

TEST REPORT

Application No.: SZCR2401000352WM
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China
Equipment Under Test (EUT):
EUT Description: Mobile Phone
Model No.: 24049RN28L
Trade Mark: Redmi
FCC ID: 2AFZZN28L
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2024/03/01
Date of Test: 2024/03/06 to 2024/03/12
Date of Issue: 2024/03/22

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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

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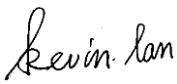
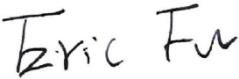
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024/03/22		Original

Authorized for issue by:				
				
		Kevin Lan/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



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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 3.84V from internal rechargeable battery which can be charged by AC/DC adapter.
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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.

Adapter no.	Brand Name	Mode No.	Manufacturer
1	MI	MDY-16-EF	Aohai
2	MI	MDY-16-EF	Chenyang

USB cable No.	Brand Name	Mode No.	Manufacturer
1	MI	K23230	KELI
2	MI	B23230	Fuhong
3	MI	L23230	LUXSHARE
4	MI	H23230	Dehong

Battery no.	Brand Name	Mode No.	Manufacturer
1	MI	BN5T	NVT
2	MI	BN5T	SWD
3	MI	BN5T	CosMX

EUT no.	Memory	Remark
1	8+256G	EUT1
2	8+128G	EUT2
3	6+128G	EUT3



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4.2 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	NETGEAR	DGN2200	REF. No.SEA22A00
Laptop	Lenovo	L480	REF. No.SEA18C00E
Earphone	One more	EM023	N/A

4.3 Measurement Uncertainty

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

Remark:

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

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



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4.4 Test Location

All tests were performed at:

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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	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
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	2023-03-20	2024-03-19
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

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
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2023-03-20	2024-03-19
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-11	2023-03-20	2024-03-19
Radio Communication Analyzer	Anritsu	MT8821C	SEM010-09	2023-03-21	2024-03-20



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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

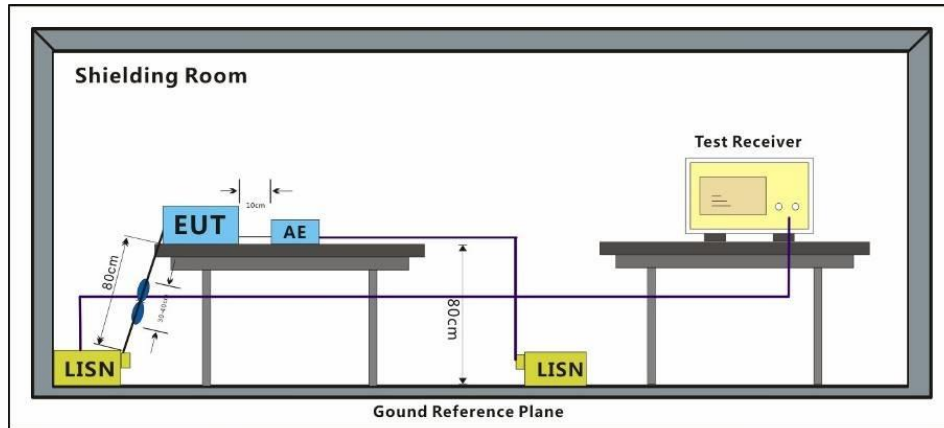
6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.5 °C Humidity: 47.6 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	EUT1:Transfer data between the EUT and the PC+USB cable1
Pre-scan	01	EUT2:Transfer data between the EUT and the PC+USB cable2
Pre-scan	02	EUT3:Transfer data between the EUT and the PC+USB cable3
Pre-scan	03	EUT(1):Transfer data between the EUT and the PC+USB cable4
Pre-scan	04	EUT(1):BT(Idle)+WLAN2.4G(Idle)+GNSS+FM+OTG output+earphone
Final test	05	EUT1:adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+GNSS+FM+Camera(Rear)+GSM850(RX)+Earphone
Pre-scan	06	EUT2:adapter(2)+usb Cable(2)+BT(Idle)+5GWLAN(Idle)+GNSS+FM+Camera(Front)+WCDMA Band 5(RX)+Earphone
Pre-scan	07	EUT(1):adapter(1)+usb Cable(3)+BT(Idle)+2.4GWLAN(Idle)+GNSS+FM+MP4+LTE Band 5(RX)+Earphone
Pre-scan	08	EUT(1):adapter(1)+usb Cable(4)+BT(Idle)+2.4GWLAN(Idle)+GNSS+FM+LTE Band 13(RX)+Earphone
Pre-scan	09	EUT(1):adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+GNSS+FM+Camera(Front)+LTE Band 26(RX)+Earphone

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

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

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



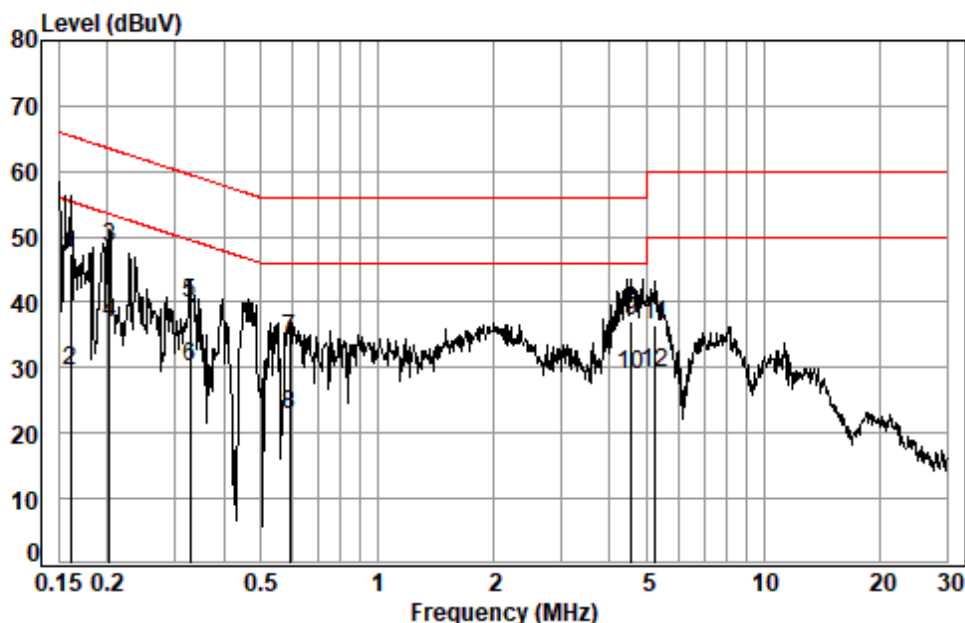
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Test Mode: 00; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00352WM

Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1607	0.02	9.50	37.82	47.34	65.43	-18.09	QP
2	0.1607	0.02	9.50	19.86	29.38	55.43	-26.05	Average
3 *	0.2029	0.02	9.47	38.85	48.34	63.49	-15.15	QP
4 *	0.2029	0.02	9.47	27.24	36.73	53.49	-16.76	Average
5	0.3268	0.03	9.53	30.30	39.86	59.53	-19.67	QP
6	0.3268	0.03	9.53	20.51	30.07	49.53	-19.46	Average
7	0.5948	0.04	9.65	24.59	34.28	56.00	-21.72	QP
8	0.5948	0.04	9.65	13.15	22.84	46.00	-23.16	Average
9	4.5494	0.09	9.56	27.33	36.98	56.00	-19.02	QP
10	4.5494	0.09	9.56	19.18	28.83	46.00	-17.17	Average
11	5.2491	0.09	9.60	26.74	36.43	60.00	-23.57	QP
12	5.2491	0.09	9.60	19.41	29.10	50.00	-20.90	Average



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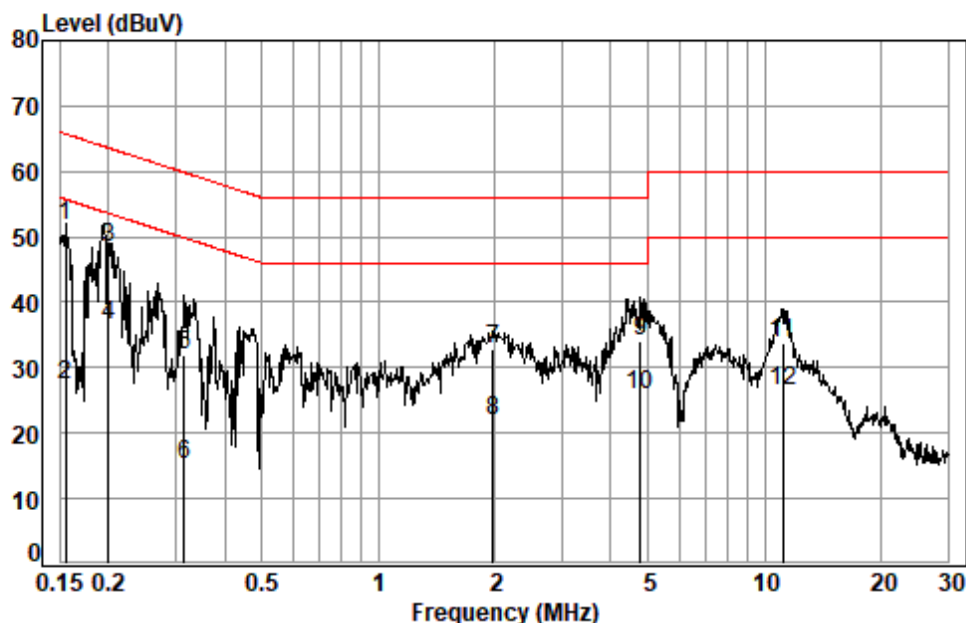
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Test Mode: 00; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 00352WM

Test mode: 00

		Cable	LISN	Read	Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 *	0.1548	0.02	9.63	42.10	51.75	65.74	-13.99 QP
2	0.1548	0.02	9.63	17.62	27.27	55.74	-28.47 Average
3	0.2007	0.02	9.66	38.57	48.25	63.58	-15.33 QP
4 *	0.2007	0.02	9.66	26.93	36.61	53.58	-16.97 Average
5	0.3149	0.03	9.70	22.22	31.95	59.84	-27.89 QP
6	0.3149	0.03	9.70	5.49	15.22	49.84	-34.62 Average
7	1.9801	0.07	9.80	22.92	32.79	56.00	-23.21 QP
8	1.9801	0.07	9.80	11.98	21.85	46.00	-24.15 Average
9	4.7716	0.09	9.73	24.21	34.03	56.00	-21.97 QP
10	4.7716	0.09	9.73	16.15	25.97	46.00	-20.03 Average
11	11.1386	0.18	10.12	23.40	33.70	60.00	-26.30 QP
12	11.1386	0.18	10.12	16.04	26.34	50.00	-23.66 Average



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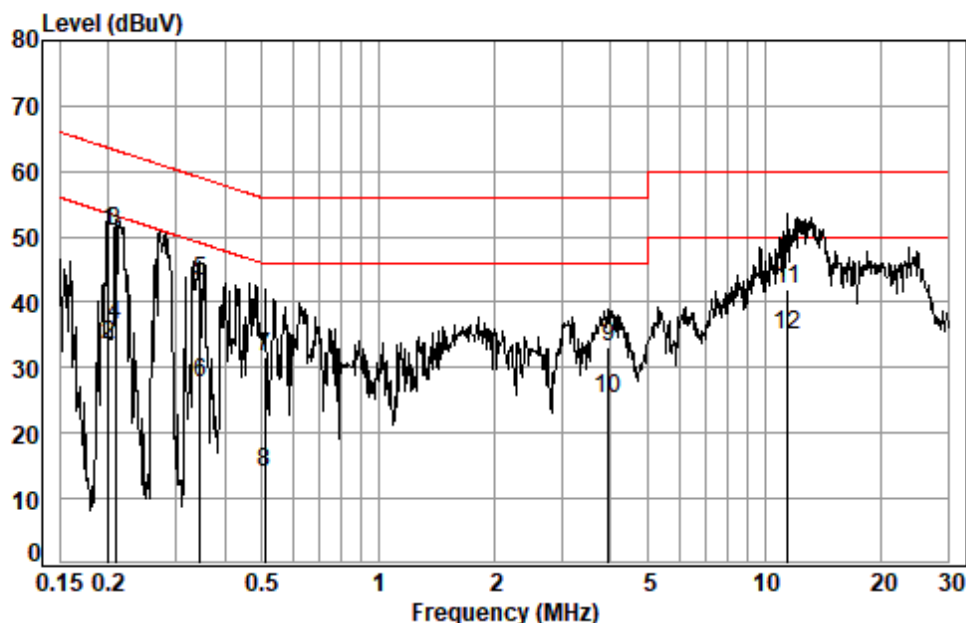
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Test Mode: 05; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 00352WM

Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1997	0.02	9.47	41.38	50.87	63.62	-12.75	QP
2	0.1997	0.02	9.47	23.90	33.39	53.62	-20.23	Average
3 *	0.2083	0.02	9.47	41.34	50.83	63.27	-12.44	QP
4	0.2083	0.02	9.47	27.09	36.58	53.27	-16.69	Average
5	0.3465	0.03	9.53	33.56	43.12	59.05	-15.93	QP
6	0.3465	0.03	9.53	18.19	27.75	49.05	-21.30	Average
7	0.5101	0.04	9.69	21.87	31.60	56.00	-24.40	QP
8	0.5101	0.04	9.69	4.39	14.12	46.00	-31.88	Average
9	3.9430	0.08	9.53	23.50	33.11	56.00	-22.89	QP
10	3.9430	0.08	9.53	15.54	25.15	46.00	-20.85	Average
11	11.4983	0.19	9.97	31.86	42.02	60.00	-17.98	QP
12 *	11.4983	0.19	9.97	24.68	34.84	50.00	-15.16	Average



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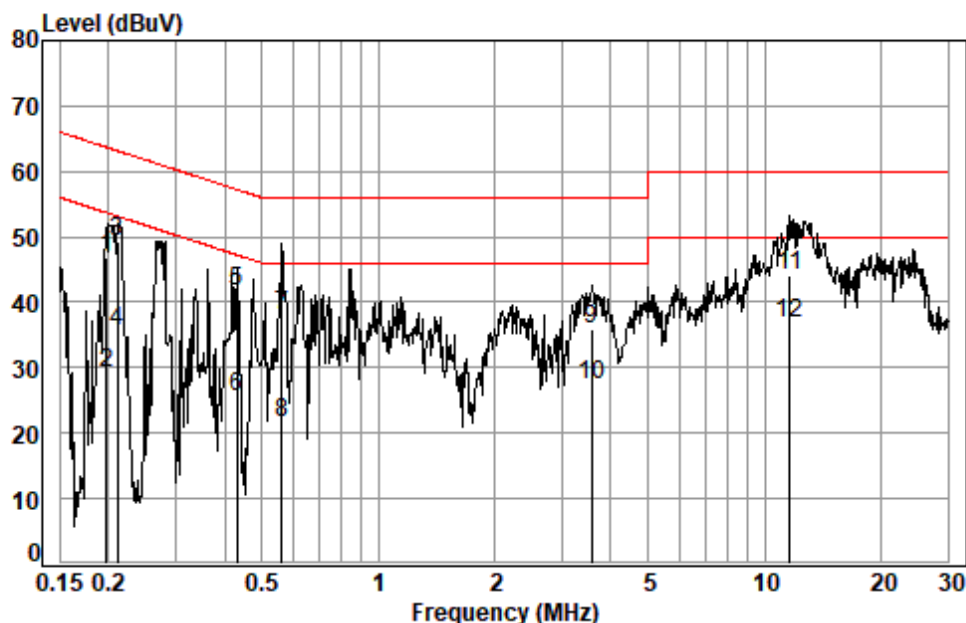
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Test Mode: 05; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00352WM
Test mode: 05

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1976	0.02	9.66	37.27	46.95	63.71	-16.76	QP
2	0.1976	0.02	9.66	19.64	29.32	53.71	-24.39	Average
3 *	0.2117	0.02	9.66	39.47	49.15	63.14	-13.99	QP
4	0.2117	0.02	9.66	25.81	35.49	53.14	-17.65	Average
5	0.4305	0.03	9.77	31.78	41.58	57.24	-15.66	QP
6	0.4305	0.03	9.77	15.68	25.48	47.24	-21.76	Average
7	0.5641	0.04	9.87	28.04	37.95	56.00	-18.05	QP
8	0.5641	0.04	9.87	11.61	21.52	46.00	-24.48	Average
9	3.5654	0.08	9.69	26.04	35.81	56.00	-20.19	QP
10	3.5654	0.08	9.69	17.59	27.36	46.00	-18.64	Average
11	11.6208	0.19	10.11	33.91	44.21	60.00	-15.79	QP
12 *	11.6208	0.19	10.11	26.64	36.94	50.00	-13.06	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)	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: 23.5 °C

Humidity: 47.5 % RH

Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	EUT1:Transfer data between the EUT and the PC+USB cable1
Final test	01	EUT2:Transfer data between the EUT and the PC+USB cable2
Final test	02	EUT3:Transfer data between the EUT and the PC+USB cable3
Final test	03	EUT(worst):Transfer data between the EUT and the PC+USB cable4
Pre-scan	04	EUT(worst):BT(Idle)+WLAN2.4G(Idle)+GNSS+FM+OTG output+earphone
Final test	05	EUT1:adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+GNSS+FM+Camera(Rear)+GSM850(RX)+Earphone
Final test	06	EUT2:adapter(2)+usb Cable(2)+BT(Idle)+5GWLAN(Idle)+GNSS+FM+Camera(Front)+WCDMA 5(RX)+Earphone



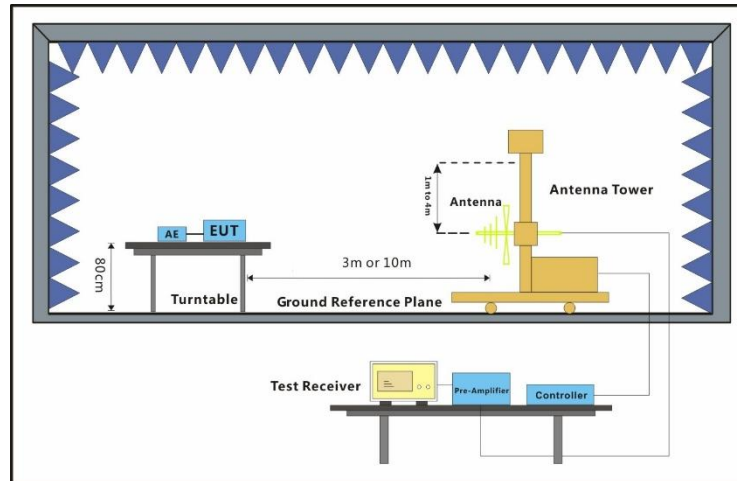
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6.2.3 Test Setup Diagram



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

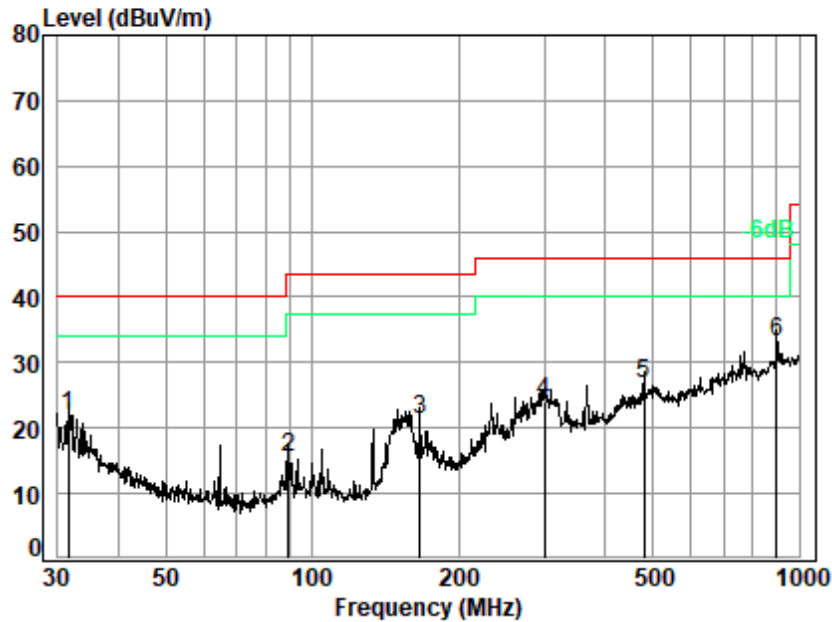
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Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00352WM
Test Mode: 00

	Ant Freq	Cable Factor	Preamp Loss	Preamp Factor	Read Level	Read Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.51	20.50	0.66	27.80	28.52	21.88	40.00	-18.12	QP
2	89.28	11.65	1.12	27.64	30.53	15.66	43.50	-27.84	QP
3	166.07	13.16	1.55	27.37	33.93	21.27	43.50	-22.23	QP
4	300.37	18.05	2.17	26.89	30.78	24.11	46.00	-21.89	QP
5	480.53	22.75	2.82	27.70	28.82	26.69	46.00	-19.31	QP
6 q	897.00	27.93	4.08	27.14	28.20	33.07	46.00	-12.93	QP



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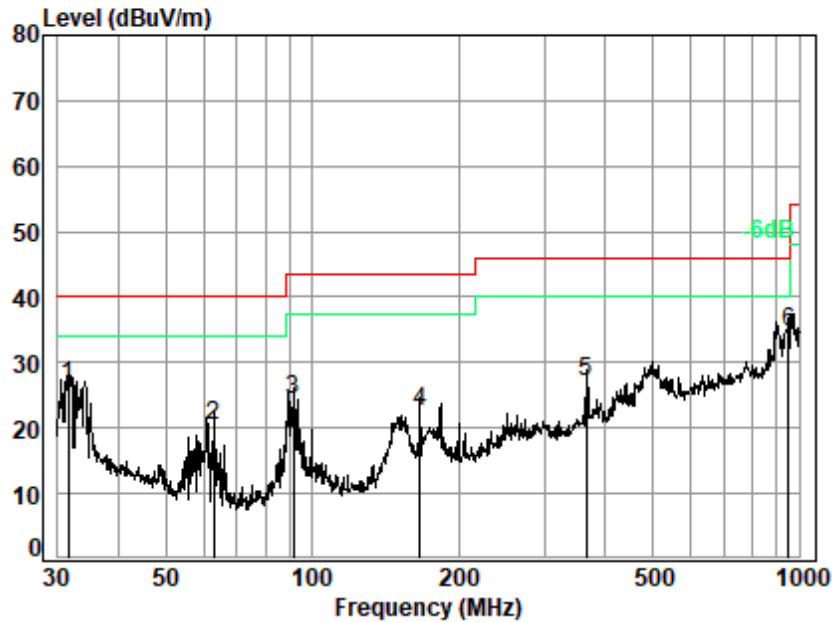
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Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00352WM
Test Mode: 00

	Ant	Cable	Preamp	Read	Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.51	20.50	0.66	27.80	33.08	26.44	40.00 -13.56 QP
2	62.87	11.18	0.94	27.71	36.00	20.41	40.00 -19.59 QP
3	91.49	11.86	1.14	27.63	38.84	24.21	43.50 -19.29 QP
4	166.65	13.15	1.55	27.37	35.28	22.61	43.50 -20.89 QP
5	365.54	20.31	2.42	27.18	31.49	27.04	46.00 -18.96 QP
6 q	952.09	28.17	4.23	26.88	29.20	34.72	46.00 -11.28 QP



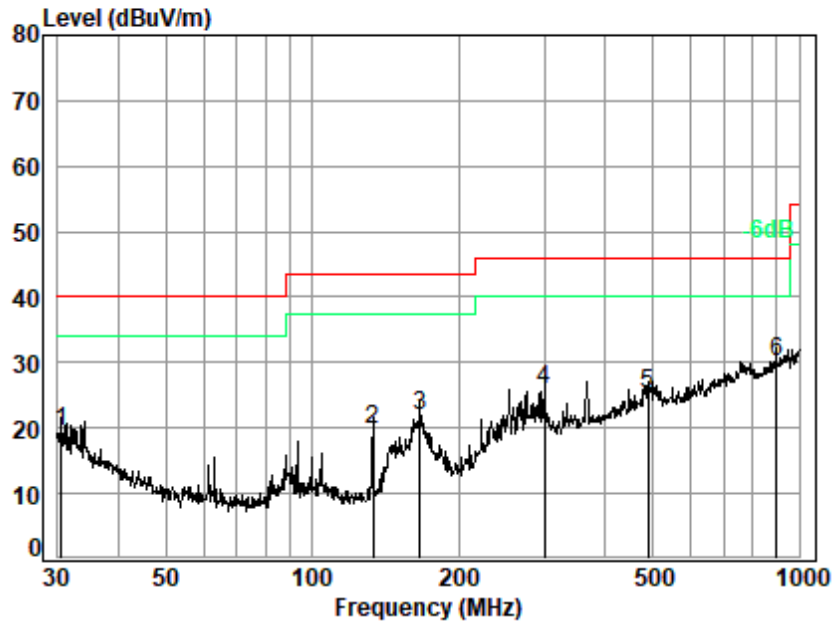
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Test Mode: 01; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00352WM
Test Mode: 01

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.53	20.95	0.65	27.80	25.69	19.49	40.00	-20.51 QP
2	133.15	11.21	1.37	27.49	34.64	19.73	43.50	-23.77 QP
3	166.07	13.16	1.55	27.37	34.57	21.91	43.50	-21.59 QP
4	300.37	18.05	2.17	26.89	32.60	25.93	46.00	-20.07 QP
5	489.03	22.85	2.85	27.73	27.23	25.20	46.00	-20.80 QP
6 q	897.00	27.93	4.08	27.14	25.28	30.15	46.00	-15.85 QP



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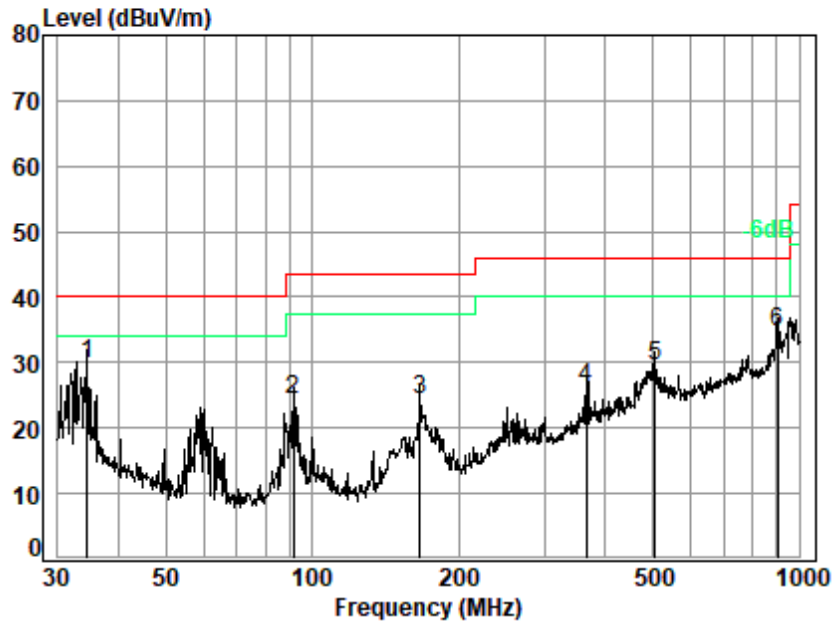
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Test Mode: 01; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00352WM
Test Mode: 01

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	q	34.52	19.14	0.69	27.79	37.86	29.90	40.00	-10.10 QP
2		91.49	11.86	1.14	27.63	38.87	24.24	43.50	-19.26 QP
3		166.07	13.16	1.55	27.37	37.13	24.47	43.50	-19.03 QP
4		365.54	20.31	2.42	27.18	30.55	26.10	46.00	-19.90 QP
5		506.48	23.09	2.91	27.81	31.39	29.58	46.00	-16.42 QP
6		903.31	27.83	4.10	27.11	29.93	34.75	46.00	-11.25 QP



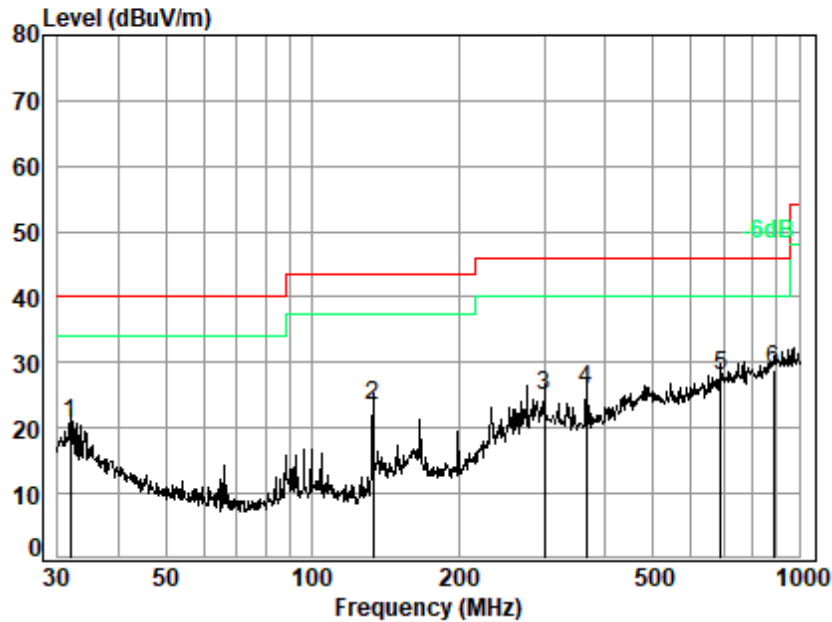
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Test Mode: 02; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00352WM
Test Mode: 02

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.84	20.34	0.66	27.80	27.47	20.67	40.00	-19.33 QP
2	133.15	11.21	1.37	27.49	38.29	23.38	43.50	-20.12 QP
3	300.37	18.05	2.17	26.89	31.53	24.86	46.00	-21.14 QP
4	365.54	20.31	2.42	27.18	30.26	25.81	46.00	-20.19 QP
5	691.99	25.74	3.49	27.94	26.61	27.90	46.00	-18.10 QP
6 q	887.61	27.96	4.06	27.19	24.17	29.00	46.00	-17.00 QP



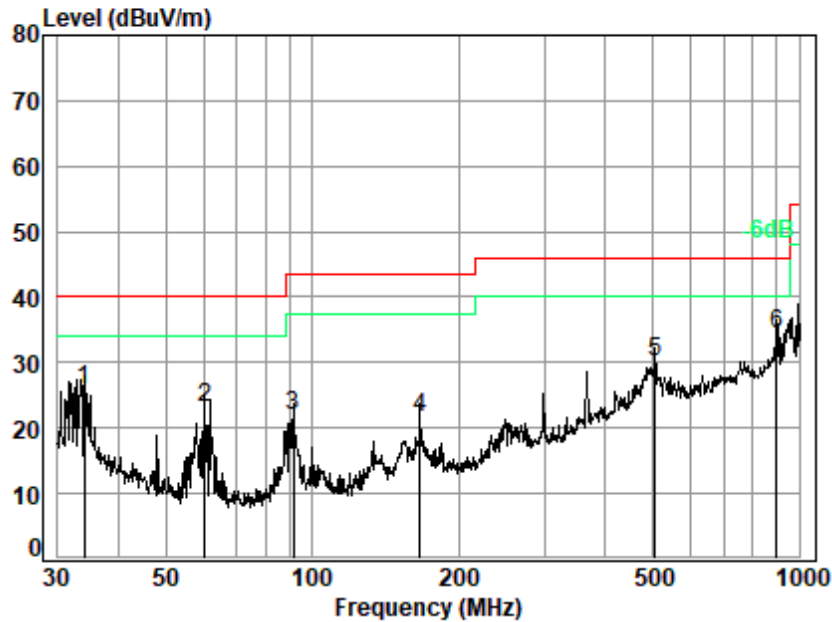
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Test Mode: 02; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00352WM
Test Mode: 02

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level	Limit	Over	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	34.04	19.41	0.68	27.79	33.61	25.91	40.00	-14.09 QP
2	60.07	11.47	0.92	27.72	38.35	23.02	40.00	-16.98 QP
3	91.49	11.86	1.14	27.63	36.44	21.81	43.50	-21.69 QP
4	166.07	13.16	1.55	27.37	34.26	21.60	43.50	-21.90 QP
5	506.48	23.09	2.91	27.81	32.03	30.22	46.00	-15.78 QP
6 q	900.15	27.82	4.09	27.13	29.69	34.47	46.00	-11.53 QP



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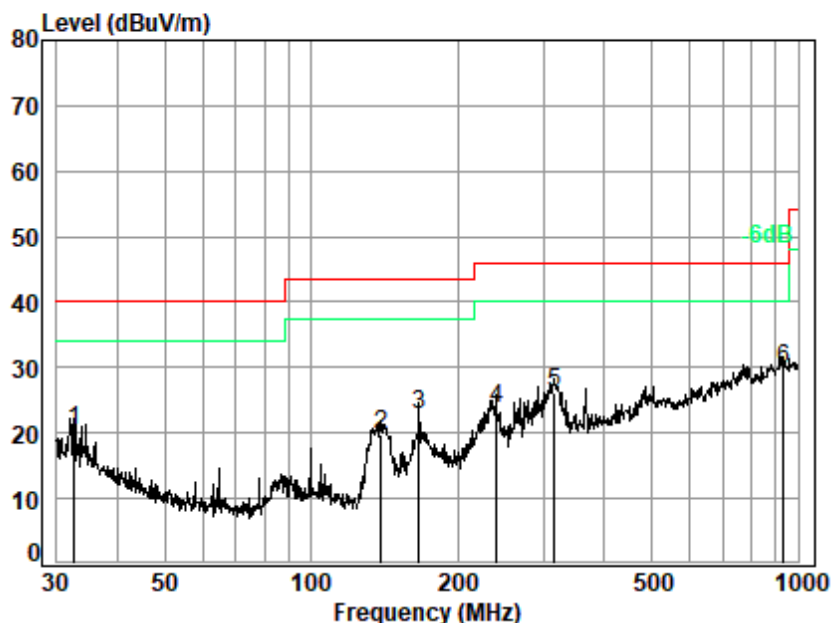
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Test Mode: 03; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00352WM
Test Mode: 03

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.63	20.02	0.67	27.80	27.38	20.27	40.00	-19.73 QP
2	138.87	11.70	1.40	27.47	34.26	19.89	43.50	-23.61 QP
3	166.07	13.16	1.55	27.37	35.39	22.73	43.50	-20.77 QP
4	239.99	17.07	1.91	27.11	31.97	23.84	46.00	-22.16 QP
5	315.48	18.41	2.23	26.96	32.54	26.22	46.00	-19.78 QP
6 q	932.27	28.16	4.17	26.98	24.40	29.75	46.00	-16.25 QP



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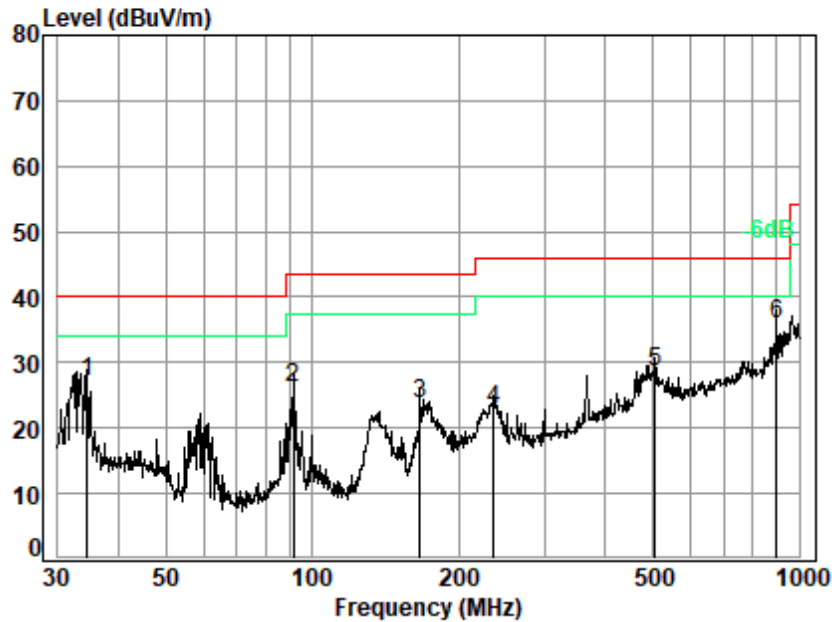
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Test Mode: 03; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00352WM
Test Mode: 03

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	34.52	19.14	0.69	27.79	34.89	26.93	40.00	-13.07 QP
2	91.49	11.86	1.14	27.63	40.86	26.23	43.50	-17.27 QP
3	166.65	13.15	1.55	27.37	36.43	23.76	43.50	-19.74 QP
4	235.82	17.07	1.89	27.12	31.01	22.85	46.00	-23.15 QP
5	506.48	23.09	2.91	27.81	30.51	28.70	46.00	-17.30 QP
6 q	897.00	27.93	4.08	27.14	31.08	35.95	46.00	-10.05 QP



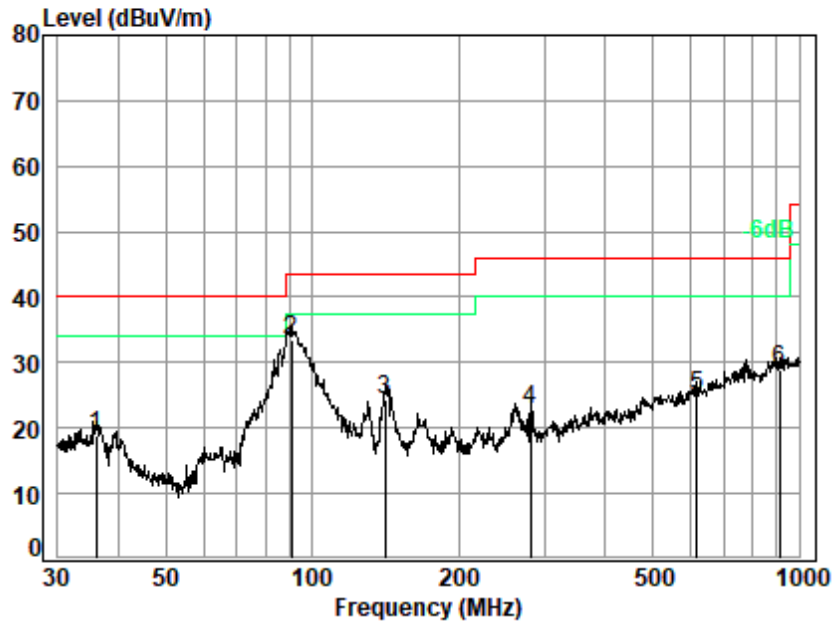
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Test Mode: 05; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00352WM
Test Mode: 05

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.00	18.31	0.71	27.79	27.73	18.96	40.00	-21.04 QP
2 q	90.54	11.77	1.13	27.64	48.31	33.57	43.50	-9.93 QP
3	141.33	11.96	1.41	27.46	38.44	24.35	43.50	-19.15 QP
4	281.01	16.91	2.09	26.96	30.65	22.69	46.00	-23.31 QP
5	616.37	24.98	3.26	28.18	24.94	25.00	46.00	-21.00 QP
6	909.67	27.97	4.12	27.08	23.77	28.78	46.00	-17.22 QP



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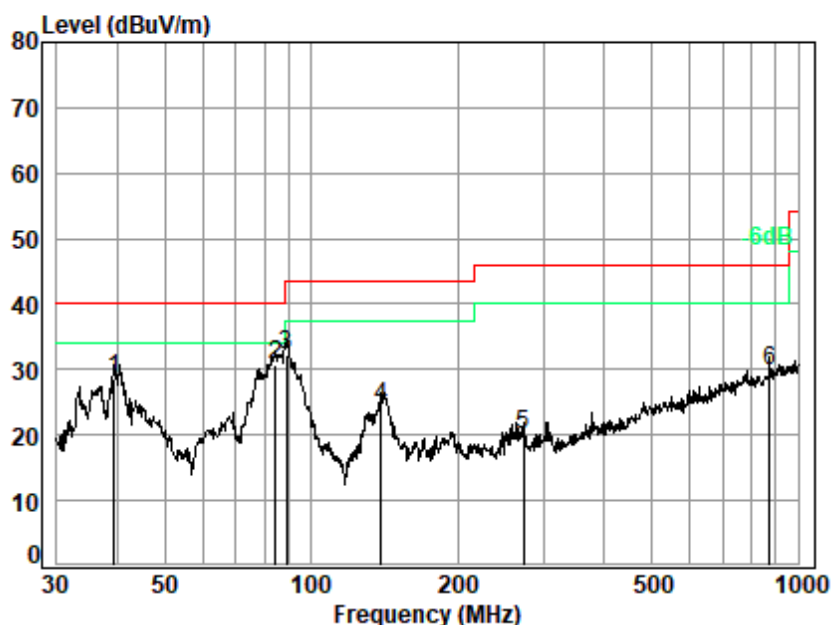
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Test Mode: 05; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00352WM
Test Mode: 05

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB
1	39.30	16.71	0.74	27.78	39.07	28.74	40.00 -11.26 QP
2 q	84.41	10.94	1.09	27.65	46.45	30.83	40.00 -9.17 QP
3	88.96	11.61	1.12	27.64	47.20	32.29	43.50 -11.21 QP
4	139.36	11.75	1.40	27.47	38.74	24.42	43.50 -19.08 QP
5	272.28	17.09	2.05	26.99	27.83	19.98	46.00 -26.02 QP
6	875.25	27.67	4.03	27.25	25.34	29.79	46.00 -16.21 QP



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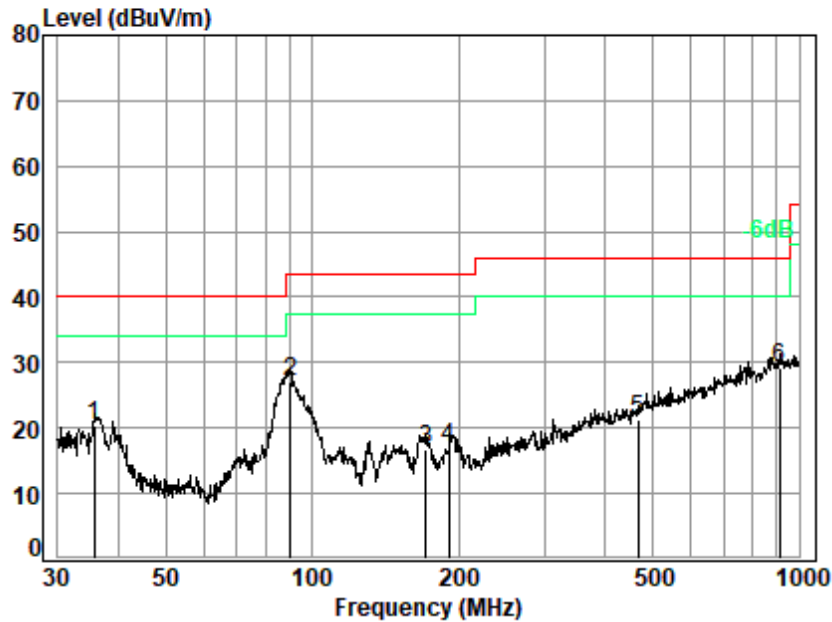
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Test Mode: 06; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 00352WM
Test Mode: 06

	Ant	Cable	Preamp	Read	Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	35.62	18.52	0.70	27.79	28.85	20.28	40.00 -19.72 QP
2 q	90.22	11.75	1.13	27.64	41.75	26.99	43.50 -16.51 QP
3	171.39	13.42	1.58	27.35	29.21	16.86	43.50 -26.64 QP
4	191.07	14.28	1.68	27.28	28.36	17.04	43.50 -26.46 QP
5	467.24	21.97	2.78	27.64	24.24	21.35	46.00 -24.65 QP
6	909.67	27.97	4.12	27.08	24.20	29.21	46.00 -16.79 QP



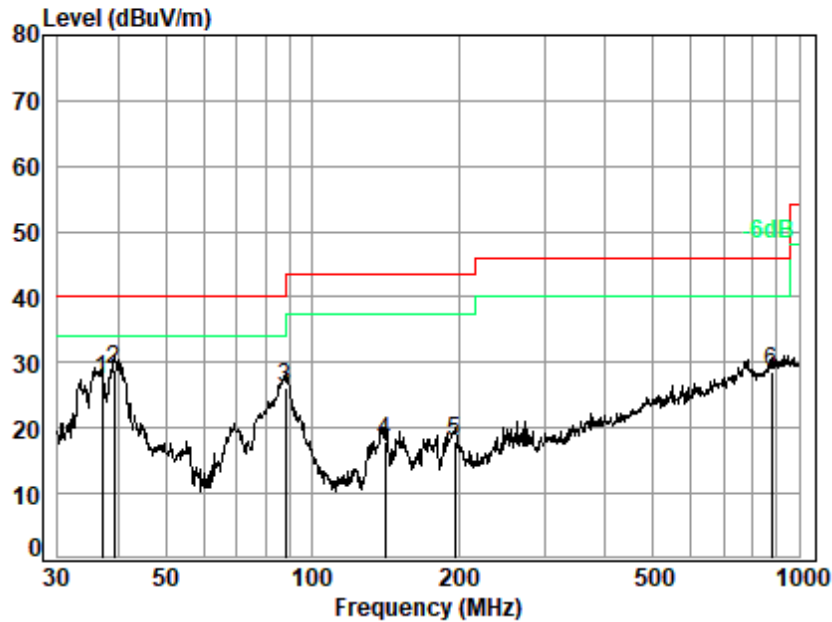
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Test Mode: 06; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 00352WM
Test Mode: 06

	Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	37.02	17.74	0.72	27.78	36.66	27.34	40.00	-12.66 QP
2 q	39.16	16.77	0.74	27.78	39.22	28.95	40.00	-11.05 QP
3	88.03	11.47	1.12	27.64	41.33	26.28	43.50	-17.22 QP
4	140.84	11.90	1.41	27.46	32.21	18.06	43.50	-25.44 QP
5	195.82	14.11	1.71	27.27	29.49	18.04	43.50	-25.46 QP
6	878.32	27.70	4.03	27.23	24.13	28.63	46.00	-17.37 QP



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6.3 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

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

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

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.9 °C

Humidity: 59.0 % RH

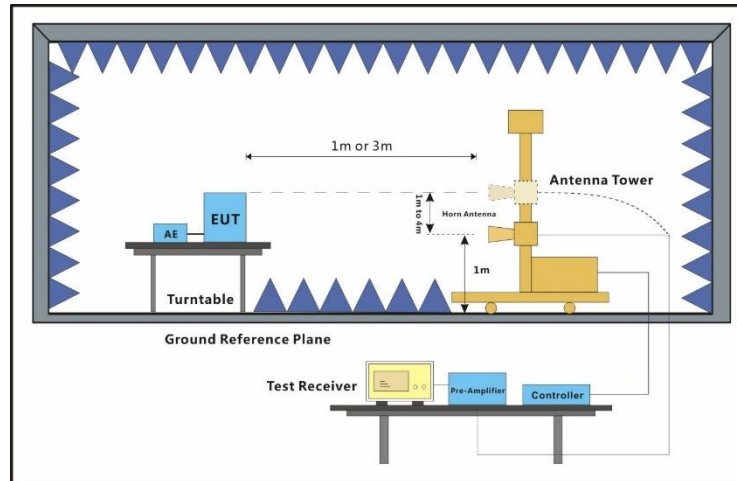
Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	EUT1:Transfer data between the EUT and the PC+USB cable1
Final test	01	EUT2:Transfer data between the EUT and the PC+USB cable2
Final test	02	EUT3:Transfer data between the EUT and the PC+USB cable3
Final test	03	EUT(worst):Transfer data between the EUT and the PC+USB cable4
Final test	04	EUT(worst):BT(Idle)+WLAN2.4G(Idle)+GNSS+FM+OTG output+earphone
Final test	05	EUT1:adapter(1)+usb Cable(1)+BT(Idle)+2.4GWLAN(Idle)+GNSS+FM+Camera(Rear)+GSM850(RX)+Earphone
Final test	06	EUT2:adapter(2)+usb Cable(2)+BT(Idle)+5GWLAN(Idle)+GNSS+FM+Camera(Front)+WCDMA 5(RX)+Earphone



6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

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

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

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



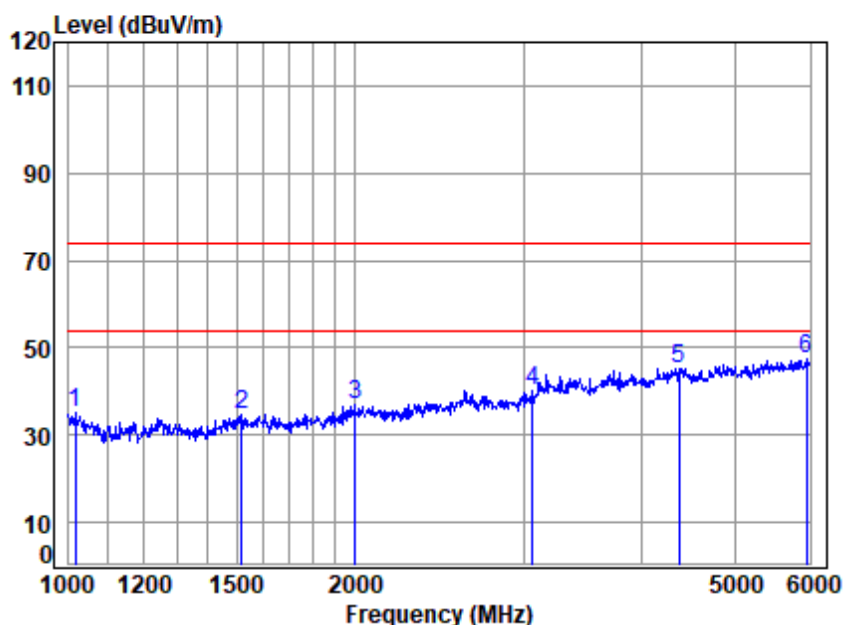
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Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00352WM
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	1016.257	3.22	25.78	38.30	44.55	35.25	74.00	-38.75	peak
2	1518.131	4.09	26.87	38.39	42.21	34.78	74.00	-39.22	peak
3	1996.946	4.68	28.75	38.45	42.08	37.06	74.00	-36.94	peak
4	3069.889	5.68	30.76	36.14	39.82	40.12	74.00	-33.88	peak
5	4369.367	7.04	34.55	35.82	39.60	45.37	74.00	-28.63	peak
6 p	5946.487	8.13	34.69	34.92	39.70	47.60	74.00	-26.40	peak



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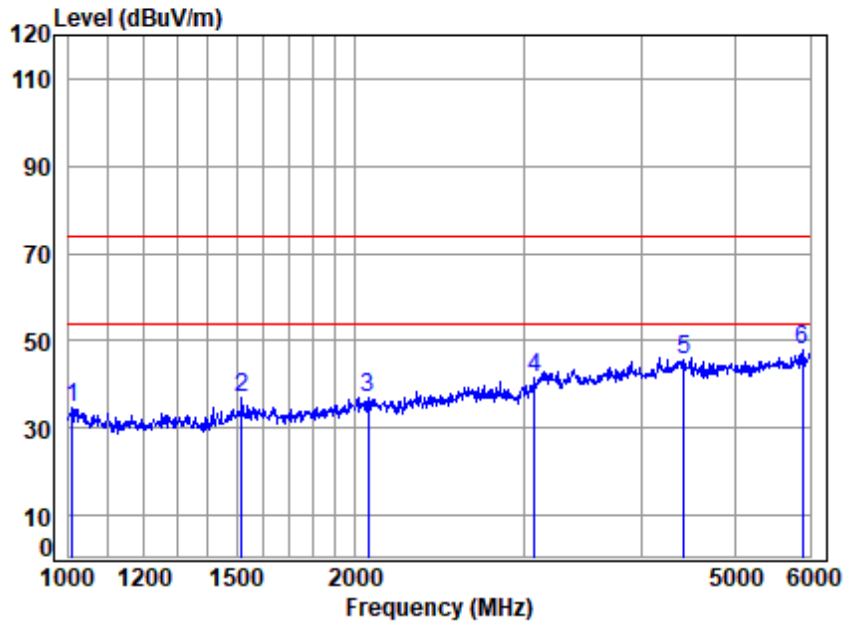
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Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00352WM
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	1008.999	3.21	26.01	38.30	43.96	34.88	74.00	-39.12	peak
2	1518.131	4.09	26.87	38.39	44.25	36.82	74.00	-37.18	peak
3	2062.401	4.75	28.95	38.27	41.59	37.02	74.00	-36.98	peak
4	3080.910	5.69	31.07	36.14	40.71	41.33	74.00	-32.67	peak
5	4424.514	7.07	34.51	35.78	39.99	45.79	74.00	-28.21	peak
6 p	5893.452	8.10	34.57	34.95	40.14	47.86	74.00	-26.14	peak



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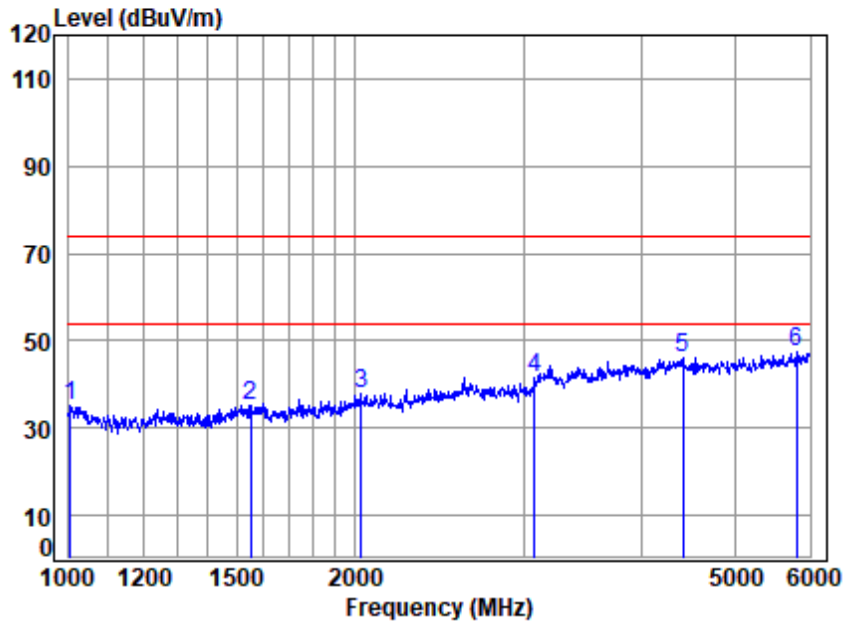
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100035206

Page: 34 of 47

Test Mode: 01; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00352WM
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	1003.590	3.20	26.19	38.30	43.83	34.92	74.00	-39.08	peak
2	1551.126	4.13	27.00	38.39	42.53	35.27	74.00	-38.73	peak
3	2025.777	4.71	28.90	38.38	42.46	37.69	74.00	-36.31	peak
4	3080.910	5.69	31.07	36.14	41.12	41.74	74.00	-32.26	peak
5	4408.687	7.06	34.70	35.79	40.08	46.05	74.00	-27.95	peak
6 p	5809.577	8.04	34.32	34.99	40.04	47.41	74.00	-26.59	peak



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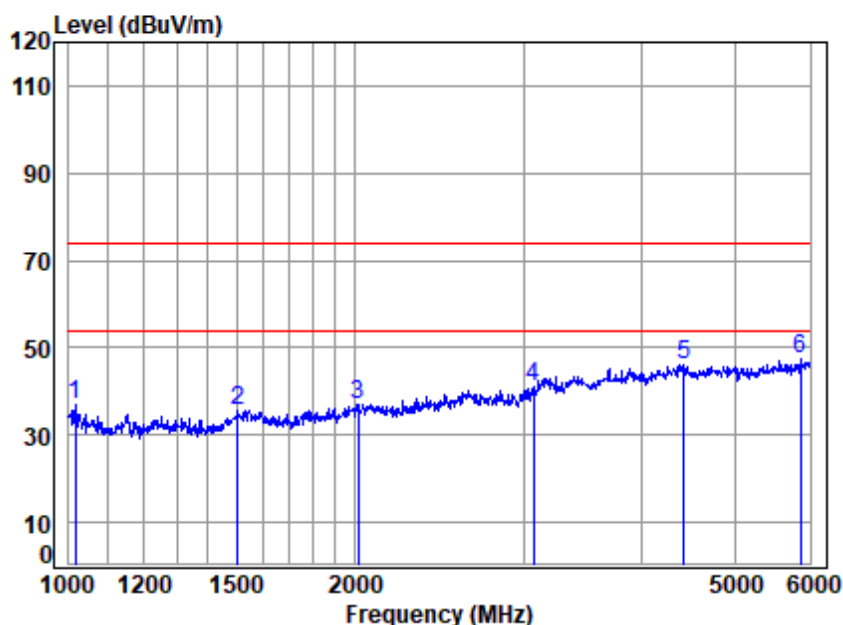
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Report No.: SZCR240100035206

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Test Mode: 01; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00352WM
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	1016.257	3.22	25.78	38.30	46.10	36.80	74.00	-37.20	peak
2	1504.591	4.07	26.82	38.39	43.06	35.56	74.00	-38.44	peak
3	2014.917	4.70	28.86	38.41	41.80	36.95	74.00	-37.05	peak
4	3075.395	5.68	30.91	36.14	40.68	41.13	74.00	-32.87	peak
5	4424.514	7.07	34.51	35.78	40.44	46.24	74.00	-27.76	peak
6 p	5861.858	8.08	34.45	34.96	40.00	47.57	74.00	-26.43	peak



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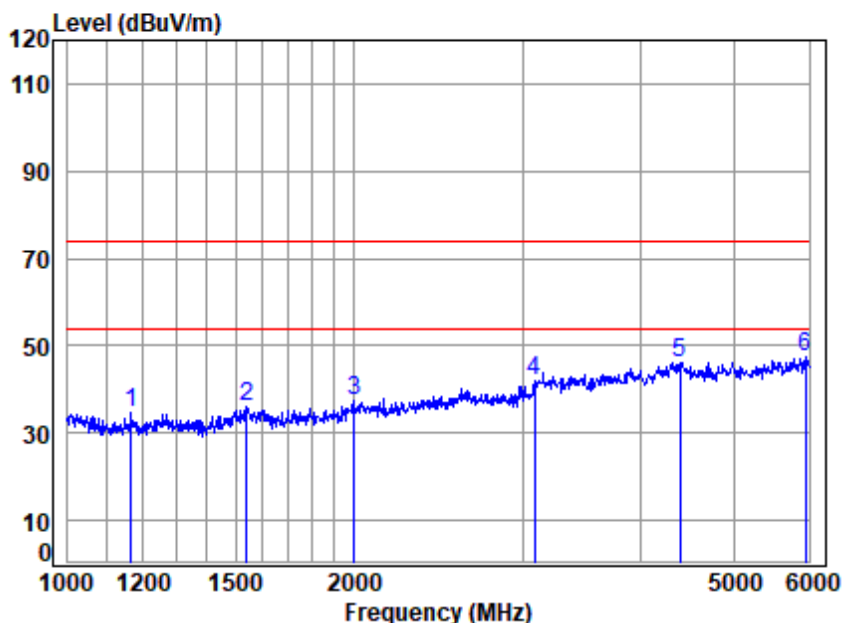
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Test Mode: 02; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00352WM
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	1166.597	3.52	24.07	38.33	45.24	34.50	74.00	-39.50	peak
2	1542.811	4.12	26.97	38.39	43.26	35.96	74.00	-38.04	peak
3	2000.528	4.68	28.80	38.45	42.57	37.60	74.00	-36.40	peak
4	3086.435	5.70	31.22	36.14	41.18	41.96	74.00	-32.04	peak
5	4392.917	7.05	34.74	35.80	40.21	46.20	74.00	-27.80	peak
6 p	5946.487	8.13	34.69	34.92	39.45	47.35	74.00	-26.65	peak



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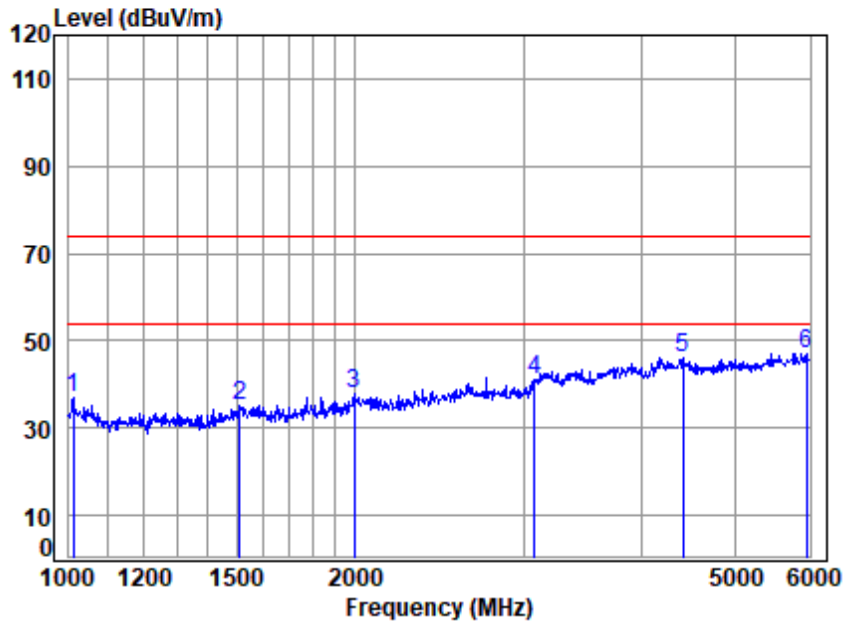
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Test Mode: 02; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00352WM
Mode : 02

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1010.809	3.21	25.95	38.30	46.08	36.94	74.00	-37.06	peak
2	1509.992	4.08	26.84	38.39	42.67	35.20	74.00	-38.80	peak
3	1993.371	4.67	28.68	38.45	42.78	37.68	74.00	-36.32	peak
4	3080.910	5.69	31.07	36.14	40.49	41.11	74.00	-32.89	peak
5	4408.687	7.06	34.70	35.79	40.25	46.22	74.00	-27.78	peak
6 p	5946.487	8.13	34.69	34.92	39.20	47.10	74.00	-26.90	peak



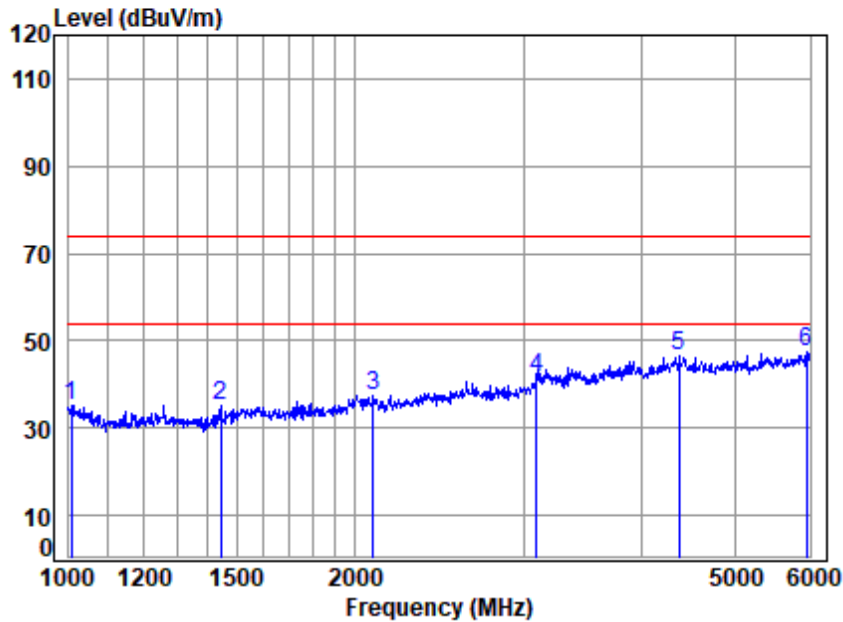
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Test Mode: 03; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00352WM
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	1007.193	3.21	26.07	38.30	44.30	35.28	74.00	-38.72	peak
2	1443.846	3.98	25.30	38.38	44.20	35.10	74.00	-38.90	peak
3	2084.693	4.77	28.86	38.21	42.05	37.47	74.00	-36.53	peak
4	3097.515	5.71	31.53	36.14	40.21	41.31	74.00	-32.69	peak
5	4369.367	7.04	34.55	35.82	40.88	46.65	74.00	-27.35	peak
6 p	5946.487	8.13	34.69	34.92	39.41	47.31	74.00	-26.69	peak



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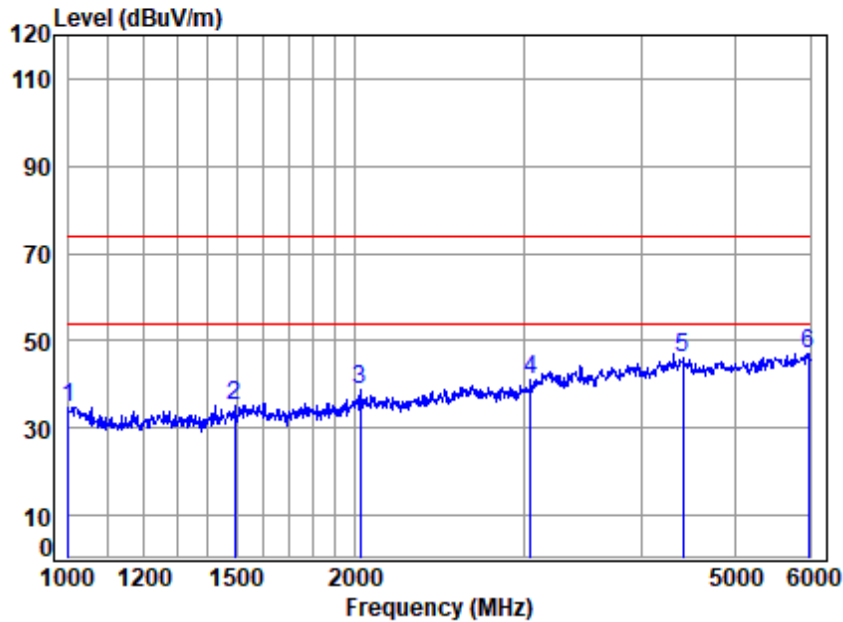
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100035206

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Test Mode: 03; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00352WM
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	1000.000	3.19	26.30	38.30	43.60	34.79	74.00	-39.21	peak
2	1493.846	4.05	26.63	38.39	42.88	35.17	74.00	-38.83	peak
3	2022.150	4.70	28.89	38.39	43.54	38.74	74.00	-35.26	peak
4	3053.432	5.65	30.30	36.14	41.15	40.96	74.00	-33.04	peak
5	4416.593	7.07	34.60	35.78	40.28	46.17	74.00	-27.83	peak
6 p	5978.538	8.16	34.81	34.91	39.11	47.17	74.00	-26.83	peak



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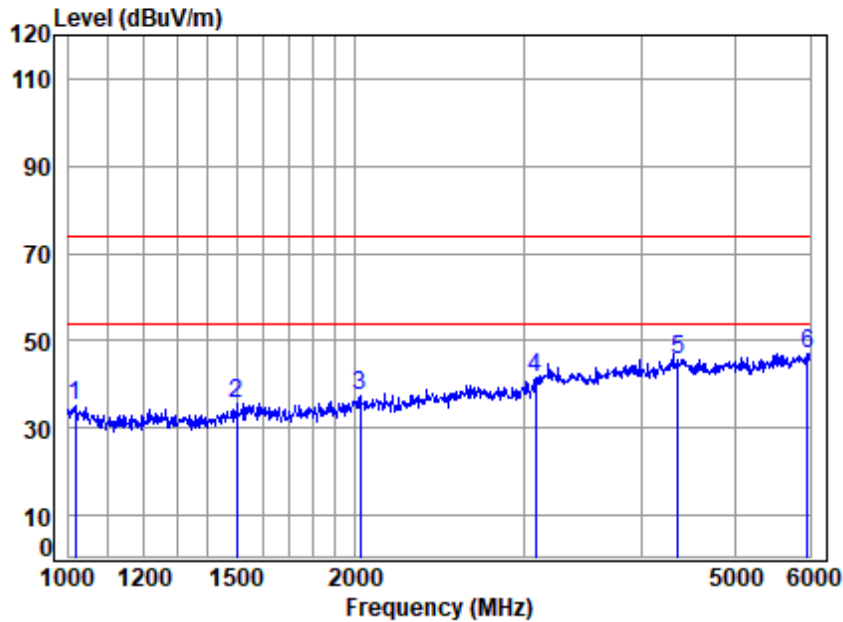
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Test Mode: 04; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00352WM
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	1016.257	3.22	25.78	38.30	44.26	34.96	74.00	-39.04	peak
2	1501.898	4.06	26.81	38.39	43.25	35.73	74.00	-38.27	peak
3	2022.150	4.70	28.89	38.39	42.17	37.37	74.00	-36.63	peak
4	3086.435	5.70	31.22	36.14	40.58	41.36	74.00	-32.64	peak
5	4361.545	7.03	34.49	35.82	40.08	45.78	74.00	-28.22	peak
6 p	5957.151	8.14	34.73	34.92	39.16	47.11	74.00	-26.89	peak



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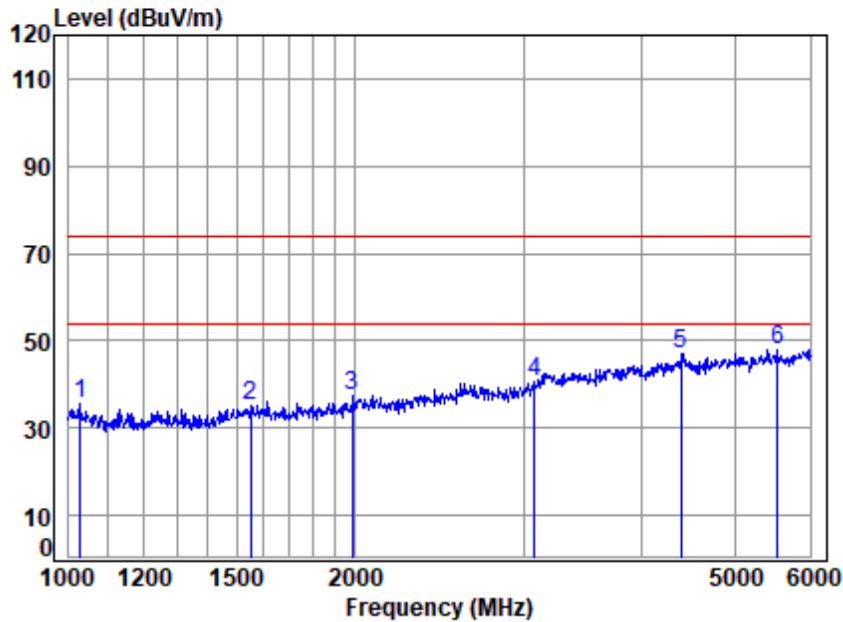
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Test Mode: 04; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00352WM
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	1029.083	3.25	25.37	38.31	45.13	35.44	74.00	-38.56	peak
2	1551.126	4.13	27.00	38.39	42.35	35.09	74.00	-38.91	peak
3	1986.241	4.67	28.55	38.45	42.61	37.38	74.00	-36.62	peak
4	3080.910	5.69	31.07	36.14	39.80	40.42	74.00	-33.58	peak
5	4392.917	7.05	34.74	35.80	41.18	47.17	74.00	-26.83	peak
6 p	5545.141	7.85	34.68	35.11	40.27	47.69	74.00	-26.31	peak



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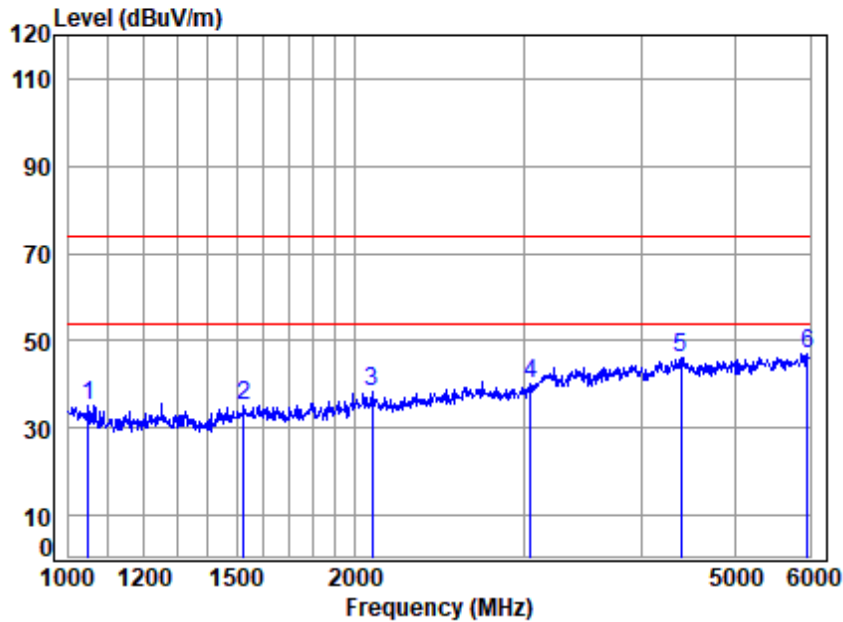
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Test Mode: 05; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00352WM
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	1049.567	3.29	24.71	38.31	45.58	35.27	74.00	-38.73	peak
2	1526.313	4.10	26.91	38.39	42.61	35.23	74.00	-38.77	peak
3	2080.961	4.77	28.88	38.22	43.07	38.50	74.00	-35.50	peak
4	3053.432	5.65	30.30	36.14	40.54	40.35	74.00	-33.65	peak
5	4392.917	7.05	34.74	35.80	40.32	46.31	74.00	-27.69	peak
6 p	5967.835	8.15	34.77	34.91	39.01	47.02	74.00	-26.98	peak



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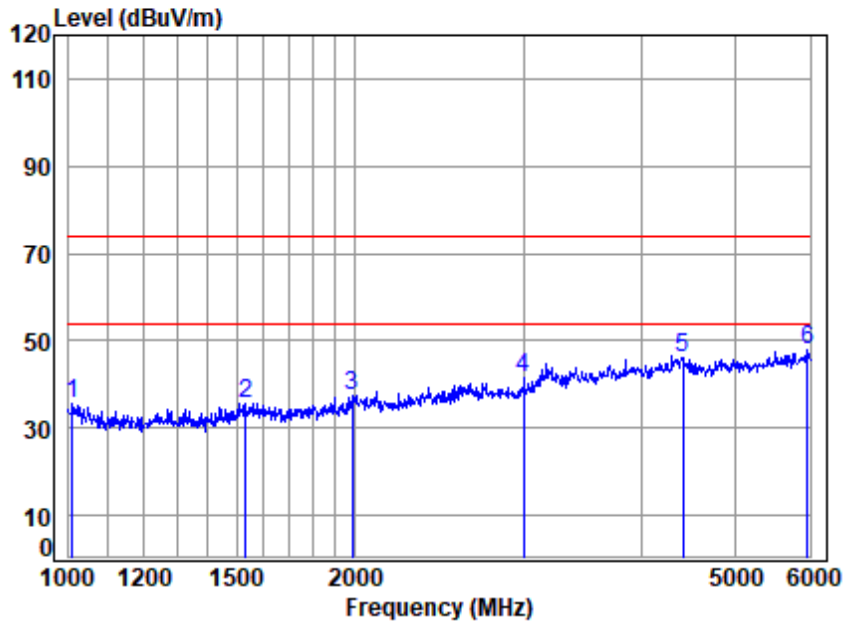
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100035206

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Test Mode: 05; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00352WM
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	1008.999	3.21	26.01	38.30	44.45	35.37	74.00	-38.63	peak
2	1534.540	4.11	26.94	38.39	43.09	35.75	74.00	-38.25	peak
3	1982.685	4.66	28.49	38.45	42.91	37.61	74.00	-36.39	peak
4	3004.588	5.59	30.20	36.14	41.99	41.64	74.00	-32.36	peak
5	4416.593	7.07	34.60	35.78	40.36	46.25	74.00	-27.75	peak
6 p	5957.151	8.14	34.73	34.92	39.91	47.86	74.00	-26.14	peak



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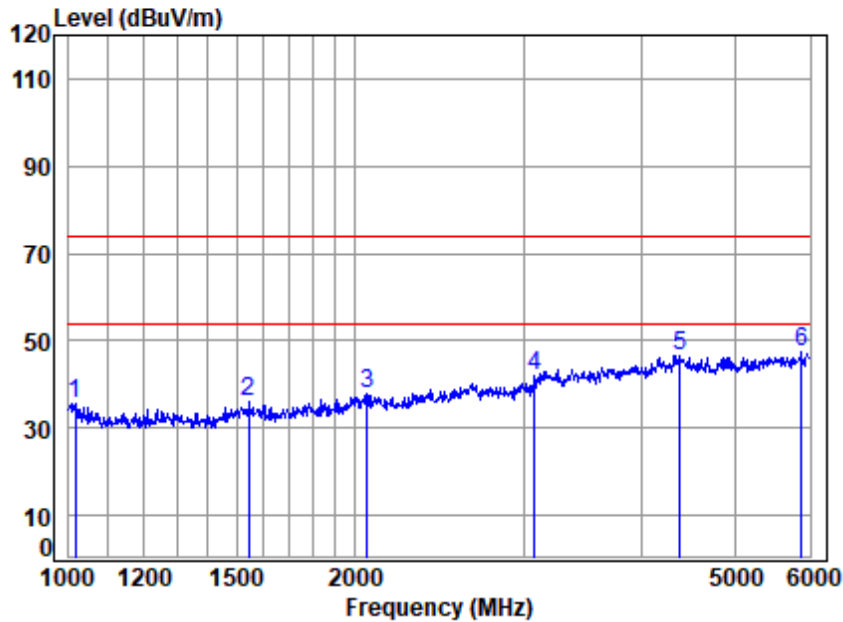
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Test Mode: 06; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00352WM
Mode : 06

	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	45.10	35.80	74.00	-38.20	peak
2	1545.577	4.13	26.98	38.39	43.24	35.96	74.00	-38.04	peak
3	2058.709	4.74	28.97	38.29	42.49	37.91	74.00	-36.09	peak
4	3080.910	5.69	31.07	36.14	41.51	42.13	74.00	-31.87	peak
5	4385.052	7.05	34.68	35.81	40.53	46.45	74.00	-27.55	peak
6 p	5872.370	8.08	34.49	34.96	39.64	47.25	74.00	-26.75	peak



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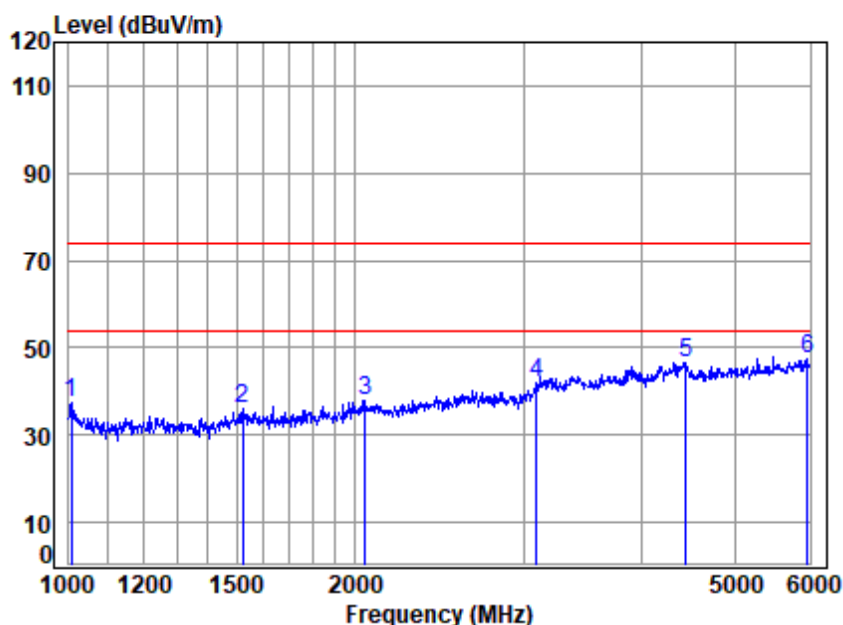
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Test Mode: 06; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00352WM
Mode : 06

	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	46.54	37.52	74.00	-36.48	peak
2	1520.854	4.09	26.88	38.39	43.48	36.06	74.00	-37.94	peak
3	2047.672	4.73	28.99	38.32	42.58	37.98	74.00	-36.02	peak
4	3097.515	5.71	31.53	36.14	40.80	41.90	74.00	-32.10	peak
5	4448.361	7.09	34.22	35.76	41.06	46.61	74.00	-27.39	peak
6 p	5957.151	8.14	34.73	34.92	39.48	47.43	74.00	-26.57	peak



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7 Test Setup Photo

Refer to Appendix A.3 - 15B Setup Photos.



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8 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2401000352WM

- End of the Report -

