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Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM180600503302

Fax: +86 (0) 755 2671 0594 Page: 1 of 50

TEST REPORT

Application No.: SZEM1806005033RG

Applicant: Huawei Technologies Co., Ltd.

Address of Applicant: Administration Building, Huawei Technologies Co., Ltd. Bantian, Longgang

District, Shenzhen, P. R. China, 518129

Manufacturer: Huawei Technologies Co., Ltd.

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

District, Shenzhen, P. R. China,

Factory: CK Telecom Limited

Address of Factory: Technology Road. High-Tech Development Zone. Heyuan, Guangdong,

P.R.China.

Equipment Under Test (EUT):

EUT Name: HUAWEI MediaPad T3

Model No.: KOB-W09
Trade mark: HUAWEI

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

Date of Receipt: 2018-06-13

Date of Test: 2018-06-15 to 2018-06-20

Date of Issue: 2018-06-21

Test Result: Pass*



EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM180600503302

Page: 2 of 50

	Revision Record						
Version	Version Chapter Date Modifier Remark						
01		2018-06-21		Original			

Authorized for issue by:		
	Landew	
	Leo Lai /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	_



Report No.: SZEM180600503302

Page: 3 of 50

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	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	

InternalSource	UpperFrequency
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



Report No.: SZEM180600503302

Page: 4 of 50

3 Contents

			Page
1	COV	/ER PAGE	1
^	TEC	T CLIMANA A D.V.	•
2	IES	T SUMMARY	
3	CON	ITENTS	4
4	GEN	IERAL INFORMATION	5
	4.1	DETAILS OF E.U.T.	5
	4.2	DESCRIPTION OF SUPPORT UNITS	6
	4.3	MEASUREMENT UNCERTAINTY	6
	4.4	TEST LOCATION.	
	4.5	TEST FACILITY	
	4.6	DEVIATION FROM STANDARDS	
	4.7	ABNORMALITIES FROM STANDARD CONDITIONS	7
5	EQL	IPMENT LIST	8
6	EMI	SSION TEST RESULTS	10
	6.1	CONDUCTED EMISSIONS AT MAINS TERMINALS (150kHz-30MHz)	10
	6.1.	1 E.U.T. Operation	11
	6.1.2	2 Test Setup Diagram	11
	6.1.3		
	6.2	RADIATED EMISSIONS (30MHz-1GHz)	
	6.2.		
	6.2.2		
	6.2.3		
	6.3	RADIATED EMISSIONS (ABOVE 1GHz)	
	6.3.		
	6.3.2		
	6.3.3		
7	EUT	CONSTRUCTIONAL DETAILS (EUT PHOTOS)	50



Report No.: SZEM180600503302

Page: 5 of 50

4 General Information

4.1 Details of E.U.T.

General Description:

Huawei MediaPad T3 (MediaPad T3 for short) is an 8-inch tablet computer that incorporates a high-performance quad-core processor (MSM8917) and supports Wi-Fi data connections.

MediaPad T3 comes with an IPS screen at 1280 x 800 pixels. Media Pad T3 is a smart assistant of life and entertainment, which can help with office work, GPS navigation and others.

Details of the auxiliary equipment in the test:

Name	Manufacture	Factory	Description
Adapter	Huawei Technologies Co.,Ltd.		Model: HW-050100E01 Input voltage: 100V~240V AC and 50/60 Hz,0.2A Output voltage: +5V === 1A
Adapter	Huawei Technologies Co.,Ltd.	SHENZHEN HUNTKEY ELECTRIC CO.,LTD; HUIZHOU BYD ELECTRONIC	Model: HW-050100B01 Input voltage: 100V~240V AC and 50/60 Hz,0.2A Output voltage: +5V 1A
Adapter	Huawei Technologies Co.,Ltd.	CO.,LTD; DONGGUAN PHITEK ELECTRONICS CO.,LTD	Model: HW-050100A01 Input voltage: 100V~240V AC and 50/60 Hz,0.2A Output voltage: +5V === 1A
Adapter	Huawei Technologies Co.,Ltd.		Model: HW-050100U01 Input voltage: 100V~240V AC and 50/60 Hz,0.2A Output voltage: +5V === 1A

Name	Manufacture	Factory	Description
Li-ion Battery	Huawei Technologies Co.,Ltd.	Harbin Coslight Power Co., Ltd.	Battery Model: HB3080G1EBC Rated capacity: 4650 mAh Nominal Voltage: +3.8V Charging Voltage: +4.35V
Li-ion Battery	Huawei Technologies Co.,Ltd.	SCUD (FUJIAN) Electronics Co., Ltd	Battery Model: HB3080G1EBW Rated capacity: 4650 mAh Nominal Voltage: +3.8V Charging Voltage: +4.35V

Name	Model	Factory	Description
Earphone	1293#+3283# 3.5MM-150	HONGLIN TECHNOLOGY CO.,LTD	3.5mm-4P Nickel Plating,Length 1100mm
Earphone	HA1-3	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	3.5mm-4P Nickel Plating,Length 1100mm
Earphone	MEMD1532B528 000	Luxshare Precision Industry Co., Ltd	3.5mm-4P Nickel Plating,Length 1100mm

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Report No.: SZEM180600503302

Page: 6 of 50

Name	Model	Factory	Description
USB cable	130-26654	HONGLIN TECHNOLOGY CO.,LTD	1.0m shielded
USB cable	CUBB01M- HC208-DH	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	1.0m shielded
USB cable	L99U2013-CS-H	Luxshare Precision Industry Co., Ltd	1.0m shielded

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
Earphone	applicant		
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	Dadiated Cariasian	± 4.5dB (30MHz-1GHz)	
2	Radiated Emission	± 4.8dB (1GHz-6GHz)	
3	Temperature test	± 1 ℃	
4	Humidity test	± 3%	



Report No.: SZEM180600503302

Page: 7 of 50

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.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



Report No.: SZEM180600503302

Page: 8 of 50

5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)						
Equipment	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	2017-07-13	2018-07-12	
LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-09-27	2018-09-26	
LISN	ETS-LINDGREN	3816/2	SEM007-02	2018-04-02	2019-04-01	
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018-04-02	2019-04-01	

Radiated Emissions (30MHz-1GHz)										
Equipment Manufacturer Model No Inventory No Cal Date C										
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018-03-31	2021-03-30					
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM029-01	2017-07-13	2018-07-12					
EMI Test Receiver (9kHz-3GHz)	Rohde & Schwarz	ESCI	SEM004-01	2018-04-02	2019-04-01					
Trilog-Broadband Antenna(30MHz-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-28					
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2018-04-13	2019-04-12					

Radiated Emissions (above 1GHz)									
Equipment Manufacturer Model No Inventory No Cal Date Cal D									
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	2017-07-13	2018-07-12				
EXA Spectrum Analyzer	AgilentTechnologies Inc	N9010A	SEM004-09	2018-04-13	2019-04-12				
Horn Antenna(1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12				
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-26				



Report No.: SZEM180600503302

Page: 9 of 50

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	2017-09-29	2018-09-28				
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28				
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28				
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07				



Report No.: SZEM180600503302

Page: 10 of 50

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(μ V)-56dB(μ V) quasi-peak, 56dB(μ V)-46dB(μ V) average

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

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



Report No.: SZEM180600503302

Page: 11 of 50

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C Humidity: 51.3 % RH Atmospheric Pressure: 1010 mbar

Test Mode: a: BT+WLAN+GPS Rx+playing

MP4+earphone(BOLUO)+battery(HARBIN)+adapter(BYD)

b: BT+WLAN+GPS Rx+playing

MP4+earphone(BOLUO)+battery(HARBIN)+adapter(PHITEK)

c: BT+WLAN+GPS Rx+playing

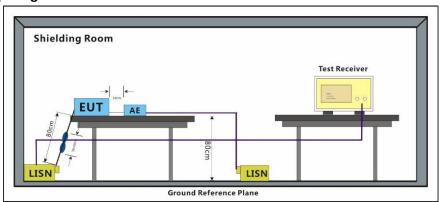
MP4+earphone(BOLUO)+battery(HARBIN)+adapter(HUNTKEY)

d: BT+WLAN+GPS

Rx+camera(Front)+earphone(BOLUO)+battery(SCUD)+adapter(PHITEK)

g: Transfer data between the EUT and the PC

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

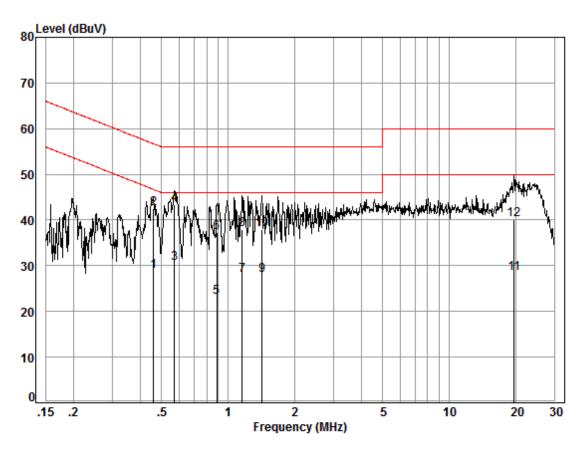
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



Report No.: SZEM180600503302

Page: 12 of 50

Mode:a; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 05033RG

Test mode: a

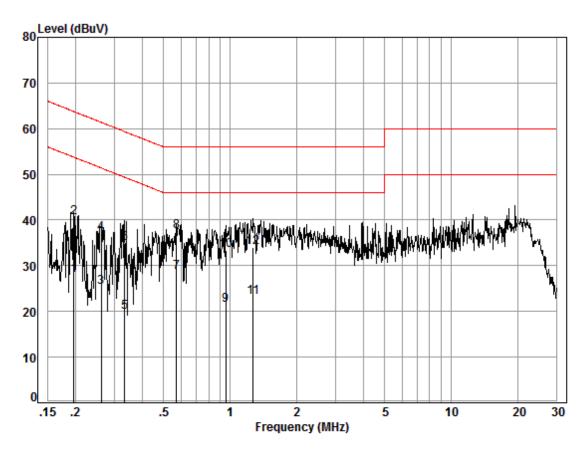
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.46	0.04	9.49	19.20	28.73	46.67	-17.94	Average
2	0.46	0.04	9.49	33.07	42.60	56.67	-14.07	QP
3	0.57	0.05	9.52	20.88	30.45	46.00	-15.55	Average
4	0.57	0.05	9.52	33.87	43.44	56.00	-12.56	QP
5	0.89	0.08	9.49	13.47	23.04	46.00	-22.96	Average
6	0.89	0.08	9.49	27.80	37.37	56.00	-18.63	QP
7	1.16	0.11	9.51	18.33	27.95	46.00	-18.05	Average
8	1.16	0.11	9.51	28.21	37.83	56.00	-18.17	QP
9	1.43	0.13	9.51	18.29	27.93	46.00	-18.07	Average
10	1.43	0.13	9.51	28.25	37.89	56.00	-18.11	QP
11	19.74	0.27	9.74	18.41	28.42	50.00	-21.58	Average
12	19.74	0.27	9.74	30.08	40.09	60.00	-19.91	QP



Report No.: SZEM180600503302

Page: 13 of 50

Mode:a; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 05033RG

Test mode: a

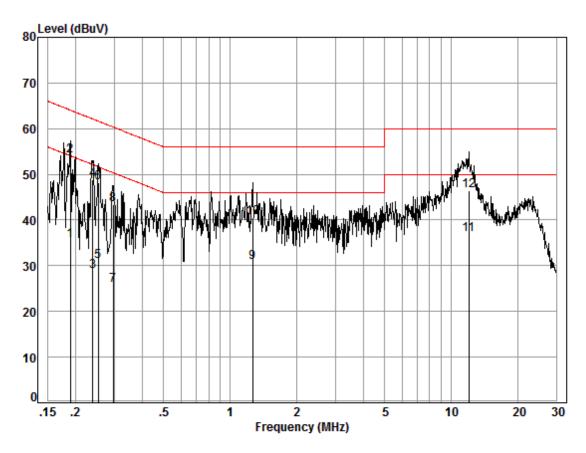
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.20	0.03	9.57	18.33	27.93	53.76	-25.83	Average
2	0.20	0.03	9.57	30.93	40.53	63.76	-23.23	QP
3	0.26	0.03	9.58	15.66	25.27	51.38	-26.11	Average
4	0.26	0.03	9.58	27.44	37.05	61.38	-24.33	QP
5	0.33	0.03	9.58	10.22	19.83	49.35	-29.52	Average
6	0.33	0.03	9.58	25.33	34.94	59.35	-24.41	QP
7	0.57	0.05	9.61	18.86	28.52	46.00	-17.48	Average
8	0.57	0.05	9.61	27.83	37.49	56.00	-18.51	QP
9	0.96	0.09	9.62	11.55	21.26	46.00	-24.74	Average
10	0.96	0.09	9.62	23.62	33.33	56.00	-22.67	QP
11	1.28	0.12	9.64	13.33	23.09	46.00	-22.91	Average
12	1.28	0.12	9.64	24.33	34.09	56.00	-21.91	QP



Report No.: SZEM180600503302

Page: 14 of 50

Mode:b; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 05033RG

Test mode: b

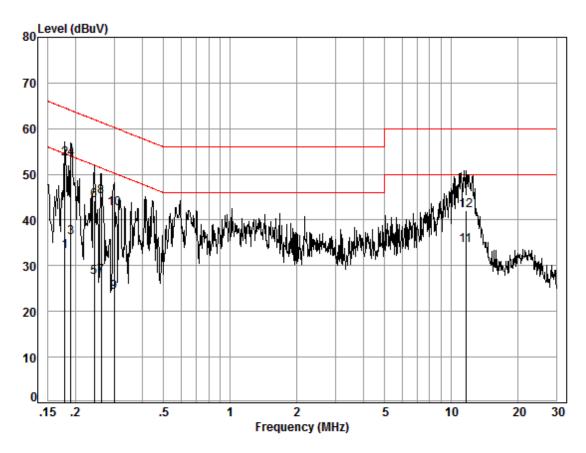
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.03	9.51	25.93	35.47	54.06	-18.59	Average
2	0.19	0.03	9.51	44.48	54.02	64.06	-10.04	QP
3	0.24	0.03	9.51	19.22	28.76	52.13	-23.37	Average
4	0.24	0.03	9.51	39.37	48.91	62.13	-13.22	QP
5	0.25	0.03	9.51	21.51	31.05	51.64	-20.59	Average
6	0.25	0.03	9.51	38.70	48.24	61.64	-13.40	QP
7	0.30	0.03	9.51	16.11	25.65	50.37	-24.72	Average
8	0.30	0.03	9.51	33.90	43.44	60.37	-16.93	QP
9	1.27	0.12	9.51	21.18	30.81	46.00	-15.19	Average
10	1.27	0.12	9.51	30.91	40.54	56.00	-15.46	QP
11	12.06	0.22	9.67	27.06	36.95	50.00	-13.05	Average
12	12.06	0.22	9.67	36.53	46.42	60.00	-13.58	QP



Report No.: SZEM180600503302

Page: 15 of 50

Mode:b; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 05033RG

Test mode: b

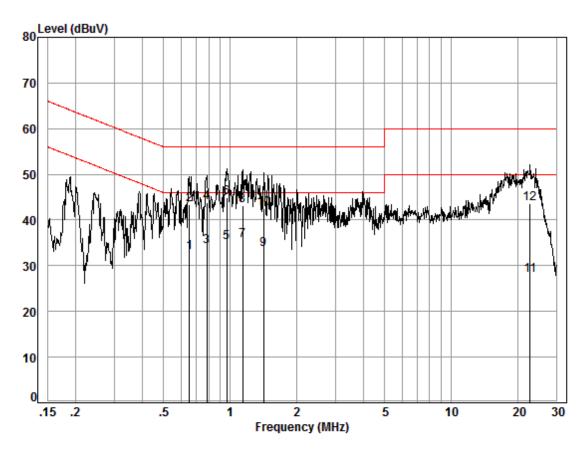
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.03	9.58	23.43	33.04	54.55	-21.51	Average
2	0.18	0.03	9.58	43.79	53.40	64.55	-11.15	QP
3	0.19	0.03	9.58	26.60	36.21	54.02	-17.81	Average
4	0.19	0.03	9.58	43.75	53.36	64.02	-10.66	QP
5	0.24	0.03	9.58	17.81	27.42	52.00	-24.58	Average
6	0.24	0.03	9.58	34.62	44.23	62.00	-17.77	QP
7	0.26	0.03	9.58	18.17	27.78	51.38	-23.60	Average
8	0.26	0.03	9.58	35.59	45.20	61.38	-16.18	QP
9	0.30	0.03	9.58	14.52	24.13	50.28	-26.15	Average
10	0.30	0.03	9.58	32.80	42.41	60.28	-17.87	QP
11	11.68	0.22	9.84	24.42	34.48	50.00	-15.52	Average
12	11.68	0.22	9.84	32.07	42.13	60.00	-17.87	QP



Report No.: SZEM180600503302

Page: 16 of 50

Mode:c; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 05033RG

Test mode: c

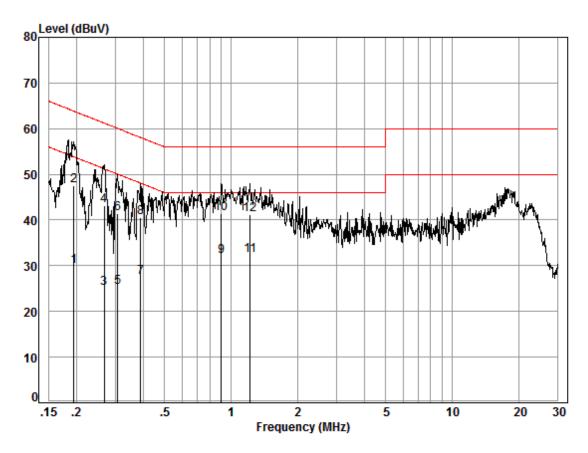
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.65	0.06	9.51	23.44	33.01	46.00	-12.99	Average
2	0.65	0.06	9.51	33.90	43.47	56.00	-12.53	QP
3	0.78	0.07	9.50	24.70	34.27	46.00	-11.73	Average
4	0.78	0.07	9.50	34.23	43.80	56.00	-12.20	QP
5	0.97	0.09	9.50	25.59	35.18	46.00	-10.82	Average
6	0.97	0.09	9.50	35.34	44.93	56.00	-11.07	QP
7	1.14	0.11	9.51	25.99	35.61	46.00	-10.39	Average
8	1.14	0.11	9.51	33.62	43.24	56.00	-12.76	QP
9	1.42	0.13	9.51	24.00	33.64	46.00	-12.36	Average
10	1.42	0.13	9.51	32.97	42.61	56.00	-13.39	QP
11	22.78	0.27	9.82	17.92	28.01	50.00	-21.99	Average
12	22.78	0.27	9.82	33.57	43.66	60.00	-16.34	QP



Report No.: SZEM180600503302

Page: 17 of 50

Mode:c; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 05033RG

Test mode: c

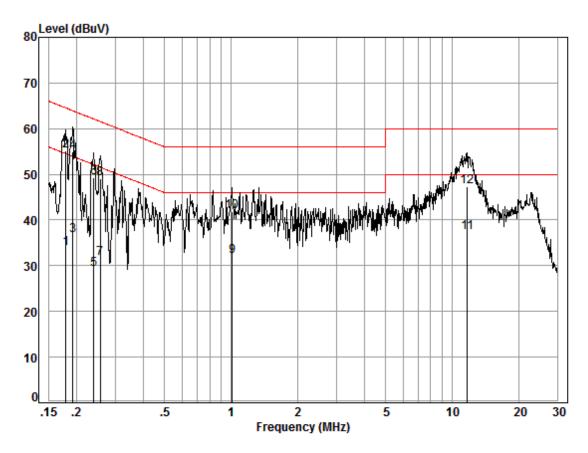
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19	0.03	9.57	20.26	29.86	53.84	-23.98	Average
2	0.19	0.03	9.57	37.81	47.41	63.84	-16.43	QP
3	0.27	0.03	9.58	15.39	25.00	51.20	-26.20	Average
4	0.27	0.03	9.58	33.57	43.18	61.20	-18.02	QP
5	0.31	0.03	9.58	15.60	25.21	50.06	-24.85	Average
6	0.31	0.03	9.58	31.71	41.32	60.06	-18.74	QP
7	0.39	0.04	9.59	17.82	27.45	48.08	-20.63	Average
8	0.39	0.04	9.59	30.95	40.58	58.08	-17.50	QP
9	0.90	0.08	9.61	22.31	32.00	46.00	-14.00	Average
10	0.90	0.08	9.61	31.73	41.42	56.00	-14.58	QP
11	1.22	0.11	9.64	22.57	32.32	46.00	-13.68	Average
12	1.22	0.11	9.64	31.48	41.23	56.00	-14.77	QP



Report No.: SZEM180600503302

Page: 18 of 50

Mode:d; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 05033RG

Test mode: d

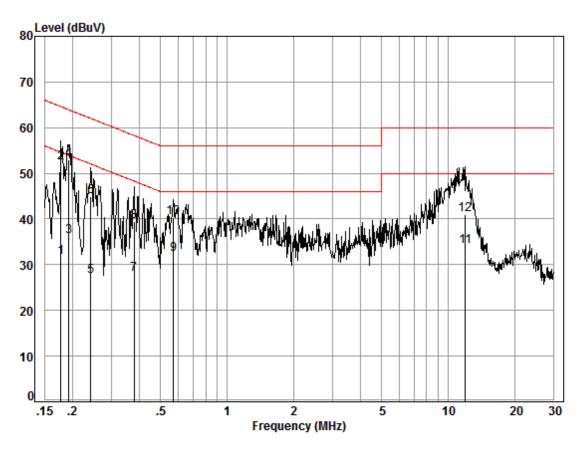
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.03	9.51	24.28	33.82	54.55	-20.73	Average
2	0.18	0.03	9.51	45.55	55.09	64.55	-9.46	QP
3	0.19	0.03	9.50	27.17	36.70	53.93	-17.23	Average
4	0.19	0.03	9.50	45.38	54.91	63.93	-9.02	QP
5	0.24	0.03	9.51	19.74	29.28	52.13	-22.85	Average
6	0.24	0.03	9.51	39.65	49.19	62.13	-12.94	QP
7	0.26	0.03	9.51	22.01	31.55	51.56	-20.01	Average
8	0.26	0.03	9.51	39.44	48.98	61.56	-12.58	QP
9	1.01	0.10	9.50	22.39	31.99	46.00	-14.01	Average
10	1.01	0.10	9.50	32.25	41.85	56.00	-14.15	QP
11	11.74	0.22	9.66	27.34	37.22	50.00	-12.78	Average
12	11.74	0.22	9.66	37.34	47.22	60.00	-12.78	QP



Report No.: SZEM180600503302

Page: 19 of 50

Mode:d; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 05033RG

Test mode: d

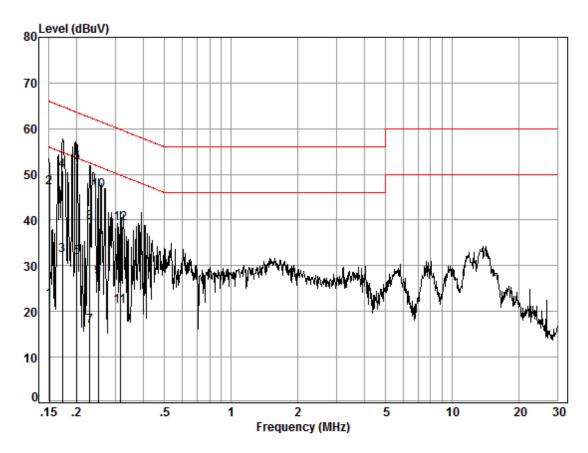
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.03	9.59	22.04	31.66	54.64	-22.98	Average
2	0.18	0.03	9.59	42.71	52.33	64.64	-12.31	QP
3	0.19	0.03	9.57	26.66	36.26	53.93	-17.67	Average
4	0.19	0.03	9.57	43.32	52.92	63.93	-11.01	QP
5	0.24	0.03	9.58	17.95	27.56	52.04	-24.48	Average
6	0.24	0.03	9.58	35.32	44.93	62.04	-17.11	QP
7	0.38	0.03	9.59	18.20	27.82	48.30	-20.48	Average
8	0.38	0.03	9.59	29.94	39.56	58.30	-18.74	QP
9	0.57	0.05	9.61	22.51	32.17	46.00	-13.83	Average
10	0.57	0.05	9.61	30.73	40.39	56.00	-15.61	QP
11	12.00	0.22	9.85	23.89	33.96	50.00	-16.04	Average
12	12.00	0.22	9.85	30.81	40.88	60.00	-19.12	QP



Report No.: SZEM180600503302

Page: 20 of 50

Mode:g; Line:Live Line



Site : Shielding Room

Condition: Line Job No. : 05033RG

Test mode: g

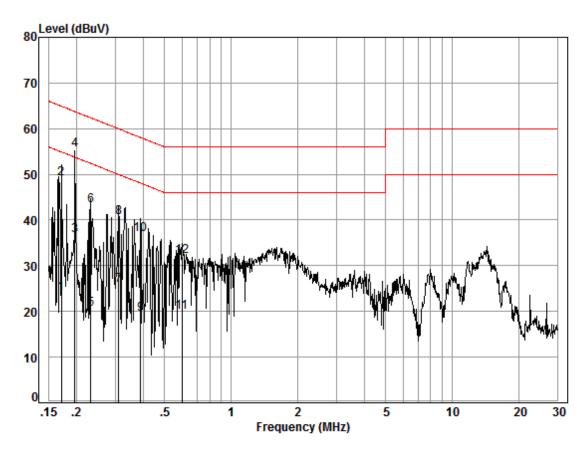
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15	0.02	9.51	12.92	22.45	55.94	-33.49	Average
2	0.15	0.02	9.51	37.64	47.17	65.94	-18.77	QP
3	0.17	0.02	9.52	22.75	32.29	54.81	-22.52	Average
4	0.17	0.02	9.52	41.25	50.79	64.81	-14.02	QP
5	0.20	0.03	9.50	22.33	31.86	53.58	-21.72	Average
6	0.20	0.03	9.50	43.01	52.54	63.58	-11.04	QP
7	0.23	0.03	9.51	7.23	16.77	52.48	-35.71	Average
8	0.23	0.03	9.51	29.98	39.52	62.48	-22.96	QP
9	0.25	0.03	9.51	18.01	27.55	51.73	-24.18	Average
10	0.25	0.03	9.51	36.80	46.34	61.73	-15.39	QP
11	0.31	0.03	9.51	11.69	21.23	49.84	-28.61	Average
12	0.31	0.03	9.51	29.69	39.23	59.84	-20.61	QP



Report No.: SZEM180600503302

Page: 21 of 50

Mode:g; Line:Neutral Line



Site : Shielding Room

Condition: Neutral Job No. : 05033RG

Test mode: g

	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	9.59	14.41	24.02	54.90	-30.88	Average
2	0.17	0.02	9.59	39.49	49.10	64.90	-15.80	QP
3	0.20	0.03	9.57	26.97	36.57	53.76	-17.19	Average
4	0.20	0.03	9.57	45.67	55.27	63.76	-8.49	QP
5	0.23	0.03	9.58	10.85	20.46	52.39	-31.93	Average
6	0.23	0.03	9.58	33.65	43.26	62.39	-19.13	QP
7	0.31	0.03	9.58	16.07	25.68	49.97	-24.29	Average
8	0.31	0.03	9.58	30.98	40.59	59.97	-19.38	QP
9	0.39	0.04	9.59	9.68	19.31	48.08	-28.77	Average
10	0.39	0.04	9.59	27.21	36.84	58.08	-21.24	QP
11	0.60	0.06	9.62	10.07	19.75	46.00	-26.25	Average
12	0.60	0.06	9.62	22.42	32.10	56.00	-23.90	QP



Report No.: SZEM180600503302

Page: 22 of 50

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: 10m

Limit:

30 MHz - 88 MHz $29.5 (\text{dB}\mu\text{V/m}) \text{ quasi-peak}$ 88 MHz - 216 MHz $33.1 (\text{dB}\mu\text{V/m}) \text{ quasi-peak}$ 216 MHz - 960 MHz $35.6 (\text{dB}\mu\text{V/m}) \text{ quasi-peak}$ $43.5 (\text{dB}\mu\text{V/m}) \text{ quasi-peak}$

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



Report No.: SZEM180600503302

Page: 23 of 50

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 51 % RH Atmospheric Pressure: 1010 mbar

Test Mode: a: BT+WLAN+GPS Rx+playing

MP4+earphone(BOLUO)+battery(HARBIN)+adapter(BYD)

b: BT+WLAN+GPS Rx+playing

MP4+earphone(BOLUO)+battery(HARBIN)+adapter(PHITEK)

c: BT+WLAN+GPS Rx+playing

MP4+earphone(BOLUO)+battery(HARBIN)+adapter(HUNTKEY)

d: BT+WLAN+GPS

Rx+camera(Front)+earphone(BOLUO)+battery(SCUD)+adapter(BYD)

e: BT+WLAN+GPS

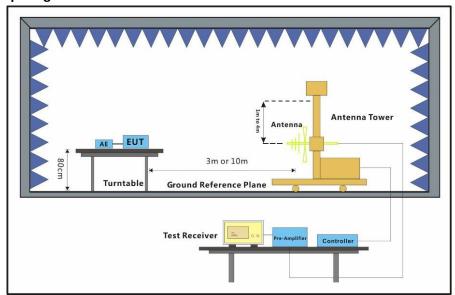
Rx+camera(Back)+earphone(Lianchuang)+battery(SCUD)+adapter(BYD)

f: BT+WLAN+GPS

Rx+camera(Back)+earphone(GoerTek)+battery(SCUD)+adapter(BYD)

g: Transfer data between the EUT and the PC

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

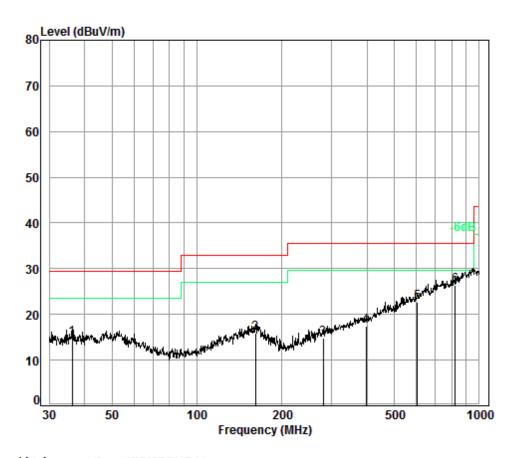
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



Report No.: SZEM180600503302

Page: 24 of 50

Mode:a; Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 05033RG

Test Mode: a

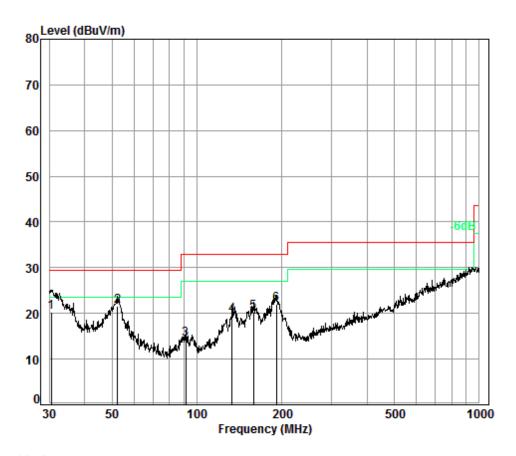
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.13	6.72	12.80	32.57	27.94	14.89	29.50	-14.61
2	161.47	7.50	13.24	32.52	27.65	15.87	33.00	-17.13
3	280.02	8.00	12.16	32.46	27.19	14.89	35.60	-20.71
4	397.63	8.30	14.82	32.43	26.70	17.39	35.60	-18.21
5	603.54	8.91	18.78	32.40	27.39	22.68	35.60	-12.92
6 pp	821.71	9.30	21.39	32.19	27.81	26.31	35.60	-9.29



Report No.: SZEM180600503302

Page: 25 of 50

Mode:a; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 05033RG

Test Mode: a

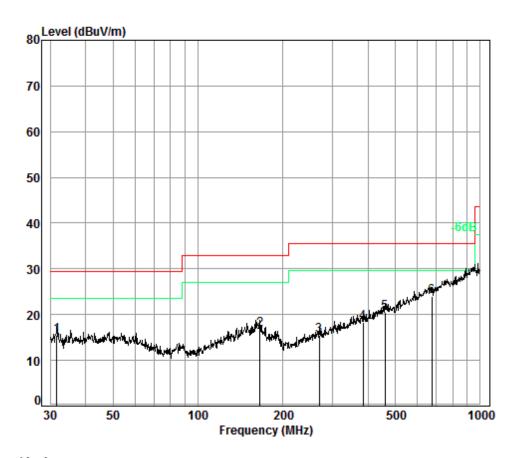
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 qp	30.53	6.70	12.49	32.61	33.60	20.18	29.50	-9.32
2 pp	52.39	6.95	12.58	32.52	34.68	21.69	29.50	-7.81
3	91.49	7.20	8.80	32.62	31.02	14.40	33.00	-18.60
4	133.15	7.37	12.27	32.55	32.63	19.72	33.00	-13.28
5	158.67	7.49	13.39	32.51	31.98	20.35	33.00	-12.65
6	191.07	7.56	9.74	32.53	37.21	21.98	33.00	-11.02



Report No.: SZEM180600503302

Page: 26 of 50

Mode:b; Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 05033RG

Test Mode: b

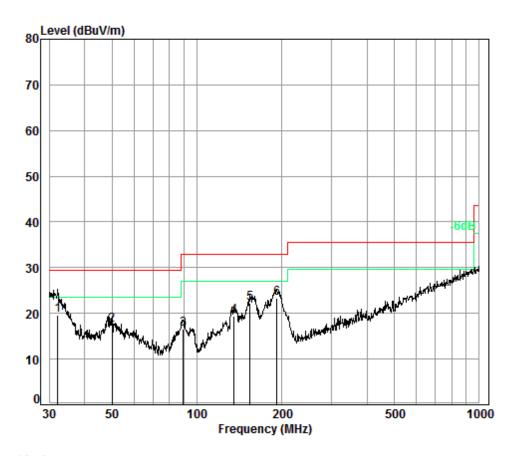
	nouc. D							
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.62	6.70	12.53	32.60	28.86	15.49	29.50	-14.01
2	166.07	7.50	12.79	32.52	28.99	16.76	33.00	-16.24
3	269.43	7.95	11.83	32.46	28.06	15.38	35.60	-20.22
4	383.93	8.30	14.56	32.43	27.91	18.34	35.60	-17.26
5	459.11	8.45	16.28	32.42	28.16	20.47	35.60	-15.13
6 pi	p 672.84	9.08	19.81	32.39	27.37	23.87	35.60	-11.73



Report No.: SZEM180600503302

Page: 27 of 50

Mode:b; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 05033RG

Test Mode: b

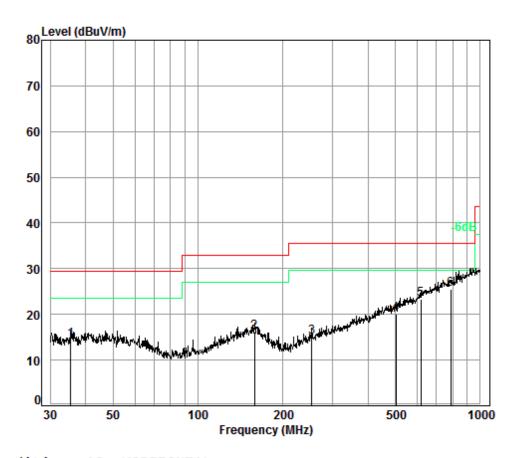
	Juc. D							
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 qp	32.18	6.70	12.55	32.60	32.90	19.55	29.50	-9.95
2	50.06	6.90	12.78	32.51	30.27	17.44	29.50	-12.06
3	89.59	7.20	8.68	32.62	33.33	16.59	33.00	-16.41
4	135.51	7.38	12.44	32.54	32.14	19.42	33.00	-13.58
5	154.28	7.47	13.40	32.51	33.78	22.14	33.00	-10.86
6 pp	191.75	7.56	9.70	32.53	38.63	23.36	33.00	-9.64



Report No.: SZEM180600503302

Page: 28 of 50

Mode:c; Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 05033RG

Test Mode: c

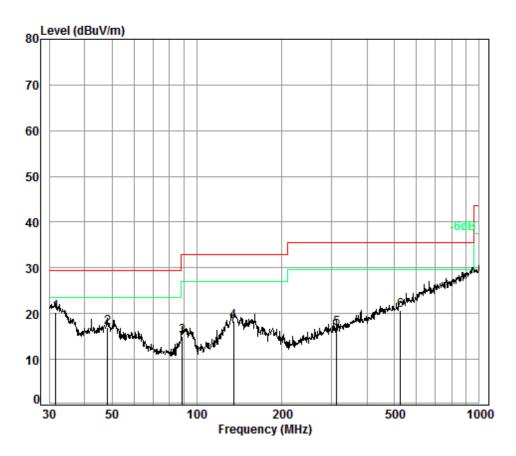
	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	35.50	6.71	12.71	32.58	27.56	14.40	29.50	-15.10
2	158.67	7.49	13.39	32.51	27.79	16.16	33.00	-16.84
3	252.95	7.87	11.31	32.48	28.40	15.10	35.60	-20.50
4	502.94	8.62	16.85	32.42	27.07	20.12	35.60	-15.48
5	616.37	8.94	19.05	32.40	27.72	23.31	35.60	-12.29
6 pp	785.09	9.26	21.13	32.38	27.42	25.43	35.60	-10.17



Report No.: SZEM180600503302

Page: 29 of 50

Mode:c; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 05033RG

Test Mode: c

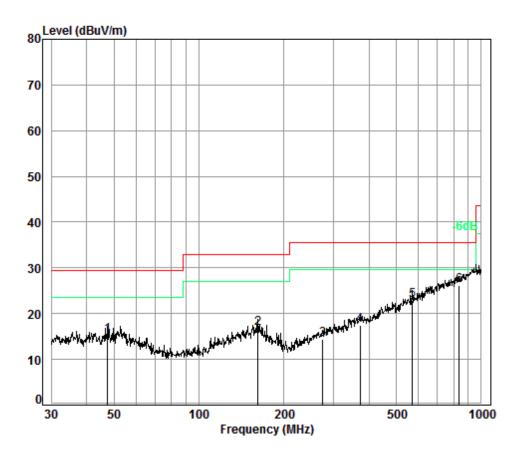
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	31.62	6.70	12.53	32.60	33.60	20.23	29.50	-9.27
2	48.33	6.87	12.82	32.52	29.78	16.95	29.50	-12.55
3	88.96	7.19	8.68	32.62	31.88	15.13	33.00	-17.87
4	135.03	7.38	12.40	32.54	31.06	18.30	33.00	-14.70
5	312.18	8.08	13.01	32.44	28.03	16.68	35.60	-18.92
6	526.40	8.72	17.30	32.42	27.11	20.71	35.60	-14.89



Report No.: SZEM180600503302

Page: 30 of 50

Mode:d; Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 05033RG

Test Mode: d

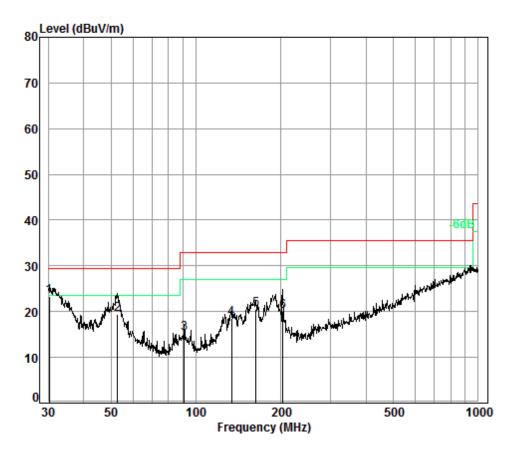
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	47.40	6.05	42.04	30.50	27.00	45 45	20 50	44.25
1	47.49	6.85	12.84	32.52	27.98	15.15	29.50	-14.35
2	162.04	7.50	13.19	32.52	28.54	16.71	33.00	-16.29
3	275.16	7.98	12.01	32.46	26.84	14.37	35.60	-21.23
4	372.00	8.30	14.33	32.43	27.34	17.54	35.60	-18.06
5	570.61	8.83	18.10	32.41	28.47	22.99	35.60	-12.61
6 pr	836.24	9.30	21.50	32.06	27.48	26.22	35.60	-9.38



Report No.: SZEM180600503302

Page: 31 of 50

Mode:d; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 05033RG

Test Mode: d

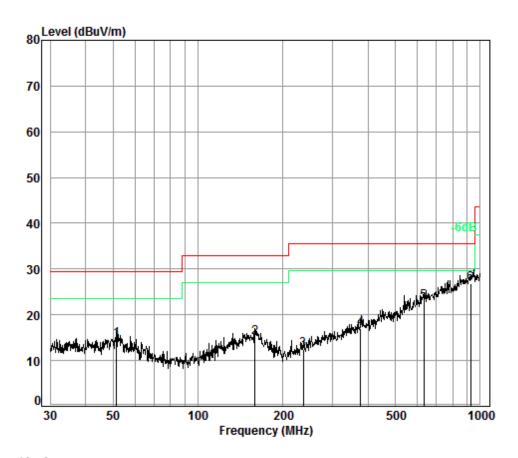
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	20.20	6 70	40.40	20.64	26.60	22.26	20 50	
1 pp	30.32	6.70	12.48	32.61	36.69	23.26	29.50	-6.24
2 qp	52.76	6.96	12.55	32.52	32.40	19.39	29.50	-10.11
3	91.17	7.20	8.78	32.62	31.79	15.15	33.00	-17.85
4	133.62	7.37	12.30	32.55	31.38	18.50	33.00	-14.50
5	163.18	7.50	13.07	32.52	32.48	20.53	33.00	-12.47
6	203.52	7.62	9.38	32.53	35.60	20.07	33.00	-12.93



Report No.: SZEM180600503302

Page: 32 of 50

Mode:e; Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 05033RG

Test Mode: e

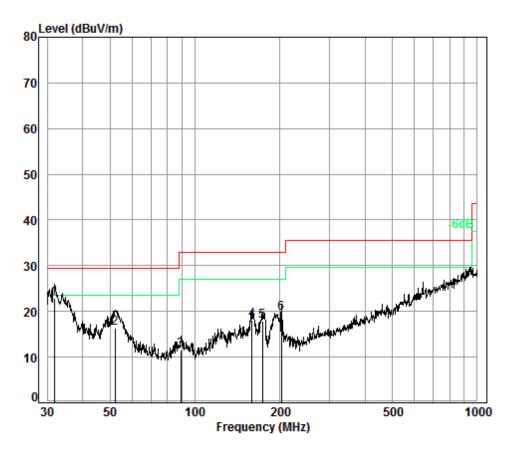
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	——dB	dBuV	dBuV/m	dBuV/m	——dB
1	51.48	6.93	12.66	32.52	27.58	14.65	29.50	-14.85
2	159.23			32.51				
3	236.64	7.78	10.97	32.49	26.17	12.43	35.60	-23.17
4	377.26	8.30	14.43	32.43	26.66	16.96	35.60	-18.64
5	631.69	8.98	19.31	32.40	27.06	22.95	35.60	-12.65
6 pp	925.76	9.51	22.57	31.34	25.98	26.72	35.60	-8.88



Report No.: SZEM180600503302

Page: 33 of 50

Mode:e; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 05033RG

Test Mode: e

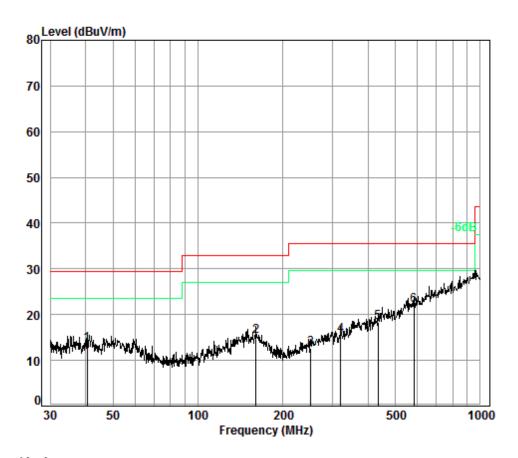
	Frea			Preamp Factor				
_	MHz	dB		dB				
1								
1 pp 2	31.84 52.21			32.60 32.52				
3	89.28	7.19	8.68	32.62	28.27	11.52	33.00	-21.48
4	159.23	7.50	13.39	32.51	29.61	17.99	33.00	-15.01
5	173.81	7.50	11.84	32.52	31.06	17.88	33.00	-15.12
6	202.81	7.61	9.36	32.53	35.10	19.54	33.00	-13.46



Report No.: SZEM180600503302

Page: 34 of 50

Mode:f; Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 05033RG

Test Mode: f

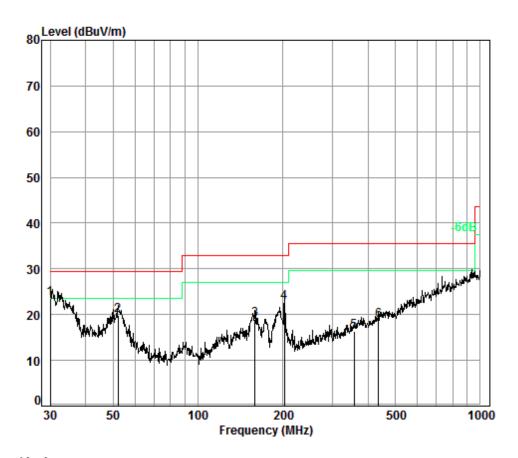
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	40.56	6.80	13.27	32.55	25.97	13.49	29.50	-16.01
2	160.35	7.50	13.36	32.51	27.00	15.35	33.00	-17.65
3	251.18	7.86	11.27	32.48	25.97	12.62	35.60	-22.98
4	319.94	8.10	13.23	32.44	26.64	15.53	35.60	-20.07
5	434.07	8.39	15.78	32.43	26.58	18.32	35.60	-17.28
6 рр	582.74	8.86	18.35	32.41	27.18	21.98	35.60	-13.62



Report No.: SZEM180600503302

Page: 35 of 50

Mode:f; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 05033RG

Test Mode: f

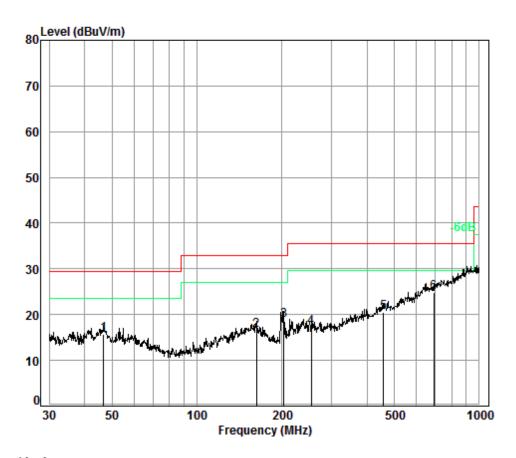
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	30.00	6.70	12.47	32.61	37.01	23.57	29.50	-5.93
2	52.21	6.95	12.60	32.52	32.89	19.92	29.50	-9.58
3	159.23	7.50	13.39	32.51	30.56	18.94	33.00	-14.06
4	202.81	7.61	9.36	32.53	38.17	22.61	33.00	-10.39
5	357.93	8.29	14.02	32.43	26.41	16.29	35.60	-19.31
6	437.12	8.39	15.86	32.43	26.82	18.64	35.60	-16.96



Report No.: SZEM180600503302

Page: 36 of 50

Mode:g; Polarization:Horizontal



Condition: 10m HORIZONTAL

Job No. : 05033RG

Test Mode: g

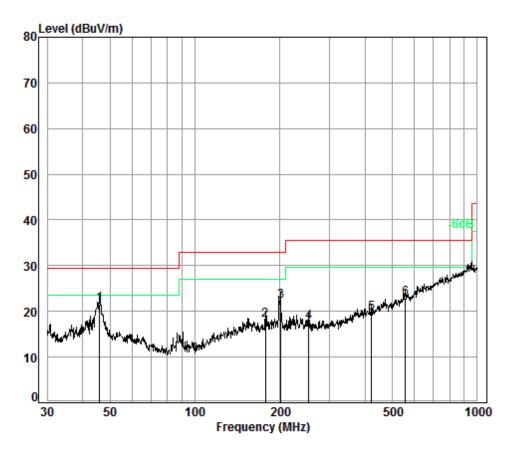
	nouc. 6							
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	46.67	6.83	12.86	32.52	28.45	15.62	29.50	-13.88
2	162.61	7.50	13.13	32.52	28.43	16.54	33.00	-16.46
3	203.52	7.62	9.38	32.53	34.28	18.75	33.00	-14.25
4	253.84	7.87	11.33	32.48	30.44	17.16	35.60	-18.44
5	457.51	8.44	16.26	32.42	28.19	20.47	35.60	-15.13
6 pi	689.56	9.12	20.00	32.39	28.15	24.88	35.60	-10.72



Report No.: SZEM180600503302

Page: 37 of 50

Mode:g; Polarization:Vertical



Condition: 10m VERTICAL

Job No. : 05033RG

Test Mode: g

	_	Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	46.02	6.82	12.87	32.53	34.43	21.59	29.50	-7.91
2	177.51			32.52				
3	201.39	7.61	9.32	32.53	37.92	22.32	33.00	-10.68
4	252.95	7.87	11.31	32.48	31.01	17.71	35.60	-17.89
5	422.06	8.36	15.47	32.43	28.25	19.65	35.60	-15.95
6	556.77	8.79	17.85	32.41	28.70	22.93	35.60	-12.67



Report No.: SZEM180600503302

Page: 38 of 50

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



Report No.: SZEM180600503302

Page: 39 of 50

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.6 °C Humidity: 55 % RH Atmospheric Pressure: 1010 mbar

Pretest these a: BT+WLAN+GPS Rx+playing

modes to find MP4+earphone(BOLUO)+battery(HARBIN)+adapter(BYD)

the worst case: b: BT+WLAN+GPS Rx+playing

MP4+earphone(BOLUO)+battery(HARBIN)+adapter(PHITEK)

c: BT+WLAN+GPS Rx+playing

MP4+earphone(BOLUO)+battery(HARBIN)+adapter(HUNTKEY)

d: BT+WLAN+GPS

Rx+camera(Front)+earphone(BOLUO)+battery(SCUD)+adapter(HUNTKEY)

e: BT+WLAN+GPS

Rx+camera(Back)+earphone(Lianchuang)+battery(HARBIN)+adapter(HUNTKEY)

f: BT+WLAN+GPS

Rx+camera(Back)+earphone(GoerTek)+battery(HARBIN)+adapter(HUNTKEY)

g: Transfer data between the EUT and the PC

The worst case a: BT+WLAN+GPS Rx+playing

for final test: MP4+earphone(BOLUO)+battery(HARBIN)+adapter(BYD)

b: BT+WLAN+GPS Rx+playing

MP4+earphone(BOLUO)+battery(HARBIN)+adapter(PHITEK)

c: BT+WLAN+GPS Rx+playing

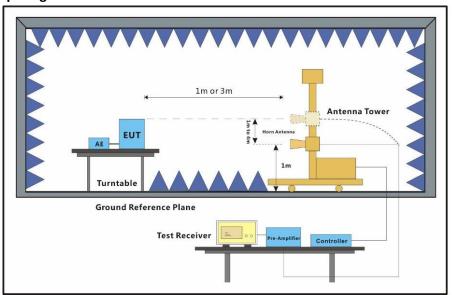
MP4+earphone(BOLUO)+battery(HARBIN)+adapter(HUNTKEY)

d: BT+WLAN+GPS

Rx+camera(Front)+earphone(BOLUO)+battery(SCUD)+adapter(HUNTKEY)

g: Transfer data between the EUT and the PC

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.

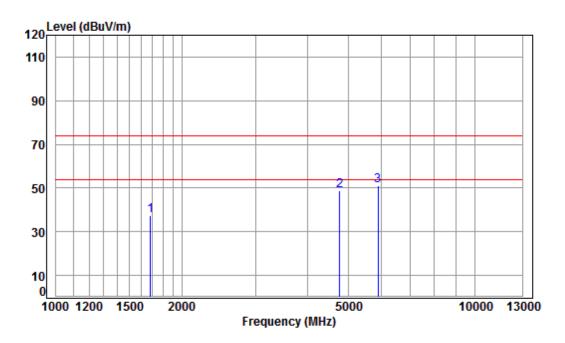
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Report No.: SZEM180600503302

Page: 40 of 50

Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No : 05033RG

Mode : a

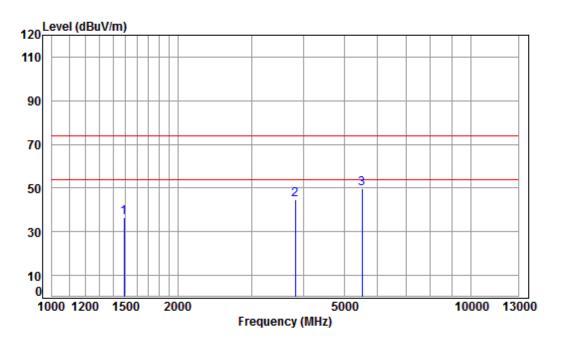
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1683.180	5.25	26.60	41.52	47.07	37.40	74.00	-36.60	Peak
2	4756.391	7.84	33.92	42.46	49.31	48.61	74.00	-25.39	Peak
3 рр	5884.843	10.19	34.99	41.70	47.41	50.89	74.00	-23.11	Peak



Report No.: SZEM180600503302

Page: 41 of 50

Mode:a; Polarization:Vertical



Condition: 3m VERTICAL

Job No : 05033RG

Mode : a

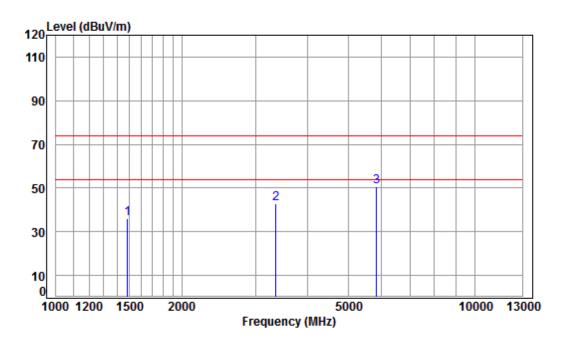
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1488.200	5.44	25.76	41.40	46.53	36.33	74.00	-37.67	Peak
2	3814.858	6.80	32.35	42.29	47.66	44.52	74.00	-29.48	Peak
3 pp	5505.190	8.87	34.61	42.03	48.49	49.94	74.00	-24.06	Peak



Report No.: SZEM180600503302

Page: 42 of 50

Mode:b; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No : 05033RG

Mode : b

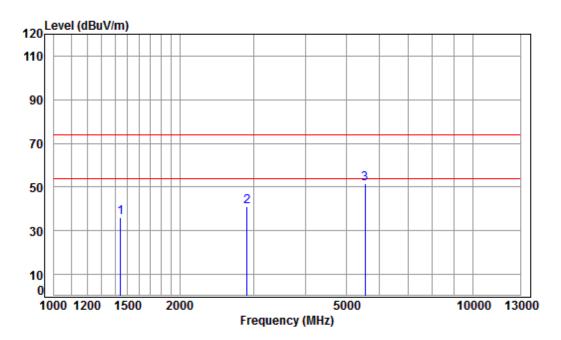
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1484.387	5.43	25.74	41.40	46.22	35.99	74.00	-38.01	Peak
2	3355.686	6.33	31.48	42.19	47.30	42.92	74.00	-31.08	Peak
3 рр	5824.774	9.98	34.93	41.75	47.50	50.66	74.00	-23.34	Peak



Report No.: SZEM180600503302

Page: 43 of 50

Mode:b; Polarization:Vertical



Condition: 3m VERTICAL

Job No : 05033RG

Mode : b

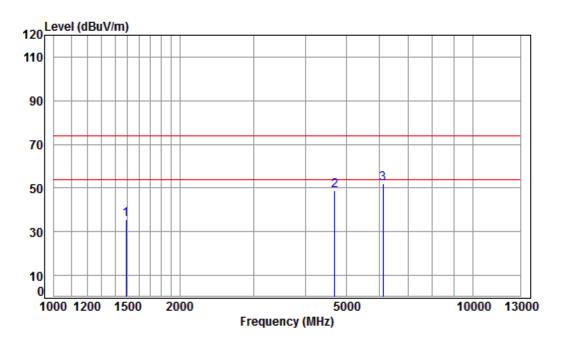
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1443.092	5.30	25.59	41.37	46.71	36.23	74.00	-37.77	Peak
2	2891.829	5.91	30.46	42.06	46.84	41.15	74.00	-32.85	Peak
3 рр	5533.504	8.97	34.63	42.00	49.79	51.39	74.00	-22.61	Peak



Report No.: SZEM180600503302

Page: 44 of 50

Mode:c; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No : 05033RG

Mode : c

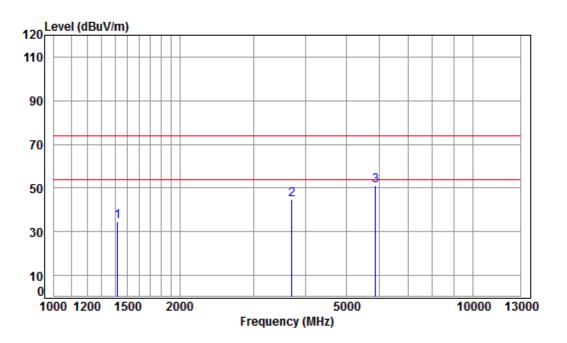
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1488.200	5.44	25.76	41.40	45.90	35.70	74.00	-38.30	Peak
2	4683.752	7.76	33.83	42.45	49.55	48.69	74.00	-25.31	Peak
3 рр	6115.669	10.80	35.22	41.51	47.65	52.16	74.00	-21.84	Peak



Report No.: SZEM180600503302

Page: 45 of 50

Mode:c; Polarization:Vertical



Condition: 3m VERTICAL

Job No : 05033RG

Mode : c

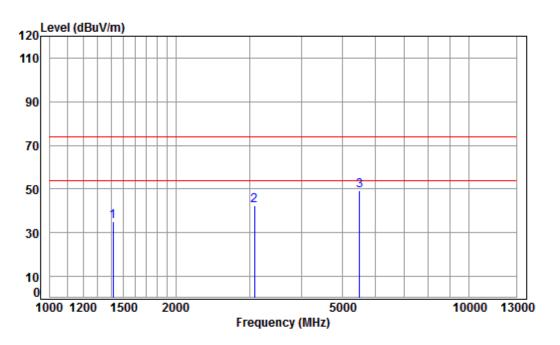
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1417.413	5.21	25.49	41.35	45.53	34.88	74.00	-39.12	Peak
2	3699.228	6.68	32.11	42.26	48.04	44.57	74.00	-29.43	Peak
3 рр	5854.731	10.09	34.96	41.73	47.56	50.88	74.00	-23.12	Peak



Report No.: SZEM180600503302

Page: 46 of 50

Mode:d; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No : 05033RG

Mode : d

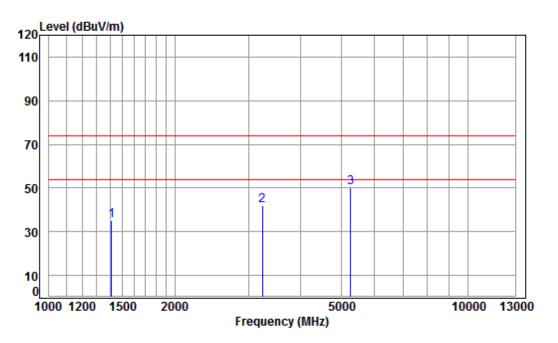
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1413.782	5.20	25.48	41.35	45.95	35.28	74.00	-38.72	Peak
2	3083.338	6.07	31.04	42.12	47.42	42.41	74.00	-31.59	Peak
3 pp	5491.088	8.84	34.59	42.04	48.00	49.39	74.00	-24.61	Peak



Report No.: SZEM180600503302

Page: 47 of 50

Mode:d; Polarization:Vertical



Condition: 3m VERTICAL

Job No : 05033RG

Mode : d

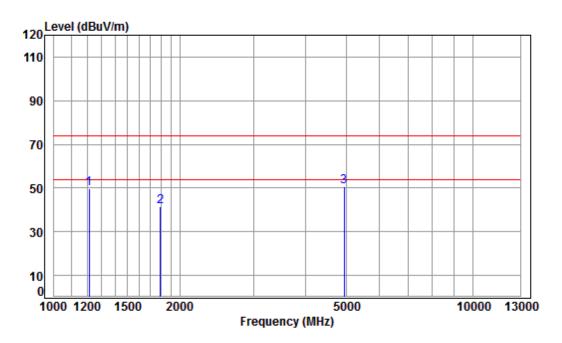
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1410.160	5.19	25.46	41.34	45.79	35.10	74.00	-38.90	Peak
2	3237.323	6.22	31.30	42.16	46.48	41.84	74.00	-32.16	Peak
3 рр	5256.799	8.49	34.41	42.25	49.63	50.28	74.00	-23.72	Peak



Report No.: SZEM180600503302

Page: 48 of 50

Mode:g; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No : 05033RG

Mode : g

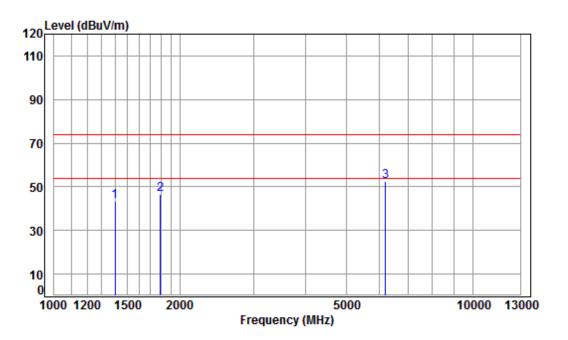
	Fre	Cable Q Loss		Preamp Factor					Remark	
	MH	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1215.23	3 4.48	24.66	41.20	61.96	49.90	74.00	-24.10	Peak	
2	1794.64	7 5.12	27.05	41.59	50.77	41.35	74.00	-32.65	Peak	
3	pp 4930.29	8.02	34.12	42.49	51.09	50.74	74.00	-23.26	Peak	



Report No.: SZEM180600503302

Page: 49 of 50

Mode:g; Polarization:Vertical



Condition: 3m VERTICAL

Job No : 05033RG

Mode : g

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1399.351 1794.647								
6194.606								



Report No.: SZEM180600503302

Page: 50 of 50

7 EUT Constructional Details (EUT Photos)

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1806005033RG.
- End of the Report -