

TEST REPORT

Reference No..... : WTD20X07050639W-1
FCC ID : 2AA3H-S6064
Applicant : Shenzhen 3Nod Digital Technology Co., Ltd.
WORKSHOP 15,ZHONGFU ROAD,TANGXIAYONG
Address : COMMUNITY,SONGGANG NEIGHBOURHOOD,BAOAN
DISTRICT,SHENZHEN CITY Guangdong 518105
Product Name : onn 5.1.2 Atmos Soundbar, Onn 5.1.2 Atmos Soundbar
Test Model. : 100002634
Standards : FCC Part 15.407
Date of Receipt sample : Jul.30, 2020
Date of Test..... : Jul.30, 2020 to Aug.17, 2020
Date of Issue : Aug.17, 2020
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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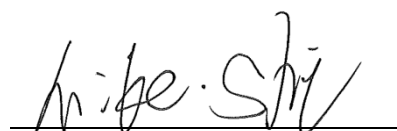
Tel.: +86-755-33663308

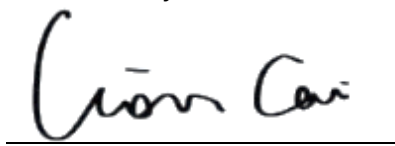
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TABLE OF CONTENTS

1. GENERAL INFORMATION	4
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
1.2 TEST STANDARDS	5
1.3 TEST METHODOLOGY	5
1.4 TABLE FOR PARAMETERS OF TEST SOFTWARE SETTING	5
1.5 EUT OPERATING DURING TEST	6
1.6 TEST FACILITY	6
1.7 EUT SETUP AND TEST MODE	7
1.8 MEASUREMENT UNCERTAINTY	8
1.9 TEST EQUIPMENT LIST AND DETAILS	9
2. SUMMARY OF TEST RESULTS	11
3. RF EXPOSURE	12
3.1 STANDARD APPLICABLE	12
3.2 TEST RESULT	12
4. ANTENNA REQUIREMENT	13
4.1 STANDARD APPLICABLE	13
4.2 EVALUATION INFORMATION	13
5. AUTOMATICALLY DISCONTINUE TRANSMISSION	14
5.1 STANDARD APPLICABLE	14
5.2 SUMMARY OF TEST RESULTS	14
6. CONDUCTED EMISSIONS	15
6.1 TEST PROCEDURE	15
6.2 BASIC TEST SETUP BLOCK DIAGRAM	15
6.3 TEST RECEIVER SETUP	15
6.4 SUMMARY OF TEST RESULTS/PLOTS	15
7. RADIATED SPURIOUS EMISSIONS	18
7.1 STANDARD APPLICABLE	18
7.2 TEST PROCEDURE	18
7.3 TEST RECEIVER SETUP	20
7.4 CORRECTED AMPLITUDE & MARGIN CALCULATION	20
7.5 SUMMARY OF TEST RESULTS/PLOTS	21

Report version

Version No.	Date of issue	Description
Rev.00	Aug.17, 2020	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Shenzhen 3Nod Digital Technology Co., Ltd.
Address of applicant: WORKSHOP 15,ZHONGFU ROAD,TANGXIAYONG
COMMUNITY,SONGGANG NEIGHBOURHOOD,BAOAN
DISTRICT,SHENZHEN CITY Guangdong 518105

Manufacturer: Shenzhen 3Nod Digital Technology Co., Ltd.
Address of manufacturer: WORKSHOP 15,ZHONGFU ROAD,TANGXIAYONG
COMMUNITY,SONGGANG NEIGHBOURHOOD,BAOAN
DISTRICT,SHENZHEN CITY Guangdong 518105

General Description of EUT	
Product Name:	onn 5.1.2 Atmos Soundbar, Onn 5.1.2 Atmos Soundbar
Trade Name:	/
Model No.:	100002634
Adding Model(s):	/
Rated Voltage:	AC120V/60Hz
Battery Capacity:	/
Power Adapter:	/
Software Version:	/
Hardware Version:	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11a, 802.11n(HT20) , 802.11n-HT40, 802.11ac-VHT20, 802.11ac-VHT40,802.11ac-VHT80
Frequency Range:	5150-5250MHz, 5725-5850MHz
RF Output Power:	5150-5250MHz:15.76dBm (Conducted) 5725-5850MHz:16.55dBm (Conducted)
Type of Modulation:	BPSK, QPSK,16QAM,64QAM, 256QAM
Data Rate:	6-54Mbps, up to 200Mbps
Type of Antenna:	Integral Antenna
Antenna Gain:	3.3dBi

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.407: General technical requirements.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

KDB789033 D02 v02r01: GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPARTE.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB789033 D02 v02r01. The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Table for parameters of Test Software setting

During testing, Channel & Power Controlling Software is SecureCRT which provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

1.5 EUT Operating during test

EUT was programmed to be in continuously transmitting mode. During the test, EUT operation to normal function and programs under Android were executed.

1.6 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C. (518101)

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.7 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11a	5180MHz,5200MHz,5240MHz, 5745MHz, 5785MHz,5825MHz
TM2	802.11n-HT20	5180MHz,5200MHz,5240MHz,5745MHz, 5785MHz,5825MHz
TM3	802.11n-HT40	5190MHz,5230MHz, 5755MHz,5795MHz
TM4	802.11ac-VH80	5210MHz ,5775 MHz
Note : 802.11ac-VHT20, 802.11ac-VHT40 covered by 802.11n-HT20 and 802.11n-HT40.		

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	50~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.8 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-18GHz $\pm 3.92\text{dB}$

1.9 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2020-04-28	2021-04-27
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2020-04-28	2021-04-27
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2020-04-28	2021-04-27
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2020-04-28	2021-04-27
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2020-04-28	2021-04-27
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2019-05-05	2021-05-04
SEMT-1042	Horn Antenna	ETS	3117	00086197	2019-05-05	2021-05-04
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2019-05-05	2021-05-04
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2019-05-05	2021-05-04
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2020-04-28	2021-04-27
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2020-04-28	2021-04-27
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2020-04-28	2021-04-27
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2020-04-28	2021-04-27
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2020-04-28	2021-04-27
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2020-04-28	2021-04-27
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2019-05-05	2021-05-04
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2020-04-28	2021-04-27
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2020-04-28	2021-04-27
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2020-04-28	2021-04-27
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2020-03-17	2021-03-16
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2020-03-17	2021-03-16
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2020-03-17	2021-03-16
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2020-03-17	2021-03-16
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2020-03-17	2021-03-16
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2020-03-17	2021-03-16

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 2.1091	RF Exposure	Compliant
§ 15.203; §15.405	Antenna Requirement	Compliant
15.407 (c)	Automatically Discontinue Transmission	Compliant
§15.207; §15.407(b)(6)	Conducted Emission	Compliant
§15.407(a)(1),(2)	Power Spectral Density	N/A
§15.407(e)	Emission Bandwidth and Occupied Bandwidth	N/A
§15.407(a)(1),(2)	Maximum Conducted Output Power	N/A
§15.407(b)(1),(2),(3),(4)	Undesirable emission	N/A
§15.205; §15.407(b)(1),(2),(3)	Radiated Emission	Compliant
§15.407(g)	Frequency Stability	N/A
§15.407(h)	Dynamic Frequency Selection (DFS)	N/A

Note: 1. N/A: Not applicable

2. This report is apply C2PC, Only do partial test(RF Exposure, Antenna Requirement, Conducted Emission and Radiated Spurious Emissions below 1GHz)

3. RF Exposure

3.1 Standard Applicable

According to §1.1307 and §2.1091, the fixed transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the MPE Report.

4. Antenna Requirement

4.1 Standard Applicable

According to FCC Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

4.2 Evaluation Information

This product has two integral antennas, fulfill the requirement of this section.

5. Automatically Discontinue Transmission

5.1 Standard Applicable

According to FCC Part 15.407(c), the device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

5.2 Summary of Test Results

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

6. Conducted Emissions

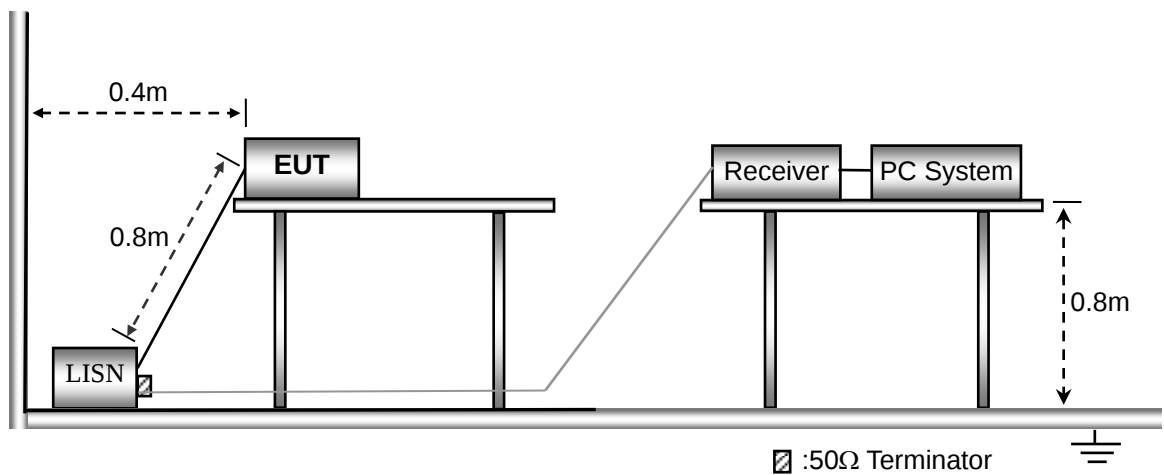
6.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

6.2 Basic Test Setup Block Diagram



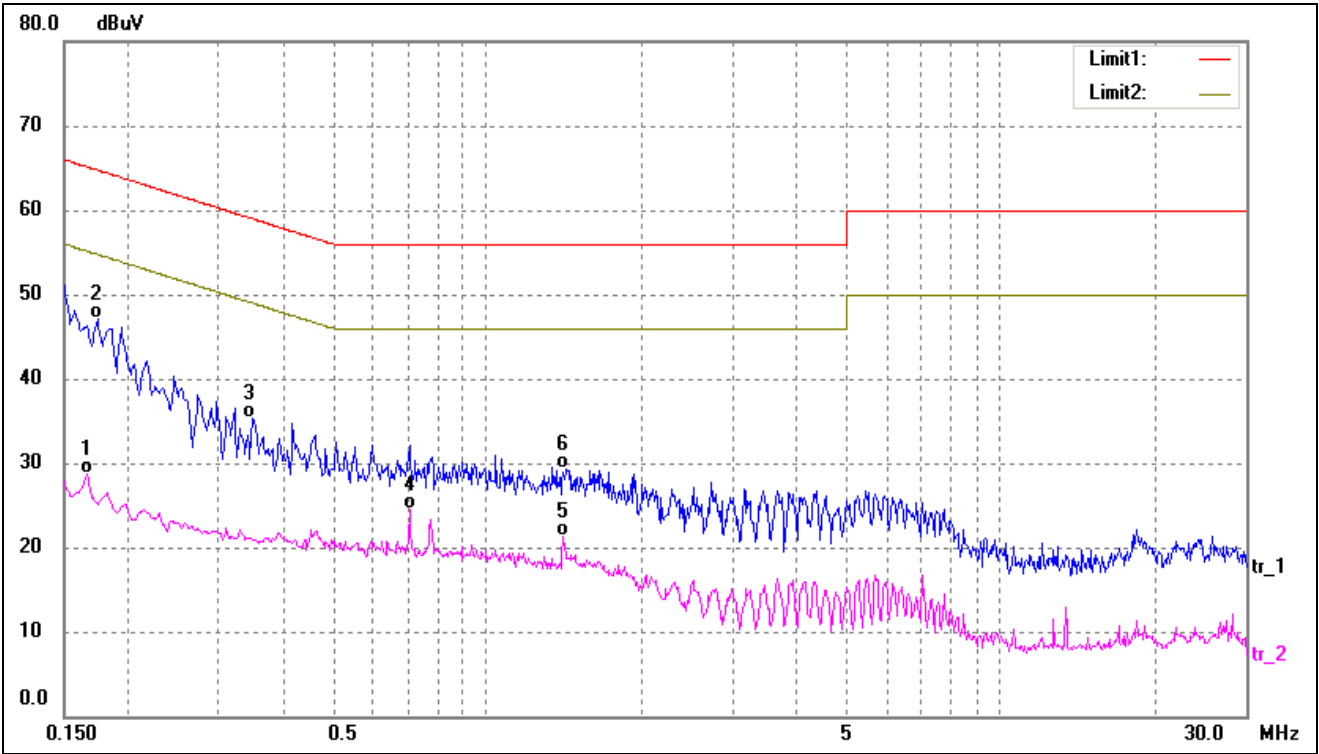
6.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth.....	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode	Normal

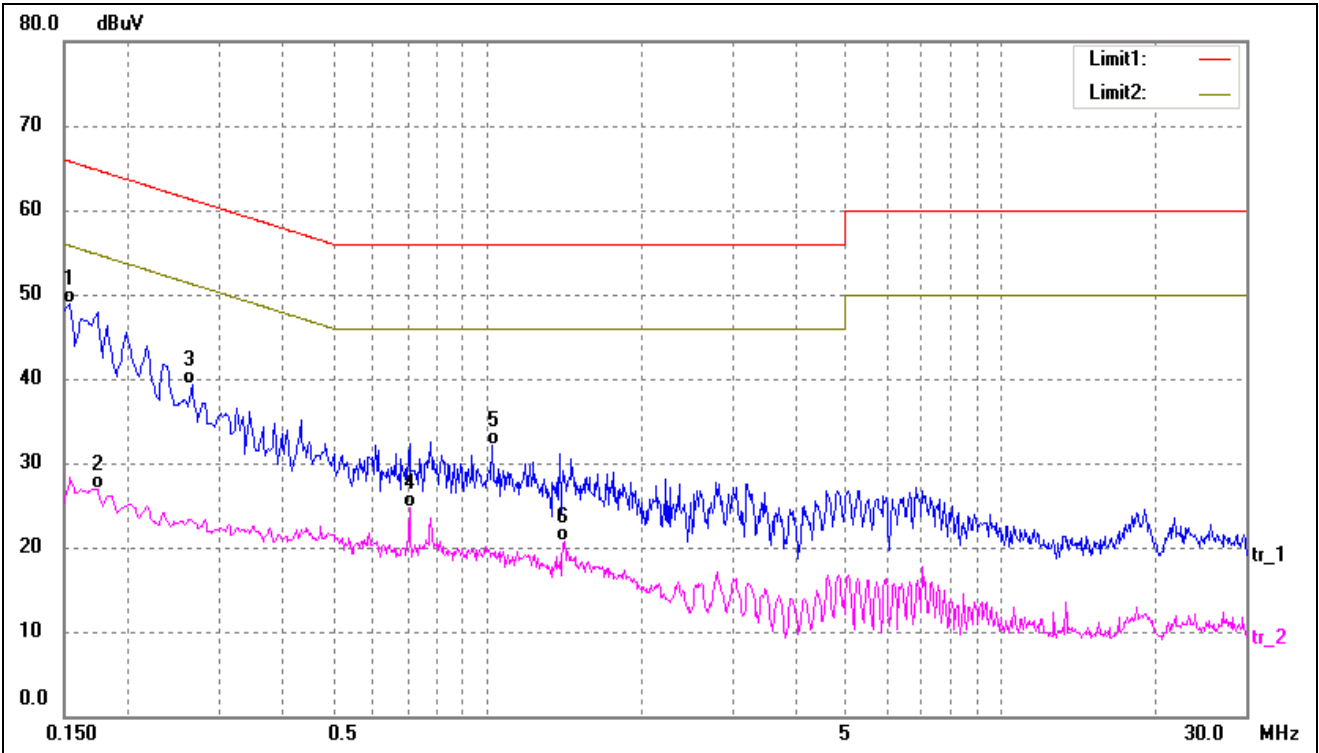
6.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	18.37	10.26	28.63	55.15	-26.52	AVG
2*	0.1740	36.84	10.25	47.09	64.76	-17.67	QP
3	0.3500	25.07	10.26	35.33	58.96	-23.63	QP
4	0.7060	14.40	10.17	24.57	46.00	-21.43	AVG
5	1.4100	11.01	10.22	21.23	46.00	-24.77	AVG
6	1.4260	19.02	10.23	29.25	56.00	-26.75	QP

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1540	38.72	10.25	48.97	65.78	-16.81	QP
2	0.1740	16.61	10.25	26.86	54.77	-27.91	AVG
3	0.2660	28.99	10.25	39.24	61.24	-22.00	QP
4	0.7060	14.55	10.17	24.72	46.00	-21.28	AVG
5	1.0260	21.96	10.20	32.16	56.00	-23.84	QP
6	1.4140	10.45	10.22	20.67	46.00	-25.33	AVG

7. Radiated Spurious Emissions

7.1 Standard Applicable

According to §15.407(b), undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

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

According to §15.407(b)(6), Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

According to §15.407(b)(7), The provisions of §15.205 apply to intentional radiators operating under this section.
789033 D02 v02r01 General UNII Test Procedures New Rules v01

If radiated measurements are performed, field strength is then converted to EIRP as follows:

$$\text{EIRP} = ((E \cdot d)^2) / 30$$

where:

- E is the field strength in V/m;
- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.

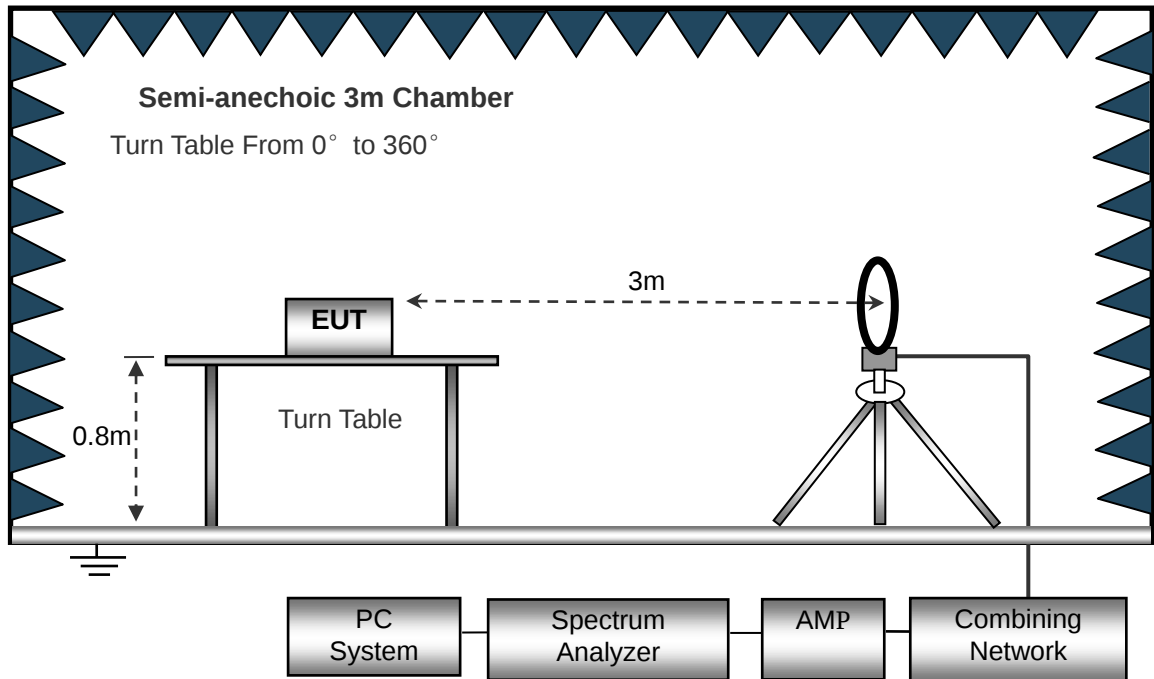
7.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.407(b)(6) and FCC Part 15.209 Limit..

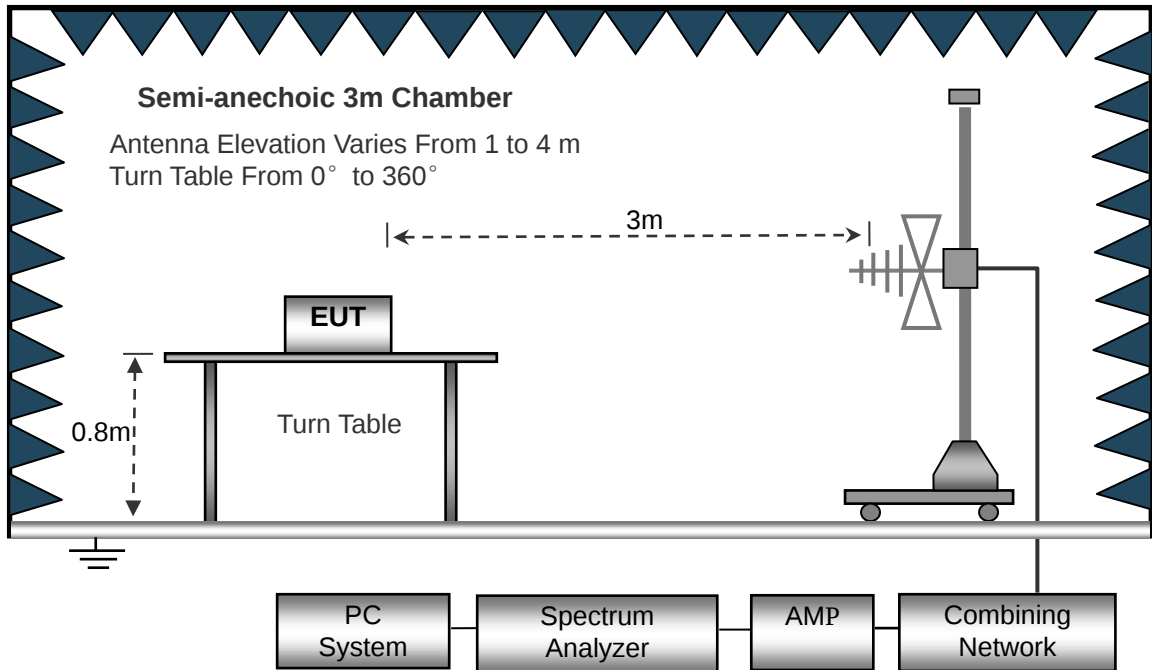
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

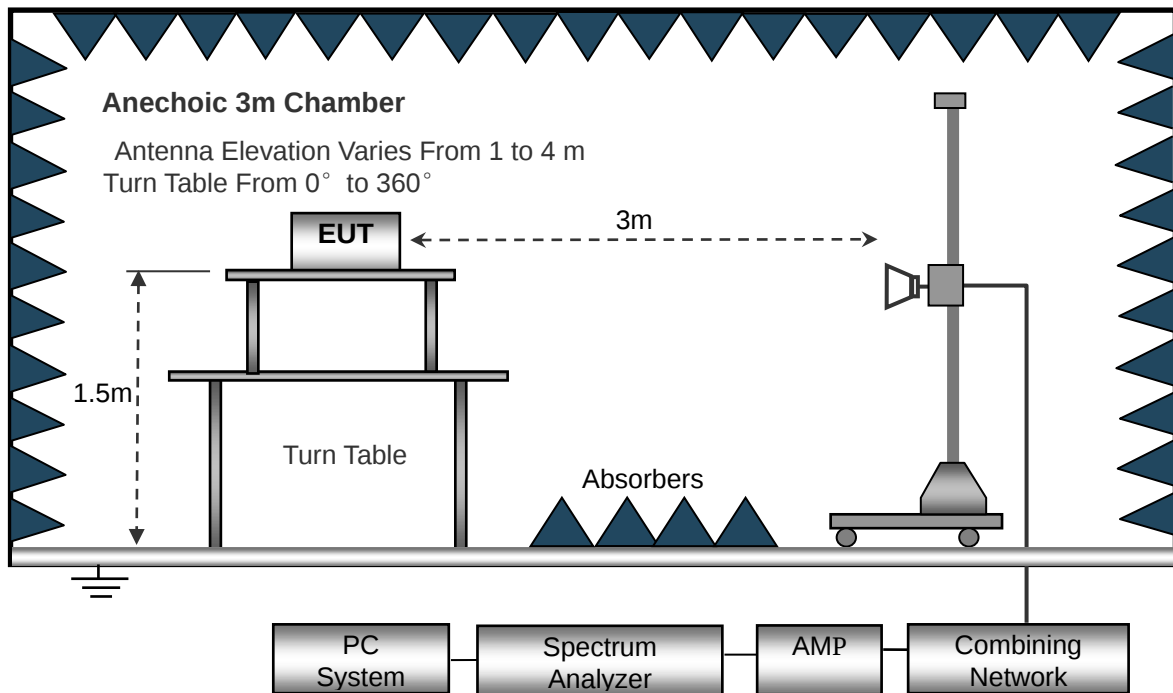
The test setup for emission measurement below 30MHz..



The test setup for emission measurement from 30 MHz to 1 GHz..



The test setup for emission measurement above 1 GHz..



7.3 Test Receiver Setup

During the radiated emission test for above 1GHz, the test receiver was set with the following configurations:

For peak detector:

RBW = 1000kHz, VBW = 3000kHz, Sweep Time = Auto

For average detector:

RBW = 1000kHz, VBW = 10Hz, Sweep Time = Auto

7.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

7.5 Summary of Test Results/Plots

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

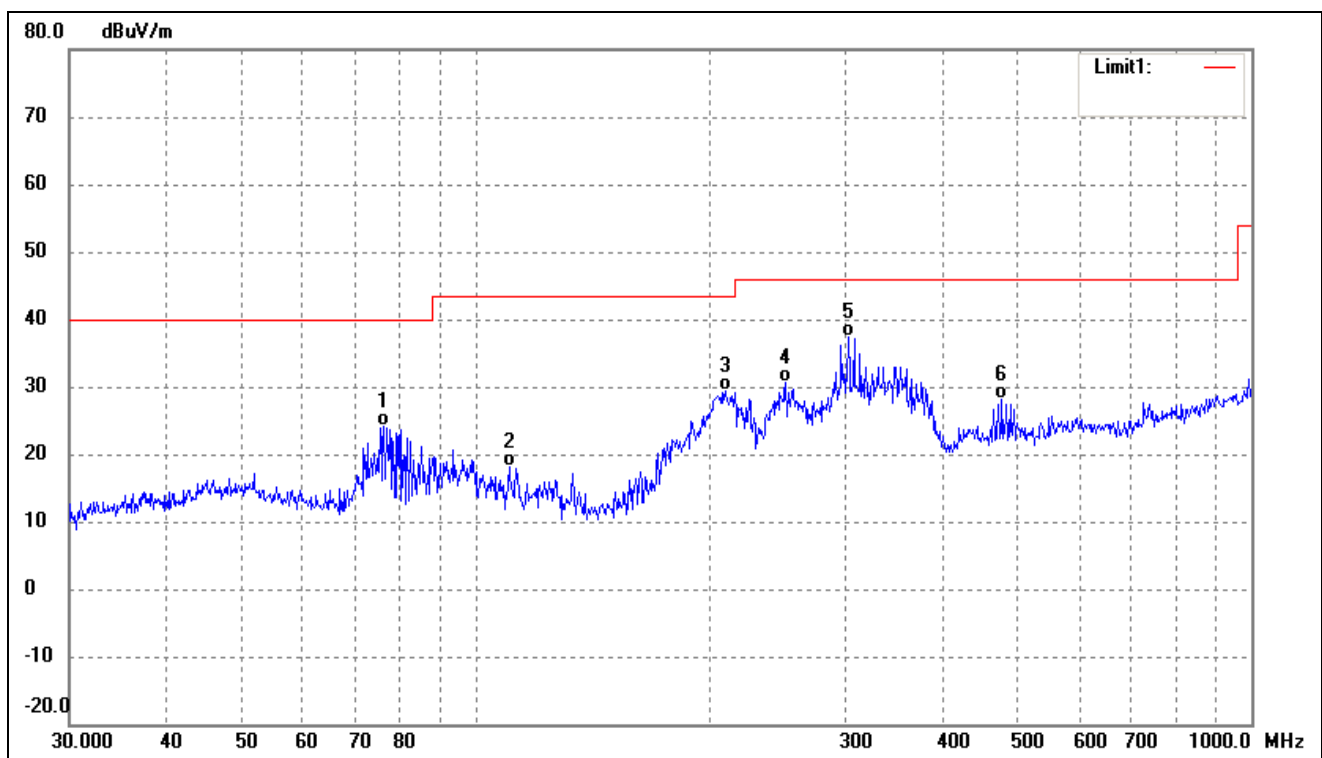
➤ Spurious Emission From 30 MHz to 1 GHz

➤ Antenna 2(Worst case)

➤ 5150-5250MHz

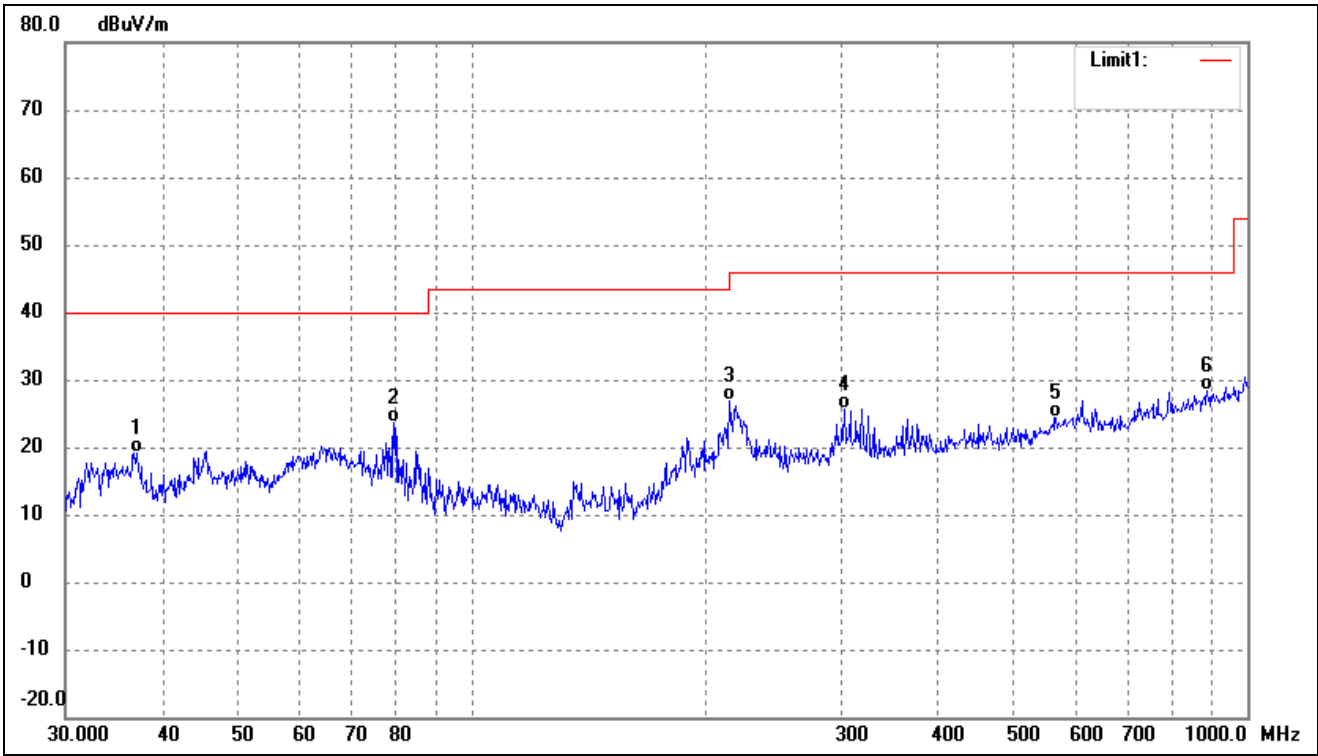
802.11a(Worst case)

Test Channel	Low Channel	Polarity:	Horizontal
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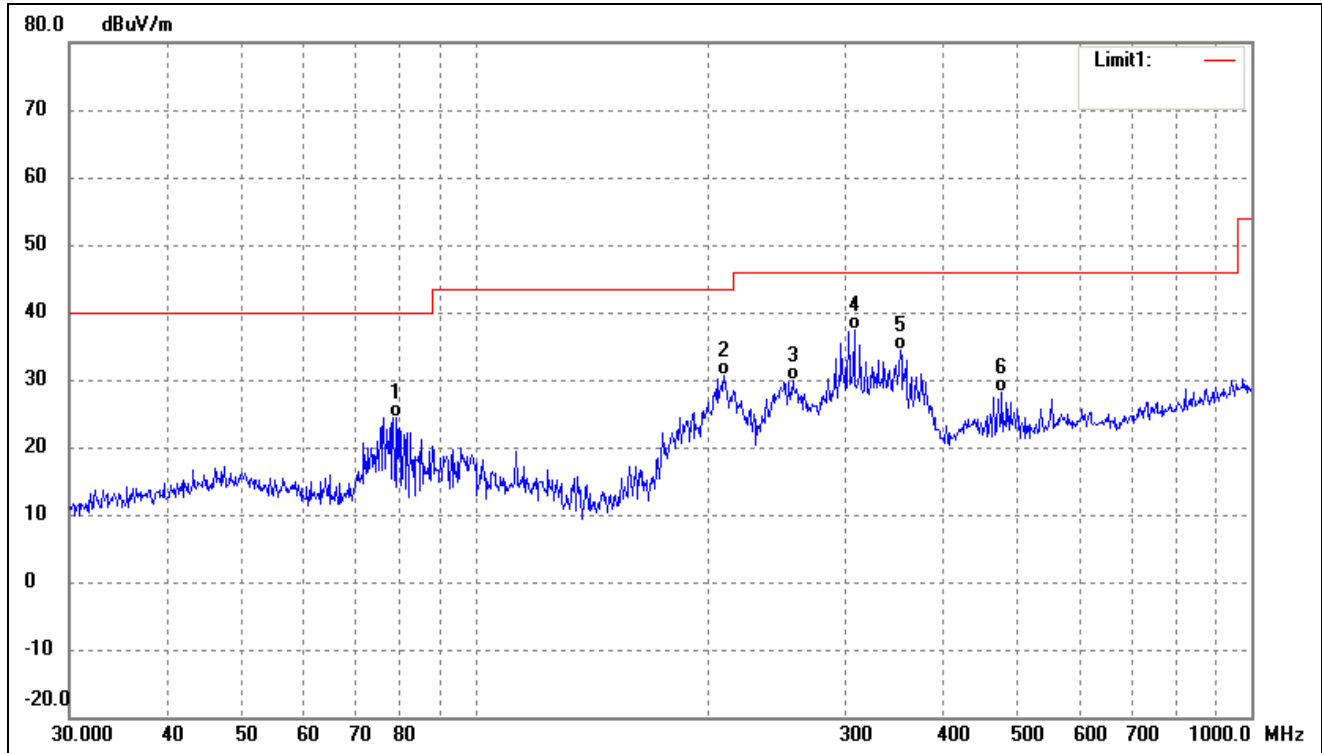
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	76.2442	38.24	-13.99	24.25	40.00	-15.75	-	-	QP
2	110.5687	30.25	-12.21	18.04	43.50	-25.46	-	-	QP
3	210.0482	40.58	-11.08	29.50	43.50	-14.00	-	-	QP
4	251.1804	39.81	-9.27	30.54	46.00	-15.46	-	-	QP
5	302.4812	44.74	-7.25	37.49	46.00	-8.51	-	-	QP
6	477.1694	32.87	-4.81	28.06	46.00	-17.94	-	-	QP

802.11a(Worst case)			
Test Channel	Low Channel	Polarity:	Vertical



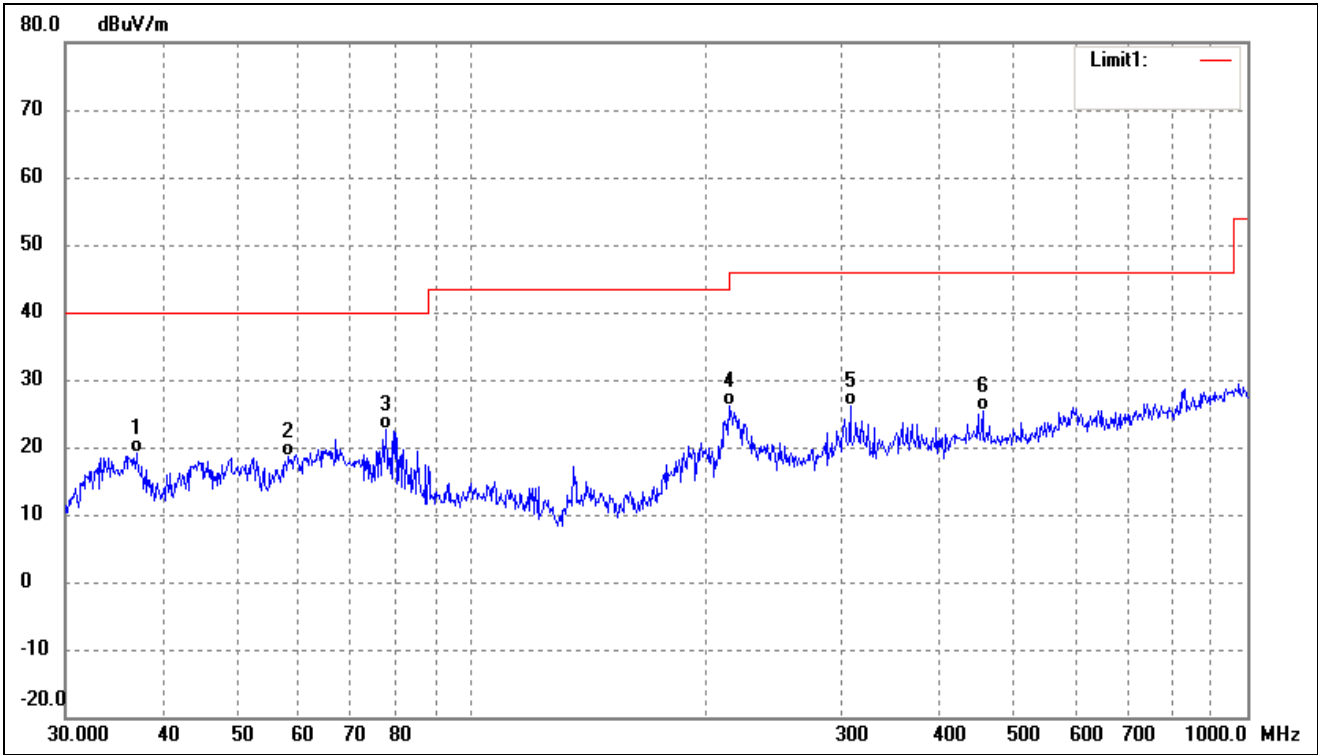
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	37.0249	31.45	-12.27	19.18	40.00	-20.82	-	-	QP
2	79.5209	37.76	-14.15	23.61	40.00	-16.39	-	-	QP
3	215.2678	37.73	-10.97	26.76	43.50	-16.74	-	-	QP
4	302.4812	32.93	-7.25	25.68	46.00	-20.32	-	-	QP
5	566.6223	27.42	-2.96	24.46	46.00	-21.54	-	-	QP
6	887.6099	26.97	1.33	28.30	46.00	-17.70	-	-	QP

802.11a(Worst case)			
Test Channel	Middle Channel	Polarity:	Horizontal



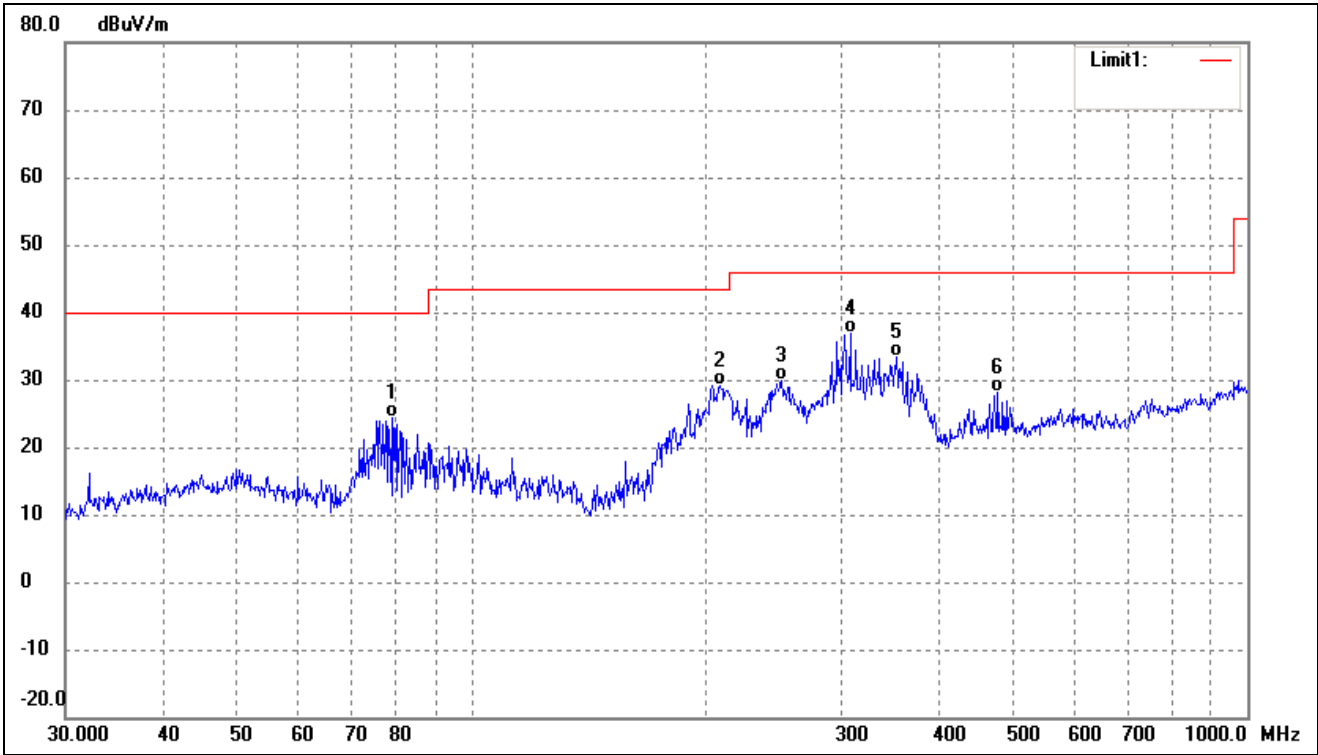
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	78.9652	38.54	-14.12	24.42	40.00	-15.58	-	-	QP
2	209.3129	41.71	-11.11	30.60	43.50	-12.90	-	-	QP
3	256.5211	38.96	-9.14	29.82	46.00	-16.18	-	-	QP
4	307.8313	44.76	-7.28	37.48	46.00	-8.52	-	-	QP
5	352.9434	40.51	-6.08	34.43	46.00	-11.57	-	-	QP
6	477.1694	32.84	-4.81	28.03	46.00	-17.97	-	-	QP

802.11a(Worst case)			
Test Channel	Middle Channel	Polarity:	Vertical



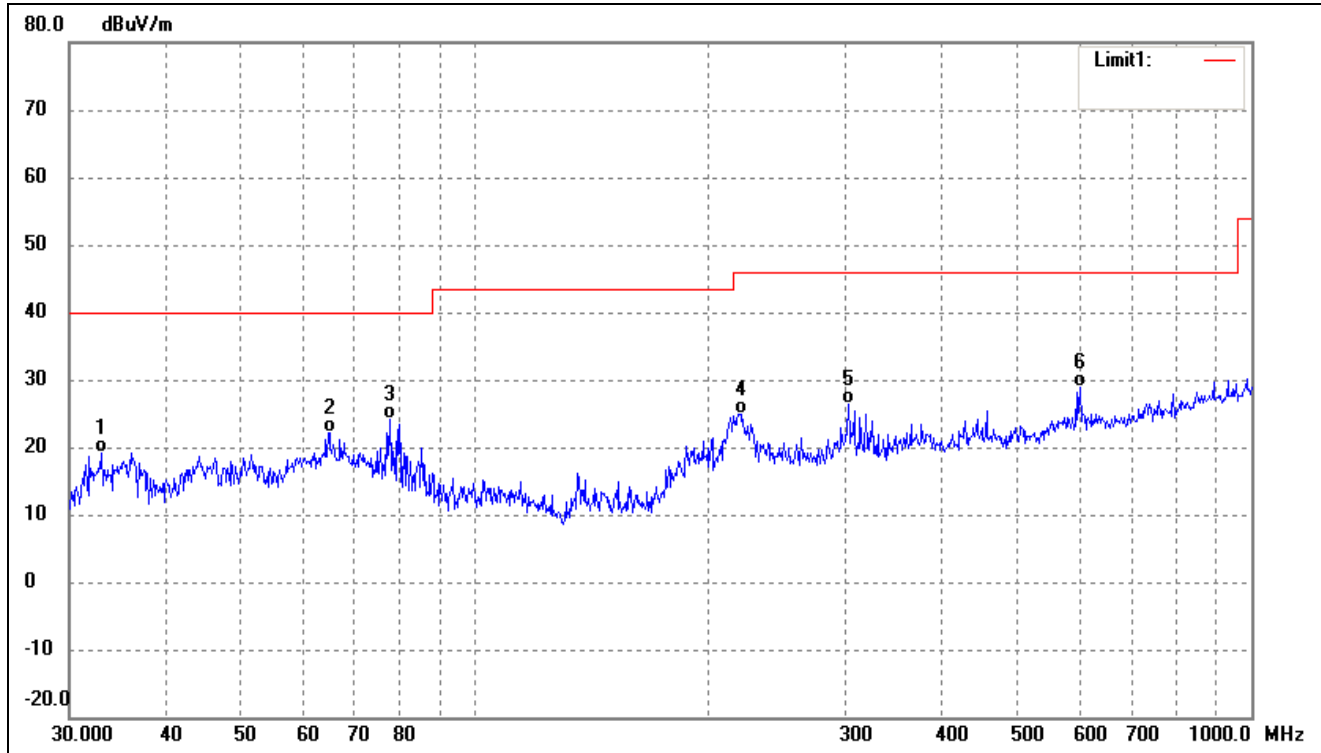
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	37.0249	31.43	-12.27	19.16	40.00	-20.84	-	-	QP
2	58.2030	30.62	-11.97	18.65	40.00	-21.35	-	-	QP
3	77.5928	36.72	-14.06	22.66	40.00	-17.34	-	-	QP
4	215.2678	37.17	-10.97	26.20	43.50	-17.30	-	-	QP
5	307.8313	33.40	-7.28	26.12	46.00	-19.88	-	-	QP
6	455.9058	30.19	-4.73	25.46	46.00	-20.54	-	-	QP

802.11a(Worst case)			
Test Channel	High Channel	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	78.9652	38.54	-14.12	24.42	40.00	-15.58	-	-	QP
2	209.3129	40.18	-11.11	29.07	43.50	-14.43	-	-	QP
3	251.1804	39.16	-9.27	29.89	46.00	-16.11	-	-	QP
4	307.8313	44.09	-7.28	36.81	46.00	-9.19	-	-	QP
5	352.9434	39.57	-6.08	33.49	46.00	-12.51	-	-	QP
6	477.1694	32.88	-4.81	28.07	46.00	-17.93	-	-	QP

802.11a(Worst case)			
Test Channel	High Channel	Polarity:	Vertical

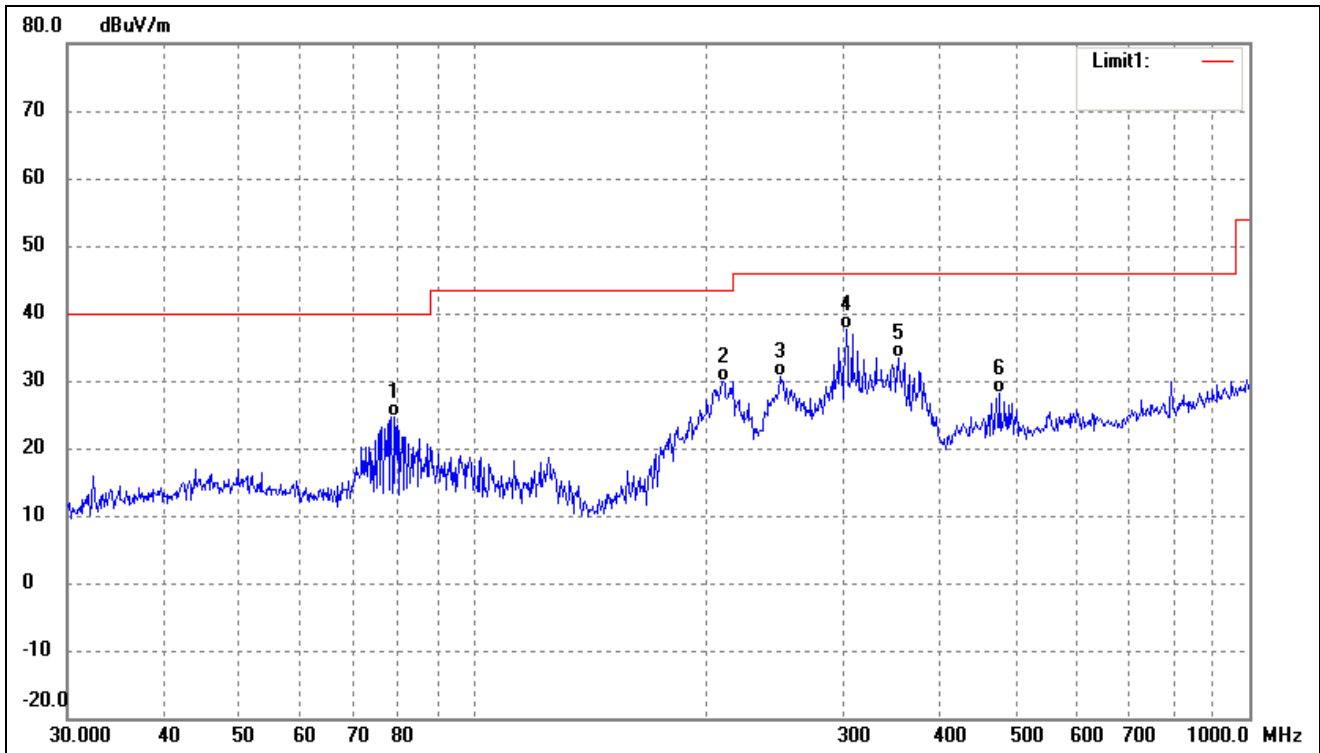


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	32.9791	32.39	-13.14	19.25	40.00	-20.75	-	-	QP
2	64.8865	35.15	-13.00	22.15	40.00	-17.85	-	-	QP
3	77.5928	38.22	-14.06	24.16	40.00	-15.84	-	-	QP
4	219.8449	35.73	-10.87	24.86	46.00	-21.14	-	-	QP
5	302.4812	33.73	-7.25	26.48	46.00	-19.52	-	-	QP
6	601.4265	31.17	-2.29	28.88	46.00	-17.12	-	-	QP

➤ 5725-5850MHz

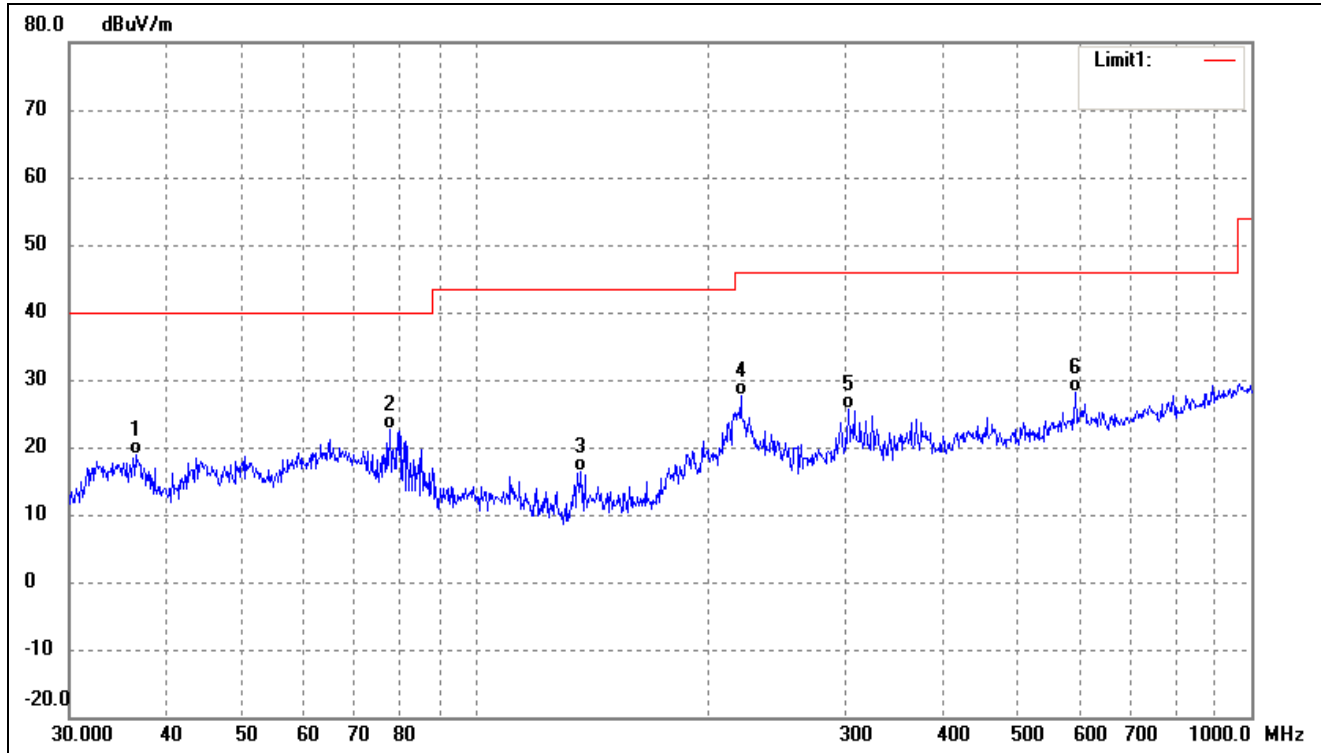
➤ 802.11a(Worst case)

Test Channel	Low Channel	Polarity:	Horizontal
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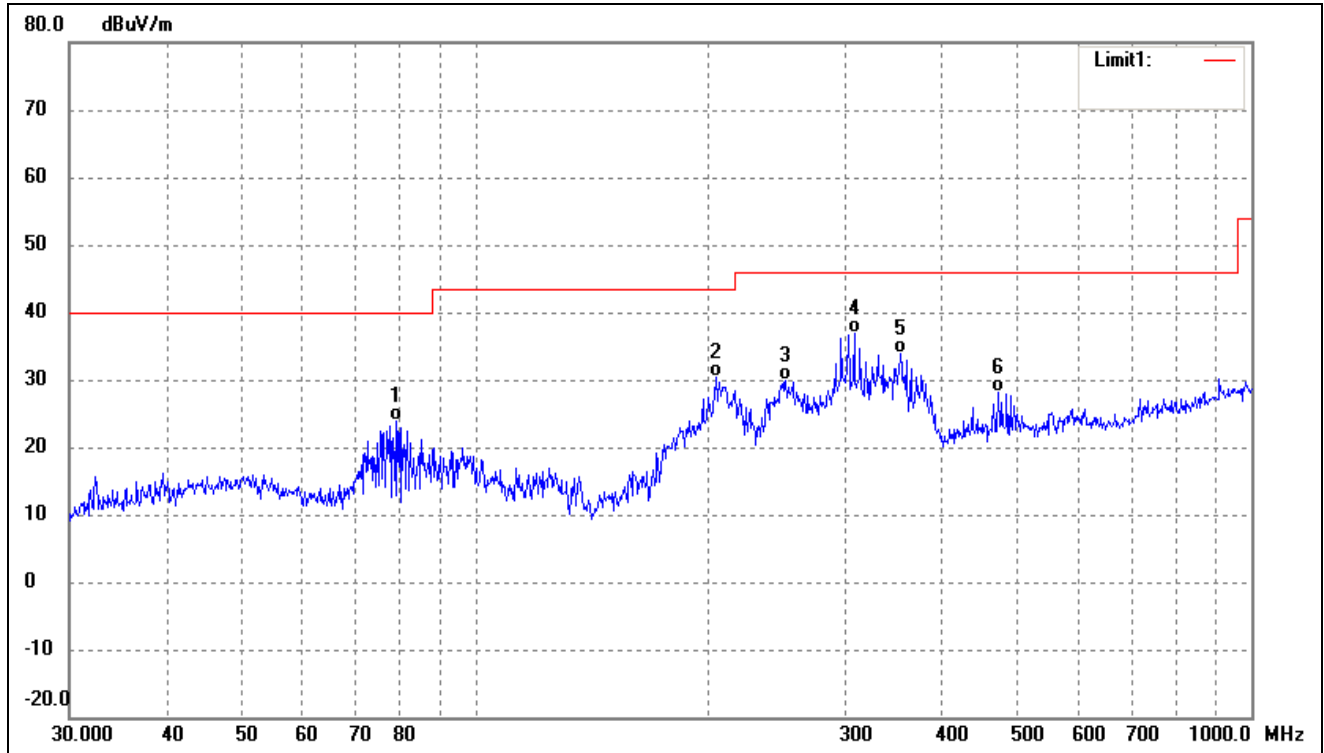
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	78.9652	38.76	-14.12	24.64	40.00	-15.36	-	-	QP
2	210.0482	41.05	-11.08	29.97	43.50	-13.53	-	-	QP
3	248.5519	40.01	-9.37	30.64	46.00	-15.36	-	-	QP
4	302.4812	44.84	-7.25	37.59	46.00	-8.41	-	-	QP
5	352.9434	39.41	-6.08	33.33	46.00	-12.67	-	-	QP
6	477.1694	32.98	-4.81	28.17	46.00	-17.83	-	-	QP

802.11a(Worst case)			
Test Channel	Low Channel	Polarity:	Vertical



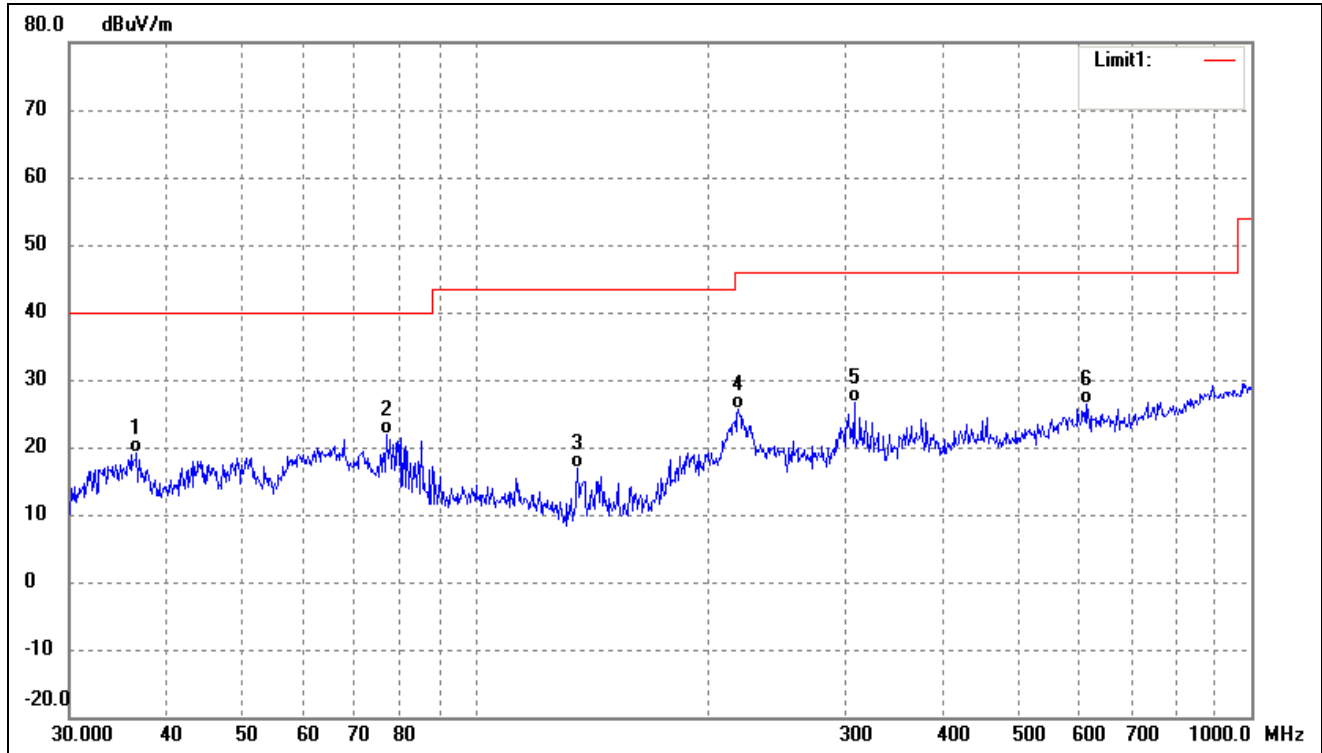
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.5092	31.18	-12.36	18.82	40.00	-21.18	-	-	QP
2	77.5928	36.57	-14.06	22.51	40.00	-17.49	-	-	QP
3	136.9392	31.19	-14.91	16.28	43.50	-27.22	-	-	QP
4	219.8449	38.40	-10.87	27.53	46.00	-18.47	-	-	QP
5	302.4812	32.97	-7.25	25.72	46.00	-20.28	-	-	QP
6	593.0497	30.48	-2.35	28.13	46.00	-17.87	-	-	QP

802.11a(Worst case)			
Test Channel	Middle Channel	Polarity:	Horizontal



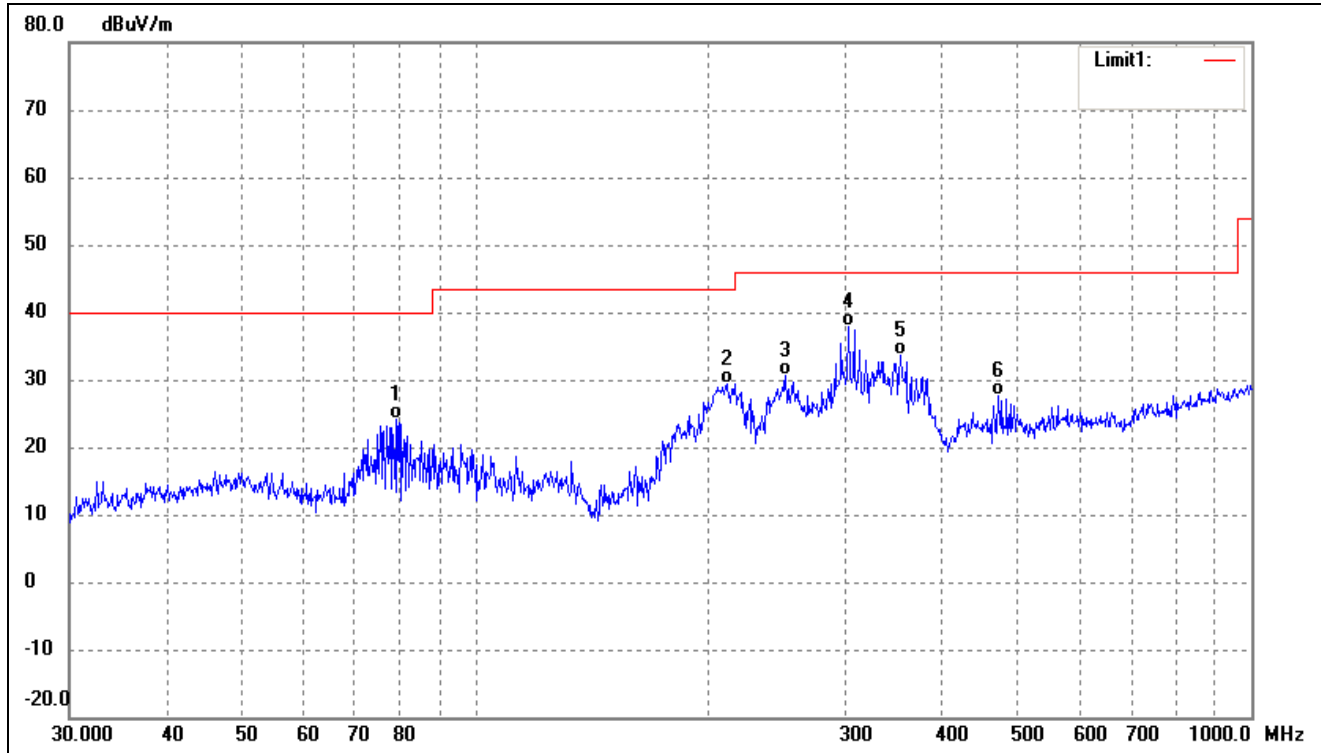
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	78.9652	37.92	-14.12	23.80	40.00	-16.20	-	-	QP
2	204.2377	41.63	-11.21	30.42	43.50	-13.08	-	-	QP
3	251.1804	39.12	-9.27	29.85	46.00	-16.15	-	-	QP
4	307.8313	44.09	-7.28	36.81	46.00	-9.19	-	-	QP
5	352.9434	39.87	-6.08	33.79	46.00	-12.21	-	-	QP
6	472.1760	32.93	-4.86	28.07	46.00	-17.93	-	-	QP

802.11a(Worst case)			
Test Channel	Middle Channel	Polarity:	Vertical



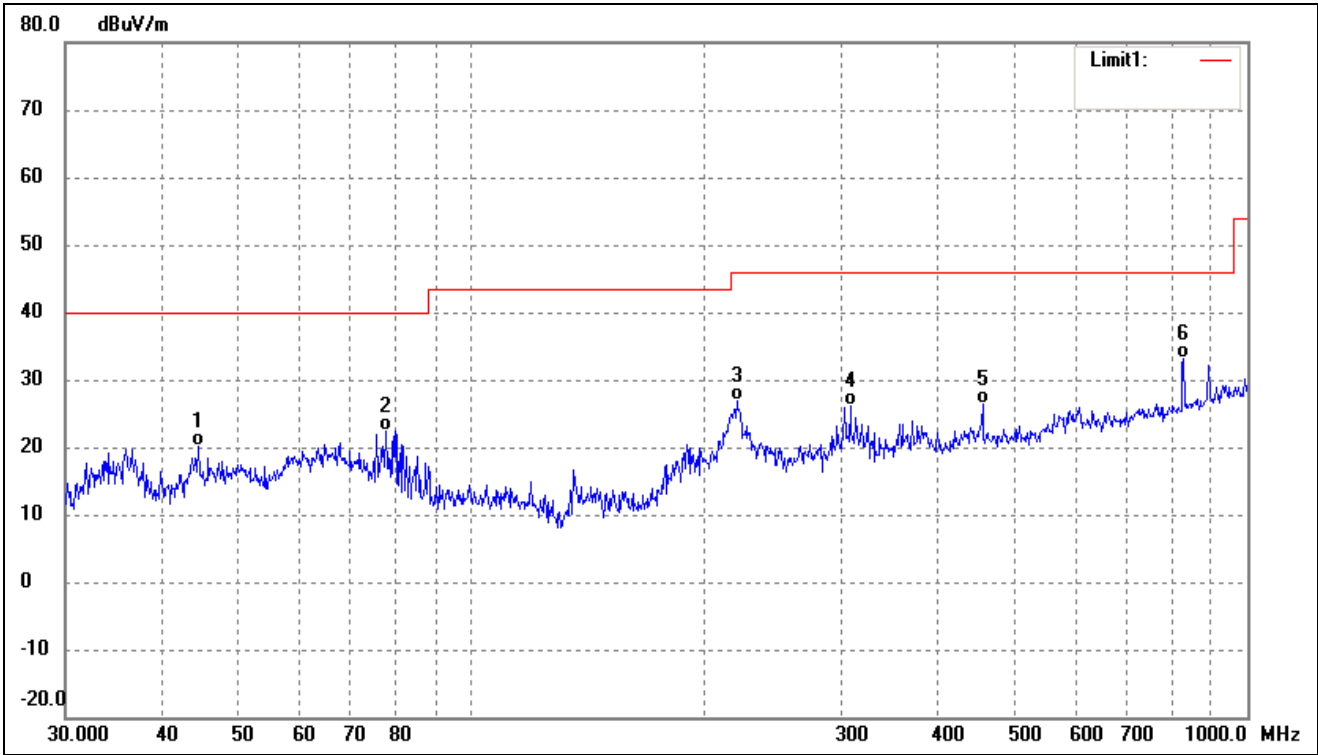
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.6375	31.49	-12.34	19.15	40.00	-20.85	-	-	QP
2	76.7808	35.99	-14.01	21.98	40.00	-18.02	-	-	QP
3	135.5062	32.05	-15.10	16.95	43.50	-26.55	-	-	QP
4	218.3085	36.58	-10.91	25.67	46.00	-20.33	-	-	QP
5	307.8313	33.85	-7.28	26.57	46.00	-19.43	-	-	QP
6	612.0642	28.71	-2.33	26.38	46.00	-19.62	-	-	QP

802.11a(Worst case)			
Test Channel	High Channel	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	78.9652	38.30	-14.12	24.18	40.00	-15.82	-	-	QP
2	210.7860	40.50	-11.06	29.44	43.50	-14.06	-	-	QP
3	251.1804	39.93	-9.27	30.66	46.00	-15.34	-	-	QP
4	302.4812	45.07	-7.25	37.82	46.00	-8.18	-	-	QP
5	352.9434	39.73	-6.08	33.65	46.00	-12.35	-	-	QP
6	472.1760	32.52	-4.86	27.66	46.00	-18.34	-	-	QP

802.11a(Worst case)			
Test Channel	High Channel	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.4308	30.91	-10.70	20.21	40.00	-19.79	-	-	QP
2	77.5928	36.38	-14.06	22.32	40.00	-17.68	-	-	QP
3	219.8449	37.63	-10.87	26.76	46.00	-19.24	-	-	QP
4	307.8313	33.34	-7.28	26.06	46.00	-19.94	-	-	QP
5	455.9058	31.08	-4.73	26.35	46.00	-19.65	-	-	QP
6	827.4934	32.90	0.31	33.21	46.00	-12.79	-	-	QP

Remark: ‘-’Means’ the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

***** END OF REPORT *****