

Report No.: SZEM190401303201

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# TEST REPORT

**Application No.:** SZEM1904013032CR(HR/2019/40012)

Applicant: Huawei Technologies Co., Ltd.

Administration Building, Headquarters of Huawei Technologies Co., Ltd., **Address of Applicant:** 

Bantian, Longgang District Shenzhen, 518129, P.R.C

Manufacturer: Huawei Technologies Co., Ltd.

Administration Building, Headquarters of Huawei Technologies Co., Ltd., Address of Manufacturer:

Bantian, Longgang District Shenzhen, 518129, P.R.C

**Equipment Under Test (EUT):** 

**EUT Name: Smart Phone** 

Model No.: VOG-L29m / VOG-L09m

FCC ID: QISVOG-LX9M

Trade mark: **HUAWEI** 

47 CFR Part 15, Subpart B Standard(s):

2019-04-19 **Date of Receipt:** 

**Date of Test:** 2019-04-26 to 2019-04-28

2019-04-29 Date of Issue:

Pass\* **Test Result:** 

中国·深圳·科技园中区M-10栋一号厂房



Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record				
Version	Version Chapter Date Modifier Remark				
01		2019-04-29		Original	

Authorized for issue by:		
	Damon Su	
	Damon Su /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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## **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	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower

Remark: The difference between VOG-L29m and VOG-L09m is that VOG-L09m deletes into single SIM card by software. Other parts of the two model are the same.



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#### **General Information**

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

Power supply:	DC 3.82V from internal rechargeable battery or from AC/DC adapter	
	Model: HW-100400U00, HW-100400E00, HW-100400B00, HW-100400A00	
Cable:	USB cable: 100cm shielded	
	Earphone cable: 115cm unshielded	

Adapter no.	Model no.	Trademark/Manufacture
1	HW-100400U00	HuaweiTechnologies Co., Ltd.
2	HW-100400E00	HuaweiTechnologies Co., Ltd.
3	HW-100400B00	HuaweiTechnologies Co., Ltd.
4	HW-100400A00	HuaweiTechnologies Co., Ltd.

Earphone no.	Model no.	Manufacturer
1	MEND1632B729000	Jiangxi Lianchuang Hongsheng Electronic Co., LTD.
2	Windy-C	GoerTek Inc.
3	1331-3301-6001-TC-296	Boluo County Quancheng Electronic Co., Ltd.
4	618017	Foster Electric Co.,(GuangZhou)LTD.Sales Dep.

USB cable no.	Model no.	Manufacturer
1	330-50465	HUIZHOU DEHONG TECHNOLOGY CO., LTD.
2	L99UC117-CS-H	LUXSHARE Precision Industry Co., Ltd.
3	WA0009	NingBo Broad Telecommunication Co.,Ltd.

Battery no.	Model no.	Manufacturer	
1	Battery Model:	HuaweiTechnologies Co.,Ltd.(DESAY)	
2	HB486486ECW	HuaweiTechnologies Co.,Ltd.(SCUD)	
Rated capacity:4100mAh		Huawerrechnologies Co.,Ltd.(SCOD)	



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#### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	ASUS	A556U	FBN0CV921312487
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200

#### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	2 Radiated Emission	± 4.5dB (30MHz-1GHz)
2		± 4.8dB (1GHz-6GHz)
3	Temperature test	± 1°C
4	Humidity test	± 3%



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#### 4.4 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### 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

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. 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: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### • 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

#### 4.7 Abnormalities from Standard Conditions

None



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# **Equipment List**

Conducted Emissions at Mains Terminals (150kHz-30MHz)											
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date						
Shielding Room	ChangZhou ZhongYu	GB-88	SEM001-06	2017-05-10	2020-05-09						
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A						
Coaxial Cable	SGS	N/A	SEM024-01	2018-07-12	2019-07-11						
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018-09-25	2019-09-24						
LISN	ETS-LINDGREN	3816/2	SEM007-02	2019-04-01	2020-03-31						
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019-04-01	2020-03-31						

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	2017-08-05	2020-08-04					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM025-01	2018-07-12	2019-07-11					
EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2018-09-25	2019-09-24					
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26					
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2019-04-01	2020-03-31					

Radiated Emissions (above 1GHz)										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM026-01	2018-07-12	2019-07-11					
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-12	2019-04-12	2020-04-11					
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12					
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018-11-12	2019-11-11					



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General used equipment										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2018-09-27	2019-09-26					
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2018-09-27	2019-09-26					
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2018-09-27	2019-09-26					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2019-04-04	2020-04-03					



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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 Frequency Range: 150kHz to 30MHz

Limit:

0.15M-0.5MHz 66dB( $\mu$ V)-56dB( $\mu$ V) quasi-peak, 56dB( $\mu$ V)-46dB( $\mu$ V) average

0.5M-5MHz 56dB( $\mu$ V) quasi-peak, 46dB( $\mu$ V) average 5M-30MHz 60dB( $\mu$ V) quasi-peak, 50dB( $\mu$ V) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz



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#### 6.1.1 E.U.T. Operation

Operating Environment:

21.5 °C Temperature: Humidity: 55 % RH Atmospheric Pressure: 1015 mbar

Pretest these modes to find the worst case:

a: Transfer data between the EUT1 and the PC+USB cable1 c: Transfer data between the EUT(worst) and the PC+USB cable3

d: Telecom Idle+BT+WLAN+NFC+GPS Rx +playing MP4 (SD card)

+battery1+adapter1

e: Telecom Idle+BT+WLAN+NFC+GPS Rx +camera (Front) +battery2+adapter2

f: Telecom Idle+BT+WLAN+NFC+GPS Rx +camera (Back)

+battery(worst)+adapter3

g: GSM 850+BT+WLAN+NFC+GPS Rx +battery(worst)+adapter4

The worst case for final test:

a: Transfer data between the EUT1 and the PC+USB cable1

c: Transfer data between the EUT1 and the PC+USB cable3

d: Telecom Idle+BT+WLAN+NFC+GPS Rx +playing MP4 (SD card)

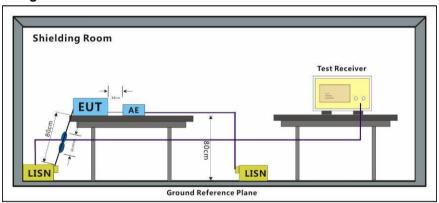
+battery1+adapter1

e: Telecom Idle+BT+WLAN+NFC+GPS Rx +camera (Front) +battery2+adapter2

f: Telecom Idle+BT+WLAN+NFC+GPS Rx +camera (Back) +battery2+adapter3

g: GSM 850+BT+WLAN+NFC+GPS Rx +battery2+adapter4

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement 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.



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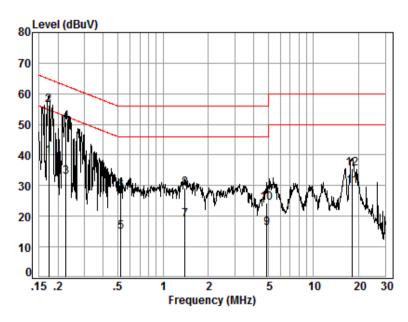
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Report No.: SZEM190401303201

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Mode:a; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 13032CR

Test mode: a

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.02	9.66	29.97	39.65	54.77	-15.12	Average
2	0.17	0.02	9.66	46.61	56.29	64.77	-8.48	QP
3	0.23	0.03	9.67	23.20	32.90	52.61	-19.71	Average
4	0.23	0.03	9.67	40.96	50.66	62.61	-11.95	QP
5	0.52	0.06	9.67	5.08	14.81	46.00	-31.19	Average
6	0.52	0.06	9.67	18.70	28.43	56.00	-27.57	QP
7	1.40	0.12	9.73	8.90	18.75	46.00	-27.25	Average
8	1.40	0.12	9.73	19.42	29.27	56.00	-26.73	QP
9	4.90	0.17	9.74	6.17	16.08	46.00	-29.92	Average
10	4.90	0.17	9.74	14.37	24.28	56.00	-31.72	QP
11	18.14	0.23	10.16	19.57	29.96	50.00	-20.04	Average
12	18.14	0.23	10.16	25.06	35.45	60.00	-24.55	QP



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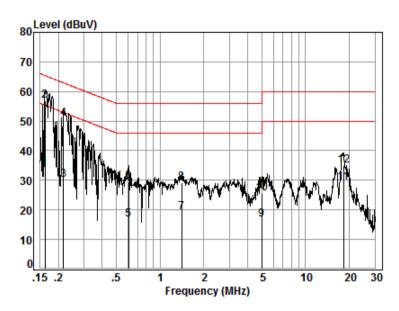
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Mode:a; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 13032CR

Test mode: a

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.64	24.76	34.41	55.38	-20.97	Average
2	0.16	0.01	9.64	47.25	56.90	65.38	-8.48	QP
3	0.22	0.03	9.64	20.32	29.99	52.92	-22.93	Average
4	0.22	0.03	9.64	41.27	50.94	62.92	-11.98	QP
5	0.61	0.07	9.64	7.16	16.87	46.00	-29.13	Average
6	0.61	0.07	9.64	19.66	29.37	56.00	-26.63	QP
7	1.41	0.12	9.70	9.24	19.06	46.00	-26.94	Average
8	1.41	0.12	9.70	19.27	29.09	56.00	-26.91	QP
9	5.00	0.17	9.71	6.91	16.79	50.00	-33.21	Average
10	5.00	0.17	9.71	15.54	25.42	60.00	-34.58	QP
11	18.23	0.23	10.19	18.73	29.15	50.00	-20.85	Average
12	18.23	0.23	10.19	24.51	34.93	60.00	-25.07	QP



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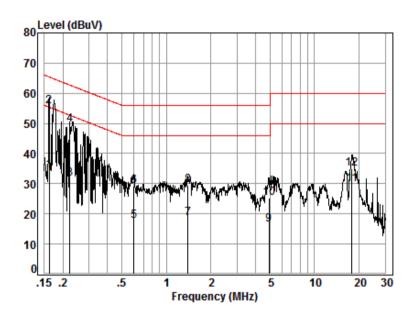
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Mode:c; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 13032CR

Test mode: c

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.66	24.85	34.52	55.38	-20.86	Average
2	0.16	0.01	9.66	46.06	55.73	65.38	-9.65	QP
3	0.22	0.03	9.66	21.91	31.60	52.70	-21.10	Average
4	0.22	0.03	9.66	39.93	49.62	62.70	-13.08	QP
5	0.60	0.07	9.67	8.02	17.76	46.00	-28.24	Average
6	0.60	0.07	9.67	19.48	29.22	56.00	-26.78	QP
7	1.40	0.12	9.73	8.73	18.58	46.00	-27.42	Average
8	1.40	0.12	9.73	19.58	29.43	56.00	-26.57	QP
9	4.93	0.17	9.74	6.38	16.29	46.00	-29.71	Average
10	4.93	0.17	9.74	15.30	25.21	56.00	-30.79	QP
11	17.85	0.23	10.17	19.46	29.86	50.00	-20.14	Average
12	17.85	0.23	10.17	24.66	35.06	60.00	-24.94	QP



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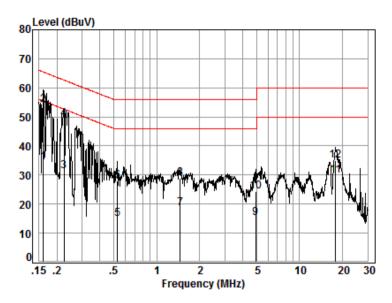
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Mode:c: Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 13032CR

Test mode: c

1030	mouc. c								
		Cable	LISN	Read		Limit	0ver		
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark	
									_
	MHz	dB	dB	dBuV	dBuV	dBuV	dB		
_									
1	0.16	0.01	9.64	24.66	34.31	55.43	-21.12	Average	
2	0.16	0.01	9.64	44.62	54.27	65.43	-11.16	QP	
3	0.22	0.03	9.64	21.59	31.26	52.66	-21.40	Average	
4	0.22	0.03	9.64	39.59	49.26	62.66	-13.40	QP	
5	0.53	0.06	9.64	5.16	14.86	46.00	-31.14	Average	
6	0.53	0.06	9.64	18.33	28.03	56.00	-27.97	QP	
7	1.46	0.13	9.70	8.87	18.70	46.00	-27.30	Average	
8	1.46	0.13	9.70	19.11	28.94	56.00	-27.06	QP	
9	4.93	0.17	9.71	5.30	15.18	46.00	-30.82	Average	
10	4.93	0.17	9.71	14.47	24.35	56.00	-31.65	QP	
11	17.94	0.23	10.21	19.35	29.79	50.00	-20.21	Average	
12	17.94	0.23	10.21	24.62	35.06	60.00	-24.94	OP	



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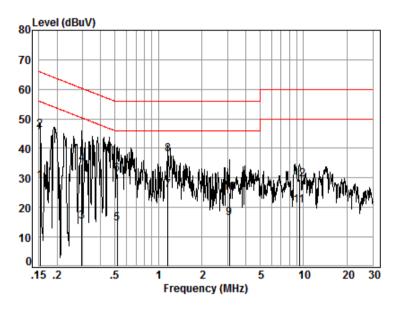
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Mode:d; Line:Live Line



: Shielding Room

Condition: Line Job No. : 13032CR

Test mode: d

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.66	19.24	28.91	55.87	-26.96	Average
2	0.15	0.01	9.66	36.61	46.28	65.87	-19.59	QP
3	0.30	0.04	9.67	5.63	15.34	50.32	-34.98	Average
4	0.30	0.04	9.67	24.99	34.70	60.32	-25.62	QP
5	0.52	0.06	9.67	4.91	14.64	46.00	-31.36	Average
6	0.52	0.06	9.67	21.48	31.21	56.00	-24.79	QP
7	1.17	0.10	9.73	16.14	25.97	46.00	-20.03	Average
8	1.17	0.10	9.73	28.08	37.91	56.00	-18.09	QP
9	3.09	0.16	9.71	6.62	16.49	46.00	-29.51	Average
10	3.09	0.16	9.71	15.22	25.09	56.00	-30.91	QP
11	9.35	0.17	9.84	10.63	20.64	50.00	-29.36	Average
12	9.35	0.17	9.84	19.51	29.52	60.00	-30.48	QP



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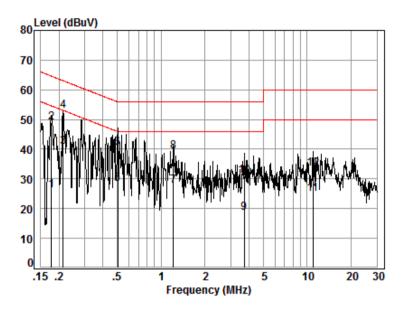
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Mode:d; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 13032CR

Test mode: d

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.02	9.64	16.35	26.01	54.59	-28.58	Average
2	0.18	0.02	9.64	39.30	48.96	64.59	-15.63	QP
3	0.21	0.02	9.64	31.24	40.90	53.10	-12.20	Average
4	0.21	0.02	9.64	43.15	52.81	63.10	-10.29	QP
5	0.50	0.06	9.64	18.50	28.20	46.00	-17.80	Average
6	0.50	0.06	9.64	30.70	40.40	56.00	-15.60	QP
7	1.22	0.11	9.70	17.97	27.78	46.00	-18.22	Average
8	1.22	0.11	9.70	29.45	39.26	56.00	-16.74	QP
9	3.70	0.16	9.69	8.63	18.48	46.00	-27.52	Average
10	3.70	0.16	9.69	21.21	31.06	56.00	-24.94	QP
11	10.96	0.18	9.96	14.81	24.95	50.00	-25.05	Average
12	10.96	0.18	9.96	23.34	33.48	60.00	-26.52	QP



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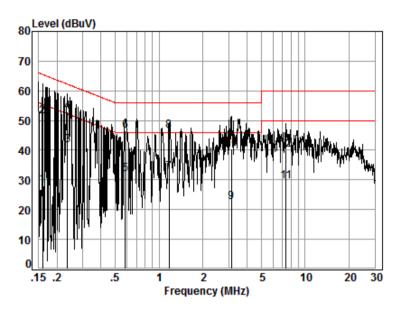
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Mode:e; Line:Live Line



: Shielding Room

Condition: Line Job No. : 13032CR

Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.66	18.50	28.17	55.52	-27.35	Average
2	0.16	0.01	9.66	41.65	51.32	65.52	-14.20	QP
3	0.24	0.03	9.67	31.92	41.62	52.26	-10.64	Average
4	0.24	0.03	9.67	43.15	52.85	62.26	-9.41	QP
5	0.59	0.07	9.67	22.13	31.87	46.00	-14.13	Average
6	0.59	0.07	9.67	36.79	46.53	56.00	-9.47	QP
7	1.17	0.11	9.73	22.61	32.45	46.00	-13.55	Average
8	1.17	0.11	9.73	36.79	46.63	56.00	-9.37	QP
9	3.12	0.16	9.71	12.64	22.51	46.00	-23.49	Average
10	3.12	0.16	9.71	30.72	40.59	56.00	-15.41	QP
11	7.41	0.17	9.79	19.62	29.58	50.00	-20.42	Average
12	7.41	0.17	9.79	30.11	40.07	60.00	-19.93	QP



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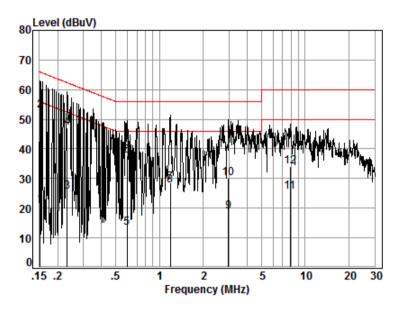
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Mode:e; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 13032CR

Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.01	9.63	11.30	20.94	55.91	-34.97	Average
2	0.15	0.01	9.63	43.35	52.99	65.91	-12.92	QP
3	0.23	0.03	9.64	16.00	25.67	52.35	-26.68	Average
4	0.23	0.03	9.64	37.50	47.17	62.35	-15.18	QP
5	0.60	0.07	9.64	3.65	13.36	46.00	-32.64	Average
6	0.60	0.07	9.64	28.07	37.78	56.00	-18.22	QP
7	1.18	0.11	9.70	18.80	28.61	46.00	-17.39	Average
8	1.18	0.11	9.70	18.00	27.81	56.00	-28.19	QP
9	2.98	0.16	9.68	9.08	18.92	46.00	-27.08	Average
10	2.98	0.16	9.68	20.39	30.23	56.00	-25.77	QP
11	7.89	0.17	9.79	15.60	25.56	50.00	-24.44	Average
12	7.89	0.17	9.79	24.26	34.22	60.00	-25.78	QP



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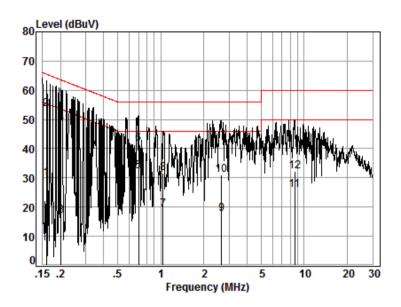
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Mode:f: Line:Live Line



: Shielding Room

Condition: Line Job No. : 13032CR

Test mode: f

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.01	9.66	20.10	29.77	55.47	-25.70	Average
2	0.16	0.01	9.66	43.80	53.47	65.47	-12.00	QP
3	0.20	0.02	9.66	7.38	17.06	53.54	-36.48	Average
4	0.20	0.02	9.66	38.96	48.64	63.54	-14.90	QP
5	0.70	0.07	9.68	22.61	32.36	46.00	-13.64	Average
6	0.70	0.07	9.68	32.01	41.76	56.00	-14.24	QP
7	1.04	0.09	9.74	9.28	19.11	46.00	-26.89	Average
8	1.04	0.09	9.74	21.95	31.78	56.00	-24.22	QP
9	2.65	0.16	9.71	7.91	17.78	46.00	-28.22	Average
10	2.65	0.16	9.71	21.23	31.10	56.00	-24.90	QP
11	8.59	0.17	9.82	15.85	25.84	50.00	-24.16	Average
12	8.59	0.17	9.82	22.32	32.31	60.00	-27.69	QP



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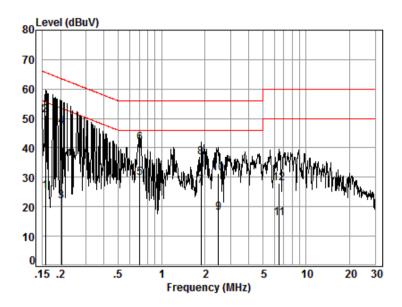
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#### Mode:f: Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 13032CR

Test mode: f

	Frea	Cable	LISN Factor	Read	Level	Limit Line	Over	Remark
	11 04	2033	i ac coi	Level	Level	Line	LIMIC	Kellidi K
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
				45 63				
1	0.16	0.01	9.63	15.63	25.27	55.60	-30.33	Average
2	0.16	0.01	9.63	41.46	51.10	65.60	-14.50	QP
3	0.20	0.02	9.64	12.16	21.82	53.49	-31.67	Average
4	0.20	0.02	9.64	37.53	47.19	63.49	-16.30	QP
5	0.70	0.08	9.65	20.22	29.95	46.00	-16.05	Average
6	0.70	0.08	9.65	32.02	41.75	56.00	-14.25	QP
7	1.88	0.15	9.69	17.27	27.11	46.00	-18.89	Average
8	1.88	0.15	9.69	26.87	36.71	56.00	-19.29	QP
9	2.47	0.16	9.68	8.23	18.07	46.00	-27.93	Average
10	2.47	0.16	9.68	21.35	31.19	56.00	-24.81	QP
11	6.49	0.17	9.75	6.16	16.08	50.00	-33.92	Average
12	6.49	0.17	9.75	18.07	27.99	60.00	-32.01	OP



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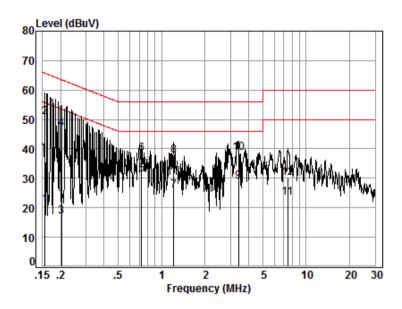
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Mode:g; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 13032CR

Test mode: g

rk
age



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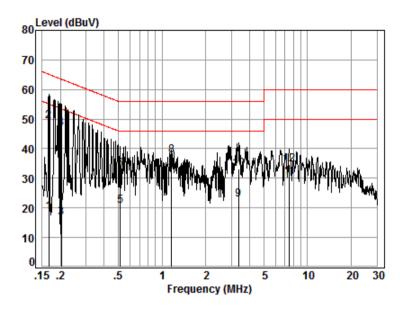
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Mode:g; Line:Neutral Line



: Shielding Room

Condition: Neutral Job No. : 13032CR

Test mode: g

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17	0.01	9.64	8.79	18.44	55.16	-36.72	Average
2	0.17	0.01	9.64	39.51	49.16	65.16	-16.00	QP
3	0.20	0.02	9.64	7.06	16.72	53.49	-36.77	Average
4	0.20	0.02	9.64	37.19	46.85	63.49	-16.64	QP
5	0.52	0.06	9.64	11.02	20.72	46.00	-25.28	Average
6	0.52	0.06	9.64	23.42	33.12	56.00	-22.88	QP
7	1.17	0.10	9.70	21.30	31.10	46.00	-14.90	Average
8	1.17	0.10	9.70	28.03	37.83	56.00	-18.17	QP
9	3.35	0.16	9.68	13.08	22.92	46.00	-23.08	Average
10	3.35	0.16	9.68	23.43	33.27	56.00	-22.73	QP
11	7.53	0.17	9.78	20.45	30.40	50.00	-19.60	Average
12	7.53	0.17	9.78	24.84	34.79	60.00	-25.21	QP



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#### 6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014 Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Limit:

30 MHz - 88 MHz  $40.0 (\text{dB}\mu\text{V/m})$  quasi-peak 88 MHz - 216 MHz  $43.5 (\text{dB}\mu\text{V/m})$  quasi-peak 216 MHz - 960 MHz  $46.0 (\text{dB}\mu\text{V/m})$  quasi-peak  $54.0 (\text{dB}\mu\text{V/m})$  quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz



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#### 6.2.1 E.U.T. Operation

Operating Environment:

Atmospheric Pressure: 1015 mbar 24.1 °C Temperature: Humidity: % RH 55

Pretest these modes to find the worst case: a: Transfer data between the EUT1 and the PC+USB cable1 b: Transfer data between the EUT2 and the PC+USB cable2

c: Transfer data between the EUT(worst) and the PC+USB cable3

d: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)

+earphone1/adapter1+battery1

e: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)

+earphone2/adapter2+battery2

f: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back)

+earphone3/adapter3+battery(worst)

g: GSM 850+BT+WLAN+NFC+GPS Rx+earphone4/adapter4+battery(worst)

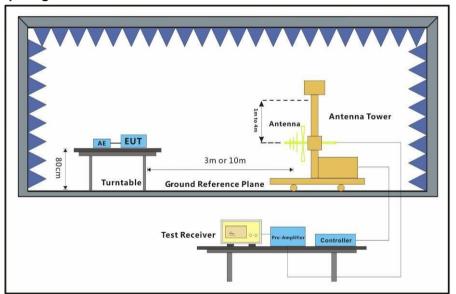
The worst case for final test:

a: Transfer data between the EUT1 and the PC+USB cable1

b: Transfer data between the EUT2 and the PC+USB cable2

c: Transfer data between the EUT1 and the PC+USB cable3 g: GSM 850+BT+WLAN+NFC+GPS Rx+battery1+adapter4

#### 6.2.2 Test Setup Diagram



#### 6.2.3 Measurement 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.



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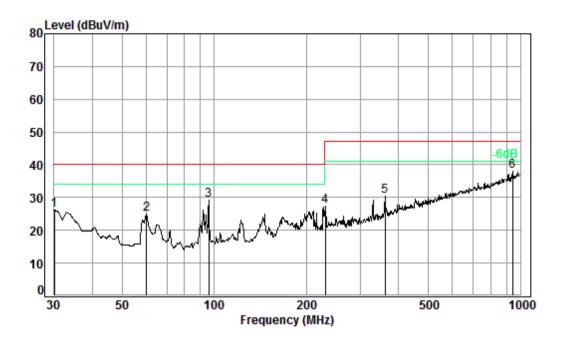
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Mode:a: Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 13032CR

Test Mode: a

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.60	22.44	27.67	30.77	26.14	40.00	-13.86
2	60.07	0.80	13.20	27.56	38.63	25.07	40.00	-14.93
3	96.10	1.16	13.66	27.51	41.83	29.14	40.00	-10.86
4	230.91	1.58	18.09	27.53	35.24	27.38	47.00	-19.62
5	361.71	2.09	21.42	27.66	34.42	30.27	47.00	-16.73
6 pp	942.13	3.64	30.02	26.94	31.28	38.00	47.00	-9.00



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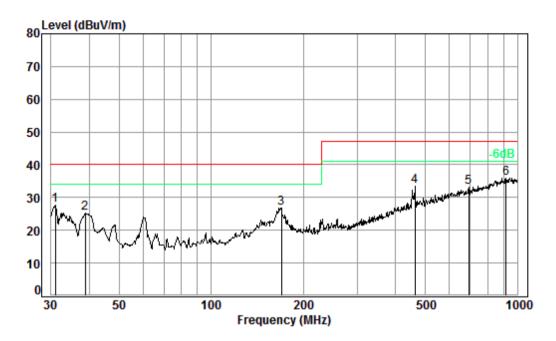
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Mode:a: Polarization:Vertical



Condition: 3m VERTICAL Job No. : 13032CR

Test Mode: a

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.96	0.60	21.95	27.67	32.88	27.76	40.00	-12.24
2	38.75	0.60	18.05	27.63	34.15	25.17	40.00	-14.83
3	169.60	1.35	15.70	27.52	37.38	26.91	40.00	-13.09
4	462.35	2.46	23.83	27.83	34.88	33.34	47.00	-13.66
5	694.42	2.89	27.83	27.56	29.88	33.04	47.00	-13.96
6 pp	919.29	3.62	29.90	27.02	29.51	36.01	47.00	-10.99



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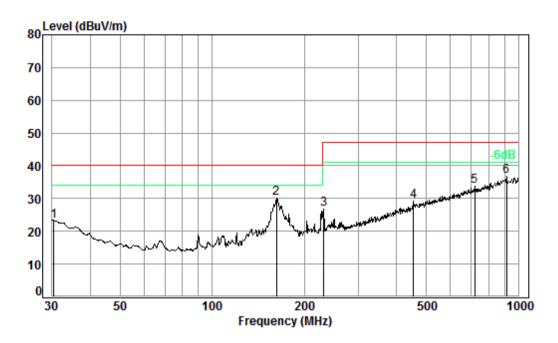
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Report No.: SZEM190401303201

Page: 28 of 40

Mode:b; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 13032CR

Test Mode: b

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.42	0.60	22.26	27.67	28.06	23.25	40.00	-16.75
2 pp	162.04	1.34	15.54	27.52	40.79	30.15	40.00	-9.85
3	231.72	1.58	18.15	27.53	34.71	26.91	47.00	-20.09
4	454.31	2.43	23.66	27.82	30.89	29.16	47.00	-17.84
5	719.20	2.96	28.02	27.52	30.21	33.67	47.00	-13.33
6	916.07	3.62	29.88	27.03	30.29	36.76	47.00	-10.24



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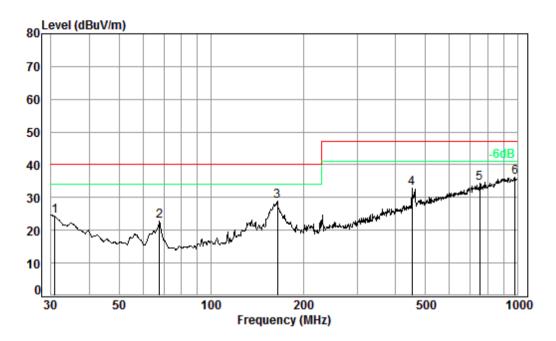
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Report No.: SZEM190401303201

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Mode:b; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 13032CR

Test Mode: b

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.85	0.60	22.01	27.67	29.24	24.18	40.00	-15.82
2	67.91	0.80	12.88	27.53	36.51	22.66	40.00	-17.34
3	164.91	1.34	15.60	27.52	39.35	28.77	40.00	-11.23
4	452.72	2.42	23.62	27.81	34.61	32.84	47.00	-14.16
5	752.74	3.07	28.23	27.48	30.48	34.30	47.00	-12.70
6 pp	982.62	3.68	30.22	26.82	29.17	36.25	47.00	-10.75



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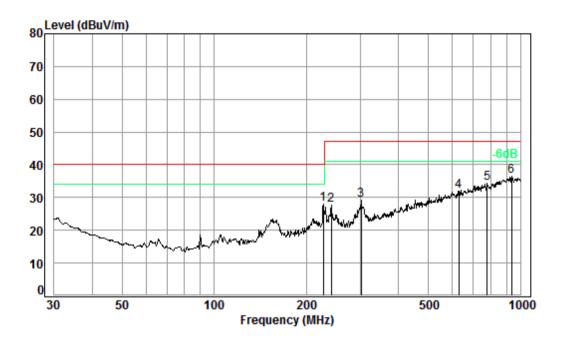
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Mode:c: Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 13032CR

Test Mode: c

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	226.89	1.56	17.77	27.53	36.08	27.88	40.00	-12.12
2	240.83	1.63	18.81	27.53	34.87	27.78	47.00	-19.22
3	302.48	1.91	19.68	27.55	35.01	29.05	47.00	-17.95
4	629.48	2.76	27.00	27.65	29.77	31.88	47.00	-15.12
5	779.61	3.14	28.38	27.45	30.21	34.28	47.00	-12.72
6 pp	935.55	3.64	29.98	26.96	29.91	36.57	47.00	-10.43



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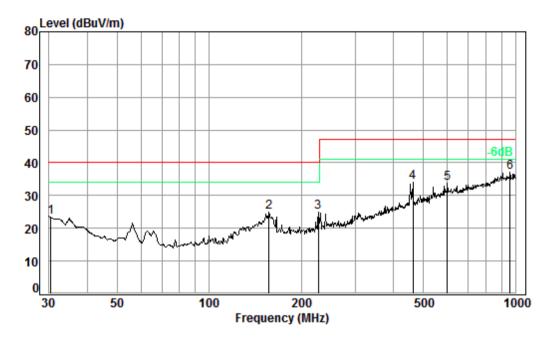
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Mode:c: Polarization:Vertical



Condition: 3m VERTICAL Job No. : 13032CR

Test Mode: c

	Freq			Preamp Factor				Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.42	0.60	22.26	27.67	28.15	23.34	40.00	-16.66
2	157.01	1.33	15.25	27.52	35.90	24.96	40.00	-15.04
3	226.89	1.56	17.77	27.53	33.15	24.95	40.00	-15.05
4	462.35	2.46	23.83	27.83	35.48	33.94	47.00	-13.06
5	599.32	2.70	26.59	27.70	32.24	33.83	47.00	-13.17
6 pp	962.16	3.66	30.12	26.88	30.35	37.25	47.00	-9.75



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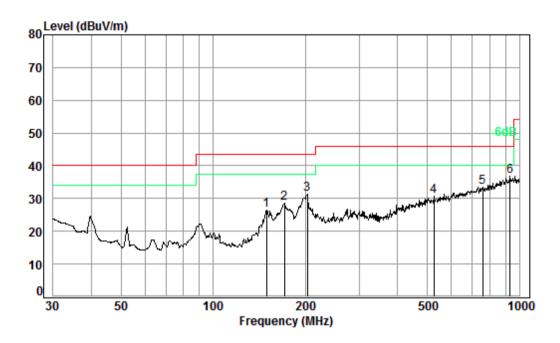
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Mode:g; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 13032CR

Test Mode: g

	Freq			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	149.49	1.32	14.58	27.52	38.23	26.61	43.50	-16.89
2	170.79	1.35	15.72	27.52	38.97	28.52	43.50	-14.98
3	202.81	1.42	16.60	27.53	40.73	31.22	43.50	-12.28
4	526.40	2.63	25.16	27.83	30.64	30.60	46.00	-15.40
5	758.04	3.08	28.26	27.47	29.59	33.46	46.00	-12.54
6 pp	932.27	3.63	29.97	26.97	30.32	36.95	46.00	-9.05



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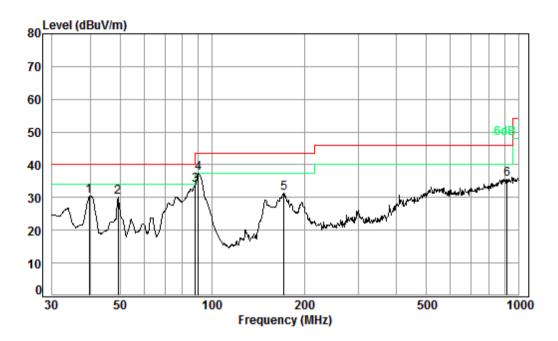
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Report No.: SZEM190401303201

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Mode:g; Polarization:Vertical



Condition: 3m VERTICAL Job No. : 13032CR

Test Mode: g

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	39.71	0.60	17.62	27.63	39.88	30.47	40.00	-9.53
2	49.36	0.79	14.39	27.60	42.55	30.13	40.00	-9.87
3	88.03	1.10	12.89	27.50	47.42	33.91	43.50	-9.59
4 pp	90.22	1.10	13.12	27.51	50.60	37.31	43.50	-6.19
5	171.39	1.36	15.73	27.52	41.77	31.34	43.50	-12.16
6	919.29	3.62	29.90	27.02	29.06	35.56	46.00	-10.44



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#### 6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014 Frequency Range: Above 1GHz

Measurement Distance: 3m

Limit:

Above 1GHz 74(dBµV/m) peak, 54(dBµV/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz



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#### 6.3.1 E.U.T. Operation

Operating Environment:

23.1 °C Atmospheric Pressure: 1015 mbar Temperature: Humidity: 53.7 % RH

Pretest these modes to find the worst case: a: Transfer data between the EUT1 and the PC+USB cable1 b: Transfer data between the EUT2 and the PC+USB cable2

c: Transfer data between the EUT(worst) and the PC+USB cable3

d: Telecom Idle+BT+WLAN+NFC+GPS Rx+playing MP4 (SD card)

+earphone1/adapter1+battery1

e: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Front)

+earphone2/adapter2+battery2

f: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back)

+earphone3/adapter3+battery(worst)

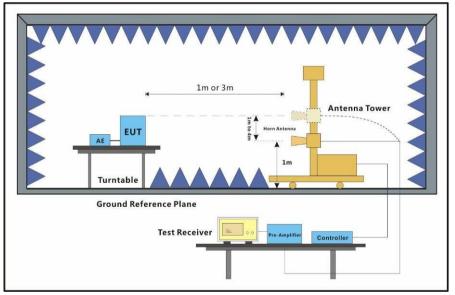
g: GSM 850+BT+WLAN+NFC+GPS Rx+earphone4/adapter4+battery(worst)

The worst case for final test:

a: Transfer data between the EUT1 and the PC+USB cable1

f: Telecom Idle+BT+WLAN+NFC+GPS Rx+camera (Back) + battery1+adapter3

#### 6.3.2 Test Setup Diagram



#### 6.3.3 Measurement 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.



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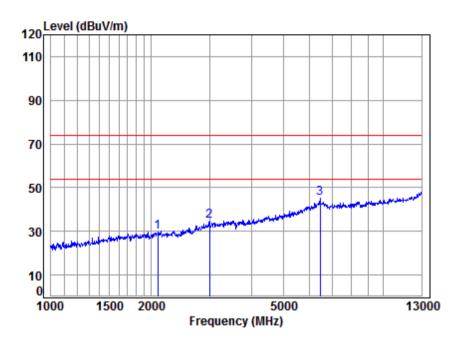
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Mode:a: Polarization:Horizontal



Site : chamber

Condition: 3m Horizontal

: 13032CR Job No

Mode : a

> 1 2 3

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2098.600	5.06	27.99	41.04	37.51	29.52	74.00	-44.48	Peak
2997.559	5.98	30.89	41.40	39.25	34.72	74.00	-39.28	Peak
6/137 583	11 //2	35 5/	12 16	10 70	45 20	74 00	-28 80	Poak



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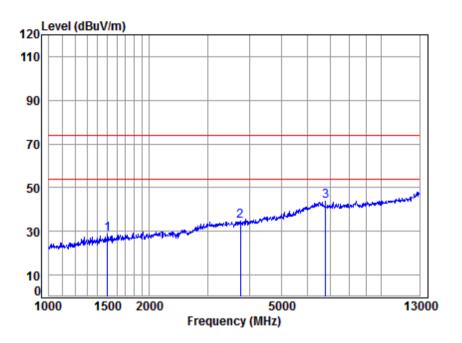
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Mode:a: Polarization:Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 13032CR

Mode : a

> 1 2 3

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1499.695								
3766.246 6776.442								



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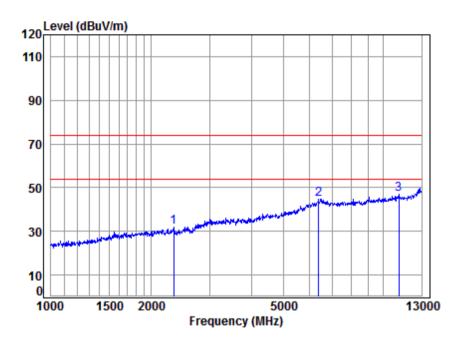
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Mode:f; Polarization:Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 13032CR

Mode : f

> 1 2 3

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2337.304	5.40	28.43	41.15	39.41	32.09	74.00	-41.91	Peak
6388.237	11.33	35.49	42.50	40.47	44.79	74.00	-29.21	Peak
11117 130	11 75	37 82	38 32	35 66	46 91	74 00	-27 09	Poak



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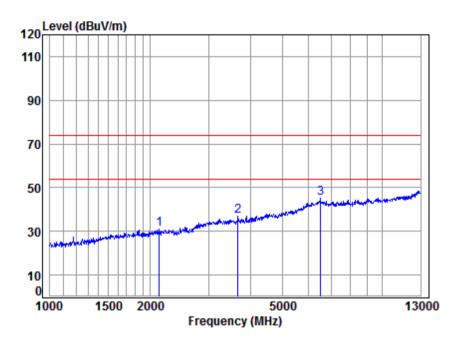
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Report No.: SZEM190401303201

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Mode:f; Polarization:Vertical



Site : chamber Condition: 3m VERTICAL

Job No : 13032CR

Mode : f

1 2 3

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2131.146								
3670.872	6.65	32.06	42.35	40.64	37.00	74.00	-37.00	Peak
6503.972	11.53	35.60	42 40	40.59	45.32	74 00	-28.68	Peak



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#### 7 **Photographs**

#### 7.1 Test Setup

Refer to Setup Photos

#### 7.2 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos

- End of the Report -



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