

9.7 RADIATED SPURIOUS EMISSION

9.7.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and DA 00-705

9.7.2 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 Part 15.205, 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 Part 15.205, 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.

9.7.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

9.7.4 Test Procedure

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

For Above 1GHz:

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

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

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

VBW \geq 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 kHz

VBW \geq 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 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 $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

9.7.5 Test Results

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

Temperature: 24°C
Humidity: 53 %
Test mode: TX Mode

Test Date: September 24, 2015
Test By: KING KONG

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
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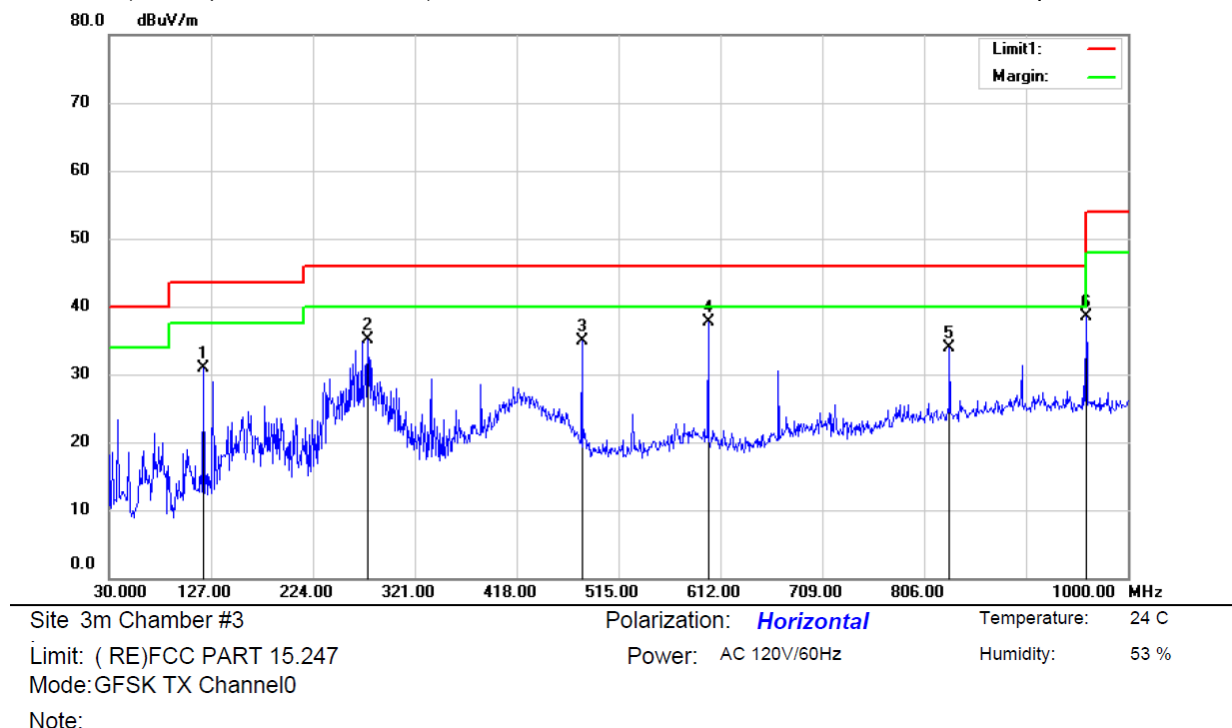
Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance}/\text{test distance})$ (dB);

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

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

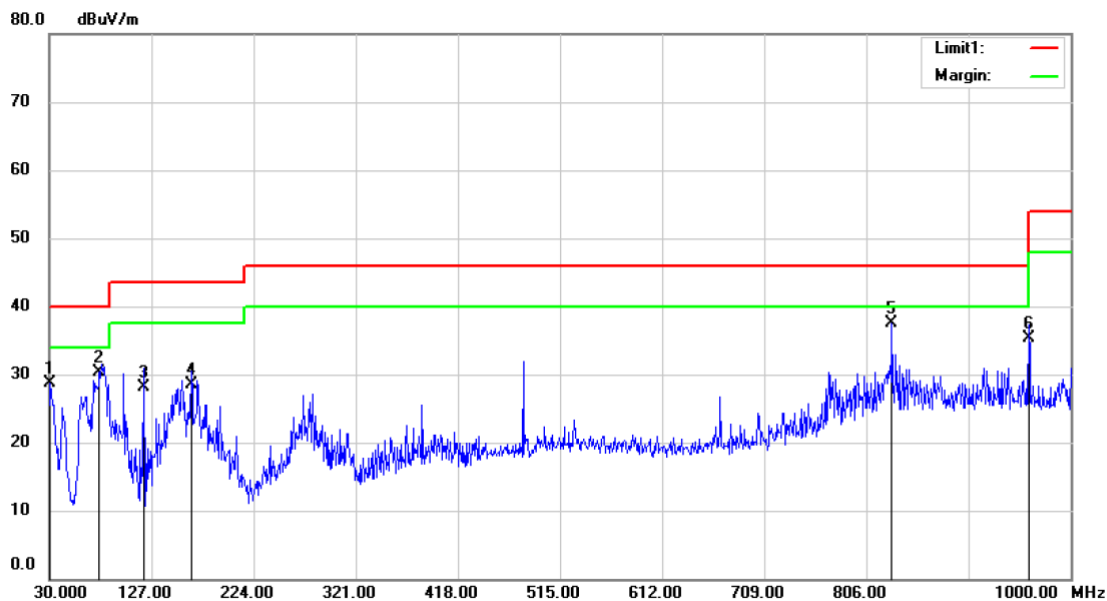
Bluetooth (GFSK, pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result was report as below:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		120.2100	47.33	-16.36	30.97	43.50	-12.53	QP		
2		276.3800	47.63	-12.61	35.02	46.00	-10.98	QP		
3		480.0800	44.40	-9.53	34.87	46.00	-11.13	QP		
4	*	600.3600	44.78	-6.99	37.79	46.00	-8.21	QP		
5		830.2500	36.07	-2.19	33.88	46.00	-12.12	QP		
6		960.2300	39.18	-0.72	38.46	54.00	-15.54	QP		

*:Maximum data x:Over limit !:over margin

Operator:



Site 3m Chamber #3

Polarization: **Vertical**

Temperature: 24 C

Limit: (RE)FCC PART 15.247

Power: AC 120V/60Hz

Humidity: 53 %

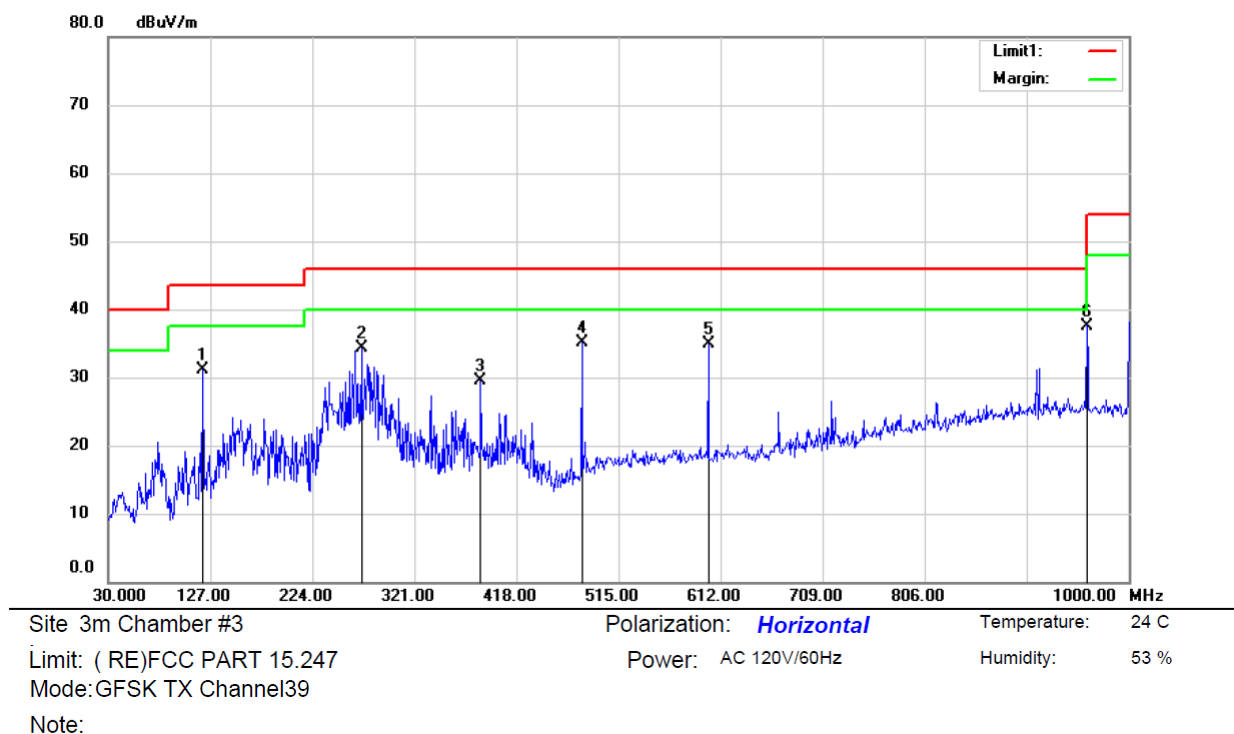
Mode:GFSK TX Channel0

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		30.9700	44.77	-16.13	28.64	40.00	-11.36	QP		
2		77.5300	49.69	-19.46	30.23	40.00	-9.77	QP		
3		120.2100	44.49	-16.36	28.13	43.50	-15.37	QP		
4		164.8300	47.53	-19.07	28.46	43.50	-15.04	QP		
5	*	830.2500	39.72	-2.19	37.53	46.00	-8.47	QP		
6		960.2300	35.95	-0.72	35.23	54.00	-18.77	QP		

*:Maximum data x:Over limit !:over margin

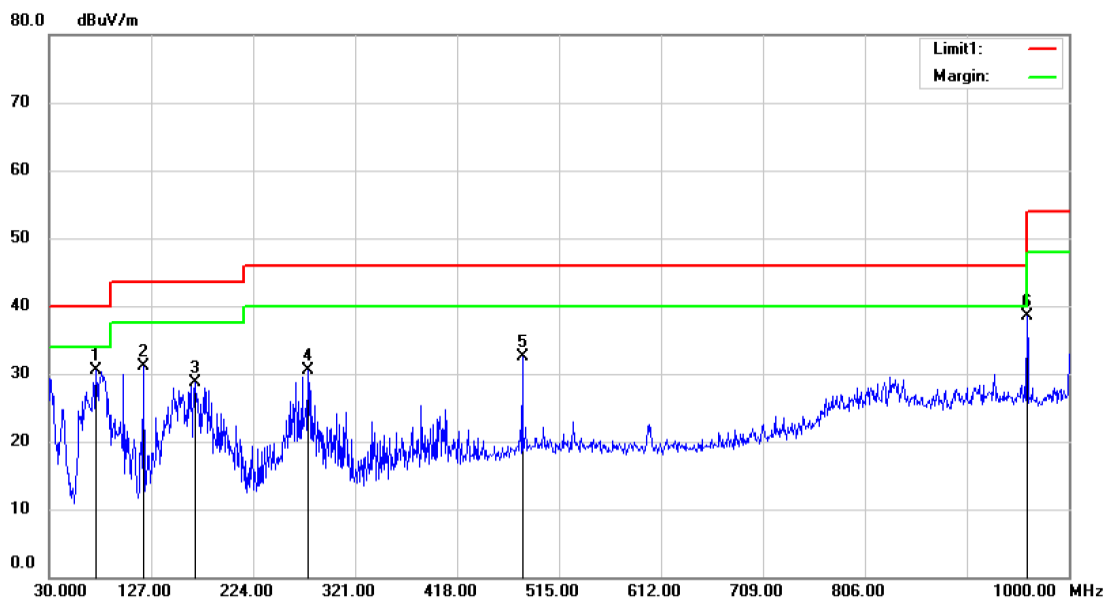
Operator:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		120.2100	47.43	-16.36	31.07	43.50	-12.43	QP		
2		270.5600	46.89	-12.68	34.21	46.00	-11.79	QP		
3		384.0500	39.33	-9.77	29.56	46.00	-16.44	QP		
4	*	480.0800	44.55	-9.53	35.02	46.00	-10.98	QP		
5		600.3600	41.82	-6.99	34.83	46.00	-11.17	QP		
6		960.2300	38.32	-0.72	37.60	54.00	-16.40	QP		

*:Maximum data x:Over limit !:over margin

Operator:



Site 3m Chamber #3

Polarization: *Vertical*

Temperature: 24 C

Limit: (RE)FCC PART 15.247

Power: AC 120V/60Hz

Humidity: 53 %

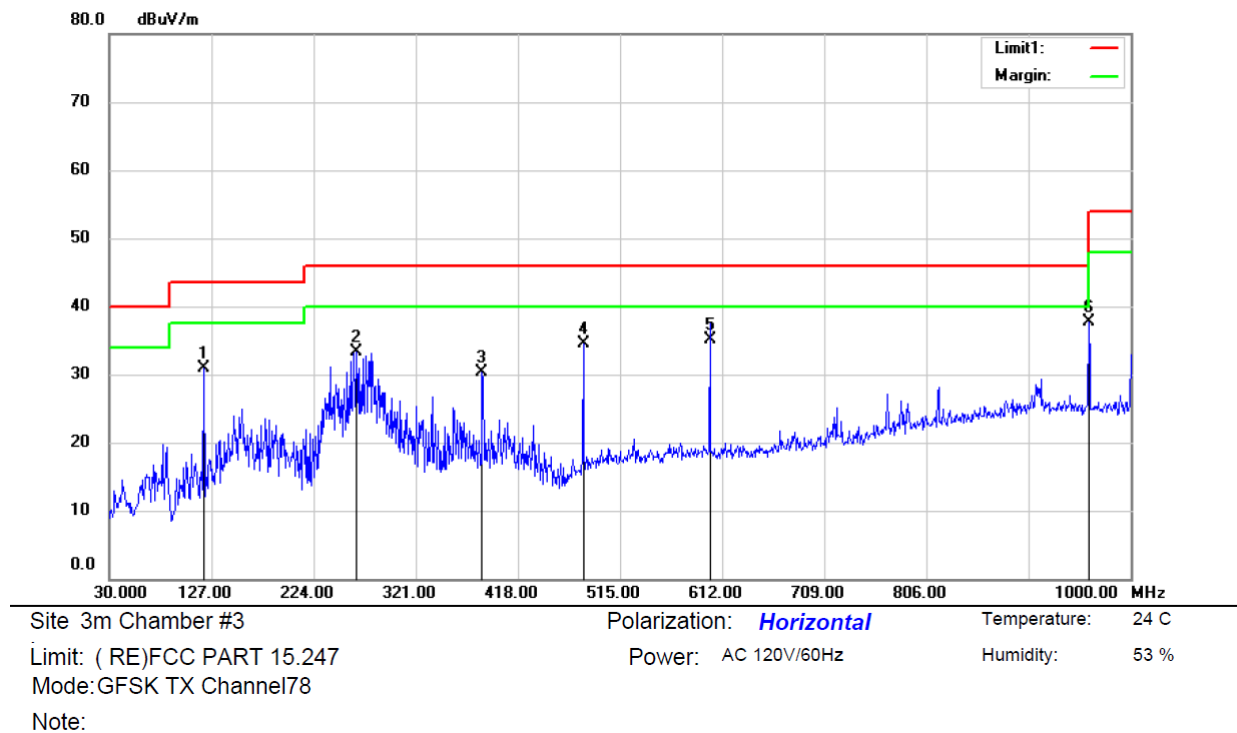
Mode:GFSK TX Channel39

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	74.6200	49.88	-19.44	30.44	40.00	-9.56	QP		
2		120.2100	47.43	-16.36	31.07	43.50	-12.43	QP		
3		168.7100	47.99	-19.34	28.65	43.50	-14.85	QP		
4		276.3800	43.18	-12.61	30.57	46.00	-15.43	QP		
5		480.0800	41.96	-9.53	32.43	46.00	-13.57	QP		
6		960.2300	39.13	-0.72	38.41	54.00	-15.59	QP		

*:Maximum data x:Over limit !:over margin

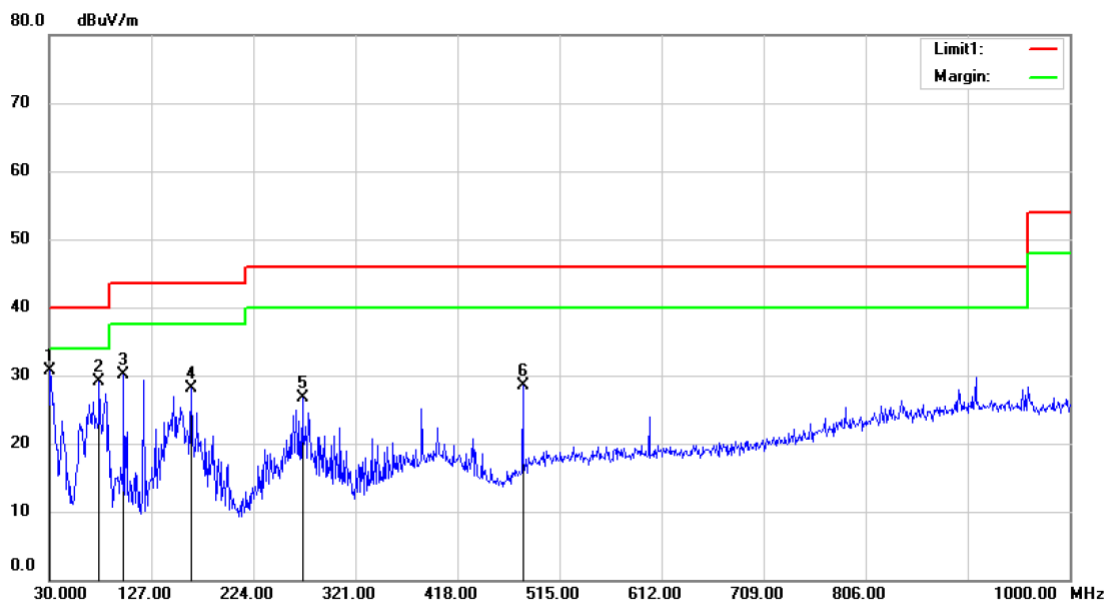
Operator:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		120.2100	47.18	-16.36	30.82	43.50	-12.68	QP		
2		264.7400	46.05	-12.74	33.31	46.00	-12.69	QP		
3		384.0500	40.14	-9.77	30.37	46.00	-15.63	QP		
4		480.0800	43.95	-9.53	34.42	46.00	-11.58	QP		
5	*	600.3600	42.15	-6.99	35.16	46.00	-10.84	QP		
6		960.2300	38.49	-0.72	37.77	54.00	-16.23	QP		

*:Maximum data x:Over limit !:over margin

Operator:



Site 3m Chamber #3 Polarization: **Vertical** Temperature: 24 C
Limit: (RE)FCC PART 15.247 Power: AC 120V/60Hz Humidity: 53 %
Mode:GFSK TX Channel78
Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
		MHz	Level	Factor	ment			Height	Degree	
			dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	30.9700	46.83	-16.13	30.70	40.00	-9.30	QP		
2		77.5300	48.63	-19.46	29.17	40.00	-10.83	QP		
3		100.8100	44.06	-14.02	30.04	43.50	-13.46	QP		
4		164.8300	47.08	-19.07	28.01	43.50	-15.49	QP		
5		270.5600	39.31	-12.68	26.63	46.00	-19.37	QP		
6		480.0800	37.99	-9.53	28.46	46.00	-17.54	QP		

*:Maximum data x:Over limit !:over margin

Operator:

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

Bluetooth v2.0 /v2.1/v3.0 GFSK mode have been tested, and the worst result was report as below:

Temperature: 24℃ Test Date: September 24, 2015
Humidity: 53 % Test By: KING KONG
Test mode: GFSK Frequency: Channel 0: 2402MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
14158.00	V	51.02	36.84	74.00	54.00	-22.98	-17.16
16113.00	V	51.33	35.34	74.00	54.00	-22.67	-18.66
17507.00	V	50.91	34.68	74.00	54.00	-23.09	-19.32
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14260.00	H	48.09	32.56	74.00	54.00	-25.91	-21.44
15739.00	H	50.63	34.86	74.00	54.00	-23.37	-19.14
16844.00	H	52.62	37.52	74.00	54.00	-21.38	-16.48

Temperature: 24℃ Test Date: September 24, 2015
Humidity: 53 % Test By: KING KONG
Test mode: GFSK Frequency: Channel 39: 2441MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
15263.00	V	51.48	36.38	74.00	54.00	-22.52	-17.62
16368.00	V	51.63	35.51	74.00	54.00	-22.37	-18.49
17371.00	V	52.53	37.49	74.00	54.00	-21.47	-16.51
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15484.00	H	50.53	34.82	74.00	54.00	-23.47	-19.18
16045.00	H	50.69	35.16	74.00	54.00	-23.31	-18.84
17354.00	H	50.68	34.76	74.00	54.00	-23.32	-19.24

Temperature: 24℃ Test Date: September 24, 2015
Humidity: 53 % Test By: KING KONG
Test mode: GFSK Frequency: Channel 78: 2480MHz

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
14243.00	V	49.03	33.98	74.00	54.00	-24.97	-20.02
15926.00	V	51.18	35.19	74.00	54.00	-22.82	-18.81
16708.00	V	51.25	35.64	74.00	54.00	-22.75	-18.36
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--	--	--	--	--	--	--	--
13920.00	H	49.95	33.56	74.00	54.00	-24.05	-20.44
15246.00	H	49.69	33.28	74.00	54.00	-24.31	-20.72
16215.00	H	49.80	34.31	74.00	54.00	-24.20	-19.69

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

(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.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

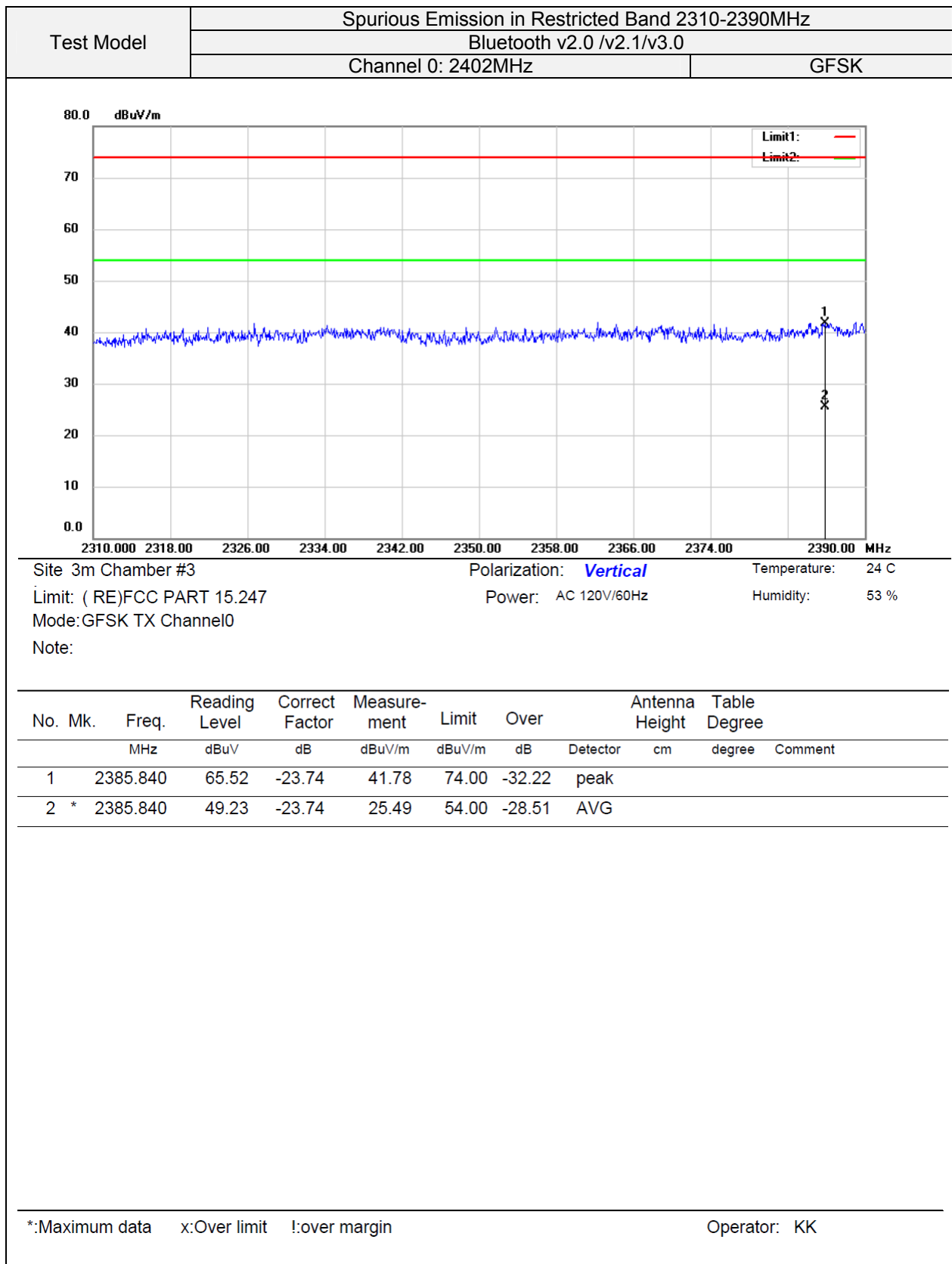
All the modulation modes were tested, the data of the worst mode are described in the following table

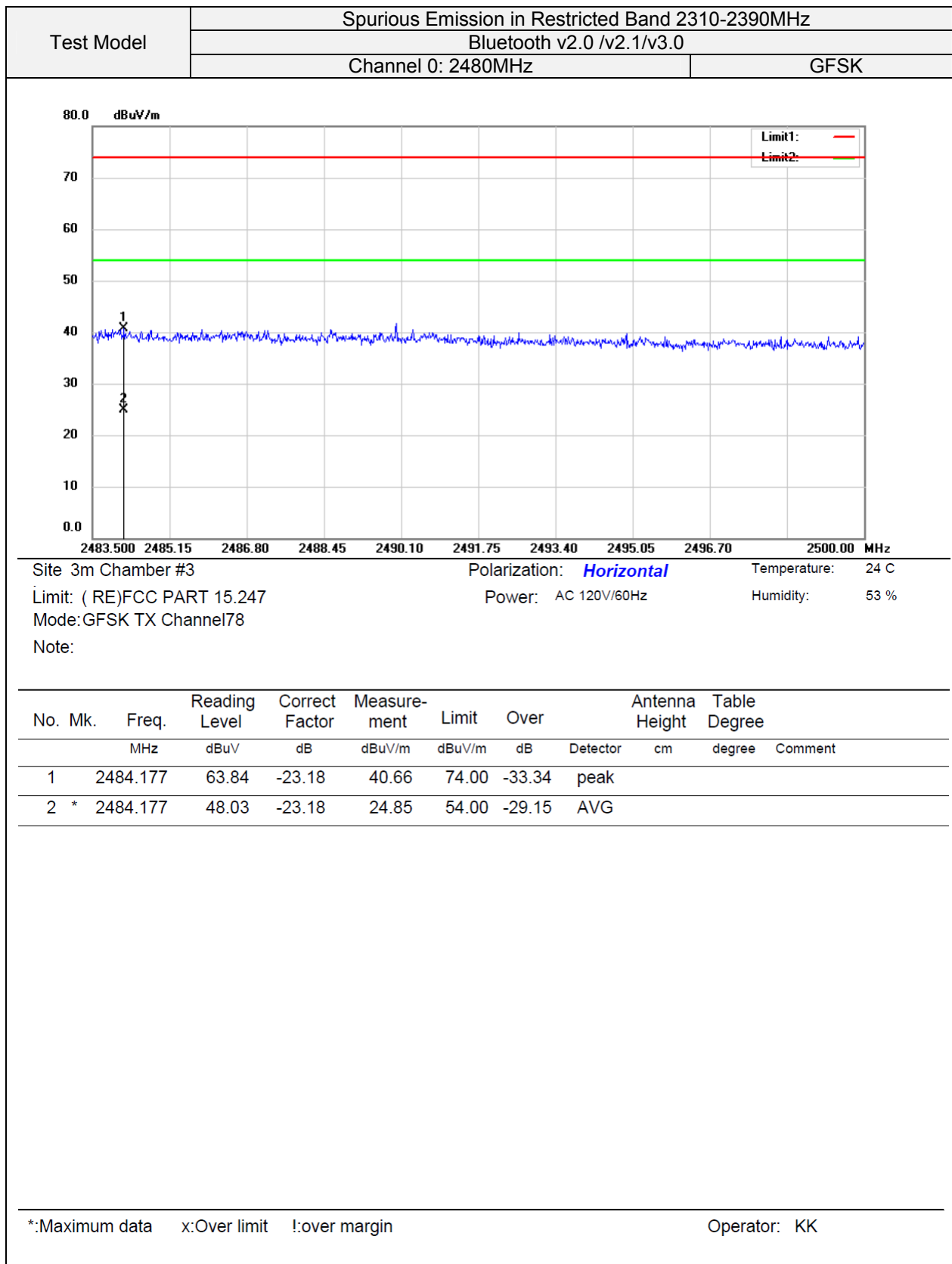
Test Model	Spurious Emission in Restricted Band 2310-2390MHz									
	Bluetooth v2.0 /v2.1/v3.0									
	Channel 0: 2402MHz					GFSK				

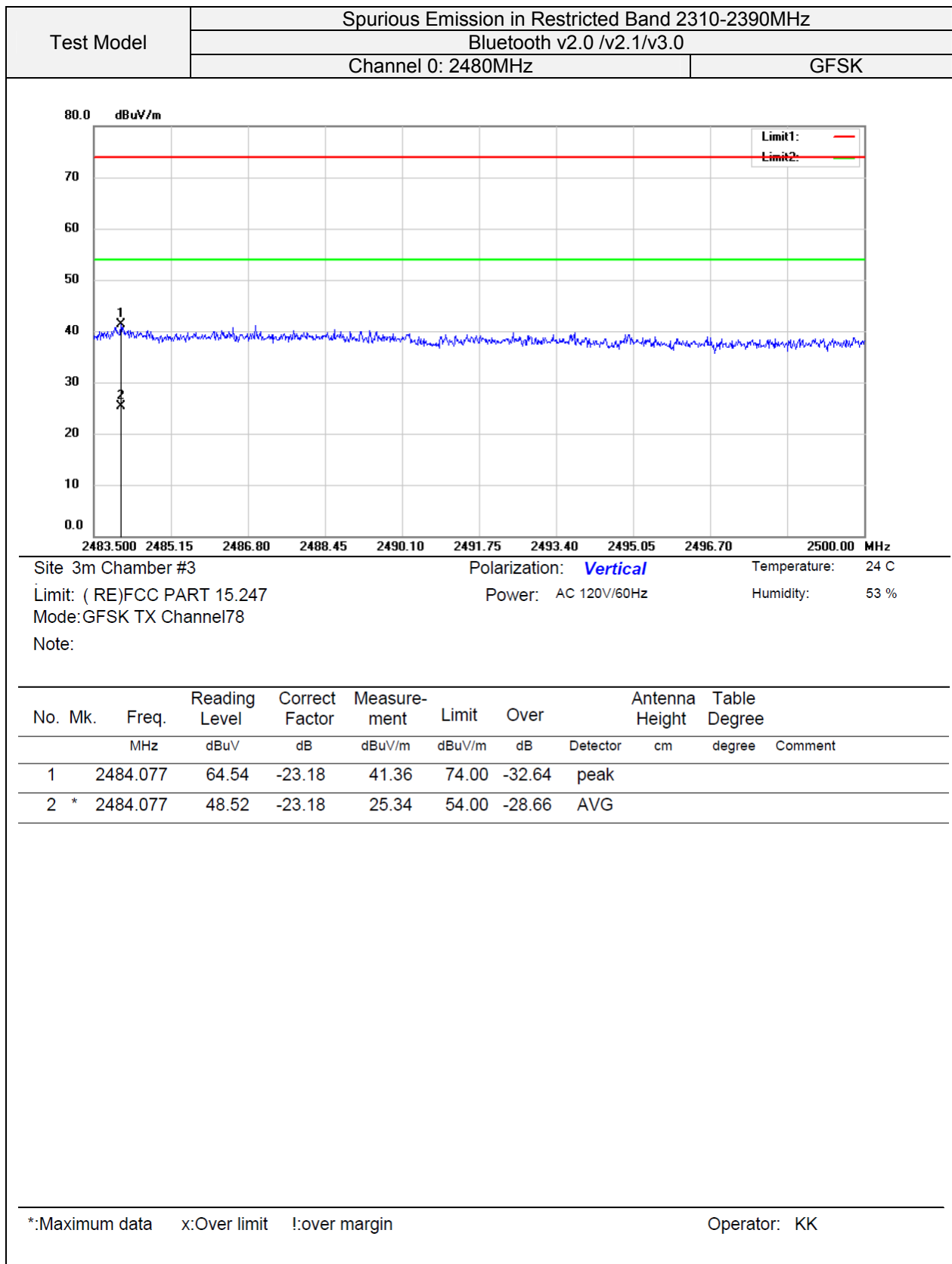
Site: 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C
Limit: (RE)FCC PART 15.247 Power: AC 120V/60Hz Humidity: 53 %
Mode:GFSK TX Channel0
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2384.240	64.29	-23.74	40.55	74.00	-33.45	peak		
2	*	2384.240	48.90	-23.74	25.16	54.00	-28.84	AVG		

*:Maximum data x:Over limit !:over margin Operator: KK









Test Model	Spurious Emission in Hopping mode									
	Bluetooth v2.0 /v2.1/v3.0									
	Horizontal					GFSK				

100.0 dBuV/m

Limit1: —
Limit2: —

2310.00 2329.00 2348.00 2367.00 2386.00 2405.00 2424.00 2443.00 2462.00 2500.00 MHz

Site 3m Chamber #3

Limit: (RE)FCC PART 15.247

Mode:Hopping

Note:

Polarization: Horizontal

Power: AC 120V/60Hz

Temperature: 24 C

Humidity: 53 %

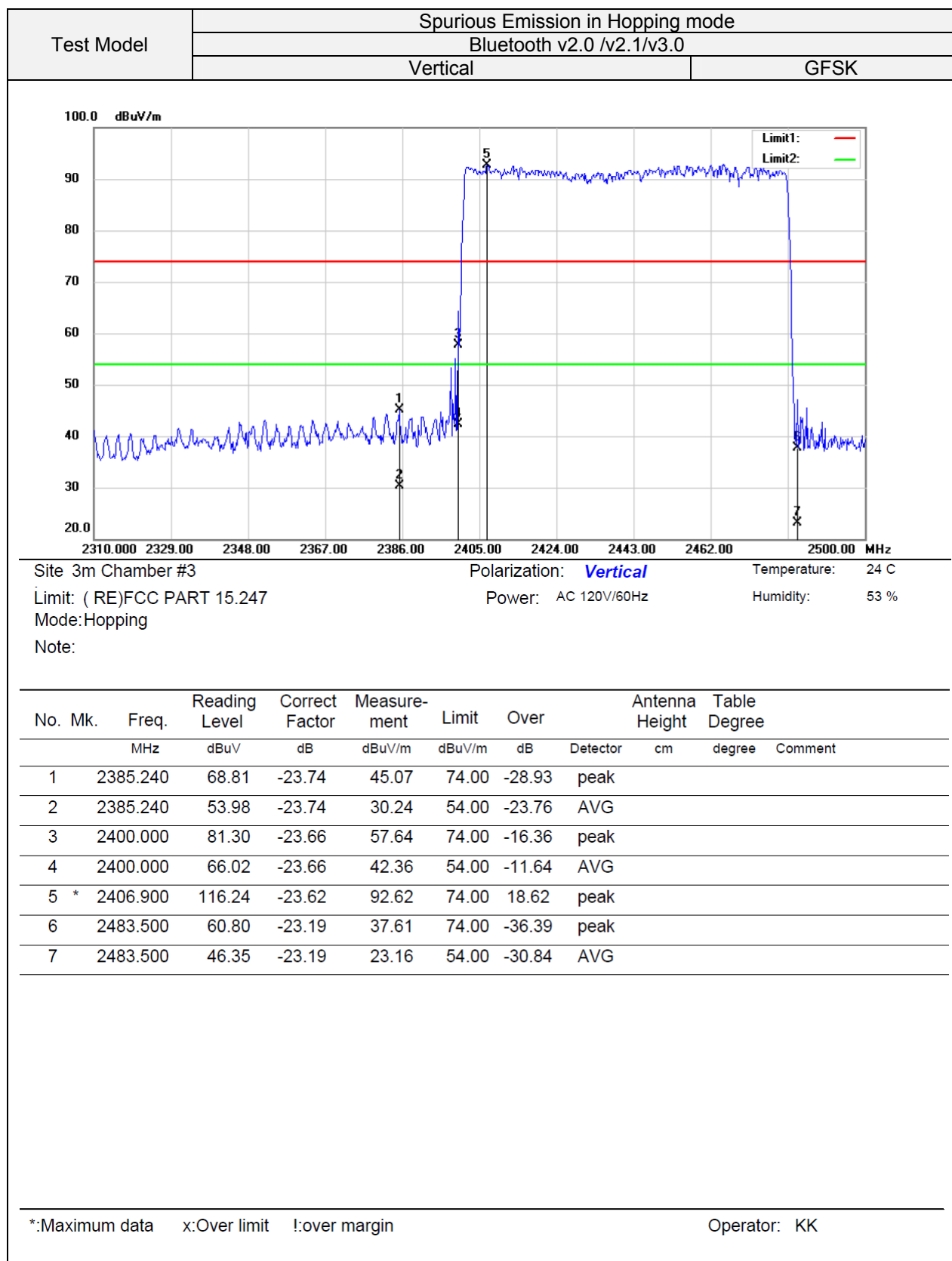
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2388.280	69.13	-23.73	45.40	74.00	-28.60	peak		
2		2388.280	53.86	-23.73	30.13	54.00	-23.87	AVG		
3		2400.000	81.37	-23.66	57.71	74.00	-16.29	peak		
4		2400.000	55.82	-23.66	32.16	54.00	-21.84	AVG		
5	*	2412.030	120.20	-23.59	96.61	74.00	22.61	peak		
6		2483.500	69.73	-23.19	46.54	74.00	-27.46	peak		
7		2483.500	53.48	-23.19	30.29	54.00	-23.71	AVG		

*:Maximum data

x:Over limit

!:over margin

Operator: KK



9.8 CONDUCTED EMISSION TEST

9.8.1 Applicable Standard

According to FCC Part 15.207(a)

9.8.2 Conformance Limit

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

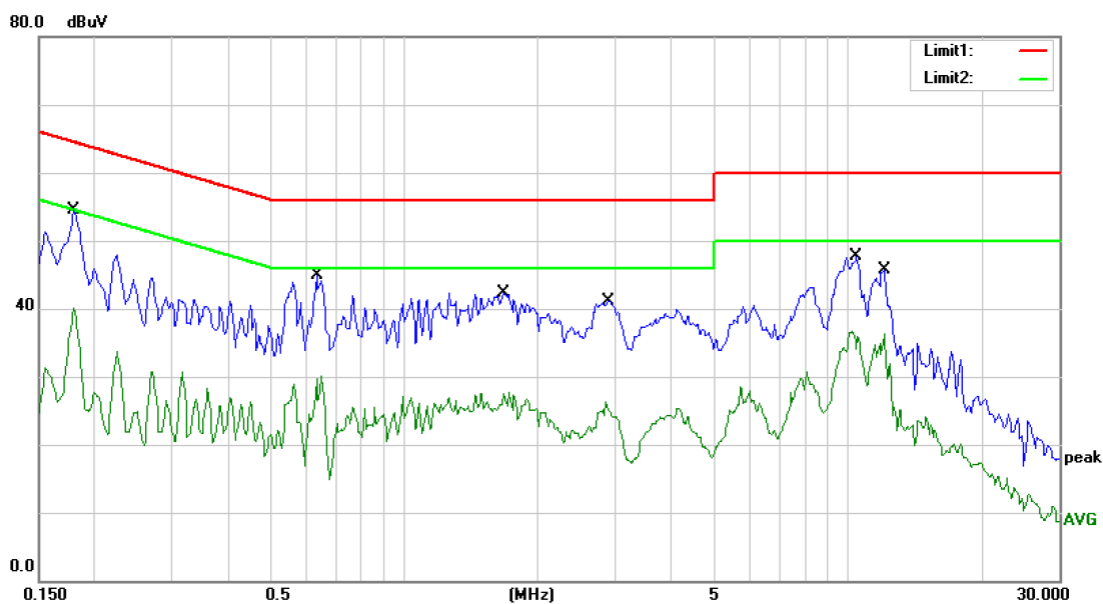
9.8.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

9.8.4 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.

9.8.5 Test Results



Site Conduction #1

Phase: **L1**

Temperature: 22

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

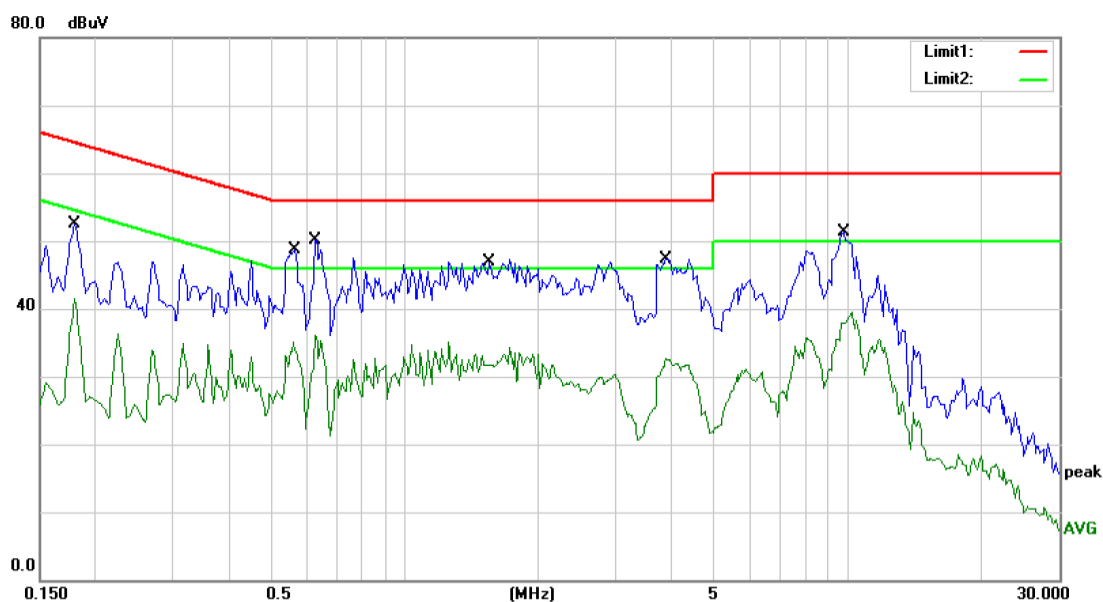
Humidity: 50 %

Mode: ON

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1800	54.53	0.00	54.53	64.49	-9.96	QP	
2		0.1800	40.03	0.00	40.03	54.49	-14.46	AVG	
3		0.6350	44.94	0.00	44.94	56.00	-11.06	QP	
4		0.6350	30.20	0.00	30.20	46.00	-15.80	AVG	
5		1.6750	42.26	0.00	42.26	56.00	-13.74	QP	
6		1.6750	27.77	0.00	27.77	46.00	-18.23	AVG	
7		2.8950	41.19	0.00	41.19	56.00	-14.81	QP	
8		2.8950	26.30	0.00	26.30	46.00	-19.70	AVG	
9		10.5000	47.62	0.00	47.62	60.00	-12.38	QP	
10		10.5000	36.61	0.00	36.61	50.00	-13.39	AVG	
11		12.1000	45.67	0.00	45.67	60.00	-14.33	QP	
12		12.1000	36.22	0.00	36.22	50.00	-13.78	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: KK



Site Conduction #1

Phase: **N**

Temperature: 22

Limit: (CE)FCC PART 15 class B_QP

Power: AC 120V/60Hz

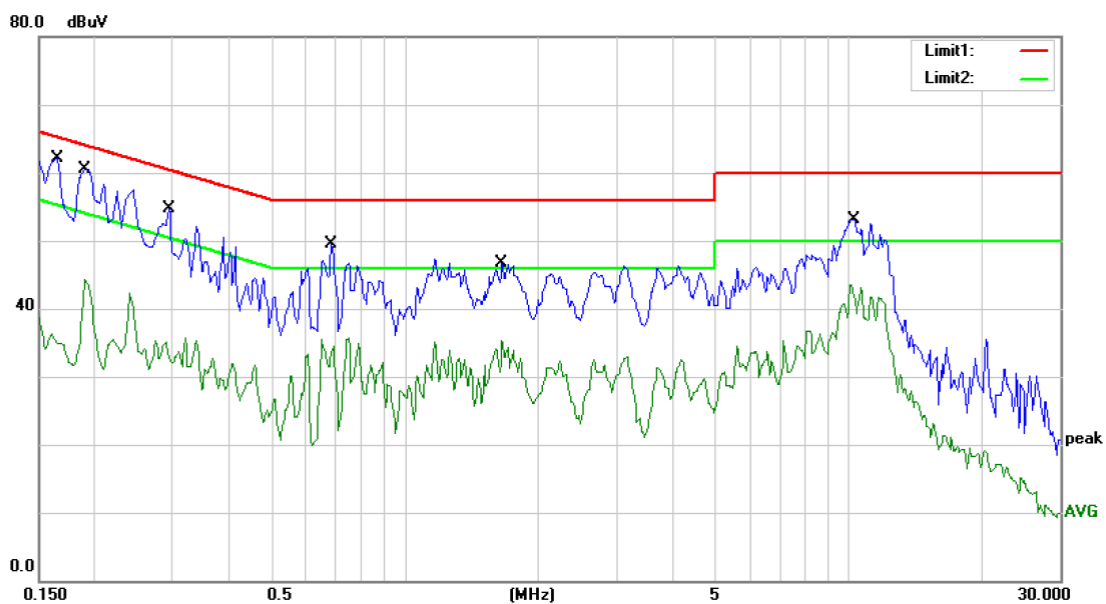
Humidity: 50 %

Mode: ON

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.1800	52.52	0.00	52.52	64.49	-11.97	QP	
2	0.1800	41.48	0.00	41.48	54.49	-13.01	AVG	
3	0.5650	48.67	0.00	48.67	56.00	-7.33	QP	
4	0.5650	35.01	0.00	35.01	46.00	-10.99	AVG	
5 *	0.6300	50.19	0.00	50.19	56.00	-5.81	QP	
6	0.6300	36.14	0.00	36.14	46.00	-9.86	AVG	
7	1.5500	46.83	0.00	46.83	56.00	-9.17	QP	
8	1.5500	34.23	0.00	34.23	46.00	-11.77	AVG	
9	3.9000	47.35	0.00	47.35	56.00	-8.65	QP	
10	3.9000	32.60	0.00	32.60	46.00	-13.40	AVG	
11	9.7900	51.34	0.00	51.34	60.00	-8.66	QP	
12	9.7900	39.54	0.00	39.54	50.00	-10.46	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: KK



Site Conduction #1

Phase: **L1**

Temperature: 22

Limit: (CE)FCC PART 15 class B_QP

Power: AC 240V/50Hz

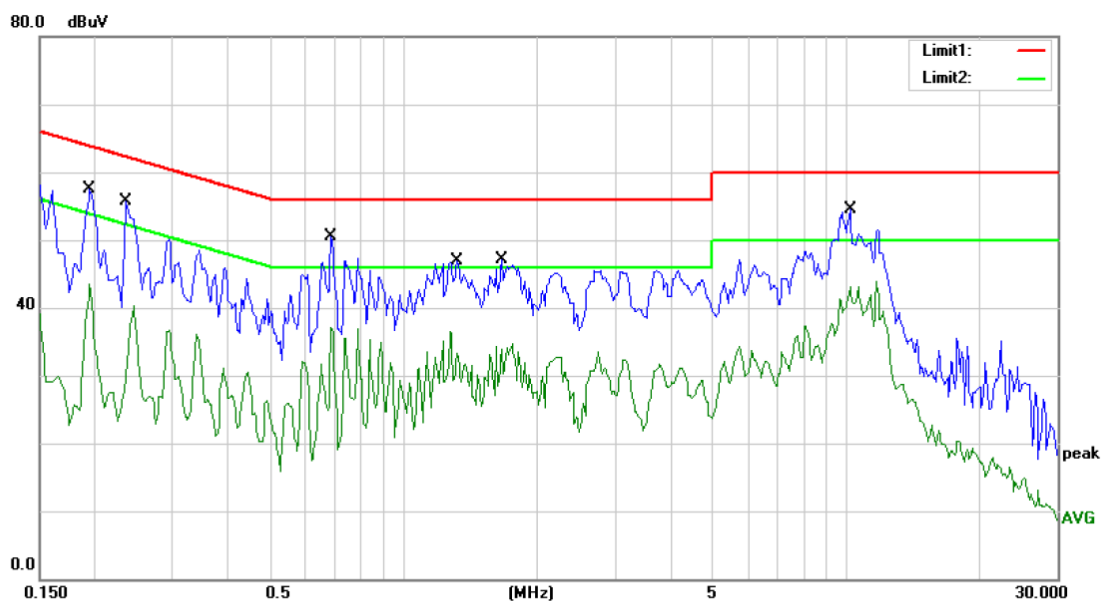
Humidity: 50 %

Mode: ON

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1650	62.19	0.00	62.19	65.21	-3.02	QP	
2		0.1650	38.78	0.00	38.78	55.21	-16.43	AVG	
3		0.1900	60.48	0.00	60.48	64.04	-3.56	QP	
4		0.1900	44.38	0.00	44.38	54.04	-9.66	AVG	
5		0.2950	54.76	0.00	54.76	60.38	-5.62	QP	
6		0.2950	35.69	0.00	35.69	50.38	-14.69	AVG	
7		0.6850	49.44	0.00	49.44	56.00	-6.56	QP	
8		0.6850	35.64	0.00	35.64	46.00	-10.36	AVG	
9		1.6600	46.70	0.00	46.70	56.00	-9.30	QP	
10		1.6600	35.35	0.00	35.35	46.00	-10.65	AVG	
11		10.3250	53.18	0.00	53.18	60.00	-6.82	QP	
12		10.3250	43.53	0.00	43.53	50.00	-6.47	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: KK



Site Conduction #1

Phase: **N**

Temperature: 22

Limit: (CE)FCC PART 15 class B_QP

Power: AC 240V/50Hz

Humidity: 50 %

Mode: ON

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1950	57.50	0.00	57.50	63.82	-6.32	QP	
2	0.1950	43.53	0.00	43.53	53.82	-10.29	AVG	
3	0.2350	55.70	0.00	55.70	62.27	-6.57	QP	
4	0.2350	40.29	0.00	40.29	52.27	-11.98	AVG	
5	0.6850	50.43	0.00	50.43	56.00	-5.57	QP	
6	0.6850	37.06	0.00	37.06	46.00	-8.94	AVG	
7	1.3200	46.85	0.00	46.85	56.00	-9.15	QP	
8	1.3200	36.59	0.00	36.59	46.00	-9.41	AVG	
9	1.6650	47.04	0.00	47.04	56.00	-8.96	QP	
10	1.6650	34.63	0.00	34.63	46.00	-11.37	AVG	
11 *	10.2000	54.44	0.00	54.44	60.00	-5.56	QP	
12	10.2000	43.88	0.00	43.88	50.00	-6.12	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: KK

9.9 ANTENNA APPLICATION

9.9.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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.

9.9.2 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 2dBi and meets the requirement.

END OF REPORT