

Report No.: SEWM2311000466RG07
Rev.: 01
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TEST REPORT

Application No.:	SEWM2311000466RG
Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
EUT Description:	Smart Phone
Model No.:	SN339D
FCC ID:	2A28USN339D
Standard(s):	FCC 47 CFR Part 15, Subpart B
Date of Receipt:	2023/11/17
Date of Test:	2024/01/03 to 2024/01/04
Date of Issue:	2024/01/26
Test Result:	Pass*

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

Authorized Signature:

Well Wei

Wireless Laboratory Manager



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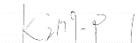
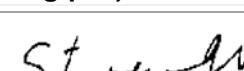
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Wireless Laboratory

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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2024/01/26		Original

Prepared By		 <hr/> <p>(King-p Li) / Test Engineer</p>
Checked By		 <hr/> <p>(Stone Gu) / Reviewer</p>

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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

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1 General Information

Product Name:	Smart Phone		
Model No. (EUT):	SN339D		
Hardware Version:	1.0		
Software Version:	SN339DD10010		
IMEI:	356704760005444		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 12	699~716	729~746
	LTE Band 14	788~798	746~756
	LTE Band 17	704~716	734~746
	LTE Band 26 (814 to 824 MHz)	814~824	859~869
	LTE Band 26 (824 to 849 MHz)	824~849	869~894
	LTE Band 30	2305~2315	2350~2360
	LTE Band 48	3550~3700	3550~3700
	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	1850~1915	1930~1995
	NR Band 26 (814 to 824 MHz)	814~824	859~869
	NR Band 26 (824 to 849 MHz)	824~849	869~894
	NR Band n30	2305~2315	2350~2360
	NR Band n41	2496~2690	2496~2690

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NR Band n48	3550~3700	3550~3700
NR Band n66	1710~1780	2110~2200
NR Band n70	1695~1710	1995~2020
NR Band n71	663~698	617~652
NR Band n77	3450-3550 3700-3980	3450-3550 3700-3980
LTE UL CA: UL CA_2A-12A;UL CA_12A-66A;UL CA_4A-12A;UL CA_2A-5A; UL CA_2A-14A;UL CA_5A-66A NR ENDC: DC_2A_n2A; DC_5A_n2A; DC_12A_n2A; DC_66A_n2A; DC_14A_n2A; DC_30A_n2A;DC_2A_n5A;DC_66A_n5A;DC_30A_n5A;DC_2A_n41A; DC_66A_n41A;DC_2A_n66A;DC_12A_n66A;DC_14A_n66A;DC_30A_n66A; DC_66A_n66A;DC_2A_n71A;DC_66A_n71A;DC_2A_n77A; DC_66A_n77A; DC_25A_n77A;DC_5A_n77A;DC_12A_n77A;DC_14A_n77A; DC_30A_n77A; DC_12A_n25A;DC_66A_n25A;		
Wi-Fi 2.4G	2412~2462	2412~2462
Bluetooth	2402~2480	2402~2480
Wi-Fi 5G	5150~5850	5150~5850
GNSS(Beidou B1i/Galileo E1/Glonass G1/GPS L1C/A L1C/SBAS L1)	/	1559~1610

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Accessory:

Adapter	Model No.	Specification
Power Adapter	UT-681A-5200A1Y	ShenZhen Baijunda Electronic Co.,Ltd



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	Smaivwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01
Computer	Lenovo	T14	SUWI-03-33-04
Earphones	oppo	oppo Earphones	N/A

1.2 Test Location

All tests were performed at:

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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

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

• 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:	101kPa
Pretest these modes to find the worst case:	<p>a: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low</p> <p>b: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid</p> <p>c: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+MP4+LTE Band 5 (RX) High</p> <p>d: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 12 (RX) Low</p> <p>e: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Front)+LTE Band 14 (RX) Mid</p> <p>f: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+LTE Band 17 (RX) High</p> <p>g: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Front)+LTE Band 26 (RX) Low</p> <p>h: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+LTE Band 71 (RX) Mid</p>



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	i: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+Camera(Front)+SA Band 5 (RX) High j: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5G WLAN(Idle)+Camera(Front)+SA Band 26 (RX) Low k: Transfer data between the EUT and the PC+USB cable(EUT1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+SA Band 71(RX)
The worst case for final test:	g: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+Camera(Front)+LTE Band 26 (RX) Low k: Transfer data between the EUT and the PC+USB cable(EUT1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+SA Band 71(RX)



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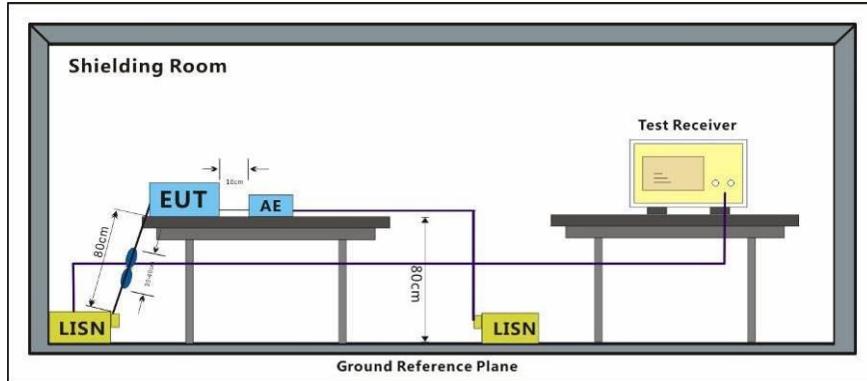
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2.1.2 Test Setup Procedures

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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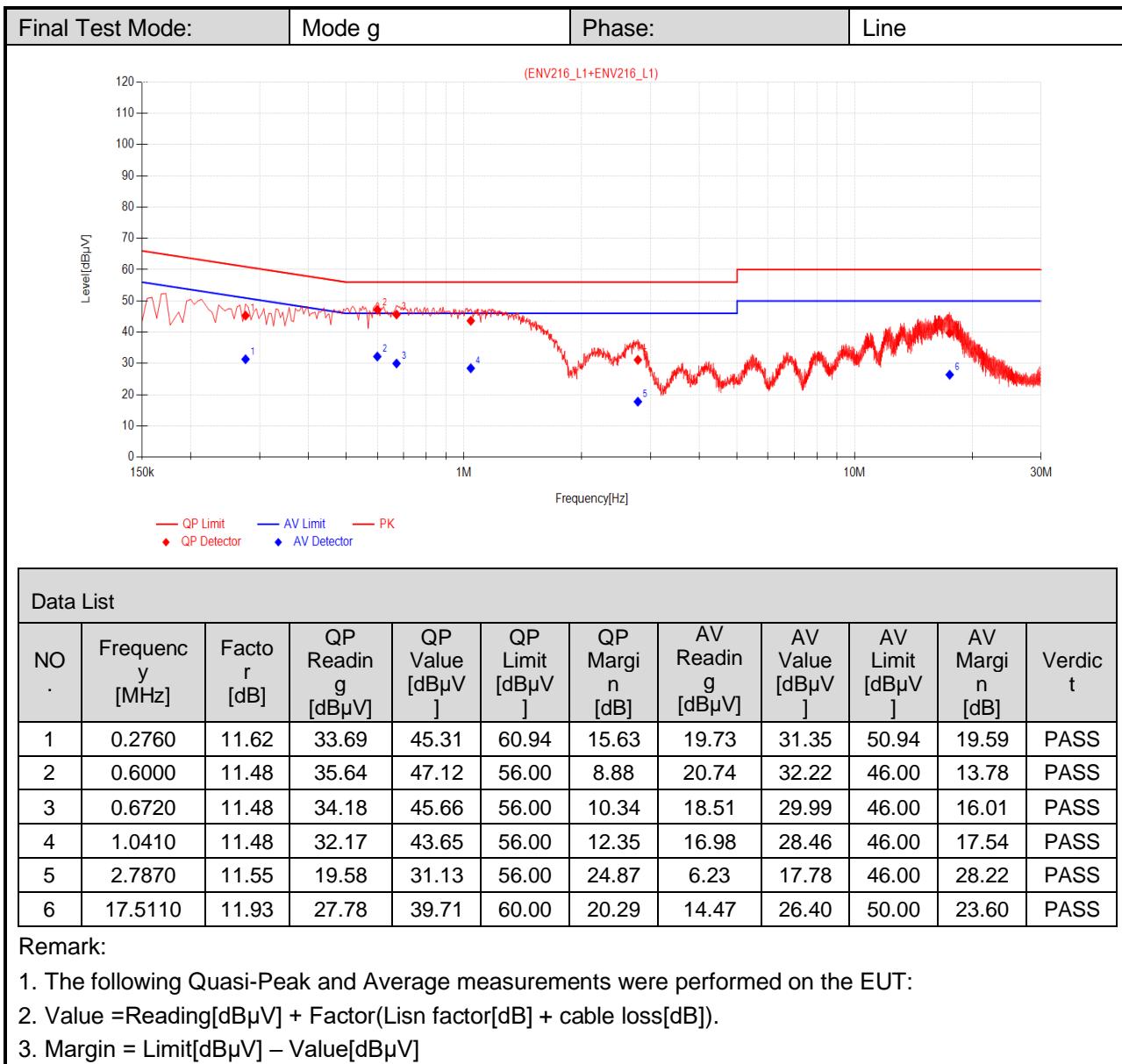
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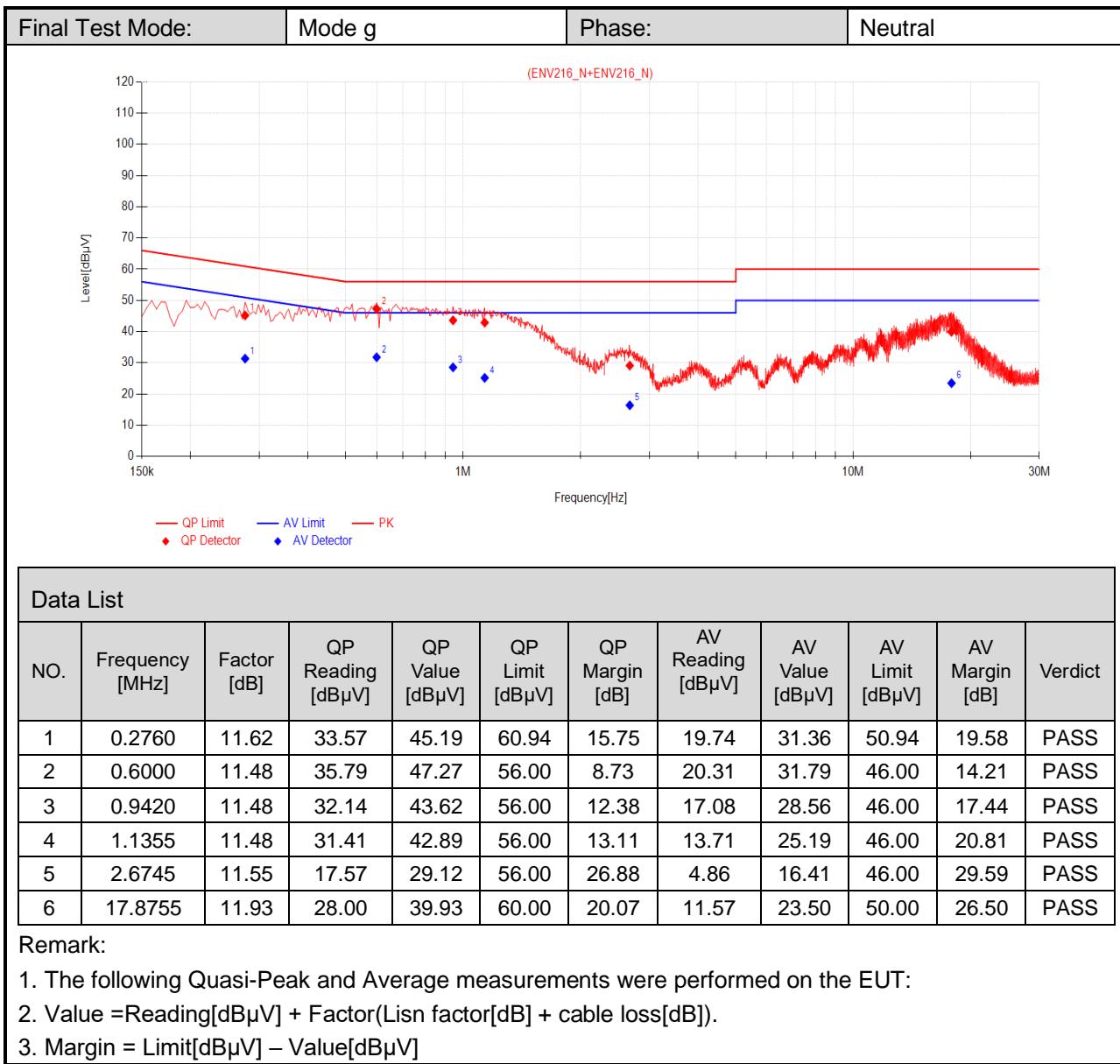
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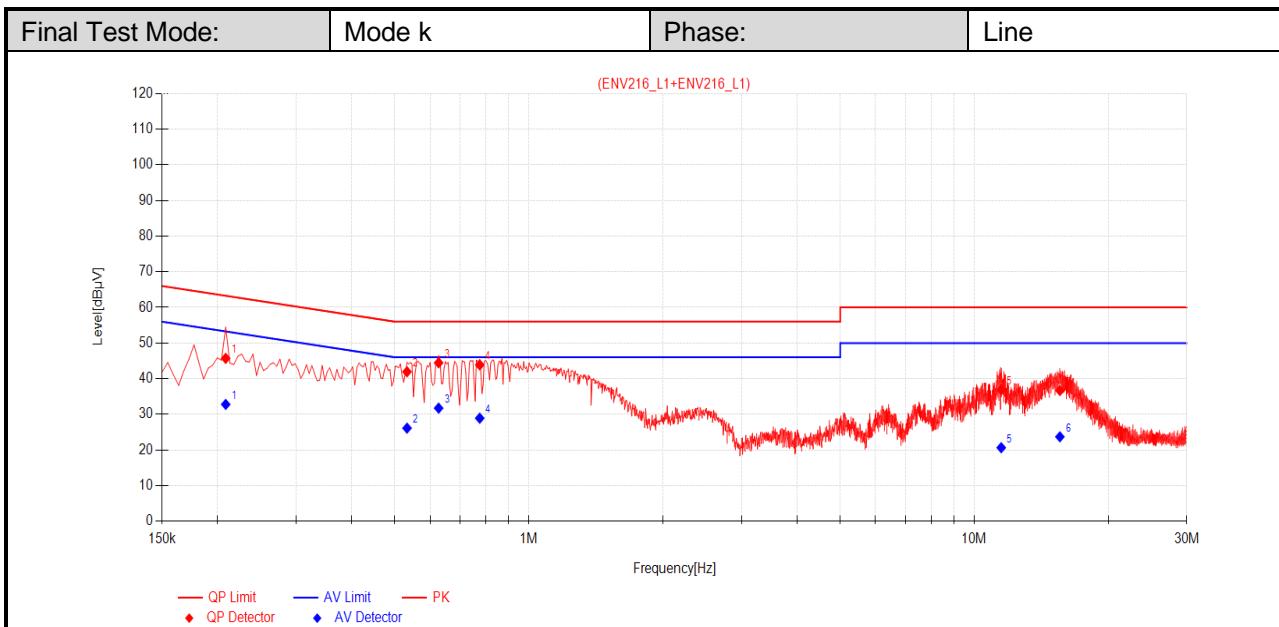
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Data List											
NO .	Frequenc y [MHz]	Facto r [dB]	QP Readin g [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margi n [dB]	AV Readin g [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margi n [dB]	Verdic t
1	0.2085	11.81	33.89	45.70	63.26	17.56	20.99	32.80	53.26	20.46	PASS
2	0.5325	11.50	30.45	41.95	56.00	14.05	14.63	26.13	46.00	19.87	PASS
3	0.6270	11.48	32.98	44.46	56.00	11.54	20.27	31.75	46.00	14.25	PASS
4	0.7755	11.48	32.38	43.86	56.00	12.14	17.44	28.92	46.00	17.08	PASS
5	11.4945	11.76	25.16	36.92	60.00	23.08	8.89	20.65	50.00	29.35	PASS
6	15.5715	11.89	24.80	36.69	60.00	23.31	11.81	23.70	50.00	26.30	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value =Reading[dBμV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBμV] – Value[dBμV]



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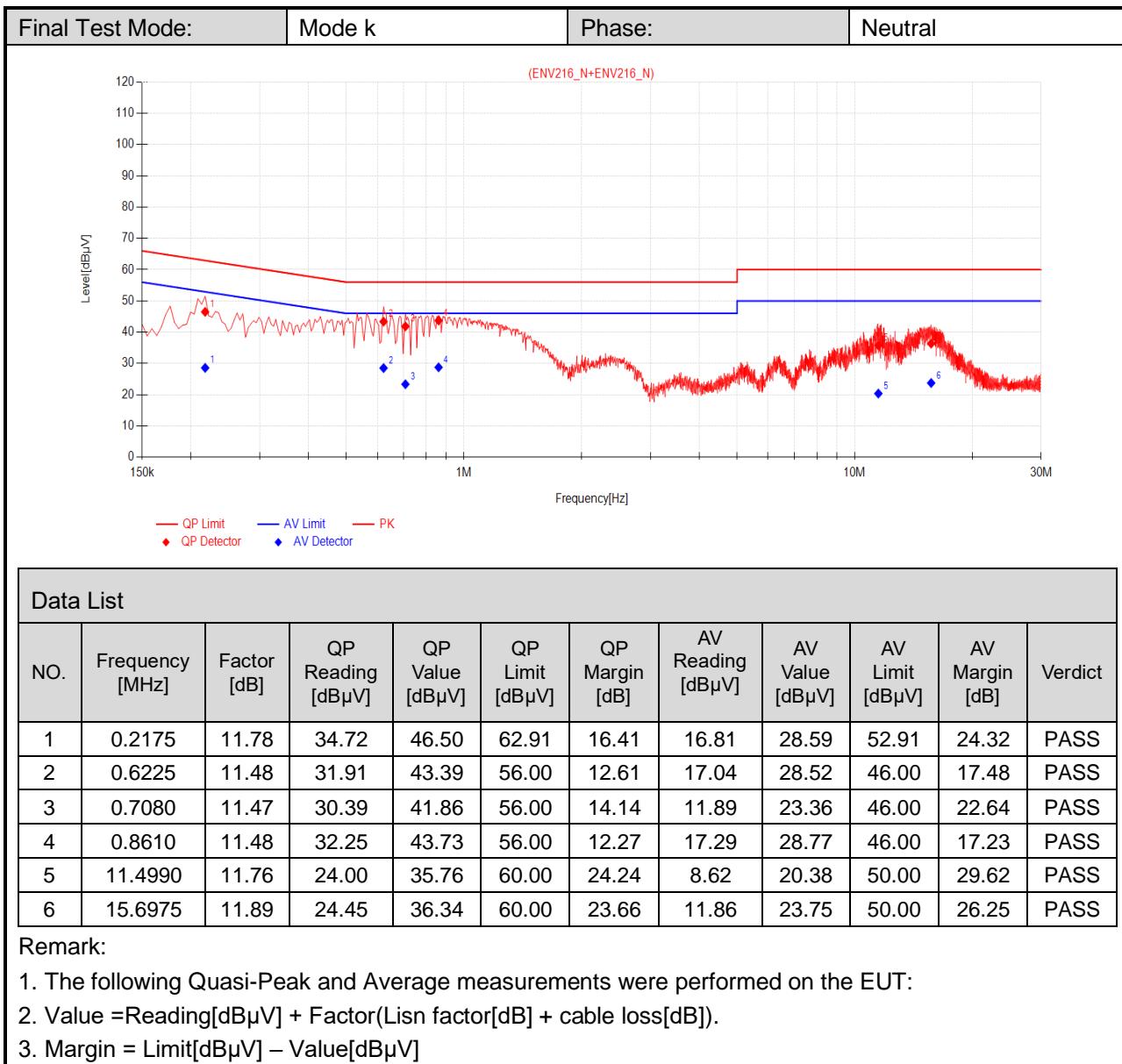
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2.2 Radiated Emissions (30MHz-1GHz)

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:	101kPa
Pretest these modes to find the worst case:	<p>a: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low</p> <p>b: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid</p> <p>c: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+MP4+LTE Band 5 (RX) High</p> <p>d: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 12 (RX) Low</p> <p>e: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Front)+LTE Band 14 (RX) Mid</p> <p>f: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+LTE Band 17 (RX) High</p> <p>g: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Front)+LTE Band 26 (RX) Low</p> <p>h: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+LTE Band 71 (RX) Mid</p> <p>i: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Front)+SA Band 5 (RX) High</p>



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	j: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5G WLAN(Idle)+Camera(Front)+SA Band 26 (RX) Low k: Transfer data between the EUT and the PC+USB cable(EUT1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+SA Band 71(RX)
The worst case for final test:	g: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+Camera(Front)+LTE Band 26 (RX) Low k: Transfer data between the EUT and the PC+USB cable(EUT1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+SA Band 71(RX)

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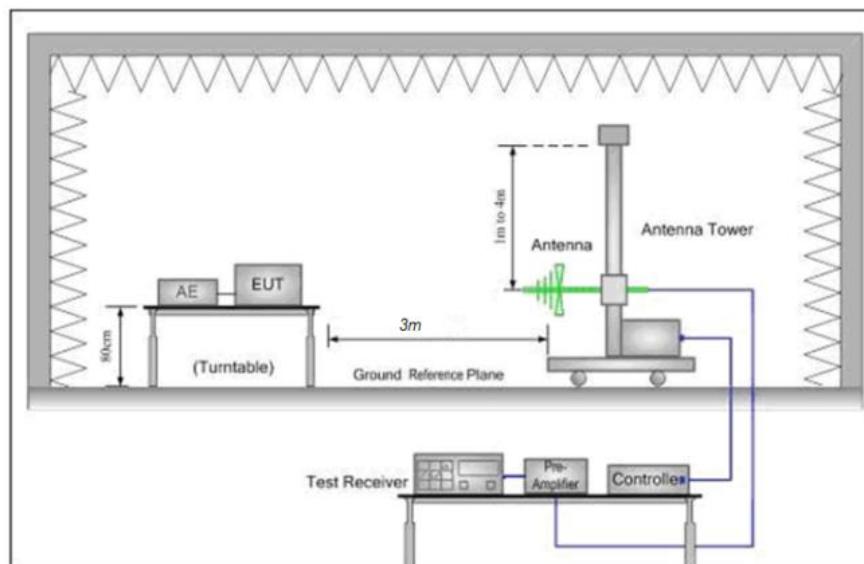
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2.2.2 Test Setup Procedures

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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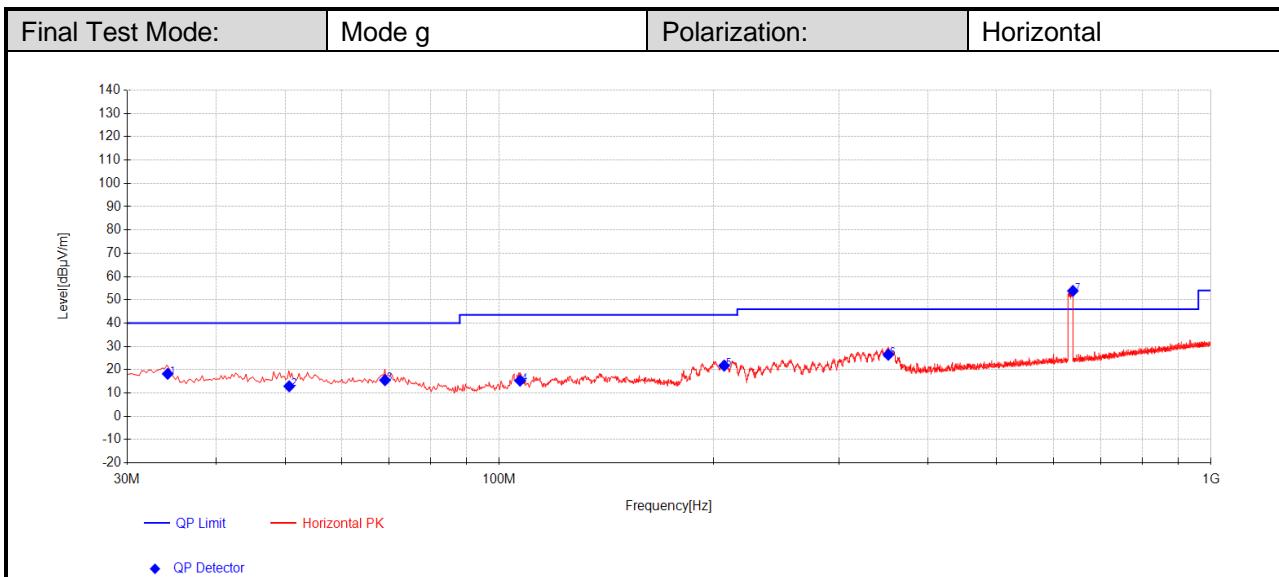
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1	34.2032	33.84	18.39	-34.00	18.23	40.00	21.77	Horizontal
2	50.6751	27.68	19.18	-33.97	12.89	40.00	27.11	Horizontal
3	69.0905	32.02	17.26	-33.75	15.53	40.00	24.47	Horizontal
4	106.9259	32.60	16.14	-33.42	15.32	43.50	28.18	Horizontal
5	206.9980	38.77	15.61	-32.64	21.74	43.50	21.76	Horizontal
6	351.9817	38.28	19.97	-31.83	26.42	46.00	19.58	Horizontal
7	639.645	58.62	25.64	-30.41	53.85	-	-	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.
2. Value = Reading + AF + Factor:
 $AF = \text{Antenna Factor(dB/m)}$
 $Factor = \text{Cable Factor(dB) - Preamplifier (dB)}$
 $Margin = \text{Limit[dB}\mu\text{V/m] - Value[dB}\mu\text{V/m]}$
3. #7 30M-1G is system simulator signal which can be ignored.



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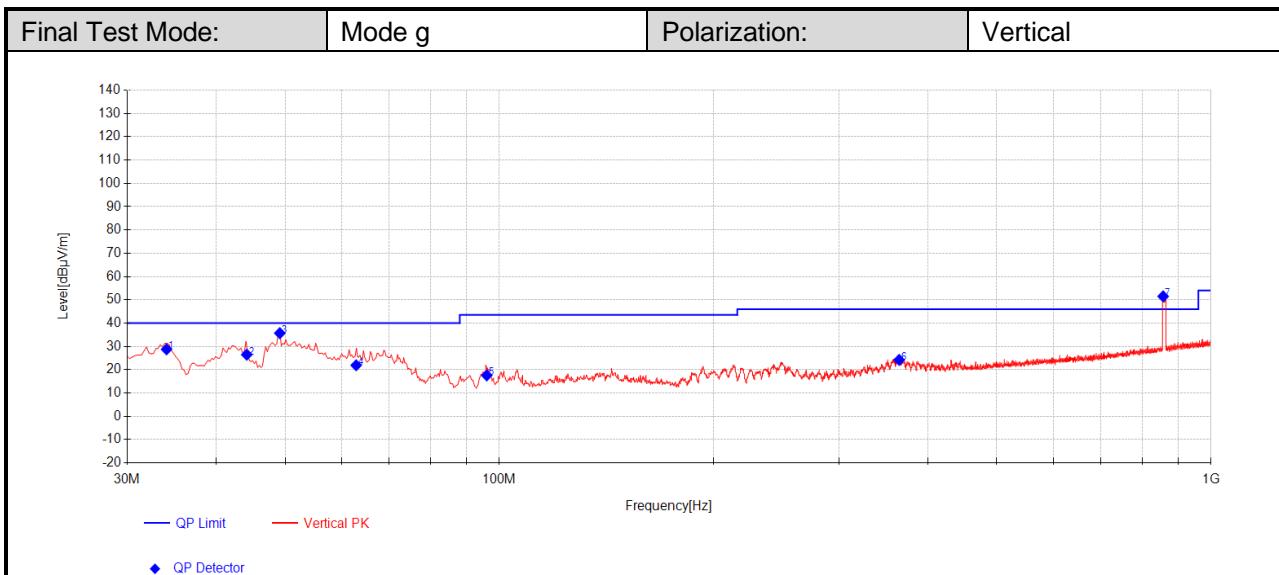
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1	34.0788	44.36	18.39	-34.00	28.75	40.00	11.25	Vertical
2	44.1705	40.96	19.50	-33.99	26.47	40.00	13.53	Vertical
3	49.1699	50.44	19.24	-33.98	35.70	40.00	4.30	Vertical
4	62.9340	37.43	18.29	-33.82	21.90	40.00	18.10	Vertical
5	96.0343	35.91	15.18	-33.52	17.57	43.50	25.93	Vertical
6	364.5867	35.62	20.31	-31.71	24.22	46.00	21.78	Vertical
7	856.44	51.76	29.29	-29.55	51.50	-	-	Vertical

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBμV/m] - Value[dBμV/m]

3. #7 30M-1G is system simulator signal which can be ignored.



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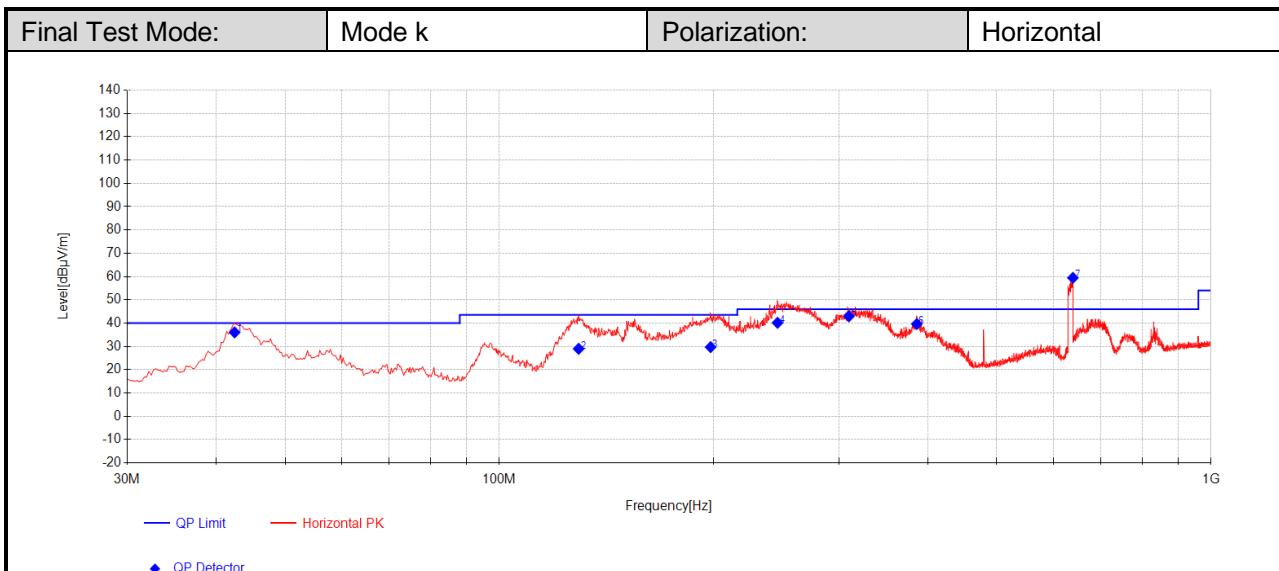
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	42.4711	50.44	19.58	-33.99	36.03	40.00	3.97	Horizontal
2	129.2677	44.36	17.91	-33.29	28.98	43.50	14.52	Horizontal
3	198.0985	47.14	15.31	-32.74	29.71	43.50	13.79	Horizontal
4	246.0088	55.37	17.24	-32.47	40.14	46.00	5.86	Horizontal
5	309.8355	56.26	18.76	-32.08	42.94	46.00	3.06	Horizontal
6	385.99	50.32	20.91	-31.59	39.64	46.00	6.36	Horizontal
7	639.645	64.21	25.64	-30.41	59.44	-	-	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBμV/m] - Value[dBμV/m]

3. #7 30M-1G is system simulator signal which can be ignored.



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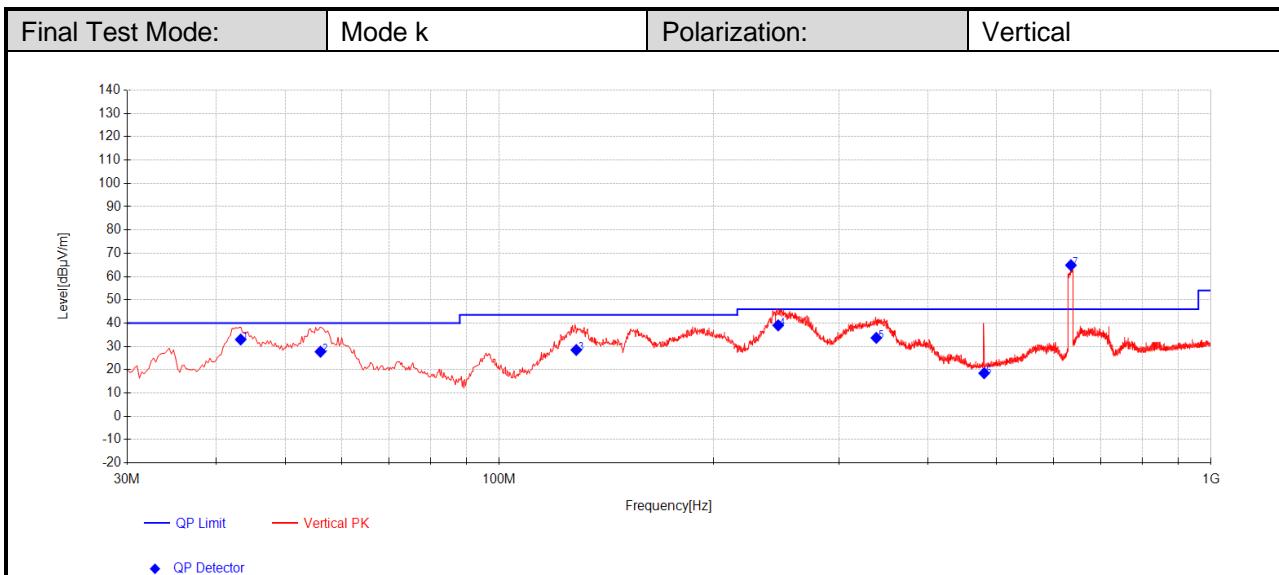
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	43.3174	47.42	19.53	-33.99	32.96	40.00	7.04	Vertical
2	56.0644	42.69	18.95	-33.91	27.73	40.00	12.27	Vertical
3	128.2867	43.97	17.82	-33.30	28.49	43.50	15.01	Vertical
4	246.5144	54.27	17.24	-32.47	39.04	46.00	6.96	Vertical
5	338.6192	46.03	19.58	-31.95	33.66	46.00	12.34	Vertical
6	479.9793	26.73	22.98	-31.20	18.51	46.00	27.49	Vertical
7	635.5225	69.67	25.59	-30.40	64.86	-	-	Vertical

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBμV/m] - Value[dBμV/m]

3. #7 30M-1G is system simulator signal which can be ignored.



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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 54	Peak 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:	101kPa
Pretest these modes to find the worst case:	<p>a: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low</p> <p>b: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid</p> <p>c: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+MP4+LTE Band 5 (RX) High</p> <p>d: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 12 (RX) Low</p> <p>e: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Front)+LTE Band 14 (RX) Mid</p> <p>f: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+LTE Band 17 (RX) High</p> <p>g: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Front)+LTE Band 26 (RX) Low</p> <p>h: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+LTE Band 71 (RX) Mid</p> <p>i: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Front)+SA Band 5 (RX) High</p> <p>j: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+SA Band 26 (RX) Low</p>



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	k: Transfer data between the EUT and the PC+USB cable(EUT1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+SA Band 71(RX)
The worst case for final test:	k: Transfer data between the EUT and the PC+USB cable(EUT1)+BT(Idle)+Earphones+2.4G WLAN(Idle)+SA Band 71(RX)



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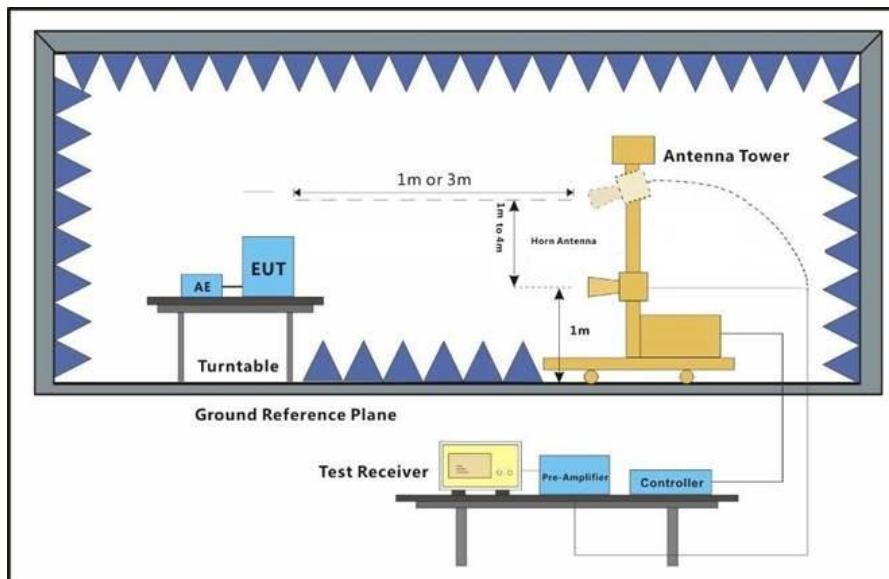
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2.3.2 Test Setup Procedures

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 $20 \times \text{LOG}(3/1) = 9.54 \text{ dB}$.



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 below plots are the highest emissions could be found when testing, so only below points had been displayed.



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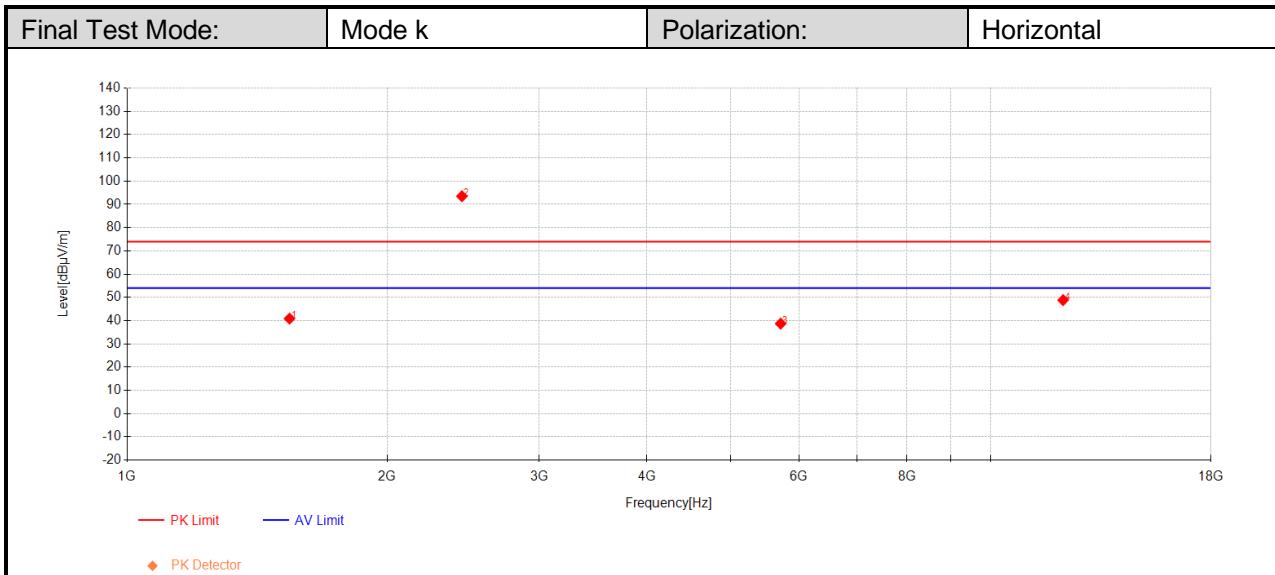
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Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	1542	40.33	24.75	-24.20	40.88	74.00	33.12	Horizontal
2	2441.5	88.56	27.27	-22.33	93.50	-	-	Horizontal
3	5712.5	45.36	33.82	-40.46	38.72	74.00	35.28	Horizontal
4	12132	39.68	38.56	-29.40	48.83	74.00	25.17	Horizontal

Remark:

1. The Peak and Average measurements were performed on the EUT.
2. Level = Reading Level + AF + Factor:

$$AF = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

$$\text{Margin} = \text{Limit[dB μ V/m]} - \text{Level[dB μ V/m]}$$
3. #2 1G-18G is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.



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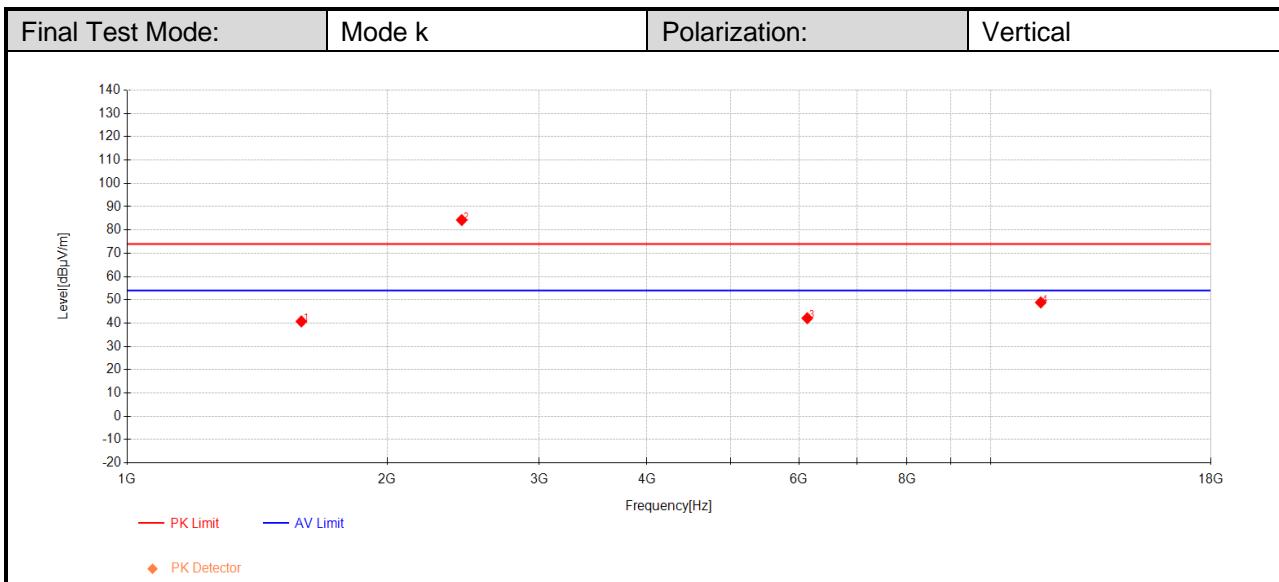
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Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Polarity
1	1591.5	40.10	24.62	-23.99	40.73	74.00	33.27	Vertical
2	2440.5	79.32	27.27	-22.33	84.26	-	-	Vertical
3	6133	46.87	35.07	-39.81	42.12	74.00	31.88	Vertical
4	11430.5	40.74	38.40	-30.25	48.89	74.00	25.11	Vertical

Remark:

1. The Peak and Average measurements were performed on the EUT.
2. Level = Reading Level + AF + Factor:
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit[dB μ V/m] – Level[dB μ V/m]
3. #2 1G-18G is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.



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3 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	2023/09/13	2024/09/12
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/26
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR
Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-03	2023/05/11	2024/05/10



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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	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2023/11/21	2024/11/20
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	2023/09/13	2024/09/12
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR
Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-03	2023/05/11	2024/05/10

Remark: NCR=No Calibration Requirement.



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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)

Remark:
 The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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5 Photographs

5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---



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