

Report No.: SEWM2204000030RG05
Rev.: 01
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TEST REPORT

Application No: SEWM2204000030RG
Applicant: HMD Global Oy
Address of Applicant: Bertel Jungin aukio 9, Espoo 02600, Finland
Manufacturer: HMD Global Oy
Address of Manufacturer: Bertel Jungin aukio 9, Espoo 02600, Finland
EUT Description: Smart Phone
Model No.: TA-1391
Trade Mark: Nokia
FCC ID: 2AJOTTA-1391
Standard(s) : FCC 47 CFR Part 15, Subpart B
Date of Receipt: 2021/4/1
Date of Test: 2022/4/21 to 2021/4/22
Date of Issue: 2022/5/20

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

Authorized Signature:

Panta Sun

Panta Sun



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Revision Record

Version	Chapter	Date	Modifier	Remark
01		2022/5/20		Original

Prepared By	<i>Weller Liu</i>
	(Weller Liu) / Test Supervisor
Checked By	<i>Well Wei</i>
	(Well Wei) / Reviewer

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Test Summary

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

Remark:

This test report (Report No.: SEWM2204000030RG05 issue on 2022/5/20) is based on the original FCC ID with ID number 2AJOTTA-1391 issued on 2021/4/21.

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report all the data were retested.



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1 General Information

Product Name:	Smart Phone		
Model No.(EUT):	TA-1391		
Trade Mark:	Nokia		
Hardware Version:	19545_1_10		
Software Version:	V1.260_A01		
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 7	2500~2570	2620~2690
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	FM	/	88~108
	NFC	13.56	/
	GNSS(GPS+Glonass + Beidou)	/	1559~1610
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Accessory:

Adapter no.	Model no.	Manufacturer
1	CH-35E	Shenzhen Tianyin Electronics Co.
2	CH-35E	Yutong Electronics (Huizhou) Co., Ltd
3	CH-51B	Shenzhen Tianyin Electronics Co.
4	CH-35X	Shenzhen Tianyin Electronics Co.
5	CH-35A	Shenzhen Tianyin Electronics Co.
6	CH-35U	Shenzhen Tianyin Electronics Co.

Earphone no.	Model no.	Manufacturer
1	HS-34	Huizhou New Leader Industry Co., Ltd

USB cable no.	Model no.	Manufacturer
1	CB-35A	Shenzhen BRL Technology Co., Ltd
2	CB-35A	Leagtech Electronics Co., Ltd

Battery	Model no.	Manufacturer
1	WT140	Guangdong Fenghua New Energy Co., Ltd.
2	WT140	Hunan ADF Alternative Energy Technology Co., LTD

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1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	Smavwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01
Computer	Lenovo	T14	SUWI-03-33-04
Mouse	Lenovo	3D optical Mouse	SUWI-03-33-05
Adaptor	Huawei	HW-050200C02	SUWI-03-33-06

1.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li

1.3 Test Facility

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

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		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency Range(MHz)		Limit(dB μ V)
		Quasi-peak	average
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*
	0.5M-5MHz	56	46
	5M-30MHz	60	50

*Decreases with the logarithm of the frequency
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

2.1.1 E.U.T. Operation

Operating Environment:

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: Adaptor(1)+USB(1)+Earphone(1)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle b: Adaptor(1)+USB(1)+Earphone(2)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle c: Adaptor(1)+USB(1)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle d: Adaptor(1)+USB(2)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle e: Adaptor(1)+USB(3)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle f. Adaptor(2)+USB(1)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle g. Adaptor(2)+USB(1)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle h. Transfer data between the EUT and the PC+USB(1)+WLAN(2.4G) i. Transfer data between the EUT and the PC+USB(2)+WLAN(2.4G) j. Transfer data between the EUT and the PC+USB(3)+WLAN(2.4G)
The worst case for final test:	h. Transfer data between the EUT and the PC+USB(1)+WLAN(2.4G) g. Adaptor(2)+USB(1)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle

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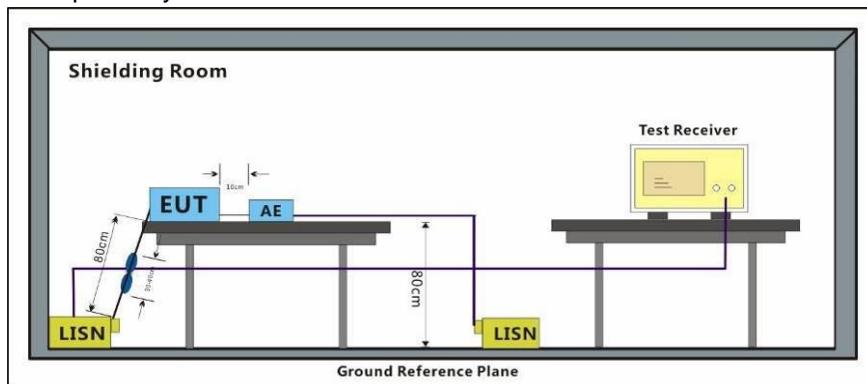
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2.1.2 Test Setup Procedures

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.



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Wireless Laboratory

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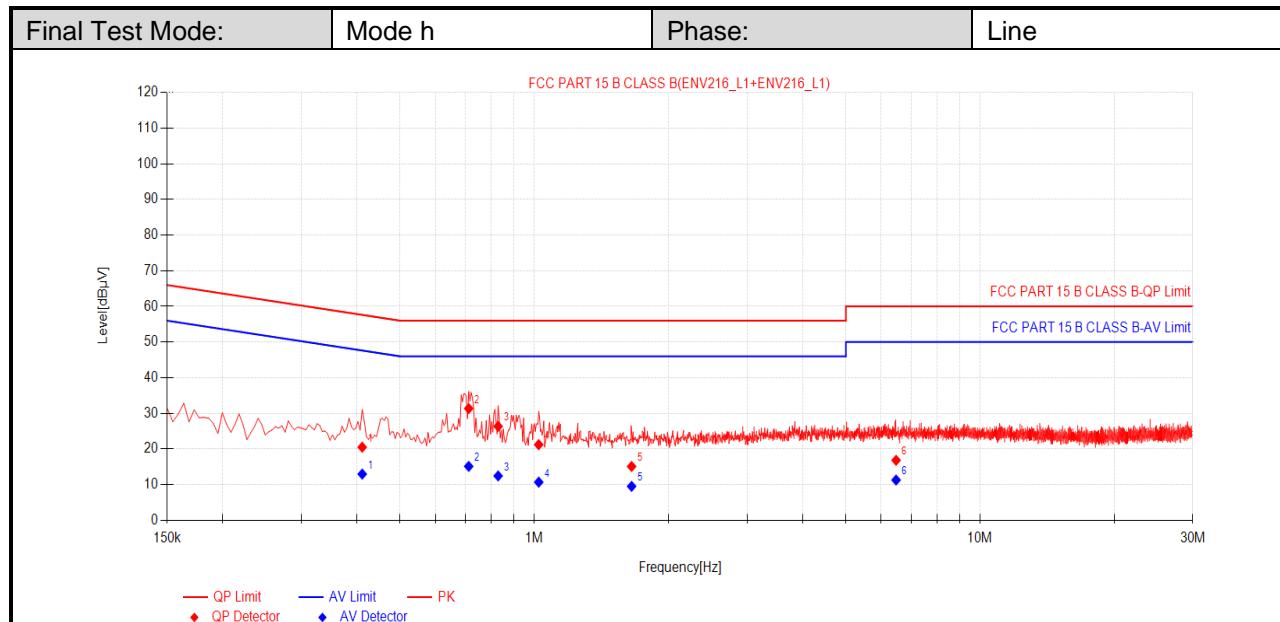
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Test on the worst case:



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.4110	10.51	20.51	57.63	37.12	12.97	47.63	34.66	PASS
2	0.7125	10.57	31.36	56.00	24.64	15.13	46.00	30.87	PASS
3	0.8295	10.53	26.36	56.00	29.64	12.45	46.00	33.55	PASS
4	1.0230	10.51	21.23	56.00	34.77	10.70	46.00	35.30	PASS
5	1.6530	10.75	15.11	56.00	40.89	9.53	46.00	36.47	PASS
6	6.4815	10.69	16.83	60.00	43.17	11.30	50.00	38.70	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Reading + Factor(Lisn factor + cable loss).



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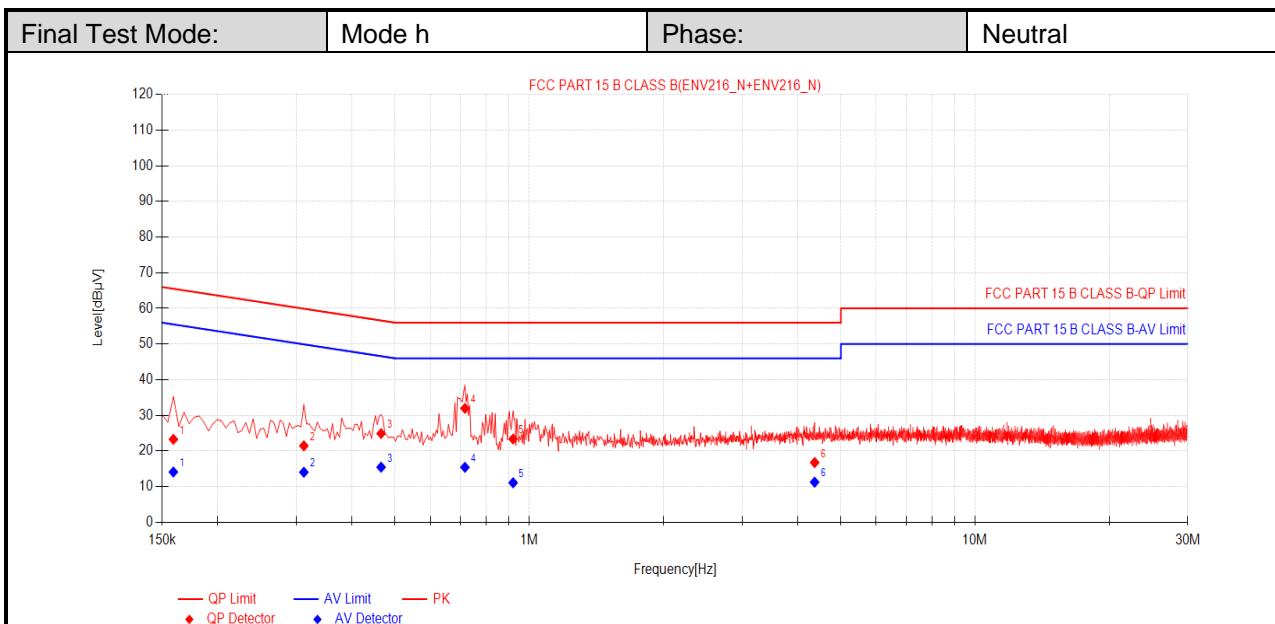
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Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dB μ V]	QP Limit [dB μ V]	QP Margin [dB]	AV Value [dB μ V]	AV Limit [dB μ V]	AV Margin [dB]	Verdict
1	0.1590	10.72	23.28	65.52	42.24	14.11	55.52	41.41	PASS
2	0.3120	10.77	21.45	59.92	38.47	14.06	49.92	35.86	PASS
3	0.4650	10.81	24.90	56.60	31.70	15.47	46.60	31.13	PASS
4	0.7170	10.81	31.95	56.00	24.05	15.43	46.00	30.57	PASS
5	0.9195	10.74	23.38	56.00	32.62	11.09	46.00	34.91	PASS
6	4.3665	10.70	16.76	56.00	39.24	11.27	46.00	34.73	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Value Level =Reading + Factor(Lisn factor + cable loss).



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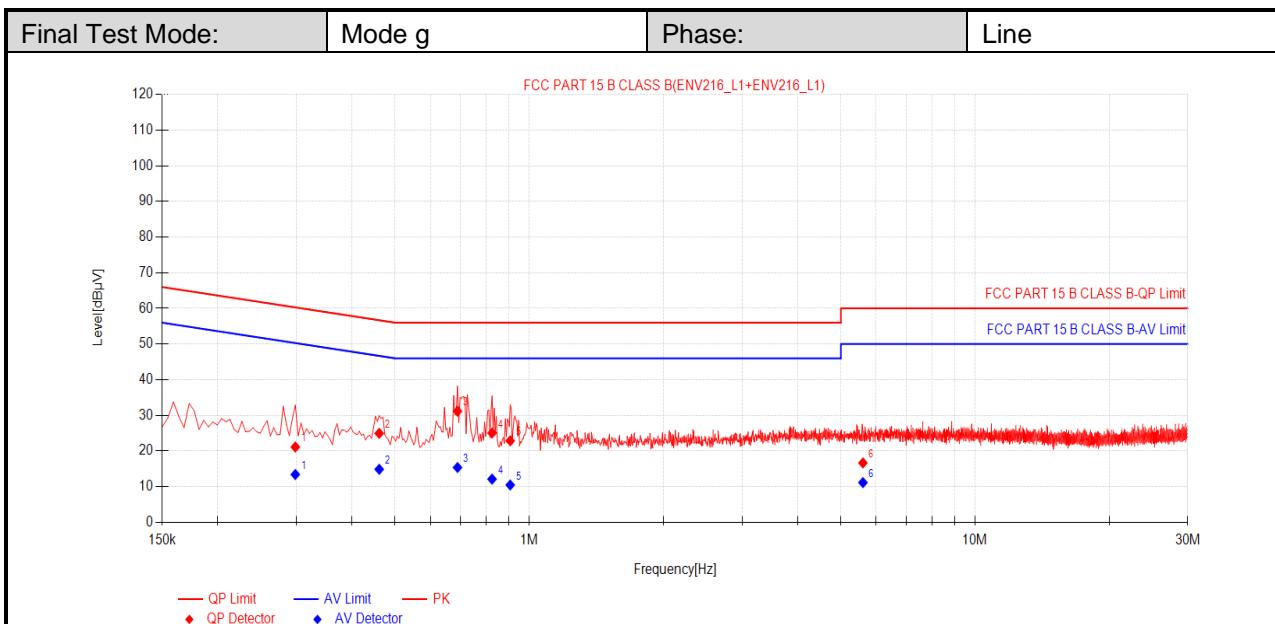
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Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2985	10.64	21.12	60.28	39.16	13.42	50.28	36.86	PASS
2	0.4605	10.57	24.96	56.68	31.72	14.87	46.68	31.81	PASS
3	0.6900	10.57	31.18	56.00	24.82	15.38	46.00	30.62	PASS
4	0.8250	10.53	25.05	56.00	30.95	12.12	46.00	33.88	PASS
5	0.9060	10.59	22.86	56.00	33.14	10.46	46.00	35.54	PASS
6	5.6040	10.66	16.66	60.00	43.34	11.14	50.00	38.86	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Reading + Factor(Lisn factor + cable loss).



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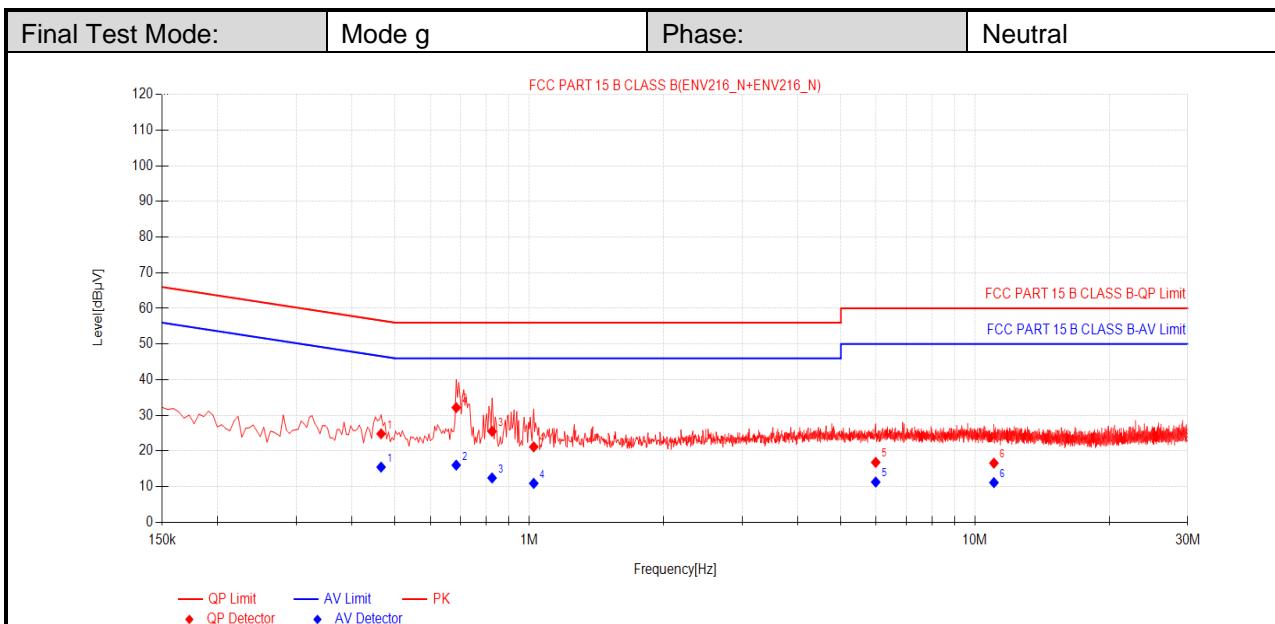
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Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dB μ V]	QP Limit [dB μ V]	QP Margin [dB]	AV Value [dB μ V]	AV Limit [dB μ V]	AV Margin [dB]	Verdict
1	0.4650	10.81	24.84	56.60	31.76	15.49	46.60	31.11	PASS
2	0.6855	10.79	32.18	56.00	23.82	16.03	46.00	29.97	PASS
3	0.8250	10.80	25.50	56.00	30.50	12.44	46.00	33.56	PASS
4	1.0230	10.64	21.16	56.00	34.84	10.93	46.00	35.07	PASS
5	5.9865	10.58	16.81	60.00	43.19	11.29	50.00	38.71	PASS
6	11.0265	10.66	16.59	60.00	43.41	11.14	50.00	38.86	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
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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:	Frequency Range(MHz)	Limit(dB μ V/m)	Detector
	30MHz -88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1000MHz	54.0	Quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz		

2.2.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46% RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: Adaptor(1)+USB(1)+Earphone(1)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle b: Adaptor(1)+USB(1)+Earphone(2)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle c. Adaptor(1)+USB(1)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle d: Adaptor(1)+USB(2)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle e: Adaptor(1)+USB(3)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle f. Adaptor(2)+USB(1)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle g. Adaptor(2)+USB(1)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle h. Transfer data between the EUT and the PC+USB(1)+WLAN(2.4G) i. Transfer data between the EUT and the PC+USB(2)+WLAN(2.4G) j. Transfer data between the EUT and the PC+USB(3)+WLAN(2.4G)
The worst case for final test:	h. Transfer data between the EUT and the PC+USB(1)+WLAN(2.4G) c. Adaptor(1)+USB(1)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle

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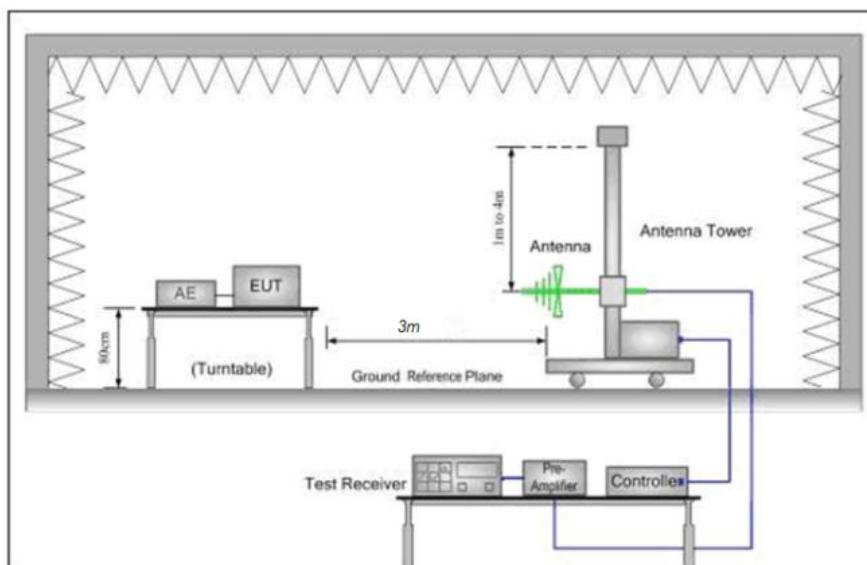
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2.2.2 Test Setup Procedures

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.



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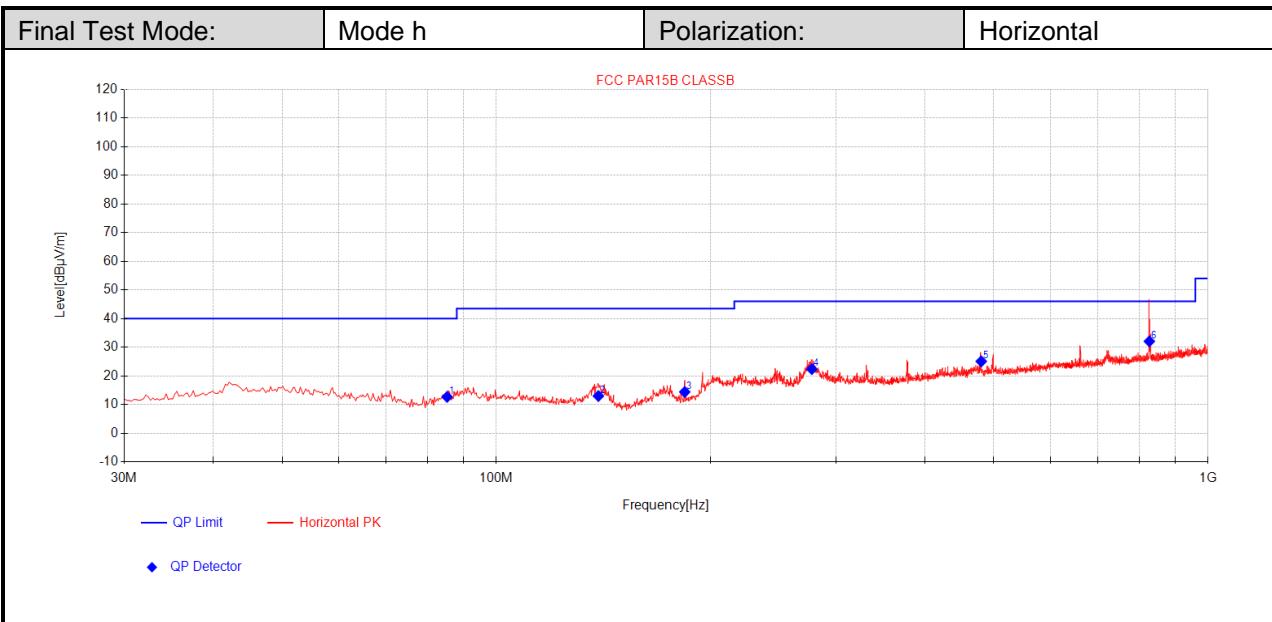
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Test on the worst case:

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NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	85.29	32.14	-19.47	12.67	40.00	27.33	120	263	Horizontal
2	139.125	32.56	-19.58	12.98	43.50	30.52	231	3	Horizontal
3	183.9875	32.52	-18.13	14.39	43.50	29.11	142	136	Horizontal
4	277.5925	36.51	-14.13	22.38	46.00	23.62	262	233	Horizontal
5	480.08	33.62	-8.56	25.06	46.00	20.94	144	352	Horizontal
6	827.0975	34.62	-2.57	32.05	46.00	13.95	107	57	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Final Value Level = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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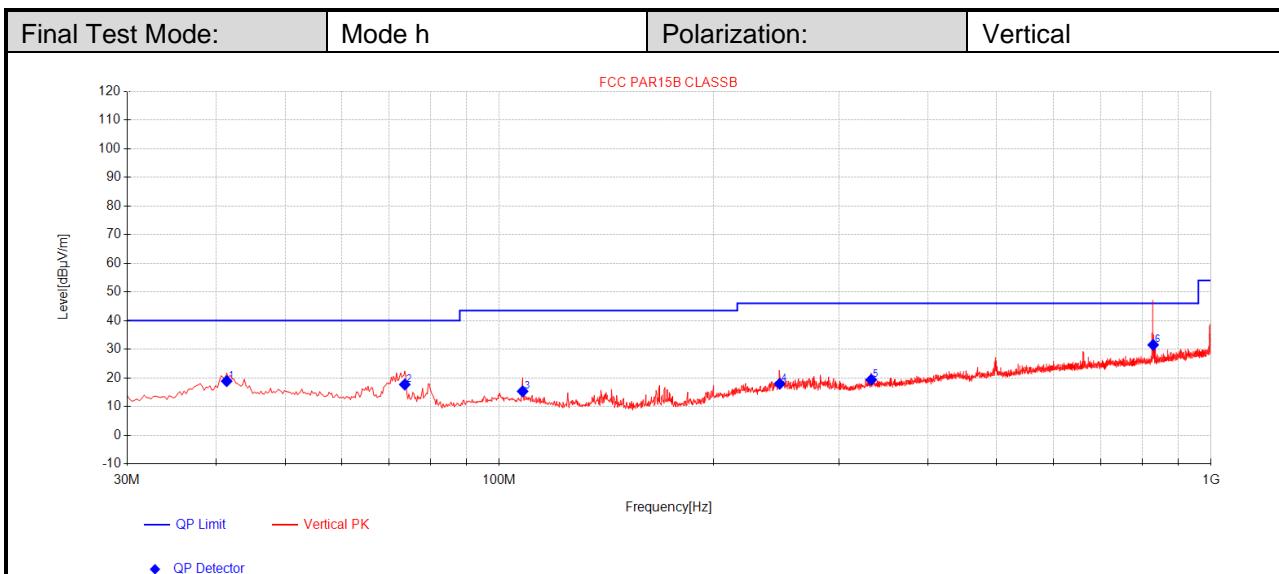
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Final Data List

NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.3975	34.56	-15.69	18.87	40.00	21.13	231	0	Vertical
2	73.65	37.42	-19.73	17.69	40.00	22.31	142	216	Vertical
3	107.8425	32.02	-16.69	15.33	43.50	28.17	152	340	Vertical
4	247.765	32.12	-14.16	17.96	46.00	28.04	126	4	Vertical
5	333.125	31.06	-11.70	19.36	46.00	26.64	211	358	Vertical
6	829.28	33.96	-2.44	31.52	46.00	14.48	106	272	Vertical

Remark:

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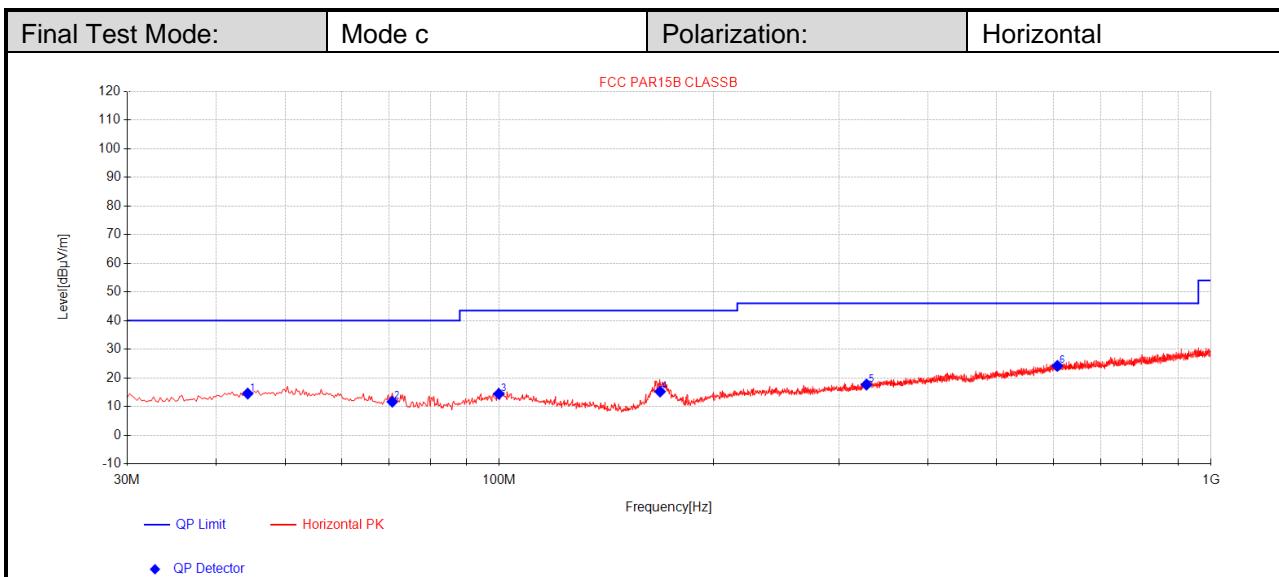
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Final Data List

NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.3075	29.62	-15.09	14.53	40.00	25.47	103	340	Horizontal
2	70.74	30.86	-19.18	11.68	40.00	28.32	152	10	Horizontal
3	99.84	31.02	-16.59	14.43	43.50	29.07	132	136	Horizontal
4	168.225	33.86	-18.63	15.23	43.50	28.27	142	3	Horizontal
5	328.0325	29.65	-11.99	17.66	46.00	28.34	111	115	Horizontal
6	608.3625	29.42	-5.22	24.20	46.00	21.80	144	262	Horizontal

Remark:

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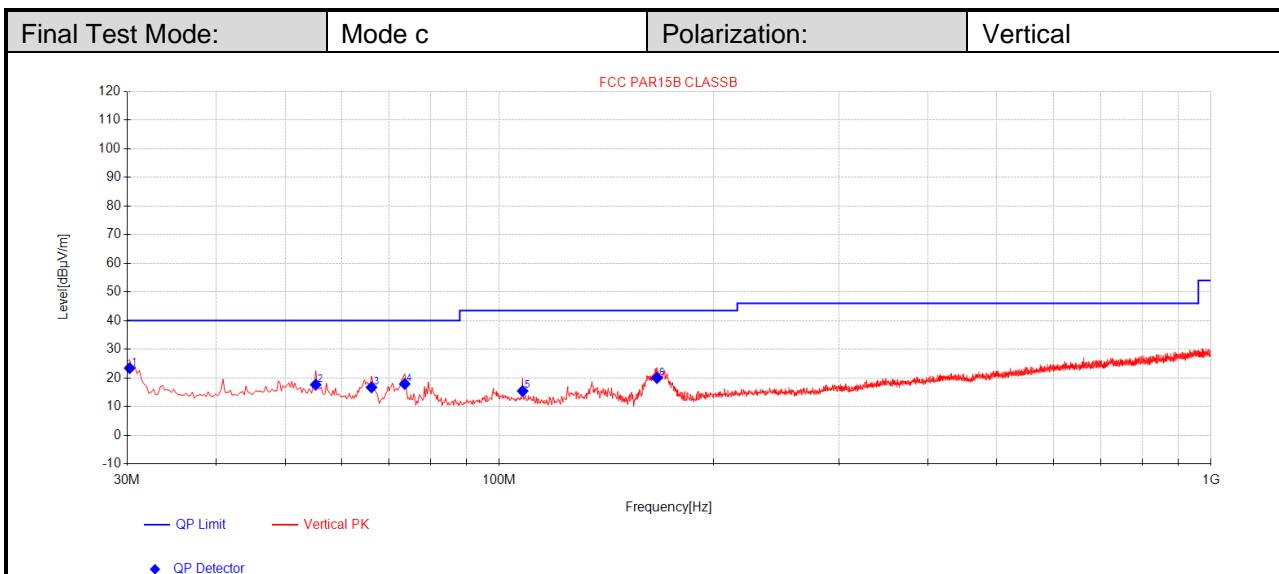
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Final Data List

NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.2425	41.65	-18.25	23.40	40.00	16.60	163	205	Vertical
2	55.22	32.88	-15.26	17.62	40.00	22.38	251	10	Vertical
3	66.1325	34.65	-17.95	16.70	40.00	23.30	142	272	Vertical
4	73.65	37.62	-19.73	17.89	40.00	22.11	263	245	Vertical
5	107.8425	32.11	-16.69	15.42	43.50	28.08	241	118	Vertical
6	166.5275	38.65	-18.70	19.95	43.50	23.55	144	3	Vertical

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Final Value Level = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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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:	Frequency (MHz)	Limit (dB μ V/m)	Detector
	Above 1GHz	74	Peak
		54	Average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.		

2.3.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46% RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: Adaptor(1)+USB(1)+Earphone(1)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle b: Adaptor(1)+USB(1)+Earphone(2)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle c. Adaptor(1)+USB(1)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle d: Adaptor(1)+USB(2)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle e: Adaptor(1)+USB(3)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle f. Adaptor(2)+USB(1)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle g. Adaptor(2)+USB(1)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle h. Transfer data between the EUT and the PC+USB(1)+WLAN(2.4G) i. Transfer data between the EUT and the PC+USB(2)+WLAN(2.4G) j. Transfer data between the EUT and the PC+USB(3)+WLAN(2.4G)
The worst case for final test:	i. Transfer data between the EUT and the PC+USB(2)+WLAN(2.4G) c. Adaptor(1)+USB(1)+Earphone(3)+Battery+BT Idle+WLAN(2.4G)+GPS RX +Camera(Back)+LTE Band5 Idle

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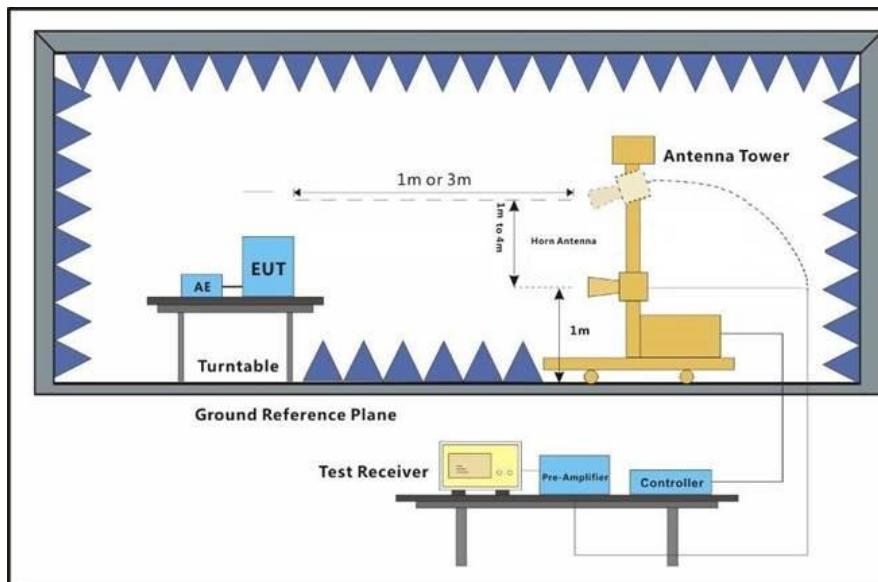
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2.3.2 Test Setup Procedures

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
(Distance from antenna to EUT is 1m for measurements >18GHz).
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.
7. At a measurement distance of 1 meter the limit line was increased by $20 \times \log(3/1) = 9.54$ dB.



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 5th harmonic of the highest frequency or 40GHz, whichever is lower, 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.



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Test on the worst case:

Final Test Mode:	Mode i	Polarization:	Horizontal						
FCC PART 15B CLASSB									
Data List									
NO.	Frequency [MHz]	Reading [dB μ V]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2077.8	53.45	32.58	-20.87	74.00	41.42	142	12	Horizontal
2	5957.2	52.55	43.21	-9.34	74.00	30.79	263	2	Horizontal
3	11840.9	46.33	50.13	3.80	74.00	23.87	286	34	Horizontal
4	2847.9	43.74	26.09	-17.65	54.00	27.91	254	236	Horizontal
5	8332.95	40.97	38.38	-2.59	54.00	15.62	175	313	Horizontal
6	14954.45	35.08	40.18	5.10	54.00	13.82	265	236	Horizontal
Remark: <ol style="list-style-type: none"> The Quasi-Peak and Average measurements were performed on the EUT. Final Value Level = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor). 									



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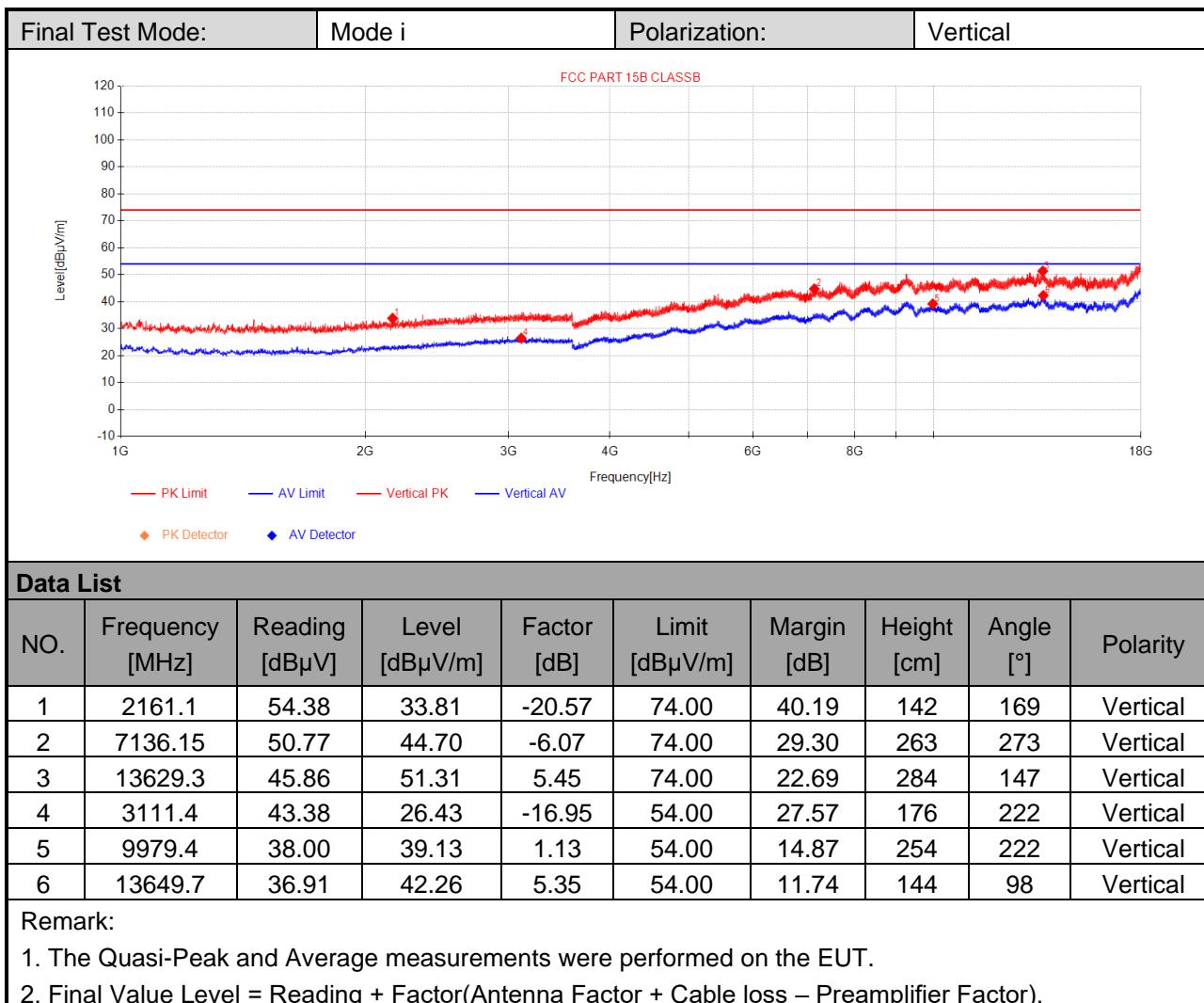
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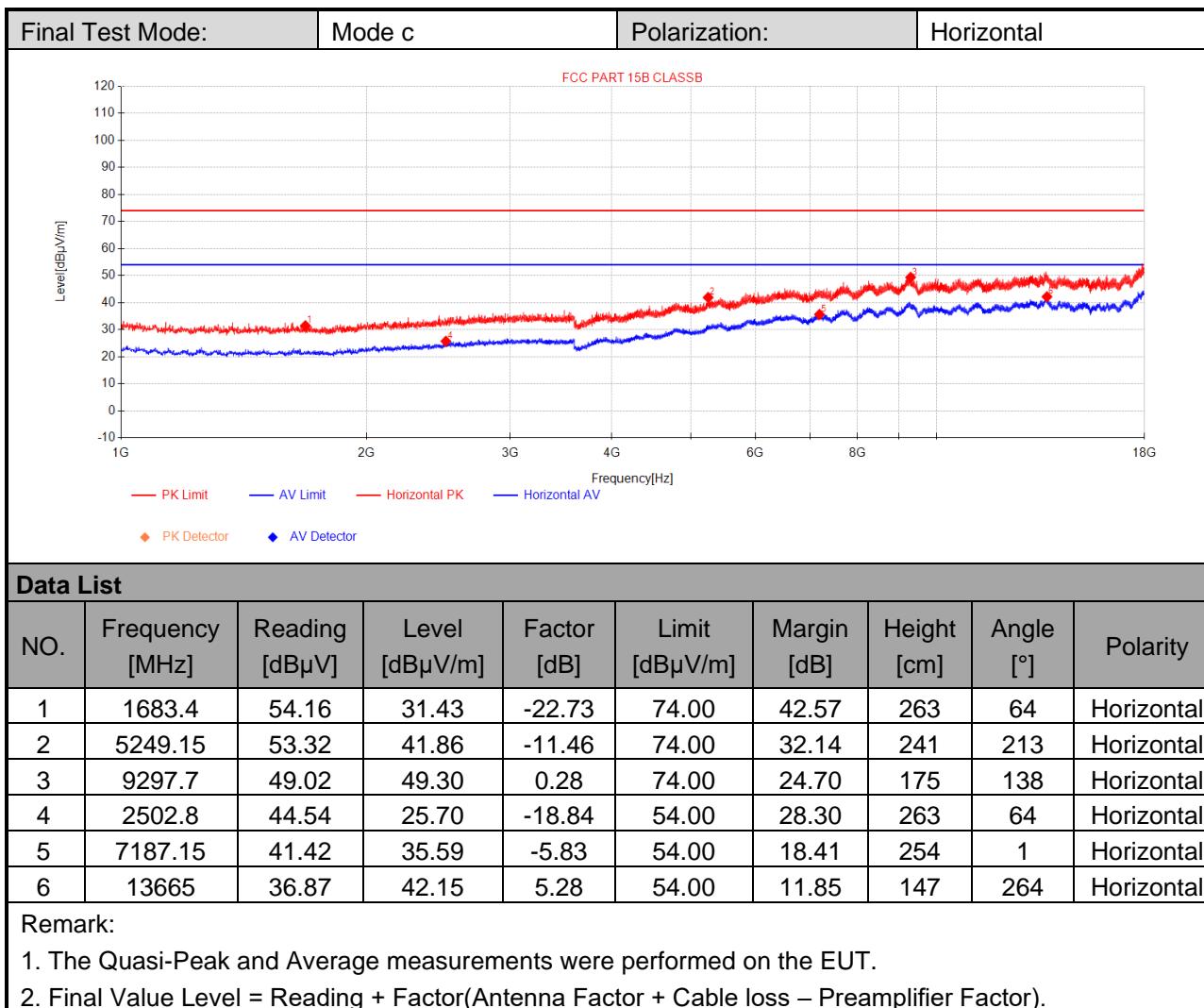
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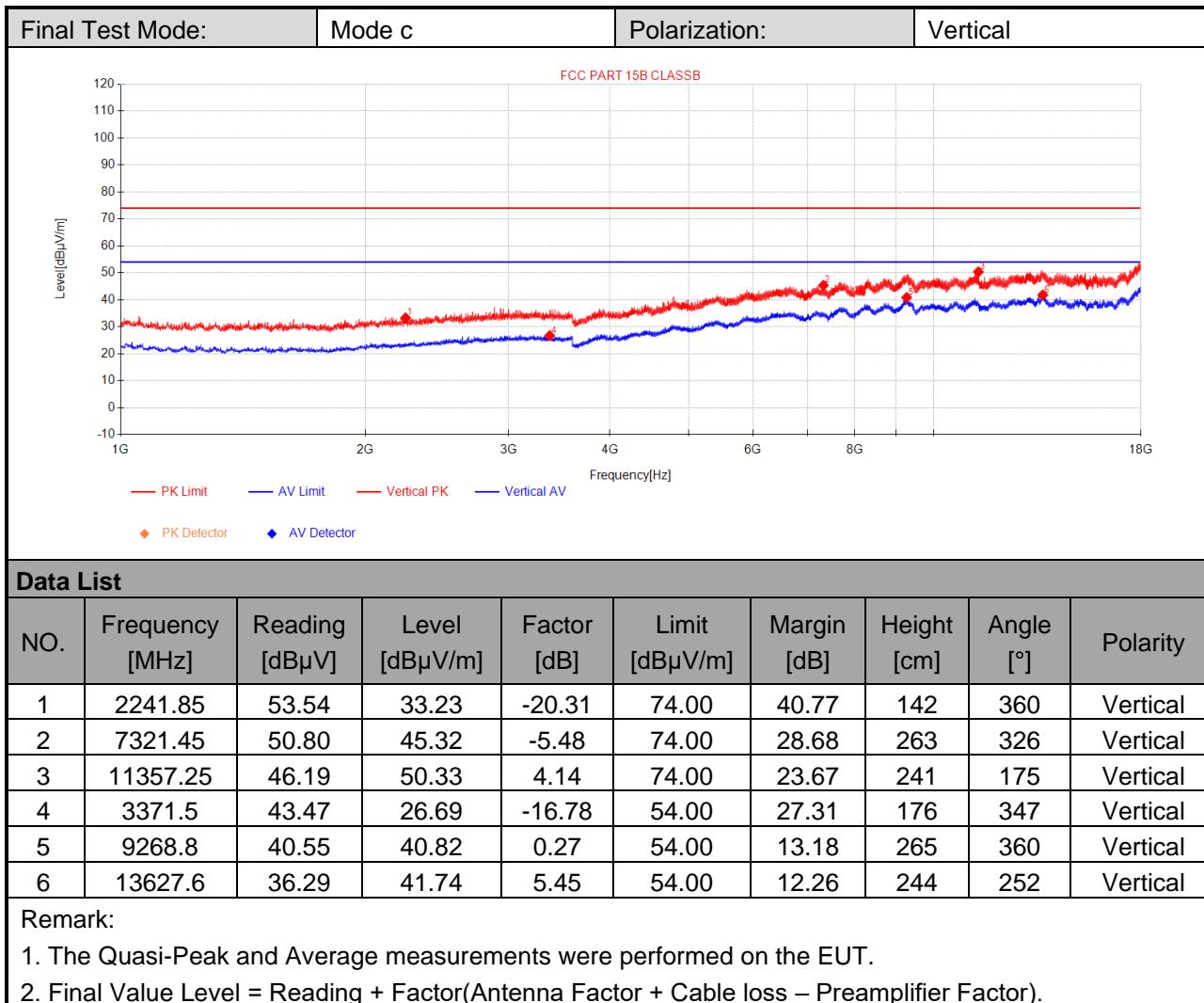
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**Data List**

NO.	Frequency [MHz]	Reading [dB μ V]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2241.85	53.54	33.23	-20.31	74.00	40.77	142	360	Vertical
2	7321.45	50.80	45.32	-5.48	74.00	28.68	263	326	Vertical
3	11357.25	46.19	50.33	4.14	74.00	23.67	241	175	Vertical
4	3371.5	43.47	26.69	-16.78	54.00	27.31	176	347	Vertical
5	9268.8	40.55	40.82	0.27	54.00	13.18	265	360	Vertical
6	13627.6	36.29	41.74	5.45	54.00	12.26	244	252	Vertical

Remark:

1. The Quasi-Peak and Average measurements were performed on the EUT.
2. Final Value Level = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).



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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	SUWI-04-03-01	2021/5/8	2024/5/7
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/3/2	2023/3/1
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/3/2	2023/3/1
Measurement Software	Tonscend	JS32-RE V4.0.0.2	SUWI-02-19-05	NCR	NCR
Radio Communication Analyzer	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27

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RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy-mm-dd)	Cal Due Date (yyyy-mm-dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/15	2023/2/14
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/15	2023/2/14
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Radio Communication Analyzer	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE V4.0.0.0	SUWI-02-09-06	NCR	NCR

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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.90dB (150kHz to 30MHz)
2	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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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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