



TEST REPORT

Application No: ZR/2021/40021
Applicant: HMD Global Oy
Address of Applicant: Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer: HMD Global Oy
Address of Manufacturer: Bertel Jungin aukio 9, 02600 Espoo, Finland
EUT Description: smart phone
Model No.: N1374DL
Trade Mark: Nokia
FCC ID: 2AJOTTA-1374
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2021/4/25
Date of Test: 2021/4/25 to 2021/6/15
Date of Issue: 2021/6/17

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

Authorized Signature:

Simon Ling

Wireless Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/6/17		Original

Authorized for issue by:	
Prepared By	 (Leah Chen) / Engineer
Checked By	 (Daniel Wang) /Reviewer



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Test Summary

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

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

Product Name:	smart phone		
Model No.(EUT):	N1374DL		
Trade Mark:	Nokia		
Hardware Version:	V1.0		
Software Version:	02US_0_029		
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 IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2200
	LTE Band 71	663~698	617~652
	NR Band N2	1850~1910	1930~1990
	NR Band N5	824~849	869~894
	NR Band N25	1850~1910	1930~1995
	NR Band N41	2496~2690	2496~2690
	NR Band N66	1710~1780	2110~2200
	NR Band N71	663~698	617~652
	NR Band N77	3300~4200	3300~4200
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 5G	5150~5850	5150~5850
	GNSS(GPS+Glonass + Beidou)	1599~1610	
	NFC	13.56	
	FM	88~108	



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Accessory:

Battery			
Battery1	Sunwoda Electronic CO.LTD	CN110	3.87V; 4370mAh
USB Cable			
USB Cable1	HUIZHOU WASHIN ELECTRONICS CO.,LTD	HX-ZN-06	1.0m shielded cable without core
Adapter			
Adapter1 (US)	HUIZHOU PUAN ELECTRONICS CO.,LTD	1-CHUSQ302-097	I/P: 100-240 Vac, 500mA ,50/60HZ O/P: 5Vdc 3A/9Vdc 2A/12Vdc 1.5A



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	NETGEAR	R6020	No.XA1401
Computer	Lenovo	L480	No.XA1402
Mouse	A4TECH	OP-520NU USB	No.XA1403

1.2 Test Location

All tests were performed at:

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Post code:	710086
Test engineer:	Leah Chen, Ken Liu, Andy Yao

No tests were sub-contracted.

1.3 Test Facility

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

A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

FCC-Designation Number: CN1271.

1.4 Deviation from Standards

None

1.5 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
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

2.1.1 E.U.T. Operation

Operating Environment:

Temperature: 18.9 °C Humidity: 55.1 % RH Atmospheric Pressure: 1000 mbar

- Pretest these modes to find the worst case:
- a: Transfer data between the EUT and the PC+USB cable1
 - b: GSM 850 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +battery1+Cable(worst)+adapter1
 - c: WCDMA Band V Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
 - d: LTE Band 5 Idle +BT+WLAN +GPS Rx+playing MP4 (SD card) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
 - e: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
 - f: LTE Band 13 Idle+BT+WLAN +GPS Rx+camera (Front) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
 - g: LTE Band 71 Idle+BT+WLAN +GPS Rx+camera (Front) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
 - h: LTE NR Band N5 Idle+BT+WLAN +GPS Rx+camera (Back) +NFC+ battery(worst)+ Cable(worst)+adapter(worst)
 - i: LTE NR Band N71 Idle+BT+WLAN +GPS Rx+camera (Back) + NFC+ battery(worst)+ Cable(worst)+adapter(worst)

- The worst case for final test:
- a: Transfer data between the EUT and the PC+USB cable1
 - h: LTE NR Band N5 Idle+BT+WLAN +GPS Rx+camera (Back) + NFC+ battery(worst)+ Cable(worst)+adapter(worst)



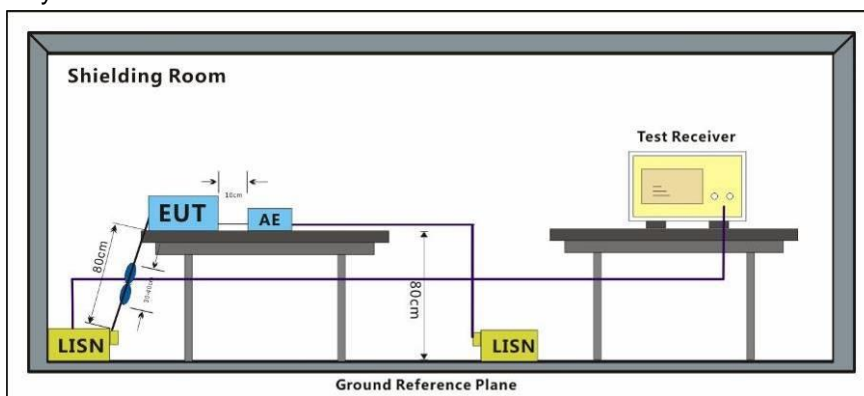
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2.1.2 Test Setup Procedures

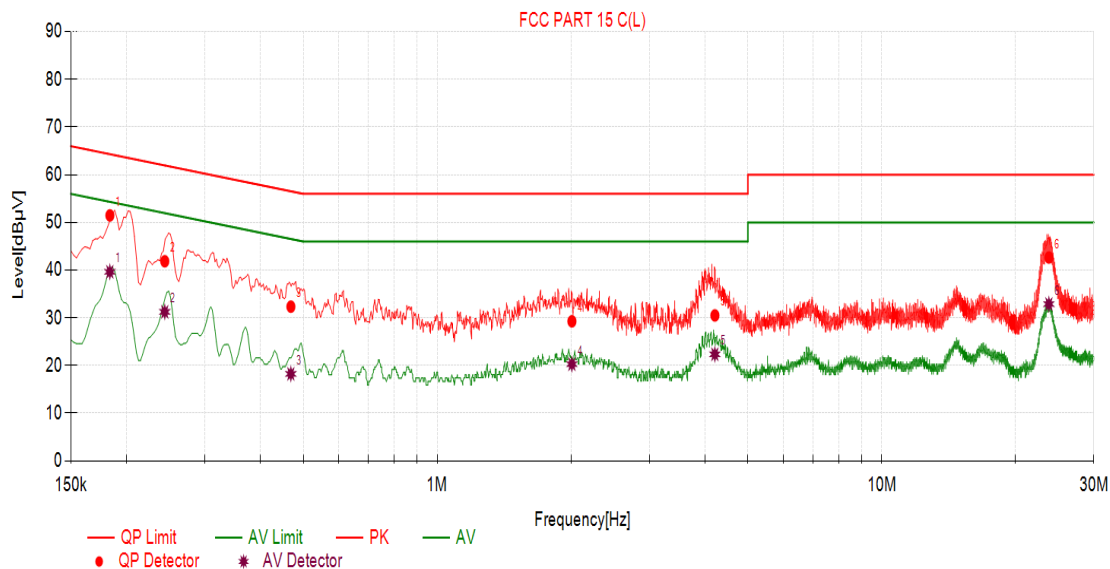
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Mode:a; Line:Live Line



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1836	10.10	51.48	64.32	12.84	39.65	54.32	14.67	PASS
2	0.2440	10.10	41.87	61.96	20.09	31.25	51.96	20.71	PASS
3	0.4688	10.10	32.35	56.54	24.19	18.24	46.54	28.30	PASS
4	2.0097	10.10	29.28	56.00	26.72	20.28	46.00	25.72	PASS
5	4.2139	10.10	30.51	56.00	25.49	22.35	46.00	23.65	PASS
6	23.7692	10.11	42.66	60.00	17.34	32.88	50.00	17.12	PASS



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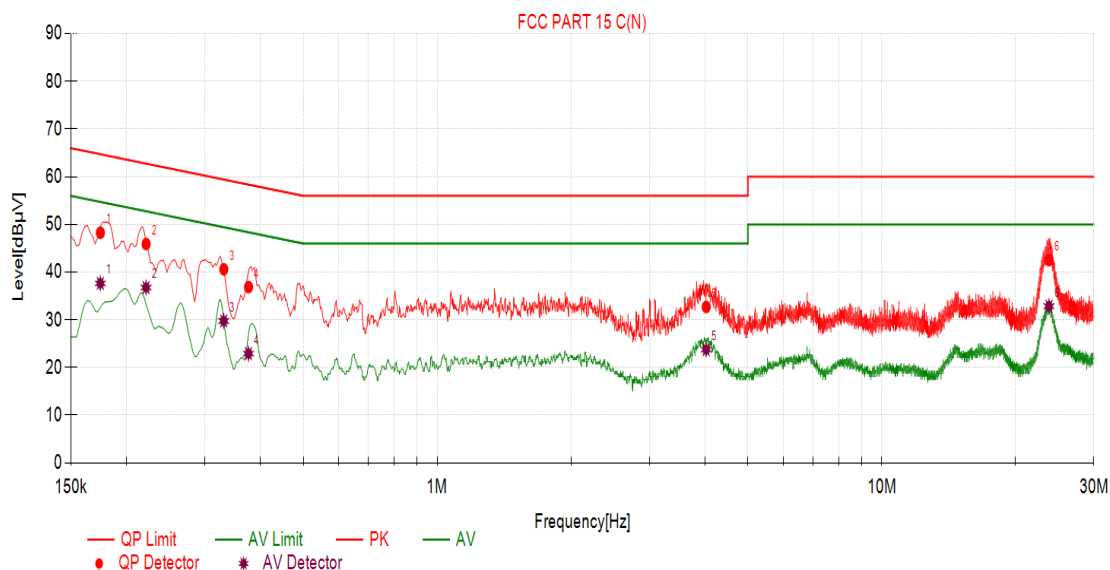
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Mode:a; Line:Neutral Line



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1748	10.10	48.27	64.73	16.46	37.65	54.73	17.08	PASS
2	0.2215	10.10	45.91	62.76	16.85	36.77	52.76	15.99	PASS
3	0.3312	10.10	40.61	59.42	18.81	29.76	49.42	19.66	PASS
4	0.3765	10.10	36.87	58.36	21.49	22.92	48.36	25.44	PASS
5	4.0282	10.10	32.71	56.00	23.29	23.76	46.00	22.24	PASS
6	23.7812	10.11	42.52	60.00	17.48	32.85	50.00	17.15	PASS



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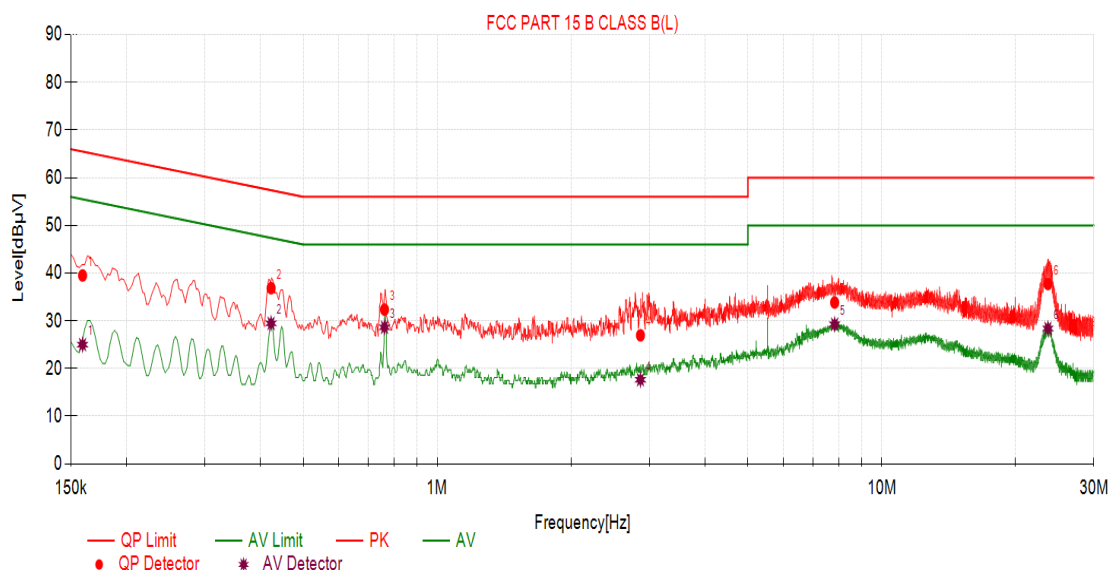
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Mode:h; Line:Live Line



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1594	10.10	39.51	65.49	25.98	25.01	55.49	30.48	PASS
2	0.4232	10.10	36.84	57.38	20.54	29.47	47.38	17.91	PASS
3	0.7614	10.10	32.36	56.00	23.64	28.64	46.00	17.36	PASS
4	2.8658	10.10	26.97	56.00	29.03	17.65	46.00	28.35	PASS
5	7.8352	10.10	33.84	60.00	26.16	29.27	50.00	20.73	PASS
6	23.6478	10.11	37.73	60.00	22.27	28.40	50.00	21.60	PASS



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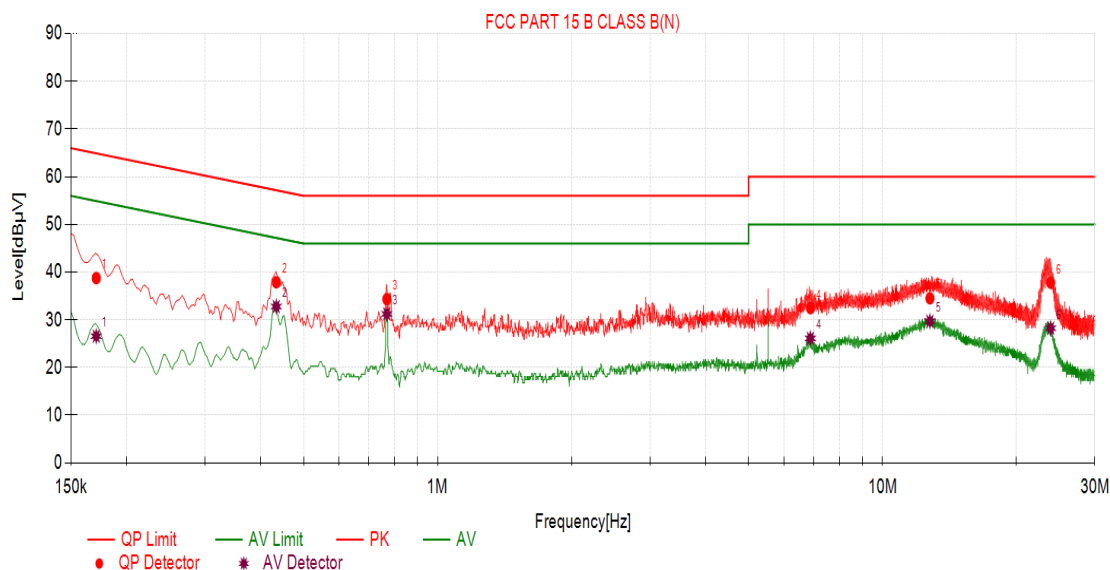
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Mode:h; Line:Neutral Line



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1710	10.10	38.76	64.91	26.15	26.57	54.91	28.34	PASS
2	0.4342	10.10	37.88	57.17	19.29	32.79	47.17	14.38	PASS
3	0.7693	10.10	34.34	56.00	21.66	31.24	46.00	14.76	PASS
4	6.8869	10.10	32.46	60.00	27.54	26.11	50.00	23.89	PASS
5	12.7807	10.11	34.52	60.00	25.48	29.70	50.00	20.30	PASS
6	23.8731	10.11	37.80	60.00	22.20	28.25	50.00	21.75	PASS



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2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Limit:	
30MHz -88MHz	40.0(dBμV/m) quasi-peak
88MHz-216MHz	43.5(dBμV/m) quasi-peak
216MHz-960MHz	46.0(dBμV/m) quasi-peak
960MHz-1000MHz	54.0(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

2.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

- Pretest these modes to find the worst case:
- a: Transfer data between the EUT and the PC+USB cable1
 - b: GSM 850 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +NFC+battery1+Cable(worst)+adapter1
 - c: WCDMA Band V Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
 - d: LTE Band 5 Idle +BT+WLAN +GPS Rx+playing MP4 (SD card) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
 - e: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
 - f: LTE Band 13 Idle+BT+WLAN +GPS Rx+camera (Front) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
 - g: LTE Band 71 Idle+BT+WLAN +GPS Rx+camera (Front) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
 - h: LTE NR Band N5 Idle+BT+WLAN +GPS Rx+camera (Back) +NFC+ battery(worst)+ Cable(worst)+adapter(worst)
 - i: LTE NR Band N71 Idle+BT+WLAN +GPS Rx+camera (Back) + NFC+ battery(worst)+ Cable(worst)+adapter(worst)

The worst case for final test:

- a: Transfer data between the EUT and the PC+USB cable1
- c: WCDMA Band V Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +NFC+battery(worst)+ Cable(worst)+adapter(worst)



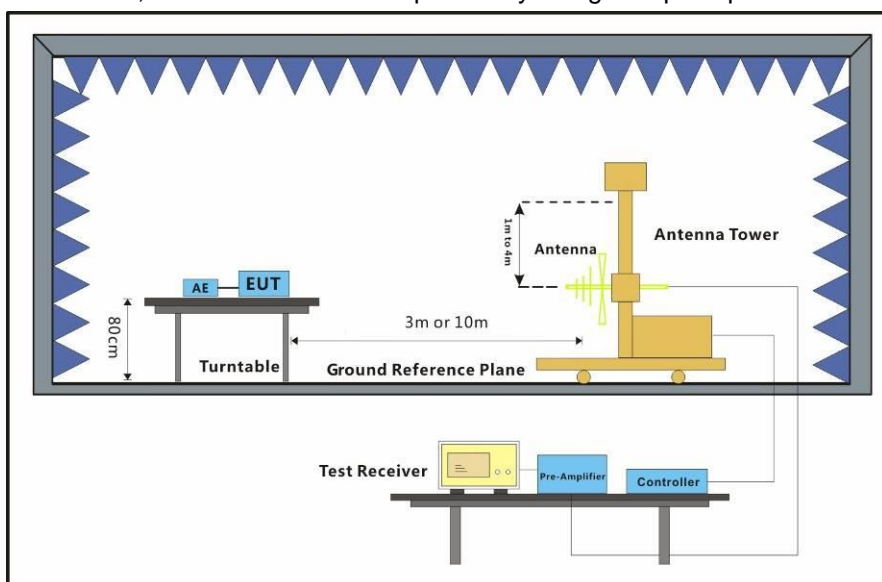
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2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
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 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.

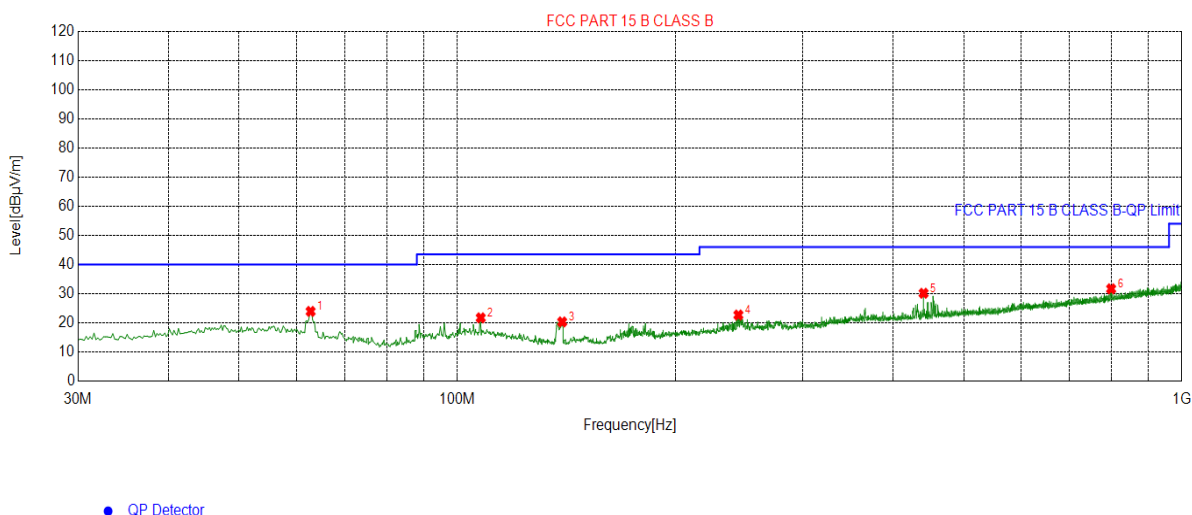


2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.

Mode:a; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	62.7926	23.91	-28.67	40.00	16.09	203	134	Horizontal
2	107.809	21.71	-28.12	43.50	21.79	236	106	Horizontal
3	139.631	20.31	-31.33	43.50	23.19	198	0	Horizontal
4	244.412	22.68	-26.92	46.00	23.32	156	12	Horizontal
5	440.198	30.14	-22.19	46.00	15.86	167	4	Horizontal
6	798.781	31.65	-15.97	46.00	14.35	188	49	Horizontal



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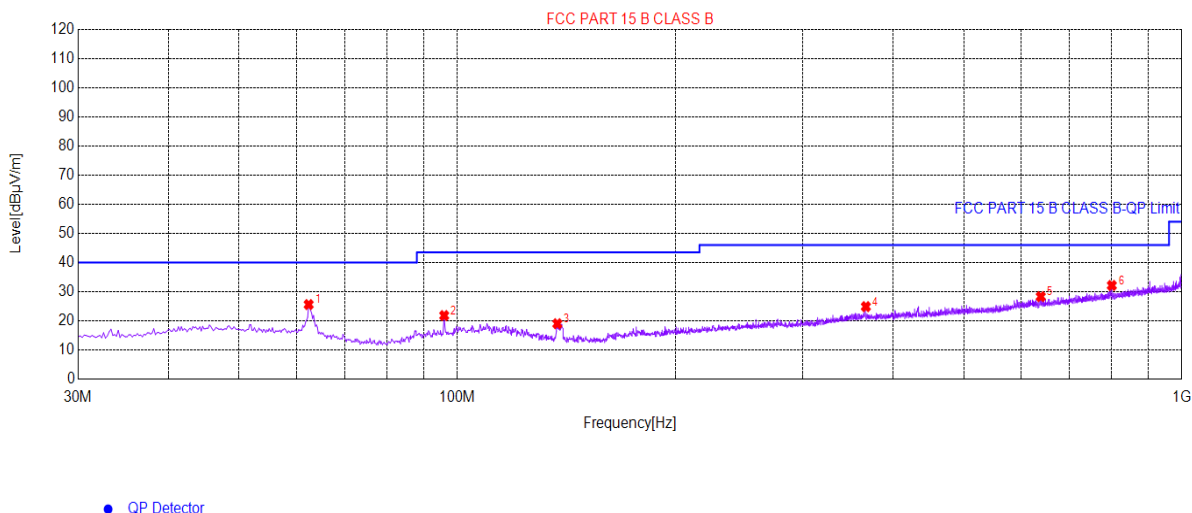
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Mode:a; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	62.4045	25.59	-28.57	40.00	14.41	174	118	Vertical
2	95.9732	21.80	-28.82	43.50	21.70	198	338	Vertical
3	137.497	19.01	-31.26	43.50	24.49	165	0	Vertical
4	366.463	24.87	-23.17	46.00	21.13	215	358	Vertical
5	638.699	28.31	-18.15	46.00	17.69	236	2	Vertical
6	800.528	32.13	-15.95	46.00	13.87	224	107	Vertical

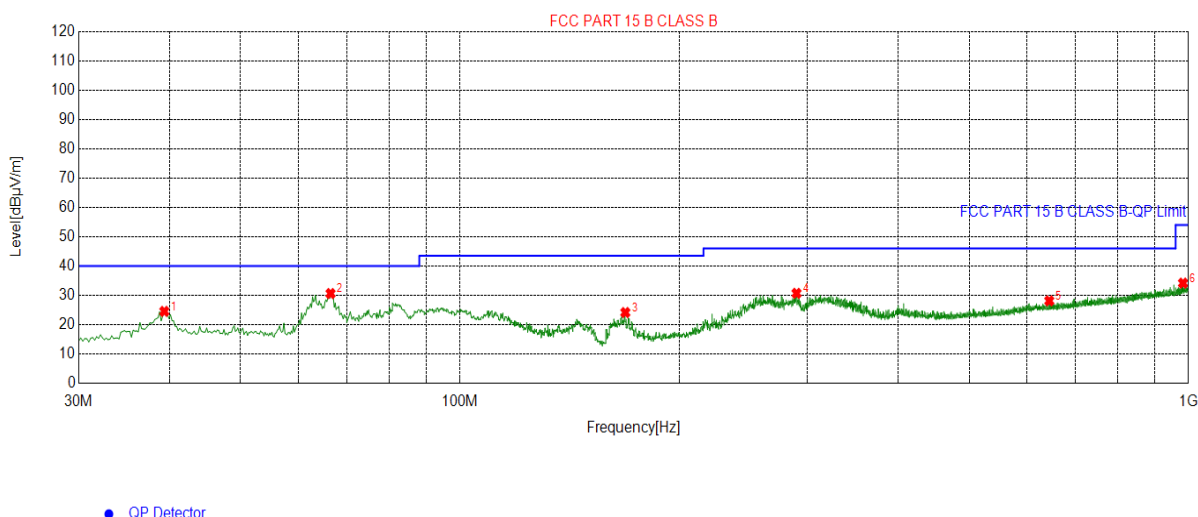


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Mode:c; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.3139	24.54	-27.70	40.00	15.46	236	282	Horizontal
2	66.4793	30.61	-29.61	40.00	9.39	247	90	Horizontal
3	168.737	24.14	-30.24	43.50	19.36	269	355	Horizontal
4	289.818	30.70	-26.08	46.00	15.30	285	62	Horizontal
5	644.132	28.12	-18.11	46.00	17.88	215	32	Horizontal
6	982.730	34.16	-13.18	54.00	19.84	196	66	Horizontal



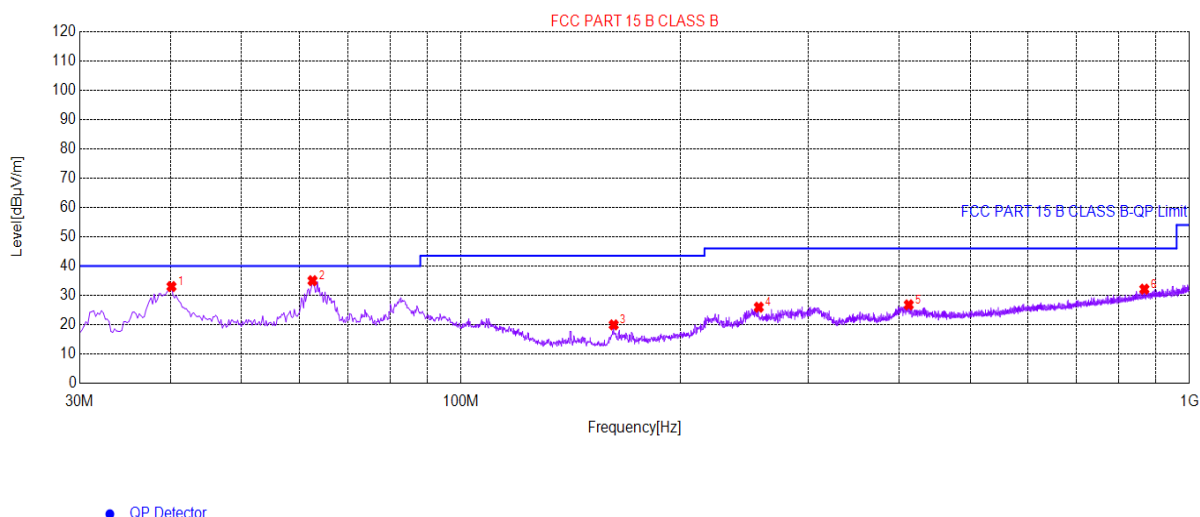
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Mode:c; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.0900	33.00	-27.46	40.00	7.00	187	274	Vertical
2	62.5985	34.98	-28.62	40.00	5.02	196	256	Vertical
3	162.140	19.93	-30.52	43.50	23.57	188	292	Vertical
4	256.443	25.94	-26.65	46.00	20.06	174	165	Vertical
5	411.868	26.77	-22.72	46.00	19.23	156	342	Vertical
6	867.083	32.11	-14.67	46.00	13.89	182	297	Vertical



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2.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4:2014
Frequency Range: Above 1GHz
Measurement Distance: 3m
Limit:
Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average
Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

2.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: GSM 850 Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +battery1+Cable(worst)+adapter1
- c: WCDMA Band V Idle+BT+WLAN +GPS Rx+playing MP4 (SD card) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
- d: LTE Band 5 Idle +BT+WLAN +GPS Rx+playing MP4 (SD card) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
- e: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
- f: LTE Band 13 Idle+BT+WLAN +GPS Rx+camera (Front) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
- g: LTE Band 71 Idle+BT+WLAN +GPS Rx+camera (Front) +NFC+battery(worst)+ Cable(worst)+adapter(worst)
- h: LTE NR Band N5 Idle+BT+WLAN +GPS Rx+camera (Back) +NFC+ battery(worst)+ Cable(worst)+adapter(worst)
- i: LTE NR Band N71 Idle+BT+WLAN +GPS Rx+camera (Back) +NFC+ battery(worst)+ Cable(worst)+adapter(worst)

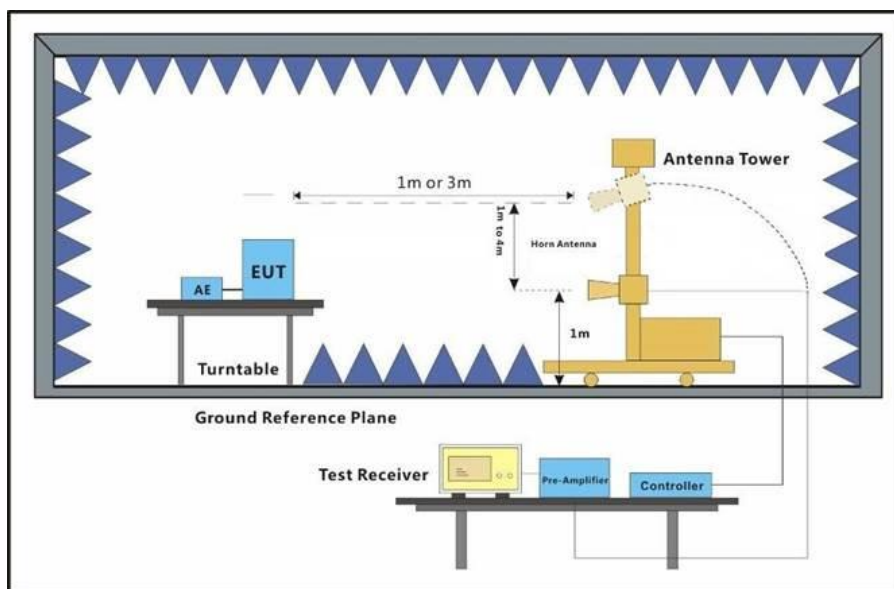
The worst case for final test:

- a: Transfer data between the EUT and the PC+USB cable1
- e: LTE Band 12 Idle+BT+WLAN +GPS Rx+camera (Front) +NFC+battery(worst)+ Cable(worst)+adapter(worst)



2.3.2 Test Setup Procedures

1. The EUT was placed in a full Anechoic Chamber as show below
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 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.



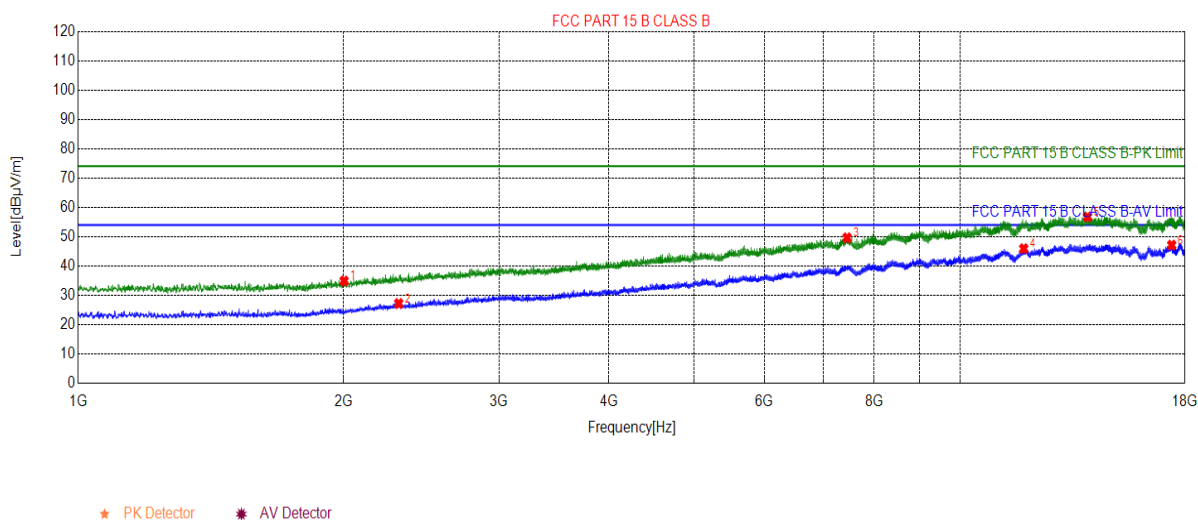
2.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.

Scan from 1GHz to 30GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed.

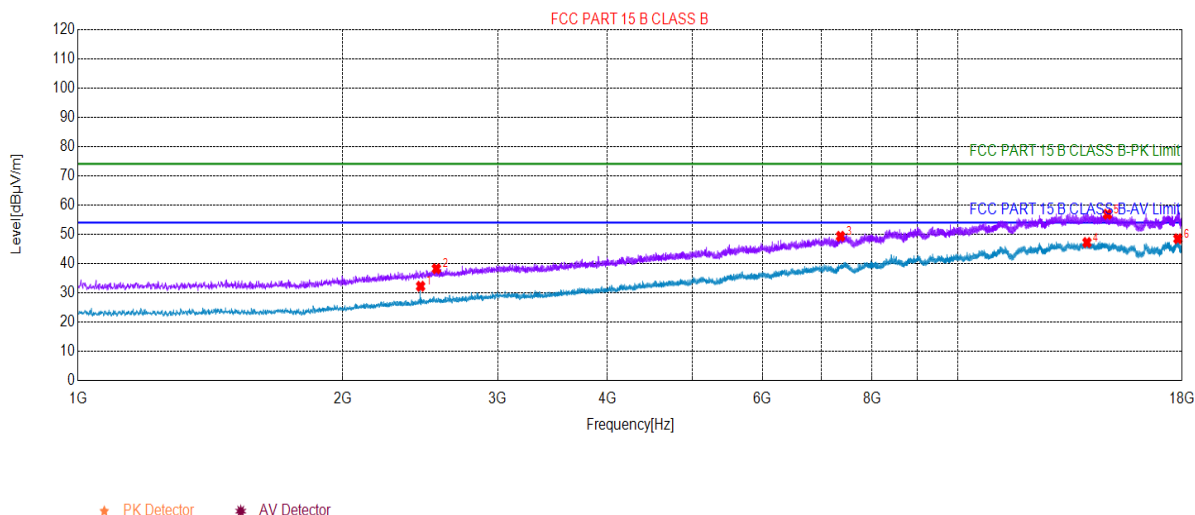
Mode:a; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2002.20	34.87	-27.69	74.00	39.13	174	16	Horizontal
2	2309.06	27.21	-25.75	54.00	26.79	225	14	Horizontal
3	7449.27	49.60	-8.08	74.00	24.40	162	212	Horizontal
4	11819.3	45.90	-0.27	54.00	8.10	245	24	Horizontal
5	13963.9	56.73	2.98	74.00	17.27	124	144	Horizontal
6	17398.1	47.12	-0.25	54.00	6.88	131	168	Horizontal

Mode:a; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2451.87	32.22	-25.02	54.00	21.78	242	221	Vertical
2	2555.57	38.22	-24.30	74.00	35.78	223	199	Vertical
3	7362.56	49.30	-8.51	74.00	24.70	325	186	Vertical
4	14038.8	47.16	2.33	54.00	6.84	355	0	Vertical
5	14813.1	56.81	2.36	74.00	17.19	123	132	Vertical
6	17814.6	48.46	-0.22	54.00	5.54	234	261	Vertical

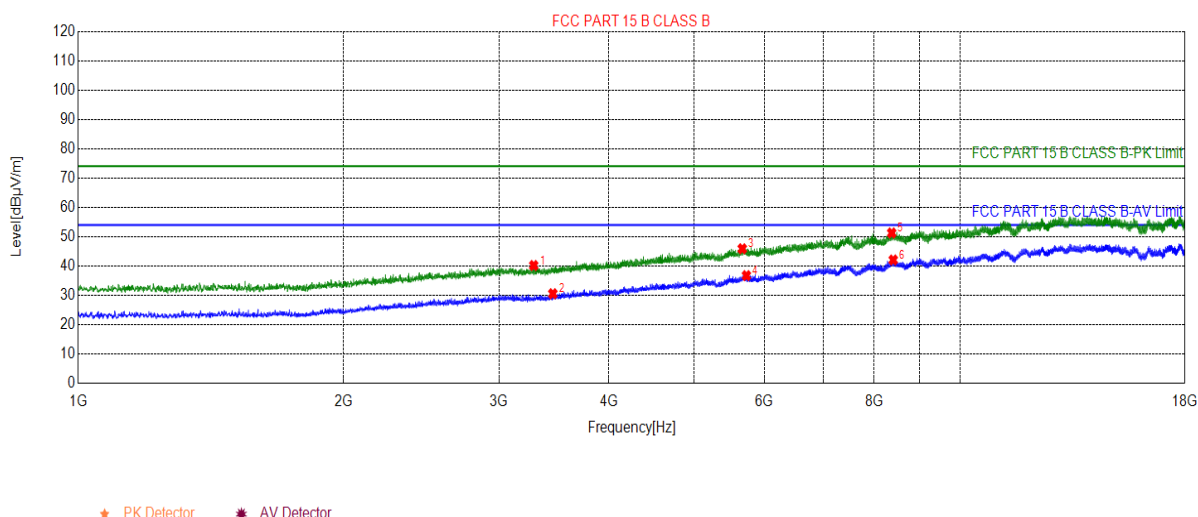


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Mode:e; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3285.76	40.17	-21.65	74.00	33.83	174	175	Horizontal
2	3454.07	30.55	-21.17	54.00	23.45	185	193	Horizontal
3	5665.88	45.88	-12.77	74.00	28.12	213	216	Horizontal
4	5727.93	36.72	-12.70	54.00	17.28	216	219	Horizontal
5	8371.56	51.25	-6.44	74.00	22.75	128	336	Horizontal
6	8404.72	42.06	-6.26	54.00	11.94	219	69	Horizontal

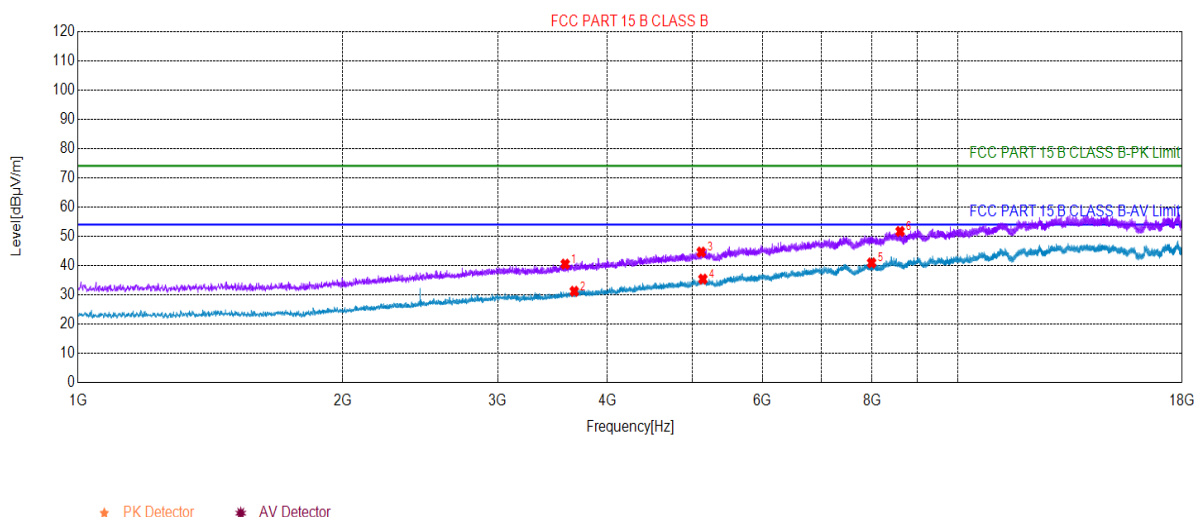


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Mode:e; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3580.72	40.47	-20.76	74.00	33.53	123	245	Vertical
2	3666.58	31.18	-20.50	54.00	22.82	159	94	Vertical
3	5112.50	44.57	-14.72	74.00	29.43	196	26	Vertical
4	5134.60	35.35	-14.49	54.00	18.65	184	360	Vertical
5	7987.34	40.88	-7.36	54.00	13.12	213	130	Vertical
6	8607.03	51.64	-5.61	74.00	22.36	261	62	Vertical



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3 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
5G UXM	Keysight	E7515B	XAW01-19-02	2020-09-11	2021-09-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR



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RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2021-04-01	2022-03-31
Spectrum Analyzer	Keysight	N9020B	XAW01-11-03	2021-04-01	2022-03-31
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2021-04-01	2022-03-31
				2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz~3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
5G UXM	Keysight	E7515B	XAW01-04-01	2020-09-11	2021-09-10
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RE V3.0.0.2	XAW02-05-01	NCR	NCR



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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 6GHz)
		$\pm 4.5\text{dB}$ (6GHz to 18GHz)
		$\pm 5.02\text{dB}$ (Above 18GHz)



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5 Photographs

5.1 Test Setup

Refer to Appendix A Setup Photos.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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