

# TEST REPORT

**Application No.:** SZCR2312003974AT  
**Applicant:** Lenovo (Shanghai) Electronics Technology Co., Ltd.  
**Address of Applicant:** Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone  
**Manufacturer:** Lenovo PC HK Limited  
**Address of Manufacturer:** 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Portable Tablet Computer  
**Model No.:** TB330FUP  
**Trade Mark:** Lenovo  
**FCC ID:** O57TB330FUP  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2023-09-01(for report SZCR230900287201)  
2023-12-06(for report SZCR231200397401)  
**Date of Test:** 2023-09-07 to 2023-09-09(for report SZCR230900287201)  
2023-12-13 to 2023-12-16(for report SZCR231200397401)  
**Date of Issue:** 2023-09-25(for report SZCR230900287201)  
2023-12-22(for report SZCR231200397401)

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Kenxu

Keny Xu  
EMC Laboratory Manager



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

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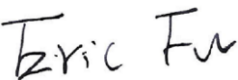
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SZEMC-TRF-01 Rev. A/1

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-12-22		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	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

### Remark:

Model No.: TB330FUP

This test report (Ref. No.: SZCR231200397401) is based on the original test report (Ref. No.: SZCR230900287201) which dated on 2023-09-25.

Review this report and original report, this report just changed the model number.

According to the declaration from the applicant, the models in this report and models in original report were identical, the difference as declared by applicant.

Considering the difference, pre-scan was performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report Conducted Emissions at Mains Terminals (150kHz-30MHz), Radiated Emissions (30MHz-1GHz) and Radiated Emissions (Above 1GHz) were fully retested on model and shown the data in this report, other test data were copied from to original report SZCR230900287201.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 3.91V from internal rechargeable battery which can be charge by AC/DC adapter
Highest Internal Frequency:	Above 1.2GHz

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.

USB cable no.	Model no.	Manufacturer
1	K235-08646-HO	kingpower Electronics Co.,Ltd
2	SHQ-A168A	Saibao (Jiangxi) Industrial Co., Ltd

Battery no.	Model no.	Manufacturer
1	L23D2P31	NINGDE AMPEREX TECHNOLOGY LIMITED
2	L23D2P31	SUNWODA

Pen	Model no.	Manufacturer
1	AP500U	Lenovo
2	AP400U	Lenovo

Adapter no.	Model no.	Manufacturer
1	MC-101	Salcomp
2	MC-101	Chenyang

Screen no.	Model no.	Manufacturer
1	TV110WUM-LL0-D8P0	BOE
2	HD110IA-12B	Innolux

LED no.	Model no.	Manufacturer
1	LL828W1D-QR5T4	LIGHTING
2	SJ-TD2016QFX-5257	SUIJING

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	L480	REF. No.SEA18C00E
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A00
Router	NETGEAR	DGN2200	REF. No.SEA22A00
Earphone	Lianchuang	22040150	REF. No.SEA10A01
TF Card	Kingston	SDC8GB	REF. No.SEA04A00



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## 4.3 Test modes

Pretest these modes to find the worst case and show the worse data in the test items:	00	Transfer data between the EUT1 and the PC+USB Cable1
	01	Transfer data between the EUT2 and the PC+USB Cable2
	02	Transfer data between the EUT3 and the PC+USB Cable(worst)
	03	BT+WLAN2.4G+EUT1+Playing MP4+USB Cable(worst)+adapter1
	04	BT+WLAN5G+EUT2+camera(Front)+USB Cable(worst)+adapter2
	05	BT+WLAN2.4G+EUT3+camera(Back)+USB Cable(worst)+adapter(worst)
	06	BT+WLAN2.4G+EUT1+Playing MP4+USB Cable1+adapter1
	07	BT+WLAN5G+EUT2+camera(Front)+USB Cable1+adapter2
	08	BT+WLAN5G+EUT2+camera(Front)+USB Cable1+adapter2+Keyboard

Product description in original report of SZCR230900287201:

Object	EUT1 (4+64GB)SKU1		EUT2 (4+128GB)SKU2		EUT3 (8+128GB)SKU3	
	Specifications	Supplier	Specifications	Supplier	Specifications	Supplier
Front Camera	TF8T6SA	TXD	TF8T6SA	TXD	LE8664FM	LCE
Rear Camera	LE8662AM	LCE	LED663AM	LCE	SL08A0RA	SUNWIN
DDR	CXDB5CCBM-MA-A	CXMT	K4UBE3D4AB-MGCL	Samsung	K4UCE3Q4AB-MGCL	Samsung
EMMC	BWCTAKJ11X64G	BIWIN	FEMDNN128G-A3A56	Longsys	FEMDNN128G-A3A56	Longsys
Battery	L23D2P31	ATL	L23D2P31	ATL	L23D2P31	XWD
PCB	H103C	RedBoard	H103C	RedBoard	8G	KINWONG
Housing	>PC-GF20FR (40) <	HUAYU	>PC-GF20FR (40) <	HUAYU	>PC-GF20FR (40) <	XIQIN

Product description in report of SZCR231200397401:

Object	Sample 1 (8+128GB)		Sample 2 (4+128GB)	
	Specifications	Supplier	Specifications	Supplier
Front Camera	LE8664FM	LCE	TF8T6SA	TXD
Rear Camera	TMBS64A	TXD	LED663AM	LCE
DDR	CXDB5CCBM-MA-A	CXMT	K4UBE3D4AB-MGCL	Samsung
EMMC	BWCTAKJ11X64G	Biwin	FEMDNN128G-A3A56	Longsys
Battery	L23D2P31	XWD	L23D2P31	ATL



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Main Board	8G	KINWONG	H103C	RedBoard
LED	SJ-TD2016QNX-5257	Suijing	LL828W1D-QR5T4	LIGHTING
LCD	HD110IA-12B	Innolux	TV110WUM-LL0-D8P0	BOE

Object	Sample 3 (4+64GB)	
	Specifications	Supplier
Front Camera	TF8T6SA	TXD
Rear Camera	LED663AM	LCE
DDR	K4UCE3Q4AB-MGCL	Samsung
EMMC	FEMDNN128G-A3A56	Longsys
Battery	L23D2P31	ATL
Main Board	TF8T6SA	TXD
LED	LED663AM	LCE
LCD	K4UCE3Q4AB-MGCL	Samsung

## 4.4 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  $U_{\text{lab}}$  (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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## 4.5 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.

## 4.6 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.

## 4.7 Deviation from Standards

None

## 4.8 Abnormalities from Standard Conditions

None





## 5 Equipment List

Test Equipment for original report of SZCR230900287201:

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	2023-03-20	2024-03-19
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
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2022-10-20	2023-10-19
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2021-10-28	2023-10-27
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
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



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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	2023-03-23	2024-03-22



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New Test Equipment for report of SZCR231200397401:

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	2023-03-20	2024-03-19
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
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19	2024-09-18
LISN	ETS-LINDGREN	3816/2	SEM007-02	2023-03-20	2024-03-19

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2023-10-19	2024-10-18
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
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



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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	2023-03-23	2024-03-22



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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: 23.4 °C

Humidity: 47.3 % RH

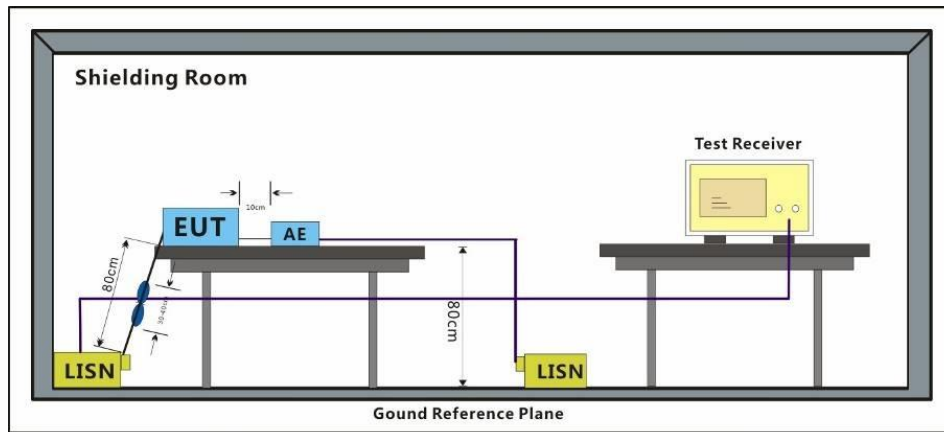
Atmospheric Pressure: 1000 mbar

#### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Transfer data between the EUT1 and the PC+USB Cable1
Final test	02	Transfer data between the EUT3 and the PC+USB Cable1
Final test	03	BT+WLAN2.4G+EUT1+Playing MP4+USB Cable1+adapter1
Final test	04	BT+WLAN5G+EUT2+camera(Front)+USB Cable1+adapter2
Final test	05	BT+WLAN2.4G+EUT3+camera(Back)+USB Cable1+adapter2
Final test	06	BT+WLAN2.4G+EUT1+Playing MP4+USB Cable1+adapter1
Final test	08	BT+WLAN5G+EUT2+camera(Front)+USB Cable1+adapter2+Keyboard



### 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



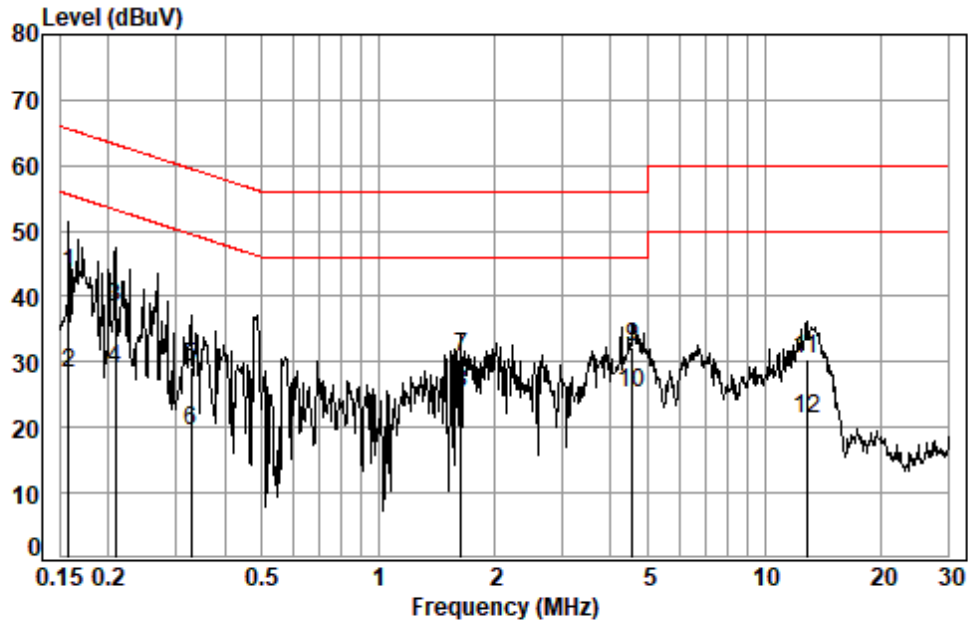
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Test data for original report of SZCR230900287201:



Site : Shielding Room  
Condition: Neutral  
Job No. : 02872AT  
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1582	0.02	9.62	33.87	43.51	65.56	-22.05	QP
2	0.1582	0.02	9.62	18.57	28.21	55.56	-27.35	Average
3	0.2083	0.02	9.62	28.69	38.33	63.27	-24.94	QP
4	0.2083	0.02	9.62	19.25	28.89	53.27	-24.38	Average
5	0.3268	0.03	9.62	19.70	29.35	59.53	-30.18	QP
6	0.3268	0.03	9.62	9.85	19.50	49.53	-30.03	Average
7	1.6363	0.06	9.63	21.07	30.76	56.00	-25.24	QP
8 *	1.6363	0.06	9.63	15.62	25.31	46.00	-20.69	Average
9	4.5494	0.09	9.68	22.48	32.25	56.00	-23.75	QP
10	4.5494	0.09	9.68	15.46	25.23	46.00	-20.77	Average
11	12.8516	0.20	9.88	20.39	30.47	60.00	-29.53	QP
12	12.8516	0.20	9.88	11.15	21.23	50.00	-28.77	Average

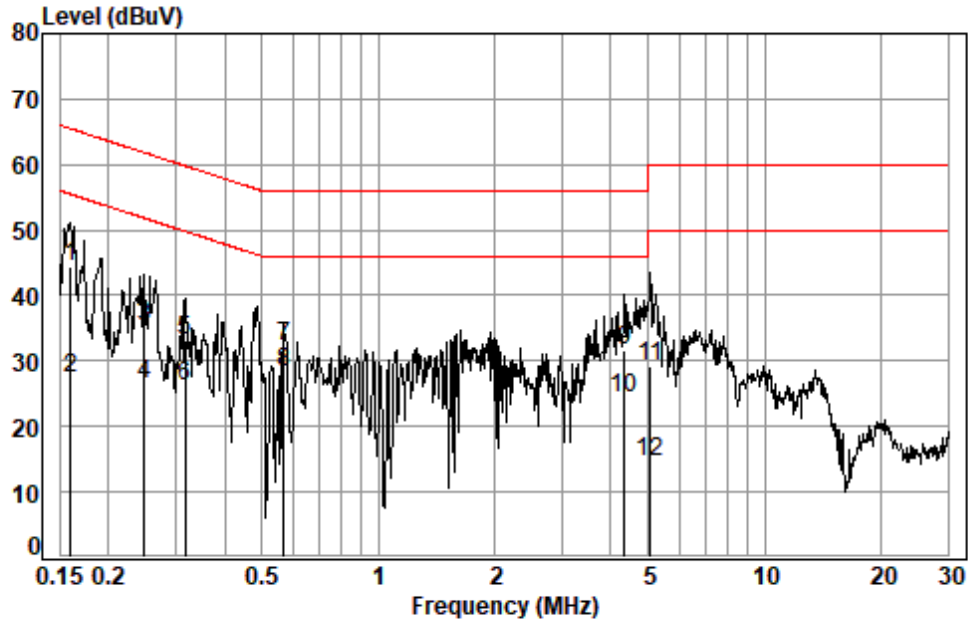


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Test Mode: 00; Line: Live line



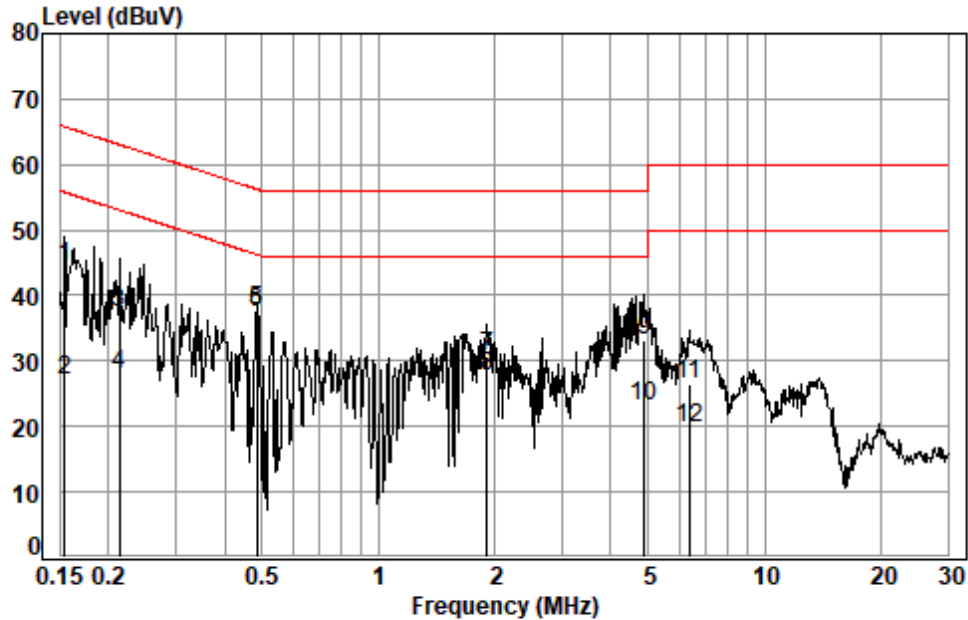
Site : Shielding Room  
Condition: Line  
Job No. : 02872AT  
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1598	0.02	9.62	34.66	44.30	65.47	-21.17	QP
2	0.1598	0.02	9.62	17.77	27.41	55.47	-28.06	Average
3	0.2481	0.03	9.62	25.54	35.19	61.82	-26.63	QP
4	0.2481	0.03	9.62	16.87	26.52	51.82	-25.30	Average
5	0.3166	0.03	9.62	23.62	33.27	59.80	-26.53	QP
6	0.3166	0.03	9.62	16.42	26.07	49.80	-23.73	Average
7	0.5701	0.04	9.62	22.70	32.36	56.00	-23.64	QP
8 *	0.5701	0.04	9.62	18.48	28.14	46.00	-17.86	Average
9	4.3376	0.09	9.66	21.77	31.52	56.00	-24.48	QP
10	4.3376	0.09	9.66	14.53	24.28	46.00	-21.72	Average
11	5.0580	0.09	9.67	19.41	29.17	60.00	-30.83	QP
12	5.0580	0.09	9.67	4.83	14.59	50.00	-35.41	Average





Test Mode: 02; Line: Live line

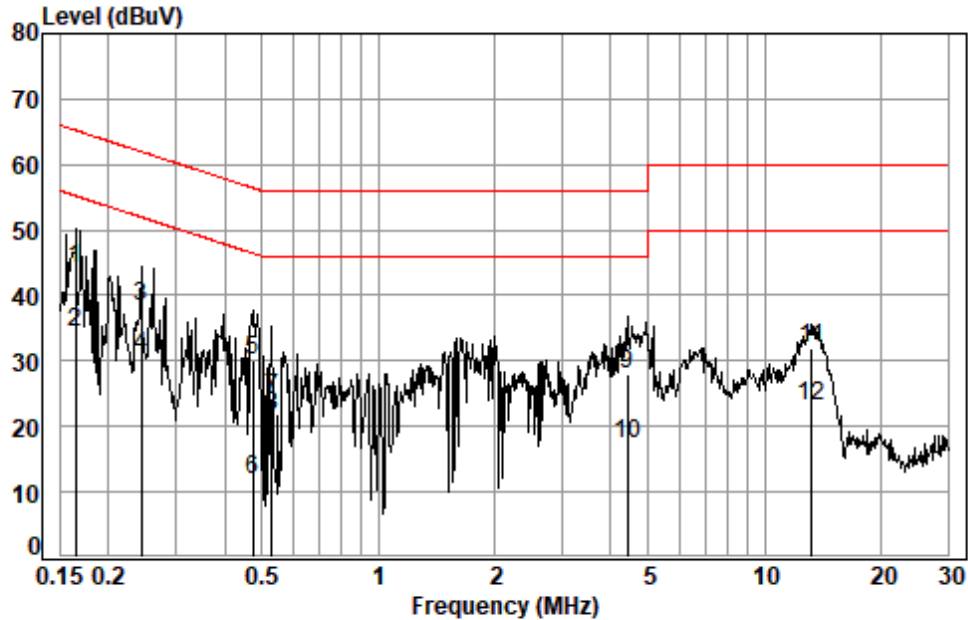


Site : Shielding Room  
Condition: Line  
Job No. : 02872AT  
Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1540	0.02	9.63	34.74	44.39	65.78	-21.39	QP
2	0.1540	0.02	9.63	17.42	27.07	55.78	-28.71	Average
3	0.2139	0.03	9.62	27.86	37.51	63.05	-25.54	QP
4	0.2139	0.03	9.62	18.36	28.01	53.05	-25.04	Average
5 *	0.4863	0.04	9.62	28.13	37.79	56.23	-18.44	QP
6 *	0.4863	0.04	9.62	27.66	37.32	46.23	-8.91	Average
7	1.9080	0.07	9.64	21.03	30.74	56.00	-25.26	QP
8	1.9080	0.07	9.64	17.95	27.66	46.00	-18.34	Average
9	4.8997	0.09	9.67	23.29	33.05	56.00	-22.95	QP
10	4.8997	0.09	9.67	13.23	22.99	46.00	-23.01	Average
11	6.3859	0.11	9.70	16.79	26.60	60.00	-33.40	QP
12	6.3859	0.11	9.70	10.06	19.87	50.00	-30.13	Average



Test Mode: 02; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 02872AT  
Test mode: 02

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1650	0.02	9.62	34.58	44.22	65.21	-20.99	QP
2 *	0.1650	0.02	9.62	24.86	34.50	55.21	-20.71	Average
3	0.2429	0.03	9.62	28.72	38.37	62.00	-23.63	QP
4	0.2429	0.03	9.62	21.11	30.76	52.00	-21.24	Average
5	0.4736	0.04	9.62	20.48	30.14	56.45	-26.31	QP
6	0.4736	0.04	9.62	2.22	11.88	46.45	-34.57	Average
7	0.5293	0.04	9.62	14.83	24.49	56.00	-31.51	QP
8	0.5293	0.04	9.62	11.92	21.58	46.00	-24.42	Average
9	4.4071	0.09	9.67	18.30	28.06	56.00	-27.94	QP
10	4.4071	0.09	9.67	7.58	17.34	46.00	-28.66	Average
11	13.2667	0.21	9.89	21.90	32.00	60.00	-28.00	QP
12	13.2667	0.21	9.89	12.95	23.05	50.00	-26.95	Average



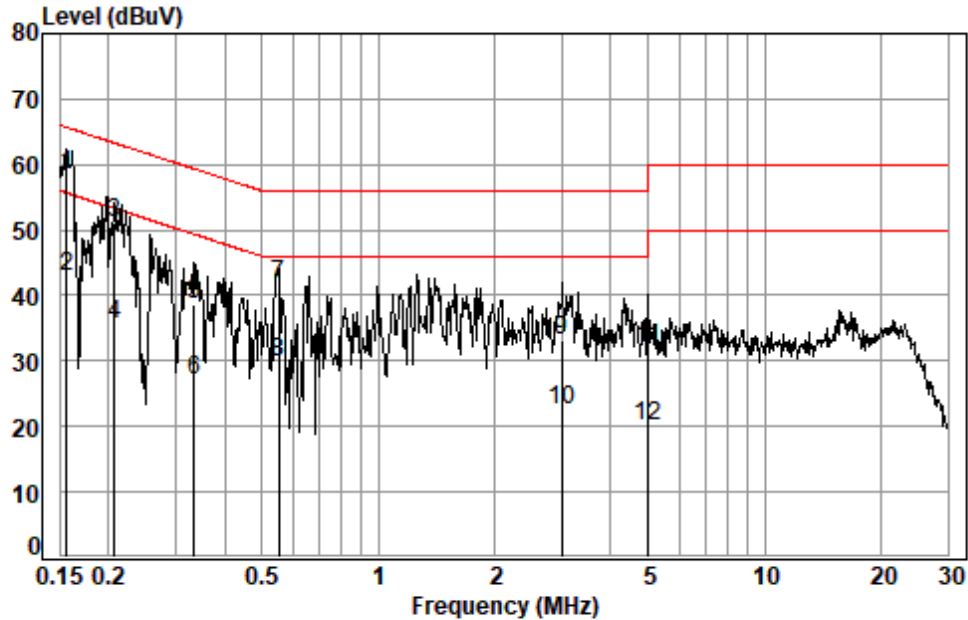
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Test Mode: 03; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 02872AT

Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1565	0.02	9.63	48.84	58.49	65.65	-7.16	QP
2 *	0.1565	0.02	9.63	33.27	42.92	55.65	-12.73	Average
3	0.2072	0.02	9.62	41.58	51.22	63.32	-12.10	QP
4	0.2072	0.02	9.62	26.01	35.65	53.32	-17.67	Average
5	0.3338	0.03	9.62	28.99	38.64	59.35	-20.71	QP
6	0.3338	0.03	9.62	17.53	27.18	49.35	-22.17	Average
7	0.5523	0.04	9.62	32.03	41.69	56.00	-14.31	QP
8	0.5523	0.04	9.62	20.22	29.88	46.00	-16.12	Average
9	2.9935	0.07	9.65	23.51	33.23	56.00	-22.77	QP
10	2.9935	0.07	9.65	12.71	22.43	46.00	-23.57	Average
11	5.0046	0.09	9.67	22.25	32.01	60.00	-27.99	QP
12	5.0046	0.09	9.67	10.25	20.01	50.00	-29.99	Average



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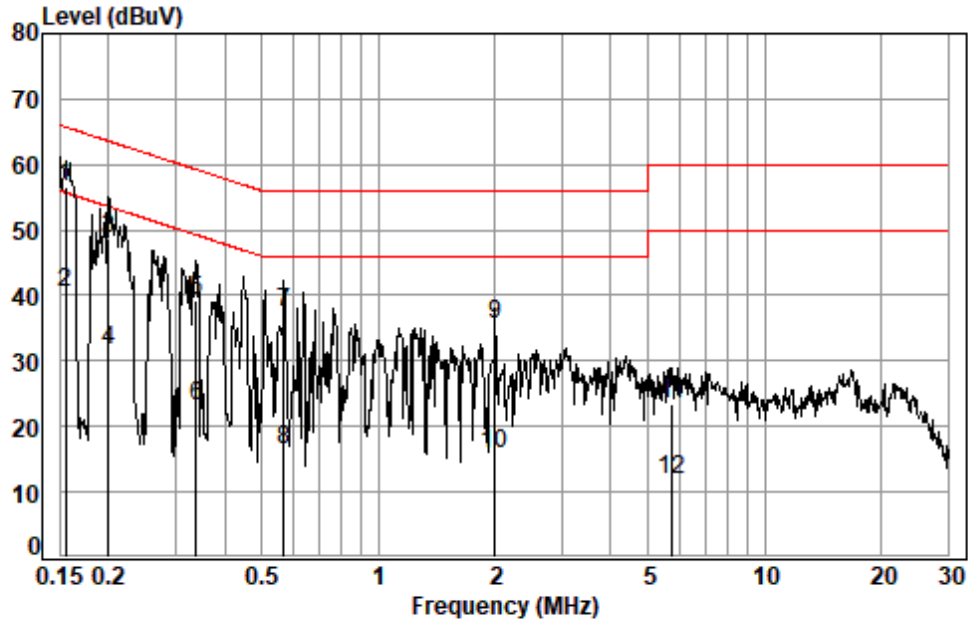
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Test Mode: 03; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 02872AT  
Test mode: 03

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1548	0.02	9.62	46.99	56.63	65.74	-9.11	QP
2 *	0.1548	0.02	9.62	30.83	40.47	55.74	-15.27	Average
3	0.2007	0.02	9.62	38.93	48.57	63.58	-15.01	QP
4	0.2007	0.02	9.62	21.95	31.59	53.58	-21.99	Average
5	0.3374	0.03	9.62	29.47	39.12	59.27	-20.15	QP
6	0.3374	0.03	9.62	13.59	23.24	49.27	-26.03	Average
7	0.5701	0.04	9.62	27.82	37.48	56.00	-18.52	QP
8	0.5701	0.04	9.62	6.91	16.57	46.00	-29.43	Average
9	2.0012	0.07	9.64	25.95	35.66	56.00	-20.34	QP
10	2.0012	0.07	9.64	6.26	15.97	46.00	-30.03	Average
11	5.7743	0.10	9.70	13.61	23.41	60.00	-36.59	QP
12	5.7743	0.10	9.70	2.08	11.88	50.00	-38.12	Average





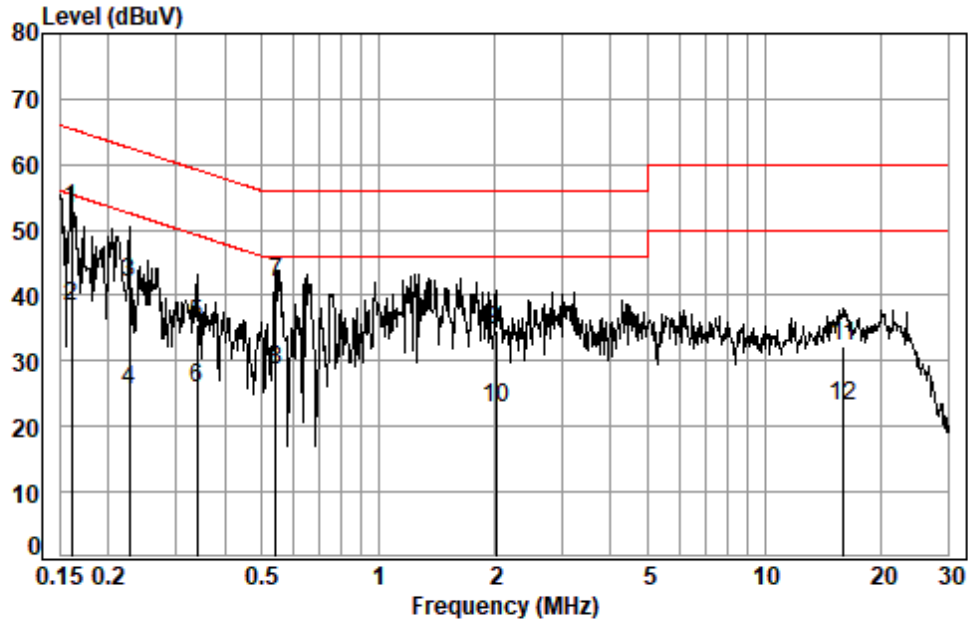
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Test Mode: 04; Line: Live line



Site : Shielding Room  
Condition: Line  
Job No. : 02872AT  
Test mode: 04

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1607	0.02	9.62	43.65	53.29	65.43	-12.14	QP
2 *	0.1607	0.02	9.62	28.68	38.32	55.43	-17.11	Average
3	0.2268	0.03	9.62	32.46	42.11	62.57	-20.46	QP
4	0.2268	0.03	9.62	15.79	25.44	52.57	-27.13	Average
5	0.3392	0.03	9.62	25.90	35.55	59.22	-23.67	QP
6	0.3392	0.03	9.62	16.20	25.85	49.22	-23.37	Average
7	0.5436	0.04	9.62	32.46	42.12	56.00	-13.88	QP
8	0.5436	0.04	9.62	18.92	28.58	46.00	-17.42	Average
9	2.0119	0.07	9.64	24.88	34.59	56.00	-21.41	QP
10	2.0119	0.07	9.64	12.99	22.70	46.00	-23.30	Average
11	16.0546	0.24	9.86	22.18	32.28	60.00	-27.72	QP
12	16.0546	0.24	9.86	12.93	23.03	50.00	-26.97	Average



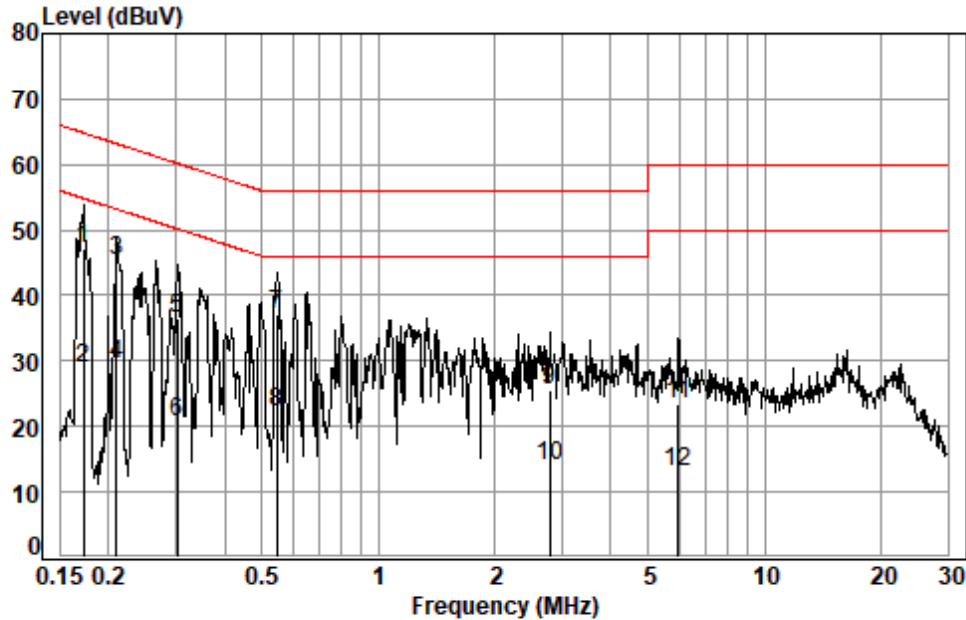
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Test Mode: 04; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 02872AT  
Test mode: 04

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1722	0.02	9.62	37.50	47.14	64.86	-17.72	QP
2	0.1722	0.02	9.62	19.40	29.04	54.86	-25.82	Average
3	0.2106	0.02	9.62	35.59	45.23	63.18	-17.95	QP
4 *	0.2106	0.02	9.62	19.79	29.43	53.18	-23.75	Average
5	0.3019	0.03	9.62	26.99	36.64	60.19	-23.55	QP
6	0.3019	0.03	9.62	10.96	20.61	50.19	-29.58	Average
7	0.5464	0.04	9.62	27.37	37.03	56.00	-18.97	QP
8	0.5464	0.04	9.62	12.52	22.18	46.00	-23.82	Average
9	2.7794	0.07	9.65	15.88	25.60	56.00	-30.40	QP
10	2.7794	0.07	9.65	4.36	14.08	46.00	-31.92	Average
11	5.9925	0.11	9.70	13.57	23.38	60.00	-36.62	QP
12	5.9925	0.11	9.70	3.28	13.09	50.00	-36.91	Average



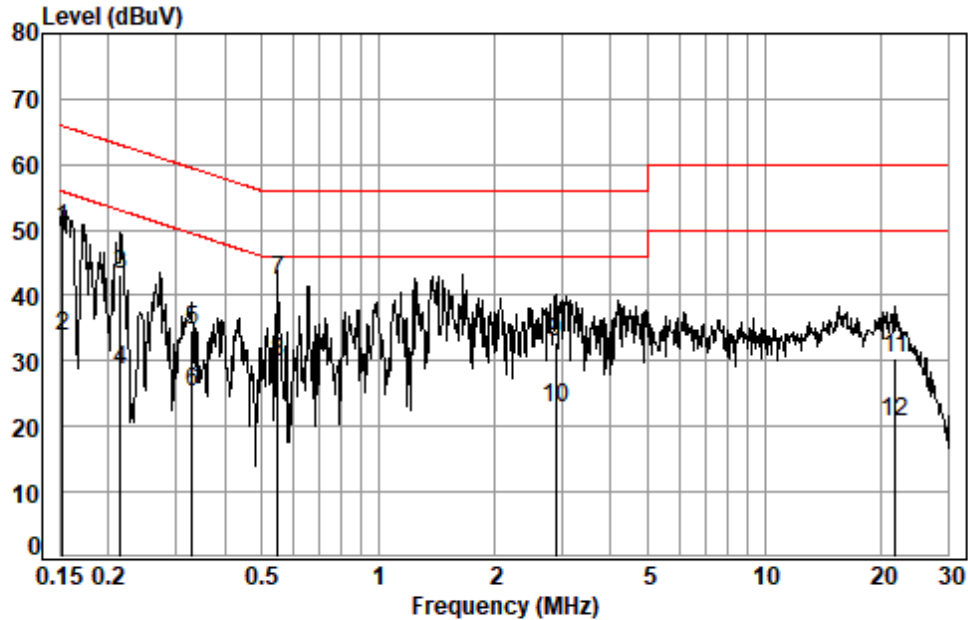
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Test Mode: 05; Line: Live line



Site : Shielding Room  
Condition: Line  
Job No. : 02872AT  
Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.02	9.63	40.60	50.25	65.87	-15.62	QP
2	0.1524	0.02	9.63	24.08	33.73	55.87	-22.14	Average
3	0.2151	0.03	9.62	33.63	43.28	63.01	-19.73	QP
4	0.2151	0.03	9.62	18.90	28.55	53.01	-24.46	Average
5	0.3303	0.03	9.62	25.14	34.79	59.44	-24.65	QP
6	0.3303	0.03	9.62	15.51	25.16	49.44	-24.28	Average
7 *	0.5493	0.04	9.62	32.66	42.32	56.00	-13.68	QP
8 *	0.5493	0.04	9.62	20.26	29.92	46.00	-16.08	Average
9	2.8845	0.07	9.65	23.28	33.00	56.00	-23.00	QP
10	2.8845	0.07	9.65	13.16	22.88	46.00	-23.12	Average
11	21.8303	0.28	9.99	20.03	30.30	60.00	-29.70	QP
12	21.8303	0.28	9.99	10.43	20.70	50.00	-29.30	Average



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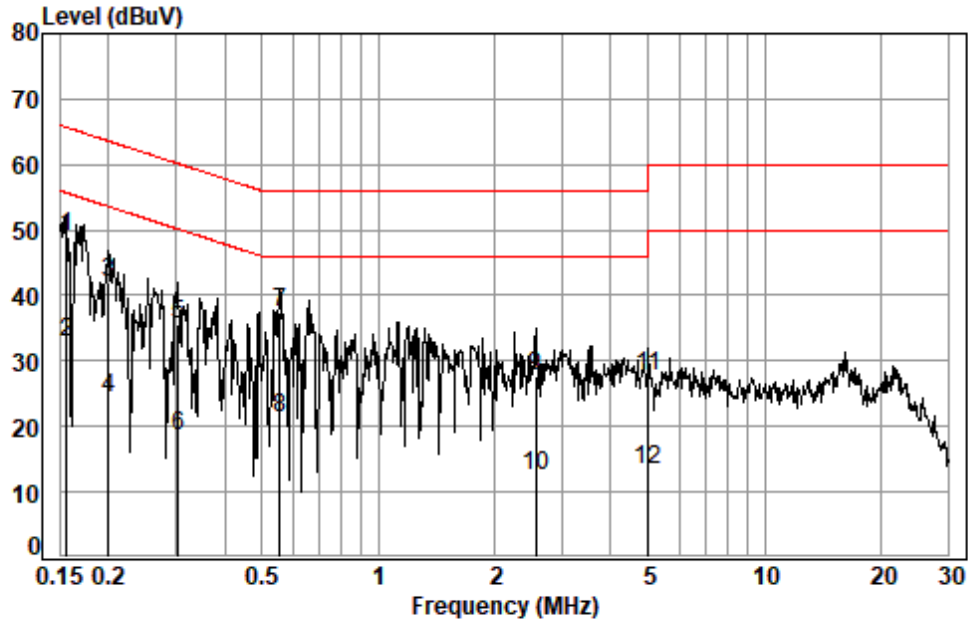
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Test Mode: 05; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 02872AT  
Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1557	0.02	9.62	39.45	49.09	65.69	-16.60	QP
2 *	0.1557	0.02	9.62	23.16	32.80	55.69	-22.89	Average
3	0.2007	0.02	9.62	32.27	41.91	63.58	-21.67	QP
4	0.2007	0.02	9.62	14.82	24.46	53.58	-29.12	Average
5	0.3035	0.03	9.62	25.85	35.50	60.15	-24.65	QP
6	0.3035	0.03	9.62	8.98	18.63	50.15	-31.52	Average
7	0.5552	0.04	9.62	27.74	37.40	56.00	-18.60	QP
8	0.5552	0.04	9.62	11.49	21.15	46.00	-24.85	Average
9	2.5535	0.07	9.64	17.99	27.70	56.00	-28.30	QP
10	2.5535	0.07	9.64	2.73	12.44	46.00	-33.56	Average
11	5.0046	0.09	9.68	17.87	27.64	60.00	-32.36	QP
12	5.0046	0.09	9.68	3.67	13.44	50.00	-36.56	Average





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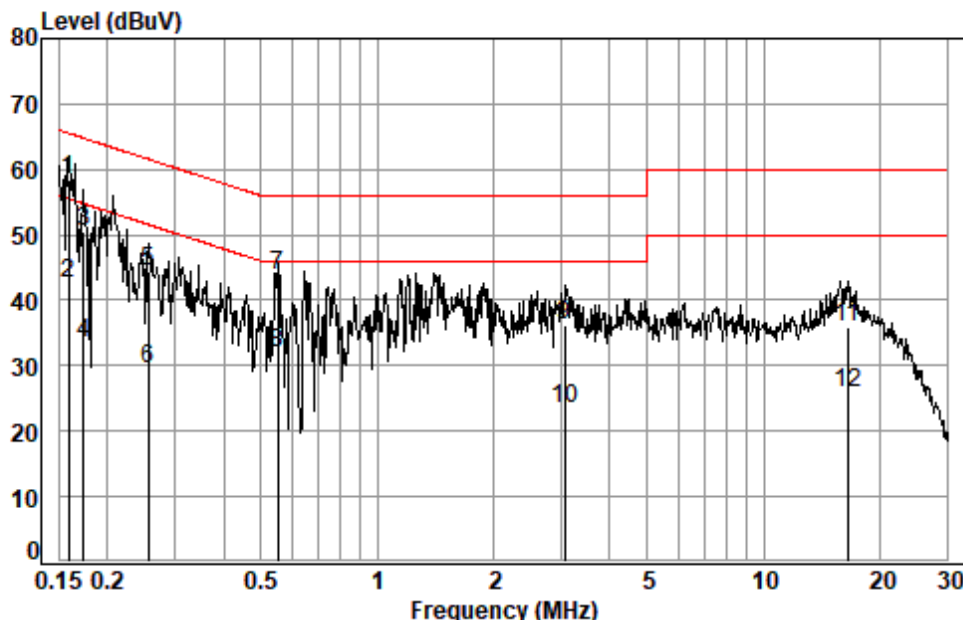
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Report No.: SZCR231200397401

Page: 25 of 64

New data for the report of SZCR231200397401:

Test Mode: 06; Line: Live line



Site : Shielding Room  
Condition: Line  
Job No. : 03974AT  
Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1590	0.02	10.26	48.07	58.35	65.52	-7.17	QP
2 *	0.1590	0.02	10.26	32.42	42.70	55.52	-12.82	Average
3	0.1740	0.02	10.27	40.24	50.53	64.77	-14.24	QP
4	0.1740	0.02	10.27	23.21	33.50	54.77	-21.27	Average
5	0.2548	0.03	10.30	34.06	44.39	61.60	-17.21	QP
6	0.2548	0.03	10.30	19.30	29.63	51.60	-21.97	Average
7	0.5523	0.04	10.34	33.53	43.91	56.00	-12.09	QP
8	0.5523	0.04	10.34	21.53	31.91	46.00	-14.09	Average
9	3.0576	0.08	10.64	25.56	36.28	56.00	-19.72	QP
10	3.0576	0.08	10.64	12.84	23.56	46.00	-22.44	Average
11	16.4856	0.24	10.75	24.84	35.83	60.00	-24.17	QP
12	16.4856	0.24	10.75	14.81	25.80	50.00	-24.20	Average



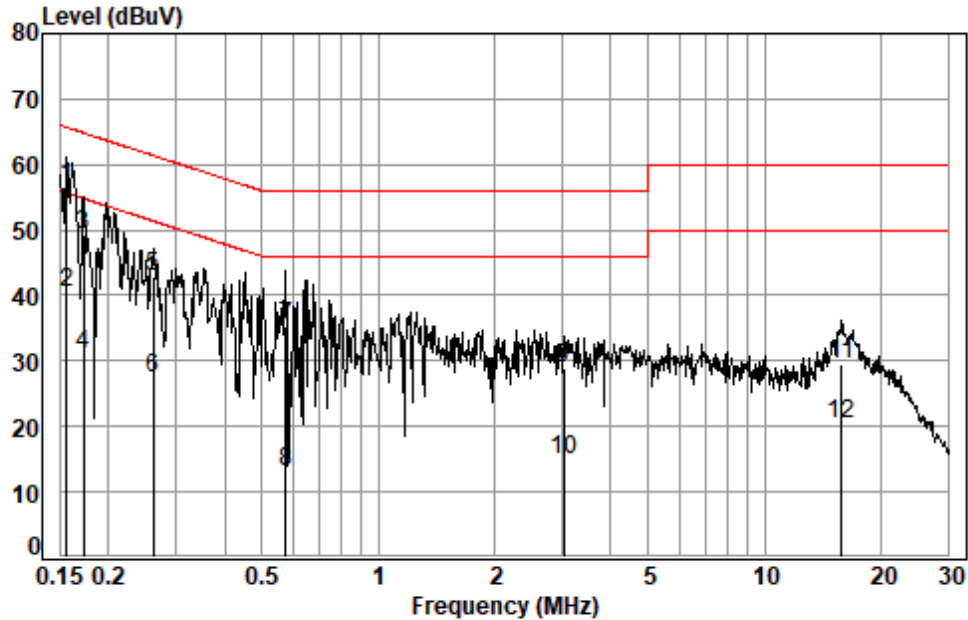
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Test Mode: 06; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 03974AT  
Test mode: 06

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1557	0.02	10.24	46.32	56.58	65.69	-9.11	QP
2 *	0.1557	0.02	10.24	30.19	40.45	55.69	-15.24	Average
3	0.1722	0.02	10.24	38.90	49.16	64.86	-15.70	QP
4	0.1722	0.02	10.24	20.72	30.98	54.86	-23.88	Average
5	0.2616	0.03	10.26	32.67	42.96	61.38	-18.42	QP
6	0.2616	0.03	10.26	17.22	27.51	51.38	-23.87	Average
7	0.5762	0.04	10.31	24.85	35.20	56.00	-20.80	QP
8	0.5762	0.04	10.31	2.69	13.04	46.00	-32.96	Average
9	3.0253	0.08	10.64	18.23	28.95	56.00	-27.05	QP
10	3.0253	0.08	10.64	4.33	15.05	46.00	-30.95	Average
11	15.8014	0.24	10.74	18.43	29.41	60.00	-30.59	QP
12	15.8014	0.24	10.74	9.39	20.37	50.00	-29.63	Average



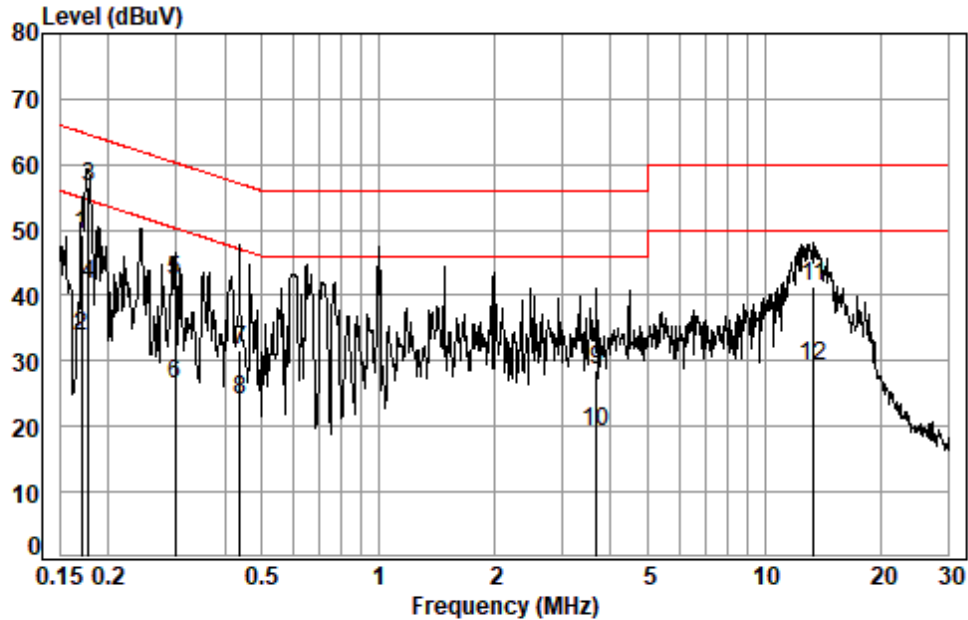
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Test Mode: 08; Line: Live line



Site : Shielding Room  
Condition: Line  
Job No. : 03974AT  
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1703	0.02	10.27	38.94	49.23	64.94	-15.71	QP
2	0.1703	0.02	10.27	23.62	33.91	54.94	-21.03	Average
3 *	0.1777	0.02	10.27	46.23	56.52	64.59	-8.07	QP
4 *	0.1777	0.02	10.27	31.45	41.74	54.59	-12.85	Average
5	0.2987	0.03	10.31	32.09	42.43	60.28	-17.85	QP
6	0.2987	0.03	10.31	16.04	26.38	50.28	-23.90	Average
7	0.4374	0.03	10.34	21.22	31.59	57.11	-25.52	QP
8	0.4374	0.03	10.34	13.68	24.05	47.11	-23.06	Average
9	3.6806	0.08	10.67	17.85	28.60	56.00	-27.40	QP
10	3.6806	0.08	10.67	8.32	19.07	46.00	-26.93	Average
11	13.4080	0.21	10.82	30.26	41.29	60.00	-18.71	QP
12	13.4080	0.21	10.82	18.07	29.10	50.00	-20.90	Average



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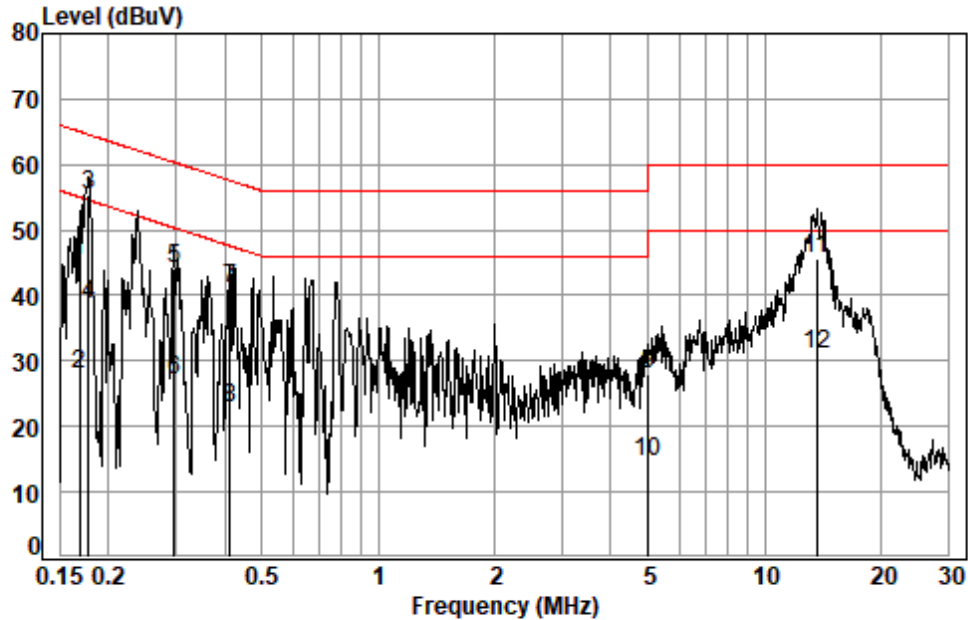
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 08; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 03974AT  
Test mode: 08

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1685	0.02	10.24	35.03	45.29	65.03	-19.74	QP
2	0.1685	0.02	10.24	17.74	28.00	55.03	-27.03	Average
3 *	0.1777	0.02	10.25	45.01	55.28	64.59	-9.31	QP
4 *	0.1777	0.02	10.25	28.36	38.63	54.59	-15.96	Average
5	0.2955	0.03	10.27	33.94	44.24	60.37	-16.13	QP
6	0.2955	0.03	10.27	16.83	27.13	50.37	-23.24	Average
7	0.4127	0.03	10.28	30.68	40.99	57.59	-16.60	QP
8	0.4127	0.03	10.28	12.47	22.78	47.59	-24.81	Average
9	5.0046	0.09	10.72	17.32	28.13	60.00	-31.87	QP
10	5.0046	0.09	10.72	3.76	14.57	50.00	-35.43	Average
11	13.6228	0.21	10.81	34.55	45.57	60.00	-14.43	QP
12	13.6228	0.21	10.81	19.98	31.00	50.00	-19.00	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: 10m

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: 51.5 % RH

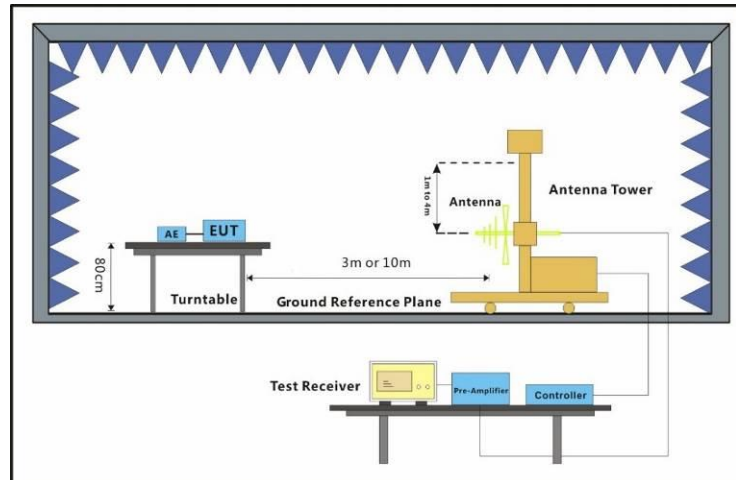
Atmospheric Pressure: 1000 mbar

### 6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Transfer data between the EUT1 and the PC+USB Cable1
Final test	01	Transfer data between the EUT2 and the PC+USB Cable2
Final test	02	Transfer data between the EUT3 and the PC+USB Cable1
Final test	03	BT+WLAN2.4G+EUT1+Playing MP4+USB Cable1+adapter1
Final test	04	BT+WLAN5G+EUT2+camera(Front)+USB Cable1+adapter2
Final test	05	BT+WLAN2.4G+EUT3+camera(Back)+USB Cable1+adapter2
Final test	07	BT+WLAN5G+EUT2+camera(Front)+USB Cable1+adapter2
Final test	08	BT+WLAN5G+EUT2+camera(Front)+USB Cable1+adapter2+Keyboard



### 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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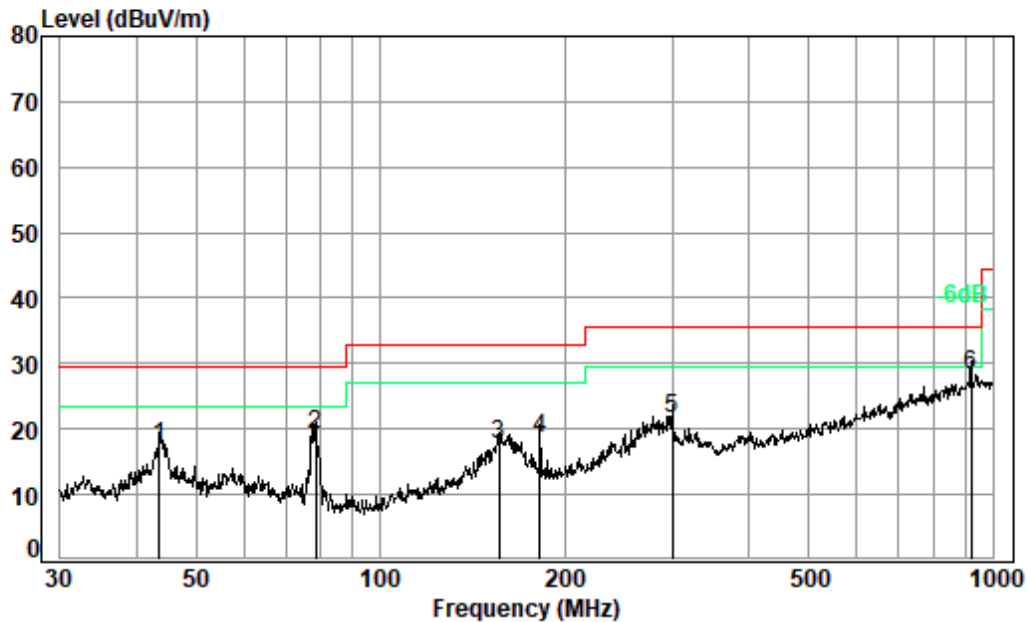
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Report No.: SZCR231200397401

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Test data for original report of SZCR230900287201:

Test Mode: 00; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 02872AT

Test Mode: 00

	Read Freq	Ant Level	Cable Factor	Preamp Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	43.659	32.21	17.27	0.47	32.50	17.45	29.50	-12.05 QP
2	78.413	37.42	13.53	0.63	32.44	19.14	29.50	-10.36 QP
3	156.458	31.37	17.74	0.95	32.40	17.66	33.00	-15.34 QP
4	181.920	34.24	15.77	1.05	32.40	18.66	33.00	-14.34 QP
5	299.316	34.97	17.61	1.41	32.30	21.69	35.60	-13.91 QP
6 pp	922.516	29.21	27.96	2.59	31.35	28.41	35.60	-7.19 QP



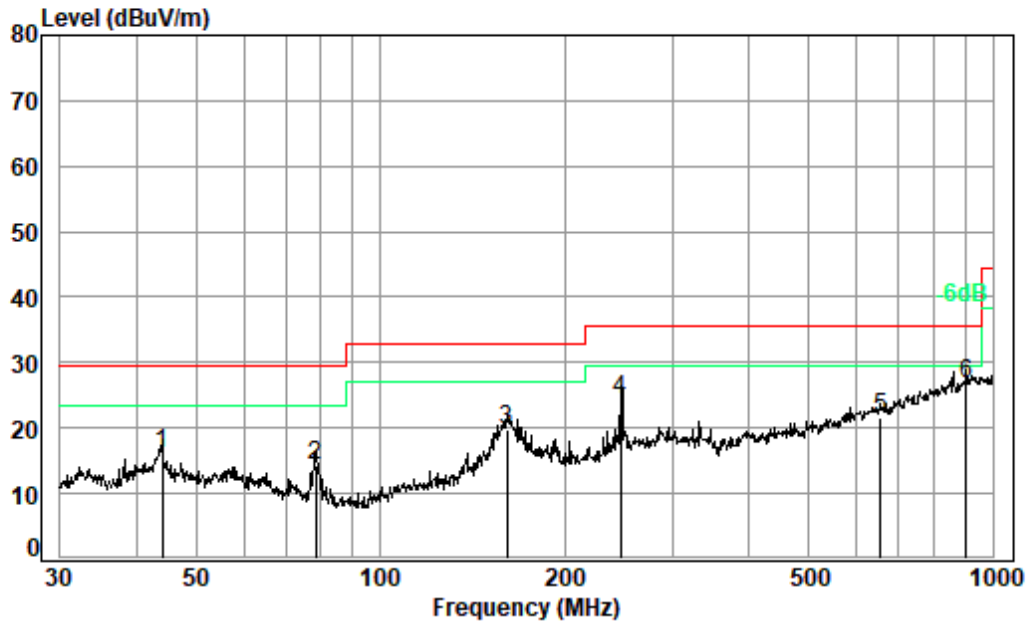
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Test Mode: 00; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 02872AT

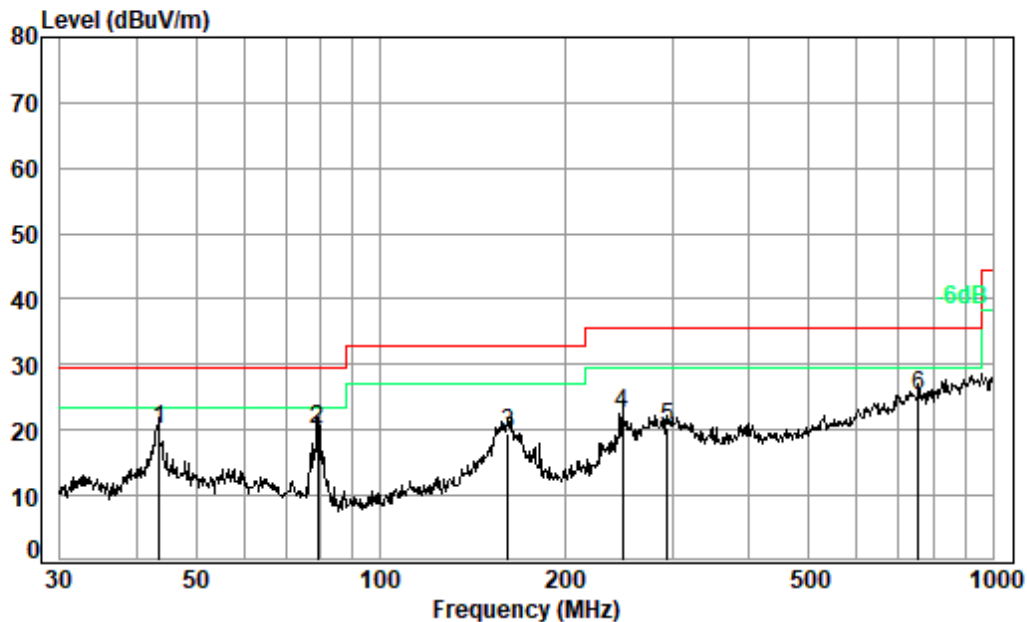
Test Mode: 00

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	44.120	30.99	17.28	0.47	32.50	16.24	29.50	-13.26	QP
2	78.413	32.70	13.53	0.63	32.44	14.42	29.50	-15.08	QP
3	160.909	33.83	17.39	0.96	32.40	19.78	33.00	-13.22	QP
4	246.815	39.35	16.05	1.26	32.35	24.31	35.60	-11.29	QP
5	656.530	27.15	24.67	2.17	32.34	21.65	35.60	-13.95	QP
6 pp	903.309	28.08	27.61	2.57	31.39	26.87	35.60	-8.73	QP





Test Mode: 01; Polarity: Horizontal



Condition: 10m HORIZONTAL

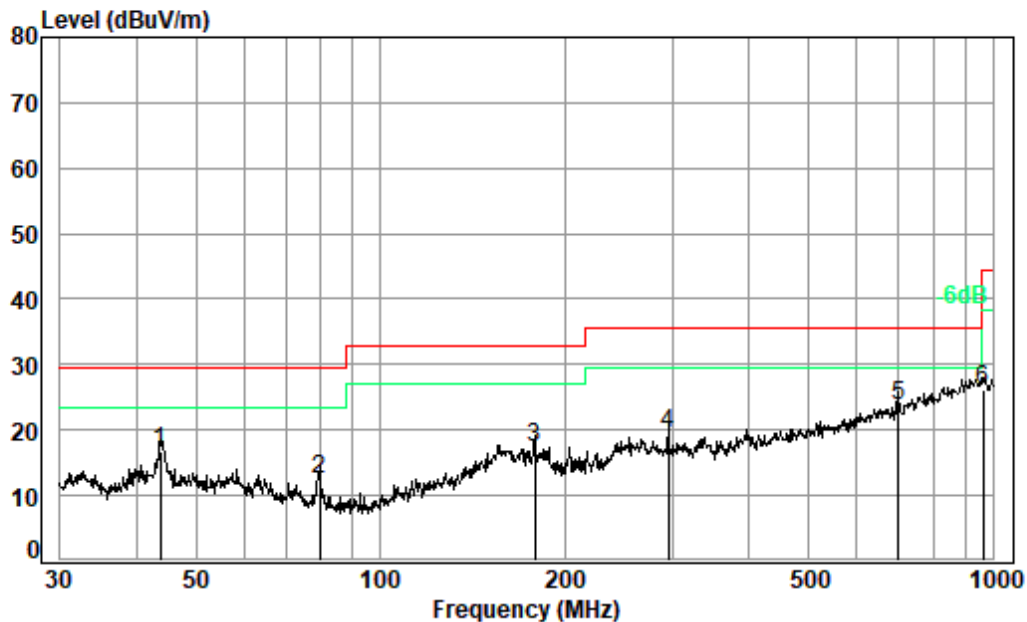
Job No. : 02872AT

Test Mode: 01

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	43.506	34.78	17.27	0.47	32.50	20.02	29.50	-9.48	QP
2 pp	78.965	38.45	13.44	0.64	32.44	20.09	29.50	-9.41	QP
3	161.474	33.64	17.35	0.97	32.40	19.56	33.00	-13.44	QP
4	248.552	37.60	16.10	1.26	32.35	22.61	35.60	-12.99	QP
5	294.114	33.66	17.57	1.39	32.31	20.31	35.60	-15.29	QP
6	755.387	28.98	25.89	2.36	32.13	25.10	35.60	-10.50	QP



Test Mode: 01; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 02872AT

Test Mode: 01

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	43.812	31.45	17.27	0.47	32.50	16.69	29.50	-12.81	QP
2	79.521	30.91	13.35	0.64	32.44	12.46	29.50	-17.04	QP
3	178.758	32.64	15.95	1.04	32.40	17.23	33.00	-15.77	QP
4	295.147	32.64	17.58	1.40	32.30	19.32	35.60	-16.28	QP
5 pp	701.761	28.81	25.08	2.23	32.29	23.83	35.60	-11.77	QP
6	965.542	26.36	28.28	2.64	31.27	26.01	44.40	-18.39	QP



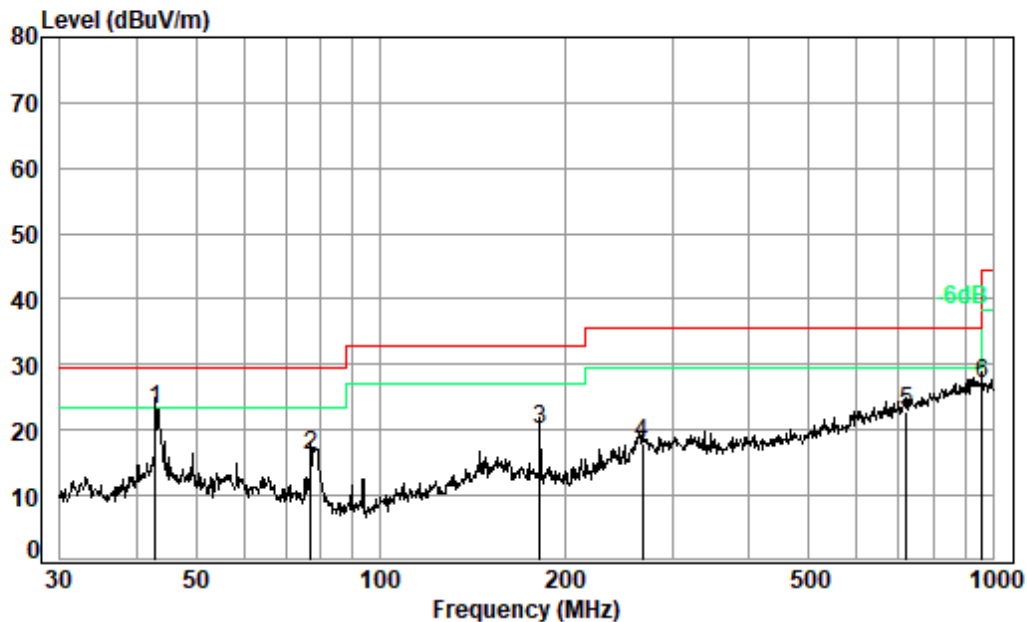
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Test Mode: 02; Polarity: Horizontal



Condition: 10m HORIZONTAL

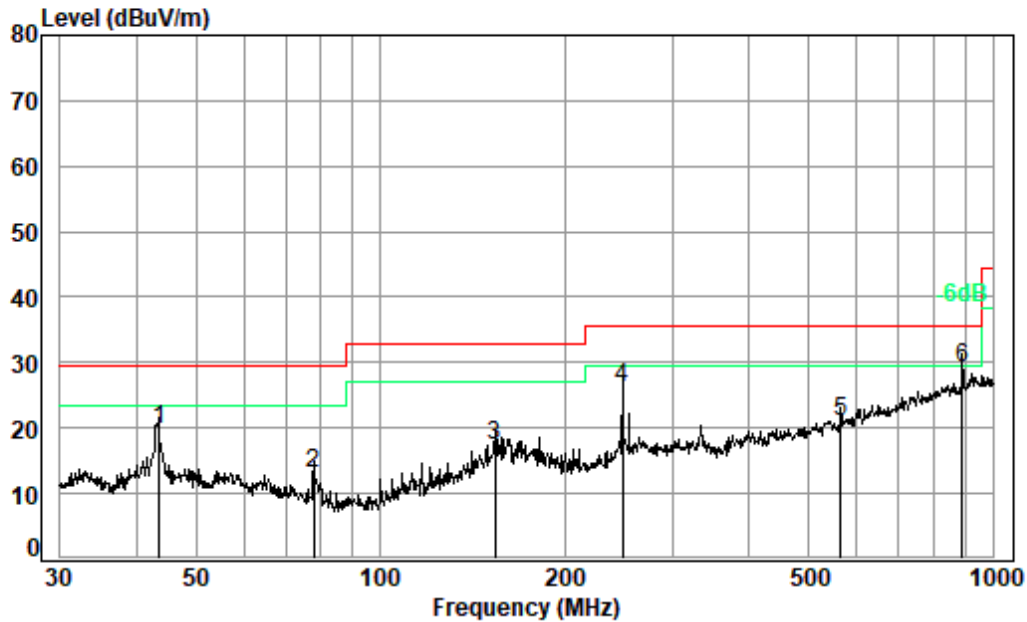
Job No. : 02872AT

Test Mode: 02

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	pp	42.900	37.86	17.25	0.47	32.50	23.08	29.50	-6.42 QP
2		77.051	34.11	13.77	0.63	32.45	16.06	29.50	-13.44 QP
3		181.920	35.57	15.77	1.05	32.40	19.99	33.00	-13.01 QP
4		267.546	32.15	16.79	1.32	32.33	17.93	35.60	-17.67 QP
5		721.726	27.44	25.44	2.28	32.23	22.93	35.60	-12.67 QP
6		958.794	27.26	28.34	2.63	31.28	26.95	35.60	-8.65 QP



Test Mode: 02; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 02872AT

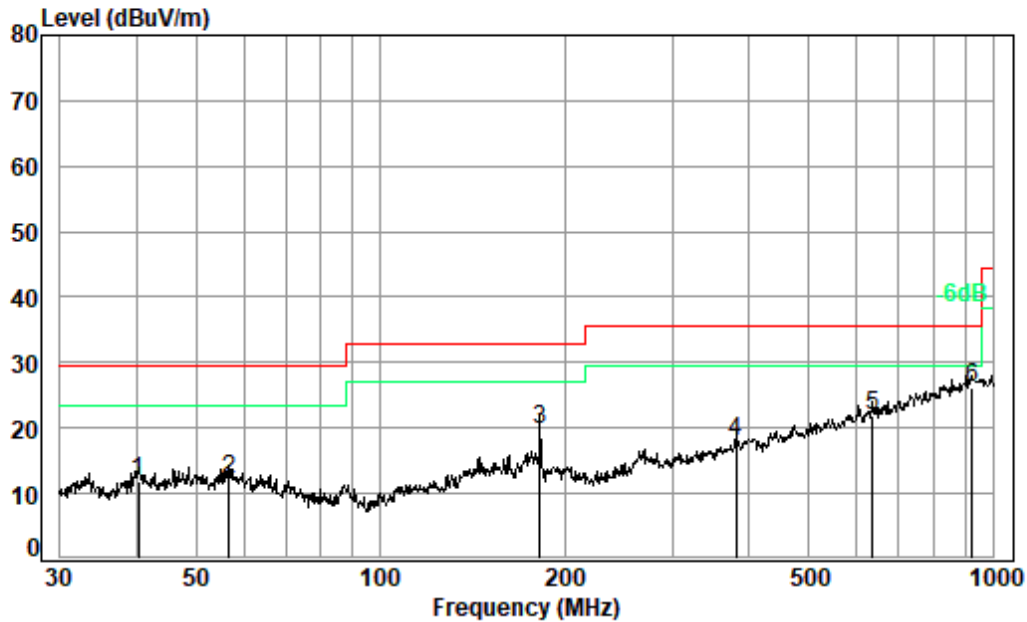
Test Mode: 02

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	43.506	34.45	17.27	0.47	32.50	19.69	29.50	-9.81	QP
2	77.865	31.13	13.62	0.63	32.44	12.94	29.50	-16.56	QP
3	153.739	31.03	17.84	0.93	32.40	17.40	33.00	-15.60	QP
4	248.552	41.06	16.10	1.26	32.35	26.07	35.60	-9.53	QP
5	564.639	28.74	22.75	1.99	32.36	21.12	35.60	-14.48	QP
6 pp	890.728	30.61	27.46	2.56	31.46	29.17	35.60	-6.43	QP





Test Mode: 03; Polarity: Horizontal



Condition: 10m HORIZONTAL

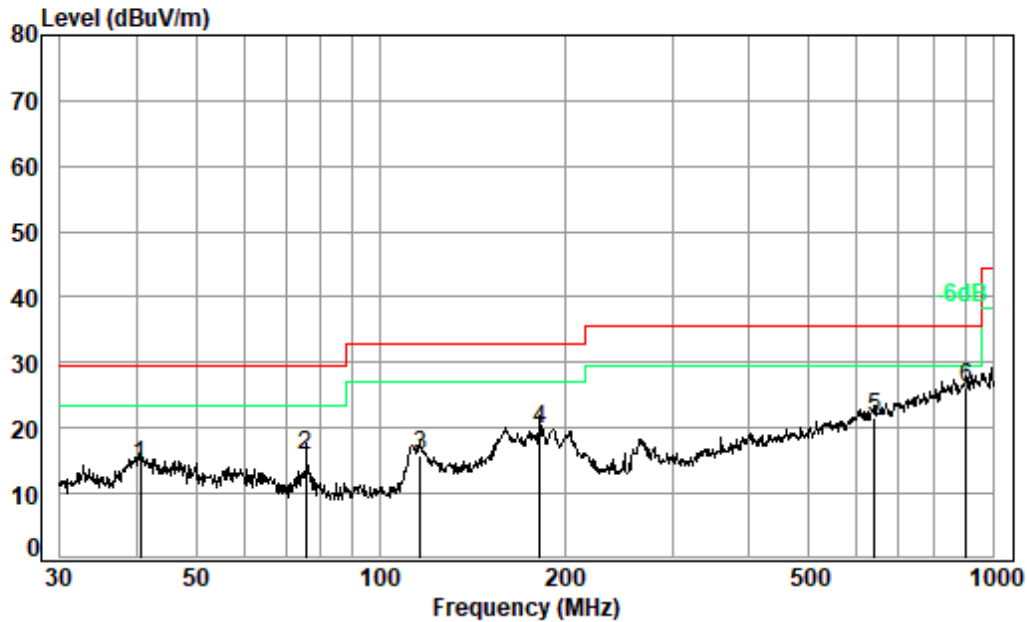
Job No. : 02872AT

Test Mode: 03

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	40.276	26.84	17.11	0.45	32.50	11.90	29.50	-17.60	QP
2	56.593	26.88	17.30	0.54	32.49	12.23	29.50	-17.27	QP
3	181.920	35.48	15.77	1.05	32.40	19.90	33.00	-13.10	QP
4	381.249	28.94	19.59	1.59	32.30	17.82	35.60	-17.78	QP
5	636.134	27.73	24.46	2.14	32.36	21.97	35.60	-13.63	QP
6 pp	925.756	26.76	28.04	2.60	31.35	26.05	35.60	-9.55	QP



Test Mode: 03; Polarity: Vertical



Condition: 10m VERTICAL

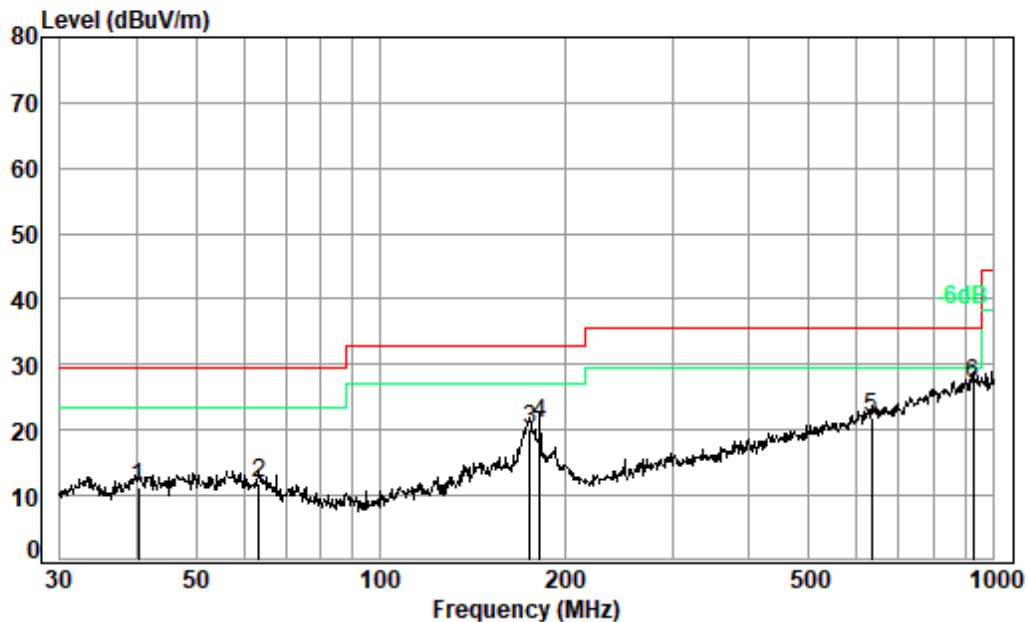
Job No. : 02872AT

Test Mode: 03

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	40.559	29.29	17.13	0.45	32.50	14.37	29.50	-15.13	QP
2	75.711	33.49	14.03	0.62	32.45	15.69	29.50	-13.81	QP
3	116.132	32.91	14.56	0.78	32.40	15.85	33.00	-17.15	QP
4	181.920	35.39	15.77	1.05	32.40	19.81	33.00	-13.19	QP
5	640.611	27.26	24.49	2.15	32.36	21.54	35.60	-14.06	QP
6 pp	903.309	27.22	27.61	2.57	31.39	26.01	35.60	-9.59	QP



Test Mode: 04; Polarity: Horizontal



Condition: 10m HORIZONTAL

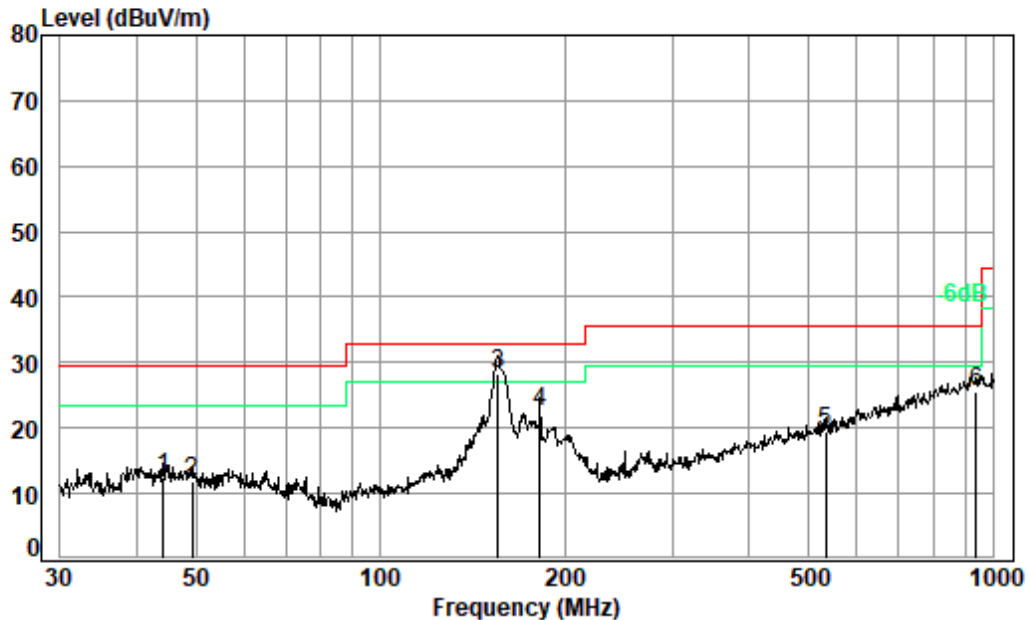
Job No. : 02872AT

Test Mode: 04

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	40.276	26.23	17.11	0.45	32.50	11.29	29.50	-18.21	QP
2	63.313	27.15	16.50	0.57	32.47	11.75	29.50	-17.75	QP
3	175.652	35.30	16.14	1.02	32.40	20.06	33.00	-12.94	QP
4	181.920	36.57	15.77	1.05	32.40	20.99	33.00	-12.01	QP
5	633.907	27.65	24.46	2.14	32.37	21.88	35.60	-13.72	QP
6 pp	929.008	27.57	28.10	2.60	31.34	26.93	35.60	-8.67	QP



Test Mode: 04; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 02872AT

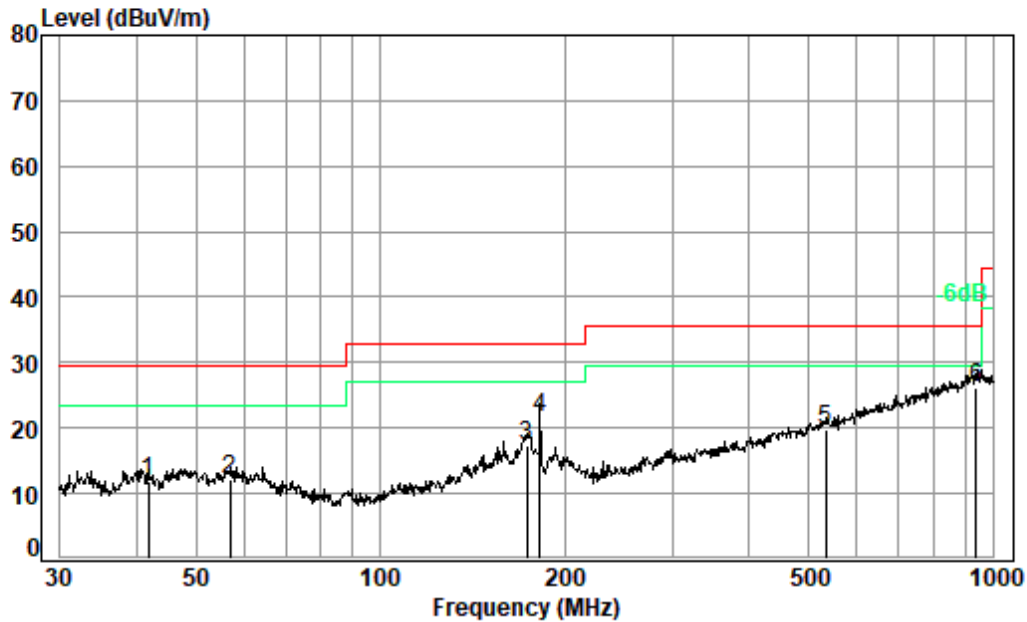
Test Mode: 04

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	44.275	27.23	17.28	0.48	32.50	12.49	29.50	-17.01	QP
2	49.359	26.64	17.19	0.51	32.50	11.84	29.50	-17.66	QP
3 pp	155.910	42.04	17.78	0.94	32.40	28.36	33.00	-4.64	QP
4	181.920	38.17	15.77	1.05	32.40	22.59	33.00	-10.41	QP
5	533.832	27.33	22.56	1.91	32.33	19.47	35.60	-16.13	QP
6	938.833	26.00	28.35	2.61	31.32	25.64	35.60	-9.96	QP





Test Mode: 05; Polarity: Horizontal



Condition: 10m HORIZONTAL

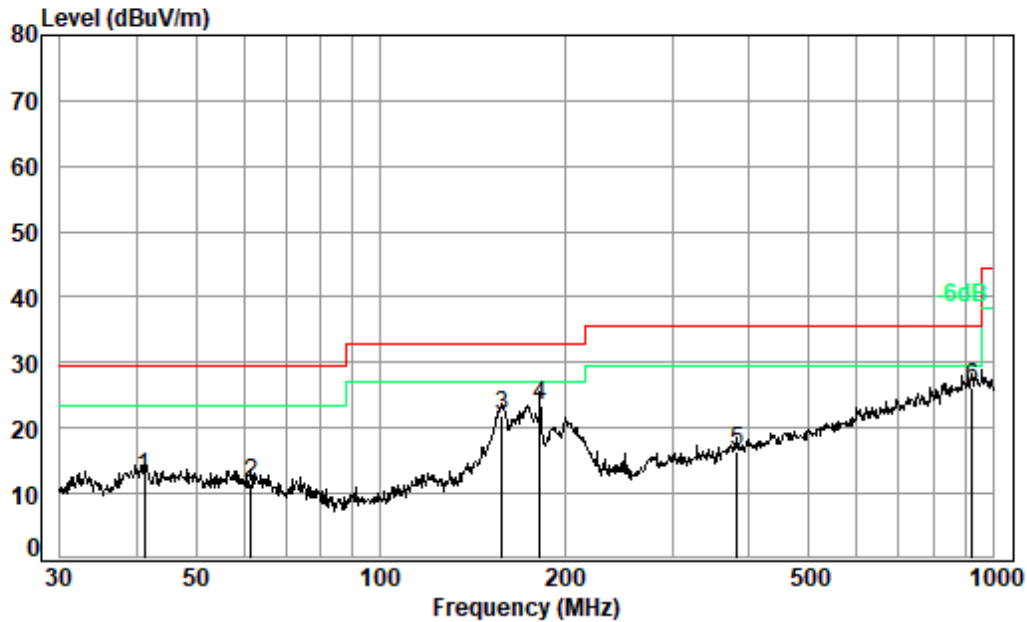
Job No. : 02872AT

Test Mode: 05

	Freq	Read Level	Ant Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	41.860	26.62	17.21	0.46	32.50	11.79	29.50	-17.71	QP
2	56.792	26.69	17.29	0.54	32.49	12.03	29.50	-17.47	QP
3	173.814	32.44	16.23	1.02	32.40	17.29	33.00	-15.71	QP
4	181.920	37.24	15.77	1.05	32.40	21.66	33.00	-11.34	QP
5	533.832	27.50	22.56	1.91	32.33	19.64	35.60	-15.96	QP
6 pp	938.833	26.57	28.35	2.61	31.32	26.21	35.60	-9.39	QP



Test Mode: 05; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 02872AT

Test Mode: 05

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	41.277	27.37	17.17	0.46	32.50	12.50	29.50	-17.00	QP
2	61.562	26.64	16.85	0.56	32.48	11.57	29.50	-17.93	QP
3	158.112	35.69	17.60	0.95	32.40	21.84	33.00	-11.16	QP
4	181.920	39.06	15.77	1.05	32.40	23.48	33.00	-9.52	QP
5	382.588	27.61	19.63	1.59	32.30	16.53	35.60	-19.07	QP
6 pp	925.756	26.99	28.04	2.60	31.35	26.28	35.60	-9.32	QP



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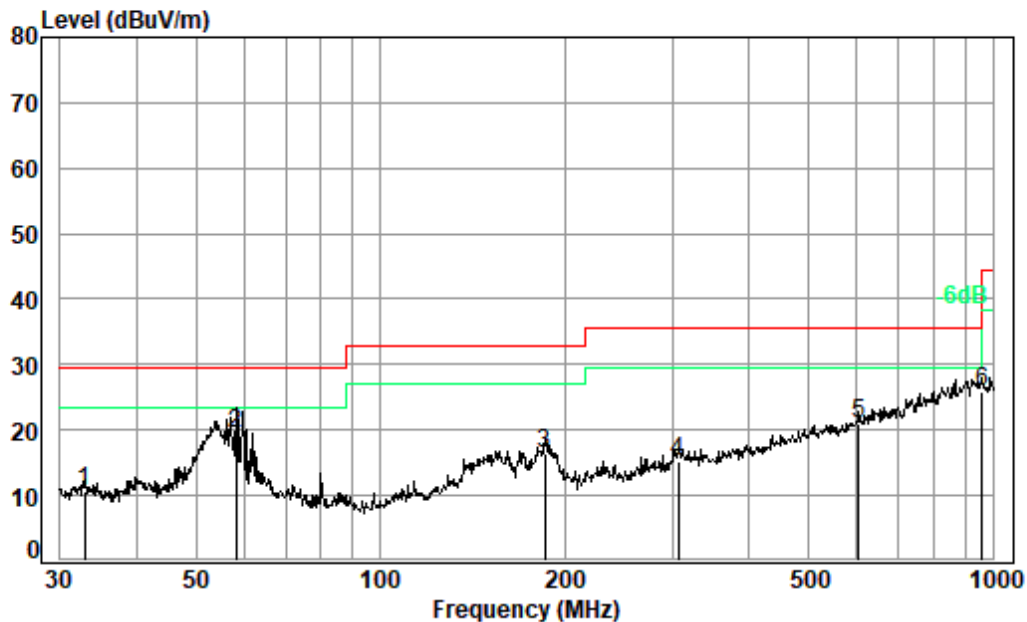
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

Page: 43 of 64

New data for the report of SZCR231200397401:

Test Mode: 07; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 03974AT

Test Mode: 07

	Read Freq	Ant Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	32.864	26.42	16.28	0.41	32.50	10.61	29.50	-18.89	QP
2 pp	58.203	34.07	17.24	0.54	32.48	19.37	29.50	-10.13	QP
3	185.788	32.37	15.52	1.06	32.40	16.55	33.00	-16.45	QP
4	306.754	28.40	17.83	1.42	32.30	15.35	35.60	-20.25	QP
5	603.539	27.15	24.00	2.09	32.40	20.84	35.60	-14.76	QP
6	962.162	26.25	28.30	2.64	31.28	25.91	44.40	-18.49	QP



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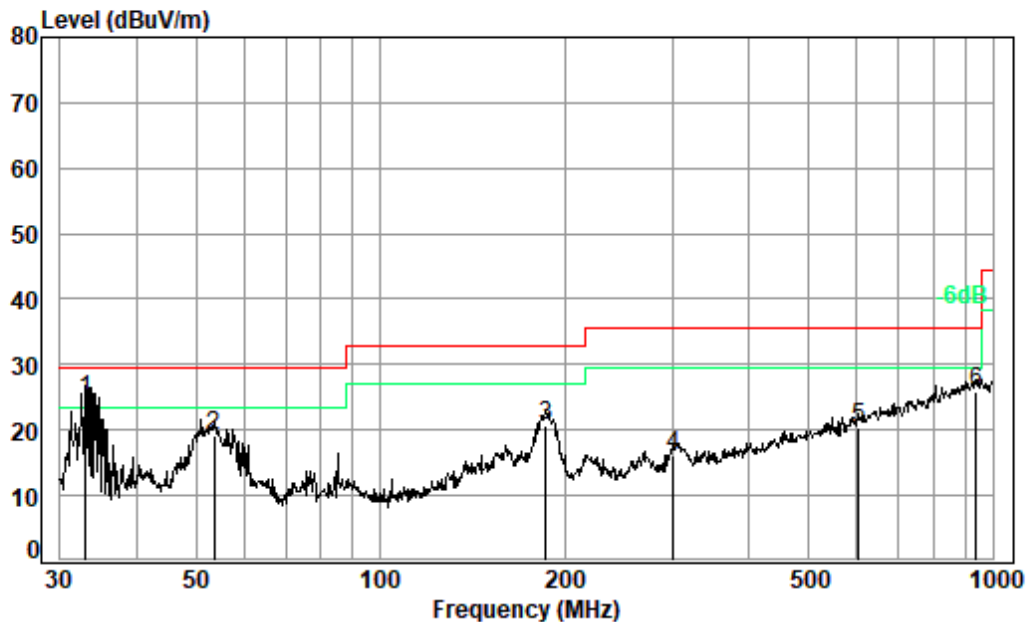
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

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Test Mode: 07; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 03974AT

Test Mode: 07

		Read	Ant	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	pp	32.979	40.50	16.28	0.41	32.50	24.69	29.50	-4.81 QP
2		53.505	33.90	17.25	0.52	32.49	19.18	29.50	-10.32 QP
3		186.441	36.53	15.48	1.07	32.40	20.68	33.00	-12.32 QP
4		301.422	29.24	17.67	1.41	32.30	16.02	35.60	-19.58 QP
5		603.539	26.73	24.00	2.09	32.40	20.42	35.60	-15.18 QP
6		938.833	26.09	28.35	2.61	31.32	25.73	35.60	-9.87 QP



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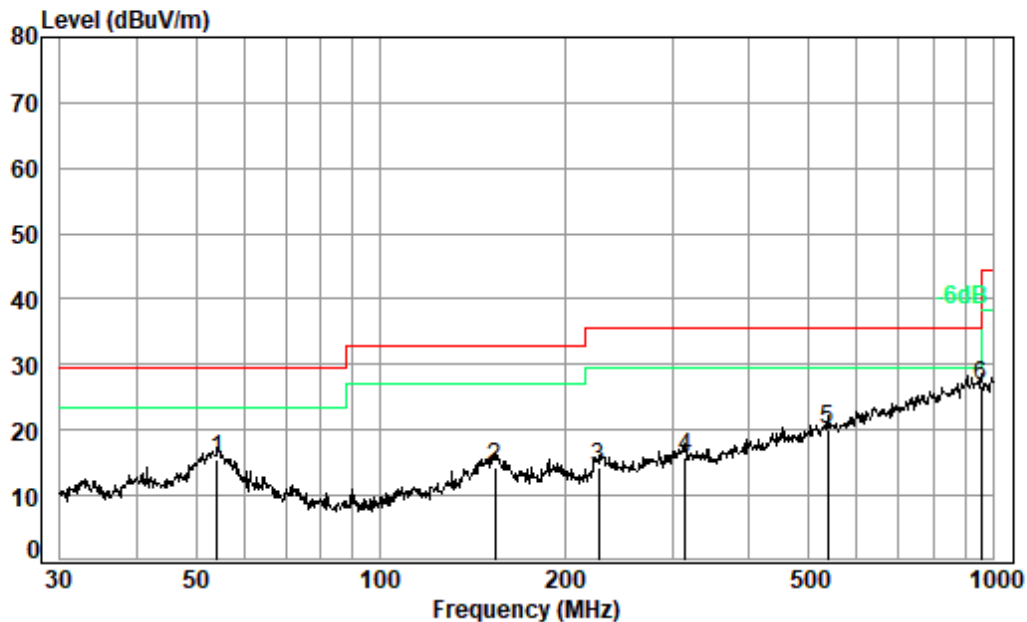
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Test Mode: 08; Polarity: Horizontal



Condition: 10m HORIZONTAL

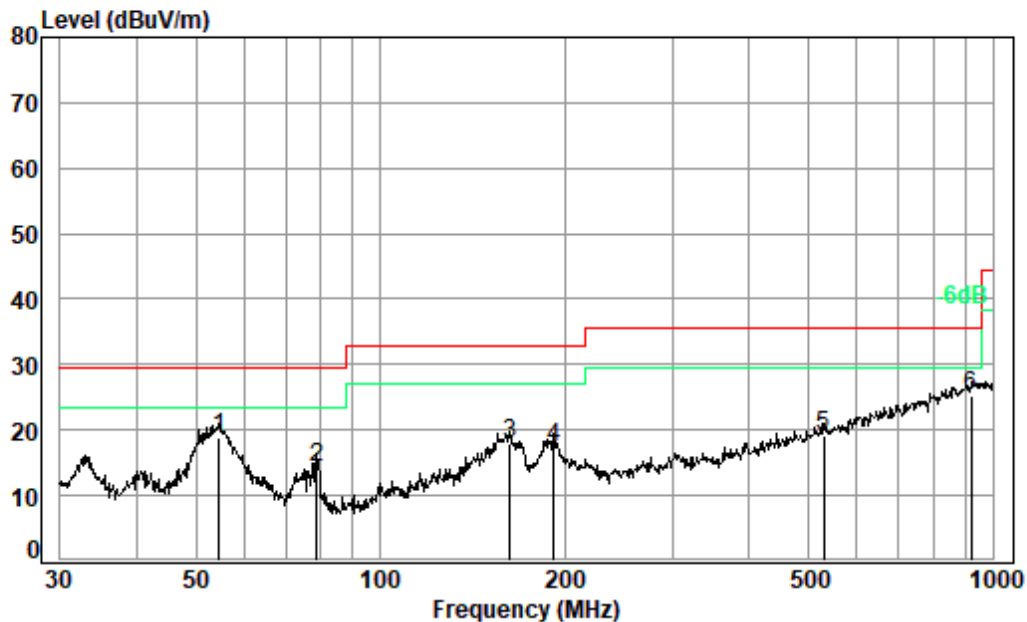
Job No. : 03974AT

Test Mode: 08

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	54.071	30.14	17.27	0.53	32.49	15.45	29.50	-14.05	QP
2	153.739	28.01	17.84	0.93	32.40	14.38	33.00	-18.62	QP
3	226.894	29.84	15.51	1.20	32.37	14.18	35.60	-21.42	QP
4	314.377	28.69	18.03	1.44	32.30	15.86	35.60	-19.74	QP
5	537.589	27.91	22.64	1.92	32.34	20.13	35.60	-15.47	QP
6 pp	955.438	26.95	28.42	2.63	31.29	26.71	35.60	-8.89	QP



Test Mode: 08; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 03974AT

Test Mode: 08

	Freq	Read Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	54.643	33.54	17.28	0.53	32.49	18.86	29.50	-10.64	QP
2	78.689	32.65	13.49	0.63	32.44	14.33	29.50	-15.17	QP
3	162.611	31.97	17.26	0.97	32.40	17.80	33.00	-15.20	QP
4	191.745	33.53	15.26	1.09	32.40	17.48	33.00	-15.52	QP
5	530.101	27.06	22.49	1.90	32.33	19.12	35.60	-16.48	QP
6 pp	922.516	26.02	27.96	2.59	31.35	25.22	35.60	-10.38	QP



### 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: 22.1 °C

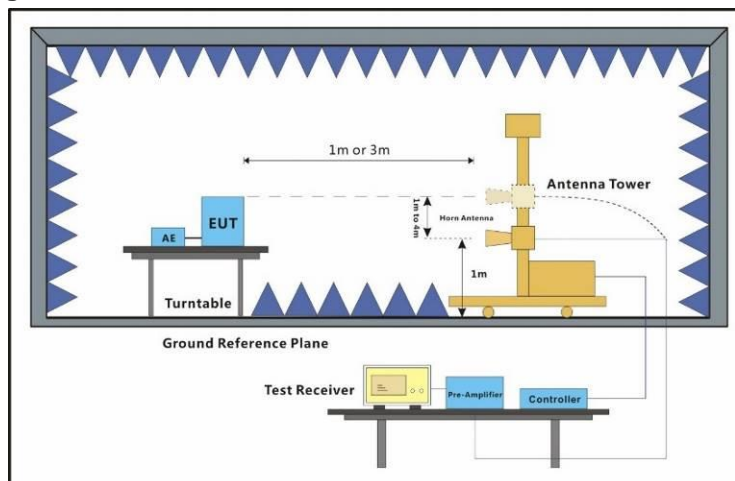
Humidity: 67.6 % RH

Atmospheric Pressure: 1000 mbar

#### 6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Transfer data between the EUT1 and the PC+USB Cable1
Final test	01	Transfer data between the EUT2 and the PC+USB Cable2
Final test	02	Transfer data between the EUT3 and the PC+USB Cable1
Final test	03	BT+WLAN2.4G+EUT1+Playing MP4+USB Cable1+adapter1
Final test	04	BT+WLAN5G+EUT2+camera(Front)+USB Cable1+adapter2
Final test	05	BT+WLAN2.4G+EUT3+camera(Back)+USB Cable1+adapter2
Final test	07	BT+WLAN5G+EUT2+camera(Front)+USB Cable1+adapter2
Final test	08	BT+WLAN5G+EUT2+camera(Front)+USB Cable1+adapter2+Keyboard

#### 6.3.3 Test Setup Diagram



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## 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





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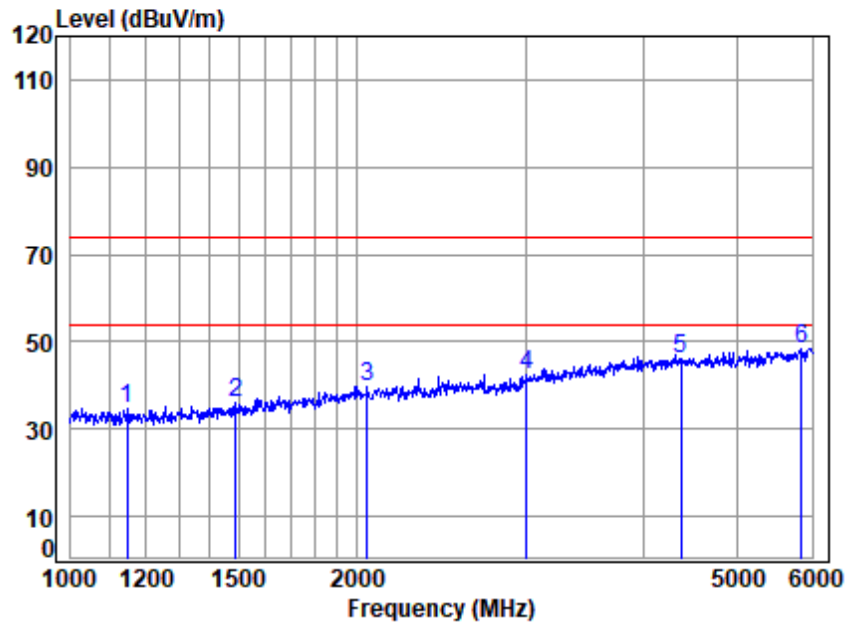
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

Page: 49 of 64

Test data for original report of SZCR230900287201:

Test Mode: 00; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02872AT  
Mode : 00

	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	1145.881	3.48	24.18	37.89	45.02	34.79	74.00	-39.21	peak
2	1491.172	4.05	25.37	36.90	43.70	36.22	74.00	-37.78	peak
3	2047.672	4.73	28.39	35.77	42.33	39.68	74.00	-34.32	peak
4	3009.976	5.59	30.90	35.44	41.51	42.56	74.00	-31.44	peak
5	4369.367	7.04	33.56	34.59	40.14	46.15	74.00	-27.85	peak
6 q	5851.364	8.07	34.70	35.03	40.73	48.47	74.00	-25.53	peak



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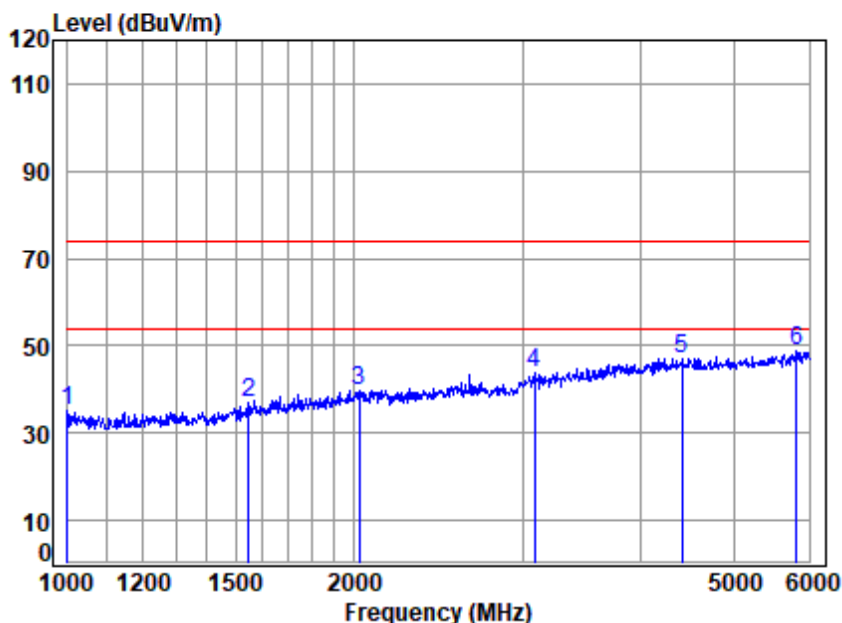
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

Page: 50 of 64

Test Mode: 00; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 02872AT  
Mode : 00

	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	1000.000	3.19	25.00	38.40	45.28	35.07	74.00	-38.93	peak
2	1548.349	4.13	25.88	36.75	43.50	36.76	74.00	-37.24	peak
3	2022.150	4.70	28.23	35.78	42.42	39.57	74.00	-34.43	peak
4	3091.970	5.71	31.38	35.33	41.94	43.70	74.00	-30.30	peak
5	4416.593	7.07	33.50	34.62	40.85	46.80	74.00	-27.20	peak
6 q	5819.996	8.05	34.64	35.03	41.00	48.66	74.00	-25.34	peak



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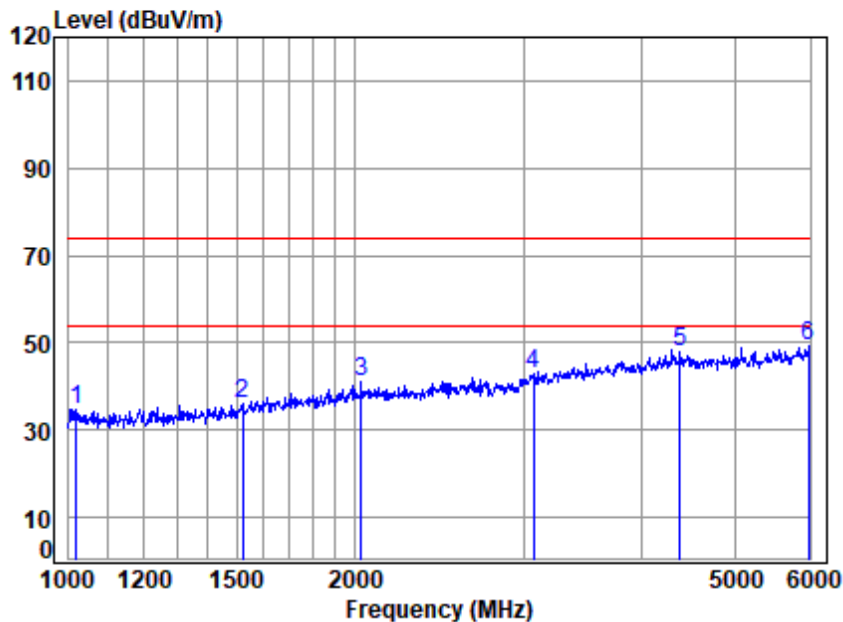
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

Page: 51 of 64

Test Mode: 01; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02872AT  
Mode : 01

	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	1018.079	3.23	24.78	38.33	45.20	34.88	74.00	-39.12	peak
2	1523.581	4.10	25.64	36.81	43.02	35.95	74.00	-38.05	peak
3	2029.410	4.71	28.28	35.78	43.81	41.02	74.00	-32.98	peak
4	3075.395	5.68	31.35	35.35	41.02	42.70	74.00	-31.30	peak
5	4385.052	7.05	33.53	34.60	41.71	47.69	74.00	-26.31	peak
6 q	5978.538	8.16	34.96	35.04	41.26	49.34	74.00	-24.66	peak



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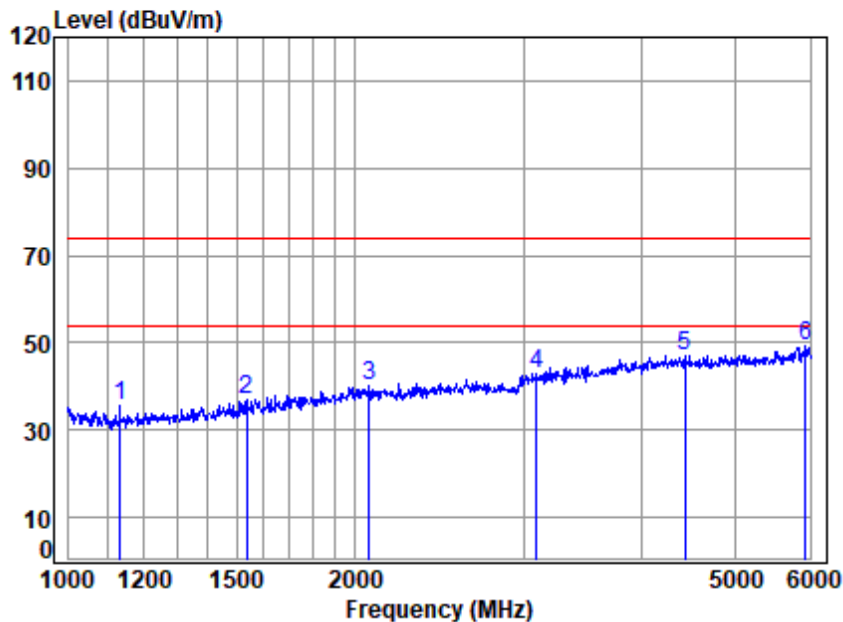
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

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Test Mode: 01; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 02872AT  
Mode : 01

	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	1131.599	3.46	24.13	37.93	46.04	35.70	74.00	-38.30	peak
2	1537.292	4.11	25.77	36.78	43.85	36.95	74.00	-37.05	peak
3	2066.100	4.75	28.43	35.76	42.78	40.20	74.00	-33.80	peak
4	3097.515	5.71	31.40	35.33	41.31	43.09	74.00	-30.91	peak
5	4432.448	7.08	33.50	34.63	41.19	47.14	74.00	-26.86	peak
6 q	5935.842	8.13	34.87	35.04	41.11	49.07	74.00	-24.93	peak



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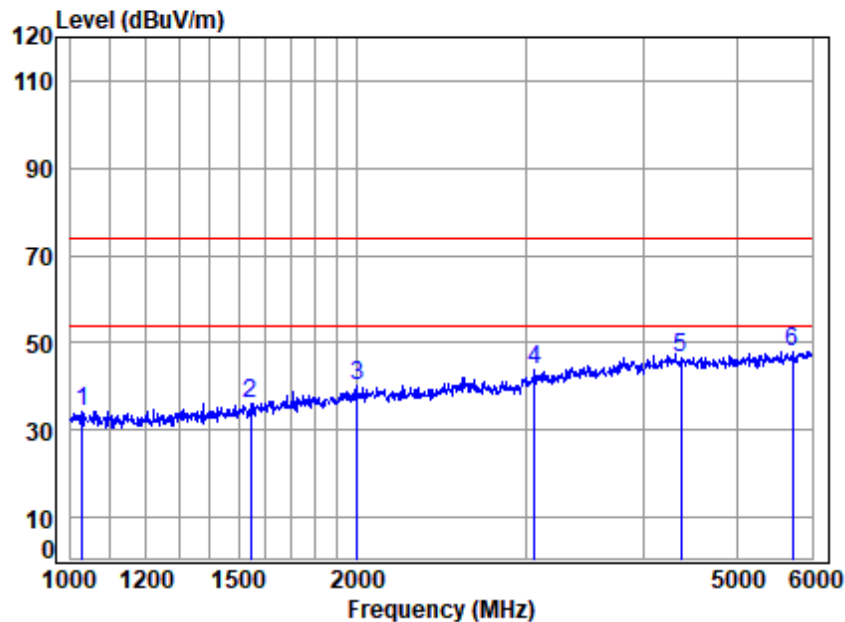
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

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Test Mode: 02; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02872AT  
Mode : 02

	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	1027.241	3.25	24.67	38.30	44.75	34.37	74.00	-39.63	peak
2	1545.577	4.13	25.86	36.76	42.61	35.84	74.00	-38.16	peak
3	1996.946	4.68	28.08	35.80	43.16	40.12	74.00	-33.88	peak
4	3069.889	5.68	31.34	35.36	42.12	43.78	74.00	-30.22	peak
5	4369.367	7.04	33.56	34.59	40.70	46.71	74.00	-27.29	peak
6 q	5716.644	7.97	34.50	35.02	40.51	47.96	74.00	-26.04	peak



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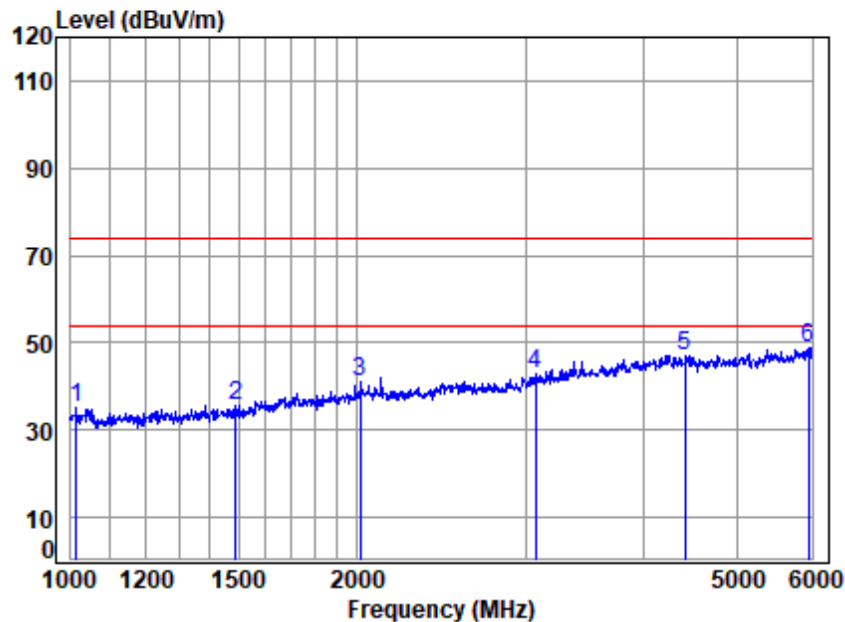
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

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Test Mode: 02; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 02872AT  
Mode : 02

	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	1012.621	3.22	24.85	38.35	45.45	35.17	74.00	-38.83	peak
2	1491.172	4.05	25.37	36.90	43.24	35.76	74.00	-38.24	peak
3	2014.917	4.70	28.19	35.78	43.92	41.03	74.00	-32.97	peak
4	3075.395	5.68	31.35	35.35	41.11	42.79	74.00	-31.21	peak
5	4416.593	7.07	33.50	34.62	41.03	46.98	74.00	-27.02	peak
6 q	5946.487	8.13	34.89	35.04	40.96	48.94	74.00	-25.06	peak



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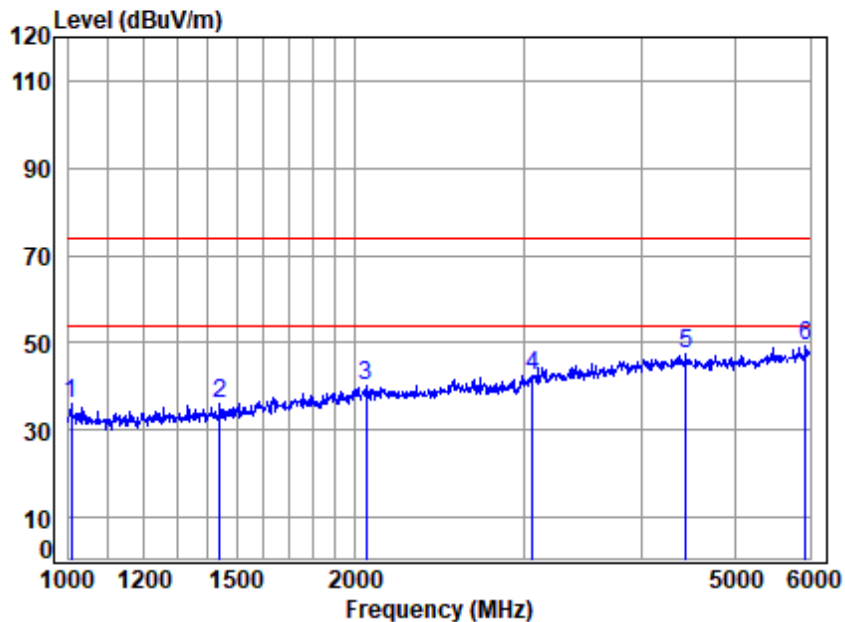
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

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Test Mode: 03; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02872AT  
Mode : 03

	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	1005.390	3.20	24.93	38.38	46.36	36.11	74.00	-37.89	peak
2	1441.262	3.98	25.17	37.02	43.91	36.04	74.00	-37.96	peak
3	2051.345	4.74	28.40	35.77	42.61	39.98	74.00	-34.02	peak
4	3069.889	5.68	31.34	35.36	40.66	42.32	74.00	-31.68	peak
5	4448.361	7.09	33.50	34.64	41.35	47.30	74.00	-26.70	peak
6 q	5935.842	8.13	34.87	35.04	41.12	49.08	74.00	-24.92	peak



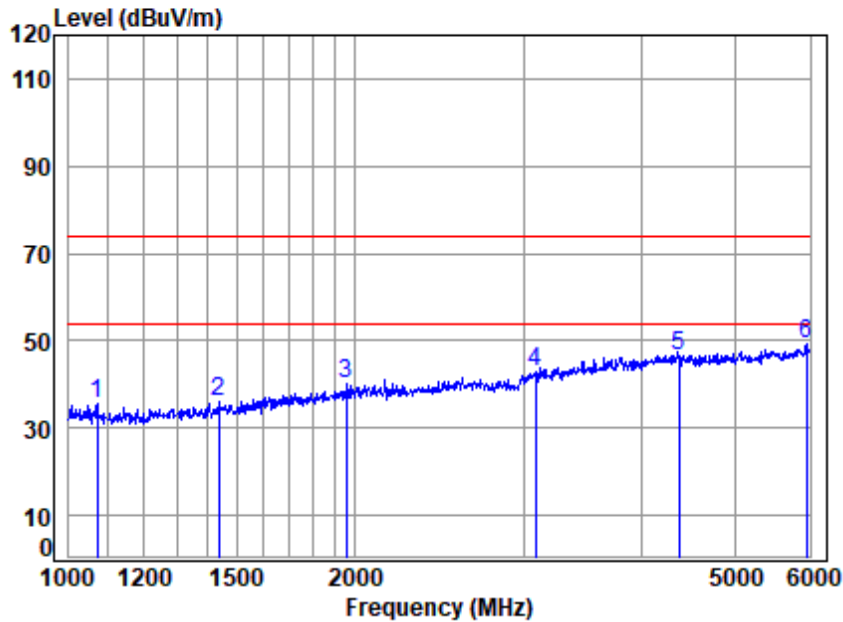
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Test Mode: 03; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 02872AT  
Mode : 03

	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	1072.378	3.34	24.22	38.14	45.99	35.41	74.00	-38.59	peak
2	1438.682	3.97	25.16	37.03	44.09	36.19	74.00	-37.81	peak
3	1957.973	4.63	27.76	35.87	43.59	40.11	74.00	-33.89	peak
4	3091.970	5.71	31.38	35.33	41.02	42.78	74.00	-31.22	peak
5	4369.367	7.04	33.56	34.59	40.63	46.64	74.00	-27.36	peak
6 q	5946.487	8.13	34.89	35.04	41.11	49.09	74.00	-24.91	peak





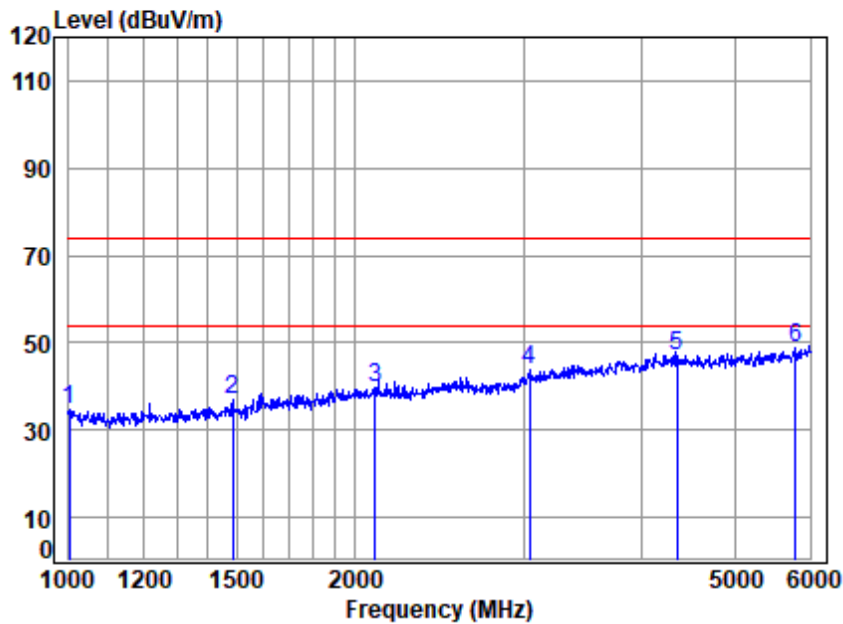
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

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Test Mode: 04; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02872AT  
Mode : 04

	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	3.19	24.98	38.39	44.69	34.47	74.00	-39.53	peak
2	1485.838	4.04	25.34	36.91	44.54	37.01	74.00	-36.99	peak
3	2099.687	4.79	28.50	35.75	42.06	39.60	74.00	-34.40	peak
4	3042.509	5.64	31.23	35.40	42.12	43.59	74.00	-30.41	peak
5	4353.737	7.03	33.59	34.58	41.01	47.05	74.00	-26.95	peak
6 q	5799.177	8.03	34.60	35.03	41.35	48.95	74.00	-25.05	peak



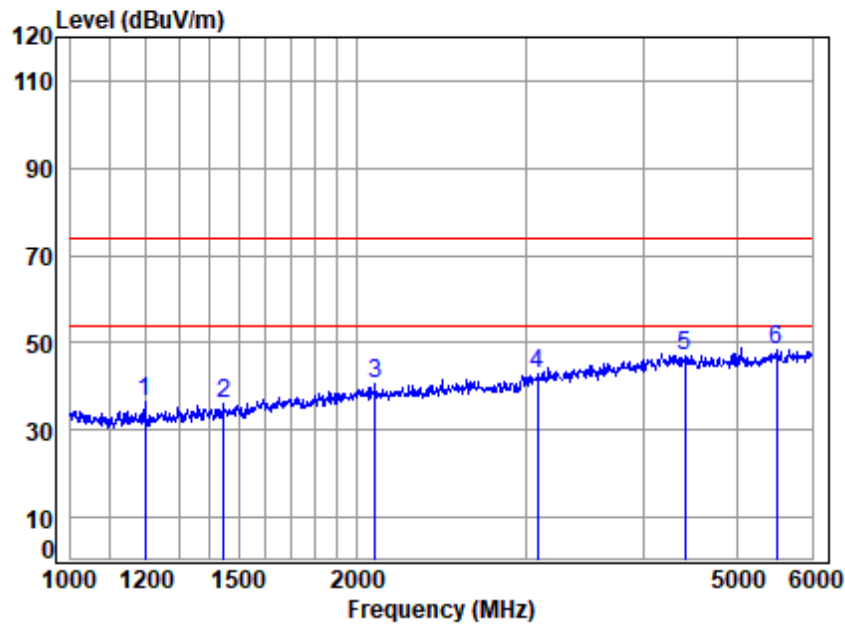
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Test Mode: 04; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 02872AT  
Mode : 04

	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	1196.231	3.58	24.39	37.73	46.11	36.35	74.00	-37.65	peak
2	1446.436	3.98	25.19	37.01	43.86	36.02	74.00	-37.98	peak
3	2084.693	4.77	28.47	35.76	43.34	40.82	74.00	-33.18	peak
4	3091.970	5.71	31.38	35.33	41.20	42.96	74.00	-31.04	peak
5	4408.687	7.06	33.50	34.61	40.93	46.88	74.00	-27.12	peak
6 q	5505.541	7.82	34.60	35.01	41.15	48.56	74.00	-25.44	peak



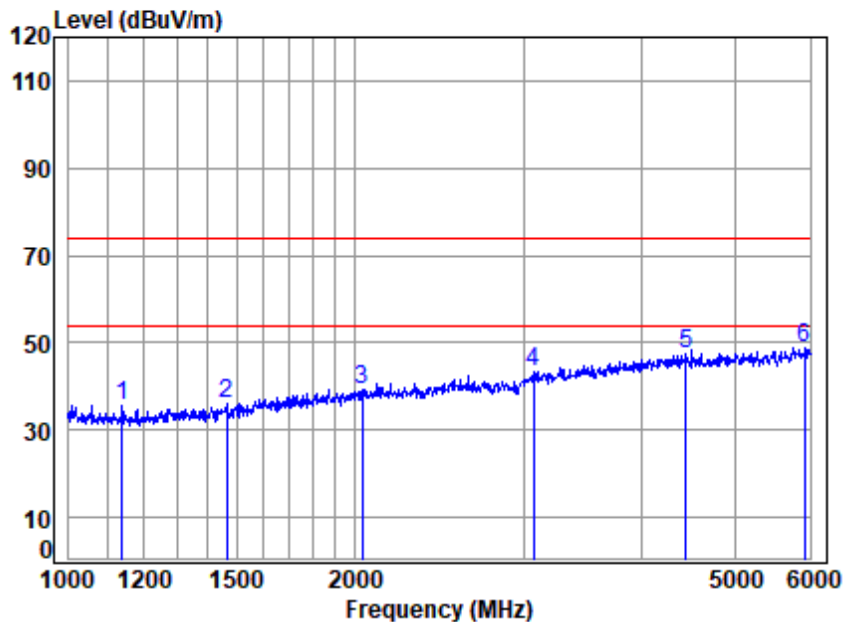
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

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Test Mode: 05; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02872AT  
Mode : 05

	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	1137.698	3.47	24.15	37.91	45.79	35.50	74.00	-38.50	peak
2	1464.692	4.01	25.26	36.96	43.87	36.18	74.00	-37.82	peak
3	2033.049	4.72	28.30	35.78	42.19	39.43	74.00	-34.57	peak
4	3075.395	5.68	31.35	35.35	41.80	43.48	74.00	-30.52	peak
5	4440.397	7.08	33.50	34.63	41.40	47.35	74.00	-26.65	peak
6 q	5925.216	8.12	34.85	35.04	40.73	48.66	74.00	-25.34	peak



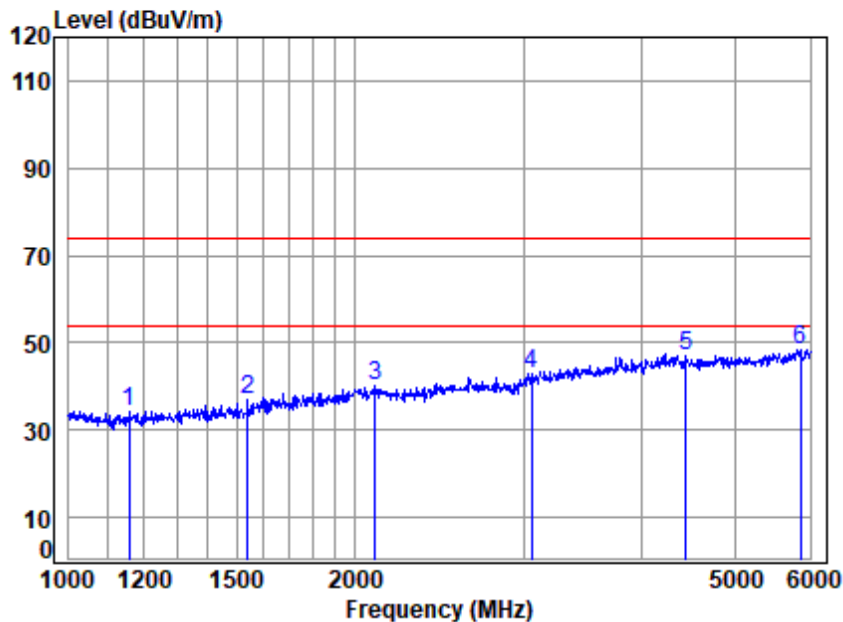
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Test Mode: 05; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 02872AT  
Mode : 05

	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	1156.193	3.50	24.23	37.85	44.32	34.20	74.00	-39.80	peak
2	1542.811	4.12	25.83	36.77	43.68	36.86	74.00	-37.14	peak
3	2099.687	4.79	28.50	35.75	42.47	40.01	74.00	-33.99	peak
4	3058.908	5.66	31.32	35.37	41.13	42.74	74.00	-31.26	peak
5	4448.361	7.09	33.50	34.64	41.11	47.06	74.00	-26.94	peak
6 q	5861.858	8.08	34.72	35.03	40.70	48.47	74.00	-25.53	peak





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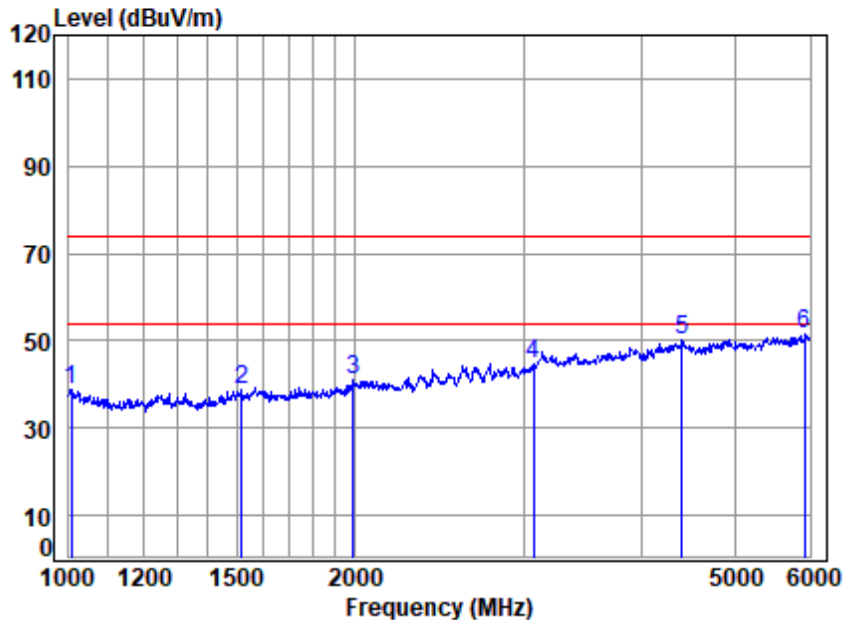
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

Page: 61 of 64

New data for the report of SZCR231200397401:

Test Mode: 07; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03974AT  
Mode : 07

	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	3.21	26.07	38.30	47.89	38.87	74.00	-35.13	peak
2	1518.131	4.09	26.87	38.39	46.28	38.85	74.00	-35.15	peak
3	1989.803	4.67	28.62	38.45	46.26	41.10	74.00	-32.90	peak
4	3075.395	5.68	30.91	36.14	44.23	44.68	74.00	-29.32	peak
5	4400.794	7.06	34.79	35.80	43.93	49.98	74.00	-24.02	peak
6 q	5925.216	8.12	34.65	34.93	43.55	51.39	74.00	-22.61	peak



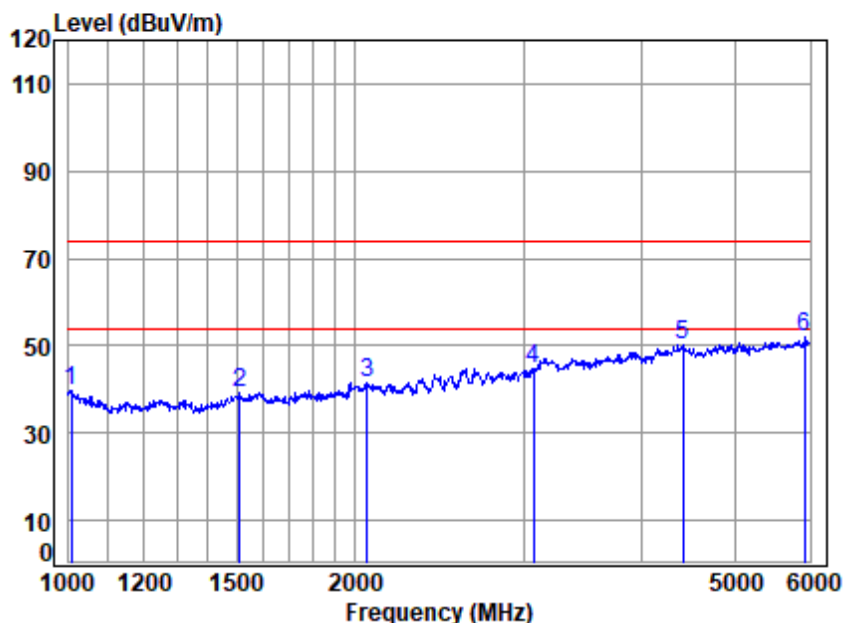
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Test Mode: 07; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03974AT  
Mode : 07

	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	1005.390	3.20	26.13	38.30	48.72	39.75	74.00	-34.25	peak
2	1512.700	4.08	26.85	38.39	46.80	39.34	74.00	-34.66	peak
3	2058.709	4.74	28.97	38.29	46.24	41.66	74.00	-32.34	peak
4	3075.395	5.68	30.91	36.14	44.30	44.75	74.00	-29.25	peak
5	4416.593	7.07	34.60	35.78	44.40	50.29	74.00	-23.71	peak
6 q	5925.216	8.12	34.65	34.93	43.99	51.83	74.00	-22.17	peak



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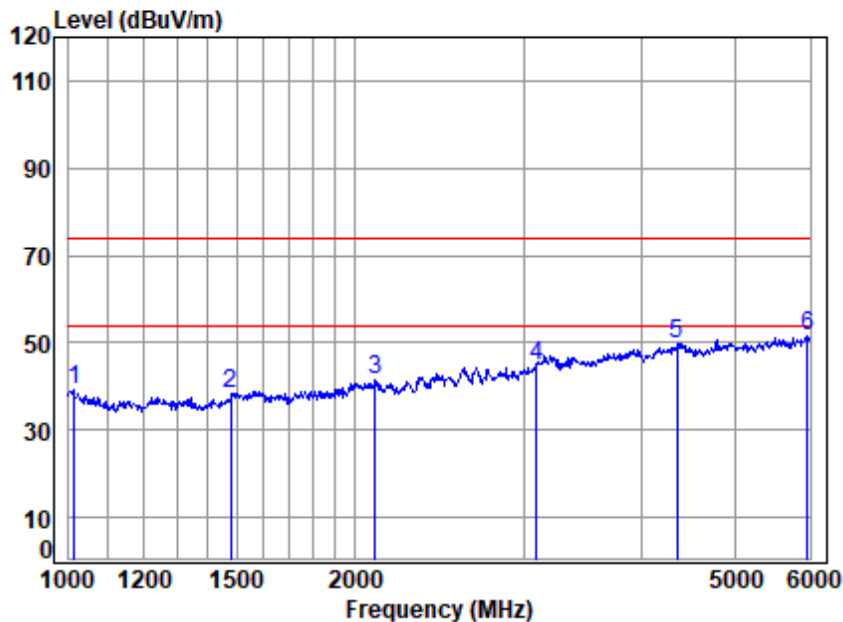
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

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Test Mode: 08; Polarity: Horizontal



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 03974AT  
Mode : 08

		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	1012.621	3.22	25.90	38.30	48.47	39.29	74.00	-34.71	peak
2	1480.523	4.03	26.25	38.38	46.58	38.48	74.00	-35.52	peak
3	2095.928	4.78	28.82	38.18	45.88	41.30	74.00	-32.70	peak
4	3097.515	5.71	31.53	36.14	43.83	44.93	74.00	-29.07	peak
5	4353.737	7.03	34.43	35.83	44.25	49.88	74.00	-24.12	peak
6 q	5967.835	8.15	34.77	34.91	43.61	51.62	74.00	-22.38	peak



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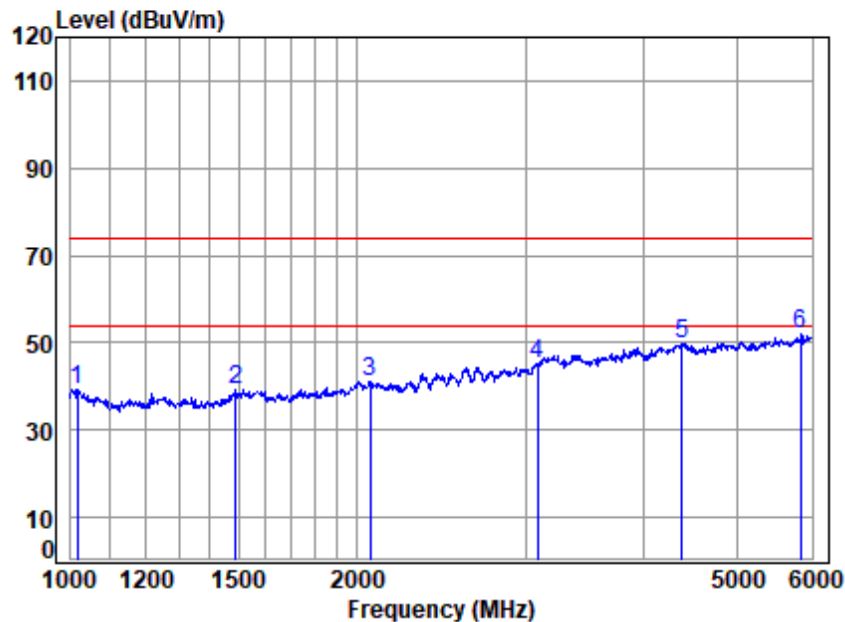
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200397401

Page: 64 of 64

Test Mode: 08; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 03974AT  
Mode : 08

	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	1016.257	3.22	25.78	38.30	48.64	39.34	74.00	-34.66	peak
2	1488.503	4.05	26.48	38.39	47.25	39.39	74.00	-34.61	peak
3	2062.401	4.75	28.95	38.27	45.60	41.03	74.00	-32.97	peak
4	3091.970	5.71	31.38	36.14	44.38	45.33	74.00	-28.67	peak
5	4377.203	7.04	34.62	35.81	44.05	49.90	74.00	-24.10	peak
6 q	5840.889	8.06	34.38	34.97	44.46	51.93	74.00	-22.07	peak

- End of the Report -



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