

Prüfbericht-Nr.: <i>Test Report No.:</i>	60369664 001	Auftrags-Nr.: <i>Order No.:</i>	244197745	Seite 1 von 44 <i>Page 1 of 44</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	1288983	Auftragsdatum: <i>Order date.:</i>	03.01.2020		
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden				
Prüfgegenstand: <i>Test item:</i>	UNDIKA Baby Monitor				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	E1901B, E1901P				
Auftrags-Inhalt: <i>Order content:</i>	EMC test				
Prüfgrundlage: <i>Test specification:</i>	FCC 47 CFR Part 15, Subpart B:2019 Class B ICES-003:2016				
Wareneingangsdatum: <i>Date of receipt:</i>	06.05.2020	Refer to the sample file			
Prüfmuster-Nr.: <i>Test sample No.:</i>	A002814908-001				
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:			
<i>Jessie Xu</i>		<i>Xuelan Zhang</i>			
18.06.2020	Jessie Xu/Senior project engineer	18.06.2020	Xuelan Zhang/Senior project 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>	Unterschrift <i>Signature</i>
Sonstiges / Other:					
Refer to the clause 2.2 for further information.					
FCC ID of Model E1901B: FHO-E1901B					
FCC ID of Model E1901P: FHO-E1901P					
IC of model E1901B:10912A-E1901B					
IC of model E1901P:10912A-E1901P					
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>					

vo4

TEST SUMMARY

4.1.1 CONDUCTED EMISSION

Result:

Passed

4.2.1 RADIATED EMISSION IN THE FREQUENCY RANGE UP 1 GHz

Result:

Passed

4.2.2 RADIATED EMISSION IN THE FREQUENCY RANGE ABOVE 1 GHz

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.

Refer to Clause 6 for test and measurement instruments.

2 General Product Information

2.1 Product Function and Intended Use

The EUTs (equipment under test) are the ordinary baby monitor for household and similar use. For the further information, refer to the user's manual.

2.2 Ratings and System Details

Model	: E1901B	E1901P
System input	: DC 5 V or 3*AAA batteries	DC 24 V or 3*AAA batteries
Protection class	: III	III

1. The product is a basic baby monitor consisting of one parent unit (E1901P), one baby unit (E1901B) and power supply (Model: ICPSW24-3-3, input: AC 100-240 V, 50/60 Hz, output: DC 24 V MAX. 3W).
2. When the baby unit was charged by the power supply, the parent unit can also be charged by docking into baby unit through Pogo pins. In addition, the parent unit can be independently through the USB-C connector.

2.3 Independent Operation Modess

The basic operation modes are: "ON" and "OFF" etc.

The test modes are following:

Mode 1	:	Baby unit was charged with power supply, and the parent unit docked into baby unit
Mode 2	:	Baby and parent units were charged by power supply respectively, and communicated continuously.
Mode 3	:	Parent unit was charged by a laptop, the baby unit was charged by the power supply, and communicated continuously.
Mode 4.	:	Parent and baby units powered by batteries, and communicated continuously.

2.4 Description of interconnecting cables

No.	Interface and name	Shielded or not	Specified length (m)
1	AC power line	Unshielded	2.0 m

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 2.4 GHz.

2.7 Submitted Documents

Circuit diagrams, user's manual and rating labels.

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.

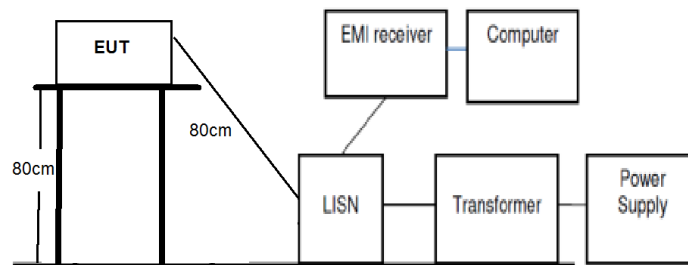
Refer to the related paragraph of this report.

The sequence of testing:

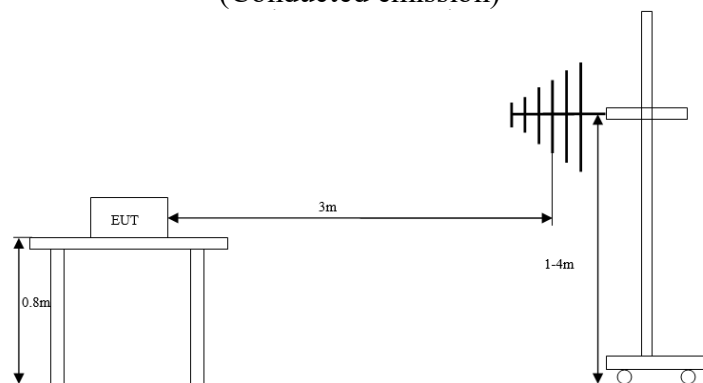
1. Radiated emission tests were performed on 25.07.2020-17.06.2020;
2. Conducted emission tests were performed on 02.06.2020.

3.2 Equipment and cable arrangement

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



(Conducted emission)



(Radiated emission)

Also refer to photographs on clause 5 for test setups for both conducted emission test and radiated emission test.

3.3 Test Software

No special test software was used during the tests.

3.4 Special Accessories and Auxiliary Equipment

During the tests, the computer and power supply was connected to the parent unit by the USB- C port respectively for charging mode.

Auxiliary Equipment	Brand	Model
Laptop	Thinkpad	X40
Power supply	MI	MDY-09-EX input: AC 100-240 V, 50/60 Hz, output: DC 5 V, 2 A

3.5 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 Conducted emission

Result:	Passed
Date of testing	: 02.06.2020
Test procedure	: FCC 47 CFR Part 15, Subpart B:2019, ICES-003:2016, ANSI C63.4-2014 and CISPR 16-1 series standards
Frequency range	: 0.15 – 30 MHz
Limits	: Quasi-peak limit: 0.15 - 0.5 MHz, 66 to 56 dB μ V (decrease with the logarithm of frequency); 0.5 - 5 MHz, 56 dB μ V; 5 - 30 MHz, 60 dB μ V Average limit: 0.15 - 0.5 MHz, 56 to 46 dB μ V (decrease with the logarithm of frequency); 0.5 – 5 MHz, 46 dB μ V; 5 – 30 MHz, 50 dB μ V
Bandwidth of EMI receiver for final measurement	: 9 kHz
Measurement time for final measurement	: 1 s
Kind of test site	: Shielded room
Input voltage	: AC 120 V, 60 Hz for power supply
Operational mode	: Mode 1 and Mode 2 as defined in clause 2.3
Ambient condition	: Temperature: 23.6 °C; Relative humidity: 45.3 %
Expanded measurement uncertainty ($k=2$)	: 3.39 dB

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.

The tested object was set-up on a wooden support. The EUT was set 0.8 m 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 0.3 m and 0.4 m.

The disturbance voltage test was performed on the neutral line and phase line of the power supply of the EUT respectively.

The following figures and tables were those measured by an automatic measuring system. Both quasi-peak and average measurements were performed. In the following spectral diagram, Blue “◆” means Quasi-Peak Value and green “◆” means Average Value results.

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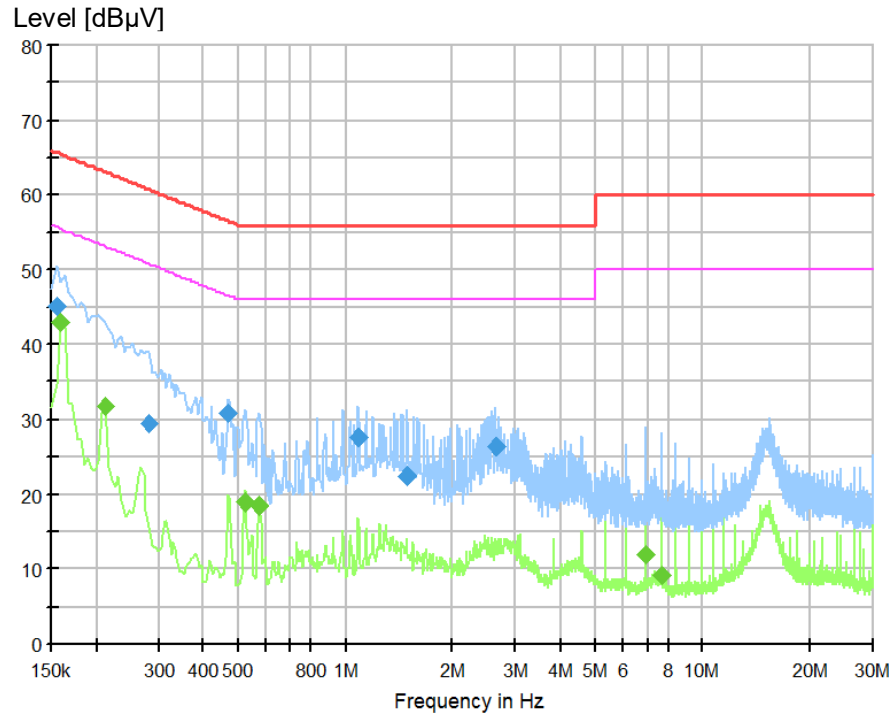
Notes on following tables of conducted emission results and conversions:

Level (dB μ V): final measurement results by using quasi-peak detector and average detector

Transd (dB): transducer factor including cable loss, insertion loss of artificial mains network and gain of pre-amplifier (if used)

Margin: Limit (dB μ V) - Level (dB μ V)

Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L for mode 1



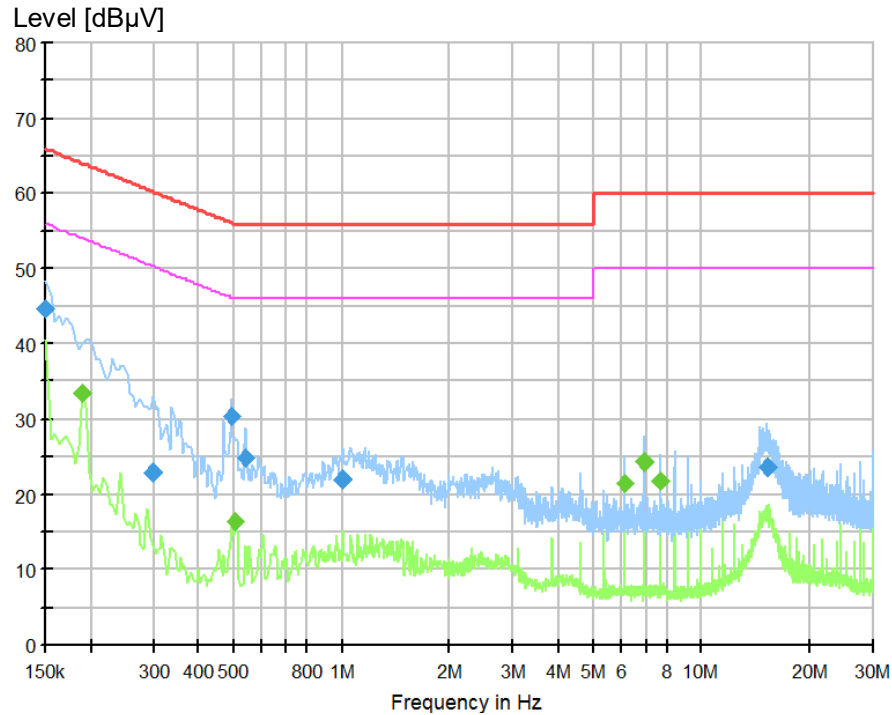
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154500	45.26	65.75	20.50	1000.0	9.000	L1	9.5
0.280500	29.45	60.80	31.35	1000.0	9.000	L1	9.6
0.469500	30.99	56.52	25.53	1000.0	9.000	L1	9.6
1.090500	27.55	56.00	28.45	1000.0	9.000	L1	9.6
1.491000	22.54	56.00	33.46	1000.0	9.000	L1	9.6
2.643000	26.38	56.00	29.62	1000.0	9.000	L1	9.7

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.159000	43.11	55.52	12.41	1000.0	9.000	L1	9.5
0.213000	31.70	53.09	21.38	1000.0	9.000	L1	9.5
0.523500	18.93	46.00	27.07	1000.0	9.000	L1	9.6
0.573000	18.38	46.00	27.62	1000.0	9.000	L1	9.6
6.918000	11.83	50.00	38.17	1000.0	9.000	L1	9.8
7.683000	9.03	50.00	40.97	1000.0	9.000	L1	9.8

Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N for mode 1



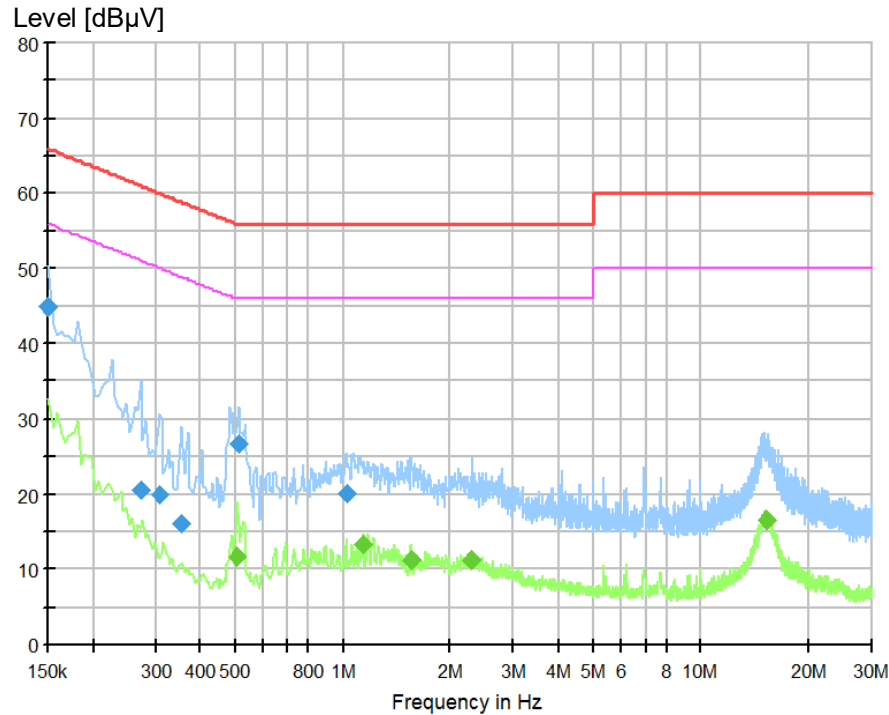
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	44.69	66.00	21.31	1000.0	0.200	N	9.5
0.298500	22.92	60.28	37.36	1000.0	9.000	N	9.5
0.492000	30.30	56.13	25.83	1000.0	9.000	N	9.6
0.541500	24.89	56.00	31.11	1000.0	9.000	N	9.6
1.009500	21.92	56.00	34.08	1000.0	9.000	N	9.6
15.238500	23.54	60.00	36.46	1000.0	9.000	N	9.9

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.190500	33.37	54.02	20.65	1000.0	9.000	N	9.5
0.505500	16.41	46.00	29.59	1000.0	9.000	N	9.6
6.157500	21.60	50.00	28.40	1000.0	9.000	N	9.7
6.927000	24.33	50.00	25.67	1000.0	9.000	N	9.7
7.696500	21.82	50.00	28.18	1000.0	9.000	N	9.7

Figure 3: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L for mode 2 on baby unit



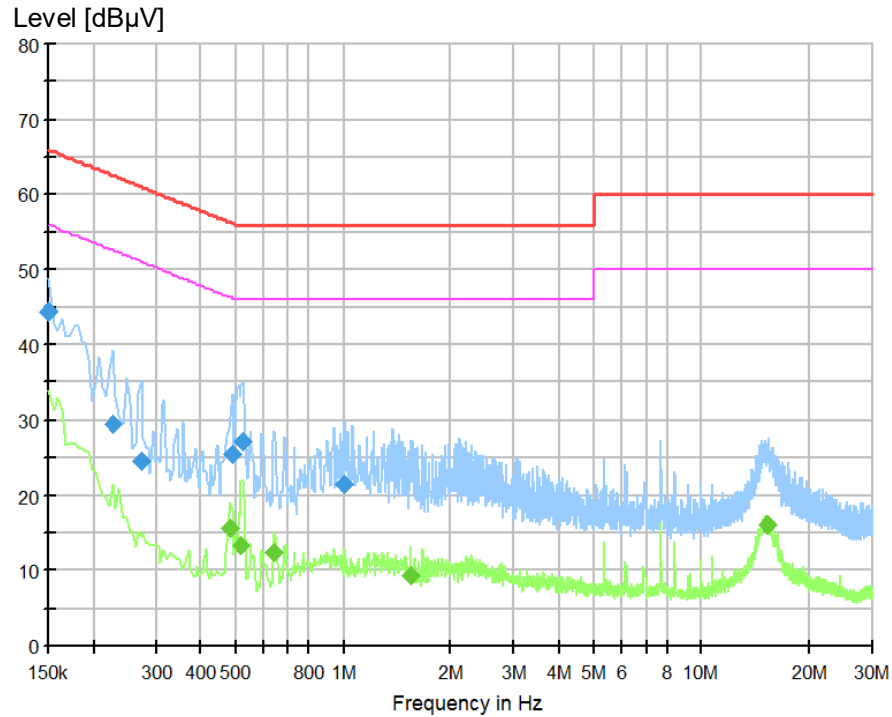
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	44.87	66.00	21.13	1000.0	0.200	L1	9.5
0.271500	20.51	61.07	40.56	1000.0	9.000	L1	9.6
0.307500	19.80	60.04	40.24	1000.0	9.000	L1	9.6
0.352500	16.13	58.90	42.77	1000.0	9.000	L1	9.6
0.510000	26.63	56.00	29.37	1000.0	9.000	L1	9.6
1.023000	20.01	56.00	35.99	1000.0	9.000	L1	9.6

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.505500	11.78	46.00	34.22	1000.0	9.000	L1	9.6
1.140000	13.45	46.00	32.55	1000.0	9.000	L1	9.6
1.558500	11.12	46.00	34.88	1000.0	9.000	L1	9.6
2.283000	11.32	46.00	34.68	1000.0	9.000	L1	9.7
15.207000	16.67	50.00	33.33	1000.0	9.000	L1	10.2

Figure 4: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N for mode 2 on baby unit



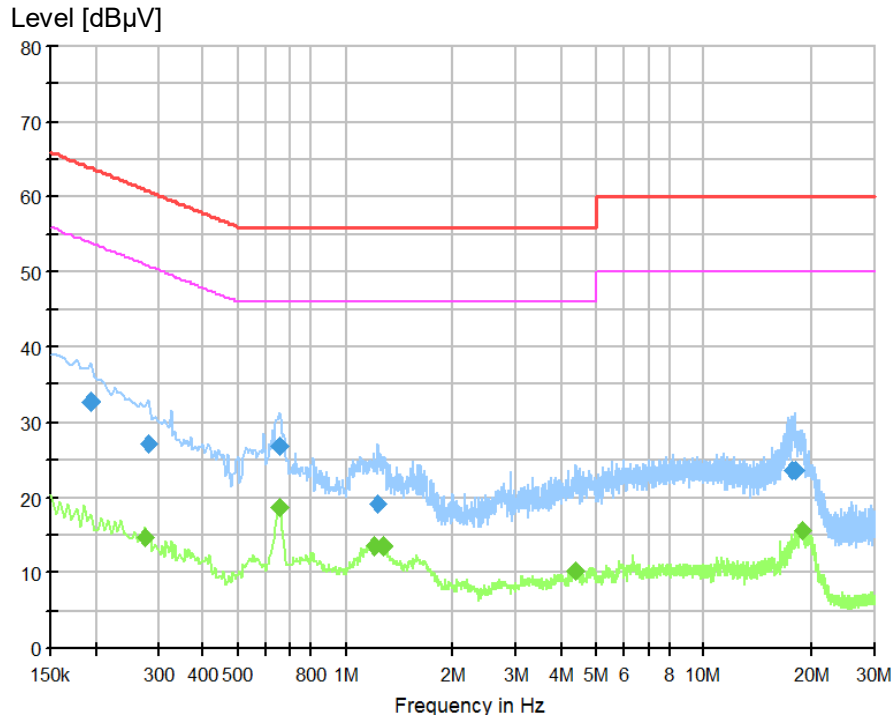
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	44.54	66.00	21.46	1000.0	0.200	N	9.5
0.226500	29.49	62.58	33.08	1000.0	9.000	N	9.5
0.271500	24.49	61.07	36.58	1000.0	9.000	N	9.5
0.487500	25.58	56.21	30.63	1000.0	9.000	N	9.6
0.523500	27.20	56.00	28.80	1000.0	9.000	N	9.6
1.009500	21.56	56.00	34.44	1000.0	9.000	N	9.6

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.483000	15.75	46.29	30.54	1000.0	9.000	N	9.6
0.519000	13.22	46.00	32.78	1000.0	9.000	N	9.6
0.640500	12.43	46.00	33.57	1000.0	9.000	N	9.6
1.536000	9.46	46.00	36.54	1000.0	9.000	N	9.6
15.337500	16.21	50.00	33.79	1000.0	9.000	N	9.9

Figure 5: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L for mode 2 on parent unit



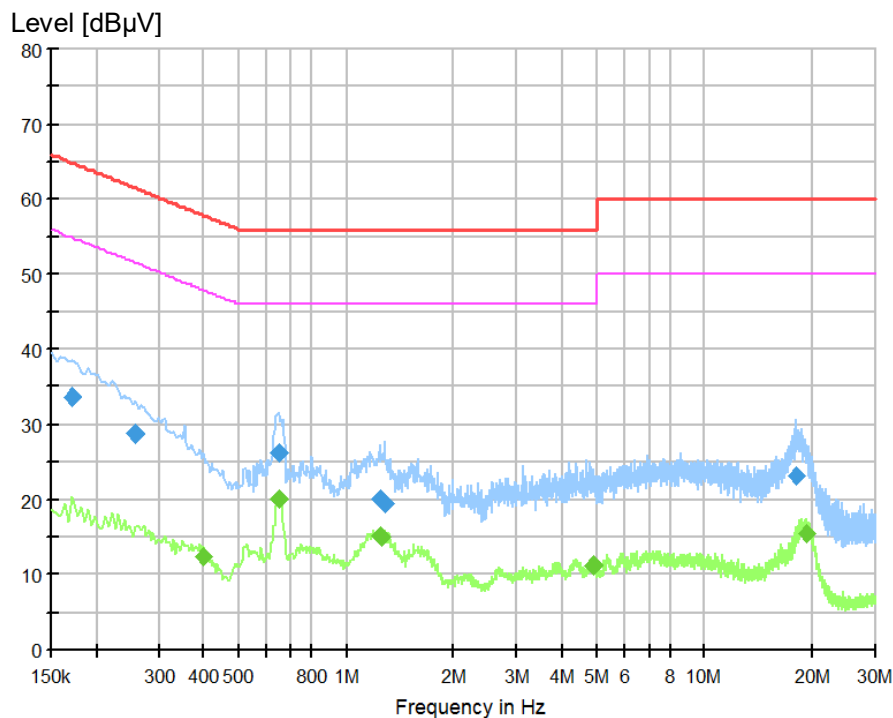
Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.195000	32.67	63.82	31.15	1000.0	9.000	L1	9.5
0.280500	27.23	60.80	33.57	1000.0	9.000	L1	9.6
0.654000	26.89	56.00	29.11	1000.0	9.000	L1	9.6
1.234500	19.16	56.00	36.84	1000.0	9.000	L1	9.6
17.655000	23.60	60.00	36.40	1000.0	9.000	L1	10.2
18.010500	23.73	60.00	36.27	1000.0	9.000	L1	10.2

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.276000	14.63	50.94	36.31	1000.0	9.000	L1	9.6
0.654000	18.72	46.00	27.28	1000.0	9.000	L1	9.6
1.207500	13.46	46.00	32.54	1000.0	9.000	L1	9.6
1.266000	13.49	46.00	32.51	1000.0	9.000	L1	9.6
4.407000	10.28	46.00	35.72	1000.0	9.000	L1	9.7
18.991500	15.57	50.00	34.43	1000.0	9.000	L1	10.2

Figure 6: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N for mode 2 on parent unit



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.172500	33.75	64.84	31.09	1000.0	9.000	N	9.5
0.258000	28.71	61.50	32.78	1000.0	9.000	N	9.5
0.645000	26.11	56.00	29.89	1000.0	9.000	N	9.6
1.239000	20.10	56.00	35.90	1000.0	9.000	N	9.6
1.284000	19.40	56.00	36.60	1000.0	9.000	N	9.6
18.163500	23.22	60.00	36.78	1000.0	9.000	N	10.1

Final Average measurement result:

Frequency (MHz)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.397500	12.44	47.91	35.46	1000.0	9.000	N	9.6
0.645000	20.18	46.00	25.82	1000.0	9.000	N	9.6
1.239000	15.15	46.00	30.85	1000.0	9.000	N	9.6
1.261500	15.03	46.00	30.97	1000.0	9.000	N	9.6
4.884000	11.12	46.00	34.88	1000.0	9.000	N	9.6
19.266000	15.33	50.00	34.67	1000.0	9.000	N	10.1

4.2 Emission in the Frequency Range above 30 MHz

4.2.1 Radiated emission in the frequency range up 1 GHz

Result:	Passed
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Date of testing	: 27.05.2020
Test procedure	: FCC 47 CFR Part 15, Subpart B:2019, ICES-003:2016, ANSI C63.4-2014 and CISPR 16-1 series standards
Frequency range	: 30 – 1000 MHz
Limits	: Quasi-peak limits (3 m distance): 30 – 88 MHz, 40 dB μ V/m; 88 – 216 MHz, 43.5 dB μ V/m; 216 – 960 MHz, 46 dB μ V/m; Above 960 MHz, 54 dB μ V/m.
Bandwidth of EMI receiver for final measurement	: 120 kHz
Measurement time for final measurement	: 1 s
Kind of test site	: Semi-anechoic chamber
Operational mode	: Mode 1, Mode 2, Mode 3 and Mode 4 as defined in clause 2.3
Ambient condition	: Temperature: 22.0 °C; Relative humidity: 38.5 %
Expanded measurement uncertainty ($k=2$)	: 5.49 dB

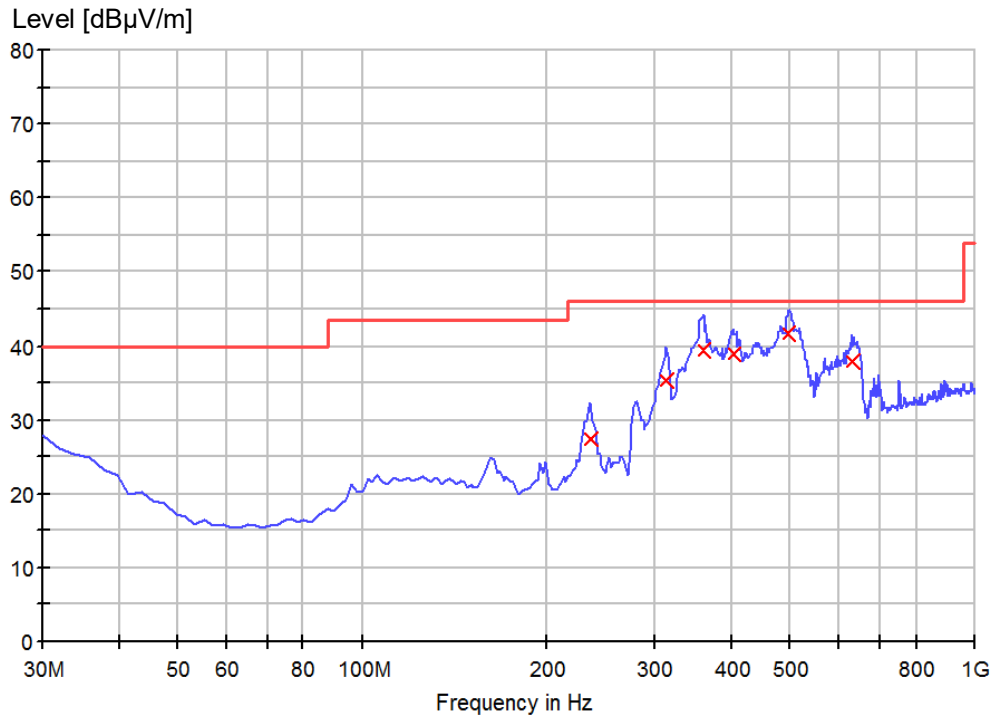
The radiated disturbance test was carried out in a semi-anechoic chamber. The test distance from the receiving antenna to the EUT is 3 m. The normalized site attenuation of the semi-anechoic chamber is regularly calibrated to ensure the radiated disturbance test results are valid. During the test, the EUT was placed on a 0.8 m high wooden table above the reference ground plane. The wooden table was rotated 360° around and the height of the antenna was varied from 1 m to 4 m 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 an automatic measurement system. 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 spectral diagram, “×” means quasi-peak test results.

Notes on following tables of radiated emission results and conversions:

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

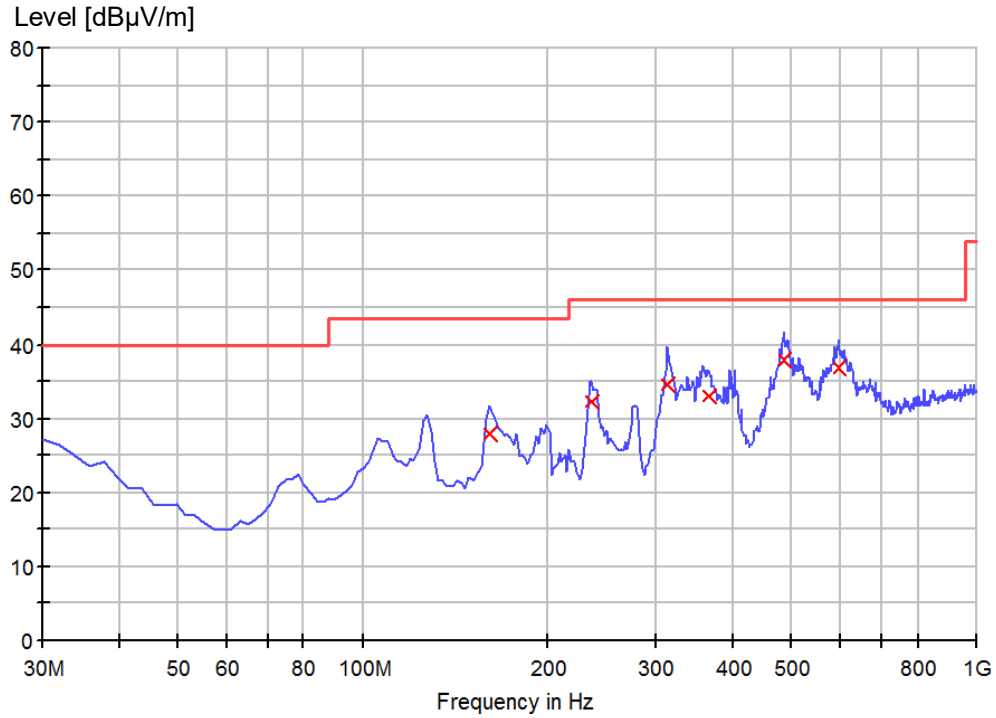
Figure 7: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for mode 1



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
236.052104	27.3	1000.0	120.000	144.0	H	12.0	17.6	18.7	46.0
311.863727	35.3	1000.0	120.000	163.0	H	0.0	20.3	10.7	46.0
360.460922	39.4	1000.0	120.000	150.0	H	60.0	21.7	6.6	46.0
403.226453	38.8	1000.0	120.000	200.0	H	12.0	22.7	7.2	46.0
496.533066	41.6	1000.0	120.000	180.0	H	180.0	24.9	4.4	46.0
630.661323	37.7	1000.0	120.000	150.0	H	156.0	26.4	8.3	46.0

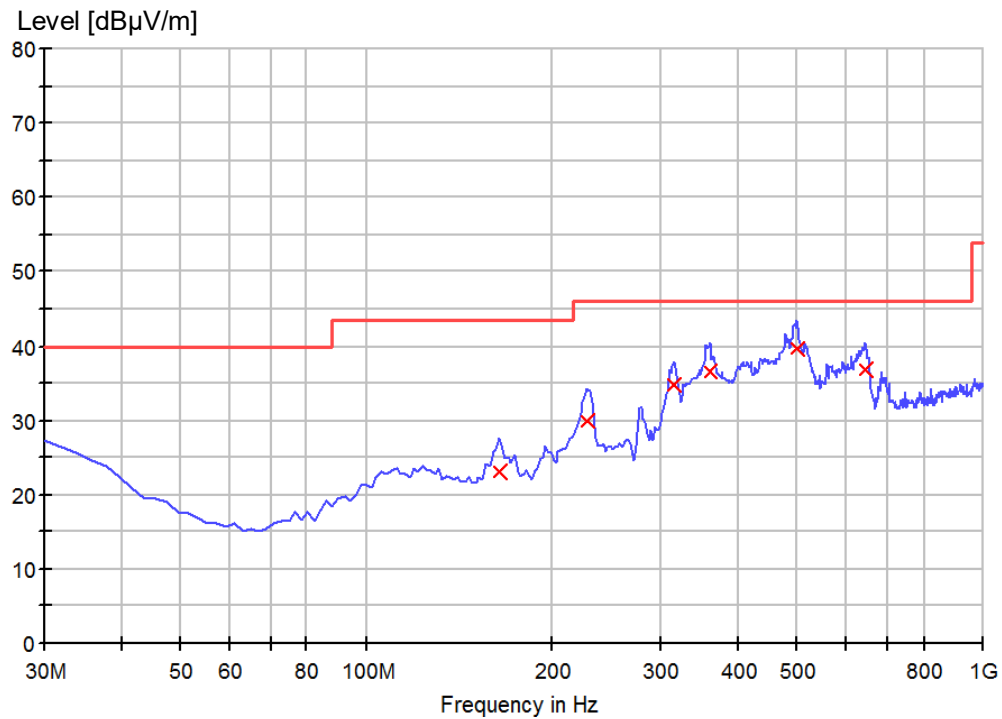
Figure 8: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for mode 1



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
160.240481	27.8	1000.0	120.000	100.0	V	12.0	16.6	15.7	43.5
236.052104	32.1	1000.0	120.000	100.0	V	30.0	17.6	13.9	46.0
313.807615	34.4	1000.0	120.000	100.0	V	120.0	20.4	11.6	46.0
366.292585	32.9	1000.0	120.000	109.0	V	132.0	21.8	13.1	46.0
484.869739	37.9	1000.0	120.000	102.0	V	99.0	24.8	8.1	46.0
595.671343	36.9	1000.0	120.000	110.0	V	20.0	26.2	9.1	46.0

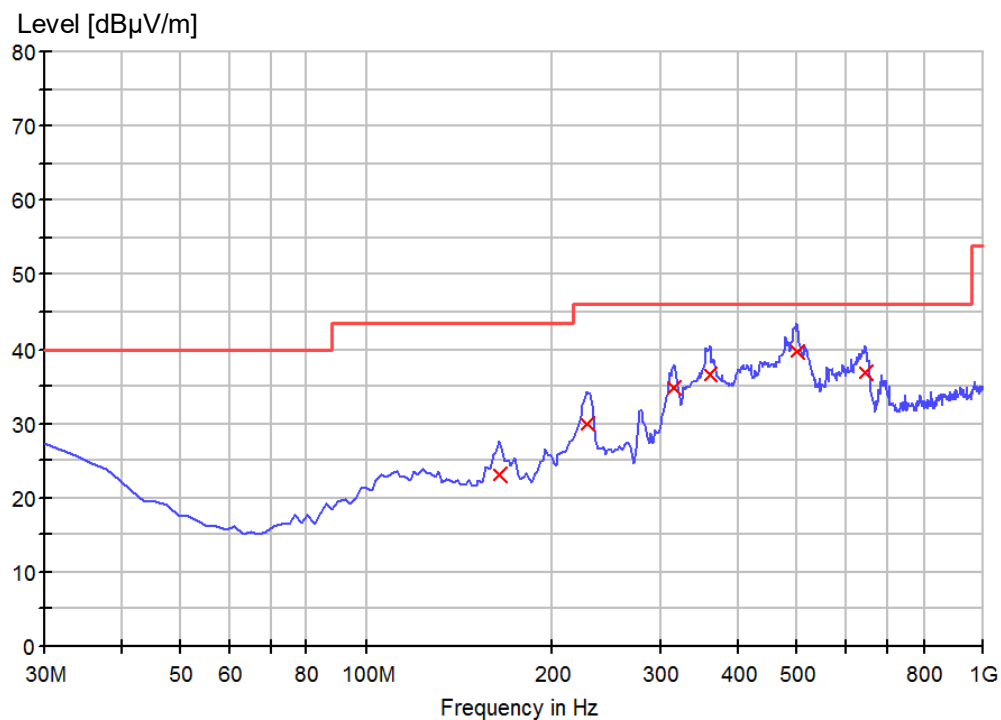
Figure 9: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for mode 2



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
164.128257	23.1	1000.0	120.000	123.0	H	12.0	16.6	20.4	43.5
228.276553	29.8	1000.0	120.000	150.0	H	0.0	16.7	16.2	46.0
315.751503	34.8	1000.0	120.000	136.0	H	30.0	20.5	11.2	46.0
360.460922	36.5	1000.0	120.000	160.0	H	100.0	21.7	9.5	46.0
500.420842	39.6	1000.0	120.000	180.0	H	12.0	25.0	6.4	46.0
646.212425	36.7	1000.0	120.000	150.0	H	136.0	26.3	9.3	46.0

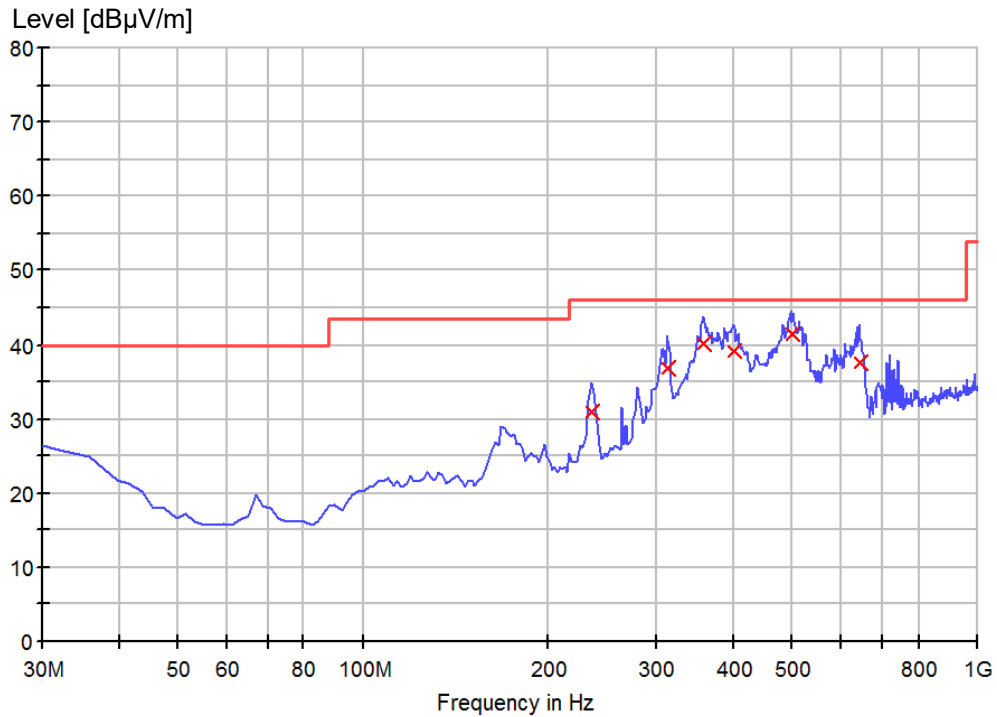
Figure 10: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for mode 2



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
123.306613	28.3	1000.0	120.000	100.0	V	12.0	18.7	15.2	43.5
199.118236	29.2	1000.0	120.000	100.0	V	3.0	16.2	14.3	43.5
224.388778	29.1	1000.0	120.000	100.0	V	100.0	16.4	16.9	46.0
276.873747	29.1	1000.0	120.000	102.0	V	45.0	19.5	16.9	46.0
484.869739	36.1	1000.0	120.000	110.0	V	136.0	24.8	9.9	46.0
611.222445	34.8	1000.0	120.000	105.0	V	90.0	26.2	11.2	46.0

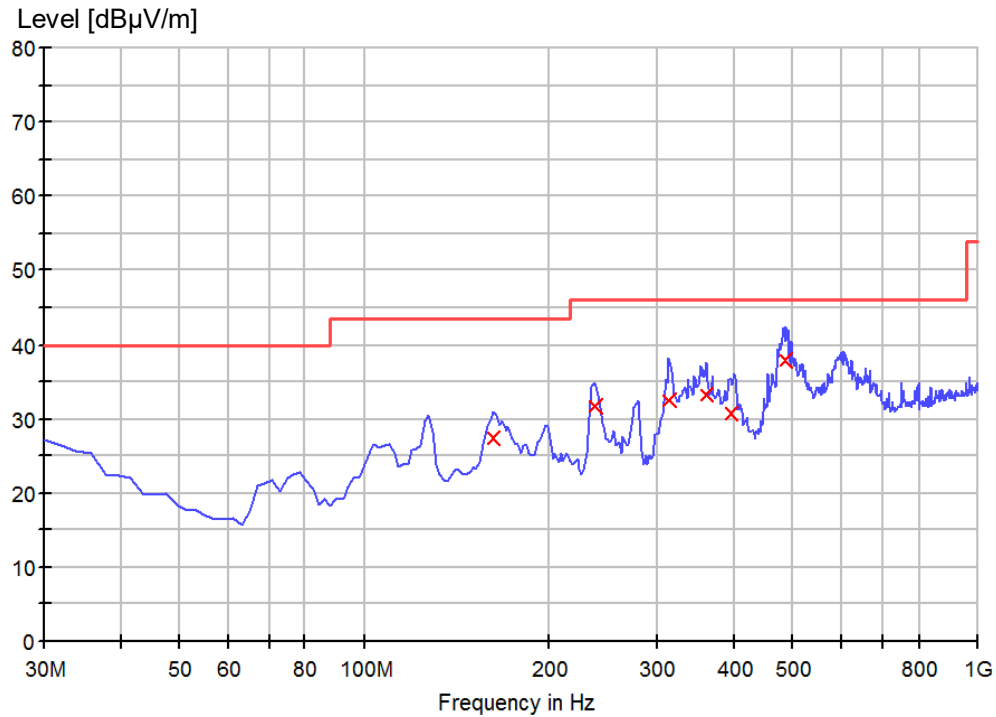
Figure 11: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for mode 3



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
236.052104	30.9	1000.0	120.000	135.0	H	13.0	17.6	15.1	46.0
311.863727	36.9	1000.0	120.000	150.0	H	55.0	20.3	9.1	46.0
358.517034	40.2	1000.0	120.000	150.0	H	30.0	21.7	5.8	46.0
401.282565	39.2	1000.0	120.000	139.0	H	136.0	22.7	6.8	46.0
498.476954	41.3	1000.0	120.000	200.0	H	90.0	25.0	4.7	46.0
642.324649	37.6	1000.0	120.000	220.0	H	58.0	26.4	8.4	46.0

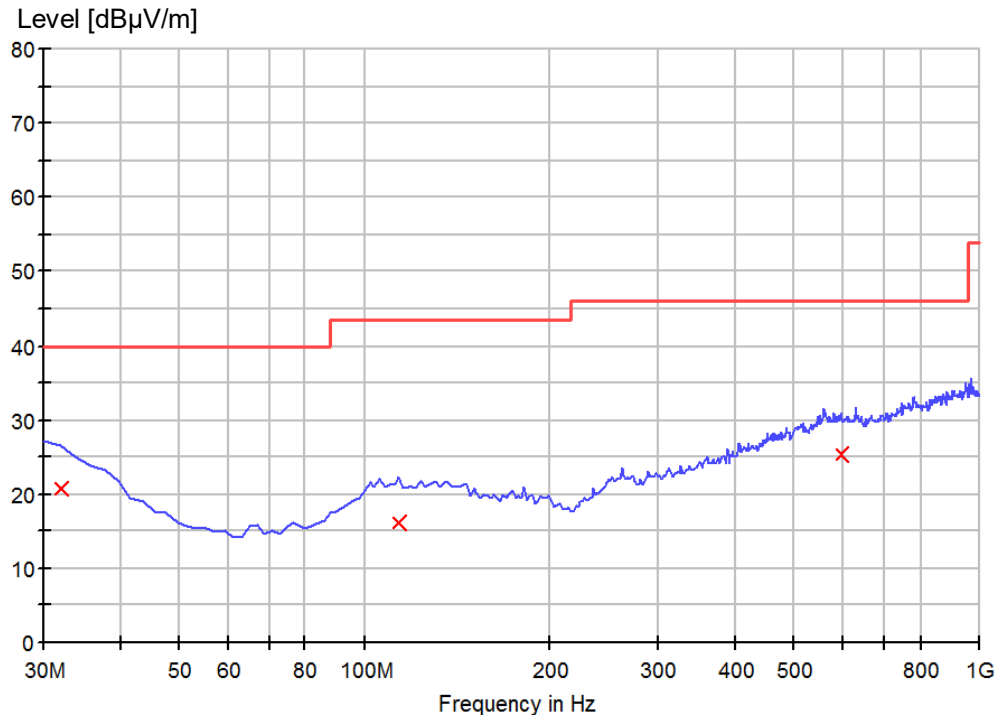
Figure 12: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for mode 3



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
162.184369	27.3	1000.0	120.000	100.0	V	150.0	16.7	16.2	43.5
237.995992	31.6	1000.0	120.000	100.0	V	13.0	17.9	14.4	46.0
313.807615	32.5	1000.0	120.000	100.0	V	96.0	20.4	13.5	46.0
360.460922	33.2	1000.0	120.000	110.0	V	48.0	21.7	12.8	46.0
395.450902	30.7	1000.0	120.000	105.0	V	100.0	22.3	15.3	46.0
486.813627	37.8	1000.0	120.000	109.0	V	120.0	24.8	8.2	46.0

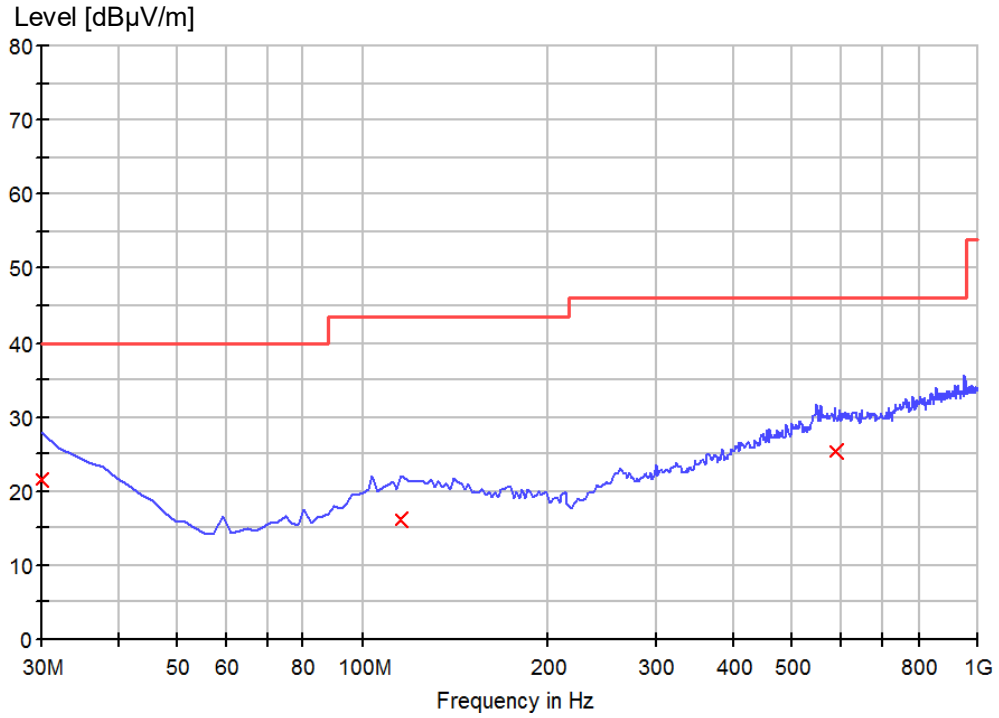
Figure 13: Spectral Diagrams and measurement results, horizontal polarization (30 MHz to 1 GHz) for mode 4



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.943888	20.6	1000.0	120.000	100.0	H	123.0	24.5	19.4	40.0
113.587174	16.2	1000.0	120.000	105.0	H	25.0	18.6	27.3	43.5
595.671343	25.4	1000.0	120.000	120.0	H	99.0	26.2	20.6	46.0

Figure 14: Spectral Diagrams and measurement results, vertical polarization (30 MHz to 1 GHz) for mode 4



Final Quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.000000	21.4	1000.0	120.000	100.0	V	23.0	25.4	18.6	40.0
115.531062	16.2	1000.0	120.000	100.0	V	0.0	18.6	27.3	43.5
587.895792	25.4	1000.0	120.000	100.0	V	0.0	26.2	20.6	46.0

4.2.2 Radiated Emission in the frequency range above 1 GHz

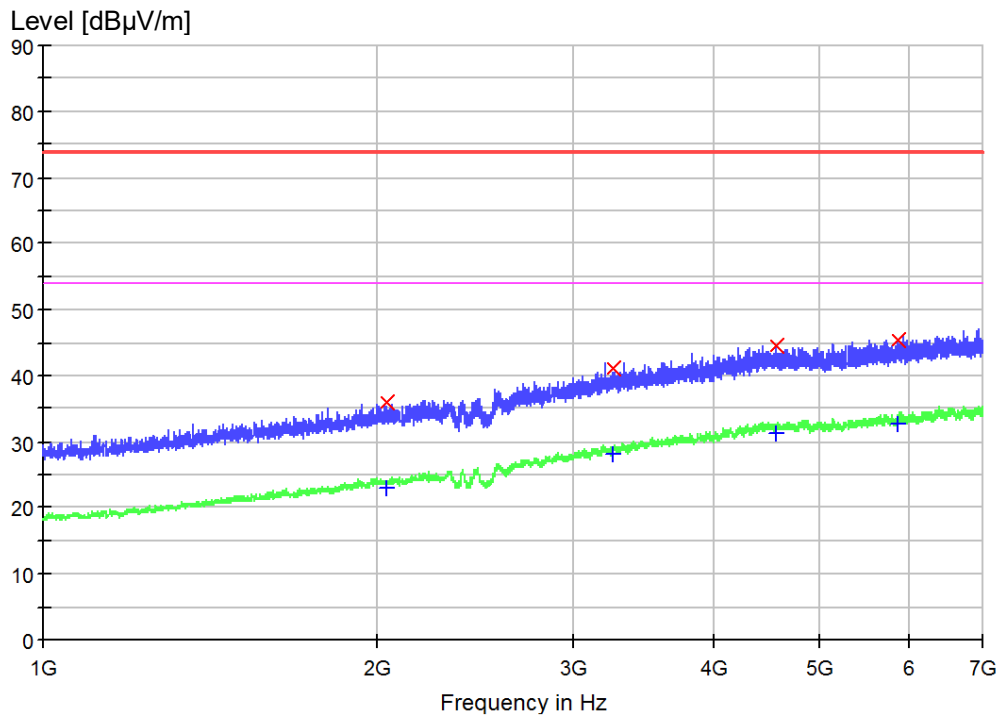
Result:	Passed
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Date of testing	: 17.06.2020
Port	: Enclosure
Test procedure	: FCC 47 CFR Part 15, Subpart B:2019, ICES-003:2016, ANSI C63.4-2014 and CISPR 16-1 series standards
Product classification	: Class B
Limit	: MaxPeak limits (3 m distance): 1-12.5 GHz, 74 dB μ V/m CAverage limits (3 m distance): 1-12.5 GHz, 54 dB μ V/m
Frequency range	: 1 GHz-12.5 GHz (Note: The highest frequency in the EUT is 2400 MHz. According to FCC Part 15 subpart B §15.33 (b) (1), the upper frequency for radiated emission measurement is 12.5 GHz.
Kind of test site	: Fully anechoic chamber
Test distance	: 3 m
Operational mode	: Mode 1, Mode 2, Mode 3 and Mode 4 as defined in clause 2.3
Earthing	: No earthing
Ambient condition	: Temperature: 21.3 °C; Relative humidity: 37.2 %
Expanded measurement uncertainty ($k=2$)	: 5.17 dB (1 GHz~6 GHz) 5.12 dB (6 GHz~18 GHz)

The radiated disturbance test was carried out in a fully anechoic room. The test distance from the receiving antenna to the EUT is 3 m. The normalized site attenuation of the fully-anechoic chamber is regularly calibrated to ensure the radiated disturbance test results are valid. During the test, the EUT was placed on a wooden support, which is 80 cm high. And the wooden support was rotated 360° around. The test was performed with the antenna both in its horizontal and vertical polarizations.

The following figures and tables were those measured by an automatic measurement system. The final test was performed with peak detector and average detector at those critical frequencies during the preview test. In the following figure, “× (red)” means measurement results with peak detector and “+ (blue)” means measurement results with average detector.

Figure 15: Spectral Diagrams and measurement results, 1 GHz-7 GHz, horizontal polarization for mode 1



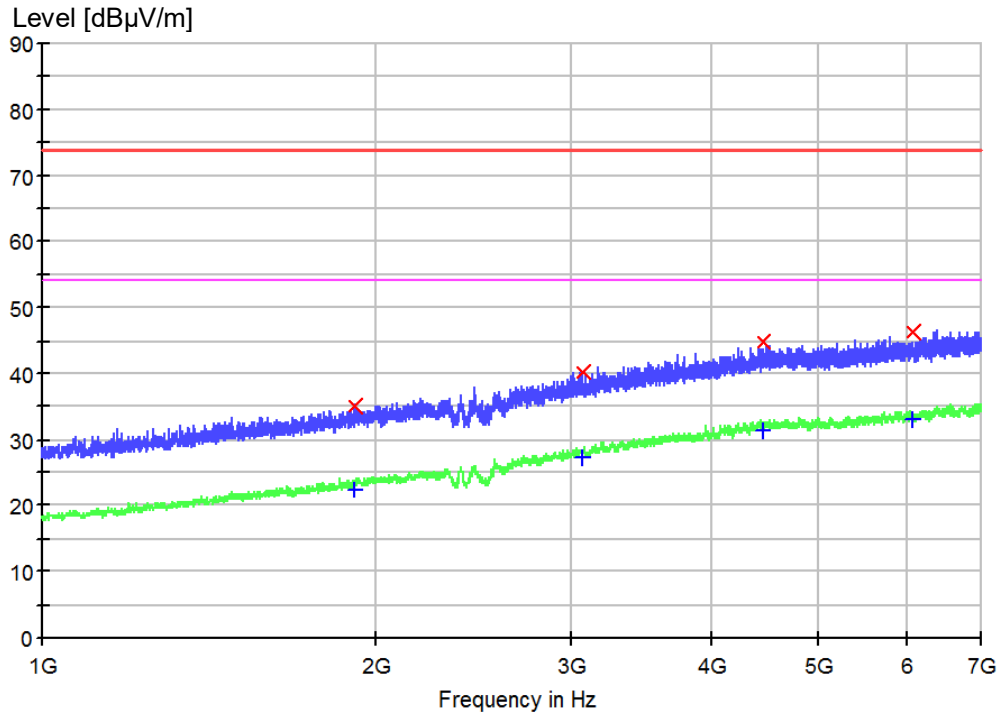
Final maxpeak measurement result:

Frequency (MHz)	MaxPeak (dB µ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dB µ V/m)
2040.500000	36.0	1000.0	1000.000	110.0	H	56.0	-16.1	38.0	74.0
3253.500000	41.1	1000.0	1000.000	120.0	H	63.0	-10.5	32.9	74.0
4562.500000	44.4	1000.0	1000.000	102.0	H	53.0	-6.5	29.6	74.0
5862.000000	45.6	1000.0	1000.000	110.0	H	89.0	-5.7	28.4	74.0

Final average measurement result:

Frequency (MHz)	Average (dB µ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dB µ V/m)
2040.500000	23.1	1000.0	1000.000	100.0	H	-13.0	-16.1	30.9	54.0
3253.500000	28.2	1000.0	1000.000	100.0	H	-13.0	-10.5	25.8	54.0
4562.500000	31.3	1000.0	1000.000	100.0	H	-13.0	-6.5	22.7	54.0
5862.000000	32.8	1000.0	1000.000	100.0	H	-13.0	-5.7	21.2	54.0

Figure 16: Spectral Diagrams and measurement results, 1 GHz-7 GHz, vertical polarization for mode 1



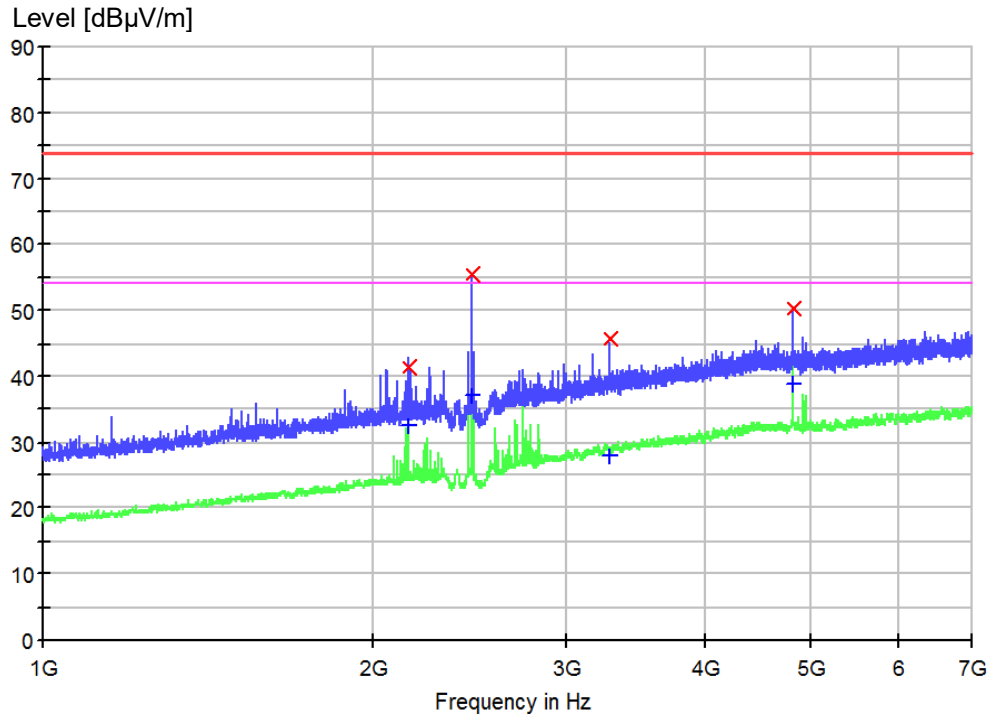
Final maxpeak measurement result:

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1916.500000	35.0	1000.0	1000.000	100.0	V	125.0	-16.7	39.0	74.0
3065.000000	40.3	1000.0	1000.000	100.0	V	45.0	-11.4	33.7	74.0
4460.500000	44.9	1000.0	1000.000	102.0	V	47.0	-6.5	29.1	74.0
6071.500000	46.2	1000.0	1000.000	112.0	V	55.0	-5.8	27.8	74.0

Final average measurement result:

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1916.500000	22.5	1000.0	1000.000	100.0	V	125.0	-16.7	31.5	54.0
3065.000000	27.3	1000.0	1000.000	100.0	V	45.0	-11.4	26.7	54.0
4460.500000	31.4	1000.0	1000.000	102.0	V	47.0	-6.5	22.6	54.0
6071.500000	33.0	1000.0	1000.000	112.0	V	55.0	-5.8	21.0	54.0

Figure 17: Spectral Diagrams and measurement results, 1 GHz-7 GHz, horizontal polarization for mode 2



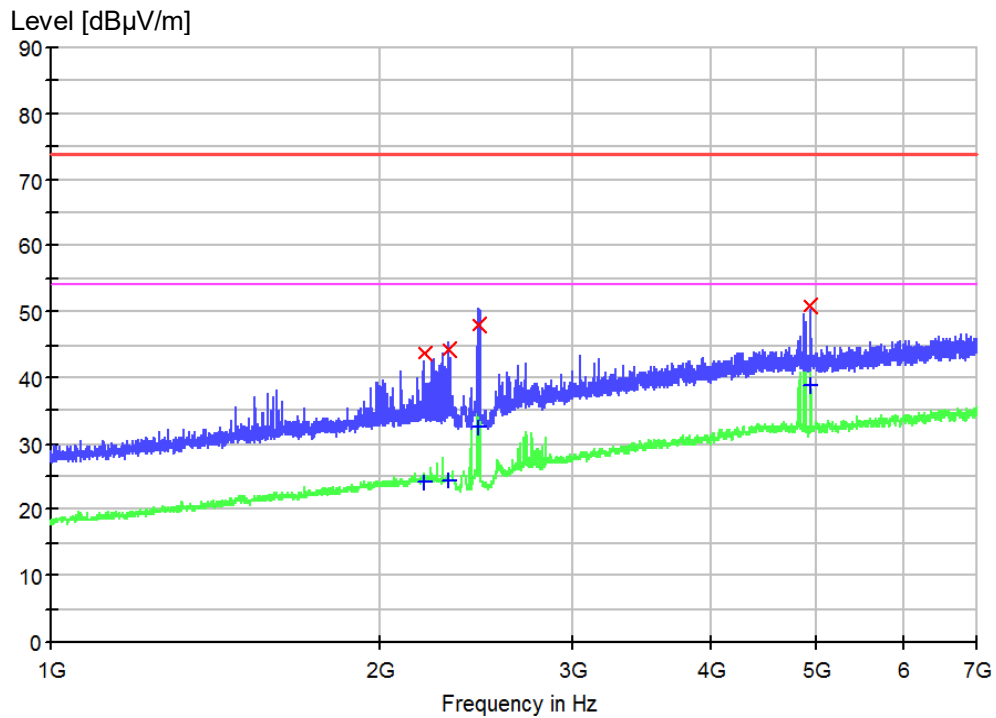
Final maxpeak measurement result:

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2155.000000	41.3	1000.0	1000.000	126.0	H	145.0	-15.6	32.7	74.0
2459.500000	55.5	1000.0	1000.000	109.0	H	25.0	-14.3	18.5	74.0
3277.000000	45.8	1000.0	1000.000	150.0	H	36.0	-10.4	28.2	74.0
4824.000000	50.2	1000.0	1000.000	142.0	H	99.0	-6.5	23.8	74.0

Final average measurement result:

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2155.000000	32.6	1000.0	1000.000	126.0	H	145.0	-15.6	21.4	54.0
2459.500000	37.0	1000.0	1000.000	109.0	H	25.0	-14.3	17.0	54.0
3277.000000	28.0	1000.0	1000.000	150.0	H	36.0	-10.4	26.0	54.0
4824.000000	38.9	1000.0	1000.000	142.0	H	99.0	-6.5	15.1	54.0

Figure 18: Spectral Diagrams and measurement results, 1 GHz-7 GHz, vertical polarization for mode 2



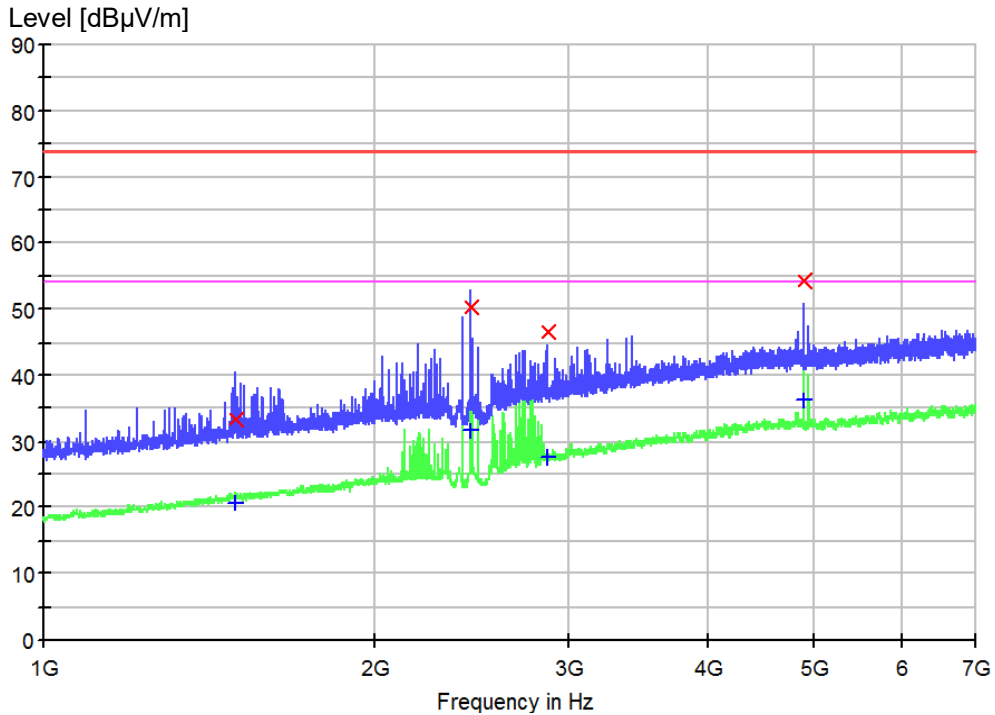
Final maxpeak measurement result:

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2192.000000	43.6	1000.0	1000.000	102.0	V	13.0	-15.4	30.4	74.0
2307.500000	44.3	1000.0	1000.000	110.0	V	22.0	-15.0	29.7	74.0
2459.000000	48.1	1000.0	1000.000	100.0	V	145.0	-14.3	25.9	74.0
4930.000000	51.0	1000.0	1000.000	100.0	V	59.0	-6.6	23.0	74.0

Final average measurement result:

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2192.000000	24.0	1000.0	1000.000	102.0	V	13.0	-15.4	30.0	54.0
2307.500000	24.4	1000.0	1000.000	110.0	V	22.0	-15.0	29.6	54.0
2459.000000	32.4	1000.0	1000.000	100.0	V	145.0	-14.3	21.6	54.0
4930.000000	38.9	1000.0	1000.000	100.0	V	59.0	-6.6	15.1	54.0

Figure 19: Spectral Diagrams and measurement results, 1 GHz-7 GHz, horizontal polarization for mode 3



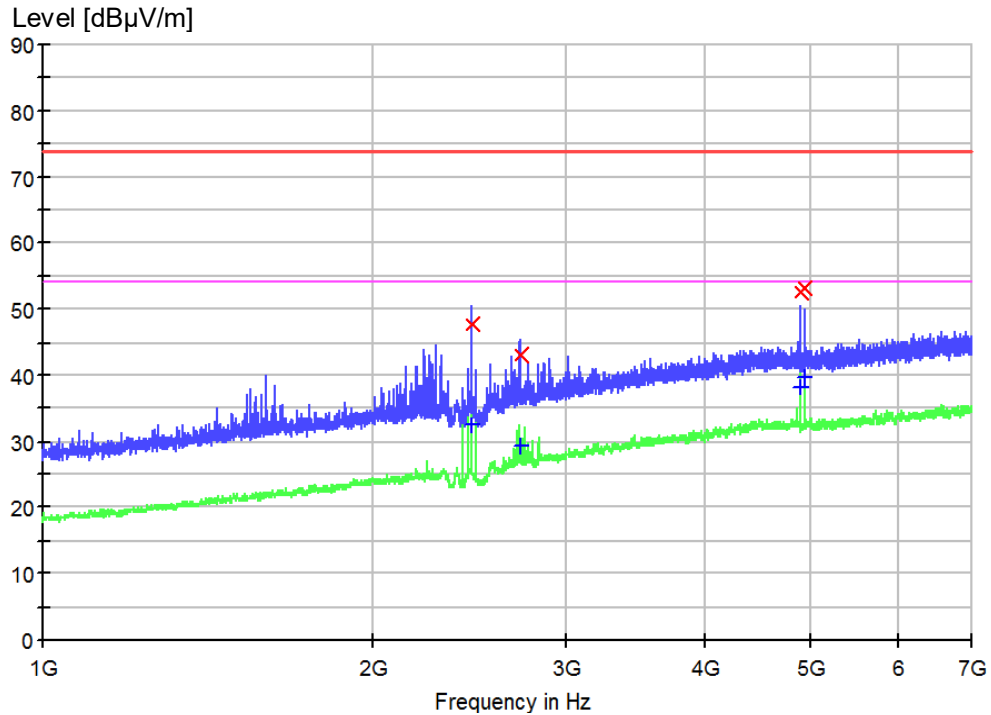
Final maxpeak measurement result:

Frequency (MHz)	MaxPeak (dB µ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dB µ)
1495.000000	33.5	1000.0	1000.000	100.0	H	10.0	-18.9	40.5	74.0
2438.000000	50.2	1000.0	1000.000	100.0	H	48.0	-14.3	23.8	74.0
2871.000000	46.5	1000.0	1000.000	105.0	H	56.0	-12.4	27.5	74.0
4889.000000	54.5	1000.0	1000.000	110.0	H	40.0	-6.6	19.5	74.0

Final average measurement result:

Frequency (MHz)	Average (dB µ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dB µ)
1495.000000	20.8	1000.0	1000.000	100.0	H	0.0	-18.9	33.2	54.0
2438.000000	31.5	1000.0	1000.000	100.0	H	0.0	-14.3	22.5	54.0
2871.000000	27.6	1000.0	1000.000	100.0	H	0.0	-12.4	26.4	54.0
4889.000000	36.3	1000.0	1000.000	100.0	H	0.0	-6.6	17.7	54.0

Figure 20: Spectral Diagrams and measurement results, 1 GHz-7 GHz, vertical polarization for mode 3



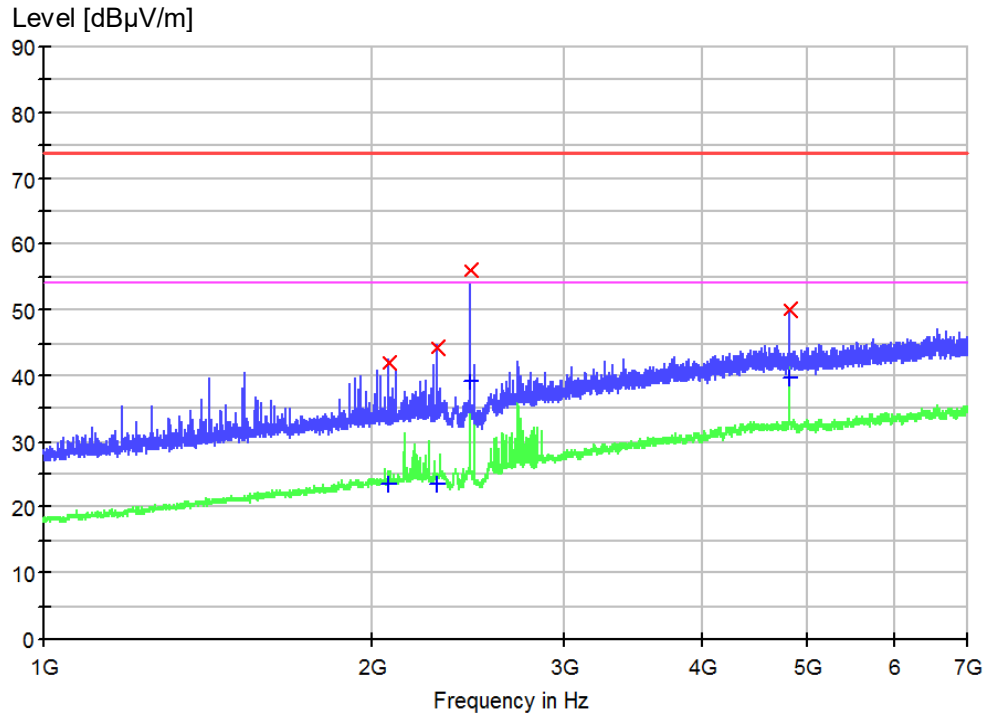
Final maxpeak measurement result:

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2459.000000	47.7	1000.0	1000.000	102.0	V	15.0	-14.3	26.3	74.0
2726.000000	43.2	1000.0	1000.000	133.0	V	45.0	-13.0	30.8	74.0
4889.000000	52.7	1000.0	1000.000	105.0	V	45.0	-6.6	21.3	74.0
4942.500000	53.2	1000.0	1000.000	105.0	V	43.0	-6.6	20.8	74.0

Final average measurement result:

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2459.000000	32.4	1000.0	1000.000	102.0	V	15.0	-14.3	21.6	54.0
2726.000000	29.4	1000.0	1000.000	133.0	V	45.0	-13.0	24.6	54.0
4889.000000	38.3	1000.0	1000.000	105.0	V	45.0	-6.6	15.7	54.0
4942.500000	39.6	1000.0	1000.000	105.0	V	43.0	-6.6	14.4	54.0

Figure 21: Spectral Diagrams and measurement results, 1 GHz-7 GHz, horizontal polarization for mode 4



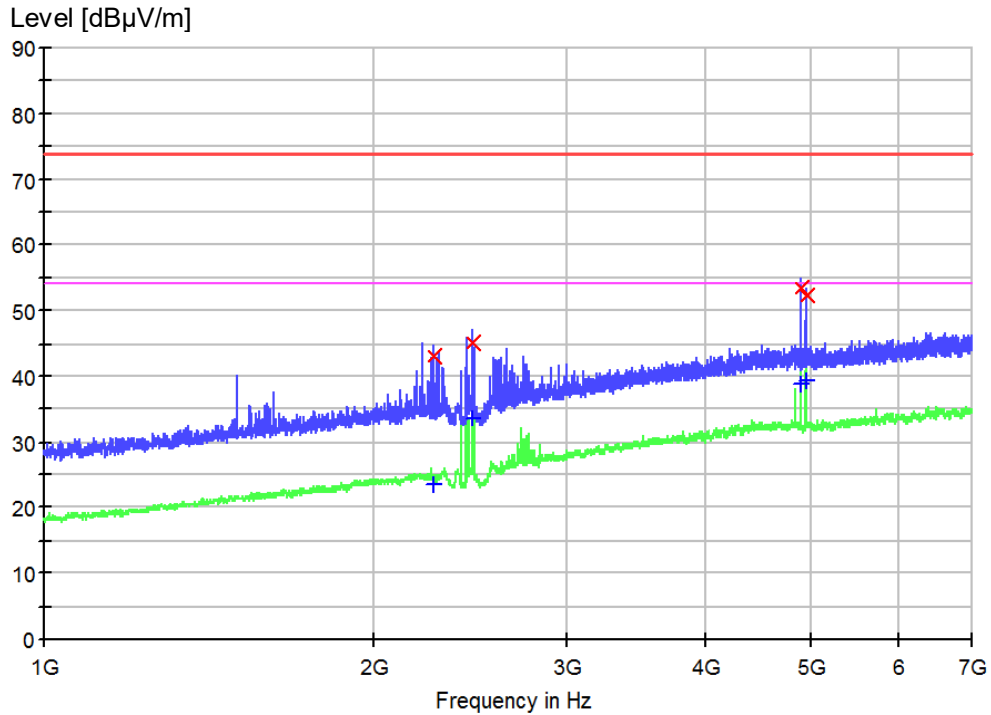
Final maxpeak measurement result:

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2066.000000	42.1	1000.0	1000.000	125.0	H	125.0	-16.0	31.9	74.0
2294.000000	44.3	1000.0	1000.000	145.0	H	25.0	-15.0	29.7	74.0
2459.000000	55.9	1000.0	1000.000	125.0	H	14.0	-14.3	18.1	74.0
4822.500000	50.1	1000.0	1000.000	150.0	H	85.0	-6.5	23.9	74.0

Final average measurement result:

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2066.000000	23.4	1000.0	1000.000	125.0	H	125.0	-16.0	30.6	54.0
2294.000000	23.6	1000.0	1000.000	145.0	H	25.0	-15.0	30.4	54.0
2459.000000	39.2	1000.0	1000.000	125.0	H	14.0	-14.3	14.8	54.0
4822.500000	39.6	1000.0	1000.000	150.0	H	85.0	-6.5	14.4	54.0

Figure 22: Spectral Diagrams and measurement results, 1 GHz-7 GHz, vertical polarization for mode 4



Final maxpeak measurement result:

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2269.000000	43.2	1000.0	1000.000	100.0	V	45.0	-15.1	30.8	74.0
2458.500000	45.2	1000.0	1000.000	102.0	V	12.0	-14.3	28.8	74.0
4902.500000	53.6	1000.0	1000.000	110.0	V	69.0	-6.6	20.4	74.0
4956.000000	52.4	1000.0	1000.000	106.0	V	100.0	-6.6	21.6	74.0

Final average measurement result:

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2269.000000	23.6	1000.0	1000.000	100.0	V	45.0	-15.1	30.4	54.0
2458.500000	33.6	1000.0	1000.000	102.0	V	12.0	-14.3	20.4	54.0
4902.500000	38.9	1000.0	1000.000	110.0	V	69.0	-6.6	15.1	54.0
4956.000000	39.4	1000.0	1000.000	106.0	V	100.0	-6.6	14.6	54.0

Figure 23: Spectral Diagrams and measurement results, 7 GHz-12.5 GHz, horizontal polarization for mode 1

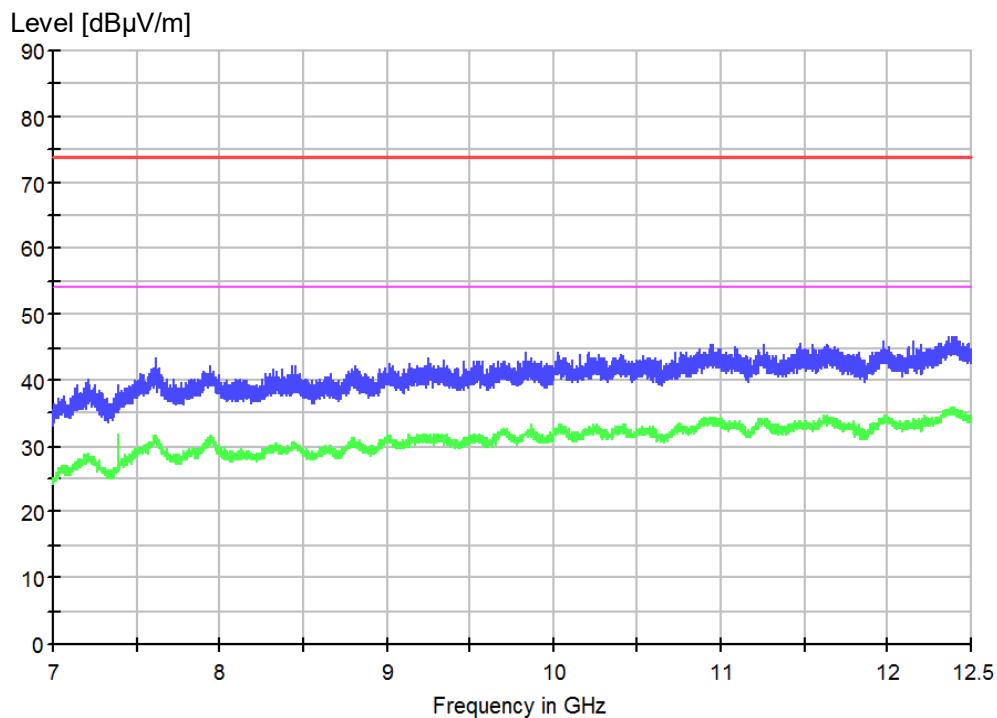


Figure 24: Spectral Diagrams and measurement results, 7 GHz-12.5 GHz, vertical polarization for mode 1

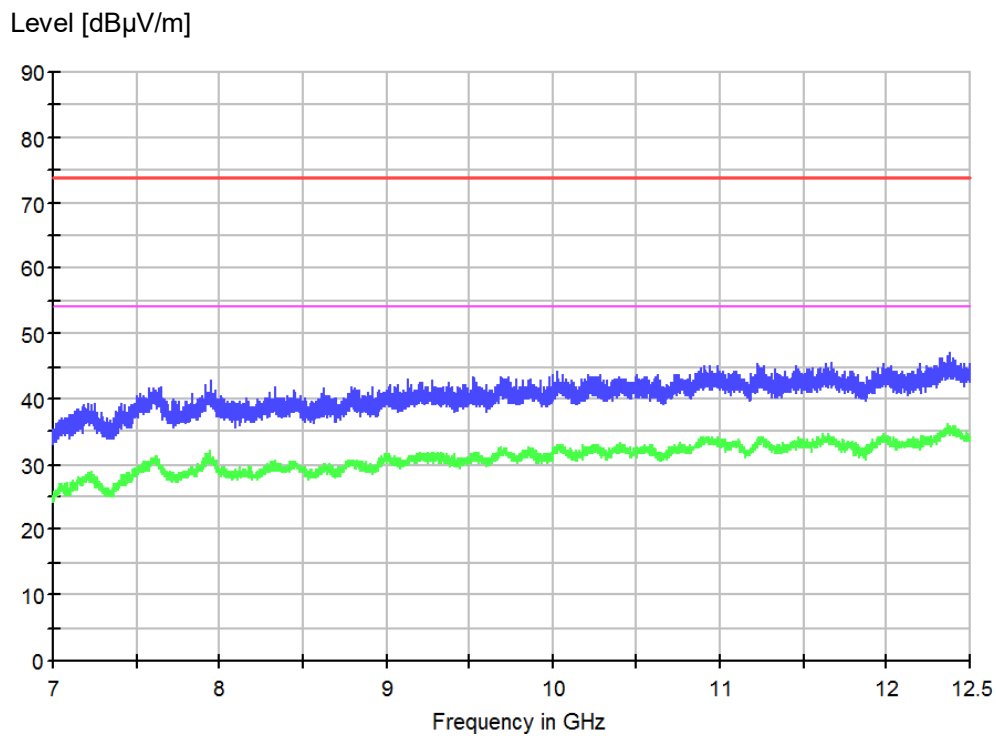


Figure 25: Spectral Diagrams and measurement results, 7 GHz-12.5 GHz, horizontal polarization for mode 2

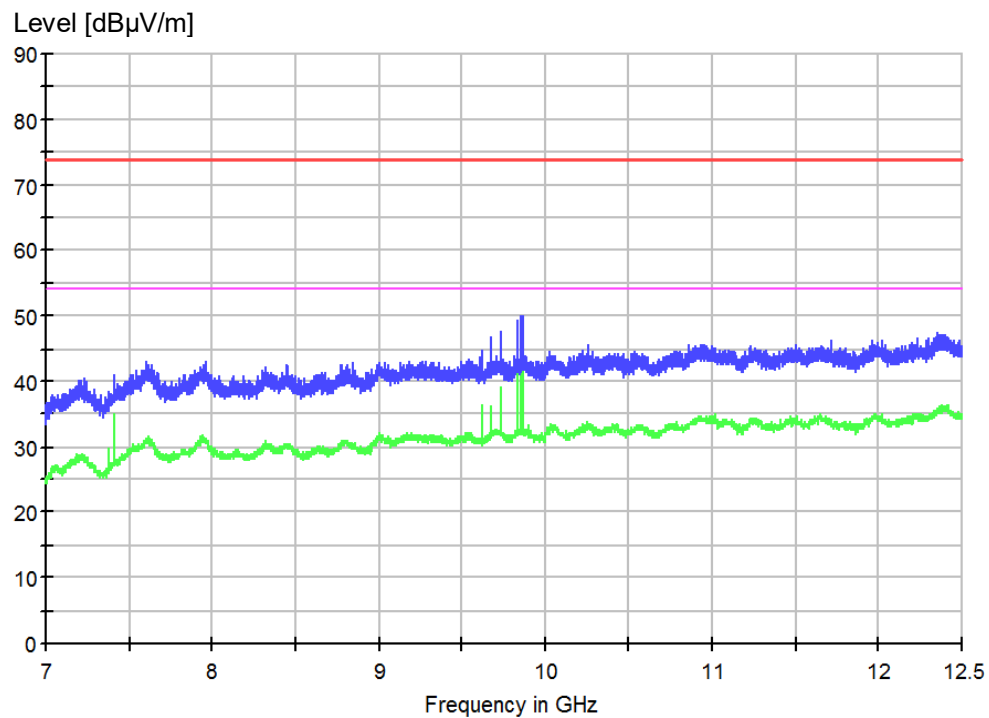


Figure 26: Spectral Diagrams and measurement results, 7 GHz-12.5 GHz, vertical polarization for mode 2

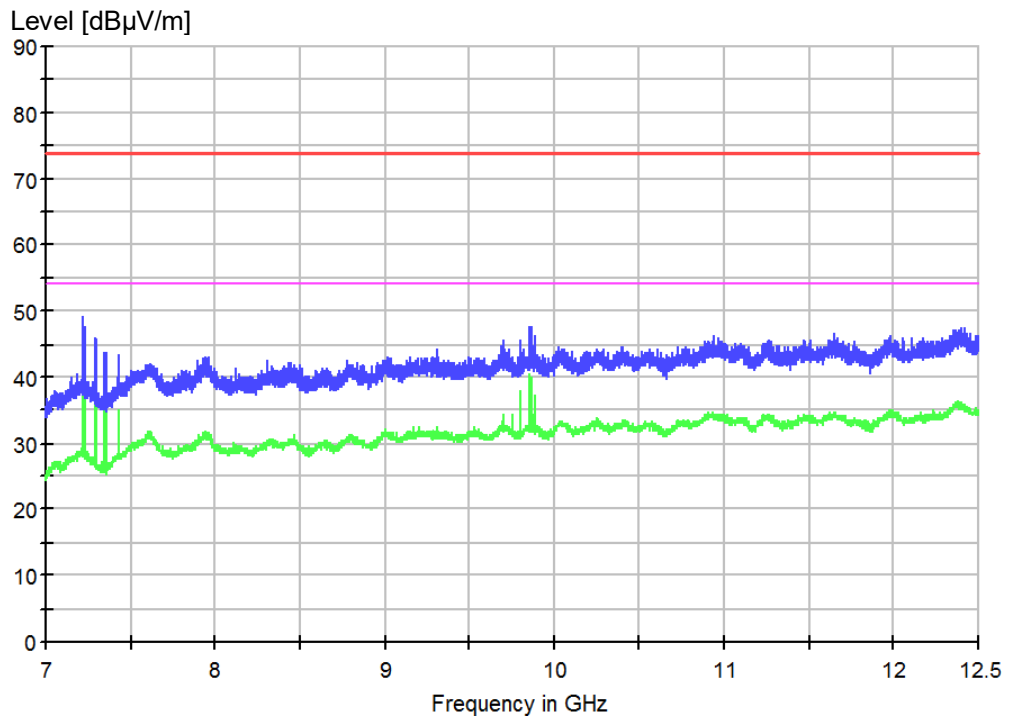


Figure 27: Spectral Diagrams and measurement results, 7 GHz-12.5 GHz, horizontal polarization for mode 3

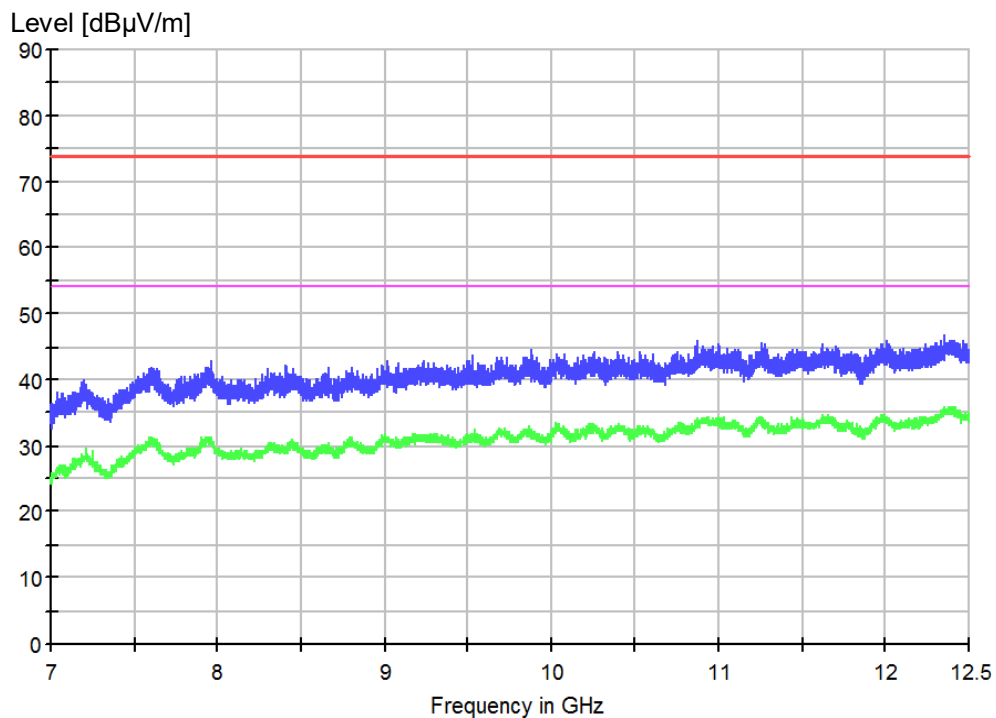


Figure 28: Spectral Diagrams and measurement results, 7 GHz-12.5 GHz, vertical polarization for mode 3

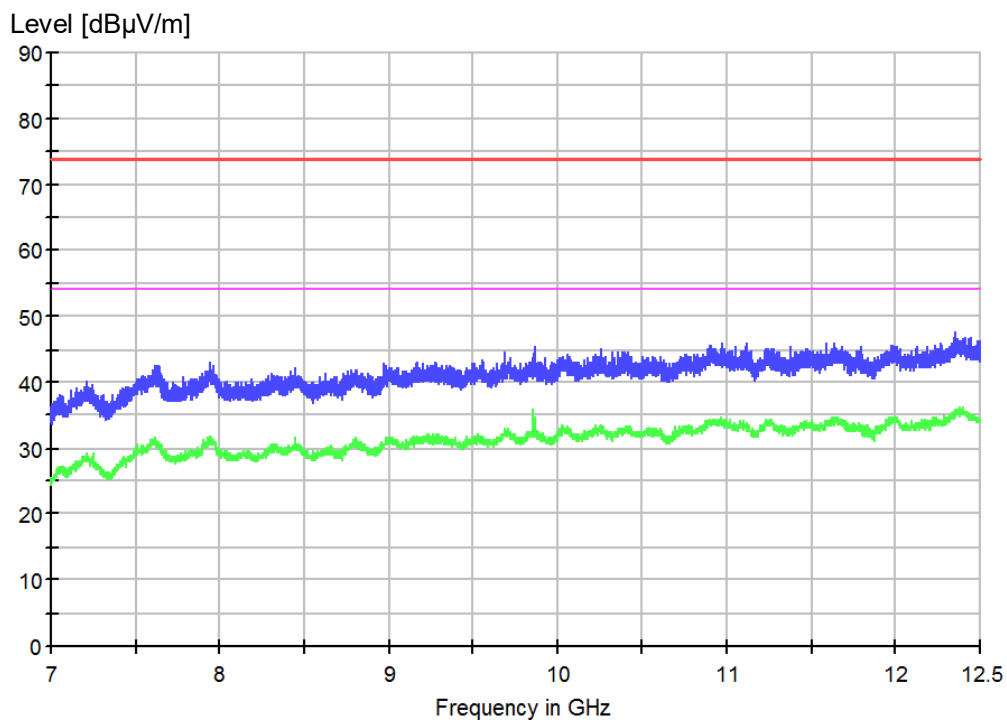


Figure 29: Spectral Diagrams and measurement results, 7 GHz-12.5 GHz, horizontal polarization for mode 4

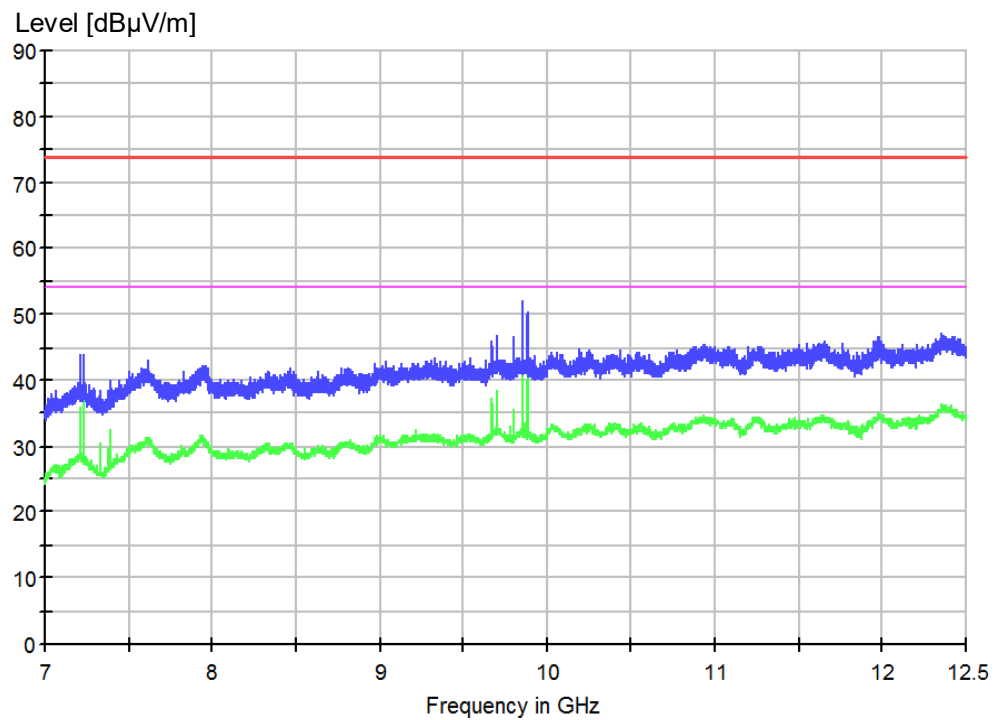
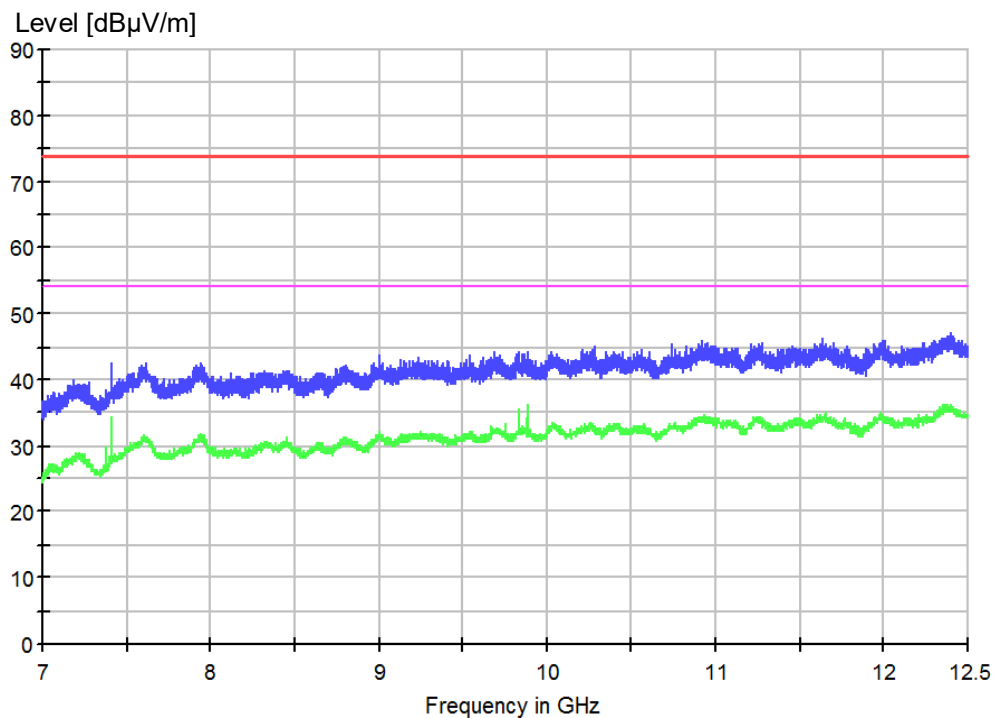


Figure 30: Spectral Diagrams and measurement results, 7 GHz-12.5 GHz, vertical polarization for mode 4



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5 Photographs of the Test Set-Up

Refer to the test setup file

6 List of Test and Measurement Instruments

Equip.	Description	Model	Manufacturer	Due Date DD.MM.YYYY	Cal. Interval
G1811378	3m modified semi-anechoic chamber	SAC3	Frankonia	27.06.2022	3 years
G1811380	EMI test receiver	ESIB26	Rohde&Schwarz	06.03.2021	1 year
G1811425	Bilog antenna	CBL 6112D	Teseq	10.03.2023	3 years
G1824845	EMC measurement software	EMC32 (Ver 10.20.01)	Rohde&Schwarz	N/A	N/A
G1811417	Log periodic antenna	HL050	Rohde&Schwarz	10.03.2023	3 years
G1822702	Spectrum analyser	FSV40	Rohde&Schwarz	01.11.2021	3 years
G1825371	Preamplifier	EMC051845SE	Taiwan EMCI	06.03.2021	3 years

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