

FCC Part 15C

Measurement and Test Report

For

Sky Phone LLC

1348 Washington Av.Suite 350 Miami Beach, FL 33139

FCC ID: 2ABOSSKYELITE70

FCC Rule(s):	<u>FCC Part 15.247</u>
Product Description:	<u>4G Tablet</u>
Tested Model:	<u>Elite 7.0L</u>
Report No.:	<u>STR16018007I-5</u>
Tested Date:	<u>2016-01-11 to 2016-01-22</u>
Issued Date:	<u>2016-01-22</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: Sky Phone LLC
Address of applicant: 1348 Washington Av.Suite 350 Miami Beach, FL 33139

Manufacturer: Shenzhen Tablet Electronics Limited
Address of manufacturer: 2F, B5b Building, Yingzhan Industrial Zone, Longtian Community, Kengzi Street, Longgang, Shenzhen, China

General Description of EUT	
Product Name:	4G Tablet
Brand Name:	SKY
Model No.:	Elite 7.0L
Adding Model:	LQ70, PLATINUM7.0, SKYPLA70
Adapter Model:	WTA0501500USB1
	INPUT:AC100-240V,50/60Hz,0.3A; OUTPUT:DC5V,1.5A
Hardware version:	S88D_MB_V1.1
Software version:	Elite_7.0L_20151202
IMEI:	358732055465047/358732055464966
Rated Voltage:	DC 3.7V Li-polymer Battery
Battery:	2800mAh
Device Category:	Portable Device
<i>The EUT Main board support GSM850/900/DCS1800/PCS1900, WCDMA Band 1/2/4/5, LTE Band 2/4/7/17 function. It is intended for speech, Multimedia Message Service (MMS) transmission and Elite 7.0L. It is equipped with GPRS/EDGE class 12 for GSM850/900/DCS1800/PCS1900, GPS, FM, Bluetooth and Wi-Fi functions. For more information see the following datasheet</i>	
<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 Elite 7.0L, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Bluetooth Version:	V4.0(BLE)
Frequency Range:	2402-2480MHz
RF Output Power:	-4.878dBm (Conducted)
Data Rate:	1Mbps
Modulation:	GFSK
Quantity of Channels:	40
Channel Separation:	2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	-2.60dBi
Lowest Internal frequency of EUT:	32.768kHz

1.2 Test Standards

The following report is prepared on behalf of the Sky Phone LLC in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

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, 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. The measurement guide KDB 558074 D01 v03r04 for digital transmission systems shall be performed also.

1.4 Test Facility

FCC – Registration No.: 934118

Shenzhen SEM.Test Technology 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 and the Registration is 934118.

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.

CNAS Registration No.: L4062

Shenzhen SEM.Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101).

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	GFSK(BLE)	2402MHz, 2442MHz, 2480MHz

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	0.86	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Earphone	1.2	Unshielded	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	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Emissions	Conducted	$\pm 2.88\text{dB}$
Transmitter Spurious Emissions	Radiated	$\pm 5.1\text{dB}$

1.7 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Spectrum Analyzer	Agilent	E4407B	MY41440400	2015-06-17	2016-06-16
Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2015-06-17	2016-06-16
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2015-06-17	2016-06-16
Amplifier	Agilent	8447F	3113A06717	2015-06-17	2016-06-16
Amplifier	C&D	PAP-1G18	2002	2015-06-17	2016-06-16
Broadband Antenna	Schwarz beck	VULB9163	9163-333	2015-06-17	2016-06-16
Horn Antenna	ETS	3117	00086197	2015-06-17	2016-06-16
Horn Antenna	ETS	3116B	00088203	2015-06-17	2016-06-16
Loop Antenna	Schwarz beck	FMZB 1516	9773	2015-06-17	2016-06-16
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2015-06-17	2016-06-16
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2015-06-17	2016-06-16
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2015-06-17	2016-06-16

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 2.1093	RF Exposure	Compliant
§ 15.203; § 15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.247(e)	Power Spectral Density	Compliant
§ 15.247(a)(2)	6 dB Bandwidth	Compliant
§ 15.247(b)(3)	RF Output Power	Compliant
§ 15.209(a)	Radiated Emission	Compliant
§ 15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: not applicable

3. RF Exposure

3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

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

4. Antenna Requirement

4.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

4.2 Evaluation Information

This product has an integral antenna, fulfill the requirement of this section.

5. Power Spectral Density

5.1 Standard Applicable

According to 15.247(a)(1)(iii), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.2 Test Procedure

According to the KDB 558074 D01 v03r04, the test method of power spectral density as below:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \times \text{RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 Environmental Conditions

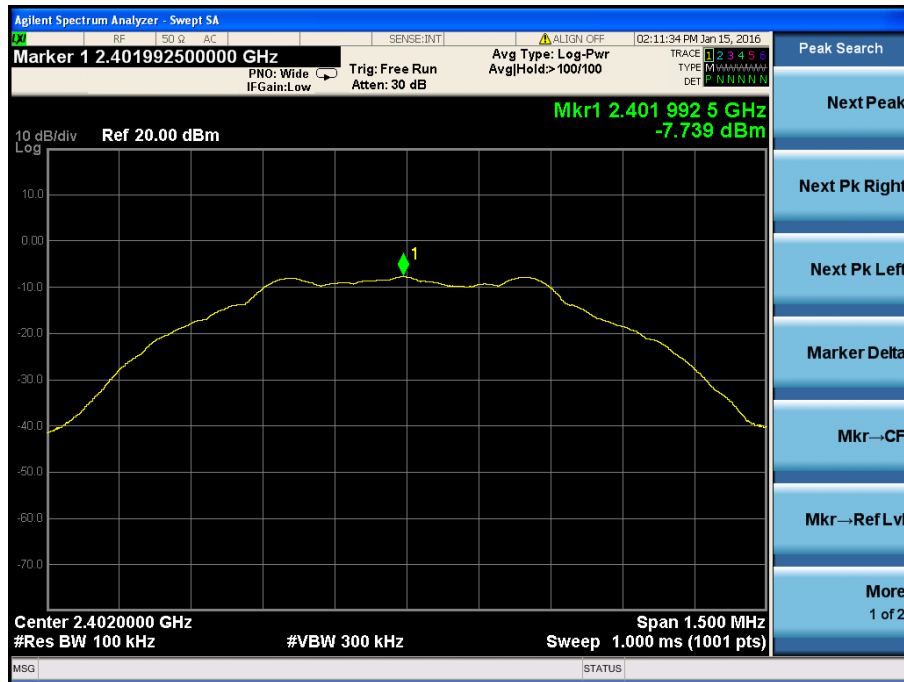
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

5.4 Summary of Test Results/Plots

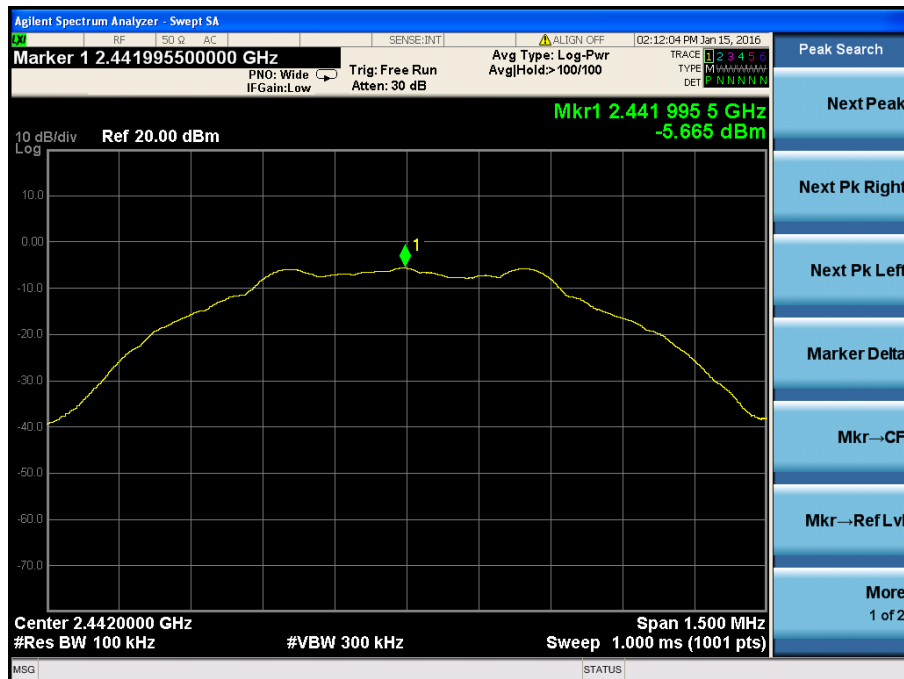
Test Mode	Test Channel MHz	Power Spectral Density dBm/100kHz	Limit dBm/3kHz
GFSK(BLE)	2402	-7.739	8
	2442	-5.665	8
	2480	-7.452	8

Please refer to the following test plots:

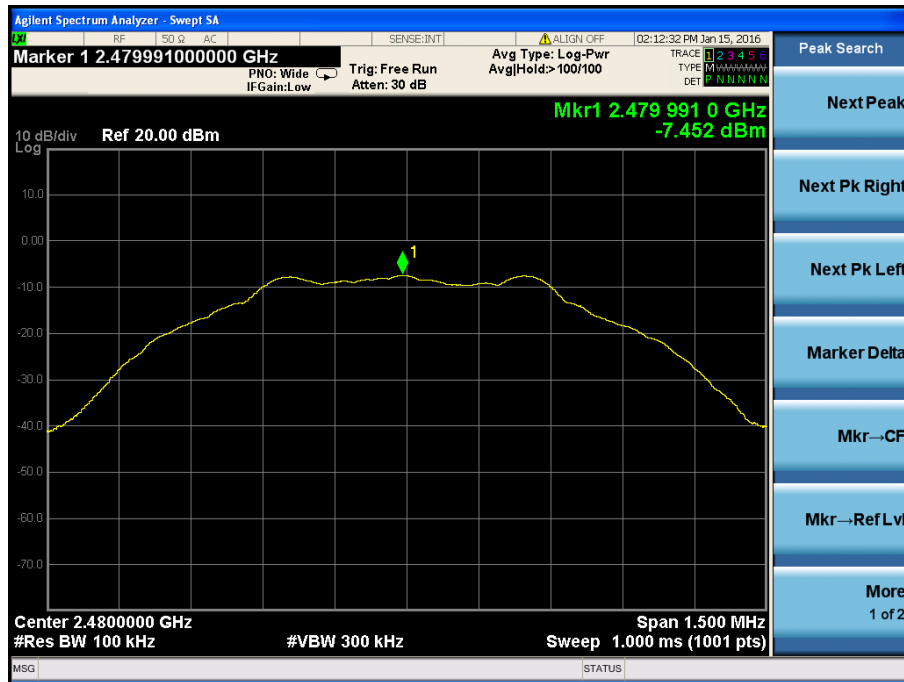
Low Channel



Middle Channel



High Channel



6. 6dB Bandwidth

6.1 Standard Applicable

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.2 Test Procedure

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 Environmental Conditions

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

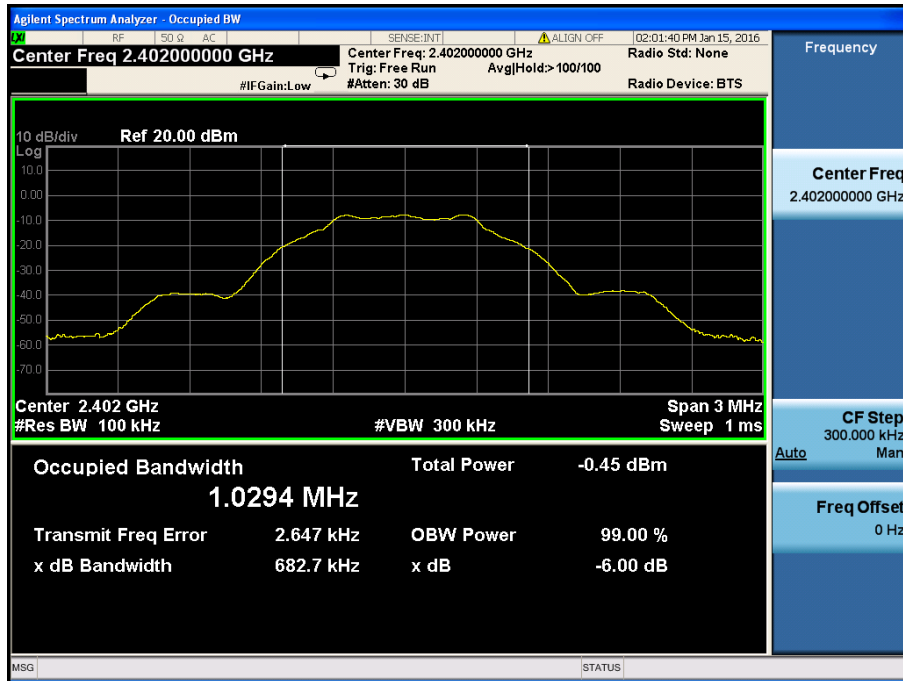
6.4 Summary of Test Results/Plots

Test Mode	Test Channel MHz	6 dB Bandwidth kHz	99% Bandwidth MHz	Limit kHz
GFSK(BLE)	2402	682.7	1.0294	≥ 500
	2442	689.4	1.0284	≥ 500
	2480	679.0	1.0267	≥ 500

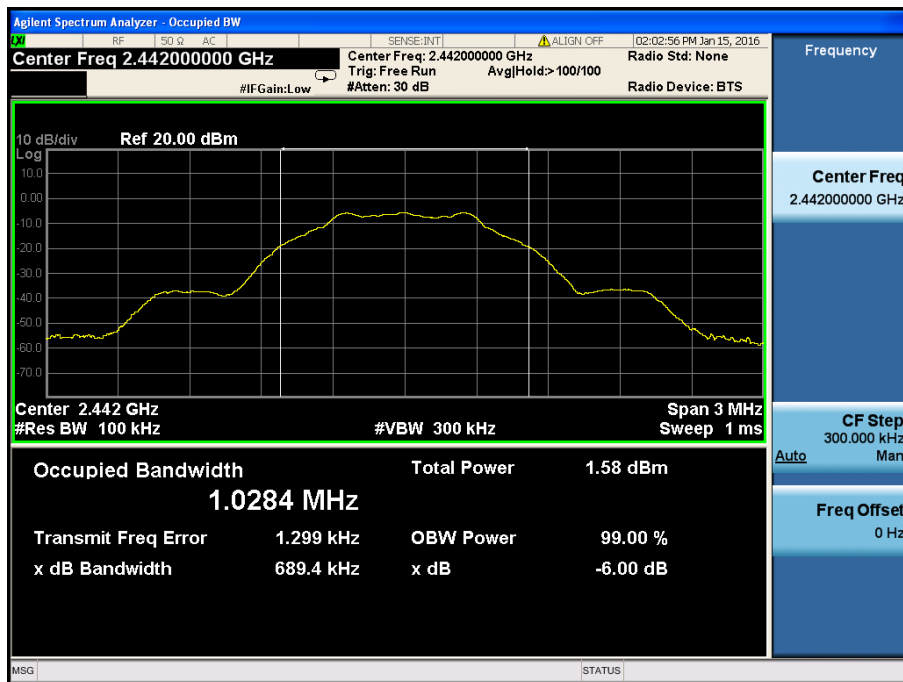
Please refer to the following test plots:

For BLE

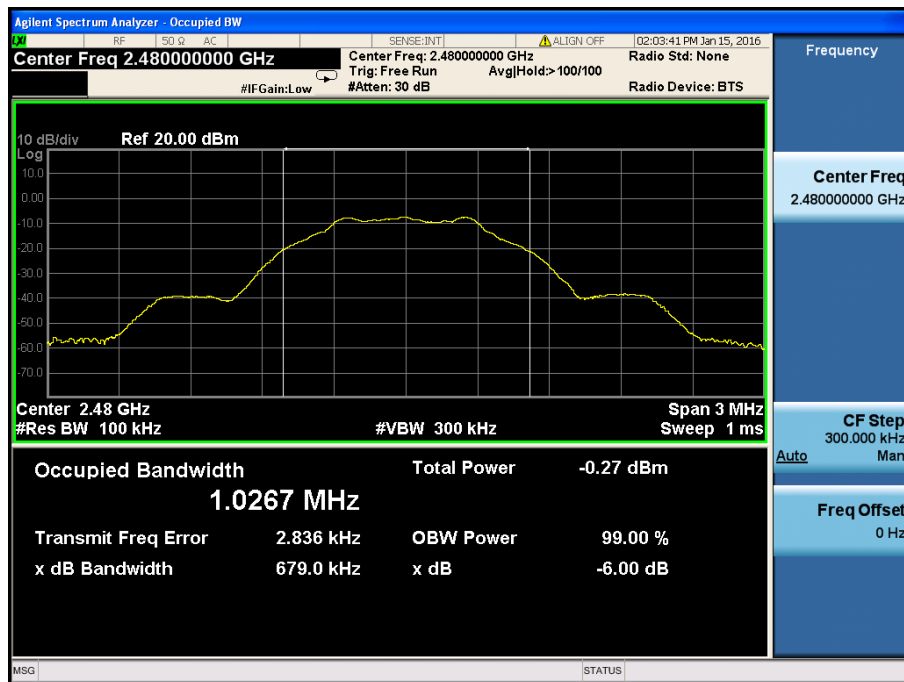
Low Channel:



Middle Channel:



High Channel:



7. RF Output Power

7.1 Standard Applicable

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

7.2 Test Procedure

According to the KDB 558074 D01 v03r04 section 9.1.1, this procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- a) Set the RBW $\geq$ DTS bandwidth.
- b) Set VBW $\geq 3 \times$ RBW.
- c) Set span $\geq 3 \times$ RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

7.3 Environmental Conditions

Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

7.4 Summary of Test Results/Plots

Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
GFSK(BLE)	2402	-6.965	0.2011	1000
	2442	-4.878	0.3252	1000
	2480	-6.676	0.2150	1000

Note: the antenna gain of 0dBi less than 6dBi maximum permission antenna gain value based on 1 watt peak output power limit.

8. Field Strength of Spurious Emissions

8.1 Standard Applicable

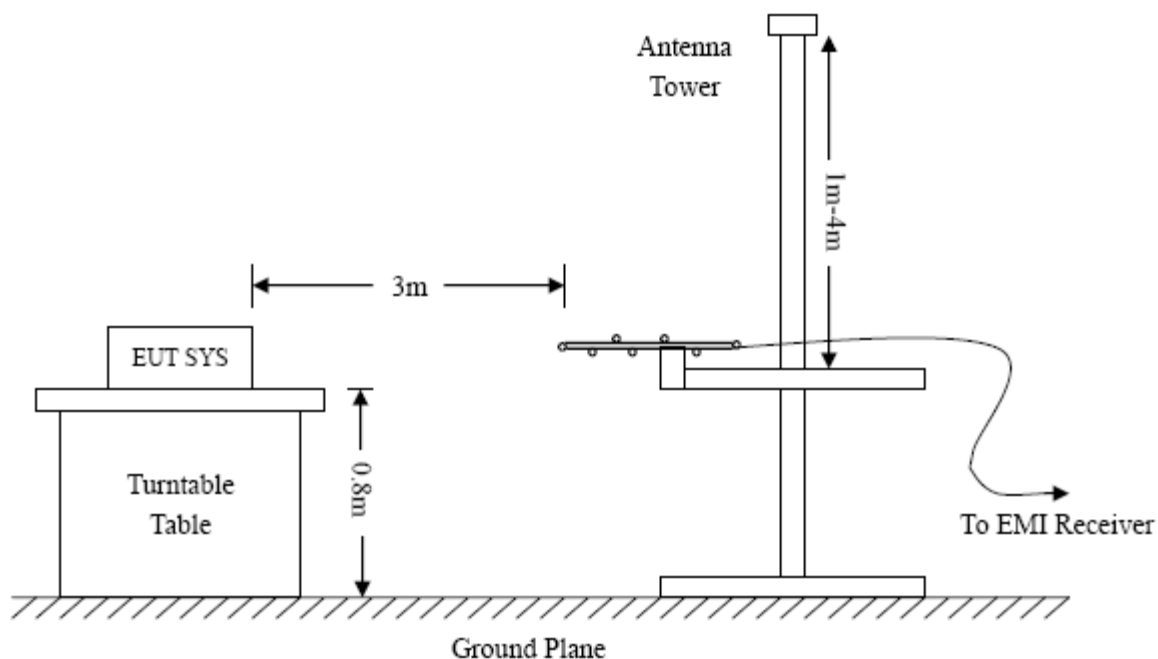
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

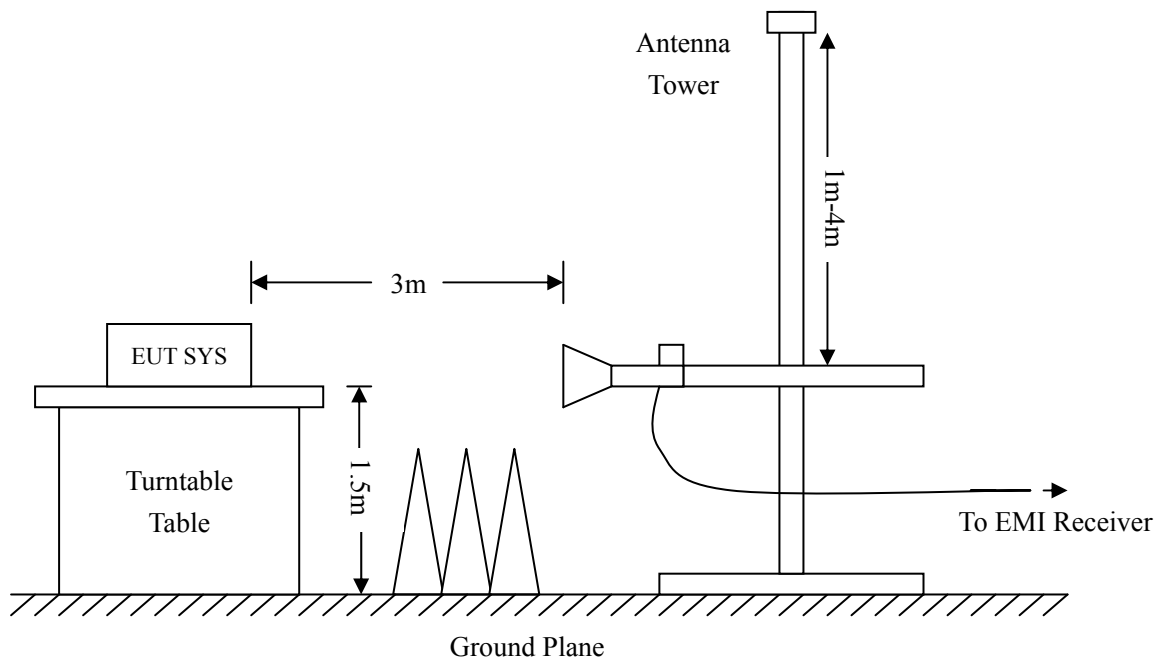
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

8.2 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.205 15.247(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

8.3 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 -6dB μ V means the emission is 6dB μ V below the maximum limit for Class B. The equation for margin calculation is as follows:

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

8.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

8.6 Summary of Test Results/Plots

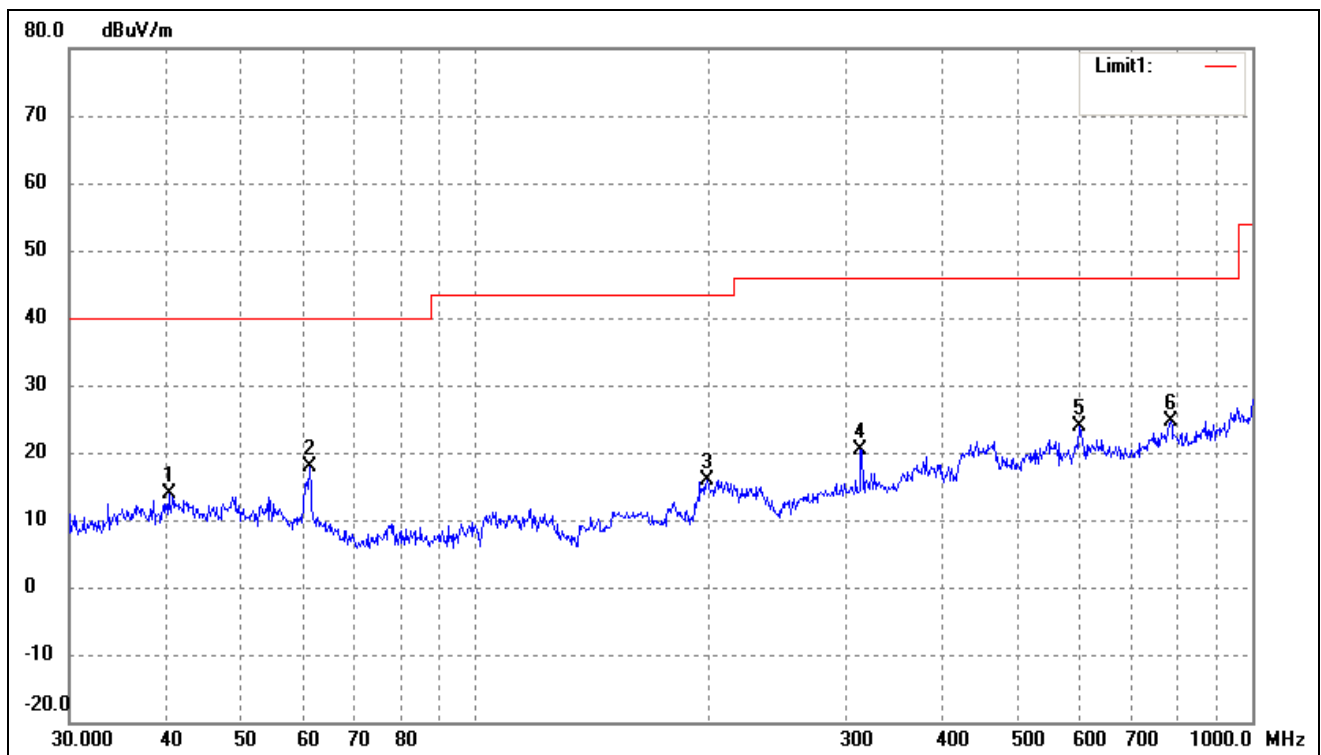
According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

*Note: this EUT was tested in 3 orthogonal positions, the **antenna vertically** is worst case position and the data was reported.*

Plot of Radiated Emissions Test Data

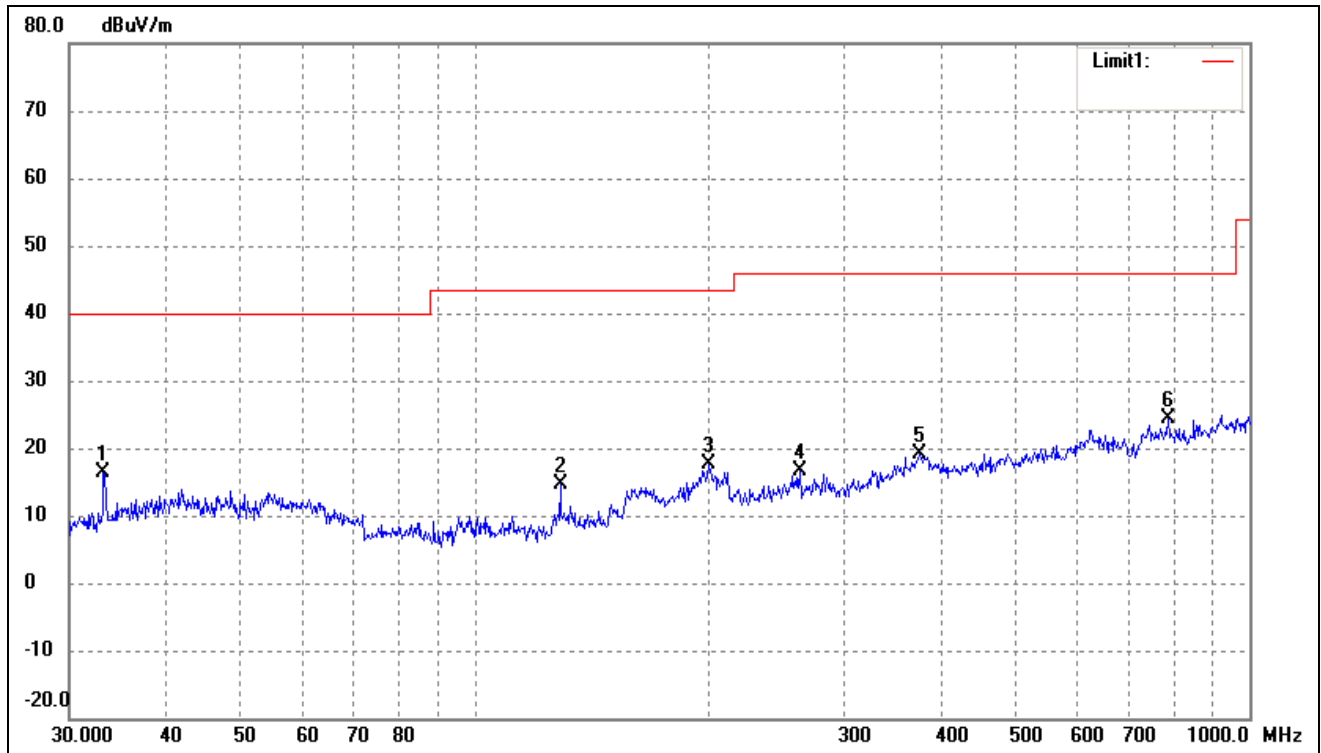
EUT: 4G Tablet
 Tested Model: Elite 7.0L
 Operating Condition: Transmitting-Low channel (2402MHz)
 Comment: DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	40.2757	21.51	-7.69	13.82	40.00	-26.18	121	100	QP
2	61.1316	27.77	-9.94	17.83	40.00	-22.17	161	100	QP
3	198.5880	24.81	-8.85	15.96	43.50	-27.54	182	100	QP
4	313.2760	25.31	-4.97	20.34	46.00	-25.66	140	100	QP
5	599.3213	23.98	-0.17	23.81	46.00	-22.19	142	100	QP
6	785.0935	21.98	2.65	24.63	46.00	-21.37	114	100	QP

Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.2112	25.90	-9.50	16.40	40.00	-23.60	113	100	QP
2	129.0146	26.67	-11.94	14.73	43.50	-28.77	10	100	QP
3	200.6881	26.19	-8.66	17.53	43.50	-25.97	120	100	QP
4	262.8955	23.34	-6.83	16.51	46.00	-29.49	10	100	QP
5	374.6226	21.49	-2.41	19.08	46.00	-26.92	11	100	QP
6	785.0935	21.76	2.65	24.41	46.00	-21.59	10	100	QP

Plot of Radiated Emissions Test Data

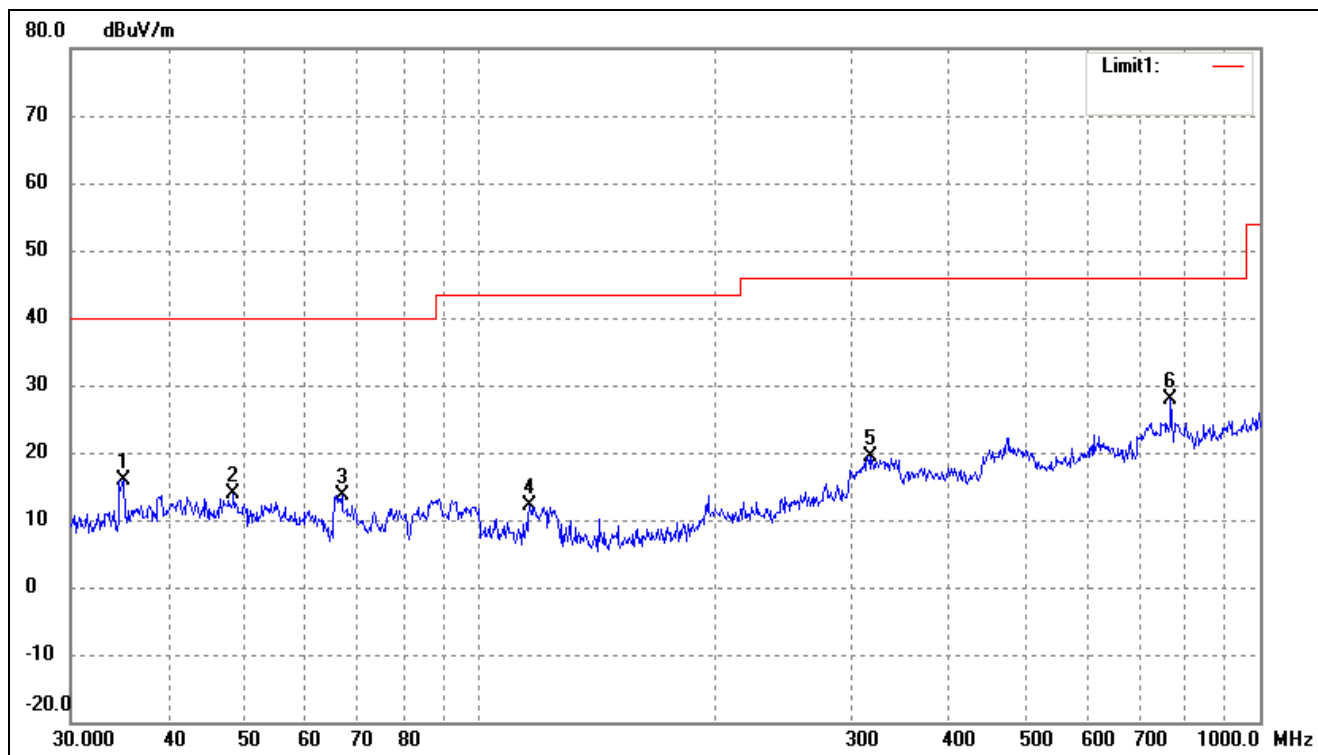
EUT: 4G Tablet

Tested Model: Elite 7.0L

Operating Condition: Transmitting-Middle channel (2442MHz)

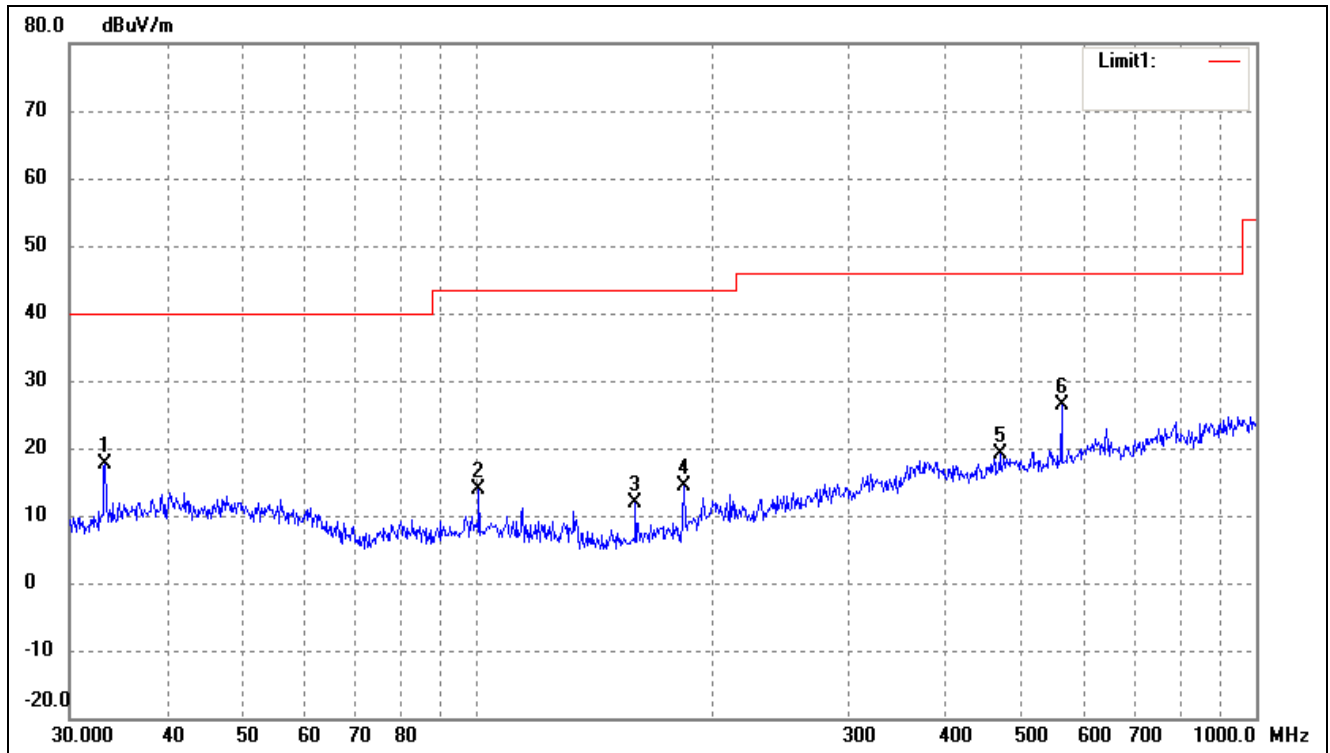
Comment: DC 3.7V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	35.1278	24.96	-9.01	15.95	40.00	-24.05	214	100	QP
2	48.5016	22.09	-8.22	13.87	40.00	-26.13	113	200	QP
3	66.7325	25.34	-11.77	13.57	40.00	-26.43	287	100	QP
4	116.1321	23.54	-11.33	12.21	43.50	-31.29	24	100	QP
5	317.7011	24.18	-4.74	19.44	46.00	-26.56	127	100	QP
6	768.7482	25.64	2.28	27.92	46.00	-18.08	28	100	QP

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.3279	27.07	-9.46	17.61	40.00	-22.39	234	100	QP
2	100.5806	24.77	-10.92	13.85	43.50	-29.65	118	100	QP
3	159.7844	24.05	-12.27	11.78	43.50	-31.72	164	100	QP
4	184.4898	25.07	-10.75	14.32	43.50	-29.18	144	100	QP
5	468.8762	21.08	-1.96	19.12	46.00	-26.88	160	100	QP
6	562.6624	27.69	-1.33	26.36	46.00	-19.64	160	100	QP

Plot of Radiated Emissions Test Data

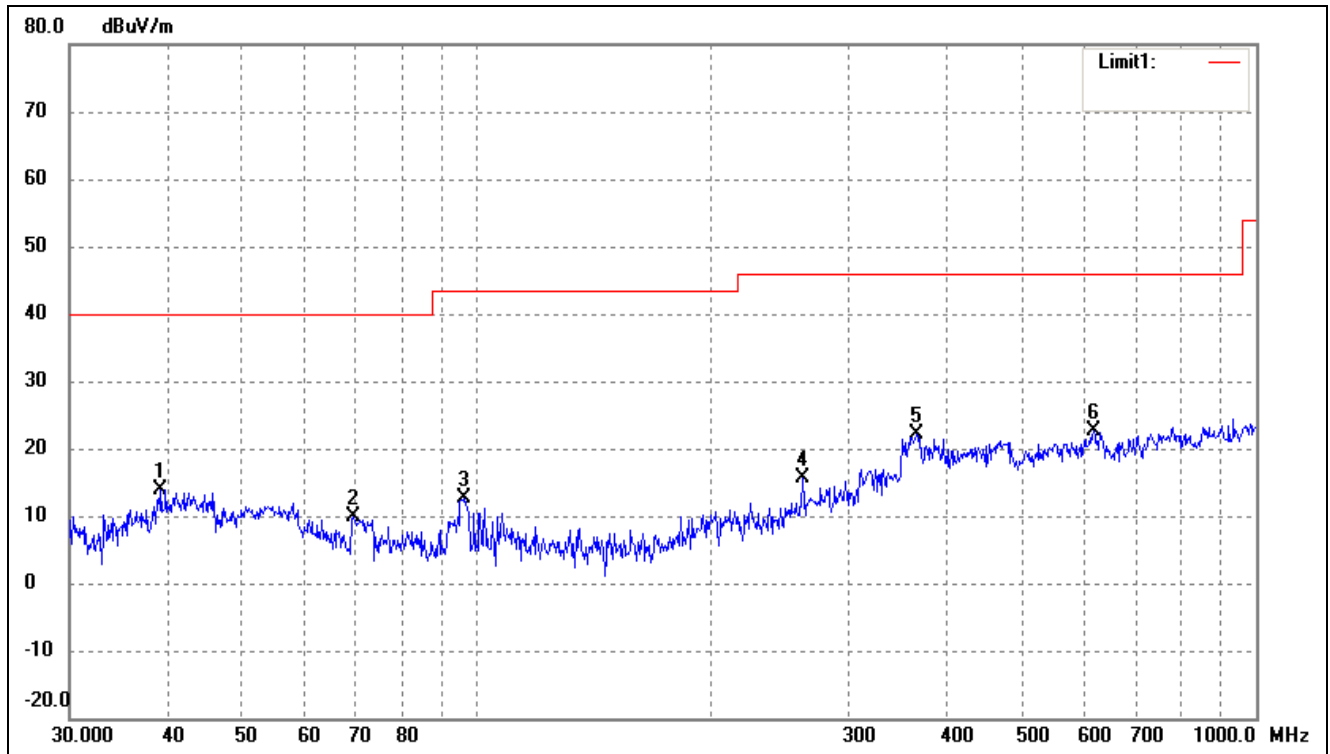
EUT: 4G Tablet

Tested Model: Elite 7.0L

Operating Condition: Transmitting-High channel (2480MHz)

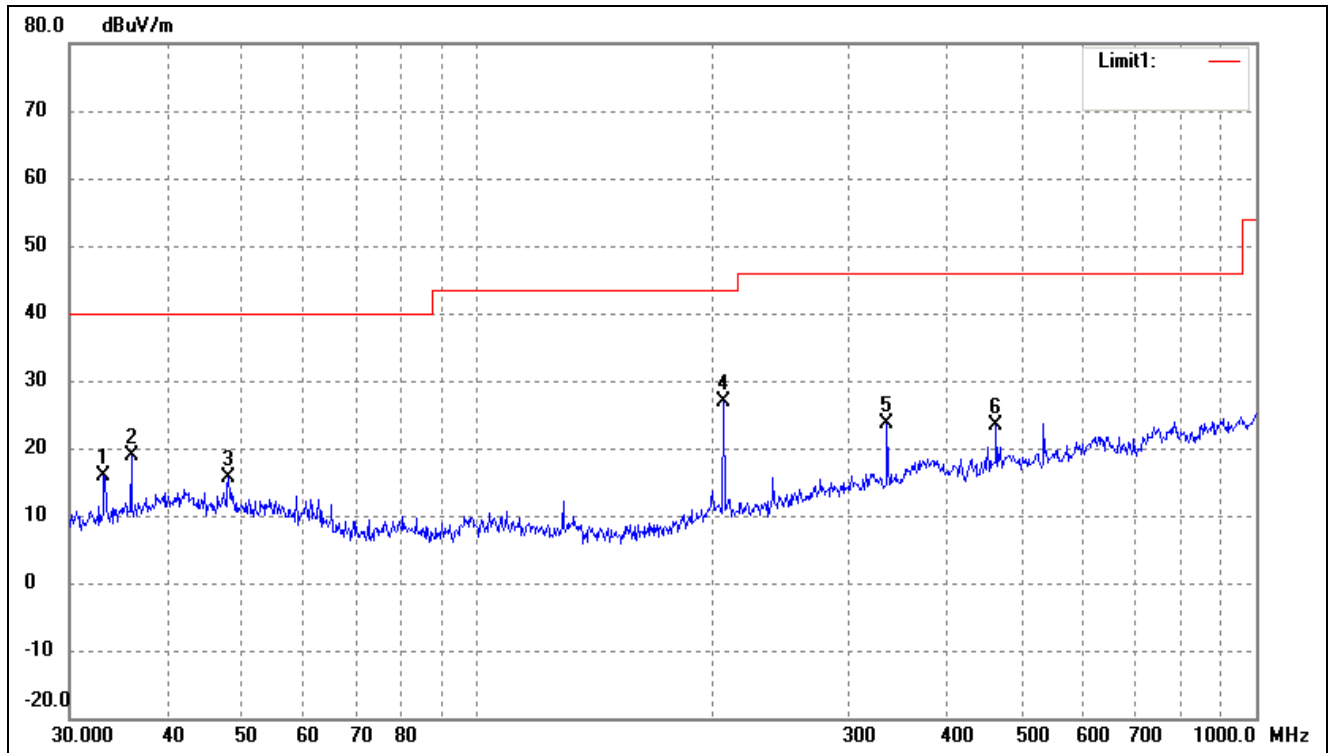
Comment: DC 3.7V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	39.2991	21.69	-7.85	13.84	40.00	-26.16	162	100	QP
2	69.3568	22.52	-12.62	9.90	40.00	-30.10	187	100	QP
3	96.0986	24.24	-11.70	12.54	43.50	-30.96	203	100	QP
4	261.9753	22.42	-6.87	15.55	46.00	-30.45	203	100	QP
5	366.8231	24.87	-2.86	22.01	46.00	-23.99	20	100	QP
6	618.5369	21.37	1.14	22.51	46.00	-23.49	125	100	QP

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	33.2112	25.37	-9.50	15.87	40.00	-24.13	112	100	QP
2	36.0007	27.53	-8.76	18.77	40.00	-21.23	150	100	QP
3	47.9940	23.87	-8.19	15.68	40.00	-24.32	155	100	QP
4	207.1226	35.60	-8.72	26.88	43.50	-16.62	155	100	QP
5	336.0352	28.66	-4.91	23.75	46.00	-22.25	150	100	QP
6	463.9696	25.70	-2.36	23.34	46.00	-22.66	112	100	QP

Spurious Emissions Above 1GHz

Transmitting: BLE mode:

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2402MHz							
4804	41.17	12.33	53.5	74	-20.5	H	PK
4804	30.83	12.33	43.16	54	-10.84	H	AV
7206	32.51	15.46	47.97	74	-26.03	H	PK
7206	22.7	15.46	38.16	54	-15.84	H	AV
4804	42.92	12.33	55.25	74	-18.75	V	PK
4804	31.25	12.33	43.58	54	-10.42	V	AV
7206	34.37	15.46	49.83	74	-24.17	V	PK
7206	23.9	15.46	39.36	54	-14.64	V	AV
Middle Channel-2442MHz							
4884	41.96	12.46	54.42	74	-19.58	H	PK
4884	31.67	12.46	44.13	54	-9.87	H	AV
7326	37.26	15.56	52.82	74	-21.18	H	PK
7326	25.68	15.56	41.24	54	-12.76	H	AV
4884	44.04	12.46	56.5	74	-17.5	V	PK
4884	31.74	12.46	44.2	54	-9.8	V	AV
7326	38.39	15.56	53.95	74	-20.05	V	PK
7326	26.83	15.56	42.39	54	-11.61	V	AV
High Channel-2480MHz							
4960	41.5	12.57	54.07	74	-19.93	H	PK
4960	31.07	12.57	43.64	54	-10.36	H	AV
7440	35.73	15.65	51.38	74	-22.62	H	PK
7440	25.98	15.65	41.63	54	-12.37	H	AV
4960	42.76	12.57	55.33	74	-18.67	V	PK
4960	31.12	12.57	43.69	54	-10.31	V	AV
7440	38.58	15.65	54.23	74	-19.77	V	PK
7440	26.13	15.65	41.78	54	-12.22	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

9. Out of Band Emissions

9.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Test Procedure

According to the KDB 558074 D01 v03r04, the band-edge radiated test method as follows:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

According to the KDB 558074 D01 v03r04, the conducted spurious emissions test method as follows:

1. Set start frequency to DTS channel edge frequency.
2. Set stop frequency so as to encompass the spectrum to be examined.
3. Set RBW = 100 kHz.
4. Set VBW $\geq$ 300 kHz.
5. Detector = peak.
6. Trace Mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

9.3 Environmental Conditions

Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

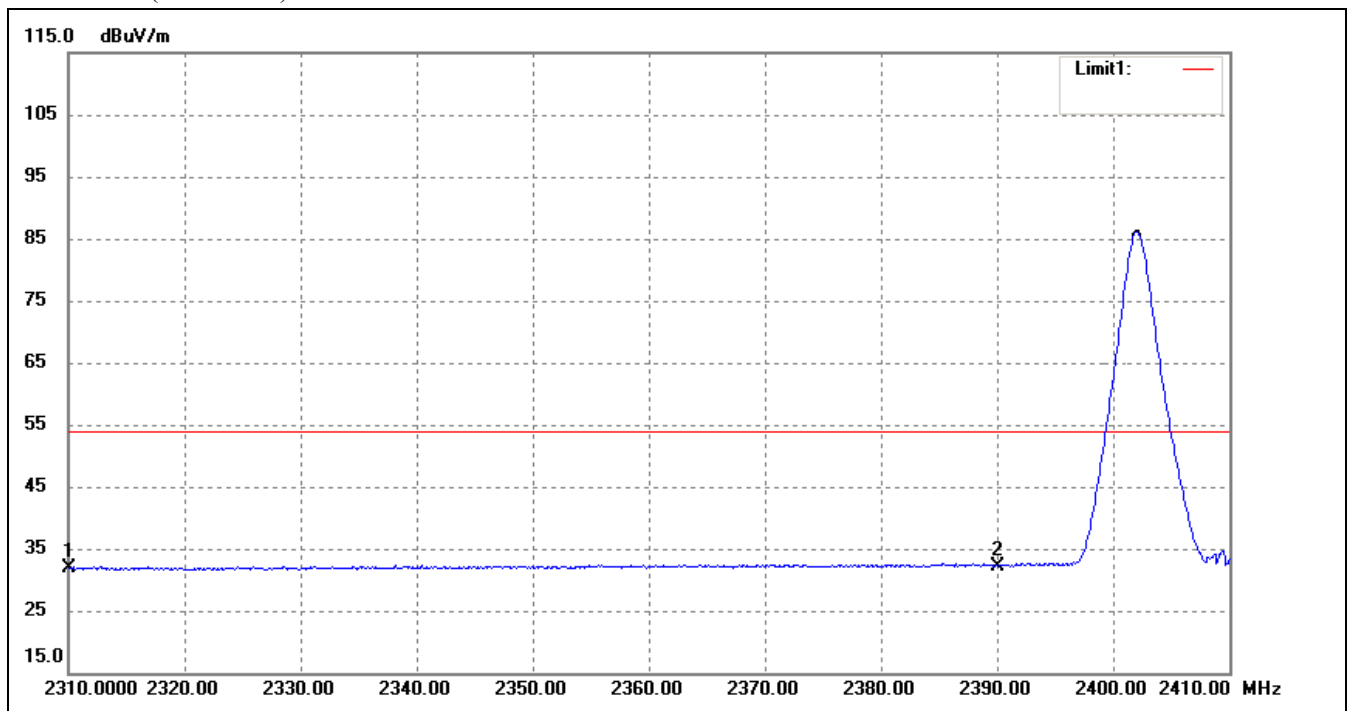
9.4 Summary of Test Results/Plots

Please refer to the test plots as below.

Bandedge (Radiated)

Lowest Bandedge-BLE

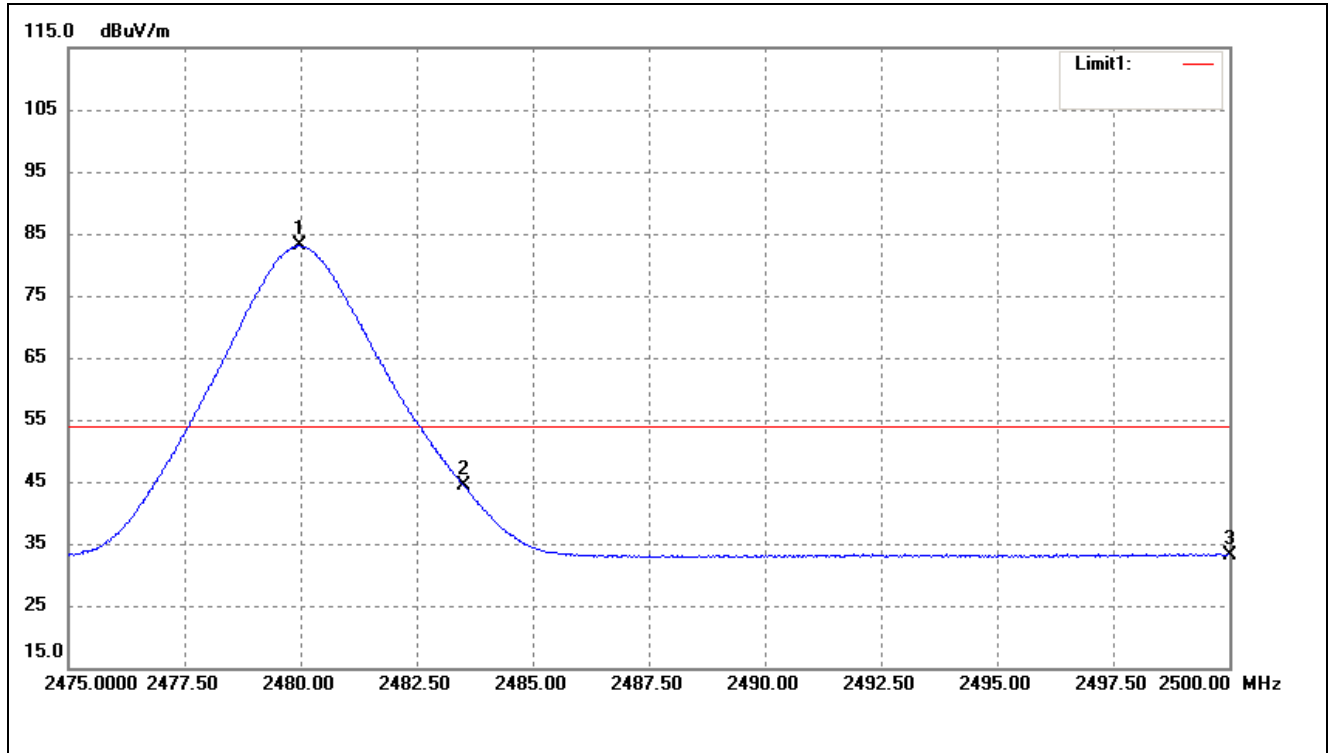
Horizontal (Worst case)



No.	Frequency (MHz)	Reading (dBuV)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	36.91	-4.98	31.93	54.00	-22.07	Average Detector
	2310.000	47.85	-4.98	42.87	74.00	-31.13	Peak Detector
2	2390.000	36.51	-4.26	32.25	54.00	-21.75	Average Detector
	2390.000	47.00	-4.26	42.74	74.00	-31.26	Peak Detector

Highest Bandedge-BLE

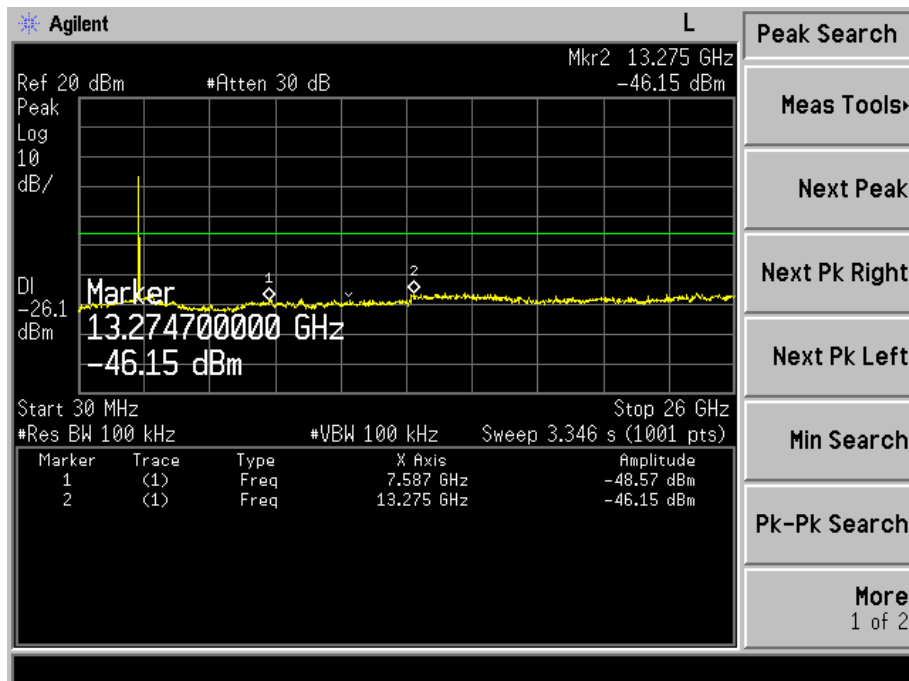
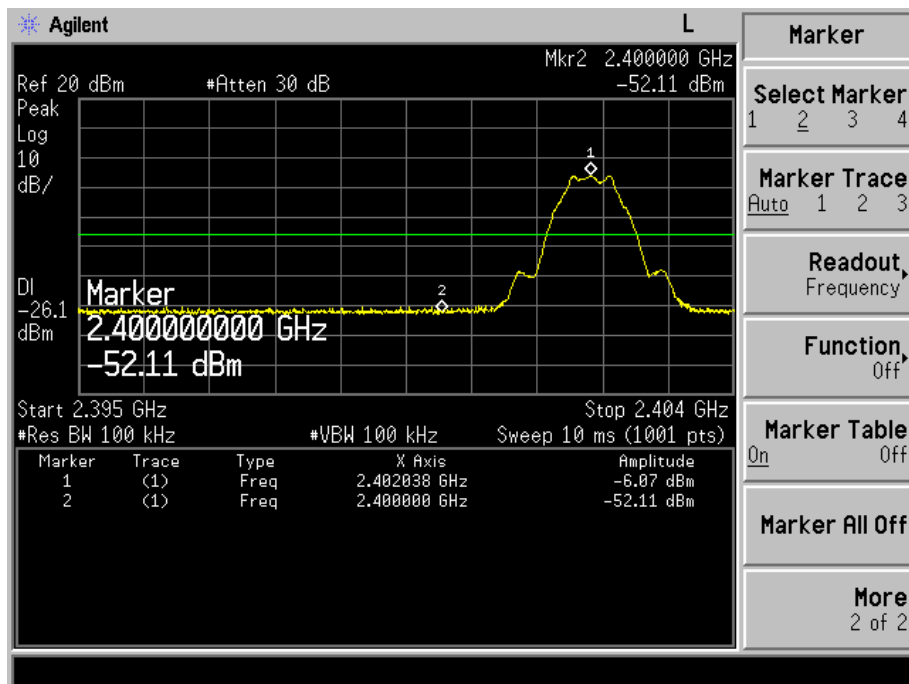
Horizontal (Worst case)



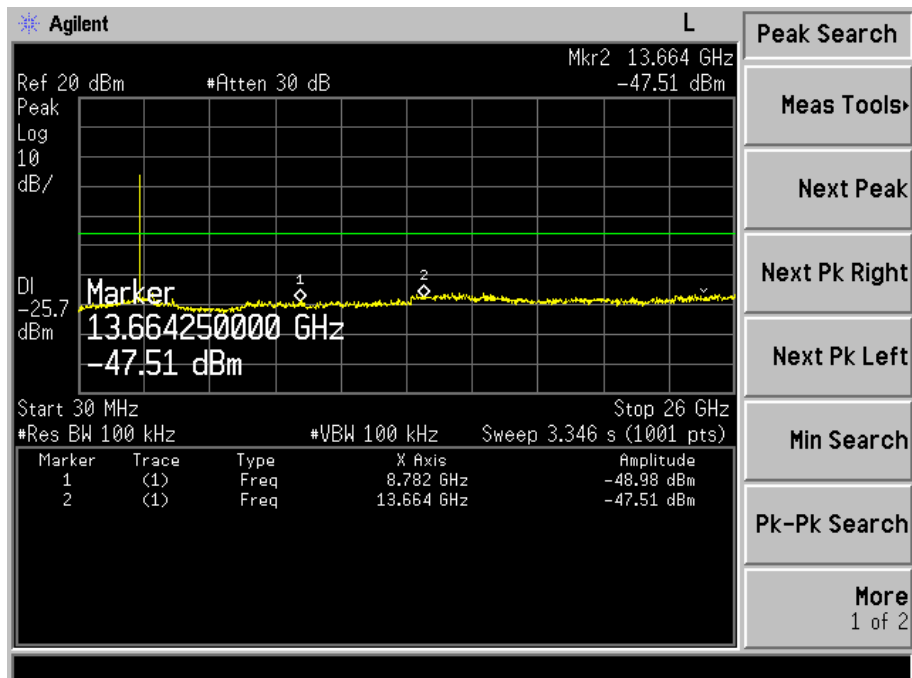
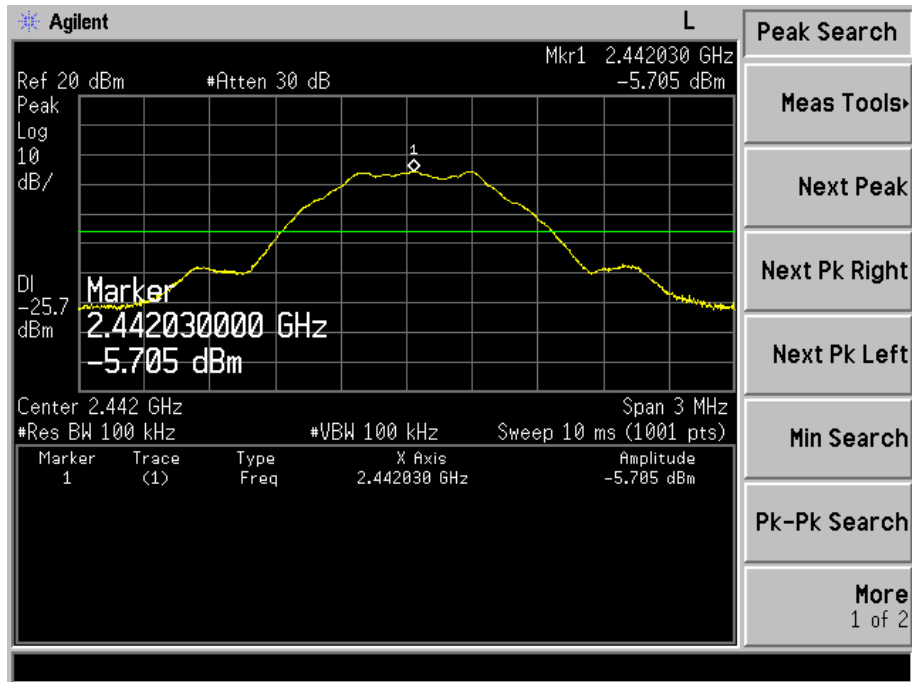
No.	Frequency (MHz)	Reading (dBuV)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2479.975	86.59	-3.55	83.04	/	/	Average Detector
	2479.700	91.20	-3.56	87.64	/	/	Peak Detector
2	2483.500	47.97	-3.53	44.44	54.00	-9.56	Average Detector
	2483.500	56.15	-3.01	50.64	74.00	-23.36	Peak Detector
3	2500.000	36.60	-3.39	33.21	54.00	-20.79	Average Detector
	2500.000	48.40	-3.39	45.01	74.00	-28.99	Peak Detector

Bandedge (Conducted)

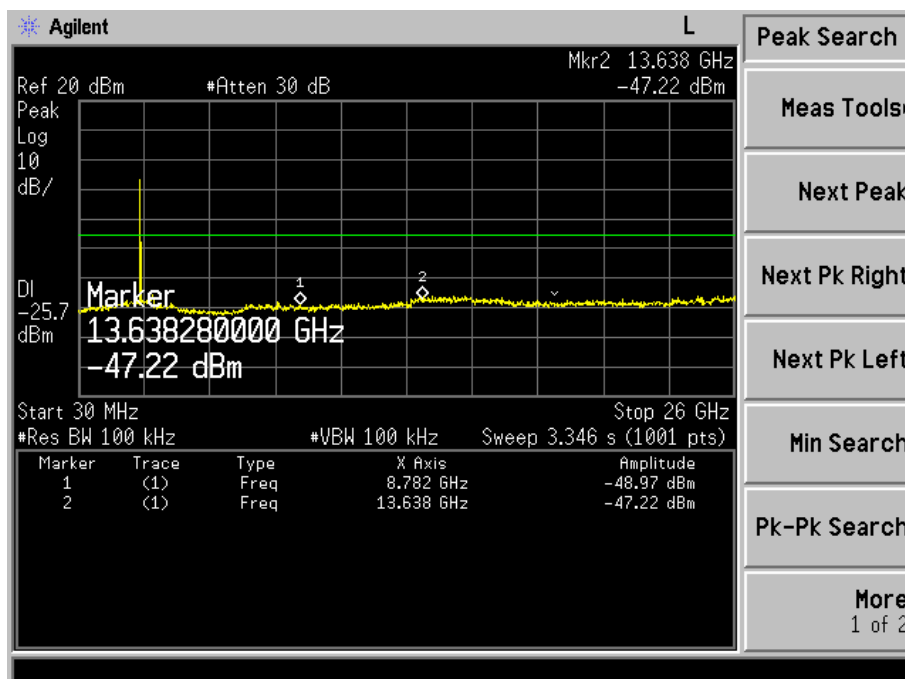
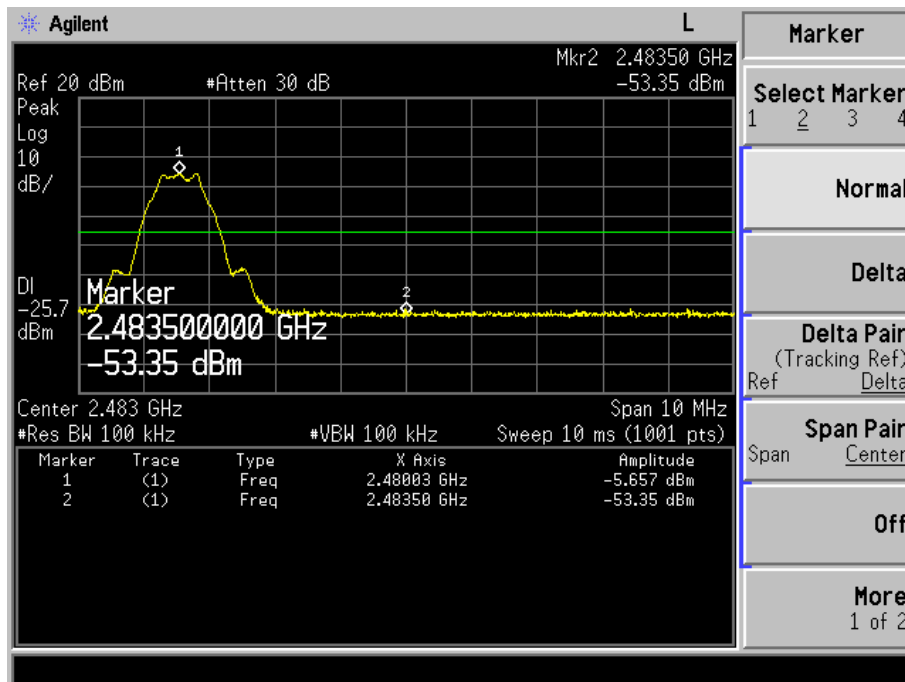
Lowest



Middle



Highest



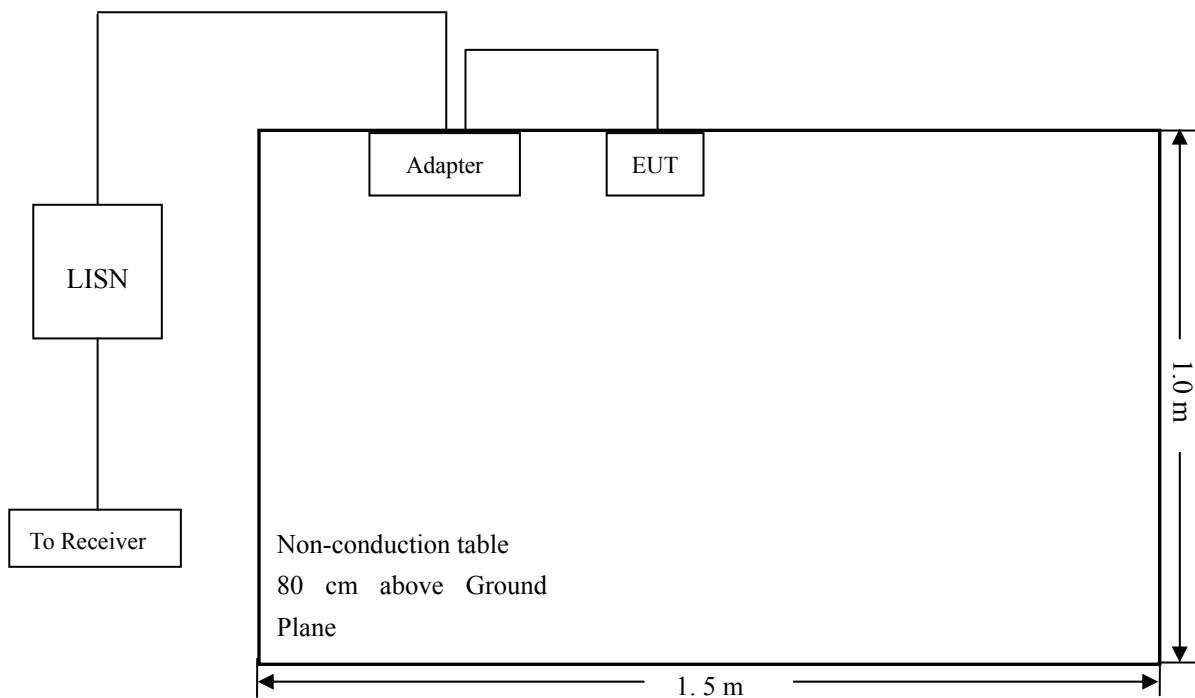
10. Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 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.

10.2 Basic Test Setup Block Diagram



10.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

10.4 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

10.5 Summary of Test Results/Plots

According to the data in section 10.7, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

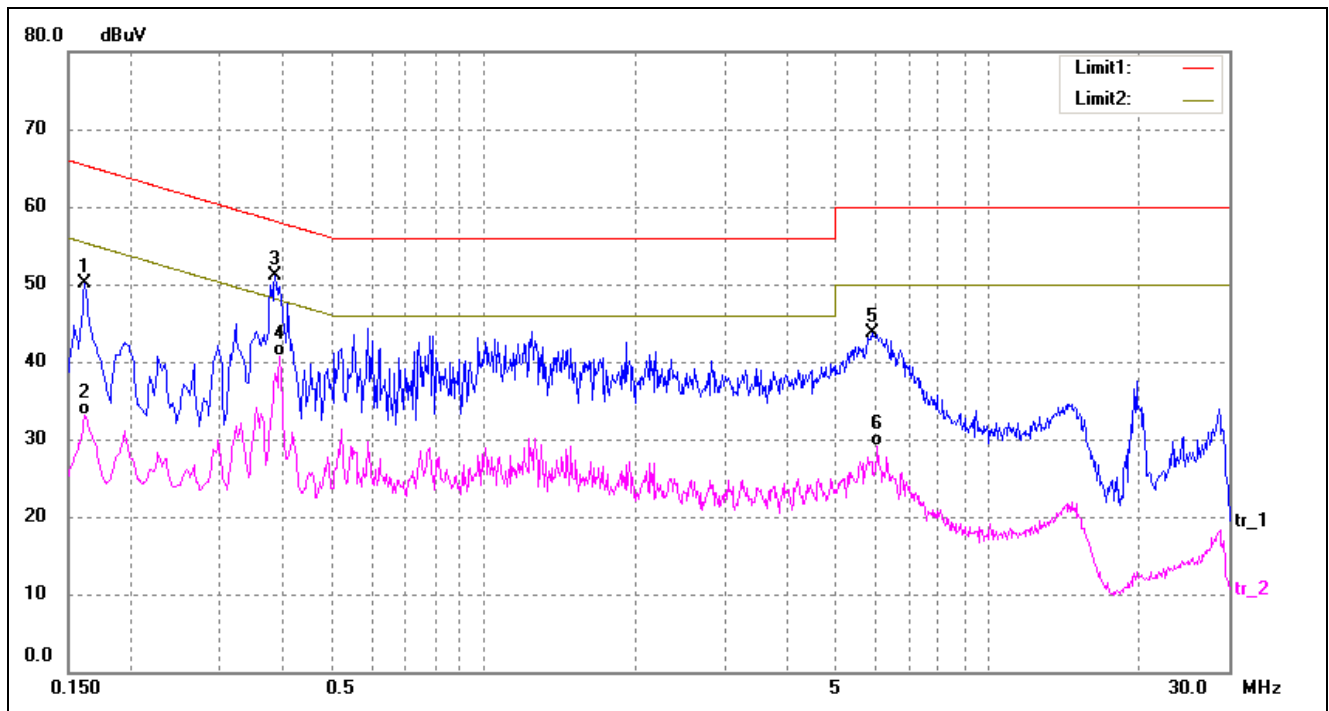
-5.32 dB at 0.4180 MHz in the **Line, Peak** detector, 0.15-30MHz

10.6 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

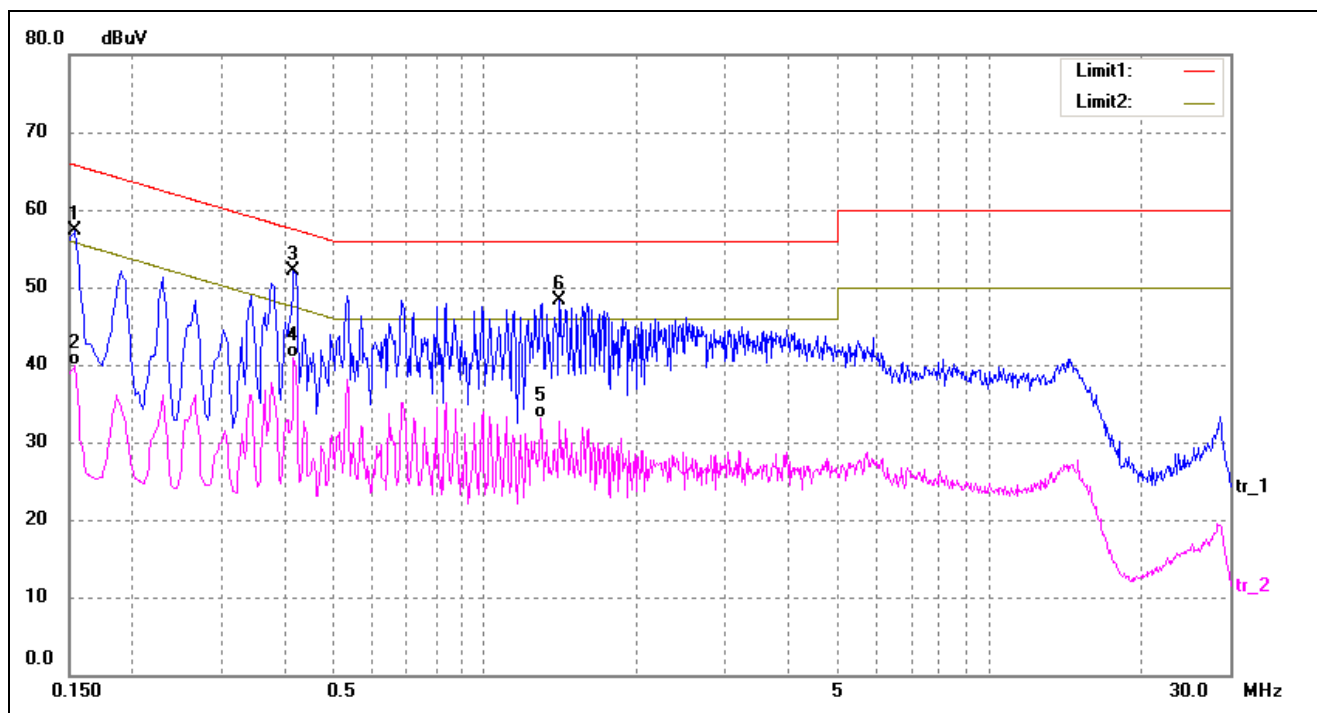
EUT: 4G Tablet
 Tested Model: Elite 7.0L
 Operating Condition: (BT)Transmitting
 Comment: AC 120V/60Hz; Adapter DC 5V

 Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1620	37.56	12.50	50.06	65.36	-15.30	peak
2*	0.1620	20.53	12.50	33.03	55.36	-22.33	AVG
3	0.3860	38.57	12.50	51.07	58.15	-7.08	peak
4	0.3940	28.29	12.50	40.79	47.98	-7.19	AVG
5	5.8940	30.98	12.64	43.62	60.00	-16.38	peak
6	6.0500	16.51	12.58	29.09	50.00	-20.91	AVG

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1540	44.90	12.50	57.40	65.78	-8.38	peak
2	0.1540	27.49	12.50	39.99	55.78	-15.79	AVG
3	0.4180	39.67	12.50	52.17	57.49	-5.32	peak
4	0.4180	28.36	12.50	40.86	47.49	-6.63	AVG
5	1.2940	20.13	13.00	33.13	46.00	-12.87	AVG
6	1.4100	35.25	13.00	48.25	56.00	-7.75	peak

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