

Supplier's Declaration of Conformity Documentation

The following equipment:

Type of Product:	BeaglePlay
Model Number:	BeaglePlay
Brand Name:	Beagleboard.org
Report Number:	EED32P800026

is herewith confirmed to comply with the requirements of FCC Part 15 Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including

interference that may cause undesired operation.

The result of electromagnetic emission has been evaluated by Centre Testing International Group Co., Ltd. EMC laboratory (A2LA Cert No. 3061.01) and showed in the test report.

It is understood that each unit marketed is identical to the device as tested, and any changes to the device which could adversely affect the emission characteristics will require retest.

The following importer / manufacturer is responsible for this declaration:

Company Name:

Company Address:

Person is responsible for making this declaration:

Name:	
Title:	
Legal Signature:	
Date:	

Declaration of Conformity

The submitted sample of the following equipment has been tested according to the following FCC Rules.

: Applicant name & address	Seeed Technology Co., Ltd 9F, Building G3, TCL International E city, Zhongshanyuan Road, Nanshan,Shenzhen, China.
: Manufacturer name & address	Seeed Technology Co., Ltd 9F, Building G3, TCL International E city, Zhongshanyuan Road, Nanshan,Shenzhen, China.
Product :	BeaglePlay
Model/Type reference :	BeaglePlay
Trade mark :	Beagleboard.org
Ratings: :	DC 5V
Order No. / Report No.	EED32P800026
Test Standards	47 CFR FCC Part 15 Subpart B

This Declaration is for the exclusive use of CTI's Client and is provided pursuant to the agreement between CTI and its Client. The observations and test results referenced from this Declaration are relevant only to the sample tested. This Declaration by itself does not imply that the material, product, or service is or has ever been under a CTI certification program.

Note 1: This declaration is part of the full test report(s) and should be read in conjunction with it.

FC



Aavon Ma

Aaron Ma Date of Issue: Feb. 21, 2023

Check No.:5404030123

CENTRE TESTING INTERNATIONAL GROUP CO., LTD. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China www.cti-cert.com E-mail:info@cti-cert.com

Hotline 400-6788-333

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Repor	t No. : EE	ED32P80	00026	



Page 1 of 22

Product Trade mark	: BeaglePlay : Beagleboard.org		
Model/Type reference	: BeaglePlay		
Serial Number	: N/A		
Date of Issue	: EED32F000020		
Regulations	: See below		
Test Standards		Results	
🛛 47 CFR FCC Part 15 Subp	oart B	PASS	
	Prepared for:		
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Report No. : EED32P800026



TABLE OF CONTENTS

Description			Page
1. GENERAL INFORM	ATION		
2. TEST SUMMARY			
3. MEASUREMENT UN	ICERTAINTY		
4. PRODUCT INFORM	ATION AND TEST SETU	Р	
4.1. PRODUCT INFO 4.2. TEST SETUP CO 4.3. SUPPORT EQUI	PRMATION ONFIGURATION IPMENT	Ø	4 4 4
5. FACILITIES AND AC	CREDITATIONS		5
5.1. TEST FACILITY 5.2. TEST EQUIPME 5.3. LABORATORY A	NT LIST	LISTINGS	
6. CONDUCTED EMIS	SION TEST		
6.1. LIMITS6.2. BLOCK DIAGRA6.3. PROCEDURE O6.4. GRAPHS AND D	M OF TEST SETUP F CONDUCTED EMISSI OATA	ON TEST	
7. RADIATED EMISSIC	ON TEST		
7.1. LIMITS 7.2. BLOCK DIAGRA 7.3. PROCEDURE O 7.4. GRAPHS AND D	M OF TEST SETUP F RADIATED EMISSION DATA	TEST	
APPENDIX 1 PHOTOG	RAPHS OF TEST SETU	Ρ	17
APPENDIX 2 PHOTOG (Note: N/A means not	RAPHS OF PRODUCT applicable)	<u>(</u>	





Report No. : EED32P800026

1. GENERAL INFORMATION



Page 3 of 22

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn' t verified.

2. TEST SUMMARY

The Product has been tested according to the following specifications:

Standard	Test Item	Test Method	Test
FCC 15.107	Conducted Emission	ANSI C63.4:2014	Yes
FCC 15.109	Radiated Emission	ANSI C63.4:2014	Yes









Page 4 of 22

3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Value (dB)
Conducted Emission	3.1
Radiated Emission	4.9

4. PRODUCT INFORMATION AND TEST SETUP

4.1. PRODUCT INFORMATION

Ratings:

DC 5V

4.2. TEST SETUP CONFIGURATION

See test photographs attached in Appendix 1 for the actual connections between Product and support equipment.

4.3. SUPPORT EQUIPMENT

Associated equipment name	Manufacture	model	S/N serial number	Supplied by	Certification
Notebook	HP	C1260			

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.







5. FACILITIES AND ACCREDITATIONS

5.1. TEST FACILITY

All test facilities used to collect the test data are located at Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4, CISPR 16-1-1 and other equivalent standards.

Page 5 of 22

5.2. TEST EQUIPMENT LIST

Instrumentation: The following list contains equipments used at CTI for testing. The calibrations of the measuring instruments, including any accessories that may effect such calibration, are checked frequently to assure their accuracy. Adjustments are made and correction factors applied in accordance with instructions contained in the manual for the measuring instrument.

Equipment used during the tests:

Shielding Room No. 1 - Disturbance voltages Test				
Equipment	Manufacturer Model Serial No. D	Due Date		
Receiver	R&S	ESCI	100435	04/13/2023
LISN	R&S	ENV216	100098	03/02/2023
Temperature/Humidity Indicator	Defu	TH128	1	
Barometer	changchun	DYM3	1188	05/22/2023

3M Semi-anechoic Chamber (2)- Radiated dis				sturbance Test	
\mathcal{S}	Equipment	Manufacturer	Model	Serial No.	Due Date
	3M Chamber & Accessory Equipment	ТДК	SAC-3	-	05/21/2025
	Receiver	R&S	ESCI7	100938-003	09/27/2023
	TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/21/2023
2	Multi device Controller	maturo	NCD/070/10711 112		
Ľ	Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/14/2024
	Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/16/2024
	Microwave Preamplifier	Agilent	8449B	3008A02425	06/19/2023







Page 6 of 22

5.3. LABORATORY ACCREDITATIONS AND LISTINGS

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.







6. CONDUCTED EMISSION TEST

6.1. LIMITS

Limits for Class B digital devices			
Frequency range	e Limits dB(μV)		
(MHZ)	Quasi-peak	Average	
0,15 to 0,50	66 to 56	56 to 46	
0,50 to 5	56	46	
5 to 30	60	50	

NOTE: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

6.2. BLOCK DIAGRAM OF TEST SETUP



6.3. PROCEDURE OF CONDUCTED EMISSION TEST

a. The Product was placed on a nonconductive table above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

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6.4. Pro Moo Tes Moo	GRAPHS A duct del/Type ref t Voltage de	AND DAT	TA : Bea : Bea : AC ² : Nor	aglePlay aglePlay 120V/60 mal) Hz	Te Ph	mperat ase	ure/Humidity	: 23℃/53% : L
80.0 70 60 50 40 30 20 10 0 -10 -20 0.1! No.	dBuV	Reading Level		Measure- ment dBuV	(MH Limit dBuV	2) Margin dB	Detector	12 12 10 10 10 10 10 10 10 10 10 10	AVG 30.000
1	0.1544	42.43	9.87 9.87	52.30 35.16	65.76 55.06	-13.46	QP AVG		
3	* 0.3570	40.90	10.01	50.91	58.80	-7.89	QP		

	3 *	0.3570	40.90	10.01	50.91	58.80	-7.89	QP	
	4	0.3660	29.06	10.00	39.06	48.59	-9.53	AVG	
	5	0.6224	33.69	10.03	43.72	56.00	-12.28	QP	
2	6	0.7259	24.53	9.87	34.40	46.00	-11.60	AVG	
	7	1.0004	31.01	9.83	40.84	56.00	-15.16	QP	
	8	1.1038	22.49	9.83	32.32	46.00	-13.68	AVG	
	9	2.0219	31.27	9.79	41.06	56.00	-14.94	QP	
	10	2.1118	21.30	9.79	31.09	46.00	-14.91	AVG	
	11	6.9450	15.50	9.79	25.29	50.00	-24.71	AVG	
	12	6.9855	32.27	9.79	42.06	60.00	-17.94	QP	

Model/Type reference :: Beagle hay Test Voltage :: AC120V/60Hz Temperature/Humidity :: 23°C Mode :: Normal Phase :: N Note :: : : : N 10	Temperature/Humidity : 23°C/53% Phase : N Image: Second	Model/Type reference :: Beagle Play Test Voltage :: AC120V/60Hz Temperature/Humidity :: 23°C/53% Mode :: Normal Phase :: No Note :: :: .: .: .: .: Mode ::	Droduct			• Bo	aloDlav							
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2 0.1770 28.79 9.87 38.66 54.63 -15.97 AVG 3 0.3570 40.06 10.01 50.07 58.80 -8.73 QP 4 * 0.3704 31.88 10.00 41.88 48.49 -6.61 AVG 5 0.6990 35.14 9.88 45.02 56.00 -10.98 QP	5.97 AVG 3.73 QP 3.61 AVG 0.98 QP 0.24 AVG 1.03 QP	2 0.1770 28.79 9.87 38.66 54.63 -15.97 AVG 3 0.3570 40.06 10.01 50.07 58.80 -8.73 QP 4 * 0.3704 31.88 10.00 41.88 48.49 -6.61 AVG 5 0.6990 35.14 9.88 45.02 56.00 -10.98 QP 6 0.7575 25.90 9.86 35.76 46.00 -10.24 AVG 7 1.1760 35.15 9.82 44.97 56.00 -11.03 QP 8 1.1760 26.23 9.82 36.05 46.00 -9.95 AVG	1	0.1680	43.36	9.87	53.23	65.06	-11.83	QP				
3 0.3570 40.06 10.01 50.07 58.80 -8.73 QP 4 * 0.3704 31.88 10.00 41.88 48.49 -6.61 AVG 5 0.6990 35.14 9.88 45.02 56.00 -10.98 QP	3.73 QP 3.61 AVG 0.98 QP 0.24 AVG 1.03 QP	3 0.3570 40.06 10.01 50.07 58.80 -8.73 QP 4 * 0.3704 31.88 10.00 41.88 48.49 -6.61 AVG 5 0.6990 35.14 9.88 45.02 56.00 -10.98 QP 6 0.7575 25.90 9.86 35.76 46.00 -10.24 AVG 7 1.1760 35.15 9.82 44.97 56.00 -11.03 QP 8 1.1760 26.23 9.82 36.05 46.00 -9.95 AVG	2	0.1770	28.79	9.87	38.66	54.63	-15.97	AVG				
4 * 0.3704 31.88 10.00 41.88 48.49 -6.61 AVG	S.61 AVG 0.98 QP 0.24 AVG 1.03 QP	4 * 0.3704 31.88 10.00 41.88 48.49 -6.61 AVG 5 0.6990 35.14 9.88 45.02 56.00 -10.98 QP 6 0.7575 25.90 9.86 35.76 46.00 -10.24 AVG 7 1.1760 35.15 9.82 44.97 56.00 -11.03 QP 8 1.1760 26.23 9.82 36.05 46.00 -9.95 AVG	3	0.3570	40.06	10.01	50.07	58.80	-8.73	QP				
5 0 6990 35 14 9 88 45 02 56 00 -10 98 OP	0.98 QP 0.24 AVG 1.03 QP	5 0.6990 35.14 9.88 45.02 56.00 -10.98 QP 6 0.7575 25.90 9.86 35.76 46.00 -10.24 AVG 7 1.1760 35.15 9.82 44.97 56.00 -11.03 QP 8 1.1760 26.23 9.82 36.05 46.00 -9.95 AVG	4 *	0.3704	31.88	10.00	41.88	48.49	-6.61	AVG				
	0.24 AVG 1.03 QP	6 0.7575 25.90 9.86 35.76 46.00 -10.24 AVG 7 1.1760 35.15 9.82 44.97 56.00 -11.03 QP 8 1.1760 26.23 9.82 36.05 46.00 -9.95 AVG	5	0.6990	35.14	9.88	45.02	56.00	-10.98	QP				
0 U.7575 25.90 9.86 35.76 46.00 -10.24 AVG	1.03 QP	7 1.1700 35.15 9.82 44.97 50.00 -11.03 QP 8 1.1760 26.23 9.82 36.05 46.00 -9.95 AVG	0	0.7575	25.90	9.86	35.76	46.00	-10.24	AVG				

Note:

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1. Margin=Measurement-Limit.

2.2020

6.9495

7.0080

2. Measurement=Reading_Level+Correct Factor.

35.39

18.80

36.35

9.79

9.79

9.79

45.18

28.59

46.14

56.00

50.00

60.00

-10.82

-21.41

-13.86

QP

AVG

QP

3. Correct Factor=Cable Factor+Lisn Factor.



Report No. : EED32P800026



7. RADIATED EMISSION TEST 7.1. LIMITS

For unintentional device, according to §15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values.

And according to §15.109 (2)measurements below 1000 MHz provided the limits in paragraphs (a) and (b) of this section are extrapolated to the new measurement distance using an inverse linear distance extrapolation factor (20 dB/decade).

According to FCC 15.31 section(1), at frequencies at or above 30 MHz measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

According to FCC 15.31 section(2), frequencies below 30 MHz, performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

According to 15.35 Measurement detector functions and bandwidths section (b). Unless otherwise specified, e.g., see §§15.250, 15.252, 15.253(d), 15.255, 15.256, and 15.509 through 15.519 of this part, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

Frequency (MHz)	limits at 3m dB(uV/m)
30-88	40.0
88.216	43.5
00-210	40.0
216-960	46.0
Above 960	54.0

Limits for Class B digital devices

NOTE: 1. The lower limit shall apply at the transition frequency.

2. The limits shown above are based on measuring equipment employing a CISPR quasi-peak detector function for frequencies below or equal to 1000MHz.

3. The limits shown above are based on measuring equipment employing an average detector function for frequencies above 1000MHz.







Page 11 of 22

7.2. BLOCK DIAGRAM OF TEST SETUP

30MHz ~ 1GHz:







7.3. PROCEDURE OF RADIATED EMISSION TEST

30MHz ~ 1GHz:

a. The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.

b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.

c. For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

Above 1GHz:

a. The Product was placed on the non-conductive turntable 0.8 m above the ground at a chamber.

b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.

c. For each frequency whose maximum record was higher or close to limit, measure its AV value: rotate the turntable from 0 to 360 degrees to find the degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to AV value and specified bandwidth with Maximum Hold Mode, and record the maximum value.



7.4. GRAPHS AND DATA 30MHz ~ 1GHz: Product : BeaglePlay Test Voltage : AC120V/60Hz Temperature : 23°C Mode : Normal Humidity : 54% Polarization : Horizontal Note : 70 48WV/m	Report No. : EED32F	リ 不立 次 (2800026	(Å			Page 13	of 22
Product : BeaglePlay Model/Type reference : BeaglePlay Test Voltage : AC120V/60Hz Temperature : 23°C Mode : Normal Humidity : 54% Polarization : Horizontal Note : 72.0 dBuV/m 62 63 64 75 75 75 75 75 75 75 75 75 75	7.4. GRAPHS 30MHz ~ 1GHz	AND DATA					
Model/Type reference : BeaglePlay Test Voltage : AC120V/60Hz Temperature : 23°C Mode : Normal Humidity : 54% Polarization : Horizontal Note : 720 dBuV/m 62 62 62 62 720 dBuV/m 62 62 720 dBuV/m 62 720 dBuV/m 62 720 dBuV/m 720 dBuV	Product	:	BeaglePlay				
Test Voltage : AC120V/60Hz Temperature : 23°C Mode : Normal Humidity : 54% Polarization : Horizontal Note : 72.0 dBuV/m	Model/Type re	ference :	BeaglePlay				
Mode : Normal Humidity : 54% Polarization : Horizontal Note : 72.0 dBuV/m 62 62 62 62 62 62 62 62 62 62	Test Voltage		AC120V/60Hz	Temperature	e : 2	3 ℃	
Polarization : Horizontal Note :	Mode	:	Normal	Humidity	: 5	4%	
62	Polarization 72.0 dBuV/m	:	Horizontal	Note	:		
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-28	-18						
	-28						
	-38						

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No	. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree		_
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	—
		80.0805	15.71	10.70	26.41	40.00	-13.59	QP	200	4		_
2)	108.2666	15.25	13.55	28.80	43.50	-14.70	QP	200	192		_
	3 !	245.9509	26.34	14.71	41.05	46.00	-4.95	QP	100	261		- 3
		369.4047	24.95	17.85	42.80	46.00	-3.20	QP	100	88		Ē
ļ) *	801.7863	19.06	25.34	44.40	46.00	-1.60	QP	200	4		-
- (5 !	909.6666	14.09	28.21	42.30	46.00	-3.70	QP	200	4		_



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		73.3593	19.17	11.60	30.77	40.00	-9.23	QP	200	129	
2		108.6470	19.87	13.54	33.41	43.50	-10.09	QP	100	351	
3		160.3456	22.76	10.52	33.28	43.50	-10.22	QP	100	4	
4		369.4047	21.24	17.85	39.09	46.00	-6.91	QP	100	4	
5	*	642.8612	18.52	22.86	41.38	46.00	-4.62	QP	100	343	
6	i	1000.0000	13.88	28.11	41.99	54.00	-12.01	QP	100	4	



Product :: BeaglePlay Model/Type reference :: BeaglePlay Test Voltage :: AC120V/60Hz Temperature :: 23°C Mode :: Normal Humidity :: 54% Polarization :: Horizontal Note :: 20 dBvVm	11 12 AV
Polarization : Horizontal Note : 82.0 dBwV/m	11 12 AV
Image: No. Mk. Freq. Reading Level Correct Factor Measurement Limit Margin Antenna Height Degree Table Degree MHz dBuV dB dBuV/m dB Detector cm degree Comment 1 1085.913 46.31 -14.41 31.90 60.00 -28.10 AVG 100 37 2 1145.881 59.44 -14.10 45.34 80.00 -34.66 peak 100 316 3 1398.023 43.19 -13.31 29.88 60.00 -31.80 peak 200 9 5 1601.968 60.05 -12.57 31.35 60.00 -28.50 AVG 100 32 6 1604.841 43.90 -12.57 31.35 60.00 -28.56 AVG 200 32 7 1985.669 62.57 11.55 50.78 60.00 -28.56 AVG 200 32 6 1604.841 43.90 -12.57 31.35 60.00 -28.56 AVG 200 32 7	11 12 12 AV
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S2 7 9 1 32 7 9 1 1 32 1<	11 × per 12 × AV
Image: No. Mk. Freq. Reading Level Correct Factor Measurement Margin Antenna Height Degree MHz dBuV dB dBuV/m dB Detector cm degree Comment 1 1085.913 46.31 -14.41 31.90 60.00 -28.10 AVG 100 37 2 1145.881 59.44 -14.10 45.34 80.00 -34.66 peak 100 316 3 1398.023 43.19 -13.31 29.88 60.00 -30.12 AVG 100 37 2 1462.407 61.38 -12.57 47.48 80.00 -31.80 peak 200 9 5 1601.968 60.05 -12.57 47.48 80.00 -32.52 peak 200 32 6 1604.841 43.90 -12.55 31.35 60.00 -28.65 AVG 200 32 7 1985.660 62.52 11.45 50.00 -28.65 AVG 200 32 6 1604.841 <td< td=""><td>11 12 12 AV</td></td<>	11 12 12 AV
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32 3 3 3 4	12 AV
No. Mk. Freq. Reading Level Correct Factor Measure- ment Limit Margin Antenna Height Table Degree 1 1085.913 46.31 -14.41 31.90 60.00 -28.10 AVG 100 37 2 1145.881 59.44 -14.10 45.34 80.00 -34.66 peak 100 316 3 1398.023 43.19 -13.31 29.88 60.00 -30.12 AVG 100 32 4 1428.407 61.38 -13.18 48.20 80.00 -31.80 peak 200 9 5 1601.968 60.05 -12.57 47.48 80.00 -32.52 peak 200 32 6 1604.841 43.90 -12.55 50.07 80.00 -28.65 AVG 200 32	S
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7 1885 660 62 52 11 55 50 07 80 00 20 03 posk 100 25	
1 1003.009 02.32 -11.33 30.91 00.00 -29.03 peak 100 23	
8 1909.469 39.54 -11.43 28.11 60.00 -31.89 AVG 100 25	
9 2410.306 70.10 -9.66 60.44 80.00 -19.56 peak 200 356	
9 2410.306 70.10 -9.66 60.44 80.00 -19.56 peak 200 356 10 * 2410.306 63.50 -9.66 53.84 60.00 -6.16 AVG 200 356	
11 5605.076 46.68 -1.37 45.31 80.00 -34.69 peak 200 172	



Note:

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1. Margin=Measurement-Limit.

1599.100

1855.505

2410.306

2414.629

3406.085

3406.085

4002.110

4002.110

2. Measurement=Reading_Level+Correct Factor.

46.38

61.34

62.25

69.32

52.52

37.38

56.00

39.23

-12.58

-11.61

-9.66

-9.63

-6.38

-6.38

-5.31

-5.31

33.80

49.73

52.59

59.69

46.14

31.00

50.69

33.92

60.00

80.00

60.00

80.00

80.00

60.00

80.00

60.00

-26.20

-30.27

-7.41

-20.31

-33.86

-29.00

-29.31

-26.08

AVG

peak

AVG

peak

peak

AVG

peak

AVG

100

200

100

200

100

100

200

200

0

315

235

163

356

356

303

303

3. Correct Factor=Ant Factor+Cable loss.





Page 17 of 22

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP



CONDUCTED DISTURBANCE TEST SETUP



RADIATED EMISSION TEST SETUP-1







Page 18 of 22









Page 19 of 22

APPENDIX 2 PHOTOGRAPHS OF PRODUCT

Test model No.: BeaglePlay











Page 20 of 22



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