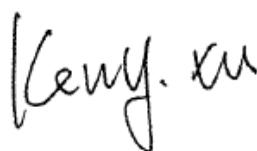


**TEST REPORT**

**Application No.:** SZCR2403000767WM  
**Applicant:** Sonim Technologies, Inc.  
**Address of Applicant:** 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA  
**Manufacturer:** Sonim Technologies, Inc.  
**Address of Manufacturer:** 4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA  
**Equipment Under Test (EUT):**  
**EUT Name:** smartphone  
**Model No.:** X800  
**Type No.:** S6002  
**Trade Mark:** Sonim  
**FCC ID:** WYPS6002  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2024-03-07  
**Date of Test:** 2024-07-03 to 2024-07-17  
**Date of Issue:** 2024-08-09

<b>Test Result:</b>	Pass*
---------------------	-------

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



Keny Xu

EMC Laboratory Manager

SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing & EEC Laboratory.

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240300076705

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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2024-08-09		Original

<b>Authorized for issue by:</b>			
		Calvin Weng	
		Calvin Weng/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	

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## 2 Test Summary

<b>Emission Part</b>				
<b>Item</b>	<b>Standard</b>	<b>Method</b>	<b>Requirement</b>	<b>Result</b>
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

<b>Internal Source</b>	<b>Upper Frequency</b>
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:	DC3.87V by Li-ion battery(5000mAh) Recharged by AC/DC power adapter Adapter M/N:1-CHUSQ302-097 Adapter Manufacturer: HUIZHOU PUAN ELEOTRONICS CO.,LTD Adapter output: 5V/3A,9V/2A,12V/1.5A Battery M/N:BAT-05000-21S Battery Manufacturer: Shenzhen Aerospace Electronic Co.,Ltd.
Cable(s):	USB type C cable M/N: HX-YLMK-16 1.5m shielded cable without ferrite core USB type C cable manufacturer: HUIZHOU WASHIN ELECTRONICS CO.,LTD
Internal Source:	>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.

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	L480	REF. No.SEA18C01F
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A01
Router	NETGEAR	DGN2200	REF. No.SEA22A00
Wireless charge	XIAOMI	MDY-12-EN	REF. No.SEA05Q06F
XIAOMI MI 9	XIAOMI	M1902F1A	22006/K9SH01862
Type-C to C Cable	SGS	N/A	REF. No.SEA0705

### 4.3 Measurement Uncertainty

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

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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	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

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	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05



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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	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17

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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: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

#### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	26	Normal Operating: Charge+front camera on
Pre-scan	27	Normal Operating: Charge+rear camera on
Pre-scan	28	Normal Operating: Charge+play MP4+earphone
Pre-scan	29	Normal Operating: Charge+GSM850 Rx
Pre-scan	30	Normal Operating: Charge+WCDMA B5 Rx
Pre-scan	31	Normal Operating: Charge+LTE B5 Rx
Pre-scan	32	Normal Operating: Charge+NR n5 Rx
Final test	37	Normal Operating: WPC charge the EUT

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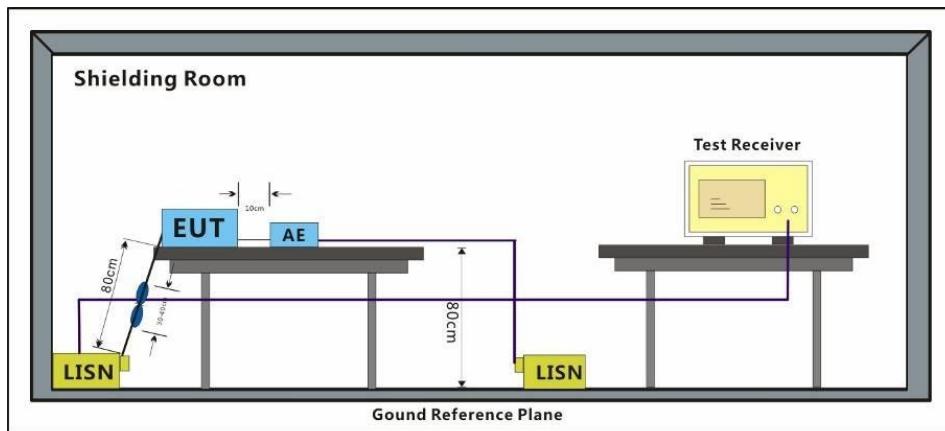
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### 6.1.3 Test Setup Diagram



### 6.1.4 Measurement Procedure and Data

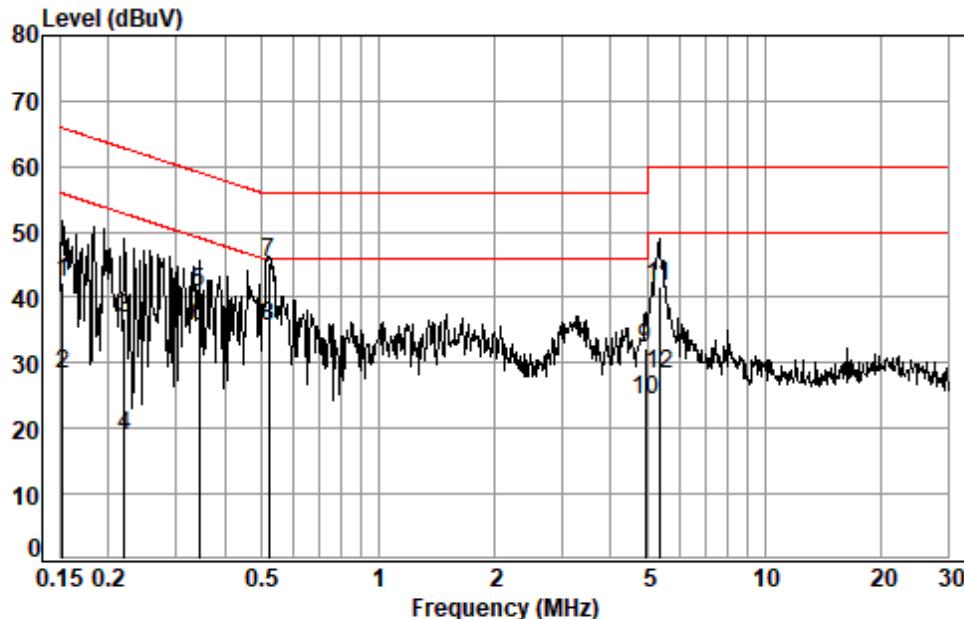
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

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

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Test Mode: 26; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00767WM

Test mode: 26

Freq	Cable	LISN	Read	Limit		Over	Remark
	Loss	Factor	Level	Level	Line	Limit	
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1524	0.02	9.88	32.46	42.36	65.87	-23.51 QP
2	0.1524	0.02	9.88	18.34	28.24	55.87	-27.63 Average
3	0.2208	0.03	9.95	26.79	36.77	62.79	-26.02 QP
4	0.2208	0.03	9.95	8.94	18.92	52.79	-33.87 Average
5	0.3446	0.03	10.03	30.76	40.82	59.09	-18.27 QP
6	0.3446	0.03	10.03	25.65	35.71	49.09	-13.38 Average
7 *	0.5210	0.04	9.99	35.26	45.29	56.00	-10.71 QP
8 *	0.5210	0.04	9.99	25.67	35.70	46.00	-10.30 Average
9	4.9257	0.09	10.04	22.25	32.38	56.00	-23.62 QP
10	4.9257	0.09	10.04	14.25	24.38	46.00	-21.62 Average
11	5.3332	0.10	10.05	31.44	41.59	60.00	-18.41 QP
12	5.3332	0.10	10.05	18.25	28.40	50.00	-21.60 Average

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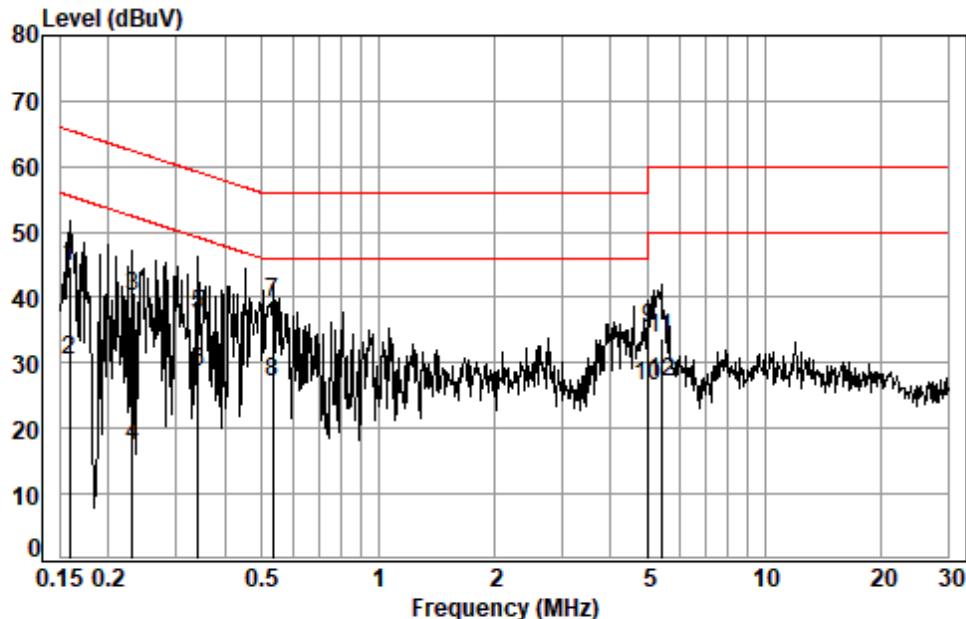
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Test Mode: 26; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00767WM

Test mode: 26

Freq	Cable	LISN	Read	Limit	Over	Remark	
	Freq	Loss	Factor				
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1590	0.02	9.89	34.70	44.61	65.52	-20.91 QP
2	0.1590	0.02	9.89	20.56	30.47	55.52	-25.05 Average
3	0.2304	0.03	9.91	30.20	40.14	62.44	-22.30 QP
4	0.2304	0.03	9.91	7.40	17.34	52.44	-35.10 Average
5	0.3410	0.03	9.92	27.50	37.45	59.18	-21.73 QP
6	0.3410	0.03	9.92	18.79	28.74	49.18	-20.44 Average
7 *	0.5350	0.04	9.94	29.23	39.21	56.00	-16.79 QP
8 *	0.5350	0.04	9.94	17.05	27.03	46.00	-18.97 Average
9	5.0046	0.09	10.01	25.06	35.16	60.00	-24.84 QP
10	5.0046	0.09	10.01	16.26	26.36	50.00	-23.64 Average
11	5.3900	0.10	10.03	23.53	33.66	60.00	-26.34 QP
12	5.3900	0.10	10.03	16.79	26.92	50.00	-23.08 Average

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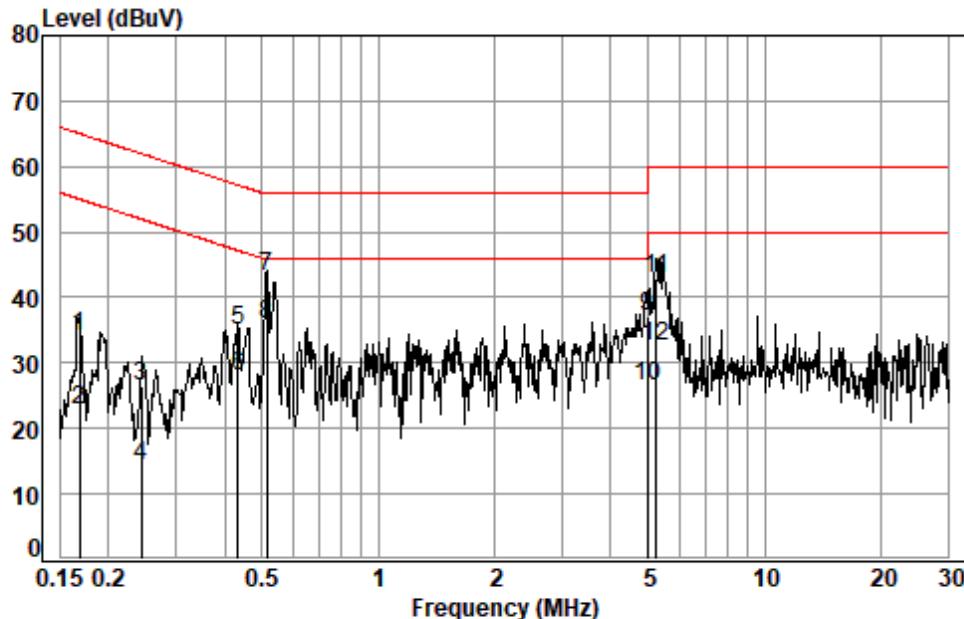
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Test Mode: 37; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00767WM

Test mode: 37

Freq	Cable	LISN	Read	Limit		Over	Remark
	Freq	Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1685	0.02	9.90	24.12	34.04	65.03	-30.99 QP
2	0.1685	0.02	9.90	12.94	22.86	55.03	-32.17 Average
3	0.2442	0.03	9.97	16.54	26.54	61.95	-35.41 QP
4	0.2442	0.03	9.97	4.17	14.17	51.95	-37.78 Average
5	0.4328	0.03	10.01	24.93	34.97	57.20	-22.23 QP
6	0.4328	0.03	10.01	17.98	28.02	47.20	-19.18 Average
7 *	0.5155	0.04	9.99	33.16	43.19	56.00	-12.81 QP
8 *	0.5155	0.04	9.99	25.90	35.93	46.00	-10.07 Average
9	4.9782	0.09	10.04	27.09	37.22	56.00	-18.78 QP
10	4.9782	0.09	10.04	16.39	26.52	46.00	-19.48 Average
11	5.2491	0.09	10.05	32.89	43.03	60.00	-16.97 QP
12	5.2491	0.09	10.05	22.40	32.54	50.00	-17.46 Average

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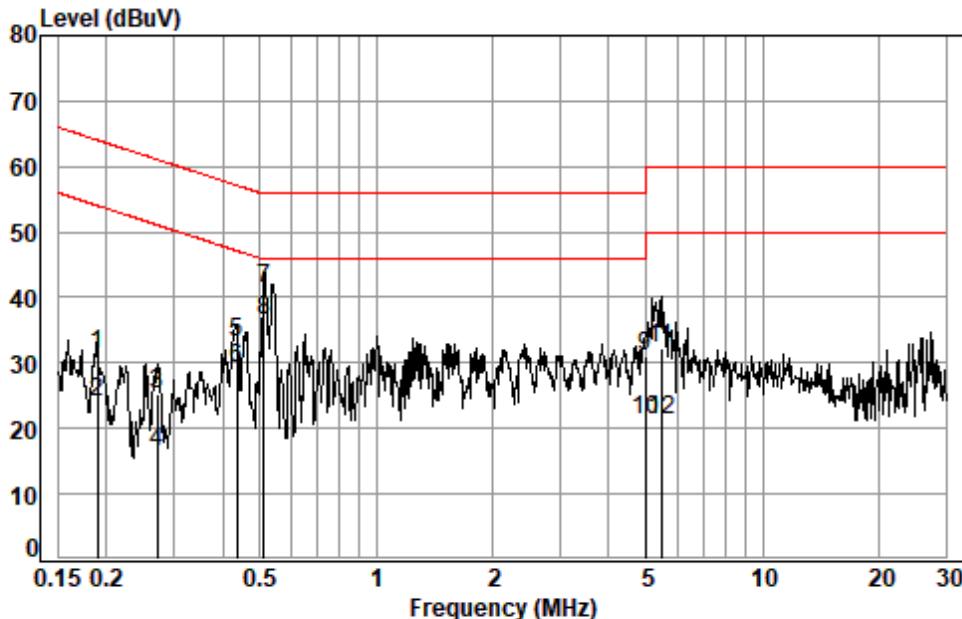
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Test Mode: 37; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00767WM

Test mode: 37

Freq	Cable	LISN	Read	Limit		Over	Remark
	Freq	Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.1904	0.02	9.91	21.43	31.36	64.02	-32.66 QP
2	0.1904	0.02	9.91	14.07	24.00	54.02	-30.02 Average
3	0.2715	0.03	9.91	15.18	25.12	61.07	-35.95 QP
4	0.2715	0.03	9.91	6.35	16.29	51.07	-34.78 Average
5	0.4351	0.03	9.92	23.33	33.28	57.15	-23.87 QP
6	0.4351	0.03	9.92	19.13	29.08	47.15	-18.07 Average
7 *	0.5128	0.04	9.93	31.44	41.41	56.00	-14.59 QP
8 *	0.5128	0.04	9.93	26.44	36.41	46.00	-9.59 Average
9	4.9782	0.09	10.01	20.99	31.09	56.00	-24.91 QP
10	4.9782	0.09	10.01	11.30	21.40	46.00	-24.60 Average
11	5.4763	0.10	10.03	22.06	32.19	60.00	-27.81 QP
12	5.4763	0.10	10.03	11.14	21.27	50.00	-28.73 Average

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## 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)	dB $\mu$ V/m (At 10m)	dB $\mu$ V/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: 20.2 °C

Humidity: 45.2 % RH

Atmospheric Pressure: 1020 mbar

### 6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	26	Normal Operating: Charge+front camera on
Final test	27	Normal Operating: Charge+rear camera on
Final test	28	Normal Operating: Charge+play MP4+earphone
Final test	29	Normal Operating: Charge+GSM850 Rx
Final test	30	Normal Operating: Charge+WCDMA B5 Rx
Final test	31	Normal Operating: Charge+LTE B5 Rx
Final test	32	Normal Operating: Charge+NR n5 Rx
Final test	37	Normal Operating: WPC charge the EUT
Final test	38	Normal Operating: Data exchange between PC and EUT
Final test	39	Normal Operating: EUT USB output

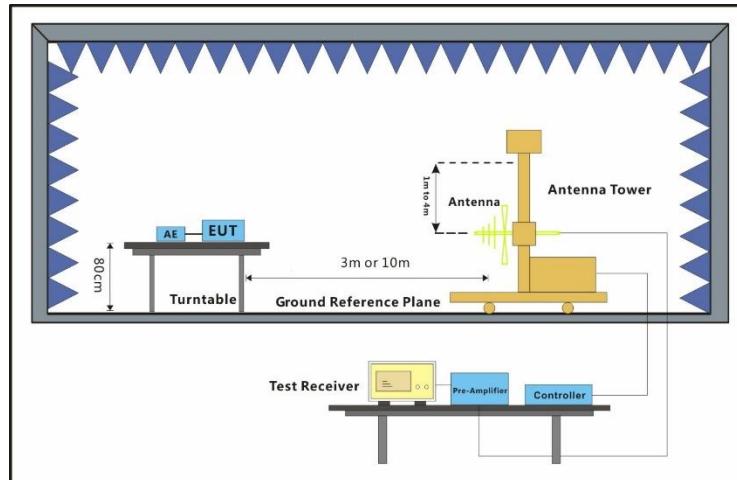
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### 6.2.3 Test Setup Diagram



### 6.2.4 Measurement Procedure and Data

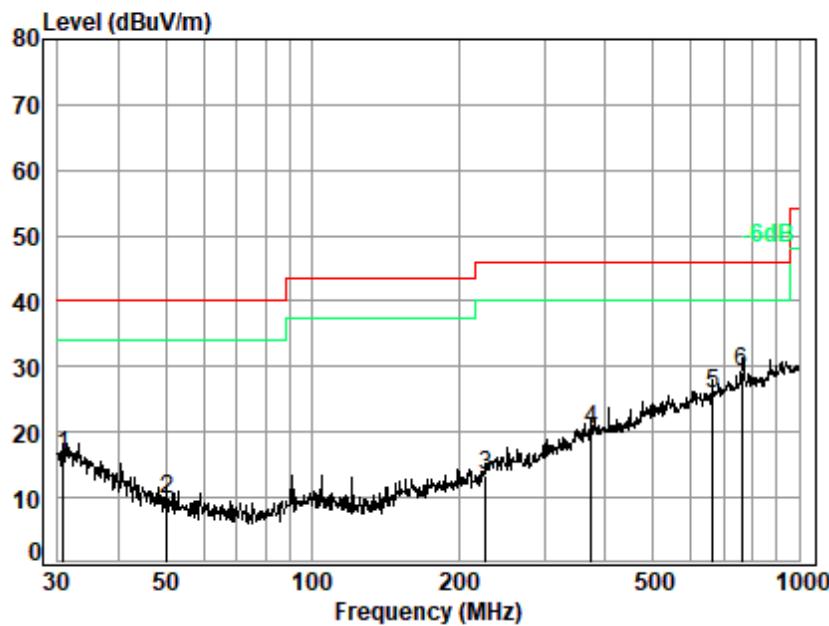
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

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

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Test Mode: 26; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 00767WM  
Test Mode: 26

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark		
					MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	30.85	20.81	0.65	27.79	22.73	16.40	40.00	40.00	-23.60	QP
2	50.23	12.72	0.83	27.73	23.81	9.63	40.00	40.00	-30.37	QP
3	226.89	16.00	1.85	27.06	22.48	13.27	46.00	46.00	-32.73	QP
4	374.62	20.68	2.45	27.05	24.20	20.28	46.00	46.00	-25.72	QP
5	663.47	25.32	3.40	27.81	24.96	25.87	46.00	46.00	-20.13	QP
6 q	763.38	26.52	3.71	27.57	26.60	29.26	46.00	46.00	-16.74	QP

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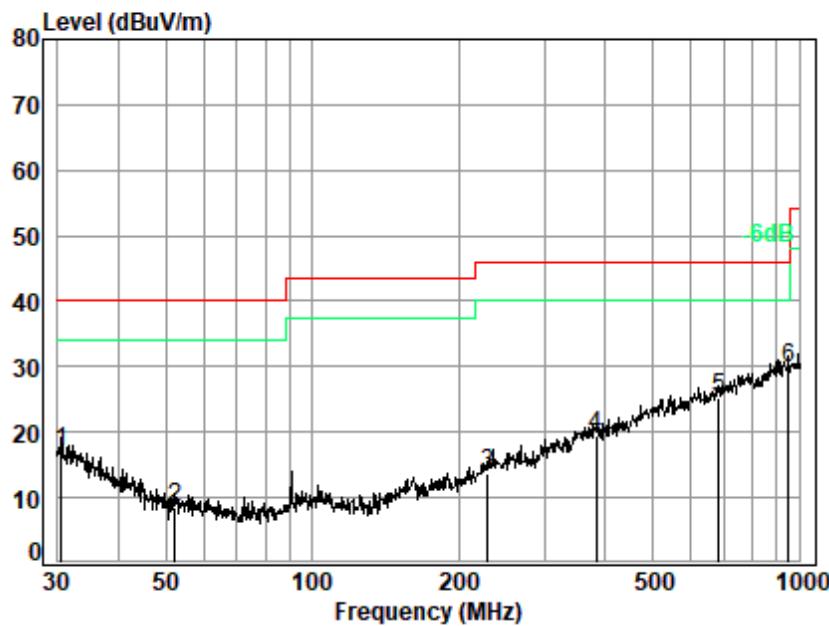
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Test Mode: 26; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 00767WM  
Test Mode: 26

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					dBuV	dBuV/m		
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	-
1	30.53	20.95	0.65	27.79	23.35	17.16	40.00	-22.84 QP
2	52.21	12.42	0.85	27.73	23.12	8.66	40.00	-31.34 QP
3	229.29	16.35	1.86	27.05	22.38	13.54	46.00	-32.46 QP
4	383.93	20.90	2.49	27.09	23.08	19.38	46.00	-26.62 QP
5	684.75	25.75	3.46	27.76	23.67	25.12	46.00	-20.88 QP
6 q	952.09	28.17	4.23	26.39	23.73	29.74	46.00	-16.26 QP

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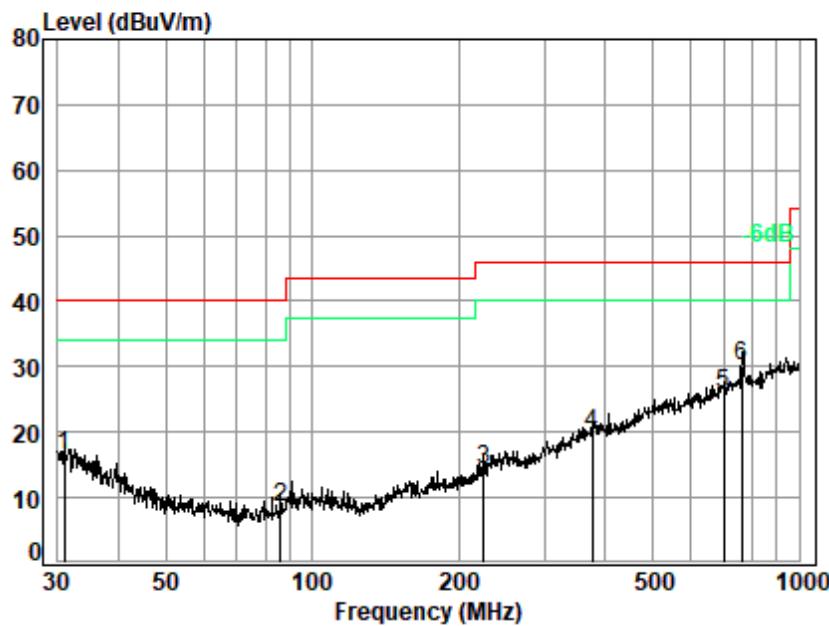
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Test Mode: 27; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 00767WM  
Test Mode: 27

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					dB/m	dBuV	dBuV/m	dBuV/m
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1	30.96	20.76	0.65	27.79	22.67	16.29	40.00	-23.71 QP
2	85.90	11.15	1.10	27.63	24.04	8.66	40.00	-31.34 QP
3	225.31	15.77	1.84	27.06	23.79	14.34	46.00	-31.66 QP
4	375.94	20.74	2.46	27.06	23.53	19.67	46.00	-26.33 QP
5	699.30	25.93	3.51	27.73	24.00	25.71	46.00	-20.29 QP
6 q	763.38	26.52	3.71	27.57	27.57	30.23	46.00	-15.77 QP

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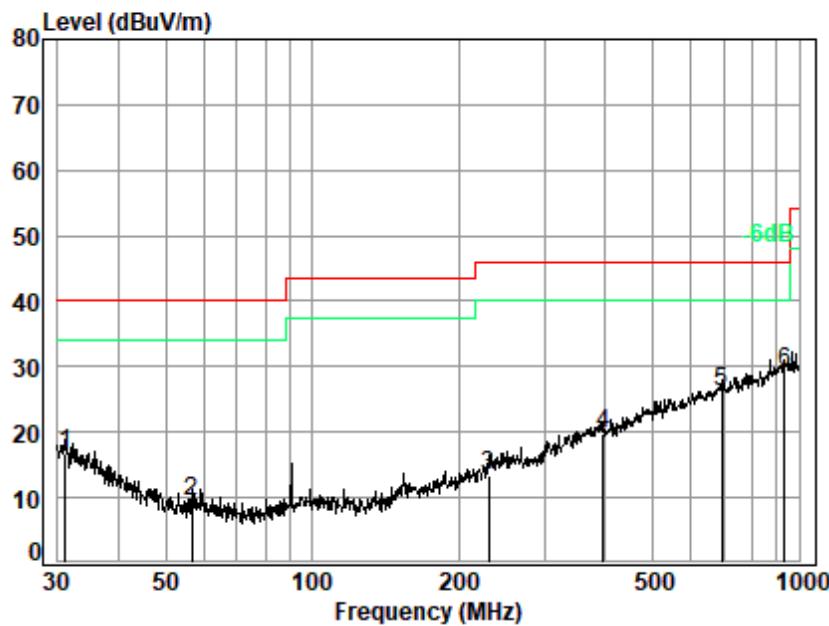
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Test Mode: 27; Polarity: Vertical



Site : chamber  
 Condition: 3m VERTICAL  
 Job No. : 00767WM  
 Test Mode: 27

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.07	20.71	0.65	27.79	23.23	16.80	40.00	-23.20 QP
2	56.59	11.79	0.89	27.72	24.32	9.28	40.00	-30.72 QP
3	230.10	16.46	1.86	27.04	22.24	13.52	46.00	-32.48 QP
4	396.24	20.68	2.54	27.14	23.57	19.65	46.00	-26.35 QP
5	694.42	25.82	3.49	27.74	24.57	26.14	46.00	-19.86 QP
6 q	932.27	28.16	4.17	26.53	23.29	29.09	46.00	-16.91 QP

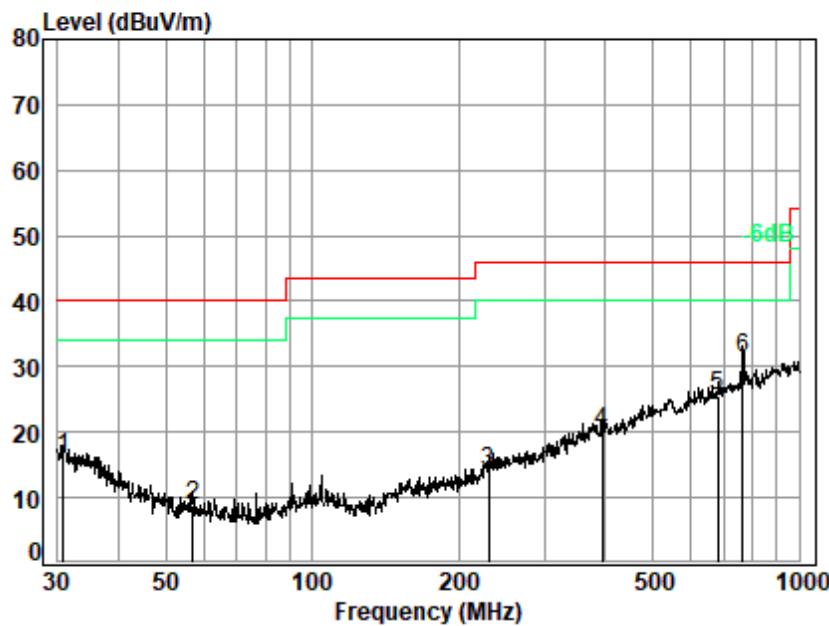
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Test Mode: 28; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 00767WM  
Test Mode: 28

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.85	20.81	0.65	27.79	22.31	15.98	40.00	-24.02 QP
2	56.79	11.77	0.89	27.71	23.95	8.90	40.00	-31.10 QP
3	230.10	16.46	1.86	27.04	22.73	14.01	46.00	-31.99 QP
4	393.47	20.72	2.53	27.13	23.89	20.01	46.00	-25.99 QP
5	682.35	25.80	3.46	27.77	24.19	25.68	46.00	-20.32 QP
6 q	766.06	26.59	3.72	27.56	28.51	31.26	46.00	-14.74 QP

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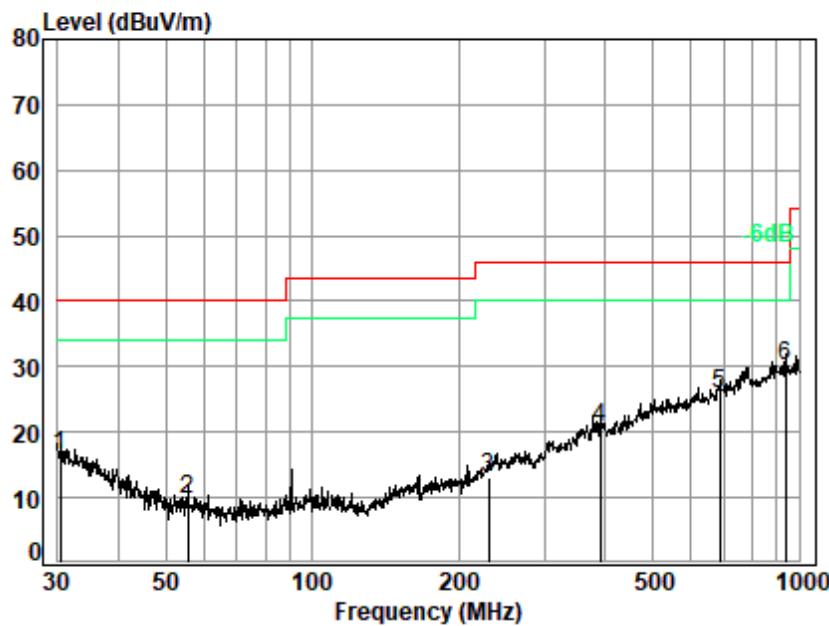
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Test Mode: 28; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 00767WM  
Test Mode: 28

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Line Limit	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.32	21.05	0.64	27.79	22.48	16.38	40.00	-23.62 QP
2	55.41	11.91	0.88	27.72	24.66	9.73	40.00	-30.27 QP
3	230.10	16.46	1.86	27.04	21.85	13.13	46.00	-32.87 QP
4	390.72	20.75	2.51	27.12	24.40	20.54	46.00	-25.46 QP
5	687.15	25.71	3.47	27.76	24.54	25.96	46.00	-20.04 QP
6 q	938.83	28.15	4.19	26.49	24.20	30.05	46.00	-15.95 QP

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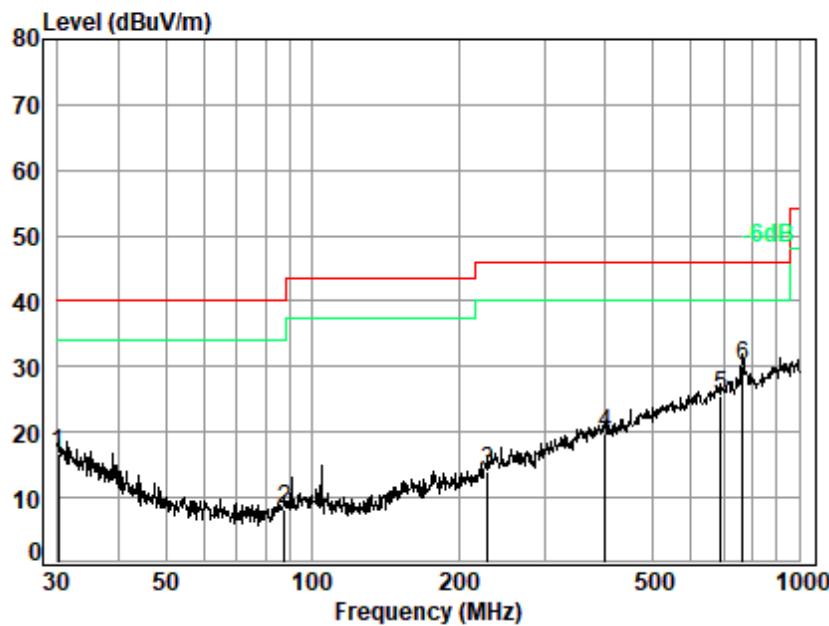
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Test Mode: 29; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 00767WM  
Test Mode: 29

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	21.15	0.64	27.79	22.74	16.74	40.00	-23.26 QP
2	87.72	11.43	1.11	27.63	23.22	8.13	40.00	-31.87 QP
3	229.29	16.35	1.86	27.05	22.93	14.09	46.00	-31.91 QP
4	400.43	20.60	2.55	27.16	23.67	19.66	46.00	-26.34 QP
5	689.56	25.69	3.48	27.75	24.00	25.42	46.00	-20.58 QP
6 q	766.06	26.59	3.72	27.56	27.24	29.99	46.00	-16.01 QP

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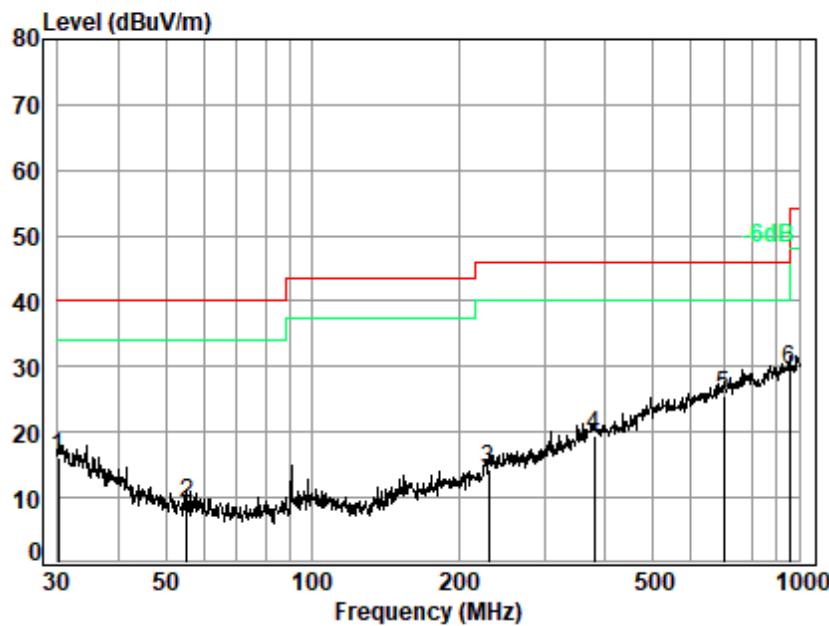
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Test Mode: 29; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 00767WM  
Test Mode: 29

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	21.15	0.64	27.79	22.23	16.23	40.00	-23.77 QP
2	55.22	11.94	0.88	27.72	23.98	9.08	40.00	-30.92 QP
3	230.10	16.46	1.86	27.04	23.03	14.31	46.00	-31.69 QP
4	379.91	20.91	2.47	27.07	23.06	19.37	46.00	-26.63 QP
5	699.30	25.93	3.51	27.73	23.93	25.64	46.00	-20.36 QP
6 q	955.44	28.10	4.23	26.37	23.67	29.63	46.00	-16.37 QP

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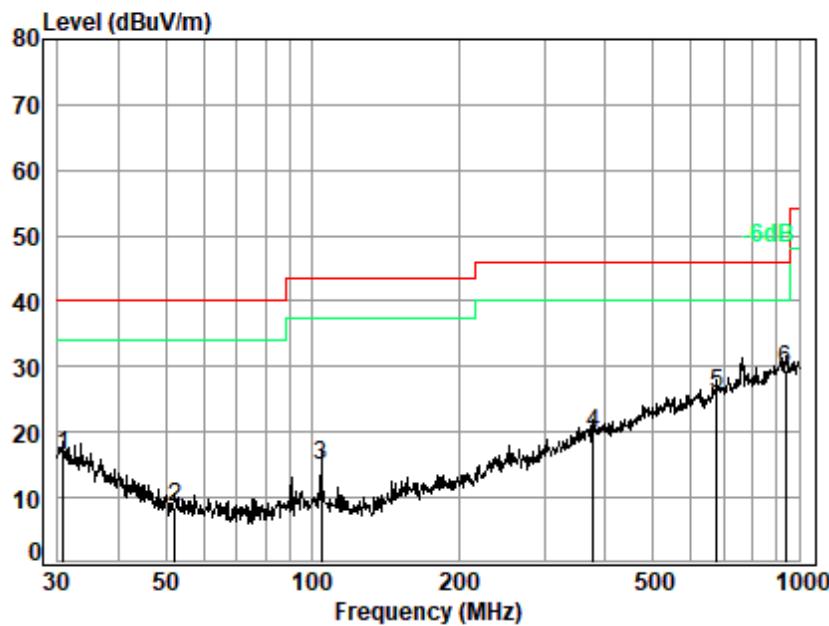
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Test Mode: 30; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 00767WM  
Test Mode: 30

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					dB	dBuV	dBuV/m	dBuV/m
MHz	dB/m	dB	dB	dB	dB	dB	dB	-
1	30.75	20.86	0.65	27.79	22.72	16.44	40.00	-23.56 QP
2	52.21	12.42	0.85	27.73	22.97	8.51	40.00	-31.49 QP
3	104.17	12.22	1.21	27.57	29.15	15.01	43.50	-28.49 QP
4	378.58	20.85	2.47	27.07	23.55	19.80	46.00	-26.20 QP
5	677.58	25.78	3.44	27.78	24.40	25.84	46.00	-20.16 QP
6 q	938.83	28.15	4.19	26.49	23.75	29.60	46.00	-16.40 QP

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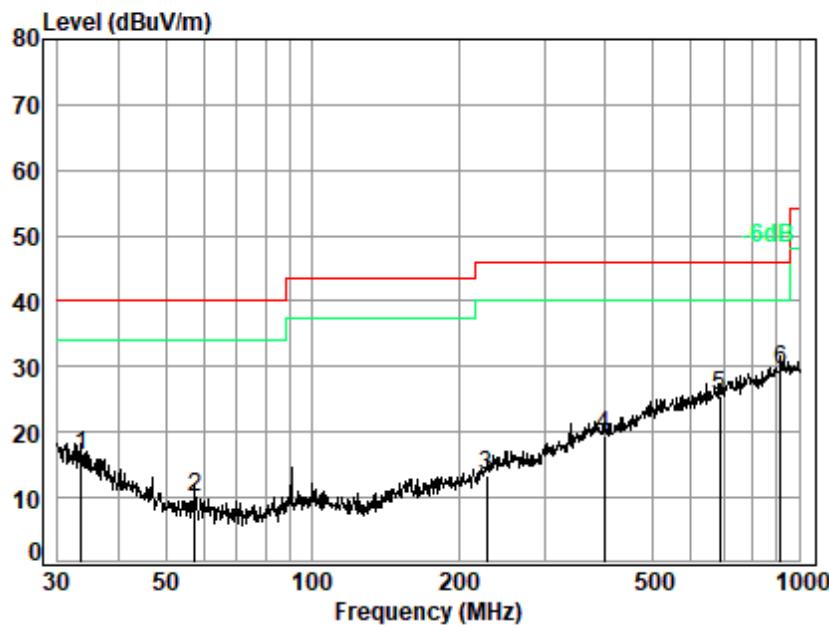
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Test Mode: 30; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 00767WM  
Test Mode: 30

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					dB/m	dBuV	dBuV/m	dBuV/m
1	33.56	19.63	0.68	27.78	23.87	16.40	40.00	-23.60 QP
2	57.39	11.73	0.90	27.71	25.02	9.94	40.00	-30.06 QP
3	227.69	16.12	1.85	27.05	22.44	13.36	46.00	-32.64 QP
4	397.63	20.65	2.54	27.15	23.58	19.62	46.00	-26.38 QP
5	687.15	25.71	3.47	27.76	24.04	25.46	46.00	-20.54 QP
6 q	916.07	28.06	4.13	26.65	24.06	29.60	46.00	-16.40 QP

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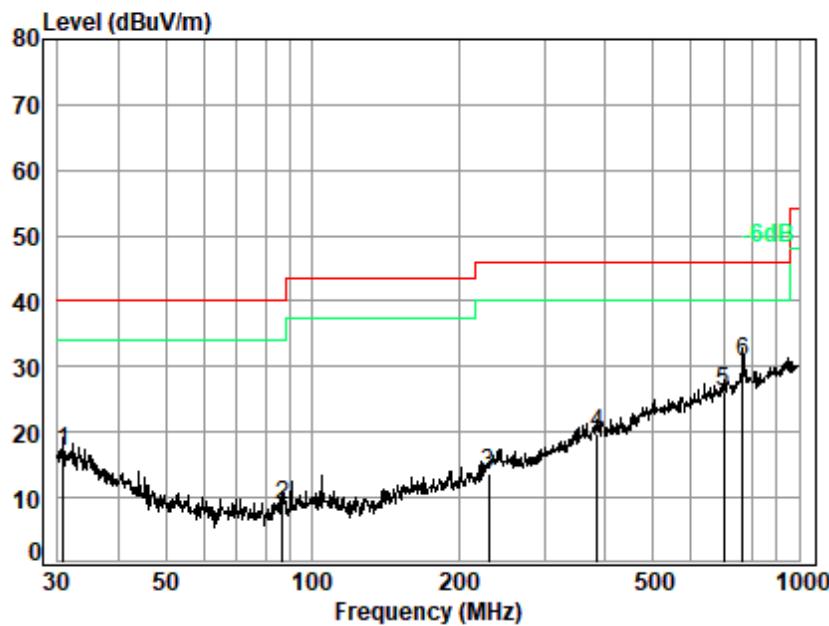
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Test Mode: 31; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 00767WM  
Test Mode: 31

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.75	20.86	0.65	27.79	23.35	17.07	40.00	-22.93 QP
2	86.81	11.28	1.11	27.63	24.17	8.93	40.00	-31.07 QP
3	230.10	16.46	1.86	27.04	22.32	13.60	46.00	-32.40 QP
4	385.28	20.89	2.49	27.10	23.60	19.88	46.00	-26.12 QP
5	699.30	25.93	3.51	27.73	24.39	26.10	46.00	-19.90 QP
6 q	766.06	26.59	3.72	27.56	28.00	30.75	46.00	-15.25 QP

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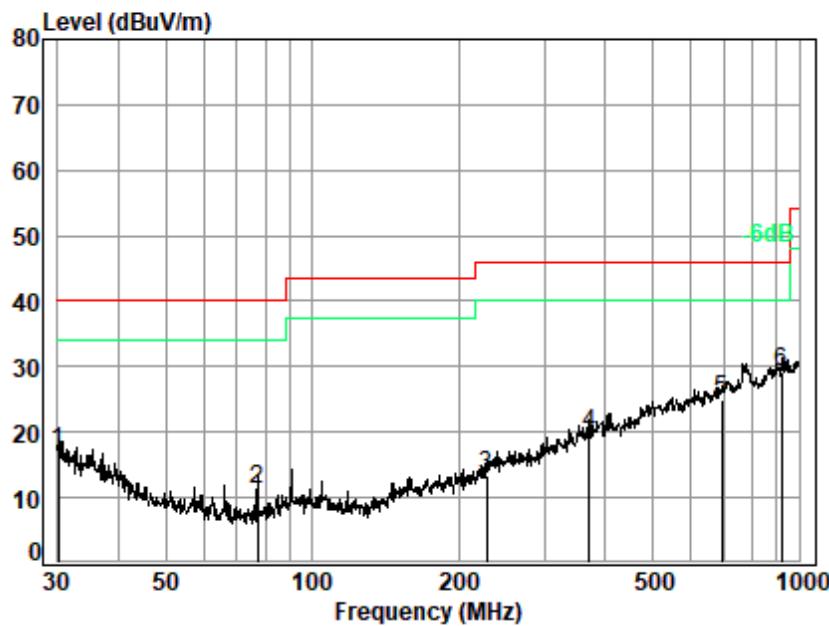
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Test Mode: 31; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 00767WM  
Test Mode: 31

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					dB/m	dBuV	dBuV/m	dBuV/m
MHz	dB	dB	dB	dBuV	dBuV/m	dBuV/m	dBuV/m	dB
1	30.11	21.15	0.64	27.79	22.99	16.99	40.00	-23.01 QP
2	77.05	10.39	1.04	27.66	27.62	11.39	40.00	-28.61 QP
3	228.49	16.23	1.86	27.05	22.40	13.44	46.00	-32.56 QP
4	370.70	20.47	2.44	27.04	23.89	19.76	46.00	-26.24 QP
5	694.42	25.82	3.49	27.74	23.40	24.97	46.00	-21.03 QP
6 q	922.52	28.19	4.15	26.60	23.58	29.32	46.00	-16.68 QP

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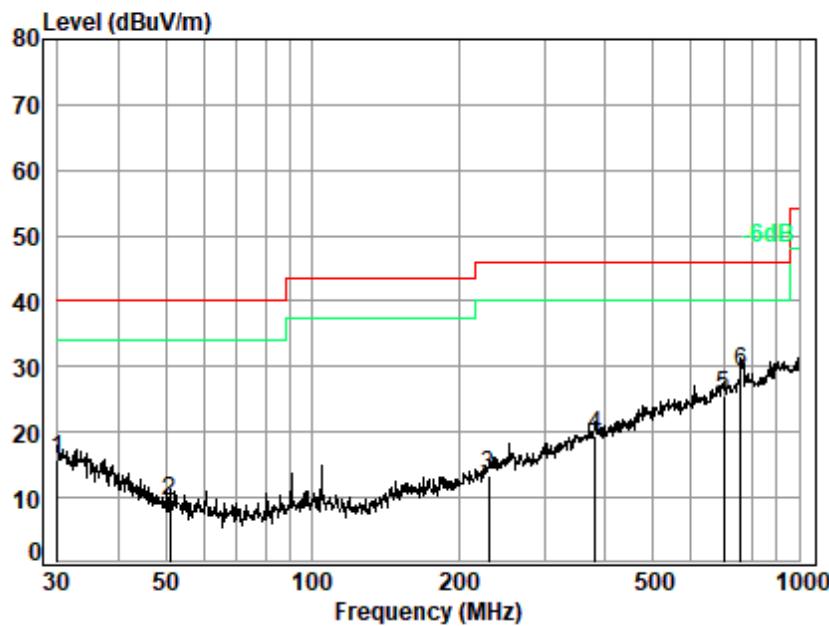
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Test Mode: 32; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 00767WM  
Test Mode: 32

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark
					dB	dBuV	dBuV/m	dBuV/m
MHz	dB/m	dB	dB	dB	dB	dB	dB	-
1	30.00	21.20	0.64	27.79	21.76	15.81	40.00	-24.19 QP
2	50.94	12.61	0.84	27.73	23.60	9.32	40.00	-30.68 QP
3	230.10	16.46	1.86	27.04	21.98	13.26	46.00	-32.74 QP
4	381.25	20.91	2.48	27.08	23.21	19.52	46.00	-26.48 QP
5	699.30	25.93	3.51	27.73	23.99	25.70	46.00	-20.30 QP
6 q	758.04	26.48	3.70	27.58	26.64	29.24	46.00	-16.76 QP

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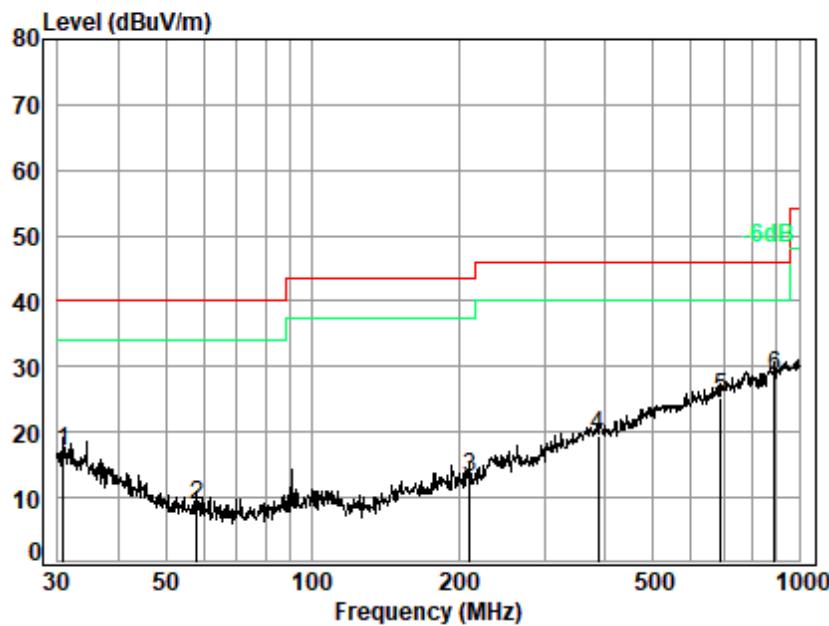
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Test Mode: 32; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 00767WM  
Test Mode: 32

Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit		Over Limit	Remark	
					dB	dBuV	dBuV/m	dBuV/m	dB
MHz	dB/m	dB	dB	dB	dB	dB	dB	-	
1	30.85	20.81	0.65	27.79	23.43	17.10	40.00	-22.90	QP
2	58.00	11.69	0.90	27.71	24.03	8.91	40.00	-31.09	QP
3	210.79	14.78	1.78	27.12	23.72	13.16	43.50	-30.34	QP
4	386.63	20.85	2.50	27.10	23.17	19.42	46.00	-26.58	QP
5	691.99	25.74	3.49	27.74	23.90	25.39	46.00	-20.61	QP
6 q	890.73	28.06	4.07	26.83	23.42	28.72	46.00	-17.28	QP

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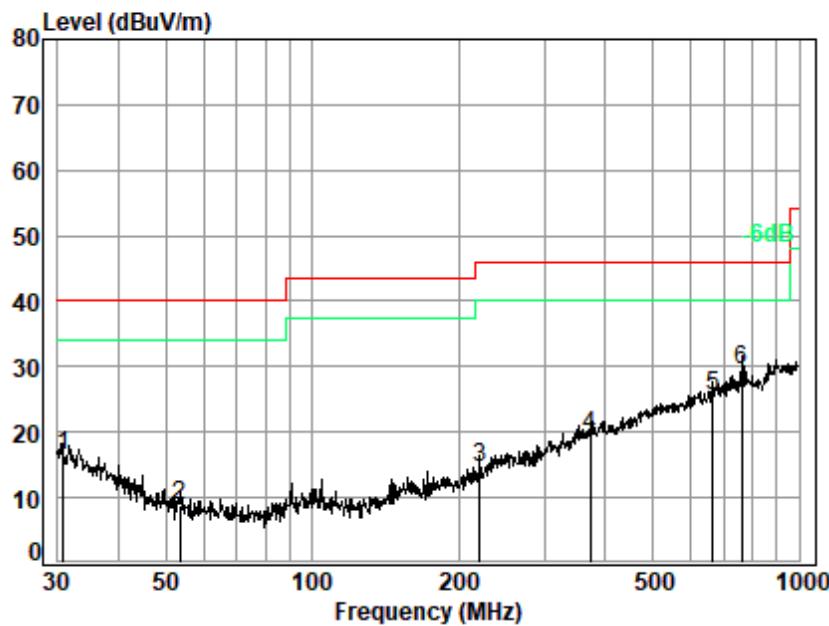
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Test Mode: 37; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 00767WM  
Test Mode: 37

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.75	20.86	0.65	27.79	22.60	16.32	40.00	-23.68 QP
2	53.51	12.21	0.86	27.72	23.57	8.92	40.00	-31.08 QP
3	220.62	15.22	1.82	27.08	24.51	14.47	46.00	-31.53 QP
4	373.31	20.61	2.45	27.05	23.53	19.54	46.00	-26.46 QP
5	665.80	25.41	3.41	27.81	24.60	25.61	46.00	-20.39 QP
6 q	760.70	26.47	3.70	27.58	27.06	29.65	46.00	-16.35 QP

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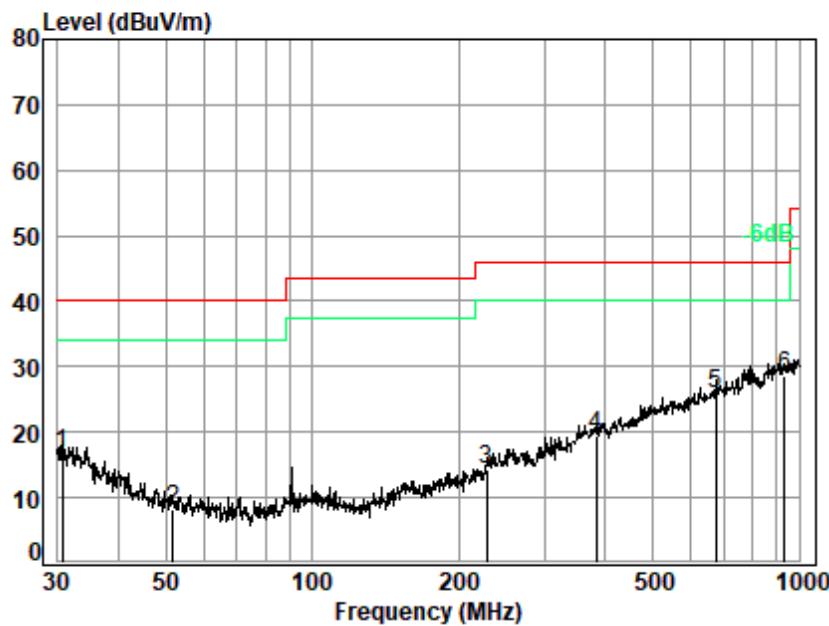
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Test Mode: 37; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 00767WM  
Test Mode: 37

	Ant Freq	Cable Factor	Preamp Loss	Read Level Factor	Level dBuV	Limit dBuV/m	Line dBuV/m	Over Limit dB	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.64	20.90	0.65	27.79	22.91	16.67	40.00	-23.33	QP
2	51.84	12.48	0.85	27.73	22.70	8.30	40.00	-31.70	QP
3	227.69	16.12	1.85	27.05	23.32	14.24	46.00	-31.76	QP
4	382.59	20.90	2.48	27.09	23.11	19.40	46.00	-26.60	QP
5	675.21	25.71	3.44	27.79	24.57	25.93	46.00	-20.07	QP
6 q	932.27	28.16	4.17	26.53	22.77	28.57	46.00	-17.43	QP

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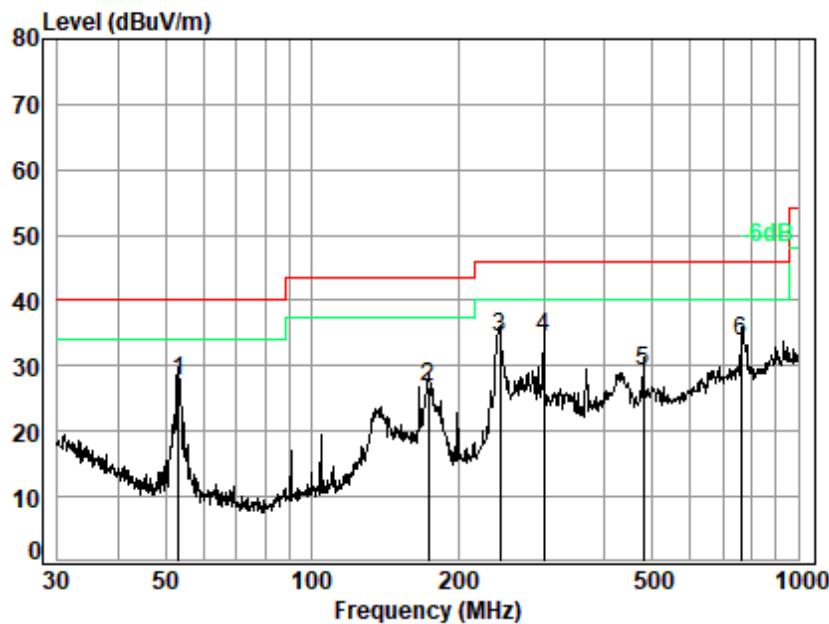
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Test Mode: 38; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 00767WM  
Test Mode: 38

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	53.13	12.27	0.86	27.73	42.30	27.70	40.00	-12.30 QP
2	173.81	13.69	1.59	27.28	38.78	26.78	43.50	-16.72 QP
3 q	243.38	17.09	1.92	26.99	42.31	34.33	46.00	-11.67 QP
4	299.32	17.94	2.17	26.75	40.89	34.25	46.00	-11.75 QP
5	480.53	22.75	2.82	27.48	31.16	29.25	46.00	-16.75 QP
6	763.38	26.52	3.71	27.57	31.24	33.90	46.00	-12.10 QP

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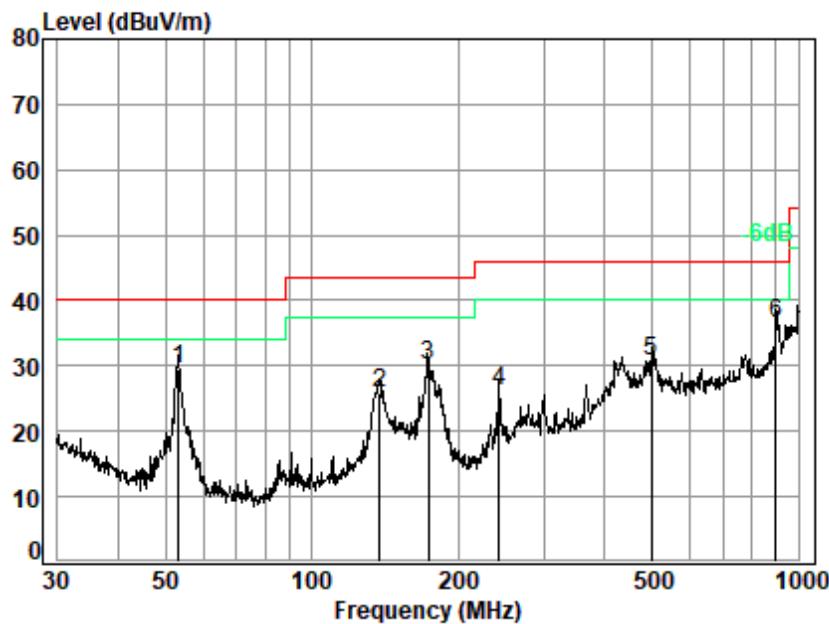
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Test Mode: 38; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 00767WM  
Test Mode: 38

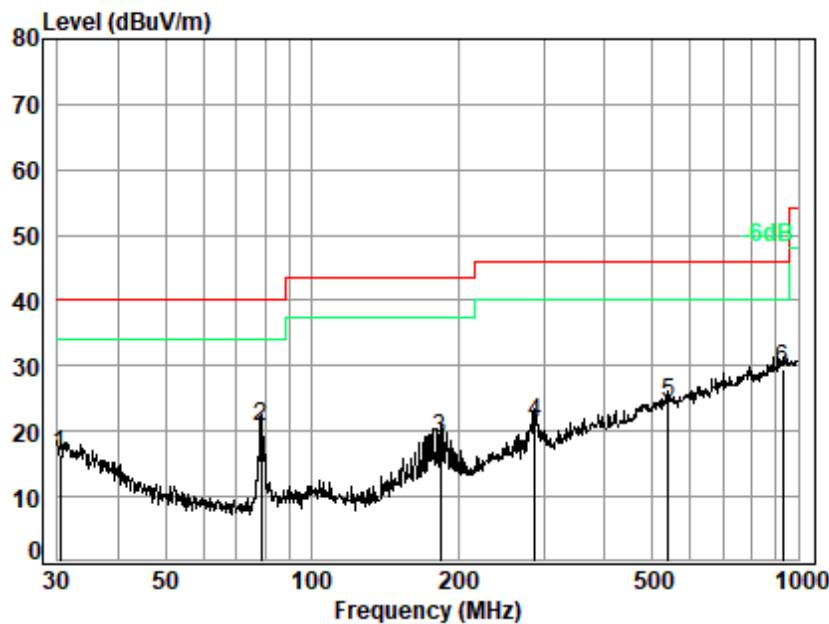
Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark	
								MHz	dB/m
1	53.32	12.24	0.86	27.72	44.11	29.49	40.00	-10.51	QP
2	137.90	11.62	1.39	27.43	40.28	25.86	43.50	-17.64	QP
3	173.21	13.64	1.59	27.28	42.02	29.97	43.50	-13.53	QP
4	242.53	17.09	1.92	26.99	34.08	26.10	46.00	-19.90	QP
5	497.68	22.87	2.88	27.55	32.51	30.71	46.00	-15.29	QP
6 q	900.15	27.82	4.09	26.76	31.45	36.60	46.00	-9.40	QP

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Test Mode: 39; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 00767WM  
Test Mode: 39

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.42	21.00	0.64	27.79	22.58	16.43	40.00	-23.57 QP
2	78.69	10.40	1.05	27.65	36.80	20.60	40.00	-19.40 QP
3	183.84	14.22	1.64	27.24	30.30	18.92	43.50	-24.58 QP
4	286.98	16.96	2.11	26.80	29.02	21.29	46.00	-24.71 QP
5	541.37	23.67	3.02	27.73	25.29	24.25	46.00	-21.75 QP
6 q	929.01	28.16	4.17	26.56	23.67	29.44	46.00	-16.56 QP

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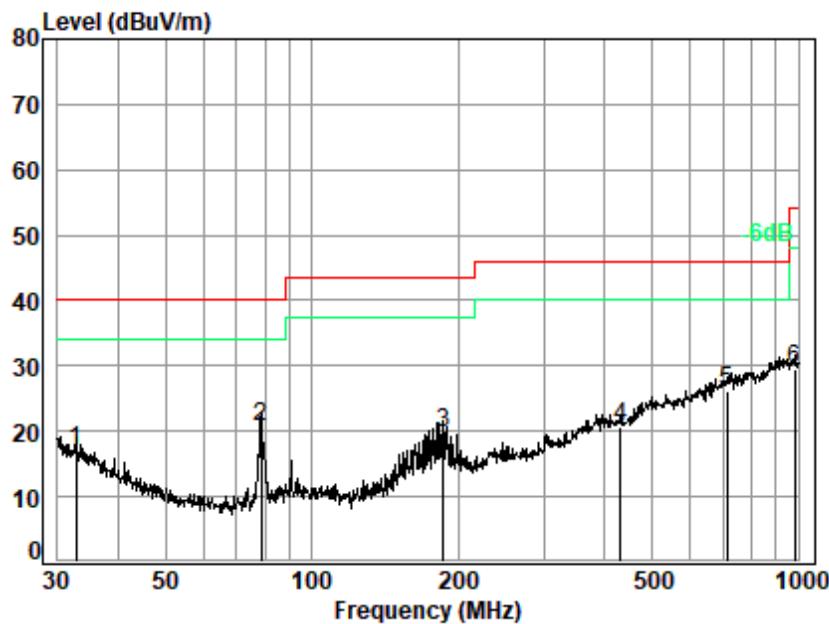
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Test Mode: 39; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 00767WM  
Test Mode: 39

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.75	19.98	0.67	27.78	24.18	17.05	40.00	-22.95 QP
2 q	78.69	10.40	1.05	27.65	37.01	20.81	40.00	-19.19 QP
3	186.44	14.30	1.66	27.23	30.92	19.65	43.50	-23.85 QP
4	431.03	20.95	2.66	27.28	24.32	20.65	46.00	-25.35 QP
5	714.17	26.14	3.56	27.69	24.24	26.25	46.00	-19.75 QP
6	982.62	28.02	4.30	26.17	23.36	29.51	54.00	-24.49 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(dB $\mu$ V/m) peak, 54(dB $\mu$ V/m) average at 3m distance

83.54(dB $\mu$ V/m) peak, 63.54(dB $\mu$ V/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: 24.1 °C Humidity: 61.8 % RH Atmospheric Pressure: 1020 mbar

#### 6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	26	Normal Operating: Charge+front camera on
Pre-scan	27	Normal Operating: Charge+rear camera on
Final test	28	Normal Operating: Charge+play MP4+earphone
Final test	29	Normal Operating: Charge+GSM850 Rx
Pre-scan	30	Normal Operating: Charge+WCDMA B5 Rx
Pre-scan	31	Normal Operating: Charge+LTE B5 Rx
Pre-scan	32	Normal Operating: Charge+NR n5 Rx
Pre-scan	37	Normal Operating: WPC charge the EUT
Final test	38	Normal Operating: Data exchange between PC and EUT
Pre-scan	39	Normal Operating: USB output

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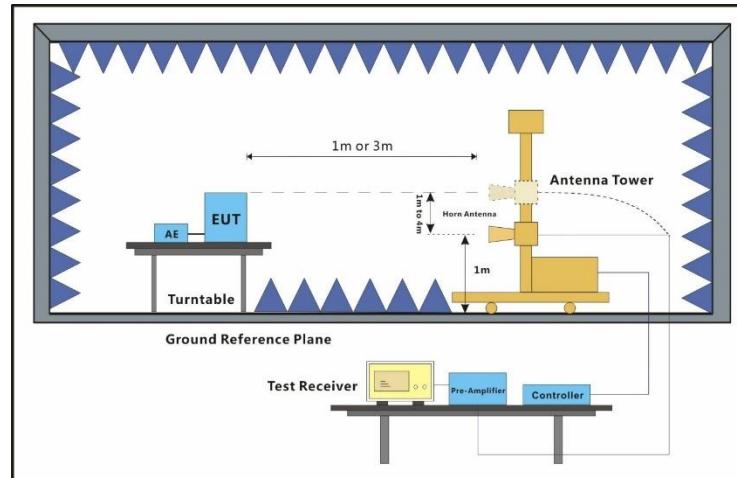
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### 6.3.3 Test Setup Diagram



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

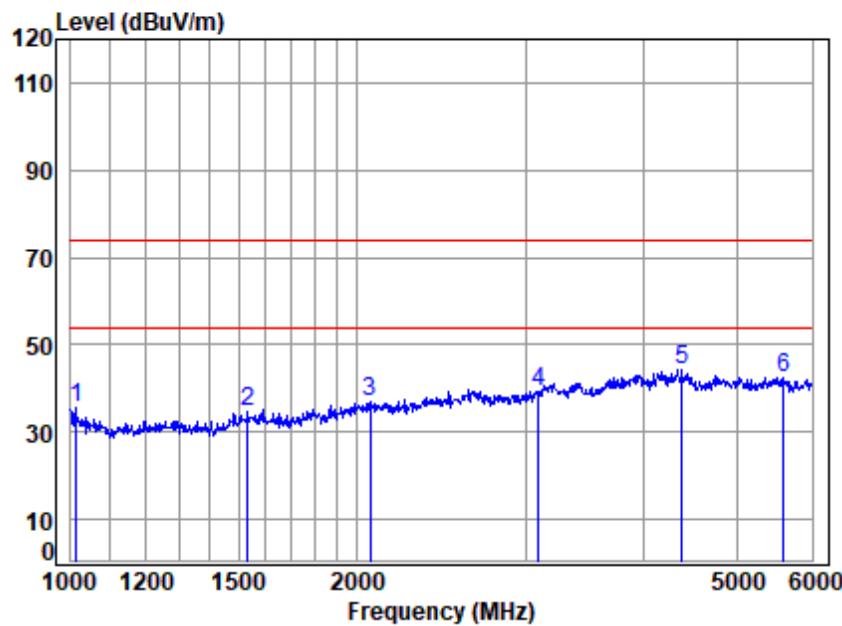
Remark: For frequency above 6GHz, no emission was found, so it's not recorded in the report.

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Test Mode: 28; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00767WM  
Mode : 28

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Line Limit	Over Limit	Remark	
								MHz	dB
1	1012.621	4.55	25.90	61.48	66.40	35.37	74.00	-38.63	peak
2	1534.540	4.65	26.94	61.67	64.78	34.70	74.00	-39.30	peak
3	2062.401	5.67	28.95	61.76	63.88	36.74	74.00	-37.26	peak
4	3097.515	6.74	31.53	61.39	62.47	39.35	74.00	-34.65	peak
5 p	4377.203	8.02	34.62	61.52	62.92	44.04	74.00	-29.96	peak
6	5595.042	9.34	34.70	62.48	60.85	42.41	74.00	-31.59	peak

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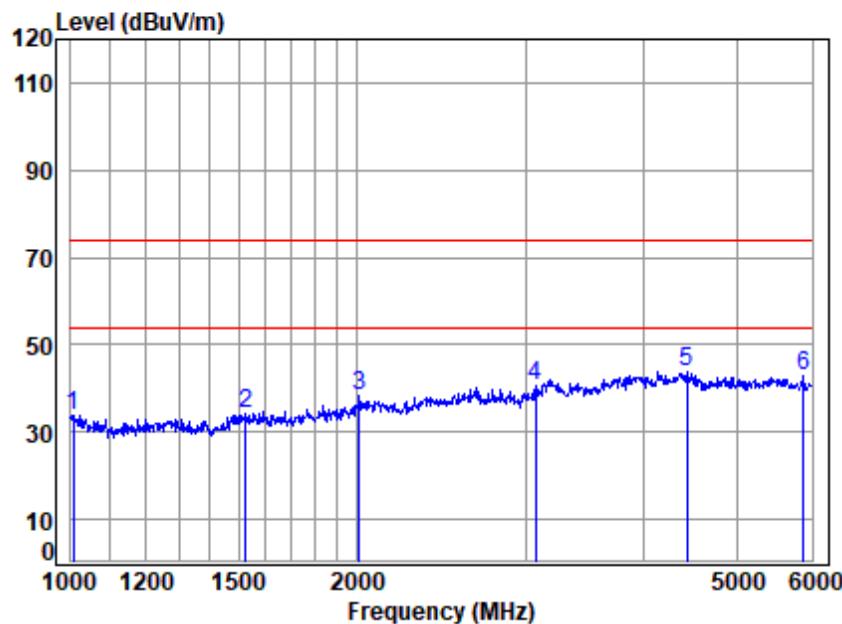
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Test Mode: 28; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00767WM  
Mode : 28

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Factor	Level	Level	
1	1007.193	4.55	26.07	61.47	64.83	33.98	74.00 -40.02 peak
2	1526.313	4.63	26.91	61.67	64.28	34.15	74.00 -39.85 peak
3	2007.709	5.56	28.83	61.79	65.70	38.30	74.00 -35.70 peak
4	3075.395	6.73	30.91	61.40	64.26	40.50	74.00 -33.50 peak
5 p	4432.448	7.95	34.41	61.57	62.79	43.58	74.00 -30.42 peak
6	5882.902	9.47	34.53	62.67	61.49	42.82	74.00 -31.18 peak

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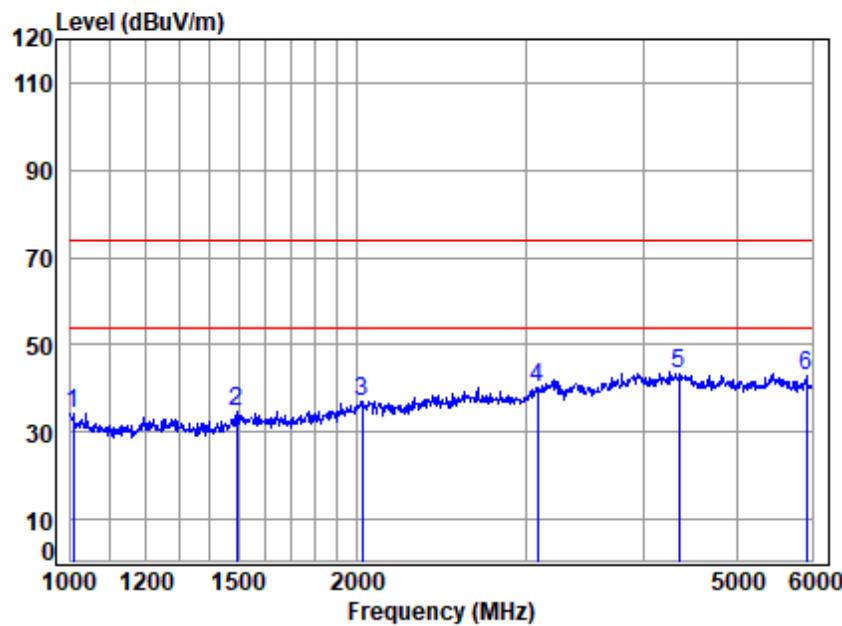
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Test Mode: 29; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00767WM  
Mode : 29

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark		
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit	
1	1005.390	4.55	26.13	61.47	65.22	34.43	74.00	-39.57	peak
2	1493.846	4.57	26.63	61.66	65.06	34.60	74.00	-39.40	peak
3	2022.150	5.59	28.89	61.78	64.48	37.18	74.00	-36.82	peak
4	3091.970	6.74	31.38	61.39	63.57	40.30	74.00	-33.70	peak
5 p	4353.737	8.06	34.43	61.50	62.23	43.22	74.00	-30.78	peak
6	5925.216	9.49	34.65	62.70	61.37	42.81	74.00	-31.19	peak

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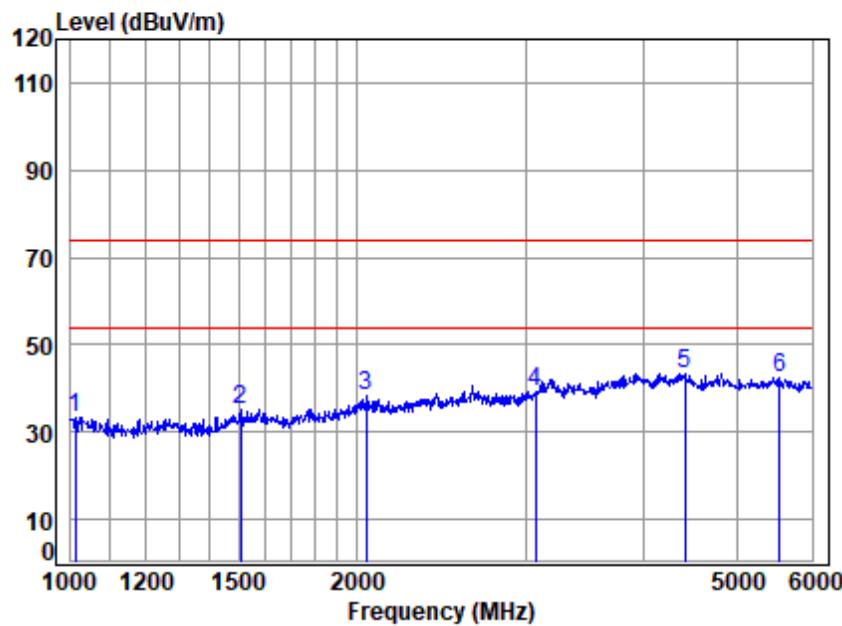
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Test Mode: 29; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00767WM  
Mode : 29

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit		Over Limit	Remark
					Level	Line		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 1010.809	4.55	25.95	61.47	64.39	33.42	74.00	-40.58	peak
2 1507.289	4.59	26.83	61.66	65.19	34.95	74.00	-39.05	peak
3 2040.348	5.63	28.96	61.77	65.33	38.15	74.00	-35.85	peak
4 3075.395	6.73	30.91	61.40	63.14	39.38	74.00	-34.62	peak
5 p 4416.593	7.97	34.60	61.56	62.44	43.45	74.00	-30.55	peak
6 5545.141	9.32	34.68	62.44	60.73	42.29	74.00	-31.71	peak

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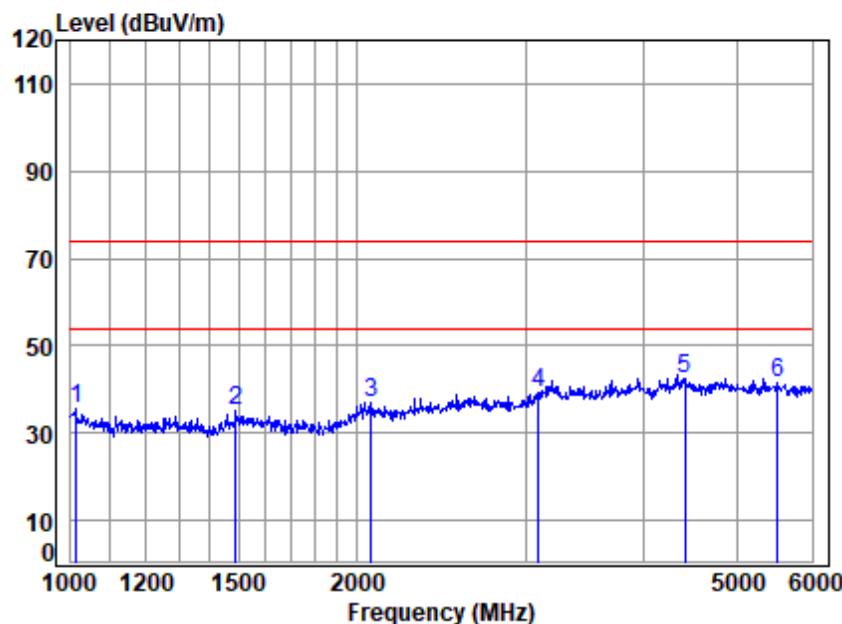
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Test Mode: 38; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 00767WM  
Mode : 38

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level			
1	1012.621	5.92	25.90	61.48	65.25	35.59	74.00 -38.41 peak
2	1491.172	4.91	26.55	61.65	65.27	35.08	74.00 -38.92 peak
3	2066.100	5.12	28.94	61.76	64.47	36.77	74.00 -37.23 peak
4	3097.515	6.02	31.53	61.39	63.00	39.16	74.00 -34.84 peak
5	4416.593	7.08	34.60	61.56	62.53	42.65	74.00 -31.35 peak
6	5525.306	8.32	34.60	62.43	61.03	41.52	74.00 -32.48 peak

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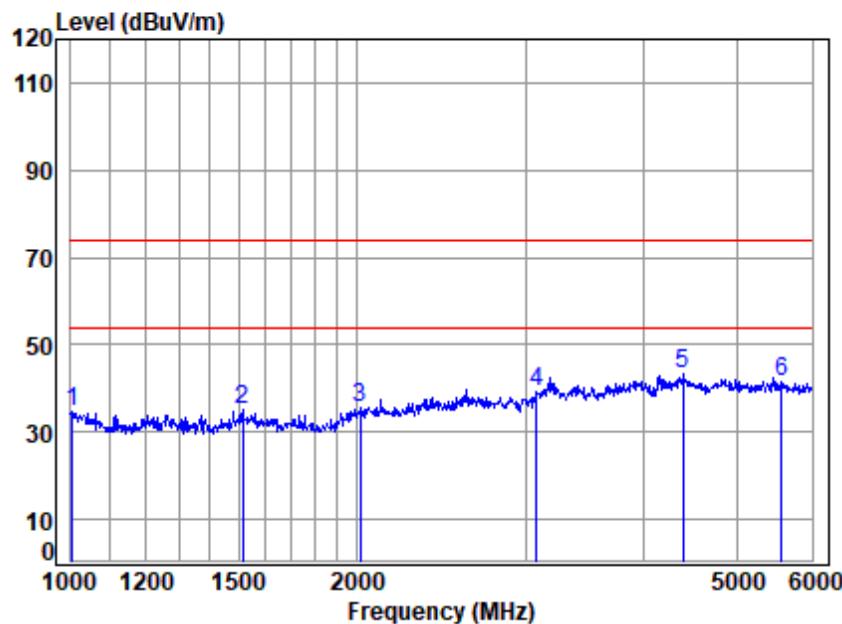
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Test Mode: 38; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 00767WM  
Mode : 38

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark		
	MHz	Loss	Factor	Factor	Level	Level	Line	Limit	
1	1003.590	5.94	26.19	61.47	63.93	34.59	74.00	-39.41	peak
2	1515.413	4.90	26.86	61.66	65.22	35.32	74.00	-38.68	peak
3	2011.310	5.07	28.85	61.78	63.53	35.67	74.00	-38.33	peak
4	3080.910	6.01	31.07	61.40	63.54	39.22	74.00	-34.78	peak
5 p	4392.917	7.06	34.74	61.54	63.25	43.51	74.00	-30.49	peak
6	5575.028	8.37	34.70	62.46	61.05	41.66	74.00	-32.34	peak

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## 7 Test Setup Photo

Please refer to Appendix A.1 – 15B Setup Photos.



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## 8 EUT Constructional Details (EUT Photos)

Please refer to Appendix\_EUTPhoto\_SZCR2403000767WM.

- End of the Report -



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