



SMART Technologies ULC

CBQR-3

FCC 15.209:2026

125kHz WPT Source and Inductive Radio

Report: SMTE0016.2 Rev. 01, Issue Date: May 20, 2026



This report must not be used to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government. This Report shall not be reproduced, except in full without written approval of the laboratory.

This report is Blockchain Verified. To verify the report's authenticity, please visit <https://www.blockchain-verified.com/> or by clicking the logo to the right.



TABLE OF CONTENTS

Section	Page Number
Certificate of Test	3
Revision History	4
Facilities	5
Measurement Uncertainty	6
Test Setup Block Diagrams	7
Product Description	10
Power Settings and Antennas	11
Configurations	12
Modifications	17
Powerline Conducted Emissions	18
Field Strength of Fundamental	35
Spurious Radiated Emissions (Less Than 30 MHz)	40
Spurious Radiated Emissions (Greater Than 30 MHz)	51
End of Report	59

CERTIFICATE OF TEST

Last Date of Test: January 26, 2026
 SMART Technologies ULC
 EUT: CBQR-3

Radio Equipment Testing

Standards

Specification	Method
FCC 15.209:2026	ANSI C63.10:2020 Cor.1:2023

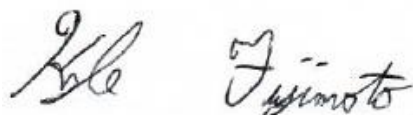
Results

Test Description	Result	Specification Section(s)	Method Section(s)	Comments
Powerline Conducted Emissions	Pass	15.207	15.207	
Field Strength of Fundamental	Pass	15.209	15.209	
Spurious Radiated Emissions (Less Than 30 MHz)	Pass	15.209	15.209	
Spurious Radiated Emissions (Greater Than 30 MHz)	Pass	15.209	15.209	

Deviations From Test Standards

None

Approved By:



Kyle Fujimoto, EMC Test Engineer
 Signed for and on behalf of Element

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

REVISION HISTORY



Revision Number		Description	Date (yyyy-mm-dd)	Page Number
00		None		
01		Updated to address TCB findings	2026-05-15	1, 11, 18, 35 – 59

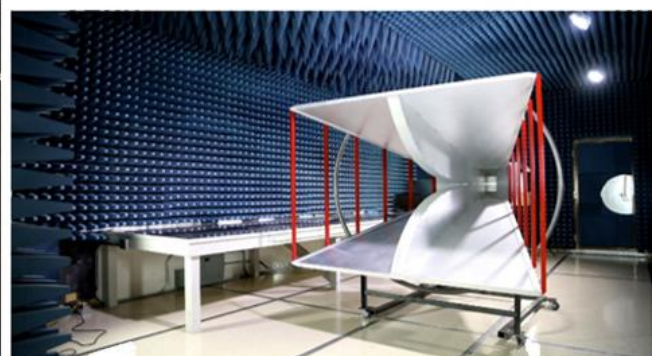
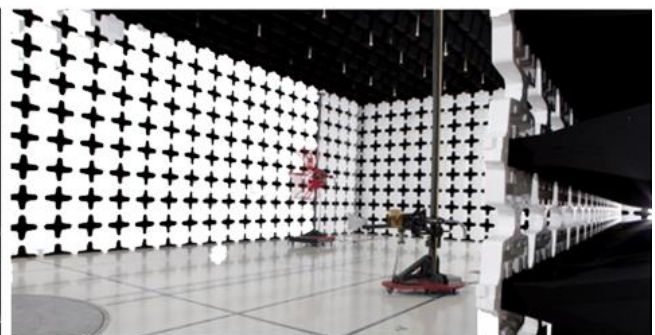
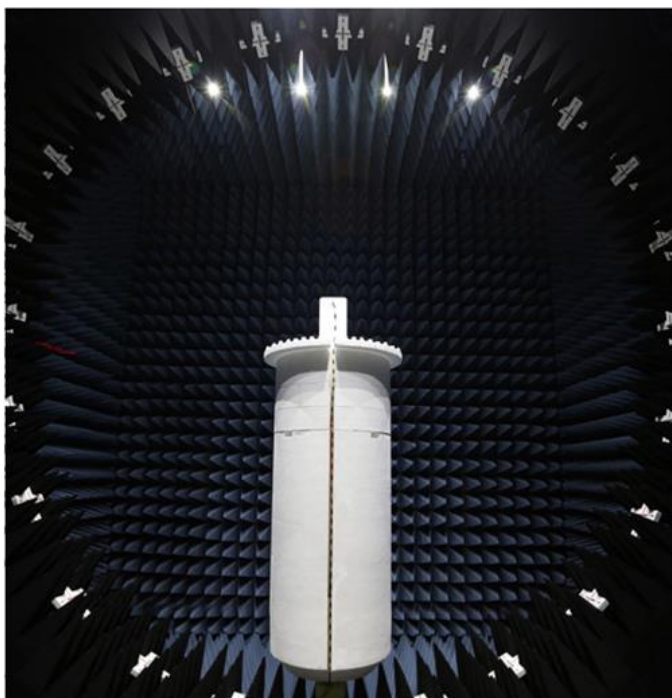
FACILITIES

Testing was performed at the following location(s)

	Location	Labs ⁽¹⁾	Address	A2LA ⁽²⁾	ISED ⁽³⁾	BSMI ⁽⁴⁾	VCCI ⁽⁵⁾	CAB	FDA ⁽⁶⁾
☐	California	OC01-17	41 Tesla Irvine, CA 92618 (949) 861-8918	3310.04	2834B	SL2-IN-E-1154R	A-0029	US0158	TL-55
☐	Minnesota	MN01-11	9349 W Broadway Ave. Brooklyn Park, MN 55445 (612) 638-5136	3310.05	2834E	SL2-IN-E-1152R	A-0109	US0175	TL-57
☒	Oregon	EV01-12	6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066	3310.02	2834D	SL2-IN-E-1017	A-0108	US0017	TL-56
☒	Washington	NC01-05	19201 120th Ave NE Bothell, WA 98011 (425) 984-6600	3310.06	2834F	SL2-IN-E-1153R	A-0110	US0157	TL-67
☐	Offsite	N/A	See Product Description	N/A	N/A	N/A	N/A	N/A	N/A

See data sheets for specific labs

- (1) The lab designations denote individual rooms within each location. (OC01, OC02, OC03, etc.)
- (2) A2LA Certificate No.
- (3) ISED Company No.
- (4) BSMI No.
- (5) VCCI Site Filing No.
- (6) FDA ASCA No.



MEASUREMENT UNCERTAINTY

Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation reported is based on statistical analysis that was performed by the laboratory. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty ($k=2$) can be found in the table below. A lab specific value may also be found in the applicable test description section. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable) and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Various Measurements

Test	All Labs (+/-)
Frequency Accuracy (%)	0.0007
Amplitude Accuracy (dB)	1.2
Conducted Power (dB)	1.2
Radiated Power via Substitution (dB)	0.7
Temperature (degrees C)	0.7
Humidity (% RH)	2.5
Voltage (AC) (%)	1
Voltage (DC) (%)	0.7
Near-field Measurement of E-Field (dB)	1.89
Near-field Measurement of H-Field (dB)	2.65

Field Strength Measurements (dB)

Range	EV01 (+/-)
9kHz-30MHz	1.8
30MHz-1GHz 3m	4.6
1GHz-6GHz	5.1
6GHz-40GHz	5.2
40GHz-220GHz	4.9

AC Powerline Conducted Emissions Measurements (dB)

Range	NC05 (+/-)
9kHz-150kHz LISN	3.5
150kHz-30MHz LISN	3.1
150kHz-30MHz CVP	2.9
150kHz-30MHz Telecom-ISN	4.4

TEST SETUP BLOCK DIAGRAMS

Measurement Bandwidths

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Unless otherwise stated, measurements were made using the bandwidths and detectors specified. No video filter was used.

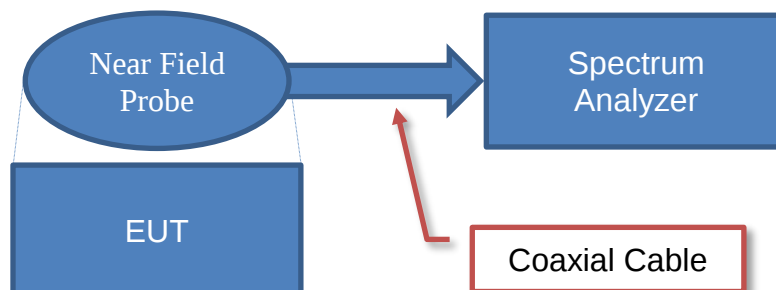
Antenna Port Conducted Measurements



Sample Calculation (logarithmic units)

Measured Value		Measured Level		Reference Level Offset
71.2	=	42.6	+	28.6

Near Field Test Fixture Measurements

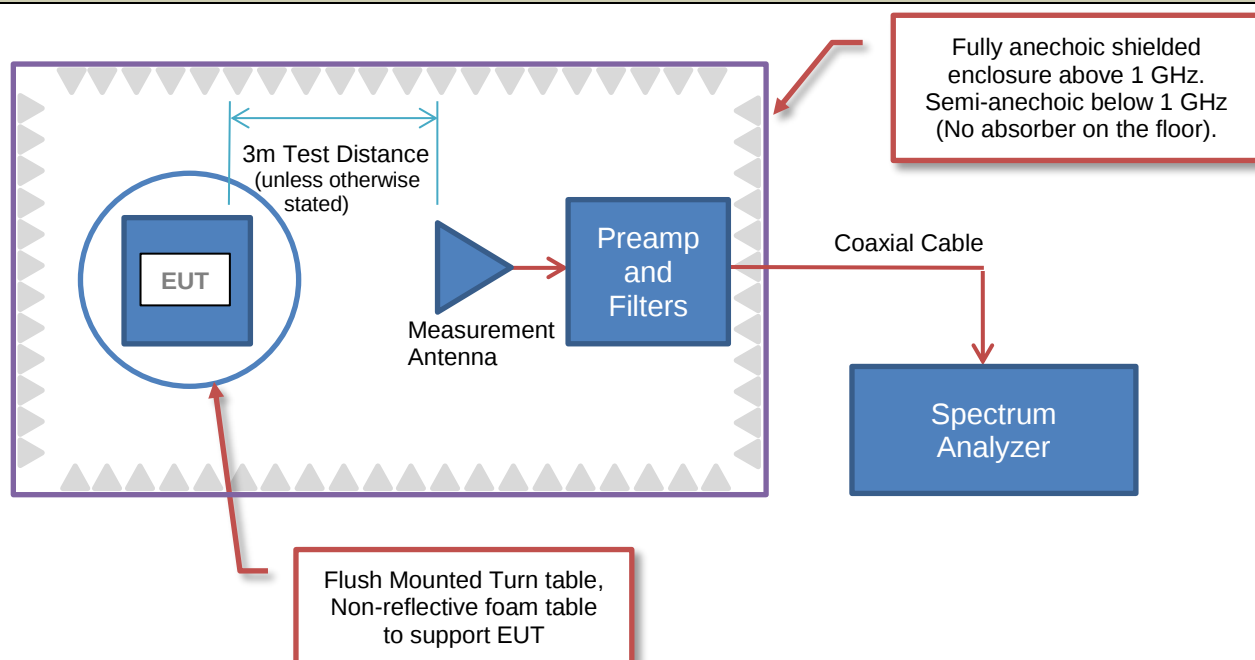


Sample Calculation (logarithmic units)

Measured Value		Measured Level		Reference Level Offset
71.2	=	42.6	+	28.6

TEST SETUP BLOCK DIAGRAMS

Emissions Measurements



Sample Calculation (logarithmic units)

Radiated Emissions:

Measured Level (Amplitude)	Factor			Distance Adjustment Factor	External Attenuation	Field Strength
	Antenna Factor	Cable Factor	Amplifier Gain			
42.6	28.6	3.1	40.8	0.0	0.0	33.5

Conducted Emissions:

Measured Level (Amplitude)	Factor		External Attenuation	Adjusted Level
	Transducer Factor	Cable Factor		
26.7	0.3	0.1	20.0	47.1

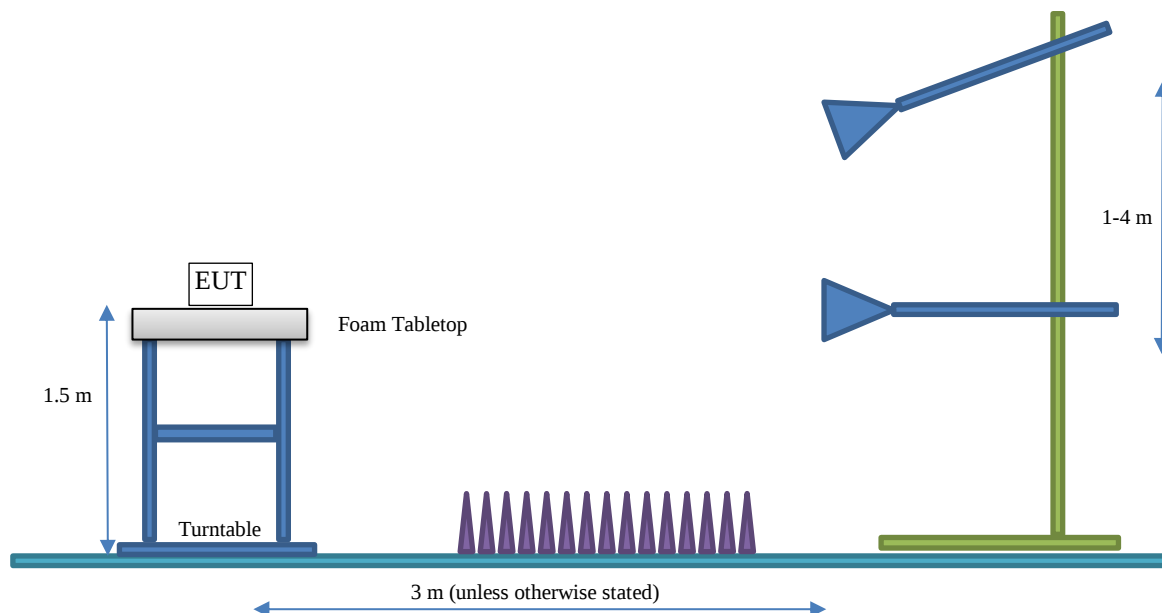
Radiated Power (ERP/EIRP) – Substitution Method:

Measured Level into Substitution Antenna (Amplitude dBm)	Substitution Antenna Factor (dBi)	EIRP to ERP (if applicable)	Measured power (dBm ERP/EIRP)
10.0	6.0	2.15	13.9/16.0

TEST SETUP BLOCK DIAGRAMS

Bore Sighting (>1GHz)

The diameter of the illumination area is the dimension of the line tangent to the EUT formed by 3 dB beamwidth of the measurement antenna at the measurement distance. At a 3 meter test distance, the diameter of the illumination area was 3.8 meters at 1 GHz and greater than 2.1 meters up to 6 GHz. Above 1 GHz, when required by the measurement standard, the antenna is pointed for both azimuth and elevation to maintain the receive antenna within the cone of radiation from the EUT. The specified measurement detectors were used for comparison of the emissions to the peak and average specification limits.



PRODUCT DESCRIPTION

Client and Equipment under Test (EUT) Information

Company Name:	SMART Technologies ULC
Address:	Suite 600, 214 11 Ave SW
City, State, Zip:	Calgary, AB T2R 0K1 CANADA
Test Requested By:	Sean MacKellar
EUT:	CBQR-3
First Date of Test:	January 7, 2026
Last Date of Test:	January 26, 2026
Receipt Date of Samples:	January 7, 2026
Equipment Design Stage:	Prototype
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

The CBQR-3 is a USB-powered accessory for use with SMART Interactive Flat Panel displays. The CBQR-3 utilizes a proprietary 2.4 GHz radio to function as a communication base for the SMART MultiStylus, Model: PQR-3, and supports detection of SMART legacy tools. The CBQR-3 is a Wireless Power Transfer source device, which functions as a charge dock to support wireless charging for the PQR-3 MultiStylus.

Testing Objective:

To demonstrate compliance of the inductive portion of the device to FCC Part 15.209 specifications

POWER SETTINGS AND ANTENNAS



The power settings, antenna gain value(s) and cable loss (if applicable) used for the testing contained in this report were provided by the customer and will affect the validity of the results. Element assumes no responsibility for the accuracy of this information. The power settings below reflect the maximum power that the EUT is allowed to transmit at during normal operation.

ANTENNA INFORMATION

Type	Dimensions (length, Diameter)	Number of Turns	Frequency Range (MHz)
Cylindrical Coil with Ferrite Core	22 mm, 7.5 mm	25	0.125

The EUT was tested using the power settings provided by the manufacturer which were based upon:

- ☒ Test software settings Software / firmware used for testing: 2.0.0.105, VTRIM80, 2.0.0.108
☐ Rated power settings

SETTINGS FOR ALL TESTS IN THIS REPORT

Modulation Types	Frequency (MHz)	Mode	Power Setting (RMS mA)
ASK, WPT	0.125	Charing	895
		Polling	156

CONFIGURATIONS



Configuration SMTE0016-1

Software/Firmware Running During Test	
Description	Version
ToolSensePrimaryDebug	2.0.0.105

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
SMART Docking Station	SMART Technologies ULC	CBQR-3	Normal

Peripherals in Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
SMART MultiStylus	SMART Technologies ULC	PQR-3	Engineering Load

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
150W DC Electronic Load	BK Precision	8540	182C24125
DC Powersupply	Topward electric	2303	946425
Laptop	HP	HSN-124C-4	5CG925B25F

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB-C to USB-A	Yes	3.0 m	No	SMART Docking Station	Laptop
DC Load	No	1.5 m	Yes	SMART MultiStylus	DC Load
DC Power	No	1.5 m	Yes	SMART MultiStylus	DC Power

CONFIGURATIONS

Configuration SMTE0016-3

Software/Firmware Running During Test	
Description	Version
ToolSensePrimaryDebug_VTRIM80	VTRIM80

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
SMART Docking Station	SMART Technologies ULC	CBQR-3	Normal

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop	HP	HSN-124C-4	5CG925B25F

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB-C to USB-A	Yes	3.0 m	No	SMART Docking Station	Laptop

Configuration SMTE0016-8

Software/Firmware Running During Test	
Description	Version
ToolSensePrimaryDebug	2.0.0.108

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
SMART Docking Station	SMART Technologies ULC	CBQR-3	Normal

Peripherals in Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop	HP	HSN-124C-4	5CG925B25F
Laptop PSU	HP	HSTNN-CA15	WFTLQ0CGC578BE

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB-C to USB-A	Yes	1.0 m	No	SMART Docking Station	Laptop
Laptop-to-PSU	No	1.6 m	No	Laptop	Laptop PSU
PSU-to-AC Mains	No	1.2 m	No	Laptop PSU	AC Mains

CONFIGURATIONS

Configuration SMTE0016-9

Software/Firmware Running During Test	
Description	Version
ToolSensePrimaryDebug	2.0.0.108

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
SMART Docking Station	SMART Technologies ULC	CBQR-3	Normal

Peripherals in Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
150W DC Electronic Load	BK Precision	8540	182C24125
SMART MultiStylus	SMART Technologies ULC	PQR-3	Engineering Load
Laptop	HP	HSN-124C-4	5CG925B25F
DC Powersupply	Tektronix	PS280	TW55636
Laptop PSU	HP	HSTNN-CA15	WFTLQ0CGC578BE

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Load	No	1.5 m	Yes	SMART MultiStylus	DC Load
DC Power	No	1.5 m	Yes	SMART MultiStylus	DC Power
USB-C to USB-A	Yes	1.0 m	No	SMART Docking Station	Laptop
Laptop-to-PSU	No	1.6 m	No	Laptop	Laptop PSU
PSU-to-AC Mains	No	1.2 m	No	Laptop PSU	AC Mains

CONFIGURATIONS



Configuration SMTE0016-11

Software/Firmware Running During Test	
Description	Version
ToolSensePrimaryDebug	2.0.0.108

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
SMART Docking Station	SMART Technologies ULC	CBQR-3	Normal

Peripherals in Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop	HP	HSN-124C-4	5CG925B25F
DC Powersupply	Tektronix	PS280	TW55636
Laptop PSU	HP	HSTNN-CA15	WFTLQ0CGC578BE

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Laptop-to-PSU	No	1.6 m	No	Laptop	Laptop PSU
PSU-to-AC Mains	No	1.2 m	No	Laptop PSU	AC Mains
USB-C to USB-A + Custom Extension	Yes	2.8 m	No	Laptop	SMART Docking Station
DC Leads	No	1 m	No	Custom Extension	DC Power Supply
Tektronix AC Power	No	2 m	Yes	DC Power Supply	AC Mains

CONFIGURATIONS



Configuration SMTE0016-12

Software/Firmware Running During Test	
Description	Version
ToolSensePrimaryDebug	2.0.0.108

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
SMART Docking Station	SMART Technologies ULC	CBQR-3	Normal

Peripherals in Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
150W DC Electronic Load	BK Precision	8540	182C24125
SMART MultiStylus	SMART Technologies ULC	PQR-3	Engineering Load
Laptop	HP	HSN-124C-4	5CG925B25F
DC Powersupply	Tektronix	PS280	TW55636
Laptop PSU	HP	HSTNN-CA15	WFTLQ0CGC578BE
DC Power Supply	Powerbes	SPS605	N/A

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Load	No	1.5 m	Yes	SMART MultiStylus	DC Load
DC Power	No	1.5 m	Yes	SMART MultiStylus	DC Power
Laptop-to-PSU	No	1.6 m	No	Laptop	Laptop PSU
PSU-to-AC Mains	No	1.2 m	No	Laptop PSU	AC Mains
USB-C to USB-A + Custom Extension	Yes	2.8 m	No	Laptop	SMART Docking Station
DC Leads	No	1 m	No	Custom Extension	DC Power Supply
Tektronix AC Power	No	2 m	Yes	DC Power Supply	AC Mains

MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2026-01-07	Spurious Radiated Emissions (Greater than 30 MHz)	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
2	2026-01-09	Field Strength of Fundamental	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
3	2026-01-09	Spurious Radiated Emissions (Less than 30 MHz)	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
4	2026-01-26	Powerline Conducted Emissions	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

AC POWERLINE CONDUCTED EMISSIONS

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Per the standard, an insulating material was also added to ground plane between the EUT's power and remote I/O cables. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Receiver	Gauss Instruments	TDEMI 30M	ARR	2025-05-20	2026-05-20
Cable - Conducted Cable Assembly	Northwest EMC	NC4, HHF, TYL	NC4A	2025-02-10	2026-02-10
Pulse Limiter	Narda Safety Test Solutions	PL-01	VAD	NCR	NCR
LISN	Solar Electronics	9252-50-R-24-BNC	LIP	2025-11-12	2026-11-12

CONFIGURATIONS INVESTIGATED

SMTE0016-8
SMTE0016-9
SMTE0016-11
SMTE0016-12

MODES INVESTIGATED

Max Charging mode
Polling mode

AC POWERLINE CONDUCTED EMISSIONS



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal (WPT)	Date:	2026-01-22
Customer:	SMART Technologies ULC	Temperature:	20.9°C
Attendees:	Sean MacKellar	Relative Humidity:	27.4%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mb
Tested By:	Harry Zhao	Job Site:	NC05
Power:	Power over USB	Configuration:	SMTE0016-8

TEST PARAMETERS

Run #:	46	Line:	High Line	Add. Ext. Attenuation (dB):	0
--------	----	-------	-----------	-----------------------------	---

COMMENTS

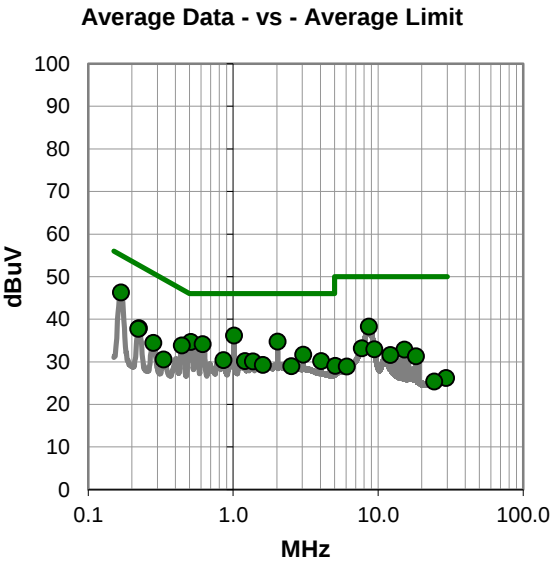
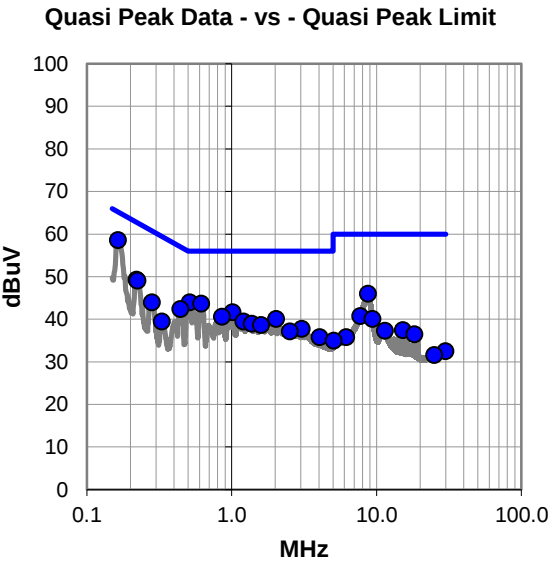
Laptop PSU connected 120V/60Hz AC.

EUT OPERATING MODES

Polling mode

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #46

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.164	38.6	20.0	58.6	65.3	-6.7
0.512	24.4	19.6	44.0	56.0	-12.0
0.615	24.1	19.6	43.7	56.0	-12.3
0.220	29.5	19.8	49.3	62.8	-13.5
0.223	29.3	19.8	49.1	62.7	-13.6
8.707	26.0	20.0	46.0	60.0	-14.0
1.014	22.0	19.7	41.7	56.0	-14.3
0.443	22.7	19.7	42.4	57.0	-14.6
0.859	20.9	19.7	40.6	56.0	-15.4
2.027	20.3	19.8	40.1	56.0	-15.9
1.203	19.8	19.7	39.5	56.0	-16.5
0.281	24.3	19.7	44.0	60.8	-16.8
1.377	19.3	19.7	39.0	56.0	-17.0
1.596	19.0	19.7	38.7	56.0	-17.3
3.038	17.9	19.9	37.8	56.0	-18.2
2.526	17.4	19.8	37.2	56.0	-18.8
7.712	20.8	20.0	40.8	60.0	-19.2
9.393	20.0	20.1	40.1	60.0	-19.9
0.330	19.8	19.7	39.5	59.5	-20.0
4.051	15.9	19.9	35.8	56.0	-20.2
15.197	16.9	20.6	37.5	60.0	-22.5
11.447	17.2	20.1	37.3	60.0	-22.7
18.235	15.6	20.9	36.5	60.0	-23.5
6.188	15.8	20.0	35.8	60.0	-24.2
5.066	15.1	19.9	35.0	60.0	-25.0

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.168	26.4	19.9	46.3	55.0	-8.7
1.014	16.5	19.7	36.2	46.0	-9.8
2.025	15.0	19.8	34.8	46.0	-11.2
0.510	15.1	19.6	34.7	46.0	-11.3
8.623	18.3	20.0	38.3	50.0	-11.7
0.615	14.6	19.6	34.2	46.0	-11.8
0.443	14.2	19.7	33.9	47.0	-13.1
3.038	11.8	19.9	31.7	46.0	-14.3
0.223	18.1	19.8	37.9	52.7	-14.8
0.222	18.0	19.8	37.8	52.8	-15.0
0.856	10.7	19.7	30.4	46.0	-15.6
1.204	10.5	19.7	30.2	46.0	-15.8
4.051	10.3	19.9	30.2	46.0	-15.8
1.366	10.4	19.7	30.1	46.0	-15.9
0.281	14.8	19.7	34.5	50.8	-16.3
1.603	9.6	19.7	29.3	46.0	-16.7
7.697	13.2	20.0	33.2	50.0	-16.8
2.513	9.2	19.8	29.0	46.0	-17.0
9.393	12.9	20.1	33.0	50.0	-17.0
15.194	12.3	20.6	32.9	50.0	-17.1
12.158	11.3	20.3	31.6	50.0	-18.4
18.234	10.4	20.9	31.3	50.0	-18.7
0.330	10.9	19.7	30.6	49.5	-18.9
5.066	9.2	19.9	29.1	50.0	-20.9
6.078	8.9	20.0	28.9	50.0	-21.1

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal (WPT)	Date:	2026-01-22
Customer:	SMART Technologies ULC	Temperature:	20.9°C
Attendees:	Sean MacKellar	Relative Humidity:	27.4%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mb
Tested By:	Harry Zhao	Job Site:	NC05
Power:	Power over USB	Configuration:	SMTE0016-8

TEST PARAMETERS

Run #:	45	Line:	Neutral	Add. Ext. Attenuation (dB):	0
--------	----	-------	---------	-----------------------------	---

COMMENTS

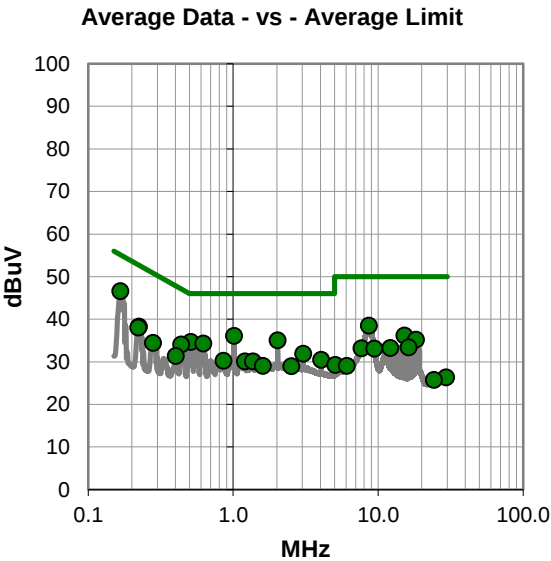
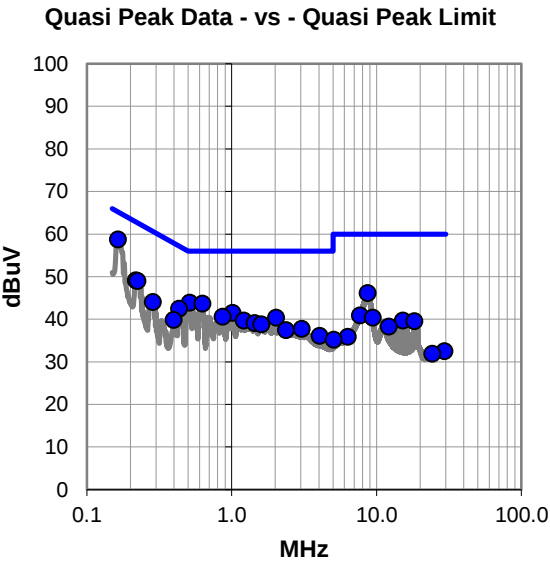
Laptop PSU connected 120V/60Hz AC.

EUT OPERATING MODES

Polling mode

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #45

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.164	38.8	20.0	58.8	65.3	-6.5
0.512	24.3	19.6	43.9	56.0	-12.1
0.628	24.1	19.6	43.7	56.0	-12.3
0.219	29.4	19.8	49.2	62.9	-13.7
0.223	29.2	19.8	49.0	62.7	-13.7
8.687	26.2	20.0	46.2	60.0	-13.8
1.012	21.8	19.7	41.5	56.0	-14.5
0.434	22.8	19.7	42.5	57.2	-14.7
0.864	20.9	19.7	40.6	56.0	-15.4
2.025	20.6	19.8	40.4	56.0	-15.6
1.212	20.0	19.7	39.7	56.0	-16.3
0.286	24.4	19.7	44.1	60.6	-16.5
1.444	19.4	19.7	39.1	56.0	-16.9
1.600	19.1	19.7	38.8	56.0	-17.2
0.397	20.2	19.7	39.9	57.9	-18.0
3.037	17.9	19.9	37.8	56.0	-18.2
2.378	17.7	19.8	37.5	56.0	-18.5
7.697	20.9	20.0	40.9	60.0	-19.1
9.396	20.3	20.1	40.4	60.0	-19.6
4.048	16.2	19.9	36.1	56.0	-19.9
15.190	19.1	20.6	39.7	60.0	-20.3
18.229	18.7	20.9	39.6	60.0	-20.4
12.143	18.0	20.3	38.3	60.0	-21.7
6.320	15.9	20.0	35.9	60.0	-24.1
5.065	15.3	19.9	35.2	60.0	-24.8

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.167	26.7	19.9	46.6	55.1	-8.5
1.012	16.4	19.7	36.1	46.0	-9.9
2.025	15.3	19.8	35.1	46.0	-10.9
0.510	15.1	19.6	34.7	46.0	-11.3
8.641	18.5	20.0	38.5	50.0	-11.5
0.620	14.7	19.6	34.3	46.0	-11.7
0.438	14.4	19.7	34.1	47.1	-13.0
15.190	15.6	20.6	36.2	50.0	-13.8
3.038	12.0	19.9	31.9	46.0	-14.1
0.223	18.5	19.8	38.3	52.7	-14.4
0.222	18.3	19.8	38.1	52.8	-14.7
18.229	14.3	20.9	35.2	50.0	-14.8
4.051	10.6	19.9	30.5	46.0	-15.5
0.858	10.6	19.7	30.3	46.0	-15.7
1.201	10.4	19.7	30.1	46.0	-15.9
1.366	10.4	19.7	30.1	46.0	-15.9
0.280	14.8	19.7	34.5	50.8	-16.3
0.400	11.7	19.7	31.4	47.8	-16.4
16.201	12.6	20.8	33.4	50.0	-16.6
12.152	13.0	20.3	33.3	50.0	-16.7
7.692	13.2	20.0	33.2	50.0	-16.8
1.598	9.4	19.7	29.1	46.0	-16.9
9.396	13.0	20.1	33.1	50.0	-16.9
2.517	9.2	19.8	29.0	46.0	-17.0
5.062	9.4	19.9	29.3	50.0	-20.7

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal (WPT)	Date:	2026-01-22
Customer:	SMART Technologies ULC	Temperature:	20.9°C
Attendees:	Sean MacKellar	Relative Humidity:	27.4%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mb
Tested By:	Harry Zhao	Job Site:	NC05
Power:	Power over USB	Configuration:	SMTE0016-9

TEST PARAMETERS

Run #:	52	Line:	High Line	Add. Ext. Attenuation (dB):	0
--------	----	-------	-----------	-----------------------------	---

COMMENTS

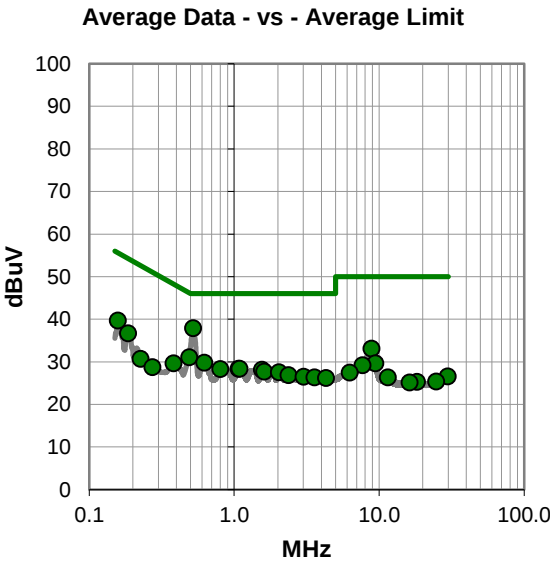
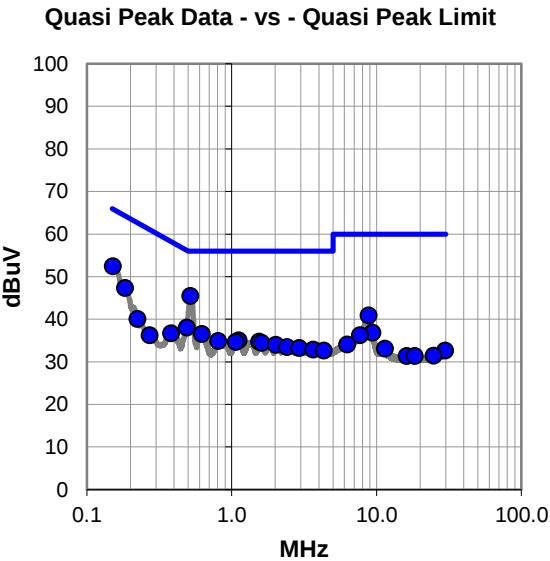
Engineering load Multistylus sample docked on docking station. Laptop PSU connected 120V/60Hz AC.

EUT OPERATING MODES

Max Charging mode

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #52

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.519	25.9	19.6	45.5	56.0	-10.5
0.152	32.4	20.1	52.5	65.9	-13.4
0.184	27.5	19.9	47.4	64.3	-16.9
0.489	18.5	19.6	38.1	56.2	-18.1
8.809	20.9	20.0	40.9	60.0	-19.1
0.623	17.0	19.6	36.6	56.0	-19.4
1.114	15.4	19.7	35.1	56.0	-20.9
0.808	15.3	19.6	34.9	56.0	-21.1
1.549	15.1	19.7	34.8	56.0	-21.2
1.069	15.0	19.7	34.7	56.0	-21.3
0.382	17.0	19.7	36.7	58.2	-21.5
1.610	14.8	19.7	34.5	56.0	-21.5
2.015	14.2	19.8	34.0	56.0	-22.0
2.408	13.7	19.8	33.5	56.0	-22.5
0.223	20.3	19.8	40.1	62.7	-22.6
2.921	13.5	19.8	33.3	56.0	-22.7
3.653	13.0	19.9	32.9	56.0	-23.1
9.393	16.8	20.1	36.9	60.0	-23.1
4.314	12.8	19.9	32.7	56.0	-23.3
7.687	16.3	20.0	36.3	60.0	-23.7
0.272	16.6	19.7	36.3	61.1	-24.8
6.253	14.1	20.0	34.1	60.0	-25.9
11.446	13.0	20.1	33.1	60.0	-26.9
29.752	10.7	22.0	32.7	60.0	-27.3
24.749	10.2	21.3	31.5	60.0	-28.5

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.519	18.3	19.6	37.9	46.0	-8.1
0.489	11.5	19.6	31.1	46.2	-15.1
0.158	19.6	20.1	39.7	55.6	-15.9
0.623	10.2	19.6	29.8	46.0	-16.2
8.859	13.1	20.0	33.1	50.0	-16.9
0.185	16.8	19.9	36.7	54.3	-17.6
1.073	8.7	19.7	28.4	46.0	-17.6
1.085	8.7	19.7	28.4	46.0	-17.6
0.802	8.7	19.6	28.3	46.0	-17.7
1.554	8.5	19.7	28.2	46.0	-17.8
1.610	8.0	19.7	27.7	46.0	-18.3
2.037	7.8	19.8	27.6	46.0	-18.4
0.382	10.0	19.7	29.7	48.2	-18.5
2.365	7.1	19.8	26.9	46.0	-19.1
3.009	6.6	19.9	26.5	46.0	-19.5
3.586	6.5	19.9	26.4	46.0	-19.6
4.286	6.3	19.9	26.2	46.0	-19.8
9.393	9.6	20.1	29.7	50.0	-20.3
7.692	9.2	20.0	29.2	50.0	-20.8
0.226	10.9	19.8	30.7	52.6	-21.9
0.272	9.1	19.7	28.8	51.1	-22.3
6.253	7.5	20.0	27.5	50.0	-22.5
29.751	4.6	22.0	26.6	50.0	-23.4
11.497	6.3	20.1	26.4	50.0	-23.6
24.751	4.1	21.3	25.4	50.0	-24.6

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal (WPT)	Date:	2026-01-22
Customer:	SMART Technologies ULC	Temperature:	20.9°C
Attendees:	Sean MacKellar	Relative Humidity:	27.4%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mb
Tested By:	Harry Zhao	Job Site:	NC05
Power:	Power over USB	Configuration:	SMTE0016-9

TEST PARAMETERS

Run #:	53	Line:	Neutral	Add. Ext. Attenuation (dB):	0
--------	----	-------	---------	-----------------------------	---

COMMENTS

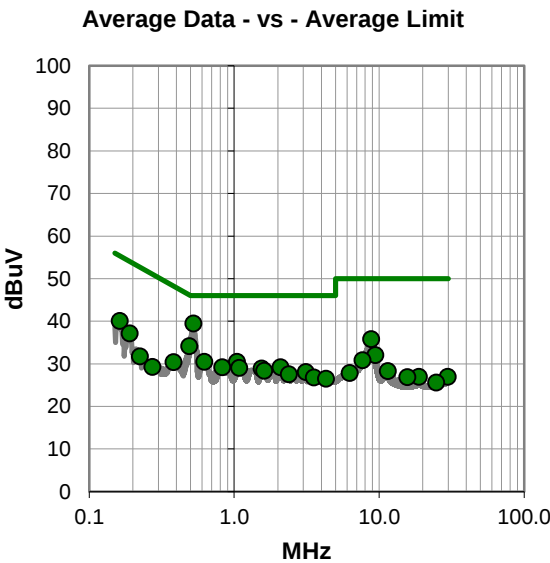
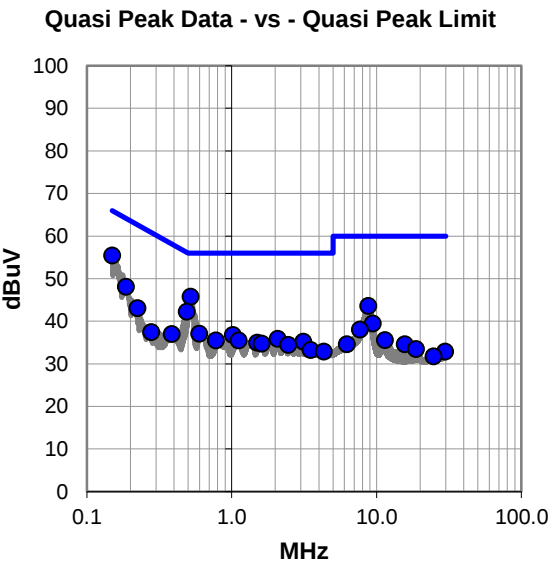
Engineering load Multistylus sample docked on docking station. Laptop PSU connected 120V/60Hz AC.

EUT OPERATING MODES

Max Charging mode

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #53

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.521	26.2	19.6	45.8	56.0	-10.2
0.150	35.3	20.2	55.5	66.0	-10.5
0.489	22.7	19.6	42.3	56.2	-13.9
0.187	28.2	19.9	48.1	64.2	-16.1
8.778	23.6	20.0	43.6	60.0	-16.4
0.599	17.5	19.6	37.1	56.0	-18.9
1.020	17.1	19.7	36.8	56.0	-19.2
0.223	23.3	19.8	43.1	62.7	-19.6
2.082	16.1	19.8	35.9	56.0	-20.1
0.777	15.9	19.6	35.5	56.0	-20.5
1.119	15.8	19.7	35.5	56.0	-20.5
9.406	19.4	20.1	39.5	60.0	-20.5
3.125	15.3	19.9	35.2	56.0	-20.8
1.500	15.3	19.7	35.0	56.0	-21.0
0.385	17.3	19.7	37.0	58.2	-21.2
1.613	15.1	19.7	34.8	56.0	-21.2
2.452	14.7	19.8	34.5	56.0	-21.5
7.684	18.1	20.0	38.1	60.0	-21.9
3.510	13.4	19.9	33.3	56.0	-22.7
4.315	13.0	19.9	32.9	56.0	-23.1
0.278	17.8	19.7	37.5	60.9	-23.4
11.447	15.5	20.1	35.6	60.0	-24.4
6.238	14.6	20.0	34.6	60.0	-25.4
15.640	14.0	20.6	34.6	60.0	-25.4
18.753	12.6	20.9	33.5	60.0	-26.5

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.522	19.9	19.6	39.5	46.0	-6.5
0.489	14.6	19.6	34.2	46.2	-12.0
8.810	15.8	20.0	35.8	50.0	-14.2
0.162	20.1	20.0	40.1	55.4	-15.3
0.621	10.9	19.6	30.5	46.0	-15.5
1.043	10.8	19.7	30.5	46.0	-15.5
0.824	9.6	19.6	29.2	46.0	-16.8
2.082	9.4	19.8	29.2	46.0	-16.8
0.190	17.3	19.9	37.2	54.1	-16.9
1.082	9.4	19.7	29.1	46.0	-16.9
1.546	9.2	19.7	28.9	46.0	-17.1
1.613	8.7	19.7	28.4	46.0	-17.6
0.382	10.7	19.7	30.4	48.2	-17.8
3.125	8.2	19.9	28.1	46.0	-17.9
9.396	12.0	20.1	32.1	50.0	-17.9
2.379	7.8	19.8	27.6	46.0	-18.4
7.684	10.9	20.0	30.9	50.0	-19.1
3.537	6.9	19.9	26.8	46.0	-19.2
4.299	6.6	19.9	26.5	46.0	-19.5
0.223	12.0	19.8	31.8	52.7	-20.9
11.442	8.2	20.1	28.3	50.0	-21.7
0.272	9.6	19.7	29.3	51.1	-21.8
6.247	7.9	20.0	27.9	50.0	-22.1
18.753	6.1	20.9	27.0	50.0	-23.0
29.751	5.0	22.0	27.0	50.0	-23.0

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal (WPT)	Date:	2026-01-26
Customer:	SMART Technologies ULC	Temperature:	22.7°C
Attendees:	Sean MacKellar	Relative Humidity:	26.4%
Customer Project:	None	Bar. Pressure (PMSL):	1023 mb
Tested By:	Harry Zhao	Job Site:	NC05
Power:	Power over USB	Configuration:	SMTE0016-12

TEST PARAMETERS

Run #:	67	Line:	High Line	Add. Ext. Attenuation (dB):	0
--------	----	-------	-----------	-----------------------------	---

COMMENTS

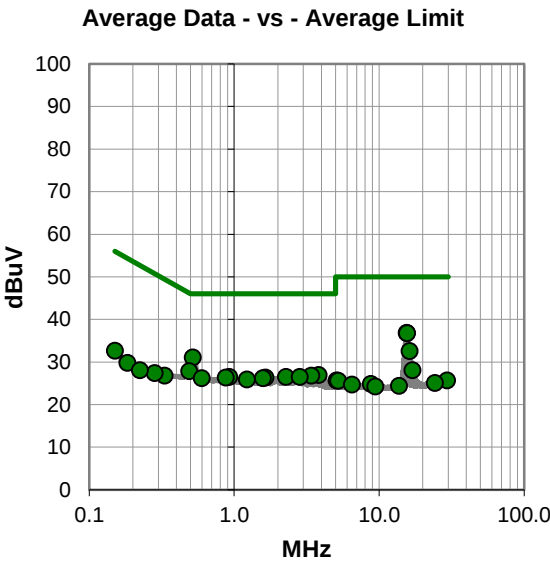
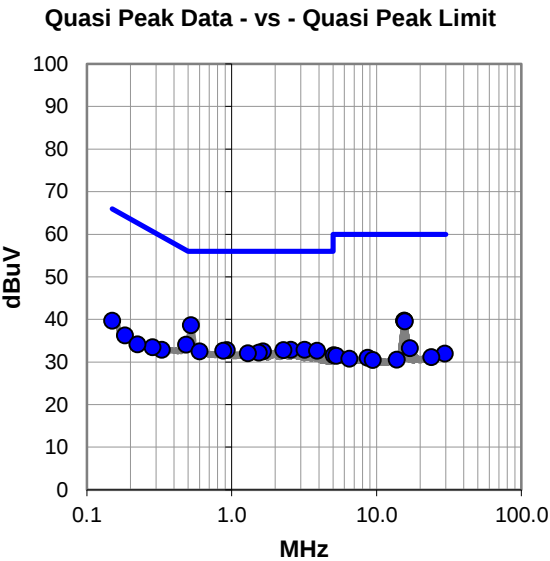
Engineering load Multistylus sample docked on docking station. DC Power Supply connected 120V/60Hz AC.
--

EUT OPERATING MODES

Max Charging mode

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #67

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.522	19.1	19.6	38.7	56.0	-17.3
15.509	19.1	20.6	39.7	60.0	-20.3
15.579	19.1	20.6	39.7	60.0	-20.3
15.649	19.0	20.6	39.6	60.0	-20.4
0.486	14.5	19.6	34.1	56.2	-22.1
2.555	13.1	19.8	32.9	56.0	-23.1
3.186	13.0	19.9	32.9	56.0	-23.1
0.925	13.1	19.7	32.8	56.0	-23.2
2.274	13.0	19.8	32.8	56.0	-23.2
0.875	13.0	19.7	32.7	56.0	-23.3
3.885	12.8	19.9	32.7	56.0	-23.3
0.600	12.9	19.6	32.5	56.0	-23.5
1.647	12.8	19.7	32.5	56.0	-23.5
1.542	12.5	19.7	32.2	56.0	-23.8
1.294	12.4	19.7	32.1	56.0	-23.9
0.150	19.5	20.2	39.7	66.0	-26.3
0.330	13.2	19.7	32.9	59.5	-26.6
16.980	12.5	20.8	33.3	60.0	-26.7
0.284	13.8	19.7	33.5	60.7	-27.2
0.184	16.4	19.9	36.3	64.3	-28.0
29.535	10.0	22.0	32.0	60.0	-28.0
5.075	11.7	19.9	31.6	60.0	-28.4
0.223	14.4	19.8	34.2	62.7	-28.5
5.286	11.6	19.9	31.5	60.0	-28.5
23.950	9.9	21.3	31.2	60.0	-28.8

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
15.509	16.3	20.6	36.9	50.0	-13.1
15.579	16.2	20.6	36.8	50.0	-13.2
0.518	11.5	19.6	31.1	46.0	-14.9
16.209	11.8	20.8	32.6	50.0	-17.4
0.489	8.3	19.6	27.9	46.2	-18.3
3.817	7.1	19.9	27.0	46.0	-19.0
3.395	6.9	19.9	26.8	46.0	-19.2
0.925	6.8	19.7	26.5	46.0	-19.5
2.275	6.7	19.8	26.5	46.0	-19.5
2.834	6.7	19.8	26.5	46.0	-19.5
0.875	6.7	19.7	26.4	46.0	-19.6
1.645	6.7	19.7	26.4	46.0	-19.6
0.597	6.6	19.6	26.2	46.0	-19.8
1.577	6.5	19.7	26.2	46.0	-19.8
1.224	6.2	19.7	25.9	46.0	-20.1
16.980	7.3	20.8	28.1	50.0	-21.9
0.330	7.1	19.7	26.8	49.5	-22.7
0.150	12.5	20.2	32.7	56.0	-23.3
0.283	7.7	19.7	27.4	50.7	-23.3
5.077	5.8	19.9	25.7	50.0	-24.3
29.462	3.7	22.0	25.7	50.0	-24.3
5.216	5.7	19.9	25.6	50.0	-24.4
0.184	9.9	19.9	29.8	54.3	-24.5
0.223	8.3	19.8	28.1	52.7	-24.6
24.271	3.8	21.3	25.1	50.0	-24.9

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal (WPT)	Date:	2026-01-26
Customer:	SMART Technologies ULC	Temperature:	22.7°C
Attendees:	Sean MacKellar	Relative Humidity:	26.4%
Customer Project:	None	Bar. Pressure (PMSL):	1023 mb
Tested By:	Harry Zhao	Job Site:	NC05
Power:	Power over USB	Configuration:	SMTE0016-12

TEST PARAMETERS

Run #:	68	Line:	Neutral	Add. Ext. Attenuation (dB):	0
--------	----	-------	---------	-----------------------------	---

COMMENTS

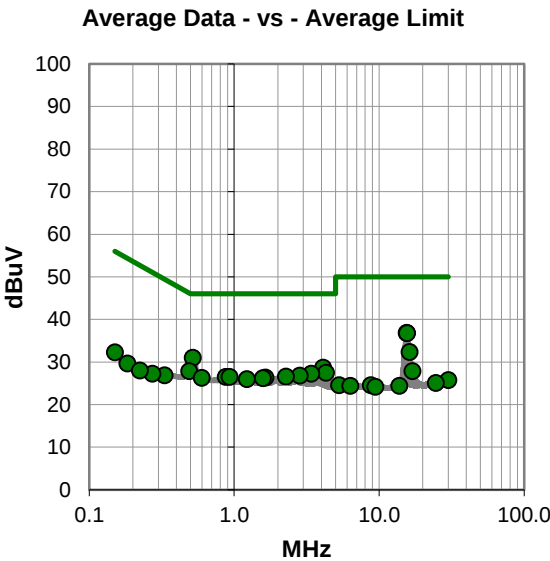
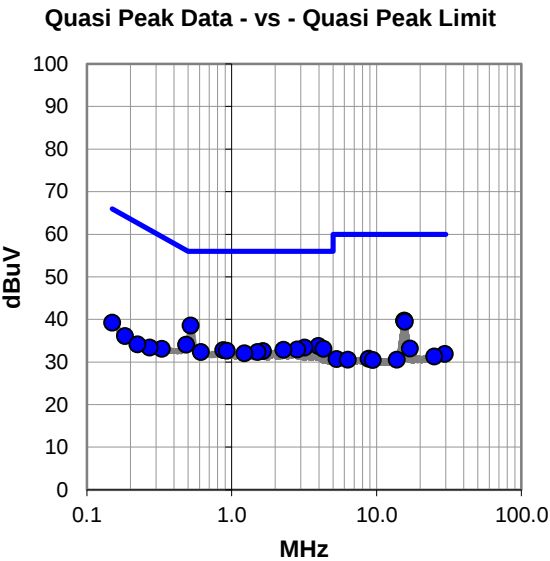
Engineering load Multistylus sample docked on docking station. DC Power Supply connected 120V/60Hz AC.
--

EUT OPERATING MODES

Max Charging mode

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #68

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.521	19.0	19.6	38.6	56.0	-17.4
15.509	19.1	20.6	39.7	60.0	-20.3
15.579	19.1	20.6	39.7	60.0	-20.3
15.649	18.9	20.6	39.5	60.0	-20.5
0.486	14.5	19.6	34.1	56.2	-22.1
3.957	13.9	19.9	33.8	56.0	-22.2
3.185	13.5	19.9	33.4	56.0	-22.6
4.306	13.2	19.9	33.1	56.0	-22.9
2.835	13.2	19.8	33.0	56.0	-23.0
2.275	13.1	19.8	32.9	56.0	-23.1
0.876	13.1	19.7	32.8	56.0	-23.2
0.927	13.0	19.7	32.7	56.0	-23.3
1.645	12.9	19.7	32.6	56.0	-23.4
0.614	12.8	19.6	32.4	56.0	-23.6
1.506	12.7	19.7	32.4	56.0	-23.6
1.226	12.4	19.7	32.1	56.0	-23.9
0.330	13.4	19.7	33.1	59.5	-26.4
0.150	19.1	20.2	39.3	66.0	-26.7
16.978	12.4	20.8	33.2	60.0	-26.8
0.272	13.7	19.7	33.4	61.1	-27.7
29.577	9.9	22.0	31.9	60.0	-28.1
0.184	16.2	19.9	36.1	64.3	-28.2
0.223	14.4	19.8	34.2	62.7	-28.5
25.034	10.0	21.3	31.3	60.0	-28.7
8.804	10.8	20.0	30.8	60.0	-29.2

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
15.509	16.3	20.6	36.9	50.0	-13.1
15.579	16.2	20.6	36.8	50.0	-13.2
0.518	11.4	19.6	31.0	46.0	-15.0
4.096	8.8	19.9	28.7	46.0	-17.3
16.209	11.6	20.8	32.4	50.0	-17.6
0.489	8.3	19.6	27.9	46.2	-18.3
4.306	7.6	19.9	27.5	46.0	-18.5
3.395	7.4	19.9	27.3	46.0	-18.7
2.834	7.0	19.8	26.8	46.0	-19.2
2.275	6.8	19.8	26.6	46.0	-19.4
0.875	6.8	19.7	26.5	46.0	-19.5
0.927	6.8	19.7	26.5	46.0	-19.5
1.645	6.7	19.7	26.4	46.0	-19.6
0.597	6.7	19.6	26.3	46.0	-19.7
1.577	6.5	19.7	26.2	46.0	-19.8
1.226	6.3	19.7	26.0	46.0	-20.0
16.980	7.1	20.8	27.9	50.0	-22.1
0.330	7.2	19.7	26.9	49.5	-22.6
0.150	12.1	20.2	32.3	56.0	-23.7
0.272	7.6	19.7	27.3	51.1	-23.8
29.999	3.8	22.0	25.8	50.0	-24.2
0.184	9.8	19.9	29.7	54.3	-24.6
0.223	8.2	19.8	28.0	52.7	-24.7
24.629	3.8	21.3	25.1	50.0	-24.9
5.287	4.7	19.9	24.6	50.0	-25.4

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal (WPT)	Date:	2026-01-26
Customer:	SMART Technologies ULC	Temperature:	22.7°C
Attendees:	Sean MacKellar	Relative Humidity:	26.4%
Customer Project:	None	Bar. Pressure (PMSL):	1023 mb
Tested By:	Harry Zhao	Job Site:	NC05
Power:	Power over USB	Configuration:	SMTE0016-11

TEST PARAMETERS

Run #:	72	Line:	High Line	Add. Ext. Attenuation (dB):	0
--------	----	-------	-----------	-----------------------------	---

COMMENTS

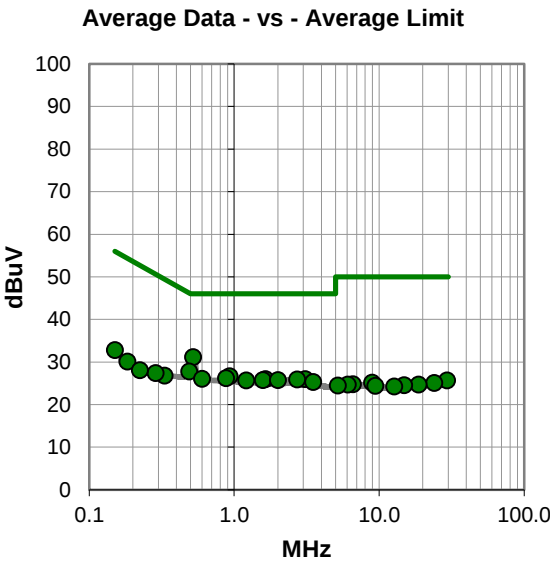
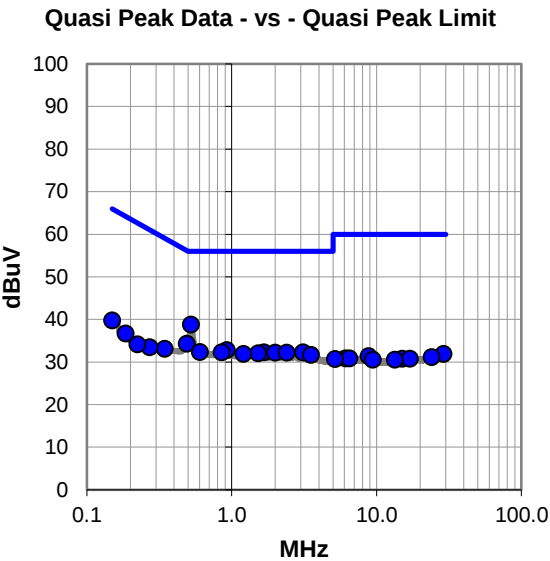
DC Power Supply connected 120V/60Hz AC.

EUT OPERATING MODES

Polling mode

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #72

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.522	19.2	19.6	38.8	56.0	-17.2
0.489	14.7	19.6	34.3	56.2	-21.9
0.927	13.1	19.7	32.8	56.0	-23.2
0.603	12.8	19.6	32.4	56.0	-23.6
0.855	12.6	19.7	32.3	56.0	-23.7
1.673	12.6	19.7	32.3	56.0	-23.7
3.110	12.4	19.9	32.3	56.0	-23.7
1.992	12.4	19.8	32.2	56.0	-23.8
2.394	12.4	19.8	32.2	56.0	-23.8
1.526	12.4	19.7	32.1	56.0	-23.9
1.204	12.2	19.7	31.9	56.0	-24.1
3.534	11.8	19.9	31.7	56.0	-24.3
0.345	13.4	19.7	33.1	59.1	-26.0
0.150	19.6	20.2	39.8	66.0	-26.2
0.185	16.8	19.9	36.7	64.3	-27.6
0.272	13.8	19.7	33.5	61.1	-27.6
28.948	10.0	21.9	31.9	60.0	-28.1
0.223	14.4	19.8	34.2	62.7	-28.5
8.826	11.4	20.0	31.4	60.0	-28.6
24.044	9.9	21.3	31.2	60.0	-28.8
6.108	10.9	20.0	30.9	60.0	-29.1
6.505	10.9	20.0	30.9	60.0	-29.1
15.053	10.2	20.6	30.8	60.0	-29.2
16.970	10.0	20.8	30.8	60.0	-29.2
5.178	10.8	19.9	30.7	60.0	-29.3

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.519	11.6	19.6	31.2	46.0	-14.8
0.489	8.2	19.6	27.8	46.2	-18.4
0.927	7.0	19.7	26.7	46.0	-19.3
0.876	6.5	19.7	26.2	46.0	-19.8
0.599	6.5	19.6	26.1	46.0	-19.9
1.645	6.3	19.7	26.0	46.0	-20.0
3.083	6.1	19.9	26.0	46.0	-20.0
2.712	6.1	19.8	25.9	46.0	-20.1
1.577	6.1	19.7	25.8	46.0	-20.2
2.004	6.0	19.8	25.8	46.0	-20.2
1.207	6.0	19.7	25.7	46.0	-20.3
3.508	5.4	19.9	25.3	46.0	-20.7
0.330	7.1	19.7	26.8	49.5	-22.7
0.150	12.6	20.2	32.8	56.0	-23.2
0.287	7.7	19.7	27.4	50.6	-23.2
0.184	10.2	19.9	30.1	54.3	-24.2
29.458	3.7	22.0	25.7	50.0	-24.3
0.223	8.3	19.8	28.1	52.7	-24.6
8.931	5.2	20.0	25.2	50.0	-24.8
24.003	3.8	21.3	25.1	50.0	-24.9
6.581	4.8	20.0	24.8	50.0	-25.2
6.085	4.7	20.0	24.7	50.0	-25.3
18.687	3.8	20.9	24.7	50.0	-25.3
14.842	4.0	20.6	24.6	50.0	-25.4
5.179	4.6	19.9	24.5	50.0	-25.5

CONCLUSION

Pass



Tested By

AC POWERLINE CONDUCTED EMISSIONS



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal (WPT)	Date:	2026-01-26
Customer:	SMART Technologies ULC	Temperature:	22.7°C
Attendees:	Sean MacKellar	Relative Humidity:	26.4%
Customer Project:	None	Bar. Pressure (PMSL):	1023 mb
Tested By:	Harry Zhao	Job Site:	NC05
Power:	Power over USB	Configuration:	SMTE0016-11

TEST PARAMETERS

Run #:	73	Line:	Neutral	Add. Ext. Attenuation (dB):	0
--------	----	-------	---------	-----------------------------	---

COMMENTS

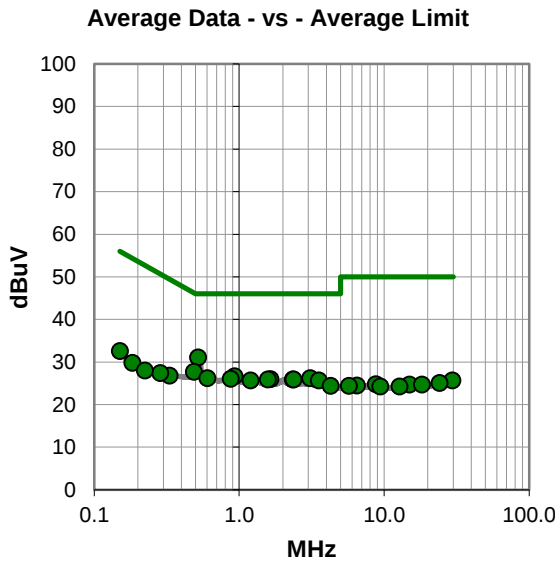
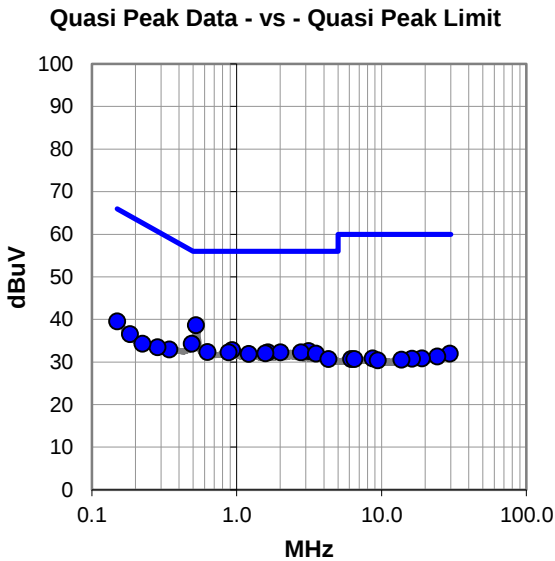
DC Power Supply connected 120V/60Hz AC.

EUT OPERATING MODES

Polling mode

DEVIATIONS FROM TEST STANDARD

None



AC POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #73

Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.522	19.1	19.6	38.7	56.0	-17.3
0.489	14.7	19.6	34.3	56.2	-21.9
0.928	13.1	19.7	32.8	56.0	-23.2
3.134	12.7	19.9	32.6	56.0	-23.4
0.628	12.8	19.6	32.4	56.0	-23.6
0.878	12.6	19.7	32.3	56.0	-23.7
1.647	12.6	19.7	32.3	56.0	-23.7
2.005	12.5	19.8	32.3	56.0	-23.7
2.780	12.5	19.8	32.3	56.0	-23.7
1.580	12.4	19.7	32.1	56.0	-23.9
3.534	12.1	19.9	32.0	56.0	-24.0
1.209	12.2	19.7	31.9	56.0	-24.1
4.299	10.8	19.9	30.7	56.0	-25.3
0.342	13.3	19.7	33.0	59.1	-26.1
0.150	19.4	20.2	39.6	66.0	-26.4
0.284	13.8	19.7	33.5	60.7	-27.2
0.184	16.7	19.9	36.6	64.3	-27.7
29.528	10.0	22.0	32.0	60.0	-28.0
0.223	14.5	19.8	34.3	62.7	-28.4
24.270	10.0	21.3	31.3	60.0	-28.7
8.687	10.9	20.0	30.9	60.0	-29.1
18.963	10.0	20.9	30.9	60.0	-29.1
16.211	10.0	20.8	30.8	60.0	-29.2
6.169	10.7	20.0	30.7	60.0	-29.3
6.502	10.7	20.0	30.7	60.0	-29.3

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.519	11.5	19.6	31.1	46.0	-14.9
0.487	8.1	19.6	27.7	46.2	-18.5
0.927	7.0	19.7	26.7	46.0	-19.3
0.602	6.6	19.6	26.2	46.0	-19.8
3.083	6.3	19.9	26.2	46.0	-19.8
0.875	6.4	19.7	26.1	46.0	-19.9
1.645	6.3	19.7	26.0	46.0	-20.0
1.578	6.2	19.7	25.9	46.0	-20.1
2.344	6.1	19.8	25.9	46.0	-20.1
2.369	6.1	19.8	25.9	46.0	-20.1
1.197	6.0	19.7	25.7	46.0	-20.3
3.533	5.8	19.9	25.7	46.0	-20.3
4.273	4.5	19.9	24.4	46.0	-21.6
0.330	7.1	19.7	26.8	49.5	-22.7
0.286	7.7	19.7	27.4	50.6	-23.2
0.150	12.4	20.2	32.6	56.0	-23.4
29.479	3.7	22.0	25.7	50.0	-24.3
0.184	9.9	19.9	29.8	54.3	-24.5
0.223	8.2	19.8	28.0	52.7	-24.7
24.088	3.8	21.3	25.1	50.0	-24.9
8.749	4.8	20.0	24.8	50.0	-25.2
14.911	4.1	20.6	24.7	50.0	-25.3
18.260	3.8	20.9	24.7	50.0	-25.3
6.499	4.5	20.0	24.5	50.0	-25.5
5.715	4.5	19.9	24.4	50.0	-25.6

CONCLUSION

Pass



Tested By

FIELD STRENGTH OF FUNDAMENTAL

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified.

The fundamental carrier of the EUT was maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna polarization (per ANSI C63.10). A calibrated active loop antenna was used for this test in order to provide sufficient measurement sensitivity. The reference point of the loop antenna was maintained at 1m above the ground plane during the testing.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector
PK = Peak Detector
AV = CISPR Average Detector

As outlined in 15.209(e), 15.31(f)(2), and RSS-GEN, 6.5, measurements may be performed at a distance closer than what is specified with the limit. The limit at the specified distance is shown on the data sheet. Measurements are made at a closer distance and the data is adjusted using a distance correction factor of 40dB/decade for comparison to the limit.

The limits in CFR 47, Part 15C 15.209(a) are identical to those in RSS-Gen section 8.9 Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ohms. For example, an E-Field measurement in dBuV/m can be converted to dBuA/m via the following formula: dBuV/m - 51.5 dB = dBuA/m. E-Field measurements have the same margin in dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limits

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFE	2025-01-16	2026-01-16
Antenna - Loop	EMCO	6502	AOA	2024-10-23	2026-10-23
Cable	N/A	Bilog Cables	EVA	2025-10-24	2026-10-24

FREQUENCY RANGE INVESTIGATED

9 kHz TO 30 MHz

POWER INVESTIGATED

USB-C

CONFIGURATIONS INVESTIGATED

SMTE0016-1
SMTE0016-3

MODES INVESTIGATED

Polling mode
Max Charging mode

FIELD STRENGTH OF FUNDAMENTAL



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal	Date:	2026-01-09
Customer:	SMART Technologies ULC	Temperature:	21.3°C
Attendees:	Sean MacKellar	Relative Humidity:	35.6%
Customer Project:	None	Bar. Pressure (PMSL):	1032 mb
Tested By:	Christopher Pinkham, Jeff Alcock	Job Site:	EV01
Power:	USB-C	Configuration:	SMTE0016-1

TEST PARAMETERS

Run #:	5	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
--------	---	--------------------	---	---------------------	-----------

COMMENTS

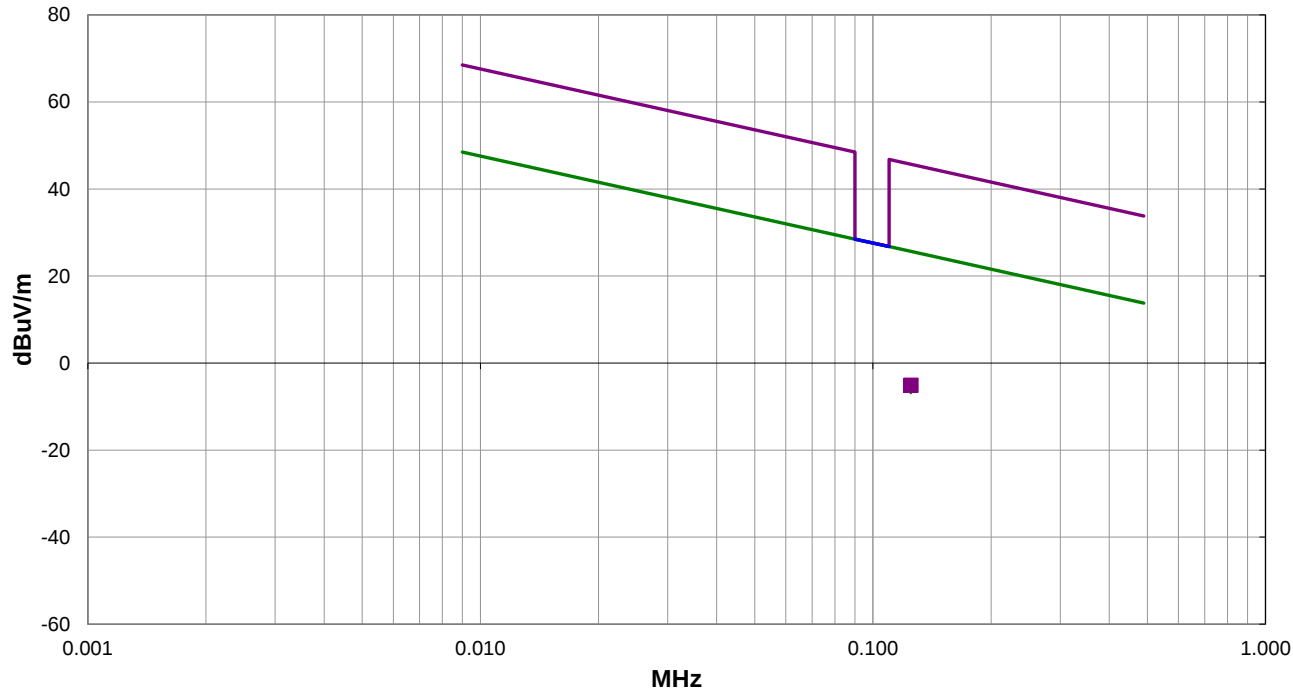
Using the worst case orientation determined from previous testing. See data comments for EUT orientation.

EUT OPERATING MODES

Polling mode

DEVIATIONS FROM TEST STANDARD

None



Run #: 5

PK AV QP

FIELD STRENGTH OF FUNDAMENTAL

RESULTS - Run #5

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.125	63.2	11.3	1.0	0.0	3.0	0.0	Horz	AV	-80.0	-5.5	25.7	-31.2	EUT On Side
0.125	63.5	11.4	1.0	0.0	3.0	0.0	Horz	PK	-80.0	-5.1	45.7	-50.8	EUT On Side

CONCLUSION
Pass


Tested By

FIELD STRENGTH OF FUNDAMENTAL



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal	Date:	2026-01-07
Customer:	SMART Technologies ULC	Temperature:	20.6°C
Attendees:	Sean MacKellar	Relative Humidity:	37.1%
Customer Project:	None	Bar. Pressure (PMSL):	1010 mb
Tested By:	Christopher Pinkham, Jeff Alcock	Job Site:	EV11
Power:	USB-C	Configuration:	SMTE0016-3

TEST PARAMETERS

Run #:	15	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
--------	----	--------------------	---	---------------------	-----------

COMMENTS

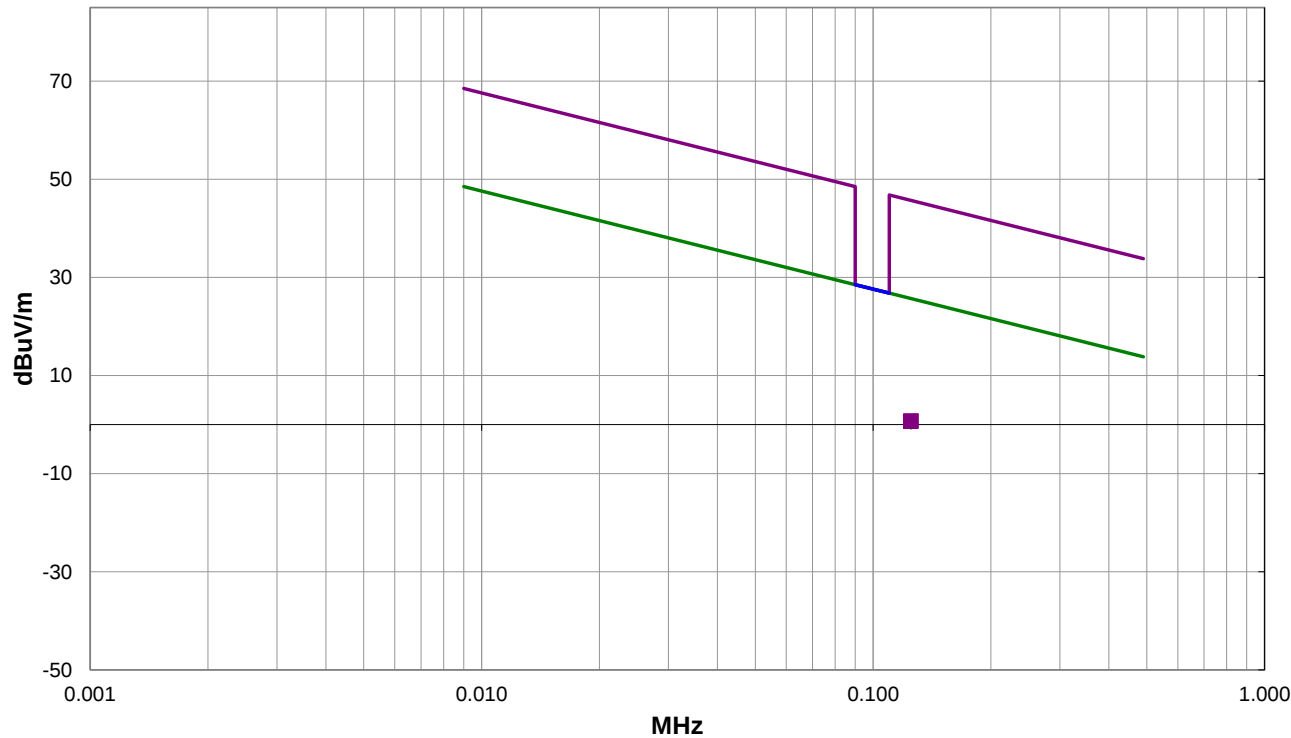
See Comments column below for EUT orientation

EUT OPERATING MODES

Max Charging mode

DEVIATIONS FROM TEST STANDARD

None



Run #: 15

■ PK ◆ AV ● QP

FIELD STRENGTH OF FUNDAMENTAL

RESULTS - Run #15

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.125	69.3	11.2	1.0	37.0	3.0	0.0	Par EUT	AV	-80.0	0.5	25.7	-25.2	EUT On Side
0.125	69.5	11.2	1.0	37.0	3.0	0.0	Par EUT	PK	-80.0	0.7	45.7	-45.0	EUT On Side

CONCLUSION
Pass


Tested By

SPURIOUS RADIATED EMISSIONS (LESS THAN 30MHZ)



TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was continuously transmitting while set to the channel specified.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. A reference preview scan (pre-scan) is included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height (where applicable) and polarization (per ANSI C63.10). A calibrated active loop antenna was used for this test in order to provide sufficient measurement sensitivity. The reference point of the loop antenna was maintained at 1m above the ground plane during the testing.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector
PK = Peak Detector
AV = CISPR Average Detector

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

As outlined in 15.209(e), 15.31(f)(2), and RSS-GEN, 6.5, measurements may be performed at a distance closer than what is specified with the limit. The limit at the specified distance is shown on the data sheet. Measurements are made at a closer distance and the data is adjusted using a distance correction factor of 40dB/decade for comparison to the limit.

The limits in CFR 47, Part 15C 15.209(a) are identical to those in RSS-Gen section 8.9 Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ohms. For example, an E-Field measurement in dBuV/m can be converted to dBuA/m via the following formula: dBuV/m - 51.5 dB = dBuA/m. E-Field measurements have the same margin in dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limits

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFE	2025-01-16	2026-01-16
Antenna - Loop	EMCO	6502	AOA	2024-10-23	2026-10-23
Cable	N/A	Bilog Cables	EVA	2025-10-24	2026-10-24

FREQUENCY RANGE INVESTIGATED

9 kHz TO 30 MHz

POWER INVESTIGATED

USB-C

CONFIGURATIONS INVESTIGATED

SMTE0016-1
SMTE0016-3

MODES INVESTIGATED

Polling mode
Max Charging mode

SPURIOUS RADIATED EMISSIONS (LESS THAN 30MHZ)



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal	Date:	2026-01-09
Customer:	SMART Technologies ULC	Temperature:	21.3°C
Attendees:	Sean MacKellar	Relative Humidity:	35.6%
Customer Project:	None	Bar. Pressure (PMSL):	1032 mb
Tested By:	Christopher Pinkham, Jeff Alcock	Job Site:	EV01
Power:	USB-C	Configuration:	SMTE0016-1

TEST PARAMETERS

Run #:	5	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
--------	---	--------------------	---	---------------------	-----------

COMMENTS

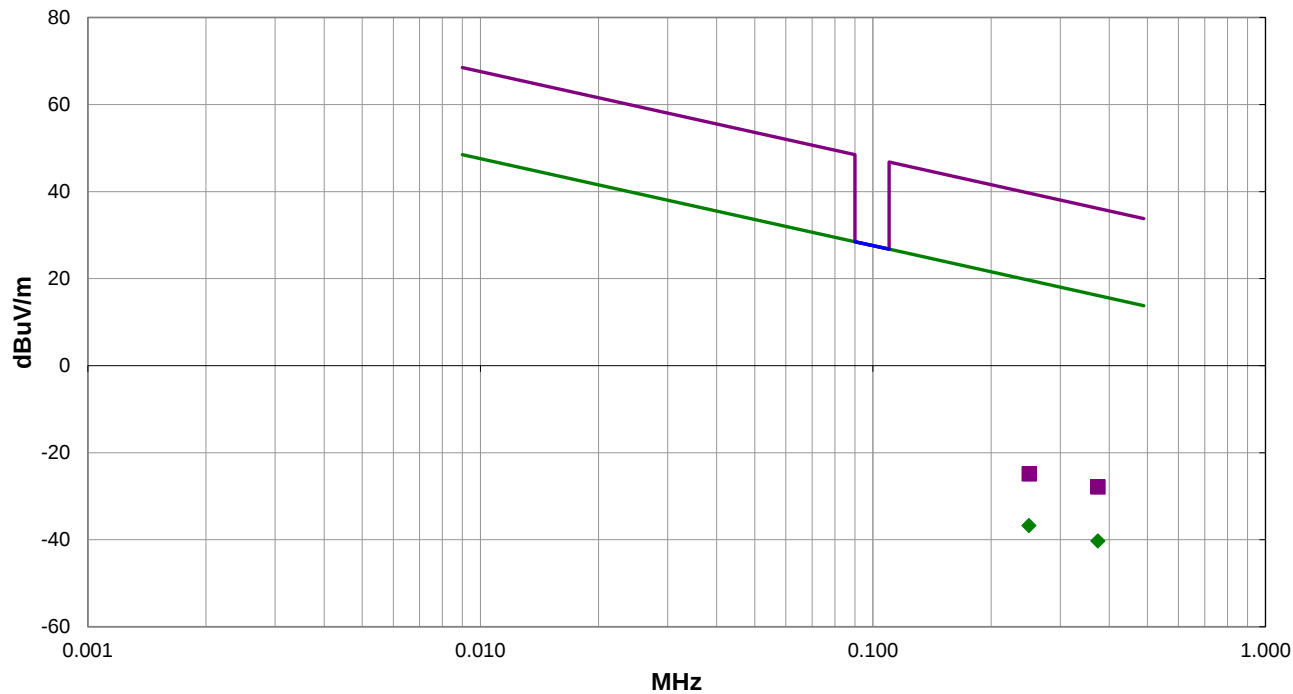
All emissions other than the fundamental were noise floor. Using the worst-case orientation determined from previous testing.

EUT OPERATING MODES

Polling mode

DEVIATIONS FROM TEST STANDARD

None



Run #: 5

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS (LESS THAN 30MHZ)



RESULTS - Run #5

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.374	28.9	10.8	1.0	270.0	3.0	0.0	Horz	AV	-80.0	-40.3	16.1	-56.4	EUT On Side
0.250	32.4	10.8	1.0	315.0	3.0	0.0	Horz	AV	-80.0	-36.8	19.7	-56.5	EUT On Side
0.374	41.3	10.8	1.0	270.0	3.0	0.0	Horz	PK	-80.0	-27.9	36.1	-64.0	EUT On Side
0.250	44.3	10.8	1.0	315.0	3.0	0.0	Horz	PK	-80.0	-24.9	39.7	-64.6	EUT On Side

CONCLUSION

Pass


Tested By

SPURIOUS RADIATED EMISSIONS (LESS THAN 30MHZ)



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal	Date:	2026-01-09
Customer:	SMART Technologies ULC	Temperature:	21.3°C
Attendees:	Sean MacKellar	Relative Humidity:	35.6%
Customer Project:	None	Bar. Pressure (PMSL):	1032 mb
Tested By:	Christopher Pinkham, Jeff Alcock	Job Site:	EV01
Power:	USB-C	Configuration:	SMTE0016-1

TEST PARAMETERS

Run #:	6	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
--------	---	--------------------	---	---------------------	-----------

COMMENTS

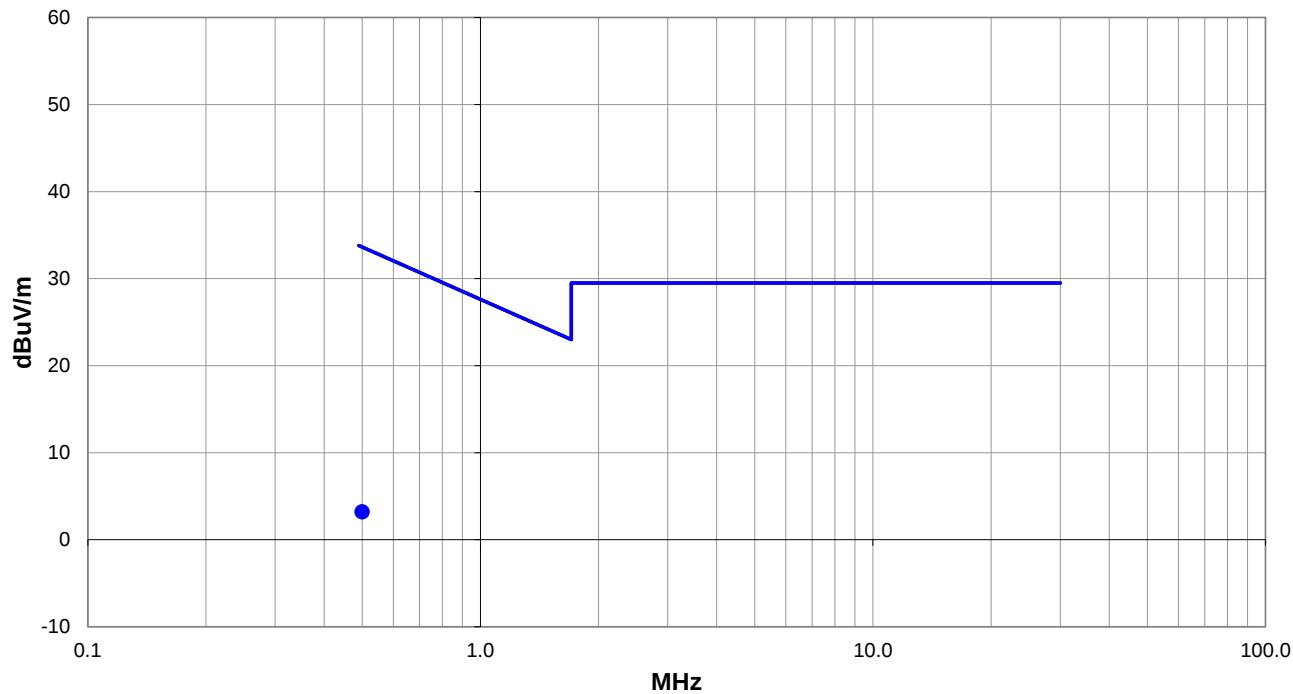
All emissions other than the fundamental were noise floor. Using the worst-case orientation determined from previous testing.

EUT OPERATING MODES

Polling mode

DEVIATIONS FROM TEST STANDARD

None



Run #: 6

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS (LESS THAN 30MHZ)

RESULTS - Run #6

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.500	32.4	10.8	1.0	360.0	3.0	0.0	Horz	QP	-40.0	3.2	33.6	-30.4	EUT On Side

CONCLUSION
Pass


Tested By

SPURIOUS RADIATED EMISSIONS (LESS THAN 30MHZ)



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal	Date:	2026-01-07
Customer:	SMART Technologies ULC	Temperature:	20.6°C
Attendees:	Sean MacKellar	Relative Humidity:	37.1%
Customer Project:	None	Bar. Pressure (PMSL):	1010 mb
Tested By:	Christopher Pinkham, Jeff Alcock	Job Site:	EV11
Power:	USB-C	Configuration:	SMTE0016-3

TEST PARAMETERS

Run #:	15	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
--------	----	--------------------	---	---------------------	-----------

COMMENTS

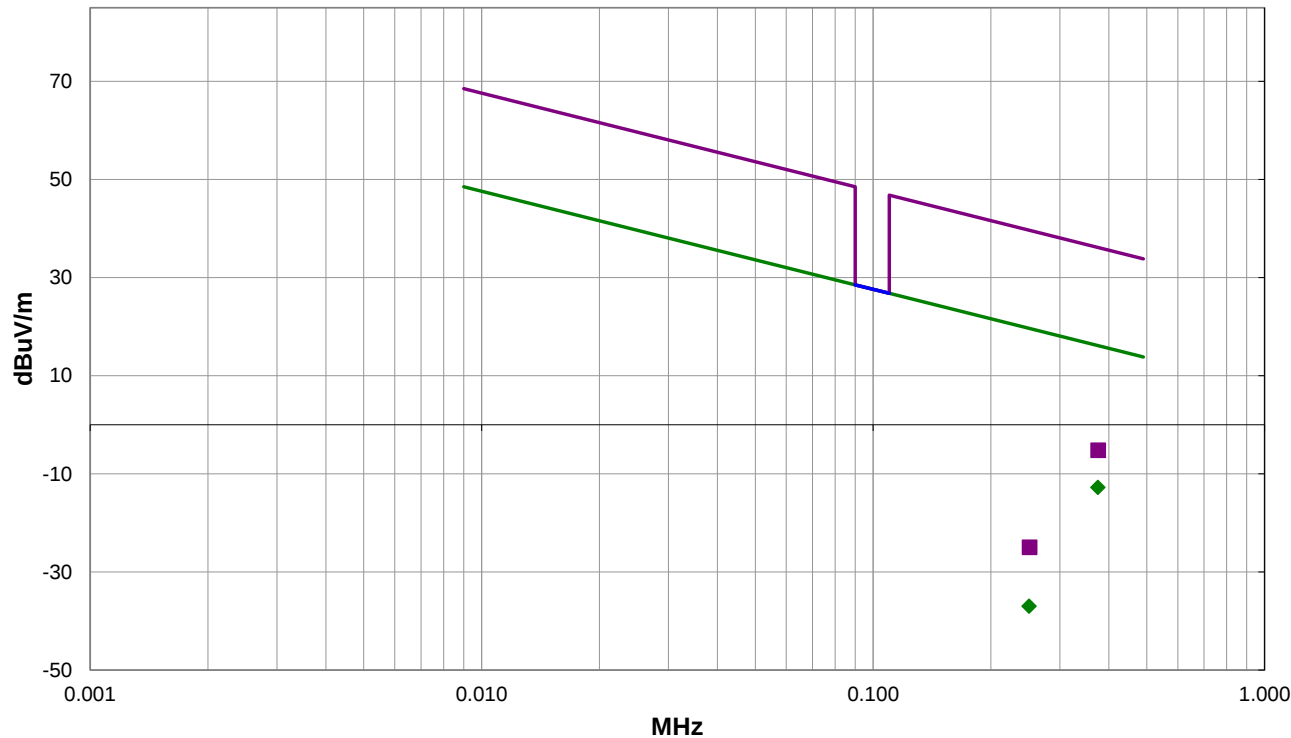
All emissions other than the fundamental were noise floor. See comments column below for EUT orientation

EUT OPERATING MODES

Max Charging mode

DEVIATIONS FROM TEST STANDARD

None



Run #: 15

PK AV QP

SPURIOUS RADIATED EMISSIONS (LESS THAN 30MHZ)



RESULTS - Run #15

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.250	32.3	10.7	1.0	0.0	3.0	0.0	Par EUT	AV	-80.0	-37.0	19.6	-56.6	EUT On Side
0.251	44.3	10.7	1.0	0.0	3.0	0.0	Par EUT	PK	-80.0	-25.0	39.6	-64.6	EUT On Side
0.375	35.6	10.7	1.0	45.0	10.0	0.0	Par EUT	AV	-59.1	-12.8	16.1	-28.9	EUT On Side
0.376	43.2	10.7	1.0	45.0	10.0	0.0	Par EUT	PK	-59.1	-5.2	36.1	-41.3	EUT On Side

CONCLUSION

Pass


Tested By

SPURIOUS RADIATED EMISSIONS (LESS THAN 30MHZ)



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal	Date:	2026-01-07
Customer:	SMART Technologies ULC	Temperature:	20.6°C
Attendees:	Sean MacKellar	Relative Humidity:	37.1%
Customer Project:	None	Bar. Pressure (PMSL):	1010 mb
Tested By:	Christopher Pinkham, Jeff Alcock	Job Site:	EV11
Power:	USB-C	Configuration:	SMTE0016-3

TEST PARAMETERS

Run #:	17	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
--------	----	--------------------	---	---------------------	-----------

COMMENTS

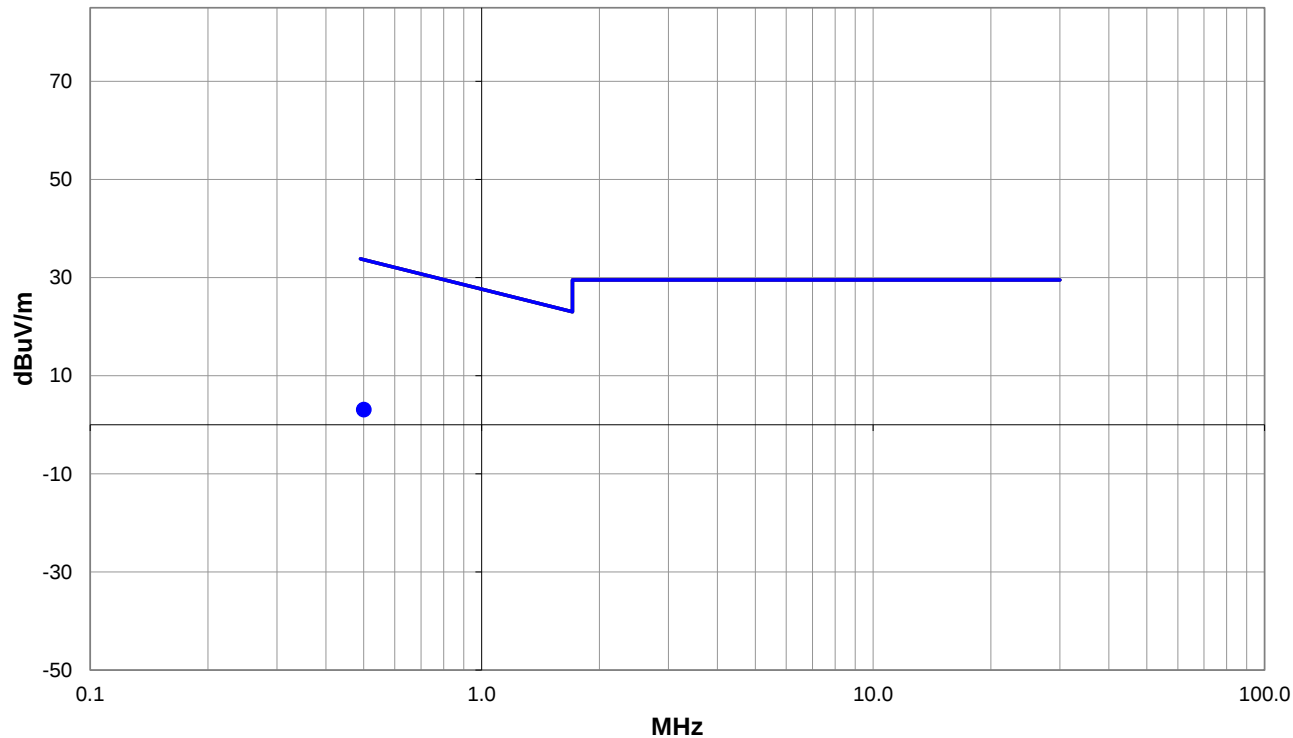
All emissions other than the fundamental were noise floor. See comments column below for EUT orientation.

EUT OPERATING MODES

Max Charging mode

DEVIATIONS FROM TEST STANDARD

None



Run #: 17

PK AV QP

SPURIOUS RADIATED EMISSIONS (LESS THAN 30MHZ)

RESULTS - Run #17

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
0.500	32.4	10.7	1.0	95.0	3.0	0.0	Par EUT	QP	-40.0	3.1	33.6	-30.5	EUT On Side

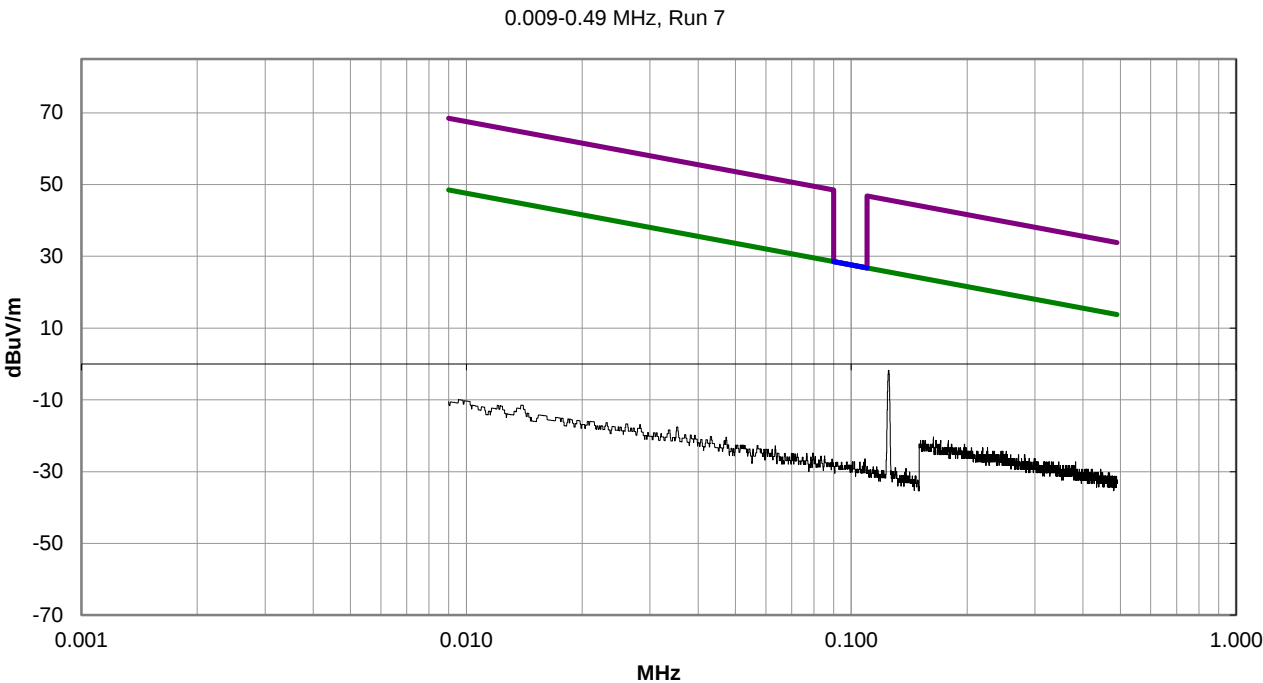
CONCLUSION
Pass


Tested By

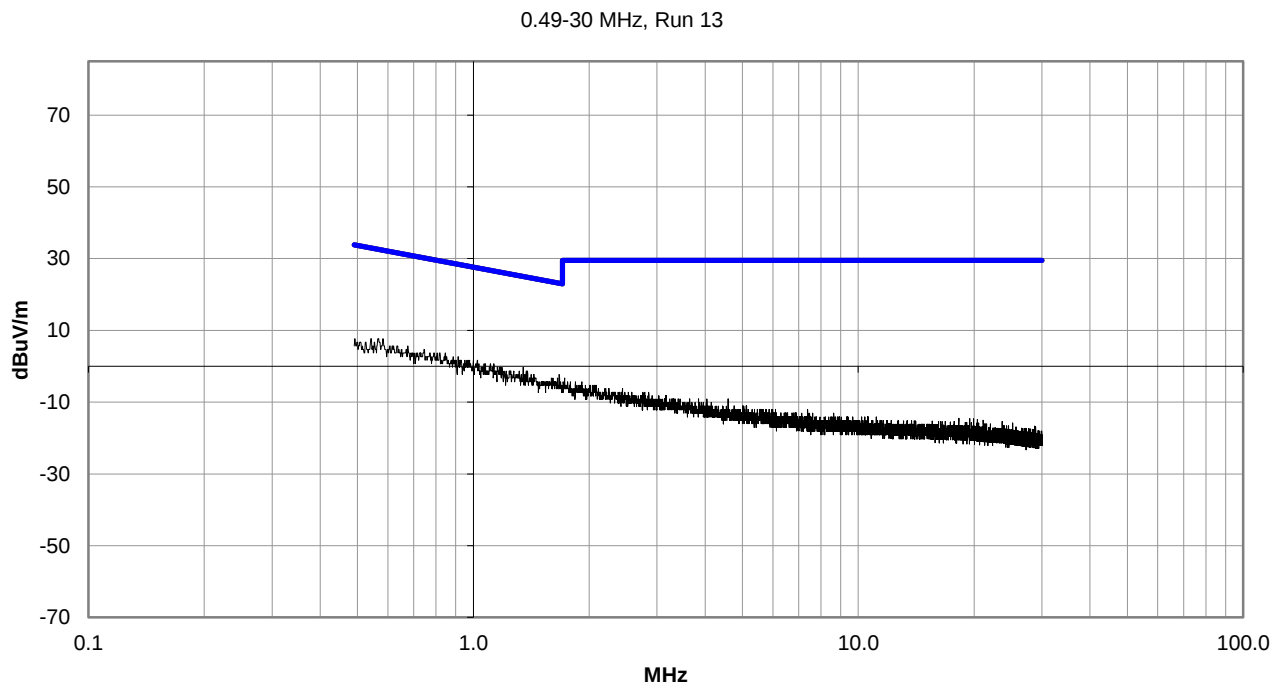
SPURIOUS RADIATED EMISSIONS (LESS THAN 30MHZ)

PRESCAN DATA

Radiated spurious emissions from the EUT are initially reviewed with Pre-scans (Preview scans). Pre-scans are performed, with the EUT transmitting on the lowest applicable data rate, for both vertical and horizontal polarizations. The Pre-scan plots below are shown with a peak detector and RBW for the following frequency ranges: 9 kHz RBW (< 30 MHz); 120 kHz RBW (30 - 1000 MHz); 1 MHz RBW (> 1 GHz). In the case where unintentional emissions are observed, an ambient or idle pre-scan with the radio off, will be shown for comparison.



SPURIOUS RADIATED EMISSIONS (LESS THAN 30MHZ)



SPURIOUS RADIATED EMISSIONS (GREATER THAN 30MHZ)

TEST DESCRIPTION

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These "pre-scans" are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector
PK = Peak Detector
AV = RMS Detector

Measurements were made to satisfy the specific requirements of the test specification for out of band emissions as well as the restricted band requirements.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2026-01-06	2027-01-06
Antenna - Biconilog	Teseq	CBL 6141B	AXR	2025-04-15	2027-04-15
Cable	N/A	Bilog Cables	EVA	2025-10-24	2026-10-24
Amplifier - Pre-Amplifier	Miteq	AM-1616-1000	AOL	2025-12-09	2026-12-09
Antenna - Double Ridge	ETS Lindgren	3115	AIZ	2024-03-08	2026-03-08
Cable	N/A	Double Ridge Horn Cables	EVB	2025-05-02	2026-05-02
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAG	2025-10-23	2026-10-23
Antenna - Standard Gain	ETS Lindgren	3160-07	AHU	2025-01-23	2026-01-23
Cable	None	Standard Gain Horn Cables	EVF	2025-10-23	2026-10-23
Amplifier - Pre-Amplifier	L-3 Narda-MITEQ	AMF-6F-08001200-30-10P	PAO	2025-10-23	2026-10-23
Antenna - Standard Gain	ETS Lindgren	3160-08	AHV	2025-01-23	2026-01-23
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	2025-10-23	2026-10-23
Antenna - Biconilog	EMCO	3142B	AXJ	2025-09-10	2027-09-10
Cable	None	10m Test Distance Cable	EVL	2025-01-20	2026-01-20
Amplifier - Pre-Amplifier	Fairview Microwave	FMAM63001	PAY	2025-01-20	2026-01-20
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFD	2025-06-18	2026-06-18

FREQUENCY RANGE INVESTIGATED

30 MHz TO 18 GHz

POWER INVESTIGATED

USB-C

CONFIGURATIONS INVESTIGATED

SMTE0016-1
SMTE0016-3

MODES INVESTIGATED

Polling mode
Max Charging mode

SPURIOUS RADIATED EMISSIONS (GREATER THAN 30MHZ)



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal	Date:	2026-01-07
Customer:	SMART Technologies ULC	Temperature:	20.6°C
Attendees:	Sean MacKellar	Relative Humidity:	37.1%
Customer Project:	None	Bar. Pressure (PMSL):	1010 mb
Tested By:	Christopher Pinkham, Jeff Alcock	Job Site:	EV11
Power:	USB-C	Configuration:	SMTE0016-1

TEST PARAMETERS

Run #:	3	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
--------	---	--------------------	---	---------------------	-----------

COMMENTS

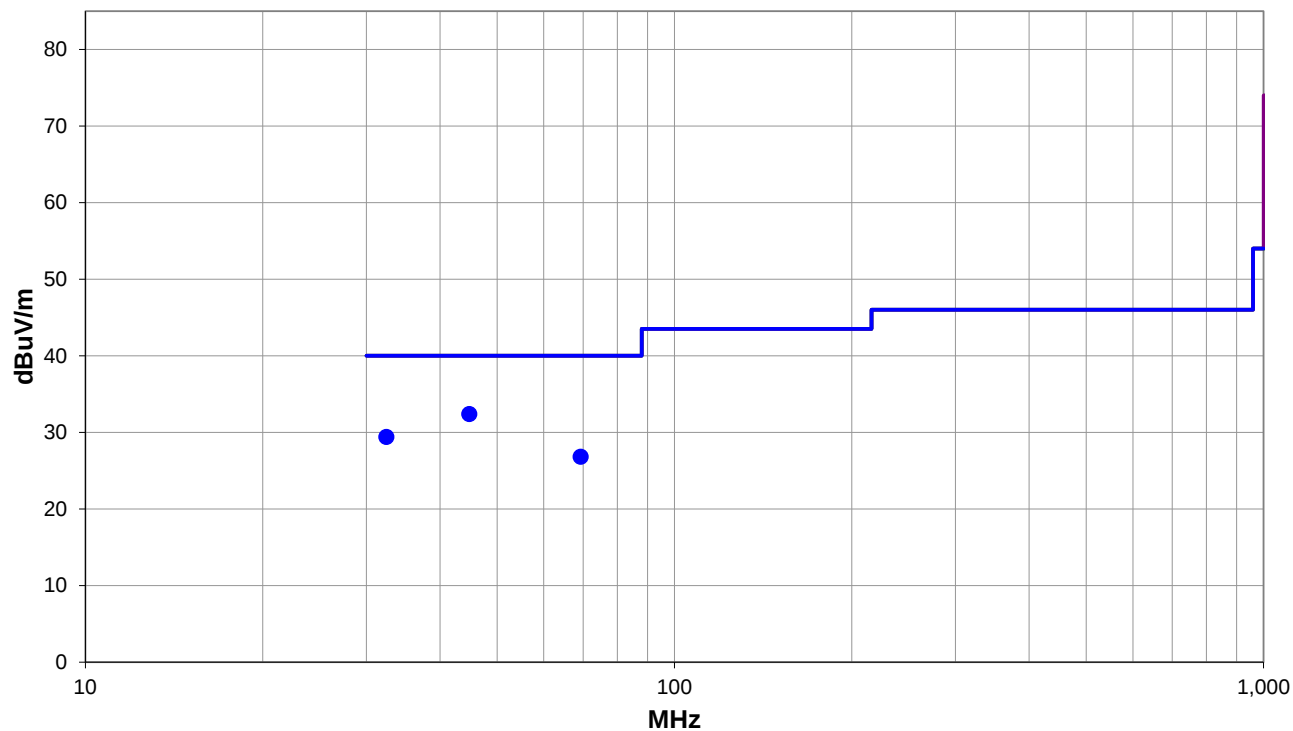
Measurements performed using worst case orientation as determined by pre-compliance testing.

EUT OPERATING MODES

Max Charging mode

DEVIATIONS FROM TEST STANDARD

None



Run #: 3

PK AV QP

SPURIOUS RADIATED EMISSIONS (GREATER THAN 30MHZ)

RESULTS - Run #3

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
44.826	57.9	-25.5	0.99	145.0	3.0	0.0	Vert	QP	0.0	32.4	40.0	-7.6	EUT Vert
32.418	49.1	-19.7	1.0	95.0	3.0	0.0	Vert	QP	0.0	29.4	40.0	-10.6	EUT Vert
69.273	55.7	-28.9	1.0	45.0	3.0	0.0	Vert	QP	0.0	26.8	40.0	-13.2	EUT Vert

CONCLUSION
Pass


Tested By

SPURIOUS RADIATED EMISSIONS (GREATER THAN 30MHZ)



EUT:	CBQR-3	Work Order:	SMTE0016
Serial Number:	Normal	Date:	2026-01-09
Customer:	SMART Technologies ULC	Temperature:	21.3°C
Attendees:	Sean MacKellar	Relative Humidity:	35.6%
Customer Project:	None	Bar. Pressure (PMSL):	1032 mb
Tested By:	Cole Ghizzone	Job Site:	EV01
Power:	USB-C	Configuration:	SMTE0016-3

TEST PARAMETERS

Run #:	12	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
--------	----	--------------------	---	---------------------	-----------

COMMENTS

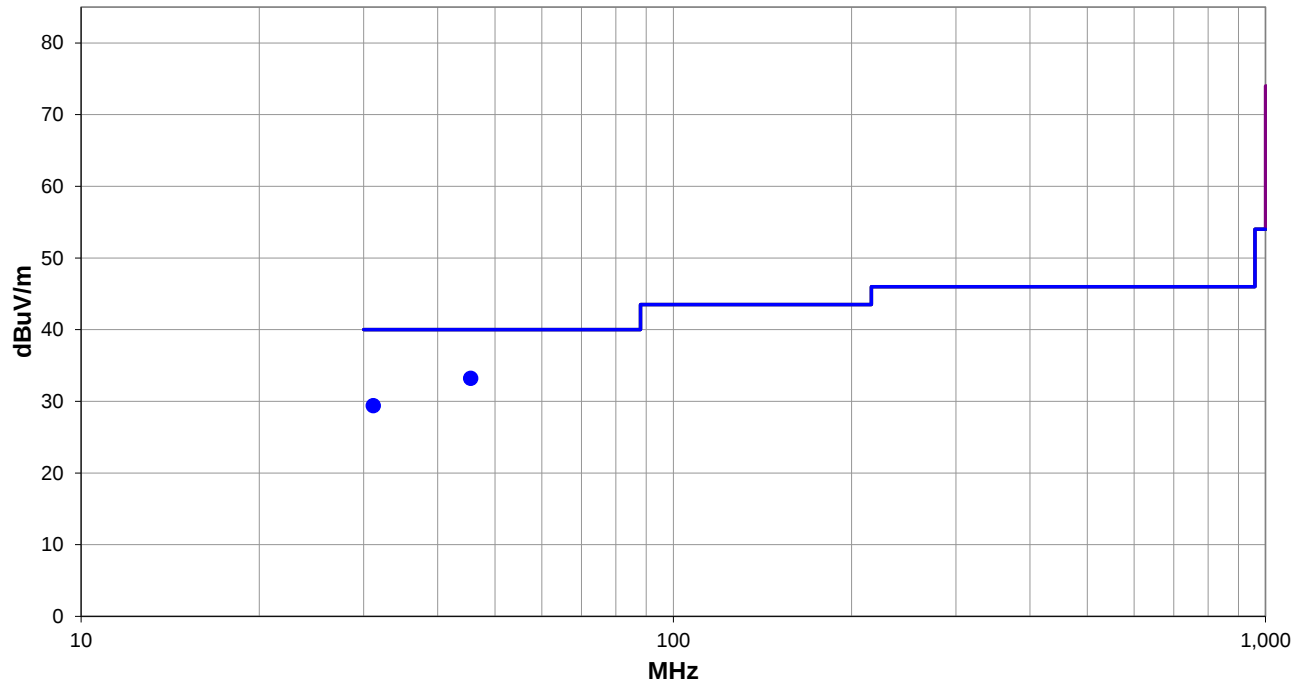
Measurements performed using worst case orientation as determined by pre-compliance testing.
--

EUT OPERATING MODES

Polling mode

DEVIATIONS FROM TEST STANDARD

None



Run #: 12

■ PK ◆ AV ● QP

SPURIOUS RADIATED EMISSIONS (GREATER THAN 30MHZ)

RESULTS - Run #12

Freq (MHz)	Amplitude (dBuV)	Factor (dB/m)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
45.497	34.7	-1.5	1.5	205.0	3.0	0.0	Vert	QP	0.0	33.2	40.0	-6.8	EUT Vert
31.142	24.9	4.5	1.39	317.0	3.0	0.0	Vert	QP	0.0	29.4	40.0	-10.6	EUT Vert

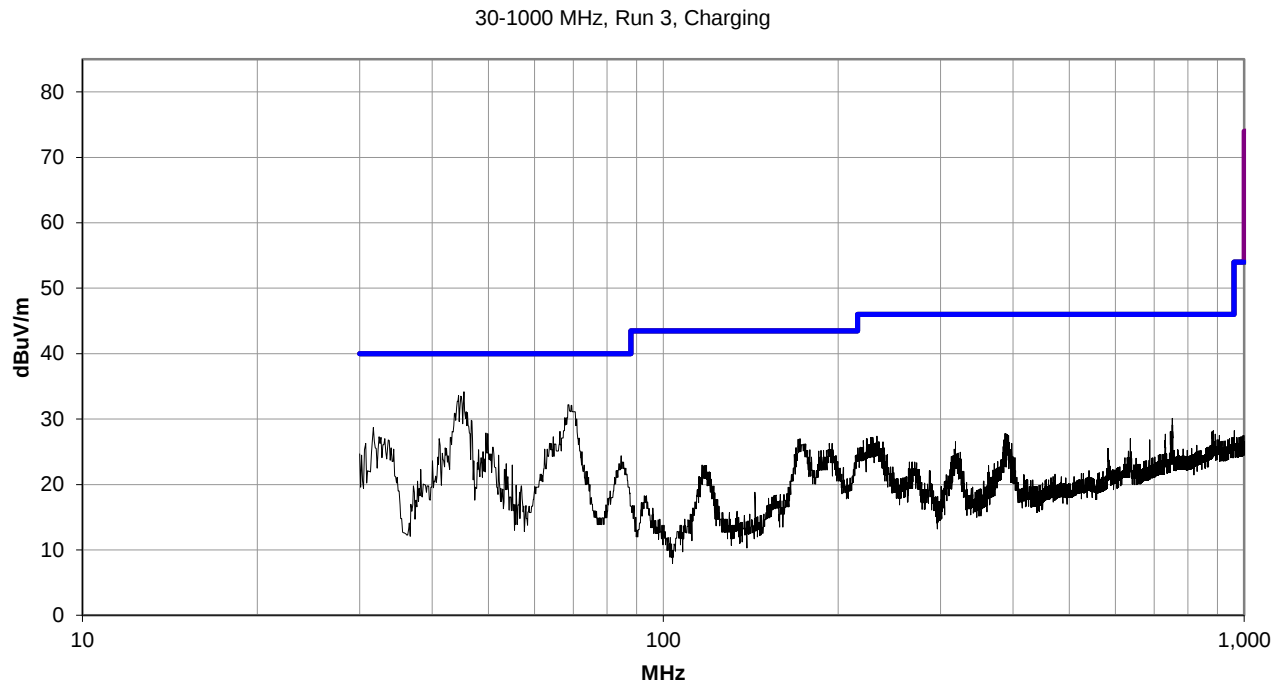
CONCLUSION
Pass


Tested By

SPURIOUS RADIATED EMISSIONS (GREATER THAN 30MHz)

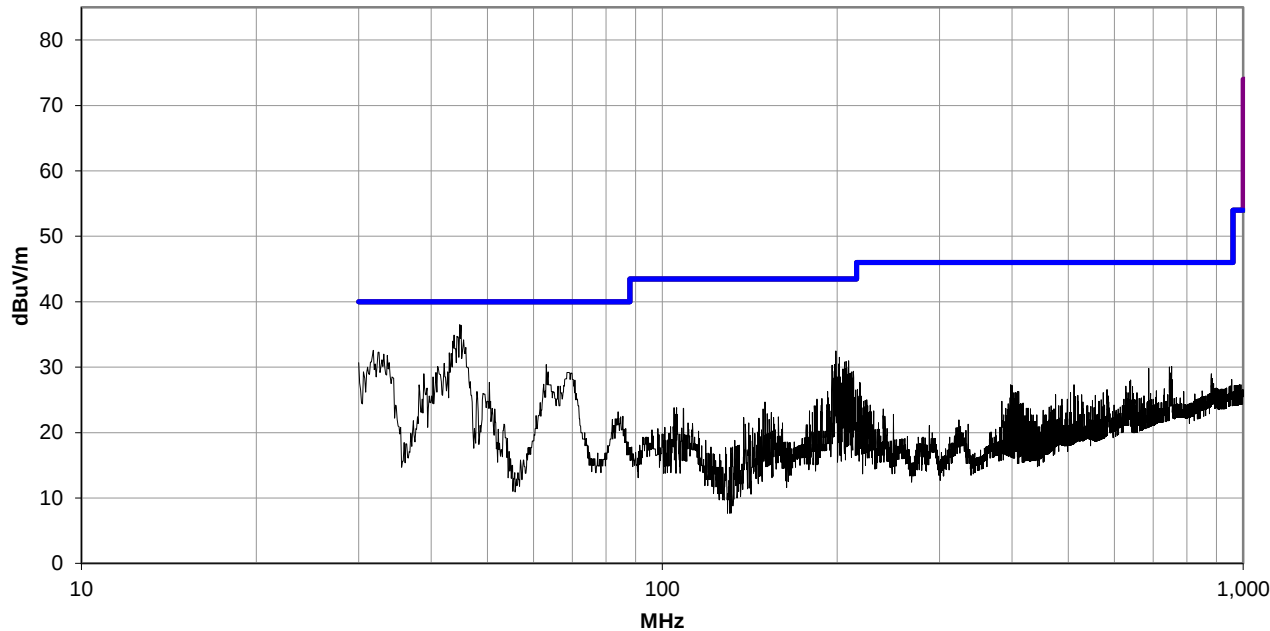
PRESCAN DATA

Radiated spurious emissions from the EUT are initially reviewed with Pre-scans (Preview scans). Pre-scans are performed, with the EUT transmitting on the lowest applicable data rate, for both vertical and horizontal polarizations. The Pre-scan plots below are shown with a peak detector and RBW for the following frequency ranges: 9 kHz RBW (< 30 MHz); 120 kHz RBW (30 - 1000 MHz); 1 MHz RBW (> 1 GHz). In the case where unintentional emissions are observed, an ambient or idle pre-scan with the radio off, will be shown for comparison.

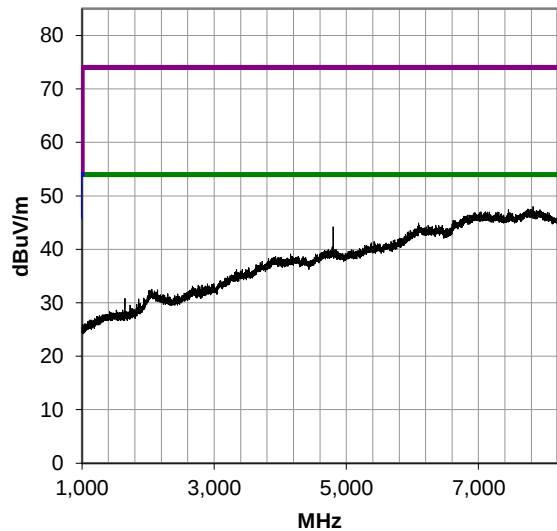


SPURIOUS RADIATED EMISSIONS (GREATER THAN 30MHz)

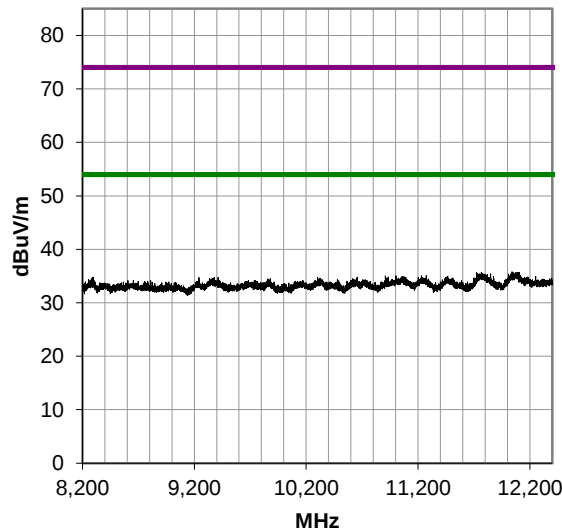
30-1000 MHz, Run 4, Idle/Pulling



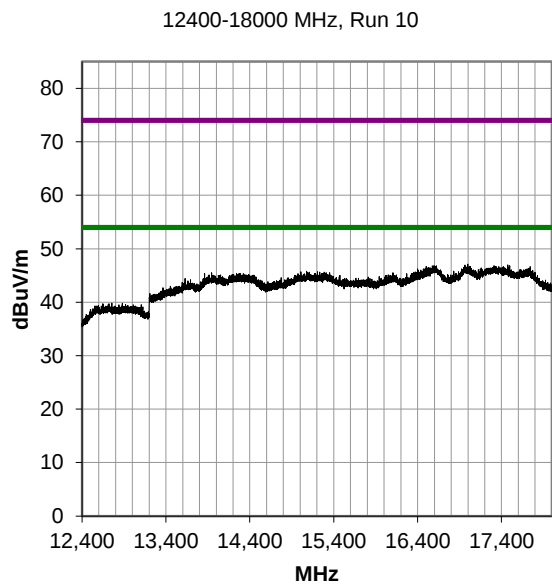
1000-8200 MHz, Run 7



8200-12400 MHz, Run 8



SPURIOUS RADIATED EMISSIONS (GREATER THAN 30MHz)



End of Test Report