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

No. 1 Workshop, M-10, Middle section, Science & Technology Park,
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Email: ee.shenzhen@sgs.com

TEST REPORT

Application No.:	SZEM1703002571RG
Applicant:	Huawei Technologies Co.,Ltd.
Address of Applicant:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Manufacturer:	Huawei Technologies Co.,Ltd.
Address of Manufacturer:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Factory:	Huawei Technologies Co.,Ltd.
Address of Factory:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Equipment Under Test (EUT):	
EUT Name:	Huawei MediaPad T3 10 (MediaPad T3 10 for short)
Model No.:	AGS-W09
Trade mark:	HUAWEI
FCC ID:	QISAGS-W09
Standards:	47 CFR Part 15,Subpart B:2016
Date of Receipt:	2017-04-05
Date of Test:	2017-04-10 to 2017-04-17
Date of Issue:	2017-04-18
Test Result :	**Pass***

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

Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
01		2017-04-18		Original

Authorized for issue by:				
Tested By		Gray Gao		2017-04-17
		Gray Gao /Project Engineer		**Date**
Checked By		Eric Fu		2017-04-18
		Eric Fu /Reviewer		**Date**

2 Test Summary

Emission Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Radiated Disturbance (30MHz-1GHz)	47 CFR Part 15,Subpart B:2016	ANSI C63.4	Class B	Pass
Conducted Disturbance at Mains Terminals (150kHz-30MHz)	47 CFR Part 15,Subpart B:2016	ANSI C63.4	Class B	Pass
Radiated Disturbance (above 1GHz)	47 CFR Part 15,Subpart B:2016	ANSI C63.4	Class B	Pass

InternalSource	UpperFrequency
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

3 Contents

4 General Information

4.1 Details of E.U.T.

Power supply: Model No. : HW-050100U01
AC input: 100-240V 50/60Hz,0.2A
DC output: 5V 1A

Cable: USB cable: 100cm unshielded.

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction emission	3.0dB (150kHz to 30MHz)
2	Radiated emission	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-6GHz)
3	Temperature test	1℃
4	Humidity test	3%

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 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

• **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

• **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Radiated Disturbance(30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2016-05-13	2017-05-13
EMI Test Receiver (9k-3GHz)	Rohde & Schwarz	ESR	SEM004-03	2016-04-25	2017-04-25
Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-29
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2016-07-06	2017-07-06

Conducted Disturbance at Mains Terminals(150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2016-05-13	2017-05-13
LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09
LISN	ETS-LINDGREN	3816/2	SEM007-02	2016-04-25	2017-04-25
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25

Radiated Disturbance(above 1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2016-05-13	2017-05-13
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-09	2016-07-19	2017-07-19
Horn Antenna(1-18GHz)	Rohde & Schwarz	HF907	SEM003-06	2015-06-14	2018-06-14
Low Noise Amplifier	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2016-10-09	2017-10-09

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2016-10-12	2017-10-12
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2016-05-18	2017-05-18

6 Emission Test Results

6.1 Radiated Disturbance(30MHz-1GHz)

Test Requirement:	47 CFR Part 15,Subpart B:2016
Test Method:	ANSI C63.4
Frequency Range:	30MHz to 1GHz
Measurement Distance:	10m
Limit:	
30MHz -88MHz	29.5(dBμV/m) quasi-peak
88MHz-216MHz	33.1(dBμV/m) quasi-peak
216MHz-960MHz	35.6(dBμV/m) quasi-peak
960MHz-1000MHz	43.5(dBμV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

6.1.1 E.U.T. Operation

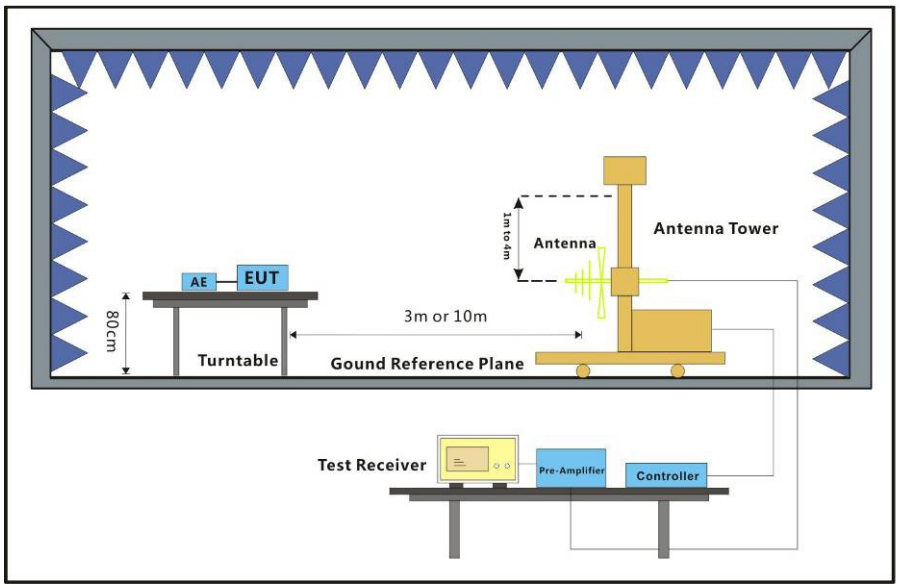
Operating Environment:

Temperature: 24.0 °C Humidity: 54 % RH Atmospheric Pressure: 1020 mbar

Pretest these mode to find the worst case:
a: playing MP4 + earphone + battery + adapter
b: camera(Front) + earphone + battery + adapter
c: camera(Rear) + earphone + battery + adapter
d: Transfer data between the EUT and the PC

The worst case for final test:
b: camera(Front) + earphone + battery + adapter
d: Transfer data between the EUT and the PC

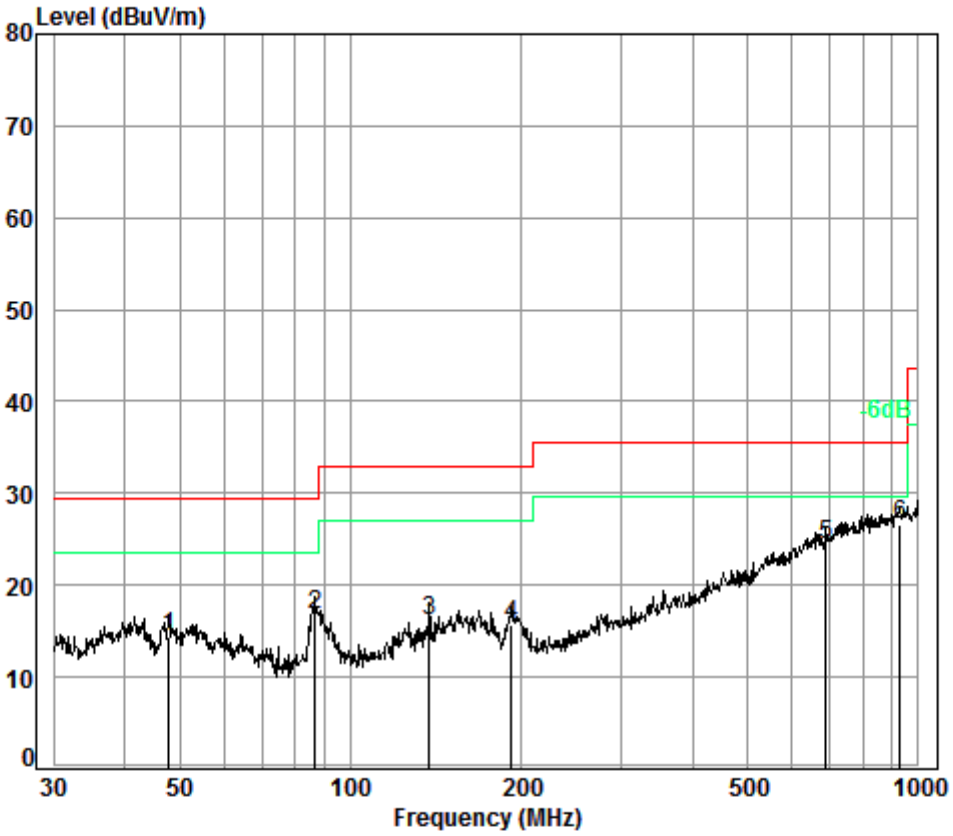
6.1.2 Test Setup Diagram



6.1.3 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.

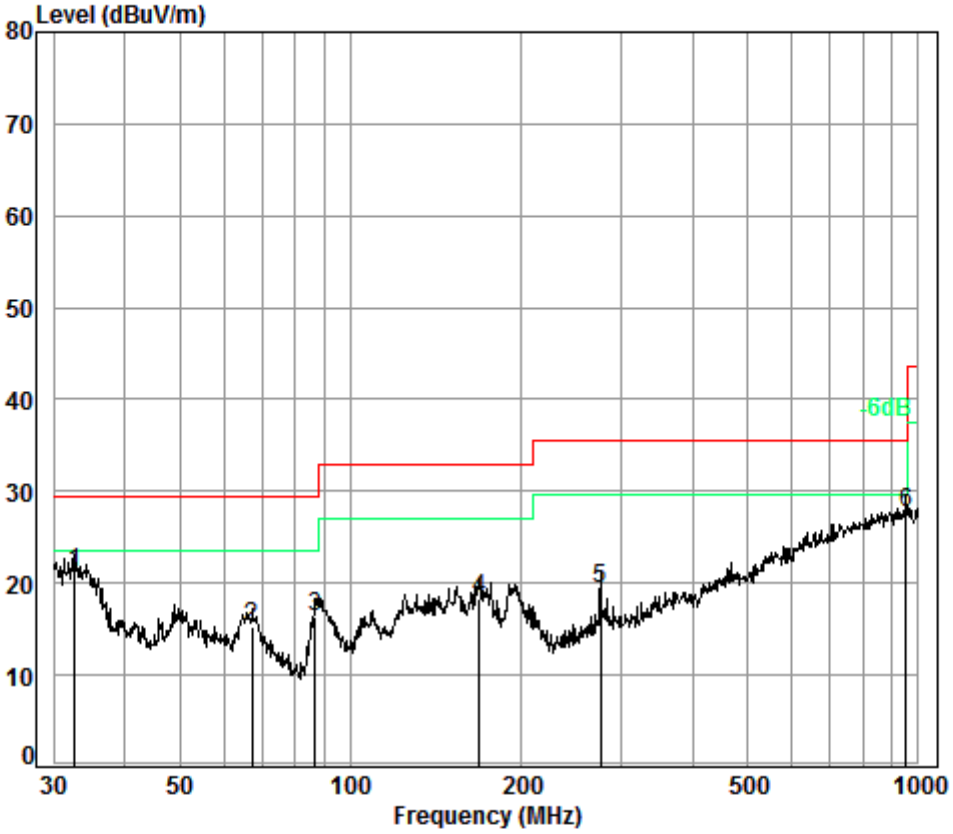
Mode:b; Polarization:Horizontal



Condition: 10m HORIZONTAL
Job No. : 02571RG
Test Mode: b

	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	47.99	6.86	12.83	33.00	27.77	14.46	29.50	-15.04
2	86.50	7.17	8.64	32.84	33.71	16.68	29.50	-12.82
3	137.90	7.39	12.61	32.75	28.85	16.10	33.00	-16.90
4	192.42	7.56	9.67	32.71	31.07	15.59	33.00	-17.41
5	687.15	9.12	19.97	32.60	27.86	24.35	35.60	-11.25
6 pp	929.01	9.52	22.59	32.50	26.97	26.58	35.60	-9.02

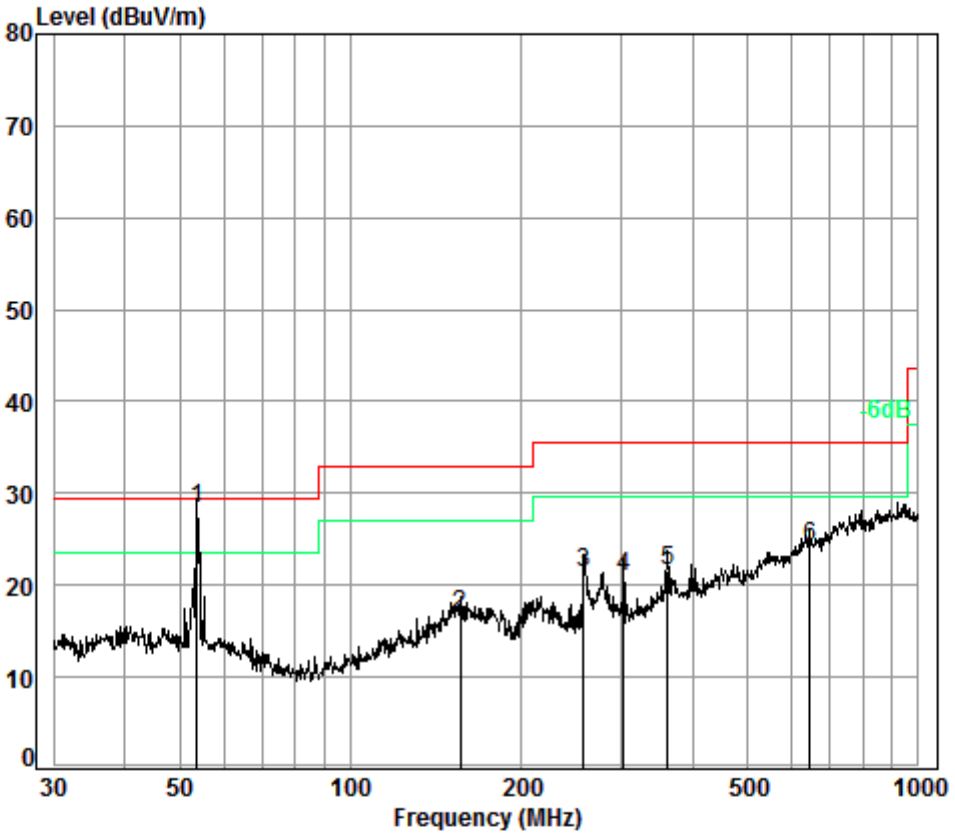
Mode:b; Polarization:Vertical



Condition: 10m VERTICAL
Job No. : 02571RG
Test Mode: b

	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	32.75	6.70	12.57	32.97	34.83	21.13	29.50	-8.37
2	67.20	6.96	10.58	32.91	30.62	15.25	29.50	-14.25
3	86.50	7.17	8.64	32.84	33.43	16.40	29.50	-13.10
4	169.01	7.50	12.51	32.72	31.12	18.41	33.00	-14.59
5	276.12	7.98	12.04	32.62	31.92	19.32	35.60	-16.28
6 pp	952.09	9.58	22.74	32.50	27.87	27.69	35.60	-7.91

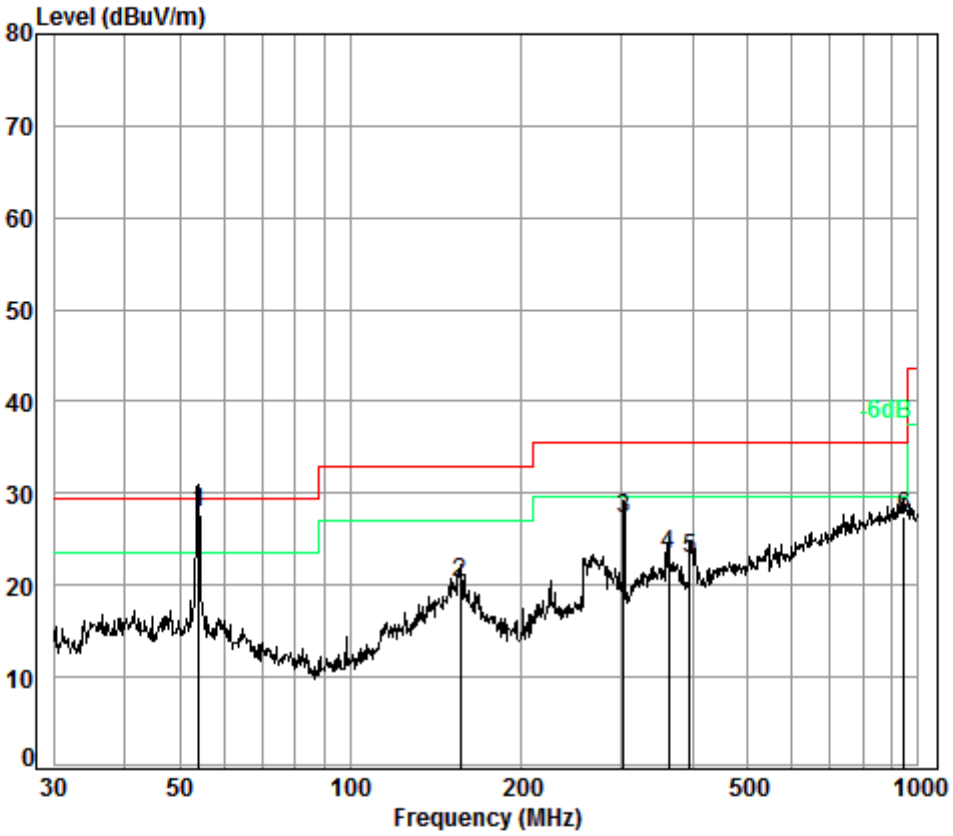
Mode:d; Polarization:Horizontal



Condition: 10m HORIZONTAL
Job No. : 02571RG
Test Mode: d

	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 pp	53.75	6.98	12.47	32.98	41.90	28.37	29.50	-1.13
2	155.91	7.48	13.40	32.74	28.69	16.83	33.00	-16.17
3	257.42	7.89	11.42	32.64	34.74	21.41	35.60	-14.19
4	302.48	8.06	12.73	32.60	32.70	20.89	35.60	-14.71
5	361.71	8.30	14.10	32.60	31.86	21.66	35.60	-13.94
6	645.12	9.01	19.48	32.60	28.27	24.16	35.60	-11.44

Mode:d; Polarization:Vertical



Condition: 10m VERTICAL
Job No. : 02571RG
Test Mode: d

	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 pp	54.10	6.98	12.44	32.98	41.51	27.95	29.50	-1.55
2	156.46	7.48	13.40	32.74	32.18	20.32	33.00	-12.68
3	302.48	8.06	12.73	32.60	38.98	27.17	35.60	-8.43
4	362.98	8.30	14.13	32.60	33.39	23.22	35.60	-12.38
5	396.24	8.30	14.79	32.60	32.33	22.82	35.60	-12.78
6	942.13	9.56	22.68	32.50	27.73	27.47	35.60	-8.13

6.2 Conducted Disturbance at Mains Terminals(150kHz-30MHz)

Test Requirement:	47 CFR Part 15,Subpart B:2016
Test Method:	ANSI C63.4
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

6.2.1 E.U.T. Operation

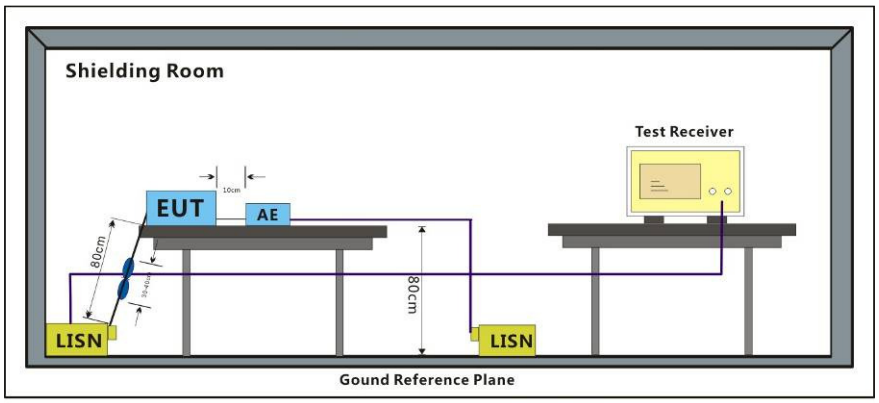
Operating Environment:

Temperature: 25.0 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

Pretest these mode to find the worst case:
a: playing MP4 + earphone + battery + adapter
b: camera(Front) + earphone + battery + adapter
c: camera(Rear) + earphone + battery + adapter
d: Transfer data between the EUT and the PC

The worst case for final test:
b: camera(Front) + earphone + battery + adapter
d: Transfer data between the EUT and the PC

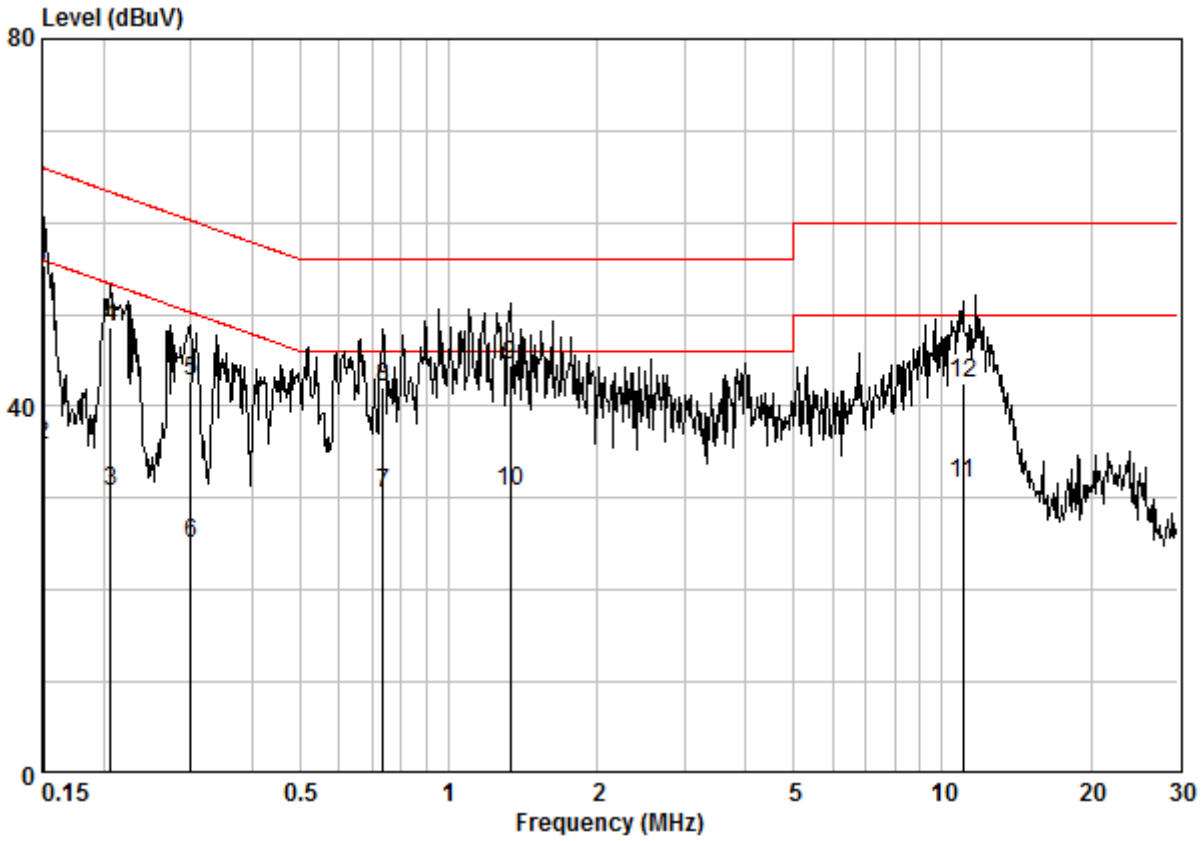
6.2.2 Test Setup Diagram



6.2.3 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.

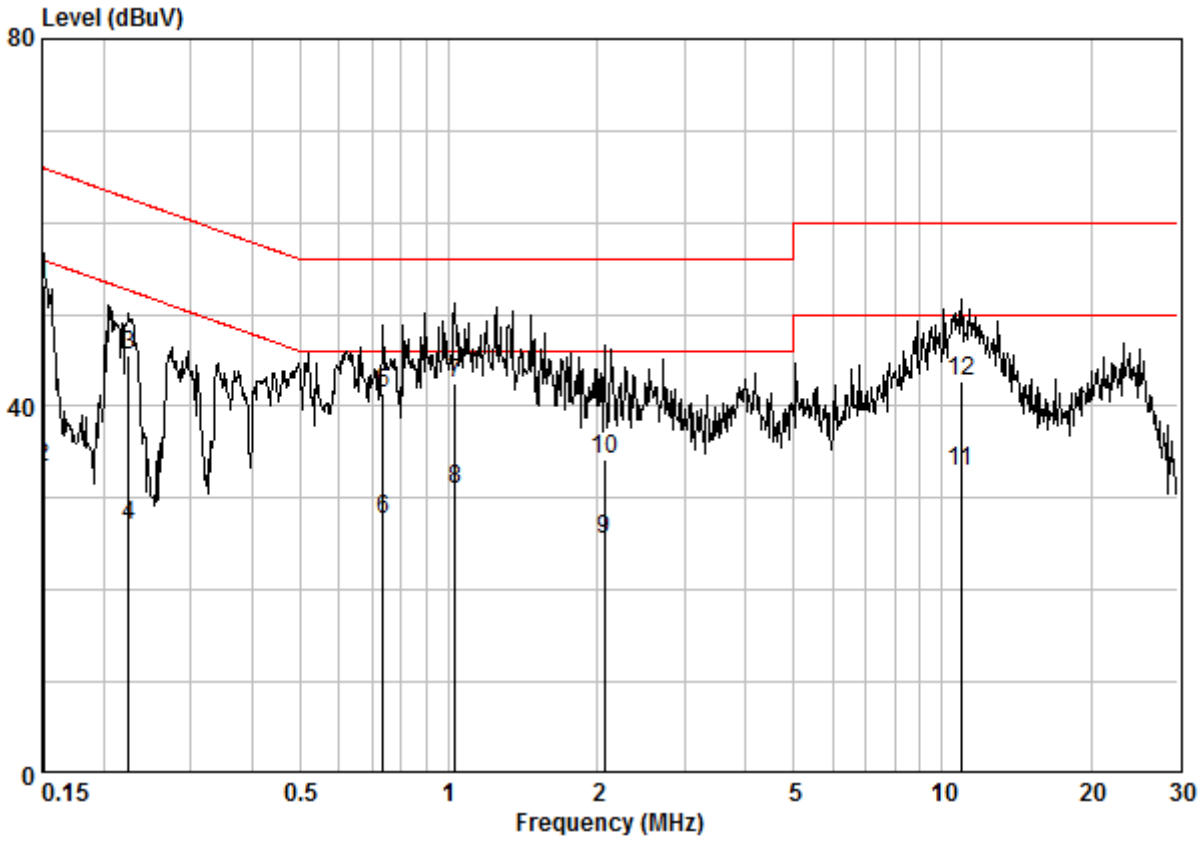
Mode:b; Line:Live Line



Site : Shielding Room
Condition : CE LINE
Job No. : 02571RG
Test Mode : b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.15080	0.02	9.64	45.81	55.47	65.96	-10.48	QP
2	0.15080	0.02	9.64	26.08	35.74	55.96	-20.22	AVERAGE
3	0.20614	0.02	9.64	21.03	30.69	53.36	-22.67	AVERAGE
4	0.20614	0.02	9.64	38.94	48.60	63.36	-14.76	QP
5	0.30028	0.02	9.64	33.12	42.78	60.24	-17.45	QP
6	0.30028	0.02	9.64	15.47	25.13	50.24	-25.11	AVERAGE
7	0.73519	0.03	9.65	20.82	30.50	46.00	-15.50	AVERAGE
8	0.73519	0.03	9.65	32.34	42.01	56.00	-13.99	QP
9	1.331	0.03	9.66	34.68	44.37	56.00	-11.63	QP
10	1.331	0.03	9.66	21.15	30.84	46.00	-15.16	AVERAGE
11	11.021	0.14	9.88	21.58	31.60	50.00	-18.40	AVERAGE
12	11.021	0.14	9.88	32.48	42.50	60.00	-17.50	QP

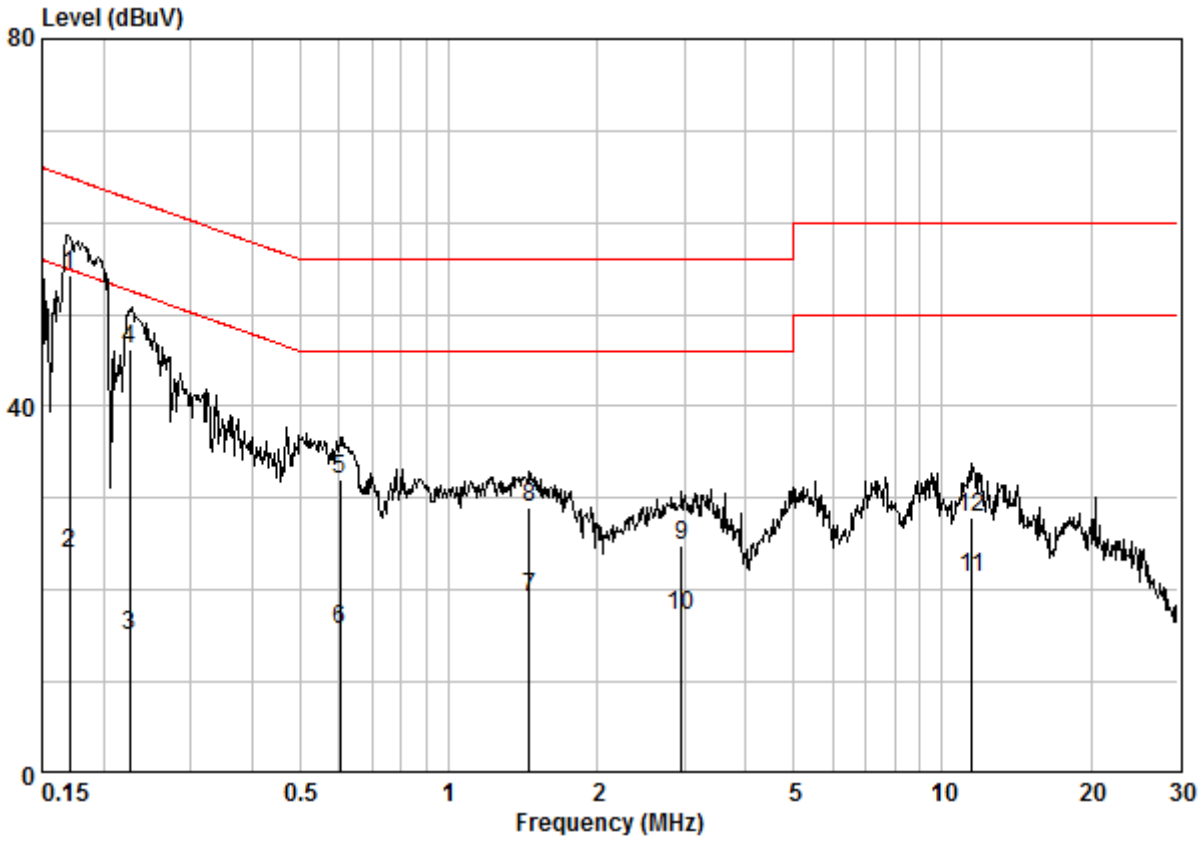
Mode:b; Line:Neutral Line



Site : Shielding Room
Condition : CE NEUTRAL
Job No. : 02571RG
Test Mode : b

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15080	0.02	9.64	43.60	53.26	65.96	-12.70	QP
2	0.15080	0.02	9.64	23.65	33.31	55.96	-22.65	AVERAGE
3	0.22437	0.02	9.63	35.92	45.57	62.66	-17.09	QP
4	0.22437	0.02	9.63	17.33	26.98	52.66	-25.68	AVERAGE
5	0.73519	0.03	9.64	31.80	41.47	56.00	-14.53	QP
6	0.73519	0.03	9.64	18.07	27.74	46.00	-18.26	AVERAGE
7	1.032	0.03	9.64	32.89	42.56	56.00	-13.44	QP
8	1.032	0.03	9.64	21.38	31.05	46.00	-14.95	AVERAGE
9	2.066	0.03	9.66	15.73	25.42	46.00	-20.58	AVERAGE
10	2.066	0.03	9.66	24.55	34.24	56.00	-21.76	QP
11	10.905	0.14	9.87	22.82	32.83	50.00	-17.17	AVERAGE
12	10.905	0.14	9.87	32.67	42.68	60.00	-17.32	QP

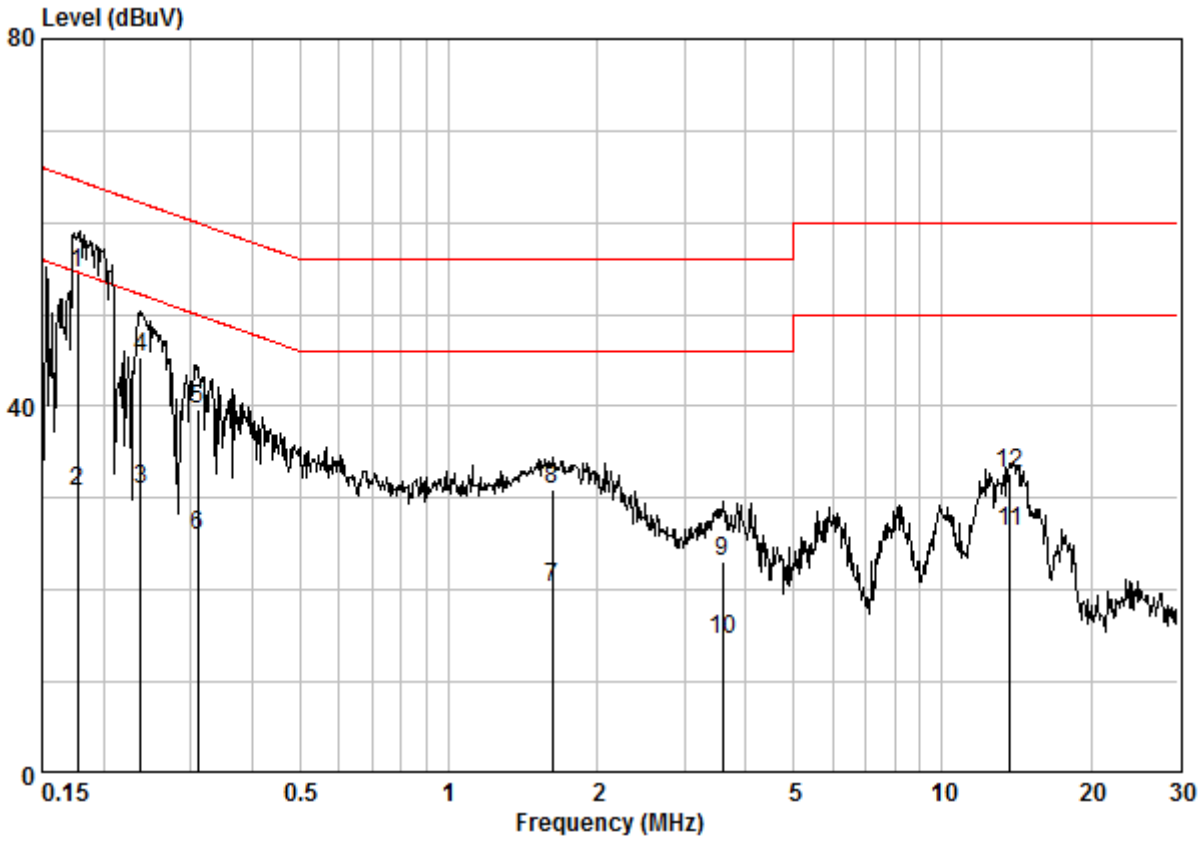
Mode:d; Line:Live Line



Site : Shielding Room
Condition : CE LINE
Job No. : 02571RG
Test Mode : d

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.17034	0.02	9.64	44.66	54.32	64.94	-10.63	QP
2	0.17034	0.02	9.64	14.34	24.00	54.94	-30.95	AVERAGE
3	0.22556	0.02	9.64	5.28	14.94	52.61	-37.67	AVERAGE
4	0.22556	0.02	9.64	36.57	46.23	62.61	-16.38	QP
5	0.60112	0.02	9.65	22.30	31.97	56.00	-24.03	QP
6	0.60112	0.02	9.65	6.04	15.72	46.00	-30.28	AVERAGE
7	1.456	0.03	9.66	9.43	19.12	46.00	-26.88	AVERAGE
8	1.456	0.03	9.66	19.20	28.89	56.00	-27.11	QP
9	2.962	0.03	9.69	15.09	24.80	56.00	-31.20	QP
10	2.962	0.03	9.69	7.41	17.13	46.00	-28.87	AVERAGE
11	11.498	0.15	9.89	11.41	21.44	50.00	-28.56	AVERAGE
12	11.498	0.15	9.89	17.88	27.92	60.00	-32.08	QP

Mode:d; Line:Neutral Line



Site : Shielding Room
Condition : CE NEUTRAL
Job No. : 02571RG
Test Mode : d

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.17678	0.02	9.63	44.91	54.56	64.64	-10.07	QP
2	0.17678	0.02	9.63	21.15	30.80	54.64	-23.83	AVERAGE
3	0.23784	0.02	9.63	21.21	30.86	52.17	-21.31	AVERAGE
4	0.23784	0.02	9.63	35.65	45.30	62.17	-16.87	QP
5	0.30998	0.02	9.63	29.93	39.58	59.97	-20.39	QP
6	0.30998	0.02	9.63	16.20	25.85	49.97	-24.12	AVERAGE
7	1.619	0.03	9.65	10.69	20.37	46.00	-25.63	AVERAGE
8	1.619	0.03	9.65	21.32	31.00	56.00	-25.00	QP
9	3.584	0.02	9.68	13.44	23.14	56.00	-32.86	QP
10	3.584	0.02	9.68	4.92	14.63	46.00	-31.37	AVERAGE
11	13.695	0.15	9.94	16.30	26.39	50.00	-23.61	AVERAGE
12	13.695	0.15	9.94	22.65	32.74	60.00	-27.26	QP

6.3 Radiated Disturbance(above 1GHz)

Test Requirement:	47 CFR Part 15,Subpart B:2016
Test Method:	ANSI C63.4
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

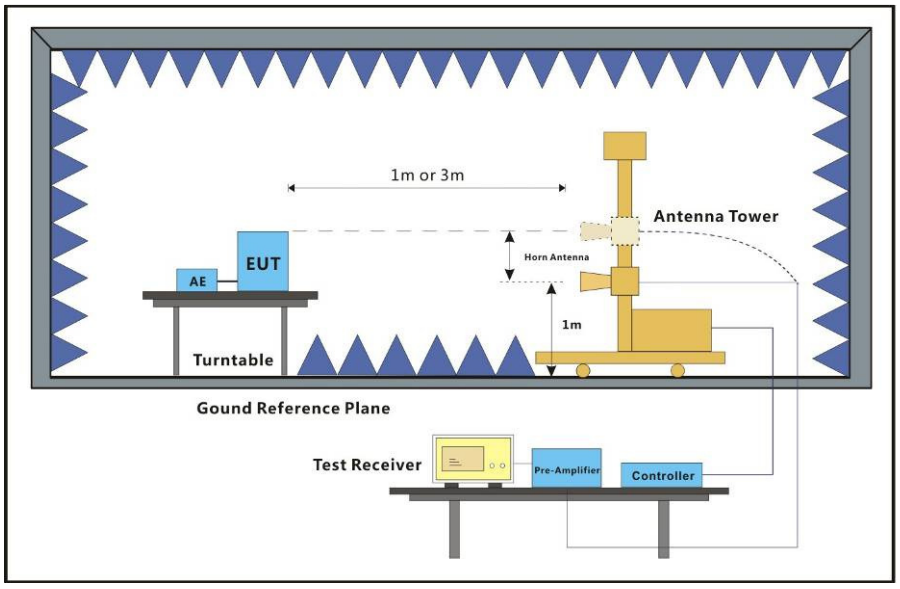
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 58 % RH Atmospheric Pressure: 1020 mbar

Pretest these mode to find the worst case:	a: playing MP4 + earphone + battery + adapter b: camera(Front) + earphone + battery + adapter c: camera(Rear) + earphone + battery + adapter d: Transfer data between the EUT and the PC
The worst case for final test:	b: camera(Front) + earphone + battery + adapter d: Transfer data between the EUT and the PC

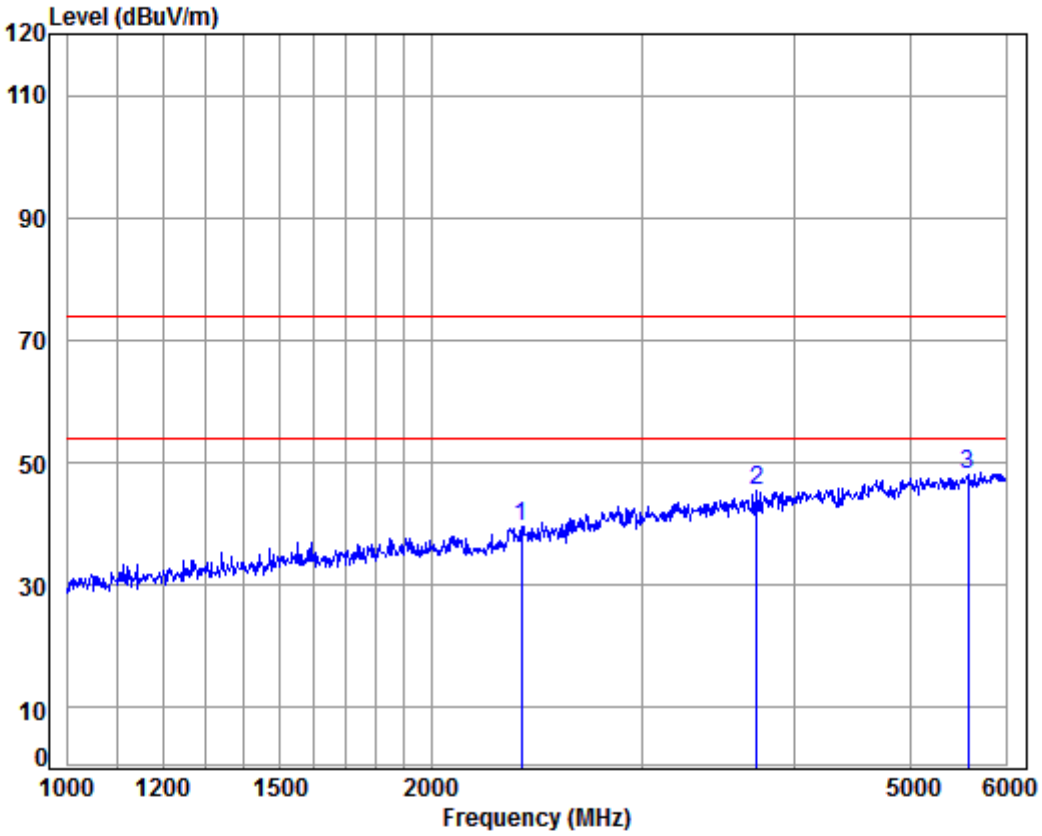
6.3.2 Test Setup Diagram



6.3.3 Measurement Data

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

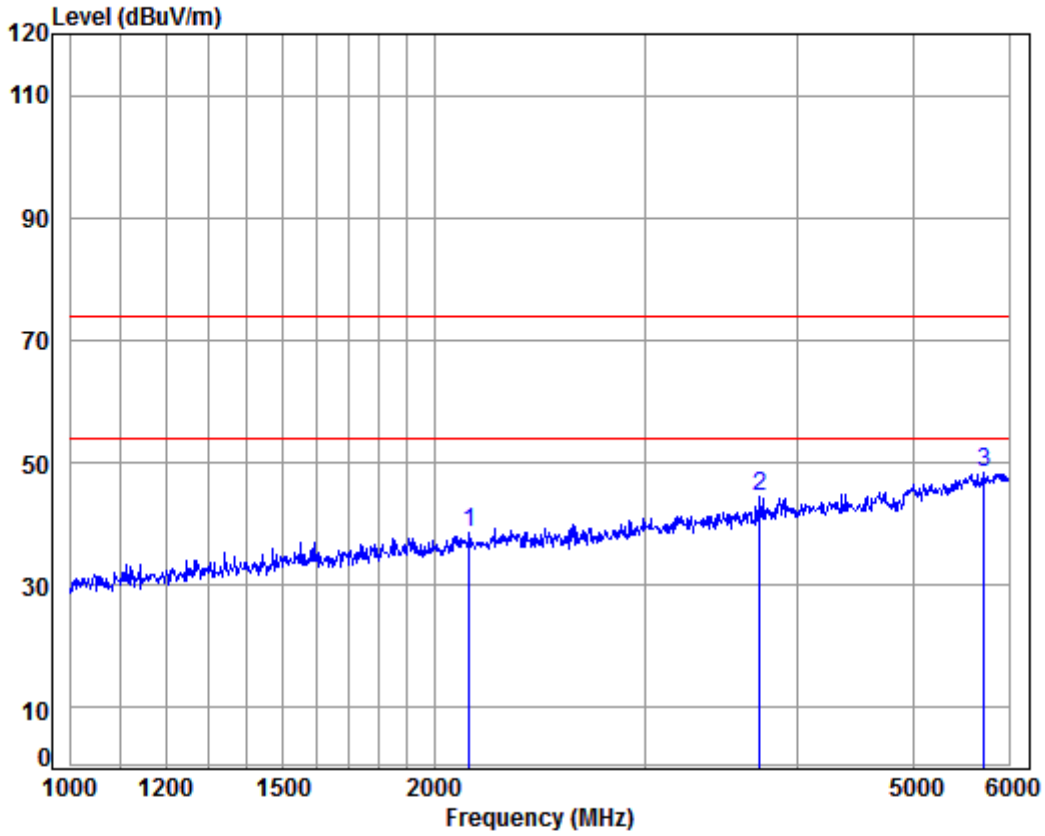
Mode:b; Polarization:Horizontal



Condition: 3m Horizontal
Job No: : 02571RG
Mode: : b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2376.003	5.33	29.04	37.96	43.31	39.72	74.00	-34.28	Peak
2	3725.315	6.49	32.85	37.97	43.97	45.34	74.00	-28.66	Peak
3 pp	5585.026	8.34	34.45	38.38	43.60	48.01	74.00	-25.99	Peak

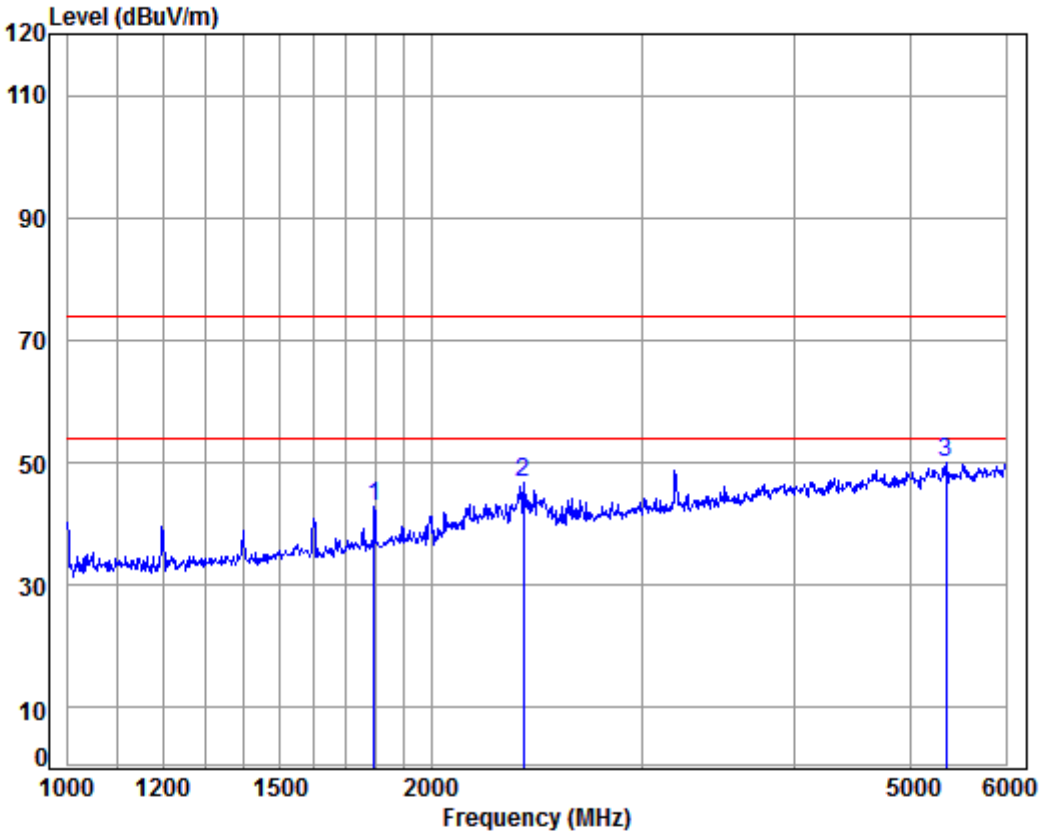
Mode:b; Polarization:Vertical



Condition: 3m Vertical
Job No: : 02571RG
Mode: : b

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2141.481	5.14	28.29	37.99	43.25	38.69	74.00	-35.31	Peak
2	3725.315	6.49	32.85	37.97	42.97	44.34	74.00	-29.66	Peak
3 pp	5726.896	8.48	34.54	38.35	43.59	48.26	74.00	-25.74	Peak

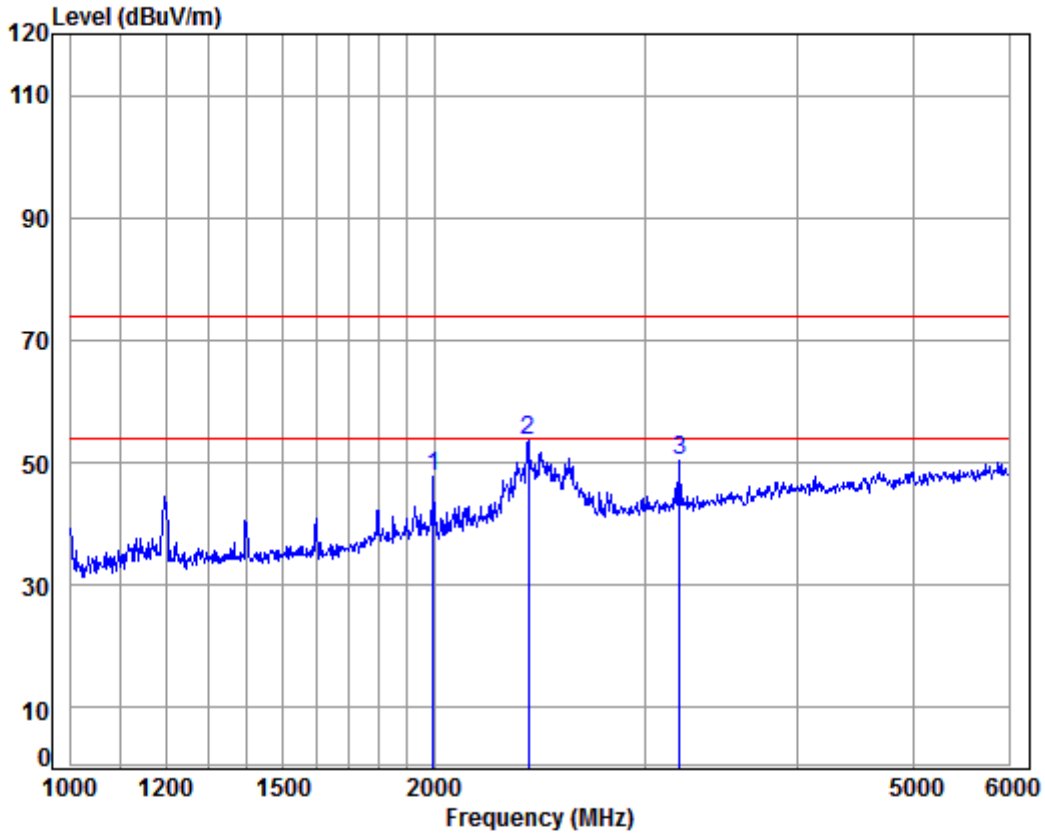
Mode:d; Polarization:Horizontal



Condition: 3m Horizontal
Job No: : 02571RG
Mode: : d

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1796.617	4.81	27.05	38.02	49.06	42.90	74.00	-31.10	Peak
2	2388.809	5.34	29.07	37.96	50.40	46.85	74.00	-27.15	Peak
3 pp	5349.948	8.18	34.43	38.43	45.98	50.16	74.00	-23.84	Peak

Mode:d; Polarization:Vertical



Condition: 3m Vertical
Job No: : 02571RG
Mode: : d

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1996.946	5.01	27.79	38.00	53.09	47.89	74.00	-26.11	Peak
2 pp	2397.385	5.34	29.10	37.96	57.28	53.76	74.00	-20.24	Peak
3	3199.044	6.08	31.68	37.92	50.53	50.37	74.00	-23.63	Peak

7 Photographs

7.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1703002571RG.