

TEST REPORT

Application No.: SZCR2509004144WM
Applicant: TCL Communication Ltd.,
Address of Applicant: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Manufacturer: TCL Communication Ltd.
Address of Manufacturer: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

Equipment Under Test (EUT):

EUT Name: GSM/UMTS/LTE/NR Mobile phone
Model No.: T440G
FCC ID: 2ACCCJH201
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2025-09-19
Date of Test: 2025-09-22 to 2025-10-09
Date of Issue: 2025-10-30

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
EMC Laboratory Manager



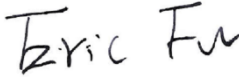
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SZEMC-TRF-01 Rev. A/1

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-10-30		Original

Authorized for issue by:				
				
		Charlie Dai/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	15.107(a);Class B	Pass
Radiated Emissions (30MHz-1GHz)		ANSI C63.4-2014	15.109(a);Class B	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4-2014	15.109(g);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:	Powered by DC3.87V/2900mAh by Rechargeable Li-ion Battery. Charged by USB port from adapter or charging base. Adapter: Model: UC13US Input: 100-240V 50/60Hz 0.5A Output: 5.0V 2A Docking Station: Model: DST440G Input: 5.0V 2A Output: 5.0V 2A EUT1: Battery model: TLp029N7 EUT2: Battery model: TLp029N9
Cable(s):	USB-A to C cable from 100cm shielded
Internal Source:	Greater than 108MHz

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Earphone	SENNHEISER	MX 375 EAST	REF. No.SEA10B00
Laptop	Lenovo	T480	REF. No.SEA18C02G
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A00
Router	NETGEAR	DGN2200	REF. No.SEA22A00
TF Card	Kingston	SDC8GB	REF. No.SEA04A00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	$\pm 3.1\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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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, Nanshan District, 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 (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• 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	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-01-08	2026-01-07
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2025-03-03	2026-03-02

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	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04



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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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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

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: 25.3 °C

Humidity: 40.5 % RH

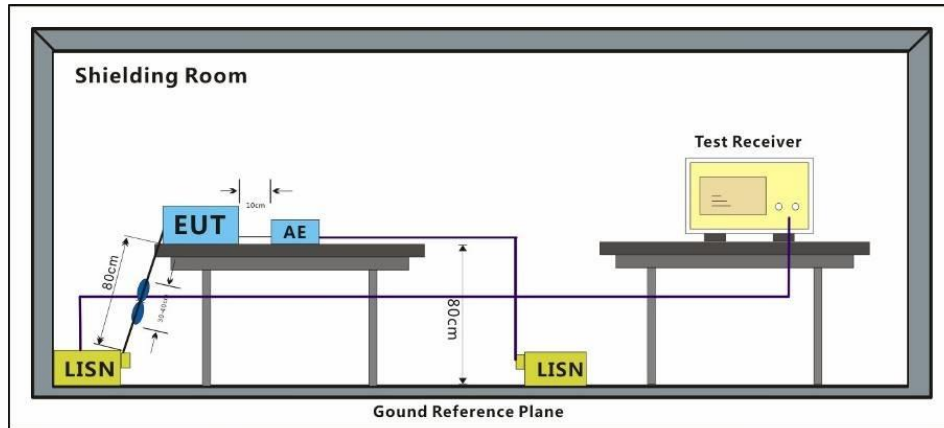
Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	Transfer data between the EUT1 and the PC+USB cable
Final test	19	Transfer data between the EUT2 and the PC+USB cable
Final test	20	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ GSM 850(RX)+Earphone
Final test	21	EUT(Worst)+adapter+Docking Station+USB Cable
Pre-scan	22	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ LTE B5(RX)+Earphone
Pre-scan	23	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ LTE B12(RX)+Earphone
Pre-scan	24	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ LTE B13(RX)+Earphone
Pre-scan	25	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ NR B5(RX)+Earphone



6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

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

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



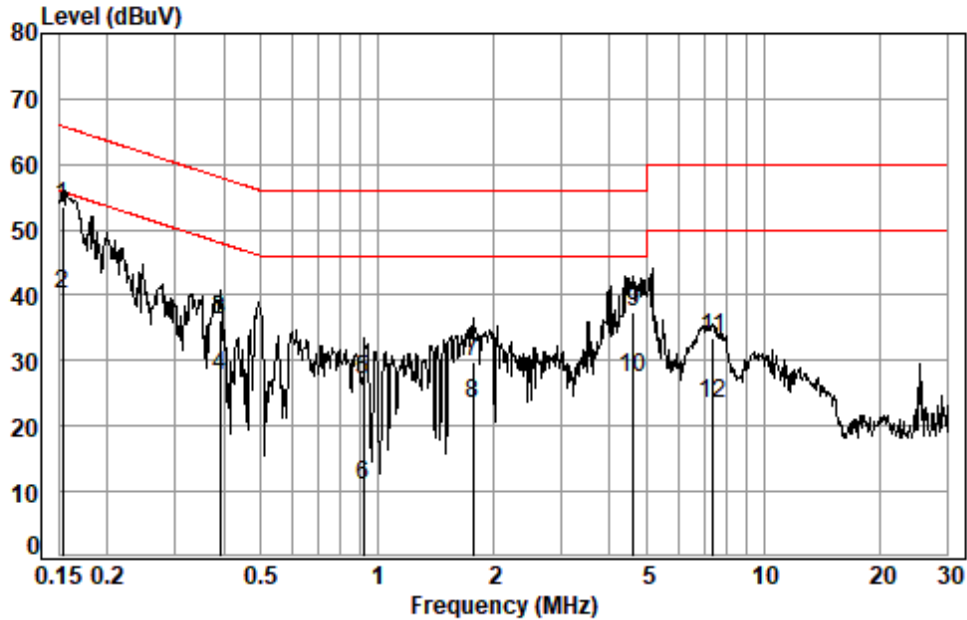
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Test Mode: 18; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 04144WM
Test mode: 18

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1532	0.06	10.19	43.14	53.39	65.82	-12.43	QP
2 *	0.1532	0.06	10.19	29.76	40.01	55.82	-15.81	Average
3	0.3914	0.09	9.69	26.31	36.09	58.03	-21.94	QP
4	0.3914	0.09	9.69	17.99	27.77	48.03	-20.26	Average
5	0.9233	0.11	9.60	17.40	27.11	56.00	-28.89	QP
6	0.9233	0.11	9.60	1.12	10.83	46.00	-35.17	Average
7	1.7716	0.12	9.58	20.11	29.81	56.00	-26.19	QP
8	1.7716	0.12	9.58	13.61	23.31	46.00	-22.69	Average
9	4.5979	0.14	9.66	27.74	37.54	56.00	-18.46	QP
10	4.5979	0.14	9.66	17.57	27.37	46.00	-18.63	Average
11	7.4071	0.15	9.68	23.67	33.50	60.00	-26.50	QP
12	7.4071	0.15	9.68	13.49	23.32	50.00	-26.68	Average



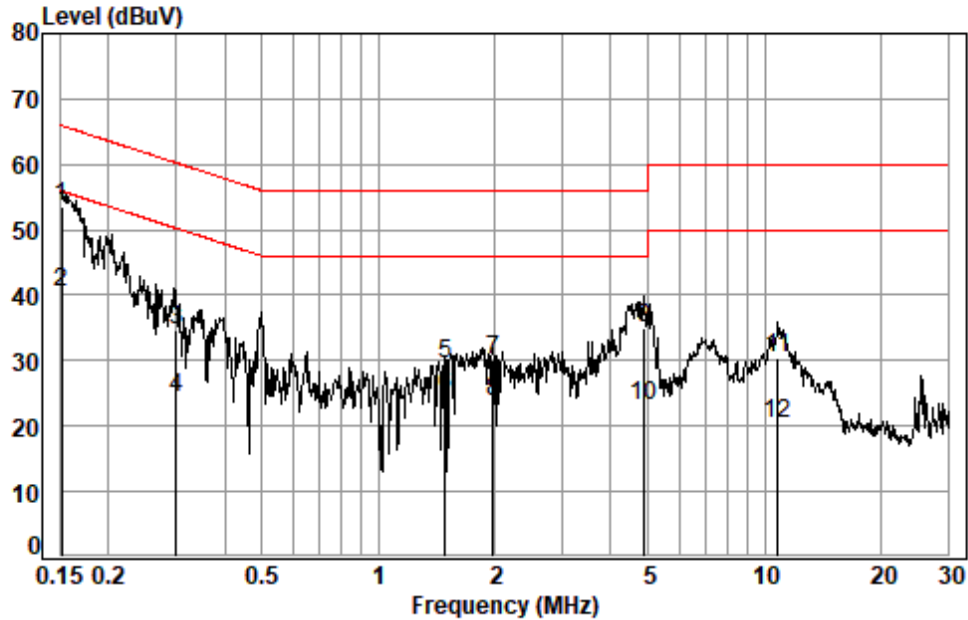
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Test Mode: 18; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 04144WM
Test mode: 18

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1516	0.06	10.15	43.45	53.66	65.91	-12.25	QP
2 *	0.1516	0.06	10.15	30.36	40.57	55.91	-15.34	Average
3	0.3003	0.08	9.77	24.73	34.58	60.24	-25.66	QP
4	0.3003	0.08	9.77	14.60	24.45	50.24	-25.79	Average
5	1.4874	0.12	9.55	19.91	29.58	56.00	-26.42	QP
6	1.4874	0.12	9.55	15.01	24.68	46.00	-21.32	Average
7	1.9801	0.12	9.55	20.36	30.03	56.00	-25.97	QP
8	1.9801	0.12	9.55	13.98	23.65	46.00	-22.35	Average
9	4.8738	0.14	9.56	25.26	34.96	56.00	-21.04	QP
10	4.8738	0.14	9.56	13.49	23.19	46.00	-22.81	Average
11	10.8474	0.15	9.63	20.79	30.57	60.00	-29.43	QP
12	10.8474	0.15	9.63	10.53	20.31	50.00	-29.69	Average



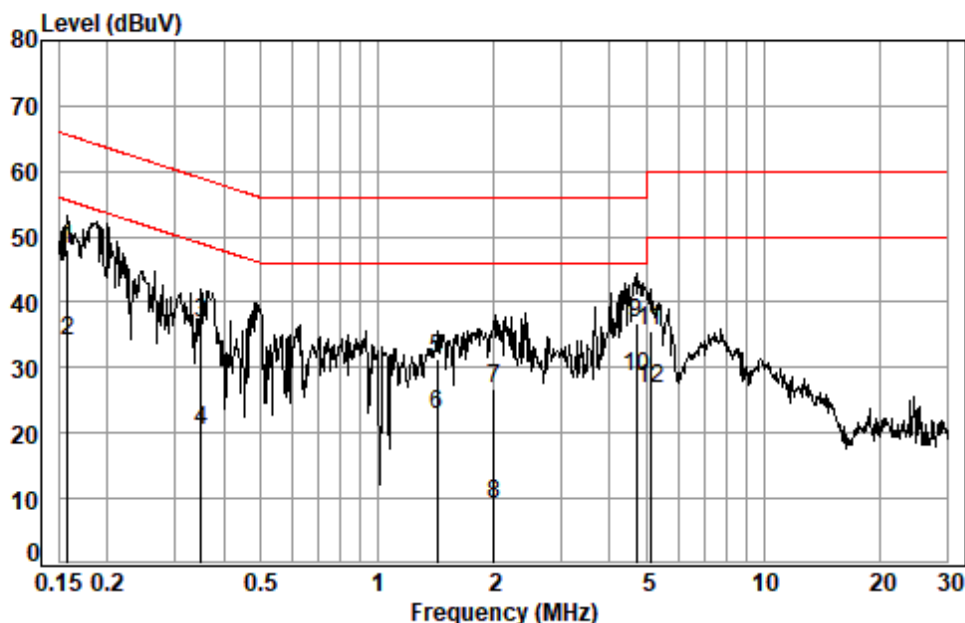
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Test Mode: 19; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 04144WM

Test mode: 19

		Cable	LISN	Read	Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 *	0.1582	0.06	10.18	37.92	48.16	65.56	-17.40 QP
2	0.1582	0.06	10.18	23.74	33.98	55.56	-21.58 Average
3	0.3502	0.08	9.76	26.97	36.81	58.96	-22.15 QP
4	0.3502	0.08	9.76	10.66	20.50	48.96	-28.46 Average
5	1.4257	0.12	9.58	21.56	31.26	56.00	-24.74 QP
6	1.4257	0.12	9.58	13.03	22.73	46.00	-23.27 Average
7	2.0012	0.12	9.58	17.18	26.88	56.00	-29.12 QP
8	2.0012	0.12	9.58	-0.56	9.14	46.00	-36.86 Average
9	4.6964	0.14	9.66	27.01	36.81	56.00	-19.19 QP
10 *	4.6964	0.14	9.66	18.77	28.57	46.00	-17.43 Average
11	5.0848	0.14	9.66	25.82	35.62	60.00	-24.38 QP
12	5.0848	0.14	9.66	16.86	26.66	50.00	-23.34 Average



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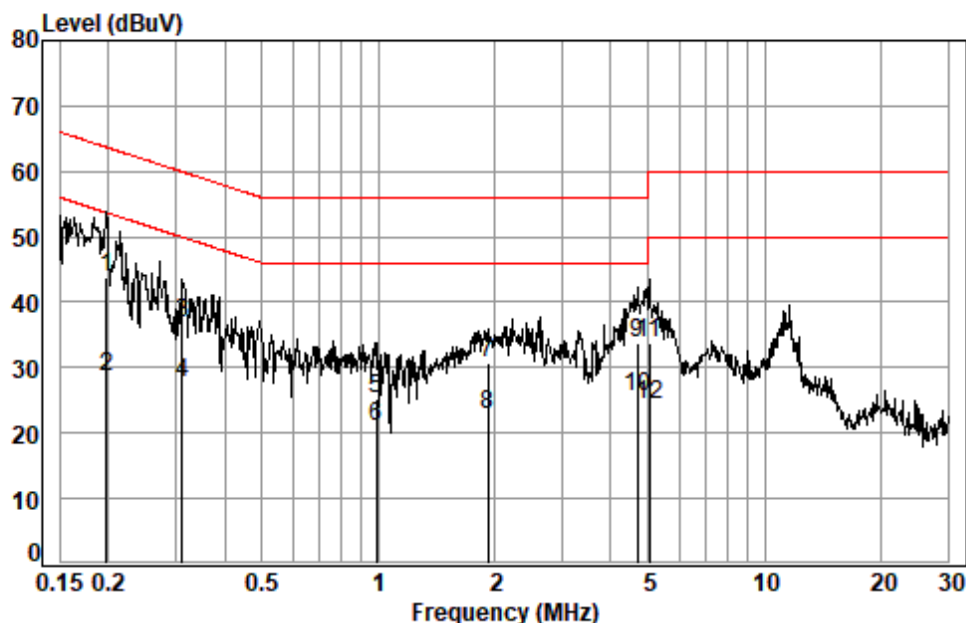
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Test Mode: 19; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 04144WM

Test mode: 19

		Cable	LISN	Read		Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1976	0.07	10.08	33.58	43.73	63.71	-19.98	QP
2	0.1976	0.07	10.08	18.57	28.72	53.71	-24.99	Average
3	0.3116	0.08	9.77	26.96	36.81	59.93	-23.12	QP
4	0.3116	0.08	9.77	17.91	27.76	49.93	-22.17	Average
5	0.9891	0.11	9.54	15.50	25.15	56.00	-30.85	QP
6	0.9891	0.11	9.54	11.43	21.08	46.00	-24.92	Average
7	1.9182	0.12	9.55	21.15	30.82	56.00	-25.18	QP
8	1.9182	0.12	9.55	13.08	22.75	46.00	-23.25	Average
9	4.6964	0.14	9.56	24.20	33.90	56.00	-22.10	QP
10 *	4.6964	0.14	9.56	15.85	25.55	46.00	-20.45	Average
11	5.0312	0.14	9.56	24.01	33.71	60.00	-26.29	QP
12	5.0312	0.14	9.56	14.56	24.26	50.00	-25.74	Average



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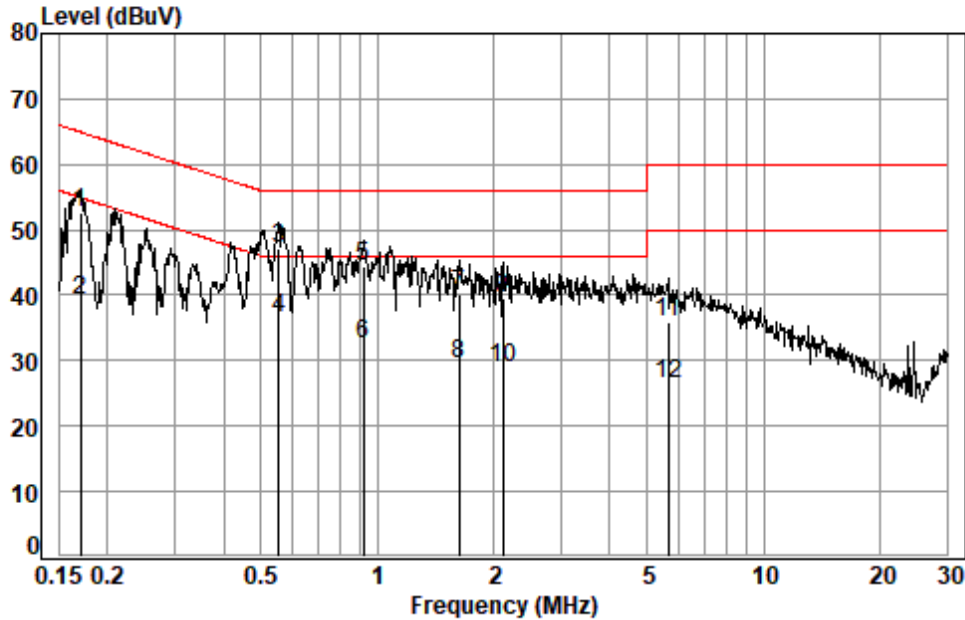
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Test Mode: 20; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 04144WM
Test mode: 20

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1703	0.06	10.16	42.48	52.70	64.94	-12.24	QP
2	0.1703	0.06	10.16	29.15	39.37	54.94	-15.57	Average
3 *	0.5552	0.09	9.57	37.39	47.05	56.00	-8.95	QP
4 *	0.5552	0.09	9.57	26.74	36.40	46.00	-9.60	Average
5	0.9233	0.11	9.60	34.79	44.50	56.00	-11.50	QP
6	0.9233	0.11	9.60	22.90	32.61	46.00	-13.39	Average
7	1.6276	0.12	9.58	30.47	40.17	56.00	-15.83	QP
8	1.6276	0.12	9.58	19.71	29.41	46.00	-16.59	Average
9	2.1101	0.12	9.59	29.70	39.41	56.00	-16.59	QP
10	2.1101	0.12	9.59	19.08	28.79	46.00	-17.21	Average
11	5.6532	0.14	9.67	26.05	35.86	60.00	-24.14	QP
12	5.6532	0.14	9.67	16.65	26.46	50.00	-23.54	Average



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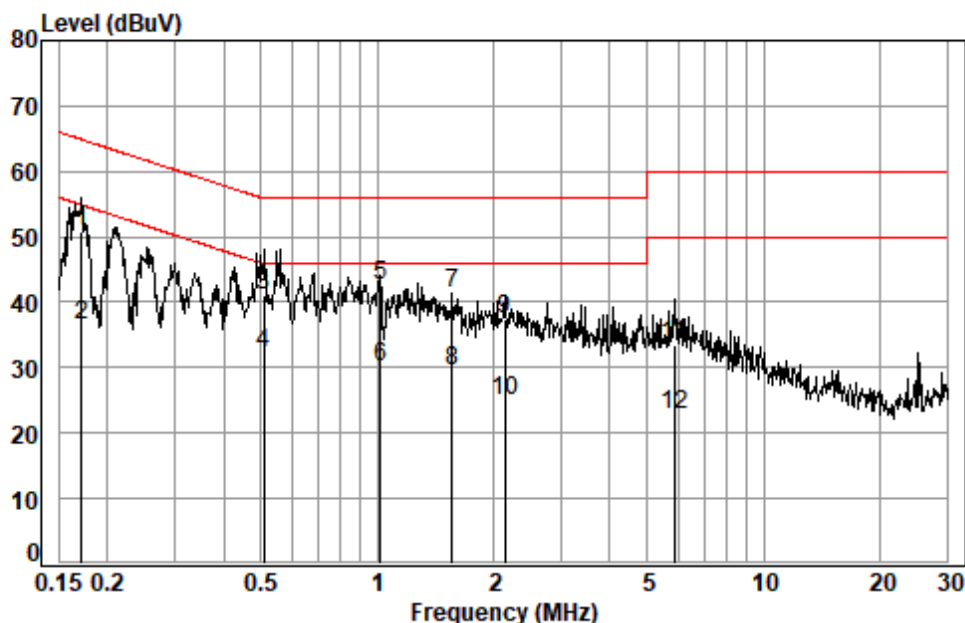
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Test Mode: 20; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 04144WM
Test mode: 20

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1712	0.06	10.12	40.56	50.74	64.90	-14.16	QP
2	0.1712	0.06	10.12	26.46	36.64	54.90	-18.26	Average
3	0.5101	0.09	9.71	31.30	41.10	56.00	-14.90	QP
4 *	0.5101	0.09	9.71	22.30	32.10	46.00	-13.90	Average
5 *	1.0211	0.11	9.54	33.08	42.73	56.00	-13.27	QP
6	1.0211	0.11	9.54	20.40	30.05	46.00	-15.95	Average
7	1.5601	0.12	9.55	31.74	41.41	56.00	-14.59	QP
8	1.5601	0.12	9.55	19.84	29.51	46.00	-16.49	Average
9	2.1439	0.12	9.55	27.66	37.33	56.00	-18.67	QP
10	2.1439	0.12	9.55	15.20	24.87	46.00	-21.13	Average
11	5.8668	0.14	9.60	23.59	33.33	60.00	-26.67	QP
12	5.8668	0.14	9.60	13.14	22.88	50.00	-27.12	Average



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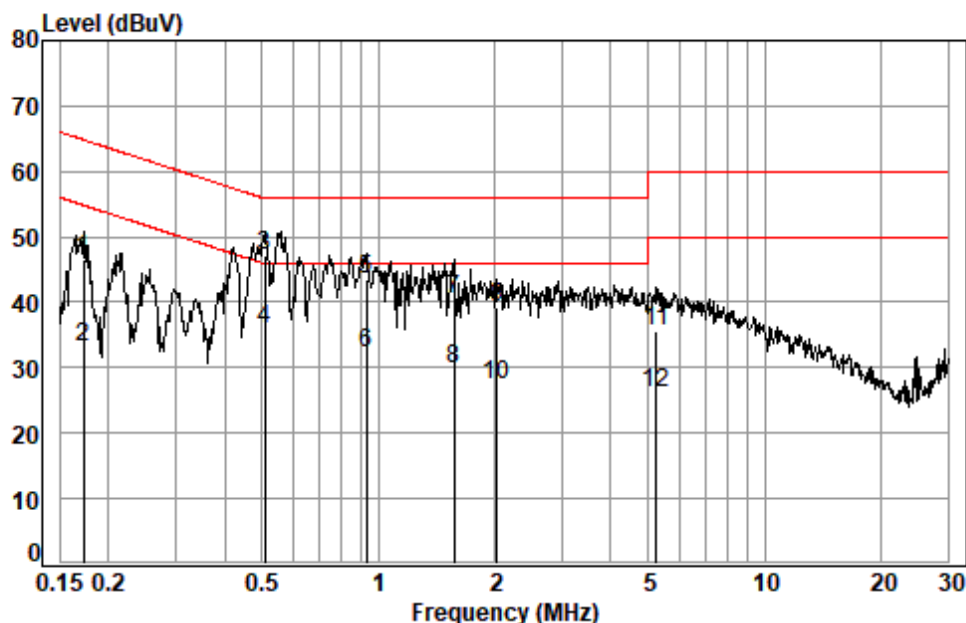
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Test Mode: 21; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 04144WM

Test mode: 21

Base charging

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1722	0.06	10.16	36.32	46.54	64.86	-18.32	QP
2	0.1722	0.06	10.16	23.07	33.29	54.86	-21.57	Average
3 *	0.5074	0.09	9.54	37.49	47.12	56.00	-8.88	QP
4 *	0.5074	0.09	9.54	26.31	35.94	46.00	-10.06	Average
5	0.9331	0.11	9.59	33.94	43.64	56.00	-12.36	QP
6	0.9331	0.11	9.59	22.41	32.11	46.00	-13.89	Average
7	1.5684	0.12	9.58	30.71	40.41	56.00	-15.59	QP
8	1.5684	0.12	9.58	20.13	29.83	46.00	-16.17	Average
9	2.0333	0.12	9.58	29.48	39.18	56.00	-16.82	QP
10	2.0333	0.12	9.58	17.70	27.40	46.00	-18.60	Average
11	5.2491	0.14	9.66	25.68	35.48	60.00	-24.52	QP
12	5.2491	0.14	9.66	16.39	26.19	50.00	-23.81	Average



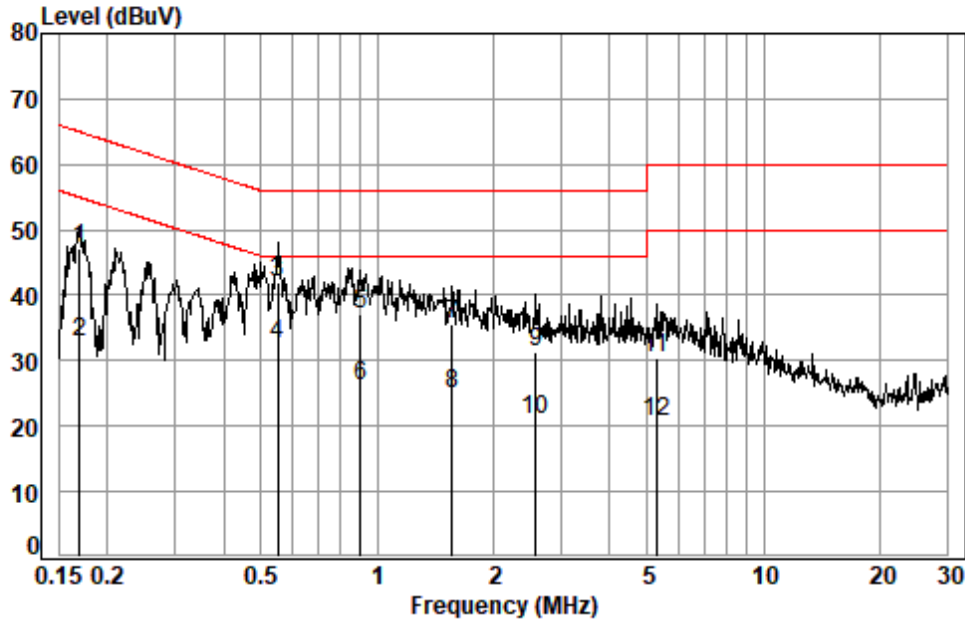
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Test Mode: 21; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 04144WM

Test mode: 21

Base charging

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1694	0.06	10.12	37.08	47.26	64.99	-17.73	QP
2	0.1694	0.06	10.12	22.77	32.95	54.99	-22.04	Average
3 *	0.5523	0.09	9.69	32.10	41.88	56.00	-14.12	QP
4 *	0.5523	0.09	9.69	22.89	32.67	46.00	-13.33	Average
5	0.9039	0.11	9.57	27.52	37.20	56.00	-18.80	QP
6	0.9039	0.11	9.57	16.43	26.11	46.00	-19.89	Average
7	1.5601	0.12	9.55	25.96	35.63	56.00	-20.37	QP
8	1.5601	0.12	9.55	15.16	24.83	46.00	-21.17	Average
9	2.5671	0.13	9.54	21.72	31.39	56.00	-24.61	QP
10	2.5671	0.13	9.54	11.31	20.98	46.00	-25.02	Average
11	5.2770	0.14	9.57	20.68	30.39	60.00	-29.61	QP
12	5.2770	0.14	9.57	11.08	20.79	50.00	-29.21	Average



6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4-2014

Measurement Distance: 3m

Limit:

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

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C

Humidity: 47.3 % RH

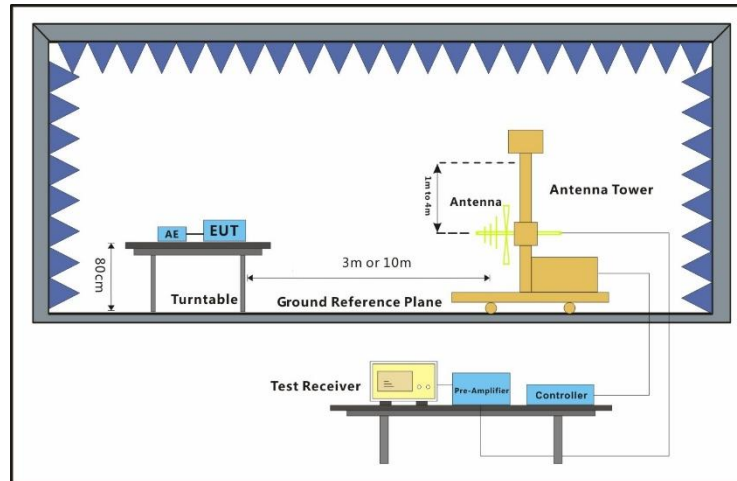
Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	Transfer data between the EUT1 and the PC+USB cable
Final test	19	Transfer data between the EUT2 and the PC+USB cable
Final test	20	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ GSM 850(RX)+Earphone
Final test	21	EUT(Worst)+adapter+Docking Station+USB Cable
Pre-scan	22	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ LTE B5(RX)+Earphone
Pre-scan	23	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ LTE B12(RX)+Earphone
Pre-scan	24	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ LTE B13(RX)+Earphone
Pre-scan	25	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ NR B5(RX)+Earphone



6.2.3 Test Setup Diagram



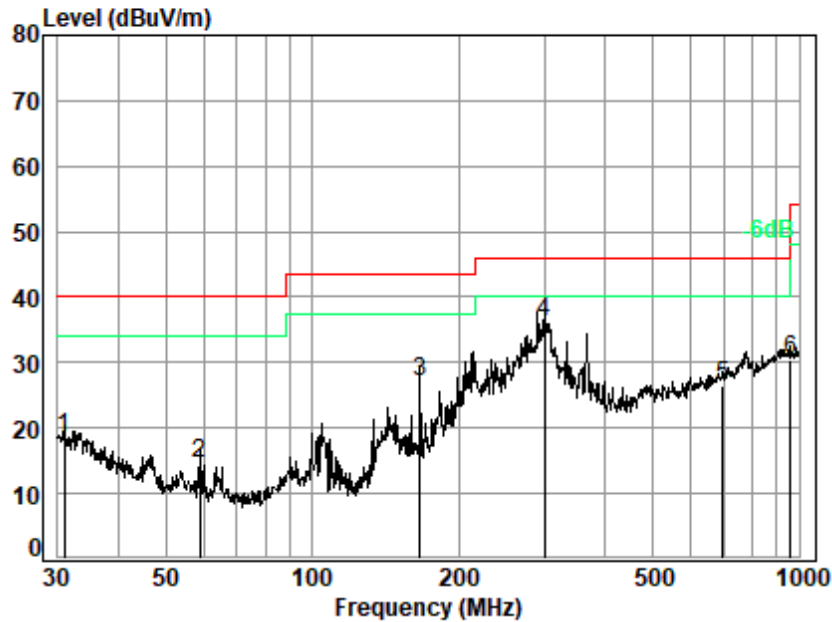
6.2.4 Measurement Procedure and Data

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

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



Test Mode: 18; Polarity: Horizontal

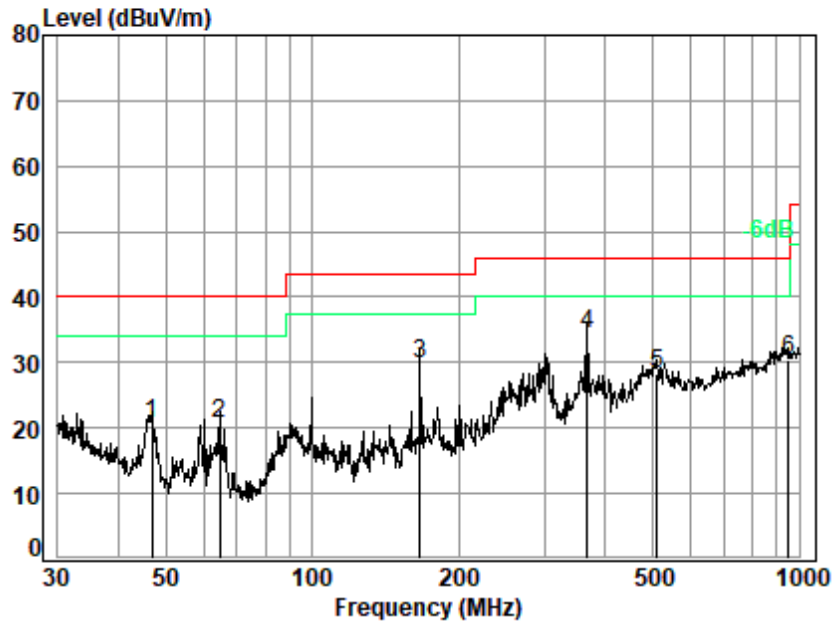


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04144WM
Test Mode: 18
: NO Earphone

	Ant Freq	Cable Factor	Preamp Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.962	20.76	0.75	27.65	24.62	18.48	40.00	-21.52	QP
2	58.819	11.61	0.92	27.62	29.73	14.64	40.00	-25.36	QP
3	166.651	13.15	1.57	27.75	40.18	27.15	43.50	-16.35	QP
4 q	300.367	18.05	2.11	27.50	43.54	36.20	46.00	-9.80	QP
5	696.857	25.88	3.40	27.84	25.01	26.45	46.00	-19.55	QP
6	958.794	28.10	4.09	26.63	24.89	30.45	46.00	-15.55	QP



Test Mode: 18; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04144WM
Test Mode: 18
: NO Earphone

	Ant Freq	Cable Factor	Preamp Loss	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	46.830	13.69	0.88	27.63	33.71	20.65	40.00	-19.35	QP
2	64.433	11.08	0.95	27.62	36.23	20.64	40.00	-19.36	QP
3	166.651	13.15	1.57	27.75	42.93	29.90	43.50	-13.60	QP
4 q	366.823	20.35	2.38	27.67	39.21	34.27	46.00	-11.73	QP
5	510.044	23.17	2.84	27.96	30.27	28.32	46.00	-17.68	QP
6	952.094	28.17	4.08	26.66	24.79	30.38	46.00	-15.62	QP



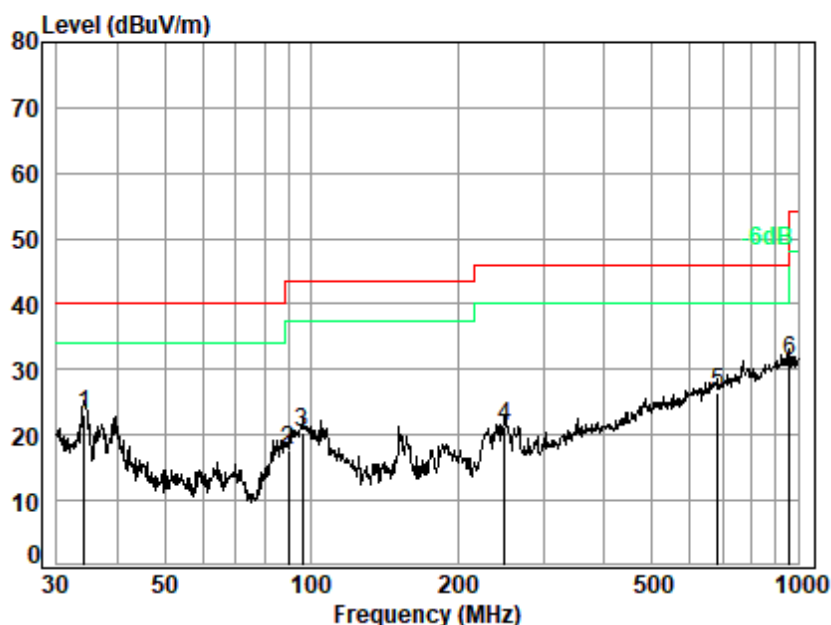
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Test Mode: 20; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 04144WM

Test Mode: 20

: Earphone

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	34.156	19.34	0.78	27.65	30.68	23.15	40.00	-16.85 QP
2	89.905	11.72	1.18	27.60	32.27	17.57	43.50	-25.93 QP
3	95.762	12.16	1.20	27.60	34.69	20.45	43.50	-23.05 QP
4	249.425	17.22	1.92	27.64	29.66	21.16	46.00	-24.84 QP
5	684.745	25.75	3.37	27.87	25.30	26.55	46.00	-19.45 QP
6 q	958.794	28.10	4.09	26.63	25.63	31.19	46.00	-14.81 QP



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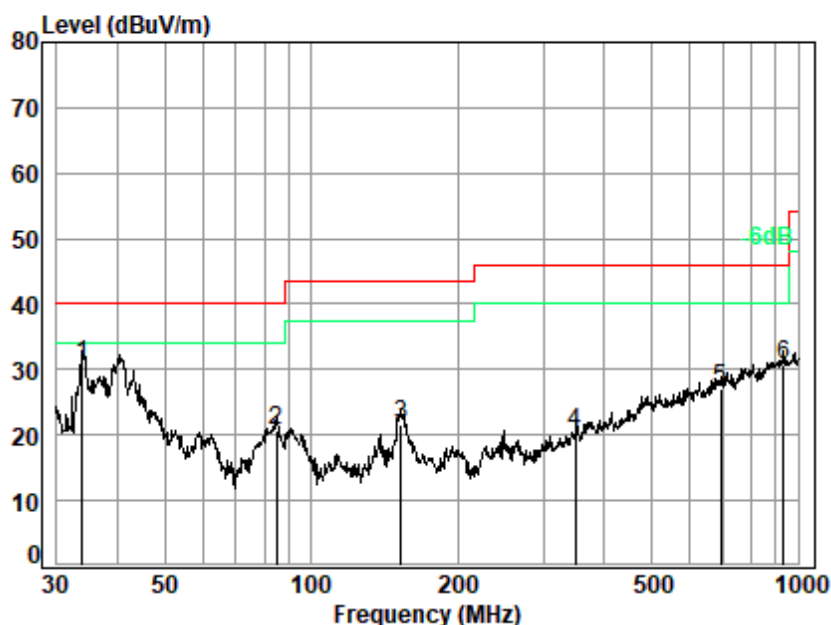
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Test Mode: 20; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04144WM
Test Mode: 20
: Earphone

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	33.917	19.47	0.77	27.65	38.13	30.72	40.00	-9.28 QP
2		84.702	10.98	1.14	27.61	36.17	20.68	40.00	-19.32 QP
3		152.664	13.34	1.51	27.72	34.47	21.60	43.50	-21.90 QP
4		349.250	19.86	2.31	27.63	25.94	20.48	46.00	-25.52 QP
5		694.417	25.82	3.39	27.85	25.61	26.97	46.00	-19.03 QP
6		932.272	28.16	4.04	26.78	25.39	30.81	46.00	-15.19 QP



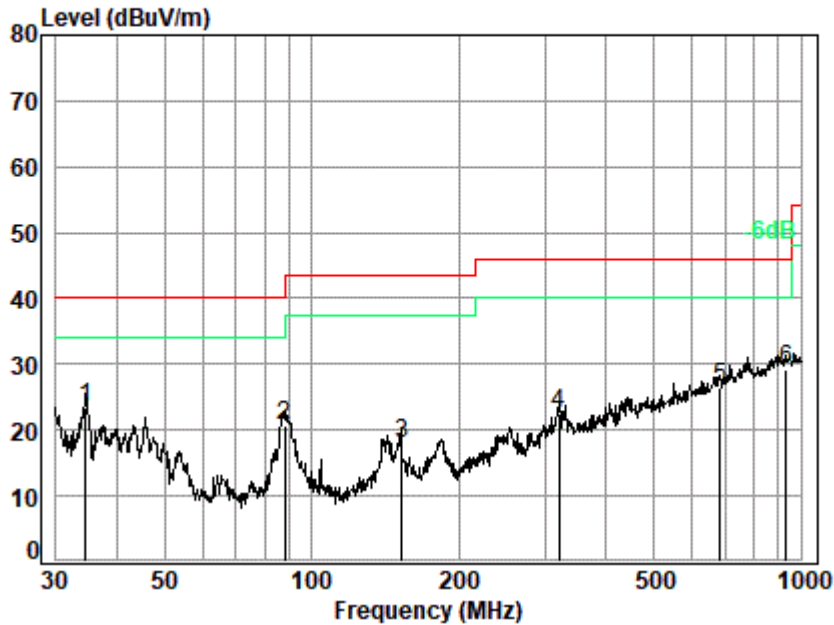
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Test Mode: 21; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04144WM
Test Mode: 21
:

	Ant	Cable	Preamp		Read	Over	Limit	
Freq	Factor	Loss	Factor	Level	Level	Limit	Line	Remark
MHz	dB/m	dB	dB	dBuV/m	dBuV	dB	dBuV/m	
1 q	34.517	19.14	0.78	27.65	23.43	31.16	-16.57	40.00 QP
2	88.033	11.47	1.16	27.61	20.76	35.74	-22.74	43.50 QP
3	152.664	13.34	1.51	27.72	17.95	30.82	-25.55	43.50 QP
4	319.937	18.51	2.19	27.56	22.48	29.34	-23.52	46.00 QP
5	684.745	25.75	3.37	27.87	26.43	25.18	-19.57	46.00 QP
6	932.272	28.16	4.04	26.78	29.35	23.93	-16.65	46.00 QP



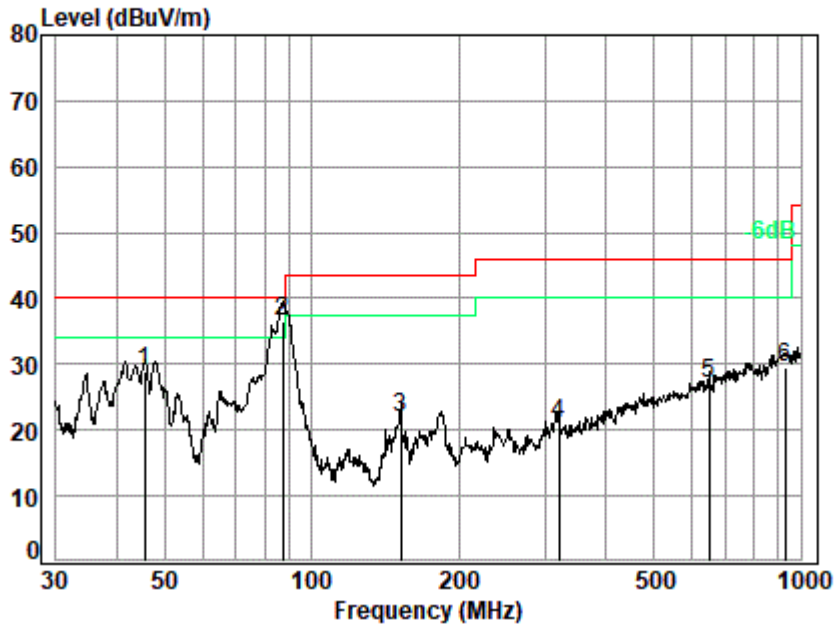
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Test Mode: 21; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04144WM
Test Mode: 21
:

	Ant Freq	Cable Factor	Preamp Loss	Factor	Level	Read Level	Over Limit	Limit Line	Remark
	MHz	dB/m	dB	dB	dBuV/m	dBuV	dB	dBuV/m	
1	45.535	14.07	0.87	27.63	28.76	41.45	-11.24	40.00	QP
2 q	87.112	11.33	1.16	27.61	36.41	51.53	-3.59	40.00	QP
3	152.130	13.28	1.51	27.72	21.94	34.87	-21.56	43.50	QP
4	321.061	18.53	2.20	27.56	20.90	27.73	-25.10	46.00	QP
5	649.660	24.76	3.26	27.96	26.94	26.88	-19.06	46.00	QP
6	929.008	28.16	4.04	26.80	29.52	24.12	-16.48	46.00	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

Measurement Distance: 3m

Limit:

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

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

6.3.1 E.U.T. Operation

Operating Environment:

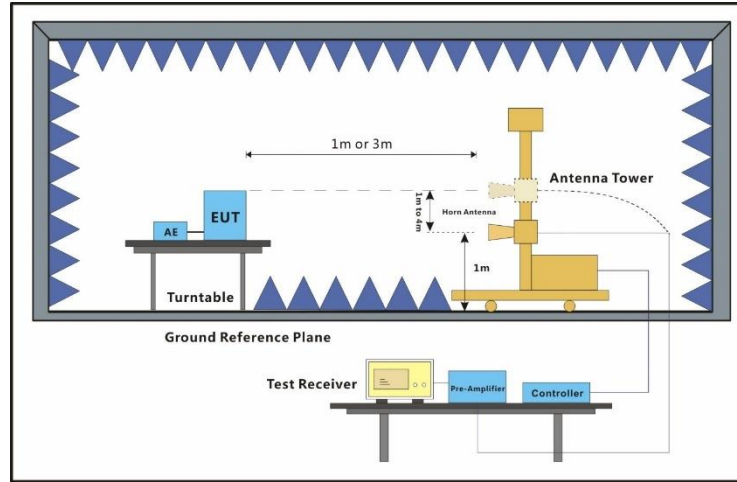
Temperature: 21.2 °C Humidity: 50.6 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	18	Transfer data between the EUT1 and the PC+USB cable
Final test	19	Transfer data between the EUT2 and the PC+USB cable
Final test	20	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ GSM 850(RX)+Earphone
Final test	21	EUT(Worst)+adapter+Docking Station+USB Cable
Pre-scan	22	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ LTE B5(RX)+Earphone
Pre-scan	23	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ LTE B12(RX)+Earphone
Pre-scan	24	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ LTE B13(RX)+Earphone
Pre-scan	25	EUT(Worst)+adapter+USB Cable+BT(Idle)+WIFI(Idle) +GNSS+Camera+ NR B5(RX)+Earphone



6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

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

The red line show in graphic is the limit in standard used in this section.

Remark: 1.Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2.The disturbance above 6GHz was very low and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

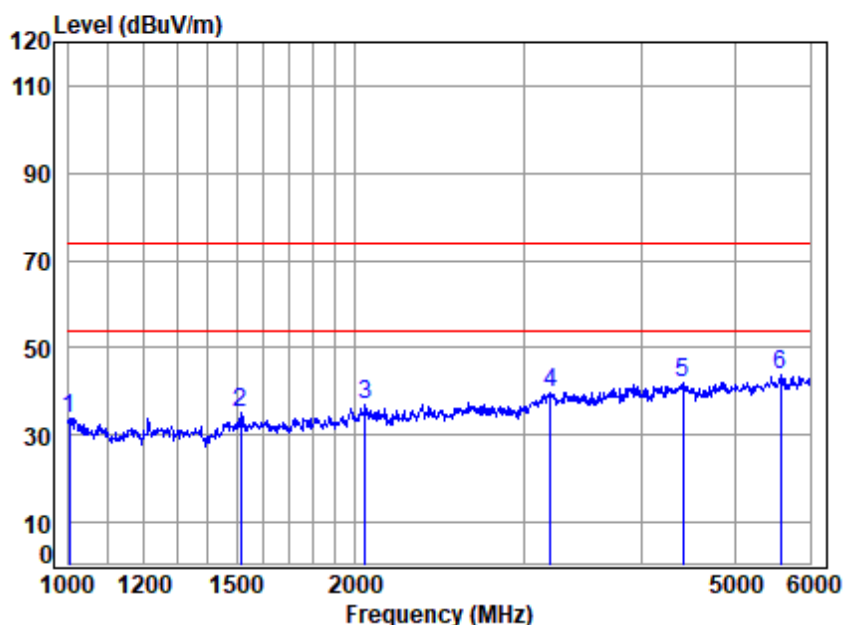
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Test Mode: 18; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04144WM
Mode : 18

	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	1001.793	5.95	26.24	54.60	56.08	33.67	74.00	-40.33	peak
2	1515.413	4.90	26.86	54.78	57.93	34.91	74.00	-39.09	peak
3	2047.672	5.10	28.99	54.91	57.57	36.75	74.00	-37.25	peak
4	3204.781	6.09	32.82	54.84	55.67	39.74	74.00	-34.26	peak
5	4416.593	7.08	34.60	54.26	54.75	42.17	74.00	-31.83	peak
6 p	5585.026	8.38	34.70	53.53	54.48	44.03	74.00	-29.97	peak



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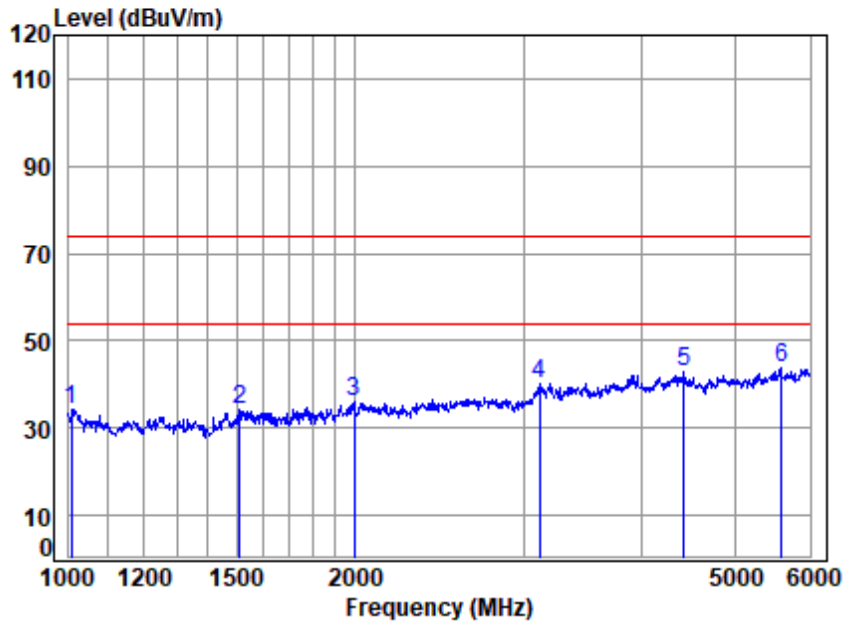
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Test Mode: 18; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 04144WM
Mode : 18

	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	1007.193	5.93	26.07	54.60	56.90	34.30	74.00	-39.70	peak
2	1512.700	4.89	26.85	54.78	57.45	34.41	74.00	-39.59	peak
3	1993.371	5.06	28.68	54.90	57.09	35.93	74.00	-38.07	peak
4	3119.795	6.03	31.96	54.90	57.04	40.13	74.00	-33.87	peak
5	4424.514	7.09	34.51	54.25	55.32	42.67	74.00	-31.33	peak
6 p	5595.042	8.39	34.70	53.52	54.05	43.62	74.00	-30.38	peak



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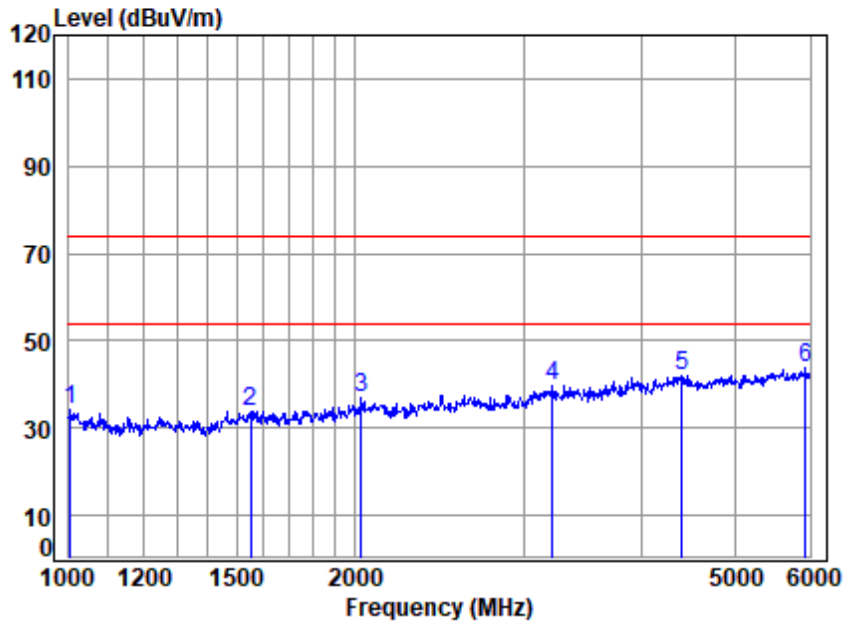
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Test Mode: 19; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04144WM
Mode : 19

	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	1003.590	5.94	26.19	54.60	56.67	34.20	74.00	-39.80	peak
2	1551.126	4.91	27.00	54.79	56.73	33.85	74.00	-40.15	peak
3	2029.410	5.09	28.92	54.90	57.63	36.74	74.00	-37.26	peak
4	3222.054	6.10	32.55	54.83	55.83	39.65	74.00	-34.35	peak
5	4400.794	7.07	34.79	54.26	54.52	42.12	74.00	-31.88	peak
6 p	5935.842	8.71	34.67	53.16	53.53	43.75	74.00	-30.25	peak



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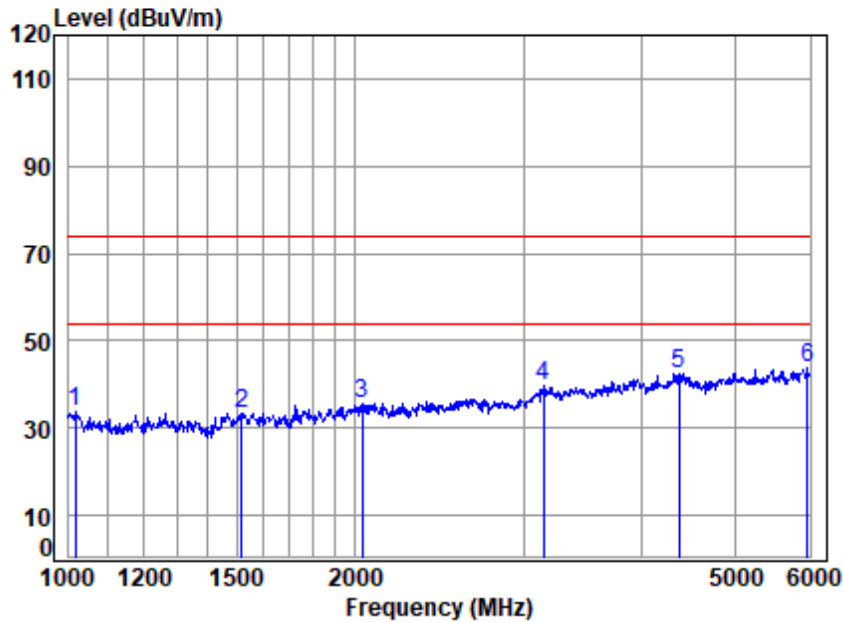
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Test Mode: 19; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 04144WM
Mode : 19

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1016.257	5.91	25.78	54.61	56.54	33.62	74.00	-40.38	peak
2	1518.131	4.90	26.87	54.78	56.38	33.37	74.00	-40.63	peak
3	2033.049	5.09	28.93	54.90	56.37	35.49	74.00	-38.51	peak
4	3147.870	6.05	32.46	54.88	56.02	39.65	74.00	-34.35	peak
5	4369.367	7.05	34.55	54.26	54.97	42.31	74.00	-31.69	peak
6 p	5957.151	8.73	34.73	53.14	53.37	43.69	74.00	-30.31	peak



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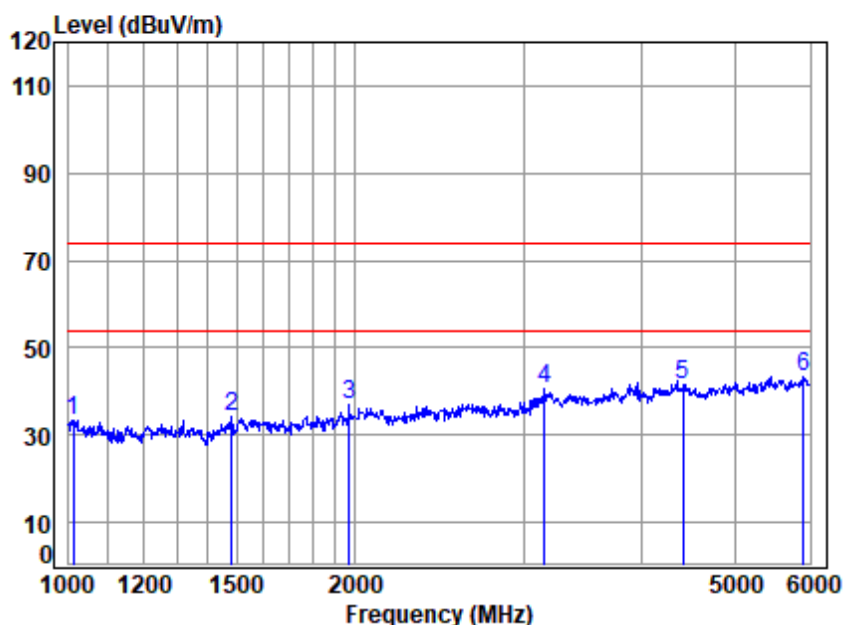
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Test Mode: 20; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 04144WM
Mode : 20

	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	1010.809	5.92	25.95	54.60	56.21	33.48	74.00	-40.52	peak
2	1483.178	4.92	26.33	54.77	57.94	34.42	74.00	-39.58	peak
3	1968.526	5.05	28.23	54.89	58.47	36.86	74.00	-37.14	peak
4	3159.171	6.06	32.57	54.87	56.84	40.60	74.00	-33.40	peak
5	4416.593	7.08	34.60	54.26	54.16	41.58	74.00	-32.42	peak
6 p	5904.021	8.68	34.61	53.20	53.11	43.20	74.00	-30.80	peak



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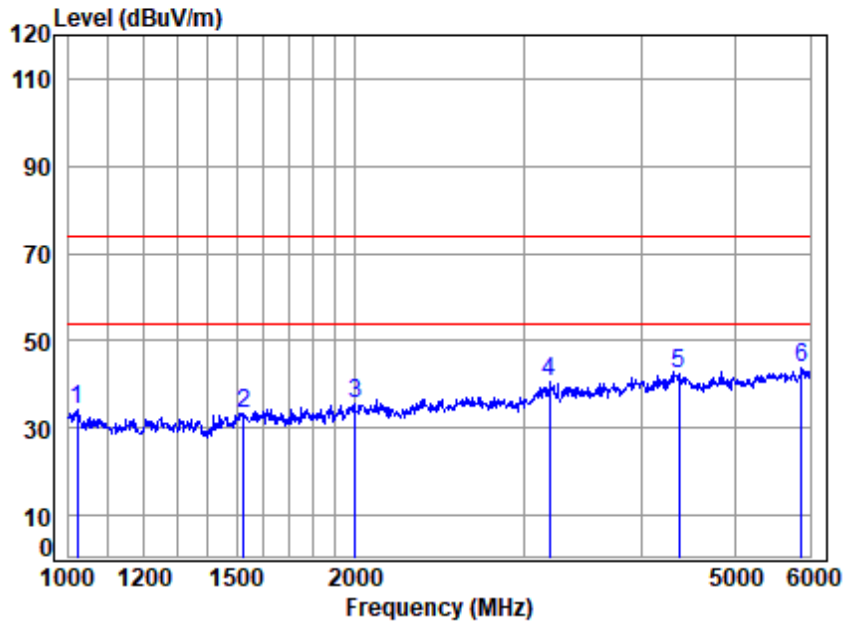
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Test Mode: 20; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 04144WM
Mode : 20

	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	1019.905	5.90	25.66	54.61	57.24	34.19	74.00	-39.81	peak
2	1526.313	4.90	26.91	54.78	56.42	33.45	74.00	-40.55	peak
3	1996.946	5.06	28.75	54.90	56.74	35.65	74.00	-38.35	peak
4	3193.317	6.08	32.85	54.85	56.51	40.59	74.00	-33.41	peak
5	4369.367	7.05	34.55	54.26	54.88	42.22	74.00	-31.78	peak
6 p	5882.902	8.66	34.53	53.22	53.84	43.81	74.00	-30.19	peak



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7 Test Setup Photo

Please refer to SZCR2509004144WM Appendix_Setup Photo-Part15B

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2509004144WM.

- End of the Report -

