

FCC EMC Test Report

Applicant: Todos Industrial Limited

Address of Applicant: Room 308, building A3, Fuhai information port, Fuhai street, Bao'an District

Equipment Under Test (EUT)

Product Name: Baby Anti Abandonment Car Seat key

Model No.: Hiup key H6, 15671 - BABY CAR SEAT ALERT KEYCHAIN, TBSAV-3D, A1, A2, A3, AX, B1, B2, B3, BX, C1, C2, C3, CX. (X can be " 0-9", "a--z")

Trade Mark: hiup, Tamotsu, Aprix, Todos

FCC ID: 2AZQ6-KEYH6


Applicable Standards: FCC CFR Title 47 Part 15B


Date of Sample Receipt: 17 Feb., 2022


Date of Test: 18 Feb., to 21 Apr., 2022


Date of report Issued: 22 Apr., 2022

Test Result: PASS

Tested by:  **Date:** 22 Apr., 2022

Reviewed by:  **Date:** 22 Apr., 2022

Approved by:  **Date:** 22 Apr., 2022



This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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2 Version

Version No.	Date	Description
00	22 Apr., 2022	Original

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4 General Information

4.1 Client Information

Applicant:	Todos Industrial Limited
Address:	Room 308, building A3, Fuhai information port, Fuhai street, Bao'an District
Manufacturer:	TODOS INDUSTRIAL LIMITED
Address:	FLAT/RM 504 5/F HO KING COMMERCIAL CENTRE 2-16 FA YUEN STREET MONG KOK KL

4.2 General Description of E.U.T.

Product Name:	Baby Anti Abandonment Car Seat key
Model No.:	Hiup key H6, 15671 - BABY CAR SEAT ALERT KEYCHAIN, TBSAV-3D, A1, A2, A3, AX, B1, B2, B3, BX, C1, C2, C3, CX. (X can be " 0-9", "a--z")
Power Supply:	Rechargeable Li-ion Battery DC3.7V, 400mAh
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	Model No.: Hiup key H6, 15671 - BABY CAR SEAT ALERT KEYCHAIN, TBSAV-3D, A1, A2, A3, AX, B1, B2, B3, BX, C1, C2, C3, CX. (X can be " 0-9", "a--z") were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.

4.3 Test Mode

Operating Mode	Detail Description
Charging and working mode	Keep the EUT in Charging and working mode
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

4.4 Description of Support Units

Manufacturer	Description	Model	S/N	FCC ID/DoC
N/A				

4.5 Description of Cable Used

Cable Type	Description	Length	From	To
N/A				

4.6 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.11 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB
Radiated Emission (30MHz ~ 1GHz) (10m SAC)	±4.32 dB

Note: 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.

4.7 Additions to, Deviations, or Exclusions from the Method

No

4.8 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● CNAS - Registration No.: CNAS L15527 JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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4.9 Laboratory Location

<p>JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://jyt.lets.com</p>

4.10 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-17-2022	02-16-2023
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-17-2022	02-16-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXG001-7	02-17-2022	02-16-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	02-17-2022	02-16-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	02-17-2022	02-16-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	02-17-2022	02-16-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXG001-9	02-17-2022	02-16-2023
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	02-17-2022	02-16-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	02-17-2022	02-16-2023
Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYT3M-1G-BB-5M	WXG001-6	02-17-2022	02-16-2023
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	02-17-2022	02-16-2023
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

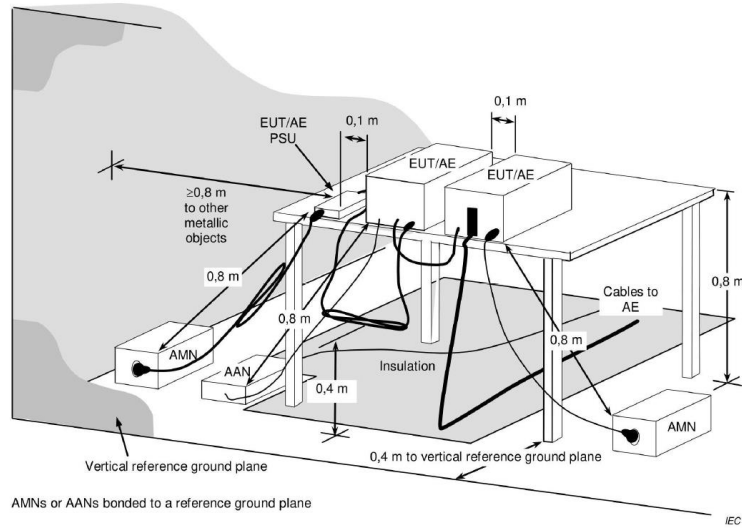
Radiated Emission(10m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
10m SAC	ETS	RFSD-100-F/A	WXJ090	04-28-2021	04-27-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-1	04-02-2021	04-01-2022
				03-30-2022	03-29-2023
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-2	04-02-2021	04-01-2022
				03-30-2022	03-29-2023
EMI Test Receiver	R&S	ESR 3	WXJ090-3	04-08-2021	04-07-2022
				03-30-2022	03-29-2023
EMI Test Receiver	R&S	ESR 3	WXJ090-4	04-08-2021	04-07-2022
				03-30-2022	03-29-2023
Low Pre-amplifier	Bost	LNA 0920N	WXG002-3	04-06-2021	04-05-2022
				03-30-2022	03-29-2023
Low Pre-amplifier	Bost	LNA 0920N	WXG002-4	04-06-2021	04-05-2022
				03-30-2022	03-29-2023
Cable	Bost	JYT10M-1G-NN-10M	XG002-7	04-02-2021	04-01-2022
				03-30-2022	03-29-2023
Cable	Bost	JYT10M-1G-NN-10M	XG002-8	04-02-2021	04-01-2022
				03-30-2022	03-29-2023
Test Software	R&S	EMC32	Version: 10.50.40		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	WXJ003	02-17-2022	02-16-2023
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	02-17-2022	02-16-2023
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	06-18-2021	06-17-2022
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	02-17-2022	02-16-2023
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

5 Measurement Setup and Procedure

5.1 Test Setup

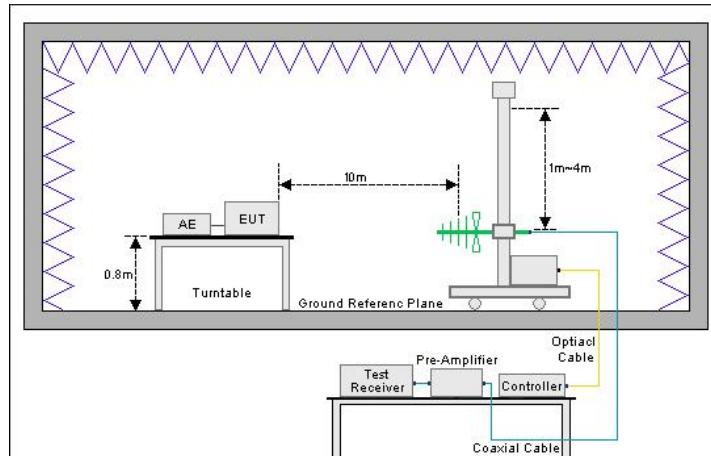
1) Conducted emission measurement:



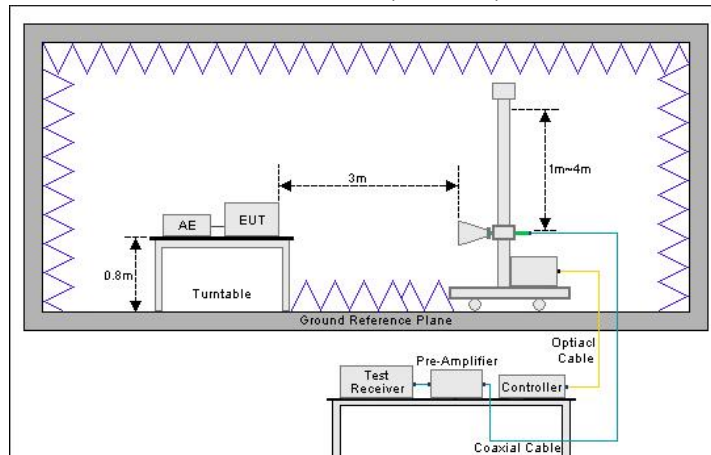
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

Below 1GHz (10m SAC)



Above 1GHz (3m SAC)



5.2 Test Procedure

Test method	Test step
Conducted emission	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.
Radiated emission	<p>For below 1GHz:</p> <ol style="list-style-type: none"> 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 10 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 10 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. <p>For above 1GHz:</p> <ol style="list-style-type: none"> 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

6 Test Results

6.1 Summary

6.1.1 Clause and data summary

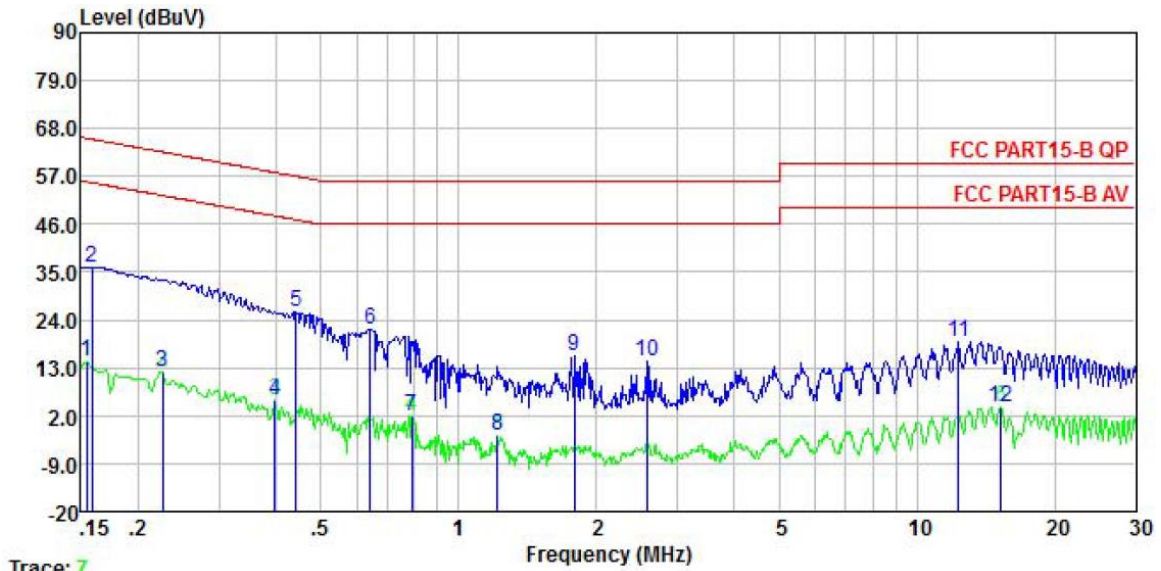
Test items	Standard clause	Test data	Result
Conducted Emission	Part 15.107	See Section 6.2	Pass
Radiated Emission	Part 15.109	See Section 6.3	Pass
Remark: 1. The EUT is a Class B digital device. 2. Pass: The EUT complies with the essential requirements in the standard. 3. N/A: Not Applicable.			
Test Method:		ANSI C63.4:2014	

6.1.2 Test Limit

Test items	Limit				
Conducted Emission	Frequency (MHz)	Class A Limit (dB μ V)		Class B Limit (dB μ V)	
		Quasi-Peak	Average	Quasi-Peak	Average
	0.15 – 0.5	79	66	66 to 56 ^{Note 1}	56 to 46 ^{Note 1}
	0.5 – 5	73	60	56	46
	5 – 30	73	60	60	50
Note 1: The limit level in dB μ V decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.					
Radiated Emission	Frequency (MHz)	Class A Limit (dB μ V/m)		Class B Limit (dB μ V/m)	
		Quasi-Peak @ 3m	Quasi-Peak @ 10m	Quasi-Peak @ 3m	Quasi-Peak @ 10m
	30 – 88	49.0	39.0	40.0	30.0
	88 – 216	53.5	43.5	43.5	33.5
	216 – 960	56.0	46.0	46.0	36.0
	960 – 1000	60.0	50.0	54.0	44.0
	Note: The more stringent limit applies at transition frequencies.				
	Frequency	Class A Limit (dB μ V/m) @ 3m		Class B Limit (dB μ V/m) @ 3m	
		Average	Peake	Average	Peake
	Above 1 GHz	60.0	80.0	54.0	74.0
Note: The measurement bandwidth shall be 1 MHz or greater.					

6.2 Conducted Emission

Product name:	Baby Anti Abandonment Car Seat key	Product model:	Hiup key H6
Test by:	Mike	Test mode:	Charging & working mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		



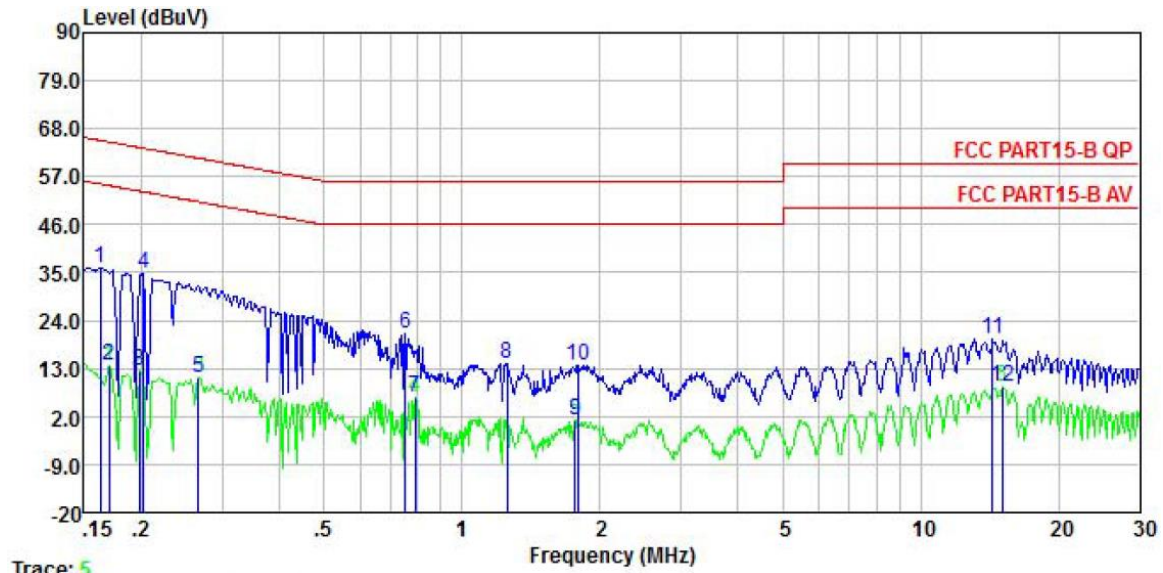
Trace: 7

	Read Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	14.47	0.04	0.01	14.52	55.78	-41.26	Average
2	0.158	36.14	0.04	0.01	36.19	65.56	-29.37	QP
3	0.226	11.99	0.04	0.02	12.05	52.61	-40.56	Average
4	0.398	5.42	0.04	0.04	5.50	47.90	-42.40	Average
5	0.442	25.76	0.04	0.03	25.83	57.02	-31.19	QP
6	0.641	21.87	0.04	0.02	21.93	56.00	-34.07	QP
7	0.792	1.77	0.04	0.03	1.84	46.00	-44.16	Average
8	1.216	-2.86	0.06	0.10	-2.70	46.00	-48.70	Average
9	1.790	15.28	0.07	0.19	15.54	56.00	-40.46	QP
10	2.581	14.35	0.08	0.12	14.55	56.00	-41.45	QP
11	12.318	18.70	0.24	0.10	19.04	60.00	-40.96	QP
12	15.226	3.69	0.27	0.14	4.10	50.00	-45.90	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Baby Anti Abandonment Car Seat key	Product model:	Hiup key H6
Test by:	Mike	Test mode:	Charging & working mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



Trace: 5

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.162	35.94	0.05	0.01	36.00	65.34	-29.34	QP
2	0.170	13.56	0.05	0.01	13.62	54.94	-41.32	Average
3	0.198	12.47	0.04	0.04	12.55	53.71	-41.16	Average
4	0.202	34.90	0.04	0.04	34.98	63.54	-28.56	QP
5	0.266	10.97	0.04	0.02	11.03	51.25	-40.22	Average
6	0.751	20.86	0.04	0.03	20.93	56.00	-35.07	QP
7	0.792	6.15	0.04	0.03	6.22	46.00	-39.78	Average
8	1.255	14.10	0.05	0.10	14.25	56.00	-41.75	QP
9	1.762	0.98	0.06	0.18	1.22	46.00	-44.78	Average
10	1.790	13.58	0.06	0.19	13.83	56.00	-42.17	QP
11	14.364	19.42	0.24	0.13	19.79	60.00	-40.21	QP
12	15.066	8.55	0.25	0.14	8.94	50.00	-41.06	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

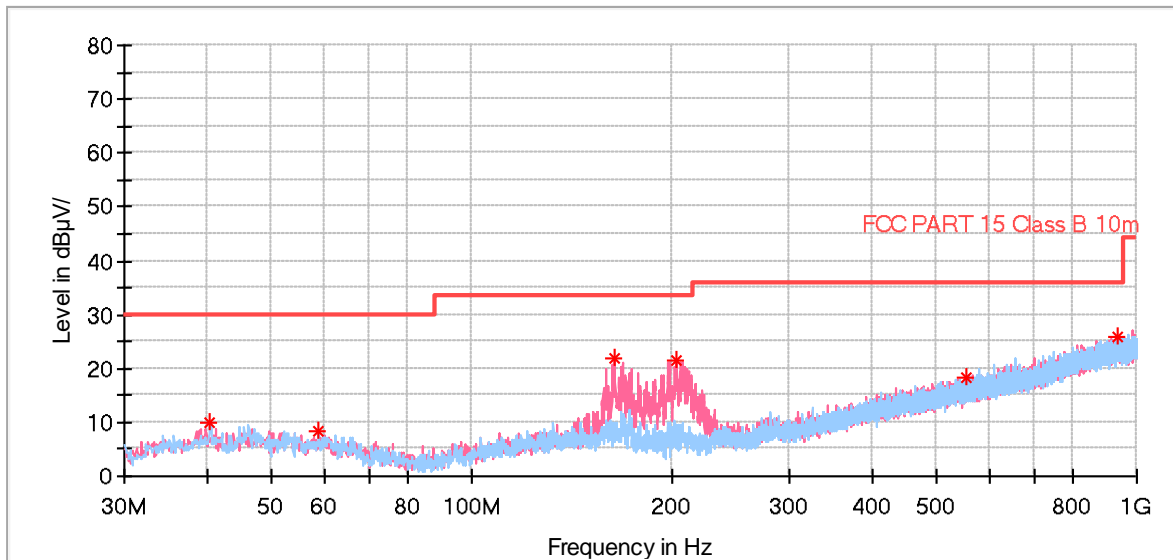
6.3 Radiated Emission

Below 1GHz:

With metal shell:

Product Name:	Baby Anti Abandonment Car Seat key	Product Model:	Hiup key H6
Test By:	Mike	Test mode:	Charging & working mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz		

Full Spectrum



Frequency (MHz)	MaxPeak (dB µV/m)	Limit (dB µV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
552.733000	18.24	36.00	17.76	100.0	H	32.0	-7.7
58.809000	8.17	30.00	21.83	100.0	H	326.0	-16.3
40.282000	9.99	30.00	20.01	100.0	H	346.0	-15.6
164.151000	21.77	33.50	11.73	100.0	V	24.0	-15.8
203.630000	21.43	33.50	12.07	100.0	V	30.0	-18.1
934.719000	26.03	36.00	9.97	100.0	V	112.0	-0.3

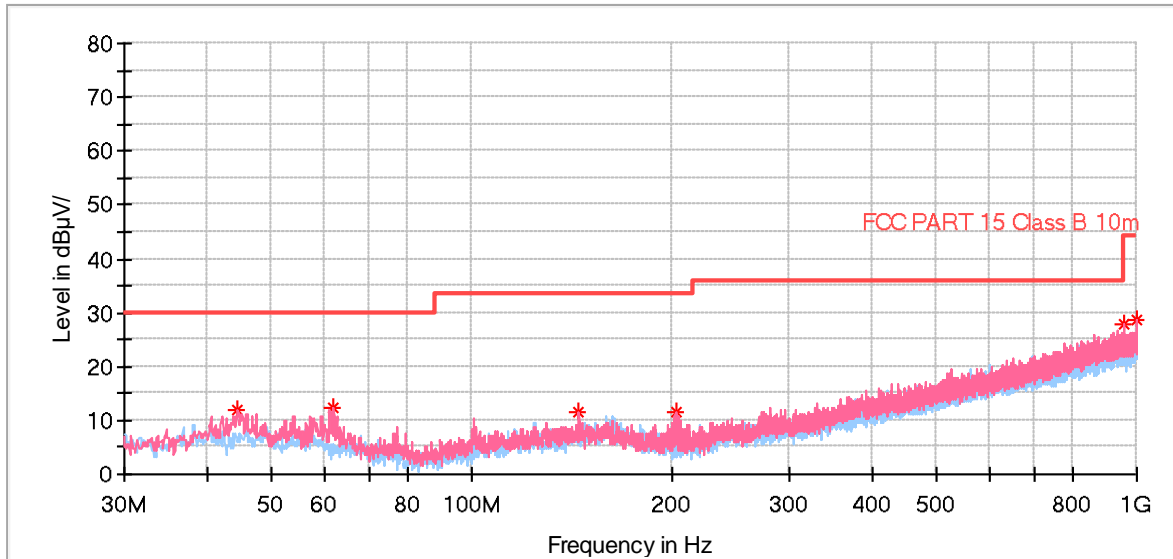
Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

With Plastic Enclosure:

Product Name:	Baby Anti Abandonment Car Seat key	Product Model:	Hiup key H6
Test By:	Mike	Test mode:	Charging & working mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz		

Full Spectrum



Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
202.369000	11.70	33.50	21.80	100.0	V	0.0	-18.1
44.453000	12.00	30.00	18.00	100.0	V	11.0	-15.7
959.648000	27.80	36.00	8.20	100.0	V	23.0	0.0
144.945000	11.61	33.50	21.89	100.0	V	38.0	-15.6
61.913000	12.23	30.00	17.77	100.0	V	91.0	-16.7
999.127000	28.71	44.00	15.29	100.0	V	182.0	0.6

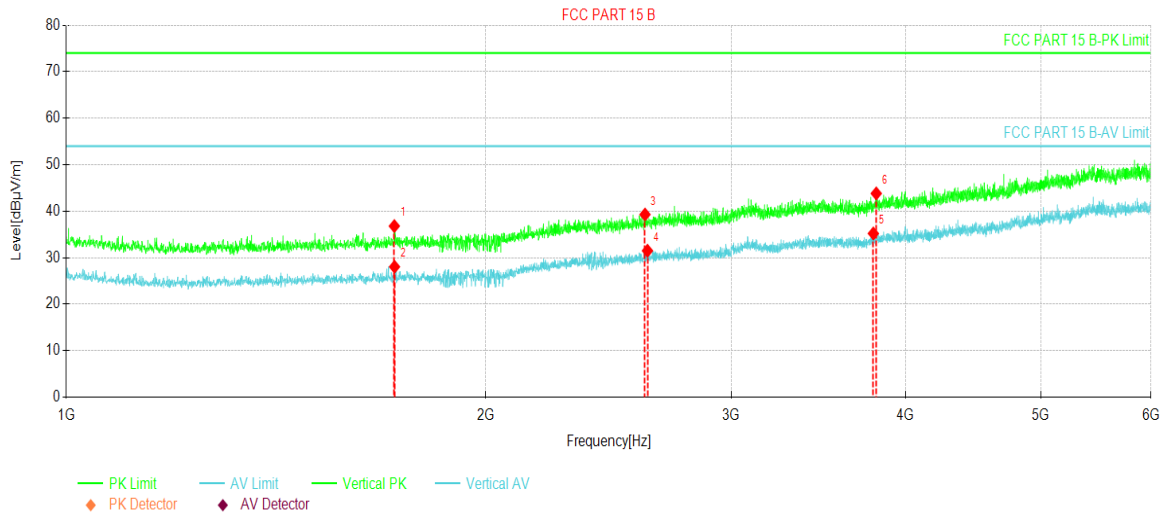
Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preampifier Factor.

Above 1GHz:

With metal shell:

Product Name:	Baby Anti Abandonment Car Seat key	Product Model:	Hiup key H6
Test By:	Mike	Test mode:	Charging & working mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

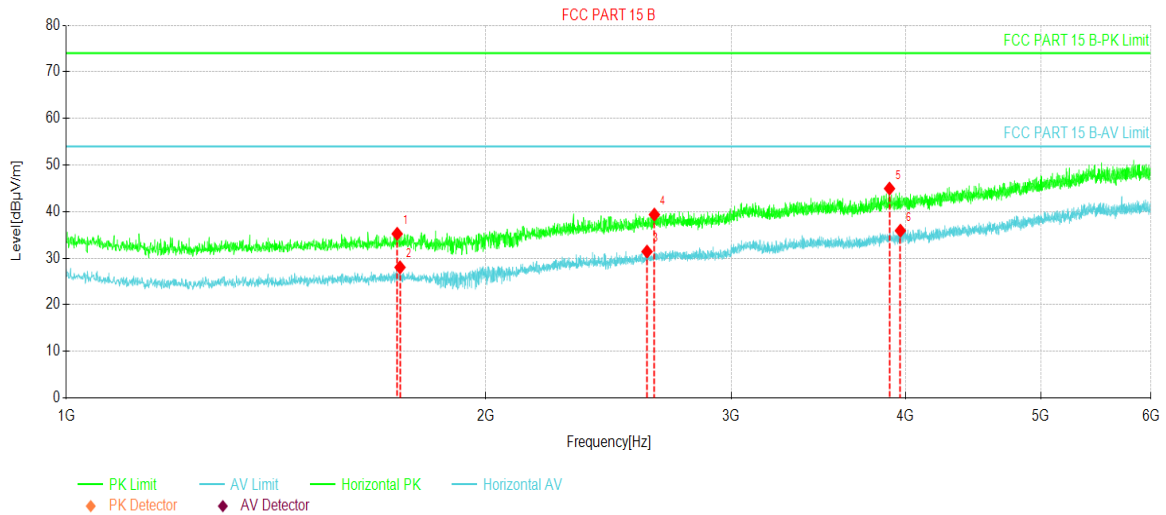


NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1719.37	58.52	36.79	-21.73	74.00	37.21	PK	Vertical
2	1720.00	49.76	28.03	-21.73	54.00	25.97	AV	Vertical
3	2601.25	57.32	39.27	-18.05	74.00	34.73	PK	Vertical
4	2611.87	49.49	31.48	-18.01	54.00	22.52	AV	Vertical
5	3793.12	49.11	35.19	-13.92	54.00	18.81	AV	Vertical
6	3811.25	57.64	43.80	-13.84	74.00	30.20	PK	Vertical

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

Product Name:	Baby Anti Abandonment Car Seat key	Product Model:	Hiup key H6
Test By:	Mike	Test mode:	Charging & working mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



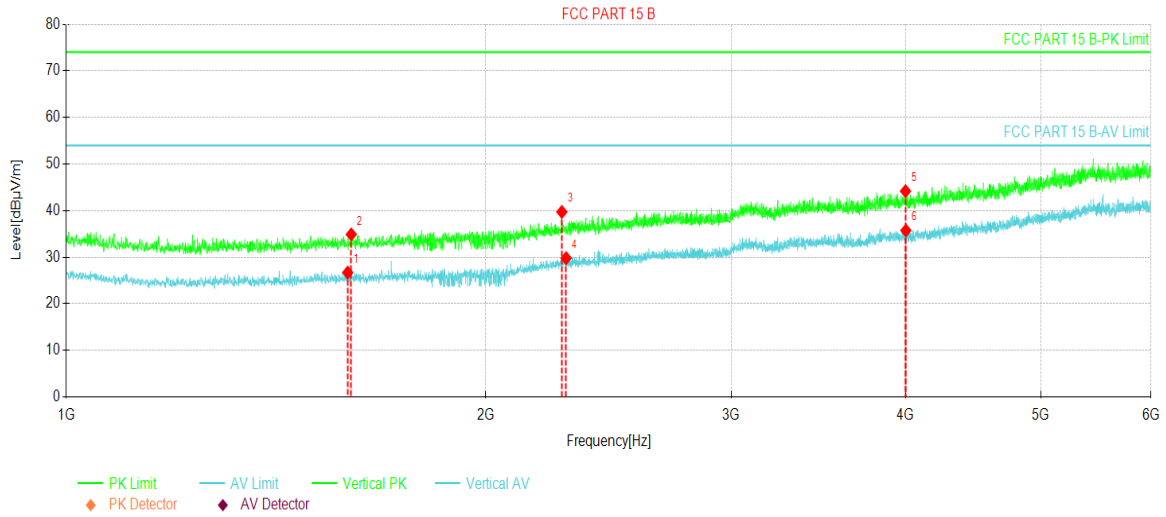
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1727.50	56.93	35.23	-21.70	74.00	38.77	PK	Horizontal
2	1735.62	49.68	28.02	-21.66	54.00	25.98	AV	Horizontal
3	2610.00	49.41	31.40	-18.01	54.00	22.60	AV	Horizontal
4	2641.87	57.22	39.35	-17.87	74.00	34.65	PK	Horizontal
5	3895.62	58.46	44.93	-13.53	74.00	29.07	PK	Horizontal
6	3966.25	49.14	35.89	-13.25	54.00	18.11	AV	Horizontal

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

With Plastic Enclosure:

Product Name:	Baby Anti Abandonment Car Seat key	Product Model:	Hiup key H6
Test By:	Mike	Test mode:	Charging & working mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

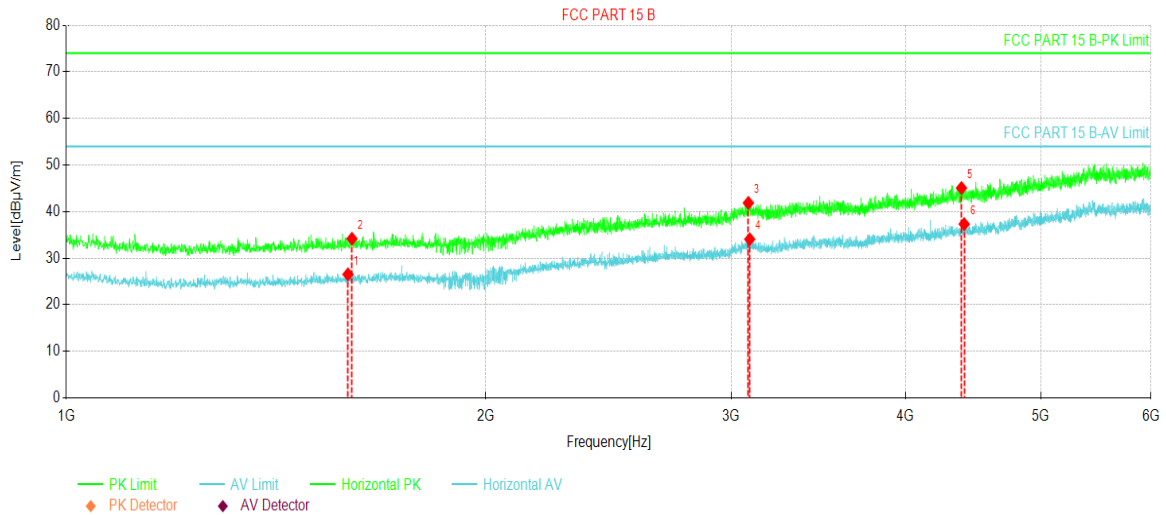


NO.	Freq. [MHz]	Reading [dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	1591.87	48.97	26.69	-22.28	54.00	27.31	AV	Vertical
2	1601.25	57.12	34.88	-22.24	74.00	39.12	PK	Vertical
3	2267.50	58.95	39.71	-19.24	74.00	34.29	PK	Vertical
4	2283.75	48.93	29.78	-19.15	54.00	24.22	AV	Vertical
5	4000.00	57.29	44.17	-13.12	74.00	29.83	PK	Vertical
6	4002.50	48.84	35.73	-13.11	54.00	18.27	AV	Vertical

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preampifier Factor.

Product Name:	Baby Anti Abandonment Car Seat key	Product Model:	Hiup key H6
Test By:	Mike	Test mode:	Charging & working mode
Test Frequency:	1000 MHz ~ 6000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1592.50	48.80	26.52	-22.28	54.00	27.48	AV	Horizontal
2	1603.12	56.40	34.16	-22.24	74.00	39.84	PK	Horizontal
3	3085.62	57.94	41.86	-16.08	74.00	32.14	PK	Horizontal
4	3092.50	50.08	34.06	-16.02	54.00	19.94	AV	Horizontal
5	4387.50	56.29	45.05	-11.24	74.00	28.95	PK	Horizontal
6	4406.87	48.46	37.31	-11.15	54.00	16.69	AV	Horizontal

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

-----End of report-----