8. RADIATED TEST RESULTS

LIMITS

Please refer to FCC §15.205 and §15.209

Please refer to RSS-GEN Clause 8.9

Radiation Disturbance Test Limit for FCC (Class B)(9KHz-1GHz)

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
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, 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. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

Radiation Disturbance Test Limit for FCC (Above 1G)

Frequency (MHz)	dB(uV/m) (at 3 meters)	
	Peak	Average
Above 1000	74	54

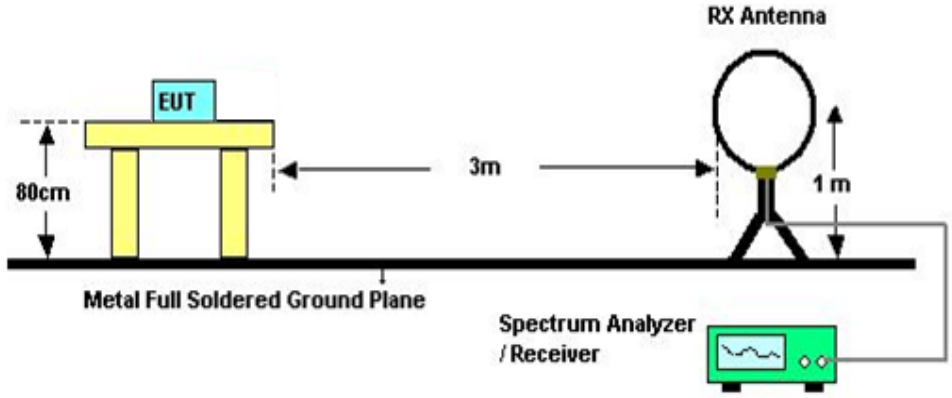
Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

Note: [1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

TEST SETUP AND PROCEDURE

Below 30MHz



The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

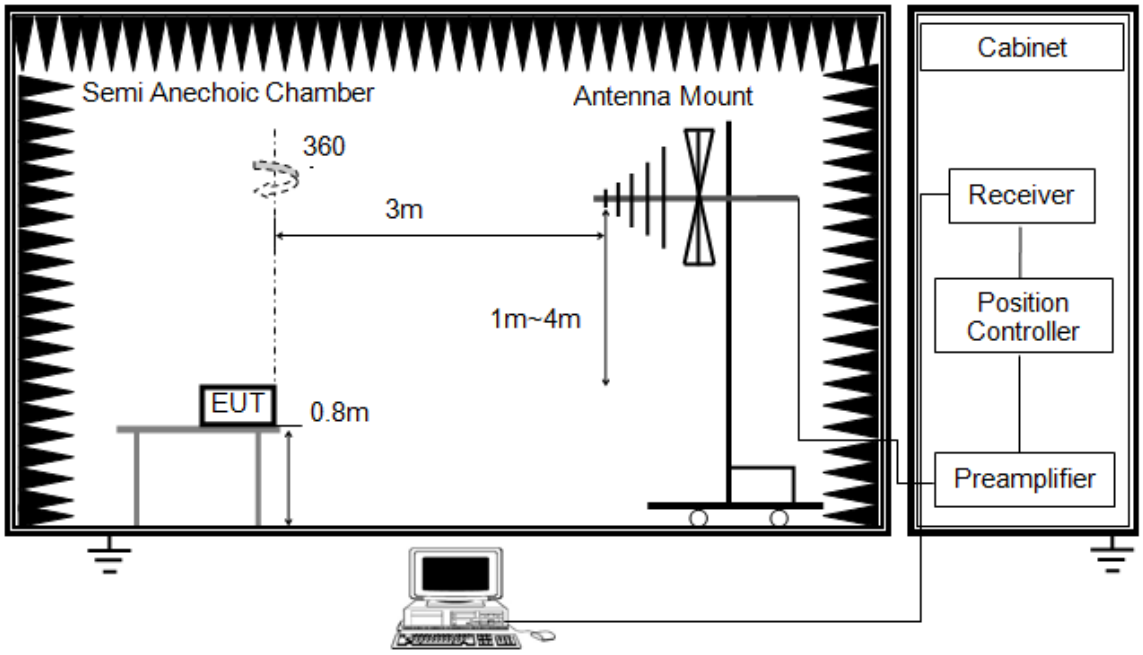
3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. 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 3 dB 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.

6. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

Below 1G



The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

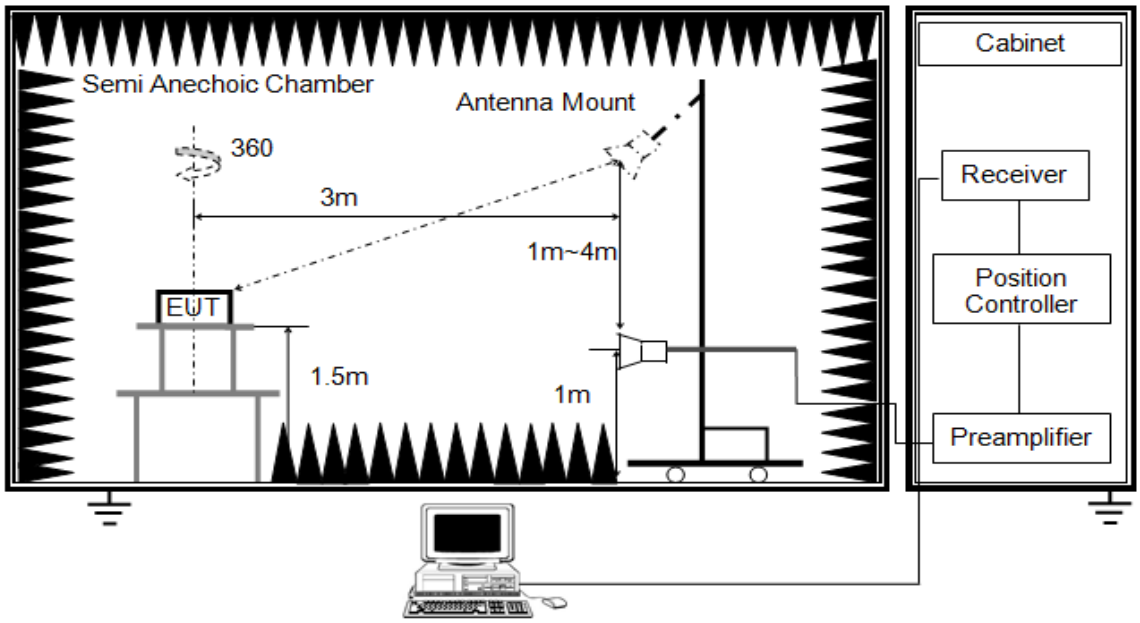
3. The EUT was placed on a turntable with 0.8 meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. 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 3 dB 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.

6. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration)

ABOVE 1G



The setting of the spectrum analyser

RBW	1M
VBW	PEAK: 3M AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

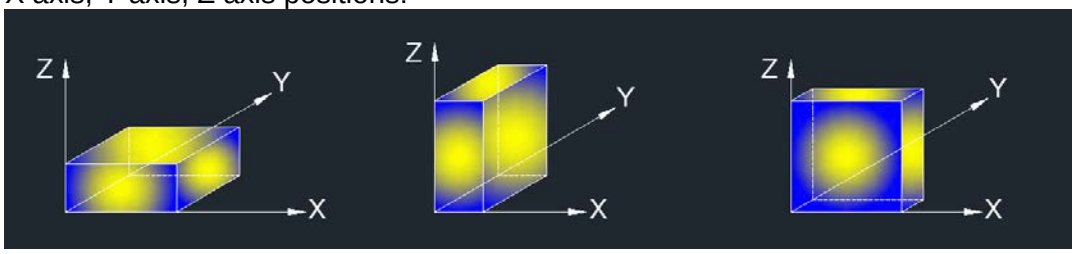
5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. 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 the Duty Cycle and Correction Factor please refer to clause 7.1.ON TIME AND DUTY CYCLE. If the EUT is configured to transmit with D ≥ 98%, then set VBW ≤ RBW / 100, but not less than 10 Hz. If the EUT D is < 98%, then set

VBW ≥ 1 / T.

7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

X axis, Y axis, Z axis positions:



Note1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (x axis) data recorded in the report

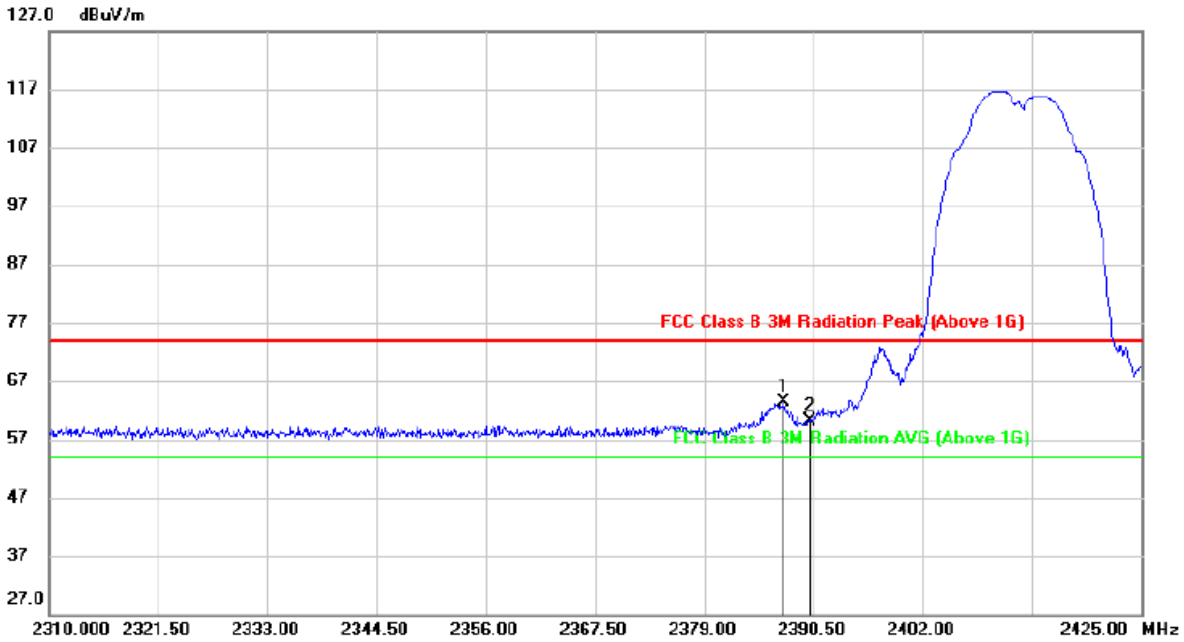
8.1. RESTRICTED BANDEDGE

8.1.1. 802.11b MODE

3TX MODE (WORST-CASE CONFIGURATION)

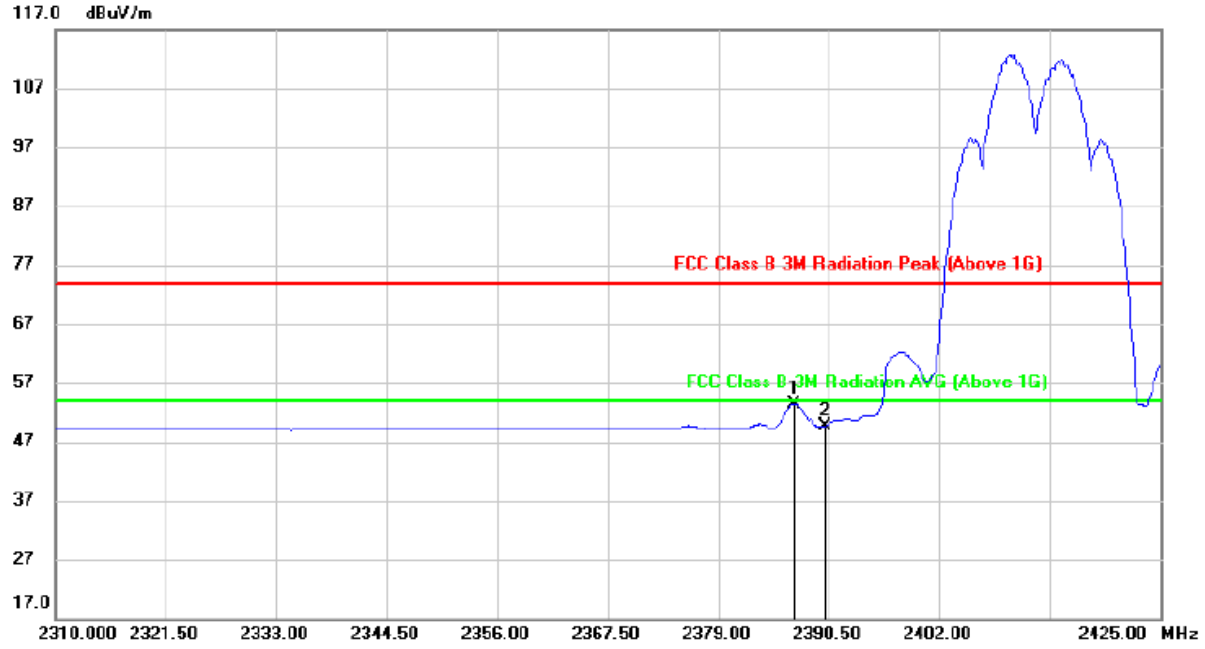
RESTRICTED BANDEDGE (CHANNEL1, HORIZONTAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2387.395	30.14	33.16	63.30	74.00	-10.70	peak			
2		2390.000	26.95	33.14	60.09	74.00	-13.91	peak			

AVG

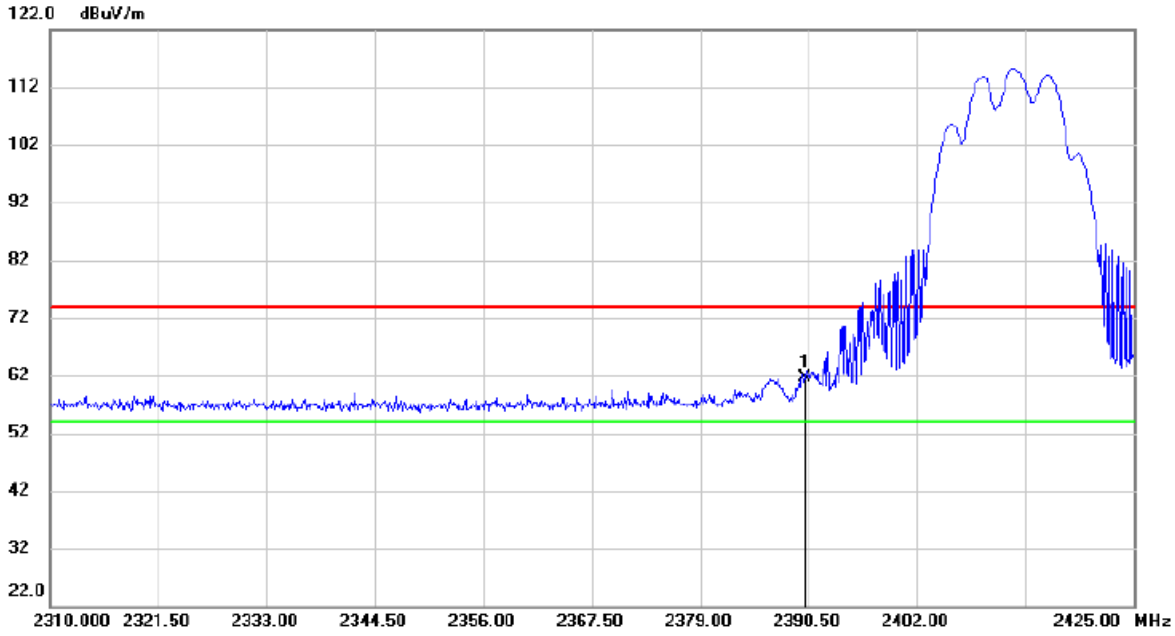


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2386.820	20.33	33.17	53.50	54.00	-0.50	AVG			
2		2390.000	16.52	33.14	49.66	54.00	-4.34	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

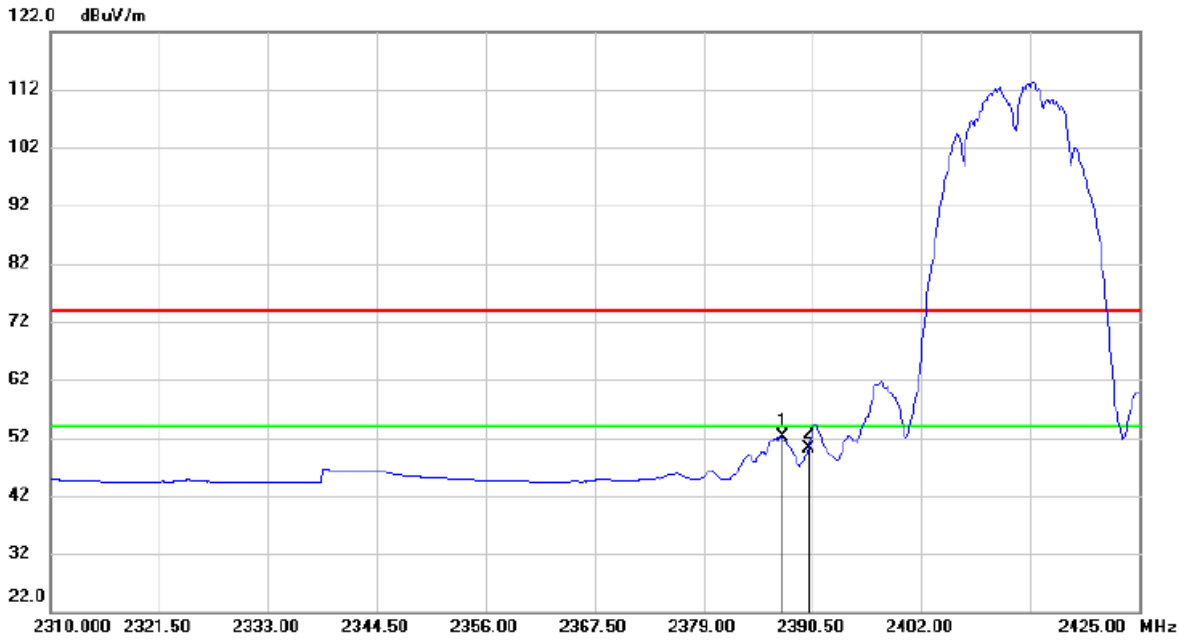
RESTRICTED BANDEDGE (CHANNEL1, VERTICAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	28.50	33.24	61.74	74.00	-12.26	peak			

AVG

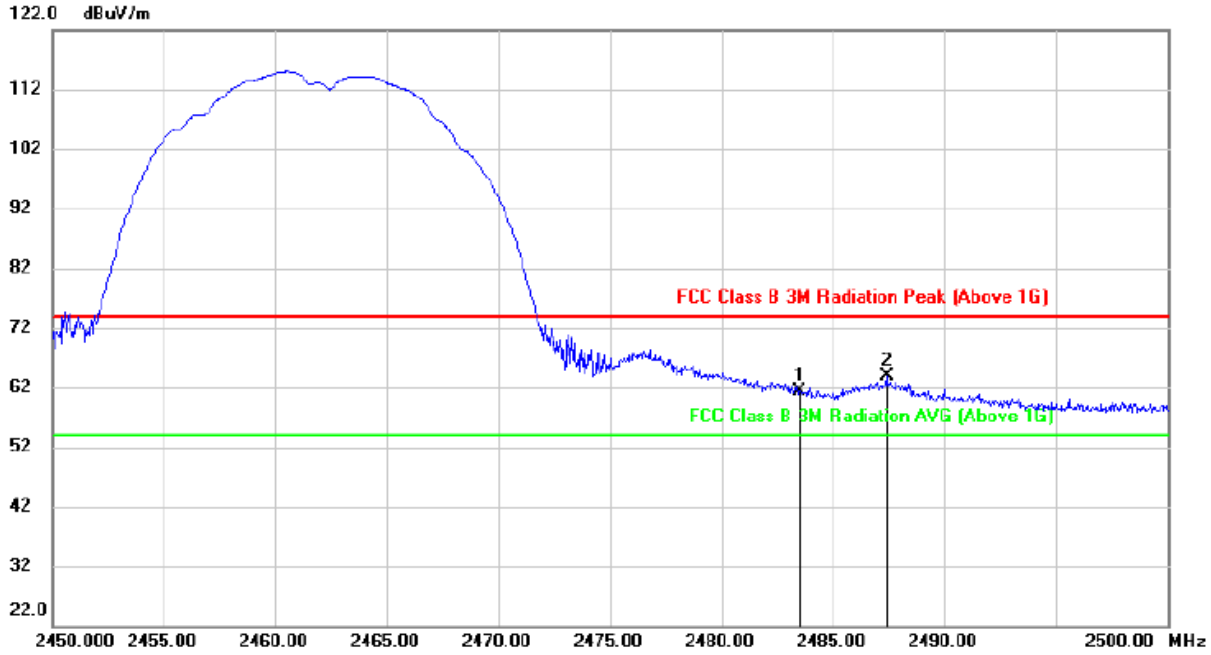


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2387.280	18.82	33.26	52.08	54.00	-1.92	AVG			
2		2390.000	16.94	33.24	50.18	54.00	-3.82	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

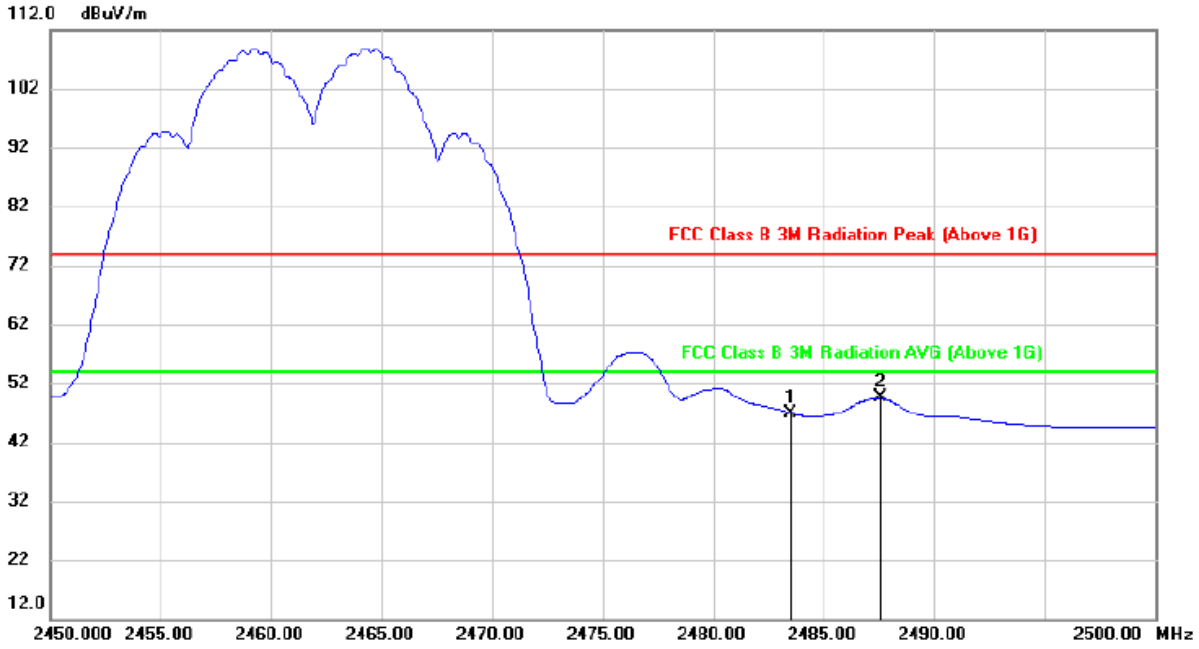
RESTRICTED BANDEDGE (CHANNEL11, HORIZONTAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	28.56	32.78	61.34	74.00	-12.66	peak			
2	*	2487.400	31.16	32.79	63.95	74.00	-10.05	peak			

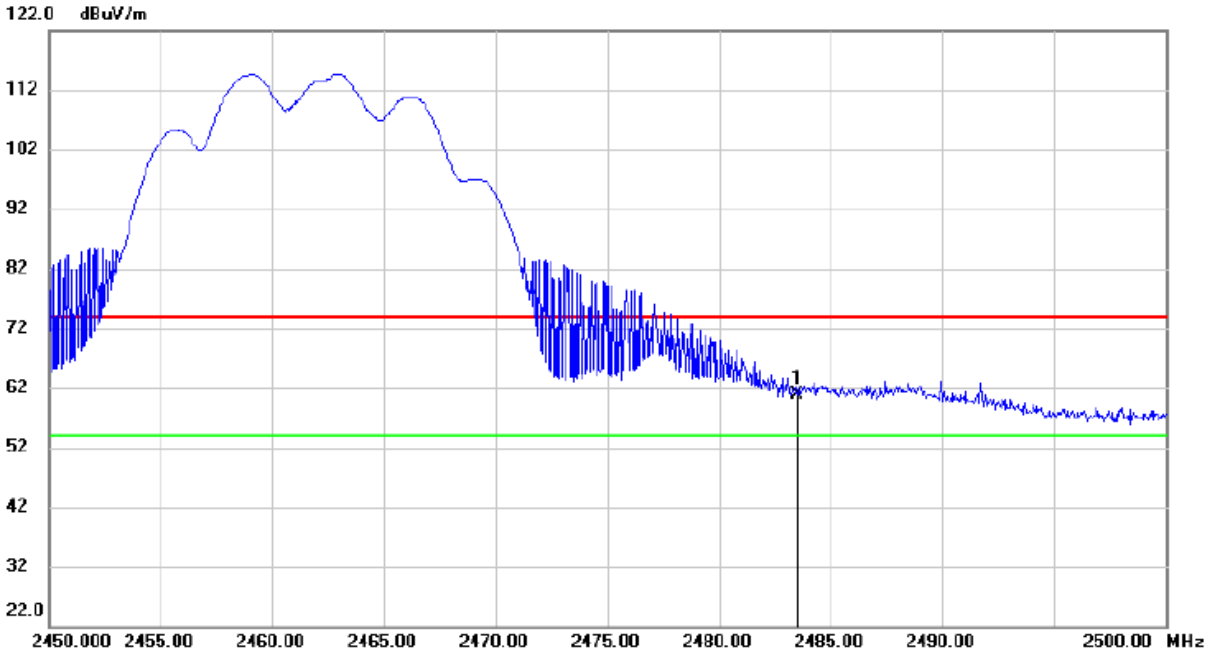
AVG



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	14.20	32.78	46.98	54.00	-7.02	AVG			
2	*	2487.550	16.73	32.78	49.51	54.00	-4.49	AVG			

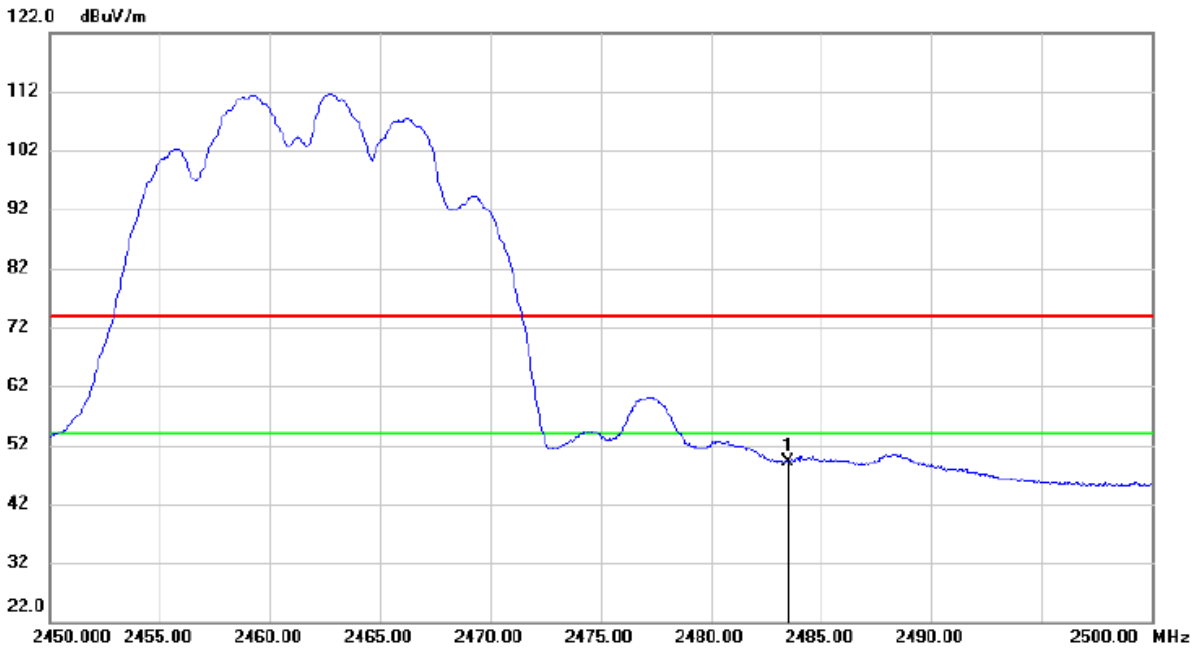
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

RESTRICTED BANDEDGE (CHANNEL11, VERTICAL)
Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	28.09	32.88	60.97	74.00	-13.03	peak			

AVG



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	16.31	32.88	49.19	54.00	-4.81	AVG			

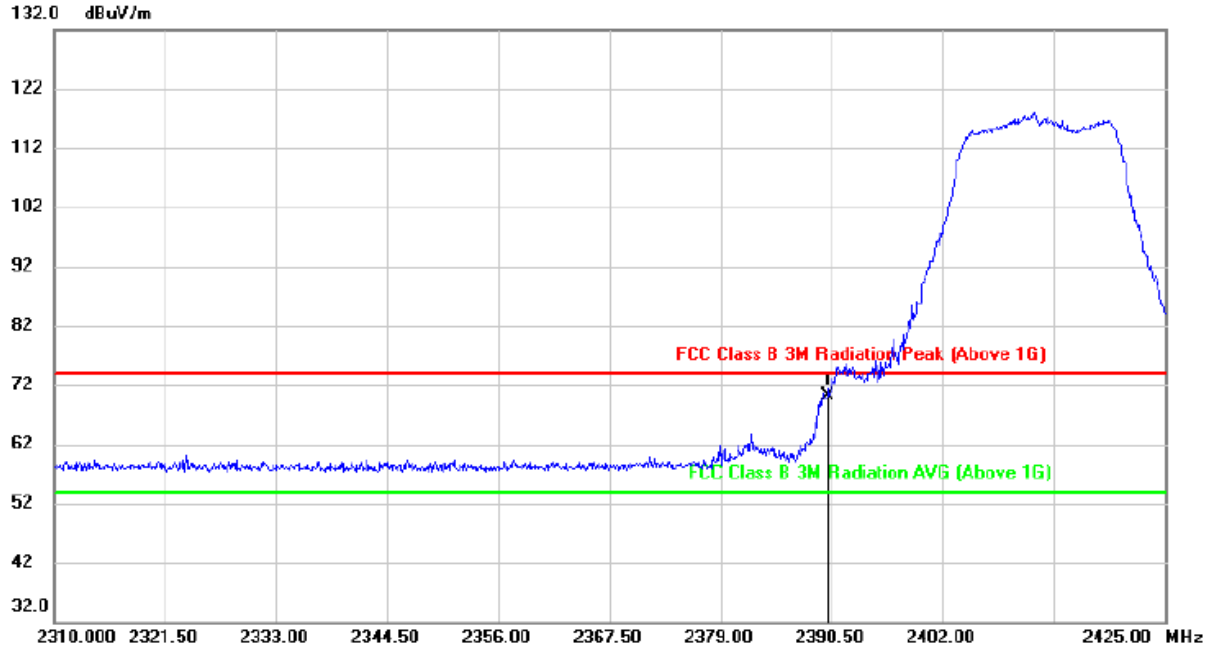
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

8.1.2. 802.11g MODE

3TX Mode (WORST-CASE CONFIGURATION)

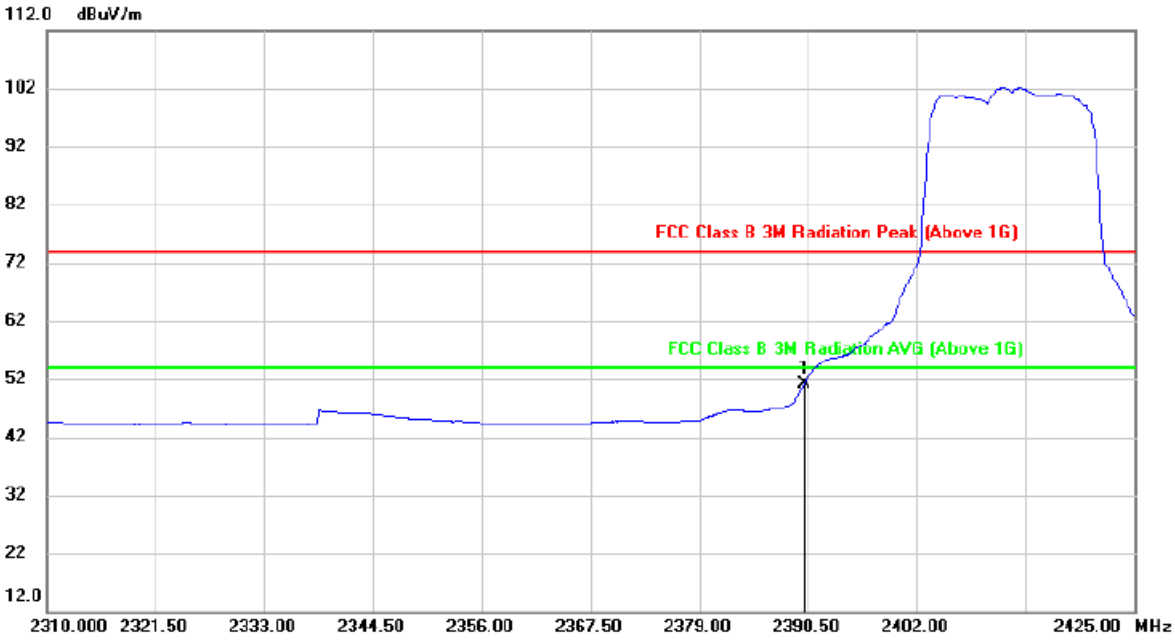
RESTRICTED BANDEDGE (CHANNEL1, HORIZONTAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	36.97	33.14	70.11	74.00	-3.89	peak			

AVG

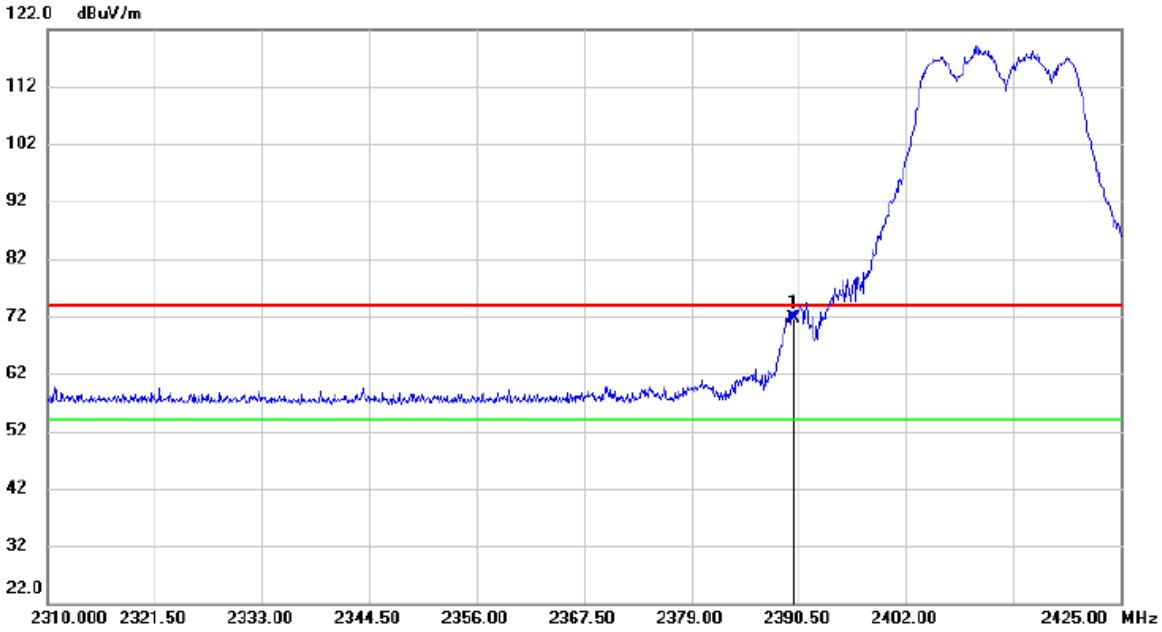


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	17.91	33.14	51.05	54.00	-2.95	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

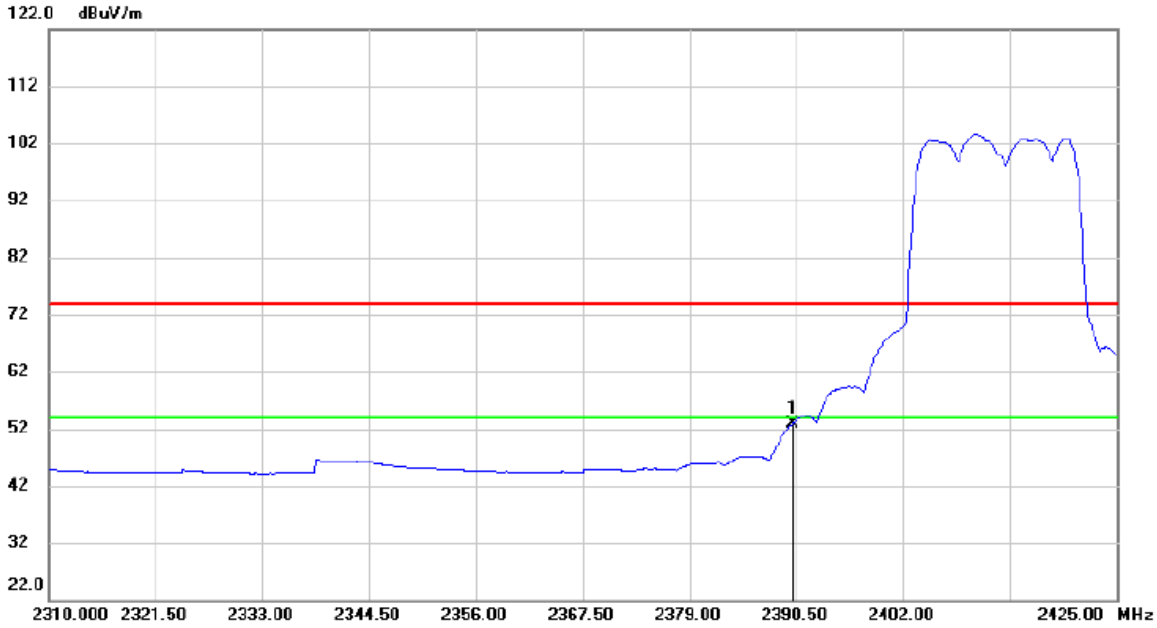
RESTRICTED BANDEDGE (CHANNEL1, VERTICAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	38.45	33.24	71.69	74.00	-2.31	peak			

AVG

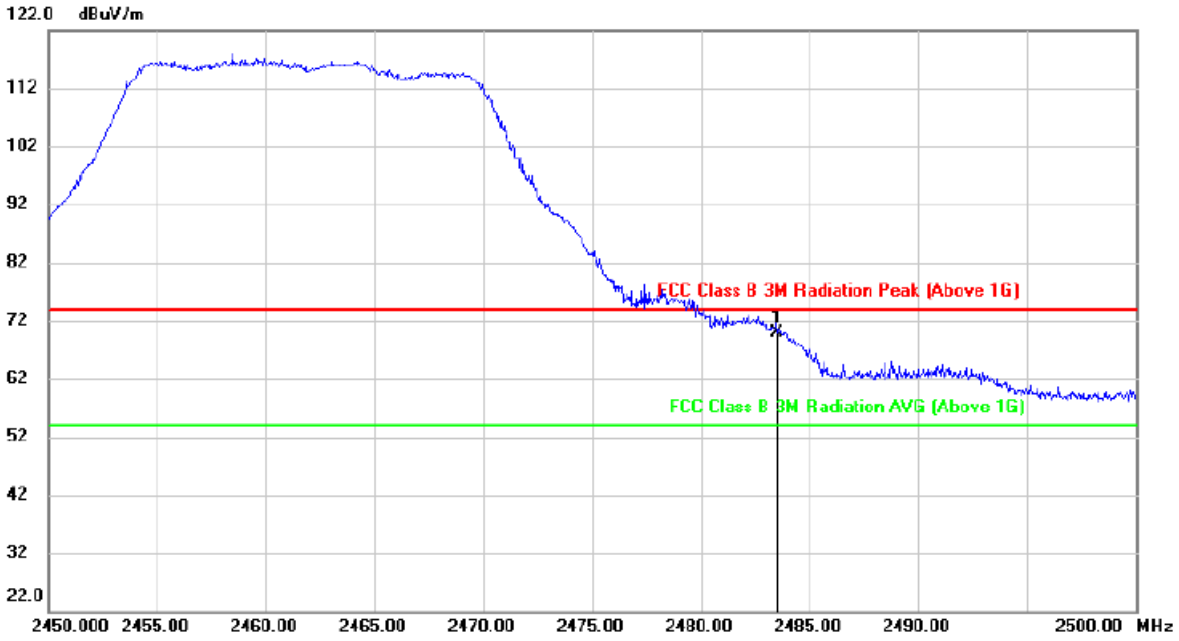


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	19.61	33.24	52.85	54.00	-1.15	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

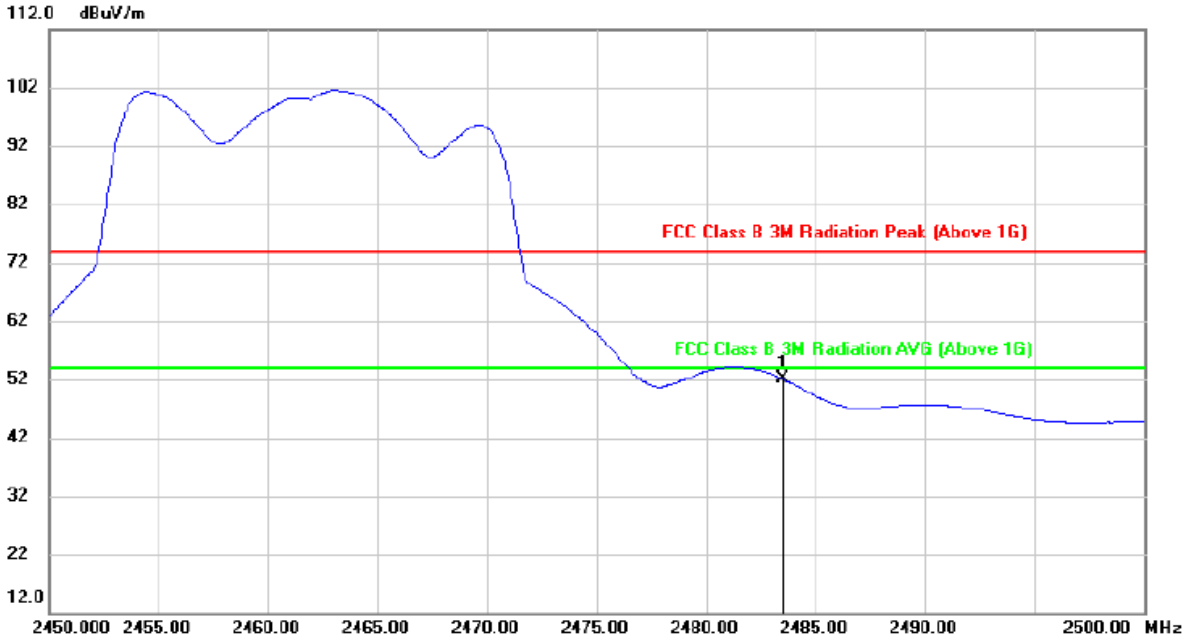
RESTRICTED BANDEDGE (CHANNEL11, HORIZONTAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	37.16	32.78	69.94	74.00	-4.06	peak			

AVG

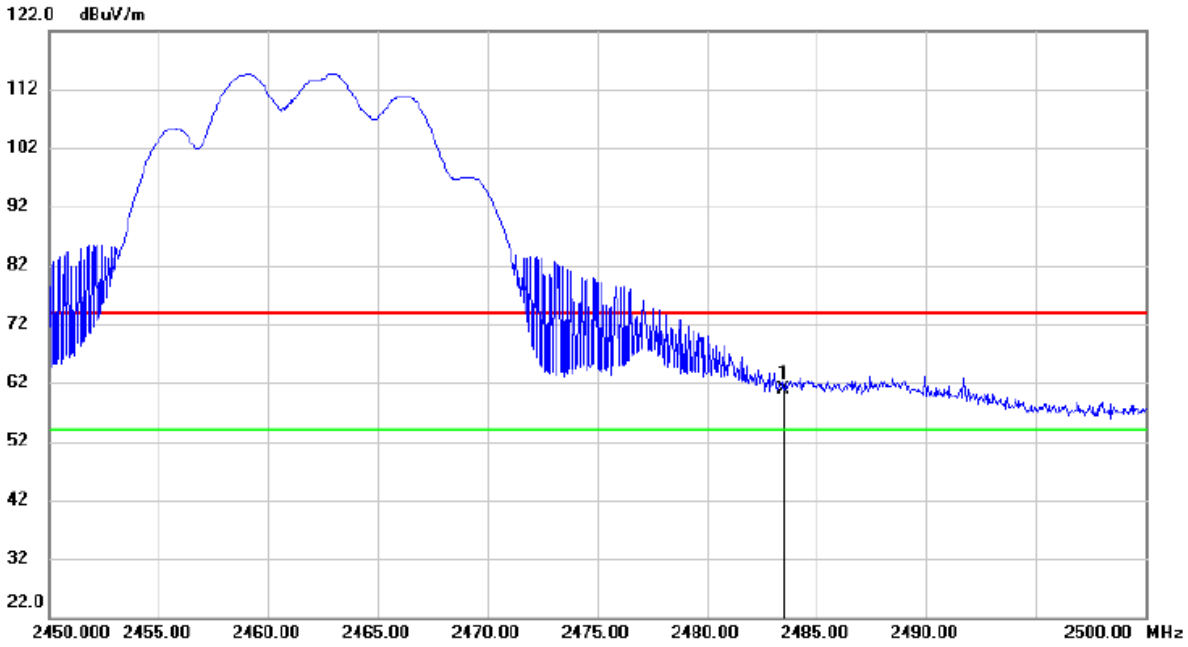


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	19.38	32.78	52.16	54.00	-1.84	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

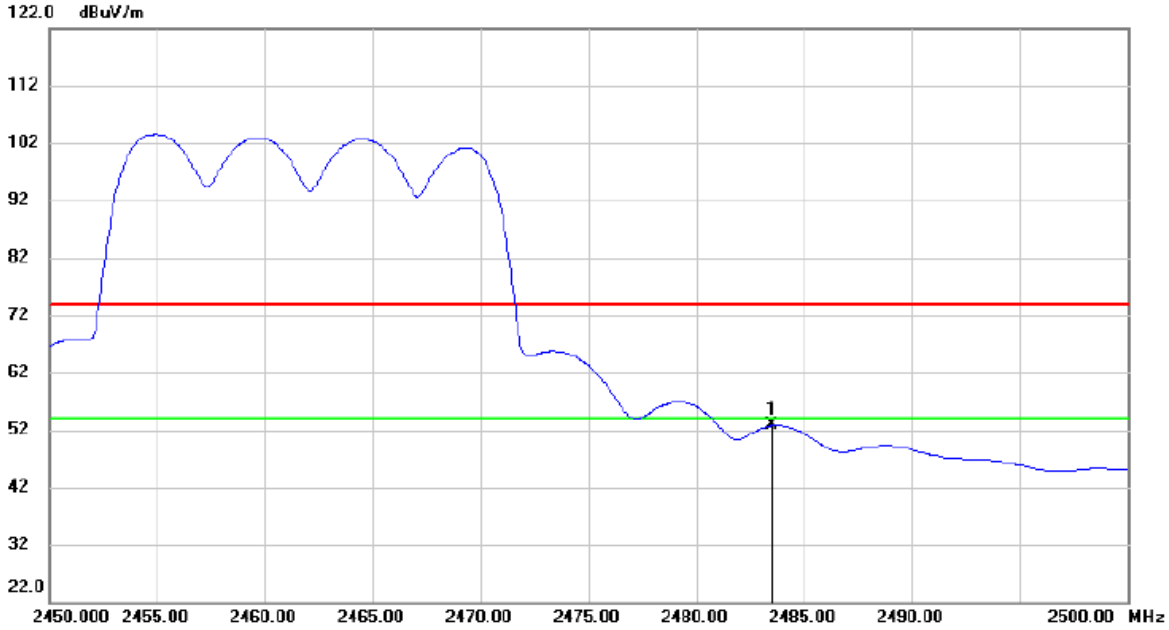
RESTRICTED BANDEDGE (CHANNEL11, VERTICAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	28.09	32.88	60.97	74.00	-13.03	peak			

AVG



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	19.95	32.88	52.83	54.00	-1.17	AVG			

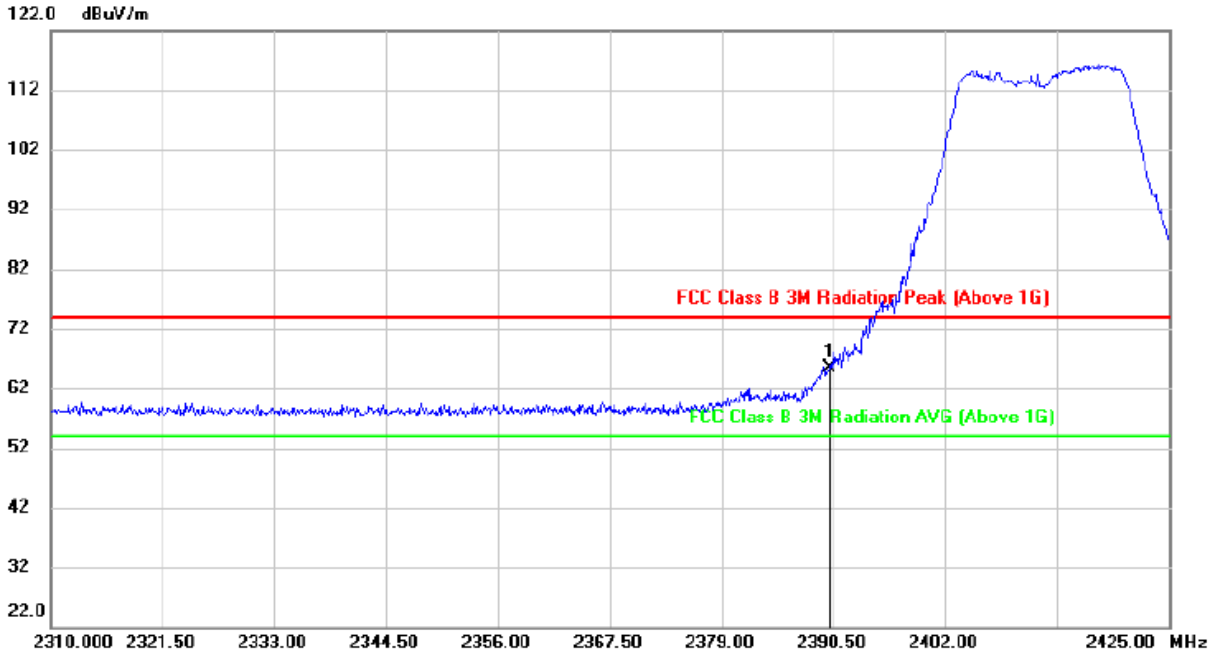
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

8.1.3. 802.1120 MODE

3TX Mode (WORST-CASE CONFIGURATION)

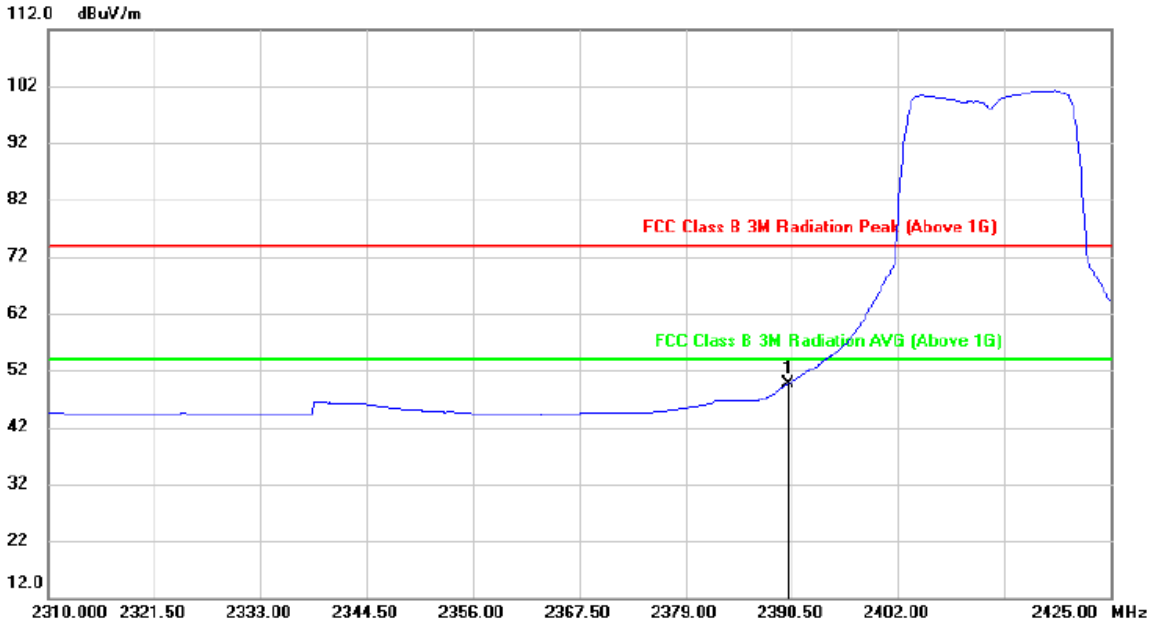
RESTRICTED BANDEDGE (CHANNEL1, HORIZONTAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	32.14	33.14	65.28	74.00	-8.72	peak			

AVG

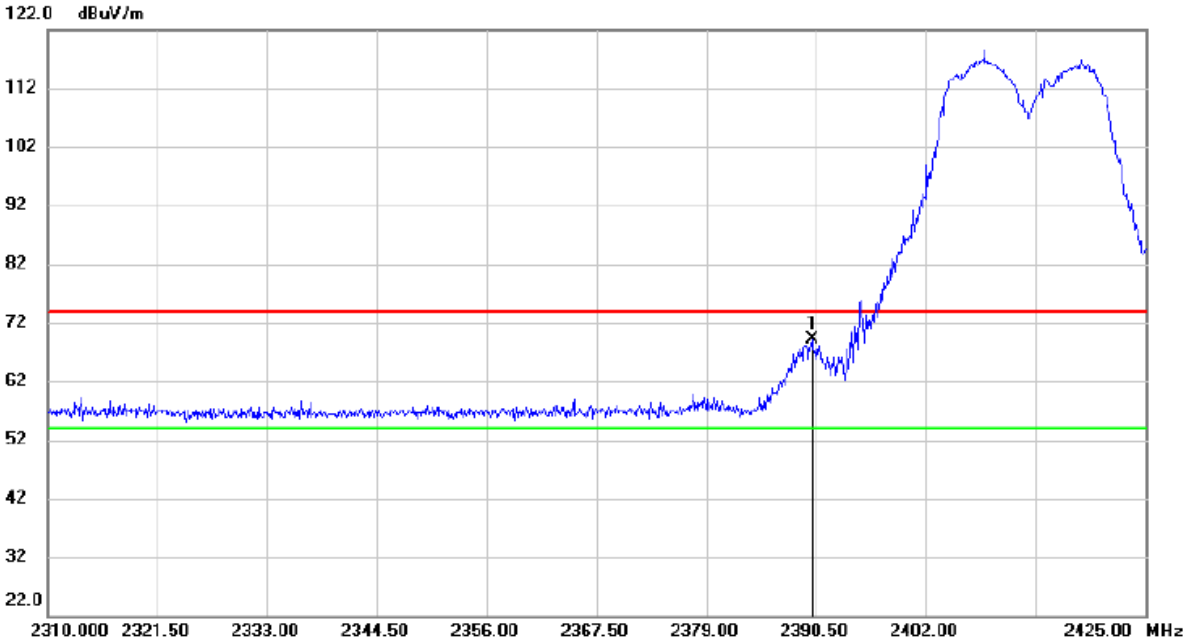


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	16.41	33.14	49.55	54.00	-4.45	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

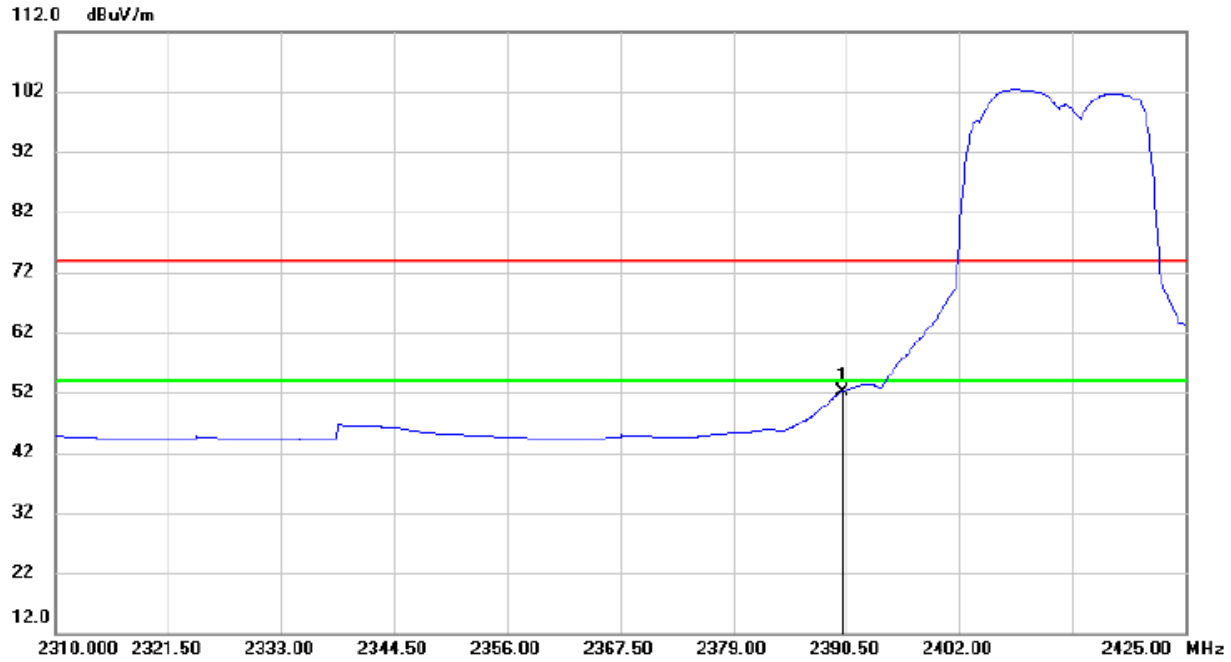
RESTRICTED BANDEDGE (CHANNEL1, VERTICAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	35.83	33.24	69.07	74.00	-4.93	peak			

AVG

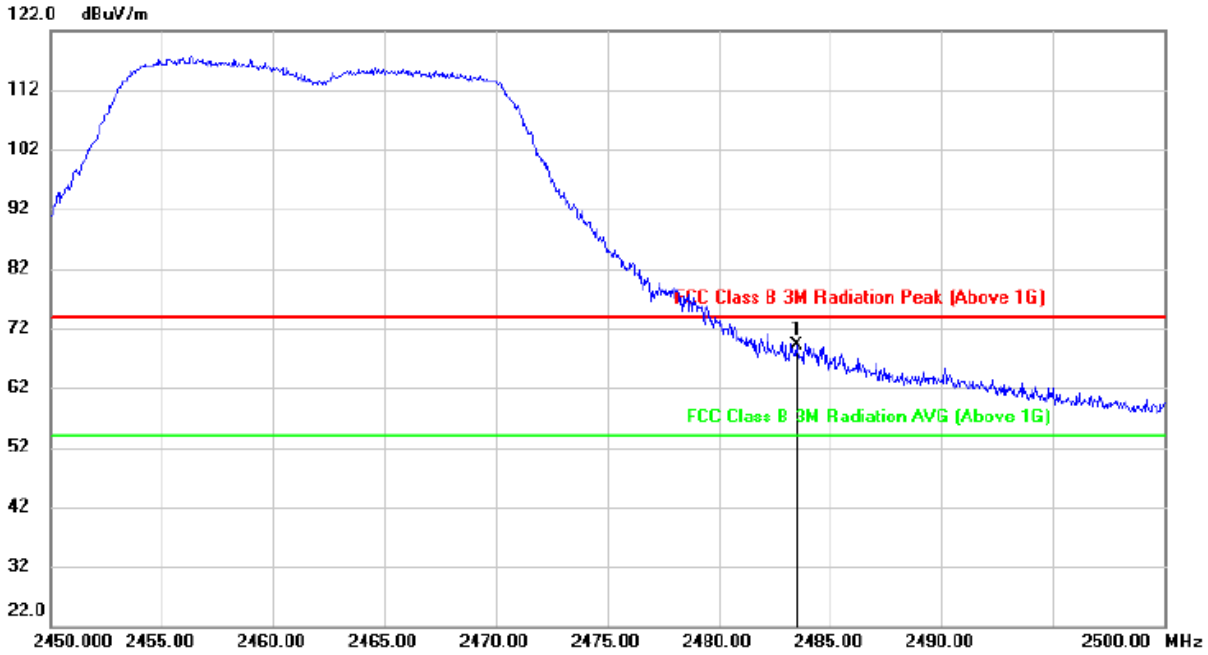


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	18.91	33.24	52.15	54.00	-1.85	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

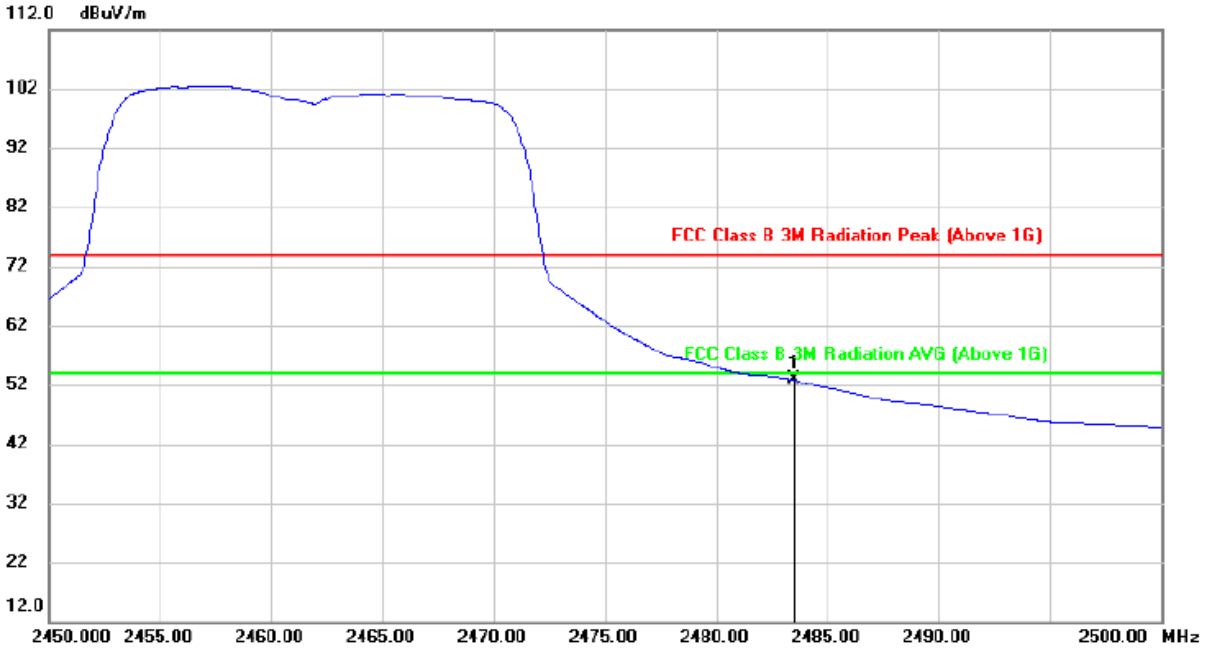
RESTRICTED BANDEDGE (CHANNEL11, HORIZONTAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	36.33	32.78	69.11	74.00	-4.89	peak			

AVG

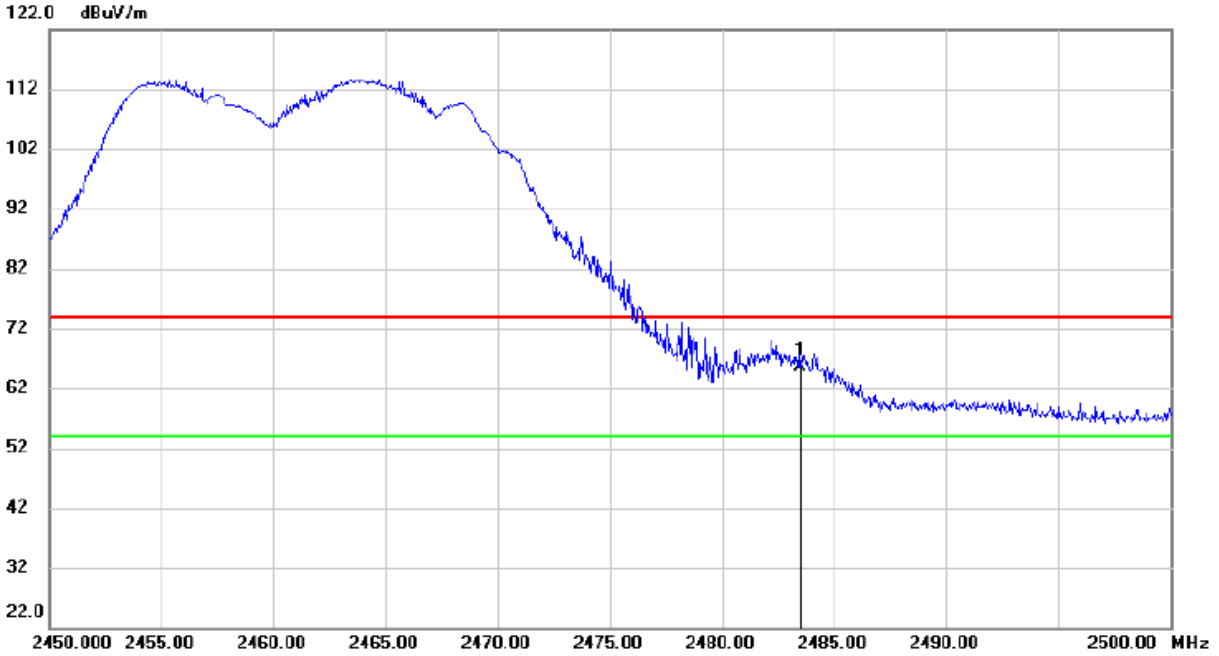


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	19.98	32.78	52.76	54.00	-1.24	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
. 5. For transmit duration, please refer to clause 7.1.

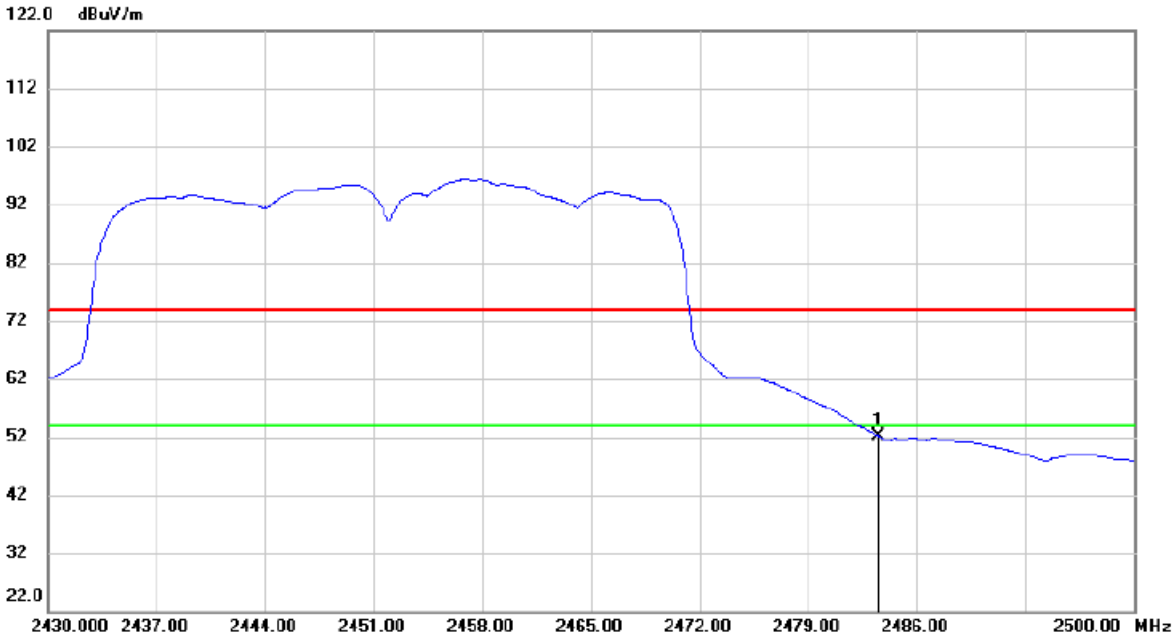
RESTRICTED BANDEDGE (CHANNEL11, VERTICAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	32.70	32.88	65.58	74.00	-8.42	peak			

AVG



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	19.23	32.88	52.11	54.00	-1.89	AVG			

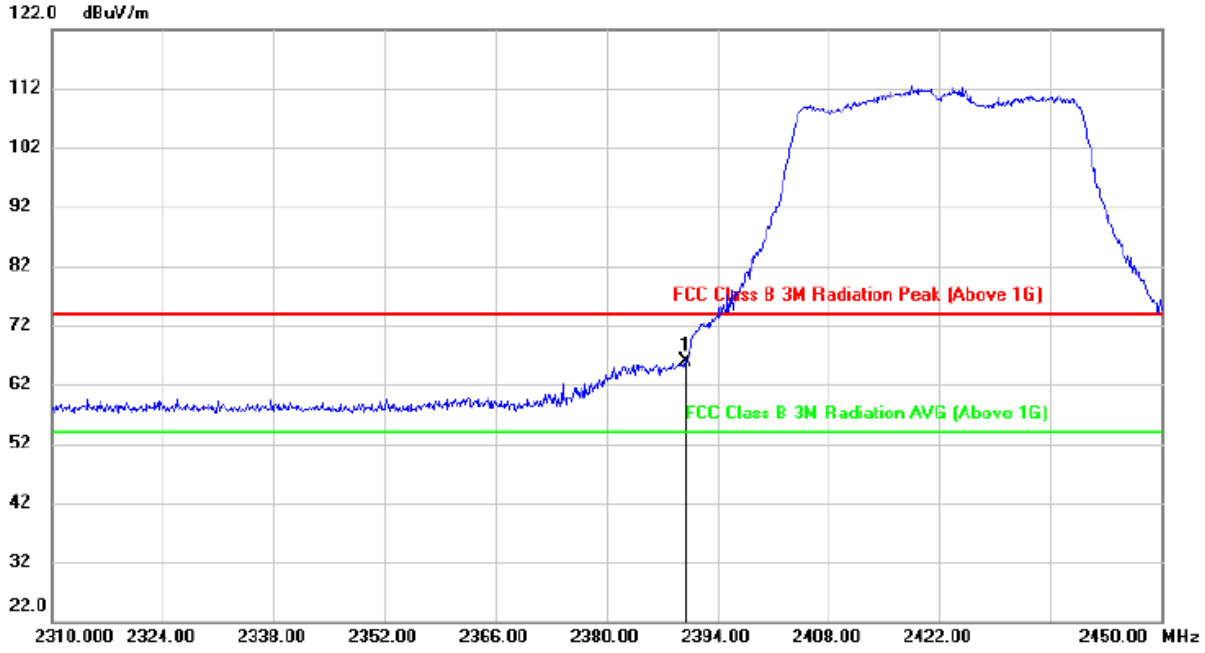
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

8.1.4. 802.11n40 MODE

3TX Mode (WORST-CASE CONFIGURATION)

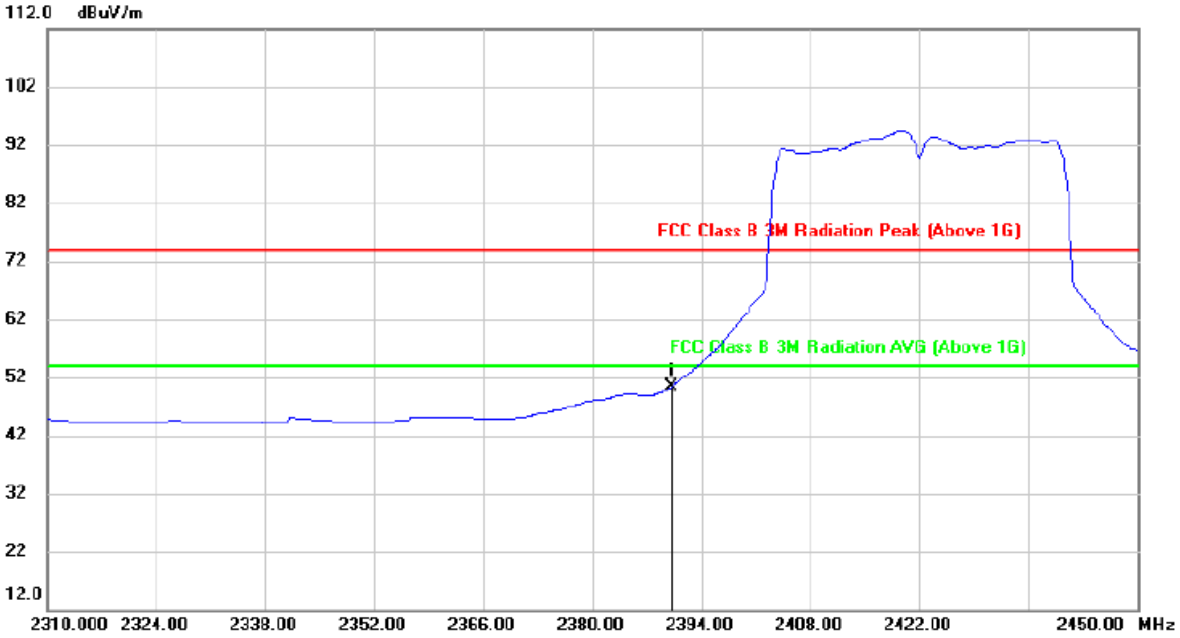
RESTRICTED BANDEDGE (CHANNEL3, HORIZONTAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	32.63	33.14	65.77	74.00	-8.23	peak			

AVG

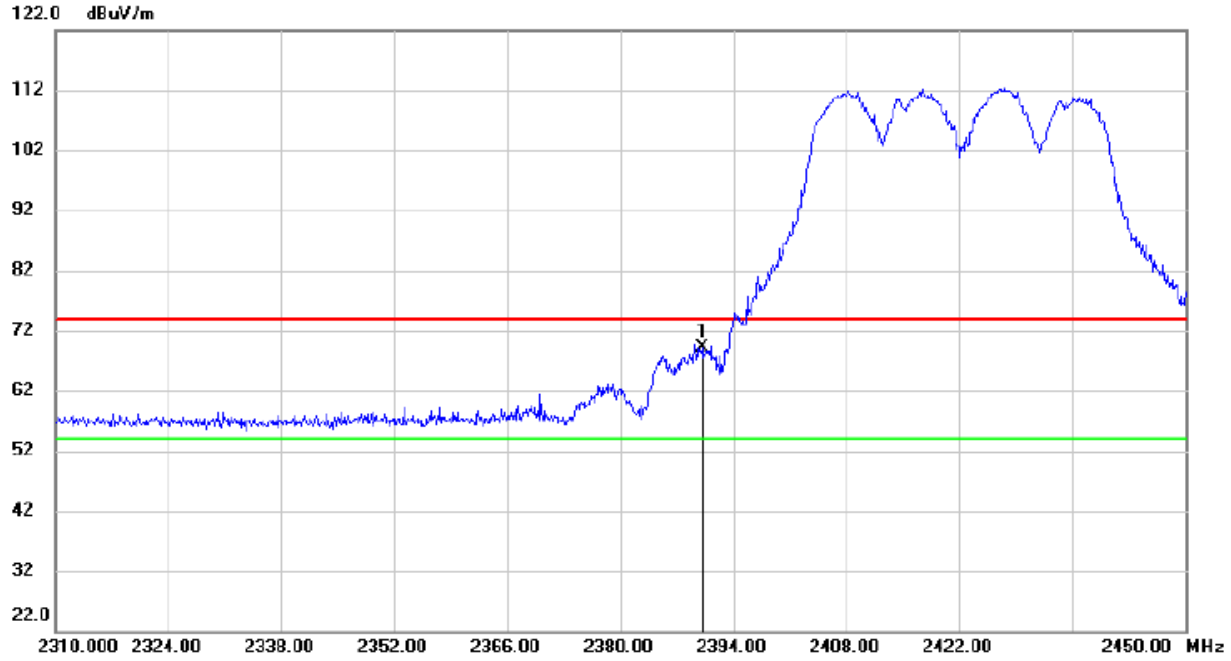


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	17.18	33.14	50.32	54.00	-3.68	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

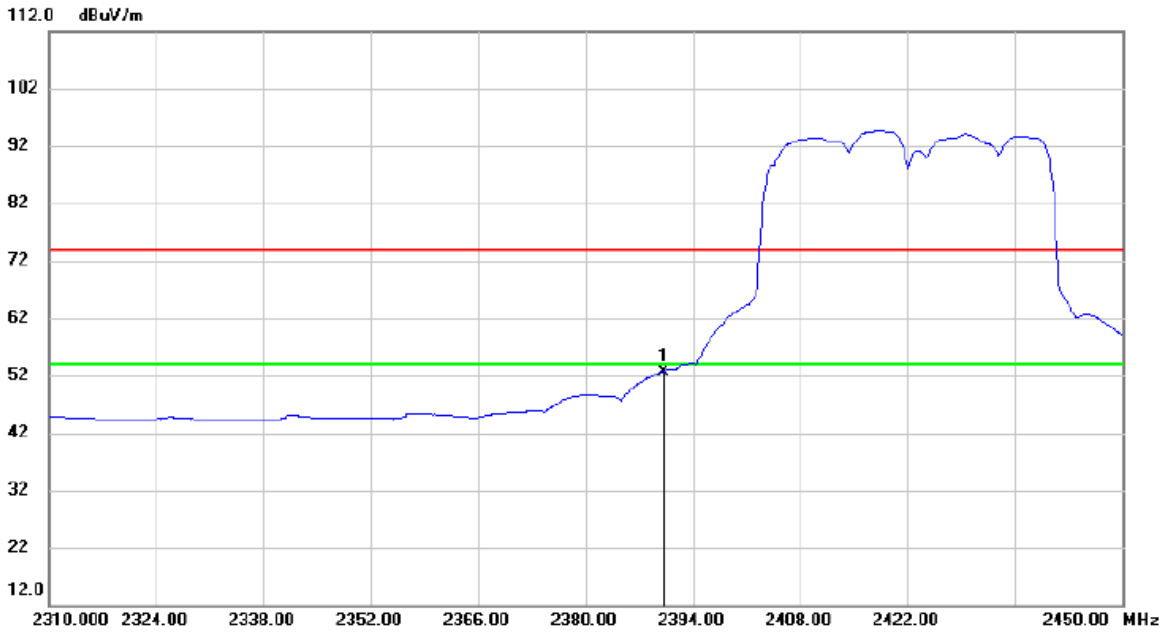
RESTRICTED BANDEDGE (CHANNEL3, VERTICAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	35.85	33.24	69.09	74.00	-4.91	peak			

AVG

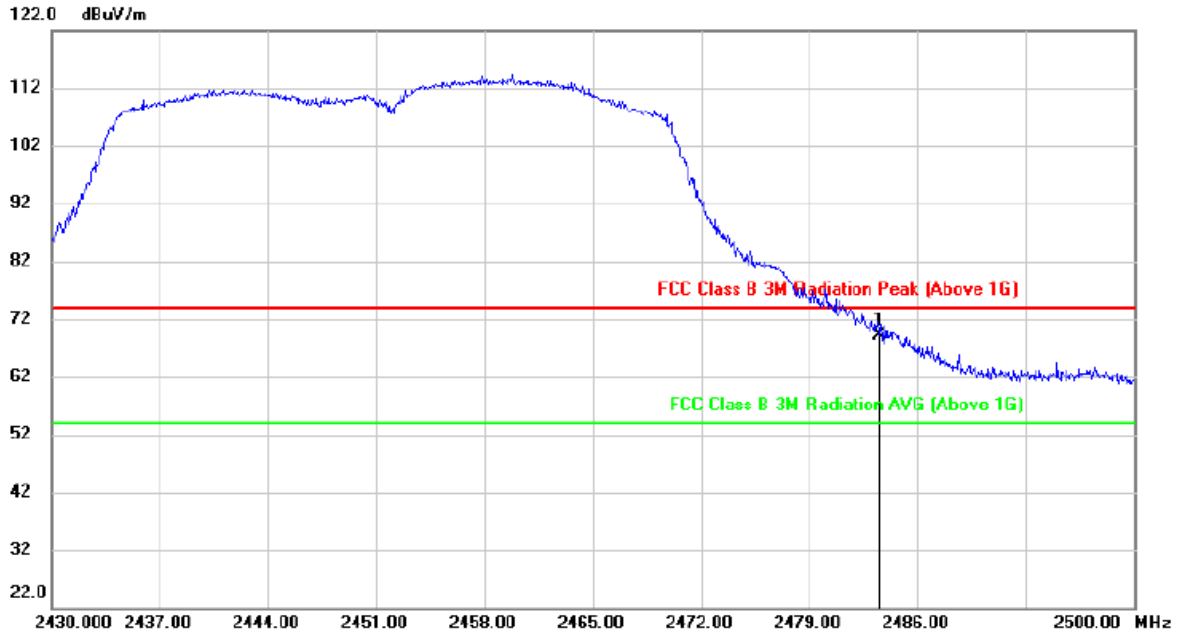


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2390.000	19.49	33.24	52.73	54.00	-1.27	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

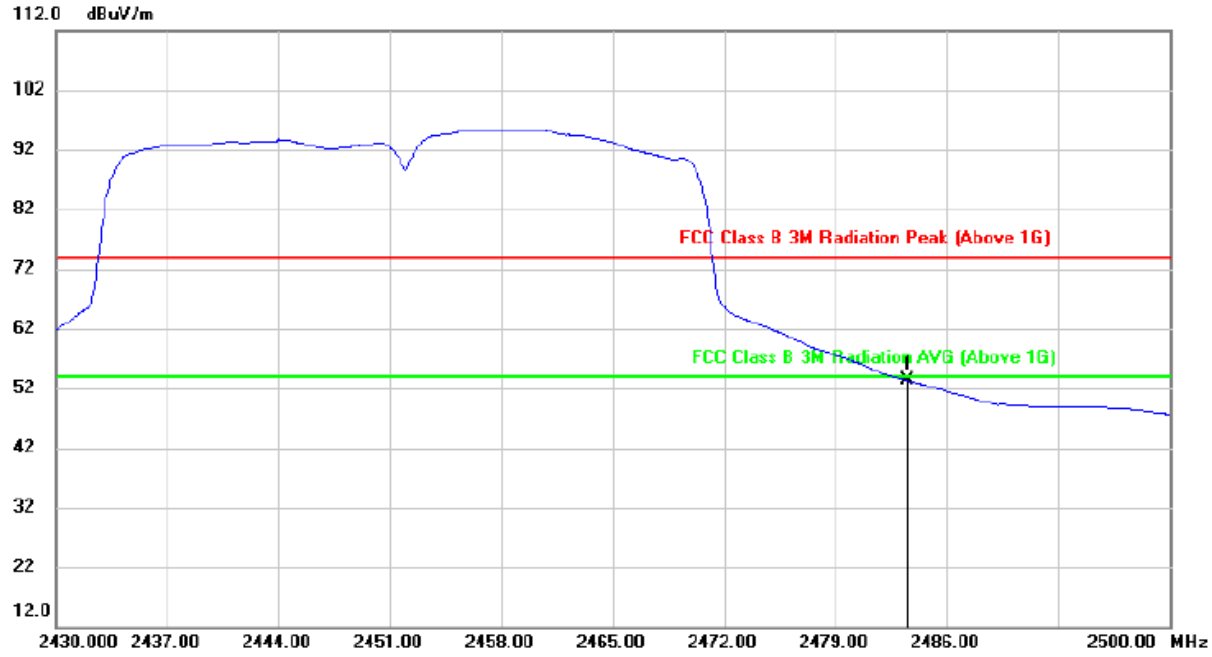
RESTRICTED BANDEDGE (CHANNEL9, HORIZONTAL)

Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	36.27	32.78	69.05	74.00	-4.95	peak			

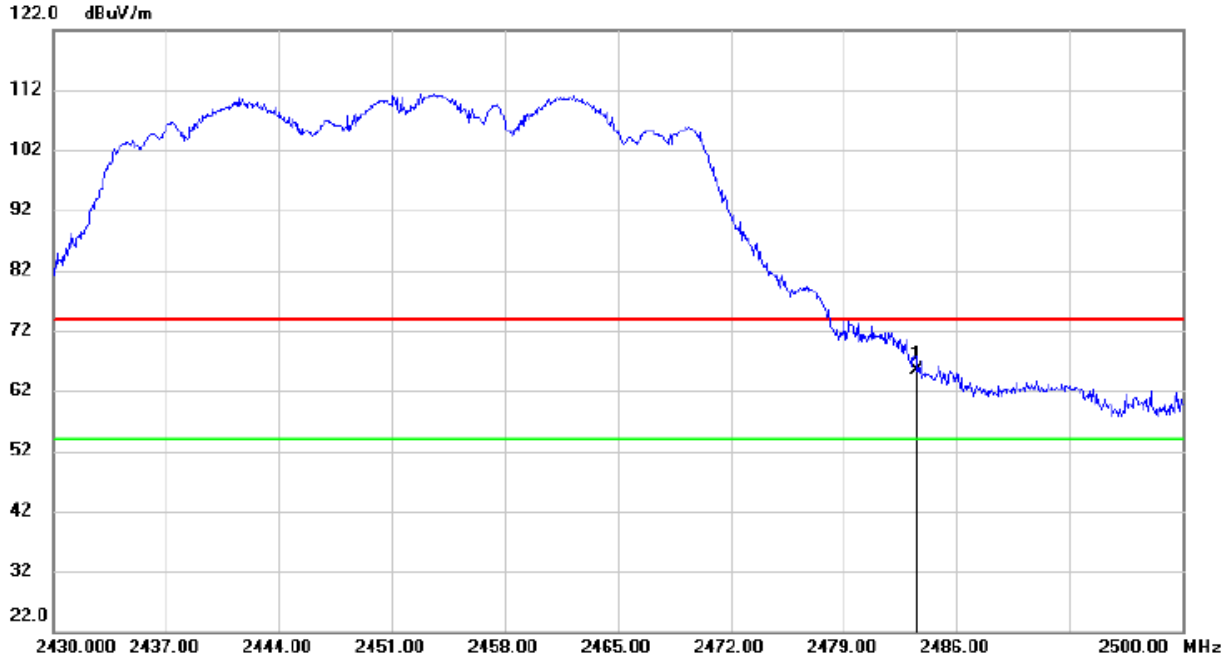
AVG



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	20.53	32.78	53.31	54.00	-0.69	AVG			

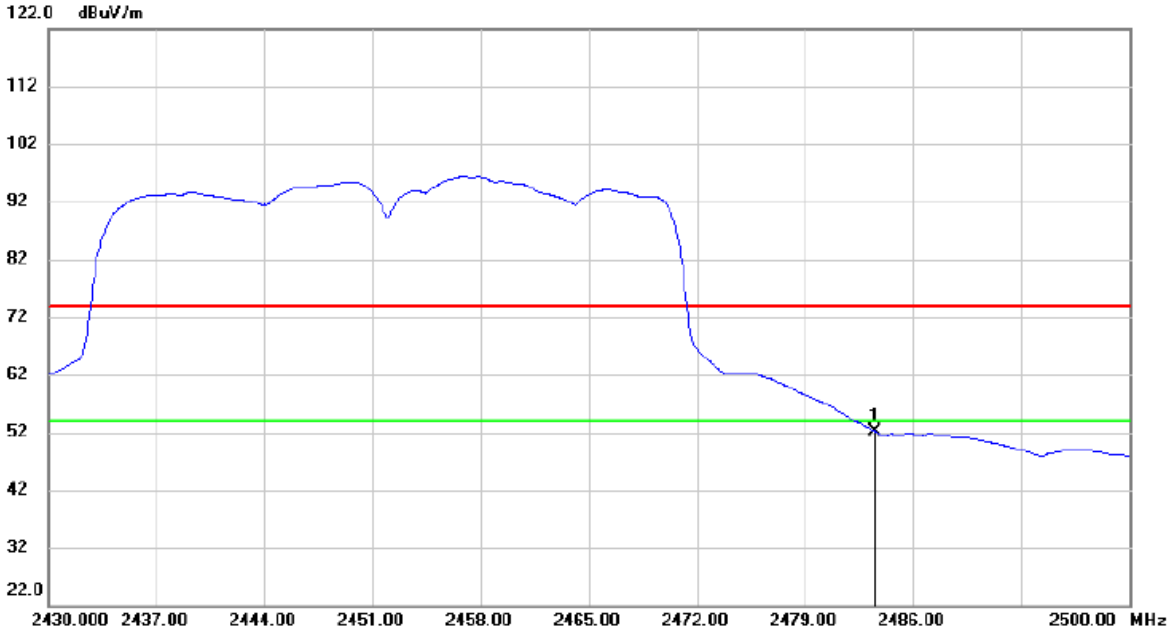
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T, please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

RESTRICTED BANDEDGE (CHANNEL9, VERTICAL)
Peak



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	32.58	32.88	65.46	74.00	-8.54	peak			

AVG



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	19.23	32.88	52.11	54.00	-1.89	AVG			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

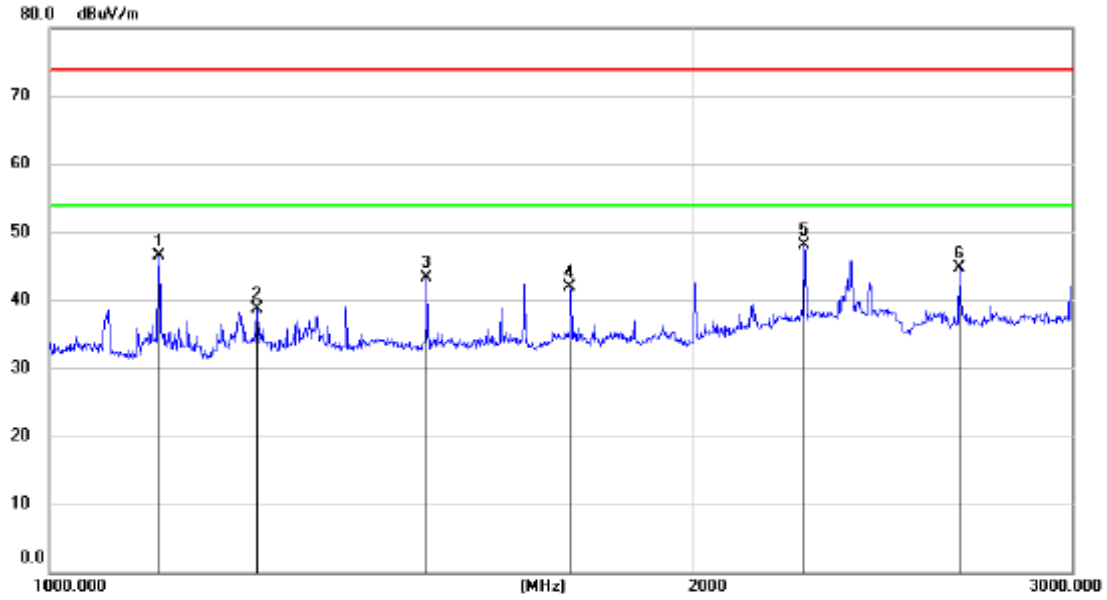
Note: All transmission modes and antennas were tested, but only the worst data was recorded in the report.

8.2. SPURIOUS EMISSIONS (1~18GHz)

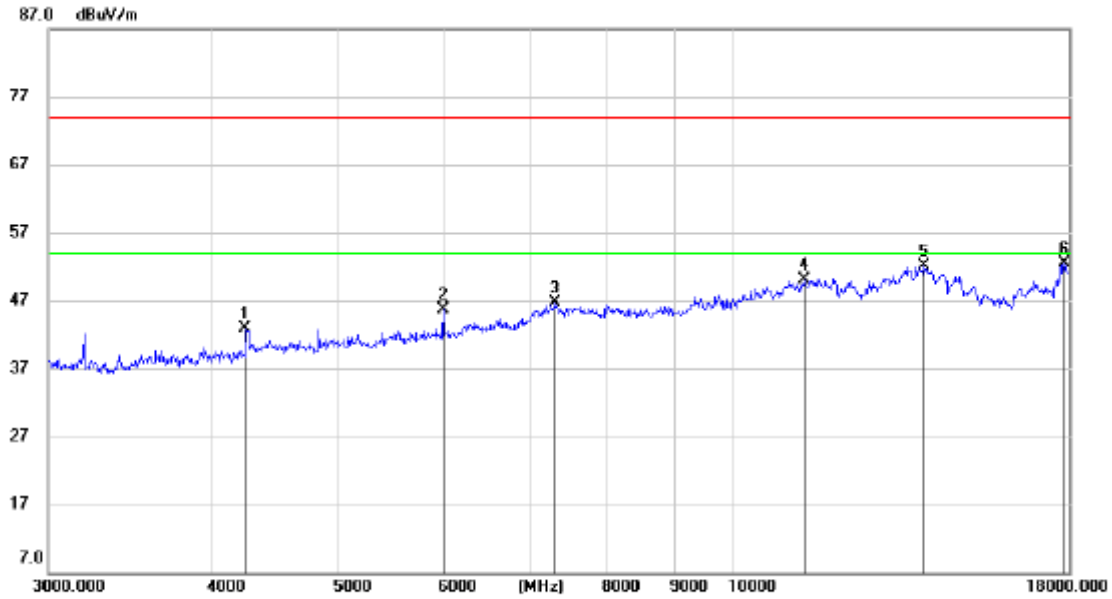
8.2.1. 802.11b MODE

3TX Mode (WORST-CASE CONFIGURATION)

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL1, HORIZONTAL)



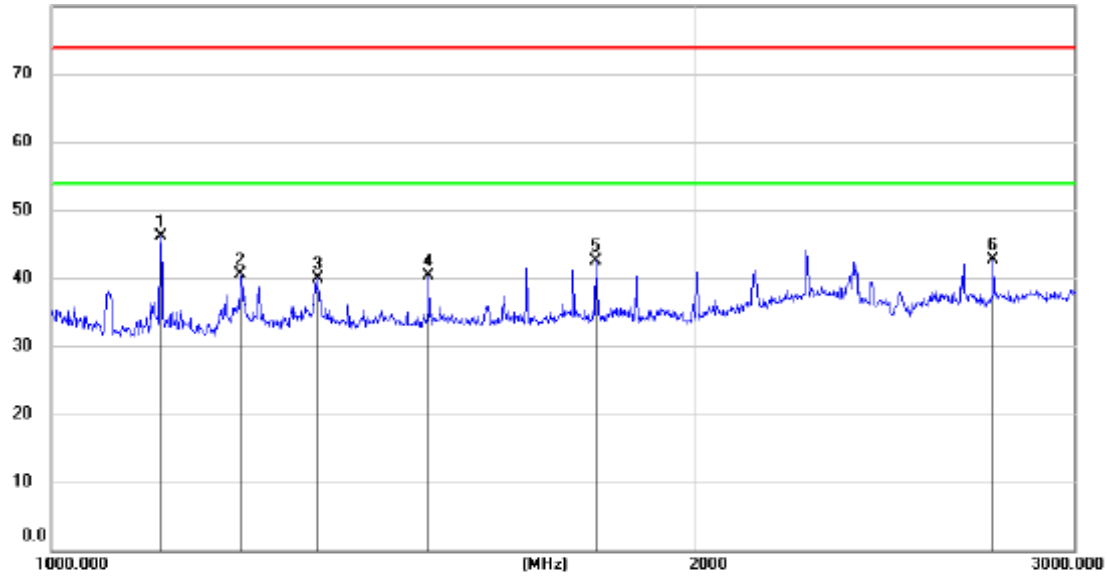
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	59.99	-13.46	46.53	74.00	-27.47	peak			
2		1249.843	51.50	-12.83	38.67	74.00	-35.33	peak			
3		1499.884	55.39	-12.18	43.21	74.00	-30.79	peak			
4		1749.261	53.23	-11.27	41.96	74.00	-32.04	peak			
5	*	2249.653	55.65	-7.60	48.05	74.00	-25.95	peak			
6		2658.508	52.56	-7.81	44.75	74.00	-29.25	peak			



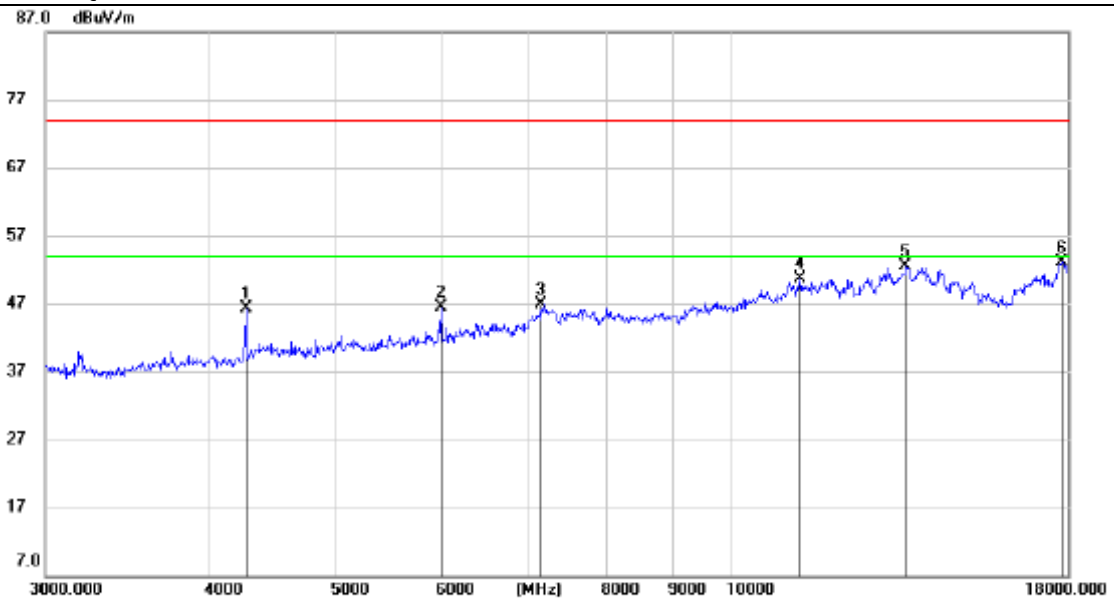
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4247.003	44.97	-2.00	42.97	74.00	-31.03	peak			
2		6001.583	42.58	3.22	45.80	74.00	-28.20	peak			
3		7309.075	39.01	7.75	46.76	74.00	-27.24	peak			
4		11317.00	34.76	15.35	50.11	74.00	-23.89	peak			
5		13956.45	31.47	20.68	52.15	74.00	-21.85	peak			
6	*	17839.46	26.09	26.49	52.58	74.00	-21.42	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL1, VERTICAL)



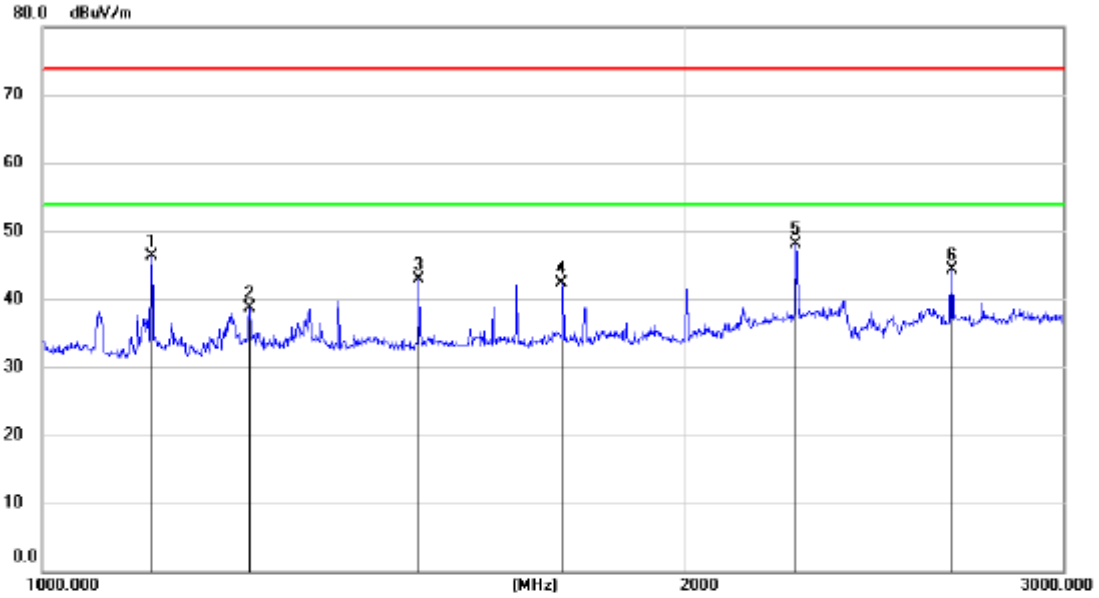
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1124.740	59.77	-13.71	46.06	74.00	-27.94	peak			
2		1226.717	53.36	-12.94	40.42	74.00	-33.58	peak			
3		1332.075	52.32	-12.48	39.84	74.00	-34.16	peak			
4		1499.884	52.56	-12.28	40.28	74.00	-33.72	peak			
5		1795.997	53.74	-11.14	42.60	74.00	-31.40	peak			
6		2750.608	50.01	-7.32	42.69	74.00	-31.31	peak			



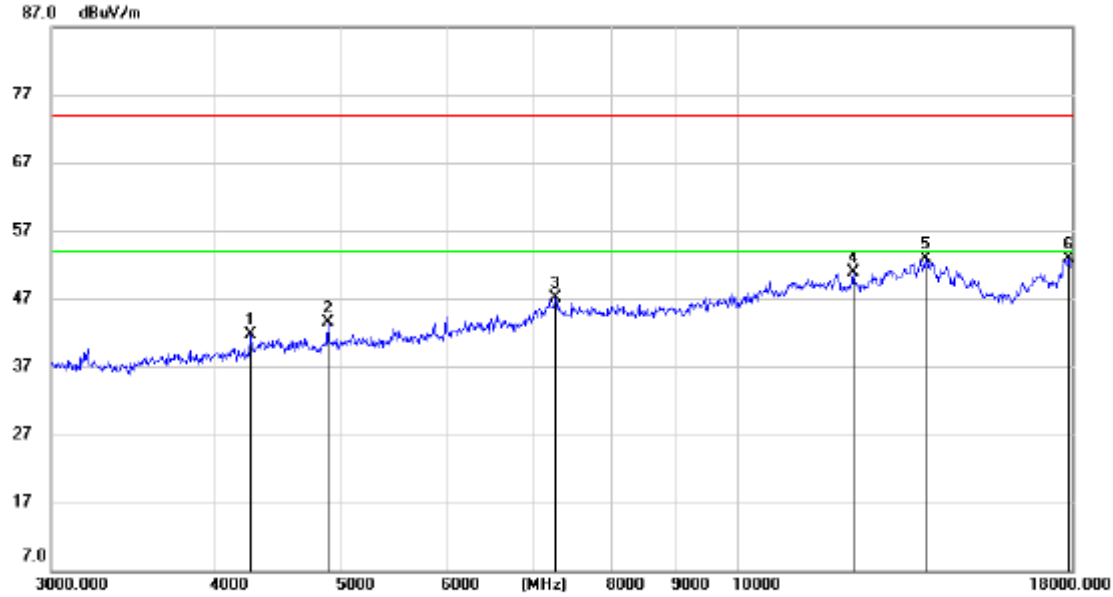
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4262.250	47.99	-1.78	46.21	74.00	-27.79	peak			
2		6001.583	43.26	3.32	46.58	74.00	-27.42	peak			
3		7179.280	39.07	7.82	46.89	74.00	-27.11	peak			
4		11276.51	35.47	15.20	50.67	74.00	-23.33	peak			
5		13562.02	31.77	20.79	52.56	74.00	-21.44	peak			
6	*	17807.52	26.34	26.76	53.10	74.00	-20.90	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL6, HORIZONTAL)



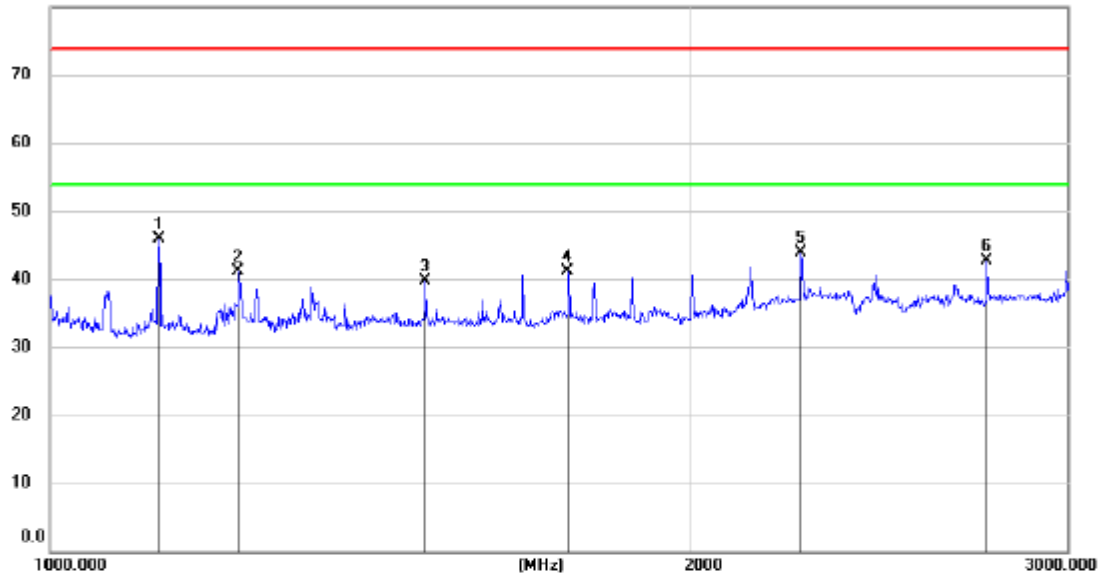
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	59.83	-13.46	46.37	74.00	-27.63	peak			
2		1249.843	51.51	-12.83	38.68	74.00	-35.32	peak			
3		1499.884	55.16	-12.18	42.98	74.00	-31.02	peak			
4		1749.261	53.53	-11.27	42.26	74.00	-31.74	peak			
5	*	2249.653	55.78	-7.60	48.18	74.00	-25.82	peak			
6		2661.430	52.04	-7.79	44.25	74.00	-29.75	peak			



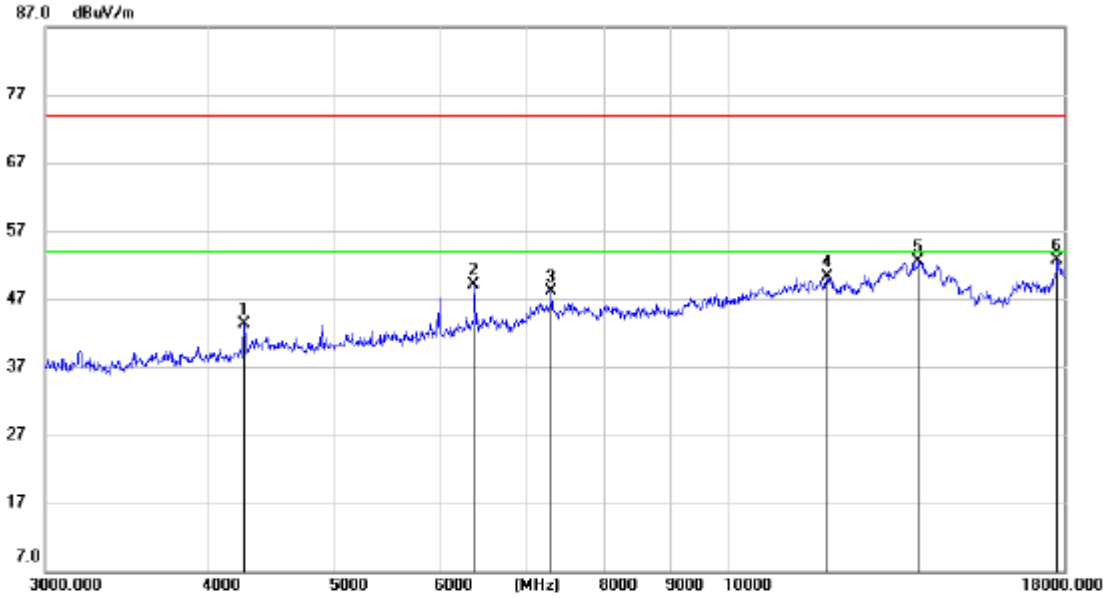
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4254.620	43.62	-1.95	41.67	74.00	-32.33	peak			
2		4875.288	43.11	0.39	43.50	74.00	-30.50	peak			
3		7269.892	39.20	7.86	47.06	74.00	-26.94	peak			
4		12267.27	34.64	16.20	50.84	74.00	-23.16	peak			
5		13931.46	32.17	20.67	52.84	74.00	-21.16	peak			
6	*	17871.45	26.52	26.36	52.88	74.00	-21.12	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL6, VERTICAL)



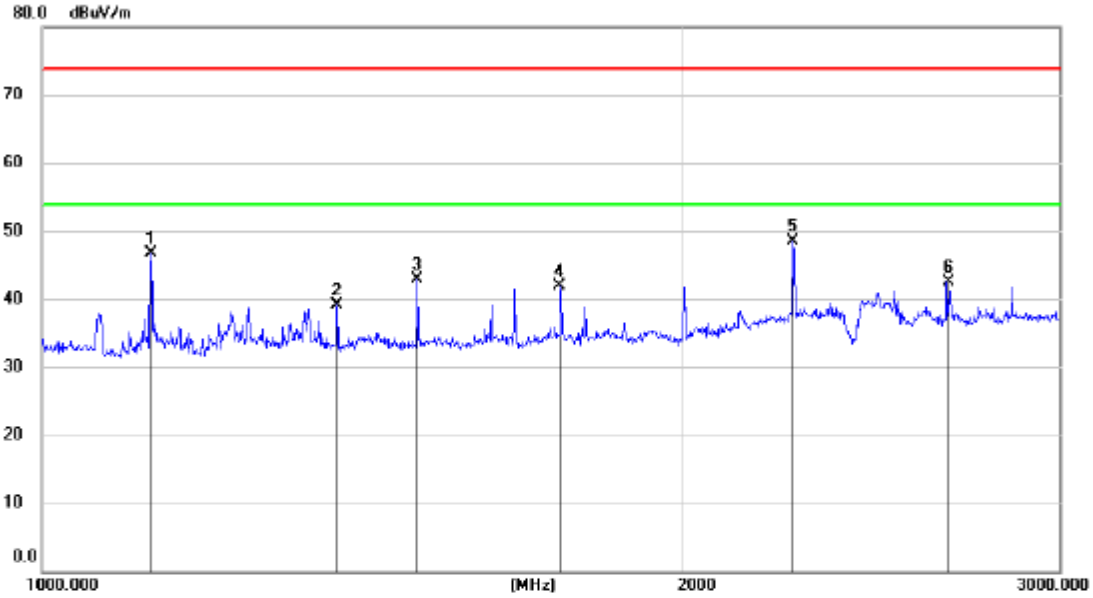
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1124.740	59.57	-13.71	45.86	74.00	-28.14	peak			
2		1226.717	54.00	-12.94	41.06	74.00	-32.94	peak			
3		1499.884	52.03	-12.28	39.75	74.00	-34.25	peak			
4		1749.261	52.30	-11.27	41.03	74.00	-32.97	peak			
5		2249.653	51.46	-7.60	43.86	74.00	-30.14	peak			
6		2750.608	50.10	-7.32	42.78	74.00	-31.22	peak			



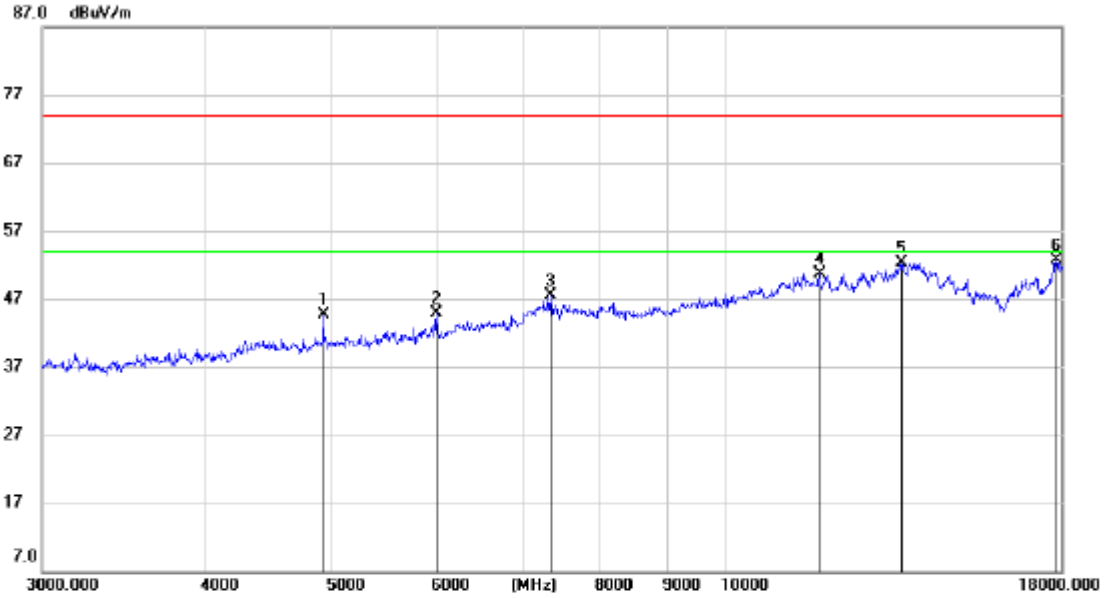
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4254.620	45.10	-1.85	43.25	74.00	-30.75	peak			
2		6378.564	44.39	4.71	49.10	74.00	-24.90	peak			
3		7309.075	40.36	7.77	48.13	74.00	-25.87	peak			
4		11856.68	33.60	16.64	50.24	74.00	-23.76	peak			
5		13931.46	31.68	20.81	52.49	74.00	-21.51	peak			
6	*	17775.64	26.07	26.59	52.66	74.00	-21.34	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL11, HORIZONTAL)



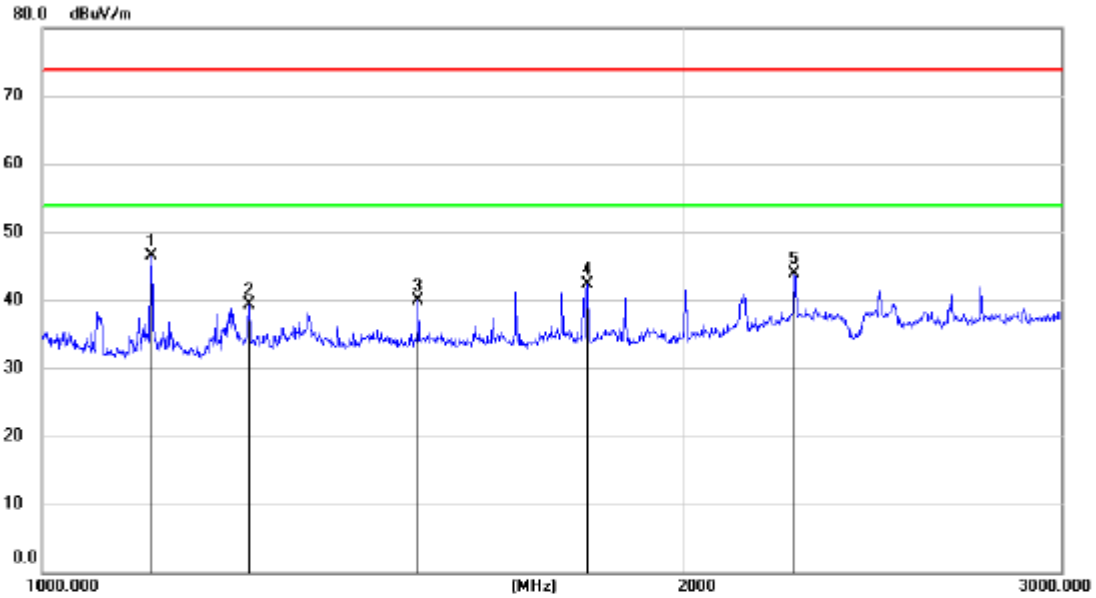
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	60.11	-13.46	46.65	74.00	-27.35	peak			
2		1375.198	51.42	-12.22	39.20	74.00	-34.80	peak			
3		1499.884	55.09	-12.18	42.91	74.00	-31.09	peak			
4		1749.261	53.13	-11.27	41.86	74.00	-32.14	peak			
5	*	2249.653	56.08	-7.60	48.48	74.00	-25.52	peak			
6		2658.508	50.40	-7.81	42.59	74.00	-31.41	peak			



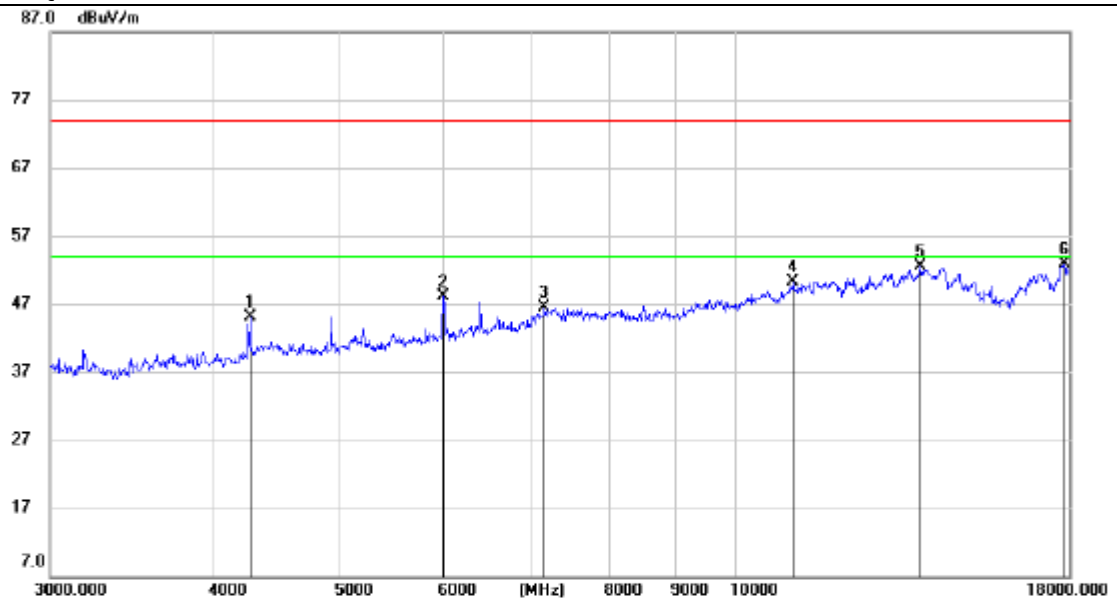
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4919.161	44.08	0.66	44.74	74.00	-29.26	peak			
2		6001.583	41.77	3.22	44.99	74.00	-29.01	peak			
3		7335.314	40.01	7.45	47.46	74.00	-26.54	peak			
4		11772.01	34.66	16.10	50.76	74.00	-23.24	peak			
5		13610.71	31.72	20.53	52.25	74.00	-21.75	peak			
6	*	17839.46	26.21	26.49	52.70	74.00	-21.30	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL11, VERTICAL)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1124.740	60.18	-13.71	46.47	74.00	-27.53	peak			
2		1249.843	51.97	-12.73	39.24	74.00	-34.76	peak			
3		1499.884	52.21	-12.28	39.93	74.00	-34.07	peak			
4		1799.948	53.43	-11.13	42.30	74.00	-31.70	peak			
5		2249.653	51.56	-7.60	43.96	74.00	-30.04	peak			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4262.250	46.79	-1.78	45.01	74.00	-28.99	peak			
2		5990.839	44.75	3.30	48.05	74.00	-25.95	peak			
3		7153.599	38.68	7.80	46.48	74.00	-27.52	peak			
4		11096.13	35.34	14.98	50.32	74.00	-23.68	peak			
5		13856.78	31.68	20.92	52.60	74.00	-21.40	peak			
6	*	17839.46	26.73	26.26	52.99	74.00	-21.01	peak			

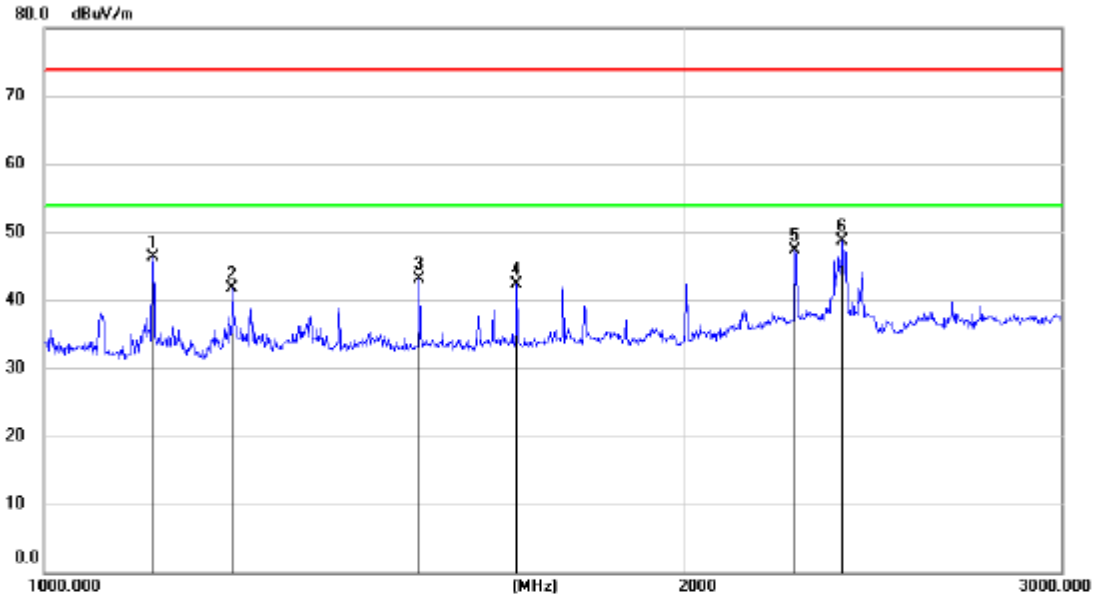
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

Note: All transmission modes and antennas were tested, but only the worst data was recorded in the report.

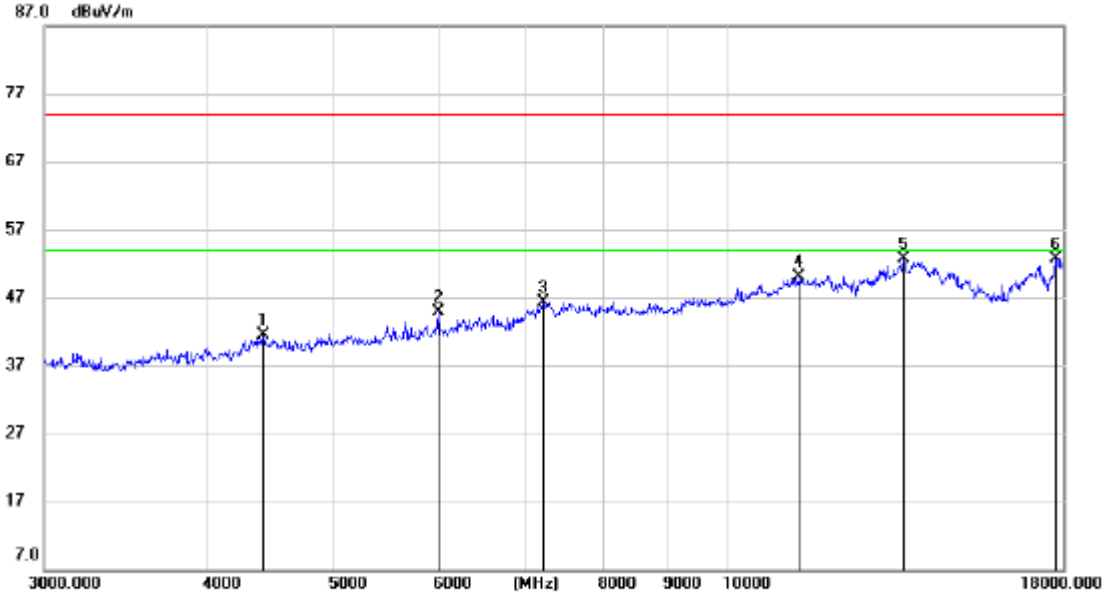
8.2.2. 802.11g MODE

3TX Mode (WORST-CASE CONFIGURATION)

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL1, HORIZONTAL)



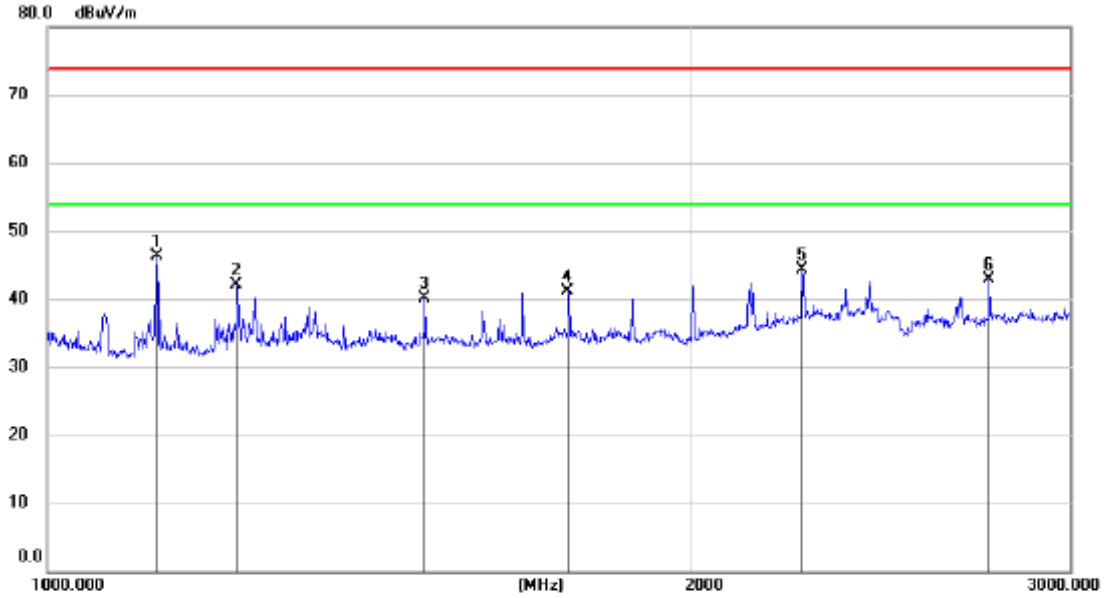
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	59.83	-13.46	46.37	74.00	-27.63	peak			
2		1225.371	54.67	-12.95	41.72	74.00	-32.28	peak			
3		1499.884	55.34	-12.18	43.16	74.00	-30.84	peak			
4		1666.715	53.91	-11.67	42.24	74.00	-31.76	peak			
5		2249.653	55.00	-7.60	47.40	74.00	-26.60	peak			
6	*	2368.864	56.56	-7.89	48.67	74.00	-25.33	peak			



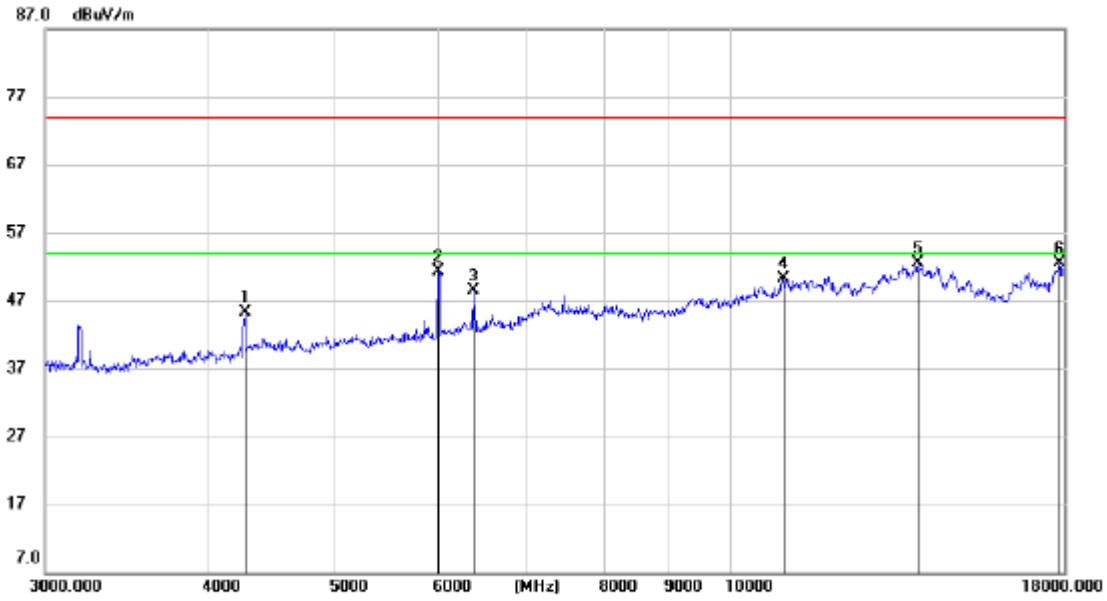
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4409.850	42.39	-0.90	41.49	74.00	-32.51	peak			
2		6001.583	41.76	3.22	44.98	74.00	-29.02	peak			
3		7230.919	38.57	7.81	46.38	74.00	-27.62	peak			
4		11317.00	34.84	15.35	50.19	74.00	-23.81	peak			
5		13610.71	32.11	20.53	52.64	74.00	-21.36	peak			
6	*	17743.82	26.84	25.85	52.69	74.00	-21.31	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL1, VERTICAL)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1124.740	60.06	-13.71	46.35	74.00	-27.65	peak			
2		1226.717	54.95	-12.94	42.01	74.00	-31.99	peak			
3		1499.884	52.34	-12.28	40.06	74.00	-33.94	peak			
4		1749.261	52.32	-11.27	41.05	74.00	-32.95	peak			
5		2249.653	51.83	-7.60	44.23	74.00	-29.77	peak			
6		2750.608	50.13	-7.32	42.81	74.00	-31.19	peak			

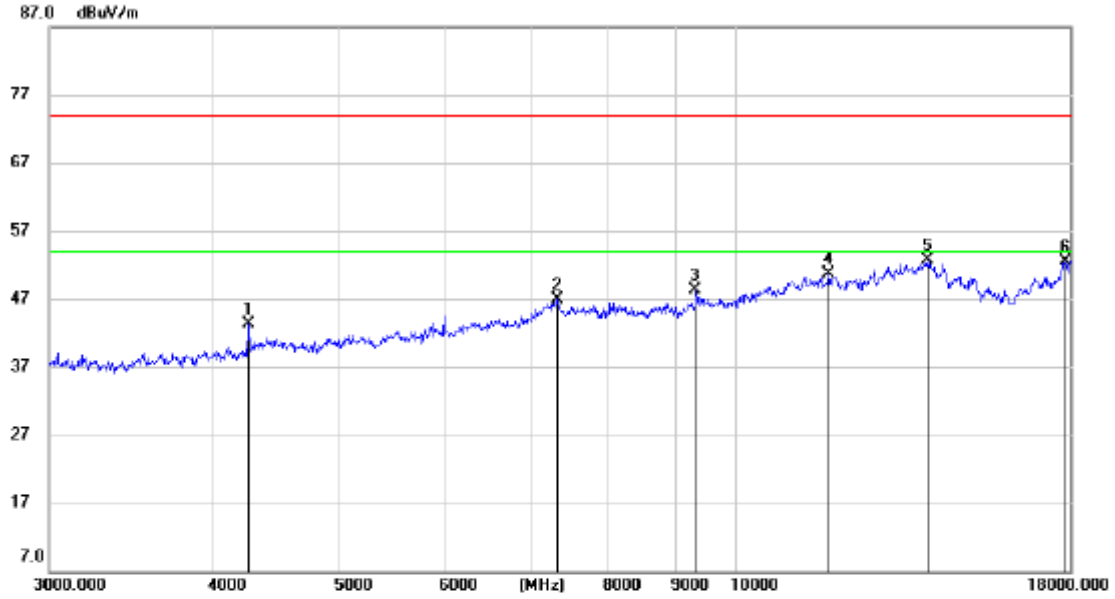


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4262.250	47.18	-1.78	45.40	74.00	-28.60	peak			
2		5990.839	48.00	3.30	51.30	74.00	-22.70	peak			
3		6367.146	43.73	4.68	48.41	74.00	-25.59	peak			
4		10977.48	35.85	14.40	50.25	74.00	-23.75	peak			
5		13906.52	31.70	20.84	52.54	74.00	-21.46	peak			
6	*	17839.46	26.32	26.26	52.58	74.00	-21.42	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL6, HORIZONTAL)

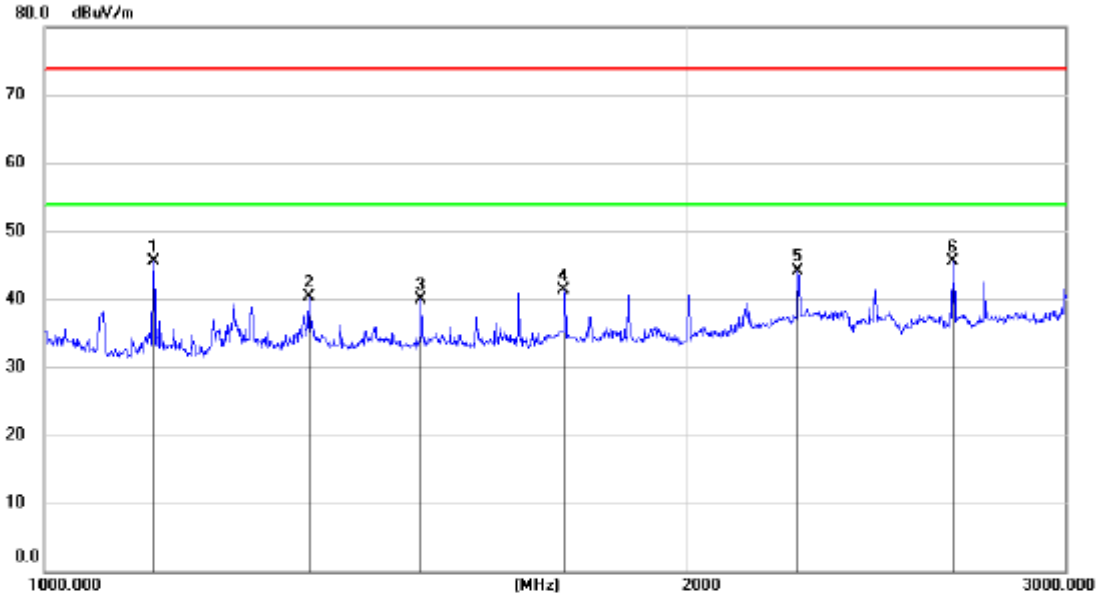
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	60.16	-13.46	46.70	74.00	-27.30	peak			
2		1226.717	52.89	-12.94	39.95	74.00	-34.05	peak			
3		1499.884	55.00	-12.18	42.82	74.00	-31.18	peak			
4		1792.055	54.65	-11.16	43.49	74.00	-30.51	peak			
5	*	2249.653	55.13	-7.60	47.53	74.00	-26.47	peak			
6		2661.430	49.30	-7.79	41.51	74.00	-32.49	peak			



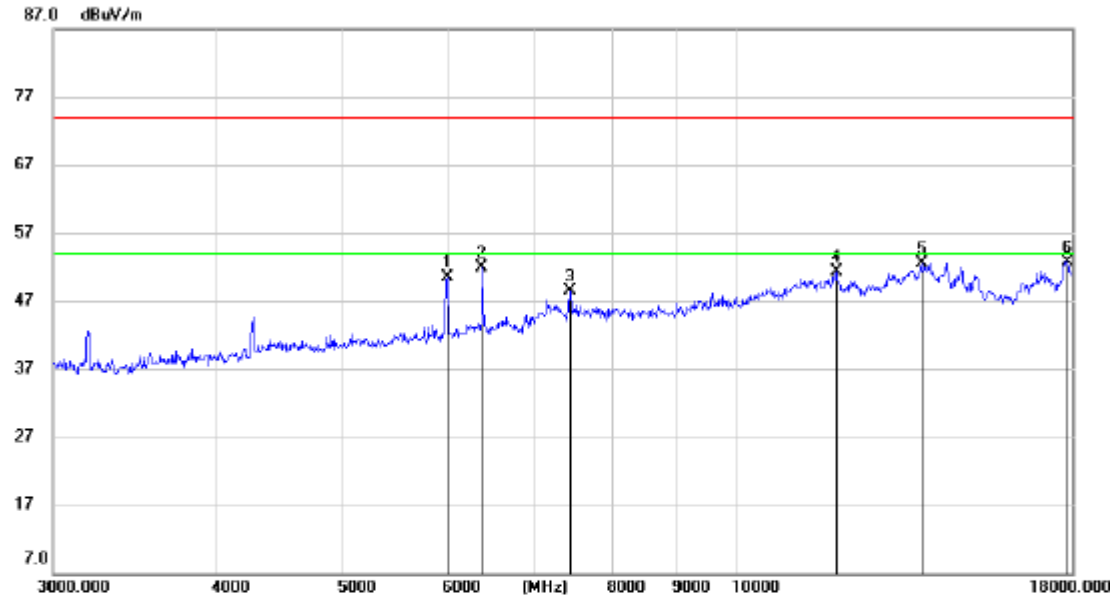
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4254.620	45.33	-1.95	43.38	74.00	-30.62	peak			
2		7322.183	39.40	7.60	47.00	74.00	-27.00	peak			
3		9342.630	37.42	10.82	48.24	74.00	-25.76	peak			
4		11772.01	34.66	16.10	50.76	74.00	-23.24	peak			
5	*	14006.55	32.05	20.61	52.66	74.00	-21.34	peak			
6		17839.46	26.01	26.49	52.50	74.00	-21.50	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL6, VERTICAL)



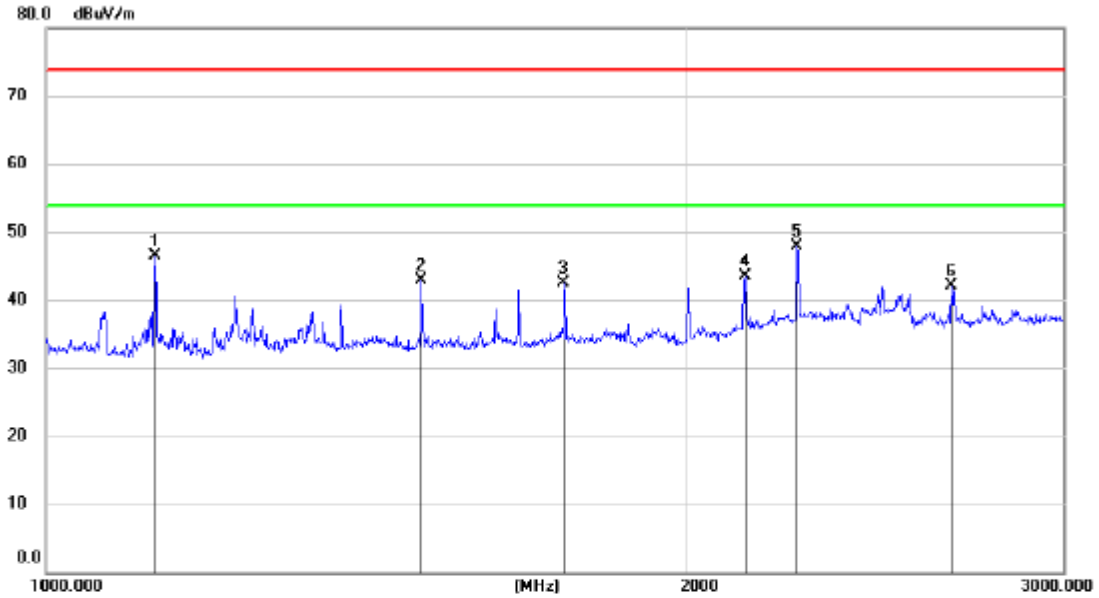
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1124.740	59.28	-13.71	45.57	74.00	-28.43	peak			
2		1330.612	52.83	-12.50	40.33	74.00	-33.67	peak			
3		1499.884	52.18	-12.28	39.90	74.00	-34.10	peak			
4		1749.261	52.54	-11.27	41.27	74.00	-32.73	peak			
5		2249.653	51.70	-7.60	44.10	74.00	-29.90	peak			
6		2658.508	53.44	-7.89	45.55	74.00	-28.45	peak			



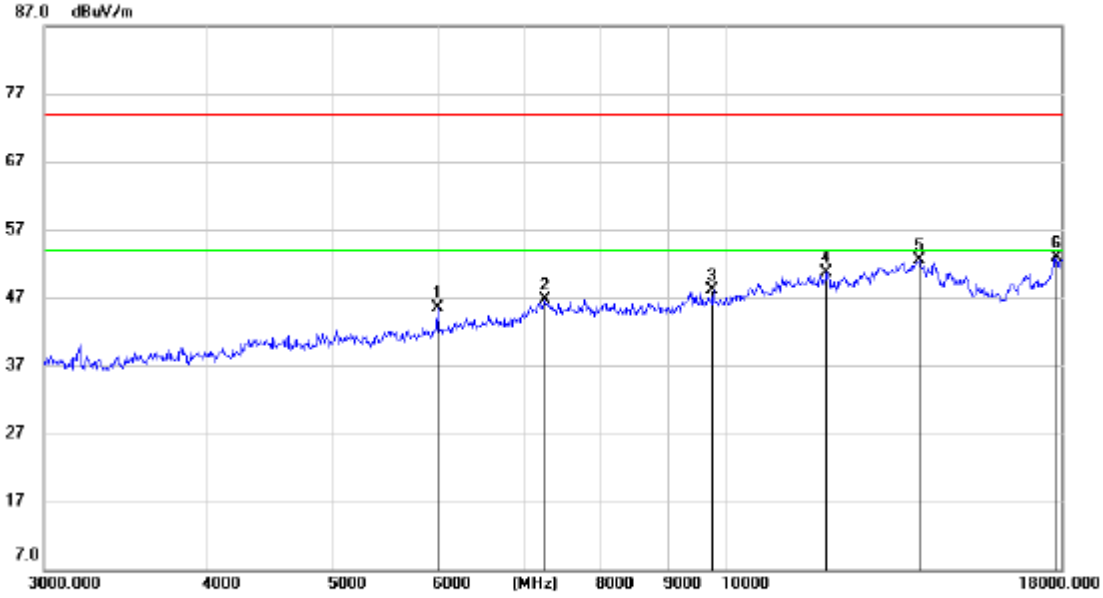
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		6001.583	47.21	3.32	50.53	74.00	-23.47	peak			
2		6378.564	47.13	4.71	51.84	74.00	-22.16	peak			
3		7454.561	40.77	7.72	48.49	74.00	-25.51	peak			
4		11899.24	34.66	16.64	51.30	74.00	-22.70	peak			
5		13807.21	31.43	21.17	52.60	74.00	-21.40	peak			
6	*	17839.46	26.45	26.26	52.71	74.00	-21.29	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL11, HORIZONTAL)



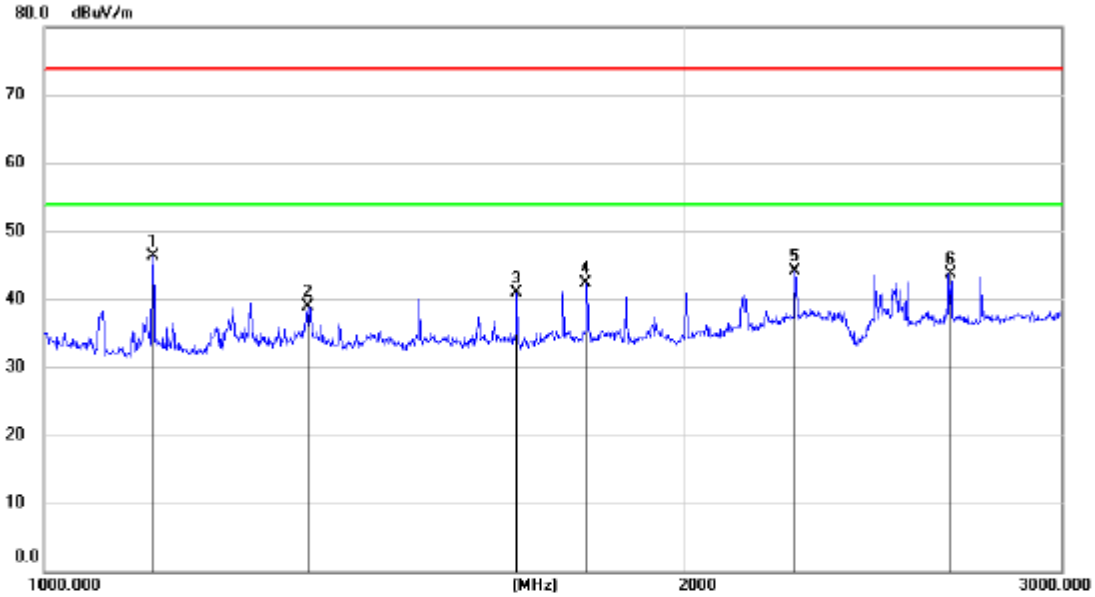
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	59.98	-13.46	46.52	74.00	-27.48	peak			
2		1499.884	55.04	-12.18	42.86	74.00	-31.14	peak			
3		1749.261	53.72	-11.27	42.45	74.00	-31.55	peak			
4		2127.073	52.81	-9.23	43.58	74.00	-30.42	peak			
5	*	2249.653	55.43	-7.60	47.83	74.00	-26.17	peak			
6		2658.508	49.98	-7.81	42.17	74.00	-31.83	peak			



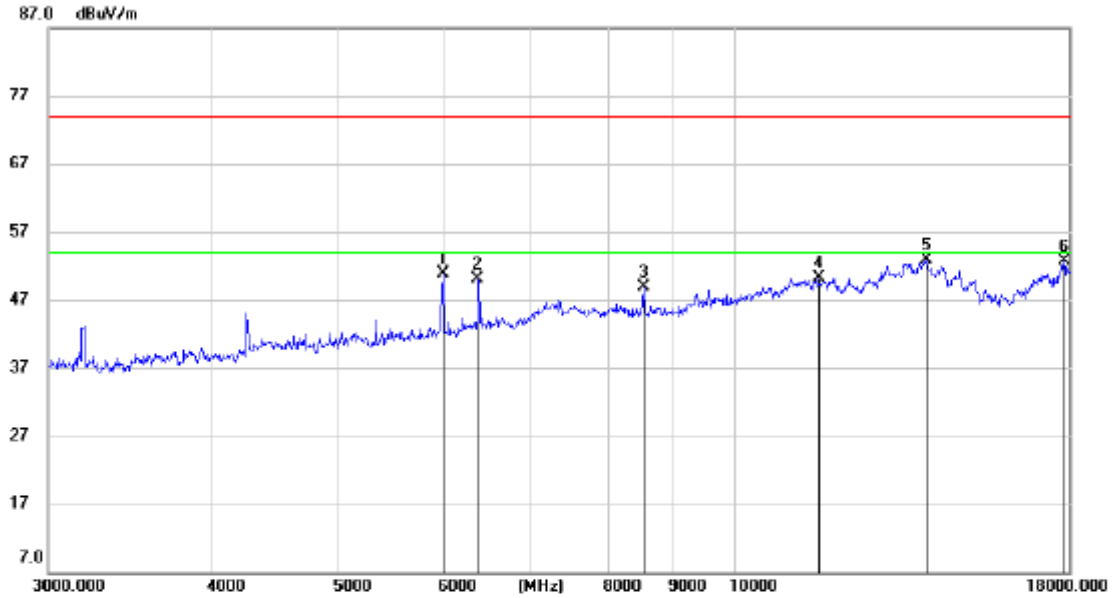
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		6001.583	42.20	3.22	45.42	74.00	-28.58	peak			
2		7243.887	38.80	7.84	46.64	74.00	-27.36	peak			
3		9753.147	36.58	11.58	48.16	74.00	-25.84	peak			
4		11920.58	33.85	16.81	50.66	74.00	-23.34	peak			
5		14031.67	31.87	20.63	52.50	74.00	-21.50	peak			
6	*	17839.46	26.50	26.49	52.99	74.00	-21.01	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL11, VERTICAL)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1124.740	59.99	-13.71	46.28	74.00	-27.72	peak			
2		1330.612	51.39	-12.50	38.89	74.00	-35.11	peak			
3		1666.715	52.66	-11.67	40.99	74.00	-33.01	peak			
4		1797.971	53.35	-11.13	42.22	74.00	-31.78	peak			
5		2249.653	51.62	-7.60	44.02	74.00	-29.98	peak			
6		2658.508	51.56	-7.89	43.67	74.00	-30.33	peak			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		6001.583	47.50	3.32	50.82	74.00	-23.18	peak			
2		6390.003	45.46	4.73	50.19	74.00	-23.81	peak			
3		8526.748	40.28	8.54	48.82	74.00	-25.18	peak			
4		11583.70	34.37	15.92	50.29	74.00	-23.71	peak			
5	*	14006.55	32.28	20.69	52.97	74.00	-21.03	peak			
6		17839.46	26.35	26.26	52.61	74.00	-21.39	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

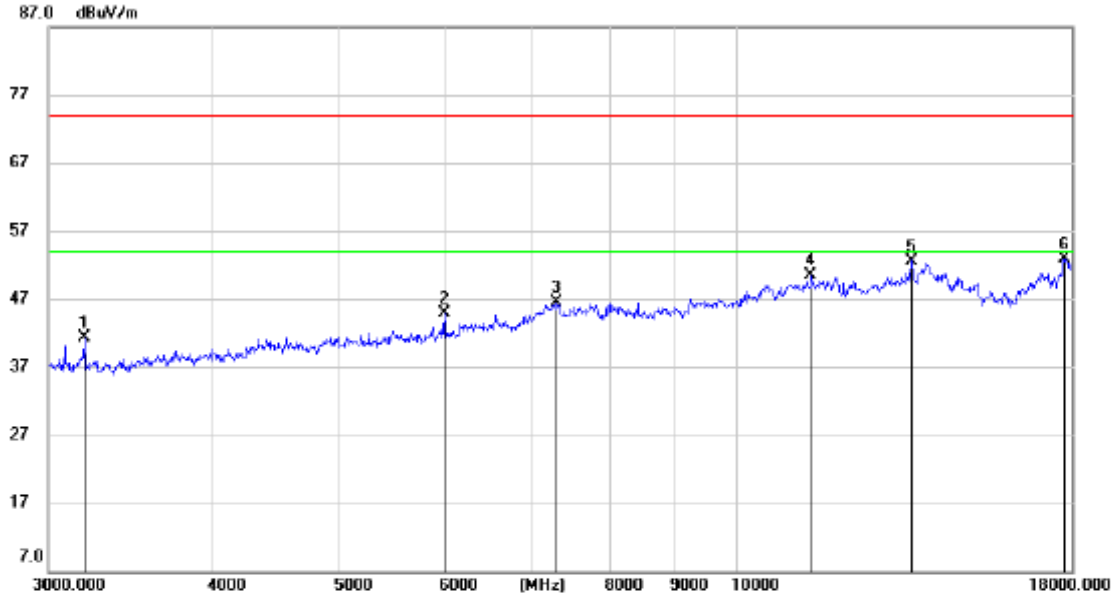
Note: All the antennas had been tested, but only the worst data record in the report.

8.2.3. 802.11n20 MODE

3TX Mode (WORST-CASE CONFIGURATION)

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL1, HORIZONTAL)

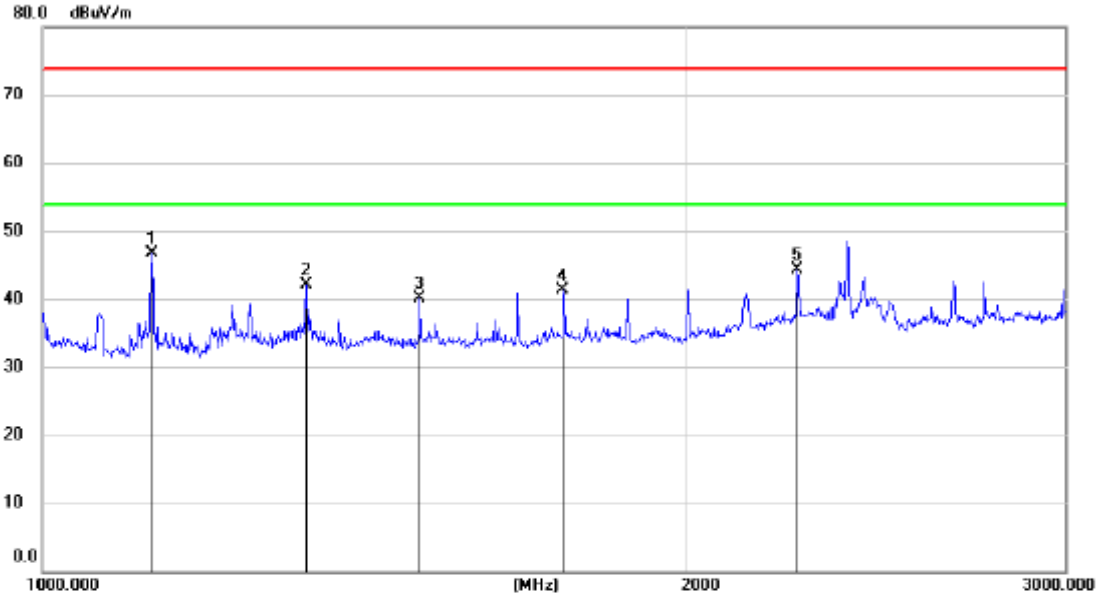
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	59.64	-13.46	46.18	74.00	-27.82	peak			
2		1225.371	53.96	-12.95	41.01	74.00	-32.99	peak			
3		1499.884	53.63	-12.18	41.45	74.00	-32.55	peak			
4		1749.261	52.21	-11.27	40.94	74.00	-33.06	peak			
5	*	2249.653	55.31	-7.60	47.71	74.00	-26.29	peak			
6		2750.608	46.77	-7.22	39.55	74.00	-34.45	peak			



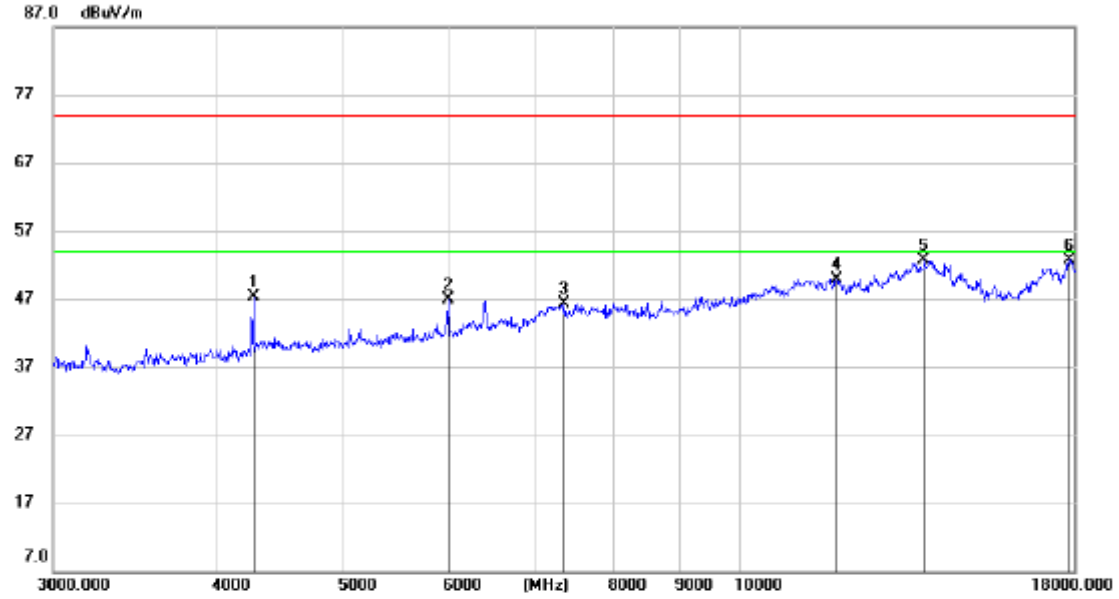
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		3194.159	46.15	-4.75	41.40	74.00	-32.60	peak			
2		6001.583	41.62	3.22	44.84	74.00	-29.16	peak			
3		7295.991	38.71	7.86	46.57	74.00	-27.43	peak			
4		11398.40	34.76	15.67	50.43	74.00	-23.57	peak			
5		13610.71	32.07	20.53	52.60	74.00	-21.40	peak			
6	*	17743.82	27.07	25.85	52.92	74.00	-21.08	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL1, VERTICAL)



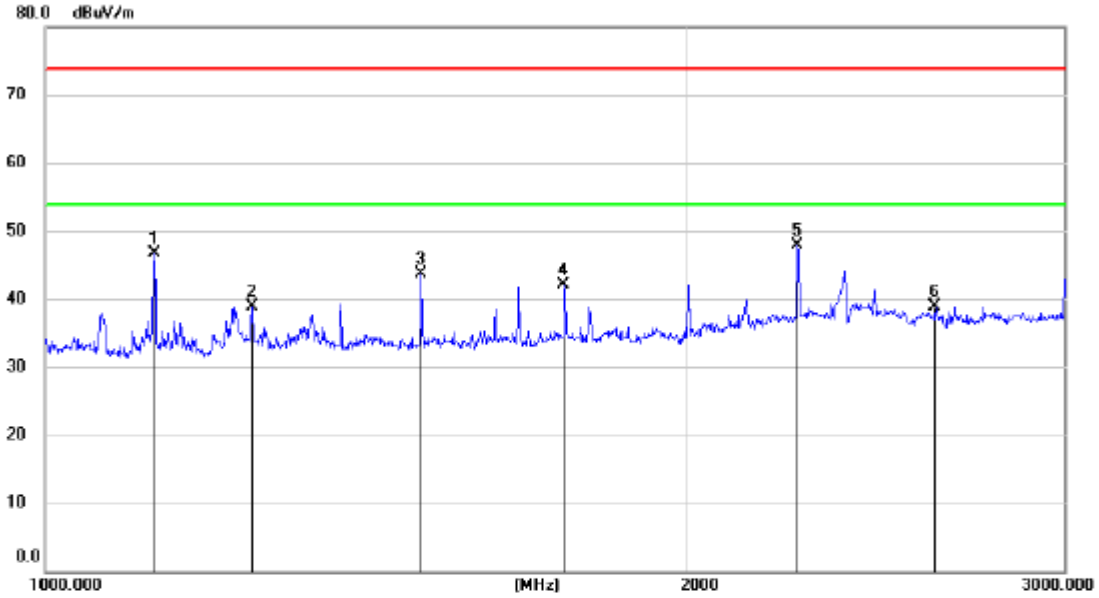
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1124.740	60.35	-13.71	46.64	74.00	-27.36	peak			
2		1327.692	54.69	-12.51	42.18	74.00	-31.82	peak			
3		1499.884	52.29	-12.28	40.01	74.00	-33.99	peak			
4		1749.261	52.54	-11.27	41.27	74.00	-32.73	peak			
5		2249.653	51.89	-7.60	44.29	74.00	-29.71	peak			



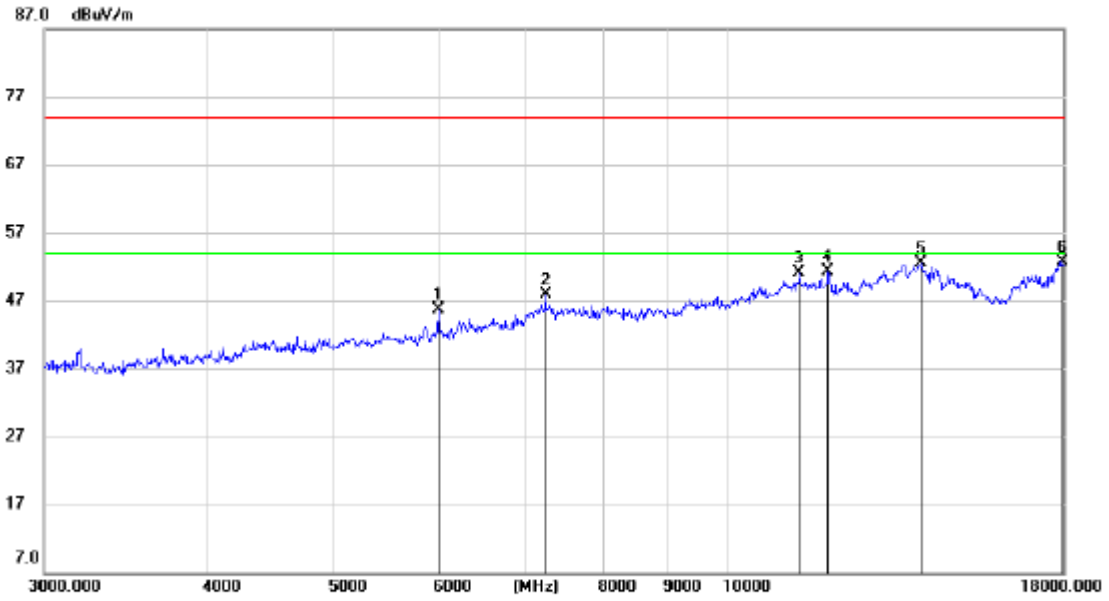
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4262.250	49.16	-1.78	47.38	74.00	-26.62	peak			
2		6001.583	43.59	3.32	46.91	74.00	-27.09	peak			
3		7361.648	39.11	7.29	46.40	74.00	-27.60	peak			
4		11856.68	33.36	16.64	50.00	74.00	-24.00	peak			
5		13831.97	31.58	21.03	52.61	74.00	-21.39	peak			
6	*	17839.46	26.50	26.26	52.76	74.00	-21.24	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL6, HORIZONTAL)



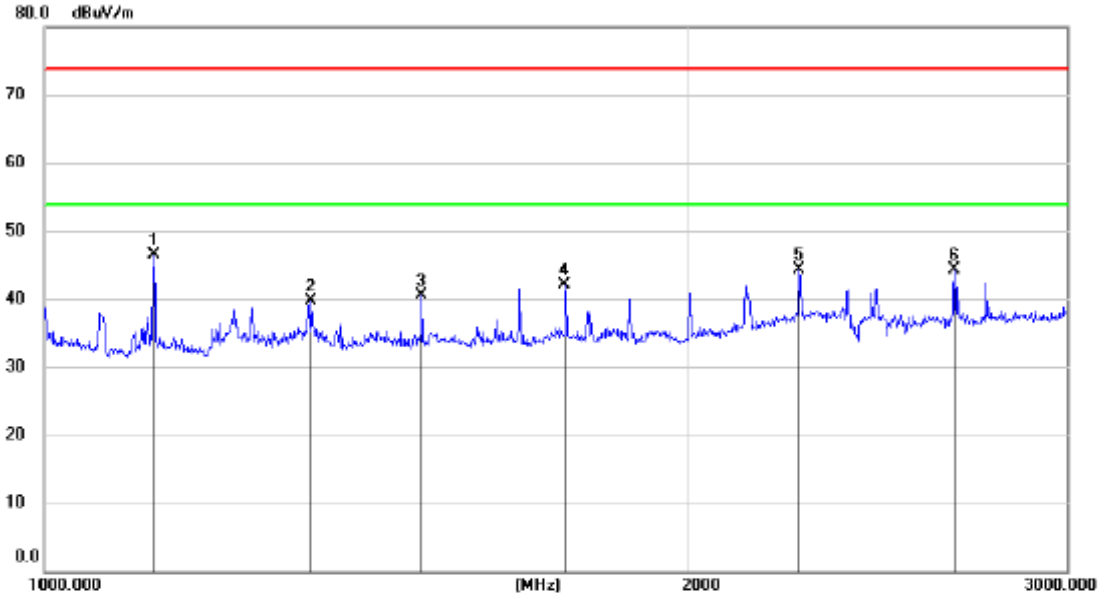
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	60.20	-13.46	46.74	74.00	-27.26	peak			
2		1249.843	51.67	-12.83	38.84	74.00	-35.16	peak			
3		1499.884	55.87	-12.18	43.69	74.00	-30.31	peak			
4		1749.261	53.34	-11.27	42.07	74.00	-31.93	peak			
5	*	2249.653	55.42	-7.60	47.82	74.00	-26.18	peak			
6		2612.185	46.89	-8.04	38.85	74.00	-35.15	peak			



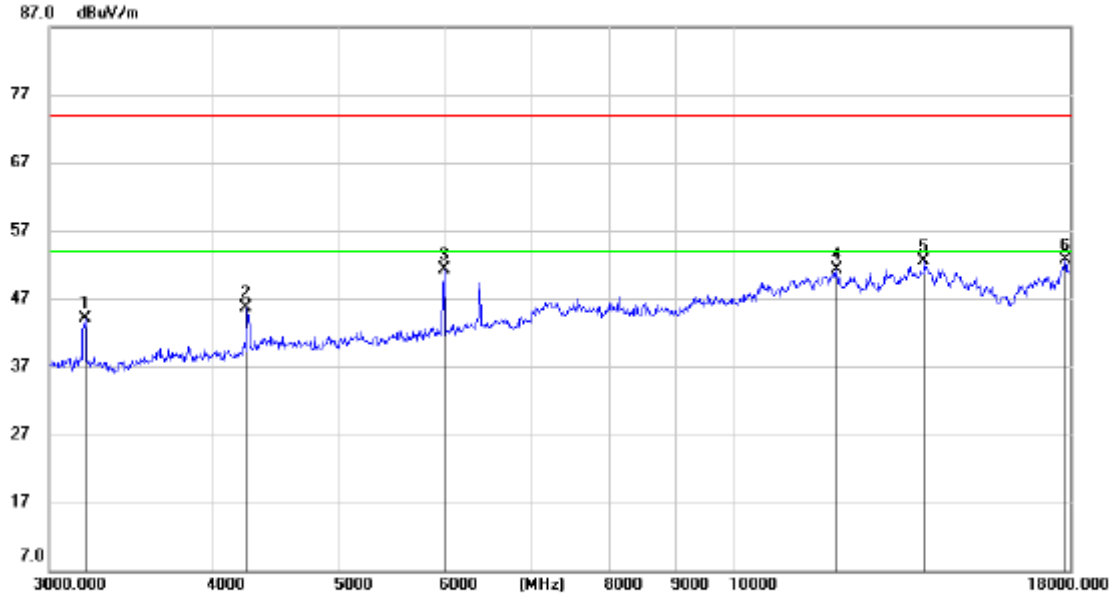
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		6001.583	42.57	3.22	45.79	74.00	-28.21	peak			
2		7243.887	40.01	7.84	47.85	74.00	-26.15	peak			
3		11317.00	35.66	15.35	51.01	74.00	-22.99	peak			
4		11920.58	34.42	16.81	51.23	74.00	-22.77	peak			
5		14031.67	31.81	20.63	52.44	74.00	-21.56	peak			
6	*	17967.77	25.64	27.04	52.68	74.00	-21.32	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL6, VERTICAL)



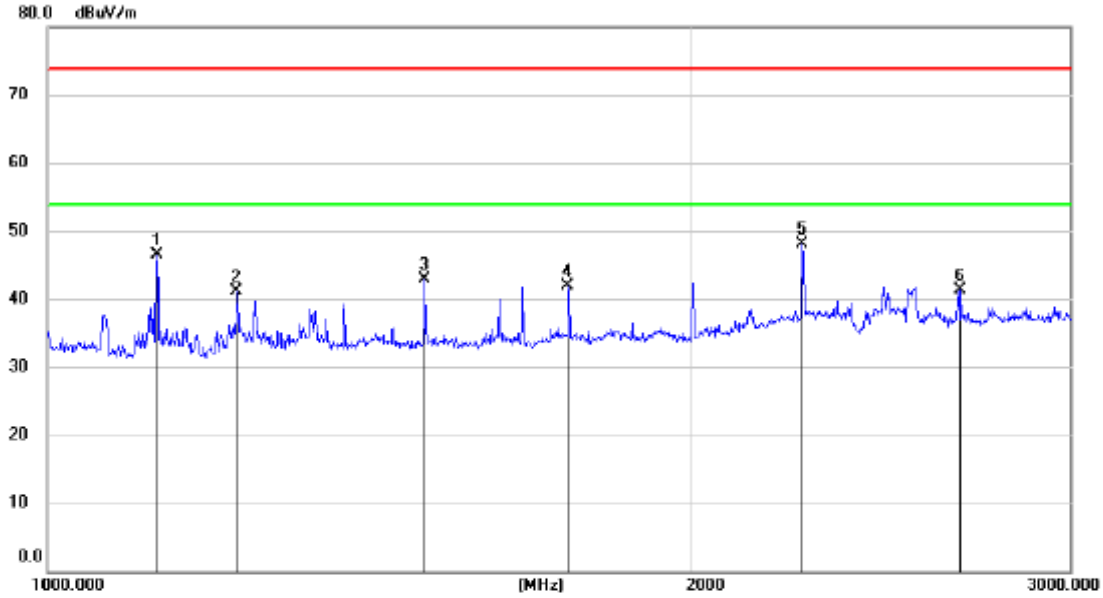
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1124.740	60.20	-13.71	46.49	74.00	-27.51	peak			
2		1332.075	52.18	-12.48	39.70	74.00	-34.30	peak			
3		1499.884	52.76	-12.28	40.48	74.00	-33.52	peak			
4		1749.261	53.39	-11.27	42.12	74.00	-31.88	peak			
5		2249.653	51.83	-7.60	44.23	74.00	-29.77	peak			
6		2658.508	52.13	-7.89	44.24	74.00	-29.76	peak			



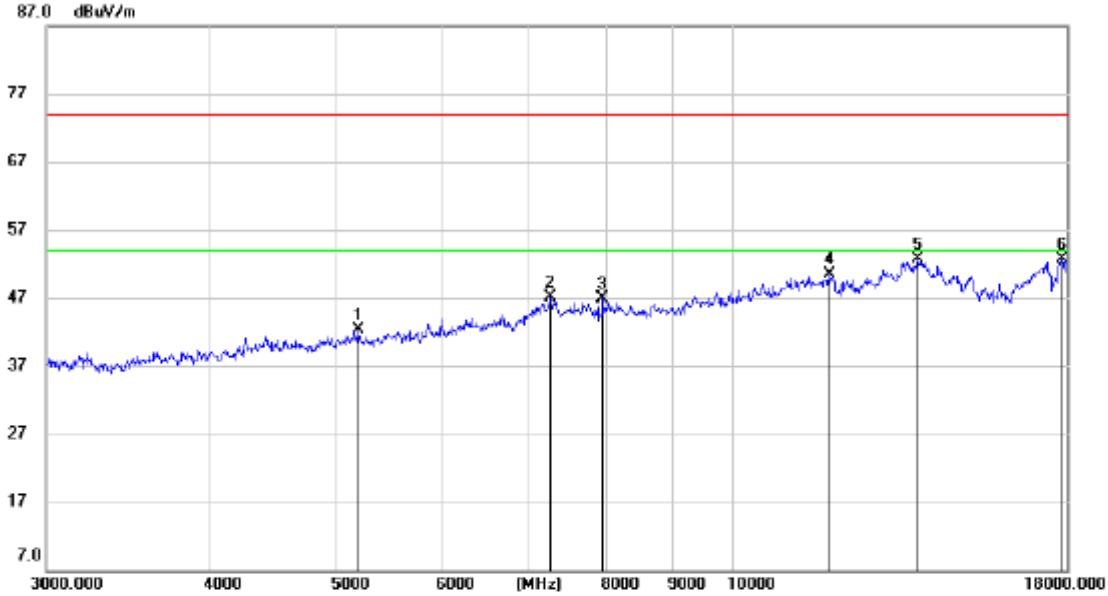
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		3194.159	48.83	-4.74	44.09	74.00	-29.91	peak			
2		4247.003	47.69	-1.90	45.79	74.00	-28.21	peak			
3		6001.583	47.94	3.32	51.26	74.00	-22.74	peak			
4		11963.38	34.63	16.63	51.26	74.00	-22.74	peak			
5		13931.46	31.77	20.81	52.58	74.00	-21.42	peak			
6	*	17839.46	26.35	26.26	52.61	74.00	-21.39	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL11, HORIZONTAL)



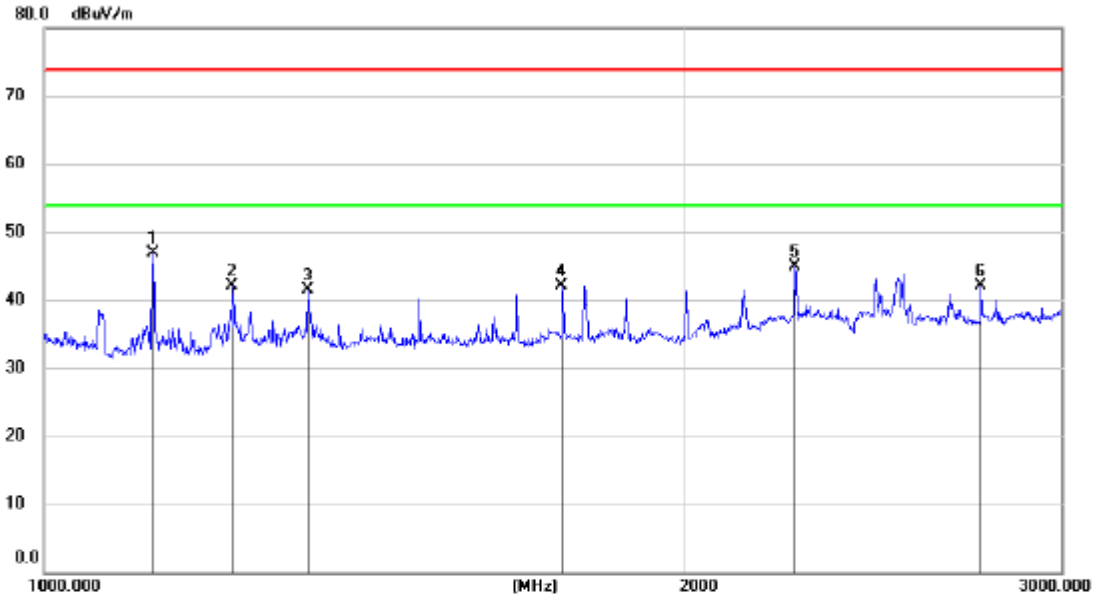
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	59.96	-13.46	46.50	74.00	-27.50	peak			
2		1226.717	54.10	-12.94	41.16	74.00	-32.84	peak			
3		1499.884	55.11	-12.18	42.93	74.00	-31.07	peak			
4		1749.261	53.08	-11.27	41.81	74.00	-32.19	peak			
5	*	2249.653	55.61	-7.60	48.01	74.00	-25.99	peak			
6		2667.284	49.15	-7.77	41.38	74.00	-32.62	peak			



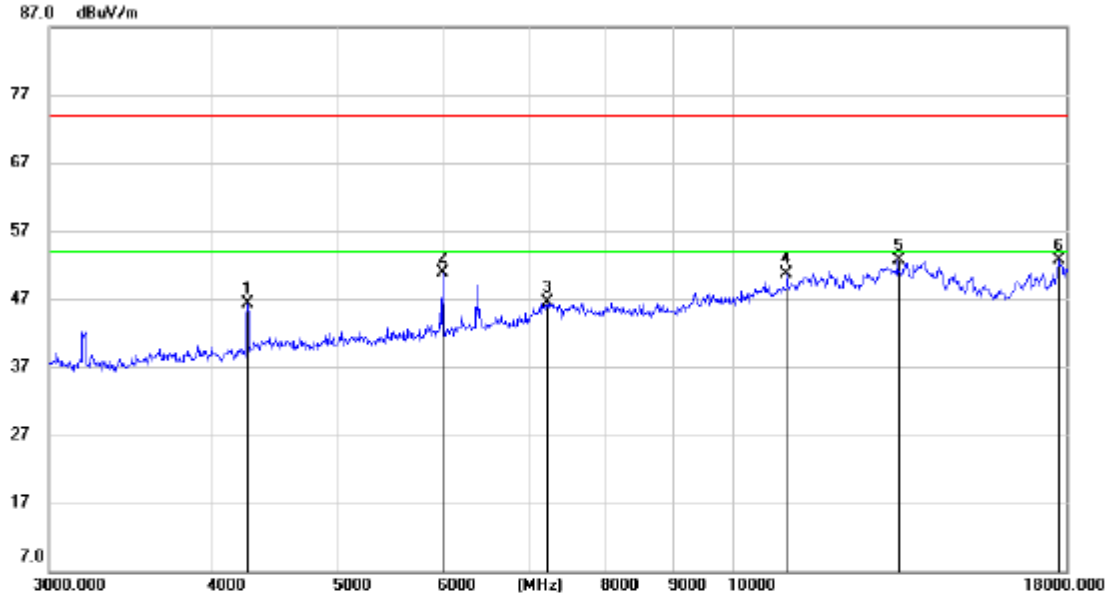
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		5190.815	41.24	1.07	42.31	74.00	-31.69	peak			
2		7269.892	39.19	7.86	47.05	74.00	-26.95	peak			
3		7965.512	38.60	8.26	46.86	74.00	-27.14	peak			
4		11856.68	34.22	16.27	50.49	74.00	-23.51	peak			
5		13856.78	31.97	20.72	52.69	74.00	-21.31	peak			
6	*	17839.46	26.29	26.49	52.78	74.00	-21.22	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL11, VERTICAL)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1124.740	60.61	-13.71	46.90	74.00	-27.10	peak			
2		1226.717	55.11	-12.94	42.17	74.00	-31.83	peak			
3		1330.612	53.91	-12.50	41.41	74.00	-32.59	peak			
4		1749.261	53.41	-11.27	42.14	74.00	-31.86	peak			
5		2249.653	52.45	-7.60	44.85	74.00	-29.15	peak			
6		2750.608	49.48	-7.32	42.16	74.00	-31.84	peak			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4254.620	48.11	-1.85	46.26	74.00	-27.74	peak			
2		6001.583	47.49	3.32	50.81	74.00	-23.19	peak			
3		7230.919	38.66	7.79	46.45	74.00	-27.55	peak			
4		10997.16	36.26	14.51	50.77	74.00	-23.23	peak			
5	*	13369.01	33.03	19.63	52.66	74.00	-21.34	peak			
6		17743.82	26.44	26.19	52.63	74.00	-21.37	peak			

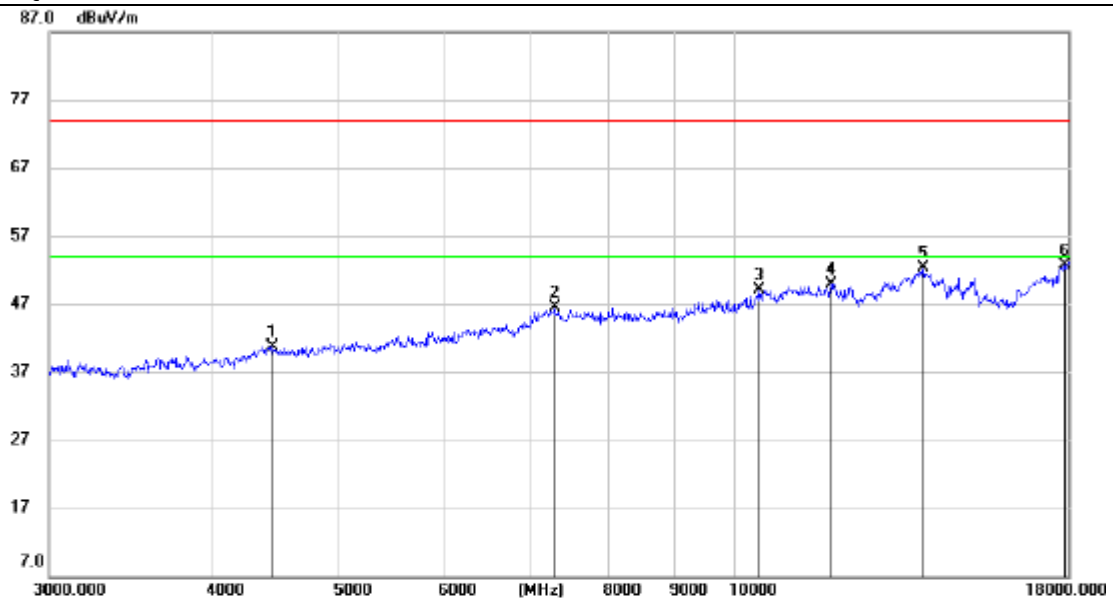
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

8.2.4. 802.11n40 MODE

3TX Mode (WORST-CASE CONFIGURATION)

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL3, HORIZONTAL)

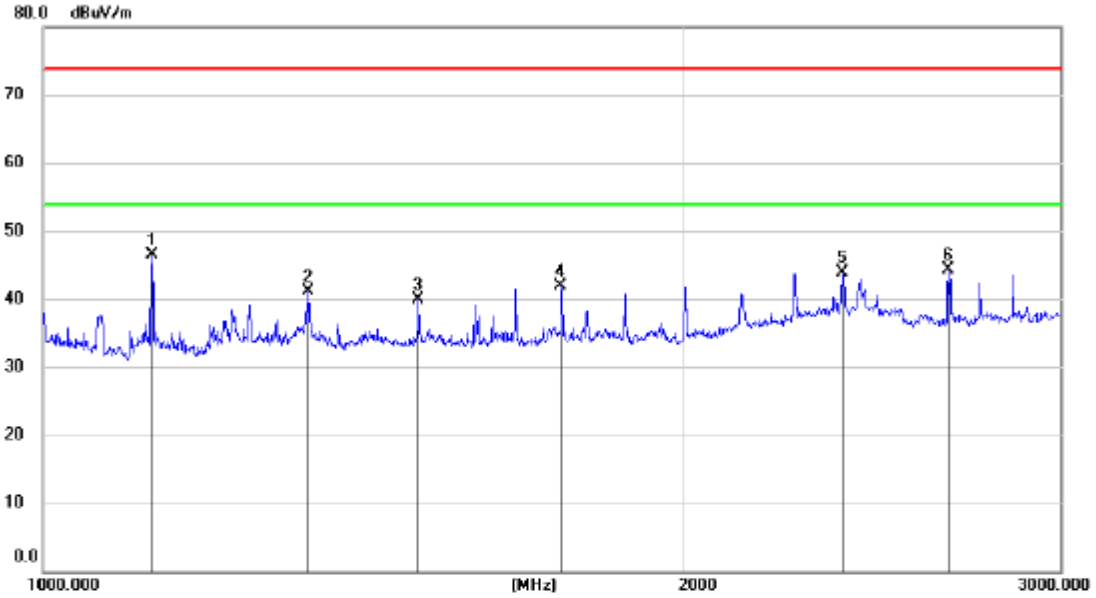
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	59.96	-13.46	46.50	74.00	-27.50	peak			
2		1226.717	53.86	-12.94	40.92	74.00	-33.08	peak			
3		1499.884	55.24	-12.18	43.06	74.00	-30.94	peak			
4		1749.261	53.39	-11.27	42.12	74.00	-31.88	peak			
5	*	2249.653	55.44	-7.60	47.84	74.00	-26.16	peak			
6		2366.263	55.10	-7.87	47.23	74.00	-26.77	peak			



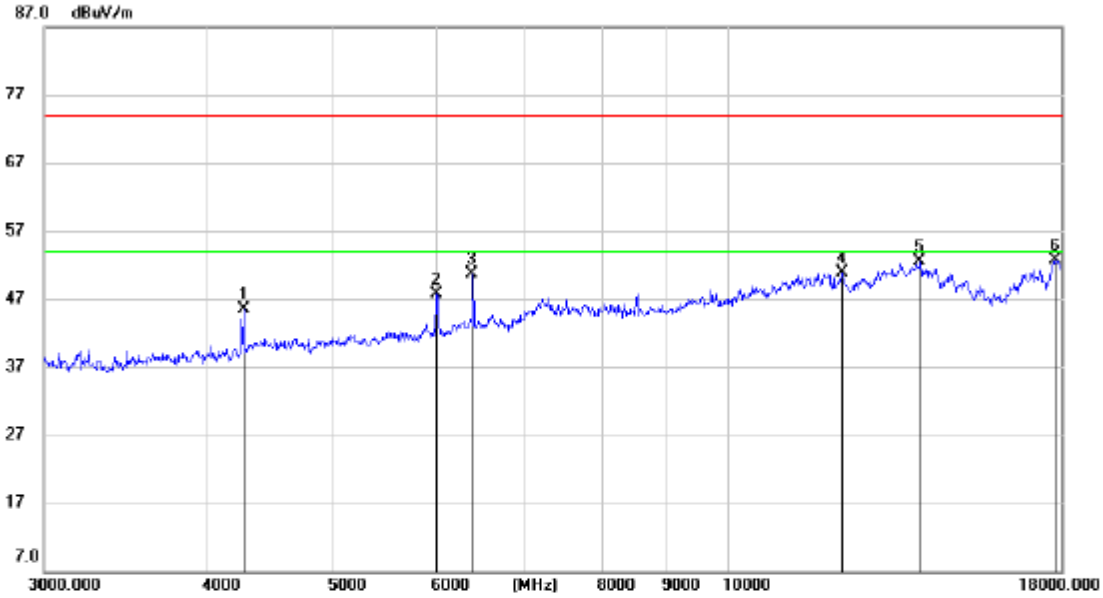
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4441.569	41.60	-0.85	40.75	74.00	-33.25	peak			
2		7295.991	38.55	7.86	46.41	74.00	-27.59	peak			
3		10459.06	35.63	13.47	49.10	74.00	-24.90	peak			
4		11856.68	33.68	16.27	49.95	74.00	-24.05	peak			
5		13956.45	31.66	20.68	52.34	74.00	-21.66	peak			
6	*	17871.45	26.33	26.36	52.69	74.00	-21.31	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL3, VERTICAL)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1124.740	60.13	-13.71	46.42	74.00	-27.58	peak			
2		1332.075	53.51	-12.48	41.03	74.00	-32.97	peak			
3		1499.884	52.19	-12.28	39.91	74.00	-34.09	peak			
4		1749.261	53.18	-11.27	41.91	74.00	-32.09	peak			
5		2371.468	51.60	-7.79	43.81	74.00	-30.19	peak			
6		2658.508	52.13	-7.89	44.24	74.00	-29.76	peak			

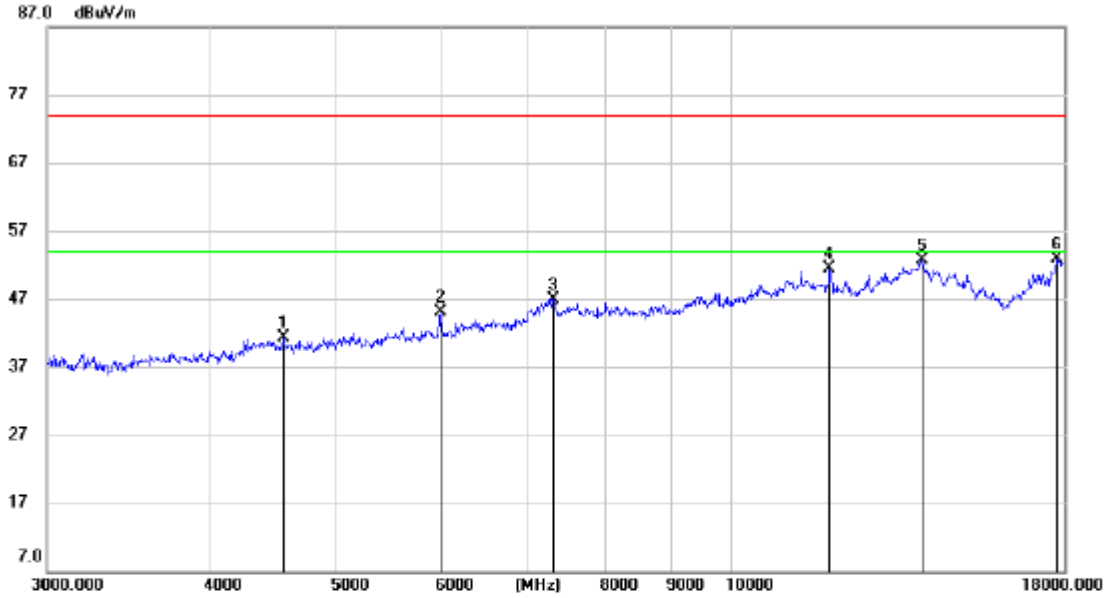


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4262.250	47.37	-1.78	45.59	74.00	-28.41	peak			
2		5990.839	44.47	3.30	47.77	74.00	-26.23	peak			
3		6390.003	46.05	4.73	50.78	74.00	-23.22	peak			
4		12245.31	34.62	16.31	50.93	74.00	-23.07	peak			
5		14031.67	31.91	20.61	52.52	74.00	-21.48	peak			
6	*	17807.52	25.88	26.76	52.64	74.00	-21.36	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL6, HORIZONTAL)

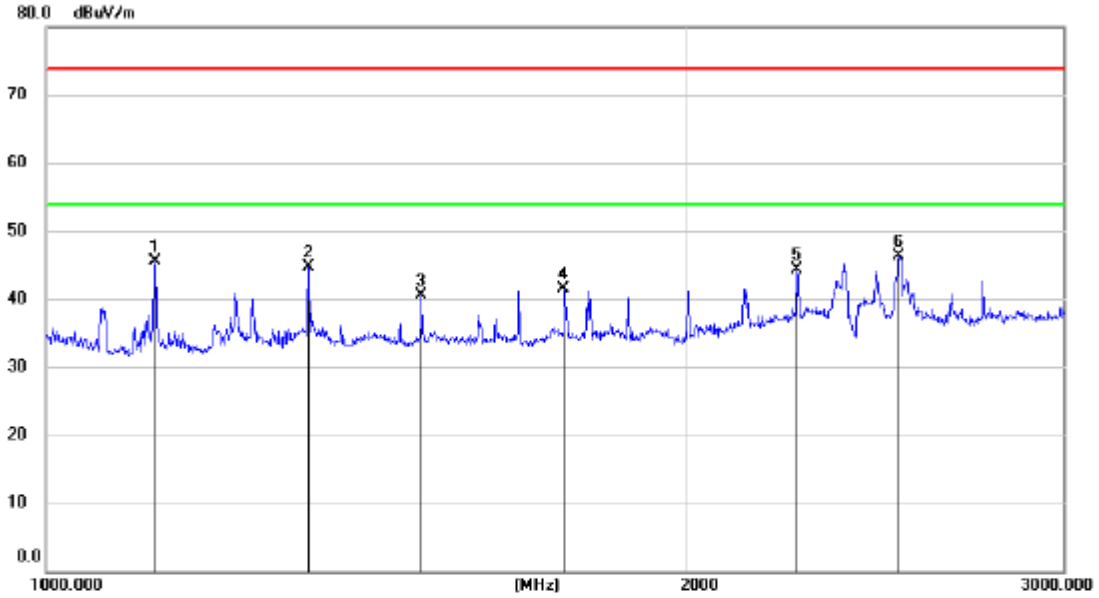
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	59.48	-13.46	46.02	74.00	-27.98	peak			
2		1226.717	51.99	-12.94	39.05	74.00	-34.95	peak			
3		1333.539	51.81	-12.38	39.43	74.00	-34.57	peak			
4		1499.884	53.63	-12.18	41.45	74.00	-32.55	peak			
5		1749.261	52.79	-11.27	41.52	74.00	-32.48	peak			
6	*	2513.649	56.37	-8.38	47.99	74.00	-26.01	peak			



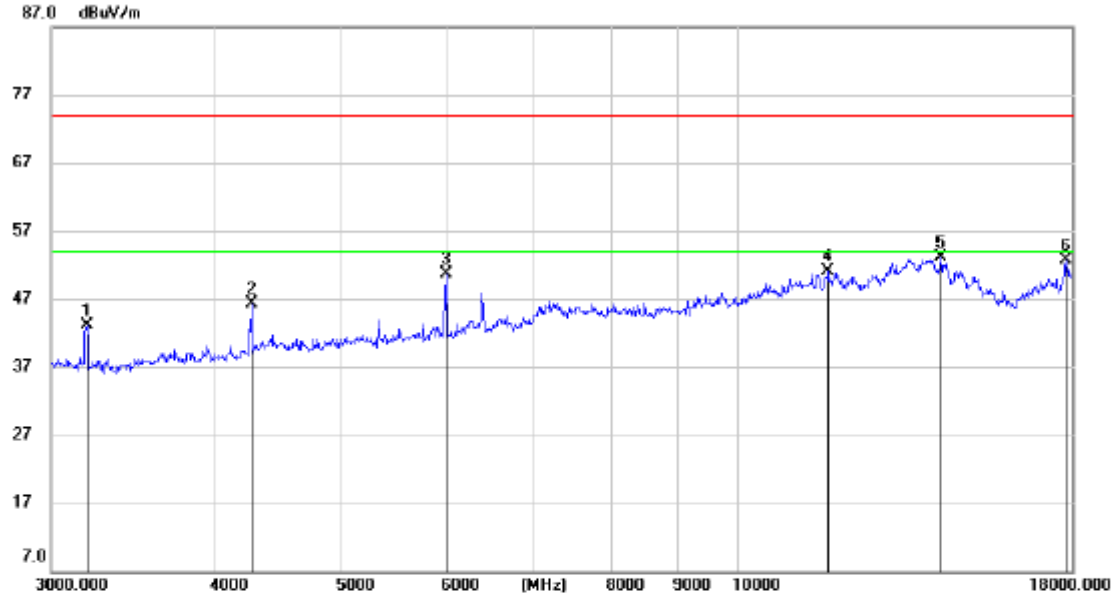
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4546.240	41.99	-0.78	41.21	74.00	-32.79	peak			
2		6001.583	41.85	3.22	45.07	74.00	-28.93	peak			
3		7322.183	39.29	7.60	46.89	74.00	-27.11	peak			
4		11920.58	34.69	16.81	51.50	74.00	-22.50	peak			
5		14006.55	32.08	20.61	52.69	74.00	-21.31	peak			
6	*	17743.82	27.14	25.85	52.99	74.00	-21.01	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL6, VERTICAL)



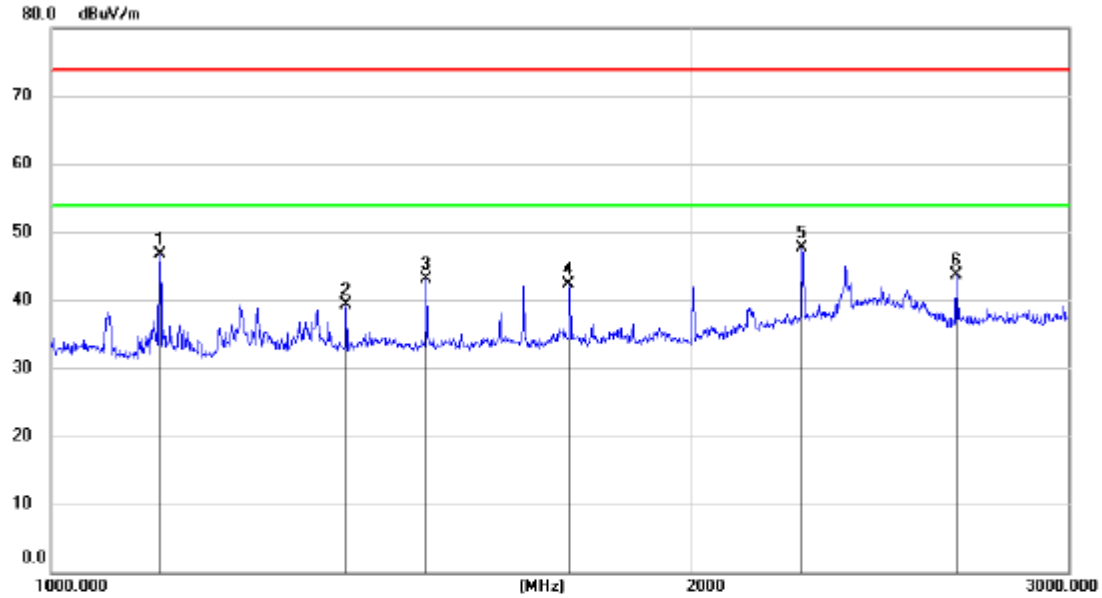
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	59.31	-13.71	45.60	74.00	-28.40	peak			
2		1327.692	57.20	-12.51	44.69	74.00	-29.31	peak			
3		1499.884	52.81	-12.28	40.53	74.00	-33.47	peak			
4		1749.261	52.77	-11.27	41.50	74.00	-32.50	peak			
5		2249.653	51.92	-7.60	44.32	74.00	-29.68	peak			
6	*	2513.649	54.49	-8.28	46.21	74.00	-27.79	peak			



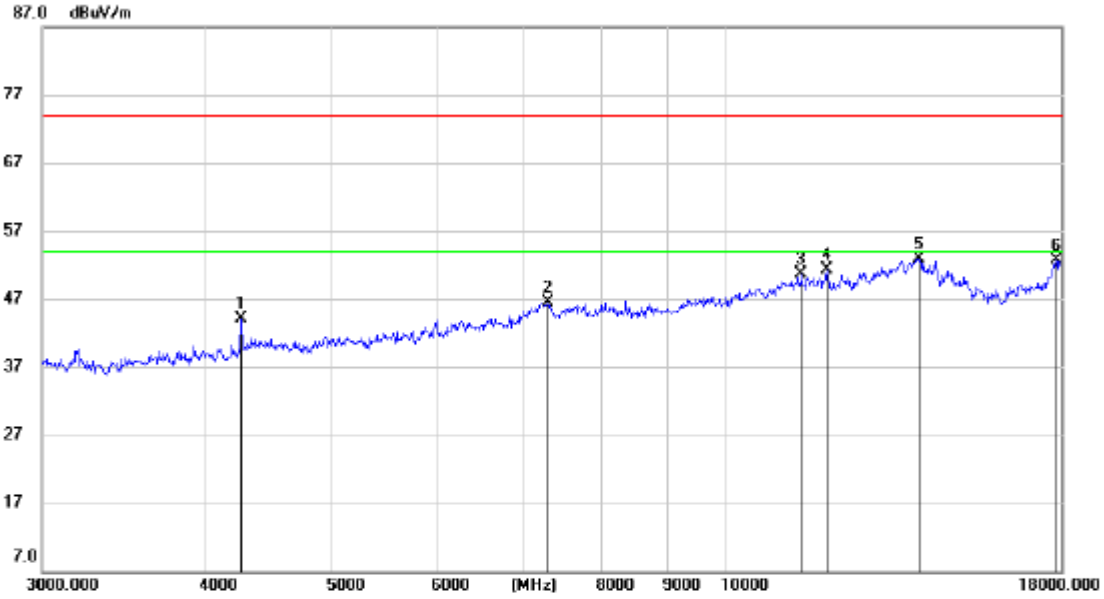
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		3194.159	47.76	-4.74	43.02	74.00	-30.98	peak			
2		4262.250	48.03	-1.78	46.25	74.00	-27.75	peak			
3		6001.583	47.47	3.32	50.79	74.00	-23.21	peak			
4		11750.93	35.26	15.86	51.12	74.00	-22.88	peak			
5	*	14285.35	33.07	19.96	53.03	74.00	-20.97	peak			
6		17807.52	26.00	26.76	52.76	74.00	-21.24	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL9, HORIZONTAL)



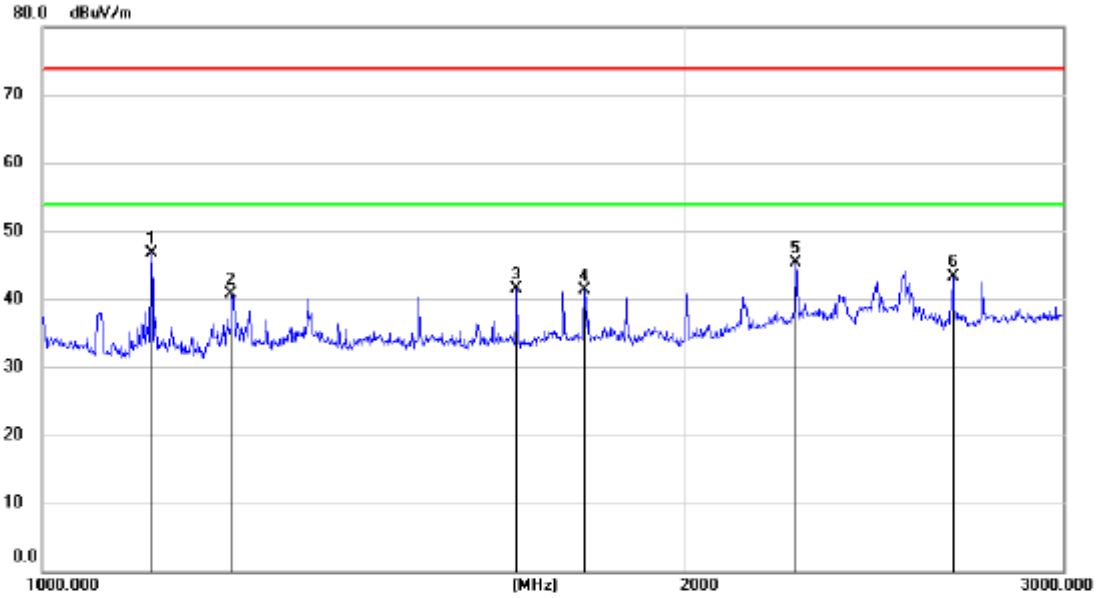
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		1124.740	60.24	-13.46	46.78	74.00	-27.22	peak			
2		1375.198	51.57	-12.22	39.35	74.00	-34.65	peak			
3		1499.884	55.31	-12.18	43.13	74.00	-30.87	peak			
4		1749.261	53.52	-11.27	42.25	74.00	-31.75	peak			
5	*	2249.653	55.27	-7.60	47.67	74.00	-26.33	peak			
6		2658.508	51.59	-7.81	43.78	74.00	-30.22	peak			



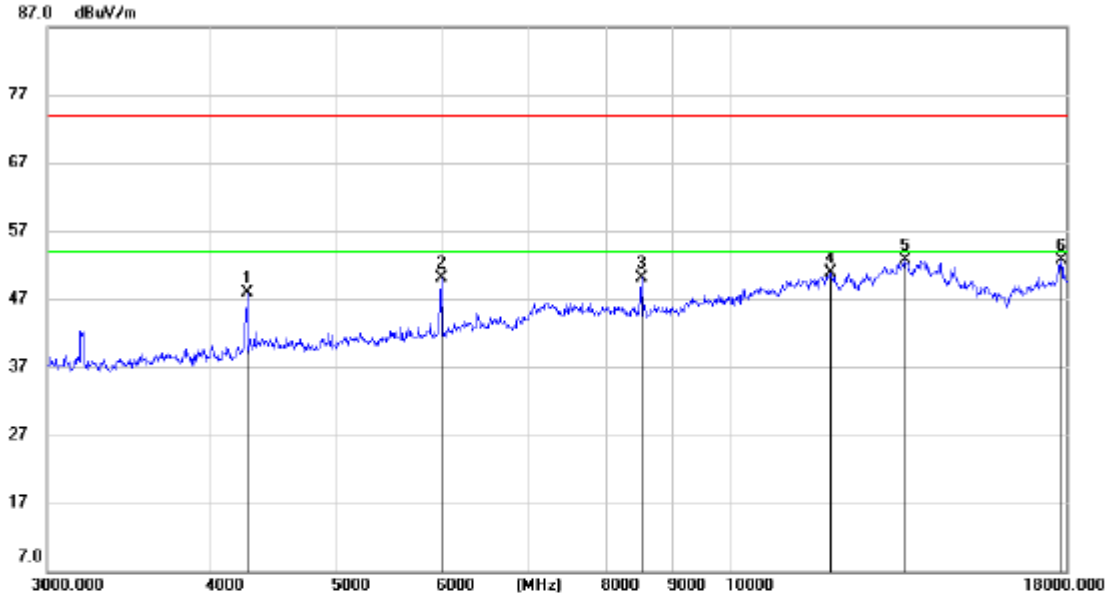
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4254.620	46.15	-1.95	44.20	74.00	-29.80	peak			
2		7309.075	38.69	7.75	46.44	74.00	-27.56	peak			
3		11398.40	35.06	15.67	50.73	74.00	-23.27	peak			
4		11941.96	34.76	16.48	51.24	74.00	-22.76	peak			
5	*	14006.55	32.25	20.61	52.86	74.00	-21.14	peak			
6		17839.46	26.21	26.49	52.70	74.00	-21.30	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL9, VERTICAL)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	1124.740	60.32	-13.71	46.61	74.00	-27.39	peak			
2		1226.717	53.72	-12.94	40.78	74.00	-33.22	peak			
3		1666.715	53.22	-11.67	41.55	74.00	-32.45	peak			
4		1792.055	52.53	-11.16	41.37	74.00	-32.63	peak			
5		2249.653	52.83	-7.60	45.23	74.00	-28.77	peak			
6		2664.355	51.19	-7.85	43.34	74.00	-30.66	peak			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4262.250	49.72	-1.78	47.94	74.00	-26.06	peak			
2		6001.583	46.77	3.32	50.09	74.00	-23.91	peak			
3		8526.748	41.66	8.54	50.20	74.00	-23.80	peak			
4		11899.24	34.33	16.64	50.97	74.00	-23.03	peak			
5	*	13586.34	32.12	20.51	52.63	74.00	-21.37	peak			
6		17839.46	26.35	26.26	52.61	74.00	-21.39	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG:VBW=1/T,(For the value of 1/T,please refer to the table on page 17).
5. For transmit duration, please refer to clause 7.1.

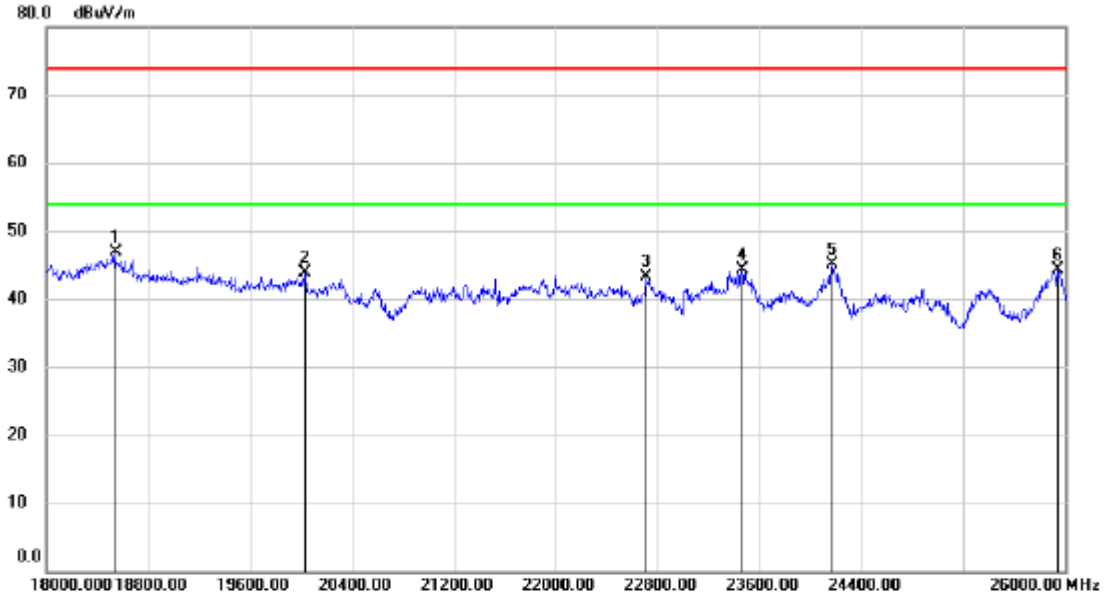
Note: All transmission modes and antennas were tested, but only the worst data was recorded in the report.

8.3. SPURIOUS EMISSIONS (18~25GHz)

8.3.1. 802.11b MODE

SPURIOUS EMISSIONS 3TX Mod,

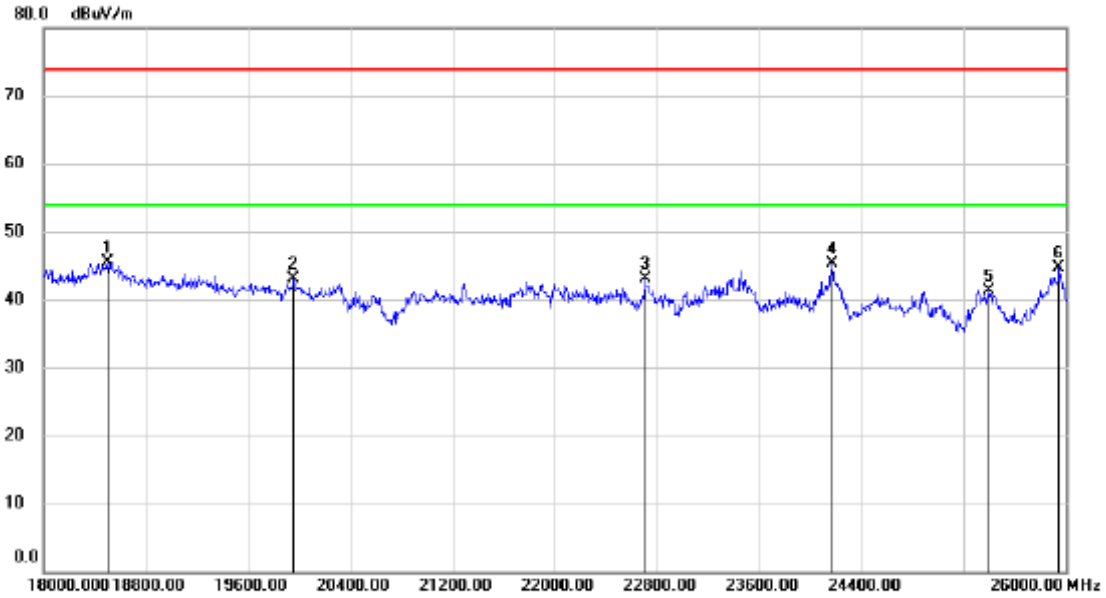
HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	18544.00	52.15	-5.28	46.87	74.00	-27.13	peak			
2		20032.00	49.42	-5.47	43.95	74.00	-30.05	peak			
3		22704.00	47.08	-3.73	43.35	74.00	-30.65	peak			
4		23464.00	47.50	-3.18	44.32	74.00	-29.68	peak			
5		24168.00	47.93	-2.81	45.12	74.00	-28.88	peak			
6		25944.00	45.27	-0.96	44.31	74.00	-29.69	peak			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	18504.00	50.75	-5.25	45.50	74.00	-28.50	peak			
2		19960.00	48.43	-5.42	43.01	74.00	-30.99	peak			
3		22704.00	46.82	-3.73	43.09	74.00	-30.91	peak			
4		24168.00	48.07	-2.81	45.26	74.00	-28.74	peak			
5		25400.00	43.14	-1.74	41.40	74.00	-32.60	peak			
6		25944.00	45.65	-0.96	44.69	74.00	-29.31	peak			

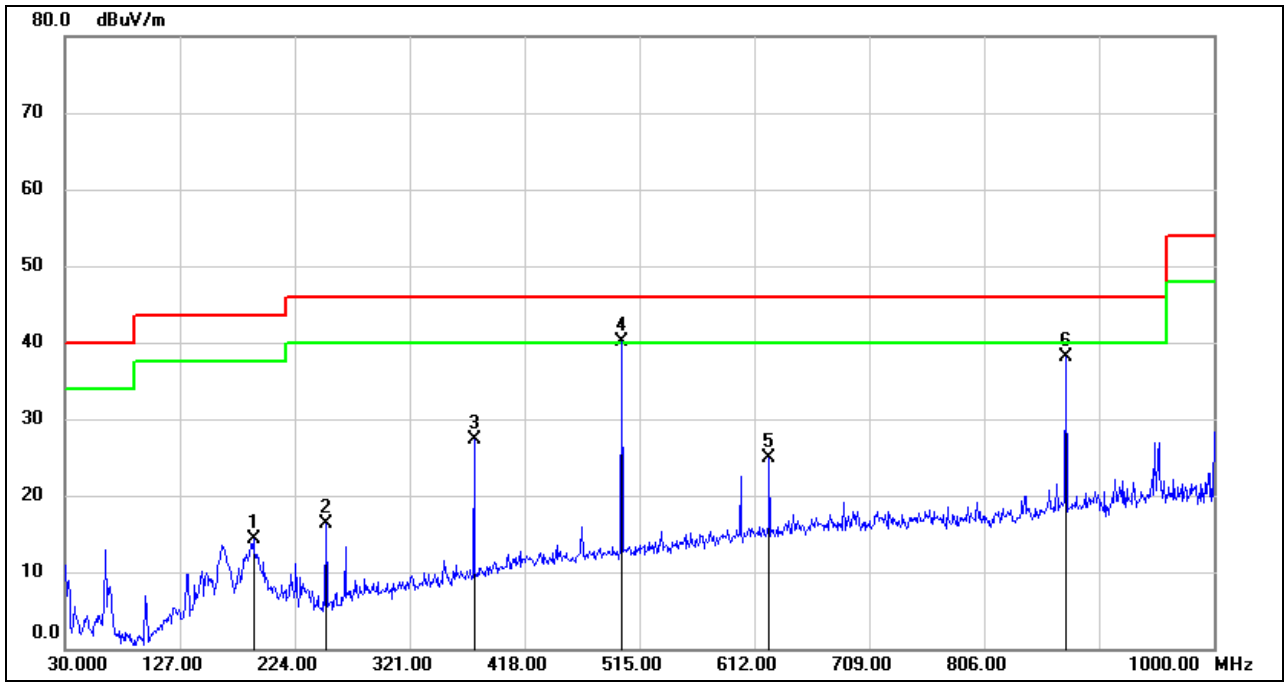
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

Note: All transmission modes and channels had been tested, but only the worst data recorded in the report.

8.4. SPURIOUS EMISSIONS (30M ~ 1 GHz)

8.4.1. 802.11b MODE

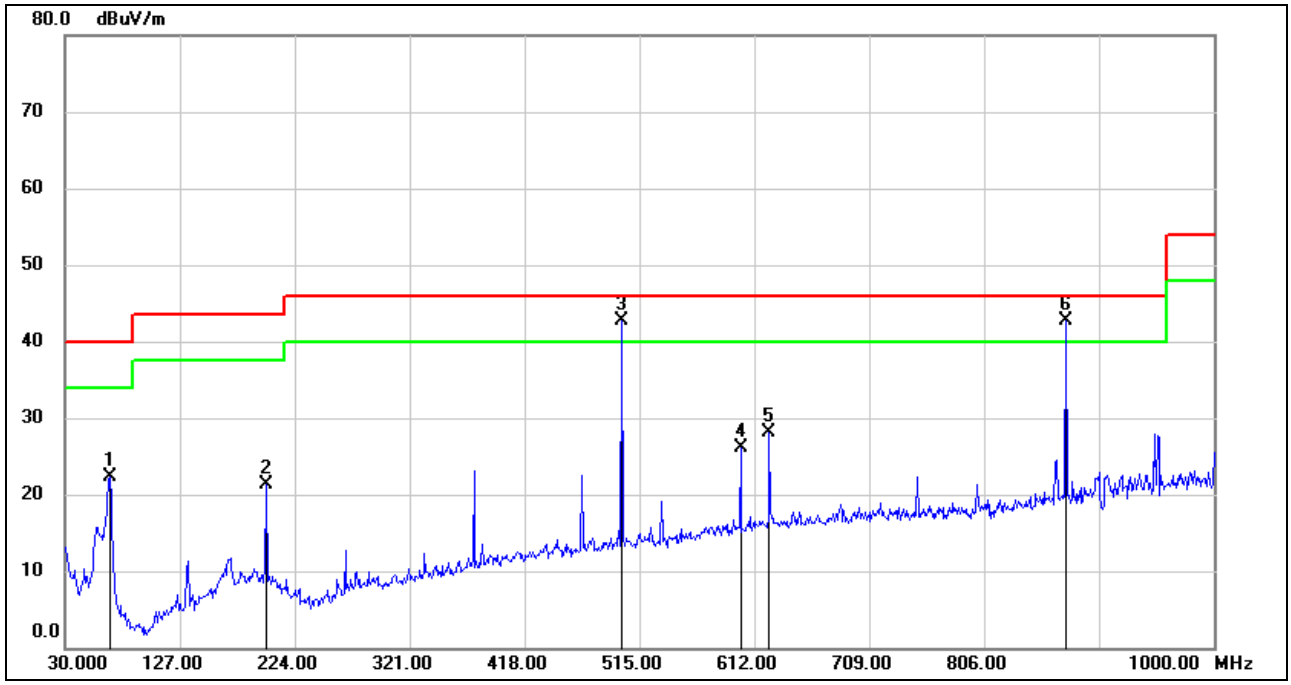
SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	189.0800	29.25	-15.00	14.25	43.50	-29.25	QP
2	250.1900	33.99	-17.70	16.29	46.00	-29.71	QP
3	375.3200	40.27	-13.05	27.22	46.00	-18.78	QP
4	500.4500	51.25	-11.11	40.14	46.00	-5.86	QP
5	624.6100	33.79	-8.80	24.99	46.00	-21.01	QP
6	874.8700	43.89	-5.70	38.19	46.00	-7.81	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	67.8300	43.97	-21.59	22.38	40.00	-17.62	QP
2	199.7500	36.19	-14.88	21.31	43.50	-22.19	QP
3	500.4500	53.81	-11.11	42.70	46.00	-3.30	QP
4	600.3600	35.17	-9.01	26.16	46.00	-19.84	QP
5	624.6100	36.95	-8.80	28.15	46.00	-17.85	QP
6	874.8700	48.42	-5.70	42.72	46.00	-3.28	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

Note: All transmission modes and channels had been tested, but only the worst data recorded in the report.

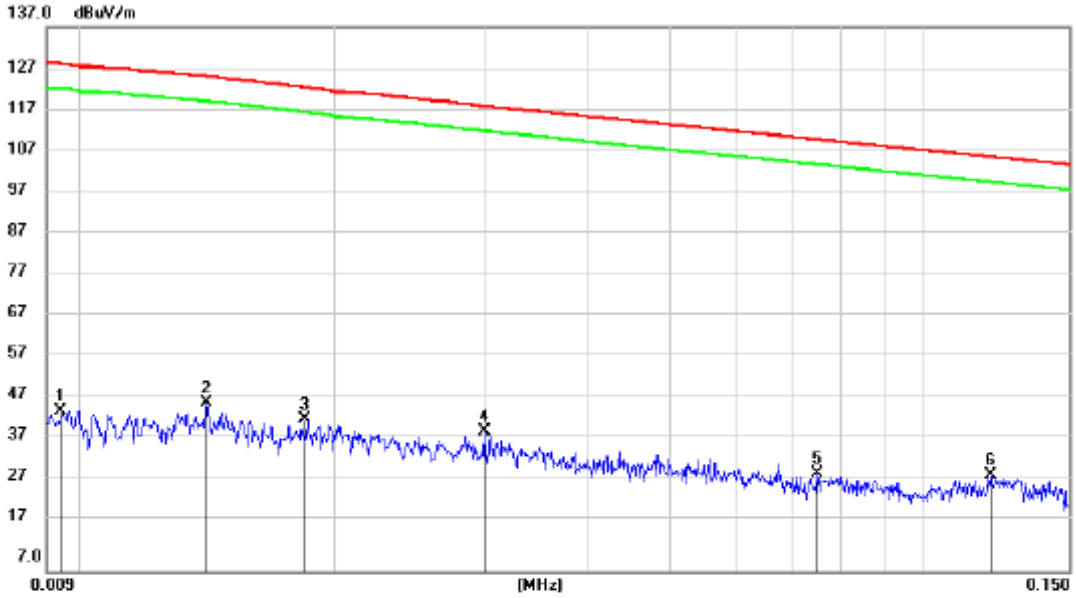
8.5. SPURIOUS EMISSIONS BELOW 30M

8.5.1. 802.11b MODE

SPURIOUS EMISSIONS (Without 3TX MODE, LOW CHANNEL,

WORST-CASE CONFIGURATION, HORIZONTAL)

9 KHz~ 150 KHz

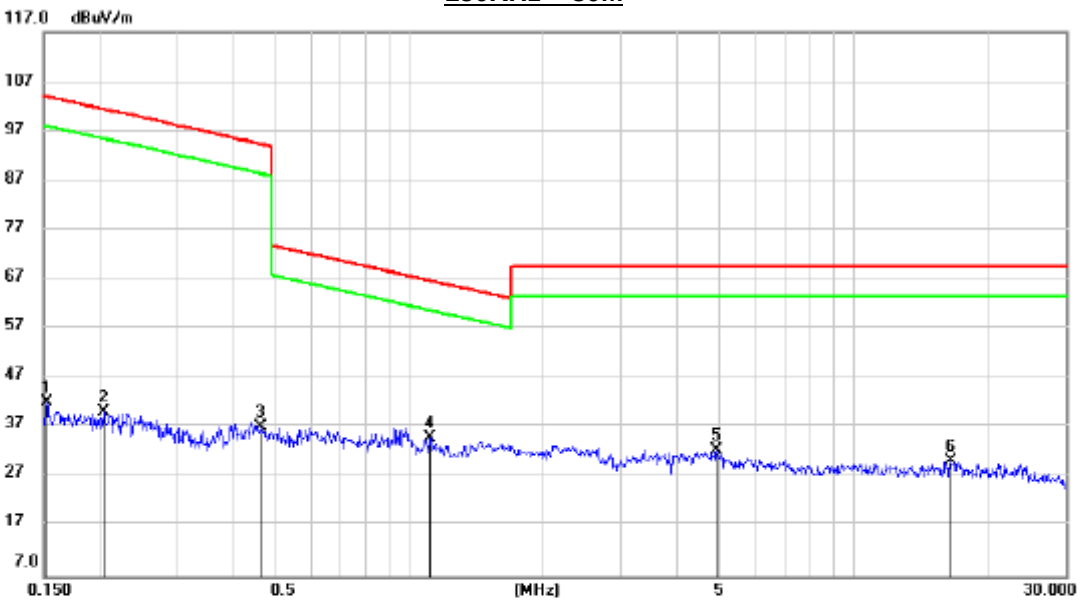


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.0094	25.04	20.26	45.30	128.0	-82.76	QP			
2		0.0140	27.02	20.25	47.27	125.1	-77.92	QP			
3		0.0183	22.94	20.29	43.23	122.6	-79.37	QP			
4		0.0300	19.97	20.31	40.28	118.0	-77.78	QP			
5		0.0751	10.03	20.31	30.34	110.1	-79.77	QP			
6	*	0.1208	9.51	20.30	29.81	105.9	-76.15	QP			

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

150KHz ~ 30M

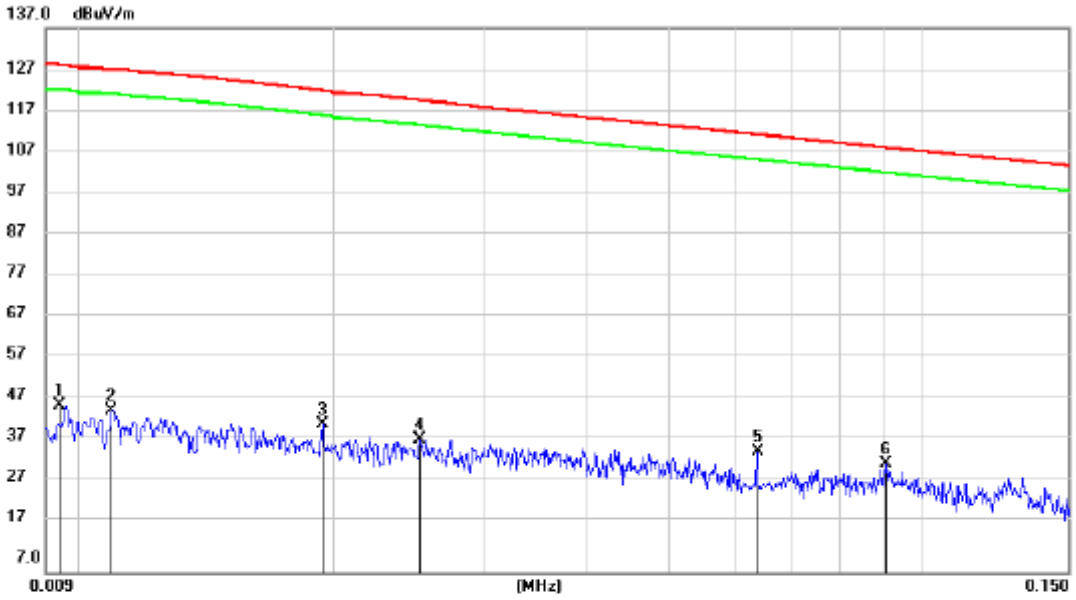


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.1524	21.78	20.42	42.20	103.9	-61.75	QP			
2		0.2048	19.82	20.36	40.18	101.4	-61.23	QP			
3		0.4637	16.89	20.25	37.14	94.31	-57.17	QP			
4	*	1.1109	14.51	20.41	34.92	66.70	-31.78	QP			
5		4.8997	11.50	20.84	32.34	69.54	-37.20	QP			
6		16.4856	9.32	20.96	30.28	69.54	-39.26	QP			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

SPURIOUS EMISSIONS (LOW CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)

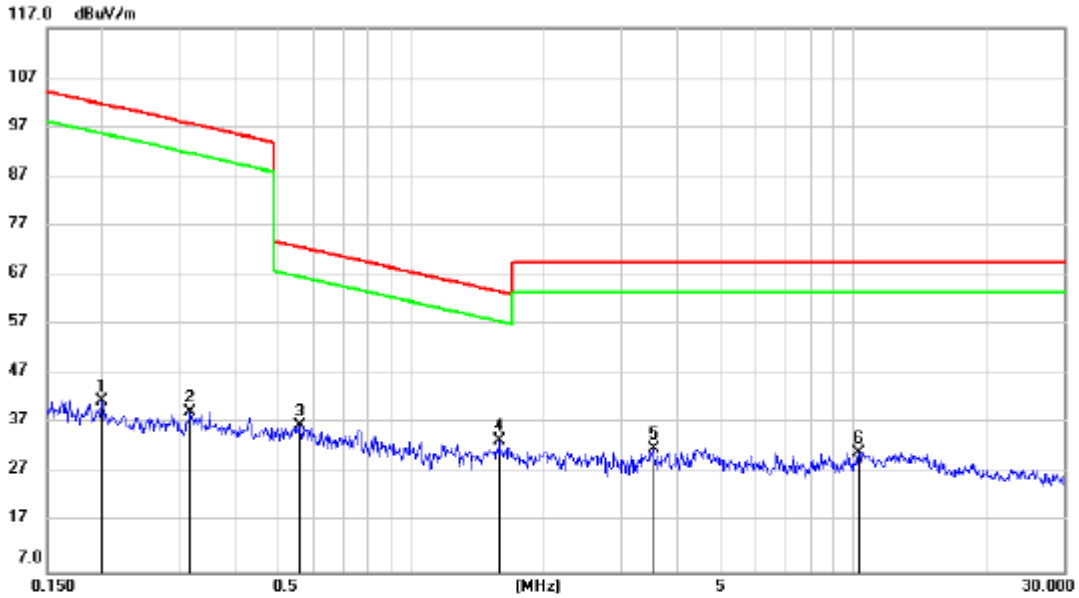
9KHz~ 150KHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.0094	26.55	20.26	46.81	128.0	-81.25	QP			
2		0.0108	25.39	20.22	45.61	127.1	-81.51	QP			
3		0.0193	22.11	20.30	42.41	122.0	-79.59	QP			
4		0.0252	18.44	20.31	38.75	119.7	-81.00	QP			
5		0.0637	15.53	20.31	35.84	111.5	-75.70	QP			
6	*	0.0908	12.49	20.26	32.75	108.4	-75.70	QP			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

150KHz ~ 30M



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.1995	21.27	20.37	41.64	101.6	-59.96	QP			
2		0.3165	18.99	20.30	39.29	97.65	-58.36	QP			
3		0.5581	16.22	20.26	36.48	72.71	-36.23	QP			
4	*	1.5766	12.91	20.58	33.49	63.65	-30.16	QP			
5		3.5278	10.89	20.98	31.87	69.54	-37.67	QP			
6		10.2873	10.13	21.05	31.18	69.54	-38.36	QP			

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

Note: All transmission modes and channels had been tested, but only the worst data recorded in the report.

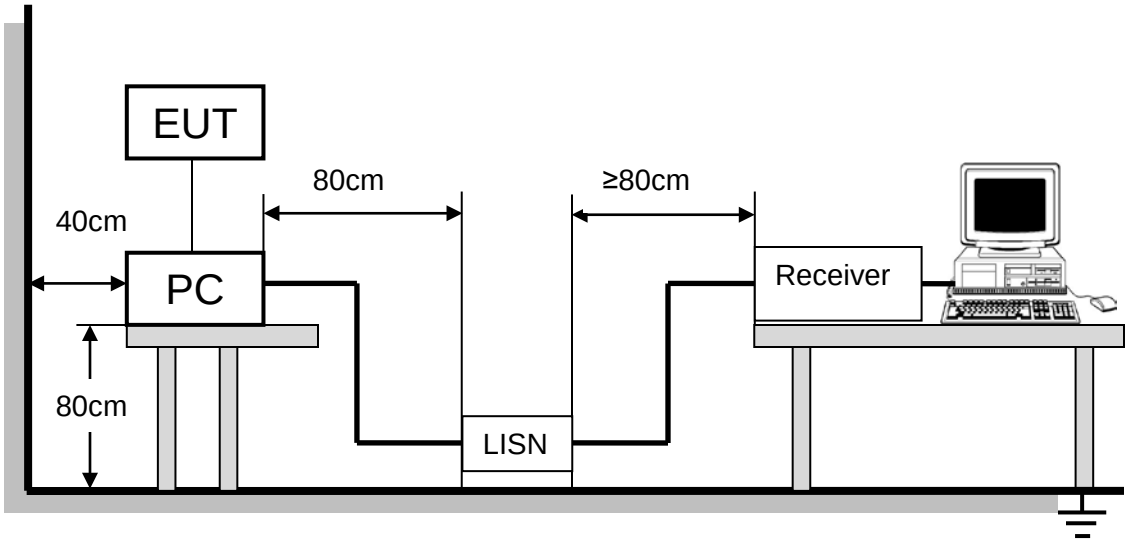
9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to FCC §15.207 (a) and RSS-Gen Clause 8.8.

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

TEST SETUP AND PROCEDURE



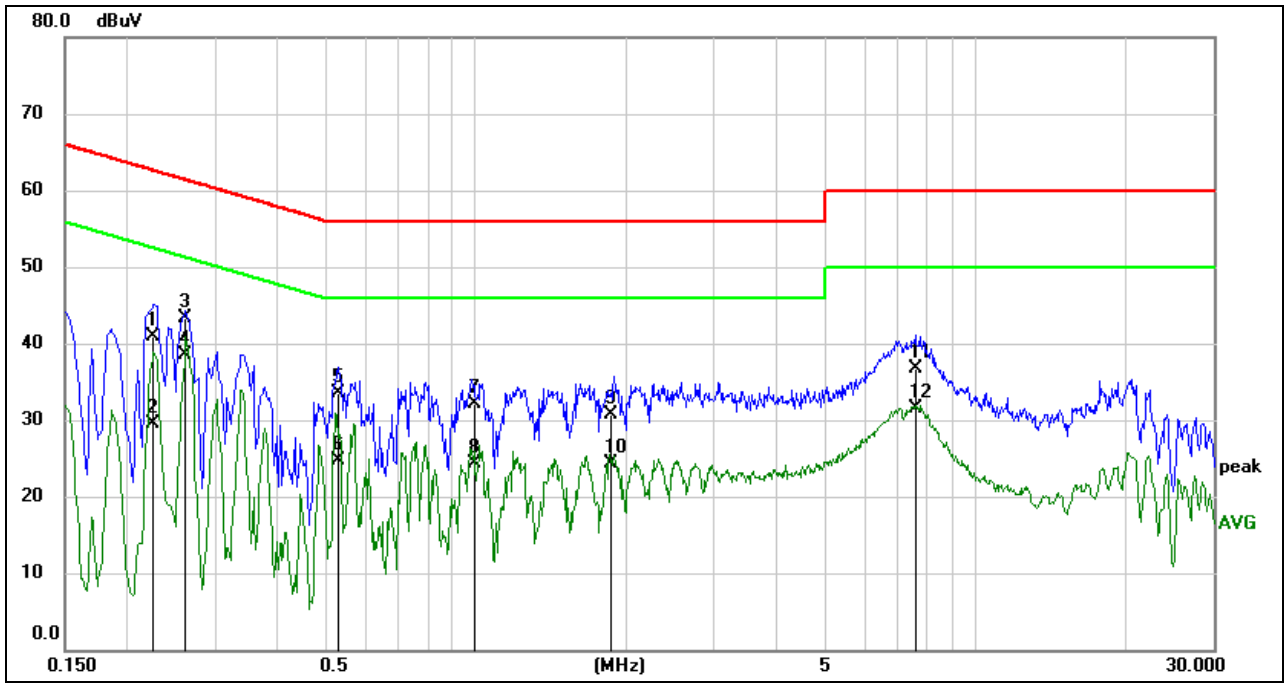
The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10 -2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST RESULTS

9.1.1. 802.11b MODE

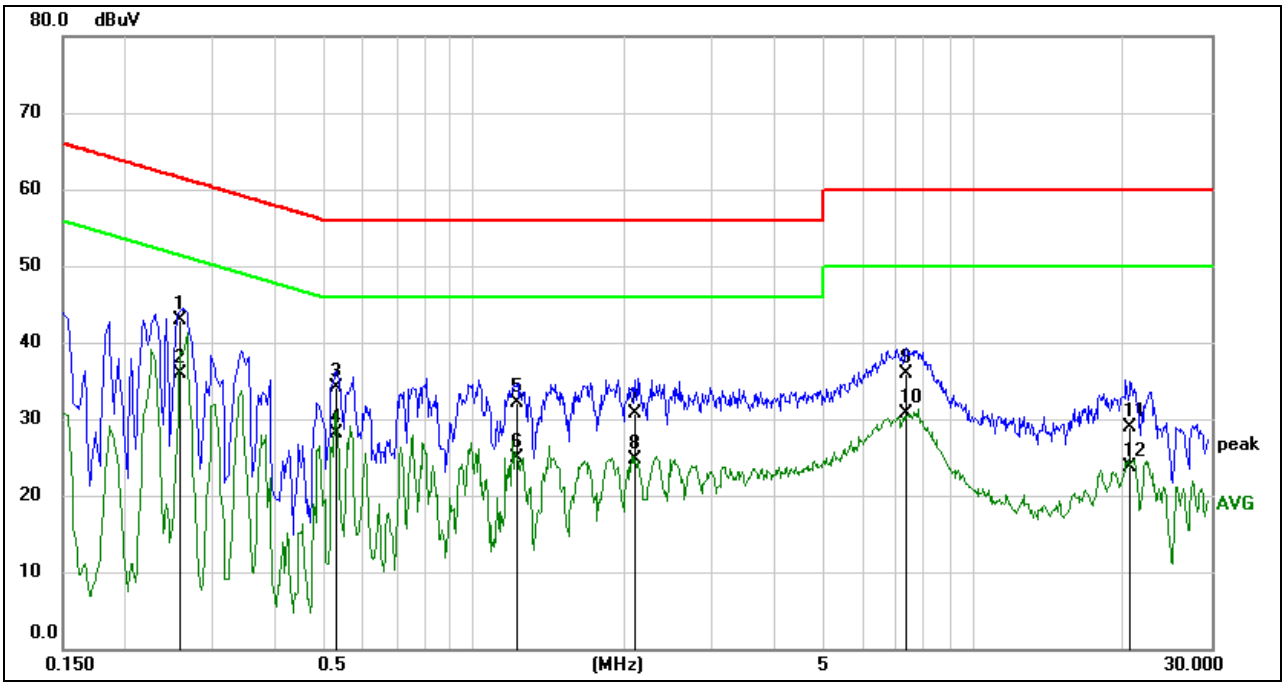
LINE N RESULTS (LOW CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2261	31.33	9.63	40.96	62.59	-21.63	QP
2	0.2261	19.79	9.63	29.42	52.59	-23.17	AVG
3	0.2597	33.63	9.63	43.26	61.44	-18.18	QP
4	0.2597	28.83	9.63	38.46	51.44	-12.98	AVG
5	0.5326	23.95	9.63	33.58	56.00	-22.42	QP
6	0.5326	15.12	9.63	24.75	46.00	-21.25	AVG
7	0.9895	22.42	9.64	32.06	56.00	-23.94	QP
8	0.9895	14.62	9.64	24.26	46.00	-21.74	AVG
9	1.8643	20.99	9.66	30.65	56.00	-25.35	QP
10	1.8643	14.62	9.66	24.28	46.00	-21.72	AVG
11	7.6230	26.85	9.84	36.69	60.00	-23.31	QP
12	7.6230	21.58	9.84	31.42	50.00	-18.58	AVG

Note: 1. Result = Reading +Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

LINE L RESULTS (LOW CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2577	33.33	9.63	42.96	61.51	-18.55	QP
2	0.2577	26.24	9.63	35.87	51.51	-15.64	AVG
3	0.5326	24.53	9.63	34.16	56.00	-21.84	QP
4	0.5326	18.48	9.63	28.11	46.00	-17.89	AVG
5	1.2129	22.45	9.64	32.09	56.00	-23.91	QP
6	1.2129	15.19	9.64	24.83	46.00	-21.17	AVG
7	2.0905	21.05	9.65	30.70	56.00	-25.30	QP
8	2.0905	15.03	9.65	24.68	46.00	-21.32	AVG
9	7.3838	26.06	9.81	35.87	60.00	-24.13	QP
10	7.3838	20.87	9.81	30.68	50.00	-19.32	AVG
11	20.5254	19.02	9.90	28.92	60.00	-31.08	QP
12	20.5254	13.80	9.90	23.70	50.00	-26.30	AVG

Note: 1. Result = Reading +Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

Note: All transmission modes and channels had been tested, but only the worst data recorded in the report.

10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ANTENNA CONNECTOR

EUT has an external antenna with antenna connector, it will be installed in a specific environment and users cannot change the antenna.

ANTENNA GAIN

The antenna gain of EUT is greater than 6 dBi.

END OF REPORT