

Prüfbericht-Nr.: <i>Test report no.:</i>	CN21W1AW 001	Auftrags-Nr.: <i>Order no.:</i>	168345853	Seite 1 von 28 <i>Page 1 of 28</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2021-11-16	
Auftraggeber: <i>Client:</i>	Robert Bosch GmbH Gerhard-Kindler-Strasse 3, Reutlingen Baden-Wuerttemberg 72770 Germany			
Prüfgegenstand: <i>Test item:</i>	SmartphoneGrip			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	BSP3200 (Trademark: BOSCH)			
Auftrags-Inhalt: <i>Order content:</i>	Type test			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart B Section 15.109 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart C Section 15.215			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2021-12-03	Refer to photos document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003176714-001			
Prüfzeitraum: <i>Testing period:</i>	2021-12-14 – 2021-12-31			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2022-01-21				
	Signed by: Alex Lan		Signed by: Winnie Hou	
Stellung / Position	Senior Project Engineer	Ausstellungsdatum: <i>Issue date:</i> 2022-01-24	Stellung / Position Department Manager	
Sonstiges / Other:	FCC ID: 2AWRC-BSP3200			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>			
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 20dB BANDWIDTH

RESULT: Pass

5.1.3 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.4 RADIATED EMISSION

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huangguan Road Middle, Longhua District, Shenzhen 518110, China

FCC Registration No.: CN1260

IC Registration No.: 25069 and the CAB identifier is CN0078.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

TÜV Rheinland (Shenzhen) Co., Ltd.

Radio Spectrum Testing				
Description	Manufacturer	Model	Serial No.	Cal. Until
Signal Analyzer	Rohde & Schwarz	FSV 40	101441	2022-08-09
OSP	Rohde & Schwarz	OSP 150	101017	2021-12-20
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	Rohde & Schwarz	WMS32 (V10.40.10)	N/A	N/A
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
Unwanted Emission Testing				
Description	Manufacturer	Model	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR 7	102021	2022-08-10
Signal Analyzer	R&S	FSV 40	101439	2022-08-09
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2022-08-09
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2022-08-09
Amplifier	R&S	SCU-18F	180070	2022-08-09
Amplifier	R&S	SCU40A	100475	2022-08-09
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2022-08-08
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2022-08-08
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2022-08-08
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2022-09-13
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A

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Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22
EMI Test Receiver	R&S	ESR 7	102021	2022-08-10
Radiated Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
3m SAC	ETS-Lindgren	SAC3	CT001632-Q1362	2024-04-26
EMI Test Receiver	R&S	ESR7	102111	2022-12-01
Horn Antenna	R&S	HF907	102706	2022-08-07
Preamplifier (1-18GHz)	FIT	SCU-18F	180077	2022-08-13
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	2022-12-12
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cisp})
Radiated Emission (3m SAC)	Level accuracy (30MHz to 1000MHz)	± 4.52 dB	± 6.3 dB
	Level accuracy (above 1000MHz)	± 4.37 dB	N/A

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huangguan Road Middle, Longhua District, Shenzhen 518110, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a SmartphoneGrip which supports wireless charging function, it is installed on the eBike system.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	SmartphoneGrip
Type Designation	BSP3200
Trademark	BOSCH
Input Voltage	DC 5V, 1.5A via BDS
Output Voltage	DC 5V, 1A for USB port or DC 5V, 1A for Wireless
Technical Specification of WPT	
Operating Frequency	111-205KHz
Modulation	FSK
Antenna Type	Induction Coil Antenna
Antenna Gain	0 dBi
Antenna number	1
Wireless Charger output power	Max. 5W

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless charging
- B. On, Charging via USB port
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- ID Label and Location Info

- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5&6. All testing were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N or Rating
Wireless charge Load	YBZ	N/A	N/A
BDS (Bosch DC power supply)	BOSCH	BDS3210	Input: DC 13.5V, 1.5A Output: DC 5V, 1.5A
Dummy Load	BOSCH	N/A	N/A
CAN optical-converter	Customer Provide	N/A	N/A
Optical fiber isolator	Nanjing Rongxiang Test Equipment Co., LTD.	FOL-A1M	N/A
Laptop	Lenovo	ThinkPad T480	10Q67059
oscilloscope	Tektronix	MDO3102	C047737

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

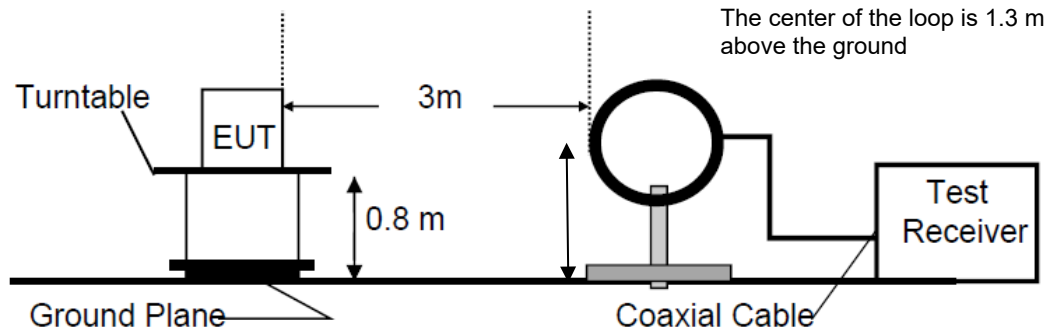
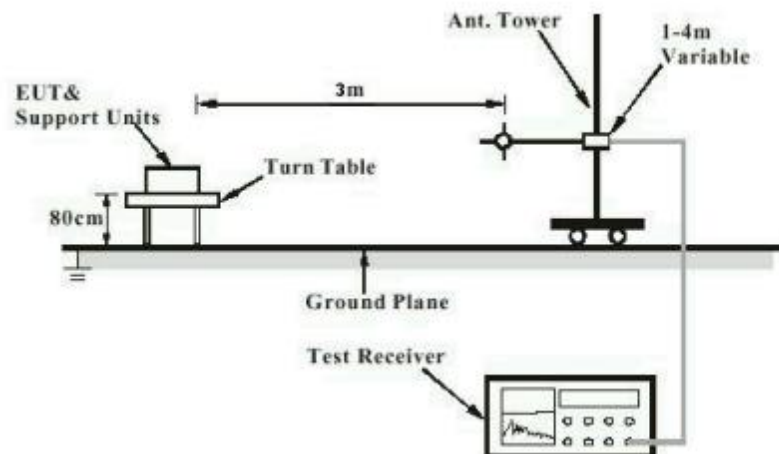


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : Part 15.203

According to the manufacturer declared, the EUT has an internal antenna, and the antenna is permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 20dB Bandwidth

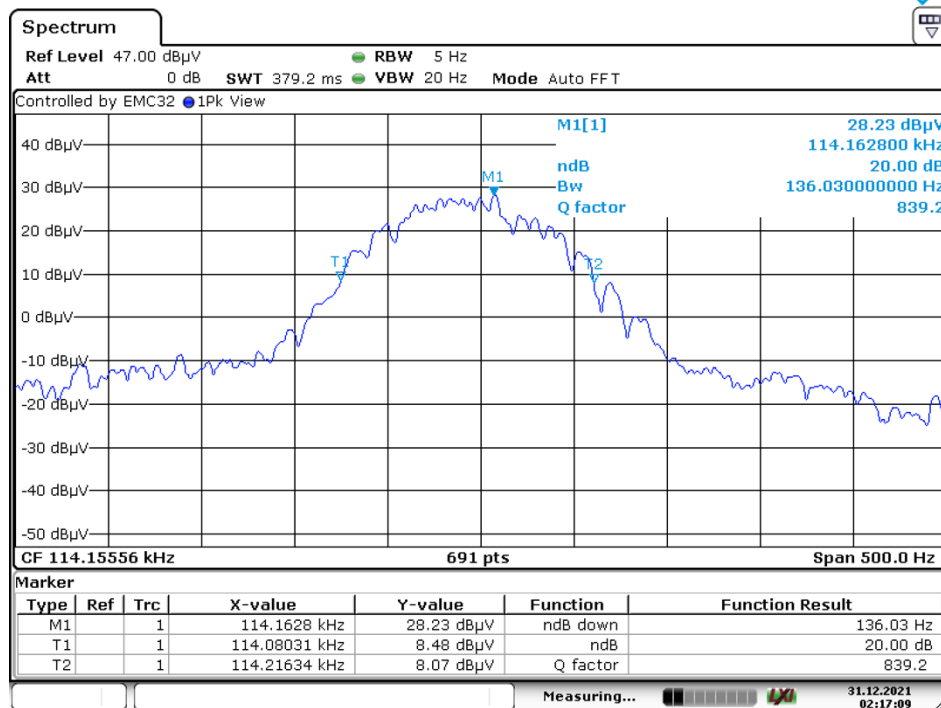
RESULT:
Pass
Test Specification

Test standard : FCC Part 15.215(c)
 Basic standard : ANSI C63.10: 2013
 Kind of test site : Shielded Room

Test Setup

Date of testing : 2021-12-31
 Input voltage : DC 13.5V via BDS
 Operation mode : A
 Ambient temperature : 23 °C
 Relative humidity : 45 %
 Atmospheric pressure : 101 kPa

For details refer to following test result.



Date: 31.DEC.2021 02:17:10

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5.1.3 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.209 & 15.205
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a)
Kind of test site	: 3m Semi-anechoic Chamber

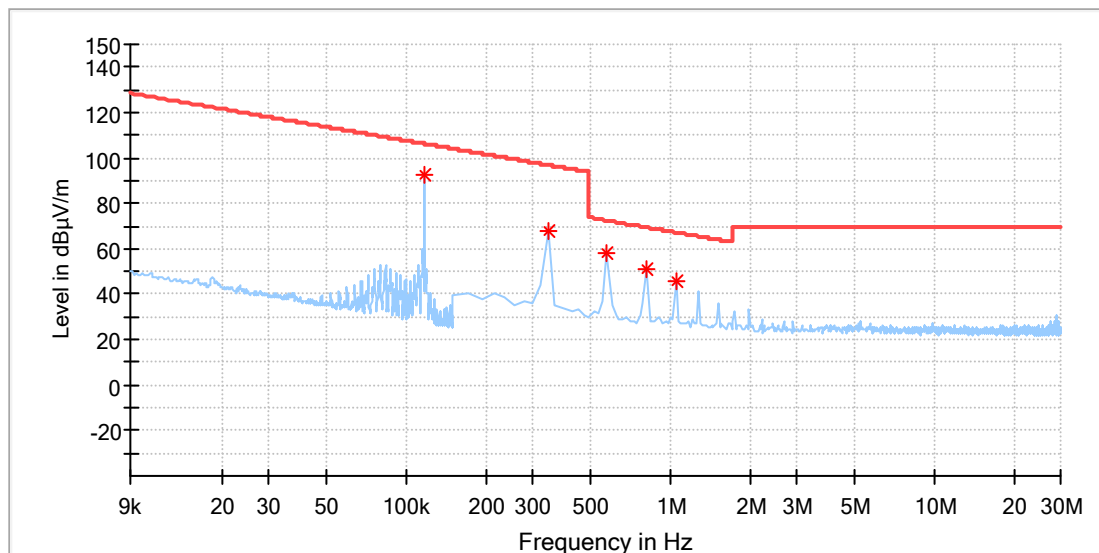
Test Setup

Date of testing	: 2021-12-20 to 2021-12-28
Input voltage	: DC 13.5V via BDS
Operation mode	: A
Ambient temperature	: 23 °C
Relative humidity	: 45 %
Atmospheric pressure	: 101 kPa

Refer to following test plots for details of test result.

EUT Information

EUT Name:	Smartphone Grip
Model:	BSP3200
Test Mode:	Charging
Order No/Sample No:	168345853/A003183987-001
Test Voltage::	DC 13.5V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

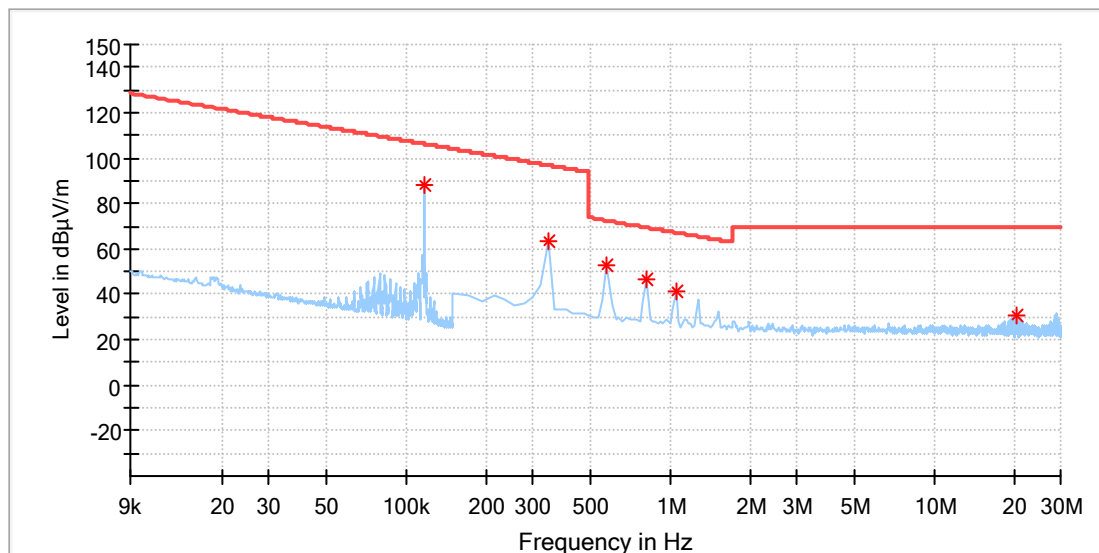


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.116966	92.21	106.24	14.02	100.0	X	166.0	20.1
0.341893	67.67	96.92	29.25	100.0	X	170.0	20.1
0.576429	57.71	72.39	14.68	100.0	X	170.0	20.1
0.810964	51.11	69.44	18.33	100.0	X	170.0	20.1
1.045500	45.58	67.24	21.66	100.0	X	147.0	20.1

EUT Information

EUT Name: Smartphone Grip
 Model: BSP3200
 Test Mode: Charging
 Order No/Sample No: 168345853/A003183987-001
 Test Voltage:: DC 13.5V From DC Source
 Remark: Temp 22 Humi:52%
 Test Standard: FCC Part 15C
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

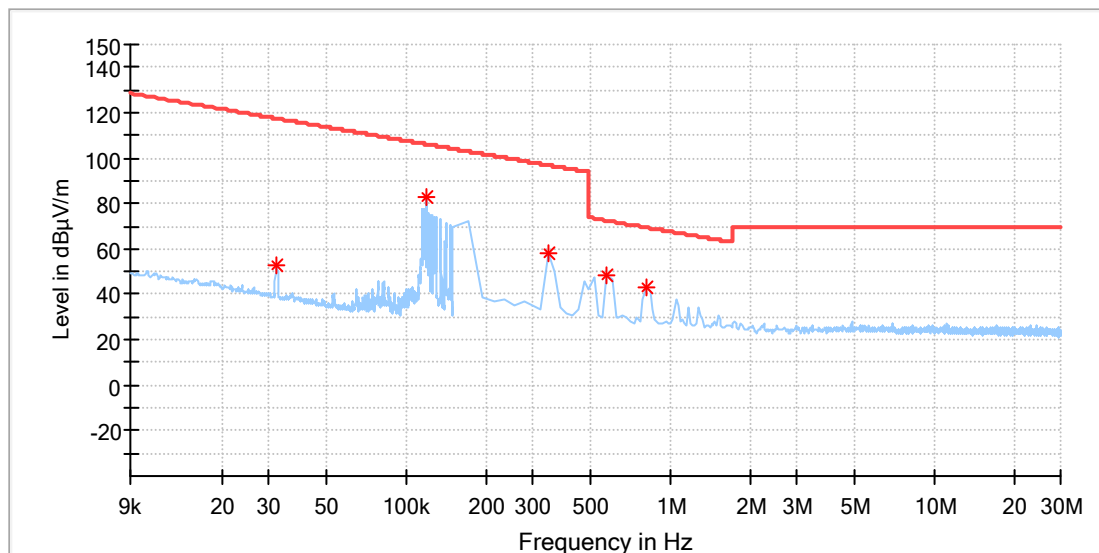


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.116664	88.10	106.26	18.16	100.0	Y	262.0	20.1
0.341893	63.33	96.92	33.60	100.0	Y	263.0	20.1
0.576429	53.03	72.39	19.36	100.0	Y	263.0	20.1
0.810964	46.47	69.44	22.97	100.0	Y	263.0	20.1
1.045500	41.46	67.24	25.78	100.0	Y	263.0	20.1
20.298750	30.48	69.50	39.02	100.0	Y	334.0	20.6

EUT Information

EUT Name:	Smartphone Grip
Model:	BSP3200
Test Mode:	Charging
Order No/Sample No:	168345853/A003183987-001
Test Voltage::	DC 13.5V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

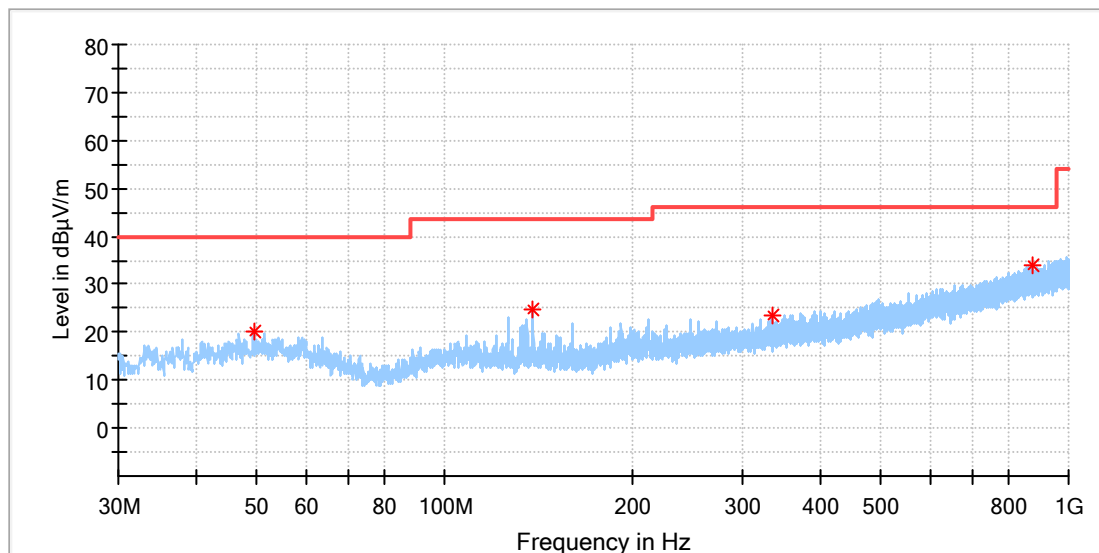


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.032164	52.47	117.44	64.98	100.0	Z	264.0	20.1
0.119484	82.45	106.05	23.60	100.0	Z	171.0	20.1
0.341893	58.44	96.92	38.49	100.0	Z	167.0	20.1
0.576429	48.59	72.39	23.80	100.0	Z	167.0	20.1
0.810964	43.21	69.44	26.22	100.0	Z	167.0	20.1

EUT Information

EUT Name:	Smartphone Grip
Model:	BSP3200
Test Mode:	Charging
Order No/Sample No:	168345853/A003183987-001
Test Voltage::	DC 13.5V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

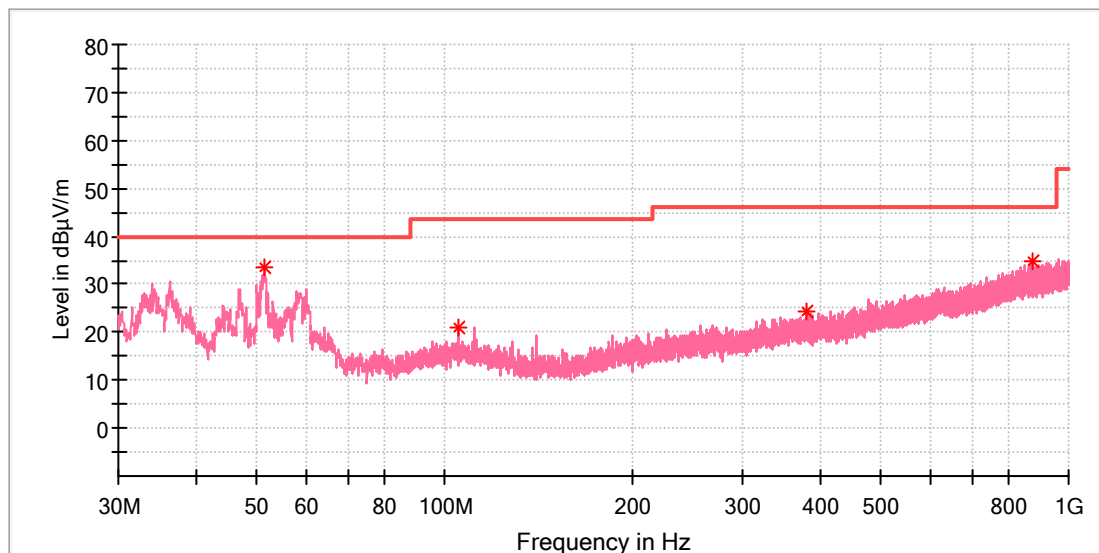


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.400000	20.22	40.00	19.78	100.0	H	0.0	-18.3
138.591500	24.59	43.50	18.91	100.0	H	270.0	-22.2
334.143500	23.64	46.00	22.36	100.0	H	43.0	-15.3
878.701500	33.95	46.00	12.05	100.0	H	156.0	-5.2

EUT Information

EUT Name:	Smartphone Grip
Model:	BSP3200
Test Mode:	Charging
Order No/Sample No:	168345853/A003183987-001
Test Voltage::	DC 13.5V From DC Source
Remark:	Temp 22 Humi:52%
Test Standard:	FCC Part 15C
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.485500	33.64	40.00	6.36	100.0	V	202.0	-18.3
105.320500	20.99	43.50	22.51	100.0	V	194.0	-18.8
379.927500	24.24	46.00	21.76	100.0	V	351.0	-14.2
878.119500	34.87	46.00	11.13	100.0	V	359.0	-5.2

5.1.4 Radiated Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.209
Basic standard	: ANSI C63.4: 2014
Frequency range	: 30 - 6000MHz
Limits	: Refer to 15.209(a)
Kind of test site	: 3m Semi-anechoic Chamber

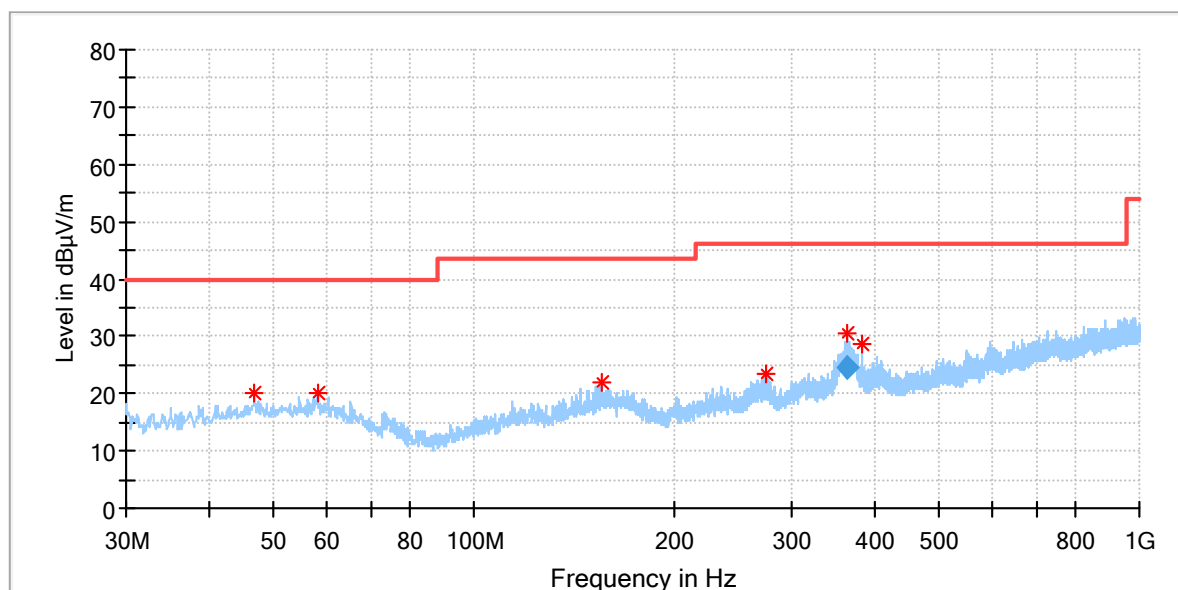
Test Setup

Date of testing	: 2021-12-14
Input voltage	: DC 13.5V via BDS
Operation mode	: A, B
Ambient temperature	: 22 °C
Relative humidity	: 52 %
Atmospheric pressure	: 101 kPa

Refer to following test plots for details of test result.

EUT Information

EUT Name: Smartphone Grip
Model: 168345853 130
Order No: BSP3200
Test Mode: wireless load (5.0W)
Test Voltage: DC 13.5V
Test By: Kevin Zhou
Review By: Gary Chen
Remark: 3m Chamber



Critical Freqs

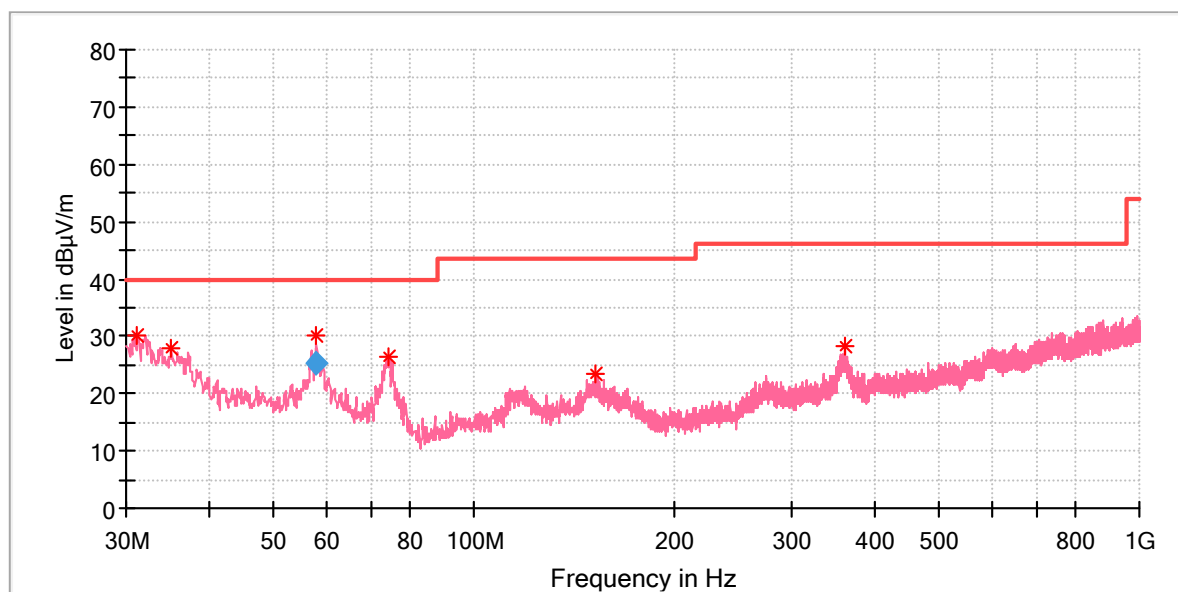
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.684000	20.09	40.00	19.91	200.0	H	7.0	21.1
58.130000	20.23	40.00	19.77	200.0	H	145.0	21.4
155.809000	22.07	43.50	21.43	200.0	H	220.0	21.5
273.761000	23.34	46.00	22.66	100.0	H	304.0	20.4
363.272000	30.34	46.00	15.66	100.0	H	171.0	22.8
383.856000	28.48	46.00	17.52	100.0	H	156.0	22.7

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
363.272000	24.44	46.00	21.56	1000.0	120.000	100.0	H	171.0	22.8

EUT Information

EUT Name: Smartphone Grip
 Model: 168345853 130
 Order No: BSP3200
 Test Mode: wireless load (5.0W)
 Test Voltage: DC 13.5V
 Test By: Kevin Zhou
 Review By: Gary Chen
 Remark: 3m Chamber



Critical Freqs

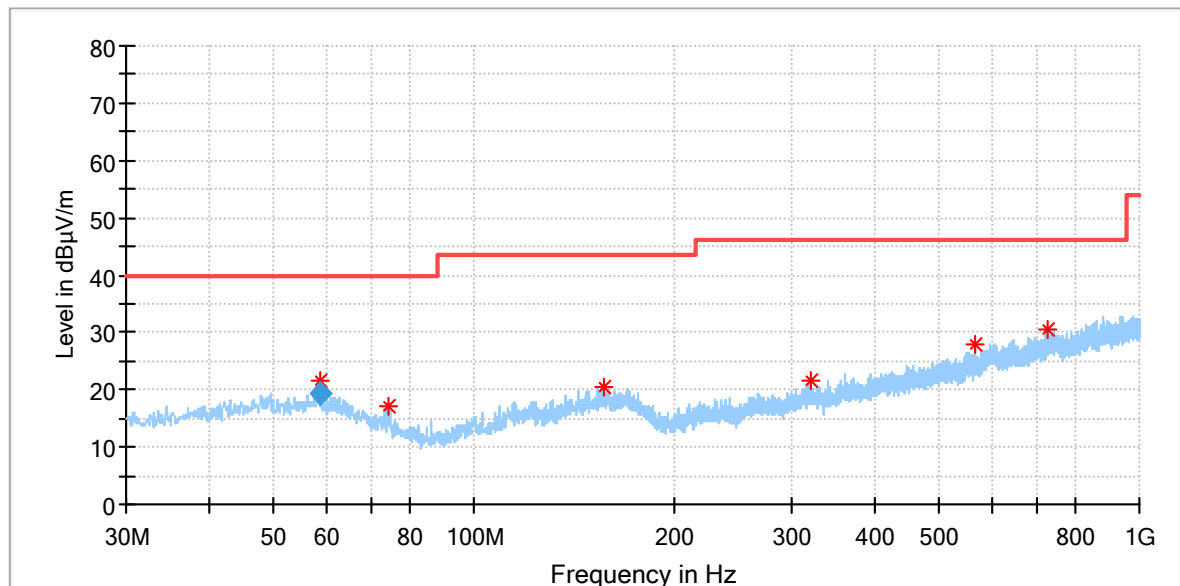
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.164000	30.10	40.00	9.90	100.0	V	350.0	18.0
35.141000	27.93	40.00	12.07	100.0	V	158.0	18.5
57.973000	30.09	40.00	9.91	100.0	V	264.0	21.4
74.523000	26.60	40.00	13.40	200.0	V	104.0	17.0
152.705000	23.58	43.50	19.92	200.0	V	7.0	21.0
361.837000	28.33	46.00	17.67	100.0	V	233.0	22.8

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
57.973000	25.36	40.00	14.64	1000.0	120.000	100.0	V	264.0	21.4

EUT Information

EUT Name: Smartphone Grip
Model: BSP3200
Order No: 168345853 130
Test Mode: USB load (5V, 1A)
Test Voltage: DC 13.5V
Test By: Kevin Zhou
Review By: Gary Chen
Remark: 3m Chamber



Critical_Freqs

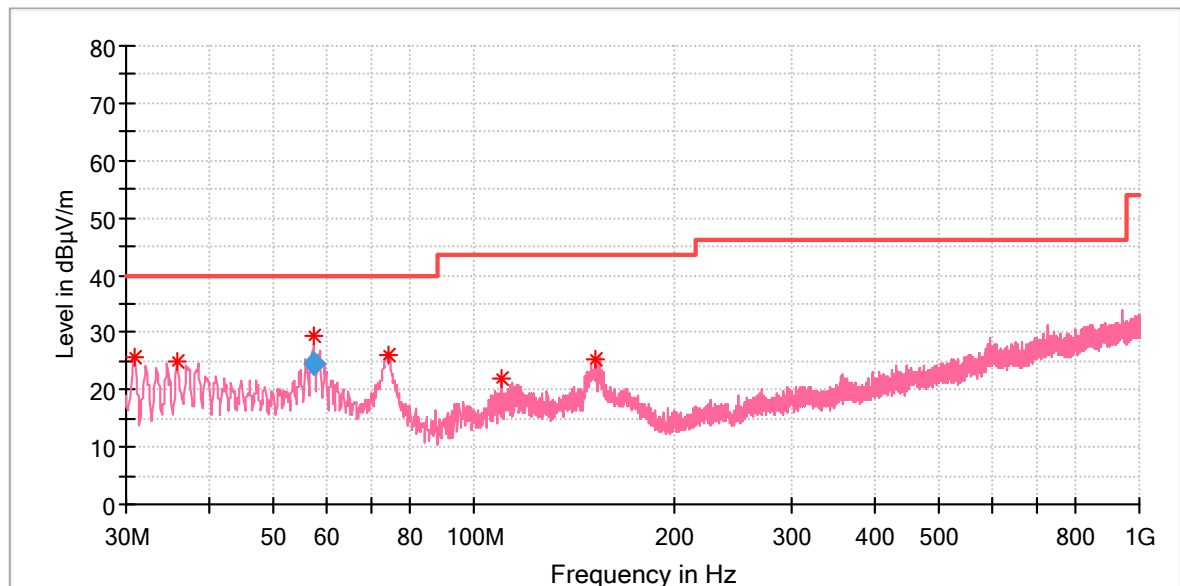
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.732000	21.56	40.00	18.44	100.0	H	292.0	21.2
74.135000	17.24	40.00	22.76	100.0	H	147.0	17.1
156.294000	20.45	43.50	23.05	100.0	H	40.0	21.5
319.933000	21.63	46.00	24.37	100.0	H	28.0	21.9
566.507000	27.94	46.00	18.06	200.0	H	295.0	26.4
727.139000	30.41	46.00	15.59	200.0	H	299.0	29.6

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.732000	19.20	40.00	20.80	1000.0	120.000	100.0	H	292.0	21.2

EUT Information

EUT Name: Smartphone Grip
Model: BSP3200
Order No: 168345853 130
Test Mode: USB load (5V, 1A)
Test Voltage: DC 13.5V
Test By: Kevin Zhou
Review By: Gary Chen
Remark: 3m Chamber



Critical_Freqs

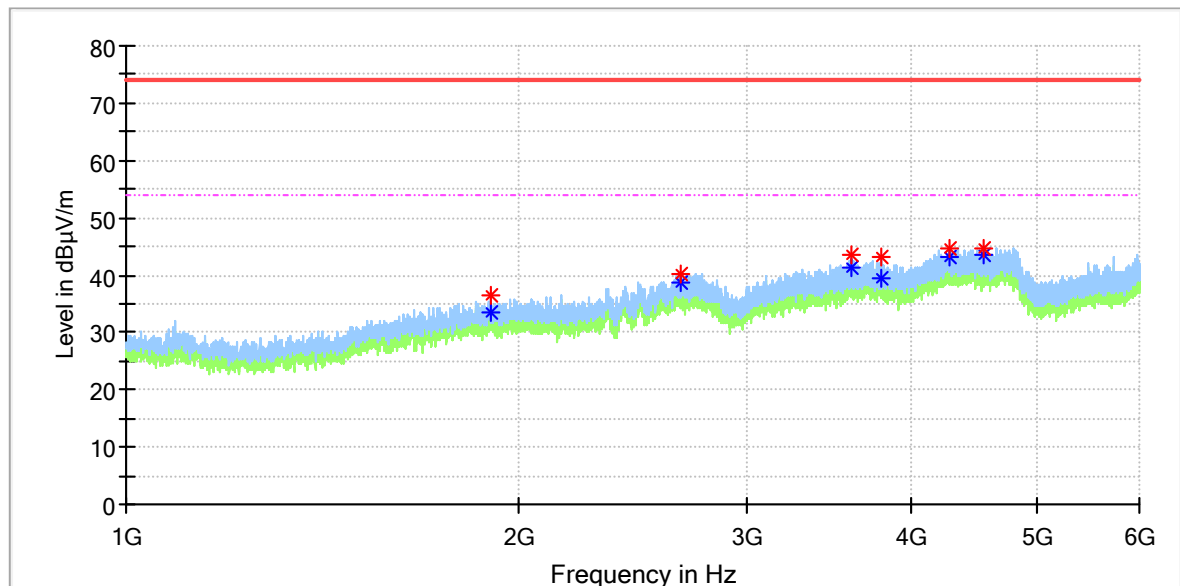
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.970000	25.59	40.00	14.41	100.0	V	0.0	18.0
35.723000	24.89	40.00	15.11	100.0	V	0.0	18.7
57.431000	29.42	40.00	10.58	100.0	V	257.0	21.3
74.135000	26.08	40.00	13.92	200.0	V	121.0	17.1
110.025000	22.06	43.50	21.44	100.0	V	168.0	17.9
152.705000	25.17	43.50	18.33	200.0	V	149.0	21.0

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
57.431000	24.55	40.00	15.45	1000.0	120.000	100.0	V	257.0	21.3

EUT Information

EUT Name: Smartphone Grip
Model: BSP3200
Order No: 168345853 130
Test Mode: USB load (5V, 1A)
Test Voltage: DC 13.5V
Test By: Kevin Zhou
Review By: Gary Chen
Remark: 3m Chamber

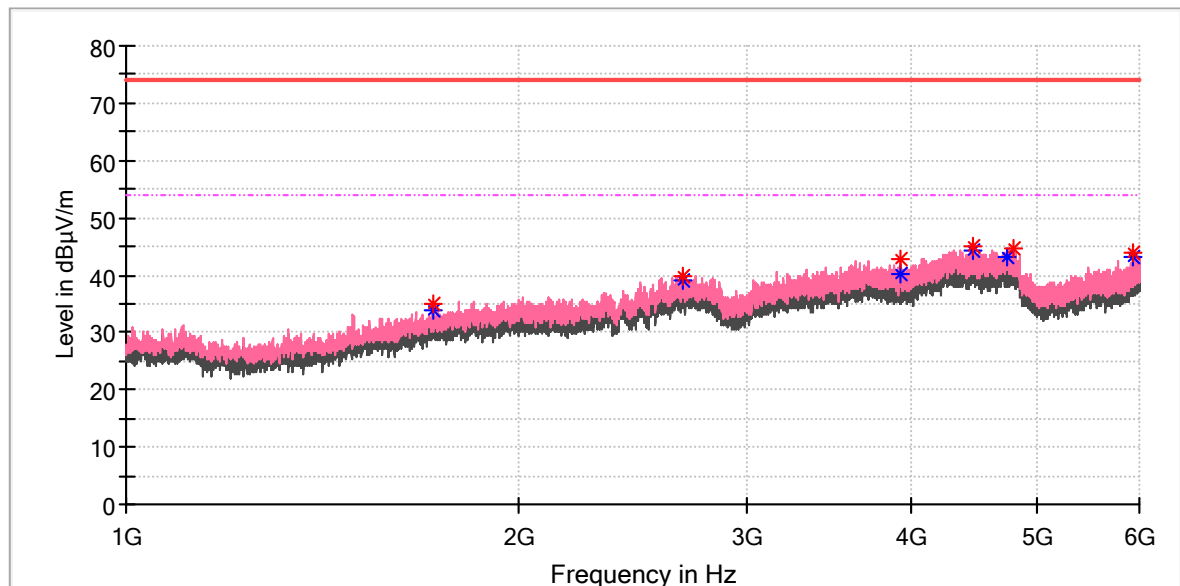


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1908.500000	---	33.46	54.00	20.54	100.0	H	331.0	-7.8
1908.500000	36.59	---	74.00	37.41	100.0	H	331.0	-7.8
2667.500000	---	38.69	54.00	15.31	100.0	H	71.0	-3.3
2667.500000	40.27	---	74.00	33.73	100.0	H	71.0	-3.3
3604.000000	---	41.32	54.00	12.68	100.0	H	331.0	-0.6
3604.000000	43.53	---	74.00	30.47	100.0	H	331.0	-0.6
3804.000000	---	39.39	54.00	14.61	100.0	H	46.0	0.0
3804.000000	43.08	---	74.00	30.92	100.0	H	46.0	0.0
4284.500000	---	43.00	54.00	11.00	100.0	H	160.0	2.1
4284.500000	44.50	---	74.00	29.50	100.0	H	160.0	2.1
4553.000000	---	43.35	54.00	10.65	100.0	H	0.0	2.0
4553.000000	44.59	---	74.00	29.41	100.0	H	0.0	2.0

EUT Information

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Order No: 168345853 130
Test Mode: USB load (5V, 1A)
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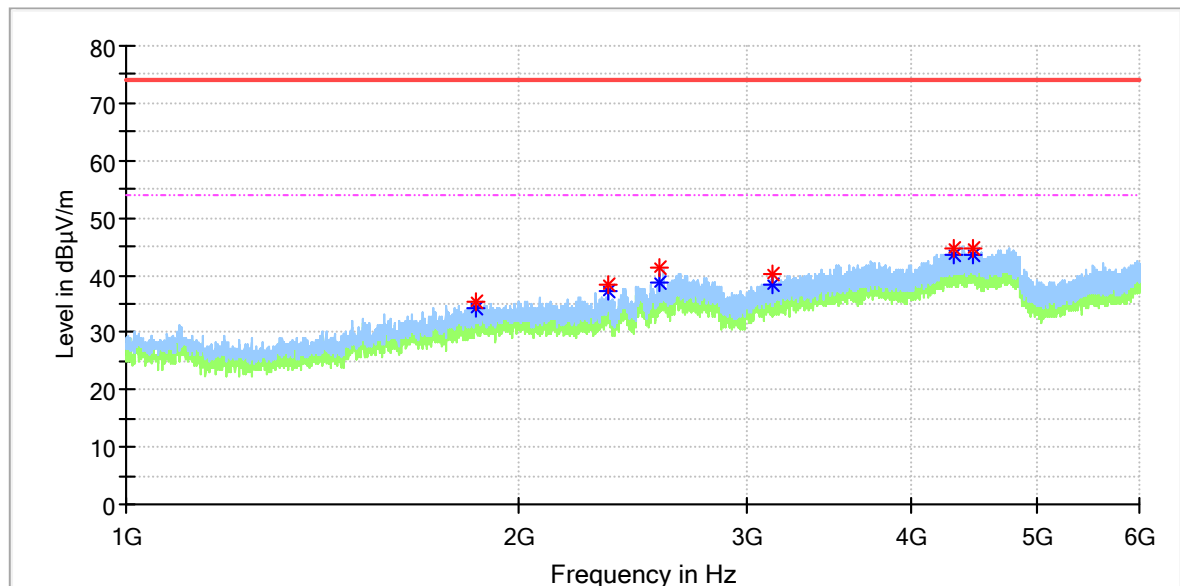


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1718.500000	35.05	---	74.00	38.95	100.0	V	175.0	-9.1
1718.500000	---	33.73	54.00	20.27	100.0	V	175.0	-9.1
2674.500000	---	38.92	54.00	15.08	100.0	V	133.0	-3.2
2674.500000	39.95	---	74.00	34.05	100.0	V	133.0	-3.2
3938.000000	---	40.36	54.00	13.64	100.0	V	38.0	-0.2
3938.000000	42.69	---	74.00	31.31	100.0	V	38.0	-0.2
4477.500000	45.19	---	74.00	28.81	100.0	V	129.0	2.0
4477.500000	---	44.41	54.00	9.59	100.0	V	129.0	2.0
4742.000000	---	43.10	54.00	10.90	100.0	V	207.0	2.8
4804.000000	44.61	---	74.00	29.39	100.0	V	114.0	2.3
5932.000000	---	43.15	54.00	10.85	100.0	V	86.0	1.9
5932.000000	43.90	---	74.00	30.10	100.0	V	86.0	1.9

EUT Information

EUT Name: Smartphone Grip
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Order No: 168345853 130
Test Mode: wireless load (5.0W)
Test Voltage: DC 13.5V
Test By: Kevin Zhou
Review By: Gary Chen
Remark: 3m Chamber

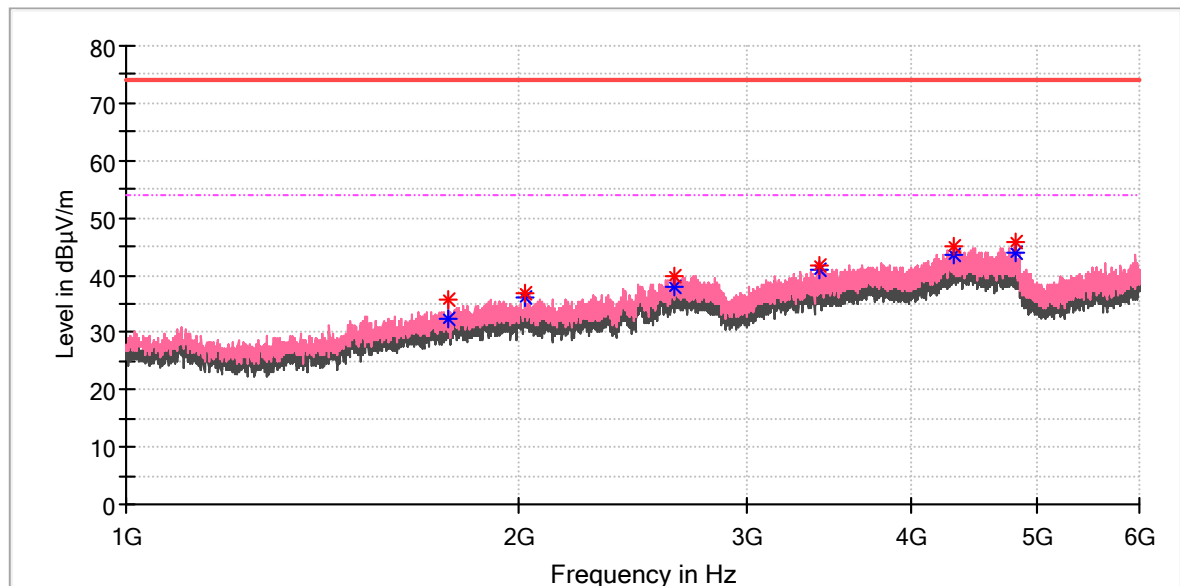


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1854.000000	---	34.40	54.00	19.60	100.0	H	270.0	-8.1
1854.000000	35.35	---	74.00	38.65	100.0	H	270.0	-8.1
2349.000000	---	37.24	54.00	16.76	100.0	H	298.0	-6.2
2349.000000	38.40	---	74.00	35.60	100.0	H	298.0	-6.2
2572.000000	---	38.53	54.00	15.47	100.0	H	298.0	-3.9
2572.000000	41.14	---	74.00	32.86	100.0	H	298.0	-3.9
3137.500000	---	38.49	54.00	15.51	100.0	H	326.0	-2.8
3137.500000	40.12	---	74.00	33.88	100.0	H	326.0	-2.8
4326.500000	---	43.56	54.00	10.44	100.0	H	196.0	2.2
4326.500000	44.75	---	74.00	29.25	100.0	H	196.0	2.2
4472.500000	---	43.64	54.00	10.36	100.0	H	58.0	2.0
4472.500000	44.70	---	74.00	29.30	100.0	H	58.0	2.0

EUT Information

EUT Name: Smartphone Grip
Model: BSP3200
Order No: 168345853 130
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Test Voltage: DC 13.5V
Test By: Kevin Zhou
Review By: Gary Chen
Remark: 3m Chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1765.000000	35.79	---	74.00	38.21	100.0	V	324.0	-8.7
1765.000000	---	32.30	54.00	21.70	100.0	V	324.0	-8.7
2024.000000	36.94	---	74.00	37.06	100.0	V	217.0	-7.2
2024.000000	---	35.91	54.00	18.09	100.0	V	217.0	-7.2
2640.000000	---	37.78	54.00	16.22	100.0	V	19.0	-3.3
2640.500000	39.76	---	74.00	34.24	100.0	V	208.0	-3.3
3411.500000	41.60	---	74.00	32.40	100.0	V	79.0	-1.5
3411.500000	---	40.90	54.00	13.10	100.0	V	79.0	-1.5
4315.500000	44.96	---	74.00	29.04	100.0	V	153.0	2.2
4315.500000	---	43.61	54.00	10.39	100.0	V	153.0	2.2
4821.000000	45.58	---	74.00	28.42	100.0	V	22.0	2.1
4821.000000	---	43.98	54.00	10.02	100.0	V	22.0	2.1

6 Photographs of the Test Set-Up

Refer to test photo document.

7 List of Tables

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