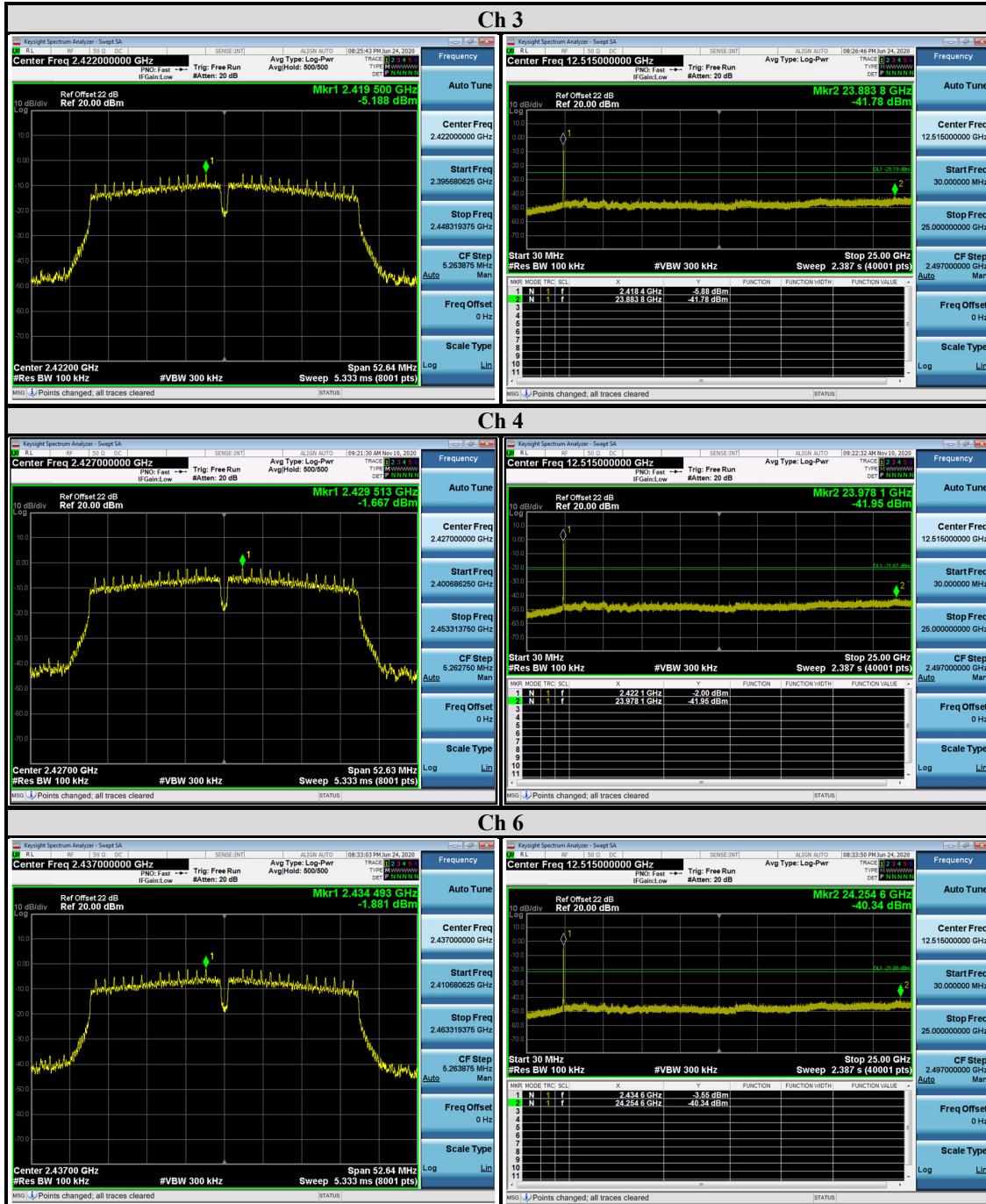




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CHAIN 1



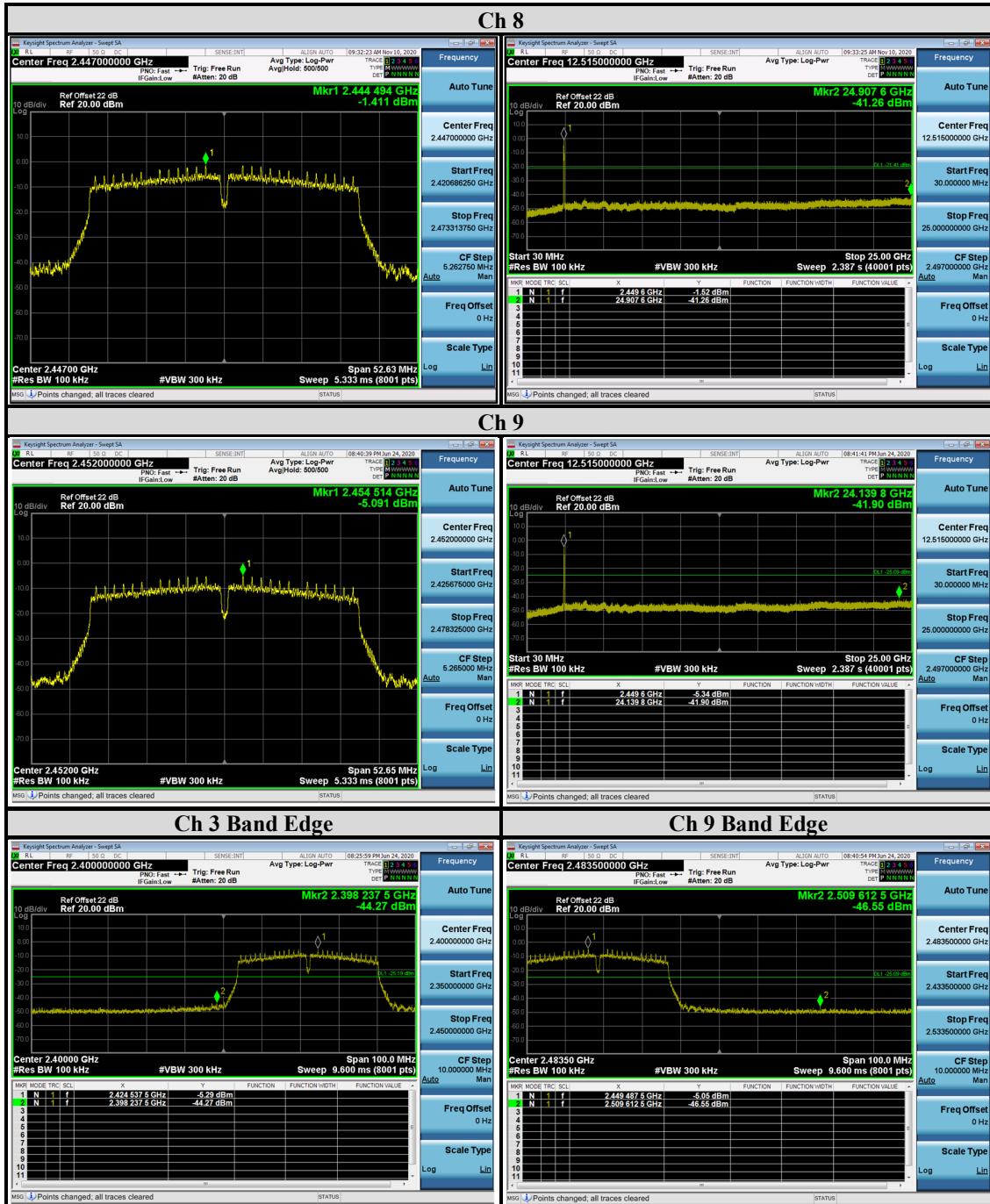
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9.5. Radiated Spurious Emission

Requirements

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency(MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB_{uV}/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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Test Procedures

[For 9 kHz ~ 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 30MHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

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Note:

- a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- b. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

Configuration	Average	
	RBW	VBW
802.11b	1MHz	10 Hz
802.11g		1 kHz
802.11n (HT20)		2 kHz
802.11n (HT40)		3 kHz

Note: Refer to section 6.6 for duty cycle.

- d. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported.

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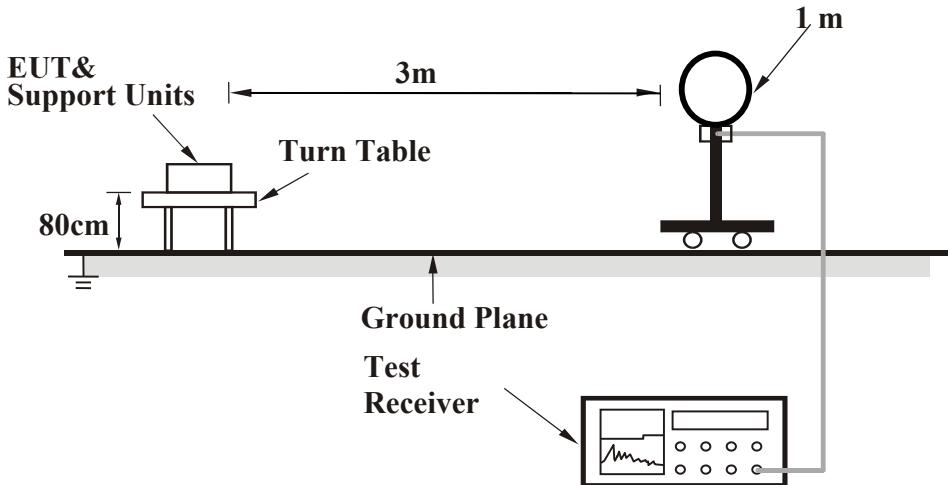
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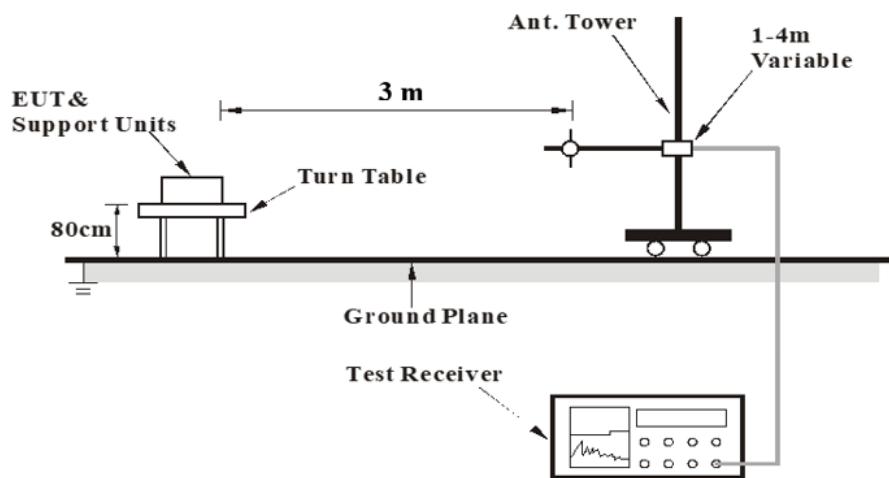
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Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



<Frequency Range 30 MHz ~ 1 GHz >



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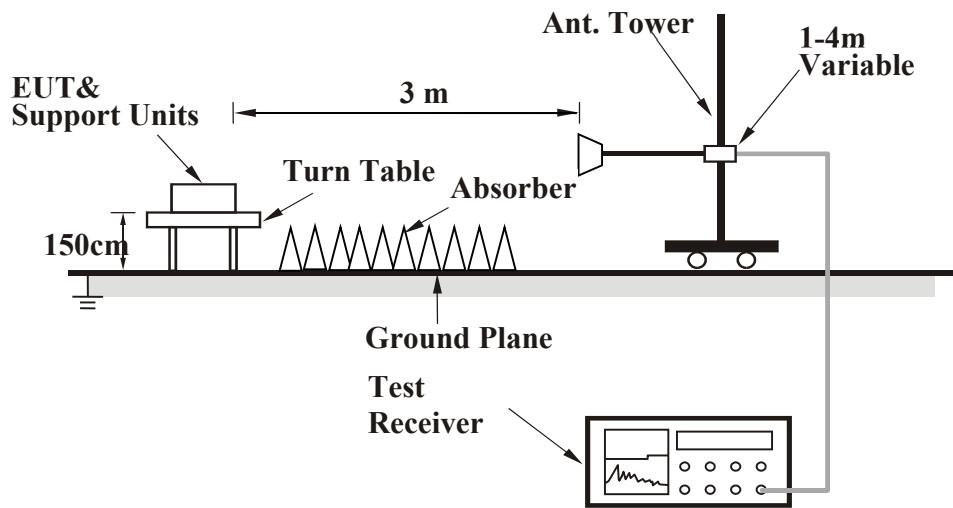
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<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations.

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Test Data

Above 1GHz Data

Non-Beamforming Mode

802.11b

EUT Test Condition		Measurement Detail		
Channel	Channel 1	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2313.4	48.67	3.76	52.43	74	-21.57	Peak
@	2412	97.71	3.81	101.52	-	-	Peak
-	2375.2	35.9	3.82	39.72	54	-14.28	Average
@	2412	94.3	3.81	98.11	-	-	Average
-	4824	51.31	-0.65	50.66	54	-3.34	Average
-	4824	54.67	-0.65	54.02	74	-19.98	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2386	49.89	3.84	53.73	74	-20.27	Peak
@	2412	107.63	3.81	111.44	-	-	Peak
-	2390	41.49	3.84	45.33	54	-8.67	Average
@	2412	103.88	3.81	107.69	-	-	Average
*	4824	53.79	-0.65	53.14	74	-20.86	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail		
Channel	Channel 6	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2316	48.03	3.76	51.79	74	-22.21	Peak
@	2437	99.68	3.74	103.42	-	-	Peak
-	2490.6	47.32	3.73	51.05	74	-22.95	Peak
-	2383.4	35.97	3.83	39.8	54	-14.2	Average
@	2437	96.36	3.74	100.1	-	-	Average
-	2489.8	36.24	3.73	39.97	54	-14.03	Average
*	4874	54.42	-0.58	53.84	74	-20.16	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2358.8	48.57	3.8	52.37	74	-21.63	Peak
@	2437	107.84	3.74	111.58	-	-	Peak
-	2491.6	51.75	3.73	55.48	74	-18.52	Peak
-	2357.8	38.61	3.8	42.41	54	-11.59	Average
@	2437	105.19	3.74	108.93	-	-	Average
-	2492	39.08	3.74	42.82	54	-11.18	Average
*	4874	53.83	-0.58	53.25	74	-20.75	Peak
*	7311	42.95	6.49	49.44	74	-24.56	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail		
Channel	Channel 11	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2462	98.69	3.71	102.4	-	-	Peak
-	2497.6	47.66	3.73	51.39	74	-22.61	Peak
@	2462	95.36	3.71	99.07	-	-	Average
-	2496.2	36.3	3.74	40.04	54	-13.96	Average
*	4924	52.21	-0.55	51.66	74	-22.34	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2462	108	3.71	111.71	-	-	Peak
-	2495.2	52.11	3.74	55.85	74	-18.15	Peak
@	2462	104.44	3.71	108.15	-	-	Average
-	2486.6	45.74	3.73	49.47	54	-4.53	Average
*	4924	51.38	-0.55	50.83	74	-23.17	Peak
*	7386	40.34	6.74	47.08	74	-26.92	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. "*" : The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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802.11g

EUT Test Condition		Measurement Detail			
Channel	Channel 1	Frequency Range	1 GHz ~ 26.5 GHz		

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2374.4	48.02	3.82	51.84	74	-22.16	Peak
@	2412	98.96	3.81	102.77	-	-	Peak
-	2389.8	37.1	3.84	40.94	54	-13.06	Average
@	2412	89.72	3.81	93.53	-	-	Average
*	4824	48.49	-0.65	47.84	74	-26.16	Peak
*	7236	41.11	6.32	47.43	82.77	-35.34	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2390	61.39	3.84	65.23	74	-8.77	Peak
@	2412	106.25	3.81	110.06	-	-	Peak
-	2390	49.61	3.84	53.45	54	-0.55	Average
@	2412	98.59	3.81	102.4	-	-	Average
*	4824	48.08	-0.65	47.43	74	-26.57	Peak
*	7236	40.54	6.32	46.86	82.77	-35.91	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. "*" : The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail		
Channel	Channel 2	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2335.8	40.83	6.74	47.57	74	-26.43	Peak
@	2417	95.7	6.66	102.36	-	-	Peak
-	2389.6	33.59	6.74	40.33	54	-13.67	Average
@	2417	87.49	6.66	94.15	-	-	Average
*	4834	41.97	3.56	45.53	74	-28.47	Peak
*	7251	33.28	12.1	45.38	74	-28.62	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2390	62.59	6.74	69.33	74	-4.67	Peak
@	2417	105.3	6.66	111.96	-	-	Peak
-	2390	45.17	6.74	51.91	54	-2.09	Average
@	2417	98.55	6.66	105.21	-	-	Average
*	4834	46.28	3.56	49.84	74	-24.16	Peak
*	7251	36.57	12.1	48.67	74	-25.33	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. "*" : The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail		
Channel	Channel 6	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2381.4	48.6	3.83	52.43	74	-21.57	Peak
@	2437	103.36	3.74	107.1	-	-	Peak
-	2486	47.88	3.73	51.61	74	-22.39	Peak
-	2383	36.99	3.83	40.82	54	-13.18	Average
@	2437	95.79	3.74	99.53	-	-	Average
-	2485	37.46	3.72	41.18	54	-12.82	Average
*	4874	54.26	-0.58	53.68	74	-20.32	Peak
*	7311	47.31	6.49	53.8	74	-20.2	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2389.4	56.56	3.84	60.4	74	-13.6	Peak
@	2437	111.26	3.74	115	-	-	Peak
-	2491.8	54.71	3.74	58.45	74	-15.55	Peak
-	2390	43.17	3.84	47.01	54	-6.99	Average
@	2437	103.44	3.74	107.18	-	-	Average
-	2483.6	43.75	3.72	47.47	54	-6.53	Average
*	4874	53.13	-0.58	52.55	74	-21.45	Peak
*	7311	47.45	6.49	53.94	74	-20.06	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail		
Channel	Channel 10	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2457	94.92	6.54	101.46	-	-	Peak
-	2485.2	47.77	6.53	54.3	74	-19.7	Peak
@	2457	88.04	6.54	94.58	-	-	Average
-	2484.4	34.75	6.53	41.28	54	-12.72	Average
*	4914	43.38	3.68	47.06	74	-26.94	Peak
*	7371	34.09	12.38	46.47	74	-27.53	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2457	107.51	6.54	114.05	-	-	Peak
-	2483.8	65.82	6.53	72.35	74	-1.65	Peak
@	2457	98.86	6.54	105.4	-	-	Average
-	2484.4	46.63	6.53	53.16	54	-0.84	Average
*	4914	47.16	3.68	50.84	74	-23.16	Peak
*	7371	39.26	12.38	51.64	74	-22.36	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. "*" : The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

Underwriters Laboratories Taiwan Co., Ltd.

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EUT Test Condition		Measurement Detail		
Channel	Channel 11	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2462	97.48	3.71	101.19	-	-	Peak
-	2494.6	48.04	3.73	51.77	74	-22.23	Peak
@	2462	89.84	3.71	93.55	-	-	Average
-	2484.2	37.44	3.72	41.16	54	-12.84	Average
*	4924	46.01	-0.55	45.46	74	-28.54	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2462	107.27	3.71	110.98	-	-	Peak
-	2483.6	64.41	3.72	68.13	74	-5.87	Peak
@	2462	99.34	3.71	103.05	-	-	Average
-	2483.8	48.33	3.72	52.05	54	-1.95	Average
*	4924	51.59	-0.55	51.04	74	-22.96	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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802.11n (HT20)

EUT Test Condition		Measurement Detail					
Channel	Channel 1	Frequency Range		1 GHz ~ 26.5 GHz			

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2342.2	43.95	3.8	47.75	74	-26.25	Peak
@	2412	95.45	3.81	99.26	-	-	Peak
-	2389.6	36.9	3.84	40.74	54	-13.26	Average
@	2412	86	3.81	89.81	-	-	Average
*	4824	44.93	-0.65	44.28	74	-29.72	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2389.8	57.6	3.84	61.44	74	-12.56	Peak
@	2412	103.98	3.81	107.79	-	-	Peak
-	2390	48.69	3.84	52.53	54	-1.47	Average
@	2412	95.73	3.81	99.54	-	-	Average
*	4824	45.56	-0.65	44.91	74	-29.09	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. "*" : The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail		
Channel	Channel 2	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2388.8	46.82	6.73	53.55	74	-20.45	Peak
@	2417	93.32	6.66	99.98	-	-	Peak
-	2390	33.79	6.74	40.53	54	-13.47	Average
@	2417	85.41	6.66	92.07	-	-	Average
*	4834	41.99	3.56	45.55	74	-28.45	Peak
*	7251	33.07	12.1	45.17	74	-28.83	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2389.6	60.41	6.74	67.15	74	-6.85	Peak
@	2417	106.73	6.66	113.39	-	-	Peak
-	2390	46.01	6.74	52.75	54	-1.25	Average
@	2417	97.04	6.66	103.7	-	-	Average
*	4834	45.35	3.56	48.91	74	-25.09	Peak
*	7251	38.03	12.1	50.13	74	-23.87	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. "*" : The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail		
Channel	Channel 6	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2365.6	44.61	3.81	48.42	74	-25.58	Peak
@	2437	103.46	3.74	107.2	-	-	Peak
-	2488	45.29	3.72	49.01	74	-24.99	Peak
-	2357.2	37.37	3.81	41.18	54	-12.82	Average
*	2437	94.15	3.74	97.89	54	43.89	Average
-	2491.8	37.85	3.74	41.59	54	-12.41	Average
*	4874	53.45	-0.58	52.87	74	-21.13	Peak
*	7311	47.32	6.49	53.81	74	-20.19	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2389	54.38	3.84	58.22	74	-15.78	Peak
@	2437	110.67	3.74	114.41	-	-	Peak
-	2485.4	54.02	3.73	57.75	74	-16.25	Peak
-	2389.4	43.53	3.84	47.37	54	-6.63	Average
*	2437	101.13	3.74	104.87	54	50.87	Average
-	2483.6	44.75	3.72	48.47	54	-5.53	Average
*	4874	53.78	-0.58	53.2	74	-20.8	Peak
-	7311	35.15	6.49	41.64	54	-12.36	Average
-	7311	50.5	6.49	56.99	74	-17.01	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. "*" : The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail		
Channel	Channel 10	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2457	92.5	6.54	99.04	-	-	Peak
-	2484	46.76	6.53	53.29	74	-20.71	Peak
@	2457	86.25	6.54	92.79	-	-	Average
-	2484.6	34.64	6.53	41.17	54	-12.83	Average
*	4914	39.43	3.68	43.11	74	-30.89	Peak
*	7371	34.16	12.38	46.54	74	-27.46	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2457	105.39	6.54	111.93	-	-	Peak
-	2483.6	58.72	6.53	65.25	74	-8.75	Peak
@	2457	96.96	6.54	103.5	-	-	Average
-	2483.8	47.09	6.53	53.62	54	-0.38	Average
*	4914	44.1	3.68	47.78	74	-26.22	Peak
*	7371	35.09	12.38	47.47	74	-26.53	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. "*" : The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail		
Channel	Channel 11	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2462	93.51	3.71	97.22	-	-	Peak
-	2484.2	44.27	3.72	47.99	74	-26.01	Peak
@	2462	85.99	3.71	89.7	-	-	Average
-	2488	37.31	3.72	41.03	54	-12.97	Average
*	4924	44.83	-0.55	44.28	74	-29.72	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2462	105.05	3.71	108.76	-	-	Peak
-	2484.8	63.44	3.72	67.16	74	-6.84	Peak
@	2462	96.18	3.71	99.89	-	-	Average
-	2483.6	50.2	3.72	53.92	54	-0.08	Average
*	4924	45.98	-0.55	45.43	74	-28.57	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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802.11n (HT40)

EUT Test Condition		Measurement Detail		
Channel	Channel 3	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2388.8	50.79	3.84	54.63	74	-19.37	Peak
@	2422	91.64	3.78	95.42	-	-	Peak
-	2389.8	39.29	3.84	43.13	54	-10.87	Average
@	2422	82.31	3.78	86.09	-	-	Average
*	4844	41.43	-0.6	40.83	74	-33.17	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2384.2	66.87	3.83	70.7	74	-3.3	Peak
@	2422	101.63	3.78	105.41	-	-	Peak
-	2389.8	50.11	3.84	53.95	54	-0.05	Average
@	2422	91.66	3.78	95.44	-	-	Average
*	4844	41.09	-0.6	40.49	74	-33.51	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. "*" : The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail		
Channel	Channel 4	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2329.6	47.77	6.73	54.5	74	-19.5	Peak
@	2427	86.39	6.63	93.02	-	-	Peak
-	2390	35.23	6.74	41.97	54	-12.03	Average
@	2427	79.2	6.63	85.83	-	-	Average
*	4854	37.29	3.61	40.9	74	-33.1	Peak
*	7281	33.42	12.14	45.56	74	-28.44	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2389.6	58.89	6.74	65.63	74	-8.37	Peak
@	2427	100.28	6.63	106.91	-	-	Peak
-	2390	46.33	6.74	53.07	54	-0.93	Average
@	2427	89.85	6.63	96.48	-	-	Average
*	4854	41.46	3.61	45.07	74	-28.93	Peak
*	7281	33.57	12.14	45.71	74	-28.29	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. "*" : The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail		
Channel	Channel 6	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2388.4	45.39	3.84	49.23	74	-24.77	Peak
@	2437	94.59	3.74	98.33	-	-	Peak
-	2490.4	44.35	3.73	48.08	74	-25.92	Peak
-	2389.6	37.83	3.84	41.67	54	-12.33	Average
@	2437	86.15	3.74	89.89	-	-	Average
-	2483.6	37.88	3.72	41.6	54	-12.4	Average
*	4874	44.11	-0.58	43.53	74	-30.47	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2389.2	60.04	3.84	63.88	74	-10.12	Peak
@	2437	103.94	3.74	107.68	-	-	Peak
-	2484.2	59.24	3.72	62.96	74	-11.04	Peak
-	2390	49.21	3.84	53.05	54	-0.95	Average
*	2437	94.56	3.74	98.3	54	44.3	Average
-	2483.6	48.5	3.72	52.22	54	-1.78	Average
*	4874	45.91	-0.58	45.33	74	-28.67	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. "*" : The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail		
Channel	Channel 8	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2447	86.2	6.55	92.75	-	-	Peak
-	2497.4	47.4	6.53	53.93	74	-20.07	Peak
@	2447	79.96	6.55	86.51	-	-	Average
-	2484.6	34.28	6.53	40.81	54	-13.19	Average
*	4894	37.64	3.66	41.3	74	-32.7	Peak
*	7341	32.79	12.29	45.08	74	-28.92	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2447	98.13	6.55	104.68	-	-	Peak
-	2484.2	59.19	6.53	65.72	74	-8.28	Peak
@	2447	90.48	6.55	97.03	-	-	Average
-	2483.6	46.2	6.53	52.73	54	-1.27	Average
*	4894	40.58	3.66	44.24	74	-29.76	Peak
*	7341	34.07	12.29	46.36	74	-27.64	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. "*" : The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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Doc No: 17-EM-F0876 / 5.0



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EUT Test Condition		Measurement Detail		
Channel	Channel 9	Frequency Range	1 GHz ~ 26.5 GHz	

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2452	90.21	3.7	93.91	-	-	Peak
-	2487.2	44.05	3.73	47.78	74	-26.22	Peak
@	2452	81.09	3.7	84.79	-	-	Average
-	2484.2	37.06	3.72	40.78	54	-13.22	Average
*	4904	41.7	-0.56	41.14	74	-32.86	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2452	101.43	3.7	105.13	-	-	Peak
-	2487.4	60.69	3.73	64.42	74	-9.58	Peak
@	2452	91.39	3.7	95.09	-	-	Average
-	2483.8	49.08	3.72	52.8	54	-1.2	Average
*	4904	40.85	-0.56	40.29	74	-33.71	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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Co-Location Mode

802.11n (HT20) + 802.11a

EUT Test Condition		Measurement Detail					
Channel	Channel 6 + Channel 157	Frequency Range		1 GHz ~ 40 GHz			

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
*	4874	50.57	-0.58	49.99	74	-24.01	Peak
*	11570	35.36	13.33	48.69	54	-5.31	Average
-	11570	52.1	13.33	65.43	74	-8.57	Peak
*	17355	23.99	21.57	45.56	54	-8.44	Average
-	17355	33.89	21.57	55.46	74	-18.54	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
*	4874	47.14	-0.58	46.56	54	-7.44	Average
-	4874	58.86	-0.58	58.28	74	-15.72	Peak
*	11570	40.6	13.33	53.93	54	-0.07	Average
-	11570	56.38	13.33	69.71	74	-4.29	Peak
*	17355	32.41	21.57	53.98	54	-0.02	Average
-	17355	40.37	21.57	61.94	74	-12.06	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

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9 kHz ~ 30 MHz Data

For 9 kHz to 30 MHz radiated emission have performed all modes of operation were investigated. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

No non-compliance noted:

KDB 414788 D01 OATS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- OATs and chamber correlation testing had been performed and chamber measured test results is the worst case test result.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

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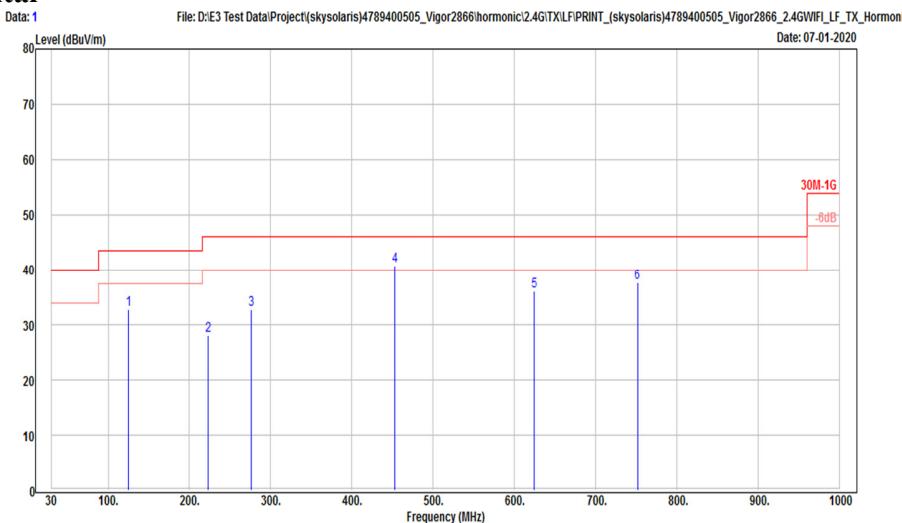
30 MHz ~ 1 GHz Data

Non-Beamforming Mode

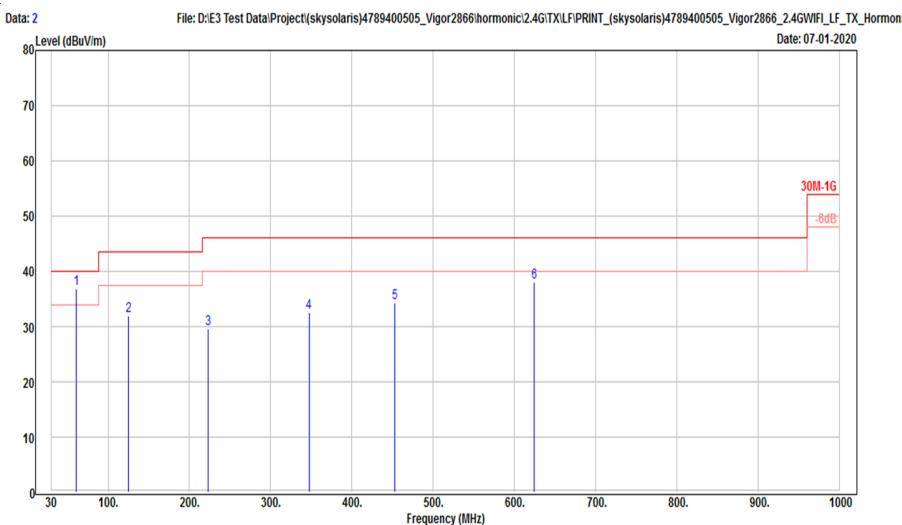
802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	125.06	14.56	18.09	32.65	43.5	-10.85	Peak
-	223.03	10.09	18.01	28.1	46	-17.9	Peak
-	276.38	12.15	20.67	32.82	46	-13.18	Peak
-	452.92	50.66	-9.85	40.81	46	-5.19	Peak
-	624.61	7.2	28.95	36.15	46	-9.85	Peak
-	751.68	6.82	30.77	37.59	46	-8.41	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	61.04	52.58	-15.64	36.94	40	-3.06	Peak
-	125.06	13.91	18.09	32	43.5	-11.5	Peak
-	223.03	46.68	-17.08	29.6	46	-16.4	Peak
-	347.19	45.14	-12.58	32.56	46	-13.44	Peak
-	452.92	9.31	24.95	34.26	46	-11.74	Peak
-	624.61	43.69	-5.6	38.09	46	-7.91	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with QP limit, QP result is deemed to comply with QP limit.
5. The other emission levels were very low against the limit.

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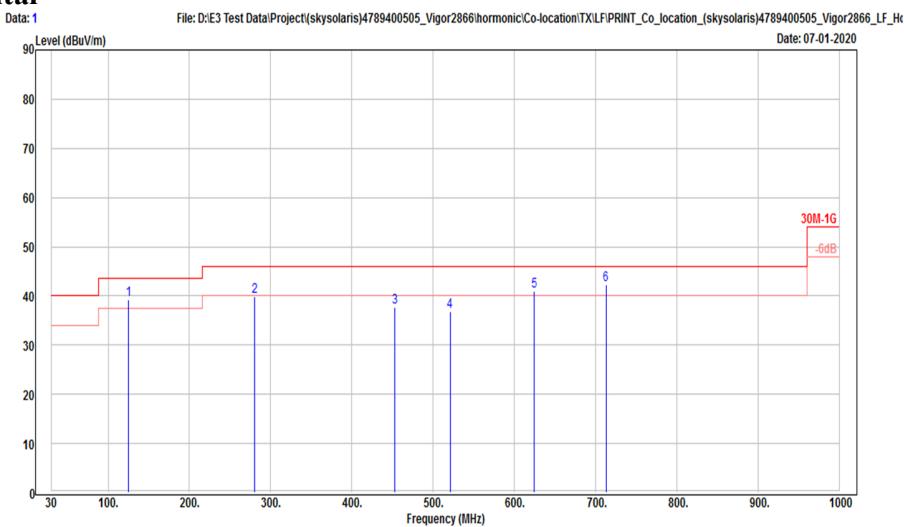
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Co-Location Mode

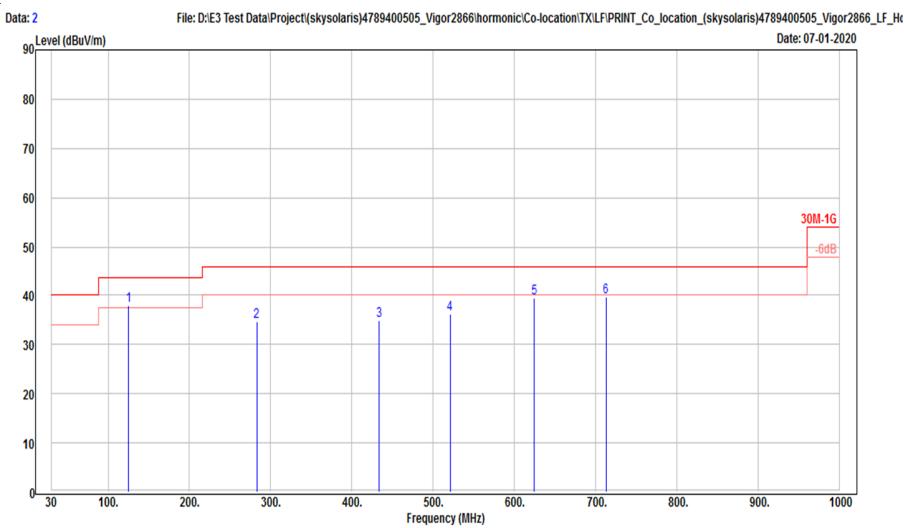
802.11n (HT20) + 802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 6 + Channel 157	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	125.06	53.25	-13.95	39.3	43.5	-4.2	Peak
-	280.26	51.04	-11.14	39.9	46	-6.1	Peak
-	452.92	44.29	-6.68	37.61	46	-8.39	Peak
-	520.82	41.8	-4.97	36.83	46	-9.17	Peak
-	624.61	43.56	-2.49	41.07	46	-4.93	Peak
-	712.88	43.95	-1.59	42.36	46	-3.64	Peak

Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	125.06	51.89	-13.95	37.94	43.5	-5.56	Peak
-	283.17	45.74	-11.13	34.61	46	-11.39	Peak
-	433.52	42.09	-7.24	34.85	46	-11.15	Peak
-	520.82	41.2	-4.97	36.23	46	-9.77	Peak
-	624.61	41.95	-2.49	39.46	46	-6.54	Peak
-	712.88	41.22	-1.59	39.63	46	-6.37	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with QP limit, QP result is deemed to comply with QP limit.
5. The other emission levels were very low against the limit.

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9.6. AC Power Line Conducted Emission

Requirements

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	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.

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

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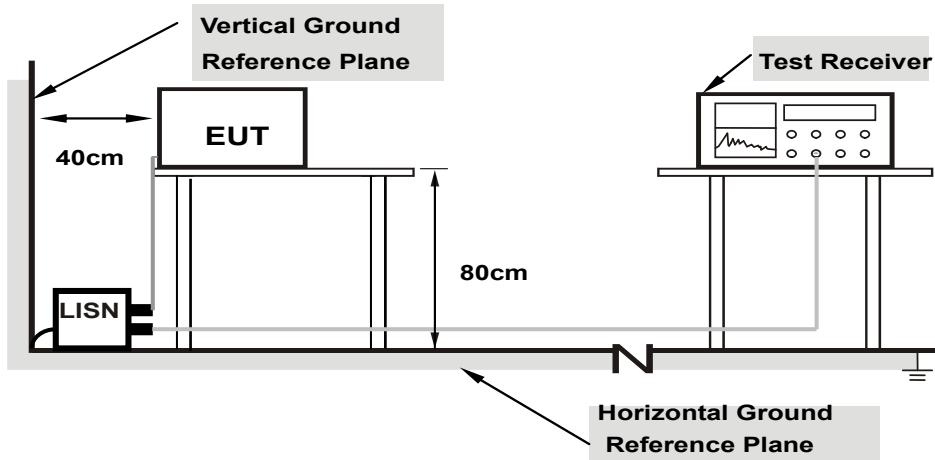
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Test Setup



Note: 1. Support units were connected to second LISN.

For the actual test configuration, please refer to the Setup Configurations.

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Test Data

Non-Beamforming Mode

802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	150 kHz ~ 30 MHz

Phase of Power : Line (L)



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No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1567	32.74	19.47	52.21	65.64	-13.43	QP
2	0.1567	18.19	19.47	37.66	55.64	-17.98	AVG
3	0.3871	21.94	19.47	41.41	58.13	-16.72	QP
4	0.3871	12.24	19.47	31.71	48.13	-16.42	AVG
5	0.4926	15.07	19.48	34.55	56.12	-21.57	QP
6	0.4926	6.43	19.48	25.91	46.12	-20.21	AVG
7	0.6297	13.13	19.48	32.61	56.00	-23.39	QP
8	0.6297	4.28	19.48	23.76	46.00	-22.24	AVG
9	2.0172	13.25	19.53	32.78	56.00	-23.22	QP
10	2.0172	6.88	19.53	26.41	46.00	-19.59	AVG
11	3.1460	24.04	19.55	43.59	56.00	-12.41	QP
12	3.1460	14.04	19.55	33.59	46.00	-12.41	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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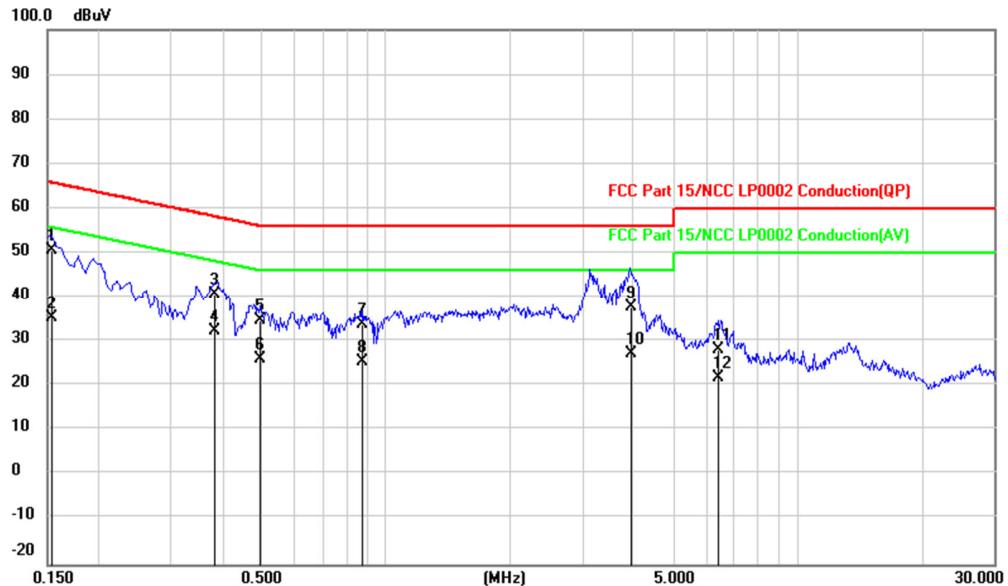
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Phase of Power : Neutral (N)



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No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1545	31.29	19.47	50.76	65.75	-14.99	QP
2	0.1545	15.77	19.47	35.24	55.75	-20.51	AVG
3	0.3815	21.20	19.48	40.68	58.25	-17.57	QP
4	0.3815	12.76	19.48	32.24	48.25	-16.01	AVG
5	0.4913	15.41	19.49	34.90	56.15	-21.25	QP
6	0.4913	6.62	19.49	26.11	46.15	-20.04	AVG
7	0.8816	14.34	19.50	33.84	56.00	-22.16	QP
8	0.8816	6.04	19.50	25.54	46.00	-20.46	AVG
9	3.9292	18.15	19.59	37.74	56.00	-18.26	QP
10	3.9292	7.73	19.59	27.32	46.00	-18.68	AVG
11	6.4468	8.40	19.64	28.04	60.00	-31.96	QP
12	6.4468	2.32	19.64	21.96	50.00	-28.04	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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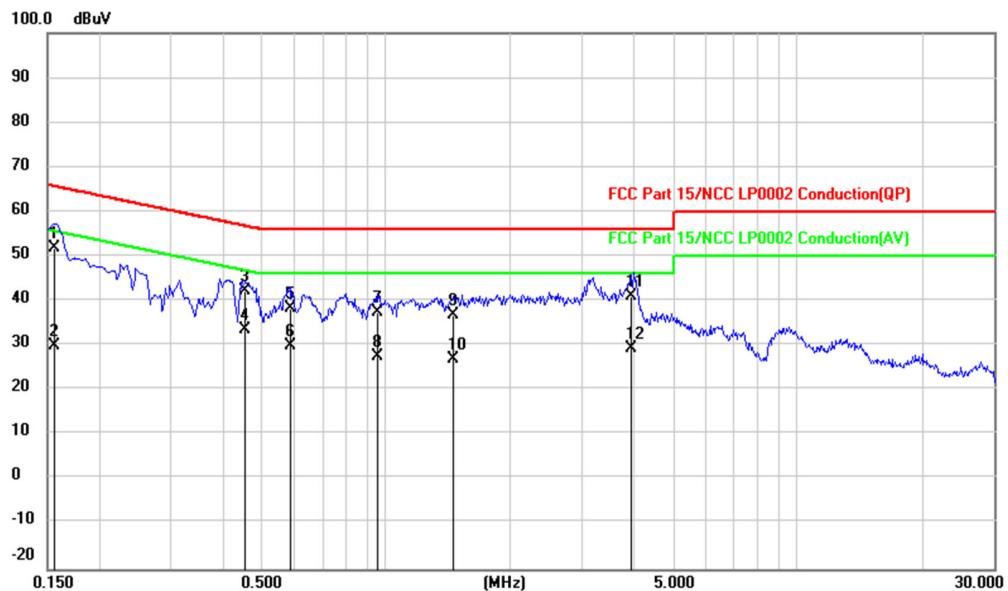
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Co-Location Mode

802.11n (HT20) + 802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 6 + Channel 157	Frequency Range	150 kHz ~ 30 MHz

Phase of Power : Line (L)



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No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1554	32.28	19.47	51.75	65.71	-13.96	QP
2	0.1554	10.35	19.47	29.82	55.71	-25.89	AVG
3	0.4507	22.92	19.48	42.40	56.86	-14.46	QP
4	0.4507	14.02	19.48	33.50	46.86	-13.36	AVG
5	0.5852	18.92	19.48	38.40	56.00	-17.60	QP
6	0.5852	10.58	19.48	30.06	46.00	-15.94	AVG
7	0.9488	17.84	19.50	37.34	56.00	-18.66	QP
8	0.9488	7.97	19.50	27.47	46.00	-18.53	AVG
9	1.4561	17.46	19.51	36.97	56.00	-19.03	QP
10	1.4561	7.58	19.51	27.09	46.00	-18.91	AVG
11	3.9278	21.46	19.58	41.04	56.00	-14.96	QP
12	3.9278	9.77	19.58	29.35	46.00	-16.65	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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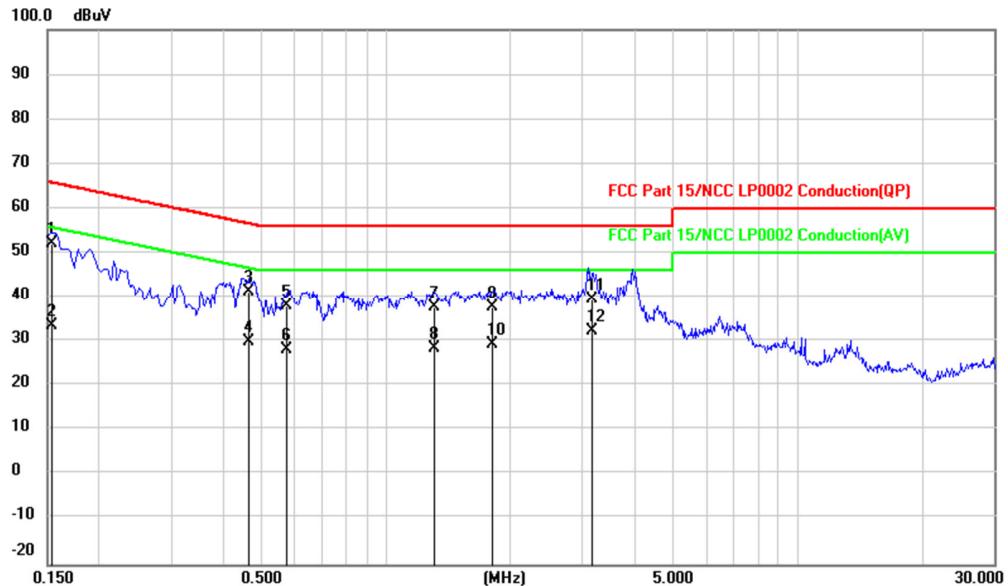
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Phase of Power : Neutral (N)



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No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1537	32.54	19.47	52.01	65.80	-13.79	QP
2	0.1537	13.98	19.47	33.45	55.80	-22.35	AVG
3	0.4625	21.82	19.49	41.31	56.65	-15.34	QP
4	0.4625	10.51	19.49	30.00	46.65	-16.65	AVG
5	0.5755	18.57	19.49	38.06	56.00	-17.94	QP
6	0.5755	8.62	19.49	28.11	46.00	-17.89	AVG
7	1.3102	18.22	19.51	37.73	56.00	-18.27	QP
8	1.3102	8.96	19.51	28.47	46.00	-17.53	AVG
9	1.8179	18.33	19.54	37.87	56.00	-18.13	QP
10	1.8179	9.79	19.54	29.33	46.00	-16.67	AVG
11	3.1673	20.00	19.57	39.57	56.00	-16.43	QP
12	3.1673	12.91	19.57	32.48	46.00	-13.52	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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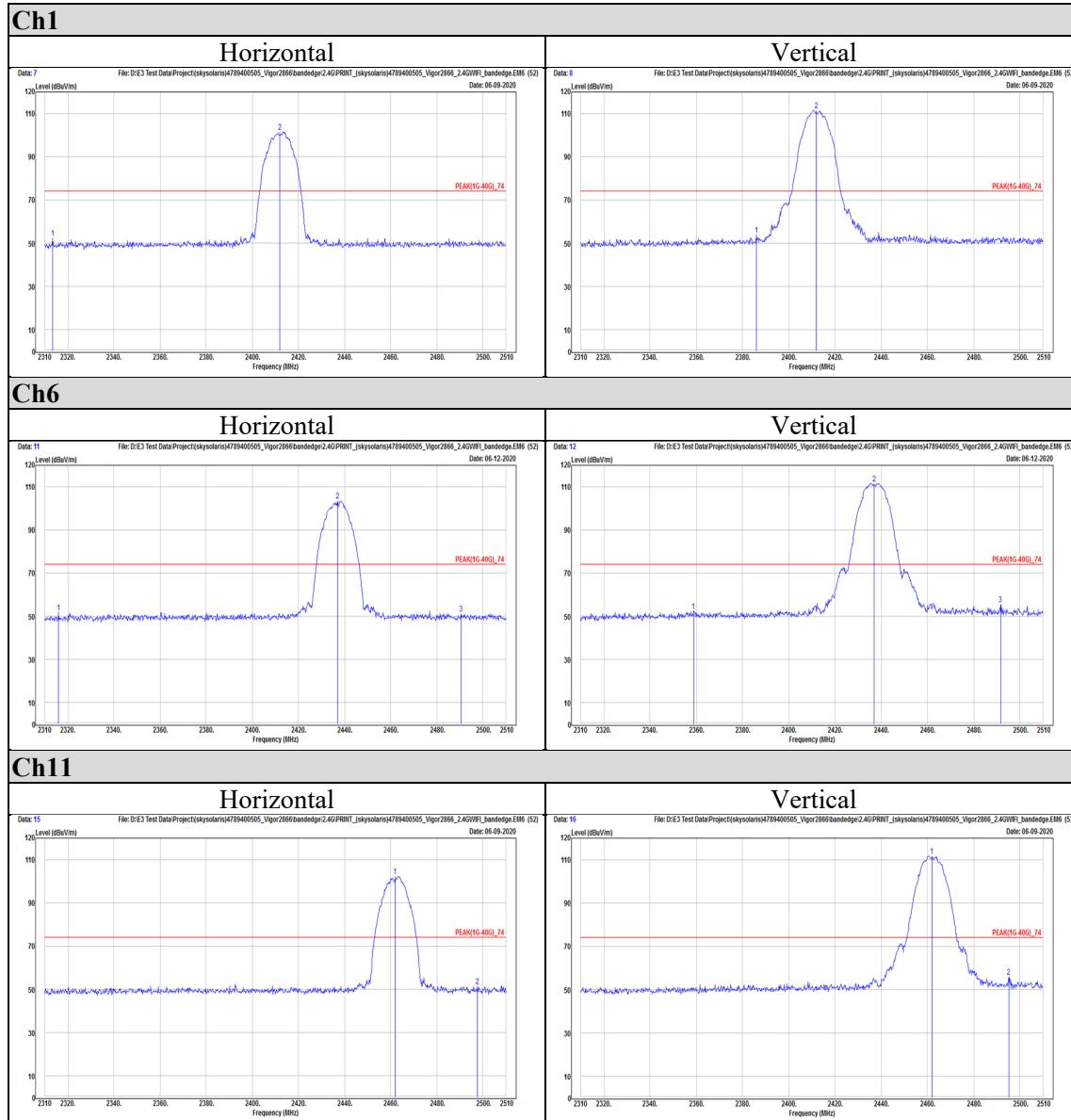
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Appendix I Radiated Band Edge Measurement

Non-Beamforming Mode

802.11b

Peak



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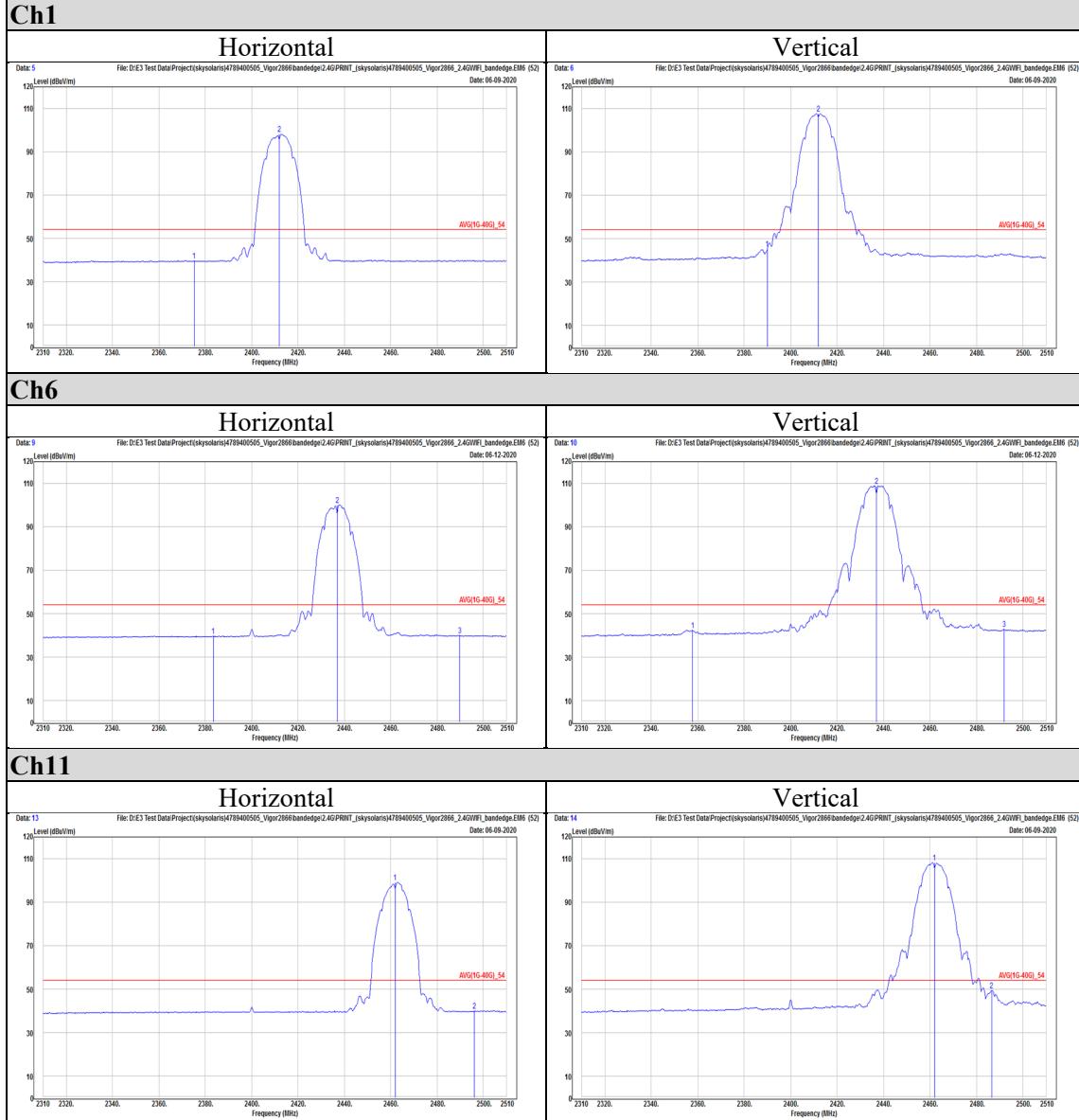
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Average



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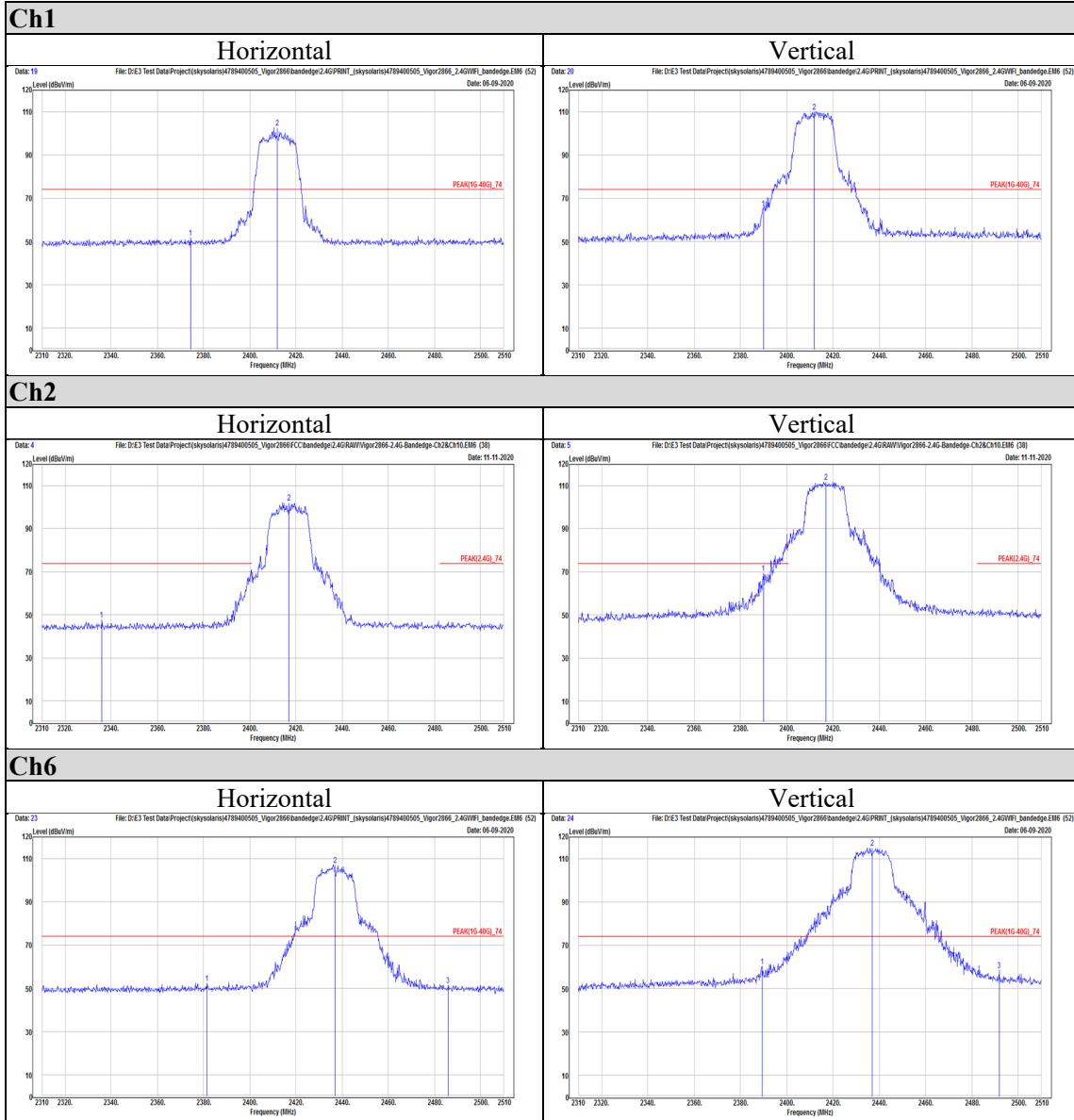
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802.11g

Peak



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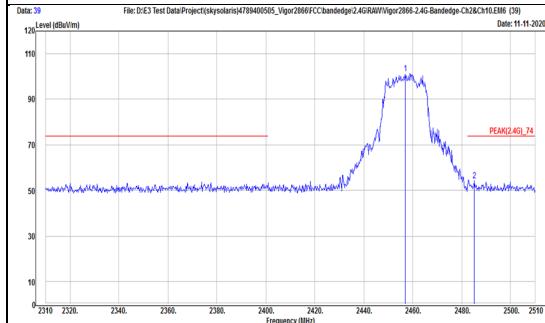
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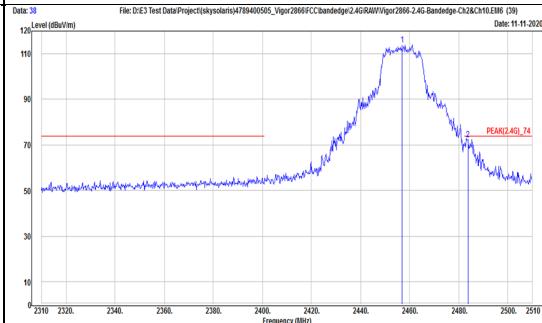
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Ch10

Horizontal

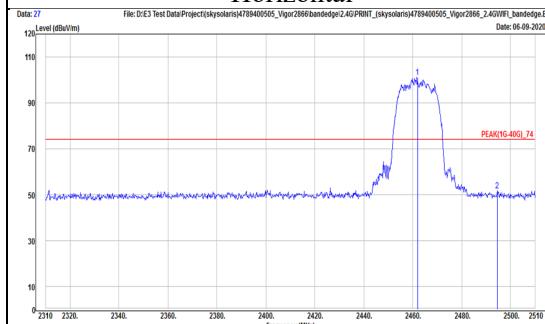


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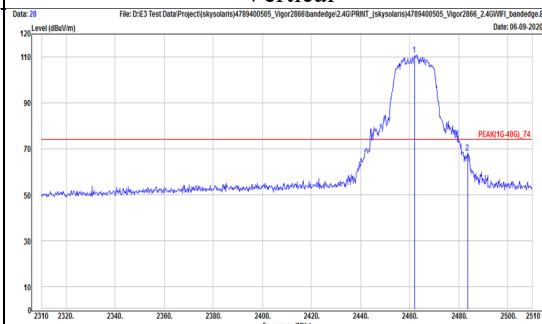


Ch11

Horizontal



Vertical



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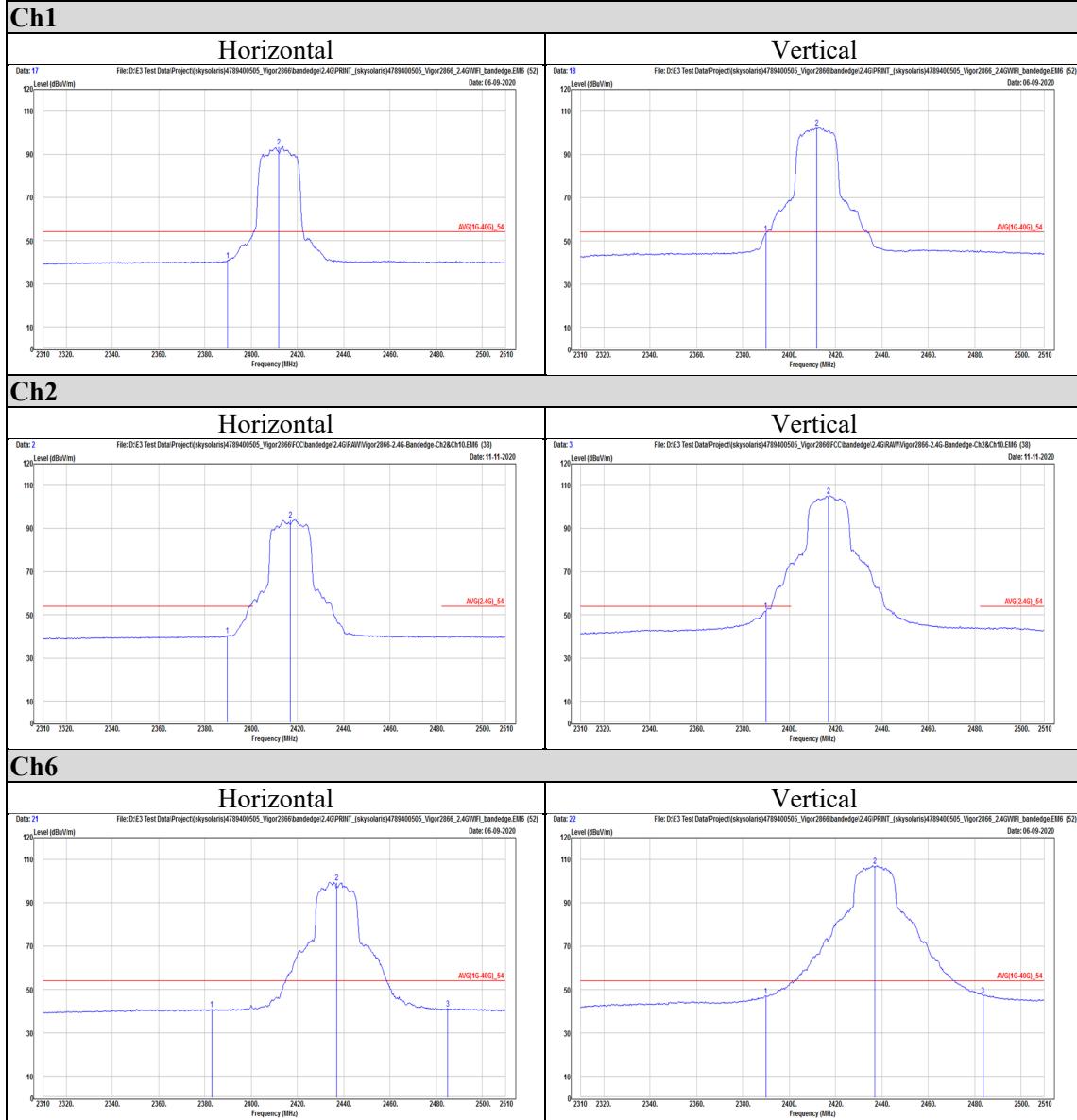
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Average



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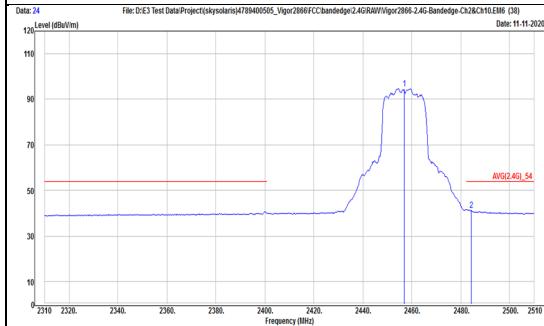
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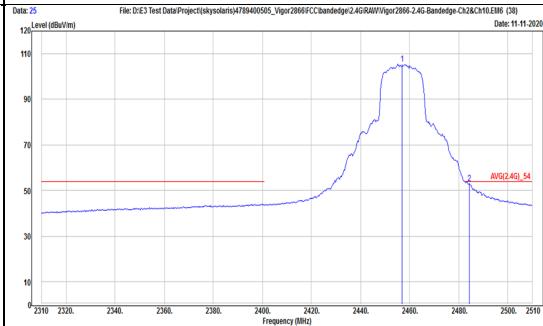
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Ch10

Horizontal

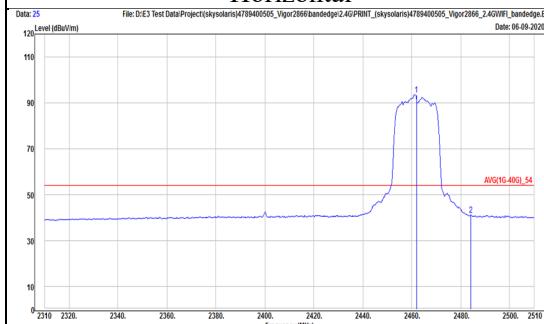


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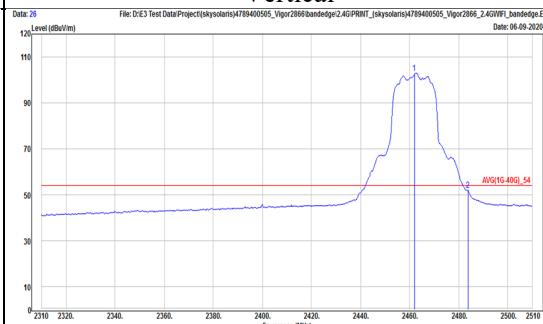


Ch11

Horizontal



Vertical



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