FCC RF Test Report

APPLICANT : PAX Technology Limited

EQUIPMENT: Smart Tablet

BRAND NAME : PAX
MODEL NAME : Aries6

FCC ID : V5PAR6LITE

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DSS) Spread Spectrum Transmitter

The product was received on Nov. 06, 2019 and testing was completed on Nov. 29, 2019. We, Sporton International (ShenZhen) 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 (ShenZhen) Inc., the test report shall not be reproduced except in full.

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People's Republic of China

Sporton International (Shenzhen) Inc.

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Report No.: FR941109-01A

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR941109-01A	Rev. 01	Initial issue of report	Dec. 19, 2019

Sporton International (Shenzhen) Inc.

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
-	15.247(a)(1)	Number of Channels	≥ 15Chs	Pass	1
-	15.247(a)(1)	Hopping Channel Separation	≥ 2/3 of 20dB BW	Pass	1
-	15.247(a)(1)	Dwell Time of Each Channel	≤ 0.4sec in 31.6sec period	Pass	1
-	15.247(a)(1)	20dB Bandwidth	NA	Pass	1
-	-	99% Bandwidth	-	Pass	1
-	15.247(b)(1)	Peak Output Power	≤ 125 mW	Pass	1
-	15.247(d)	Conducted Band Edges	≤ 20dBc	Pass	1
-	15.247(d)	Conducted Spurious Emission	≤ 20dBc	Pass	1
3.1	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 9.26 dB at 30.000 MHz
3.2	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 9.83 dB at 9.200 MHz
3.3	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

Remark 1: Test items are performed on original report which can be referred to Sporton report number FR941109A.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1 General Description

1.1 Applicant

PAX Technology Limited

Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

1.2 Manufacturer

PAX Computer Technology (Shenzhen) Co., Ltd.

4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.

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1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Smart Tablet
Brand Name	PAX
Model Name	Aries6
FCC ID	V5PAR6LITE
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR / EDR / LE NFC
HW Version	N/A
SW Version	N/A
EUT Stage	Production Unit

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 Frequency Range	2402 MHz ~ 2480 MHz			
Number of Channels	79			
Carrier Frequency of Each Channel	2402+n*1 MHz; n=0~78			
Antenna Type / Gain	Internal Antenna with gain 1.50 dBi			
	Bluetooth BR (1Mbps) : GFSK			
Type of Modulation	Bluetooth EDR (2Mbps) : π /4-DQPSK			
	Bluetooth EDR (3Mbps) : 8-DPSK			

1.5 Modification of EUT

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

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1.6 Re-use of Measured Data

1.6.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: Aries6, FCC ID: V5PAR6LITE) is electrically identical to the reference device (Model: Aries6, FCC ID: V5PAR6) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

1.6.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Product Equality Declaration.

The re-used RF data includes the following bands provided in Appendix E (Sporton RF Report No. FR941109A for the reference device Model: Aries6, FCC ID: V5PAR6).

1.6.3 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test	Report Title/Section
			All sections applicable
DSS (BR/EDR)	V5PAR6	Part15C(FR941109A)	except AC Conducted
			Emission and RSE
			All sections applicable
DTS (BLE)	V5PAR6	Part15C(FR941109B)	except AC Conducted
			Emission and RSE
			All sections applicable
DTS (WLAN)	V5PAR6	Part15C(FR941109C)	except AC Conducted
			Emission and RSE
			All sections applicable
DXX(NFC)	V5PAR6	Part15C(FR941109D)	except AC Conducted
			Emission and RSE

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1.6.4 Spot Check Verification Data Section

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for the following test items, the test result were consistent with FCC ID: V5PAR6.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

Test Item	Mode	V5PAR6 Worst Result	V5PAR6LITE Worst Result	Difference (dB)
	Bluetooth BR	9.90	7.77	-2.13
Peak Conducted	Bluetooth LE	3.70	3.50	-0.20
Power (dBm)	WLAN 802.11b	16.10	15.50	-0.60
	WLAN 802.11a	13.80	13.42	-0.38
Radiated Spurious Emission (Band Edge. Haromic) (dBuV/m)	NFC	36.99	37.13	0.14

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1.7 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Sh	Sporton International (Shenzhen) Inc.				
Test Site Location	518055 People's Republ					
Took Site No	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.			
Test Site No.	CO01-SZ	CN1256	421272			

Test Firm	Sporton International (Shenzhen) Inc.				
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398				
Took Cita No	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.		
Test Site No.	03CH02-SZ	CN1256	421272		

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a
2.	CO01-SZ	AUDIX	E3	6.120613b

1.9 Applicable Standards

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

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

Remark:

- 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.

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2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	0	2402	27	2429	54	2456
	1	2403	28	2430	55	2457
	2	2404	29	2431	56	2458
	3	2405	30	2432	57	2459
	4	2406	31	2433	58	2460
	5	2407	32	2434	59	2461
	6	2408	33	2435	60	2462
	7	2409	34	2436	61	2463
	8	2410	35	2437	62	2464
	9	2411	36	2438	63	2465
	10	2412	37	2439	64	2466
	11	2413	38	2440	65	2467
	12	2414	39	2441	66	2468
2400-2483.5 MHz	13	2415	40	2442	67	2469
	14	2416	41	2443	68	2470
	15	2417	42	2444	69	2471
	16	2418	43	2445	70	2472
	17	2419	44	2446	71	2473
	18	2420	45	2447	72	2474
	19	2421	46	2448	73	2475
	20	2422	47	2449	74	2476
	21	2423	48	2450	75	2477
	22	2424	49	2451	76	2478
	23	2425	50	2452	77	2479
	24	2426	51	2453	78	2480
	25	2427	52	2454	-	-
	26	2428	53	2455	-	-

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2.2 Test Mode

- a. 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: conduction emission (150 kHz to 30 MHz), 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 (X plane) were recorded in this report, and the worst mode of radiated spurious emissions is Bluetooth 1Mbps mode, and recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Summary table of Test Cases						
	Data Rate / Modulation						
Test Item	Bluetooth BR 1Mbps	Bluetooth EDR 2Mbps	Bluetooth EDR 3Mbps				
	GFSK	π/4-DQPSK	8-DPSK				
Conducted	Mode 1: CH00_2402 MHz	Mode 4: CH00_2402 MHz	Mode 7: CH00_2402 MHz				
	Mode 2: CH39_2441 MHz	Mode 5: CH39_2441 MHz	Mode 8: CH39_2441 MHz				
Test Cases	Mode 3: CH78_2480 MHz	Mode 6: CH78_2480 MHz	Mode 9: CH78_2480 MHz				
	Bluetooth BR 1Mbps GFSK						
		Bidetootii Bit Tilibps Of Oit					
Radiated		Mode 1: CH00_2402 MHz					
Radiated Test Cases							
		Mode 1: CH00_2402 MHz					
		Mode 1: CH00_2402 MHz Mode 2: CH39_2441 MHz Mode 3: CH78_2480 MHz					
Test Cases		Mode 1: CH00_2402 MHz Mode 2: CH39_2441 MHz	le(Charging from Adapter) +				
Test Cases	Mode 1 : Bluetooth Link + V Earphone	Mode 1: CH00_2402 MHz Mode 2: CH39_2441 MHz Mode 3: CH78_2480 MHz	le(Charging from Adapter) +				

Remark:

- 1. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.
- 2. For Radiated Test Cases, The tests were performed with Adapter, Earphone and USB Cable.

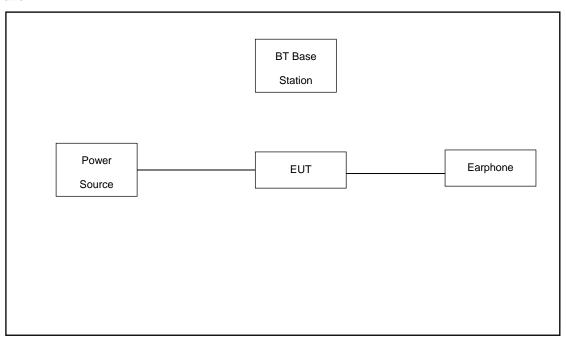
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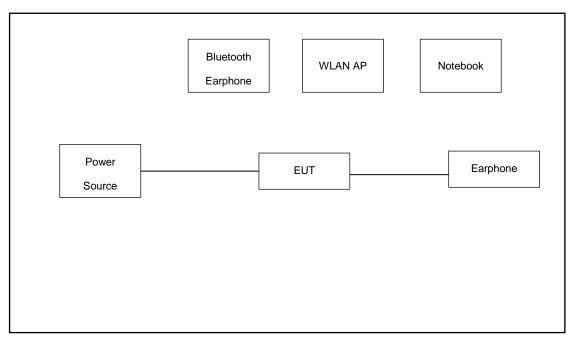
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2.3 Connection Diagram of Test System

For Radiation



For Conducted Emission



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2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
2.	Notebook	FCC DoC	FCC DoC	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A

2.5 EUT Operation Test Setup

For Bluetooth function, the engineering test program was provided and enabled to make EUT connect with Bluetooth base station to continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

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3 Test Result

3.1 Radiated Band Edges and Spurious Emission Measurement

3.1.1 Limit of Radiated Band Edges and Spurious Emission

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. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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.

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3.1.3 Test Procedures

- 1. 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.
- 1. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 2. For each suspected emission, 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 to comply with the guidelines.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. 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, RBW=1MHz for f>1GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).

Duty cycle = On time/100 milliseconds

On time = $N_1*L_1+N_2*L_2+...+N_{n-1}*LN_{n-1}+N_n*L_n$

Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.

Average Emission Level = Peak Emission Level + 20*log(Duty cycle)

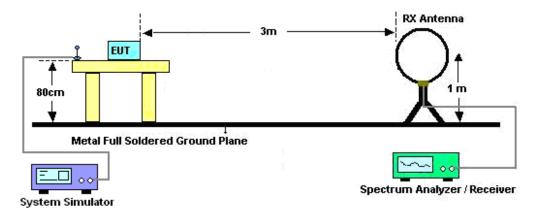
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using 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.

Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.79dB) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

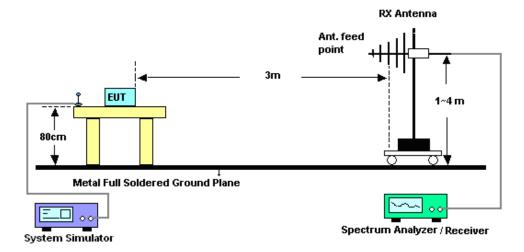
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3.1.4 Test Setup

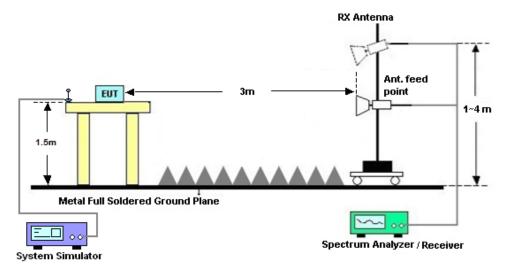
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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 B.

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

Please refer to Appendix B.

3.1.8 Duty cycle correction factor for average measurement

Please refer to Appendix C.

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3.2 AC Conducted Emission Measurement

3.2.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Eroquency of emission (MUz)	Conducted	limit (dΒμV)
Frequency of emission (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

3.2.2 Measuring Instruments

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

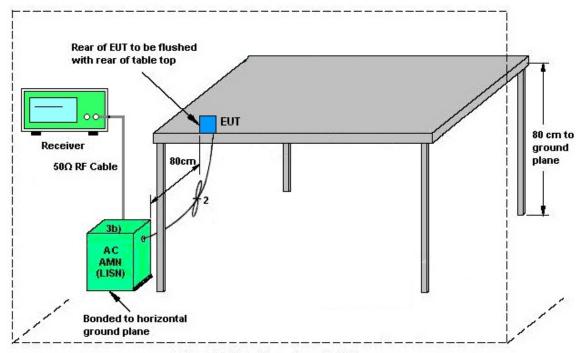
3.2.3 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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3.2.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

3.2.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

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3.3 Antenna Requirements

3.3.1 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.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 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.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 13	10Hz~44GHz	Apr. 19, 2019	Nov. 29, 2019	Apr. 18, 2020	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 29, 2018	Nov. 29, 2019	May 28, 2020	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 19, 2019	Nov. 29, 2019	Jul. 18, 2020	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-128 5	1GHz~18GHz	Jan. 07, 2019	Nov. 29, 2019	Jan. 06, 2020	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz	Jul. 22, 2019	Nov. 29, 2019	Jul. 21, 2020	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 18, 2019	Nov. 29, 2019	Apr. 17, 2020	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2019	Nov. 29, 2019	Oct. 17, 2020	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 18, 2019	Nov. 29, 2019	Oct. 17, 2020	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY532701 05	0.5GHz~26.5Gh z	Oct. 18, 2019	Nov. 29, 2019	Oct. 17, 2020	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002 470	N/A	NCR	Nov. 29, 2019	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Nov. 29, 2019	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Nov. 29, 2019	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 23, 2018	Nov. 21, 2019	Dec. 22, 2019	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Oct. 17, 2019	Nov. 21, 2019	Oct. 16, 2020	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Dec. 23, 2018	Nov. 21, 2019	Dec. 22, 2019	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Jul. 23, 2019	Nov. 21, 2019	Jul. 22, 2020	Conduction (CO01-SZ)

NCR: No Calibration Required

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5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

<u>Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of Confidence	2.6dB
of 95% (U = 2Uc(y))	2.0UB

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

Manager and the contribute formal and a form	
Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	3.VQB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	5.00B

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

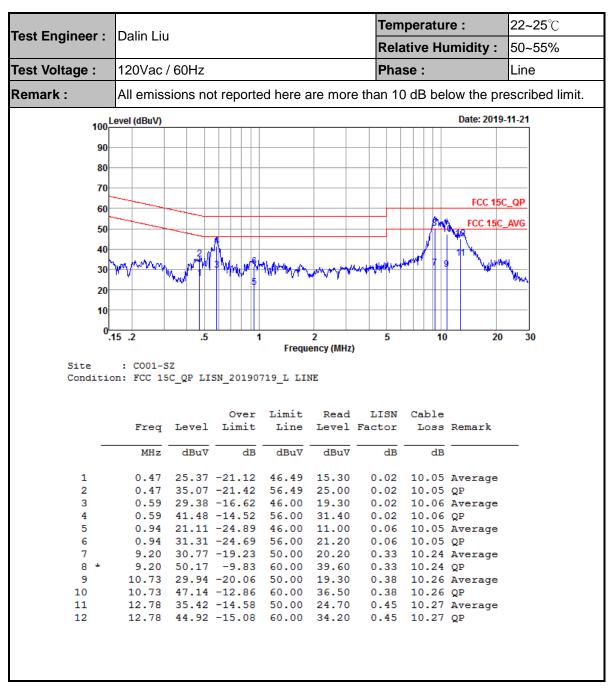
	-
Measuring Uncertainty for a Level of Confidence	4.4dB
of 95% (U = 2Uc(y))	4.4ub

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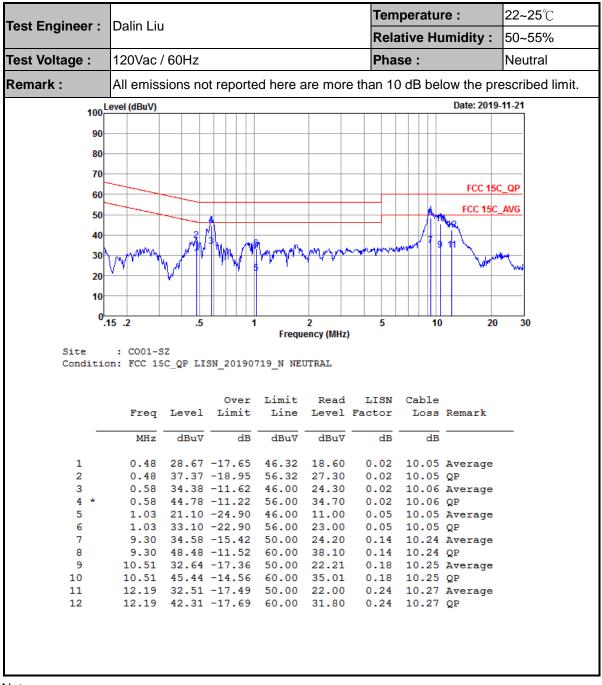
Appendix A. AC Conducted Emission Test Results



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Note:

- Level(dB μ V) = Read Level(dB μ V) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB μ V) Limit Line(dB μ V)

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Appendix B. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

ВТ	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol
	11010	Troquency		Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	. 0
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)		(P/A)	(H/V)
		2387.07	41.61	-32.39	74	39.17	27.7	7.54	32.8	187	27	Р	Н
		2387.07	16.82	-37.18	54	-	-	-	-	187	27	Α	Н
D.T.	*	2402	94.88	-	-	92.42	27.7	7.54	32.78	187	27	Р	Н
BT CH00	*	2402	70.09	-	-	-	-	-	-	187	27	Α	I
2402MHz		2339.29	41.98	-32.02	74	39.42	27.9	7.48	32.82	114	246	Р	V
2402WII 12		2339.29	17.19	-36.81	54	-	-	-	-	114	246	Α	V
	*	2402	98.31	-	-	95.85	27.7	7.54	32.78	114	246	Р	٧
	*	2402	73.52	-	-	-	-	-	-	114	246	Α	٧
		2361.24	41.48	-32.52	74	38.96	27.83	7.51	32.82	102	160	Р	Н
		2361.24	16.69	-37.31	54	-	-	-	-	102	160	Α	Н
	*	2441	96.11	-	-	93.71	27.6	7.54	32.74	102	160	Р	Н
	*	2441	71.32	-	-	-	-	-	-	102	160	Α	Н
		2489.01	40.88	-33.12	74	38.67	27.4	7.53	32.72	102	160	Р	Н
BT		2489.01	16.09	-37.91	54	-	-	-	-	102	160	Α	Н
CH 39 2441MHz		2389.52	42.3	-31.7	74	39.86	27.7	7.54	32.8	100	247	Р	V
244 I WIF12		2389.52	17.51	-36.49	54	-	-	-	-	100	247	Α	V
	*	2441	99.22	-	-	96.82	27.6	7.54	32.74	100	247	Р	V
	*	2441	74.43	-	-	-	-	-	-	100	247	Α	V
		2487.33	42.67	-31.33	74	40.39	27.47	7.53	32.72	100	247	Р	V
		2487.33	17.88	-36.12	54	-	-	-	-	100	247	Α	V

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İ		Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
			Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
	(MHz)	($dB\mu V/m$)	(dB)	($dB\mu V/m$)	($dB\mu V$)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
*	2480	95.36	-	-	93.08	27.47	7.53	32.72	145	24	Р	Н
*	2480	70.57	-	-	-	-	-	-	145	24	Α	Н
	2483.68	43.24	-30.76	74	40.96	27.47	7.53	32.72	145	24	Р	Н
	2483.68	18.45	-35.55	54	-	-	-	-	145	24	Α	Н
*	2480	96.46	-	-	94.18	27.47	7.53	32.72	100	247	Р	V
*	2480	71.67	-	-	-	-	-	-	100	247	Α	V
	2483.68	45.23	-28.77	74	42.95	27.47	7.53	32.72	100	247	Р	V
	2483.68	20.44	-33.56	54	-	-	-	-	100	247	Α	V
**	:	2480 2480 2483.68 2483.68 2480 2483.68	2480 95.36 2480 70.57 2483.68 43.24 2483.68 18.45 2480 96.46 2480 71.67 2483.68 45.23	2480 95.36 - 2480 70.57 - 2483.68 43.24 -30.76 2483.68 18.45 -35.55 2480 96.46 - 2483.68 45.23 -28.77	2480 95.36 - - 2480 70.57 - - 2483.68 43.24 -30.76 74 2483.68 18.45 -35.55 54 2480 96.46 - - 2480 71.67 - - 2483.68 45.23 -28.77 74	2480 95.36 - - 93.08 2480 70.57 - - - 2483.68 43.24 -30.76 74 40.96 2483.68 18.45 -35.55 54 - 2480 96.46 - - 94.18 2483.68 45.23 -28.77 74 42.95	2480 95.36 - - 93.08 27.47 2480 70.57 - - - - 2483.68 43.24 -30.76 74 40.96 27.47 2483.68 18.45 -35.55 54 - - 2480 96.46 - - 94.18 27.47 2483.68 45.23 -28.77 74 42.95 27.47	2480 95.36 - - 93.08 27.47 7.53 2480 70.57 - - - - - - 2483.68 43.24 -30.76 74 40.96 27.47 7.53 2483.68 18.45 -35.55 54 - - - 2480 96.46 - - 94.18 27.47 7.53 2483.68 45.23 -28.77 74 42.95 27.47 7.53	2480 95.36 - - 93.08 27.47 7.53 32.72 2480 70.57 - - - - - - 2483.68 43.24 -30.76 74 40.96 27.47 7.53 32.72 2483.68 18.45 -35.55 54 - - - - 2480 96.46 - - 94.18 27.47 7.53 32.72 2483.68 45.23 -28.77 74 42.95 27.47 7.53 32.72	2480 95.36 - - 93.08 27.47 7.53 32.72 145 2480 70.57 - - - - - - 145 2483.68 43.24 -30.76 74 40.96 27.47 7.53 32.72 145 2483.68 18.45 -35.55 54 - - - - 145 2480 96.46 - - 94.18 27.47 7.53 32.72 100 2483.68 45.23 -28.77 74 42.95 27.47 7.53 32.72 100	2480 95.36 - - 93.08 27.47 7.53 32.72 145 24 2480 70.57 - - - - - - 145 24 2483.68 43.24 -30.76 74 40.96 27.47 7.53 32.72 145 24 2483.68 18.45 -35.55 54 - - - - 145 24 2480 96.46 - - 94.18 27.47 7.53 32.72 100 247 2483.68 45.23 -28.77 74 42.95 27.47 7.53 32.72 100 247	2480 95.36 - - 93.08 27.47 7.53 32.72 145 24 P 2480 70.57 - - - - - - 145 24 A 2483.68 43.24 -30.76 74 40.96 27.47 7.53 32.72 145 24 P 2483.68 18.45 -35.55 54 - - - - 145 24 A 2480 96.46 - - 94.18 27.47 7.53 32.72 100 247 P 2483.68 45.23 -28.77 74 42.95 27.47 7.53 32.72 100 247 P

Remark

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No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

2.4GHz 2400~2483.5MHz

BT (Harmonic @ 3m)

ВТ	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	($dB\mu V$)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
DT		4804	42.52	-31.48	74	61.6	31.1	9.86	60.04	151	219	Р	Н
BT CH 00		4804	17.73	-36.27	54	-	-	-	-	151	219	Α	Н
2402MHz		4804	39.53	-34.47	74	58.61	31.1	9.86	60.04	151	219	Р	V
2402WII 12		4804	14.74	-39.26	54	ı		-		151	219	Α	V
		4882	40.7	-33.3	74	59.7	31.13	9.9	60.03	150	258	Р	Н
		4882	15.91	-38.09	54	-	-	-	-	150	258	Α	Н
DT		7323	46.31	-27.69	74	58.55	36.4	11.88	60.52	152	309	Р	Н
BT CH 39		7323	21.52	-32.48	54	-	-	-	-	152	309	Α	Н
2441MHz		4882	39.3	-34.7	74	58.3	31.13	9.9	60.03	150	258	Р	V
244 WII 12		4882	14.51	-39.49	54	-	-	-	-	150	258	Α	V
		7323	46.56	-27.44	74	58.8	36.4	11.88	60.52	152	309	Р	V
		7323	21.77	-32.23	54	-	-	-	-	152	309	Α	V
		4960	44.94	-29.06	74	63.65	31.37	9.93	60.01	118	289	Р	Н
		4960	20.15	-33.85	54	-	-	-	-	118	289	Α	Н
DT		7440	45.53	-28.47	74	57.54	36.5	12.03	60.54	158	273	Р	Н
BT CH 70		7440	20.74	-33.26	54	-	-	-	-	158	273	Α	Н
CH 78 2480MHz		4960	41.54	-32.46	74	60.25	31.37	9.93	60.01	118	289	Р	V
2400WII 12		4960	16.75	-37.25	54	-	-	-	-	118	289	Α	V
		7440	45.1	-28.9	74	57.11	36.5	12.03	60.54	158	273	Р	V
		7440	20.31	-33.69	54	-	-	-	-	158	273	Α	٧

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Emission below 1GHz

2.4GHz BT (LF)

MHz) ((dBµV/m)	Limit (dB)	Line	Level							
	(dBµV/m)	(4B)		LCVCI	Factor	Loss	Factor	Pos	Pos	Avg.	
30		(ub)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	23.06	-16.94	40	30.2	24.8	0.56	32.5	100	111	Р	Н
33.79	22.54	-20.96	43.5	35.77	17.47	1.2	31.9	-	-	Р	Н
40.49	24.92	-21.08	46	37.46	17.64	1.62	31.8	-	-	Р	Н
03.45	24.73	-21.27	46	32.41	21.88	2.13	31.69	-	-	Р	Н
02.39	26.47	-19.53	46	31.71	23.94	2.4	31.58	-	-	Р	I
76.72	29.4	-24.6	54	27.13	30.23	3.44	31.4	-	-	Р	I
30	30.74	-9.26	40	36.68	24.8	0.56	31.3	100	0	Р	7
30.44	23.4	-16.6	40	40.67	13.4	0.93	31.6	-	-	Р	V
28.94	28.03	-15.47	43.5	40.91	17.44	1.17	31.49	-	-	Р	V
60.86	20.94	-25.06	46	30.55	20.33	1.69	31.63	-	-	Р	V
21.79	27.44	-18.56	46	31.93	24.31	2.45	31.25	-	-	Р	V
96.12	29.29	-24.71	54	26.49	30.54	3.47	31.21	-	-	Р	V
((()	40.49 03.45 02.39 76.72 30 60.44 28.94 60.86 21.79	40.49 24.92 03.45 24.73 02.39 26.47 76.72 29.4 30 30.74 60.44 23.4 28.94 28.03 60.86 20.94 21.79 27.44	40.49 24.92 -21.08 03.45 24.73 -21.27 02.39 26.47 -19.53 76.72 29.4 -24.6 30 30.74 -9.26 60.44 23.4 -16.6 28.94 28.03 -15.47 60.86 20.94 -25.06 21.79 27.44 -18.56	40.49 24.92 -21.08 46 03.45 24.73 -21.27 46 02.39 26.47 -19.53 46 76.72 29.4 -24.6 54 30 30.74 -9.26 40 30.44 23.4 -16.6 40 28.94 28.03 -15.47 43.5 60.86 20.94 -25.06 46 21.79 27.44 -18.56 46	40.49 24.92 -21.08 46 37.46 03.45 24.73 -21.27 46 32.41 02.39 26.47 -19.53 46 31.71 76.72 29.4 -24.6 54 27.13 30 30.74 -9.26 40 36.68 30.44 23.4 -16.6 40 40.67 28.94 28.03 -15.47 43.5 40.91 60.86 20.94 -25.06 46 30.55 21.79 27.44 -18.56 46 31.93	40.49 24.92 -21.08 46 37.46 17.64 03.45 24.73 -21.27 46 32.41 21.88 02.39 26.47 -19.53 46 31.71 23.94 76.72 29.4 -24.6 54 27.13 30.23 30 30.74 -9.26 40 36.68 24.8 30.44 23.4 -16.6 40 40.67 13.4 28.94 28.03 -15.47 43.5 40.91 17.44 60.86 20.94 -25.06 46 30.55 20.33 21.79 27.44 -18.56 46 31.93 24.31	40.49 24.92 -21.08 46 37.46 17.64 1.62 03.45 24.73 -21.27 46 32.41 21.88 2.13 02.39 26.47 -19.53 46 31.71 23.94 2.4 76.72 29.4 -24.6 54 27.13 30.23 3.44 30 30.74 -9.26 40 36.68 24.8 0.56 30.44 23.4 -16.6 40 40.67 13.4 0.93 28.94 28.03 -15.47 43.5 40.91 17.44 1.17 60.86 20.94 -25.06 46 30.55 20.33 1.69 21.79 27.44 -18.56 46 31.93 24.31 2.45	40.49 24.92 -21.08 46 37.46 17.64 1.62 31.8 03.45 24.73 -21.27 46 32.41 21.88 2.13 31.69 02.39 26.47 -19.53 46 31.71 23.94 2.4 31.58 76.72 29.4 -24.6 54 27.13 30.23 3.44 31.4 30 30.74 -9.26 40 36.68 24.8 0.56 31.3 40.44 23.4 -16.6 40 40.67 13.4 0.93 31.6 28.94 28.03 -15.47 43.5 40.91 17.44 1.17 31.49 60.86 20.94 -25.06 46 30.55 20.33 1.69 31.63 21.79 27.44 -18.56 46 31.93 24.31 2.45 31.25	40.49 24.92 -21.08 46 37.46 17.64 1.62 31.8 - 03.45 24.73 -21.27 46 32.41 21.88 2.13 31.69 - 02.39 26.47 -19.53 46 31.71 23.94 2.4 31.58 - 76.72 29.4 -24.6 54 27.13 30.23 3.44 31.4 - 30 30.74 -9.26 40 36.68 24.8 0.56 31.3 100 40.44 23.4 -16.6 40 40.67 13.4 0.93 31.6 - 28.94 28.03 -15.47 43.5 40.91 17.44 1.17 31.49 - 60.86 20.94 -25.06 46 30.55 20.33 1.69 31.63 - 21.79 27.44 -18.56 46 31.93 24.31 2.45 31.25 -	40.49 24.92 -21.08 46 37.46 17.64 1.62 31.8 - - 03.45 24.73 -21.27 46 32.41 21.88 2.13 31.69 - - 02.39 26.47 -19.53 46 31.71 23.94 2.4 31.58 - - 76.72 29.4 -24.6 54 27.13 30.23 3.44 31.4 - - 30 30.74 -9.26 40 36.68 24.8 0.56 31.3 100 0 40.44 23.4 -16.6 40 40.67 13.4 0.93 31.6 - - 28.94 28.03 -15.47 43.5 40.91 17.44 1.17 31.49 - - 60.86 20.94 -25.06 46 30.55 20.33 1.69 31.63 - - 21.79 27.44 -18.56 46 31.93 24.31 2.45 31.25 - -	40.49 24.92 -21.08 46 37.46 17.64 1.62 31.8 - - P 03.45 24.73 -21.27 46 32.41 21.88 2.13 31.69 - - P 02.39 26.47 -19.53 46 31.71 23.94 2.4 31.58 - - P 76.72 29.4 -24.6 54 27.13 30.23 3.44 31.4 - - P 30 30.74 -9.26 40 36.68 24.8 0.56 31.3 100 0 P 30.44 23.4 -16.6 40 40.67 13.4 0.93 31.6 - - P 28.94 28.03 -15.47 43.5 40.91 17.44 1.17 31.49 - - P 60.86 20.94 -25.06 46 30.55 20.33 1.69 31.63 - - P 21.79 27.44 -18.56 46 31.93 24.31 2.45 31

Remark

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^{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 over limit line.						
P/A	Peak or Average						
H/V	Horizontal or Vertical						

Sporton International (Shenzhen) Inc.

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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.	
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dB _µ V)	(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	Р	Н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	Α	Н

1. Level($dB\mu V/m$) =

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

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

For Peak Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dBµV/m) Limit Line(dBµV/m)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

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

Sporton International (Shenzhen) Inc.

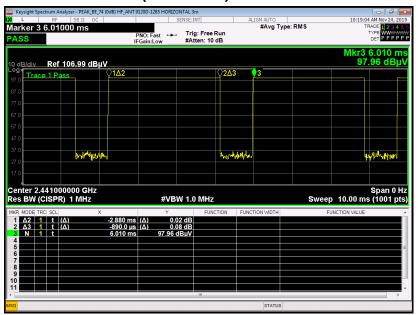
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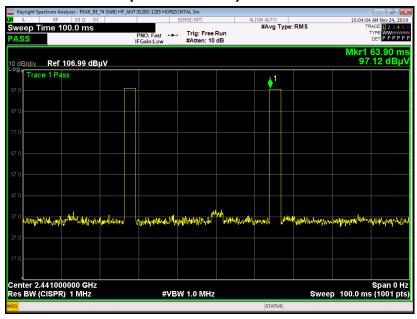


Appendix C. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 39



DH5 on time (Count Pulses) Plot on Channel 39



Note:

- 1. Worst case Duty cycle = on time/100 milliseconds = $2 \times 2.88 / 100 = 5.76 \%$
- 2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.79 dB
- 3. DH5 has the highest duty cycle worst case and is reported.

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Appendix E. Reference Report

Please refer to Sporton report number FR941109A which is issued separately.

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