

TEST REPORT

Application No.: SZCR2410003917WM
Applicant: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address of Applicant: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Manufacturer: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address of Manufacturer: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Equipment Under Test (EUT):
EUT Name: Mobile Phone
Model No.: RMX5056
Trade Mark: realme
FCC ID: 2AUYFRMX5056
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2024-10-23
Date of Test: 2024-11-02 to 2024-11-05
Date of Issue: 2024-12-10

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



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Shenzhen Branch EMC Laboratory

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SZEMC-TRF-01 Rev. A/1

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-12-10		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	/	/
Battery	BLPB75	Dongguan NVT Technology Co., Ltd	

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:	19	Transfer data between the EUT and the PC+USB Cable
	20	Telecom Idle+EUT+NFC+playing MP4+USB cable+Adapter1/earphone
	21	Telecom Idle+EUT+NFC+playing MP4+USB cable+Adapter2/earphone
	22	Telecom Idle+EUT+NFC+BT+WLAN5G+USB cable+Adapter(worst)/earphone
	23	Telecom Idle+EUT+NFC+camera(Front)+USB cable+Adapter(worst)/earphone
	24	Telecom Idle+EUT+NFC+camera(Back)+USB cable+Adapter(worst)/earphone
	25	Telecom Idle+EUT+NFC+BT+WLAN2.4G+GNSS+OTG output
	26	GSM 850(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
	27	WCDMA Band 5(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
	28	LTE band 5(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
	29	LTE band 12(RX)+EUT+NFC+BT+WLAN2.4G+USB



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	cable+Adapter(worst)/earphone
30	LTE band 13(RX)+EUT+NFC+BT+WLAN2.4G+USB
	cable+Adapter(worst)/earphone
31	LTE band 17(RX)+EUT+NFC+BT+WLAN2.4G+USB
	cable+Adapter(worst)/earphone
32	LTE band 26(RX)+EUT+NFC+BT+WLAN2.4G+USB
	cable+Adapter(worst)/earphone
33	LTE band 71(RX)+EUT+NFC+BT+WLAN2.4G+USB
	cable+Adapter(worst)/earphone
34	NR_SA_N5(RX)+EUT+NFC+BT+WLAN2.4G+USB
	cable+Adapter(worst)/earphone
35	NR_SA_N26(RX)+EUT+NFC+BT+WLAN2.4G+USB
	cable+Adapter(worst)/earphone
36	NR_SA_N71(RX)+EUT+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 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



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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: 21.1 °C

Humidity: 44.1 % RH

Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

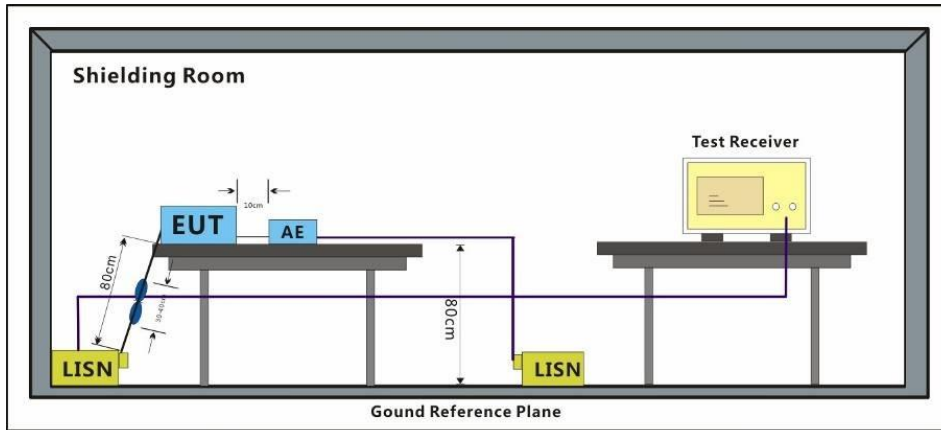
Pre-scan / Final test	Mode Code	Description
Final test	19	Transfer data between the EUT and the PC+USB Cable
Final test	20	Telecom Idle+EUT+NFC+playing MP4+USB cable+Adapter1/earphone
Final test	21	Telecom Idle+EUT+NFC+playing MP4+USB cable+Adapter2/earphone
Pre-scan	22	Telecom Idle+EUT+NFC+BT+WLAN5G+USB cable+Adapter(worst)/earphone
Pre-scan	23	Telecom Idle+EUT+NFC+camera(Front)+USB cable+Adapter(worst)/earphone
Pre-scan	24	Telecom Idle+EUT+NFC+camera(Back)+USB cable+Adapter(worst)/earphone
Pre-scan	25	Telecom Idle+EUT+NFC+BT+WLAN2.4G+GNSS+OTG output
Pre-scan	26	GSM 850(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	27	WCDMA Band 5(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	28	LTE band 5(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	34	NR_SA_N5(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone



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6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

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

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

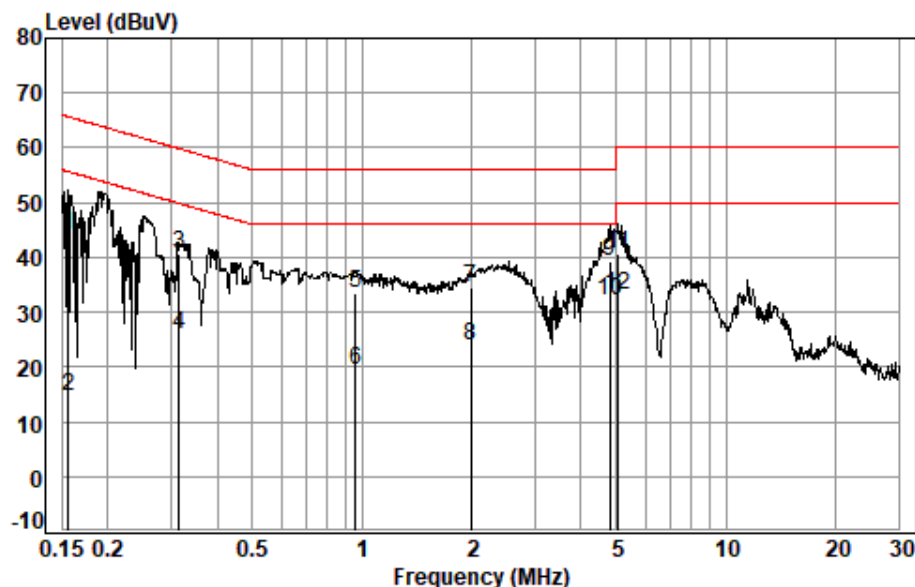
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Test Mode: 19; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03917WM
Test mode: 19

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.06	9.81	34.12	43.99	65.69	-21.70	QP
2	0.1557	0.06	9.81	4.87	14.74	55.69	-40.95	Average
3	0.3149	0.07	9.75	30.97	40.79	59.84	-19.05	QP
4	0.3149	0.07	9.75	16.00	25.82	49.84	-24.02	Average
5	0.9582	0.09	9.71	23.50	33.30	56.00	-22.70	QP
6	0.9582	0.09	9.71	9.80	19.60	46.00	-26.40	Average
7	1.9906	0.10	9.66	24.74	34.50	56.00	-21.50	QP
8	1.9906	0.10	9.66	14.21	23.97	46.00	-22.03	Average
9 *	4.7969	0.12	9.64	29.55	39.31	56.00	-16.69	QP
10 *	4.7969	0.12	9.64	22.20	31.96	46.00	-14.04	Average
11	5.0580	0.12	9.65	30.99	40.76	60.00	-19.24	QP
12	5.0580	0.12	9.65	23.28	33.05	50.00	-16.95	Average



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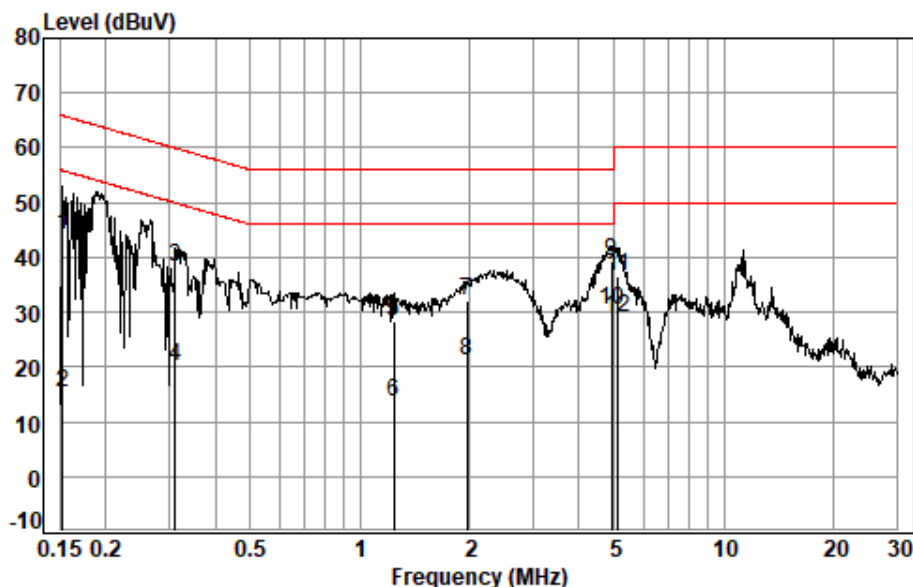
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Test Mode: 19; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03917WM
Test mode: 19

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.06	9.82	34.17	44.05	65.87	-21.82	QP
2	0.1524	0.06	9.82	5.40	15.28	55.87	-40.59	Average
3	0.3116	0.07	9.78	28.44	38.29	59.93	-21.64	QP
4	0.3116	0.07	9.78	10.41	20.26	49.93	-29.67	Average
5	1.2422	0.09	9.72	18.67	28.48	56.00	-27.52	QP
6	1.2422	0.09	9.72	3.82	13.63	46.00	-32.37	Average
7	1.9697	0.10	9.69	22.20	31.99	56.00	-24.01	QP
8	1.9697	0.10	9.69	11.29	21.08	46.00	-24.92	Average
9 *	4.9257	0.12	9.66	29.38	39.16	56.00	-16.84	QP
10 *	4.9257	0.12	9.66	20.50	30.28	46.00	-15.72	Average
11	5.1118	0.12	9.67	26.77	36.56	60.00	-23.44	QP
12	5.1118	0.12	9.67	19.36	29.15	50.00	-20.85	Average



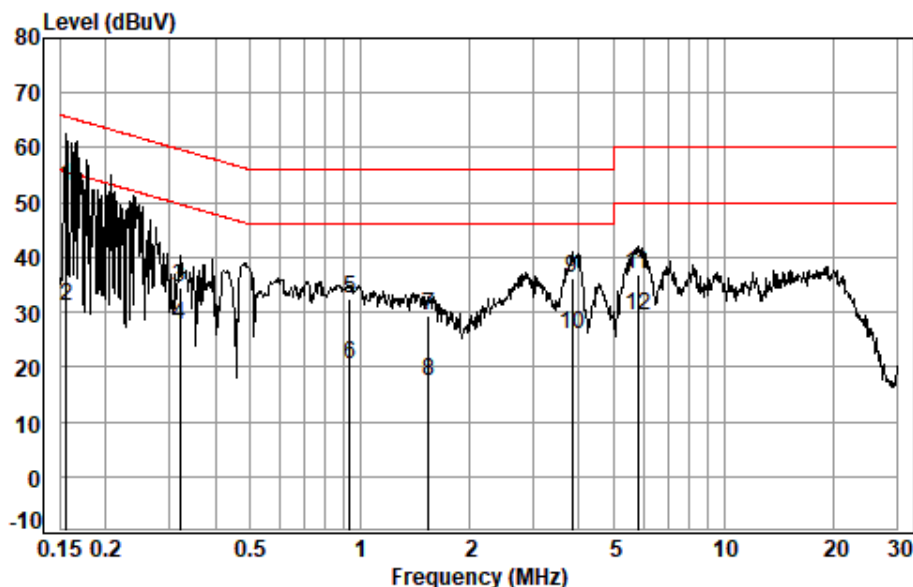
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Test Mode: 20; Line: Live line



Site : Shielding Room

Condition: Line

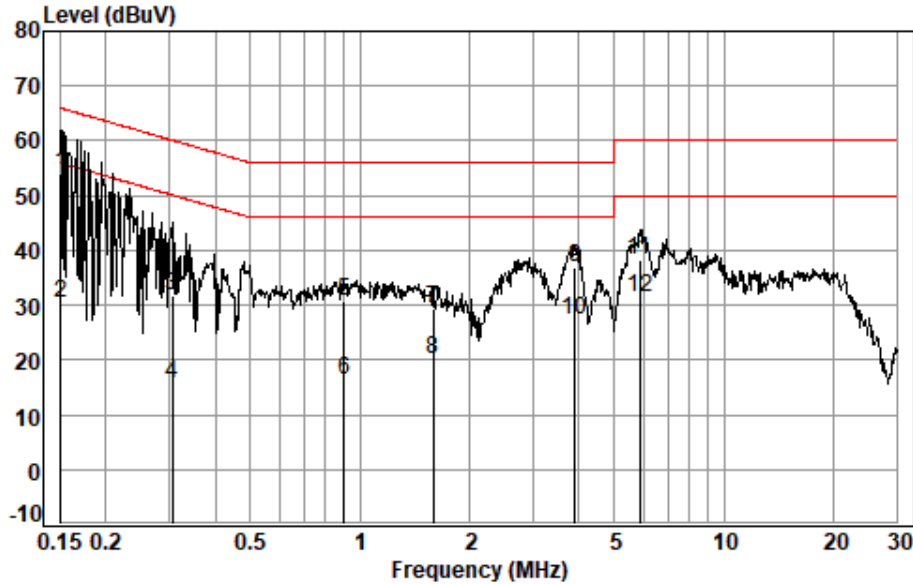
Job No. : 03917WM

Test mode: 20

	Freq	Cable	LISN	Read	Limit	Over	
	MHz	Loss	Factor	Level	Line	Limit	Remark
		dB	dB	dBuV	dBuV	dB	
1 *	0.1565	0.06	9.81	43.26	53.13	65.65	-12.52 QP
2	0.1565	0.06	9.81	21.14	31.01	55.65	-24.64 Average
3	0.3200	0.07	9.74	24.57	34.38	59.71	-25.33 QP
4	0.3200	0.07	9.74	17.69	27.50	49.71	-22.21 Average
5	0.9381	0.09	9.71	22.51	32.31	56.00	-23.69 QP
6	0.9381	0.09	9.71	10.62	20.42	46.00	-25.58 Average
7	1.5436	0.10	9.68	19.48	29.26	56.00	-26.74 QP
8	1.5436	0.10	9.68	7.76	17.54	46.00	-28.46 Average
9	3.8399	0.12	9.65	26.44	36.21	56.00	-19.79 QP
10 *	3.8399	0.12	9.65	16.14	25.91	46.00	-20.09 Average
11	5.8050	0.14	9.73	26.90	36.77	60.00	-23.23 QP
12	5.8050	0.14	9.73	19.33	29.20	50.00	-20.80 Average



Test Mode: 20; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03917WM
Test mode: 20

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.1508	0.06	9.82	44.09	53.97	65.96	-11.99	QP
2	0.1508	0.06	9.82	20.63	30.51	55.96	-25.45	Average
3	0.3051	0.07	9.79	21.87	31.73	60.10	-28.37	QP
4	0.3051	0.07	9.79	5.74	15.60	50.10	-34.50	Average
5	0.9039	0.09	9.73	21.04	30.86	56.00	-25.14	QP
6	0.9039	0.09	9.73	6.42	16.24	46.00	-29.76	Average
7	1.5935	0.10	9.70	19.41	29.21	56.00	-26.79	QP
8	1.5935	0.10	9.70	10.47	20.27	46.00	-25.73	Average
9	3.9014	0.12	9.66	27.22	37.00	56.00	-19.00	QP
10	3.9014	0.12	9.66	17.68	27.46	46.00	-18.54	Average
11	5.8668	0.14	9.74	28.42	38.30	60.00	-21.70	QP
12 *	5.8668	0.14	9.74	21.61	31.49	50.00	-18.51	Average



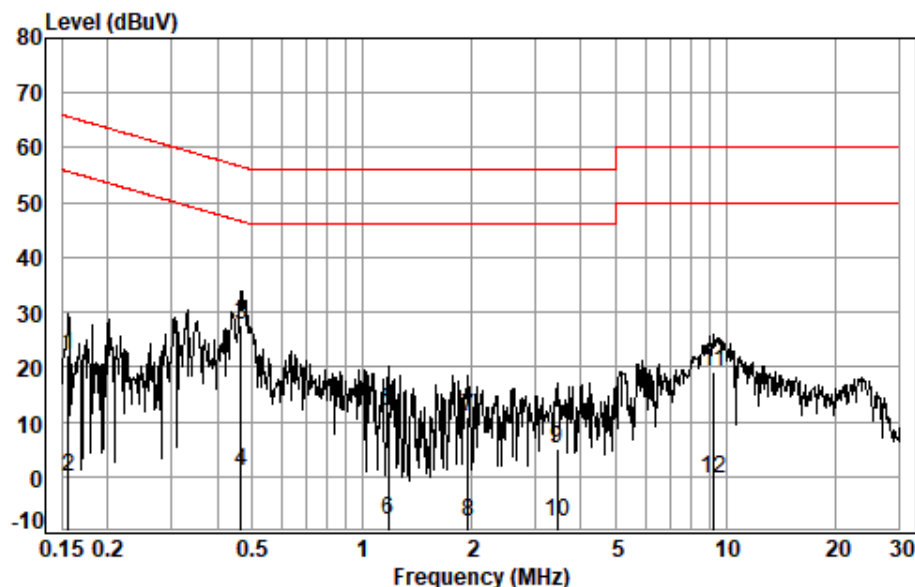
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Test Mode: 21; Line: Live line



Site : Shielding Room

Condition: Line

Job No. : 03917WM

Test mode: 21

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1557	0.06	9.81	12.32	22.19	65.69	-43.50	QP
2	0.1557	0.06	9.81	-10.01	-0.14	55.69	-55.83	Average
3 *	0.4661	0.08	9.72	17.73	27.53	56.58	-29.05	QP
4 *	0.4661	0.08	9.72	-8.99	0.81	46.58	-45.77	Average
5	1.1844	0.09	9.70	2.01	11.80	56.00	-44.20	QP
6	1.1844	0.09	9.70	-17.66	-7.87	46.00	-53.87	Average
7	1.9593	0.10	9.66	1.09	10.85	56.00	-45.15	QP
8	1.9593	0.10	9.66	-18.16	-8.40	46.00	-54.40	Average
9	3.4356	0.11	9.65	-4.83	4.93	56.00	-51.07	QP
10	3.4356	0.11	9.65	-18.21	-8.45	46.00	-54.45	Average
11	9.3024	0.19	9.90	9.01	19.10	60.00	-40.90	QP
12	9.3024	0.19	9.90	-10.47	-0.38	50.00	-50.38	Average



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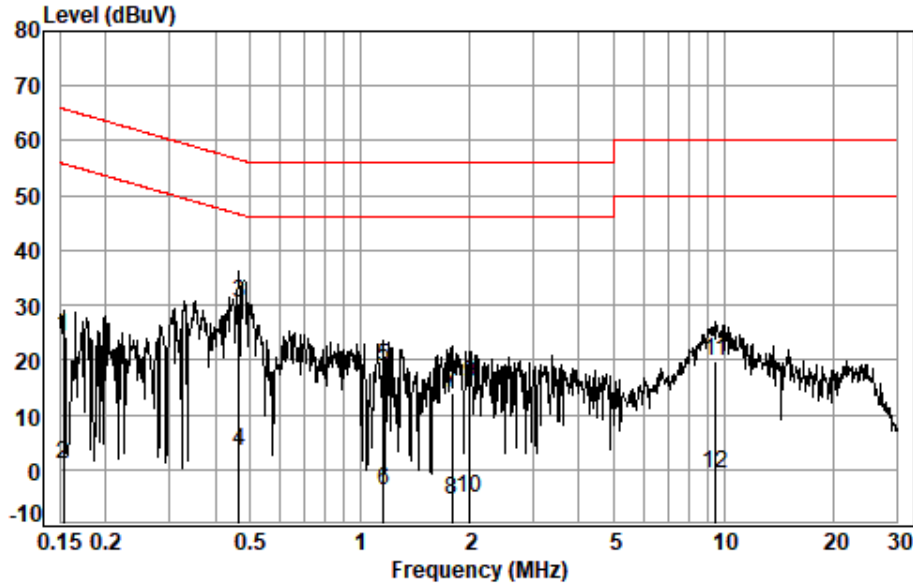
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Test Mode: 21; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03917WM
Test mode: 21

	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	9.82	14.45	24.33	65.82	-41.49	QP
2	0.1532	0.06	9.82	-8.86	1.02	55.82	-54.80	Average
3 *	0.4661	0.08	9.73	20.41	30.22	56.58	-26.36	QP
4 *	0.4661	0.08	9.73	-6.56	3.25	46.58	-43.33	Average
5	1.1595	0.09	9.72	8.96	18.77	56.00	-37.23	QP
6	1.1595	0.09	9.72	-13.76	-3.95	46.00	-49.95	Average
7	1.7905	0.10	9.70	4.19	13.99	56.00	-42.01	QP
8	1.7905	0.10	9.70	-15.42	-5.62	46.00	-51.62	Average
9	2.0012	0.10	9.69	5.76	15.55	56.00	-40.45	QP
10	2.0012	0.10	9.69	-15.13	-5.34	46.00	-51.34	Average
11	9.5016	0.19	9.97	9.56	19.72	60.00	-40.28	QP
12	9.5016	0.19	9.97	-10.97	-0.81	50.00	-50.81	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: 23.2 °C

Humidity: 45.8 % RH

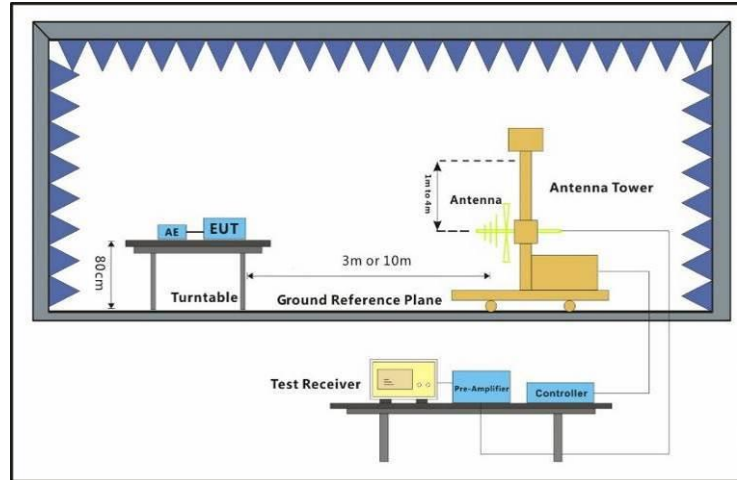
Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	19	Transfer data between the EUT and the PC+USB Cable
Final test	20	Telecom Idle+EUT+NFC+playing MP4+USB cable+Adapter1/earphone
Final test	21	Telecom Idle+EUT+NFC+playing MP4+USB cable+Adapter2/earphone
Pre-scan	22	Telecom Idle+EUT+NFC+BT+WLAN5G+USB cable+Adapter(worst)/earphone
Pre-scan	23	Telecom Idle+EUT+NFC+camera(Front)+USB cable+Adapter(worst)/earphone
Pre-scan	24	Telecom Idle+EUT+NFC+camera(Back)+USB cable+Adapter(worst)/earphone
Pre-scan	25	Telecom Idle+EUT+NFC+BT+WLAN2.4G+GNSS+OTG output
Pre-scan	26	GSM 850(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	27	WCDMA Band 5(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	28	LTE band 5(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	34	NR_SA_N5(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone



6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

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

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

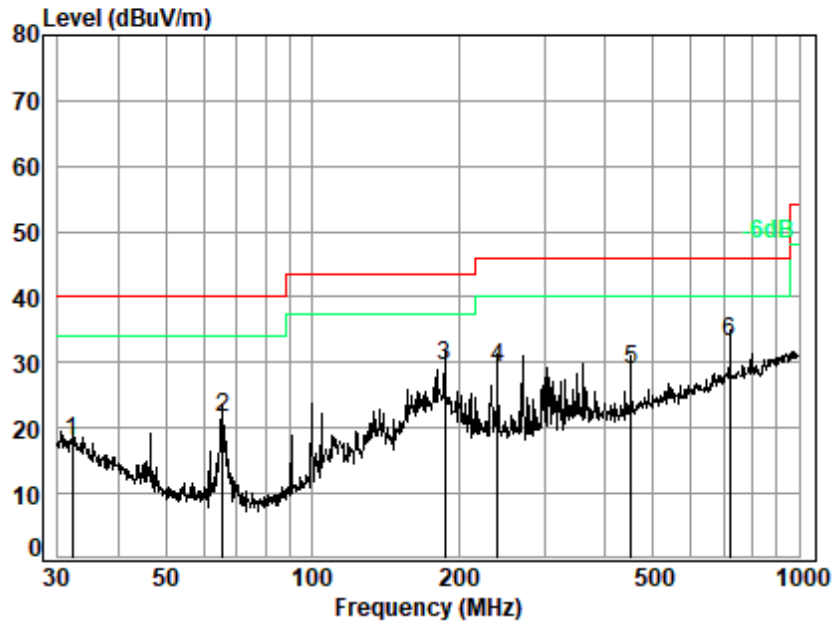
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Test Mode: 19; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03917WM
Test Mode: 19

	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	32.179	20.20	0.70	27.79	24.91	18.02	40.00	-21.98 QP
2	65.343	11.00	0.99	27.69	37.16	21.46	40.00	-18.54 QP
3	187.096	14.30	1.71	27.22	40.80	29.59	43.50	-13.91 QP
4	239.987	17.07	1.96	27.00	37.19	29.22	46.00	-16.78 QP
5	451.135	21.19	2.76	27.36	32.41	29.00	46.00	-17.00 QP
6 q	721.726	26.25	3.61	27.67	30.91	33.10	46.00	-12.90 QP



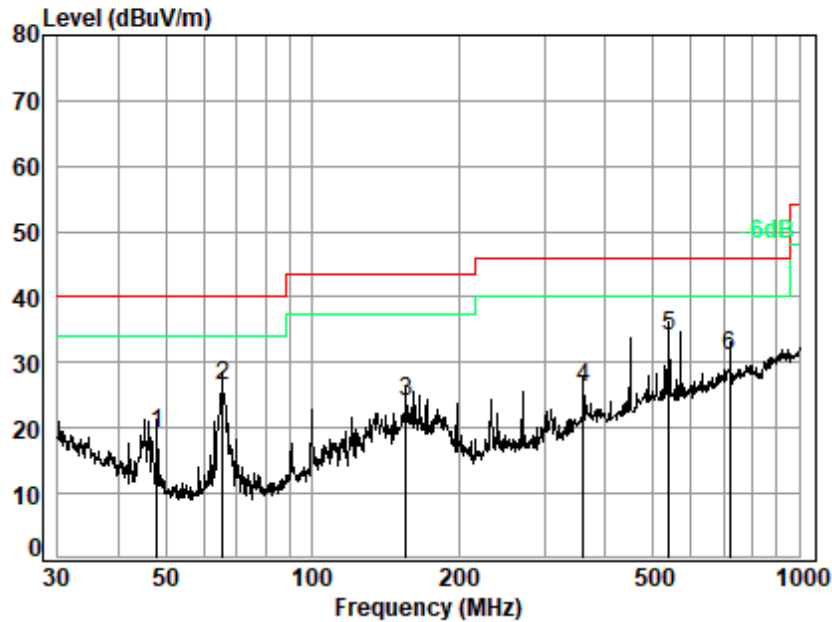
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Test Mode: 19; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03917WM
Test Mode: 19

		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	47.994	13.30	0.85	27.74	32.89	19.30	40.00	-20.70	QP
2	65.343	11.00	0.99	27.69	42.17	26.47	40.00	-13.53	QP
3	155.910	13.58	1.57	27.36	36.37	24.16	43.50	-19.34	QP
4	360.448	20.23	2.44	27.00	30.38	26.05	46.00	-19.95	QP
5 q	541.373	23.67	3.06	27.73	35.14	34.14	46.00	-11.86	QP
6	721.726	26.25	3.61	27.67	28.84	31.03	46.00	-14.97	QP



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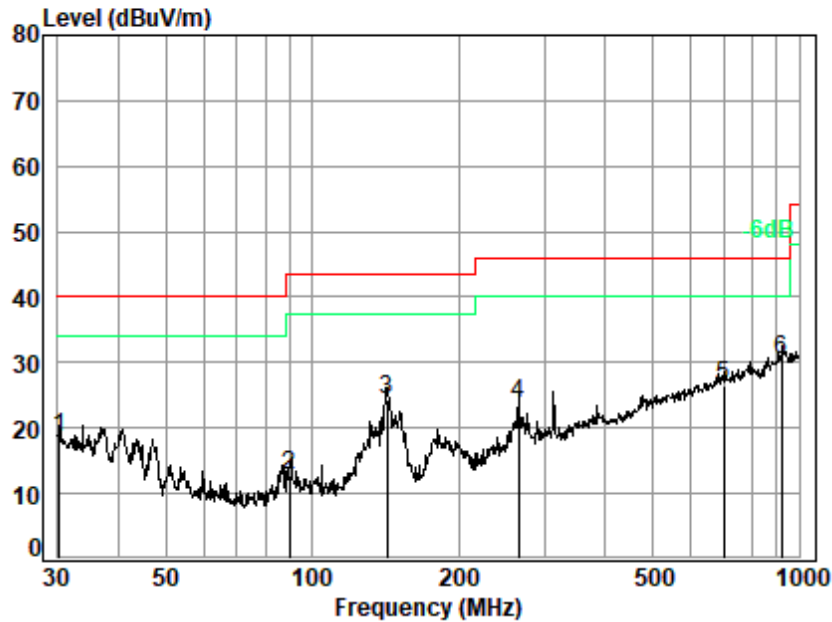
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Test Mode: 20; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03917WM
Test Mode: 20

	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	30.211	21.10	0.67	27.79	24.51	18.49	40.00	-21.51 QP
2	89.905	11.72	1.16	27.62	27.55	12.81	43.50	-30.69 QP
3	142.324	12.07	1.49	27.41	38.11	24.26	43.50	-19.24 QP
4	264.746	17.08	2.06	26.90	31.42	23.66	46.00	-22.34 QP
5	699.305	25.93	3.54	27.73	24.84	26.58	46.00	-19.42 QP
6 q	922.516	28.19	4.18	26.60	24.70	30.47	46.00	-15.53 QP



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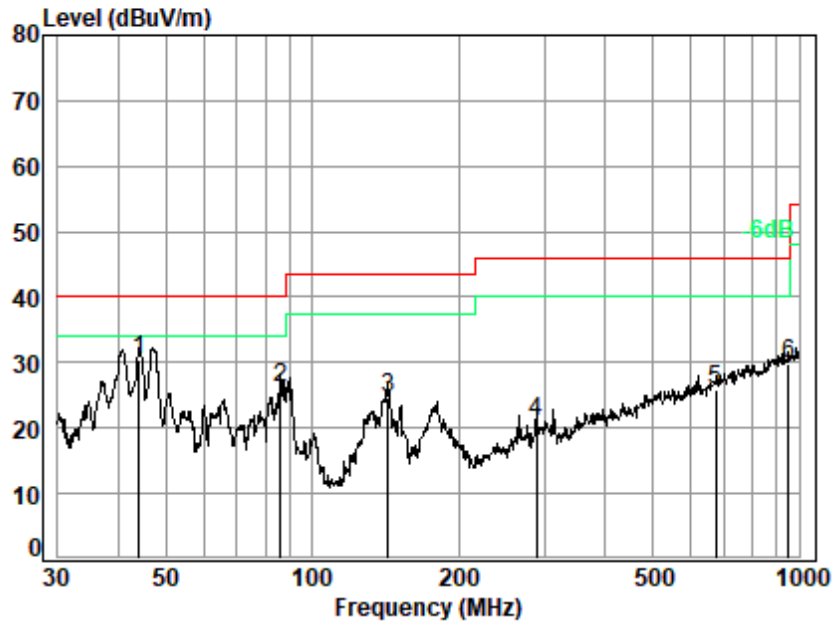
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Test Mode: 20; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03917WM
Test Mode: 20

		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	44.120	14.51	0.82	27.75	42.73	30.31	40.00	-9.69 QP
2		86.200	11.19	1.13	27.63	41.61	26.30	40.00	-13.70 QP
3		143.326	12.19	1.50	27.41	38.48	24.76	43.50	-18.74 QP
4		289.002	17.01	2.16	26.80	28.68	21.05	46.00	-24.95 QP
5		675.208	25.71	3.47	27.79	24.62	26.01	46.00	-19.99 QP
6		952.094	28.17	4.26	26.39	23.64	29.68	46.00	-16.32 QP



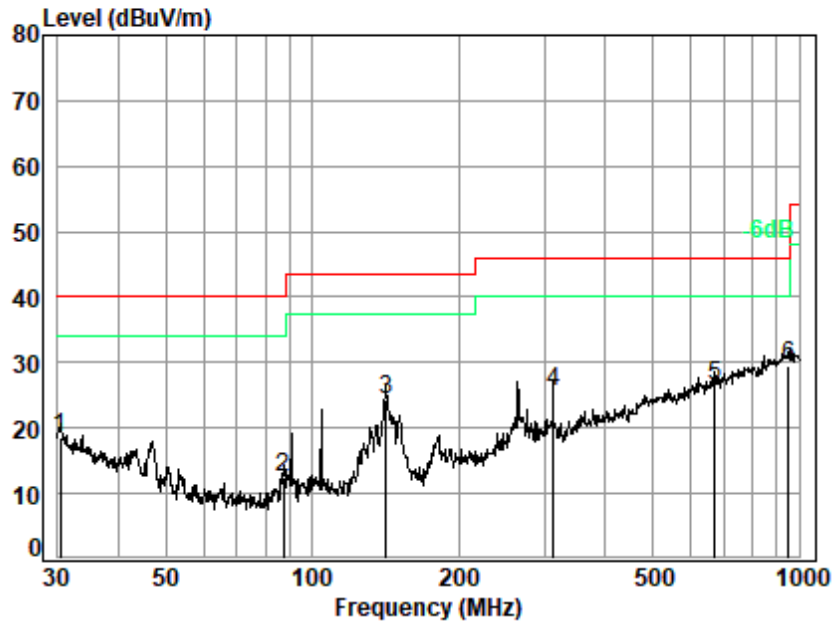
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Test Mode: 21; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03917WM
Test Mode: 21

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level	Limit	Over	
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.317	21.05	0.67	27.79	24.67	18.60	40.00	-21.40 QP
2	87.112	11.33	1.14	27.63	27.55	12.39	40.00	-27.61 QP
3	141.826	12.01	1.49	27.41	38.39	24.48	43.50	-19.02 QP
4	312.179	18.41	2.25	26.80	31.62	25.48	46.00	-20.52 QP
5	670.489	25.57	3.46	27.80	25.30	26.53	46.00	-19.47 QP
6 q	952.094	28.17	4.26	26.39	23.48	29.52	46.00	-16.48 QP



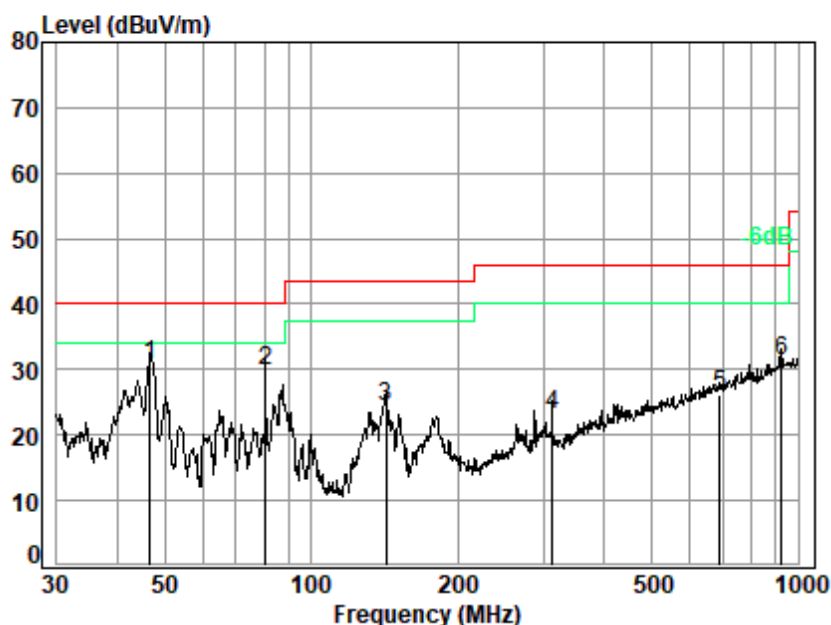
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Test Mode: 21; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 03917WM
Test Mode: 21

		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	46.666	13.74	0.84	27.74	43.80	30.64	40.00	-9.36 QP
2		80.362	10.48	1.09	27.65	45.75	29.67	40.00	-10.33 QP
3		142.324	12.07	1.49	27.41	38.31	24.46	43.50	-19.04 QP
4		312.179	18.41	2.25	26.80	29.30	23.16	46.00	-22.84 QP
5		689.565	25.69	3.51	27.75	24.64	26.09	46.00	-19.91 QP
6		925.756	28.18	4.19	26.58	25.40	31.19	46.00	-14.81 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:

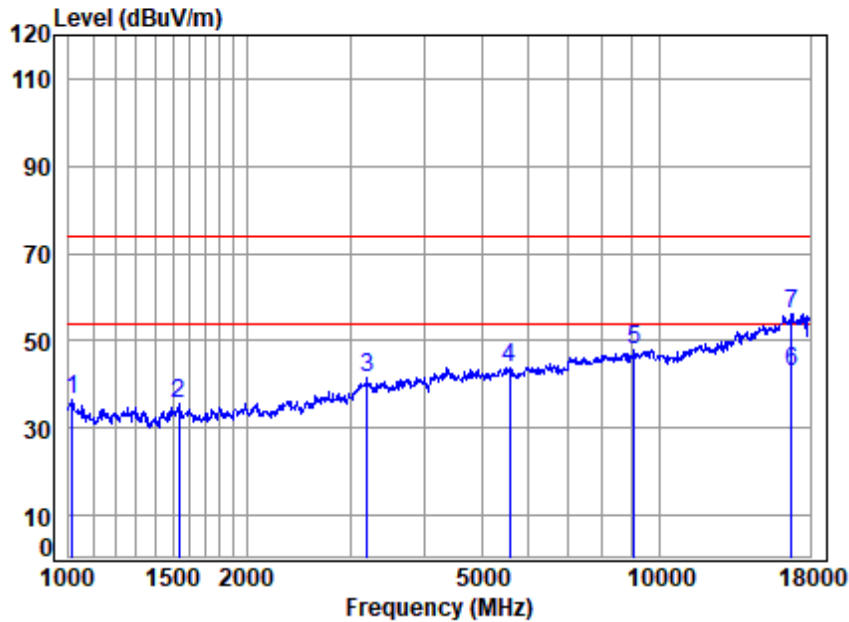
Temperature: 22.9 °C Humidity: 51.3 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	19	Transfer data between the EUT and the PC+USB Cable
Pre-scan	20	Telecom Idle+EUT+NFC+playing MP4+USB cable+Adapter1/earphone
Pre-scan	21	Telecom Idle+EUT+NFC+playing MP4+USB cable+Adapter2/earphone
Final test	22	Telecom Idle+EUT+NFC+BT+WLAN5G+USB cable+Adapter(worst)/earphone
Final test	23	Telecom Idle+EUT+NFC+camera(Front)+USB cable+Adapter(worst)/earphone
Pre-scan	24	Telecom Idle+EUT+NFC+camera(Back)+USB cable+Adapter(worst)/earphone
Pre-scan	25	Telecom Idle+EUT+NFC+BT+WLAN2.4G+GNSS+OTG output
Pre-scan	26	GSM 850(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	27	WCDMA Band 5(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	28	LTE band 5(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone
Pre-scan	34	NR_SA_N5(RX)+EUT+NFC+BT+WLAN2.4G+USB cable+Adapter(worst)/earphone



Test Mode: 19; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03917WM
Mode : 19

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1014.557	5.91	25.83	61.31	66.11	36.54	74.00	-37.46	Peak
2	1538.281	4.90	26.95	61.50	65.04	35.39	74.00	-38.61	Peak
3	3196.094	6.09	32.87	61.61	64.18	41.53	74.00	-32.47	Peak
4	5583.251	8.38	34.70	60.75	61.57	43.90	74.00	-30.10	Peak
5	9073.460	10.58	36.95	60.94	61.29	47.88	74.00	-26.12	Peak
6	q16745.210	14.19	42.79	60.75	46.68	42.91	54.00	-11.09	Average
7	p16745.210	14.19	42.79	60.75	60.10	56.33	74.00	-17.67	Peak



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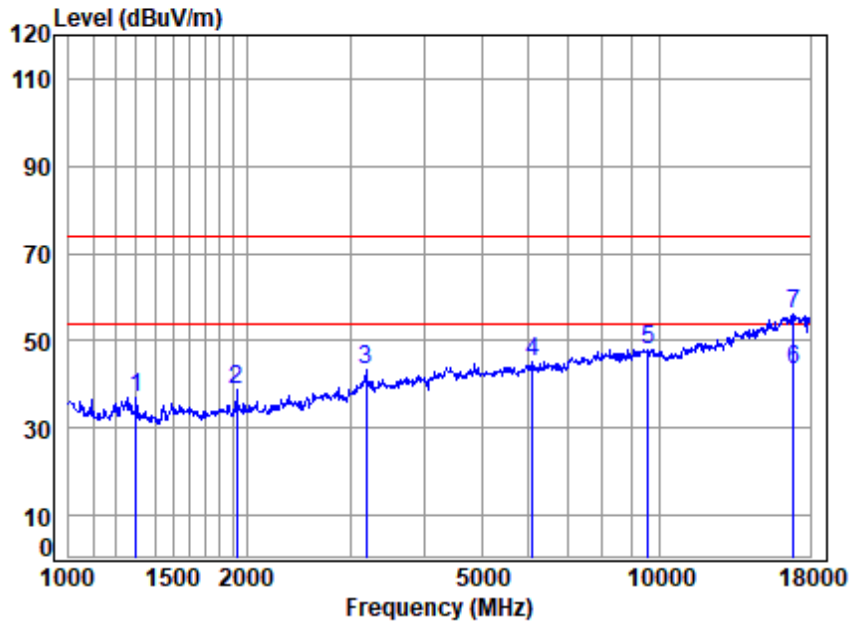
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Test Mode: 19; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 03917WM
Mode : 19

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	5.26	24.79	61.42	68.26	36.89	74.00	-37.11	Peak
2	1921.727	5.04	27.62	61.60	67.63	38.69	74.00	-35.31	Peak
3	3186.869	6.08	32.79	61.62	65.94	43.19	74.00	-30.81	Peak
4	6106.616	8.78	35.07	60.59	61.69	44.95	74.00	-29.05	Peak
5	9558.018	10.62	37.48	61.22	61.11	47.99	74.00	-26.01	Peak
6	q16891.040	14.24	43.17	60.67	46.47	43.21	54.00	-10.79	Average
7	p16891.040	14.24	43.17	60.67	59.39	56.13	74.00	-17.87	Peak



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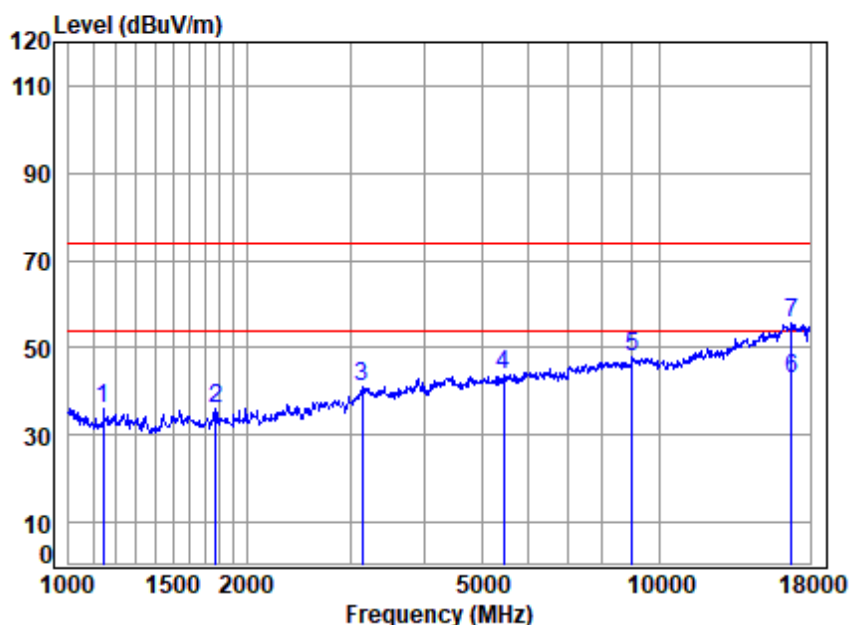
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Test Mode: 22; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03917WM
Mode : 22

	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	1145.507	5.59	23.88	61.36	67.75	35.86	74.00	-38.14	Peak
2	1772.327	4.99	26.89	61.56	65.82	36.14	74.00	-37.86	Peak
3	3141.145	6.05	32.34	61.63	64.41	41.17	74.00	-32.83	Peak
4	5455.631	8.24	34.68	60.79	61.57	43.70	74.00	-30.30	Peak
5	8995.123	10.56	36.91	60.90	61.21	47.78	74.00	-26.22	Peak
6	q16745.210	14.19	42.79	60.75	46.85	43.08	54.00	-10.92	Average
7	p16745.210	14.19	42.79	60.75	59.39	55.62	74.00	-18.38	Peak



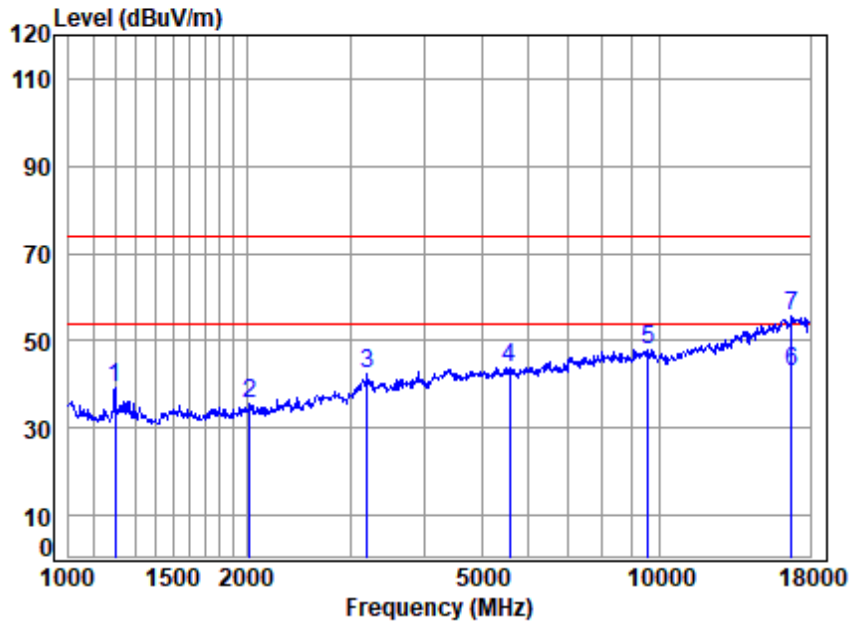
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Test Mode: 22; Polarity: Vertical

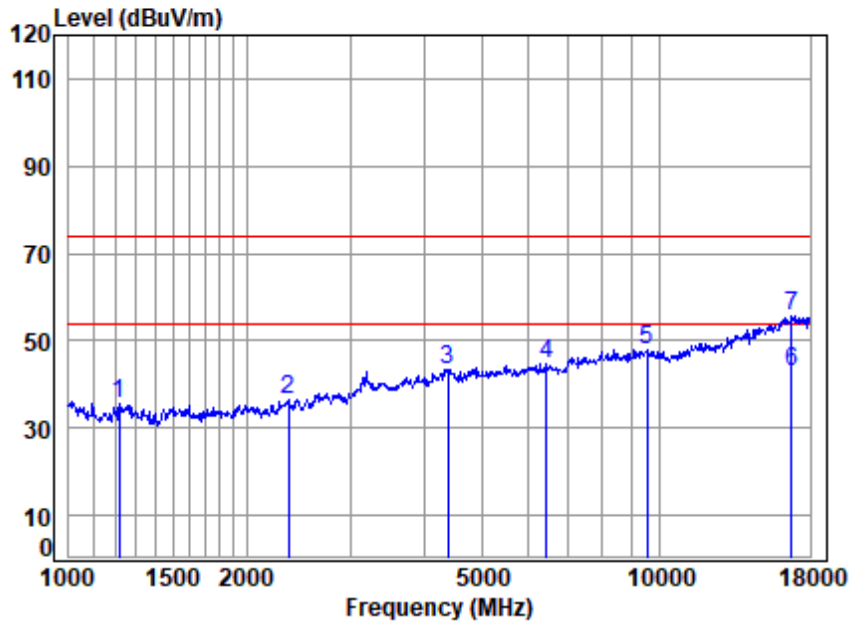


Site : chamber
Condition: 3m VERTICAL
Job No : 03917WM
Mode : 22

		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	1196.264	5.48	24.36	61.38	70.68	39.14	74.00	-34.86	Peak
2	2024.354	5.08	28.90	61.62	63.43	35.79	74.00	-38.21	Peak
3	3196.094	6.09	32.87	61.61	65.19	42.54	74.00	-31.46	Peak
4	5583.251	8.38	34.70	60.75	61.61	43.94	74.00	-30.06	Peak
5	9558.018	10.62	37.48	61.22	61.10	47.98	74.00	-26.02	Peak
6	q16745.210	14.19	42.79	60.75	46.79	43.02	54.00	-10.98	Average
7	p16745.210	14.19	42.79	60.75	59.60	55.83	74.00	-18.17	Peak



Test Mode: 23; Polarity: Horizontal



Site : chamber
Condition: 3m VERTICAL
Job No : 03917WM
Mode : 23

	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	1217.190	5.44	24.64	61.39	66.95	35.64	74.00	-38.36	Peak
2	2352.668	5.34	29.10	61.64	63.87	36.67	74.00	-37.33	Peak
3	4392.376	7.06	34.74	61.20	62.83	43.43	74.00	-30.57	Peak
4	6451.353	8.82	35.50	60.52	61.00	44.80	74.00	-29.20	Peak
5	9530.432	10.63	37.50	61.20	61.04	47.97	74.00	-26.03	Peak
6	q16745.210	14.19	42.79	60.75	46.52	42.75	54.00	-11.25	Average
7	p16745.210	14.19	42.79	60.75	59.32	55.55	74.00	-18.45	Peak



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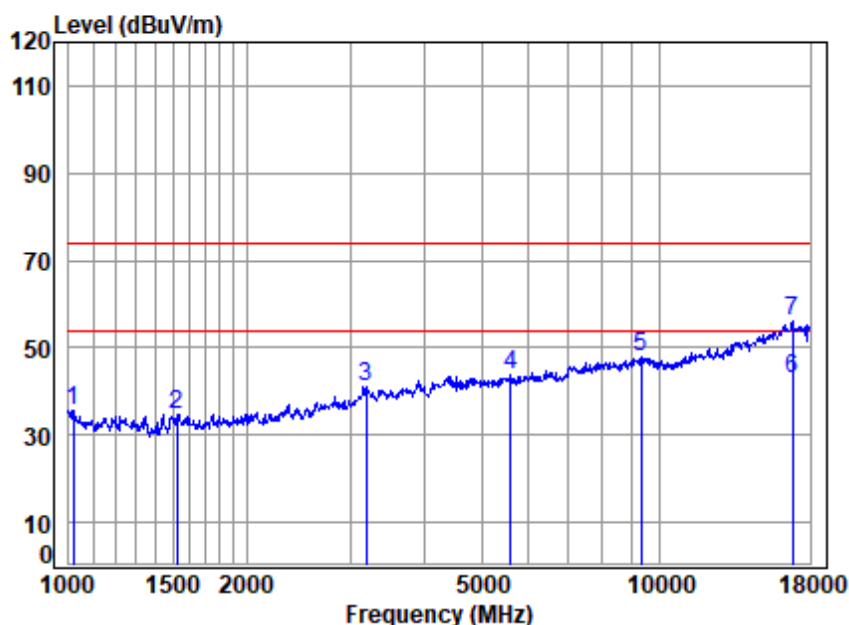
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Test Mode: 23; Polarity: Vertical



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03917WM
Mode : 23

		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	5.90	25.74	61.31	65.46	35.79	74.00	-38.21	Peak
2	1525.000	4.90	26.90	61.49	64.52	34.83	74.00	-39.17	Peak
3	3186.869	6.08	32.79	61.62	63.96	41.21	74.00	-32.79	Peak
4	5599.412	8.40	34.70	60.74	61.49	43.85	74.00	-30.15	Peak
5	9312.588	10.61	37.40	61.08	60.84	47.77	74.00	-26.23	Peak
6	q16793.680	14.20	42.89	60.73	46.70	43.06	54.00	-10.94	Average
7	p16793.680	14.20	42.89	60.73	59.71	56.07	74.00	-17.93	Peak



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7 Test Setup Photo

Please refer to SZCR2410003917 Appendix_Setup Photo

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2410003917WM

- End of the Report -

