



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT1962-1
FCC ID : IHDT56XP1
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

This is a partial report. The product testing was completed on Oct. 21, 2018. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.
No. 1098, Pengxi North Road, Kunshan Economic Development Zone,
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR891009	Rev. 01	Initial issue of report	Oct. 25, 2018



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.51 dB at 2389.82 MHz
3.2	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT1962-1
FCC ID	IHDT56XP1
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/ DC-HSDPA/HSPA+ (16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth BR/EDR/LE
IMEI Code	Radiation: 355569090025235
HW Version	DVT1B
SW Version	PPO29.62
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Antenna Type / Gain	Monopole Antenna with gain 3.00 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)



1.5 Specification of Accessory

Specification of Accessory				
AC Adapter 1 (US)	Brand Name	Motorola(Salom)	Model Name	SC-51
	Power Rating	I/P: 100 - 240 Vac, 600mA; O/P: 5/9/12Vdc~3000/2000/1500mA		
AC Adapter 2 (US)	Brand Name	Motorola(Chenyang)	Model Name	SC-51
	Power Rating	I/P: 100 - 240 Vac, 600mA; O/P: 5/9/12Vdc~3000/2000/1500mA		
USB Cable 1	Brand Name	Motorola(Luxshare)	Model Name	SKN6473A
	Signal Line	1.0 meter, shielded cable, without ferrite core		
USB Cable 2	Brand Name	Motorola (Cabletech)	Model Name	SKN6473A
	Signal Line	1.0 meter, shielded cable, without ferrite core		
USB Cable 3	Brand Name	Motorola (Saibao)	Model Name	SKN6473A
	Signal Line	1.0 meter, shielded cable, without ferrite core		
Earphone	Brand Name	Motorola (Lyand)	Model Name	SH38C37773
	Signal Line	1.1 meter, non-shielded cable, without ferrite core		
Battery	Brand Name	Motorola (Amperex)	Model Name	JG30
	Power Rating	3.8Vdc, 3000mAh	Type	Li-ion

1.6 Modification of EUT

No modifications are made to the EUT during all test items.



1.7 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0).

Test Site	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China TEL : 86-512-57900158 FAX : 86-512-57900958		
Test Site No.	Sporton Site No.	FCC designation No.	FCC Test Firm Registration No.
	03CH05-KS	CN5013	630927

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

2.1 Carrier Frequency and Channel

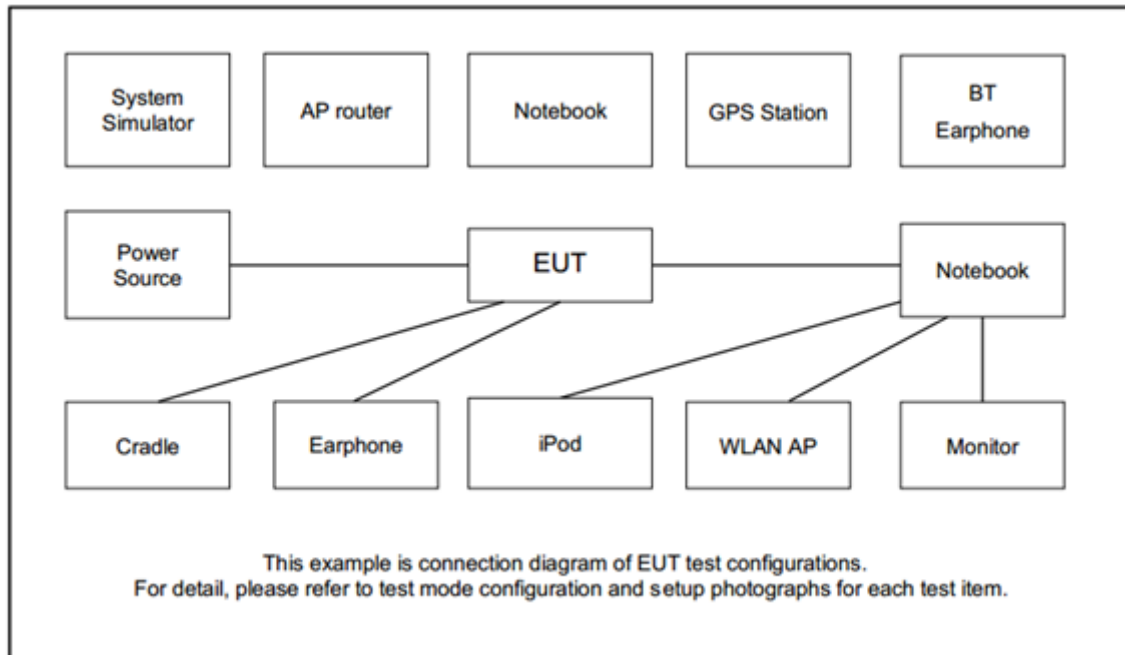
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

For WLAN function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

3 Test Result

3.1 Radiated Band Edges and Spurious Emission Measurement

3.1.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

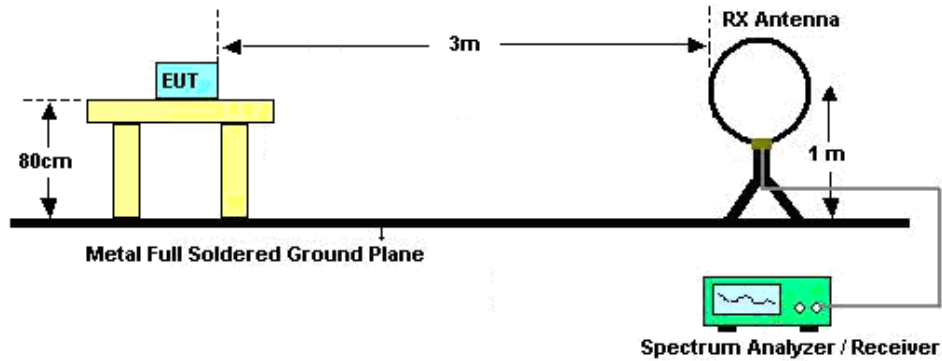
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively 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. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

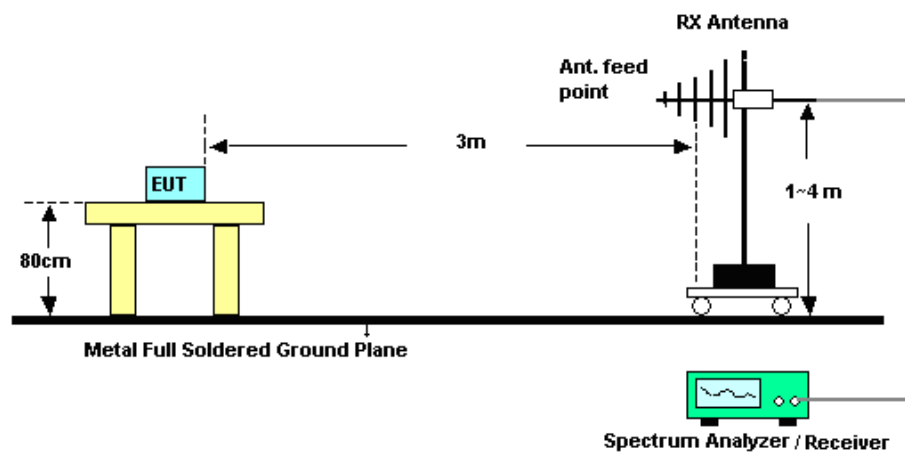
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.1.4 Test Setup

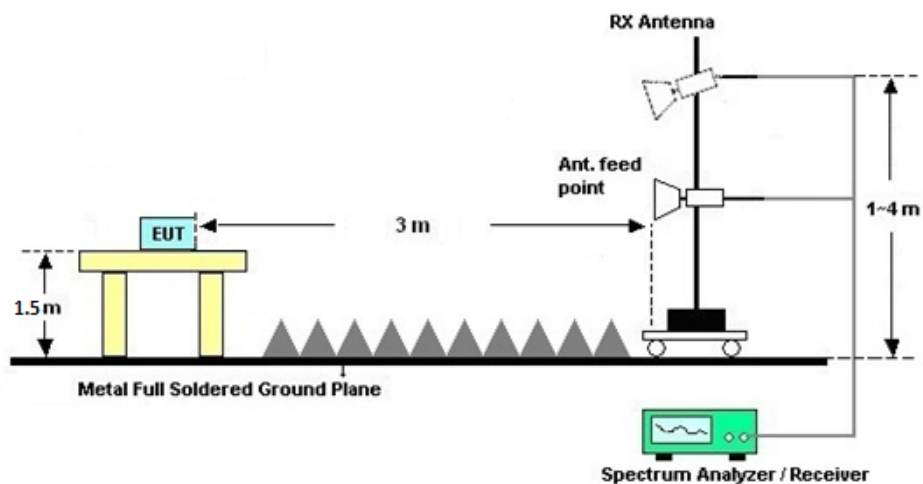
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.1.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.1.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A & B.

3.1.7 Duty Cycle

Please refer to Appendix C.

3.1.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix A & B.



3.2 Antenna Requirements

3.2.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.2.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.2.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Jun. 25, 2018	Oct. 21, 2018	Jun. 24, 2019	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	Apr. 17, 2018	Oct. 21, 2018	Apr. 16, 2019	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 23, 2017	Oct. 21, 2018	Oct. 22, 2018	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-1GHz	Apr. 19, 2018	Oct. 21, 2018	Apr. 18, 2019	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 21, 2018	Oct. 21, 2018	Jan. 20, 2019	Radiation (03CH05-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	Oct. 21, 2018	Feb. 06, 2019	Radiation (03CH05-KS)
Amplifier	com-power	PA-103A	161069	1MHz~1000MHz / 32 dB	Apr. 17, 2018	Oct. 21, 2018	Apr. 16, 2019	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Apr. 17, 2018	Oct. 21, 2018	Apr. 16, 2019	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Apr. 18, 2018	Oct. 21, 2018	Apr. 17, 2019	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 21, 2018	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 21, 2018	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 21, 2018	NCR	Radiation (03CH05-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
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Appendix A. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2389.82	48.31	-25.69	74	42.63	32	5.48	31.8	388	182	P	H
		2389.95	38.3	-15.7	54	32.62	32	5.48	31.8	388	182	A	H
	*	2412	106	-	-	100.19	32.13	5.48	31.8	388	182	P	H
	*	2410	102.72	-	-	96.91	32.13	5.48	31.8	388	182	A	H
		2389.95	48.89	-25.11	74	43.21	32	5.48	31.8	166	20	P	V
		2389.95	40.31	-13.69	54	34.63	32	5.48	31.8	166	20	A	V
	*	2412	109.02	-	-	103.21	32.13	5.48	31.8	166	20	P	V
	*	2410	106.08	-	-	100.27	32.13	5.48	31.8	166	20	A	V
802.11b CH 11 2462MHz	*	2462	107.18	-	-	101.14	32.33	5.51	31.8	299	355	P	H
	*	2460	103.34	-	-	97.3	32.33	5.51	31.8	299	355	A	H
		2483.98	50.52	-23.48	74	44.5	32.27	5.55	31.8	299	355	P	H
		2484.52	40.33	-13.67	54	34.31	32.27	5.55	31.8	299	355	A	H
	*	2462	109.51	-	-	103.47	32.33	5.51	31.8	143	297	P	V
	*	2464	106.13	-	-	100.05	32.33	5.55	31.8	143	297	A	V
		2484.28	52.3	-21.7	74	46.28	32.27	5.55	31.8	143	297	P	V
		2484.52	42.98	-11.02	54	36.96	32.27	5.55	31.8	143	297	A	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	39.35	-34.65	74	60.8	34.2	8.1	63.75	100	0	P	H
		4824	43.22	-30.78	74	64.67	34.2	8.1	63.75	100	0	P	V
802.11b CH 06 2437MHz		4872	40.43	-33.57	74	61.94	34.13	8.09	63.73	100	360	P	H
		7311	43.74	-30.26	74	61.76	36.6	9.75	64.37	100	360	P	H
		4874	39.6	-34.4	74	61.11	34.13	8.09	63.73	100	360	P	V
		7308	43.07	-30.93	74	61.09	36.6	9.75	64.37	100	360	P	V
802.11b CH 11 2462MHz		4926	38.79	-35.21	74	60.34	34.1	8.06	63.71	100	360	P	H
		7386	43.14	-30.86	74	61.21	36.5	9.81	64.38	100	360	P	H
		4924	40.04	-33.96	74	61.59	34.1	8.06	63.71	100	52	P	V
		7386	43.02	-30.98	74	61.09	36.5	9.81	64.38	100	52	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.82	60.13	-13.87	74	54.45	32	5.48	31.8	390	176	P	H
		2389.95	44.31	-9.69	54	38.63	32	5.48	31.8	390	176	A	H
	*	2406	105.1	-	-	99.29	32.13	5.48	31.8	390	176	P	H
	*	2408	97.81	-	-	92	32.13	5.48	31.8	390	176	A	H
		2389.95	64.04	-9.96	74	58.36	32	5.48	31.8	164	18	P	V
	!	2389.95	49.76	-4.24	54	44.08	32	5.48	31.8	164	18	A	V
	*	2406	109.85	-	-	104.04	32.13	5.48	31.8	164	18	P	V
	*	2406	102.29	-	-	96.48	32.13	5.48	31.8	164	18	A	V
802.11g CH 11 2462MHz	*	2458	105.02	-	-	98.98	32.33	5.51	31.8	338	360	P	H
	*	2456	97.23	-	-	91.19	32.33	5.51	31.8	338	360	A	H
		2483.98	64.77	-9.23	74	58.75	32.27	5.55	31.8	338	360	P	H
		2483.5	47	-7	54	40.98	32.27	5.55	31.8	338	360	A	H
	*	2462	105.31	-	-	99.27	32.33	5.51	31.8	100	332	P	V
	*	2468	97.36	-	-	91.28	32.33	5.55	31.8	100	332	A	V
		2484.4	65.81	-8.19	74	59.79	32.27	5.55	31.8	100	332	P	V
	!	2483.8	48.06	-5.94	54	42.04	32.27	5.55	31.8	100	332	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	41.43	-32.57	74	62.88	34.2	8.1	63.75	100	0	P	H
		4824	41.12	-32.88	74	62.57	34.2	8.1	63.75	100	360	P	V
802.11g CH 06 2437MHz		4872	40.66	-33.34	74	62.17	34.13	8.09	63.73	100	0	P	H
		7311	42.29	-31.71	74	60.31	36.6	9.75	64.37	100	0	P	H
		4874	40.89	-33.11	74	62.4	34.13	8.09	63.73	100	0	P	V
		7308	42.82	-31.18	74	60.84	36.6	9.75	64.37	100	0	P	V
802.11g CH 11 2462MHz		4926	39.27	-34.73	74	60.82	34.1	8.06	63.71	100	360	P	H
		7386	43.73	-30.27	74	61.8	36.5	9.81	64.38	100	360	P	H
		4924	40.81	-33.19	74	62.36	34.1	8.06	63.71	100	0	P	V
		7386	41.95	-32.05	74	60.02	36.5	9.81	64.38	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.95	63.87	-10.13	74	58.19	32	5.48	31.8	389	185	P	H
	!	2389.95	48.29	-5.71	54	42.61	32	5.48	31.8	389	185	A	H
	*	2404	106.51	-	-	100.7	32.13	5.48	31.8	389	185	P	H
	*	2406	98.96	-	-	93.15	32.13	5.48	31.8	389	185	A	H
		2389.95	66.53	-7.47	74	60.85	32	5.48	31.8	100	22	P	V
	!	2389.82	50.49	-3.51	54	44.81	32	5.48	31.8	100	22	A	V
	*	2406	108.84	-	-	103.03	32.13	5.48	31.8	100	22	P	V
	*	2406	101.78	-	-	95.97	32.13	5.48	31.8	100	22	A	V
802.11n HT20 CH 11 2462MHz	*	2456	103.95	-	-	97.91	32.33	5.51	31.8	304	40	P	H
	*	2456	96.07	-	-	90.03	32.33	5.51	31.8	304	40	A	H
		2483.86	67.4	-6.6	74	61.38	32.27	5.55	31.8	304	40	P	H
	!	2483.62	48.9	-5.1	54	42.88	32.27	5.55	31.8	304	40	A	H
	*	2458	105.69	-	-	99.65	32.33	5.51	31.8	287	291	P	V
	*	2456	98.45	-	-	92.41	32.33	5.51	31.8	287	291	A	V
	!	2483.68	70.38	-3.62	74	64.36	32.27	5.55	31.8	287	291	P	V
	!	2483.5	49.6	-4.4	54	43.58	32.27	5.55	31.8	287	291	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	41	-33	74	62.45	34.2	8.1	63.75	100	360	P	H
		4824	40.89	-33.11	74	62.34	34.2	8.1	63.75	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	40.87	-33.13	74	62.38	34.13	8.09	63.73	100	117	P	H
		7308	42.05	-31.95	74	60.07	36.6	9.75	64.37	100	117	P	H
		4872	39.59	-34.41	74	61.1	34.13	8.09	63.73	100	360	P	V
		7311	42.23	-31.77	74	60.25	36.6	9.75	64.37	100	360	P	V
802.11n HT20 CH 11 2462MHz		4926	40.15	-33.85	74	61.7	34.1	8.06	63.71	100	360	P	H
		7386	42.78	-31.22	74	60.85	36.5	9.81	64.38	100	360	P	H
		4924	37.96	-36.04	74	59.51	34.1	8.06	63.71	100	360	P	V
		7386	43.25	-30.75	74	61.32	36.5	9.81	64.38	100	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		37.76	29.5	-10.5	40	41.83	19.46	0.71	32.5	100	0	P	H
		143.49	25.74	-17.76	43.5	39.52	17.01	1.32	32.11			P	H
		155.13	28.55	-14.95	43.5	43.11	16.16	1.37	32.09			P	H
		250.19	27.08	-18.92	46	38.47	18.66	1.75	31.8			P	H
		437.4	25.06	-20.94	46	32.1	22.38	2.3	31.72			P	H
		856.44	31.3	-14.7	46	33.43	26.33	3.23	31.69			P	H
		36.79	36.01	-3.99	40	47.87	20.04	0.7	32.6	110	15	P	V
		61.04	30.76	-9.24	40	49.76	12.52	0.88	32.4			P	V
		76.56	28.66	-11.34	40	47.33	12.7	0.98	32.35			P	V
		120.21	25.3	-18.2	43.5	38.05	18.2	1.21	32.16			P	V
		152.22	26.25	-17.25	43.5	40.61	16.37	1.36	32.09			P	V
		235.64	26.87	-19.13	46	40.04	16.98	1.7	31.85			P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

**Note symbol**

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is not under limit 6dB.
P/A	P eak or A verage
H/V	H orizontal or V ertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

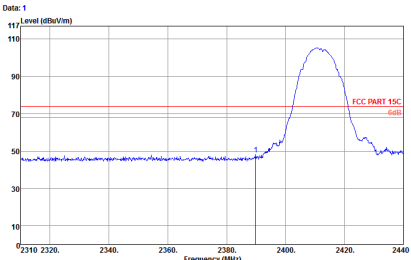
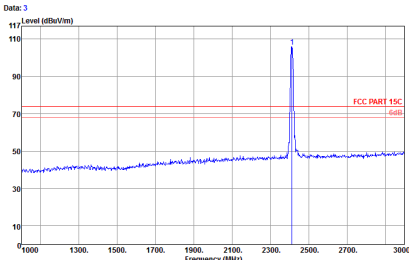
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix B. Radiated Spurious Emission Plots

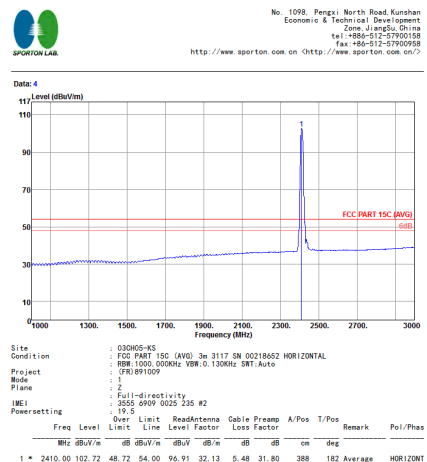
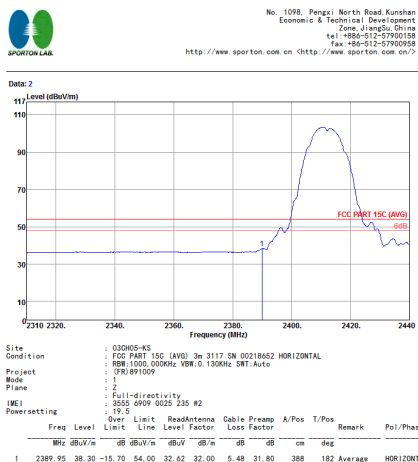
2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

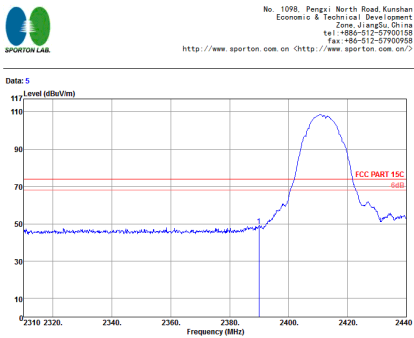
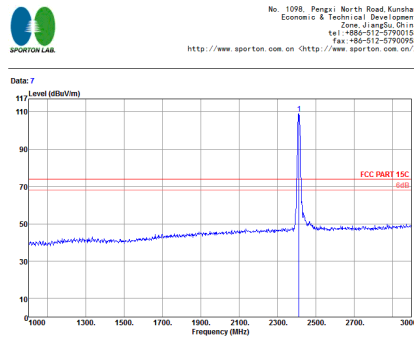
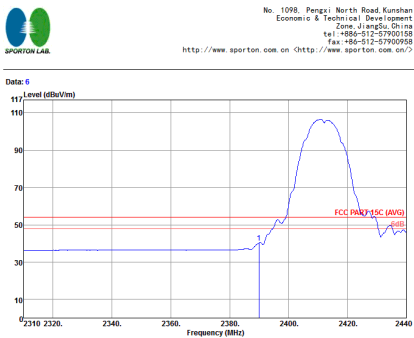
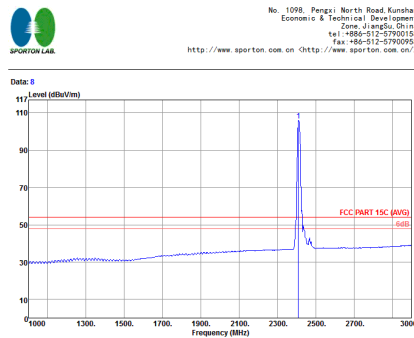
WIFI		2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																												
ANT		802.11b CH01 2412MHz																																																												
1		Horizontal	Fundamental																																																											
Peak	 No. 109B, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57909958 fax: +86-512-57909958 http://www.sportron.com.cn <http://www.sportron.com.cn/> Date: 1  Site : 03CH05-KS Condition : FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL Project : R88-1000.000KHz VDR-3000.000KHz SMT.Auto Mode : (FR)891009 Plane : 1 Z : 2 Full-directivity : 3555 6909 0025 235 #2 IMEI : 3555 6909 0025 235 #2 Powersetting : 19.5 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2389.82</td><td>48.31</td><td>-25.69</td><td>74.00</td><td>42.63</td><td>32.00</td><td>5.48</td><td>31.80</td><td>388</td><td>182 Peak</td><td>HORIZONTAL</td></tr></table>  No. 109B, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57909958 fax: +86-512-57909958 http://www.sportron.com.cn <http://www.sportron.com.cn/> Date: 3  Site : 03CH05-KS Condition : FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL Project : R88-1000.000KHz VDR-3000.000KHz SMT.Auto Mode : (FR)891009 Plane : 1 Z : 2 Full-directivity : 3555 6909 0025 235 #2 IMEI : 3555 6909 0025 235 #2 Powersetting : 19.5 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2412.00</td><td>165.00</td><td>32.00</td><td>74.00</td><td>100.19</td><td>32.13</td><td>5.48</td><td>31.80</td><td>388</td><td>182 Peak</td><td>HORIZONTAL</td></tr></table>		Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg		1	2389.82	48.31	-25.69	74.00	42.63	32.00	5.48	31.80	388	182 Peak	HORIZONTAL	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg		1	2412.00	165.00	32.00	74.00	100.19	32.13	5.48	31.80	388	182 Peak	HORIZONTAL
	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																					
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg																																																							
1	2389.82	48.31	-25.69	74.00	42.63	32.00	5.48	31.80	388	182 Peak	HORIZONTAL																																																			
Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																						
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1	2412.00	165.00	32.00	74.00	100.19	32.13	5.48	31.80	388	182 Peak	HORIZONTAL																																																			



Avg.



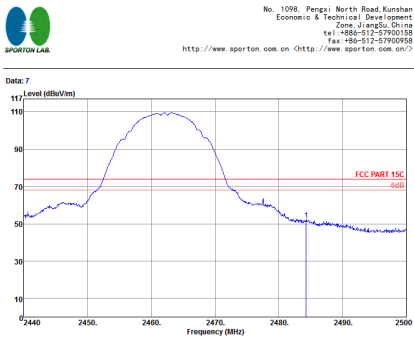


WIFI		2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT		802.11b CH01 2412MHz	
1	Vertical	Fundamental	
Peak	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 5 Level (dBuV/m) 110 90 70 50 30 10 2310 2320. 2340. 2360. 2380. 2400. 2420. 2440 Frequency (MHz) FCC PART 15C 66dB Site Condition Project Mode Plane IMEI Powersetting Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas 1 2389.95 48.89 -25.11 74.00 43.21 32.00 5.48 31.80 166 20 Peak VERTICAL	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 7 Level (dBuV/m) 110 90 70 50 30 10 1000 1300. 1500. 1700. 1900. 2100. 2300. 2500. 2700. 3000 Frequency (MHz) FCC PART 15C 66dB Site Condition Project Mode Plane IMEI Powersetting Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas 1 2412.00 109.02 35.02 74.00 103.21 32.13 5.48 31.80 166 20 Peak VERTICAL	
	Avg.	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 6 Level (dBuV/m) 110 90 70 50 30 10 2310 2320. 2340. 2360. 2380. 2400. 2420. 2440 Frequency (MHz) FCC PART 15C (AVG) 66dB Site Condition Project Mode Plane IMEI Powersetting Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas 1 2389.95 40.31 -13.69 54.00 34.63 32.00 5.48 31.80 166 20 Average VERTICAL	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 8 Level (dBuV/m) 110 90 70 50 30 10 1000 1300. 1500. 1700. 1900. 2100. 2300. 2500. 2700. 3000 Frequency (MHz) FCC PART 15C (AVG) 66dB Site Condition Project Mode Plane IMEI Powersetting Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas 1 2410.00 106.08 52.08 54.00 100.27 32.13 5.48 31.80 166 20 Average VERTICAL



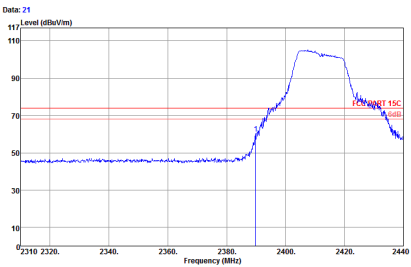
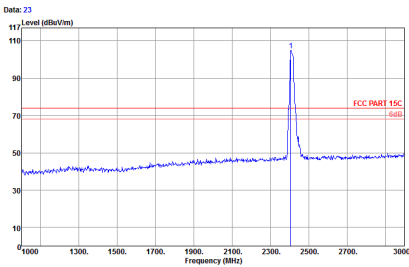
WIFI		2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																		
ANT		802.11b CH11 2462MHz																																																																		
1	Horizontal	Fundamental																																																																		
Peak	No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 3 Level (dBuV/m) Frequency (MHz) FCC PART 15C -66dB Site Condition: 030H05-K5 FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL RSM 1000.000MHz VSW:0.000dB SWT:Auto Project Mode: (FR)891009 Plane: 2 Full-directivity 3555 0909 0025 235 #2 IME1: 19.5 Powersetting <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2483.98</td><td>50.52</td><td>-23.48</td><td>74.00</td><td>44.50</td><td>32.27</td><td>5.55</td><td>31.80</td><td>299</td><td>355 Peak</td></tr></table> HORIZONTAL	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBm	dB	dB	cm	deg			1	2483.98	50.52	-23.48	74.00	44.50	32.27	5.55	31.80	299	355 Peak	No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 1 Level (dBuV/m) Frequency (MHz) FCC PART 15C -66dB Site Condition: 030H05-K5 FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL RSM 1000.000MHz VSW:0.000dB SWT:Auto Project Mode: (FR)891009 Plane: 2 Full-directivity 3555 0909 0025 235 #2 IME1: 19.5 Powersetting <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2462.00</td><td>107.18</td><td>33.18</td><td>74.00</td><td>101.14</td><td>32.33</td><td>5.51</td><td>31.80</td><td>299</td><td>355 Peak</td></tr></table> HORIZONTAL	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBm	dB	dB	cm	deg			1	2462.00	107.18	33.18	74.00	101.14	32.33	5.51	31.80	299	355 Peak
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																									
MHz	dBuV/m	dB	dBuV/m	dBm	dB	dB	cm	deg																																																												
1	2483.98	50.52	-23.48	74.00	44.50	32.27	5.55	31.80	299	355 Peak																																																										
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																										
MHz	dBuV/m	dB	dBuV/m	dBm	dB	dB	cm	deg																																																												
1	2462.00	107.18	33.18	74.00	101.14	32.33	5.51	31.80	299	355 Peak																																																										
Avg.	No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 4 Level (dBuV/m) Frequency (MHz) FCC PART 15C (AVG) -66dB Site Condition: 030H05-K5 FCC PART 15C (AVG) 3m 3117 SN 00218652 HORIZONTAL RSM 1000.000MHz VSW:0.130dB SWT:Auto Project Mode: (FR)891009 Plane: 2 Full-directivity 3555 0909 0025 235 #2 IME1: 19.5 Powersetting <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2484.52</td><td>40.33</td><td>-13.67</td><td>54.00</td><td>34.31</td><td>32.27</td><td>5.55</td><td>31.80</td><td>299</td><td>355 Average</td></tr></table> HORIZONTAL	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBm	dB	dB	cm	deg			1	2484.52	40.33	-13.67	54.00	34.31	32.27	5.55	31.80	299	355 Average	No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 2 Level (dBuV/m) Frequency (MHz) FCC PART 15C (AVG) -66dB Site Condition: 030H05-K5 FCC PART 15C (AVG) 3m 3117 SN 00218652 HORIZONTAL RSM 1000.000MHz VSW:0.130dB SWT:Auto Project Mode: (FR)891009 Plane: 2 Full-directivity 3555 0909 0025 235 #2 IME1: 19.5 Powersetting <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBm</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2460.00</td><td>103.34</td><td>49.34</td><td>54.00</td><td>97.30</td><td>32.33</td><td>5.51</td><td>31.80</td><td>299</td><td>355 Average</td></tr></table> HORIZONTAL	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBm	dB	dB	cm	deg			1	2460.00	103.34	49.34	54.00	97.30	32.33	5.51	31.80	299	355 Average
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																										
MHz	dBuV/m	dB	dBuV/m	dBm	dB	dB	cm	deg																																																												
1	2484.52	40.33	-13.67	54.00	34.31	32.27	5.55	31.80	299	355 Average																																																										
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																										
MHz	dBuV/m	dB	dBuV/m	dBm	dB	dB	cm	deg																																																												
1	2460.00	103.34	49.34	54.00	97.30	32.33	5.51	31.80	299	355 Average																																																										



WIFI		2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT		802.11b CH11 2462MHz	
1	Vertical	Fundamental	
Peak	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Date: 7 Level (dBuV/m)		



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI		2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																													
ANT		802.11g CH01 2412MHz																																																																													
1		Horizontal					Fundamental																																																																								
Peak	 No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900588 fax: +86-512-57900958 http://www.sportron.com.cn http://www.sportron.com.cn/  Site : 030H05-K5 Condition : FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL Project : FR891009 Mode : 4 Plane : Z Full-directivity : 3555 6099 0025 235 #2 Powersetting : 18.5 <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2389.82</td><td>60.13</td><td>-13.87</td><td>74.00</td><td>54.45</td><td>32.00</td><td>5.48</td><td>31.80</td><td>390</td><td>176 Peak</td><td>HORIZONTAL</td></tr></tbody></table>  No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900588 fax: +86-512-57900958 http://www.sportron.com.cn http://www.sportron.com.cn/  Site : 030H05-K5 Condition : FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL Project : FR891009 Mode : 4 Plane : Z Full-directivity : 3555 6099 0025 235 #2 Powersetting : 18.5 <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2400.00</td><td>105.10</td><td>31.10</td><td>74.00</td><td>99.29</td><td>32.13</td><td>5.48</td><td>31.80</td><td>390</td><td>176 Peak</td><td>HORIZONTAL</td></tr></tbody></table>											Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	2389.82	60.13	-13.87	74.00	54.45	32.00	5.48	31.80	390	176 Peak	HORIZONTAL	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	2400.00	105.10	31.10	74.00	99.29	32.13	5.48	31.80	390	176 Peak	HORIZONTAL
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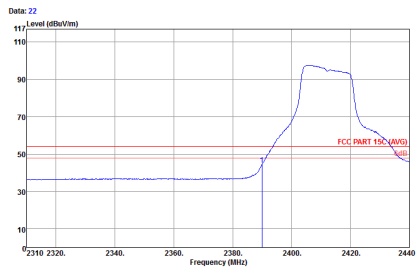
FCC RF Test Report

Report No. : FR891009

Avg.



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tel: +86-512-57900158
fax: +86-512-57900958
http://www.sporton.com.cn <http://www.sporton.com.cn/>

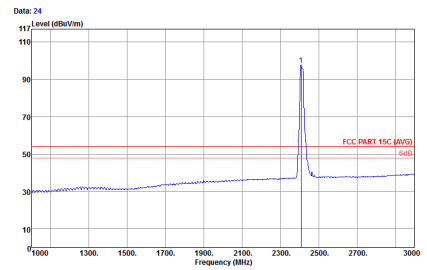


Site : 03DH05-K5
Condition : FCC PART 15C (AVG) 3m 3117 SN 00218602 HORIZONTAL
RBE: 1000, 000kHz VBR: 0, 750kHz SWT: Auto
Project : (FR) 891009
Mode : 2
Plane : 2
Full-directivity :
SOS 090V 0025 Z35 #2
MEI
Powersetting : 18.5

Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas					
Freq	Level	Line	Level	Factor	Loss							
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg					
1	2389.95	44.31	-9.69	54.00	38.63	32.00	5.48	31.80	390	176	Average	HORIZONTAL



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Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas					
Freq	Level	Line	Level	Factor	Loss							
MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg					
1 *	2408.00	97.81	43.81	54.00	92.00	32.13	5.48	31.80	390	176	Average	HORIZONTAL

Sporton International (Kunshan) Inc.

TEL : 86-512-57900158

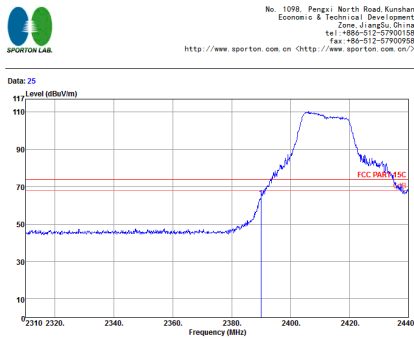
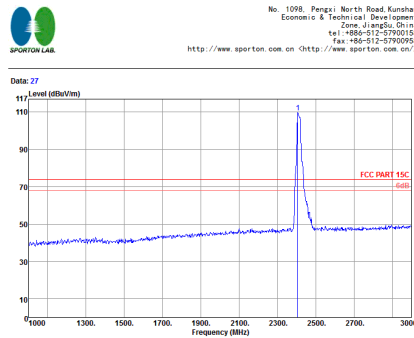
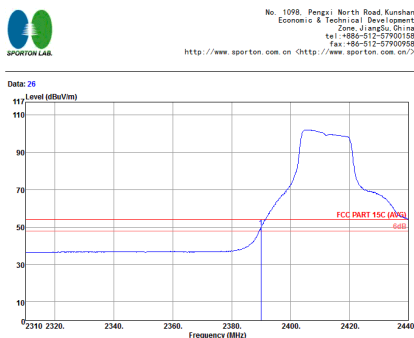
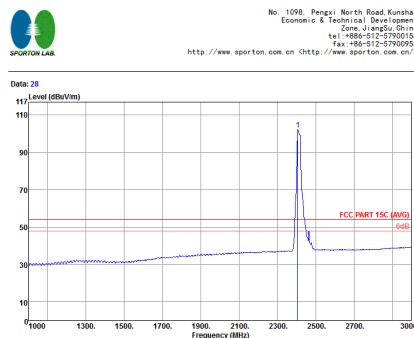
FAX : 86-512-57900958

FCC ID : HDT56XP1

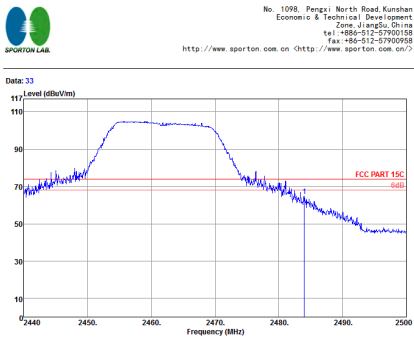
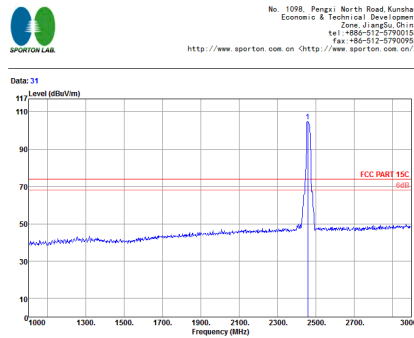
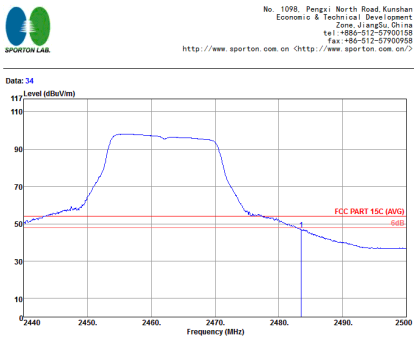
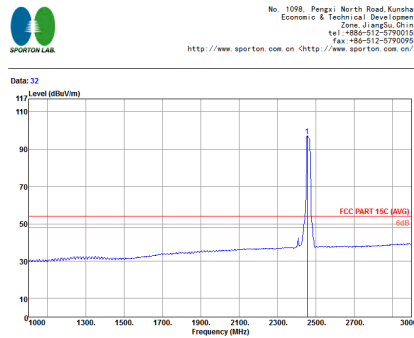
Page Number : B7 of B25

Report Issued Date : Oct. 25, 2018

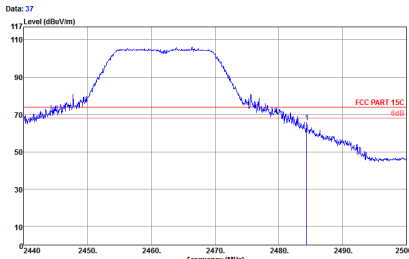
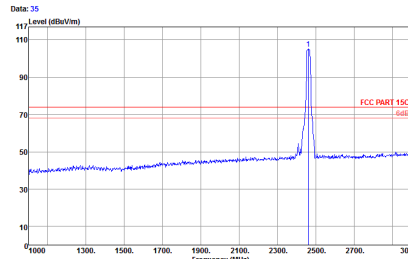
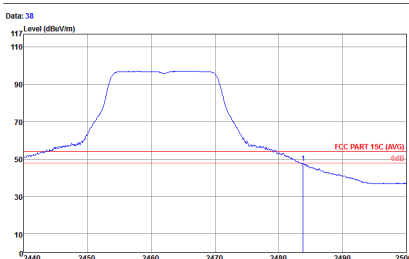
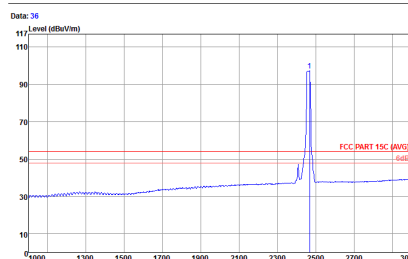
Report Version : Rev. 01

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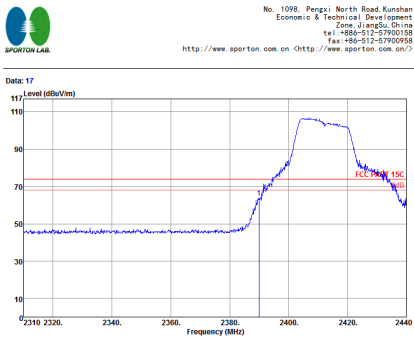
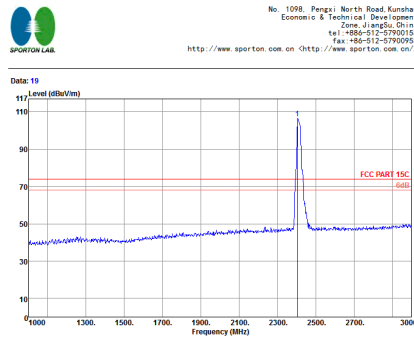


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Peak	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn> Date: 33 Level (dBuV/m) 110 90 70 50 30 10 0 2440 2450 2460 2470 2480 2490 2500 Frequency (MHz) FCC PART 15C -56dB Site Condition: 030H05-KS FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL RBW 1000.000kHz VBW 2000.000kHz SWT Auto Project: FRJ891009 Mode: 0 Plane: 2 Full-directivity 3555 090V 0025 235 #2 IMEI: 10 Powersetting: 10 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBm</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 2483.98</td><td>64.77</td><td>-9.23</td><td>74.00</td><td>58.75</td><td>32.27</td><td>5.55</td><td>31.80</td><td>338 360 Peak</td><td>HORIZONTAL</td></tr></table>  No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn> Date: 31 Level (dBuV/m) 110 90 70 50 30 10 0 1000 1300 1500 1700 1900 2100 2300 2500 2700 3000 Frequency (MHz) FCC PART 15C -56dB Site Condition: 030H05-KS FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL RBW 1000.000kHz VBW 2000.000kHz SWT Auto Project: FRJ891009 Mode: 0 Plane: 2 Full-directivity 3555 090V 0025 235 #2 IMEI: 10 Powersetting: 10 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBm</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 * 2458.00</td><td>105.02</td><td>31.02</td><td>74.00</td><td>98.98</td><td>32.33</td><td>5.51</td><td>31.80</td><td>338 360 Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBm	dB	cm	deg			1 2483.98	64.77	-9.23	74.00	58.75	32.27	5.55	31.80	338 360 Peak	HORIZONTAL	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBm	dB	cm	deg			1 * 2458.00	105.02	31.02	74.00	98.98	32.33	5.51	31.80	338 360 Peak	HORIZONTAL	Avg.	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn> Date: 34 Level (dBuV/m) 110 90 70 50 30 10 0 2440 2450 2460 2470 2480 2490 2500 Frequency (MHz) FCC PART 15C (AVG) -56dB Site Condition: 030H05-KS FCC PART 15C (AVG) 3m 3117 SN 00218652 HORIZONTAL RBW 1000.000kHz VBW 0.750kHz SWT Auto Project: FRJ891009 Mode: 0 Plane: 2 Full-directivity 3555 090V 0025 235 #2 IMEI: 10 Powersetting: 10 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBm</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 2483.50</td><td>47.00</td><td>-7.00</td><td>54.00</td><td>40.98</td><td>32.27</td><td>5.55</td><td>31.80</td><td>338 360 Average</td><td>HORIZONTAL</td></tr></table>  No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn> Date: 32 Level (dBuV/m) 110 90 70 50 30 10 0 1000 1300 1500 1700 1900 2100 2300 2500 2700 3000 Frequency (MHz) FCC PART 15C (AVG) -56dB Site Condition: 030H05-KS FCC PART 15C (AVG) 3m 3117 SN 00218652 HORIZONTAL RBW 1000.000kHz VBW 0.750kHz SWT Auto Project: FRJ891009 Mode: 0 Plane: 2 Full-directivity 3555 090V 0025 235 #2 IMEI: 10 Powersetting: 10 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBm</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1 * 2456.00</td><td>97.23</td><td>43.23</td><td>54.00</td><td>91.19</td><td>32.33</td><td>5.51</td><td>31.80</td><td>338 360 Average</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBm	dB	cm	deg			1 2483.50	47.00	-7.00	54.00	40.98	32.27	5.55	31.80	338 360 Average	HORIZONTAL	Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBm	dB	cm	deg			1 * 2456.00	97.23	43.23	54.00	91.19	32.33	5.51	31.80	338 360 Average	HORIZONTAL
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Peak	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Date: 37  Site : 030H05-KS Condition : FCC PART 15C 3m 3117 SN 00218652 VERTICAL Project : RBW 1000.000kHz VBW 3000.000kHz SMT:Auto Mode : FREQ:971009 Plane : 0 Z : 2 Full-directivity : 3555 0909 0025 235 #2 IMEI : 16 PowerSetting : 10 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamplifier</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 2484.40</td><td>65.81</td><td>-8.19</td><td>74.00</td><td>59.79</td><td>32.27</td><td>5.55</td><td>31.80</td><td>100</td><td>332 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamplifier	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1 2484.40	65.81	-8.19	74.00	59.79	32.27	5.55	31.80	100	332 Peak	VERTICAL	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Date: 35  Site : 030H05-KS Condition : FCC PART 15C 3m 3117 SN 00218652 VERTICAL Project : RBW 1000.000kHz VBW 3000.000kHz SMT:Auto Mode : FREQ:971009 Plane : 0 Z : 2 Full-directivity : 3555 0909 0025 235 #2 IMEI : 16 PowerSetting : 10 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamplifier</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 * 2462.00</td><td>105.31</td><td>31.31</td><td>74.00</td><td>99.27</td><td>32.33</td><td>5.51</td><td>31.80</td><td>100</td><td>332 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamplifier	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1 * 2462.00	105.31	31.31	74.00	99.27	32.33	5.51	31.80	100	332 Peak	VERTICAL
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	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamplifier	A/Pos	T/Pos	Remark	Pol/Phas																																																									
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2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

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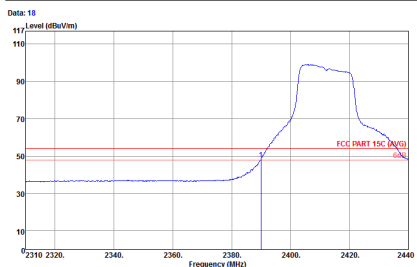
FCC RF Test Report

Report No. : FR891009

Avg.



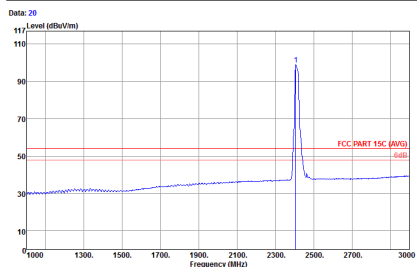
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Zone, Jiangsu, China
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fax: +86-512-57900958
http://www.sporton.com.cn <http://www.sporton.com.cn/>



Site : 03DH05-K5
Condition : FCC PART 15C (AVG) 3m 3117 SN 00218602 HORIZONTAL
RBM:1000, 000KHz VBM:0, 820KHz SWT:Auto
Project : FR891009
Mode : Z
Plane : Z
Full-directivity :
SOS 090V 0025 Z35 #Z
MEI
Powersetting : 18.5
Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas
Freq Level dB dBV/m dB/m dB dB cm deg
1 1 2389.95 48.29 -5.71 54.00 42.61 32.00 5.48 31.80 389 185 Average HORIZONTAL

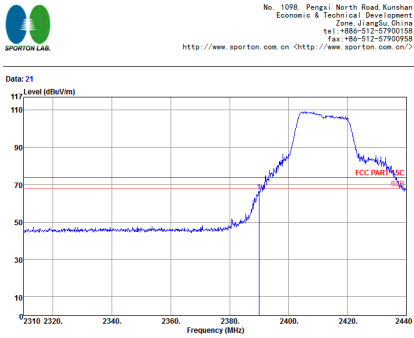
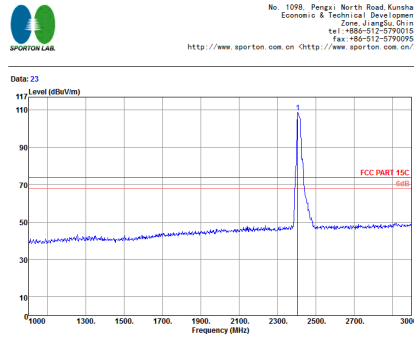
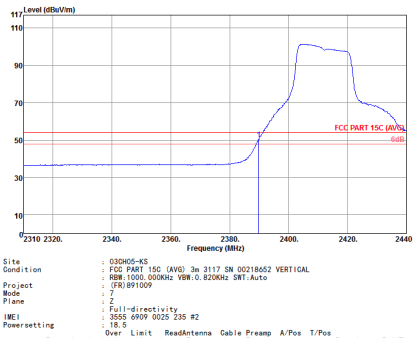


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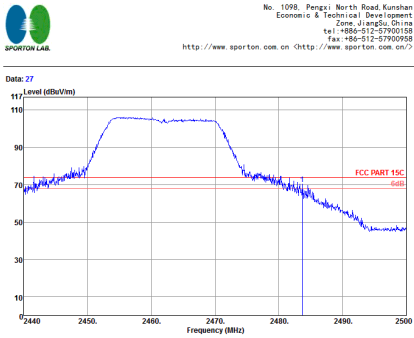
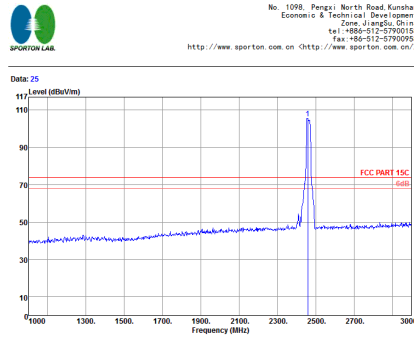
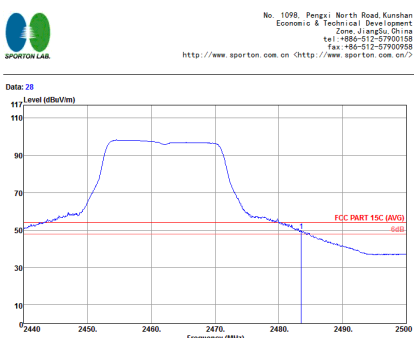
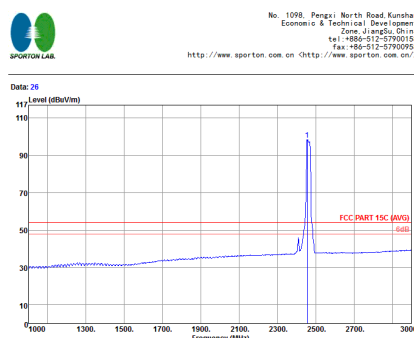


Site : 03DH05-K5
Condition : FCC PART 15C (AVG) 3m 3117 SN 00218602 HORIZONTAL
RBM:1000, 000KHz VBM:0, 820KHz SWT:Auto
Project : FR891009
Mode : Z
Plane : Z
Full-directivity :
SOS 090V 0025 Z35 #Z
MEI
Powersetting : 18.5
Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas
Freq Level dB dBV/m dB/m dB dB cm deg
1 * 2400.00 98.96 44.96 54.00 93.15 32.13 5.48 31.80 389 185 Average HORIZONTAL



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 21 Level (dBuV/m) Frequency (MHz) FCC PART 15C Site Condition Project Mode Plane IMEI Powersetting Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas Freq Level Limit Line Level Factor Loss Factor dB dB on deg 1 2389.95 66.53 -7.47 74.00 60.85 32.00 5.48 31.80 100 22 Peak VERTICAL	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 23 Level (dBuV/m) Frequency (MHz) FCC PART 15C Site Condition Project Mode Plane IMEI Powersetting Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas Freq Level Limit Line Level Factor Loss Factor dB dB on deg 1 2406.00 108.84 34.84 74.00 103.03 32.13 5.48 31.80 100 22 Peak VERTICAL
	Avg.	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 22 Level (dBuV/m) Frequency (MHz) FCC PART 15C (AVG) Site Condition Project Mode Plane IMEI Powersetting Over Limit ReadAntenna Cable Preamp A/Pos T/Pos Remark Pol/Phas Freq Level Limit Line Level Factor Loss Factor dB dB on deg 1 2389.82 50.49 -3.51 54.00 44.81 32.00 5.48 31.80 100 22 Average VERTICAL

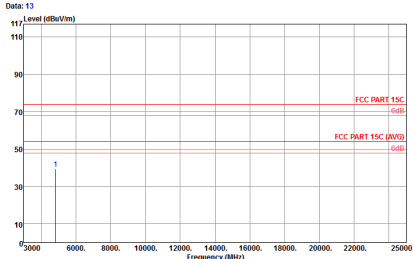
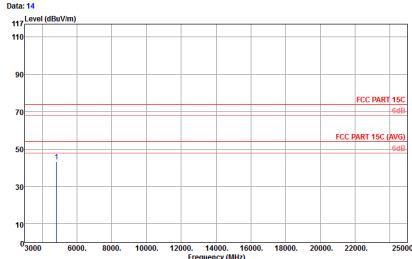


WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m																																																																																																																																						
ANT	802.11n HT20 CH11 2462MHz																																																																																																																																						
1	Vertical	Fundamental																																																																																																																																					
Peak	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 27 Level (dBuV/m) Frequency (MHz) FCC PART 15C Site Condition: 030H05-K5 FCC PART 15C 3m 3117 SN 00218652 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SMT: Auto Project: (FR)891009 Mode: 9 Plane: Z Full-directivity: 3555 6909 0025 235 #2 IMEI: 16 Powersetting: 10 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr><tr><td>1 1</td><td>2483.68</td><td>70.38</td><td>-3.62</td><td>74.00</td><td>64.36</td><td>32.27</td><td>5.55</td><td>31.80</td><td>287</td><td>291 Peak</td></tr></table> VERTICAL  No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 25 Level (dBuV/m) Frequency (MHz) FCC PART 15C Site Condition: 030H05-K5 FCC PART 15C 3m 3117 SN 00218652 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SMT: Auto Project: (FR)891009 Mode: 9 Plane: Z Full-directivity: 3555 6909 0025 235 #2 IMEI: 16 Powersetting: 10 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr><tr><td>1 *</td><td>2458.00</td><td>105.69</td><td>31.69</td><td>74.00</td><td>99.65</td><td>32.33</td><td>5.51</td><td>31.80</td><td>287</td><td>291 Peak</td></tr></table> VERTICAL	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	dB	on	deg	1 1	2483.68	70.38	-3.62	74.00	64.36	32.27	5.55	31.80	287	291 Peak	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	dB	on	deg	1 *	2458.00	105.69	31.69	74.00	99.65	32.33	5.51	31.80	287	291 Peak	Avg.	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 28 Level (dBuV/m) Frequency (MHz) FCC PART 15C (AVG) Site Condition: 030H05-K5 FCC PART 15C (AVG) 3m 3117 SN 00218652 VERTICAL RBW: 1000.000kHz VBW: 0.820kHz SMT: Auto Project: (FR)891009 Mode: 9 Plane: Z Full-directivity: 3555 6909 0025 235 #2 IMEI: 16 Powersetting: 10 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr><tr><td>1 1</td><td>2483.50</td><td>49.60</td><td>-4.40</td><td>54.00</td><td>43.58</td><td>32.27</td><td>5.55</td><td>31.80</td><td>287</td><td>291 Average</td></tr></table> VERTICAL  No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn Date: 26 Level (dBuV/m) Frequency (MHz) FCC PART 15C (AVG) Site Condition: 030H05-K5 FCC PART 15C (AVG) 3m 3117 SN 00218652 VERTICAL RBW: 1000.000kHz VBW: 0.820kHz SMT: Auto Project: (FR)891009 Mode: 9 Plane: Z Full-directivity: 3555 6909 0025 235 #2 IMEI: 16 Powersetting: 10 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr><tr><td>1 *</td><td>2458.00</td><td>98.45</td><td>44.45</td><td>54.00</td><td>92.41</td><td>32.33</td><td>5.51</td><td>31.80</td><td>287</td><td>291 Average</td></tr></table> VERTICAL	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	dB	on	deg	1 1	2483.50	49.60	-4.40	54.00	43.58	32.27	5.55	31.80	287	291 Average	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	dB	on	deg	1 *	2458.00	98.45	44.45	54.00	92.41	32.33	5.51	31.80	287	291 Average
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																																																													
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2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI		2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																								
ANT		802.11b CH01 2412MHz																																																								
1	Horizontal	Vertical																																																								
Peak Avg.	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Date: 13  Site : 030H05-K5 Condition : FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL Project : RBW:1000,000kHz VBW:3000,000kHz SWT:Auto Mode : (FRI)891009 Plane : Z Full-directivity : 1 IMEI : 3555 6909 0025 235 #2 Powersetting : 19.5 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr><tr><td>1 4824.00</td><td>39.35 ~34.65</td><td>74.00</td><td>60.80</td><td>34.20</td><td>8.10</td><td>63.75</td><td>100</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table>	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	on	deg	1 4824.00	39.35 ~34.65	74.00	60.80	34.20	8.10	63.75	100	0 Peak	HORIZONTAL	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Date: 14  Site : 030H05-K5 Condition : FCC PART 15C 3m 3117 SN 00218652 VERTICAL Project : RBW:1000,000kHz VBW:3000,000kHz SWT:Auto Mode : (FRI)891009 Plane : Z Full-directivity : 1 IMEI : 3555 6909 0025 235 #2 Powersetting : 19.5 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>on</th><th>deg</th></tr><tr><td>1 4824.00</td><td>43.22 ~30.78</td><td>74.00</td><td>64.67</td><td>34.20</td><td>8.10</td><td>63.75</td><td>100</td><td>0 Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	on	deg	1 4824.00	43.22 ~30.78	74.00	64.67	34.20	8.10	63.75	100	0 Peak	VERTICAL
	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																	
MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	on	deg																																																		
1 4824.00	39.35 ~34.65	74.00	60.80	34.20	8.10	63.75	100	0 Peak	HORIZONTAL																																																	
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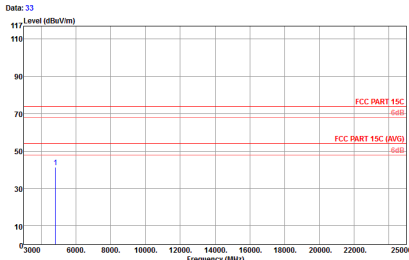
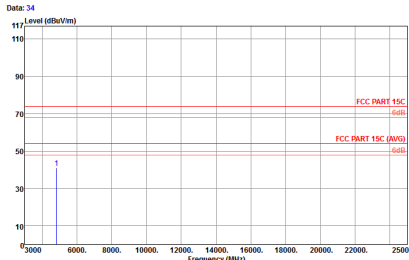
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																
ANT	802.11b CH06 2437MHz																																																																																
1	Horizontal	Vertical																																																																															
Peak Avg.	No. 109B, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57909158 fax: +86-512-57909958 http://www.sporton.com.cn <http://www.sporton.com.cn/> SPORTON LAB. Date: 5 Level (dBuV/m) Frequency (MHz) FCC PART 15C (dBuV/m) FCC PART 15C (AVG) 1 2 Site : 030H05-K5 Condition : FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL Project : RBM 1000.000KHz YBW.2000.000KHz SWT.Auto Mode : (FR)891009 Plane : Z Full-directivity : 3555 0909 0025 Z35 #2 IMEI : Powersetting : 19.5 <table><tr><th>IMEI</th><th>Powersetting</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><td>4872.00</td><td>40.43</td><td>-33.57</td><td>74.00</td><td>61.94</td><td>34.13</td><td>8.09</td><td>63.73</td><td>100</td><td>360 Peak</td><td>HORIZONTAL</td></tr><tr><td>7311.00</td><td>43.74</td><td>-30.26</td><td>74.00</td><td>61.76</td><td>36.60</td><td>9.75</td><td>64.37</td><td>100</td><td>360 Peak</td><td>HORIZONTAL</td></tr></table> No. 109B, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57909158 fax: +86-512-57909958 http://www.sporton.com.cn <http://www.sporton.com.cn/> SPORTON LAB. Date: 6 Level (dBuV/m) Frequency (MHz) FCC PART 15C (dBuV/m) FCC PART 15C (AVG) 1 2 Site : 030H05-K5 Condition : FCC PART 15C 3m 3117 SN 00218652 VERTICAL Project : RBM 1000.000KHz YBW.2000.000KHz SWT.Auto Mode : (FR)891009 Plane : Z Full-directivity : 3555 0909 0025 Z35 #2 IMEI : Powersetting : 19.5 <table><tr><th>IMEI</th><th>Powersetting</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><td>4874.00</td><td>39.60</td><td>-34.40</td><td>74.00</td><td>61.11</td><td>34.13</td><td>8.09</td><td>63.73</td><td>100</td><td>360 Peak</td><td>VERTICAL</td></tr><tr><td>7358.00</td><td>43.07</td><td>-30.93</td><td>74.00</td><td>61.09</td><td>36.60</td><td>9.75</td><td>64.37</td><td>100</td><td>360 Peak</td><td>VERTICAL</td></tr></table>	IMEI	Powersetting	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level	Factor	Loss	Factor		4872.00	40.43	-33.57	74.00	61.94	34.13	8.09	63.73	100	360 Peak	HORIZONTAL	7311.00	43.74	-30.26	74.00	61.76	36.60	9.75	64.37	100	360 Peak	HORIZONTAL	IMEI	Powersetting	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	Freq	Level	Limit	Line	Level	Factor	Loss	Factor		4874.00	39.60	-34.40	74.00	61.11	34.13	8.09	63.73	100	360 Peak	VERTICAL	7358.00	43.07	-30.93	74.00	61.09	36.60	9.75	64.37	100	360 Peak	VERTICAL
IMEI	Powersetting	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																									
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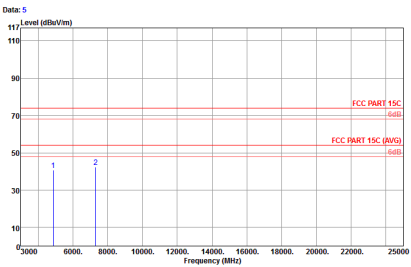
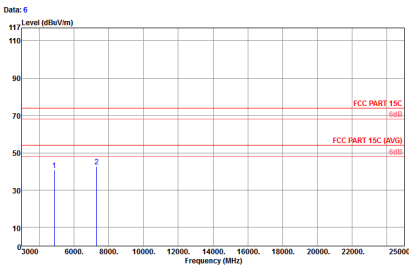
WIFI		2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																											
ANT		802.11b CH11 2462MHz																																																																																											
1	Horizontal	Vertical																																																																																											
Peak Avg.	Site : 030H05-KS Condition : FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL Project : RBM 1000.000KHz YBW.2000.000KHz SWT:Auto Mode : (FR)891009 Plane : Z Full-directivity : 3555 6909 0025 235 #2 Power : 19.5 Power setting : 19.5 <table><tr><th>IMEI</th><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>%</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>4926.00</td><td>38.79</td><td>-35.21</td><td>74.00</td><td>60.34</td><td>34.10</td><td>8.06</td><td>63.71</td><td>100</td><td>360 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7386.00</td><td>43.14</td><td>-30.86</td><td>74.00</td><td>61.21</td><td>36.50</td><td>9.81</td><td>64.38</td><td>100</td><td>360 Peak</td><td>HORIZONTAL</td></tr></table> Site : 030H05-KS Condition : FCC PART 15C 3m 3117 SN 00218652 VERTICAL Project : RBM 1000.000KHz YBW.2000.000KHz SWT:Auto Mode : (FR)891009 Plane : Z Full-directivity : 3555 6909 0025 235 #2 Power : 19.5 Power setting : 19.5 <table><tr><th>IMEI</th><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>%</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>4926.00</td><td>40.04</td><td>-33.96</td><td>74.00</td><td>61.59</td><td>34.10</td><td>8.96</td><td>63.71</td><td>100</td><td>52 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7386.00</td><td>43.02</td><td>-30.98</td><td>74.00</td><td>61.09</td><td>36.50</td><td>9.81</td><td>64.38</td><td>100</td><td>52 Peak</td><td>VERTICAL</td></tr></table>	IMEI	Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	%	dBuV/m	dB	dB	dB	dB	dB		1	4926.00	38.79	-35.21	74.00	60.34	34.10	8.06	63.71	100	360 Peak	HORIZONTAL	2	7386.00	43.14	-30.86	74.00	61.21	36.50	9.81	64.38	100	360 Peak	HORIZONTAL	IMEI	Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas		MHz	dBuV/m	%	dBuV/m	dB	dB	dB	dB	dB		1	4926.00	40.04	-33.96	74.00	61.59	34.10	8.96	63.71	100	52 Peak	VERTICAL	2	7386.00	43.02	-30.98	74.00	61.09	36.50	9.81	64.38	100	52 Peak	VERTICAL
	IMEI	Freq	Level	Over Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																		
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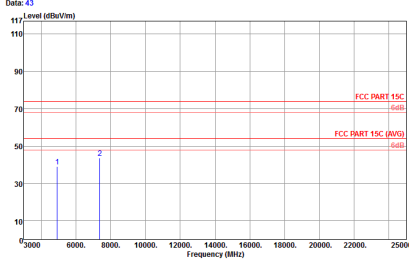
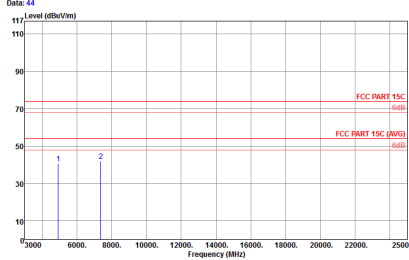
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																														
ANT	802.11g CH01 2412MHz																																																														
1	Horizontal	Vertical																																																													
Peak Avg.	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 33  Site Condition : 03CH05-K5 : FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL : RBM-1000, 0008Hz YBM-3000, 0008Hz SWT.Auto Project : (FR)891009 Mode : 4 Plane : Z Full-directivity : 3555 6909 0025 235 #2 IMEI : Power setting : 18.5 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4824.00</td><td>41.43</td><td>-32.57</td><td>74.00</td><td>62.88</td><td>34.20</td><td>8.10</td><td>63.75</td><td>100</td><td>0</td><td>Peak</td><td>HORIZONTAL</td></tr></table>  No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 34  Site Condition : 03CH05-K5 : FCC PART 15C 3m 3117 SN 00218652 VERTICAL : RBM-1000, 0008Hz YBM-3000, 0008Hz SWT.Auto Project : (FR)891009 Mode : 4 Plane : Z Full-directivity : 3555 6909 0025 235 #2 IMEI : Power setting : 18.5 <table><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4824.00</td><td>41.12</td><td>-32.88</td><td>74.00</td><td>62.57</td><td>34.20</td><td>8.10</td><td>63.75</td><td>100</td><td>360</td><td>Peak</td><td>VERTICAL</td></tr></table>	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg		1	4824.00	41.43	-32.57	74.00	62.88	34.20	8.10	63.75	100	0	Peak	HORIZONTAL	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	cm	deg		1	4824.00	41.12	-32.88	74.00	62.57	34.20	8.10	63.75	100	360	Peak	VERTICAL
	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																						
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WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																									
ANT	802.11g CH06 2437MHz																																																																																									
1	Horizontal	Vertical																																																																																								
Peak Avg.	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 5  Site : 03QHD5-K5 Condition : FCC PART 15C 3m 3117.5M 00218602 HORIZONTAL RSM 1000.000kHz VSW 3000.000kHz SWT Auto Project : FR891009 Mode : 2 Plane : 2 Full-directivity 3555 090V 0025 225 #2 IMEI : Powersetting : 20 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Headroom</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4872.00</td><td>40.66</td><td>-33.34</td><td>74.00</td><td>62.17</td><td>34.13</td><td>8.09</td><td>63.73</td><td>100</td><td>0 Peak HORIZONTAL</td></tr><tr><td>2</td><td>7311.00</td><td>42.29</td><td>-31.71</td><td>74.00</td><td>60.31</td><td>36.60</td><td>9.75</td><td>64.37</td><td>100</td><td>0 Peak HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	Headroom	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg			1	4872.00	40.66	-33.34	74.00	62.17	34.13	8.09	63.73	100	0 Peak HORIZONTAL	2	7311.00	42.29	-31.71	74.00	60.31	36.60	9.75	64.37	100	0 Peak HORIZONTAL	 No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 6  Site : 03QHD5-K5 Condition : FCC PART 15C 3m 3117.5M 00218602 VERTICAL RSM 1000.000kHz VSW 3000.000kHz SWT Auto Project : FR891009 Mode : 2 Plane : 2 Full-directivity 3555 090V 0025 225 #2 IMEI : Powersetting : 20 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Headroom</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4874.00</td><td>40.89</td><td>-33.11</td><td>74.00</td><td>62.40</td><td>34.13</td><td>8.09</td><td>63.73</td><td>100</td><td>0 Peak VERTICAL</td></tr><tr><td>2</td><td>7308.00</td><td>42.82</td><td>-31.18</td><td>74.00</td><td>60.84</td><td>36.60</td><td>9.75</td><td>64.37</td><td>100</td><td>0 Peak VERTICAL</td></tr></table>	Freq	Level	Over	Limit	Headroom	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dB/m	dB	dB	cm	deg			1	4874.00	40.89	-33.11	74.00	62.40	34.13	8.09	63.73	100	0 Peak VERTICAL	2	7308.00	42.82	-31.18	74.00	60.84	36.60	9.75	64.37	100	0 Peak VERTICAL
	Freq	Level	Over	Limit	Headroom	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																															
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1	4874.00	40.89	-33.11	74.00	62.40	34.13	8.09	63.73	100	0 Peak VERTICAL																																																																																
2	7308.00	42.82	-31.18	74.00	60.84	36.60	9.75	64.37	100	0 Peak VERTICAL																																																																																

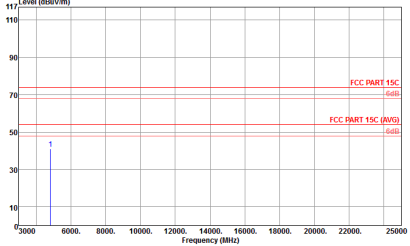
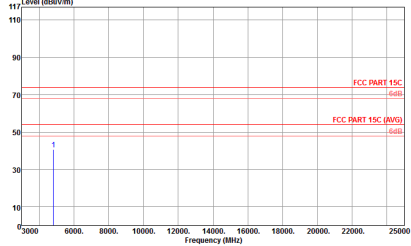


WIFI		2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																																							
ANT		802.11g CH11 2462MHz																																																																																							
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Peak Avg.	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn http://www.sporton.com.cn/7 Data: 43  Site : 03DH05-KS Condition : FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL Project : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Mode : Z Plane : 0 Full-directivity : 3555 6099 0025 235 #2 Powersetting : 10 <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Poi/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>4926.00</td><td>29.27</td><td>-34.73</td><td>74.00</td><td>60.82</td><td>34.10</td><td>8.95</td><td>63.71</td><td>100</td><td>360 Peak HORIZONTAL</td></tr><tr><td>2</td><td>7386.00</td><td>43.73</td><td>-30.27</td><td>74.00</td><td>61.80</td><td>36.50</td><td>9.81</td><td>64.38</td><td>100</td><td>360 Peak HORIZONTAL</td></tr></tbody></table>  No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn http://www.sporton.com.cn/7 Data: 44  Site : 03DH05-KS Condition : FCC PART 15C 3m 3117 SN 00218652 VERTICAL Project : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Mode : Z Plane : 0 Full-directivity : 3555 6099 0025 235 #2 Powersetting : 10 <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Poi/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>4924.00</td><td>40.81</td><td>-32.19</td><td>74.00</td><td>62.35</td><td>34.10</td><td>8.95</td><td>63.71</td><td>100</td><td>0 Peak VERTICAL</td></tr><tr><td>2</td><td>7386.00</td><td>41.95</td><td>-32.05</td><td>74.00</td><td>60.92</td><td>36.50</td><td>9.81</td><td>64.38</td><td>100</td><td>0 Peak VERTICAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Poi/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	4926.00	29.27	-34.73	74.00	60.82	34.10	8.95	63.71	100	360 Peak HORIZONTAL	2	7386.00	43.73	-30.27	74.00	61.80	36.50	9.81	64.38	100	360 Peak HORIZONTAL	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Poi/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	4924.00	40.81	-32.19	74.00	62.35	34.10	8.95	63.71	100	0 Peak VERTICAL	2	7386.00	41.95	-32.05	74.00	60.92	36.50	9.81	64.38	100	0 Peak VERTICAL
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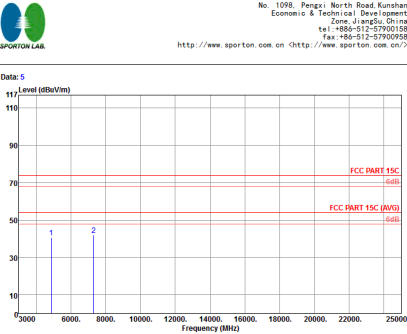
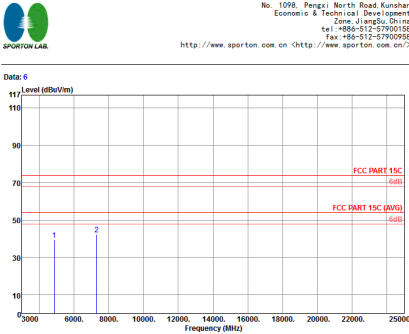


2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m																																																																
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Peak Avg.	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 29  Site Condition : 03CH05-K5 FCC PART 15C 3m 3117 SN 00218652 HORIZONTAL RBW:1000,000KHz VBW:3000,000KHz SMT:Auto Project: (FR)891009 Mode : Z Plane : Z Full-directivity : 3555 6909 0025 235 #2 IMEI : 3555 6909 0025 235 #2 Power setting : 18.5 <table><thead><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBm</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>4824.00</td><td>41.00</td><td>-33.00</td><td>74.00</td><td>62.45</td><td>34.20</td><td>8.10</td><td>63.75</td><td>100</td><td>360</td><td>Peak</td><td>HORIZONTAL</td><td></td></tr></tbody></table>  No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn <http://www.sporton.com.cn/> Data: 30  Site Condition : 03CH05-K5 FCC PART 15C 3m 3117 SN 00218652 VERTICAL RBW:1000,000KHz VBW:3000,000KHz SMT:Auto Project: (FR)891009 Mode : Z Plane : Z Full-directivity : 3555 6909 0025 235 #2 IMEI : 3555 6909 0025 235 #2 Power setting : 18.5 <table><thead><tr><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBm</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>4824.00</td><td>40.89</td><td>-33.11</td><td>74.00</td><td>62.34</td><td>34.20</td><td>8.10</td><td>63.75</td><td>100</td><td>0</td><td>Peak</td><td>VERTICAL</td><td></td></tr></tbody></table>	Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBm	dB	cm	deg		1	4824.00	41.00	-33.00	74.00	62.45	34.20	8.10	63.75	100	360	Peak	HORIZONTAL		Freq	Level	Over Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBm	dB	cm	deg		1	4824.00	40.89	-33.11	74.00	62.34	34.20	8.10	63.75	100	0	Peak	VERTICAL	
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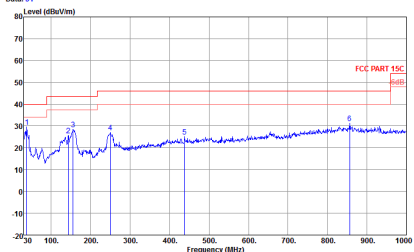
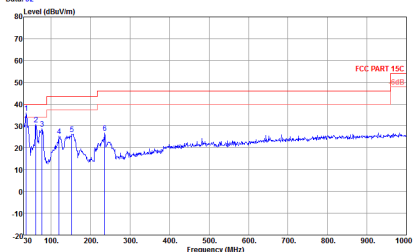
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Peak Avg.	No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57902158 fax: +86-512-57902958 http://www.sporton.com.cn http://www.sporton.com.cn/ Date: 33 Site : 03QHD5-K5 Condition : FCC PART 15C 3m 3117.5N 00218652 HORIZONTAL Project : RSM 1000.000kHz VSW:3000.000kHz SWT:Auto Mode : FR891009 Plane : 2 Full-directivity 3555.000V 0025.225 #2 IMEI : Powersetting : 10 <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>4926.00</td><td>40.15</td><td>-33.85</td><td>74.00</td><td>61.70</td><td>34.10</td><td>8.06</td><td>63.71</td><td>100</td><td>360 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7386.00</td><td>42.79</td><td>-31.22</td><td>74.00</td><td>60.85</td><td>36.50</td><td>9.81</td><td>64.38</td><td>100</td><td>360 Peak</td><td>HORIZONTAL</td></tr></tbody></table>		Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	4926.00	40.15	-33.85	74.00	61.70	34.10	8.06	63.71	100	360 Peak	HORIZONTAL	2	7386.00	42.79	-31.22	74.00	60.85	36.50	9.81	64.38	100	360 Peak	HORIZONTAL	No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57902158 fax: +86-512-57902958 http://www.sporton.com.cn http://www.sporton.com.cn/ Date: 34 Site : 03QHD5-K5 Condition : FCC PART 15C 3m 3117.5N 00218652 VERTICAL Project : RSM 1000.000kHz VSW:3000.000kHz SWT:Auto Mode : FR891009 Plane : 2 Full-directivity 3555.000V 0025.225 #2 IMEI : Powersetting : 10 <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>4926.00</td><td>37.96</td><td>-36.04</td><td>74.00</td><td>59.51</td><td>34.10</td><td>8.06</td><td>63.71</td><td>100</td><td>360 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7386.00</td><td>43.25</td><td>-30.75</td><td>74.00</td><td>61.32</td><td>36.50</td><td>9.81</td><td>64.38</td><td>100</td><td>360 Peak</td><td>VERTICAL</td></tr></tbody></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		1	4926.00	37.96	-36.04	74.00	59.51	34.10	8.06	63.71	100	360 Peak	VERTICAL	2	7386.00	43.25	-30.75	74.00	61.32	36.50	9.81	64.38	100	360 Peak	VERTICAL
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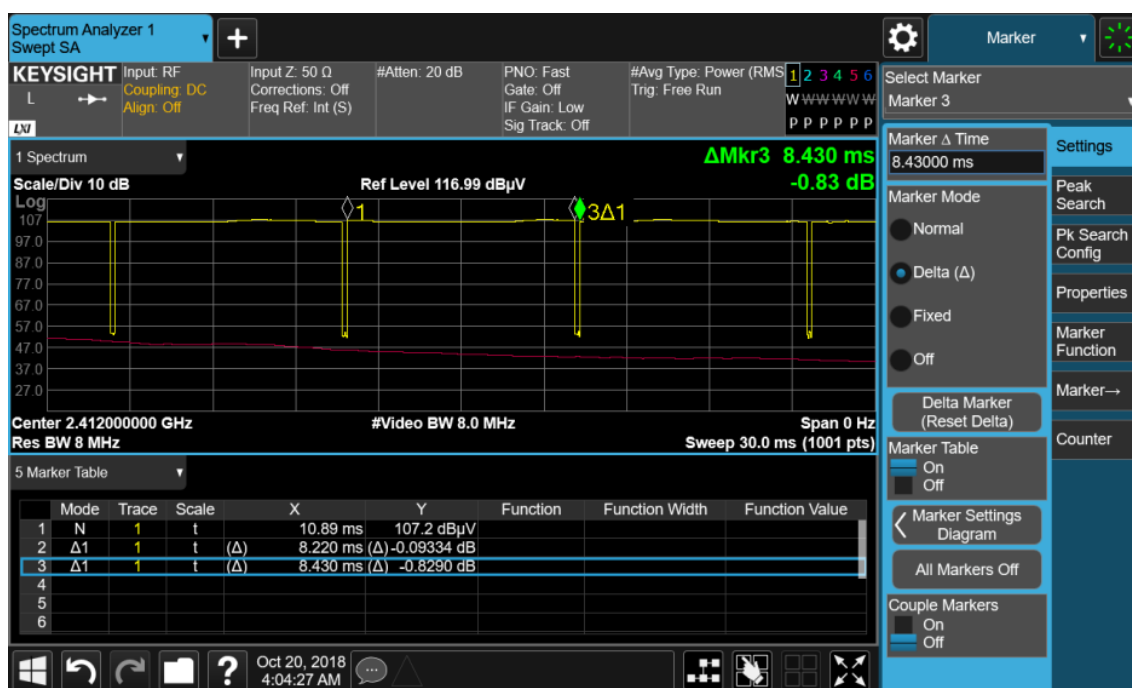
Emission below 1GHz
2.4GHz WIFI 802.11n HT20 (LF)

WIFI	2.4GHz 2400~2483.5MHz																																																																																																																																																																																	
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QP / Peak	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn http://www.sporton.com.cn/? Data: 31  Site : 030H05-KS Condition : FCC PART 15C 3m GBL41120 SN23188 HORIZONTAL Project : RBW:100.000kHz VBW:300.000kHz SMT:Auto Mode : 10 Plane : 2 Full-directivity : 2 Power : 2555 5009 0025 235 #2 Power setting : 18.5 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>37.76</td><td>29.50</td><td>-10.50</td><td>40.00</td><td>41.83</td><td>19.46</td><td>0.71</td><td>32.50</td><td>100</td><td>0 Peak HORIZONTAL</td></tr><tr><td>2</td><td>143.49</td><td>26.74</td><td>-17.76</td><td>43.50</td><td>35.02</td><td>17.01</td><td>1.32</td><td>32.11</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>3</td><td>155.13</td><td>28.55</td><td>-14.95</td><td>43.50</td><td>43.11</td><td>16.16</td><td>1.37</td><td>32.09</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>4</td><td>250.19</td><td>27.08</td><td>-18.92</td><td>46.00</td><td>38.47</td><td>18.66</td><td>1.75</td><td>31.80</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>5</td><td>437.40</td><td>25.06</td><td>-20.94</td><td>46.00</td><td>32.10</td><td>22.38</td><td>2.30</td><td>31.72</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>6</td><td>856.44</td><td>31.30</td><td>-14.70</td><td>46.00</td><td>35.43</td><td>20.33</td><td>3.23</td><td>31.69</td><td>---</td><td>Peak HORIZONTAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg			1	37.76	29.50	-10.50	40.00	41.83	19.46	0.71	32.50	100	0 Peak HORIZONTAL	2	143.49	26.74	-17.76	43.50	35.02	17.01	1.32	32.11	---	Peak HORIZONTAL	3	155.13	28.55	-14.95	43.50	43.11	16.16	1.37	32.09	---	Peak HORIZONTAL	4	250.19	27.08	-18.92	46.00	38.47	18.66	1.75	31.80	---	Peak HORIZONTAL	5	437.40	25.06	-20.94	46.00	32.10	22.38	2.30	31.72	---	Peak HORIZONTAL	6	856.44	31.30	-14.70	46.00	35.43	20.33	3.23	31.69	---	Peak HORIZONTAL	 No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn http://www.sporton.com.cn/? Data: 32  Site : 030H05-KS Condition : FCC PART 15C 3m GBL41120 SN23188 VERTICAL Project : RBW:100.000kHz VBW:300.000kHz SMT:Auto Mode : 10 Plane : 2 Full-directivity : 2 Power : 2555 5009 0025 235 #2 Power setting : 18.5 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>36.79</td><td>36.01</td><td>-3.99</td><td>40.00</td><td>47.87</td><td>20.04</td><td>0.70</td><td>32.60</td><td>110</td><td>15 Peak VERTICAL</td></tr><tr><td>2</td><td>61.04</td><td>30.76</td><td>-9.24</td><td>40.00</td><td>49.16</td><td>12.22</td><td>0.86</td><td>32.40</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>3</td><td>76.56</td><td>28.66</td><td>-11.34</td><td>40.00</td><td>47.33</td><td>12.70</td><td>0.98</td><td>32.35</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>4</td><td>120.21</td><td>25.30</td><td>-18.20</td><td>43.50</td><td>38.65</td><td>18.20</td><td>1.21</td><td>32.16</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>5</td><td>152.22</td><td>26.25</td><td>-17.25</td><td>43.50</td><td>40.01</td><td>16.37</td><td>1.36</td><td>32.09</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>6</td><td>235.64</td><td>26.87</td><td>-19.13</td><td>46.00</td><td>40.04</td><td>16.98</td><td>1.70</td><td>31.95</td><td>---</td><td>Peak VERTICAL</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg			1	36.79	36.01	-3.99	40.00	47.87	20.04	0.70	32.60	110	15 Peak VERTICAL	2	61.04	30.76	-9.24	40.00	49.16	12.22	0.86	32.40	---	Peak VERTICAL	3	76.56	28.66	-11.34	40.00	47.33	12.70	0.98	32.35	---	Peak VERTICAL	4	120.21	25.30	-18.20	43.50	38.65	18.20	1.21	32.16	---	Peak VERTICAL	5	152.22	26.25	-17.25	43.50	40.01	16.37	1.36	32.09	---	Peak VERTICAL	6	235.64	26.87	-19.13	46.00	40.04	16.98	1.70	31.95	---	Peak VERTICAL
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4	250.19	27.08	-18.92	46.00	38.47	18.66	1.75	31.80	---	Peak HORIZONTAL																																																																																																																																																																								
5	437.40	25.06	-20.94	46.00	32.10	22.38	2.30	31.72	---	Peak HORIZONTAL																																																																																																																																																																								
6	856.44	31.30	-14.70	46.00	35.43	20.33	3.23	31.69	---	Peak HORIZONTAL																																																																																																																																																																								
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	Pol/Phas																																																																																																																																																																								
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	cm	deg																																																																																																																																																																										
1	36.79	36.01	-3.99	40.00	47.87	20.04	0.70	32.60	110	15 Peak VERTICAL																																																																																																																																																																								
2	61.04	30.76	-9.24	40.00	49.16	12.22	0.86	32.40	---	Peak VERTICAL																																																																																																																																																																								
3	76.56	28.66	-11.34	40.00	47.33	12.70	0.98	32.35	---	Peak VERTICAL																																																																																																																																																																								
4	120.21	25.30	-18.20	43.50	38.65	18.20	1.21	32.16	---	Peak VERTICAL																																																																																																																																																																								
5	152.22	26.25	-17.25	43.50	40.01	16.37	1.36	32.09	---	Peak VERTICAL																																																																																																																																																																								
6	235.64	26.87	-19.13	46.00	40.04	16.98	1.70	31.95	---	Peak VERTICAL																																																																																																																																																																								

Appendix C. Duty Cycle Plots

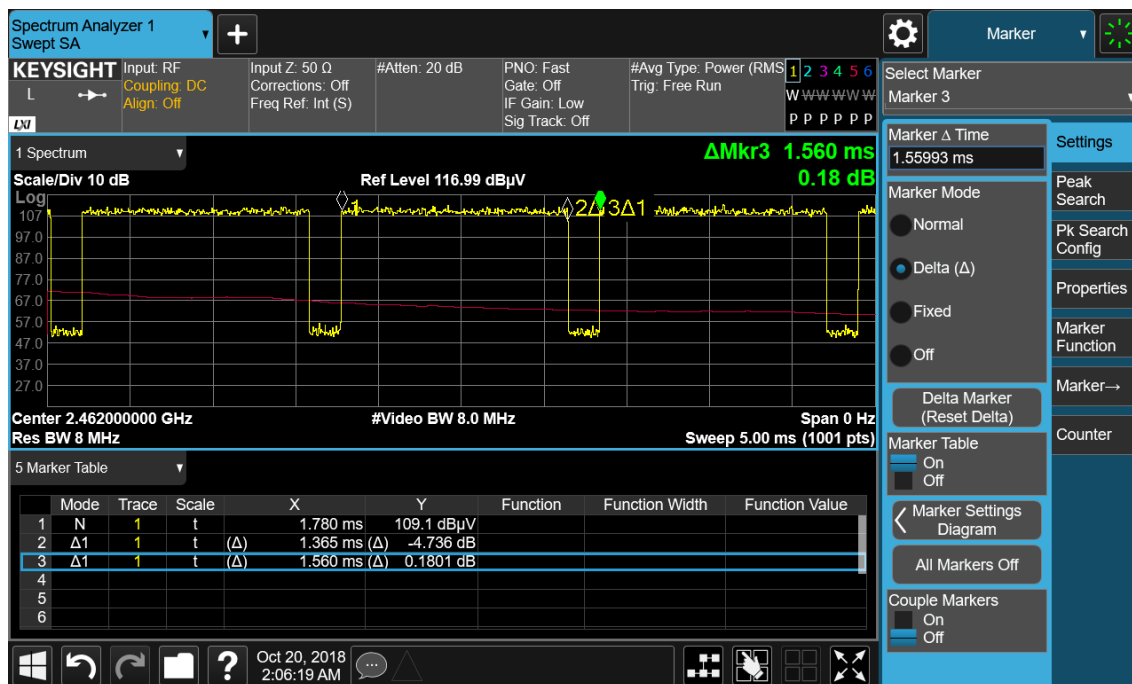
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	97.51	8.220	0.122	0.13KHz
802.11g	87.50	1.365	0.733	0.75KHz
802.11n HT20	86.44	1.275	0.784	0.82KHz

802.11b





802.11g



802.11n HT20

