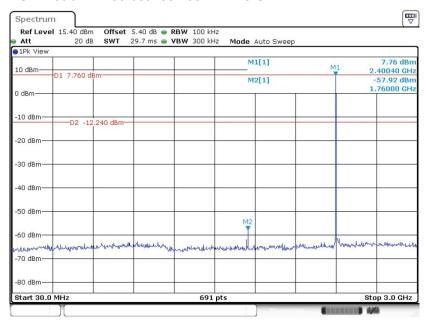
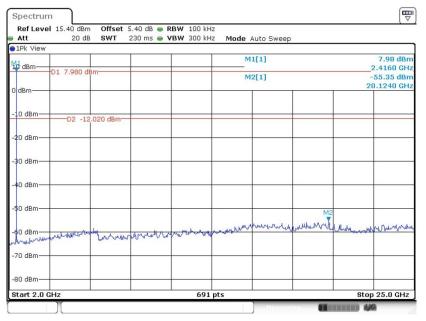
### <2Mbps>

### CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 26.FEB.2020 11:13:00

#### CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



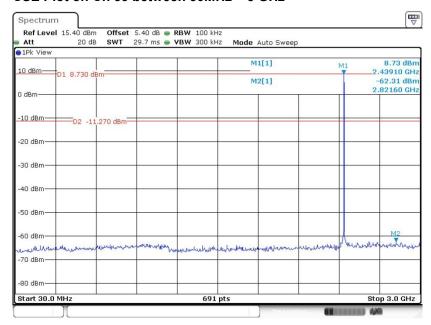
Date: 26.FEB.2020 11:13:31

Sporton International (Shenzhen) Inc.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 40 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

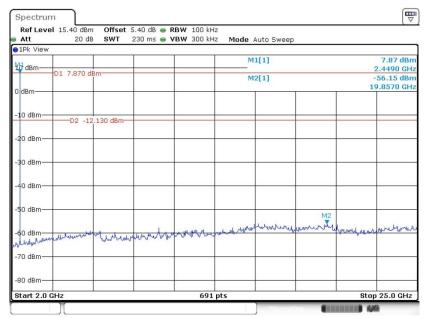
Report No.: FR9D3105A

### CSE Plot on Ch 39 between 30MHz ~ 3 GHz



Date: 26.FEB.2020 11:15:10

### CSE Plot on Ch 39 between 2 GHz ~ 25 GHz

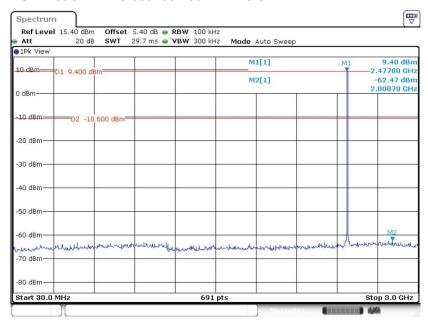


Date: 26.FEB.2020 11:16:53

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 41 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

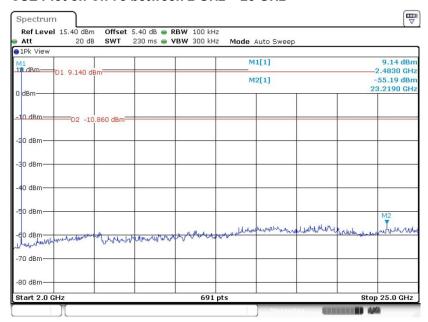
Report No.: FR9D3105A

### CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 26.FEB.2020 11:24:57

### CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



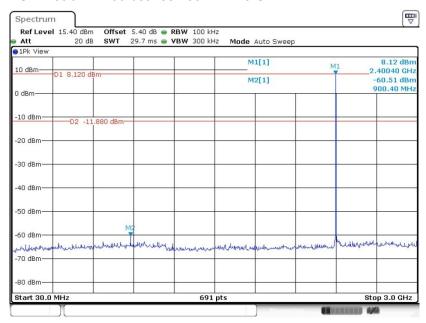
Date: 26.FEB.2020 11:27:26

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 42 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

Report No.: FR9D3105A

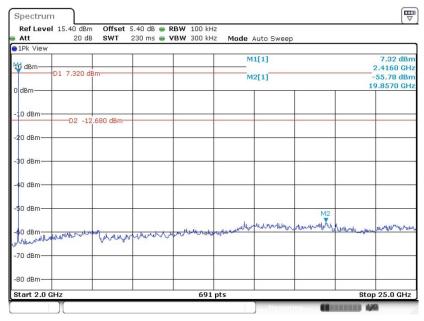
### <3Mbps>

### CSE Plot on Ch 00 between 30MHz ~ 3 GHz



Date: 26.FEB.2020 11:46:08

### CSE Plot on Ch 00 between 2 GHz ~ 25 GHz



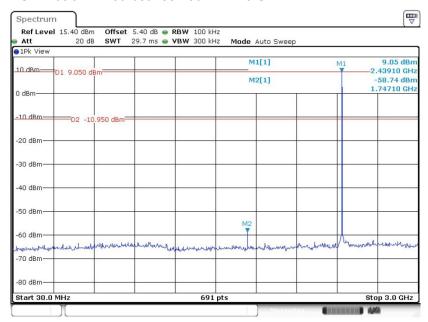
Date: 26.FEB.2020 11:46:58

Sporton International (Shenzhen) Inc.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 43 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

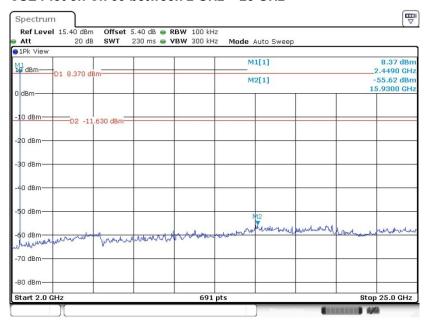
Report No.: FR9D3105A

### CSE Plot on Ch 39 between 30MHz ~ 3 GHz



Date: 26.FEB.2020 12:05:17

### CSE Plot on Ch 39 between 2 GHz ~ 25 GHz

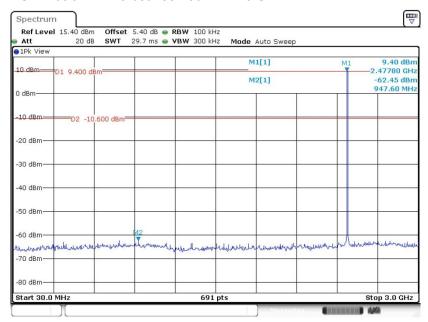


Date: 26.FEB.2020 12:06:09

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 44 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

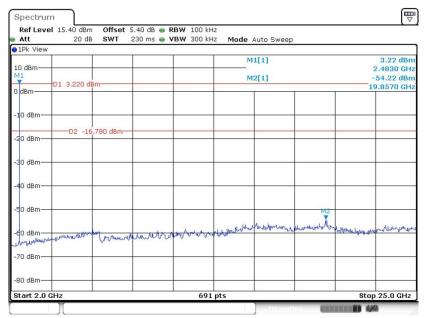
Report No.: FR9D3105A

### CSE Plot on Ch 78 between 30MHz ~ 3 GHz



Date: 26.FEB.2020 13:48:47

### CSE Plot on Ch 78 between 2 GHz ~ 25 GHz



Date: 26.FEB.2020 13:49:28

Sporton International (Shenzhen) Inc.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 45 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

Report No.: FR9D3105A

# 3.8 Radiated Band Edges and Spurious Emission Measurement

### 3.8.1 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

### 3.8.2 Measuring Instruments

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

Sporton International (Shenzhen) Inc.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 46 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

Report No.: FR9D3105A

### 3.8.3 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.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. 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.
- 4. Set to the maximum power setting and enable the EUT transmit continuously.
- 5. 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.

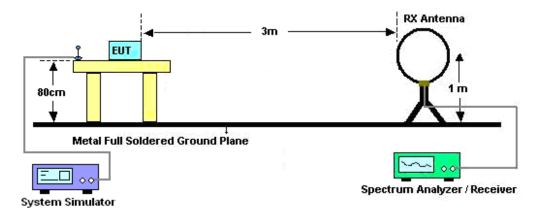
Average Emission Level = Peak Emission Level + 20\*log(Duty cycle)

- 6. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 7. 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.
- 8. 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.

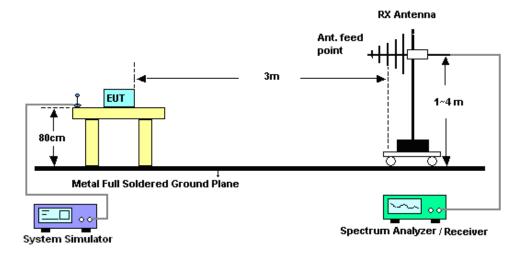
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.79dB) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent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

### 3.8.4 Test Setup

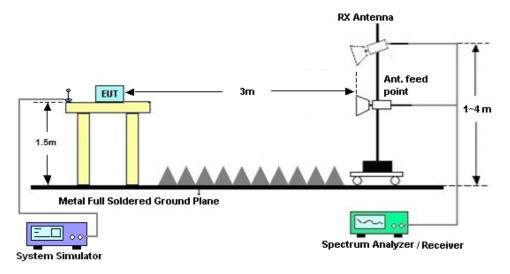
### For radiated emissions below 30MHz



### For radiated emissions from 30MHz to 1GHz



### For radiated emissions above 1GHz



Sporton International (Shenzhen) Inc.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 48 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

Report No.: FR9D3105A

### 3.8.5 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.

### 3.8.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

# 3.8.7 Test Result of Radiated Spurious Emission (30MHz ~ 10<sup>th</sup> Harmonic)

Please refer to Appendix C.

### 3.8.8 Duty cycle correction factor for average measurement

Please refer to Appendix D.

**Sporton International (Shenzhen) Inc.** TEL: 86-755-8637-9589

FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 49 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

Report No.: FR9D3105A

### 3.9 AC Conducted Emission Measurement

### 3.9.1 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.

Ereguency of emission (MUz)	Conducted limit (dBμV)			
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		

<sup>\*</sup>Decreases with the logarithm of the frequency.

### 3.9.2 Measuring Instruments

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

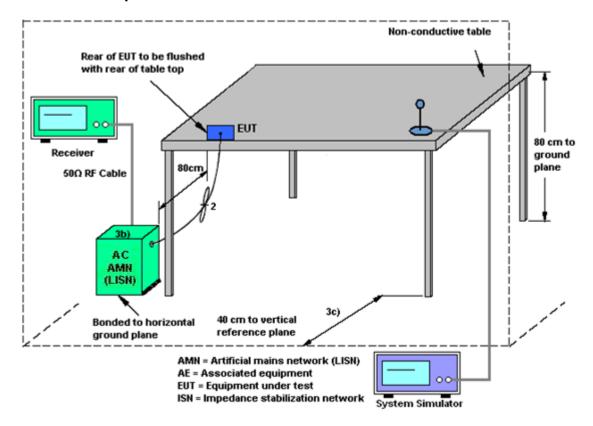
### 3.9.3 Test Procedures

- 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.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 50 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

Report No.: FR9D3105A

# 3.9.4 Test Setup



### 3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

Sporton International (Shenzhen) Inc.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 51 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

Report No.: FR9D3105A

# 3.10 Antenna Requirements

### 3.10.1 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.

### 3.10.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

### 3.10.3 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.

Sporton International (Shenzhen) Inc.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 52 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

Report Template No.: BU5-FR15CBT Version 2.0

# 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 02, 2019	Feb. 26, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GH z	Jan. 08, 2020	Feb. 26, 2020	Jan. 07, 2021	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 08, 2020	Feb. 26, 2020	Jan. 07, 2021	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY572901 57	3Hz~8.5GHz;M ax 30dBm	Jul. 18, 2019	Feb. 18, 2020~ Feb. 26, 2020	Jul. 17, 2020	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 08	10Hz-44GHz	Apr. 16, 2019	Feb. 18, 2020~ Feb. 26, 2020	Apt. 18, 2020	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 10, 2019	Feb. 18, 2020~ Feb. 26, 2020	Nov. 09, 2020	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May 30, 2019	Feb. 18, 2020~ Feb. 26, 2020	May 29, 2020	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 27, 2019	Feb. 18, 2020~ Feb. 26, 2020	Apr. 26, 2020	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Feb. 18, 2020~ Feb. 26, 2020	Nov. 09, 2020	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2019	Feb. 18, 2020~ Feb. 26, 2020	Aug. 05, 2020	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 08, 2020	Feb. 18, 2020~ Feb. 26, 2020	Jan. 07, 2021	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY532702 03	500MHz~26.5G Hz	Apr. 15, 2019	Feb. 18, 2020~ Feb. 26, 2020	Apr. 14, 2020	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Feb. 18, 2020~ Feb. 26, 2020	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Feb. 18, 2020~ Feb. 26, 2020	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Feb. 18, 2020~ Feb. 26, 2020	NCR	Radiation (03CH06-KS)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Dec. 26, 2019	Jan. 04, 2020	Dec. 25, 2020	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Oct. 17, 2019	Jan. 04, 2020	Oct. 16, 2020	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Dec. 26, 2019	Jan. 04, 2020	Dec. 25, 2020	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Jul. 23, 2019	Jan. 04, 2020	Jul. 22, 2020	Conduction (CO01-SZ)

NCR: No Calibration Required

Sporton International (Shenzhen) Inc.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 53 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

Report No.: FR9D3105A

# 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))	2.000

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

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

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

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

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

	<u> </u>
Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	5.0ub

Sporton International (Shenzhen) Inc.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : 54 of 54
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

Report No.: FR9D3105A

# **Appendix A. Conducted Test Results**

Sporton International (Shenzhen) Inc.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : A1 of A1
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

Report Number : FR9D3105A

### **Bluetooth**

Test Engineer:	Aly Cao	Temperature:	20~26	°C
Test Date:	2020/2/26	Relative Humidity:	40~51	%

### TEST RESULTS DATA 20dB and 99% Occupied Bandwidth and Hopping Channel Separation

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	0.918	0.776	998.600	0.6117	Pass
DH	1Mbps	1	39	2441	0.860	0.764	998.600	0.5731	Pass
DH	1Mbps	1	78	2480	0.857	0.758	1002.900	0.5711	Pass
2DH	2Mbps	1	0	2402	1.242	1.149	1154.800	0.8278	Pass
2DH	2Mbps	1	39	2441	1.242	1.143	998.600	0.8278	Pass
2DH	2Mbps	1	78	2480	1.237	1.140	916.100	0.8249	Pass
3DH	3Mbps	1	0	2402	1.211	1.129	855.300	0.8075	Pass
3DH	3Mbps	1	39	2441	1.211	1.123	998.600	0.8075	Pass
3DH	3Mbps	1	78	2480	1.211	1.120	968.200	0.8075	Pass

# TEST RESULTS DATA Dwell Time

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec) (MHz)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Nomal	79	106.67	2.89	0.31	0.4	Pass
AFH	20	53.33	2.89	0.15	0.4	Pass

# TEST RESULTS DATA Peak Power Table

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
	0	1	9.90	20.97	Pass
DH1	39	1	11.00	20.97	Pass
	78	1	11.00	20.97	Pass

2DH CH.	NTX	Peak Power	Power Limit	Test	
2DH CH.		INIA	(dBm)	(dBm)	Result
	0	1	9.60	20.97	Pass
2DH1	39	1	10.50	20.97	Pass
	78	1	11.10	20.97	Pass

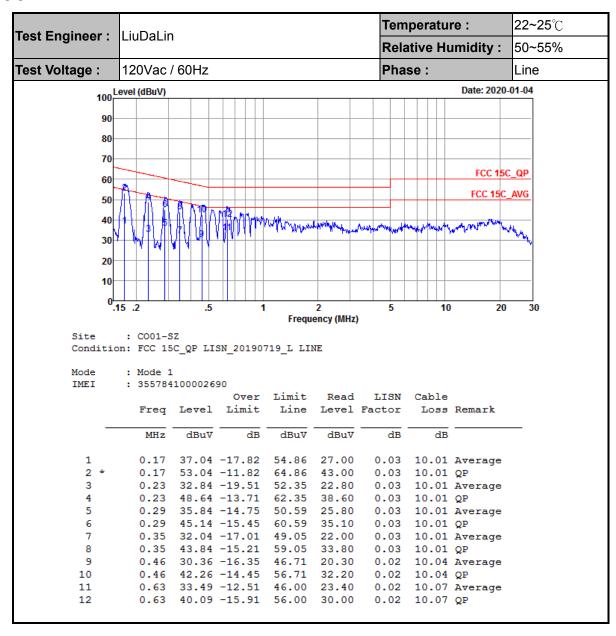
3DH	CH.	NTX	Peak Power	Power Limit	Test
	Сп.	INIX	(dBm)	(dBm)	Result
3DH1	0	1	9.60	20.97	Pass
	39	1	10.60	20.97	Pass
	78	1	11.20	20.97	Pass

# TEST RESULTS DATA

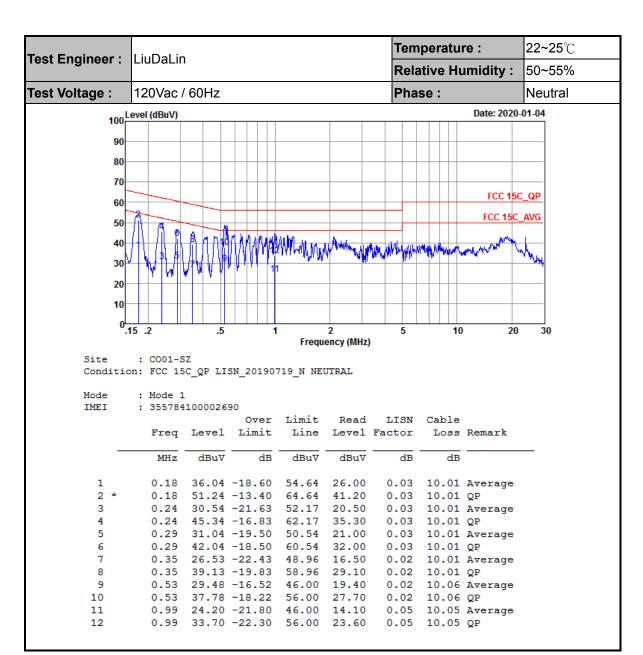
### Number of Hopping Frequency

Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	79	> 15	Pass

# **Appendix B. AC Conducted Emission Test Results**



TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : B1 of B2
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01



### Note:

- 1. Level( $dB\mu V$ ) = Read Level( $dB\mu V$ ) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB $\mu$ V) Limit Line(dB $\mu$ V)

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : B2 of B2
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

# Appendix C. 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.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	( dBµV/m )	(dB)	( dBµV/m )	(dBµV)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
		2371.36	53.32	-20.68	74	47.77	31.19	7.01	32.65	100	148	Р	Н
		2371.36	28.53	-25.47	54	-	-	-	-	-	-	Α	Н
DT	*	2402	99.68	-	-	94.06	31.2	7.04	32.62	100	148	Р	Н
BT CH00		2402	74.89	-	-	-	-	-	-	-	-	Α	Н
2402MHz		2359.27	53.29	-20.71	74	47.8	31.18	6.98	32.67	129	128	Р	٧
2402WITZ		2359.27	28.5	-25.5	54	-	-	-	-	-	-	Α	٧
	*	2402	102.51	-	-	96.89	31.2	7.04	32.62	129	128	Р	٧
		2402	77.72	-	-	-	-	-	-	-	-	Α	٧
		2485.6	54.19	-19.81	74	47.86	31.77	7.16	32.6	100	262	Р	Н
		2485.6	29.4	-24.6	54	-	-	-	-	-	-	Α	Н
D.T.	*	2480	100.8	-	-	94.47	31.77	7.16	32.6	100	262	Р	Н
BT		2480	76.01	-	-	-	-	-	-	-	-	Α	Н
CH 78 2480MHz		2483.8	54.82	-19.18	74	48.49	31.77	7.16	32.6	223	132	Р	V
2400WITIZ		2483.8	30.03	-23.97	54	-	-	-	-	-	-	Α	٧
	*	2480	102.85	-	-	96.52	31.77	7.16	32.6	223	132	Р	V
		2480	78.06	-	-	-	-	-	-	-	-	Α	V
Remark		o other spurio											

<sup>2.</sup> All results are PASS against Peak and Average limit line.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : C1 of C5
Report Issued Date : Apr. 14, 2020
Report Version : Page 24

Report No.: FR9D3105A

Report Version : Rev. 01

### 2.4GHz 2400~2483.5MHz

# BT (Harmonic @ 3m)

ВТ	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant		ļ.	
		(MHz)	( dBµV/m )	Limit (dB)	Line ( dBµV/m )	Level ( dBµV )	Factor ( dB/m )	Loss (dB)	Factor (dB)	Pos (cm)		Avg. (P/A)	
BT		4806	39.54	-34.46	74	58.59	33.7	9.81	62.56	150	360	Р	Н
CH 00 2402MHz		4806	38.58	-35.42	74	57.63	33.7	9.81	62.56	150	360	Р	V
		4884	39.76	-34.24	74	58.58	33.77	9.95	62.54	100	360	Р	Н
ВТ		7320	41.34	-32.66	74	56.46	35.89	12.64	63.65	100	360	Р	Н
CH 39 2441MHz		4884	39.18	-34.82	74	58	33.77	9.95	62.54	100	360	Р	V
244 HVI 112		7320	41.28	-32.72	74	56.4	35.89	12.64	63.65	100	360	Р	V
		4962	38.69	-35.31	74	57.22	33.85	10.13	62.51	150	360	Р	Н
BT CH 78 2480MHz		7440	39.64	-34.36	74	55.46	36.11	12.84	64.77	150	360	Р	Н
		4962	38.9	-35.1	74	57.43	33.85	10.13	62.51	150	360	Р	V
		7440	39.46	-34.54	74	55.28	36.11	12.84	64.77	150	360	Р	V

### Remark

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TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : C2 of C5
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

No other spurious found.

<sup>2.</sup> All results are PASS against Peak and Average limit line.

### **Emission below 1GHz**

# 2.4GHz BT (LF)

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)	( $dB\mu V/m$ )	(dBµV)	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)
		30.97	19	-21	40	26.43	25.18	0.47	33.08	-	-	Р	Н
		40.67	18.63	-21.37	40	31.6	19.58	0.55	33.1	-	-	Р	Н
		148.34	20.11	-23.39	43.5	34.36	17.51	1.24	33	-	-	Р	Н
		237.58	23.22	-22.78	46	35.76	18.7	1.59	32.83	-	-	Р	Н
0.4011		519.85	22.96	-23.04	46	28.37	24.85	2.4	32.66	-	-	Р	Н
2.4GHz		842.86	25.37	-20.63	46	27.4	26.99	3.25	32.27	100	0	Р	Н
BT LF		30	24.45	-15.55	40	32.89	24.2	0.46	33.1	100	0	Р	V
LF		45.52	22.3	-17.7	40	38.66	16.15	0.59	33.1	-	-	Р	V
		65.89	19.27	-20.73	40	38.76	12.64	0.75	32.88	-	-	Р	V
		101.78	16.75	-26.75	43.5	32.05	16.81	0.99	33.1	-	-	Р	V
		837.04	25.11	-20.89	46	27.87	26.25	3.24	32.25	-	-	Р	V
		931.13	24.42	-21.58	46	26.37	26.78	3.41	32.14	-	-	Р	٧

# Remark

1. No other spurious found.

2. All results are PASS against limit line.

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TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : C3 of C5
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

# 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 <b>over limit</b> line.
P/A	Peak or Average
H/V	Horizontal or Vertical

Sporton International (Shenzhen) Inc.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : C4 of C5
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01

### 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 )	(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	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 $\mu$ V/m) – Limit Line(dB $\mu$ 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".

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TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : C5 of C5
Report Issued Date : Apr. 14, 2020

Report No.: FR9D3105A

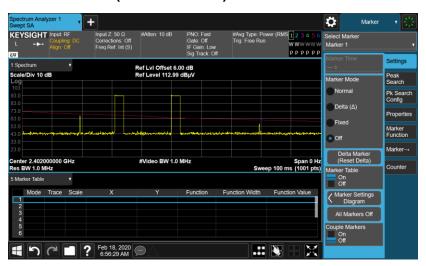
Report Version : Rev. 01

# Appendix D. Duty Cycle Plots

# 3DH5 on time (One Pulse) Plot on Channel 39



### 3DH5 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. 3DH5 has the highest duty cycle worst case and is reported.

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AJOTTA-1226 Page Number : D1 of D1
Report Issued Date : Apr. 14, 2020
Report Version : Rev. 01