



element

Abbott

SGL-SAL AccessPoint

FCC 15.225:2025

RSS-210 Issue 11:2024

RSS-Gen Issue 5:2018+A1:2019+A2:2021

13.56 MHz Radio

Report: ABBO0336.0 Rev. 01, Issue Date: March 30, 2026



Element Plano
1701 E. Plano Parkway #150
Plano, TX 75074 USA



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.

EAR-Controlled Data - This document contains technical data whose export and reexport/retransfer is subject to control by the U.S. Department of Commerce under the Export Administration Act and the Export Administration Regulations. The Department of Commerce's prior written approval may be required for the export or re-export/retransfer of such technical data to any foreign person, foreign entity or foreign organization whether in the United States or abroad.

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 Antenna Information	11
Configurations	12
Modifications	14
Powerline Conducted Emissions	15
Field Strength of Fundamental	24
Field Strength of Spurious Emissions (Less than 30 MHz)	31
Field Strength of Spurious Emissions (Greater than 30 MHz)	37
Frequency Stability	43
Emissions Bandwidth	47
Occupied Bandwidth	51
End of Report	55

CERTIFICATE OF TEST

Last Date of Test: December 31, 2025

Abbott

EUT: SGI-SAL AccessPoint

Radio Equipment Testing

Standards

Specification	Method
FCC 15.225:2025	ANSI C63.10:2020 Cor.1:2023
RSS-210 Issue 11:2024	ANSI C63.10:2020 Cor. 1:2023 +C63.10a:2024 +Errata to C63.10a:2024
RSS-Gen Issue 5:2018+A1:2019+A2:2021	ANSI C63.10:2020 Cor. 1:2023 +C63.10a:2024 +Errata to C63.10a:2024

Guidance

KDB 174176
Notice 2020 - DRS0023

Results

Test Description	Result	FCC Section(s)	RSS Section(s)	ANSI C63.10 Section(s)	Comments
Powerline Conducted Emissions	Pass	15.207	RSS-Gen 8.8	6.2	
Field Strength of Fundamental	Pass	15.225(a)-(c)	RSS-210 B.6(a)(i-iv)	6.4	
Field Strength of Spurious Emissions (Less Than 30 MHz)	Pass	15.225(d), 15.209	RSS-210 B.6(a)(iv)	6.4	
Field Strength of Spurious Emissions (Greater Than 30 MHz)	Pass	15.225(d), 15.209	RSS-210 B.6(a)(iv)	6.5	
Frequency Stability	Pass	15.225(e), 15.31(e), 15.215(c), 2.1055	RSS-210 B.6(b)	6.8	
Emissions Bandwidth	Pass	15.215(c)	N/A	6.9.2	
Occupied Bandwidth	Pass	N/A	RSS-Gen 6.7	6.9.3	

Deviations From Test Standards

None

Approved By:



Adam Bruno, Operations Manager
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
01	Contents of ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 were reviewed. Additional testing was done to include polling operation for OBW and EBW test data (previously only radiated tests included both modes). Modifications to the CoT were made to indicate these methods were included.	2026-03-25	3
	EUT name corrected to SGI-SAL AccessPoint.	2026-03-25	1, 3, 10, 16, 18, 20, 22, 25, 27, 32, 34, 38, 40, 44, 48, 49, 52, 53
	Serial numbers corrected.	2026-03-25	16, 18, 20, 22, 25, 27, 32, 34, 38, 40, 44
	Correct capture has been replaced in data module.	2026-03-25	46

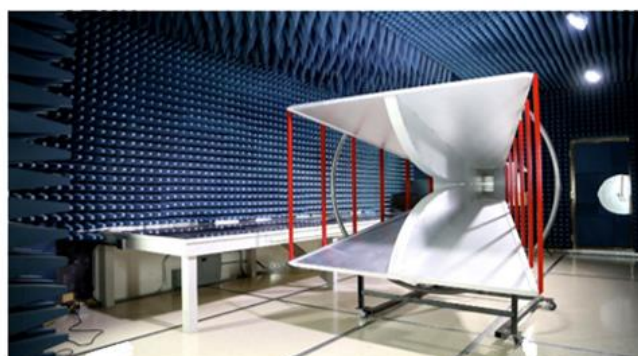
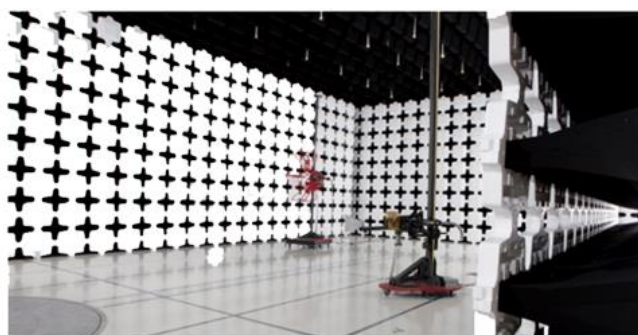
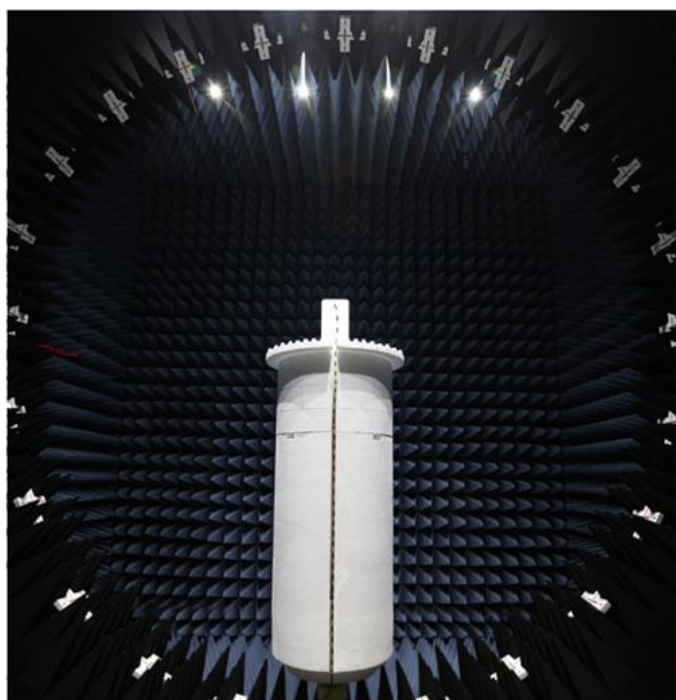
FACILITIES

Testing was performed at the following location(s)

	Location	Labs ⁽¹⁾	Address	A2LA ⁽²⁾	ISED ⁽³⁾	BSMI ⁽⁴⁾	VCCI ⁽⁵⁾	CAB	FDA ⁽⁶⁾
☒	Plano Texas	PT01-15	1701 E Plano Pkwy, Ste 150 Plano, TX 75074 (972) 509-2566	214.19	32637	SL2-IN-E-057R	A-0426	US0054	TL-137
☐	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	PT07 (+/-)
10kHz-30MHz	1.8
30MHz-1GHz 10m	3.9
1GHz-6GHz	6
6GHz-18GHz	6

AC Powerline Conducted Emissions Measurements (dB)

Range	PT12 (+/-)
9kHz-150kHz LISN	3.6
150kHz-30MHz LISN	3.2
150kHz-30MHz CVP	3
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.

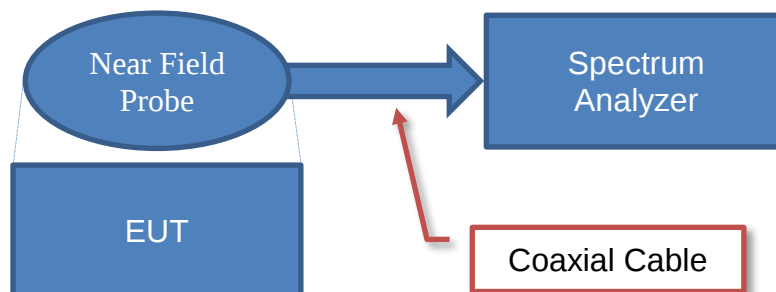
Antenna Port Conducted Measurements



Sample Calculation (logarithmic units)

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

Near Field Test Fixture Measurements

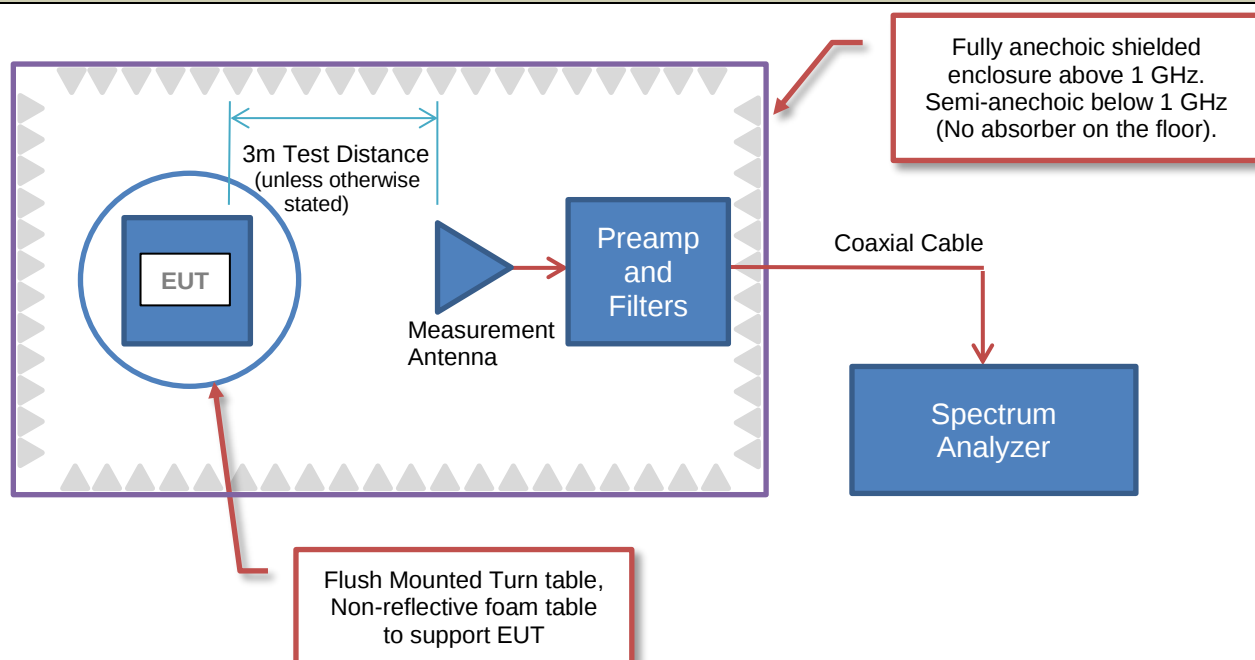


Sample Calculation (logarithmic units)

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

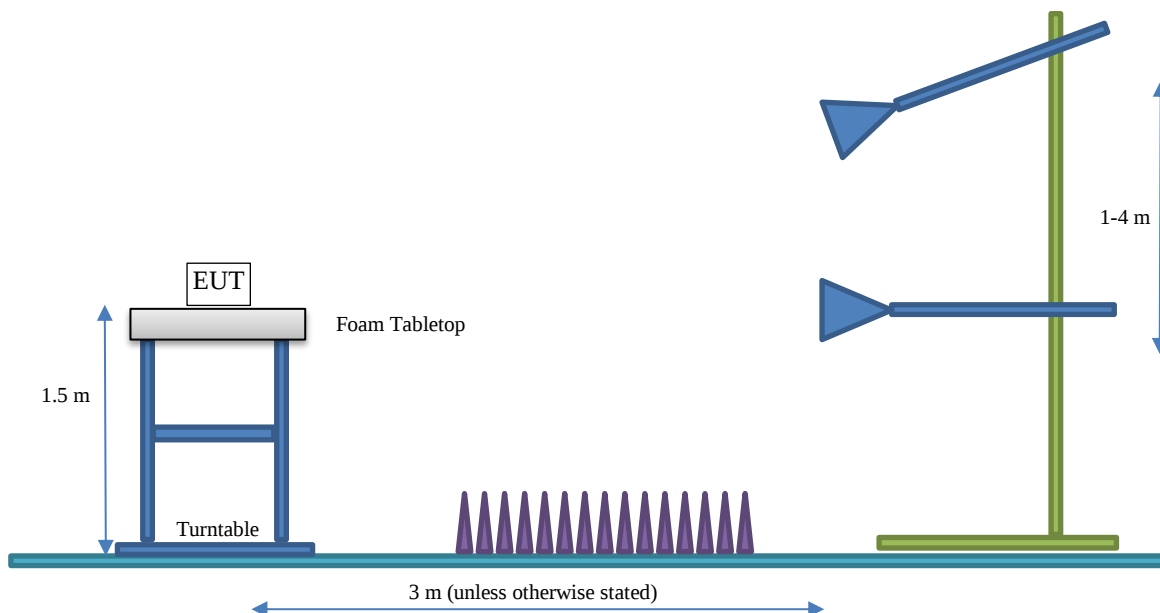
Radiated Power (ERP/EIRP) – Substitution Method:

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:	Abbott
Address:	1921 Hurd Dr
City, State, Zip:	Irving, TX 75038
Test Requested By:	Frank Sun
EUT:	SGI-SAL AccessPoint
First Date of Test:	December 15, 2025
Last Date of Test:	December 31, 2025
Receipt Date of Samples:	December 15, 2025
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

SGI-SAL AccessPoint – The SGI-SAL AccessPoint is a track component intend to be installed onto a track section. It is used to identify and secure a CAR in place, allowing the external interface robotics to perform designated functions while the patient sample remains in the CAR. This product includes one RFID radio circuitry with one antenna consist of 2 PCBs installed under the plastic track piece.

Testing Objective:

To demonstrate compliance of the 13.56 MHz radio to FCC 15.225 requirements. and RSS-210 Annex B.6 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	Provided by:	Dimensions
Embedded Loop Antenna, 2 Turns	Abbott Automation Solutions	51mm x 35mm

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

- ☐ Test software settings Test software/firmware installed on EUT: See Configuration
- ☒ Rated power settings

SETTINGS FOR ALL TESTS IN THIS REPORT

Radio	Modulation	Protocol	Data Rate (Kbps)	Frequency (MHz)	Power Setting
RFID	OOK	ISO 15693	26.48 kbps	13.56 MHz	200mW

CONFIGURATIONS



Configuration ABBO0336-1

Software/Firmware Running During Test	
Description	Version
D000176181/A-GLP PCB TRANSMITTER TESTING SCRIPT VERIFICATION	A

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
SGI-SAL AccessPoint	Abbott	06R27-21	SGISALAP0002

Peripherals in Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
PCB Track Supply	Abbott	20008483	None
Junction Box Assembly	Abbott	06U35-06	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power Cable	Yes	1.4m	No	AC Mains	Junction Box Assembly
DC Power Cable	No	0.7m	Yes	Junction Box Assembly	SGI-SAL AccessPoint

Configuration ABBO0336-2

Software/Firmware Running During Test	
Description	Version
D000176181/A-GLP PCB TRANSMITTER TESTING SCRIPT VERIFICATION	A

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
SGI-SAL AccessPoint	Abbott	06R27-21	SGISALAP0002

Peripherals in Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Car	Abbott	04Z95-51	0130844
Junction Box Assembly	Abbott	06U35-06	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power Cable	Yes	1.4m	No	AC Mains	Junction Box Assembly
DC Power Cable	No	0.7m	Yes	Junction Box Assembly	SGI-SAL AccessPoint

CONFIGURATIONS



Configuration ABBO0336-3

Software/Firmware Running During Test	
Description	Version
D000176181/A-GLP PCB TRANSMITTER TESTING SCRIPT VERIFICATION	A

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
SGI-SAL AccessPoint	Abbott	06R27-21	SGISALAP0002

Peripherals in Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Track Supply 24V 2 U	Abbott	06U35-01	None
Track Filter Unit 3 UL	Abbott	06U35-07	None
PCB Track Supply	Abbott	20008483	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Power Cable 1	Yes	1.4m	No	AC Mains	AC Line Filter
Power Cable 2	Yes	3.9m	No	AC Line Filter	Power Supply
Power Cable 3	No	1.5m	No	Power Supply	PCB Track Supply
Power Cable 4	No	0.7m	Yes	PCB Track Supply	SGI-SAL AccessPoint

MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2025-12-15	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.
2	2025-12-15	Field Strength of Spurious 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.
3	2025-12-16	Field Strength of Spurious 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.
4	2025-12-17	Emissions Bandwidth	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
5	2025-12-17	Occupied Bandwidth	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
6	2025-12-18	Frequency Stability	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
7	2025-12-31	Powerline Conducted Emissions	Tested as delivered to test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

POWERLINE CONDUCTED EMISSIONS

TEST DESCRIPTION

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT.

The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.10.

In the event that the operating frequency of 13.56 MHz is causing the product to fail the FCC 15.207 limits, the following guidance can be used:

FCC KDB 174176 D01 AC Conducted FAQ v01r02, Section Q5:

For an intentional radiator with an antenna operating at or below 30 MHz, the FCC compliance can be demonstrated via measurements performed with a suitable dummy load in lieu of the antenna under the following conditions:

- (1) the ac power line conducted tests are performed with the antenna connected to determine compliance with Section 15.207 limits outside the transmitter's fundamental emission band, and
- (2) an additional test with a dummy load in lieu of the antenna is performed to determine compliance with Section 15.207 limits within the transmitter's fundamental emission band. For a detachable antenna, the antenna needs to be removed, and a suitable dummy load must be connected to the antenna connector. For a permanent antenna, one needs to remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.
- (3) All measurements must be performed as specified in clause 6.2 of ANSI C63.10-2020.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Receiver	Rohde & Schwarz	ESR7	ARI	2025-04-14	2026-04-14
Cable - Conducted Cable Assembly	Northwest EMC	TXA, HFC, RKY, VAC	TXAA	2025-03-04	2026-03-04
LISN	Com-Power Corporation	LI-200C	LTM	2025-04-22	2026-04-22
Power Source/Analyzer	Hewlett Packard	6841A	THC	NCR	NCR

CONFIGURATIONS INVESTIGATED

ABBO0336-3

MODES INVESTIGATED

Continuous Transmit, RFID, 13.56 MHz, OOK

POWERLINE CONDUCTED EMISSIONS



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-23
Customer:	Abbott	Temperature:	22.1°C
Attendees:	None	Relative Humidity:	60.2%
Customer Project:	None	Bar. Pressure (PMSL):	995 mb
Tested By:	Kimberley Hernandez and Jarrod Brenden	Job Site:	PT12
Power:	220VAC/60Hz	Configuration:	ABBO0336-3

TEST PARAMETERS

Run #:	4	Line:	High Line	Add. Ext. Attenuation (dB):	0
--------	---	-------	-----------	-----------------------------	---

COMMENTS

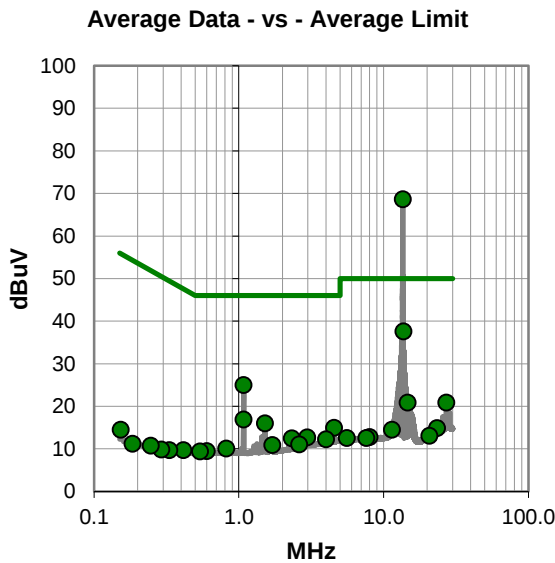
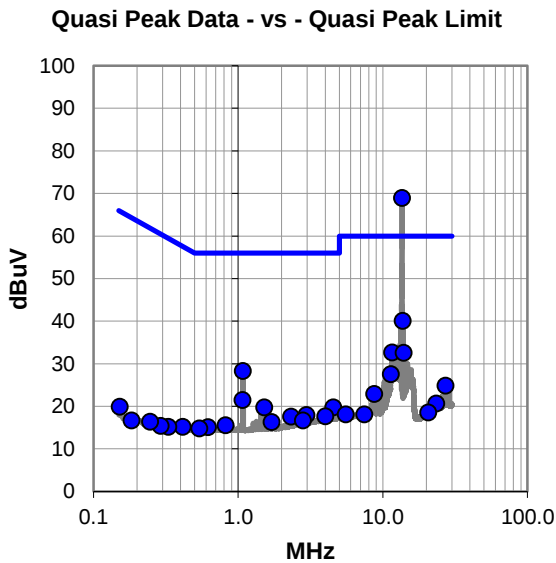
EUT is considered floor-standing. Testing per protocol D000166179/B.

EUT OPERATING MODES

Continuous Transmit, RFID, 13.56 MHz, OOK

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #4

Quasi Peak Data - vs - Quasi Peak Limit

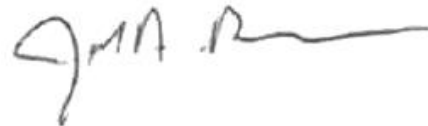
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
13.560	48.4	20.6	69.0	60.0	9.0
13.720	19.5	20.6	40.1	60.0	-19.9
11.591	12.1	20.6	32.7	60.0	-27.3
13.931	12.0	20.6	32.6	60.0	-27.4
1.079	8.2	20.1	28.3	56.0	-27.7
11.393	7.0	20.6	27.6	60.0	-32.4
1.075	1.4	20.1	21.5	56.0	-34.5
27.121	2.3	22.6	24.9	60.0	-35.1
1.516	-0.3	20.1	19.8	56.0	-36.2
4.549	-0.4	20.2	19.8	56.0	-36.2
8.720	2.5	20.4	22.9	60.0	-37.1
2.970	-2.2	20.2	18.0	56.0	-38.0
4.000	-2.5	20.2	17.7	56.0	-38.3
2.326	-2.5	20.1	17.6	56.0	-38.4
2.810	-3.4	20.1	16.7	56.0	-39.3
23.422	-0.7	21.4	20.7	60.0	-39.3
1.700	-3.8	20.1	16.3	56.0	-39.7
0.820	-4.6	20.2	15.6	56.0	-40.4
0.620	-5.1	20.2	15.1	56.0	-40.9
0.539	-5.3	20.1	14.8	56.0	-41.2
20.569	-2.5	21.1	18.6	60.0	-41.4
5.561	-2.1	20.2	18.1	60.0	-41.9
7.450	-2.3	20.4	18.1	60.0	-41.9
0.413	-5.0	20.2	15.2	57.6	-42.4
0.330	-5.0	20.2	15.2	59.5	-44.3

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
13.560	48.1	20.6	68.7	50.0	18.7
13.720	17.0	20.6	37.6	50.0	-12.4
1.079	4.9	20.1	25.0	46.0	-21.0
14.670	0.2	20.7	20.9	50.0	-29.1
27.121	-1.7	22.6	20.9	50.0	-29.1
1.075	-3.2	20.1	16.9	46.0	-29.1
1.516	-4.1	20.1	16.0	46.0	-30.0
4.549	-5.2	20.2	15.0	46.0	-31.0
2.970	-7.5	20.2	12.7	46.0	-33.3
2.326	-7.6	20.1	12.5	46.0	-33.5
4.000	-7.9	20.2	12.3	46.0	-33.7
2.614	-9.1	20.2	11.1	46.0	-34.9
1.700	-9.2	20.1	10.9	46.0	-35.1
23.422	-6.5	21.4	14.9	50.0	-35.1
11.389	-6.1	20.6	14.5	50.0	-35.5
0.820	-10.1	20.2	10.1	46.0	-35.9
0.600	-10.7	20.2	9.5	46.0	-36.5
0.539	-10.7	20.1	9.4	46.0	-36.6
20.650	-8.0	21.1	13.1	50.0	-36.9
8.000	-7.6	20.4	12.8	50.0	-37.2
5.560	-7.6	20.2	12.6	50.0	-37.4
7.580	-7.8	20.4	12.6	50.0	-37.4
0.413	-10.5	20.2	9.7	47.6	-37.9
0.330	-10.5	20.2	9.7	49.5	-39.8
0.292	-10.4	20.3	9.9	50.5	-40.6

CONCLUSION

Evaluation



Tested By

POWERLINE CONDUCTED EMISSIONS



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-23
Customer:	Abbott	Temperature:	22.1°C
Attendees:	None	Relative Humidity:	60.2%
Customer Project:	None	Bar. Pressure (PMSL):	995 mb
Tested By:	Kimberley Hernandez and Jarrod Brenden	Job Site:	PT12
Power:	220VAC/60Hz	Configuration:	ABBO0336-3

TEST PARAMETERS

Run #:	5	Line:	Neutral	Add. Ext. Attenuation (dB):	0
--------	---	-------	---------	-----------------------------	---

COMMENTS

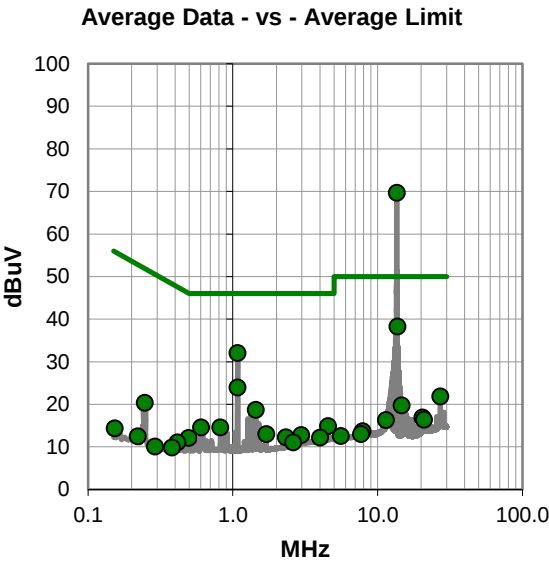
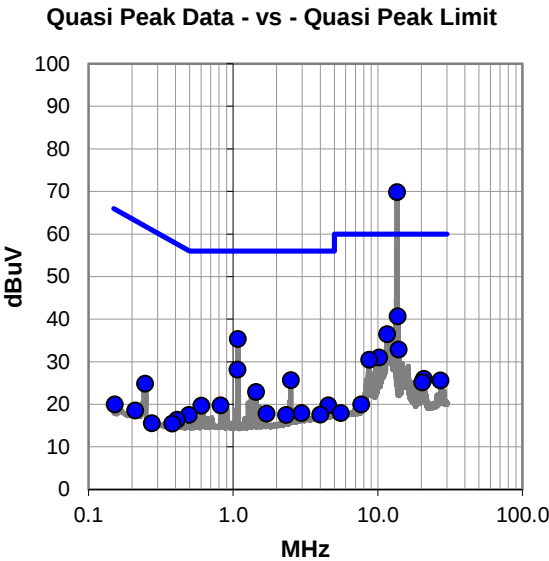
EUT is considered floor-standing. Testing per protocol D000166179/B.
--

EUT OPERATING MODES

Continuous Transmit, RFID, 13.56 MHz, OOK

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #5

Quasi Peak Data - vs - Quasi Peak Limit

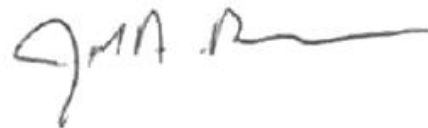
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
13.560	49.3	20.6	69.9	60.0	9.9
13.720	20.1	20.6	40.7	60.0	-19.3
1.079	15.3	20.1	35.4	56.0	-20.6
11.600	15.9	20.6	36.5	60.0	-23.5
13.931	12.3	20.6	32.9	60.0	-27.1
1.075	8.1	20.1	28.2	56.0	-27.8
10.210	10.5	20.5	31.0	60.0	-29.0
8.730	10.1	20.4	30.5	60.0	-29.5
2.506	5.5	20.2	25.7	56.0	-30.3
1.439	2.8	20.1	22.9	56.0	-33.1
20.880	4.9	21.1	26.0	60.0	-34.0
27.121	3.0	22.6	25.6	60.0	-34.4
20.290	4.2	21.0	25.2	60.0	-34.8
0.820	-0.4	20.2	19.8	56.0	-36.2
4.549	-0.4	20.2	19.8	56.0	-36.2
0.602	-0.5	20.2	19.7	56.0	-36.3
0.247	4.4	20.5	24.9	61.9	-37.0
2.970	-2.2	20.2	18.0	56.0	-38.0
1.700	-2.3	20.1	17.8	56.0	-38.2
4.000	-2.6	20.2	17.6	56.0	-38.4
2.320	-2.6	20.1	17.5	56.0	-38.5
0.494	-2.6	20.1	17.5	56.1	-38.6
7.690	-0.4	20.4	20.0	60.0	-40.0
0.410	-3.8	20.2	16.4	57.6	-41.2
5.560	-2.2	20.2	18.0	60.0	-42.0

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
13.560	49.1	20.6	69.7	50.0	19.7
13.720	17.7	20.6	38.3	50.0	-11.7
1.079	12.0	20.1	32.1	46.0	-13.9
1.075	3.9	20.1	24.0	46.0	-22.0
1.439	-1.4	20.1	18.7	46.0	-27.3
27.121	-0.7	22.6	21.9	50.0	-28.1
14.670	-0.9	20.7	19.8	50.0	-30.2
4.549	-5.3	20.2	14.9	46.0	-31.1
0.602	-5.6	20.2	14.6	46.0	-31.4
0.820	-5.6	20.2	14.6	46.0	-31.4
0.247	-0.1	20.5	20.4	51.9	-31.5
1.700	-7.1	20.1	13.0	46.0	-33.0
20.360	-4.1	21.0	16.9	50.0	-33.1
2.970	-7.4	20.2	12.8	46.0	-33.2
20.893	-4.7	21.1	16.4	50.0	-33.6
2.321	-7.8	20.1	12.3	46.0	-33.7
11.389	-4.3	20.6	16.3	50.0	-33.7
4.000	-8.0	20.2	12.2	46.0	-33.8
0.494	-8.0	20.1	12.1	46.1	-34.0
2.614	-9.1	20.2	11.1	46.0	-34.9
7.861	-6.7	20.4	13.7	50.0	-36.3
0.413	-9.1	20.2	11.1	47.6	-36.5
7.690	-7.4	20.4	13.0	50.0	-37.0
5.560	-7.6	20.2	12.6	50.0	-37.4
0.380	-10.3	20.2	9.9	48.3	-38.4

CONCLUSION

Evaluation



Tested By

POWERLINE CONDUCTED EMISSIONS



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-31
Customer:	Abbott	Temperature:	19.2°C
Attendees:	None	Relative Humidity:	31.1%
Customer Project:	None	Bar. Pressure (PMSL):	995 mb
Tested By:	Kimberley Hernandez and Jarrod Brenden	Job Site:	PT12
Power:	220VAC/60Hz	Configuration:	ABBO0336-3

TEST PARAMETERS

Run #:	10	Line:	High Line	Add. Ext. Attenuation (dB):	0
--------	----	-------	-----------	-----------------------------	---

COMMENTS

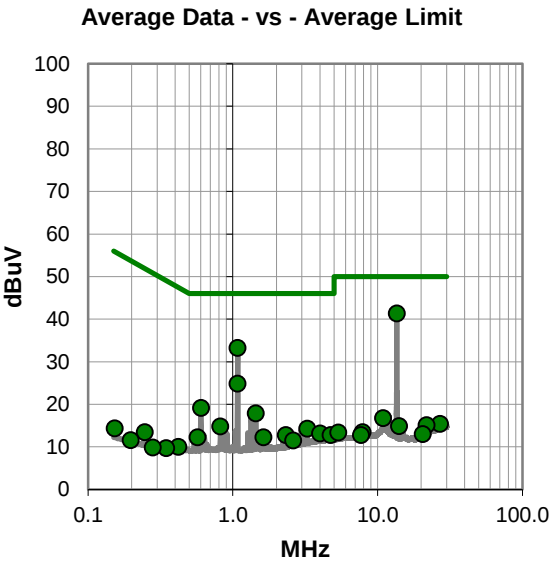
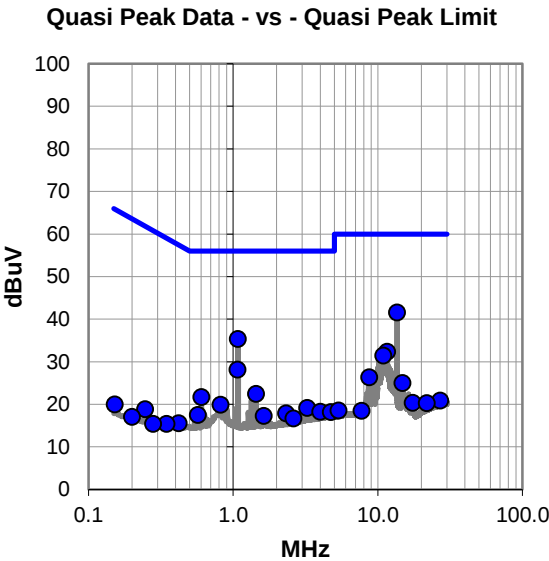
EUT is considered floor-standing. Testing per protocol D000166179/B. Antenna terminated with 50-ohm load.

EUT OPERATING MODES

Continuous Transmit, RFID, 13.56 MHz, OOK

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #10

Quasi Peak Data - vs - Quasi Peak Limit

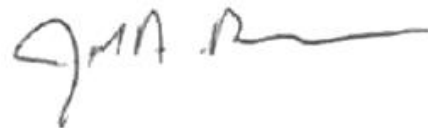
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
13.560	21.0	20.6	41.6	60.0	-18.4
1.079	15.3	20.1	35.4	56.0	-20.6
11.627	11.8	20.6	32.4	60.0	-27.6
1.075	8.1	20.1	28.2	56.0	-27.8
10.930	11.0	20.5	31.5	60.0	-28.5
1.439	2.4	20.1	22.5	56.0	-33.5
8.734	6.0	20.4	26.4	60.0	-33.6
0.602	1.5	20.2	21.7	56.0	-34.3
14.790	4.3	20.7	25.0	60.0	-35.0
0.820	-0.3	20.2	19.9	56.0	-36.1
3.257	-1.0	20.2	19.2	56.0	-36.8
4.000	-1.9	20.2	18.3	56.0	-37.7
4.740	-2.0	20.2	18.2	56.0	-37.8
2.326	-2.2	20.1	17.9	56.0	-38.1
0.571	-2.6	20.1	17.5	56.0	-38.5
1.628	-2.8	20.1	17.3	56.0	-38.7
27.020	-1.6	22.5	20.9	60.0	-39.1
2.614	-3.5	20.2	16.7	56.0	-39.3
17.460	-0.4	20.8	20.4	60.0	-39.6
21.788	-0.9	21.2	20.3	60.0	-39.7
5.350	-1.6	20.2	18.6	60.0	-41.4
7.708	-1.9	20.4	18.5	60.0	-41.5
0.420	-4.6	20.2	15.6	57.4	-41.8
0.247	-1.6	20.5	18.9	61.9	-43.0
0.346	-4.8	20.2	15.4	59.1	-43.7

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
13.560	20.8	20.6	41.4	50.0	-8.6
1.079	13.2	20.1	33.3	46.0	-12.7
1.075	4.8	20.1	24.9	46.0	-21.1
0.602	-1.0	20.2	19.2	46.0	-26.8
1.439	-2.2	20.1	17.9	46.0	-28.1
0.820	-5.4	20.2	14.8	46.0	-31.2
3.257	-5.9	20.2	14.3	46.0	-31.7
4.000	-7.0	20.2	13.2	46.0	-32.8
2.326	-7.3	20.1	12.8	46.0	-33.2
4.740	-7.4	20.2	12.8	46.0	-33.2
10.910	-3.7	20.5	16.8	50.0	-33.2
0.571	-7.8	20.1	12.3	46.0	-33.7
1.628	-7.8	20.1	12.3	46.0	-33.7
2.614	-8.7	20.2	11.5	46.0	-34.5
27.026	-7.1	22.5	15.4	50.0	-34.6
21.788	-6.1	21.2	15.1	50.0	-34.9
14.026	-5.7	20.6	14.9	50.0	-35.1
7.861	-6.9	20.4	13.5	50.0	-36.5
5.350	-6.8	20.2	13.4	50.0	-36.6
20.519	-8.1	21.1	13.0	50.0	-37.0
7.690	-7.6	20.4	12.8	50.0	-37.2
0.420	-10.2	20.2	10.0	47.4	-37.4
0.247	-7.0	20.5	13.5	51.9	-38.4
0.346	-10.5	20.2	9.7	49.1	-39.4
0.280	-10.4	20.3	9.9	50.8	-40.9

CONCLUSION

Pass



Tested By

POWERLINE CONDUCTED EMISSIONS



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-31
Customer:	Abbott	Temperature:	19.2°C
Attendees:	None	Relative Humidity:	31.1%
Customer Project:	None	Bar. Pressure (PMSL):	995 mb
Tested By:	Kimberley Hernandez and Jarrod Brenden	Job Site:	PT12
Power:	220VAC/60Hz	Configuration:	ABBO0336-3

TEST PARAMETERS

Run #:	9	Line:	Neutral	Add. Ext. Attenuation (dB):	0
--------	---	-------	---------	-----------------------------	---

COMMENTS

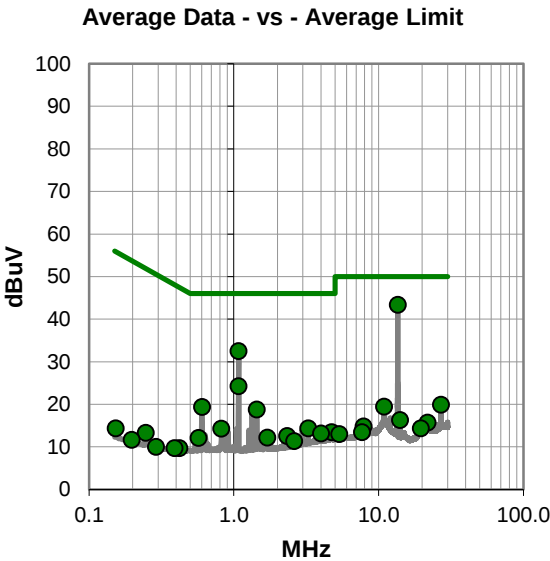
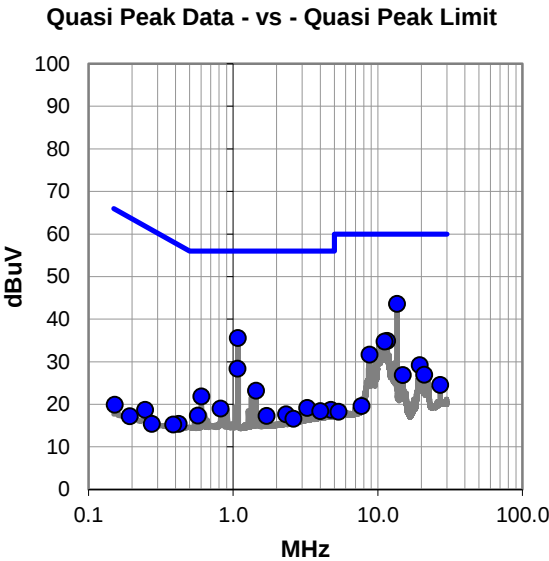
EUT is considered floor-standing. Testing per protocol D000166179/B. Antenna terminated with 50-ohm load.

EUT OPERATING MODES

Continuous Transmit, RFID, 13.56 MHz, OOK

DEVIATIONS FROM TEST STANDARD

None



POWERLINE CONDUCTED EMISSIONS

RESULTS - Run #9

Quasi Peak Data - vs - Quasi Peak Limit

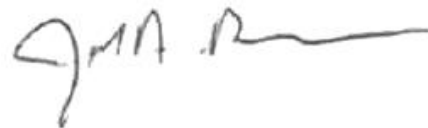
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
13.560	23.0	20.6	43.6	60.0	-16.4
1.079	15.5	20.1	35.6	56.0	-20.4
11.614	14.3	20.6	34.9	60.0	-25.1
11.140	14.3	20.5	34.8	60.0	-25.2
1.075	8.3	20.1	28.4	56.0	-27.6
8.756	11.3	20.4	31.7	60.0	-28.3
19.511	8.3	20.9	29.2	60.0	-30.8
1.439	3.1	20.1	23.2	56.0	-32.8
20.910	5.9	21.1	27.0	60.0	-33.0
14.870	6.1	20.8	26.9	60.0	-33.1
0.602	1.7	20.2	21.9	56.0	-34.1
27.020	2.1	22.5	24.6	60.0	-35.4
3.257	-1.0	20.2	19.2	56.0	-36.8
0.820	-1.2	20.2	19.0	56.0	-37.0
4.740	-1.5	20.2	18.7	56.0	-37.3
4.000	-1.8	20.2	18.4	56.0	-37.6
2.330	-2.4	20.1	17.7	56.0	-38.3
0.571	-2.7	20.1	17.4	56.0	-38.6
1.700	-2.8	20.1	17.3	56.0	-38.7
2.614	-3.6	20.2	16.6	56.0	-39.4
7.708	-0.8	20.4	19.6	60.0	-40.4
5.350	-1.9	20.2	18.3	60.0	-41.7
0.420	-4.8	20.2	15.4	57.4	-42.0
0.386	-4.9	20.2	15.3	58.1	-42.8
0.247	-1.8	20.5	18.7	61.9	-43.2

Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
13.560	22.8	20.6	43.4	50.0	-6.6
1.079	12.4	20.1	32.5	46.0	-13.5
1.075	4.2	20.1	24.3	46.0	-21.7
0.602	-0.8	20.2	19.4	46.0	-26.6
1.439	-1.3	20.1	18.8	46.0	-27.2
27.020	-2.6	22.5	19.9	50.0	-30.1
10.910	-1.0	20.5	19.5	50.0	-30.5
3.260	-5.8	20.2	14.4	46.0	-31.6
0.820	-5.9	20.2	14.3	46.0	-31.7
4.740	-6.7	20.2	13.5	46.0	-32.5
4.000	-7.0	20.2	13.2	46.0	-32.8
2.330	-7.5	20.1	12.6	46.0	-33.4
14.026	-4.3	20.6	16.3	50.0	-33.7
1.700	-7.9	20.1	12.2	46.0	-33.8
0.571	-8.0	20.1	12.1	46.0	-33.9
21.788	-5.5	21.2	15.7	50.0	-34.3
2.614	-8.8	20.2	11.4	46.0	-34.6
7.861	-5.6	20.4	14.8	50.0	-35.2
19.530	-6.5	20.9	14.4	50.0	-35.6
7.690	-6.9	20.4	13.5	50.0	-36.5
5.350	-7.2	20.2	13.0	50.0	-37.0
0.420	-10.5	20.2	9.7	47.4	-37.7
0.390	-10.5	20.2	9.7	48.1	-38.4
0.247	-7.2	20.5	13.3	51.9	-38.6
0.290	-10.3	20.3	10.0	50.5	-40.5

CONCLUSION

Pass



Tested By

FIELD STRENGTH OF FUNDAMENTAL

TEST DESCRIPTION

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 height 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

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.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFQ	2025-02-21	2026-02-21
Cable	Element	RE 9kHz - 1GHz	TXN	2025-09-02	2026-09-02
Antenna - Loop	ETS Lindgren	6502	AZM	2024-07-24	2026-07-24

FREQUENCY RANGE INVESTIGATED

12.06 MHz TO 15.06 MHz

POWER INVESTIGATED

220VAC/60Hz

CONFIGURATIONS INVESTIGATED

ABBO0336-1
ABBO0336-2

MODES INVESTIGATED

Continuous Passive Tag Read, RFID, 13.56 MHz, OOK
Continuous Transmit, RFID, 13.56 MHz, OOK

FIELD STRENGTH OF FUNDAMENTAL



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-15
Customer:	Abbott	Temperature:	17.4°C
Attendees:	None	Relative Humidity:	23.2%
Customer Project:	None	Bar. Pressure (PMSL):	1032 mb
Tested By:	Jarrod Brenden	Job Site:	PT07
Power:	220VAC/60Hz	Configuration:	ABBO0336-1

TEST PARAMETERS

Run #:	5	Test Distance (m):	10	Ant. Height(s) (m):	1(m)
--------	---	--------------------	----	---------------------	------

COMMENTS

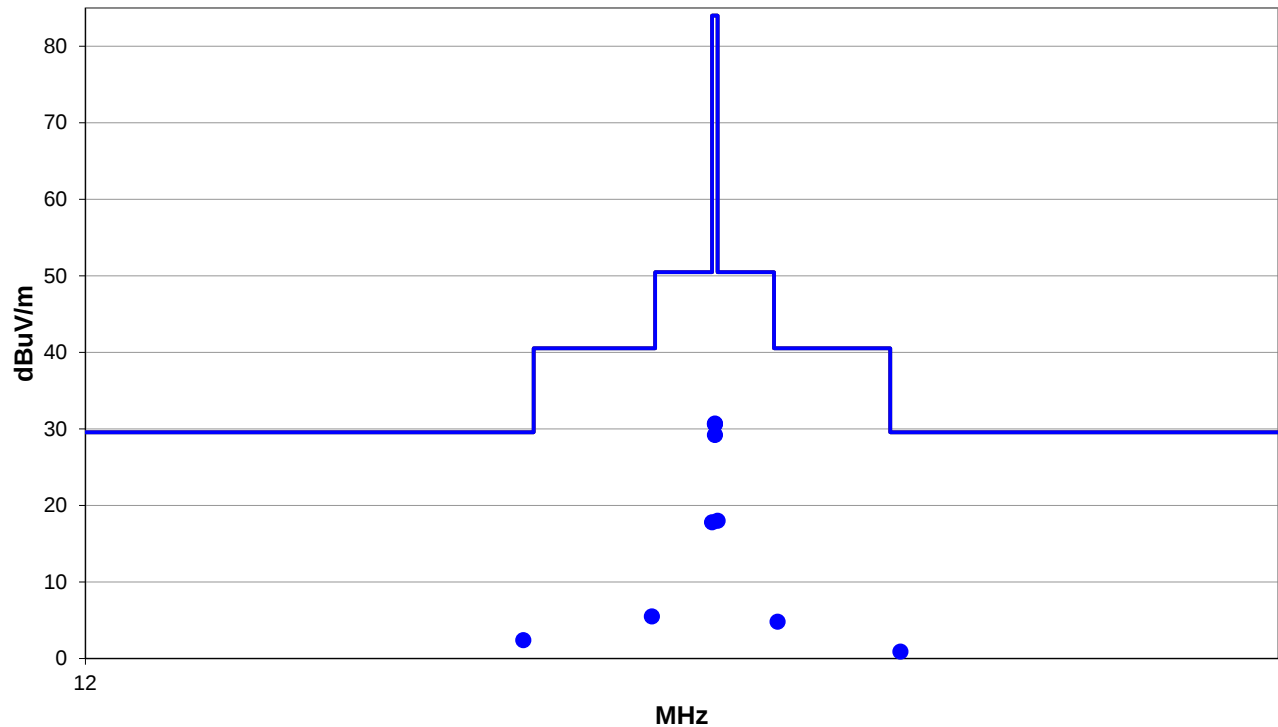
EUT is considered floor-standing.

EUT OPERATING MODES

Continuous Transmit, RFID, 13.56 MHz, OOK

DEVIATIONS FROM TEST STANDARD

None



Run #: 5

PK AV QP

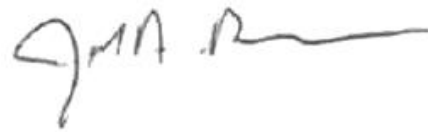
FIELD STRENGTH OF FUNDAMENTAL

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)
13.085	10.0	11.5	1.0	296.0	10.0	0.0	Perp to EUT	QP	-19.1	2.4	29.5	-27.1
14.037	8.5	11.5	1.0	170.0	10.0	0.0	Perp to EUT	QP	-19.1	0.9	29.5	-28.6
13.567	25.6	11.5	1.0	57.0	10.0	0.0	Perp to EUT	QP	-19.1	18.0	50.5	-32.5
13.553	25.4	11.5	1.0	64.0	10.0	0.0	Perp to EUT	QP	-19.1	17.8	50.5	-32.7
13.402	13.1	11.5	1.0	211.0	10.0	0.0	Perp to EUT	QP	-19.1	5.5	40.5	-35.0
13.719	12.4	11.5	1.0	181.0	10.0	0.0	Perp to EUT	QP	-19.1	4.8	40.5	-35.7
13.560	38.3	11.5	1.0	129.0	10.0	0.0	Perp to EUT	QP	-19.1	30.7	84.0	-53.3
13.560	38.2	11.5	1.0	13.0	10.0	0.0	Para to EUT	QP	-19.1	30.6	84.0	-53.4
13.560	36.8	11.5	1.0	169.0	10.0	0.0	Para to GND	QP	-19.1	29.2	84.0	-54.8

CONCLUSION

Pass



Tested By

FIELD STRENGTH OF FUNDAMENTAL



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-15
Customer:	Abbott	Temperature:	17.4°C
Attendees:	None	Relative Humidity:	23.2%
Customer Project:	None	Bar. Pressure (PMSL):	1032 mb
Tested By:	Jarrod Brenden	Job Site:	PT07
Power:	220VAC/60Hz	Configuration:	ABBO0336-2

TEST PARAMETERS

Run #:	10	Test Distance (m):	10	Ant. Height(s) (m):	1(m)
--------	----	--------------------	----	---------------------	------

COMMENTS

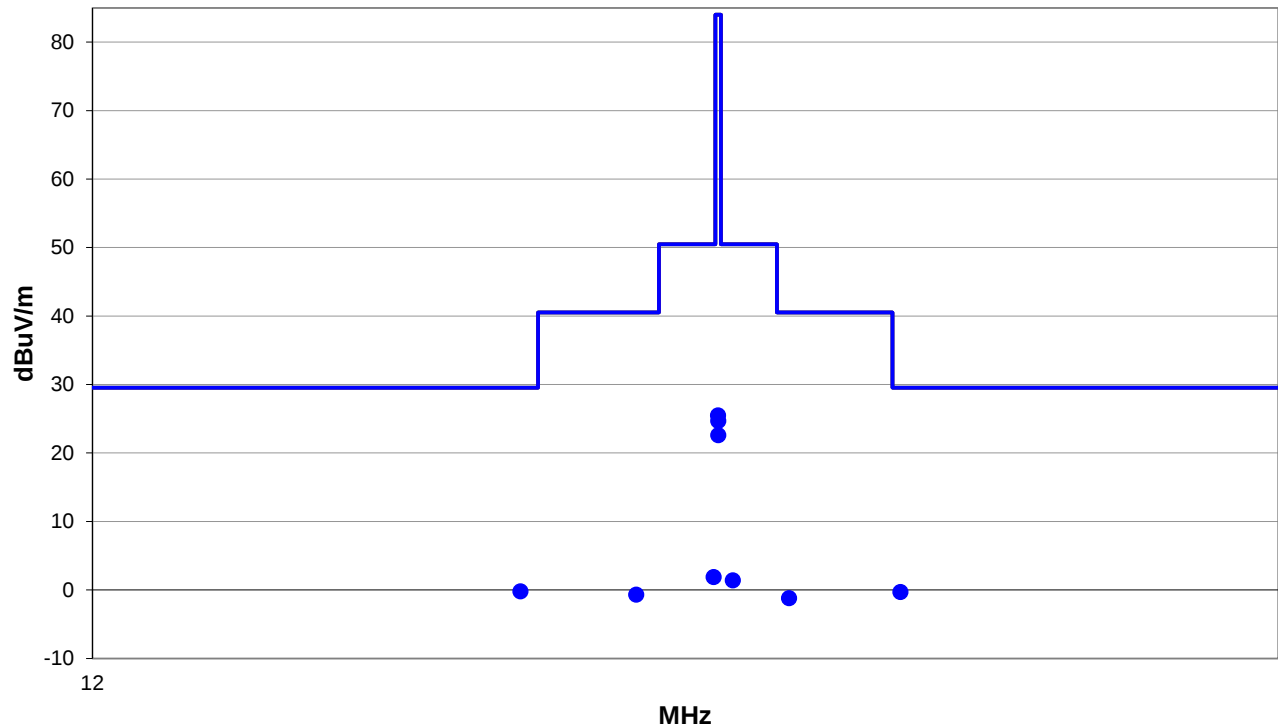
EUT is considered floor-standing.

EUT OPERATING MODES

Continuous Passive Tag Read, RFID, 13.56 MHz, OOK

DEVIATIONS FROM TEST STANDARD

None



Run #: 10

PK AV QP

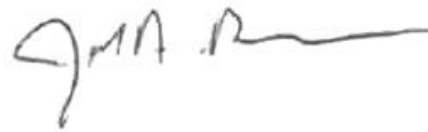
FIELD STRENGTH OF FUNDAMENTAL

RESULTS - Run #10

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)
13.067	7.4	11.5	1.0	175.0	10.0	0.0	Para to EUT	QP	-19.1	-0.2	29.5	-29.7
14.031	7.3	11.5	1.0	266.0	10.0	0.0	Para to EUT	QP	-19.1	-0.3	29.5	-29.8
13.353	6.9	11.5	1.0	237.0	10.0	0.0	Para to EUT	QP	-19.1	-0.7	40.5	-41.2
13.741	6.4	11.5	1.0	55.0	10.0	0.0	Para to EUT	QP	-19.1	-1.2	40.5	-41.7
13.548	9.5	11.5	1.0	99.0	10.0	0.0	Para to EUT	QP	-19.1	1.9	50.5	-48.6
13.597	9.0	11.5	1.0	81.0	10.0	0.0	Para to EUT	QP	-19.1	1.4	50.5	-49.1
13.560	33.1	11.5	1.0	7.0	10.0	0.0	Para to EUT	QP	-19.1	25.5	84.0	-58.5
13.560	32.3	11.5	1.0	12.0	10.0	0.0	Perp to EUT	QP	-19.1	24.7	84.0	-59.3
13.560	30.2	11.5	1.0	148.0	10.0	0.0	Para to GND	QP	-19.1	22.6	84.0	-61.4

CONCLUSION

Pass



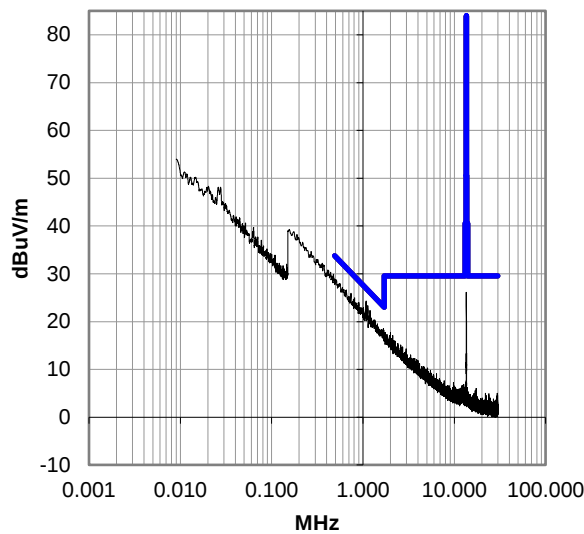
Tested By

FIELD STRENGTH OF FUNDAMENTAL

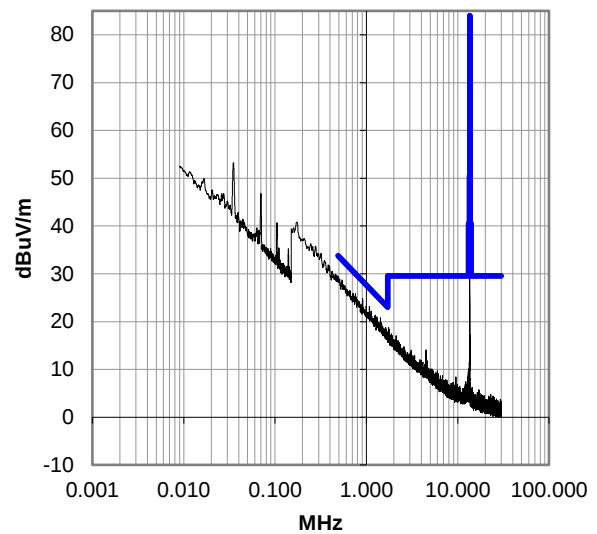
PRESCAN DATA

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.

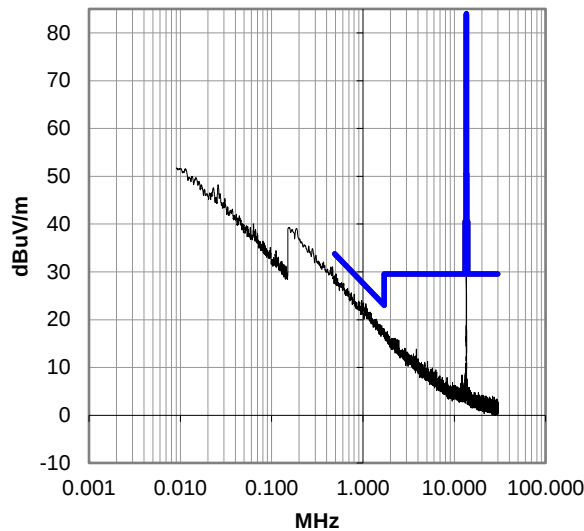
0.009-30 MHz, Run 3
Continuous TX, Perp to EUT



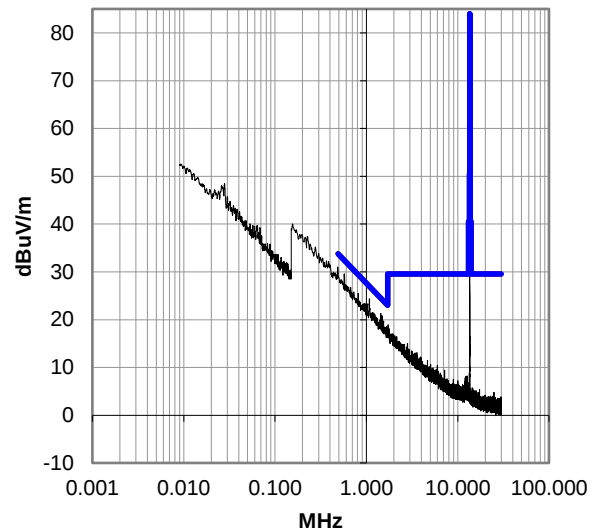
0.009-30 MHz, Run 4
Continuous TX, Para to GND



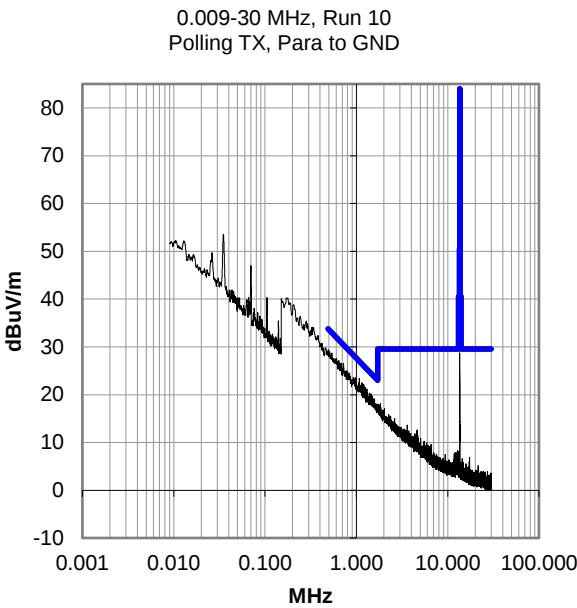
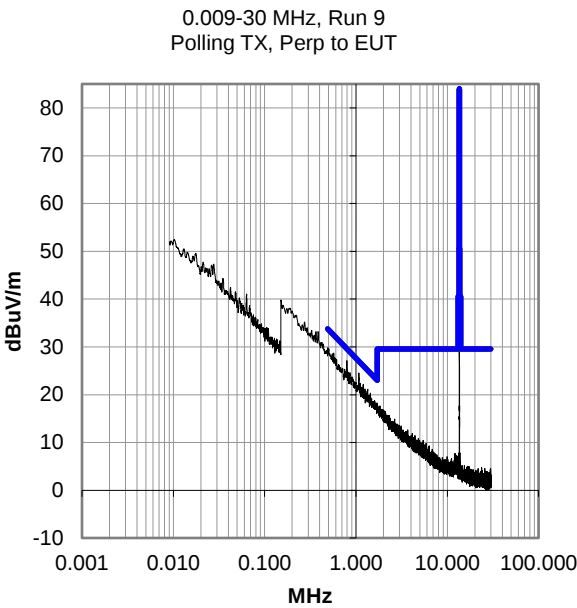
0.009-30 MHz, Run 5
Continuous TX, Pert to EUT



0.009-30 MHz, Run 8
Polling TX, Para to EUT



FIELD STRENGTH OF FUNDAMENTAL



FIELD STRENGTH OF SPURIOUS EMISSIONS (LESS THAN 30 MHz)

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 if required, and adjusting the measurement antenna height and polarization (per ANSI C63.10). An active loop antenna was 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

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: $\text{dBuV/m} - 51.5 \text{ dB} = \text{dBuA/m}$. 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	Keysight	N9010A	AFQ	2025-02-21	2026-02-21
Cable	Element	RE 9kHz - 1GHz	TXN	2025-09-02	2026-09-02
Antenna - Loop	ETS Lindgren	6502	AZM	2024-07-24	2026-07-24

FREQUENCY RANGE INVESTIGATED

9 kHz TO 30 MHz

POWER INVESTIGATED

220VAC/60Hz

CONFIGURATIONS INVESTIGATED

ABBO0336-1
ABBO0336-2

MODES INVESTIGATED

Continuous Passive Tag Read, RFID, 13.56 MHz, OOK
Continuous Transmit, RFID, 13.56 MHz, OOK

FIELD STRENGTH OF SPURIOUS EMISSIONS (LESS THAN 30 MHz)



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-15
Customer:	Abbott	Temperature:	17.4°C
Attendees:	None	Relative Humidity:	23.2%
Customer Project:	None	Bar. Pressure (PMSL):	1032 mb
Tested By:	Jarrod Brenden	Job Site:	PT07
Power:	220VAC/60Hz	Configuration:	ABBO0336-1

TEST PARAMETERS

Run #:	7	Test Distance (m):	10	Ant. Height(s) (m):	1(m)
--------	---	--------------------	----	---------------------	------

COMMENTS

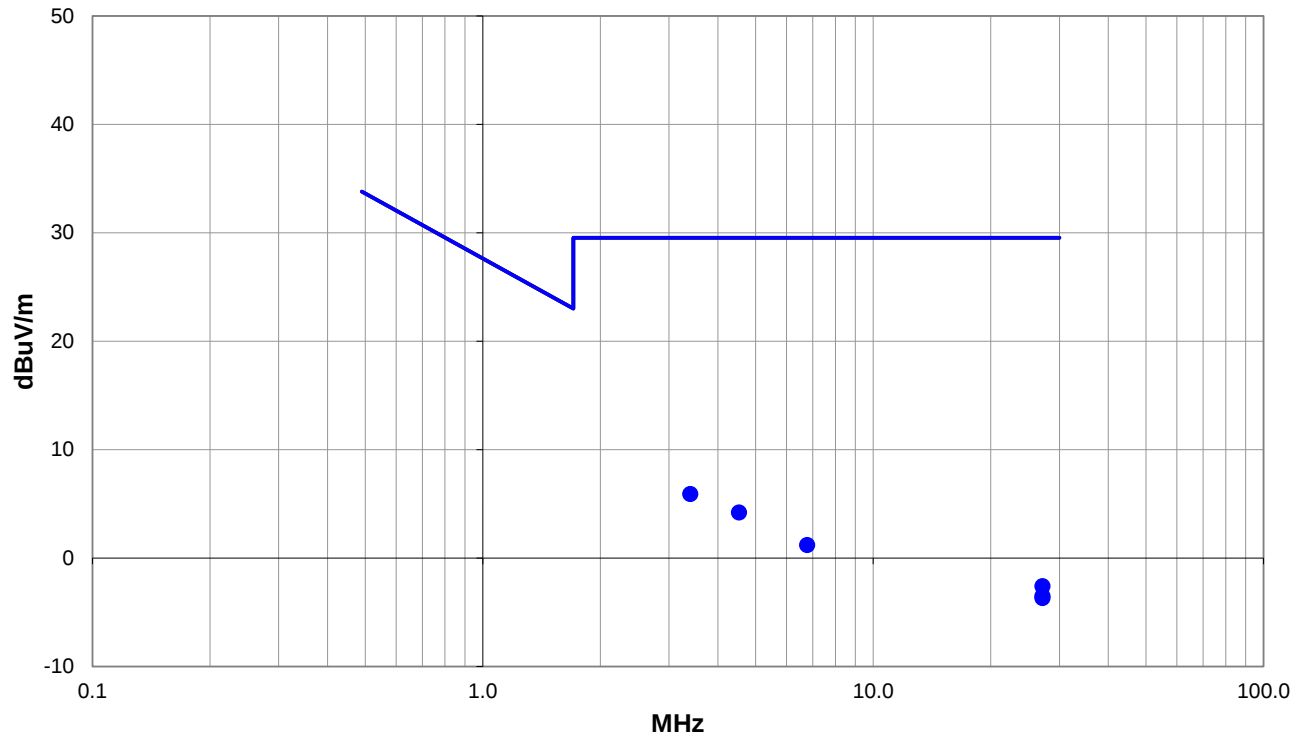
EUT is considered floor-standing.

EUT OPERATING MODES

Continuous Transmit, RFID, 13.56 MHz, OOK

DEVIATIONS FROM TEST STANDARD

None



Run #: 7

PK AV QP

FIELD STRENGTH OF SPURIOUS EMISSIONS (LESS THAN 30 MHz)



RESULTS - Run #7

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)
3.400	13.6	11.4	1.0	185.0	10.0	0.0	Perp to EUT	QP	-19.1	5.9	29.5	-23.6
4.530	11.8	11.5	1.0	161.0	10.0	0.0	Perp to EUT	QP	-19.1	4.2	29.5	-25.3
6.771	8.8	11.5	1.0	150.0	10.0	0.0	Perp to EUT	QP	-19.1	1.2	29.5	-28.3
27.122	6.5	10.0	1.0	144.0	10.0	0.0	Perp to EUT	QP	-19.1	-2.6	29.5	-32.1
27.122	5.6	10.0	1.0	23.0	10.0	0.0	Para to GND	QP	-19.1	-3.5	29.5	-33.0
27.123	5.4	10.0	1.0	208.0	10.0	0.0	Para to EUT	QP	-19.1	-3.7	29.5	-33.2

CONCLUSION
Pass

Tested By

FIELD STRENGTH OF SPURIOUS EMISSIONS (LESS THAN 30 MHz)



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-15
Customer:	Abbott	Temperature:	17.4°C
Attendees:	None	Relative Humidity:	23.2%
Customer Project:	None	Bar. Pressure (PMSL):	1032 mb
Tested By:	Jarrod Brenden	Job Site:	PT07
Power:	220VAC/60Hz	Configuration:	ABBO0336-2

TEST PARAMETERS

Run #:	12	Test Distance (m):	10	Ant. Height(s) (m):	1(m)
--------	----	--------------------	----	---------------------	------

COMMENTS

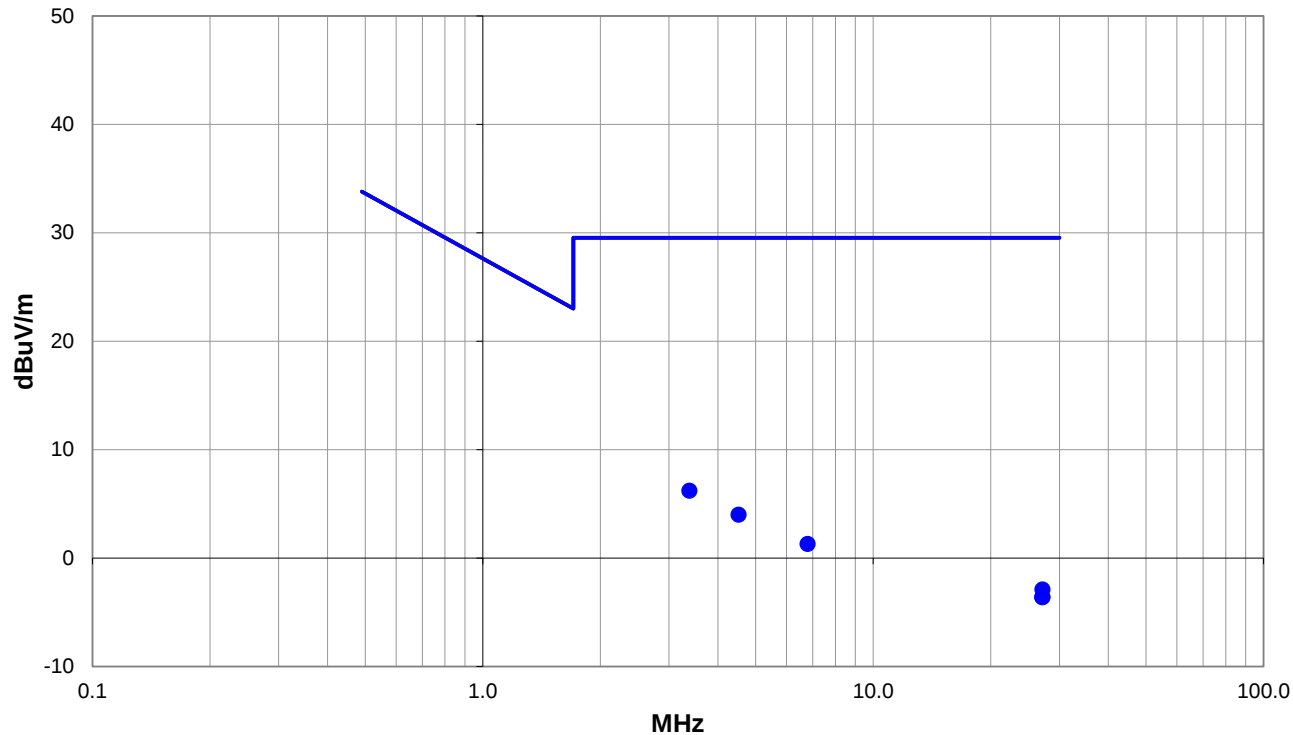
EUT is considered floor-standing.

EUT OPERATING MODES

Continuous Passive Tag Read, RFID, 13.56 MHz, OOK

DEVIATIONS FROM TEST STANDARD

None



Run #: 12

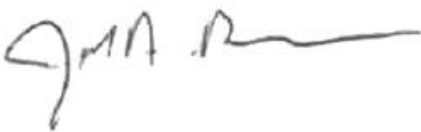
PK AV QP

FIELD STRENGTH OF SPURIOUS EMISSIONS (LESS THAN 30 MHz)

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)
3.383	13.9	11.4	1.0	137.0	10.0	0.0	Perp to EUT	QP	-19.1	6.2	29.5	-23.3
4.522	11.6	11.5	1.0	112.0	10.0	0.0	Perp to EUT	QP	-19.1	4.0	29.5	-25.5
6.789	8.9	11.5	1.0	17.0	10.0	0.0	Perp to EUT	QP	-19.1	1.3	29.5	-28.2
27.121	6.2	10.0	1.0	298.0	10.0	0.0	Perp to EUT	QP	-19.1	-2.9	29.5	-32.4
27.113	5.5	10.0	1.0	263.0	10.0	0.0	Para to EUT	QP	-19.1	-3.6	29.5	-33.1
27.119	5.5	10.0	1.0	271.0	10.0	0.0	Para to GND	QP	-19.1	-3.6	29.5	-33.1

CONCLUSION
Pass



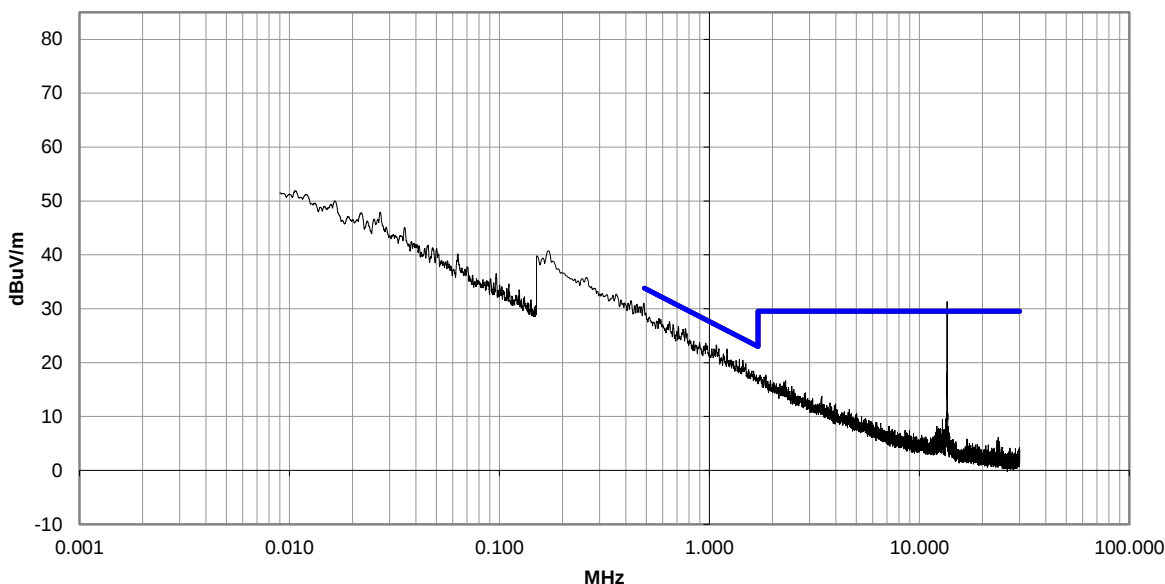
Tested By

FIELD STRENGTH OF SPURIOUS EMISSIONS (LESS THAN 30 MHz)

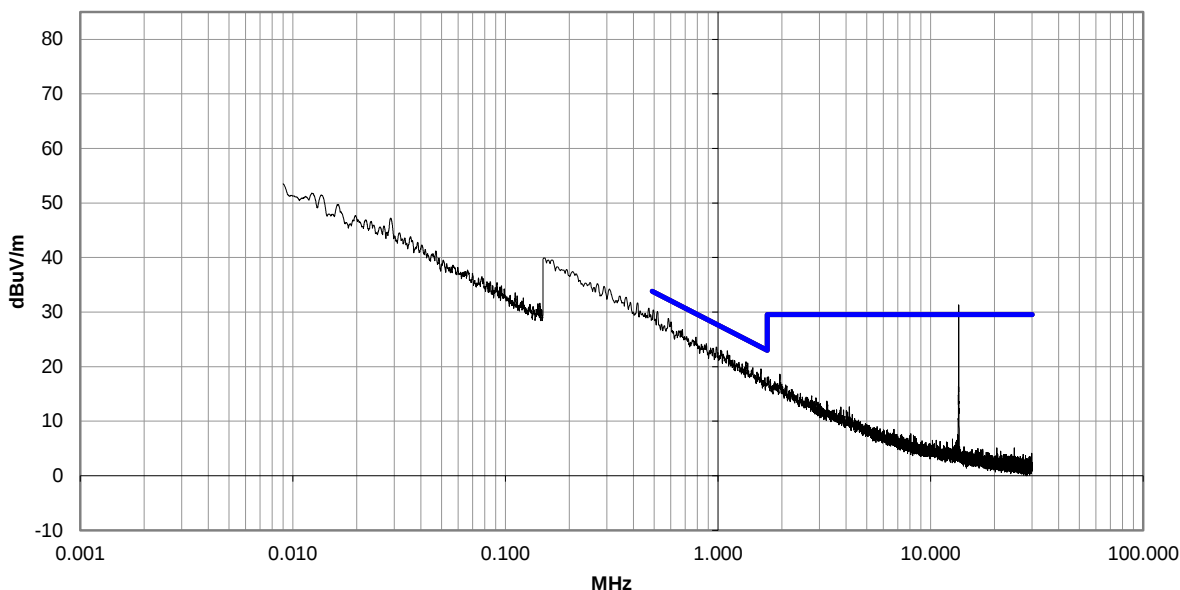
PRESCAN DATA

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.

0.009-30 MHz, Run 7
Continuous TX



0.009-30 MHz, Run 12
Polling TX



FIELD STRENGTH OF SPURIOUS EMISSIONS (GREATER THEN 30 MHz)

TEST DESCRIPTION

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

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

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	AFQ	2025-02-21	2026-02-21
Cable	Element	RE 9kHz - 1GHz	TXN	2025-09-02	2026-09-02
Antenna - Biconilog	ETS Lindgren	3142D	ASV	2025-04-15	2026-04-15
Amplifier - Pre-Amplifier	Fairview Microwave	FMAM63001	PAT	2024-12-27	2025-12-27

FREQUENCY RANGE INVESTIGATED

30 MHz TO 1000 MHz

POWER INVESTIGATED

220VAC/60Hz

CONFIGURATIONS INVESTIGATED

ABBO0336-1
ABBO0336-2

MODES INVESTIGATED

Continuous Passive Tag Read, RFID, 13.56 MHz, OOK
Continuous Transmit, RFID, 13.56 MHz, OOK

FIELD STRENGTH OF SPURIOUS EMISSIONS (GREATER THEN 30 MHz)



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-16
Customer:	Abbott	Temperature:	20.2°C
Attendees:	None	Relative Humidity:	22%
Customer Project:	None	Bar. Pressure (PMSL):	1020 mb
Tested By:	Jarrod Brenden	Job Site:	PT07
Power:	220VAC/60Hz	Configuration:	ABBO0336-1

TEST PARAMETERS

Run #:	18	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
--------	----	--------------------	---	---------------------	-----------

COMMENTS

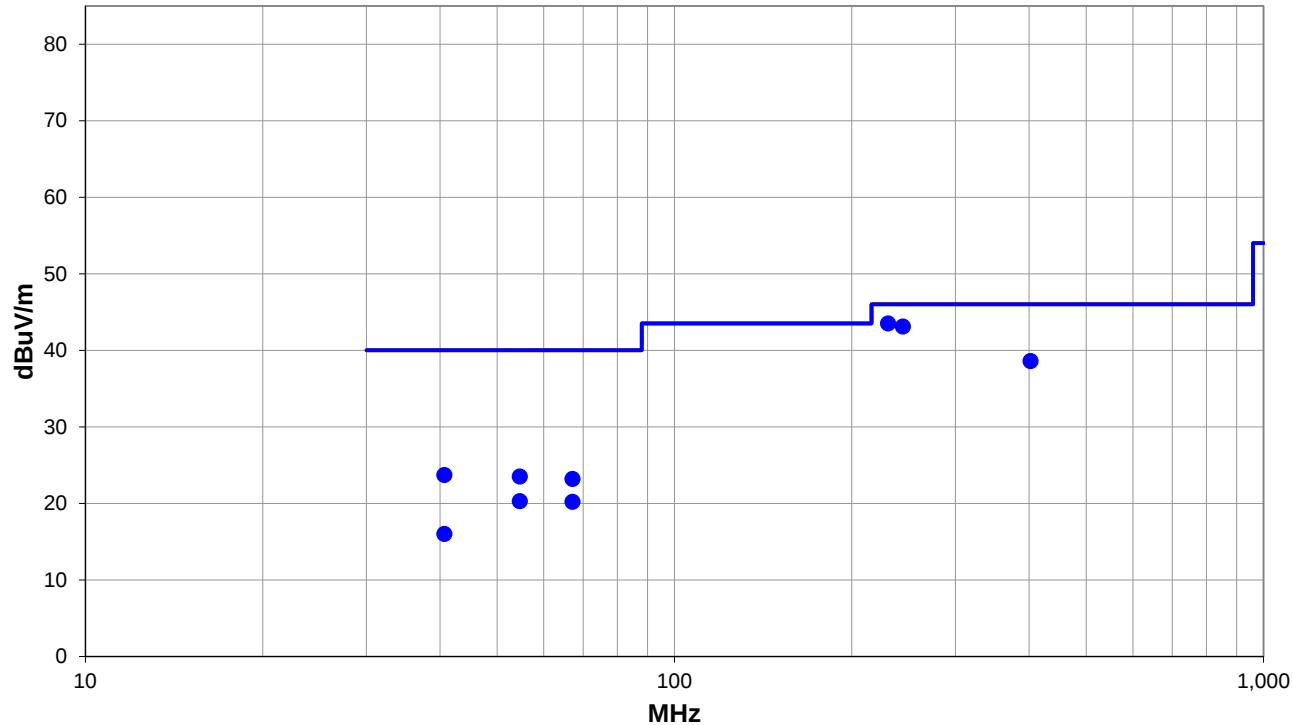
EUT is considered floor-standing. Testing per protocol D000166179/A.

EUT OPERATING MODES

Continuous Transmit, RFID, 13.56 MHz, OOK

DEVIATIONS FROM TEST STANDARD

None



Run #: 18

PK AV QP

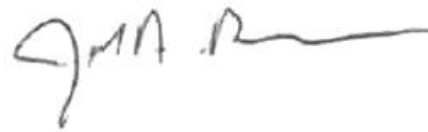
FIELD STRENGTH OF SPURIOUS EMISSIONS (GREATER THEN 30 MHz)

RESULTS - Run #18

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)
230.523	61.9	-18.4	1.27	258.0	3.0	0.0	Horz	QP	0.0	43.5	46.0	-2.5
244.078	62.3	-19.2	1.12	256.0	3.0	0.0	Horz	QP	0.0	43.1	46.0	-2.9
402.172	51.2	-12.6	1.0	285.0	3.0	0.0	Horz	QP	0.0	38.6	46.0	-7.4
40.685	45.1	-21.4	1.0	45.0	3.0	0.0	Vert	QP	0.0	23.7	40.0	-16.3
54.644	49.0	-25.5	1.33	107.0	3.0	0.0	Vert	QP	0.0	23.5	40.0	-16.5
67.126	48.8	-25.6	1.21	306.0	3.0	0.0	Vert	QP	0.0	23.2	40.0	-16.8
54.644	45.8	-25.5	1.97	64.0	3.0	0.0	Horz	QP	0.0	20.3	40.0	-19.7
67.126	45.8	-25.6	2.66	56.0	3.0	0.0	Horz	QP	0.0	20.2	40.0	-19.8
40.684	37.4	-21.4	3.75	111.0	3.0	0.0	Horz	QP	0.0	16.0	40.0	-24.0

CONCLUSION

Pass



Tested By

FIELD STRENGTH OF SPURIOUS EMISSIONS (GREATER THEN 30 MHz)



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-16
Customer:	Abbott	Temperature:	20.2°C
Attendees:	None	Relative Humidity:	22%
Customer Project:	None	Bar. Pressure (PMSL):	1020 mb
Tested By:	Jarrod Brenden	Job Site:	PT07
Power:	220VAC/60Hz	Configuration:	ABBO0336-2

TEST PARAMETERS

Run #:	19	Test Distance (m):	3	Ant. Height(s) (m):	1 to 4(m)
--------	----	--------------------	---	---------------------	-----------

COMMENTS

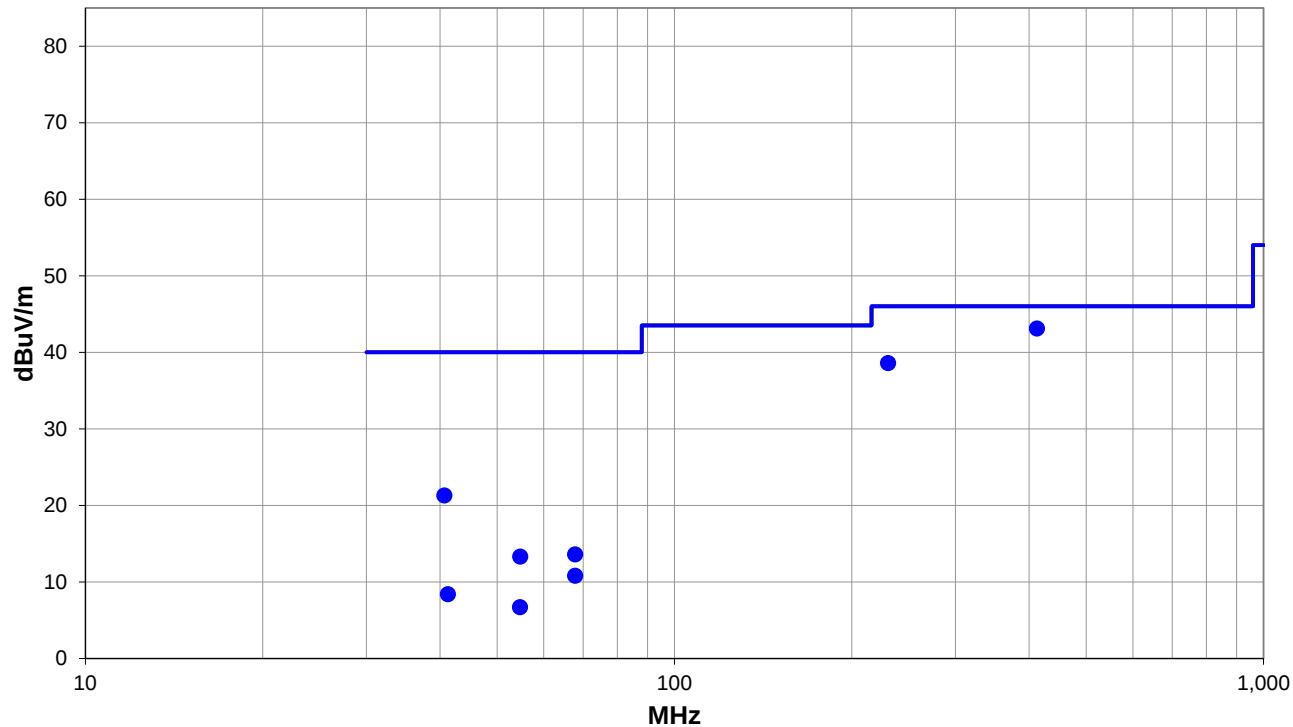
EUT is considered floor-standing. Testing per protocol D000166179/A.

EUT OPERATING MODES

Continuous Passive Tag Read, RFID, 13.56 MHz, OOK

DEVIATIONS FROM TEST STANDARD

None



Run #: 19

PK AV QP

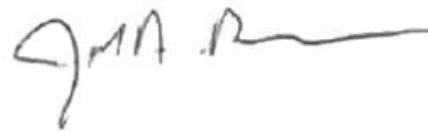
FIELD STRENGTH OF SPURIOUS EMISSIONS (GREATER THEN 30 MHz)

RESULTS - Run #19

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)
412.403	55.9	-12.8	1.01	101.0	3.0	0.0	Horz	QP	0.0	43.1	46.0	-2.9
230.507	57.0	-18.4	1.49	94.0	3.0	0.0	Horz	QP	0.0	38.6	46.0	-7.4
40.683	42.7	-21.4	1.0	349.0	3.0	0.0	Vert	QP	0.0	21.3	40.0	-18.7
67.806	39.1	-25.5	1.0	9.0	3.0	0.0	Vert	QP	0.0	13.6	40.0	-26.4
54.700	38.8	-25.5	1.0	35.0	3.0	0.0	Vert	QP	0.0	13.3	40.0	-26.7
67.816	36.3	-25.5	2.57	43.0	3.0	0.0	Horz	QP	0.0	10.8	40.0	-29.2
41.254	30.0	-21.6	1.0	8.0	3.0	0.0	Horz	QP	0.0	8.4	40.0	-31.6
54.660	32.2	-25.5	2.46	50.0	3.0	0.0	Horz	QP	0.0	6.7	40.0	-33.3

CONCLUSION

Pass



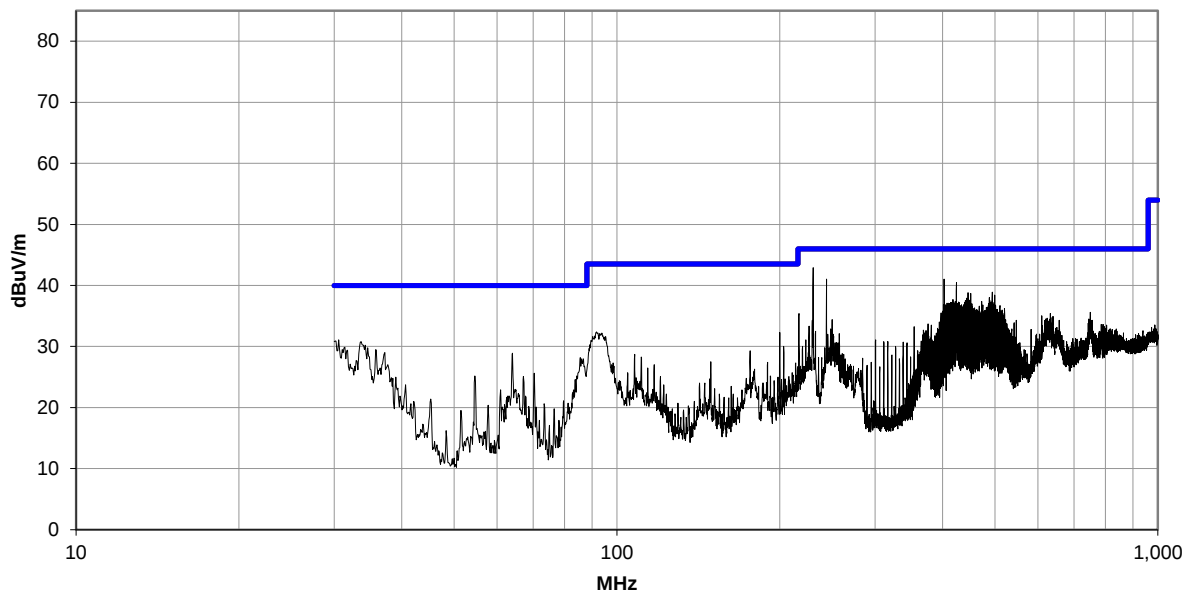
Tested By

FIELD STRENGTH OF SPURIOUS EMISSIONS (GREATER THEN 30 MHz)

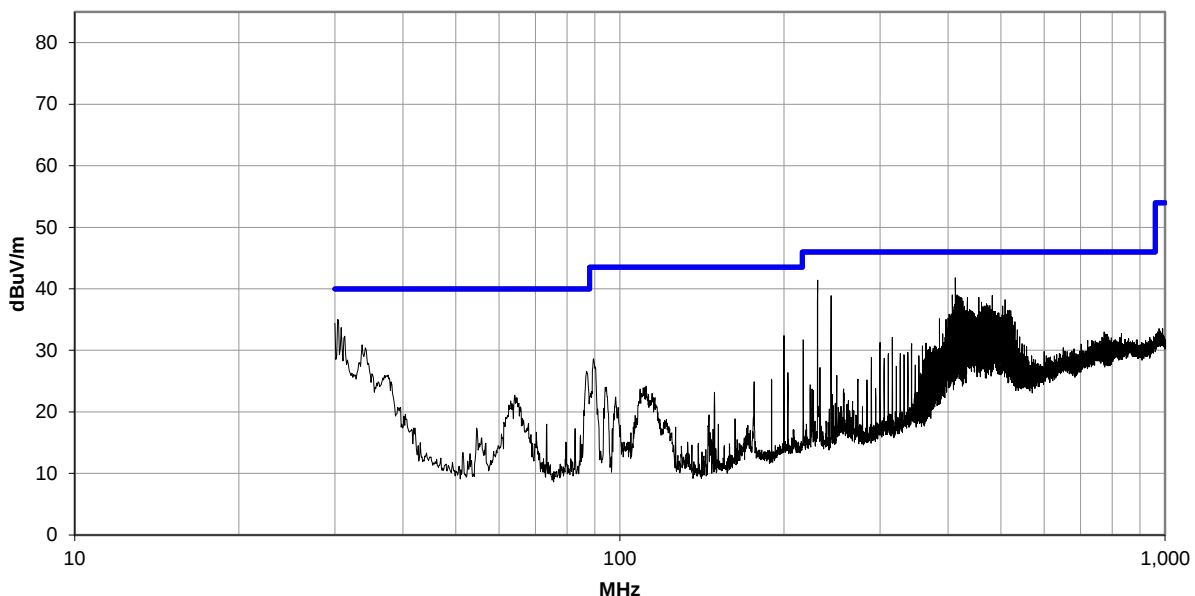
PRESCAN DATA

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.

30-1000 MHz, Run 18
Continuous TX



30-1000 MHz, Run 19
Polling TX



FREQUENCY STABILITY

TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The spectrum analyzer is equipped with a precision frequency reference that exceeds the stability requirement of the EUT.

Measurements were made on the single transmit frequency as called out on the data sheets. Testing was done while the EUT was continuously polling.

The primary supply voltage was varied from 85 % to 115% of the nominal voltage while at ambient temperature. Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range of -20 ° to +50° C and at 10°C intervals.

The requirement of a frequency tolerance of $\pm 0.01\%$ is equivalent to 100 ppm
The formula to check for compliance is:

$$\text{ppm} = (\text{Measured Frequency} / \text{Measured Nominal Frequency} - 1) * 1,000,000$$

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
Probe - Near Field Set	ETS Lindgren	7405	IPS	NCR	NCR
Chamber - Temperature/Humidity	Cincinnati Sub Zero (CSZ)	ZPH-8-2-SCT/AC	TBH	NCR	NCR
Power Source/Analyzer	Hewlett Packard	6841A	THC	NCR	NCR
Thermometer	Fluke	51 II	WC066253	2025-07-01	2026-07-01

FREQUENCY STABILITY

EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-18
Customer:	Abbott	Temperature:	28.7°C
Attendees:	None	Relative Humidity:	38.4%
Customer Project:	None	Bar. Pressure (PMSL):	1009 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	220VAC/60Hz	Configuration:	ABBO0336-1

COMMENTS

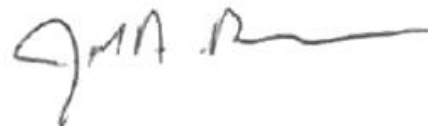
EUT is considered floor-standing. Testing per protocol D000166179/A.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

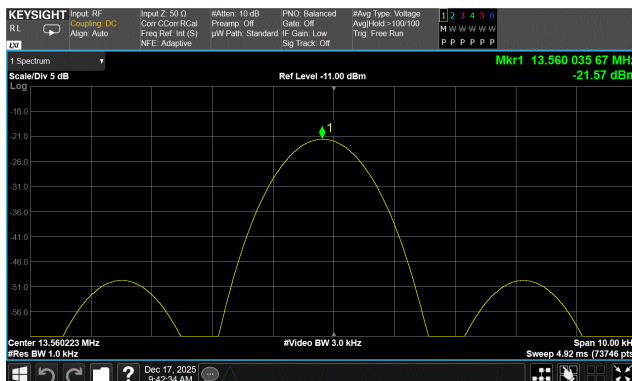


Tested By

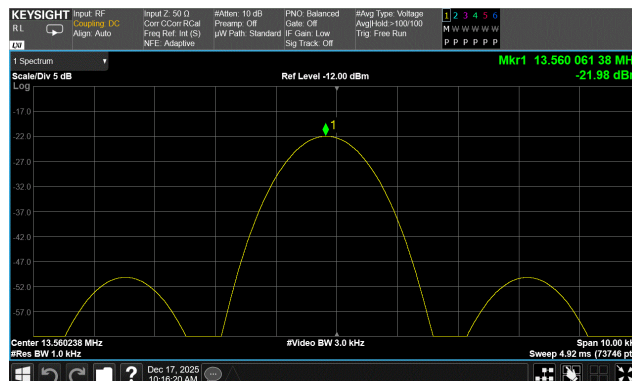
TEST RESULTS

	Measured Value (MHz)	Nominal Value (MHz)	Error (ppm)	Limit (ppm)	Results
13.56 MHz RFID, ISO/IEC 15693					
Normal Conditions	13.56003567	13.56003567	0	100	Pass
Extreme Voltage 115%	13.56006138	13.56003567	1.9	100	Pass
Extreme Voltage 85%	13.56005123	13.56003567	1.15	100	Pass
Extreme Temperature +50°C	13.55994298	13.56003567	6.84	100	Pass
Extreme Temperature +40°C	13.55997935	13.56003567	4.15	100	Pass
Extreme Temperature +30°C	13.56002567	13.56003567	0.74	100	Pass
Extreme Temperature +20°C	13.56007333	13.56003567	2.78	100	Pass
Extreme Temperature +10°C	13.56012189	13.56003567	6.36	100	Pass
Extreme Temperature +0°C	13.56015554	13.56003567	8.84	100	Pass
Extreme Temperature -10°C	13.56016819	13.56003567	9.77	100	Pass
Extreme Temperature -20°C	13.56015551	13.56003567	8.84	100	Pass

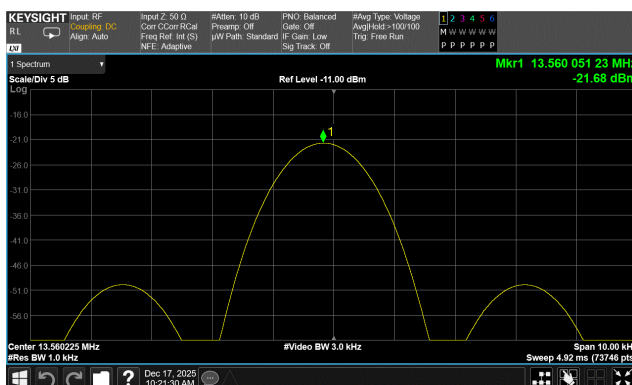
FREQUENCY STABILITY



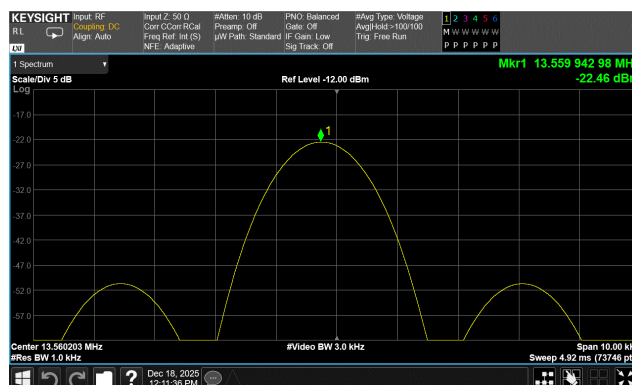
13.56 MHz RFID, ISO/IEC 15693
Normal Conditions



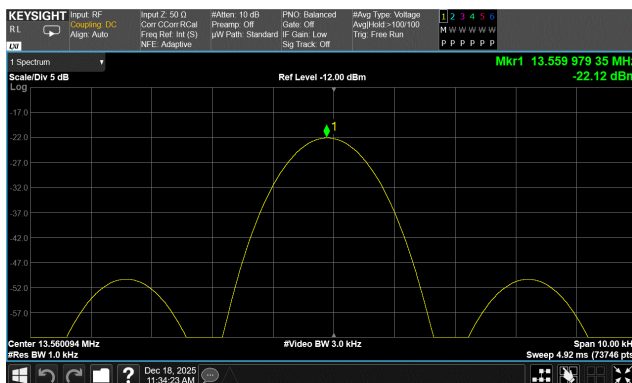
13.56 MHz RFID, ISO/IEC 15693
Extreme Voltage 115%



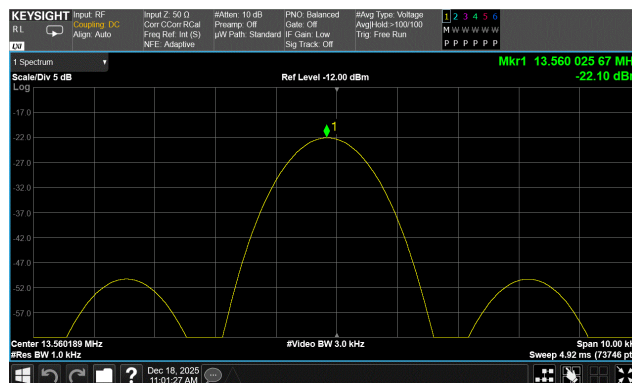
13.56 MHz RFID, ISO/IEC 15693
Extreme Voltage 85%



13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature +50°C

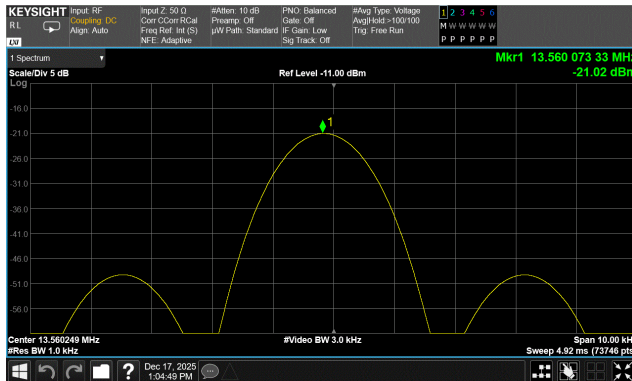


13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature +40°C

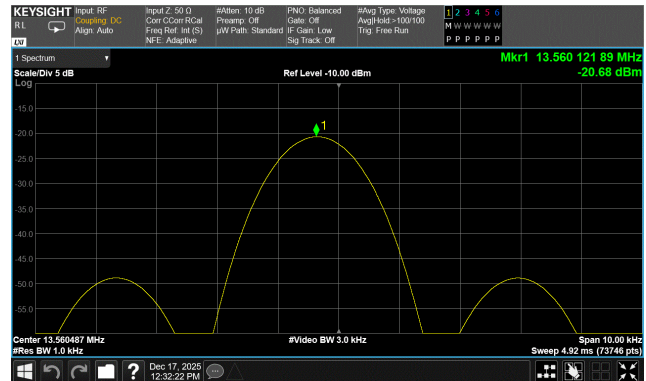


13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature +30°C

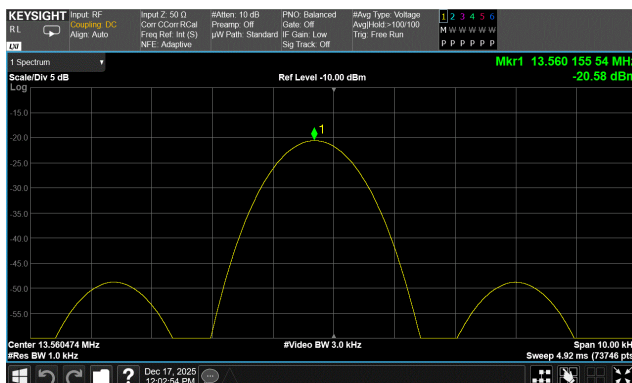
FREQUENCY STABILITY



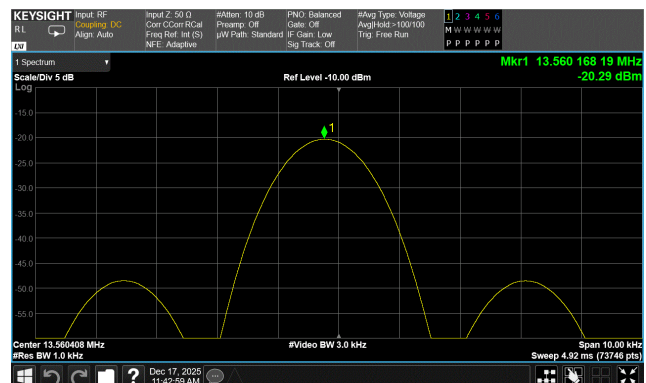
13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature +20°C



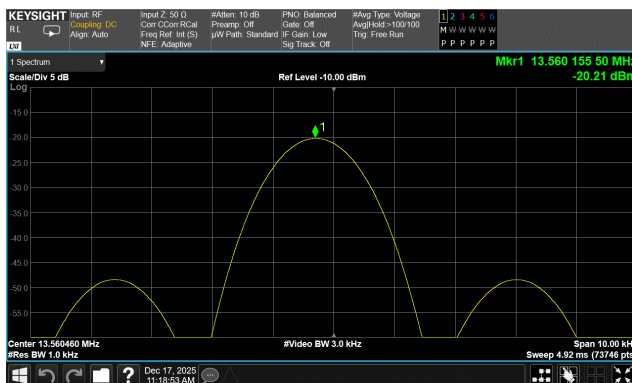
13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature +10°C



13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature +0°C



13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature -10°C



13.56 MHz RFID, ISO/IEC 15693
Extreme Temperature -20°C

EMISSIONS BANDWIDTH (20 DB)

TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

As defined in FCC 15.215 Part (c), intentional radiators must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designed in the rule section under which the equipment is operated.

The 20 dB bandwidth must be contained within the band 13.110-14.010 MHz. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

The resolution bandwidth (RBW) of the spectrum analyzer was set to the range of 1% to 5% of the emissions bandwidth (EBW) and video bandwidth (VBW) bandwidth was set to at least 3 times the resolution bandwidth. The analyzer sweep time was set to auto and a peak detector was used.

The spectrum analyzer bandwidth measurement function was used to measure the 20 dB bandwidth.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
Probe - Near Field Set	ETS Lindgren	7405	IPS	NCR	NCR
Power Source/Analyzer	Hewlett Packard	6841A	THC	NCR	NCR

EMISSIONS BANDWIDTH (20 DB)



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-17
Customer:	Abbott Laboratories	Temperature:	28.8°C
Attendees:	None	Relative Humidity:	38.1%
Customer Project:	None	Bar. Pressure (PMSL):	1009 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	220VAC/60Hz	Configuration:	ABBO0336-1

COMMENTS

EUT is considered floor-standing. Testing per protocol D000166179/A.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

Tested By

TEST RESULTS

	Value		Limit	Result
			13.110 MHz > BW < 14.010 MHz	
Continuous Transmit, RFID, 13.56 MHz, OOK	Normal Conditions	119.2 kHz	Within	Pass

EMISSIONS BANDWIDTH (20 DB)



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2026-03-23
Customer:	Abbott Laboratories	Temperature:	22.1°C
Attendees:	None	Relative Humidity:	52.2%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	220VAC/60Hz	Configuration:	ABBO0336-2

COMMENTS

EUT is considered floor-standing. Testing per protocol D000166179/A.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

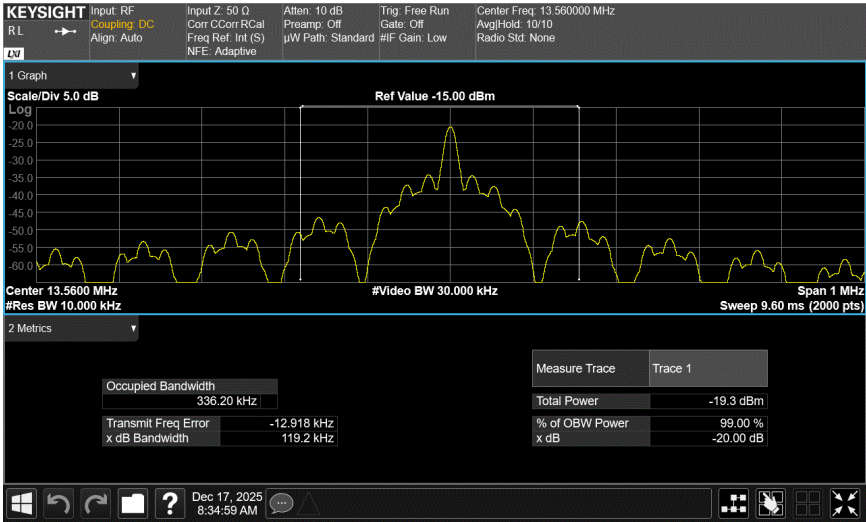
Pass

Tested By

TEST RESULTS

		Limit	
	Value	13.110 MHz < BW < 14.010 MHz	Result
Continuous Passive Transmit, RFID, 13.56 MHz, OOK			
Normal Conditions	121.32 kHz	N/A	N/A

EMISSIONS BANDWIDTH (20 DB)



Continuous Transmit, RFID, 13.56 MHz, OOK
Normal Conditions



Continuous Passive Transmit, RFID, 13.56 MHz, OOK
Normal Conditions

OCCUPIED BANDWIDTH

TEST DESCRIPTION

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth as defined in RSS-Gen.

The 99% occupied bandwidth was measured with the EUT configured for continuous modulated operation.

The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

The resolution bandwidth (RBW) of the spectrum analyzer was set to the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) bandwidth was set to at least 3 times the resolution bandwidth. The analyzer sweep time was set to auto to prevent video filtering or averaging. A sample detector was used unless the device was not able to be operated in a continuous transmit mode, in which case a peak detector was used.

The spectrum analyzer occupied bandwidth measurement function was used to sum the power of the transmission in linear terms to obtain the 99% bandwidth.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight Technologies	N9030B	AGA	2025-06-09	2026-06-09
Probe - Near Field Set	ETS Lindgren	7405	IPS	NCR	NCR
Power Source/Analyzer	Hewlett Packard	6841A	THC	NCR	NCR

OCCUPIED BANDWIDTH

EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2025-12-17
Customer:	Abbott Laboratories	Temperature:	28.8°C
Attendees:	None	Relative Humidity:	38.3%
Customer Project:	None	Bar. Pressure (PMSL):	1009 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	220VAC/60Hz	Configuration:	ABBO0336-1

COMMENTS

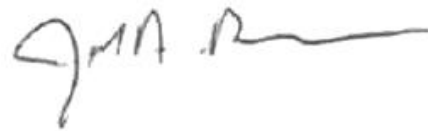
EUT is considered floor-standing. Testing per protocol D000166179/A.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass



Tested By

TEST RESULTS

		Limit		
	Value	13.110 MHz < BW < 14.010 MHz		Result
Continuous Transmit, RFID, 13.56 MHz, OOK				
Normal Conditions	230.846 kHz	Within		Pass

OCCUPIED BANDWIDTH



EUT:	SGI-SAL AccessPoint	Work Order:	ABBO0336
Serial Number:	SGISALAP0002	Date:	2026-03-23
Customer:	Abbott Laboratories	Temperature:	22.1°C
Attendees:	None	Relative Humidity:	52.2%
Customer Project:	None	Bar. Pressure (PMSL):	1018 mbar
Tested By:	Jarrod Brenden	Job Site:	PT14
Power:	220VAC/60Hz	Configuration:	ABBO0336-2

COMMENTS

EUT is considered floor-standing. Testing per protocol D000166179/A.

DEVIATIONS FROM TEST STANDARD

None

CONCLUSION

Pass

Tested By

TEST RESULTS

		Limit		
	Value	13.110 MHz < BW < 14.010 MHz		Result
Continuous Passive Transmit, RFID, 13.56 MHz, OOK				
Normal Conditions	330.098 kHz	Within		Pass

OCCUPIED BANDWIDTH



Continuous Transmit, RFID, 13.56 MHz, OOK
Normal Conditions



Continuous Passive Transmit, RFID, 13.56 MHz, OOK
Normal Conditions

End of Test Report