TEST REPORT

Application No.:	SZCR2409003651AT
Applicant:	DT Research, Inc.
Address of Applicant:	3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan
Manufacturer:	DT Research, Inc.
Address of Manufacturer:	2000 Concourse Drive, San Jose, CA 95131, USA
Factory:	DT Research, Inc. Taiwan Branch
Address of Factory:	6F., No.36 Wuquan 7 th Rd., Wugu Dist. New Taipei City 248 Taiwan
Equipment Under Test (EUT):	
EUT Name:	Rugged Tablet
Model No.:	DA302xxxxx(x= 0-9, A-Z, - or null, or .,or /), DA302EP ♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	DT Research
FCC ID:	YE3600-SC668SWF
Standard(s) :	47 CFR Part 15, Subpart C 15.247
Date of Receipt:	2024-09-26
Date of Test:	2024-10-02 to 2024-10-25
Date of Issue:	2024-10-28
Test Result:	**Pass***

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

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		*2024-10-28*		*Original*

Authorized for issue by:				
		Edison Li **Edison Li/Project Engineer**		
		Eric Fu **Eric Fu/Reviewer**		

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	**Standard**	**Method**	**Requirement**	**Result**
Antenna Requirement	47 CFR Part 15, 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 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
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Declaration of EUT Family Grouping:

Model No.: DA302xxxxx(x= 0-9, A-Z, - or null, or .,or /), DA302EP

Only the model DA302EP was fully tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model name.

This report is prepared for FCC class II permissive change to install the granted module(FCC ID:YE3600-SC668SWF, Granted on 06/29/2023) into a host product and also change the antenna gains.

Therefore in this report Conducted Emissions at AC Power Line (150kHz-30MHz), Radiated Emissions which fall in the restricted bands and Radiated Spurious Emissions were fully retested on model DA302EP and shown the data in this report.

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3 Contents

Page

1 Cover Page 1

2 Test Summary 3

3 Contents 4

4 General Information 6

4.1 Details of E.U.T. 6
4.2 Description of Support Units 6
4.3 Measurement Uncertainty 7
4.4 Test Location 8
4.5 Test Facility 8
4.6 Deviation from Standards 8
4.7 Abnormalities from Standard Conditions 8

5 Equipment List 9

6 Radio Spectrum Technical Requirement 11

6.1 Antenna Requirement 11
6.1.1 Test Requirement: 11
6.1.2 Conclusion 11

7 Radio Spectrum Matter Test Results 12

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz) 12
7.1.1 E.U.T. Operation 12
7.1.2 Test Mode Description 12
7.1.3 Test Setup Diagram 12
7.1.4 Measurement Procedure and Data 13
7.2 Radiated Emissions which fall in the restricted bands 16
7.2.1 E.U.T. Operation 16
7.2.2 Test Mode Description 16
7.2.3 Test Setup Diagram 17
7.2.4 Measurement Procedure and Data 18
7.3 Radiated Spurious Emissions Below 1GHz 51
7.3.1 E.U.T. Operation 51
7.3.2 Test Mode Description 51
7.3.3 Test Setup Diagram 52
7.3.4 Measurement Procedure and Data 52
7.4 Radiated Spurious Emissions Above 1GHz 55
7.4.1 E.U.T. Operation 55
7.4.2 Test Mode Description 55
7.4.3 Test Setup Diagram 55
7.4.4 Measurement Procedure and Data 56

8 Test Setup Photo 81

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9 EUT Constructional Details (EUT Photos) 81

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4 General Information

4.1 Details of E.U.T.

Power supply:	AC Adapter Model: A18-065N3A Input: AC 100-240V, 1.7A, 50/60Hz Output: DC 19.0V, 3.42A, 65.0W Rechargeable Lithium-Ion Polymer Battery Model: ACC-006-29(3ICP6/36/115) Rated Capacity: 3800mAh Voltage: DC 11.4V Watt-Hour: 43.32Wh Max Charge Voltage: 13.05V
Cable(s):	DC cable:140cm with a ferrite core
Operation Frequency:	802.11b/g/n(20MHz): 2412MHz to 2462MHz 802.11n(40MHz): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(QPSK, BPSK, 16QAM, 64QAM)
Channel Numbers:	802.11b/g/n 20MHz: 11 Channels 802.11n 40MHz: 7 Channels
Antenna Type:	PIFA Antenna
Antenna Gain:	3.7dBi

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

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

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
Radiated Emissions which fall in the restricted bands	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)
Remark: The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

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4.4 Test Location

All tests were performed at:

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

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

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

No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

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

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

Radiated Spurious Emissions Below 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

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

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

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6 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)

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 connector is a IPEX type that comply with Part15.203, the best case gain of the antenna is 3.7dBi.

Antenna location: Refer to internal photo.

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7 Radio Spectrum Matter Test Results

7.1 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:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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 resolution bandwidth) 0.15M to 30MHz		

7.1.1 E.U.T. Operation

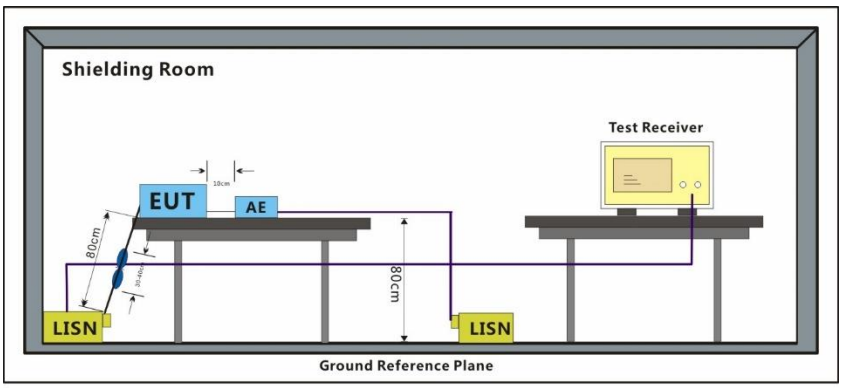
Operating Environment:

Temperature: 22.6 °C Humidity: 48.9 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	14	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

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

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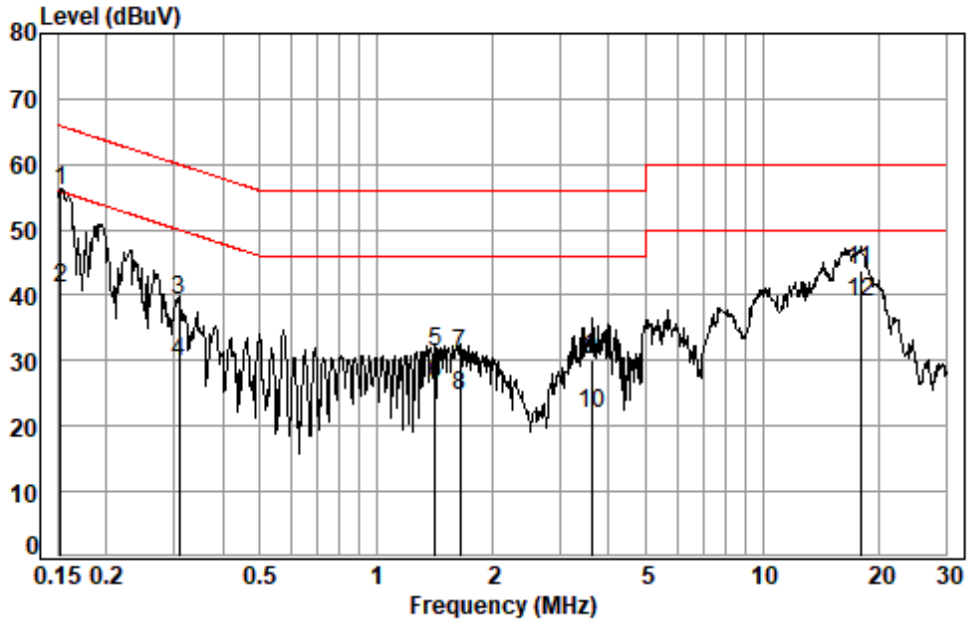
Test Mode: 14; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03651AT
Test mode: 14

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	*	0.1524	0.02	9.88	46.10	56.00	65.87	-9.87	QP
2		0.1524	0.02	9.88	31.31	41.21	55.87	-14.66	Average
3		0.3083	0.03	10.01	29.13	39.17	60.02	-20.85	QP
4		0.3083	0.03	10.01	19.79	29.83	50.02	-20.19	Average
5		1.4182	0.06	10.00	21.20	31.26	56.00	-24.74	QP
6		1.4182	0.06	10.00	16.37	26.43	46.00	-19.57	Average
7		1.6450	0.06	10.00	20.98	31.04	56.00	-24.96	QP
8		1.6450	0.06	10.00	14.71	24.77	46.00	-21.23	Average
9		3.6034	0.08	10.03	19.99	30.10	56.00	-25.90	QP
10		3.6034	0.08	10.03	11.93	22.04	46.00	-23.96	Average
11		17.9441	0.25	10.21	33.42	43.88	60.00	-16.12	QP
12	*	17.9441	0.25	10.21	28.52	38.98	50.00	-11.02	Average

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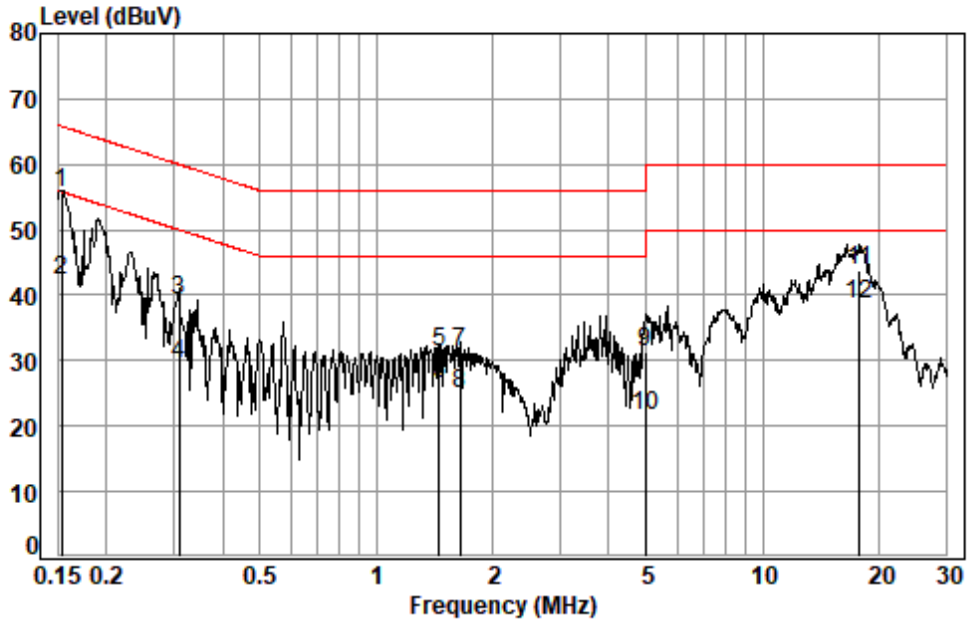
Test Mode: 14; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03651AT
Test mode: 14

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1532	0.02	9.88	45.76	55.66	65.82	-10.16	QP
2	0.1532	0.02	9.88	32.23	42.13	55.82	-13.69	Average
3	0.3083	0.03	9.91	29.19	39.13	60.02	-20.89	QP
4	0.3083	0.03	9.91	19.66	29.60	50.02	-20.42	Average
5	1.4562	0.06	9.96	21.28	31.30	56.00	-24.70	QP
6	1.4562	0.06	9.96	16.54	26.56	46.00	-19.44	Average
7	1.6450	0.06	9.95	21.44	31.45	56.00	-24.55	QP
8	1.6450	0.06	9.95	14.98	24.99	46.00	-21.01	Average
9	4.9782	0.09	10.01	21.36	31.46	56.00	-24.54	QP
10	4.9782	0.09	10.01	11.37	21.47	46.00	-24.53	Average
11	17.8493	0.25	10.26	33.31	43.82	60.00	-16.18	QP
12 *	17.8493	0.25	10.26	28.23	38.74	50.00	-11.26	Average

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7.2 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
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: 22.3 °C Humidity: 58.0 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	13	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	14	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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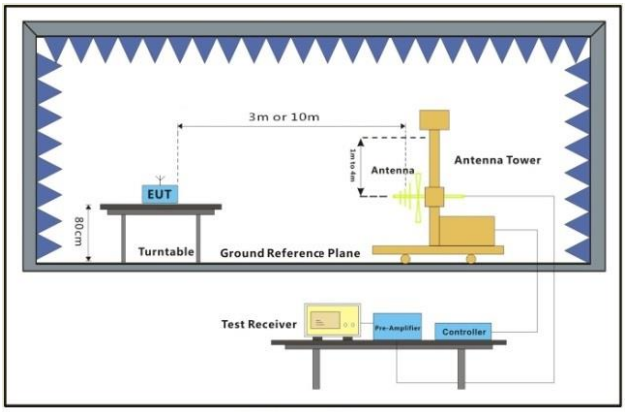
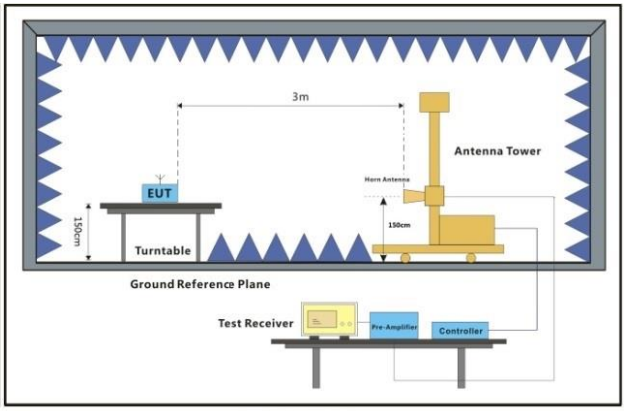
7.2.3 Test Setup Diagram



30MHz-1GHz



Above 1GHz

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7.2.4 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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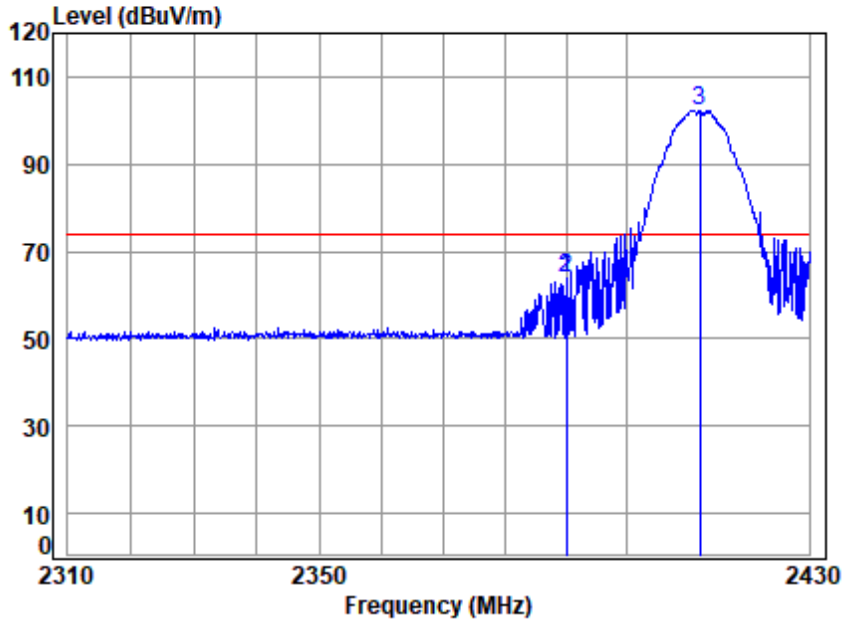
Test Mode: 14; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	32.78	51.93	64.06	74.00	-9.94	peak
2	2390.000	15.81	29.10	32.78	51.93	64.06	74.00	-9.94	peak
3 p	2412.000	15.82	29.05	32.77	90.22	102.32	74.00	28.32	peak

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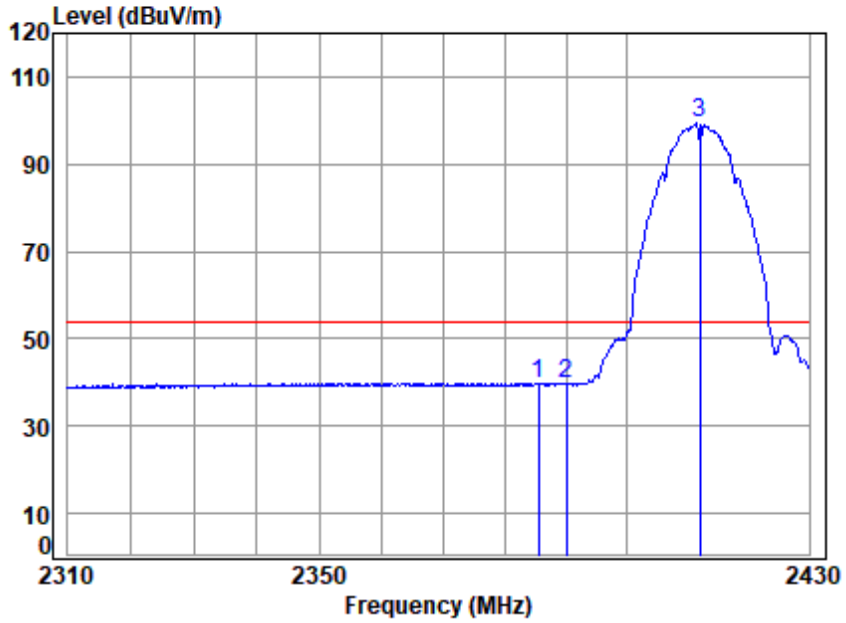
Member of the SGS Group (SGS SA)

Test Mode: 14; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2385.494	15.81	29.10	32.78	27.73	39.86	54.00	-14.14	Average
2	2390.000	15.81	29.10	32.78	27.55	39.68	54.00	-14.32	Average
3 q	2412.000	15.82	29.05	32.77	87.15	99.25	54.00	45.25	Average

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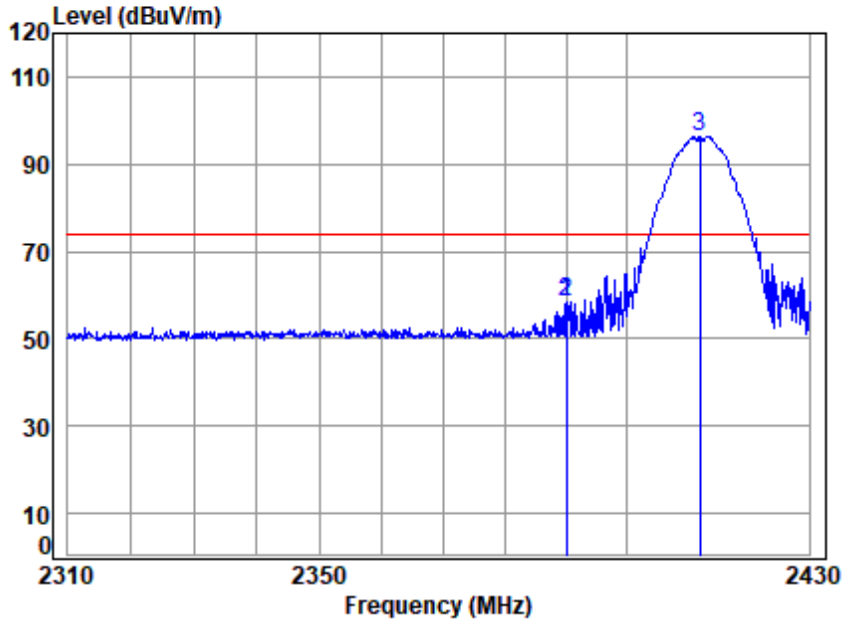
Test Mode: 14; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	32.78	46.41	58.54	74.00	-15.46	Peak
2	2390.000	15.81	29.10	32.78	46.41	58.54	74.00	-15.46	Peak
3 p	2412.000	15.82	29.05	32.77	84.15	96.25	74.00	22.25	Peak

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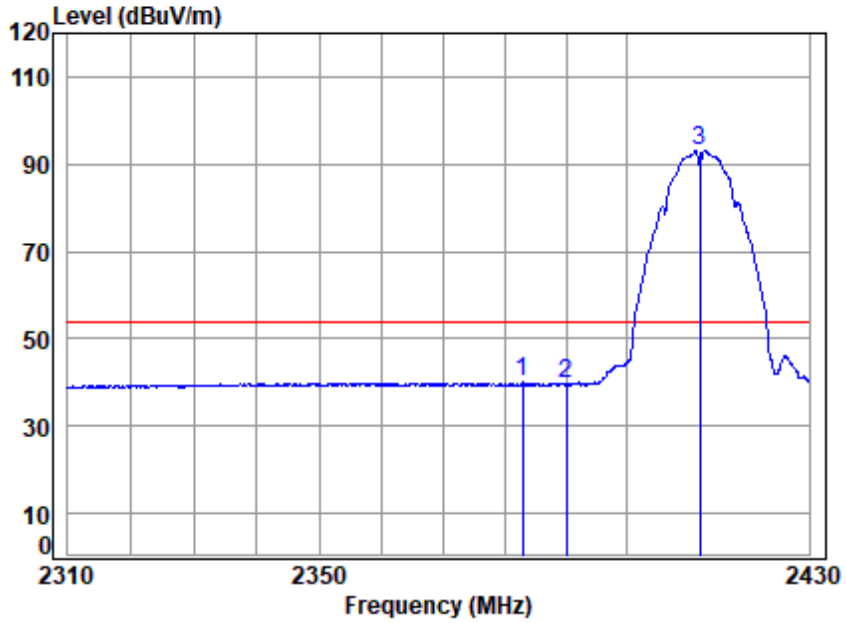
Test Mode: 14; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2382.958	15.81	29.10	32.78	27.99	40.12	54.00	-13.88	Average
2	2390.000	15.81	29.10	32.78	27.68	39.81	54.00	-14.19	Average
3 q	2412.000	15.82	29.05	32.77	81.04	93.14	54.00	39.14	Average

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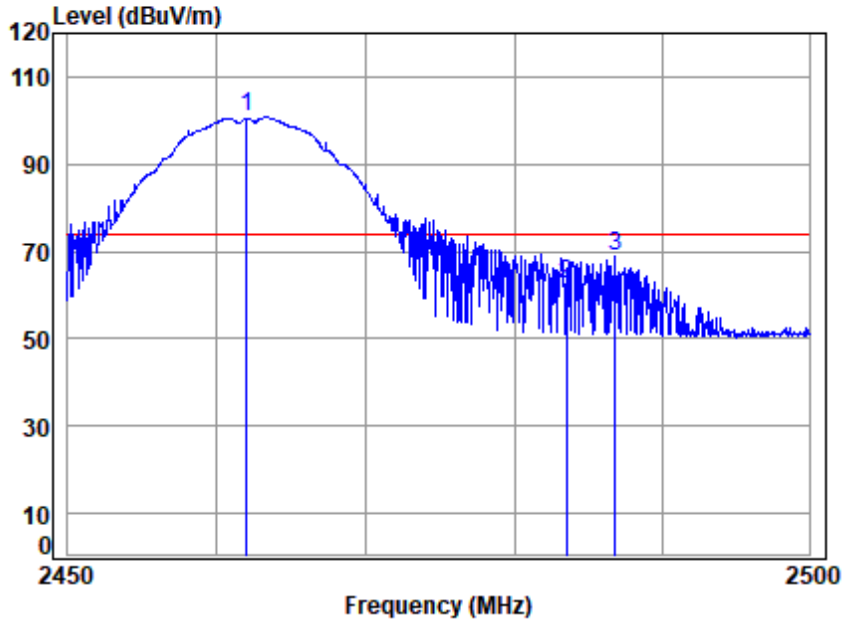
Test Mode: 14; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	15.85	28.90	32.74	88.95	100.96	74.00	26.96	peak
2	2483.500	15.86	28.90	32.73	50.68	62.71	74.00	-11.29	peak
3	2486.802	15.86	28.90	32.73	56.66	68.69	74.00	-5.31	peak

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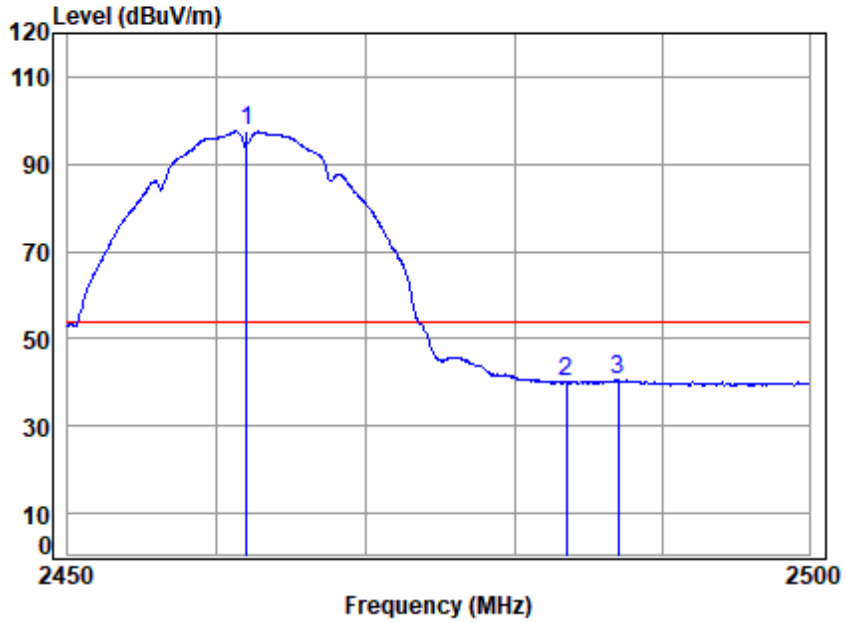
Test Mode: 14; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	15.85	28.90	32.74	85.45	97.46	54.00	43.46	Average
2	2483.500	15.86	28.90	32.73	28.04	40.07	54.00	-13.93	Average
3	2487.003	15.86	28.90	32.73	28.50	40.53	54.00	-13.47	Average

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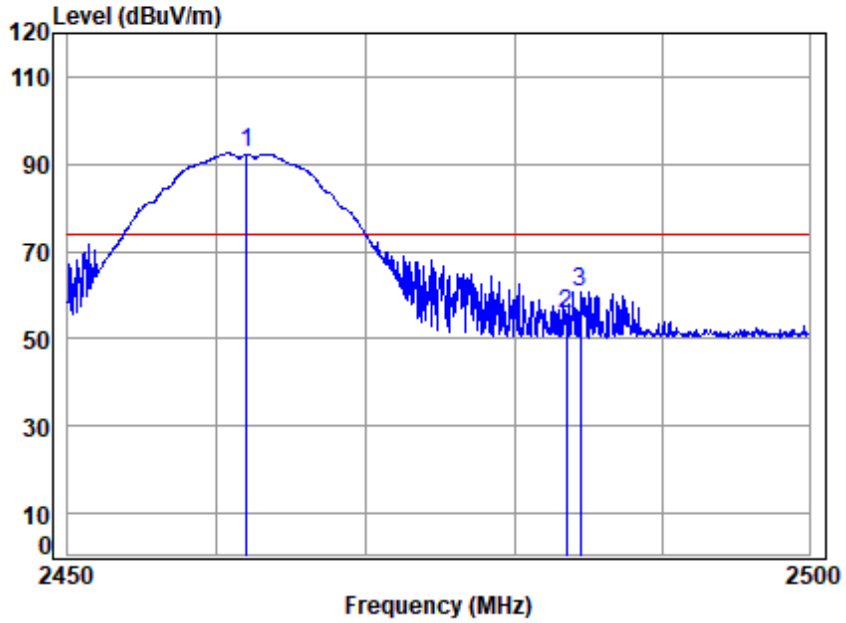
Test Mode: 14; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	15.85	28.90	32.74	80.42	92.43	74.00	18.43	Peak
2	2483.500	15.86	28.90	32.73	43.54	55.57	74.00	-18.43	Peak
3	2484.442	15.86	28.90	32.73	48.86	60.89	74.00	-13.11	Peak

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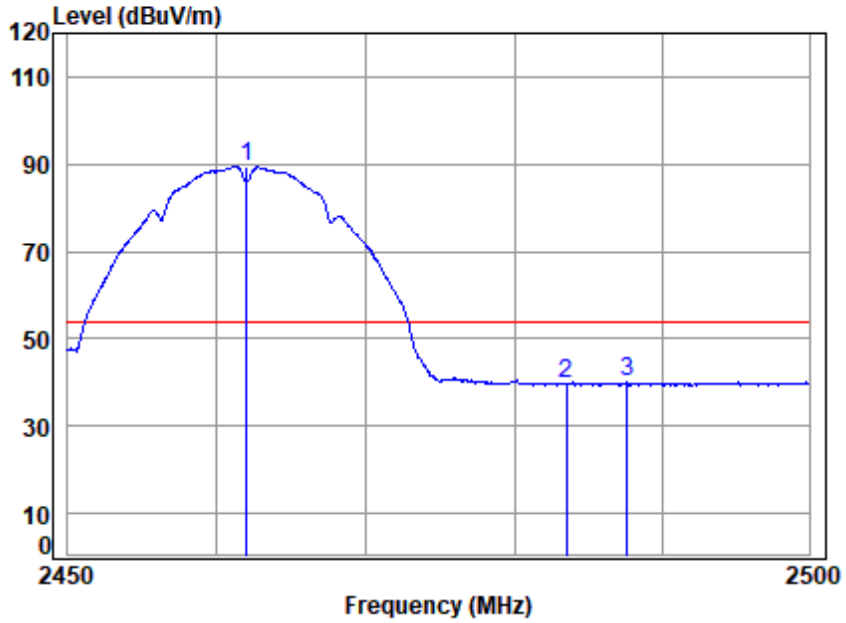

Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	15.85	28.90	32.74	77.64	89.65	54.00	35.65	Average
2	2483.500	15.86	28.90	32.73	27.53	39.56	54.00	-14.44	Average
3	2487.606	15.86	28.90	32.73	27.99	40.02	54.00	-13.98	Average

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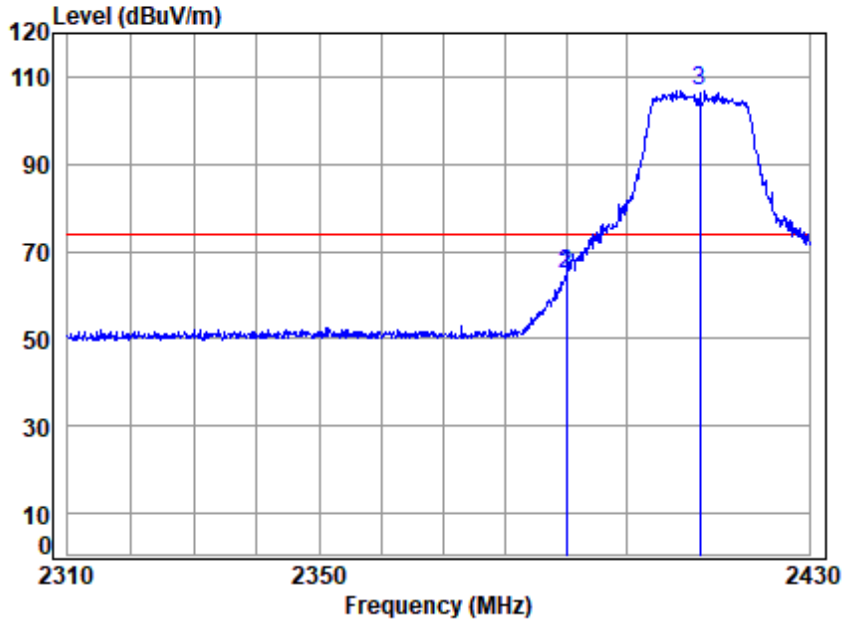
Test Mode: 14; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2412 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	32.78	52.78	64.91	74.00	-9.09	peak
2	2390.000	15.81	29.10	32.78	52.78	64.91	74.00	-9.09	peak
3 p	2412.000	15.82	29.05	32.77	94.67	106.77	74.00	32.77	peak

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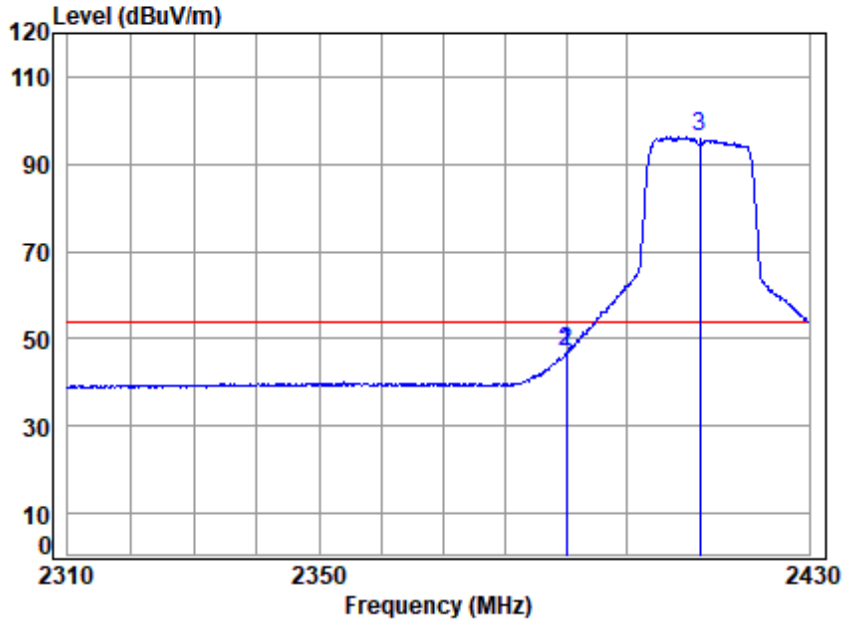

Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2412 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	32.78	34.68	46.81	54.00	-7.19	Average
2	2390.000	15.81	29.10	32.78	34.68	46.81	54.00	-7.19	Average
3 q	2412.000	15.82	29.05	32.77	84.13	96.23	54.00	42.23	Average

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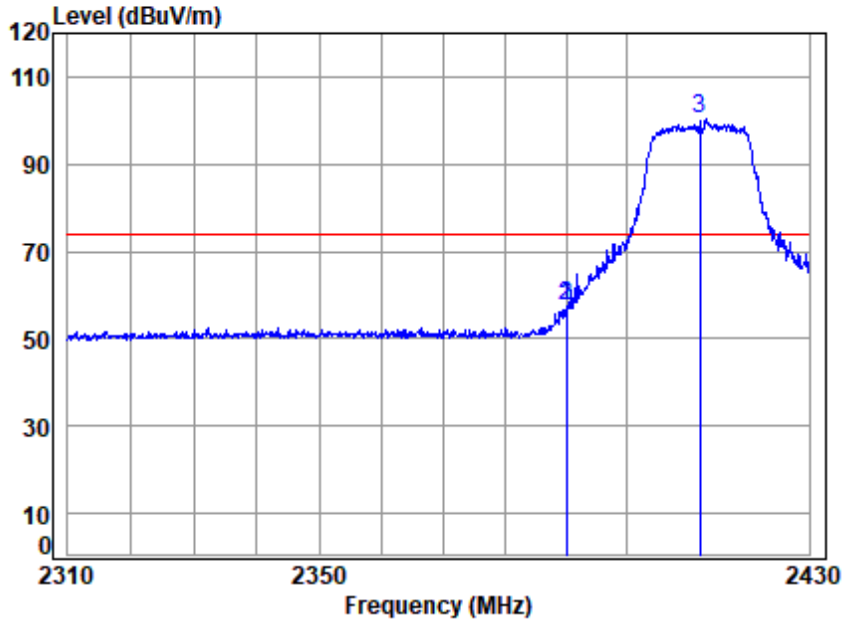
Test Mode: 14; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2412 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	32.78	45.50	57.63	74.00	-16.37	Peak
2	2390.000	15.81	29.10	32.78	45.50	57.63	74.00	-16.37	Peak
3 p	2412.000	15.82	29.05	32.77	88.24	100.34	74.00	26.34	Peak

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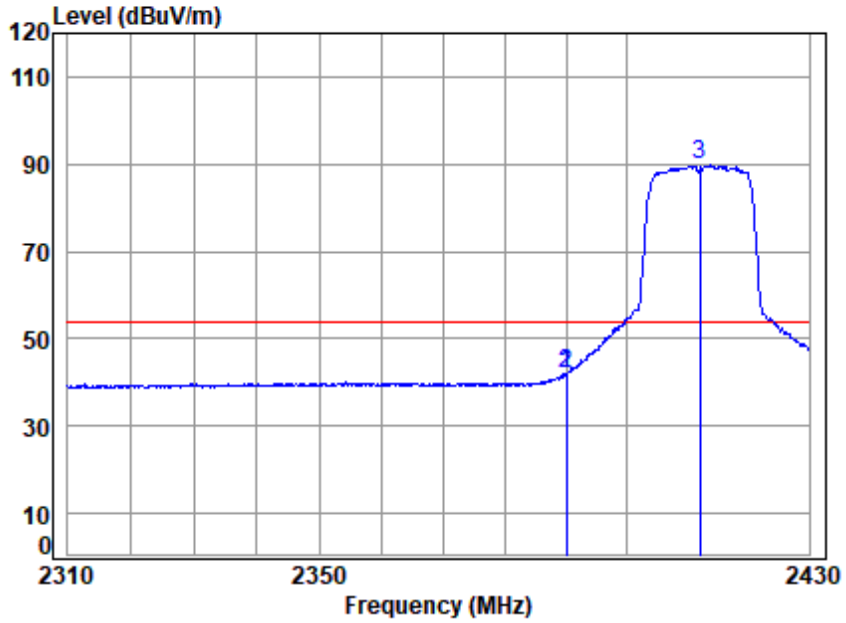
Test Mode: 14; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2412 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	32.78	29.79	41.92	54.00	-12.08	Average
2	2390.000	15.81	29.10	32.78	29.79	41.92	54.00	-12.08	Average
3 q	2412.000	15.82	29.05	32.77	77.74	89.84	54.00	35.84	Average

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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
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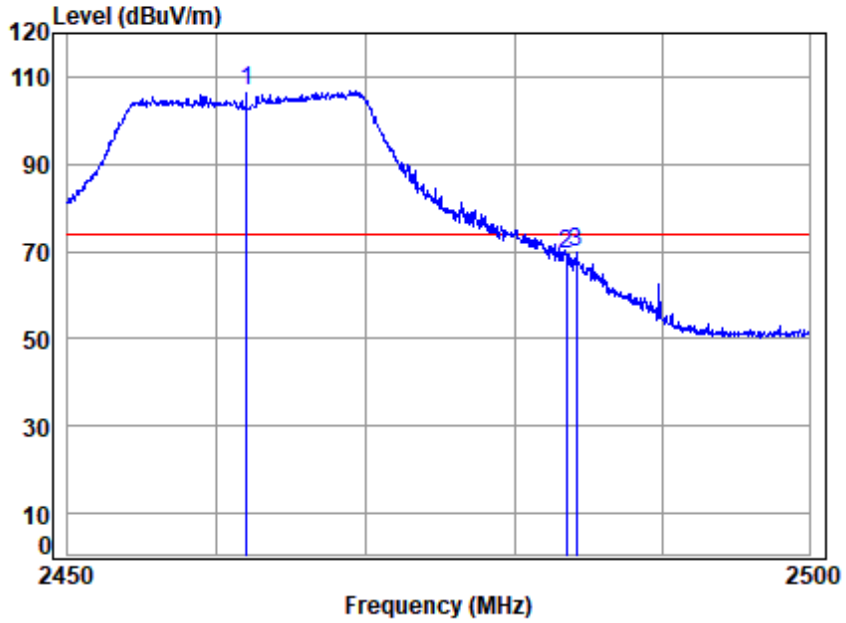
Test Mode: 14; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2462 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	15.85	28.90	32.74	94.69	106.70	74.00	32.70	peak
2	2483.500	15.86	28.90	32.73	57.48	69.51	74.00	-4.49	peak
3	2484.191	15.86	28.90	32.73	57.88	69.91	74.00	-4.09	peak

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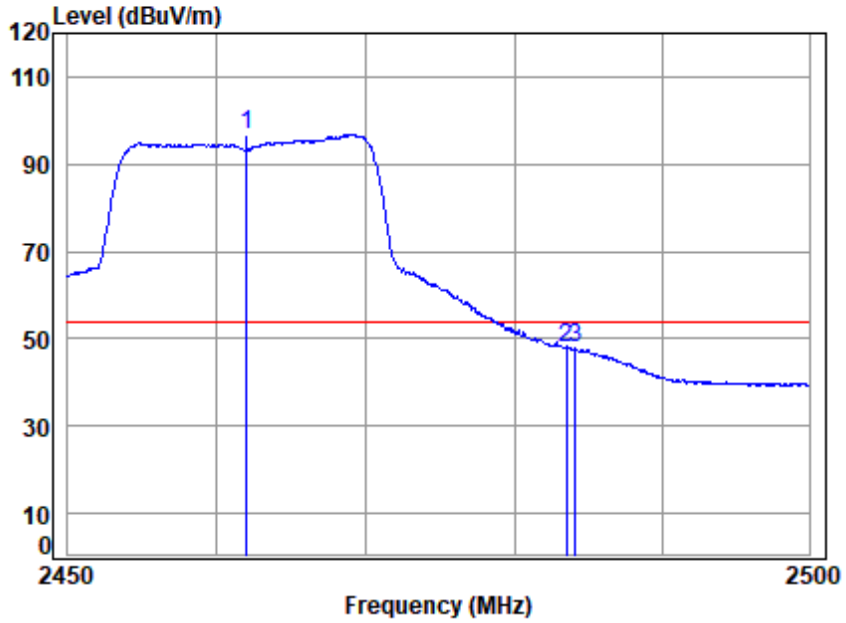
Test Mode: 14; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2462 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	15.85	28.90	32.74	84.69	96.70	54.00	42.70	Average
2	2483.500	15.86	28.90	32.73	36.02	48.05	54.00	-5.95	Average
3	2484.141	15.86	28.90	32.73	35.82	47.85	54.00	-6.15	Average

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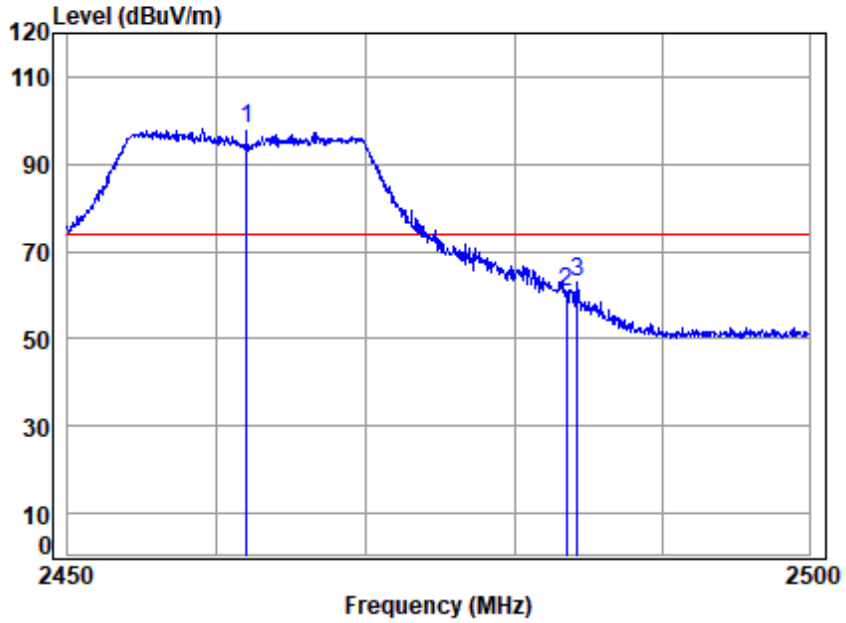
Test Mode: 14; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2462 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	15.85	28.90	32.74	85.90	97.91	74.00	23.91	Peak
2	2483.500	15.86	28.90	32.73	48.48	60.51	74.00	-13.49	Peak
3	2484.292	15.86	28.90	32.73	51.06	63.09	74.00	-10.91	Peak

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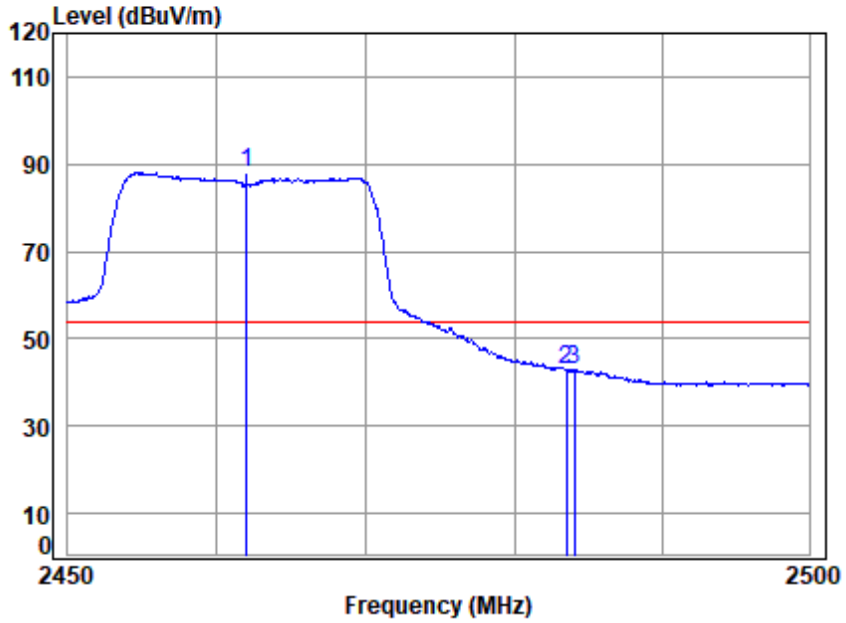
Test Mode: 14; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2462 Band edge
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	15.85	28.90	32.74	76.19	88.20	54.00	34.20	Average
2	2483.500	15.86	28.90	32.73	30.79	42.82	54.00	-11.18	Average
3	2484.041	15.86	28.90	32.73	30.85	42.88	54.00	-11.12	Average

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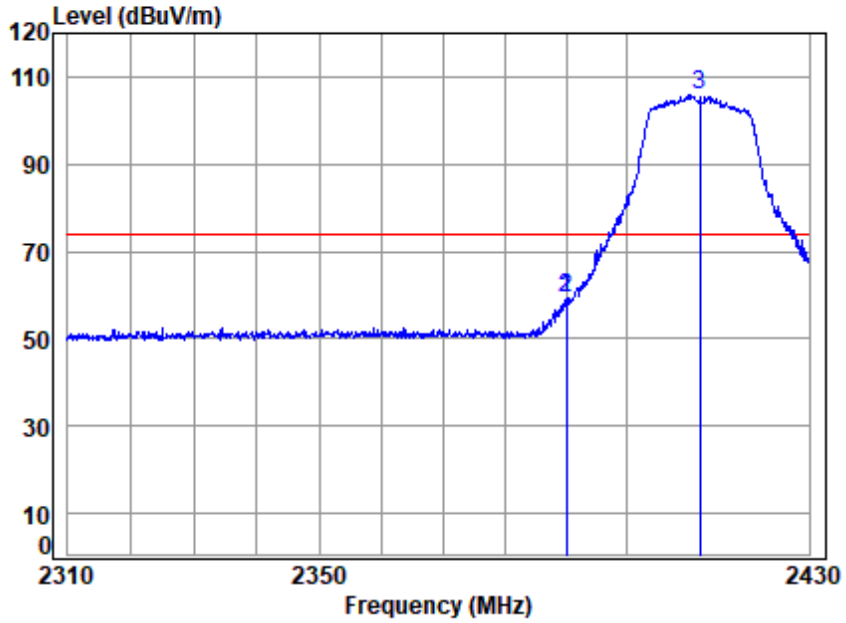
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	32.78	46.98	59.11	74.00	-14.89	peak
2	2390.000	15.81	29.10	32.78	46.98	59.11	74.00	-14.89	peak
3 p	2412.000	15.82	29.05	32.77	93.63	105.73	74.00	31.73	peak

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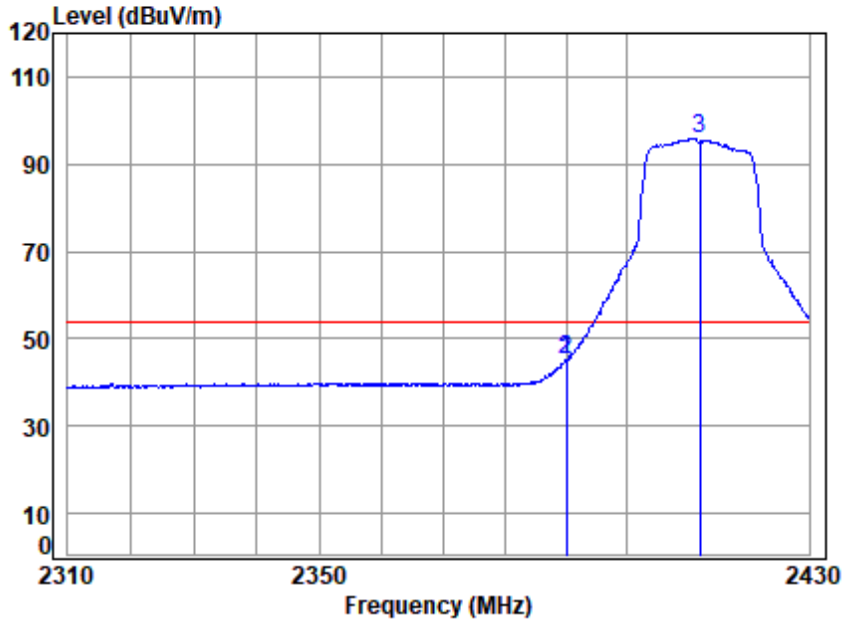
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	15.81	29.10	32.78	33.23	45.36	54.00	-8.64	Average
2	2390.000	15.81	29.10	32.78	33.23	45.36	54.00	-8.64	Average
3 q	2412.000	15.82	29.05	32.77	83.83	95.93	54.00	41.93	Average

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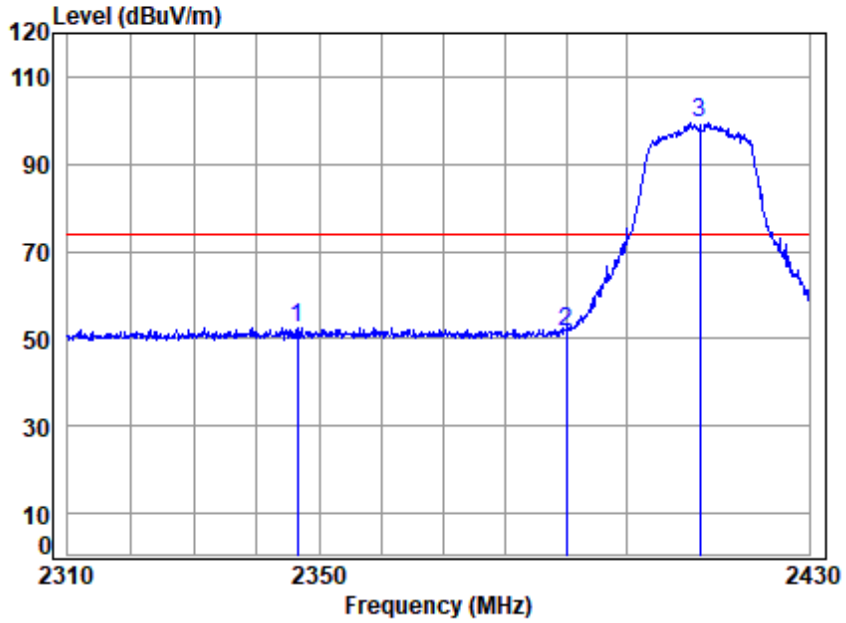
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2346.552	15.78	29.05	32.80	40.56	52.59	74.00	-21.41	Peak
2	2390.000	15.81	29.10	32.78	39.27	51.40	74.00	-22.60	Peak
3 p	2412.000	15.82	29.05	32.77	87.55	99.65	74.00	25.65	Peak

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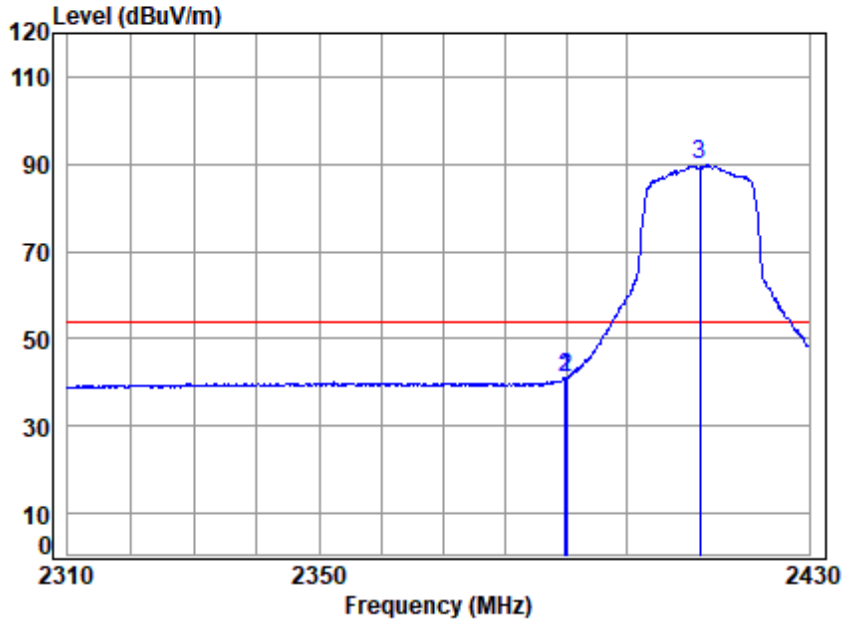
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	15.81	29.10	32.78	28.86	40.99	54.00	-13.01	Average
2	2390.000	15.81	29.10	32.78	28.73	40.86	54.00	-13.14	Average
3 q	2412.000	15.82	29.05	32.77	77.85	89.95	54.00	35.95	Average

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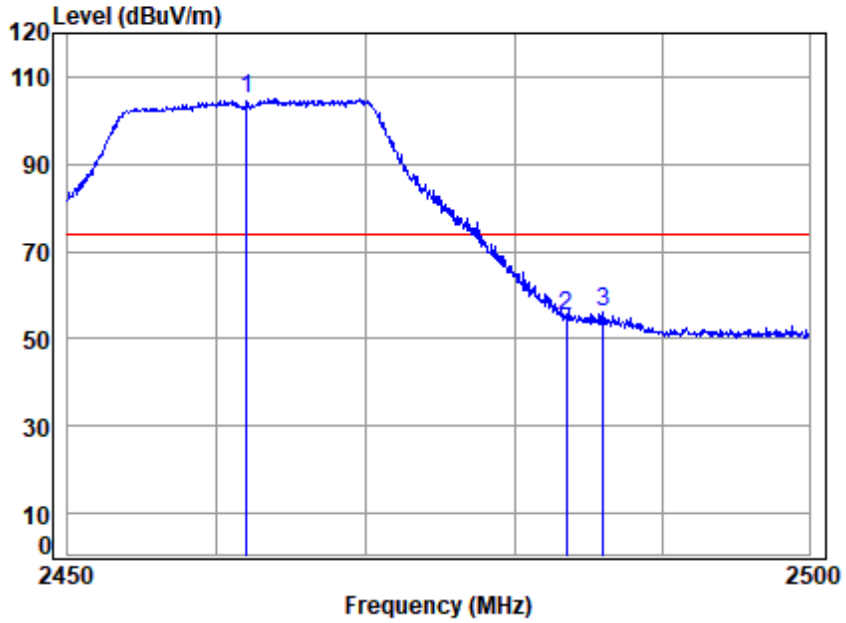
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	15.85	28.90	32.74	92.84	104.85	74.00	30.85	peak
2	2483.500	15.86	28.90	32.73	43.29	55.32	74.00	-18.68	peak
3	2485.999	15.86	28.90	32.73	44.07	56.10	74.00	-17.90	peak

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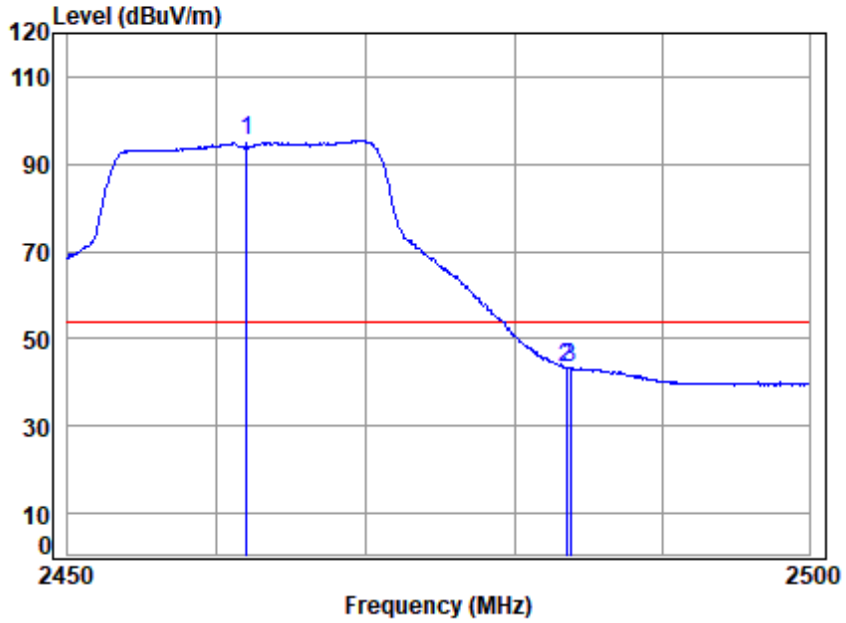
Member of the SGS Group (SGS SA)

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	15.85	28.90	32.74	83.45	95.46	54.00	41.46	Average
2	2483.500	15.86	28.90	32.73	31.39	43.42	54.00	-10.58	Average
3	2483.790	15.86	28.90	32.73	31.32	43.35	54.00	-10.65	Average

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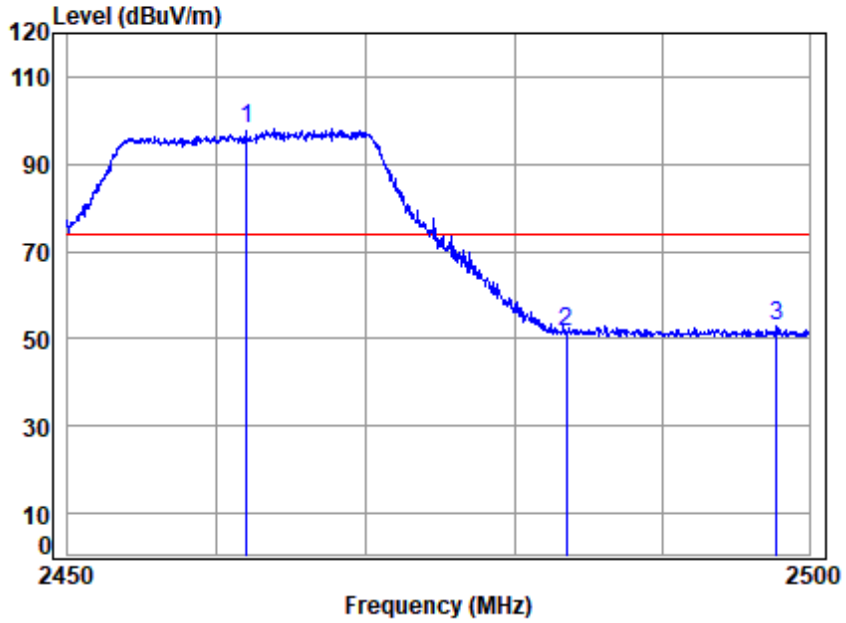
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	15.85	28.90	32.74	85.97	97.98	74.00	23.98	Peak
2	2483.500	15.86	28.90	32.73	39.33	51.36	74.00	-22.64	Peak
3	2497.779	15.87	28.90	32.73	41.00	53.04	74.00	-20.96	Peak

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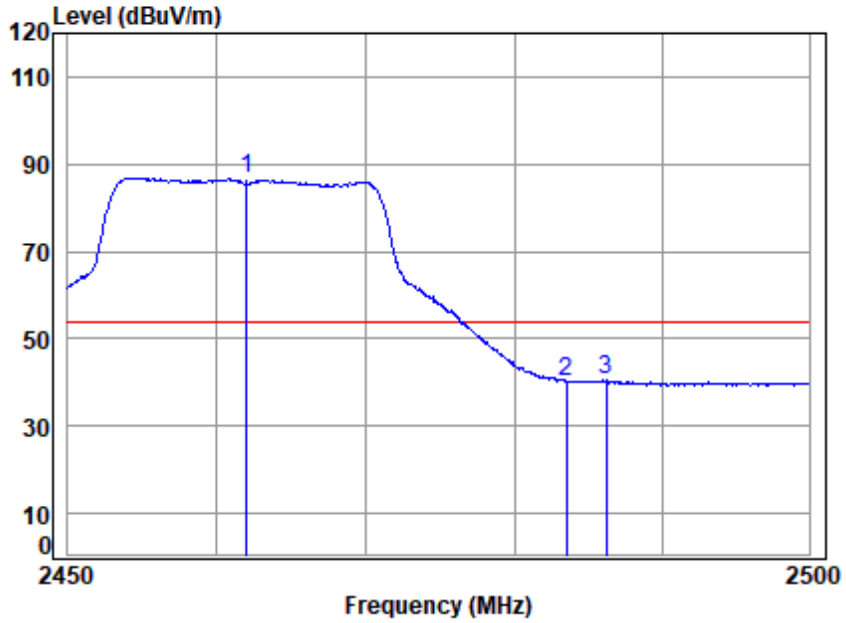
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	15.85	28.90	32.74	74.82	86.83	54.00	32.83	Average
2	2483.500	15.86	28.90	32.73	28.11	40.14	54.00	-13.86	Average
3	2486.250	15.86	28.90	32.73	28.40	40.43	54.00	-13.57	Average

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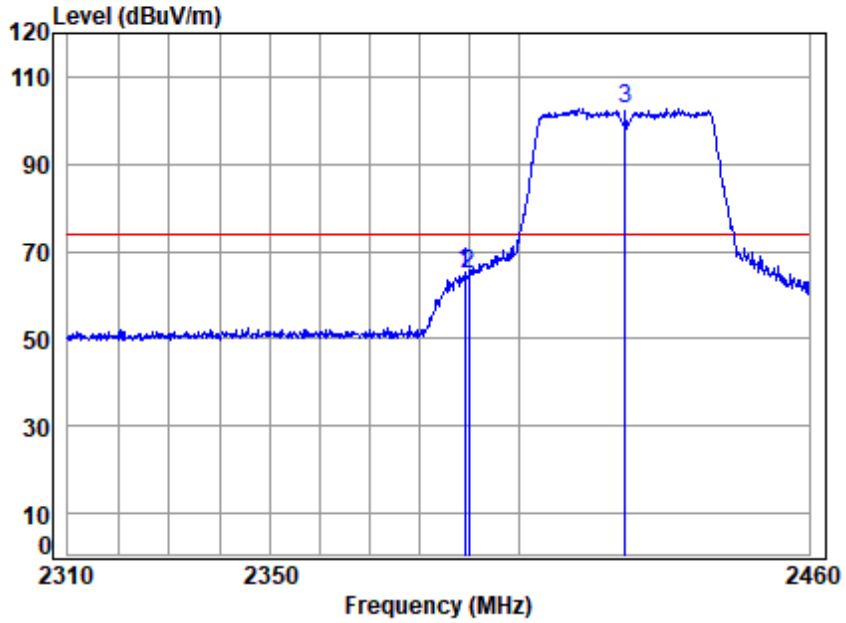
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.075	15.81	29.10	32.78	53.33	65.46	74.00	-8.54	peak
2	2390.000	15.81	29.10	32.78	52.77	64.90	74.00	-9.10	peak
3 p	2422.000	15.83	29.01	32.76	90.73	102.81	74.00	28.81	peak

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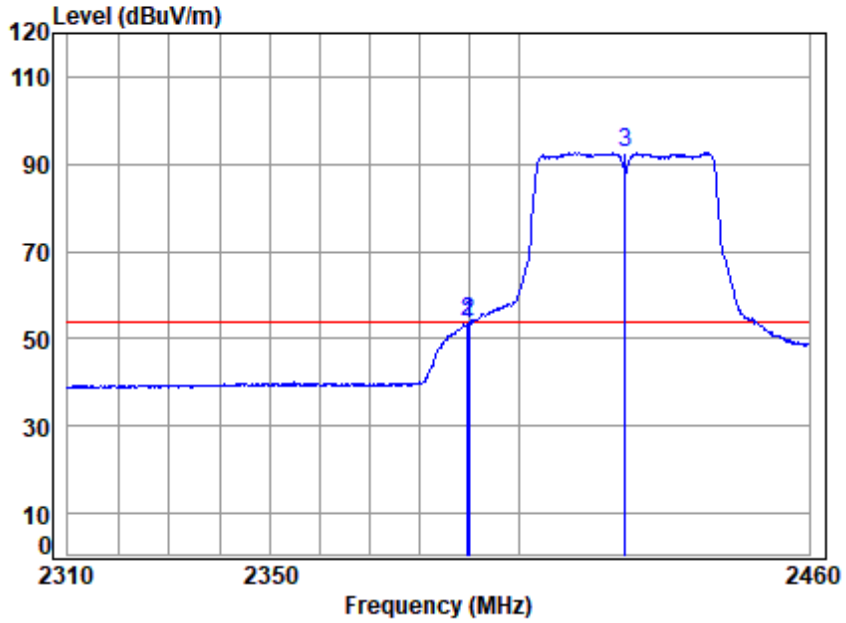
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	15.81	29.10	32.78	41.20	53.33	54.00	-0.67	Average
2	2390.000	15.81	29.10	32.78	41.53	53.66	54.00	-0.34	Average
3 q	2422.000	15.83	29.01	32.76	80.74	92.82	54.00	38.82	Average

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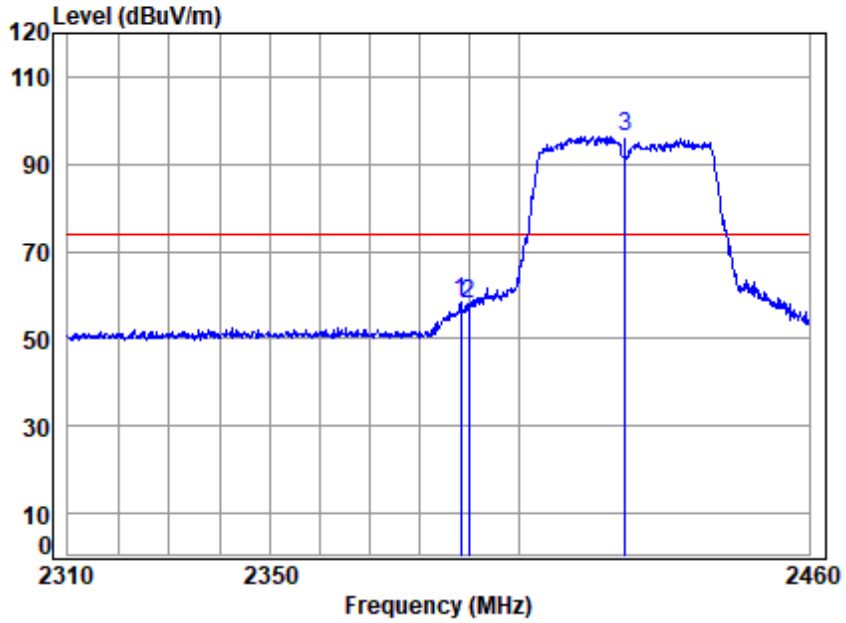
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.324	15.81	29.10	32.78	46.06	58.19	74.00	-15.81	Peak
2	2390.000	15.81	29.10	32.78	45.94	58.07	74.00	-15.93	Peak
3 p	2422.000	15.83	29.01	32.76	84.35	96.43	74.00	22.43	Peak

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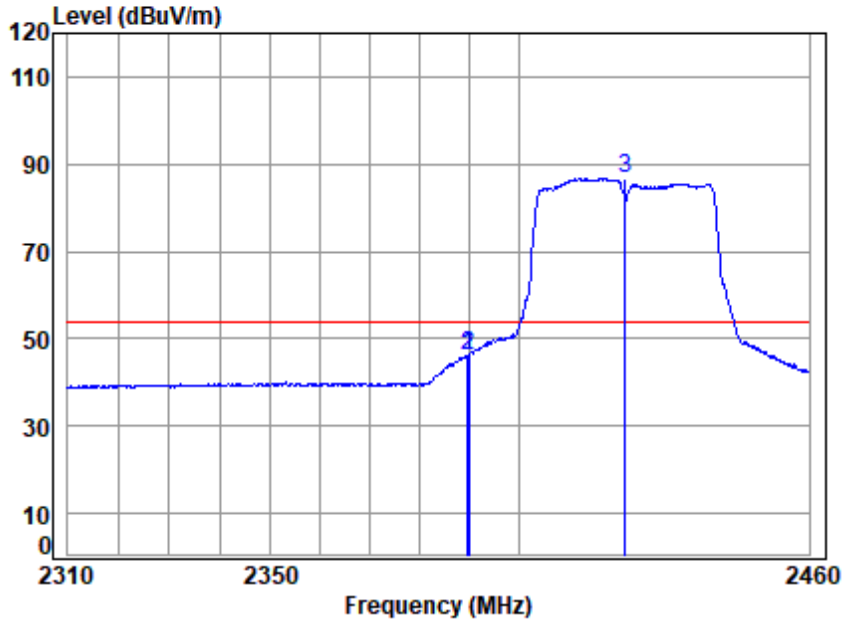
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	15.81	29.10	32.78	34.03	46.16	54.00	-7.84	Average
2	2390.000	15.81	29.10	32.78	34.04	46.17	54.00	-7.83	Average
3 q	2422.000	15.83	29.01	32.76	74.70	86.78	54.00	32.78	Average

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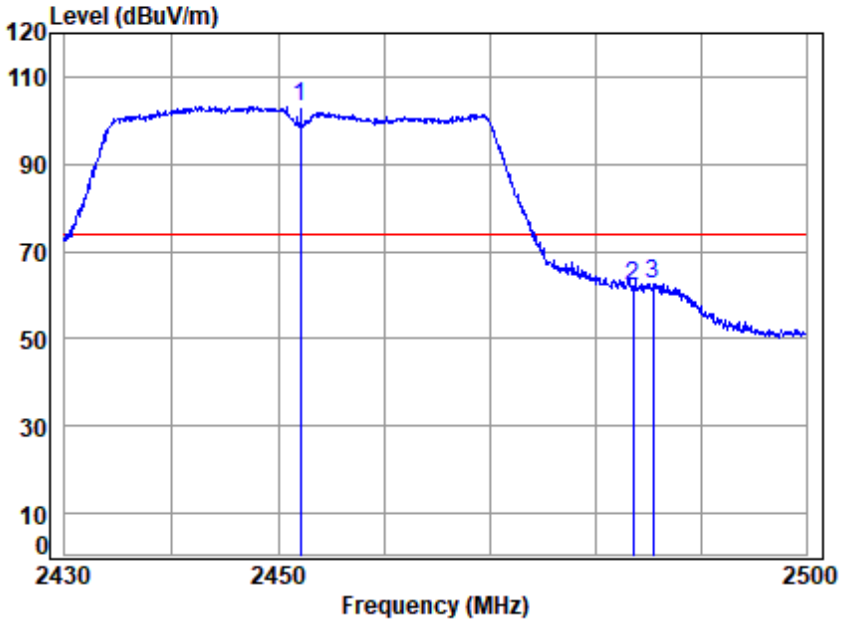
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2452.000	15.84	28.90	32.75	91.19	103.18	74.00	29.18	peak
2	2483.500	15.86	28.90	32.73	49.98	62.01	74.00	-11.99	peak
3	2485.346	15.86	28.90	32.73	50.50	62.53	74.00	-11.47	peak

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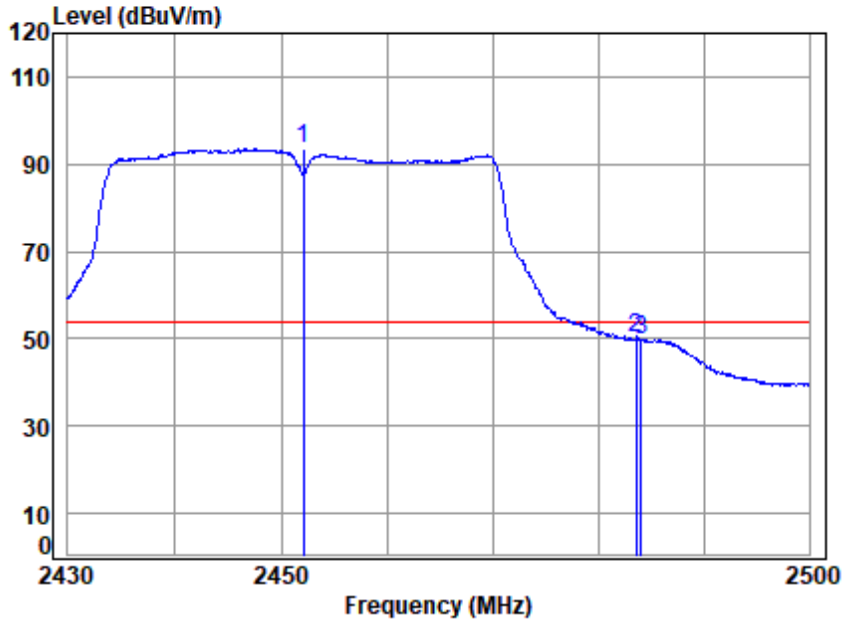
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2452.000	15.84	28.90	32.75	81.66	93.65	54.00	39.65	Average
2	2483.500	15.86	28.90	32.73	38.30	50.33	54.00	-3.67	Average
3	2483.935	15.86	28.90	32.73	37.85	49.88	54.00	-4.12	Average

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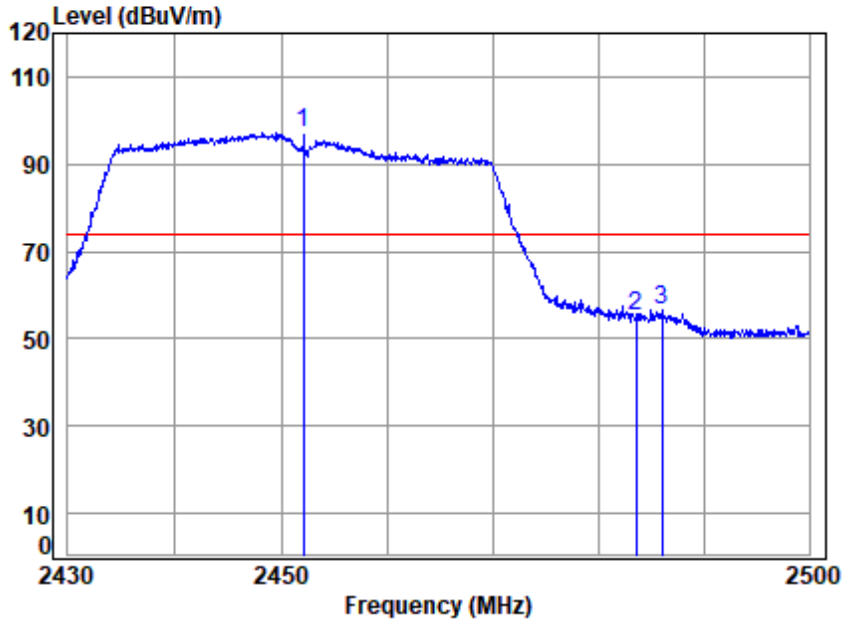
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2452.000	15.84	28.90	32.75	85.12	97.11	74.00	23.11	Peak
2	2483.500	15.86	28.90	32.73	42.99	55.02	74.00	-18.98	Peak
3	2485.911	15.86	28.90	32.73	44.51	56.54	74.00	-17.46	Peak

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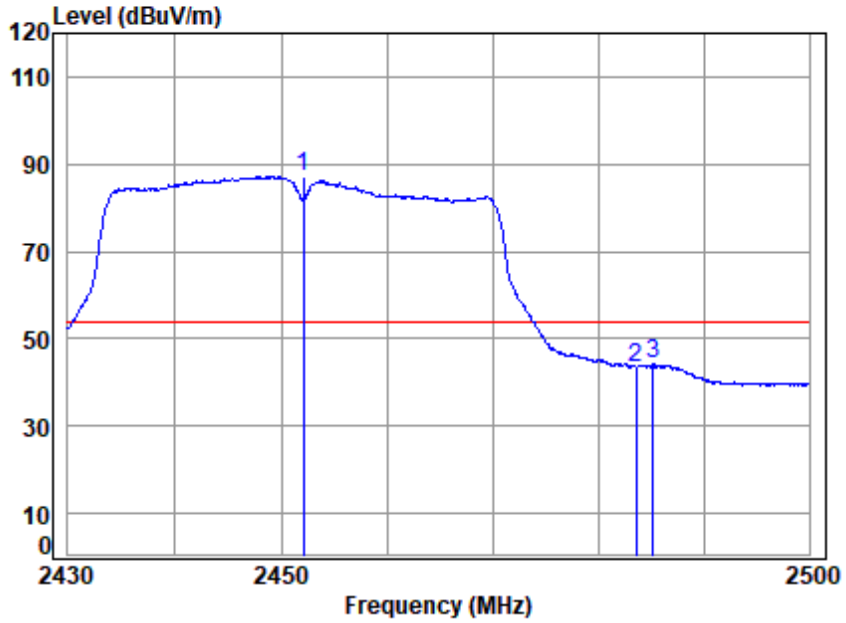
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2452.000	15.84	28.90	32.75	75.30	87.29	54.00	33.29	Average
2	2483.500	15.86	28.90	32.73	31.52	43.55	54.00	-10.45	Average
3	2485.135	15.86	28.90	32.73	32.20	44.23	54.00	-9.77	Average

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7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5
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
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	13	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	14	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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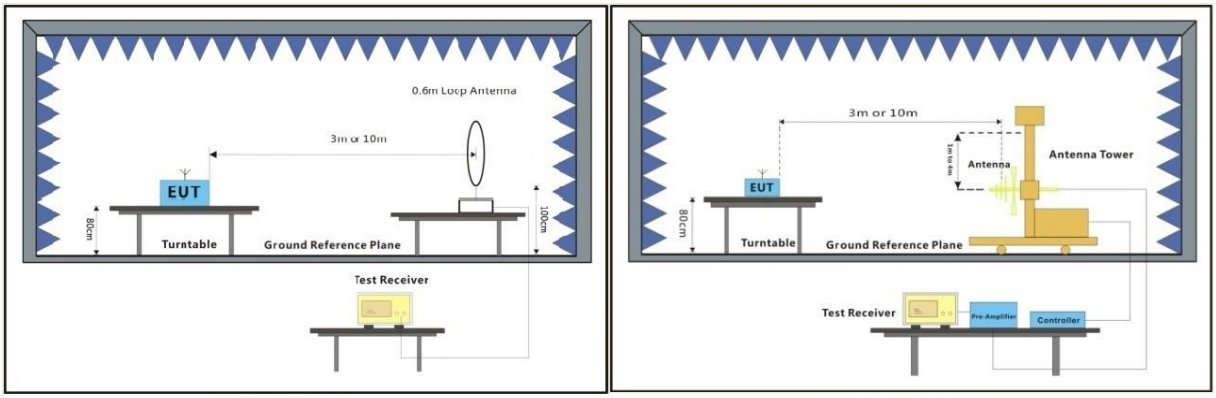
7.3.3 Test Setup Diagram



Below 30MHz　　30MHz-1GHz

7.3.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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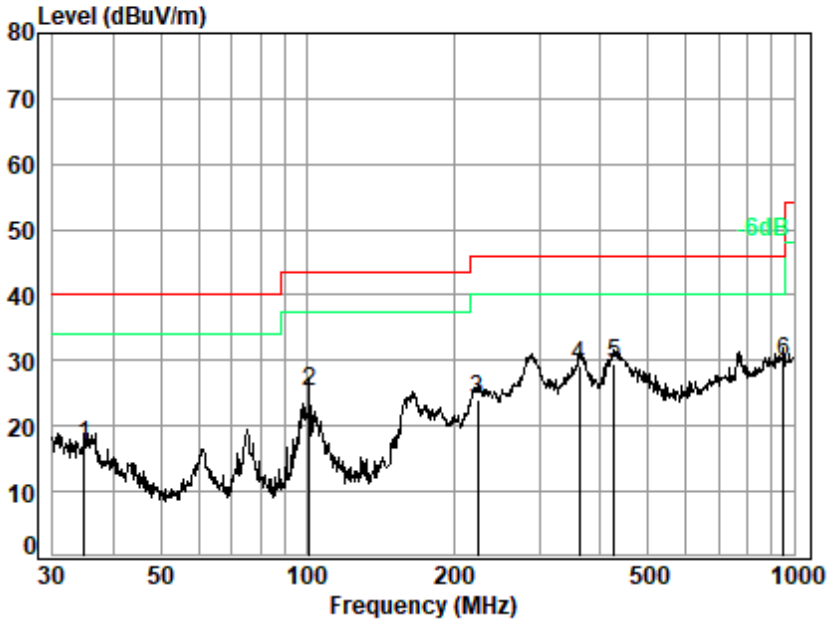
Test Mode: 14; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03651AT
Test Mode: 14

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	34.88	18.94	0.69	27.78	25.13	16.98	40.00	-23.02	QP
2	100.93	12.31	1.20	27.59	39.37	25.29	43.50	-18.21	QP
3	223.73	15.57	1.83	27.07	33.83	24.16	46.00	-21.84	QP
4	361.71	20.25	2.40	27.00	33.63	29.28	46.00	-16.72	QP
5	426.52	20.78	2.64	27.26	33.37	29.53	46.00	-16.47	QP
6 q	952.09	28.14	4.23	26.39	23.95	29.93	46.00	-16.07	QP

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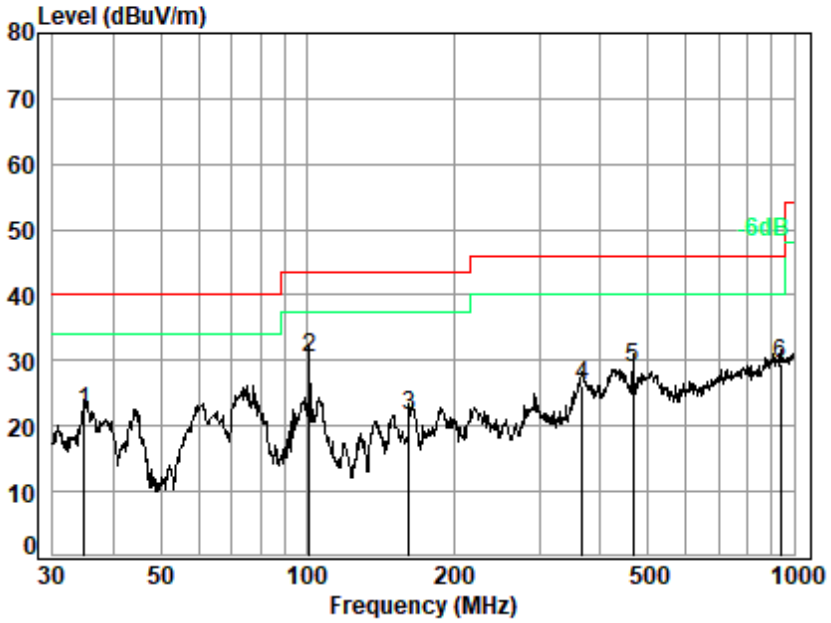
Test Mode: 14; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03651AT
Test Mode: 14

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	34.76	19.00	0.69	27.78	30.25	22.16	40.00	-17.84	QP
2 q	100.93	12.31	1.20	27.59	44.38	30.30	43.50	-13.20	QP
3	162.04	13.44	1.53	27.33	33.86	21.50	43.50	-22.00	QP
4	366.82	20.34	2.42	27.02	30.40	26.14	46.00	-19.86	QP
5	467.24	21.98	2.78	27.43	31.60	28.93	46.00	-17.07	QP
6	938.83	28.13	4.19	26.49	23.71	29.54	46.00	-16.46	QP

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7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.6
Measurement Distance: 3m
Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

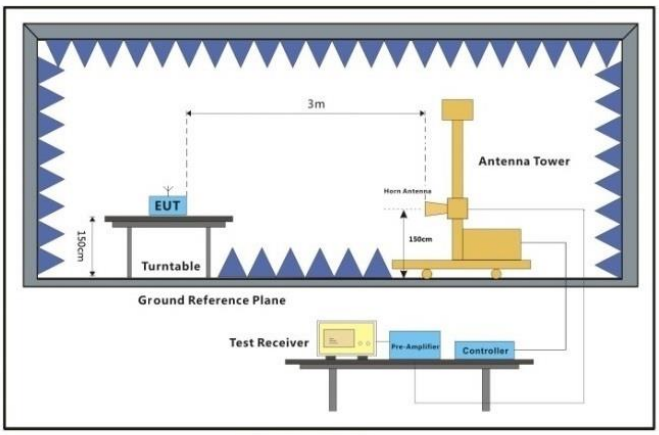
7.4.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 58.3 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	13	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	14	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



Above 1GHz

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7.4.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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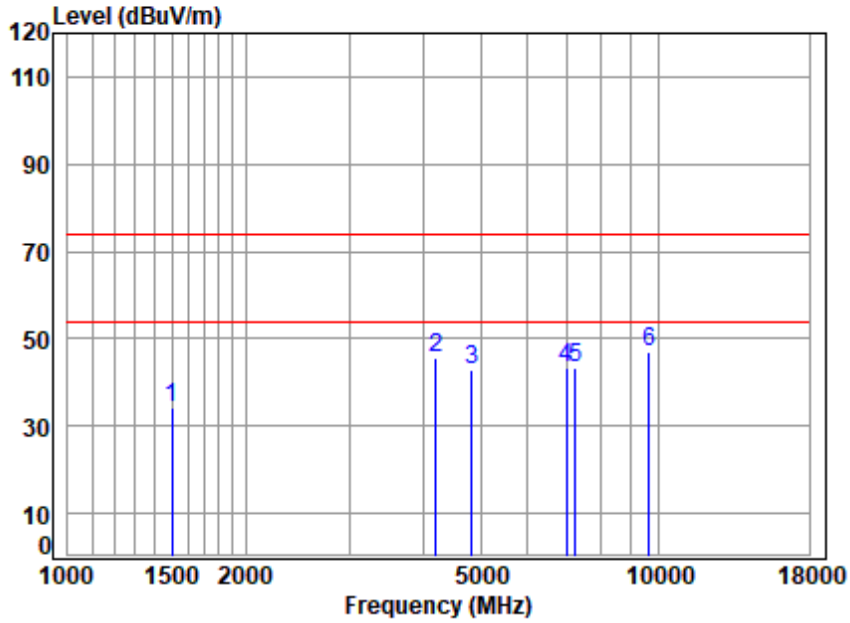
Test Mode: 14; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2412 TX RSE
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	4.58	26.81	61.66	64.65	34.38	74.00	-39.62	peak
2	4206.011	8.26	33.80	61.37	65.01	45.70	74.00	-28.30	peak
3	4824.000	8.01	34.40	61.90	62.20	42.71	74.00	-31.29	peak
4	6995.172	9.53	35.71	62.16	60.38	43.46	74.00	-30.54	peak
5	7236.000	9.29	35.70	62.03	60.47	43.43	74.00	-30.57	peak
6 p	9648.000	11.38	37.50	62.16	60.22	46.94	74.00	-27.06	peak

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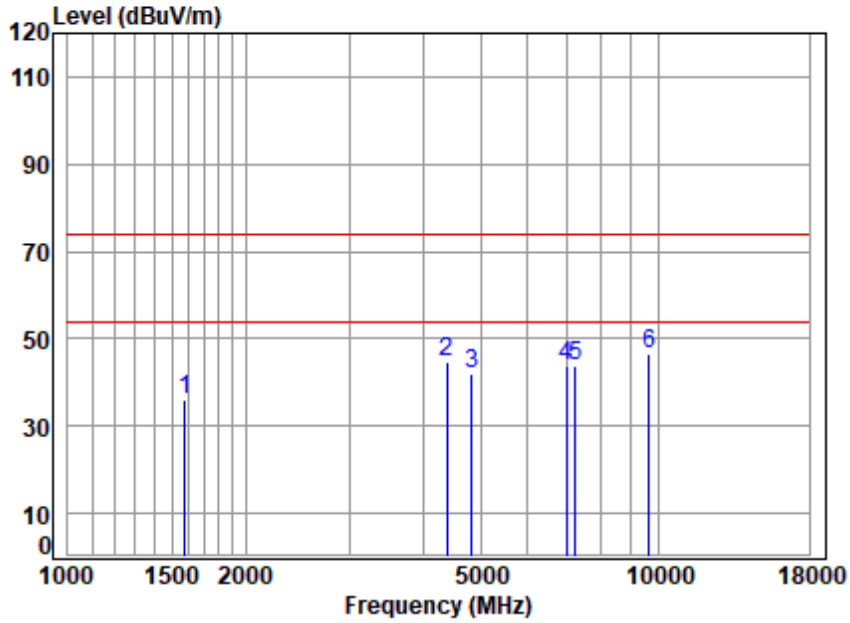
Test Mode: 14; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2412 TX RSE
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1578.822	4.74	26.88	61.68	66.10	36.04	74.00	-37.96	peak
2	4379.699	8.02	34.64	61.52	63.55	44.69	74.00	-29.31	peak
3	4824.000	8.01	34.40	61.90	61.25	41.76	74.00	-32.24	peak
4	6995.172	9.53	35.71	62.16	60.71	43.79	74.00	-30.21	peak
5	7236.000	9.29	35.70	62.03	60.79	43.75	74.00	-30.25	peak
6 p	9648.000	11.38	37.50	62.16	59.64	46.36	74.00	-27.64	peak

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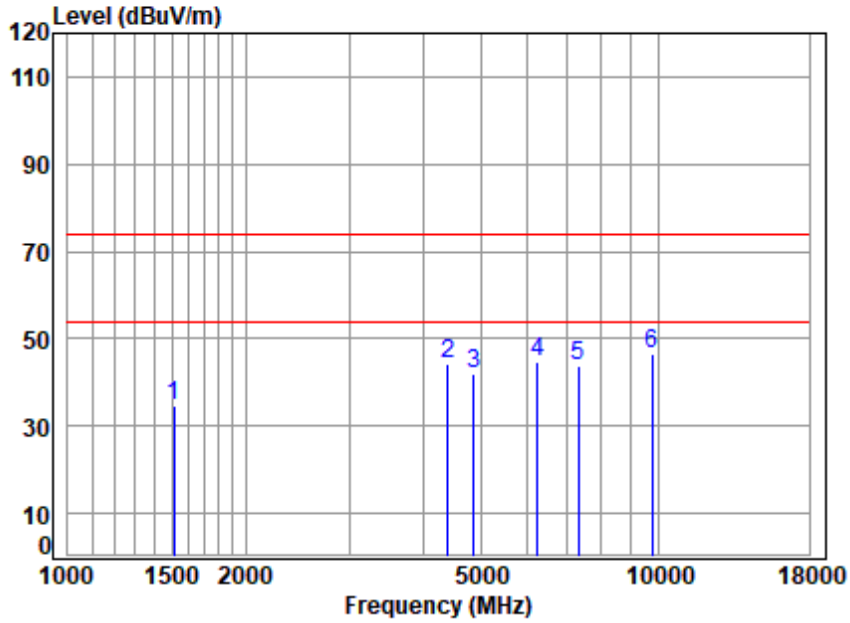
Test Mode: 14; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2437 TX RSE
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1511.833	4.60	26.85	61.66	64.90	34.69	74.00	-39.31	peak
2	4405.090	7.99	34.74	61.55	62.99	44.17	74.00	-29.83	peak
3	4874.000	8.03	34.60	61.94	61.36	42.05	74.00	-31.95	peak
4	6249.464	9.33	34.90	62.59	63.24	44.88	74.00	-29.12	peak
5	7311.000	9.21	35.70	61.99	61.00	43.92	74.00	-30.08	peak
6 p	9748.000	11.32	37.40	62.19	59.88	46.41	74.00	-27.59	peak

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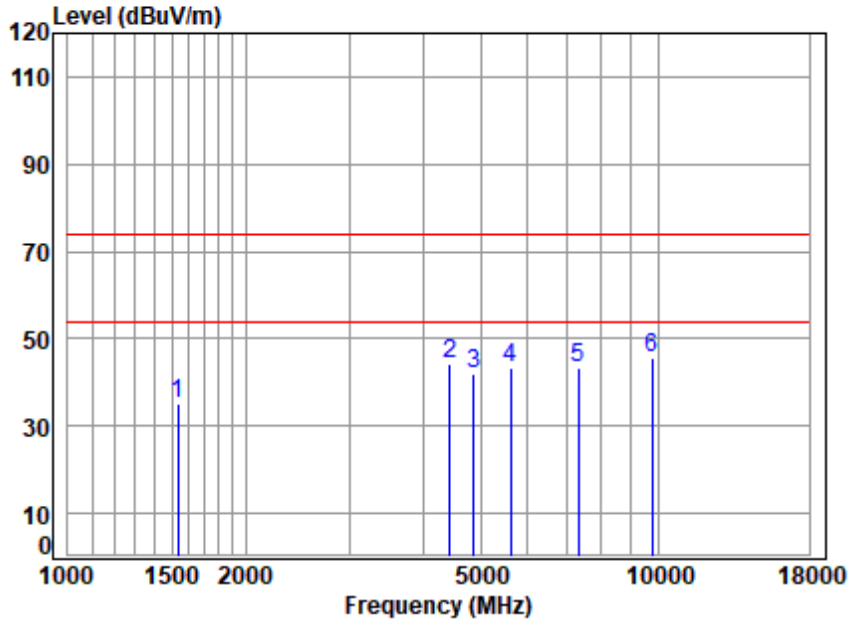
Test Mode: 14; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2437 TX RSE
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1538.281	4.65	26.95	61.67	65.15	35.08	74.00	-38.92	peak
2	4443.453	7.94	34.28	61.58	63.71	44.35	74.00	-29.65	peak
3	4874.000	8.03	34.60	61.94	61.16	41.85	74.00	-32.15	peak
4	5615.620	9.35	34.61	62.49	61.91	43.38	74.00	-30.62	peak
5	7311.000	9.21	35.70	61.99	60.38	43.30	74.00	-30.70	peak
6 p	9748.000	11.32	37.40	62.19	59.15	45.68	74.00	-28.32	peak

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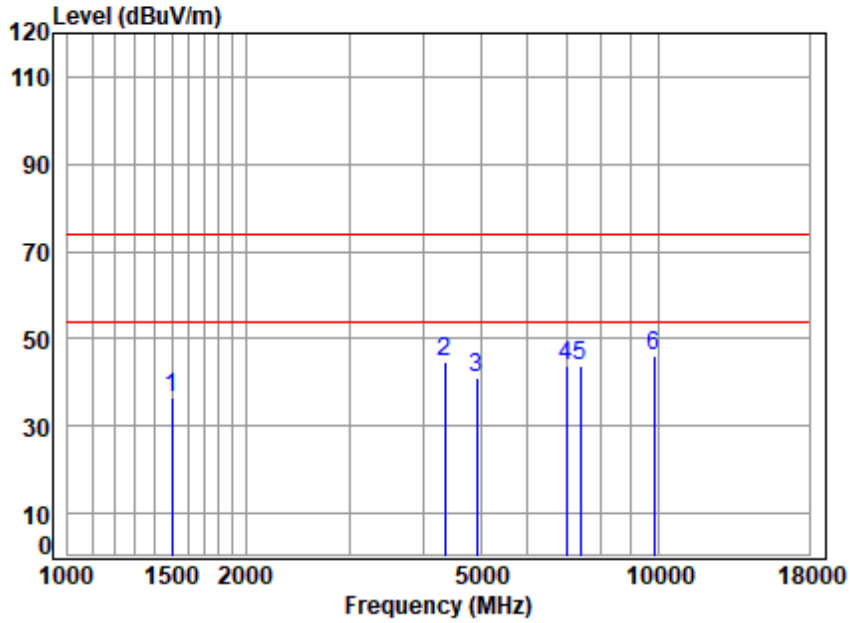
Test Mode: 14; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2462 TX RSE
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	4.58	26.81	61.66	66.92	36.65	74.00	-37.35	peak
2	4354.454	8.06	34.44	61.50	63.84	44.84	74.00	-29.16	peak
3	4924.000	8.05	34.65	61.98	60.29	41.01	74.00	-32.99	peak
4	6995.172	9.53	35.71	62.16	60.84	43.92	74.00	-30.08	peak
5	7386.000	9.14	35.77	61.95	60.74	43.70	74.00	-30.30	peak
6 p	9848.000	11.27	37.20	62.22	59.91	46.16	74.00	-27.84	peak

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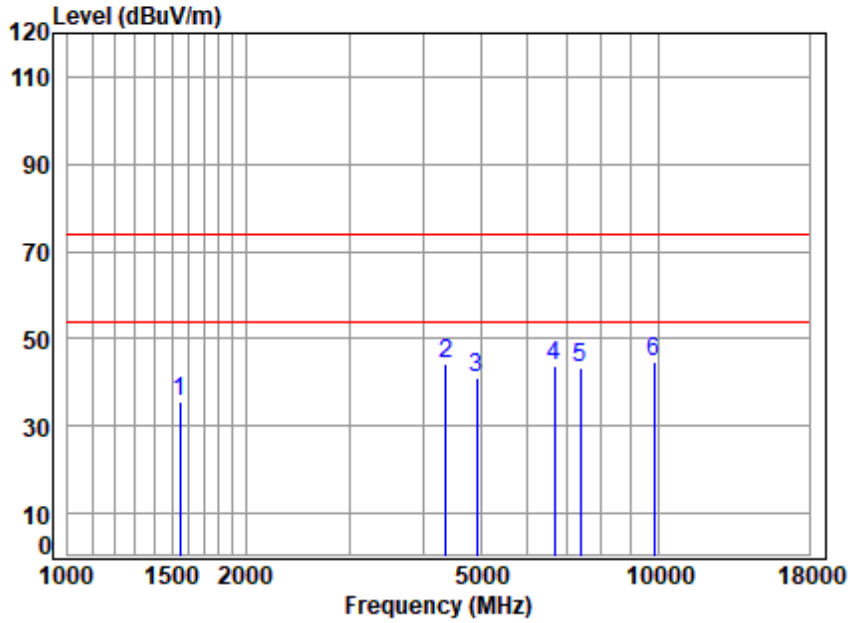
Test Mode: 14; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2462 TX RSE
: 2.4G WIFI 11B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1547.199	4.67	26.99	61.67	65.79	35.78	74.00	-38.22	peak
2	4367.058	8.04	34.54	61.51	63.25	44.32	74.00	-29.68	peak
3	4924.000	8.05	34.65	61.98	60.48	41.20	74.00	-32.80	peak
4	6659.763	9.27	35.20	62.35	61.77	43.89	74.00	-30.11	peak
5	7386.000	9.14	35.77	61.95	60.59	43.55	74.00	-30.45	peak
6 p	9848.000	11.27	37.20	62.22	58.32	44.57	74.00	-29.43	peak

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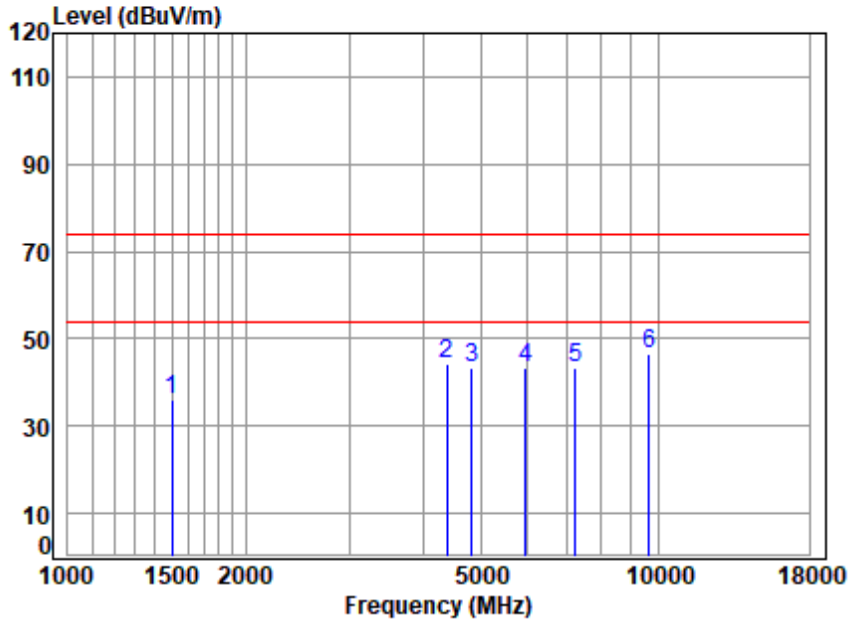
Test Mode: 14; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2412 TX RSE
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	4.58	26.81	61.66	66.46	36.19	74.00	-37.81	peak
2	4379.699	8.02	34.64	61.52	63.14	44.28	74.00	-29.72	peak
3	4824.000	8.01	34.40	61.90	62.95	43.46	74.00	-30.54	peak
4	5967.033	9.51	34.77	62.73	61.70	43.25	74.00	-30.75	peak
5	7236.000	9.29	35.70	62.03	60.59	43.55	74.00	-30.45	peak
6 p	9648.000	11.38	37.50	62.16	59.82	46.54	74.00	-27.46	peak

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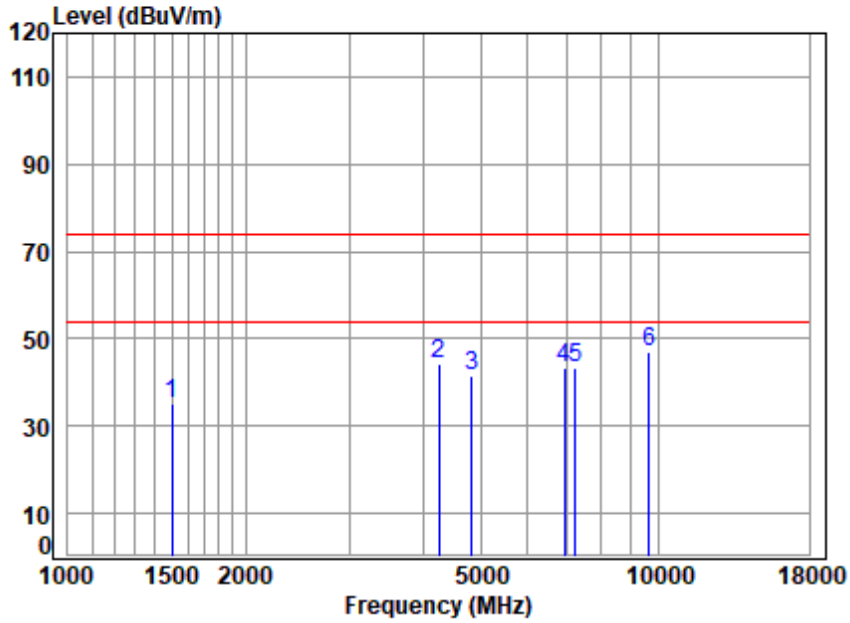
Test Mode: 14; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2412 TX RSE
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	4.57	26.77	61.66	65.59	35.27	74.00	-38.73	peak
2	4242.641	8.21	33.80	61.40	63.83	44.44	74.00	-29.56	peak
3	4824.000	8.01	34.40	61.90	61.11	41.62	74.00	-32.38	peak
4	6934.778	9.48	35.74	62.19	60.13	43.16	74.00	-30.84	peak
5	7236.000	9.29	35.70	62.03	60.42	43.38	74.00	-30.62	peak
6 p	9648.000	11.38	37.50	62.16	60.44	47.16	74.00	-26.84	peak

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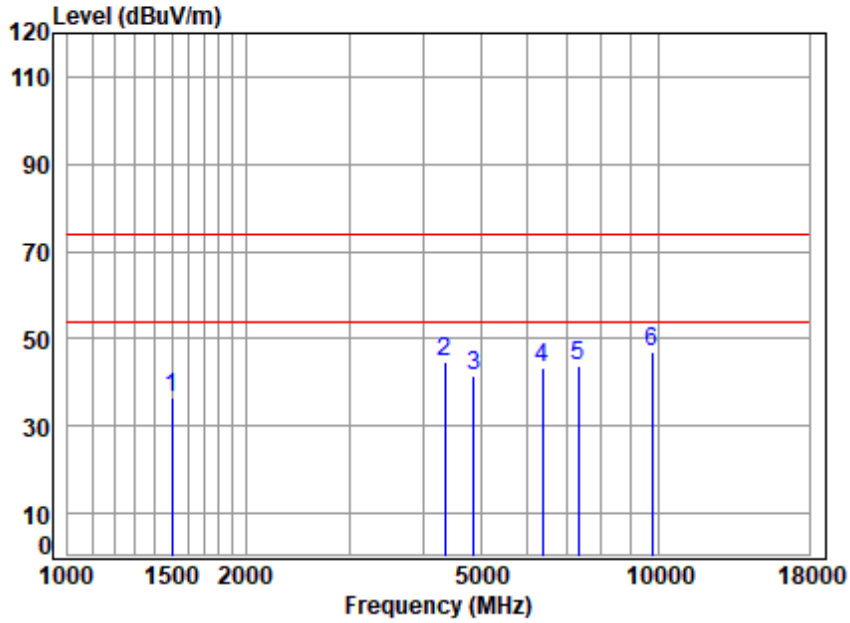
Test Mode: 14; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2437 TX RSE
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	4.58	26.81	61.66	66.67	36.40	74.00	-37.60	peak
2	4354.454	8.06	34.44	61.50	63.64	44.64	74.00	-29.36	peak
3	4874.000	8.03	34.60	61.94	60.94	41.63	74.00	-32.37	peak
4	6377.195	9.23	35.06	62.51	61.62	43.40	74.00	-30.60	peak
5	7311.000	9.21	35.70	61.99	61.01	43.93	74.00	-30.07	peak
6	p 9748.000	11.32	37.40	62.19	60.39	46.92	74.00	-27.08	peak

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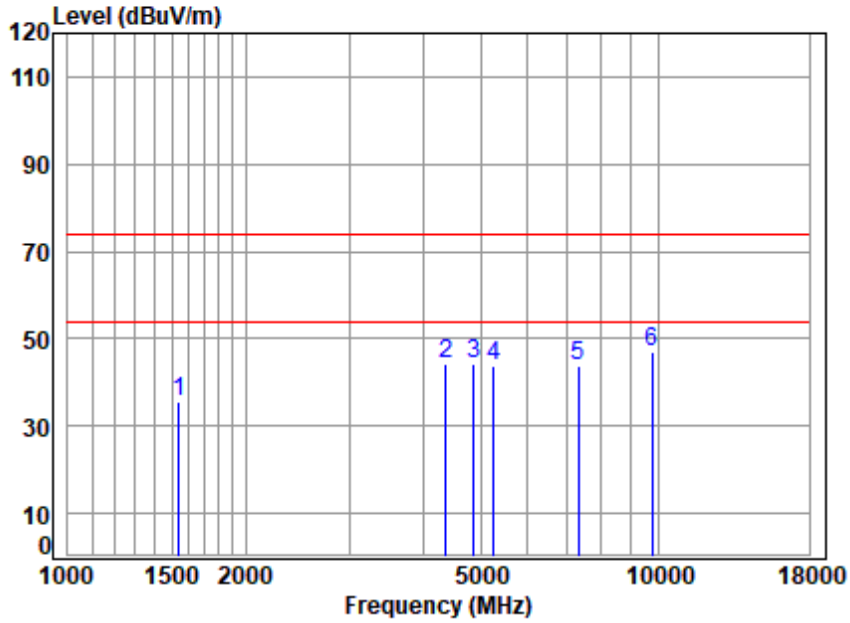
Test Mode: 14; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2437 TX RSE
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1542.733	4.66	26.97	61.67	65.49	35.45	74.00	-38.55	peak
2	4367.058	8.04	34.54	61.51	62.99	44.06	74.00	-29.94	peak
3	4874.000	8.03	34.60	61.94	63.35	44.04	74.00	-29.96	peak
4	5254.440	8.72	34.11	62.23	63.09	43.69	74.00	-30.31	peak
5	7311.000	9.21	35.70	61.99	60.92	43.84	74.00	-30.16	peak
6 p	9748.000	11.32	37.40	62.19	60.66	47.19	74.00	-26.81	peak

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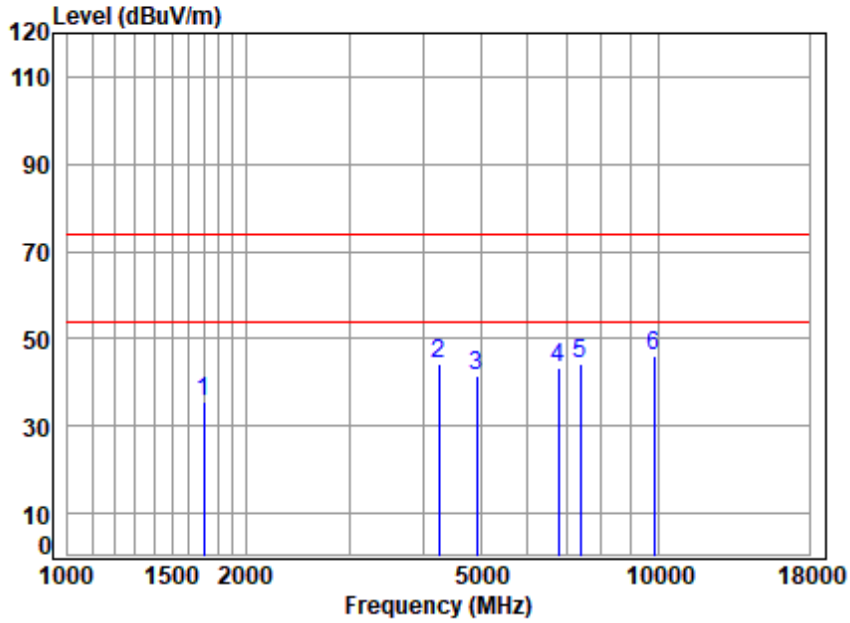
Test Mode: 14; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2462 TX RSE
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1697.129	4.99	26.21	61.71	65.93	35.42	74.00	-38.58	peak
2	4242.641	8.21	33.80	61.40	63.53	44.14	74.00	-29.86	peak
3	4924.000	8.05	34.65	61.98	60.72	41.44	74.00	-32.56	peak
4	6776.265	9.36	35.25	62.28	60.87	43.20	74.00	-30.80	peak
5	7386.000	9.14	35.77	61.95	61.11	44.07	74.00	-29.93	peak
6 p	9848.000	11.27	37.20	62.22	59.81	46.06	74.00	-27.94	peak

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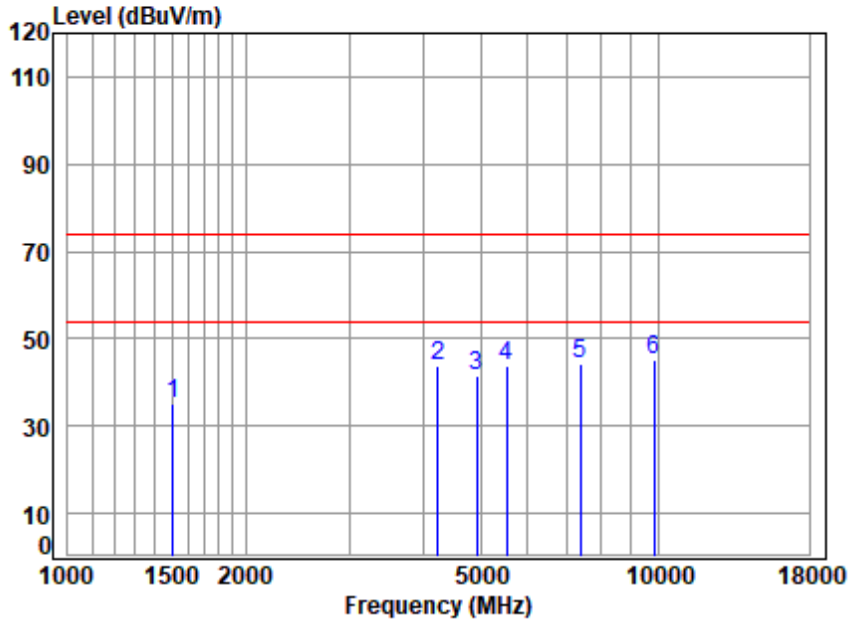
Member of the SGS Group (SGS SA)

Test Mode: 14; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2462 TX RSE
: 2.4G WIFI 11G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1507.470	4.59	26.83	61.66	65.59	35.35	74.00	-38.65	peak
2	4230.396	8.23	33.80	61.39	63.22	43.86	74.00	-30.14	peak
3	4924.000	8.05	34.65	61.98	60.81	41.53	74.00	-32.47	peak
4	5535.047	9.32	34.64	62.44	62.07	43.59	74.00	-30.41	peak
5	7386.000	9.14	35.77	61.95	61.15	44.11	74.00	-29.89	peak
6 p	9848.000	11.27	37.20	62.22	58.87	45.12	74.00	-28.88	peak

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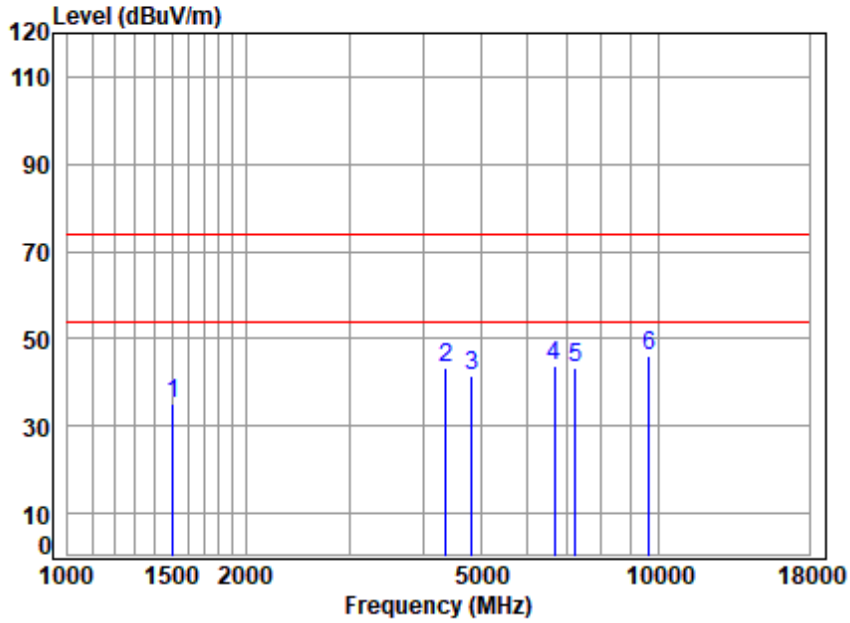
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1507.470	4.59	26.83	61.66	65.26	35.02	74.00	-38.98	peak
2	4367.058	8.04	34.54	61.51	62.37	43.44	74.00	-30.56	peak
3	4824.000	8.01	34.40	61.90	60.86	41.37	74.00	-32.63	peak
4	6679.040	9.28	35.20	62.34	61.63	43.77	74.00	-30.23	peak
5	7236.000	9.29	35.70	62.03	60.24	43.20	74.00	-30.80	peak
6 p	9648.000	11.38	37.50	62.16	59.42	46.14	74.00	-27.86	peak

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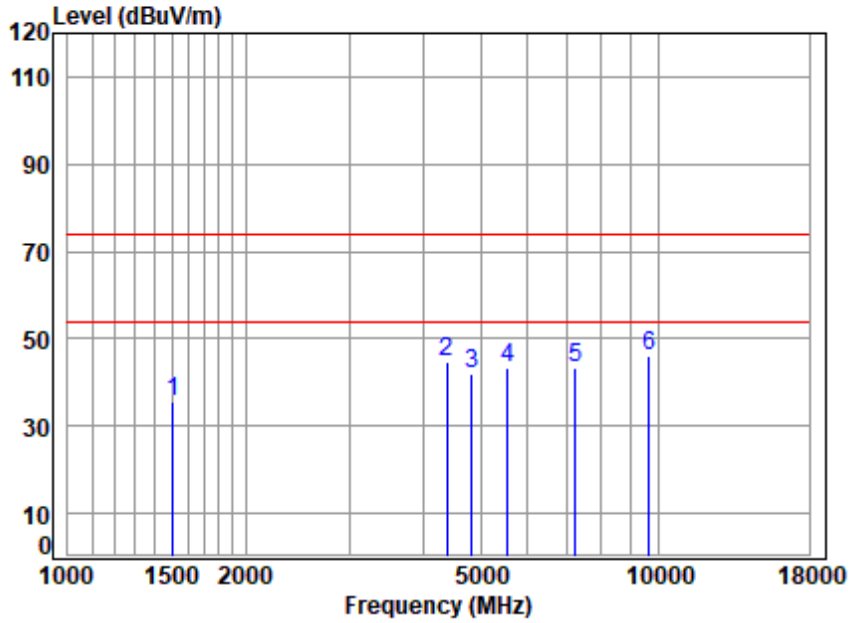
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1507.470	4.59	26.83	61.66	65.70	35.46	74.00	-38.54	peak
2	4379.699	8.02	34.64	61.52	63.62	44.76	74.00	-29.24	peak
3	4824.000	8.01	34.40	61.90	61.45	41.96	74.00	-32.04	peak
4	5567.137	9.33	34.70	62.46	61.73	43.30	74.00	-30.70	peak
5	7236.000	9.29	35.70	62.03	60.56	43.52	74.00	-30.48	peak
6 p	9648.000	11.38	37.50	62.16	59.33	46.05	74.00	-27.95	peak

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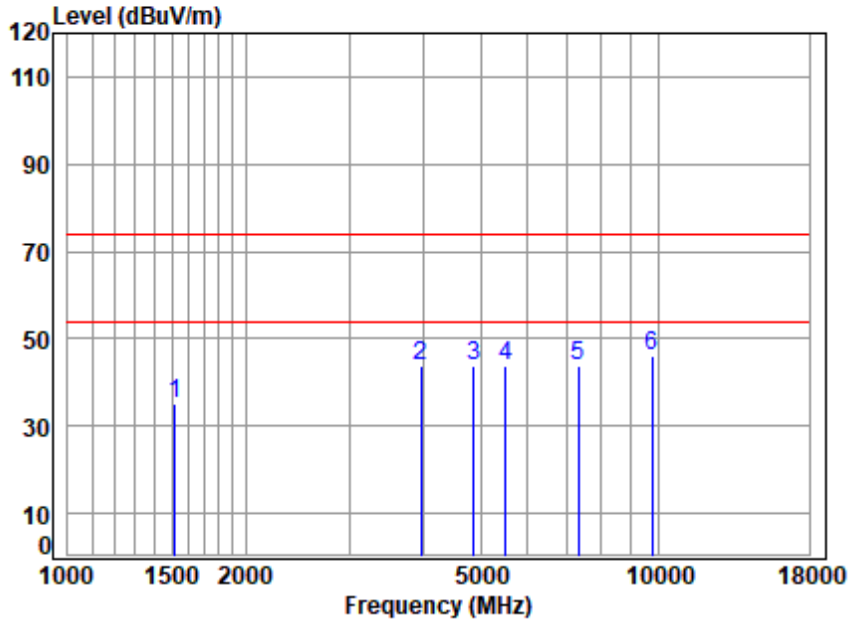
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1520.598	4.62	26.88	61.66	65.45	35.29	74.00	-38.71	peak
2	3958.309	8.43	33.42	61.18	63.33	44.00	74.00	-30.00	peak
3	4874.000	8.03	34.60	61.94	63.08	43.77	74.00	-30.23	peak
4	5519.072	9.31	34.58	62.42	62.32	43.79	74.00	-30.21	peak
5	7311.000	9.21	35.70	61.99	60.94	43.86	74.00	-30.14	peak
6 p	9748.000	11.32	37.40	62.19	59.36	45.89	74.00	-28.11	peak

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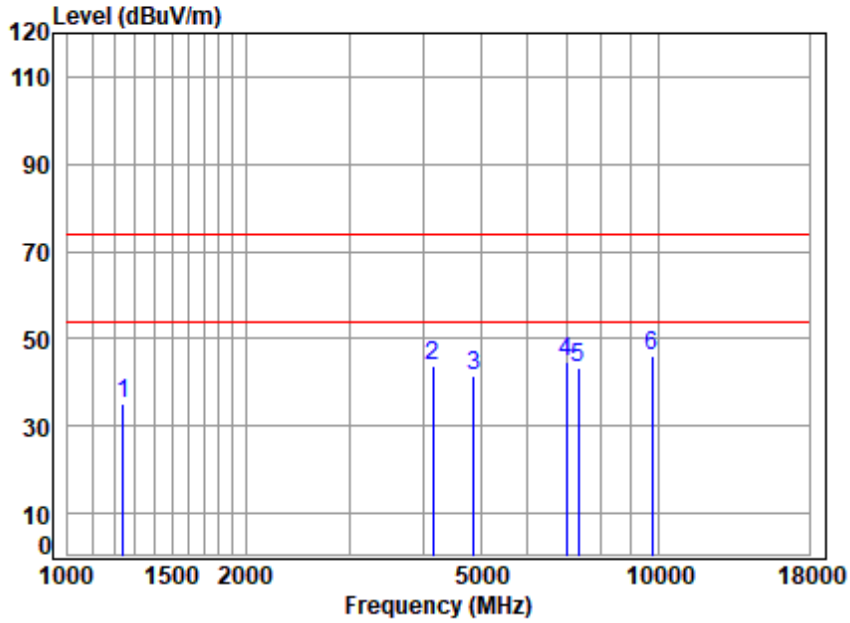
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	4.56	24.99	61.57	67.21	35.19	74.00	-38.81	peak
2	4157.664	8.33	33.80	61.32	62.91	43.72	74.00	-30.28	peak
3	4874.000	8.03	34.60	61.94	60.78	41.47	74.00	-32.53	peak
4	6995.172	9.53	35.71	62.16	61.83	44.91	74.00	-29.09	peak
5	7311.000	9.21	35.70	61.99	60.33	43.25	74.00	-30.75	peak
6	p 9748.000	11.32	37.40	62.19	59.56	46.09	74.00	-27.91	peak

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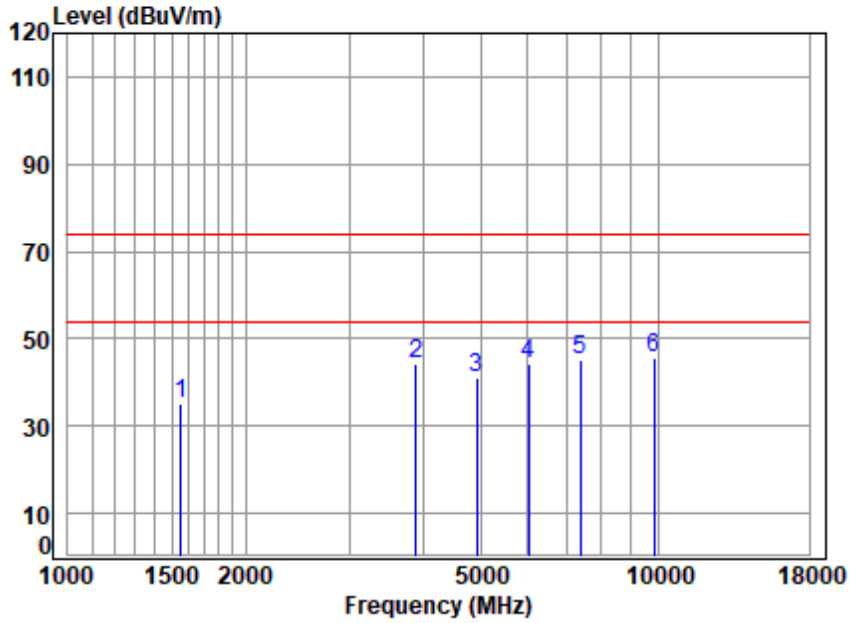
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2462 TX RSE
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1556.169	4.69	26.98	61.67	65.16	35.16	74.00	-38.84	peak
2	3890.255	8.21	33.66	61.19	63.63	44.31	74.00	-29.69	peak
3	4924.000	8.05	34.65	61.98	60.54	41.26	74.00	-32.74	peak
4	6018.999	9.50	34.94	62.74	62.35	44.05	74.00	-29.95	peak
5	7386.000	9.14	35.77	61.95	62.01	44.97	74.00	-29.03	peak
6 p	9848.000	11.27	37.20	62.22	59.59	45.84	74.00	-28.16	peak

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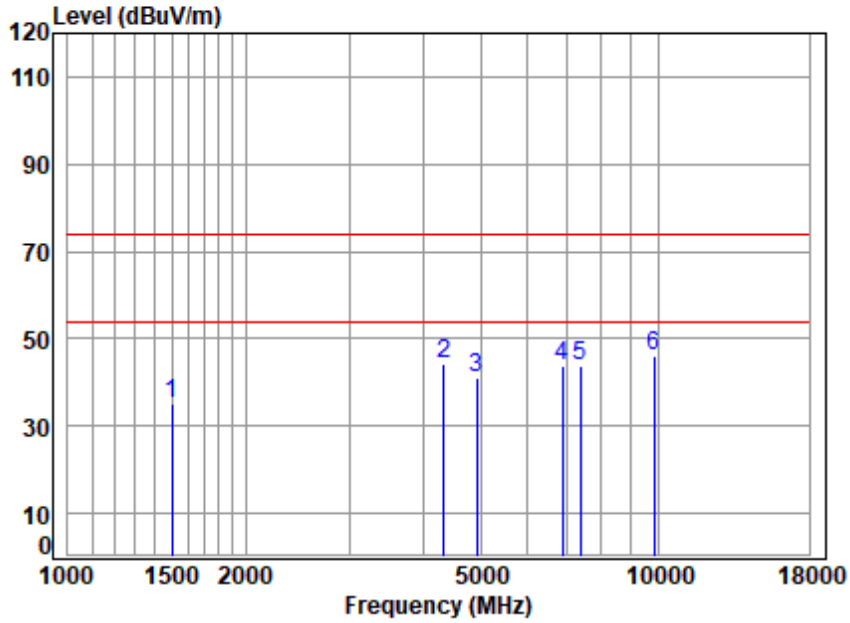
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2462 TX RSE
: 2.4G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	4.58	26.81	61.66	65.18	34.91	74.00	-39.09	peak
2	4329.354	8.09	34.23	61.48	63.30	44.14	74.00	-29.86	peak
3	4924.000	8.05	34.65	61.98	60.36	41.08	74.00	-32.92	peak
4	6874.906	9.44	35.55	62.22	60.85	43.62	74.00	-30.38	peak
5	7386.000	9.14	35.77	61.95	60.75	43.71	74.00	-30.29	peak
6 p	9848.000	11.27	37.20	62.22	59.83	46.08	74.00	-27.92	peak

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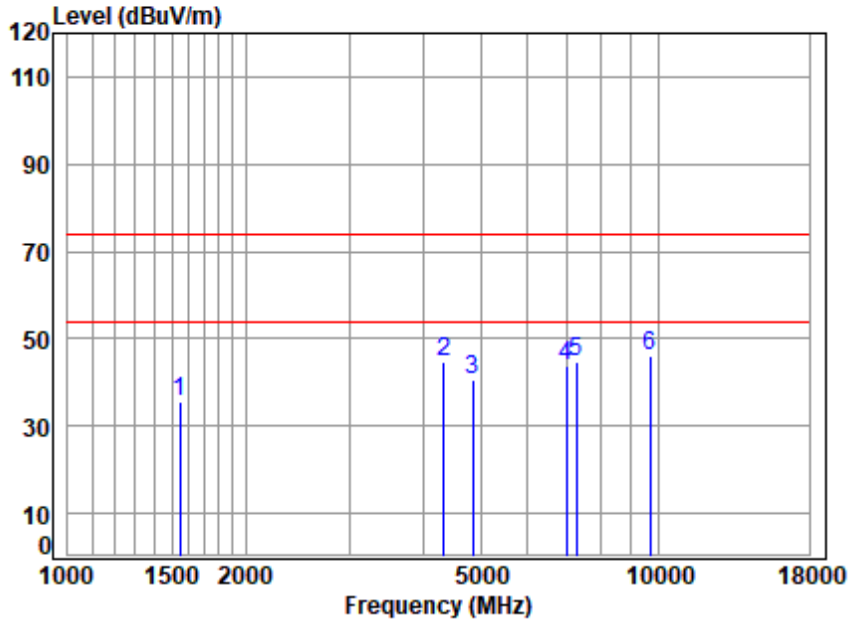
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2422 TX RSE
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1547.199	4.67	26.99	61.67	65.74	35.73	74.00	-38.27	peak
2	4329.354	8.09	34.23	61.48	63.72	44.56	74.00	-29.44	peak
3	4844.000	8.01	34.48	61.92	60.06	40.63	74.00	-33.37	peak
4	6995.172	9.53	35.71	62.16	60.53	43.61	74.00	-30.39	peak
5	7266.000	9.26	35.70	62.01	61.79	44.74	74.00	-29.26	peak
6 p	9688.000	11.36	37.50	62.17	59.56	46.25	74.00	-27.75	peak

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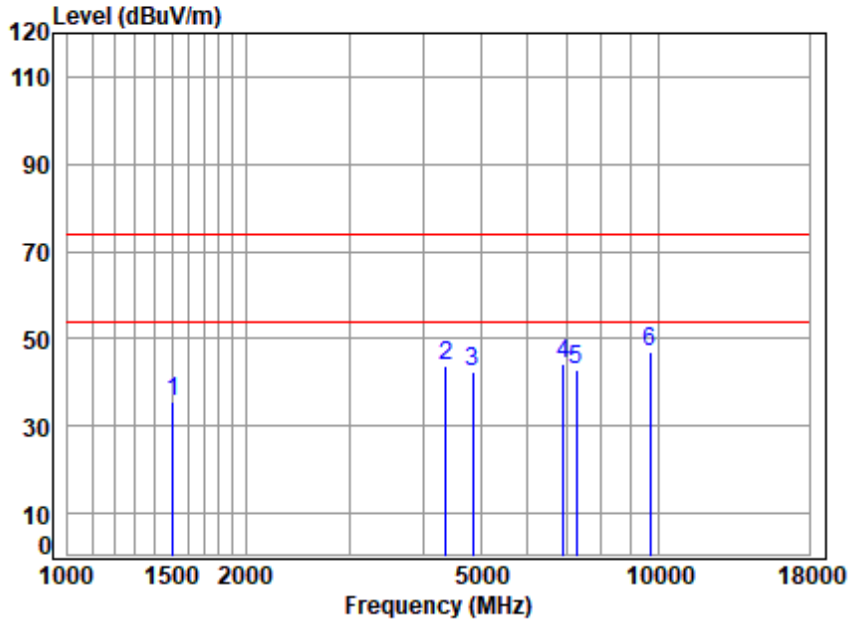
Member of the SGS Group (SGS SA)

Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2422 TX RSE
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1507.470	4.59	26.83	61.66	65.85	35.61	74.00	-38.39	peak
2	4367.058	8.04	34.54	61.51	62.84	43.91	74.00	-30.09	peak
3	4844.000	8.01	34.48	61.92	61.73	42.30	74.00	-31.70	peak
4	6894.806	9.45	35.59	62.21	61.35	44.18	74.00	-29.82	peak
5	7266.000	9.26	35.70	62.01	59.96	42.91	74.00	-31.09	peak
6 p	9688.000	11.36	37.50	62.17	60.29	46.98	74.00	-27.02	peak

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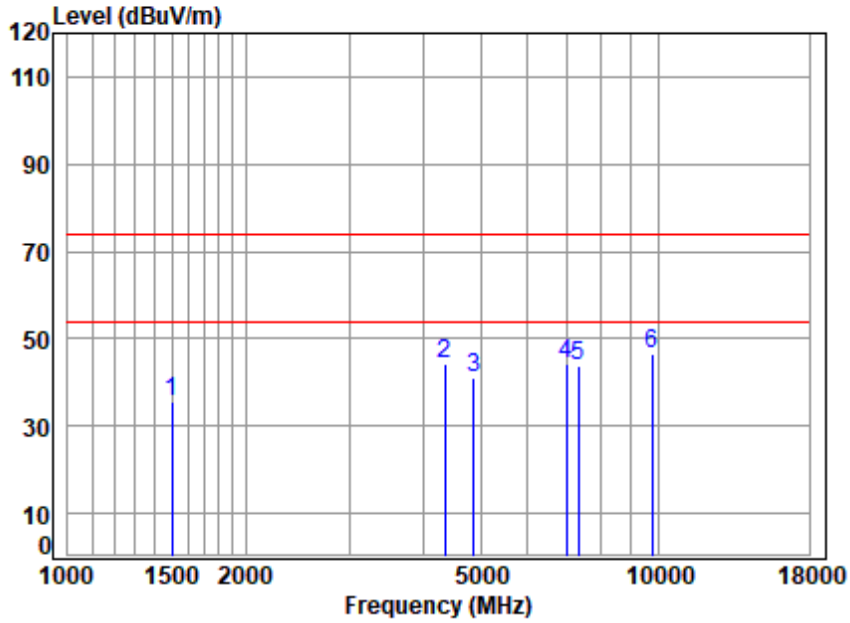
Member of the SGS Group (SGS SA)

Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1498.781	4.57	26.77	61.66	65.73	35.41	74.00	-38.59	peak
2	4354.454	8.06	34.44	61.50	63.47	44.47	74.00	-29.53	peak
3	4874.000	8.03	34.60	61.94	60.60	41.29	74.00	-32.71	peak
4	6974.982	9.51	35.75	62.17	61.15	44.24	74.00	-29.76	peak
5	7311.000	9.21	35.70	61.99	61.04	43.96	74.00	-30.04	peak
6 p	9748.000	11.32	37.40	62.19	59.86	46.39	74.00	-27.61	peak

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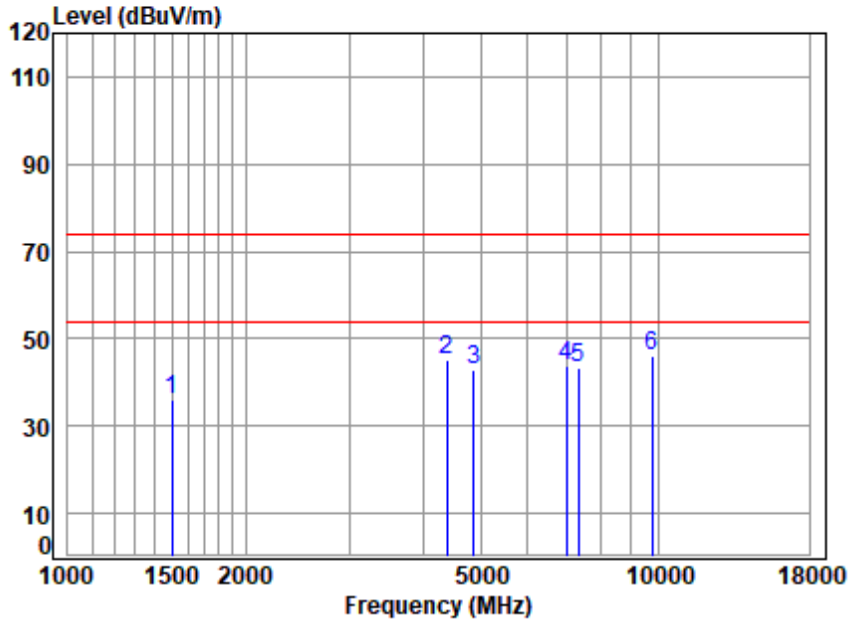
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	4.58	26.81	61.66	66.21	35.94	74.00	-38.06	peak
2	4392.376	8.00	34.74	61.53	64.16	45.37	74.00	-28.63	peak
3	4874.000	8.03	34.60	61.94	62.11	42.80	74.00	-31.20	peak
4	6974.982	9.51	35.75	62.17	60.64	43.73	74.00	-30.27	peak
5	7311.000	9.21	35.70	61.99	60.37	43.29	74.00	-30.71	peak
6 p	9748.000	11.32	37.40	62.19	59.42	45.95	74.00	-28.05	peak

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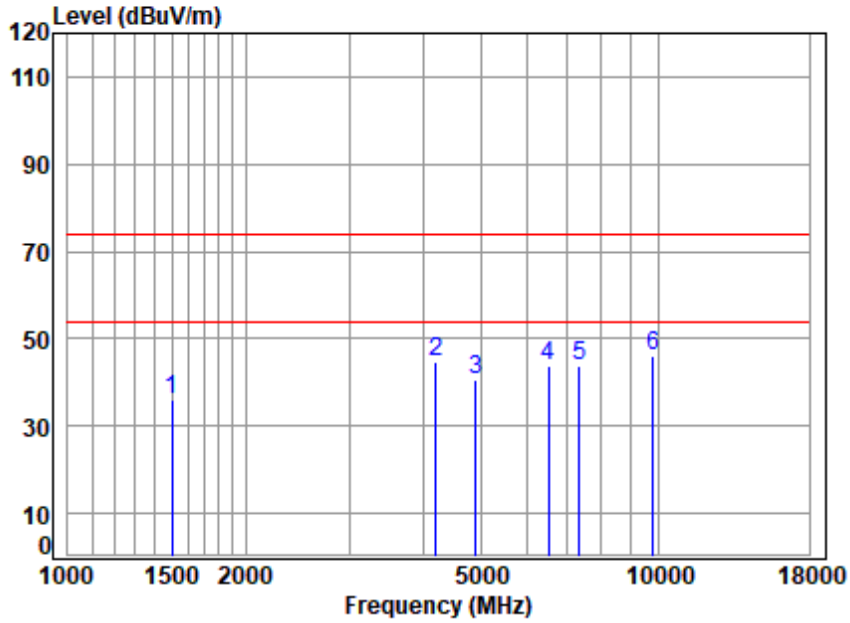
Test Mode: 14; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03651AT\03652AT
Mode : 2452 TX RSE
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	4.58	26.81	61.66	66.12	35.85	74.00	-38.15	peak
2	4206.011	8.26	33.80	61.37	64.14	44.83	74.00	-29.17	peak
3	4904.000	8.04	34.69	61.96	59.79	40.56	74.00	-33.44	peak
4	6507.536	9.15	35.58	62.44	61.32	43.61	74.00	-30.39	peak
5	7356.000	9.17	35.71	61.96	60.81	43.73	74.00	-30.27	peak
6 p	9808.000	11.29	37.28	62.21	59.83	46.19	74.00	-27.81	peak

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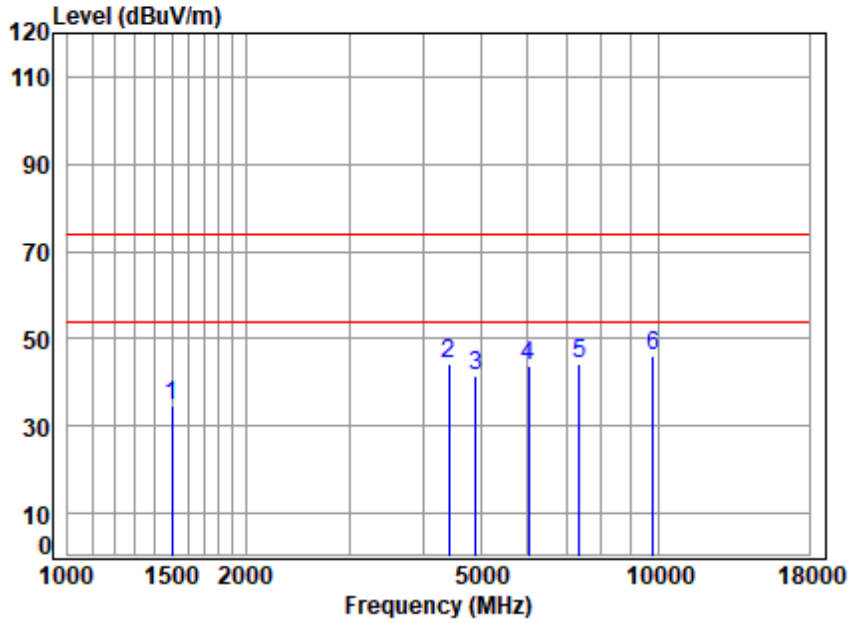
Test Mode: 14; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03651AT\03652AT
Mode : 2452 TX RSE
: 2.4G WIFI 11N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	4.58	26.81	61.66	64.91	34.64	74.00	-39.36	peak
2	4417.841	7.97	34.59	61.56	63.09	44.09	74.00	-29.91	peak
3	4904.000	8.04	34.69	61.96	60.91	41.68	74.00	-32.32	peak
4	6036.421	9.49	34.97	62.73	61.97	43.70	74.00	-30.30	peak
5	7356.000	9.17	35.71	61.96	61.24	44.16	74.00	-29.84	peak
6 p	9808.000	11.29	37.28	62.21	59.89	46.25	74.00	-27.75	peak

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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2409003651AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2409003651AT

- End of the Report -

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