

FCC ID TEST REPORT

Prepared for:	Shenzhen Langmei Technology Co.,ltd		
Address:	Block B2, Langmei Technology park, 2nd Industry Park Fenghuang 3th Industry Zone, Fuyong Town, Bao'an District, Shenzhen, China		
Equipment Under Test(E.U.T.):	Tablet PC		
Model	7CI		
FCC ID	2ACBS-7CI		
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247:2013 KDB 558074 D01 DTS Meas Guidance v03r01		
Test Date:	26 August 2014 to 3 September 2014		
Issued Date:	3 September 2014		
Report Number:	POCE14082637KRF		
Test Engineer:	Bin Jing		
Reviewed By			
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The results detailed in this test report relate only to the specific sample(s) tested. It is the Application's responsibility to ensure that all production units are manufactured with equivalent EMC characteristics. This report is not to be reproduced except in full, without written approval from Shenzhen POCE Technology Co., Ltd..

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1.0 General Information

1.1 Client Details

Applicant:	Shenzhen Langmei Technology Co.,ltd	
Address:	Block B2, Langmei Technology park, 2nd Industry Park Fenghuang 3th Industry	
	Zone, Fuyong Town, Bao'an District, Shenzhen, China	
Manufacturer:	Shenzhen Langmei Technology Co.,ltd	
Address:	Block B2, Langmei Technology park, 2nd Industry Park Fenghuang 3th Industry	
	Zone, Fuyong Town, Bao'an District, Shenzhen, China	

1.2 Test Lab Details

Name:	Shenzhen POCE Technology Co.,Ltd.	
Address:	Room 502, Bldg. 1, Xinghua Garden, Baoan Road Xixiang, Baoan District, Shenzhen,	
	China	
Telephone:	86-755-29113252	
Fax:	86-755-29113135	

Site Listed with Federal Communication Commission

Registration Number: 222278

For 3m chamber

1.3 Description of E.U.T.

5 Description of E.C.1.			
Product:	Tablet PC		
Model No.:	7CI		
Additional Model No.	N.A.		
Brand Name:	N.A.		
Operation Frequency:	IEEE 802.11b: 2412-2462 MHz		
	IEEE 802.11g: 2412-2462 MHz		
	IEEE 802.11n: 2412-2462 MHz(HT 20), 2422-2452 MHz(HT 40)		
Channel number:	IEEE 802.11b/g: 11, IEEE 802.11n: 11(HT 20), 7(HT 40)		
Channel spacing:	5 MHz		
Modulation Type:	IEEE 802.11b: DSSS		
	IEEE 802.11g: OFDM		
	IEEE 802.11n: OFDM		
Antenna Designation:	An internal antenna and the maximum antenna gain is 0dBi.		
Power supply:	DC 3.7V via Battery or,		
	DC 5V from ADAPTER,		
	ADAPTER INFORMATION,		
	MODEL: BSF-008		
	INPUT: 100-240VAC, 50/60Hz, OUTPUT: DC 5V, 2A		

Shenzhen POCE Technology Co., Ltd.

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Tables of carriers frequency

Frequency Band	Channel number	Frequency	Channel number	Frequency
2400-2483.5 MHz	1	2412 MHz	7	2442 MHz
	2	2417 MHz	8	2447 MHz
	3	2422 MHz	9	2452 MHz
	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz		

Note: For 20 MHz bandwidth system use Channel 1 to Channel 11; For 40 MHz bandwidth system use Channel 1 to Channel 9.

Test Information

The test software was used to control E.U.T. work in Continuous Tx mode (>98% duty cycle), and select test channel, wireless mode and data rate.

Test mode, channel and data rate information					
Mode Channel		Frequency (MHz)	Date Rate (Mbps)		
IEEE 802.11b	Low :CH1	2412	1		
	Middle: CH6	2437	1		
	High: CH11	2462	1		
IEEE 802.11g	Low :CH1	2412	6		
	Middle: CH6	2437	6		
	High: CH11	2462	6		
IEEE 802.11n	Low :CH1	2412	MSC0		
(HT 20)	Middle: CH6	2437	MSC0		
	High: CH11	2462	MSC0		
IEEE 802.11n Low :CH3		2422	MSC0		
(HT 40)	Middle: CH6	2437	MSC0		
	High: CH9	2452	MSC0		

Remark: According to exploratory test, E.U.T. will have maximum output power in those data rate, so those data rate were used for all tests.

1.4 AE used during the test

Equipment type	Model	Manufacturer	FCC Approval
N.A.			
N.A.			
N.A.			

2.0 Test Summary

Section in CFR 47	Test Item	Result
15.203,15.247(c)	Antenna Requirement	Complies
15.207(a)	AC Power Line Conducted Emission	Complies
15.247(b)(3)	Maximum Peak Output Power	Complies
15.247 (a)(2)	6 dB bandwidth	Complies
15.247(e)	Maximum Power Density	Complies
15.247 (d), 15.205 (a), 15.209 (a)	Band age Measurement	Complies
15.209	Radiated Emission	Complies

3.0 E.U.T. Modification

No modification by Shenzhen POCE Technology Co., Ltd.

4.0 Measurement Uncertainty

(95% confidence levels, k=2)

No.	Item	MU
1.	Radio Frequency	$\pm 1 \times 10^{-9}$
2.	Temperature	±0.1℃
3.	Humidity	±1.0%
4.	RF power, conducted	±0.34dB
5.	Spurious emissions, conducted	±2.72dB
6.	All emissions, radiated	±3.84dB

5.0 Antenna Requirement

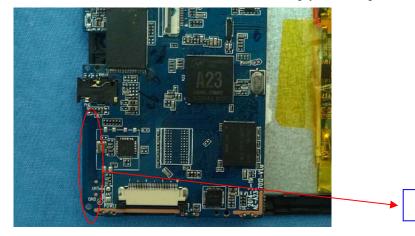
5.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

5.2 Antenna Specification

According to the manufacturer declared, the E.U.T. has an integral antenna; and no consideration of replacement. Therefore the E.U.T. is considered sufficient to comply with the provision.



Antenna

6.0 Power Line Conducted Emission Test

6.1 Test Equipment

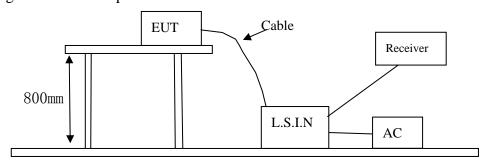
Instrument Type	Model	Serial No.	Manufacturer	Date of Cal.	Due Date
EMI Test Receiver	ESCS30	100139	R&S	Nov. 20, 2013	Nov. 19, 2014
LISN	LS16C	16010222119	AFJ	Nov. 20, 2013	Nov. 19, 2014

6.2 Test Method and test Procedure

The E.U.T. was tested according to ANSI C63.10-2009. The Frequency spectrum From 0.15MHz to 30MHz was investigated.

Test Voltage: 120V~, 60Hz

6.3 Block diagram of Test setup



6.4 E.U.T. Operating Condition

Operating condition is according to ANSI C63.10 -2009

- 1) Setup the E.U.T. and simulators as shown on the following
- 2) Enable AF signal and confirm E.U.T. active to normal condition

6.5 Power line conducted Emission Limit according to Paragraph 15.207

Eraguan ay (MHz)	Class A Lir	nits (dB \mu V)	Class B Limits (dB µ V)		
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0	
5.00 ~ 30.00	73.0	60.0	60.0	50.0	

Notes: 1) *Decreasing linearly with logarithm of frequency.

2) The tighter limit shall apply at the transition frequencies

6.6 Test specification

Environmental conditions: Temperature: 25° C Humidity: 50% Atmospheric pressure: 103kPa

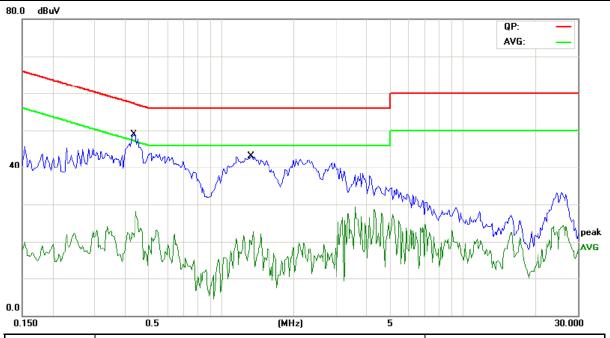
6.7 Test Result

Pass.

Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

E.U.T. Description:	Tablet PC
Operation Mode:	Tx mode
Tested By:	Bill
Test Date:	29 August 2014

Start Frequency	Stop Frequency	Step	IF BW	Detector	Final M-Time
0.15MHz	30MHz	4.5KHz	10KHz	QP+AV	1s

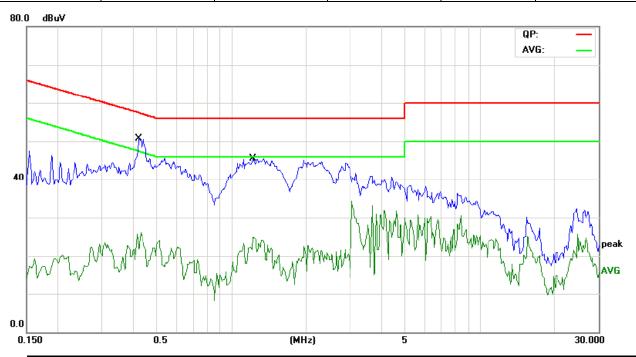


Fragueney	Reading(dB \(\mu \)				Limit	
Frequency (MHz)	Line	Line		Neutral		ι V)
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.4352	43.74	24.32			57.15	47.15
1.3297	36.72	16.39			56.00	46.00

Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

E.U.T. Description:	Tablet PC
Operation Mode:	Tx mode
Tested By:	Bill
Test Date:	29 August 2014

Start Frequency	Stop Frequency	Step	IF BW	Detector	Final M-Time
0.15MHz	30MHz	4.5KHz	10KHz	QP+AV	1s



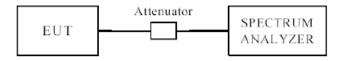
Eraguanav		Reading	Limit			
Frequency (MHz)	Live		Neutral		(dB µ V)	
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.4234			42.04	22.50	57.38	47.38
1.2203			38.80	19.86	56.00	46.00

7.0 Maximum Peak Output Power

7.1 Test Equipment

Instrument Type	Model	Serial No.	Manufacturer	Date of Cal.	Due Date
Spectrum Analyzer	FSEM	848597/001	ROHDE&SCHWARZ	Nov. 20, 2013	Nov. 19, 2014

7.2 Test configuration



7.3 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

7.4 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r01, the transmitter output was connected to the spectrum analyzer through an attenuator. The spectrum analyzer is setting as follows: RBW=1 MHz,

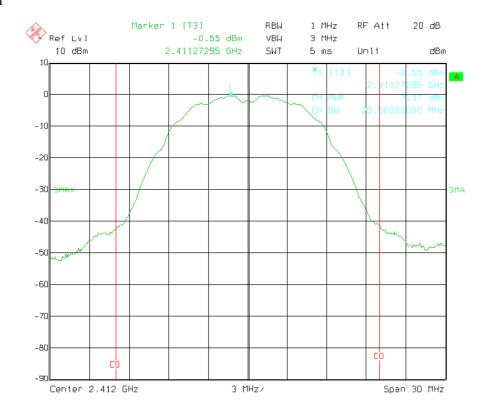
VBW=3 MHz, Span=encompass the DTS bandwidth, Detector=peak, Sweep time=auto couple, Trace mode= max hold. Allow trace to fully stabilize. Use the spectrum analyzer's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges.

7.5 Test Result

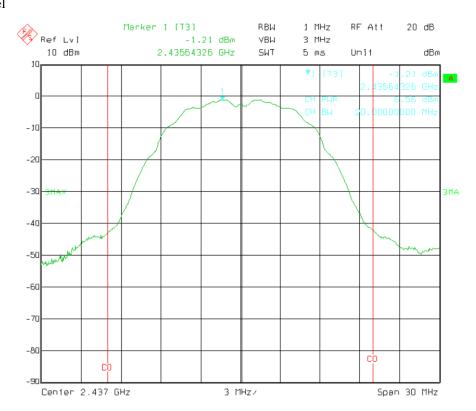
WiFi mode	Test channel	Peak output power (dBm)	Limit (dBm)	Result
	Lowest	7.37	30	Pass
IEEE 802.11b	Middle	6.56	30	Pass
	Highest	6.20	30	Pass
	Lowest	8.58	30	Pass
IEEE 802.11g	Middle	7.72	30	Pass
	Highest	7.22	30	Pass
IEEE 900 11m	Lowest	8.75	30	Pass
IEEE 802.11n (HT20)	Middle	8.05	30	Pass
(H120)	Highest	7.44	30	Pass
IEEE 802.11n	Lowest	5.75	30	Pass
(HT40)	Middle	5.33	30	Pass
(1140)	Highest	5.05	30	Pass

IEEE 802.11b mode

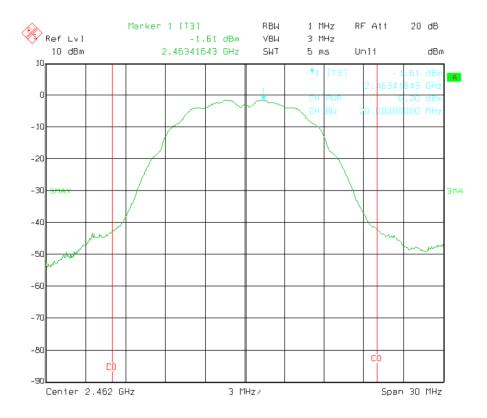
Low Channel



Middle channel

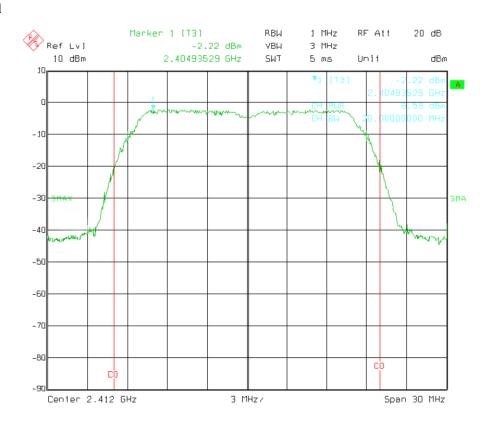


High channel

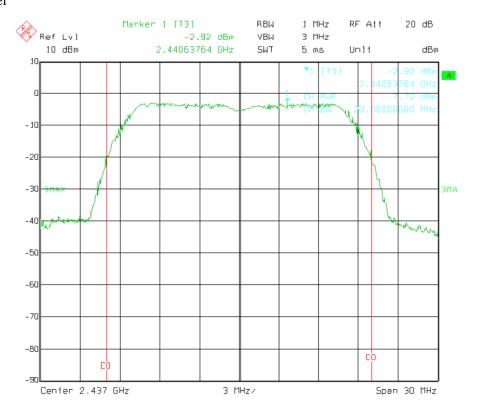


IEEE 802.11g mode

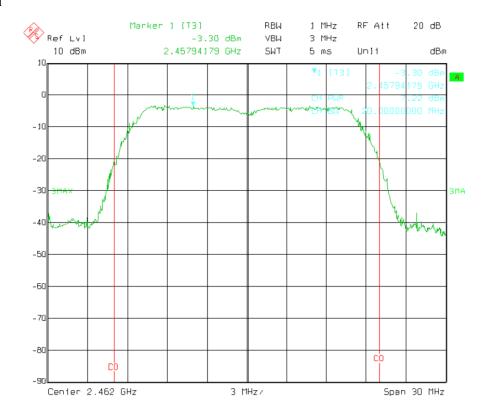
Low Channel



Middle channel

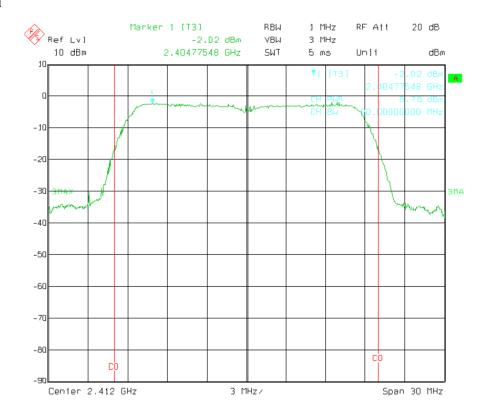


High channel

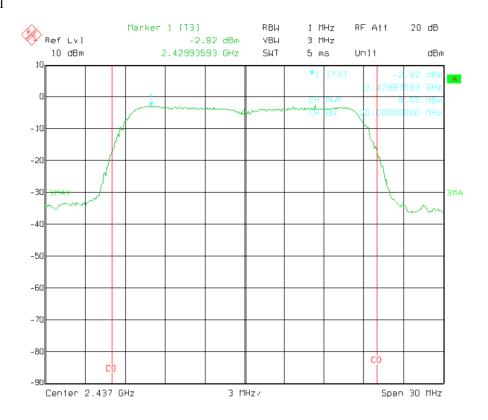


IEEE 802.11n (HT20)

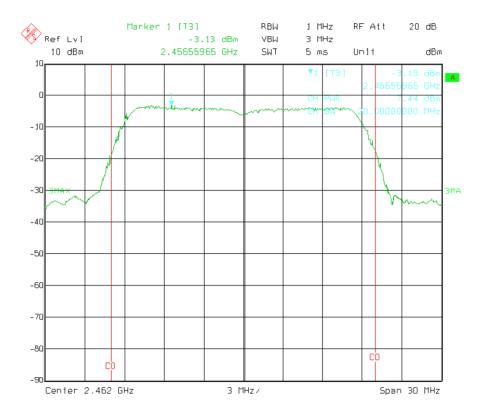
Low Channel



Middle channel

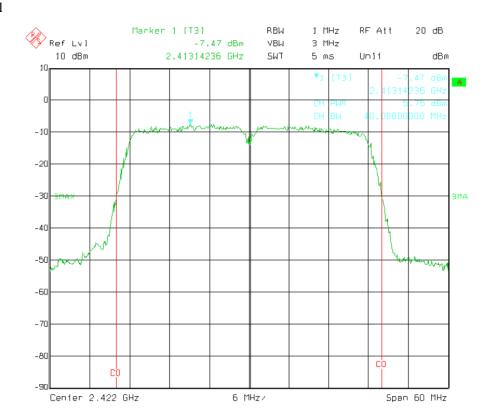


High channel

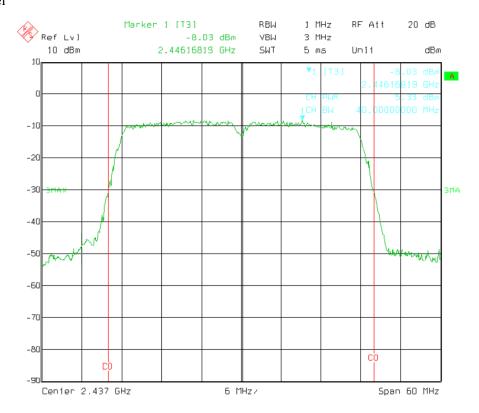


IEEE 802.11n (HT40)

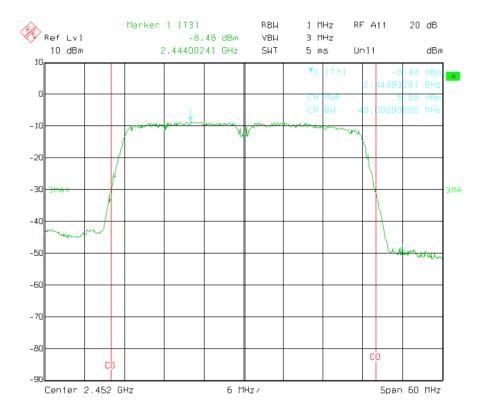
Low Channel



Middle channel



High channel

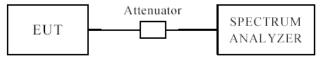


8.0 6dB Bandwidth Measurement

8.1 Test Equipment

Instrument Type	Model	Serial No.	Manufacturer	Date of Cal.	Due Date
Spectrum Analyzer	FSEM	848597/001	ROHDE&SCHWARZ	Nov. 20, 2013	Nov. 19, 2014

8.2 Test configuration



8.3 Limits of 6dB Bandwidth Measurement

The minimum of 6 dB Bandwidth is >500 kHz

8.4 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r01, the transmitter output was connected to the spectrum analyzer through an attenuator. The spectrum analyzer is setting as follows: RBW=100 kHz,

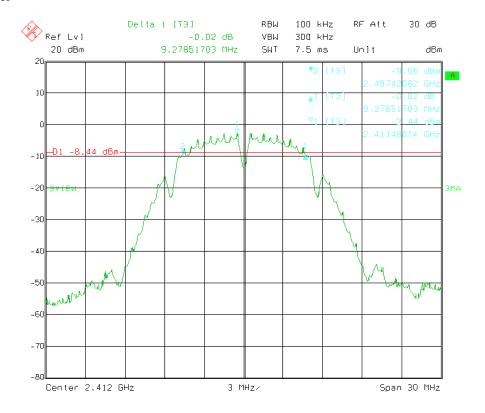
VBW=300 kHz, Detector=Peak, Trace mode=max hold, Sweep=auto couple. The 6dB bandwidth is defined as the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

8.5 Test Result

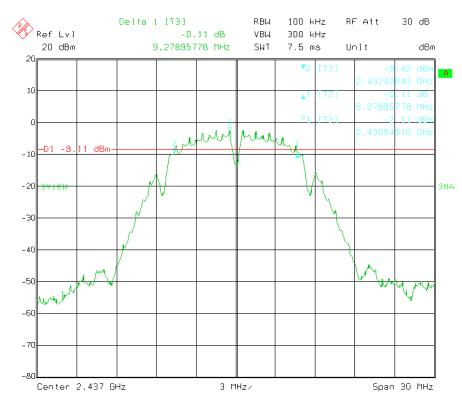
WiFi mode	Test channel	6 dB occupied bandwidth (MHz)	Limit (kHz)	Result
	Lowest	9.28	500	Pass
IEEE 802.11b	Middle	9.28	500	Pass
	Highest	9.28	500	Pass
	Lowest	16.72	500	Pass
IEEE 802.11g	Middle	16.72	500	Pass
	Highest	16.72	500	Pass
IEEE 802.11n	Lowest	17.84	500	Pass
	Middle	17.90	500	Pass
(HT20)	Highest	17.90	500	Pass
JEEE 002 11	Lowest	36.50	500	Pass
IEEE 802.11n (HT40)	Middle	36.60	500	Pass
(1140)	Highest	36.40	500	Pass

IEEE 802.11b mode

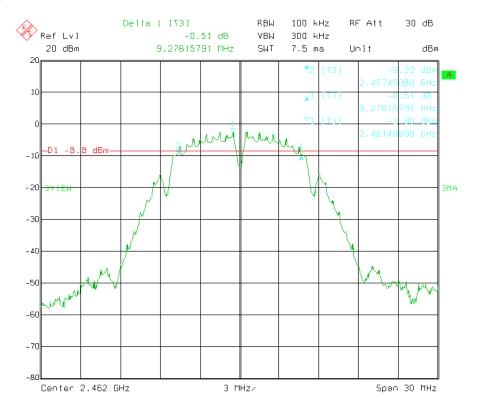
Low channel



Middle channel

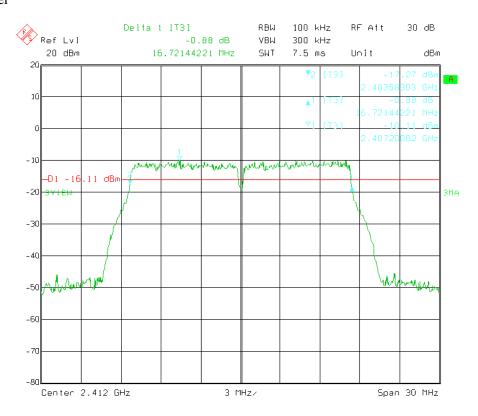


High channel

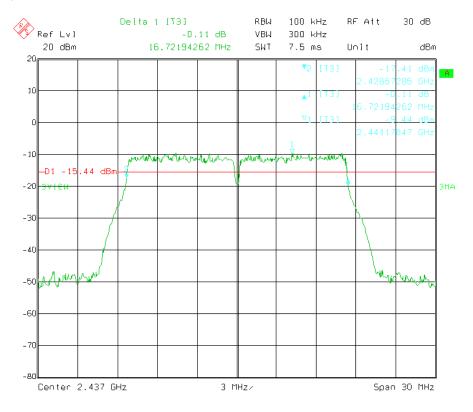


IEEE 802.11g mode

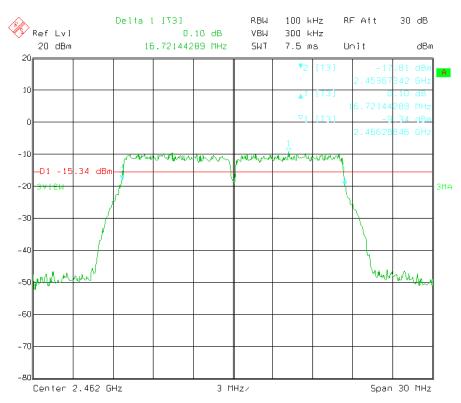
Low channel



Middle channel

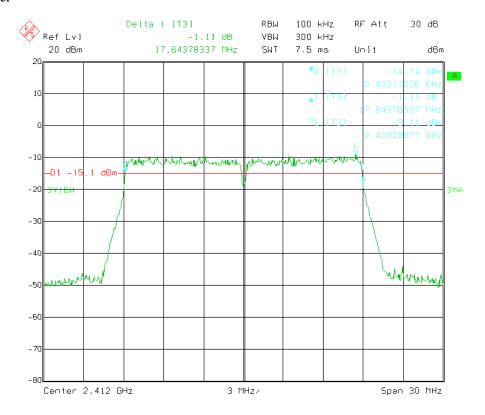


High channel

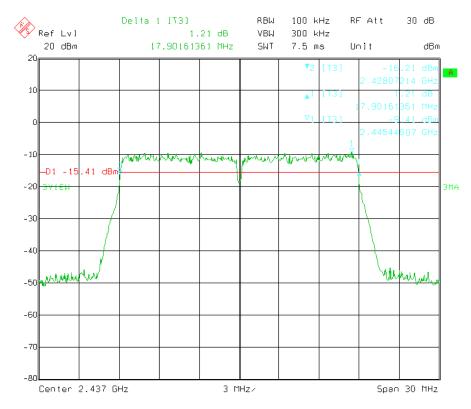


IEEE 802.11n (HT20) mode

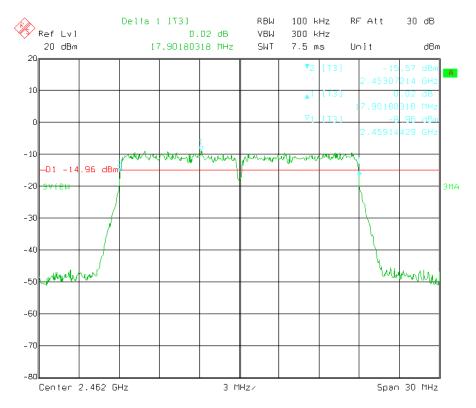
Low channel



Middle channel

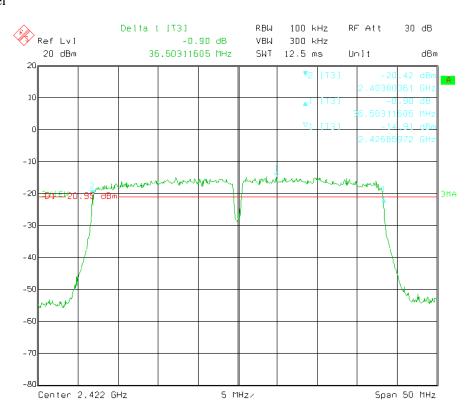


High channel

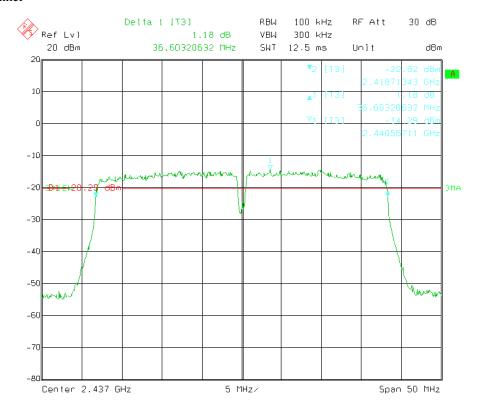


IEEE 802.11n (HT40) mode

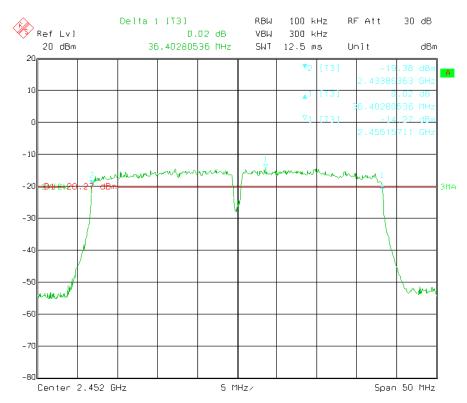
Low channel



Middle channel



High channel

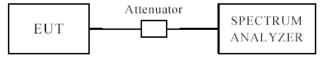


9.0 Power Spectral Density Measurement

9.1 Test Equipment

Instrument Type	Model	Serial No.	Manufacturer	Date of Cal.	Due Date
Spectrum Analyzer	FSEM	848597/001	ROHDE&SCHWARZ	Nov. 20, 2013	Nov. 19, 2014

9.2 Test configuration



9.3 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density is 8 dBm in any 3 kHz.

9.4 Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r01, the transmitter output was connected to the spectrum analyzer through an attenuator.

The spectrum analyzer is setting as follows:

- 1) Set analyzer centre frequency to DTS channel centre frequency.
- 2) Set the span to 1.5 times the DTS channel bandwidth.
- 3) Set the RBW>=3 kHz.
- 4) Set the VBW>=3*RBW.
- 5) Detector=peak.
- 6) Sweep time=auto couple.
- 7) Trace mode=max hold.
- 8) Allow trace to fully stabilize.
- 9) Use the peak marker function to determine the maximum amplitude level.
- 10) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.5 Test Result

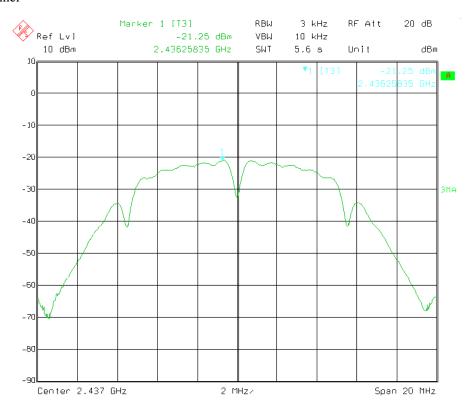
WiFi mode	Test channel	Peak Power Spectral Density (dBm)	Limit (dBm)	Result
	Lowest	-21.21	8	Pass
IEEE 802.11b	Middle	-21.25	8	Pass
	Highest	-21.02	8	Pass
	Lowest	-24.62	8	Pass
IEEE 802.11g	Middle	-24.72	8	Pass
	Highest	-24.21	8	Pass
IEEE 802.11n	Lowest	-23.34	8	Pass
	Middle	-22.24	8	Pass
(HT20)	Highest	-22.92	8	Pass
IEEE 802.11n (HT40)	Lowest	-27.79	8	Pass
	Middle	-28.12	8	Pass
	Highest	-26.96	8	Pass

IEEE 802.11b mode

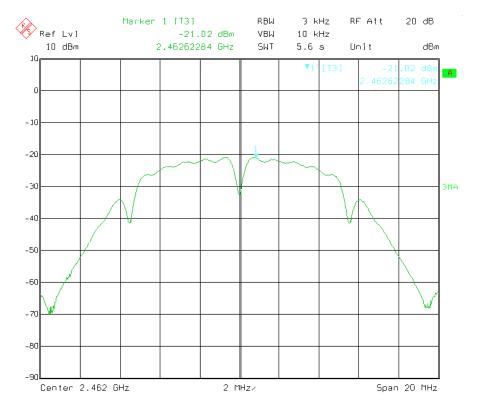
Low channel



Middle channel

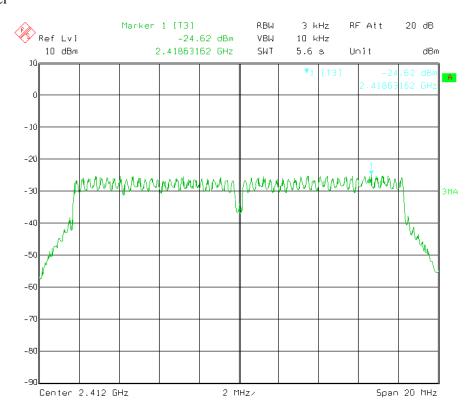


High channel

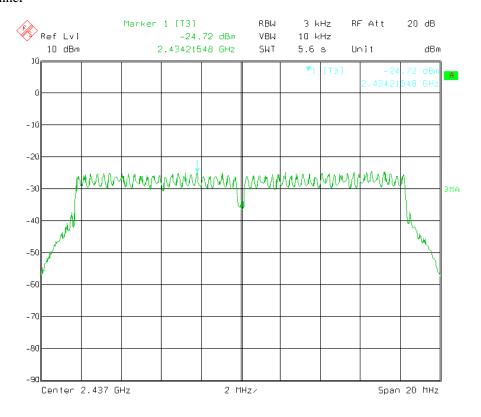


IEEE 802.11g mode

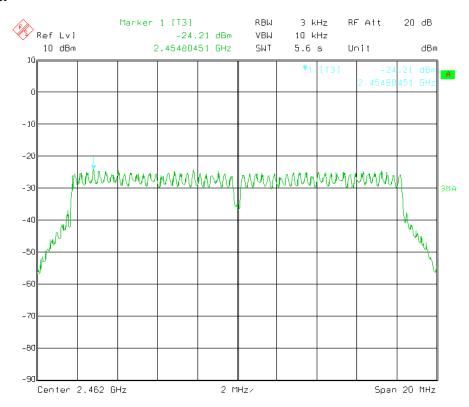
Low channel



Middle channel

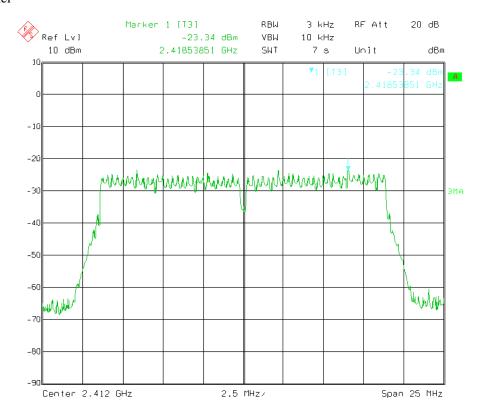


High channel

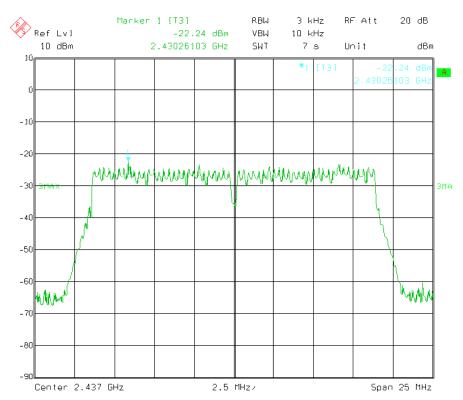


IEEE 802.11n (HT20) mode

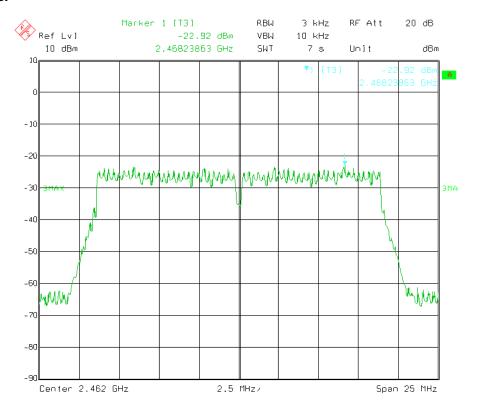
Low channel



Middle channel

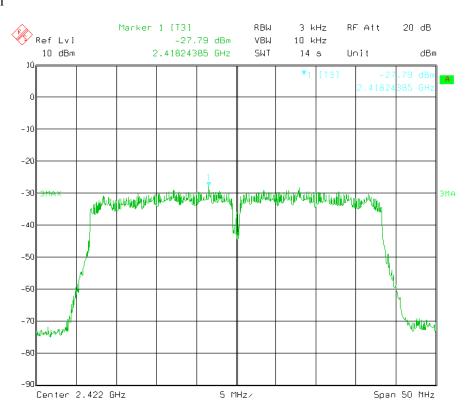


High channel

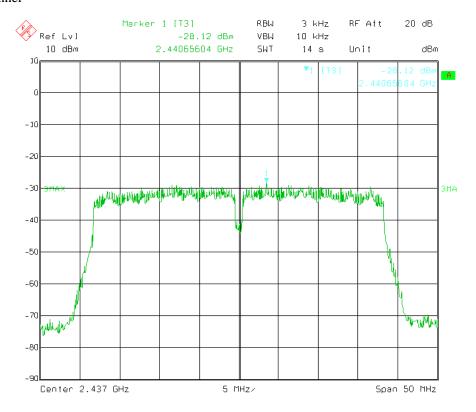


IEEE 802.11n (HT40) mode

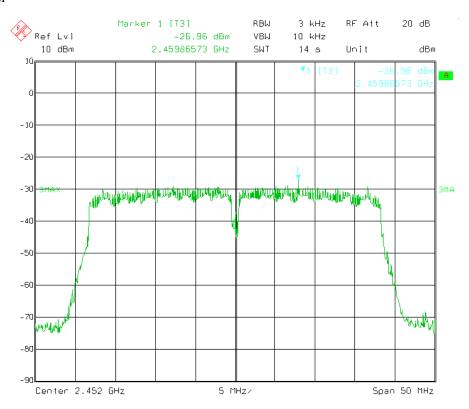
Low channel



Middle channel



High channel



10.0 Band age Measurement

10.1 Test Equipment

Instrument Type	Model	Serial No.	Manufacturer	Date of Cal.	Due Date
Spectrum Analyzer	FSEM	848597/001	ROHDE&SCHWARZ	Nov. 20, 2013	Nov. 19, 2014
Pre-amplifier	8449B	3008A01738	Agilent	Nov. 21, 2013	Nov. 20, 2014
Horn Antenna	3117		ETS LINDGREN	Nov. 21, 2013	Nov. 20, 2014

10.2 Limit

Radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with The radiated emission limits specified in 15.209(a)

10.3 Test specification

Environmental conditions: Temperature 22° C Humidity: 50% Atmospheric pressure: 103kPa

10.4 Test Procedure

The E.U.T. was setup according to ANSI C63.10:2009 and tested according to ANSI 63.10:2009 for compliance to FCC 47 CFR 15.247 requirements. The E.U.T. is placed on a turn table which is 0.8 m above ground. The turn table is rotated 360 degrees to determine to the position of the maximum emission level. The E.U.T. was positioned such That the distance from antenna to the E.U.T. was 3 metres. The antenna is scanned from 1 metre to 4 metres to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2009 on radiated measurement.

Spectrum analyzer parameters setting as shown below:

- 1): Peak: RBW=1MHz, VBW=1MHz, Sweep=Auto
- 2): Average: RBW=1MHz, VBW=10Hz, Sweep=Auto

10.5 Test Result

IEEE 802.11b mode, Low channel							
Frequency (MHz)	Peak Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Peak Final Level (dBuV/m)	Average Limits (dBuV/m)	Antenna Polarity
2310	46.52	27.34	2.32	32.14	44.04	54.00	Horizontal
2375.68	48.27	28.29	2.45	32.33	46.68	54.00	Horizontal
2390	53.26	28.29	2.45	32.33	51.67	54.00	Horizontal
2310	41.97	27.34	2.32	32.14	39.49	54.00	Vertical
2375.68	47.16	28.29	2.45	32.33	45.57	54.00	Vertical
2390	48.95	28.29	2.45	32.33	47.36	54.00	Vertical
IEEE 802.11t	mode, High cl	nannel					
Frequency (MHz)	Peak Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Peak Final Level (dBuV/m)	Average Limits (dBuV/m)	Antenna Polarity
2483.5	53.46	28.29	2.67	32.33	52.09	54.00	Horizontal
2493.54	51.27	28.29	2.67	32.33	49.90	54.00	Horizontal
2500	44.21	28.29	2.67	32.33	42.84	54.00	Horizontal
2483.5	52.61	28.29	2.67	32.33	51.24	54.00	Vertical
2491.95	45.29	28.29	2.67	32.33	43.92	54.00	Vertical
2500	40.09	28.29	2.67	32.33	38.72	54.00	Vertical

IEEE 802.11g mode, Low channel							
Frequency (MHz)	Peak Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Peak Final Level (dBuV/m)	Average Limits (dBuV/m)	Antenna Polarity
2310	46.49	27.34	2.32	32.14	44.01	54.00	Horizontal
2375.68	48.73	28.29	2.45	32.33	47.14	54.00	Horizontal
2390	53.61	28.29	2.45	32.33	52.02	54.00	Horizontal
2310	42.18	27.34	2.32	32.14	39.70	54.00	Vertical
2375.68	47.49	28.29	2.45	32.33	45.90	54.00	Vertical
2390	48.62	28.29	2.45	32.33	47.03	54.00	Vertical
IEEE 802.11g	g mode, High cl	nannel					
Frequency (MHz)	Peak Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Peak Final Level (dBuV/m)	Average Limits (dBuV/m)	Antenna Polarity
2483.5	53.85	28.29	2.67	32.33	52.48	54.00	Horizontal
2493.54	51.77	28.29	2.67	32.33	50.40	54.00	Horizontal
2500	44.64	28.29	2.67	32.33	43.27	54.00	Horizontal
2483.5	52.67	28.29	2.67	32.33	51.30	54.00	Vertical
2493.54	45.34	28.29	2.67	32.33	43.97	54.00	Vertical
2500	40.13	28.29	2.67	32.33	38.76	54.00	Vertical

Г	D 1 D 1	A .	C 11 I	D	D 1 E' 1	A .	A 4
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
2310	46.67	27.34	2.32	32.14	44.19	54.00	Horizontal
2375.68	48.79	28.29	2.45	32.33	47.20	54.00	Horizontal
2390	53.46	28.29	2.45	32.33	51.87	54.00	Horizontal
2310	42.73	27.34	2.32	32.14	40.25	54.00	Vertical
2375.68	46.48	28.29	2.45	32.33	44.89	54.00	Vertical
2390	48.26	28.29	2.45	32.33	46.67	54.00	Vertical
IEEE 802.11r	n (HT20) mode,	High channel					
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
,	(dBuV)	(dB/m)	, ,	` /	(dBuV/m)	(dBuV/m)	
2483.5	53.89	28.29	2.67	32.33	52.52	54.00	Horizontal
2493.54	51.15	28.29	2.67	32.33	49.78	54.00	Horizontal
2500	44.67	28.29	2.67	32.33	43.30	54.00	Horizontal
2483.5	52.37	28.29	2.67	32.33	51.00	54.00	Vertical
2493.54	45.14	28.29	2.67	32.33	43.77	54.00	Vertical
2500	40.08	28.29	2.67	32.33	38.71	54.00	Vertical

IEEE 802.11n (HT40) mode, Low channel							
Frequency (MHz)	Peak Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Peak Final Level (dBuV/m)	Average Limits (dBuV/m)	Antenna Polarity
2310	45.72	27.34	2.32	32.14	43.24	54.00	Horizontal
2375.68	47.24	28.29	2.45	32.33	45.65	54.00	Horizontal
2390	53.64	28.29	2.45	32.33	52.05	54.00	Horizontal
2310	42.54	27.34	2.32	32.14	40.06	54.00	Vertical
2375.68	47.68	28.29	2.45	32.33	46.09	54.00	Vertical
2390	48.35	28.29	2.45	32.33	46.76	54.00	Vertical
IEEE 802.11r	(HT40) mode	, High channel					
Frequency (MHz)	Peak Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Peak Final Level (dBuV/m)	Average Limits (dBuV/m)	Antenna Polarity
2483.5	53.49	28.29	2.67	32.33	52.12	54.00	Horizontal
2493.54	51.31	28.29	2.67	32.33	49.94	54.00	Horizontal
2500	44.22	28.29	2.67	32.33	42.85	54.00	Horizontal
2483.5	52.17	28.29	2.67	32.33	50.80	54.00	Vertical
2493.54	45.05	28.29	2.67	32.33	43.68	54.00	Vertical
2500	40.36	28.29	2.67	32.33	38.99	54.00	Vertical

Remark:

- 1) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- 2) If the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
- 3) The emission levels of other frequencies are very lower than the limit and not shown in the report.

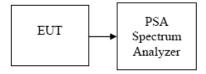
11.0 Spurious Emission Test

11.1 Conducted emissions Measurement

11.1.1 Test Equipment

Instrument Type	Model	Serial No.	Manufacturer	Date of Cal.	Due Date
Spectrum Analyzer	FSEM	848597/001	ROHDE&SCHWARZ	Nov. 20, 2013	Nov. 19, 2014

11.1.2 Test configuration



11.1.3 Limit

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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

11.1.4 Test procedure

Conducted RF measurements of the transmitter output were made to confirm that the E.U.T. antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site. The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz. Measurements are made over the 30MHz to 25 GHz range with the transmitter set to the lowest, middle, and highest channels.

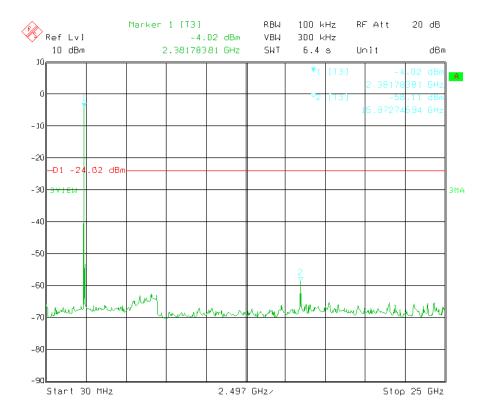
11.1.5 Test Result

Test plots please refer to next pages.

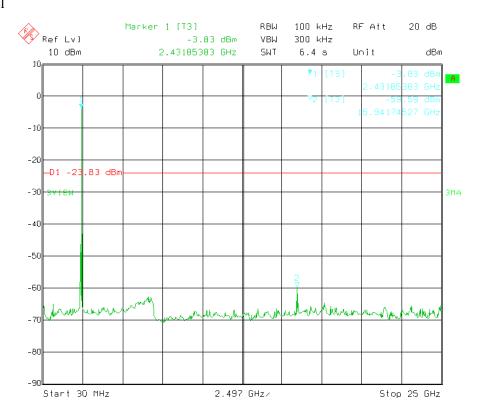
Note: Conducted emissions measurements below 30 MHz were made, and the maximum peak was detected, which is much less the limit. So it is not submitted in the report.

IEEE 802.11b mode

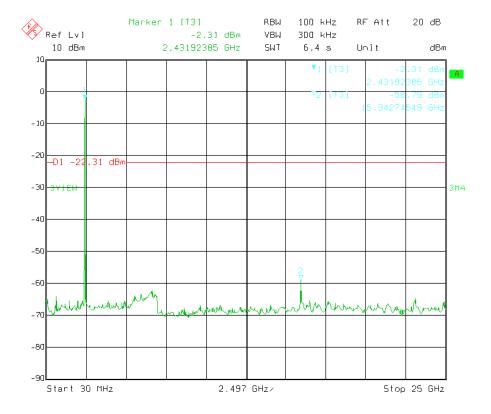
Low channel



Middle channel

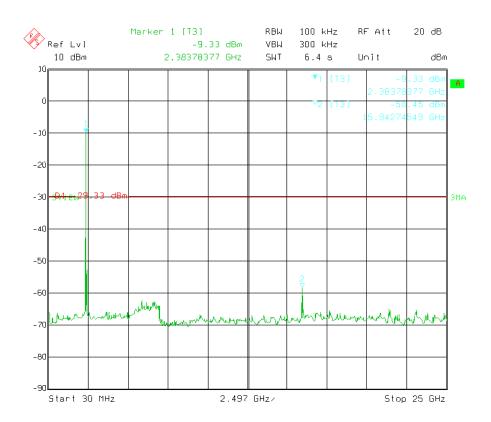


High channel

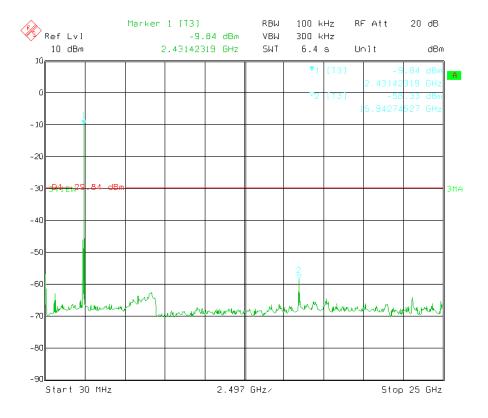


IEEE 802.11g mode

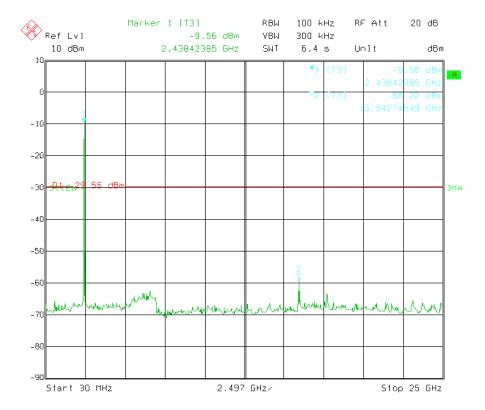
Low channel



Middle channel

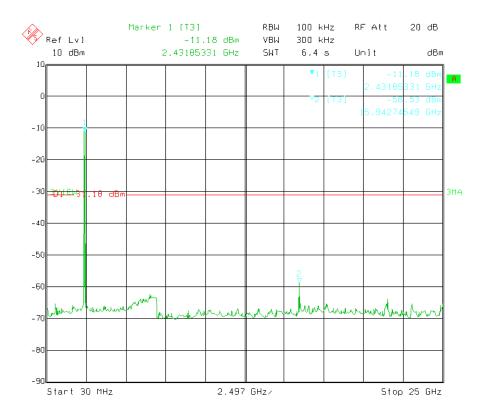


High channel

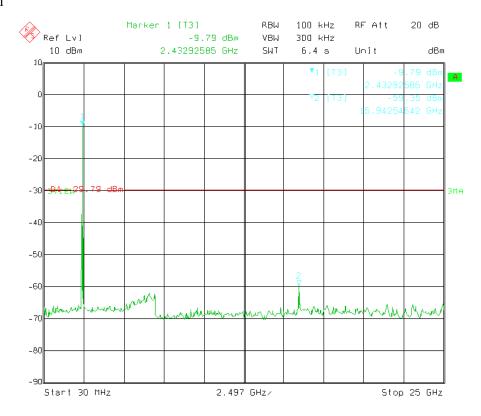


IEEE 802.11n (HT20) mode

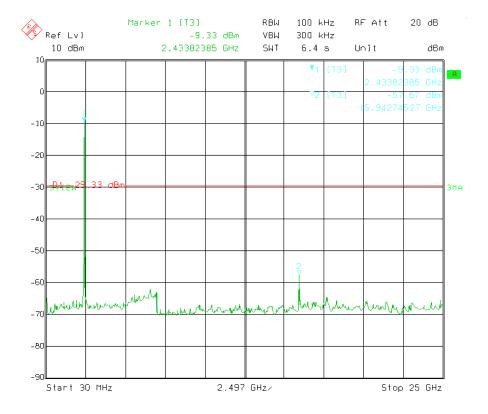
Low channel



Middle channel

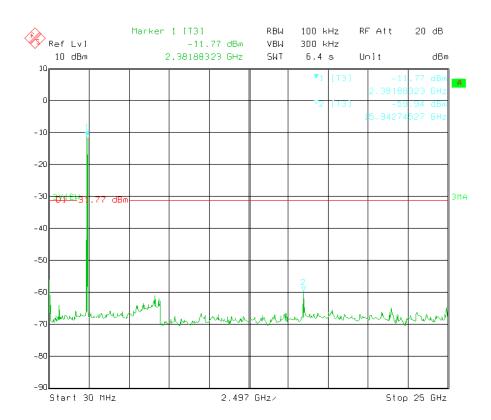


High channel

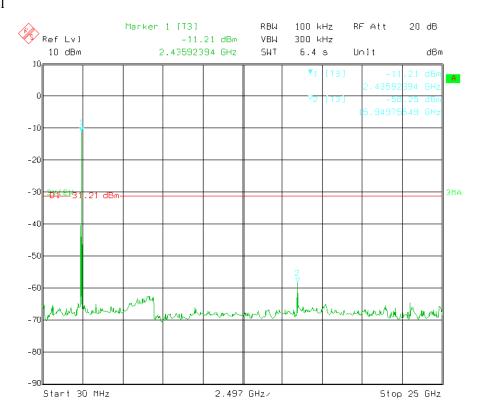


IEEE 802.11n (HT40) mode

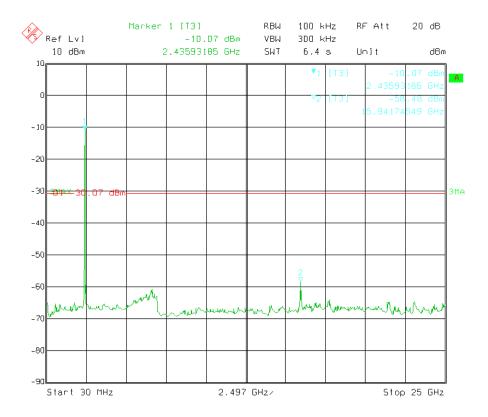
Low channel



Middle channel



High channel



Report No.: POCE14082637KRF FCC ID: 2ACBS-7CI

11.2 Radiated emissions Measurement

11.2.1 Test Equipment

Instrument Type	Model	Serial No.	Manufacturer	Date of Cal.	Due Date
ESPI Test Receiver	ESPI 3	100379	ROHDE&SCHWARZ	Nov. 20, 2013	Nov. 19, 2014
Spectrum Analyzer	FSEM	848597/001	ROHDE&SCHWARZ	Nov. 20, 2013	Nov. 19, 2014
Pre-amplifier	LNA6900		Teseq	Nov. 21, 2013	Nov. 20, 2014
Pre-amplifier	8447D	83153007374	Agilent	Nov. 21, 2013	Nov. 20, 2014
Pre-amplifier	8449B	3008A01738	Agilent	Nov. 21, 2013	Nov. 20, 2014
Loop antenna	PLA-1030/B	1029	A.R.A.	Nov. 21, 2013	Nov. 20, 2014
Ultra Broadband ANT	HL562	100157	ROHDE&SCHWARZ	Nov. 21, 2013	Nov. 20, 2014
Horn Antenna	3117		ETS LINDGREN	Nov. 21, 2013	Nov. 20, 2014
Horn Antenna	3160		ETS LINDGREN	Nov. 21, 2013	Nov. 20, 2014

11.2.2 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209.

	0 1	
Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log 2400/F (kHz) + 80
0.490-1.705	3	20log 24000/F (kHz) + 40
1.705-30	3	20log 30 + 40
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

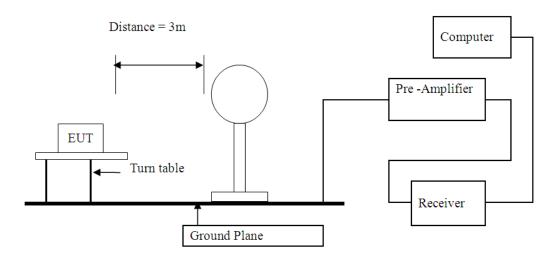
Note: 1) RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$

- 2) In the Above Table, the tighter limit applies at the band edges.
- 3) Distance refers to the distance in meters between the measuring instrument antenna and the E.U.T.
- 4) This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5) All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK and AV detector.
- 6) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 * (d2/d1)

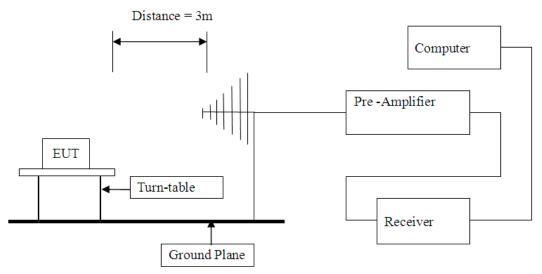
11.2.3 E.U.T. Operating Condition

Operating condition is according to ANSI C63.10 -2009

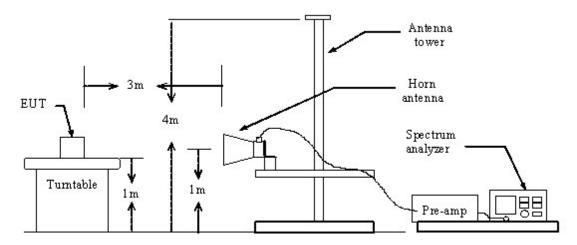
11.2.4 Block diagram of Test setup Below 30 MHz



30 MHz to 1000 MHz



Above 1000 MHz



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11.2.5 Test Method and test Procedure

- 1) The E.U.T. was tested according to ANSI C63.10 –2009.
- 2) The E.U.T., peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2009.
- 3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- 4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- 5) The antenna polarization: Vertical polarization and Horizontal polarization.

11.2.6 Test specification

Environmental conditions: Temperature 22° C Humidity: 51% Atmospheric pressure: 103kPa

11.2.7 Test result

Radiated Emission (9 kHz-30 MHz)

Result: Pass

Frequency (MHz)	Level@3m (dB \u03bc V/m)	Limit@3m (dB \mu V/m)

Note: 1) Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor

2) The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

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Shenzhen POCE Technology Co., Ltd.

Report No.: POCE14082637KRF FCC ID: 2ACBS-7CI

Radiated Emission (30MHz-1000MHz)

Frequency	Read Level	Antenna Factor	Cable Loss	Preamp	Final Level	Limit	Antenna
(MHz)	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	Polarity
42.1564	36.82	13.22	0.35	26.68	23.71	40.00	Horizontal
94.4982	32.48	14.86	0.51	26.72	21.13	43.50	Horizontal
119.6428	35.81	15.24	0.58	26.81	24.82	43.50	Horizontal
242.1974	34.19	16.82	0.84	26.91	24.94	46.00	Horizontal
860.3482	41.28	19.67	1.76	26.75	35.96	46.00	Horizontal
42.9976	34.75	13.94	0.42	26.82	22.29	40.00	Vertical
102.8024	38.49	14.86	0.59	26.91	27.03	43.50	Vertical
240.6485	38.31	16.64	0.78	26.34	29.39	46.00	Vertical
601.8549	36.41	18.59	0.96	26.75	29.21	46.00	Vertical
871.3624	39.11	19.34	1.45	26.81	33.09	46.00	Vertical

Remark:

- 1) Final Level= Read Level+Antenna Factor+Cable Loss-Preamp
- 2) The measurements were conducted in all WiFi modes(b/g/n) in all three channels (Low/Middle/High) and the worst case (b mode in Low channel) was reported only.

Harmonics Radiated Emission Data (1000MHz-25000MHz)

	b mode, Low	` `	UMHz-25000M	1112)			
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
, ,	(dBuV)	(dB/m)	, ,	, ,	(dBuV/m)	(dBuV/m)	
4824	51.52	30.56	5.60	33.53	54.15	54.00	Horizontal
7236	38.27	35.41	7.24	33.82	47.10	54.00	Horizontal
9648						54.00	Horizontal
12060						54.00	Horizontal
14472						54.00	Horizontal
16884						54.00	Horizontal
19296						54.00	Horizontal
21708						54.00	Horizontal
24120						54.00	Horizontal
4824	48.67	30.56	5.60	33.53	51.30	54.00	Vertical
7236	36.82	35.41	7.24	33.82	45.65	54.00	Vertical
9648						54.00	Vertical
12060						54.00	Vertical
14472						54.00	Vertical
16884						54.00	Vertical
19296						54.00	Vertical
21708						54.00	Vertical
24120						54.00	Vertical
IEEE 802.11	b mode, Midd	lle channel					•
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4874	50.85	30.56	5.60	33.53	53.48	54.00	Horizontal
7311	38.25	35.41	7.24	33.82	47.08	54.00	Horizontal
9748						54.00	Horizontal
12185						54.00	Horizontal
14622						54.00	Horizontal
17059						54.00	Horizontal
19496						54.00	Horizontal
21933						54.00	Horizontal
24370						54.00	Horizontal
4874	48.46	30.56	5.60	33.53	51.09	54.00	Vertical
7311	36.97	35.41	7.24	33.82	45.80	54.00	Vertical
9748						54.00	Vertical
12185						54.00	Vertical
14622						54.00	Vertical
17059						54.00	Vertical
19496						54.00	Vertical
21933						54.00	Vertical
24370						54.00	Vertical

Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4924	50.34	30.56	5.60	33.53	52.97	54.00	Horizontal
7386	38.37	35.41	7.24	33.82	47.20	54.00	Horizontal
9848						54.00	Horizontal
12310						54.00	Horizontal
14772						54.00	Horizontal
17234						54.00	Horizontal
19696						54.00	Horizontal
22158					-	54.00	Horizontal
24620					-	54.00	Horizontal
4924	47.26	30.56	5.60	33.53	49.89	54.00	Vertical
7386	35.68	35.41	7.24	33.82	44.51	54.00	Vertical
9848						54.00	Vertical
12310						54.00	Vertical
14772						54.00	Vertical
17234						54.00	Vertical
19696						54.00	Vertical
22158						54.00	Vertical
24620						54.00	Vertical
IEEE 802.11	g mode, Low	channel					
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4824	50.12	30.56	5.60	33.53	52.75	54.00	Horizontal
7236	38.20	35.41	7.24	33.82	47.03	54.00	Horizontal
9648						54.00	Horizontal
12060						54.00	Horizontal
14472						54.00	Horizontal
16884						54.00	Horizontal
19296						54.00	Horizontal
21708						54.00	Horizonta
24120						54.00	Horizontal
4824	46.67	30.56	5.60	33.53	49.30	54.00	Vertical
7236	35.62	35.41	7.24	33.82	44.45	54.00	Vertical
9648						54.00	Vertical
12060						54.00	Vertical
14472						54.00	Vertical
16884						54.00	Vertical
19296						54.00	Vertical
21708						54.00	Vertical
24120	1			i		54.00	Vertical

Frequency	g mode, Midd Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
(1,1112)	(dBuV)	(dB/m)	(42)	Tuetor (ub)	(dBuV/m)	(dBuV/m)	loidity
4874	50.24	30.56	5.60	33.53	52.87	54.00	Horizonta
7311	37.37	35.41	7.24	33.82	46.20	54.00	Horizonta
9748	37.37	33.11	7.2	33.02		54.00	Horizonta
12185						54.00	Horizonta
14622						54.00	Horizonta
17059						54.00	Horizonta
19496						54.00	Horizonta
21933						54.00	Horizonta
24370						54.00	Horizonta
4874	46.62	30.56	5.60	33.53	49.25	54.00	Vertical
7311	35.84	35.41	7.24	33.82	44.67	54.00	Vertical
9748						54.00	Vertical
12185						54.00	Vertical
14622						54.00	Vertical
17059						54.00	Vertical
19496						54.00	Vertical
21933						54.00	Vertical
24370						54.00	Vertical
IEEE 802.11	g mode, High	channel					•
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4924	49.32	30.56	5.60	33.53	51.95	54.00	Horizonta
7386	37.19	35.41	7.24	33.82	46.02	54.00	Horizonta
9848						54.00	Horizonta
12310						54.00	Horizonta
14772						54.00	Horizonta
17234						54.00	Horizonta
19696						54.00	Horizonta
22158						54.00	Horizonta
24620					-	54.00	Horizonta
4924	46.67	30.56	5.60	33.53	49.30	54.00	Vertical
7386	36.14	35.41	7.24	33.82	44.97	54.00	Vertical
9848						54.00	Vertical
12310						54.00	Vertical
14772						54.00	Vertical
17234						54.00	Vertical
19696						54.00	Vertical
22158						54.00	Vertical
	1		1	t		1	1

IEEE 802.11	ln (HT20) mod	ie, Low chann	el			•	
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4824	50.39	30.56	5.60	33.53	53.02	54.00	Horizontal
7236	37.11	35.41	7.24	33.82	45.94	54.00	Horizontal
9648						54.00	Horizontal
12060						54.00	Horizontal
14472						54.00	Horizontal
16884						54.00	Horizontal
19296						54.00	Horizontal
21708						54.00	Horizontal
24120						54.00	Horizontal
4824	47.57	30.56	5.60	33.53	50.20	54.00	Vertical
7236	37.19	35.41	7.24	33.82	46.02	54.00	Vertical
9648						54.00	Vertical
12060						54.00	Vertical
14472						54.00	Vertical
16884						54.00	Vertical
19296						54.00	Vertical
21708						54.00	Vertical
24120						54.00	Vertical
IEEE 802.11	ln (HT20) mod	le, Middle cha	nnel			I	
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4874	50.34	30.56	5.60	33.53	52.97	54.00	Horizontal
7311							
	37.05	35.41	7.24	33.82	45.88	54.00	Horizontal
9748	1			33.82	45.88	54.00 54.00	Horizontal Horizontal
9748 12185	1			33.82	45.88		•
	1			33.82		54.00	Horizontal
12185	1			33.82		54.00 54.00	Horizontal Horizontal
12185 14622	1			33.82		54.00 54.00 54.00	Horizontal Horizontal Horizontal
12185 14622 17059	1			33.82	 	54.00 54.00 54.00 54.00	Horizontal Horizontal Horizontal
12185 14622 17059 19496	1			33.82	 	54.00 54.00 54.00 54.00 54.00	Horizontal Horizontal Horizontal Horizontal
12185 14622 17059 19496 21933	1			33.82	 	54.00 54.00 54.00 54.00 54.00 54.00	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal
12185 14622 17059 19496 21933 24370	37.05	35.41	7.24		 	54.00 54.00 54.00 54.00 54.00 54.00 54.00	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal
12185 14622 17059 19496 21933 24370 4874	37.05 47.32	35.41	7.24 5.60	33.53	 49.95	54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Vertical
12185 14622 17059 19496 21933 24370 4874 7311	37.05 47.32	35.41	7.24 5.60	33.53	 49.95 44.99	54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Vertical Vertical
12185 14622 17059 19496 21933 24370 4874 7311 9748 12185	37.05 47.32	35.41	7.24 5.60	33.53	 49.95 44.99	54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Vertical Vertical Vertical
12185 14622 17059 19496 21933 24370 4874 7311 9748 12185 14622	37.05 47.32	35.41	7.24 5.60	33.53	 49.95 44.99	54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Vertical Vertical Vertical Vertical Vertical
12185 14622 17059 19496 21933 24370 4874 7311 9748 12185 14622 17059	37.05 47.32	35.41	7.24 5.60	33.53	 49.95 44.99 	54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Vertical Vertical Vertical Vertical Vertical Vertical
12185 14622 17059 19496 21933 24370 4874 7311 9748 12185 14622	37.05 47.32	35.41	7.24 5.60	33.53	 49.95 44.99 	54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal Vertical Vertical Vertical Vertical Vertical

Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
()	(dBuV)	(dB/m)	()	()	(dBuV/m)	(dBuV/m)	
4924	50.16	30.56	5.60	33.53	52.79	54.00	Horizontal
7386	38.38	35.41	7.24	33.82	47.21	54.00	Horizontal
9848			,,			54.00	Horizontal
12310						54.00	Horizontal
14772						54.00	Horizontal
17234						54.00	Horizontal
19696						54.00	Horizontal
22158						54.00	Horizontal
24620						54.00	Horizontal
4924	46.18	30.56	5.60	33.53	48.81	54.00	Vertical
7386	35.29	35.41	7.24	33.82	44.12	54.00	Vertical
9848						54.00	Vertical
12310						54.00	Vertical
14772						54.00	Vertical
17234						54.00	Vertical
19696						54.00	Vertical
22158						54.00	Vertical
24620						54.00	Vertical
IEEE 802.11	n (HT40) mod	le, Low channe	el				
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4844	49.19	30.56	5.60	33.53	51.82	54.00	Horizontal
7266	37.63	35.41	7.24	33.82	46.46	54.00	Horizontal
9688						54.00	Horizontal
12110						54.00	Horizontal
14532						54.00	Horizontal
16954						54.00	Horizontal
17176						54.00	Horizontal
21798						54.00	Horizontal
24220						54.00	Horizontal
4844	46.24	30.56	5.60	33.53	48.87	54.00	Vertical
7266	35.87	35.41	7.24	33.82	44.70	54.00	Vertical
9688						54.00	Vertical
12110						54.00	Vertical
14532						54.00	Vertical
16954						54.00	Vertical
17176						54.00	Vertical
21798						54.00	Vertical

IEEE 802.11	n (HT40) mod	le, Middle cha	annel				
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4874	50.31	30.56	5.60	33.53	52.94	54.00	Horizontal
7311	36.37	35.41	7.24	33.82	45.20	54.00	Horizontal
9748						54.00	Horizontal
12185						54.00	Horizontal
14622						54.00	Horizontal
17059						54.00	Horizontal
19496						54.00	Horizontal
21933						54.00	Horizontal
24370						54.00	Horizontal
4874	46.95	30.56	5.60	33.53	49.58	54.00	Vertical
7311	35.41	35.41	7.24	33.82	44.24	54.00	Vertical
9748						54.00	Vertical
12185						54.00	Vertical
14622						54.00	Vertical
17059						54.00	Vertical
19496						54.00	Vertical
21933						54.00	Vertical
24370						54.00	Vertical
	n (HT40) mod	le , High chanı	nel				
Frequency	Peak Read	Antenna	Cable Loss	Preamp	Peak Final	Average	Antenna
(MHz)	Level	Factor	(dB)	Factor (dB)	Level	Limits	Polarity
	(dBuV)	(dB/m)			(dBuV/m)	(dBuV/m)	
4904	49.34	30.56	5.60	33.53	51.97	54.00	Horizontal
7356	37.22	35.41	7.24	33.82	46.05	54.00	Horizontal
9808						54.00	Horizontal
12260						54.00	Horizontal
14712						54.00	Horizontal
17164						54.00	Horizontal
19616						54.00	Horizontal
22068						54.00	Horizontal
24520						54.00	Horizontal
4904	45.81	30.56	5.60	33.53	48.44	54.00	Vertical
7356	37.23	35.41	7.24	33.82	46.06	54.00	Vertical
9808						54.00	Vertical
—						54.00	Vertical
12260							
12260 14712						54.00	Vertical
						54.00 54.00	Vertical Vertical
14712						•	1
14712 17164						54.00	Vertical

Remark:

- 1) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- 2) If the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
- 3) "--" means this data is too weak to be able to test.
- 4) The emission levels of other frequencies are very lower than the limit and not shown in the report.