

# FCC Radio Test Report

## FCC ID: 2AA7Y-MOSHIQI009

Report No. Equipment Model Name Brand Name Applicant Address	<ul> <li>BTL-FCCP-1-2006T138</li> <li>porto Q 5K</li> <li>99MO022162</li> <li>moshi</li> <li>Aevoe Inc.</li> <li>27F, No. 68, Zhong Xiao E. Rd, Sec. 5, Taipei City, 11065 Taiwan</li> </ul>
Radio Function	: WPC-Qi
FCC Rule Part(s) Measurement Procedure(s)	: FCC Part15, Subpart C (15.209) : ANSI C63.10-2013
Date of Receipt Date of Test Issued Date	: 2020/7/2 : 2020/7/2 ~ 2020/8/19 : 2020/8/31

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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### Declaration

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

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**BTL**'s laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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### **REPORT ISSUED HISTORY**

Report Version		Description	Issued Date
R00	Original Issue.		2020/8/31
Project No.: 2006T138	Page	4 of 31	Report Version: R00

### SUMMARY OF TEST RESULTS 1

Test procedures according to the technical standards.

	FCC Part 15, Subpart C (15.209)				
Standard(s) Section	Description	Test Result	Judgement	Remark	
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass		
15.209	Radiated Emissions	APPENDIX B APPENDIX C	Pass		
15.215(c)	20 dB Bandwidth	APPENDIX D	Pass		

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.(2) The report format version is TP.1.1.1.



1.1 TEST FACILITY					
The test facilities used to collect the test data in this report:					
No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizh The test sites and facilities are covered und C05 CB08 SR06		N: TW1099.	□ CB16		
No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu The test sites and facilities are covered und ⊠ C03 ⊠ CB18					
1.2 MEASUREMENT UNCERTAINTY					
The reported uncertainty of measurement uncertainty multiplied by a coverage factor The measurement instrumentation uncertai measurement uncertainty is less than the C	of <b>k</b> = <b>2</b> , providing a level of inty considerations contained	confidence of appr d in CISPR 16-4-2.	oximately 95 %.		
A. AC power line conducted emissions tes					
Test Site Method C03 CISPR	Measurement Frequency R 150 kHz ~ 30 MHz	Range U (dB 2.30	)		
		2.00			
B. Radiated emissions below 1 GHz test :					
Test Site	leasurement Frequency Range	U,(dB)			
	0.03 GHz ~ 0.2 GHz	4.17			
	0.2 GHz ~ 1 GHz	4.72			
CB18 -	1 GHz ~ 6 GHz 6 GHz ~ 18 GHz	5.21 5.51			
	18 GHz ~ 26 GHz	3.69			
	26 GHz ~ 40 GHz	4.23			
C. Conducted test :					
Test It	em	U,(dB)			
Bandwidth		1.13			
NOTE: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification. <b>1.3 TEST ENVIRONMENT CONDITIONS</b>					
Test Item	Environment Condition	n Test Voltage	Tested by		
AC Power Line Conducted Emissions	23 °C, 62 %	AC 120V	William Wei		
Radiated emissions (9KHz-30MHz)	Refer to data	AC 120V	John Chuang		
Radiated emissions (30MHz TO 1000MHz)		AC 120V	Aven Ho		
20 dB Bandwidth	22 °C, 67 %	AC 120V	Tim Lee		

### 2 GENERAL INFORMATION

### 2.1 DESCRIPTION OF EUT

Equipment	porto Q 5K			
Model Name	99MO022162			
Brand Name	moshi			
Model Difference	N/A			
Power Source	Supplied from USB po	ort.		
	Type-C Input: USB-A Output:	DC 5V~15V DC 5V/1A or 5V/2.4A		
	Wireless TX Output:	When USB-A is plugged in, Wireless TX Output Only 5V ,5W.		
Power Rating	BPP	DCIN: 5V ,OUT:5V ,5W		
	BPP+	DCIN: 9V ,OUT:7V,7.5W		
	EPP	DCIN: 12V ,OUT:9V,15W		
	EPP	DCIN: 15V ,OUT:9V,15W		
Products Covered	1 * battery: 545895PH 1 * Type-C Cable			
Frequency Range	110 KHz ~ 205 KHz			
Modulation Technology	ASK			
Max H-field strength	79.17 dBuV/m			
Test Model	99MO022162			
Sample Status	Engineering Sample			
EUT Modification(s)	N/A			

### NOTE:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

### (2) Channel List:

Channel	Frequency (KHz)	
-	110 ~ 205	

### (3) Table for Filed Antenna:

,	Ant.	Brand	Test Model	Antenna Type	Connector	Gain (dBi)
	1	N/A	N/A	Coil	N/A	N/A

### 2.2 TEST MODES

Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Radiated emissions (9KHz-30MHz)	Transmit	-	-
Radiated emissions (30MHz TO 1000MHz)	Transmit	-	-
20 dB Bandwidth	Transmit	-	-

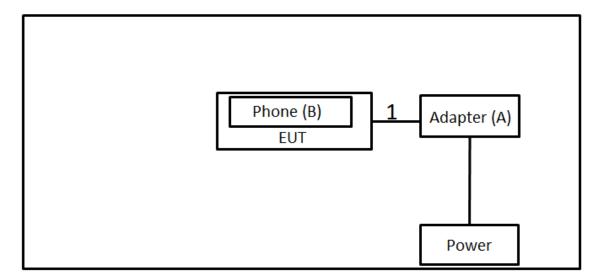
### NOTE:

(1) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.



### 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



### 2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	Adapter	Krec	KSA-27A-090300 HU	N/A	Supplied by test requester.
В	Phone	APPLE	A2111	DNPZWA0DN72 Q	Furnished by test lab.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
1	N/A	N/A	0.5m	Type-C Cable	Supplied by test requester.



### 3 AC POWER LINE CONDUCTED EMISSIONS TEST

### 3.1 LIMIT

Frequency	Limit (	dBµV)
(MHz)	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
  - Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

Measurement Value		Limit Value		Margin Level
41.67	1	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

### 3.2 TEST PROCEDURE

a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 All other support equipment were powered from an additional LISN(s).

All other support equipment were powered from an additional LISIN(S).

- The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable will be terminated, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

### NOTE:

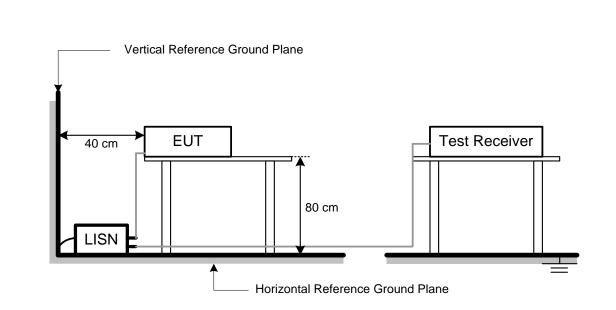
- In the results, each reading is marked as Peak, QP or AVG per the detector used. BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

### 3.3 DEVIATION FROM TEST STANDARD

No deviation.



### 3.4 TEST SETUP



### 3.5 TEST RESULT

Please refer to the APPENDIX A.



### **RADIATED EMISSIONS TEST** 4

### 4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

### LIMITS OF RADIATED EMISSION MEASUREMENT(9 kHz-1000 MHz)

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

NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart C.(2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value Calculation example:

Reading Level		Correct Factor		Measurement Value
19.11	+	2.11	Π	21.22

Measurement Value		Limit Value		Margin Level
21.22	-	54	Ш	-32.78



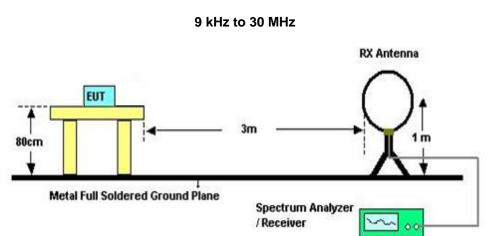
### 4.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- d. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- f. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

### 4.3 DEVIATION FROM TEST STANDARD

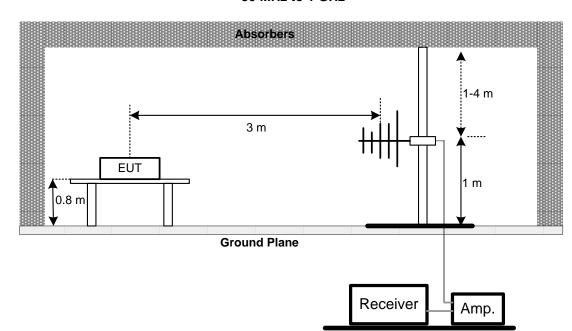
No deviation.

### 4.4 TEST SETUP





### 30 MHz to 1 GHz



### 4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 4.6 TEST RESULT – 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

### 4.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX C.

### NOTE:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.



### 5 20 DB BANDWIDTH

### 5.1 LIMIT

N/A

### 5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 1 kHz, VBW=1 kHz, Sweep time = 20 ms.

### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULT

Please refer to the APPENDIX D.



### 6 LIST OF MEASURING EQUIPMENTS

		AC Pow	er Line Conducted	d Emissions		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	2020/6/11	2021/6/11
2	Test Cable	EMCI	EMC400-BM-BM- 5000	170501	2019/8/15	2020/8/14
3	EMI Test Receiver	R&S	ESR7	101433	2019/12/13	2020/12/11
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

			Radiated Emission	ons		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC001340	980555	2020/4/10	2021/4/9
2	Preamplifier	EMCI	EMC02325B	980217	2020/4/10	2021/4/9
3	Test Cable	EMCI	EMC104-SM-SM- 800	150207	2020/4/10	2021/4/9
4	Test Cable	EMCI	EMC104-SM-SM- 3000	151205	2020/4/10	2021/4/9
5	Test Cable	EMCI	EMC-SM-SM-700 0	180408	2020/4/10	2021/4/9
6	MXE EMI Receiver	Agilent	N9038A	MY554200087	2020/6/10	2021/6/9
7	Signal Analyzer	Agilent	N9010A	MY56480554	2020/6/4	2021/6/3
8	Loop Ant	EMCO	6502	274	2020/6/16	2021/6/15
9	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	0992	2020/7/10	2021/7/9
10	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0508	2020/7/10	2021/7/9

		20 dE	Bandwidth Meas	surement		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP38	101139	2020/3/30	2021/3/29

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.



### 7 EUT TEST PHOTO

Please refer to document Appendix No.: TP-2006T138-FCCP-1 (APPENDIX-TEST PHOTOS).

### 8 EUT PHOTOS

Please refer to document Appendix No.: EP-2006T138-2 (APPENDIX-EUT PHOTOS).

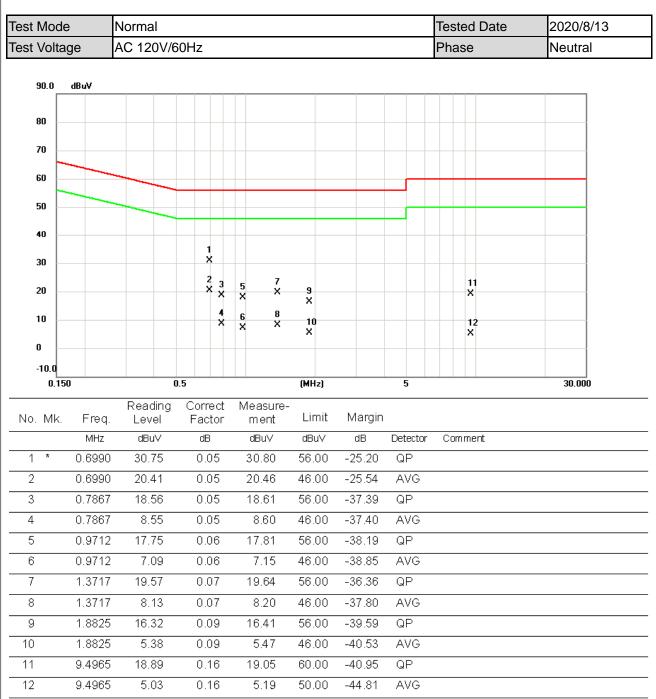


## APPENDIX A AC POWER LINE CONDUCTED EMISSIONS



		I						<b>— —</b> .	
est Mod		Normal						Tested Date	2020/8/13
est Volt	tage	AC 120V/6	50Hz					Phase	Line
90.0 80 70 60 50 40 30 20		1 X 2		5 7 5 X X 8	9				
10		×		6 X X	10 X			12 X	
0									
-10.0									
0.1	150		0.5		(MHz)		5		30.000
No. Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment	
1	0.2985		0.03	26.20	60.28	-34.08	QP		
2	0.2985		0.03	13.76	50.28	-36.52	AVG		
3	0.6990		0.05	37.66	56.00	-18.34	QP		
4 *	0.6990		0.05	28.12	46.00	-17.88	AVG		
5	0.8970		0.06	20.85	56.00	-35.15	QP		
6	0.8970		0.06	11.17	46.00	-34.83	AVG		
7	1.4078		0.07	24.04	56.00	-31.96			
8	1.4078 1.8263		0.07	14.04 20.36	46.00 56.00	-31.96 -35.64	AVG QP		
9	1.8263		0.08	9.70	46.00	-36.30	AVG		
10	9.0713		0.00	21.84	60.00	-38.16	QP		
			11 10				U.P		





(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



ot Ma	do	Idle						Tested Date	2020/8/13
est Mo		AC 120V/	2011-					Phase	Line
est Vol	lage	AC 120V/						Phase	Line
90.0	dBuV								
80									
70									
60									
50									
40			3						
30	1 X		× 4	7					
			×	5 X X	9 X			11	
20	2 X			6 8 × ×	10 X			*	
10								12 X	
0									
-10.0	150		0.5		6411-2		5		30.000
U.	100				(MHz)		9		30.000
No. MI	k. Freq	Reading . Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment	
1	0.1950		0.03	30.06	63.82	-33.76	QP		
2	0.1950		0.03	14.94	53.82	-38.88	AVG		
3	0.7012		0.05	35.53	56.00	-20.47	QP		
4 *	0.7012		0.05	27.42	46.00	-18.58	AVG		
5	0.9734		0.06	22.82	56.00	-33.18	QP		
6	0.9734		0.06	14.08	46.00	-31.92	AVG		
7	1.4010	) 25.75	0.07	25.82	56.00	-30.18	QP		
8	1.4010	) 13.04	0.07	13.11	46.00	-32.89	AVG		
	1.9657	7 20.56	0.09	20.65	56.00	-35.35	QP		
9									
9 10	1.965		0.09	12.23	46.00	-33.77	AVG		
		7 12.14	0.09	12.23 20.15	46.00 60.00	-33.77 -39.85	QP		



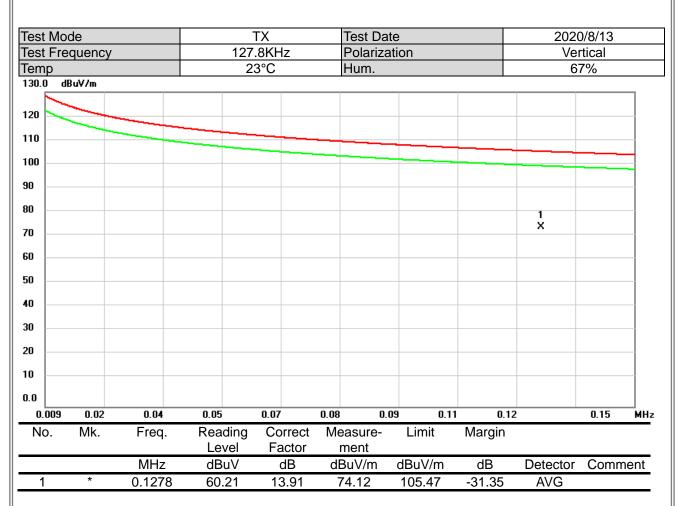
st Mo	do	Idle						Tested Date	2020/8/13
Test Mode Idle Test Voltage AC 120V/60Hz								Phase	Neutral
31 000	age	AO 1200/	00112					1 11430	Neutrai
90.0	dBuV								
80									
70									
60									
			-						
50			-						
40			3						
30		( 	×						
20			4 ×	5 X	7 9			11 X	
10		2		6 X	× ^				
0					8 X			12 X	
-10.0									
	150		0.5		(MHz)		5		30.000
lo. Mł	k. Freq	Reading . Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment	
1	0.2558	8 28.88	0.03	28.91	61.57	-32.66	QP		
2	0.2558		0.03	9.14	51.57	-42.43	AVG		
3 *	0.7035		0.05	30.64	56.00	-25.36	QP		
4	0.7035	5 19.44	0.05	19.49	46.00	-26.51	AVG		
5	1.3200	) 17.56	0.07	17.63	56.00	-38.37	QP		
6	1.3200	7.22	0.07	7.29	46.00	-38.71	AVG		
7	1.7340	) 12.46	0.08	12.54	56.00	-43.46	QP		
8	1.7340	) 1.87	80.0	1.95	46.00	-44.05	AVG		
9	2.3865	5 14.53	0.10	14.63	56.00	-41.37	QP		
10	2.3865	5 3.76	0.10	3.86	46.00	-42.14	AVG		
11	9.6608	3 17.82	0.16	17.98	60.00	-42.02	QP		
12	9.6608	3.57	0.16	3.73	50.00	-46.27	AVG		





# APPENDIX B RADIATED EMISSIONS - 9 KHZ TO 30 MHZ





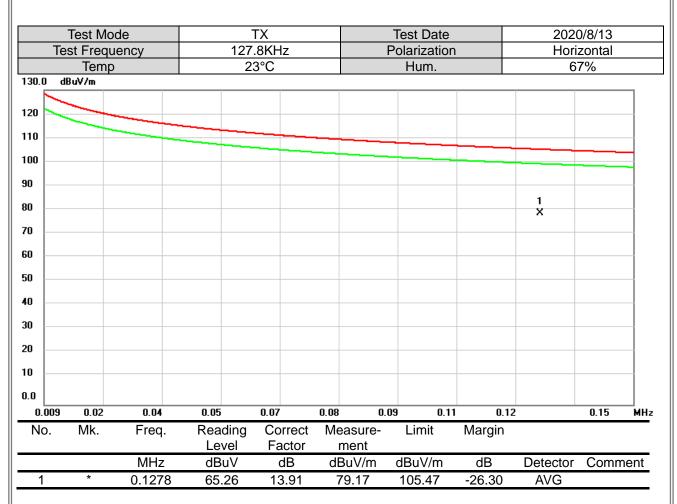
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



Test Mode Test Frequency						TX 27.8K				Test Date	2020/8/13			
Temp					14	23°C		-		Polarizatio Hum.	Vertical 67%			
130.0	) dB	uV/m	iρ			23 0				Tium.		0	1 /0	
120														_
110														_
100														
	1													
90	1			_										
80							_							-
70														_
60														_
	1	1												
50	×						-					_		6 X
40	2											5 X		-
30	X		3 X	4 ×										_
20				^										
10														
														1
0.0														
	150	3.14	6.1 Ere		9.10	12.		15.08				.03	30.00	MHz
No	).	Mk.	Fre	q.	Reading Level		orrect actor		sure- ent	Limit	Margin			
			MH	z	dBuV	- 1	dB		IV/m	dBuV/m	dB	Detector	Comn	nent
1			0.32		45.15		6.28		.43	97.26	-45.83	QP	00.111	
2			1.19		35.72		1.21	34		66.06	-31.55	QP		
3	5		3.76		35.37		4.79	30.58		69.54	-38.96	QP		
4			7.31		33.37		4.62	28.75		69.54	-40.79	QP		
5			24.65		42.19		·3.48		.71	69.54	-30.83	QP		
6	5	*	29.73	313	47.33	-	·2.17	45	.16	69.54	-24.38	QP		



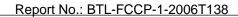


(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.



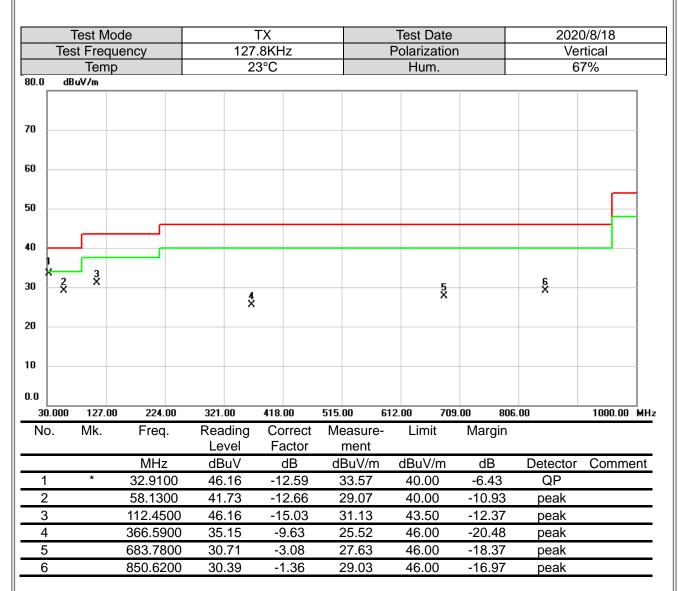
	<b>T</b> ( <b>N</b> 4			<b>T</b> 1/		<b>T</b> ( <b>D</b> (			0/0/40	
Tc	Test Mo est Frequ		11	TX 27.8KHz		Test Date Polarizatio	2020/8/13 Horizontal			
10	Temp		14	23°C		Hum.	67%			
30.0 d	Bu¥/m			20 0				0	1 /0	
20										
o										
0										
A -										
×										
	2									
	X		3					5 X	6 X	
·			x		4			^		
					×					
0.150 No.	3.14 Mk.	6.12 Erog	9.10 Decidin	12.09 g Correc	15.08 t Measure		.04 24.0	13	30.00 M	
INO.	Mk. Freq.		Readin Level	Facto		- Limit	Margin			
		MHz	dBuV	dB	dBuV/m	n dBuV/m	dB	Detector	Commen	
1		0.3291		6.28	56.62	97.26	-40.64	QP		
2	*	* 1.8813		-2.51	43.22	69.54	-26.32	QP		
3		7.4334		-4.59	32.60	69.54	-36.94	QP		
4		15.5228		-4.37	24.78	69.54	-44.76	QP		
5		26.5075	40.25	-3.00	37.25	69.54	-32.29	QP		
6		29.9403	39.64	-2.11	37.53	69.54	-32.01	QP		





# APPENDIX C RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

# **BIL**



### REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

<sup>(2)</sup> Margin Level = Measurement Value - Limit Value.



	Test Mo	do			тх				Test D	Voto		2020	7/0/10	
	st Frequ			127.8KHz					Polariz		2020/8/18 Horizontal			
	Temp				23°C				Hun			67%		
80.0 dE	luV/m													
70														
60														
													_	
50														
40														
	1 1 1		2 X									E	6 X	
30							3			4 X		5 X	^	
							З Х							
20														
10														
10														1
0.0														
30.000	127.00	) 224.00	) 321.	00	418.	00	515.	00 6	12.00	709	.00 806	.00	1000.00	) MHz
No.	Mk.	Mk. Freq.		Reading		Correct		Measure-		it	Margin			
		MHz		vel uV		actor dB		ment 3uV/m	dBuV	/m	dB	Detector	Comm	ont
1	*	111.480		.72	-15.14		32.58		43.5			peak	John	ioni
2		291.9000 44.11 -11.17			32.94		46.00		-13.06	peak				
3		493.660		31.73		-6.74		24.99	46.00		-21.01	peak		
4		691.5400				-3.29		27.40	46.0		-18.60	peak		
5		855.470		.49		.10		29.39	46.0		-16.61	peak		
6		939.860	0 31	.25	0	.44		31.69	46.0	0	-14.31	peak		



# APPENDIX D 20 DB BANDWIDTH



