

Report No.: ZR/2019/A000306-01

Rev.: 01

Page: 1 of 24

TEST REPORT

Application No: ZR/2019/A0003
Applicant: Sony Mobile Communications INC
Address of Applicant: 4-12-3 Higashi-shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan
Manufacturer: Sony Mobile Communications INC
Address of Manufacturer: 4-12-3 Higashi-shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan
EUT Description: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC
Model No.: PM-1291-BV
Trade Mark: Sony
FCC ID: PY7-50352P
Standard(s) : FCC 47 CFR Part 15, Subpart B
Date of Receipt: 2019/10/15
Date of Test: 2019/10/16 to 2019/12/20
 2022/1/7 (For Tianjin Dongdian Testing Service Co., Ltd.)
Date of Issue: 2022/4/29

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Jim Huang



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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2022/4/29		Original

Prepared By	<i>Wick Feng</i>
	(Wick Feng) / Test Supervisor
Checked By	<i>Daniel Wang</i>
	(Daniel Wang) / Reviewer

This report supersedes our previous report **ZR/2019/A000306**, issued on **2019-10-29**, which is hereby deemed null and void.



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Test Summary

Emission Part					
Item	Standard	Method	Requirement	Result	Test Lab ^[1]
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass	B
Radiated Emissions	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass	B

Note^[1]:
 Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
 Lab B Tianjin Dongdian Testing Service Co., Ltd.

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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1 General Information

EUT Description:	GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, GPS and NFC		
Model No.:	PM-1291-BV		
Trade Mark:	Sony		
Hardware Version:	A		
Software Version:	0.96		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
Wi-Fi 5G	5150~5850	5150~5850	
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



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1.1 Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
Charger	N/A	UCH20	N/A	N/A
USB Cable	N/A	UCB20	N/A	N/A
Headset	N/A	MH410C	N/A	N/A

1.2 Test peripherals

Device	Manufacturer	Model No.	Serial No.	Remark
Laptop	HP	HP ProBook 455R G6	5CD0122F5D	N/A
Router	TP-LINK	TL-WDR6500	1173702008704	N/A

1.3 Test Location

Lab A:	
Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Lab B:	
Company:	Tianjin Dongdian Testing Service Co., Ltd
Address:	Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park, Development Area, Tianjin, China.
Tel:	+86-22-58038033
E-mail:	ddt@dgddt.com, http://www.ddttest.com
Test engineer:	Ethan Bao



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1.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:
<ul style="list-style-type: none"> • A2LA (Certificate No. 3816.01) SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01. • VCCI The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively. • Innovation, Science and Economic Development Canada SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0006. IC#: 4620C.
Lab B:
<p>Tianjin Dongdian Testing Service Co., Ltd. Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China., 300385 Tel: +86-22-58038033, http://www.ddttest.com, Email: ddt@dgddt.com</p> <p>NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0 CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402 FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676 ISED (Innovation, Science and Economic Development Canada) Company Number: 27768 Conformity Assessment Body Identifier: CN0125 VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122</p>

1.5 Deviation from Standards

None

1.6 Abnormalities from Standard Conditions

None



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2 Emission Test Results

2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Class A		
	Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
	150kHz ~ 500kHz	79	66
	500kHz ~ 30MHz	73	60
	Class B		
	Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*	
500kHz ~ 5MHz	56	46	
5MHz ~ 30MHz	60	50	
Notes: 1. * Decreasing linearly with logarithm of frequency. 2. The lower limit shall apply at the transition frequencies.			
Note	Note 1: All emissions not reported below are too low against the prescribed limits.		

2.1.1 E.U.T. Operation

Operating Environment:

Temperature:	22.6±1°C
Humidity:	21±1%
Atmospheric Pressure:	21±1%
Pretest these modes to find the worst case:	j: Transfer data between the EUT and the PC k: Telecom Idle (GSM850 idle) + BT + NFC + WLAN + GPS Rx + playing MP4 + earphone + adapter l: Telecom Idle (GSM850 idle) + BT + NFC + WLAN + GPS Rx + camera (Front)+earphone + adapter m: Telecom Idle + BT + NFC + WLAN + GPS Rx + camera (Back)+ earphone + adapter n: GSM 850+BT+NFC+WLAN+GPS Rx + earphone + adapter p: WCDMA Band V+BT+NFC+WLAN+GPS Rx + earphone + adapter r: LTE band 5+BT+NFC+WLAN+GPS Rx + earphone + adapter
The worst case for final test:	j: Transfer data between the EUT and the PC k: Telecom Idle (GSM850 idle) + BT + NFC + WLAN + GPS Rx + playing MP4 + earphone + adapter



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2.1.2 Test Setup Procedures

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm (table-top device)/0.1m (floor stand device) above the ground plane.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.5 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

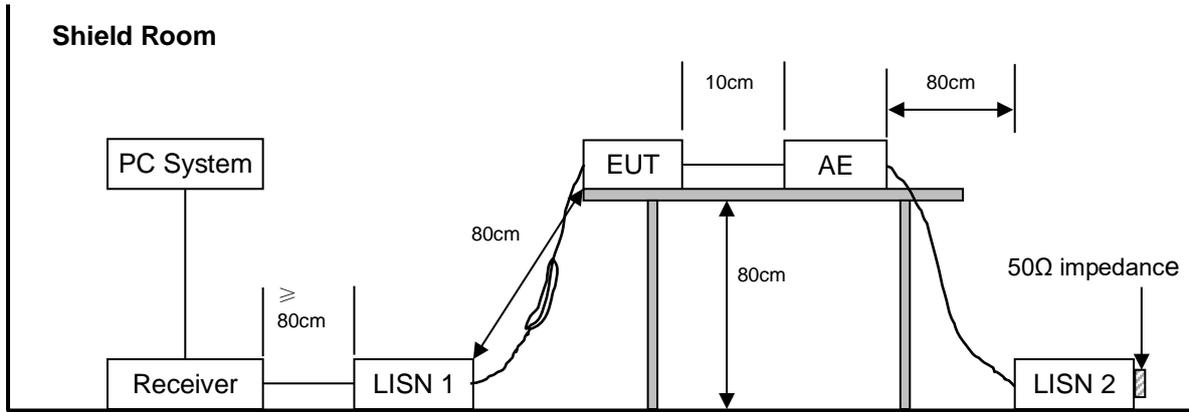
The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 KHz.

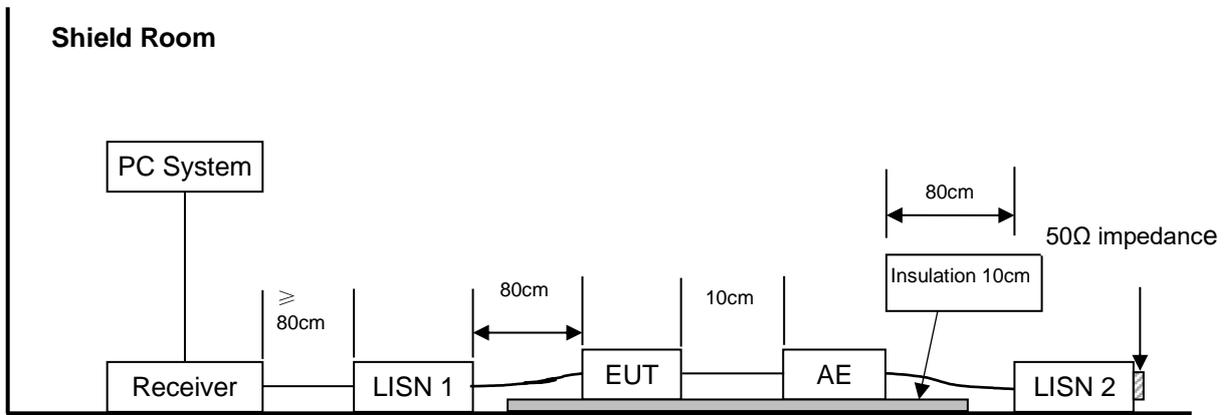


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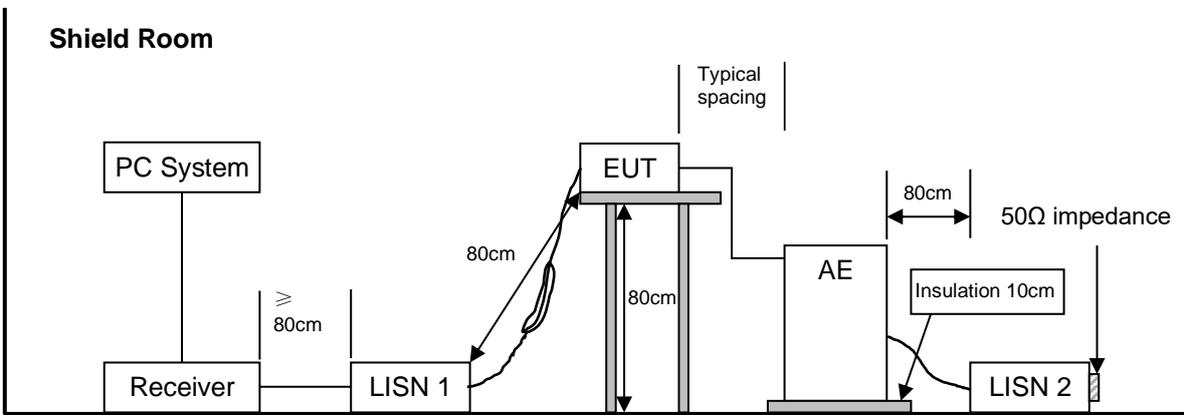
For table-top equipment



For floor standing equipment

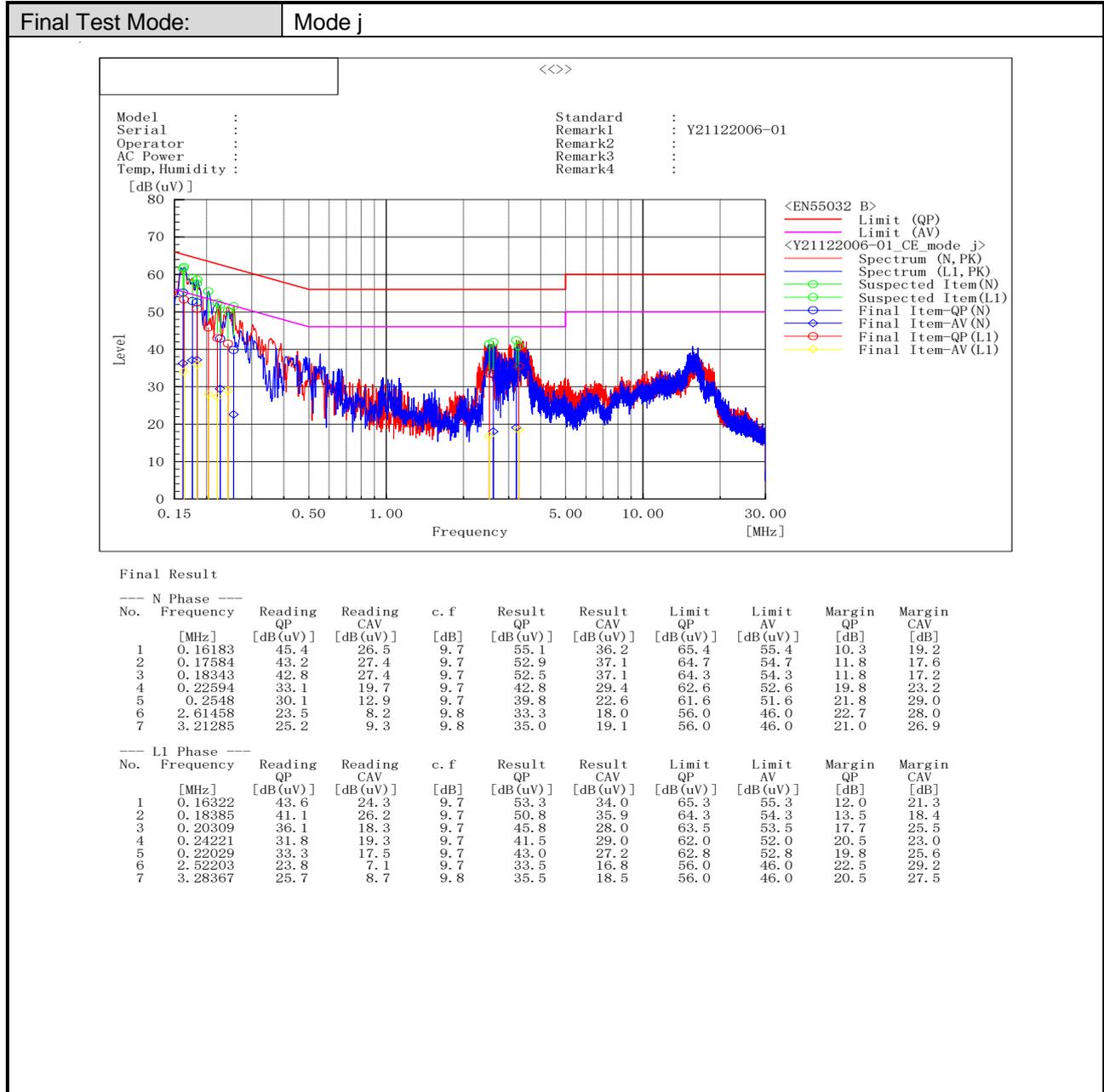


For combinations equipment



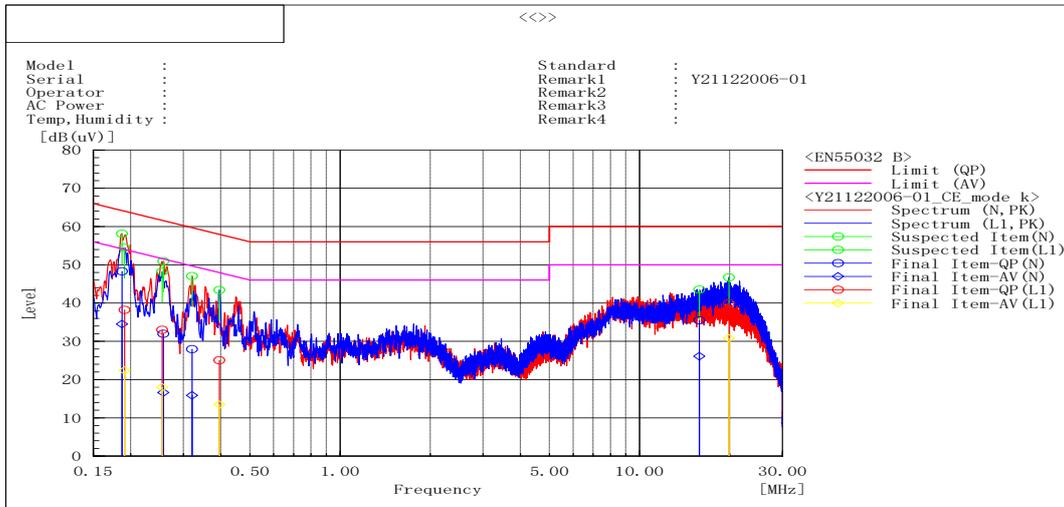
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2.1.3 Measurement Data



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Final Test Mode: Mode k



Final Result

--- N Phase ---										
No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c. f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.18699	38.6	24.8	9.7	48.3	34.5	64.2	54.2	15.9	19.7
2	0.25706	22.3	6.9	9.7	32.0	16.6	61.5	51.5	29.5	34.9
3	0.32043	18.2	6.1	9.7	27.9	15.8	59.7	49.7	31.8	33.9
4	15.84445	25.3	15.9	10.2	35.5	26.1	60.0	50.0	24.5	23.9

--- L1 Phase ---										
No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c. f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.19082	28.5	12.7	9.7	38.2	22.4	64.0	54.0	25.8	31.6
2	0.25464	23.3	8.3	9.7	33.0	18.0	61.6	51.6	28.6	33.6
3	0.3952	15.4	3.8	9.7	25.1	13.5	58.0	48.0	32.9	34.5
4	19.88045	29.9	20.8	10.0	39.9	30.8	60.0	50.0	20.1	19.2

Note1) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor

Note2) Line = Polarity of input power (Live or Neutral)

N : Abbreviation of Neutral Polarity, L1 : Abbreviation of Live Polarity,

Note3) Factor = LISN Insertion Loss + Cable Loss

Note4) Margin = Limit – Level (Quasi-Peak and/or C/Average)

Note5) C/Average : Abbreviation of CISPR Average



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2.2 Radiated Emissions

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Measurement Distance:	3m		
Limit:	Frequency Range (MHz)	Limit(dBμV/m)	Detector
	30--88	3	40.0
	88--216	3	43.5
	216--960	3	46.0
	960-1000	3	54.0
Note:	Above 1000		
	74.0(Peak),54.0(Average)		
Note:	Note: (1) The smaller limit shall apply at the cross point between two frequency bands. (2) All emissions not reported below are too low against the prescribed limits.		

2.2.1 E.U.T. Operation

Temperature:	19.6±1℃
Humidity:	21±1%
Atmospheric Pressure:	102.8±0.2 kPa
Pretest these modes to find the worst case:	j: Transfer data between the EUT and the PC k: Telecom Idle (GSM850 idle) + BT + NFC + WLAN + GPS Rx + playing MP4 + earphone + adapter l: Telecom Idle (GSM850 idle) + BT + NFC + WLAN + GPS Rx + camera (Front)+earphone + adapter m: Telecom Idle + BT + NFC + WLAN + GPS Rx + camera (Back)+ earphone + adapter n: GSM 850+BT+NFC+WLAN+GPS Rx + earphone + adapter p: WCDMA Band V+BT+NFC+WLAN+GPS Rx + earphone + adapter r: LTE band 5+BT+NFC+WLAN+GPS Rx + earphone + adapter
The worst case for final test:	j: Transfer data between the EUT and the PC l: Telecom Idle (GSM850 idle) + BT + NFC + WLAN + GPS Rx + camera (Front)+earphone + adapter k: Telecom Idle (GSM850 idle) + BT + NFC + WLAN + GPS Rx + playing MP4 + earphone + adapter



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2.2.2 Test Setup Procedures

Procedure of Preliminary Test

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm (table-top device)/0.1m (floor stand device) above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.5 and test equipment as described in clause 4.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

Mains cables, telephone lines or other connections to auxiliary equipment located outside the test are shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.

The antenna was placed at 3 meters (for 30MHz – 1GHz) and 3 meters (for above 1 GHz) away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.

The Analyzer / Receiver quickly scanned from 30MHz to 1GHz and 1GHz to 6GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

The test mode(s) described in clause 2.5 were scanned during the preliminary test:

After the preliminary scan, we found the test mode producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.

The Analyzer / Receiver scanned from 30MHz to 1GHz and 1GHz to 6GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

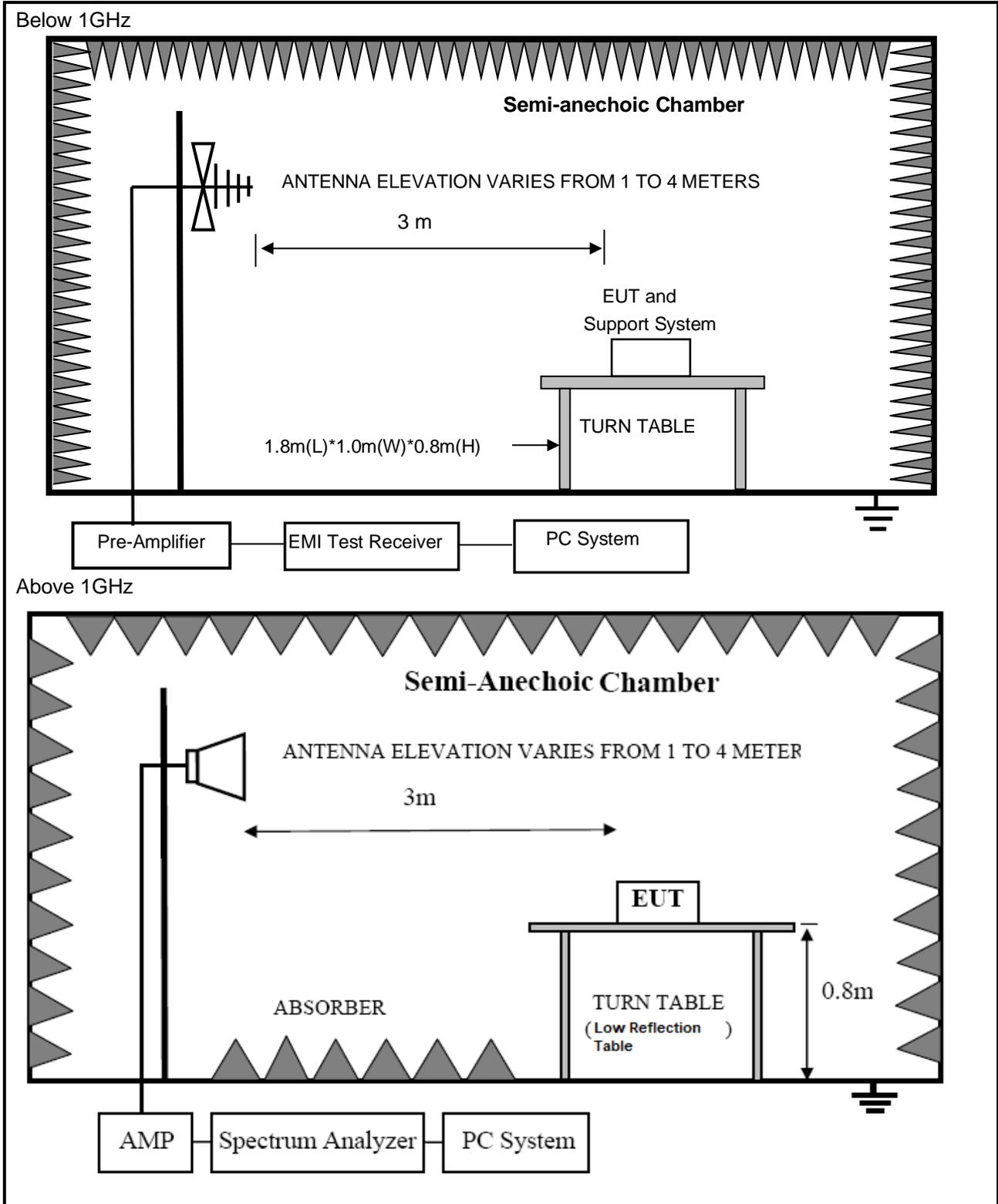
Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.

For emissions from 30MHz to 1GHz, Quasi-Peak values were measured with EMI Receiver and the bandwidth of Receiver is 120 KHz.

For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz

The test data of the worst-case condition(s) was recorded.

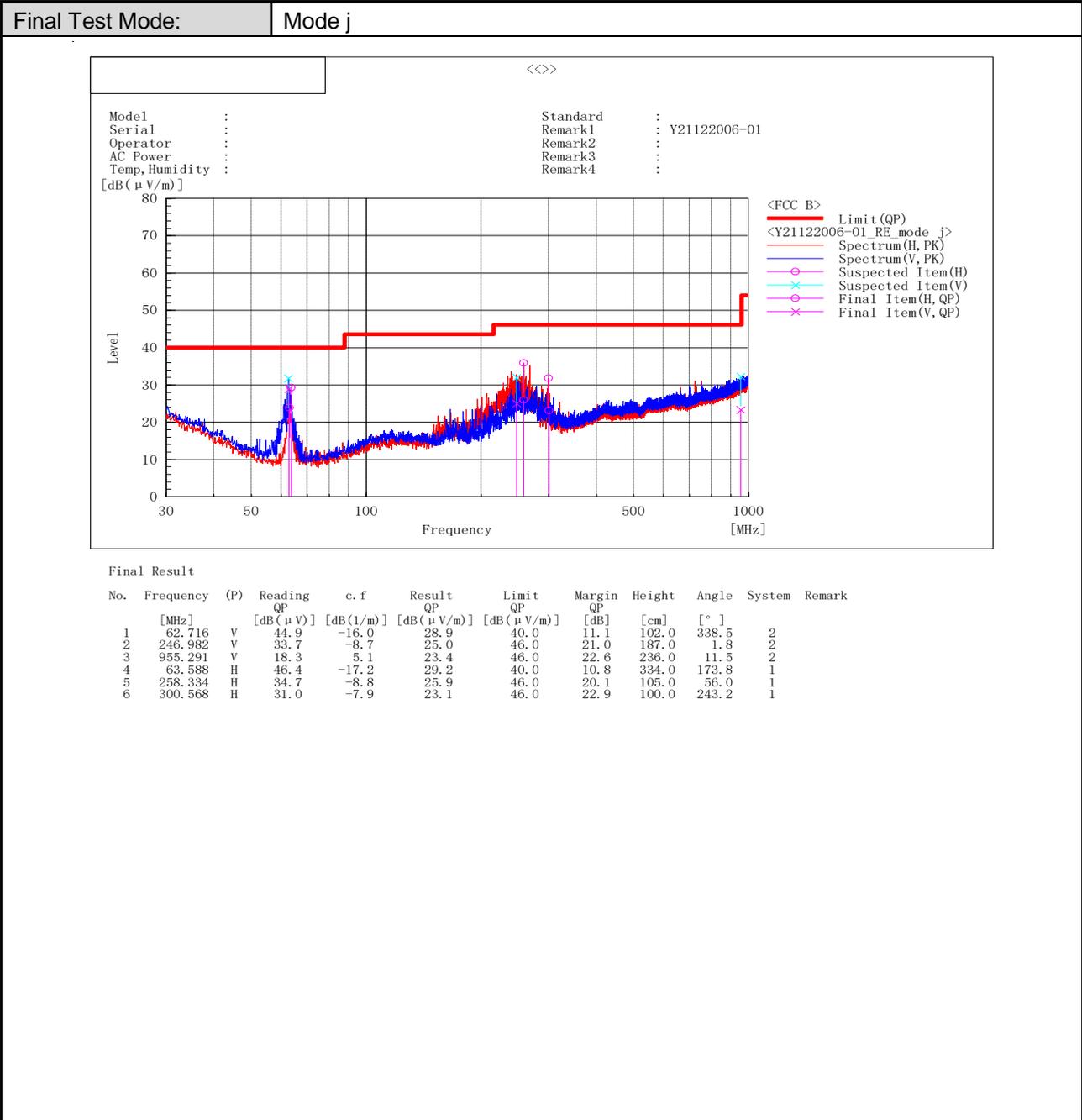




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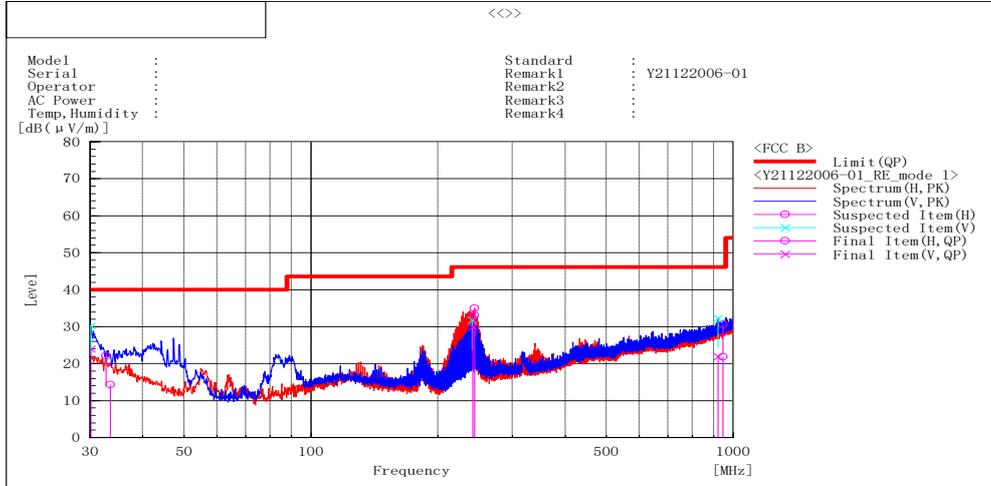
2.2.3 Measurement Data



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Final Test Mode: Mode I



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(µV)]	c. f [dB(1/m)]	Result QP [dB(µV/m)]	Limit QP [dB(µV/m)]	Margin QP [dB]	Height [cm]	Angle [°]	System	Remark
1	33.476	H	21.2	-6.9	14.3	40.0	25.7	107.0	83.5	1	
2	244.364	H	42.9	-9.9	33.0	46.0	13.0	115.0	47.1	1	
3	944.095	H	17.5	4.3	21.8	46.0	24.2	400.0	172.9	1	
4	30.115	V	27.8	-3.8	24.0	40.0	16.0	100.0	349.8	2	
5	241.247	V	39.3	-9.3	30.0	46.0	16.0	103.0	217.7	2	
6	919.763	V	17.4	4.5	21.9	46.0	24.1	221.0	320.4	2	

Note) Receiving antenna polarization : Horizontal and/or Vertical

Test Distance : 3 m, Antenna Height : 1 m to 4 m

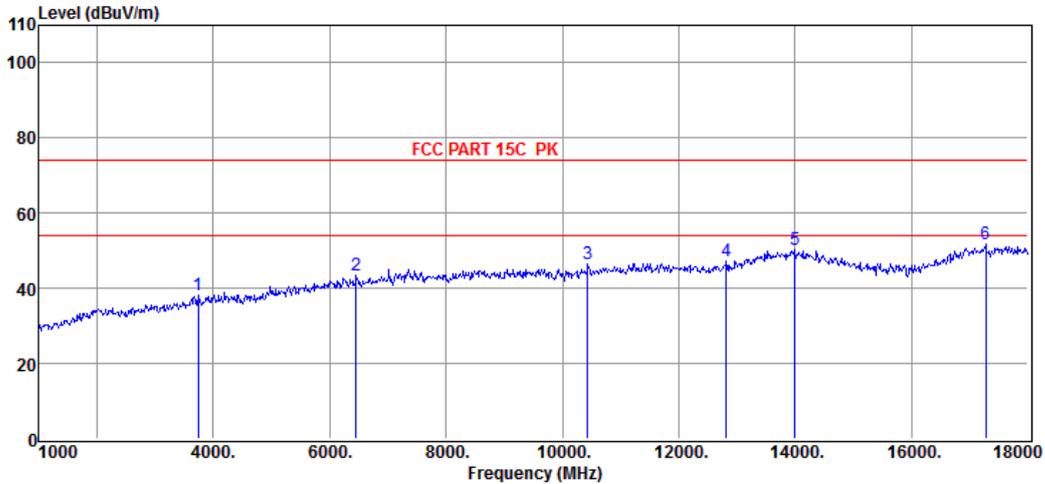
Level QP (Quasi-Peak) = Reading QP + Factor (Antenna Factor + Cable Loss - Amp. Gain)

Margin QP (Quasi-Peak) = Limit - Level QP



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Final Test Mode:	Mode J	Polarization:	Horizontal
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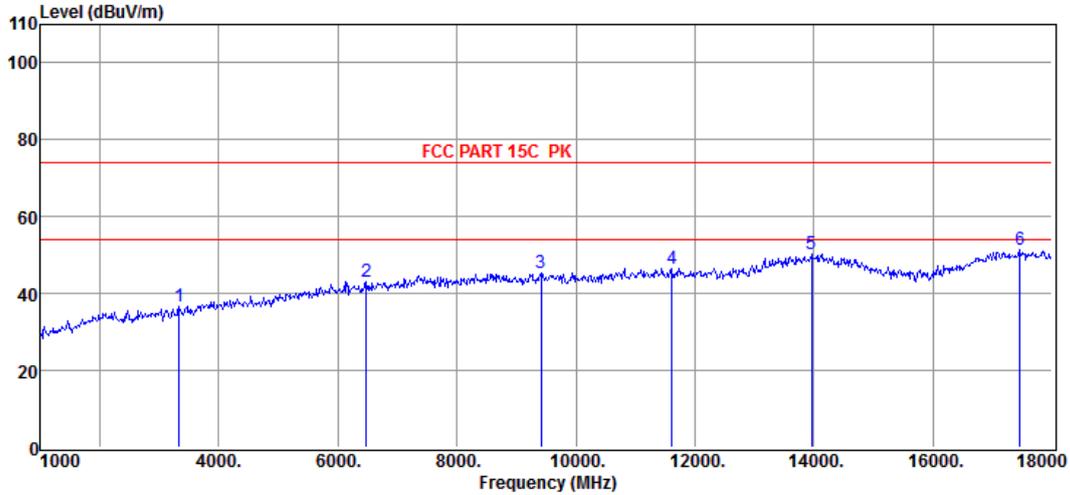


Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dB μ V/m)	Limit Line (dB μ V/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	3737.00	-1.72	38.01	74.00	-35.99	177	127	Peak	HORIZONTAL
2	6457.00	3.54	43.58	74.00	-30.42	185	305	Peak	HORIZONTAL
3	10435.00	7.88	46.60	74.00	-27.40	174	306	Peak	HORIZONTAL
4	12815.00	8.58	47.08	74.00	-26.92	162	334	Peak	HORIZONTAL
5	13988.00	12.13	50.22	74.00	-23.78	165	237	Peak	HORIZONTAL
6	17269.00	14.48	51.69	74.00	-22.31	183	5	Peak	HORIZONTAL



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Final Test Mode:	Mode c	Polarization:	Vertical
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Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBUV/m)	Limit Line (dBUV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	3329.00	-3.14	36.73	74.00	-37.27	163	211	Peak	VERTICAL
2	6474.00	3.43	43.15	74.00	-30.85	173	354	Peak	VERTICAL
3	9415.00	7.27	45.38	74.00	-28.62	150	129	Peak	VERTICAL
4	11608.00	9.44	46.65	74.00	-27.35	163	47	Peak	VERTICAL
5	13954.00	11.99	50.28	74.00	-23.72	154	52	Peak	VERTICAL
6	17456.00	14.39	51.58	74.00	-22.42	180	344	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

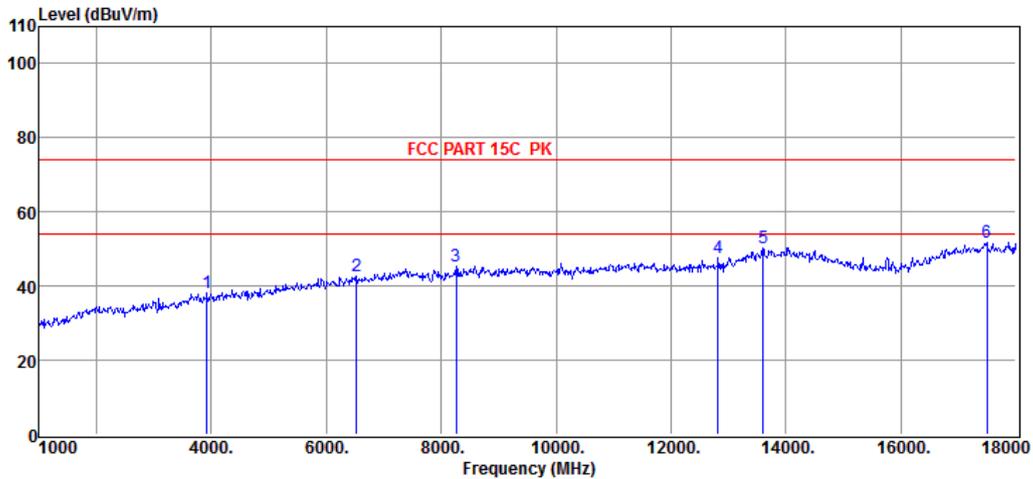
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit



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Final Test Mode:	Mode k	Polarization:	Horizontal
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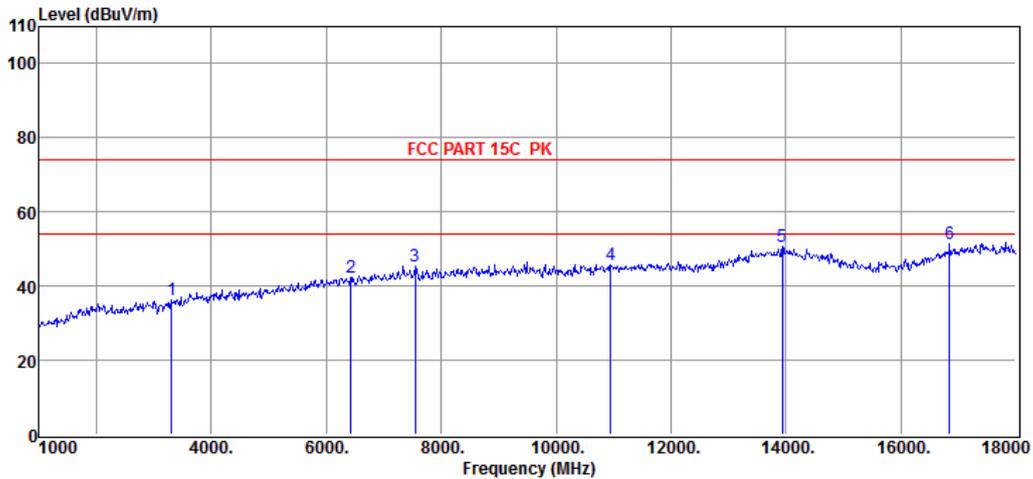


Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	3924.00	-1.54	38.26	74.00	-35.74	169	245	Peak	HORIZONTAL
2	6525.00	3.27	42.67	74.00	-31.33	172	117	Peak	HORIZONTAL
3	8259.00	5.45	45.49	74.00	-28.51	168	62	Peak	HORIZONTAL
4	12815.00	8.58	47.59	74.00	-26.41	154	244	Peak	HORIZONTAL
5	13597.00	10.73	50.26	74.00	-23.74	154	134	Peak	HORIZONTAL
6	17490.00	14.46	51.62	74.00	-22.38	160	298	Peak	HORIZONTAL



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Final Test Mode:	Mode k	Polarization:	Vertical
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Item (Mark)	Freq. (MHz)	Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Height (cm)	Angle (deg)	Detector	Polarization
1	3312.00	-3.12	36.27	74.00	-37.73	161	220	Peak	VERTICAL
2	6423.00	3.32	42.37	74.00	-31.63	177	101	Peak	VERTICAL
3	7545.00	5.63	45.50	74.00	-28.50	171	209	Peak	VERTICAL
4	10945.00	8.55	45.91	74.00	-28.09	184	331	Peak	VERTICAL
5	13937.00	11.92	50.54	74.00	-23.46	190	141	Peak	VERTICAL
6	16844.00	13.72	51.45	74.00	-22.55	176	145	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level – Limit

5. The disturbance above 18GHz and below 30MHz was very low, and the above harmonics are the highest points could be found when testing, so only the worst case data had been displayed.



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3 Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Test Receiver	R&S	ESCI	101397	Mar. 03, 2021	1 Year
LISN 1	R&S	ENV216	101122	Mar. 31, 2021	1 Year
LISN 2	R&S	ENV216	101254	Mar. 17, 2021	1 Year
Test software	TOYO	EP5/CE	V 5.4.40	N/A	N/A

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	R&S	ESCI	101024	Mar. 03, 2021	1 Year
EMI Test Receiver	R&S	ESCI	101030	May. 15, 2021	1 Year
Bilog Antenna	TESEQ	CBL6112D	29068	Oct, 12, 2020	2 Year
Bilog Antenna	TESEQ	CBL6112D	29069	Oct, 12, 2020	2 Year
Amplifier	Sonoma	310N	300913	Feb. 15, 2022	1 Year
Amplifier	Sonoma	310N	300914	Feb. 15, 2022	1 Year
Mast Controller	Innco	CO2000	N/A	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector1	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector2	N/A	N/A
Test software	TOYO	EP5/RE	V 5.7.10	N/A	N/A
EMI Test Receiver	R&S	ESU26	100244	Mar. 04, 2021	1 Year
Double Ridged Horn Antenna	TESEQ	BHA 9118	31754	Oct. 12, 2021	2 Year
Pre-amplifier	TOYO	TPA0108-40	1409	Feb. 15, 2022	1 Year
Test software	TOYO	EP5/RE	V 5.7.10	N/A	N/A
Test software	Audix	E3	V 6.11111b	N/A	N/A

Notes. N/A means Not applicable.



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4 Measurement Uncertainty

Test Item	Uncertainty
Conducted disturbance at mains terminals	3.4dB (150KHz-30MHz)
Uncertainty for Radiation Emission test (30MHz-1GHz)	5.2 dB (Antenna Polarize: H)
	5.2 dB (Antenna Polarize: V)
Uncertainty for Radiation disturbance test (1GHz to 6GHz)	5.0dB(1-6GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	



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5 Photographs

5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

- End of the Report -



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