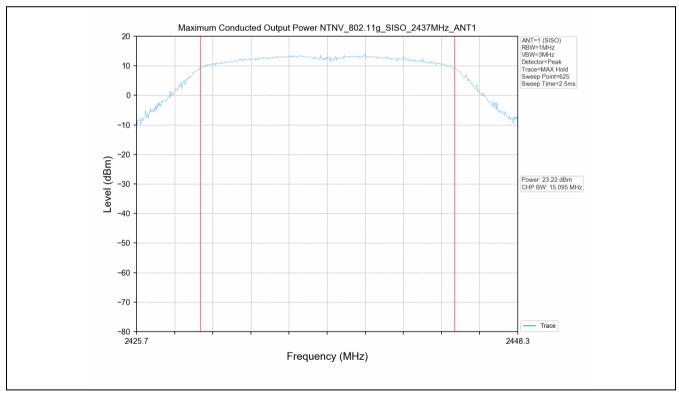
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Report No.: SZEM200800837802

Page: 94 of 111







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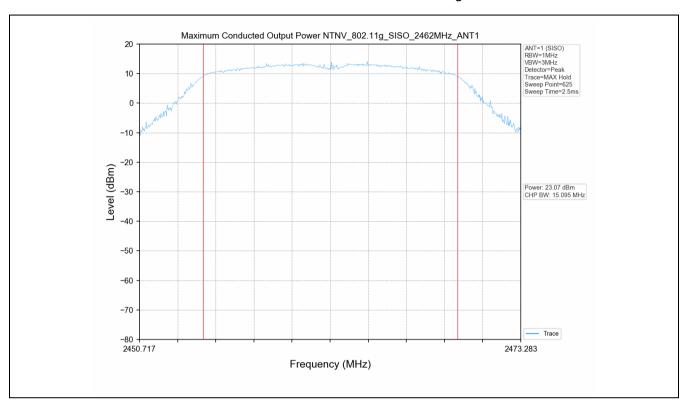
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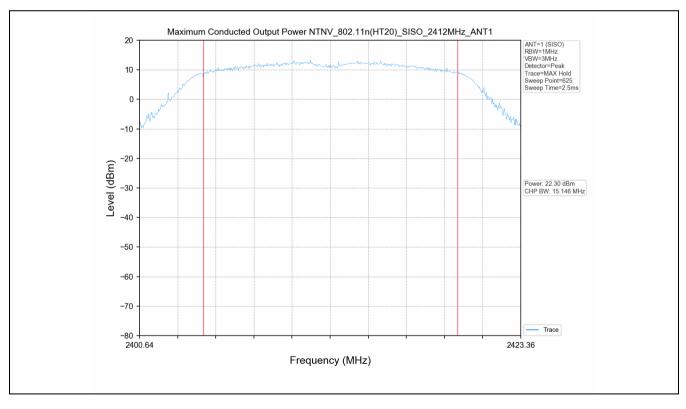
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Page: 95 of 111







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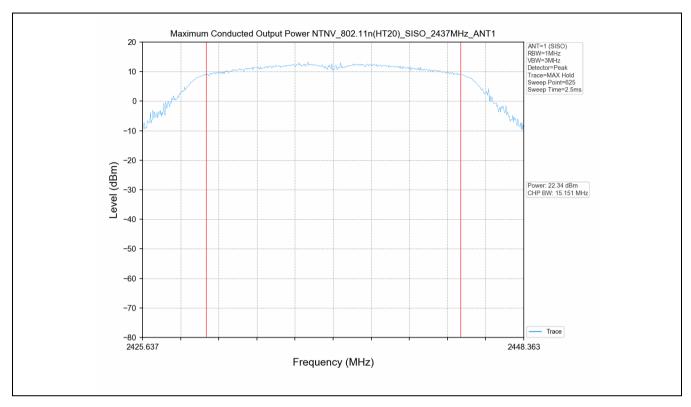
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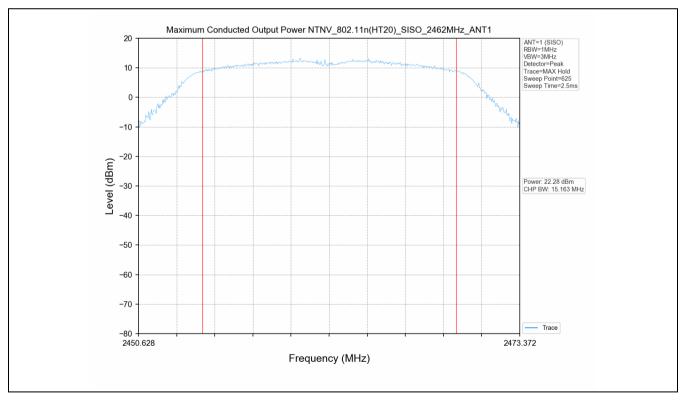
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Report No.: SZEM200800837802

Page: 96 of 111







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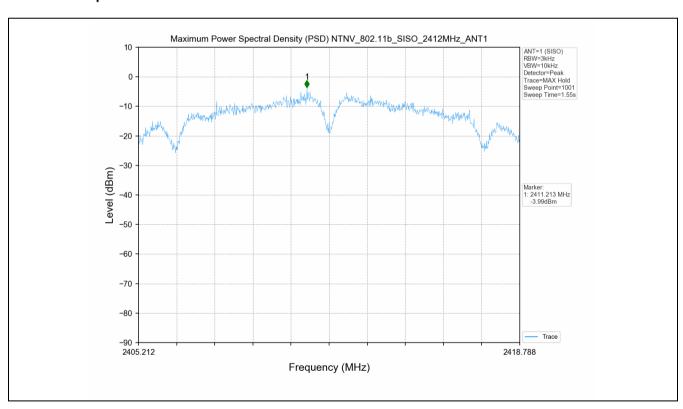
Page: 97 of 111

4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict	
			Ant 1			
	2412	SISO	-3.99	≤8	PASS	
802.11b	2437	SISO	-5.36	≤8	PASS	
	2462	SISO	-5.21	≤8	PASS	
	2412	SISO	-9.29	≤8	PASS	
802.11g	2437	SISO	-8.74	≤8	PASS	
	2462	SISO	-8.72	≤8	PASS	
802.11n(HT20)	2412	SISO	-10.50	≤8	PASS	
	2437	SISO	-10.47	≤8	PASS	
	2462	SISO	-10.10	≤8	PASS	

4.2 Test Graph





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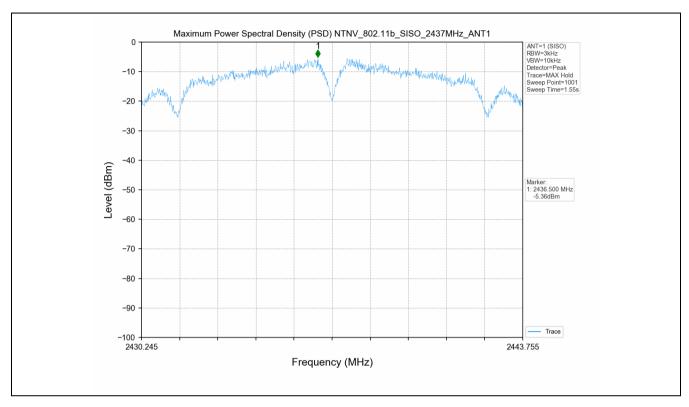
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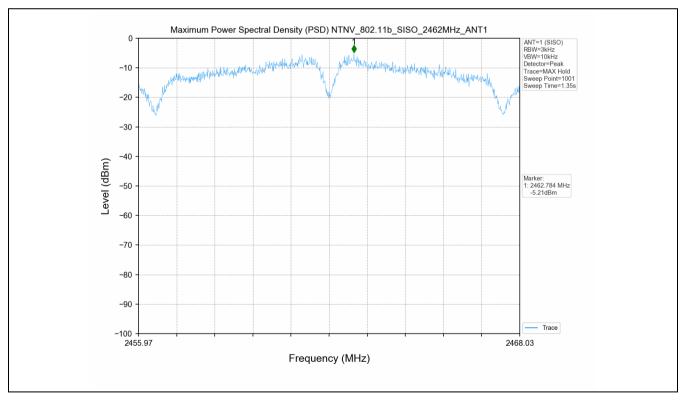
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98 of 111 Page:







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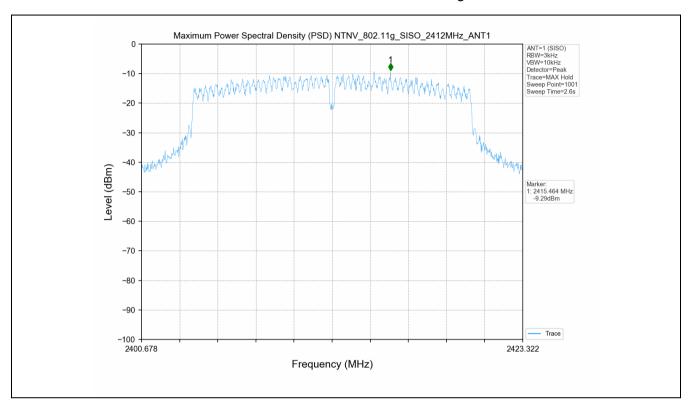
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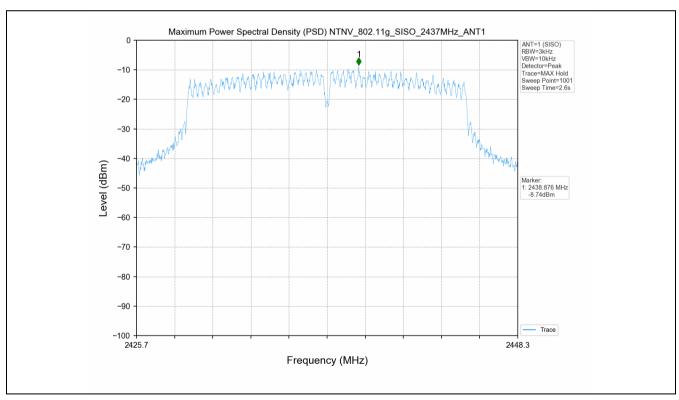
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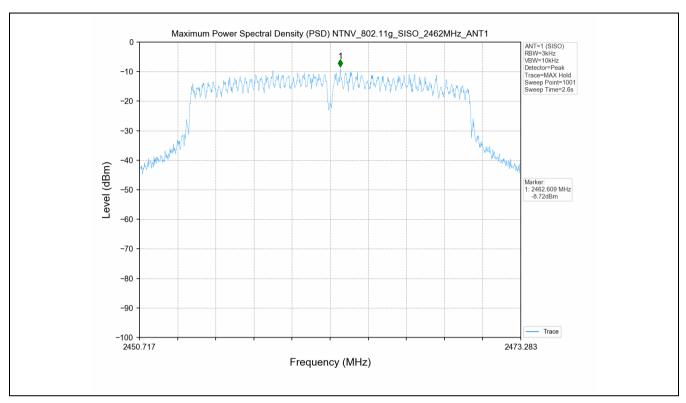
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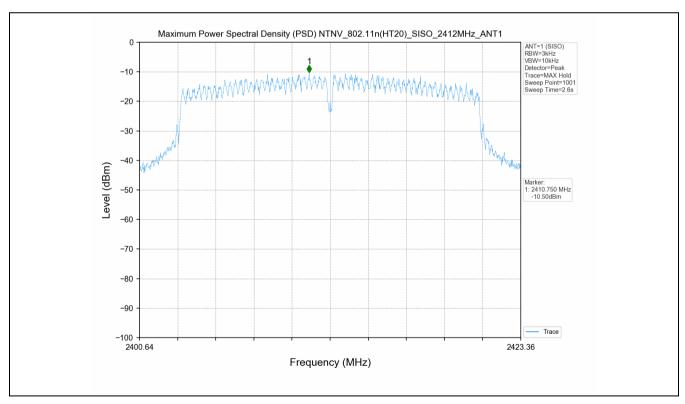
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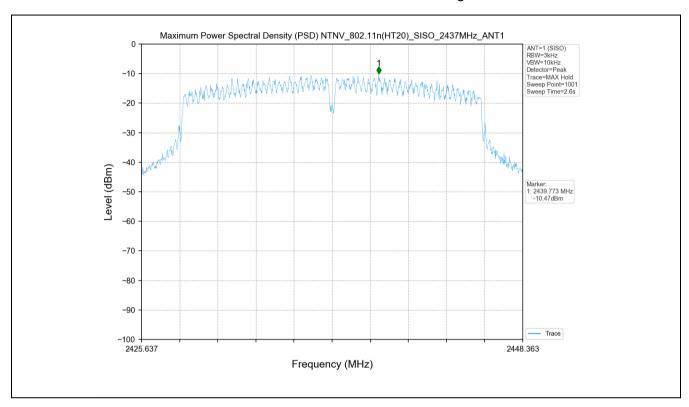
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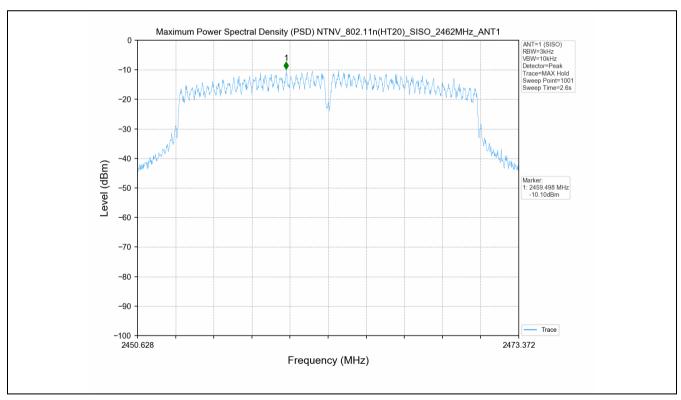
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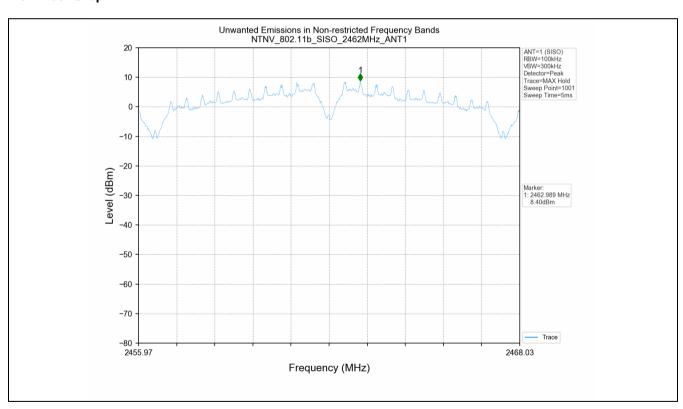
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5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	T No. Spurious Conducted Emission (dBm)		Verdict
	2412	SISO	1	Refer to test graph	-11.60	PASS
802.11b	2437	SISO	1	Refer to test graph	-11.60	PASS
	2462	SISO	1	Refer to test graph	-11.60	PASS
	2412	SISO	1	Refer to test graph	-15.44	PASS
802.11g	2437	SISO	1	Refer to test graph	-15.44	PASS
	2462	SISO	1	Refer to test graph	-15.44	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-15.93	PASS
	2437	SISO	1	Refer to test graph	-15.93	PASS
	2462	SISO	1	Refer to test graph	-15.93	PASS

5.2 Test Graph





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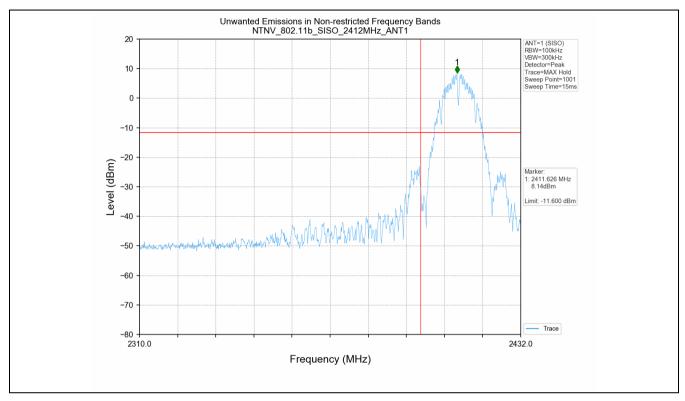
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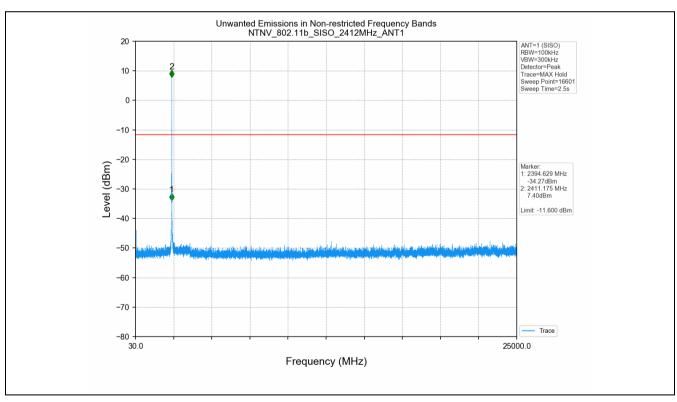
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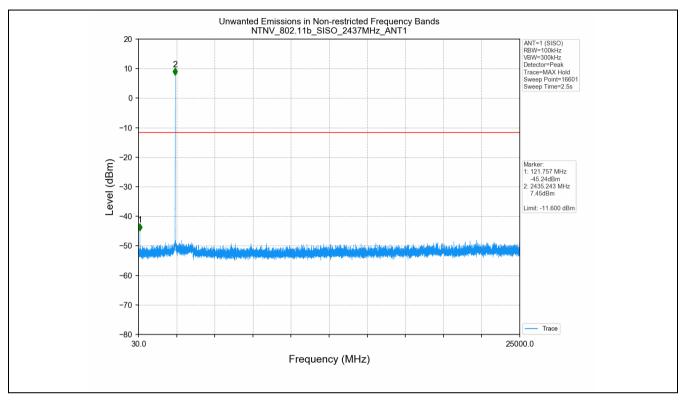
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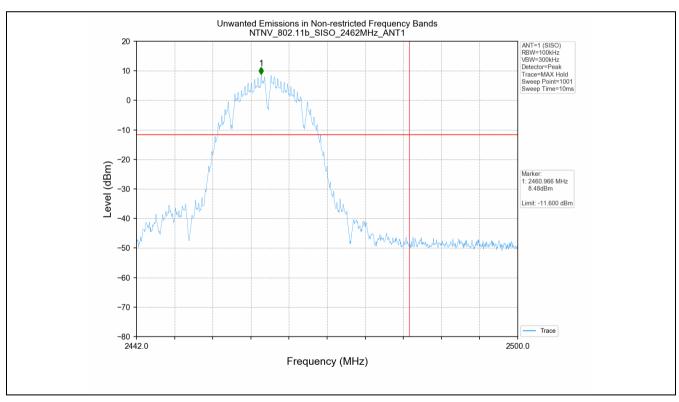
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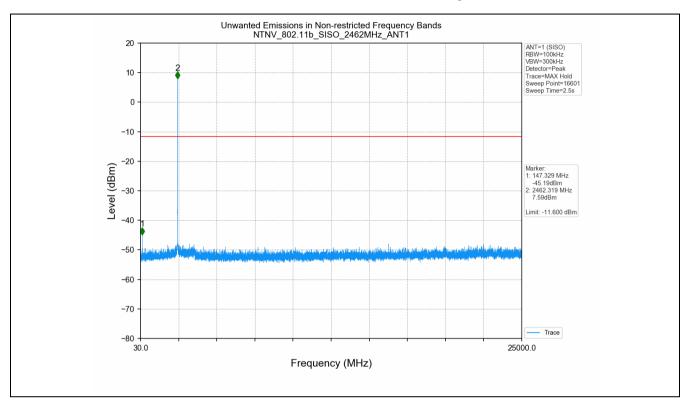
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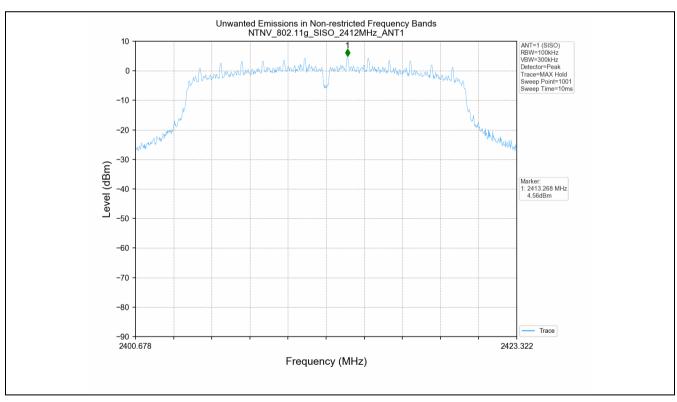
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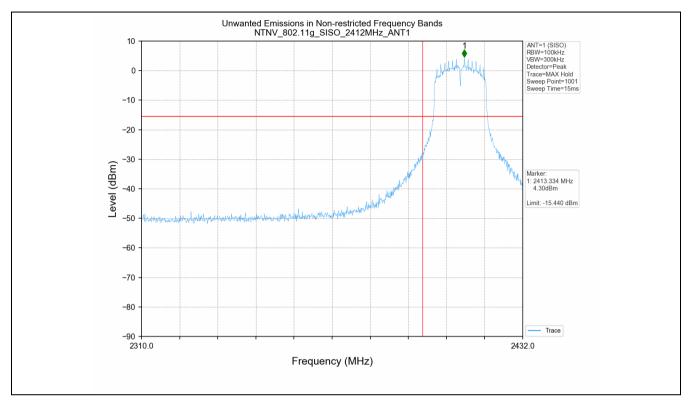
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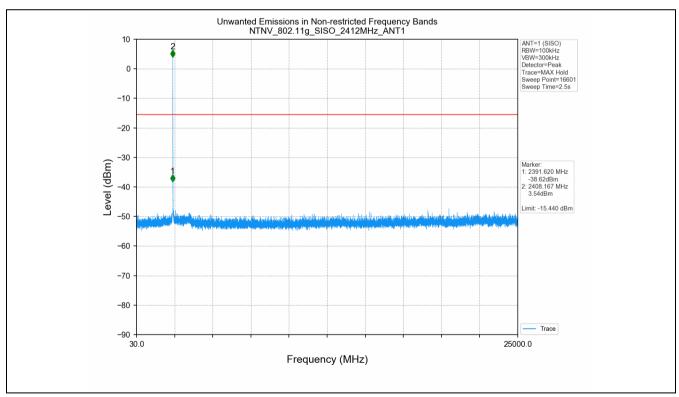
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Report No.: SZEM200800837802

Page: 106 of 111







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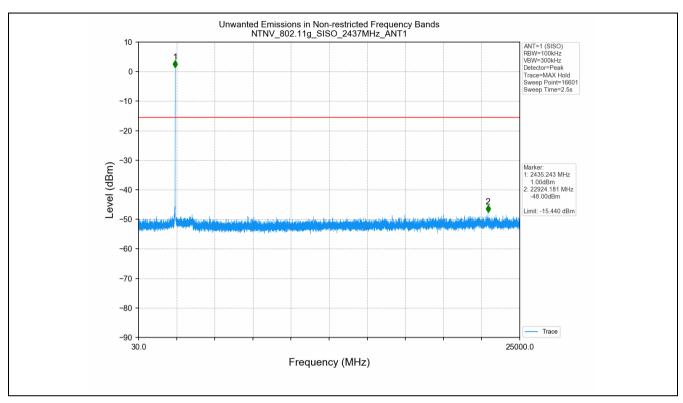
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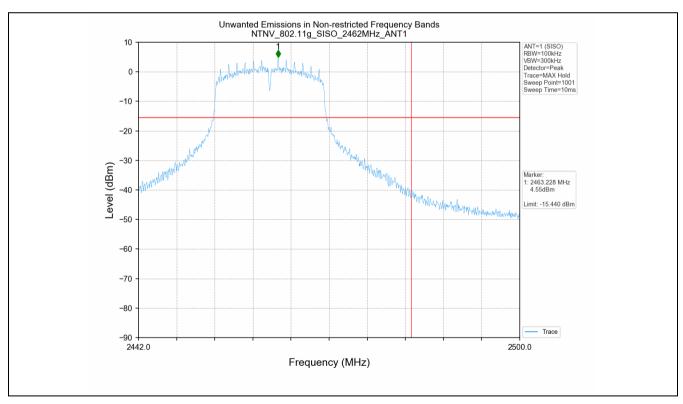
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Report No.: SZEM200800837802

Page: 107 of 111







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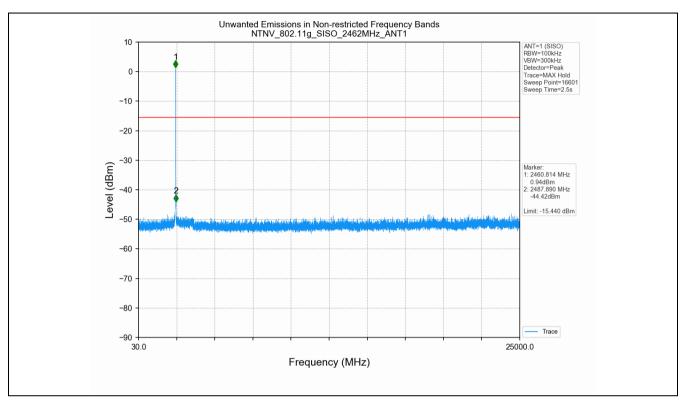
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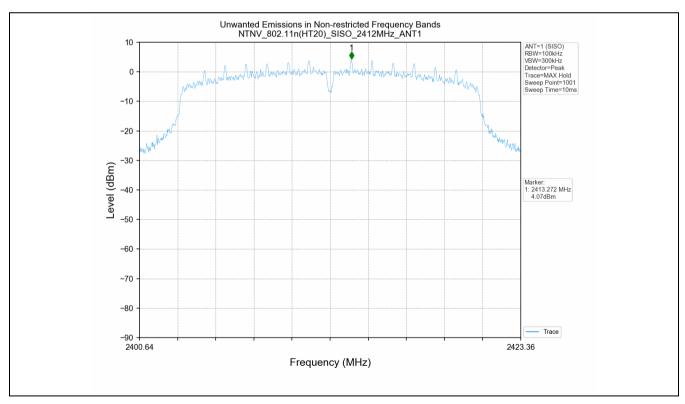
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Report No.: SZEM200800837802

Page: 108 of 111







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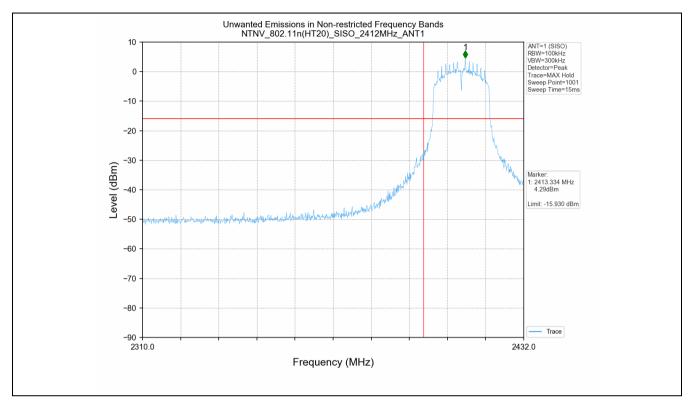
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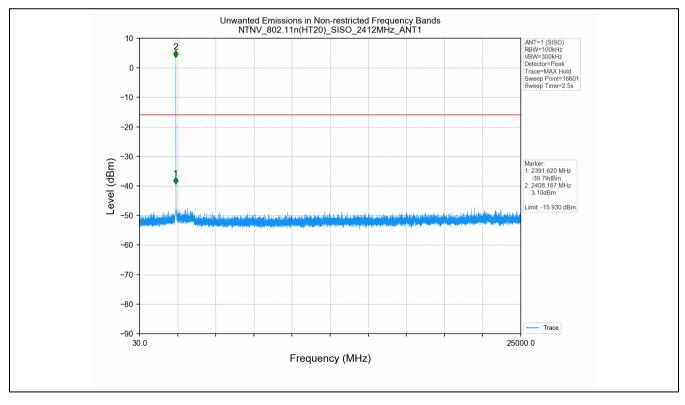
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Page: 109 of 111







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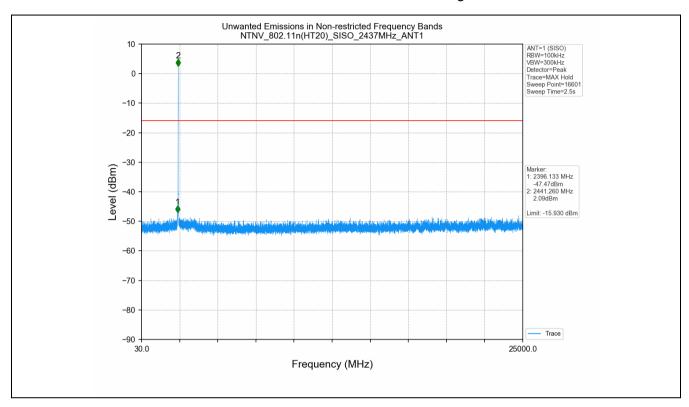
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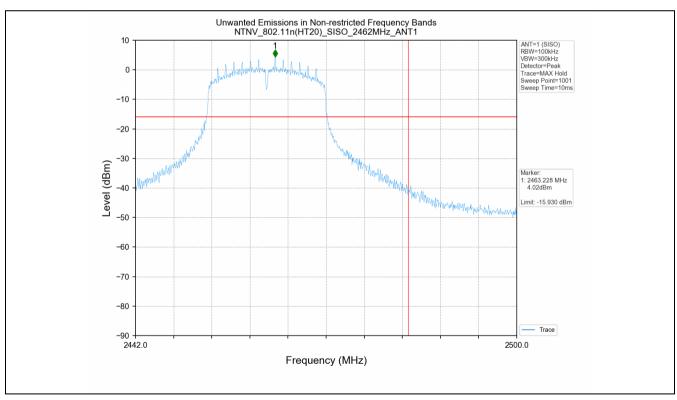
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Report No.: SZEM200800837802

Page: 110 of 111







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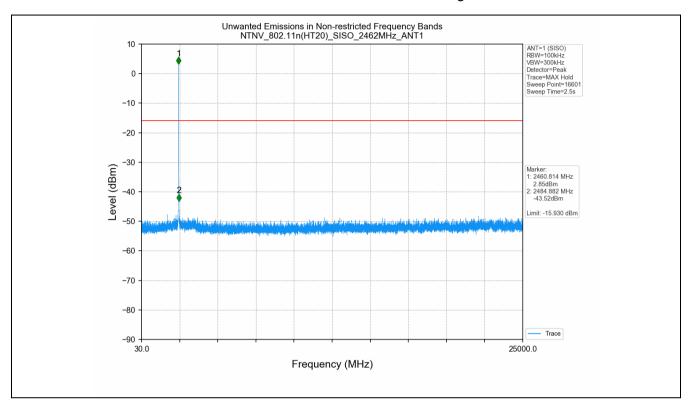
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Page: 111 of 111



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