

TEST REPORT

Application No.:	SZEM2006005197CR
Applicant:	DT Research. Inc.
Address of Applicant:	3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan.
Manufacturer:	DT Research. Inc.
Address of Manufacturer:	2000 Concourse Drive. San Jose. CA 95131. U.S.A
Factory:	DT Research. Inc. Taiwan Branch
Address of Factory:	6F., No.36 Wuquan 7th Rd., Wugu Dist. New Taipei City 248 Taiwan
Equipment Under Test (EUT):	
EUT Name:	Rugged Tablet
Model No.:	DT313Yxx (X=blank, A~Z or 0~9) *
*	Please refer to section 2 of this report which indicates which model actually tested and which were electrically identical.
Trade Mark:	DT Research. Inc.
Standard(s) :	47 CFR Part 15, Subpart B
Date of Receipt:	2020-06-16
Date of Test:	2020-06-19 to 2020-07-22
Date of Issue:	2020-07-25
Test Result:	Pass*

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

Keny. Xu
Keny Xu
EMC Laboratory Manager

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-07-25		Original

Authorized for issue by:			
			
		Edison Li /Project Engineer	
			
		Eric Fu /Reviewer	

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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

*: the tests were requested as per applicant's requirement.

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

Remark:

Model No.: DT313Yxx (X=blank, A~Z or 0~9)

Only the model DT313Y was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No..

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4 General Information

4.1 Details of E.U.T.

Power Supply:	AC Adapter Model: A17-065N1A Input: AC 100-240V, 50/60Hz, 1.8A Output: DC 20V, 3.25A/DC15V, 3A/DC9V, 2A/DC5V, 2A
	Rechargeable Lithium-Ion Polymer Battery Model: ACC-006-60K(3ICP9/36/115) Rated Capacity: 5400mAh Voltage: DC 11.4V Watt-Hour: 61.56Wh Max Charge Voltage: 13.05V
	Wall Cradle: ACC-WM210R-313Y Desktop Cradle: ACC-DC210-313Y Keyboard Cradle: ACC-KB13Y-US1
Test Voltage:	AC 120V, 60Hz
Cable:	DC cable: 180cm unshielded Type-C cable: 180cm unshielded AC cable: 175cm unshielded
Internal Source:	More than 108MHz

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Earphone	PHILIPS	SHE6000	REF. No.SEA1000
HDMI Cable	Apple	MC838FE/B	REF. No.SEA0900
Network Cable	SGS	N/A	REF. No.SEA1100
Router	NETGEAR	DGN2200	REF. No.SEA2200
U-disk	Sandisk	SDCZ60-016G	REF. No.SEA0100

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 °C
4	Humidity test	± 3%



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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

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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	2020-07-10	2021-07-09
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019-09-24	2020-09-23
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23

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	2020-07-10	2021-07-09
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-15	2019-12-16	2020-12-15
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31

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	2020-07-10	2021-07-09
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23

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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	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

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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: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case: a: Idle mode, Keep the EUT at standby mode.

b: Charging mode, keep EUT in charging with Adapter, earphone.

c: LTE band 2+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

d: LTE band 4+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

e: LTE band 5+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

f: LTE band 12+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

g: LTE band 13+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

h: LTE band 14+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

i: Telecom Idle + BT+ WLAN + GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

j: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + front camera + LAN + Keyboard Cradle.

k: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + back camera + LAN + Desktop Cradle.

l: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + back camera + LAN + Wall Cradle.

c: LTE band 2+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

k: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + back camera + LAN + Desktop Cradle.

l: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + back camera + LAN + Wall Cradle.

The worst case for final test:



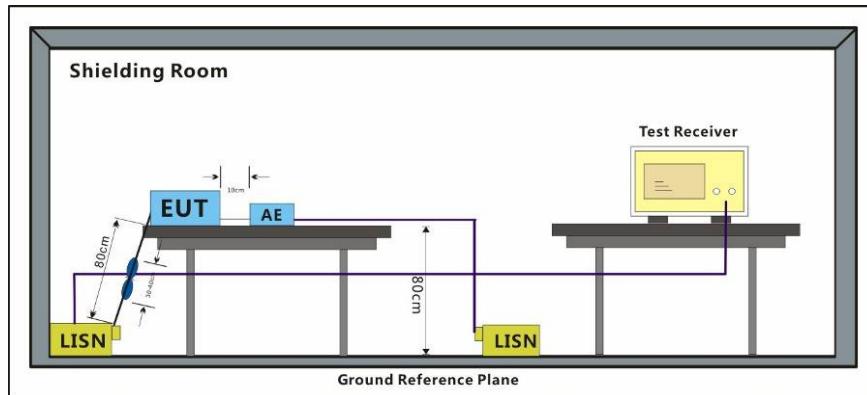
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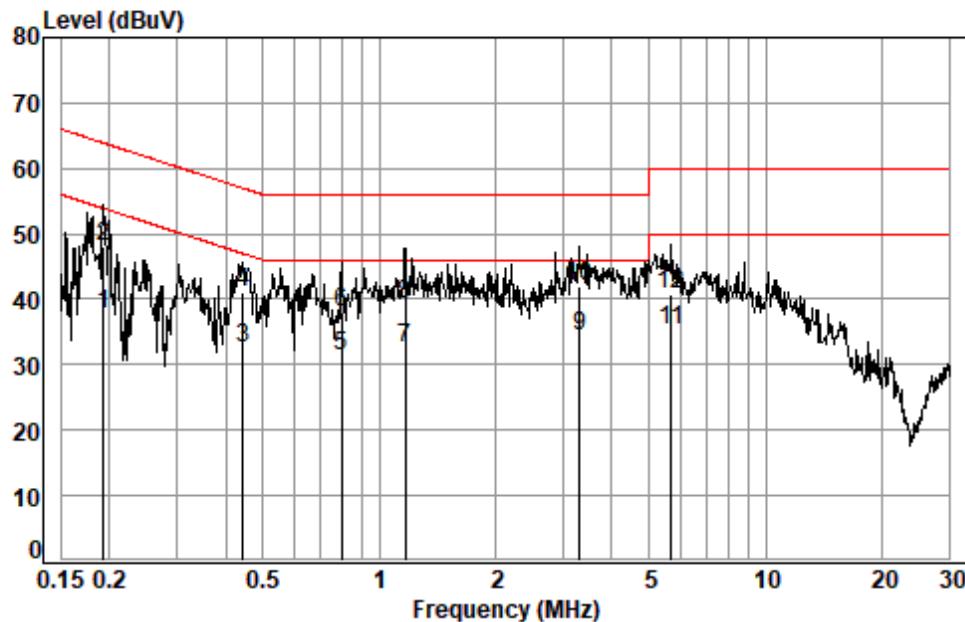
6.1.2 Test Setup Diagram**6.1.3 Measurement Data**

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.

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Mode:c; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 05197CR
Test mode: c

Freq	Cable	LISN	Read	Limit		Over	Remark
	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.1934	0.02	9.68	28.05	37.75	53.89	-16.14 Average
2	0.1934	0.02	9.68	38.35	48.05	63.89	-15.84 QP
3	0.4444	0.06	9.68	22.91	32.65	46.98	-14.33 Average
4	0.4444	0.06	9.68	31.36	41.10	56.98	-15.88 QP
5	0.8002	0.08	9.70	21.59	31.37	46.00	-14.63 Average
6	0.8002	0.08	9.70	28.29	38.07	56.00	-17.93 QP
7	1.1657	0.10	9.71	22.71	32.52	46.00	-13.48 Average
8	1.1657	0.10	9.71	29.52	39.33	56.00	-16.67 QP
9	3.2930	0.16	9.77	24.29	34.22	46.00	-11.78 Average
10	3.2930	0.16	9.77	31.95	41.88	56.00	-14.12 QP
11	5.7135	0.17	9.86	25.23	35.26	50.00	-14.74 Average
12	5.7135	0.17	9.86	30.77	40.80	60.00	-19.20 QP

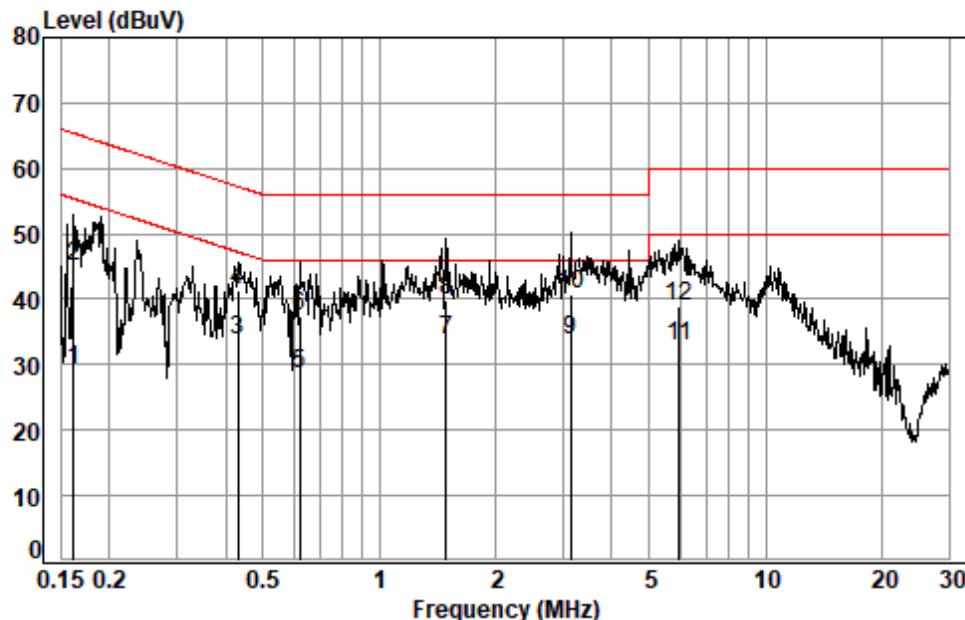
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Mode:c; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05197CR
Test mode: c

Freq	Cable	LISN	Read	Limit		Over	Remark
	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.1615	0.01	9.66	19.39	29.06	55.38	-26.32 Average
2	0.1615	0.01	9.66	35.31	44.98	65.38	-20.40 QP
3	0.4305	0.05	9.67	24.15	33.87	47.24	-13.37 Average
4	0.4305	0.05	9.67	31.80	41.52	57.24	-15.72 QP
5	0.6238	0.07	9.68	18.70	28.45	46.00	-17.55 Average
6	0.6238	0.07	9.68	27.81	37.56	56.00	-18.44 QP
7	1.4874	0.13	9.71	24.07	33.91	46.00	-12.09 Average
8	1.4874	0.13	9.71	29.99	39.83	56.00	-16.17 QP
9	3.1231	0.16	9.77	23.69	33.62	46.00	-12.38 Average
10	3.1231	0.16	9.77	30.76	40.69	56.00	-15.31 QP
11	5.9925	0.17	9.91	22.82	32.90	50.00	-17.10 Average
12	5.9925	0.17	9.91	28.72	38.80	60.00	-21.20 QP

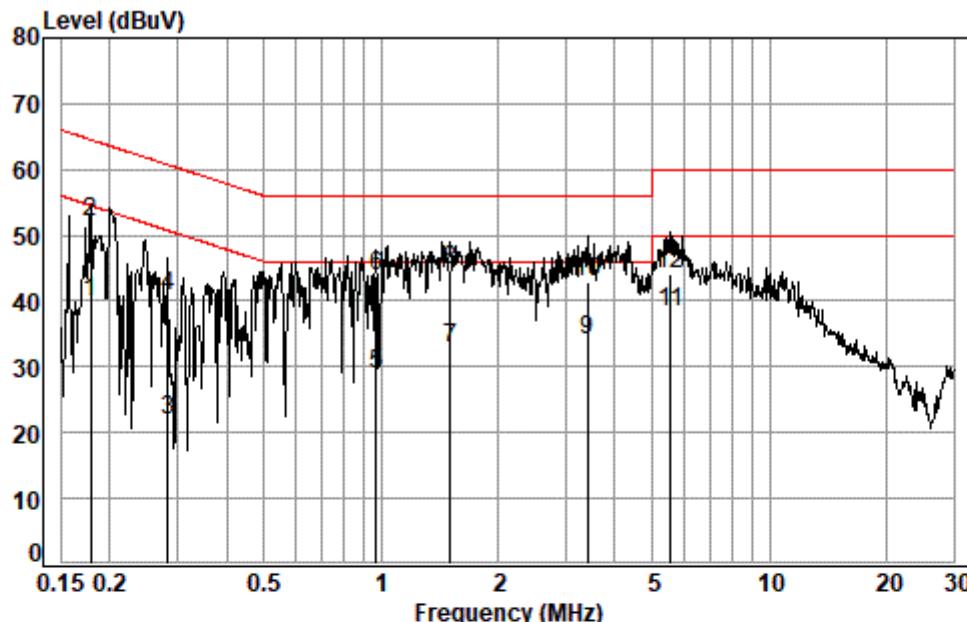
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Mode:k; Line:Live Line



Site : Shielding Room

Condition: Line

Job No. : 05197CR

Test mode: k

Freq	Cable Loss	LISN Factor	Read	Limit	Over	Remark
			Level			
MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1787	0.02	9.68	30.20	39.90	54.55 -14.65 Average
2	0.1787	0.02	9.68	42.30	52.00	64.55 -12.55 QP
3	0.2818	0.04	9.68	12.28	22.00	50.76 -28.76 Average
4	0.2818	0.04	9.68	31.00	40.72	60.76 -20.04 QP
5	0.9735	0.09	9.70	19.21	29.00	46.00 -17.00 Average
6	0.9735	0.09	9.70	33.97	43.76	56.00 -12.24 QP
7	1.5113	0.13	9.72	22.89	32.74	46.00 -13.26 Average
8	1.5113	0.13	9.72	34.81	44.66	56.00 -11.34 QP
9	3.3994	0.16	9.77	24.20	34.13	46.00 -11.87 Average
10	3.3994	0.16	9.77	32.85	42.78	56.00 -13.22 QP
11	5.5641	0.17	9.85	28.19	38.21	50.00 -11.79 Average
12	5.5641	0.17	9.85	34.04	44.06	60.00 -15.94 QP

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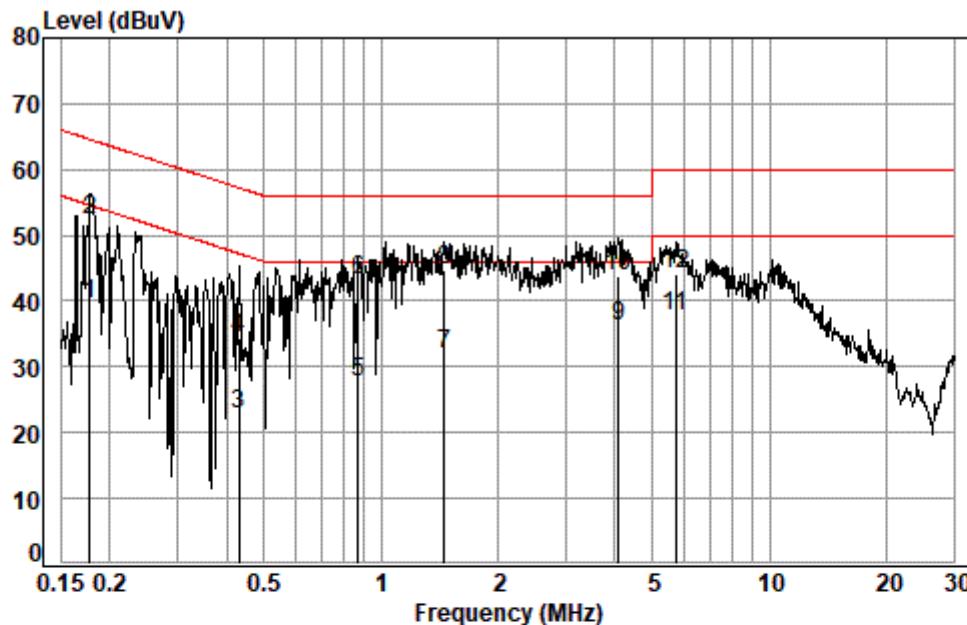
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Mode:k; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05197CR
Test mode: k

Freq	Cable	LISN	Read	Limit	Over	Remark	
	Loss	Factor	Level				
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1777	0.02	9.66	29.89	39.57	54.59	-15.02 Average
2	0.1777	0.02	9.66	42.53	52.21	64.59	-12.38 QP
3	0.4305	0.05	9.67	13.17	22.89	47.24	-24.35 Average
4	0.4305	0.05	9.67	24.61	34.33	57.24	-22.91 QP
5	0.8710	0.08	9.69	18.03	27.80	46.00	-18.20 Average
6	0.8710	0.08	9.69	33.47	43.24	56.00	-12.76 QP
7	1.4562	0.13	9.71	22.03	31.87	46.00	-14.13 Average
8	1.4562	0.13	9.71	34.74	44.58	56.00	-11.42 QP
9	4.0920	0.16	9.80	26.35	36.31	46.00	-9.69 Average
10	4.0920	0.16	9.80	33.85	43.81	56.00	-12.19 QP
11	5.7438	0.17	9.89	27.62	37.68	50.00	-12.32 Average
12	5.7438	0.17	9.89	33.98	44.04	60.00	-15.96 QP

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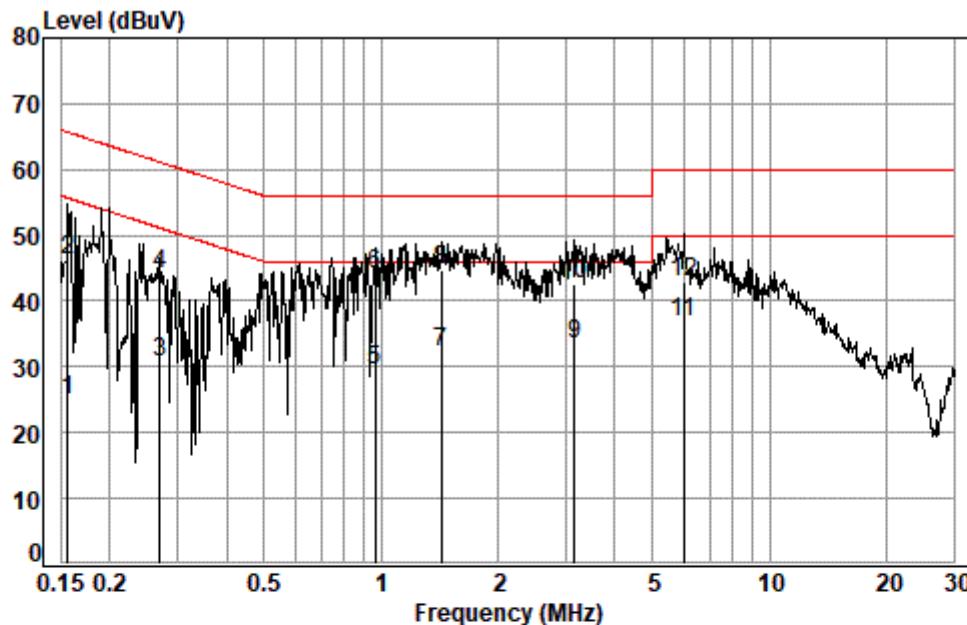
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Mode:I; Line:Live Line



Site : Shielding Room
Condition: Line
Job No. : 05197CR
Test mode: 1

Freq	Cable	LISN	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	
1	0.1565	0.01	9.68	15.16	24.85	55.65 -30.80 Average
2	0.1565	0.01	9.68	36.44	46.13	65.65 -19.52 QP
3	0.2701	0.03	9.68	21.01	30.72	51.12 -20.40 Average
4	0.2701	0.03	9.68	34.51	44.22	61.12 -16.90 QP
5	0.9684	0.09	9.70	19.60	29.39	46.00 -16.61 Average
6	0.9684	0.09	9.70	34.21	44.00	56.00 -12.00 QP
7	1.4333	0.13	9.72	22.41	32.26	46.00 -13.74 Average
8	1.4333	0.13	9.72	34.93	44.78	56.00 -11.22 QP
9	3.1563	0.16	9.77	23.45	33.38	46.00 -12.62 Average
10	3.1563	0.16	9.77	32.59	42.52	56.00 -13.48 QP
11	6.0243	0.17	9.87	26.65	36.69	50.00 -13.31 Average
12	6.0243	0.17	9.87	32.89	42.93	60.00 -17.07 QP

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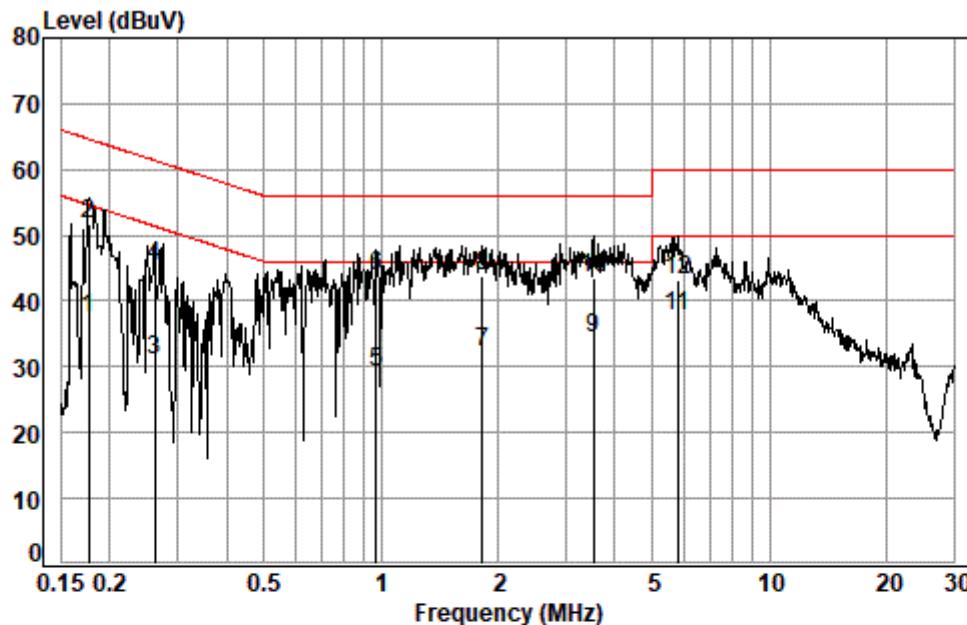
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Mode:I; Line:Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 05197CR
Test mode: 1

Freq	Cable	LISN	Read	Limit	Over	Limit	Remark
	Loss	Factor	Level				
	MHz	dB	dB	dBuV	dBuV	dBuV	
1	0.1768	0.02	9.66	27.66	37.34	54.64	-17.30 Average
2	0.1768	0.02	9.66	42.08	51.76	64.64	-12.88 QP
3	0.2616	0.03	9.66	21.48	31.17	51.38	-20.21 Average
4	0.2616	0.03	9.66	35.64	45.33	61.38	-16.05 QP
5	0.9735	0.09	9.69	19.34	29.12	46.00	-16.88 Average
6	0.9735	0.09	9.69	33.93	43.71	56.00	-12.29 QP
7	1.8192	0.15	9.72	22.43	32.30	46.00	-13.70 Average
8	1.8192	0.15	9.72	34.03	43.90	56.00	-12.10 QP
9	3.5278	0.16	9.78	24.29	34.23	46.00	-11.77 Average
10	3.5278	0.16	9.78	33.41	43.35	56.00	-12.65 QP
11	5.8050	0.17	9.90	27.76	37.83	50.00	-12.17 Average
12	5.8050	0.17	9.90	33.07	43.14	60.00	-16.86 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

Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Limit:

30MHz -88MHz 40.0(dB μ V/m) quasi-peak

88MHz-216MHz 43.5(dB μ V/m) quasi-peak

216MHz-960MHz 46.0(dB μ V/m) quasi-peak

960MHz-1000MHz 54.0(dB μ V/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26.1 °C Humidity: 57.4 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case: a: Idle mode, Keep the EUT at standby mode.

b: Charging mode, keep EUT in charging with Adapter, earphone.

c: LTE band 2+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

d: LTE band 4+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

e: LTE band 5+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

f: LTE band 12+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

g: LTE band 13+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

h: LTE band 14+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

i: Telecom Idle + BT+ WLAN + GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

j: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + front camera + LAN + Keyboard Cradle.

k: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + back camera + LAN + Desktop Cradle.

l: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + back camera + LAN + Wall Cradle.

b: Charging mode, keep EUT in charging with Adapter, earphone.

c: LTE band 2+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

k: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + back camera + LAN + Desktop Cradle.

l: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + back camera + LAN + Wall Cradle.

The worst case for final test:

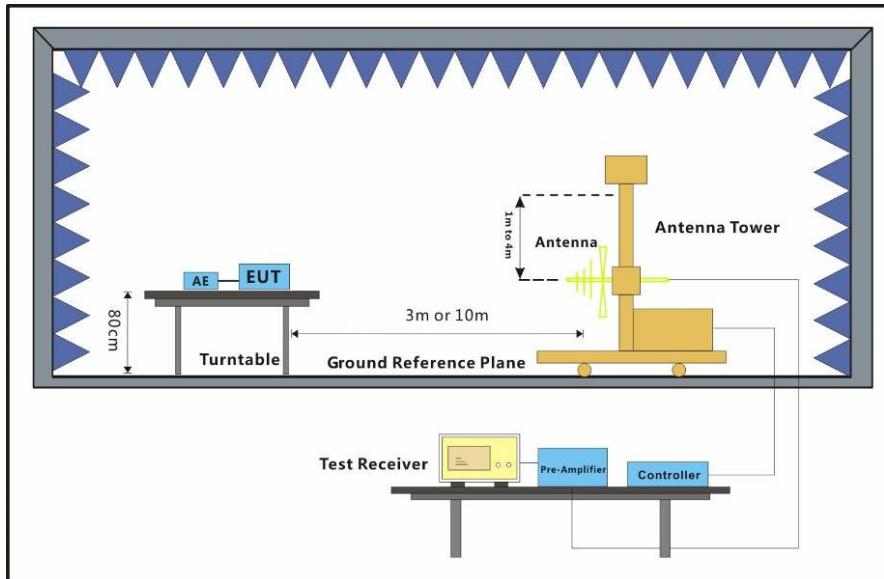
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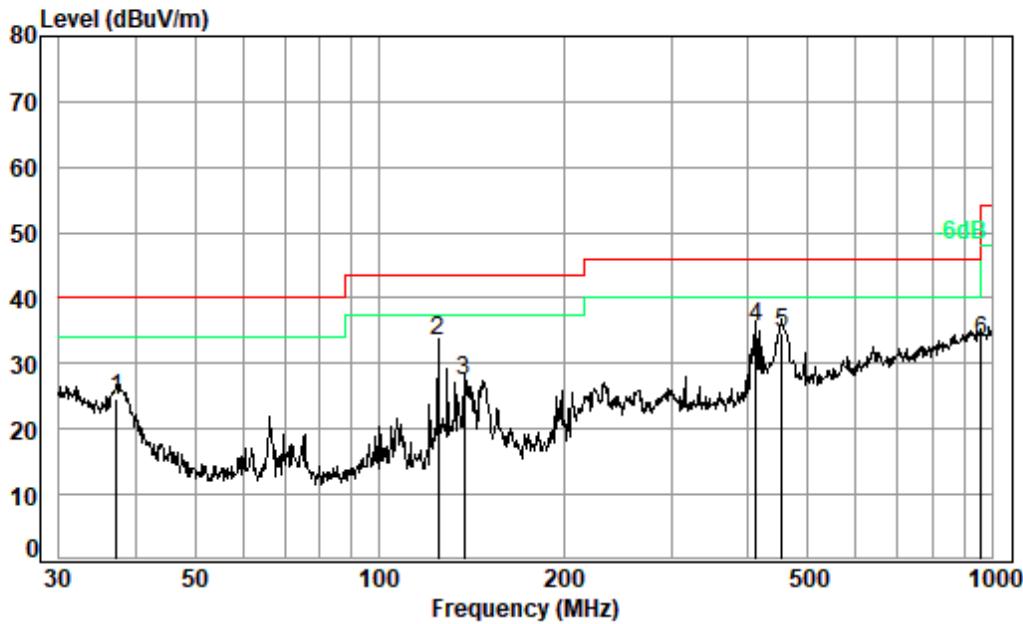
6.2.2 Test Setup Diagram**6.2.3 Measurement Data**

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.

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Mode:b; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 05197CR

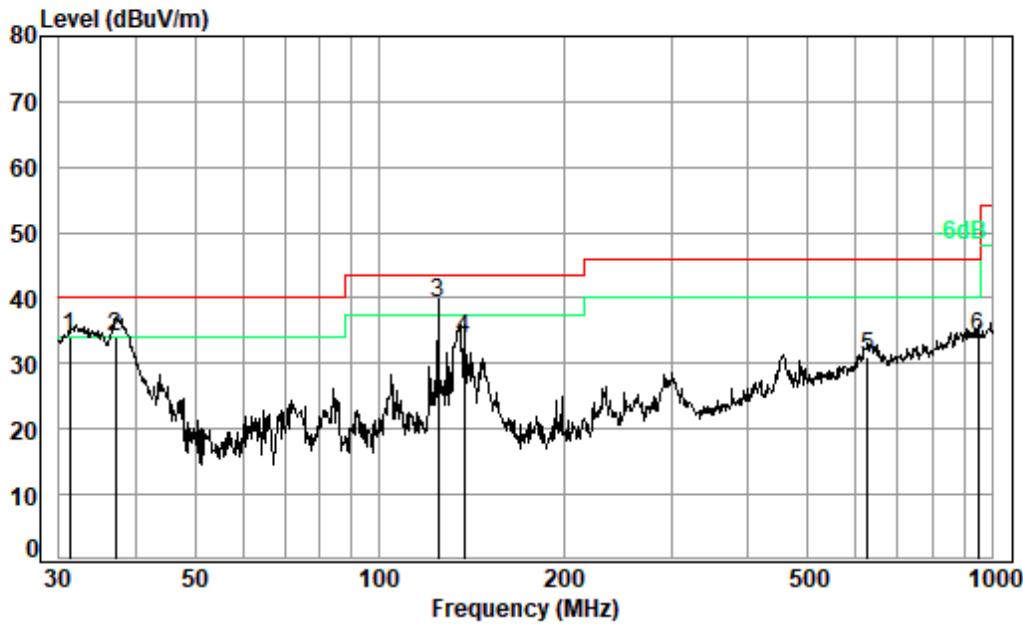
Test Mode: b

Freq	Cable	Ant	Preamp	Read	Limit	Over	Limit	Remark
	Freq	Loss	Factor	Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	37.29	0.60	18.72	27.71	33.16	24.77	40.00	-15.23 QP
2 pp	125.01	1.26	13.26	27.46	46.50	33.56	43.50	-9.94 QP
3	137.42	1.29	13.63	27.40	39.92	27.44	43.50	-16.06 QP
4	411.82	2.25	22.69	27.45	38.09	35.58	46.00	-10.42 QP
5	454.31	2.43	23.66	27.62	36.20	34.67	46.00	-11.33 QP
6	958.79	3.66	30.10	26.86	26.53	33.43	46.00	-12.57 QP

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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 05197CR

Test Mode: b

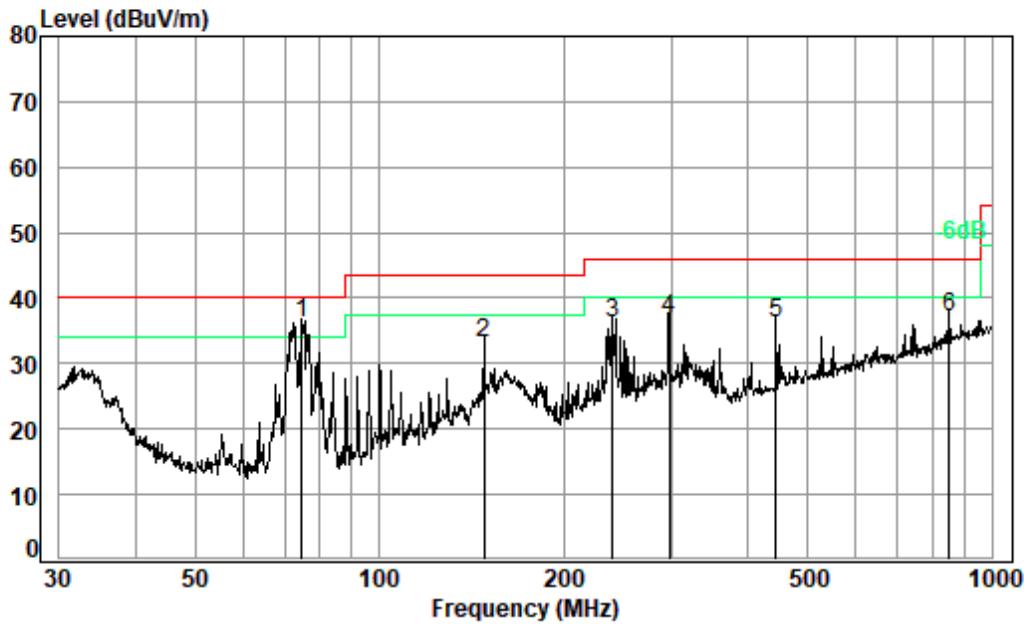
Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark	
	Freq	Loss	Factor	Factor	Level	Level	Line	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.29	0.60	21.77	27.73	39.36	34.00	40.00	-6.00 QP
2	37.15	0.60	18.78	27.71	42.50	34.17	40.00	-5.83 QP
3 pp	125.01	1.26	13.26	27.46	52.12	39.18	43.50	-4.32 QP
4	137.42	1.29	13.63	27.40	46.32	33.84	43.50	-9.66 QP
5	627.27	2.76	26.97	28.07	29.39	31.05	46.00	-14.95 QP
6	948.76	3.65	30.05	26.91	27.23	34.02	46.00	-11.98 QP



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Mode:c; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 05197CR

Test Mode: c

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Line Limit	Over Remark
					dBuV	dBuV/m		
1 pp	74.66	0.94	12.41	27.64	50.49	36.20	40.00	-3.80 QP
2	148.44	1.31	14.49	27.34	44.54	33.00	43.50	-10.50 QP
3	239.99	1.62	18.80	27.02	42.77	36.17	46.00	-9.83 QP
4	297.22	1.89	19.49	26.88	42.34	36.84	46.00	-9.16 QP
5	444.85	2.39	23.45	27.59	37.92	36.17	46.00	-9.83 QP
6	851.04	3.41	29.18	27.43	31.99	37.15	46.00	-8.85 QP

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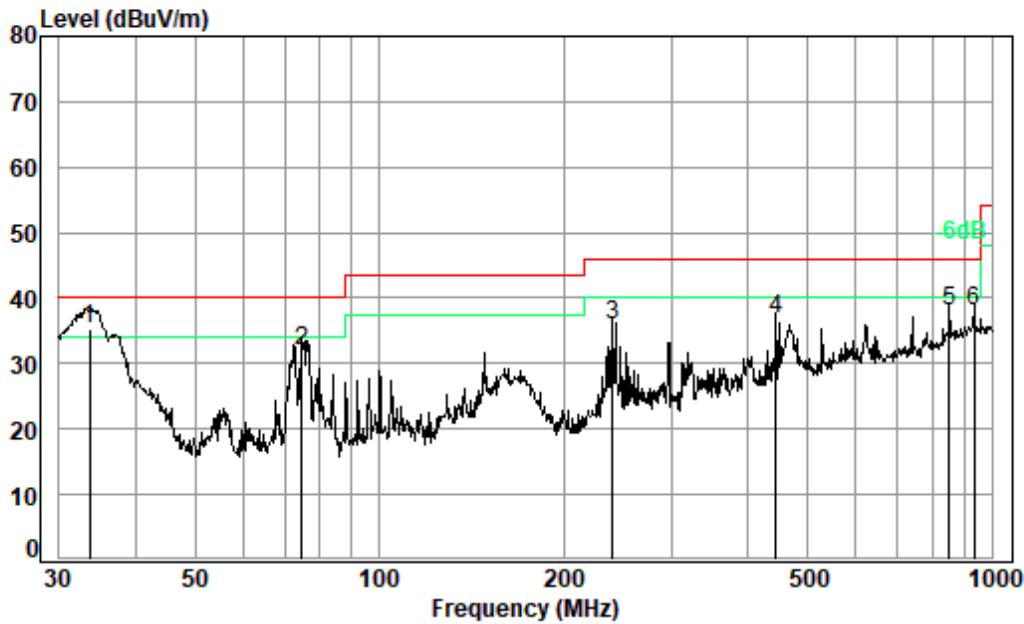
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Mode:c; Polarization:Vertical



Condition: 3m Vertical

Job No. : 05197CR

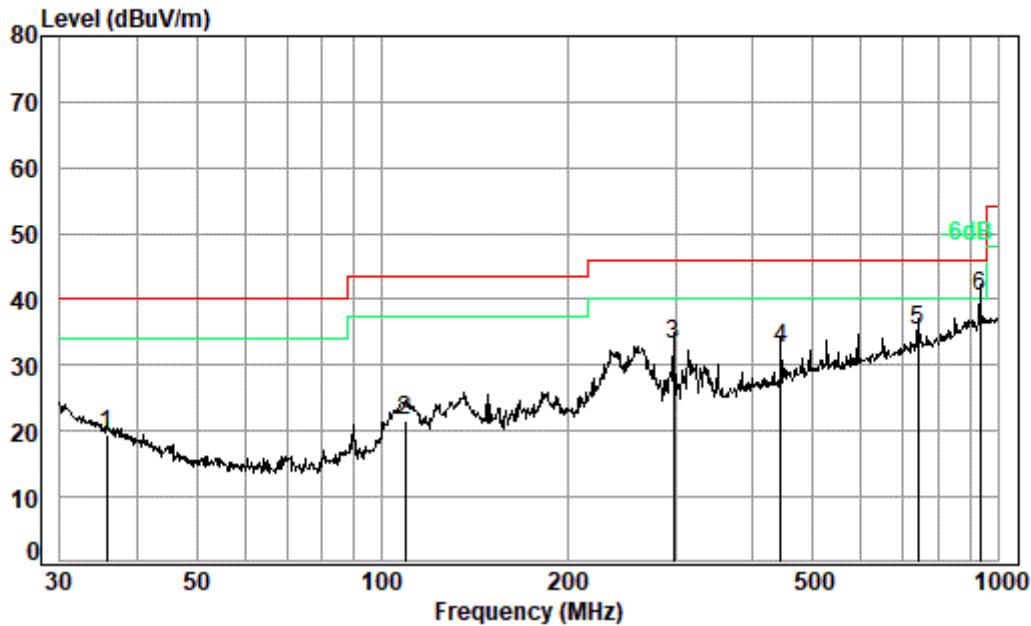
Test Mode: c

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Line Limit	Over Remark
					dBuV	dBuV/m		
1 pp	33.68	0.60	20.49	27.72	41.95	35.32	40.00	-4.68 QP
2	74.66	0.94	12.41	27.64	46.26	31.97	40.00	-8.03 QP
3	239.99	1.62	18.80	27.02	42.46	35.86	46.00	-10.14 QP
4	444.85	2.39	23.45	27.59	38.51	36.76	46.00	-9.24 QP
5	851.04	3.41	29.18	27.43	32.71	37.87	46.00	-8.13 QP
6	935.55	3.64	29.98	26.98	31.35	37.99	46.00	-8.01 QP

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Mode:k; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 05197CR

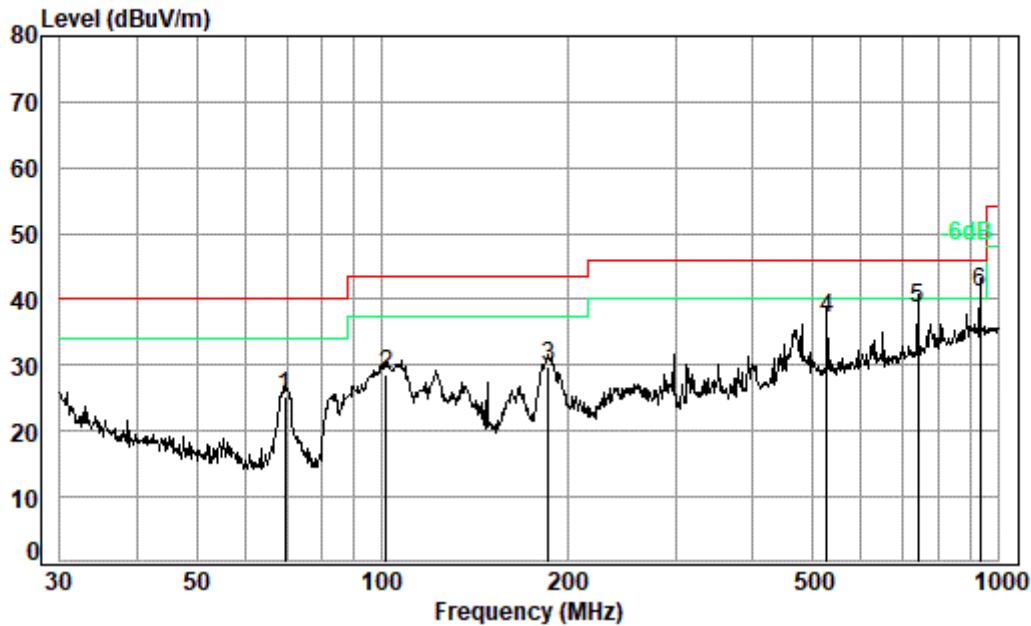
Test Mode: k

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	35.75	0.66	19.45	27.72	26.95	19.34	40.00 -20.66 QP
2	109.03	1.11	13.57	27.55	34.47	21.60	43.50 -21.90 QP
3	297.22	1.98	19.49	26.88	38.45	33.04	46.00 -12.96 QP
4	444.85	2.40	23.45	27.59	34.21	32.47	46.00 -13.53 QP
5	742.26	3.08	28.16	27.83	31.72	35.13	46.00 -10.87 QP
6 pp	935.55	3.54	29.98	26.98	33.79	40.33	46.00 -5.67 QP

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Mode:k; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 05197CR

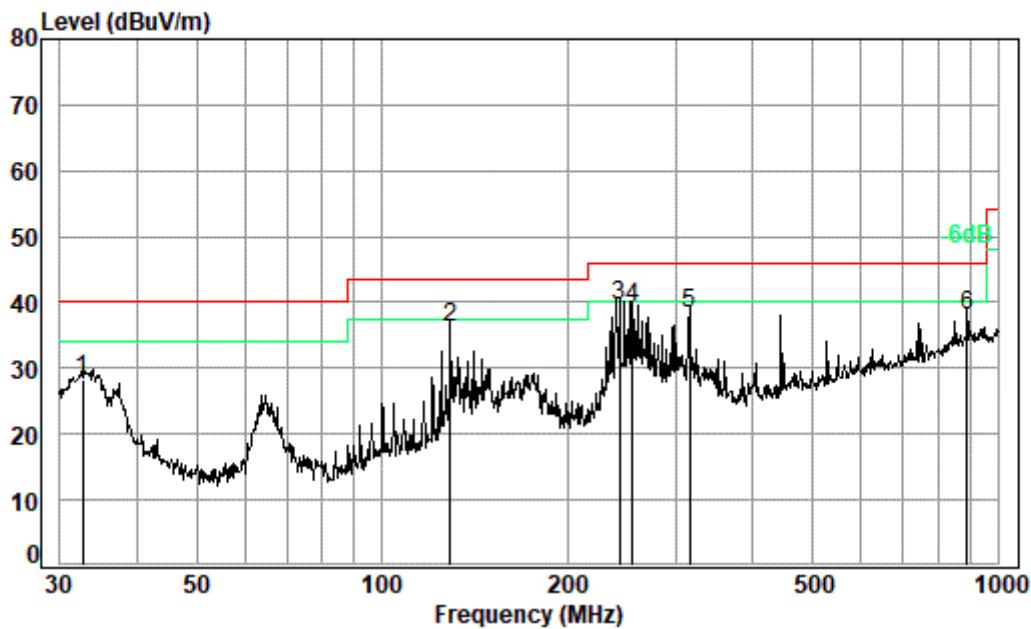
Test Mode: k

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	69.60	0.80	12.81	27.65	39.15	25.11	40.00 -14.89 QP
2	101.64	1.10	13.92	27.60	41.08	28.50	43.50 -15.00 QP
3	186.44	1.19	16.10	27.19	39.62	29.72	43.50 -13.78 QP
4	528.25	2.56	25.20	27.90	37.10	36.96	46.00 -9.04 QP
5	742.26	3.08	28.16	27.83	35.32	38.73	46.00 -7.27 QP
6 pp	935.55	3.54	29.98	26.98	34.66	41.20	46.00 -4.80 QP

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Mode:I; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 05197CR

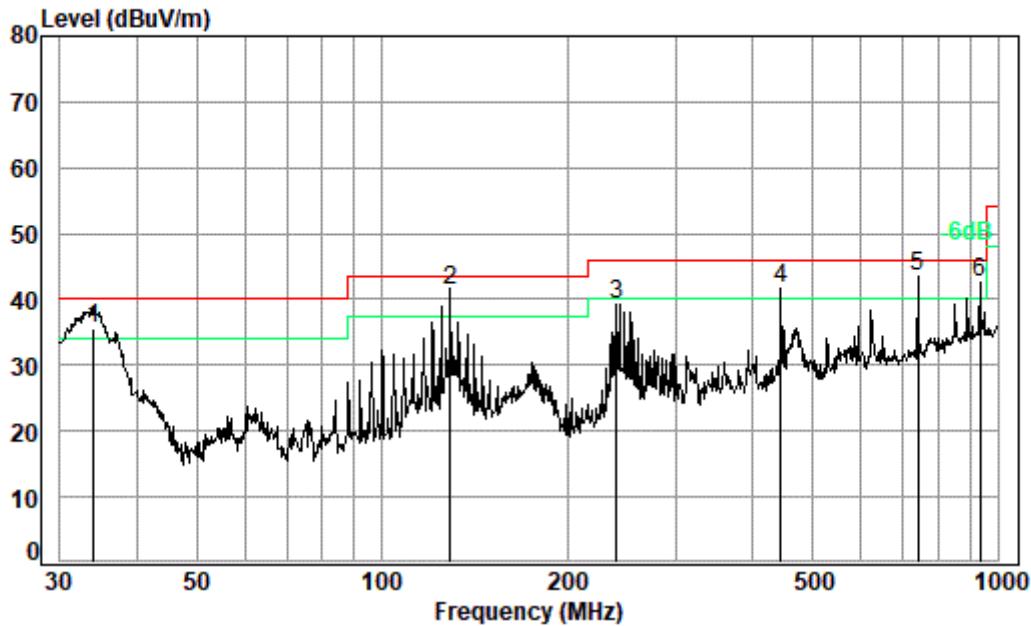
Test Mode: 1

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.63	0.60	21.04	27.73	34.48	28.39	40.00 -11.61 QP
2	129.01	1.27	13.38	27.44	49.02	36.23	43.50 -7.27 QP
3 pp	243.38	1.64	18.85	27.01	46.03	39.51	46.00 -6.49 QP
4	255.62	1.70	19.04	26.98	45.40	39.16	46.00 -6.84 QP
5	315.48	1.95	20.09	26.96	43.23	38.31	46.00 -7.69 QP
6	890.73	3.56	29.69	27.21	32.13	38.17	46.00 -7.83 QP

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Mode:I; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 05197CR

Test Mode: 1

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Freq	Loss	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	34.04	0.60	20.31	27.72	42.42	35.61	40.00 -4.39 QP
2 pp	129.01	1.27	13.38	27.44	54.05	41.26	43.50 -2.24 QP
3	239.99	1.62	18.80	27.02	45.77	39.17	46.00 -6.83 QP
4	444.85	2.39	23.45	27.59	43.48	41.73	46.00 -4.27 QP
5	742.26	3.03	28.16	27.83	39.99	43.35	46.00 -2.65 QP
6	935.55	3.64	29.98	26.98	35.95	42.59	46.00 -3.41 QP

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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(dB μ V/m) peak, 54(dB μ V/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 18000MHz

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C Humidity: 51.1 % RH Atmospheric Pressure: 1005 mbar

Pretest these modes to find the worst case: a: Idle mode, Keep the EUT at standby mode.

b: Charging mode, keep EUT in charging with Adapter, earphone.

c: LTE band 2+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

d: LTE band 4+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

e: LTE band 5+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

f: LTE band 12+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

g: LTE band 13+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

h: LTE band 14+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

i: Telecom Idle + BT+ WLAN + GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

j: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + front camera + LAN + Keyboard Cradle.

k: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + back camera + LAN + Desktop Cradle.

l: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + back camera + LAN + Wall Cradle.

c: LTE band 2+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

d: LTE band 4+ BT+WLAN+ GPS Rx + battery + adapter + Earphone + USB + video playing + back camera + LAN + Keyboard Cradle.

k: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + back camera + LAN + Desktop Cradle.

l: a~i worse mode + BT+ WLAN + GPS Rx + battery + adapter + USB + video playing + back camera + LAN + Wall Cradle.

The worst case for final test:

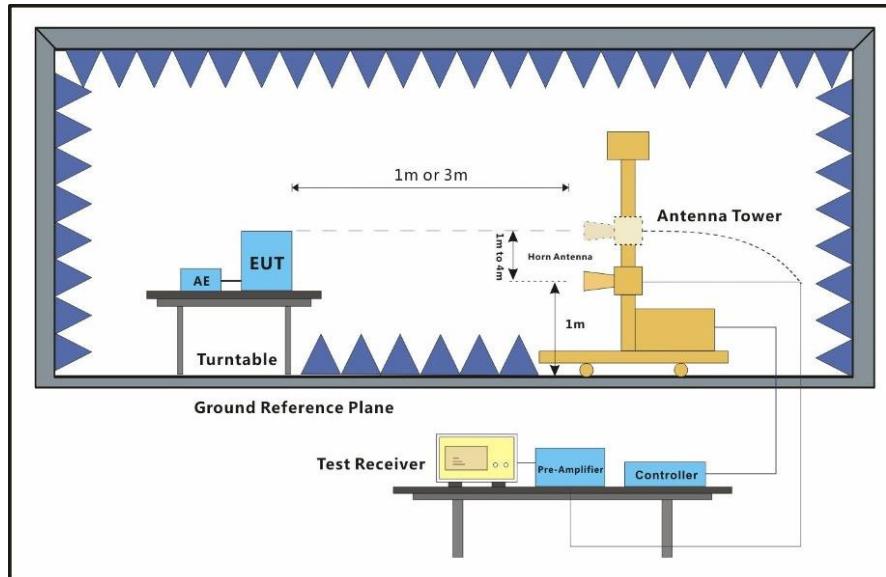
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6.3.2 Test Setup Diagram**6.3.3 Measurement Data**

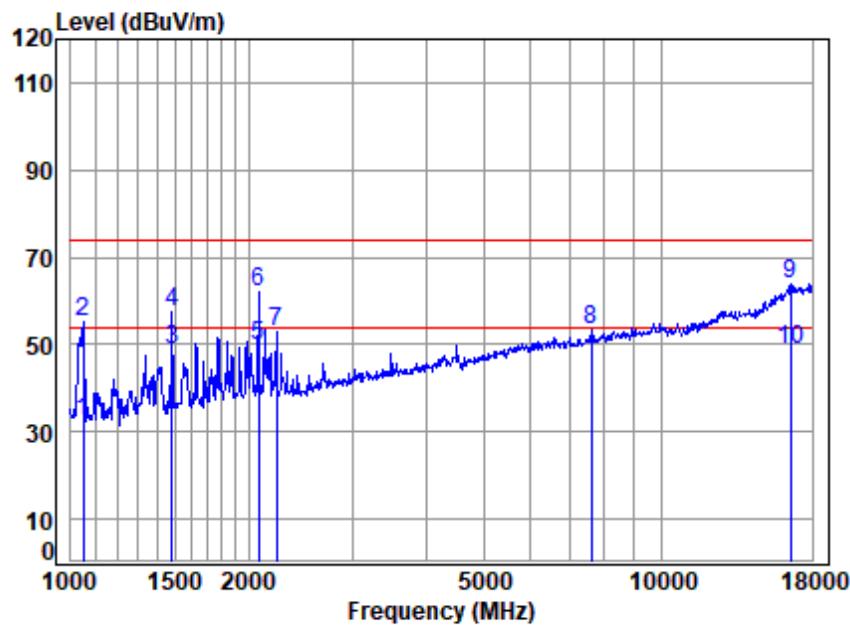
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

Note: Add the High Pass Filter for above 1GHz Radiated Emission testing.

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Mode:c; Polarization:Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05197CR
Mode : c
Note :

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Level	Over Limit	Remark
				Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1050.364	2.47	23.87	40.15	46.38	32.57	54.00	-21.43 Average
2	1050.364	2.47	23.87	40.15	69.02	55.21	74.00	-18.79 Peak
3	1483.841	3.24	25.74	40.50	60.50	48.98	54.00	-5.02 Average
4	1483.841	3.24	25.74	40.50	68.79	57.27	74.00	-16.73 Peak
5	2077.705	3.80	27.95	40.83	58.87	49.79	54.00	-4.21 Average
6	2077.705	3.80	27.95	40.83	71.28	62.20	74.00	-11.80 Peak
7	2226.950	4.07	28.23	40.90	61.49	52.89	74.00	-21.11 Peak
8	7606.788	9.10	36.39	41.38	49.06	53.17	74.00	-20.83 Peak
9	16552.730	14.75	42.24	40.55	47.42	63.86	74.00	-10.14 Peak
10	16552.730	14.75	42.24	40.55	32.40	48.84	54.00	-5.16 Average

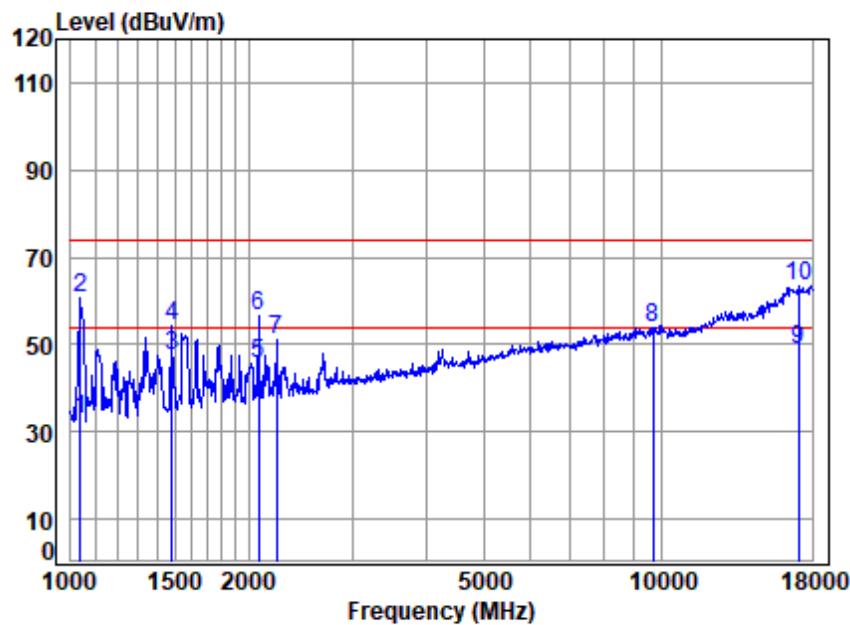
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Mode:c; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05197CR
Mode : c
Note :

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over Limit	Remark
				Level				
MHz	dB	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 1038.290	2.44	23.80	40.14	46.90	33.00	54.00	-21.00	Average
2 1038.290	2.44	23.80	40.14	74.43	60.53	74.00	-13.47	Peak
3 1485.841	3.24	25.75	40.50	58.86	47.35	54.00	-6.65	Average
4 1485.841	3.24	25.75	40.50	65.79	54.28	74.00	-19.72	Peak
5 2077.705	3.80	27.95	40.83	54.87	45.79	54.00	-8.21	Average
6 2077.705	3.80	27.95	40.83	65.78	56.70	74.00	-17.30	Peak
7 2226.950	4.07	28.23	40.90	59.54	50.94	74.00	-23.06	Peak
8 9697.151	10.78	37.72	38.44	43.84	53.90	74.00	-20.10	Peak
9 17087.460	14.14	42.65	40.53	32.63	48.89	54.00	-5.11	Average
10 17087.460	14.14	42.65	40.53	46.99	63.25	74.00	-10.75	Peak

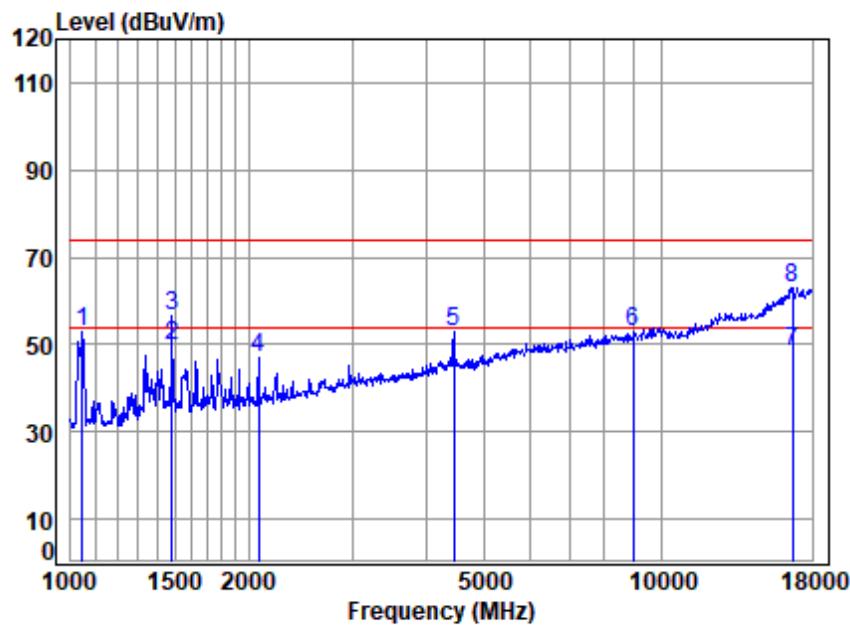
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Mode:d; Polarization:Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05197CR
Mode : d
Note :

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over Limit	Remark
				Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1047.332	2.46	23.85	40.15	66.97	53.13	74.00	-20.87 Peak
2	1485.841	3.24	25.75	40.50	61.27	49.76	54.00	-4.24 Average
3	1485.841	3.24	25.75	40.50	68.09	56.58	74.00	-17.42 Peak
4	2077.705	3.80	27.95	40.83	55.85	46.77	74.00	-27.23 Peak
5	4456.315	6.72	33.53	42.52	55.11	52.84	74.00	-21.16 Peak
6	8969.161	10.29	37.19	39.56	44.85	52.77	74.00	-21.23 Peak
7	16648.690	14.62	42.32	40.54	32.17	48.57	54.00	-5.43 Average
8	16648.690	14.62	42.32	40.54	46.49	62.89	74.00	-11.11 Peak

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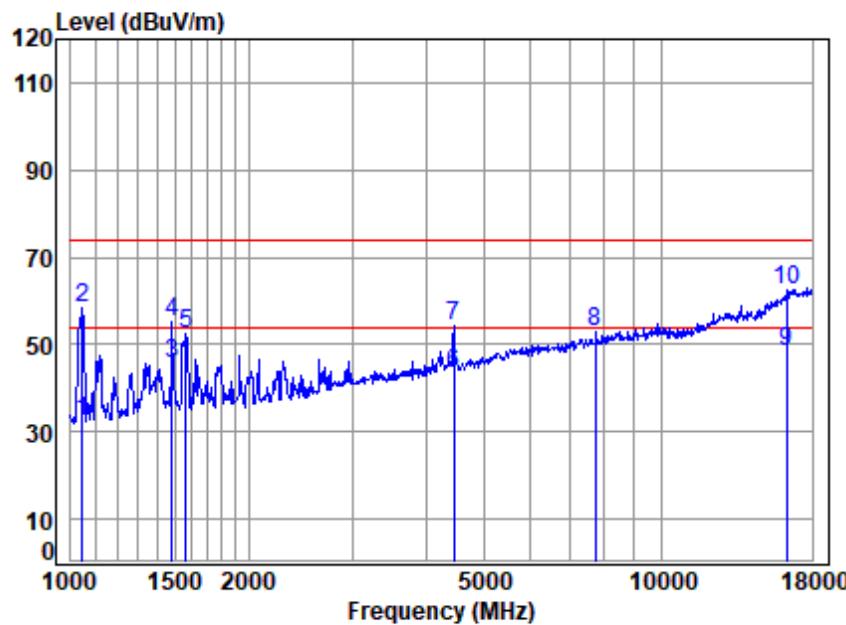
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Mode:d; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05197CR
Mode : d
Note :

Freq	Cable Loss	Ant Factor	Preamp Factor	Read	Limit Level	Line Limit	Over Limit	Remark
				Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1047.332	2.46	23.85	40.15	46.12	32.28	54.00	-21.72 Average
2	1047.332	2.46	23.85	40.15	72.27	58.43	74.00	-15.57 Peak
3	1485.841	3.24	25.75	40.50	57.34	45.83	54.00	-8.17 Average
4	1485.841	3.24	25.75	40.50	66.77	55.26	74.00	-18.74 Peak
5	1565.191	3.32	26.10	40.55	63.39	52.26	74.00	-21.74 Peak
6	4456.315	6.72	33.53	42.52	45.68	43.41	54.00	-10.59 Average
7	4456.315	6.72	33.53	42.52	56.69	54.42	74.00	-19.58 Peak
8	7739.857	9.21	36.50	41.32	48.48	52.87	74.00	-21.13 Peak
9	16268.140	14.52	41.65	40.56	32.66	48.27	54.00	-5.73 Average
10	16268.140	14.52	41.65	40.56	46.88	62.49	74.00	-11.51 Peak

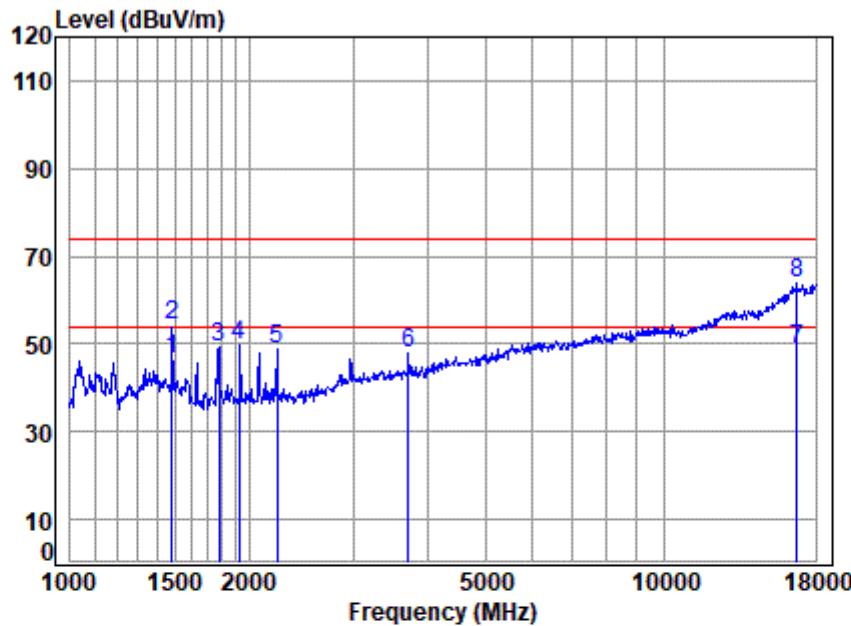
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Mode:k; Polarization:Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05197CR
Mode : k
Note :

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over	Remark
							dB	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1485.841	3.24	25.75	40.50	58.20	46.69	54.00	-7.31 Average
2	1485.841	3.24	25.75	40.50	65.85	54.34	74.00	-19.66 Peak
3	1782.602	3.49	27.00	40.68	59.58	49.39	74.00	-24.61 Peak
4	1927.289	3.60	27.54	40.76	59.53	49.91	74.00	-24.09 Peak
5	2226.950	4.07	28.23	40.90	57.58	48.98	74.00	-25.02 Peak
6	3714.443	5.86	32.15	41.91	51.88	47.98	74.00	-26.02 Peak
7	16745.210	14.50	42.40	40.54	32.33	48.69	54.00	-5.31 Average
8	16745.210	14.50	42.40	40.54	47.30	63.66	74.00	-10.34 Peak

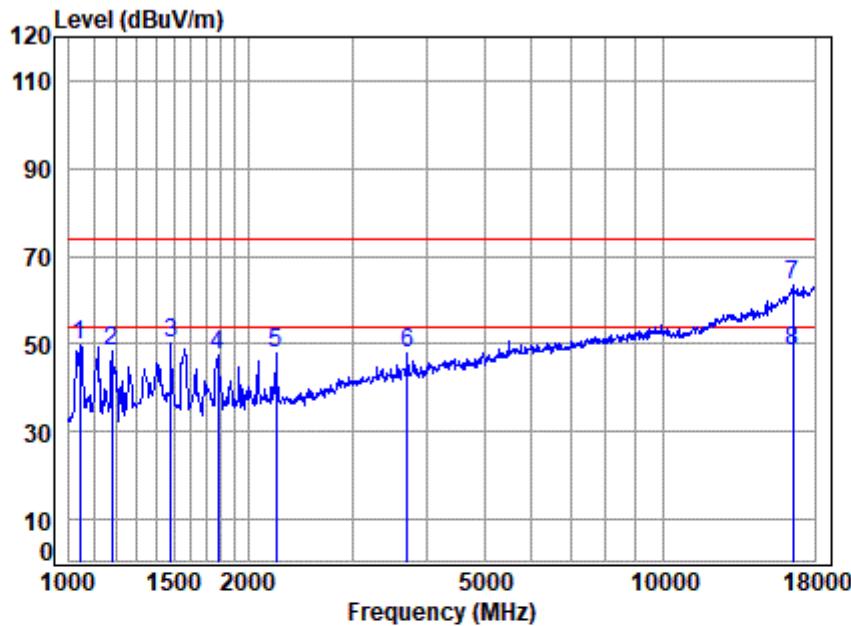
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Mode:k; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05197CR
Mode : k
Note :

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit		
							dBuV	dBuV/m	dB
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 1041.295	2.45	23.82	40.14	63.70	49.83	74.00	-24.17	Peak	
2 1179.100	2.73	24.49	40.26	61.59	48.55	74.00	-25.45	Peak	
3 1485.841	3.24	25.75	40.50	61.49	49.98	74.00	-24.02	Peak	
4 1782.602	3.49	27.00	40.68	57.83	47.64	74.00	-26.36	Peak	
5 2226.950	4.07	28.23	40.90	56.50	47.90	74.00	-26.10	Peak	
6 3714.443	5.86	32.15	41.91	51.74	47.84	74.00	-26.16	Peak	
7 16552.730	14.75	42.24	40.55	46.90	63.34	74.00	-10.66	Peak	
8 16552.730	14.75	42.24	40.55	31.86	48.30	54.00	-5.70	Average	

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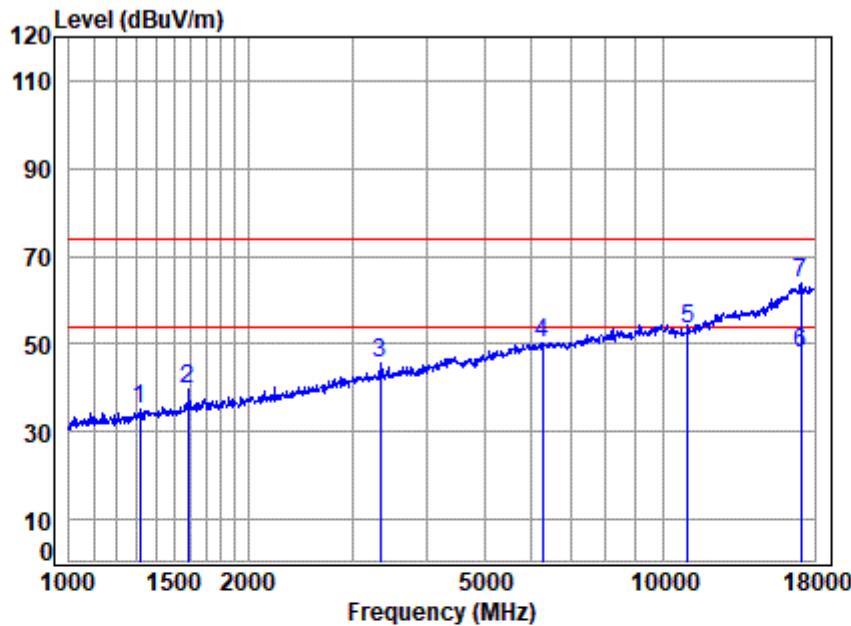
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Mode:I; Polarization:Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05197CR
Mode : 1
Note :

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
								dB	dB/m
1	1315.985	2.97	25.09	40.37	47.47	35.16	74.00	-38.84	Peak
2	1587.975	3.34	26.20	40.56	50.57	39.55	74.00	-34.45	Peak
3	3337.710	5.32	31.45	41.56	50.30	45.51	74.00	-28.49	Peak
4	6267.553	8.27	35.37	42.08	48.62	50.18	74.00	-23.82	Peak
5	11012.250	10.99	37.80	38.48	42.91	53.22	74.00	-20.78	Peak
6	17087.460	14.14	42.65	40.53	31.81	48.07	54.00	-5.93	Average
7	17087.460	14.14	42.65	40.53	47.75	64.01	74.00	-9.99	Peak

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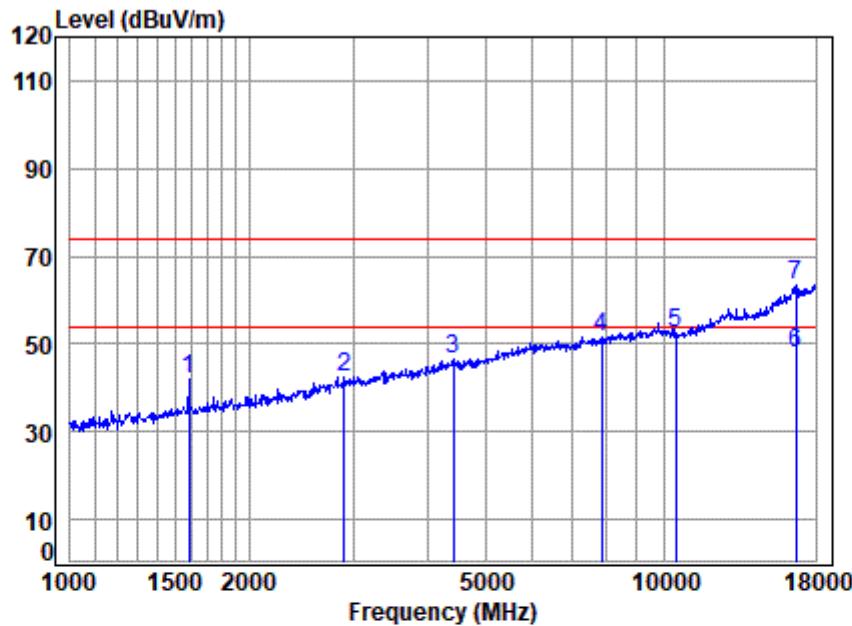
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Mode:I; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05197CR
Mode : 1
Note :

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	
							dB	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1583.392	3.33	26.18	40.56	53.18	42.13	74.00	-31.87	Peak
2 2896.945	4.79	30.48	41.17	48.49	42.59	74.00	-31.41	Peak
3 4417.841	6.68	33.46	42.49	48.81	46.46	74.00	-27.54	Peak
4 7852.524	9.30	36.58	41.27	47.16	51.77	74.00	-22.23	Peak
5 10484.230	10.53	37.71	38.23	42.34	52.35	74.00	-21.65	Peak
6 16696.880	14.56	42.36	40.54	31.57	47.95	54.00	-6.05	Average
7 16696.880	14.56	42.36	40.54	46.83	63.21	74.00	-10.79	Peak

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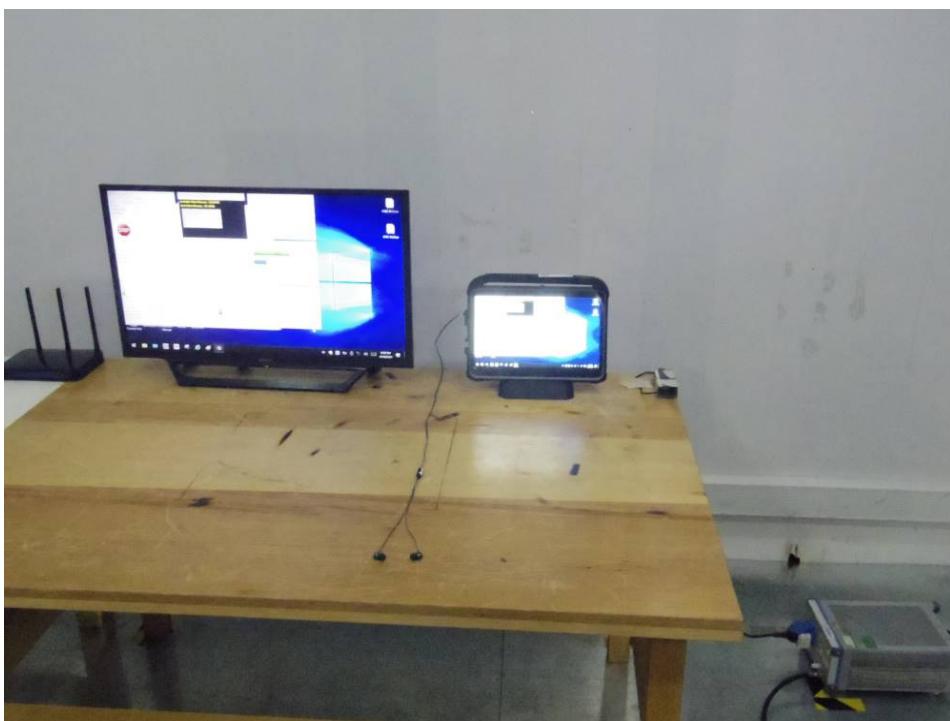


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7 Photographs

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup



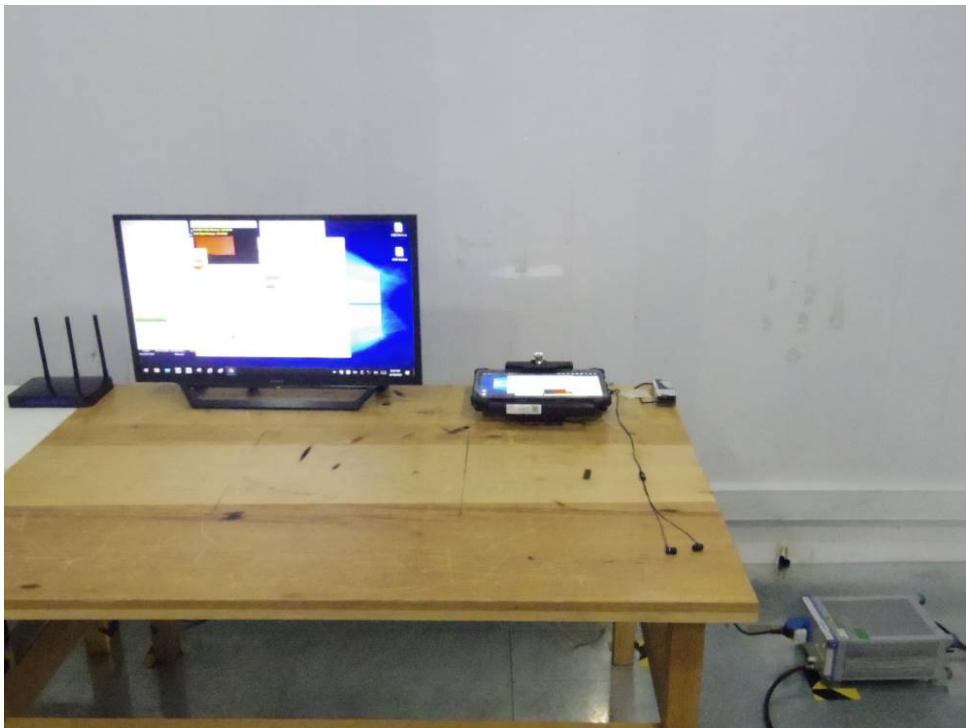
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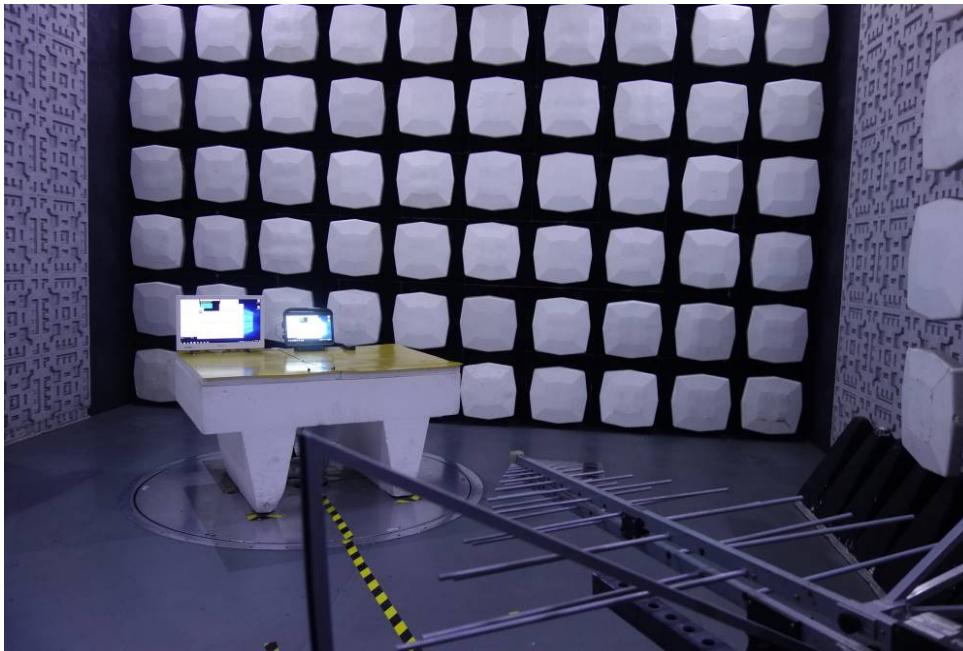
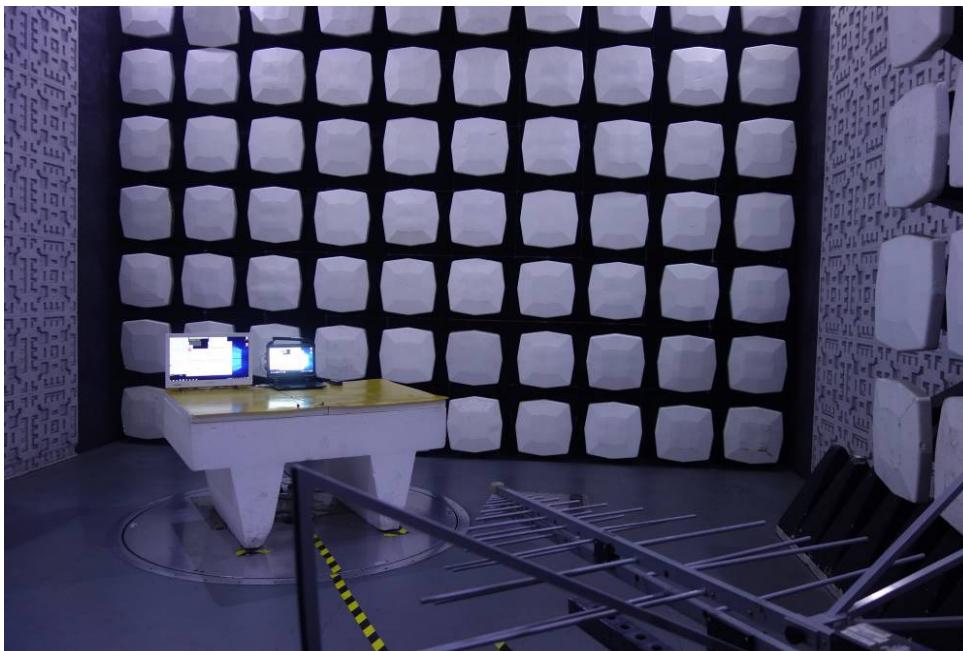


7.2 Radiated Emissions (30MHz-1GHz) Test Setup



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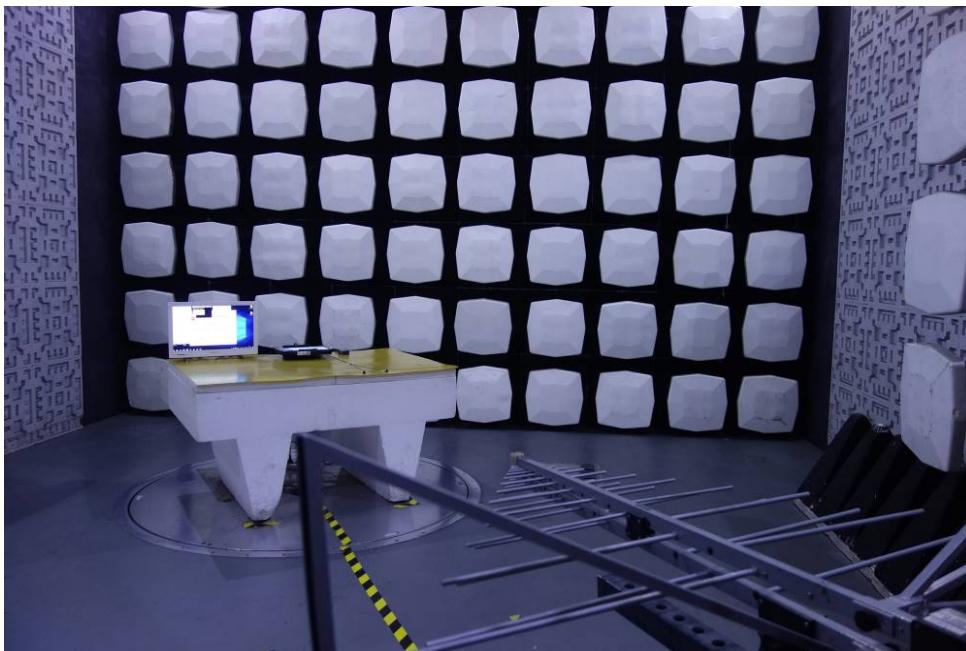
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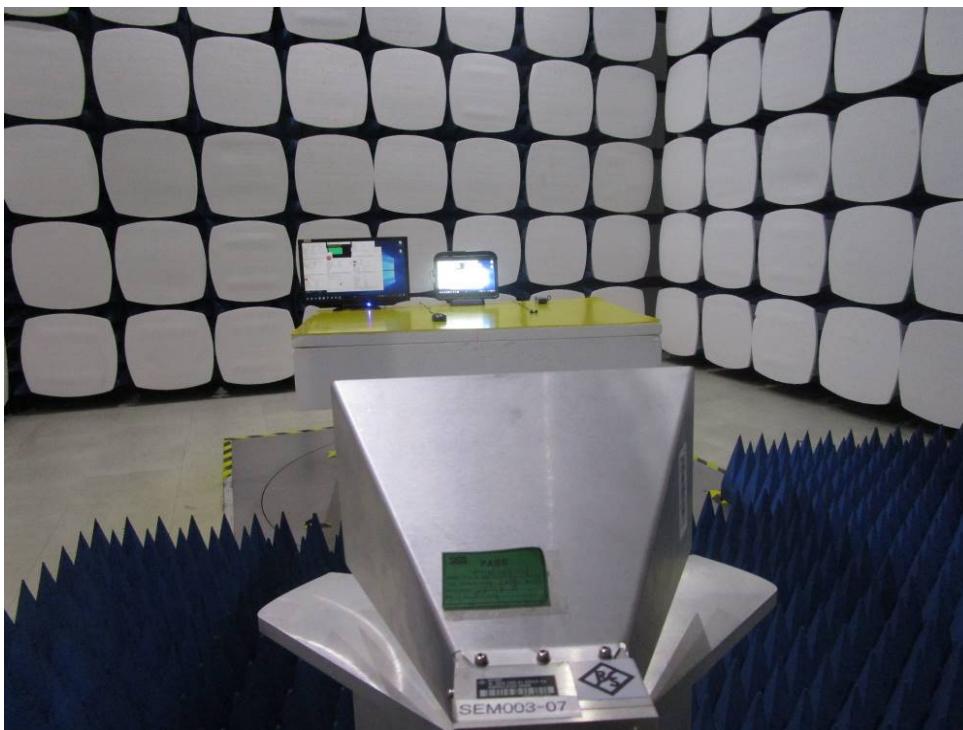
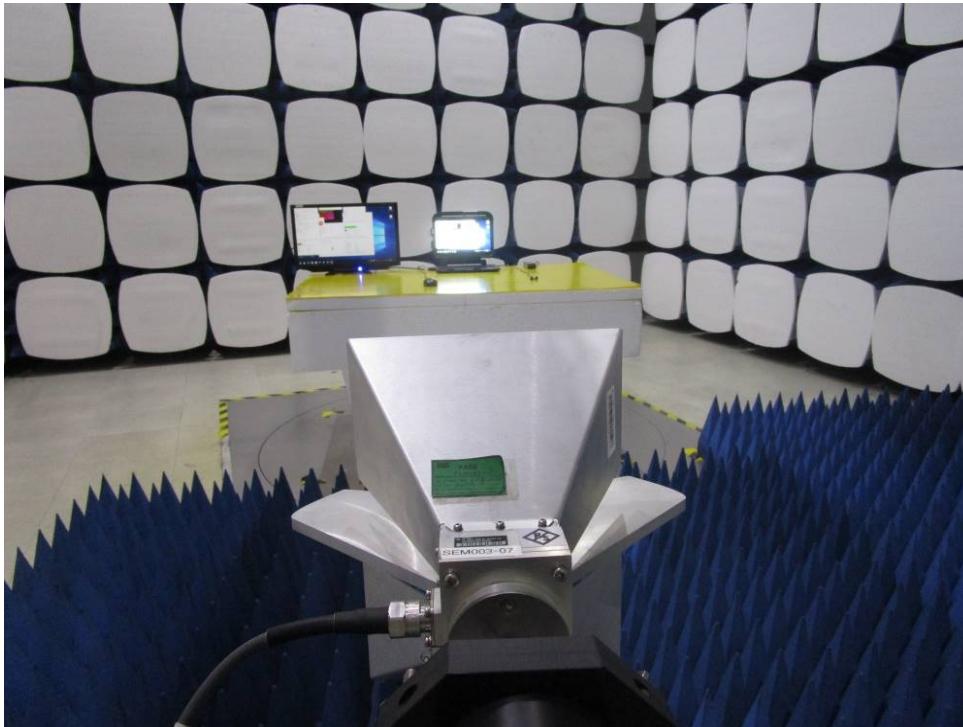
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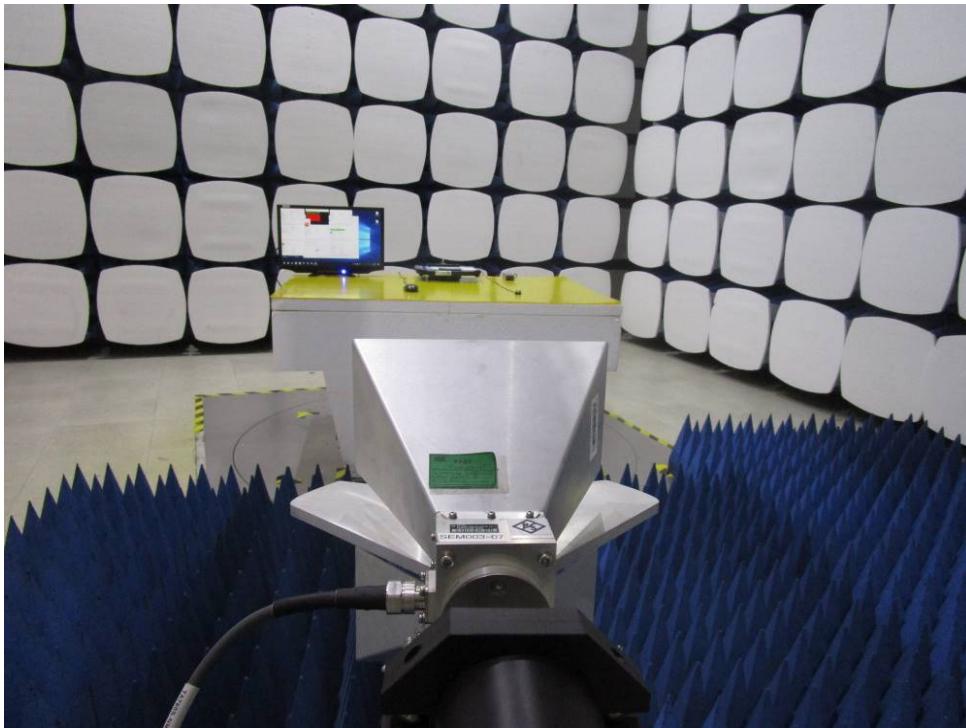
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7.3 Radiated Emissions (above 1GHz) Test Setup



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7.4 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -

SGS-CSTC Standards Technical Services Co., Ltd.
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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.sgsgroup.com.cn
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