

TEST REPORT FOR EMC TESTING

Report No.: SRTC2023-9004(F)-23032901(T)
Product Name: Smart Phone
Product ID: APYHRO00325
Applicant: Sharp Corporation
FCC ID: APYHRO00325

Reference Specification

FCC Part 15B

The State Radio_monitoring_center Testing Center (SRTC)

15th Building, No.30 Shixing Street, Shijingshan District, Beijing, China

Tel: 86-10-57996183 Fax: 86-10-57996388

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1. GENERAL INFORMATION

1.1 Notes of the test report

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1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Designation number	CN1267
Registration number	239125
CAB identifier:	CN0049
Test lab Number:	7308A
Address:	15th Building, No.30 Shixing Street, Shijingshan District, Beijing P.R.China
City:	Beijing
Country or Region:	P.R.China
Contacted person:	Liu Jia
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Email:	liujiaf@srtc.org.cn
Designation Number:	CN1267
Registration number:	239125

1.3 Applicant's details

Company:	Sharp Corporation
Address:	1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan

1.4 Manufacturer's details

Company:	Sharp Corporation
Address:	1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan

1.5 Information of EUT

1.5.1 Basic info

Testing Start Date:	2023/3/30
Testing End Date:	2023/4/30
DUT IMEI:	No.1 (1st Source): 004401231406816 No.2 (2nd Source): 004401231405511
DUT H/W Version:	PVT(Remodeled to the equivalent of MP products)
DUT S/W Version:	NA
Ambient Temperature:	22°C
Humidity:	35%
Note	---

Network	Mode Information
GSM	GSM850
GSM	GSM1900
WCDMA	WCDMA Band II
WCDMA	WCDMA Band IV
WCDMA	WCDMA Band V
LTE	LTE Band 2
LTE	LTE Band 4
LTE	LTE Band 5
LTE	LTE Band 7
LTE	LTE Band 12
LTE	LTE Band 13
LTE	LTE Band 17
LTE	LTE Band 38
LTE	LTE Band 41
LTE	LTE Band 66
WIFI2.4GHz	802.11b/g/n20/n40/ax20/ax40
WIFI5GHz(UNII-1/UNII-2A/ UNII-2C/ UNII-3/UNII-5)	802.11a/n20/n40/ac20/ac40/ac80/ac160/ax20/ax40/a x80/ax160

1.5.2 Auxiliary equipment details

Battery	
Type	Li-Lon
Manufacture	Murata Energy Device Wuxi Co., Ltd.
Model	UBATIA311AFN1
Capacity	4870mAh
Nominal voltage	4V

Charger	
Model	DVE / DSA-10PF06-05 FUS

Headset	
Model	Ambibio / AB-HI02JS (RPHOEA007AFZZ)

USB cable	
Model	Kingpower / K201-05130-00

1.5.3 Operating mode

Strategy	
Step1	Pre-Scan has been performed to determine the worst combination of auxiliary among all the possibility of different suppliers when necessary.
Step2	Pre-Scan has been performed to determine the worst operating mode for different test cases.
Step3	Based on the worst cases determined above, Then perform the following measurement.

Mode No.	Mode	Description
Mode 1	GSM850/PCS1900 + BT + 5GHz WiFi + GPS + UWB + Playing MP4 (SD card)+ Headset + USB Cable + Wired Power Adapter	Multimedia Playing (EUT + Wired Power Adapter)
Mode 2	WCDMA + BT + 5GHz WiFi + GPS + UWB + Playing MP4 (SD card)+ Headset + USB Cable + Wired Power Adapter	
Mode 3	LTE + BT + 5GHz WiFi + GPS + UWB + Playing MP4 (SD card) + Headset + USB Cable + Wired Power Adapter	
Mode 4	GSM850/PCS1900 + BT + 5GHz WiFi + GPS + UWB + Playing MP4 (SD card)+ Headset + USB Cable + Wireless Power Adapter	Multimedia Playing (EUT + Wireless Power Adapter)
Mode 5	WCDMA + BT + 5GHz WiFi + GPS + UWB + Playing MP4 (SD card)+ Headset + USB Cable + Wireless Power Adapter	
Mode 6	LTE + BT + 5GHz WiFi + GPS + UWB + Playing MP4 (SD card) + Headset + USB Cable + Wireless Power Adapter	
Mode 7	GSM850/PCS1900 + BT + 5GHz WiFi + GPS + UWB + Camera + Headset + USB Cable connected with Laptop	Data Transferring (EUT + Laptop)
Mode 8	WCDMA + BT + 5GHz WiFi + GPS + UWB + Camera + Headset + USB Cable connected with Laptop	
Mode 9	LTE + BT + 5GHz WiFi + GPS + UWB + Camera + Headset + USB Cable connected with Laptop	

Note: The EUT has two sources whose difference is only the component supplier. Pre-Scan has been conducted to determine the worst-case mode: Mode 2, Mode 5 and Mode 8 of EUT No.1 (1st Source).

1.6 Reference specification

Specification	Version	Title
FCC Part 15B	2022	Unintentional Radiators
ANSI C63.4	2014	American National Standard For Methods Of Measurement Of Radio-Noise Emissions From Low-Voltage Electrical And Electronic Equipment In The Range of 9 KHz To 40 GHz

1.7 Abbreviation

Abbreviation	Meaning
CT	Performance criteria for Continuous phenomena applied to Transmitters
TT	Performance criteria for Transient phenomena applied to Transmitters
CR	Performance criteria for Continuous phenomena applied to Receiver
TR	Performance criteria for Transient phenomena applied to Receiver
CE	Conducted Emission
RE	Radiated emission

2. TEST INFORMATION

2.1 Summary of the test results

Test Case	Class	Verdict
Conducted Emission	B	Pass
Radiated emission	B	Pass

This Test Report Is Approved by: Mr. Peng Zhen 	Review by: Mr. Li Bin 
Tested and issued by: Mr. Du Wei 	Approved date: 2023/05/19

2.2 Item description

Conducted Emission

Refer to FCC Part 15.107

Criteria:

Frequency Range(MHz)	Detector Type/Bandwidth	Class B limit(dB μ V)
0.15 to 0.5	Quasi Peak/9kHz	66 to 56
0.5 to 5		56
5 to 30		60
0.15 to 0.5	Average/9kHz	56 to 46
0.5 to 5		46
5 to 30		50

Setup:

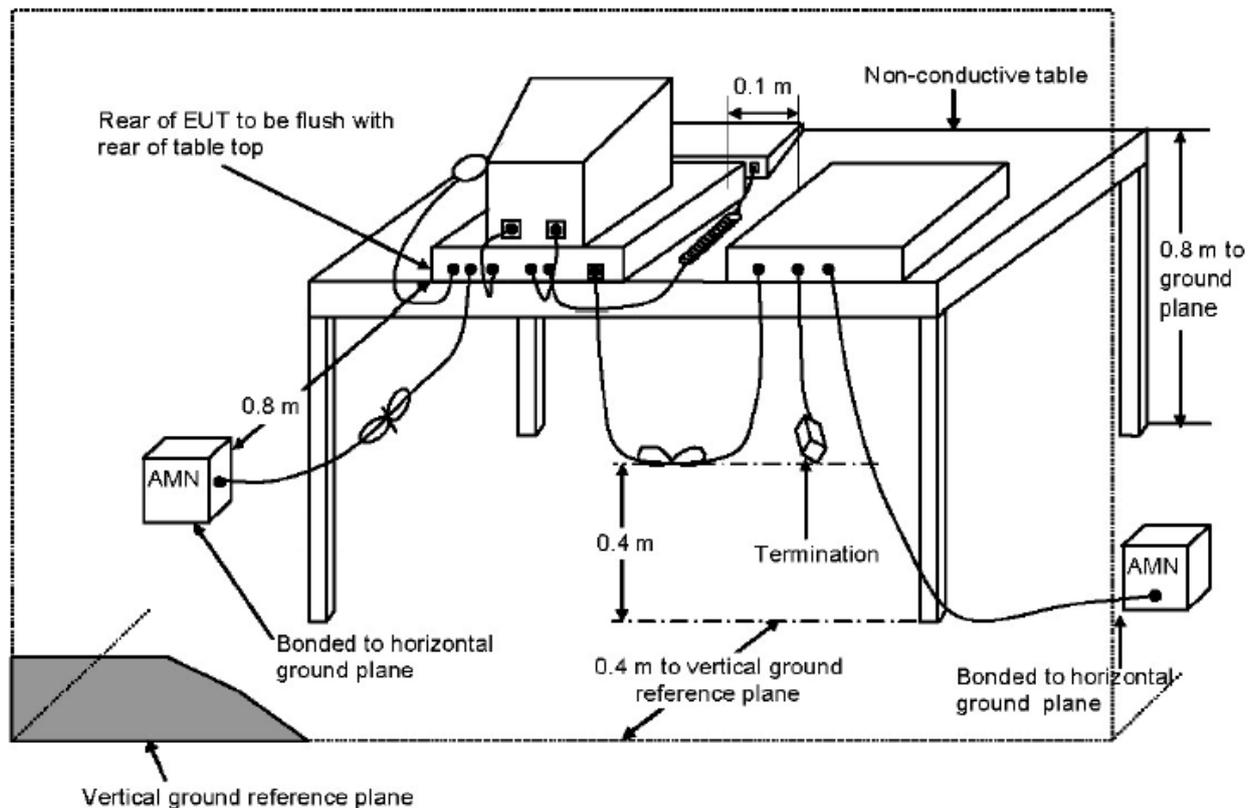


Figure. CE

Test Procedure:

Step	Description
1	The EUT was placed on a desk 0.8 meters height from the metal ground plane and 0.4 meter conducting wall of the shielding room and it was kept at least 0.8 meter from any other grounded conducting surface.
2	Connect EUT to the power mains through a line impedance stabilization network (LISN)
3	All the support units are connected to the other LISN.
4	The frequency range from 150 kHz to 30 searched.
5	Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6	6 frequency points closest to the limit of each line shall be performed the final measurement by Quasi Peak detector.

Radiated emission

Refer to FCC Part15.109

Criteria:

Frequency (MHz)	Class B limits(dBuV/m)		Measurement distance(m)
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: The table above according to part 15.109,more conservative thanISED(230-960MHz with 47dB $\mu\text{V/m}$).

Frequency	Class B limits(dBuV/m)		Measurement distance(m)
	peak	average	
At and above 1 GHz	74	54	3

Note: The table above according to part ICES-003.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Note:The table above according to part 15.33.

Setup:

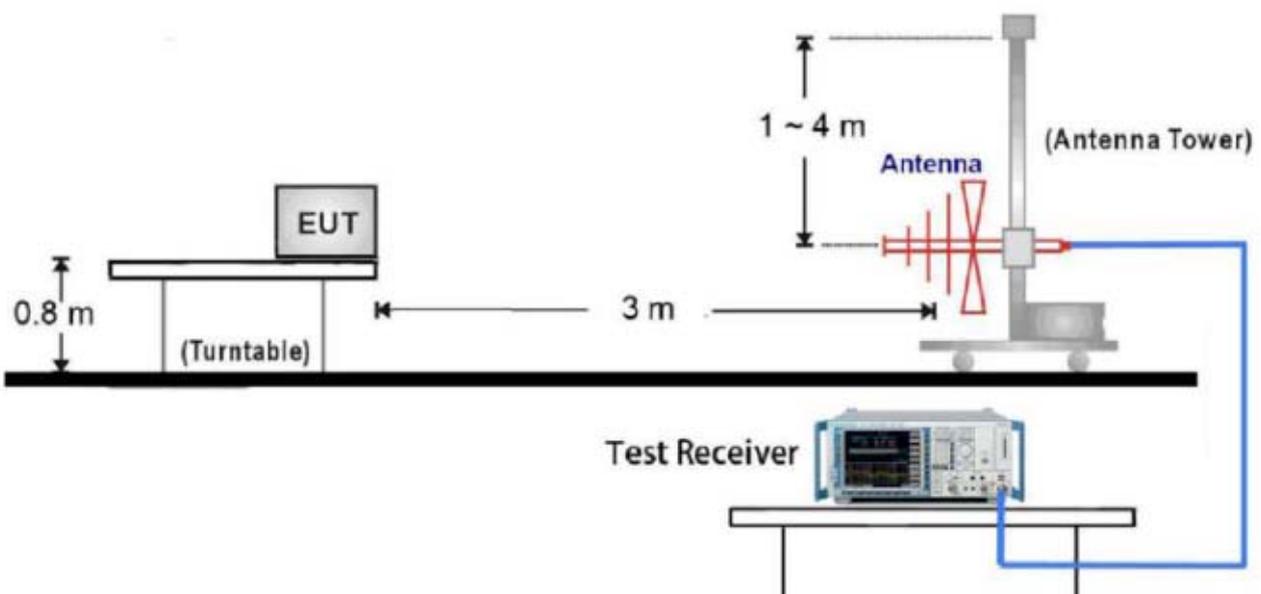


Figure. RE 30MHz-1GHz

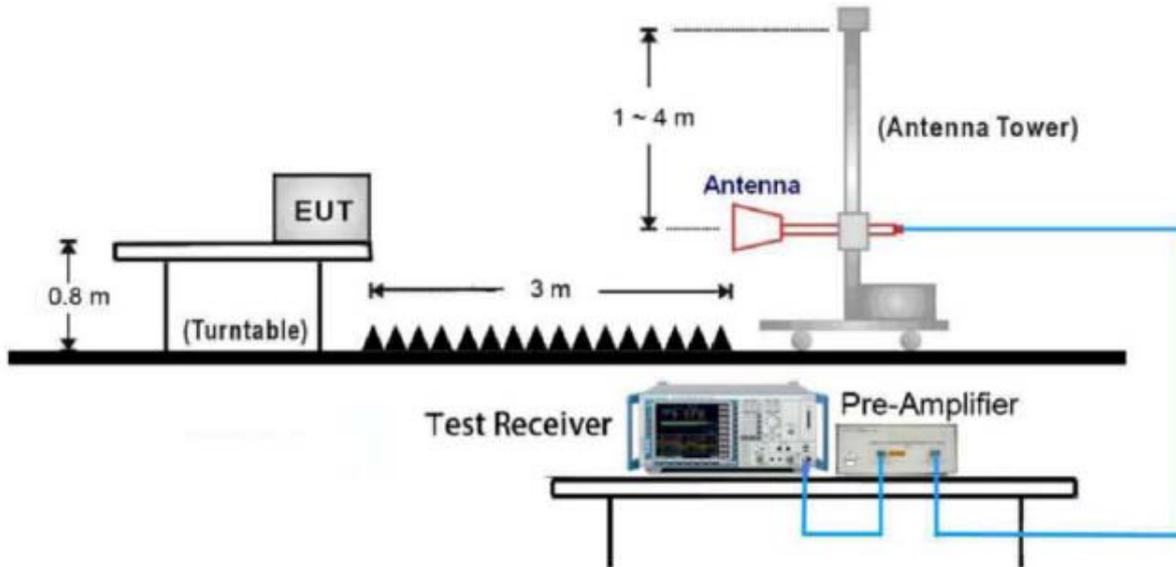


Figure. RE Above 1GHz

Test Procedure:

Step	Description
1	The EUT was placed on a rotatable tabletop 0.8 meter above ground.
2	The EUT was set 3 meters from the interference-receiving antenna which was mounted on the top of a variable height antenna tower.
3	The table was rotated 360 to determine the position of the highest radiation.
4	The antenna is hybrid antenna and its height are varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
5	For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 to 4 meters) and turn table(from 0 degree to 360 degrees) to find the maximum reading.
6	Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode; Then the quasi-peak or average scan is carried out at points with relatively high peak value.

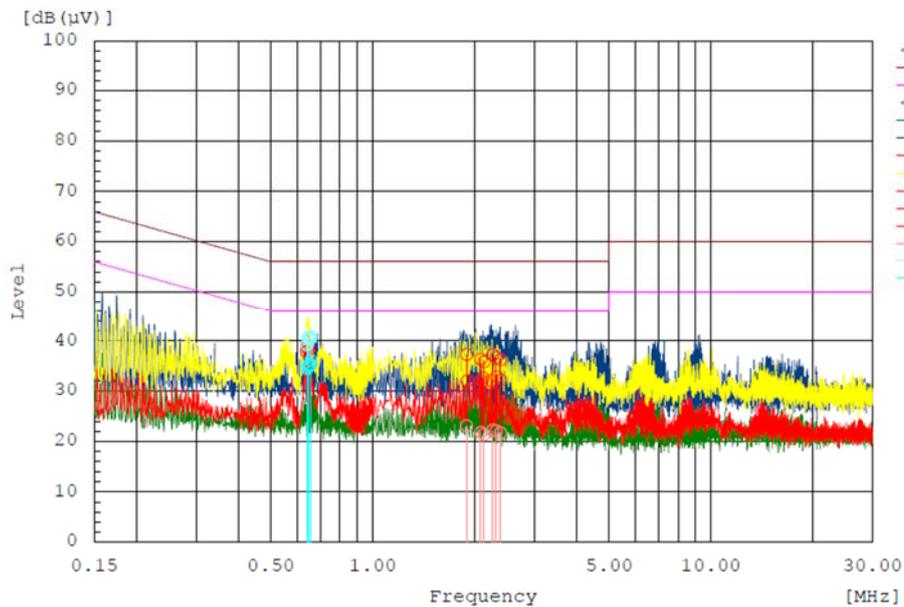
3. TEST RESULT

3.1 Conducted emission

AC mains input/output port, Wired network port, DC power input/output port (Test position depend on DUT and auxiliary, necessary result mentioned below)

Noise	NOTE
0.15MHz -30MHz	The background noise of test environment is clear, There were no emission below 30MHz. test result was not reported.

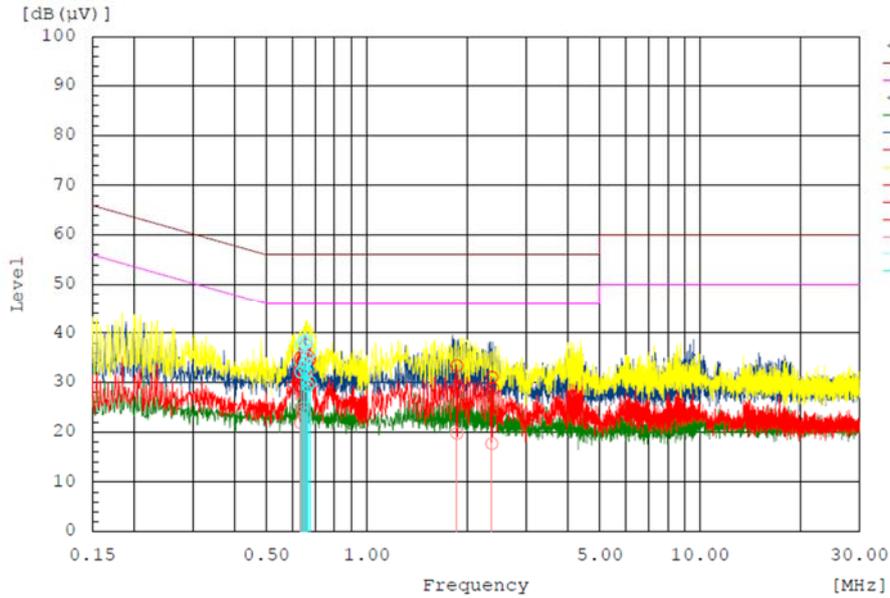
Test Mode	Mode 2 - AC 100V	Test Date	2023/04/20
Test Frequency	0.15MHz ~ 30MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	



Frequency MHz	Line	Reading dB(µV)		Factor dB	Level dB(µV)		Limit dB(µV)		Margin dB		Pass/Fail
		QP	AV		QP	AV	QP	AV	QP	AV	
1.893	L	17.5	3.2	19.9	37.4	23.1	56	46	18.6	22.9	Pass
2.085	L	16.5	1.9	19.9	36.4	21.8	56	46	19.6	24.2	Pass
2.132	L	16.0	1.5	19.9	35.9	21.4	56	46	20.1	24.6	Pass
2.260	L	17.4	2.3	19.9	37.3	22.2	56	46	18.7	23.8	Pass
2.314	L	16.8	2.2	19.9	36.7	22.1	56	46	19.3	23.9	Pass
2.386	L	16.4	1.8	19.9	36.3	21.7	56	46	19.7	24.3	Pass
0.640	N	19.3	14.7	19.9	39.2	34.6	56	46	16.8	11.4	Pass
0.643	N	20.8	15.1	19.9	40.7	35.0	56	46	15.3	11.0	Pass
0.647	N	20.4	15.5	19.9	40.3	35.4	56	46	15.7	10.6	Pass
0.647	N	20.7	15.1	19.9	40.6	35.0	56	46	15.4	11.0	Pass

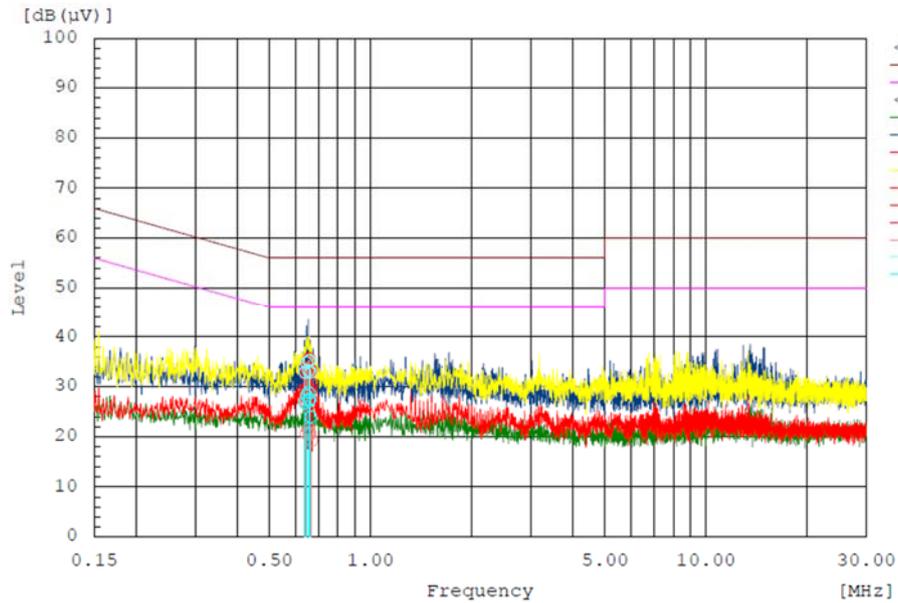
0.653	N	20.7	15.5	19.9	40.6	35.4	56	46	15.4	10.6	Pass
0.656	N	21.0	16.2	19.9	40.9	36.1	56	46	15.1	9.9	Pass

Test Mode	Mode 2 - AC 240V	Test Date	2023/04/20
Test Frequency	0.15MHz ~ 30MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	



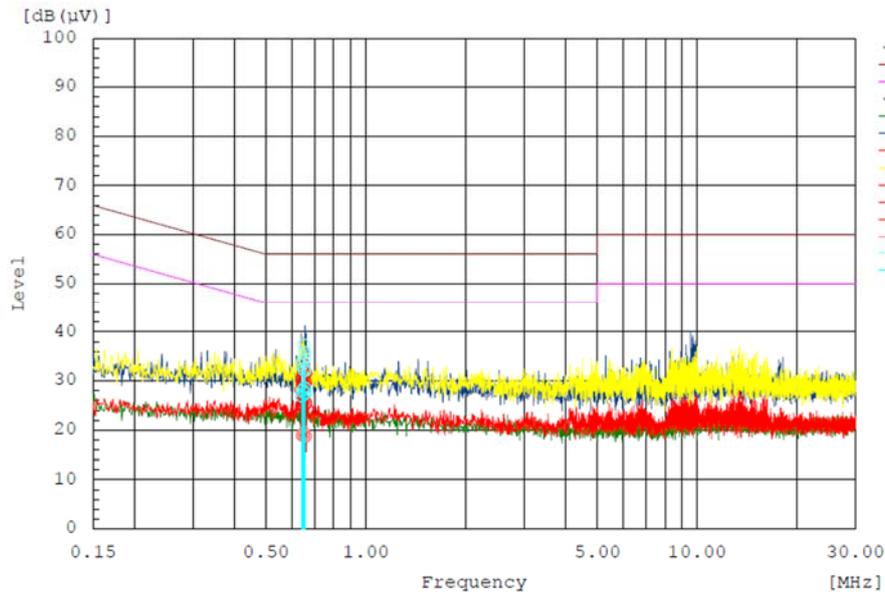
Frequency MHz	Line	Reading dB(μV)		Factor dB	Level dB(μV)		Limit dB(μV)		Margin dB		Pass/Fail
		QP	AV		QP	AV	QP	AV	QP	AV	
0.633	N	17.6	12.2	19.9	37.5	32.1	56	46	18.5	13.9	Pass
0.647	N	18.5	13.2	19.9	38.4	33.1	56	46	17.6	12.9	Pass
0.652	N	18.0	14.0	19.9	37.9	33.9	56	46	18.1	12.1	Pass
0.659	N	18.7	12.3	19.9	38.6	32.2	56	46	17.4	13.8	Pass
0.663	N	15.2	9.5	19.9	35.1	29.4	56	46	20.9	16.6	Pass
0.675	N	16.2	10.2	19.9	36.1	30.1	56	46	19.9	15.9	Pass
0.632	L	12.5	2.0	19.9	32.4	21.9	56	46	23.6	24.1	Pass
0.640	L	14.3	4.2	19.9	34.2	24.1	56	46	21.8	21.9	Pass
0.644	L	15.8	5.0	19.9	35.7	24.9	56	46	20.3	21.1	Pass
0.652	L	15.6	3.7	19.9	35.5	23.6	56	46	20.5	22.4	Pass
1.861	L	13.6	-0.2	19.9	33.5	19.7	56	46	22.5	26.3	Pass
2.367	L	11.2	-2.2	19.9	31.1	17.7	56	46	24.9	28.3	Pass

Test Mode	Mode 5	Test Date	2023/04/20
Test Frequency	0.15MHz ~ 30MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	



Frequency MHz	Line	Reading dB(μV)		Factor dB	Level dB(μV)		Limit dB(μV)		Margin dB		Pass/Fail
		QP	AV		QP	AV	QP	AV	QP	AV	
0.643	L	13.4	0.8	19.9	33.3	20.7	56	46	22.7	25.3	Pass
0.653	L	15.5	1.7	19.9	35.4	21.6	56	46	20.6	24.4	Pass
0.656	L	13.8	1.0	19.9	33.7	20.9	56	46	22.3	25.1	Pass
0.656	L	13.5	0.8	19.9	33.4	20.7	56	46	22.6	25.3	Pass
0.658	L	13.4	0.5	19.9	33.3	20.4	56	46	22.7	25.6	Pass
0.668	L	10.7	-0.6	19.9	30.6	19.3	56	46	25.4	26.7	Pass
0.638	N	13.0	6.9	19.9	32.9	26.8	56	46	23.1	19.2	Pass
0.644	N	14.9	8.4	19.9	34.8	28.3	56	46	21.2	17.7	Pass
0.653	N	13.3	9.0	19.9	33.2	28.9	56	46	22.8	17.1	Pass
0.657	N	15.4	7.6	19.9	35.3	27.5	56	46	20.7	18.5	Pass
0.656	N	15.3	7.3	19.9	35.2	27.2	56	46	20.8	18.8	Pass
0.662	N	13.0	4.1	19.9	32.9	24.0	56	46	23.1	22.0	Pass

Test Mode	Mode 8	Test Date	2023/04/20
Test Frequency	0.15MHz ~ 30MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	

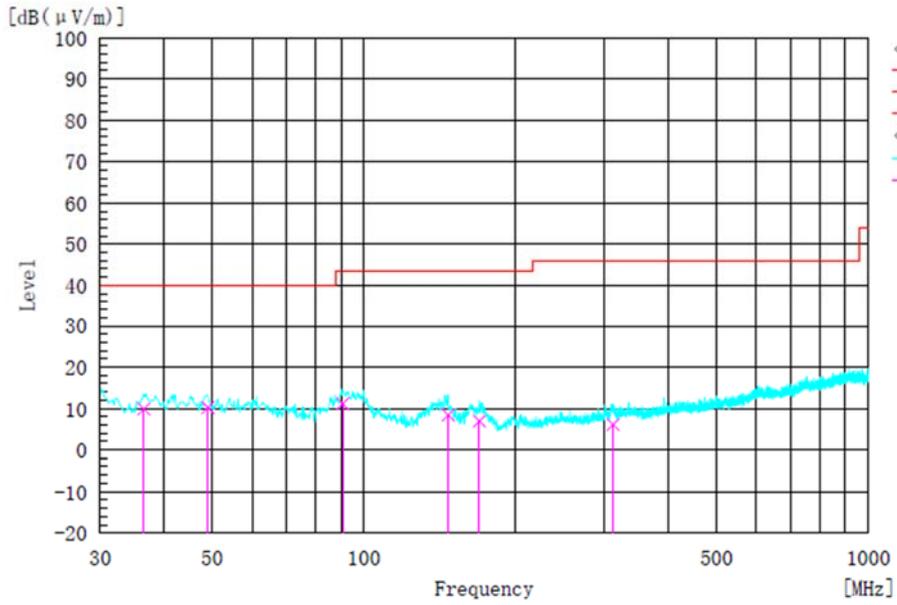


Frequency MHz	Line	Reading dB(μV)		Factor dB	Level dB(μV)		Limit dB(μV)		Margin dB		Pass/Fail
		QP	AV		QP	AV	QP	AV	QP	AV	
0.640	N	13.3	7.0	19.9	33.2	26.9	56	46	22.8	19.1	Pass
0.643	N	14.3	8.3	19.9	34.2	28.2	56	46	21.8	17.8	Pass
0.649	N	17.4	12.4	19.9	37.3	32.3	56	46	18.7	13.7	Pass
0.653	N	15.8	8.7	19.9	35.7	28.6	56	46	20.3	17.4	Pass
0.654	N	12.2	7.6	19.9	32.1	27.5	56	46	23.9	18.5	Pass
0.653	N	14.7	7.7	19.9	34.6	27.6	56	46	21.4	18.4	Pass
0.641	L	10.7	-1.0	19.9	30.6	18.9	56	46	25.4	27.1	Pass
0.645	L	11.6	-0.8	19.9	31.5	19.1	56	46	24.5	26.9	Pass
0.650	L	13.4	-0.4	19.9	33.3	19.5	56	46	22.7	26.5	Pass
0.648	L	11.9	-1.1	19.9	31.8	18.8	56	46	24.2	27.2	Pass
0.657	L	11.9	-1.2	19.9	31.8	18.7	56	46	24.2	27.3	Pass
0.656	L	11.8	-1.0	19.9	31.7	18.9	56	46	24.3	27.1	Pass

3.2 Radiated emission

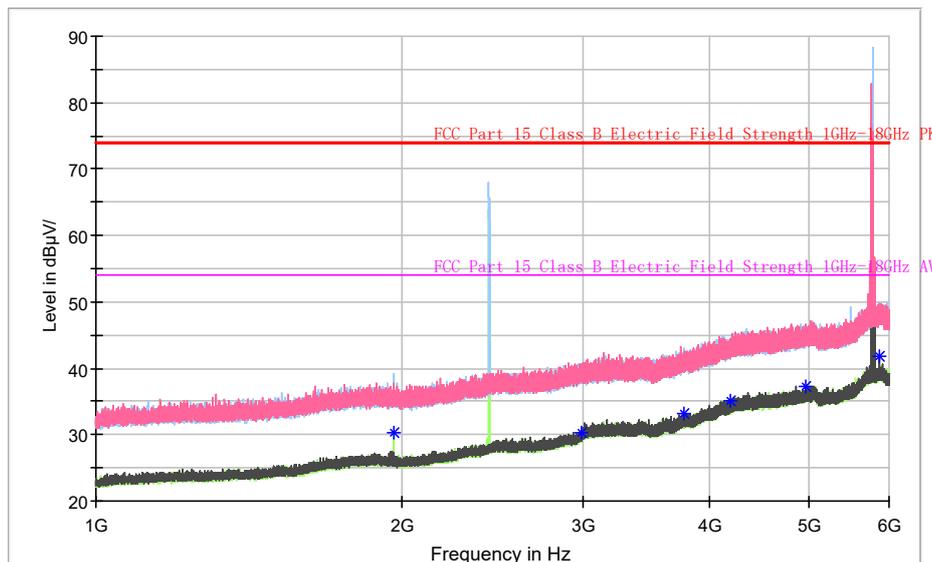
Enclosure port of ancillary equipment (Test position depend on DUT and auxiliary, necessary result mentioned below)

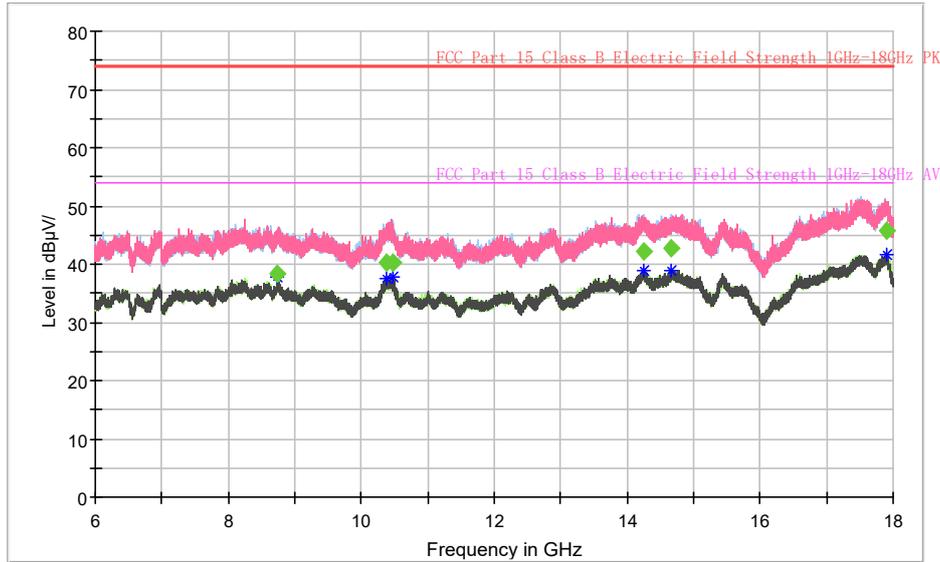
Test Mode	Mode 2	Test Date	2023/04/21
Test Frequency	30 MHz ~ 1000 MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	



Frequency (MHz)	Reading (dBuV)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.971	55.30	8.80	40.00	31.20	1000.0	120.000	100.0	V	202.3	-46.5
49.016	57.20	11.00	40.00	29.00	1000.0	120.000	100.0	V	192.0	-46.2
78.704	61.20	8.40	40.00	31.60	1000.0	120.000	250.0	V	237.8	-52.8
91.510	59.70	10.40	43.50	33.10	1000.0	120.000	193.0	V	215.2	-49.3
146.617	61.00	9.50	43.50	34.00	1000.0	120.000	249.0	V	98.7	-51.5
174.559	56.40	6.10	43.50	37.40	1000.0	120.000	100.0	V	281.1	-50.3

Test Mode	Mode 2	Test Date	2023/04/21
Test Frequency	1000 MHz ~ 18000 MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	





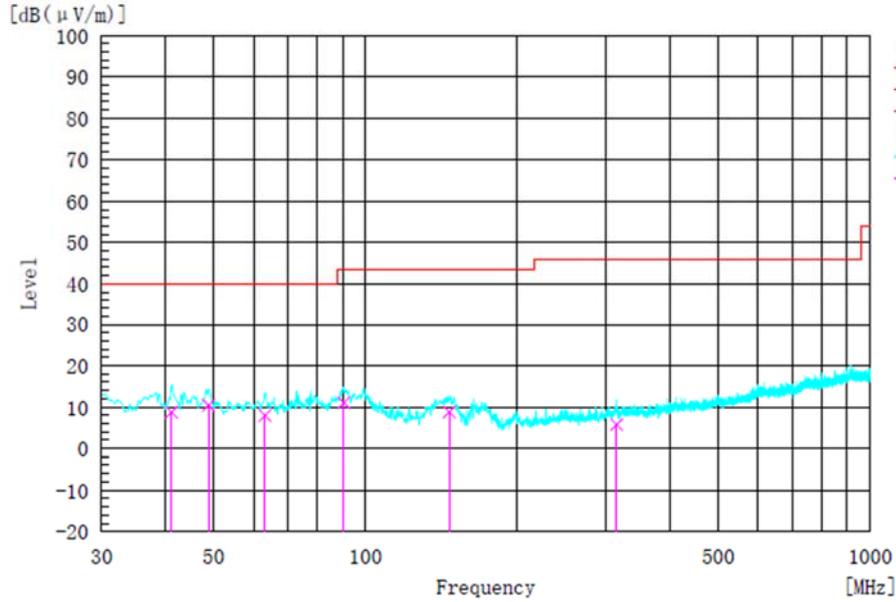
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8744.400	---	51.73	---	38.43	54.00	15.57	1000.0	1000.000	224.9	V	198.0	-13.3
10367.600	---	52.73	---	40.33	54.00	13.67	1000.0	1000.000	199.3	V	270.0	-12.4
10464.800	---	52.18	---	40.18	54.00	13.82	1000.0	1000.000	211.0	H	135.0	-12.0
14238.000	---	52.87	---	42.07	54.00	11.93	1000.0	1000.000	211.1	H	55.0	-10.8
14672.400	---	53.83	---	42.83	54.00	11.17	1000.0	1000.000	216.3	H	240.0	-11.0
17912.400	---	53.89	---	45.69	54.00	8.31	1000.0	1000.000	107.1	V	-2.0	-8.2

Test Mode	Mode 2	Test Date	2023/04/21
Test Frequency	18000 MHz ~ 40000 MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	

There were no emissions above 18GHz found within 20dB of the limit. Thus, the test result was not reported according to §15.31

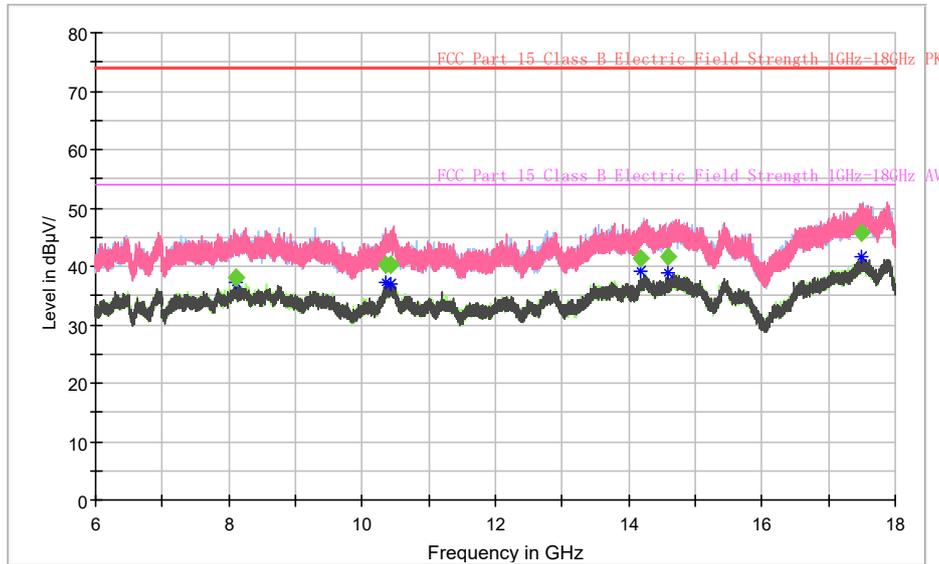
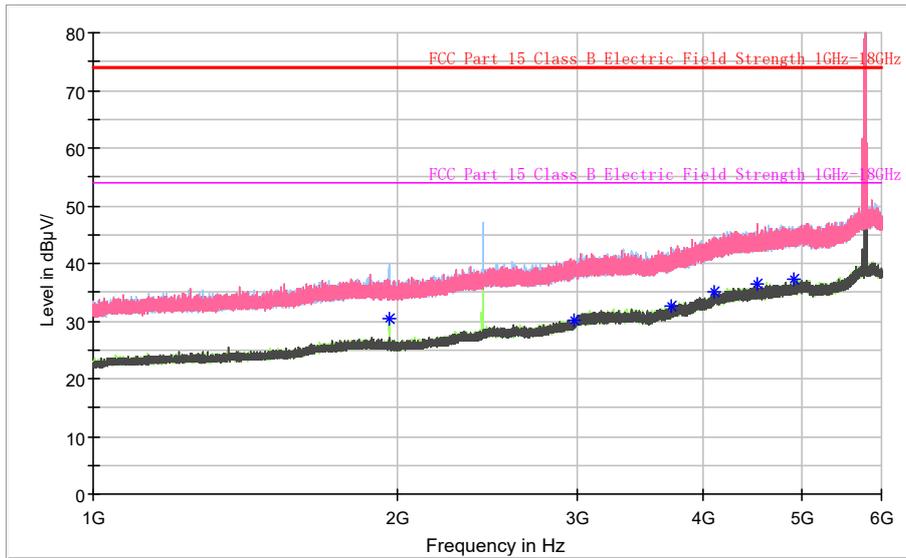
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Test Mode	Mode 5	Test Date	2023/04/21
Test Frequency	30 MHz ~ 100 MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	



Frequency (MHz)	Reading (dBuV)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.254	55.70	8.80	40.00	31.20	1000.0	120.000	100.0	V	254.8	-46.9
48.822	56.60	10.40	40.00	29.60	1000.0	120.000	100.0	V	178.1	-46.2
63.181	55.80	7.90	40.00	32.10	1000.0	120.000	251.0	V	119.1	-47.9
90.540	60.50	11.00	43.50	32.50	1000.0	120.000	196.0	V	55.6	-49.5
146.423	60.30	8.80	43.50	34.70	1000.0	120.000	250.0	V	27.9	-51.5
314.267	51.20	5.80	46.00	40.20	1000.0	120.000	198.0	V	228.2	-45.4

Test Mode	Mode 5	Test Date	2023/04/21
Test Frequency	1000 MHz ~ 180000 MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	



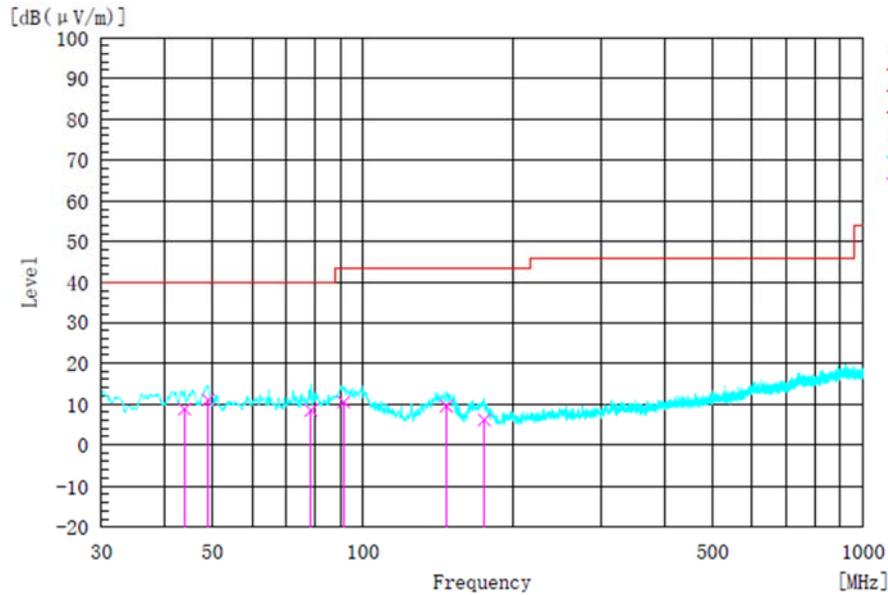
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8092.800	---	52.10	---	38.10	54.00	15.90	1000.0	1000.000	120.9	V	331.0	-14.0
10354.000	---	52.91	---	40.31	54.00	13.69	1000.0	1000.000	193.5	V	-18.0	-12.6
10432.000	---	52.33	---	40.23	54.00	13.77	1000.0	1000.000	218.5	H	26.0	-12.1
14174.000	---	53.34	---	41.34	54.00	12.66	1000.0	1000.000	112.3	H	26.0	-12.0
14590.400	---	53.27	---	41.77	54.00	12.23	1000.0	1000.000	211.3	V	-18.0	-11.5
17500.800	---	54.07	---	45.87	54.00	8.13	1000.0	1000.000	124.9	V	-20.0	-8.2

Test Mode	Mode 5	Test Date	2023/04/21
Test Frequency	18000 MHz ~ 40000 MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	

There were no emissions above 18GHz found within 20dB of the limit. Thus, the test result was not reported according to §15.31

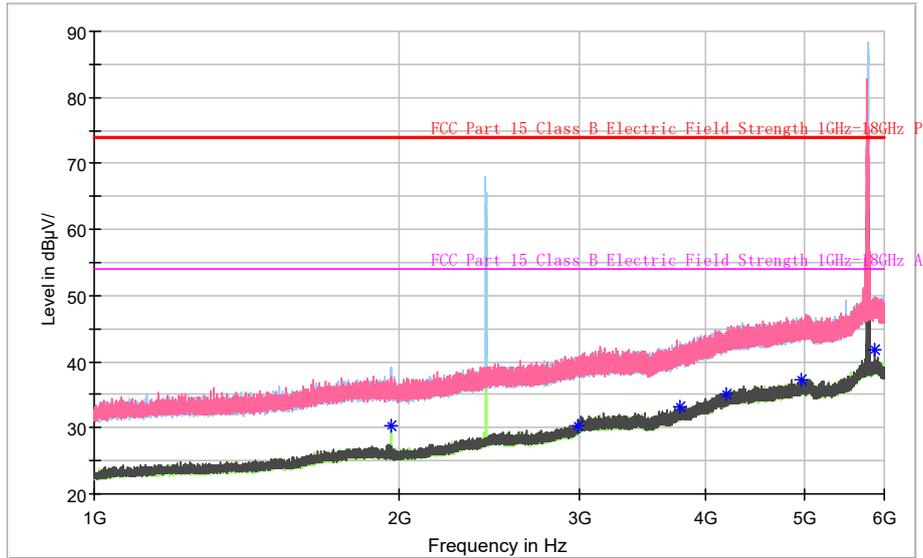
(o).

Test Mode	Mode 8	Test Date	2023/04/21
Test Frequency	30 MHz ~ 1000 MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	



Frequency (MHz)	Reading (dBuV)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.971	55.30	8.80	40.00	31.20	1000.0	120.000	100.0	V	202.3	-46.5
49.016	57.20	11.00	40.00	29.00	1000.0	120.000	100.0	V	192.0	-46.2
78.704	61.20	8.40	40.00	31.60	1000.0	120.000	250.0	V	237.8	-52.8
91.510	59.70	10.40	43.50	33.10	1000.0	120.000	193.0	V	215.2	-49.3
146.617	61.00	9.50	43.50	34.00	1000.0	120.000	249.0	V	98.7	-51.5
174.559	56.40	6.10	43.50	37.40	1000.0	120.000	100.0	V	281.1	-50.3

Test Mode	Mode 8	Test Date	2023/04/21
Test Frequency	1000 MHz ~ 18000 MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
8258.000	---	51.97	---	38.47	54.00	15.53	1000.0	1000.000	199.7	V	1.0	-13.5
8580.400	---	51.80	---	38.20	54.00	15.80	1000.0	1000.000	206.2	V	25.0	-13.6
10464.400	---	52.20	---	40.20	54.00	13.80	1000.0	1000.000	224.9	V	26.0	-12.0
14237.600	---	52.88	---	42.08	54.00	11.92	1000.0	1000.000	224.9	H	-17.0	-10.8
14668.000	---	53.86	---	42.76	54.00	11.24	1000.0	1000.000	224.9	V	26.0	-11.1
17898.000	---	53.92	---	45.52	54.00	8.48	1000.0	1000.000	187.4	V	-18.0	-8.4

Test Mode	Mode 8	Test Date	2023/04/21
Test Frequency	18000 MHz ~ 40000 MHz	Test Engineer	
Serial Number	004401231406816	Temp, Humidity	

There were no emissions above 18GHz found within 20dB of the limit. Thus, the test result was not reported according to §15.31 (o).

Frequency range	NOTE
18000MHz -40000MHz	There were no emission above 18GHz found within 20db of the limit. Thus, test result was not reported according to part 15.31(o)

4. UNCERTAINTY

Test item	Description	Uncertainty
Radiated Disturbance	30MHz~100MHz	4.73dB
	100MHz~1000MHz	4.73dB
	1000MHz~40000MHz	4.58dB
Conducted Disturbance	Quasi-peak	3.92dB
	Average	3.92dB

5. EQUIPMENT LIST

Name	Model	Serial number	Calibration Date	Calibration DueDate
Shielding room	9.080m×5.255m×3.525m	---	2018/9/6	2023/9/5
Semi-Anechoic Chamber	SAC: 23.18m×16.88m×9.60m	---	2018/9/6	2023/9/5
Turn table	Diameter:5m	---	---	---
Antenna master	SAC(MA4.0)	---	---	---
EMI test receiver	ESW	101574	2022/6/20	2023/6/19
EMI test receiver	ESR 3	102361	2023/4/12	2024/4/11
Signal generator	SMB100A	109002	2022/6/21	2023/6/20
Double-Ridged Waveguide HornAntenna	HF 907	100512	2021/5/13	2023/5/12
Ultra log test antenna	VULB9163	867	2021/5/29	2023/5/28
High Gain Log-Periodic Antenna	HL046	359952/002	2021/8/20	2023/8/19
HornAntenna	9120E	391	2021/8/20	2023/8/19
ESD generator	ESS-S3011	ESS1519 973	2022/6/20	2023/6/19
Signal generator	SMY 01	100092	2022/6/20	2023/6/19
Power Amplifier	250W1000	301074	2022/6/20	2023/6/19
Power Amplifier	50S1G4A	301351	2022/6/20	2023/6/19
Power Amplifier	35S4G8	0330292	2022/6/20	2023/6/19
Power Amplifier	100A250	301408	2022/6/20	2023/6/19
AMN	ENV216	101881	2022/6/20	2023/6/19
BCI	F-120-9A	259	2022/6/20	2023/6/19
BCI	F-52	52	2022/6/20	2023/6/19
General generators	PHF4010	185108	2023/3/06	2024/3/05
Power analyzer	ACS 503	1003-01	2023/3/06	2024/3/05
AC power	IMU3000F5-S-T-D-V	105684-2008	2022/6/20	2023/6/19
Immunity test system	CDN3000A-08-32- 690	1506	2022/6/20	2023/6/19
CDN	VAR-EXT1000	1567	2022/6/20	2023/6/19
Radio tester	CMW 500	160132	2022/6/20	2023/6/19
Audio Analyzer	UPV	100597	2022/6/20	2023/6/19
Laptop	Lenovo Xiaoxinchao7000	---	---	---