





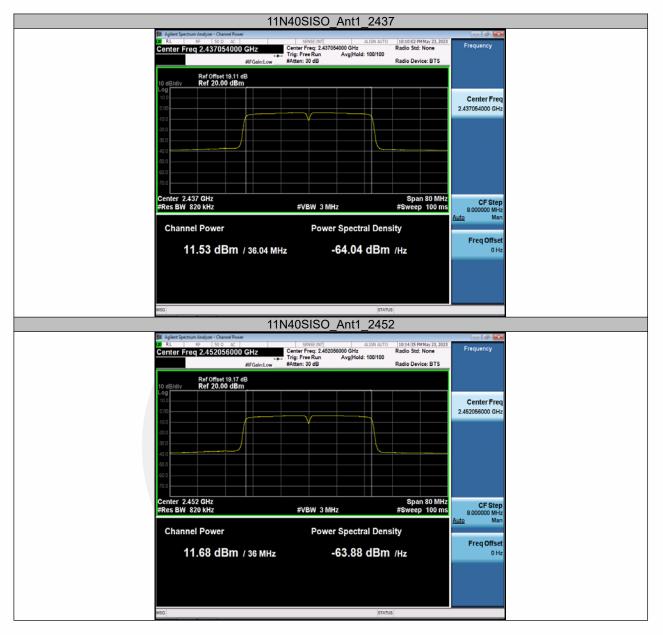


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Access to the World





8.4 MAXIMUM POWER SPECTRAL DENSITY

8.4.1 Applicable Standard

According to FCC Part15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 According to RSS-247, 5.2(b) and RSS-Gen6.12

8.4.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

8.4.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.4.4 Test Procedure

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance

The transmitter output (antenna port) was connected to the spectrum analyzer Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz

Set the VBW to:10 kHz.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

8.4.5 Test Results

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A

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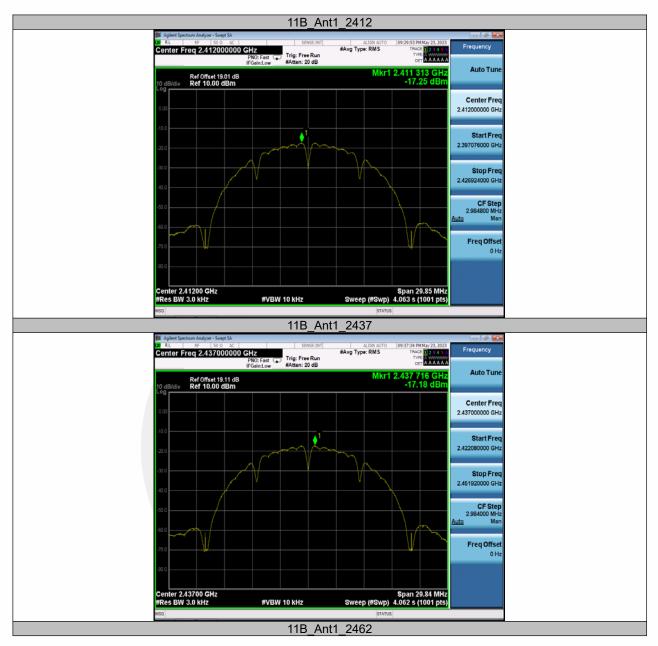
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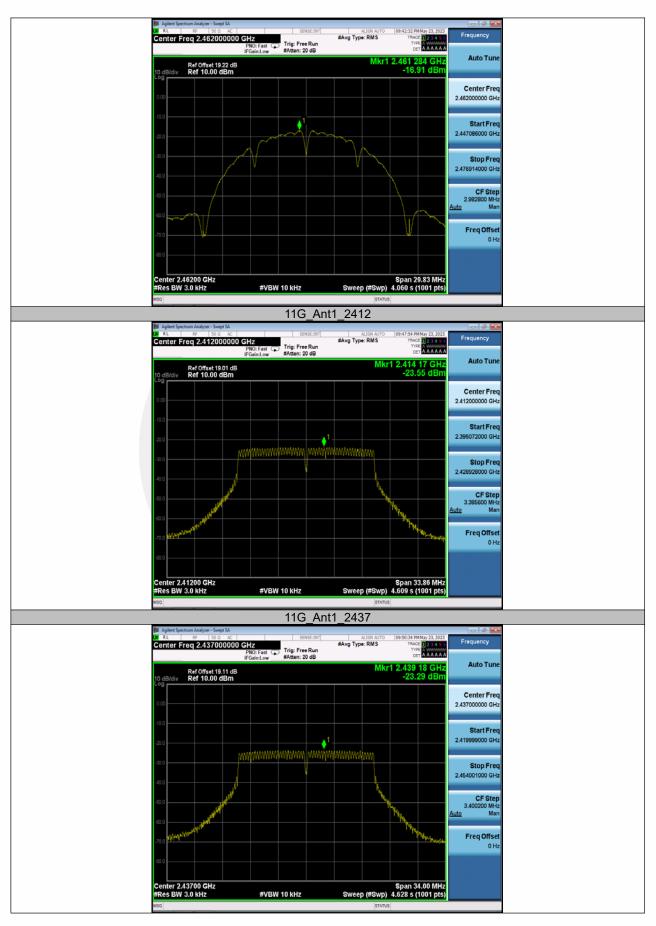
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
		2412	-17.25	≤8.00	PASS
11B	Ant1	2437	-17.18	≤8.00	PASS
		2462	-16.91	≤8.00	PASS
		2412	-23.55	≤8.00	PASS
11G	Ant1	2437	-23.29	≤8.00	PASS
		2462	-23.13	≤8.00	PASS
		2412	-24.02	≤8.00	PASS
11N20SISO	Ant1	2437	-23.79	≤8.00	PASS
		2462	-23.51	≤8.00	PASS
		2422	-27.1	≤8.00	PASS
11N40SISO	Ant1	2437	-27.12	≤8.00	PASS
		2452	-26.88	≤8.00	PASS



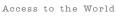


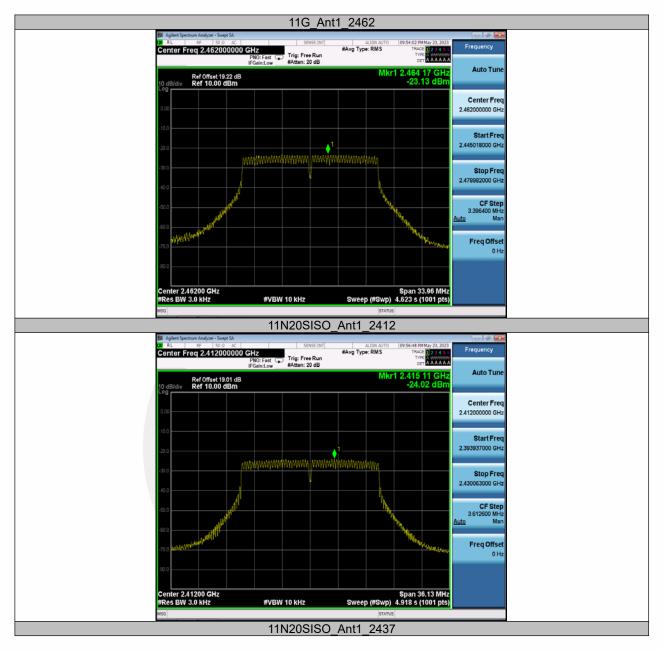




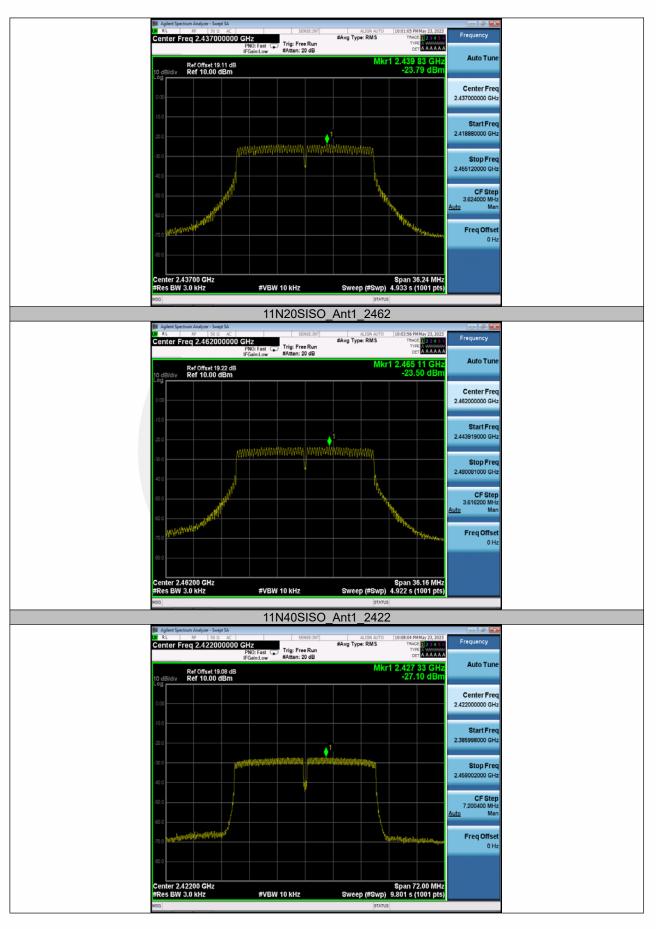






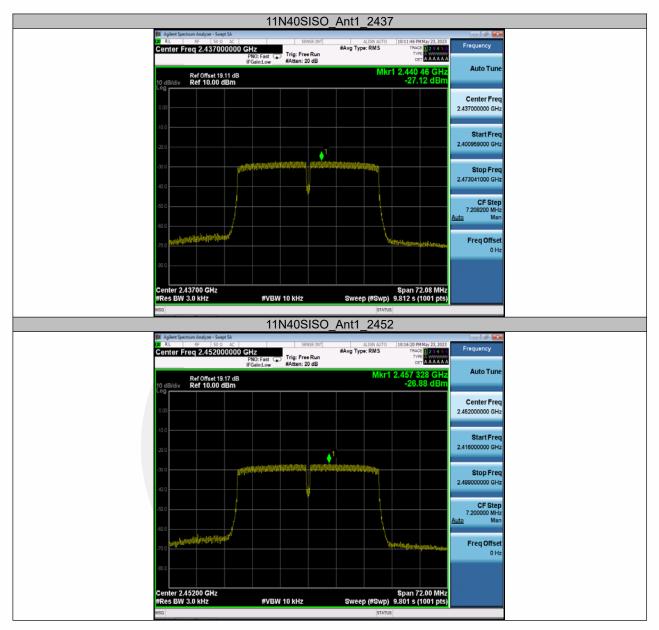














8.5 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

8.5.1 Applicable Standard

According to FCC Part15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 According to RSS-247, 5.5

8.5.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted undersection 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

8.5.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.5.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to \geq 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW \ge 3 x RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Band-edge measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation Set RBW $\ge 1\%$ of the span=100kHz Set VBW $\ge 3 \times RBW$

Set Sweep = autoSet Detector function = peakSet Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this Section.

Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW =300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold. Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

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



8.5.5 Test Results

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A

All theantenna(Antenna 1)and modes(802.11b/g/n)have been tested and the worst(Antenna 1,802.11b) resultrecorded was report as below:





Reference level measurement

TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
	11B Ant1	2412	2411.50	5.96
11B		2437	2436.51	6.03
		2462	2461.51	6.29

Band edge measurements

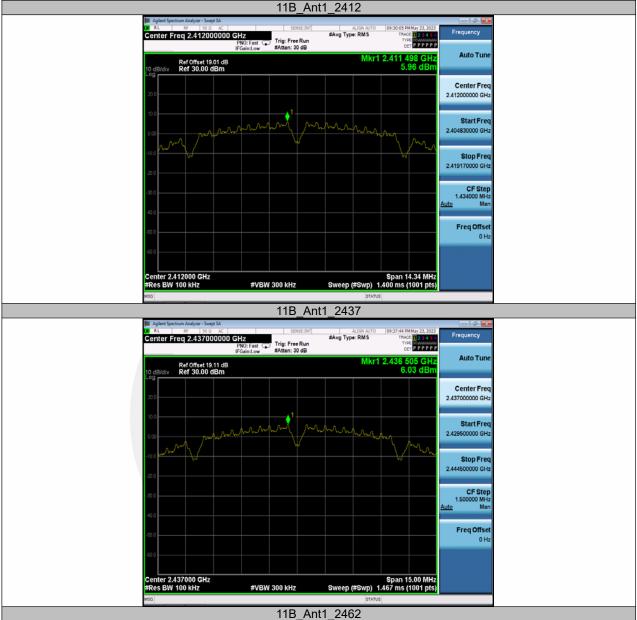
TestMod	Antenn	ChNam	Frequency[MI	Iz RefLevel[dBm	Result[dBm	Limit[dBm	Verdic
е	а	е]]]]	t
110	Apt1	Low	2412	5.96	-32.83	≤-24.04	PASS
ПВ	11B Ant1 High 246		2462	6.29	-34.81	≤-23.71	PASS

Conducted Spurious Emission

TeatMada	Antonno		FreqRange	RefLevel	Result	Limit	Verdict
TestMode Antenna	Frequency[MHz]	[Mhz]	[dBm]	[dBm]	[dBm]	verdict	
		2412	30~1000	5.96	-56.17	≤-24.04	PASS
11B Ant1	2412	1000~26500	5.96	-49.14	≤-24.04	PASS	
	2437	30~1000	6.03	-59.56	≤-23.97	PASS	
		1000~26500	6.03	-50.74	≤-23.97	PASS	
		2462	30~1000	6.29	-59.13	≤-23.71	PASS
			1000~26500	6.29	-51.68	≤-23.71	PASS



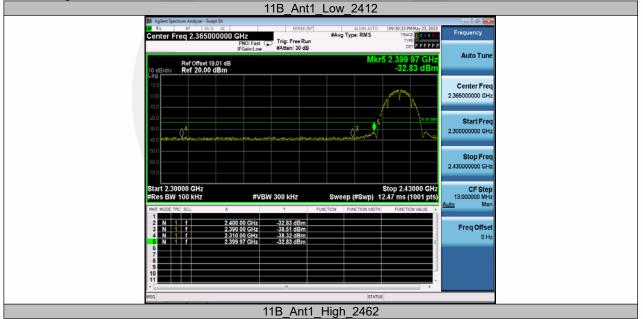




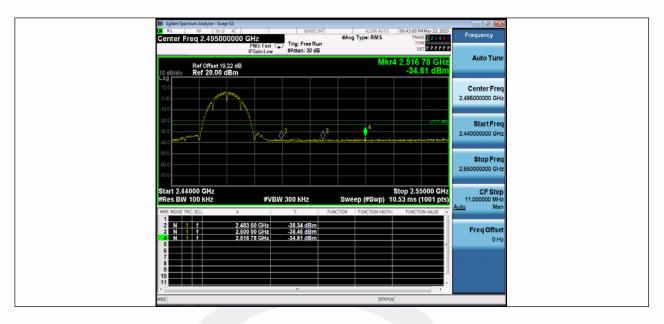




Band edge measurements

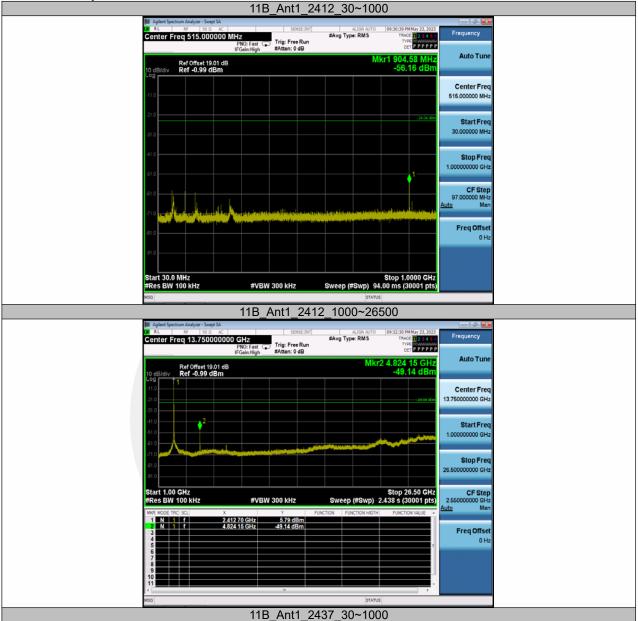


















	111	B Ant1 2462	1000~265	500		
CO RI	ter Freg 13.750000000 GHz	SENSE:INT	ALIGN AUTO #Avg Type: RMS	09:45:07 PM May 23, 2023 TRACE 2 3 4 5 0 TYPE	Frequency	
10 d	PNO: Fa IFGein:Hi Ref Offset 19.22 dB B/div Ref -0.78 dBm	igh #Atten: 0 dB	Mkr2	24.903 70 GHz -51.68 dBm	Auto Tune	
-108 -208				-2) 7t din	Center Freq 13.75000000 GHz	
-30.8 -40.8 -50.8				2	Start Freq 1.00000000 GHz	
60.8 -70.9 60.9					Stop Freq 26.50000000 GHz	
	rt 1.00 GHz rs BW 100 kHz #	VBW 300 kHz	Sweep (#Swp) 2	Stop 26.50 GHz .438 s (30001 pts)	CF Step 2.55000000 GHz Auto Man	
1	MODEL TRCI SCL X N 1 f 2.462 85 GH N 1 f 24.903 70 GH;	z 6.08 dBm	TION FUNCTION WIDTH	FUNCTION VALUE	Freq Offset 0 Hz	
8 9 10 11 1 1			STATUS			



8.6 RADIATED SPURIOUS EMISSION

8.6.1 Applicable Standard

According to FCC Part 15.247(d),15.205, 15.209 and KDB 558074 D01 15.247 Meas Guidancev05r02 According to IC RSS-Gen and RSS-247

8.6.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205. Restricted bands

MHz	MHz	MHz	GHz					
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15					
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46					
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75					
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5					
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2					
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5					
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7					
6.26775-6.26825	123-138	2200-2300	14.47-14.5					
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2					
8.362-8.366	156.52475-156.52525 2483.5-2500		17.7-21.4					
8.37625-8.38675	7625-8.38675 156.7-156.9 2690-2900		22.01-23.12					
8.41425-8.41475	162.0125-167.17 3260-3267		23.6-24.0					
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8					
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5					
12.57675-12.57725	322-335.4	3600-4400	(2)					
13.36-13.41								

According toFCC Part15.205the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted	Field Strength (µV/m)	Field Strength	Measurement					
Frequency(MHz)		(dBµV/m)	Distance					
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300					
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30					
1.705-30	30	29.5	30					
30-88	100	40	3					
88-216	150	43.5	3					
216-960	200	46	3					
Above 960	500	54	3					

8.6.3 Test Configuration

Test according to clause 6.2 radio frequency test setup

8.6.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz VBW ≥ RBW Sweep = auto Detector function = peak

Trace = max hold

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For Below 1GHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 100 kHz for $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold For Below 30MHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 9kHz $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold For Below 150KHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 200Hz $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold

Follow the guidelines in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit. Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.6.5 Test Results

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

■ Spurious Emission below 30MHz(9KHz to 30MHz)

Freq.	Ant.Pol. Emission Level(dBuV/m)		Limit 3m	(dBuV/m)	Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

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■ Spurious Emission Above 1GHz(1GHz to 25GHz)

All theantenna(Antenna 1)and modes(802.11b/g/n)have been tested and the worst(Antenna 1,802.11b) resultrecorded was report as below:

802.	11b Freque		ency:	Channel 1: 2412MHz			
Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)		
H/V	PK	AV	PK	AV	PK	AV	
V	60.09	42.61	74.00	54.00	13.91	11.39	
V	63.39	45.17	74.00	54.00	10.61	8.83	
V	69.72	47.85	74.00	54.00	4.28	6.15	
Н	60.47	42.62	74.00	54.00	13.53	11.38	
Н	63.96	46.26	74.00	54.00	10.04	7.74	
Н	69.78	47.54	74.00	54.00	4.22	6.46	
	Ant.Pol. H/V V V V H H	Ant.Pol. Level(d H/V PK V 60.09 V 63.39 V 69.72 H 60.47 H 63.96	Ant.Pol. Emission Level(dBuV/m) H/V PK AV V 60.09 42.61 V 63.39 45.17 V 69.72 47.85 H 60.47 42.62 H 63.96 46.26	Ant.Pol. Emission Level(dBuV/m) Limit 3m(Minit 3m(Ant.Pol. H/V PK AV PK V 60.09 42.61 74.00 V 63.39 45.17 74.00 V 69.72 47.85 74.00 H 60.47 42.62 74.00 H 63.96 46.26 74.00	Ant.Pol. Emission Level(dBuV/m) Limit 3m(dBuV/m) H/V PK AV PK AV V 60.09 42.61 74.00 54.00 V 63.39 45.17 74.00 54.00 V 69.72 47.85 74.00 54.00 H 60.47 42.62 74.00 54.00 H 63.96 46.26 74.00 54.00	Ant.Pol. Emission Level(dBuV/m) Limit 3m(dBuV/m) Over H/V PK AV PK AV PK V 60.09 42.61 74.00 54.00 13.91 V 63.39 45.17 74.00 54.00 10.61 V 69.72 47.85 74.00 54.00 13.53 H 60.47 42.62 74.00 54.00 13.53 H 63.96 46.26 74.00 54.00 10.04	

Test mode: 802.11b

Frequency:

ency: (

Channel 6: 2437MHz

Freq. (MHz)			ssion BuV/m)	Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
11349.3	V	59.97	42.59	74.00	54.00	14.03	11.41
14626.8	V	63.62	45.90	74.00	54.00	10.38	8.10
17610	V	70.08	47.56	74.00	54.00	3.92	6.44
11313.7	Н	60.02	42.55	74.00	54.00	13.98	11.45
14705.6	Н	63.84	44.28	74.00	54.00	10.16	9.72
17602.5	Н	69.44	47.48	74.00	54.00	4.56	6.52

Test mode: 802.11b Frequency: Channel 11: 2462MHz

Freq.	Ant.Pol.		ssion BuV/m)	Limit 3m((dBuV/m)	Over(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV	
11503.1	V	59.84	43.09	74.00	54.00	14.16	10.91	
14623.1	V	63.86	46.37	74.00	54.00	10.14	7.63	
17626.8	V	69.43	47.38	74.00	54.00	4.57	6.62	
11422.5	Н	59.97	42.24	74.00	54.00	14.03	11.76	
14574.3	Н	63.59	45.65	74.00	54.00	10.41	8.35	
17613.7	Н	69.27	47.72	74.00	54.00	4.73	6.28	

Note:

(1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant_F + Cab_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz All the antenna(Antenna 1) and modes(802.11b/g/n) have been tested and the worst(Antenna 1,802.11b) resultrecorded was report as below:

Test mode:	802.11b	Frequ	ency: (Channel 1: 2412MI	Hz
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2389.97	Н	51.06	74.00	37.34	54.00
2389.62	V	48.71	74.00	34.25	54.00

Test mode:	802.11b	Freque	ency: C	hannel 11: 2462MH	Z
Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2483.56	Н	46.21	74.00	34.76	54.00
2484.02	V	47.40	74.00	35.82	54.00

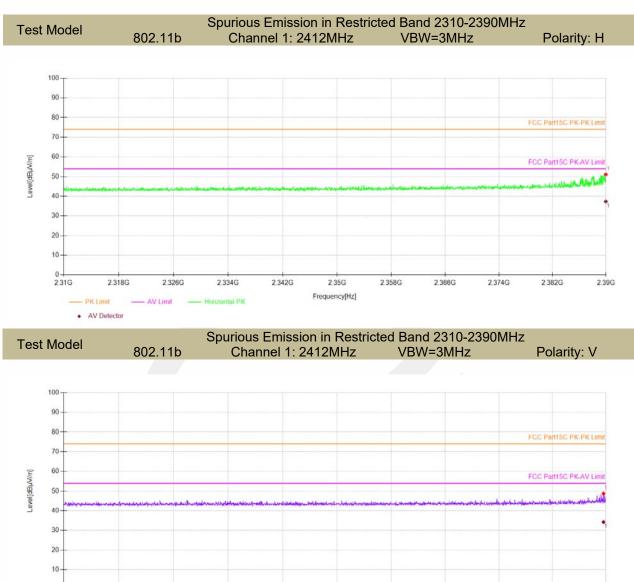
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Correct Factor.

(3) Correct Factor= Ant_F + Cab_L - Preamp

(4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.





0-2.31G

2.318G

- PK Limit

AV Detector

2.326G

- AV Limit

2.334G

---- Vertical PK

2.342G

2.35G

Frequency[Hz]

2.358G

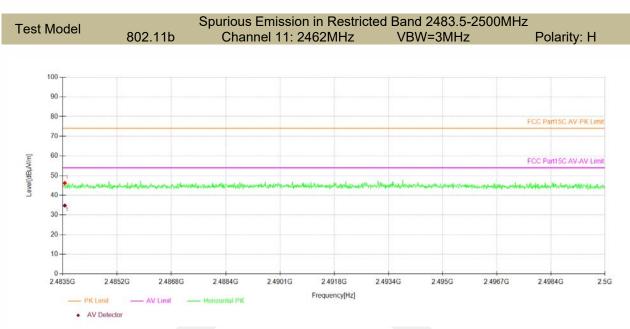
2.366G

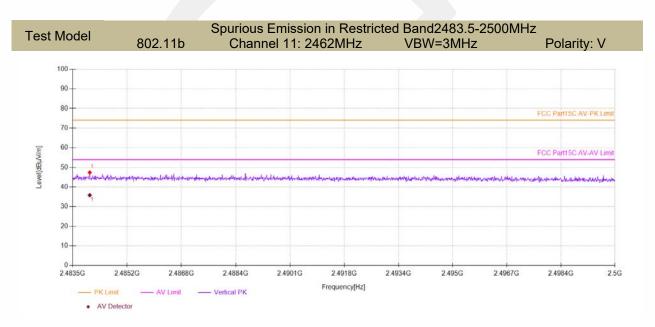
2.374G

2.382G

2.39G



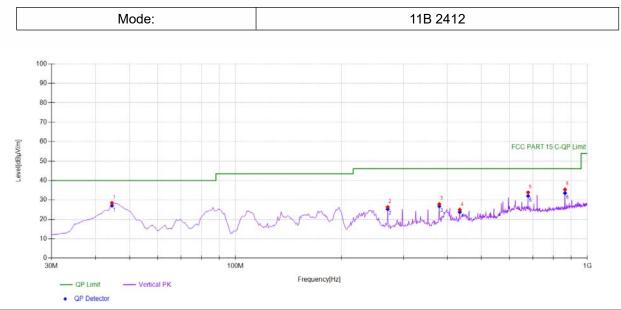






■ Spurious Emission below 1GHz (30MHz to 1GHz)

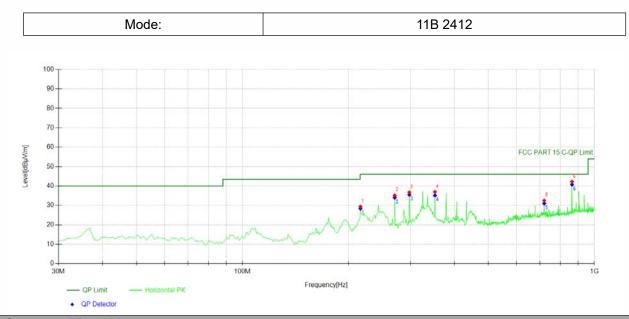
All the antenna(Antenna 1) and modes(802.11b/g/n) have been tested and the worst(Antenna 1,802.11b) resultrecorded was report as below:



Suspe	Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]		Limit [dBµV/m]	Margin [dB]	Polarity		
1	44.5646	46.00	-17.59	28.41	PK	40.00	11.59	Vertical		
2	270.800	41.01	-14.70	26.31	PK	46.00	19.69	Vertical		
3	379.549	39.64	-11.86	27.78	PK	46.00	18.22	Vertical		
4	433.923	36.28	-11.34	24.94	PK	46.00	21.06	Vertical		
5	678.608	39.97	-6.10	33.87	PK	46.00	12.13	Vertical		
6	864.064	39.04	-3.67	35.37	PK	46.00	10.63	Vertical		

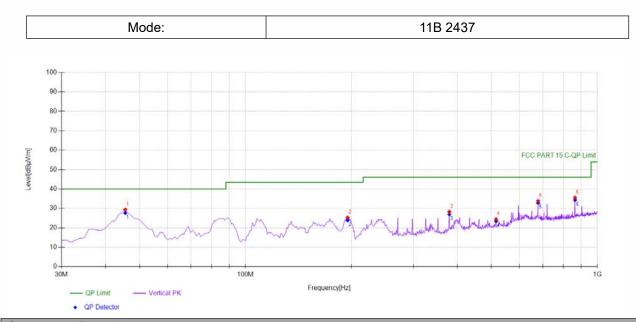
深圳信测标准技术服务股份有限公司 地址:广东省深圳市南山区马家龙工业区69栋 网址:Http://www.emtek.com.cn 邮箱:cs.rep@emtek.com.cn EMTEK (Shenzhen) Co., Ltd. Add: Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China Http://www.emtek.com.cn E-mail: cs.rep@emtek.com.cn





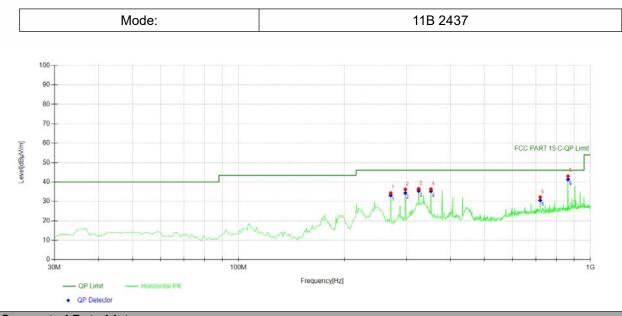
Suspe	Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity		
1	216.426	46.47	-17.11	29.36	PK	46.00	16.64	Horizontal		
2	270.800	49.87	-14.70	35.17	PK	46.00	10.83	Horizontal		
3	297.988	50.84	-14.14	36.70	PK	46.00	9.30	Horizontal		
4	352.362	50.42	-13.46	36.96	PK	46.00	9.04	Horizontal		
5	720.360	38.25	-5.81	32.44	PK	46.00	13.56	Horizontal		
6	864.064	45.89	-3.67	42.22	PK	46.00	3.78	Horizontal		





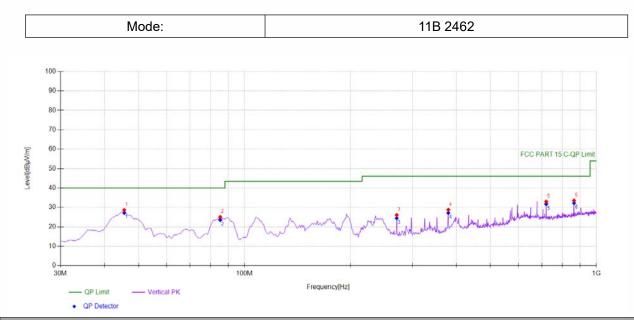
Suspe	Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity		
1	45.5355	46.92	-17.53	29.39	PK	40.00	10.61	Vertical		
2	195.065	42.68	-17.43	25.25	PK	43.50	18.25	Vertical		
3	379.549	40.13	-11.86	28.27	PK	46.00	17.73	Vertical		
4	515.485	34.18	-9.77	24.41	PK	46.00	21.59	Vertical		
5	678.608	39.92	-6.10	33.82	PK	46.00	12.18	Vertical		
6	864.064	39.19	-3.67	35.52	PK	46.00	10.48	Vertical		





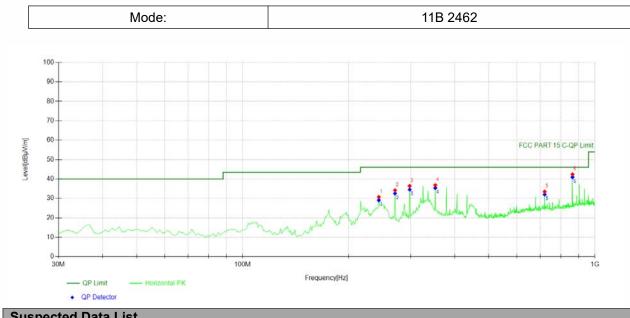
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity
1	270.800	49.01	-14.70	34.31	PK	46.00	11.69	Horizontal
2	297.988	50.31	-14.14	36.17	PK	46.00	9.83	Horizontal
3	325.175	50.37	-13.93	36.44	PK	46.00	9.56	Horizontal
4	352.362	49.75	-13.46	36.29	PK	46.00	9.71	Horizontal
5	720.360	37.99	-5.81	32.18	PK	46.00	13.82	Horizontal
6	864.064	46.63	-3.67	42.96	PK	46.00	3.04	Horizontal





Suspe	Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity		
1	45.5355	46.14	-17.53	28.61	PK	40.00	11.39	Vertical		
2	85.3453	45.26	-20.24	25.02	PK	40.00	14.98	Vertical		
3	270.800	40.76	-14.70	26.06	PK	46.00	19.94	Vertical		
4	379.549	40.60	-11.86	28.74	PK	46.00	17.26	Vertical		
5	720.360	38.78	-5.81	32.97	PK	46.00	13.03	Vertical		
6	864.064	37.18	-3.67	33.51	PK	46.00	12.49	Vertical		





Suspe	Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB/m]	Level [dBµV/m]	Detector	Limit [dBµV/m]	Margin [dB]	Polarity		
1	243.613	45.87	-15.18	30.69	PK	46.00	15.31	Horizontal		
2	270.800	48.90	-14.70	34.20	PK	46.00	11.80	Horizontal		
3	297.988	50.51	-14.14	36.37	PK	46.00	9.63	Horizontal		
4	352.362	50.30	-13.46	36.84	PK	46.00	9.16	Horizontal		
5	720.360	39.28	-5.81	33.47	PK	46.00	12.53	Horizontal		
6	864.064	46.08	-3.67	42.41	PK	46.00	3.59	Horizontal		



8.7 CONDUCTED EMISSION TEST

8.7.1 Applicable Standard

According to FCC Part 15.207(a) According to IC RSS-Gen 8.8

8.7.2 Conformance Limit

	Conducted Emission Limit	
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

8.7.3 Test Configuration

Test according to clause 6.3conducted emission test setup

8.7.4 Test Procedure

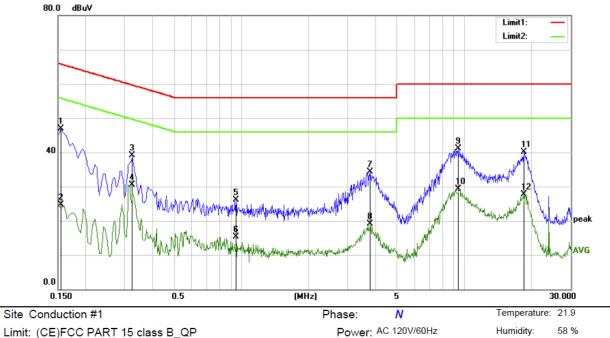
The EUT was placed on a table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Repeat above procedures until all frequency measured were complete.

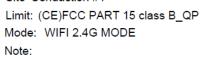
8.7.5 Test Results

Pass

The AC120V &240V voltage have been tested, and the worst result recorded was report as below:

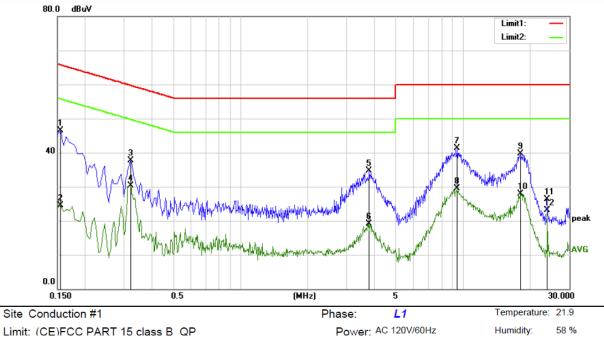






No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1550	37.40	9.53	46.93	65.73	-18.80	QP	
2		0.1550	15.19	9.53	24.72	55.73	-31.01	AVG	
3		0.3250	29.61	9.53	39.14	59.58	-20.44	QP	
4		0.3250	20.95	9.53	30.48	49.58	-19.10	AVG	
5		0.9450	16.47	9.55	26.02	56.00	-29.98	QP	
6		0.9450	5.66	9.55	15.21	46.00	-30.79	AVG	
7		3.7800	24.78	9.56	34.34	56.00	-21.66	QP	
8		3.7800	9.56	9.56	19.12	46.00	-26.88	AVG	
9		9.3800	31.36	9.68	41.04	60.00	-18.96	QP	
10		9.3800	19.69	9.68	29.37	50.00	-20.63	AVG	
11		18.4800	30.14	9.91	40.05	60.00	-19.95	QP	
12		18.4800	17.88	9.91	27.79	50.00	-22.21	AVG	





Limit: (CE)FCC PART 15 class B QP Mode: WIFI 2.4G MODE Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1550	37.05	9.53	46.58	65.73	-19.15	QP	
2		0.1550	14.92	9.53	24.45	55.73	-31.28	AVG	
3		0.3200	28.08	9.53	37.61	59.71	-22.10	QP	
4		0.3200	20.78	9.53	30.31	49.71	-19.40	AVG	
5		3.7900	25.21	9.56	34.77	56.00	-21.23	QP	
6		3.7900	9.50	9.56	19.06	46.00	-26.94	AVG	
7	*	9.4300	31.54	9.68	41.22	60.00	-18.78	QP	
8		9.4300	19.84	9.68	29.52	50.00	-20.48	AVG	
9		18.2050	29.88	9.91	39.79	60.00	-20.21	QP	
10		18.2050	18.04	9.91	27.95	50.00	-22.05	AVG	
11		23.9800	16.20	10.14	26.34	60.00	-33.66	QP	
12		23.9800	12.92	10.14	23.06	50.00	-26.94	AVG	



8.8 ANTENNA APPLICATION

8.8.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
FCC 47 CFR Part 15.247 (b)	If transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
RSS-Gen Section 6.8 RSS-247 Section 5.4	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list. If the transmitter employs an antenna system that emits multiple directional beams, but does not emit multiple directional beams simultaneously, the total output power conducted to the array or arrays that comprise the device (i.e. the sum of the power supplied to all antennas, antenna elements, staves, etc., and summed across all carriers or frequency channels) shall not exceed the applicable output power limit. However, the total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi. The directional antenna gain shall be computed as the sum of 10 log (number of array elements or staves) plus the directional gain of the element or stave having the
	highest gain.

8.8.2 Result

PASS.

- Note: Antenna use a permanently attached antenna which is not replaceable.
 - □ Not using a standard antenna jack or electrical connector for antenna replacement
 - □ The antenna has to be professionally installed (please provide method of installation)

Please refer to the attached documentInternal Photos to show the antenna connector.

*** End of Report ***

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