


## TEST REPORT

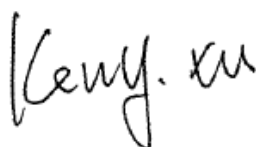
**Application No.:** SZEM1909018054CR  
**Applicant:** Livongo Health, Inc  
**Address of Applicant:** 150 W. Evelyn, Suite 150, Mountain View, CA 94041  
**Manufacturer:** Livongo Health, Inc  
**Address of Manufacturer:** 150 W. Evelyn, Suite 150, Mountain View, CA 94041  
**Factory:** Dongguan Kaifa Technology Co., Ltd.  
**Address of Factory:** No. 2 Junma road, Chigang community, Humen town, Dongguan City, Guangdong Province, China.

**Equipment Under Test (EUT):**

**EUT Name:** Livongo Blood Glucose Monitoring System  
**Model No.:** BG1000  
**Trade mark:**   
**FCC ID:** 2AA92LV02795  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2019-09-02  
**Date of Test:** 2019-09-02 to 2019-09-08  
**Date of Issue:** 2019-10-30

<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  
EMC Laboratory Manager





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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-10-30		Original

<b>Authorized for issue by:</b>			
			
		<b>Damon Su /Project Engineer</b>	
			
		<b>Eric Fu /Reviewer</b>	

## 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)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

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## 4 General Information

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

Power supply:	DC 3.85V by rechargeable lithium battery。 Adapter model: PSAA05A-050QL6 Input: AC 100-240V, 50/60Hz, 0.2A Output: DC 5V, 1A
Cable:	USB Cable(shielded, 1.0m)

### 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

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.45\text{dB}$ (9kHz to 150kHz)
		$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 3.1\text{dB}$ (9kHz-30MHz)
		$\pm 4.5\text{dB}$ (30MHz-1GHz)
		$\pm 4.8\text{dB}$ (1GHz-6GHz)
3	Temperature test	$\pm 1^\circ\text{C}$
4	Humidity test	$\pm 3\%$
5	DC power test	$\pm 0.5\%$

#### 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:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **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	ChangZhou ZhongYu	GB-88	SEM001-06	2019-06-13	2022-06-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019-07-11	2020-07-10
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018-09-25	2019-09-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31

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	2017-08-05	2020-08-04
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2018-09-25	2019-09-24
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11
Horn Antenna(1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11



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General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03



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## 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
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

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

Operating Environment:

Temperature: 20.6 °C Humidity: 53.5 % RH Atmospheric Pressure: 1005 mbar

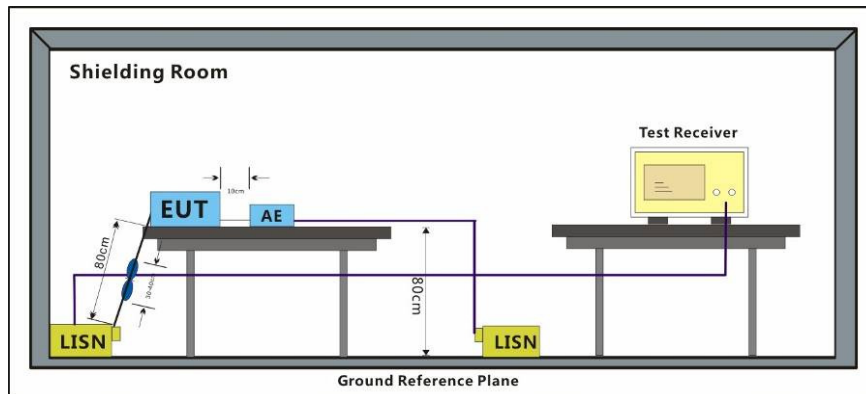
Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC.
- b: Telecom Idle+BT+WLAN+camera(back)+battery+ Cable+adapter
- c: Telecom Idle+BT+WLAN+camera(Front)+battery+ Cable+adapter
- d: Telecom Idle+BT+WLAN+playing MP4+earphone
- e: GSM 850M+BT+WLAN+battery+ Cable+adapter
- f: GSM 1900M+BT+WLAN+battery+ Cable+adapter
- g: WCDMA Band 2+BT+WLAN+battery+ Cable+adapter
- h: WCDMA Band 4+BT+WLAN+battery+ Cable+adapter
- i: WCDMA Band 5+BT+WLAN+battery+ Cable+adapter
- j: LTE Band 2+BT+WLAN+battery+ Cable+adapter
- k: LTE Band 4+BT+WLAN+battery+ Cable+adapter
- l: LTE Band 5+BT+WLAN+battery+ Cable+adapter
- m: LTE Band 12+BT+WLAN+battery+ Cable+adapter
- n: LTE Band 66+BT+WLAN+battery+ Cable+adapter
- o: LTE Band 71+BT+WLAN+battery+ Cable+adapter

The worst case for final test:

- a: Transfer data between the EUT and the PC.
- b: Telecom Idle+BT+WLAN+camera(back)+battery+ Cable+adapter
- e: GSM 850M+BT+WLAN+battery+ Cable+adapter
- f: GSM 1900M+BT+WLAN+battery+ Cable+adapter

### 6.1.2 Test Setup Diagram

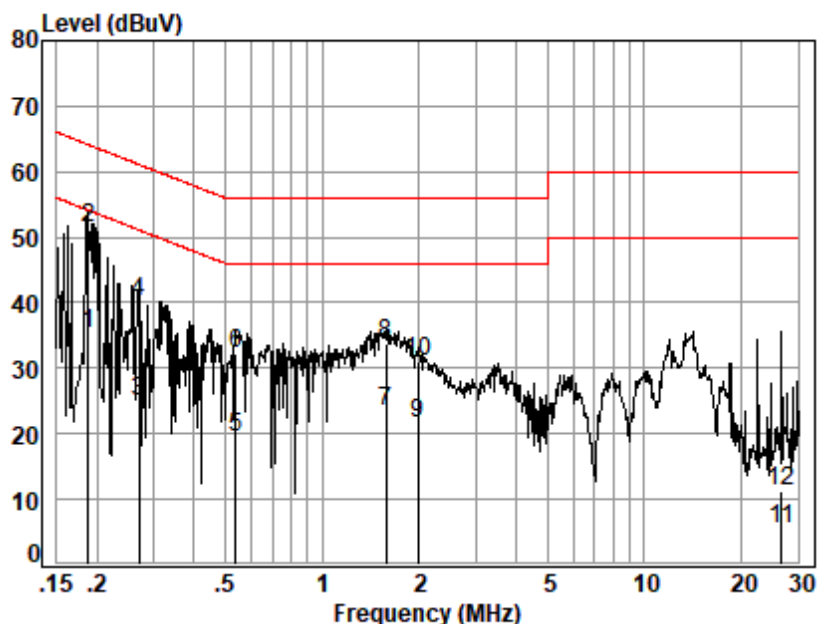


### 6.1.3 Measurement Data

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



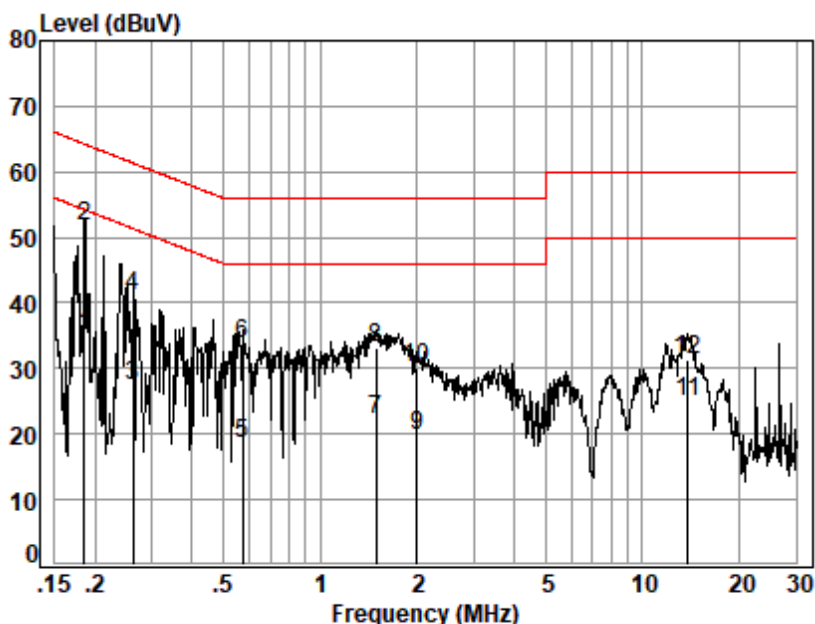
Mode:a; Line:Live Line



Site : Shielding Room  
Condition: Line  
Job No. : 18054CR  
Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBUV	dBUV	dBUV	dB	
1	0.19	0.02	9.66	25.57	35.25	54.15	-18.90	Average
2	0.19	0.02	9.66	41.79	51.47	64.15	-12.68	QP
3	0.27	0.03	9.67	15.24	24.94	51.12	-26.18	Average
4	0.27	0.03	9.67	30.50	40.20	61.12	-20.92	QP
5	0.54	0.06	9.67	9.62	19.35	46.00	-26.65	Average
6	0.54	0.06	9.67	22.64	32.37	56.00	-23.63	QP
7	1.58	0.14	9.73	13.63	23.50	46.00	-22.50	Average
8	1.58	0.14	9.73	23.96	33.83	56.00	-22.17	QP
9	1.98	0.16	9.72	11.64	21.52	46.00	-24.48	Average
10	1.98	0.16	9.72	21.15	31.03	56.00	-24.97	QP
11	26.70	0.27	10.32	-5.07	5.52	50.00	-44.48	Average
12	26.70	0.27	10.32	0.55	11.14	60.00	-48.86	QP

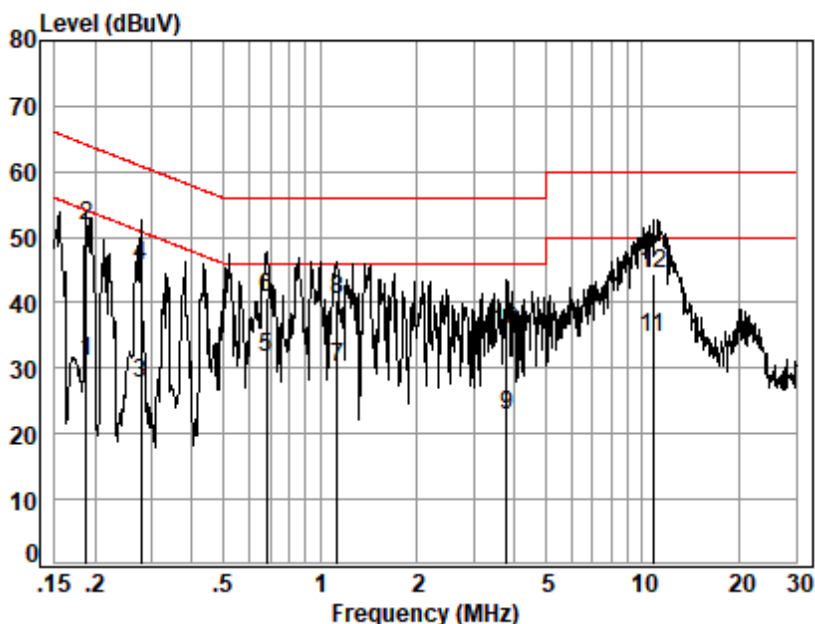
Mode:a; Line:Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 18054CR  
Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.64	25.44	35.10	54.24	-19.14	Average
2	0.19	0.02	9.64	41.91	51.57	64.24	-12.67	QP
3	0.26	0.03	9.64	17.72	27.39	51.34	-23.95	Average
4	0.26	0.03	9.64	31.48	41.15	61.34	-20.19	QP
5	0.57	0.07	9.64	8.74	18.45	46.00	-27.55	Average
6	0.57	0.07	9.64	23.99	33.70	56.00	-22.30	QP
7	1.49	0.13	9.70	12.52	22.35	46.00	-23.65	Average
8	1.49	0.13	9.70	23.26	33.09	56.00	-22.91	QP
9	2.00	0.16	9.69	9.79	19.64	46.00	-26.36	Average
10	2.00	0.16	9.69	20.12	29.97	56.00	-26.03	QP
11	13.84	0.20	10.27	14.38	24.85	50.00	-25.15	Average
12	13.84	0.20	10.27	20.75	31.22	60.00	-28.78	QP

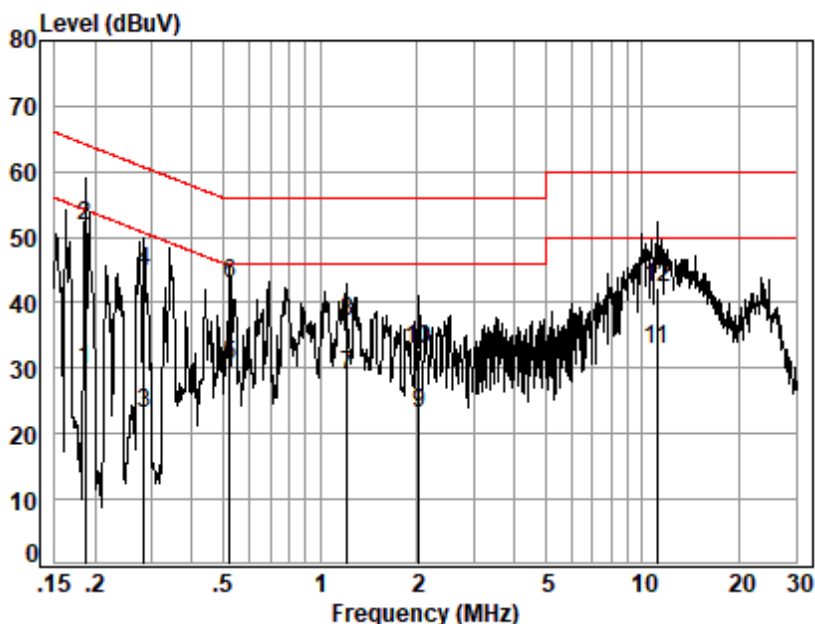
Mode:b; Line:Live Line



Site : Shielding Room  
Condition: Line  
Job No. : 18054CR  
Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.66	21.28	30.96	54.11	-23.15	Average
2	0.19	0.02	9.66	41.97	51.65	64.11	-12.46	QP
3	0.28	0.04	9.67	17.92	27.63	50.85	-23.22	Average
4	0.28	0.04	9.67	35.88	45.59	60.85	-15.26	QP
5	0.68	0.07	9.68	21.84	31.59	46.00	-14.41	Average
6	0.68	0.07	9.68	30.93	40.68	56.00	-15.32	QP
7	1.13	0.10	9.73	20.33	30.16	46.00	-15.84	Average
8	1.13	0.10	9.73	30.77	40.60	56.00	-15.40	QP
9	3.80	0.16	9.72	12.96	22.84	46.00	-23.16	Average
10	3.80	0.16	9.72	25.74	35.62	56.00	-20.38	QP
11	10.79	0.18	9.94	24.64	34.76	50.00	-15.24	Average
12	10.79	0.18	9.94	34.22	44.34	60.00	-15.66	QP

Mode:b; Line:Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 18054CR  
Test mode: b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.64	20.01	29.67	54.20	-24.53	Average
2	0.19	0.02	9.64	42.19	51.85	64.20	-12.35	QP
3	0.28	0.04	9.64	13.44	23.12	50.68	-27.56	Average
4	0.28	0.04	9.64	35.11	44.79	60.68	-15.89	QP
5	0.52	0.06	9.64	20.75	30.45	46.00	-15.55	Average
6	0.52	0.06	9.64	33.16	42.86	56.00	-13.14	QP
7	1.21	0.11	9.70	19.03	28.84	46.00	-17.16	Average
8	1.21	0.11	9.70	27.39	37.20	56.00	-18.80	QP
9	2.02	0.16	9.69	13.21	23.06	46.00	-22.94	Average
10	2.02	0.16	9.69	23.00	32.85	56.00	-23.15	QP
11	11.14	0.18	9.98	22.58	32.74	50.00	-17.26	Average
12	11.14	0.18	9.98	32.21	42.37	60.00	-17.63	QP

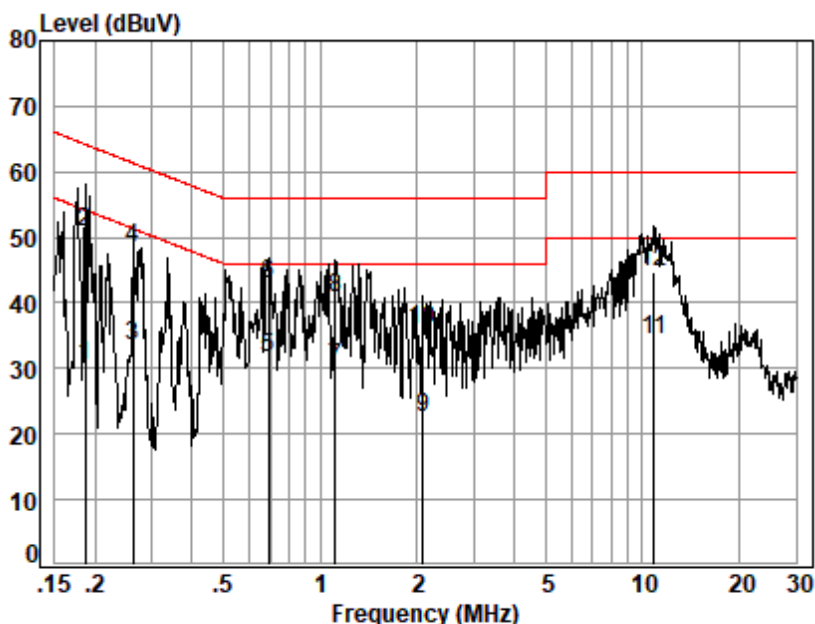


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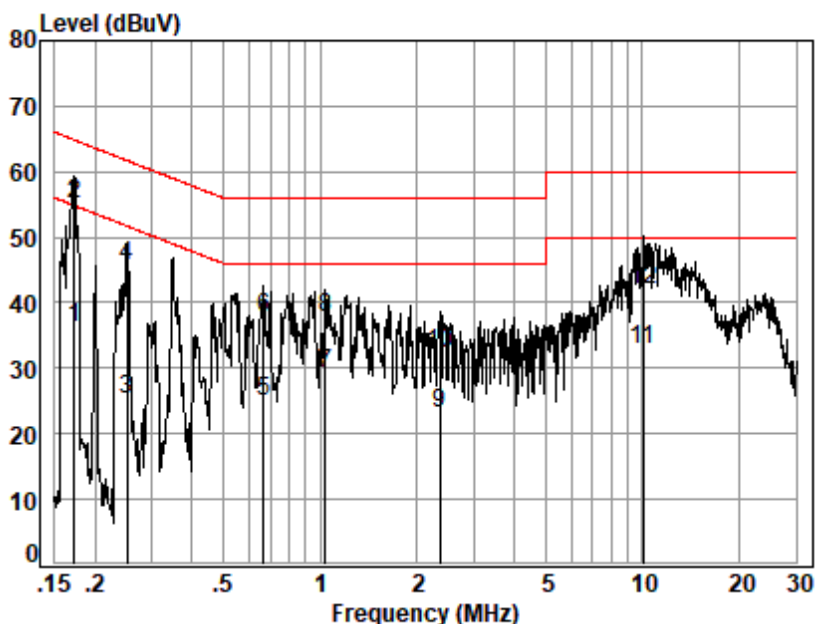
Mode:e; Line:Live Line



Site : Shielding Room  
Condition: Line  
Job No. : 18054CR  
Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.02	9.66	20.74	30.42	54.20	-23.78	Average
2	0.19	0.02	9.66	40.98	50.66	64.20	-13.54	QP
3	0.26	0.03	9.67	23.91	33.61	51.34	-17.73	Average
4	0.26	0.03	9.67	38.75	48.45	61.34	-12.89	QP
5	0.69	0.07	9.68	21.82	31.57	46.00	-14.43	Average
6	0.69	0.07	9.68	33.02	42.77	56.00	-13.23	QP
7	1.12	0.10	9.73	20.26	30.09	46.00	-15.91	Average
8	1.12	0.10	9.73	30.88	40.71	56.00	-15.29	QP
9	2.09	0.16	9.72	12.76	22.64	46.00	-23.36	Average
10	2.09	0.16	9.72	25.93	35.81	56.00	-20.19	QP
11	10.85	0.18	9.95	24.36	34.49	50.00	-15.51	Average
12	10.85	0.18	9.95	34.46	44.59	60.00	-15.41	QP

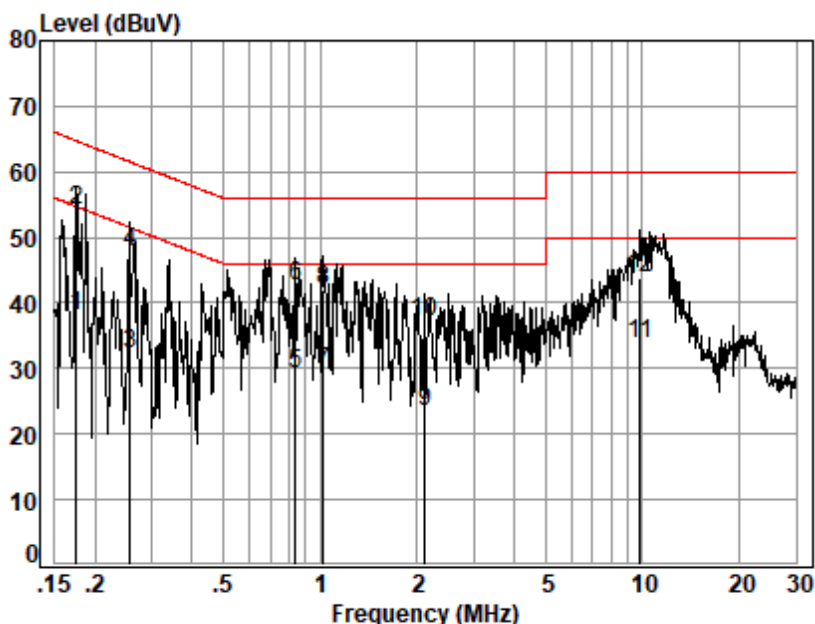
Mode:e; Line:Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 18054CR  
Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.64	26.65	36.31	54.81	-18.50	Average
2	0.17	0.02	9.64	45.42	55.08	64.81	-9.73	QP
3	0.25	0.03	9.64	15.70	25.37	51.73	-26.36	Average
4	0.25	0.03	9.64	35.87	45.54	61.73	-16.19	QP
5	0.66	0.07	9.65	15.12	24.84	46.00	-21.16	Average
6	0.66	0.07	9.65	27.94	37.66	56.00	-18.34	QP
7	1.04	0.09	9.71	19.31	29.11	46.00	-16.89	Average
8	1.04	0.09	9.71	27.88	37.68	56.00	-18.32	QP
9	2.35	0.16	9.68	13.42	23.26	46.00	-22.74	Average
10	2.35	0.16	9.68	22.51	32.35	56.00	-23.65	QP
11	10.07	0.17	9.85	22.95	32.97	50.00	-17.03	Average
12	10.07	0.17	9.85	31.96	41.98	60.00	-18.02	QP

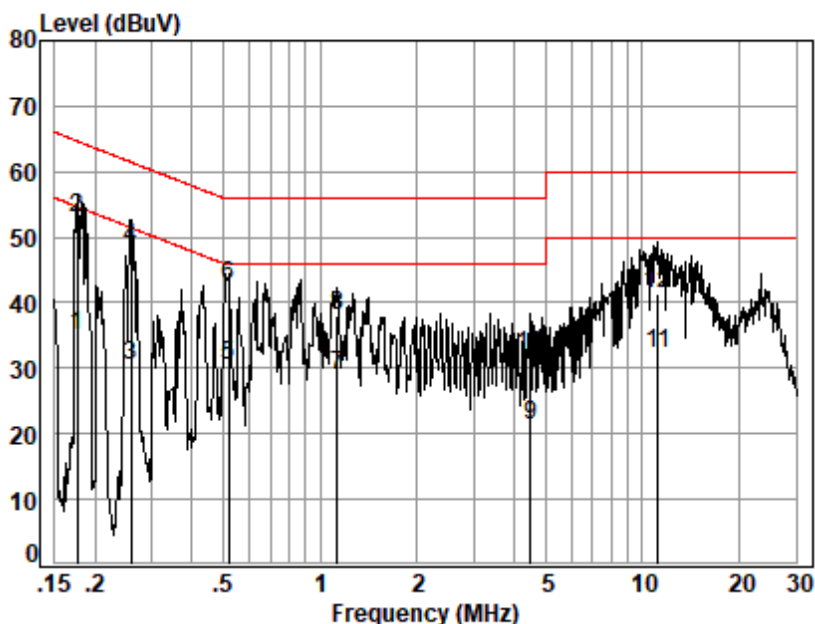
Mode:f; Line:Live Line



Site : Shielding Room  
Condition: Line  
Job No. : 18054CR  
Test mode: f

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.66	28.23	37.91	54.72	-16.81	Average
2	0.17	0.02	9.66	44.35	54.03	64.72	-10.69	QP
3	0.26	0.03	9.67	22.61	32.31	51.56	-19.25	Average
4	0.26	0.03	9.67	37.92	47.62	61.56	-13.94	QP
5	0.84	0.08	9.74	19.41	29.23	46.00	-16.77	Average
6	0.84	0.08	9.74	32.89	42.71	56.00	-13.29	QP
7	1.02	0.09	9.74	19.73	29.56	46.00	-16.44	Average
8	1.02	0.09	9.74	32.10	41.93	56.00	-14.07	QP
9	2.11	0.16	9.72	13.57	23.45	46.00	-22.55	Average
10	2.11	0.16	9.72	27.35	37.23	56.00	-18.77	QP
11	9.86	0.17	9.85	23.63	33.65	50.00	-16.35	Average
12	9.86	0.17	9.85	33.68	43.70	60.00	-16.30	QP

Mode:f; Line:Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 18054CR  
Test mode: f

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.02	9.64	25.41	35.07	54.68	-19.61	Average
2	0.18	0.02	9.64	43.13	52.79	64.68	-11.89	QP
3	0.26	0.03	9.64	20.77	30.44	51.47	-21.03	Average
4	0.26	0.03	9.64	38.79	48.46	61.47	-13.01	QP
5	0.52	0.06	9.64	20.78	30.48	46.00	-15.52	Average
6	0.52	0.06	9.64	32.81	42.51	56.00	-13.49	QP
7	1.13	0.10	9.70	19.11	28.91	46.00	-17.09	Average
8	1.13	0.10	9.70	28.17	37.97	56.00	-18.03	QP
9	4.50	0.17	9.70	11.45	21.32	46.00	-24.68	Average
10	4.50	0.17	9.70	22.02	31.89	56.00	-24.11	QP
11	11.20	0.18	9.99	22.07	32.24	50.00	-17.76	Average
12	11.20	0.18	9.99	31.27	41.44	60.00	-18.56	QP

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

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

### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case:

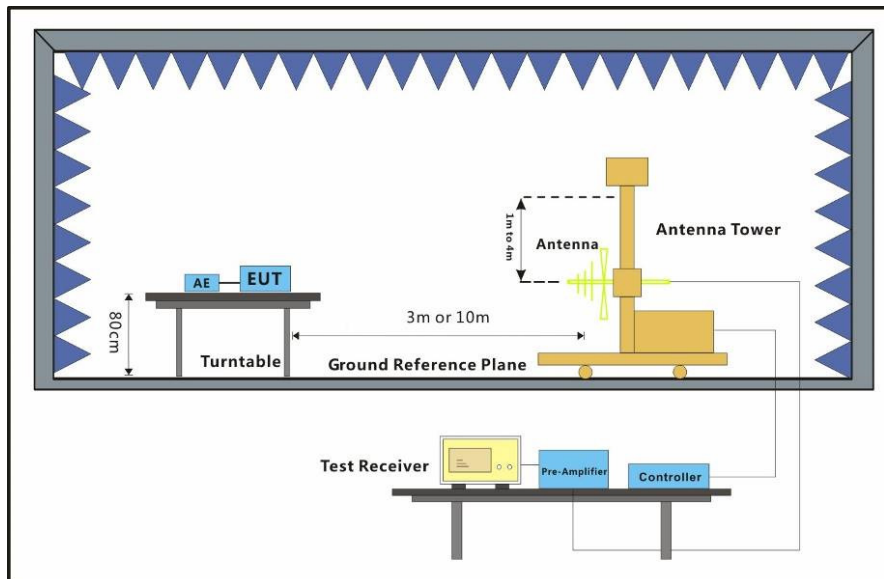
- a: Transfer data between the EUT and the PC.
- b: Telecom Idle+BT+WLAN+camera(back)+battery+ Cable+adapter
- c: Telecom Idle+BT+WLAN+camera(Front)+battery+ Cable+adapter
- d: Telecom Idle+BT+WLAN+playing MP4+earphone
- e: GSM 850M+BT+WLAN+battery+ Cable+adapter
- f: GSM 1900M+BT+WLAN+battery+ Cable+adapter
- g: WCDMA Band 2+BT+WLAN+battery+ Cable+adapter
- h: WCDMA Band 4+BT+WLAN+battery+ Cable+adapter
- i: WCDMA Band 5+BT+WLAN+battery+ Cable+adapter
- j: LTE Band 2+BT+WLAN+battery+ Cable+adapter
- k: LTE Band 4+BT+WLAN+battery+ Cable+adapter
- l: LTE Band 5+BT+WLAN+battery+ Cable+adapter
- m: LTE Band 12+BT+WLAN+battery+ Cable+adapter
- n: LTE Band 66+BT+WLAN+battery+ Cable+adapter
- o: LTE Band 71+BT+WLAN+battery+ Cable+adapter

The worst case for final test:

- a: Transfer data between the EUT and the PC.
- b: Telecom Idle+BT+WLAN+camera(back)+battery+ Cable+adapter
- e: GSM 850M+BT+WLAN+battery+ Cable+adapter
- f: GSM 1900M+BT+WLAN+battery+ Cable+adapter



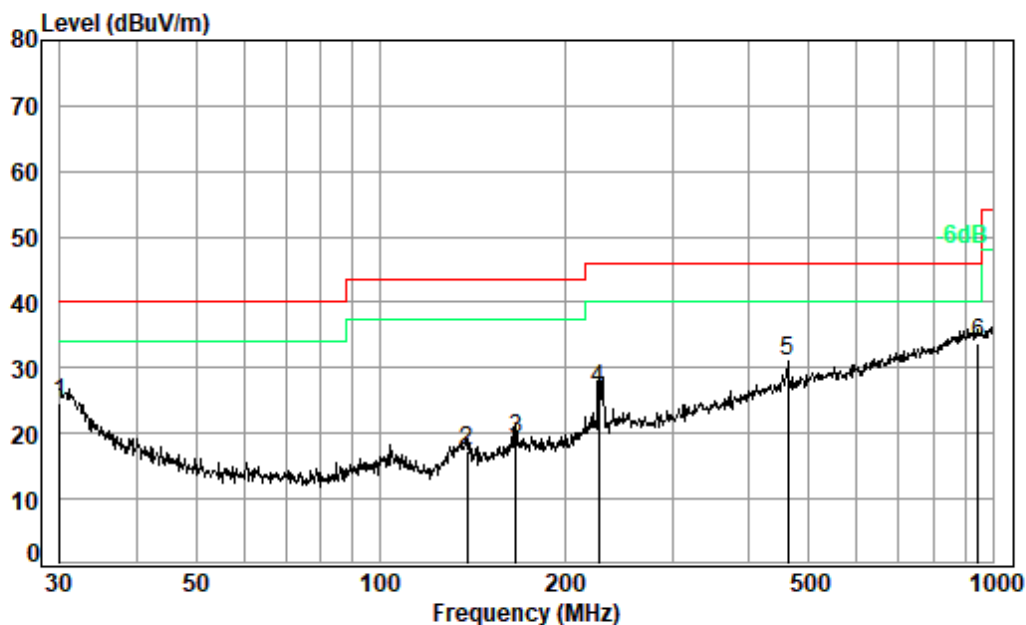
## 6.2.2 Test Setup Diagram



## 6.2.3 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.

Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 18054CR

Test Mode: a

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	22.50	27.73	29.39	24.76	40.00	-15.24
2	138.39	1.29	13.65	27.42	29.74	17.26	43.50	-26.24
3	166.65	1.35	15.64	27.29	29.50	19.20	43.50	-24.30
4	226.89	1.56	17.77	27.08	34.48	26.73	46.00	-19.27
5	462.35	2.46	23.83	27.69	32.47	31.07	46.00	-14.93
6 pp	945.44	3.65	30.03	27.11	27.32	33.89	46.00	-12.11

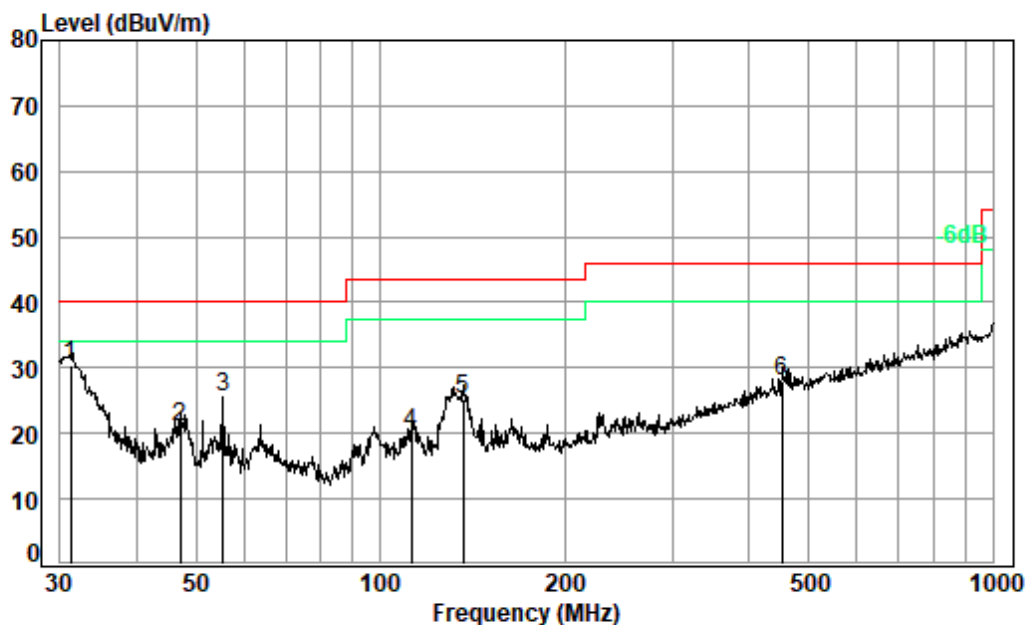


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Mode:a; Polarization:Vertical



Condition: 3m VERTICAL

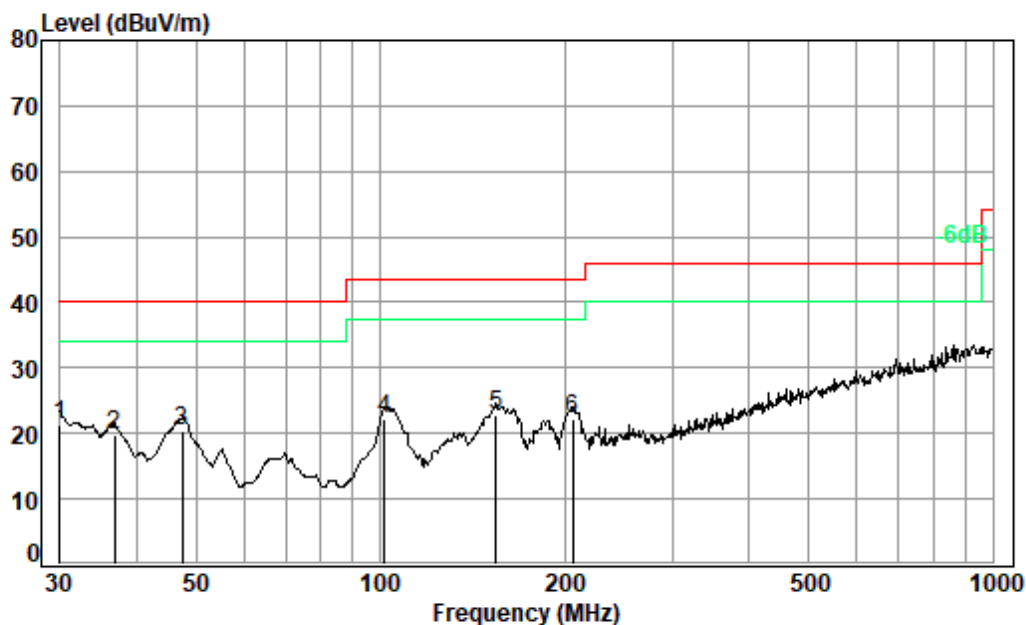
Job No. : 18054CR

Test Mode: a

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	31.29	0.60	21.77	27.73	35.68	30.32	40.00 -9.68
2		47.16	0.75	15.06	27.70	33.00	21.11	40.00 -18.89
3		55.41	0.80	13.64	27.68	38.75	25.51	40.00 -14.49
4		112.52	1.23	13.42	27.56	32.94	20.03	43.50 -23.47
5		136.46	1.29	13.60	27.43	37.83	25.29	43.50 -18.21
6		452.72	2.42	23.62	27.65	29.73	28.12	46.00 -17.88



Mode:b; Polarization:Horizontal



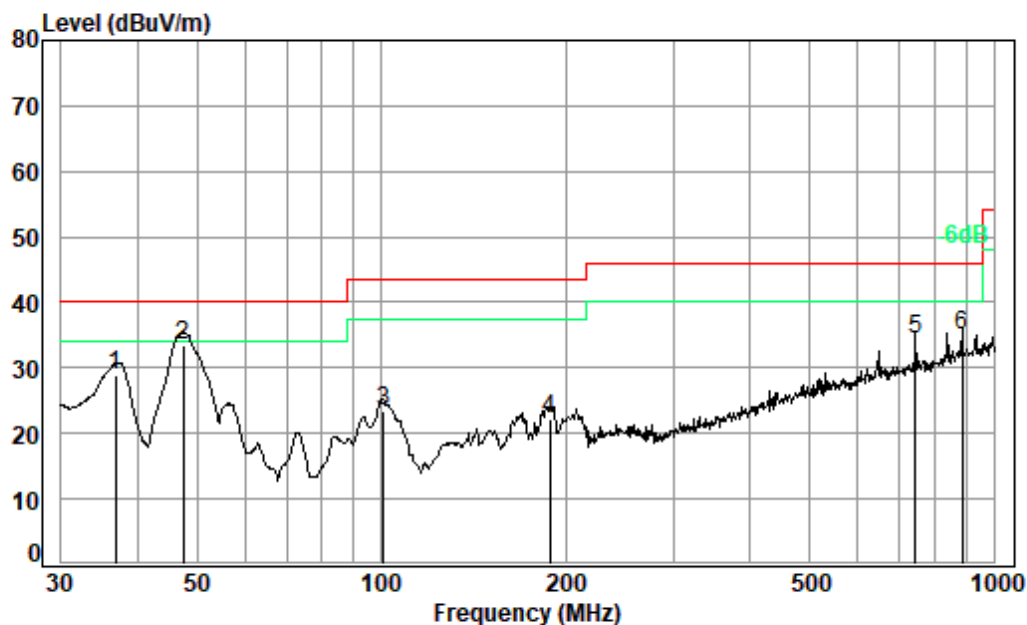
Condition: 3m HORIZONTAL

Job No. : 18054CR

Test Mode: b

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	30.00	0.60	22.50	27.73	25.96	21.33	40.00 -18.67
2		36.77	0.60	18.97	27.71	27.83	19.69	40.00 -20.31
3		47.49	0.75	14.96	27.69	32.45	20.47	40.00 -19.53
4		101.64	1.21	13.92	27.63	34.61	22.11	43.50 -21.39
5		154.28	1.33	15.01	27.34	33.74	22.74	43.50 -20.76
6		206.40	1.44	16.73	27.15	31.10	22.12	43.50 -21.38

Mode:b; Polarization:Vertical



Condition: 3m VERTICAL

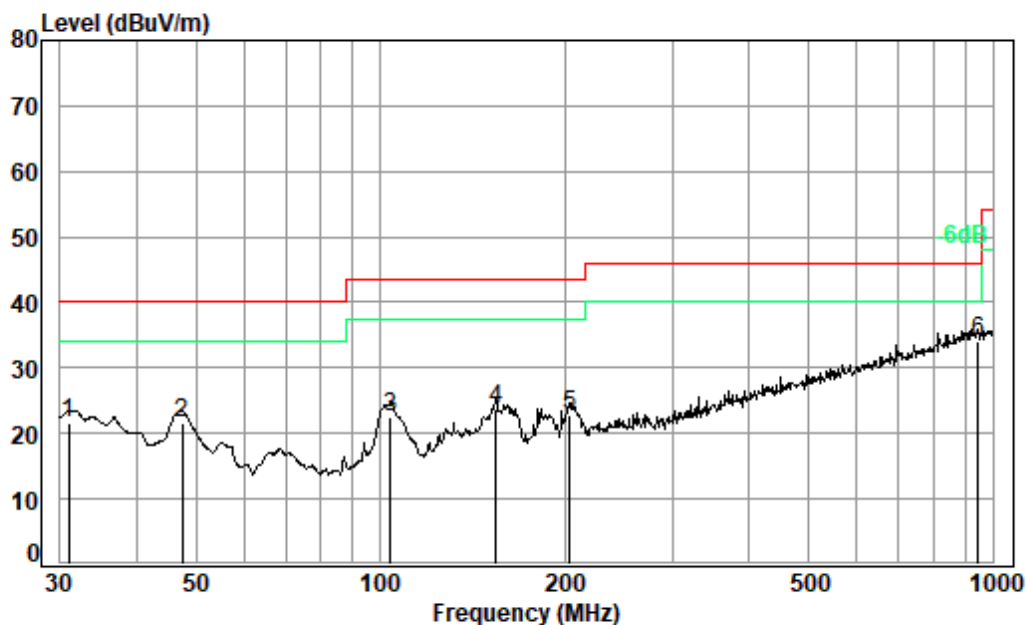
Job No. : 18054CR

Test Mode: b

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.77	0.60	18.97	27.71	36.94	28.80	40.00	-11.20
2 pp	47.49	0.75	14.96	27.69	45.46	33.48	40.00	-6.52
3	100.93	1.20	13.95	27.63	35.77	23.29	43.50	-20.21
4	188.41	1.38	16.16	27.21	31.80	22.13	43.50	-21.37
5	744.87	3.04	28.18	27.83	30.84	34.23	46.00	-11.77
6	887.61	3.55	29.65	27.34	29.19	35.05	46.00	-10.95



Mode:e; Polarization:Horizontal



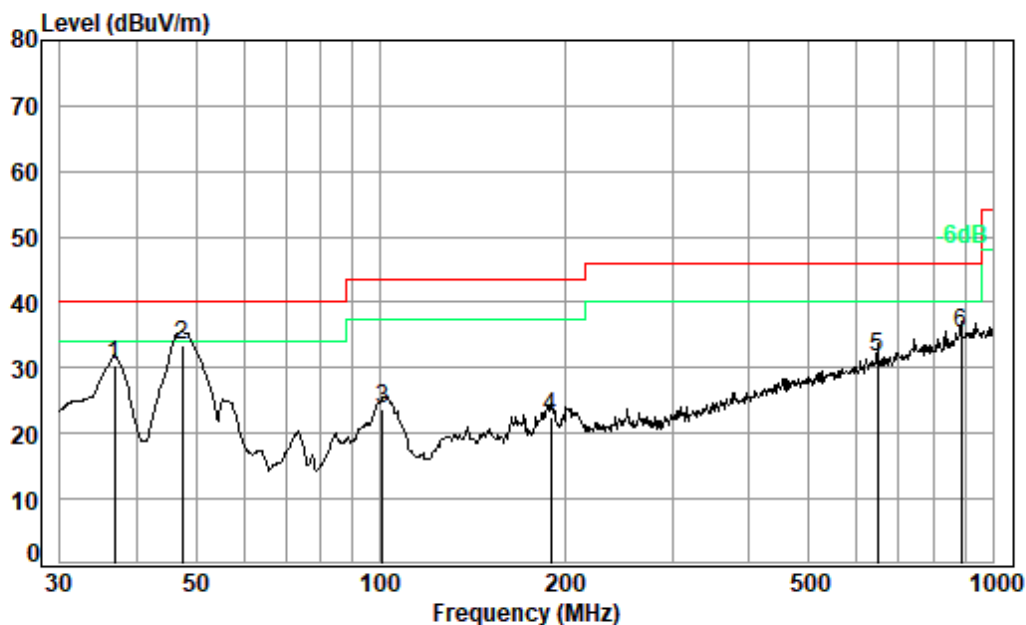
Condition: 3m HORIZONTAL

Job No. : 18054CR

Test Mode: e

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	0.60	21.95	27.73	26.71	21.53	40.00	-18.47
2	47.49	0.75	14.96	27.69	33.51	21.53	40.00	-18.47
3	103.81	1.21	13.82	27.61	35.15	22.57	43.50	-20.93
4	154.28	1.33	15.01	27.34	34.62	23.62	43.50	-19.88
5	203.52	1.42	16.63	27.15	31.78	22.68	43.50	-20.82
6 pp	945.44	3.65	30.03	27.11	27.40	33.97	46.00	-12.03

Mode:e; Polarization:Vertical



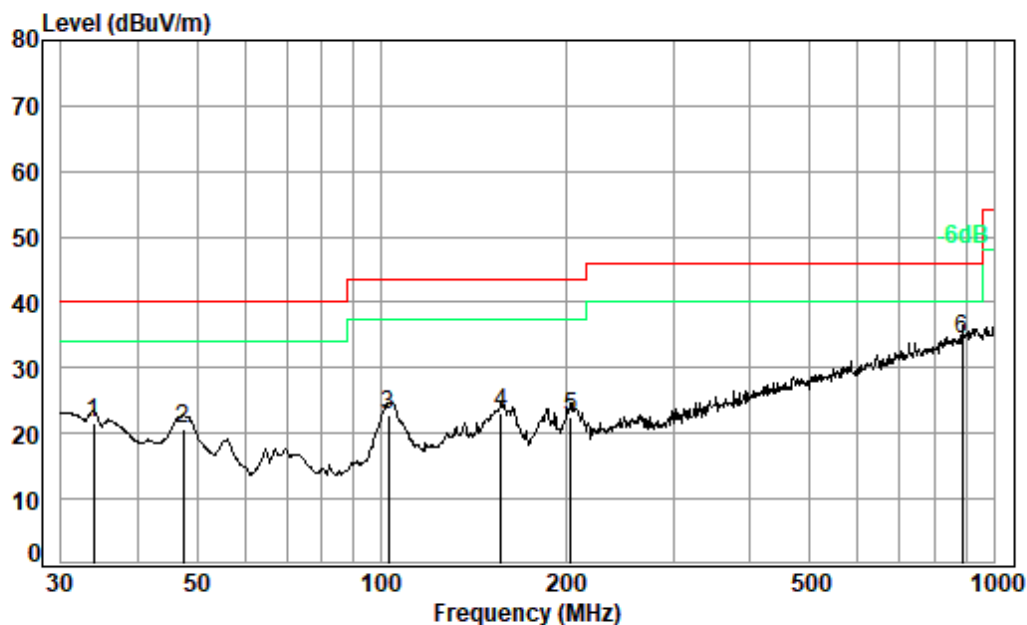
Condition: 3m VERTICAL

Job No. : 18054CR

Test Mode: e

	Freq	Cable	Ant	Preamp	Read	Limit	Over
	MHz	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	36.77	0.60	18.97	27.71	38.43	30.29	40.00
2 pp	47.49	0.75	14.96	27.69	45.54	33.56	40.00
3	100.93	1.20	13.95	27.63	36.13	23.65	43.50
4	189.74	1.38	16.20	27.20	32.25	22.63	43.50
5	647.39	2.80	27.24	28.05	29.74	31.73	46.00
6	887.61	3.55	29.65	27.34	29.30	35.16	46.00

Mode:f; Polarization:Horizontal



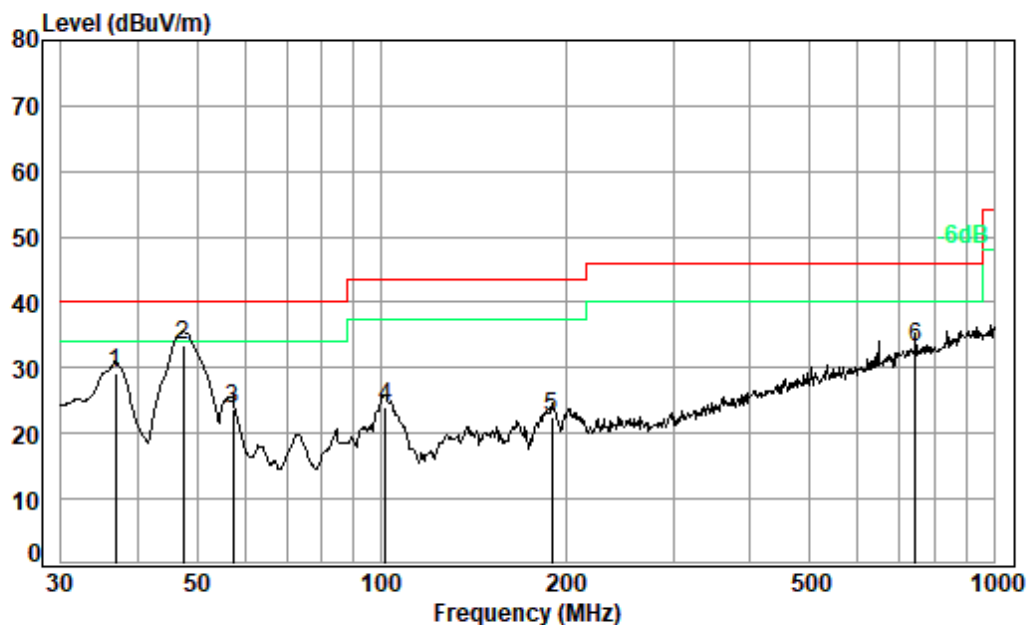
Condition: 3m HORIZONTAL

Job No. : 18054CR

Test Mode: f

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	33.92	0.60	20.37	27.72	28.45	21.70	40.00	-18.30
2	47.49	0.75	14.96	27.69	32.73	20.75	40.00	-19.25
3	102.72	1.21	13.87	27.62	35.33	22.79	43.50	-20.71
4	157.01	1.33	15.25	27.33	33.72	22.97	43.50	-20.53
5	203.52	1.42	16.63	27.15	31.74	22.64	43.50	-20.86
6 pp	887.61	3.55	29.65	27.34	28.54	34.40	46.00	-11.60

Mode:f; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 18054CR

Test Mode: f

		Cable	Ant	Preamp	Read	Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	36.77	0.60	18.97	27.71	37.23	29.09	40.00
2 pp	47.49	0.75	14.96	27.69	45.57	33.59	40.00
3	57.19	0.80	13.46	27.68	37.15	23.73	40.00
4	101.64	1.21	13.92	27.63	36.44	23.94	43.50
5	189.74	1.38	16.20	27.20	32.25	22.63	43.50
6	744.87	3.04	28.18	27.83	29.86	33.25	46.00



### 6.3 Radiated Emissions (above 1GHz)

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

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

Operating Environment:

Temperature: 23 °C Humidity: 59.1 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case:

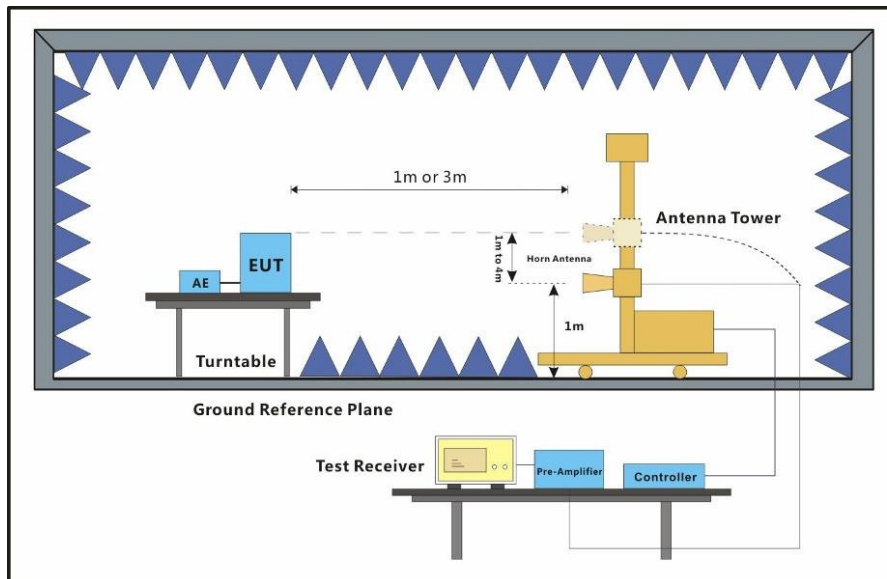
- a: Transfer data between the EUT and the PC.
- b: Telecom Idle+BT+WLAN+camera(back)+battery+ Cable+adapter
- c: Telecom Idle+BT+WLAN+camera(Front)+battery+ Cable+adapter
- d: Telecom Idle+BT+WLAN+playing MP4+earphone
- e: GSM 850M+BT+WLAN+battery+ Cable+adapter
- f: GSM 1900M+BT+WLAN+battery+ Cable+adapter
- g: WCDMA Band 2+BT+WLAN+battery+ Cable+adapter
- h: WCDMA Band 4+BT+WLAN+battery+ Cable+adapter
- i: WCDMA Band 5+BT+WLAN+battery+ Cable+adapter
- j: LTE Band 2+BT+WLAN+battery+ Cable+adapter
- k: LTE Band 4+BT+WLAN+battery+ Cable+adapter
- l: LTE Band 5+BT+WLAN+battery+ Cable+adapter
- m: LTE Band 12+BT+WLAN+battery+ Cable+adapter
- n: LTE Band 66+BT+WLAN+battery+ Cable+adapter
- o: LTE Band 71+BT+WLAN+battery+ Cable+adapter

The worst case for final test:

- b: Telecom Idle+BT+WLAN+camera(back)+battery+ Cable+adapter
- c: Telecom Idle+BT+WLAN+camera(Front)+battery+ Cable+adapter
- d: Telecom Idle+BT+WLAN+playing MP4+earphone



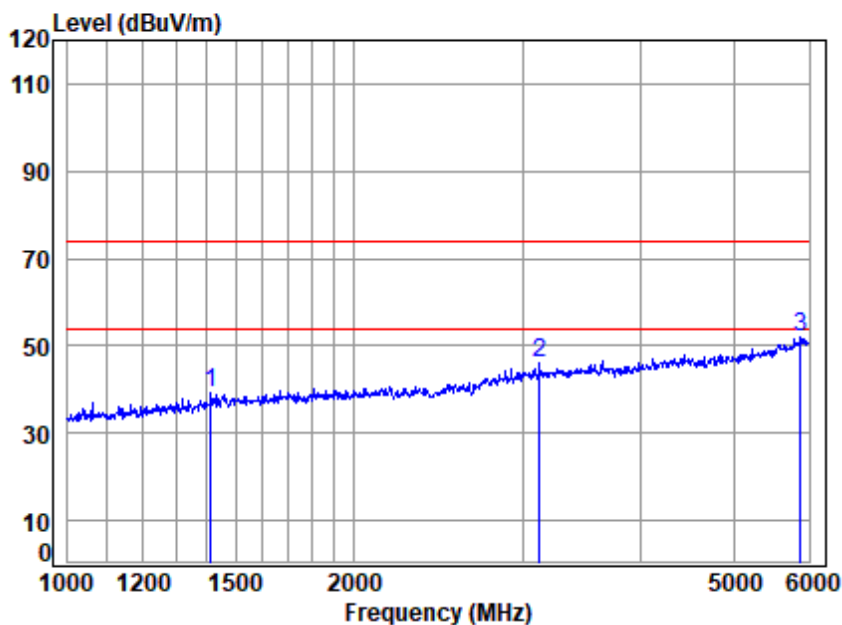
### 6.3.2 Test Setup Diagram



### 6.3.3 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.

Mode:b; Polarization:Horizontal



Site : chamber  
Condition: 3m Horizontal  
Job No : 18054CR  
Mode : b

		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	1413.134	5.20	25.48	40.65	49.11	39.14	74.00	-34.86	Peak
2	3125.390	6.11	31.11	41.59	50.30	45.93	74.00	-28.07	Peak
3	5872.370	10.14	34.98	42.94	49.75	51.93	74.00	-22.07	Peak

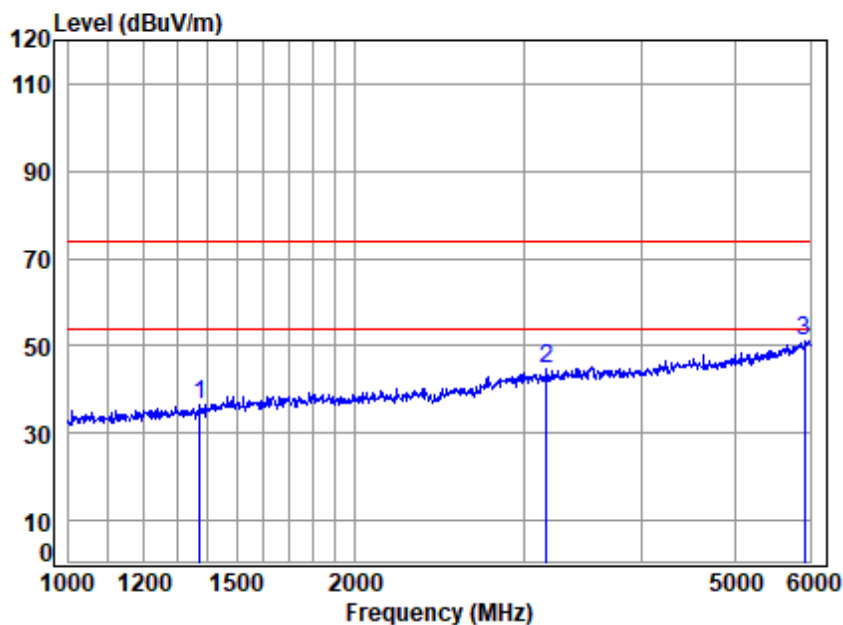


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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
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Mode:b; Polarization:Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 18054CR  
Mode : b

		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	1373.197	5.06	25.32	40.62	46.55	36.31	74.00	-37.69	Peak
2	3176.198	6.16	31.20	41.67	49.18	44.87	74.00	-29.13	Peak
3	5925.216	10.32	35.03	42.90	48.52	50.97	74.00	-23.03	Peak

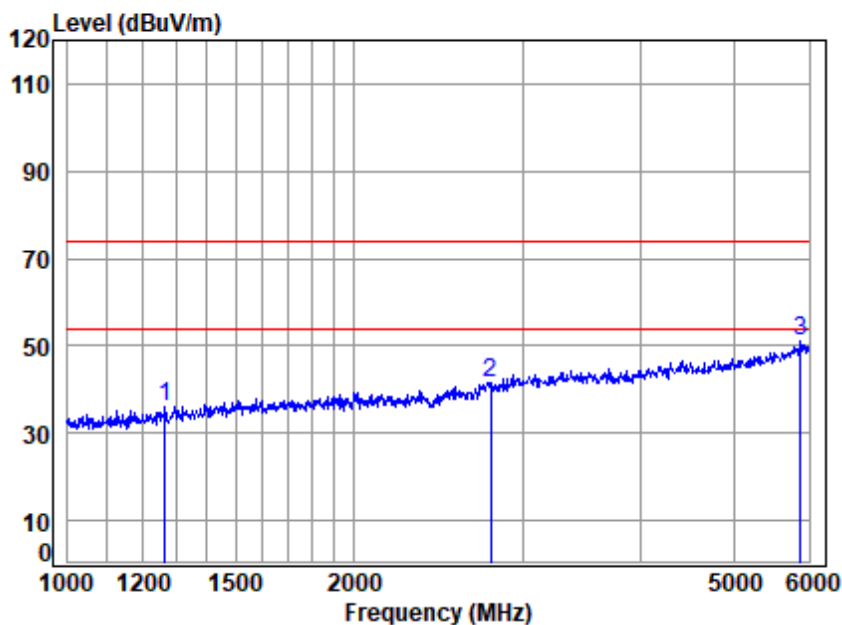


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Mode:c; Polarization:Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 18054CR  
Mode : c

		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	1264.555	4.67	24.87	40.54	46.99	35.99	74.00	-38.01	Peak
2	2776.810	5.83	29.97	41.32	46.96	41.44	74.00	-32.56	Peak
3	5882.902	10.18	34.99	42.94	48.67	50.90	74.00	-23.10	Peak

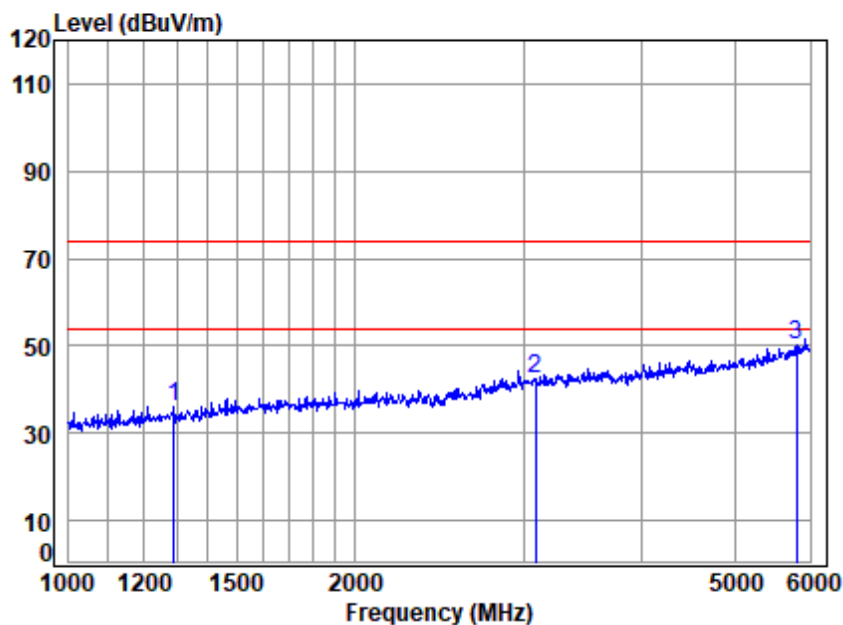


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Mode:c; Polarization:Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 18054CR  
Mode : c

		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	1289.726	4.76	24.98	40.55	46.96	36.15	74.00	-37.85 Peak
2	3091.970	6.07	31.06	41.54	46.91	42.50	74.00	-31.50 Peak
3	5809.577	9.93	34.91	43.00	48.53	50.37	74.00	-23.63 Peak

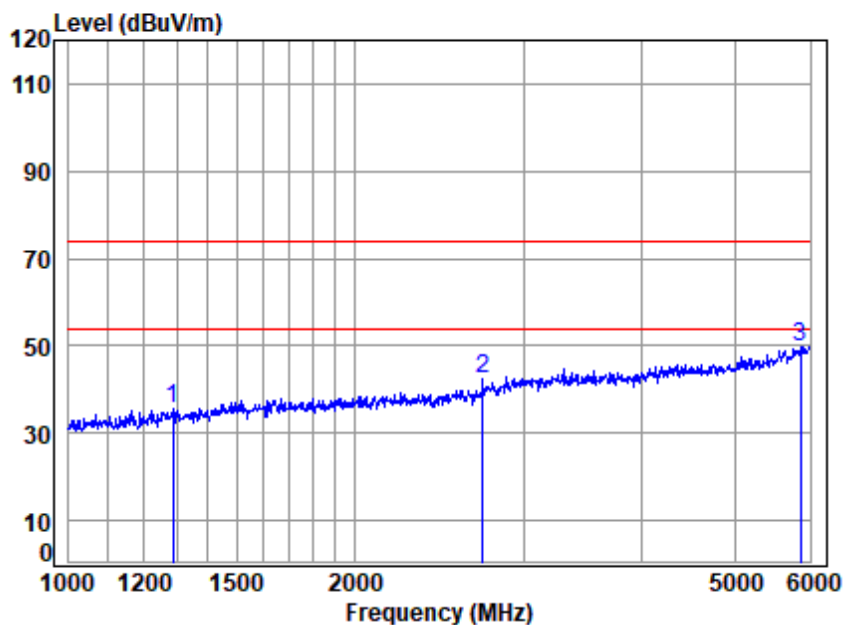


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Mode:d; Polarization:Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 18054CR  
Mode : d

		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	1285.113	4.74	24.96	40.55	46.61	35.76	74.00	-38.24	Peak
2	2717.743	5.78	29.71	41.30	48.31	42.50	74.00	-31.50	Peak
3	5861.858	10.11	34.97	42.95	47.77	49.90	74.00	-24.10	Peak

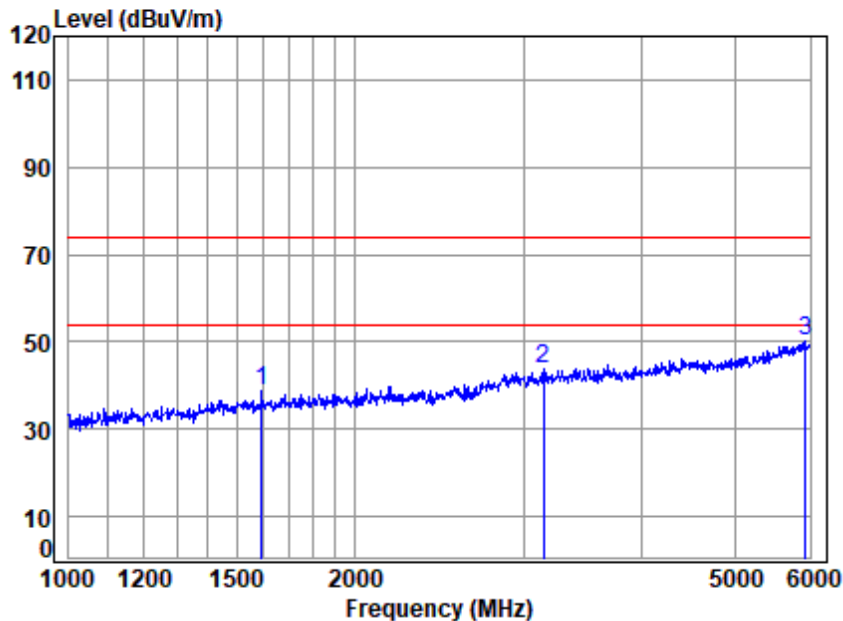


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Mode:d; Polarization:Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 18054CR  
Mode : d

		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	1593.380	5.36	26.22	40.77	48.06	38.87	74.00	-35.13	Peak
2	3147.870	6.13	31.15	41.63	48.04	43.69	74.00	-30.31	Peak
3	5935.842	10.36	35.04	42.89	47.55	50.06	74.00	-23.94	Peak





## 7 Photographs

### 7.1 EUT Test Setup

Please refer to setup photos.

### 7.2 EUT Constructional Details (EUT Photos)

Refer to Appendix A - Photographs of EUT Constructional Details.

- End of the Report -

