

TEST REPORT

Application No.: SZCR2507003037AT
Applicant: Fujian Newland Payment Technology Co.,Ltd.
Address of Applicant: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fujian, China
Manufacturer: Fujian Newland Payment Technology Co.,Ltd.
Address of Manufacturer: No. B602, Building #1, Haixia Jingmao Plaza, Fuzhou Bonded Area 350015, Fujian, China
Equipment Under Test (EUT):
EUT Description: POS Terminal
Model No.: S90
Trade Mark: Newland
FCC ID: 2AM6U-NAS90P
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2025-07-14
Date of Test: 2025-07-24 to 2025-07-25
Date of Issue: 2025-07-30

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-07-30		Original

Authorized for issue by:				
		Donjon . Huang		
		Donjon Huang/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 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power		ANSI C63.10 (2020) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Reference report TCWA24120042103
Minimum 6dB Bandwidth		ANSI C63.10 (2020) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	
Power Spectrum Density		ANSI C63.10 (2020) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	
Conducted Band Edges Measurement		ANSI C63.10 (2020) Section 6.10.4	47 CFR Part 15, Subpart C 15.247(d)	
Conducted Spurious Emissions		ANSI C63.10 (2020) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	



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Remark:

EUT 1	EUT 2	EUT 3
S2_33_00_00_XX (Standard Version)	S2_73_00_00_XX (LCD_2 Version)	S2_33_13_00_XX (SCAN Version)

Note: The bits 13 and 14 of "xx" in HWID represent customized accessory information, the configuration of the camera, such as the number of cameras, pixels, and so on.

EUT1 as the main test.

EUT2 adds scanning functionality based on EUT1.

EUT3 adds an LCD screen based on EUT1.

The above differences do not affect the RF performance, so only EUT1 was evaluated this time.

This test report (Report No.: SZCR250700303704 issue on 2025-07-30) is based on the original FCC ID: XMR2025SC200VNA (Report No.: TCWA24120042103 issue by Sushi TOWE Wireless Testing(Shenzhen) CO., Ltd. On 2025-03-06).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

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 the Radiated Emissions which fall in the restricted bands, Radiated Spurious Emissions Below 1GHz and Radiated Spurious Emissions Above 1GHz were tested and other test data please refer to the previous report with report number TCWA24120042103 issue by Sushi TOWE Wireless Testing(Shenzhen) CO., Ltd. On 2025-03-06.



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9 EUT Constructional Details (EUT Photos)77



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 7.6V
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (DBPSK, DQPSK, CCK); 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20):11; 802.11n(HT40):7
Channel Spacing:	5MHz
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Antenna Type:	☐ External, ☒ Integrated
Antenna Gain:	0.85dBi; Note: The antenna gain are derived from the gain information report provided by the manufacturer.

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 Environment Parameter

Environment Parameter	1020 mbar Selected Values During Tests	
Relative Humidity	42.5-56.3 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	23.4~23.5	7.6
Note:		
NV:Normal Voltage	LV:Low Extreme Test Voltage	HV:High Extreme Test Voltage
NT:Normal Temperature	LT:Low Extreme Test Temperature	HT:High Extreme Test Temperature

4.3 Description of Support Units

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

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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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4.5 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.6 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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5 Equipment List

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	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
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	2025-07-05	2026-07-04
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-22	2027-07-21
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

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	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04



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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	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
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	2025-07-05	2026-07-04
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-22	2027-07-21
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

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	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-01-08	2026-01-07
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

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	2025-07-23 2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24 2025-07-23	2025-07-23 2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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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

15.203 requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.85dBi.

Antenna location: Refer to Internal photos.



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 (2020) 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: 25.3 °C

Humidity: 40.5 % RH

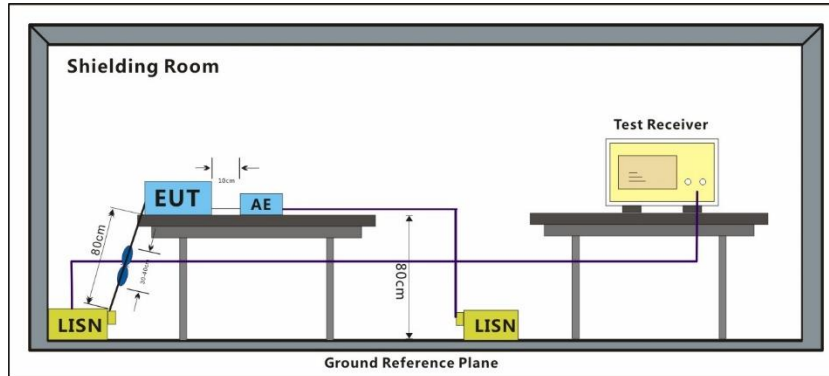
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	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



7.1.4 Measurement Procedure and Data

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

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



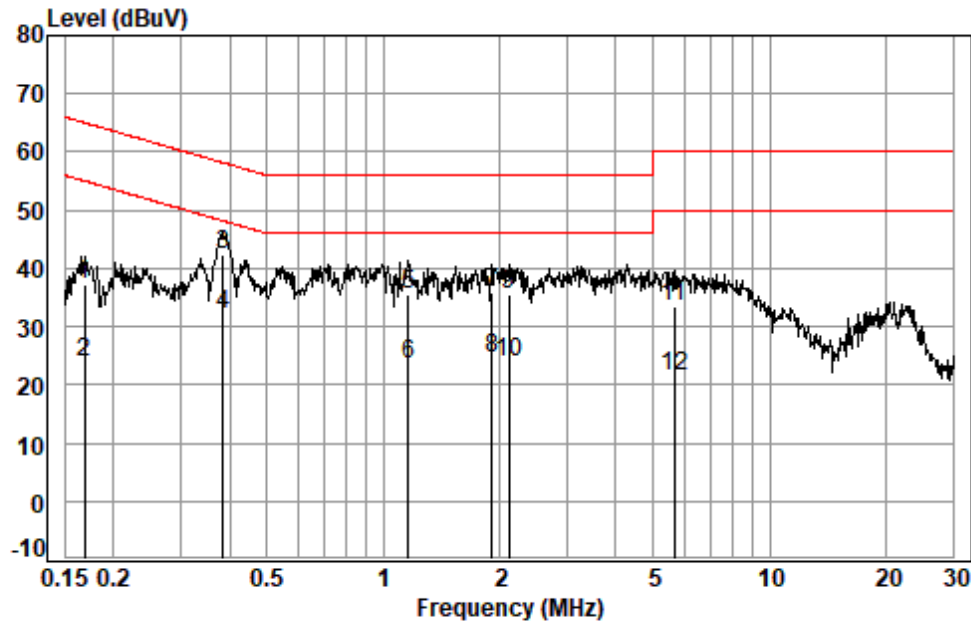
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700303704

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Test Mode: 06; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03037AT
Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1685	0.05	10.16	26.96	37.17	65.03	-27.86	QP
2	0.1685	0.05	10.16	13.83	24.04	55.03	-30.99	Average
3 *	0.3852	0.08	9.70	32.50	42.28	58.17	-15.89	QP
4 *	0.3852	0.08	9.70	22.21	31.99	48.17	-16.18	Average
5	1.1595	0.10	9.58	25.89	35.57	56.00	-20.43	QP
6	1.1595	0.10	9.58	13.95	23.63	46.00	-22.37	Average
7	1.9080	0.11	9.58	26.09	35.78	56.00	-20.22	QP
8	1.9080	0.11	9.58	14.71	24.40	46.00	-21.60	Average
9	2.1101	0.11	9.59	25.92	35.62	56.00	-20.38	QP
10	2.1101	0.11	9.59	14.20	23.90	46.00	-22.10	Average
11	5.6532	0.14	9.67	23.70	33.51	60.00	-26.49	QP
12	5.6532	0.14	9.67	11.84	21.65	50.00	-28.35	Average



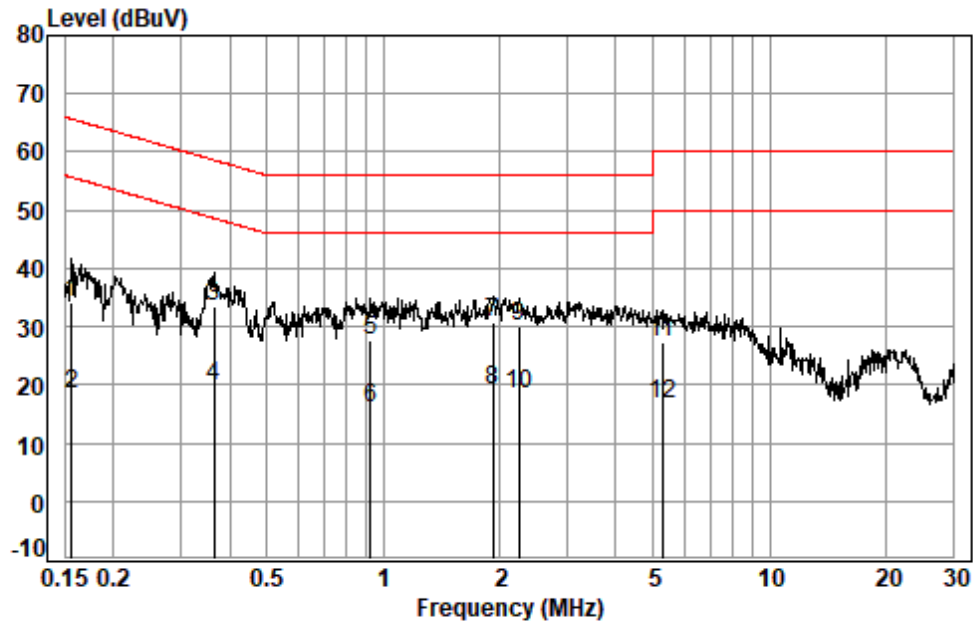
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Test Mode: 06; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03037AT
Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1565	0.05	10.14	24.12	34.31	65.65	-31.34	QP
2	0.1565	0.05	10.14	8.30	18.49	55.65	-37.16	Average
3 *	0.3653	0.07	9.75	23.68	33.50	58.61	-25.11	QP
4	0.3653	0.07	9.75	10.11	19.93	48.61	-28.68	Average
5	0.9282	0.10	9.56	17.95	27.61	56.00	-28.39	QP
6	0.9282	0.10	9.56	6.48	16.14	46.00	-29.86	Average
7	1.9284	0.11	9.55	20.93	30.59	56.00	-25.41	QP
8 *	1.9284	0.11	9.55	9.55	19.21	46.00	-26.79	Average
9	2.2486	0.12	9.55	20.23	29.90	56.00	-26.10	QP
10	2.2486	0.12	9.55	8.67	18.34	46.00	-27.66	Average
11	5.2770	0.13	9.57	17.48	27.18	60.00	-32.82	QP
12	5.2770	0.13	9.57	6.97	16.67	50.00	-33.33	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 (2020) 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: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	05	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	06	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



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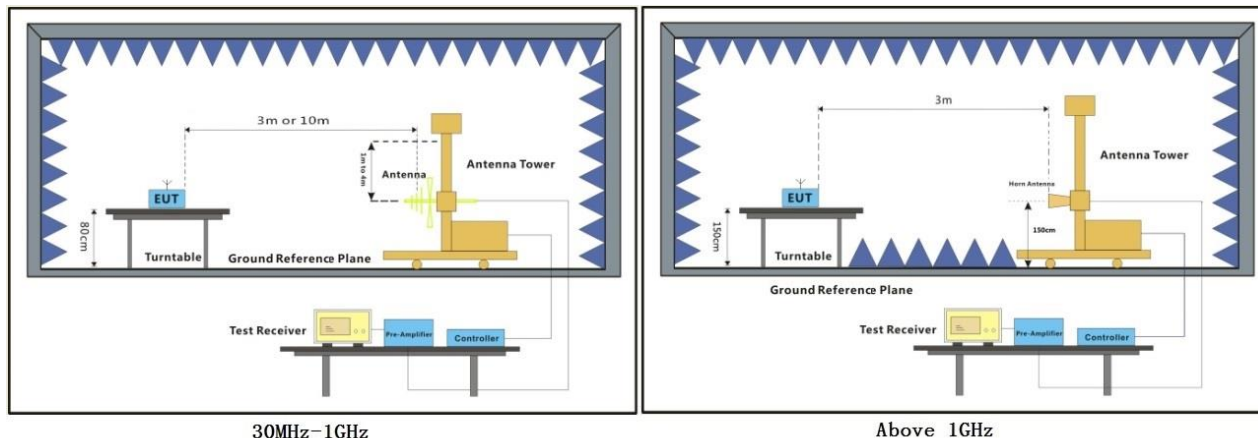
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rates. Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



30MHz-1GHz

Above 1GHz

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

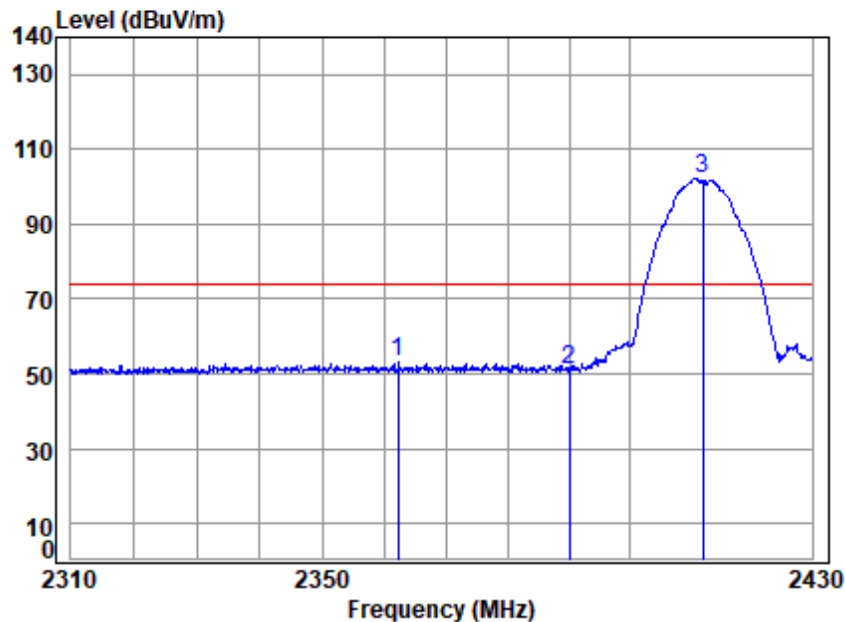
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



Test Mode: 06; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

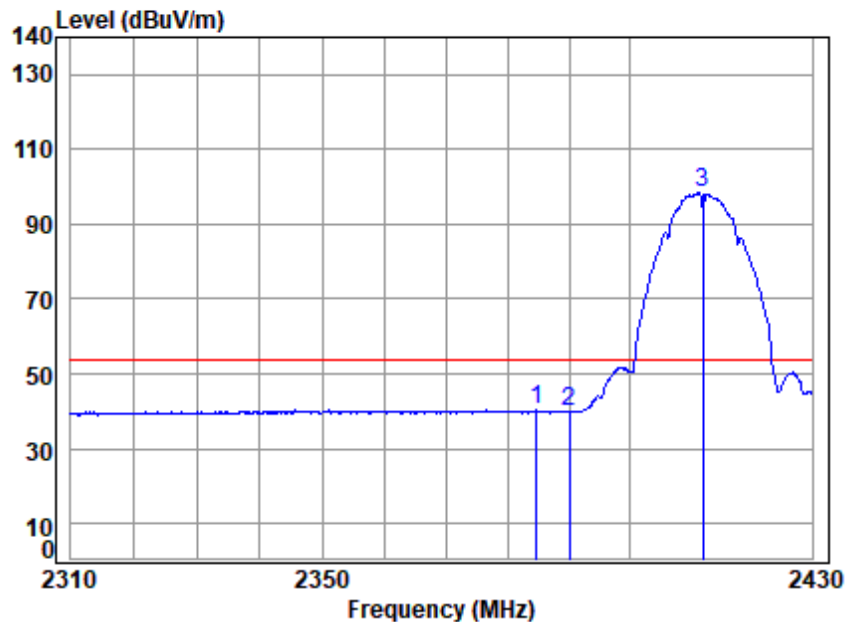


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2362.291	16.09	29.10	32.79	40.64	53.04	74.00	-20.96	peak
2	2390.000	16.13	29.10	32.78	38.63	51.08	74.00	-22.92	peak
3 p	2412.000	16.17	29.05	32.77	89.75	102.20	74.00	28.20	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

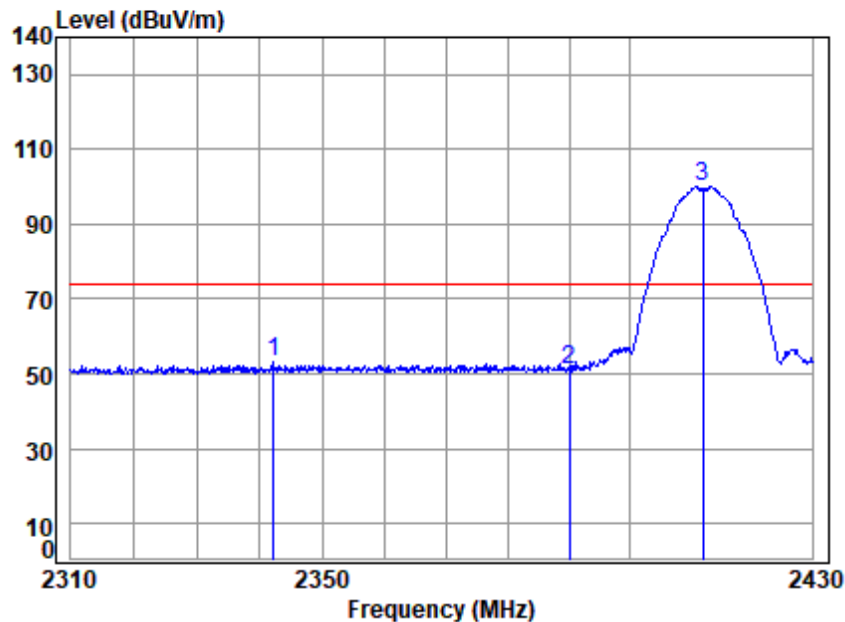


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2384.649	16.13	29.10	32.78	27.77	40.22	54.00	-13.78	Average
2	2390.000	16.13	29.10	32.78	27.31	39.76	54.00	-14.24	Average
3 q	2412.000	16.17	29.05	32.77	86.19	98.64	54.00	44.64	Average



Test Mode: 06; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

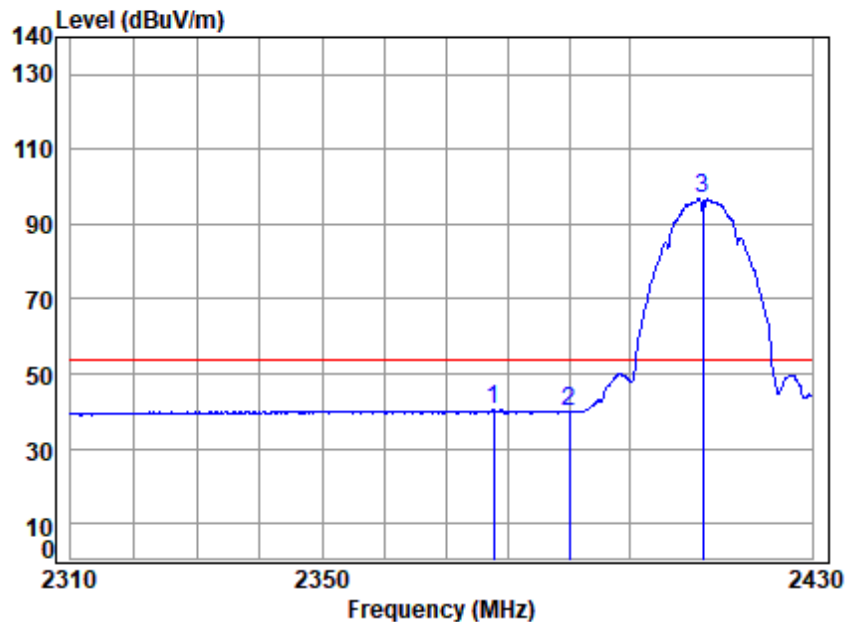


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2342.159	16.06	28.99	32.81	40.92	53.16	74.00	-20.84	Peak
2	2390.000	16.13	29.10	32.78	38.68	51.13	74.00	-22.87	Peak
3 p	2412.000	16.17	29.05	32.77	87.44	99.89	74.00	25.89	Peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

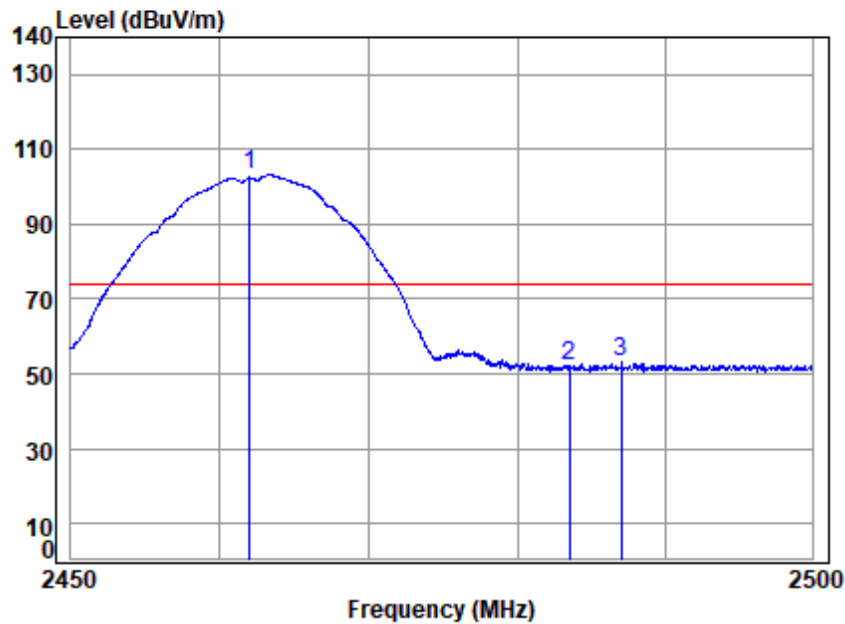


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2412 Band edge
: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2377.654	16.12	29.10	32.79	27.95	40.38	54.00	-13.62	Average
2	2390.000	16.13	29.10	32.78	27.36	39.81	54.00	-14.19	Average
3 q	2412.000	16.17	29.05	32.77	84.34	96.79	54.00	42.79	Average



Test Mode: 06; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

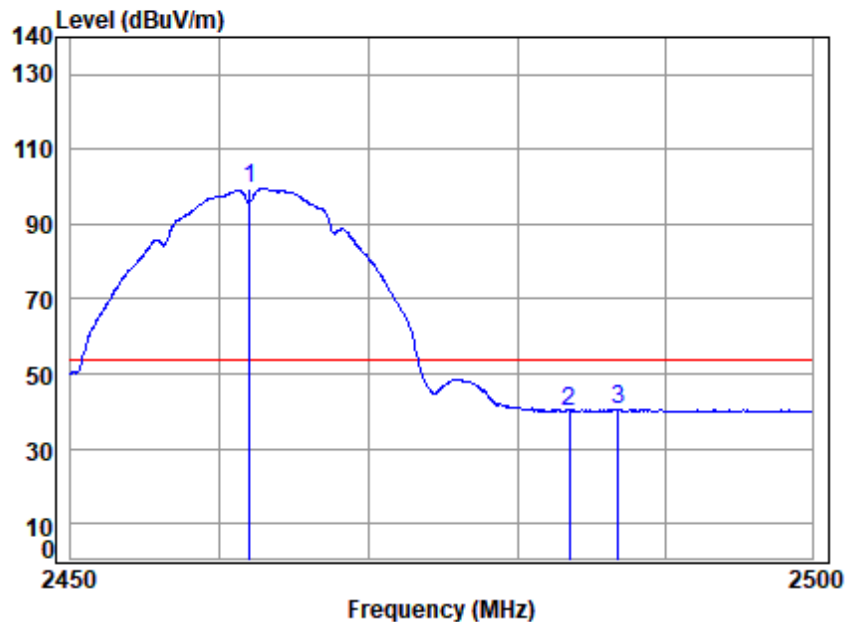


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	2462.000	16.24	28.90	32.74	90.69	103.09	74.00	29.09 peak
2	2483.500	16.28	28.90	32.73	39.78	52.23	74.00	-21.77 peak
3	2487.053	16.28	28.90	32.73	41.04	53.49	74.00	-20.51 peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

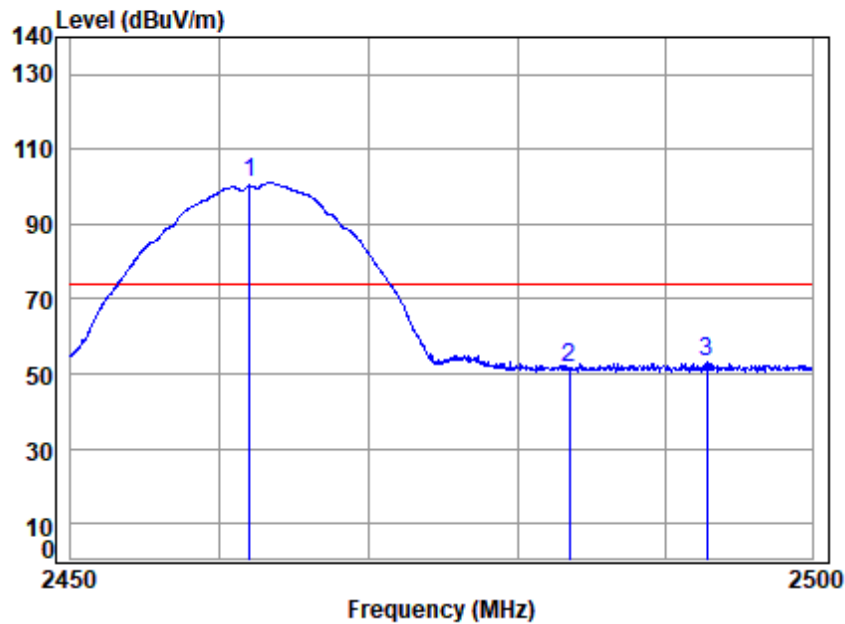


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q 2462.000	16.24	28.90	32.74	87.19	99.59	54.00	45.59	Average
2	2483.500	16.28	28.90	32.73	27.55	40.00	54.00	-14.00	Average
3	2486.853	16.28	28.90	32.73	28.25	40.70	54.00	-13.30	Average



Test Mode: 06; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

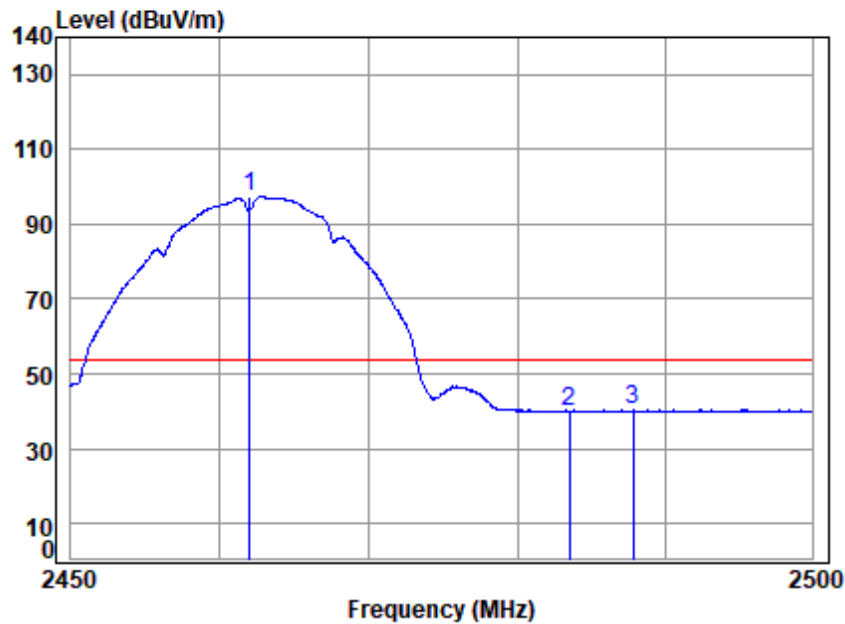


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	2462.000	16.24	28.90	32.74	88.59	100.99	74.00	26.99 Peak
2	2483.500	16.28	28.90	32.73	38.96	51.41	74.00	-22.59 Peak
3	2492.838	16.29	28.90	32.73	40.63	53.09	74.00	-20.91 Peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

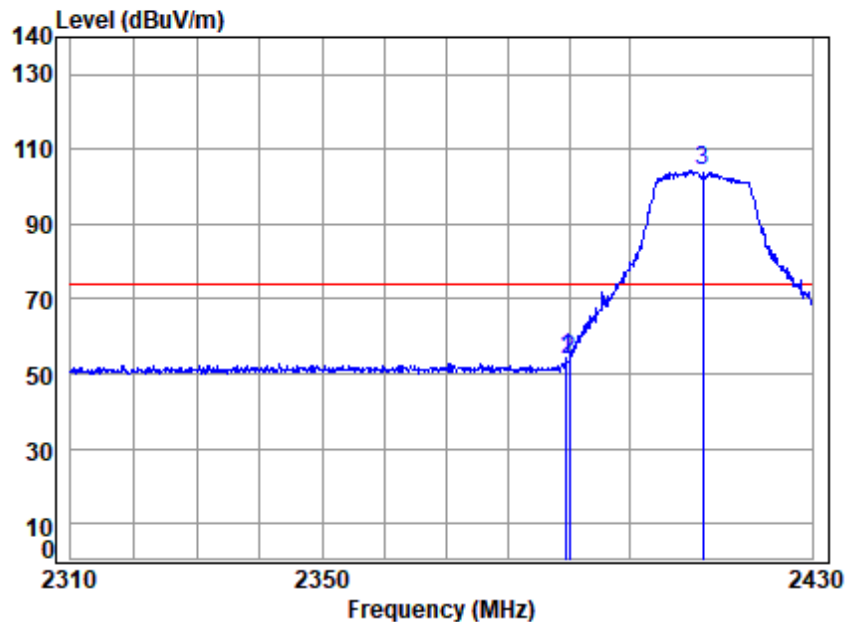


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2462 Band edge
: 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2462.000	16.24	28.90	32.74	84.98	97.38	54.00	43.38	Average
2	2483.500	16.28	28.90	32.73	27.53	39.98	54.00	-14.02	Average
3	2487.857	16.28	28.90	32.73	27.93	40.38	54.00	-13.62	Average



Test Mode: 06; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

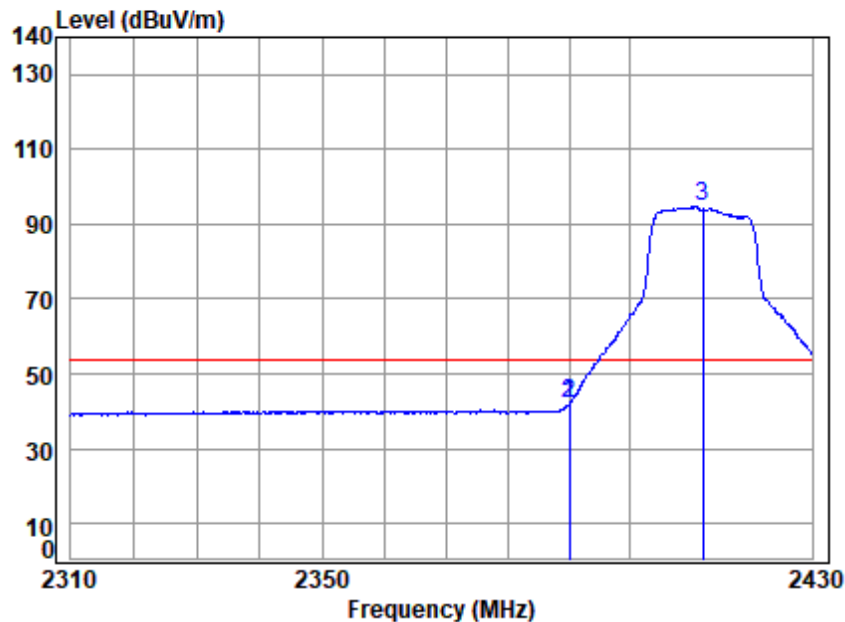


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2412 Band edge
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.605	16.13	29.10	32.78	41.72	54.17	74.00	-19.83	peak
2	2390.000	16.13	29.10	32.78	41.30	53.75	74.00	-20.25	peak
3 p	2412.000	16.17	29.05	32.77	91.86	104.31	74.00	30.31	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

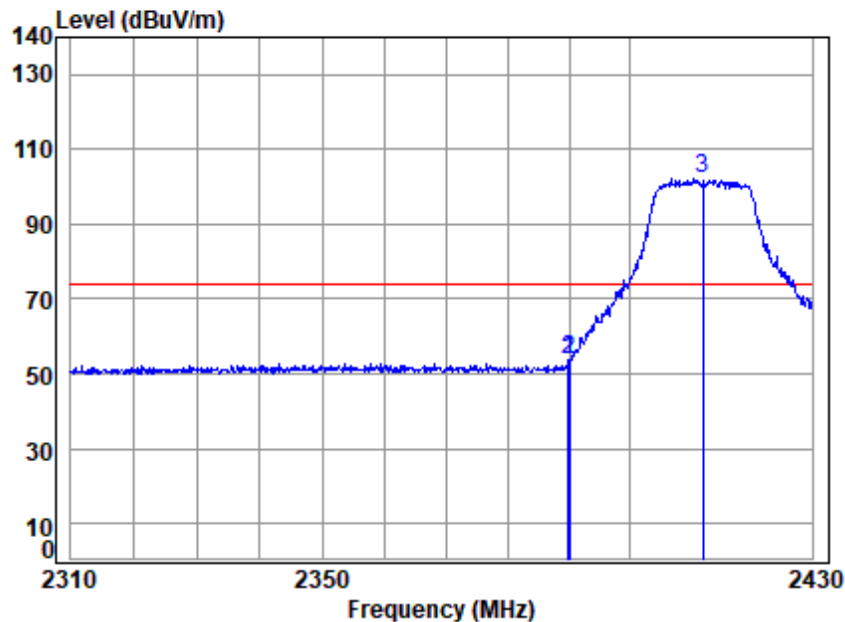


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2412 Band edge
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	16.13	29.10	32.78	29.48	41.93	54.00	-12.07	Average
2	2390.000	16.13	29.10	32.78	29.48	41.93	54.00	-12.07	Average
3 q	2412.000	16.17	29.05	32.77	82.31	94.76	54.00	40.76	Average



Test Mode: 06; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

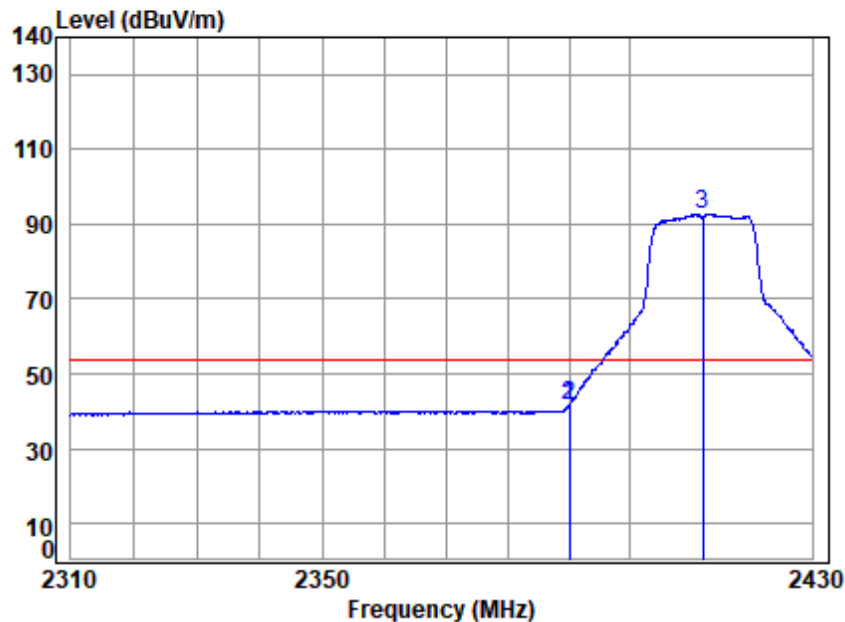


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2412 Band edge
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	16.13	29.10	32.78	41.30	53.75	74.00	-20.25	Peak
2	2390.000	16.13	29.10	32.78	41.17	53.62	74.00	-20.38	Peak
3 p	2412.000	16.17	29.05	32.77	89.54	101.99	74.00	27.99	Peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low

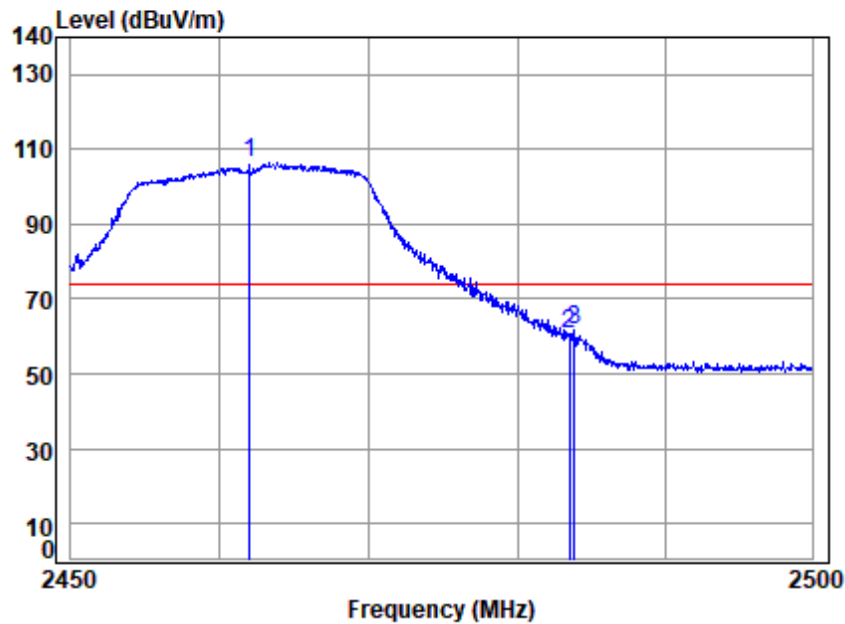


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2412 Band edge
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	16.13	29.10	32.78	28.97	41.42	54.00	-12.58	Average
2	2390.000	16.13	29.10	32.78	28.97	41.42	54.00	-12.58	Average
3 q	2412.000	16.17	29.05	32.77	80.39	92.84	54.00	38.84	Average



Test Mode: 06; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

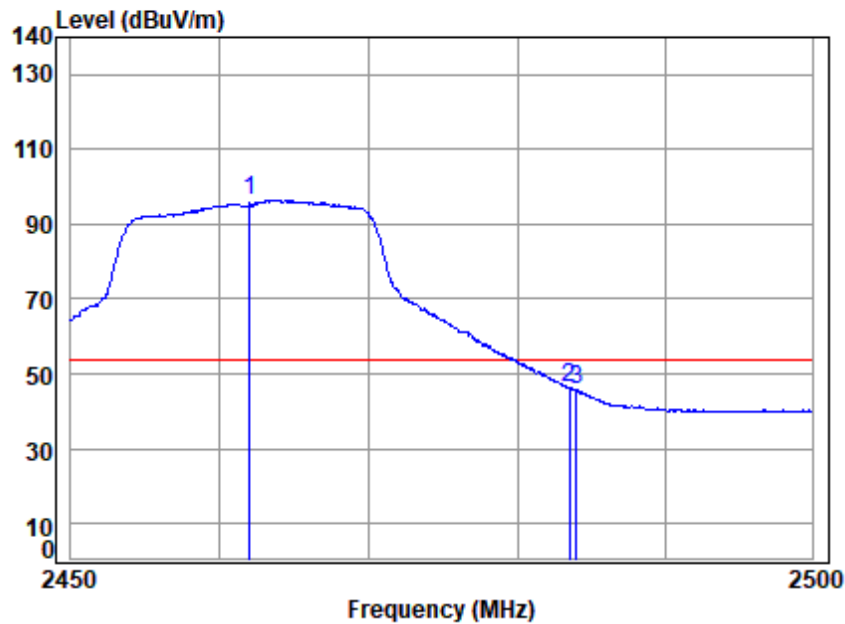


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2462 Band edge
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	16.24	28.90	32.74	94.12	106.52	74.00	32.52	peak
2	2483.500	16.28	28.90	32.73	48.03	60.48	74.00	-13.52	peak
3	2483.840	16.28	28.90	32.73	49.31	61.76	74.00	-12.24	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High

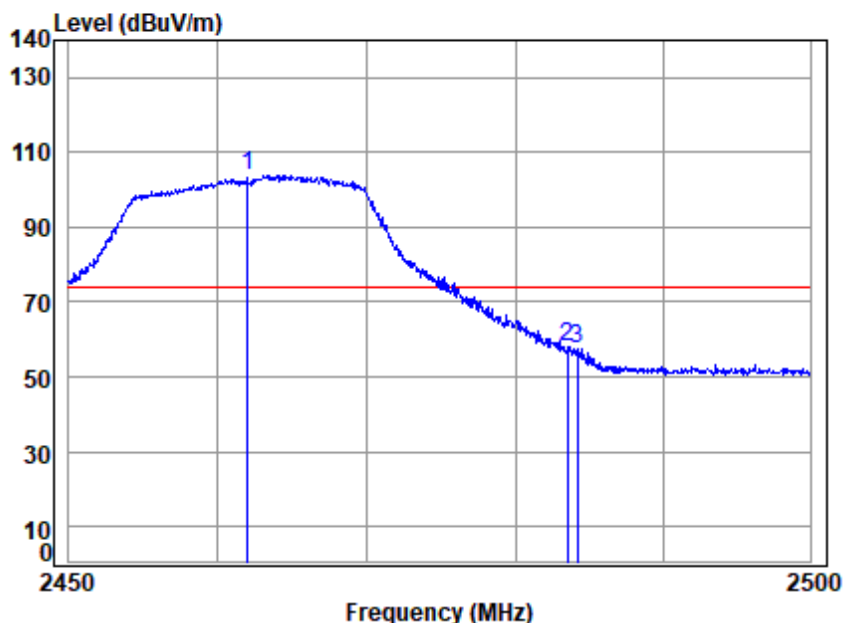


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2462 Band edge
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	2462.000	16.24	28.90	32.74	84.02	96.42	54.00	42.42 Average
2	2483.500	16.28	28.90	32.73	33.86	46.31	54.00	-7.69 Average
3	2483.990	16.28	28.90	32.73	33.55	46.00	54.00	-8.00 Average



Test Mode: 06; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High

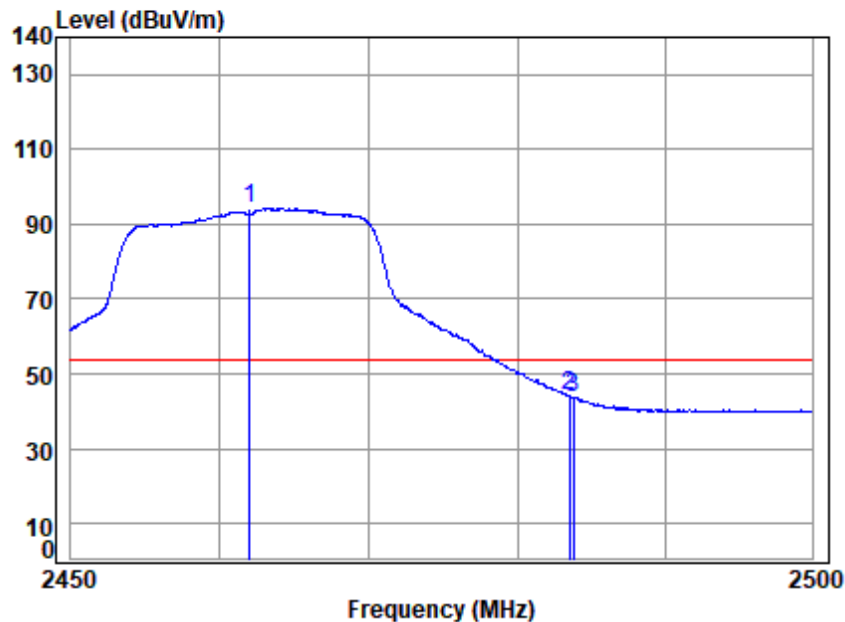


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2462 Band edge
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	16.24	28.90	32.74	91.60	104.00	74.00	30.00	Peak
2	2483.500	16.28	28.90	32.73	45.49	57.94	74.00	-16.06	Peak
3	2484.191	16.28	28.90	32.73	45.08	57.53	74.00	-16.47	Peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High

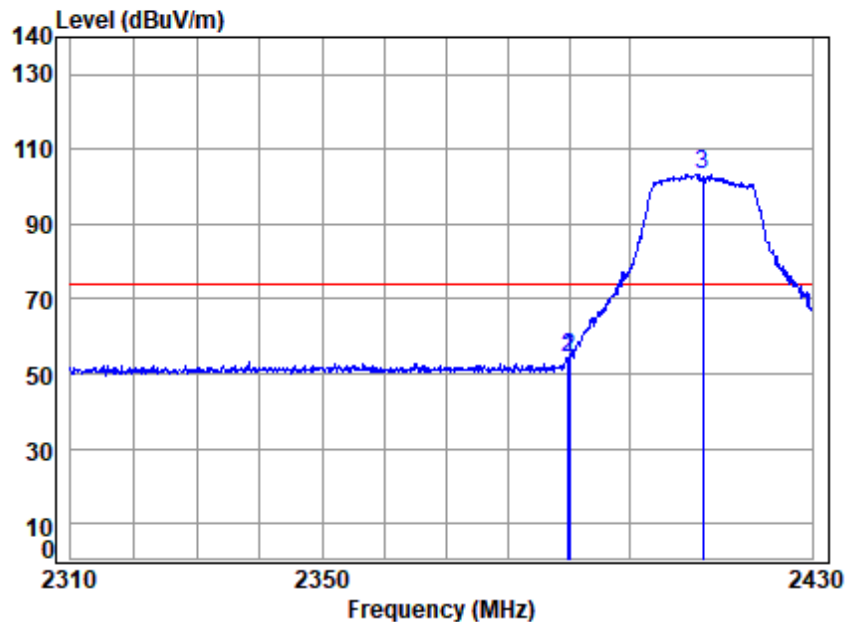


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2462 Band edge
: 2.4G WIFI 11G

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	2462.000	16.24	28.90	32.74	81.91	94.31	54.00	40.31 Average
2	2483.500	16.28	28.90	32.73	31.54	43.99	54.00	-10.01 Average
3	2483.790	16.28	28.90	32.73	31.23	43.68	54.00	-10.32 Average



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

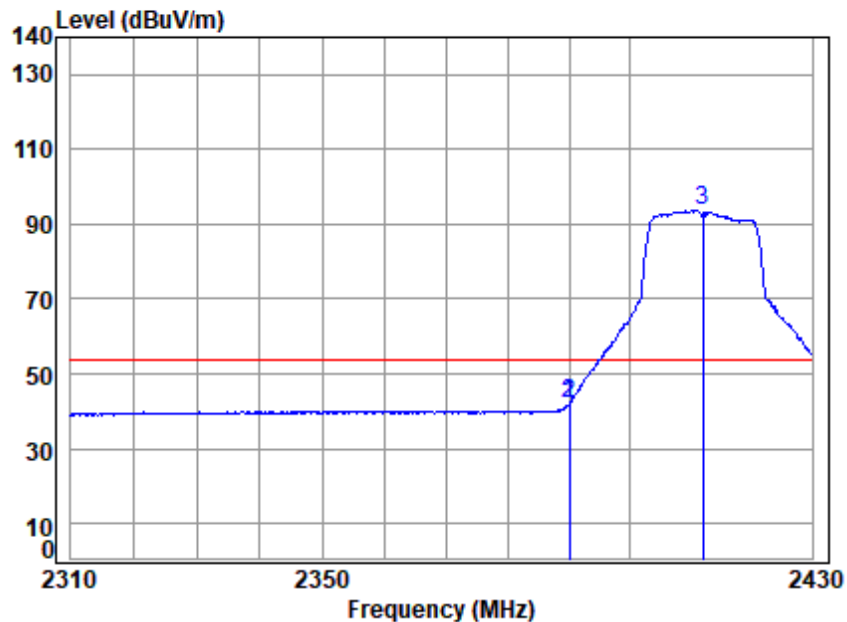


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	16.13	29.10	32.78	42.04	54.49	74.00	-19.51	peak
2	2390.000	16.13	29.10	32.78	41.84	54.29	74.00	-19.71	peak
3 p	2412.000	16.17	29.05	32.77	90.84	103.29	74.00	29.29	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

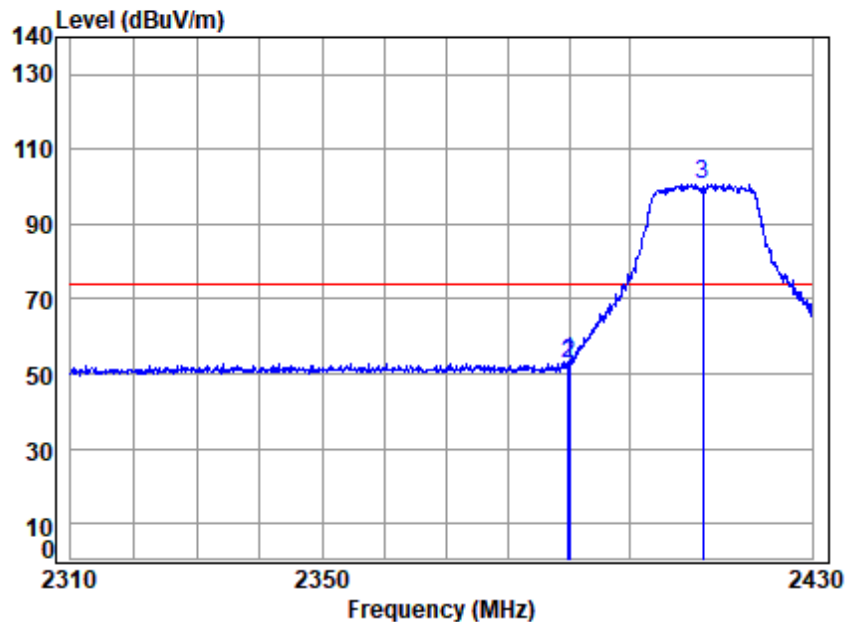


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	16.13	29.10	32.78	29.47	41.92	54.00	-12.08	Average
2	2390.000	16.13	29.10	32.78	29.47	41.92	54.00	-12.08	Average
3 q	2412.000	16.17	29.05	32.77	81.21	93.66	54.00	39.66	Average



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

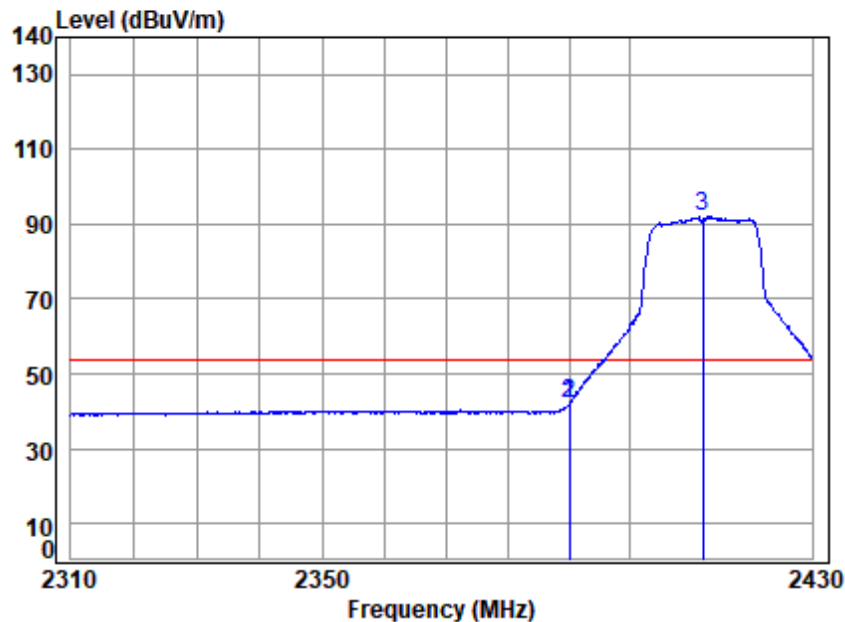


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.847	16.13	29.10	32.78	40.94	53.39	74.00	-20.61	Peak
2	2390.000	16.13	29.10	32.78	40.30	52.75	74.00	-21.25	Peak
3 p	2412.000	16.17	29.05	32.77	88.23	100.68	74.00	26.68	Peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

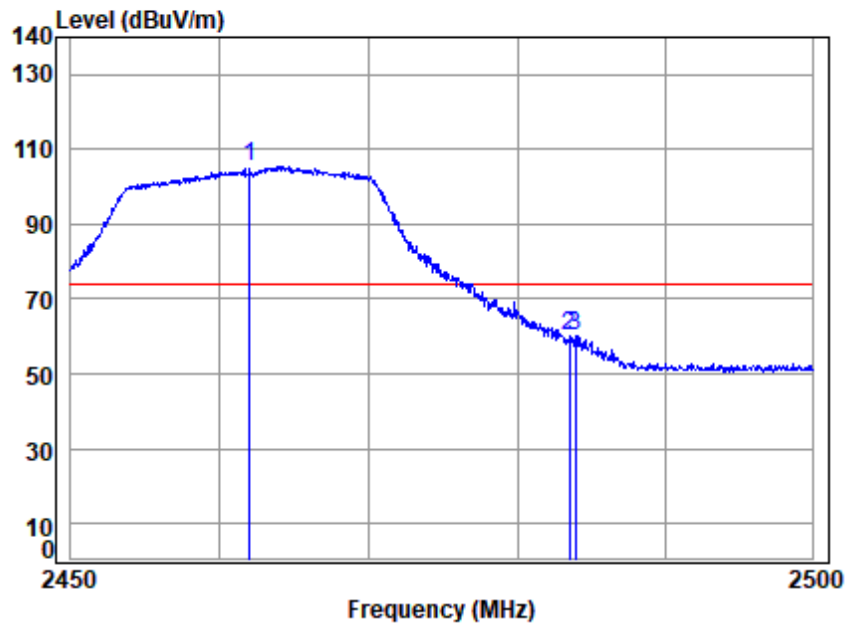


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2412 Band edge
: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	16.13	29.10	32.78	29.69	42.14	54.00	-11.86	Average
2	2390.000	16.13	29.10	32.78	29.69	42.14	54.00	-11.86	Average
3 q	2412.000	16.17	29.05	32.77	79.43	91.88	54.00	37.88	Average



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

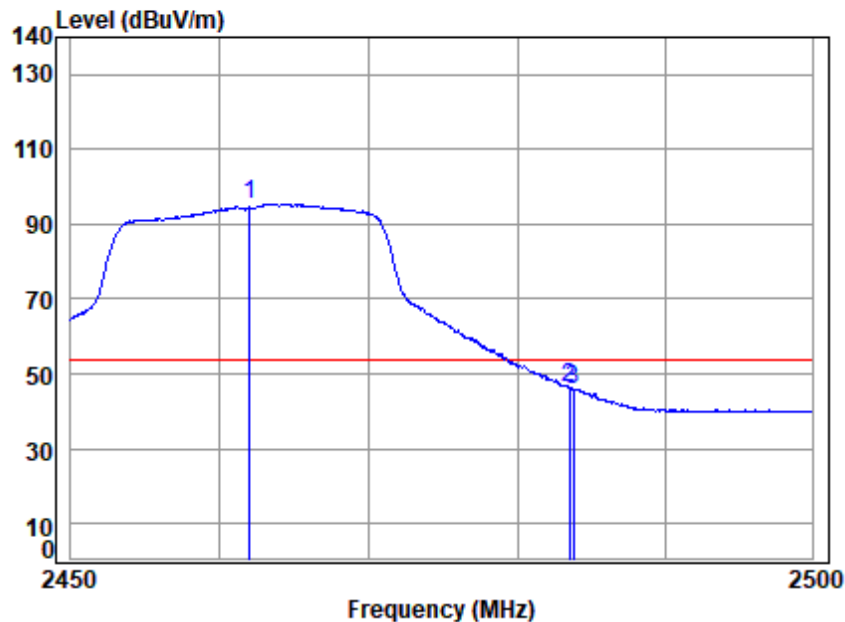


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2462.000	16.24	28.90	32.74	93.18	105.58	74.00	31.58	peak
2	2483.500	16.28	28.90	32.73	47.45	59.90	74.00	-14.10	peak
3	2483.940	16.28	28.90	32.73	47.81	60.26	74.00	-13.74	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

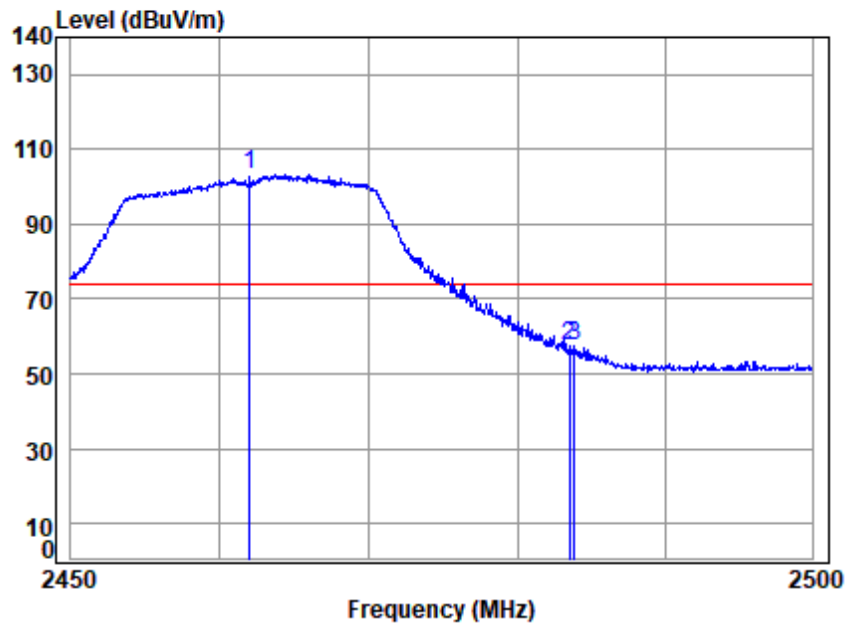


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q 2462.000	16.24	28.90	32.74	83.05	95.45	54.00	41.45	Average
2	2483.500	16.28	28.90	32.73	34.06	46.51	54.00	-7.49	Average
3	2483.790	16.28	28.90	32.73	33.53	45.98	54.00	-8.02	Average



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

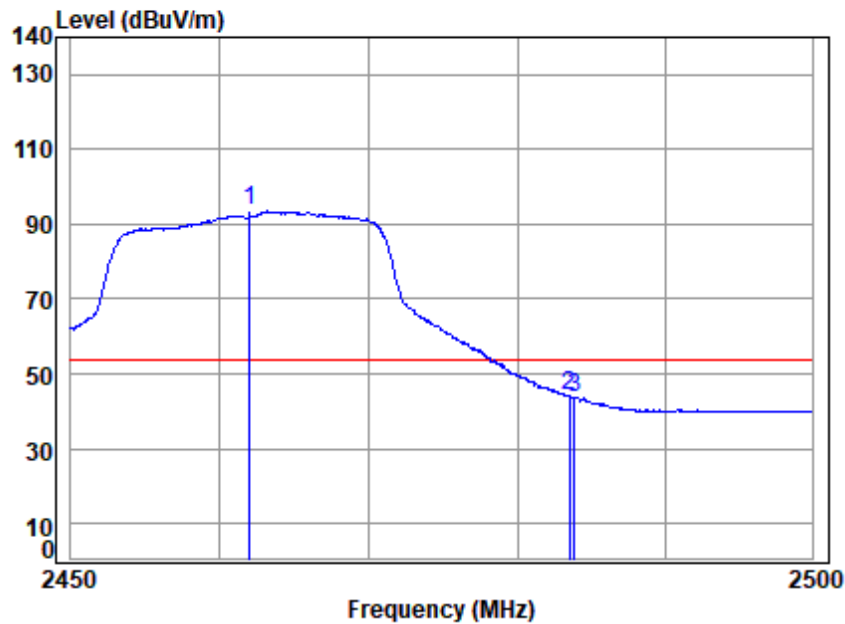


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	2462.000	16.24	28.90	32.74	90.85	103.25	74.00	29.25 Peak
2	2483.500	16.28	28.90	32.73	45.19	57.64	74.00	-16.36 Peak
3	2483.890	16.28	28.90	32.73	44.90	57.35	74.00	-16.65 Peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

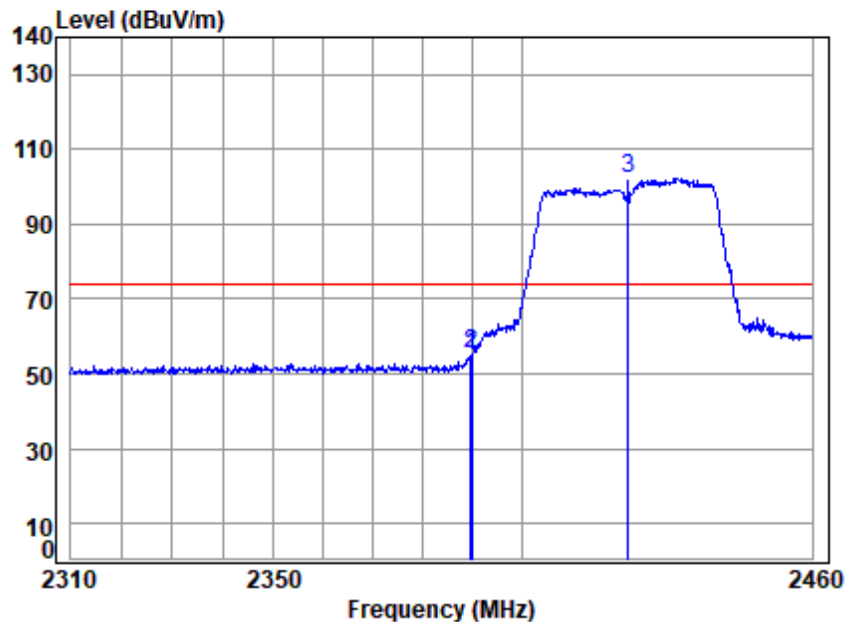


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2462 Band edge
: 2.4G WIFI 11N20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	2462.000	16.24	28.90	32.74	81.13	93.53	54.00	39.53 Average
2	2483.500	16.28	28.90	32.73	31.61	44.06	54.00	-9.94 Average
3	2483.890	16.28	28.90	32.73	31.37	43.82	54.00	-10.18 Average



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

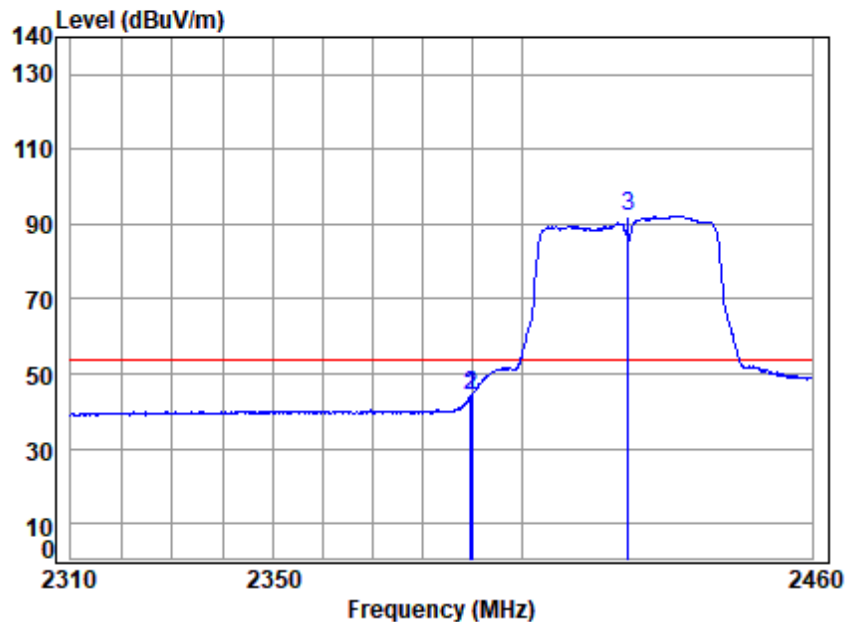


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	16.13	29.10	32.78	42.51	54.96	74.00	-19.04	peak
2	2390.000	16.13	29.10	32.78	42.90	55.35	74.00	-18.65	peak
3 p	2422.000	16.18	29.01	32.76	89.98	102.41	74.00	28.41	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

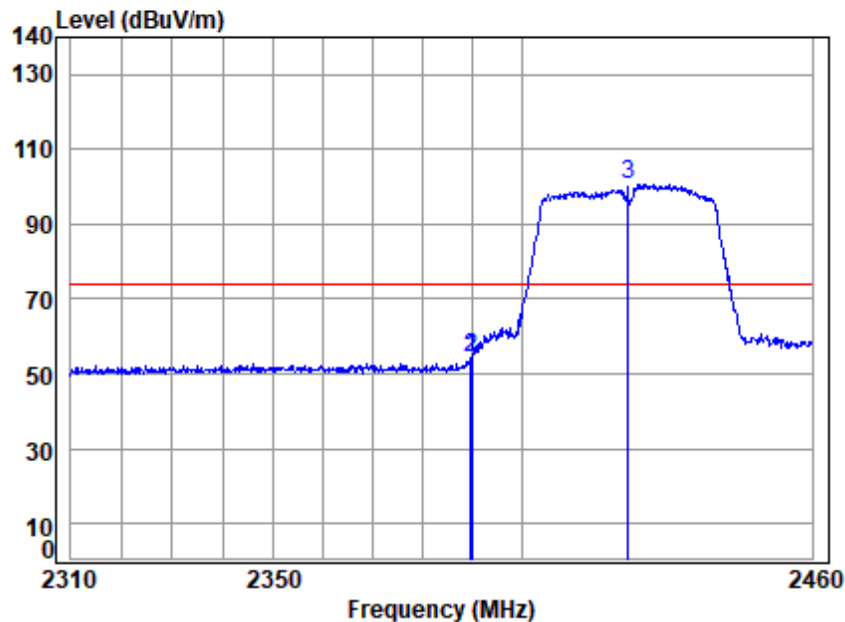


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	16.13	29.10	32.78	31.56	44.01	54.00	-9.99	Average
2	2390.000	16.13	29.10	32.78	31.92	44.37	54.00	-9.63	Average
3 q	2422.000	16.18	29.01	32.76	79.90	92.33	54.00	38.33	Average



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

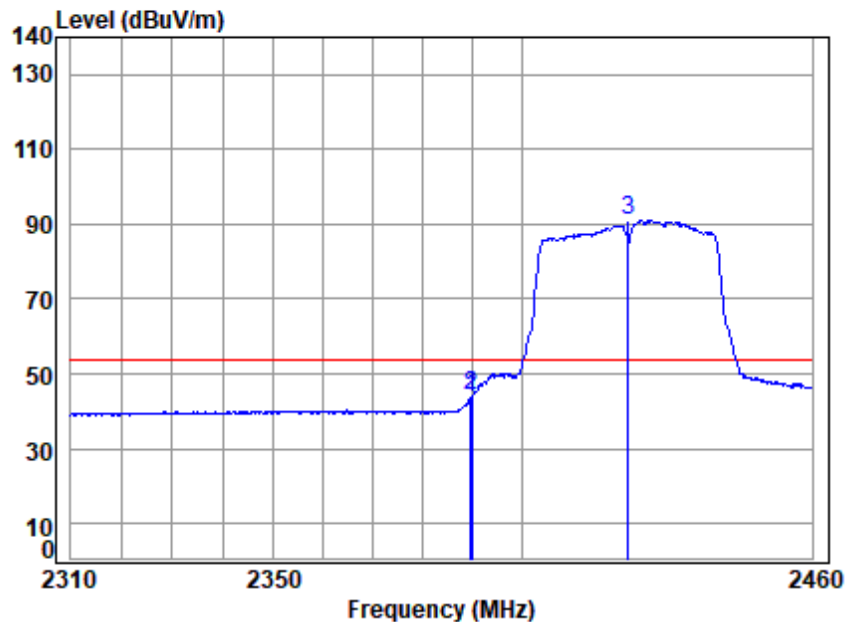


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.677	16.13	29.10	32.78	41.93	54.38	74.00	-19.62 Peak
2	2390.000	16.13	29.10	32.78	41.60	54.05	74.00	-19.95 Peak
3 p	2422.000	16.18	29.01	32.76	88.43	100.86	74.00	26.86 Peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

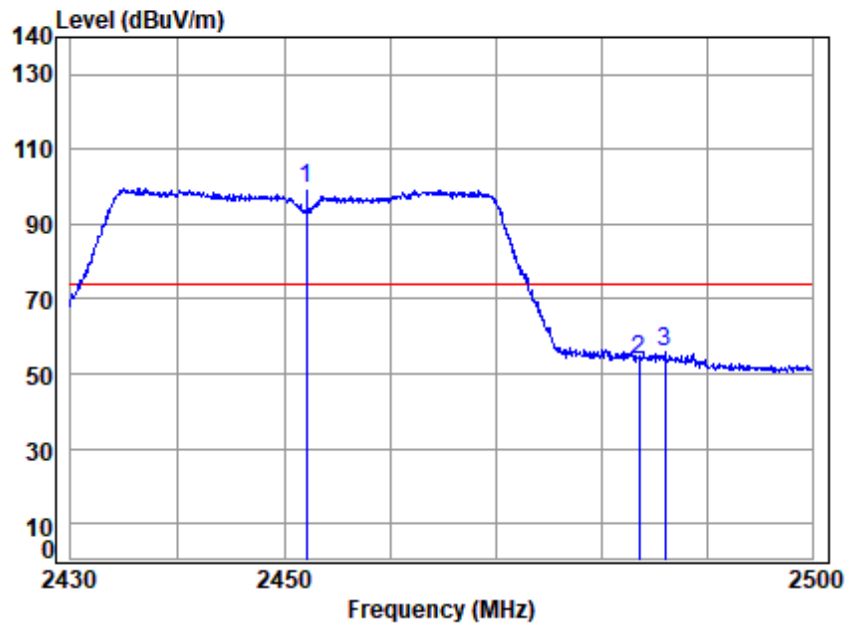


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2422 Band edge
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	16.13	29.10	32.78	31.21	43.66	54.00	-10.34	Average
2	2390.000	16.13	29.10	32.78	31.73	44.18	54.00	-9.82	Average
3 q	2422.000	16.18	29.01	32.76	78.71	91.14	54.00	37.14	Average



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

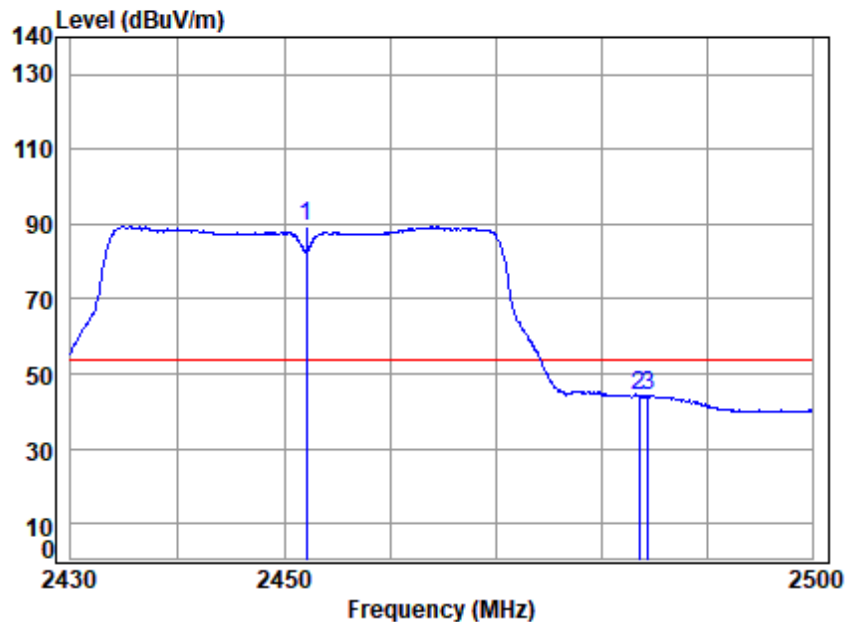


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2452.000	16.23	28.90	32.75	87.22	99.60	74.00	25.60	peak
2	2483.500	16.28	28.90	32.73	41.40	53.85	74.00	-20.15	peak
3	2485.982	16.28	28.90	32.73	43.40	55.85	74.00	-18.15	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

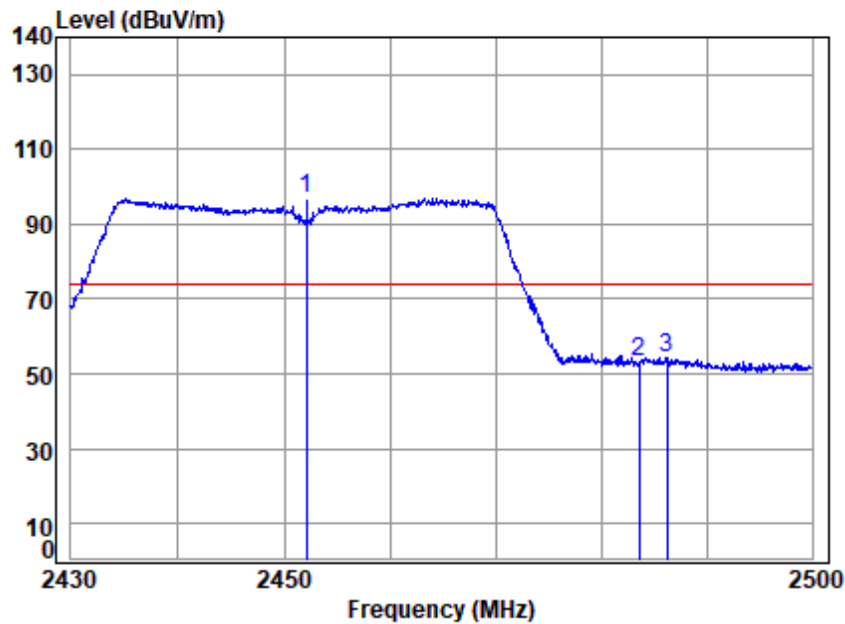


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q 2452.000	16.23	28.90	32.75	77.08	89.46	54.00	35.46	Average
2	2483.500	16.28	28.90	32.73	31.89	44.34	54.00	-9.66	Average
3	2484.358	16.28	28.90	32.73	31.86	44.31	54.00	-9.69	Average



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High

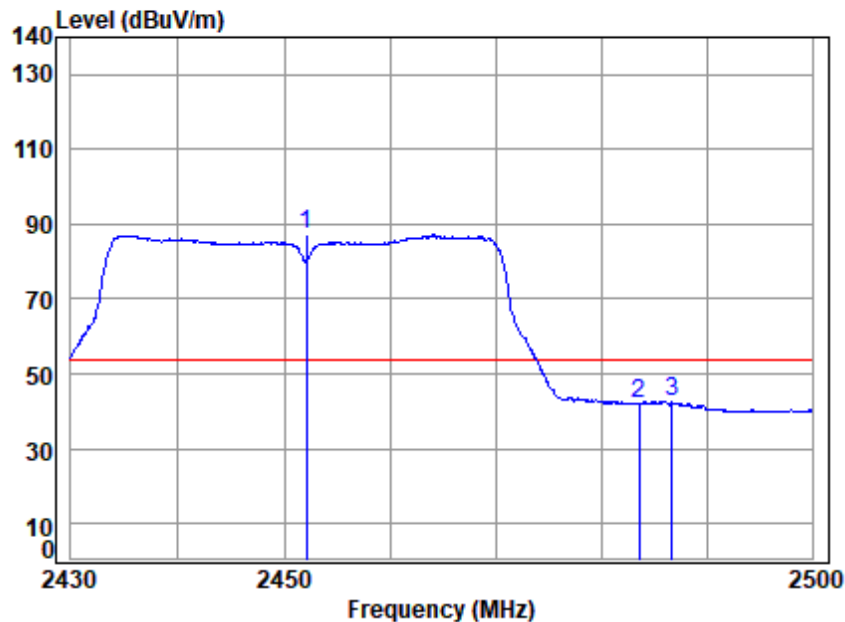


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2452.000	16.23	28.90	32.75	84.76	97.14	74.00	23.14	Peak
2	2483.500	16.28	28.90	32.73	40.80	53.25	74.00	-20.75	Peak
3	2486.194	16.28	28.90	32.73	41.88	54.33	74.00	-19.67	Peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2452 Band edge
: 2.4G WIFI 11N40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	2452.000	16.23	28.90	32.75	74.84	87.22	54.00	33.22	Average
2	2483.500	16.28	28.90	32.73	29.35	41.80	54.00	-12.20	Average
3	2486.617	16.28	28.90	32.73	30.18	42.63	54.00	-11.37	Average



7.3 Radiated Spurious Emissions Below 1GHz

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

Test Method: ANSI C63.10 (2020) 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: 23.4 °C

Humidity: 42.5 % RH

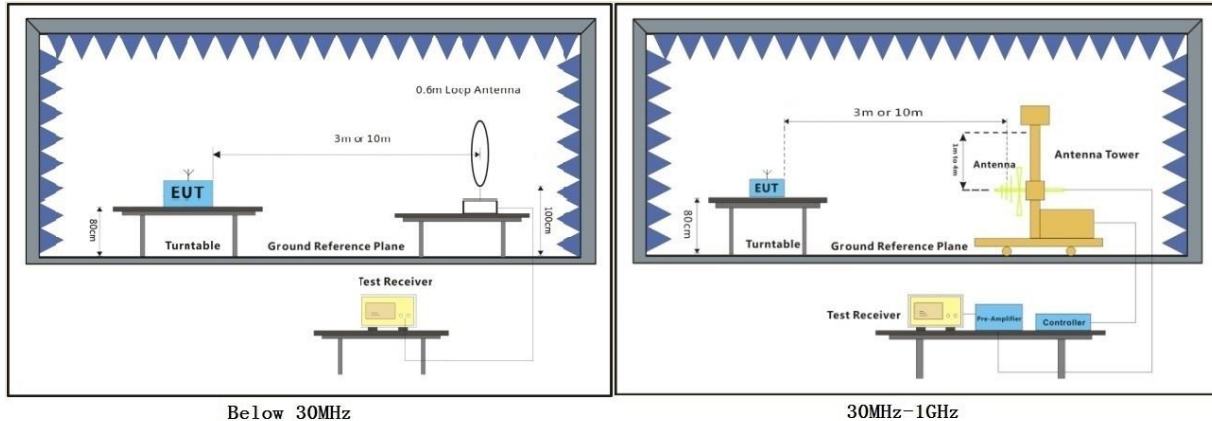
Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	05	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	06	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.



7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

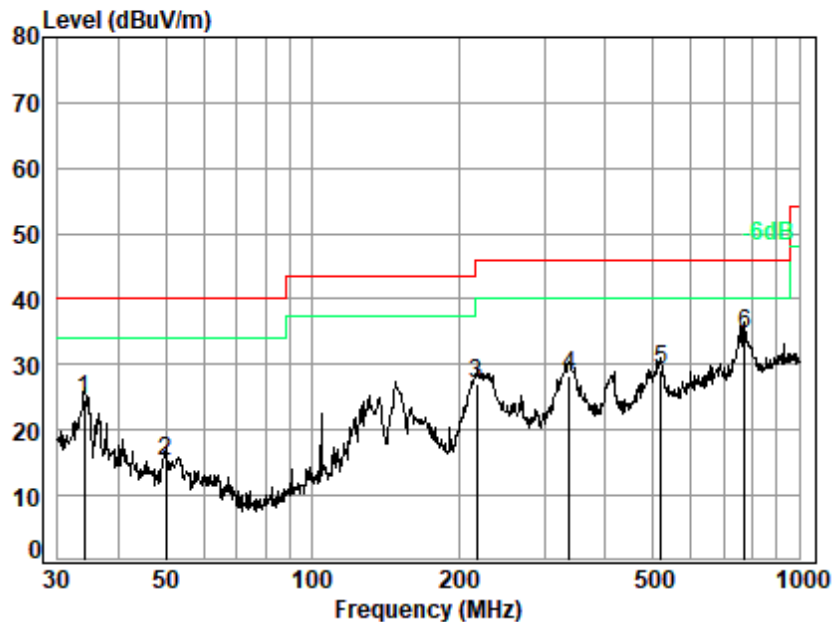
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna,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



Test Mode: 06; Polarity: Horizontal

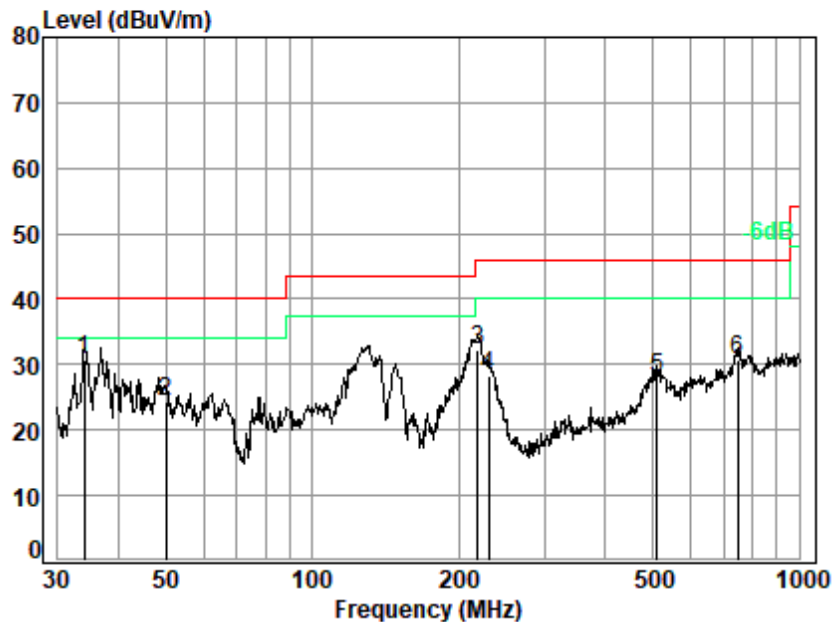


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03037AT
Test Mode: 06

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	34.037	19.41	0.72	27.65	32.02	24.50	40.00	-15.50 QP
2	50.057	12.75	0.86	27.63	29.22	15.20	40.00	-24.80 QP
3	217.544	14.98	1.85	27.74	38.00	27.09	46.00	-18.91 QP
4	337.216	18.93	2.35	27.60	34.72	28.40	46.00	-17.60 QP
5	520.888	23.31	2.99	27.98	30.81	29.13	46.00	-16.87 QP
6 q	774.158	26.84	3.78	27.66	31.60	34.56	46.00	-11.44 QP



Test Mode: 06; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03037AT
Test Mode: 06

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	34.037	19.41	0.72	27.65	38.15	30.63	40.00	-9.37 QP
2		50.057	12.75	0.86	27.63	38.48	24.46	40.00	-15.54 QP
3		218.309	15.03	1.86	27.74	43.09	32.24	46.00	-13.76 QP
4		230.099	16.46	1.91	27.70	37.65	28.32	46.00	-17.68 QP
5		511.835	23.22	2.96	27.96	29.68	27.90	46.00	-18.10 QP
6		747.483	26.43	3.70	27.72	28.19	30.60	46.00	-15.40 QP



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SZEMC-TRF-01 Rev. A/1

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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 (2020) 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: 23.5 °C

Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	05	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	06	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.



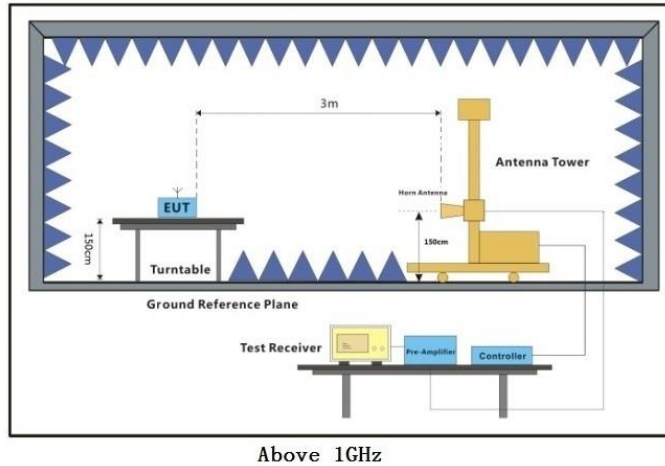
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Laboratory

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

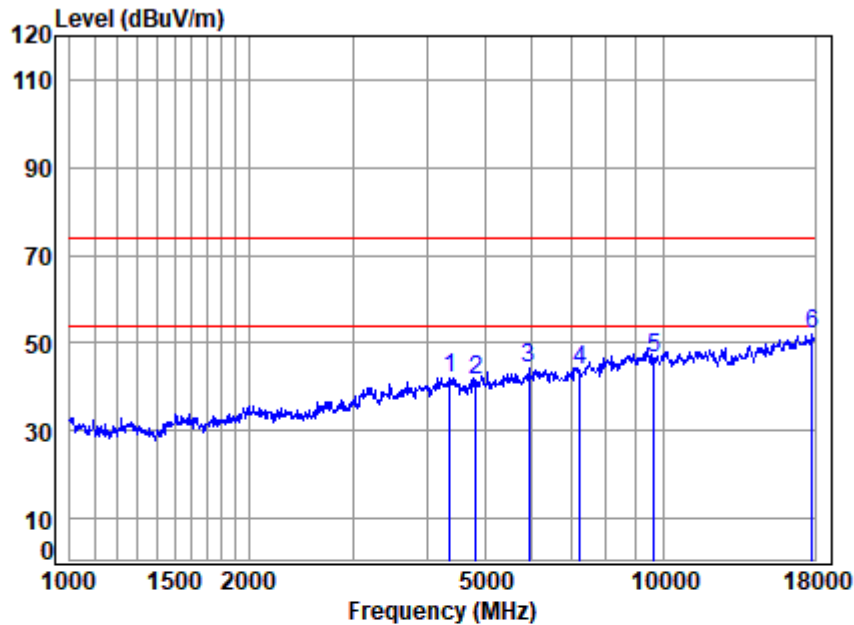
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $\leq 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



Test Mode: 06; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

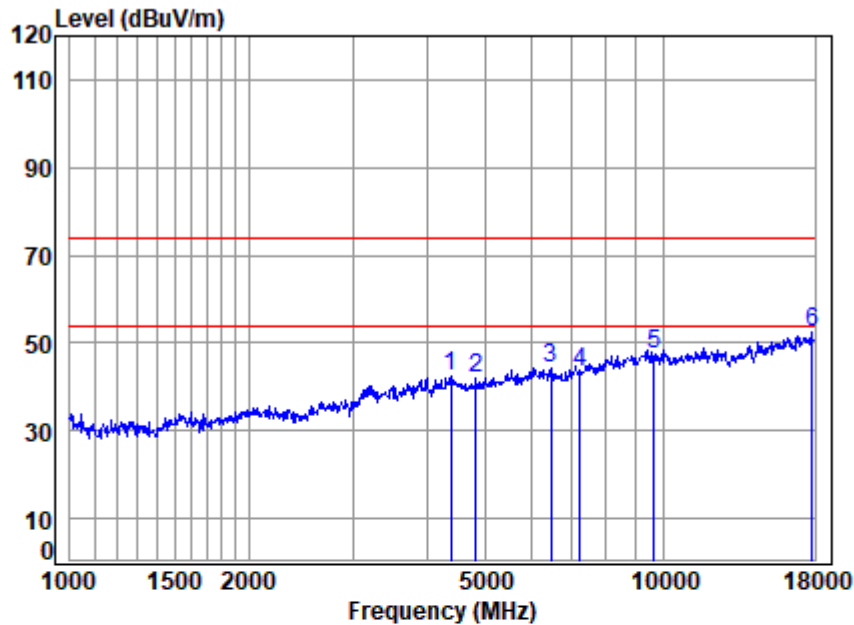


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2412 TX RSE
: 2.4G WIFI 11B

	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	4367.058	7.10	34.54	54.26	54.65	42.03	74.00	-31.97	peak
2	4824.000	7.43	34.40	54.22	53.83	41.44	74.00	-32.56	peak
3	5932.638	8.83	34.67	53.17	54.02	44.35	74.00	-29.65	peak
4	7236.000	8.49	35.70	53.18	52.92	43.93	74.00	-30.07	peak
5	9648.000	10.72	37.50	53.34	51.46	46.34	74.00	-27.66	peak
6	p17844.590	11.41	43.90	52.48	49.33	52.16	74.00	-21.84	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low

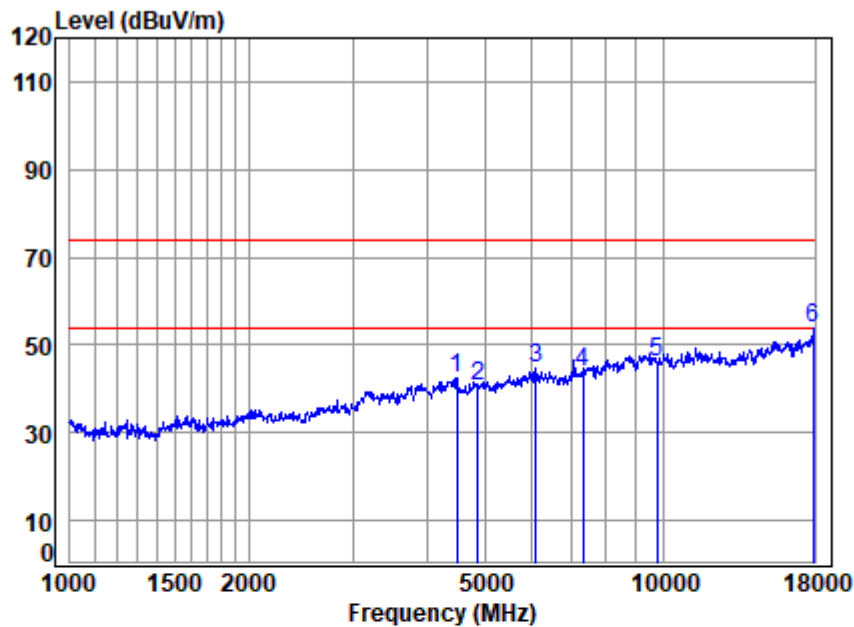


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2412 TX RSE
: 2.4G WIFI 11B

	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	4379.699	7.11	34.64	54.26	54.97	42.46	74.00	-31.54	peak
2	4824.000	7.43	34.40	54.22	54.27	41.88	74.00	-32.12	peak
3	6470.026	8.88	35.54	53.15	52.80	44.07	74.00	-29.93	peak
4	7236.000	8.49	35.70	53.18	52.40	43.41	74.00	-30.59	peak
5	9648.000	10.72	37.50	53.34	52.79	47.67	74.00	-26.33	peak
6	p17793.090	11.38	43.89	52.50	49.80	52.57	74.00	-21.43	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

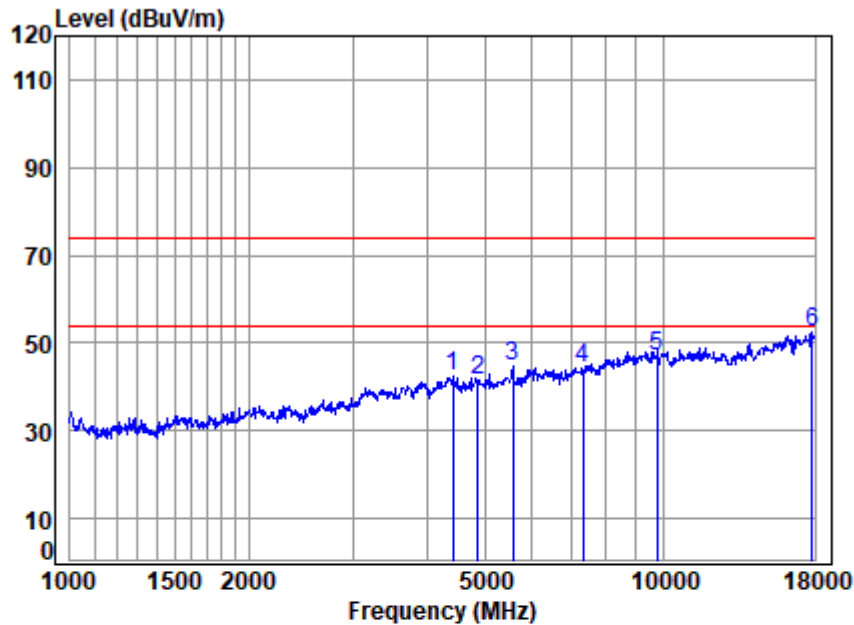


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2437 TX RSE
: 2.4G WIFI 11B

	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	4495.125	7.17	33.66	54.25	56.05	42.63	74.00	-31.37	peak
2	4874.000	7.47	34.60	54.21	52.85	40.71	74.00	-33.29	peak
3	6106.616	8.92	35.07	53.11	53.61	44.49	74.00	-29.51	peak
4	7311.000	8.47	35.70	53.17	52.60	43.60	74.00	-30.40	peak
5	9748.000	10.69	37.40	53.30	51.42	46.21	74.00	-27.79	peak
6	p17896.250	11.44	43.90	52.45	50.72	53.61	74.00	-20.39	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

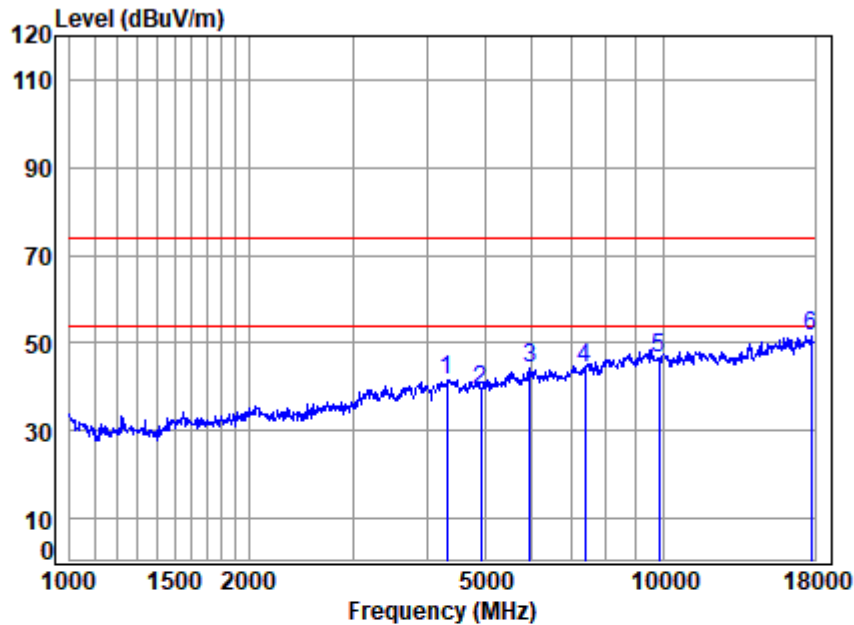


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2437 TX RSE
: 2.4G WIFI 11B

	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	4417.841	7.13	34.59	54.26	54.99	42.45	74.00	-31.55	peak
2	4874.000	7.47	34.60	54.21	53.60	41.46	74.00	-32.54	peak
3	5583.251	8.29	34.70	53.53	55.35	44.81	74.00	-29.19	peak
4	7311.000	8.47	35.70	53.17	53.04	44.04	74.00	-29.96	peak
5	9748.000	10.69	37.40	53.30	52.28	47.07	74.00	-26.93	peak
6	p17844.590	11.41	43.90	52.48	49.59	52.42	74.00	-21.58	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High

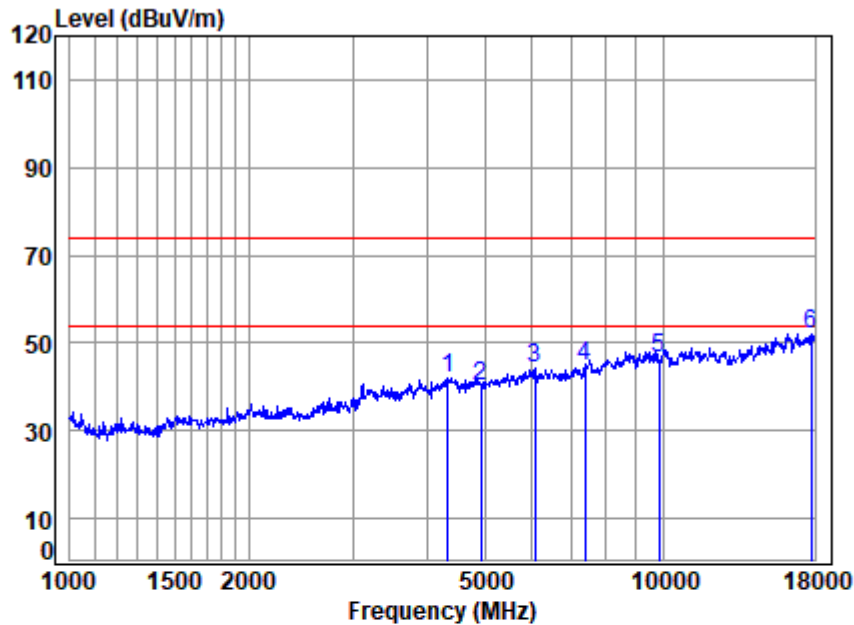


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2462 TX RSE
: 2.4G WIFI 11B

	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	4316.859	7.07	34.13	54.27	54.77	41.70	74.00	-32.30	peak
2	4924.000	7.50	34.65	54.21	51.47	39.41	74.00	-34.59	peak
3	5967.033	8.88	34.77	53.13	53.58	44.10	74.00	-29.90	peak
4	7386.000	8.44	35.77	53.16	53.00	44.05	74.00	-29.95	peak
5	9848.000	10.66	37.20	53.26	51.75	46.35	74.00	-27.65	peak
6	p17741.740	11.35	43.84	52.53	49.05	51.71	74.00	-22.29	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High

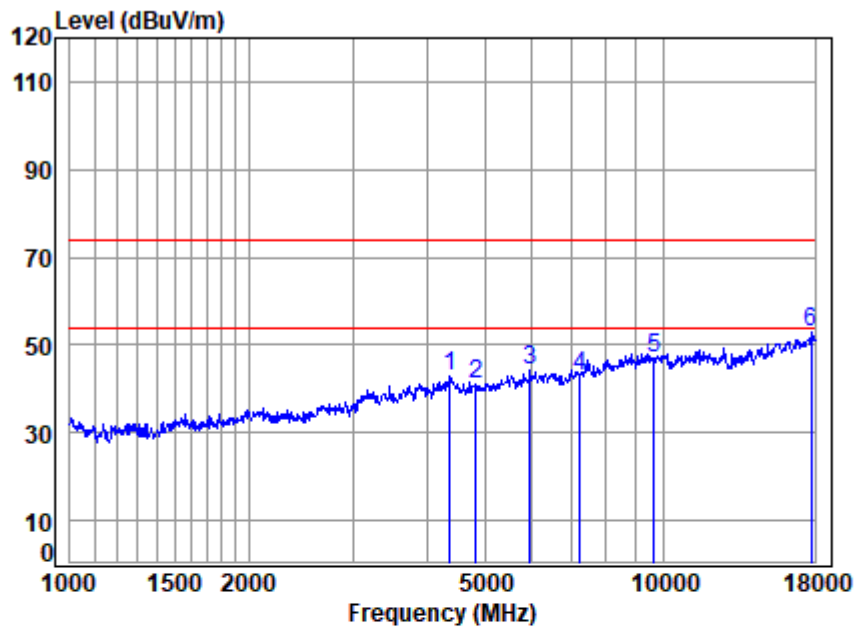


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2462 TX RSE
: 2.4G WIFI 11B

	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	4329.354	7.08	34.23	54.26	55.10	42.15	74.00	-31.85	peak
2	4924.000	7.50	34.65	54.21	52.05	39.99	74.00	-34.01	peak
3	6071.417	8.92	35.04	53.11	53.21	44.06	74.00	-29.94	peak
4	7386.000	8.44	35.77	53.16	53.81	44.86	74.00	-29.14	peak
5	9848.000	10.66	37.20	53.26	51.88	46.48	74.00	-27.52	peak
6	p17741.740	11.35	43.84	52.53	49.43	52.09	74.00	-21.91	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

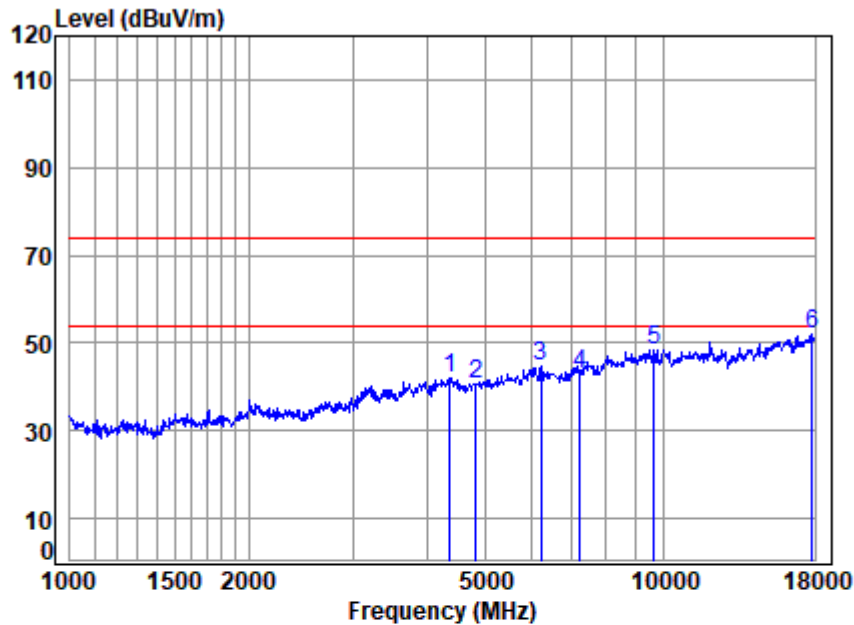


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4367.058	7.10	34.54	54.26	55.34	42.72	74.00	-31.28 peak
2	4824.000	7.43	34.40	54.22	53.62	41.23	74.00	-32.77 peak
3	5949.811	8.86	34.70	53.15	54.01	44.42	74.00	-29.58 peak
4	7236.000	8.49	35.70	53.18	51.74	42.75	74.00	-31.25 peak
5	9648.000	10.72	37.50	53.34	52.31	47.19	74.00	-26.81 peak
6	p17741.740	11.35	43.84	52.53	50.30	52.96	74.00	-21.04 peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

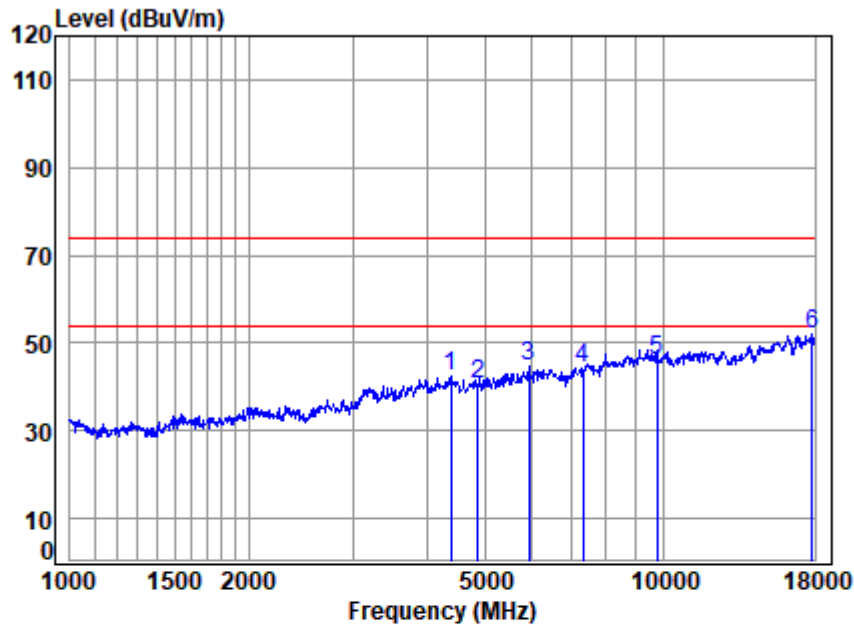


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2412 TX RSE
: 2.4G WIFI 11N20

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4367.058	7.10	34.54	54.26	54.76	42.14	74.00	-31.86 peak
2	4824.000	7.43	34.40	54.22	53.12	40.73	74.00	-33.27 peak
3	6213.441	8.91	34.75	53.12	53.99	44.53	74.00	-29.47 peak
4	7236.000	8.49	35.70	53.18	51.66	42.67	74.00	-31.33 peak
5	9648.000	10.72	37.50	53.34	53.31	48.19	74.00	-25.81 peak
6	p17844.590	11.41	43.90	52.48	49.38	52.21	74.00	-21.79 peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

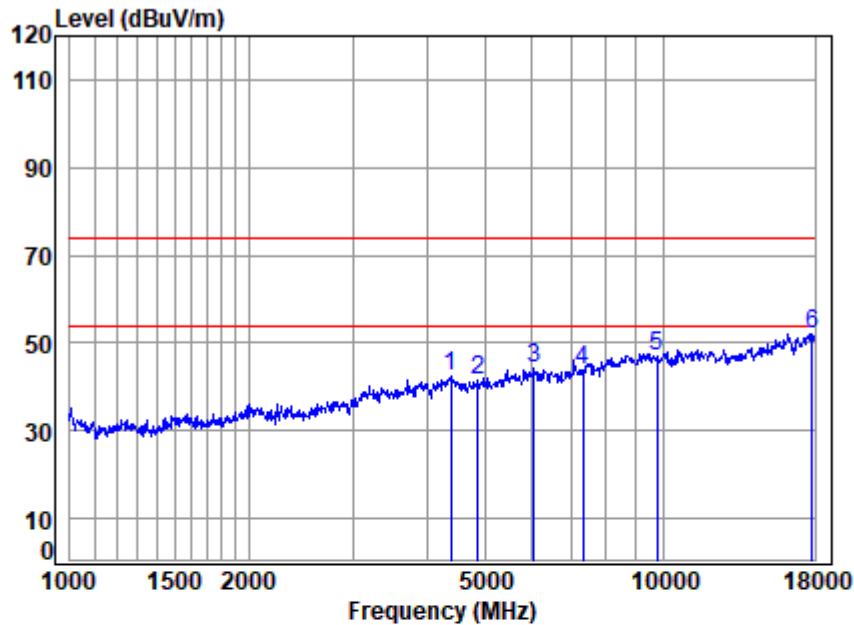


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N20

	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	4392.376	7.11	34.74	54.26	54.84	42.43	74.00	-31.57	peak
2	4874.000	7.47	34.60	54.21	52.73	40.59	74.00	-33.41	peak
3	5932.638	8.83	34.67	53.17	54.20	44.53	74.00	-29.47	peak
4	7311.000	8.47	35.70	53.17	53.29	44.29	74.00	-29.71	peak
5	9748.000	10.69	37.40	53.30	51.28	46.07	74.00	-27.93	peak
6	p17844.590	11.41	43.90	52.48	49.02	51.85	74.00	-22.15	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

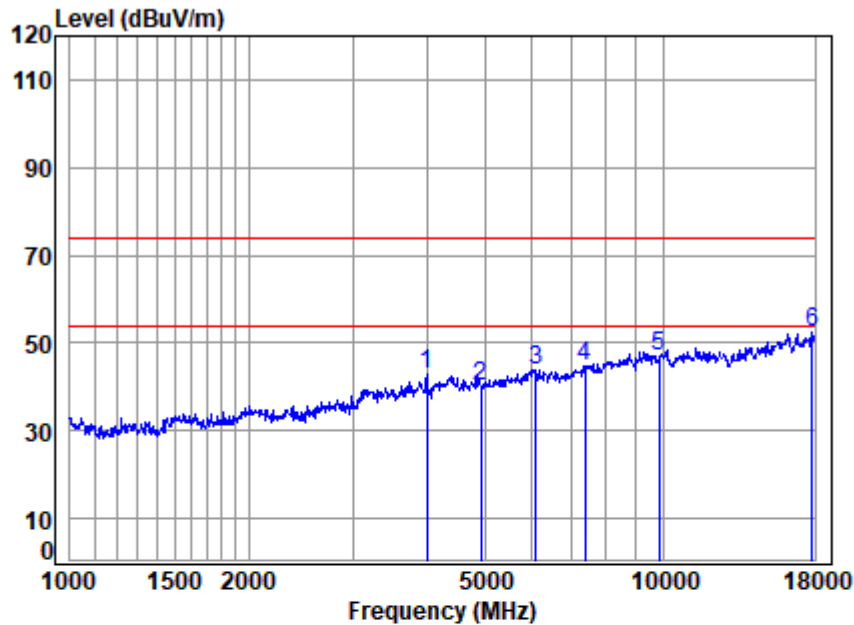


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N20

	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	4379.699	7.11	34.64	54.26	54.90	42.39	74.00	-31.61	peak
2	4874.000	7.47	34.60	54.21	53.72	41.58	74.00	-32.42	peak
3	6053.894	8.92	35.01	53.11	53.28	44.10	74.00	-29.90	peak
4	7311.000	8.47	35.70	53.17	52.96	43.96	74.00	-30.04	peak
5	9748.000	10.69	37.40	53.30	52.08	46.87	74.00	-27.13	peak
6	p17793.090	11.38	43.89	52.50	49.40	52.17	74.00	-21.83	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High

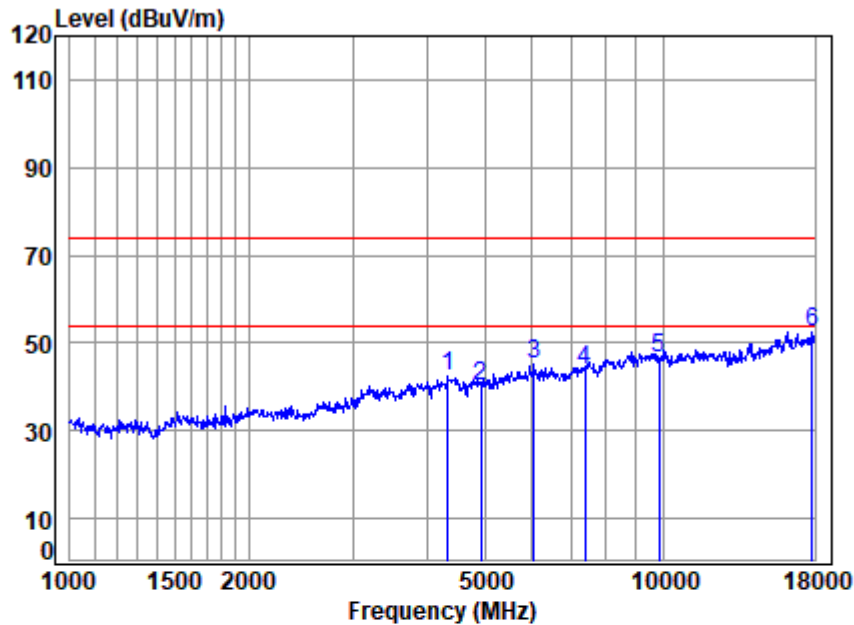


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2462 TX RSE
: 2.4G WIFI 11N20

	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	3992.781	6.89	33.07	54.30	57.40	43.06	74.00	-30.94	peak
2	4924.000	7.50	34.65	54.21	52.40	40.34	74.00	-33.66	peak
3	6106.616	8.92	35.07	53.11	52.92	43.80	74.00	-30.20	peak
4	7386.000	8.44	35.77	53.16	53.76	44.81	74.00	-29.19	peak
5	9848.000	10.66	37.20	53.26	52.47	47.07	74.00	-26.93	peak
6	p17793.090	11.38	43.89	52.50	49.80	52.57	74.00	-21.43	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High

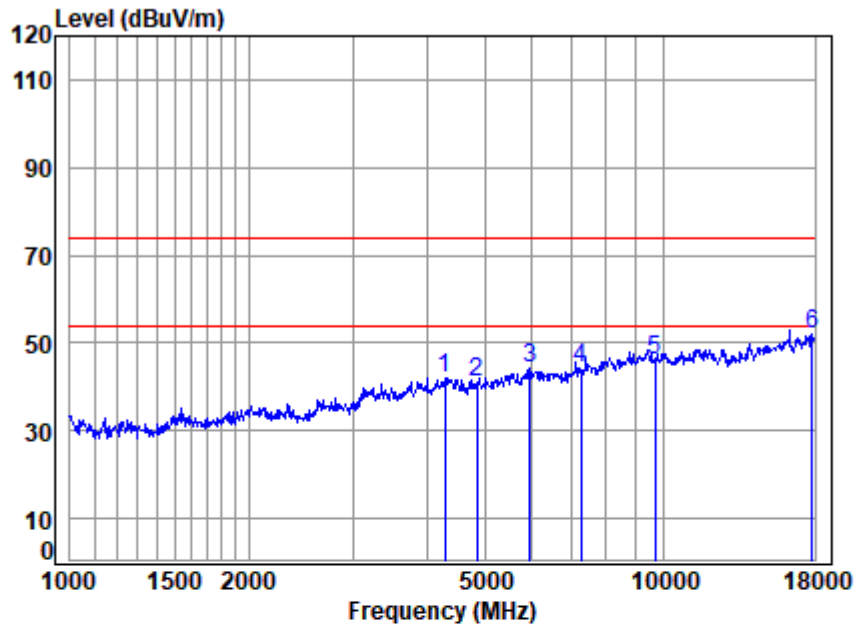


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2462 TX RSE
: 2.4G WIFI 11N20

	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	4341.886	7.09	34.34	54.26	55.17	42.34	74.00	-31.66	peak
2	4924.000	7.50	34.65	54.21	52.13	40.07	74.00	-33.93	peak
3	6053.894	8.92	35.01	53.11	54.42	45.24	74.00	-28.76	peak
4	7386.000	8.44	35.77	53.16	52.76	43.81	74.00	-30.19	peak
5	9848.000	10.66	37.20	53.26	51.88	46.48	74.00	-27.52	peak
6	p17844.590	11.41	43.90	52.48	49.63	52.46	74.00	-21.54	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low

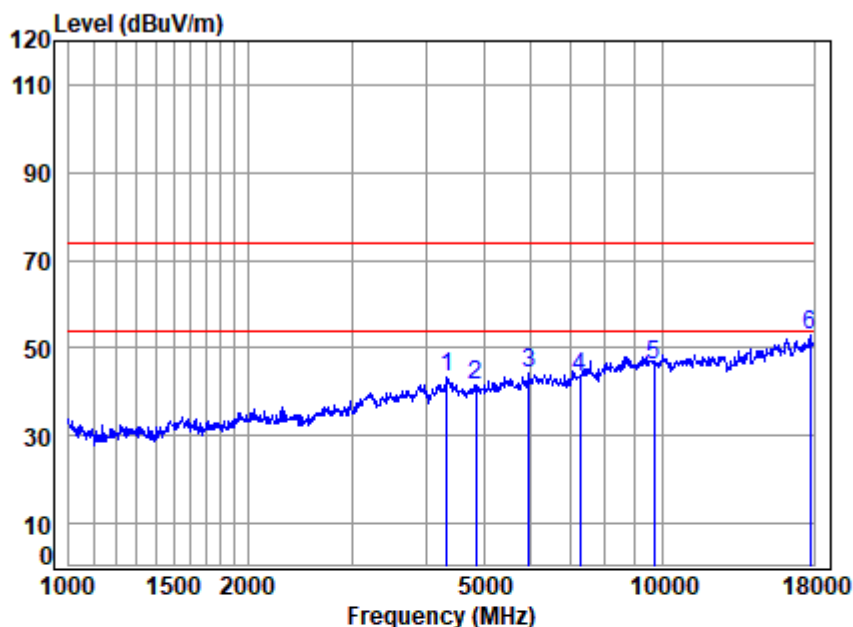


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2422 TX RSE
: 2.4G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4279.589	7.05	33.92	54.27	55.46	42.16	74.00	-31.84 peak
2	4844.000	7.44	34.48	54.21	53.23	40.94	74.00	-33.06 peak
3	5949.811	8.86	34.70	53.15	53.97	44.38	74.00	-29.62 peak
4	7266.000	8.48	35.70	53.17	53.19	44.20	74.00	-29.80 peak
5	9688.000	10.71	37.50	53.32	51.23	46.12	74.00	-27.88 peak
6	p17793.090	11.38	43.89	52.50	49.39	52.16	74.00	-21.84 peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2422 TX RSE
: 2.4G WIFI 11N40

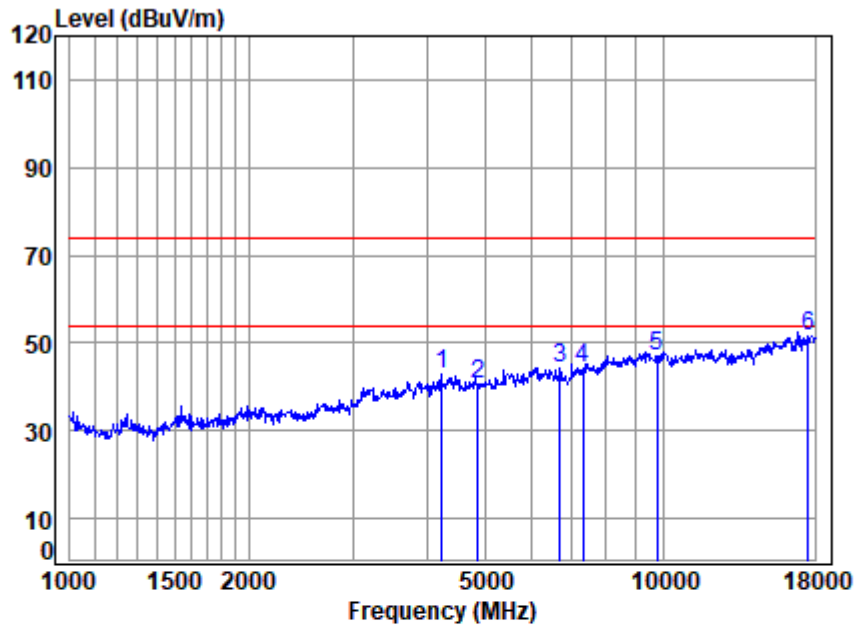
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4341.886	7.09	34.34	54.26	56.34	43.51	74.00	-30.49	peak
2	4844.000	7.44	34.48	54.21	54.02	41.73	74.00	-32.27	peak
3	5949.811	8.86	34.70	53.15	54.04	44.45	74.00	-29.55	peak
4	7266.000	8.48	35.70	53.17	52.34	43.35	74.00	-30.65	peak
5	9688.000	10.71	37.50	53.32	51.18	46.07	74.00	-27.93	peak
6	p17741.740	11.35	43.84	52.53	50.18	52.84	74.00	-21.16	peak



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle

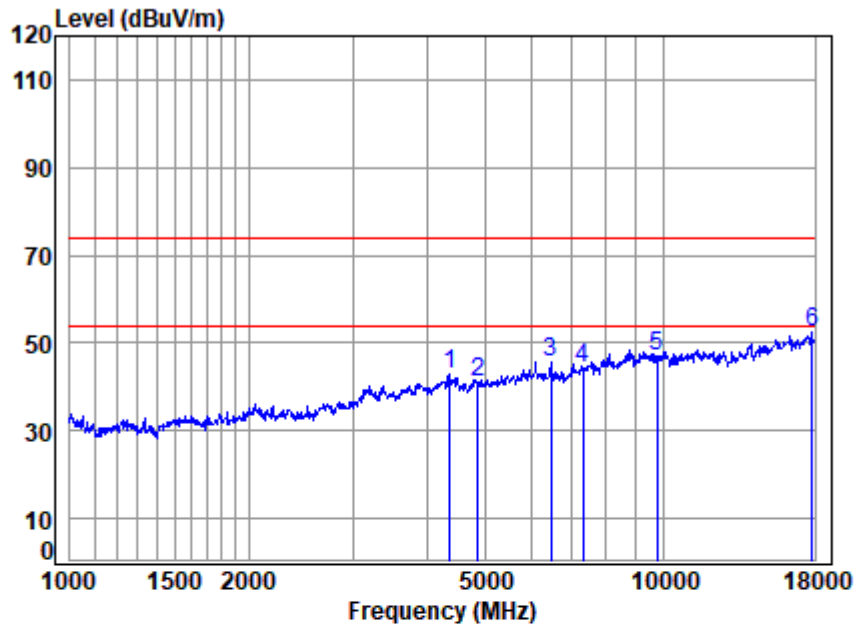


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4230.396	7.03	33.80	54.27	56.32	42.88	74.00	-31.12 peak
2	4874.000	7.47	34.60	54.21	52.67	40.53	74.00	-33.47 peak
3	6698.373	8.75	35.20	53.17	53.61	44.39	74.00	-29.61 peak
4	7311.000	8.47	35.70	53.17	53.14	44.14	74.00	-29.86 peak
5	9748.000	10.69	37.40	53.30	52.21	47.00	74.00	-27.00 peak
6	p17537.800	11.22	43.48	52.63	49.70	51.77	74.00	-22.23 peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle

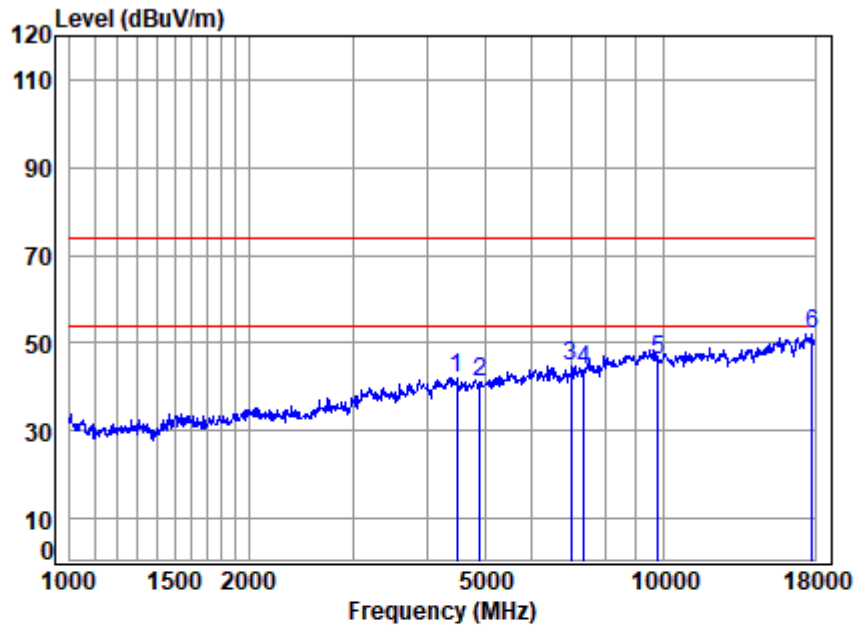


Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2437 TX RSE
: 2.4G WIFI 11N40

	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	4367.058	7.10	34.54	54.26	55.29	42.67	74.00	-31.33	peak
2	4874.000	7.47	34.60	54.21	53.41	41.27	74.00	-32.73	peak
3	6470.026	8.88	35.54	53.15	54.27	45.54	74.00	-28.46	peak
4	7311.000	8.47	35.70	53.17	53.06	44.06	74.00	-29.94	peak
5	9748.000	10.69	37.40	53.30	52.30	47.09	74.00	-26.91	peak
6	p17793.090	11.38	43.89	52.50	49.65	52.42	74.00	-21.58	peak



Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High

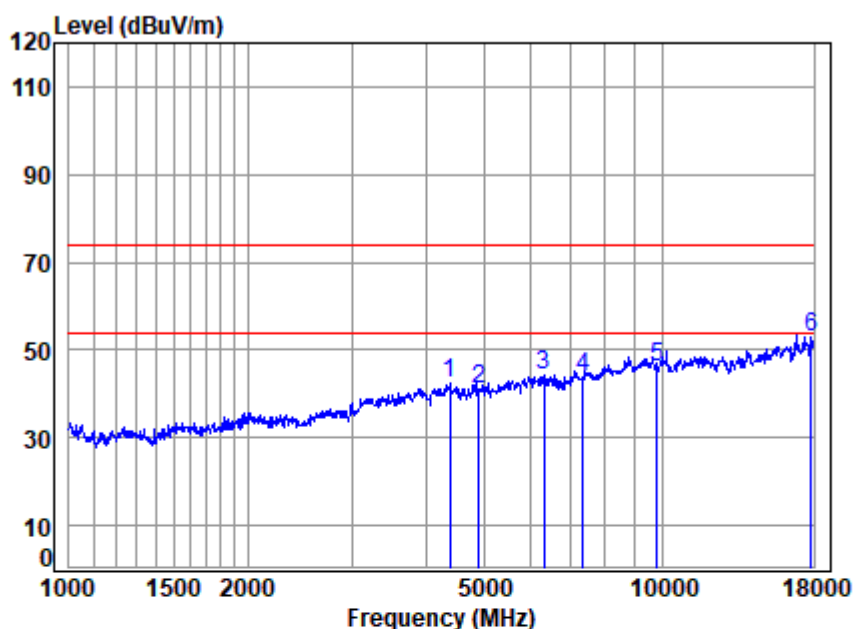


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03037AT\03038AT
Mode : 2452 TX RSE
: 2.4G WIFI 11N40

	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	4495.125	7.17	33.66	54.25	55.38	41.96	74.00	-32.04	peak
2	4904.000	7.49	34.69	54.21	52.91	40.88	74.00	-33.12	peak
3	6995.172	8.56	35.71	53.20	53.62	44.69	74.00	-29.31	peak
4	7356.000	8.45	35.71	53.16	52.82	43.82	74.00	-30.18	peak
5	9808.000	10.68	37.28	53.27	51.50	46.19	74.00	-27.81	peak
6	p17793.090	11.38	43.89	52.50	49.31	52.08	74.00	-21.92	peak



Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03037AT\03038AT
Mode : 2452 TX RSE
: 2.4G WIFI 11N40

	Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4379.699	7.11	34.64	54.26	55.00	42.49	74.00	-31.51 peak
2	4904.000	7.49	34.69	54.21	53.32	41.29	74.00	-32.71 peak
3	6322.136	8.90	34.96	53.13	53.71	44.44	74.00	-29.56 peak
4	7356.000	8.45	35.71	53.16	52.63	43.63	74.00	-30.37 peak
5	9808.000	10.68	37.28	53.27	51.44	46.13	74.00	-27.87 peak
6	p17793.090	11.38	43.89	52.50	50.08	52.85	74.00	-21.15 peak



8 Test Setup Photo

Please refer to SZCR2507003037 Appendix_Setup Photo

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2507003037AT

- End of the Report -

