

FCC Part 15C Measurement and Test Report

For

Elexa Consumer Products Inc.

2275 Half Day Road, Suite 333 Bannockburn IL 60015 USA

FCC ID: VII-DMEX1

FCC Rule(s):	<u>FCC Part 15.249</u>
Product Description:	<u>Extender</u>
Tested Model:	<u>DMEX1</u>
Report No.:	<u>STR18088166I</u>
Sample Receipt Date:	<u>2018-08-14</u>
Tested Date:	<u>2018-08-15 to 2018-09-11</u>
Issued Date:	<u>2018-09-12</u>
Tested By:	<u>Long Tang / Engineer</u>
Reviewed By:	<u>Silin Chen / EMC Manager</u>
Approved & Authorized By:	<u>Jandy So / PSQ Manager</u>
Prepared By:	

Long Tang

Silin Chen

Jandy So

Shenzhen SEM Test Technology Co., Ltd.

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

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Website: www.semtest.com.cn

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM Test Technology Co., Ltd.

TABLE OF CONTENTS

1. GENERAL INFORMATION.....	3
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	3
1.2 TEST STANDARDS.....	4
1.3 TEST METHODOLOGY.....	4
1.4 TEST FACILITY.....	4
1.5 EUT SETUP AND TEST MODE.....	5
1.6 MEASUREMENT UNCERTAINTY.....	5
1.7 TEST EQUIPMENT LIST AND DETAILS.....	6
2. SUMMARY OF TEST RESULTS.....	7
3. ANTENNA REQUIREMENTS.....	8
3.1 STANDARD APPLICABLE.....	8
3.2 TEST RESULT.....	8
4. RADIATED EMISSIONS.....	9
4.1 STANDARD APPLICABLE.....	9
4.2 TEST PROCEDURE.....	9
4.3 CORRECTED AMPLITUDE & MARGIN CALCULATION.....	11
4.4 SUMMARY OF TEST RESULTS/PLOTS.....	11
5. OUT OF BAND EMISSIONS.....	17
5.1 STANDARD APPLICABLE.....	17
5.2 TEST PROCEDURE.....	17
5.3 SUMMARY OF TEST RESULTS/PLOTS.....	17
6. EMISSION BANDWIDTH.....	20
6.1 STANDARD APPLICABLE.....	20
6.2 TEST PROCEDURE.....	20
6.3 SUMMARY OF TEST RESULTS/PLOTS.....	20
7. CONDUCTED EMISSIONS.....	22
7.1 TEST PROCEDURE.....	22
7.2 BASIC TEST SETUP BLOCK DIAGRAM.....	22
7.3 TEST RECEIVER SETUP.....	22
7.4 SUMMARY OF TEST RESULTS/PLOTS.....	22

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Alexa Consumer Products Inc.
Address of applicant: 2275 Half Day Road, Suite 333 Bannockburn IL 60015 USA

Manufacturer: Zmartgears Limited.
Address of manufacturer: 4/F, Building A3, Digital Tech Park Gaoxin South 7th Rd, Science Park, Nanshan District, SZ 518057, GD, CN

General Description of EUT	
Product Name:	Extender
Trade Name:	Dome
Model No.:	DMEX1
Adding Model(s):	/
Rated Voltage:	AC100-120V 60Hz
Power Adapter Model:	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	908.4MHz,916MHz
Max. Field Strength:	91.13dBuV/m
Modulation:	GFSK
Quantity of Channels:	2
Antenna Type:	Integral Antenna
Antenna Gain:	-2dBi
Lowest Internal Frequency of EUT:	32MHz

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz.

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 results 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

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology 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 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, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Low Channel	908.4MHz
TM2	High Channel	916MHz

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
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	±0.42dB
Occupied Bandwidth	Conducted	± 1.5%
Conducted Spurious Emission	Conducted	±2.17dB
Conducted Emissions	Conducted	9-150kHz ±3.74dB
		0.15-30MHz ±3.34dB
Transmitter Spurious 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

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2018-05-22	2019-05-21
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2018-05-22	2019-05-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2018-05-22	2019-05-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2018-05-22	2019-05-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2018-05-22	2019-05-21
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2020-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2018-05-22	2019-05-21
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2018-05-22	2019-05-21
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2018-05-22	2019-05-21
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2018-05-22	2019-05-21
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2018-05-22	2019-05-21
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2018-05-22	2019-05-21
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2018-03-19	2021-03-18
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2018-05-22	2019-05-21
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2018-05-22	2019-05-21
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2018-05-22	2019-05-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2018-03-19	2019-03-18
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2018-03-19	2019-03-18
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2018-03-19	2019-03-18
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2018-03-19	2019-03-18
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 15.203	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.209(a)(f)	Radiated Spurious Emissions	Compliant
§15.249(a)	Field Strength of Emissions	Compliant
§15.249(d)	Out of Band Emission	Compliant
§15.215 (c)	Emission Bandwidth	Compliant

3. Antenna Requirements

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 an integral antenna, fulfill the requirement of this section.

4. Radiated Emissions

4.1 Standard Applicable

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field strength of fundamental (milli-volts/meter)	Field strength of Harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

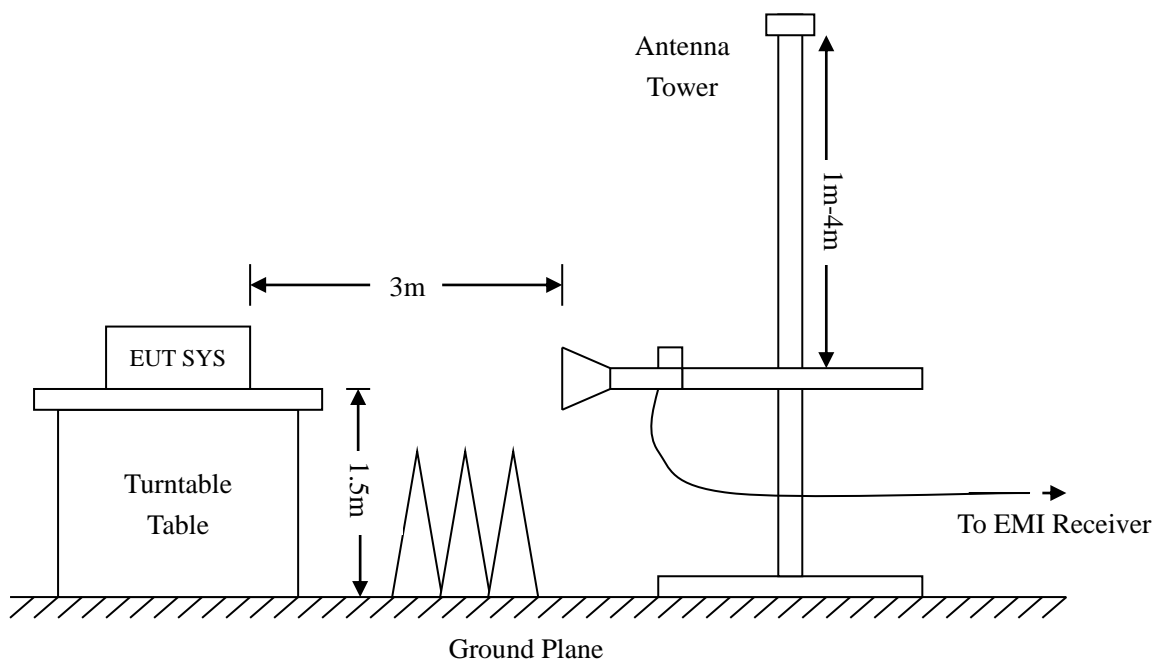
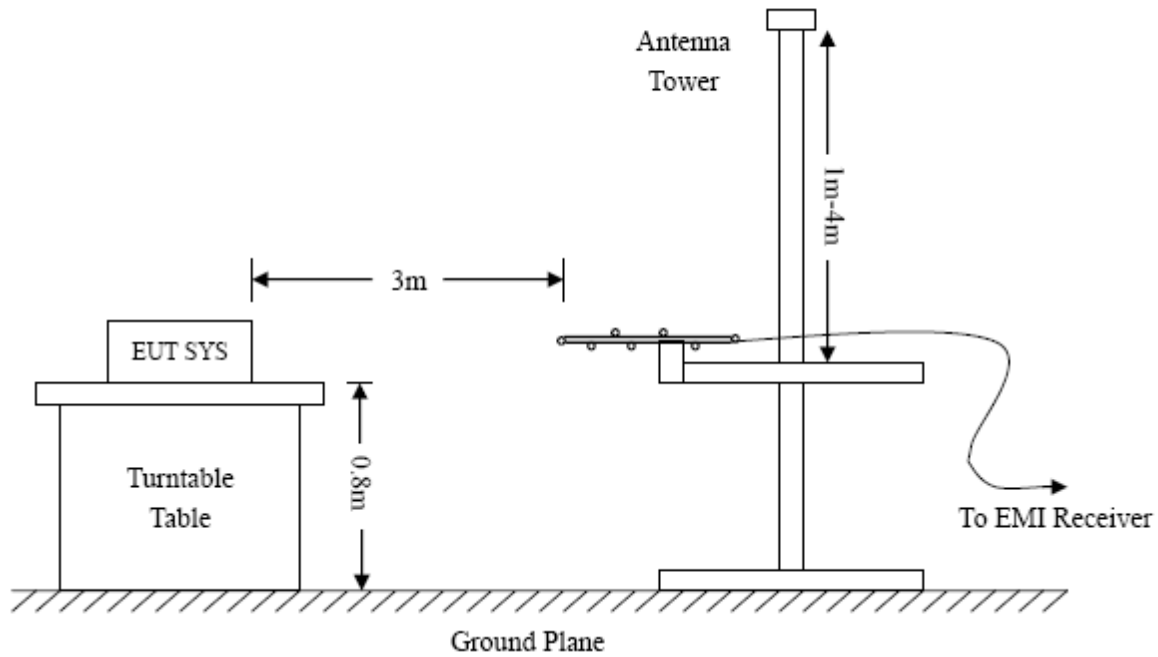
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

4.2 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 15.249(a) 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.



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

4.3 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:

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

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

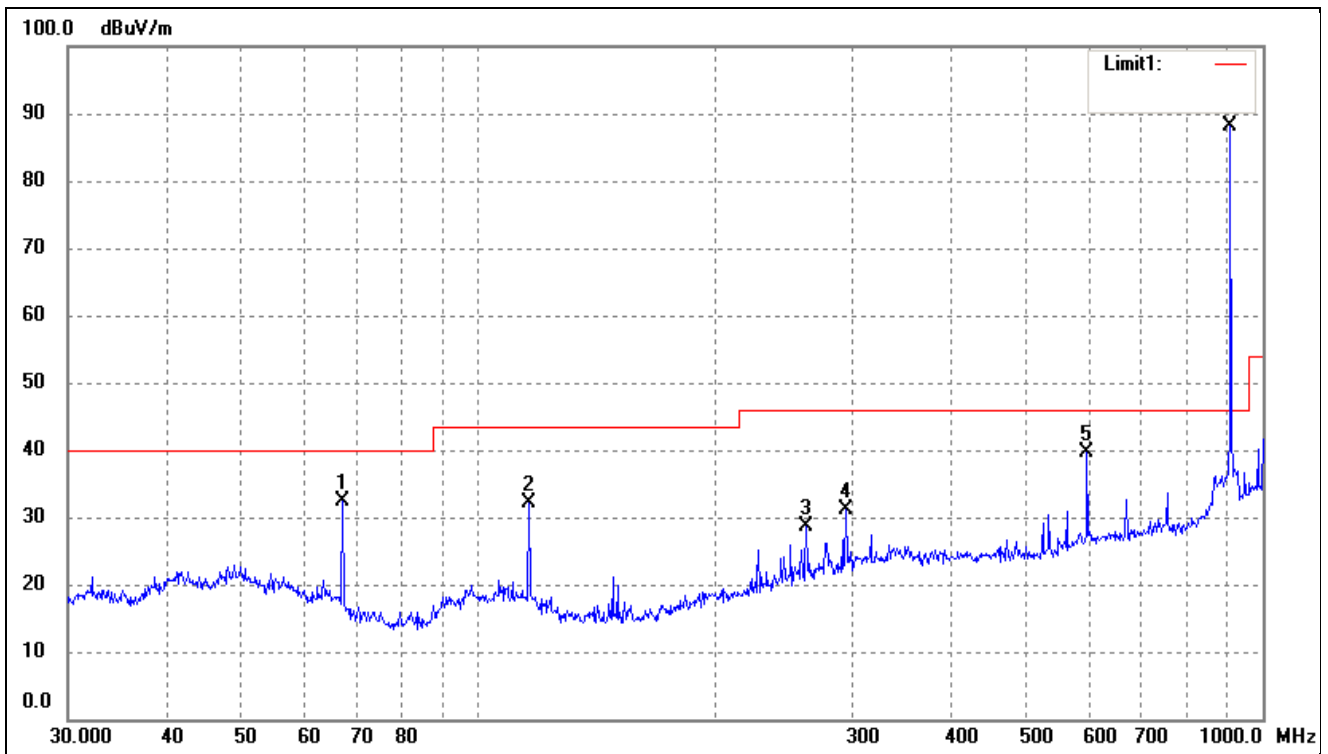
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15C Limit}$$

4.4 Summary of Test Results/Plots

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

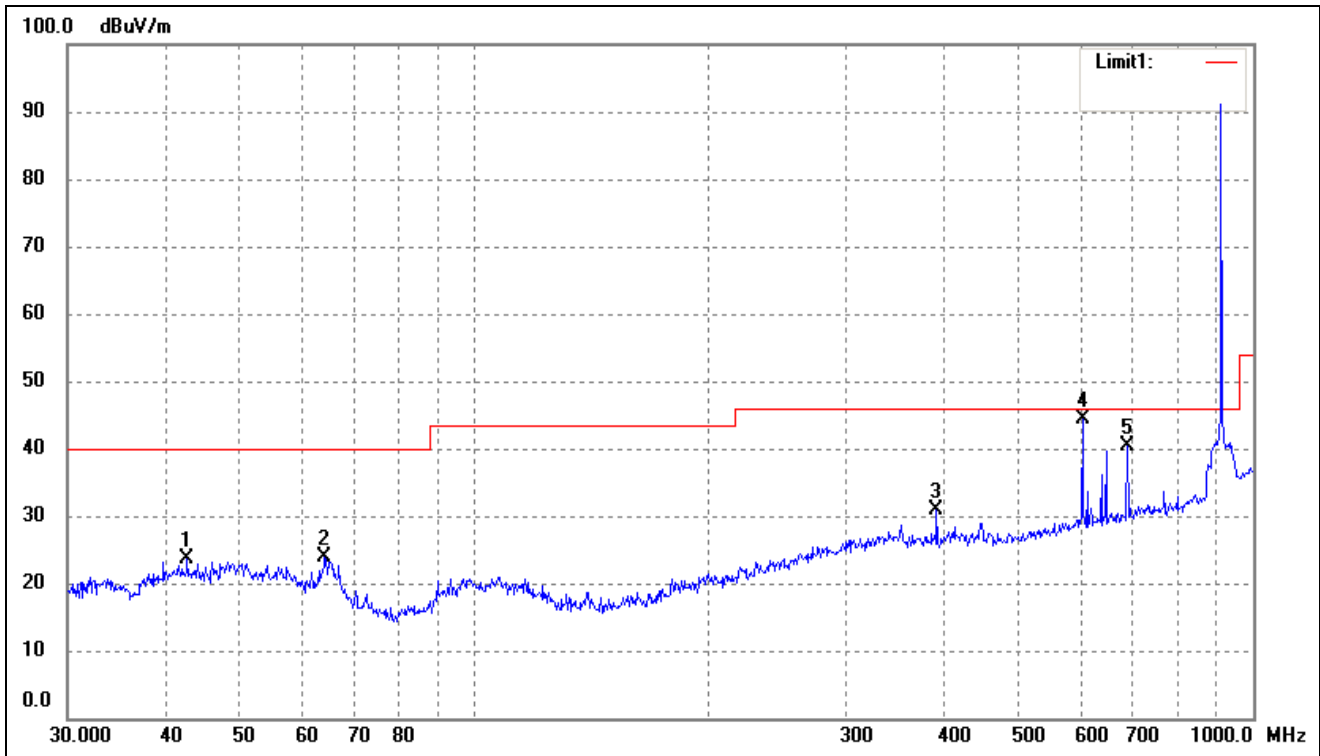
➤ Spurious Emissions Below 1GHz

Test Channel	Low	Polarity:	Horizontal
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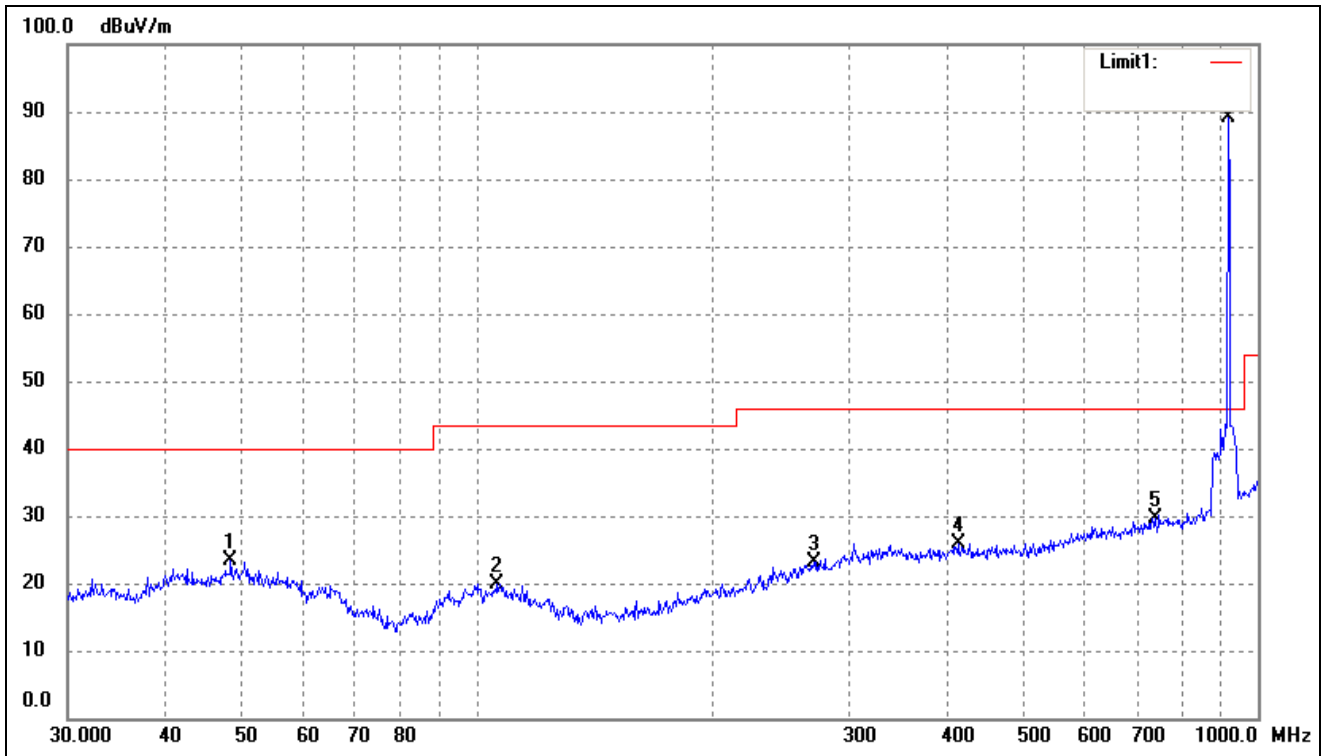
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	67.2022	48.35	-16.08	32.27	40.00	-7.73	261	100	peak
2	116.1321	47.09	-14.94	32.15	43.50	-11.35	94	100	peak
3	261.9753	37.77	-9.17	28.60	46.00	-17.40	247	100	peak
4	294.1137	38.77	-7.58	31.19	46.00	-14.81	90	100	peak
5	597.2234	43.68	-3.99	39.69	46.00	-6.31	106	100	peak
6	909.6666	86.39	1.64	88.03	114.00	-25.97	188	100	peak

Test Channel	Low	Polarity:	Vertical
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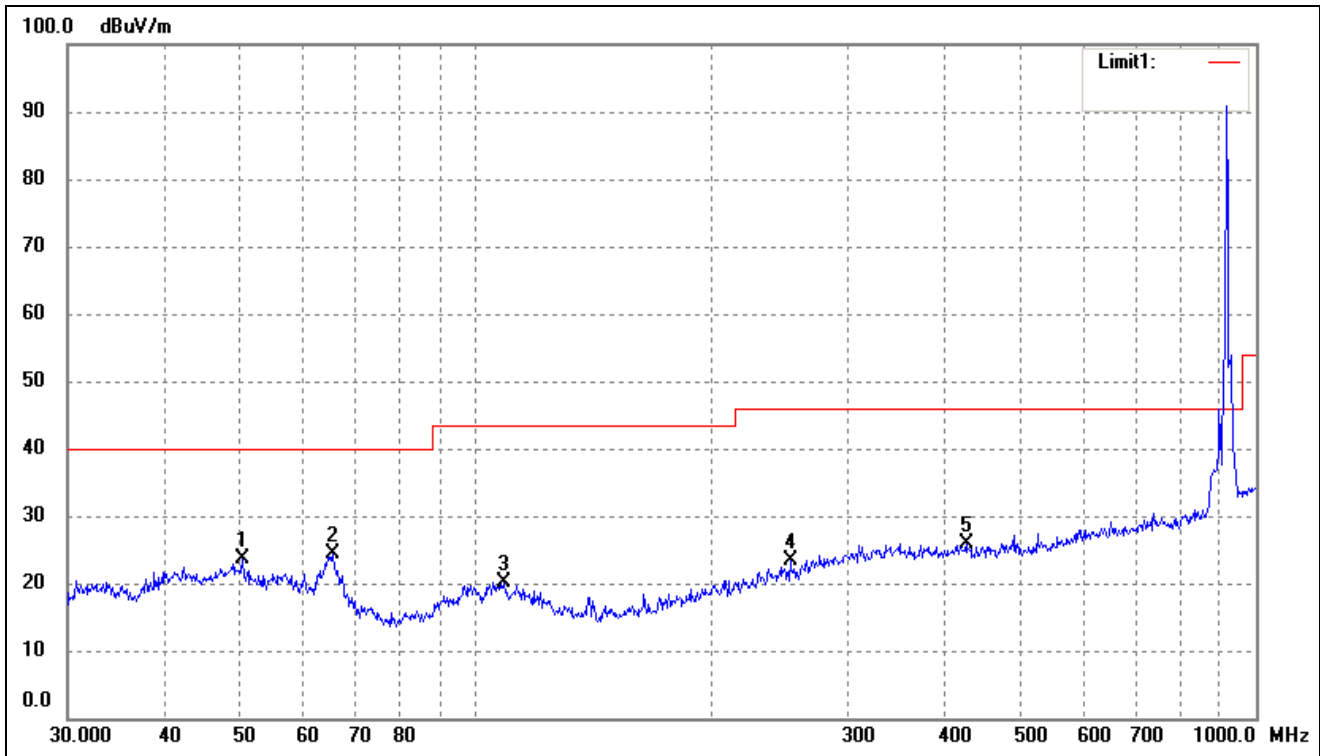
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	42.7496	36.84	-13.20	23.64	40.00	-16.36	285	100	peak
2	64.2074	39.02	-15.13	23.89	40.00	-16.11	95	100	peak
3	392.0951	37.62	-6.75	30.87	46.00	-15.13	221	100	peak
4	603.5392	48.22	-3.95	44.27	46.00	-1.73	120	100	peak
5	689.5644	43.03	-2.73	40.30	46.00	-5.70	186	100	peak
6	909.6666	89.49	1.64	91.13	114.00	-22.87	211	100	peak

Test Channel	High	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	48.5016	36.08	-12.81	23.27	40.00	-16.73	274	100	peak
2	106.3850	33.97	-14.00	19.97	43.50	-23.53	282	100	peak
3	270.3748	31.86	-8.79	23.07	46.00	-22.93	84	100	peak
4	413.2706	32.20	-6.22	25.98	46.00	-20.02	152	100	peak
5	739.6604	31.37	-1.84	29.53	46.00	-16.47	239	100	peak
6	916.0687	87.31	1.80	89.11	114.00	-24.89	234	100	peak

Test Channel	High	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	50.2324	36.53	-12.92	23.61	40.00	-16.39	82	100	peak
2	65.5727	39.94	-15.45	24.49	40.00	-15.51	340	100	peak
3	108.6470	34.14	-13.95	20.19	43.50	-23.31	98	100	peak
4	252.9482	33.17	-9.68	23.49	46.00	-22.51	342	100	peak
5	425.0280	32.18	-6.22	25.96	46.00	-20.04	135	100	peak
6	916.0687	89.10	1.80	90.90	114.00	-23.10	258	100	peak

Spurious Emissions Above 1GHz

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-908.4MHz							
1816.8	58.21	-0.52	57.69	74	-16.31	H	PK
1816.8	40.71	-0.52	40.19	54	-13.81	H	AV
1816.8	59.7	-3.59	56.11	74	-17.89	V	PK
1816.8	40.49	-3.59	36.9	54	-17.1	V	AV
High Channel-916MHz							
1832.0	61.78	-0.52	61.26	74	-12.74	H	PK
1832.0	38.12	-0.52	37.6	54	-16.4	H	AV
1832.0	58.04	-3.59	54.45	74	-19.55	V	PK
1832.0	41.41	-3.59	37.82	54	-16.18	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 2th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz..

5. Out of Band Emissions

5.1 Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

As the radiation test, set the Lowest and Highest Transmitting Channel, observed the outside band of 902MHz to 928MHz, than mark the higher-level emission for comparing with the FCC rules.

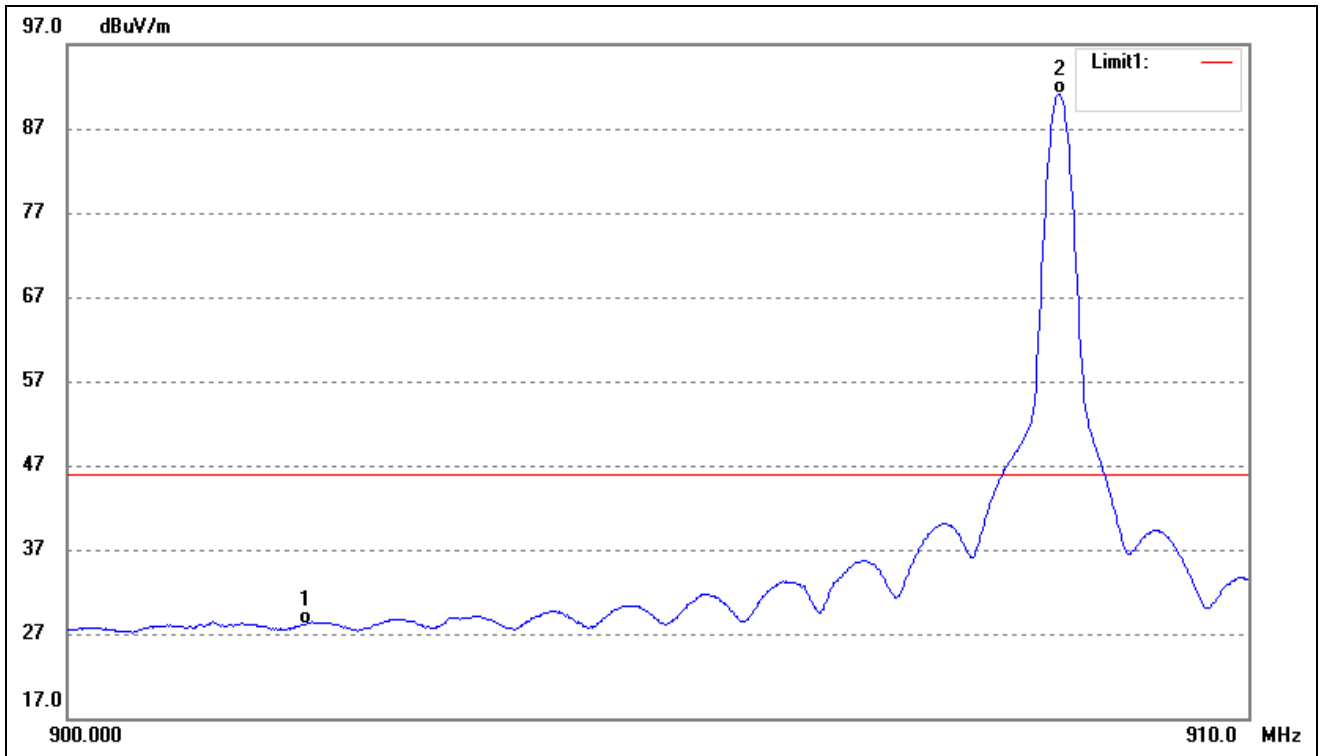
5.3 Summary of Test Results/Plots

Test mode	Frequency	Limit	Result
	MHz	dBuV / dBc	
Lowest	902	<46 dBuV	Pass
Highest	928	<46 dBuV	Pass

The edge emissions are below the FCC 15.209 Limits or complies with the 15.249 requirements.

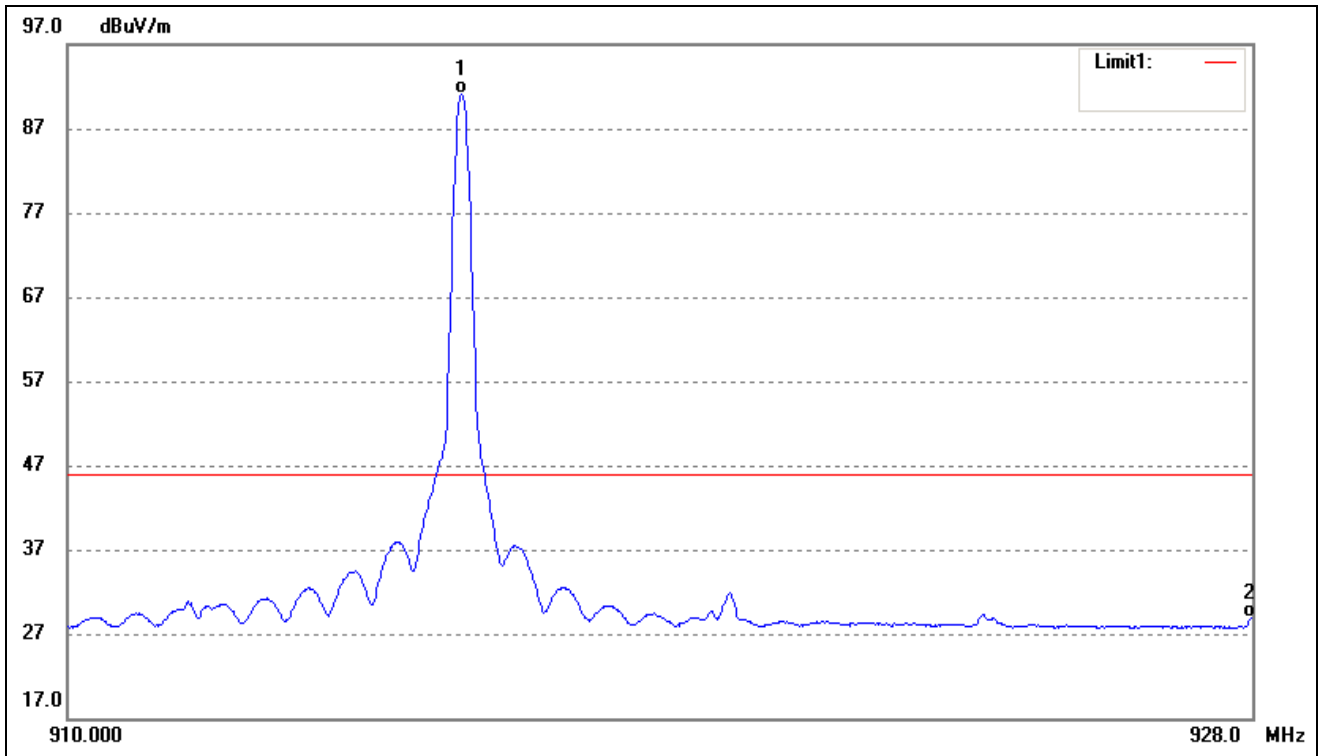
Please refer to the test plots as below.

Test Channel	Low	Polarity:	Horizontal(worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	902.0000	26.69	1.44	28.13	46.00	-17.87	Ave Detector
	902.0000	39.69	1.44	41.13	46.00	-4.87	Peak Detector
2	908.3926	81.71	1.60	83.31	94.00	-10.69	Ave Detector
	908.3926	89.53	1.60	91.13	114.00	-27.87	Peak Detector

Test Channel	High	Polarity:	Horizontal(worst case)
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No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	915.9549	89.33	1.80	91.13	94.00	-2.87	Ave Detector
	915.9190	91.00	1.80	92.80	114.00	-21.20	Peak Detector
2	928.0000	26.98	2.01	28.99	46.00	-17.01	Ave Detector
	928.0000	38.97	2.01	40.98	46.00	-5.02	Peak Detector

6. Emission Bandwidth

6.1 Standard Applicable

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

6.2 Test Procedure

According to the ANSI 63.10-2013, the emission bandwidth test method as follows.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Set span = 1MHz, centered on a transmitting channel

RBW \geq 1% 20dB Bandwidth, VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

6.3 Summary of Test Results/Plots

Test Channel	20dB Bandwidth(kHz)
Low Channel	161.669
High Channel	170.853

Please refer to the following test plots

<p>Low Channel</p>	 <p>Agilent R T</p> <p>Ch Freq 908.375 MHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 0 dBm Atten 10 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 908.4 MHz Span 1 MHz</p> <p>#Res BW 30 kHz #VBW 100 kHz Sweep 5 ms (401 pts)</p> <p>Occupied Bandwidth 142.6424 kHz</p> <p>Occ BW % Pwr 99.00 % x dB -20.00 dB</p> <p>Transmit Freq Error 16.308 kHz</p> <p>x dB Bandwidth 161.669 kHz</p> <p>Marker: Select Marker 1 2 3 4, Normal, Delta, Delta Pair (Tracking Ref) Ref Delta, Span Pair Span Center, Off, More 1 of 2</p>
<p>High Channel</p>	 <p>Agilent R T</p> <p>Ch Freq 916 MHz Trig Free</p> <p>Occupied Bandwidth</p> <p>Ref 0 dBm Atten 10 dB</p> <p>#Peak Log 10 dB/</p> <p>Center 916 MHz Span 1 MHz</p> <p>#Res BW 30 kHz #VBW 100 kHz Sweep 5 ms (401 pts)</p> <p>Occupied Bandwidth 150.1108 kHz</p> <p>Occ BW % Pwr 99.00 % x dB -20.00 dB</p> <p>Transmit Freq Error -6.444 kHz</p> <p>x dB Bandwidth 170.853 kHz</p> <p>Meas Setup: Avg Number 10 On Off, Avg Mode Exp Repeat, Max Hold On Off, Occ BW % Pwr 99.00 %, OBW Spar 1.00000000 MHz, x dB -20.00 dB, Optimize Ref Level</p>

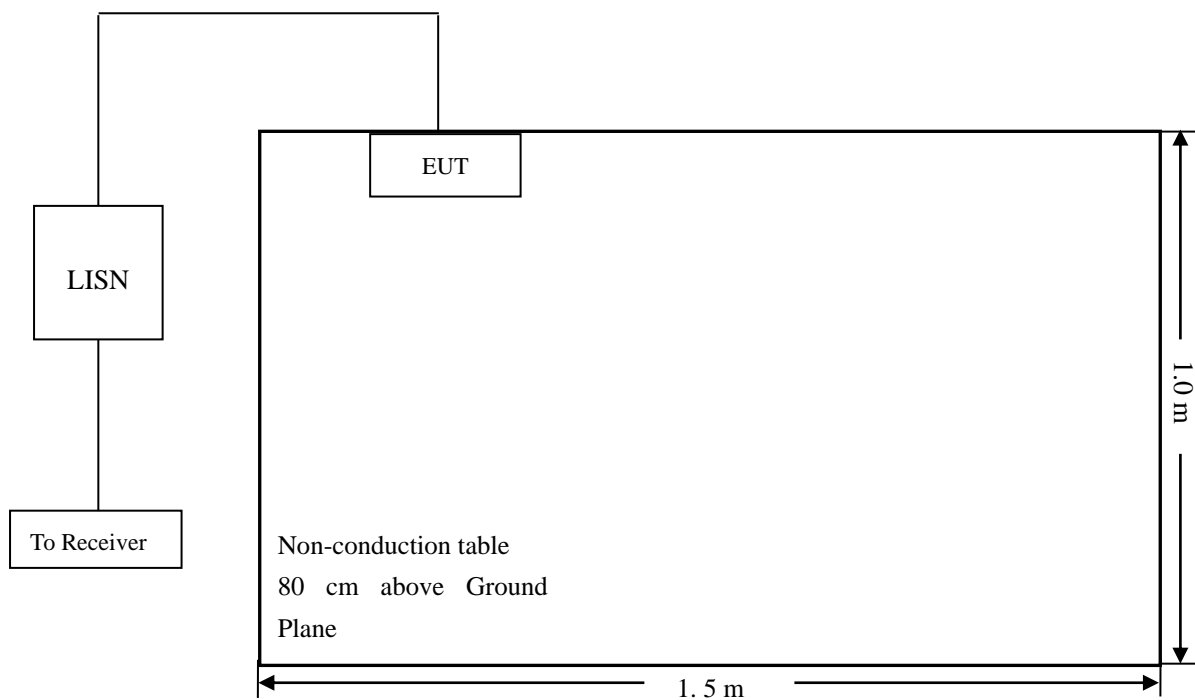
7. Conducted Emissions

7.1 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.

7.2 Basic Test Setup Block Diagram



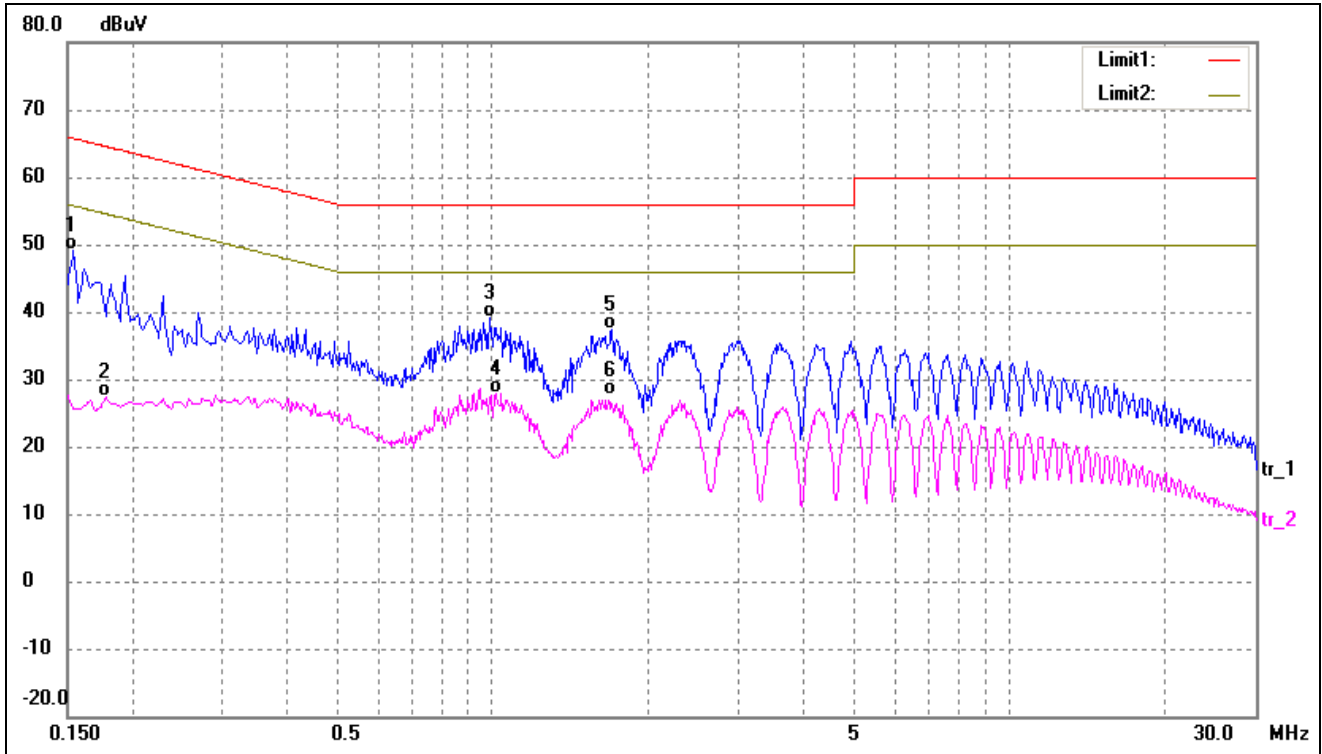
7.3 Test Receiver Setup

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

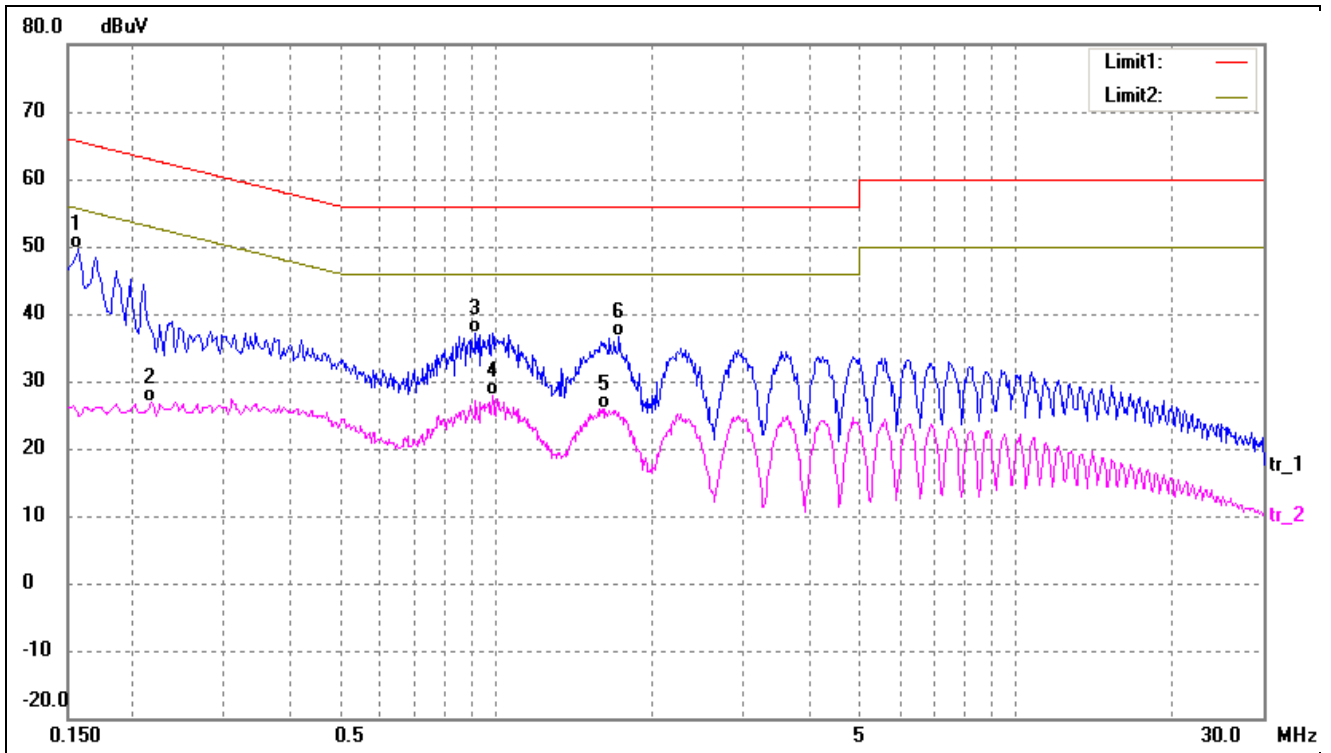
7.4 Summary of Test Results/Plots

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*	0.1539	38.99	10.10	49.09	65.78	-16.69	QP
2	0.1780	17.23	10.11	27.34	54.57	-27.23	AVG
3	0.9860	28.55	10.50	39.05	56.00	-16.95	QP
4	1.0180	17.38	10.50	27.88	46.00	-18.12	AVG
5	1.7060	26.77	10.57	37.34	56.00	-18.66	QP
6	1.7060	17.10	10.57	27.67	46.00	-18.33	AVG

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1580	39.44	10.10	49.54	65.56	-16.02	QP
2	0.2180	16.85	10.13	26.98	52.89	-25.91	AVG
3	0.9180	26.67	10.47	37.14	56.00	-18.86	QP
4	0.9860	17.44	10.50	27.94	46.00	-18.06	AVG
5	1.6220	15.31	10.56	25.87	46.00	-20.13	AVG
6	1.7300	25.98	10.58	36.56	56.00	-19.44	QP

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