

## TEST REPORT

**Application No.:** SZCR2104020698AT  
**Applicant:** Guangdong OPPO Mobile Telecommunications Corp., Ltd.  
**Address of Applicant:** NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China  
**Manufacturer:** Guangdong OPPO Mobile Telecommunications Corp., Ltd.  
**Address of Manufacturer:** NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Mobile Phone  
**Model No.:** CPH2251  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2021-04-23  
**Date of Test:** 2021-05-15 to 2021-05-26  
**Date of Issue:** 2021-05-28

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

*Keny Xu*

Keny Xu  
EMC Laboratory Manager


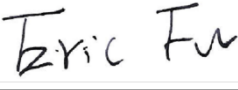


SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-05-28		Original

Authorized for issue by:				
				
		Leo Lai/Project Engineer		
				
		Eric Fu/Reviewer		



## 2 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)		ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)		ANSI C63.4:2014	Class B	Pass



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 7.74V from internal rechargeable battery or from AC/DC adapter
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Item No.	Mode No.	Manufacturer
Adapter 1	VCA7JAUH	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD
Adapter 2	VCA7JDUH	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD
Adapter 3	VCA7HAUH	SHENZHEN HUNTKEY ELECTRIC CO., LTD
Adapter 4	VCA7JBUH	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD
Earphone	MH147	/
USB cable 1	DL129	/
USB cable 2	DL149	For Adapter 4 only
Battery 1(EUT1)	BLP863	SUNWODA Electronic Co., Ltd
Battery 2(EUT2)	BLP863	Dongguan NVT Technology Co., Ltd.

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	L480	PF-1N6C3V
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	$\pm 3.0\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 4.5\text{dB}$
Radiated Emissions (above 1GHz)	$\pm 4.8\text{dB}$

Remark:

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR}}$  (CISPR 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.

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.  
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.5 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



## 5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14



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Indicator					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



## 6 Emission Test Results

### 6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

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

#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

Humidity: 51.6 % RH

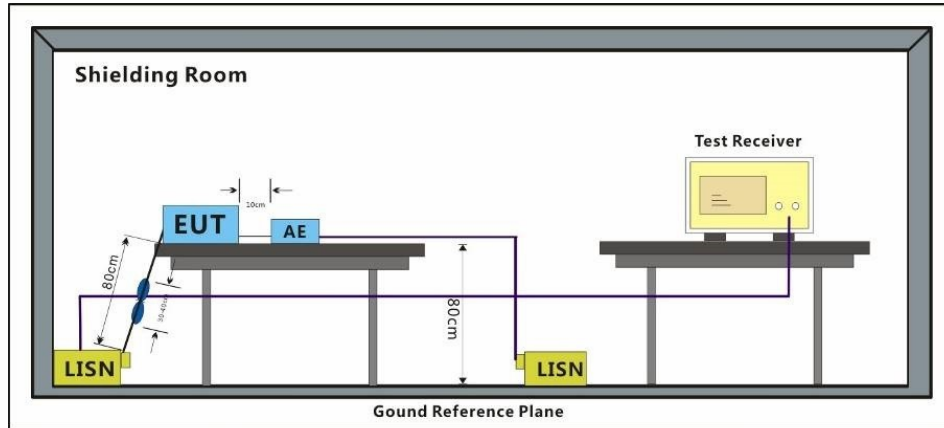
Atmospheric Pressure: 1010 mbar

#### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Transfer data between the EUT1 and the PC+USB cable1
Final test	05	EUT1+Telecom Idle+BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone+USB cable+adapter1
Final test	06	EUT2+Telecom Idle+BT+WLAN+GPS Rx+camera (Front)+earphone+USB cable+adapter2
Final test	07	EUT1+Telecom Idle+BT+WLAN+GPS Rx+camera (Back)+earphone+USB cable+adapter3
Final test	08	EUT1+Telecom Idle+BT+WLAN+GPS Rx+camera (Back)+earphone+USB cable+adapter4
Pre-scan	10	GSM 850 Idle+BT+WLAN +GPS Rx+EUT1+USB Cable+adapter
Pre-scan	11	GSM 850 Idle+BT+WLAN +GPS Rx+EUT2+USB Cable+adapter
Pre-scan	12	WCDMA Band V Idle +BT+WLAN +GPS Rx+EUT1+USB Cable+adapter
Pre-scan	13	LTE Band 5 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter
Pre-scan	14	LTE Band 12 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter
Pre-scan	15	LTE Band 17 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter
Pre-scan	16	LTE Band 26 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter
Pre-scan	17	NR Band 5 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter



### 6.1.3 Test Setup Diagram



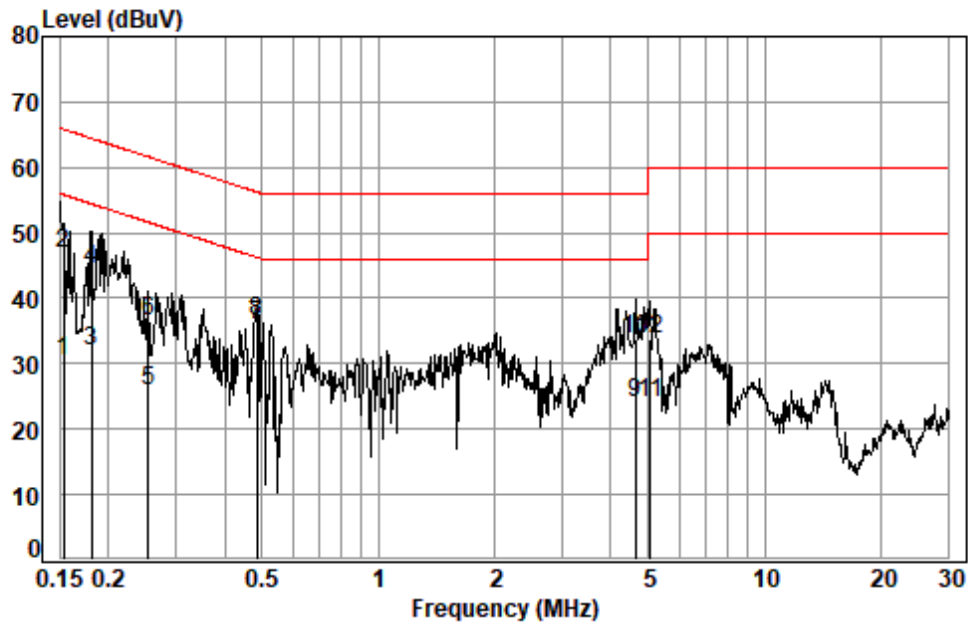
### 6.1.4 Measurement Procedure and Data

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.

Remark: Level= Read Level+ Cable Loss+ LISN Factor



Test Mode: 04; Line: Live line

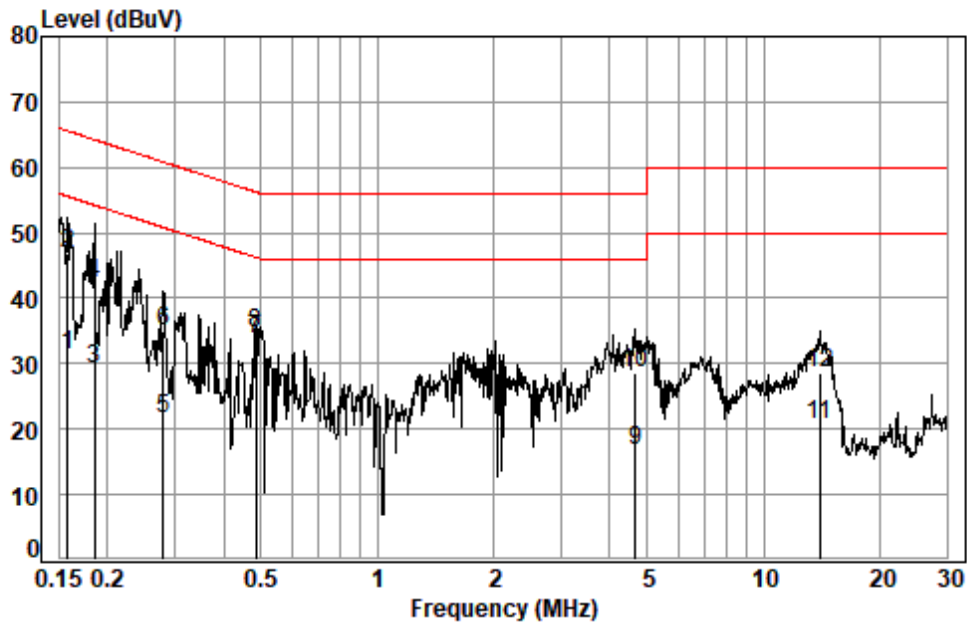


Site : Shielding Room  
Condition: Line  
Job No. : 20698AT  
Test mode: 04

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1532	0.03	9.62	20.83	30.48	55.82	-25.34	Average
2	0.1532	0.03	9.62	37.17	46.82	65.82	-19.00	QP
3	0.1806	0.03	9.63	22.39	32.05	54.46	-22.41	Average
4	0.1806	0.03	9.63	34.67	44.33	64.46	-20.13	QP
5	0.2535	0.05	9.65	16.05	25.75	51.64	-25.89	Average
6	0.2535	0.05	9.65	26.86	36.56	61.64	-25.08	QP
7	0.4863	0.07	9.69	26.03	35.79	46.23	-10.44	Average
8	0.4863	0.07	9.69	26.84	36.60	56.23	-19.63	QP
9	4.6223	0.16	9.76	14.18	24.10	46.00	-21.90	Average
10	4.6223	0.16	9.76	23.83	33.75	56.00	-22.25	QP
11	5.0580	0.16	9.77	14.07	24.00	50.00	-26.00	Average
12	5.0580	0.16	9.77	23.80	33.73	60.00	-26.27	QP



Test Mode: 04; Line: Neutral Line

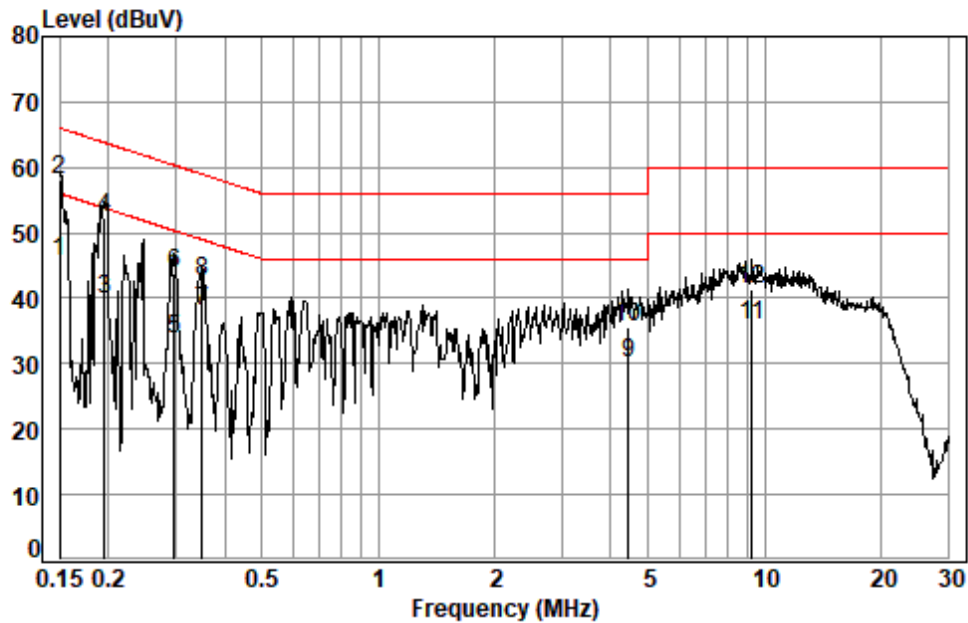


Site : Shielding Room  
Condition: Neutral  
Job No. : 20698AT  
Test mode: 04

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1582	0.03	9.62	21.72	31.37	55.56	-24.19	Average
2	0.1582	0.03	9.62	37.13	46.78	65.56	-18.78	QP
3	0.1854	0.03	9.63	19.45	29.11	54.24	-25.13	Average
4	0.1854	0.03	9.63	32.59	42.25	64.24	-21.99	QP
5	0.2788	0.05	9.65	11.81	21.51	50.85	-29.34	Average
6	0.2788	0.05	9.65	25.24	34.94	60.85	-25.91	QP
7	0.4837	0.07	9.67	24.02	33.76	46.27	-12.51	Average
8	0.4837	0.07	9.67	24.84	34.58	56.27	-21.69	QP
9	4.6469	0.16	9.75	6.71	16.62	46.00	-29.38	Average
10	4.6469	0.16	9.75	18.58	28.49	56.00	-27.51	QP
11	13.9886	0.16	9.99	10.47	20.62	50.00	-29.38	Average
12	13.9886	0.16	9.99	18.45	28.60	60.00	-31.40	QP



Test Mode: 05; Line: Live line

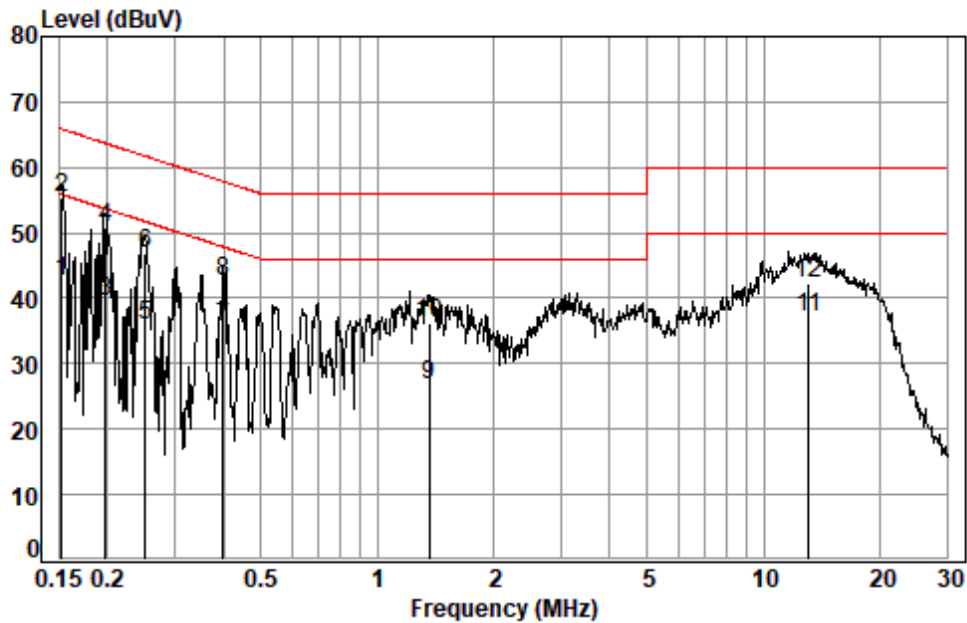


Site : Shielding Room  
Condition: Line  
Job No. : 20698AT  
Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1501	0.03	9.62	36.13	45.78	55.99	-10.21	Average
2	0.1501	0.03	9.62	48.58	58.23	65.99	-7.76	QP
3	0.1955	0.04	9.64	30.14	39.82	53.80	-13.98	Average
4	0.1955	0.04	9.64	42.76	52.44	63.80	-11.36	QP
5	0.2955	0.05	9.66	24.15	33.86	50.37	-16.51	Average
6	0.2955	0.05	9.66	34.14	43.85	60.37	-16.52	QP
7	0.3502	0.06	9.67	28.26	37.99	48.96	-10.97	Average
8	0.3502	0.06	9.67	32.86	42.59	58.96	-16.37	QP
9	4.4305	0.16	9.75	20.25	30.16	46.00	-15.84	Average
10	4.4305	0.16	9.75	25.76	35.67	56.00	-20.33	QP
11	9.2532	0.16	9.92	25.96	36.04	50.00	-13.96	Average
12	9.2532	0.16	9.92	31.15	41.23	60.00	-18.77	QP



Test Mode: 05; Line: Neutral Line

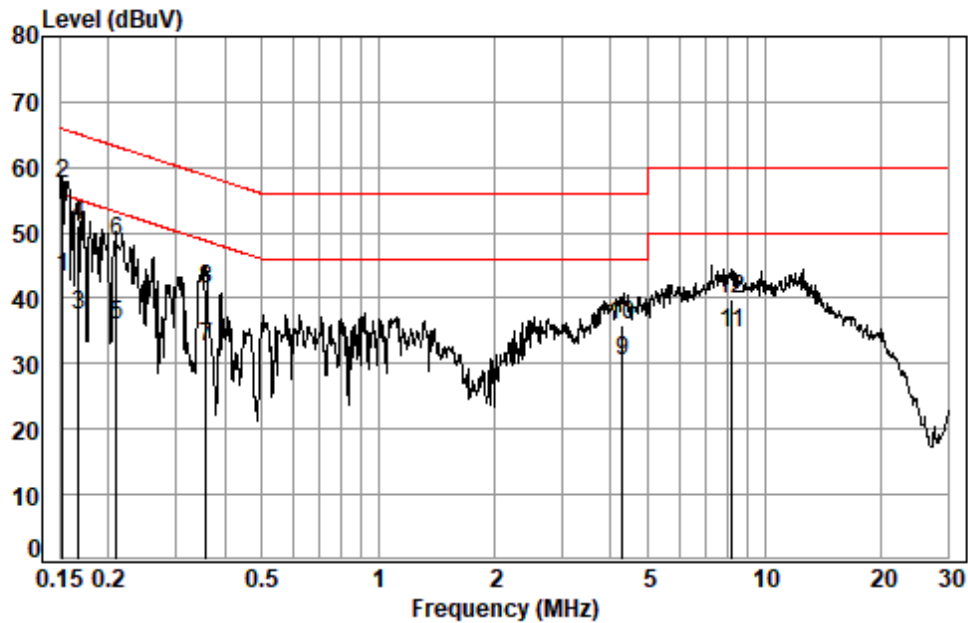


Site : Shielding Room  
Condition: Neutral  
Job No. : 20698AT  
Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.03	9.62	32.89	42.54	55.87	-13.33	Average
2	0.1524	0.03	9.62	45.76	55.41	65.87	-10.46	QP
3	0.1976	0.04	9.63	29.77	39.44	53.71	-14.27	Average
4	0.1976	0.04	9.63	40.98	50.65	63.71	-13.06	QP
5	0.2508	0.05	9.65	26.06	35.76	51.73	-15.97	Average
6	0.2508	0.05	9.65	37.16	46.86	61.73	-14.87	QP
7	0.3997	0.06	9.66	25.88	35.60	47.86	-12.26	Average
8	0.3997	0.06	9.66	32.81	42.53	57.86	-15.33	QP
9	1.3665	0.11	9.67	17.05	26.83	46.00	-19.17	Average
10	1.3665	0.11	9.67	26.53	36.31	56.00	-19.69	QP
11	13.0575	0.16	9.99	27.08	37.23	50.00	-12.77	Average
12	13.0575	0.16	9.99	32.22	42.37	60.00	-17.63	QP



Test Mode: 06; Line: Live line

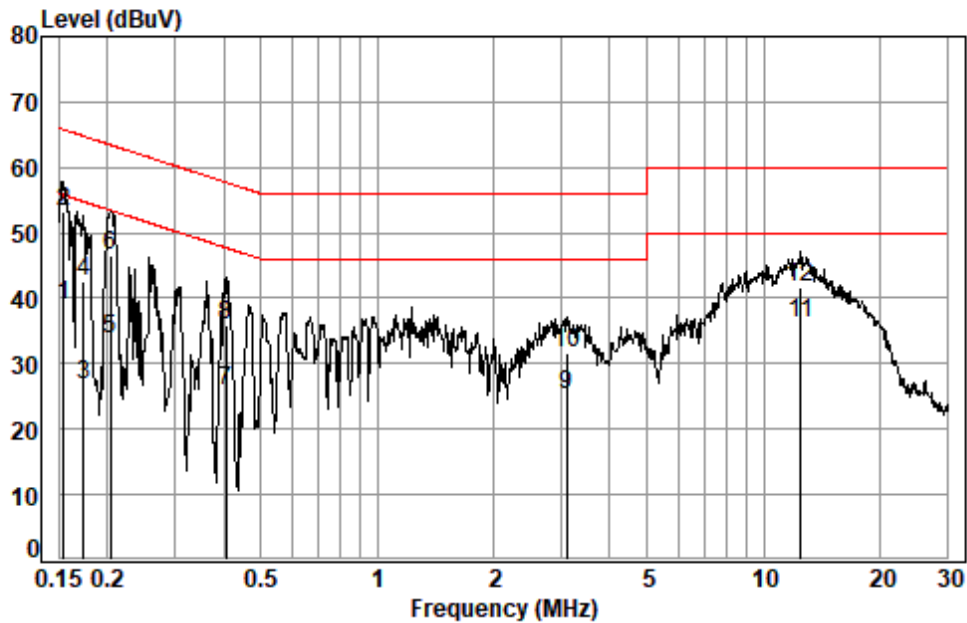


Site : Shielding Room  
Condition: Line  
Job No. : 20698AT  
Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.03	9.62	33.65	43.30	55.87	-12.57	Average
2	0.1524	0.03	9.62	47.88	57.53	65.87	-8.34	QP
3	0.1677	0.03	9.63	27.75	37.41	55.08	-17.67	Average
4	0.1677	0.03	9.63	41.44	51.10	65.08	-13.98	QP
5	0.2094	0.04	9.64	26.14	35.82	53.23	-17.41	Average
6	0.2094	0.04	9.64	39.08	48.76	63.23	-14.47	QP
7	0.3577	0.06	9.67	22.91	32.64	48.78	-16.14	Average
8	0.3577	0.06	9.67	31.77	41.50	58.78	-17.28	QP
9	4.2918	0.15	9.75	20.53	30.43	46.00	-15.57	Average
10	4.2918	0.15	9.75	26.06	35.96	56.00	-20.04	QP
11	8.2351	0.16	9.89	24.70	34.75	50.00	-15.25	Average
12	8.2351	0.16	9.89	29.74	39.79	60.00	-20.21	QP



Test Mode: 06; Line: Neutral Line

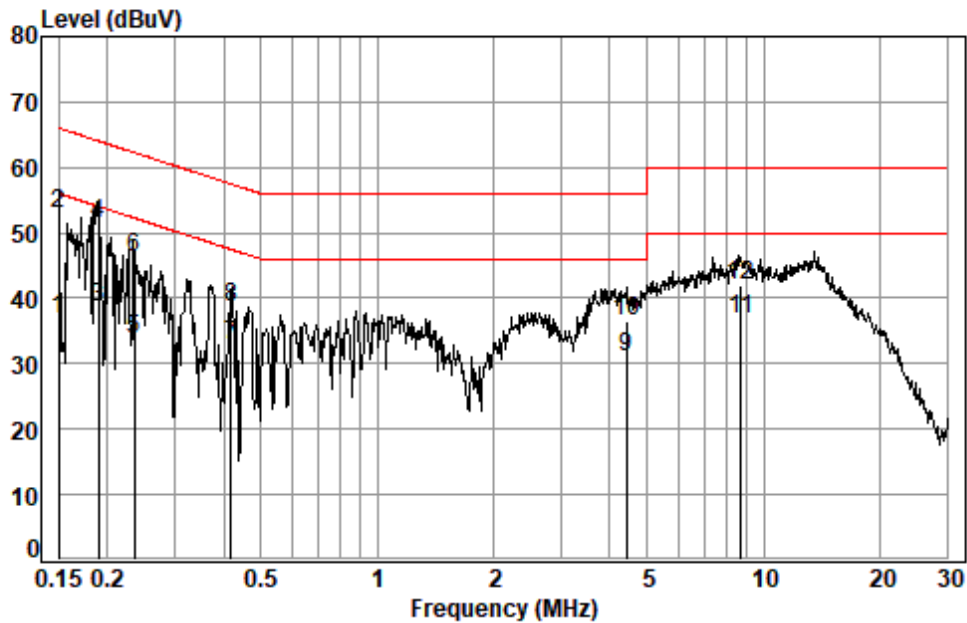


Site : Shielding Room  
Condition: Neutral  
Job No. : 20698AT  
Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1540	0.03	9.62	29.32	38.97	55.78	-16.81	Average
2	0.1540	0.03	9.62	43.46	53.11	65.78	-12.67	QP
3	0.1740	0.03	9.63	17.23	26.89	54.77	-27.88	Average
4	0.1740	0.03	9.63	32.92	42.58	64.77	-22.19	QP
5	0.2040	0.04	9.63	24.22	33.89	53.45	-19.56	Average
6	0.2040	0.04	9.63	36.88	46.55	63.45	-16.90	QP
7	0.4061	0.06	9.66	16.28	26.00	47.73	-21.73	Average
8	0.4061	0.06	9.66	26.04	35.76	57.73	-21.97	QP
9	3.0901	0.14	9.70	15.33	25.17	46.00	-20.83	Average
10	3.0901	0.14	9.70	21.69	31.53	56.00	-24.47	QP
11	12.5156	0.16	9.99	26.13	36.28	50.00	-13.72	Average
12	12.5156	0.16	9.99	31.52	41.67	60.00	-18.33	QP



Test Mode: 07; Line: Live line

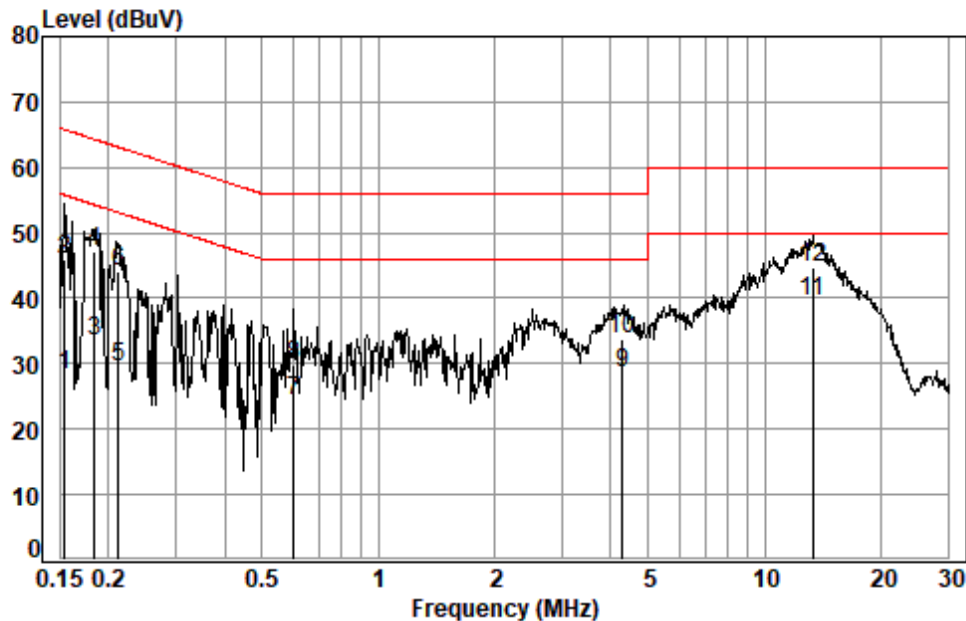


Site : Shielding Room  
Condition: Line  
Job No. : 20698AT  
Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1501	0.03	9.62	27.06	36.71	55.99	-19.28	Average
2	0.1501	0.03	9.62	43.19	52.84	65.99	-13.15	QP
3	0.1894	0.03	9.64	29.01	38.68	54.06	-15.38	Average
4	0.1894	0.03	9.64	41.86	51.53	64.06	-12.53	QP
5	0.2353	0.04	9.65	24.21	33.90	52.26	-18.36	Average
6	0.2353	0.04	9.65	36.58	46.27	62.26	-15.99	QP
7	0.4193	0.07	9.67	23.21	32.95	47.46	-14.51	Average
8	0.4193	0.07	9.67	28.98	38.72	57.46	-18.74	QP
9	4.4071	0.16	9.75	21.11	31.02	46.00	-14.98	Average
10	4.4071	0.16	9.75	26.59	36.50	56.00	-19.50	QP
11	8.7293	0.16	9.90	26.62	36.68	50.00	-13.32	Average
12	8.7293	0.16	9.90	31.83	41.89	60.00	-18.11	QP



Test Mode: 07; Line: Neutral Line

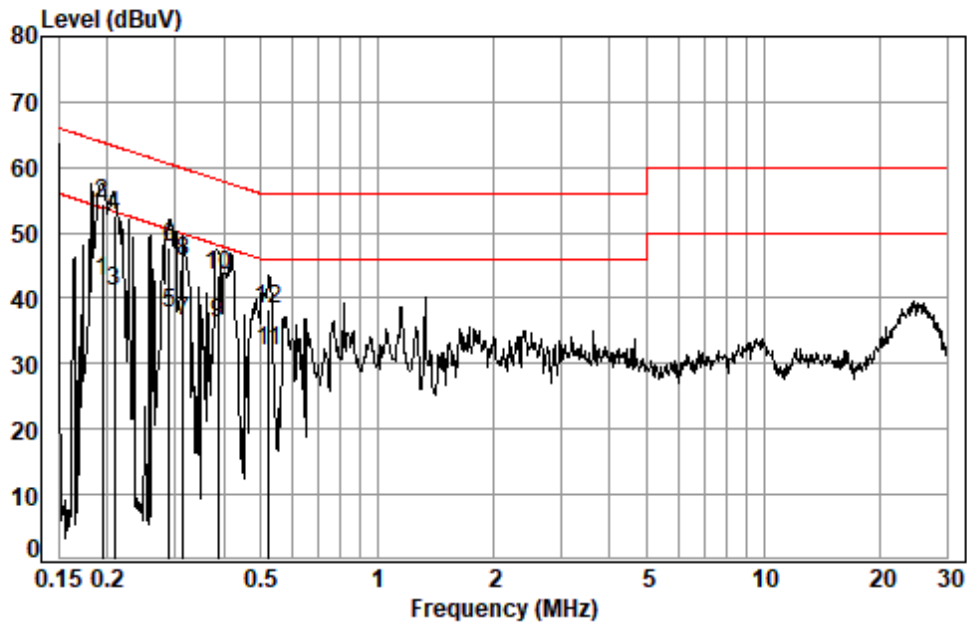


Site : Shielding Room  
Condition: Neutral  
Job No. : 20698AT  
Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1540	0.03	9.62	18.66	28.31	55.78	-27.47	Average
2	0.1540	0.03	9.62	36.39	46.04	65.78	-19.74	QP
3	0.1844	0.03	9.63	23.77	33.43	54.28	-20.85	Average
4	0.1844	0.03	9.63	37.58	47.24	64.28	-17.04	QP
5	0.2128	0.04	9.64	19.90	29.58	53.10	-23.52	Average
6	0.2128	0.04	9.64	34.36	44.04	63.10	-19.06	QP
7	0.6043	0.08	9.67	14.59	24.34	46.00	-21.66	Average
8	0.6043	0.08	9.67	20.17	29.92	56.00	-26.08	QP
9	4.2918	0.15	9.74	18.67	28.56	46.00	-17.44	Average
10	4.2918	0.15	9.74	23.94	33.83	56.00	-22.17	QP
11	13.3372	0.16	9.99	29.29	39.44	50.00	-10.56	Average
12	13.3372	0.16	9.99	34.46	44.61	60.00	-15.39	QP



Test Mode: 08; Line: Live line

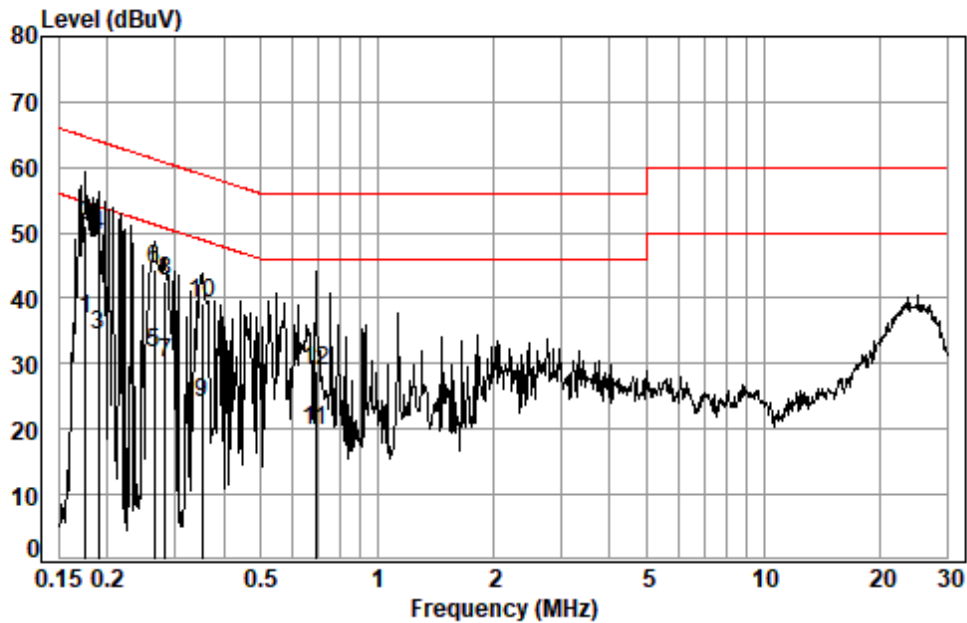


Site : Shielding Room  
Condition: Line  
Job No. : 20698AT  
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1945	0.04	9.64	33.01	42.69	53.84	-11.15	Average
2	0.1945	0.04	9.64	44.78	54.46	63.84	-9.38	QP
3	0.2083	0.04	9.64	31.44	41.12	53.27	-12.15	Average
4	0.2083	0.04	9.64	42.93	52.61	63.27	-10.66	QP
5	0.2893	0.05	9.66	28.00	37.71	50.54	-12.83	Average
6	0.2893	0.05	9.66	37.92	47.63	60.54	-12.91	QP
7	0.3149	0.05	9.66	26.73	36.44	49.84	-13.40	Average
8	0.3149	0.05	9.66	35.88	45.59	59.84	-14.25	QP
9	0.3872	0.06	9.67	26.46	36.19	48.12	-11.93	Average
10	0.3872	0.06	9.67	33.67	43.40	58.12	-14.72	QP
11	0.5238	0.07	9.69	22.28	32.04	46.00	-13.96	Average
12	0.5238	0.07	9.69	28.48	38.24	56.00	-17.76	QP



Test Mode: 08; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 20698AT  
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1758	0.03	9.63	27.04	36.70	54.68	-17.98	Average
2	0.1758	0.03	9.63	41.57	51.23	64.68	-13.45	QP
3	0.1894	0.03	9.63	24.84	34.50	54.06	-19.56	Average
4	0.1894	0.03	9.63	39.95	49.61	64.06	-14.45	QP
5	0.2644	0.05	9.65	21.95	31.65	51.29	-19.64	Average
6	0.2644	0.05	9.65	34.80	44.50	61.29	-16.79	QP
7	0.2818	0.05	9.65	20.29	29.99	50.76	-20.77	Average
8	0.2818	0.05	9.65	33.03	42.73	60.76	-18.03	QP
9	0.3520	0.06	9.66	14.17	23.89	48.91	-25.02	Average
10	0.3520	0.06	9.66	29.57	39.29	58.91	-19.62	QP
11	0.6936	0.09	9.67	10.06	19.82	46.00	-26.18	Average
12	0.6936	0.09	9.67	19.01	28.77	56.00	-27.23	QP



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## 6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

FREQUENCY (MHz)	dBμV/m (At 10m)	dBμV/m (At 3m)
	Class B	Class B
30MHz -88MHz	29.5	40.0
88MHz-216MHz	33.1	43.5
216MHz-960MHz	35.6	46.0
960MHz-1000MHz	43.5	54.0
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz		

### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26.3 °C

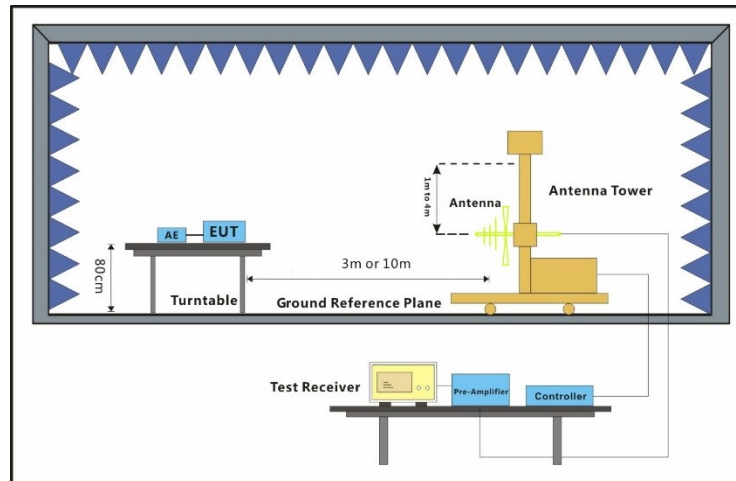
Humidity: 61.8 % RH

Atmospheric Pressure: 1010 mbar

### 6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Transfer data between the EUT1 and the PC+USB cable1
Final test	05	EUT1+Telecom Idle+BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone+USB cable+adapter1
Final test	06	EUT2+Telecom Idle+BT+WLAN+GPS Rx+camera (Front)+earphone+USB cable+adapter2
Final test	07	EUT1+Telecom Idle+BT+WLAN+GPS Rx+camera (Back)+earphone+USB cable+adapter3
Pre-scan	08	EUT1+Telecom Idle+BT+WLAN+GPS Rx+camera (Back)+earphone+USB cable+adapter4
Pre-scan	09	Transfer data between the EUT2 and the PC+USB cable2
Pre-scan	10	GSM 850 Idle+BT+WLAN +GPS Rx+EUT1+USB Cable+adapter
Pre-scan	11	GSM 850 Idle+BT+WLAN +GPS Rx+EUT2+USB Cable+adapter
Pre-scan	12	WCDMA Band V Idle +BT+WLAN +GPS Rx+EUT1+USB Cable+adapter
Pre-scan	13	LTE Band 5 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter
Pre-scan	14	LTE Band 12 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter
Pre-scan	15	LTE Band 17 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter
Pre-scan	16	LTE Band 26 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter
Pre-scan	17	NR Band 5 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter

### 6.2.3 Test Setup Diagram



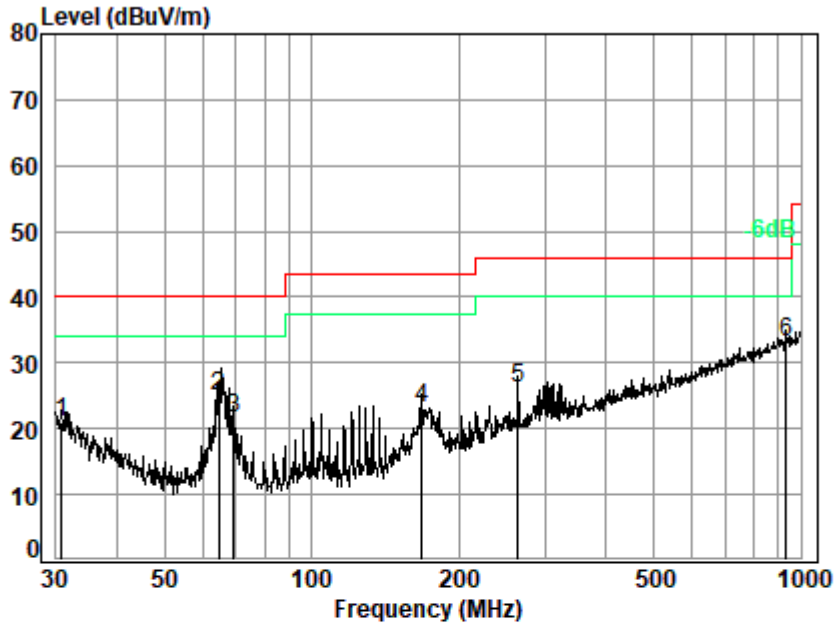
### 6.2.4 Measurement Procedure and Data

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.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Test Mode: 04; Polarity: Horizontal

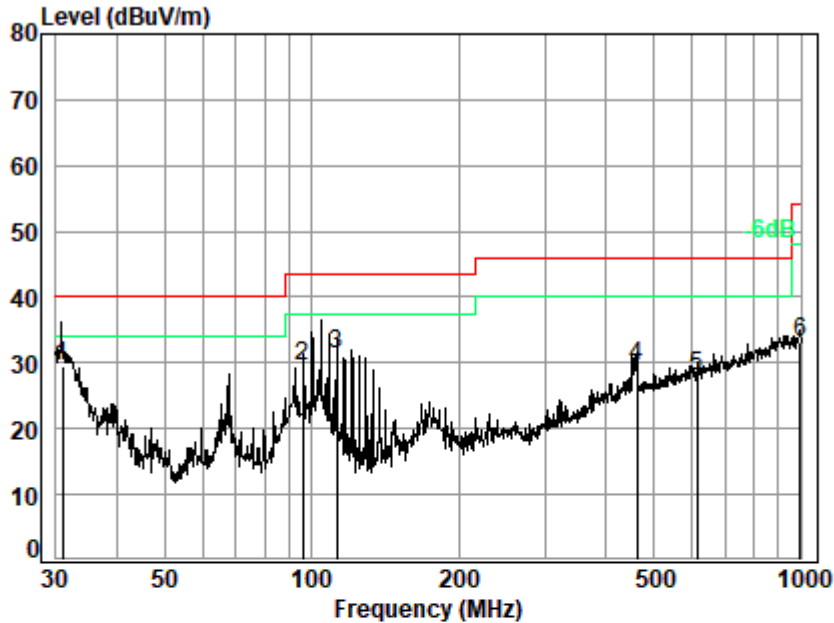


Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 20698AT  
Test mode: 04

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.85	22.35	0.61	27.73	25.69	20.92	40.00	-19.08 QP
2	64.43	12.72	0.80	27.66	39.11	24.97	40.00	-15.03 QP
3	69.11	12.66	0.80	27.65	35.66	21.47	40.00	-18.53 QP
4	167.82	15.56	1.17	27.26	33.68	23.15	43.50	-20.35 QP
5	263.82	18.29	1.75	26.96	32.95	26.03	46.00	-19.97 QP
6 q	932.27	29.20	3.53	27.00	27.31	33.04	46.00	-12.96 QP



Test Mode: 04; Polarity: Vertical

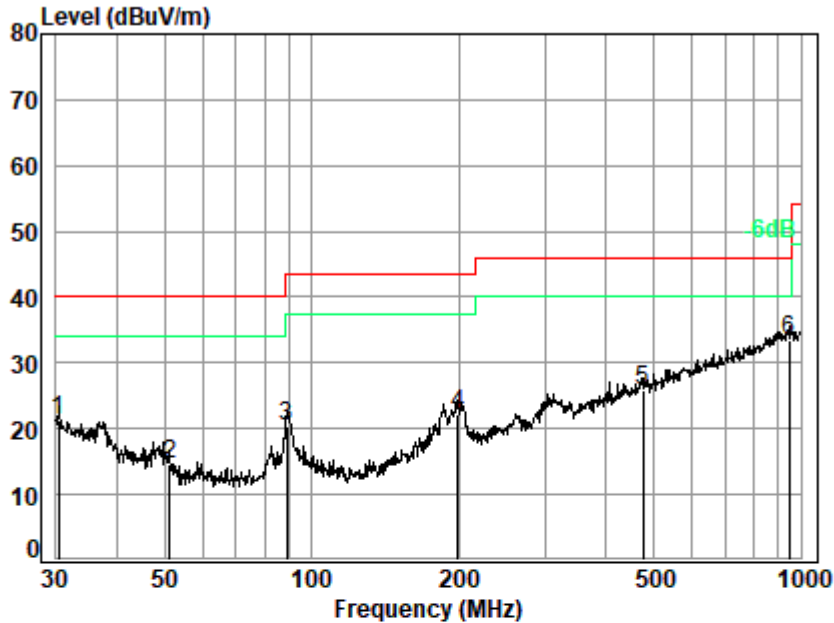


Site : chamber  
Condition: 3m VERTICAL  
Job No. : 20698AT  
Test mode: 04

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	30.96	22.27	0.61	27.73	34.45	29.60	40.00	-10.40 QP
2		96.10	13.80	1.18	27.61	42.09	29.46	43.50	-14.04 QP
3		112.52	13.52	1.12	27.53	44.23	31.34	43.50	-12.16 QP
4		462.35	23.07	2.43	27.66	31.80	29.64	46.00	-16.36 QP
5		614.21	26.47	2.73	28.10	26.89	27.99	46.00	-18.01 QP
6		996.50	29.75	3.60	26.68	26.39	33.06	54.00	-20.94 QP



Test Mode: 05; Polarity: Horizontal

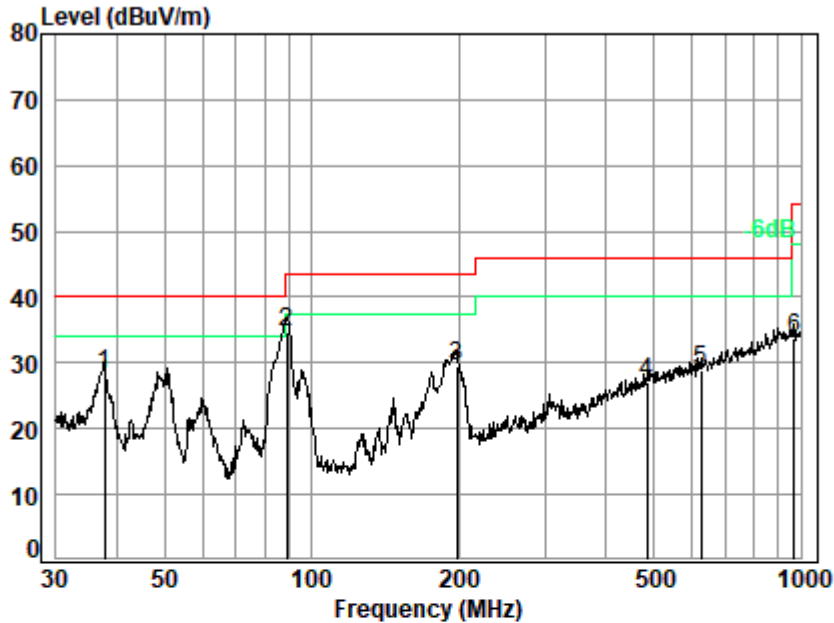


Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 20698AT  
Test mode: 05

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.42	22.67	0.60	27.73	25.76	21.30	40.00	-18.70 QP
2	51.12	13.76	0.71	27.68	27.93	14.72	40.00	-25.28 QP
3	88.96	13.00	1.29	27.62	33.84	20.51	43.50	-22.99 QP
4	198.59	15.76	1.20	27.15	32.42	22.23	43.50	-21.27 QP
5	475.50	23.99	2.45	27.71	26.98	25.71	46.00	-20.29 QP
6 q	945.44	29.28	3.55	26.93	27.62	33.52	46.00	-12.48 QP



Test Mode: 05; Polarity: Vertical

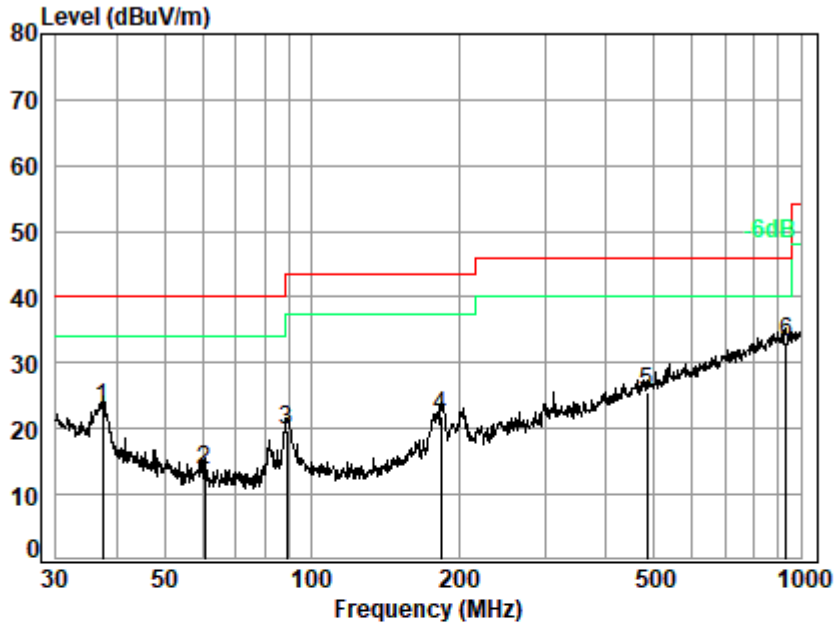


Site : chamber  
Condition: 3m VERTICAL  
Job No. : 20698AT  
Test mode: 05

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	37.68	19.28	0.68	27.71	36.12	28.37	40.00	-11.63	QP
2 q	88.96	13.00	1.29	27.62	48.13	34.80	43.50	-8.70	QP
3	197.89	15.74	1.20	27.15	39.82	29.61	43.50	-13.89	QP
4	483.91	24.30	2.47	27.74	27.92	26.95	46.00	-19.05	QP
5	625.08	26.60	2.75	28.07	27.49	28.77	46.00	-17.23	QP
6	968.93	29.50	3.57	26.81	27.56	33.82	54.00	-20.18	QP



Test Mode: 06; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

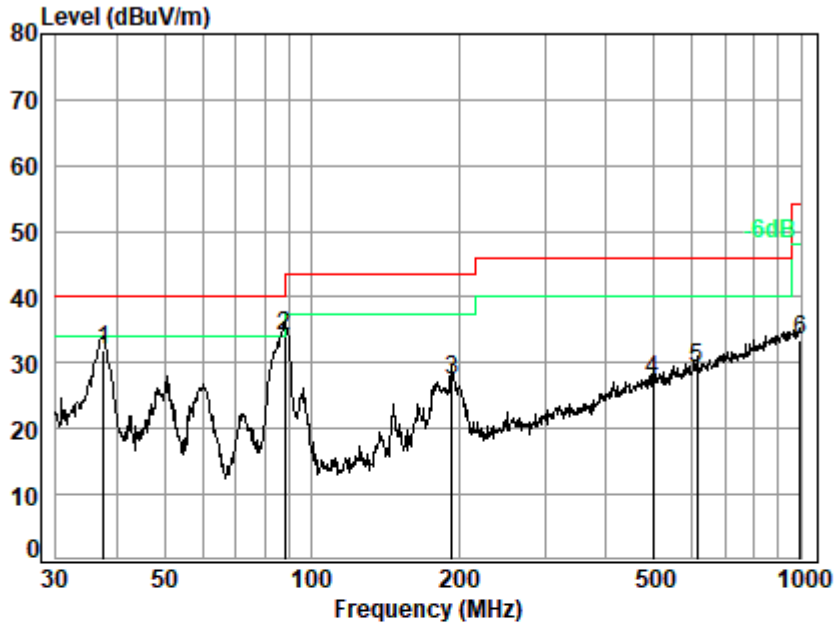
Job No. : 20698AT

Test mode: 06

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	37.42	19.34	0.68	27.71	30.72	23.03	40.00	-16.97 QP
2	60.49	12.85	0.80	27.66	27.61	13.60	40.00	-26.40 QP
3	88.96	13.00	1.29	27.62	33.05	19.72	43.50	-23.78 QP
4	183.84	15.44	1.19	27.20	32.57	22.00	43.50	-21.50 QP
5	485.61	24.30	2.47	27.75	26.41	25.43	46.00	-20.57 QP
6 q	935.55	29.20	3.54	26.98	27.49	33.25	46.00	-12.75 QP



Test Mode: 06; Polarity: Vertical

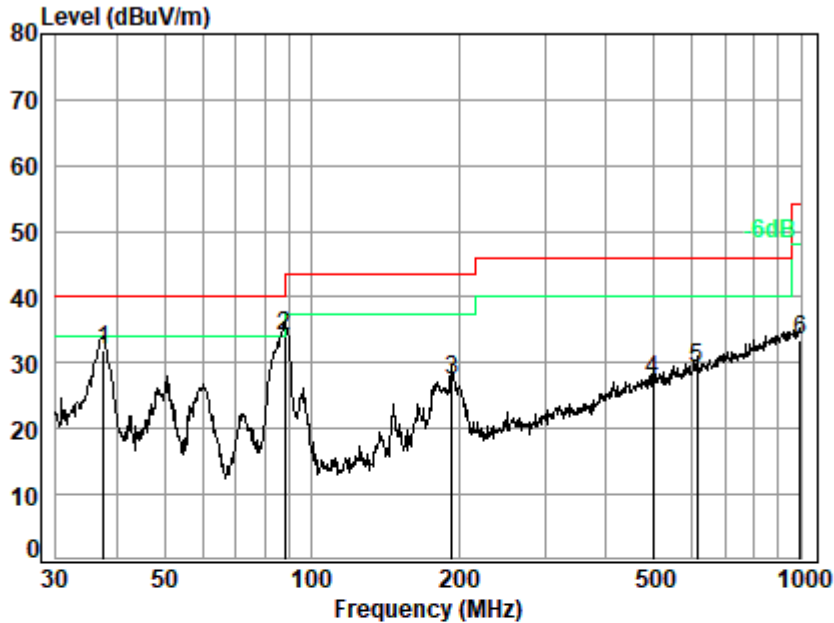


Site : chamber  
Condition: 3m VERTICAL  
Job No. : 20698AT  
Test mode: 06

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	37.55	19.31	0.68	27.71	39.80	32.08	40.00	-7.92 QP
2		88.03	12.90	1.28	27.62	47.64	34.20	43.50	-9.30 QP
3		193.09	15.59	1.19	27.17	37.79	27.40	43.50	-16.10 QP
4		497.68	24.15	2.50	27.79	28.48	27.34	46.00	-18.66 QP
5		614.21	26.47	2.73	28.10	27.97	29.07	46.00	-16.93 QP
6		996.50	29.75	3.60	26.68	26.72	33.39	54.00	-20.61 QP



Test Mode: 07; Polarity: Horizontal

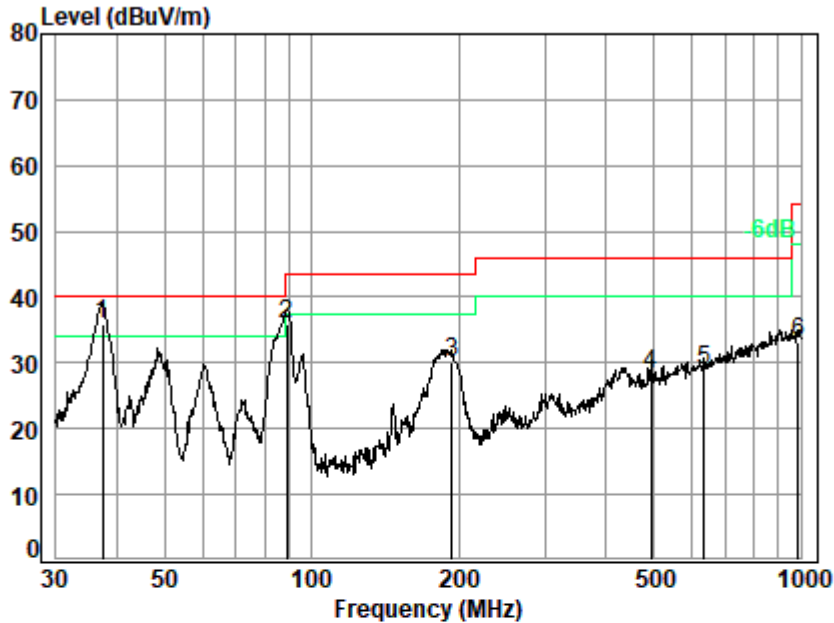


Site : chamber  
Condition: 3m VERTICAL  
Job No. : 20698AT  
Test mode: 06

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	37.55	19.31	0.68	27.71	39.80	32.08	40.00	-7.92 QP
2		88.03	12.90	1.28	27.62	47.64	34.20	43.50	-9.30 QP
3		193.09	15.59	1.19	27.17	37.79	27.40	43.50	-16.10 QP
4		497.68	24.15	2.50	27.79	28.48	27.34	46.00	-18.66 QP
5		614.21	26.47	2.73	28.10	27.97	29.07	46.00	-16.93 QP
6		996.50	29.75	3.60	26.68	26.72	33.39	54.00	-20.61 QP



Test Mode: 07; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 20698AT  
Test mode: 07

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	37.42	19.34	0.68	27.71	43.63	35.94	40.00	-4.06 QP
2		88.96	13.00	1.29	27.62	49.33	36.00	43.50	-7.50 QP
3		193.09	15.59	1.19	27.17	40.48	30.09	43.50	-13.41 QP
4		494.20	24.22	2.49	27.78	29.42	28.35	46.00	-17.65 QP
5		633.91	26.38	2.77	28.05	27.71	28.81	46.00	-17.19 QP
6		986.07	29.59	3.59	26.73	26.60	33.05	54.00	-20.95 QP



### 6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average at 3m distance  
83.54(dBμV/m) peak, 63.54(dBμV/m) average at 1m distance

Detector: Peak for pre-scan (1MHz resolution bandwidth) 1GHz to 40GHz

#### 6.3.1 E.U.T. Operation

Operating Environment:

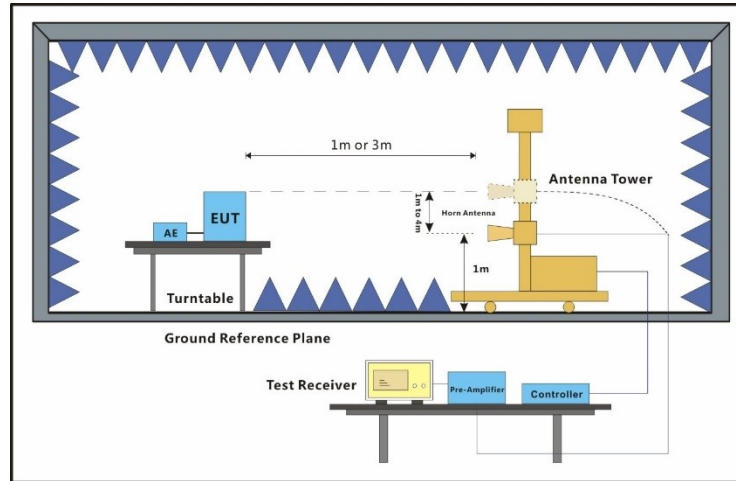
Temperature: 21.4 °C Humidity: 52.6 % RH Atmospheric Pressure: 1010 mbar

#### 6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Transfer data between the EUT1 and the PC+USB cable1
Final test	05	EUT1+Telecom Idle+BT+WLAN+GPS Rx+playing MP4 (SD card)+earphone+USB cable+adapter1
Final test	06	EUT2+Telecom Idle+BT+WLAN+GPS Rx+camera (Front)+earphone+USB cable+adapter2
Final test	07	EUT1+Telecom Idle+BT+WLAN+GPS Rx+camera (Back)+earphone+USB cable+adapter3
Final test	08	EUT1+Telecom Idle+BT+WLAN+GPS Rx+camera (Back)+earphone+USB cable+adapter4
Pre-scan	09	Transfer data between the EUT2 and the PC+USB cable2
Pre-scan	10	GSM 850 Idle+BT+WLAN +GPS Rx+EUT1+USB Cable+adapter
Pre-scan	11	GSM 850 Idle+BT+WLAN +GPS Rx+EUT2+USB Cable+adapter
Pre-scan	12	WCDMA Band V Idle +BT+WLAN +GPS Rx+EUT1+USB Cable+adapter
Pre-scan	13	LTE Band 5 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter
Pre-scan	14	LTE Band 12 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter
Pre-scan	15	LTE Band 17 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter
Pre-scan	16	LTE Band 26 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter
Pre-scan	17	NR Band 5 Idle+BT+WLAN +GPS Rx+EUT1+ USB Cable+adapter



### 6.3.3 Test Setup Diagram



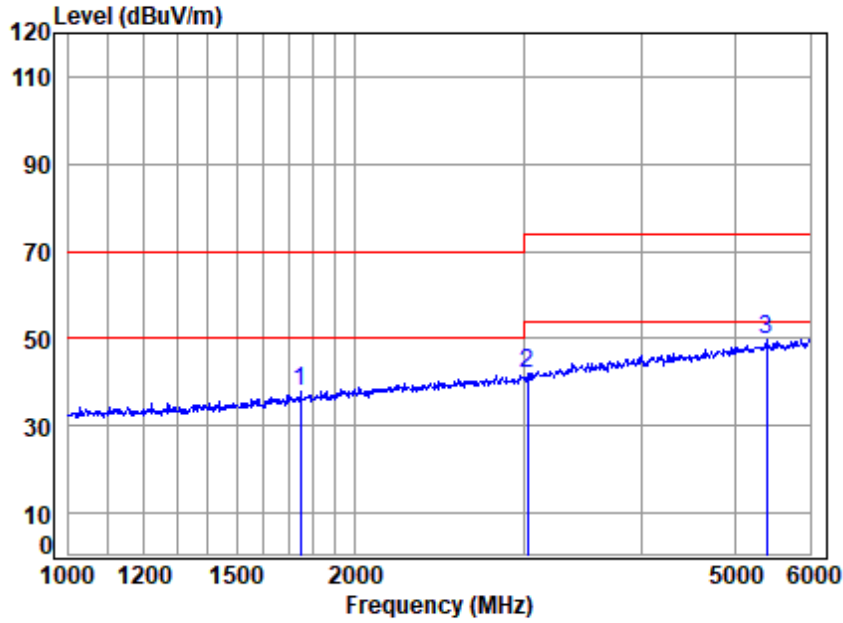
### 6.3.4 Measurement Procedure and Data

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.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



Test Mode: 04; Polarity: Horizontal

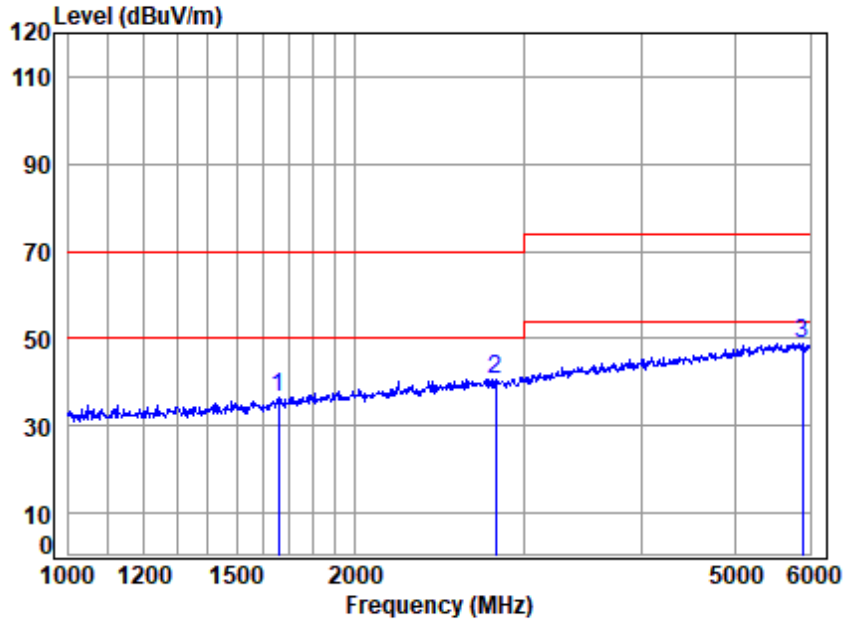


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20698AT  
Mode : 04

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1748.973	3.47	26.93	40.08	47.52	37.84	70.00	-32.16 Peak
2	3031.626	4.90	30.49	40.73	47.38	42.04	74.00	-31.96 Peak
3	5398.093	8.01	34.16	42.34	49.85	49.68	74.00	-24.32 Peak



Test Mode: 04; Polarity: Vertical

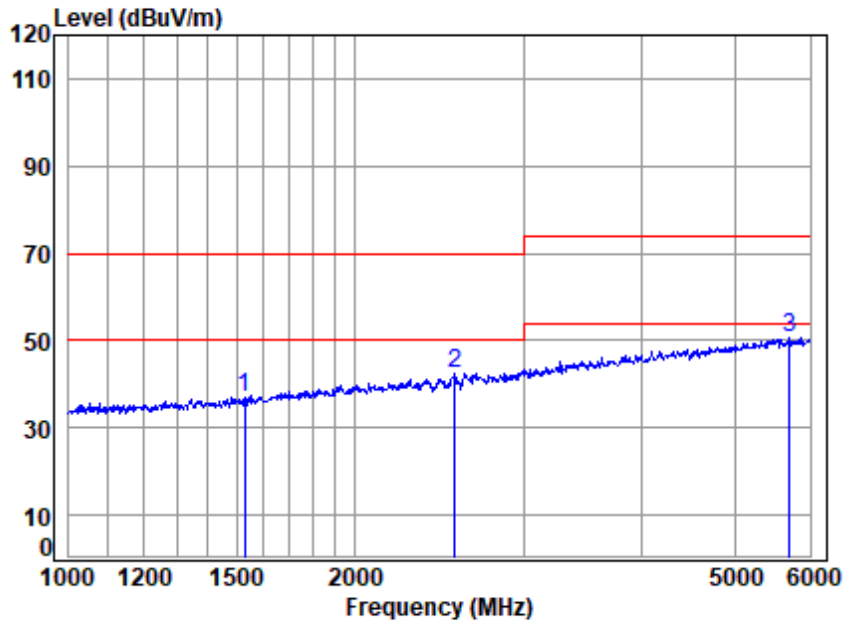


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20698AT  
Mode : 04

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1660.416	3.40	26.51	40.04	46.78	36.65	70.00	-33.35	Peak
2	2806.823	4.74	29.93	40.62	46.61	40.66	70.00	-29.34	Peak
3	5893.452	8.24	34.52	42.39	48.64	49.01	74.00	-24.99	Peak



Test Mode: 05; Polarity: Horizontal

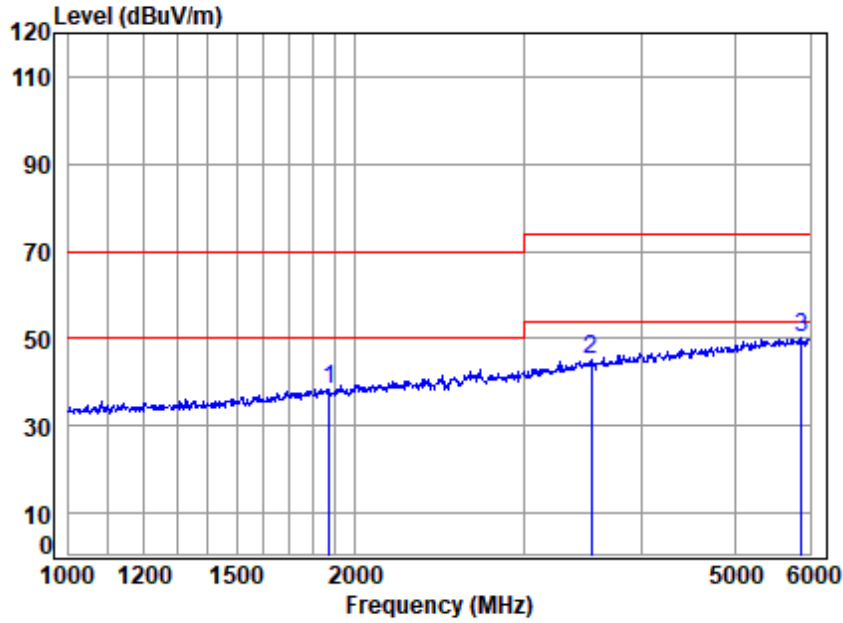


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20698AT  
Mode : 05

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1529.051	3.29	25.85	39.97	47.75	36.92	70.00	-33.08 Peak
2	2543.413	4.55	29.22	40.50	48.99	42.26	70.00	-27.74 Peak
3	5706.411	8.21	34.37	42.37	50.58	50.79	74.00	-23.21 Peak



Test Mode: 05; Polarity: Vertical

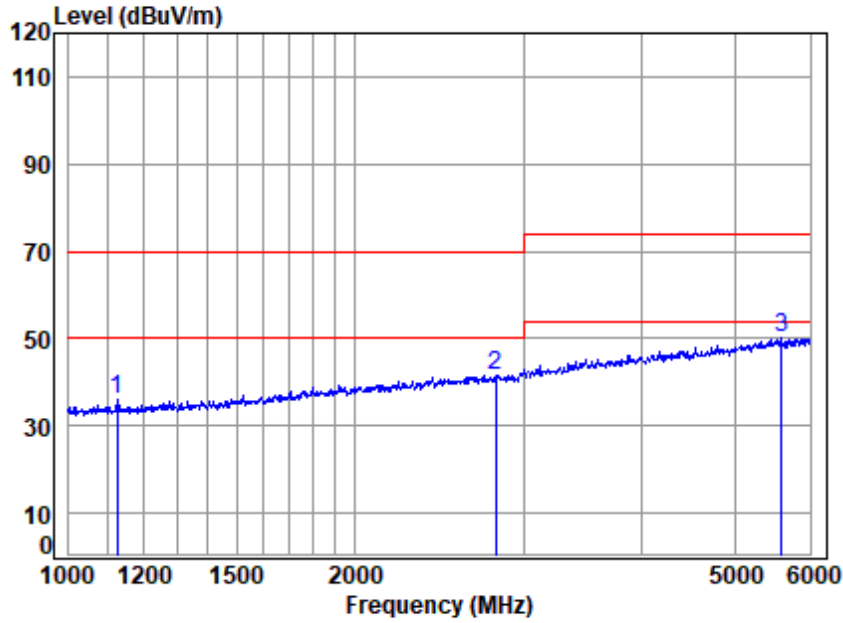


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20698AT  
Mode : 05

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1878.924	3.57	27.50	40.15	47.61	38.53	70.00	-31.47 Peak
2	3536.687	5.58	31.77	41.10	49.11	45.36	74.00	-28.64 Peak
3	5882.902	8.24	34.51	42.39	49.76	50.12	74.00	-23.88 Peak



Test Mode: 06; Polarity: Horizontal

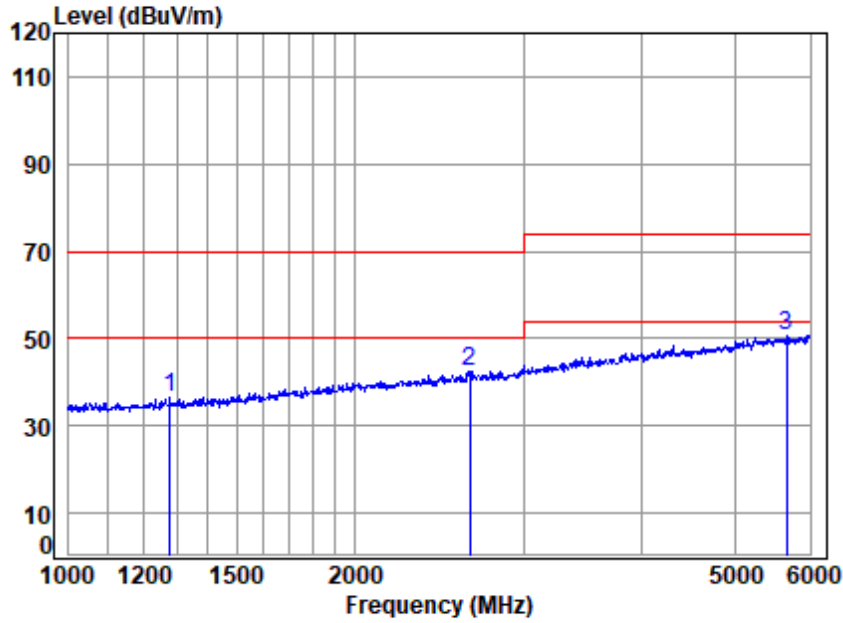


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20698AT  
Mode : 06

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1123.517	2.62	24.92	39.70	48.14	35.98	70.00	-34.02 Peak
2	2806.823	4.74	29.93	40.62	47.50	41.55	70.00	-28.45 Peak
3	5595.042	8.20	34.28	42.36	49.98	50.10	74.00	-23.90 Peak



Test Mode: 06; Polarity: Vertical

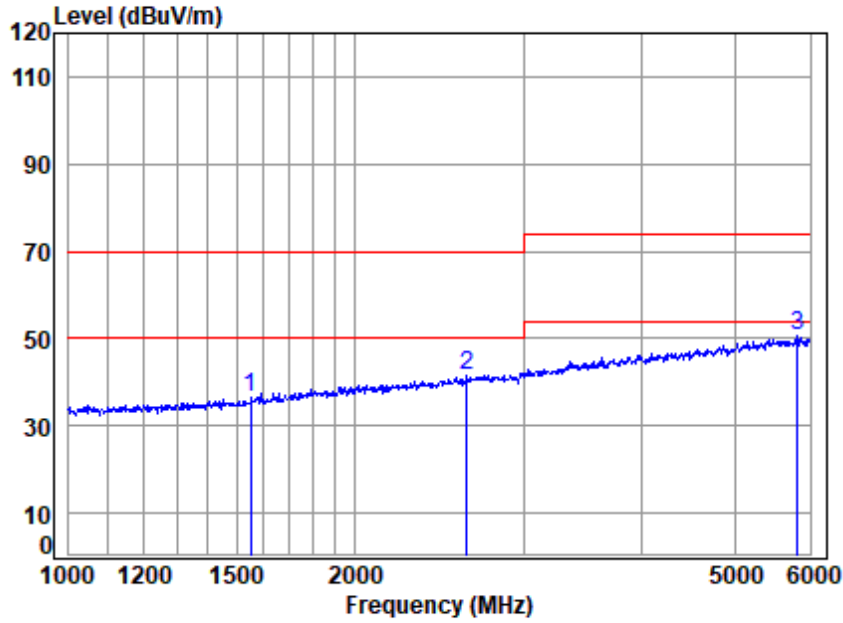


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20698AT  
Mode : 06

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1275.935	2.90	25.26	39.81	48.12	36.47	70.00	-33.53 Peak
2	2636.209	4.62	29.48	40.54	48.98	42.54	70.00	-27.46 Peak
3	5665.659	8.21	34.34	42.37	50.33	50.51	74.00	-23.49 Peak



Test Mode: 07; Polarity: Horizontal

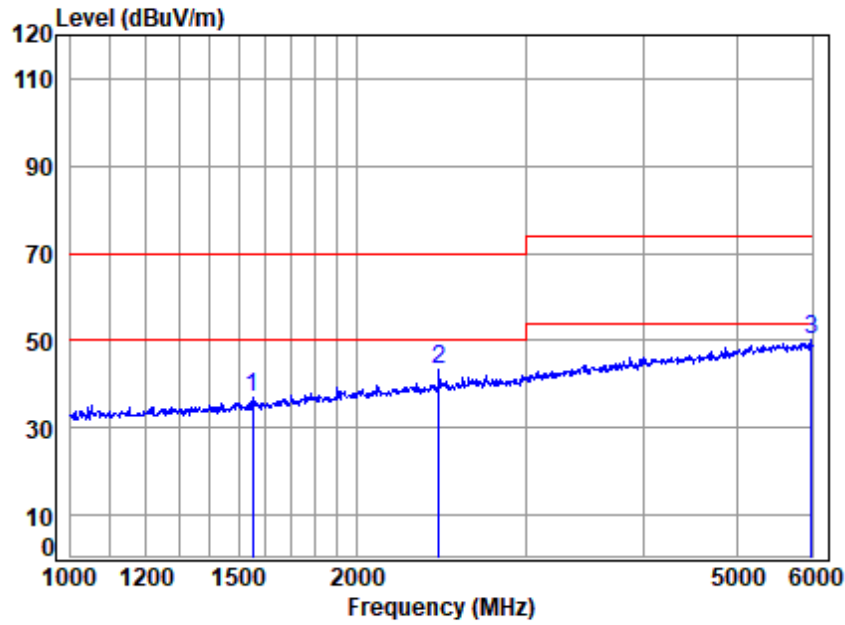


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20698AT  
Mode : 07

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1553.908	3.31	25.98	39.98	46.99	36.30	70.00	-33.70	Peak
2	2617.383	4.61	29.43	40.53	48.13	41.64	70.00	-28.36	Peak
3	5819.996	8.23	34.46	42.38	50.12	50.43	74.00	-23.57	Peak



Test Mode: 07; Polarity: Vertical

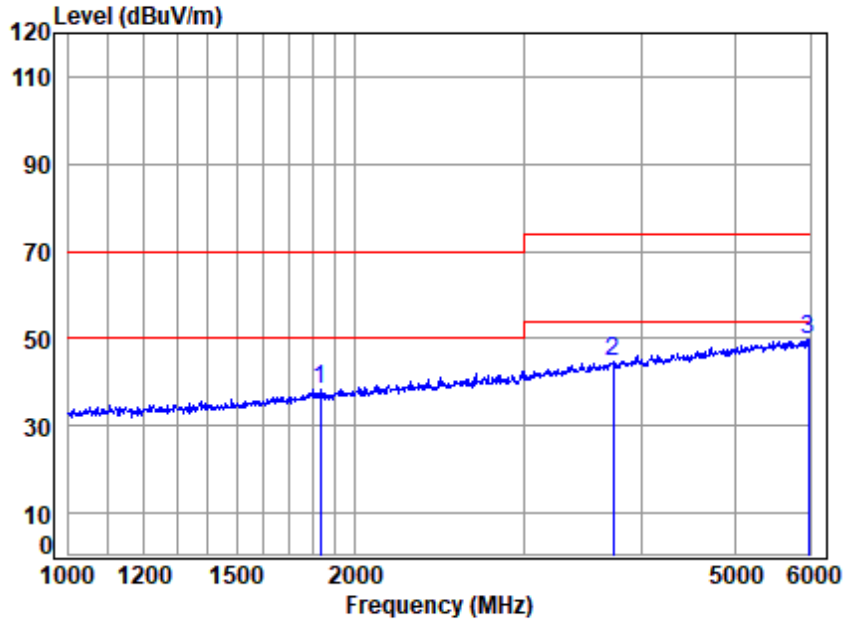


Site : chamber  
Condition: 3m VERTICAL  
Job No : 20698AT  
Mode : 07

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1551.126	3.31	25.97	39.98	47.46	36.76	70.00	-33.24 Peak
2	2436.358	4.42	28.97	40.44	50.48	43.43	70.00	-26.57 Peak
3	5989.259	8.26	34.59	42.40	49.83	50.28	74.00	-23.72 Peak



Test Mode: 08; Polarity: Horizontal

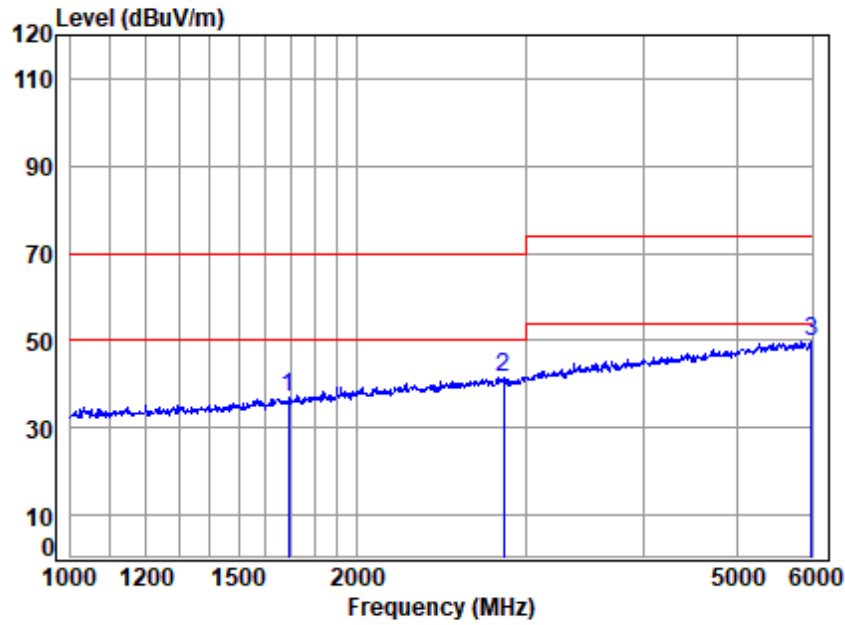


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 20698AT  
Mode : 08

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1838.956	3.54	27.33	40.13	47.48	38.22	70.00	-31.78	Peak
2	3731.996	5.89	32.13	41.23	47.84	44.63	74.00	-29.37	Peak
3	5978.538	8.26	34.58	42.40	49.21	49.65	74.00	-24.35	Peak



Test Mode: 08; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 20698AT  
Mode : 08

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1693.466	3.42	26.67	40.06	46.86	36.89	70.00	-33.11 Peak
2	2847.347	4.76	30.03	40.64	47.38	41.53	70.00	-28.47 Peak
3	5989.259	8.26	34.59	42.40	49.09	49.54	74.00	-24.46 Peak



## 7 Test Setup Photo

Please refer to setup photos.

## 8 EUT Constructional Details (EUT Photos)

Refer to external and internal photos.

- End of the Report -

