

TEST REPORT

Application No.: SZEM1903011311CR
Applicant: TCL Communication Ltd.
Address of Applicant: 7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong, P.R. China 518052
Manufacturer: TCL Communication Ltd.
Address of Manufacturer: 7/F, Block F4, TCL Communication Technology Building, TCL International E City, Zhong Shan Yuan Road, Nanshan District, Shenzhen, Guangdong, P.R. China 518052

Equipment Under Test (EUT):

EUT Name: LTE/WCDMA/GSM mobile phone
Model No.: 5053A
Trade mark: alcatel
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2019-03-04
Date of Test: 2019-03-06 to 2019-03-08
Date of Issue: 2019-03-12

Test Result:	Pass*
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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		2019-03-12		Original

Authorized for issue by:			
			
		Leo Lai /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

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 3.8V from internal battery or AC/DC adapter Model No.: UC13US, UC11US
Cable:	USB cable: 80cm shielded. Earphone cable: 120cm unshielded.

Adaptor	Model1	Model1: CBA0058AGAC5 5.0 V,1000 mA,PUAN
	Model2	Model2: CBA0058AGAC7 5.0 V,1000 mA,CHENYANG
	Model3	Model3: CBA0059AGAC7 5.0 V,1000 mA,CHENYANG
	Model4	Model4: CBA0059AGAC5 5.0 V,1000 mA,PUAN
USB cable	Model1:	CDA0000024C2 juwei
	Model2:	CDA0000024C8 puan
	Model3:	CDA3122005C8 puan
	Model4:	CDA3122005C1 juwei
Headset	Model1:	CCB0046A10C1 15, JUWEI
	Model2:	CCB0046A10C4 15, MEIHAO
	Model3:	CCB0049A12C1 15+, juwei
	Model4:	CCB0049A12C4 15+, MEIHAO
Battery	Model1:	CAC3400011C1 Min3400/Typ3500mAh,BYD
	Model2:	CAC3400009C7 Min3400/Typ3500mAh,VEKEN

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200

4.3 Test modes

Pretest these modes to find the worst case and show the worse data in the test items:	<p>a: Transfer data between the EUT and the PC + cable1+battery1</p> <p>b: Transfer data between the EUT and the PC + cable2+battery1</p> <p>c: Transfer data between the EUT and the PC + cable3+battery1</p> <p>d: Transfer data between the EUT and the PC + cable4+battery1</p> <p>w: Transfer data between the EUT and the PC + cable(worse)+battery2</p> <p>e: Telecom Idle + FM+ BT + WLAN + GPS Rx + playing MP4 (SD card) + earphone1 + battery1 + adapter1</p> <p>f: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Front) + earphone2 + battery1 + adapter2</p> <p>g: Telecom Idle + FM+ BT + WLAN + GPS Rx + camera (Back) + earphone3 + battery1 + adapter3</p> <p>h: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Back) + earphone4 + battery1 + adapter4</p> <p>y: Telecom Idle + FM+ BT + WLAN + GPS Rx + camera (Back) + earphone4 + battery2 + adapter4</p> <p>i: GSM 850 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst)</p>
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j: GSM 1900 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst)
k: WCDMA Band II + FM+ BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst)
l: WCDMA Band IV + FM+ BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst)
m: WCDMA Band V + FM+ BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst)
n: LTE band 2 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst)
o: LTE band 4 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst)
p: LTE band 5 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst)
q: LTE band 12 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst)
r: LTE band 13 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst)
s: LTE band 17 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst)
t: LTE band 66 + FM+BT + WLAN + GPS Rx + earphone(worst) + battery1 + adapter(worst)
z: worse mode + battery2

4.4 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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4.5 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.6 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.

4.7 Deviation from Standards

None

4.8 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	2017-05-10	2020-05-09
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018-09-25	2019-09-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2018-04-02	2019-04-01
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018-04-02	2019-04-01

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	2018-07-12	2019-07-11
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	2018-04-02	2019-04-01

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	2018-07-12	2019-07-11
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2018-04-13	2019-04-12
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	2018-04-08	2019-04-07



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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



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6.1.1 E.U.T. Operation

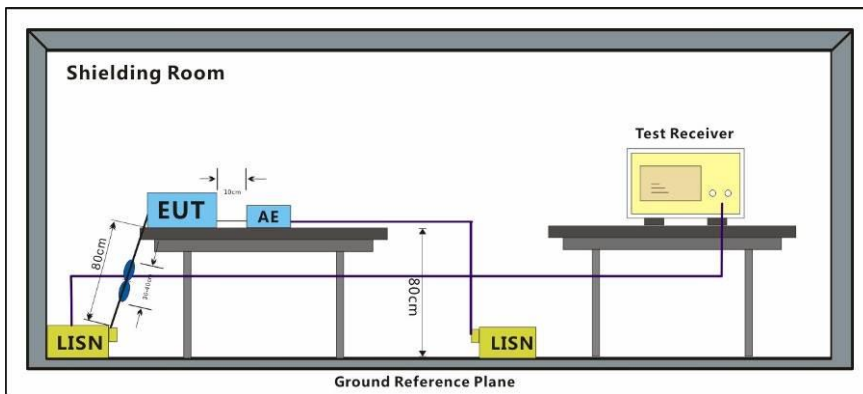
Operating Environment:

Temperature: 25 °C Humidity: 58 % RH Atmospheric Pressure: 1015 mbar

The worst case for final test:

- a: Transfer data between the EUT and the PC + cable1+ battery1
- e: Telecom Idle + FM+ BT + WLAN + GPS Rx + playing MP4 (SD card) + earphone1 + battery1 + adapter1
- f: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Front) + earphone2 + battery 1+ adapter2
- g: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Back) + earphone3 + battery 1+ adapter3
- h: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Back) + earphone4 + battery 1+ adapter4

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.

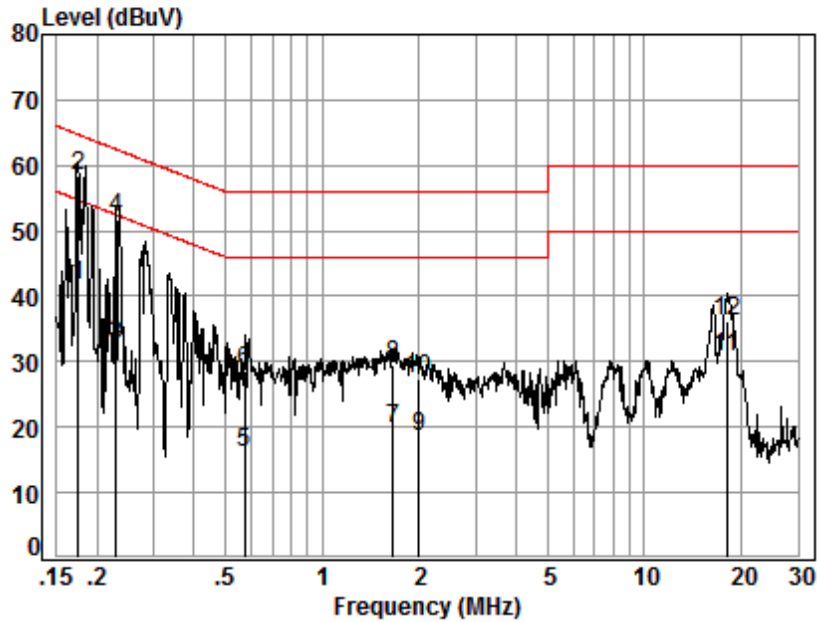


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Mode:a; Line:Live Line



Site : Shielding Room
 Condition: Line
 Job No. : 11311CR
 Test mode: a

	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	9.66	31.92	41.60	54.72	-13.12	Average
2	0.17	0.02	9.66	48.76	58.44	64.72	-6.28	QP
3	0.23	0.03	9.67	22.89	32.59	52.48	-19.89	Average
4	0.23	0.03	9.67	42.40	52.10	62.48	-10.38	QP
5	0.58	0.07	9.67	6.30	16.04	46.00	-29.96	Average
6	0.58	0.07	9.67	18.94	28.68	56.00	-27.32	QP
7	1.66	0.14	9.73	9.81	19.68	46.00	-26.32	Average
8	1.66	0.14	9.73	19.55	29.42	56.00	-26.58	QP
9	2.00	0.16	9.72	8.56	18.44	46.00	-27.56	Average
10	2.00	0.16	9.72	17.47	27.35	56.00	-28.65	QP
11	18.04	0.23	10.16	20.21	30.60	50.00	-19.40	Average
12	18.04	0.23	10.16	25.68	36.07	60.00	-23.93	QP

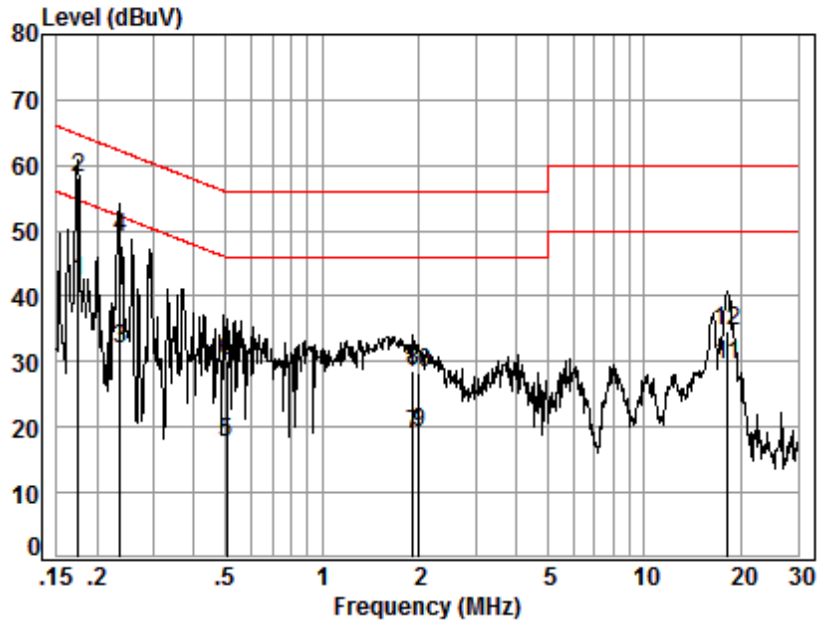


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Mode:a; Line:Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 11311CR
 Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.64	32.55	42.21	54.72	-12.51	Average
2	0.17	0.02	9.64	48.45	58.11	64.72	-6.61	QP
3	0.24	0.03	9.64	22.30	31.97	52.26	-20.29	Average
4	0.24	0.03	9.64	39.21	48.88	62.26	-13.38	QP
5	0.50	0.06	9.64	7.89	17.59	46.00	-28.41	Average
6	0.50	0.06	9.64	20.28	29.98	56.00	-26.02	QP
7	1.92	0.16	9.69	9.06	18.91	46.00	-27.09	Average
8	1.92	0.16	9.69	18.61	28.46	56.00	-27.54	QP
9	1.99	0.16	9.69	9.44	19.29	46.00	-26.71	Average
10	1.99	0.16	9.69	18.47	28.32	56.00	-27.68	QP
11	18.14	0.23	10.20	19.07	29.50	50.00	-20.50	Average
12	18.14	0.23	10.20	24.37	34.80	60.00	-25.20	QP

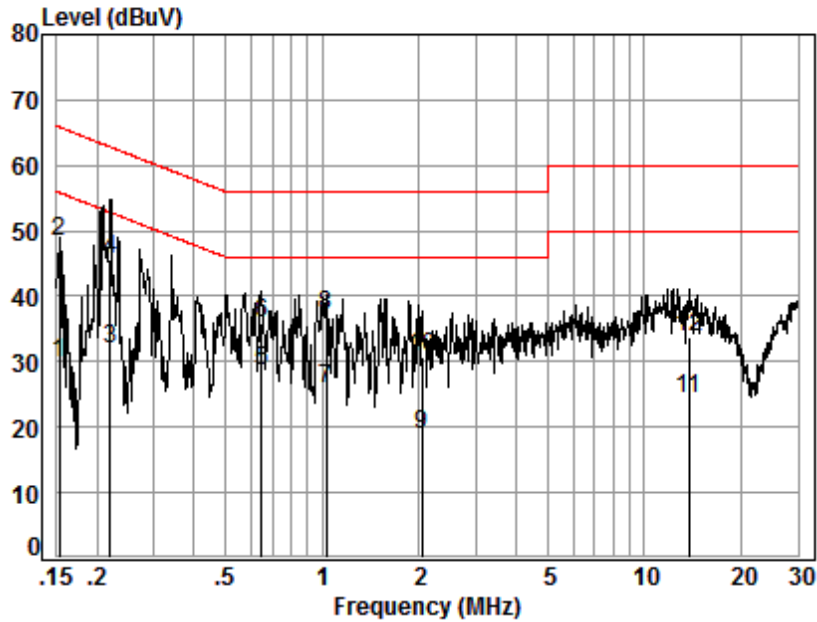


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Mode:e; Line:Live Line



Site : Shielding Room
 Condition: Line
 Job No. : 11311CR
 Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.66	20.26	29.93	55.87	-25.94	Average
2	0.15	0.01	9.66	38.72	48.39	65.87	-17.48	QP
3	0.22	0.03	9.66	22.15	31.84	52.83	-20.99	Average
4	0.22	0.03	9.66	35.91	45.60	62.83	-17.23	QP
5	0.65	0.07	9.67	18.91	28.65	46.00	-17.35	Average
6	0.65	0.07	9.67	26.21	35.95	56.00	-20.05	QP
7	1.03	0.09	9.74	15.97	25.80	46.00	-20.20	Average
8	1.03	0.09	9.74	27.14	36.97	56.00	-19.03	QP
9	2.04	0.16	9.72	9.06	18.94	46.00	-27.06	Average
10	2.04	0.16	9.72	20.81	30.69	56.00	-25.31	QP
11	13.77	0.20	10.24	13.98	24.42	50.00	-25.58	Average
12	13.77	0.20	10.24	23.25	33.69	60.00	-26.31	QP

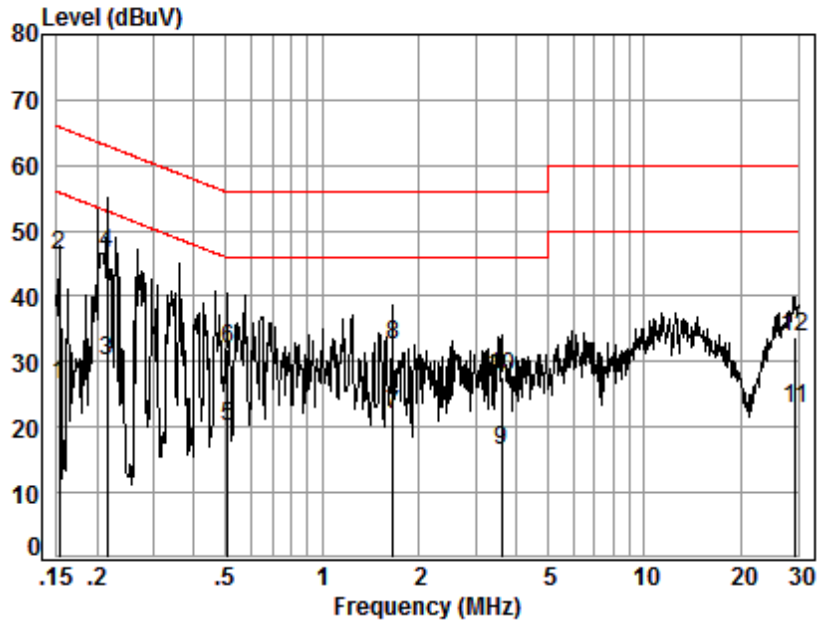


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Mode:e; Line:Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 11311CR
 Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.63	16.92	26.56	55.82	-29.26	Average
2	0.15	0.01	9.63	36.60	46.24	65.82	-19.58	QP
3	0.22	0.03	9.64	20.44	30.11	53.01	-22.90	Average
4	0.22	0.03	9.64	36.96	46.63	63.01	-16.38	QP
5	0.51	0.06	9.64	10.39	20.09	46.00	-25.91	Average
6	0.51	0.06	9.64	22.39	32.09	56.00	-23.91	QP
7	1.65	0.14	9.70	12.14	21.98	46.00	-24.02	Average
8	1.65	0.14	9.70	22.65	32.49	56.00	-23.51	QP
9	3.60	0.16	9.69	6.58	16.43	46.00	-29.57	Average
10	3.60	0.16	9.69	17.70	27.55	56.00	-28.45	QP
11	29.53	0.28	10.44	12.02	22.74	50.00	-27.26	Average
12	29.53	0.28	10.44	22.99	33.71	60.00	-26.29	QP

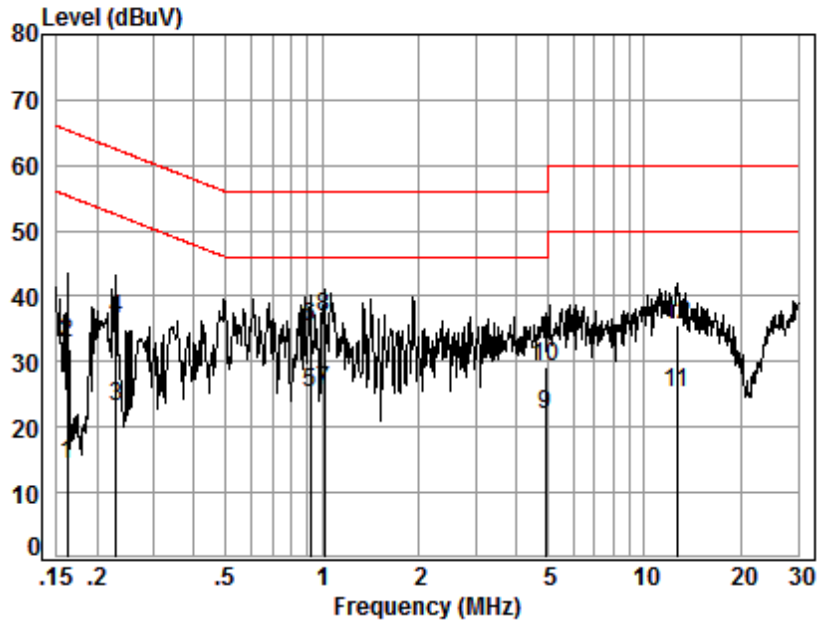


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Mode:f; Line:Live Line



Site : Shielding Room
 Condition: Line
 Job No. : 11311CR
 Test mode: f

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.66	4.62	14.29	55.38	-41.09	Average
2	0.16	0.01	9.66	23.29	32.96	65.38	-32.42	QP
3	0.23	0.03	9.67	13.46	23.16	52.48	-29.32	Average
4	0.23	0.03	9.67	26.95	36.65	62.48	-25.83	QP
5	0.92	0.09	9.74	15.40	25.23	46.00	-20.77	Average
6	0.92	0.09	9.74	25.46	35.29	56.00	-20.71	QP
7	1.02	0.09	9.74	15.70	25.53	46.00	-20.47	Average
8	1.02	0.09	9.74	26.95	36.78	56.00	-19.22	QP
9	4.93	0.17	9.74	11.85	21.76	46.00	-24.24	Average
10	4.93	0.17	9.74	19.30	29.21	56.00	-26.79	QP
11	12.58	0.19	10.13	14.82	25.14	50.00	-24.86	Average
12	12.58	0.19	10.13	25.26	35.58	60.00	-24.42	QP

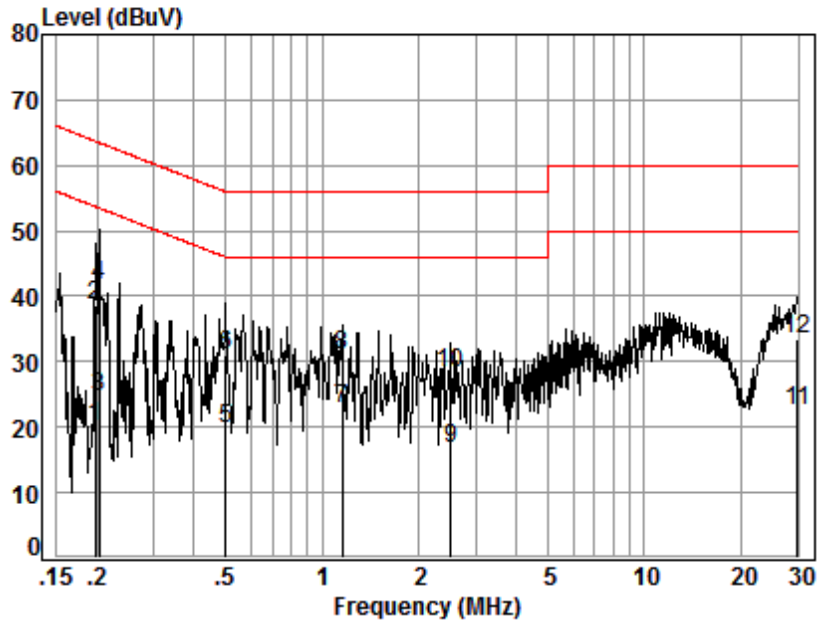


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Mode:f; Line:Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 11311CR
 Test mode: f

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.20	0.02	9.64	10.28	19.94	53.71	-33.77	Average
2	0.20	0.02	9.64	28.83	38.49	63.71	-25.22	QP
3	0.20	0.02	9.64	15.11	24.77	53.49	-28.72	Average
4	0.20	0.02	9.64	32.10	41.76	63.49	-21.73	QP
5	0.50	0.06	9.64	10.20	19.90	46.00	-26.10	Average
6	0.50	0.06	9.64	21.44	31.14	56.00	-24.86	QP
7	1.15	0.10	9.70	13.10	22.90	46.00	-23.10	Average
8	1.15	0.10	9.70	21.16	30.96	56.00	-25.04	QP
9	2.50	0.16	9.68	6.74	16.58	46.00	-29.42	Average
10	2.50	0.16	9.68	18.58	28.42	56.00	-27.58	QP
11	29.84	0.28	10.45	11.72	22.45	50.00	-27.55	Average
12	29.84	0.28	10.45	22.70	33.43	60.00	-26.57	QP

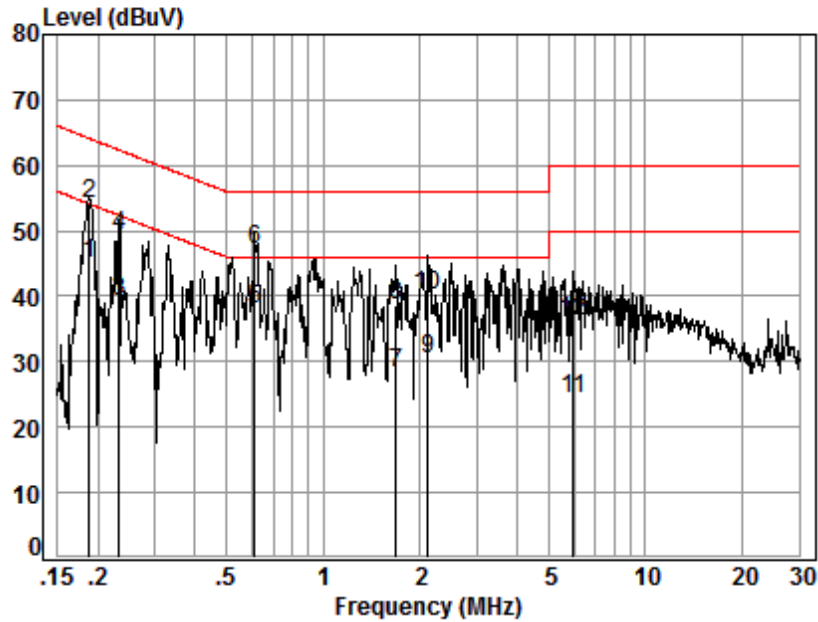


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Mode:g; Line:Live Line



Site : Shielding Room
 Condition: Line
 Job No. : 11311CR
 Test mode: g

	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	35.23	44.91	54.11	-9.20	Average
2	0.19	0.02	9.66	44.37	54.05	64.11	-10.06	QP
3	0.23	0.03	9.67	29.68	39.38	52.35	-12.97	Average
4	0.23	0.03	9.67	39.46	49.16	62.35	-13.19	QP
5	0.61	0.07	9.67	28.43	38.17	46.00	-7.83	Average
6	0.61	0.07	9.67	37.47	47.21	56.00	-8.79	QP
7	1.68	0.14	9.73	18.44	28.31	46.00	-17.69	Average
8	1.68	0.14	9.73	28.69	38.56	56.00	-17.44	QP
9	2.11	0.16	9.72	20.45	30.33	46.00	-15.67	Average
10	2.11	0.16	9.72	30.12	40.00	56.00	-16.00	QP
11	5.99	0.17	9.76	14.54	24.47	50.00	-25.53	Average
12	5.99	0.17	9.76	26.34	36.27	60.00	-23.73	QP

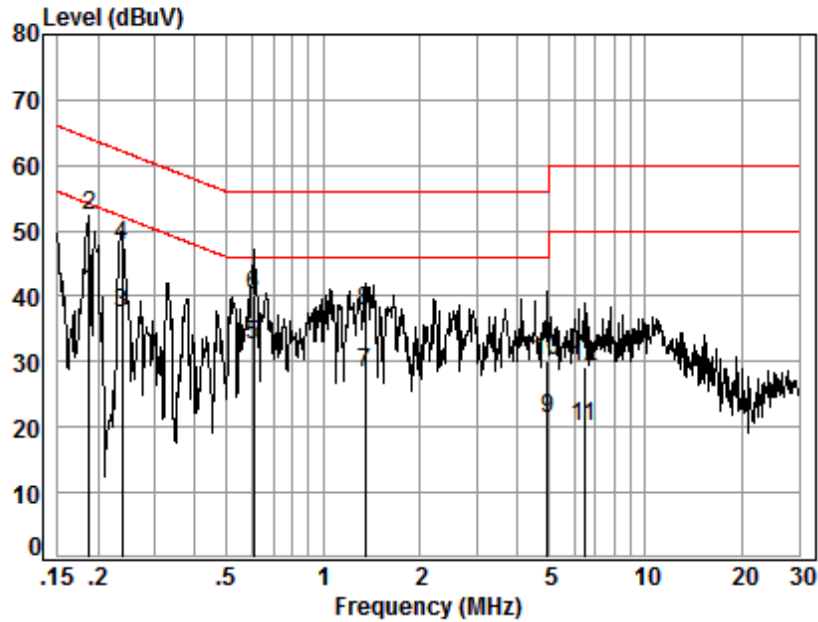


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Mode:g; Line:Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 11311CR
 Test mode: g

	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	31.21	40.87	54.15	-13.28	Average
2	0.19	0.02	9.64	42.70	52.36	64.15	-11.79	QP
3	0.24	0.03	9.64	27.62	37.29	52.17	-14.88	Average
4	0.24	0.03	9.64	38.08	47.75	62.17	-14.42	QP
5	0.61	0.07	9.64	22.82	32.53	46.00	-13.47	Average
6	0.61	0.07	9.64	30.50	40.21	56.00	-15.79	QP
7	1.35	0.12	9.70	18.52	28.34	46.00	-17.66	Average
8	1.35	0.12	9.70	27.87	37.69	56.00	-18.31	QP
9	4.98	0.17	9.71	11.52	21.40	46.00	-24.60	Average
10	4.98	0.17	9.71	20.34	30.22	56.00	-25.78	QP
11	6.45	0.17	9.75	10.01	19.93	50.00	-30.07	Average
12	6.45	0.17	9.75	19.18	29.10	60.00	-30.90	QP

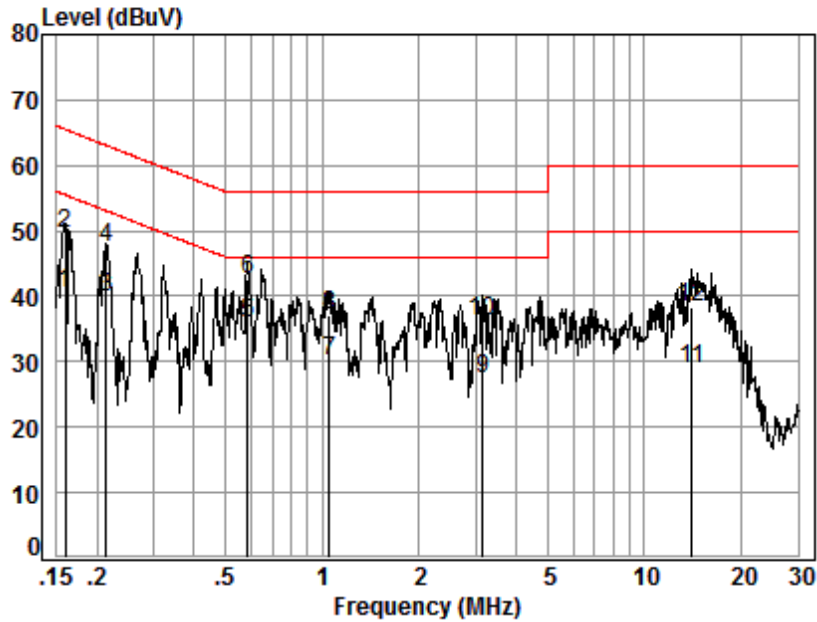


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Mode:h; Line:Live Line



Site : Shielding Room
 Condition: Line
 Job No. : 11311CR
 Test mode: h

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.66	30.85	40.52	55.52	-15.00	Average
2	0.16	0.01	9.66	39.99	49.66	65.52	-15.86	QP
3	0.21	0.02	9.66	30.28	39.96	53.05	-13.09	Average
4	0.21	0.02	9.66	37.64	47.32	63.05	-15.73	QP
5	0.59	0.07	9.67	26.24	35.98	46.00	-10.02	Average
6	0.59	0.07	9.67	32.89	42.63	56.00	-13.37	QP
7	1.05	0.09	9.74	20.26	30.09	46.00	-15.91	Average
8	1.05	0.09	9.74	27.36	37.19	56.00	-18.81	QP
9	3.16	0.16	9.71	17.58	27.45	46.00	-18.55	Average
10	3.16	0.16	9.71	26.28	36.15	56.00	-19.85	QP
11	14.06	0.20	10.27	18.44	28.91	50.00	-21.09	Average
12	14.06	0.20	10.27	27.74	38.21	60.00	-21.79	QP

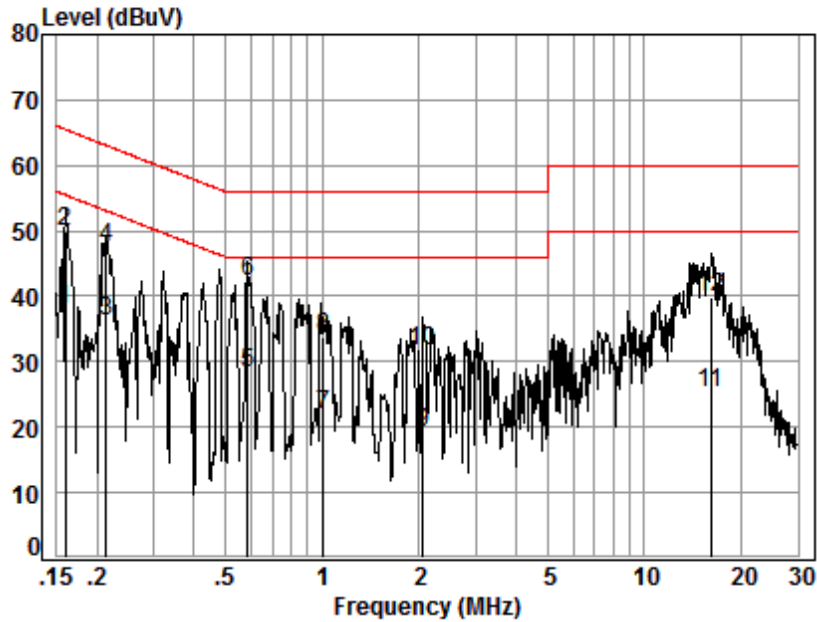


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Mode:h; Line:Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 11311CR
 Test mode: h

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.64	28.37	38.02	55.47	-17.45	Average
2	0.16	0.01	9.64	40.37	50.02	65.47	-15.45	QP
3	0.21	0.02	9.64	26.46	36.12	53.05	-16.93	Average
4	0.21	0.02	9.64	37.84	47.50	63.05	-15.55	QP
5	0.59	0.07	9.64	18.68	28.39	46.00	-17.61	Average
6	0.59	0.07	9.64	32.45	42.16	56.00	-13.84	QP
7	1.00	0.09	9.71	12.22	22.02	46.00	-23.98	Average
8	1.00	0.09	9.71	24.05	33.85	56.00	-22.15	QP
9	2.05	0.16	9.69	9.32	19.17	46.00	-26.83	Average
10	2.05	0.16	9.69	21.66	31.51	56.00	-24.49	QP
11	16.05	0.22	10.31	14.65	25.18	50.00	-24.82	Average
12	16.05	0.22	10.31	29.31	39.84	60.00	-20.16	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



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6.2.1 E.U.T. Operation

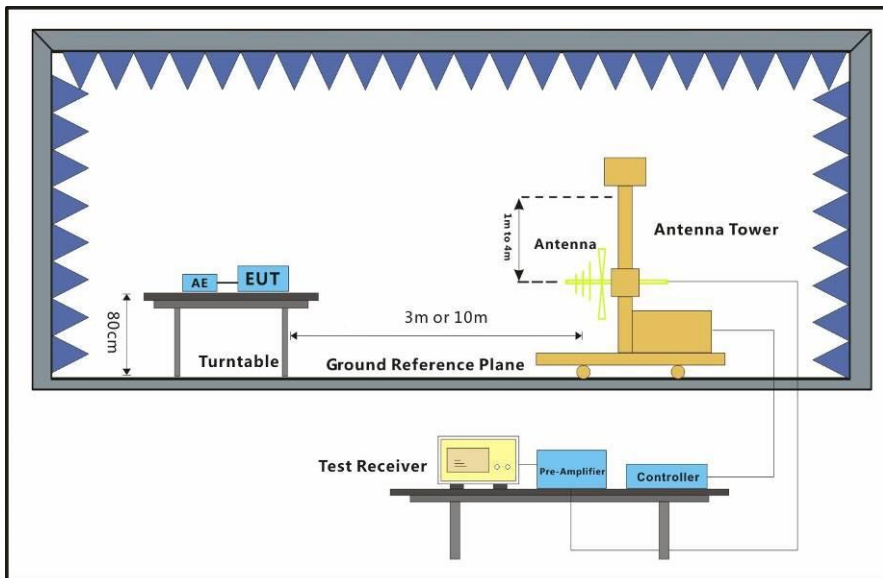
Operating Environment:

Temperature: 22.9 °C Humidity: 51.5 % RH Atmospheric Pressure: 1015 mbar

The worst case for final test:

- a: Transfer data between the EUT and the PC + cable1+ battery1
- b: Transfer data between the EUT and the PC + cable2+ battery1
- c: Transfer data between the EUT and the PC + cable3+ battery1
- d: Transfer data between the EUT and the PC + cable4+ battery1
- e: Telecom Idle + FM+BT + WLAN + GPS Rx + playing MP4 (SD card) + earphone1 + battery1 + adapter1
- f: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Front) + earphone2 + battery1 + adapter2
- g: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Back) + earphone3 + battery1 + adapter3
- h: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Back) + earphone4 + battery1 + adapter4

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.



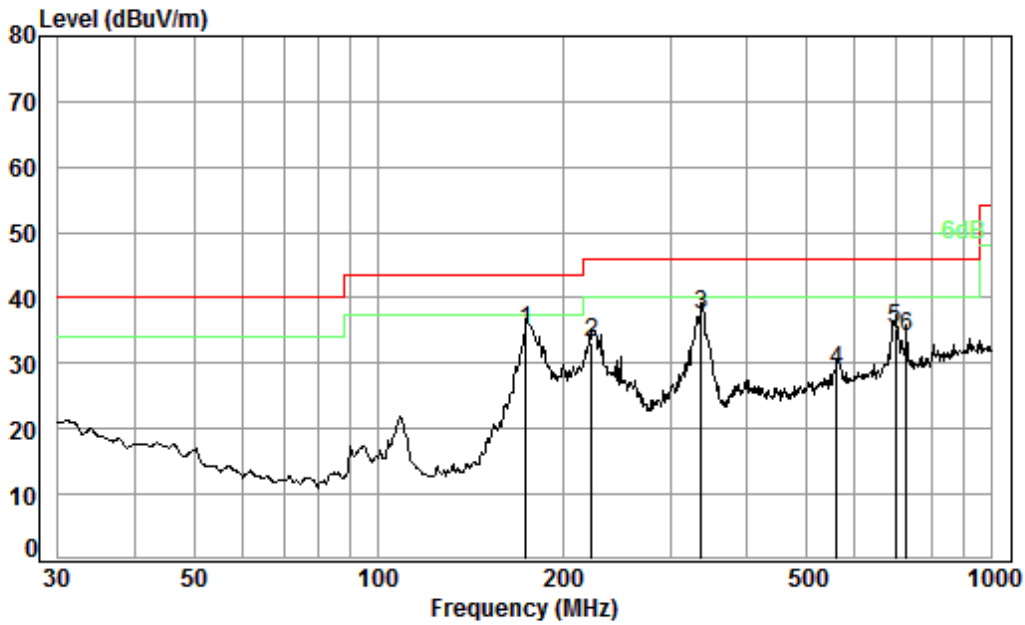
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Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL
 Job No. : 11311CR
 Test mode: a

	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	174.42	1.36	15.79	26.99	44.74	34.90	43.50	-8.60
2	222.95	1.53	17.44	26.83	41.16	33.30	46.00	-12.70
3	336.04	2.02	20.70	26.85	41.47	37.34	46.00	-8.66
4	560.69	2.66	25.86	27.82	28.09	28.79	46.00	-17.21
5	699.30	2.90	27.89	27.78	32.36	35.37	46.00	-10.63
6	729.36	2.99	28.08	27.74	30.67	34.00	46.00	-12.00

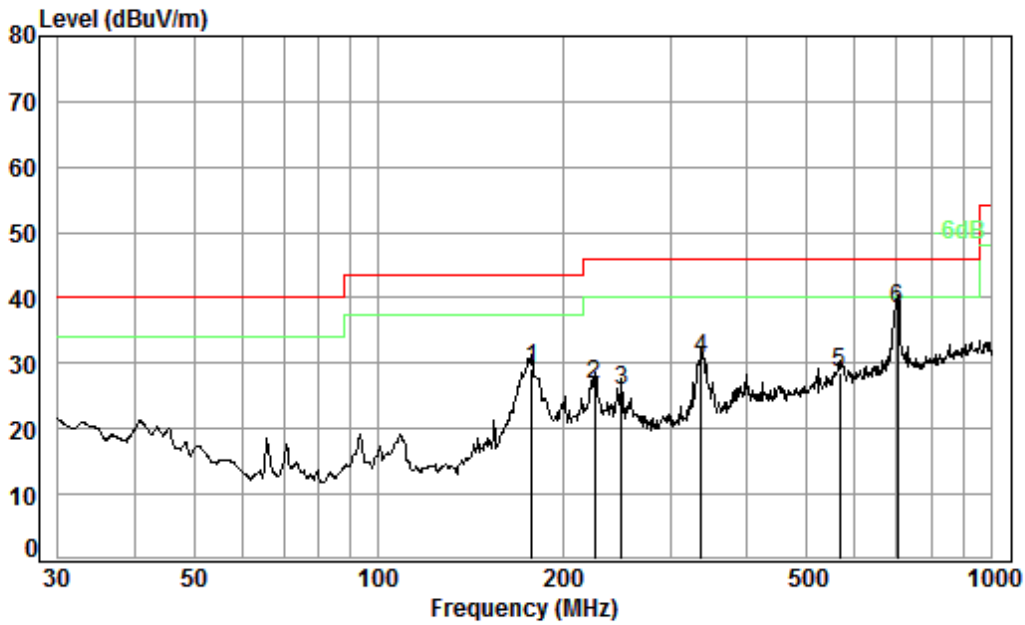


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Mode:a; Polarization:Vertical



Condition: 3m VERTICAL
 Job No. : 11311CR
 Test mode: a

	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	178.13	1.37	15.86	26.98	39.06	29.31	43.50	-14.19
2	225.31	1.55	17.64	26.83	34.27	26.63	46.00	-19.37
3	249.43	1.67	18.94	26.76	31.95	25.80	46.00	-20.20
4	337.22	2.02	20.74	26.86	34.79	30.69	46.00	-15.31
5	566.62	2.67	25.97	27.84	27.75	28.55	46.00	-17.45
6 pp	704.23	2.92	27.93	27.78	35.32	38.39	46.00	-7.61

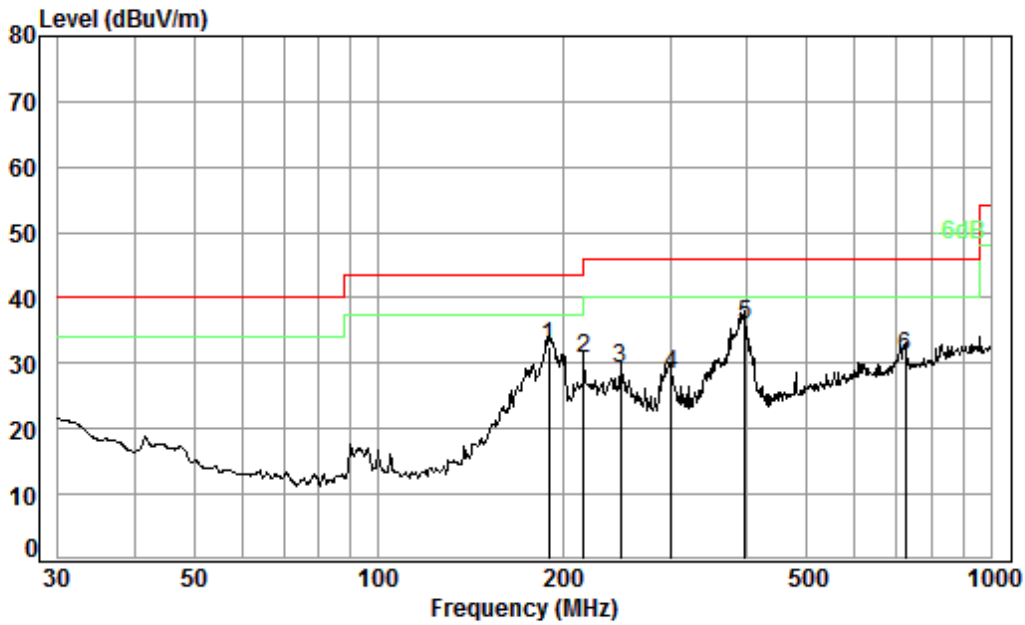


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Mode:b; Polarization:Horizontal



Condition: 3m HORIZONTAL
 Job No. : 11311CR
 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	189.74	1.38	16.20	26.94	41.80	32.44	43.50	-11.06
2	216.02	1.49	17.07	26.85	38.92	30.63	46.00	-15.37
3	248.55	1.67	18.93	26.76	35.36	29.20	46.00	-16.80
4	300.37	1.90	19.61	26.64	33.29	28.16	46.00	-17.84
5 pp	396.24	2.19	22.31	27.17	38.55	35.88	46.00	-10.12
6	724.26	2.98	28.05	27.75	27.82	31.10	46.00	-14.90

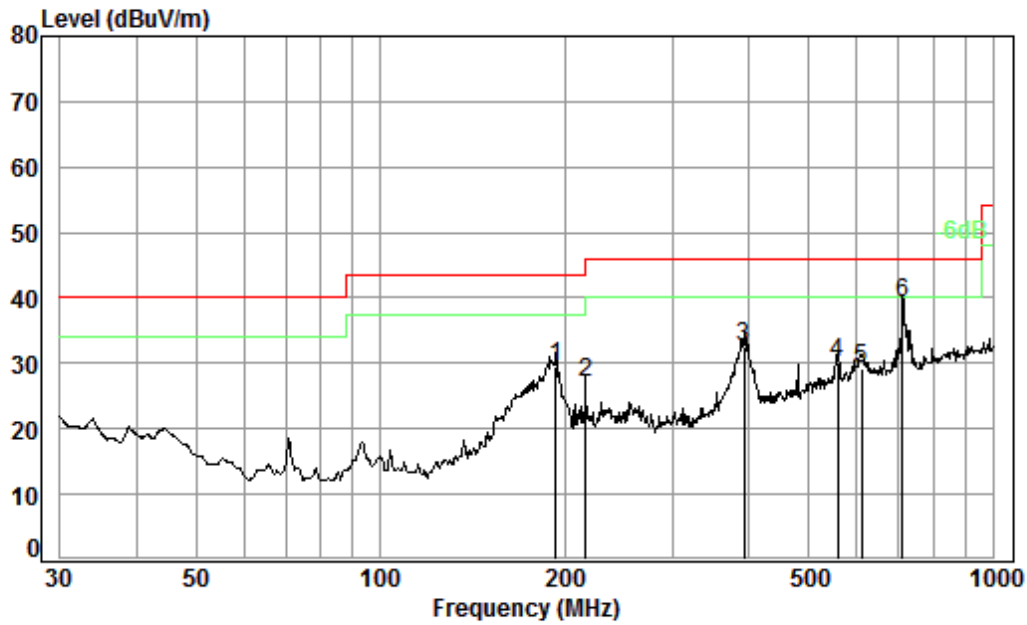


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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL
 Job No. : 11311CR
 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	193.77	1.39	16.32	26.92	38.74	29.53	43.50	-13.97
2	216.02	1.49	17.07	26.85	35.28	26.99	46.00	-19.01
3	392.10	2.18	22.21	27.15	35.46	32.70	46.00	-13.30
4	558.73	2.66	25.82	27.82	29.38	30.04	46.00	-15.96
5	609.92	2.72	26.74	27.93	27.82	29.35	46.00	-16.65
6 pp	711.67	2.94	27.97	27.77	35.96	39.10	46.00	-6.90

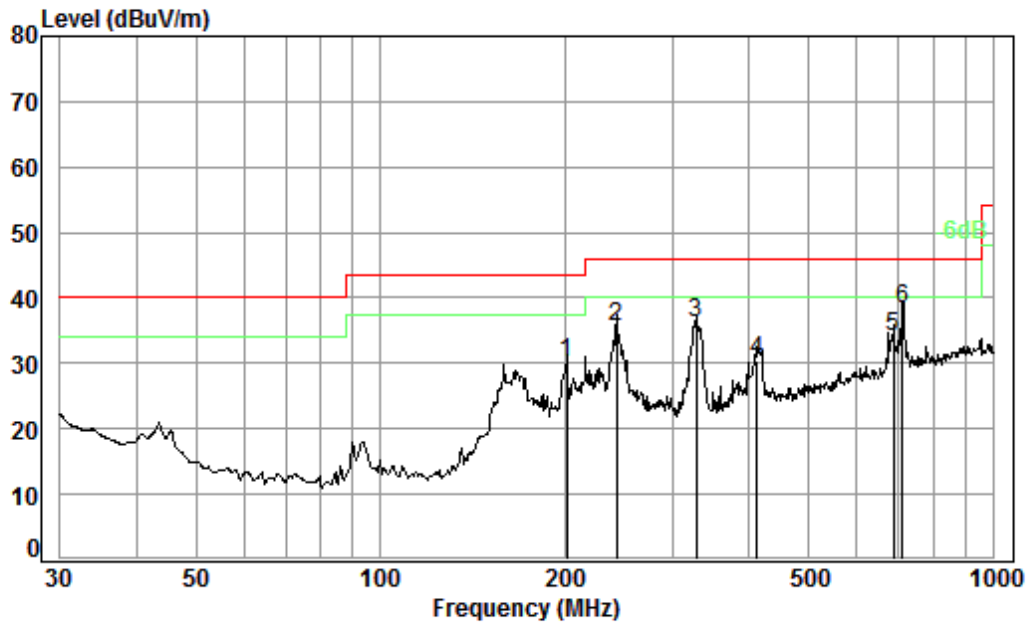


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Mode:c; Polarization:Horizontal



Condition: 3m HORIZONTAL
 Job No. : 11311CR
 Test mode: c

	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	201.39	1.41	16.55	26.90	39.14	30.20	43.50	-13.30
2	243.38	1.64	18.85	26.78	41.73	35.44	46.00	-10.56
3	327.89	1.99	20.47	26.81	40.61	36.26	46.00	-9.74
4	411.82	2.25	22.69	27.24	32.84	30.54	46.00	-15.46
5	689.56	2.88	27.77	27.80	31.17	34.02	46.00	-11.98
6 pp	711.67	2.94	27.97	27.77	35.07	38.21	46.00	-7.79

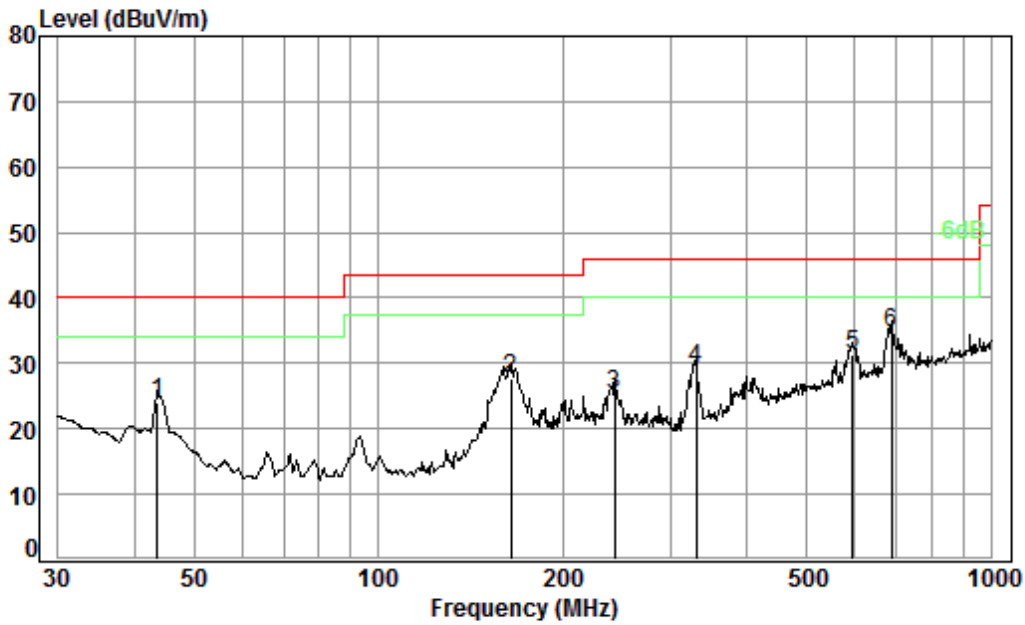


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Mode:c; Polarization:Vertical



Condition: 3m VERTICAL
 Job No. : 11311CR
 Test mode: c

	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	43.51	0.68	16.26	27.42	34.42	23.94	40.00	-16.06
2	164.91	1.34	15.60	27.03	37.82	27.73	43.50	-15.77
3	243.38	1.64	18.85	26.78	31.60	25.31	46.00	-20.69
4	330.19	2.00	20.53	26.82	33.40	29.11	46.00	-16.89
5	595.13	2.70	26.51	27.93	30.00	31.28	46.00	-14.72
6 pp	687.15	2.88	27.74	27.80	31.72	34.54	46.00	-11.46

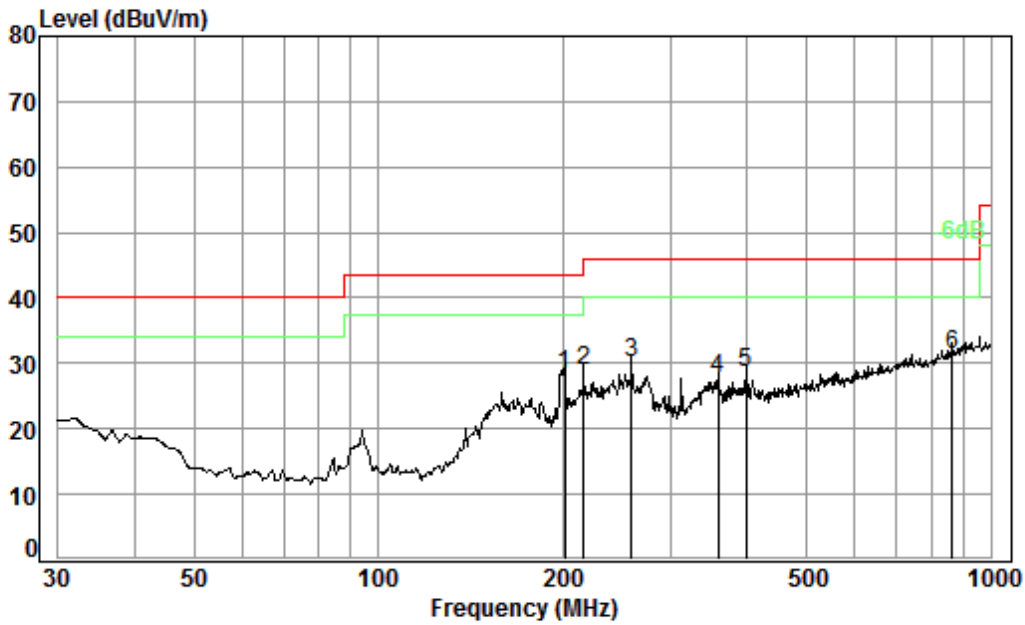


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Mode:d; Polarization:Horizontal



Condition: 3m HORIZONTAL
 Job No. : 11311CR
 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	201.39	1.41	16.55	26.90	37.20	28.26	43.50	-15.24
2	216.02	1.49	17.07	26.85	37.30	29.01	46.00	-16.99
3	259.23	1.72	19.09	26.73	36.04	30.12	46.00	-15.88
4	359.19	2.09	21.35	26.98	31.11	27.57	46.00	-18.43
5	399.03	2.20	22.38	27.18	31.08	28.48	46.00	-17.52
6 pp	866.09	3.47	29.38	27.25	25.67	31.27	46.00	-14.73

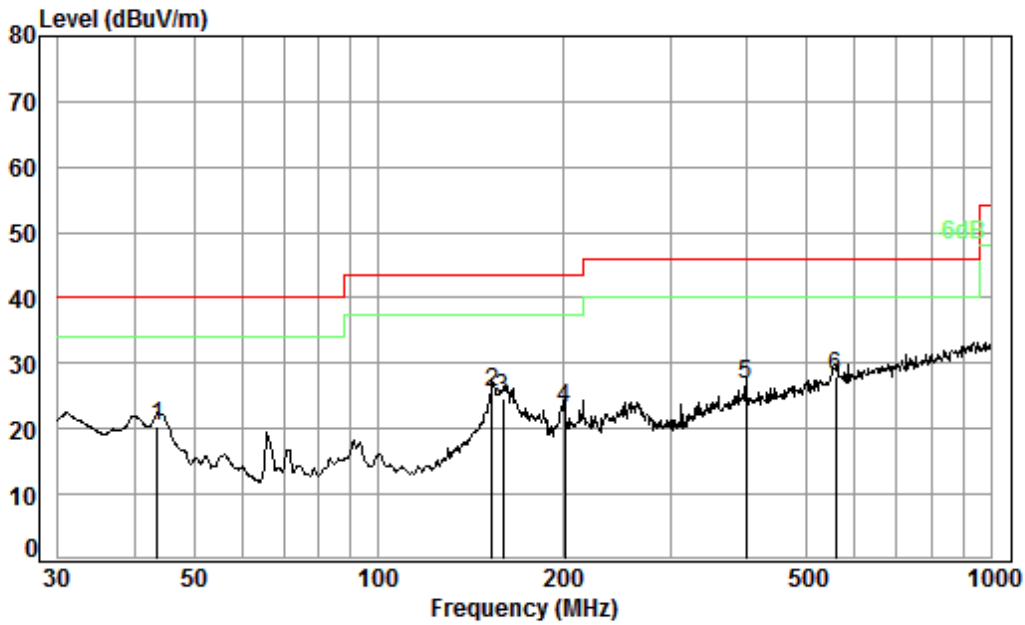


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Mode:d; Polarization:Vertical



Condition: 3m VERTICAL
 Job No. : 11311CR
 Test mode: d

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	43.51	0.68	16.26	27.42	30.93	20.45	40.00	-19.55
2 pp	153.20	1.32	14.91	27.07	36.31	25.47	43.50	-18.03
3	159.78	1.34	15.48	27.05	34.80	24.57	43.50	-18.93
4	201.39	1.41	16.55	26.90	32.01	23.07	43.50	-20.43
5	399.03	2.20	22.38	27.18	29.27	26.67	46.00	-19.33
6	558.73	2.66	25.82	27.82	27.28	27.94	46.00	-18.06

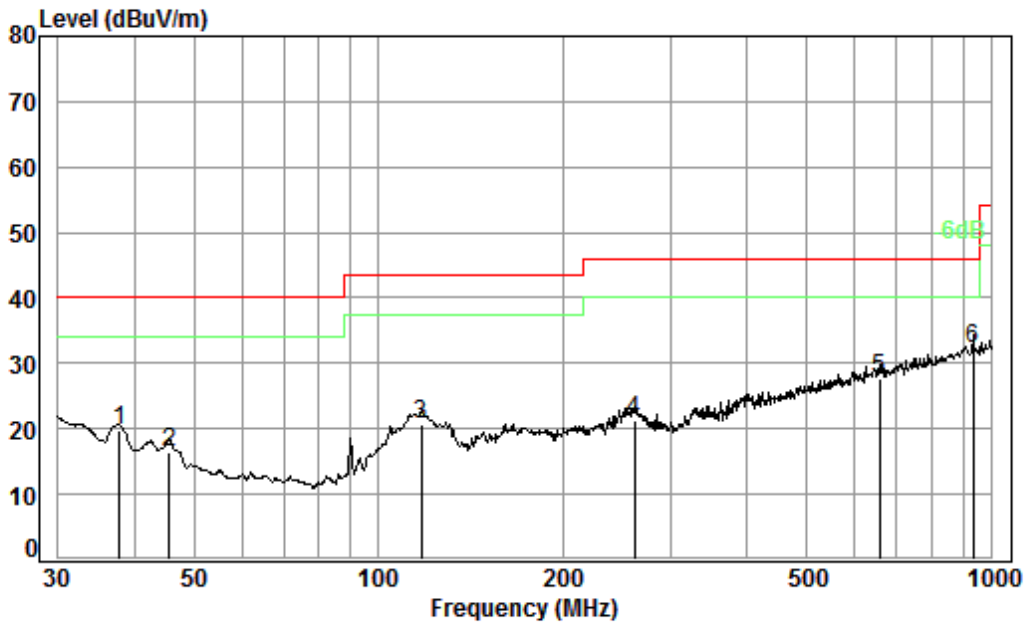


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Mode:e; Polarization:Horizontal



Condition: 3m HORIZONTAL
 Job No. : 11311CR
 Test mode: e

	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	37.81	0.60	18.48	27.43	28.04	19.69	40.00	-20.31
2	45.53	0.72	15.58	27.42	27.69	16.57	40.00	-23.43
3	117.36	1.25	13.21	27.25	33.48	20.69	43.50	-22.81
4	261.98	1.73	19.07	26.73	27.29	21.36	46.00	-24.64
5	658.84	2.82	27.39	27.85	25.45	27.81	46.00	-18.19
6 pp	935.55	3.64	29.98	26.86	25.51	32.27	46.00	-13.73

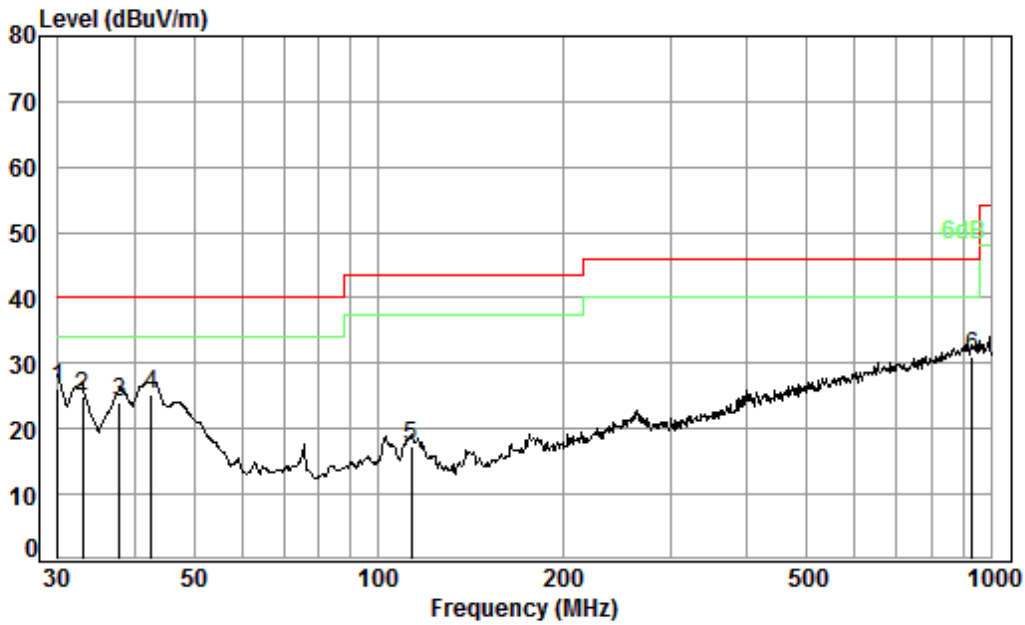


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Mode:e; Polarization:Vertical



Condition: 3m VERTICAL
 Job No. : 11311CR
 Test mode: e

	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	30.00	0.60	22.50	27.45	30.57	26.22	40.00	-13.78
2		32.86	0.60	20.92	27.45	30.87	24.94	40.00	-15.06
3		37.81	0.60	18.48	27.43	32.52	24.17	40.00	-15.83
4		42.60	0.66	16.57	27.42	35.39	25.20	40.00	-14.80
5		113.32	1.24	13.38	27.27	29.85	17.20	43.50	-26.30
6		932.27	3.63	29.97	26.88	24.25	30.97	46.00	-15.03

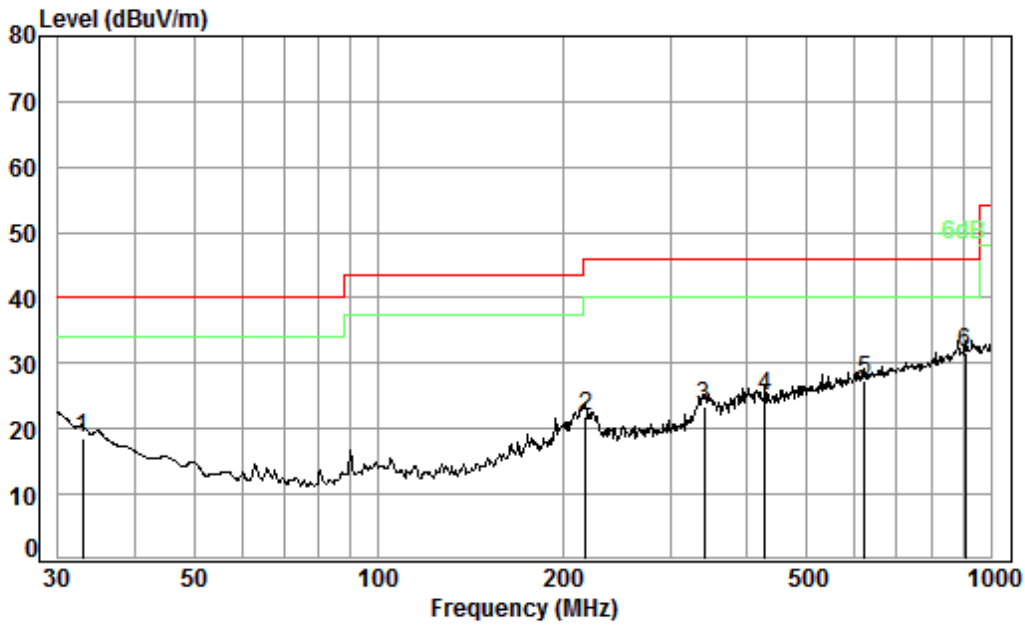


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Mode:f; Polarization:Horizontal



Condition: 3m HORIZONTAL
 Job No. : 11311CR
 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	32.86	0.60	20.92	27.45	24.57	18.64	40.00	-21.36
2	218.31	1.51	17.14	26.85	30.14	21.94	46.00	-24.06
3	340.78	2.03	20.84	26.88	27.36	23.35	46.00	-22.65
4	428.02	2.32	23.07	27.31	26.72	24.80	46.00	-21.20
5	622.89	2.75	26.92	27.91	25.59	27.35	46.00	-18.65
6 pp	906.48	3.61	29.83	27.02	25.09	31.51	46.00	-14.49

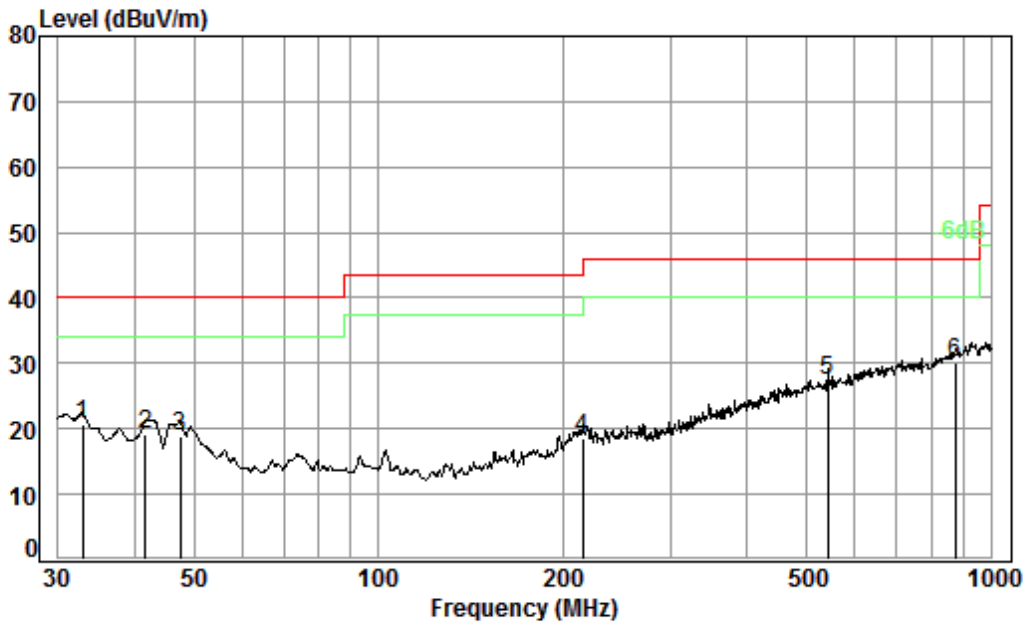


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Mode:f; Polarization:Vertical



Condition: 3m VERTICAL
 Job No. : 11311CR
 Test mode: f

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.86	0.60	20.92	27.45	26.62	20.69	40.00	-19.31
2	41.71	0.64	16.88	27.43	29.14	19.23	40.00	-20.77
3	47.49	0.75	14.96	27.41	30.65	18.95	40.00	-21.05
4	215.27	1.49	17.04	26.85	26.96	18.64	43.50	-24.86
5	541.37	2.64	25.47	27.76	26.94	27.29	46.00	-18.71
6 pp	875.25	3.51	29.49	27.19	24.40	30.21	46.00	-15.79

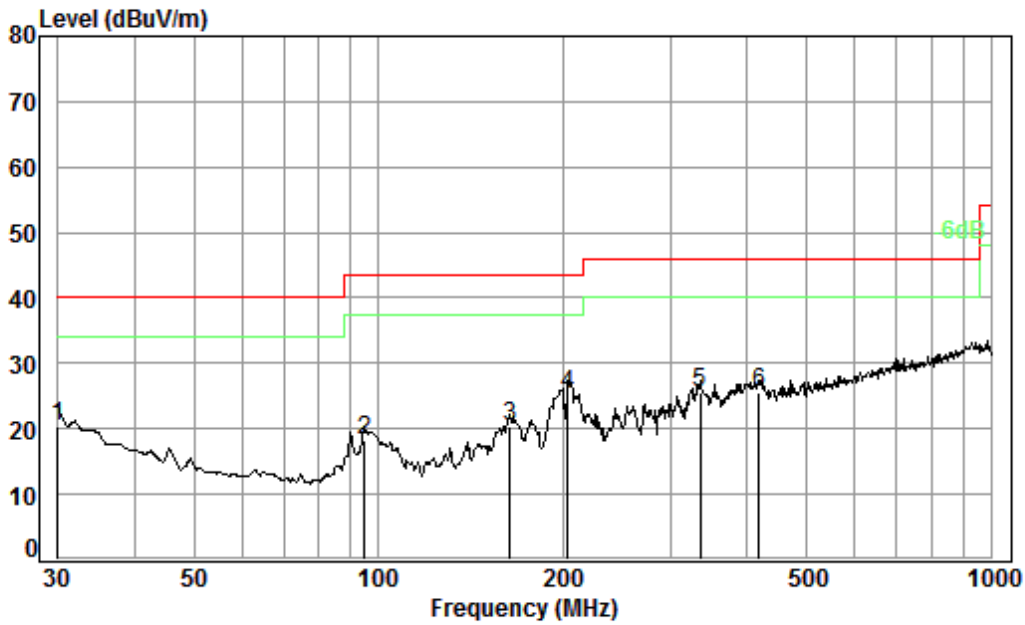


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Mode:g; Polarization:Horizontal



Condition: 3m HORIZONTAL
 Job No. : 11311CR
 Test mode: g

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.60	22.50	27.45	24.72	20.37	40.00	-19.63
2	95.09	1.15	13.57	27.35	30.98	18.35	43.50	-25.15
3	163.76	1.34	15.58	27.03	30.38	20.27	43.50	-23.23
4 pp	203.52	1.42	16.63	26.89	34.18	25.34	43.50	-18.16
5	334.86	2.01	20.67	26.85	29.63	25.46	46.00	-20.54
6	417.64	2.28	22.83	27.27	27.65	25.49	46.00	-20.51

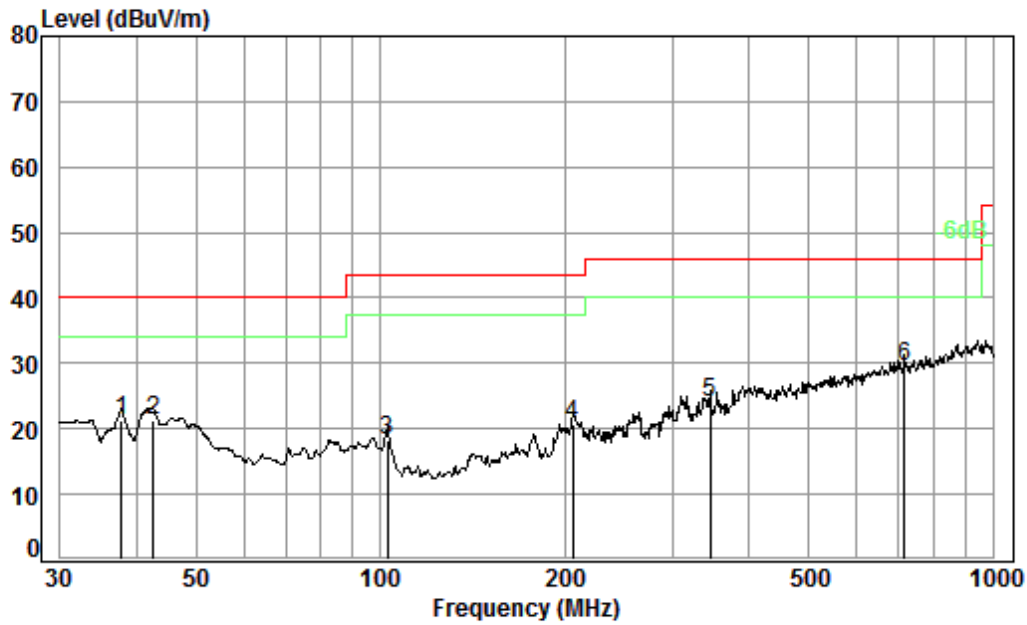


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Mode:g; Polarization:Vertical



Condition: 3m VERTICAL
 Job No. : 11311CR
 Test mode: g

	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	37.81	0.60	18.48	27.43	29.56	21.21	40.00	-18.79
2	42.60	0.66	16.57	27.42	31.35	21.16	40.00	-18.84
3	102.72	1.21	13.87	27.33	30.55	18.30	43.50	-25.20
4	206.40	1.44	16.73	26.88	29.26	20.55	43.50	-22.95
5	345.60	2.05	20.98	26.91	27.86	23.98	46.00	-22.02
6 pp	716.68	2.96	28.01	27.76	26.18	29.39	46.00	-16.61

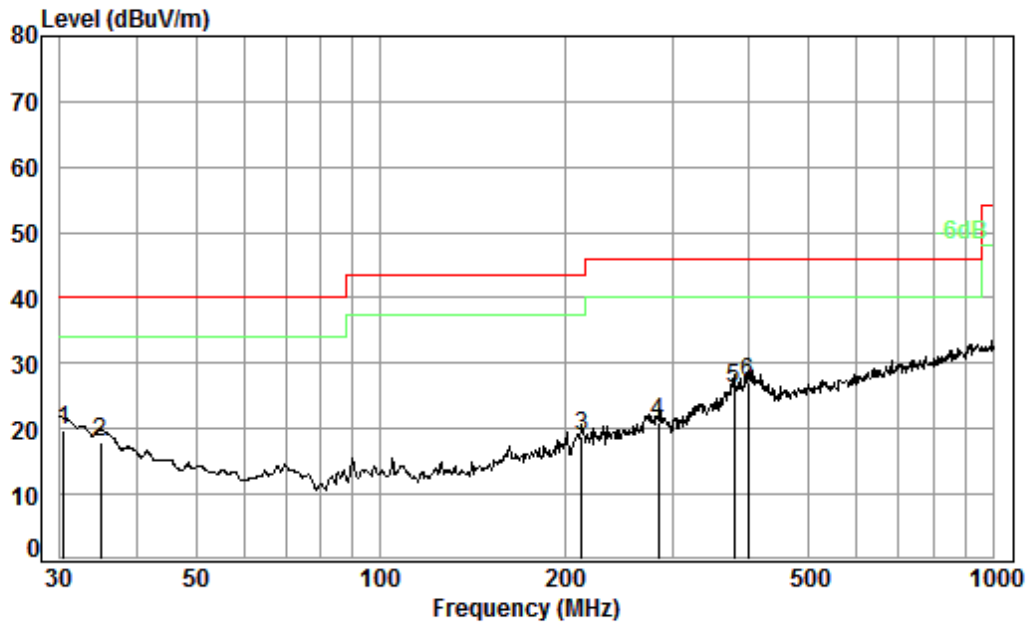


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Mode:h; Polarization:Horizontal



Condition: 3m HORIZONTAL
 Job No. : 11311CR
 Test mode: h

	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	30.42	0.60	22.26	27.45	24.26	19.67	40.00	-20.33
2	34.88	0.60	19.88	27.44	25.00	18.04	40.00	-21.96
3	213.02	1.48	16.96	26.86	27.15	18.73	43.50	-24.77
4	284.98	1.84	19.00	26.67	26.82	20.99	46.00	-25.01
5	378.58	2.14	21.86	27.08	29.25	26.17	46.00	-19.83
6 pp	399.03	2.20	22.38	27.18	29.63	27.03	46.00	-18.97

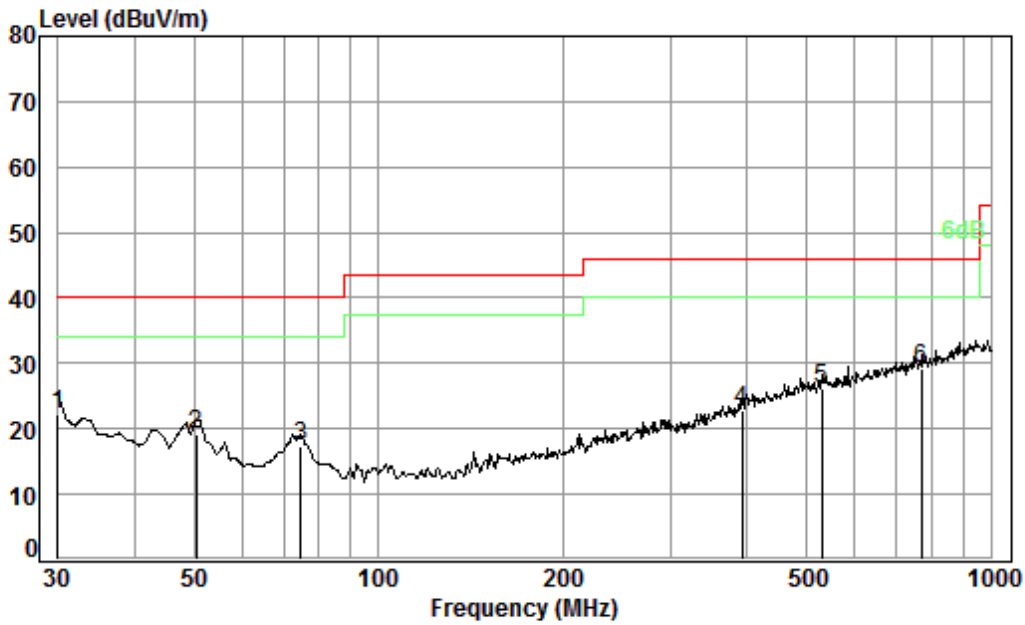


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Mode:h; Polarization:Vertical



Condition: 3m VERTICAL
 Job No. : 11311CR
 Test mode: h

	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	30.00	0.60	22.50	27.45	26.66	22.31	40.00	-17.69
2	50.41	0.80	14.16	27.41	31.67	19.22	40.00	-20.78
3	74.66	0.94	12.41	27.38	31.29	17.26	40.00	-22.74
4	392.10	2.18	22.21	27.15	25.47	22.71	46.00	-23.29
5	530.10	2.63	25.24	27.72	26.16	26.31	46.00	-19.69
6 pp	768.75	3.11	28.32	27.68	25.52	29.27	46.00	-16.73



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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(dBμV/m) peak, 54(dBμV/m) average
Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHZ



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6.3.1 E.U.T. Operation

Operating Environment:

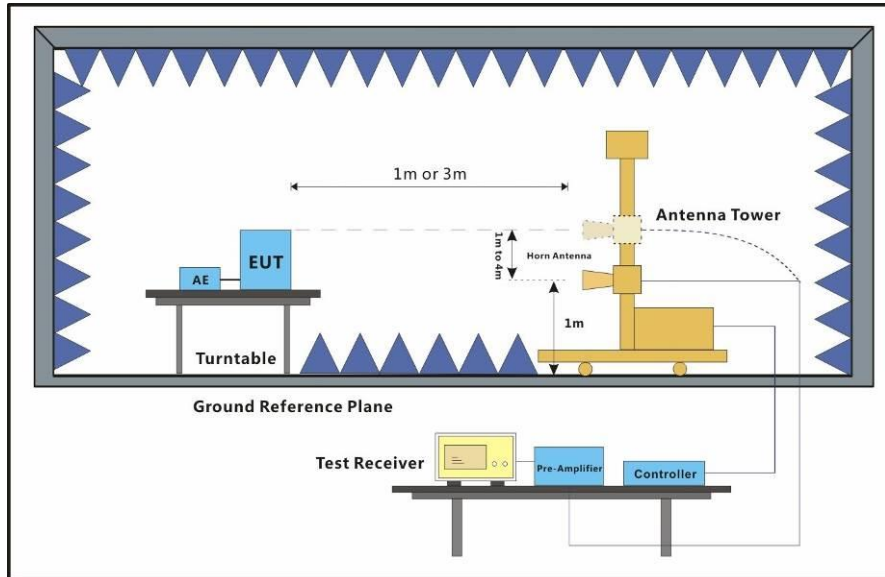
Temperature: 22 °C Humidity: 58 % RH Atmospheric Pressure: 1015 mbar

The worst case a: Transfer data between the EUT and the PC + cable1+ battery1

for final test: f: Telecom Idle + FM+BT + WLAN + GPS Rx + camera (Front) + earphone2 + battery1 + adapter2

i: GSM 850 + FM+ BT + WLAN + GPS Rx + earphone1 + battery1 + adapter1

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.

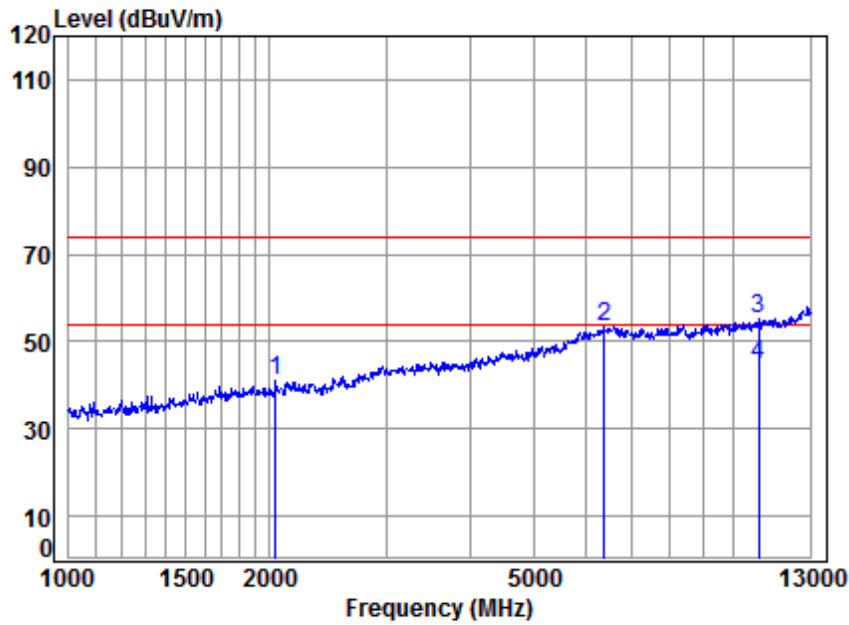


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Mode:a; Polarization:Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 11311CR
 Mode : a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2045.456	4.97	27.89	41.02	49.12	40.96	74.00	-33.04	Peak
2	6371.873	11.30	35.48	42.51	49.29	53.56	74.00	-20.44	Peak
3	10863.440	11.54	37.77	38.21	44.12	55.22	74.00	-18.78	Peak
4	10863.440	11.54	37.77	38.21	33.80	44.90	54.00	-9.10	Average

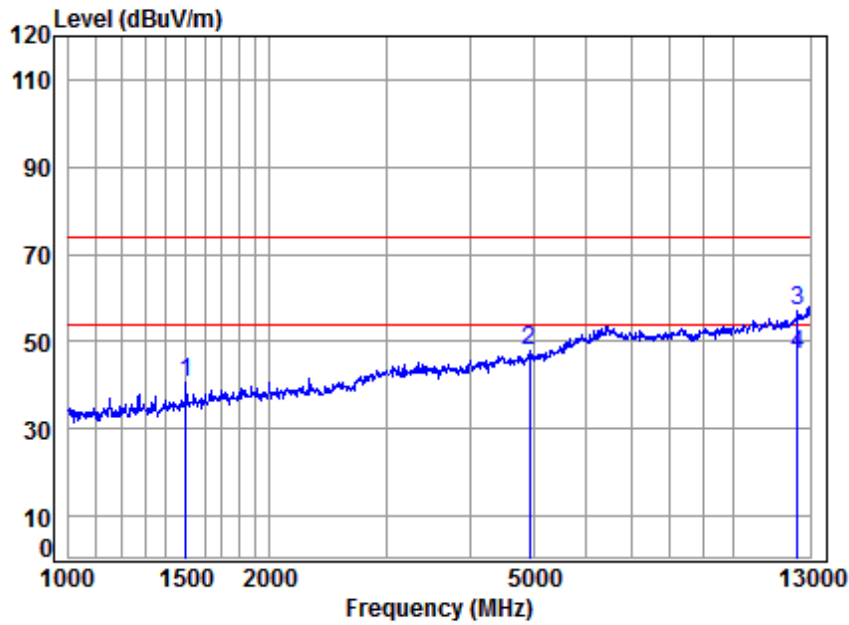


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Mode:a; Polarization:Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 11311CR
 Mode : a

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1499.695	5.48	25.80	40.71	49.98	40.55	74.00	-33.45	Peak
2	4917.664	8.01	34.11	43.72	49.45	47.85	74.00	-26.15	Peak
3	12445.330	12.64	37.88	39.03	45.76	57.25	74.00	-16.75	Peak
4	12445.330	12.64	37.88	39.03	35.60	47.09	54.00	-6.91	Average

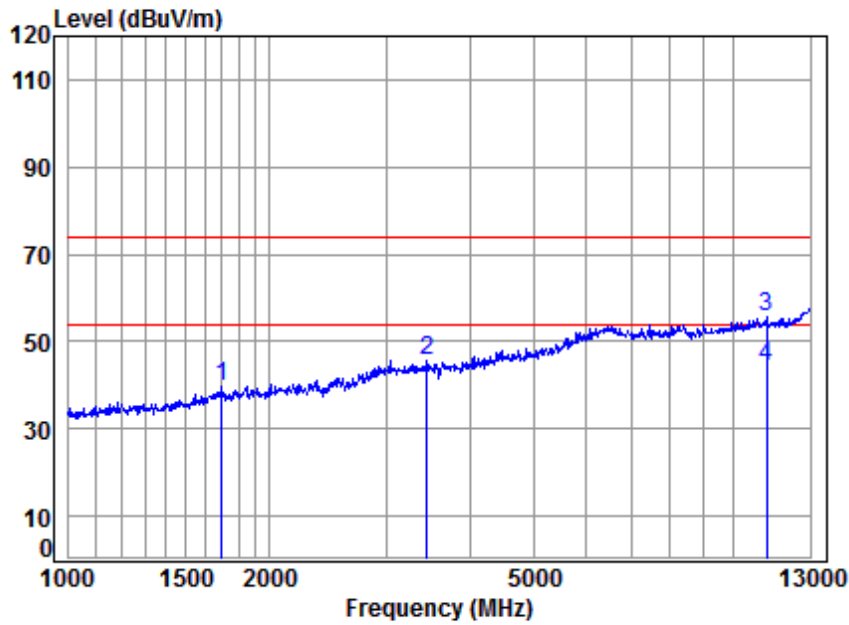


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Mode:f; Polarization:Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 11311CR
 Mode : f

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1700.538	5.23	26.67	40.83	48.48	39.55	74.00	-34.45	Peak
2	3451.713	6.42	31.63	42.06	49.73	45.72	74.00	-28.28	Peak
3	11203.010	11.84	37.84	38.36	44.37	55.69	74.00	-18.31	Peak
4	11203.010	11.84	37.84	38.36	32.98	44.30	54.00	-9.70	Average

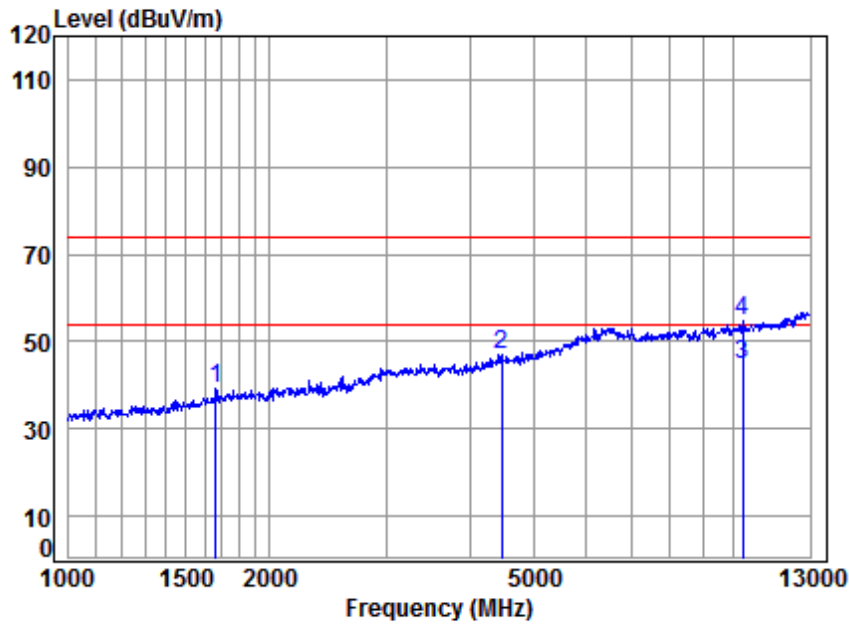


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Mode:f; Polarization:Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 11311CR
 Mode : f

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1665.999	5.27	26.53	40.81	48.12	39.11	74.00	-34.89 Peak
2	4472.423	7.53	33.55	43.28	49.15	46.95	74.00	-27.05 Peak
3	10293.770	11.15	37.78	37.94	33.62	44.61	54.00	-9.39 Average
4	10293.770	11.15	37.78	37.94	43.66	54.65	74.00	-19.35 Peak

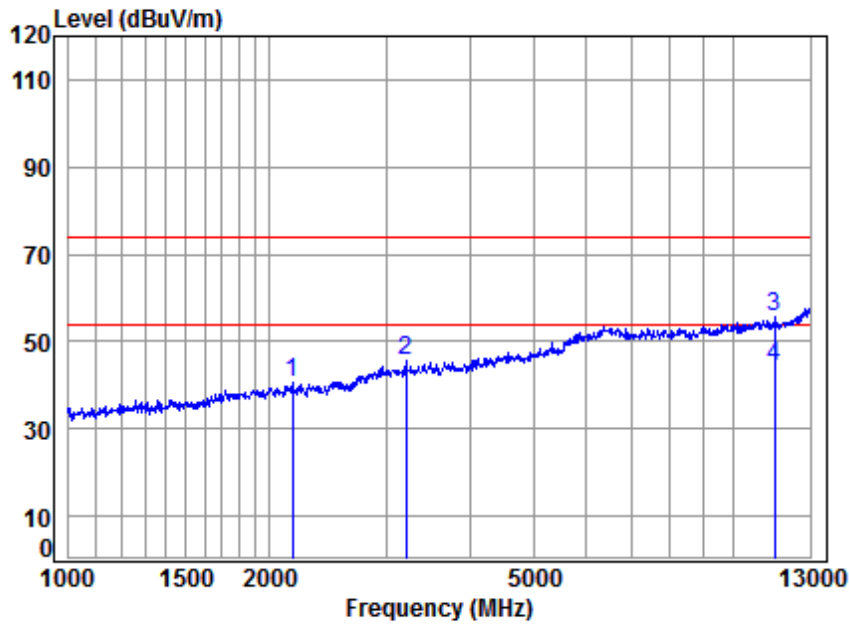


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Mode:i; Polarization:Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 11311CR
 Mode : i

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2169.756	5.16	28.13	41.08	48.36	40.57	74.00	-33.43	Peak
2	3212.508	6.19	31.26	41.72	49.79	45.52	74.00	-28.48	Peak
3	11494.080	12.13	37.90	38.49	44.17	55.71	74.00	-18.29	Peak
4	11494.080	12.13	37.90	38.49	32.59	44.13	54.00	-9.87	Average

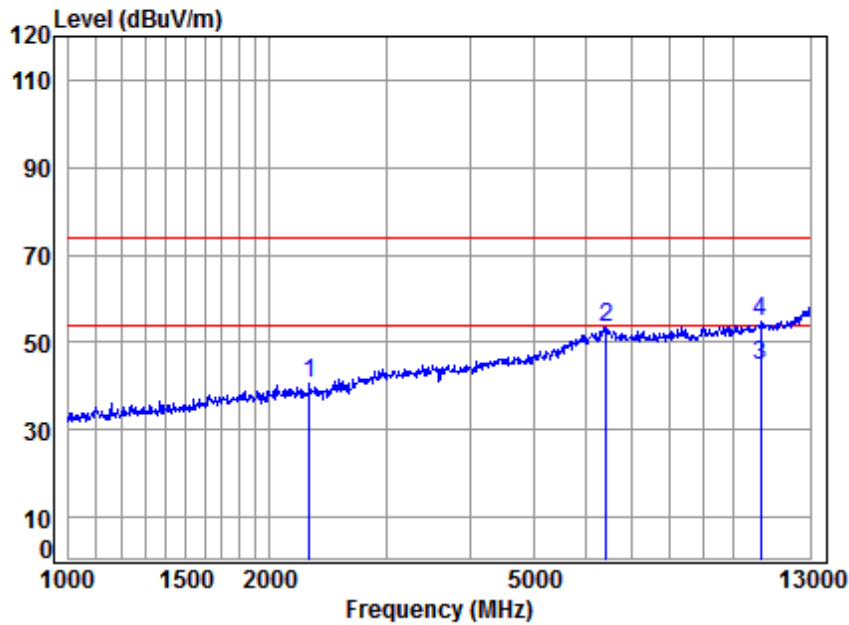


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Mode:i; Polarization:Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No : 11311CR
 Mode : i

	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	2295.713	5.34	28.36	41.13	48.17	40.74	74.00	-33.26	Peak
2	6421.093	11.39	35.52	42.47	48.98	53.42	74.00	-20.58	Peak
3	10947.350	11.59	37.79	38.25	33.64	44.77	54.00	-9.23	Average
4	10947.350	11.59	37.79	38.25	43.65	54.78	74.00	-19.22	Peak



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7 Photographs

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

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

7.3 EUT Constructional Details (EUT Photos)

Refer to Appendix A - Photographs of EUT Constructional Details for ZR/2019/20008.

- End of the Report -



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