

FCC Test Report

FCC ID: QIS501HW

Project No. : 1506C066
Equipment : Mobile WiFi
Model Name : 501HW
Applicant : Huawei Technologies Co.,Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District Shenzhen China

Date of Receipt : Jun. 08, 2015
Date of Test : Jun. 08, 2015 ~ Jul. 01, 2015
Issued Date : Jul. 02, 2015
Tested by : BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCE-1-1506C066	Original Issue.	Jul. 02, 2015

1. CERTIFICATION

Equipment : Mobile WiFi
Brand Name : HUAWEI
Model Name : 501HW
Applicant : Huawei Technologies Co.,Ltd.
Date of Test : Jun. 08, 2015 ~ Jul. 01, 2015
Test Sample : Engineering Sample
Standard(s) : FCC Part 15, Subpart B: 2014
ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCE-1-1506C066) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

EMC Emission				
Standard(s)	Test Item	Limit	Judgment	Remark
FCC Part15, Subpart B: 2014 ANSI C63.4-2009	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

NOTE:

(1) " N/A" denotes test is not applicable to this device.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of 1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95%** ◦

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	Note
C02	CISPR	150 KHz~30MHz	2.59	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	Note
CB08	CISPR	30MHz~200MHz	V	3.22	
		30MHz~200MHz	H	3.35	
		200MHz~ 1,000MHz	V	3.24	
		200MHz~ 1,000MHz	H	3.11	
		1,000MHz~18,000MHz	V	4.05	
		1,000MHz~18,000MHz	H	3.97	
		18,000MHz~40,000MHz	V	4.04	
		18,000MHz~40,000MHz	H	4.01	

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Mobile WiFi
Brand Name	HUAWEI
Model Name	501HW
Model Difference	N/A
Power Source	#1 DC voltage supplied from AC/DC adapter. (1) Brand / Model: SoftBank / ZTDAD1 (2) Brand / Model: SoftBank / ZTDAC1 (3) Brand / Model: SoftBank / SB-AC12-HDQC/WH (4) Brand / Model: SoftBank / SB-AC13-HDMU/WH #2 Supplied from battery. Brand / Model:HUAWEI / HB824666RBC
Power Rating	#1 (1) I/P: AC 100-240V 0.25A 50/60Hz O/P: DC 5V 1.8A (2) I/P: AC 100-240V 0.18A 50/60Hz O/P: DC 5V 1A (3) I/P: AC 100-240V 0.5A 50/60Hz O/P: DC 5.0V 1.8A / 9.0V 1.8A / 12.0V 1.35A (4) I/P: AC 100-240V 50/60Hz 0.18A O/P: DC 5.0V 1.0A #2 DC 3.8V 3000mAh

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT's maximum operating frequency is 5.7GHz.

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Traffic + 2.4G Wifi + Playing
Mode 2	Traffic + 5G Wifi + Playing
Mode 3	USB Copy (EUT with PC)

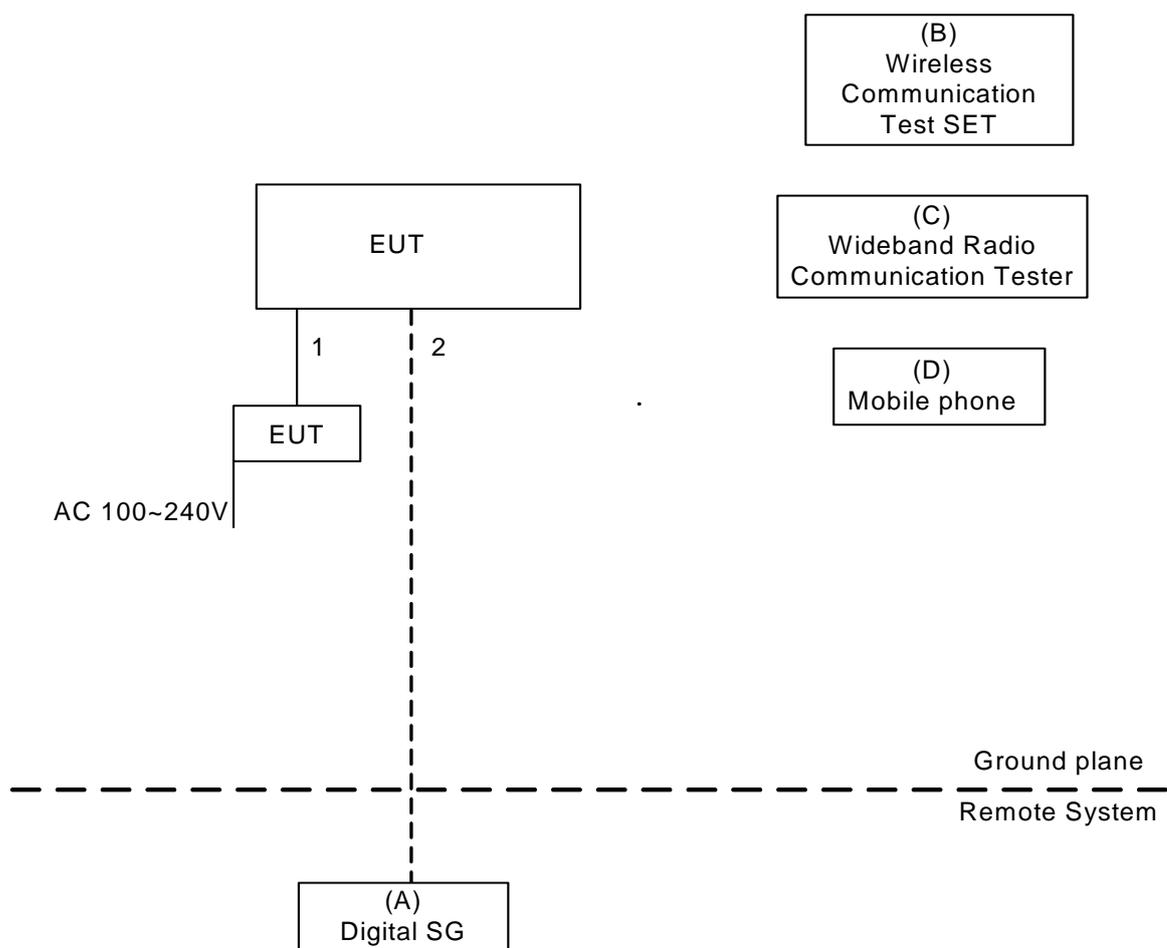
The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 1	Traffic + 2.4G Wifi + Playing
Mode 2	Traffic + 5G Wifi + Playing
Mode 3	USB Copy (EUT with PC)

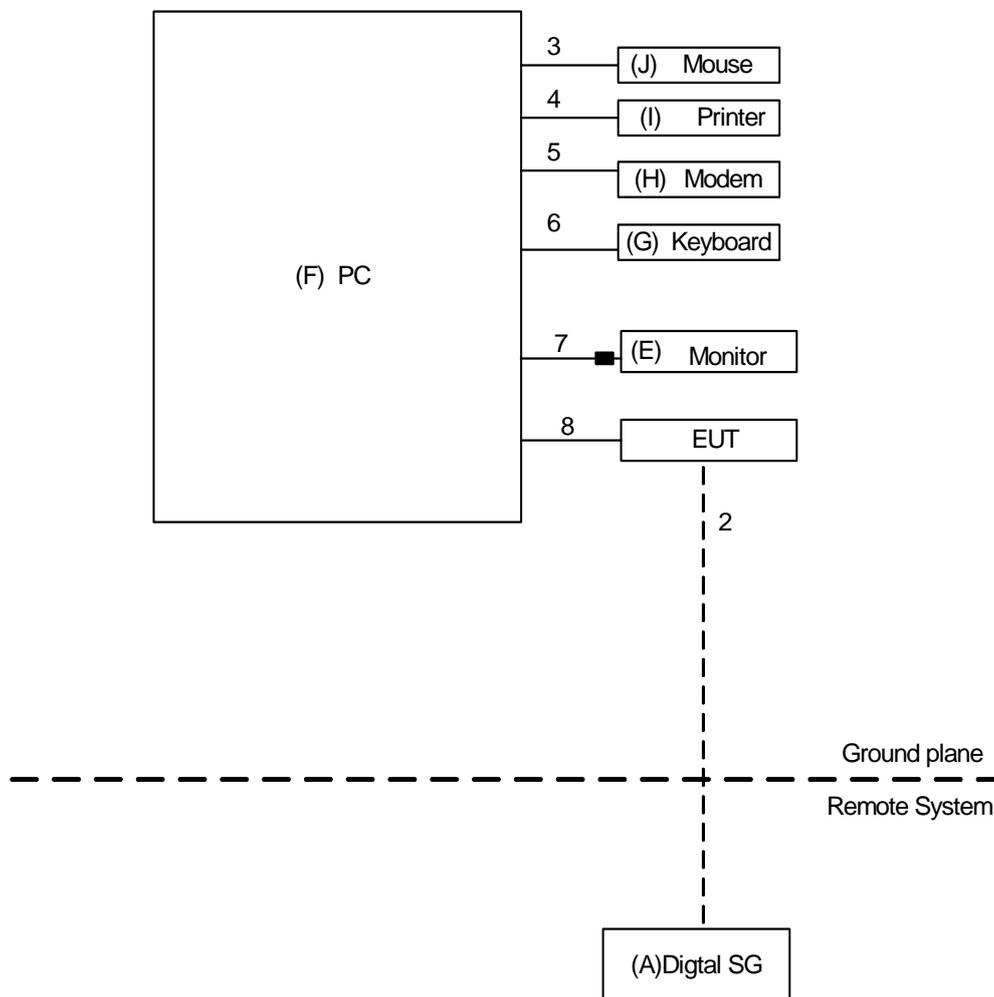
For Radiated Test	
Final Test Mode	Description
Mode 1	Traffic + 2.4G Wifi + Playing
Mode 2	Traffic + 5G Wifi + Playing
Mode 3	USB Copy (EUT with PC)

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Mode: Traffic + 2.4G Wifi + Playing / Traffic + 5G Wifi + Playing



Mode: USB Copy (EUT with PC)



■ Ferrite core

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
A	MULTI SYSTEM DIGITAL SIGNAL GENERATOR	EIDEN	3513B-011	DOC	HJ115044	
B	Wireless Communication Test SET	Agilent	(8960 Series) E5515C	N/A	MY48364183	
C	Wideband Radio Communication Tester	RS	CMW500	N/A	122125	
D	Mobile phone	HUAWEI	GL11S	DOC	35757-80400-13025	
E	LCD monitor	Dell	E177FPc	DOC	CNOFJ179-64180-6 AG-1WNS	
F	PC	Dell 745	DCSM	DOC	G7K832X	
G	USB Keyboard	Dell	L100	DOC	CNORH6596589071 T08NE	
H	Modem	ACEEX	DM-1414V	IFAXDM1414	0603002131	
I	Printer	SII	DPU-414	DOC	3018507 B	
J	USB Mouse	Dell	MO56UOA	DOC	FQJ000BS	

Item	Shielded Type	Ferrite Core	Length	Note
1	YES	NO	1.5m	USB Cable
2	YES	NO	1.5m	Coaxial Cable
3	YES	NO	1.8m	USB Cable
4	YES	NO	1.8m	Parallel Cable
5	YES	NO	1.8m	RS232 Cable
6	YES	NO	1.8m	USB Cable
7	YES	YES	1.8m	D-SUB Cable
8	YES	NO	1m	USB Cable

Note:

- (1) For detachable type I/O cable should be specified the length in m in 『Length』 column.

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150KHZ-30MHZ)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value – Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

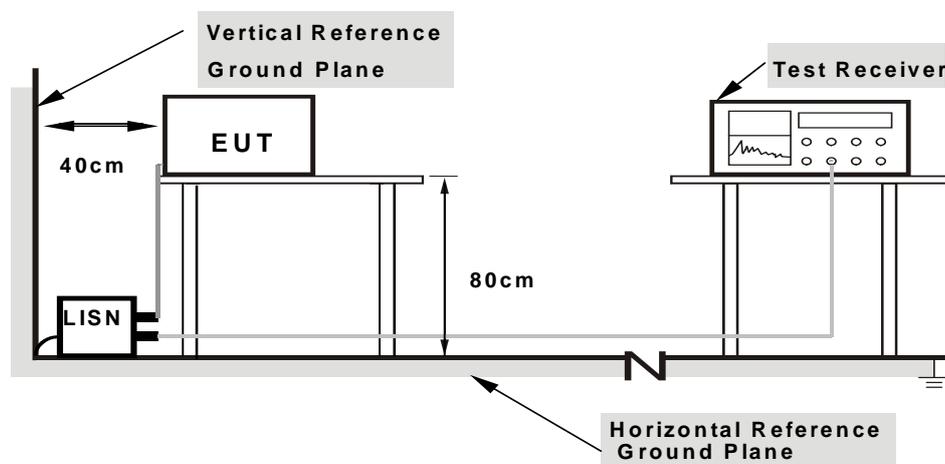
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use.

4.1.6 TEST RESULTS

Please refer to the Attachment A.

Temperature: 25°C Relative Humidity: 55%

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 'Note'. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency(MHz)	Class A (at 10m)		Class B (at 3m)	
	(uV/m) Field strength	(dBuV/m) Field strength	(uV/m) Field strength	(dBuV/m) Field strength
30 - 88	90	39	100	40
88 - 216	150	43.5	150	43.5
216 - 960	210	46.4	200	46
Above 960	300	49.5	500	54

CISPR 22 or CAN/CSA-CISPR 22-10:

Frequency (MHz)	Class A (at 10m)		Class B (at 10m)	
	dBuV/m		dBuV/m	
30 - 230	40		30	
230 - 1000	47		37	

Above 1 GHz

Measurement Method and Applied Limits:

ANSI C63.4:

Frequency (MHz)	Class A				Class B	
	(dBuV/m) (at 3m)		(dBuV/m) (at 10m)		(dBuV/m) (at 3m)	
	Peak	Average	Peak	Average	Peak	Average
Above 1000	80	60	69.5	49.5	74	54

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

NOTE:

- (1) The limit for radiated test was performed according to as following:
FCC Part 15, Subpart B: 2014.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
3m Emission level = 10m Emission level + 20log(10m/3m).
- (4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

4.2.2 TEST PROCEDURE

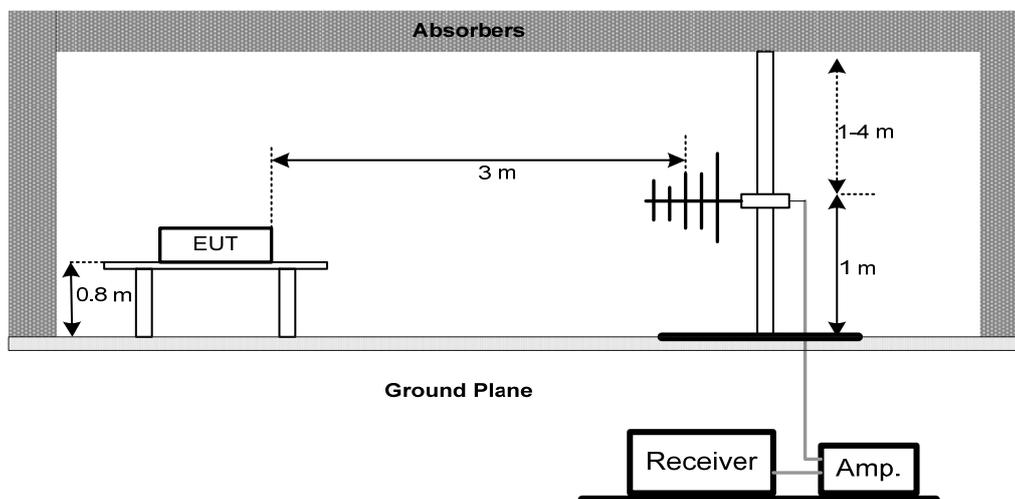
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then QuasiPeak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

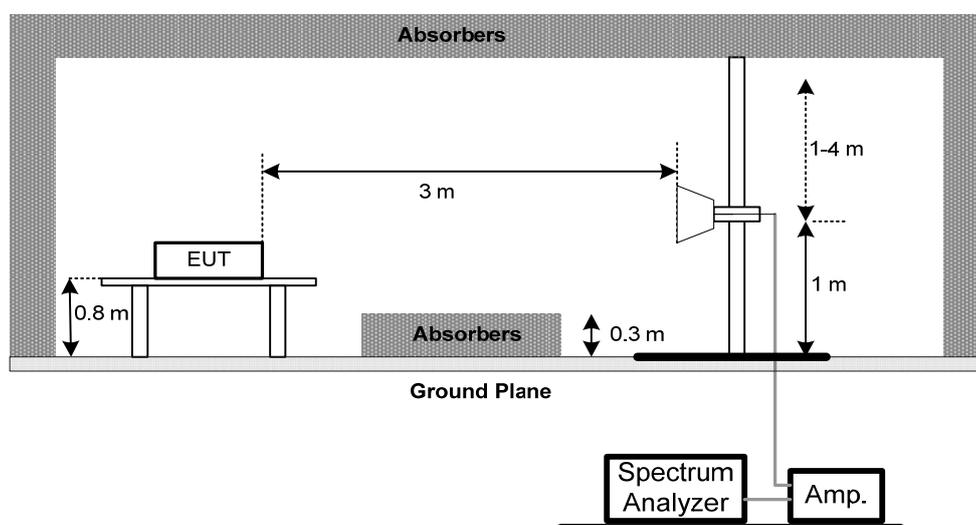
No deviation

4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 TEST RESULTS (30 TO 1000 MHZ)

Please refer to the Attachment B.

Temperature: 25°C Relative Humidity: 55%

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Modewith Detector BW=120KHz, SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

4.2.7 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment C

Temperature: 25°C Relative Humidity: 55%

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (3) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

5. MEASUREMENT INSTRUMENTS LIST

Conducted Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	100087	Dec. 07, 2015
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 14, 2016
3	EMI Test Receiver	Agilent	N9038A	MY51210215	Apr. 21, 2016
4	Measurement Software	EZ	EZ EMC (Version NB-03A)	N/A	N/A

Radiated Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9168	9168-352	Jul. 09, 2015
2	Pre-Amplifier	Anritsu	MH648A	M92649	Apr. 16, 2016
3	Test Cable	TIMES	LMR-400	12M	May. 12, 2016
4	Test Cable	TIMES	LMR-400	3M	May. 12, 2016
5	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 06, 2016
6	EMI Test Receiver	Agilent	N9038A	MY51210215	Apr. 21, 2016
7	Horn Antenna (1G)	Schwarzbeck	BBHA-9120-D	9120D-546	Sep. 29, 2015
8	Pre_Amplifier	Agilent	8449B	3008A01714	Apr. 15, 2016
9	Microflex Cable	HARBOUR INDUSTRIES	27478 LL142	1M	May. 14, 2016
10	Microflex Cable	AISI	S104-SMAP-1	10M	May. 14, 2016
11	Microflex Cable	HARBOUR INDUSTRIES	27478 LL142	3M	May. 14, 2016
12	Spectrum Analyzer	Agilent	N9020A	MY51160196	Jul. 23, 2015
13	Measurement Software	EZ	EZ EMC (Version NB-03A)	N/A	N/A
14	Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-546	Sep. 29, 2015
15	Horn Antenna (1G)	Schwarzbeck	BBHA 9170	BBHA9170187	Feb. 19, 2016

Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

6. EUT TEST PHOTO

Conducted Measurement Photos

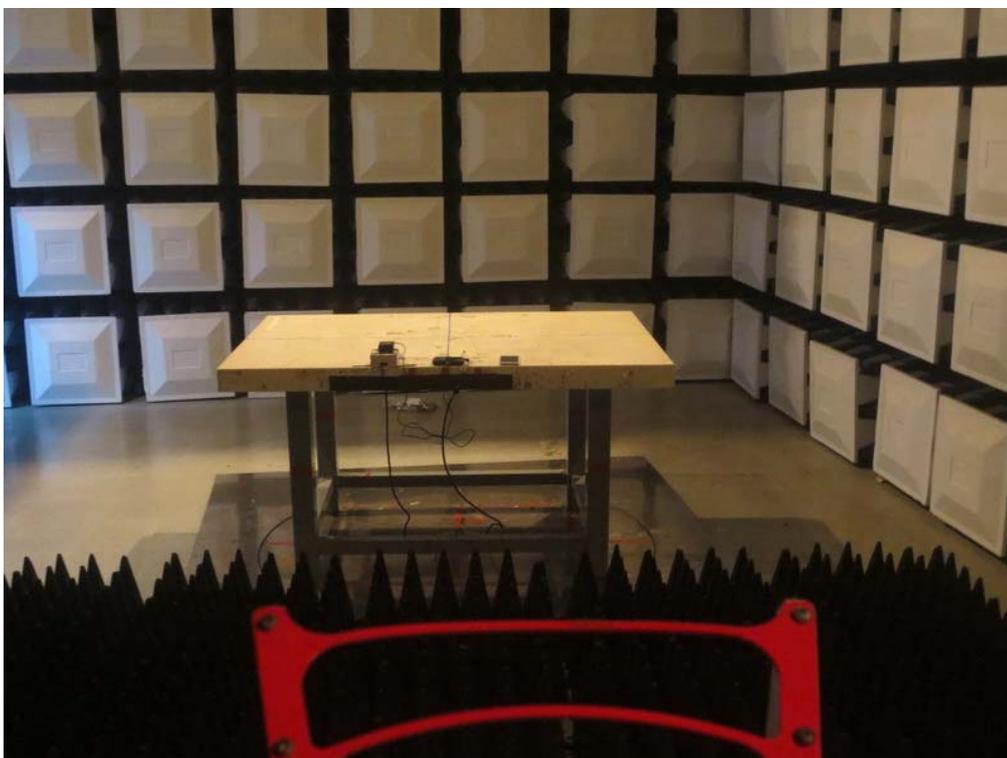
Traffic + 2.4G Wifi + Playing / Traffic + 5G Wifi + Playing



Radiated Measurement Photos - Below 1GHz
Traffic + 2.4G Wifi + Playing / Traffic + 5G Wifi + Playing



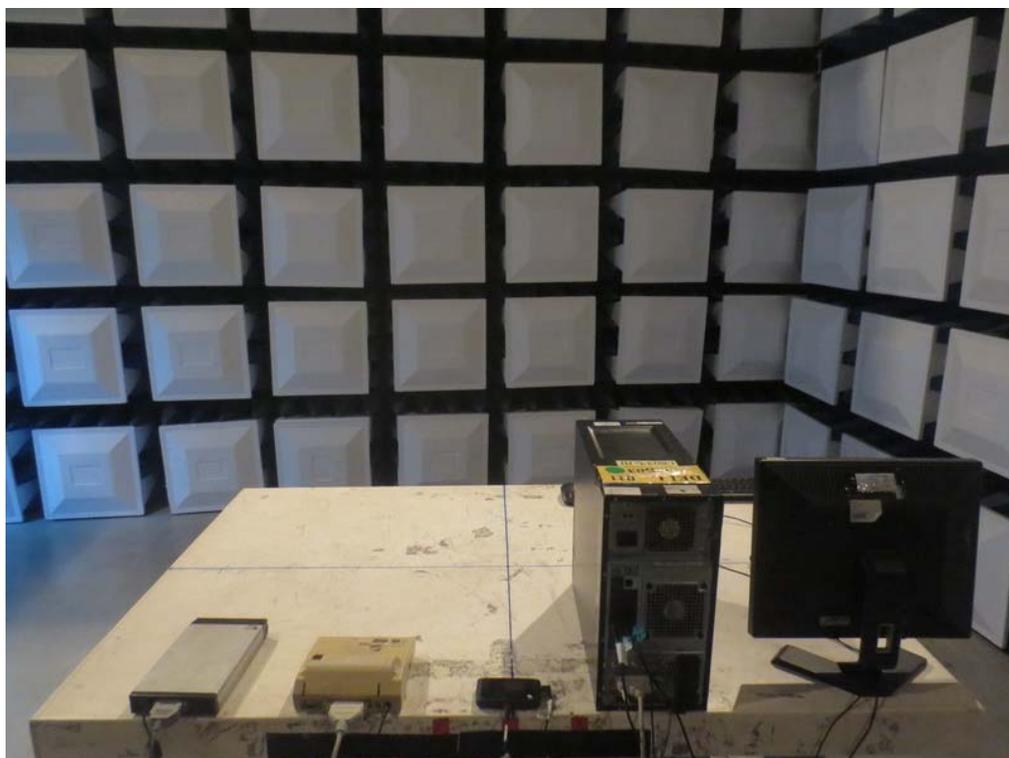
Radiated Measurement Photos - Above 1GHz
Traffic + 2.4G Wifi + Playing / Traffic + 5G Wifi + Playing



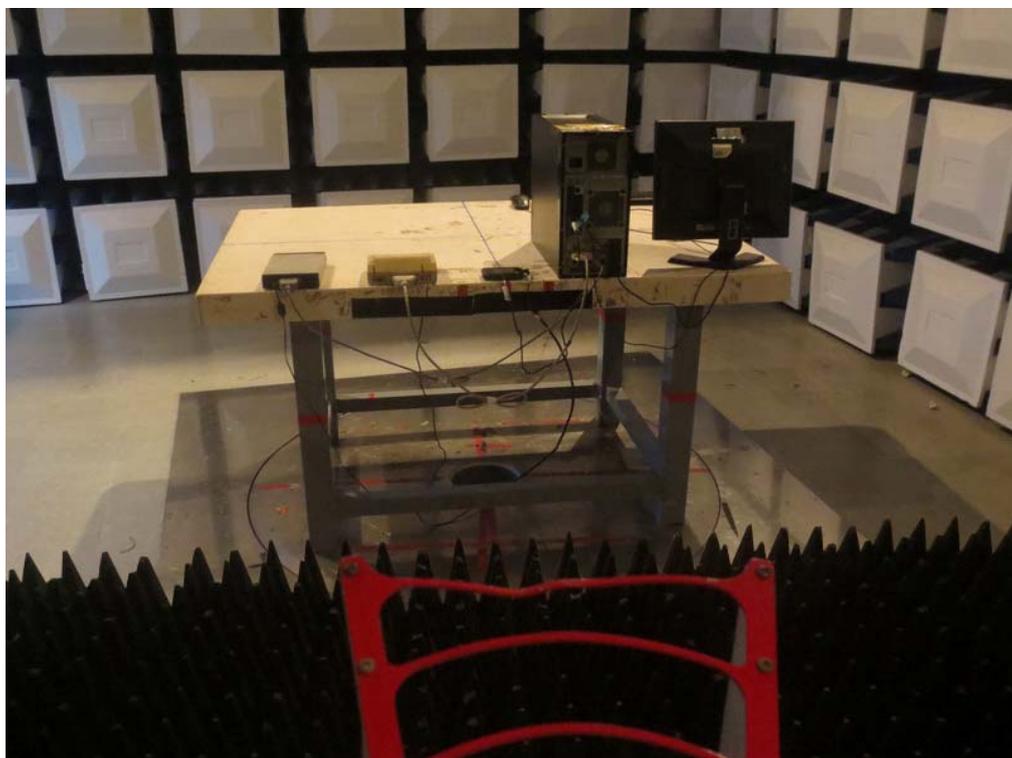
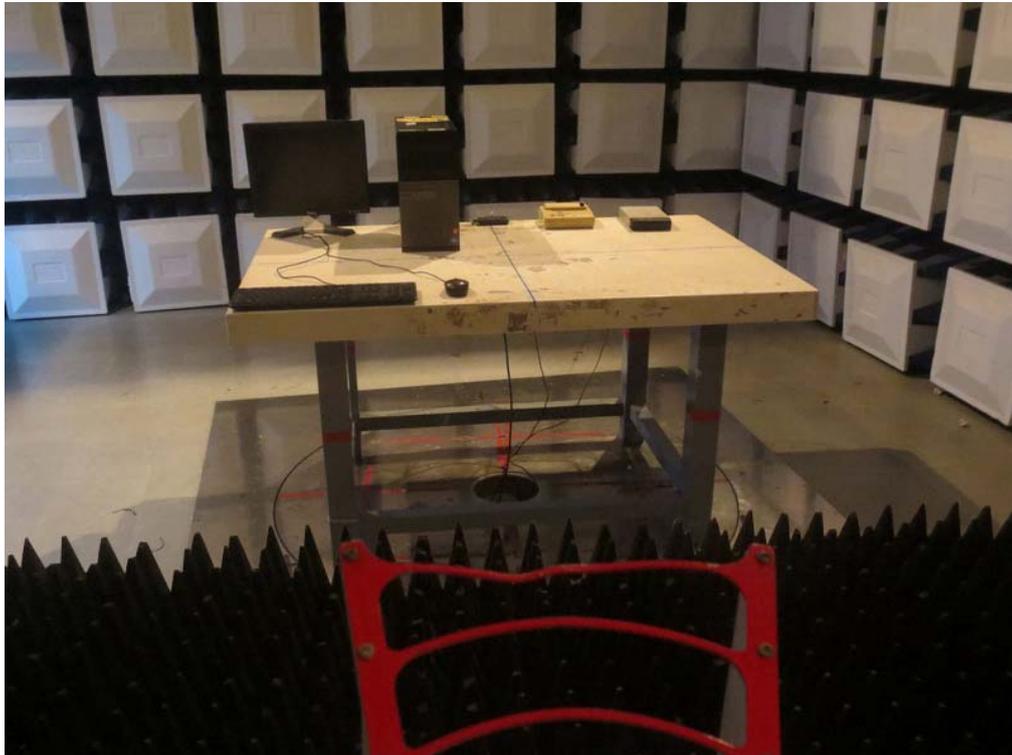
Conducted Measurement Photos
USB Copy (EUT with PC)



Radiated Measurement Photos - Below 1GHz
USB Copy (EUT with PC)



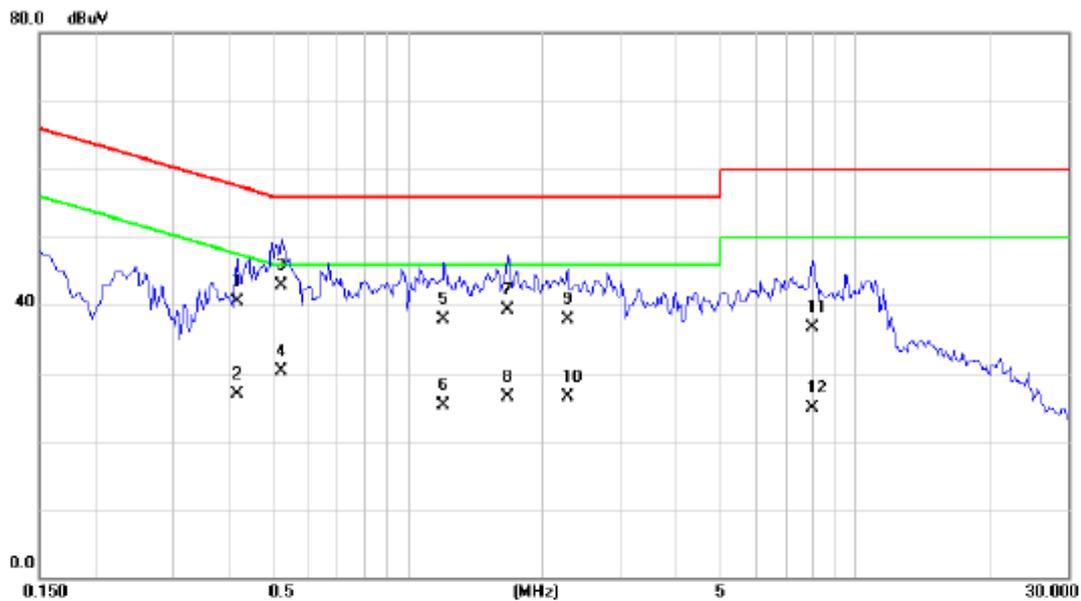
Radiated Measurement Photos - Above 1GHz
USB Copy (EUT with PC)



ATTACHMENT A - CONDUCTED EMISSION

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: ZTDAD1

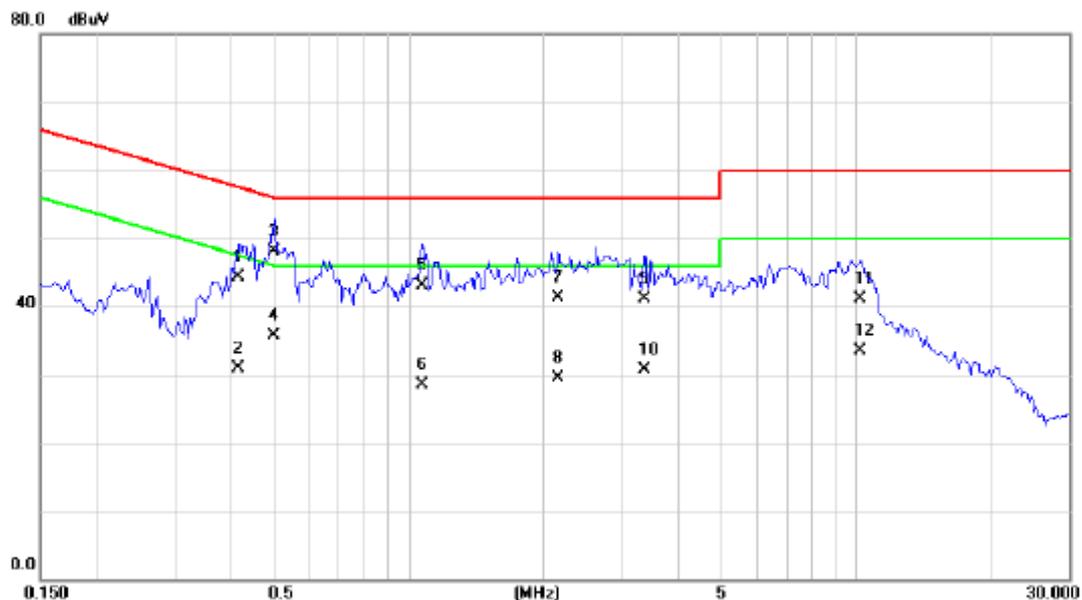
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.4156	30.90	9.68	40.58	57.54	-16.96	QP	
2		0.4156	17.30	9.68	26.98	47.54	-20.56	AVG	
3	*	0.5211	33.30	9.69	42.99	56.00	-13.01	QP	
4		0.5211	20.70	9.69	30.39	46.00	-15.61	AVG	
5		1.2047	28.10	9.81	37.91	56.00	-18.09	QP	
6		1.2047	15.50	9.81	25.31	46.00	-20.69	AVG	
7		1.6773	29.40	9.86	39.26	56.00	-16.74	QP	
8		1.6773	16.60	9.86	26.46	46.00	-19.54	AVG	
9		2.2906	28.00	9.96	37.96	56.00	-18.04	QP	
10		2.2906	16.60	9.96	26.56	46.00	-19.44	AVG	
11		8.0352	26.70	9.91	36.61	60.00	-23.39	QP	
12		8.0352	14.90	9.91	24.81	50.00	-25.19	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing_Adapter: ZTDAD1

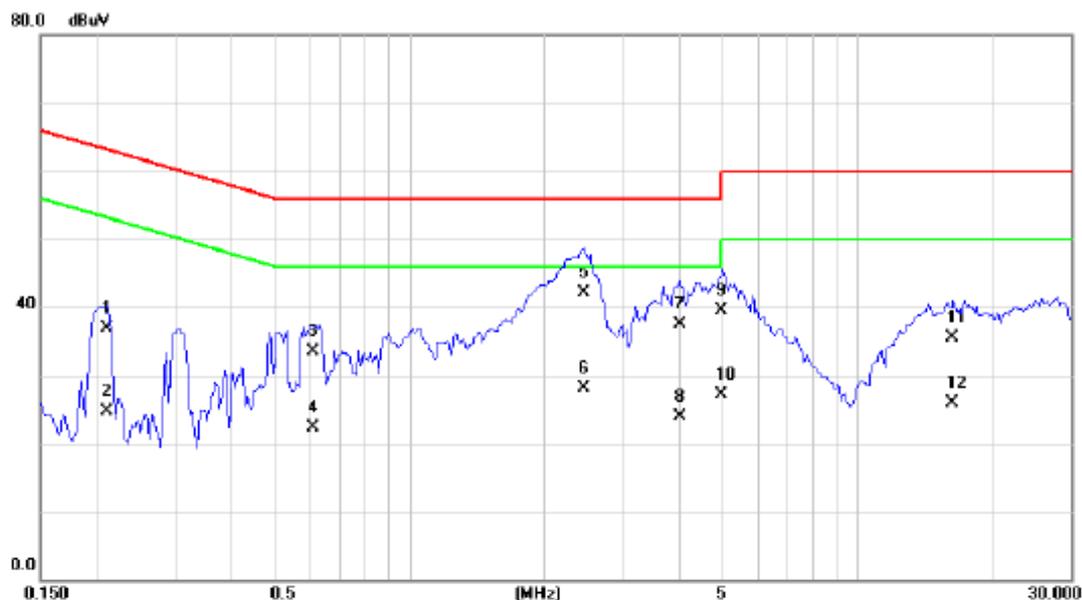
Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.4156	34.70	9.53	44.23	57.54	-13.31	QP	
2		0.4156	21.40	9.53	30.93	47.54	-16.61	AVG	
3	*	0.5016	38.60	9.56	48.16	56.00	-7.84	QP	
4		0.5016	26.10	9.56	35.66	46.00	-10.34	AVG	
5		1.0720	33.50	9.59	43.09	56.00	-12.91	QP	
6		1.0720	18.90	9.59	28.49	46.00	-17.51	AVG	
7		2.1617	31.50	9.73	41.23	56.00	-14.77	QP	
8		2.1617	19.80	9.73	29.53	46.00	-16.47	AVG	
9		3.3790	31.30	9.85	41.15	56.00	-14.85	QP	
10		3.3790	20.90	9.85	30.75	46.00	-15.25	AVG	
11		10.2344	31.30	9.85	41.15	60.00	-18.85	QP	
12		10.2344	23.70	9.85	33.55	50.00	-16.45	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: ZTDAC1

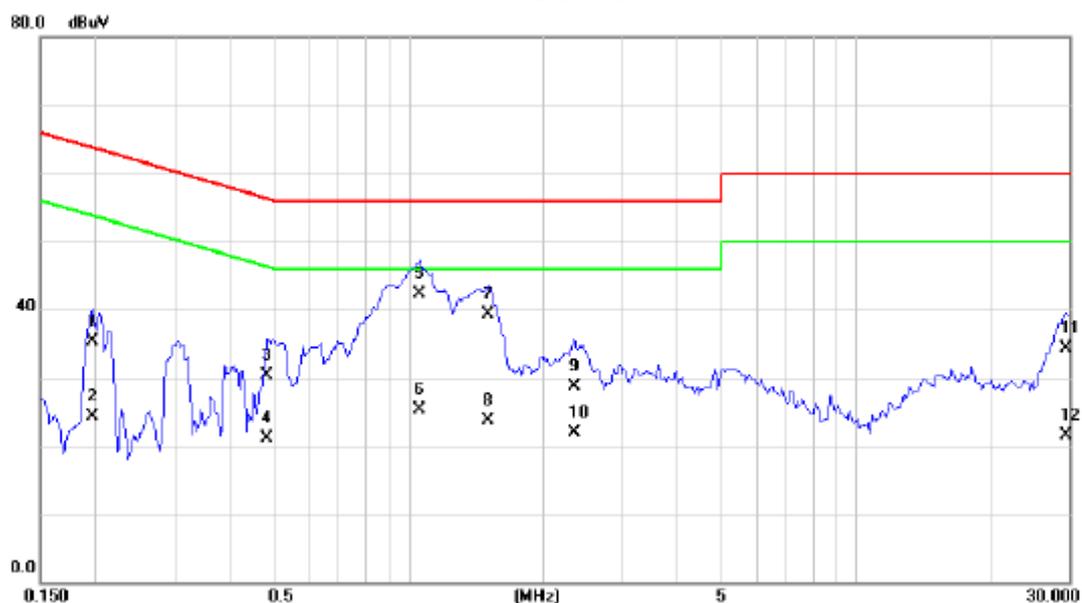
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2125	27.30	9.58	36.88	63.11	-26.23	QP	
2		0.2125	15.20	9.58	24.78	53.11	-28.33	AVG	
3		0.6110	23.80	9.72	33.52	56.00	-22.48	QP	
4		0.6110	12.50	9.72	22.22	46.00	-23.78	AVG	
5	*	2.4547	32.10	9.99	42.09	56.00	-13.91	QP	
6		2.4547	18.20	9.99	28.19	46.00	-17.81	AVG	
7		4.0156	27.50	9.97	37.47	56.00	-18.53	QP	
8		4.0156	13.90	9.97	23.87	46.00	-22.13	AVG	
9		5.0000	29.50	9.99	39.49	56.00	-16.51	QP	
10		5.0000	17.10	9.99	27.09	46.00	-18.91	AVG	
11		16.3867	25.60	9.83	35.43	60.00	-24.57	QP	
12		16.3867	16.10	9.83	25.93	50.00	-24.07	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: ZTDAC1

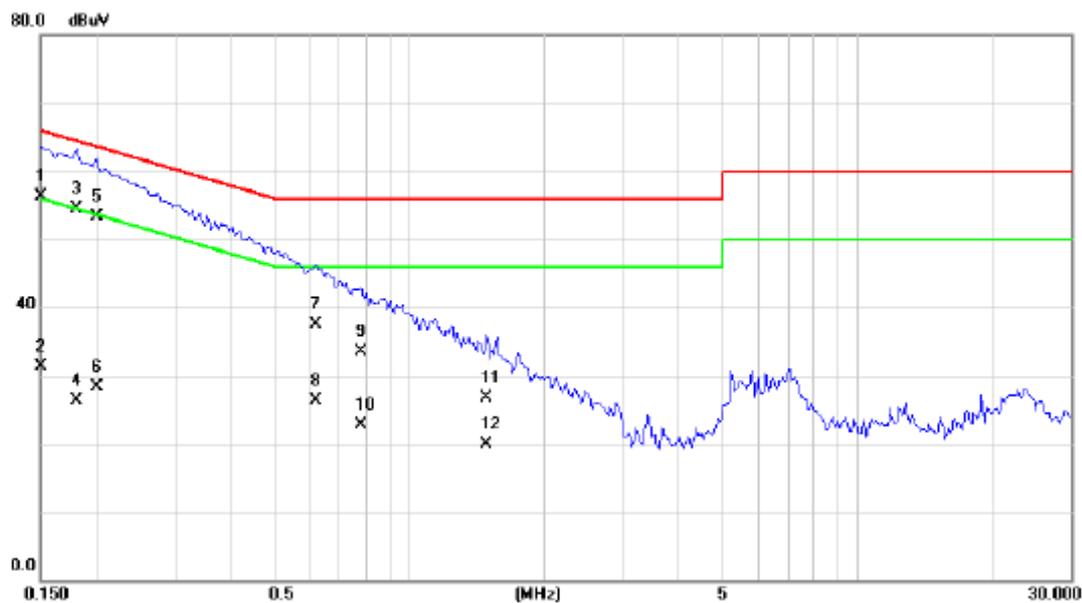
Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1970	25.90	9.50	35.40	63.74	-28.34	QP	
2		0.1970	14.90	9.50	24.40	53.74	-29.34	AVG	
3		0.4820	20.80	9.55	30.35	56.30	-25.95	QP	
4		0.4820	11.60	9.55	21.15	46.30	-25.15	AVG	
5	*	1.0641	32.80	9.59	42.39	56.00	-13.61	QP	
6		1.0641	15.70	9.59	25.29	46.00	-20.71	AVG	
7		1.5094	29.70	9.66	39.36	56.00	-16.64	QP	
8		1.5094	14.10	9.66	23.76	46.00	-22.24	AVG	
9		2.3492	19.00	9.75	28.75	56.00	-27.25	QP	
10		2.3492	12.10	9.75	21.85	46.00	-24.15	AVG	
11		29.5781	24.20	10.06	34.26	60.00	-25.74	QP	
12		29.5781	11.50	10.06	21.56	50.00	-28.44	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC12-HDQC/WH

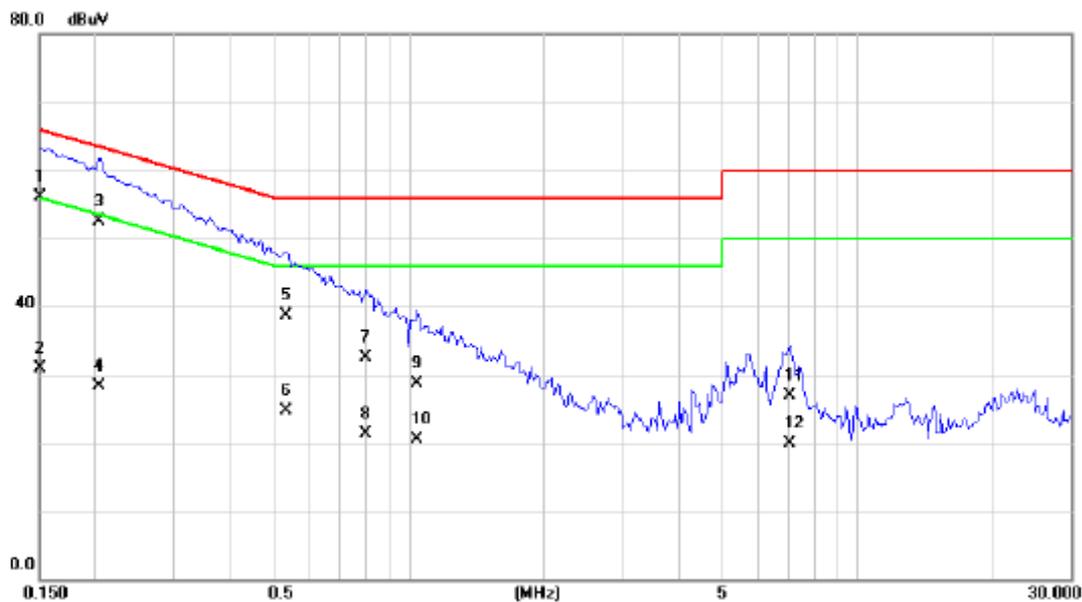
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	46.80	9.54	56.34	66.00	-9.66	QP	
2		0.1500	21.70	9.54	31.24	56.00	-24.76	AVG	
3		0.1812	45.00	9.56	54.56	64.43	-9.87	QP	
4		0.1812	16.80	9.56	26.36	54.43	-28.07	AVG	
5		0.2008	43.70	9.57	53.27	63.58	-10.31	QP	
6		0.2008	18.80	9.57	28.37	53.58	-25.21	AVG	
7		0.6188	27.80	9.73	37.53	56.00	-18.47	QP	
8		0.6188	16.50	9.73	26.23	46.00	-19.77	AVG	
9		0.7828	23.80	9.75	33.55	56.00	-22.45	QP	
10		0.7828	12.90	9.75	22.65	46.00	-23.35	AVG	
11		1.4937	16.80	9.84	26.64	56.00	-29.36	QP	
12		1.4937	10.10	9.84	19.94	46.00	-26.06	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC12-HDQC/WH

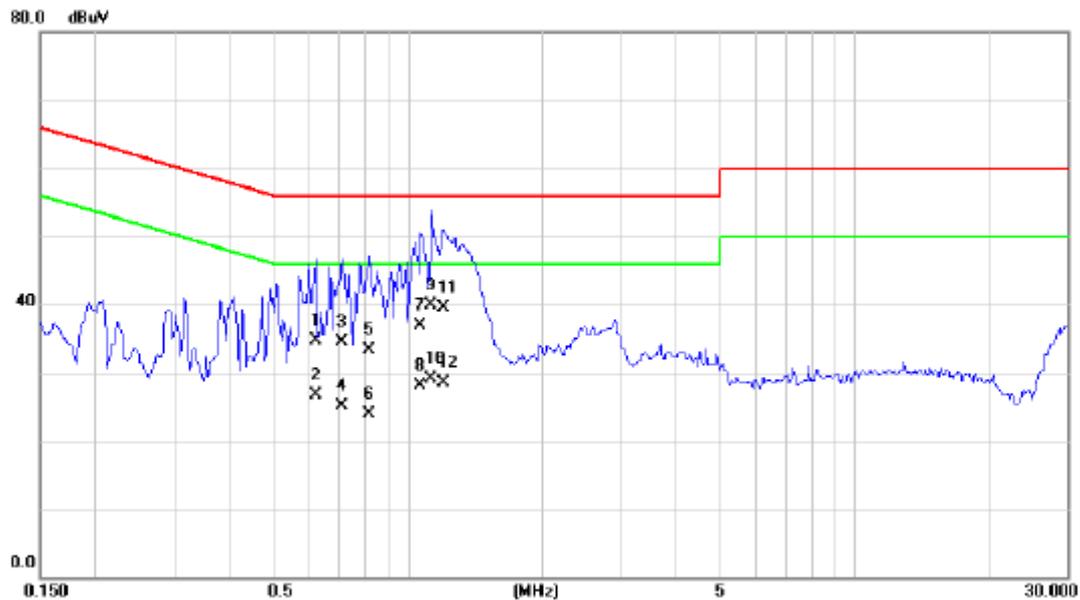
Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	46.70	9.49	56.19	66.00	-9.81	QP	
2		0.1500	21.50	9.49	30.99	56.00	-25.01	AVG	
3		0.2047	43.10	9.50	52.60	63.42	-10.82	QP	
4		0.2047	18.80	9.50	28.30	53.42	-25.12	AVG	
5		0.5328	29.20	9.56	38.76	56.00	-17.24	QP	
6		0.5328	15.20	9.56	24.76	46.00	-21.24	AVG	
7		0.8063	22.90	9.56	32.46	56.00	-23.54	QP	
8		0.8063	11.80	9.56	21.36	46.00	-24.64	AVG	
9		1.0484	19.20	9.59	28.79	56.00	-27.21	QP	
10		1.0484	10.90	9.59	20.49	46.00	-25.51	AVG	
11		7.0938	17.10	9.84	26.94	60.00	-33.06	QP	
12		7.0938	10.00	9.84	19.84	50.00	-30.16	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

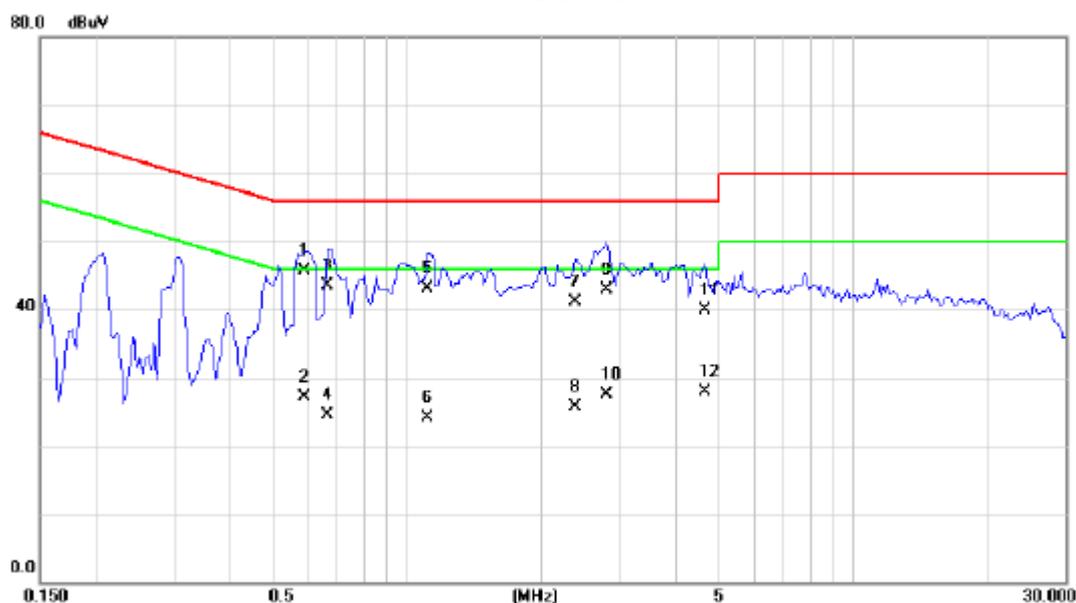
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.6227	25.00	9.73	34.73	56.00	-21.27	QP	
2		0.6227	16.90	9.73	26.63	46.00	-19.37	AVG	
3		0.7125	24.80	9.74	34.54	56.00	-21.46	QP	
4		0.7125	15.30	9.74	25.04	46.00	-20.96	AVG	
5		0.8220	23.50	9.75	33.25	56.00	-22.75	QP	
6		0.8220	14.10	9.75	23.85	46.00	-22.15	AVG	
7		1.0680	27.20	9.80	37.00	56.00	-19.00	QP	
8		1.0680	18.30	9.80	28.10	46.00	-17.90	AVG	
9	*	1.1305	30.10	9.81	39.91	56.00	-16.09	QP	
10		1.1305	19.20	9.81	29.01	46.00	-16.99	AVG	
11		1.2125	29.70	9.81	39.51	56.00	-16.49	QP	
12		1.2125	18.60	9.81	28.41	46.00	-17.59	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

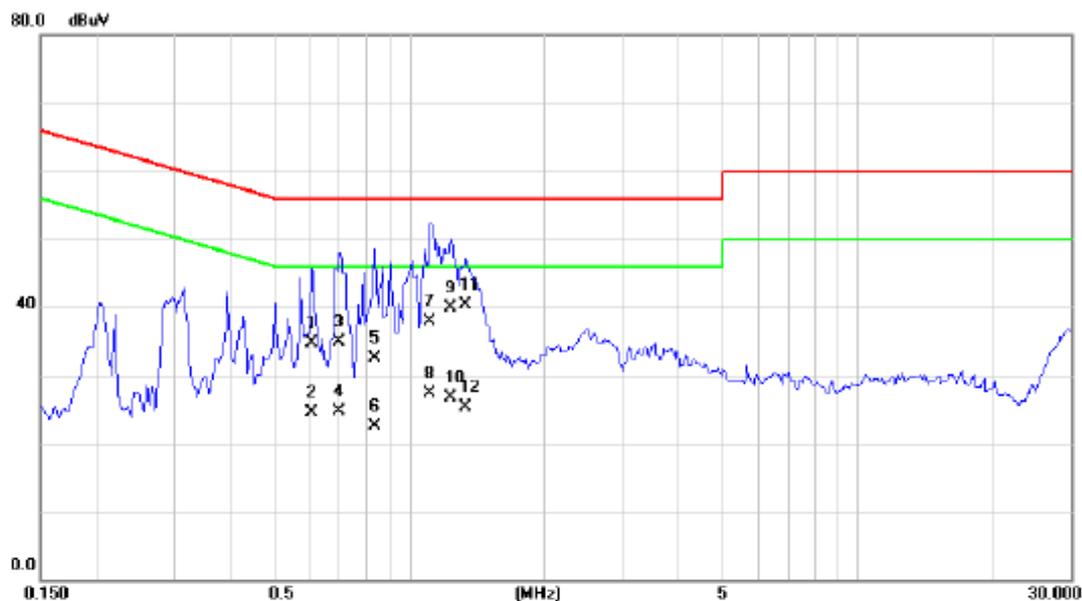
Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.5914	36.10	9.56	45.66	56.00	-10.34	QP	
2		0.5914	17.60	9.56	27.16	46.00	-18.84	AVG	
3		0.6617	34.00	9.54	43.54	56.00	-12.46	QP	
4		0.6617	14.90	9.54	24.44	46.00	-21.56	AVG	
5		1.1148	33.60	9.60	43.20	56.00	-12.80	QP	
6		1.1148	14.60	9.60	24.20	46.00	-21.80	AVG	
7		2.3961	31.40	9.76	41.16	56.00	-14.84	QP	
8		2.3961	15.90	9.76	25.66	46.00	-20.34	AVG	
9		2.8141	33.10	9.80	42.90	56.00	-13.10	QP	
10		2.8141	17.80	9.80	27.60	46.00	-18.40	AVG	
11		4.6720	30.00	9.92	39.92	56.00	-16.08	QP	
12		4.6720	18.00	9.92	27.92	46.00	-18.08	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

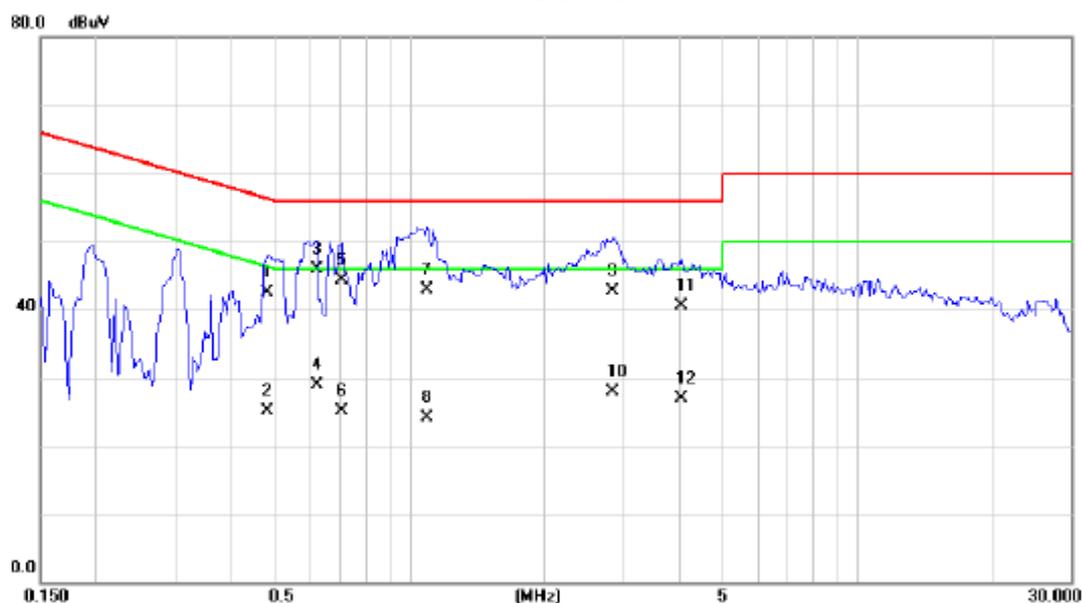
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.6070	25.00	9.72	34.72	56.00	-21.28	QP	
2		0.6070	14.80	9.72	24.52	46.00	-21.48	AVG	
3		0.7007	25.10	9.74	34.84	56.00	-21.16	QP	
4		0.7007	15.00	9.74	24.74	46.00	-21.26	AVG	
5		0.8375	22.70	9.76	32.46	56.00	-23.54	QP	
6		0.8375	12.80	9.76	22.56	46.00	-23.44	AVG	
7		1.1148	28.00	9.81	37.81	56.00	-18.19	QP	
8		1.1148	17.40	9.81	27.21	46.00	-18.79	AVG	
9		1.2398	30.10	9.81	39.91	56.00	-16.09	QP	
10		1.2398	16.90	9.81	26.71	46.00	-19.29	AVG	
11	*	1.3414	30.50	9.83	40.33	56.00	-15.67	QP	
12		1.3414	15.40	9.83	25.23	46.00	-20.77	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

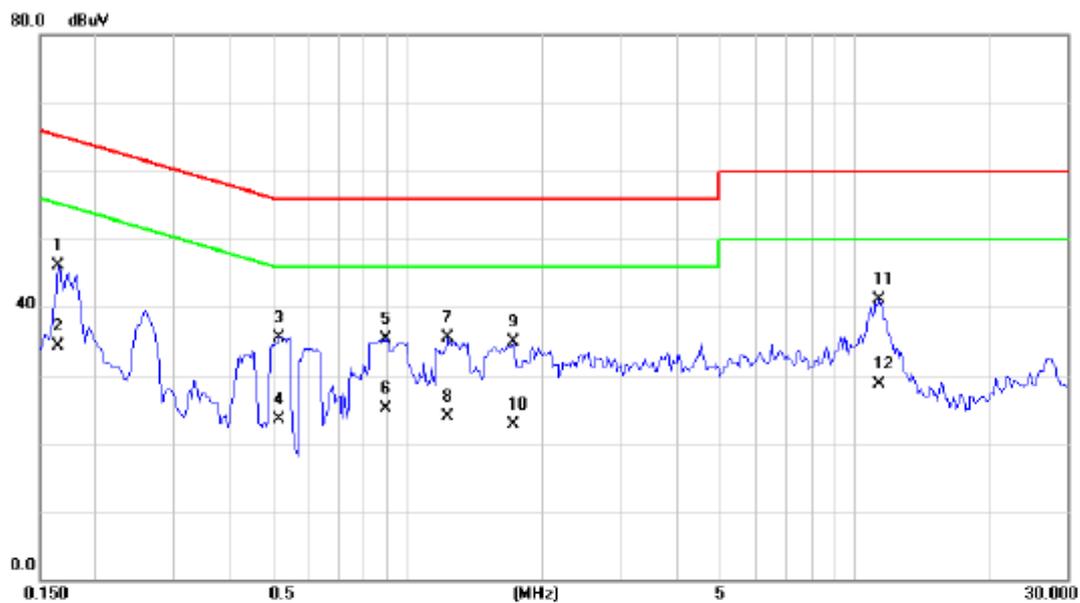
Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.4837	32.90	9.56	42.46	56.28	-13.82	QP	
2		0.4837	15.50	9.56	25.06	46.28	-21.22	AVG	
3	*	0.6188	36.40	9.56	45.96	56.00	-10.04	QP	
4		0.6188	19.30	9.56	28.86	46.00	-17.14	AVG	
5		0.7047	34.80	9.53	44.33	56.00	-11.67	QP	
6		0.7047	15.50	9.53	25.03	46.00	-20.97	AVG	
7		1.0992	33.30	9.60	42.90	56.00	-13.10	QP	
8		1.0992	14.50	9.60	24.10	46.00	-21.90	AVG	
9		2.8453	33.00	9.80	42.80	56.00	-13.20	QP	
10		2.8453	18.10	9.80	27.90	46.00	-18.10	AVG	
11		4.0508	30.60	9.92	40.52	56.00	-15.48	QP	
12		4.0508	16.90	9.92	26.82	46.00	-19.18	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	USB Copy (EUT with PC)

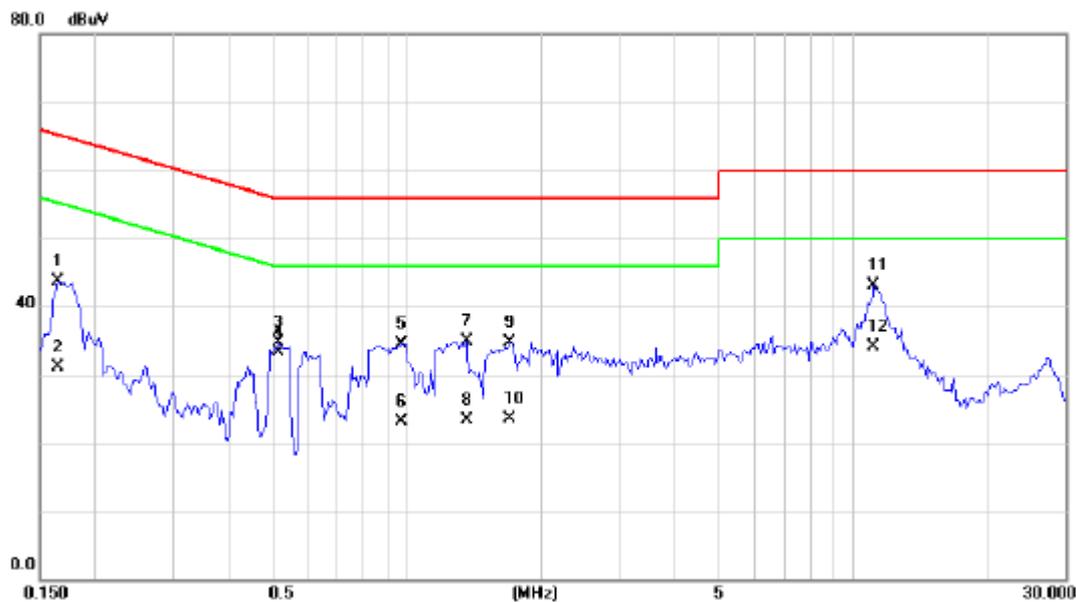
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1655	36.39	9.69	46.08	65.18	-19.10	QP	
2		0.1655	24.60	9.69	34.29	55.18	-20.89	AVG	
3		0.5172	25.71	9.82	35.53	56.00	-20.47	QP	
4		0.5172	13.70	9.82	23.52	46.00	-22.48	AVG	
5		0.8961	25.39	9.95	35.34	56.00	-20.66	QP	
6		0.8961	15.20	9.95	25.15	46.00	-20.85	AVG	
7		1.2320	25.50	10.01	35.51	56.00	-20.49	QP	
8		1.2320	13.90	10.01	23.91	46.00	-22.09	AVG	
9		1.7242	24.99	9.89	34.88	56.00	-21.12	QP	
10		1.7242	12.80	9.89	22.69	46.00	-23.31	AVG	
11	*	11.4141	30.92	10.12	41.04	60.00	-18.96	QP	
12		11.4141	18.60	10.12	28.72	50.00	-21.28	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	USB Copy (EUT with PC)

Neutral

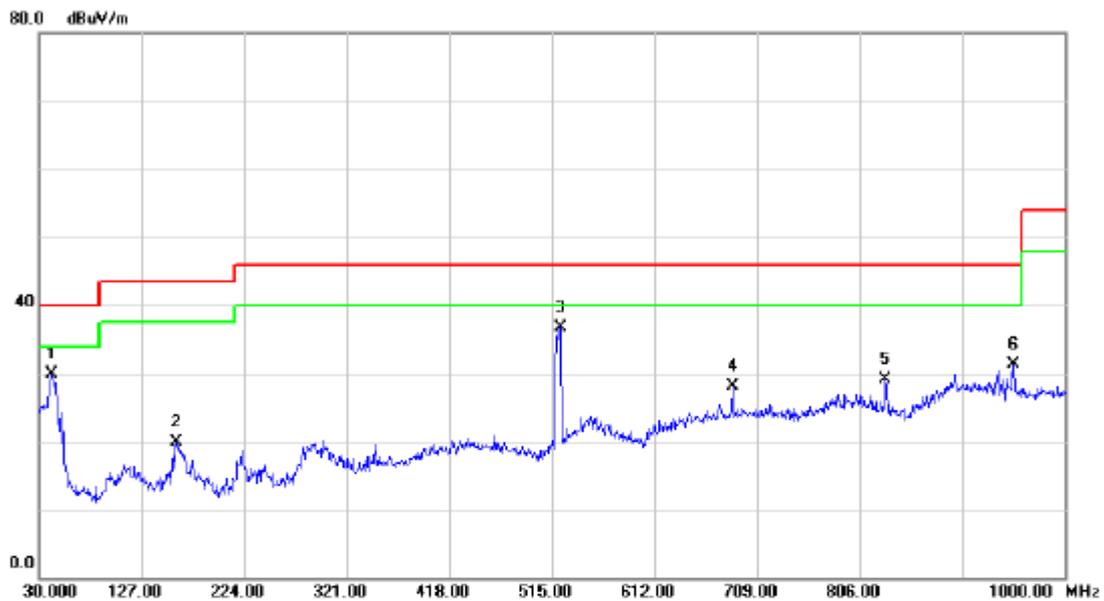


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1655	34.02	9.60	43.62	65.18	-21.56	QP	
2		0.1655	21.60	9.60	31.20	55.18	-23.98	AVG	
3		0.5171	25.02	9.65	34.67	56.00	-21.33	QP	
4	*	0.5171	23.70	9.65	33.35	46.00	-12.65	AVG	
5		0.9742	24.78	9.77	34.55	56.00	-21.45	QP	
6		0.9742	13.40	9.77	23.17	46.00	-22.83	AVG	
7		1.3610	25.09	9.82	34.91	56.00	-21.09	QP	
8		1.3610	13.50	9.82	23.32	46.00	-22.68	AVG	
9		1.7046	24.87	9.86	34.73	56.00	-21.27	QP	
10		1.7046	13.60	9.86	23.46	46.00	-22.54	AVG	
11		11.1406	33.02	10.09	43.11	60.00	-16.89	QP	
12		11.1406	24.10	10.09	34.19	50.00	-15.81	AVG	

ATTACHMENT B - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: ZTDAD1

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		41.6400	43.95	-14.03	29.92	40.00	-10.08			QP
2		159.9800	33.92	-13.92	20.00	43.50	-23.50			QP
3	*	523.7300	45.47	-8.68	36.79	46.00	-9.21			QP
4		685.7200	33.95	-5.84	28.11	46.00	-17.89			QP
5		830.2500	33.28	-4.20	29.08	46.00	-16.92			QP
6		951.5000	33.13	-1.74	31.39	46.00	-14.61			QP

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: ZTDAD1

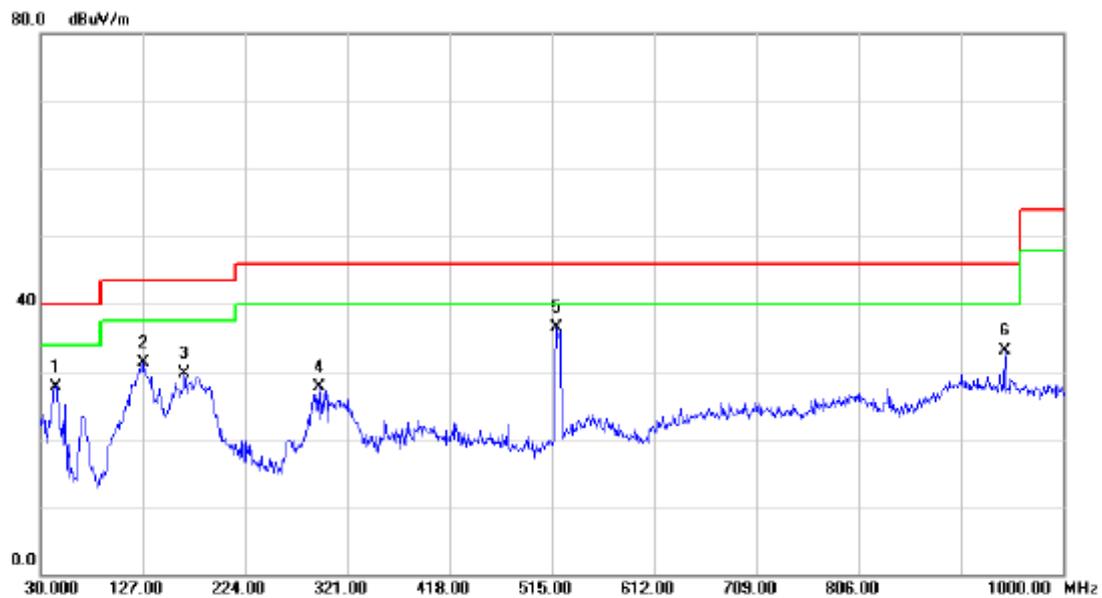
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		301.6000	34.86	-13.44	21.42	46.00	-24.58	QP	
2		350.1000	34.79	-12.25	22.54	46.00	-23.46	QP	
3	*	521.7900	41.52	-8.74	32.78	46.00	-13.22	QP	
4		784.6600	31.80	-4.82	26.98	46.00	-19.02	QP	
5		891.3600	33.87	-3.00	30.87	46.00	-15.13	QP	
6		951.5000	33.59	-1.74	31.85	46.00	-14.15	QP	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: ZTDAC1

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		44.5500	41.52	-13.73	27.79	40.00	-12.21	QP			
2		127.9700	46.85	-15.48	31.37	43.50	-12.13	QP			
3		166.7700	44.06	-14.26	29.80	43.50	-13.70	QP			
4		294.8100	41.36	-13.60	27.76	46.00	-18.24	QP			
5	*	518.8800	45.25	-8.81	36.44	46.00	-9.56	QP			
6		944.7100	35.01	-1.87	33.14	46.00	-12.86	QP			

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: ZTDAC1

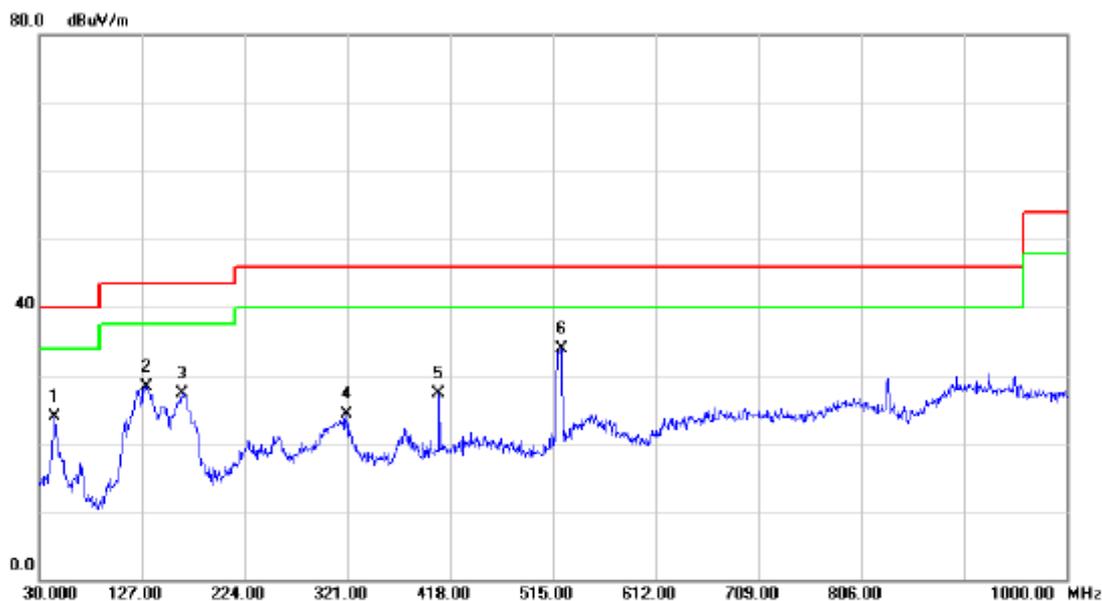
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	124.0900	35.25	-15.84	19.41	43.50	-24.09	QP			
2	189.0800	43.40	-16.56	26.84	43.50	-16.66	QP			
3	325.8500	40.93	-12.80	28.13	46.00	-17.87	QP			
4	386.9600	36.36	-11.43	24.93	46.00	-21.07	QP			
5 *	522.7600	41.04	-8.70	32.34	46.00	-13.66	QP			
6	795.3300	31.92	-4.77	27.15	46.00	-18.85	QP			

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: SB-AC12-HDQC/WH

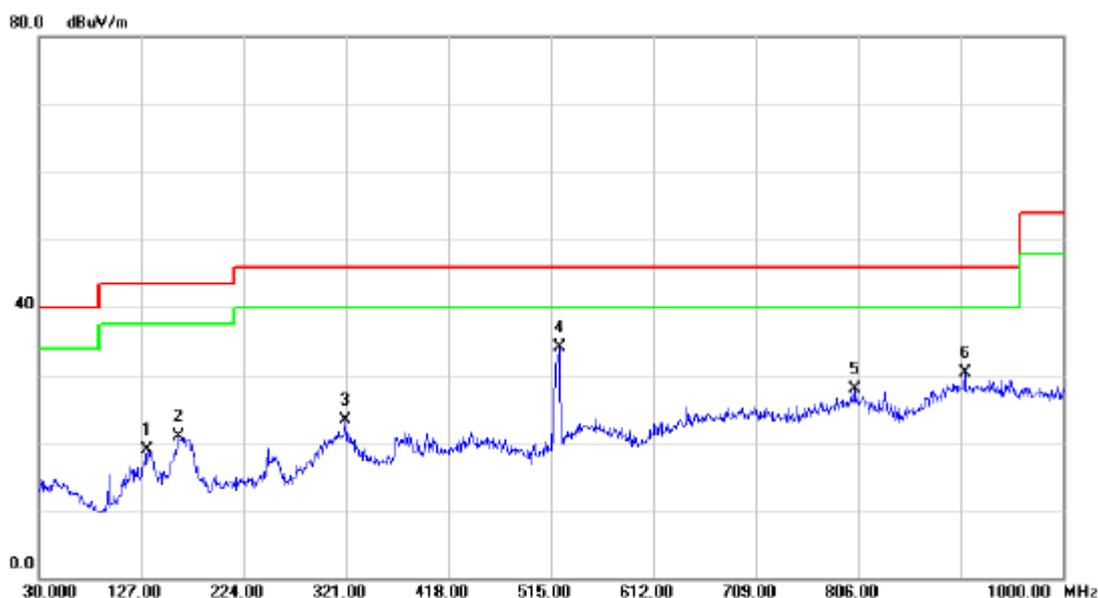
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		44.5500	37.55	-13.73	23.82	40.00	-16.18	QP			
2		130.8800	43.58	-15.23	28.35	43.50	-15.15	QP			
3		164.8300	41.50	-14.16	27.34	43.50	-16.16	QP			
4		320.0300	37.23	-12.95	24.28	46.00	-21.72	QP			
5		407.3300	38.18	-10.88	27.30	46.00	-18.70	QP			
6	*	522.7600	42.57	-8.70	33.87	46.00	-12.13	QP			

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: SB-AC12-HDQC/WH

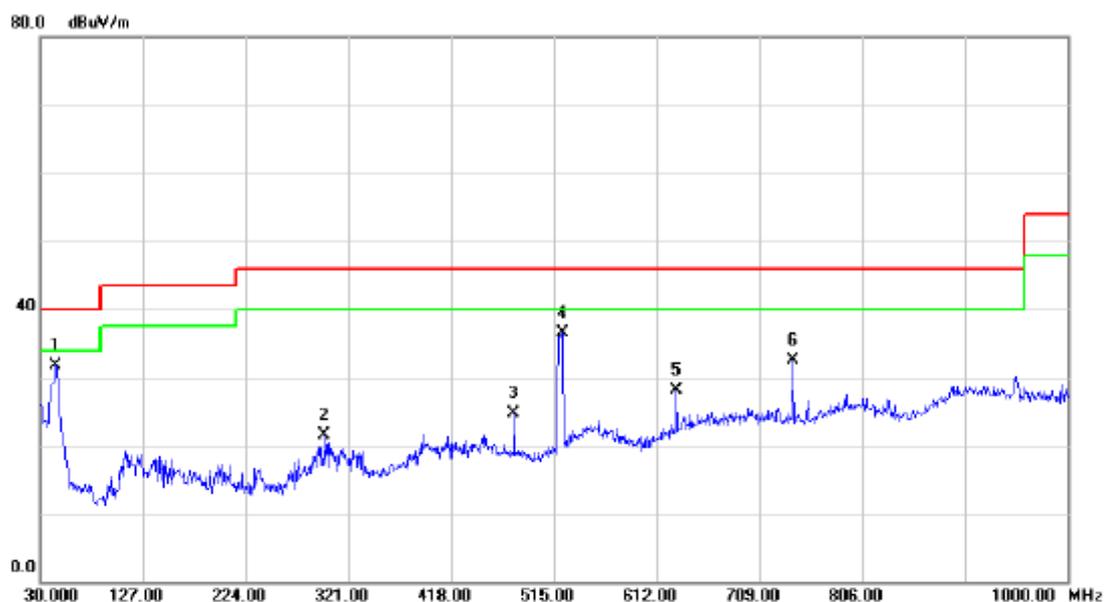
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		132.8200	33.97	-15.05	18.92	43.50	-24.58	QP			
2		162.8900	35.04	-14.06	20.98	43.50	-22.52	QP			
3		320.0300	36.22	-12.95	23.27	46.00	-22.73	QP			
4	*	522.7600	42.71	-8.70	34.01	46.00	-11.99	QP			
5		802.1200	32.53	-4.71	27.82	46.00	-18.18	QP			
6		906.8800	33.03	-2.67	30.36	46.00	-15.64	QP			

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	44.5500	45.44	-13.73	31.71	40.00	-8.29	QP			
2		298.6900	34.96	-13.52	21.44	46.00	-24.56	QP			
3		477.1700	34.23	-9.46	24.77	46.00	-21.23	QP			
4		522.7600	45.27	-8.70	36.57	46.00	-9.43	QP			
5		630.4300	35.18	-7.12	28.06	46.00	-17.94	QP			
6		740.0400	37.57	-5.09	32.48	46.00	-13.52	QP			

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

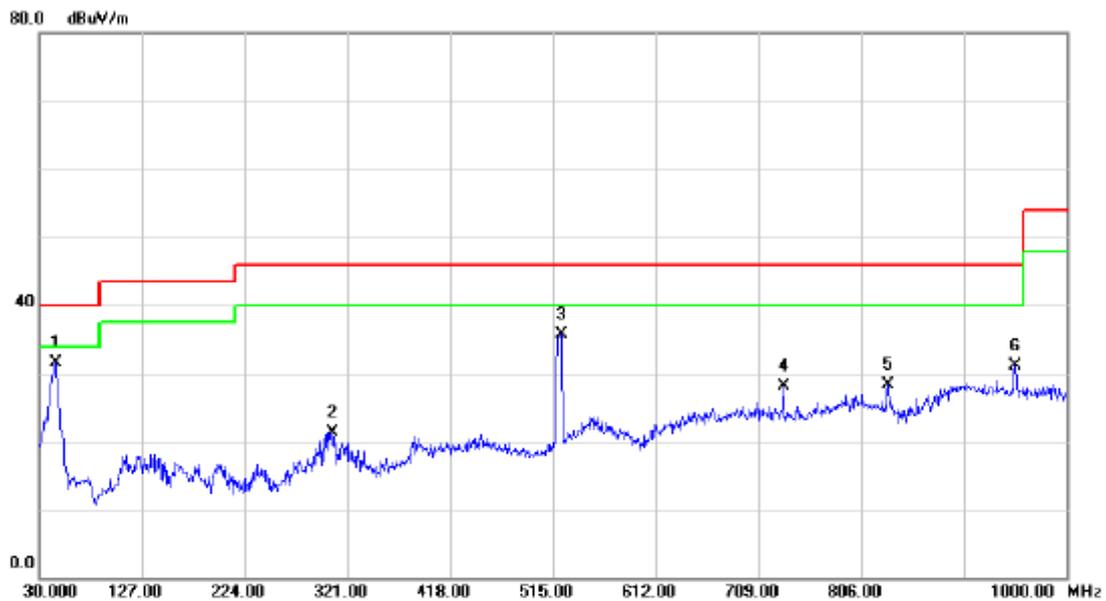
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		42.6100	31.36	-13.92	17.44	40.00	-22.56			QP
2		188.1100	33.36	-16.44	16.92	43.50	-26.58			QP
3		295.7800	34.27	-13.57	20.70	46.00	-25.30			QP
4		387.9300	37.41	-11.41	26.00	46.00	-20.00			QP
5	*	521.7900	41.87	-8.74	33.13	46.00	-12.87			QP
6		951.5000	32.90	-1.74	31.16	46.00	-14.84			QP

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	45.5200	45.12	-13.68	31.44	40.00	-8.56	QP			
2		307.4200	34.63	-13.30	21.33	46.00	-24.67	QP			
3		522.7600	44.33	-8.70	35.63	46.00	-10.37	QP			
4		732.2800	33.26	-5.16	28.10	46.00	-17.90	QP			
5		831.2200	32.40	-4.18	28.22	46.00	-17.78	QP			
6		951.5000	32.89	-1.74	31.15	46.00	-14.85	QP			

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

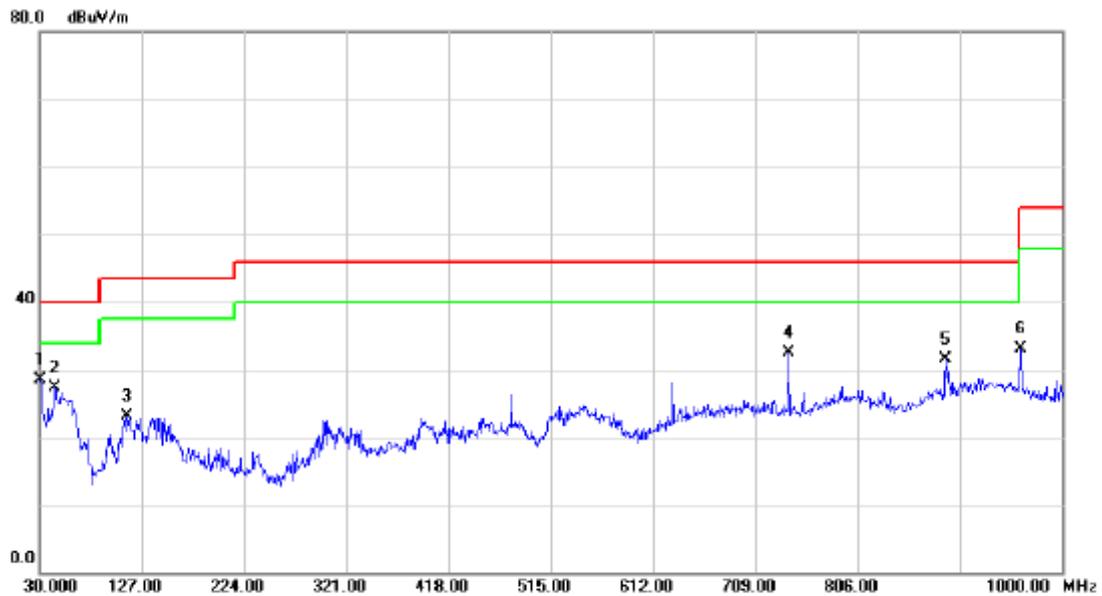
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		32.9100	32.32	-15.12	17.20	40.00	-22.80	QP			
2		159.9800	30.63	-13.92	16.71	43.50	-26.79	QP			
3		301.6000	33.23	-13.44	19.79	46.00	-26.21	QP			
4		389.8700	36.78	-11.35	25.43	46.00	-20.57	QP			
5	*	521.7900	42.06	-8.74	33.32	46.00	-12.68	QP			
6		951.5000	31.52	-1.74	29.78	46.00	-16.22	QP			

Test Voltage:	AC 120V/60Hz
Test Mode:	USB Copy (EUT with PC)

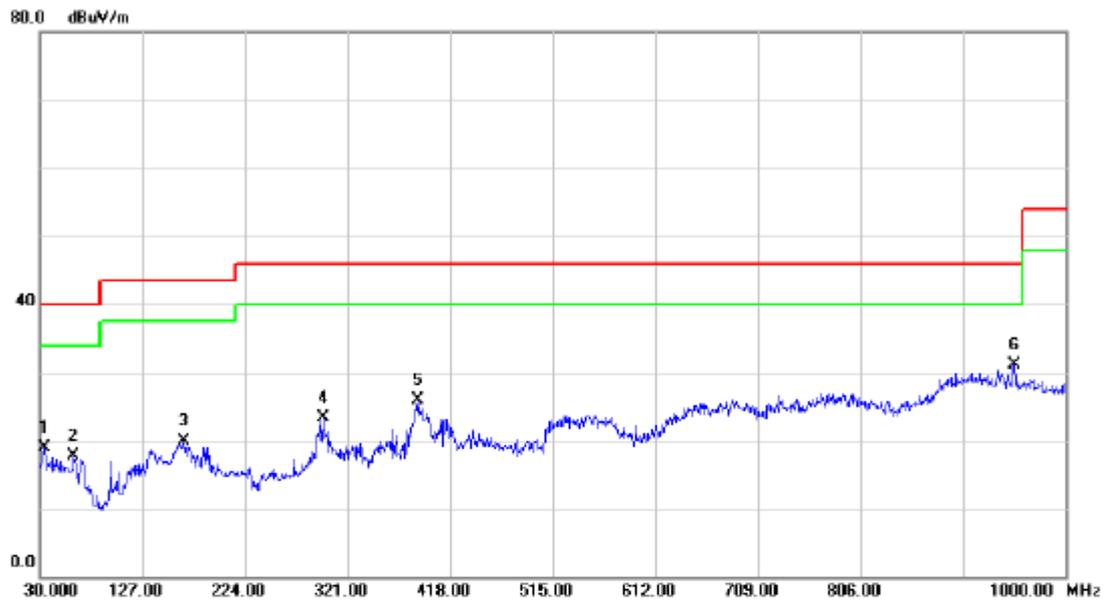
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	30.9700	43.20	-14.61	28.59	40.00	-11.41	QP	
2		44.5500	40.63	-13.42	27.21	40.00	-12.79	QP	
3		113.4200	37.98	-14.91	23.07	43.50	-20.43	QP	
4		740.0400	37.00	-4.52	32.48	46.00	-13.52	QP	
5		889.4200	32.09	-0.49	31.60	46.00	-14.40	QP	
6		960.2300	33.37	-0.22	33.15	54.00	-20.85	QP	

Test Voltage:	AC 120V/60Hz
Test Mode:	USB Copy (EUT with PC)

Horizontal

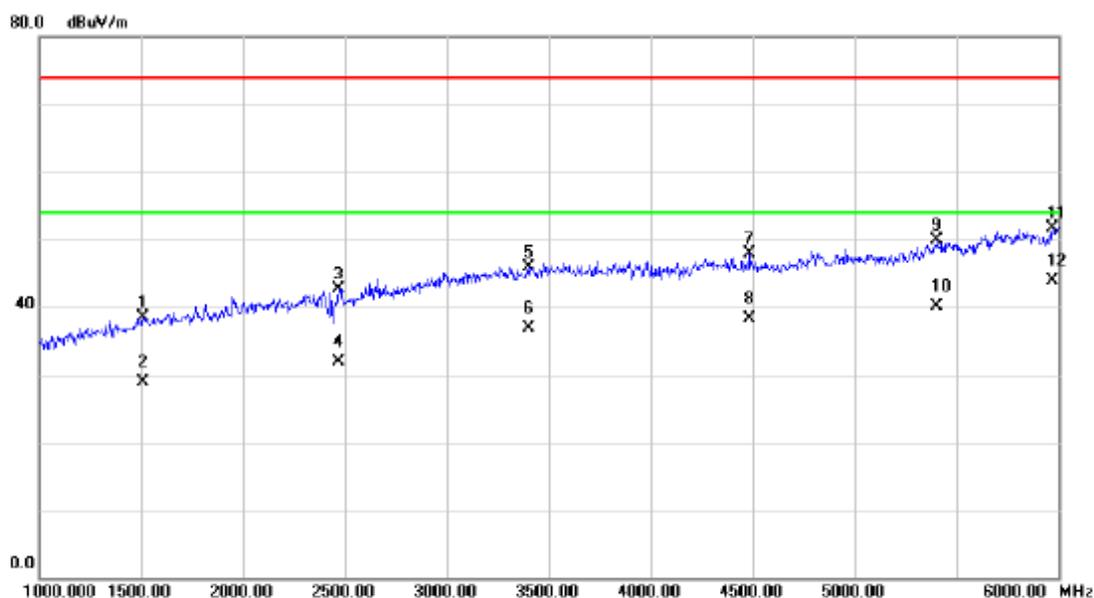


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		33.8800	33.04	-14.14	18.90	40.00	-21.10	QP	
2		62.0100	32.34	-14.73	17.61	40.00	-22.39	QP	
3		165.8000	32.52	-12.68	19.84	43.50	-23.66	QP	
4		297.7200	34.00	-10.62	23.38	46.00	-22.62	QP	
5		387.9300	35.80	-9.80	26.00	46.00	-20.00	QP	
6	*	951.5000	31.36	-0.20	31.16	46.00	-14.84	QP	

ATTACHMENT C - RADIATED EMISSION (ABOVE 1000MHZ)

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: ZTDAD1

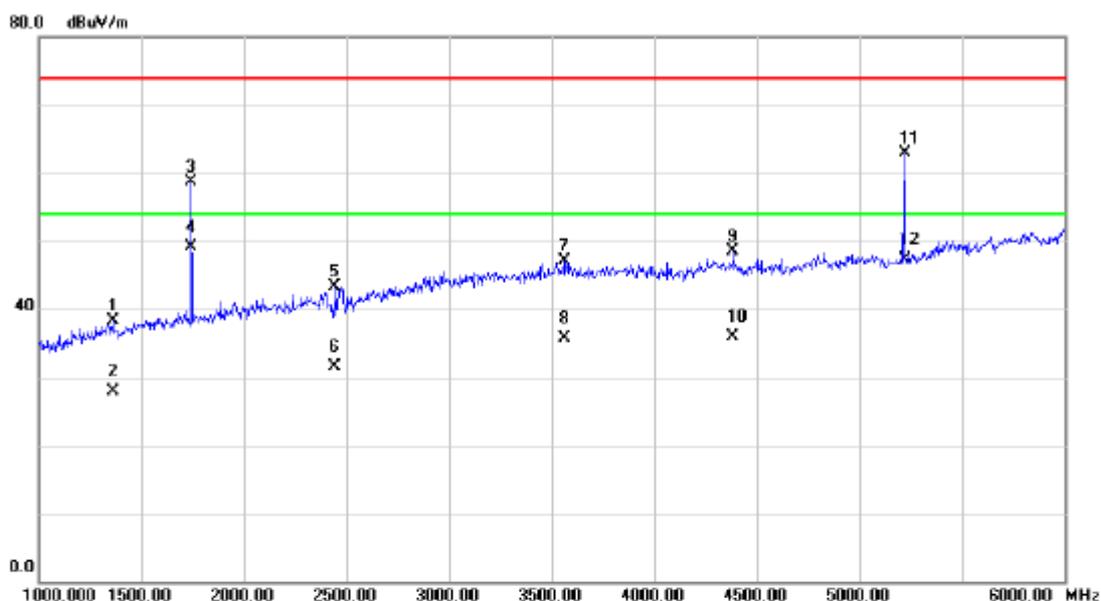
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	1510.000	42.44	-4.02	38.42	74.00	-35.58	peak	
2	1510.000	32.97	-4.02	28.95	54.00	-25.05	AVG	
3	2470.000	42.79	-0.03	42.76	74.00	-31.24	peak	
4	2470.000	31.84	-0.03	31.81	54.00	-22.19	AVG	
5	3400.000	43.17	2.77	45.94	74.00	-28.06	peak	
6	3400.000	34.10	2.77	36.87	54.00	-17.13	AVG	
7	4485.000	41.06	6.91	47.97	74.00	-26.03	peak	
8	4485.000	31.35	6.91	38.26	54.00	-15.74	AVG	
9	5405.000	40.95	8.86	49.81	74.00	-24.19	peak	
10	5405.000	31.34	8.86	40.20	54.00	-13.80	AVG	
11	5970.000	41.96	9.72	51.68	74.00	-22.32	peak	
12 *	5970.000	34.20	9.72	43.92	54.00	-10.08	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: ZTDAD1

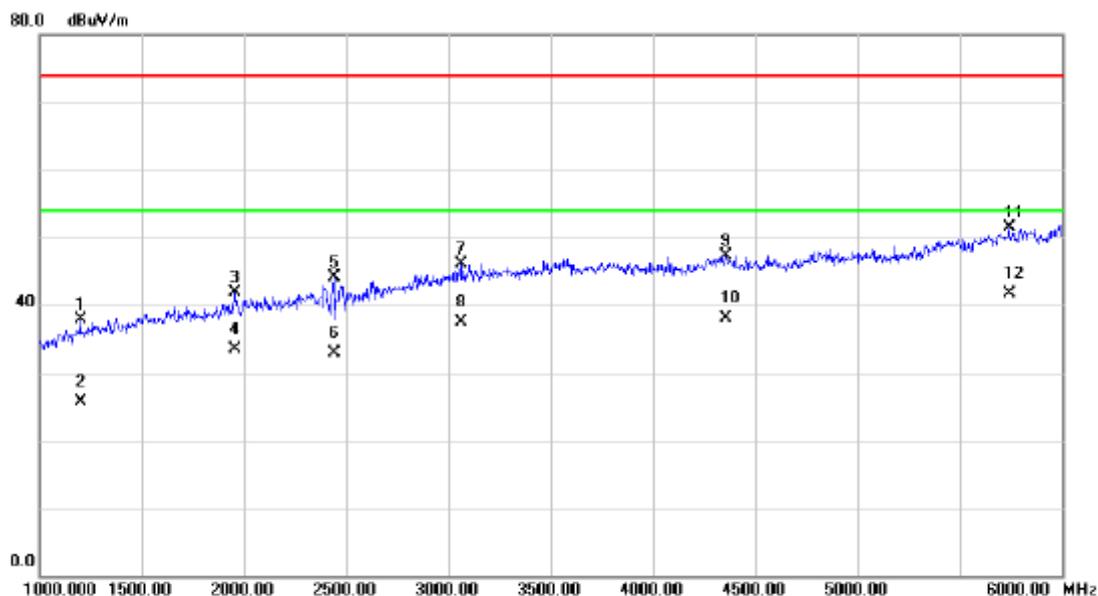
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		1360.000	42.77	-4.48	38.29	74.00	-35.71	peak	
2		1360.000	32.35	-4.48	27.87	54.00	-26.13	AVG	
3		1745.000	61.62	-2.99	58.63	74.00	-15.37	peak	
4	*	1745.000	52.01	-2.99	49.02	54.00	-4.98	AVG	
5		2445.000	43.44	-0.14	43.30	74.00	-30.70	peak	
6		2445.000	31.70	-0.14	31.56	54.00	-22.44	AVG	
7		3560.000	43.73	3.43	47.16	74.00	-26.84	peak	
8		3560.000	32.31	3.43	35.74	54.00	-18.26	AVG	
9		4385.000	41.66	6.85	48.51	74.00	-25.49	peak	
10		4385.000	28.96	6.85	35.81	54.00	-18.19	AVG	
11		5220.000	54.65	8.29	62.94	74.00	-11.06	peak	
12		5220.000	38.94	8.29	47.23	54.00	-6.77	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: ZTDAC1

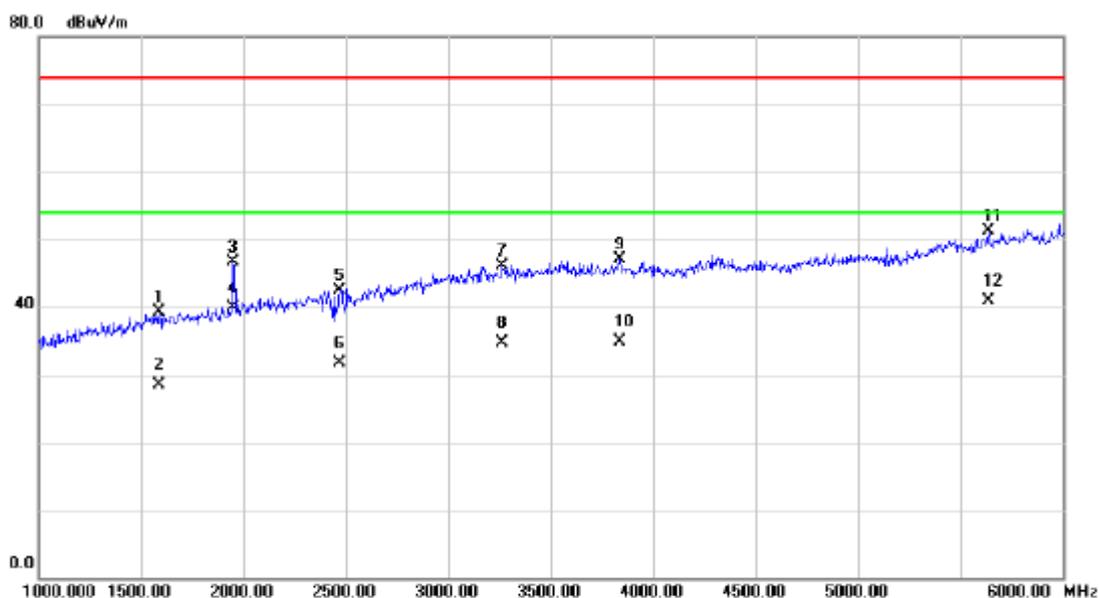
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	1200.000	42.78	-4.94	37.84	74.00	-36.16	peak	
2	1200.000	30.59	-4.94	25.65	54.00	-28.35	AVG	
3	1955.000	43.93	-2.08	41.85	74.00	-32.15	peak	
4	1955.000	35.50	-2.08	33.42	54.00	-20.58	AVG	
5	2440.000	44.22	-0.16	44.06	74.00	-29.94	peak	
6	2440.000	33.00	-0.16	32.84	54.00	-21.16	AVG	
7	3065.000	44.09	1.99	46.08	74.00	-27.92	peak	
8	3065.000	35.50	1.99	37.49	54.00	-16.51	AVG	
9	4355.000	40.56	6.84	47.40	74.00	-26.60	peak	
10	4355.000	31.19	6.84	38.03	54.00	-15.97	AVG	
11	5740.000	42.17	9.43	51.60	74.00	-22.40	peak	
12 *	5740.000	32.28	9.43	41.71	54.00	-12.29	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: ZTDAC1

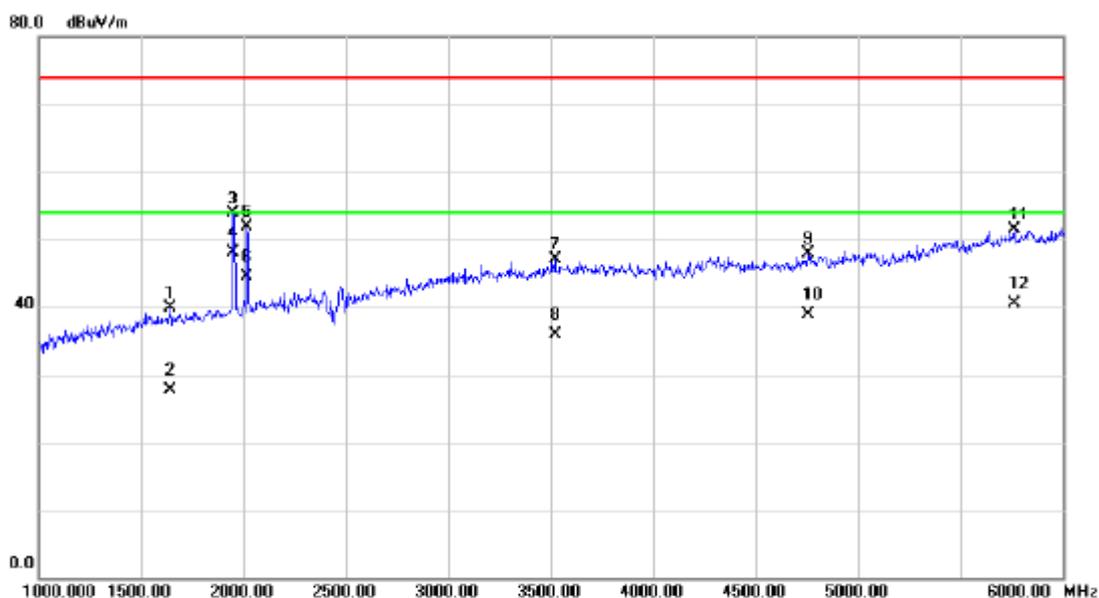
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		1590.000	43.06	-3.67	39.39	74.00	-34.61	peak	
2		1590.000	32.10	-3.67	28.43	54.00	-25.57	AVG	
3		1950.000	48.82	-2.10	46.72	74.00	-27.28	peak	
4		1950.000	42.07	-2.10	39.97	54.00	-14.03	AVG	
5		2470.000	42.63	-0.03	42.60	74.00	-31.40	peak	
6		2470.000	31.77	-0.03	31.74	54.00	-22.26	AVG	
7		3265.000	43.72	2.46	46.18	74.00	-27.82	peak	
8		3265.000	32.34	2.46	34.80	54.00	-19.20	AVG	
9		3835.000	41.61	5.42	47.03	74.00	-26.97	peak	
10		3835.000	29.44	5.42	34.86	54.00	-19.14	AVG	
11		5635.000	42.07	9.30	51.37	74.00	-22.63	peak	
12	*	5635.000	31.60	9.30	40.90	54.00	-13.10	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC12-HDQC/WH

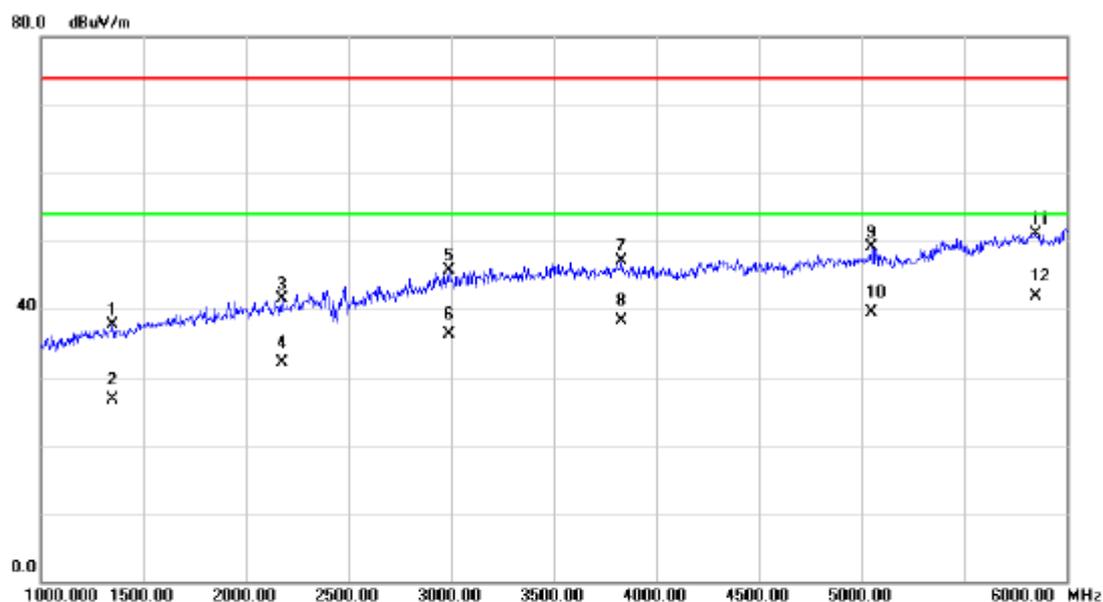
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		1645.000	43.43	-3.44	39.99	74.00	-34.01	peak	
2		1645.000	31.20	-3.44	27.76	54.00	-26.24	AVG	
3		1950.000	56.02	-2.10	53.92	74.00	-20.08	peak	
4	*	1950.000	50.29	-2.10	48.19	54.00	-5.81	AVG	
5		2015.000	53.78	-1.82	51.96	74.00	-22.04	peak	
6		2015.000	46.33	-1.82	44.51	54.00	-9.49	AVG	
7		3520.000	43.94	3.14	47.08	74.00	-26.92	peak	
8		3520.000	32.68	3.14	35.82	54.00	-18.18	AVG	
9		4755.000	40.68	7.29	47.97	74.00	-26.03	peak	
10		4755.000	31.66	7.29	38.95	54.00	-15.05	AVG	
11		5760.000	42.09	9.46	51.55	74.00	-22.45	peak	
12		5760.000	30.97	9.46	40.43	54.00	-13.57	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC12-HDQC/WH

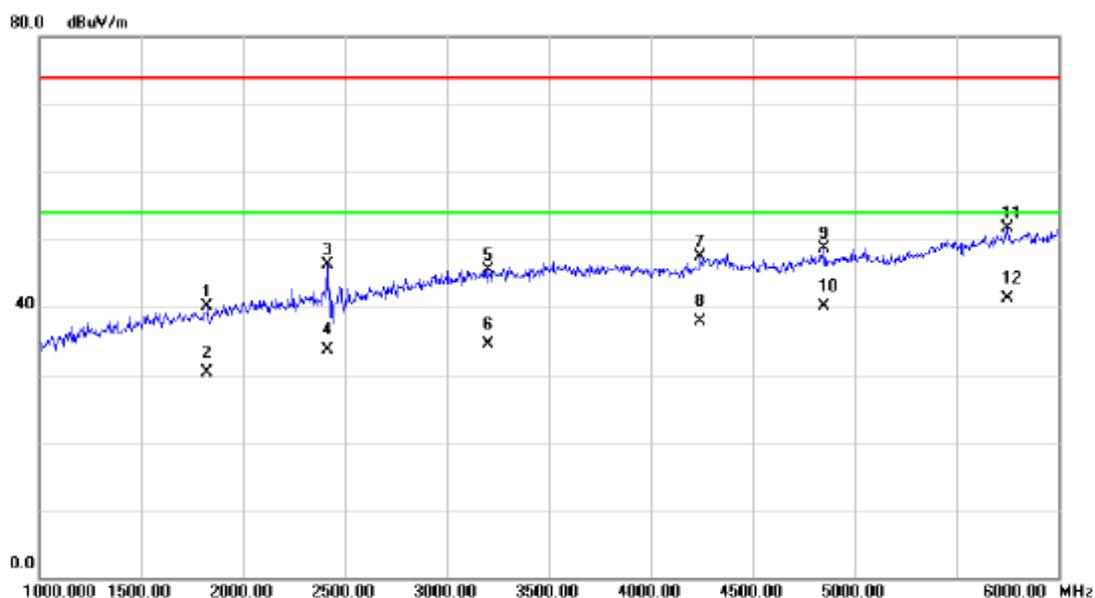
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	1350.000	42.19	-4.51	37.68	74.00	-36.32	peak	
2	1350.000	31.31	-4.51	26.80	54.00	-27.20	AVG	
3	2175.000	42.60	-1.19	41.41	74.00	-32.59	peak	
4	2175.000	33.32	-1.19	32.13	54.00	-21.87	AVG	
5	2990.000	43.92	1.80	45.72	74.00	-28.28	peak	
6	2990.000	34.42	1.80	36.22	54.00	-17.78	AVG	
7	3830.000	41.77	5.39	47.16	74.00	-26.84	peak	
8	3830.000	32.86	5.39	38.25	54.00	-15.75	AVG	
9	5050.000	41.22	7.79	49.01	74.00	-24.99	peak	
10	5050.000	31.81	7.79	39.60	54.00	-14.40	AVG	
11	5850.000	41.61	9.57	51.18	74.00	-22.82	peak	
12 *	5850.000	32.34	9.57	41.91	54.00	-12.09	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

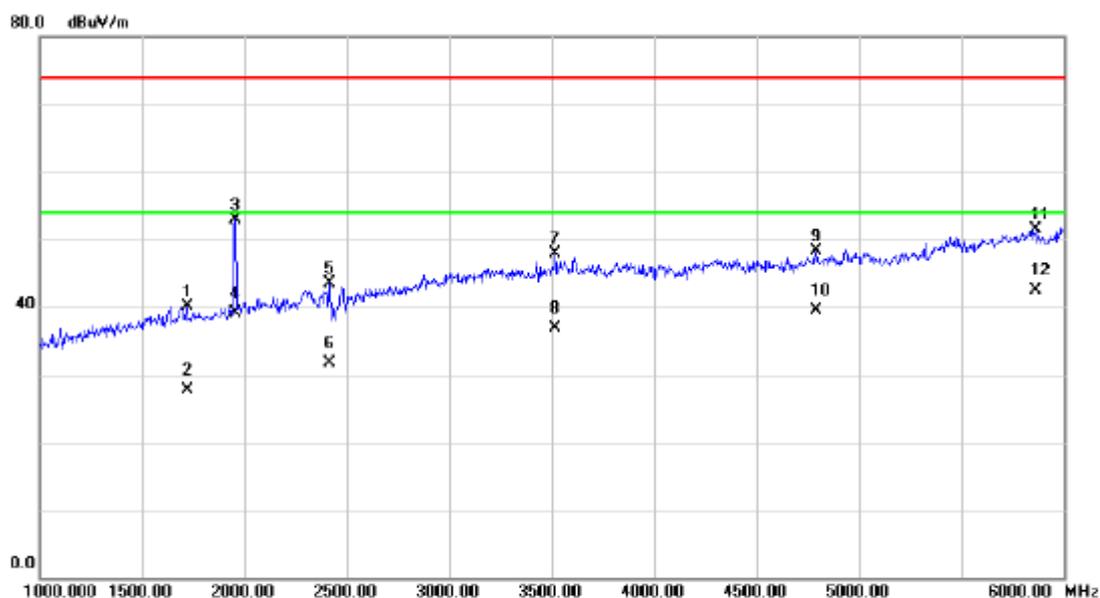
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	1825.000	42.85	-2.65	40.20	74.00	-33.80	peak	
2	1825.000	33.03	-2.65	30.38	54.00	-23.62	AVG	
3	2415.000	46.62	-0.25	46.37	74.00	-27.63	peak	
4	2415.000	33.95	-0.25	33.70	54.00	-20.30	AVG	
5	3200.000	43.18	2.31	45.49	74.00	-28.51	peak	
6	3200.000	32.23	2.31	34.54	54.00	-19.46	AVG	
7	4245.000	40.75	6.77	47.52	74.00	-26.48	peak	
8	4245.000	31.16	6.77	37.93	54.00	-16.07	AVG	
9	4850.000	41.30	7.43	48.73	74.00	-25.27	peak	
10	4850.000	32.71	7.43	40.14	54.00	-13.86	AVG	
11	5750.000	42.21	9.45	51.66	74.00	-22.34	peak	
12 *	5750.000	31.94	9.45	41.39	54.00	-12.61	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

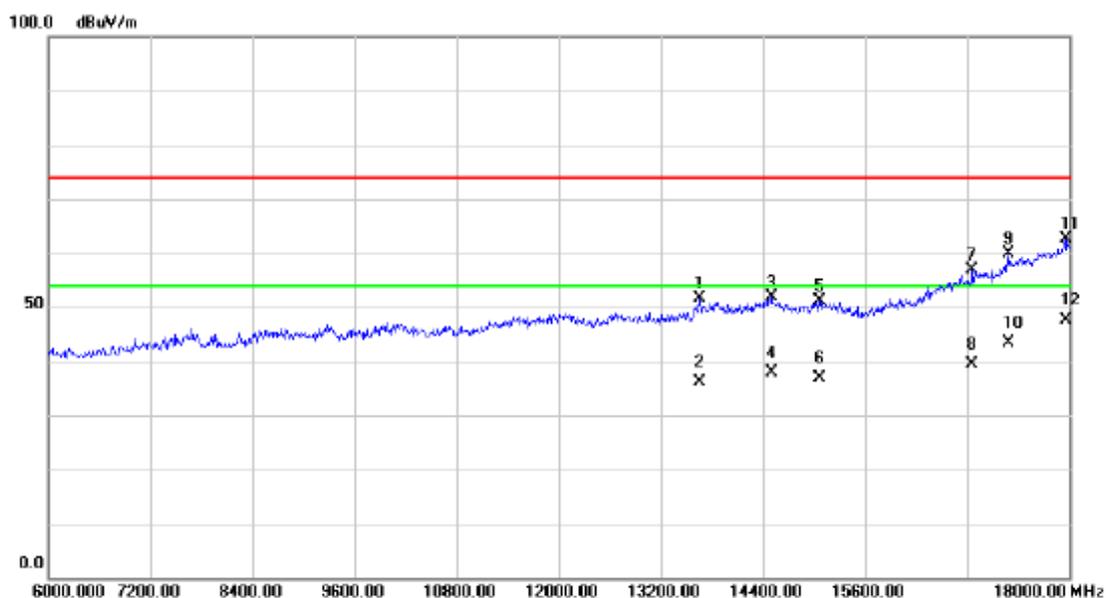
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	1720.000	43.20	-3.10	40.10	74.00	-33.90	peak	
2	1720.000	30.87	-3.10	27.77	54.00	-26.23	AVG	
3	1955.000	54.92	-2.08	52.84	74.00	-21.16	peak	
4	1955.000	41.27	-2.08	39.19	54.00	-14.81	AVG	
5	2415.000	43.69	-0.25	43.44	74.00	-30.56	peak	
6	2415.000	31.99	-0.25	31.74	54.00	-22.26	AVG	
7	3515.000	44.71	3.11	47.82	74.00	-26.18	peak	
8	3515.000	33.70	3.11	36.81	54.00	-17.19	AVG	
9	4790.000	40.97	7.34	48.31	74.00	-25.69	peak	
10	4790.000	32.11	7.34	39.45	54.00	-14.55	AVG	
11	5865.000	41.86	9.59	51.45	74.00	-22.55	peak	
12 *	5865.000	32.83	9.59	42.42	54.00	-11.58	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

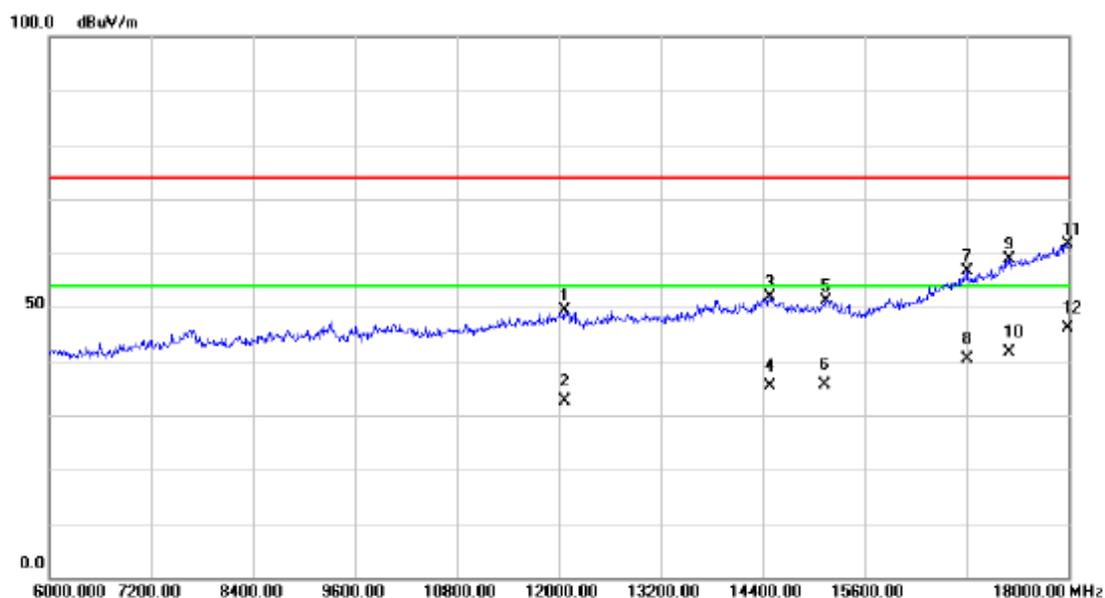
Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	13656.00	28.04	23.48	51.52	74.00	-22.48	peak	
2	13656.00	12.74	23.48	36.22	54.00	-17.78	AVG	
3	14502.00	25.84	26.02	51.86	74.00	-22.14	peak	
4	14502.00	11.82	26.02	37.84	54.00	-16.16	AVG	
5	15066.00	26.69	24.37	51.06	74.00	-22.94	peak	
6	15066.00	12.58	24.37	36.95	54.00	-17.05	AVG	
7	16860.00	31.05	25.76	56.81	74.00	-17.19	peak	
8	16860.00	13.65	25.76	39.41	54.00	-14.59	AVG	
9	17292.00	32.47	27.30	59.77	74.00	-14.23	peak	
10	17292.00	15.96	27.30	43.26	54.00	-10.74	AVG	
11	17964.00	29.55	32.99	62.54	74.00	-11.46	peak	
12 *	17964.00	14.67	32.99	47.66	54.00	-6.34	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 2.4G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

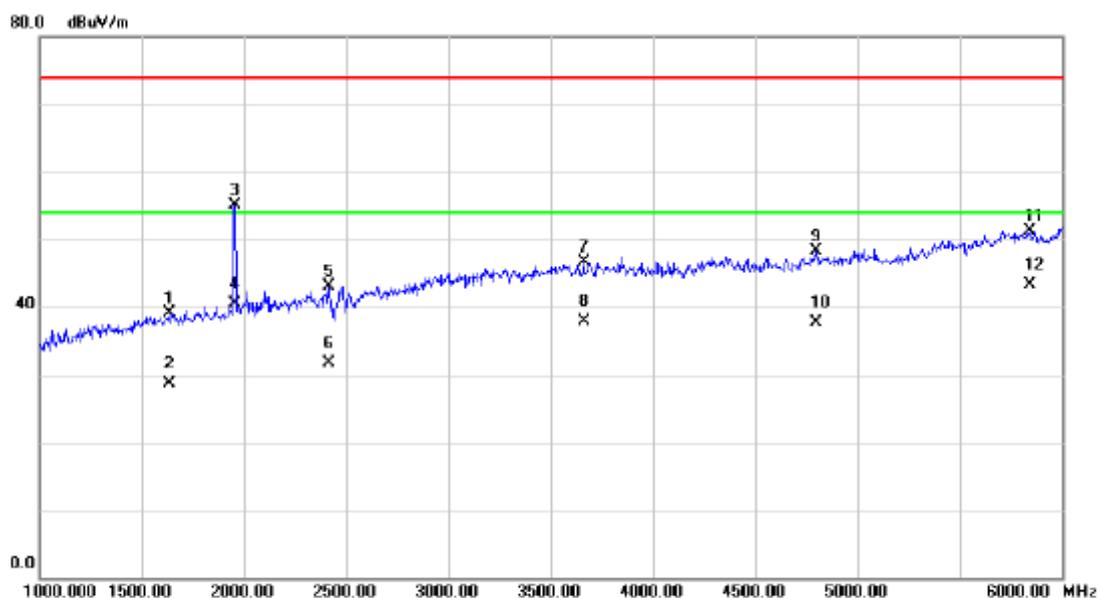
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		12072.00	26.85	22.50	49.35	74.00	-24.65	peak	
2		12072.00	10.08	22.50	32.58	54.00	-21.42	AVG	
3		14490.00	25.77	26.01	51.78	74.00	-22.22	peak	
4		14490.00	9.47	26.01	35.48	54.00	-18.52	AVG	
5		15138.00	27.55	23.66	51.21	74.00	-22.79	peak	
6		15138.00	11.94	23.66	35.60	54.00	-18.40	AVG	
7		16806.00	31.57	24.97	56.54	74.00	-17.46	peak	
8		16806.00	15.44	24.97	40.41	54.00	-13.59	AVG	
9		17304.00	31.67	27.29	58.96	74.00	-15.04	peak	
10		17304.00	14.33	27.29	41.62	54.00	-12.38	AVG	
11		17988.00	28.32	33.30	61.62	74.00	-12.38	peak	
12	*	17988.00	12.85	33.30	46.15	54.00	-7.85	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

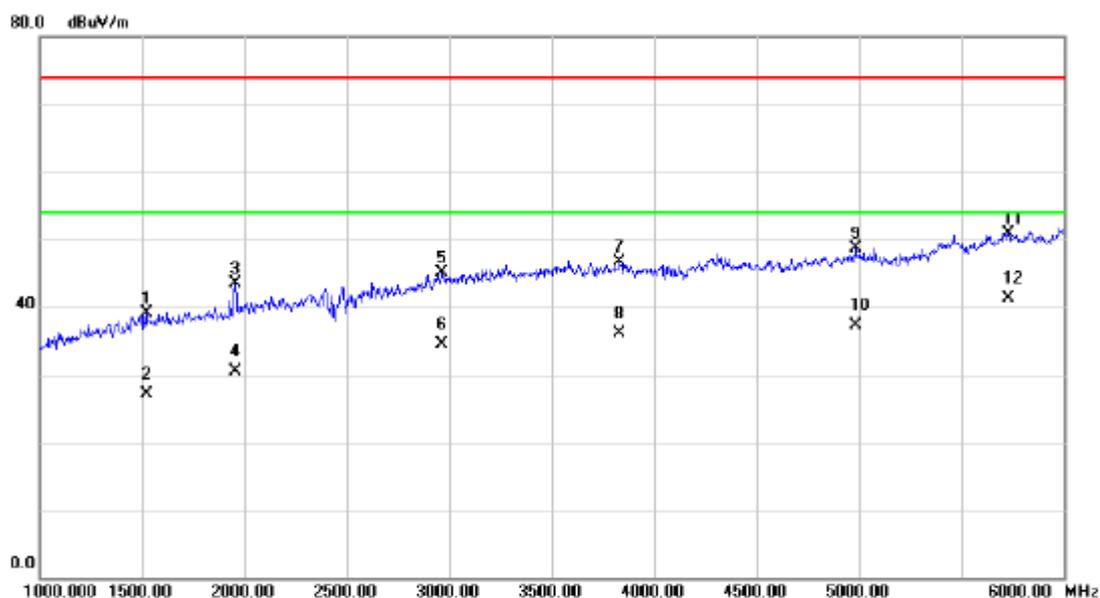
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		1635.000	42.59	-3.47	39.12	74.00	-34.88	peak	
2		1635.000	32.17	-3.47	28.70	54.00	-25.30	AVG	
3		1955.000	57.25	-2.08	55.17	74.00	-18.83	peak	
4		1955.000	42.54	-2.08	40.46	54.00	-13.54	AVG	
5		2415.000	43.43	-0.25	43.18	74.00	-30.82	peak	
6		2415.000	32.02	-0.25	31.77	54.00	-22.23	AVG	
7		3660.000	42.49	4.16	46.65	74.00	-27.35	peak	
8		3660.000	33.81	4.16	37.97	54.00	-16.03	AVG	
9		4795.000	40.92	7.34	48.26	74.00	-25.74	peak	
10		4795.000	30.30	7.34	37.64	54.00	-16.36	AVG	
11		5845.000	41.75	9.56	51.31	74.00	-22.69	peak	
12	*	5845.000	33.69	9.56	43.25	54.00	-10.75	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

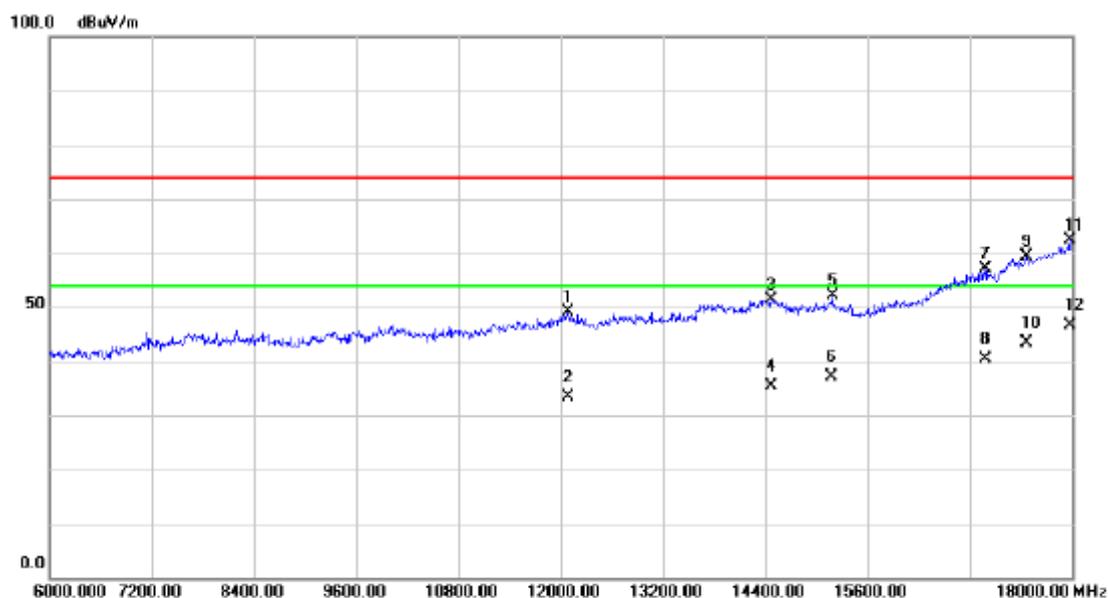
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	1520.000	43.17	-3.97	39.20	74.00	-34.80	peak	
2	1520.000	31.02	-3.97	27.05	54.00	-26.95	AVG	
3	1955.000	45.58	-2.08	43.50	74.00	-30.50	peak	
4	1955.000	32.60	-2.08	30.52	54.00	-23.48	AVG	
5	2965.000	43.34	1.71	45.05	74.00	-28.95	peak	
6	2965.000	32.86	1.71	34.57	54.00	-19.43	AVG	
7	3830.000	41.26	5.39	46.65	74.00	-27.35	peak	
8	3830.000	30.74	5.39	36.13	54.00	-17.87	AVG	
9	4980.000	41.12	7.61	48.73	74.00	-25.27	peak	
10	4980.000	29.70	7.61	37.31	54.00	-16.69	AVG	
11	5730.000	41.53	9.41	50.94	74.00	-23.06	peak	
12 *	5730.000	31.87	9.41	41.28	54.00	-12.72	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

Vertical



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	12090.00	26.88	22.30	49.18	74.00	-24.82	peak	
2	12090.00	10.96	22.30	33.26	54.00	-20.74	AVG	
3	14472.00	25.38	25.99	51.37	74.00	-22.63	peak	
4	14472.00	9.42	25.99	35.41	54.00	-18.59	AVG	
5	15186.00	29.01	23.19	52.20	74.00	-21.80	peak	
6	15186.00	13.83	23.19	37.02	54.00	-16.98	AVG	
7	16980.00	29.68	27.49	57.17	74.00	-16.83	peak	
8	16980.00	12.97	27.49	40.46	54.00	-13.54	AVG	
9	17460.00	32.22	27.04	59.26	74.00	-14.74	peak	
10	17460.00	16.40	27.04	43.44	54.00	-10.56	AVG	
11	17982.00	29.27	33.23	62.50	74.00	-11.50	peak	
12 *	17982.00	13.37	33.23	46.60	54.00	-7.40	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

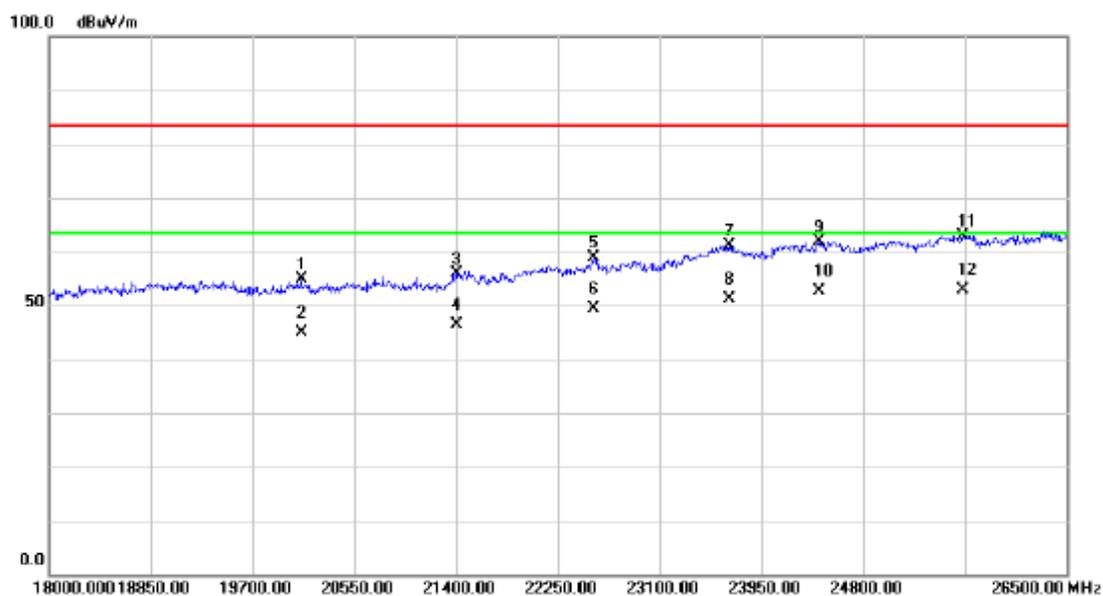
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		12774.00	29.19	19.99	49.18	74.00	-24.82	peak	
2		12774.00	13.53	19.99	33.52	54.00	-20.48	AVG	
3		14508.00	25.36	26.01	51.37	74.00	-22.63	peak	
4		14508.00	8.25	26.01	34.26	54.00	-19.74	AVG	
5		15168.00	27.90	23.37	51.27	74.00	-22.73	peak	
6		15168.00	11.21	23.37	34.58	54.00	-19.42	AVG	
7		16476.00	33.82	20.51	54.33	74.00	-19.67	peak	
8		16476.00	17.98	20.51	38.49	54.00	-15.51	AVG	
9		17424.00	31.84	27.10	58.94	74.00	-15.06	peak	
10		17424.00	15.52	27.10	42.62	54.00	-11.38	AVG	
11		17994.00	28.49	33.38	61.87	74.00	-12.13	peak	
12	*	17994.00	12.62	33.38	46.00	54.00	-8.00	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

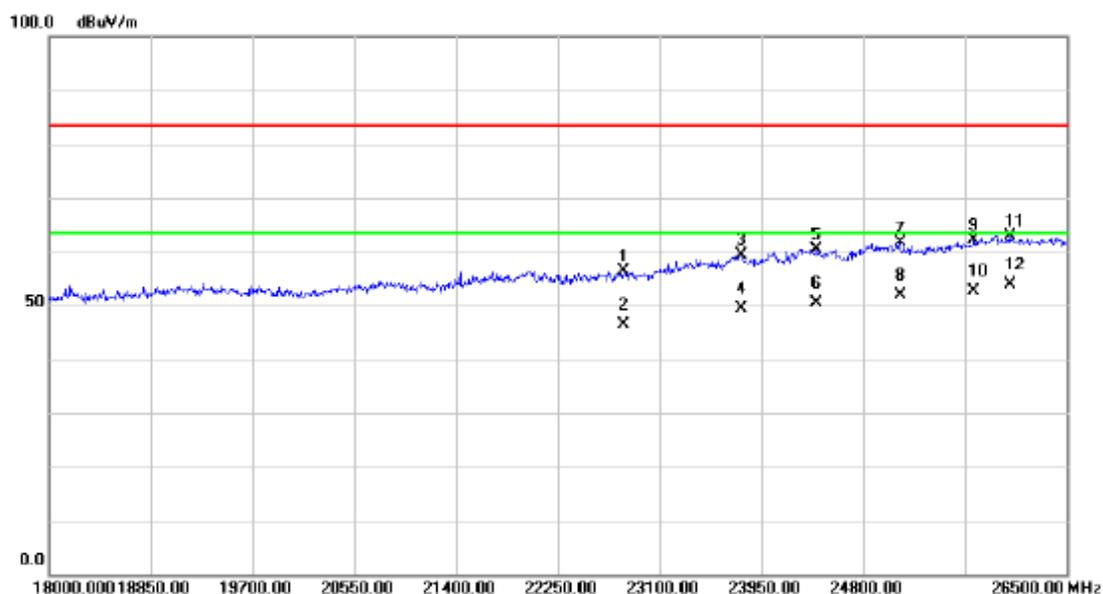
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		20108.00	31.82	22.96	54.78	83.50	-28.72	peak	
2		20108.00	21.82	22.96	44.78	63.50	-18.72	AVG	
3		21408.50	29.29	26.54	55.83	83.50	-27.67	peak	
4		21408.50	19.76	26.54	46.30	63.50	-17.20	AVG	
5		22547.50	33.38	25.38	58.76	83.50	-24.74	peak	
6		22547.50	23.96	25.38	49.34	63.50	-14.16	AVG	
7		23678.00	32.49	28.68	61.17	83.50	-22.33	peak	
8		23678.00	22.57	28.68	51.25	63.50	-12.25	AVG	
9		24434.50	34.40	27.59	61.99	83.50	-21.51	peak	
10		24434.50	25.01	27.59	52.60	63.50	-10.90	AVG	
11		25633.00	35.41	27.59	63.00	83.50	-20.50	peak	
12	*	25633.00	25.33	27.59	52.92	63.50	-10.58	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

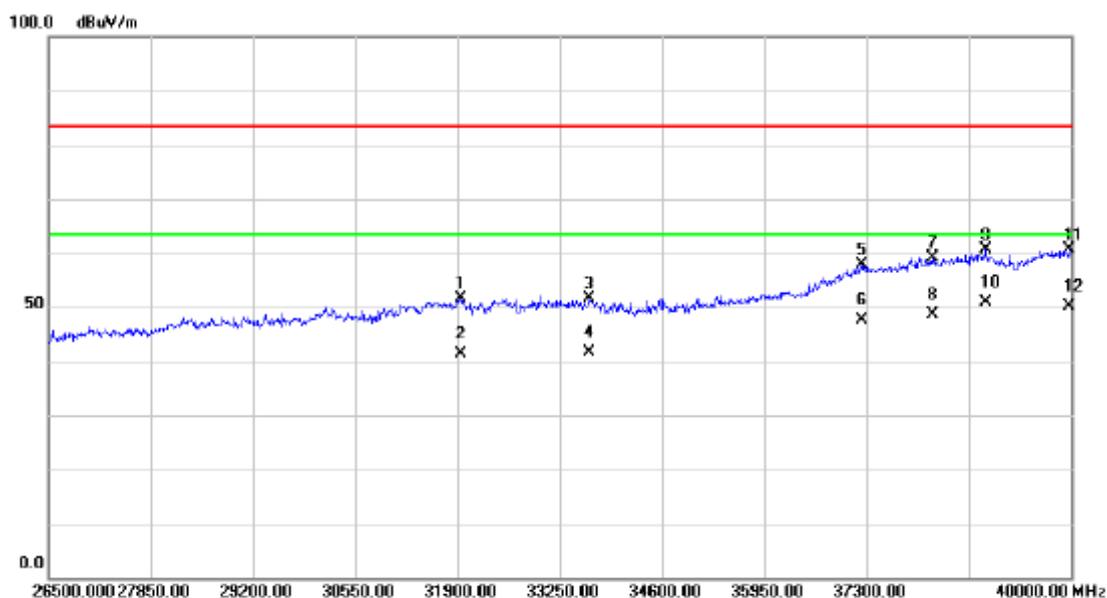
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	22794.00	29.13	27.32	56.45	83.50	-27.05	peak	
2	22794.00	18.96	27.32	46.28	63.50	-17.22	AVG	
3	23788.50	31.14	28.35	59.49	83.50	-24.01	peak	
4	23788.50	20.99	28.35	49.34	63.50	-14.16	AVG	
5	24409.00	32.86	27.60	60.46	83.50	-23.04	peak	
6	24409.00	22.79	27.60	50.39	63.50	-13.11	AVG	
7	25106.00	34.93	26.73	61.66	83.50	-21.84	peak	
8	25106.00	25.17	26.73	51.90	63.50	-11.60	AVG	
9	25726.50	34.12	27.96	62.08	83.50	-21.42	peak	
10	25726.50	24.78	27.96	52.74	63.50	-10.76	AVG	
11	26024.00	34.10	28.89	62.99	83.50	-20.51	peak	
12 *	26024.00	24.88	28.89	53.77	63.50	-9.73	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

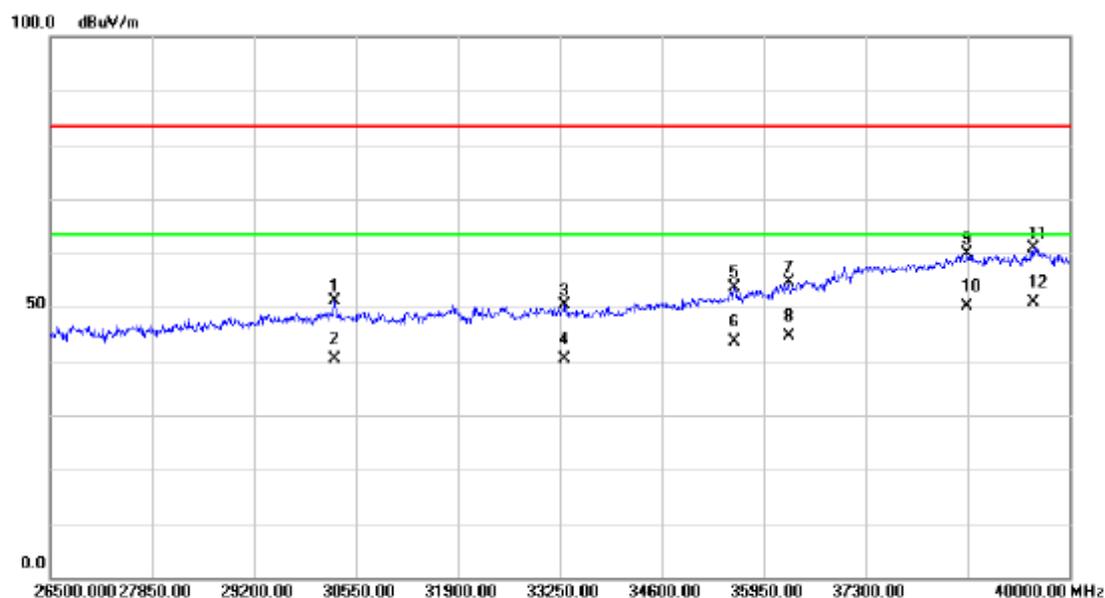
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		31940.50	64.30	-12.78	51.52	83.50	-31.98	peak	
2		31940.50	54.23	-12.78	41.45	63.50	-22.05	AVG	
3		33628.00	64.02	-12.47	51.55	83.50	-31.95	peak	
4		33628.00	54.11	-12.47	41.64	63.50	-21.86	AVG	
5		37232.50	66.98	-9.19	57.79	83.50	-25.71	peak	
6		37232.50	56.88	-9.19	47.69	63.50	-15.81	AVG	
7		38164.00	66.79	-7.61	59.18	83.50	-24.32	peak	
8		38164.00	56.31	-7.61	48.70	63.50	-14.80	AVG	
9		38866.00	66.67	-6.13	60.54	83.50	-22.96	peak	
10	*	38866.00	56.94	-6.13	50.81	63.50	-12.69	AVG	
11		39973.00	65.60	-4.85	60.75	83.50	-22.75	peak	
12		39973.00	55.10	-4.85	50.25	63.50	-13.25	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	Traffic + 5G Wifi + Playing _Adapter: SB-AC13-HDMU/WH

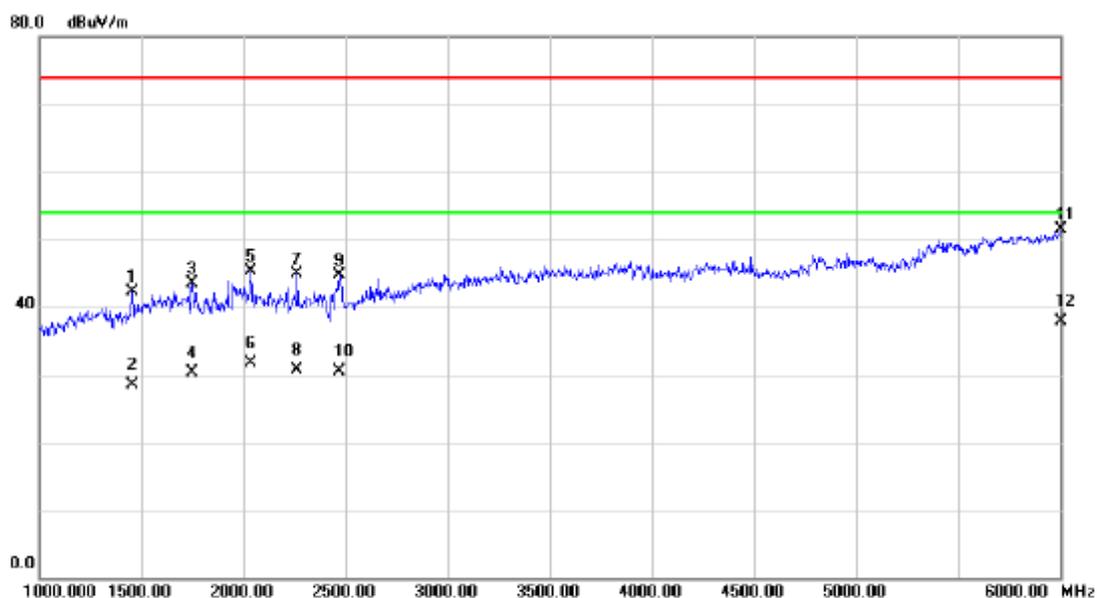
Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	30266.50	64.49	-13.25	51.24	83.50	-32.26	peak	
2	30266.50	53.70	-13.25	40.45	63.50	-23.05	AVG	
3	33317.50	63.04	-12.61	50.43	83.50	-33.07	peak	
4	33317.50	52.93	-12.61	40.32	63.50	-23.18	AVG	
5	35558.50	63.65	-10.12	53.53	83.50	-29.97	peak	
6	35558.50	53.76	-10.12	43.64	63.50	-19.86	AVG	
7	36274.00	64.57	-10.00	54.57	83.50	-28.93	peak	
8	36274.00	54.51	-10.00	44.51	63.50	-18.99	AVG	
9	38636.50	67.13	-7.23	59.90	83.50	-23.60	peak	
10	38636.50	57.35	-7.23	50.12	63.50	-13.38	AVG	
11	39514.00	66.09	-5.20	60.89	83.50	-22.61	peak	
12 *	39514.00	56.13	-5.20	50.93	63.50	-12.57	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	USB Copy (EUT with PC)

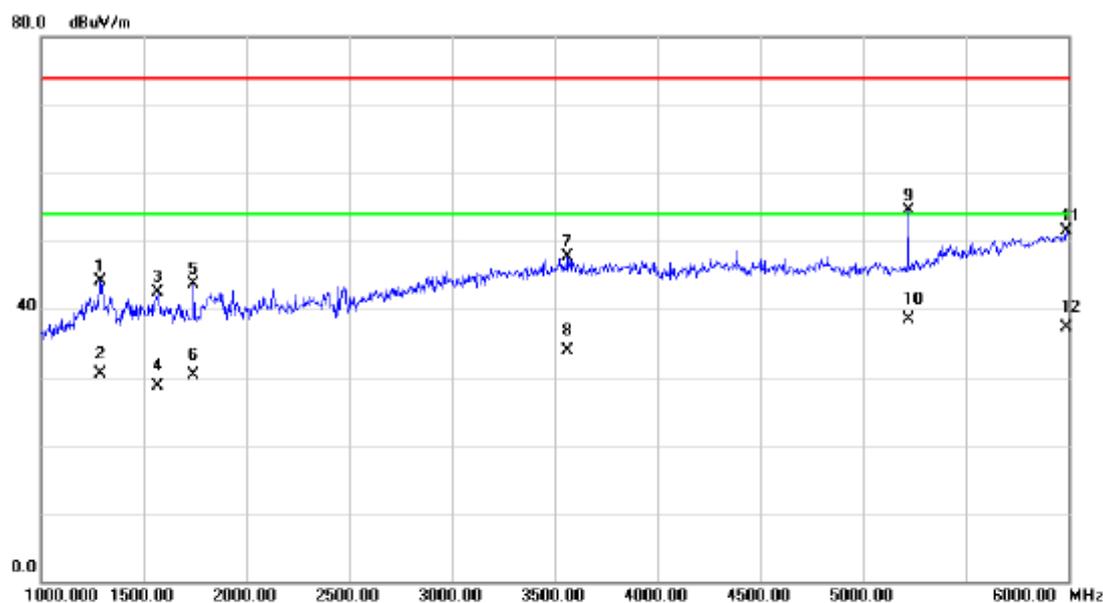
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		1455.000	46.44	-4.19	42.25	74.00	-31.75	peak	
2		1455.000	32.67	-4.19	28.48	54.00	-25.52	AVG	
3		1750.000	46.42	-2.97	43.45	74.00	-30.55	peak	
4		1750.000	33.24	-2.97	30.27	54.00	-23.73	AVG	
5		2035.000	46.96	-1.74	45.22	74.00	-28.78	peak	
6		2035.000	33.45	-1.74	31.71	54.00	-22.29	AVG	
7		2265.000	45.77	-0.84	44.93	74.00	-29.07	peak	
8		2265.000	31.45	-0.84	30.61	54.00	-23.39	AVG	
9		2470.000	44.79	-0.03	44.76	74.00	-29.24	peak	
10		2470.000	30.55	-0.03	30.52	54.00	-23.48	AVG	
11		6000.000	41.79	9.75	51.54	74.00	-22.46	peak	
12	*	6000.000	28.15	9.75	37.90	54.00	-16.10	AVG	

Test Voltage:	AC 120V/60Hz
Test Mode:	USB Copy (EUT with PC)

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		1290.000	48.70	-4.68	44.02	74.00	-29.98	peak	
2		1290.000	35.12	-4.68	30.44	54.00	-23.56	AVG	
3		1570.000	46.23	-3.76	42.47	74.00	-31.53	peak	
4		1570.000	32.41	-3.76	28.65	54.00	-25.35	AVG	
5		1745.000	46.62	-2.99	43.63	74.00	-30.37	peak	
6		1745.000	33.26	-2.99	30.27	54.00	-23.73	AVG	
7		3560.000	44.23	3.43	47.66	74.00	-26.34	peak	
8		3560.000	30.46	3.43	33.89	54.00	-20.11	AVG	
9		5220.000	46.15	8.29	54.44	74.00	-19.56	peak	
10	*	5220.000	30.12	8.29	38.41	54.00	-15.59	AVG	
11		5990.000	41.69	9.74	51.43	74.00	-22.57	peak	
12		5990.000	27.54	9.74	37.28	54.00	-16.72	AVG	