

TEST REPORT

Reference No...... : WTD24X05113214W001
FCC ID..... : 2AXCJ-VAN-W4F-3IN1
Applicant..... : VANTAGE CITY GROUP LIMITED
Address..... : RM701, 7/F, World-Wide House, 19 Des Voeux Road, Central, HongKong,
China
Manufacturer..... : The same as Applicant
Address..... : The same as Applicant
Product Name..... : Multi function wireless charger
Model No...... : VAN-W4F-3 in1-01FP (B)/ VAN-W4F-3 in1-02FT(B)
Standards..... : FCC Part 15.207&15.209
Date of Receipt sample..... : 2024-05-16
Date of Test..... : 2024-05-16 to 2024-05-28
Date of Issue..... : 2024-05-28
Test Report Form No...... : WTX_Part 15_207_209W
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 approver.

Prepared By:

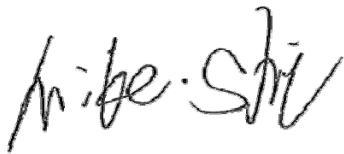
Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,

Block 70 Bao'an District, Shenzhen, Guangdong, China

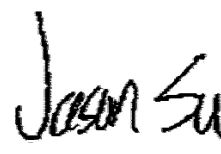
Tel.: +86-755-33663308 Fax.: +86-755-33663309 Email: sem@waltek.com.cn

Tested by:



Mike Shi

Approved by:



Jason Su

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Report version

Version No.	Date of issue	Description
Rev.00	2024-05-28	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Multi function wireless charger
Trade Name:	VAN ELEK
Model No.:	VAN-W4F-3 in1-01FP (B)/ VAN-W4F-3 in1-02FT(B)
Adding Model(s):	VAN-W4F-3 in 1-01FP(W)/ VAN-W4F-3 in 1-02FT(W), VAN-W4F-3 in 1-01FP(BEI)/VAN-W4F-3 in 1-02FT(BEI), VAN-W4F-3 in 1-01FP (G)/ VAN-W4F-3 in 1-02FT(G)
Rated Voltage:	/
Power Adapter Model:	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model VAN-W4F-3 in1-01FP (B)/ VAN-W4F-3 in1-02FT(B), but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	113~327kHz
Modulation Type:	ASK
Antenna Type:	Coil Antenna
Input:	DC9V/4.0A
Wireless output:	Phone/Earphone/Watch: 10W/5W/3W
Adapter	Model:VAN-USAD-3609-F-DC Input:100-240V~50/60Hz, 1.0A Output:DC9V,4.0A

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.207: Conducted limits.

FCC Rules Part 15.209: Radiated emission limits; general requirements.

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

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, 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 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, Block 70 Bao'an District, Shenzhen, Guangdong, China

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 and the CAB identifier is CN0057.

1.5 EUT Setup and Operation Mode

The equipment under test (EUT) was configured to measure its highest possible emission. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode List			
Test Mode	Description	Remark	Power Supply Mode
TM1	Wireless charging	Phone: Wireless output(10W)	DC9V/4.0A
TM2	Wireless charging	Earphone: Wireless output(5W)	DC9V/4.0A
TM3	Wireless charging	Watch: Wireless output(3W)	DC9V/4.0A
TM4	Wireless charging	Phone: Wireless output(10W)+ Earphone: Wireless output(5W)+ Watch: Wireless output(3W)	DC9V/4.0A

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
DC CABLE	1.5	Unshielded	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
Wireless charging tester	/	YBZ	/
Wireless charging tester	/	HC-RX-20231001	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Conducted Emissions	Conducted	9-150kHz ±3.74dB
		0.15-30MHz ±3.34dB
Radiated Emissions	Radiated	30-200MHz ±4.52dB
		0.2-1GHz ±5.56dB
		1-6GHz ±3.84dB
		6-18GHz ±3.92dB

1.7 Test Equipment List and Details

Fixed asset Number	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
WTXE1005A 1005	Spectrum Analyzer	Agilent	N9020A	US471401 02	2024-03-19	2025-03-18
WTXE1004A 1-001	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2024-02-27	2025-02-26
☐ Chamber A: Below 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1007A 1001	Amplifier	HP	8447F	2805A034 75	2024-02-24	2025-02-23
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
WTXE1010A 1006	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2024-02-24	2025-02-23
☐ Chamber A: Above 1GHz						
WTXE1005A 1003	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/03 5	2024-02-24	2025-02-23
WTXE1001A 1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2024-03-19	2025-03-18
WTXE1065A 1001	Amplifier	C&D	PAP-1G18	2002	2024-02-27	2025-02-26
WTXE1010A 1005	Horn Antenna	ETS	3117	00086197	2024-02-26	2025-02-25
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
☐ Chamber B:Below 1GHz						
WTXE1010A 1006	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2024-03-17	2027-03-16
WTXE1038A 1001	Amplifier	Agilent	8447D	2944A104 57	2024-02-24	2025-02-23
WTXE1001A 1002	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2024-02-24	2025-02-23
☒ Chamber C:Below 1GHz						

WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1010A 1013-1	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2024-04-18	2027-04-17
WTXE1007A 1002	Amplifier	HP	8447F	2944A038 69	2024-02-24	2025-02-23
WTXE1010A 1007	Loop Antenna	Schwarz beck	FMZB 1516	9773	2024-02-26	2025-02-25
☒ Chamber C: Above 1GHz						
WTXE1093A 1001	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2024-02-27	2025-02-26
WTXE1103A 1005	Horn Antenna	POAM	RTF-118A	1820	2023-03-10	2026-03-09
WTXE1103A 1006	Amplifier	Tonscend	TAP01018050	AP22E806 235	2024-02-27	2025-02-26
WTXE1010A 1010	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2024-03-17	2025-03-16
WTXE1003A 1001	Pre-amplifier	Schwarzbeck	BBV 9721	9721-031	2024-02-29	2025-02-28
☐ Conducted Room 1#						
WTXE1104A 1029	EMI Test Receiver	Rohde & Schwarz	ESCI	100525	2023-12-12	2024-12-11
WTXE1002A 1001	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2024-02-24	2025-02-23
WTXE1003A 1001	AC LISN	Schwarz beck	NSLK8126	8126-279	2024-02-24	2025-02-23
☒ Conducted Room 2#						
WTXE1001A 1004	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2024-02-24	2025-02-23
WTXE1003A 1003	LISN	Rohde & Schwarz	ENV 216	100097	2024-02-24	2025-02-23

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission Room 1#)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission Room 2#)*	SKET	EMC-I	V2.0

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

2. SUMMARY OF TEST RESULTS

Description of Test	Result
§15.203Antenna Requirement	Compliant
§15.207 (a) Conducted Emission	Compliant
§15.209 Radiated Emission	Compliant

N/A: not applicable.

3. Antenna Requirement

3.1 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.

3.2 Test Result

This product has a Coil Antenna, fulfill the requirement of this section.

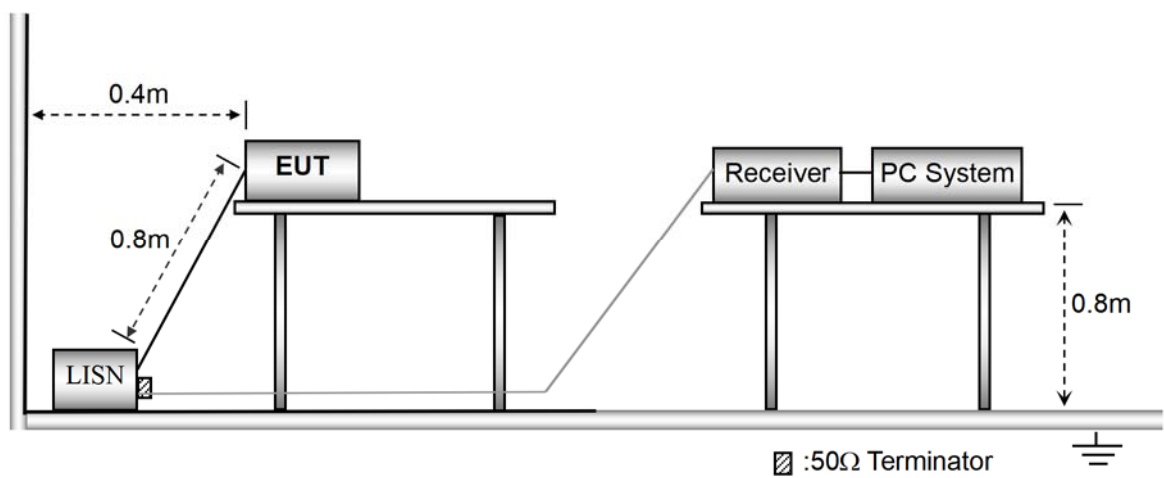
4. Conducted Emissions

4.1 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 40cm long in the middle. The spacing between the peripherals was 10cm.

4.2 Basic Test Setup Block Diagram

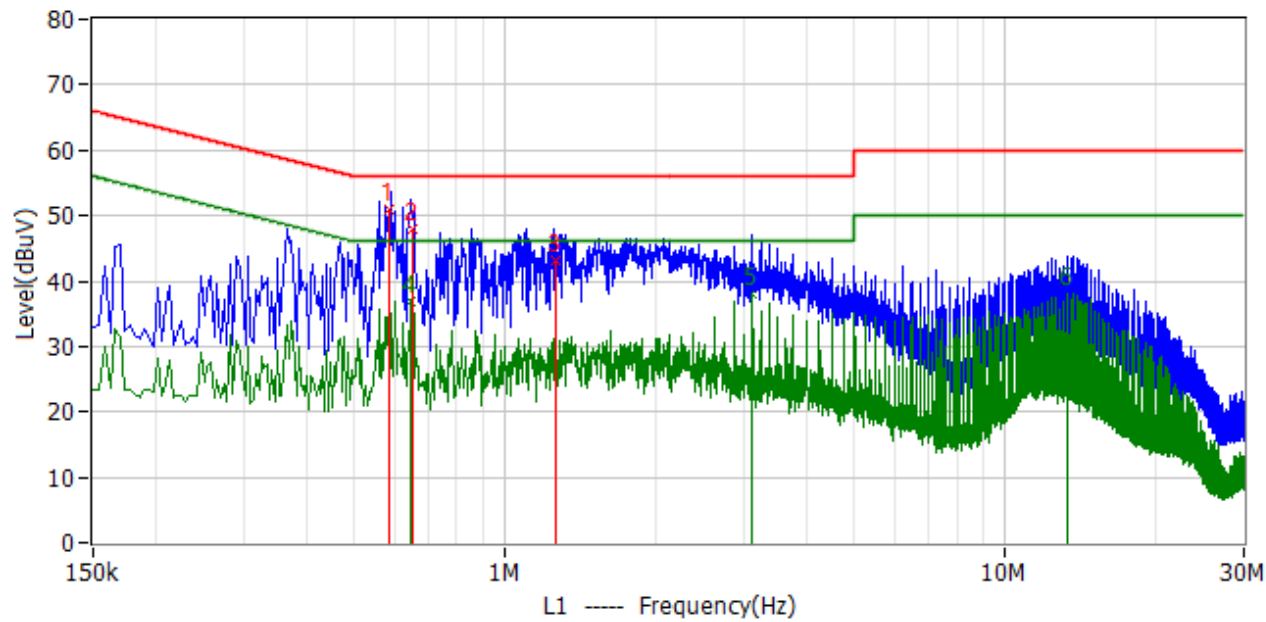


4.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	45 %
ATM Pressure:	1011 mbar

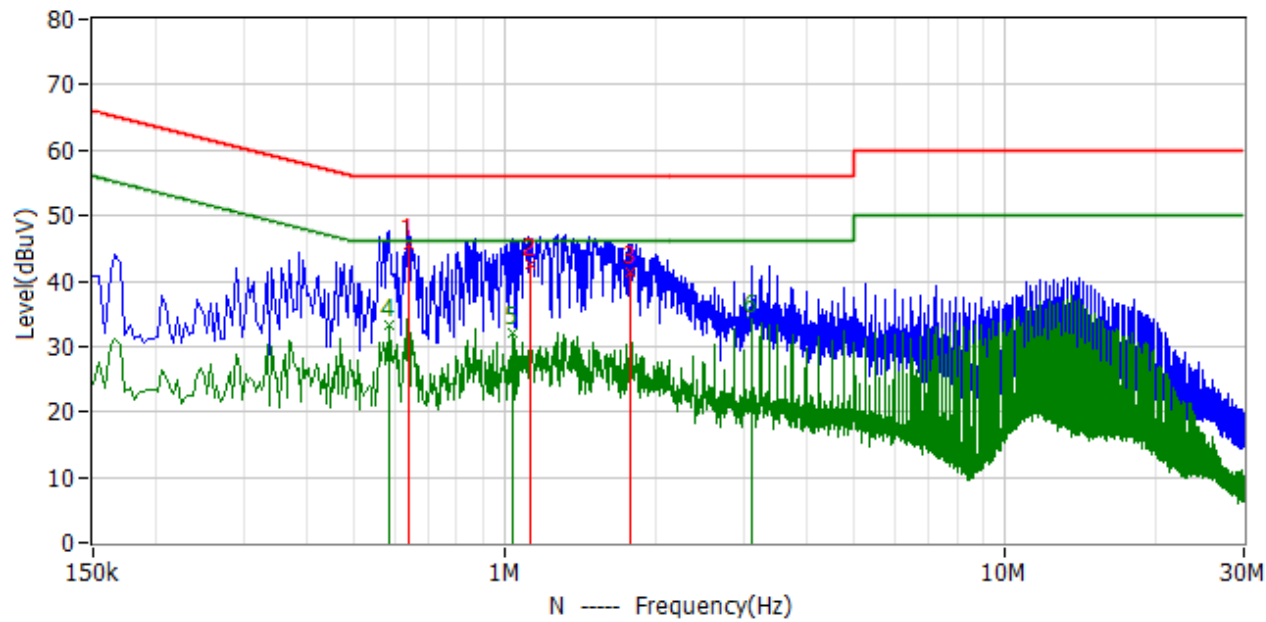
4.4 Summary of Test Results/Plots

Test mode:	TM1	Polarity:	Line
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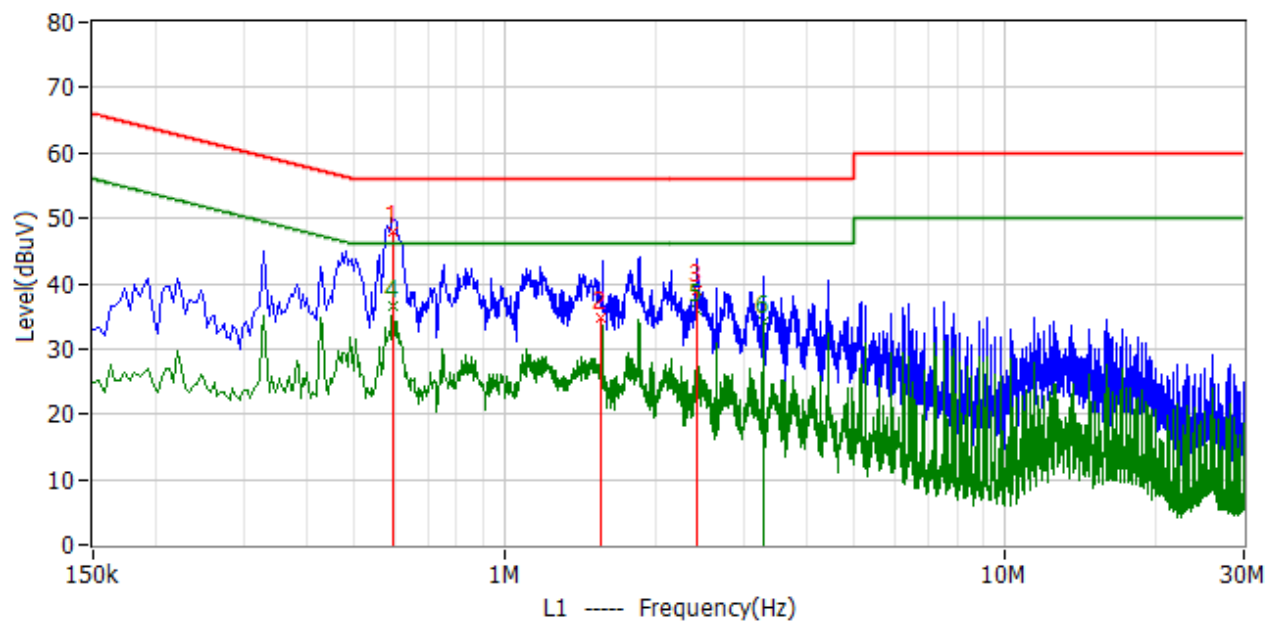
No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Delta dB	Detector
1	586.000kHz	41.1	9.7	50.8	56.0	-5.2	QP
2	654.000kHz	38.1	9.7	47.8	56.0	-8.2	QP
3	1.262MHz	33.3	9.8	43.1	56.0	-12.9	QP
4*	650.000kHz	27.3	9.7	37.0	46.0	-9.0	AV
5*	3.126MHz	28.1	9.9	38.0	46.0	-8.0	AV
6*	13.370MHz	28.4	9.8	38.2	50.0	-11.8	AV

Test mode:	TM1	Polarity:	Neutral
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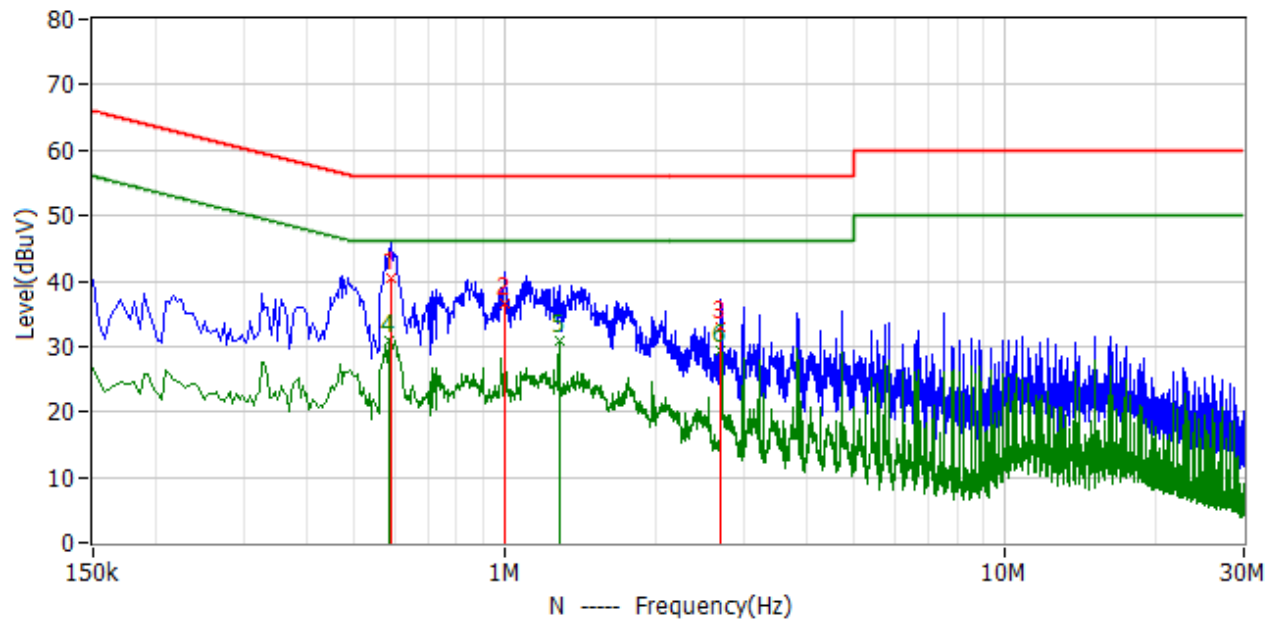
No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Delta dB	Detector
1	642.000kHz	35.7	9.7	45.4	56.0	-10.6	QP
2	1.118MHz	32.7	9.7	42.4	56.0	-13.6	QP
3	1.778MHz	31.7	9.7	41.4	56.0	-14.6	QP
4*	586.000kHz	23.6	9.7	33.3	46.0	-12.7	AV
5*	1.038MHz	22.4	9.7	32.1	46.0	-13.9	AV
6*	3.122MHz	24.2	9.8	34.0	46.0	-12.0	AV

Test mode:	TM2	Polarity:	Line
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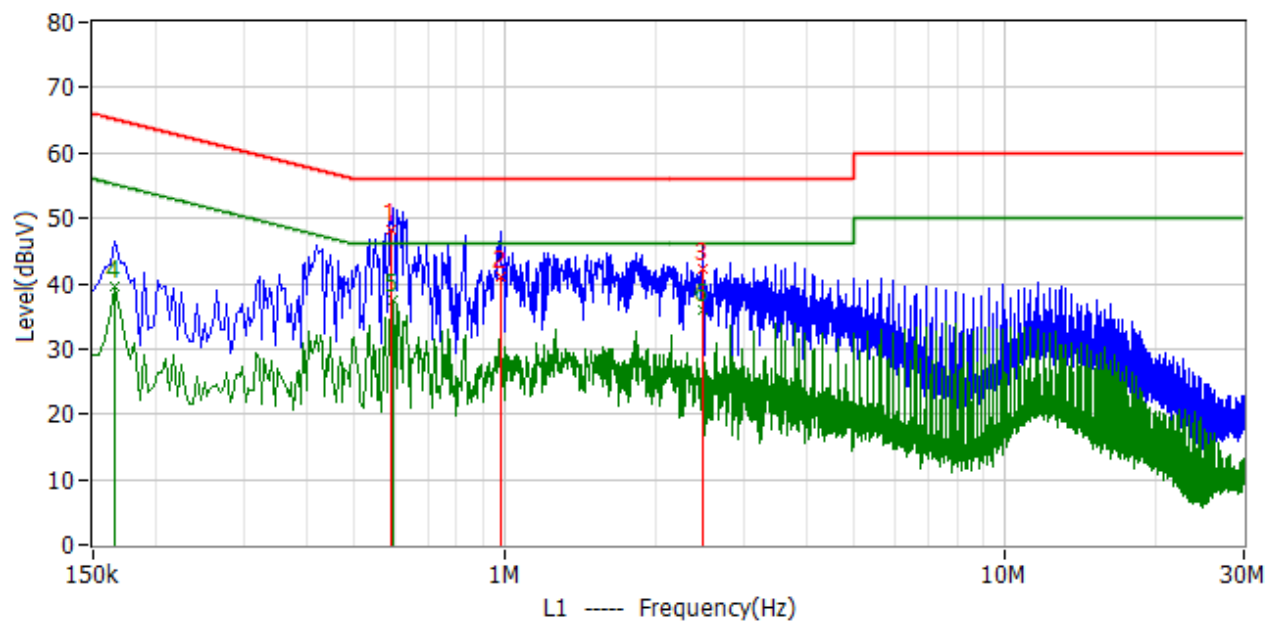
No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Delta dB	Detector
1	598.000kHz	38.1	9.7	47.8	56.0	-8.2	QP
2	1.554MHz	25.0	9.8	34.8	56.0	-21.2	QP
3	2.422MHz	29.2	9.9	39.1	56.0	-16.9	QP
4*	598.000kHz	26.9	9.7	36.6	46.0	-9.4	AV
5*	2.422MHz	26.1	9.9	36.0	46.0	-10.0	AV
6*	3.278MHz	24.2	9.9	34.1	46.0	-11.9	AV

Test mode:	TM2	Polarity:	Neutral
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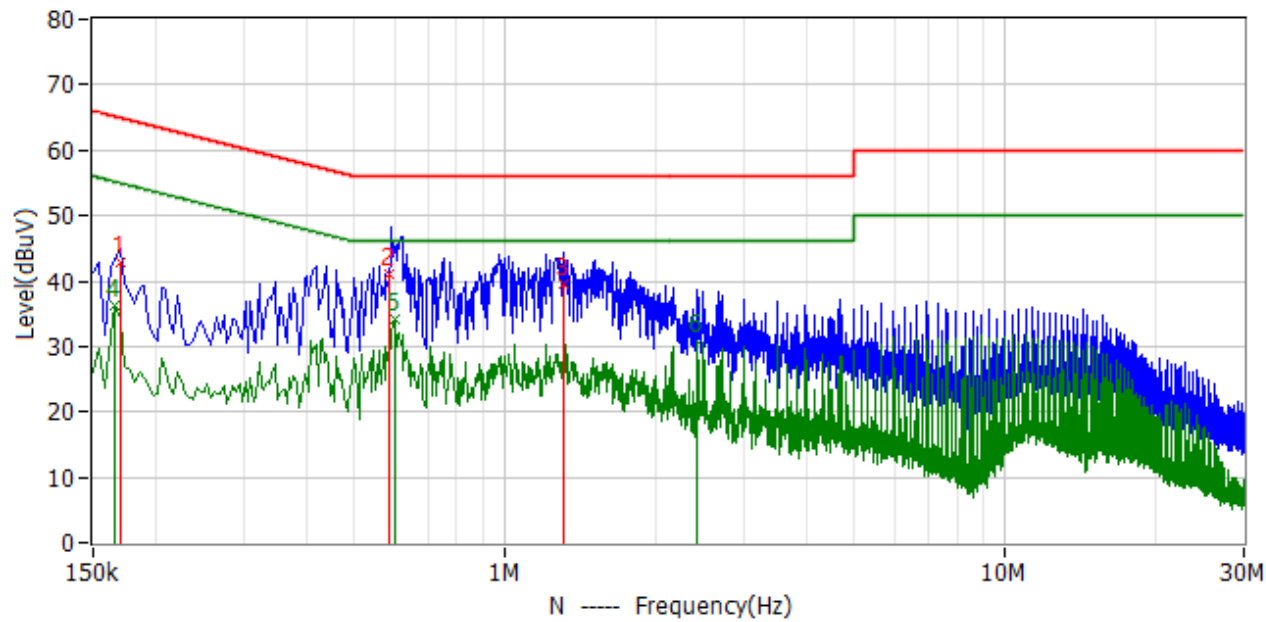
No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Delta dB	Detector
1	590.000kHz	30.8	9.7	40.5	56.0	-15.5	QP
2	998.000kHz	27.0	9.7	36.7	56.0	-19.3	QP
3	2.706MHz	23.4	9.7	33.1	56.0	-22.9	QP
4*	586.000kHz	21.3	9.7	31.0	46.0	-15.0	AV
5*	1.282MHz	21.2	9.7	30.9	46.0	-15.1	AV
6*	2.706MHz	19.6	9.7	29.3	46.0	-16.7	AV

Test mode:	TM3	Polarity:	Line
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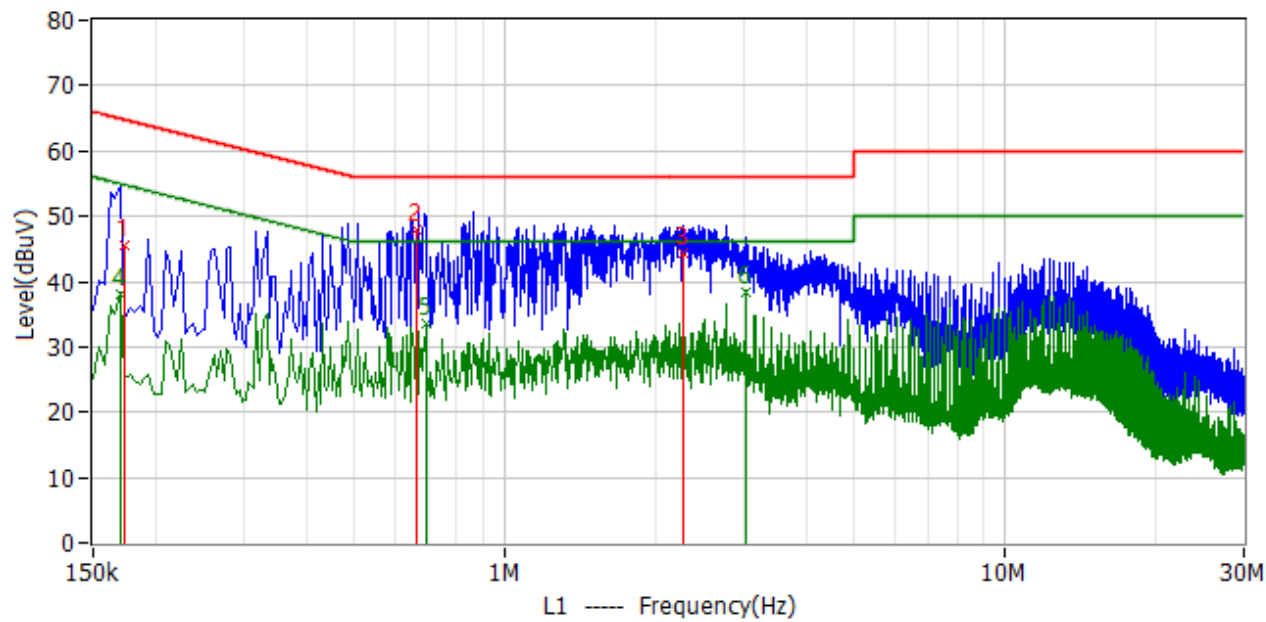
No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Delta dB	Detector
1	594.000kHz	38.6	9.7	48.3	56.0	-7.7	QP
2	978.000kHz	31.2	9.8	41.0	56.0	-15.0	QP
3	2.494MHz	32.4	9.9	42.3	56.0	-13.7	QP
4*	166.000kHz	29.8	9.8	39.6	55.2	-15.5	AV
5*	598.000kHz	27.8	9.7	37.5	46.0	-8.5	AV
6*	2.482MHz	26.0	9.9	35.9	46.0	-10.1	AV

Test mode:	TM3	Polarity:	Neutral
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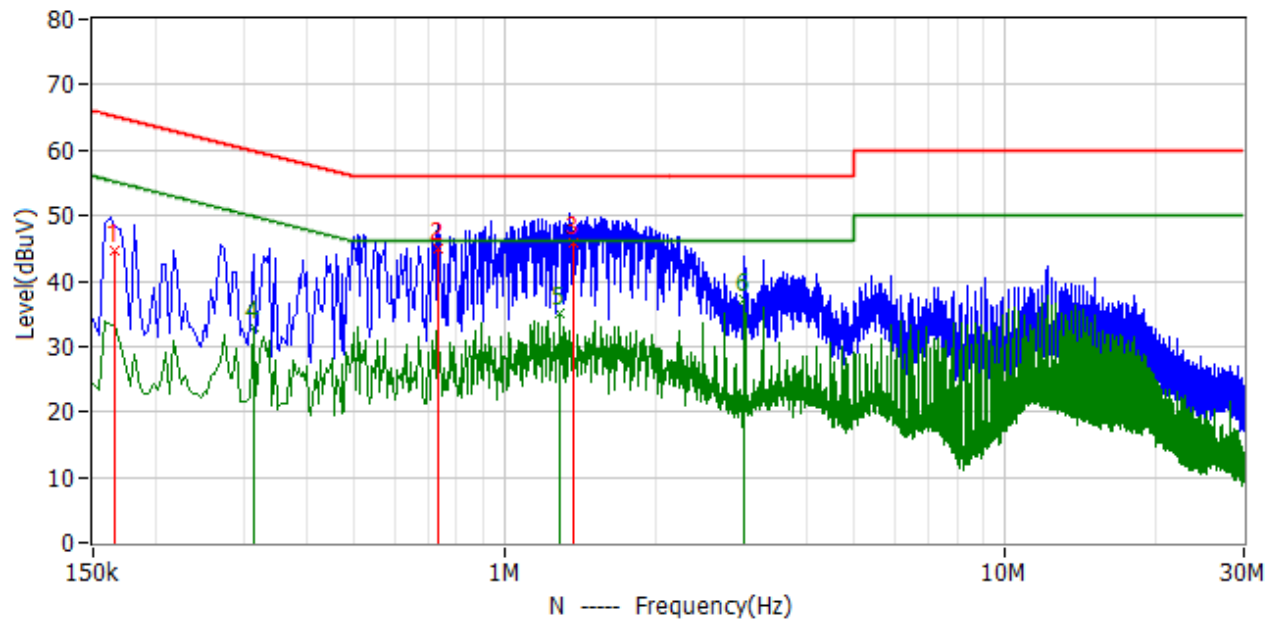
No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Delta dB	Detector
1	170.000kHz	33.0	9.7	42.7	65.0	-22.3	QP
2	586.000kHz	31.3	9.7	41.0	56.0	-15.0	QP
3	1.310MHz	29.8	9.7	39.5	56.0	-16.5	QP
4*	166.000kHz	26.5	9.7	36.2	55.2	-18.9	AV
5*	602.000kHz	24.6	9.7	34.3	46.0	-11.7	AV
6*	2.426MHz	21.1	9.7	30.8	46.0	-15.2	AV

Test mode:	TM4	Polarity:	Line
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No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Delta dB	Detector
1	174.000kHz	35.8	9.8	45.6	64.8	-19.2	QP
2	666.000kHz	38.1	9.7	47.8	56.0	-8.2	QP
3	2.262MHz	34.4	9.9	44.3	56.0	-11.7	QP
4*	170.000kHz	28.4	9.8	38.2	55.0	-16.7	AV
5*	694.000kHz	23.9	9.7	33.6	46.0	-12.4	AV
6*	3.026MHz	28.6	9.9	38.5	46.0	-7.5	AV

Test mode:	TM4	Polarity:	Neutral
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No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Delta dB	Detector
1	166.000kHz	34.9	9.7	44.6	65.2	-20.5	QP
2	734.000kHz	35.1	9.7	44.8	56.0	-11.2	QP
3	1.366MHz	36.1	9.7	45.8	56.0	-10.2	QP
4*	314.000kHz	23.1	10.0	33.1	49.9	-16.8	AV
5*	1.290MHz	25.4	9.7	35.1	46.0	-10.9	AV
6*	3.014MHz	27.3	9.8	37.1	46.0	-8.9	AV

5. RADIATED EMISSION

5.1 Standard Applicable

According to 15.209(a), radiated emission limits; general requirements.

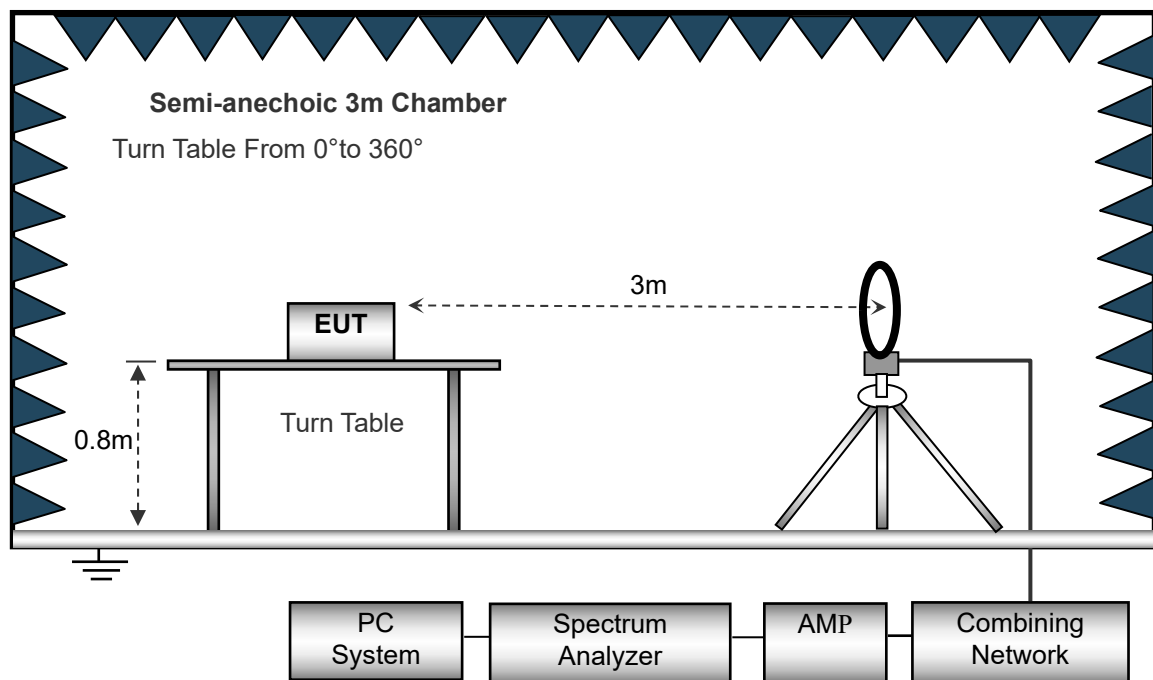
Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

5.2 Test Procedure

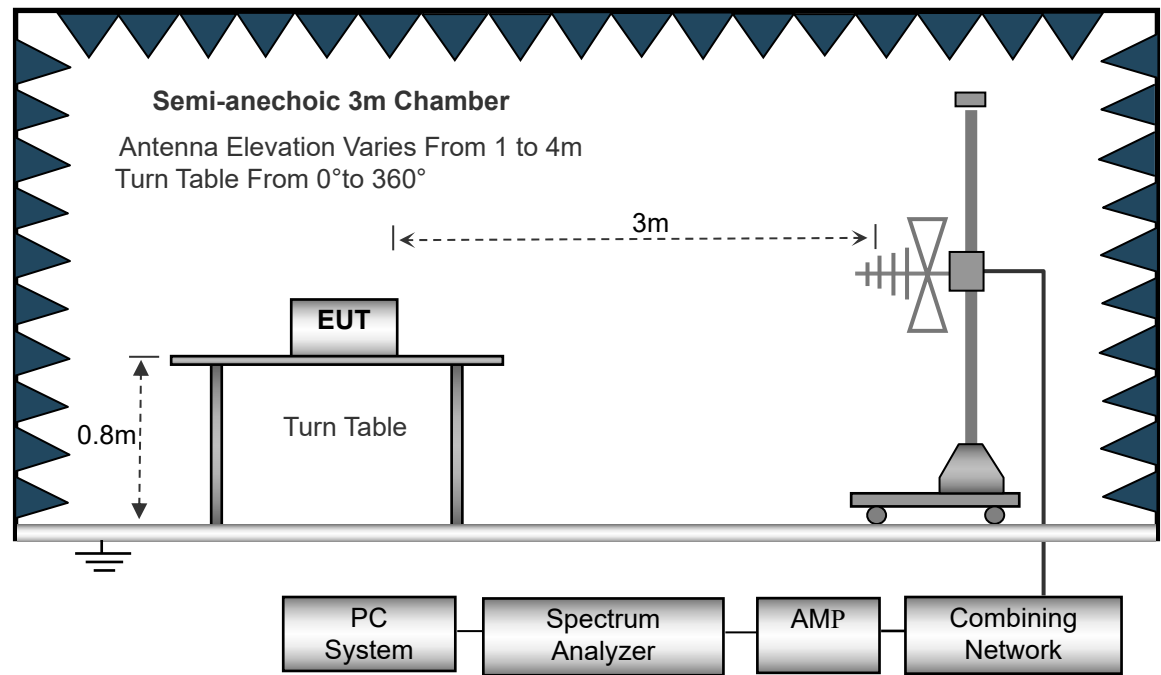
The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

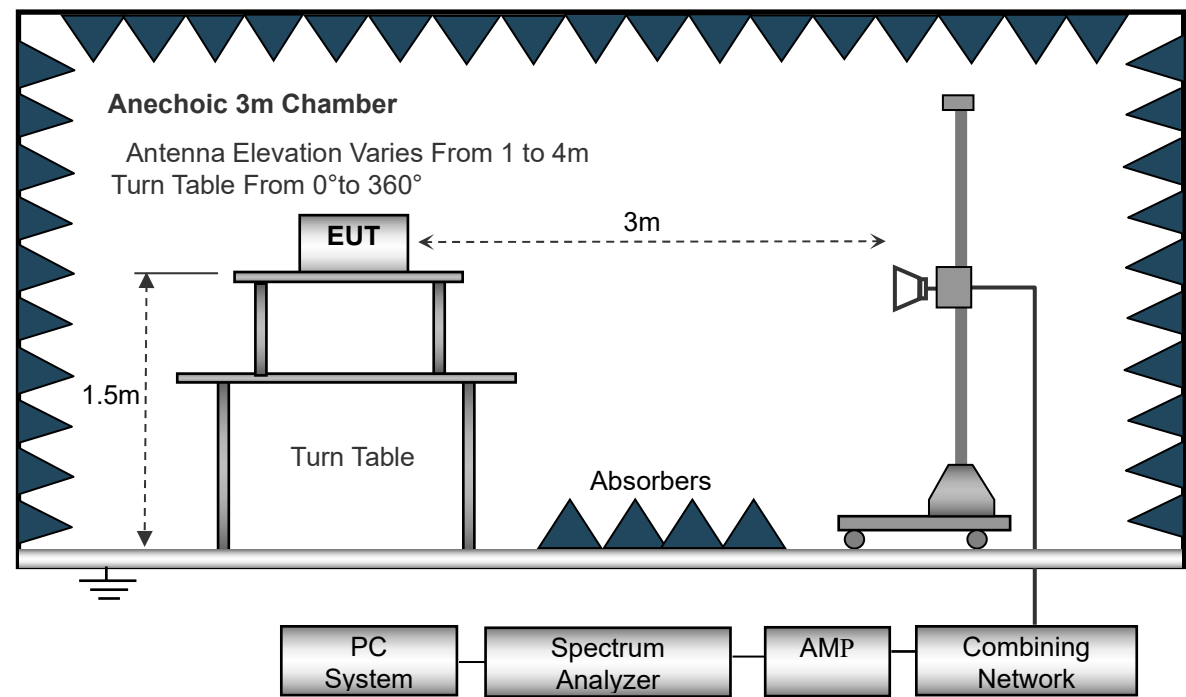
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1GHz.



5.3 Test Receiver Setup

Frequency :9kHz-30MHz

RBW=10kHz,

VBW =30kHz

Sweep time= Auto

Trace = max hold

Detector function = peak

Frequency :30MHz-1GHz

RBW=120kHz,

VBW=300kHz

Sweep time= Auto

Trace = max hold

Detector function = peak, QP

Frequency :Above 1GHz

RBW=1MHz,

VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

Trace = max hold

Detector function = peak, AV

5.4 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} - \text{Corr. Factor}$$

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

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15.209(a) Limit}$$

5.5 Environmental Conditions

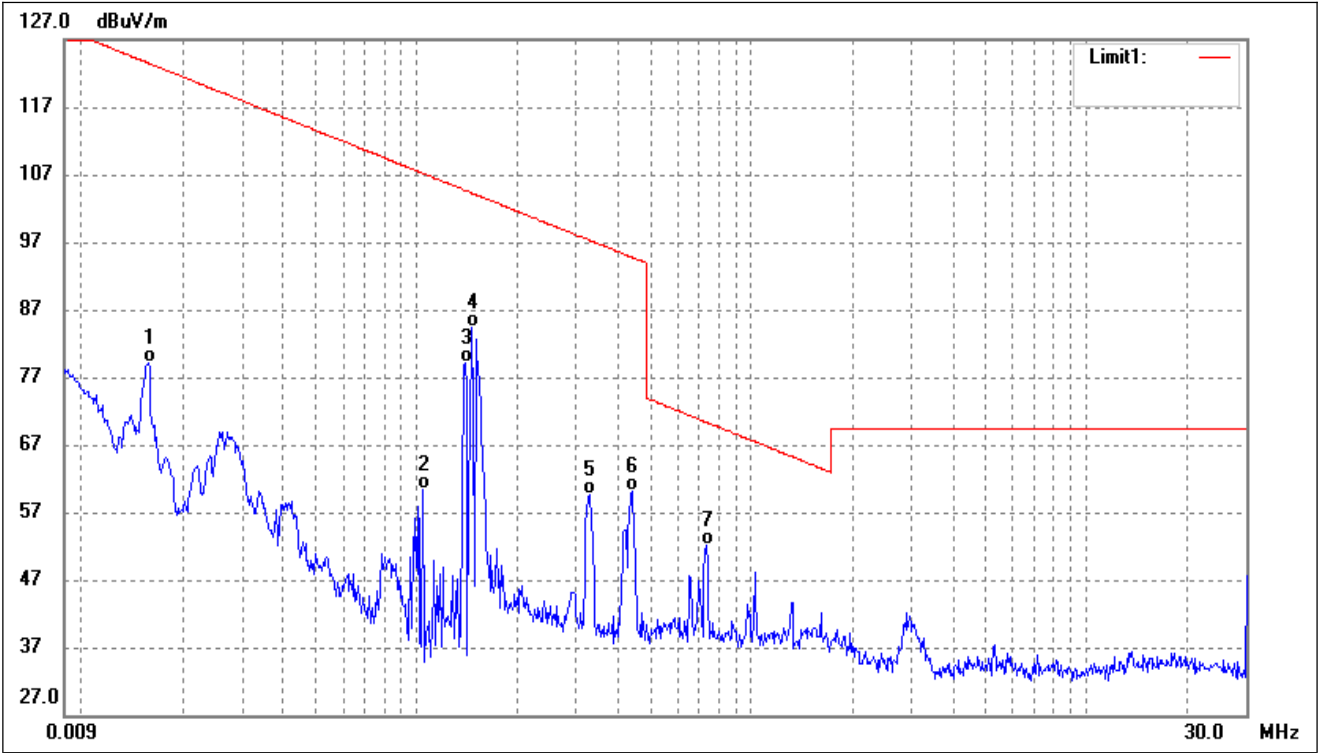
Temperature:	25 °C
Relative Humidity:	55 %
ATM Pressure:	1011 mbar

5.6 Summary of Test Results/Plots

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

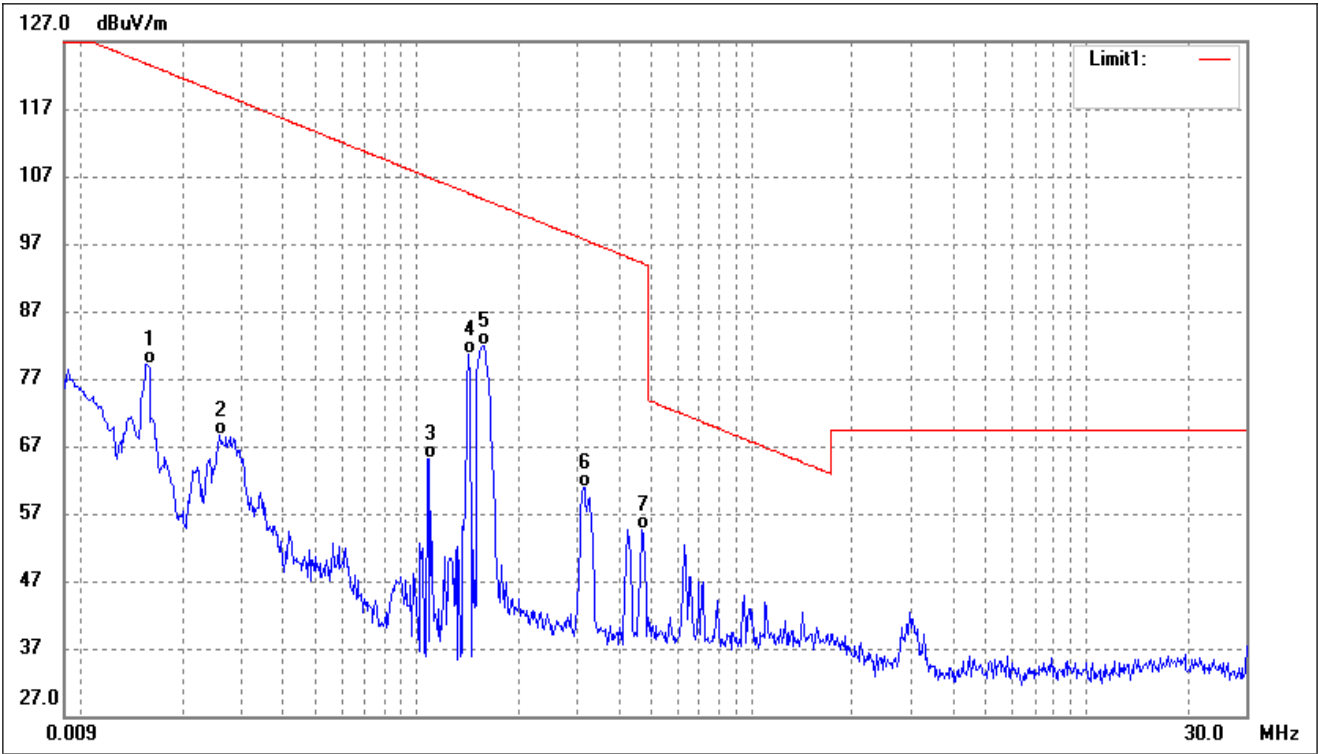
➤ Below 30MHz

Test mode:	TM1	Polarity:	Horizontal
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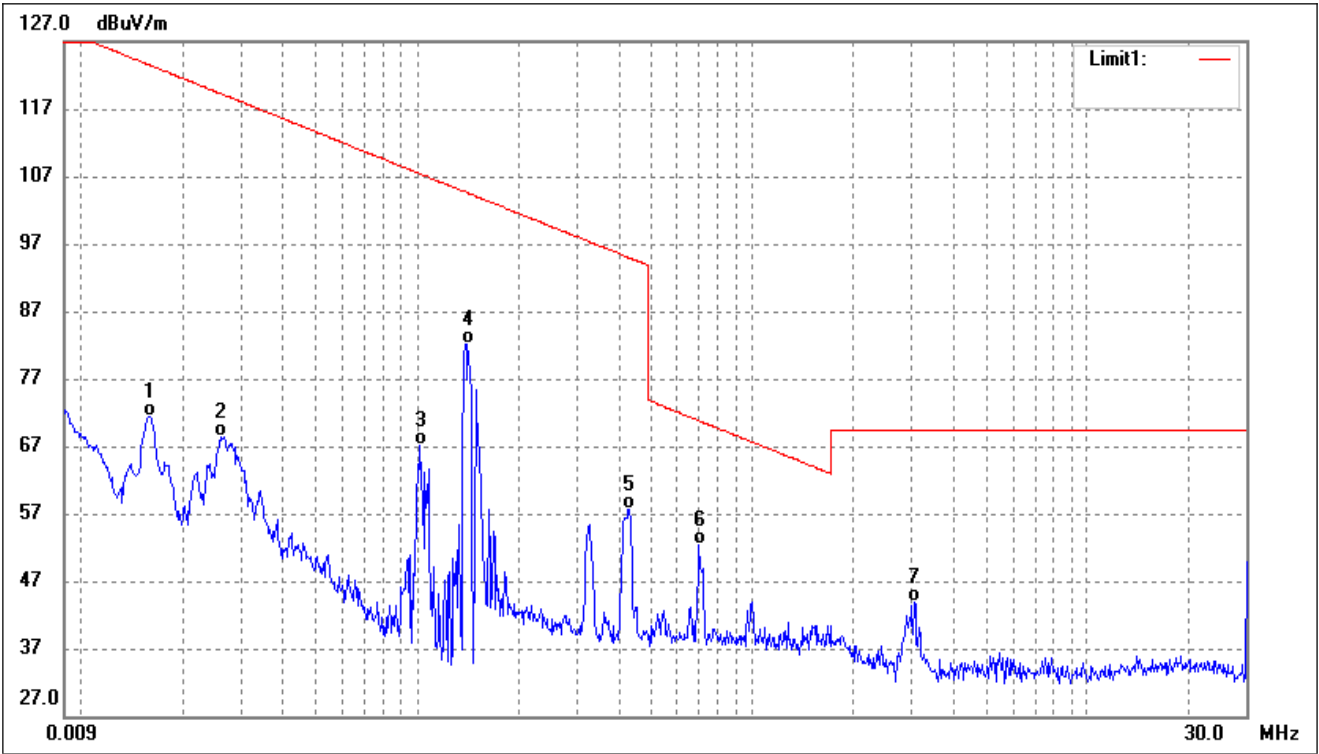
No.	Frequency (MHz)	Reading (dBuA)	Correct dB	Result (dBuA)	Limit (dBuA)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0158	86.03	-7.02	79.01	123.53	-44.52	-	-	QP
2	0.1041	66.93	-6.59	60.34	107.21	-46.87	-	-	QP
3	0.1389	85.50	-6.39	79.11	104.71	-25.60	-	-	QP
4	0.1457	90.61	-6.35	84.26	104.30	-20.04	-	-	QP
5	0.3268	67.49	-7.80	59.69	97.31	-37.62	-	-	QP
6	0.4374	67.76	-7.64	60.12	94.78	-34.66	-	-	QP
7	0.7273	52.06	0.00	52.06	70.38	-18.32	-	-	QP

Test mode:	TM2	Polarity:	Horizontal
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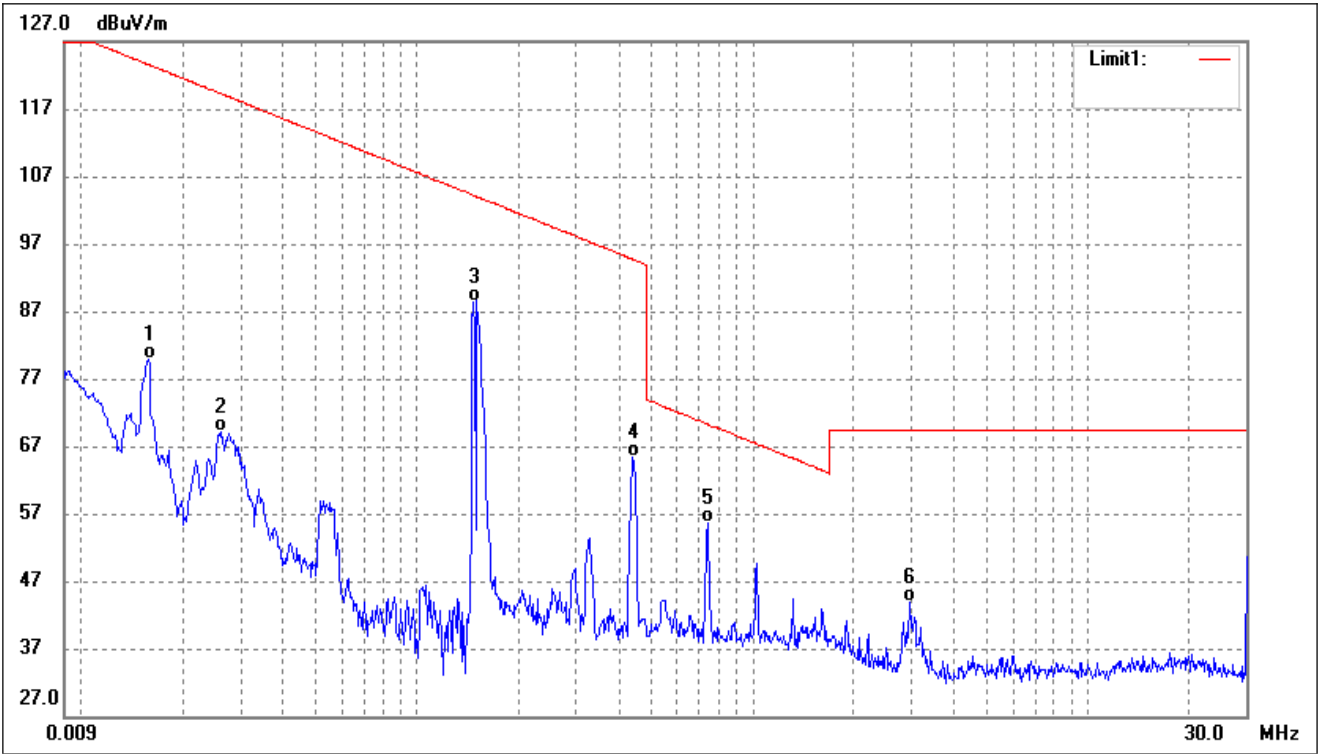
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuA)	dB	(dBuA)	(dBuA)	(dB)	()	(cm)	
1	0.0157	86.10	-7.02	79.08	123.67	-44.59	-	-	QP
2	0.0259	75.45	-6.73	68.72	119.32	-50.60	-	-	QP
3	0.1076	71.65	-6.56	65.09	106.96	-41.87	-	-	QP
4	0.1426	86.97	-6.37	80.60	104.52	-23.92	-	-	QP
5	0.1573	88.28	-6.43	81.85	103.66	-21.81	-	-	QP
6	0.3133	68.68	-7.81	60.87	97.68	-36.81	-	-	QP
7	0.4711	62.15	-7.59	54.56	94.14	-39.58	-	-	QP

Test mode:	TM3	Polarity:	Horizontal
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuA)	dB	(dBuA)	(dBuA)	(dB)	()	(cm)	
1	0.0158	78.51	-7.02	71.49	123.61	-52.12	-	-	QP
2	0.0260	75.11	-6.72	68.39	119.29	-50.90	-	-	QP
3	0.1023	73.72	-6.60	67.12	107.40	-40.28	-	-	QP
4	0.1398	88.45	-6.38	82.07	104.69	-22.62	-	-	QP
5	0.4282	65.34	-7.65	57.69	94.97	-37.28	-	-	QP
6	0.6936	58.97	-6.66	52.31	70.79	-18.48	-	-	QP
7	3.0576	49.79	-6.02	43.77	69.50	-25.73	-	-	QP

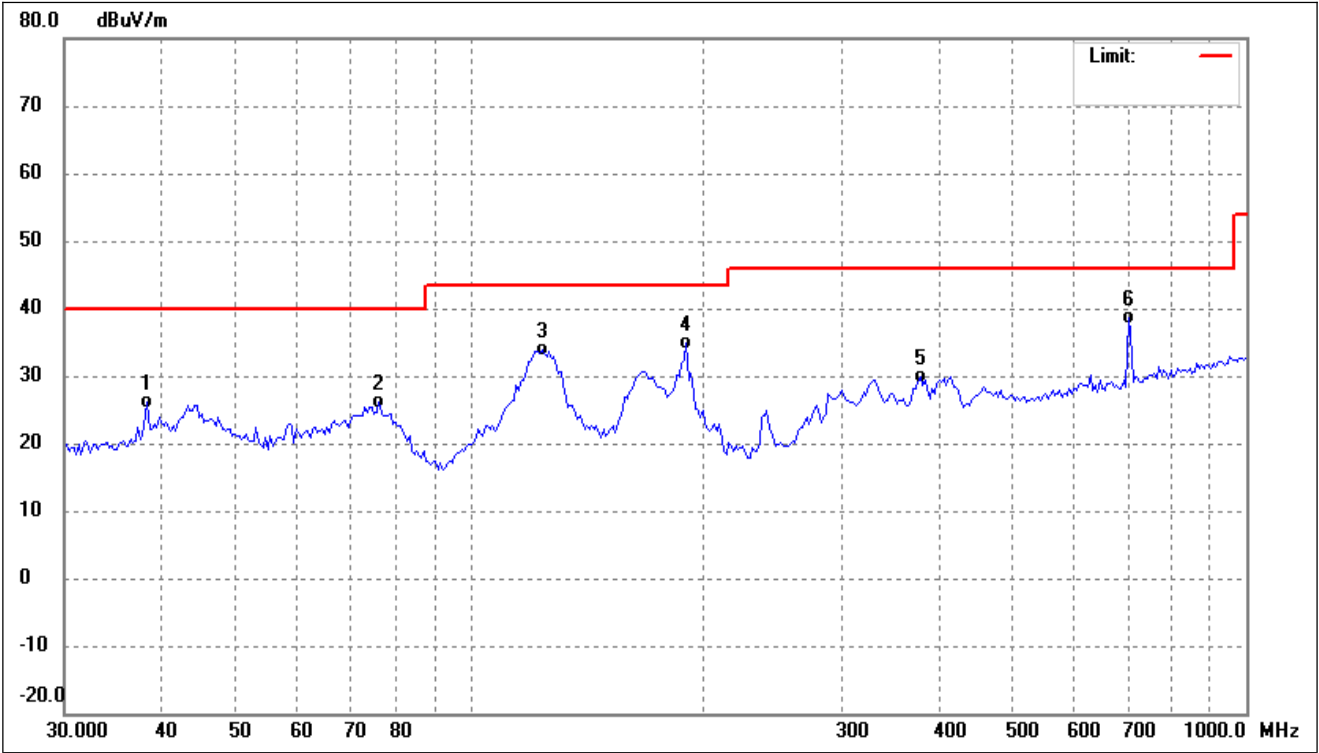
Test mode:	TM4	Polarity:	Horizontal
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuA)	dB	(dBuA)	(dBuA)	(dB)	()	(cm)	
1	0.0158	86.82	-7.02	79.80	123.61	-43.81	-	-	QP
2	0.0262	75.90	-6.71	69.19	119.22	-50.03	-	-	QP
3	0.1474	94.67	-6.35	88.32	104.23	-15.91	-	-	QP
4	0.4421	73.01	-7.63	65.38	94.69	-29.31	-	-	QP
5	0.7352	62.21	-6.47	55.74	70.29	-14.55	-	-	QP
6	2.9463	49.97	-6.02	43.95	69.50	-25.55	-	-	QP

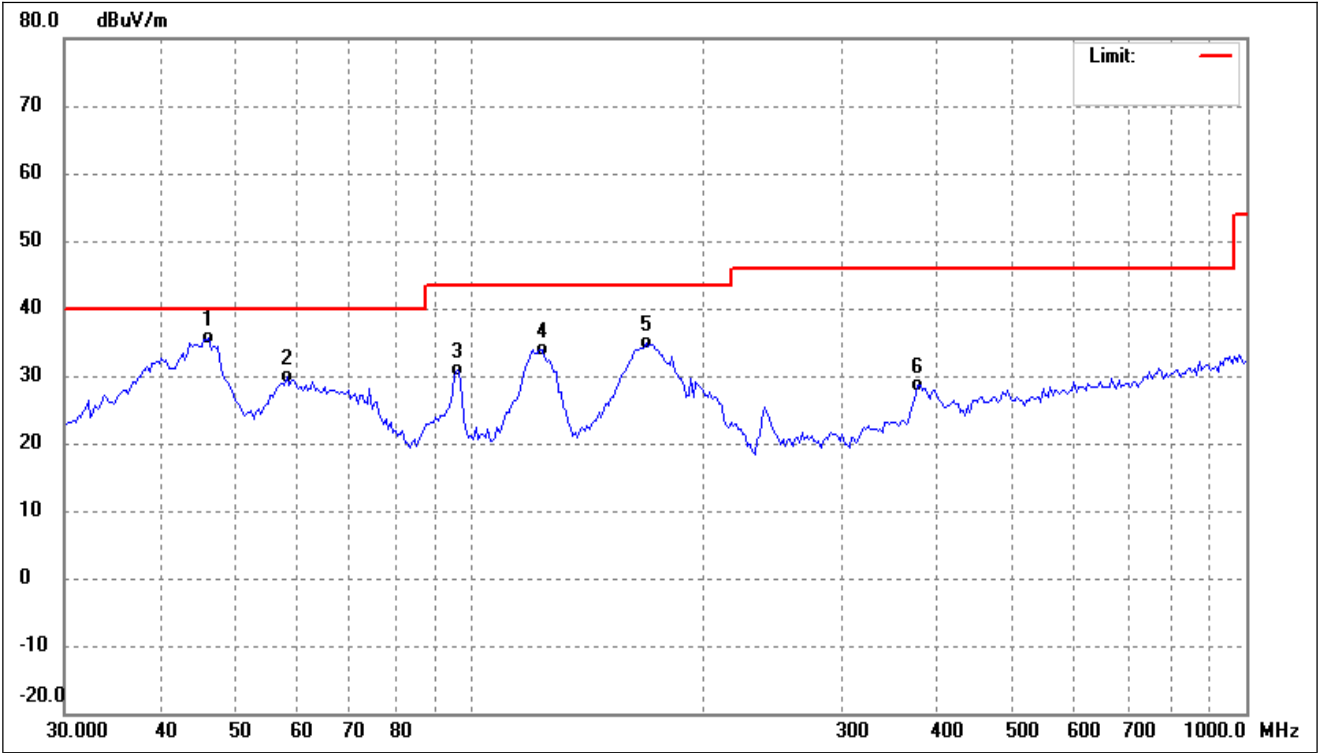
➤ 30MHz-1GHz

Test mode:	TM1	Polarity:	Horizontal
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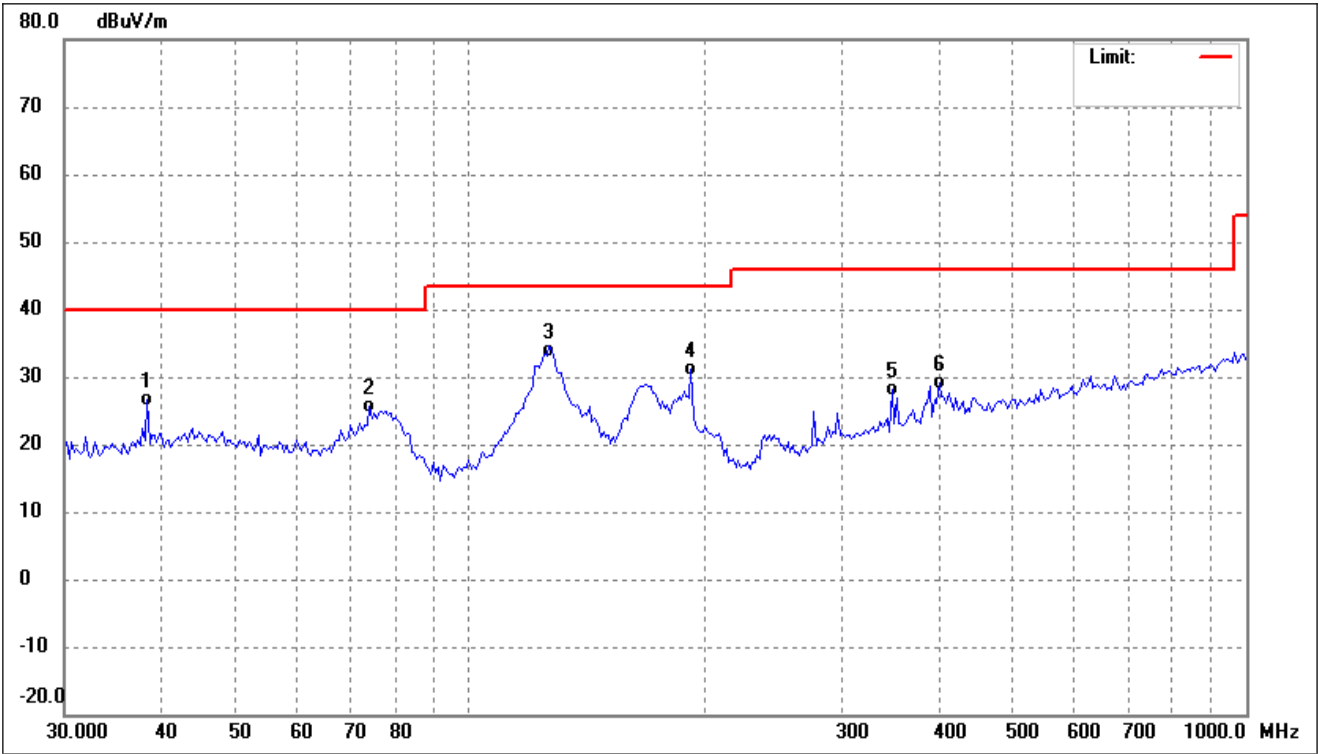
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.3462	34.84	-8.83	26.01	40.00	-13.99	-	-	QP
2	76.2442	38.25	-12.13	26.12	40.00	-13.88	-	-	QP
3	123.6985	44.08	-10.28	33.80	43.50	-9.70	-	-	QP
4	189.7385	46.17	-11.39	34.78	43.50	-8.72	-	-	QP
5	379.9141	36.16	-6.37	29.79	46.00	-16.21	-	-	QP
6	704.2261	39.66	-1.02	38.64	46.00	-7.36	-	-	QP

Test mode:	TM1	Polarity:	Vertical
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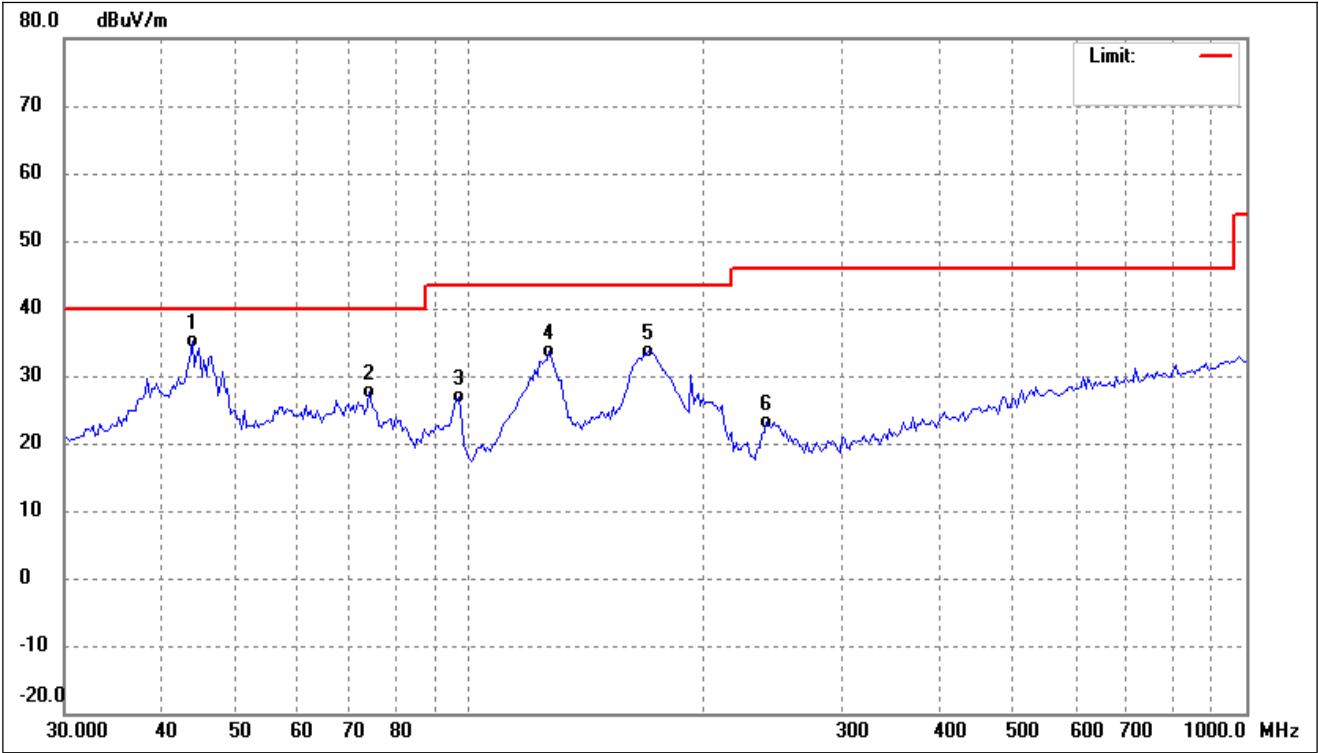
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	46.0164	43.92	-8.39	35.53	40.00	-4.47	-	-	QP
2	57.9993	38.69	-8.81	29.88	40.00	-10.12	-	-	QP
3	96.0986	43.73	-12.73	31.00	43.50	-12.50	-	-	QP
4	122.8340	44.29	-10.34	33.95	43.50	-9.55	-	-	QP
5	168.4138	43.70	-8.84	34.86	43.50	-8.64	-	-	QP
6	377.2591	35.13	-6.42	28.71	46.00	-17.29	-	-	QP

Test mode:	TM2	Polarity:	Horizontal
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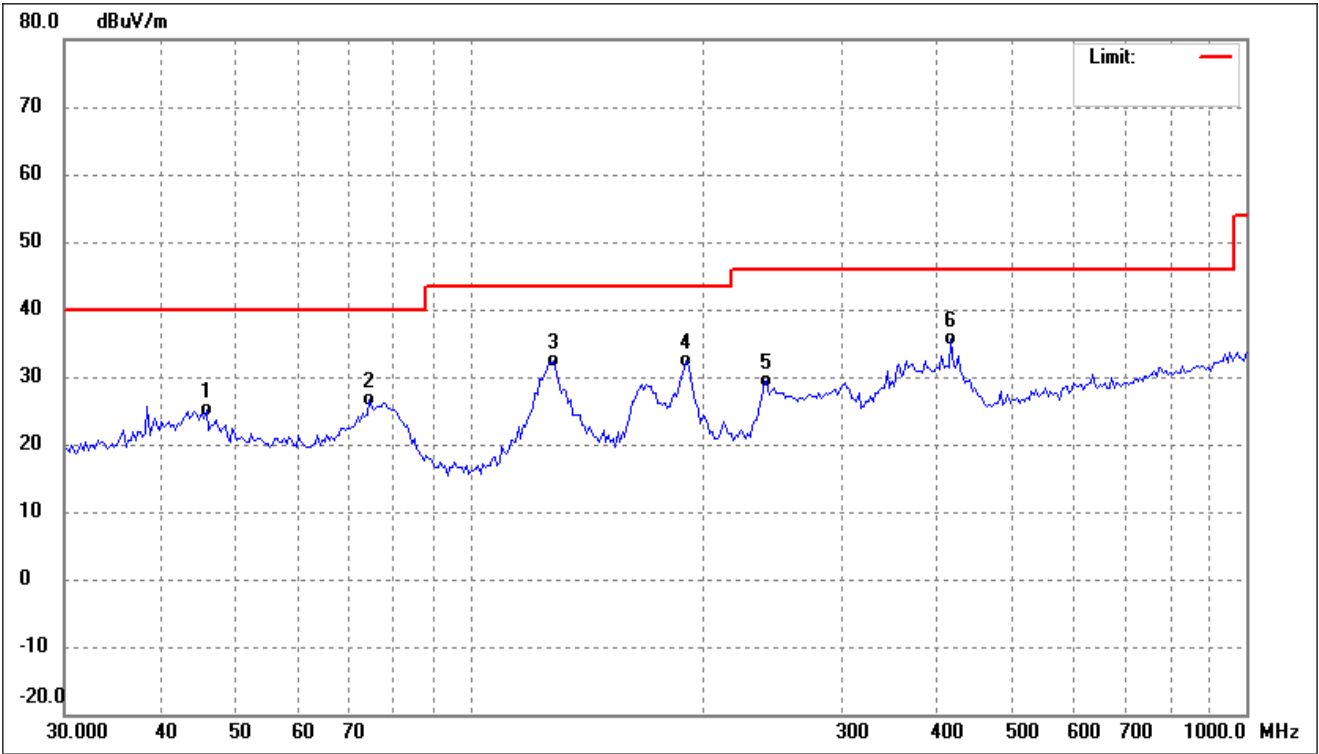
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.3462	35.58	-8.83	26.75	40.00	-13.25	-	-	QP
2	74.1351	37.22	-11.68	25.54	40.00	-14.46	-	-	QP
3	127.2176	43.84	-10.04	33.80	43.50	-9.70	-	-	QP
4	192.4186	42.74	-11.56	31.18	43.50	-12.32	-	-	QP
5	349.2500	35.28	-7.12	28.16	46.00	-17.84	-	-	QP
6	401.8385	35.14	-5.91	29.23	46.00	-16.77	-	-	QP

Test mode:	TM2	Polarity:	Vertical
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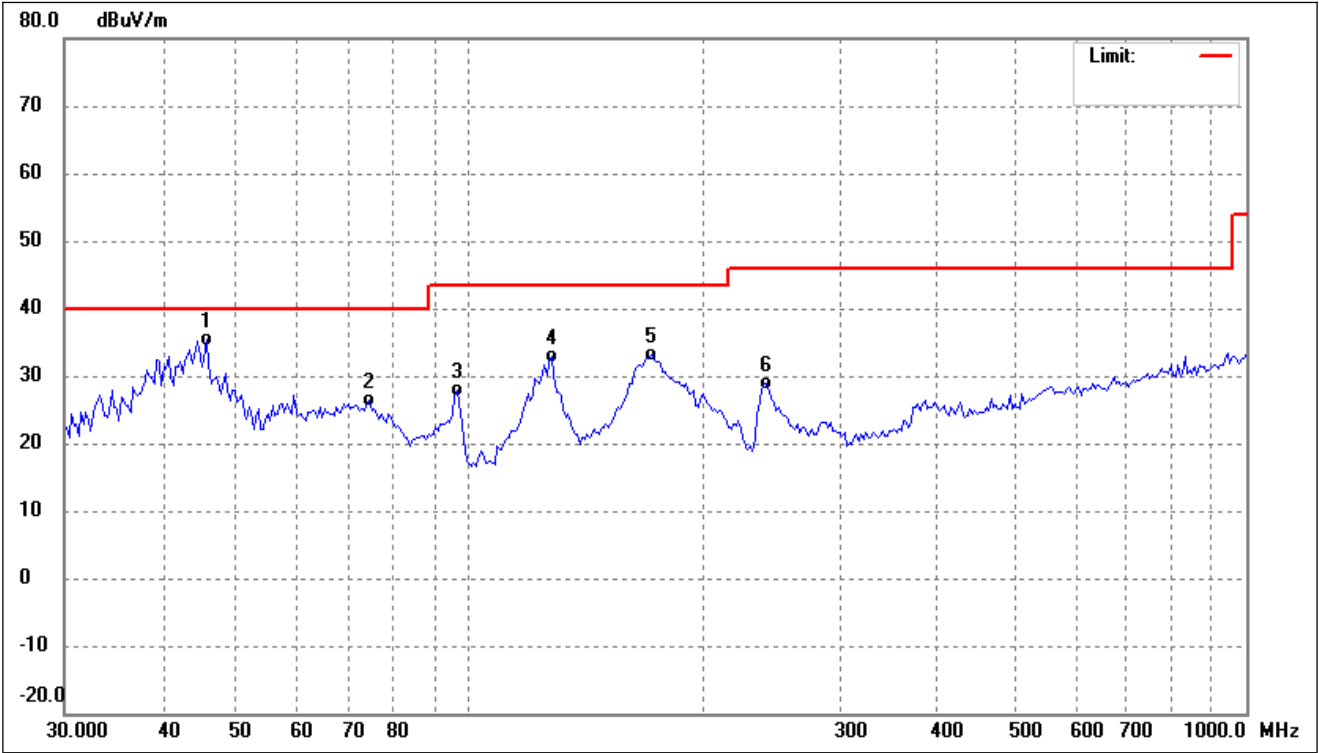
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	43.8119	43.59	-8.48	35.11	40.00	-4.89	-	-	QP
2	74.1351	39.39	-11.68	27.71	40.00	-12.29	-	-	QP
3	96.7749	39.60	-12.70	26.90	43.50	-16.60	-	-	QP
4	126.3286	43.76	-10.09	33.67	43.50	-9.83	-	-	QP
5	169.5990	42.60	-8.87	33.73	43.50	-9.77	-	-	QP
6	240.8304	33.67	-10.52	23.15	46.00	-22.85	-	-	QP

Test mode:	TM3	Polarity:	Horizontal
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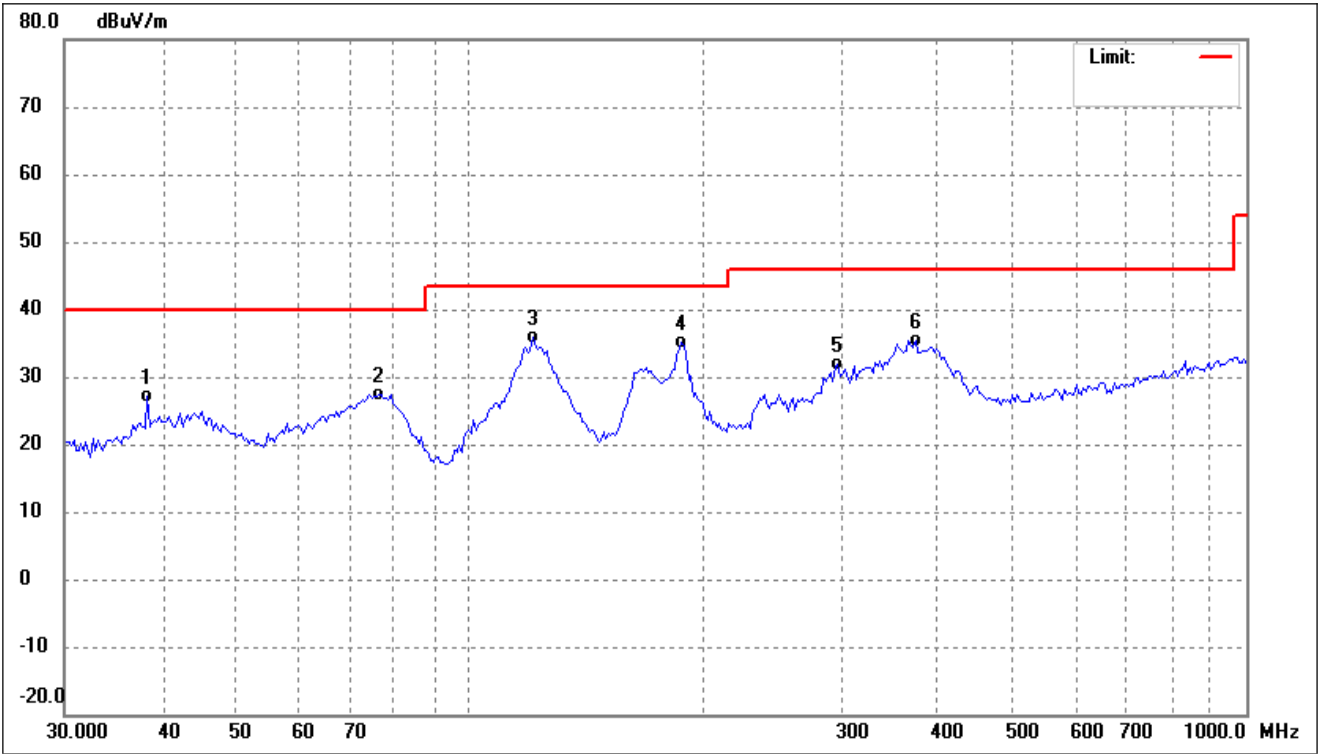
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.6948	33.43	-8.42	25.01	40.00	-14.99	-	-	QP
2	74.1351	38.41	-11.68	26.73	40.00	-13.27	-	-	QP
3	128.1130	42.29	-9.98	32.31	43.50	-11.19	-	-	QP
4	189.7385	43.86	-11.39	32.47	43.50	-11.03	-	-	QP
5	240.8304	39.91	-10.52	29.39	46.00	-16.61	-	-	QP
6	416.1791	41.21	-5.53	35.68	46.00	-10.32	-	-	QP

Test mode:	TM3	Polarity:	Vertical
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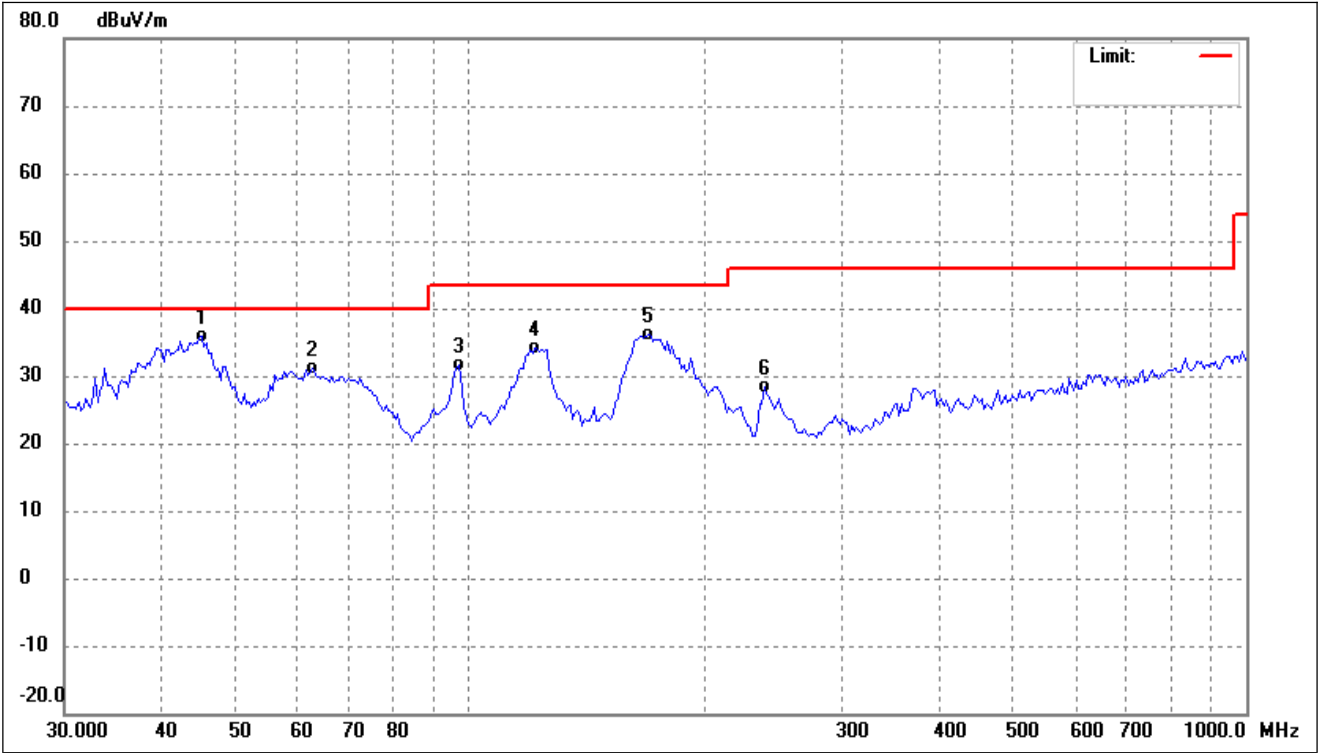
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.6948	43.76	-8.42	35.34	40.00	-4.66	-	-	QP
2	74.1351	38.14	-11.68	26.46	40.00	-13.54	-	-	QP
3	96.0986	40.51	-12.73	27.78	43.50	-15.72	-	-	QP
4	127.2176	43.04	-10.04	33.00	43.50	-10.50	-	-	QP
5	170.7926	42.18	-9.00	33.18	43.50	-10.32	-	-	QP
6	240.8304	39.44	-10.52	28.92	46.00	-17.08	-	-	QP

Test mode:	TM4	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	38.3462	36.00	-8.83	27.17	40.00	-12.83	-	-	QP
2	76.2442	39.60	-12.13	27.47	40.00	-12.53	-	-	QP
3	120.2766	46.27	-10.51	35.76	43.50	-7.74	-	-	QP
4	187.0958	46.21	-11.10	35.11	43.50	-8.39	-	-	QP
5	297.2241	40.34	-8.35	31.99	46.00	-14.01	-	-	QP
6	374.6226	41.86	-6.48	35.38	46.00	-10.62	-	-	QP

Test mode:	TM4	Polarity:	Vertical
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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	45.0583	44.45	-8.46	35.99	40.00	-4.01	-	-	QP
2	62.6507	40.63	-9.42	31.21	40.00	-8.79	-	-	QP
3	96.7749	44.22	-12.70	31.52	43.50	-11.98	-	-	QP
4	121.1231	44.62	-10.46	34.16	43.50	-9.34	-	-	QP
5	169.5990	45.03	-8.87	36.16	43.50	-7.34	-	-	QP
6	239.1473	38.89	-10.63	28.26	46.00	-17.74	-	-	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.

6. Occupied Bandwidth

6.1 Standard Applicable

According to 15.215,20dB emission bandwidth.

6.2 Test Procedure

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.

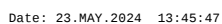
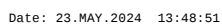
6.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

Test mode	Test Channel(kHz)	20dB Bandwidth(Hz)
TM1	113.473	236.00
TM2	155.708	260.00
TM3	326.940	123.60

Please refer to the attached plots.



Note: The RBW of the analyzer measuring Bandwidth cannot be adjusted to 1%-5% OBW, the RBW of the test setting is the closest value.

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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