

TEST REPORT

Application No.: SZCR2409003604WM
Applicant: Guangdong OPPO Mobile Telecommunications Corp.,Ltd.
Address of Applicant: NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong, China
Manufacturer: Guangdong OPPO Mobile Telecommunications Corp.,Ltd.
Address of Manufacturer: NO.18 Haibin Road, Wusha, Chang'an Town, Dongguan City, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Mobile Phone
Model No.: CPH2697
Trade Mark: OPPO
FCC ID: R9C-OP24261
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2024-09-23
Date of Test: 2024-10-18 to 2024-10-19
Date of Issue: 2024-11-18

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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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-11-18		Original

Authorized for issue by:				
		Sherlock Fang		
		Sherlock Fang/Project Engineer		
		Eric Fu		
		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 3.92V 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.

Item No.	Mode No.	Manufacturer	Remark
Adapter 1	VCB80AUH	Dongguan Aohai Technology Co.,Ltd.	/
Adapter 2	VCB80AUH	Huizhou Golden Lake Industrial Co., Ltd.	/
USB cable	DL129	/	/
Battery1	BLPB43	Sunwoda Electronic CO.,LTD.	EUT1
Battery2	BLPB43	Dongguan NVT Technology Co., Ltd	EUT2

Remark: Adapter 1 and 2 were selected to test.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Router	NETGEAR	DGN2200	REF. No.SEA22A00
Laptop	Lenovo	T14	REF. No.SEA18F04
Mouse	Lenovo	M-U0025-O	REF. No.:SEA24A00
Earphone	OPPO	MH135	/

4.3 Test modes

Pretest these modes to find the worst case and show the worse data in the test items:	28 Transfer data between the EUT1 and the PC+USB Cable 29 Transfer data between the EUT2 and the PC+USB Cable 30 Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable+Adapter1/earphone 31 Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable+Adapter2/earphone 32 Telecom Idle+EUT(worst)+NFC+BT+WLAN5G+USB cable+Adapter(worst)/earphone 33 Telecom Idle+EUT(worst)+NFC+camera(Front)+USB cable+Adapter(worst)/earphone 34 Telecom Idle+EUT(worst)+NFC+camera(Back)+USB cable+Adapter(worst)/earphone 35 Telecom Idle+EUT(worst)+NFC+BT+WLAN2.4G+GNSS+OTG output 36 GSM 850(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone 37 WCDMA Band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone 38 LTE band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone 39 LTE band 12(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB
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	cable+Adapter(worst)/earphone
40	LTE band 13(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
41	LTE band 17(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
42	LTE band 26(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
43	NR_SA_N5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
44	NR_SA_N12(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
45	NR_SA_N26(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone

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_{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:

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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



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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	ESR	SZ-WRG-M-047	2024-01-30	2025-01-29
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05



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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024-03-14	2025-03-13
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-11	2024-03-14	2025-03-13
Radio Communication Analyzer	Anritsu	MT8821C	SEM010-09	2024-03-14	2025-03-13
Radio Communication Analyzer	Anritsu	MT8000A	SEM010-10	2024-03-14	2025-03-13



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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: 41.5 % RH

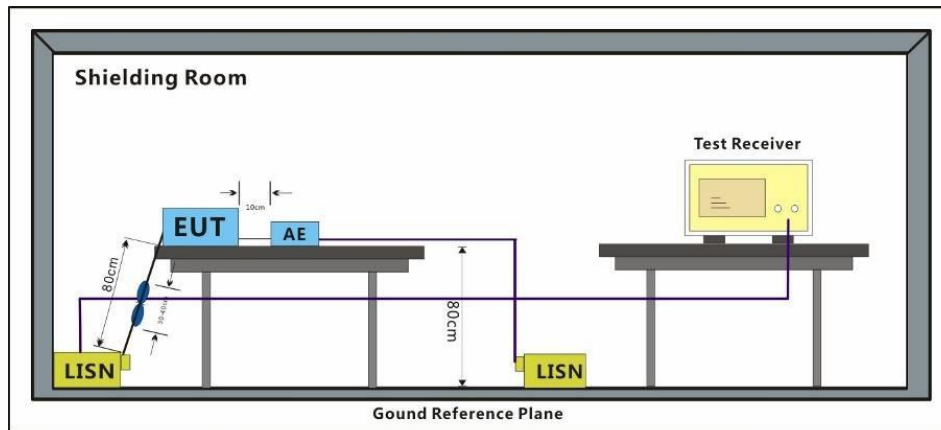
Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	28	Transfer data between the EUT1 and the PC+USB Cable
Final test	29	Transfer data between the EUT2 and the PC+USB Cable
Final test	30	Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable+Adapter1/earphone
Final test	31	Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable+Adapter2/earphone
Pre-scan	32	Telecom Idle+EUT(worst)+NFC+BT+WLAN5G+USB cable+Adapter(worst)/earphone
Pre-scan	33	Telecom Idle+EUT(worst)+NFC+camera(Front)+USB cable+Adapter(worst)/earphone
Pre-scan	34	Telecom Idle+EUT(worst)+NFC+camera(Back)+USB cable+Adapter(worst)/earphone
Pre-scan	35	Telecom Idle+EUT(worst)+NFC+BT+WLAN2.4G+GNSS+OTG output
Pre-scan	36	GSM 850(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	37	WCDMA Band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	38	LTE band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	43	NR_SA_N5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/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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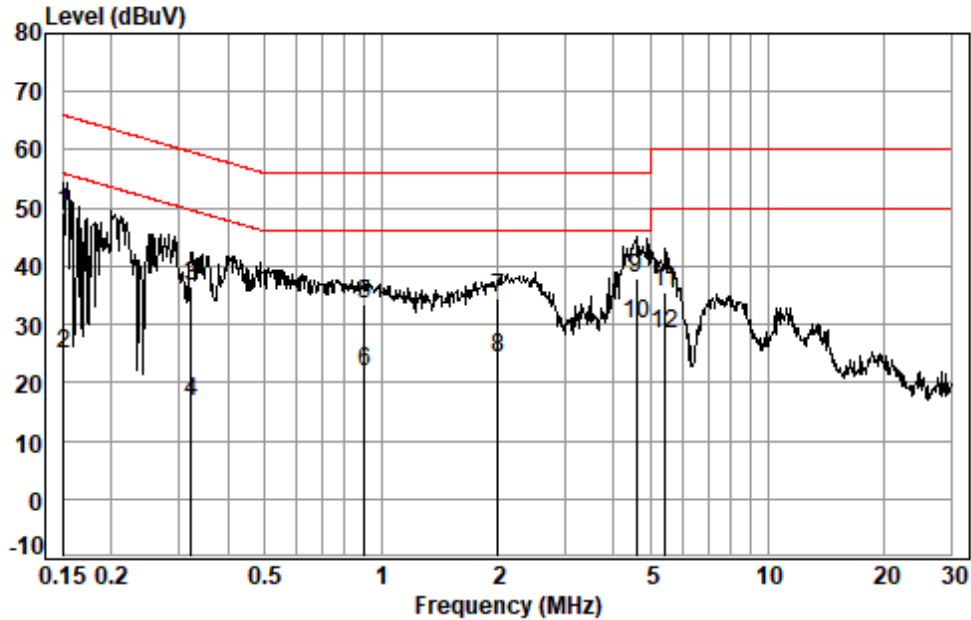
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Test Mode: 28; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03604WM
Test mode: 28

		Cable	LISN	Read	Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 *	0.1508	0.06	9.81	39.24	49.11	65.96	-16.85 QP
2	0.1508	0.06	9.81	15.07	24.94	55.96	-31.02 Average
3	0.3217	0.07	9.74	26.83	36.64	59.66	-23.02 QP
4	0.3217	0.07	9.74	6.84	16.65	49.66	-33.01 Average
5	0.9039	0.09	9.71	23.67	33.47	56.00	-22.53 QP
6	0.9039	0.09	9.71	11.91	21.71	46.00	-24.29 Average
7	2.0012	0.10	9.66	24.73	34.49	56.00	-21.51 QP
8	2.0012	0.10	9.66	14.58	24.34	46.00	-21.66 Average
9	4.5736	0.12	9.64	28.12	37.88	56.00	-18.12 QP
10 *	4.5736	0.12	9.64	20.14	29.90	46.00	-16.10 Average
11	5.4474	0.13	9.69	25.86	35.68	60.00	-24.32 QP
12	5.4474	0.13	9.69	18.60	28.42	50.00	-21.58 Average



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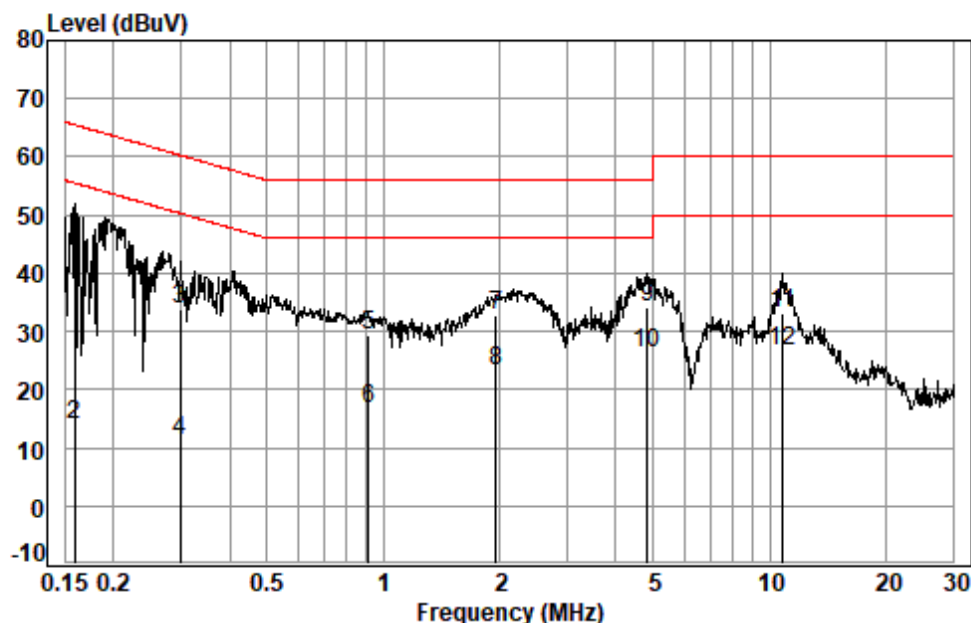
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Test Mode: 28; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 03604WM

Test mode: 28

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1590	0.06	9.82	32.44	42.32	65.52	-23.20	QP
2	0.1590	0.06	9.82	3.91	13.79	55.52	-41.73	Average
3	0.2987	0.07	9.79	23.94	33.80	60.28	-26.48	QP
4	0.2987	0.07	9.79	1.46	11.32	50.28	-38.96	Average
5	0.9136	0.09	9.73	19.69	29.51	56.00	-26.49	QP
6	0.9136	0.09	9.73	6.73	16.55	46.00	-29.45	Average
7	1.9593	0.10	9.69	22.98	32.77	56.00	-23.23	QP
8	1.9593	0.10	9.69	13.55	23.34	46.00	-22.66	Average
9 *	4.8224	0.12	9.66	24.40	34.18	56.00	-21.82	QP
10 *	4.8224	0.12	9.66	16.52	26.30	46.00	-19.70	Average
11	10.8474	0.21	10.03	22.90	33.14	60.00	-26.86	QP
12	10.8474	0.21	10.03	16.26	26.50	50.00	-23.50	Average



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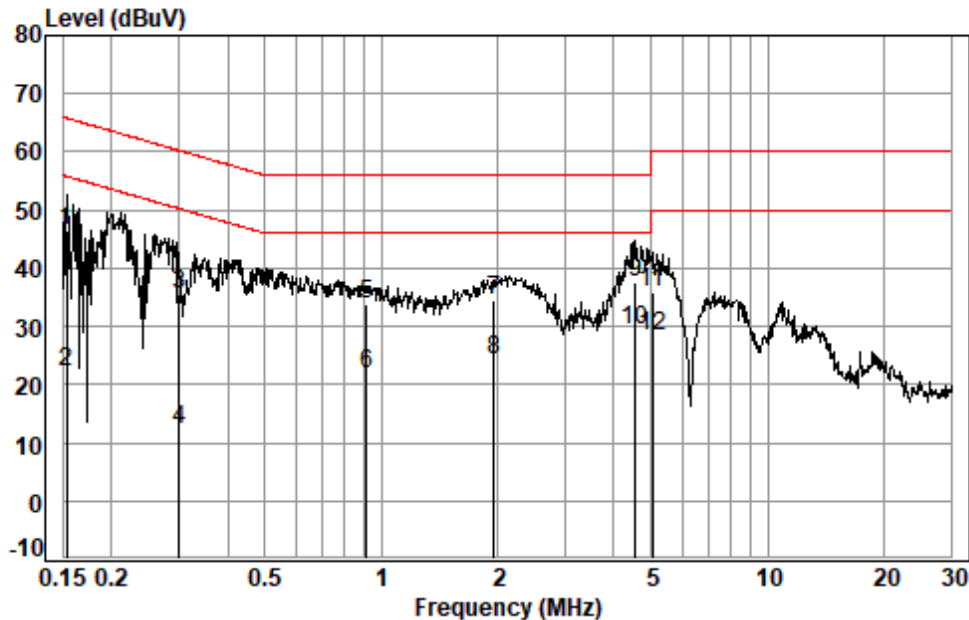
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360408

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Test Mode: 29; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03604WM
Test mode: 29

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1532	0.06	9.81	36.47	46.34	65.82	-19.48	QP
2	0.1532	0.06	9.81	12.27	22.14	55.82	-33.68	Average
3	0.3003	0.07	9.75	25.86	35.68	60.24	-24.56	QP
4	0.3003	0.07	9.75	2.58	12.40	50.24	-37.84	Average
5	0.9136	0.09	9.71	23.87	33.67	56.00	-22.33	QP
6	0.9136	0.09	9.71	11.94	21.74	46.00	-24.26	Average
7	1.9593	0.10	9.66	24.67	34.43	56.00	-21.57	QP
8	1.9593	0.10	9.66	14.59	24.35	46.00	-21.65	Average
9 *	4.5494	0.12	9.64	27.94	37.70	56.00	-18.30	QP
10 *	4.5494	0.12	9.64	19.48	29.24	46.00	-16.76	Average
11	5.0312	0.12	9.64	26.26	36.02	60.00	-23.98	QP
12	5.0312	0.12	9.64	18.57	28.33	50.00	-21.67	Average



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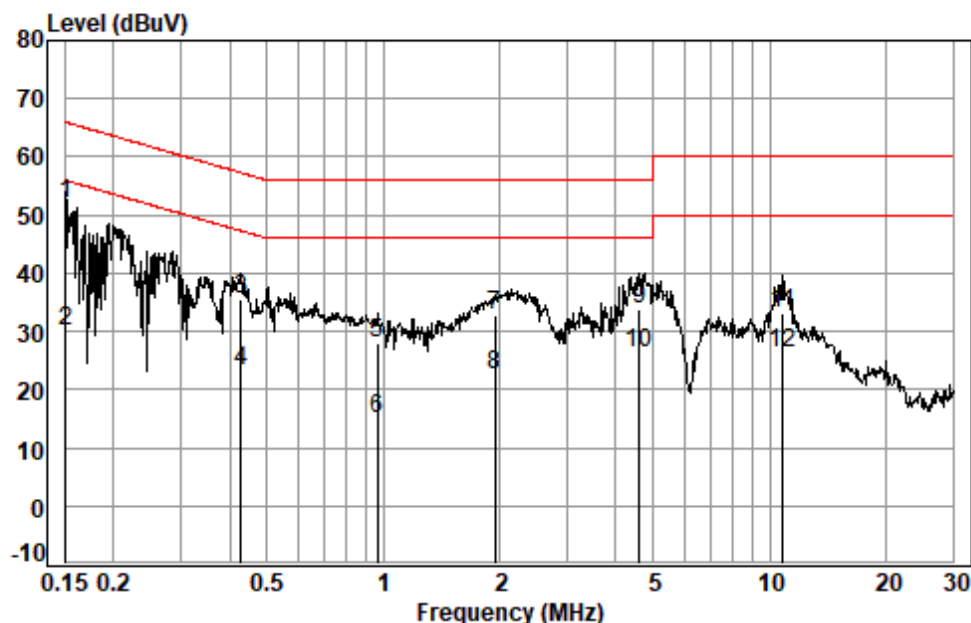
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Report No.: SZCR240900360408

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Test Mode: 29; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 03604WM

Test mode: 29

		Cable	LISN	Read	Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 *	0.1508	0.06	9.82	42.18	52.06	65.96	-13.90 QP
2	0.1508	0.06	9.82	20.02	29.90	55.96	-26.06 Average
3	0.4282	0.08	9.74	25.65	35.47	57.29	-21.82 QP
4	0.4282	0.08	9.74	13.32	23.14	47.29	-24.15 Average
5	0.9684	0.09	9.73	18.13	27.95	56.00	-28.05 QP
6	0.9684	0.09	9.73	5.24	15.06	46.00	-30.94 Average
7	1.9489	0.10	9.69	22.98	32.77	56.00	-23.23 QP
8	1.9489	0.10	9.69	12.60	22.39	46.00	-23.61 Average
9	4.5979	0.12	9.66	23.89	33.67	56.00	-22.33 QP
10 *	4.5979	0.12	9.66	16.41	26.19	46.00	-19.81 Average
11	10.8474	0.21	10.03	22.99	33.23	60.00	-26.77 QP
12	10.8474	0.21	10.03	15.93	26.17	50.00	-23.83 Average



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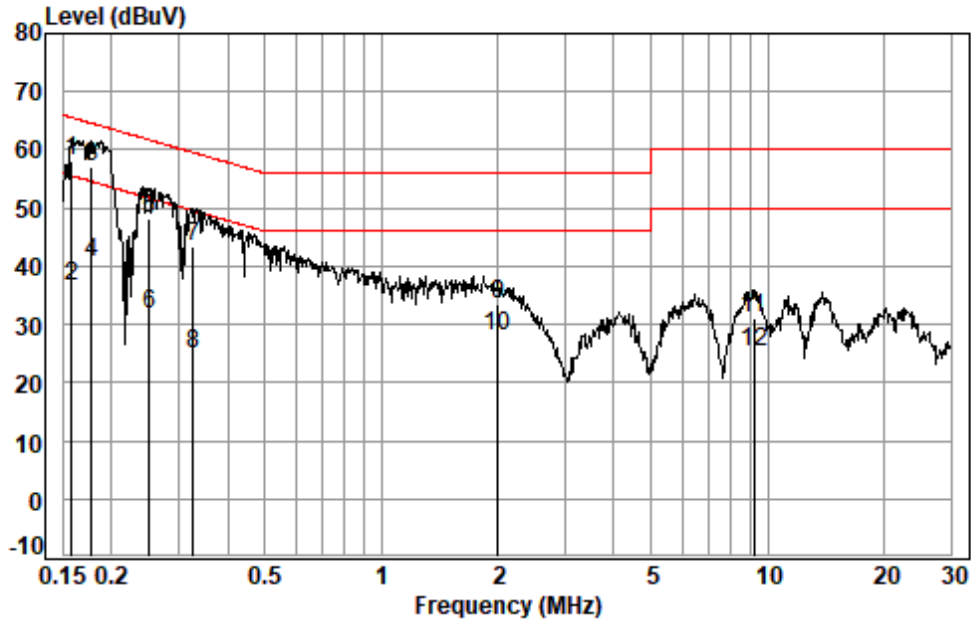
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360408

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Test Mode: 30; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03604WM
Test mode: 30

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1582	0.06	9.81	48.10	57.97	65.56	-7.59	QP
2	0.1582	0.06	9.81	26.64	36.51	55.56	-19.05	Average
3 *	0.1777	0.06	9.80	47.16	57.02	64.59	-7.57	QP
4 *	0.1777	0.06	9.80	30.81	40.67	54.59	-13.92	Average
5	0.2508	0.07	9.77	38.26	48.10	61.73	-13.63	QP
6	0.2508	0.07	9.77	21.78	31.62	51.73	-20.11	Average
7	0.3251	0.07	9.74	33.43	43.24	59.57	-16.33	QP
8	0.3251	0.07	9.74	15.20	25.01	49.57	-24.56	Average
9	2.0012	0.10	9.66	23.55	33.31	56.00	-22.69	QP
10	2.0012	0.10	9.66	18.21	27.97	46.00	-18.03	Average
11	9.2043	0.19	9.89	20.86	30.94	60.00	-29.06	QP
12	9.2043	0.19	9.89	15.18	25.26	50.00	-24.74	Average



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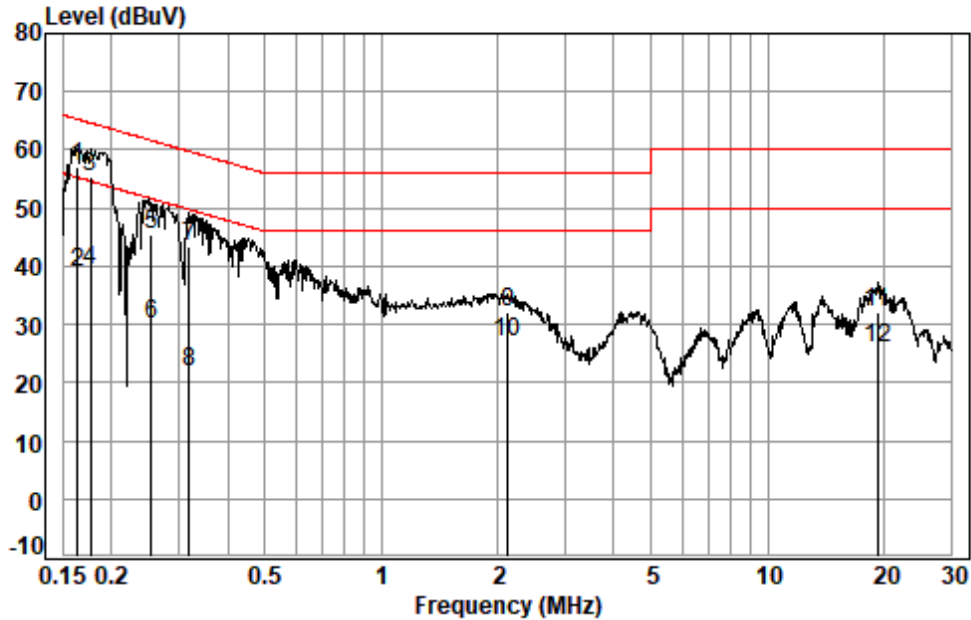
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360408

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Test Mode: 30; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03604WM
Test mode: 30

		Cable	LISN	Read	Limit	Over	
	Freq	Loss	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 *	0.1633	0.06	9.82	47.02	56.90	65.30	-8.40 QP
2	0.1633	0.06	9.82	29.05	38.93	55.30	-16.37 Average
3	0.1768	0.06	9.82	45.60	55.48	64.64	-9.16 QP
4 *	0.1768	0.06	9.82	29.47	39.35	54.64	-15.29 Average
5	0.2535	0.07	9.80	35.68	45.55	61.64	-16.09 QP
6	0.2535	0.07	9.80	20.24	30.11	51.64	-21.53 Average
7	0.3183	0.07	9.78	33.53	43.38	59.75	-16.37 QP
8	0.3183	0.07	9.78	11.94	21.79	49.75	-27.96 Average
9	2.1326	0.10	9.69	22.14	31.93	56.00	-24.07 QP
10	2.1326	0.10	9.69	17.08	26.87	46.00	-19.13 Average
11	19.2236	0.29	10.27	21.59	32.15	60.00	-27.85 QP
12	19.2236	0.29	10.27	15.37	25.93	50.00	-24.07 Average



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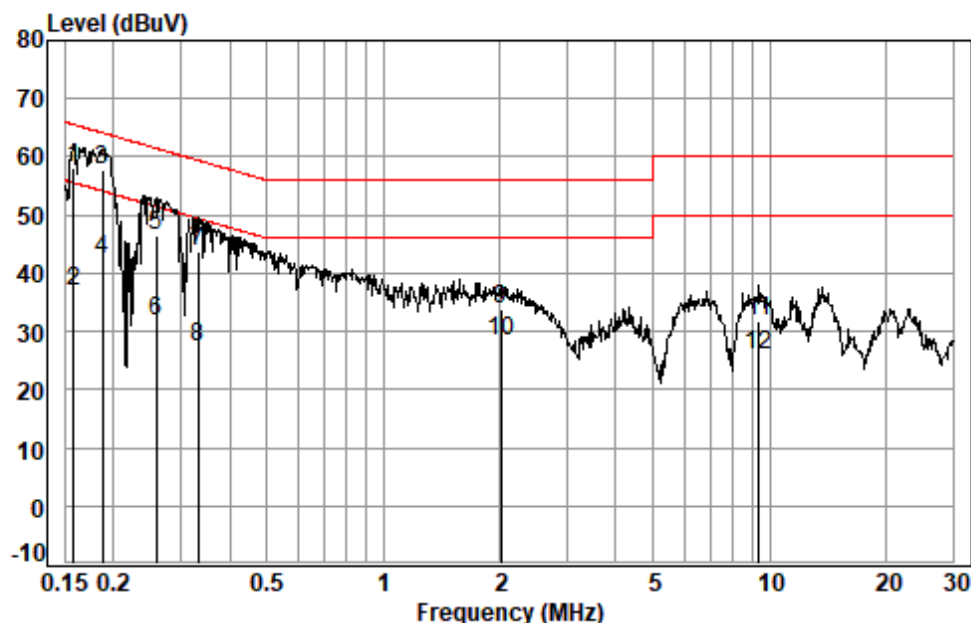
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900360408

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Test Mode: 31; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 03604WM

Test mode: 31

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1582	0.06	9.81	48.13	58.00	65.56	-7.56	QP
2	0.1582	0.06	9.81	26.96	36.83	55.56	-18.73	Average
3 *	0.1874	0.06	9.80	47.75	57.61	64.15	-6.54	QP
4 *	0.1874	0.06	9.80	32.38	42.24	54.15	-11.91	Average
5	0.2589	0.07	9.77	36.75	46.59	61.47	-14.88	QP
6	0.2589	0.07	9.77	21.99	31.83	51.47	-19.64	Average
7	0.3321	0.07	9.74	33.93	43.74	59.40	-15.66	QP
8	0.3321	0.07	9.74	17.60	27.41	49.40	-21.99	Average
9	2.0225	0.10	9.66	23.87	33.63	56.00	-22.37	QP
10	2.0225	0.10	9.66	18.44	28.20	46.00	-17.80	Average
11	9.4015	0.19	9.90	21.63	31.72	60.00	-28.28	QP
12	9.4015	0.19	9.90	15.79	25.88	50.00	-24.12	Average



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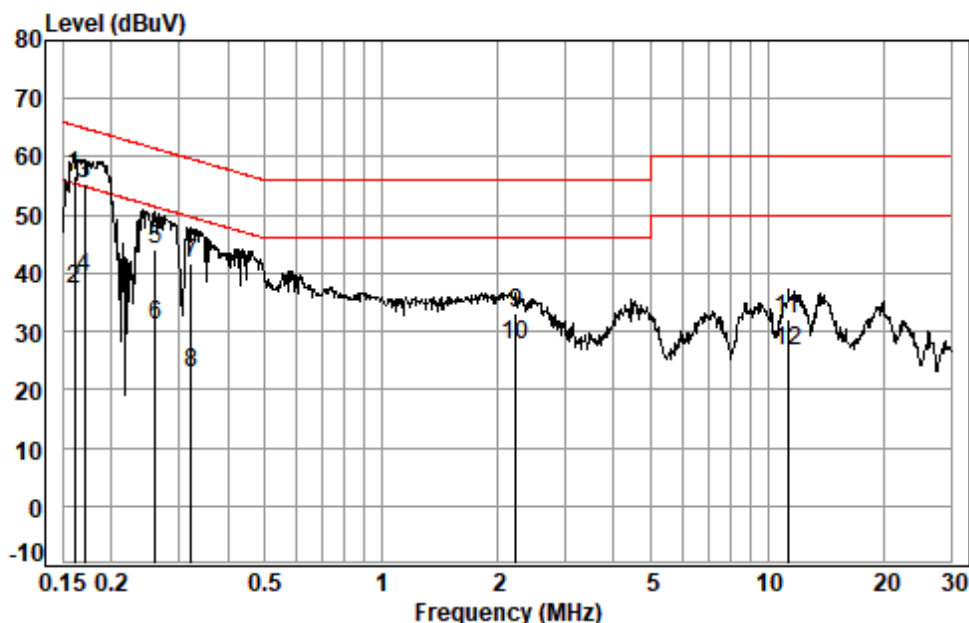
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Report No.: SZCR240900360408

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Test Mode: 31; Line: Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 03604WM

Test mode: 31

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1607	0.06	9.82	46.82	56.70	65.43	-8.73	QP
2	0.1607	0.06	9.82	27.47	37.35	55.43	-18.08	Average
3	0.1703	0.06	9.82	45.36	55.24	64.94	-9.70	QP
4 *	0.1703	0.06	9.82	29.48	39.36	54.94	-15.58	Average
5	0.2603	0.07	9.80	34.27	44.14	61.42	-17.28	QP
6	0.2603	0.07	9.80	21.06	30.93	51.42	-20.49	Average
7	0.3217	0.07	9.78	31.83	41.68	59.66	-17.98	QP
8	0.3217	0.07	9.78	13.02	22.87	49.66	-26.79	Average
9	2.2249	0.10	9.68	23.18	32.96	56.00	-23.04	QP
10	2.2249	0.10	9.68	17.77	27.55	46.00	-18.45	Average
11	11.3170	0.22	10.05	21.74	32.01	60.00	-27.99	QP
12	11.3170	0.22	10.05	16.50	26.77	50.00	-23.23	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

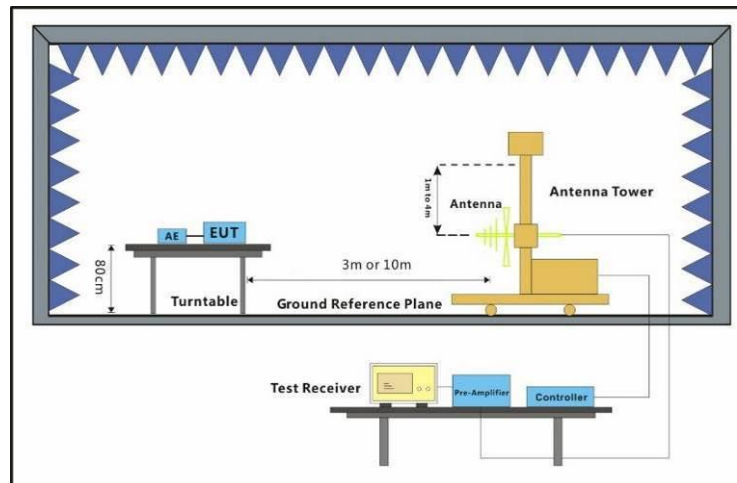
Pre-scan / Final test	Mode Code	Description
Final test	28	Transfer data between the EUT1 and the PC+USB Cable
Final test	29	Transfer data between the EUT2 and the PC+USB Cable
Final test	30	Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable+Adapter1/earphone
Final test	31	Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable+Adapter2/earphone
Pre-scan	32	Telecom Idle+EUT(worst)+NFC+BT+WLAN5G+USB cable+Adapter(worst)/earphone
Pre-scan	33	Telecom Idle+EUT(worst)+NFC+camera(Front)+USB cable+Adapter(worst)/earphone
Pre-scan	34	Telecom Idle+EUT(worst)+NFC+camera(Back)+USB cable+Adapter(worst)/earphone
Pre-scan	35	Telecom Idle+EUT(worst)+NFC+BT+WLAN2.4G+GNSS+OTG output
Pre-scan	36	GSM 850(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	37	WCDMA Band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	38	LTE band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	43	NR_SA_N5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone



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6.2.3 Test Setup Diagram



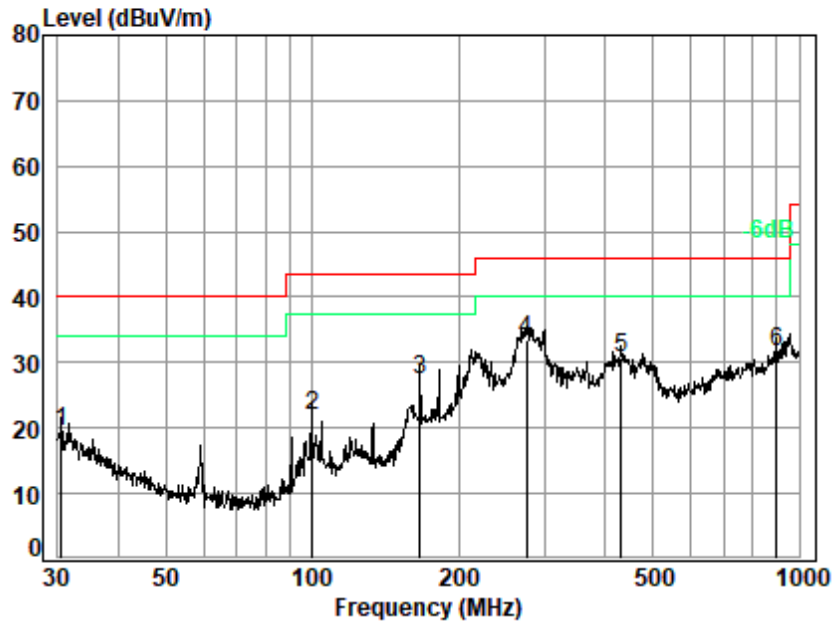
6.2.4 Measurement Procedure and Data

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



Test Mode: 28; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03604WM
Test Mode: 28

	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	30.531	20.95	0.68	27.79	25.71	19.55	40.00	-20.45 QP
2	99.878	12.29	1.22	27.59	35.95	21.87	43.50	-21.63 QP
3	166.651	13.15	1.62	27.31	40.05	27.51	43.50	-15.99 QP
4 q	275.157	17.06	2.11	26.85	41.14	33.46	46.00	-12.54 QP
5	431.032	20.95	2.69	27.28	34.30	30.66	46.00	-15.34 QP
6	900.147	27.82	4.12	26.76	26.60	31.78	46.00	-14.22 QP



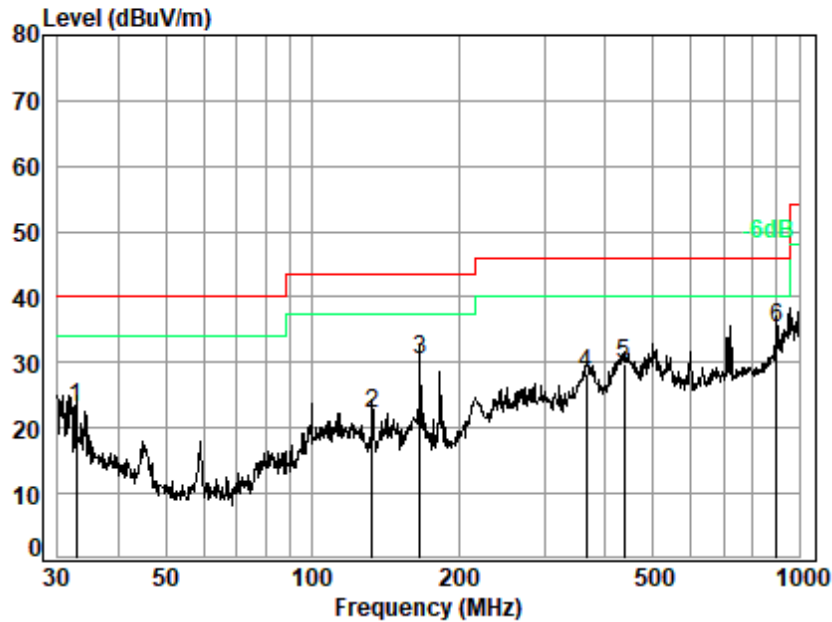
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Test Mode: 28; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03604WM
Test Mode: 28

	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	32.749	19.98	0.70	27.78	30.16	23.06	40.00	-16.94 QP
2	132.685	11.17	1.44	27.45	37.11	22.27	43.50	-21.23 QP
3	166.651	13.15	1.62	27.31	42.98	30.44	43.50	-13.06 QP
4	365.539	20.31	2.46	27.02	32.43	28.18	46.00	-17.82 QP
5	437.120	21.06	2.72	27.31	33.20	29.67	46.00	-16.33 QP
6 q	900.147	27.82	4.12	26.76	30.01	35.19	46.00	-10.81 QP



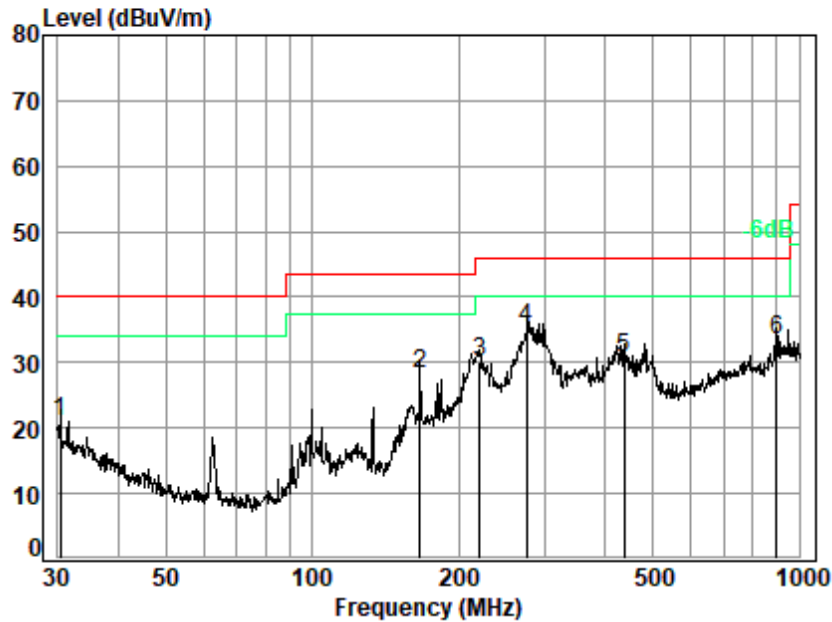
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Test Mode: 29; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03604WM
Test Mode: 29

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level	Limit	Over	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.424	21.00	0.68	27.79	27.01	20.90	40.00	-19.10 QP
2	166.068	13.16	1.62	27.31	40.78	28.25	43.50	-15.25 QP
3	220.617	15.22	1.87	27.08	40.00	30.01	46.00	-15.99 QP
4 q	276.124	17.03	2.11	26.85	42.87	35.16	46.00	-10.84 QP
5	437.120	21.06	2.72	27.31	34.28	30.75	46.00	-15.25 QP
6	900.147	27.82	4.12	26.76	28.23	33.41	46.00	-12.59 QP



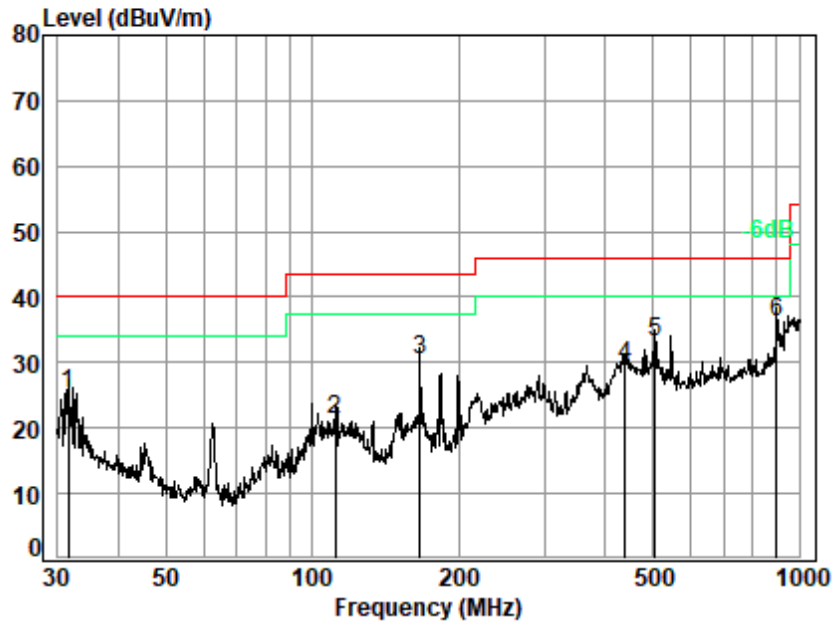
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Test Mode: 29; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03604WM
Test Mode: 29

	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	31.510	20.50	0.69	27.79	31.85	25.25	40.00	-14.75 QP
2	111.347	11.78	1.30	27.54	35.73	21.27	43.50	-22.23 QP
3	166.651	13.15	1.62	27.31	42.82	30.28	43.50	-13.22 QP
4	438.655	21.07	2.72	27.31	32.92	29.40	46.00	-16.60 QP
5	506.479	23.09	2.94	27.59	34.69	33.13	46.00	-12.87 QP
6 q	900.147	27.82	4.12	26.76	31.03	36.21	46.00	-9.79 QP



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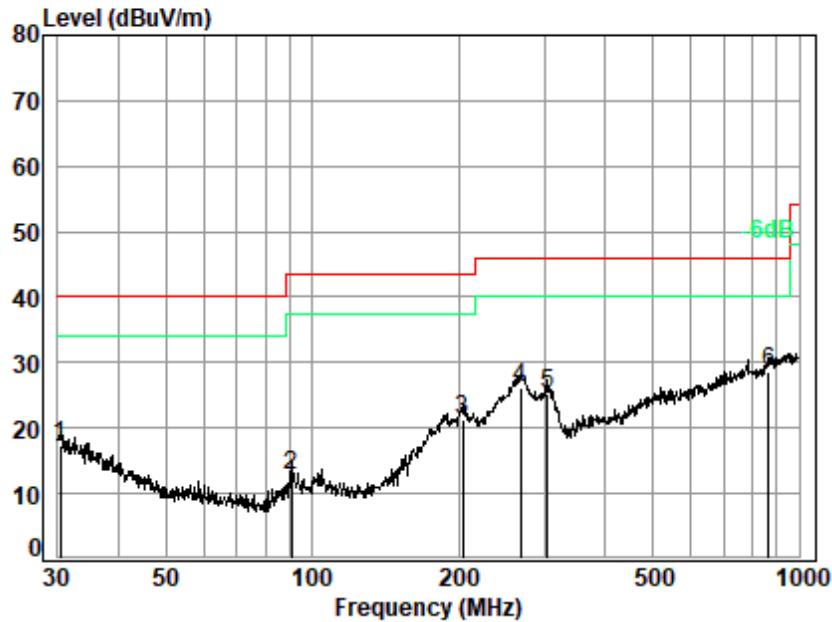
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Test Mode: 30; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03604WM
Test Mode: 30

	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	30.424	21.00	0.68	27.79	23.53	17.42	40.00	-22.58 QP
2	90.537	11.77	1.16	27.62	27.56	12.87	43.50	-30.63 QP
3	204.238	14.47	1.78	27.15	32.28	21.38	43.50	-22.12 QP
4	267.546	17.09	2.08	26.89	33.99	26.27	46.00	-19.73 QP
5	304.610	18.39	2.22	26.77	31.39	25.23	46.00	-20.77 QP
6 q	866.088	27.66	4.04	27.01	24.00	28.69	46.00	-17.31 QP



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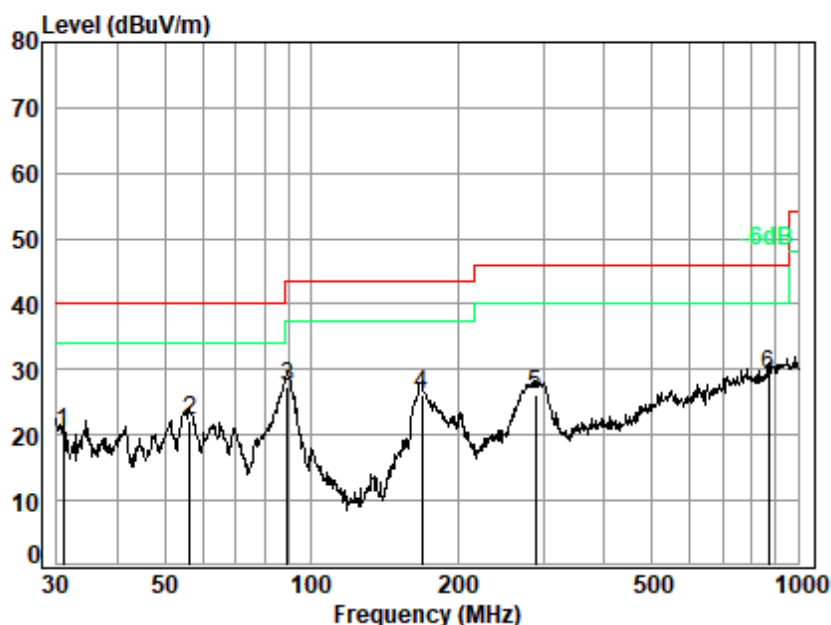
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Test Mode: 30; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03604WM
Test Mode: 30

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level	Limit	Over	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.962	20.76	0.68	27.79	26.72	20.37	40.00	-19.63 QP
2	56.197	11.83	0.92	27.72	37.14	22.17	40.00	-17.83 QP
3 q	89.276	11.65	1.16	27.62	42.17	27.36	43.50	-16.14 QP
4	168.414	13.19	1.63	27.30	38.70	26.22	43.50	-17.28 QP
5	289.002	17.01	2.16	26.80	33.87	26.24	46.00	-19.76 QP
6	869.130	27.65	4.04	26.99	24.47	29.17	46.00	-16.83 QP



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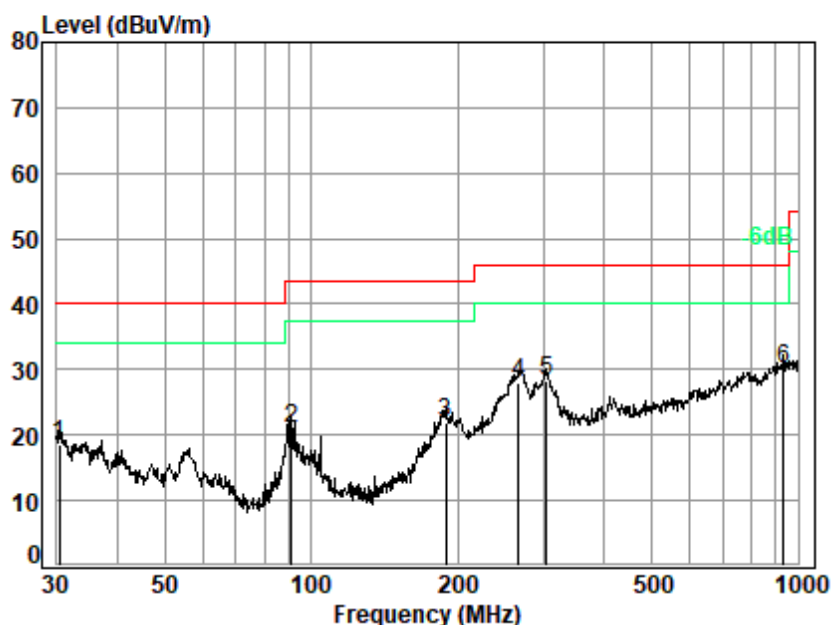
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Test Mode: 31; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03604WM

Test Mode: 31

	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	30.317	21.05	0.67	27.79	24.74	18.67	40.00	-21.33 QP
2	91.175	11.83	1.17	27.62	35.52	20.90	43.50	-22.60 QP
3	189.074	14.29	1.72	27.22	33.19	21.98	43.50	-21.52 QP
4	266.609	17.08	2.07	26.89	35.66	27.92	46.00	-18.08 QP
5	304.610	18.39	2.22	26.77	34.38	28.22	46.00	-17.78 QP
6 q	935.546	28.18	4.22	26.51	24.24	30.13	46.00	-15.87 QP



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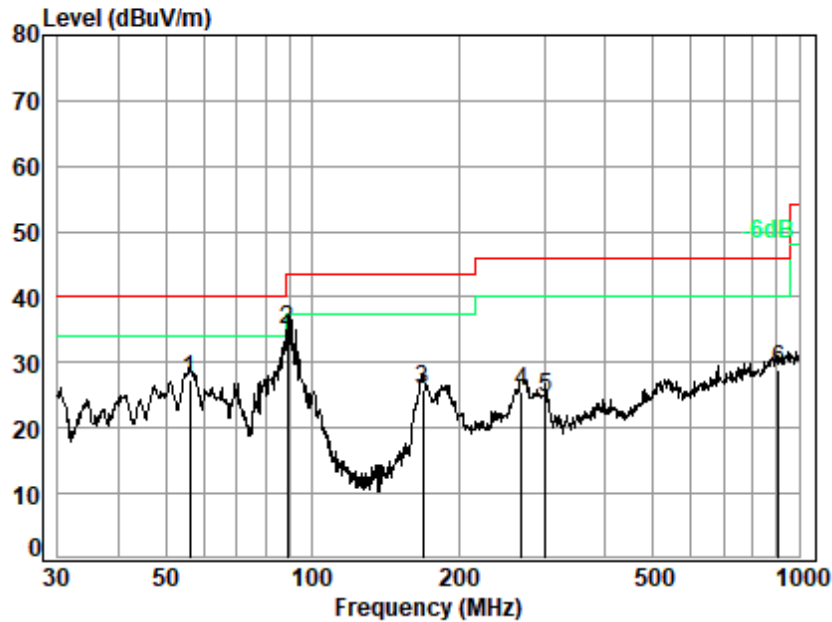
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Test Mode: 31; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03604WM
Test Mode: 31

	Ant	Cable	Preamp	Read	Limit	Over	
Freq	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	56.001	11.85	0.92	27.72	42.34	27.39	40.00 -12.61 QP
2	q 88.964	11.61	1.15	27.62	49.88	35.02	43.50 -8.48 QP
3	168.414	13.19	1.63	27.30	38.47	25.99	43.50 -17.51 QP
4	269.428	17.10	2.08	26.88	33.22	25.52	46.00 -20.48 QP
5	301.422	18.13	2.21	26.76	31.08	24.66	46.00 -21.34 QP
6	906.482	27.87	4.14	26.72	23.70	28.99	46.00 -17.01 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:

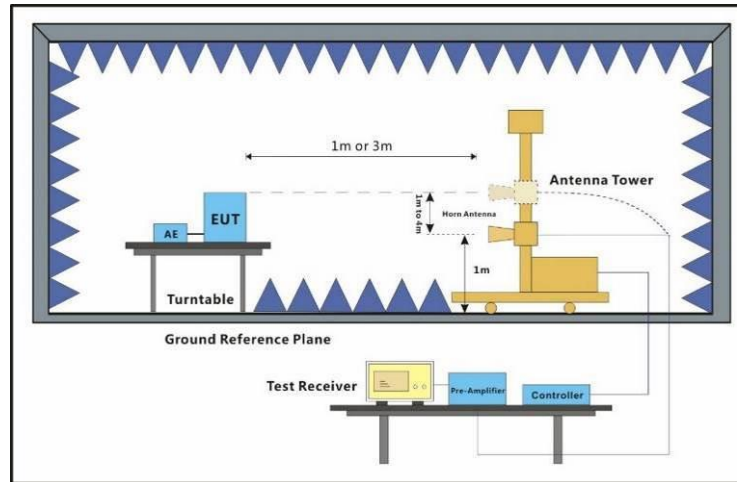
Temperature: 22.8 °C Humidity: 49.9 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	28	Transfer data between the EUT1 and the PC+USB Cable
Final test	29	Transfer data between the EUT2 and the PC+USB Cable
Final test	30	Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable+Adapter1/earphone
Final test	31	Telecom Idle+EUT(worst)+NFC+playing MP4+USB cable+Adapter2/earphone
Pre-scan	32	Telecom Idle+EUT(worst)+NFC+BT+WLAN5G+USB cable+Adapter(worst)/earphone
Pre-scan	33	Telecom Idle+EUT(worst)+NFC+camera(Front)+USB cable+Adapter(worst)/earphone
Pre-scan	34	Telecom Idle+EUT(worst)+NFC+camera(Back)+USB cable+Adapter(worst)/earphone
Pre-scan	35	Telecom Idle+EUT(worst)+NFC+BT+WLAN2.4G+GNSS+OTG output
Pre-scan	36	GSM 850(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	37	WCDMA Band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	38	LTE band 5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	43	NR_SA_N5(RX)+EUT(worst)+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/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: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

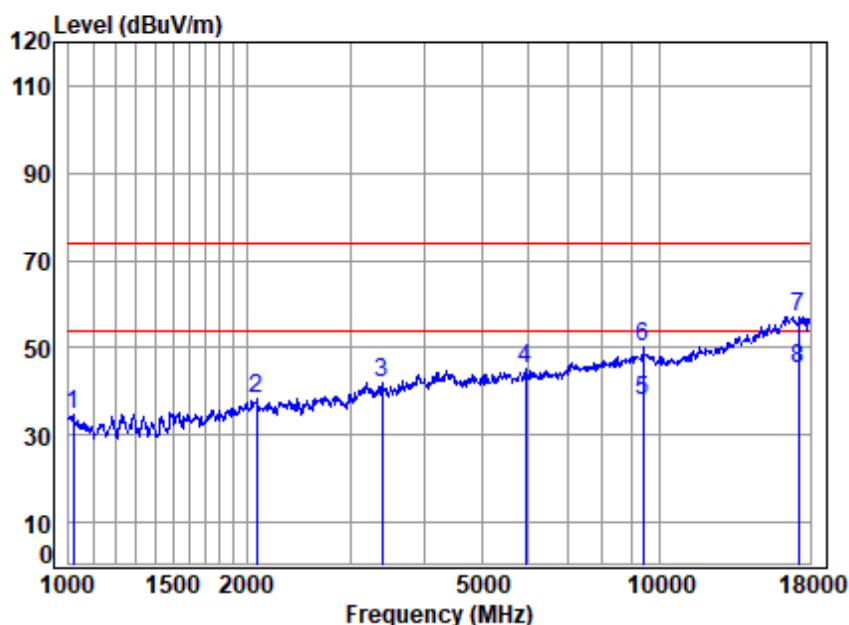
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Test Mode: 28; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 28

		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	1017.493	4.55	25.74	61.31	65.87	34.85	74.00	-39.15	Peak
2	2083.719	5.72	28.87	61.63	65.18	38.14	74.00	-35.86	Peak
3	3396.098	6.85	32.38	61.55	64.36	42.04	74.00	-31.96	Peak
4	5932.638	9.49	34.67	60.63	61.70	45.23	74.00	-28.77	Peak
5	9393.689	11.52	37.31	61.13	50.03	37.73	54.00	-16.27	Average
6	9393.689	11.52	37.31	61.13	62.33	50.03	74.00	-23.97	Peak
7	p17236.280	15.95	43.04	60.48	58.70	57.21	74.00	-16.79	Peak
8	q17236.280	15.95	43.04	60.48	46.46	44.97	54.00	-9.03	Average



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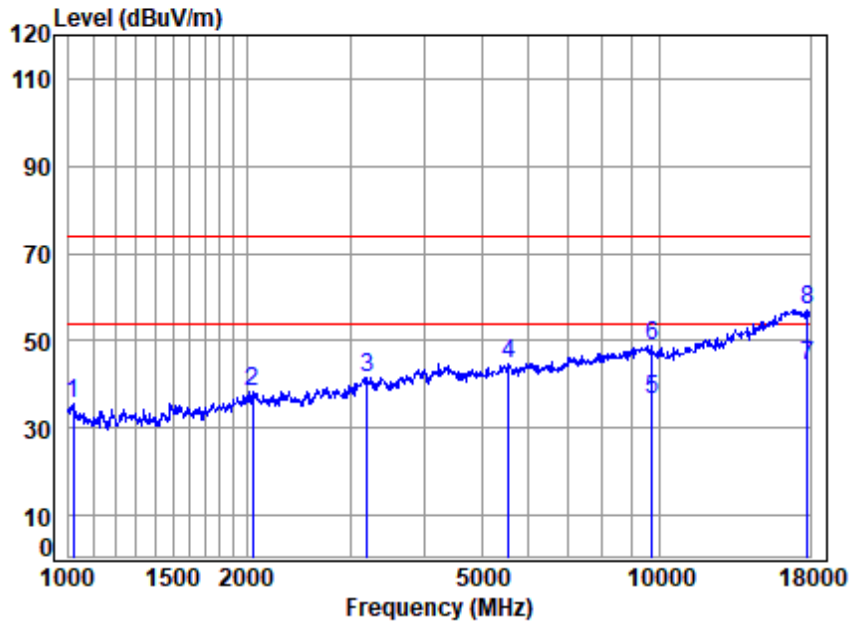
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Test Mode: 28; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 03604WM
Mode : 28

		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	1017.493	4.55	25.74	61.31	66.54	35.52	74.00	-38.48	Peak
2	2047.895	5.64	28.99	61.62	65.40	38.41	74.00	-35.59	Peak
3	3196.094	6.78	32.87	61.61	63.69	41.73	74.00	-32.27	Peak
4	5567.137	9.33	34.70	60.75	61.57	44.85	74.00	-29.15	Peak
5	9725.221	11.34	37.45	61.31	48.90	36.38	54.00	-17.62	Average
6	9725.221	11.34	37.45	61.31	61.51	48.99	74.00	-25.01	Peak
7	q17844.590	16.39	43.90	60.16	44.23	44.36	54.00	-9.64	Average
8	p17844.590	16.39	43.90	60.16	57.03	57.16	74.00	-16.84	Peak



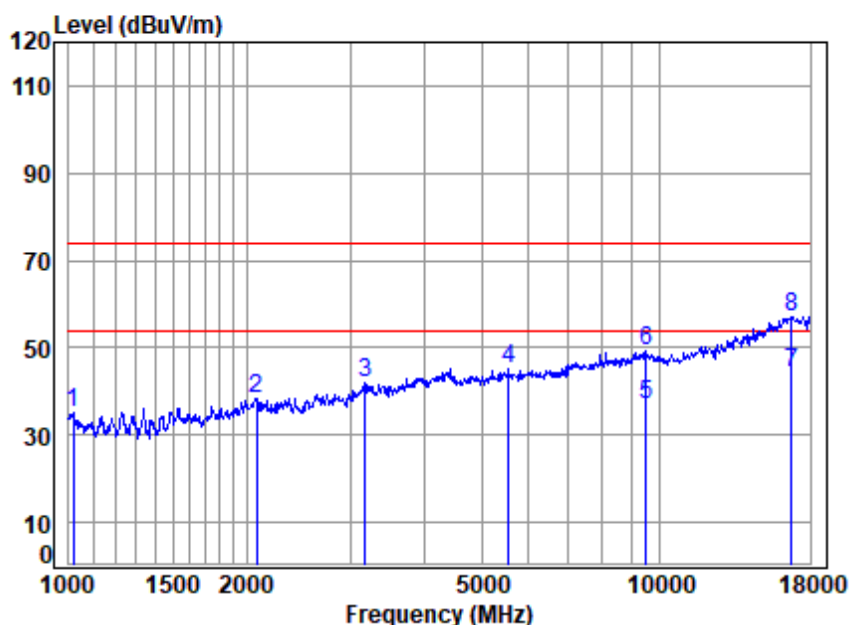
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Test Mode: 29; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 29

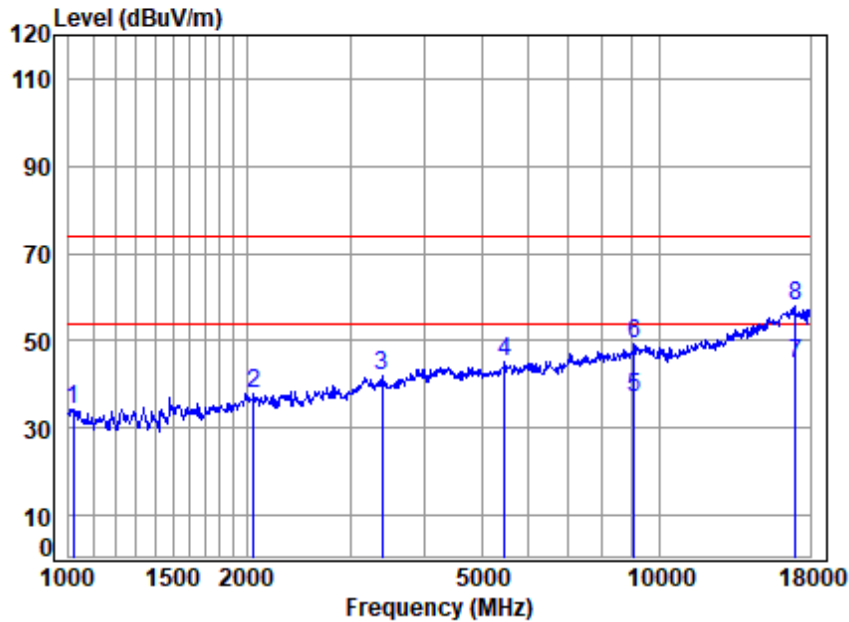
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1017.493	4.55	25.74	61.31	66.31	35.29	74.00	-38.71	Peak
2	2083.719	5.72	28.87	61.63	65.53	38.49	74.00	-35.51	Peak
3	3177.672	6.77	32.72	61.62	64.09	41.96	74.00	-32.04	Peak
4	5567.137	9.33	34.70	60.75	61.75	45.03	74.00	-28.97	Peak
5	9502.925	11.47	37.50	61.19	49.03	36.81	54.00	-17.19	Average
6	9502.925	11.47	37.50	61.19	61.30	49.08	74.00	-24.92	Peak
7	q16745.210	15.81	42.79	60.75	46.54	44.39	54.00	-9.61	Average
8	p16745.210	15.81	42.79	60.75	59.34	57.19	74.00	-16.81	Peak



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Test Mode: 29; Polarity: Vertical

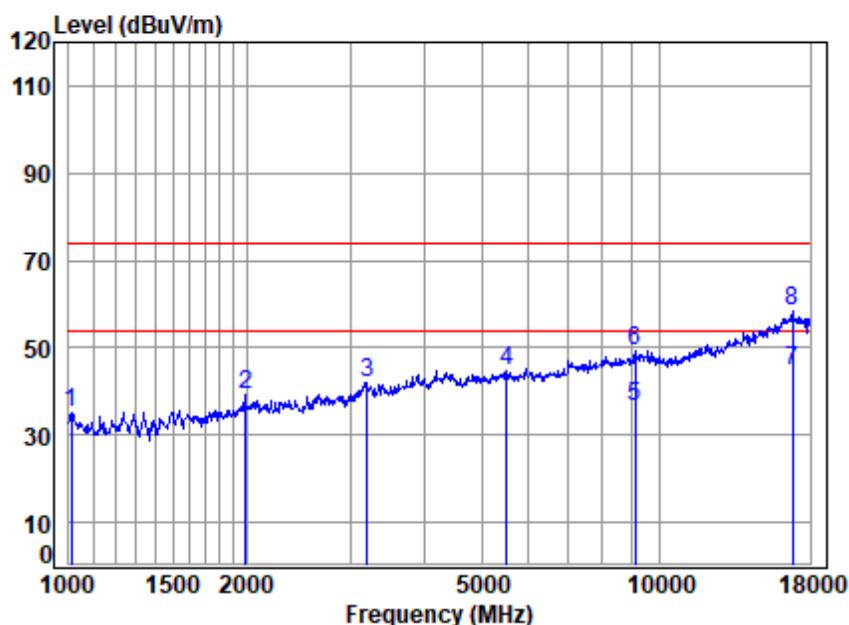


Site : chamber
Condition: 3m VERTICAL
Job No : 03604WM
Mode : 29

	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	1017.493	4.55	25.74	61.31	65.34	34.32	74.00	-39.68	Peak
2	2059.767	5.67	28.96	61.62	65.02	38.03	74.00	-35.97	Peak
3	3396.098	6.85	32.38	61.55	64.13	41.81	74.00	-32.19	Peak
4	5471.422	9.23	34.61	60.79	61.99	45.04	74.00	-28.96	Peak
5	9073.460	11.68	36.95	60.94	49.32	37.01	54.00	-16.99	Average
6	9073.460	11.68	36.95	60.94	61.45	49.14	74.00	-24.86	Peak
7	16988.970	15.69	43.11	60.62	46.39	44.57	54.00	-9.43	Average
8	16988.970	15.69	43.11	60.62	59.59	57.77	74.00	-16.23	Peak



Test Mode: 30; Polarity: Horizontal

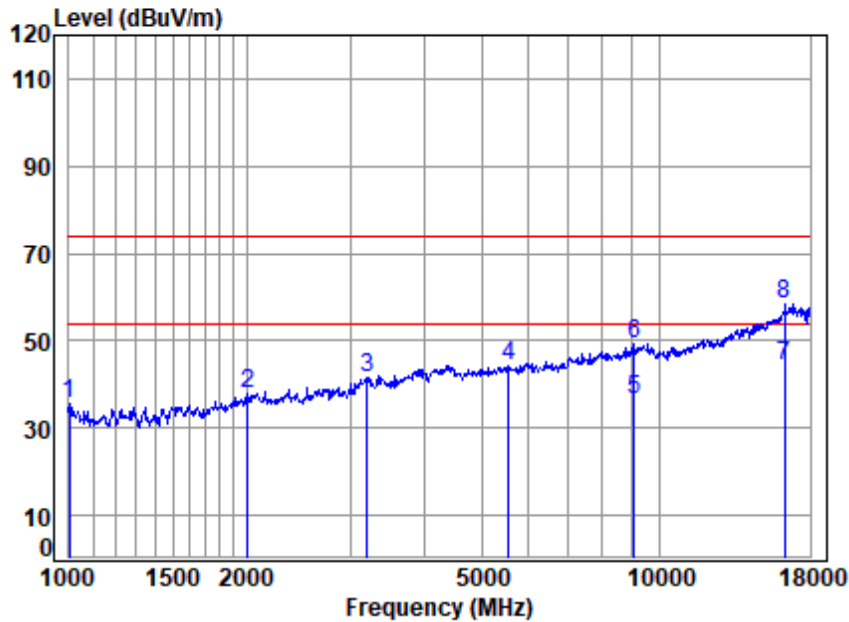


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 30

		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	1011.629	4.55	25.93	61.31	65.92	35.09	74.00	-38.91 Peak
2	1989.550	5.52	28.61	61.62	66.64	39.15	74.00	-34.85 Peak
3	3196.094	6.78	32.87	61.61	63.81	41.85	74.00	-32.15 Peak
4	5519.072	9.31	34.58	60.77	61.46	44.58	74.00	-29.42 Peak
5	9099.724	11.67	37.00	60.96	48.86	36.57	54.00	-17.43 Average
6	9099.724	11.67	37.00	60.96	61.50	49.21	74.00	-24.79 Peak
7	16793.680	15.78	42.89	60.73	46.59	44.53	54.00	-9.47 Average
8	16793.680	15.78	42.89	60.73	60.35	58.29	74.00	-15.71 Peak



Test Mode: 30; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 03604WM
Mode : 30

		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	1002.895	4.55	26.21	61.30	66.06	35.52	74.00	-38.48	Peak
2	2012.686	5.57	28.85	61.62	65.25	38.05	74.00	-35.95	Peak
3	3205.345	6.78	32.81	61.61	63.48	41.46	74.00	-32.54	Peak
4	5551.069	9.32	34.70	60.76	61.14	44.40	74.00	-29.60	Peak
5	9073.460	11.68	36.95	60.94	48.88	36.57	54.00	-17.43	Average
6	9073.460	11.68	36.95	60.94	61.58	49.27	74.00	-24.73	Peak
7	q16315.230	15.68	42.00	61.00	47.36	44.04	54.00	-9.96	Average
8	p16315.230	15.68	42.00	61.00	61.83	58.51	74.00	-15.49	Peak



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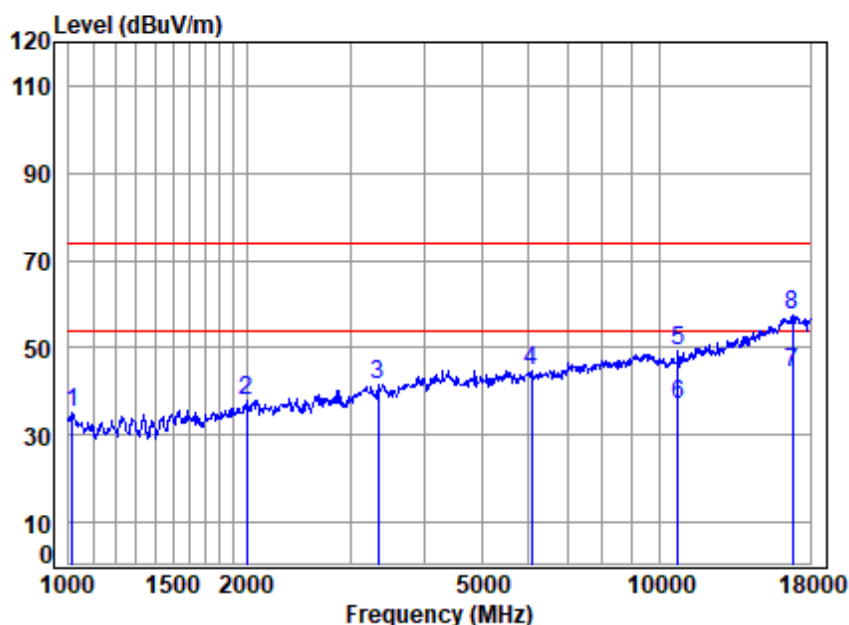
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 31; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03604WM
Mode : 31

	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	1014.557	4.55	25.83	61.31	65.86	34.93	74.00	-39.07	Peak
2	2001.084	5.54	28.80	61.62	65.35	38.07	74.00	-35.93	Peak
3	3347.371	6.84	32.05	61.57	64.22	41.54	74.00	-32.46	Peak
4	6071.417	9.46	35.04	60.60	60.99	44.89	74.00	-29.11	Peak
5	10760.540	12.14	37.16	61.42	61.28	49.16	74.00	-24.84	Peak
6	10760.540	12.14	37.16	61.42	49.10	36.98	54.00	-17.02	Average
7	q16793.680	15.78	42.89	60.73	46.45	44.39	54.00	-9.61	Average
8	p16793.680	15.78	42.89	60.73	59.34	57.28	74.00	-16.72	Peak



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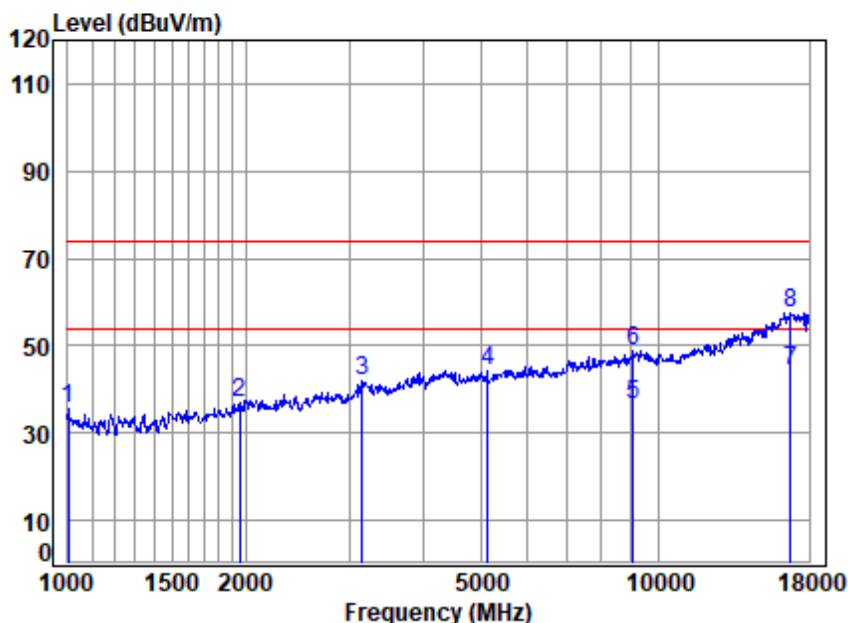
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SZEMC-TRF-01 Rev. A/1

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Test Mode: 31; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 03604WM
Mode : 31

	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	1002.895	4.55	26.21	61.30	65.91	35.37	74.00	-38.63	Peak
2	1955.344	5.46	28.00	61.61	65.01	36.86	74.00	-37.14	Peak
3	3150.237	6.76	32.50	61.63	64.21	41.84	74.00	-32.16	Peak
4	5134.335	8.42	33.93	60.91	62.73	44.17	74.00	-29.83	Peak
5	9073.460	11.68	36.95	60.94	48.89	36.58	54.00	-17.42	Average
6	9073.460	11.68	36.95	60.94	61.27	48.96	74.00	-25.04	Peak
7	q16745.210	15.81	42.79	60.75	46.60	44.45	54.00	-9.55	Average
8	p16745.210	15.81	42.79	60.75	59.66	57.51	74.00	-16.49	Peak



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7 Test Setup Photo

Please refer to SZCR2409003604 Appendix_Setup Photo

8 EUT Constructional Details (EUT Photos)

Please refer to SZCR2409003604 Appendix_ External Photo and Internal Photo.

- End of the Report -

