

8.5 RADIATED SPURIOUS EMISSION

8.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 DTS 01 Meas. Guidance v03r02

8.5.2 Conformance Limit

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

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

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

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	2400/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Remark:1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

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

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

for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.



8.5.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

8.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings: For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 1 MHzVBW ≥ RBW for peak measurement VBW = 10Hz for Average measurement Sweep = auto Detector function = peak Trace = max hold For Below 1GHz: The EUT was placed on a turn table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Span = wide enough to fully capture the emission being measured RBW = 100 kHzVBW > RBW Sweep = auto Detector function = peak Trace = max hold Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the

measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data. Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.5.5 Test Results

Spurious Emission below 30MHz (9KHz to 30MHz) Test mode: TX Mode

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



Spurious Emission Below 1GHz (30MHz to GHz)



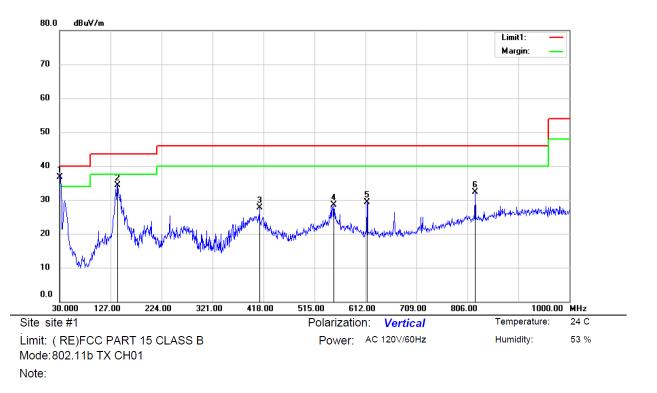
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		140.5800	43.15	-17.80	25.35	43.50	-18.15	QP			
2		272.5000	43.50	-12.65	30.85	46.00	-15.15	QP			
3		375.3200	40.13	-10.17	29.96	46.00	-16.04	QP			
4		615.8800	34.03	-6.83	27.20	46.00	-18.80	QP			
5		667.2900	36.80	-6.30	30.50	46.00	-15.50	QP			
6	*	820.5500	38.34	-2.41	35.93	46.00	-10.07	QP			

All modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11b recorded was report as below:

Operator: KK

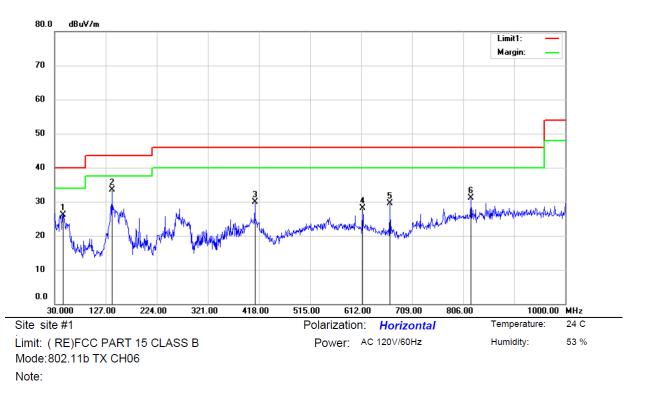
Ver.1.0





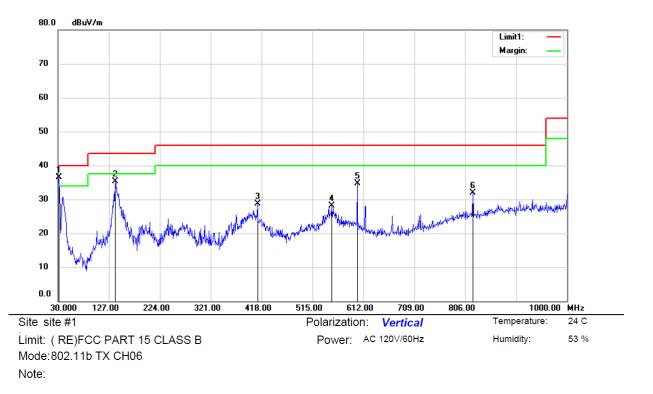
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1	*	30.9700	52.97	-16.27	36.70	40.00	-3.30	QP			
2		140.5800	52.08	-17.80	34.28	43.50	-9.22	QP			
3		410.2400	36.89	-9.16	27.73	46.00	-18.27	QP			
4		551.8600	35.95	-7.38	28.57	46.00	-17.43	QP			
5		614.9100	36.09	-6.85	29.24	46.00	-16.76	QP			
6		820.5500	34.80	-2.41	32.39	46.00	-13.61	QP			





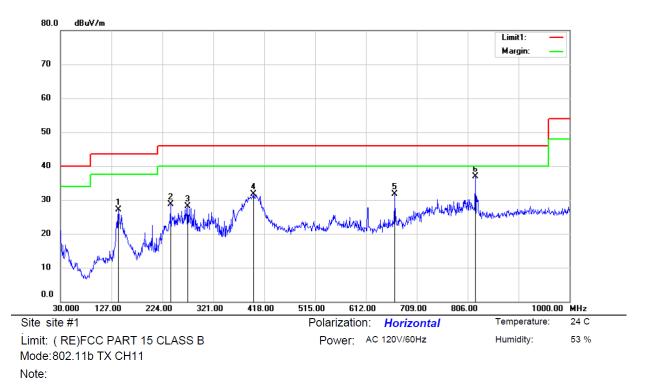
No.	Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
-		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		45.5200	39.29	-13.27	26.02	40.00	-13.98	QP			
2	*	138.6400	51.21	-17.70	33.51	43.50	-9.99	QP			
3		410.2400	39.08	-9.16	29.92	46.00	-16.08	QP			
4		614.9100	34.92	-6.85	28.07	46.00	-17.93	QP			
5		667.2900	35.71	-6.30	29.41	46.00	-16.59	QP			
6		820.5500	33.43	-2.41	31.02	46.00	-14.98	QP			





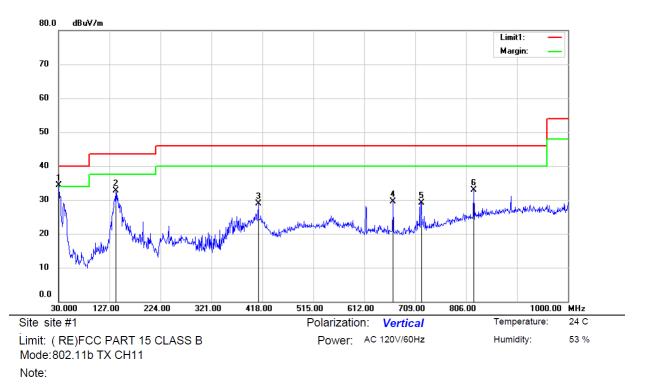
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	31.9400	52.58	-16.08	36.50	40.00	-3.50	QP			
2		138.6400	53.01	-17.70	35.31	43.50	-8.19	QP			
3		410.2400	37.87	-9.16	28.71	46.00	-17.29	QP			
4		551.8600	35.48	-7.38	28.10	46.00	-17.90	QP			
5		600.3600	41.62	-6.99	34.63	46.00	-11.37	QP			
6		820.5500	34.40	-2.41	31.99	46.00	-14.01	QP			





No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1		140.5800	44.86	-17.80	27.06	43.50	-16.44	QP			
2		239.5200	42.65	-13.89	28.76	46.00	-17.24	QP			
3		272.5000	40.76	-12.65	28.11	46.00	-17.89	QP			
4		397.6300	40.71	-9.00	31.71	46.00	-14.29	QP			
5		667.2900	38.07	-6.30	31.77	46.00	-14.23	QP			
6	*	820.5500	39.26	-2.41	36.85	46.00	-9.15	QP			





No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	30.0000	50.85	-16.46	34.39	40.00	-5.61	QP			
2		138.6400	50.35	-17.70	32.65	43.50	-10.85	QP			
3		410.2400	38.02	-9.16	28.86	46.00	-17.14	QP			
4		667.2900	35.89	-6.30	29.59	46.00	-16.41	QP			
5		720.6400	34.39	-5.33	29.06	46.00	-16.94	QP			
6		820.5500	35.25	-2.41	32.84	46.00	-13.16	QP			



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

All modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11b recorded was report as below:

		j/n nave been '	tested, and the v			rded was rep	port as bel
Temperature			Test Date:		iy 17, 1015		
Humidity:	53 %		Test By:		NG KONG		
Test mode:	802.	11b	Frequency	: Ch	annel 1: 241	2MHz	
Freq.	Ant.Pol.		_evel(dBuV/m)		(dBuV/m)		r(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV
14447.00	V	52.61	36.90	74.00	54.00	-21.39	-17.10
16164.00	V	52.77	37.70	74.00	54.00	-21.23	-16.30
17065.00	V	53.08	38.00	74.00	54.00	-20.92	-16.00
14209.00	Н	53.21	38.20	74.00	54.00	-20.79	-15.80
14940.00	Н	52.90	37.60	74.00	54.00	-21.10	-16.40
15280.00	Н	52.75	37.50	74.00	54.00	-21.25	-16.50
Test mode:	802.	11b	Frequency	: Ch	annel 6: 243	37MHz	
Freq.	Ant.Pol.	Emission I	_evel(dBuV/m)	Limit 3m	(dBuV/m)	Ove	r(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV
15263.00	V	53.49	38.20	74.00	54.00	-20.51	-15.80
16521.00	V	52.85	38.10	74.00	54.00	-21.15	-15.90
16929.00	V	52.29	37.60	74.00	54.00	-21.71	-16.40
14940.00	Н	52.97	36.70	74.00	54.00	-21.03	-17.30
16351.00	Н	52.06	36.70	74.00	54.00	-21.94	-17.30
16606.00	Н	52.20	37.30	74.00	54.00	-21.80	-16.70
Test mode:	802.	11b	Frequency	: Ch	annel 11: 24	62MHz	
Freq.	Ant.Pol.	Emission I	_evel(dBuV/m)	Limit 3m	(dBuV/m)	Ove	r(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV
16419.00	V	52.20	37.20	74.00	54.00	-21.80	-16.80
16776.00	V	52.30	37.20	74.00	54.00	-21.70	-16.80
17286.00	V	52.12	36.40	74.00	54.00	-21.88	-17.60
14294.00	Н	52.45	36.90	74.00	54.00	-21.55	-17.10
16776.00	Н	52.14	37.70	74.00	54.00	-21.86	-16.30

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

37.20

52.78

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

74.00

54.00

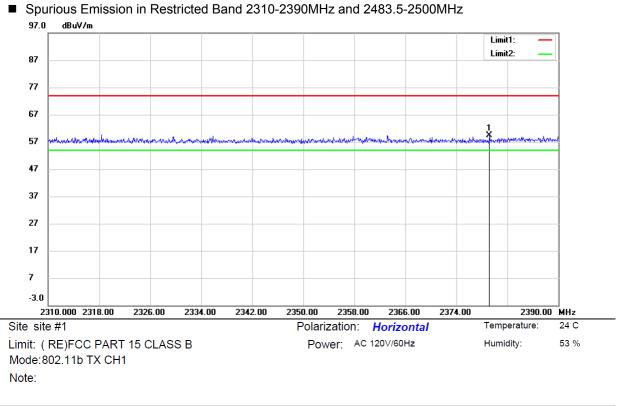
-21.22

-16.80

Н

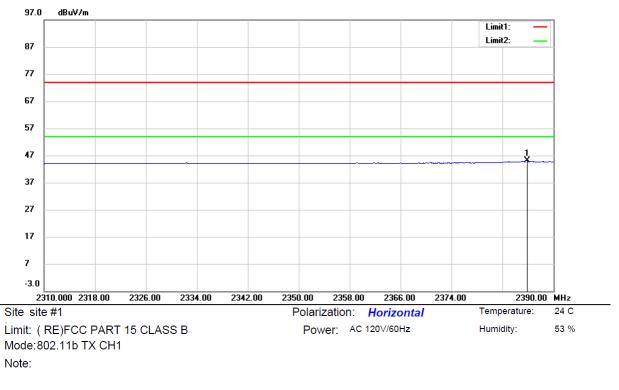
17813.00





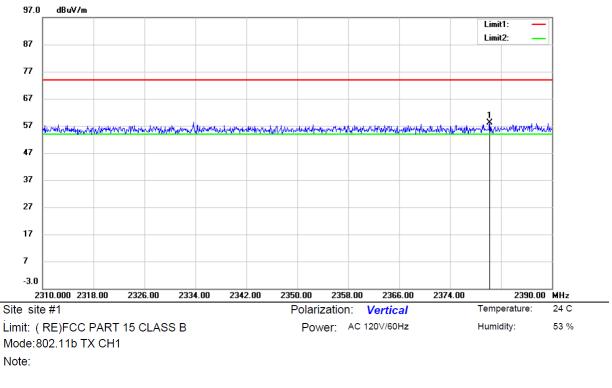
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment		Over		Antenna Height		
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2379.200	28.20	31.06	59.26	74.00	-14.74	peak			





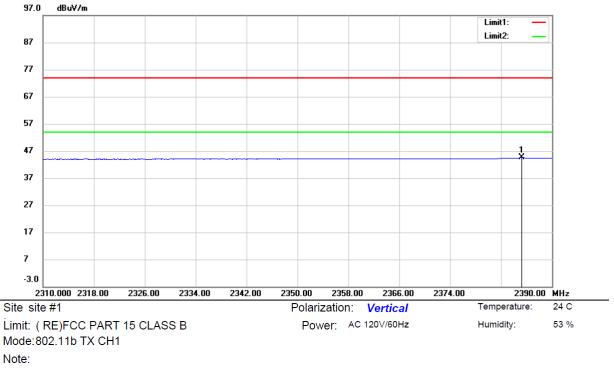
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2385.840	13.98	31.09	45.07	54.00	-8.93	AVG			





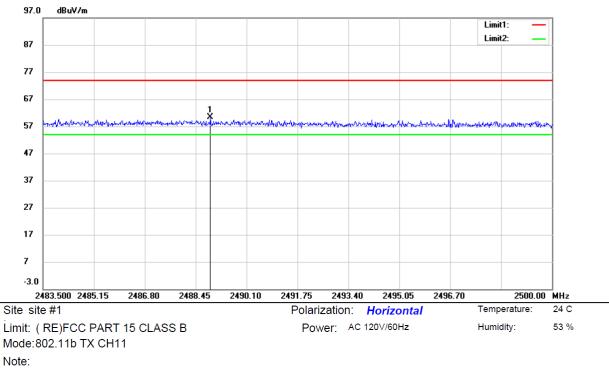
No. Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1 *	2380.240	27.08	31.06	58.14	74.00	-15.86	peak			





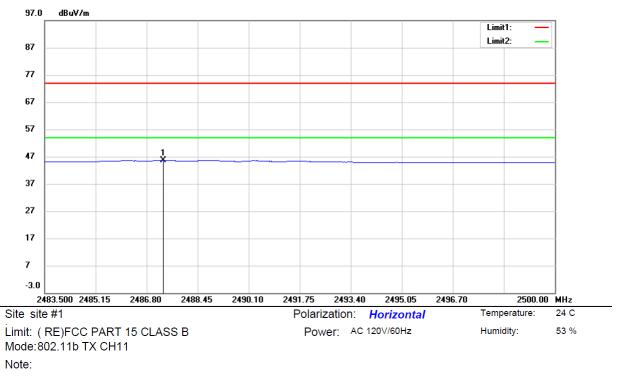
No. Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2385.200	13.47	31.09	44.56	54.00	-9.44	AVG			





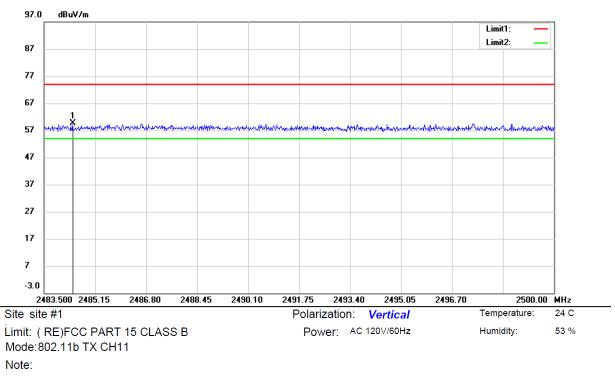
No. Mk.	Freq.	Reading Level		Measure- ment		Over		Antenna Height		
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2488.928	28.74	31.55	60.29	74.00	-13.71	peak			





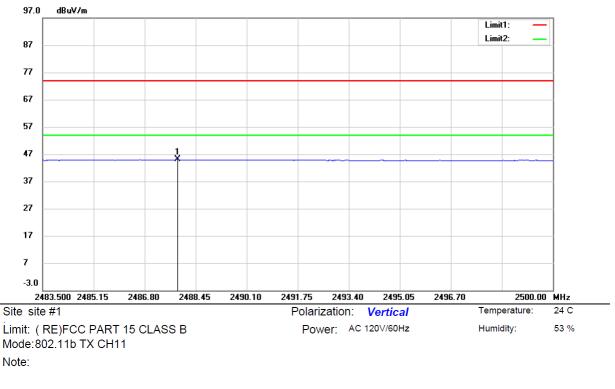
No. Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1 *	2487.328	14.15	31.55	45.70	54.00	-8.30	AVG			





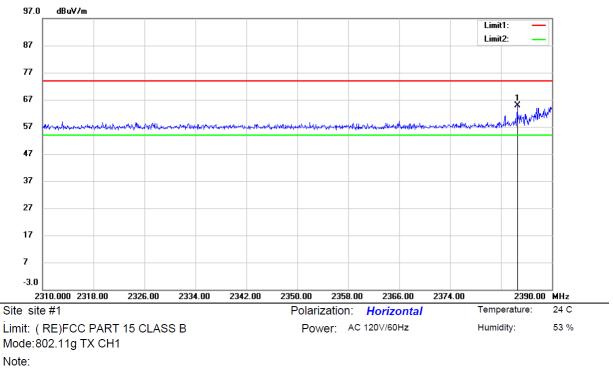
No. Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2484.424	28.06	31.53	59.59	74.00	-14.41	peak			





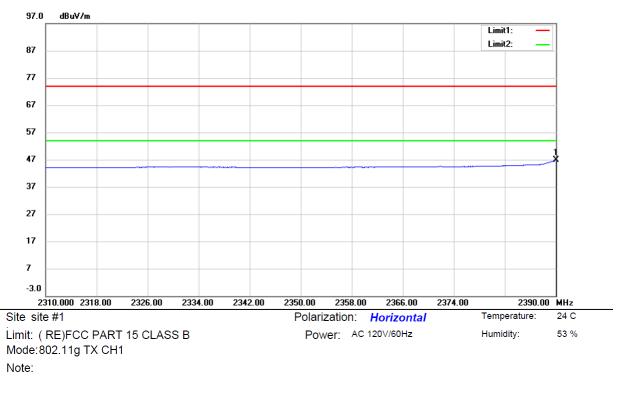
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment		Over		Antenna Height		
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2487.856	13.49	31.55	45.04	54.00	-8.96	AVG			





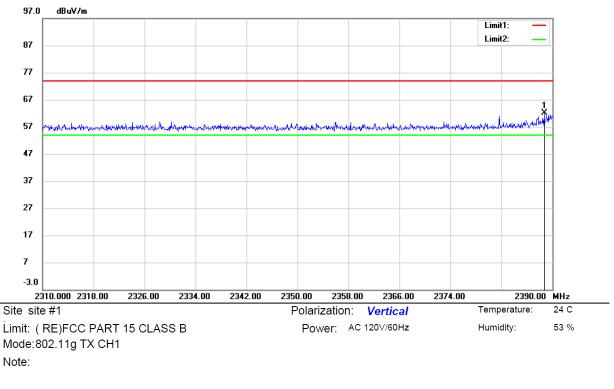
No. Mk	. Freq.	Reading Level		Measure- ment		Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2384.560	33.85	31.09	64.94	74.00	-9.06	peak			





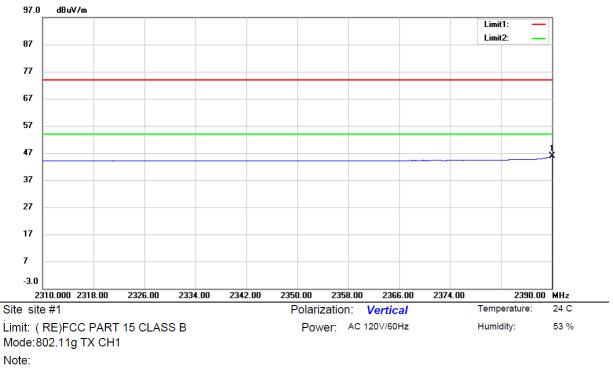
No. N	Иk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1 *	k	2390.000	15.84	31.11	46.95	54.00	-7.05	AVG			





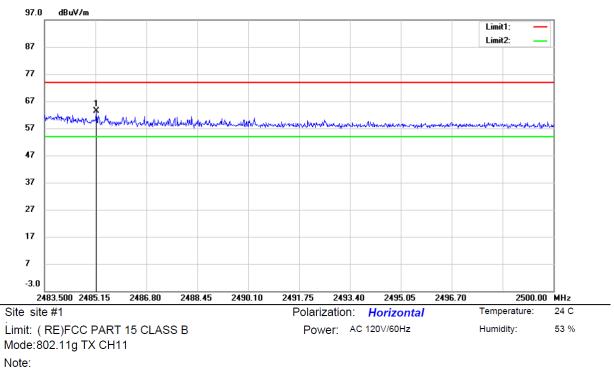
No. Mk	. Freq.	Reading Level		Measure- ment		Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2388.720	31.06	31.10	62.16	74.00	-11.84	peak			





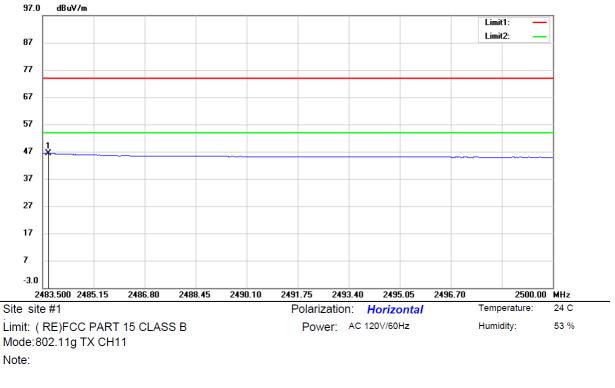
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2390.000	14.68	31.11	45.79	54.00	-8.21	AVG			





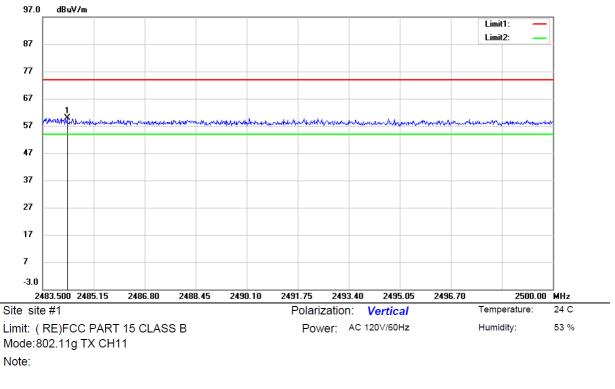
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			Table Degree	
	MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1 *	2485.183	31.81	31.53	63.34	74.00	-10.66	peak			





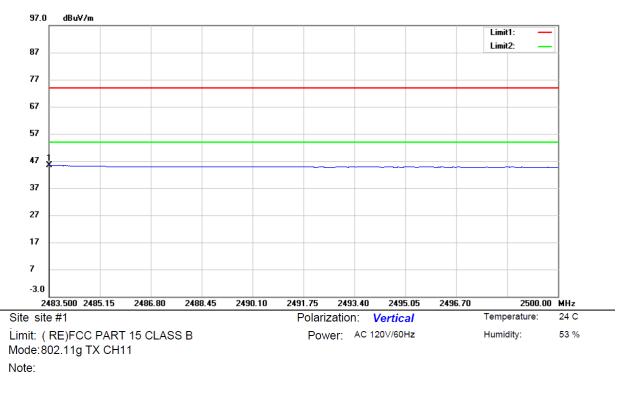
No. Mk	. Freq.	Reading Level		Measure- ment		Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2483.682	14.91	31.52	46.43	54.00	-7.57	AVG			





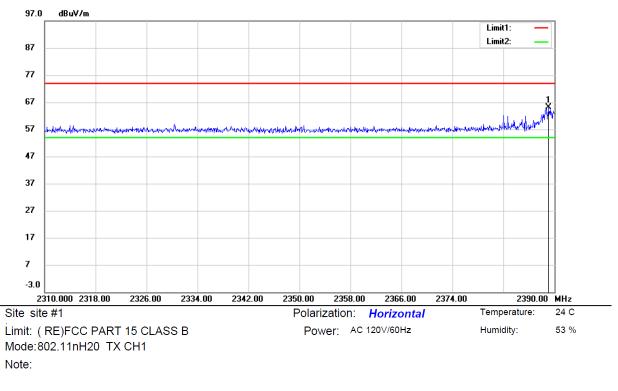
No. Mk	. Freq.	Reading Level		Measure- ment		Over		Antenna Height		
	MHz	dBuV	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2484.292	28.34	31.53	59.87	74.00	-14.13	peak			





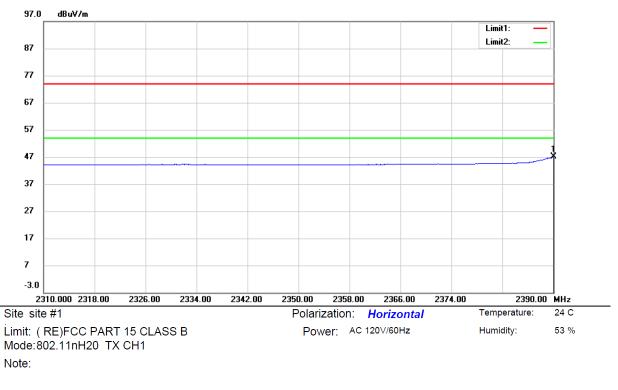
No. Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2483.500	13.87	31.52	45.39	54.00	-8.61	AVG			





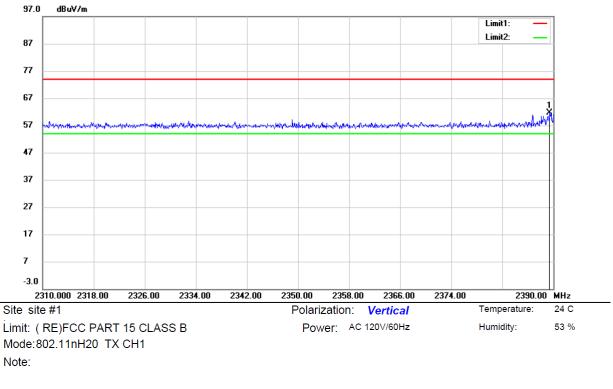
No. Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1 *	2389.120	34.01	31.10	65.11	74.00	-8.89	peak			





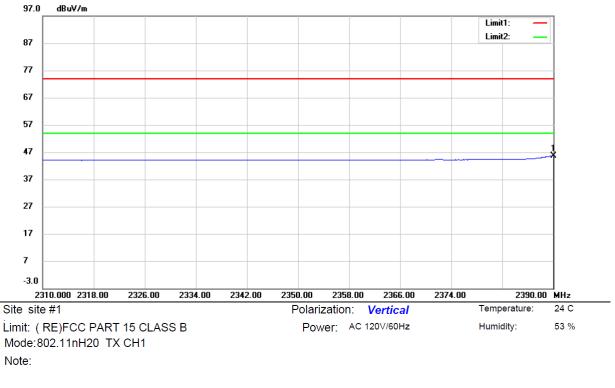
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1 *	2390.000	16.07	31.11	47.18	54.00	-6.82	AVG			





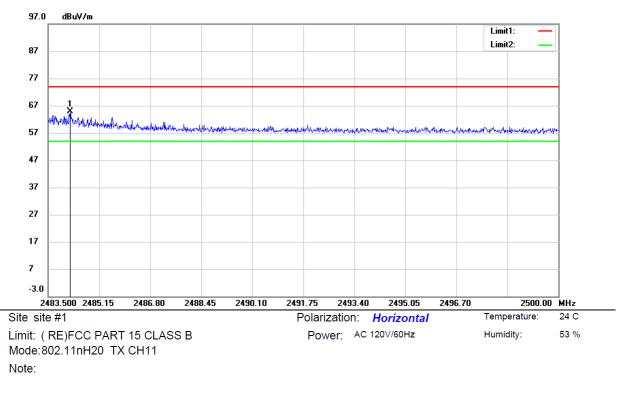
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment		Over		Antenna Height		
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2389.440	30.48	31.10	61.58	74.00	-12.42	peak			





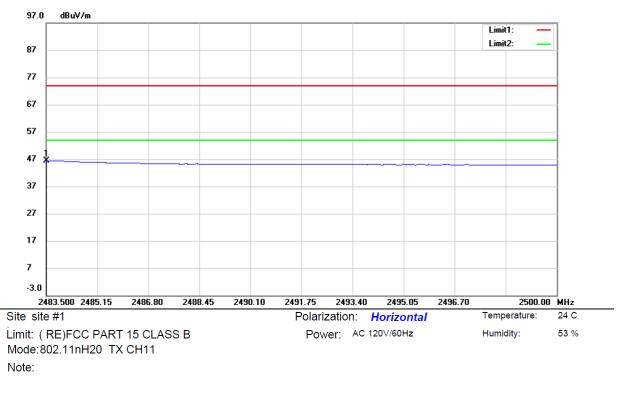
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2390.000	14.59	31.11	45.70	54.00	-8.30	AVG			





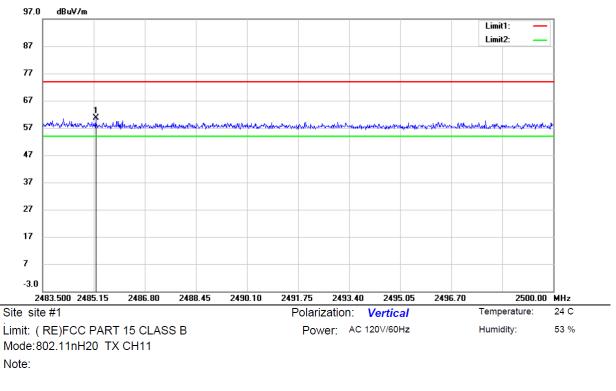
No. Mł	k. Freq.	Reading Level		Measure- ment		Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2484.209	33.36	31.53	64.89	74.00	-9.11	peak			





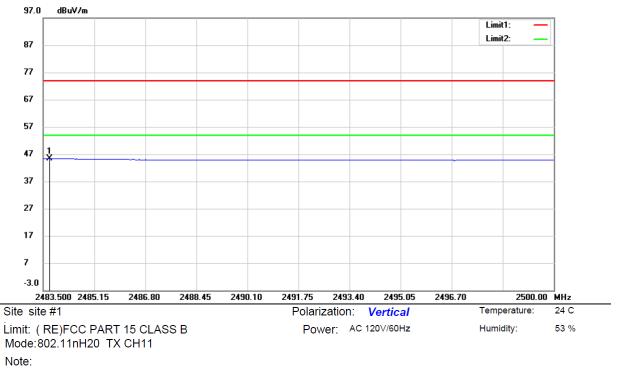
No. Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2483.500	14.90	31.52	46.42	54.00	-7.58	AVG			



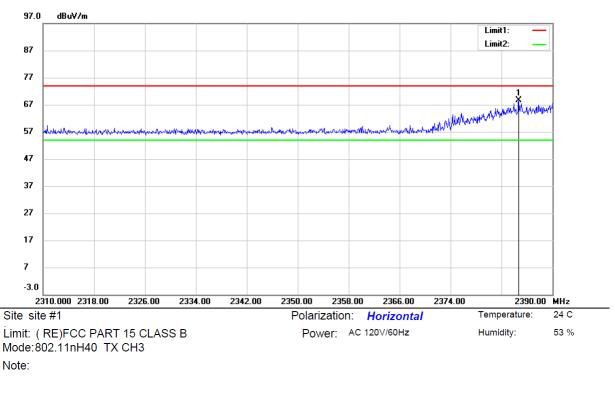


No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2485.216	29.05	31.53	60.58	74.00	-13.42	peak			





No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
	MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1 *	2483.682	13.96	31.52	45.48	54.00	-8.52	AVG			



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment		Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 * 2	2384.720	37.59	31.09	68.68	74.00	-5.32	peak			

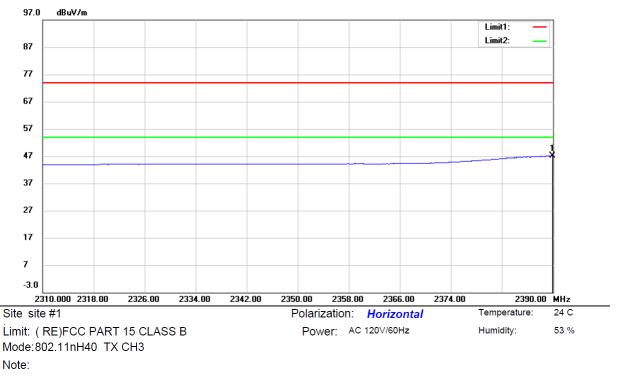
Operator: KK

TEK

Access to the World

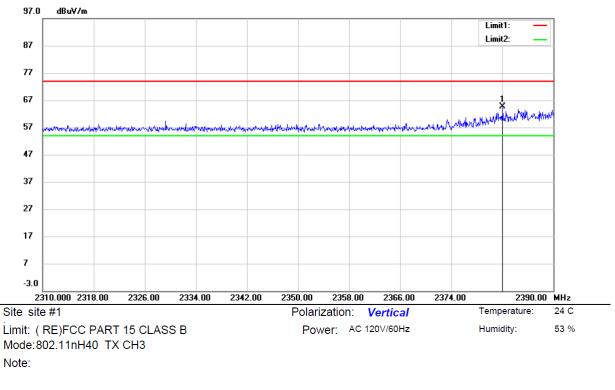
EM





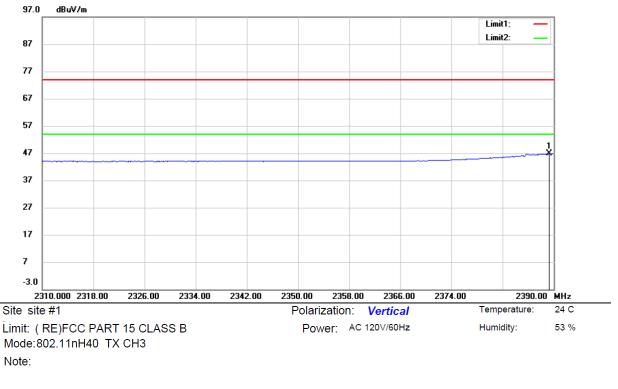
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1 *	2389.920	16.09	31.11	47.20	54.00	-6.80	AVG			





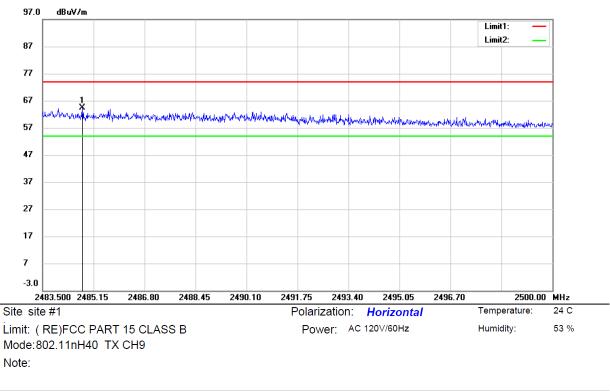
No. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment		Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2382.080	33.52	31.08	64.60	74.00	-9.40	peak			





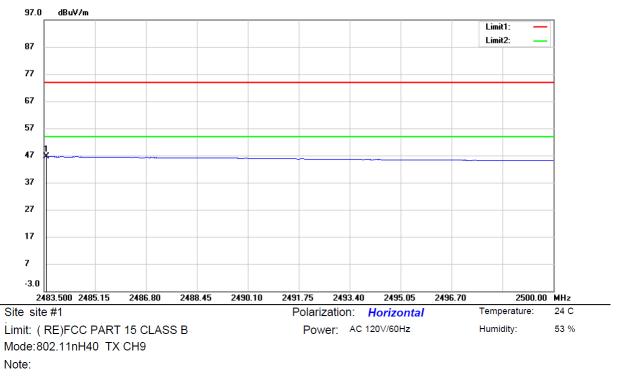
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1 *	2389.280	15.73	31.10	46.83	54.00	-7.17	AVG			





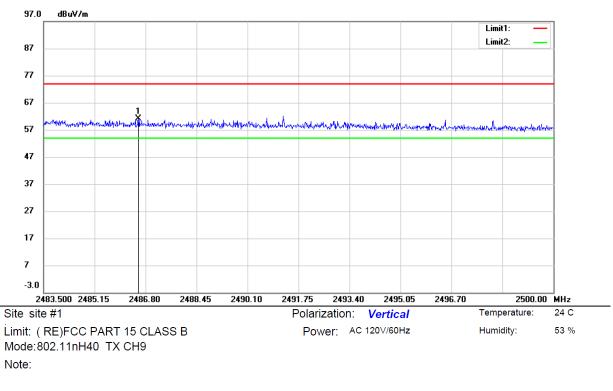
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBu∀/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2484.787	32.83	31.53	64.36	74.00	-9.64	peak			





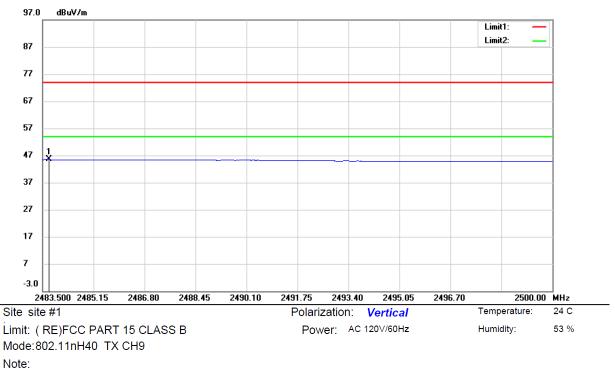
No. Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2483.566	15.15	31.52	46.67	54.00	-7.33	AVG			





No. Mł	k. Freq.	Reading Level		Measure- ment		Over		Antenna Height		
	MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1 *	2486.569	29.67	31.54	61.21	74.00	-12.79	peak			





No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBu∨	dB	dBu∀/m	dBu∀/m	dB	Detector	cm	degree	Comment
1 * 2	2483.715	14.03	31.52	45.55	54.00	-8.45	AVG			



8.6 CONDUCTED EMISSION TEST

8.6.1 Applicable Standard

According to FCC Part 15.207(a)

8.6.2 Conformance Limit

	Conducted Emission Limit	
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50
Note: 1. The lower limit shall apply at t 2. The limit decreases in line wi	the transition frequencies th the logarithm of the frequency in the	e range of 0.15 to 0.50MHz.

8.6.3 Test Configuration

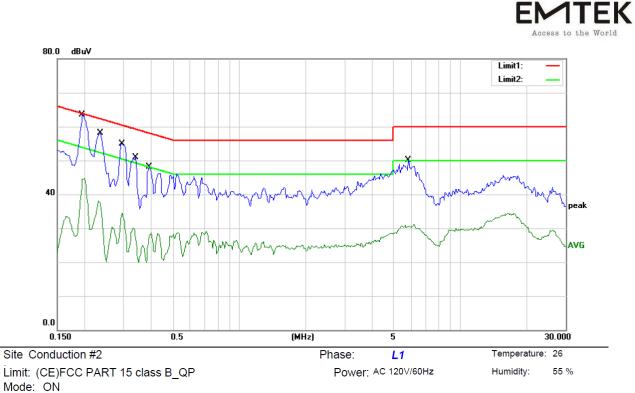
Test according to clause 7.3 conducted emission test setup

8.6.4 Test Procedure

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

8.6.5 Test Results

PASS.



N	of	to	•
1 1	U	œ	•

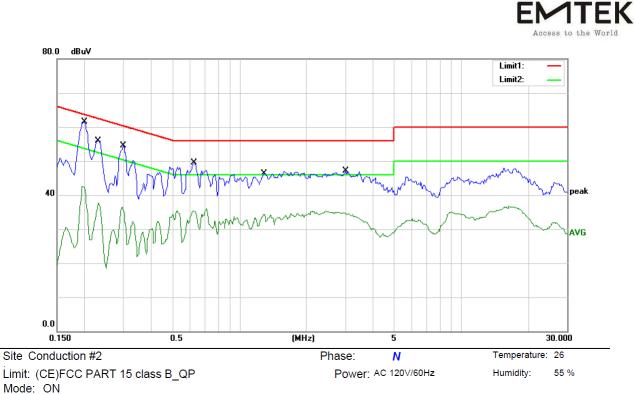
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.1950	57.10	0.00	57.10	63.82	-6.72	QP	
2	0.1950	44.79	0.00	44.79	53.82	-9.03	AVG	
3	0.2350	54.30	0.00	54.30	62.27	-7.97	QP	
4	0.2350	38.02	0.00	38.02	52.27	-14.25	AVG	
5 *	0.2950	54.88	0.00	54.88	60.38	-5.50	QP	
6	0.2950	34.55	0.00	34.55	50.38	-15.83	AVG	
7	0.3400	50.95	0.00	50.95	59.20	-8.25	QP	
8	0.3400	30.04	0.00	30.04	49.20	-19.16	AVG	
9	0.3900	48.14	0.00	48.14	58.06	-9.92	QP	
10	0.3900	28.68	0.00	28.68	48.06	-19.38	AVG	
11	5.8300	50.12	0.00	50.12	60.00	-9.88	QP	
12	5.8300	31.09	0.00	31.09	50.00	-18.91	AVG	

*:Maximum data x:Over limit

imit !:over margin

Comment: Factor build in receiver.

Operator: CSL



```
Note:
```

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∨	dBuV	dB	Detector	Comment
1 *	0.2000	57.90	0.00	57.90	63.61	-5.71	QP	
2	0.2000	42.46	0.00	42.46	53.61	-11.15	AVG	
3	0.2300	55.93	0.00	55.93	62.45	-6.52	QP	
4	0.2300	37.78	0.00	37.78	52.45	-14.67	AVG	
5	0.3000	54.41	0.00	54.41	60.24	-5.83	QP	
6	0.3000	36.49	0.00	36.49	50.24	-13.75	AVG	
7	0.6250	49.45	0.00	49.45	56.00	-6.55	QP	
8	0.6250	35.31	0.00	35.31	46.00	-10.69	AVG	
9	1.2950	46.38	0.00	46.38	56.00	-9.62	QP	
10	1.2950	34.33	0.00	34.33	46.00	-11.67	AVG	
11	3.0250	47.12	0.00	47.12	56.00	-8.88	QP	
12	3.0250	34.82	0.00	34.82	46.00	-11.18	AVG	
-								

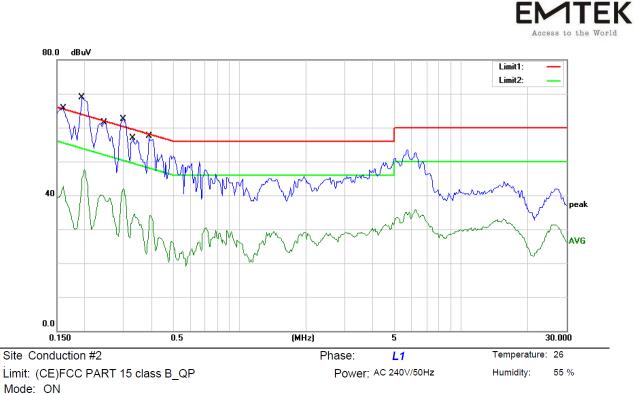
*:Maximum data

x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: CSL

EN



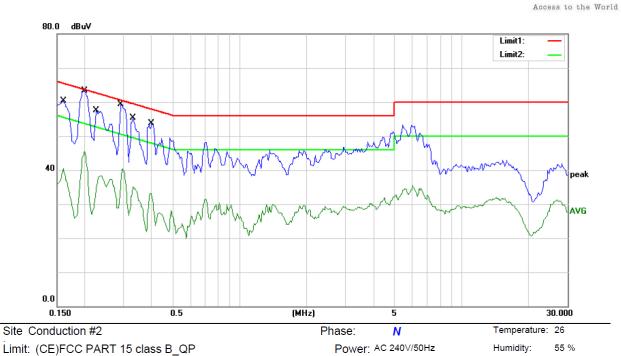
```
Note:
```

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.1600	53.80	0.00	53.80	65.46	-11.66	QP	
2	0.1600	42.73	0.00	42.73	55.46	-12.73	AVG	
3	0.1950	57.60	0.00	57.60	63.82	-6.22	QP	
4 *	0.1950	47.77	0.00	47.77	53.82	-6.05	AVG	
5	0.2450	48.90	0.00	48.90	61.92	-13.02	QP	
6	0.2450	40.18	0.00	40.18	51.92	-11.74	AVG	
7	0.3000	53.50	0.00	53.50	60.24	-6.74	QP	
8	0.3000	42.00	0.00	42.00	50.24	-8.24	AVG	
9	0.3300	45.90	0.00	45.90	59.45	-13.55	QP	
10	0.3300	34.59	0.00	34.59	49.45	-14.86	AVG	
11	0.3900	47.30	0.00	47.30	58.06	-10.76	QP	
12	0.3900	34.16	0.00	34.16	48.06	-13.90	AVG	

Comment: Factor build in receiver.

Operator: CSL

EM



Site Conduction #2
Limit: (CE)FCC PART 15 class B_C
Mode: ON
Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1 *	0.1600	60.35	0.00	60.35	65.46	-5.11	QP	
2	0.1600	40.43	0.00	40.43	55.46	-15.03	AVG	
3	0.2000	57.55	0.00	57.55	63.61	-6.06	QP	
4	0.2000	45.59	0.00	45.59	53.61	-8.02	AVG	
5	0.2255	57.40	0.00	57.40	<mark>62.61</mark>	-5.21	QP	
6	0.2255	38.34	0.00	38.34	52.61	-14.27	AVG	
7	0.2900	54.30	0.00	54.30	60.52	-6.22	QP	
8	0.2900	37.97	0.00	37.97	50.52	-12.55	AVG	
9	0.3300	53.30	0.00	53.30	59.45	-6.15	QP	
10	0.3300	35.10	0.00	35.10	49.45	-14.35	AVG	
11	0.4000	51.60	0.00	51.60	57.85	-6.25	QP	
12	0.4000	33.05	0.00	33.05	47.85	-14.80	AVG	

*:Maximum data x:Over limi

x:Over limit !:over margin

Comment: Factor build in receiver.

Operator: CSL

ΈK

EN



8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

For intentional device, according to IC RSS-Gen 8.3, testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.9 When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

8.7.2 Result

The EUT'S antenna is PIFA antenna, and the antenna can't be replaced by the user, which in accordance to section 15.203, please refer to the internal photos. The antenna's gain is 2.5dBi and meets the requirement.