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Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM181101008902

Fax: +86 (0) 755 2671 0594 Page: 1 of 89

TEST REPORT

Application No.: SZEM1811010089CR

Applicant: Schneider Electric Solar Inverters USA, Inc.

Address of Applicant: 250 S. Vasco Road, Livermore, California, 94551, United States

Manufacturer: Schneider Electric Solar Inc

Address of Manufacturer: 3700 Gilmore Way, Burnaby, BC Canada V5M4G1

Factory: Seeed Technology Co., Ltd

Address of Factory: 1F, Tower B, Building 2, Shanshui Building, Nanshan Yungu Innovation

Industry Park, Liuxian Ave, Nanshan District, Shenzhen, Guangdong,

P.R.C.

Equipment Under Test (EUT):

EUT Name: Conext Gateway

Model No.: 865-0329

Trade mark: Schneider

O Electric

FCC ID: 2AODL-CONEXTGTWY

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

Date of Receipt: 2018-11-23

Date of Test: 2018-12-05 to 2018-12-11

Date of Issue: 2018-12-13

Test Result: Pass*



EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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



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	Revision Record						
Version	Chapter	Modifier	Remark				
01		2018-12-13		Original			

Authorized for issue by:		
	Vincent Chen	
	Vincent Chen /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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2 Test Summary

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

Radio Spectrum Matt	er 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
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 15.209 & 15.247(d)	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass

Remark:

Model No: Conext Gateway v1.0

This test report (Ref. No.: SZEM181101008802) is only valid with the original test report (Ref.

No.:FR741320C).

Compared with the original report, this report changed the information of applicant, manufacturer, factory, product name, trade mark, model No. and the antenna.

According to the declaration from the applicant, the WIFI module used in this report and the one in original report were identical(WIFI module, model No.: WL18MODGB).

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Antenna Requirement, Conducted Peak Output Power, Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model Conext Gateway v1.0 and shown the data in this report, other tests please refer to original report FR741320C.



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4 General Information

4.1 Details of E.U.T.

DC 12V which can be powered by Adapter
Adapter Model: SMI18-12
Input: AC100-240V, 50/60Hz 0.48A
Output: DC 12V, 1.6A
802.11b: DSSS (CCK, DQPSK, DBPSK)
802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
802.11b/g/n(HT20):11
802.11n(HT40):7
802.11b/g/n(HT20): 2412MHz to 2462MHz
802.11n(HT40): 2422MHz to 2452MHz
5MHz
W5029
Pulse Larson Antennas
Dipole Antenna
3.3dBi

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty		
1	Radio Frequency	± 7.25 x 10 ⁻⁸		
2	Duty cycle	± 0.37%		
3	Occupied Bandwidth	± 3%		
4	RF conducted power	± 0.75dB		
5	RF power density	± 2.84dB		
6	Conducted Spurious emissions	± 0.75dB		
7	DE Dadiated newer	± 4.5dB (below 1GHz)		
/	RF Radiated power	± 4.8dB (above 1GHz)		
8	Dadiated Courieus emission toet	± 4.5dB (Below 1GHz)		
0	Radiated Spurious emission test	± 4.8dB (Above 1GHz)		
9	Temperature test	± 1 ℃		
10	Humidity test	± 3%		
11	Supply voltages	± 1.5%		
12	Time	± 3%		



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4.4 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, 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:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration

Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

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

VCCI

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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5 Equipment List

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2018-09-27	2019-09-26	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM031-02	2018-07-12	2019-07-11	
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A	
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018-09-27	2019-09-26	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018-09-25	2019-09-24	

Radiated Emissions whi	Radiated Emissions which fall in the restricted bands					
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	2018-07-12	2019-07-11	
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01	
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26	
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16	
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018-09-25	2019-09-24	
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-09-27	2019-09-26	
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01	
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01	
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21	
Band filter	N/A	N/A	SEM023-01	N/A	N/A	



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Radiated Emissions (30	Radiated Emissions (30MHz-1GHz)						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025-01	2018-07-12	2019-07-11		
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017-09-27	2019-09-26		
Elvii Test Receiver				2018-09-25	2019-09-24		
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26		
Pre-amplifier (0.1- 1300MHz)	Agilent Technologies	8447D	SEM005-01	2018-04-02	2019-04-01		

Radiated Spurious Emis	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	2018-07-12	2019-07-11	
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01	
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26	
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16	
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018-09-25	2019-09-24	
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-09-27	2019-09-26	
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01	
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01	
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2018-09-25	2019-09-24	
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21	
Band filter	N/A	N/A	SEM023-01	N/A	N/A	

General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date



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Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	umidity/ Temperature Shanghai Meteorological		SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

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 3.3dBi.

Antenna location: Refer to Appendix(Internal photos)



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7 Radio Spectrum Matter Test Results

7.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
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	1 for frequency hopping systems and digital modulation



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7.1.1 E.U.T. Operation

Operating Environment:

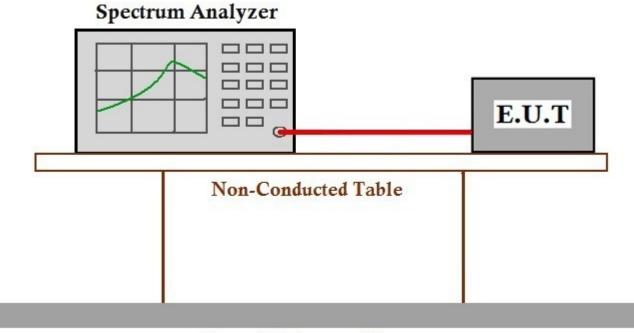
Temperature: 23.5 °C Humidity: 55.8 % RH Atmospheric Pressure: 1020 mbar

Test mode a: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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).

Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

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

Measurement Distance: 3m

Limit:

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

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.

7.2.1 E.U.T. Operation

Operating Environment:

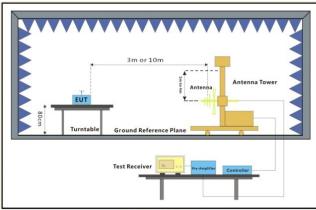
Temperature: 21.7 °C Humidity: 47.1 % RH Atmospheric Pressure: 1020 mbar

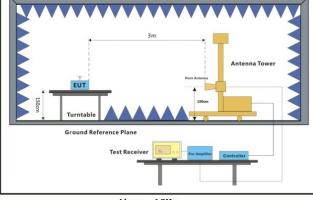
Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation

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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).

Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram





30MHz-1GHz Above 1GHz

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7.2.3 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.

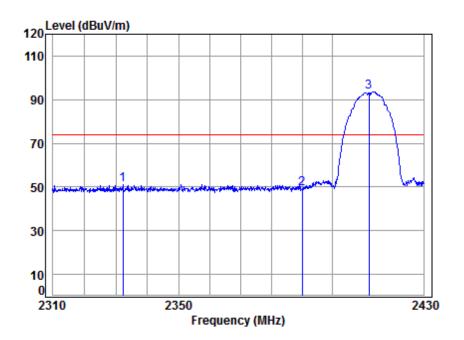


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Pretest the EUT at two antenna, Only worst test data is recorded in the report.

Mode:a; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2412 Band edge

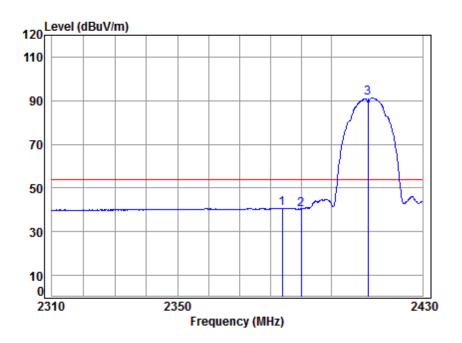
	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2332.217	5.40	28.42	41.15	58.32	50.99	74.00	-23.01	peak
2	2390.000	5.47	28.52	41.17	56.63	49.45	74.00	-24.55	peak
3 *	2412.000	5.50	28.56	41.18	100.83	93.71	74.00	19.71	peak



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Mode:a; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL
Job No : 10089CR/10090CR
Mode : 2412 Band edge

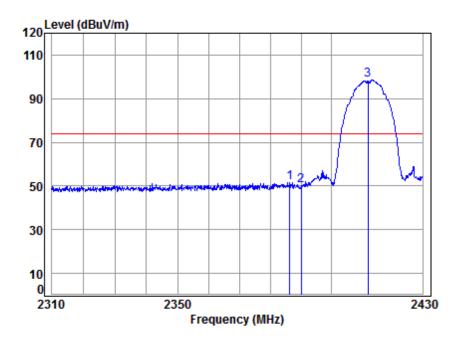
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	2383.924	5.47	28.51	41.17	47.96	40.77	54.00	-13.23	Average	
2	2390.000	5.47	28.52	41.17	47.56	40.38	54.00	-13.62	Average	
3 *	2412.000	5.50	28.56	41.18	98.27	91.15	54.00	37.15	Average	



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Mode:a; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

1 2 3

Job No : 10089CR/10090CR Mode : 2412 Band edge

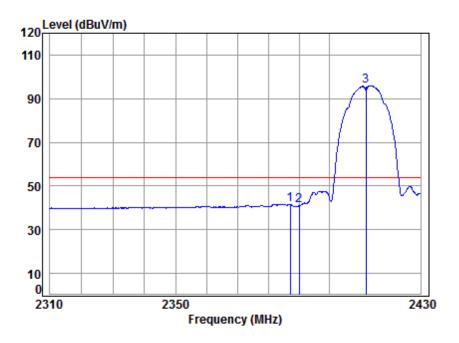
	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2386.340 2390.000								•
*	2412.000	5.50	28.56	41.18	105.57	98.45	74.00	24.45	neak



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Mode:a; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

1 2 3

Job No : 10089CR/10090CR Mode : 2412 Band edge

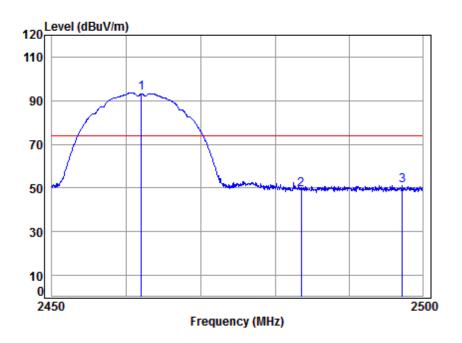
	Freq				Read Level				Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	2387.186								_	
	2390.000	5.47	28.52	41.17	48.10	40.92	54.00	-13.08	Average	
*	2412.000	5.50	28.56	41.18	103.12	96.00	54.00	42.00	Average	



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Mode:a; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2462 Band edge

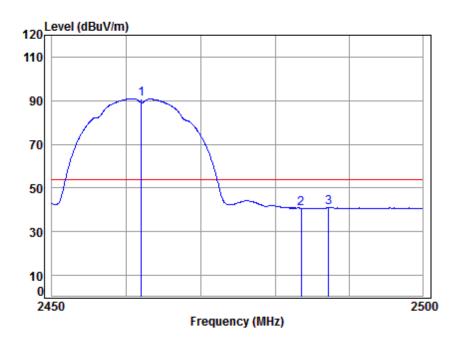
	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	* 2462.000	5.57	28.64	41.20	100.45	93.46	74.00	19.46	peak
2	2483.500	5.60	28.67	41.21	56.28	49.34	74.00	-24.66	peak
3	2497.224	5.62	28.70	41.22	58.10	51.20	74.00	-22.80	peak



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Mode:a; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2462 Band edge

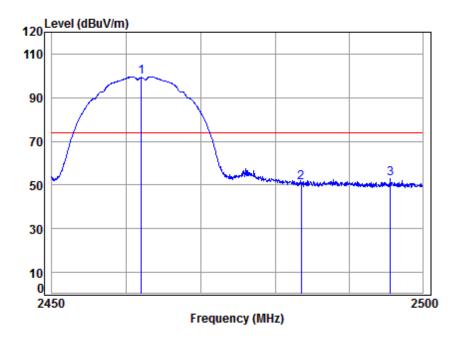
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	5.57	28.64	41.20	97.95	90.96	54.00	36.96	Average
2	2483.500	5.60	28.67	41.21	47.68	40.74	54.00	-13.26	Average
3	2487.204	5.60	28.68	41.21	47.90	40.97	54.00	-13.03	Average



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Mode:a; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR Mode : 2462 Band edge

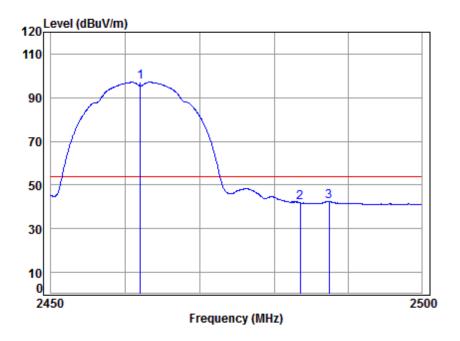
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	5.57	28.64	41.20	106.55	99.56	74.00	25.56	peak
2	2483.500	5.60	28.67	41.21	57.88	50.94	74.00	-23.06	peak
3	2495.610	5.61	28.69	41.22	60.01	53.09	74.00	-20.91	peak



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Mode:a; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR Mode : 2462 Band edge

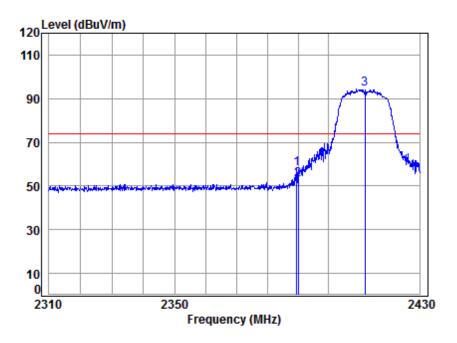
	Freq				Read Level				Remark
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	5.57	28.64	41.20	104.01	97.02	54.00	43.02	Average
2	2483.500	5.60	28.67	41.21	48.87	41.93	54.00	-12.07	Average
3	2487.405	5.60	28.68	41.21	49.40	42.47	54.00	-11.53	Average



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Mode:a; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2412 Band edge

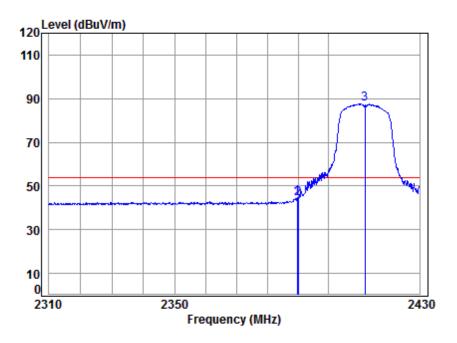
Freq		Ant Factor						Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.605								•
2390.000 * 2412.000								•



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Mode:a; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2412 Band edge

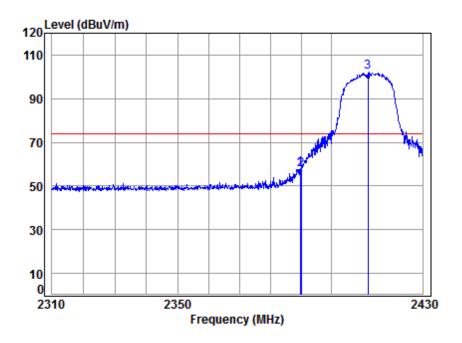
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.726	5.47	28.52	41.17	51.88	44.70	54.00	-9.30	Average
2	2390.000	5.47	28.52	41.17	51.21	44.03	54.00	-9.97	Average
3 *	2412.000	5.50	28.56	41.18	94.82	87.70	54.00	33.70	Average



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Mode:a; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

1 2 3

Job No : 10089CR/10090CR Mode : 2412 Band edge

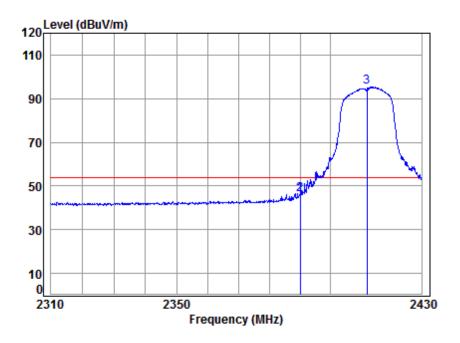
Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.726								•
2390.000								•



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Mode:a; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR Mode : 2412 Band edge

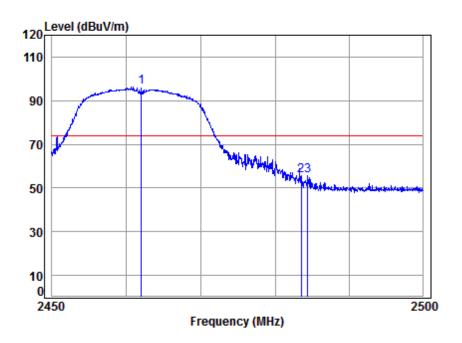
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.47	28.52	41.17	53.31	46.13	54.00	-7.87	Average
2	2390.000	5.47	28.52	41.17	53.31	46.13	54.00	-7.87	Average
3 *	2412.000	5.50	28.56	41.18	102.49	95.37	54.00	41.37	Average



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Mode:a; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2462 Band edge

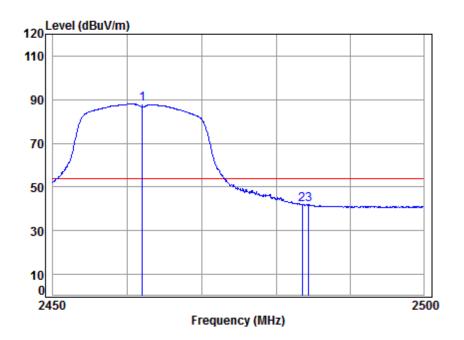
	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	* 2462.000								•
2	2483.500	5.60	28.6/	41.21	62.5/	55.63	/4.00	-18.3/	peak
3	2484.392	5.60	28.67	41.21	62.83	55.89	74.00	-18.11	neak



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Mode:a; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber

1 2 3

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2462 Band edge

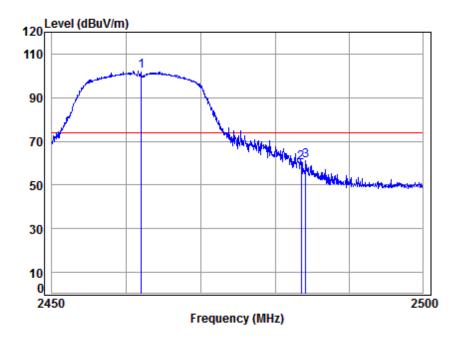
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	* 2462.000	5.57	28.64	41.20	94.98	87.99	54.00	33.99	Average	
2	2483.500	5.60	28.67	41.21	48.90	41.96	54.00	-12.04	Average	
;	2484.392	5.60	28.67	41.21	48.92	41.98	54.00	-12.02	Average	



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Mode:a; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR Mode : 2462 Band edge

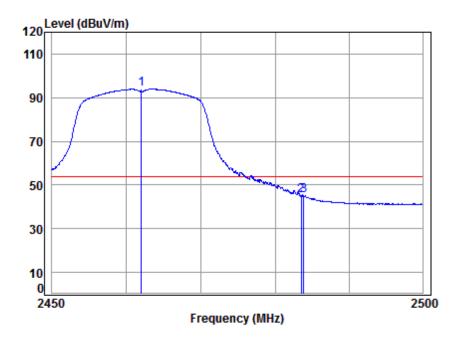
		Freq					Level			Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	*	2462.000	5.57	28.64	41.20	109.26	102.27	74.00	28.27	peak
2		2483.500	5.60	28.67	41.21	66.95	60.01	74.00	-13.99	peak
3		2484.141	5.60	28.67	41.21	68.07	61.13	74.00	-12.87	peak



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Mode:a; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

1 2 3

Job No : 10089CR/10090CR Mode : 2462 Band edge

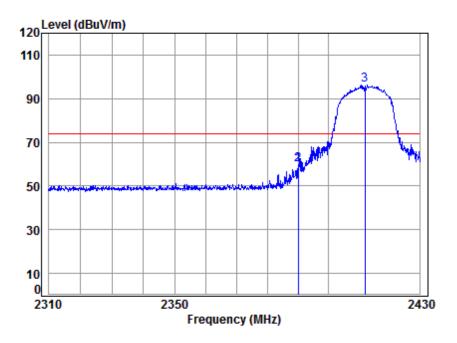
Freq						Limit Line		Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2462.000 2483.500								_	
2483.890								_	



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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2412 Band edge

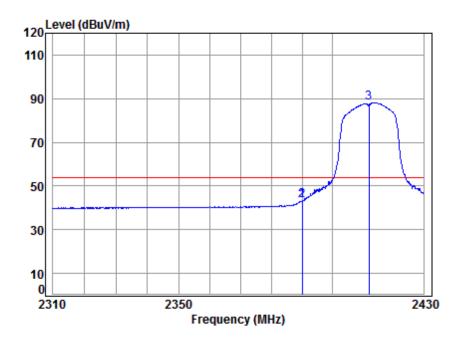
	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.47	28.52	41.17	67.08	59.90	74.00	-14.10	peak
2	2390.000	5.47	28.52	41.17	67.08	59.90	74.00	-14.10	peak
3 *	2412.000	5.50	28.56	41.18	103.28	96.16	74.00	22.16	peak



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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2412 Band edge

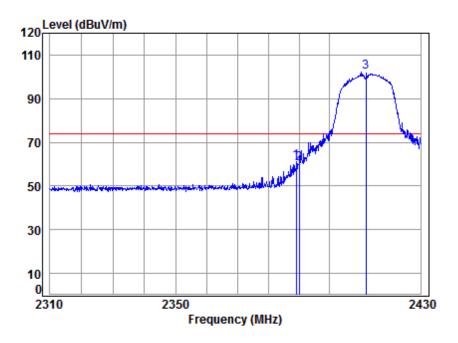
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.968	5.47	28.52	41.17	50.35	43.17	54.00	-10.83	Average	
2	2390.000	5.47	28.52	41.17	50.35	43.17	54.00	-10.83	Average	
3 *	2412.000	5.50	28.56	41.18	95.25	88.13	54.00	34.13	Average	



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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR Mode : 2412 Band edge

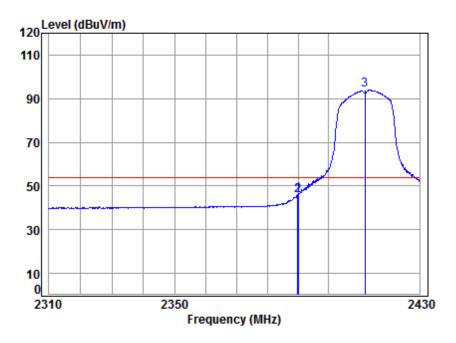
Freq		Ant Factor						Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389.121								•
2390.000								•



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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

1 2 3

Job No : 10089CR/10090CR Mode : 2412 Band edge

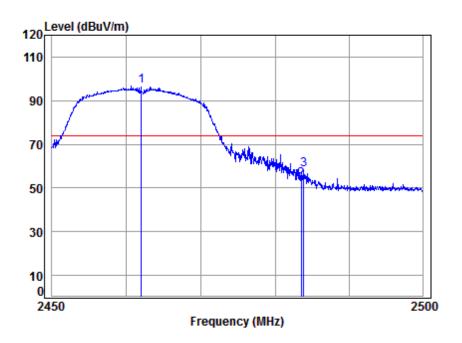
Freq						Limit Line		Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
2389.847 2390.000								_	
2412.000								_	



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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2462 Band edge

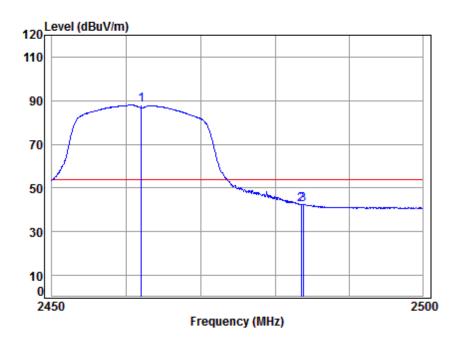
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	*	2462.000	5.57	28.64	41.20	103.60	96.61	74.00	22.61	peak	
2		2483.500	5.60	28.67	41.21	60.92	53.98	74.00	-20.02	peak	
3		2483.890	5.60	28.67	41.21	65.35	58.41	74.00	-15.59	peak	



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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL
Job No : 10089CR/10090CR
Mode : 2462 Band edge

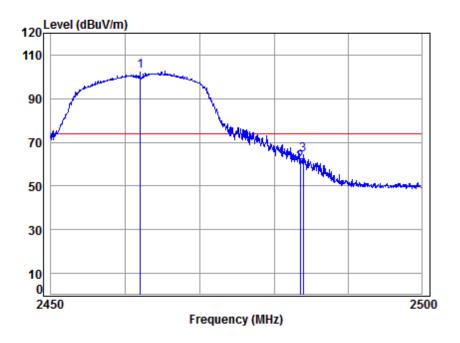
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 *	2462.000	5.57	28.64	41.20	94.90	87.91	54.00	33.91	Average	
2	2483.500	5.60	28.67	41.21	49.40	42.46	54.00	-11.54	Average	
3	2483.790	5.60	28.67	41.21	49.41	42.47	54.00	-11.53	Average	



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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR Mode : 2462 Band edge

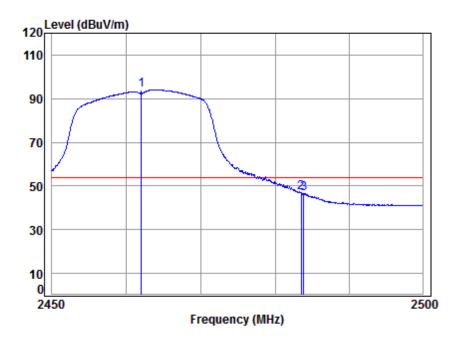
	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 *	2462.000	5.57	28.64	41.20	109.67	102.68	74.00	28.68	peak
2	2483.500	5.60	28.67	41.21	67.64	60.70	74.00	-13.30	peak
3	2483 940	5 60	28 67	41 21	71 15	64 21	74 00	-9 79	neak



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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

1 2 3

Job No : 10089CR/10090CR Mode : 2462 Band edge

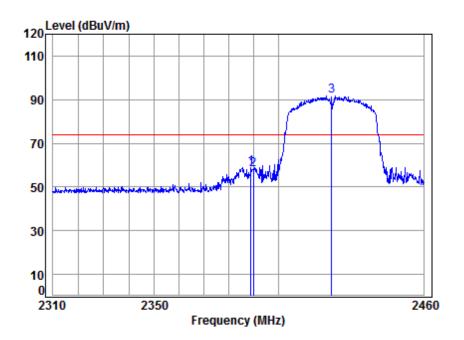
Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2462.000 2483.500								_
2483.890								_



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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber

1

Condition: 3m HORIZONTAL
Job No : 10089CR/10090CR
Mode : 2422 Band edge
: 2.4G WIFI 11N40

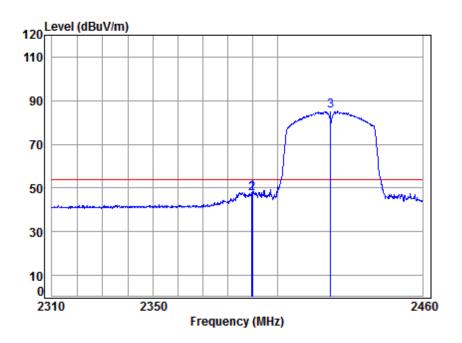
Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2388.925 2390.000								•
2422.000	5.52	28.57	41.19	98.73	91.63	74.00	17.63	neak



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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber

1 2 3

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2422 Band edge

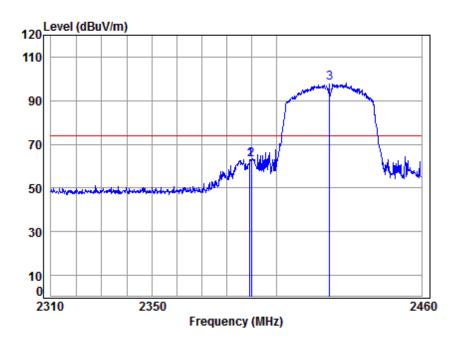
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.827	5.47	28.52	41.17	55.03	47.85	54.00	-6.15	Average	
2	2390.000	5.47	28.52	41.17	54.75	47.57	54.00	-6.43	Average	
*	2422.000	5.52	28.57	41.19	92.44	85.34	54.00	31.34	Average	



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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR Mode : 2422 Band edge

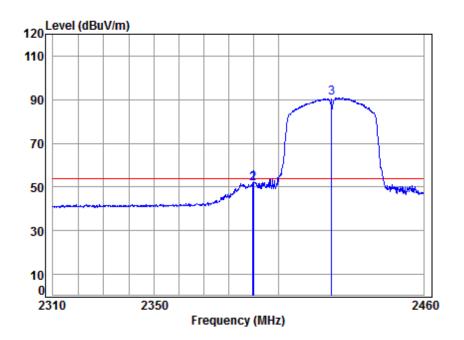
	Freq		Ant Factor						Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.376								•	
2	2390.000	5.47	28.52	41.17	70.20	63.02	74.00	-10.98	peak	
3 *	2422.000	5.52	28.57	41.19	105.13	98.03	74.00	24.03	peak	



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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

1 2 3

Job No : 10089CR/10090CR Mode : 2422 Band edge

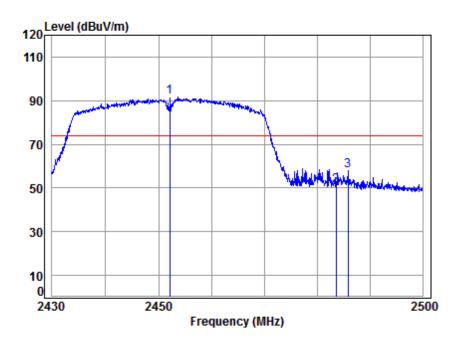
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.677	5.47	28.52	41.17	59.34	52.16	54.00	-1.84	Average	
2	2390.000	5.47	28.52	41.17	58.68	51.50	54.00	-2.50	Average	
*	2422.000	5.52	28.57	41.19	97.83	90.73	54.00	36.73	Average	



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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2452 Band edge

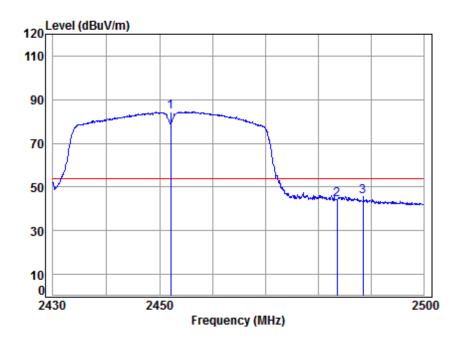
Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
* 2452.000 2483.500								•
2465.500								•



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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber

1 2 3

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR Mode : 2452 Band edge

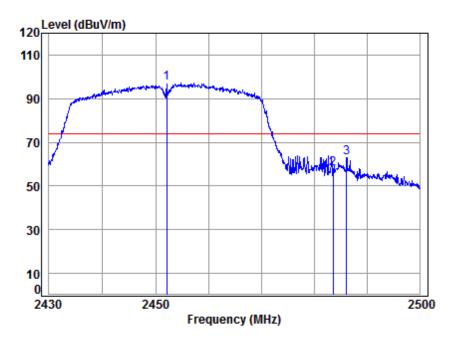
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
	* 2452.000	5.56	28.62	41.20	91.54	84.52	54.00	30.52	Average	
)	2483.500	5.60	28.67	41.21	51.06	44.12	54.00	-9.88	Average	
,	2488.454	5.61	28.68	41.21	52.38	45.46	54.00	-8.54	Average	



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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR Mode : 2452 Band edge

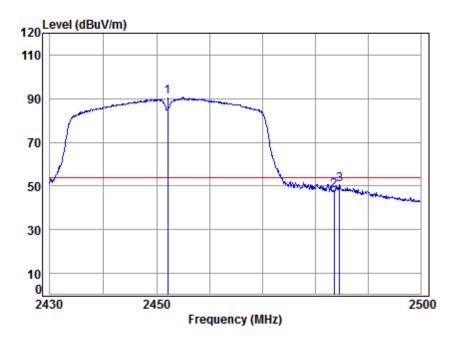
	Freq		Ant Factor						Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	* 2452.000								•
2	2483.500	5.60	28.67	41.21	64.69	57.75	74.00	-16.25	peak
3	2486, 052	5.60	28 68	41 21	69.71	62.78	74 00	-11.22	neak



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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

1 2 3

Job No : 10089CR/10090CR Mode : 2452 Band edge

		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		_
*	2452.000	5.56	28.62	41.20	97.72	90.70	54.00	36.70	Average	
2	2483.500	5.60	28.67	41.21	54.72	47.78	54.00	-6.22	Average	
,	2484.570	5.60	28.68	41.21	57.69	50.76	54.00	-3.24	Average	



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7.3 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

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.



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7.3.1 E.U.T. Operation

Operating Environment:

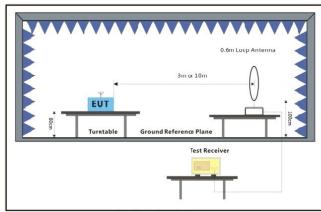
Temperature: 22.7 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

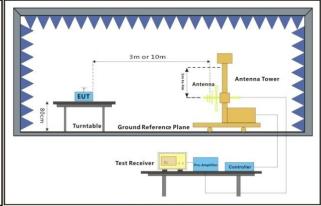
Test mode a:TX mode_Keep the EUT in continuously transmitting mode with all modulation

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); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40).

Only the data of worst case is recorded in the report.

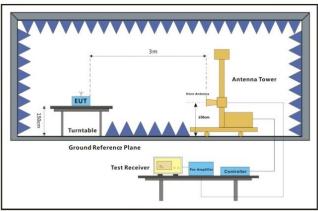
7.3.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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7.3.3 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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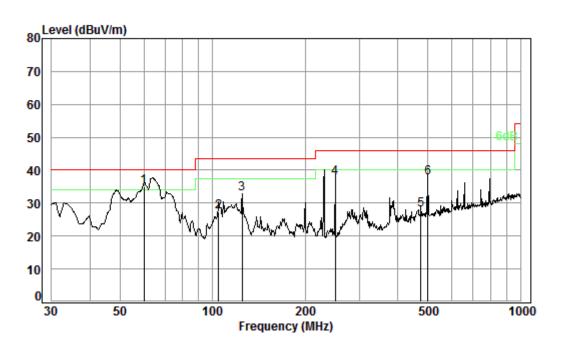
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Pretest the EUT at two antenna, Only worst test data is recorded in the report.

30MHz~1GHz

QP value:

Mode: a; Polarization: Horizontal;



Condition: 3m HORIZONTAL

Job No. : 10089CR

Test mode: a

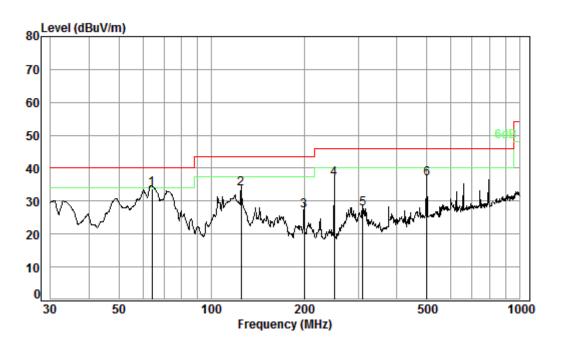
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	59.86	0.80	13.21	27.39	48.48	35.10	40.00	-4.90
2	104.54	1.21	13.78	27.32	39.61	27.28	43.50	-16.22
3	125.01	1.26	13.26	27.21	45.43	32.74	43.50	-10.76
4	250.30	1.68	18.96	26.76	43.94	37.82	46.00	-8.18
5	475.50	2.51	24.10	27.51	28.84	27.94	46.00	-18.06
6	501.18	2.60	24.63	27.61	38.16	37.78	46.00	-8.22



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Mode :a; Polarization: Vertical



Condition: 3m VERTICAL

Job No. : 10089CR

Test mode: a

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	63.98	0.80	13.03	27.39	47.26	33.70	40.00	-6.30
2	125.01	1.26	13.26	27.21	46.43	33.74	43.50	-9.76
3	199.99	1.40	16.50	26.90	36.12	27.12	43.50	-16.38
4	250.30	1.68	18.96	26.76	42.94	36.82	46.00	-9.18
5	310.00	1.93	19.92	26.70	32.40	27.55	46.00	-18.45
6	501.18	2.60	24.63	27.61	37.16	36.78	46.00	-9.22

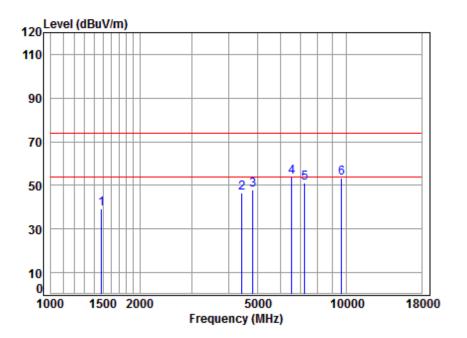


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Above 1GHz

Mode:a; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR

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

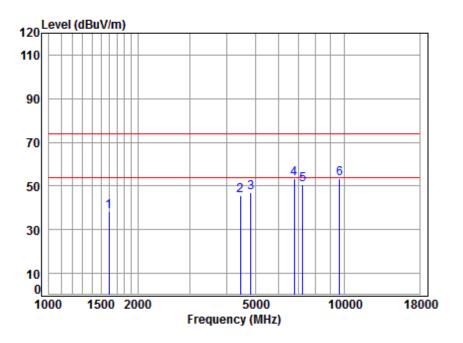
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1481.553	5.42	25.73	40.69	48.55	39.01	74.00	-34.99	peak
2	4443.453	7.50	33.50	43.25	48.84	46.59	74.00	-27.41	peak
3	4824.000	7.91	34.00	43.63	49.52	47.80	74.00	-26.20	peak
4	6545.263	11.41	35.63	42.37	49.00	53.67	74.00	-20.33	peak
5	7236.000	10.07	36.09	41.83	46.59	50.92	74.00	-23.08	peak
6	9648.000	10.77	37.69	38.36	43.20	53.30	74.00	-20.70	peak



Report No.: SZEM181101008902

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Mode:a; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR

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

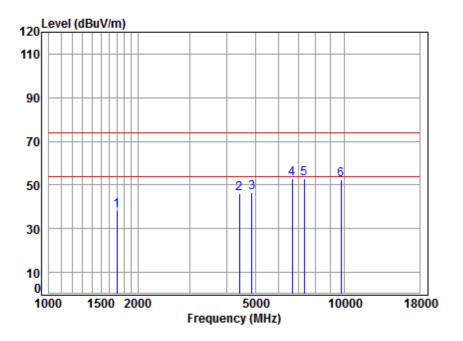
		10 111	1 110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	- MII-					-ID- 3//	-ID- 3//			
	MHz	dB	aB/m	dB	abuv	aBuv/m	aBuv/m	dB		
1	1597.181	5.35	26.24	40.77	47.54	38.36	74.00	-35.64	peak	
2	4456.315	7.51	33.53	43.26	48.04	45.82	74.00	-28.18	peak	
3	4824.000	7.91	34.00	43.63	48.70	46.98	74.00	-27.02	peak	
4	6776.265	10.75	35.77	42.18	48.87	53.21	74.00	-20.79	peak	
5	7236.000	10.07	36.09	41.83	46.48	50.81	74.00	-23.19	peak	
6	9648.000	10.77	37.69	38.36	43.11	53.21	74.00	-20.79	peak	



Report No.: SZEM181101008902

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Mode:a; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR

Mode : 2437 TX RSE Note : 2.4G WIFI 11B

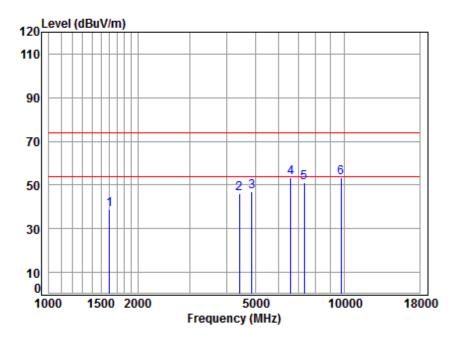
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	1697.129	5.23	26.66	40.83	47.14	38.20	74.00	-35.80	peak
2	4417.841	7.47	33.46	43.22	48.46	46.17	74.00	-27.83	peak
}	4874.000	7.96	34.05	43.68	48.09	46.42	74.00	-27.58	peak
Ļ	6679.040	11.02	35.71	42.26	48.58	53.05	74.00	-20.95	peak
,	7311.000	10.05	36.15	41.78	48.48	52.90	74.00	-21.10	peak
,	9748.000	10.82	37.75	38.20	42.25	52.62	74.00	-21.38	peak



Report No.: SZEM181101008902

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Mode:a; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR

Mode : 2437 TX RSE Note : 2.4G WIFI 11B

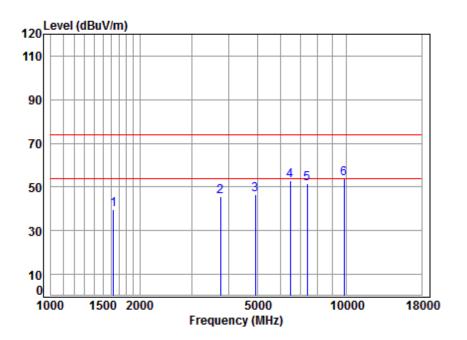
,	. 2.	TO WILL	1 110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	5.35	26.26	40.77	47.92	38.76	74.00	-35.24	peak
2	4417.841	7.47	33.46	43.22	48.21	45.92	74.00	-28.08	peak
3	4874.000	7.96	34.05	43.68	48.74	47.07	74.00	-26.93	peak
4	6602.265	11.24	35.66	42.32	48.62	53.20	74.00	-20.80	peak
5	7311.000	10.05	36.15	41.78	46.83	51.25	74.00	-22.75	peak
6	9748.000	10.82	37.75	38.20	42.80	53.17	74.00	-20.83	peak



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Mode:a; Polarization:Horizontal; Modulation:802.11b; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR

Mode : 2462 TX RSE Note : 2.4G WIFI 11B

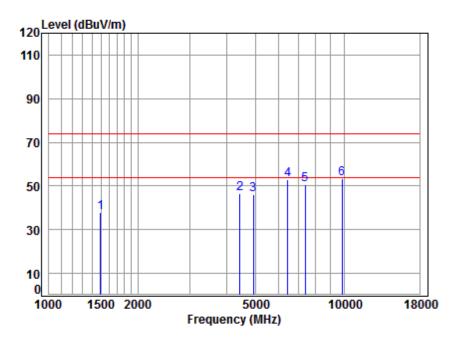
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.825	5.31	26.38	40.79	48.70	39.60	74.00	-34.40	peak
2	3757.637	6.74	32.23	42.46	49.27	45.78	74.00	-28.22	peak
3	4924.000	8.01	34.11	43.73	47.96	46.35	74.00	-27.65	peak
4	6470.026	11.48	35.57	42.43	48.39	53.01	74.00	-20.99	peak
5	7386.000	10.03	36.21	41.72	47.17	51.69	74.00	-22.31	peak
6	9848.000	10.87	37.81	38.04	43.16	53.80	74.00	-20.20	peak



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Mode:a; Polarization:Vertical; Modulation:802.11b; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR

Mode : 2462 TX RSE Note : 2.4G WIFI 11B

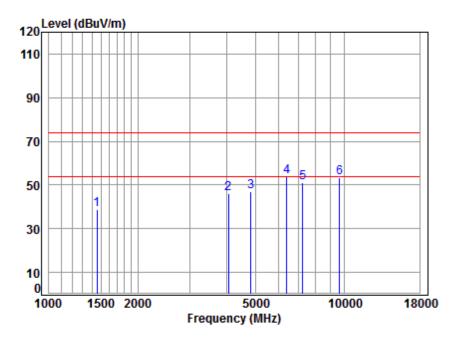
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1494.455	5.46	25.78	40.70	47.27	37.81	74.00	-36.19	peak
2	4430.628	7.48	33.48	43.23	48.95	46.68	74.00	-27.32	peak
3	4924.000	8.01	34.11	43.73	47.92	46.31	74.00	-27.69	peak
4	6432.732	11.41	35.54	42.46	48.31	52.80	74.00	-21.20	peak
5	7386.000	10.03	36.21	41.72	46.17	50.69	74.00	-23.31	peak
6	9848.000	10.87	37.81	38.04	42.86	53.50	74.00	-20.50	peak



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Mode:a; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR

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

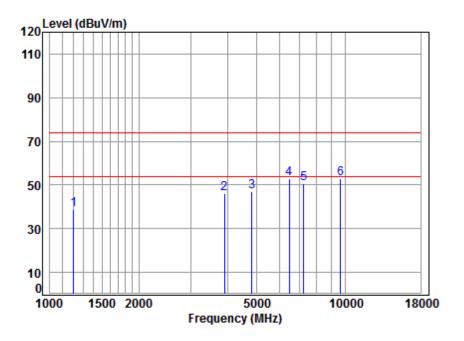
Freq			Preamp Factor					Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1456.081	5.34	25.64	40.68	48.26	38.56	74.00	-35.44	peak	
4050.904	7.04	32.80	42.81	49.24	46.27	74.00	-27.73	peak	
4824.000	7.91	34.00	43.63	48.77	47.05	74.00	-26.95	peak	
6395.654	11.34	35.50	42.49	49.39	53.74	74.00	-20.26	peak	
7236.000	10.07	36.09	41.83	46.95	51.28	74.00	-22.72	peak	
9648 000	10 77	37 69	38 36	43 48	53 58	74 00	-20 42	neak	



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Mode:a; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR

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

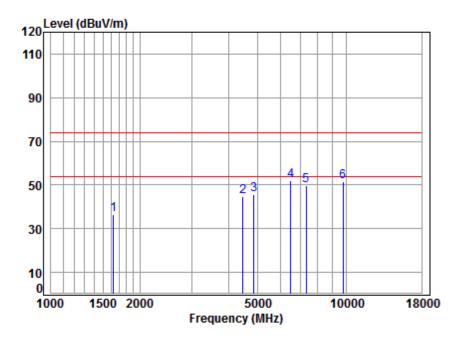
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	1203.199	4.43	24.60	40.49	50.23	38.77	74.00	-35.23	peak
2	3901.516	6.88	32.51	42.63	49.35	46.11	74.00	-27.89	peak
}	4824.000	7.91	34.00	43.63	48.78	47.06	74.00	-26.94	peak
Ļ	6470.026	11.48	35.57	42.43	48.16	52.78	74.00	-21.22	peak
,	7236.000	10.07	36.09	41.83	46.19	50.52	74.00	-23.48	peak
,	9648,000	10.77	37.69	38.36	42.95	53.05	74.00	-20.95	peak



Report No.: SZEM181101008902

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Mode:a; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR

Mode : 2437 TX RSE Note : 2.4G WIFI 11G

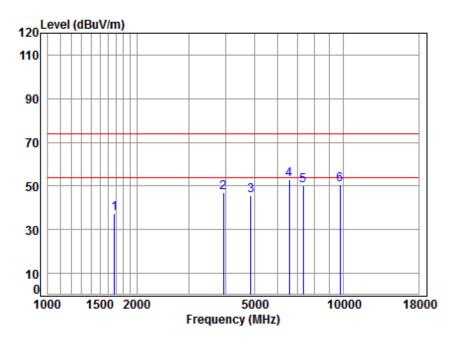
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1629.825	5.31	26.38	40.79	45.80	36.70	74.00	-37.30	peak
2	4469.214	7.53	33.55	43.27	46.95	44.76	74.00	-29.24	peak
3	4874.000	7.96	34.05	43.68	47.11	45.44	74.00	-28.56	peak
4	6488.754	11.52	35.59	42.41	47.11	51.81	74.00	-22.19	peak
5	7311.000	10.05	36.15	41.78	45.11	49.53	74.00	-24.47	peak
6	9748.000	10.82	37.75	38.20	40.98	51.35	74.00	-22.65	peak



Report No.: SZEM181101008902

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Mode:a; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR

Mode : 2437 TX RSE Note : 2.4G WIFI 11G

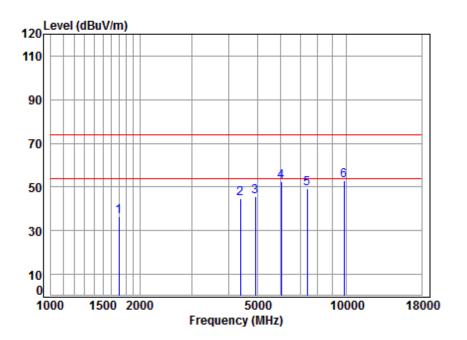
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	5.25	26.58	40.82	46.53	37.54	74.00	-36.46	peak
2	3935.493	6.92	32.58	42.68	50.11	46.93	74.00	-27.07	peak
3	4874.000	7.96	34.05	43.68	47.23	45.56	74.00	-28.44	peak
4	6564.209	11.35	35.64	42.35	48.18	52.82	74.00	-21.18	peak
5	7311.000	10.05	36.15	41.78	45.86	50.28	74.00	-23.72	peak
6	9748.000	10.82	37.75	38.20	40.48	50.85	74.00	-23.15	peak



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Mode:a; Polarization:Horizontal; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR

Mode : 2462 TX RSE Note : 2.4G WIFI 11G

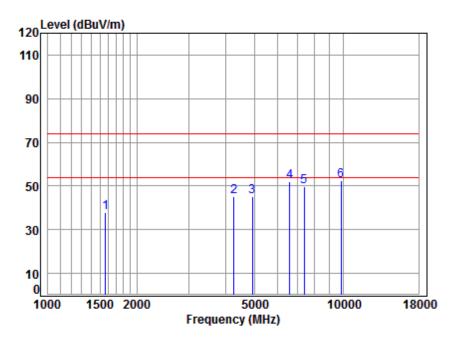
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1702.042	5.23	26.68	40.83	45.49	36.57	74.00	-37.43	peak
4392.376	7.44	33.42	43.19	46.91	44.58	74.00	-29.42	peak
4924.000	8.01	34.11	43.73	47.39	45.78	74.00	-28.22	peak
6018.999	10.61	35.12	42.81	49.45	52.37	74.00	-21.63	peak
7386.000	10.03	36.21	41.72	44.95	49.47	74.00	-24.53	peak
9848,000	10.87	37.81	38.04	42.19	52.83	74.00	-21.17	neak



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Mode:a; Polarization:Vertical; Modulation:802.11g; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR

Mode : 2462 TX RSE Note : 2.4G WIFI 11G

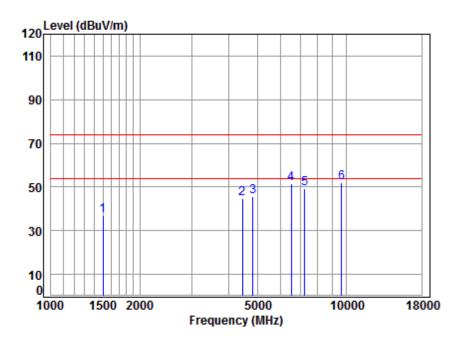
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1565.191	5.39	26.10	40.75	46.91	37.65	74.00	-36.35	peak
2	4267.237	7.30	33.19	43.06	47.75	45.18	74.00	-28.82	peak
3	4924.000	8.01	34.11	43.73	47.00	45.39	74.00	-28.61	peak
4	6583.209	11.30	35.65	42.34	47.39	52.00	74.00	-22.00	peak
5	7386.000	10.03	36.21	41.72	45.05	49.57	74.00	-24.43	peak
6	9848.000	10.87	37.81	38.04	41.74	52.38	74.00	-21.62	peak



Report No.: SZEM181101008902

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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR

Mode : 2412 TX RSE

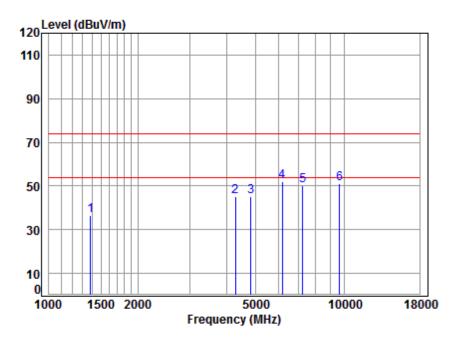
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	5.48	25.80	40.71	46.48	37.05	74.00	-36.95	peak
2	4456.315	7.51	33.53	43.26	46.82	44.60	74.00	-29.40	peak
3	4824.000	7.91	34.00	43.63	47.48	45.76	74.00	-28.24	peak
4	6526.373	11.46	35.62	42.38	47.06	51.76	74.00	-22.24	peak
5	7236.000	10.07	36.09	41.83	45.13	49.46	74.00	-24.54	peak
6	9648.000	10.77	37.69	38.36	41.85	51.95	74.00	-22.05	peak



Report No.: SZEM181101008902

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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR

Mode : 2412 TX RSE

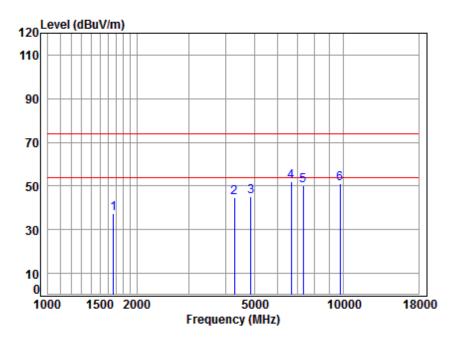
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1382.262	5.09	25.36	40.62	46.63	36.46	74.00	-37.54	peak
2	4279.589	7.31	33.22	43.07	47.78	45.24	74.00	-28.76	peak
3	4824.000	7.91	34.00	43.63	46.99	45.27	74.00	-28.73	peak
4	6177.627	10.92	35.28	42.68	48.67	52.19	74.00	-21.81	peak
5	7236.000	10.07	36.09	41.83	45.95	50.28	74.00	-23.72	peak
6	9648.000	10.77	37.69	38.36	41.07	51.17	74.00	-22.83	peak



Report No.: SZEM181101008902

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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR

Mode : 2437 TX RSE

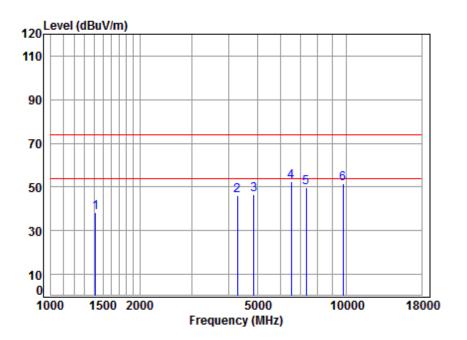
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	5.27	26.54	40.81	46.37	37.37	74.00	-36.63	peak
2	4291.977	7.33	33.24	43.08	47.15	44.64	74.00	-29.36	peak
3	4874.000	7.96	34.05	43.68	47.02	45.35	74.00	-28.65	peak
4	6679.040	11.02	35.71	42.26	47.33	51.80	74.00	-22.20	peak
5	7311.000	10.05	36.15	41.78	45.90	50.32	74.00	-23.68	peak
6	9748.000	10.82	37.75	38.20	40.76	51.13	74.00	-22.87	peak



Report No.: SZEM181101008902

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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR

Mode : 2437 TX RSE

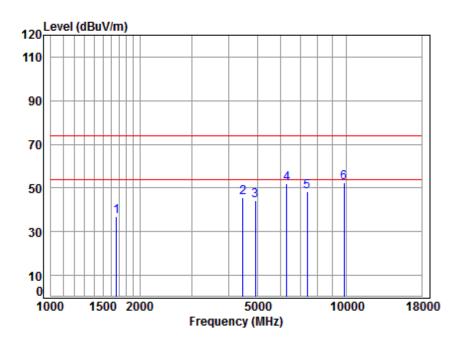
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1414.597	5.20	25.48	40.65	48.08	38.11	74.00	-35.89	peak
2	4279.589	7.31	33.22	43.07	48.75	46.21	74.00	-27.79	peak
3	4874.000	7.96	34.05	43.68	48.09	46.42	74.00	-27.58	peak
4	6507.536	11.52	35.60	42.40	47.86	52.58	74.00	-21.42	peak
5	7311.000	10.05	36.15	41.78	45.38	49.80	74.00	-24.20	peak
6	9748.000	10.82	37.75	38.20	41.31	51.68	74.00	-22.32	peak



Report No.: SZEM181101008902

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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR

Mode : 2462 TX RSE

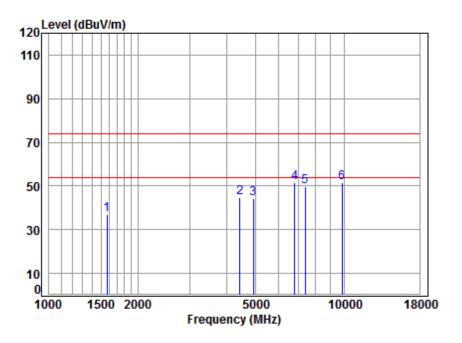
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667.951	5.27	26.54	40.81	46.18	37.18	74.00	-36.82	peak
2	4469.214	7.53	33.55	43.27	47.92	45.73	74.00	-28.27	peak
3	4924.000	8.01	34.11	43.73	46.07	44.46	74.00	-29.54	peak
4	6285.695	11.13	35.39	42.58	48.11	52.05	74.00	-21.95	peak
5	7386.000	10.03	36.21	41.72	44.06	48.58	74.00	-25.42	peak
6	9848.000	10.87	37.81	38.04	41.97	52.61	74.00	-21.39	peak



Report No.: SZEM181101008902

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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:20MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR

Mode : 2462 TX RSE

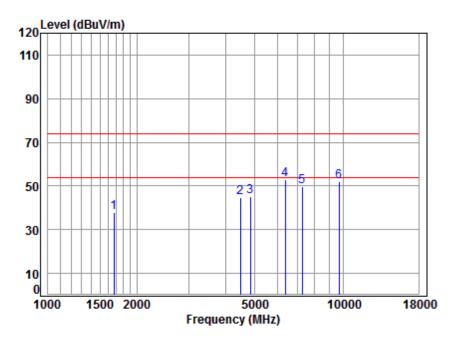
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1574.265	5.38	26.14	40.75	46.21	36.98	74.00	-37.02	peak
2	4430.628	7.48	33.48	43.23	47.20	44.93	74.00	-29.07	peak
3	4924.000	8.01	34.11	43.73	46.07	44.46	74.00	-29.54	peak
4	6795.879	10.69	35.78	42.17	47.31	51.61	74.00	-22.39	peak
5	7386.000	10.03	36.21	41.72	45.28	49.80	74.00	-24.20	peak
6	9848 . 000	10.87	37.81	38.04	40.71	51.35	74.00	-22.65	neak



Report No.: SZEM181101008902

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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR

Mode : 2422 TX RSE

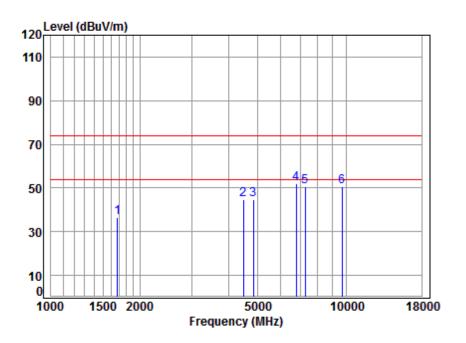
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	5.26	26.56	40.82	46.87	37.87	74.00	-36.13	peak
2	4495.125	7.55	33.59	43.30	46.66	44.50	74.00	-29.50	peak
3	4844.000	7.93	34.02	43.65	46.76	45.06	74.00	-28.94	peak
4	6377.195	11.31	35.48	42.51	48.48	52.76	74.00	-21.24	peak
5	7266.000	10.06	36.12	41.81	45.47	49.84	74.00	-24.16	peak
6	9688.000	10.79	37.71	38.30	42.02	52.22	74.00	-21.78	peak



Report No.: SZEM181101008902

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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:Low



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR

Mode : 2422 TX RSE

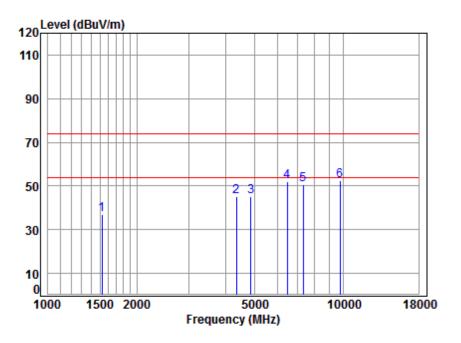
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	5.25	26.58	40.82	45.39	36.40	74.00	-37.60	peak
2	4482.150	7.54	33.57	43.29	47.07	44.89	74.00	-29.11	peak
3	4844.000	7.93	34.02	43.65	46.32	44.62	74.00	-29.38	peak
4	6776.265	10.75	35.77	42.18	47.56	51.90	74.00	-22.10	peak
5	7266.000	10.06	36.12	41.81	46.47	50.84	74.00	-23.16	peak
6	9688,000	10.79	37.71	38.30	40.53	50.73	74.00	-23.27	neak



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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:middle



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR

Mode : 2437 TX RSE

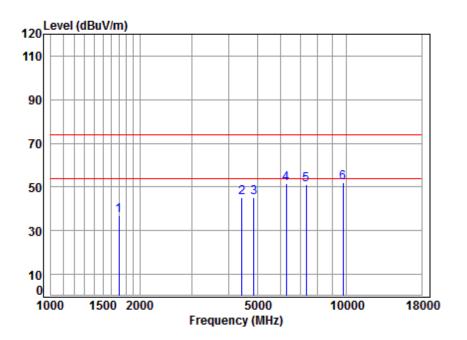
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1525.000	5.45	25.91	40.72	46.42	37.06	74.00	-36.94	peak
2	4354.454	7.40	33.35	43.15	47.48	45.08	74.00	-28.92	peak
3	4874.000	7.96	34.05	43.68	46.75	45.08	74.00	-28.92	peak
4	6470.026	11.48	35.57	42.43	47.19	51.81	74.00	-22.19	peak
5	7311.000	10.05	36.15	41.78	46.15	50.57	74.00	-23.43	peak
6	9748 000	10 82	37 75	38 20	42 11	52 48	74 00	-21 52	neak



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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:middle



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR

Mode : 2437 TX RSE

Note : 2.4G WIFI 11N 40

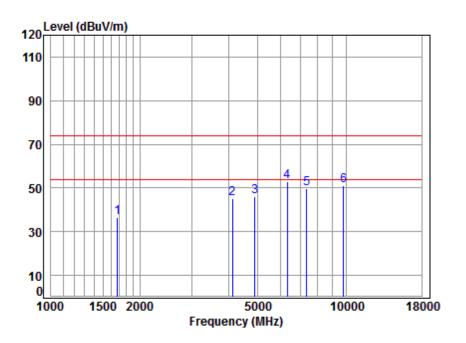
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1702.042	5.23	26.68	40.83	46.10	37.18	74.00	-36.82	peak
2	4430.628	7.48	33.48	43.23	47.60	45.33	74.00	-28.67	peak
3	4874.000	7.96	34.05	43.68	46.69	45.02	74.00	-28.98	peak
4	6267.553	11.10	35.37	42.60	47.74	51.61	74.00	-22.39	peak
5	7311.000	10.05	36.15	41.78	46.46	50.88	74.00	-23.12	peak
6	9748,000	10.82	37.75	38.20	41.63	52.00	74.00	-22.00	neak



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Mode:a; Polarization:Horizontal; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber

Condition: 3m HORIZONTAL Job No : 10089CR/10090CR

Mode : 2452 TX RSE

Note : 2.4G WIFI 11N 40

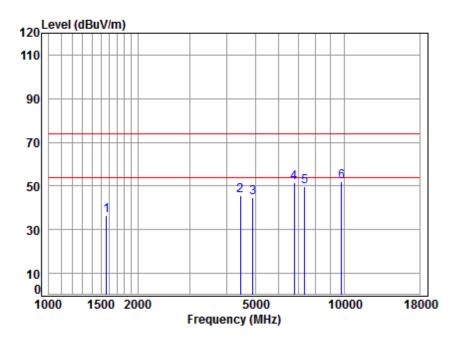
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	5.25	26.58	40.82	45.68	36.69	74.00	-37.31	peak
2	4121.768	7.13	32.93	42.89	48.12	45.29	74.00	-28.71	peak
3	4904.000	7.99	34.09	43.71	47.86	46.23	74.00	-27.77	peak
4	6322.136	11.20	35.43	42.55	48.90	52.98	74.00	-21.02	peak
5	7356.000	10.04	36.19	41.75	45.22	49.70	74.00	-24.30	peak
6	9808.000	10.85	37.79	38.10	40.54	51.08	74.00	-22.92	peak



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Mode:a; Polarization:Vertical; Modulation:802.11n; bandwidth:40MHz; Channel:High



Site : chamber Condition: 3m VERTICAL

Job No : 10089CR/10090CR

Mode : 2452 TX RSE

Note : 2.4G WIFI 11N 40

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.721	5.39	26.12	40.75	45.66	36.42	74.00	-37.58	peak
2	4456.315	7.51	33.53	43.26	47.63	45.41	74.00	-28.59	peak
3	4904.000	7.99	34.09	43.71	46.57	44.94	74.00	-29.06	peak
4	6776.265	10.75	35.77	42.18	47.00	51.34	74.00	-22.66	peak
5	7356.000	10.04	36.19	41.75	45.09	49.57	74.00	-24.43	peak
6	9808,000	10.85	37.79	38.10	41.38	51.92	74.00	-22.08	neak



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8 Photographs

8.1 Test Setup

Please refer to setup photos.

8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.



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9 Appendix

9.1 Appendix 15.247

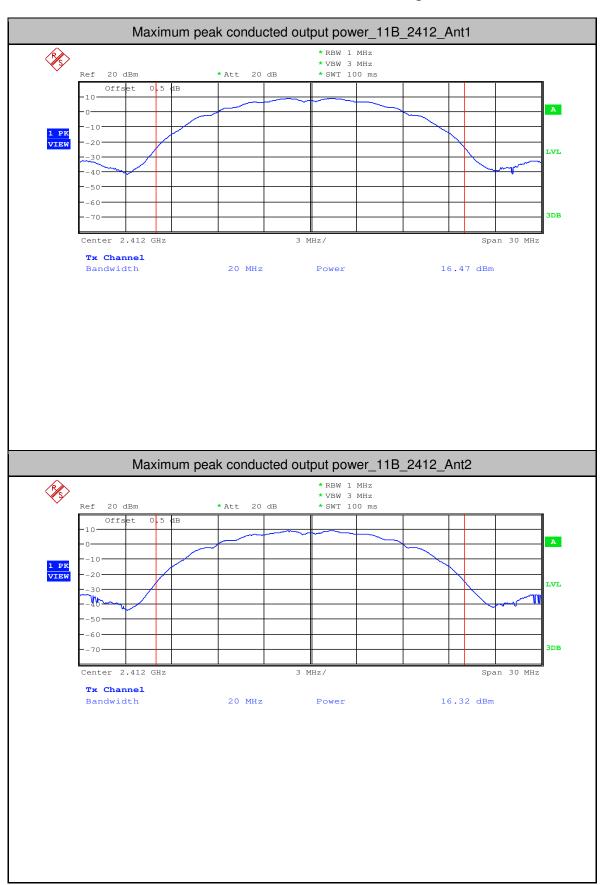
1.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
11B	2412	Ant1	16.47	<30	PASS
11B	2412	Ant2	16.32	<30	PASS
11B	2437	Ant1	16.40	<30	PASS
11B	2437	Ant2	16.22	<30	PASS
11B	2462	Ant1	16.09	<30	PASS
11B	2462	Ant2	16.15	<30	PASS
11G	2412	Ant1	20.14	<30	PASS
11G	2412	Ant2	20.06	<30	PASS
11G	2437	Ant1	20.08	<30	PASS
11G	2437	Ant2	19.76	<30	PASS
11G	2462	Ant1	19.77	<30	PASS
11G	2462	Ant2	19.66	<30	PASS
11N20SISO	2412	Ant1	19.91	<30	PASS
11N20SISO	2412	Ant2	20.08	<30	PASS
11N20SISO	2437	Ant1	20.03	<30	PASS
11N20SISO	2437	Ant2	19.97	<30	PASS
11N20SISO	2462	Ant1	19.38	<30	PASS
11N20SISO	2462	Ant2	19.18	<30	PASS
11N40SISO	2422	Ant1	18.48	<30	PASS
11N40SISO	2422	Ant2	18.15	<30	PASS
11N40SISO	2437	Ant1	20.01	<30	PASS
11N40SISO	2437	Ant2	19.77	<30	PASS
11N40SISO	2452	Ant1	18.05	<30	PASS
11N40SISO	2452	Ant2	18.48	<30	PASS



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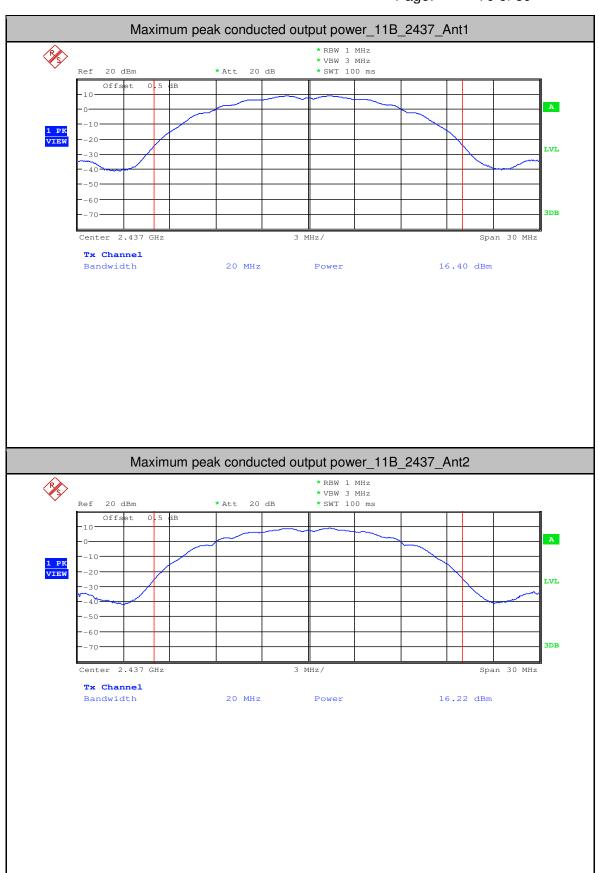
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Report No.: SZEM181101008902

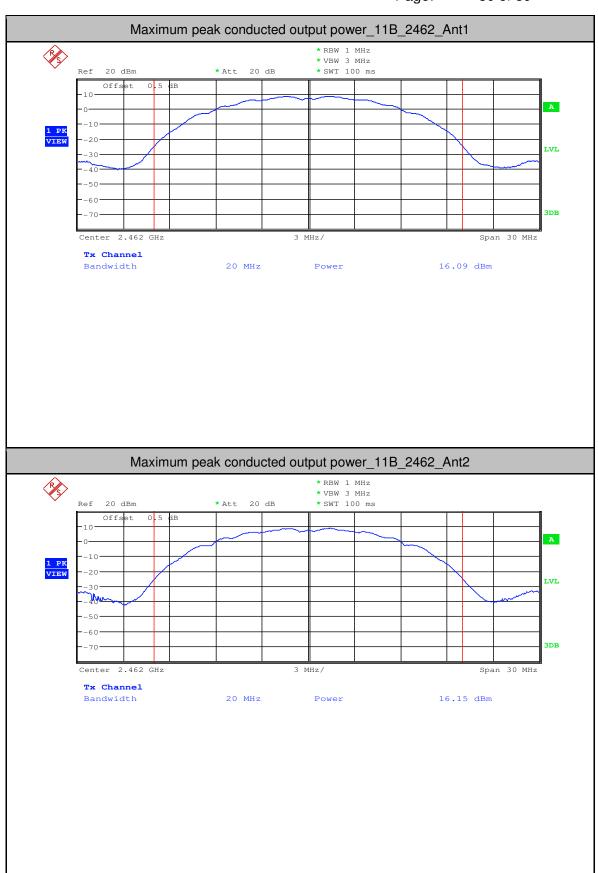
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Report No.: SZEM181101008902

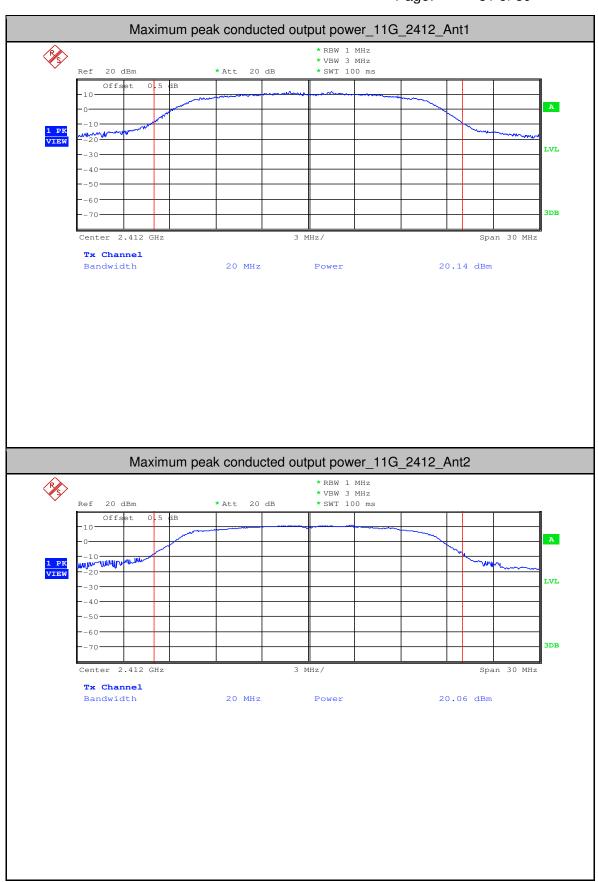
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Report No.: SZEM181101008902

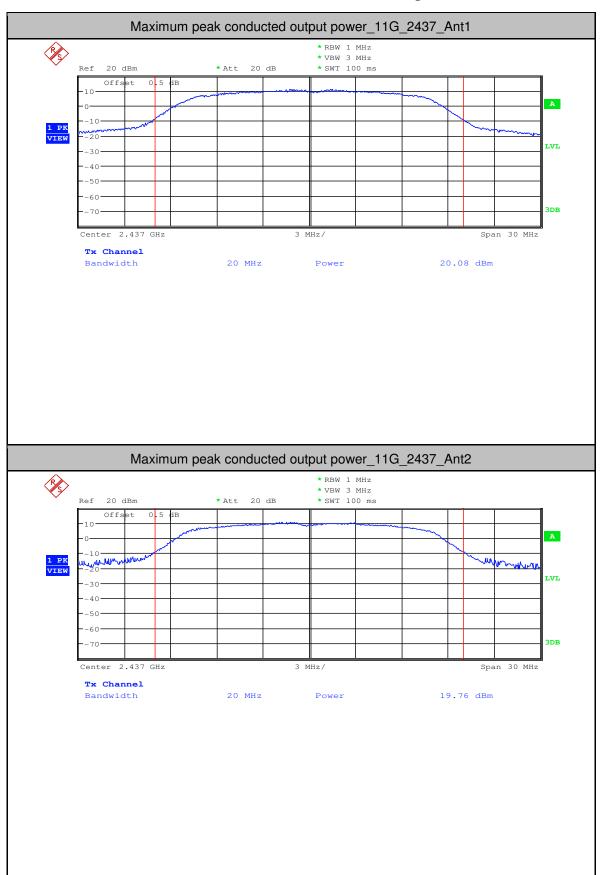
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Report No.: SZEM181101008902

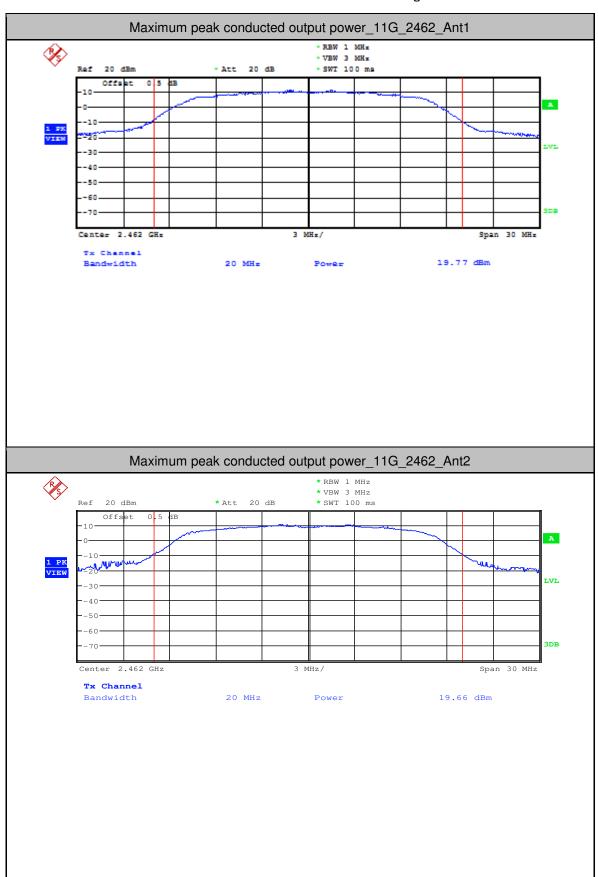
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Report No.: SZEM181101008902

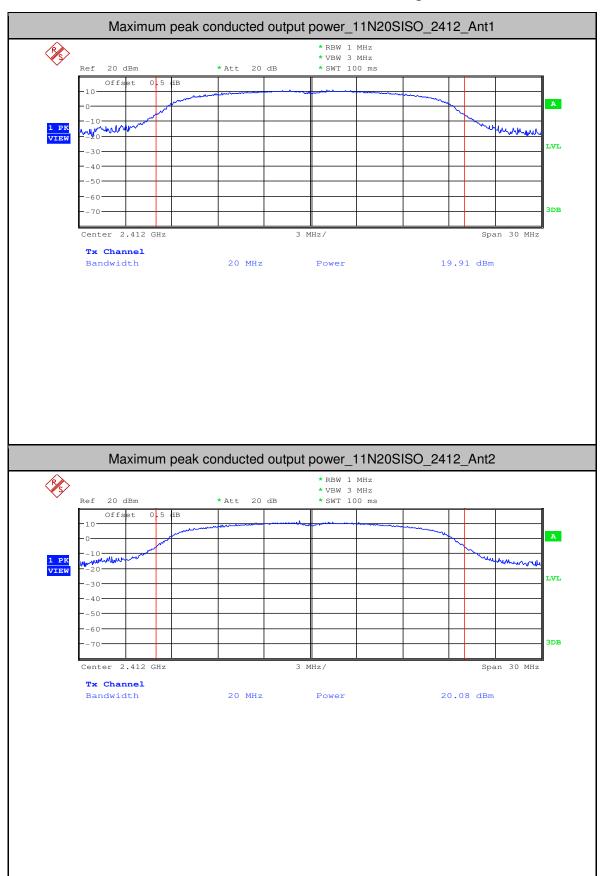
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Report No.: SZEM181101008902

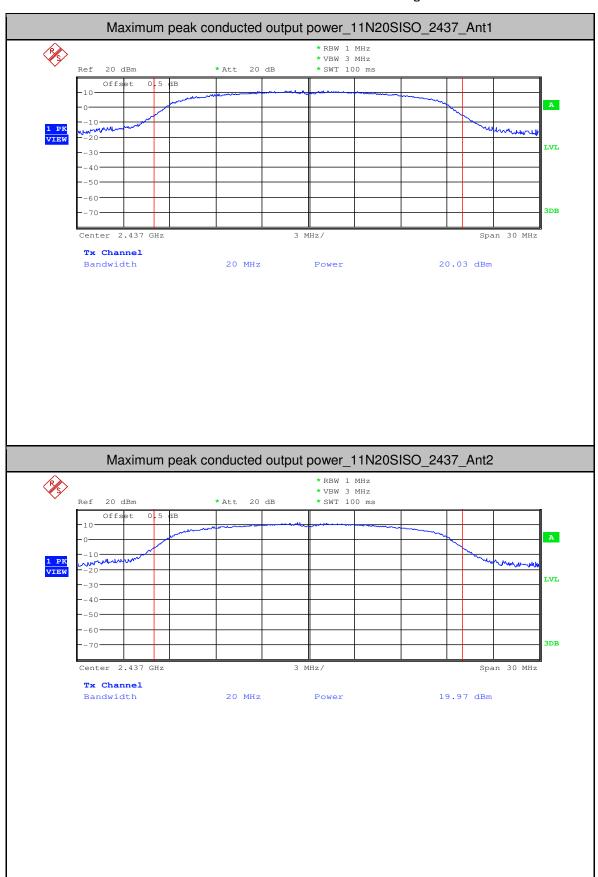
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Report No.: SZEM181101008902

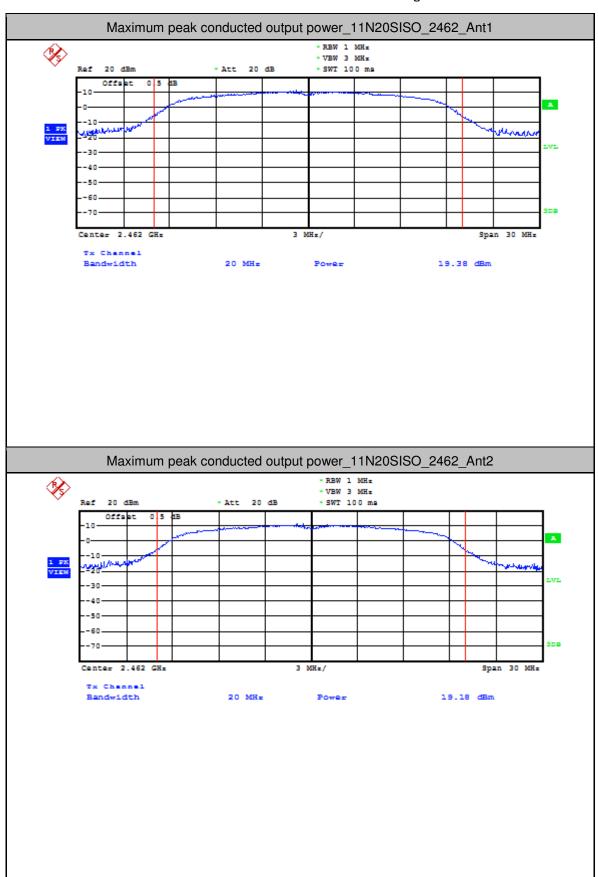
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Report No.: SZEM181101008902

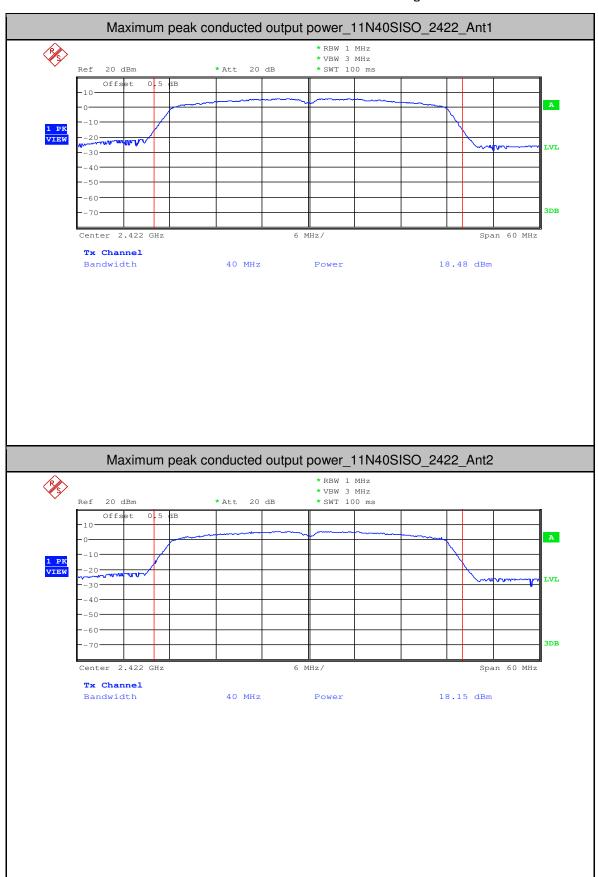
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Report No.: SZEM181101008902

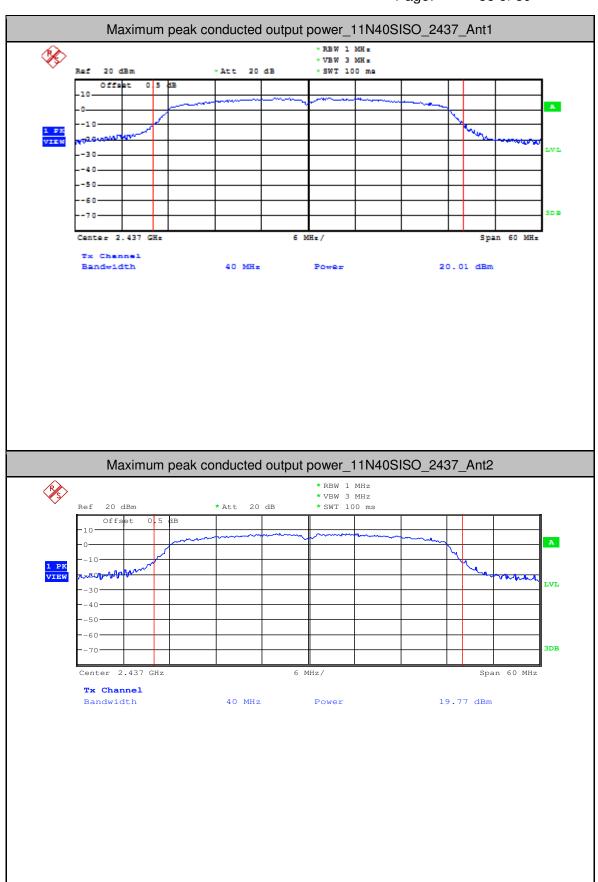
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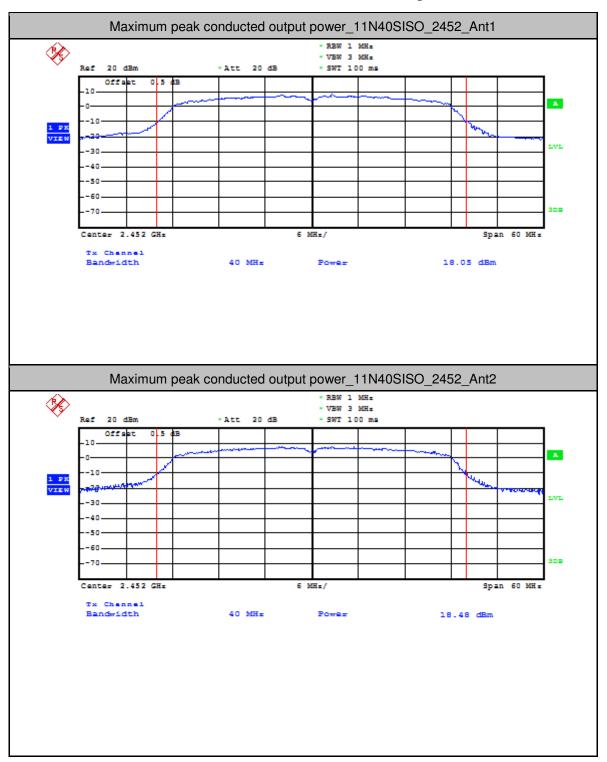
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