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of

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TEST REPORT

of

FCC Part 15 Subpart E §15.407

FCC ID: A3LCCBP730Q

Equipment Under Test

: WiFi/BT Combo Module

Model Name

: CCBP730Q

Applicant

: Samsung Electronics Co., Ltd.

Manufacturer

: Samsung Electronics Co., Ltd.

Date of Receipt

: 2019.01.24

Date of Test(s)

: 2019.01.25 ~ 2019.04.30

Date of Issue

: 2019.05.02

In the configuration tested, the EUT complied with the standards specified above.

Tested By:

Date:

2019.05.02

Technical

Manager:

Date:

2019.05.02

Hyunchae You



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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

- 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

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1.2. Details of Applicant

Applicant : Samsung Electronics Co., Ltd.

Address : 19 Chapin Rd., Building D, Pine Brook, New Jersey, United States, 07058

Contact Person : Chun, Jenni Phone No. : +1 973 808 6375

1.3. Details of Manufacturer

Company : Same as above Address : Same as above



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1.4. Description of EUT

Kind of Product	t	WiFi/BT Combo Module				
Model Name		CCBP730Q				
Power Supply DC 5 V						
Frequency Range		2 402 Mb ~ 2 480 Mb (Bluetooth, Bluetooth Low Energy), 2 412 Mb ~ 2 462 Mb (11b/g/n_HT20), 2 422 Mb ~ 2 452 Mb (11n_HT40) 5 745 Mb ~ 5 825 Mb (Band 3: 11a/n_HT20, 11ac_VHT20), 5 755 Mb ~ 5 795 Mb (Band 3: 11n_HT40, 11ac_VHT40), 5 775 Mb (Band 3: 11ac_VHT80), 5 180 Mb ~ 5 240 Mb (Band 1: 11a/n_HT20, 11ac_VHT20), 5 190 Mb ~ 5 230 Mb (Band 1: 11n_HT40, 11ac_VHT40), 5 210 Mb (Band 1: 11ac_VHT80), 5 260 Mb ~ 5 320 Mb (Band 2A: 11a/n_HT20, 11ac_VHT20), 5 270 Mb ~ 5 310 Mb (Band 2A: 11n_HT40, 11ac_VHT40), 5 290 Mb (Band 2A: 11ac_VHT80), 5 500 Mb ~ 5 720 Mb (Band 2C: 11a/n_HT20, 11ac_VHT20), 5 510 Mb ~ 5 710 Mb (Band 2C: 11n_HT40, 11ac_VHT40), 5 530 Mb ~ 5 690 Mb (Band 2C: 11ac_VHT80)				
Modulation Tec	hnique	DSSS, OFDM, GFSK, π/4DQPSK, 8DPSK				
Number of Cha	nnels	79 channel (Bluetooth), 40 channel (Bluetooth Low Energy), 11 channel (11b/g/n_HT20), 7 channel (11n_HT40) 5 channel (Band 3: 11a/n_HT20, 11ac_VHT20), 2 channel (Band 3: 11n_HT40, 11ac_VHT40), 1 channel (Band 3: 11ac_VHT80), 4 channel (Band 1: 11a/n_HT20, 11ac_VHT20), 2 channel (Band 1: 11n_HT40, 11ac_VHT40), 1 channel (Band 1: 11ac_VHT80), 4 channel (Band 2A: 11a/n_HT20, 11ac_VHT20), 2 channel (Band 2A: 11n_HT40, 11ac_VHT40), 1 channel (Band 2A: 11ac_VHT80), 9 channel (Band 2C: 11a/n_HT20, 11ac_VHT20), 4 channel (Band 2C: 11n_HT40, 11ac_VHT40), 2 channel (Band 2C: 11ac_VHT80)				
Antenna Type		PIFA antenna				
	ANT1 (WIFI_R)	2 400 MHz ~ 2 483.5 MHz: 1.8 dB i, 5 150 MHz ~ 5 250 MHz: 1.1 dB i, 5 250 MHz ~ 5 350 MHz: 1.6 dB i, 5 470 MHz ~ 5 725 MHz: 1.1 dB i, 5 725 MHz ~ 5 850 MHz: 0.6 dB i				
Antenna Gain	ANT2 (WIFI_L)	2 400 Mb ~ 2 483.5 Mb: 2.8 dBi, 5 150 Mb ~ 5 250 Mb: -0.1 dBi, 5 250 Mb ~ 5 350 Mb: 1.9 dBi, 5 470 Mb ~ 5 725 Mb: 2.4 dBi, 5 725 Mb ~ 5 850 Mb: 3.0 dBi				
	ANT3	2 400 Mb ~ 2 483.5 Mb: -0.1 dB i (Bluetooth, Bluetooth Low Energy)				

1.5. Declaration by the Manufacturer

- The EUT is a slave without radar detection and TPC.
- The EUT is not supported TDWR(5.6 5.65 GHz) band.

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1.6. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	Agilent	E8257D	MY51501169	Jul. 03, 2018	Annual	Jul. 03, 2019
Signal Generator	R&S	SMBV100A	255834	Jun. 15, 2018	Annual	Jun. 15, 2019
Spectrum Analyzer	R&S	FSV30	103210	Dec. 05, 2018	Annual	Dec. 05, 2019
Spectrum Analyzer	Agilent	N9020A	MY53421758	Sep. 21, 2018	Annual	Sep. 21, 2019
Spectrum Analyzer	Agilent	N9030A	US51350132	Sep. 21, 2018	Annual	Sep. 21, 2019
Power Meter	Anritsu	ML2495A	1223004	Jun. 12, 2018	Annual	Jun. 12, 2019
Power Sensor	Anritsu	MA2411B	1207272	Jun. 12, 2018	Annual	Jun. 12, 2019
Attenuator	MCLI	FAS-23-20	23834	Jun. 12, 2018	Annual	Jun. 12, 2019
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-2	Feb. 19, 2019	Annual	Feb. 19, 2020
High Pass Filter	Wainwright Instrument GmbH	WHKX6.0/18G-10SS	51	Jun. 11, 2018	Annual	Jun. 11, 2019
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	11	May 27, 2018	Annual	May 27, 2019
DC Power Supply	R&S	HMP2020	019258024	Nov. 06, 2018	Annual	Nov. 06, 2019
Preamplifier	H.P.	8447F	2944A03909	Aug. 07, 2018	Annual	Aug. 07, 2019
Preamplifier	Agilent	8449B	3008A01932	Feb. 22, 2019	Annual	Feb. 22, 2020
Preamplifier	MITEQ Inc.	JS44-18004000-35-8P	1546891	May 13, 2018	Annual	May 13, 2019
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 23, 2017	Biennial	Aug. 23, 2019
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB 9163	01126	Mar. 26, 2018	Biennial	Mar. 26, 2020
Horn Antenna	R&S	HF906	100326	Feb. 14, 2018	Biennial	Feb. 14, 2020
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	BBHA9170431	Sep. 10, 2018	Biennial	Sep. 10, 2020
Test Receiver	R&S	ESU26	100109	Jan. 31, 2019	Annual	Jan. 31, 2020
Test Receiver	R&S	ESCI 7	100911	Feb. 20, 2019	Annual	Feb. 20, 2020
Two-Line V-Network	R&S	ENV216	100190	May 14, 2018	Annual	May 14, 2019
Shield Room	SY Corporation	$L \times W \times H$ $(6.5 \text{ m} \times 3.5 \text{ m} \times 3.5 \text{ m})$	N/A	N.C.R.	N/A	N.C.R.
Turn Table	Innco systems GmbH	DS 1200 S	N/A	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/383 30516/L	N.C.R.	N/A	N.C.R.
Antenna Mast	Innco systems GmbH	MA4640-XP-ET	MA4640/536/383 30516/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	SUCOFLEX	104 (3 m)	MY3258414	Jan. 04, 2019	Semi- annual	Jul. 04, 2019
Coaxial Cable	SUCOFLEX	104 (10 m)	MY3145814	Jan. 04, 2019	Semi- annual	Jul. 04, 2019
Coaxial Cable	Rosenberger	LA1-C006-1500	131014 01/20	Feb. 28, 2019	Semi- annual	Aug. 28, 2019



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1.7. Summary of Test Result

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15 Subpart E								
Section	Test Item(s)	Result						
15.205(a) 15.209(a) 15.407(b)(1) 15.407(b)(2) 15.407(b)(3) 15.407(b)(4)	Transmitter Radiated Spurious Emissions	Complied						
15.407(a)	26 dB Bandwidth & 99 % Bandwidth	Complied						
15.407(e)	6 dB Bandwidth	Complied						
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Maximum Conducted Output Power	Complied						
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Peak Power Spectral Density	Complied						
15.207	AC Power Line Conducted Emission	Complied						

1.8. Test Procedure(s)

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 789033 D02 General UNII Test Procedures New Rules v02r01 were used in the measurement of the DUT.

1.9. Sample Calculation

Where relevant, the following sample calculation is provided:

1.9.1. Conducted Test

Offset value (dB) = Attenuator (dB) + Cable loss (dB)

1.9.2. Radiation Test

Field strength level ($dB\mu V/m$) = Measured level ($dB\mu V$) + Antenna factor (dB) + Cable loss (dB) - Amplifier gain (dB)



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1.10. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty (dB)
RF Output Power	± 0.34 dB
Occupied Bandwidth	± 9.66 kHz
Power Spectral Density	± 0.41 dB
Conducted Spurious Emission	± 0.76 dB
AC Conducted Emission	± 3.30 dB
Radiated Emission, 9 klb to 30 Mb	± 3.59 dB
Radiated Emission, below 1	± 5.88 dB
Radiated Emission, above 1 @lz	± 5.94 dB

Uncertainty figures are valid to a confidence level of 95 %.

1.11. Test Report Revision

Revision	Report number	Date of Issue	Description
0	F690501/RF-RTL013705	2019.04.18	Initial
1	F690501/RF-RTL013705-1	2019.04.30	Added Measurement Uncertainty of RF conducted test and 6 dB bandwidth test result of which antenna and Corrected test equipment Cal. Date.
2	С	2019.05.02	Corrected the frequency of 802.11ac_VHT80.



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1.12. Duty Cycle of EUT

Regarding to KDB 789033 D02 v02r01, B, the maximum duty cycles of all modes were investigated and set the spectrum analyzer as below

Set RBW \geq EBW if possible; otherwise, set RBW to the largest available value, Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100.

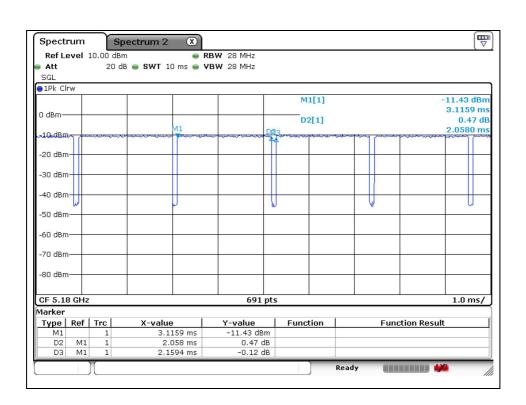
Mode	Data Rate (Mbps)	Duty Cycle (%)	Correction factor (dB)
11a	6	95.30	0.21
11n_HT20	MCS0	95.00	0.22
11n_HT40	MCS0	90.41	0.44
11ac_VHT80	MCS0	82.05	0.86

Remark;

- 1. As measured duty cycles of EUT, all of mode and data rate keep constant period and are converted to log scale (power averaging) to compensate correction factor to result of average test items.
- 2. Duty cycle (%) = (Tx on time / Tx on + off time) x 100
- 3. Correction factor (dB) = $10 \log (1 / \text{Duty cycle})$

- Test plots

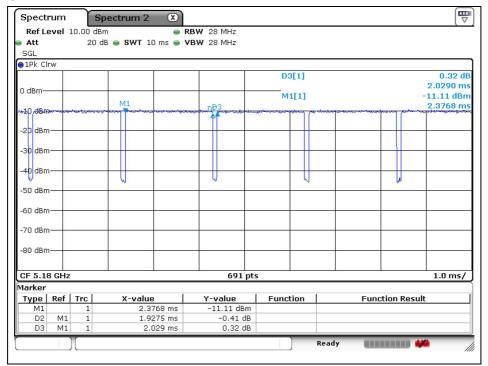
802.11a



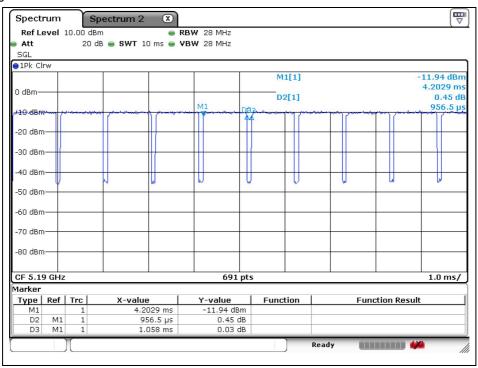


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802.11n_HT20



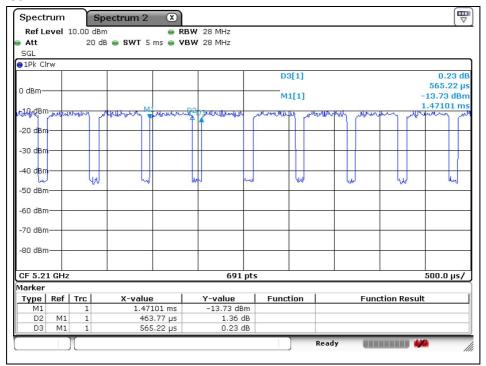
802.11n_HT40





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802.11ac_VHT80





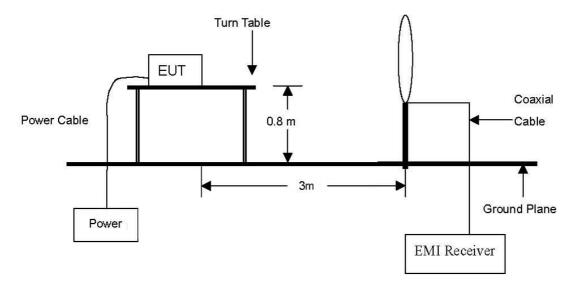
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2. Transmitter Radiated Spurious Emissions

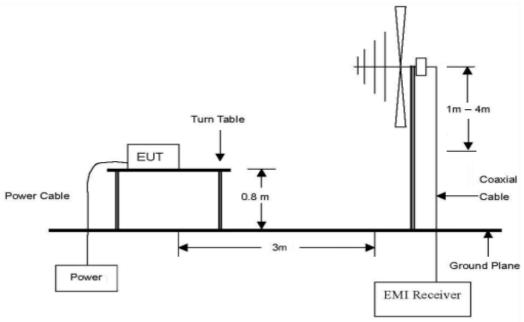
2.1. Test Setup

2.1.1. Transmitter Radiated Spurious Emissions

The diagram below shows the test setup that is utilized to make the measurements for emission from 9 klb to 30 Mb emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 Mb to 1 Gb emissions.



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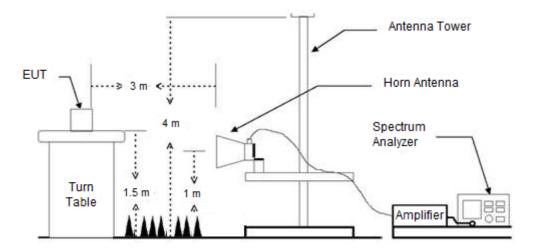
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 Tel. +82 31 428 5700 / Fax. +82 31 427 2370
 A4(210 mm x 297 mm)



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The diagram below shows the test setup that is utilized to make the measurements for emission. The spurious emissions were investigated form 1 GHz to the 10th harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.





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2.2. Limit

According to § 15.407(b)

- (1) For transmitters operating in the 5.15-5.25 强 band: All emissions outside of the 5.15-5.35 强 band shall not exceed an e.i.r.p. of -27 dB m/地.
- (2) For transmitters operating in the 5.25-5.35 \times band: All emissions outside of the 5.15-5.35 \times band shall not exceed an e.i.r.p. of -27 \times dB m/ \times band.
- (3) For transmitters operating in the 5.47-5.725 \times band: All emissions outside of the 5.47-5.725 \times band shall not exceed an e.i.r.p. of -27 \times m/Mb.
- (4) For transmitters operating in the 5.725-5.85 @b band:
- (i) All emissions shall be limited to a level of -27 dB m/Mb at 75 Mb or more above or below the band edge increasing linearly to 10 dB m/Mb at 25 Mb above or below the band edge, and from 25 Mb above or below the band edge increasing linearly to a level of 15.6 dB m/Mb at 5 Mb above or below the band edge, and from 5 Mb above or below the band edge increasing linearly to a level of 27 dB m/Mb at the band edge.

According to § 15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (Mb)	Field Strength $(\mu V/m)$	Measurement Distance (Meters)
0.009-0.490	2 400/F(kl拉)	300
0.490-1.705	24 000/F(klb)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 Mb, 76-88 Mb, 174-216 Mb or 470-806 Mb. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.



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2.3. Test Procedures

Radiated spurious emissions from the EUT were measured according to the dictates in section G of KDB 789033 D02 v02r01 and ANSI C63.10-2013.

2.3.1. Test Procedures for emission below 30 Mb

- 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
- 3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum Hold Mode.

2.3.2. Test Procedures for emission from above 30 Mb

- 2. During performing radiated emission below 1 \times , the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 \times , the EUT was set 3 meter away from the interference-receiving antenna.
- 3. The antenna is a bi-log antenna, a horn antenna and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

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Note;

All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

- II.G.4. Unwanted emissions measurements below 1 Glz. Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

- II.G.6. Average unwanted emissions measurements above 1 $\mbox{ }$ $\mbox{$

If tests are performed with the EUT transmitting at a duty cycle less than 98 %, a correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 % duty cycle. The correction factor is computed as follows:

- If power averaging (rms) mode was used in II.G.6.c)(iv), the correction factor is 10 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50 %, then 3 dB must be added to the measured emission levels.
- To get a maximum emission level from the EUT, the EUT is manipulated through three orthogonal planes (X, Y, Z). Worst orthogonal plan of EUT is $\underline{Y axis}$ during radiation test.



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2.4. Test result

Ambient temperature : (23 \pm 1) $^{\circ}$ C Relative humidity : 47 $^{\circ}$ R.H.

2.4.1. Radiated Spurious Emission below 1 000 Mb

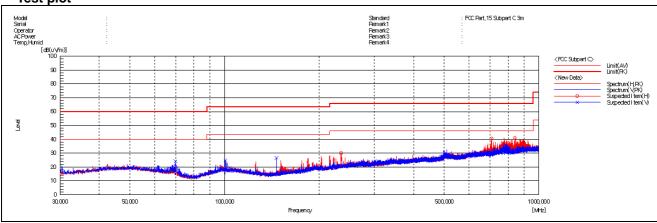
The frequency spectrum from 9 klb to 1 000 klb was investigated. All reading values are peak values.

Radiated Emissions			Ant.	Correctio	n Factors	Total Limit		it
Frequency (脈)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP + CL (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
69.85	41.00	Peak	V	9.45	-26.13	24.32	40.00	15.68
100.69	38.30	Peak	V	12.13	-25.48	24.95	43.50	18.55
146.52	43.20	Peak	V	8.20	-24.87	26.53	43.50	16.97
234.99	41.10	Peak	Н	12.20	-24.18	29.12	46.00	16.88
707.63	43.20	Peak	Н	19.78	-22.22	40.76	46.00	5.24
838.37	42.10	Peak	Н	21.38	-22.20	41.28	46.00	4.72
Above 900.00	Not detected	-	-	-	-	-	-	-

Remark;

- 1. Spurious emissions for all channels and modes were investigated and almost the same below 1 @lz.
- Reported spurious emissions are in <u>11a (Band 2C) / 6Mbps / Low channel.</u> as worst case among other modes.
- 3. Radiated spurious emission measurement as below. (Actual = Reading + AF + AMP + CL)
- 4. According to §15.31(o), emission levels are not report much lower than the limits by over 20 dB.

- Test plot



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 A4(210 mm x 297 mm)



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2.4.2. Radiated Spurious Emission above 1 000 Mb

OFDM: 802.11a (6 Mbps) Band 1_ANT 1+ANT 2

A. Low Channel (5 180 Mb)

Radiated Emissions			Ant.	Cor	rection Fac	tors	Total Limit		nit
Frequency (脈)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
*4 500.00	45.20	Peak	V	31.80	-23.35	1	53.65	74.00	20.35
*4 500.00	34.50	Average	V	31.80	-23.35	0.21	43.16	54.00	10.84
*4 959.34	46.07	Peak	V	32.82	-22.73	-	56.16	74.00	17.84
*5 098.18	34.97	Average	V	33.29	-22.49	0.21	45.98	54.00	8.02
*5 150.00	48.47	Peak	V	33.30	-22.58	-	59.19	74.00	14.81
*5 150.00	37.43	Average	V	33.30	-22.58	0.21	48.36	54.00	5.64

Radiated Emissions		Ant.	Correction Factors			Total	Limit		
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 220 账)

Radiated Emissions		Ant.	Correction Factors			Total	Lin	nit	
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 240 Mb)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (账)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



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OFDM: 802.11a (6 Mbps) Band 2A_ANT 1+ANT 2

A. Low Channel (5 260 账)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 300 Mb)

Radi	ated Emissio	ns	Ant.	Cor	Correction Factors			Lin	nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBuV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 320 Mb)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
*5 350.00	45.87	Peak	V	33.70	-22.16	-	57.41	74.00	16.59
*5 350.00	35.48	Average	V	33.70	-22.16	0.21	47.23	54.00	6.77
*5 406.60	45.56	Peak	V	33.61	-22.26	ı	56.91	74.00	17.09
*5 382.60	35.45	Average	V	33.63	-22.26	0.21	47.03	54.00	6.97
*5 460.00	42.72	Peak	V	33.74	-21.97	-	54.49	74.00	19.51
*5 460.00	33.79	Average	V	33.74	-21.97	0.21	45.77	54.00	8.23

Radi	ated Emissio	ns	Ant.	Cor	Correction Factors			Lin	nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



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OFDM: 802.11a (6 Mbps) Band 2C_ANT 1+ANT 2

A. Low Channel (5 500 Mb)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (脈)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
*5 350.00	43.10	Peak	V	33.70	-22.16	-	54.64	74.00	19.36
*5 350.00	34.11	Average	V	33.70	-22.16	0.21	45.86	54.00	8.14
*5 381.52	47.26	Peak	V	33.64	-22.25	-	58.65	74.00	15.35
*5 447.52	36.12	Average	V	33.70	-21.98	0.21	48.05	54.00	5.95
*5 460.00	45.73	Peak	V	33.74	-21.97	-	57.50	74.00	16.50
*5 460.00	36.32	Average	V	33.74	-21.97	0.21	48.30	54.00	5.70

Radi	Radiated Emissions		Ant.	Cor	Correction Factors			Lin	nit
Frequency (畑)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 580 Mb)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (Mb)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 700 Mb)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



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OFDM: 802.11a (6 Mbps) Band 3_ANT 1+ANT 2

A. Low Channel (5 745 账)

Radi	ated Emissio	ns	Ant.	Correction	on Factors	Total	Lin	nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5 632.81	45.71	Peak	V	33.70	-21.87	57.54	68.23	10.69
5 663.75	45.48	Peak	V	33.76	-21.84	57.40	78.40	21.00
5 706.57	46.11	Peak	V	33.90	-21.61	58.40	107.07	48.67
5 724.78	55.92	Peak	V	33.90	-21.68	68.14	121.73	53.59

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (Mb)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 785 账)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (Mb)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 825 Mb)

Radi	ated Emissio	ns	Ant.	Correction	on Factors	Total	Total Lim	
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5 852.36	45.63	Peak	V	34.01	-21.49	58.15	116.85	58.70
5 865.71	45.57	Peak	V	34.09	-21.40	58.26	107.83	49.57
5 880.38	45.56	Peak	V	34.18	-21.30	58.44	101.25	42.81
5 940.88	45.30	Peak	V	34.38	-21.26	58.42	68.23	9.81

Radi	ated Emissio	ns	Ant.	Cor	Correction Factors			Lin	nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



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OFDM: 802.11n_HT20 (MCS0) Band 1_ANT 1+ANT 2

A. Low Channel (5 180 Mb)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total Limit		nit
Frequency (脈)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
*4 500.00	44.53	Peak	V	31.80	-23.35	-	52.98	74.00	21.02
*4 500.00	34.78	Average	V	31.80	-23.35	0.22	43.45	54.00	10.55
*4 904.74	45.49	Peak	V	32.80	-22.87	-	55.42	74.00	18.58
*4 588.84	35.14	Average	V	31.70	-23.18	0.22	43.88	54.00	10.12
*5 150.00	47.55	Peak	V	33.30	-22.58	-	58.27	74.00	15.73
*5 150.00	38.72	Average	V	33.30	-22.58	0.22	49.66	54.00	4.34

Radi	ated Emissio	ns	Ant.	Cor	Correction Factors			Lin	nit
Frequency (脈)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	ı		-	-	-	-

B. Middle Channel (5 220 Mb)

D. Miladic Oi	101111C1 (0 220	miz)							
Radi	ated Emissio	ns	Ant.	Correction Factors			Total	Limit	
Frequency (脈)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 240 Mb)

	<u> </u>	/							
Radi	ated Emissio	ns	Ant.	Cor	Correction Factors			Limit	
Frequency	Reading	Detect	Pol.	AF	AMP+CL	DF	Actual	Limit	Margin
(MHz)	(dBμV)	Mode	. 0	(dB/m)	(dB)	(dB)	(dBμV/ m)	(dBμV/m)	(dB)
Above	Not								
1 000.00	detected	_	-	_	_	_	-	-	-



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OFDM: 802.11n_HT20 (MCS0) Band 2A_ANT 1+ANT 2

A. Low Channel (5 260 账)

Radi	ated Emissio	ns	Ant.	Correction Factors		Total	Limit		
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

B. Middle Channel (5 300 Mb)

Radi	ated Emissio	ns	Ant.	Correction Factors			Total	Lin	nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBuV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 320 Mb)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
*5 350.00	43.58	Peak	V	33.70	-22.16	-	55.12	74.00	18.88
*5 350.00	36.46	Average	V	33.70	-22.16	0.22	48.22	54.00	5.78
*5 367.60	46.36	Peak	V	33.66	-22.21	ı	57.81	74.00	16.19
*5 376.80	35.77	Average	V	33.65	-22.24	0.22	47.40	54.00	6.60
*5 460.00	43.08	Peak	V	33.74	-21.97	-	54.85	74.00	19.15
*5 460.00	34.12	Average	V	33.74	-21.97	0.22	46.11	54.00	7.89

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (畑)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



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OFDM: 802.11n_HT20 (MCS0) Band 2C_ANT 1+ANT 2

A. Low Channel (5 500 账)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (脈)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
*5 350.00	42.38	Peak	V	33.70	-22.16	-	53.92	74.00	20.08
*5 350.00	34.14	Average	V	33.70	-22.16	0.22	45.90	54.00	8.10
*5 457.42	46.96	Peak	V	33.73	-21.97	-	58.72	74.00	15.28
*5 442.24	36.10	Average	V	33.68	-22.01	0.22	47.99	54.00	6.01
*5 460.00	44.99	Peak	V	33.74	-21.97	-	56.76	74.00	17.24
*5 460.00	36.37	Average	V	33.74	-21.97	0.22	48.36	54.00	5.64

Radi	ated Emissio	ns	Ant.	Cor	Correction Factors			Lin	nit
Frequency (脈)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-		-		-	-	-

B. Middle Channel (5 580 账)

Radi	ated Emissio	ns	Ant.	Cor	Correction Factors			Lin	nit
Frequency (Mb)	Reading (dΒμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 700 Mb)

• g •	riight Grisamier (Grisa Maz)										
Radi	ated Emissio	ns	Ant.	Cor	Correction Factors		Total	Limit			
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)		
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-		



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OFDM: 802.11n_HT20 (MCS0) Band 3_ANT 1+ANT 2

A. Low Channel (5 745 账)

Radi	ated Emissio	ns	Ant.	Correction	on Factors	Total	Lin	nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5635.70	45.30	Peak	V	33.70	-21.88	57.12	68.23	11.11
5692.31	46.80	Peak	V	33.87	-21.64	59.03	99.54	40.51
5720.00	47.59	Peak	٧	33.90	-21.67	59.82	110.83	51.01
5725.00	55.94	Peak	V	33.90	-21.68	68.16	122.23	54.07

Radi	ated Emissio	ns	Ant.	Cor	Correction Factors		Total	Lin	nit
Frequency	Reading	Detect	Pol.	AF	AMP+CL	DF	Actual	Limit	Margin
(MHz)	(dBμV)	Mode	1 01.	(dB/m)	(dB)	(dB)	(dBμV/ m)	(dBμV/m)	(dB)
Above	Not	-	-	-	-	-	-	-	-
1 000.00	detected	-	_	_	_	_	-	_	

B. Middle Channel (5 785 账)

Radi	ated Emissio	ns	Ant.	Cor	Correction Factors		Total	Lin	nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

C. High Channel (5 825 Mb)

Radi	ated Emissio	ns	Ant.	Correction	on Factors	Total Lim		nit
Frequency (脈)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5851.21	46.15	Peak	V	34.01	-21.50	58.66	119.47	60.81
5861.75	46.26	Peak	٧	34.07	-21.43	58.90	108.94	50.04
5881.20	46.14	Peak	٧	34.19	-21.29	59.04	100.64	41.60
5941.21	45.27	Peak	V	34.38	-21.26	58.39	68.23	9.84

Radi	ated Emissio	ns	Ant.	Cor	Correction Factors			Lin	nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



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OFDM: 802.11n_HT40 (MCS0) Band 1_ANT 1+ANT 2

A. Low Channel (5 190 账)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (脈)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
*4 500.00	43.82	Peak	V	31.80	-23.35	1	52.27	74.00	21.73
*4 500.00	34.84	Average	V	31.80	-23.35	0.44	43.73	54.00	10.27
*5 135.62	48.57	Peak	V	33.30	-22.55	-	59.32	74.00	14.68
*5 020.96	35.10	Average	V	32.98	-22.67	0.44	45.85	54.00	8.15
*5 150.00	47.91	Peak	V	33.30	-22.58	-	58.63	74.00	15.37
*5 150.00	36.43	Average	V	33.30	-22.58	0.44	47.59	54.00	6.41

Radi	ated Emissio	ns	Ant.	Cor	Correction Factors			Lin	nit
Frequency (脈)	Reading (dΒμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

B. High Channel (5 230 Mb)

Radi	ated Emissio	ns	Ant.	Cor	Correction Factors			Lin	nit
Frequency (畑)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



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OFDM: 802.11n_HT40 (MCS0) Band 2A_ANT 1+ANT 2

A. Low Channel (5 270 Mb)

Radi	ated Emissio	ns	Ant.	Cor	Correction Factors			Limit	
Frequency	Reading	Detect	Pol.	AF	AMP+CL	DF	Actual	Limit	Margin
(MHz)	(dBμV)	Mode		(dB/m)	(dB)	(dB)	(dBμV/ m)	(dBμV/ m)	(dB)
Above	Not								
1 000.00	detected	-	_	-	-	_	-	-	-

B. High Channel (5 310 账)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (脈)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
*5 350.00	47.27	Peak	V	33.70	-22.16	-	58.81	74.00	15.19
*5 350.00	37.92	Average	V	33.70	-22.16	0.44	49.90	54.00	4.10
*5 355.40	56.00	Peak	V	33.69	-22.18	ı	67.51	74.00	6.49
*5 356.60	36.72	Average	V	33.69	-22.18	0.44	48.67	54.00	5.33
*5 460.00	43.87	Peak	V	33.74	-21.97		55.64	74.00	18.36
*5 460.00	33.48	Average	V	33.74	-21.97	0.44	45.69	54.00	8.31

Radiated Emissions		Ant.	Correction Factors			Total	Lin	nit	
Frequency (畑)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



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OFDM: 802.11n_HT40 (MCS0) Band 2C_ANT 1+ANT 2

A. Low Channel (5 510 账)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (脈)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
*5 350.00	43.24	Peak	V	33.70	-22.16	-	54.78	74.00	19.22
*5 350.00	33.53	Average	V	33.70	-22.16	0.44	45.51	54.00	8.49
*5 458.52	57.33	Peak	V	33.73	-21.97	-	69.09	74.00	4.91
*5 450.60	36.19	Average	V	33.70	-21.96	0.44	48.37	54.00	5.63
*5 460.00	46.20	Peak	V	33.74	-21.97	-	57.97	74.00	16.03
*5 460.00	36.87	Average	V	33.74	-21.97	0.44	49.08	54.00	4.92

Radi	Radiated Emissions		Ant.	Cor	Correction Factors			Lin	nit
Frequency (脈)	Reading ($dB\mu V$)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	•	-	1	-	ı	1	-	-

B. Middle Channel (5 550 Mb)

Radiated Emissions		Ant.	Correction Factors			Total	Lin	nit			
Frequency (Mb)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB#V/m)	Limit (dBuV/m)	Margin (dB)		
Above	Not			(uzi i i j	(uz)	(ub)	(αΣμπτη	(αΣριτιι)	(42)		
1 000.00	detected	-	-	-	-	-	-	-	-		

C. High Channel (5 670 Mb)

Radi	Radiated Emissions		Ant.	Correction Factors			Total	Lin	nit		
Frequency (脈)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)		
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-		



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OFDM: 802.11n_HT40 (MCS0) Band 3_ANT 1+ANT 2

A. Low Channel (5 755 Mb)

Radi	ated Emissio	ns	Ant.	Correction	on Factors	Total	Lin	Limit	
Frequency (脈)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
5 647.26	51.35	Peak	V	33.70	-21.92	63.13	68.23	5.10	
5 697.92	54.56	Peak	٧	33.89	-21.60	66.85	103.69	36.84	
5 716.26	56.98	Peak	٧	33.90	-21.65	69.23	109.78	40.55	
5 723.25	59.23	Peak	٧	33.90	-21.68	71.45	118.24	46.79	

Radi	Radiated Emissions		Ant.	Cor	Correction Factors			Lin	nit
Frequency (脈)	Reading (dBµV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected		-	ı	-	ı	1	-	-

B. High Channel (5 795 Mb)

Radi	ated Emissio	ns	Ant.	Correction	on Factors	Total	Lin	Limit	
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)	
5 850.22	53.64	Peak	V	34.00	-21.51	66.13	121.73	55.60	
5 856.80	54.06	Peak	V	34.04	-21.46	66.64	110.32	43.68	
5 876.75	51.15	Peak	V	34.16	-21.32	63.99	103.93	39.94	
5 937.91	49.56	Peak	V	34.38	-21.25	62.69	68.23	5.54	

Frequency Readin			Correction Factors					nit
(MHz) (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above Not	-	-	-	-	-	-	-	- -



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OFDM: 802.11ac_VHT80 (MCS0) Band 1_ANT 1+ANT 2

A. Low Channel (5 210 账)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Lin	nit
Frequency (脈)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
*4 500.00	43.39	Peak	V	31.80	-23.35	-	51.84	74.00	22.16
*4 500.00	33.70	Average	V	31.80	-23.35	0.86	43.01	54.00	10.99
*5 129.38	47.34	Peak	V	33.30	-22.54	ı	58.10	74.00	15.90
*5 135.62	36.51	Average	V	33.30	-22.55	0.86	48.12	54.00	5.88
*5 150.00	46.36	Peak	V	33.30	-22.58	-	57.08	74.00	16.92
*5 150.00	37.88	Average	V	33.30	-22.58	0.86	49.46	54.00	4.54

Radi	Radiated Emissions		Ant.	Cor	Correction Factors			Lin	nit
Frequency (脈)	Reading (dΒμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



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OFDM: 802.11ac_VHT80 (MCS0) Band 2A_ANT 1+ANT 2

A. Middle Channel (5 290 Mb)

Radi	ated Emissio	ns	Ant.	Cor	rection Fac	tors	Total	Total Limit	
Frequency (脈)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
*5 350.00	45.87	Peak	V	33.70	-22.16	-	57.41	74.00	16.59
*5 350.00	37.08	Average	V	33.70	-22.16	0.86	49.48	54.00	4.52
*5 371.40	47.06	Peak	V	33.66	-22.22	-	58.50	74.00	15.50
*5 364.40	36.54	Average	V	33.67	-22.20	0.86	48.87	54.00	5.13
*5 460.00	43.30	Peak	V	33.74	-21.97	-	55.07	74.00	18.93
*5 460.00	33.55	Average	V	33.74	-21.97	0.86	46.18	54.00	7.82

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (脈)	Reading (dΒμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



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OFDM: 802.11ac_VHT80 (MCS0) Band 2C_ANT 1+ANT 2

A. Low Channel (5 530 Mb)

Radi	Ant.	Cor	rection Fac	tors	Total Limit				
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
*5 350.00	43.29	Peak	V	33.70	-22.16	-	54.83	74.00	19.17
*5 350.00	33.75	Average	V	33.70	-22.16	0.86	46.15	54.00	7.85
*5 455.00	46.24	Peak	V	33.72	-21.97	ı	57.99	74.00	16.01
*5 455.00	35.75	Average	V	33.72	-21.97	0.86	48.36	54.00	5.64
*5 460.00	43.90	Peak	V	33.74	-21.97	-	55.67	74.00	18.33
*5 460.00	35.47	Average	V	33.74	-21.97	0.86	48.10	54.00	5.90

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (脈)	Reading (dΒμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-

B. High Channel (5 690 Mb)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dΒμV/m)	Limit (dBµV/m)	Margin (dB)
Above 1 000.00	Not detected	-	-	-	-	-	-	-	-



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OFDM: 802.11ac_VHT80 (MCS0) Band 3_ANT 1+ANT 2

A. Middle Channel (5 775 Mb)

Radi	ated Emissio	ns	Ant.	Correction	on Factors	Total Limit		nit
Frequency (Mb)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Actual (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5 642.67	46.05	Peak	V	33.70	-21.91	57.84	68.23	10.39
5 679.39	47.56	Peak	V	33.82	-21.73	59.65	89.98	30.33
5 710.31	46.65	Peak	V	33.90	-21.63	58.92	108.11	49.19
5 724.10	52.83	Peak	V	33.90	-21.68	65.05	120.18	55.13
5 852.80	45.15	Peak	V	34.02	-21.49	57.68	115.84	58.16
5 860.32	46.35	Peak	V	34.06	-21.44	58.97	109.34	50.37
5 911.76	46.27	Peak	V	34.32	-21.19	59.40	78.03	18.63
5 966.11	46.32	Peak	V	34.40	-21.29	59.43	68.41	8.98

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency	Reading	Detect	Dal	AF	AMP+CL	DF	Actual	Limit	Margin
(MHz)	(dBμV)	Mode	Pol.	(dB/m)	(dB)	(dB)	(dB <i>µ</i> V/ m)	(dBμV/m)	(dB)
Above	Not								
1 000.00	detected	_	_	-	-	_	-	-	-

Remark;

- 1. "*" means the restricted band.
- 2. Radiated emissions measured in frequency above 1 000 Mb were made with an instrument using Peak / average detector mode if frequency was in restricted band. Otherwise the frequency was out of restricted band, only peak detector should be used.
- 3. Actual = Reading + AF + AMP + CL + (DF)
- 4. If frequency was out of restricted band, the calculation method for peak limit is same as below. 68.23 $dB\mu V/m = EIRP 20 \log(d) + 104.77 = -27 20 \log(3) + 104.77$
- 5. In case of the emissions within $\pm 75 \text{ Mz}$ from band edge of band 3, limit should be adjusted to emission mask of 15.407(4)(i).
- 6. According to § 15.31(o), emission levels are not reported much lower than the limits by over 20 dB.
- 7. The maximized peak measured value complies with the average limit, to perform an average measurement is unnecessary.

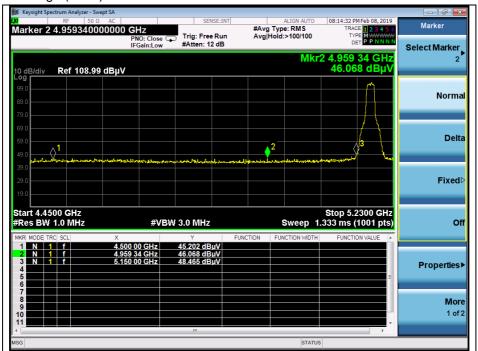


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- Test plots

OFDM: 802.11a (6 Mbps)_ANT 1+ANT 2

Low channel Band edge (Peak) - Band 1



Low channel Band edge (Average) - Band 1



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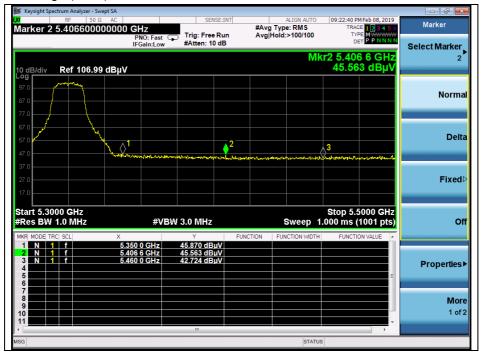
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A4(210 mm × 297 mm)



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High channel Band edge (Peak) - Band 2A



High channel Band edge (Average) - Band 2A



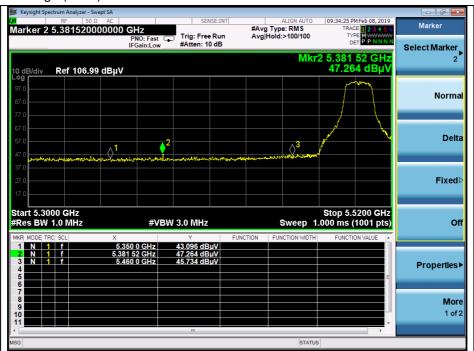
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Low channel Band edge (Peak) - Band 2C



Low channel Band edge (Average) - Band 2C





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Low channel Band edge (Peak) - Band 3



High channel Band edge (Peak) - Band 3



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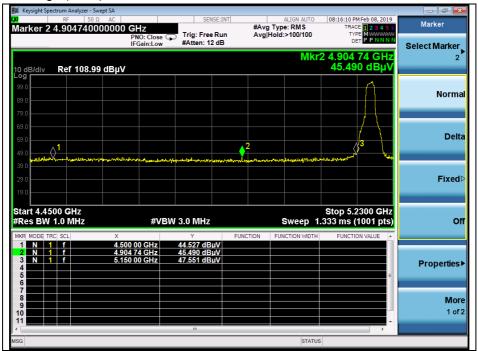
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OFDM: 802.11n_HT20 (MCS0)_ANT 1+ANT 2

Low channel Band edge (Peak) - Band 1



Low channel Band edge (Average) - Band 1

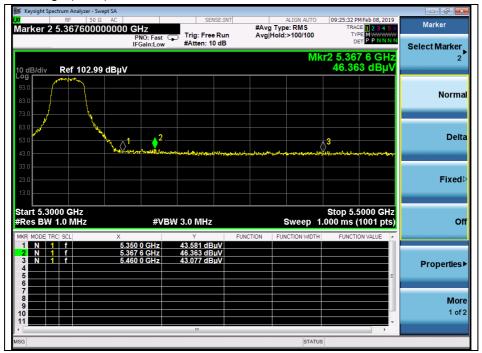


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High channel Band edge (Peak) - Band 2A



High channel Band edge (Average) - Band 2A

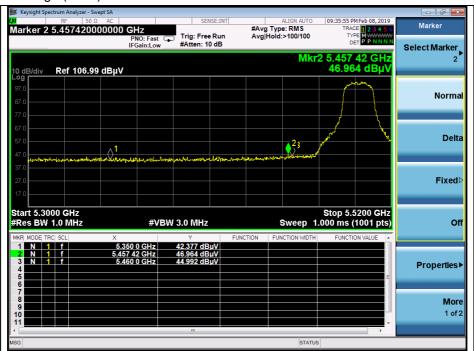


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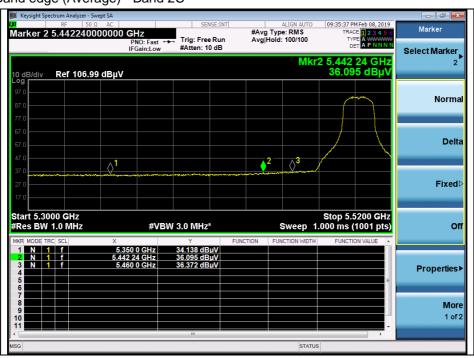


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Low channel Band edge (Peak) - Band 2C



Low channel Band edge (Average) - Band 2C



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Low channel Band edge (Peak) - Band 3



High channel Band edge (Peak) - Band 3



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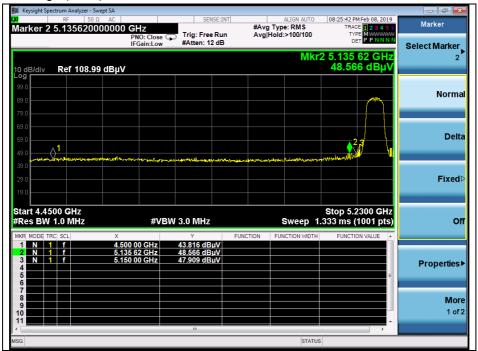
A4(210 mm × 297 mm)



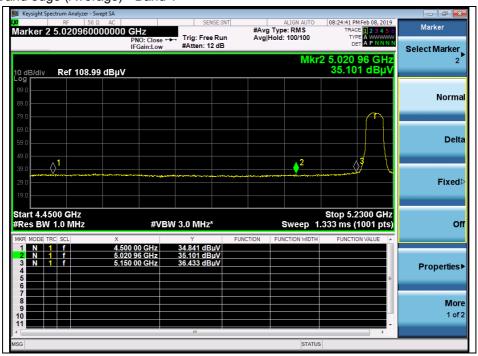
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OFDM: 802.11n_HT40 (MCS0)_ANT 1+ANT 2

Low channel Band edge (Peak) - Band 1



Low channel Band edge (Average) - Band 1

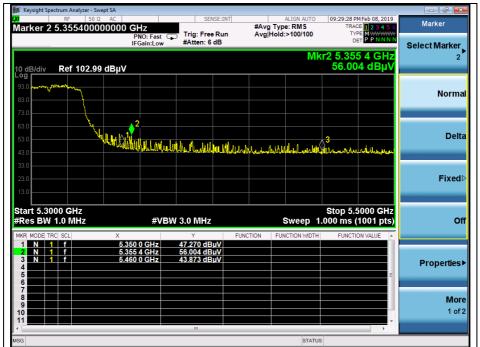


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High channel Band edge (Peak) - Band 2A



High channel Band edge (Average) - Band 2A

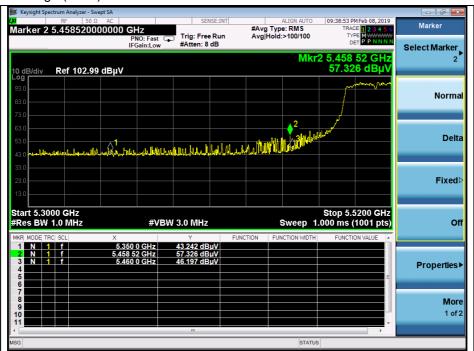


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Low channel Band edge (Peak) - Band 2C



Low channel Band edge (Average) - Band 2C

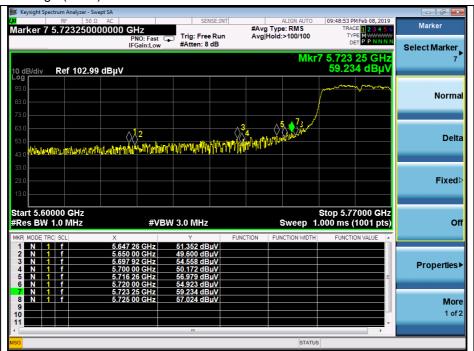


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Low channel Band edge (Peak) - Band 3



High channel Band edge (Peak) - Band 3

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A4(210 mm × 297 mm)



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OFDM: 802.11ac_VHT80 (MCS0)_ANT 1+ANT 2

Middle channel Band edge (Peak) - Band 1



Middle channel Band edge (Average) - Band 1



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Middle channel Band edge (Peak) - Band 2A



Middle channel Band edge (Average) - Band 2A



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Low channel Band edge (Peak) - Band 2C



Low channel Band edge (Average) - Band 2C



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Low channel Band edge (Peak) - Band 3



High channel Band edge (Peak) - Band 3



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