

TEST REPORT

Reference No...... : WTX22X03048998W-1
FCC ID : 2A5YX-HY001-C
Applicant : Shenzhen Zhiwoyi Technology Co. Ltd
Address : Floor 2, Building 1, No.55, Guangda Road, Yuanshan Street, Longgang District, Shenzhen China
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : Wireless Charger
Model No...... : HY001-C
Standards : FCC Part 15.207&15.209
Date of Receipt sample : 2022-03-26
Date of Test..... : 2022-03-26 to 2022-04-08
Date of Issue : 2022-04-08
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:

Jack Huang

Jack Huang

Approved by:

Silin Chen

Silin Chen

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Report version

Version No.	Date of issue	Description
Rev.00	2022-04-08	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Wireless Charger
Trade Name:	/
Model No.:	HY001-C
Adding Model(s):	HY001, HY-011, HY002, HY003, HY005, HY006
Rated Voltage:	Input: DC5V/9V/12V
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 HY001-C, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	112~205kHz
Power adapter	/
Antenna Type:	Coil Antenna
Antenna Gain	0dBi
Modulation Type:	FSK
Rated Voltage:	Input: DC5V/9V/12V
Rated Current:	Input: 3A/2A/1.5A
Rated Power:	Output: 5W/7.5W/10W/15W

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.

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 1 Charging	Output 5W	Input: DC5V/9V/12V
TM2	Wireless 1 Charging	Output 10W	Input: DC5V/9V/12V
TM3	Wireless 1 Charging	Output 15W	Input: DC5V/9V/12V

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
USB-C Cable	1.22	Unshielded	Without Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Wireless charging load	/	YBZ	/
Adapter	GaN2 Pro	CCDAN65C2	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Radiated 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 $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2022-03-22	2023-03-21
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2022-03-22	2023-03-21
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2022-03-25	2023-03-24
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2022-03-22	2023-03-21
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2022-03-22	2023-03-21
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2022-03-22	2023-03-21
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2022-03-22	2023-03-21
SEMT-1082	Power Divider	RF-Lambda	RFLT4W5M18G	14110400027	2022-03-22	2023-03-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/
☒ Chamber A: Below 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2022-01-07	2023-01-06
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2023-03-19
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-20	2023-03-19
☒ Chamber A: Above 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2022-03-22	2023-03-21
SEMT-1042	Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18

SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91705 82	2021-04-27	2023-04-26
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-1415 3	2021-04-27	2022-04-26
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2022-03-22	2023-03-21
☐ Chamber B:Below 1GHz						
SEMT-1068	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2023-04-08
SEMT-1067	Amplifier	Agilent	8447D	2944A10179	2022-03-22	2023-03-21
SEMT-1066	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2022-03-25	2023-03-24
☐ Chamber C:Below 1GHz						
SEMT-1319	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2022-01-07	2023-01-06
SEMT-1343	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2023-05-27
SEMT-1333	Amplifier	HP	8447F	2944A03869	2022-03-22	2023-03-21
☒ Conducted Room 1#						
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2022-03-22	2023-03-21
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2022-03-25	2023-03-24
SEMT-1003	AC LISN	Schwarz beck	NSLK8126	8126-224	2022-03-22	2023-03-21
☐ Conducted Room 2#						
SEMT-1334	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2022-03-22	2023-03-21
SEMT-1336	LISN	Rohde & Schwarz	ENV 216	100097	2022-03-22	2023-03-21

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

Description of Test	Result
§15.203 Antenna 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.

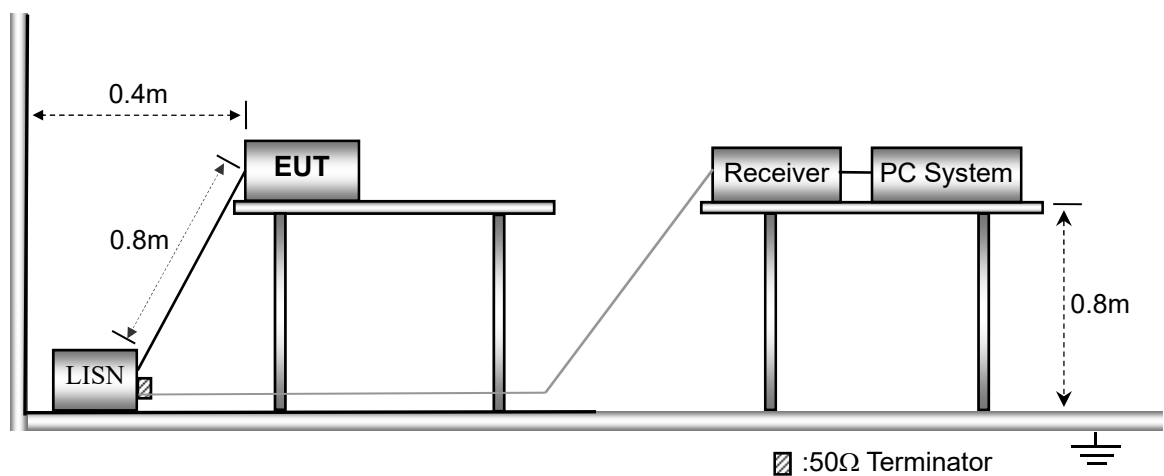
4. Conducted Emissions

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

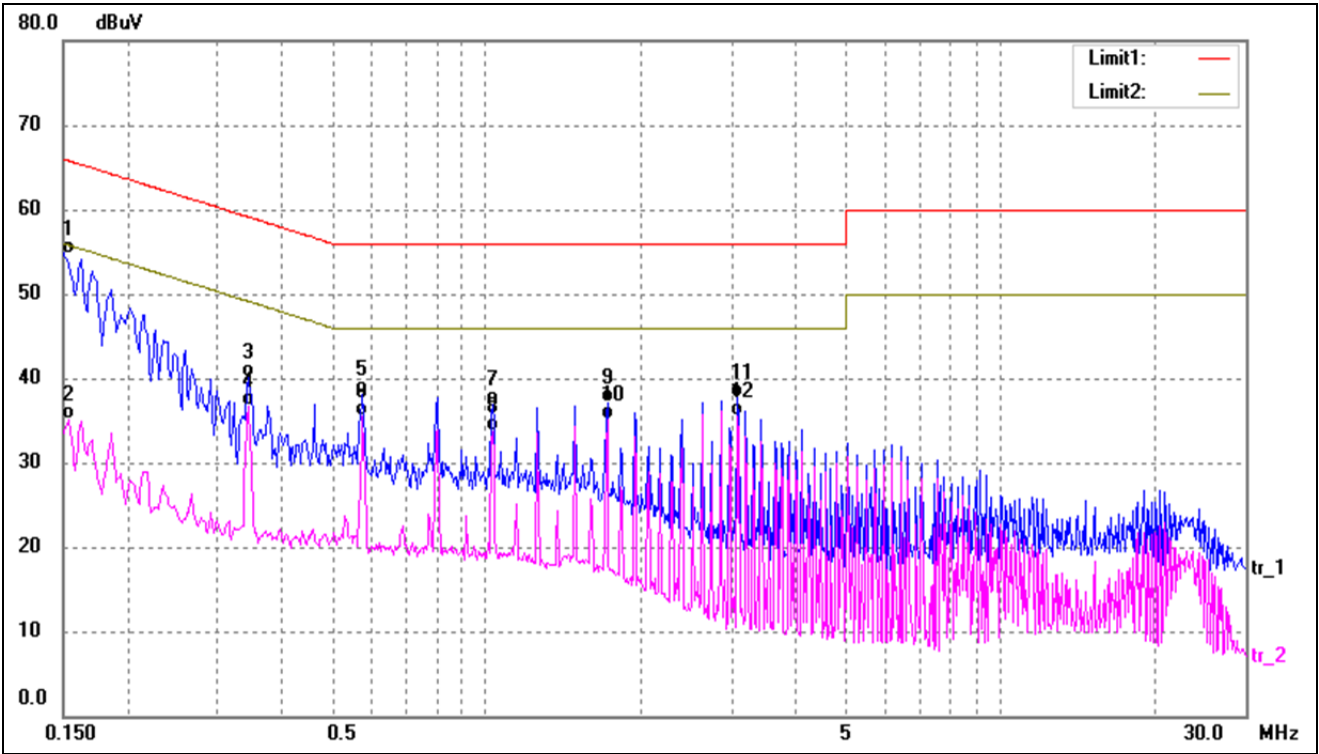


4.3 Environmental Conditions

Temperature:	23.5 °C
Relative Humidity:	54 %
ATM Pressure:	1011 mbar

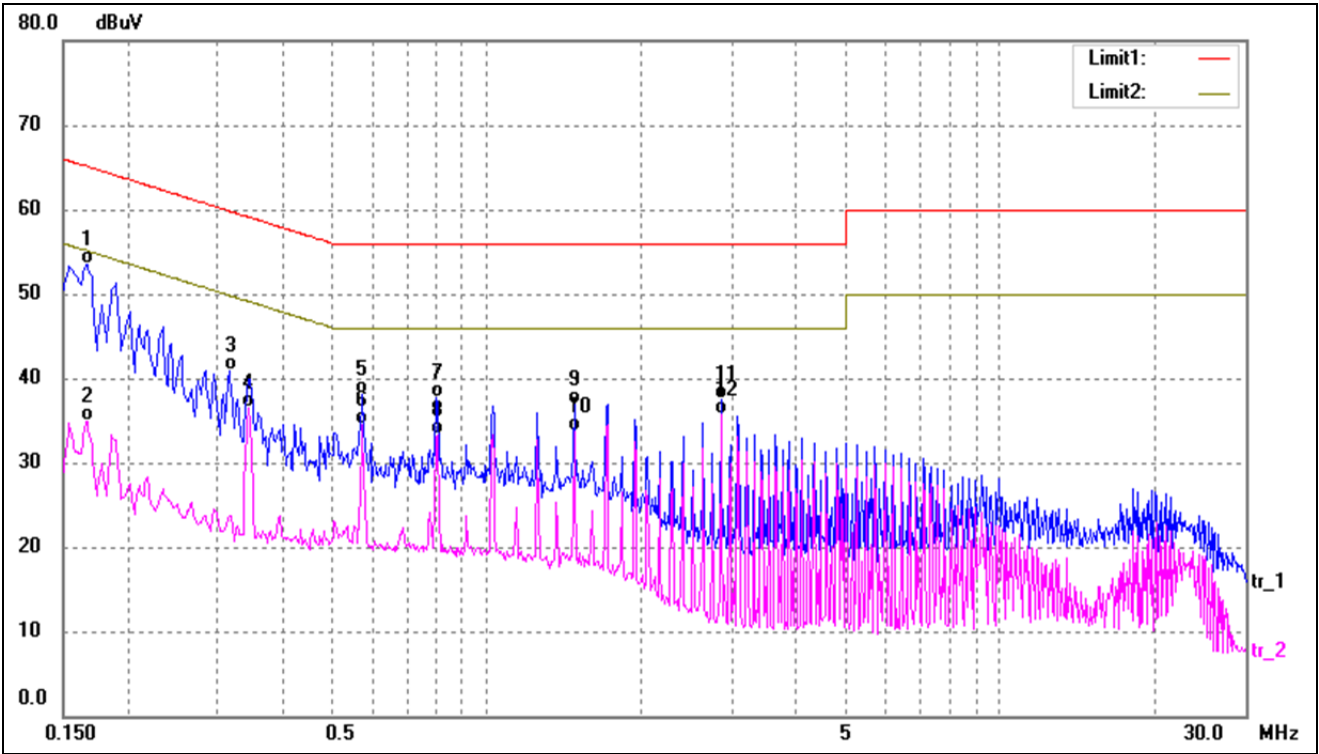
4.4 Summary of Test Results/Plots

Test mode:	TM1	Polarity:	Line
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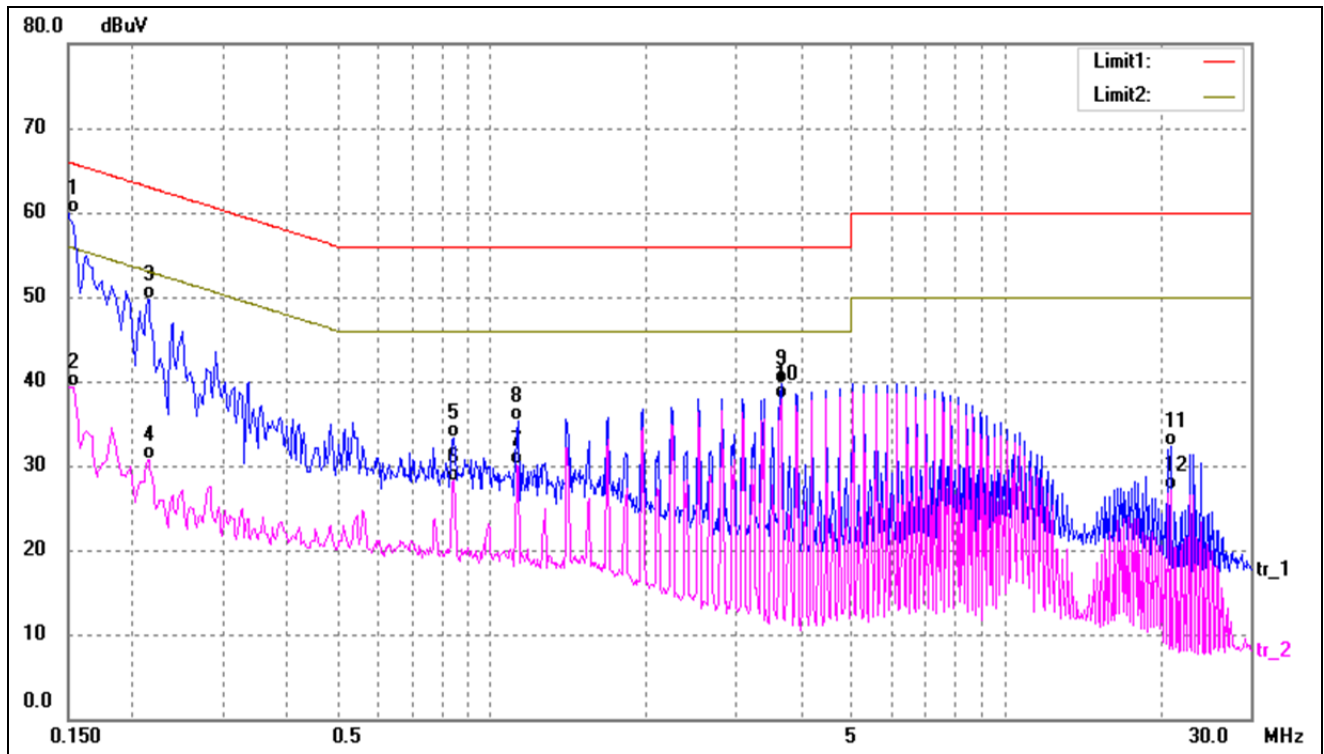
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	44.42	10.38	54.80	65.99	-11.19	QP
2	0.1539	24.77	10.37	35.14	55.78	-20.64	AVG
3	0.3420	29.87	10.32	40.19	59.15	-18.96	QP
4	0.3420	26.40	10.32	36.72	49.15	-12.43	AVG
5	0.5740	27.75	10.30	38.05	56.00	-17.95	QP
6*	0.5740	25.13	10.30	35.43	46.00	-10.57	AVG
7	1.0300	26.26	10.55	36.81	56.00	-19.19	QP
8	1.0300	23.18	10.55	33.73	46.00	-12.27	AVG
9	1.7180	26.91	10.25	37.16	56.00	-18.84	QP
10	1.7180	24.84	10.25	35.09	46.00	-10.91	AVG
11	3.0900	27.71	10.08	37.79	56.00	-18.21	QP
12	3.0900	25.35	10.08	35.43	46.00	-10.57	AVG

Test mode:	TM1	Polarity:	Neutral
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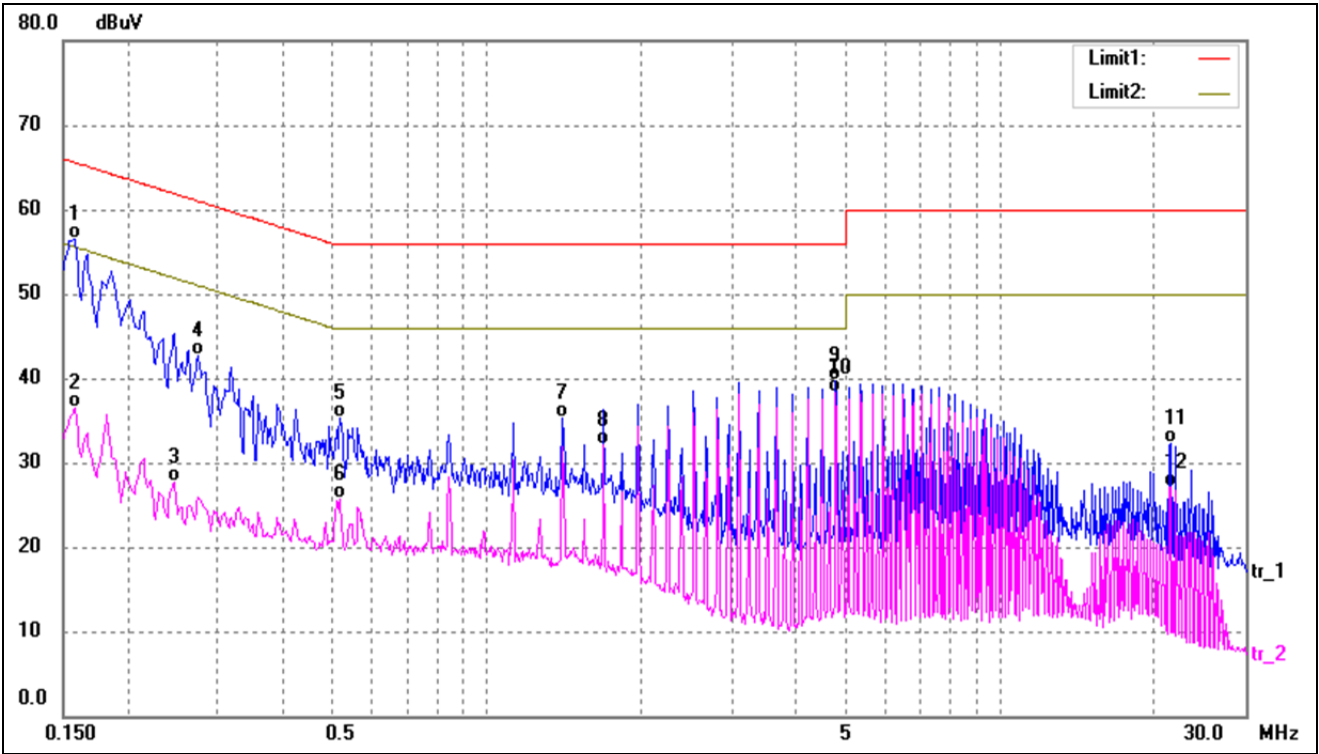
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1660	43.18	10.37	53.55	65.15	-11.60	QP
2	0.1660	24.57	10.37	34.94	55.15	-20.21	AVG
3	0.3140	30.54	10.33	40.87	59.86	-18.99	QP
4	0.3420	26.19	10.32	36.51	49.15	-12.64	AVG
5	0.5740	27.80	10.30	38.10	56.00	-17.90	QP
6	0.5740	24.19	10.30	34.49	46.00	-11.51	AVG
7	0.7980	27.22	10.44	37.66	56.00	-18.34	QP
8	0.8059	22.89	10.44	33.33	46.00	-12.67	AVG
9	1.4860	26.58	10.36	36.94	56.00	-19.06	QP
10	1.4860	23.26	10.36	33.62	46.00	-12.38	AVG
11	2.8620	27.34	10.09	37.43	56.00	-18.57	QP
12*	2.8620	25.65	10.09	35.74	46.00	-10.26	AVG

Test mode:	TM2	Polarity:	Line
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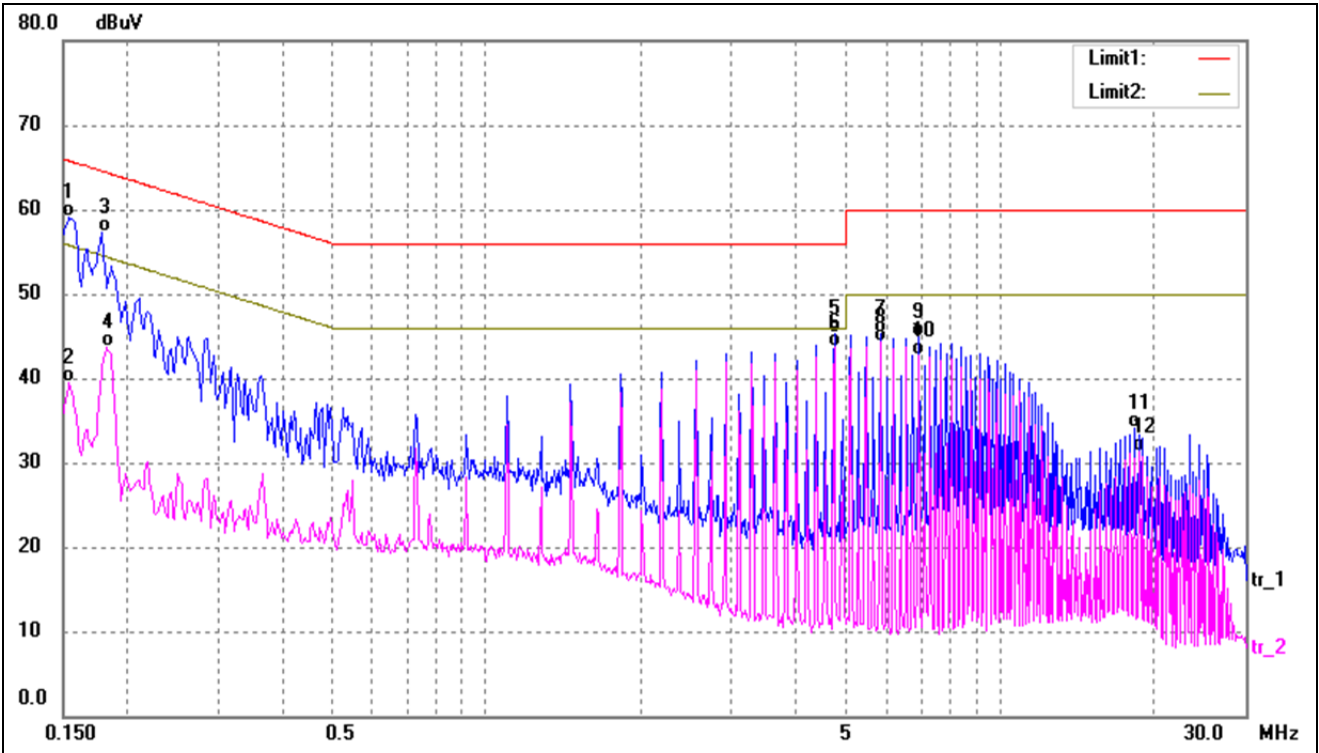
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1500	49.46	10.38	59.84	65.99	-6.15	QP
2	0.1539	28.99	10.37	39.36	55.78	-16.42	AVG
3	0.2140	39.41	10.37	49.78	63.04	-13.26	QP
4	0.2140	20.32	10.37	30.69	53.04	-22.35	AVG
5	0.8460	22.80	10.47	33.27	56.00	-22.73	QP
6	0.8460	17.73	10.47	28.20	46.00	-17.80	AVG
7	1.1220	19.61	10.51	30.12	46.00	-15.88	AVG
8	1.1300	24.87	10.51	35.38	56.00	-20.62	QP
9	3.6660	29.61	10.06	39.67	56.00	-16.33	QP
10	3.6660	27.75	10.06	37.81	46.00	-8.19	AVG
11	21.0140	22.11	10.24	32.35	60.00	-27.65	QP
12	21.0140	16.93	10.24	27.17	50.00	-22.83	AVG

Test mode:	TM2	Polarity:	Neutral
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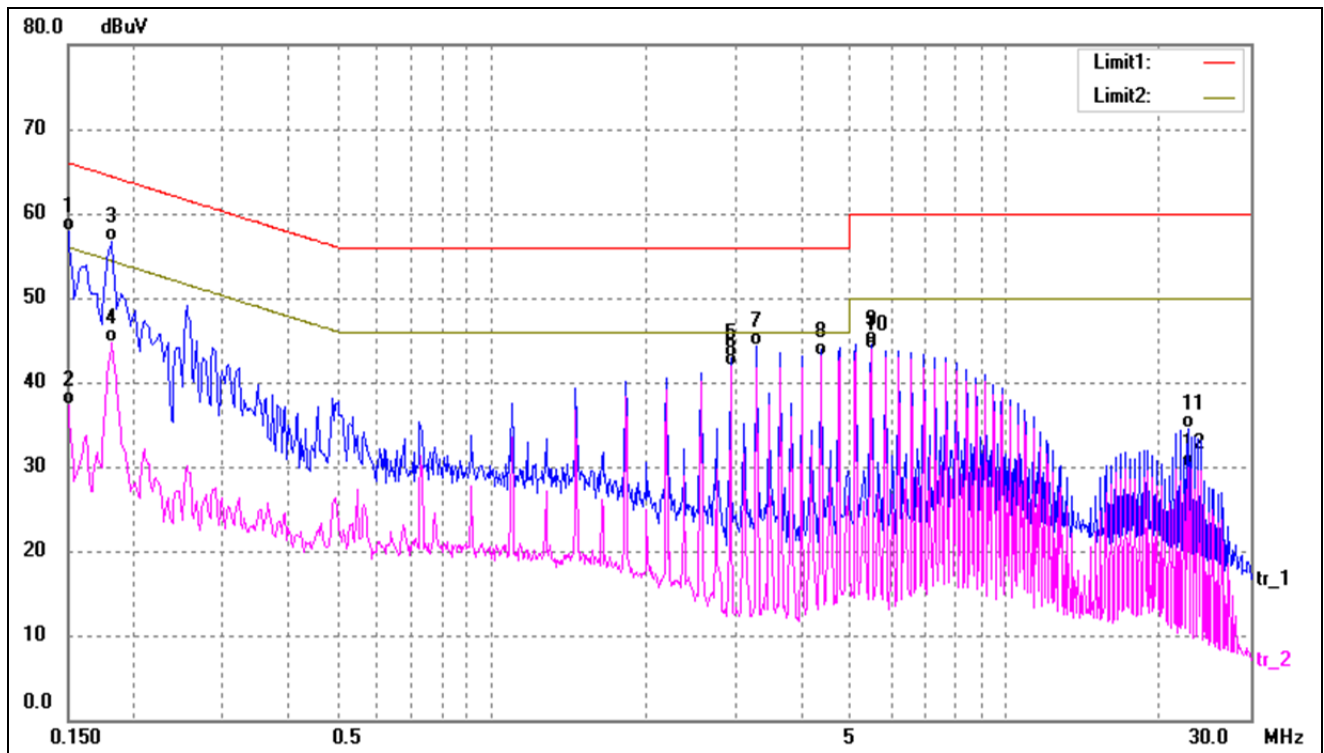
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	46.15	10.37	56.52	65.56	-9.04	QP
2	0.1580	26.20	10.37	36.57	55.56	-18.99	AVG
3	0.2460	17.26	10.35	27.61	51.89	-24.28	AVG
4	0.2740	32.34	10.35	42.69	60.99	-18.30	QP
5	0.5180	25.07	10.27	35.34	56.00	-20.66	QP
6	0.5180	15.35	10.27	25.62	46.00	-20.38	AVG
7	1.4100	24.90	10.39	35.29	56.00	-20.71	QP
8	1.6900	21.87	10.26	32.13	46.00	-13.87	AVG
9	4.7940	29.62	10.01	39.63	56.00	-16.37	QP
10*	4.7940	28.33	10.01	38.34	46.00	-7.66	AVG
11	21.5700	22.14	10.24	32.38	60.00	-27.62	QP
12	21.5700	16.83	10.24	27.07	50.00	-22.93	AVG

Test mode:	TM3	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1539	48.69	10.37	59.06	65.78	-6.72	QP
2	0.1539	29.19	10.37	39.56	55.78	-16.22	AVG
3	0.1780	47.00	10.37	57.37	64.57	-7.20	QP
4	0.1819	33.33	10.37	43.70	54.39	-10.69	AVG
5	4.7500	35.32	10.01	45.33	56.00	-10.67	QP
6*	4.7500	33.77	10.01	43.78	46.00	-2.22	AVG
7	5.8460	35.38	9.97	45.35	60.00	-14.65	QP
8	5.8460	34.30	9.97	44.27	50.00	-5.73	AVG
9	6.9420	34.92	9.95	44.87	60.00	-15.13	QP
10	6.9420	32.81	9.95	42.76	50.00	-7.24	AVG
11	18.2660	23.96	10.22	34.18	60.00	-25.82	QP
12	18.6340	21.05	10.22	31.27	50.00	-18.73	AVG

Test mode:	TM3	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1499	47.58	10.38	57.96	66.00	-8.04	QP
2	0.1499	26.88	10.38	37.26	56.00	-18.74	AVG
3	0.1819	46.36	10.37	56.73	64.39	-7.66	QP
4	0.1819	34.26	10.37	44.63	54.39	-9.76	AVG
5	2.9219	32.80	10.09	42.89	56.00	-13.11	QP
6	2.9219	31.86	10.09	41.95	46.00	-4.05	AVG
7	3.2860	34.20	10.07	44.27	56.00	-11.73	QP
8*	4.3819	33.05	10.03	43.08	46.00	-2.92	AVG
9	5.4779	34.55	9.99	44.54	60.00	-15.46	QP
10	5.4779	33.82	9.99	43.81	50.00	-6.19	AVG
11	22.6580	24.29	10.23	34.52	60.00	-25.48	QP
12	22.6580	19.71	10.23	29.94	50.00	-20.06	AVG

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	$20\log^{(500)}$

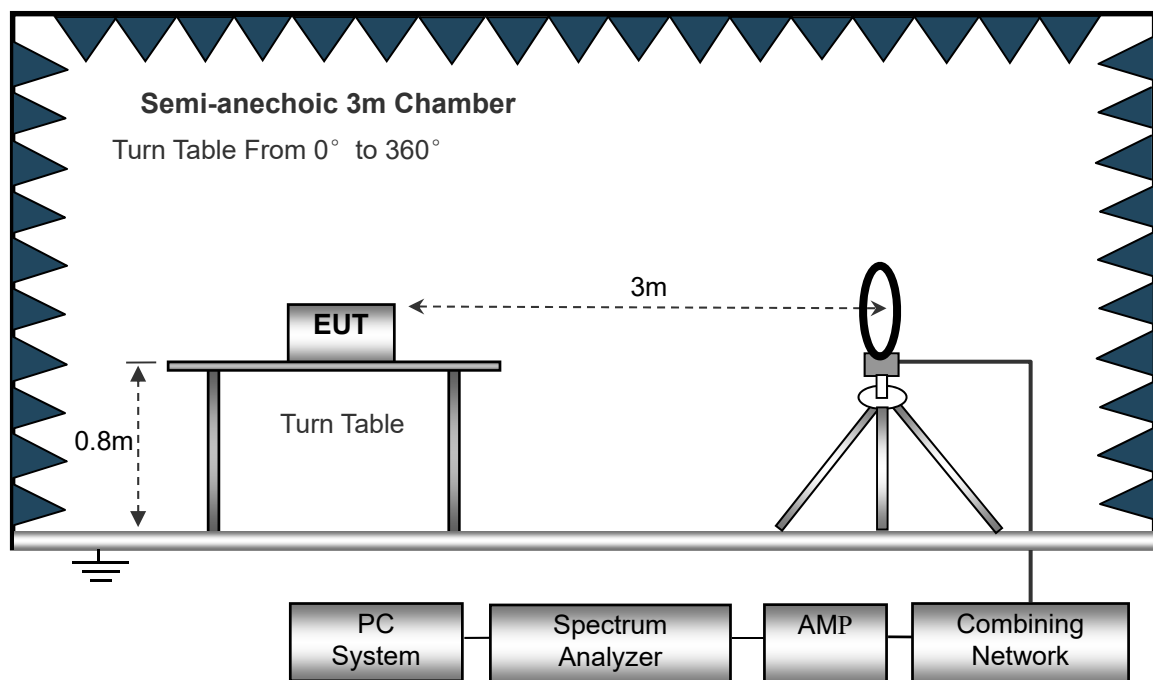
5.2 Test Procedure

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.

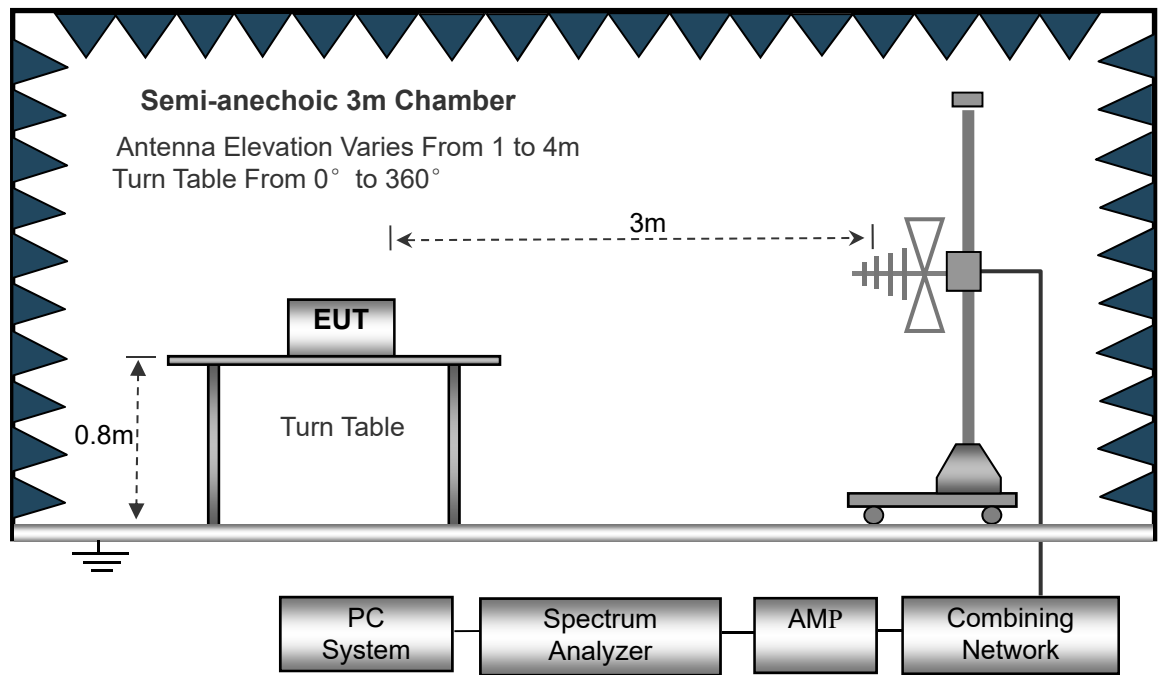
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

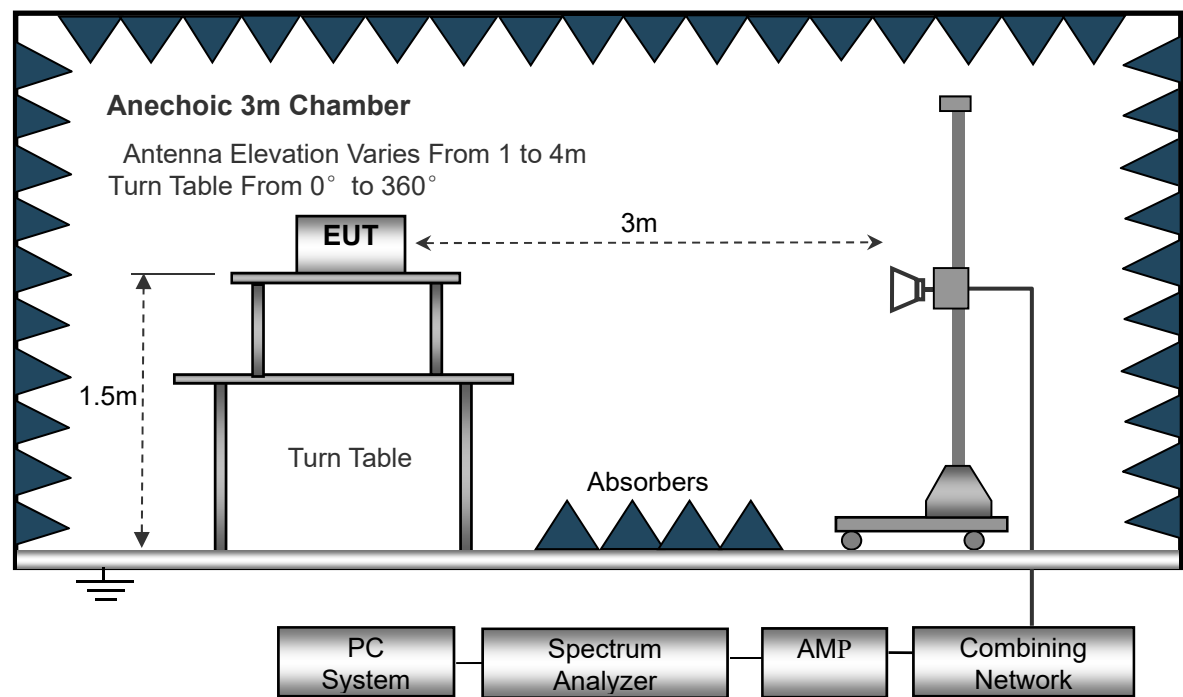
The test setup for emission measurement below 30MHz.



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

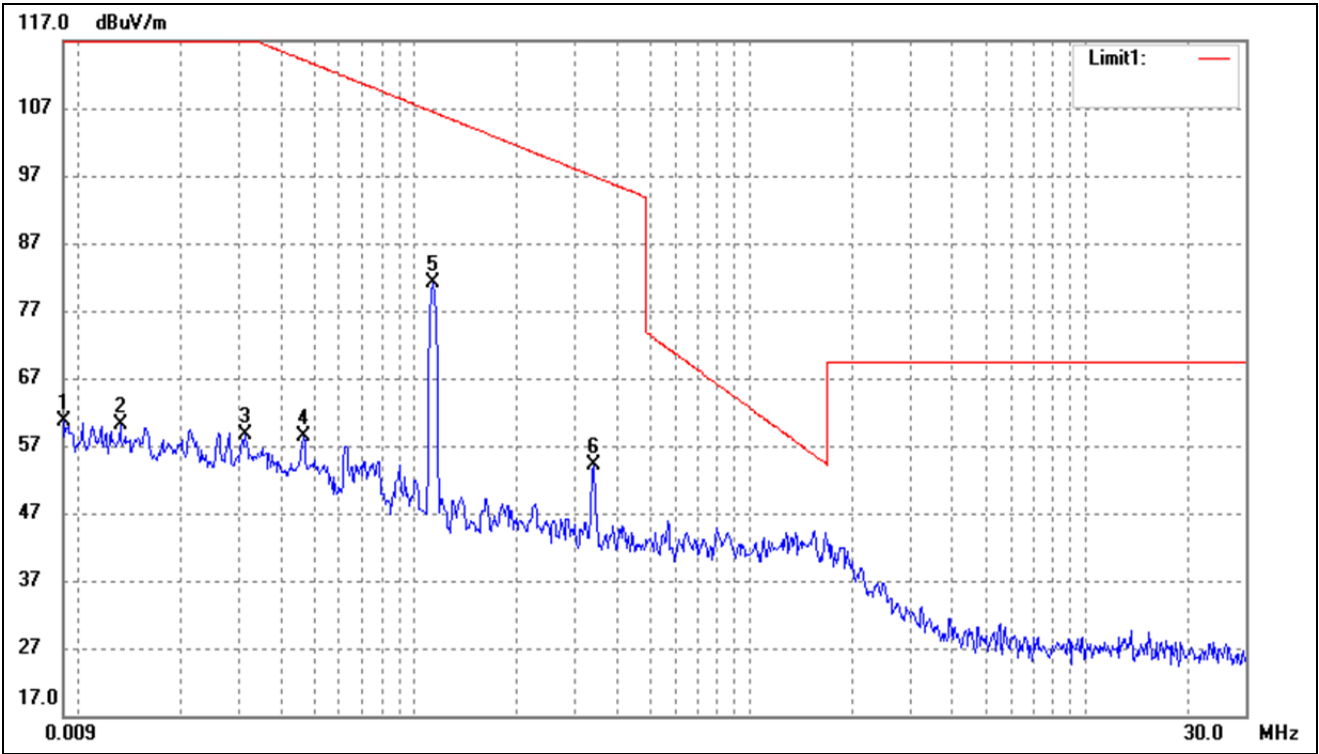
Temperature:	22.5°C
Relative Humidity:	54 %
ATM Pressure:	1011 mbar

5.6 Summary of Test Results/Plots

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

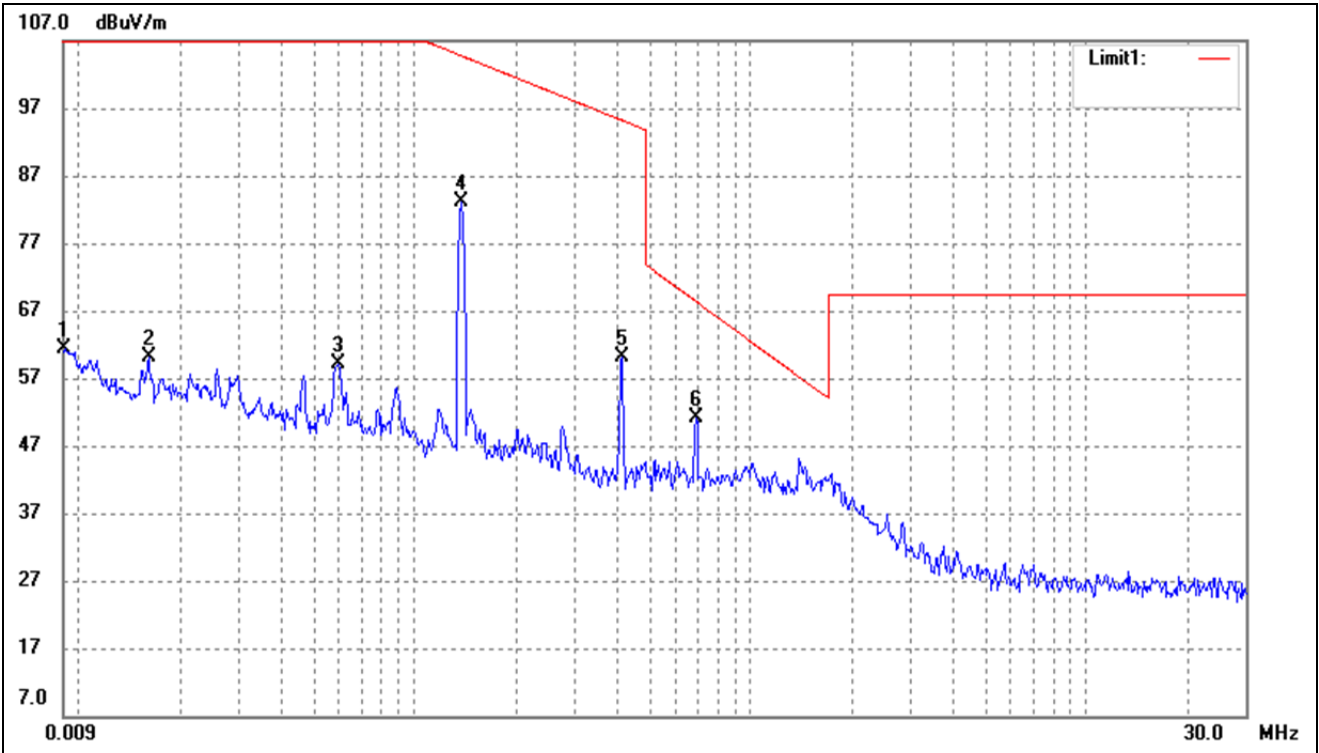
➤ Below 30MHz

Test mode:	TM1	Polarity:	Horizontal
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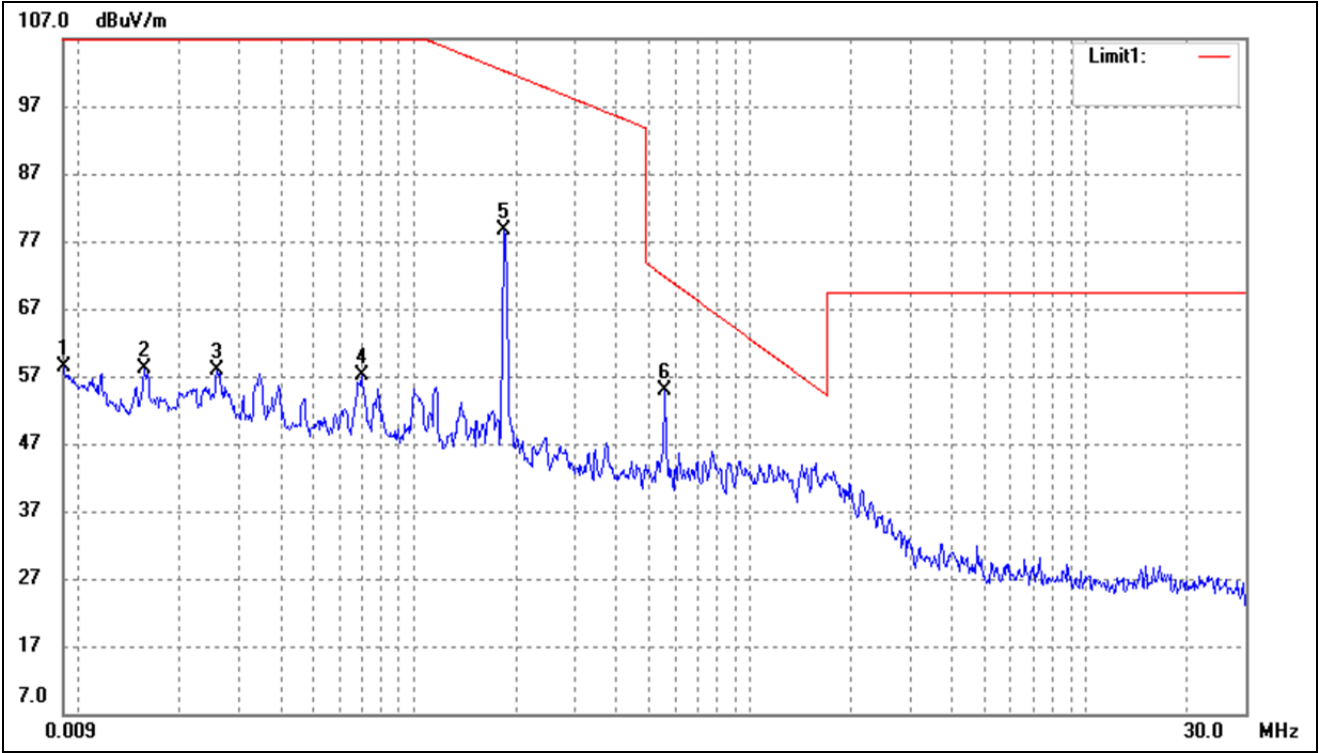
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0091	86.94	-26.20	60.74	128.31	-67.57	-	-	peak
2	0.0132	86.28	-26.20	60.08	125.09	-65.01	-	-	peak
3	0.0313	84.78	-26.16	58.62	117.61	-58.99	-	-	peak
4	0.0466	84.62	-26.13	58.49	114.17	-55.68	-	-	peak
5	0.1131	107.03	-26.02	81.01	106.49	-25.48	-	-	peak
6	0.3407	79.87	-25.82	54.05	96.95	-42.90	-	-	peak

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	0.0091	87.48	-26.20	61.28	128.40	-67.12	-	-	peak
2	0.0161	86.26	-26.18	60.08	123.45	-63.37	-	-	peak
3	0.0596	85.21	-26.10	59.11	112.09	-52.98	-	-	peak
4	0.1374	109.16	-26.00	83.16	104.84	-21.68	-	-	peak
5	0.4140	85.91	-25.75	60.16	95.26	-35.10	-	-	peak
6	0.6902	76.65	-25.52	51.13	68.39	-17.26	-	-	peak

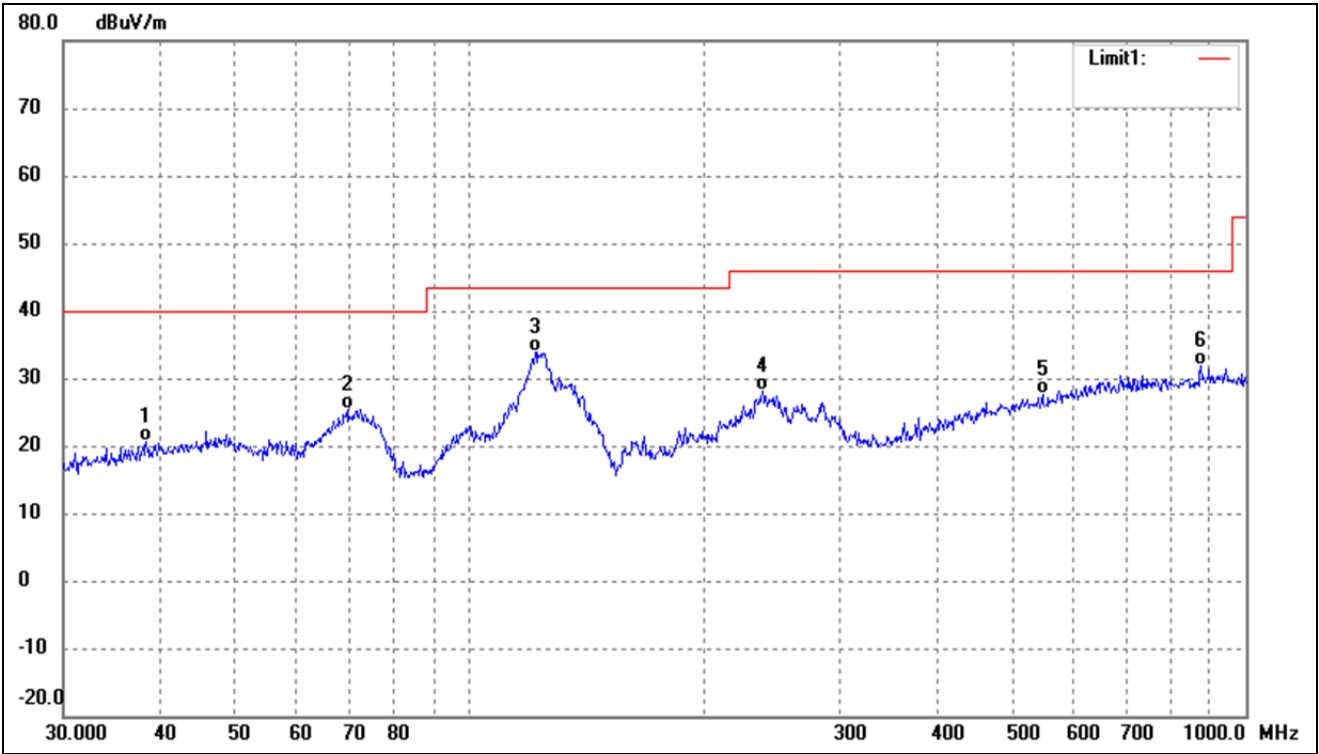
Test mode:	TM3	Polarity:	Horizontal
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	0.0090	84.66	-26.20	58.46	128.50	-70.04	-	-	peak
2	0.0158	84.32	-26.18	58.14	123.61	-65.47	-	-	peak
3	0.0258	84.16	-26.17	57.99	119.36	-61.37	-	-	peak
4	0.0695	83.18	-26.08	57.10	110.75	-53.65	-	-	peak
5	0.1855	104.67	-25.96	78.71	102.23	-23.52	-	-	peak
6	0.5590	80.41	-25.63	54.78	71.72	-16.94	-	-	peak

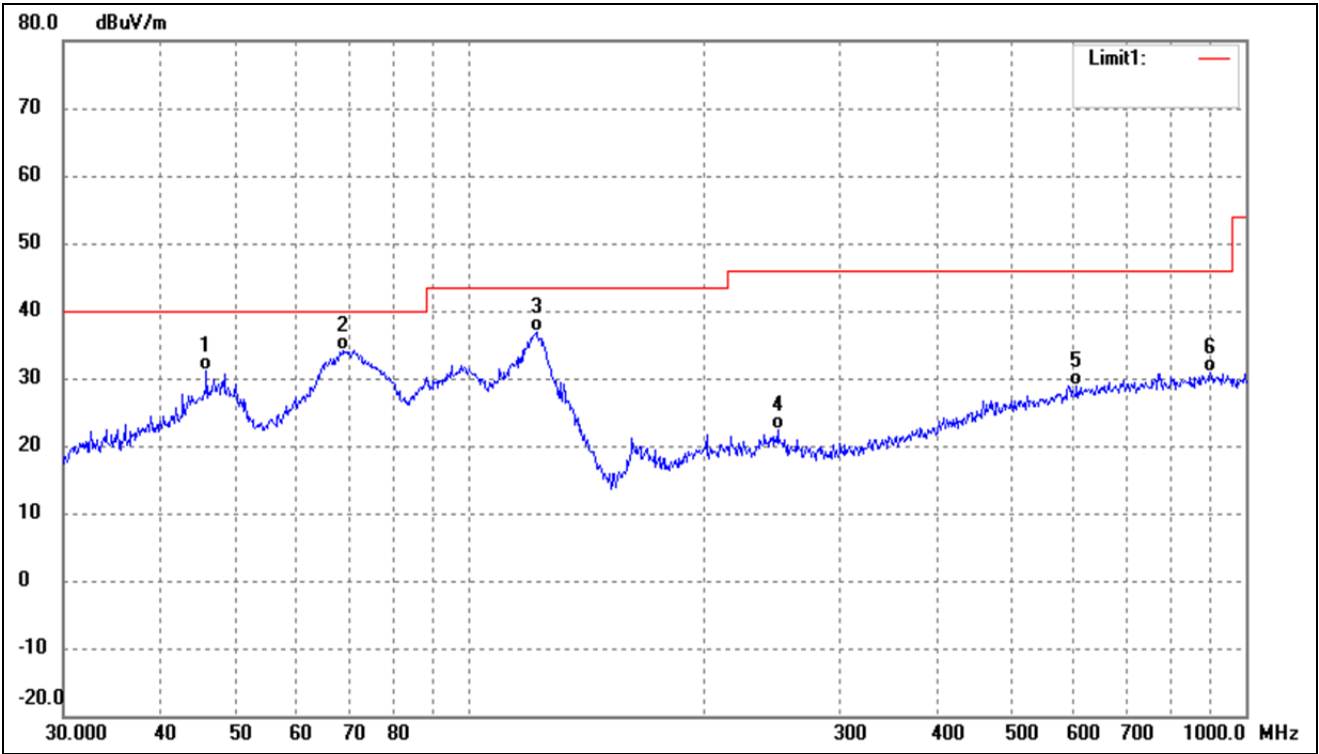
➤ 30MHz-1GHz

➤ Test mode:	TM1	Polarity:	Horizontal
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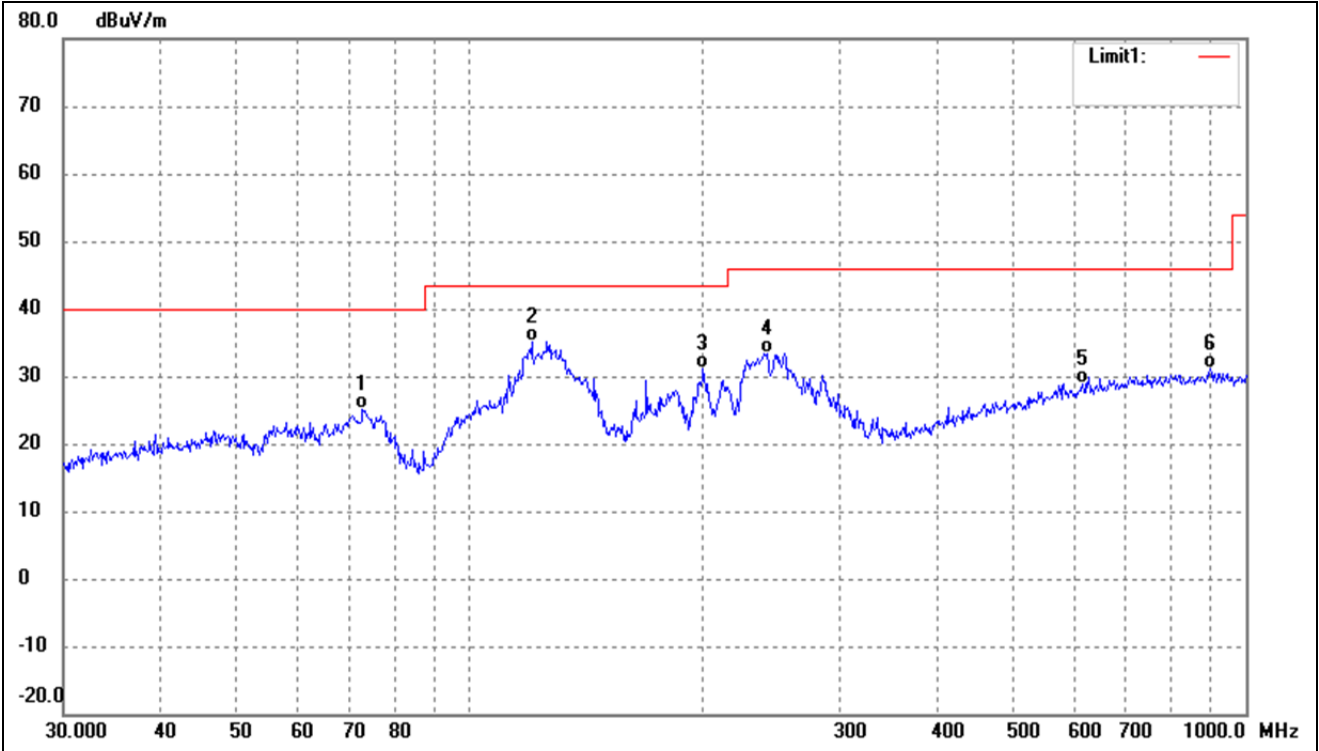
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	38.3462	28.00	-7.40	20.60	40.00	-19.40	-	-	QP
2	69.6005	35.57	-10.10	25.47	40.00	-14.53	-	-	QP
3	121.5486	43.75	-9.88	33.87	43.50	-9.63	-	-	QP
4	238.3102	36.79	-8.64	28.15	46.00	-17.85	-	-	QP
5	547.0977	28.17	-0.52	27.65	46.00	-18.35	-	-	QP
6	875.2470	29.23	2.57	31.80	46.00	-14.20	-	-	QP

Test mode:	TM1	Polarity:	Vertical
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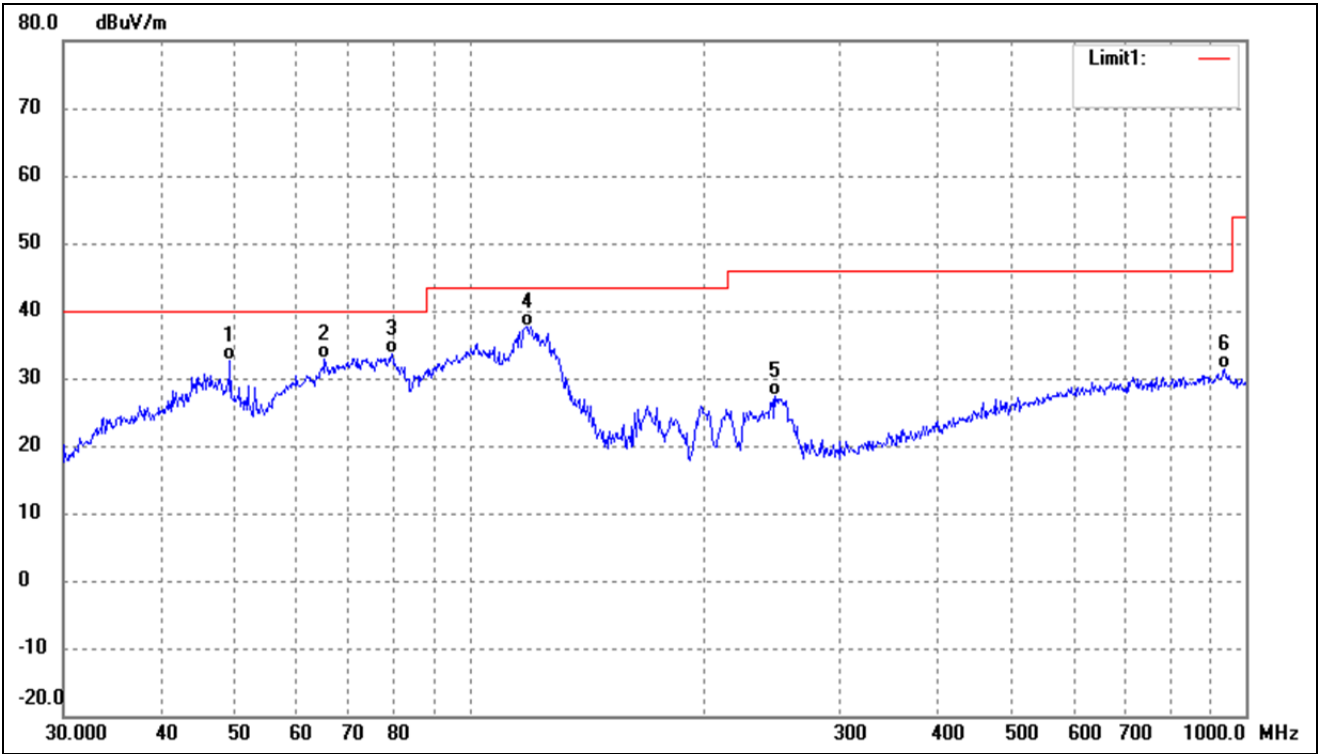
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	45.8553	38.10	-6.98	31.12	40.00	-8.88	-	-	QP
2	68.8721	44.16	-9.97	34.19	40.00	-5.81	-	-	QP
3	121.9755	46.76	-9.96	36.80	43.50	-6.70	-	-	QP
4	249.4250	30.76	-8.32	22.44	46.00	-23.56	-	-	QP
5	605.6592	28.48	0.43	28.91	46.00	-17.09	-	-	QP
6	900.1474	28.18	2.75	30.93	46.00	-15.07	-	-	QP

➤ Test mode:	TM2	Polarity:	Horizontal
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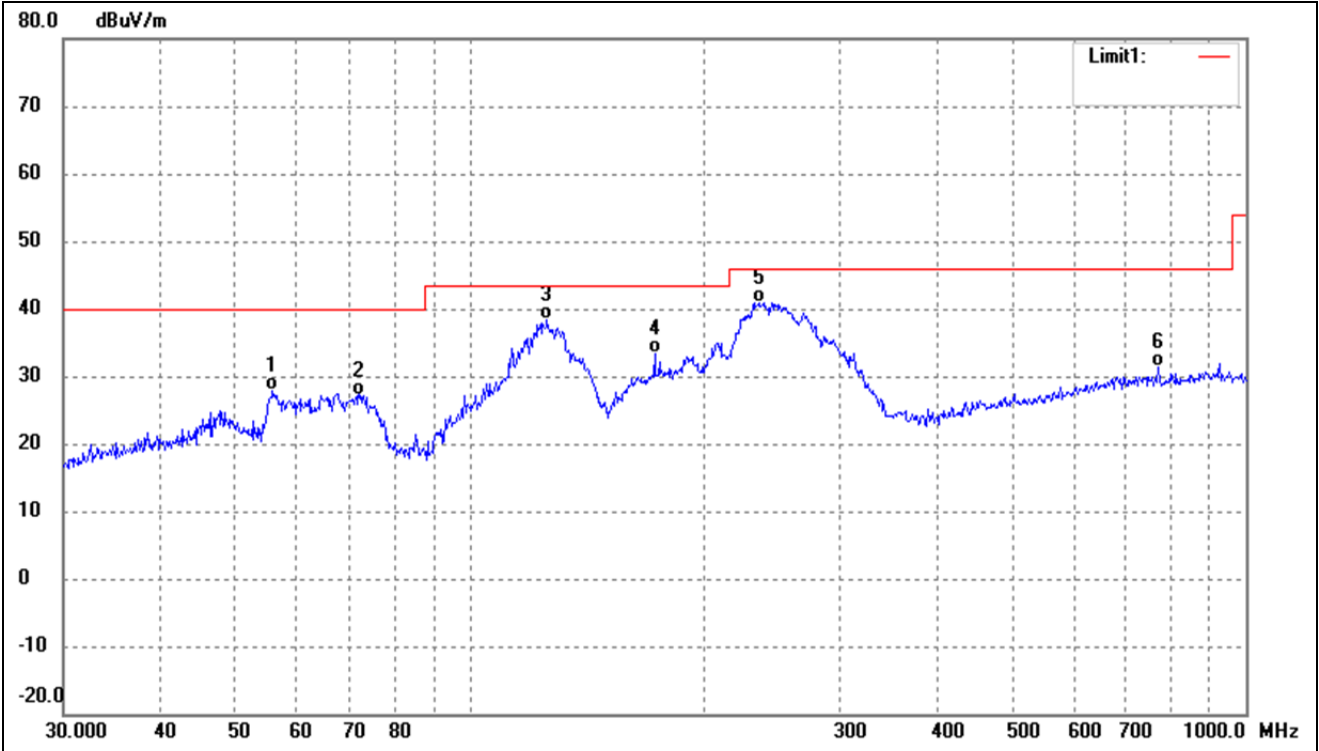
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	72.8466	35.42	-10.34	25.08	40.00	-14.92	-	-	QP
2	120.2766	44.79	-9.65	35.14	43.50	-8.36	-	-	QP
3	199.9856	40.77	-9.70	31.07	43.50	-12.43	-	-	QP
4	241.6763	41.99	-8.54	33.45	46.00	-12.55	-	-	QP
5	616.3718	28.37	0.55	28.92	46.00	-17.08	-	-	QP
6	900.1474	28.26	2.75	31.01	46.00	-14.99	-	-	QP

Test mode:	TM2	Polarity:	Vertical
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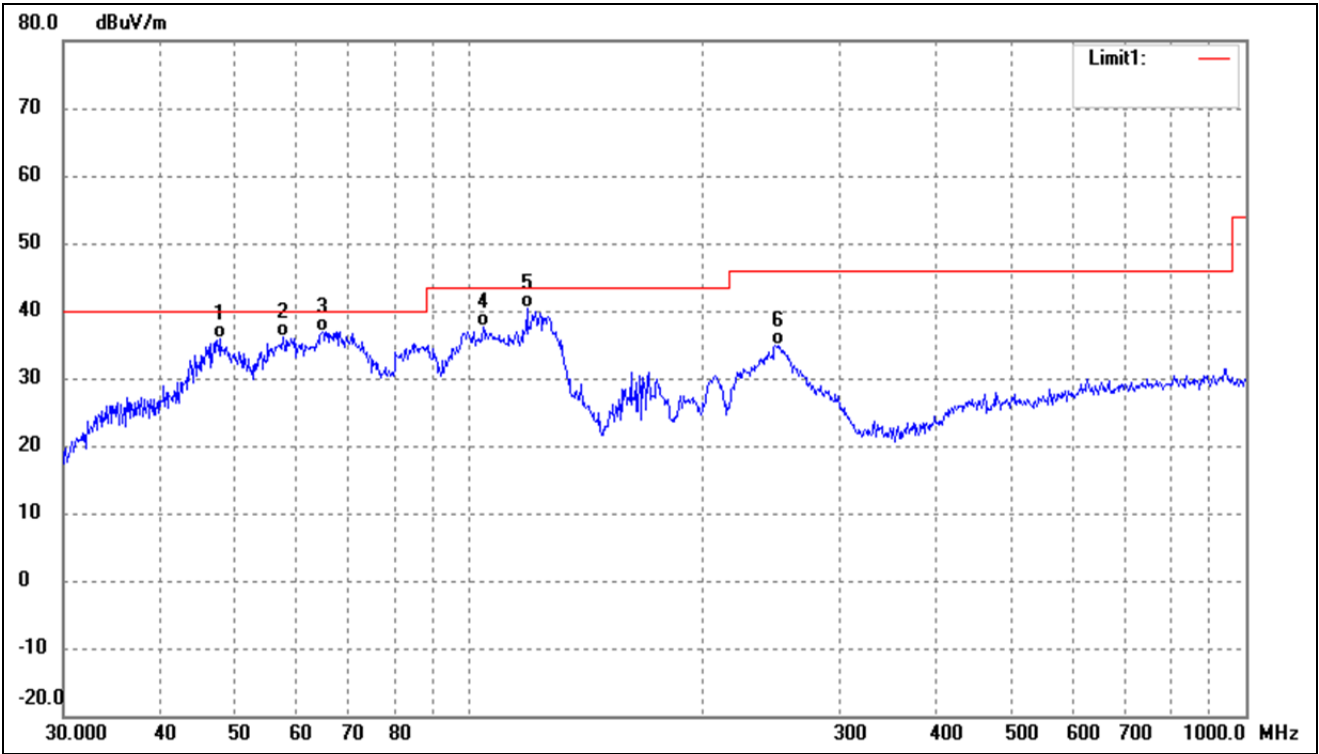
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.1866	39.55	-6.97	32.58	40.00	-7.42	-	-	QP
2	65.1145	42.10	-9.32	32.78	40.00	-7.22	-	-	QP
3	79.5209	44.37	-10.71	33.66	40.00	-6.34	-	-	QP
4	119.0180	47.14	-9.53	37.61	43.50	-5.89	-	-	QP
5	247.6819	35.85	-8.38	27.47	46.00	-18.53	-	-	QP
6	938.8326	28.77	2.62	31.39	46.00	-14.61	-	-	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	55.8047	35.60	-7.80	27.80	40.00	-12.20	-	-	QP
2	72.0843	37.54	-10.29	27.25	40.00	-12.75	-	-	QP
3	125.8864	49.10	-10.68	38.42	43.50	-5.08	-	-	QP
4	173.2051	44.97	-11.58	33.39	43.50	-10.11	-	-	QP
5	236.6447	49.67	-8.68	40.99	46.00	-5.01	-	-	QP
6	771.4486	29.37	1.90	31.27	46.00	-14.73	-	-	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	47.6586	42.89	-6.97	35.92	40.00	-4.08	-	-	QP
2	57.5939	44.08	-8.07	36.01	40.00	-3.99	-	-	QP
3	64.6594	46.13	-9.24	36.89	40.00	-3.11	-	-	QP
4	104.1701	46.40	-8.78	37.62	43.50	-5.88	-	-	QP
5	118.6014	49.86	-9.50	40.36	43.50	-3.14	-	-	QP
6	249.4250	43.21	-8.32	34.89	46.00	-11.11	-	-	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	112.74528	32.40
TM2	125.97280	35.20
TM3	144.1756	29.60

Please refer to the attached plots.

TM1	Date: 8.APR.2022 17:27:17
TM2	Date: 8.APR.2022 17:30:14
TM3	Date: 8.APR.2022 17:34:09

Note: The RBW of the analyzer that measured 99% OBW cannot go lower than 10Hz, so it was set to 10Hz, even though it is more than 5% of the OBW. This produces a worst case measurement.

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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