

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2101727

FCC REPORT

Applicant: HMD global Oy

Address of Applicant: Bertel Jungin aukio 9, 02600 Espoo, Finland

Equipment Under Test (EUT)

Product Name: Smart Phone

Model No.: TA-1358

Trade mark: NOKIA

FCC ID: 2AJOTTA-1358

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 19 Aug., 2021

Date of Test: 20 Aug., to 28 Aug., 2021

Date of report issued: 16 Sep., 2021

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description	
00	00 16 Sep., 2021		

According to the declaration from the applicant, the models: TA-1361 and TA-1358 are identical in specifications, only different SIM adapter, TA-1361 supports daul sim mode, TA-1358 supports only single sim mode.

Therefore in this report all items do not need to retest and all test data in this report are based on the previous report with report number: JYTSZB-R12-2101718

Tested by:	Test Engineer	_ Date:	16 Sep., 2021	
Reviewed by:	Winner thang	Date:	16 Sep., 2021	

Project Engineer





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4 Test Summary

Test Item	Section in CFR 47	Result	
Conducted Emission	Part 15.107	Pass	
Radiated Emission	Part 15.109	Pass	
Remark: 1. Pass: The EUT complies with the essential requirements in the standard.			
Test Method: ANSI C63.4:2014			





5 General Information

5.1 Client Information

Applicant:	HMD global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer:	HMD global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland

5.2 General Description of E.U.T.

Product Name:	Smart Phone				
Model No.:	TA-1358				
Frequency Bands:	Band	TX Frequency (MHz)	RX Frequency (MHz)		
	GSM850:	824~849	869~894		
	GSM1900	1850~1910	1930~1990		
	WCDMA Band II:	1850~1910	1930~1990		
	WCDMA Band V:	WCDMA Band V: 824~849			
	LTE Band 5:	and 5: 824~849			
	LTE Band 7:	2500~2570	2620~2690		
	LTE Band 38:	2570~2620	2570~2620		
	LTE Band 41:	2496~2690	2496~2690		
	LTE Band CA_7C:	2500~2570	2620~2690		
	LTE Band CA_38C:	2570~2620	2570~2620		
	LTE Band CA_41C:	2496~2690	2496~2690		
	NR n5:	824~849	869~894		
	NR n7	2500~2570	2620~2690		
	NR n38:	2570~2620	2570~2620		
	NR n41:	2496~2690	2496~2690		
	NR n78:	3450~3550	3450~3550		
	Wi-Fi 2.4G	Wi-Fi 2.4G 2412~2462 2412~2462			
	Bluetooth	2402~2480	2402~2480		
	Wi-Fi 5G 5150~5850 5150~5850				
	GNSS(GPS + Galileo + Glonass + Beidou)	/	1599~1610		
	NFC	13.56	13.56		
	FM	/	88~108		
Power supply:	Rechargeable Lithium	ion Polymer Battery DC3.8	5V, 4.85Ah		
AC adapter:	Adapter 1: Model: TN-050200U3, TN-050200E3, TN-050200C3A Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A 10.0W Note: Only the pins are different between different models Adapter 2: Model: TN-050200U3, TN-050200A3, TN-050200C3A Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2.0A 10.0W Note: Only the pins are different between different models Adapter 3:				





	Model: AD-010A, AD-010X Input: AC100-240V, 50/60Hz, 0.35A
	Output: DC 5.0V, 2.0A 10.0W Note: Only the pins are different between different models
Test Sample Condition:	The test samples were provided in good working order with no visible defects.





5.3 Test Mode

Operating mode	Detail description
TM 1 mode	Keep the EUT and PC data exchange (Worst case)
TM 2 mode	Keep the EUT in Charging+Recording mode
TM 3 mode	Keep the EUT in Charging+Playing mode
TM 4 mode	Keep the EUT in FM receiver mode
TM 5 mode	Keep the EUT in GPS receiver mode
TM 6 mode	GSM850 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)+NFC+adapter
TM 7 mode	WCDMA Band V Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)+NFC+adapter
TM 8 mode	LTE Band 5 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card)+NFC+adapter
TM 9 mode	NR n5 Idle +BT+WLAN +GPS Rx+playing MP4 (SD card)+NFC+adapter
Remark :	 During the test, pre-scan all mode, found TM 1 was worse case mode. Pre-scan all adapter and all USB Cable, found adapter 1 and USB Cable 1 was worse case mode. The report only reflects the worst 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.

5.4 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))		
Conducted Emission (9kHz ~ 30MHz)	±2.62 dB (k=2)		
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	±3.13 dB		
Radiated Emission (30MHz ~ 1000MHz) (3m SAC)	±4.45 dB		
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB		
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB		

Note: The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.26-2015. 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.

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Report No: JYTSZB-R12-2101727

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
LENOVO	Laptop	SL510	2847A65	DoC
DELL	MOUSE	MS116t1	N/A	DoC
MERCURY	Wireless router	MW150R	12922104015	FCC ID

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type	Vendor	Model Name	Spec Info	Supplier PN
Detached USB Cable 1	Shenzhen Chuangyitong Technology Co., Ltd.	88806-025	Type-C/2A data cable/1M/AWG2 4/Black/CYT	P103-BVJ130- 010
Detached USB Cable 2	Shenzhen Yihuaxing Electronics CO.,Ltd.	T365-011B	Type-C/2A data cable/1M/AWG2 4/Black/YHX	P103-BVJ130- 000
Detached headset cable	DongGuan LongTa Xin Electronics Co.,Ltd	angGuan LongTa Xin 4/Black/YHX 3.5 round wire semi-in-ear type/low end		P106-BTX130- 000

5.8 Additions to, deviations, or exclusions from the method

No

5.9 Laboratory Facility

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

• 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 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.

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

5.10 Laboratory Location

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.

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5.11 Test Instruments list

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Management Number	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	SAEMC	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024	
BiConiLog Antenna	SCHWARZBECK	VULB9163	WXJ002	03-03-2021	03-02-2022	
Horn Antenna	SCHWARZBECK	BBHA9120D	WXJ002-2	03-03-2021	03-02-2022	
Pre-amplifier	HP	8447D	WXG001-2	03-07-2021	03-06-2022	
Pre-amplifier	SKET	LNPA_0118G-50	WXG001-3	03-07-2021	03-06-2022	
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-03-2021	03-02-2022	
Spectrum analyzer	Rohde & Schwarz	FSP30	WXJ004	03-03-2021	03-02-2022	
Signal Generator	Agilent	N5173B	WXJ006-7	03-25-2021	03-24-2022	
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY60192444	11-27-2020	11-26-2021	
RF Switch Unit	Tonscend	JS0806-F	WXJ089	N	I/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1			

Conducted Emission:										
Test Equipment	Manufacturer	Model No.	Management Number	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)					
EMI Test Receiver	Rohde & Schwarz	ESCI	WXJ003	03-03-2021	03-02-2022					
LISN	Rohde & Schwarz	ENV432	WXJ005-2	04-06-2021	04-05-2022					
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	06-17-2020	06-16-2022					
Coaxial Cable	JYT	JYTCE-1G-NN- 2M	WXG003-1	03-03-2021	03-02-2022					
Simulated Station	Rohde & Schwarz	CMW500	WXJ008-3	06-17-2021	06-16-2022					
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY60192444	11-27-2020	11-26-2021					
RF Switch	Top Precision	RSU0301	WXG003	N/A	N/A					
EMI Test Software	AUDIX	E3	Version: 6.110919b							





Test results and Measurement Data

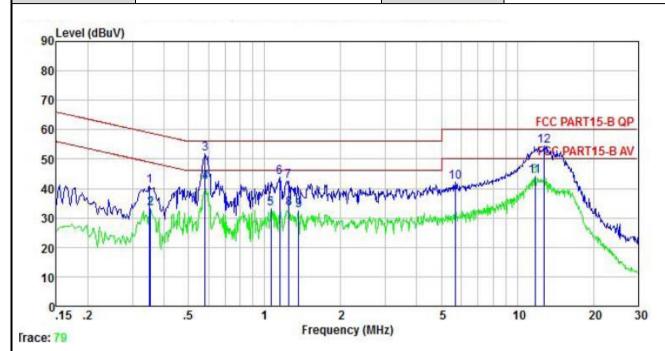
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit	(dBµV)
	, , ,	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5 0.5-30	56 60	46 50
	* Decreases with the logarithm	I .	
Test setup:	Reference Plane	or are requestoy.	
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m	Filter — AC power	
Test procedure	The E.U.T and simulators are impedance stabilization netwood coupling impedance for the results.	ork(L.I.S.N.). The prov	. •
	 The peripheral devices are a LISN that provides a 50ohm/termination. (Please refers to photographs). Both sides of A.C. line are interference. In order to fin positions of equipment and according to ANSI C63.4(lie 	50uH coupling impeda the block diagram of the checked for maximum d the maximum emission	conducted ion, the relative bles must be changed
Test Instruments:	Refer to section 5.11 for details	•	
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		
	1 3.33	ro based on the provi	ious roport with roport
Remark:	The test data in this report a number: JYTSZB-R12-2101718		ious report with report



Measurement data:

Product name:	Smart Phone	Product model:	TA-1361
Test by:	Mike	Test mode:	TM 1 mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



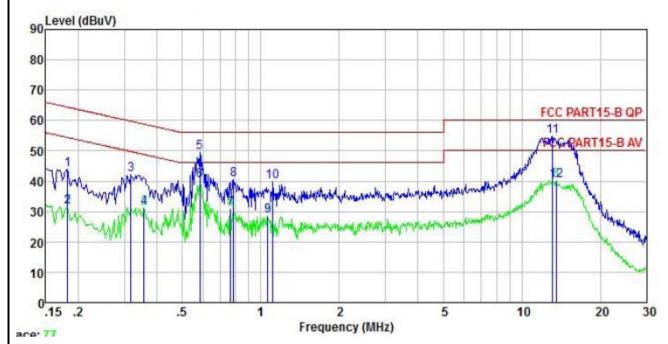
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	dB	dB	dB	dBu₹	dBu∜	<u>d</u> B	
1	0.350	30.50	10.27	0.10	0.02	40.89	58.96	-18.07	QP
2	0.354	22.78	10.27	0.14	0.02	33.21	48.87	-15.66	Average
3	0.582	41.87	10.29	-0.37	0.02	51.81	56.00	-4.19	QP
4	0.582	32.12	10.29	-0.37	0.02	42.06	46.00	-3.94	Average
1 2 3 4 5 6 7 8 9	1.060	22.44	10.32	0.40	0.06	33.22	46.00	-12.78	Average
6	1.147	33.17	10.32	0.30	0.08	43.87	56.00	-12.13	QP
7	1.242	31.98	10.32	0.22	0.10	42.62	56.00	-13.38	QP
8	1.249	22.51	10.32	0.21	0.10	33.14	46.00	-12.86	Average
9	1.367	22.01	10.32	0.11	0.12	32.56	46.00	-13.44	Average
10	5.683	31.02	10.45	0.56	0.09	42.12	60.00	-17.88	QP
11	11.745	30.75	10.66	2.58	0.10	44.09	50.00	-5.91	Average
12	12.784	40.69	10.70	2.95	0.11	54.45	60.00	-5.55	QP

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



Product name:	Smart Phone	Product model:	TA-1361
Test by:	Mike	Test mode:	TM 1 mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%
	·		·



	Freq	Read Level		Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
_	MHz	dBu∜	dB	dB	₫B	dBu₹	dBu∜	dB	
1	0.182	33.74	10.21	0.00	0.01	43.96	64.42	-20.46	QP
2	0.182	21.32	10.21	0.00	0.01	31.54	54.42	-22.88	Average
1 2 3 4 5 6 7 8 9	0.318	31.88	10.25	-0.01	0.03	42.15	59.75	-17.60	QP
4	0.358	21.01	10.26	-0.03	0.02	31.26	48.78	-17.52	Average
5	0.585	39.10	10.29	0.03	0.02	49.44	56.00	-6.56	QP
6	0.585	29.83	10.29	0.03	0.02	40.17	46.00	-5.83	Average
7	0.767	20.51	10.30	0.05	0.03	30.89	46.00	-15.11	Average
8	0.788	29.99	10.30	0.05	0.03	40.37	56.00	-15.63	QP
9	1.065	18.07	10.31	0.09	0.07	28.54	46.00	-17.46	Average
10	1.111	29.31	10.31	0.09	0.07	39.78	56.00	-16.22	QP
11	13.127	41.30	10.68	2.54	0.11	54.63	60.00	-5.37	QP
12	13.551	26.84	10.69	2.67	0.12	40.32	50.00	-9.68	Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.





6.2 Padiated Emission

Toot Poquiroment	FCC Part 15 B Se	oction 15 10	10							
Test Requirement:			19							
Test Frequency Range:	30MHz to 18000N	30MHz to 18000MHz Measurement Distance: 3m (Semi-Anechoic Chamber)								
Test site:	Measurement Dis	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver setup:	Frequency	Detecto	r	RBW	VBW	Remark				
	30MHz-1GHz	Quasi-pe	ak	120kHz	300kHz	Quasi-peak Value				
	Above 1GHz	Peak		1MHz	3MHz	Peak Value				
		RMS	1 :	1MHz	3MHz	Average Value				
Limit:	Frequency Limit (dBuV/m @3m) Remar 30MHz-88MHz 40.0 Quasi-peak									
	88MHz-216			43.5		Quasi-peak Value Quasi-peak Value				
	216MHz-960			46.0		Quasi-peak Value				
	960MHz-10			54.0		Quasi-peak Value				
				54.0		Average Value				
	Above 1G	HZ		74.0		Peak Value				
Test setup:	Below 1GHz Tum Table Ground Plane Above 1GHz	4m		RFT						
	AE (Turn	IV V V	3m		Antenna Tower					
Test Procedure:	ground at a 3 r degrees to dete 2. The EUT was s which was mou 3. The antenna h ground to dete	neter semi- ermine the p set 3 meters unted on the eight is vari rmine the m	anech positions awa top ed from axim	noic camber on of the hig ly from the i of a variable om one mete um value of	The table The table	e-receiving antenna, ntenna tower. neters above the				





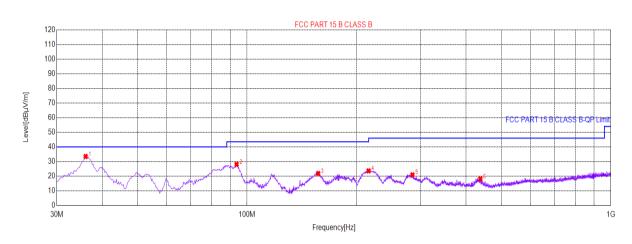
	 For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average
T	method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	 All of the observed value above 6GHz ware the niose floor , which were no recorded The test data in this report are based on the previous report with report number: JYTSZB-R12-2101718



Measurement Data:

Below 1GHz:

Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Test mode:	TM 1 mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%



QP Detector

Suspe	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	36.0152	33.47	-31.23	40.00	6.53	252	229	Vertical			
2	93.6447	28.11	-31.59	43.50	15.39	264	101	Vertical			
3	156.9014	21.88	-32.06	43.50	21.62	294	336	Vertical			
4	215.8892	23.63	-29.04	43.50	19.87	108	324	Vertical			
5	284.9670	20.93	-26.91	46.00	25.07	244	210	Vertical			
6	438.0636	18.18	-23.90	46.00	27.82	261	298	Vertical			

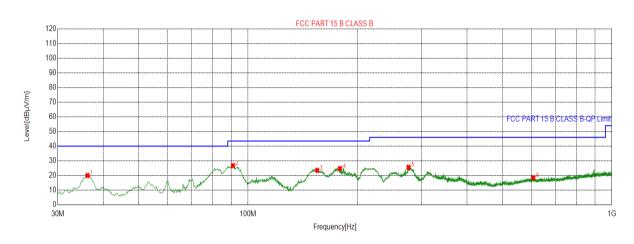
Remark:

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Test mode:	TM 1 mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 57%



QP Detector

Susp	Suspected List										
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity			
1	36.2092	19.96	-31.19	40.00	20.04	188	269	Horizontal			
2	90.9282	26.73	-31.82	43.50	16.77	163	276	Horizontal			
3	154.9610	23.50	-32.10	43.50	20.00	184	252	Horizontal			
4	179.0218	24.73	-31.04	43.50	18.77	122	129	Horizontal			
5	276.2352	25.62	-27.13	46.00	20.38	269	131	Horizontal			
6	608.4297	18.47	-19.79	46.00	27.53	251	254	Horizontal			

Remark:

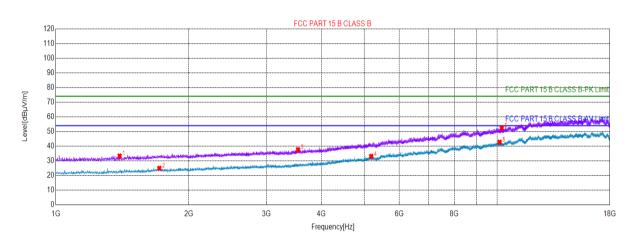
- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

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Above 1GHz:

Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Test mode:	TM 1 mode
Test Frequency:	1 GHz ~ 18 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%



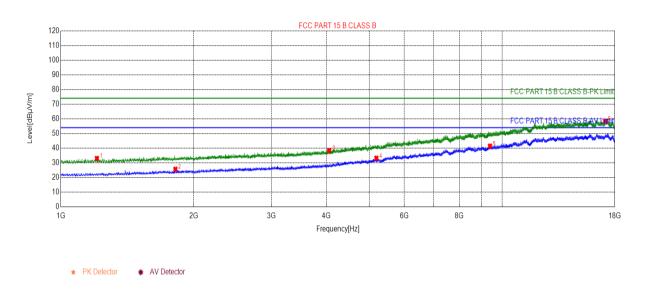
Suspe	Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1395.2698	33.25	-29.91	74.00	40.75	196	54	Vertical
2	1716.5858	24.89	-28.70	54.00	29.11	115	344	Vertical
3	3538.2269	37.62	-23.63	74.00	36.38	206	146	Vertical
4	5183.0592	33.07	-17.12	54.00	20.93	284	321	Vertical
5	10132.0066	42.68	-3.67	54.00	11.32	288	168	Vertical
6	10244.2122	52.26	-3.23	74.00	21.74	279	222	Vertical

Remark:

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	Smart Phone	Product Model:	TA-1361
Test By:	Mike	Test mode:	TM 1 mode
Test Frequency:	1 GHz ~ 18 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24℃ Huni: 57%



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1207.4104	33.05	-30.61	74.00	40.95	185	153	Horizontal
2	1818.5909	25.68	-28.76	54.00	28.32	163	268	Horizontal
3	4056.7528	38.32	-22.00	74.00	35.68	125	176	Horizontal
4	5189.0095	33.19	-17.12	54.00	20.81	189	344	Horizontal
5	9386.5193	41.43	-5.16	54.00	12.57	211	24	Horizontal
6	17108.3054	58.37	1.26	74.00	15.63	284	130	Horizontal

Remark

- 1. Final Level = Receiver Read level + Factor (Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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7 Test Setup Photo

Reference to the test setup photos: 15B-Test Setup Photo

8 EUT Constructional Details

Reference to the External Photo and Internal Photo

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