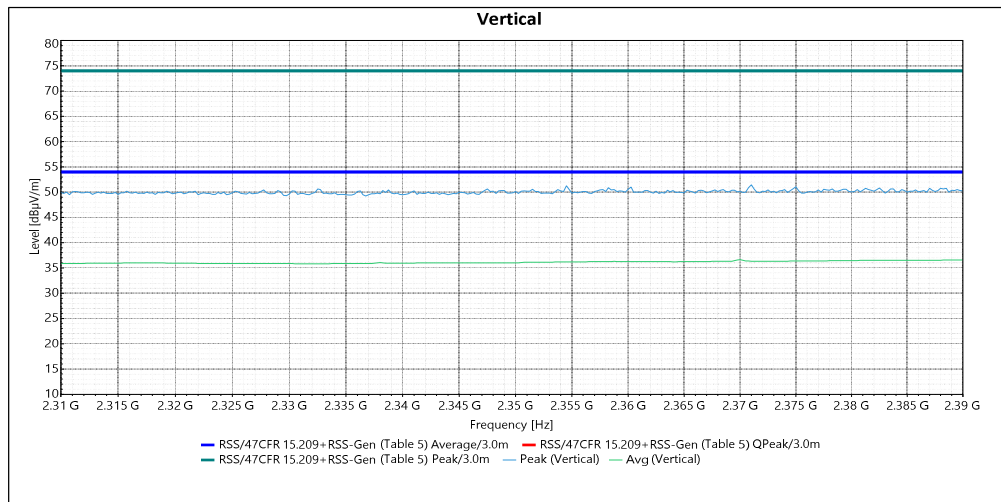
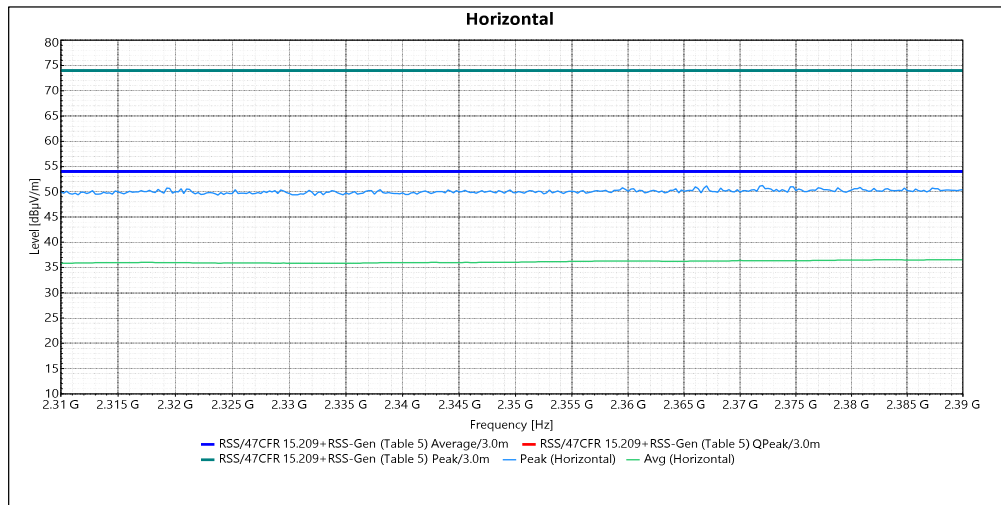


Channel	Max peak of in-band emission (dBm)	Frequency of max peak at the band edge (MHz)	Peak of carrier (dB)	Delta (dB)	Margin (dB)	polarization	Result
Bottom	50.03	2400	84.58	34.55	>20 dB	Horizontal	Pass
Bottom	50.23	2400	90.41	40.18	>20 dB	Vertical	Pass

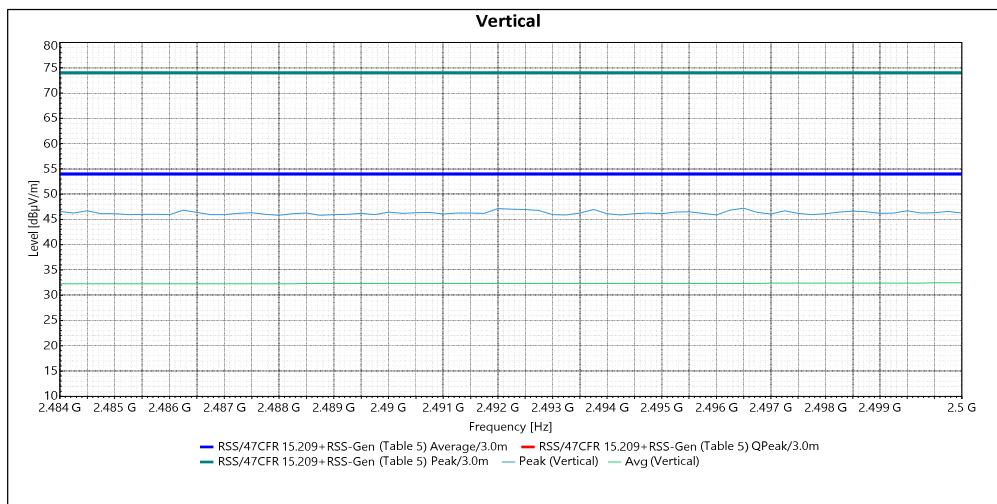
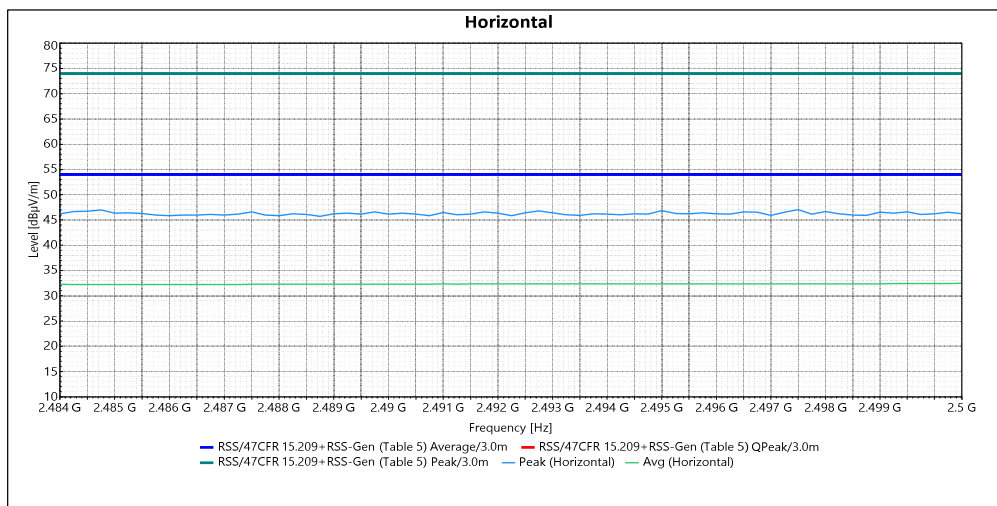
NOTE: 20 dB margin applied because conducted output power was measured using Peak detector.

Operating mode	1
Verdict	Pass
Instrument settings	Start Frequency: 2.31 GHz; Stop Frequency: 2.39 GHz; Step: 250 kHz; Sweep Time: 500 ms/Step; RF Attenuation: Auto; RBW: 1 MHz; VBW: Auto; Preamplifier: ON; Preselector: ON
Instrument settings	Start Frequency: 2.31 GHz; Stop Frequency: 2.39 GHz; Step: 250 kHz; Sweep Time: 500 ms/Step; RF Attenuation: Auto; RBW: 1 MHz; VBW: Auto; Preamplifier: ON; Preselector: ON



- ☒ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☐ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Operating mode	4
Verdict	Pass
Instrument settings	Start Frequency: 2.4835 GHz; Stop Frequency: 2.5 GHz; Step: 250 kHz; Sweep Time: 500 ms/Step; RF Attenuation: Auto; RBW: 1 MHz; VBW: Auto; Preamplifier: ON; Preselector: ON
Instrument settings	Start Frequency: 2.4835 GHz; Stop Frequency: 2.5 GHz; Step: 250 kHz; Sweep Time: 500 ms/Step; RF Attenuation: Auto; RBW: 1 MHz; VBW: Auto; Preamplifier: ON; Preselector: ON



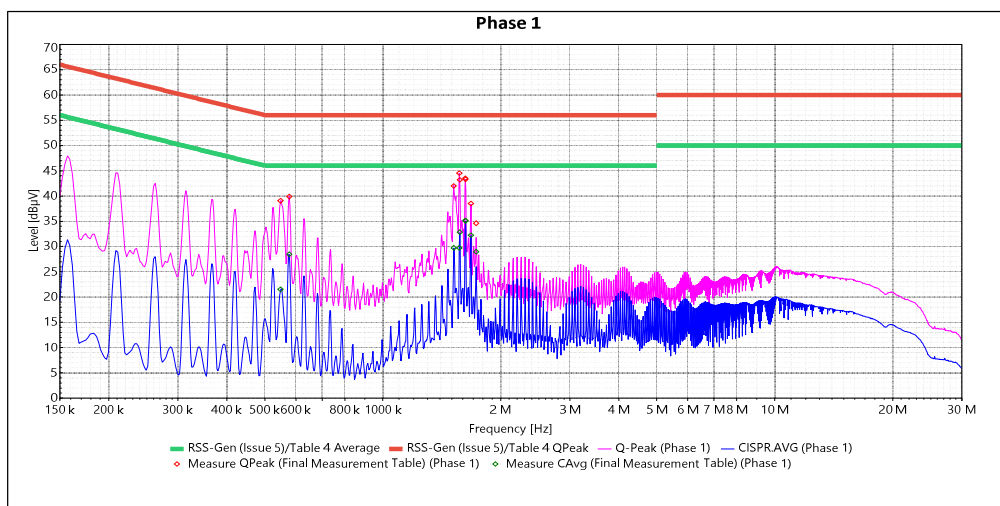
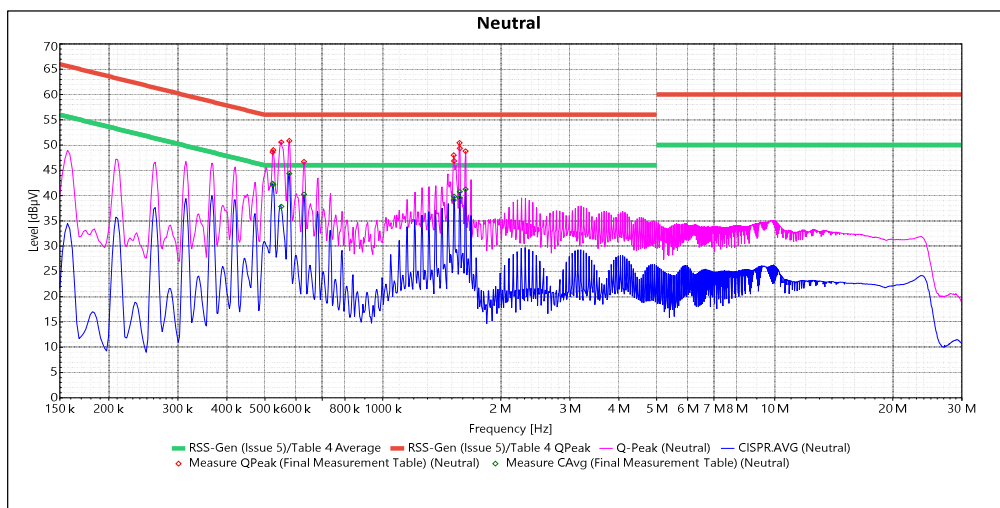
- ☒ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☐ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

6.9 AC power-line conducted emission

Tested by:	Borghesi Matteo	
Test date:	2025-03-27	
Test location (stand):	Area 11: SR2 (RF emission)	
Ambient temperature:	23 °C	
Relative humidity:	45 %	
Atmospheric pressure:	1002 mbar	
Test set-up description:	☒	Table top equipment set-up (vertical conducting plane located 40 cm to the rear of the EUT; EUT raised 80 cm above the reference ground plane)
	☐	Floor standing equipment set-up (placed directly on the reference ground plane)
	☐	Floor standing equipment set-up (placed on insulating material up to 12 mm, above the reference ground plane)
	☐	Other:
FCC Reference:	Part 15.207	
ISED Canada Reference:	RSS-Gen 8.8	
Test Method Used	ANSI C63.10 Section 6.2 / FCC KDB 174176 and notes below	
Used mains voltage/frequency:	120 V, 60 Hz 240 V, 60 Hz	
Supplementary information:	Preliminary measurements were performed at both 50 Hz and 60 Hz supply frequencies. There was no change to the observed emissions	

Results

Operating mode	1
Port / terminal	Mains IN
Used mains voltage/frequency ...	120 V, 60 Hz
Verdict.....	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON

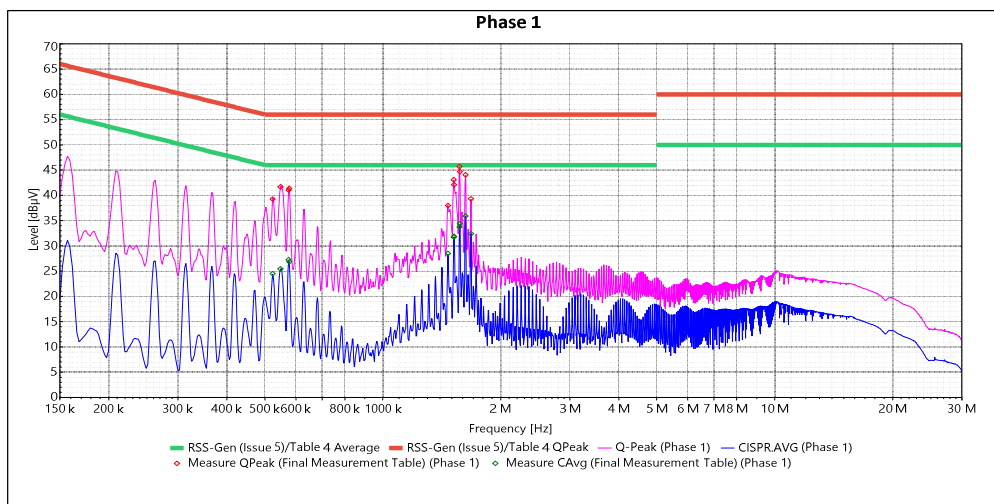
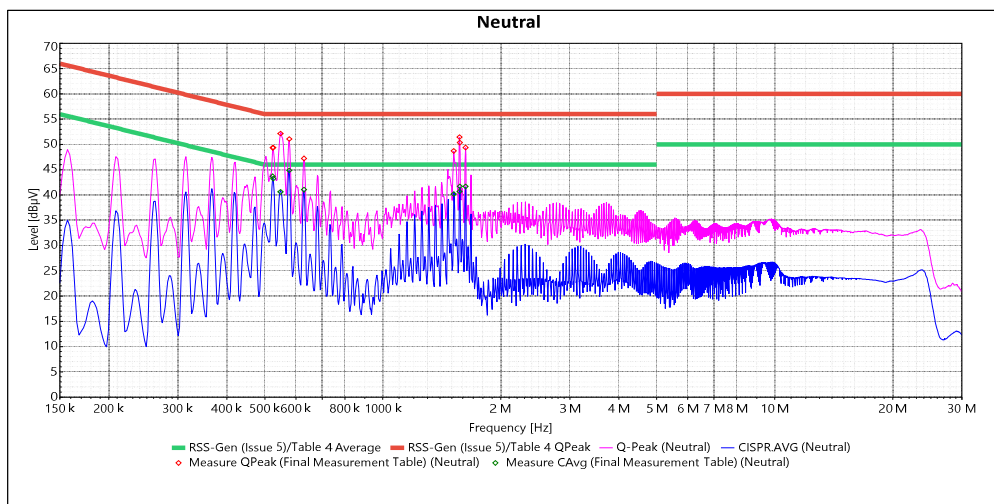


- ☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
523.5 kHz	48.62	56	-7.38	42.38	46	-3.62	9 kHz	5	Pass	10.23
525.75 kHz	49.01	56	-6.99	42.17	46	-3.83	9 kHz	5	Pass	10.23
550.5 kHz	50.58	56	-5.42	37.83	46	-8.17	9 kHz	5	Pass	10.23
577.5 kHz	50.86	56	-5.14	44.36	46	-1.64	9 kHz	5	Pass	10.23
629.25 kHz	46.69	56	-9.31	40.24	46	-5.76	9 kHz	5	Pass	10.24
1.518 MHz	48	56	-8	39.1	46	-6.9	9 kHz	5	Pass	10.25
1.52 MHz	46.87	56	-9.13	39.84	46	-6.16	9 kHz	5	Pass	10.25
1.57 MHz	50.43	56	-5.57	39.57	46	-6.43	9 kHz	5	Pass	10.25
1.572 MHz	49.36	56	-6.64	40.77	46	-5.23	9 kHz	5	Pass	10.25
1.626 MHz	48.79	56	-7.21	41.25	46	-4.75	9 kHz	5	Pass	10.25
548.25 kHz	39.06	56	-16.94	21.53	46	-24.47	9 kHz	5	Pass	10.23
577.5 kHz	39.89	56	-16.11	28.46	46	-17.54	9 kHz	5	Pass	10.23
1.518 MHz	42.01	56	-13.99	29.72	46	-16.28	9 kHz	5	Pass	10.25
1.568 MHz	44.54	56	-11.46	29.73	46	-16.27	9 kHz	5	Pass	10.25
1.572 MHz	43.2	56	-12.8	32.83	46	-13.17	9 kHz	5	Pass	10.25
1.624 MHz	43.51	56	-12.49	35.15	46	-10.85	9 kHz	5	Pass	10.25
1.626 MHz	43.32	56	-12.68	35.09	46	-10.91	9 kHz	5	Pass	10.25
1.678 MHz	38.51	56	-17.49	32.25	46	-13.75	9 kHz	5	Pass	10.25
1.73 MHz	34.62	56	-21.38	28.96	46	-17.04	9 kHz	5	Pass	10.26

Operating mode	2
Port / terminal	Mains IN
Used mains voltage/frequency ...	120 V, 60 Hz
Verdict	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON

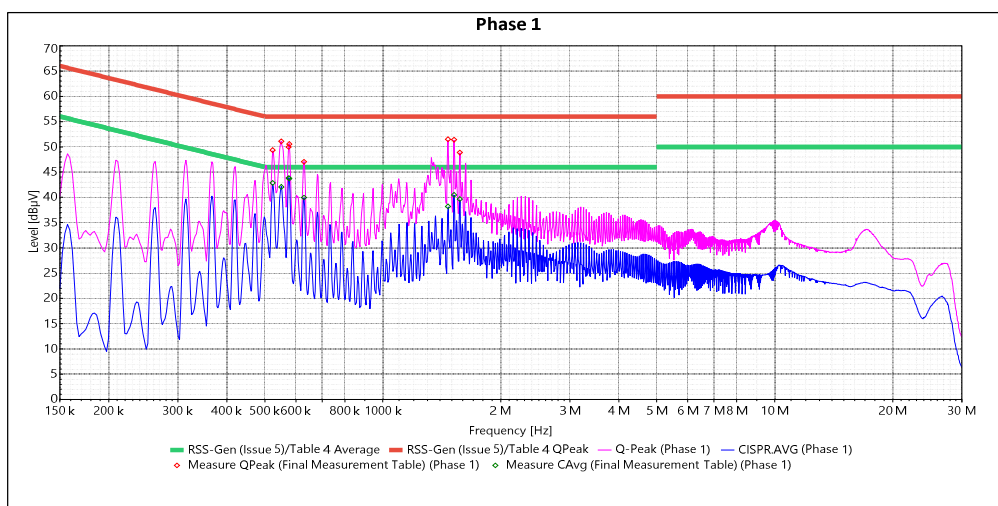
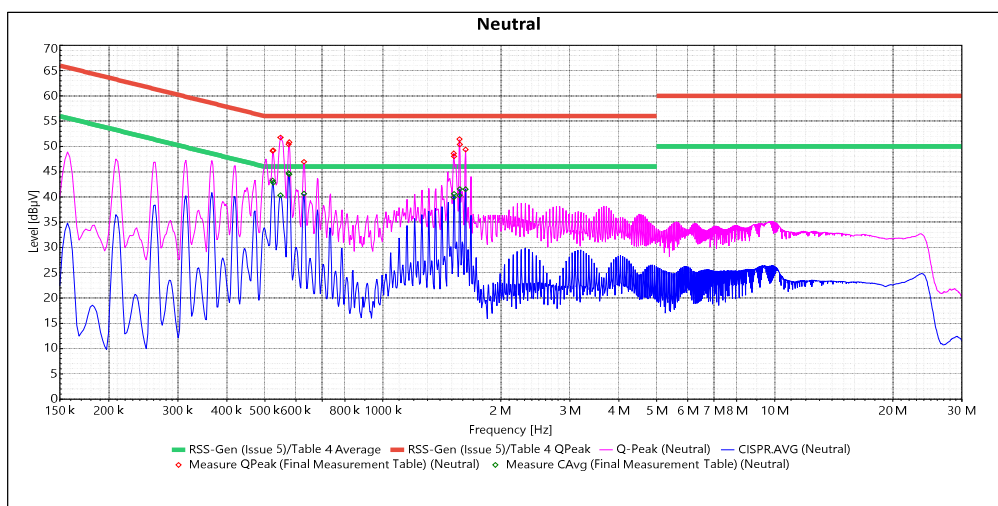


- ☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
523.5 kHz	49.34	56	-6.66	43.7	46	-2.3	9 kHz	5	Pass	10.23
525.75 kHz	49.37	56	-6.63	43.24	46	-2.76	9 kHz	5	Pass	10.23
548.25 kHz	52.15	56	-3.85	40.61	46	-5.39	9 kHz	5	Pass	10.23
577.5 kHz	51.08	56	-4.92	44.88	46	-1.12	9 kHz	5	Pass	10.23
629.25 kHz	47.23	56	-8.77	41.06	46	-4.94	9 kHz	5	Pass	10.24
1.518 MHz	48.71	56	-7.29	40.19	46	-5.81	9 kHz	5	Pass	10.25
1.57 MHz	51.46	56	-4.54	40.69	46	-5.31	9 kHz	5	Pass	10.25
1.572 MHz	50.36	56	-5.64	41.7	46	-4.3	9 kHz	5	Pass	10.25
1.626 MHz	49.39	56	-6.61	41.69	46	-4.31	9 kHz	5	Pass	10.25
523.5 kHz	39.27	56	-16.73	24.51	46	-21.49	9 kHz	5	Pass	10.23
548.25 kHz	41.7	56	-14.3	25.45	46	-20.55	9 kHz	5	Pass	10.23
575.25 kHz	41.07	56	-14.93	27.26	46	-18.74	9 kHz	5	Pass	10.23
577.5 kHz	41.37	56	-14.63	26.83	46	-19.17	9 kHz	5	Pass	10.23
1.466 MHz	37.99	56	-18.01	28.5	46	-17.5	9 kHz	5	Pass	10.25
1.518 MHz	43.09	56	-12.91	31.73	46	-14.27	9 kHz	5	Pass	10.25
1.52 MHz	42.09	56	-13.91	31.87	46	-14.13	9 kHz	5	Pass	10.25
1.57 MHz	45.7	56	-10.3	33.78	46	-12.22	9 kHz	5	Pass	10.25
1.572 MHz	44.69	56	-11.31	34.38	46	-11.62	9 kHz	5	Pass	10.25
1.626 MHz	44.05	56	-11.95	35.89	46	-10.11	9 kHz	5	Pass	10.25
1.678 MHz	39.31	56	-16.69	32.4	46	-13.6	9 kHz	5	Pass	10.25

Operating mode	3
Port / terminal	Mains IN
Used mains voltage/frequency ...	120 V, 60 Hz
Verdict	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON

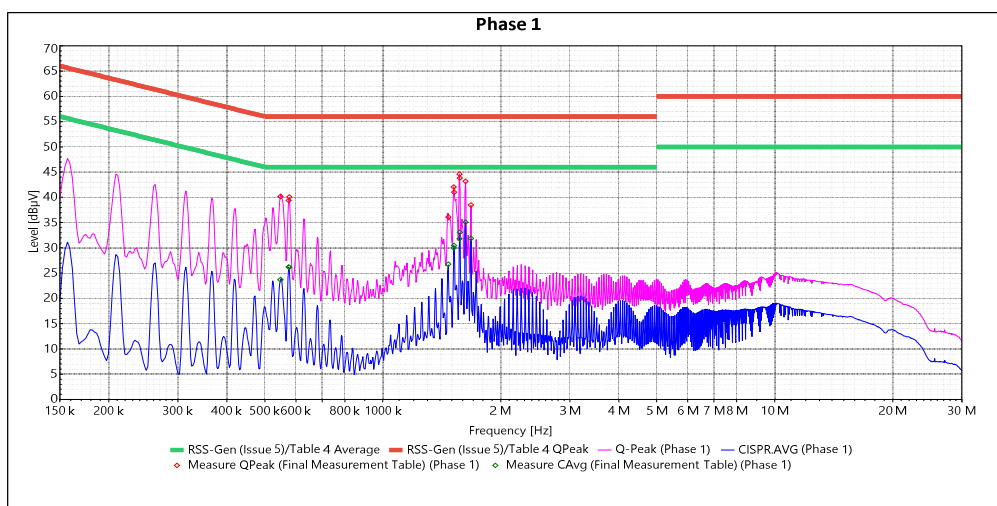
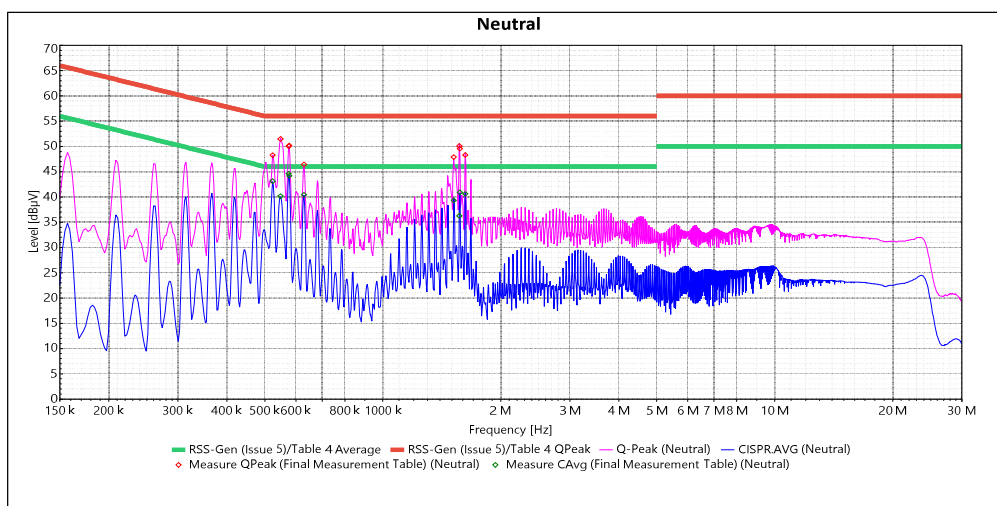


- ☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
523.5 kHz	49.13	56	-6.87	43.26	46	-2.74	9 kHz	5	Pass	10.23
525.75 kHz	49.24	56	-6.76	42.83	46	-3.17	9 kHz	5	Pass	10.23
548.25 kHz	51.78	56	-4.22	40.32	46	-5.68	9 kHz	5	Pass	10.23
575.25 kHz	50.43	56	-5.57	44.73	46	-1.27	9 kHz	5	Pass	10.23
577.5 kHz	50.86	56	-5.14	44.5	46	-1.5	9 kHz	5	Pass	10.23
629.25 kHz	46.97	56	-9.03	40.65	46	-5.35	9 kHz	5	Pass	10.24
1.518 MHz	48.63	56	-7.37	39.92	46	-6.08	9 kHz	5	Pass	10.25
1.52 MHz	48.05	56	-7.95	40.62	46	-5.38	9 kHz	5	Pass	10.25
1.57 MHz	51.45	56	-4.55	40.32	46	-5.68	9 kHz	5	Pass	10.25
1.572 MHz	50.4	56	-5.6	41.56	46	-4.44	9 kHz	5	Pass	10.25
1.626 MHz	49.39	56	-6.61	41.55	46	-4.45	9 kHz	5	Pass	10.25
523.5 kHz	49.35	56	-6.65	42.86	46	-3.14	9 kHz	5	Pass	10.23
550.5 kHz	51.09	56	-4.91	42.07	46	-3.93	9 kHz	5	Pass	10.23
575.25 kHz	49.96	56	-6.04	43.83	46	-2.17	9 kHz	5	Pass	10.23
577.5 kHz	50.55	56	-5.45	43.71	46	-2.29	9 kHz	5	Pass	10.23
629.25 kHz	47.04	56	-8.96	39.97	46	-6.03	9 kHz	5	Pass	10.24
1.466 MHz	51.51	56	-4.49	38.22	46	-7.78	9 kHz	5	Pass	10.25
1.52 MHz	51.42	56	-4.58	40.49	46	-5.51	9 kHz	5	Pass	10.25
1.572 MHz	48.88	56	-7.12	39.67	46	-6.33	9 kHz	5	Pass	10.25

Operating mode	4
Port / terminal	Mains IN
Used mains voltage/frequency ...	120 V, 60 Hz
Verdict	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON

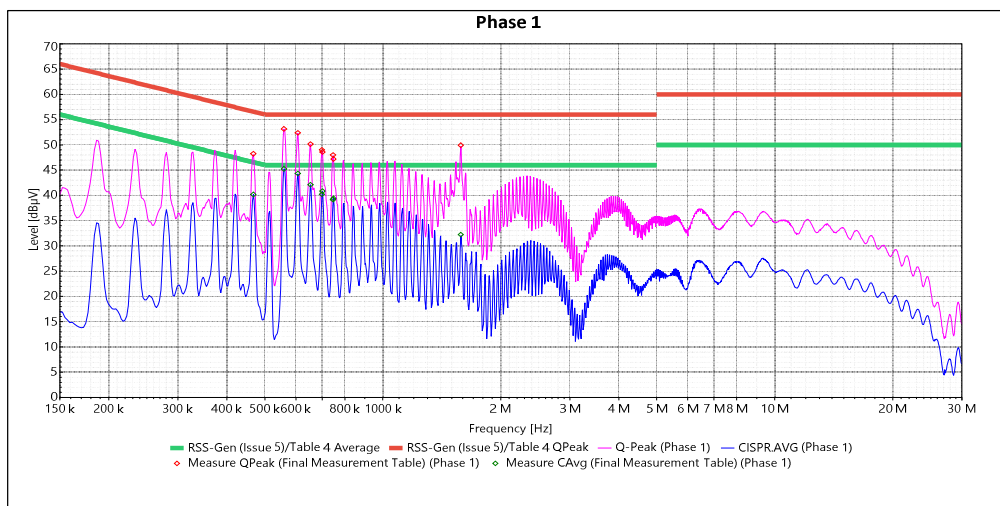
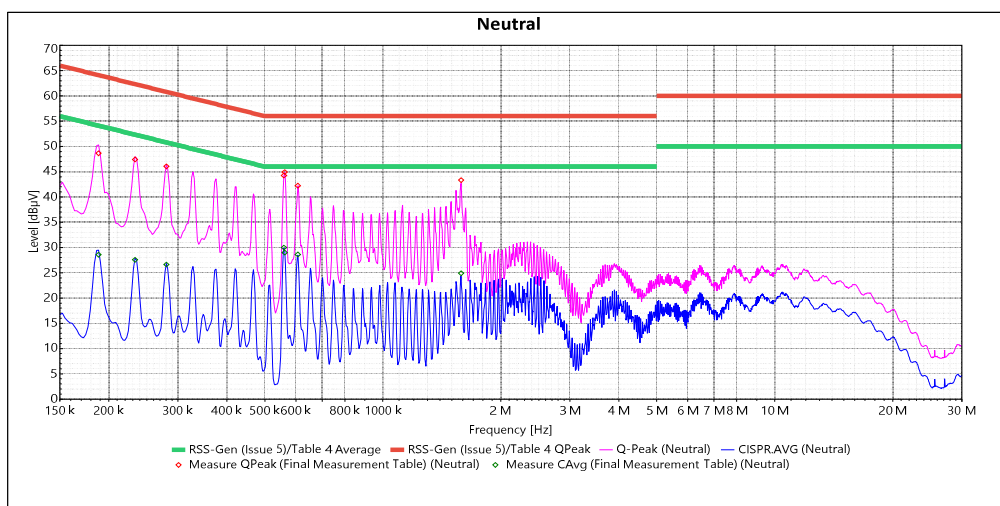


- ☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
523.5 kHz	48.27	56	-7.73	43.12	46	-2.88	9 kHz	5	Pass	10.23
548.25 kHz	51.48	56	-4.52	40.16	46	-5.84	9 kHz	5	Pass	10.23
575.25 kHz	50.06	56	-5.94	44.62	46	-1.38	9 kHz	5	Pass	10.23
577.5 kHz	50.17	56	-5.83	44.2	46	-1.8	9 kHz	5	Pass	10.23
629.25 kHz	46.43	56	-9.57	40.45	46	-5.55	9 kHz	5	Pass	10.24
1.518 MHz	47.9	56	-8.1	39.32	46	-6.68	9 kHz	5	Pass	10.25
1.568 MHz	50.08	56	-5.92	36.28	46	-9.72	9 kHz	5	Pass	10.25
1.572 MHz	49.58	56	-6.42	40.91	46	-5.09	9 kHz	5	Pass	10.25
1.624 MHz	48.31	56	-7.69	40.62	46	-5.38	9 kHz	5	Pass	10.25
548.25 kHz	40.17	56	-15.83	23.72	46	-22.28	9 kHz	5	Pass	10.23
575.25 kHz	39.39	56	-16.61	26.23	46	-19.77	9 kHz	5	Pass	10.23
577.5 kHz	40.08	56	-15.92	26.16	46	-19.84	9 kHz	5	Pass	10.23
1.469 MHz	36.11	56	-19.89	26.77	46	-19.23	9 kHz	5	Pass	10.25
1.518 MHz	42.06	56	-13.94	29.99	46	-16.01	9 kHz	5	Pass	10.25
1.52 MHz	41.03	56	-14.97	30.45	46	-15.55	9 kHz	5	Pass	10.25
1.57 MHz	44.6	56	-11.4	31.79	46	-14.21	9 kHz	5	Pass	10.25
1.572 MHz	43.82	56	-12.18	33.08	46	-12.92	9 kHz	5	Pass	10.25
1.626 MHz	43.17	56	-12.83	35.08	46	-10.92	9 kHz	5	Pass	10.25
1.678 MHz	38.49	56	-17.51	31.89	46	-14.11	9 kHz	5	Pass	10.25

Operating mode	1
Port / terminal	Mains IN
Used mains voltage/frequency ...	240 V, 60 Hz
Verdict	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON

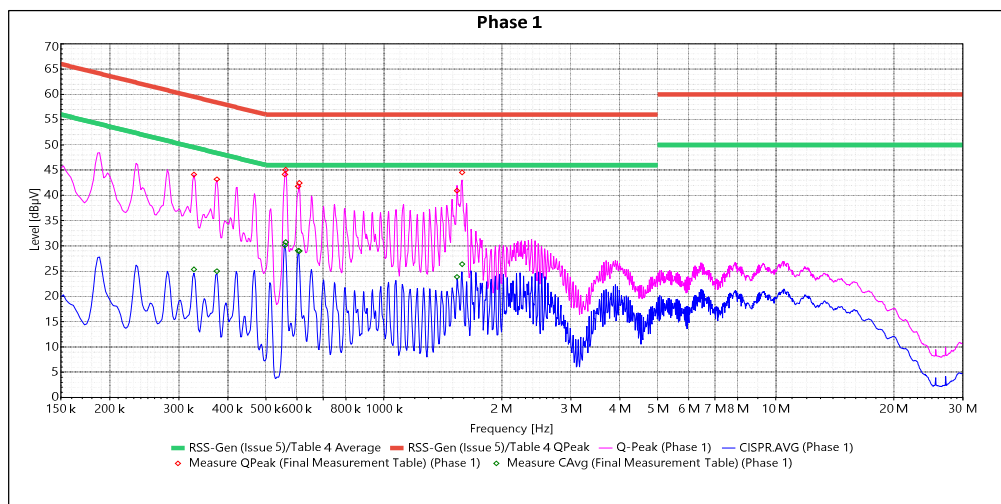
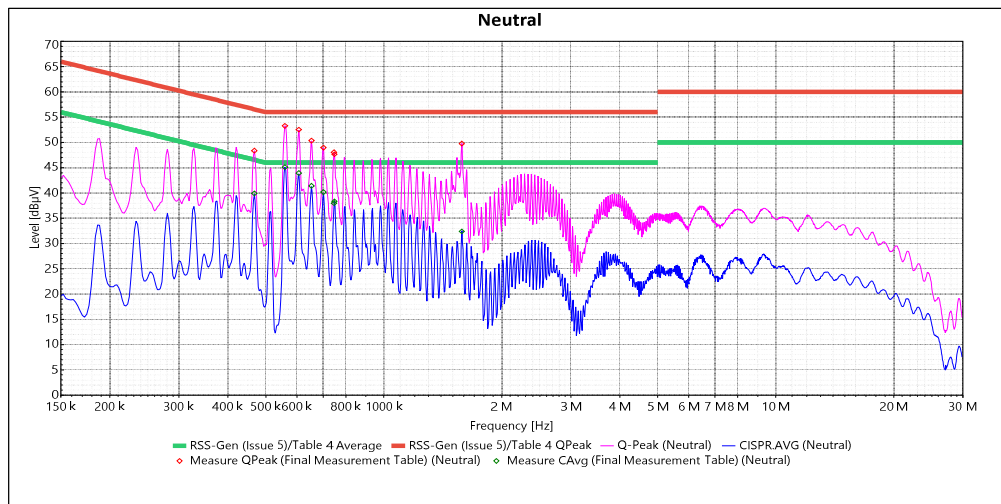


- ☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
188.25 kHz	48.66	64.11	-15.45	28.57	54.11	-25.54	9 kHz	5	Pass	10.22
233.25 kHz	47.43	62.33	-14.91	27.57	52.33	-24.77	9 kHz	5	Pass	10.22
280.5 kHz	46.05	60.8	-14.75	26.64	50.8	-24.16	9 kHz	5	Pass	10.22
559.5 kHz	44.27	56	-11.73	29.99	46	-16.01	9 kHz	5	Pass	10.23
561.75 kHz	44.94	56	-11.06	28.99	46	-17.01	9 kHz	5	Pass	10.23
606.75 kHz	42.23	56	-13.77	28.61	46	-17.39	9 kHz	5	Pass	10.24
1.583 MHz	43.34	56	-12.66	24.91	46	-21.09	9 kHz	5	Pass	10.25
467.25 kHz	48.24	56.56	-8.32	40.17	46.56	-6.39	9 kHz	5	Pass	10.23
559.5 kHz	53.16	56	-2.84	45.24	46	-0.76	9 kHz	5	Pass	10.23
606.75 kHz	52.38	56	-3.62	44.34	46	-1.66	9 kHz	5	Pass	10.24
654 kHz	50.15	56	-5.85	42.12	46	-3.88	9 kHz	5	Pass	10.24
699 kHz	49	56	-7	40.21	46	-5.79	9 kHz	5	Pass	10.24
701.25 kHz	48.6	56	-7.4	40.84	46	-5.16	9 kHz	5	Pass	10.24
746.25 kHz	47.98	56	-8.02	39.16	46	-6.84	9 kHz	5	Pass	10.24
748.5 kHz	47.2	56	-8.8	39.43	46	-6.57	9 kHz	5	Pass	10.24
1.581 MHz	49.92	56	-6.08	32.24	46	-13.76	9 kHz	5	Pass	10.25

Operating mode	2
Port / terminal	Mains IN
Used mains voltage/frequency ...	240 V, 60 Hz
Verdict	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON

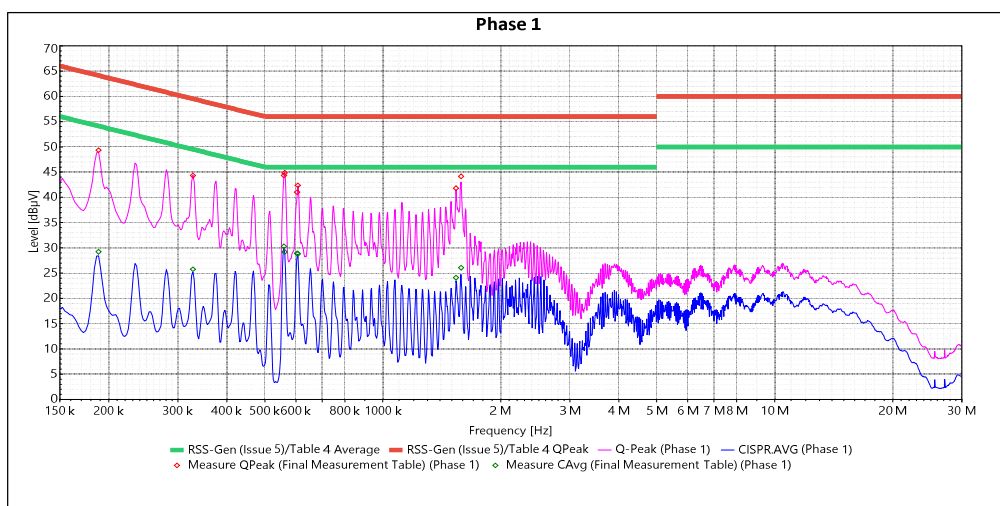
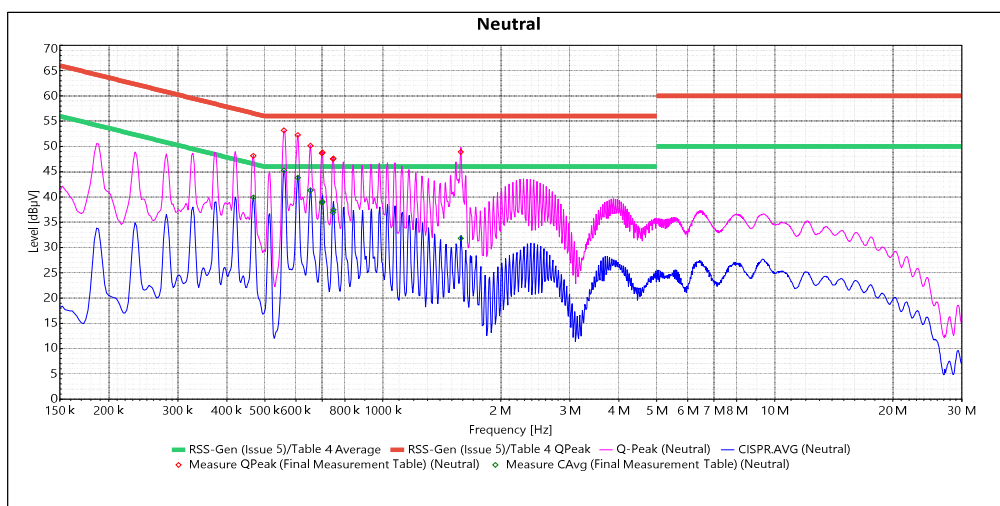


- ☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
467.25 kHz	48.38	56.56	-8.18	39.91	46.56	-6.65	9 kHz	5	Pass	10.23
559.5 kHz	53.28	56	-2.72	45.11	46	-0.89	9 kHz	5	Pass	10.23
606.75 kHz	52.54	56	-3.46	43.94	46	-2.06	9 kHz	5	Pass	10.24
654 kHz	50.36	56	-5.64	41.42	46	-4.58	9 kHz	5	Pass	10.24
701.25 kHz	48.98	56	-7.02	40.17	46	-5.83	9 kHz	5	Pass	10.24
746.25 kHz	48.06	56	-7.94	37.99	46	-8.01	9 kHz	5	Pass	10.24
748.5 kHz	47.65	56	-8.35	38.35	46	-7.65	9 kHz	5	Pass	10.24
1.581 MHz	49.77	56	-6.23	32.39	46	-13.61	9 kHz	5	Pass	10.25
327.75 kHz	44.12	59.51	-15.39	25.35	49.51	-24.16	9 kHz	5	Pass	10.23
375 kHz	43.2	58.39	-15.19	25.01	48.39	-23.38	9 kHz	5	Pass	10.23
559.5 kHz	44.18	56	-11.82	30.14	46	-15.86	9 kHz	5	Pass	10.23
561.75 kHz	45.06	56	-10.94	30.73	46	-15.27	9 kHz	5	Pass	10.23
604.5 kHz	41.79	56	-14.21	29.05	46	-16.95	9 kHz	5	Pass	10.24
609 kHz	42.46	56	-13.54	29	46	-17	9 kHz	5	Pass	10.24
1.538 MHz	40.93	56	-15.07	23.87	46	-22.13	9 kHz	5	Pass	10.25
1.583 MHz	44.53	56	-11.47	26.4	46	-19.6	9 kHz	5	Pass	10.25

Operating mode	3
Port / terminal	Mains IN
Used mains voltage/frequency ...	240 V, 60 Hz
Verdict	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON

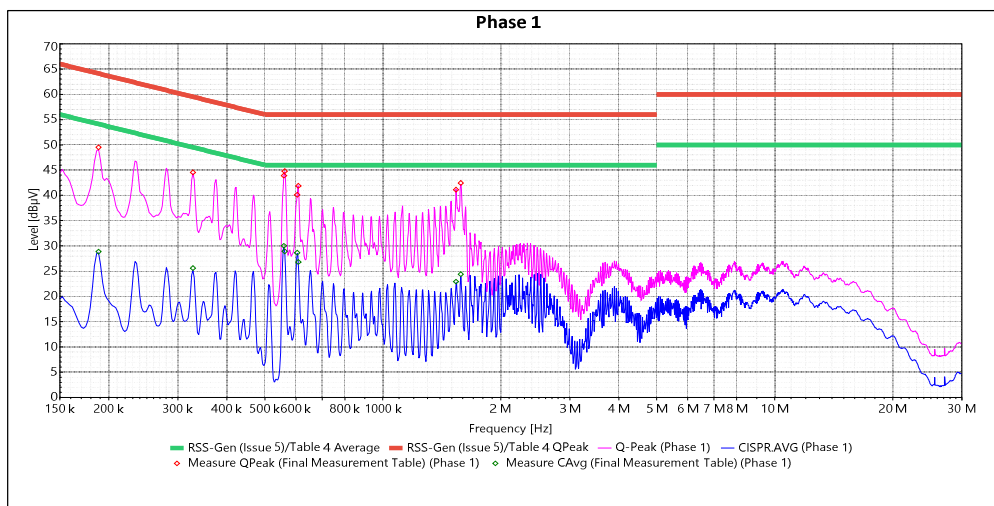
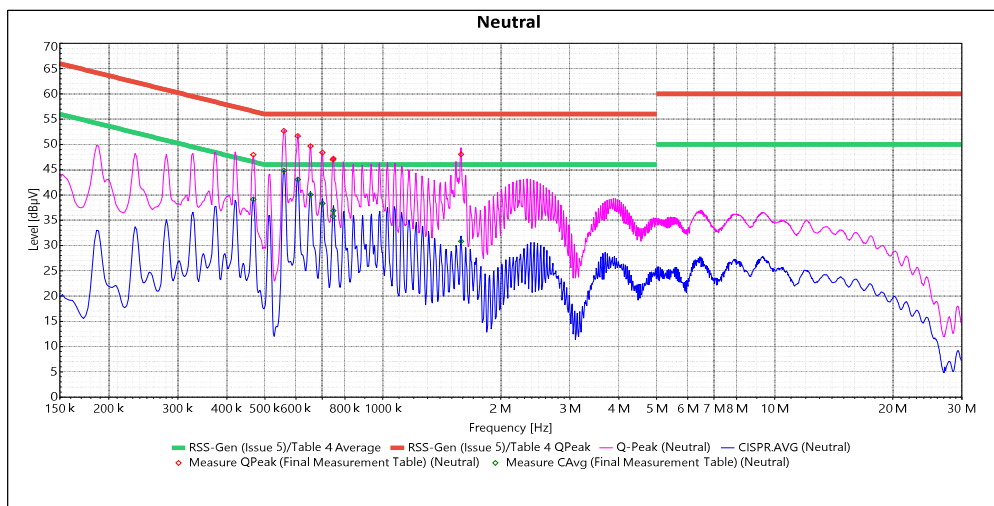


- ☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
467.25 kHz	48.15	56.56	-8.41	39.93	46.56	-6.64	9 kHz	5	Pass	10.23
559.5 kHz	53.19	56	-2.81	45.23	46	-0.77	9 kHz	5	Pass	10.23
606.75 kHz	52.28	56	-3.72	43.82	46	-2.18	9 kHz	5	Pass	10.24
654 kHz	50.14	56	-5.86	41.3	46	-4.7	9 kHz	5	Pass	10.24
699 kHz	48.61	56	-7.39	38.84	46	-7.16	9 kHz	5	Pass	10.24
701.25 kHz	48.83	56	-7.17	39.06	46	-6.94	9 kHz	5	Pass	10.24
746.25 kHz	47.52	56	-8.48	36.93	46	-9.07	9 kHz	5	Pass	10.24
748.5 kHz	47.61	56	-8.39	37.48	46	-8.52	9 kHz	5	Pass	10.24
1.581 MHz	48.9	56	-7.1	31.83	46	-14.17	9 kHz	5	Pass	10.25
188.25 kHz	49.33	64.11	-14.78	29.25	54.11	-24.86	9 kHz	5	Pass	10.22
327.75 kHz	44.32	59.51	-15.19	25.77	49.51	-23.74	9 kHz	5	Pass	10.23
559.5 kHz	44.34	56	-11.66	30.31	46	-15.69	9 kHz	5	Pass	10.23
561.75 kHz	44.87	56	-11.13	29.19	46	-16.81	9 kHz	5	Pass	10.23
604.5 kHz	41.02	56	-14.98	28.92	46	-17.08	9 kHz	5	Pass	10.24
606.75 kHz	42.37	56	-13.63	28.8	46	-17.2	9 kHz	5	Pass	10.24
1.538 MHz	41.83	56	-14.17	24.1	46	-21.9	9 kHz	5	Pass	10.25
1.583 MHz	44.16	56	-11.84	26.07	46	-19.93	9 kHz	5	Pass	10.25

Operating mode	4
Port / terminal	Mains IN
Used mains voltage/frequency ...	240 V, 60 Hz
Verdict	Pass
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON
Instrument settings	Start Frequency: 150 kHz; Stop Frequency: 30 MHz; Step: 2.25 kHz; Sweep Time: 1 s/Step; RF Attenuation: Auto; 10 dB min attenuation: ON; RBW: 9 kHz; Preamplifier: OFF; Preselector: ON



- ☐ The emissions are below the measurement system noise floor or 20 dB or more below the limit
- ☒ Final measurements for emissions that are above -20 dB from the applicable limits are shown below (at least 6 worst frequencies):

Final Measurement Table

Frequency	Measure QPeak (dBμV)	Limit QPeak (dBμV)	Margin QPeak (dB)	Measure CAvg (dBμV)	Limit Avg (dBμV)	Margin Avg (dB)	RBW (Hz)	Meas.Time (s)	Comments	Correction (dB)
467.25 kHz	47.97	56.56	-8.59	39.12	46.56	-7.44	9 kHz	5	Pass	10.23
559.5 kHz	52.69	56	-3.31	44.84	46	-1.16	9 kHz	5	Pass	10.23
606.75 kHz	51.67	56	-4.33	43.06	46	-2.94	9 kHz	5	Pass	10.24
654 kHz	49.66	56	-6.34	40.06	46	-5.94	9 kHz	5	Pass	10.24
701.25 kHz	48.4	56	-7.6	38.33	46	-7.67	9 kHz	5	Pass	10.24
746.25 kHz	46.97	56	-9.03	35.8	46	-10.2	9 kHz	5	Pass	10.24
748.5 kHz	47.22	56	-8.78	36.89	46	-9.11	9 kHz	5	Pass	10.24
1.583 MHz	48.07	56	-7.93	30.84	46	-15.16	9 kHz	5	Pass	10.25
188.25 kHz	49.5	64.11	-14.61	28.85	54.11	-25.26	9 kHz	5	Pass	10.22
327.75 kHz	44.54	59.51	-14.97	25.6	49.51	-23.9	9 kHz	5	Pass	10.23
559.5 kHz	43.9	56	-12.1	30.02	46	-15.98	9 kHz	5	Pass	10.23
561.75 kHz	44.8	56	-11.2	28.93	46	-17.07	9 kHz	5	Pass	10.23
604.5 kHz	40.1	56	-15.9	28.66	46	-17.34	9 kHz	5	Pass	10.24
609 kHz	41.88	56	-14.12	26.82	46	-19.18	9 kHz	5	Pass	10.24
1.538 MHz	41.14	56	-14.86	22.93	46	-23.07	9 kHz	5	Pass	10.25
1.581 MHz	42.45	56	-13.55	24.41	46	-21.59	9 kHz	5	Pass	10.25

7 List of test equipment

Equipment	Type	Inventory number	Manufacturer	Serial Number	Last calibration date	Calibration due date
Test Stand: Radiated emission 9 kHz to 30 MHz						
Software - EMC	BAT-EMC	156535	Nexio Technologies		-	-
SEMI-ANECHOIC CHAMBER	FACT3-1.2 STD	210407	ETS-Lindgren	-	-	-
EMI TEST RECEIVER	ESW26	207263	Rohde & Schwarz (Koeln) GmbH & Co. KG	101512	2024-05-17	2025-05-28
12m N(m)-N(m) RF cable	Hyperflex 5 12m	248398	Kabel Kusch	None	2024-05-14	2025-05-28
Antenna Tripod	CTP 6099	155934	Teseq, Inc	-	-	-
DC Power Injector	PI 6121	155980	Teseq, Inc	-	-	-
Center, Modular RF Platform	7000-011	210859	ETS-Lindgren	00231682	-	-
Active Loop Antenna	HLA 6121	155933	Teseq, Inc	45746	2025-02-14	2027-02-28
Test Stand: Radiated emission 30 MHz to 1 GHz						
Cable 2000mm - 18 GHz	SF126/11SMA/11N/2000	220503	Huber+Suhner	554756/126	2024-05-10	2025-05-28
Cable 8000mm - 18 GHz	SF126/11N/11N/8000	220502	Huber+Suhner	556226/126	2024-05-10	2025-05-28
NSA Normalized Site Attenuation	NSA FACT3-1.2 STD	210410	ETS-Lindgren	NSA FACT3-1.2 STD	2022-04-12	2025-04-28
SEMI-ANECHOIC CHAMBER	FACT3-1.2 STD	210407	ETS-Lindgren	-	-	-
Software - EMC	BAT-EMC	156535	Nexio Technologies		-	-
Trilog-Broadband Antenna	VULB 9168	210290	Schwarzbeck Mess-Elektronik OHG	1244	2023-08-25	2025-08-28
Tilting Antenna Mast Positioning Tower	2171B/2170B	135821	ETS-Lindgren (Cedar Park, Texas)	-	-	-
EMI TEST RECEIVER	ESW26	246431	Rohde & Schwarz (Koeln) GmbH & Co. KG	103182	2024-03-07	2025-03-28
Center, Modular RF Platform	7000-011	210859	ETS-Lindgren	00231682	-	-
6dB Attenuator	DGA 9552 N	210263	Schwarzbeck Mess-Elektronik OHG	CH9006	2023-09-06	2024-09-28
Test Stand: Radiated emission 1 GHz to 18 GHz + Band Edge						
Cable 2000mm - 18 GHz	SF126/11SMA/11N/2000	220503	Huber+Suhner	554756/126	2024-05-10	2025-05-28
Low-Noise EMI Preamp	BLMA 0118-4A	209025	BONN Elektronik	2113244A2113244A	2024-03-05	2025-03-28
Microwave Coaxial Cable N to Sma-M	AK 9515 H	213199	Schwarzbeck Mess-Elektronik OHG	00169	2024-05-10	2025-05-28
Highpass Filter	WHKX12-2520-2800-18000-60ST	154712	Wainwright Instruments GmbH	1	2023-10-27	2025-10-28
Software - EMC	BAT-EMC	156535	Nexio Technologies		-	-
SVSWR Voltage Standing Wave Ratio	SVSWR FACT3-1.2 STD	210409	ETS-Lindgren	SVSWR FACT3-1.2 STD	2022-04-12	2025-04-28
EMI TEST RECEIVER	ESW26	207263	Rohde & Schwarz (Koeln) GmbH & Co. KG	101512	2024-05-17	2025-05-28
Tilting Antenna Mast Positioning Tower	2171B/2170B	135821	ETS-Lindgren (Cedar Park, Texas)	-	-	-
Absorber High Frequency	EHP-12	212616	ETS-Lindgren	-	-	-
SEMI-ANECHOIC CHAMBER	FACT3-1.2 STD	210407	ETS-Lindgren	-	-	-
Center, Modular RF Platform	7000-011	210859	ETS-Lindgren	00231682	-	-
Double Ridged Broadband Horn Antenna	3117	138662	ETS-Lindgren (Cedar Park, Texas)	00208482	2025-01-30	2027-01-28
Cable 8000mm - 18 GHz	SF126/11N/11N/8000	220502	Huber+Suhner	556226/126	2024-05-10	2025-05-28

Test Stand: Radiated emission 18 GHz to 26 GHz						
SEMI-ANECHOIC CHAMBER	FACT3-1.2 STD	210407	ETS-Lindgren	-	-	-
Double Ridged Broadband Horn Antenna	3116C	210452	ETS-Lindgren	00240011	2024-05-20	2027-05-28
Center, Modular RF Platform	7000-011	210859	ETS-Lindgren	00231682	-	-
Absorber High Frequency	EHP-12	212616	ETS-Lindgren	-	-	-
Cable SK252 40GHz	SF102/11SK/11SK/900 mm	213660	Huber+Suhner	40421/2	2025-01-09	2026-01-28
Cable 6000mm - 0.04 to 26.5 GHz	SF526S-600-2X11PC35501	216873	Huber+Suhner	2717237001	2024-03-04	2025-03-28
Low-Noise EMI Preamplifier	BLMA 1840-1A	209026	BONN Elektronik	2113244B	2024-07-18	2025-07-28
Software - EMC	BAT-EMC	156535	Nexio Technologies	-	-	-
EMI TEST RECEIVER	ESW26	207263	Rohde & Schwarz (Koeln) GmbH & Co. KG	101512	2024-05-17	2025-05-28
Tilting Antenna Mast Positioning Tower	2171B/2170B	135821	ETS-Lindgren (Cedar Park, Texas)	-	-	-
Test Stand: Conducted radio tests						
Signal and Spectrum Analyzer 44 GHz	FSV3044	213658	Rohde & Schwarz	101224	2024-04-26	2025-04-28
EMI TEST RECEIVER	ESR7	204729	Rohde & Schwarz	102380	2024-04-12	2025-06-28
RF Cable Assemblies 150MM IPEX TO SMA FEMALE BULKHEAD 1.13 MM CABLE	ASMG015X113S17	234871	Siretta	-	2025-03-24	2026-03-28
Cable SK252 40GHz	SF102/11SK/11SK/900 mm	213660	Huber+Suhner	40421/2	2025-01-09	2026-01-28
Test Stand: Conducted emission on AC terminals						
EMI TEST RECEIVER	ESR7	204729	Rohde & Schwarz	102380	2024-04-12	2025-06-28
Line Impedance Stabilization Network 3PH32A	ENV432	154695	Rohde & Schwarz	101335	2025-01-09	2026-01-28
RF CABLES	LMR-240	175758	TIMES MICROWAVE SYSTEMS	None	2025-02-14	2026-02-28
Shielded Room 2 RF Emission	-	210412	ETS-Lindgren	-	-	-
Sheat current blocking cable	MSS 9630	210320	Schwarzbeck Mess-Elektronik OHG	None	2024-09-05	2025-09-28
Software - EMC	BAT-EMC	156535	Nexio Technologies	-	-	-
Auxiliary equipment						
Laser Measure	RSLDM-50H	224436	RS Pro	210743764	2023-11-10	2025-10-28
Mini Datalogger (FACT3)	174H	211147	Testo	83306371	2024-10-25	2025-10-28
TRUE-RMS DIGITAL MULTIMETER	289	169495	Fluke Corporation	40780217	2023-04-05	2025-04-28
Tape Measure	5.0 m	173756	TAJIMA	None	2022-11-07	2025-11-28
Isolated voltage variac (60 Hz)	T40NC-6	80699	BELOTTI VARIATORI	-	-	-

8 Measurement instrumentation uncertainties

The Uncertainty of Measurement (UoM) for each unit measured in this Test Report was estimated in accordance with the UL International Italia document No. 23-CL-G0025 and is retained on file. Details of the estimation of UoM may be made available upon request, in particular for quantities not listed.

Measurement	Range	Ulab	Unit
Frequency	9 kHz to 40 GHz	0.5	kHz
Time	0.7 μ s to 16000 s	3.00	%
Conducted power, by spectrum analyzer	9 kHz to 40 GHz	0.45	dB
Conducted power, by fast power meter	9 kHz to 8 GHz	0.41	dB
Temperature (ambient)	15 to 35 °C	0.72	°C
Temperature (climatic chamber)	-40 to 100 °C	1.63	°C
Humidity (ambient)	30 to 70 %	5.76	%RH
Humidity (climatic chamber)	30 to 95 %	3.95	%RH
Supply voltage (AC)	0 to 500 V	3.00	%
Supply voltage (DC)	0 to 15 V	0.28	%
Conducted disturbance at mains and other port power using V-AMN	9 kHz to 150 kHz	3.71	dB
Conducted disturbance at mains and other port power using V-AMN	150 kHz to 30 MHz	3.32	dB
Radiated disturbance (magnetic field using a loop antenna)	9 kHz to 30 MHz	3.16	dB
Radiated disturbance (electric field strength in SAC 3, hybrid antenna, Hor)	30 MHz to 1000 MHz	4.22	dB
Radiated disturbance (electric field strength in SAC 3, hybrid antenna, Ver)	30 MHz to 1000 MHz	5.64	dB
Radiated disturbance (electric field strength in SAC 5, hybrid antenna, Hor)	30 MHz to 1000 MHz	3.98	dB
Radiated disturbance (electric field strength in SAC 5, hybrid antenna, Ver)	30 MHz to 1000 MHz	5.66	dB
Radiated disturbance (electric field strength in FSOATS 3) (1)	1 GHz to 6 GHz	5.43	dB
Radiated disturbance (electric field strength in FSOATS 3) (2)	1 GHz to 6 GHz	4.29	dB
Radiated disturbance (electric field strength in FSOATS 3) (1)	6 GHz to 18 GHz	5.18	dB
Radiated disturbance (electric field strength in FSOATS 3) (2)	6 GHz to 18 GHz	4.22	dB
Radiated disturbance (electric field strength in FSOATS 5) (1)	1 GHz to 6 GHz	5.12	dB
Radiated disturbance (electric field strength in FSOATS 5) (2)	1 GHz to 6 GHz	4.13	dB
Radiated disturbance (electric field strength in FSOATS 5) (1)	6 GHz to 18 GHz	5.63	dB
Radiated disturbance (electric field strength in FSOATS 5) (2)	6 GHz to 18 GHz	4.54	dB
Radiated disturbance (electric field strength in FSOATS 3) (1)	18 GHz to 40 GHz	7.63	dB
Radiated disturbance (electric field strength in FSOATS 5) (1)	18 GHz to 40 GHz	7.63	dB
Radiated Spurious Emission (ERP/EIRP, Substitution Method)	25 MHz to 26 GHz	5.97	dB
Legend/Remarks: n.d.: not defined (1) Using external EMI preamplifier. (2) Not using external EMI preamplifier. Supplementary information: - The measurement uncertainty values are calculated and correspond to an expansion factor (coverage factor) $k = 2$ (which provide confidence level of 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). - Listed values are intended with prefix "±".			

< END OF TEST REPORT >