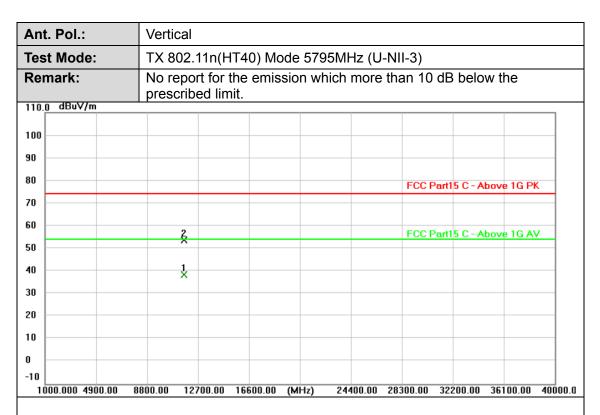


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	11589.652	38.71	15.11	53.82	74.00	-20.18	peak
2 *	11590.219	23.36	15.12	38.48	54.00	-15.52	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)			Detector	
1 *	11589.652	23.31	15.11	38.42	54.00	-15.58	AVG	
2	11590.457	38.78	15.12	53.90	74.00	-20.10	peak	

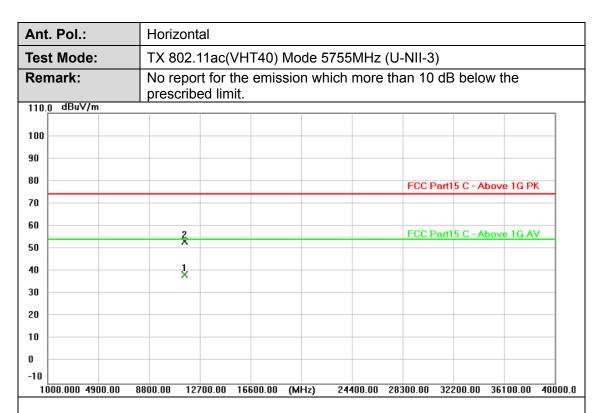
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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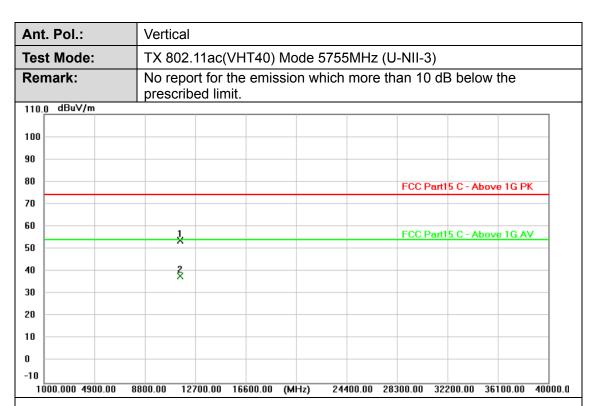


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	11509.743	23.44	14.96	38.40	54.00	-15.60	AVG
2	11510.336	38.12	14.97	53.09	74.00	-20.91	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



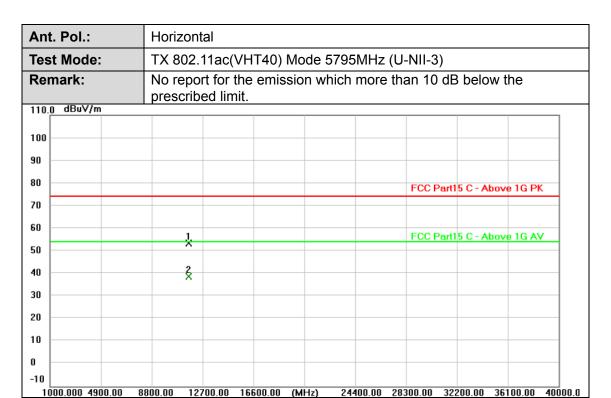


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11509.610	38.74	14.96	53.70	74.00	-20.30	peak
2 *	11509.719	22.96	14.96	37.92	54.00	-16.08	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



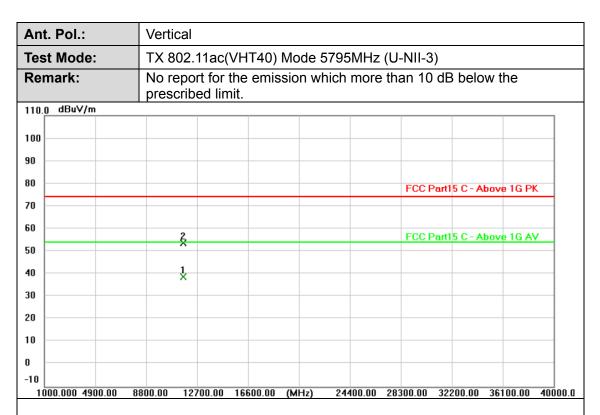


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	11590.204	38.41	15.12	53.53	74.00	-20.47	peak
2 *	11590.235	23.60	15.12	38.72	54.00	-15.28	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



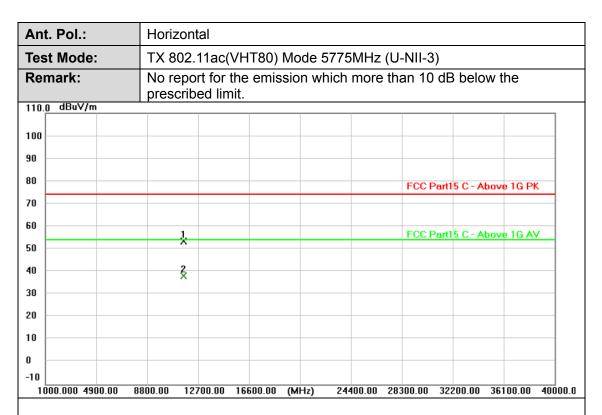


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)			Detector
1 *	11589.624	23.59	15.11	38.70	54.00	-15.30	AVG
2	11589.775	38.59	15.11	53.70	74.00	-20.30	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11550.073	38.52	15.05	53.57	74.00	-20.43	peak
2 *	11550.336	23.22	15.05	38.27	54.00	-15.73	AVG

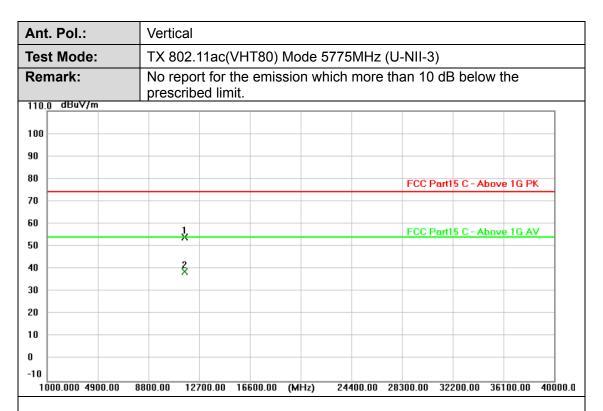
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	11549.946	39.11	15.04	54.15	74.00	-19.85	peak
2 *	11550.206	23.58	15.05	38.63	54.00	-15.37	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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3.3. Band Edge Emissions

Limit

Limits of unwanted emission out of the restricted bands

FCC CFR Title 47 Part 15 Subpart C Section 15.407(b)/ RSS-247 6.2.1.2 & RSS-247 6.2.4.2

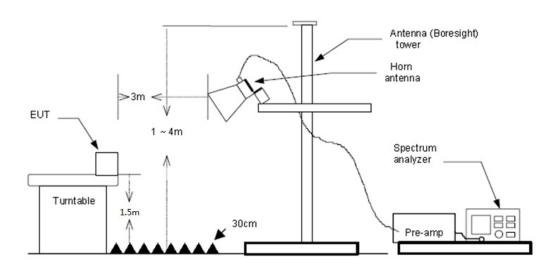
Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)		
5150~5250	-27	68.2		
5250~5350	-27	68.2		
5470~5725	-27	68.2		
	-27(Note 2)	68.2		
5725~5825	10(Note 2)	105.2		
3723~3623	15.6(Note 2)	110.8		
	27(Note 2)	122.2		

Note: 1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field $1000000\sqrt{30P}$...

strength: $E = \frac{1000000\sqrt{30P}}{3}$ uV/m, where P is the eirp (Watts)

2. According to FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

Test Configuration



Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters 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 C63.10:2013 on radiated measurement.

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5. The receiver set as follow:

RBW=1MHz, VBW=3MHz PEAK detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause Appendix E: Duty Cycle

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Test Mode

Please refer to the clause 2.4.

Test Results

Ant. Pol.:	Horizontal
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)
Remark:	No report for the emission which more than 10 dB below the prescribed limit.
120.0 dBuV/m	
110	
100	
90	
80	FCC Part15 C - Above 1G PK
70	J.
60	FCC Part 5 C - Above 1G AV
50	and the second s
40	
30	
20	
10	
0.0	

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	24.43	37.18	61.61	74.00	-12.39	peak
2 *	5150.000	10.70	37.18	47.88	54.00	-6.12	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Vertical Test Mode: TX 802.11a Mode 5180MHz (U-NII-1) Remark: No report for the emission which more than 10 dB below the prescribed limit. 120.0 dBuV/m 110 100 90 80 FCC Part15 C - Above 1G PK 70 60 FCC Part 15 C Above 1G AV 50 40 30 20

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	22.46	37.18	59.64	74.00	-14.36	peak
2 *	5150.000	9.59	37.18	46.77	54.00	-7.23	AVG

(MHz)

5100.00

5125.00

5150.00

5175.00

5200.00

Remarks:

10

4950.000 4975.00

5025.00

5050.00

5000.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

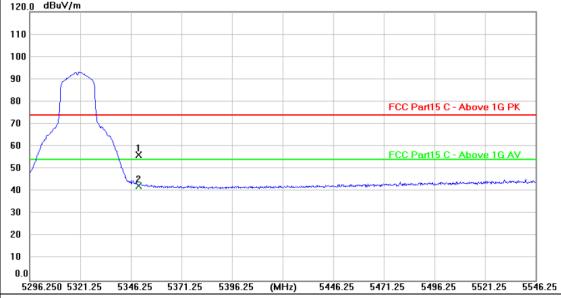


Ant. Pol.: Horizontal

Test Mode: TX 802.11a Mode 5320MHz (U-NII-1)

Remark: No report for the emission which more than 10 dB below the prescribed limit.

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	18.91	37.40	56.31	74.00	-17.69	peak
2 *	5350.000	5.09	37.40	42.49	54.00	-11.51	AVG

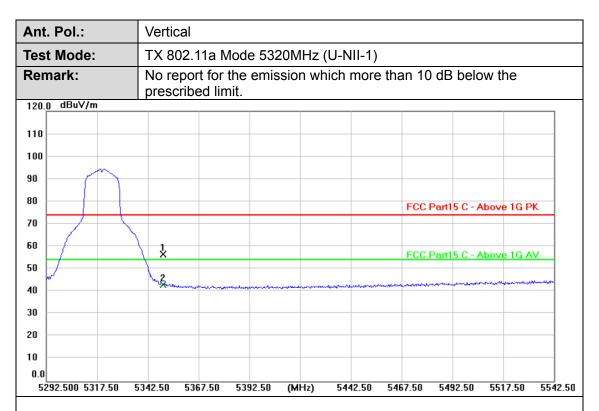
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	19.10	37.40	56.50	74.00	-17.50	peak
2 *	5350.000	5.53	37.40	42.93	54.00	-11.07	AVG

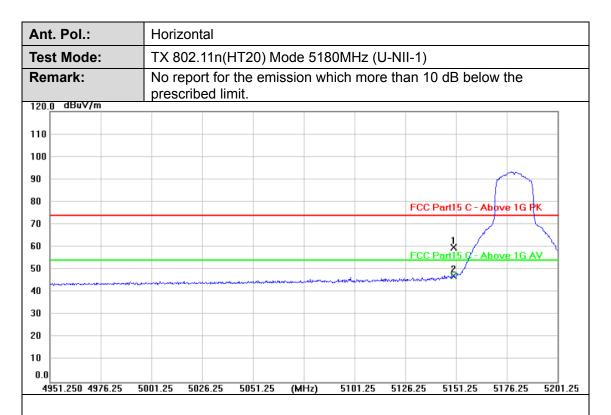
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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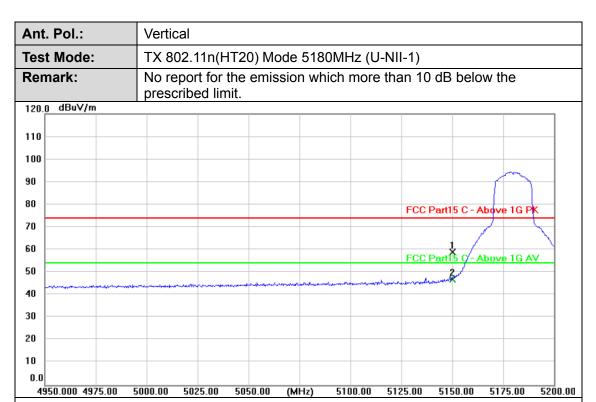


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)			Detector
1	5150.000	22.79	37.18	59.97	74.00	-14.03	peak
2 *	5150.000	10.20	37.18	47.38	54.00	-6.62	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



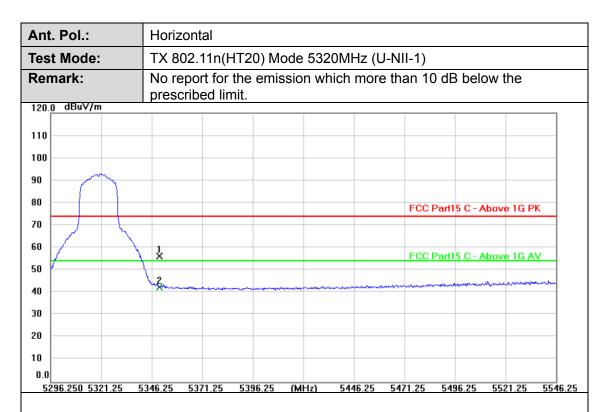


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)			Detector
1	5150.000	21.87	37.18	59.05	74.00	-14.95	peak
2 *	5150.000	9.78	37.18	46.96	54.00	-7.04	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



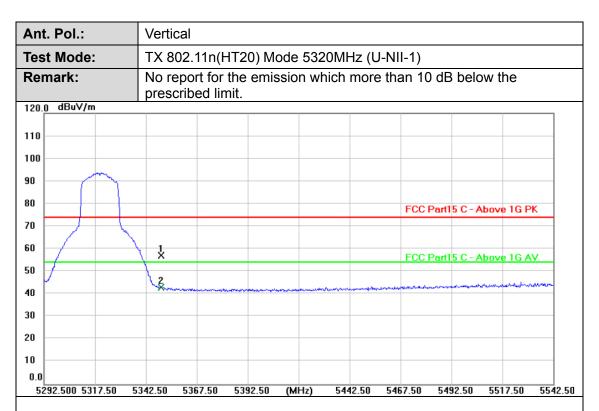


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	18.74	37.40	56.14	74.00	-17.86	peak
2 *	5350.000	5.18	37.40	42.58	54.00	-11.42	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



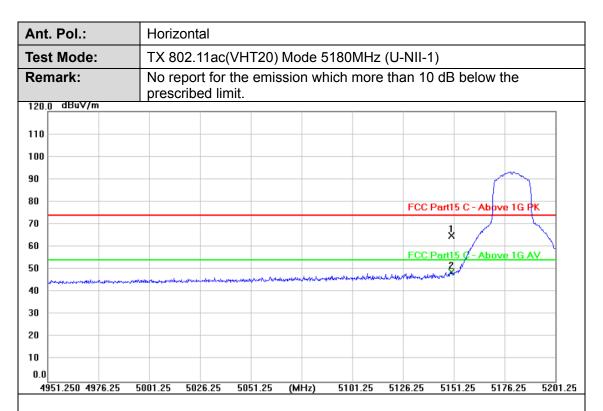


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	19.70	37.40	57.10	74.00	-16.90	peak
2 *	5350.000	5.77	37.40	43.17	54.00	-10.83	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



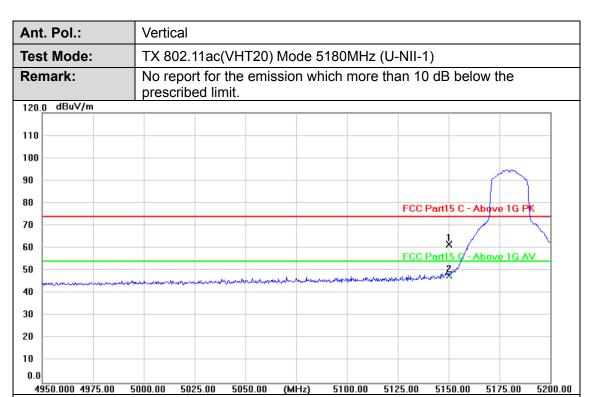


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)		Detector
1	5150.000	27.75	37.18	64.93	74.00	-9.07	peak
2 *	5150.000	11.45	37.18	48.63	54.00	-5.37	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



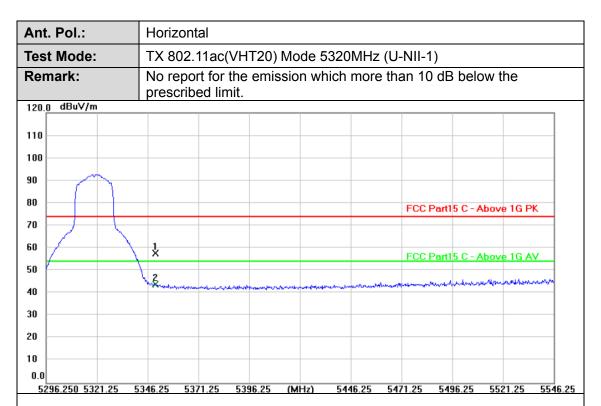


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	24.37	37.18	61.55	74.00	-12.45	peak
2 *	5150.000	10.79	37.18	47.97	54.00	-6.03	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



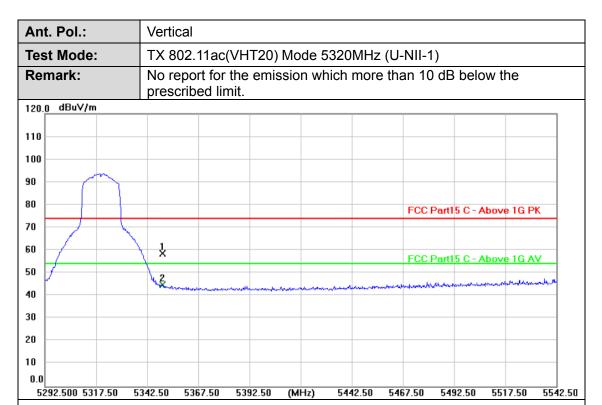


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	20.25	37.40	57.65	74.00	-16.35	peak
2 *	5350.000	6.49	37.40	43.89	54.00	-10.11	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



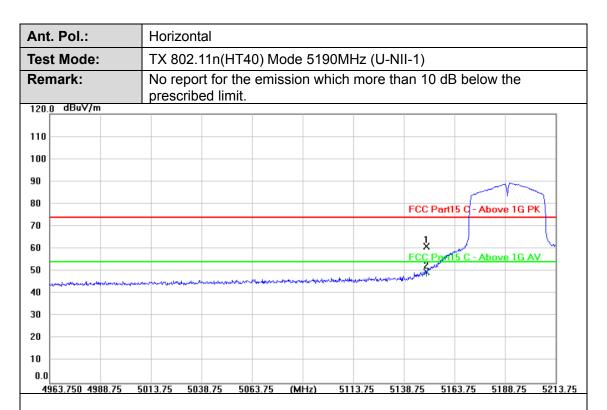


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	21.36	37.40	58.76	74.00	-15.24	peak
2 *	5350.000	7.40	37.40	44.80	54.00	-9.20	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



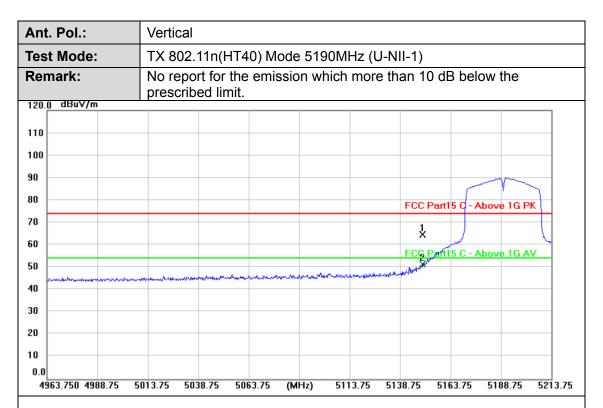


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5150.000	23.85	37.18	61.03	74.00	-12.97	peak
2 *	5150.000	12.51	37.18	49.69	54.00	-4.31	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



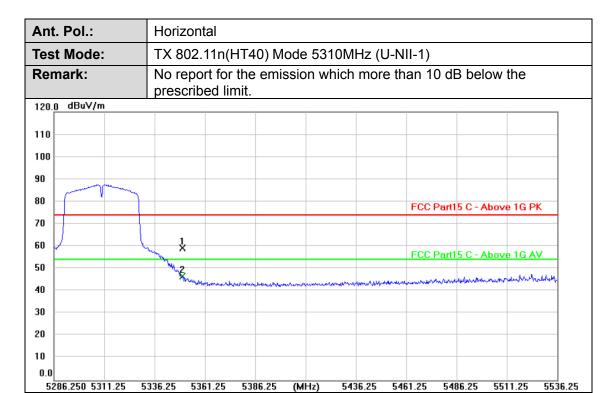


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	27.47	37.18	64.65	74.00	-9.35	peak
2 *	5150.000	14.21	37.18	51.39	54.00	-2.61	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	21.96	37.40	59.36	74.00	-14.64	peak
2 *	5350.000	9.21	37.40	46.61	54.00	-7.39	AVG

(MHz)

5436.25

5461.25

5486.25

5511.25

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

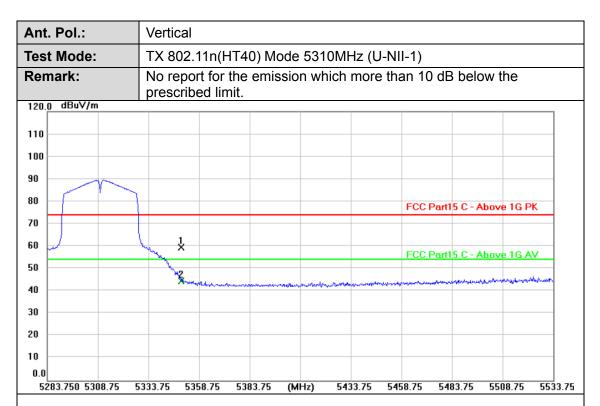
2.Margin value = Level -Limit value

5336.25

5361.25

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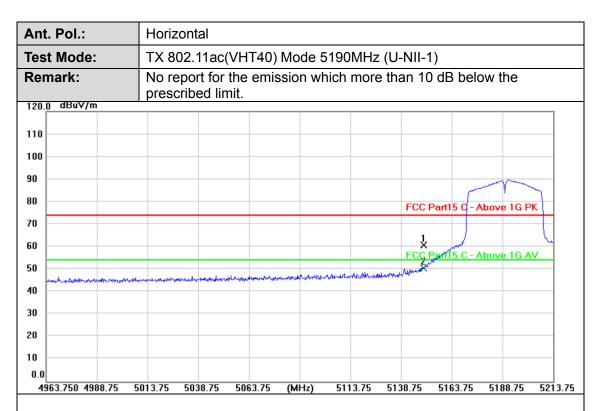


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	22.28	37.40	59.68	74.00	-14.32	peak
2 *	5350.000	7.26	37.40	44.66	54.00	-9.34	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	23.50	37.18	60.68	74.00	-13.32	peak
2 *	5150.000	13.39	37.18	50.57	54.00	-3.43	AVG

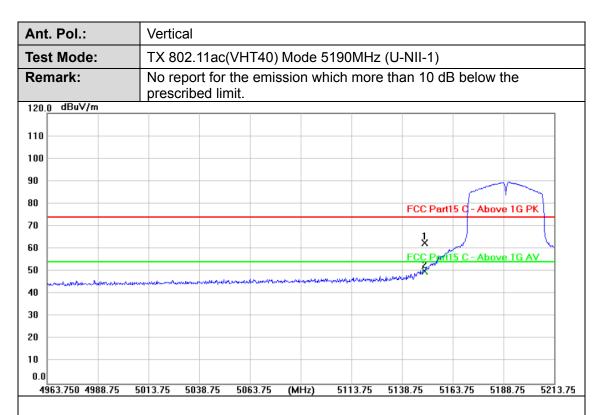
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	25.36	37.18	62.54	74.00	-11.46	peak
2 *	5150.000	12.80	37.18	49.98	54.00	-4.02	AVG

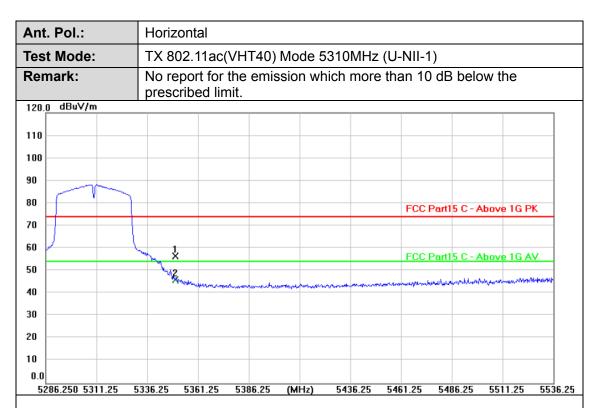
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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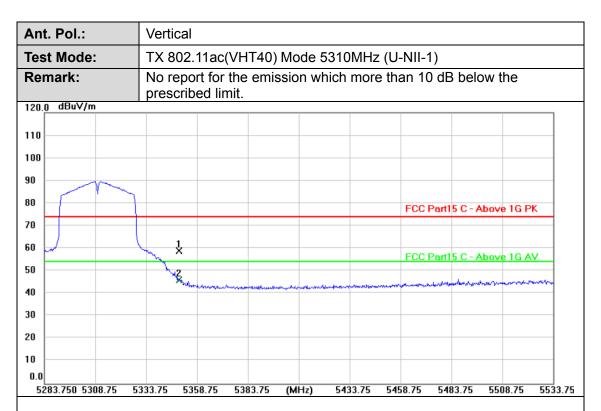


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	19.04	37.40	56.44	74.00	-17.56	peak
2 *	5350.000	8.65	37.40	46.05	54.00	-7.95	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



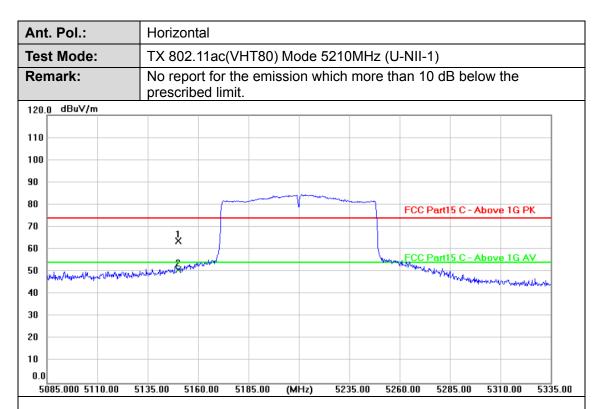


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	21.51	37.40	58.91	74.00	-15.09	peak
2 *	5350.000	8.74	37.40	46.14	54.00	-7.86	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



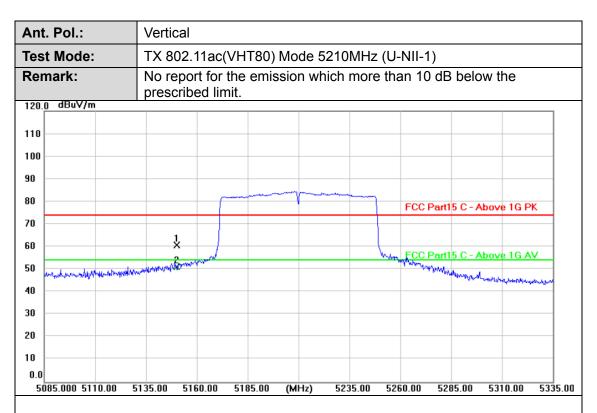


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)			Detector
1	5150.000	26.70	37.18	63.88	74.00	-10.12	peak
2 *	5150.000	13.52	37.18	50.70	54.00	-3.30	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



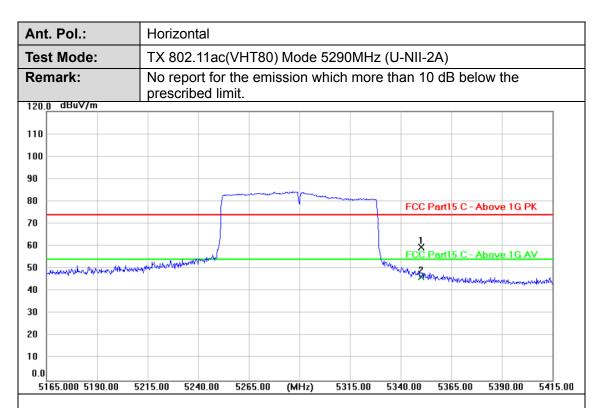


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5150.000	23.67	37.18	60.85	74.00	-13.15	peak
2 *	5150.000	13.93	37.18	51.11	54.00	-2.89	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5350.000	22.26	37.40	59.66	74.00	-14.34	peak
2 *	5350.000	9.00	37.40	46.40	54.00	-7.60	AVG

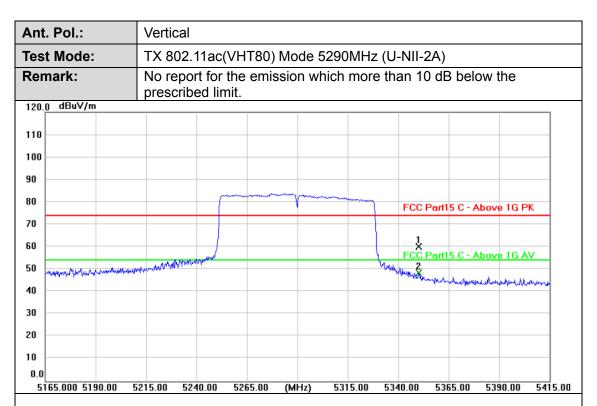
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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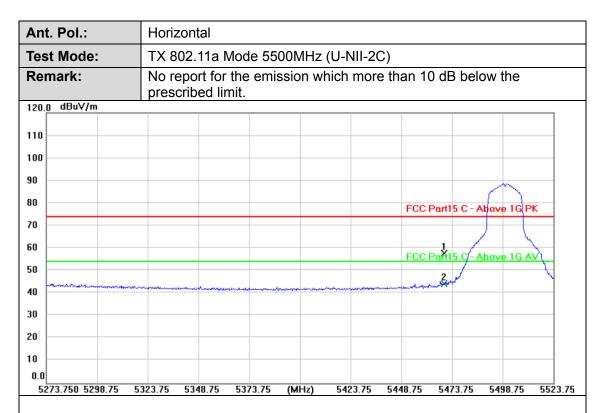


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.000	22.86	37.40	60.26	74.00	-13.74	peak
2 *	5350.000	10.94	37.40	48.34	54.00	-5.66	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5470.000	20.26	37.59	57.85	74.00	-16.15	peak
2 *	5470.000	6.73	37.59	44.32	54.00	-9.68	AVG

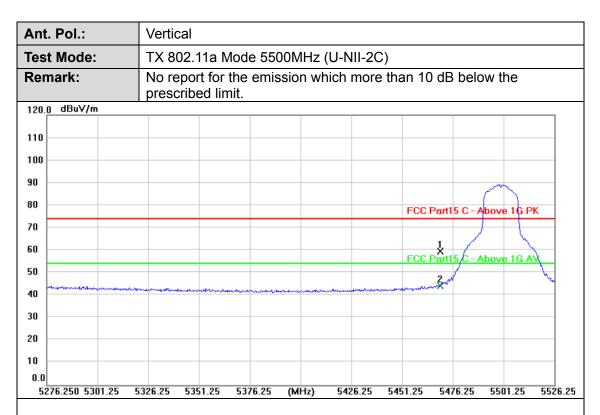
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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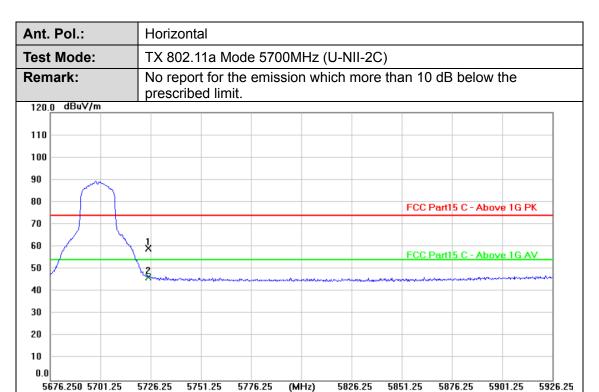


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5470.000	22.01	37.59	59.60	74.00	-14.40	peak
2 *	5470.000	6.76	37.59	44.35	54.00	-9.65	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5725.000	21.18	38.16	59.34	74.00	-14.66	peak
2 *	5725.000	8.11	38.16	46.27	54.00	-7.73	AVG

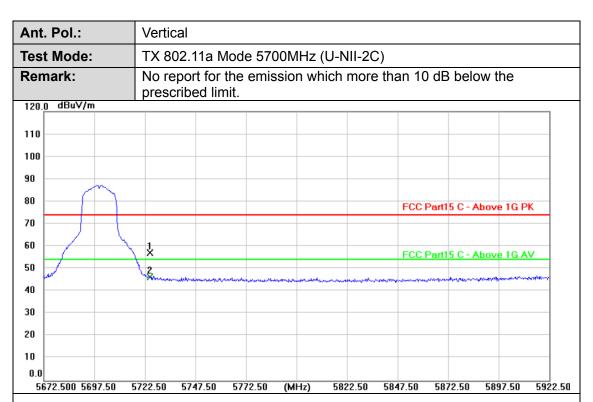
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5725.000	19.05	38.16	57.21	74.00	-16.79	peak
2 *	5725.000	8.29	38.16	46.45	54.00	-7.55	AVG

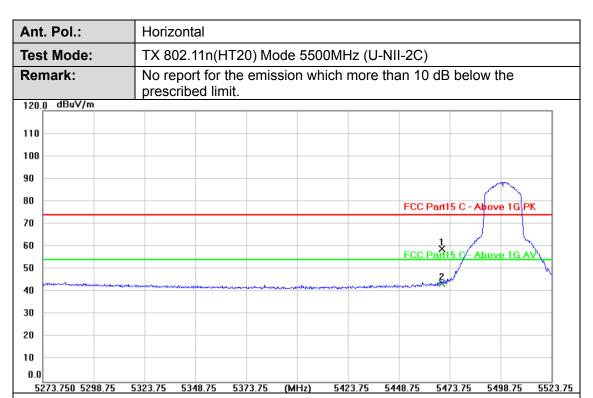
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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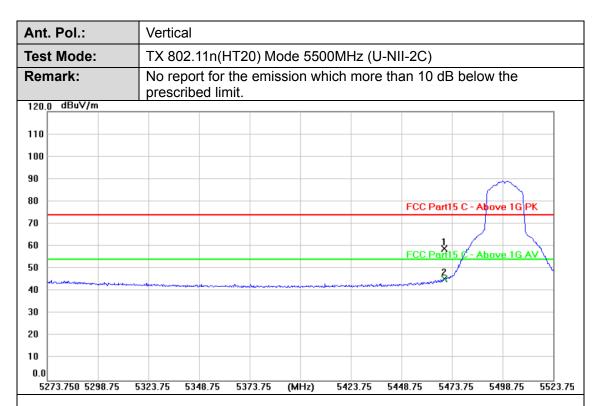
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5470.000	21.27	37.59	58.86	74.00	-15.14	peak
2 *	5470.000	6.15	37.59	43.74	54.00	-10.26	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



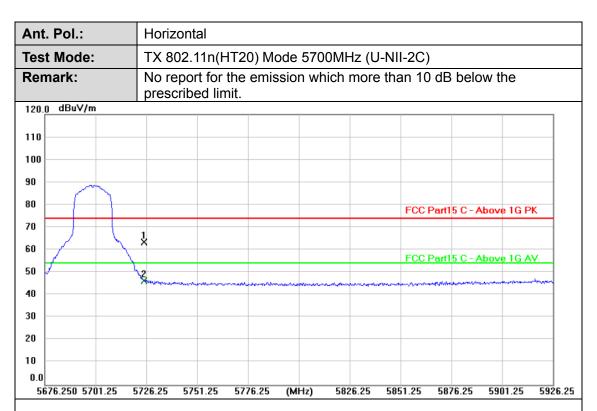


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	5470.000	21.33	37.59	58.92	74.00	-15.08	peak
2 *	5470.000	7.95	37.59	45.54	54.00	-8.46	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)			Detector
1	5725.000	25.29	38.16	63.45	74.00	-10.55	peak
2 *	5725.000	8.28	38.16	46.44	54.00	-7.56	AVG

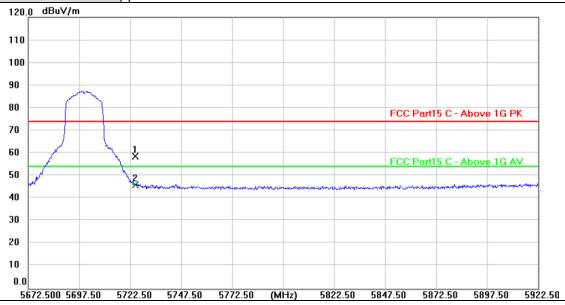
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Vertical Test Mode: TX 802.11n(HT20) Mode 5700MHz (U-NII-2C) No report for the emission which more than 10 dB below the Remark: prescribed limit.

Report No.: CTC20240101E17



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5725.000	20.52	38.16	58.68	74.00	-15.32	peak
2 *	5725.000	7.97	38.16	46.13	54.00	-7.87	AVG

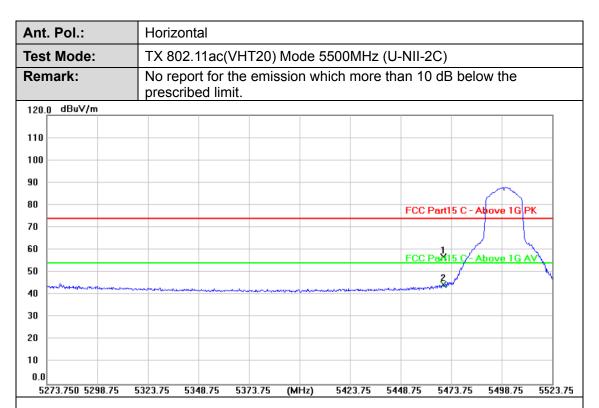
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5470.000	19.19	37.59	56.78	74.00	-17.22	peak
2 *	5470.000	7.08	37.59	44.67	54.00	-9.33	AVG

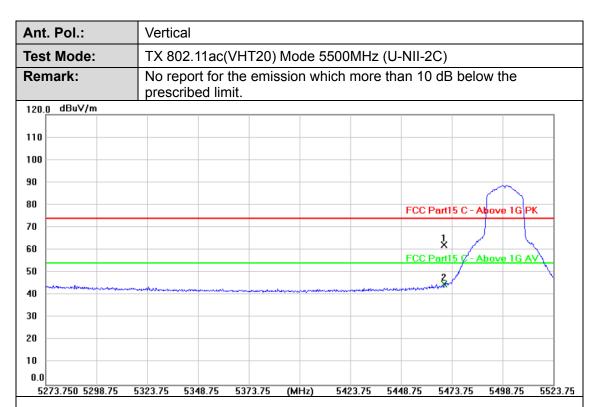
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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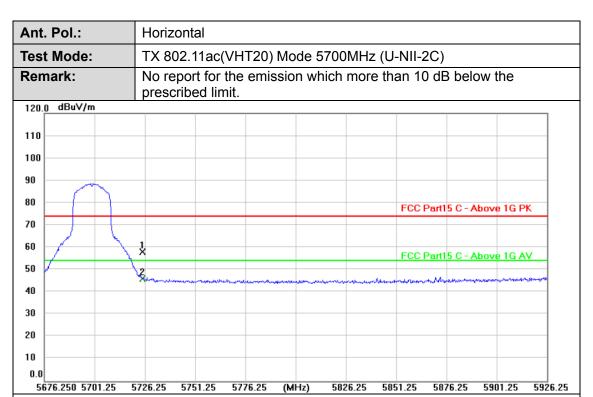
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	24.65	37.59	62.24	74.00	-11.76	peak
2 *	5470.000	7.13	37.59	44.72	54.00	-9.28	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5725.000	19.84	38.16	58.00	74.00	-16.00	peak
2 *	5725.000	7.89	38.16	46.05	54.00	-7.95	AVG

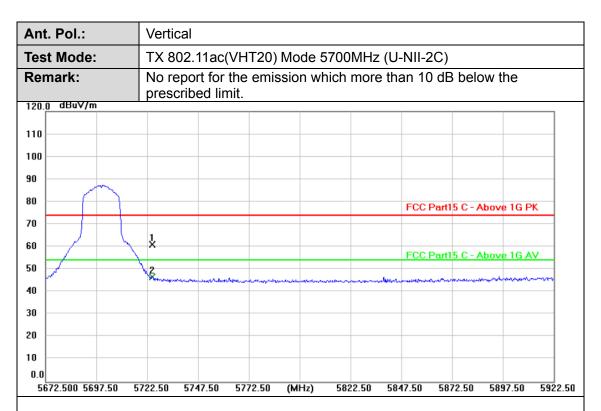
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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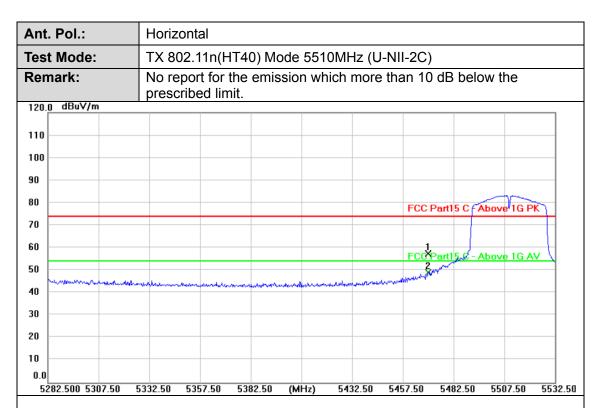
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5725.000	22.79	38.16	60.95	74.00	-13.05	peak
2 *	5725.000	8.39	38.16	46.55	54.00	-7.45	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5470.000	19.93	37.59	57.52	74.00	-16.48	peak
2 *	5470.000	11.36	37.59	48.95	54.00	-5.05	AVG

Remarks:

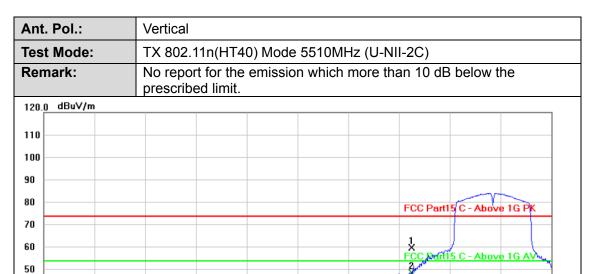
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

5488.75

5438.75 5463.75



5288.750 5313.75





(MHz)

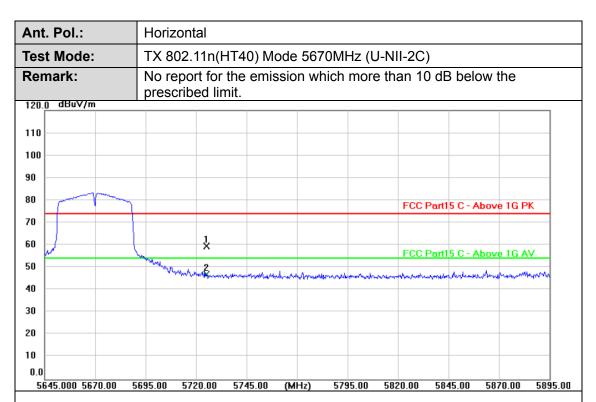
5363.75

5388.75

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





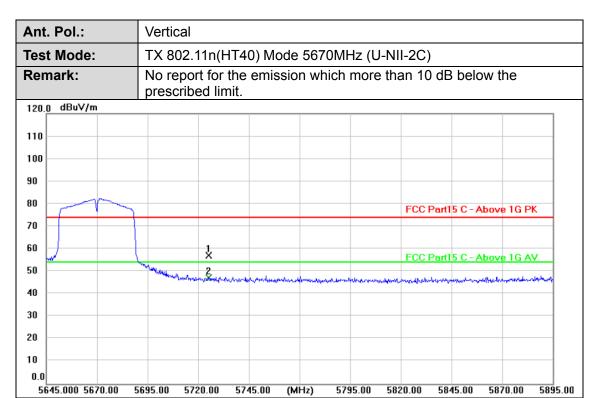
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5725.000	21.33	38.16	59.49	74.00	-14.51	peak
2 *	5725.000	8.88	38.16	47.04	54.00	-6.96	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value





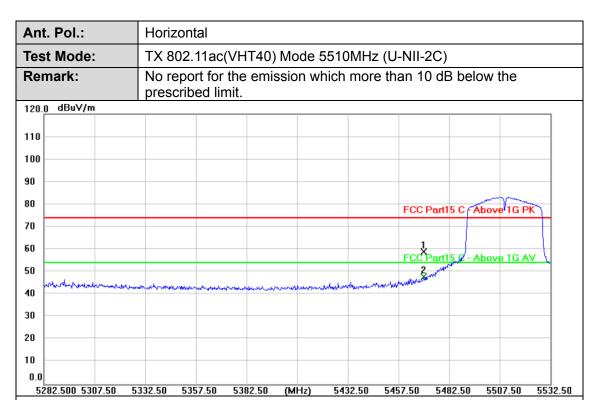
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)			Detector
1	5725.000	18.98	38.16	57.14	74.00	-16.86	peak
2 *	5725.000	8.98	38.16	47.14	54.00	-6.86	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



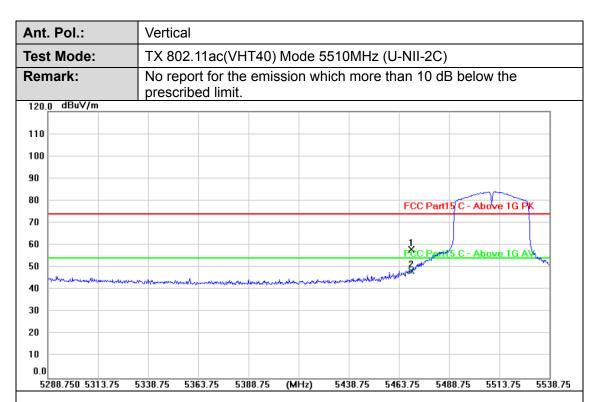


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5470.000	21.50	37.59	59.09	74.00	-14.91	peak
2 *	5470.000	10.24	37.59	47.83	54.00	-6.17	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





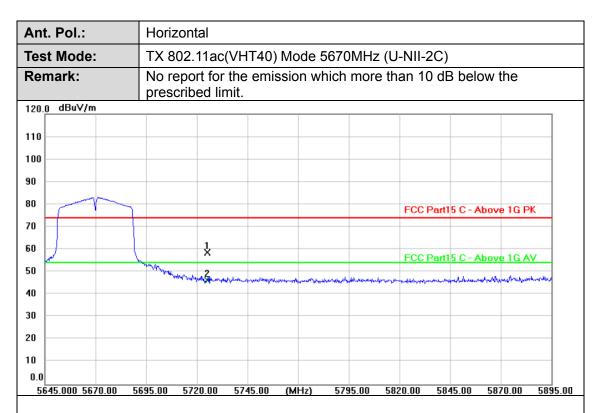
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5470.000	20.49	37.59	58.08	74.00	-15.92	peak
2 *	5470.000	10.87	37.59	48.46	54.00	-5.54	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



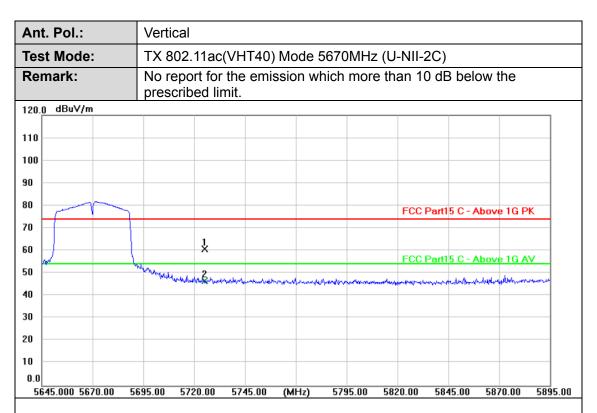


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5725.000	20.62	38.16	58.78	74.00	-15.22	peak
2 *	5725.000	8.29	38.16	46.45	54.00	-7.55	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



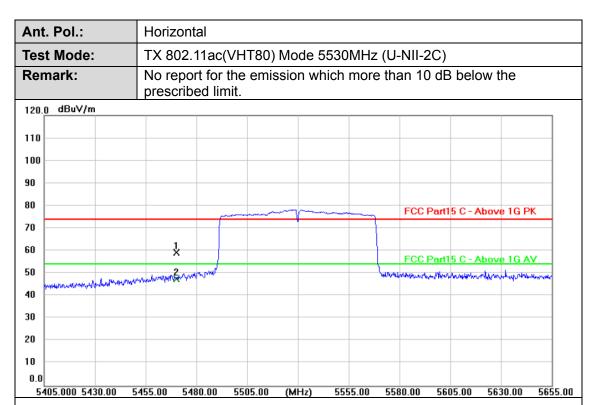


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)			Detector
1	5725.000	22.54	38.16	60.70	74.00	-13.30	peak
2 *	5725.000	8.54	38.16	46.70	54.00	-7.30	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



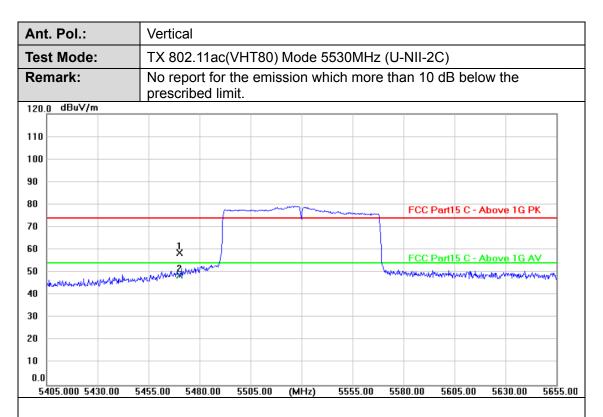


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5470.000	21.56	37.59	59.15	74.00	-14.85	peak
2 *	5470.000	10.06	37.59	47.65	54.00	-6.35	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



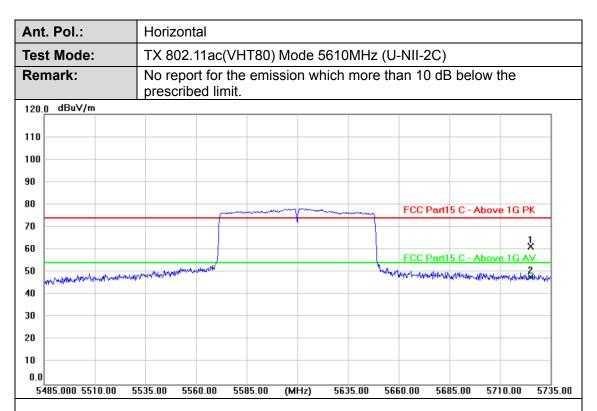


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5470.000	20.94	37.59	58.53	74.00	-15.47	peak
2 *	5470.000	11.27	37.59	48.86	54.00	-5.14	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



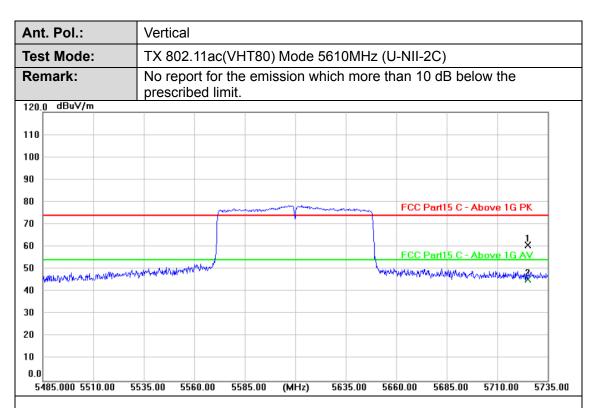


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)		Detector
1	5725.000	23.30	38.16	61.46	74.00	-12.54	peak
2 *	5725.000	9.73	38.16	47.89	54.00	-6.11	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





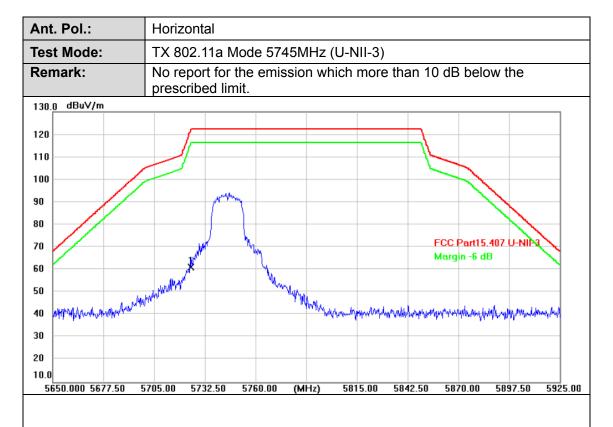
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	5725.000	22.55	38.16	60.71	74.00	-13.29	peak
2 *	5725.000	7.43	38.16	45.59	54.00	-8.41	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



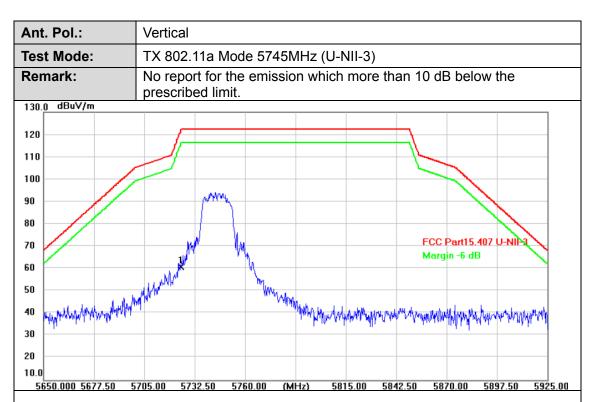


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	56.56	4.62	61.18	122.20	-61.02	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	56.28	4.62	60.90	122.20	-61.30	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Horizontal Test Mode: TX 802.11a Mode 5825MHz (U-NII-3) No report for the emission which more than 10 dB below the Remark: prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NIP 70 Margin -6 dB 60 50 40 30 20 10.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	47.39	5.10	52.49	122.20	-69.71	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5650.000 5677.50 5705.00 5732.50 5760.00 (MHz)

5815.00 5842.50 5870.00 5897.50 5925.00



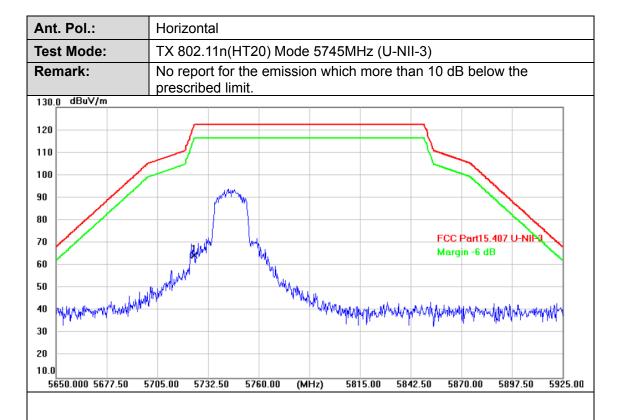
Ant. Pol.: Vertical Test Mode: TX 802.11a Mode 5825MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NIP 70 Margin -6 dB 60 50 30 20 10.0 5650.000 5677.50 5705.00 5732.50 5760.00 (MHz) 5815.00 5842.50 5870.00 5897.50 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	47.48	5.10	52.58	122.20	-69.62	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	59.92	4.62	64.54	122.20	-57.66	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Vertical Test Mode: TX 802.11n(HT20) Mode 5745MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NIP 70 Margin -6 dB 60 Machine Same Shipping to before 50 40 30 20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	59.08	4.62	63.70	122.20	-58.50	AVG

(MHz)

5815.00

5842.50

5870.00

5897.50

5925.00

Remarks:

10.0

5650.000 5677.50

5705.00

5732.50

5760.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Horizontal Test Mode: TX 802.11n(HT20) Mode 5825MHz (U-NII-3) No report for the emission which more than 10 dB below the Remark: prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 70 Margin -6 dB May have the description of the second of th 60 50 40 30

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	50.07	5.10	55.17	122.20	-67.03	peak

(MHz)

5870.00

5925.00

Remarks:

20 10.0

5650.000 5677.50

5705.00 5732.50

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



Ant. Pol.: Vertical Test Mode: TX 802.11n(HT20) Mode 5825MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 100 90 80 FCC Part15.407 U-NII 70 Margin -6 dB 60 50 40 30 20 10.0 5650.000 5677.50 5705.00 5732.50 5760.00 (MHz) 5842.50 5870.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1 *	5850.000	49.47	5.10	54.57	122.20	-67.63	peak	

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.: Horizontal Test Mode: TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3) No report for the emission which more than 10 dB below the Remark: prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NIP 70 Margin -6 dB 60 ming and a graph world about the defendence 30 20 10.0 5650.000 5677.50 5705.00 5732.50 5760.00 (MHz) 5815.00 5842.50 5870.00 5897.50 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	57.27	4.62	61.89	122.20	-60.31	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5925.00



Ant. Pol.: Vertical Test Mode: TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NIP 70 Margin -6 dB mby many farmani 60 50 40 30 20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	59.36	4.62	63.98	122.20	-58.22	peak

(MHz)

5815.00

5842.50

5870.00

5897.50

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

5705.00

5732.50

5760.00

5650.000 5677.50



Ant. Pol.: Horizontal Test Mode: TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NIP 70 Margin -6 dB The mount of the phylography 60 50 30 20 10.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	51.11	5.10	56.21	122.20	-65.99	peak

(MHz)

5815.00

5842.50

5870.00

5897.50

5925.00

5760.00

Remarks:

5650.000 5677.50

5705.00

5732.50

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.: Vertical Test Mode: TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII 70 Margin -6 dB 60 Report of the Mark of the transfer of the second 50 30 20 10.0 5650.000 5677.50 5760.00 5705.00 5732.50 (MHz) 5815.00 5842.50 5870.00 5897.50 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5750.000	34.85	4.72	39.57	122.20	-82.63	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.: Horizontal Test Mode: TX 802.11n(HT40) Mode 5755MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 The state of the s FCC Part15.407 U-NIP 70 Market Ma 60 50 40 30 20 5650.000 5677.50 5705.00 5732.50 5760.00 (MHz) 5815.00 5842.50 5870.00 5897.50 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	62.94	4.62	67.56	122.20	-54.64	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

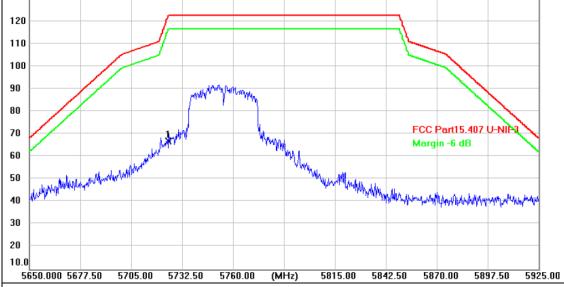


Ant. Pol.: Vertical

Test Mode: TX 802.11n(HT40) Mode 5755MHz (U-NII-3)

Remark: No report for the emission which more than 10 dB below the prescribed limit.

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	62.20	4.62	66.82	122.20	-55.38	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.: Horizontal Test Mode: TX 802.11n(HT40) Mode 5795MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NII 70 Margin -6 dB 60 Mischighten was the production of 50 proprietable proprietable to the control of the of some of proprietable 40 30 20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	46.61	5.10	51.71	122.20	-70.49	peak

5650.000 5677.50 5705.00 5732.50 5760.00 (MHz) 5815.00 5842.50 5870.00 5897.50 5925.00

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.: Vertical Test Mode: TX 802.11n(HT40) Mode 5795MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 works the parameter for the property of the parameter of FCC Part15.407 U-NII morror of the second of the se 70 60 50 40 30 20 5650.000 5677.50 5705.00 5732.50 5760.00 5842.50 5897.50 5925.00 (MHz) 5815.00 5870.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	44.37	5.10	49.47	122.20	-72.73	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.: Horizontal Test Mode: TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3) No report for the emission which more than 10 dB below the Remark: prescribed limit. 130.0 dBuV/m 120 110 100 90 80 January Comment of the state of FCC Part15.407 U-NIP 70 Margin -6 dB and have been productived by forther forther from the control of t 60 50 40 30 20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	60.29	4.62	64.91	122.20	-57.29	peak

(MHz)

5815.00

5842.50

5870.00

5897.50

5925.00

Remarks:

10.0

5650.000 5677.50

5705.00

5732.50

5760.00

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. Pol.: Vertical Test Mode: TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 FCC Part15.407 U-NIP the water the wa 70 grandery myly rock placement the special statement of the special state 60 50 30 20 10.0 5650.000 5677.50 5705.00 5732.50 5760.00 (MHz) 5815.00 5842.50 5870.00 5897.50 5925.00

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5725.000	61.86	4.62	66.48	122.20	-55.72	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.: Horizontal Test Mode: TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3) Remark: No report for the emission which more than 10 dB below the prescribed limit. 130.0 dBuV/m 120 110 100 90 80 A to the town to the grant the state of the second to the FCC Part15.407 U-NIP Marragha Wash Maran and Arragh Marraga and Arraga and Arragh Marraga and Arraga and Arragh Marraga and Arragh Arraga and A 70 60 50 40 30 20 5650.000 5677.50 5925.00 5705.00 5732.50 5760.00 (MHz) 5815.00 5842.50 5870.00 5897.50

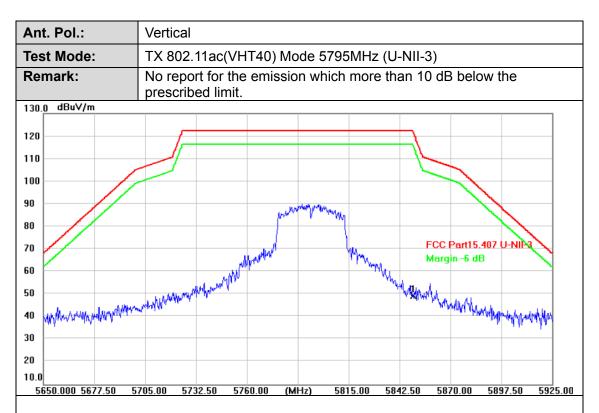
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	44.04	5.10	49.14	122.20	-73.06	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value





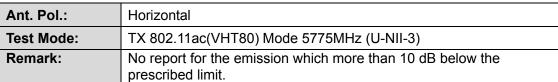
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	44.33	5.10	49.43	122.20	-72.77	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value







No.	Frequency	Reading	Factor	Level	Limit	Margin	Detector
INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1 *	5725.000	62.38	4.62	67.00	122.20	-55.20	peak
2	5850.000	56.01	5.10	61.11	122.20	-61.09	peak

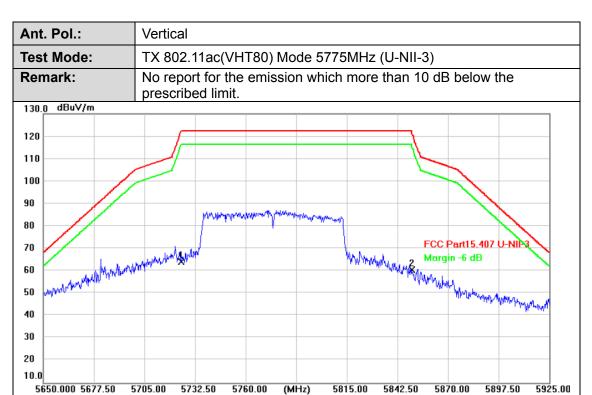
Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)			Detector
1 *	5725.000	59.66	4.62	64.28	122.20	-57.92	peak
2	5850.000	55.51	5.10	60.61	122.20	-61.59	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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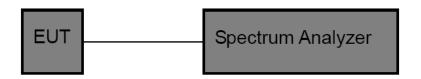


3.4. Bandwidth Test

Limit

FCC Part 15 Subpart C(15.407)/ RSS-247					
Test Item Limit Frequency Range (MHz)					
		5150~5250			
26 Bandwidth	N/A	5250~5350			
		5500~5700			
6 dB Bandwidth	>500kHz	5725~5850			

Test Configuration



Test Procedure

Please refer to According to KDB789033 D02, for the measurement methods.

The setting of the spectrum analyser as below:

26dB Bandwidth Test				
Spectrum Parameters	Setting			
Attenuation	Auto			
Span	>26 dB Bandwidth			
RBW	Approximately 1% of the emission bandwidth			
VBW	VBW>RBW			
Detector	Peak			
Trace	Max Hold			
Sweep Time	Auto			



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	6dB Bandwidth Test
Spectrum Parameters	Setting
Attenuation	Auto
Span	>6 dB Bandwidth
RBW	100 kHz
VBW	VBW>=3*RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
99%	6 Occupied Bandwidth Test
Spectrum Parameters	Setting
Attenuation	Auto
RBW	1% to 5% of the OBW
VBW	≥ 3RBW
Detector	Peak
Trace	Max Hold

Note: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

Test Results

Please see the Appendix A1, A2, A3.



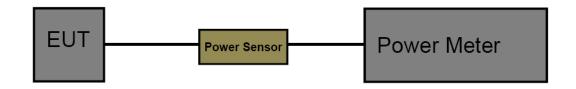
3.5. Output Power Test

<u>Limit</u>

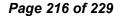
FCC Part 15 Subpart E (15.407)						
Test Item	Limit	Frequency Range(MHz)				
	Fixed: 1 Watt (30dBm) Mobile and Portable: 250mW (24dBm)	5150~5250				
Conducted Output Power	250mW (24dBm)	5250~5350				
	250mW (24dBm)	5500~5700				
	1 Watt (30dBm)	5725~5850				

			IC Power@PSD Limit			
Frequency	Type of devices	Maximum Conducted	EIRP Output Power	Conducted Power	EIRP Power	
5150MHz-5250MHz	in vehicles	Output Power	30mW or 1.76 + 10 × logsOB dBm, whichever is less (B=99% OBW in MHz)	Spectral Density	Spectral Density	
3130mm2 3230mm2	Other Devices		200mW or 10 + 10 × logioB dBm, whichever is less (B=99% OBW in MHz)		10dBm/MHz	
	in vehicles		30mW or 1.76 + 10 × logsoB dBm, whichever is less (B=99% OBW in MHz)			
5250MHz-5350MHz	Other Devices	250mW or 11 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	1W or 17 + 10 ×log10B dBm, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz		
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or 11 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	1W or 17 + 10 ×log10B dBm, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz		
5725MHz-5850MHz	ALL Devices	1₩		30dBm/500KHz		

Test Configuration



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1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China





Test Procedure

The measurement is according to section 3 of KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

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Test Mode

Please refer to the clause 2.4.

Test Result

Please see the Appendix B.



3.6. Power Spectral Density Test

Limit

FCC Part 15 Subpart E(15.407)/ RSS-247

For the 5.15~5.25GHz band:

Outdoor AP

The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. If G_{Tx} >6dBi, then PSD =17-(G_{Tx} -6).

Indoor AP

The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. If G_{Tx} >6dBi, then PSD =17-(G_{Tx} -6).

Point-to-point AP

The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. If $G_{Tx} > 23$ dBi, then PSD = 17-($G_{Tx} - 23$).

Client devices

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. If G_{Tx} >6dBi, then PSD =11-(G_{Tx} -6).

For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. If G_{Tx} >6dBi, then PSD =11-(G_{Tx} -6).

For the 5.47~5.725GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. If G_{Tx} >6dBi, then PSD =11-(G_{Tx} -6).

For the 5.725~5.85GHz band:

Point-to-multipoint systems (P2M)

The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz. If G_{Tx} >6dBi, then PSD =30-(G_{Tx} -6).

Point-to-point systems (P2P)

The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

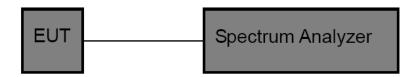
Note: G_{Tx}: EUT Antenna gain.

		nit			
Frequency	Type of devices	Maximum Conducted Output Power	EIRP Output Power	Conducted Power Spectral Density	EIRP Power Spectral Density
5150MHz-5250MHz	in vehicles		30mW or 1.76 + 10 × logsoB dBm, whichever is less (B=99% OBW in MHz)		
	Other Devices		200mW or 10 + 10 × logsOB dBm, whichever is less (B=99% OBW in MHz)		10dBm/MHz
	in vehicles		30mW or 1.76 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)		
5250MHz-5350MHz	OMHz Other Devices	250mW or 11 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	1W or 17 + 10 ×logioB dBm, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz	
5470MHz-5600MHz 5650MHz-5725MHz	ALL Devices	250mW or 11 + 10 × log10B dBm, whichever is less (B=99% OBW in MHz)	1W or 17 + 10 ×log10B dBm, whichever is less (B=99% OBW in MHz)	11 dBm/Mhz	
5725MHz-5850MHz	ALL Devices	1₩		30 dBm/500KHz	

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Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW)(alternatively, the entire 99% OBW) of the signal.
- (4) RBW=1MHz for devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz RBW=500kHz for devices operating in the band 5.725-5.85 GHz
- (5) Set the VBW to: ≥ 3 RBW
- (6) Detector: AVG
- (7) Trace: Max Hold and View
- (7) Sweep time: auto
- (8) Trace average at least 100 traces in power averaging.
- (9) User the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

Test Result

Please see the Appendix C.



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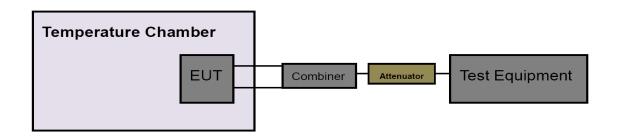


3.7. Frequency Stability Measurement

Limit

FCC Part 15 Subpart C(15.407)						
Test Item	Limit	Frequency Range(MHz)				
	Specified in the user's manual,	5150~5250				
Dook Evauraion Magaurament	the transmitter center frequency tolerance shall be ±20 ppm maximum for the 5 GHz band	5250~5350				
Peak Excursion Measurement		5500~5700				
	(IEEE 802.11n specification)	5725~5850				

Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
- (4) Set the RBW to: 10MHz, VBW=10MHz with peak detector and maxhold settings.
- (5) The test extreme voltage is to change the primary supply voltage from 6.84V to 8.36V percent of the nominal value.
- (6) Extreme temperature is -10°C~50°C

NOTE: The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

Test Mode

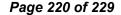
Please refer to the clause 2.4.

Test Result

Please see the Appendix D.



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3.8. Antenna Requirement

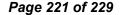
Standard Requirement

FCC CFR Title 47 Part 15 Subpart C 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.





3.9. Dynamic Frequency Selection(DFS)

Requirement

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Report No.: CTC20240101E17

	Operational Mode				
Requirement	Master	Client Without Radar Detection	Client With Radar Detection		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Table 2: Applicability of DFS requirements during normal operation

	Operational Mode			
Requirement	Master Device or Client with Radar Detection	Client Without Radar Detection		
DFS Detection Threshold	Yes	Not required		
Channel Closing Transmission Time	Yes	Yes		
Channel Move Time	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required		

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

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1. DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

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Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

2. DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value		
Non-occupancy period	Minimum 30 minutes		
Channel Availability Check Time	60 seconds		
Channel Move Time	10 seconds See Note 1.		
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.		
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.		

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

RADAR TEST WAVEFORMS

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

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Table 5 Short Pulse Radar Test Waveforms

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Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials		
0	1	1428	18	See Note 1	See Note 1		
	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a		$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right) \right\}$				
1	1	Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A		60%	30		
2	1-5	150-230	23-29	60%	30		
3	6-10	200-500	16-18	60%	30		
4 11-20 200-500		12-16	60%	30			
Aggregate (Radar Types 1-4) 80% 120							
Aggregate (Radar Types 1-4) 80% 120 Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time.							

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 µsec is selected, the number of pulses

would be Round up
$$\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\} = \text{Round up } \{17.2\} = 18.$$

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698

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11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 6 – Long Pulse Radar Test Waveform

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

The parameters for this waveforms are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type wave forms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

For the Frequency Hopping Radar Type, the same Burst parameters are used for each wave form. The hopping sequence is different for each wave form and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250–5724MHz.Next,the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

Calibration of Radar Waveform

Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is -62dBm + 0dBi +1dB = -61dBm that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was

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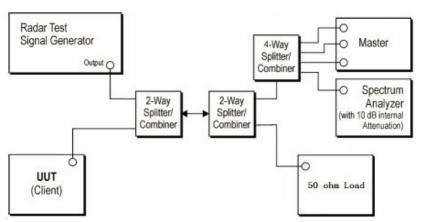


used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.

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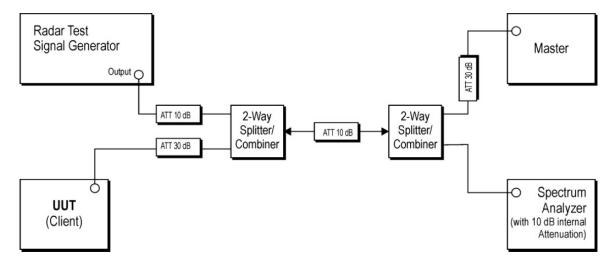
4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was - -62dBm + 0dBi +1dB = -61dBm. Capture the spectrum analyzer plots on short pulse radar waveform.

Conducted Calibration Setup



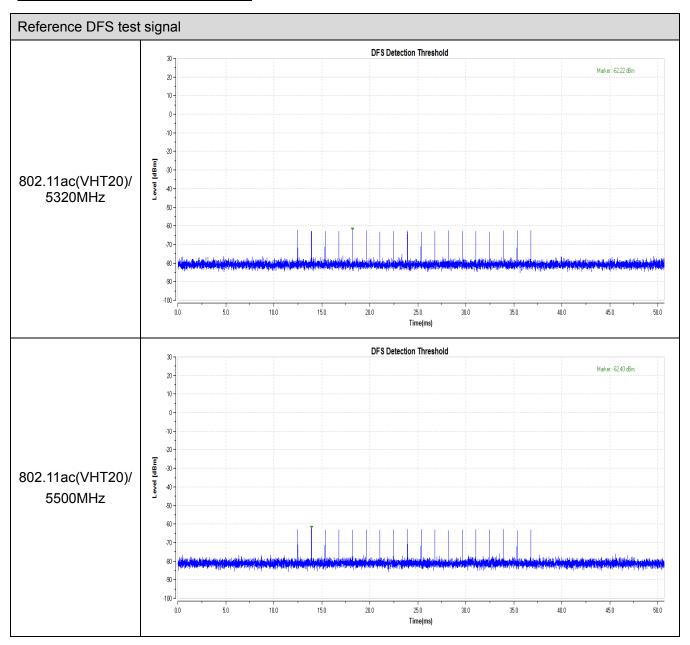
Test Configuration

Setup for Client with injection at the Master





Radar Waveform Calibration Result



Test Procedure

- 1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- 2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
- 3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.





- 6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type
- 7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Test Mode

Please refer to the clause 2.4.

Test Results

∑ Passed	☐ Not Applicable
i usscu	

BW/Channel	Test Item	Test Result	Limit	Result
802.11ac(VHT20)/ 5320MHz	Channel Move Time	1197.3ms	< 10s	Pass
	Channel Closing Transmission Time	227.3ms	< 200+60ms	Pass
	Non-Occupancy Period	See test graph	>=1800	Pass
802.11ac(VHT20)/ 5500MHz	Channel Move Time	1320.9ms	< 10s	Pass
	Channel Closing Transmission Time	229.9ms	< 200+60ms	Pass
	Non-Occupancy Period	See test graph	>=1800	Pass





