

Prüfbericht-Nr.: <i>Test Report No.:</i>	50214915 001	Auftrags-Nr.: <i>Order No.:</i>	154382838	Seite 1 von 22 <i>Page 1 of 22</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	60051577	Auftragsdatum: <i>Order date.:</i>	21.12.2018	
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702 SE-343 81 Älmhult Sweden			
Prüfgegenstand: <i>Test item:</i>	Wake-up Light FNURRA			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	E1803			
Auftrags-Inhalt: <i>Order content:</i>	EMC test			
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15, Subpart B:2018 Class B ICES-005:2018			
Wareneingangsdatum: <i>Date of receipt:</i>	07.01.2019	Refer to the EUT photos file		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000883429-001			
Prüfzeitraum: <i>Testing period:</i>	Refer to test report			
Ort der Prüfung: <i>Place of testing:</i>	EMC laboratory			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
				
20.06.2019	Jessie Xu/Senior project engineer	20.06.2019	Jiayi Zhou/Senior manager	
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>
Sonstiges / Other:				
FCC ID: FHO-E1803				
Test Firm Registration Number: 958801				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet				
Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.				
<i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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TEST SUMMARY

4.1.1 MAINS TERMINAL CONTINUOUS DISTURBANCE VOLTAGE

Result:

Passed

4.2.1 RADIATED EMISSION

Result:

Passed

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1 Test Sites

1.1 Test Facilities

Laboratory: TÜV Rheinland (Shanghai) Co., Ltd.

Address: No.177, 178, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, China

The used test equipment is in accordance with CISPR 16-1 series standards for measurement of radio interference.

1.2 List of Test and Measurement Instruments

Table 1: List of test and measurement equipment

No.	Equipment	Model	Serial no./ software version	Cal. Due date	Cal. interval
1.	EMI test receiver	ESIB26	100227	20.04.2020	1 year
2.	Artificial mains network	ENV216	100122	18.02.2020	1 year
3.	3m modified semi-anechoic chamber	SAC3	FJ129002	14.05.2020	4 years
4.	EMI test receiver	ESCI	100280	02.11.2019	1 year
5.	Bilog antenna	CBL 6112D	40530	02.11.2019	3 years
6.	EMC measurement software	EMC32	10.20.01	N/A	N/A

2 General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is an ordinary wake-up light for household and similar use. For the further information, refer to the user's manual.

2.2 Ratings and System Details

System input	:	DC 4.5V for battery DC 5V, 1A for USB port
Rated power	:	5W
Protection Class	:	III

2.3 Independent Operation Modes

The basic operation modes are: "On" and "Standby" etc.

2.4 Description of interconnecting cables

None.

2.5 Noise Generating and Noise Suppressing Parts

Refer to the circuit diagram for further information.

2.6 Highest frequency generated or used in the device or on which the device operates or tunes

The highest frequency used in the EUT is less than 108MHz.

2.7 Submitted Documents

Circuit diagram and rating label.

3 Test Set-up and Operation Modes

3.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible emission level. The test conditions were adapted accordingly in reference to the instructions for use.

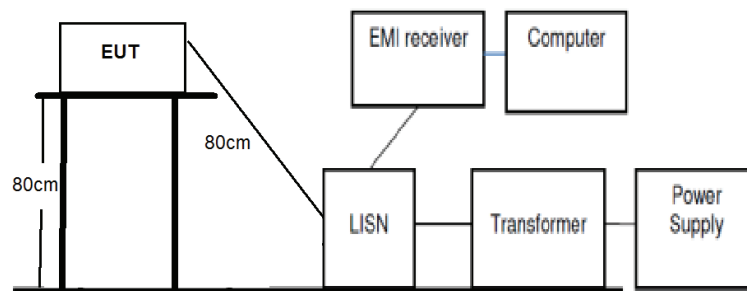
Refer to the related paragraph of this report.

3.2 Physical Configuration for Testing

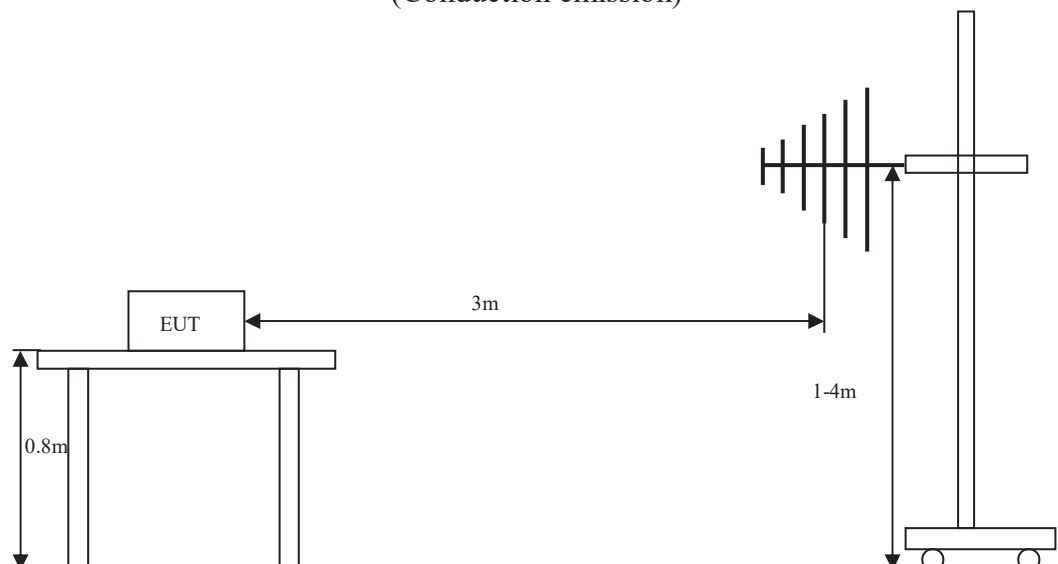
Refer to the related paragraph of this report.

3.3 Equipment and cable arrangement

Block diagram for both conducted emission and radiated emission tests are as follows:



(Conduction emission)



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Also refer to photographs on section 6 for test setups for conducted emission and radiated emission test.

3.4 Test Operation and Test Software

Refer to the related paragraph of this report. No software was used.

3.5 Special Accessories and Auxiliary Equipment

During the tests, the EUT were powered by internal battery , the computer (Manufacture: Thinkpad , Model: X270) and adapter (Manufacture: Oneplus , Model: AY0520) through USB port.

3.6 Countermeasures to achieve EMC Compliance

No other special measure is employed to achieve the requirement.

4 Test Results EMISSION

4.1 Emission in the Frequency Range up to 30 MHz

4.1.1 Mains Terminal Continuous Disturbance Voltage

Result:		Passed
Date of testing	: 19.06.2019	
Test procedure	: FCC 47 CFR Part 15, Subpart B:2018, ICES-003:2016, ANSI C63.4-2014 and CISPR 16-1 series standards	
Product category	: Class B	
Frequency range	: 0.15 – 30MHz	
Limits	: Quasi-peak limit: 0.15-0.5MHz, 66 to 56dB μ V (decrease with the logarithm of frequency); 0.5-5MHz, 56 dB μ V; 5-30MHz, 60 dB μ V Average limit: 0.15-0.5MHz, 56 to 46 dB μ V (decrease with the logarithm of frequency); 0.5-5MHz, 46 dB μ V; 5-30MHz, 50dB μ V	
Operational mode	: Charging with adapter , clock alarm and lighting on	
Kind of test site	: Shielded room	
Ambient condition	: Temperature: 23.2°C; Relative humidity: 45.7%	
Expanded measurement uncertainty ($k=2$)	: 3.39dB	
Test Setup		
Test voltage	: AC 120V, 60Hz (for adapter)	
Artificial hand	: N/A	
Earthing	: No earthed	

The measurement setup was made according to ANSI C63.4-2014 in a shielded room.

The measurement equipment like test receivers, quasi-peak detector and artificial mains network (AMN) are in compliance with CISPR 16-1 series standards.

Furthermore an internal calibration with the test receiver was conducted prior to each measurement. The tested object was placed on a wooden support above reference ground plane. The EUT was set 0.8m away from the AMN. The cord longer than necessary to be connected to the AMN was folded forth and back parallel so as to form a bundle with a length between 0.3m and 0.4m.

Following figures and tables are the measurement results. Both Quasi-Peak and Average Value were measured. In the Figures, “◆” means Quasi-Peak Value and “◆” means Average Value which was measured in final measurement. The disturbance voltage test was performed on the neutral line and phase line of the power supply of the EUT respectively.

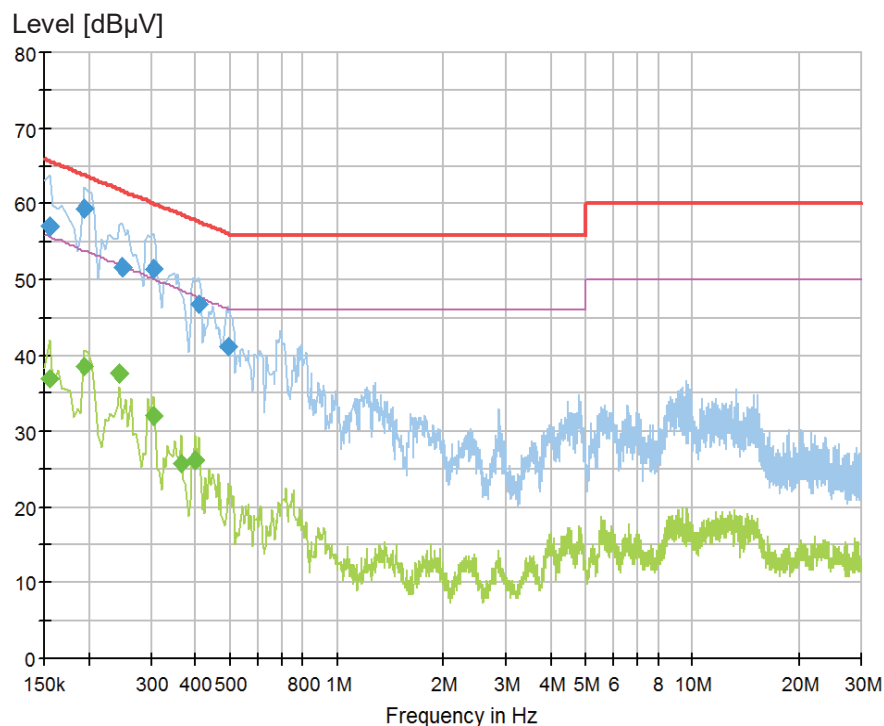
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Figure 1: Spectral Diagrams, Conducted Emission, 150kHz-30MHz, L



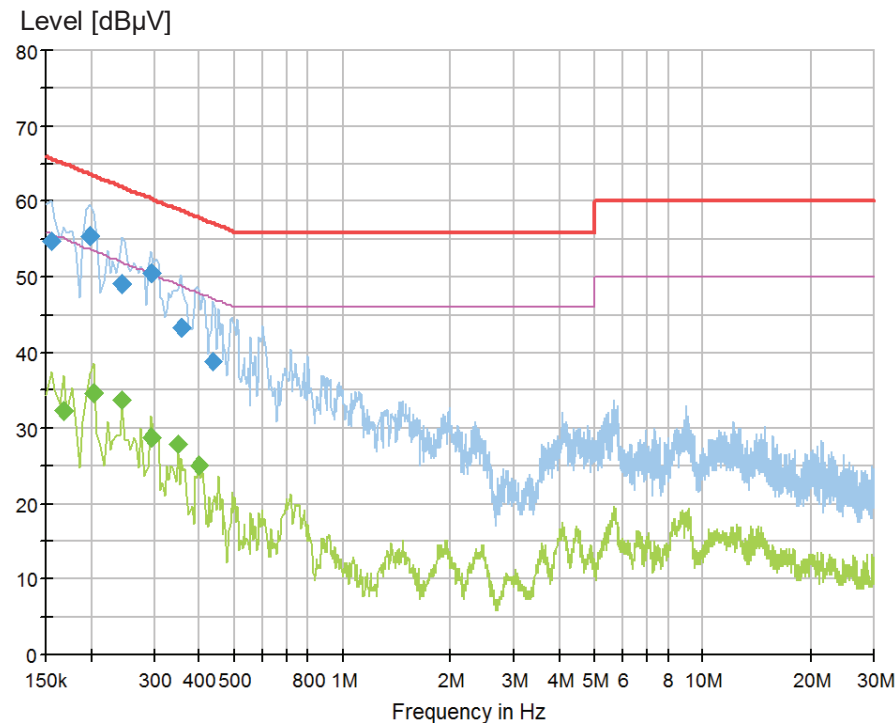
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154500	57.03	65.75	8.72	1000.0	9.000	L1	ON	9.8
0.195000	59.47	63.82	4.35	1000.0	9.000	L1	ON	9.9
0.249000	51.78	61.79	10.01	1000.0	9.000	L1	ON	9.9
0.303000	51.53	60.16	8.63	1000.0	9.000	L1	ON	9.9
0.406500	46.76	57.72	10.96	1000.0	9.000	L1	ON	9.9
0.496500	41.16	56.06	14.90	1000.0	9.000	L1	ON	9.9

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154500	37.03	55.75	18.72	1000.0	9.000	L1	ON	9.8
0.195000	38.51	53.82	15.31	1000.0	9.000	L1	ON	9.9
0.244500	37.61	51.94	14.33	1000.0	9.000	L1	ON	9.9
0.303000	31.94	50.16	18.22	1000.0	9.000	L1	ON	9.9
0.366000	25.62	48.59	22.97	1000.0	9.000	L1	ON	9.9
0.397500	26.13	47.91	21.77	1000.0	9.000	L1	ON	9.9

Figure 2: Spectral Diagrams, Conducted Emission, 150kHz-30MHz, N



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154500	54.76	65.75	10.99	1000.0	9.000	N	ON	9.8
0.199500	55.39	63.63	8.25	1000.0	9.000	N	ON	9.8
0.244500	49.05	61.94	12.89	1000.0	9.000	N	ON	9.8
0.294000	50.64	60.41	9.77	1000.0	9.000	N	ON	9.8
0.357000	43.19	58.80	15.61	1000.0	9.000	N	ON	9.8
0.438000	38.83	57.10	18.27	1000.0	9.000	N	ON	9.8

Final Average measurement result:

Frequency (MHz)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.168000	32.30	55.06	22.76	1000.0	9.000	N	ON	9.8
0.204000	34.59	53.45	18.86	1000.0	9.000	N	ON	9.8
0.244500	33.71	51.94	18.23	1000.0	9.000	N	ON	9.8
0.294000	28.87	50.41	21.54	1000.0	9.000	N	ON	9.8
0.348000	27.90	49.01	21.11	1000.0	9.000	N	ON	9.8
0.397500	25.10	47.91	22.80	1000.0	9.000	N	ON	9.8

4.2 Emission in the Frequency Range above 30 MHz

4.2.1 Radiated emission

Result:	Passed
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Date of testing	: 11.03.2019 and 19.06.2019
Test procedure	: FCC 47 CFR Part 15, Subpart B:2018, ICES-005:2018, ANSI C63.4-2014 and CISPR 16-1 series standards
Product classification	: Class B
Frequency range	: 30 – 1000MHz (see Note 1)
Limits	: Quasi-peak limits (3m distance): FCC 47 CFR Part 15, Subpart B:2018: 30-88MHz, 40dB μ V/m; 88-216MHz, 43.5dB μ V/m; 216-960MHz, 46dB μ V/m; Above 960MHz, 54dB μ V/m. ICES-005:2018: 30-88MHz, 40dB μ V/m; 88-216MHz, 43.5dB μ V/m; 216-1000MHz, 46dB μ V/m
Measurement distance	: 3m
Kind of test site	: Semi-anechoic chamber
Ambient condition	: Temperature: 23.4°C; Relative humidity: 40.7%
Expanded measurement uncertainty ($k=2$)	: 5.49dB

Test Setup

Input voltage	: DC 5V and AC 120V
Operational mode	: Mode 1: charging with computer, clock alarm and lighting on Mode 2: charging with adapter, clock alarm and lighting on
Earthing	: No earthing.

The radiated disturbance test was carried out in a semi-anechoic chamber. The test distance from the receiving antenna to the EUT is 3m. The normalized site attenuation of the semi-anechoic chamber is regularly calibrated to ensure the radiated disturbance test results are valid. During the test, the EUT was placed on a wooden table which is 0.8m high above the turn table. The turn table was rotated 360° around and the antenna was varied from 1m to 4m to find the maximum disturbance. The test was performed with the antenna both in its horizontal and vertical polarizations.

The following figures and tables were those measured by test software. A preview test was firstly performed with peak detector. The final test was performed with quasi-peak at those critical frequencies during the preview test. In the following figures, “ $\times$ ” means final measurement results with quasi-peak detector.

Notes on following tables of radiated emission results and conversions:

QuasiPeak (dB μ V/m): final measurement results by using quasi-peak detector

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Corr. (dB): correction factor including: antenna factor, cable loss, and gain of pre-amplifier (if used)

Margin: Limit (dB μ V/m) - QuasiPeak (dB μ V/m)

Note 1: The highest frequency of the internal sources of the EUT is less than 108 MHz, so according to FCC 47 CFR Part 15, Subpart B:2018 clause 15.33 (b), this measurement was only made up to 1GHz.

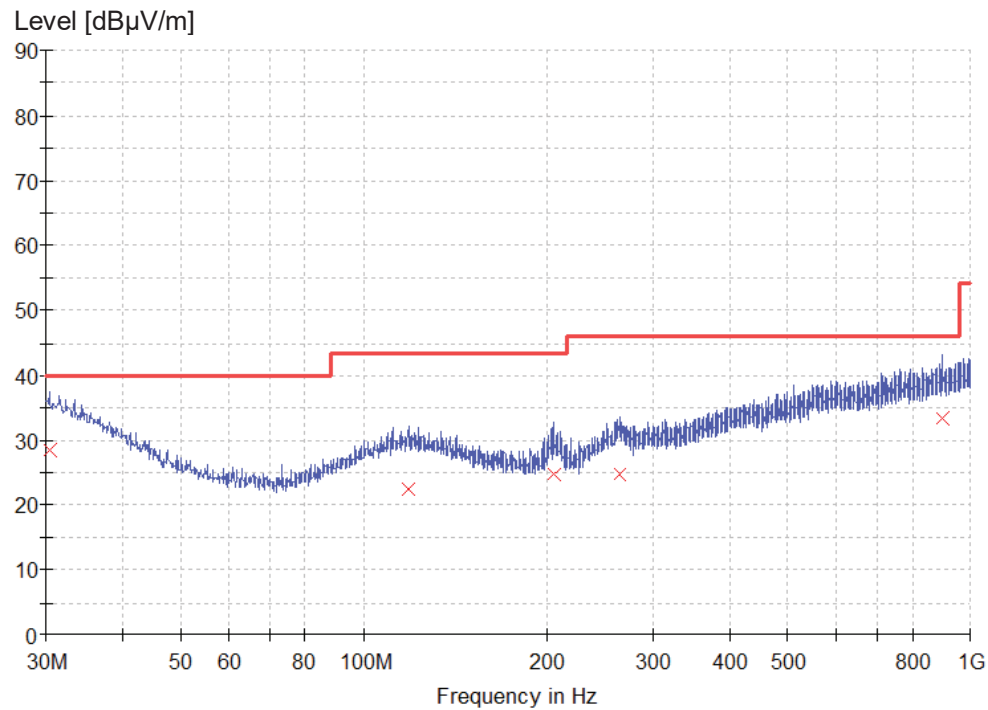
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Figure 3: Spectral Diagrams and measurement results, FCC 47 CFR Part 15, Subpart B:2018, horizontal polarization for mode 1



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
30.363750	28.4	1000.0	120.000	150.0	H	90.0	25.2	11.6	40.0
118.148750	22.4	1000.0	120.000	150.0	H	45.0	19.3	21.1	43.5
206.297500	24.6	1000.0	120.000	100.0	H	0.0	16.7	18.9	43.5
263.527500	24.7	1000.0	120.000	200.0	H	0.0	21.5	21.3	46.0
898.998750	33.4	1000.0	120.000	150.0	H	0.0	28.8	12.6	46.0

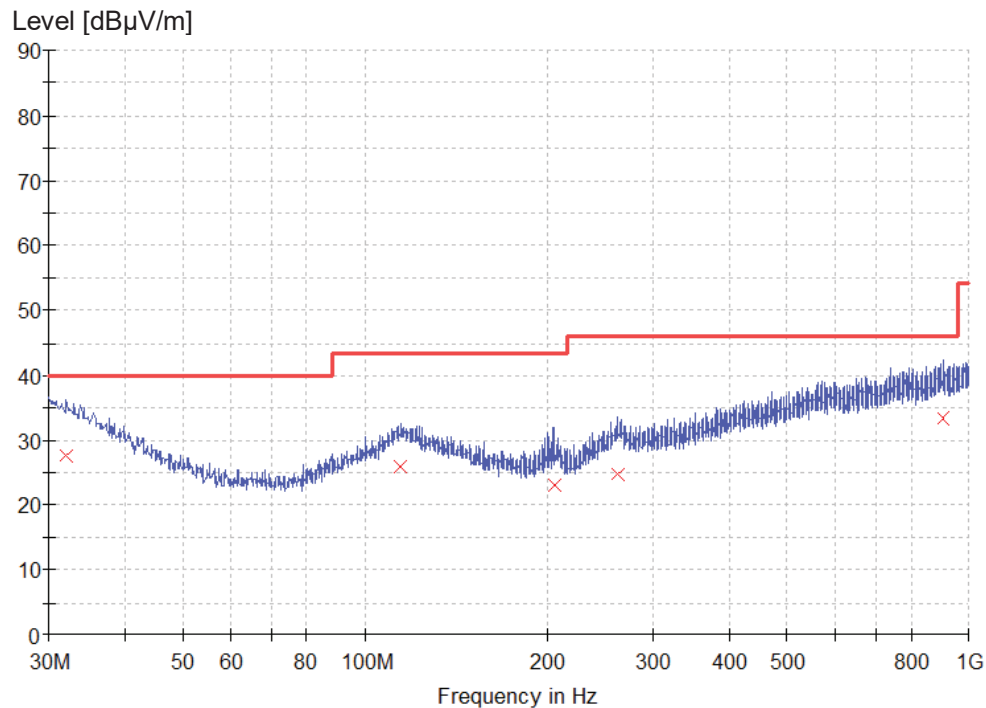
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Figure 4: Spectral Diagrams and measurement results, FCC 47 CFR Part 15, Subpart B:2018, vertical polarization for mode 1



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
32.061250	27.6	1000.0	120.000	100.0	V	0.0	24.3	12.4	40.0
114.390000	25.9	1000.0	120.000	100.0	V	0.0	19.2	17.6	43.5
206.297500	22.9	1000.0	120.000	150.0	V	45.0	16.7	20.6	43.5
262.315000	24.7	1000.0	120.000	150.0	V	45.0	21.4	21.3	46.0
906.637500	33.4	1000.0	120.000	150.0	V	90.0	28.8	12.6	46.0

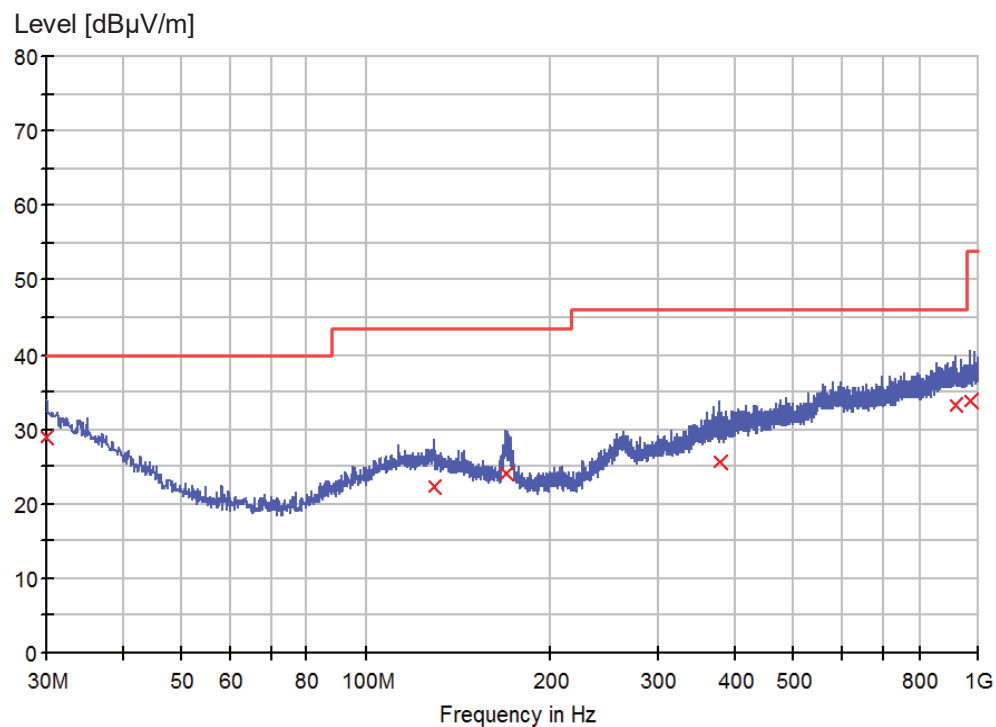
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Figure 5: Spectral Diagrams and measurement results, FCC 47 CFR Part 15, Subpart B:2018, horizontal polarization for mode 2



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB μ
30.000000	28.8	1000.0	120.000	100.0	H	0.0	25.4	11.2	40.0
129.182500	22.2	1000.0	120.000	100.0	H	-90.0	18.9	21.3	43.5
169.558750	24.0	1000.0	120.000	150.0	H	-90.0	16.5	19.5	43.5
378.715000	25.6	1000.0	120.000	100.0	H	0.0	22.5	20.4	46.0
915.973750	33.3	1000.0	120.000	150.0	H	90.0	28.8	12.7	46.0
974.537500	33.7	1000.0	120.000	150.0	H	90.0	29.4	20.3	54.0

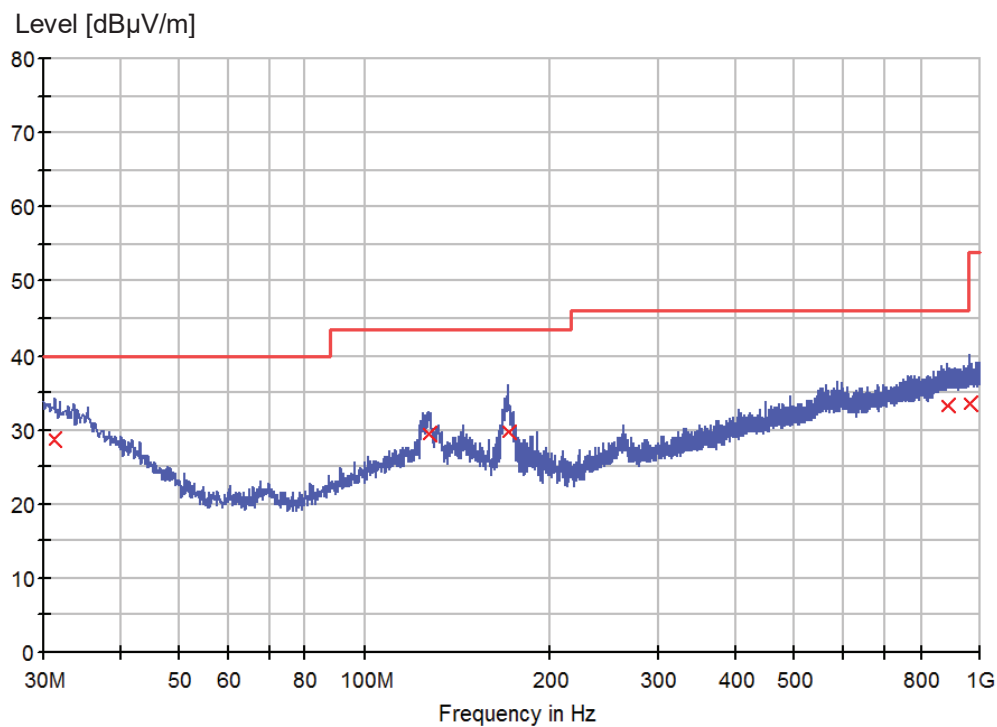
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Figure 6: Spectral Diagrams and measurement results, FCC 47 CFR Part 15, Subpart B:2018, vertical polarization for mode 2



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB μ)
31.333750	28.7	1000.0	120.000	100.0	V	0.0	24.7	11.3	40.0
127.000000	29.5	1000.0	120.000	100.0	V	-90.0	19.0	14.0	43.5
171.741250	29.8	1000.0	120.000	100.0	V	45.0	16.4	13.7	43.5
885.903750	33.2	1000.0	120.000	150.0	V	180.0	28.6	12.8	46.0
964.352500	33.6	1000.0	120.000	150.0	V	180.0	29.3	20.4	54.0

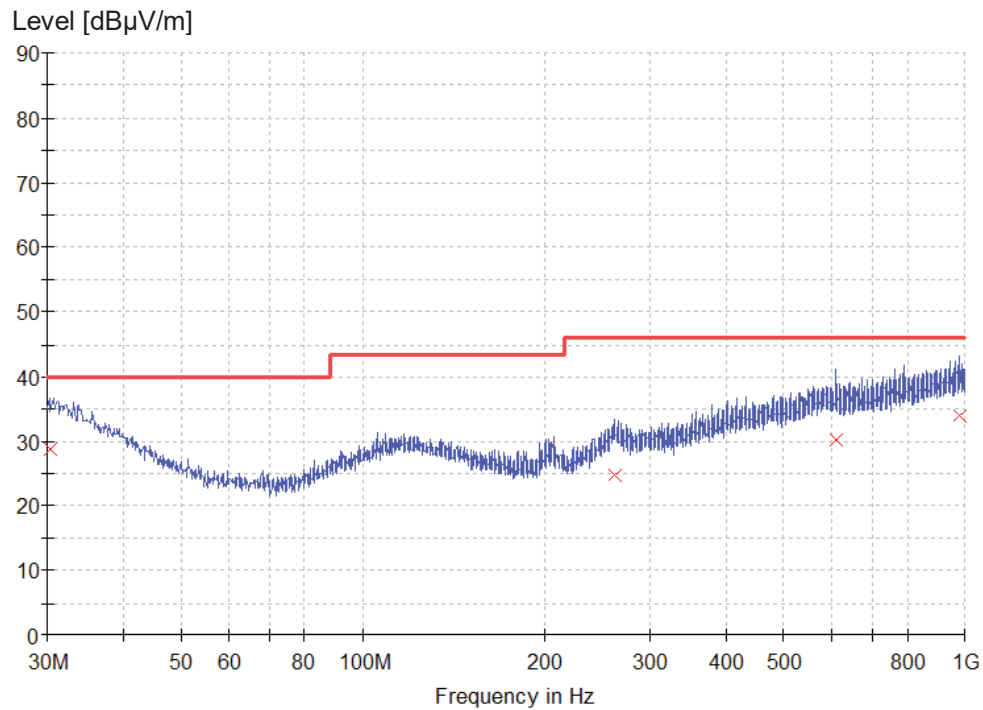
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Figure 7: Spectral Diagrams and measurement results, ICES-005:2018, horizontal polarization for mode 1



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
30.121250	28.7	1000.0	120.000	150.0	H	0.0	25.3	11.3	40.0
262.193750	24.7	1000.0	120.000	100.0	H	0.0	21.4	21.3	46.0
610.060000	30.1	1000.0	120.000	150.0	H	45.0	26.7	15.9	46.0
981.327500	33.8	1000.0	120.000	200.0	H	90.0	29.5	12.2	46.0

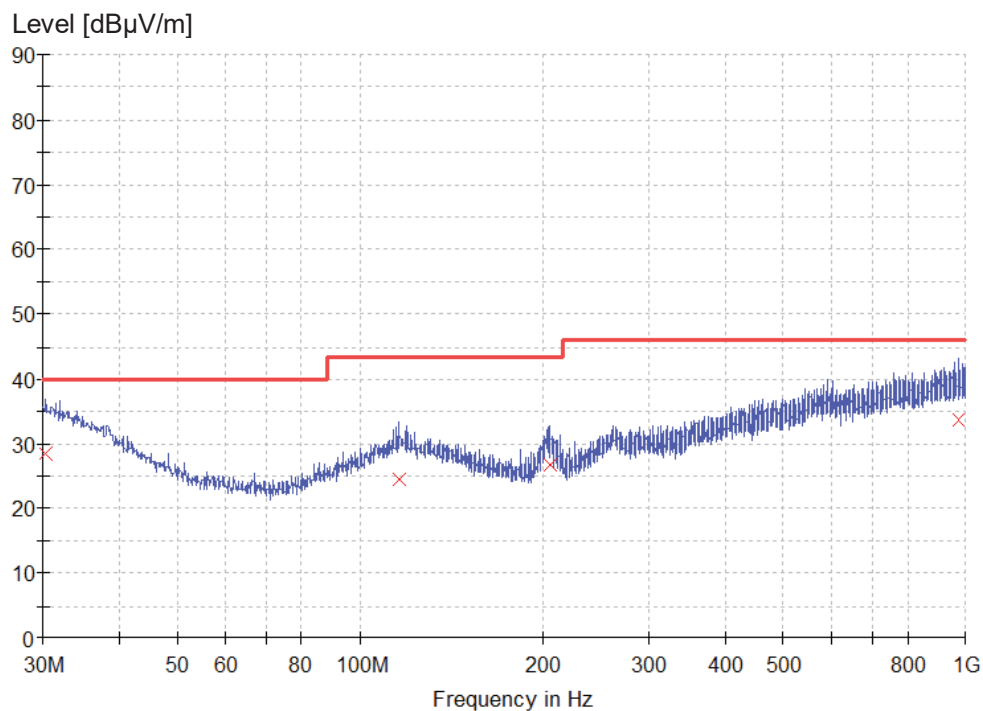
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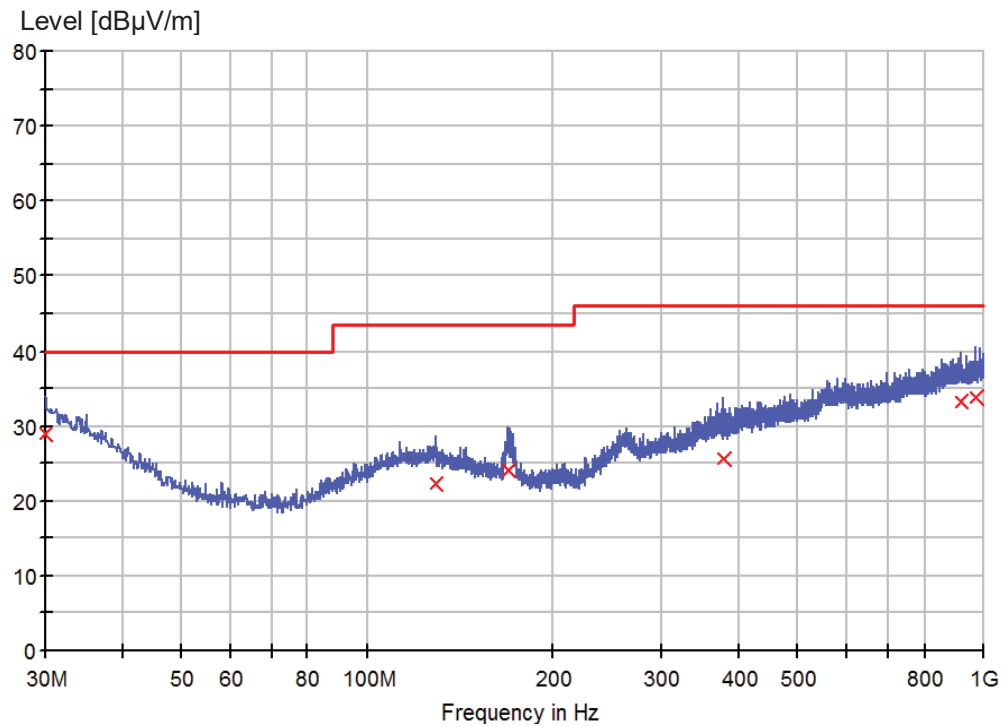
Figure 8: Spectral Diagrams and measurement results, ICES-005:2018, vertical polarization for mode 1



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB μ V/m)
30.242500	28.6	1000.0	120.000	150.0	V	30.0	25.3	11.4	40.0
116.208750	24.4	1000.0	120.000	100.0	V	30.0	19.2	19.1	43.5
205.812500	26.8	1000.0	120.000	100.0	V	0.0	16.7	16.7	43.5
972.840000	33.7	1000.0	120.000	100.0	V	0.0	29.4	12.3	46.0

Figure 9: Spectral Diagrams and measurement results, ICES-005:2018, horizontal polarization for mode 2



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB μ)
30.000000	28.8	1000.0	120.000	100.0	H	0.0	25.4	11.2	40.0
129.182500	22.2	1000.0	120.000	100.0	H	-90.0	18.9	21.3	43.5
169.558750	24.0	1000.0	120.000	150.0	H	-90.0	16.5	19.5	43.5
378.715000	25.6	1000.0	120.000	100.0	H	0.0	22.5	20.4	46.0
915.973750	33.3	1000.0	120.000	150.0	H	90.0	28.8	12.7	46.0
974.537500	33.7	1000.0	120.000	150.0	H	90.0	29.4	12.3	46.0

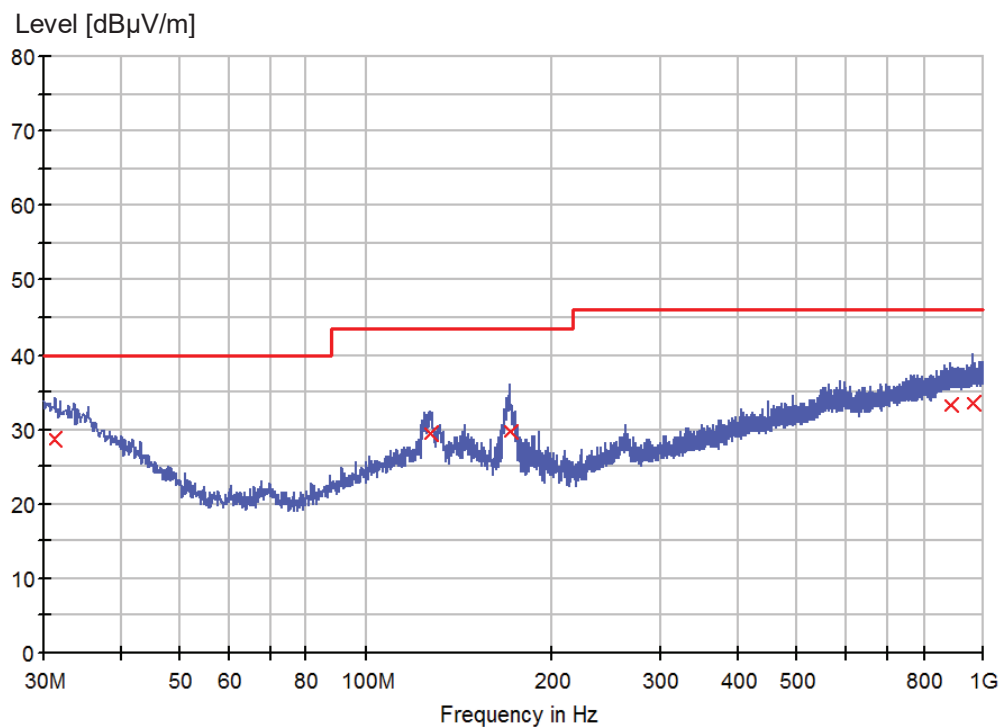
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Figure 10: Spectral Diagrams and measurement results, ICES-005:2018, vertical polarization for mode 2



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB μ
31.333750	28.7	1000.0	120.000	100.0	V	0.0	24.7	11.3	40.0
127.000000	29.5	1000.0	120.000	100.0	V	-90.0	19.0	14.0	43.5
171.741250	29.8	1000.0	120.000	100.0	V	45.0	16.4	13.7	43.5
885.903750	33.2	1000.0	120.000	150.0	V	180.0	28.6	12.8	46.0
964.352500	33.6	1000.0	120.000	150.0	V	180.0	29.3	12.4	46.0

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