




FCC Part 15C Measurement and Test Report

For

Acrox Technologies Co., Ltd.

4F., No.89, Minshan St., Neihu Dist., Taipei City 114, Taiwan, R. O. C

FCC ID: PRDKB34

FCC Rule(s):	<u>FCC Part 15.249</u>
Product Description:	<u>2.4GHz Wireless Keyboard With Multi-touchpad</u>
Tested Model:	<u>K2P</u>
Report No.:	<u>STR18018214I</u>
Sample Receipt Date:	<u>2018-01-17</u>
Tested Date:	<u>2018-01-18 to 2018-01-31</u>
Issued Date:	<u>2018-01-31</u>
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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.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Acrox Technologies Co., Ltd.
Address of applicant: 4F., No.89, Minshan St., Neihu Dist., Taipei City 114,
Taiwan, R. O. C

Manufacturer: Acrox Technologies Co., Ltd.
Address of manufacturer: Hsinmin Industria, Changan Town, Dongguan City,
Guangdong, China

General Description of EUT	
Product Name:	2.4GHz Wireless Keyboard With Multi-touchpad
Trade Name:	InFocus
Model No.:	K2P
Adding Model(s):	/
Rated Voltage:	DC 3.0V by AAA Battery*2
Software Version:	V1.0
Hardware Version:	V1.0
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	2406MHz-2478MHz
Max. Field Strength:	78.43dBuV/m (3m)
Data Rate:	2Mbps
Modulation:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Lowest Internal Frequency of EUT:	12MHz

1.2 Test Standards

The following report is prepared on behalf of the Acrox Technologies Co., Ltd. in accordance with FCC Part 15, Subpart B, Subpart C, and section 15.107, 15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.107,15.203, 15.205, 15.207, 15.209 and 15.249 of the Federal Communication Commissions rules.

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, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

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	2406MHz
TM2	Middle Channel	2444MHz
TM3	High Channel	2478MHz

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	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
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 $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2017-06-12	2018-06-11
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2017-06-12	2018-06-11
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2017-06-12	2018-06-11
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2017-06-12	2018-06-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2017-06-12	2018-06-11
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2018-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2018-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2018-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2018-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2017-06-12	2018-06-11
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2017-06-12	2018-06-11
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2017-06-12	2018-06-11
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2017-08-15	2018-08-14
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2017-08-15	2018-08-14
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2017-06-12	2018-06-11
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2017-03-09	2018-03-08

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	N/A
§ 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

N/A means' not application

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 a PCB 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

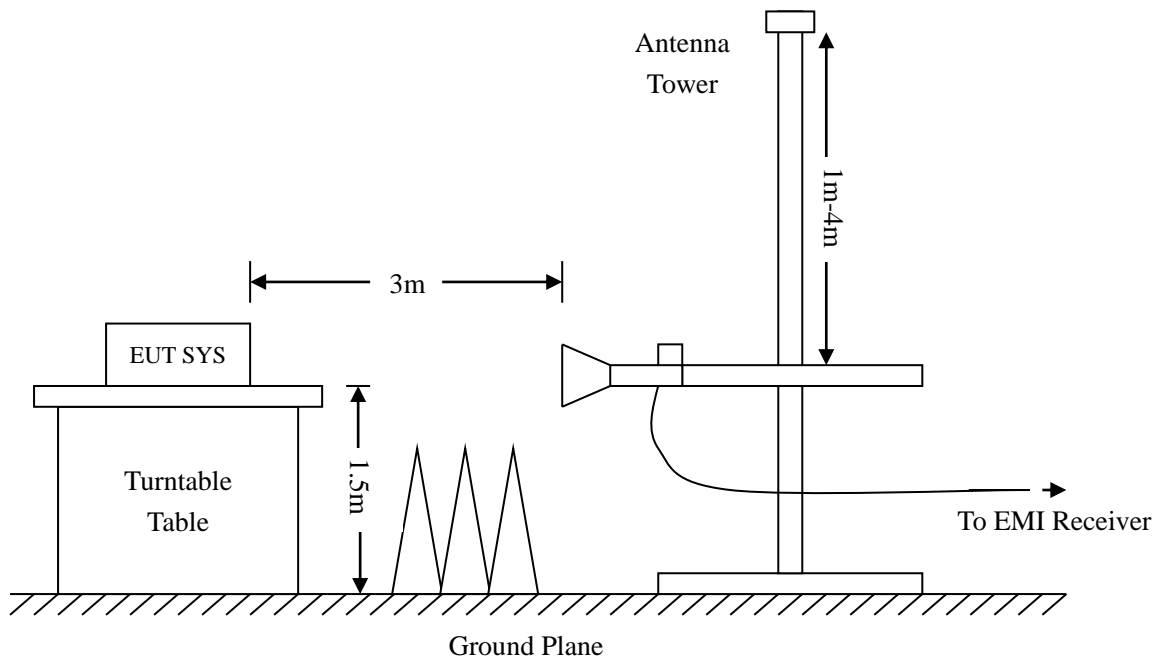
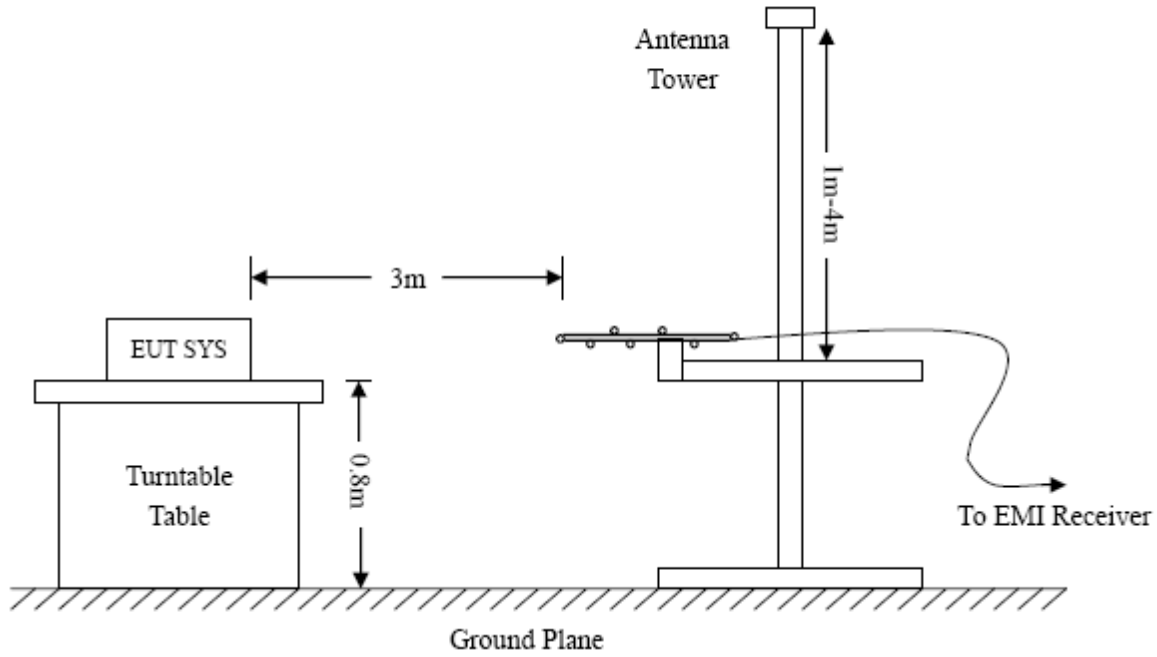
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

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 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

4.5 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.249 standards, and had the worst margin of:

-12.61 dB at 4812 MHz in the Horizontal polarization, Low Channel, 9 kHz to 25 GHz, 3Meters

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

Plot of Radiated Emissions Test Data (30MHz to 1GHz)

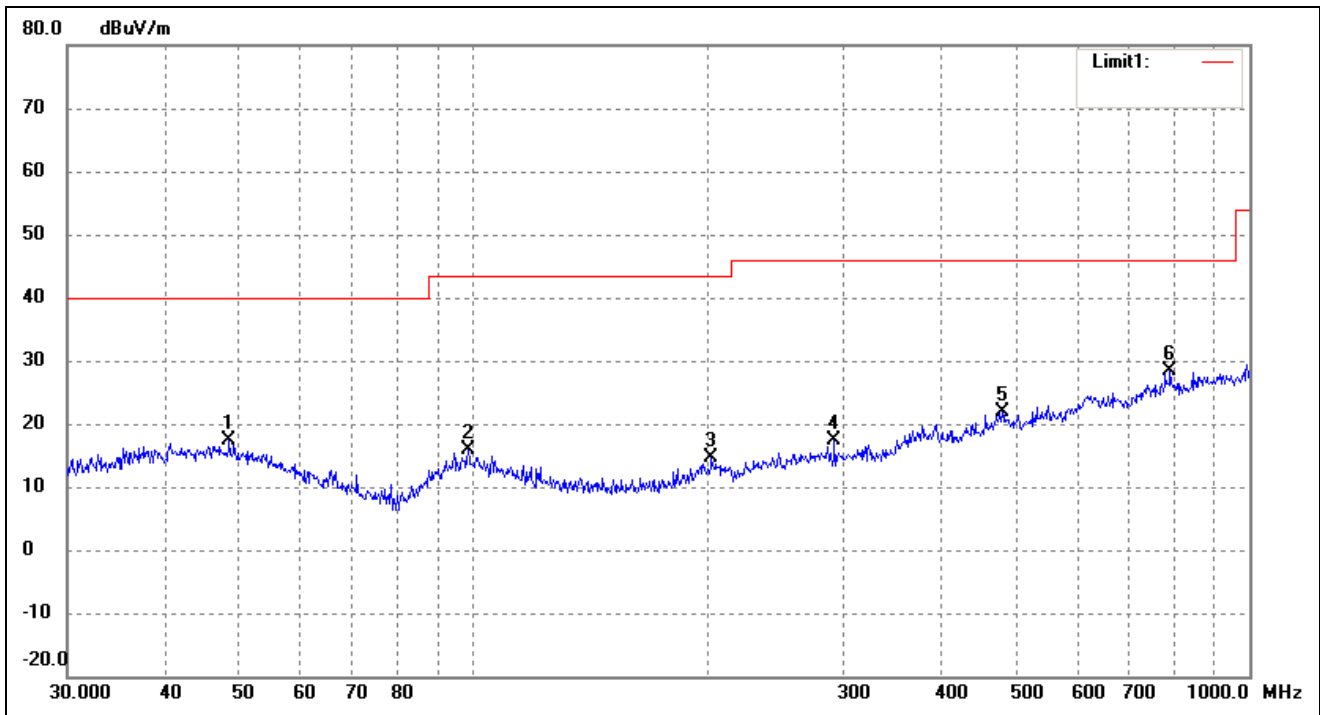
EUT: 2.4GHz Wireless Keyboard With Multi-touchpad

Tested Model: K2P

Operating Condition: Transmitting Low Channel (2406MHz)

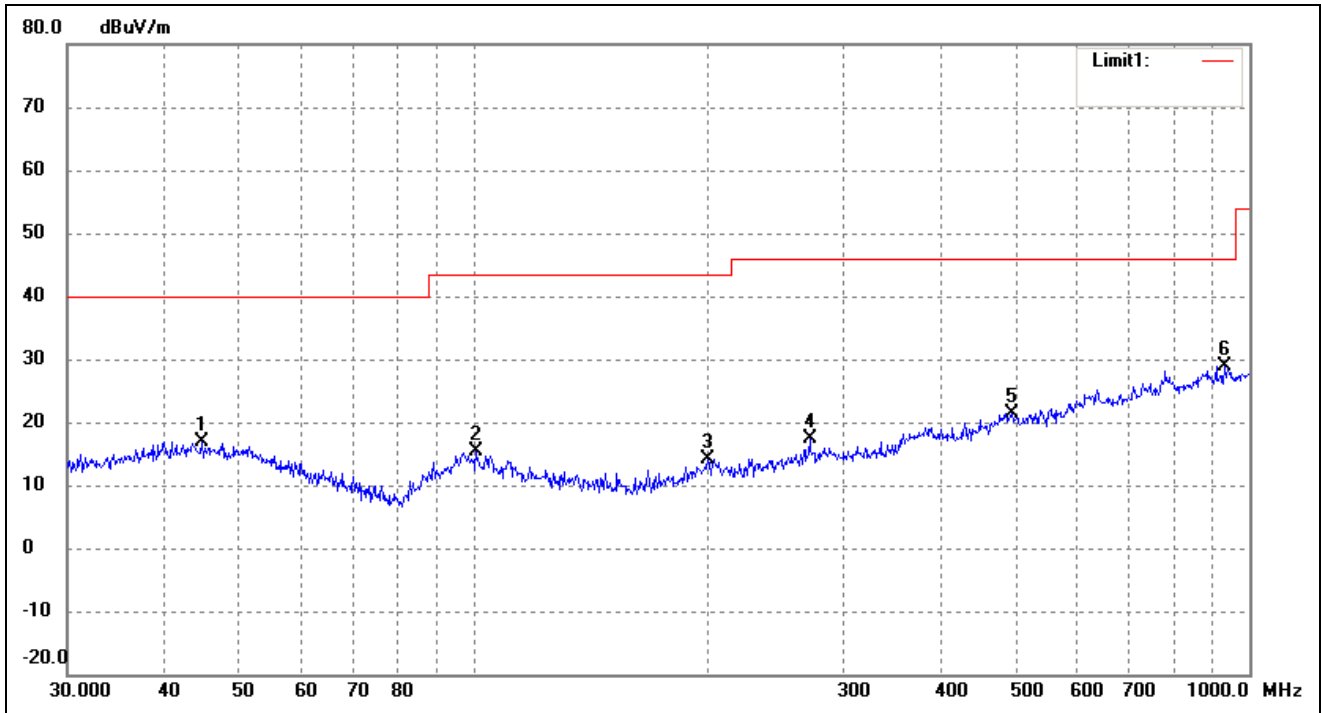
Comment: DC 3V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.5016	27.97	-10.67	17.30	40.00	-22.70	54	100	peak
2	98.4866	27.65	-11.73	15.92	43.50	-27.58	178	100	peak
3	202.8104	26.42	-11.72	14.70	43.50	-28.80	104	100	peak
4	292.0583	27.13	-9.66	17.47	46.00	-28.53	111	100	peak
5	480.5276	27.12	-5.36	21.76	46.00	-24.24	270	100	peak
6	790.6188	28.10	0.21	28.31	46.00	-17.69	177	100	peak

Test Specification: Vertical

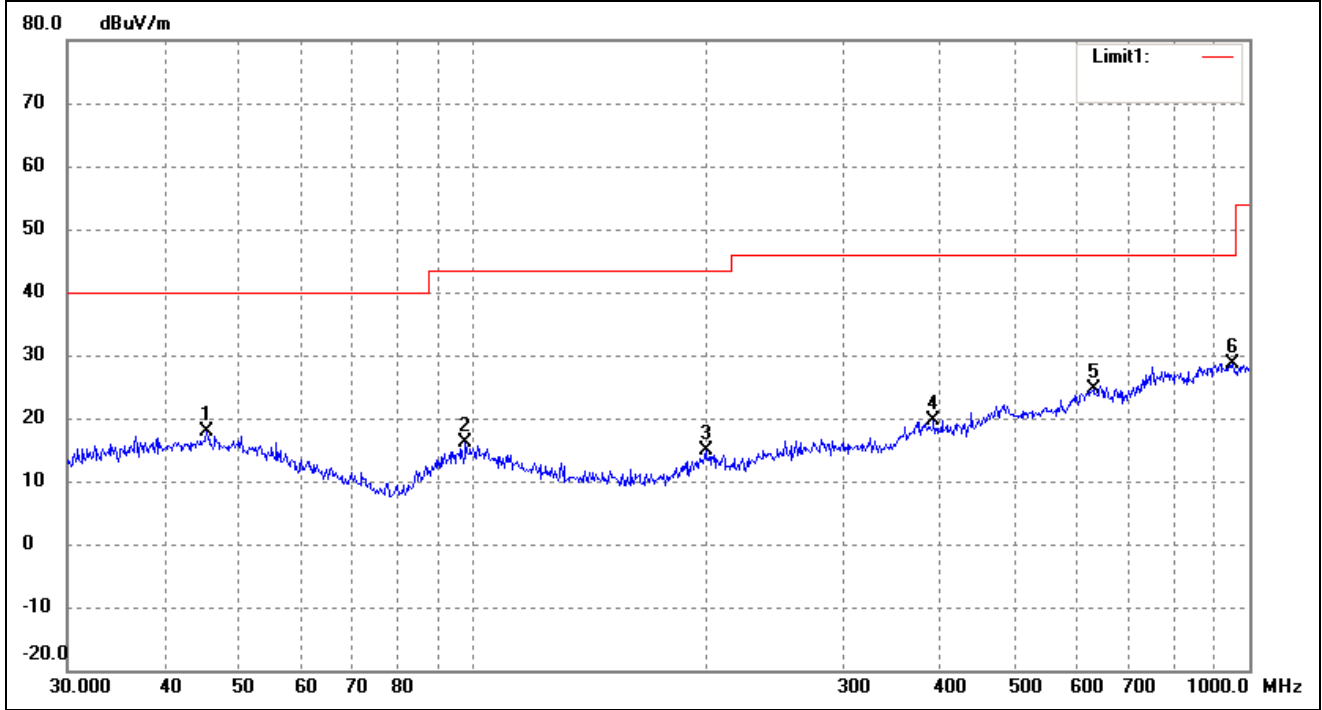


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.7434	27.25	-10.44	16.81	40.00	-23.19	171	100	peak
2	100.9340	26.77	-11.51	15.26	43.50	-28.24	178	100	peak
3	200.6881	25.76	-11.63	14.13	43.50	-29.37	110	100	peak
4	271.3246	27.09	-9.76	17.33	46.00	-28.67	142	100	peak
5	494.1984	27.42	-5.95	21.47	46.00	-24.53	243	100	peak
6	929.0082	26.88	2.00	28.88	46.00	-17.12	198	100	peak

Operating Condition: Transmitting Middle Channel (2444MHz)

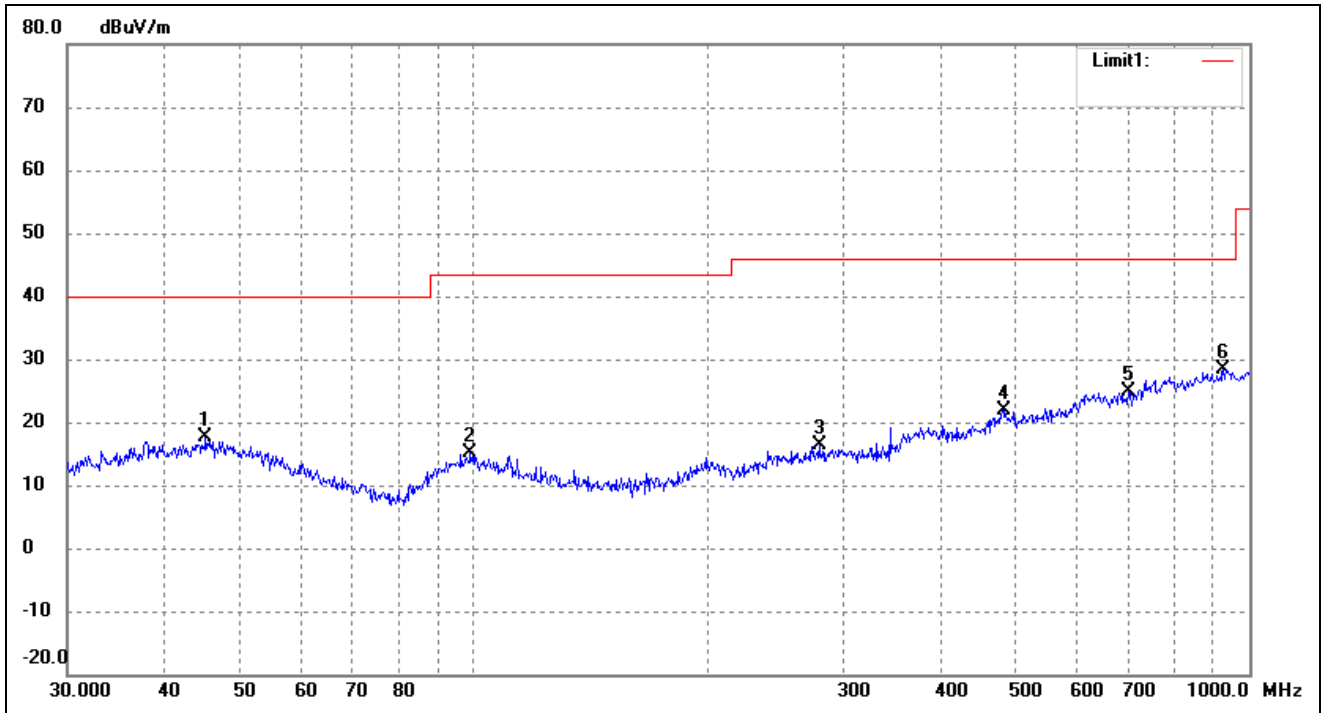
Comment: DC 3V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.3755	28.42	-10.60	17.82	40.00	-22.18	333	100	peak
2	97.7983	27.99	-11.88	16.11	43.50	-27.39	277	100	peak
3	199.2855	26.53	-11.69	14.84	43.50	-28.66	99	100	peak
4	392.0951	26.89	-7.36	19.53	46.00	-26.47	334	100	peak
5	629.4772	27.64	-2.99	24.65	46.00	-21.35	129	100	peak
6	952.0937	26.84	1.85	28.69	46.00	-17.31	143	100	peak

Test Specification: Vertical

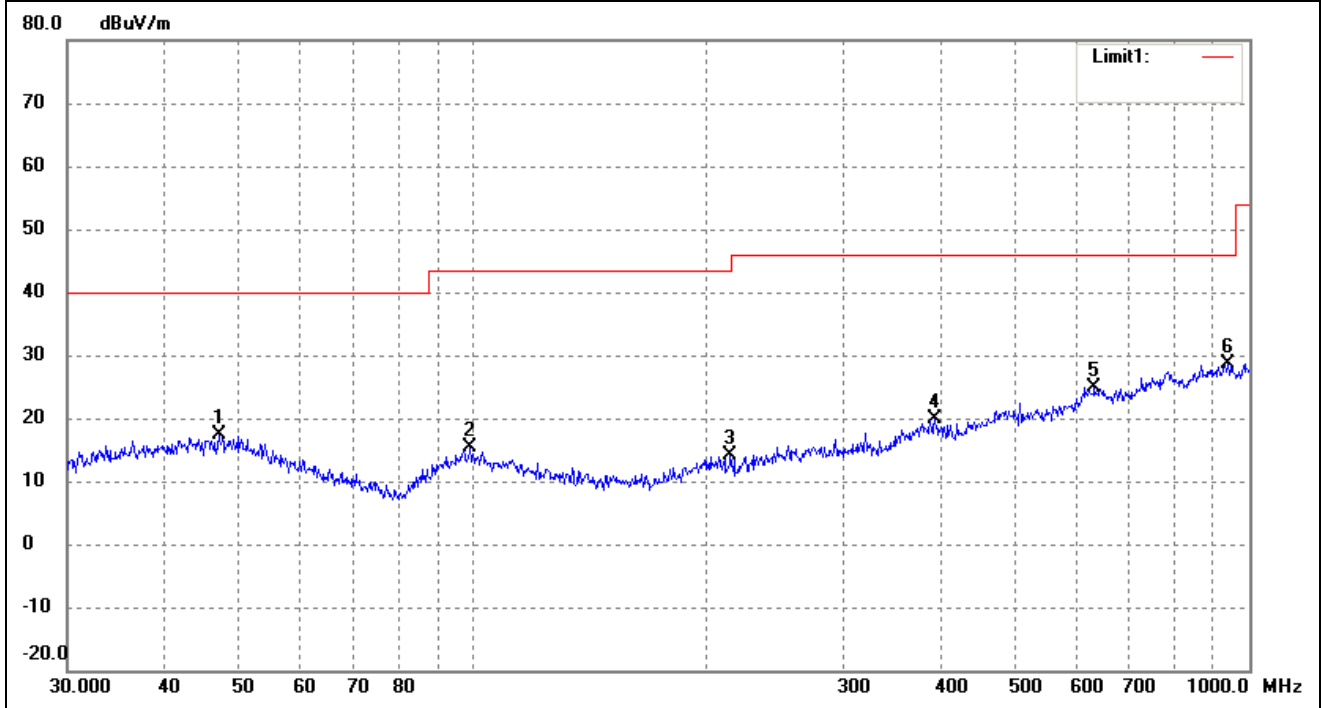


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.2166	28.02	-10.45	17.57	40.00	-22.43	118	100	peak
2	99.1797	26.66	-11.58	15.08	43.50	-28.42	128	100	peak
3	279.0436	25.96	-9.53	16.43	46.00	-29.57	57	100	peak
4	482.2156	27.27	-5.44	21.83	46.00	-24.17	350	100	peak
5	699.3046	28.34	-3.40	24.94	46.00	-21.06	239	100	peak
6	925.7563	26.54	1.90	28.44	46.00	-17.56	130	100	peak

Operating Condition: Transmitting High Channel (2478MHz)

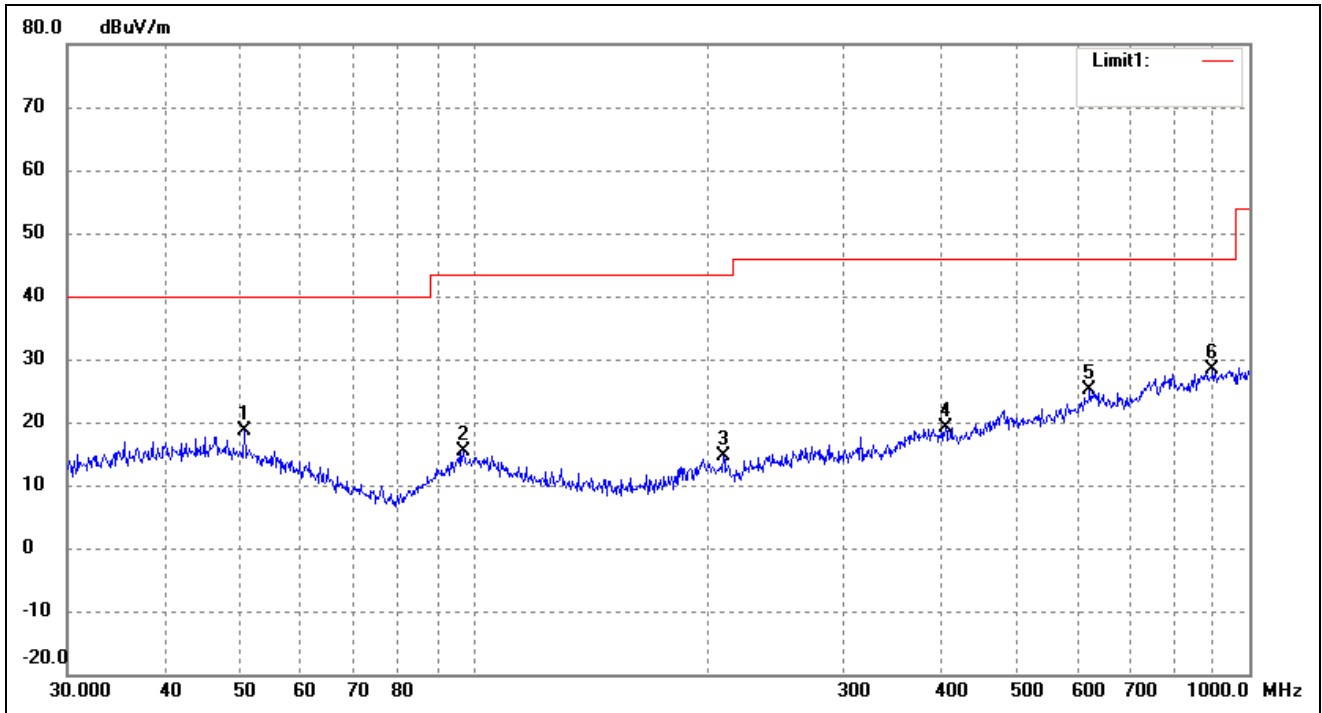
Comment: DC 3V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	46.9948	28.05	-10.64	17.41	40.00	-22.59	262	100	peak
2	99.1797	27.02	-11.58	15.44	43.50	-28.06	93	100	peak
3	214.5143	26.44	-12.24	14.20	43.50	-29.30	241	100	peak
4	393.4724	27.35	-7.41	19.94	46.00	-26.06	103	100	peak
5	631.6884	27.99	-3.03	24.96	46.00	-21.04	278	100	peak
6	938.8326	26.24	2.27	28.51	46.00	-17.49	237	100	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	50.7637	29.32	-10.65	18.67	40.00	-21.33	279	100	peak
2	97.1148	27.33	-12.04	15.29	43.50	-28.21	98	100	peak
3	210.0482	26.57	-12.04	14.53	43.50	-28.97	300	100	peak
4	406.0880	26.90	-7.70	19.20	46.00	-26.80	107	100	peak
5	622.8900	27.99	-2.85	25.14	46.00	-20.86	208	100	peak
6	896.9965	27.02	1.41	28.43	46.00	-17.57	225	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-2406MHz							
2406	79.01	-3.59	75.42	114	-38.58	H	PK
2406	69.28	-3.59	65.69	94	-28.31	H	AV
4812	59.56	-3.59	55.97	74	-18.03	H	PK
4812	44.98	-3.59	41.39	54	-12.61	H	AV
7218	44.19	-0.52	43.67	74	-30.33	H	PK
7218	33.34	-0.52	32.82	54	-21.18	H	AV
2406	75.85	-3.59	72.26	114	-41.74	V	PK
2406	67.44	-3.59	63.85	94	-30.15	V	AV
4812	49.27	-3.59	45.68	74	-28.32	V	PK
4812	35.27	-3.59	31.68	54	-22.32	V	AV
7218	44.91	-0.52	44.39	74	-29.61	V	PK
7218	32.43	-0.52	31.91	54	-22.09	V	AV
Middle Channel-2444MHz							
2444	82.02	-3.59	78.43	114	-35.57	H	PK
2444	69.56	-3.59	65.97	94	-28.03	H	AV
4888	59.92	-3.49	56.43	74	-17.57	H	PK
4888	44.11	-3.49	40.62	54	-13.38	H	AV
7332	42.15	-0.47	41.68	74	-32.32	H	PK
7332	30.31	-0.47	29.84	54	-24.16	H	AV
2444	79.02	-3.59	75.43	114	-38.57	V	PK
2444	69.40	-3.59	65.81	94	-28.19	V	AV
4888	51.43	-3.49	47.94	74	-26.06	V	PK
4888	42.08	-3.49	38.59	54	-15.41	V	AV
7332	44.47	-0.47	44.00	74	-30.00	V	PK
7332	32.28	-0.47	31.81	54	-22.19	V	AV

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2478MHz							
2478	78.68	-3.59	75.09	114	-38.91	H	PK
2478	67.90	-3.59	64.31	94	-29.69	H	AV
4956	53.98	-3.41	50.57	74	-23.43	H	PK
4956	39.32	-3.41	35.91	54	-18.09	H	AV
7434	43.73	-0.42	43.31	74	-30.69	H	PK
7434	32.23	-0.42	31.81	54	-22.19	H	AV
2478	75.66	-3.59	72.07	114	-41.93	V	PK
2478	78.01	-3.59	74.42	94	-19.58	V	AV
4956	47.50	-3.41	44.09	74	-29.91	V	PK
4956	37.64	-3.41	34.23	54	-19.77	V	AV
7434	43.35	-0.42	42.93	74	-31.07	V	PK
7434	32.51	-0.42	32.09	54	-21.91	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 5th 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 2400MHz to 2483.5MHz, than mark the higher-level emission for comparing with the FCC rules.

5.3 Environmental Conditions

Temperature:	24 °C
Relative Humidity:	60 %
ATM Pressure:	1012 mbar

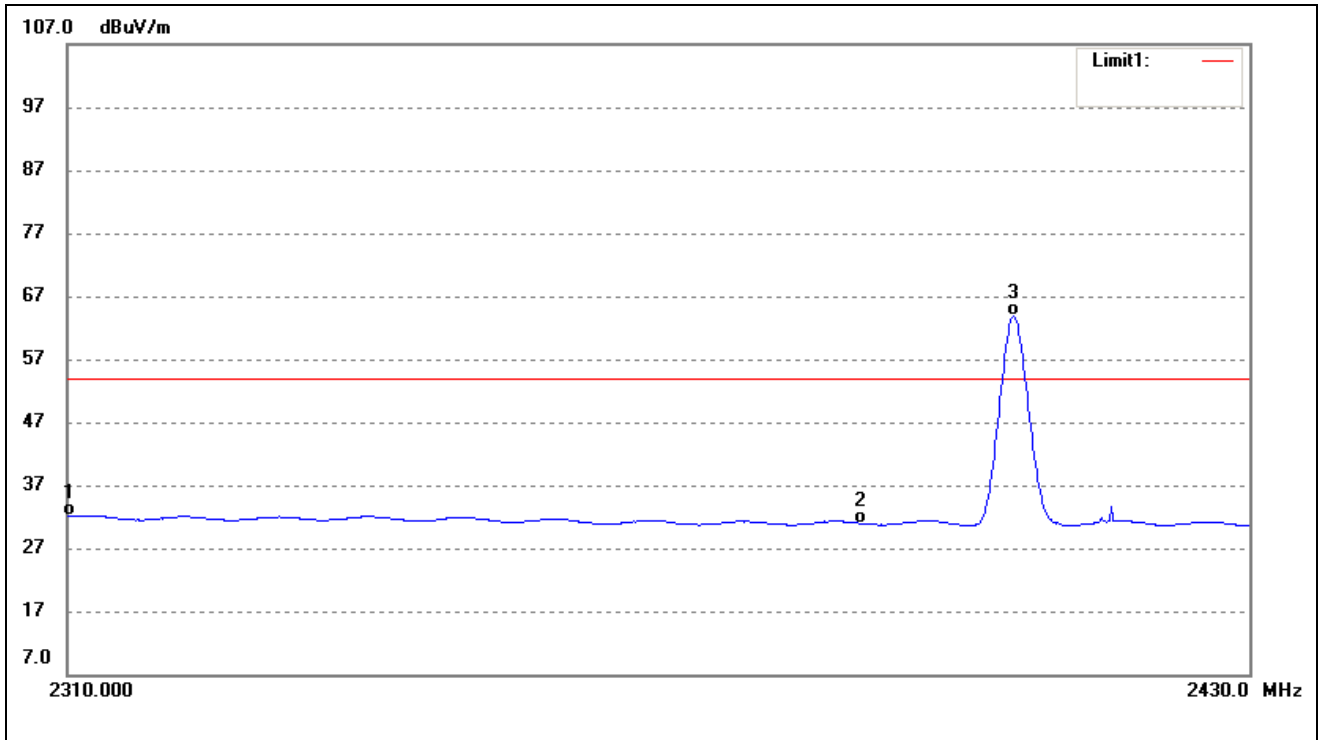
5.4 Summary of Test Results/Plots

Test mode	Frequency	Limit	Result
	MHz	dBuV / dBc	
Lowest	2310.00	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
	2400.00	<54 dBuV	Pass
Highest	2483.50	<54 dBuV	Pass
	2500.00	<54 dBuV	Pass

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

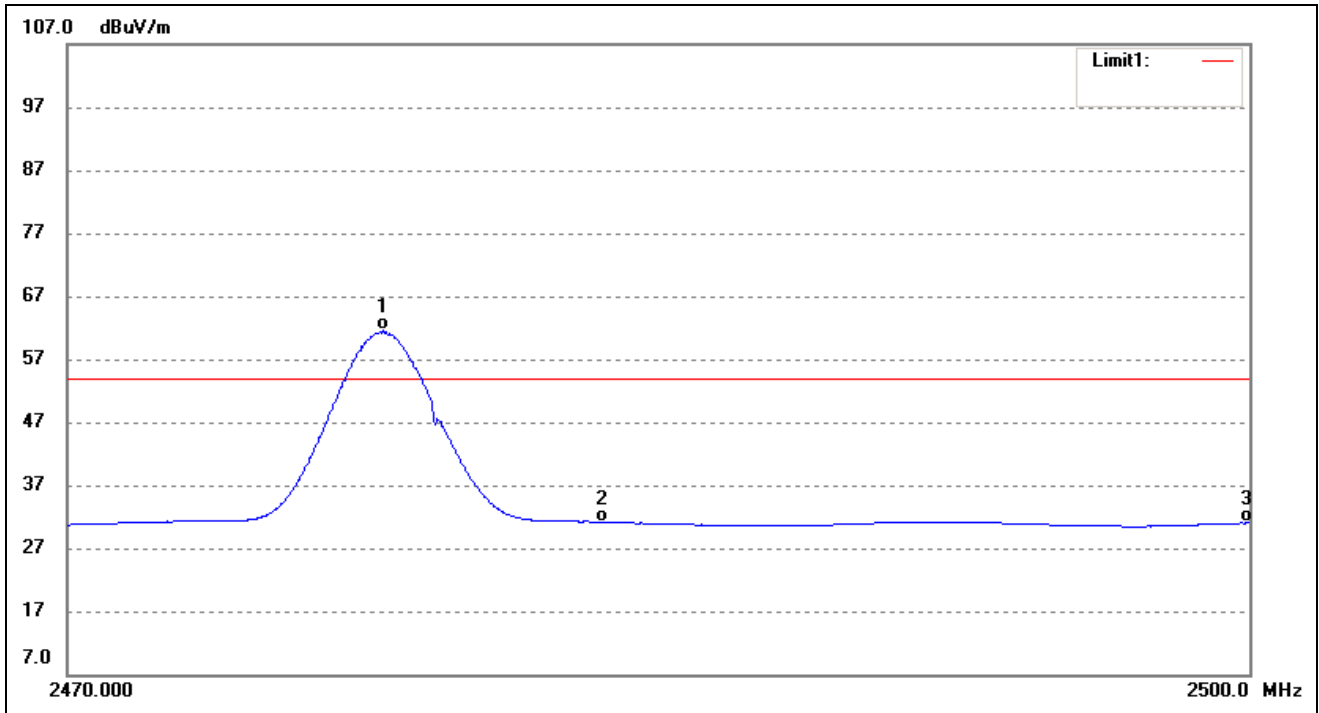
Please refer to the test plots as below.

Lowest Bandedge
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.00	38.55	-6.38	32.17	54.00	-21.83	Ave Detector
	2310.00	50.42	-6.38	44.04	74.00	-29.96	Peak Detector
2	2390.00	38.18	-7.26	30.92	54.00	-23.08	Ave Detector
	2390.00	49.92	-7.26	42.66	74.00	-31.34	Peak Detector
3	2405.51	71.27	-7.42	63.85	/	/	Ave Detector
	2405.88	79.68	-7.42	72.26	/	/	Peak Detector

Highest Bandedge
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2477.98	68.85	-7.29	61.56	/	/	Ave Detector
	2477.74	76.78	-7.29	69.49	/	/	Peak Detector
2	2483.50	38.48	-7.28	31.20	54.00	-22.80	Ave Detector
	2483.50	50.34	-7.28	43.06	74.00	-30.94	Peak Detector
3	2500.00	38.28	-7.25	31.03	54.00	-22.97	Ave Detector
	2500.00	50.65	-7.25	43.40	74.00	-30.60	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 Environmental Conditions

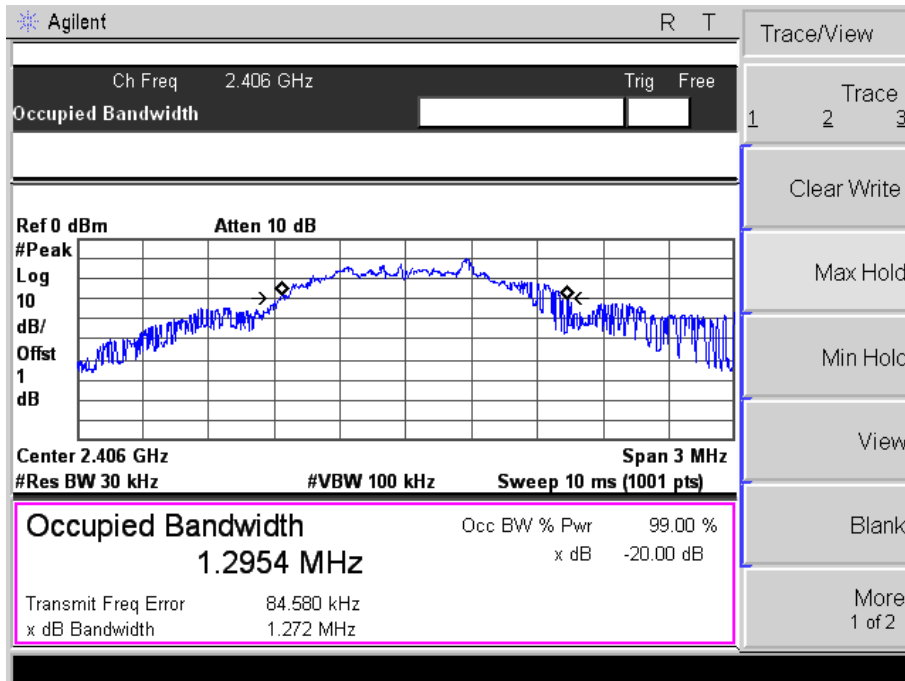
Temperature:	25 °C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

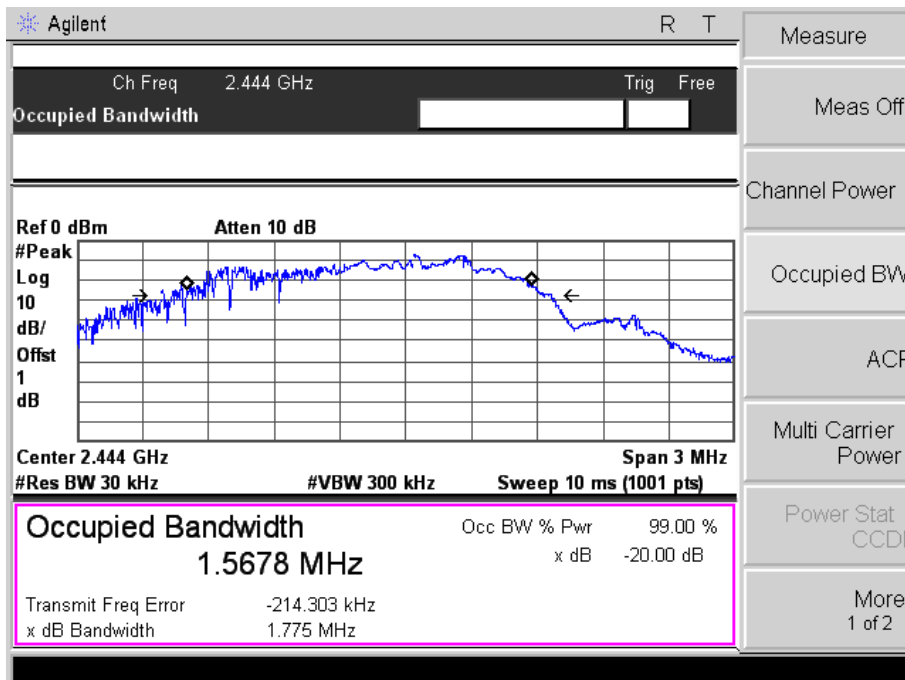
Channel	Frequency MHz	20dB Bandwidth kHz	99% Bandwidth kHz
Low Channel	2406	1272	1295.4
Middle Channel	2444	1775	1567.8
High Channel	2478	1206	1091.7

Please refer to the following test plots

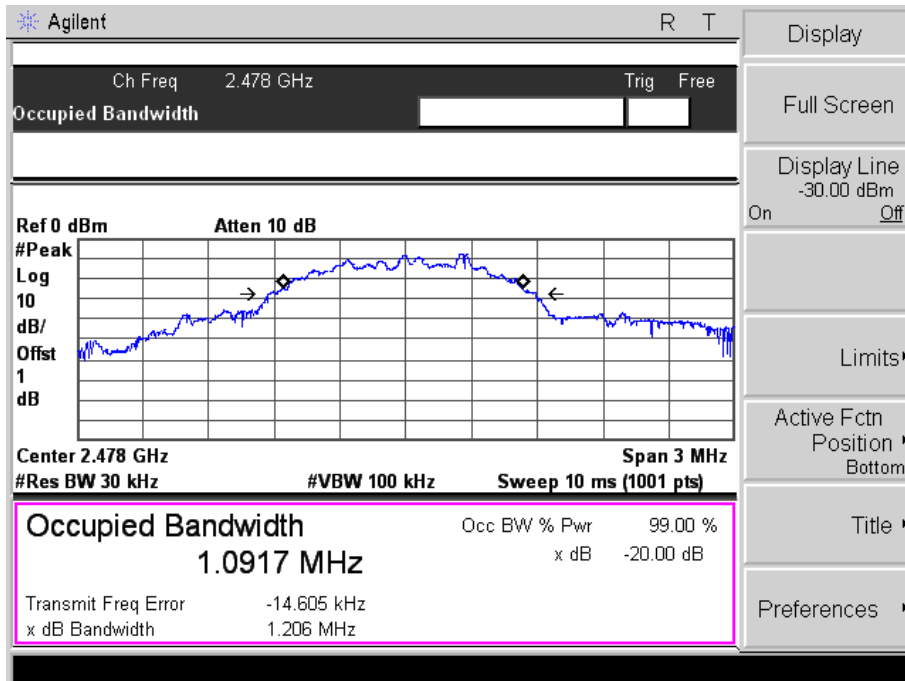
Low Channel:



Middle Channel:



High Channel:



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