

Assa Abloy Access and Egress Hardware Group, Inc.

TEST REPORT

SCOPE OF WORK

Emissions Testing – NTM613-ACC Push Button (BLE & 13.56 MHz RFID), NTM623-ACC Touch Screen (BLE & 13.56 MHz RFID)

REPORT NUMBER

106679509BOX-001.1

ISSUE DATE

September 24, 2026

[REVISED DATE]

September 29, 2026

DOCUMENT CONTROL NUMBER

Non-Specific Radio Report Shell Rev. June 2024
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ANTENNA GAIN CALCULATION REPORT

Report Number: 106679509BOX-001.1

Project Number: G106679509

Report Issue Date: September 24, 2026

Report Revision Date: September 29, 2026

Model(s) Tested: NTM613-ACC Push Button
NTM623-ACC Touch Screen

Model(s) Partially Tested: None

Model(s) Not Tested but declared equivalent by the client: See Section 4.0

Standards: CFR47 FCC Part 15 Subpart C, Section 15.225: 09/2026
CFR47 FCC Part 15 Subpart C, Section 15.247: 09/2026
ISED RSS-247 Issue 4 July 24, 2025
ISED RSS-210 Issue 11 June 25, 2024
RSS-GEN Issue 6 July 30, 2026

FCC IDs: U4A-NTM600PBACC, U4A-NTT600TSACC
ICs: NTM600PBACC, 6982A- NTT600TSACC

Tested by:
Intertek (ISED CAB ID: US0091)
70 Codman Hill Road
Boxborough, MA 01719
USA

Client:
Assa Abloy Access and Egress Hardware Group, Inc.
225 Episcopal Road
Berlin, CT 06037
USA

Report prepared by



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Report reviewed by



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1 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 4.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

2 Test Summary

Section	Test full name	Result
3	Client Information	
4	Description of Equipment Under Test and Variant Models	
5	System Setup and Method	
6	Antenna Gain Calculation CFR47 FCC Part 15 Subpart C, Section 15.225: 09/2026 CFR47 FCC Part 15 Subpart C, Section 15.247: 09/2026 ISED RSS-247 Issue 4 July 24, 2025 ISED RSS-210 Issue 11 June 25, 2024	N/A
7	Revision History	--

3 Client Information

This EUT was tested at the request of:

Client: Assa Abloy Access and Egress Hardware Group, Inc.
225 Episcopal Road
Berlin, CT 06037
USA

Contact: Dave Debiase
Telephone: 203-821-5724
Email: dave.debiase@assaabloy.com

4 Description of Equipment Under Test and Variant Models

Manufacturer: Assa Abloy Access and Egress Hardware Group, Inc.
225 Episcopal Road
Berlin, CT 06037
USA

Equipment Under Test					
Description	Manufacturer	Model No.	Serial No.	HVIN	PMN
Real-time wireless access control BLE	Assa Abloy Access and Egress Hardware Group, Inc.	NTM613-ACC Push Button	A35XP100314	NTM613-ACC	NTM613-ACC
		NTM623-ACC Touch Screen	A35XP100315	NTM623-ACC	NTM623-ACC
RFID Real-time wireless access control		NTM613-ACC Push Button	A34X0A01573	NTM613-ACC	NTM613-ACC
		NTM623-ACC Touch Screen	A35XP100315	NTM623-ACC	NTM623-ACC

Receive Date:	09/19/2026
Received Condition:	Good
Type:	Production

Description of Equipment Under Test (provided by client)
Real-time wireless access control

Equipment Under Test Power Configuration			
Rated Voltage	Rated Current	Rated Frequency	Number of Phases
6 V (4 x 1.5 V Batteries)	1.5 A	DC	N/A

Operating modes of the EUT:

No.	Descriptions of EUT Exercising
1	BLE – Programmed to transmit continuously.
2	RFID – Pre-programmed to transmit continuously.

Software used by the EUT:

No.	Descriptions of EUT Exercising
1	BLE – Used Nordic Test Script
2	RFID – No Software Used

13.56 MHz NTM613-ACC Push Button Characteristics	
Frequency Band(s)	13.56 MHz
Modulation Type(s)	ASK
Field Strength at 3m	49.39 dBuV/m
Conducted Power	9.77 dBm
Test Channels	13.56 MHz
Equipment Type	Standalone
Antenna Type and Gain	PCB Pattern Antenna

13.56 MHz NTM623-ACC Touch Screen Characteristics	
Frequency Band(s)	13.56 MHz
Modulation Type(s)	ASK
Field Strength at 3m	50.55 dBuV/m
Conducted Power	10.20 dBm
Test Channels	13.56 MHz
Equipment Type	Standalone
Antenna Type and Gain	PCB Pattern Antenna

BLE NTM613-ACC Push Button Characteristics	
Frequency Band(s)	2402-2480 MHz
Modulation Type(s)	GFSK
Conducted Power	4.97 dBm
Test Channels	Low: 2402 MHz, Mid: 2440 MHz, High: 2480 MHz
Equipment Type	Standalone
Antenna Type and Gain	PCB Pattern Antenna

BLE NTM623-ACC Touch Screen Characteristics	
Frequency Band(s)	2402-2480 MHz
Modulation Type(s)	GFSK
Conducted Power	4.97 dBm
Test Channels	Low: 2402 MHz, Mid: 2440 MHz, High: 2480 MHz
Equipment Type	Standalone
Antenna Type and Gain	PCB Pattern Antenna

Variant Models:

The following variant models were not tested as part of this evaluation, but have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

Pushbutton: NTM613-NR, NTM618-ACC, NTM618-NR, NTM633-ACC, NTM633-NR, NTM638-ACC, NTM638-NR

Touschscreen: NTM623-NR, NTM628-ACC, NTM628-NR, NTM643-ACC, NTM643-NR, NTM648-ACC, NTM648-NR

5 System Setup and Method

Cables					
ID	Description	Length (m)	Shielding	Ferrites	Termination
--	USB	2*	Shielded	None	Laptop

*Extended another 10m to remotely locate the laptop.

Support Equipment			
Description	Manufacturer	Model Number	Serial Number
Laptop	DELL	P165G	ST:47SSFY3

5.1 Method:

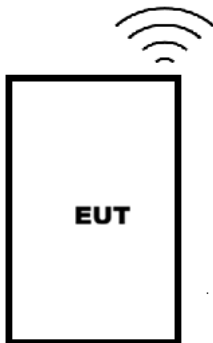
Configuration as required by ANSI C63.10-2020, ANSI C63.10-2020/Cor1-2023, and RSS-GEN Issue 6 July 30, 2026.

5.2 EUT Block Diagram:

BLE Setup:



RFID Setup:



6 Antenna Gain Calculation

6.1 Method

Tests are performed in accordance with ANSI C63.10-2020, ANSI C63.10-2020/Cor1-2023.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucisp
Radiated Emissions, 10m	30-1000 MHz	5.6 dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	5.3 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.5 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.2 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	4.8 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	4.8 dB	5.5 dB

As shown in the table above our radiated emissions U_{lab} is less than the corresponding U_{CISPR} reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG$$

Where

- FS = Field Strength in dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 52.0 dB μ V
 AF = 7.4 dB/m
 CF = 1.6 dB
 AG = 29.0 dB
 FS = 32 dB μ V/m

To convert from dB μ V to μ V or mV the following was used:

$UF = 10^{(NF / 20)}$ where UF = Net Reading in μ V
 NF = Net Reading in dB μ V

Example:

$FS = RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0$
 $UF = 10^{(32 \text{ dB}\mu\text{V} / 20)} = 39.8 \mu\text{V/m}$

Alternately, when BAT-EMC Emission Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". The "Correction" includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the "Level" column.

6.2 Test Equipment Used:

Test equipment used for antenna port conducted power

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV009	weather station	Davis Instruments	6351 Vantage VUE	DAV009	04/06/2026	04/06/2027
ROS005-1	Signal and Spectrum Analyzer	Rohde and Shwartz	FSW43	100646	01/29/2026	01/29/2027
MIN27	Attenuator 20dB 50watt DC-18Ghz	Mini Circuits	BW-N20W50	VY6127411835	09/16/2025	09/16/2026

Software Utilized:

Name	Manufacturer	Version
None		

Test equipment used for 13.56 MHz RFID

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	03/06/2026	03/06/2027
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	10/29/2025	10/29/2026
HS004'	2M long	Huber suhner	SF118A	505108/118A	10/09/2025	10/09/2026
HS013'	12.5M long	Hubner Suhner	SF106	537114/6	10/09/2025	10/09/2026
HS005'	2M long	Huber suhner	SF118A	505109/118A	10/09/2025	10/09/2026
HS009'	8m long	Hubner Suhner	SF106	537115/6	10/09/2025	10/09/2026
CBLBNC11'	25' BNC to BNC cable	MookEERF	RG58	CBLBNC11	05/19/2026	05/19/2027
145019'	Active Loop Antenna (9 KHz to 30 MHz)	EMCO	6502/1	9902-3267	03/26/2026	03/26/2027

Software Utilized:

Name	Manufacturer	Version
BAT EMC	Nexio	2023.0.9.0

Test equipment used for BLE

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV006'	Weather Station	Davis	6250	MS191218071	03/06/2026	03/06/2027
ROS011'	ESW44 receiver 1Hz-44GHz	Rhode and Schwarz	ESW44	103296	10/29/2025	10/29/2026
HS004'	2M long	Huber suhner	SF118A	505108/118A	10/09/2025	10/09/2026
HS013'	12.5M long	Hubner Suhner	SF106	537114/6	10/09/2025	10/09/2026
HS005'	2M long	Huber suhner	SF118A	505109/118A	10/09/2025	10/09/2026
HS009'	8m long	Hubner Suhner	SF106	537115/6	10/09/2025	10/09/2026
ETS005	1-18GHz horn antenna	ETS-Lindgren	3117	00218279	11/17/2025	11/17/2026

Software Utilized:

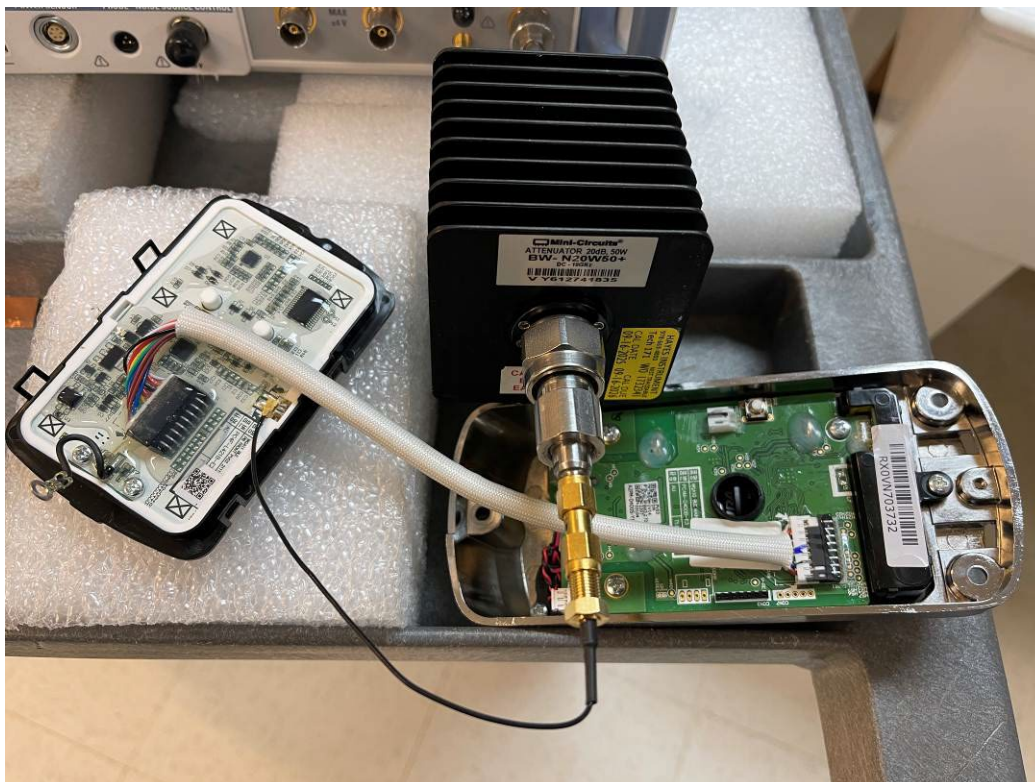
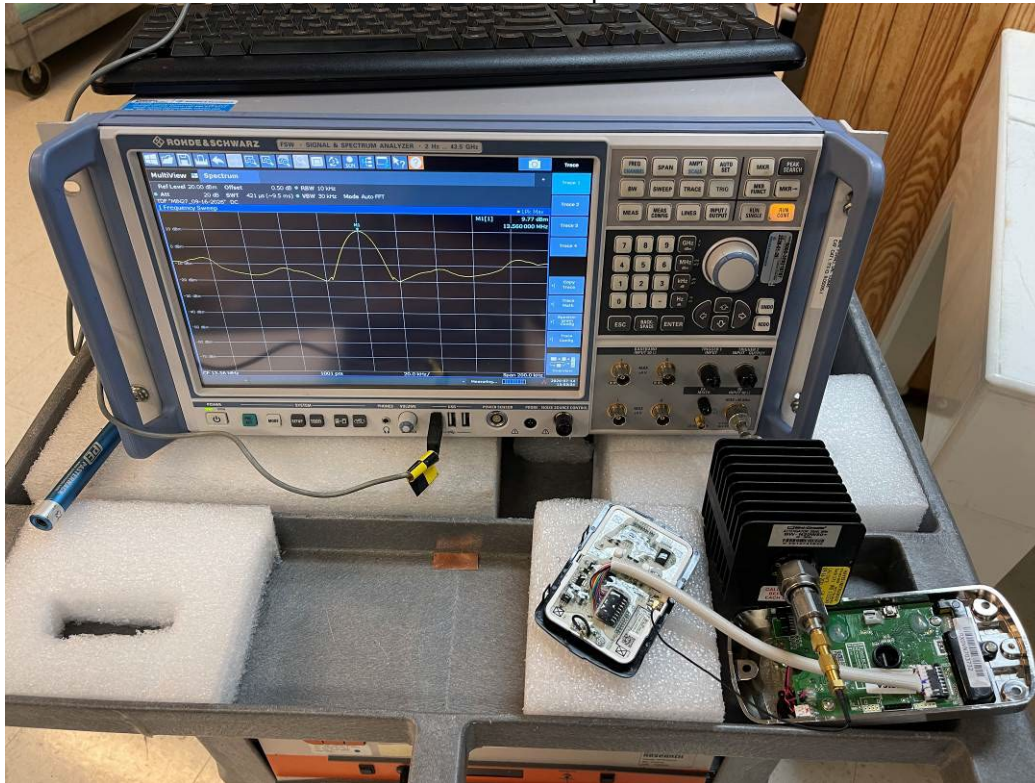
Name	Manufacturer	Version
BAT EMC	Nexio	2023.0.9.0

6.3 Results:

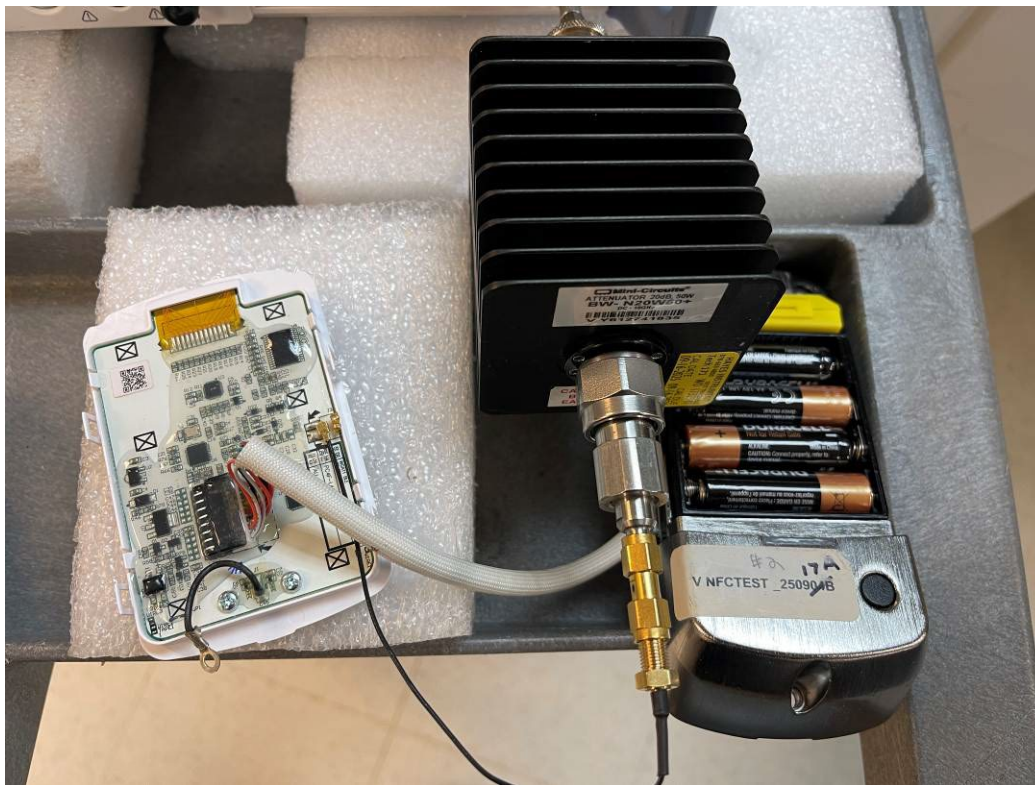
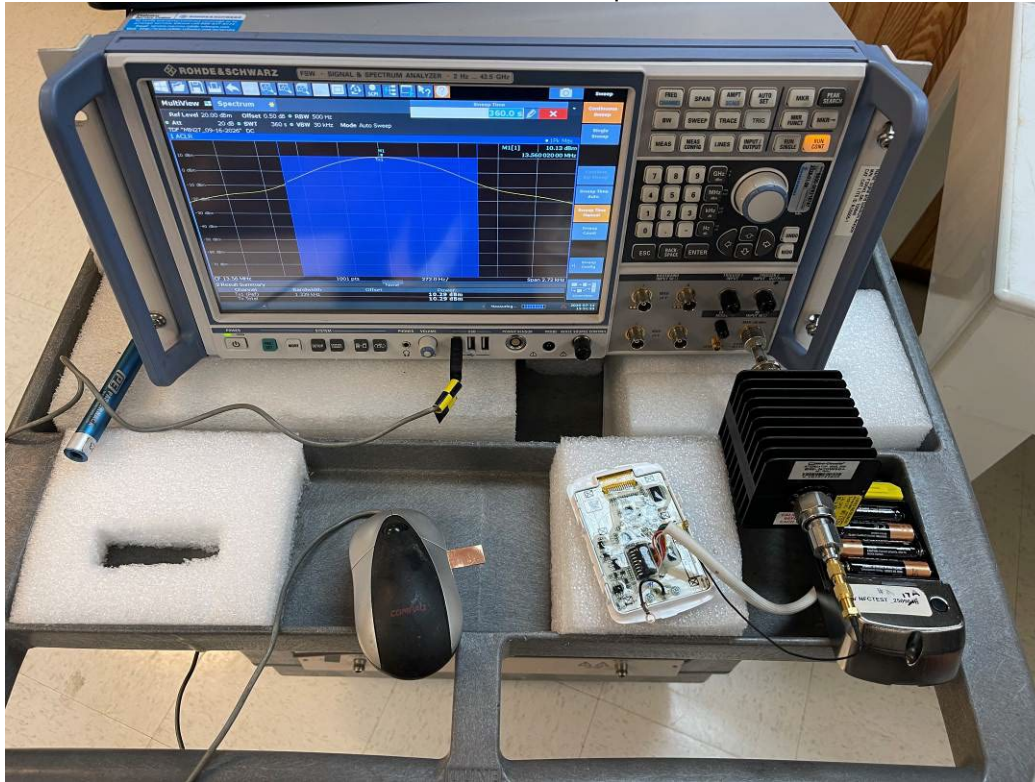
The sample tested was found to Comply.

6.4 Setup Photographs:

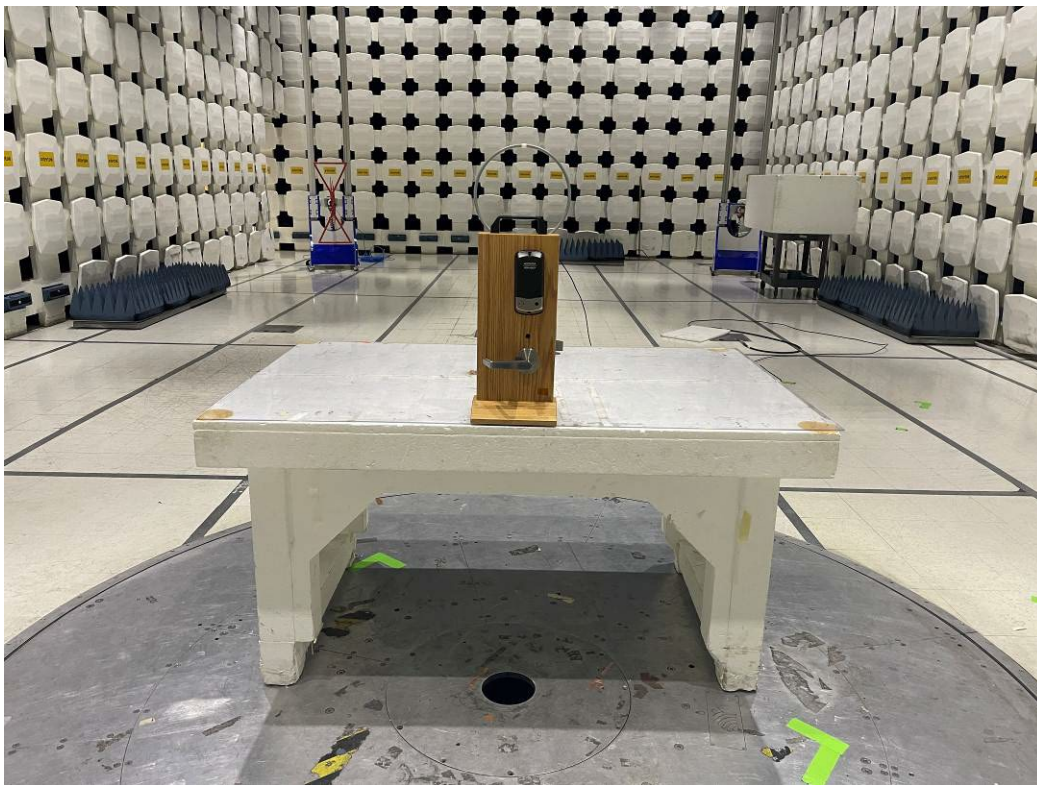
Antenna Port Conducted Power Test Setup – NTM613-ACC Push Button



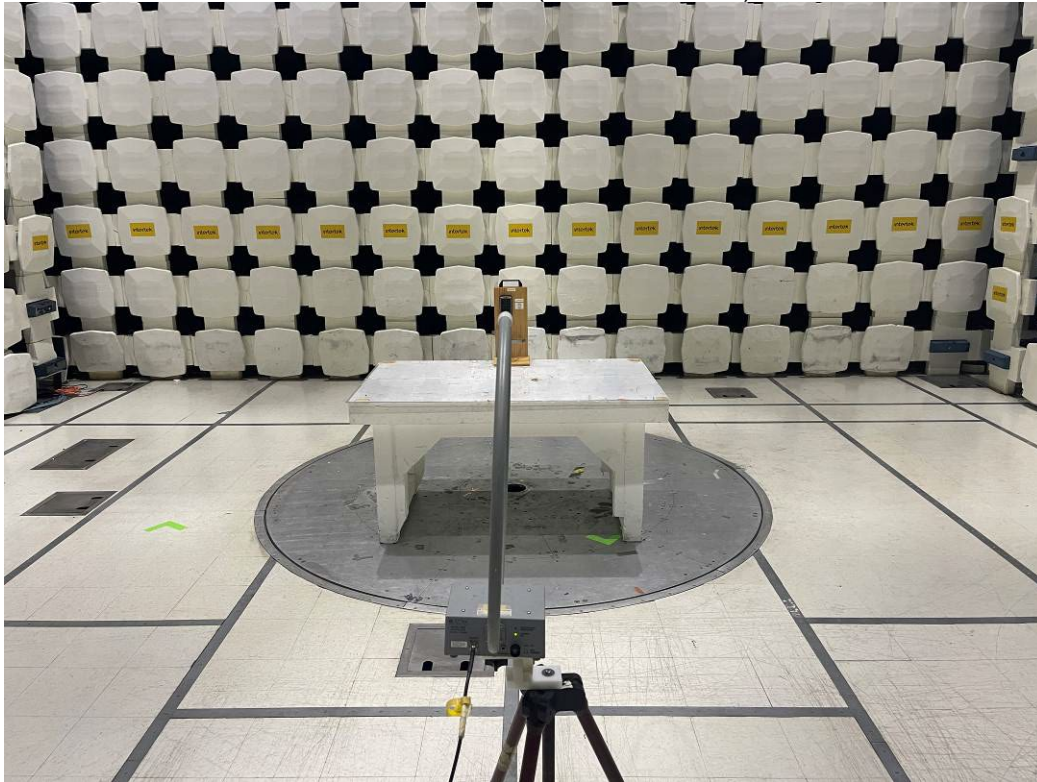
Antenna Port Conducted Power Test Setup – NTM623 Touch Screen



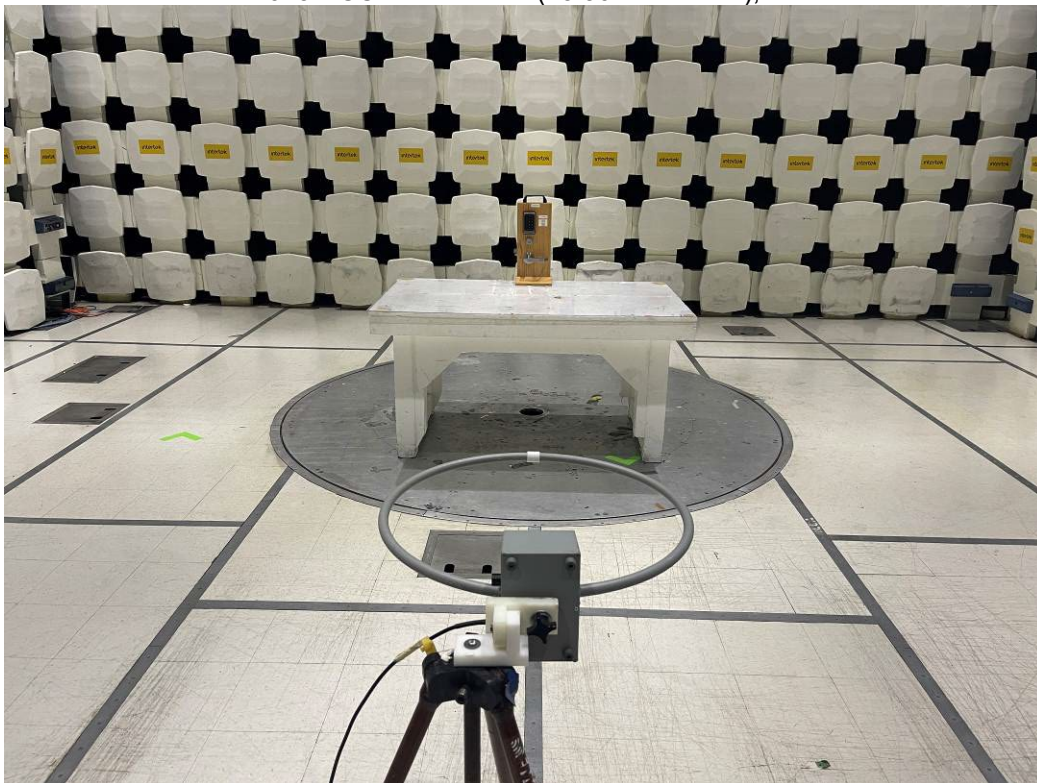
NTM613-ACC Push Button (13.56 MHz RFID), X-axis



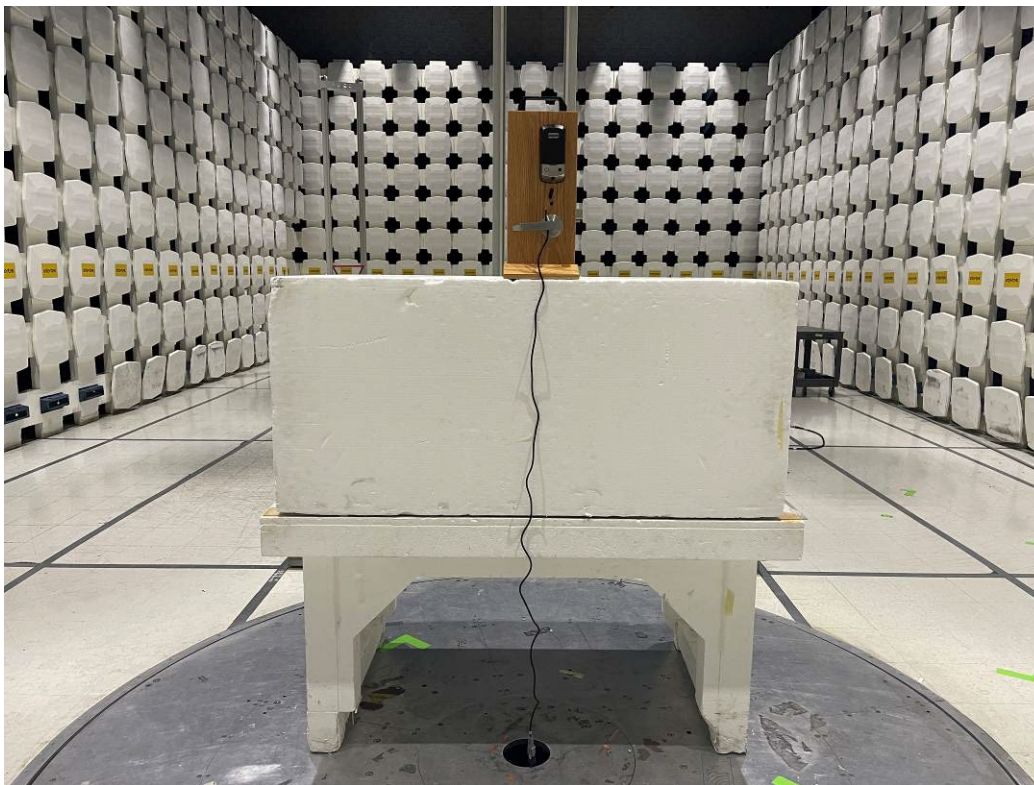
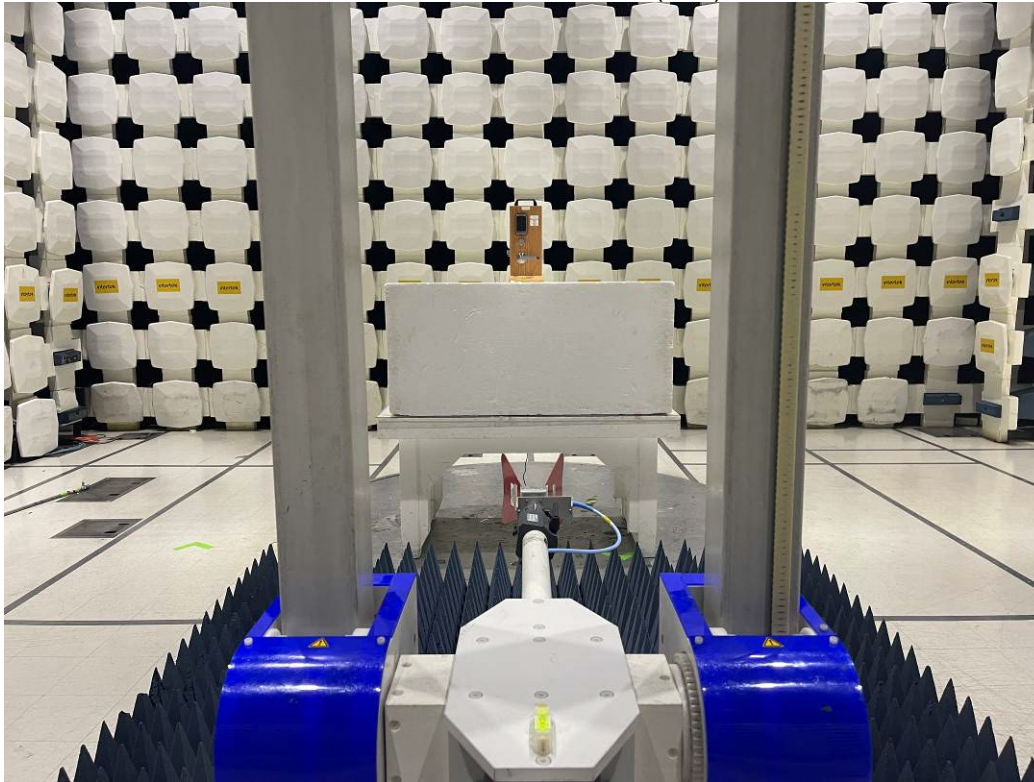
NTM613-ACC Push Button (13.56 MHz RFID), Y-axis



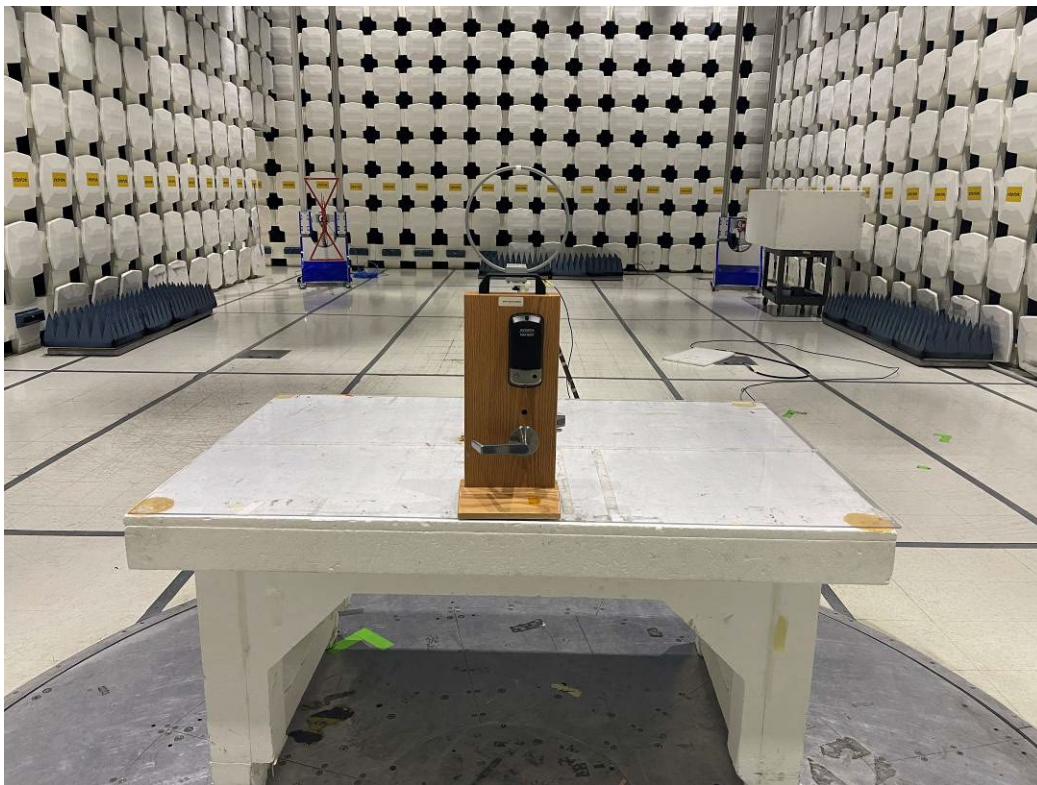
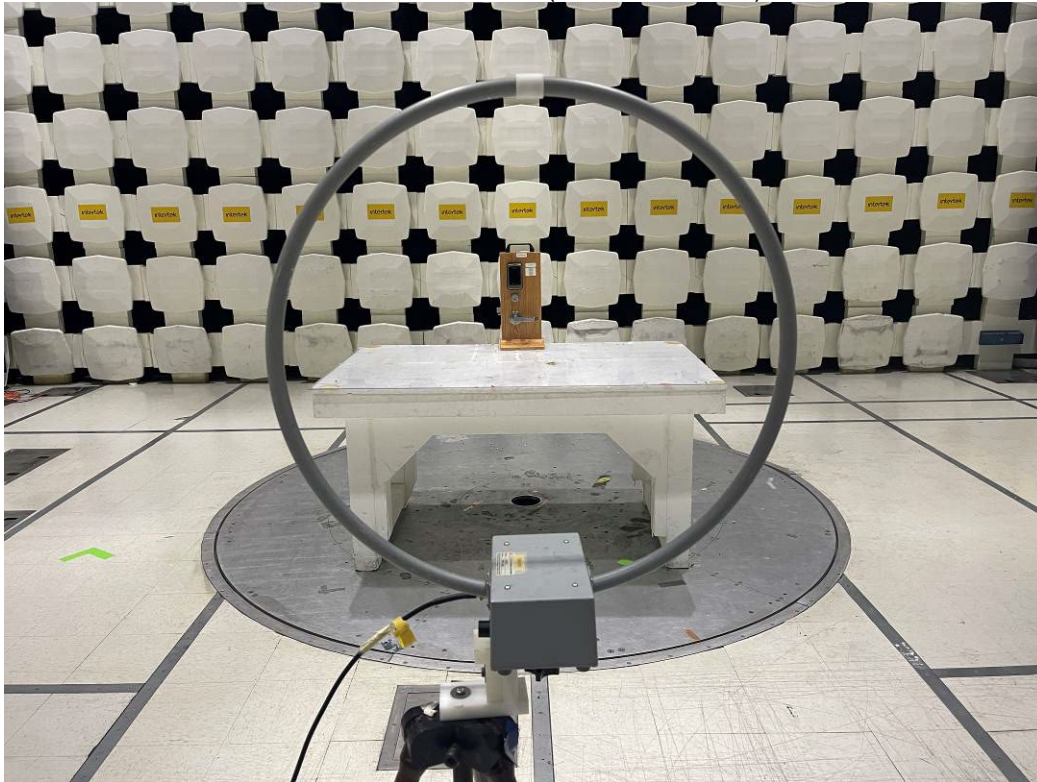
NTM613-ACC Push Button (13.56 MHz RFID), Z-axis



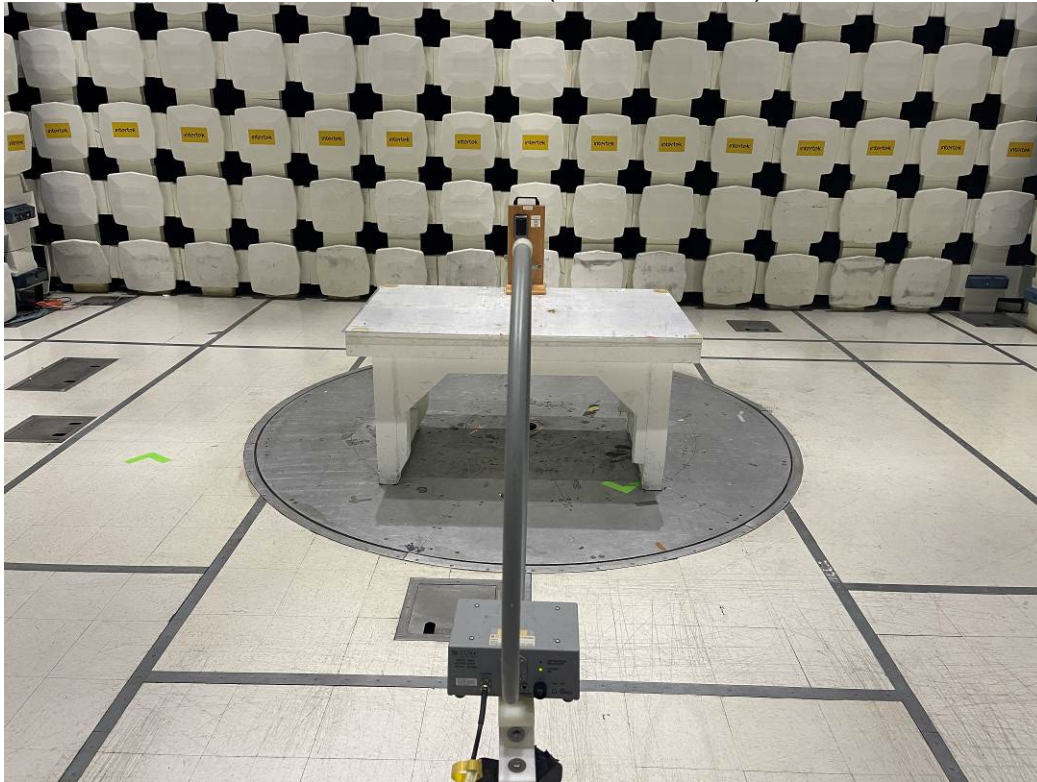
NTM613-ACC Push Button (BLE)



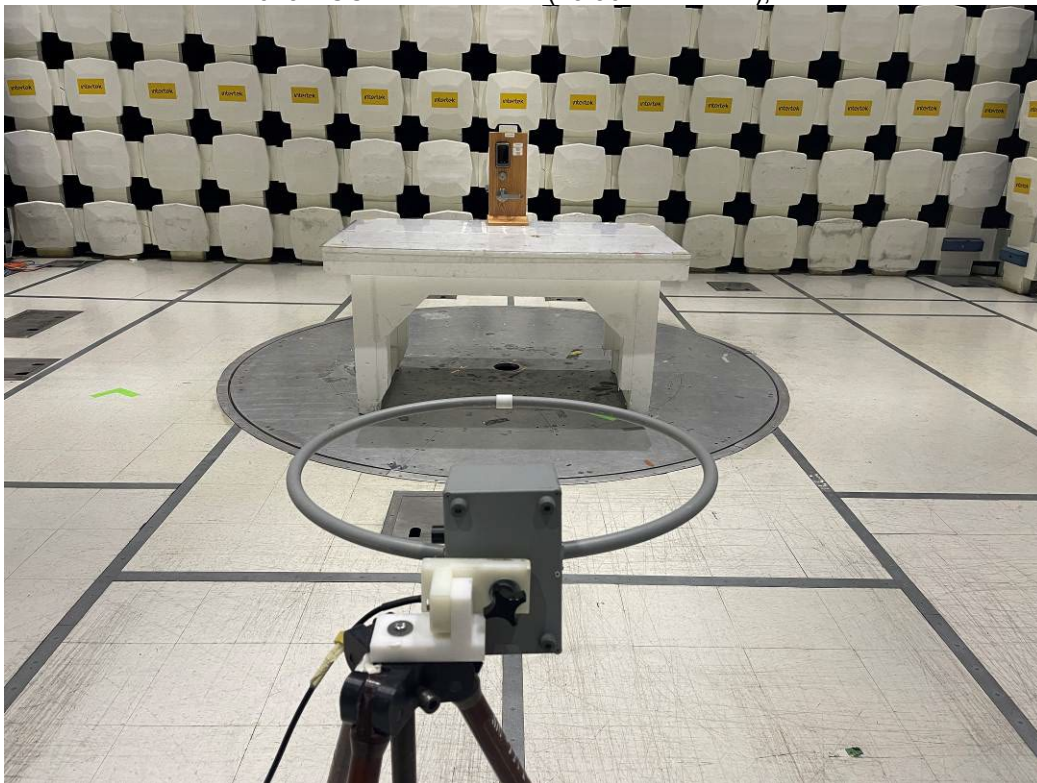
NTM623-ACC Touch Screen (13.56 MHz RFID), X-axis



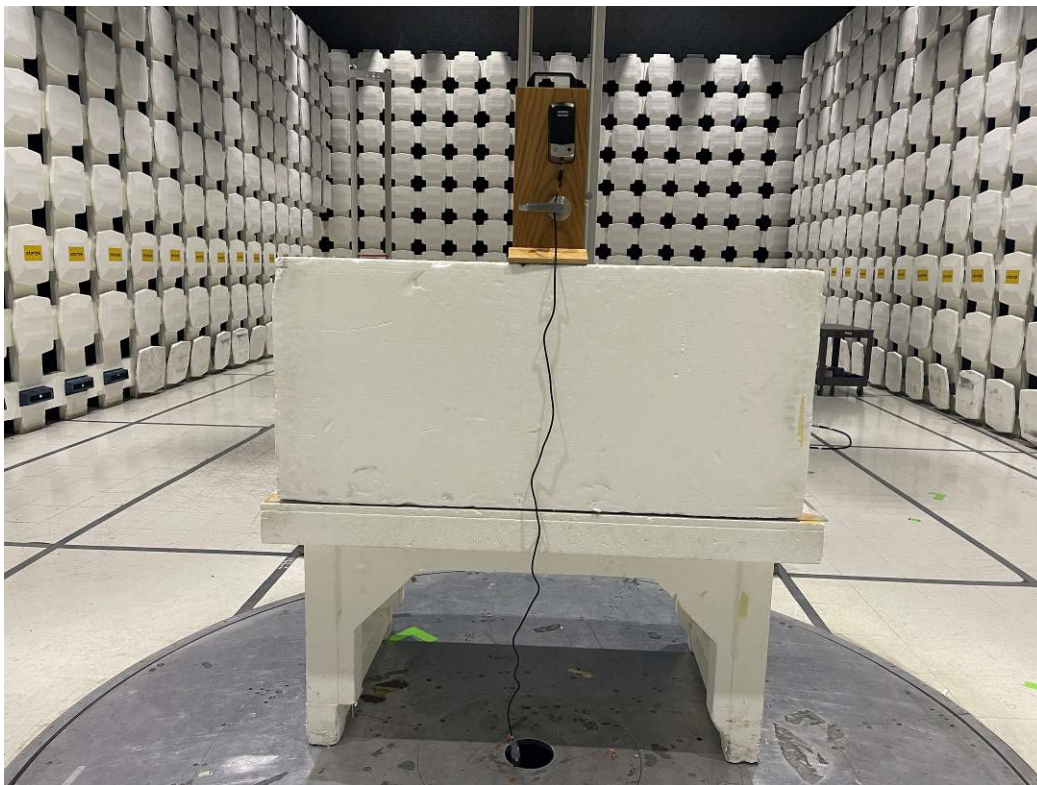
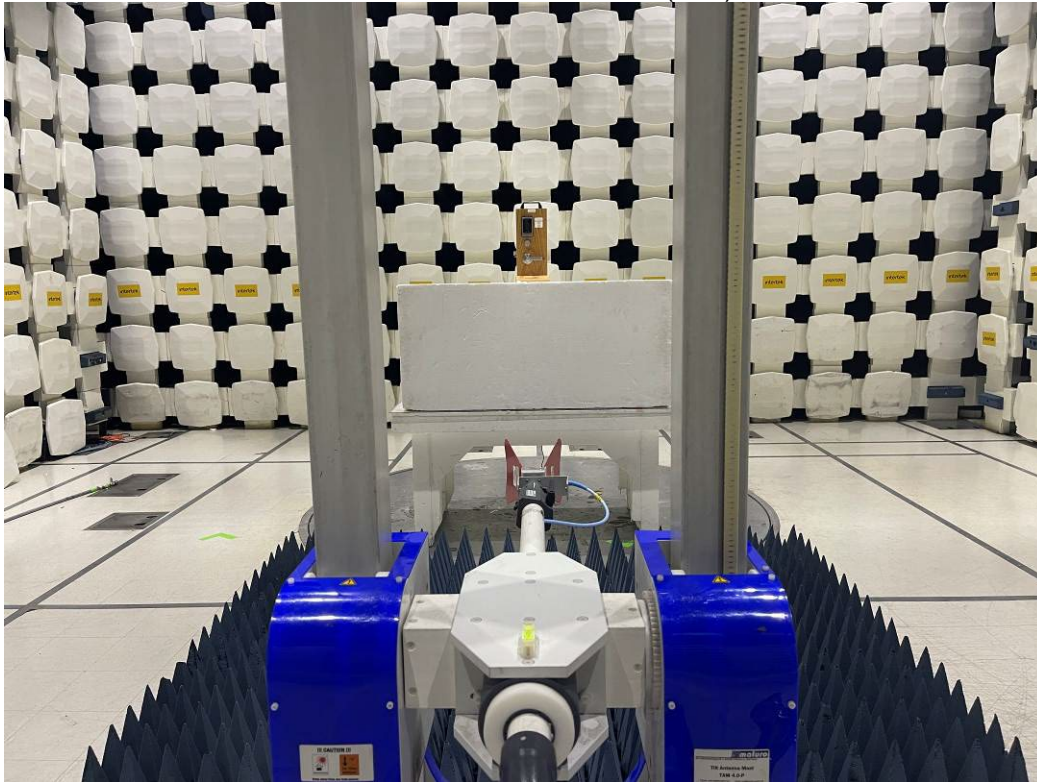
NTM623-ACC Touch Screen (13.56 MHz RFID), Y-axis



NTM623-ACC Touch Screen (13.56 MHz RFID), Z-axis



NTM623-ACC Touch Screen (BLE)



6.5 Plots/Data:

NTM623-ACC Touch Screen

Frequency (MHz)	EIRP (dBm)	Conducted Power (dBm)	Antenna Gain (dBi)
13.56	-44.65	10.20	-54.85
2402	-0.73	4.82*	-4.09
2440	1.56	4.97*	-3.41
2480	2.18	4.60*	-2.42

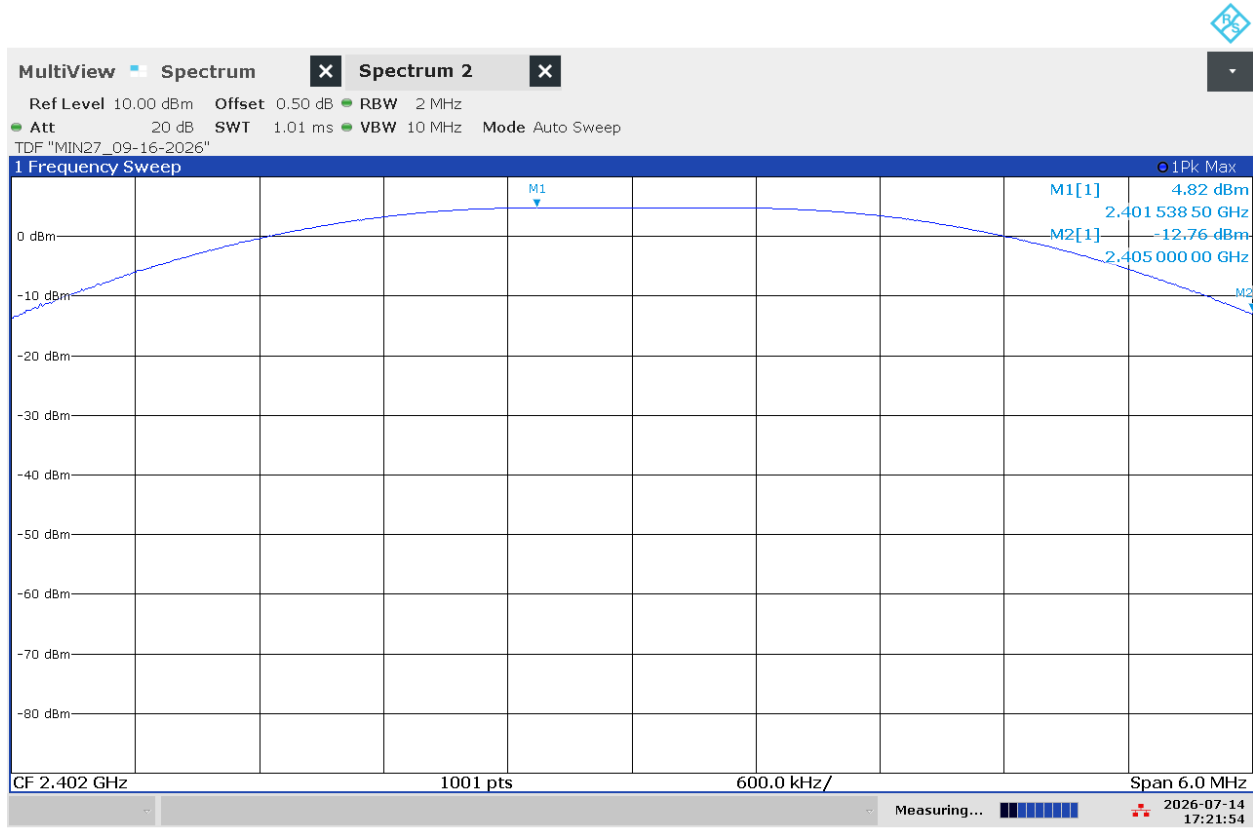
NTM613-ACC Push Button

Frequency (MHz)	EIRP (dBm)	Conducted Power (dBm)	Antenna Gain (dBi)
13.56 MHz	-45.81	9.77	-55.58
2402	-2.37	4.82*	-7.19
2440	-1.57	4.97*	-6.54
2480	-0.19	4.60*	-4.79

Notes: Antenna Gain (dBi) = EIRP - Conducted Power.

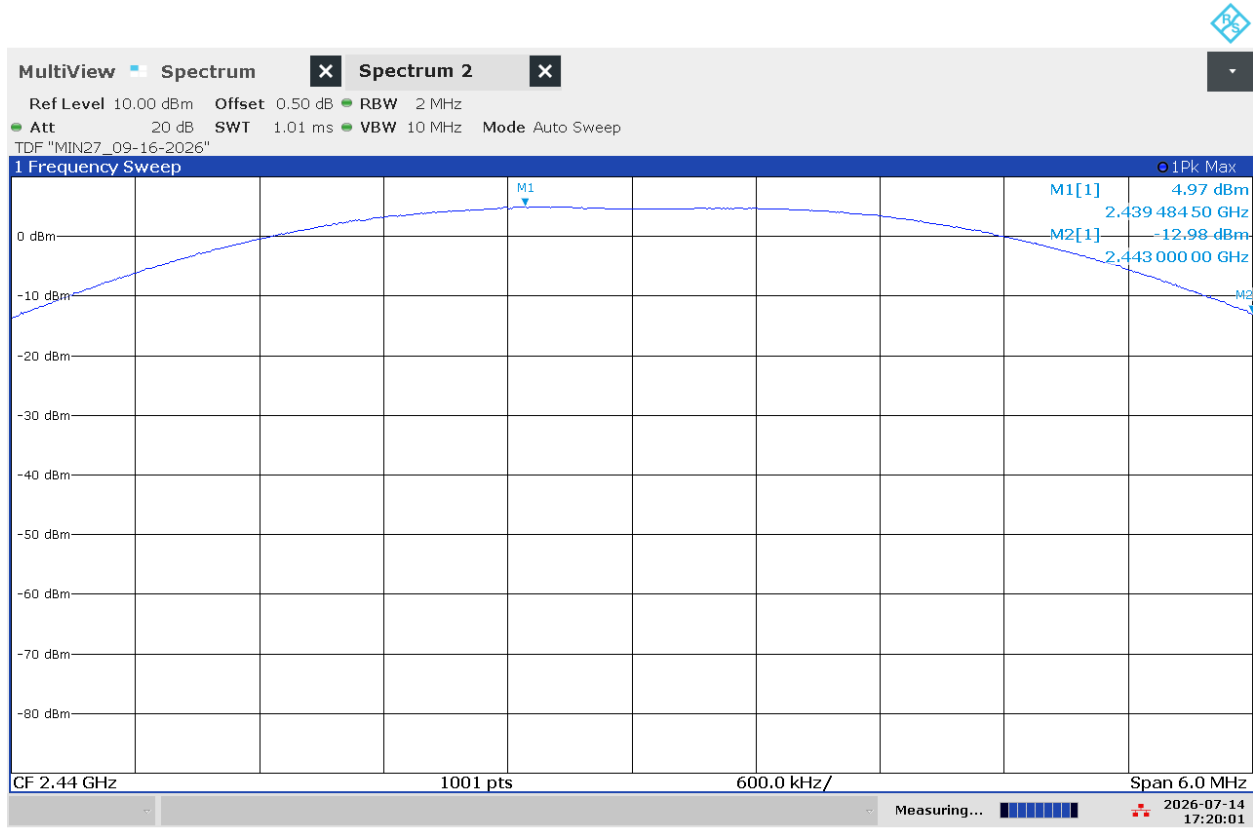
*Conducted power was measured only one NTM Series sample as the controller with BLE is the same for both NTM623-ACC Touch Screen and NTM613-ACC Push Button.

Conducted Power – NTM Series, BLE Tx Low



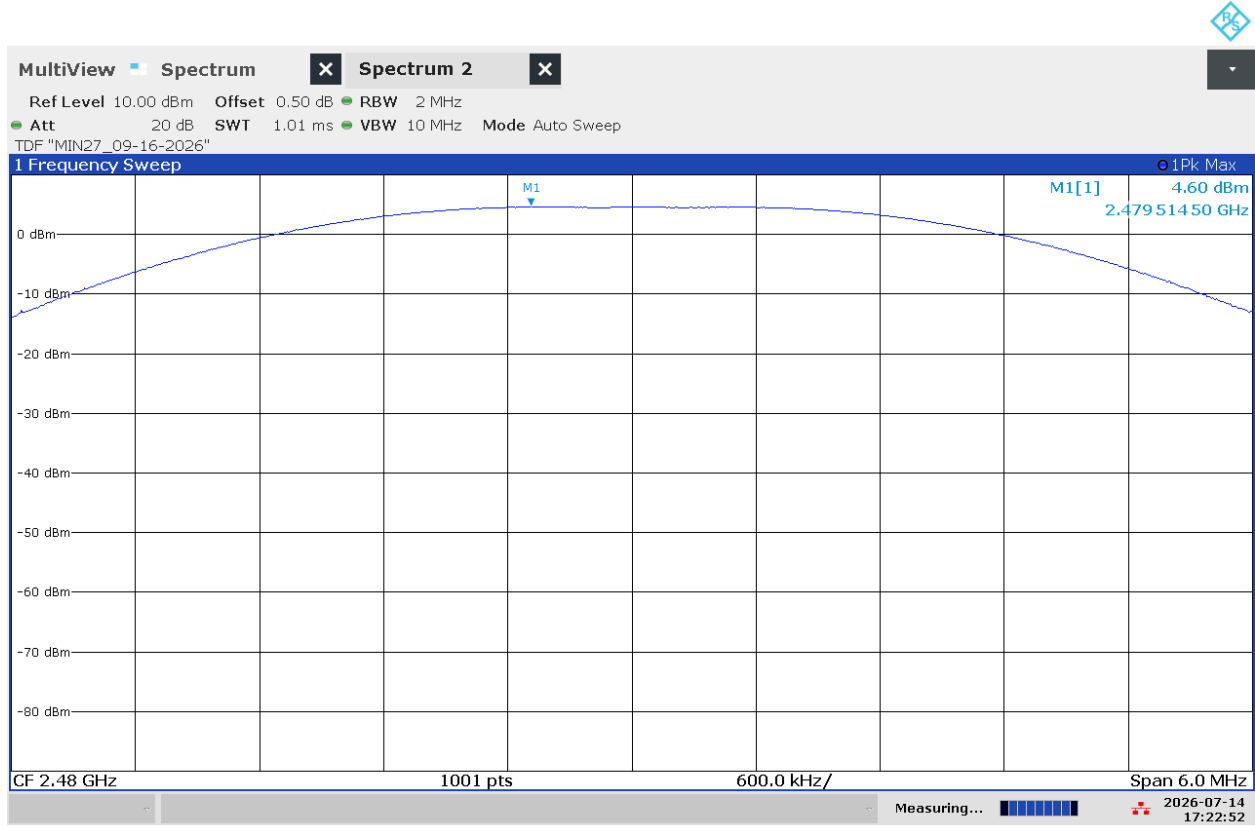
05:21:54 PM 07/14/2026

Conducted Power – NTM Series, BLE Tx Mid



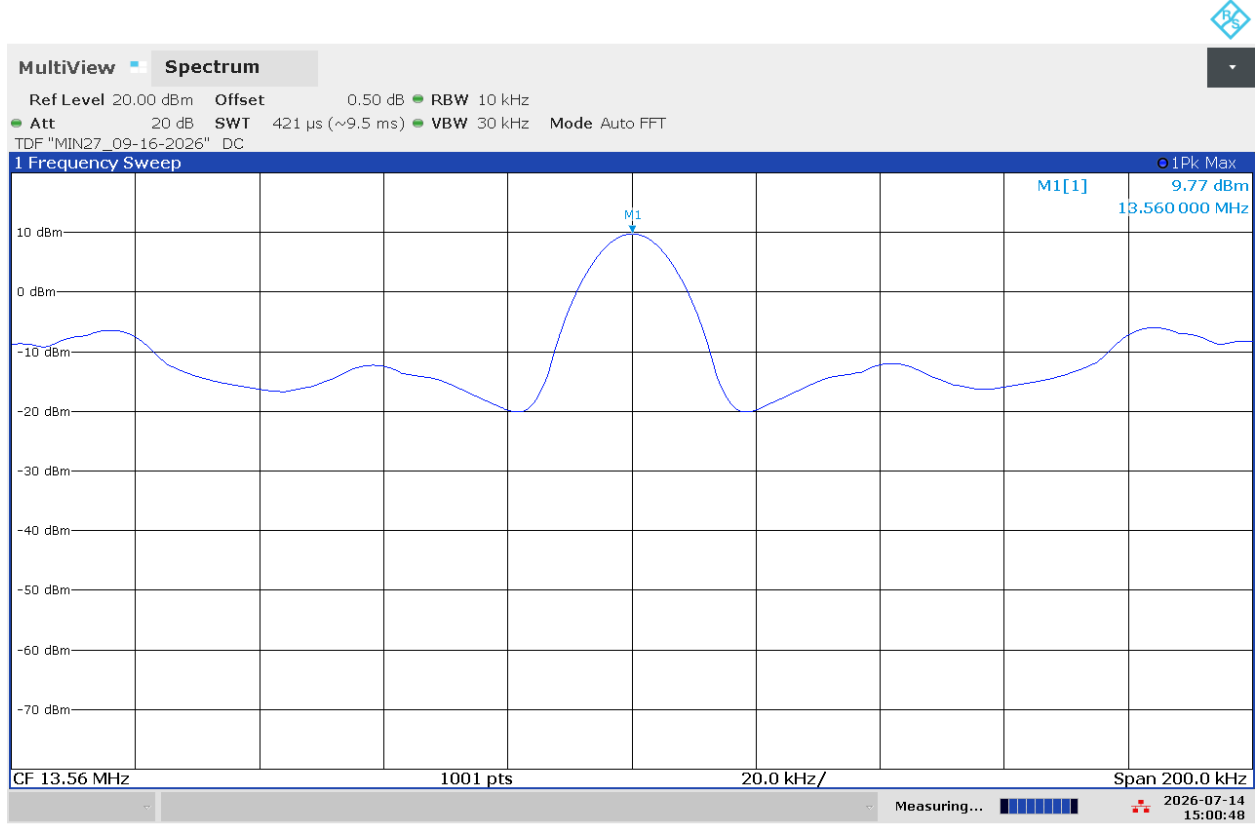
05:20:02 PM 07/14/2026

Conducted Power – NTM Series, BLE Tx High



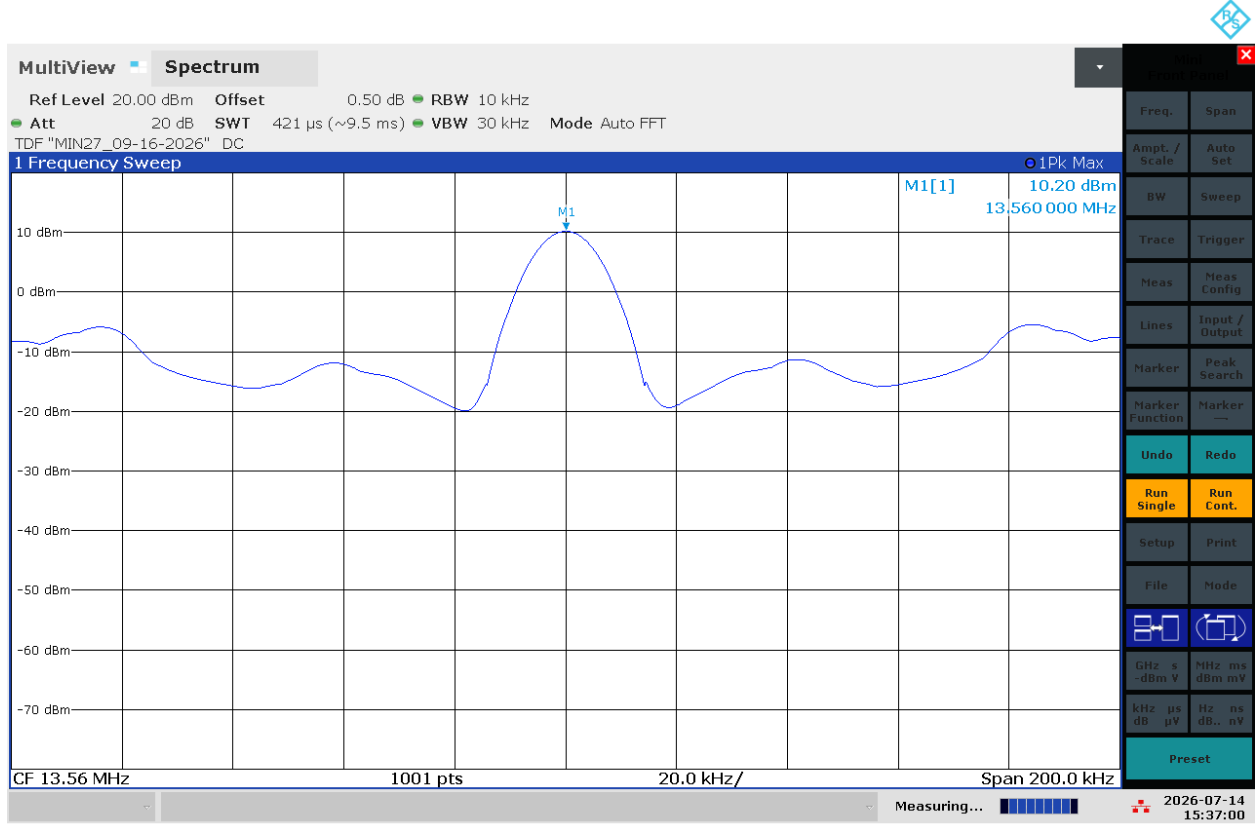
05:22:52 PM 07/14/2026

Conducted Power – NTM613-ACC Push Button (13.56 MHz RFID)



03:00:49 PM 07/14/2026

Conducted Power – NTM623-ACC Touch Screen (13.56 MHz RFID)



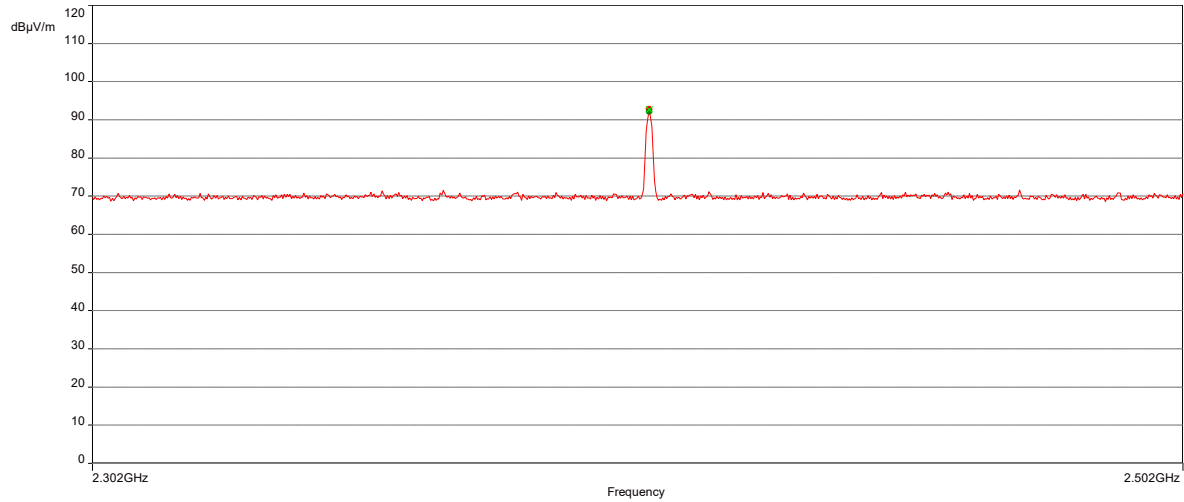
03:37:00 PM 07/14/2026

Scan 1: NTM613-ACC Push Button, BLE Tx Low, Fundamental

Test Information:

Date and Time	9/19/2026 8:39:03 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	47 %
Atmospheric Pressure	1015 mbars
Comments	Scan 1: NTM613-ACC Push Button, BLE Tx Low, Fundamental

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	EIRP (dBm/m)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2402.025	92.83	-2.37	216.50	1.77	Vertical	1M	5.00	38.33

AVG (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2402.025	92.14		216.50	1.77	Vertical	1M	5.00	38.33

EIRP (dBm) = Level (dBuV/m) + 20*log(distance) - 104.7

EIRP (dBm) = Level (dBuV/m) + 20*log(3) - 104.7

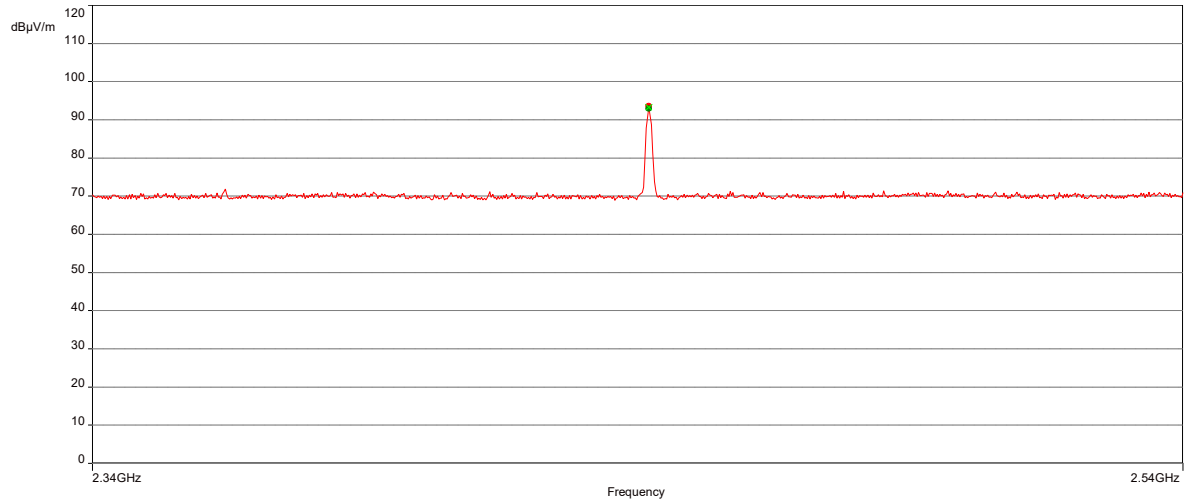
EIRP (dBm) = Level (dBuV/m) – 95.20 dB

Scan 2: NTM613-ACC Push Button, BLE Tx Mid, Fundamental

Test Information:

Date and Time	9/19/2026 8:55:28 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	47 %
Atmospheric Pressure	1015 mbars
Comments	Scan 2: NTM613-ACC Push Button, BLE Tx Mid, Fundamental

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	EIRP (dBm)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2440	93.63	-1.57	223.30	1.00	Horizontal	1M	5.00	38.51

AVG (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2440	92.94	--	223.30	1.00	Horizontal	1M	5.00	38.51

$EIRP\ (dBm) = Level\ (dB\mu V/m) + 20 \cdot \log(distance) - 104.7$

$EIRP\ (dBm) = Level\ (dB\mu V/m) + 20 \cdot \log(3) - 104.7$

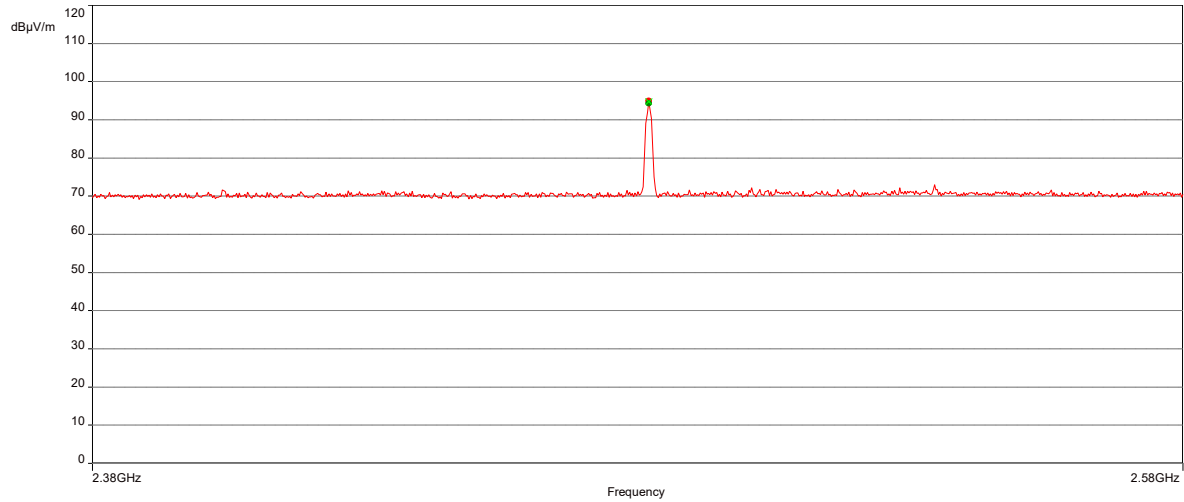
$EIRP\ (dBm) = Level\ (dB\mu V/m) - 95.20\ dB$

Scan 3: NTM613-ACC Push Button, BLE Tx High, Fundamental

Test Information:

Date and Time	9/19/2026 9:05:42 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	47 %
Atmospheric Pressure	1015 mbars
Comments	Scan 3: NTM613-ACC Push Button, BLE Tx High, Fundamental

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	EIRP (dBm)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2480.049	95.01	-0.19	223.30	1.00	Horizontal	1M	5.00	38.69

AVG (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2480.049	94.38	--	223.30	1.00	Horizontal	1M	5.00	38.69

$$\text{EIRP (dBm)} = \text{Level (dBuV/m)} + 20 \cdot \log(\text{distance}) - 104.7$$

$$\text{EIRP (dBm)} = \text{Level (dBuV/m)} + 20 \cdot \log(3) - 104.7$$

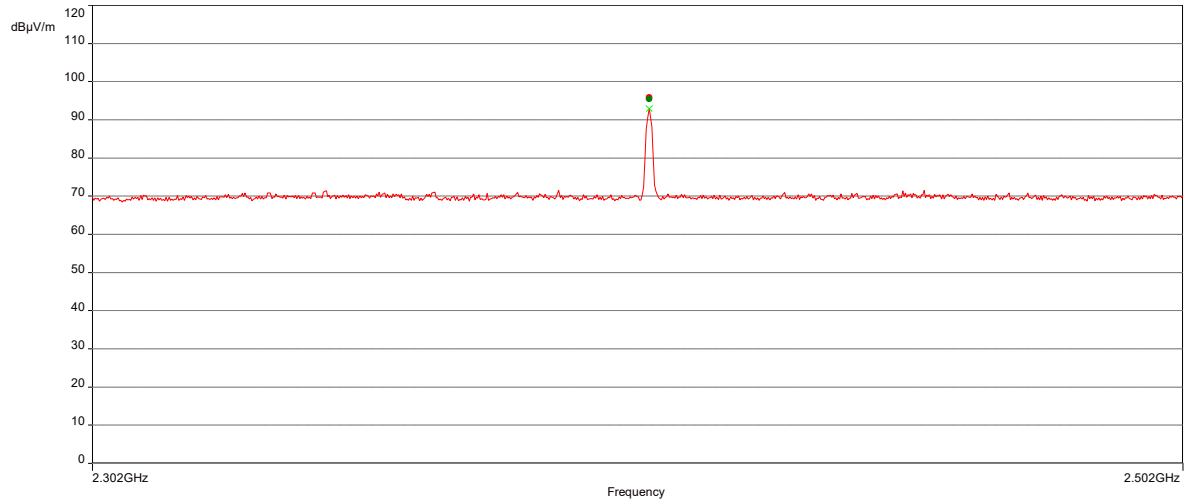
$$\text{EIRP (dBm)} = \text{Level (dBuV/m)} - 95.20 \text{ dB}$$

Scan 4: NTM623-ACC Touch Screen, BLE Tx Low, Fundamental

Test Information:

Date and Time	9/19/2026 9:21:47 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	47 %
Atmospheric Pressure	1015 mbars
Comments	Scan 4: NTM623-ACC Touch Screen, BLE Tx Low, Fundamental

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	EIRP (dBm)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2401.975	95.93	-0.73	180.90	3.84	Vertical	1M	5.00	38.33

AVG (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2401.975	95.47	--	180.90	3.84	Vertical	1M	5.00	38.33

$EIRP\ (dBm) = Level\ (dB\mu V/m) + 20 \cdot \log(distance) - 104.7$

$EIRP\ (dBm) = Level\ (dB\mu V/m) + 20 \cdot \log(3) - 104.7$

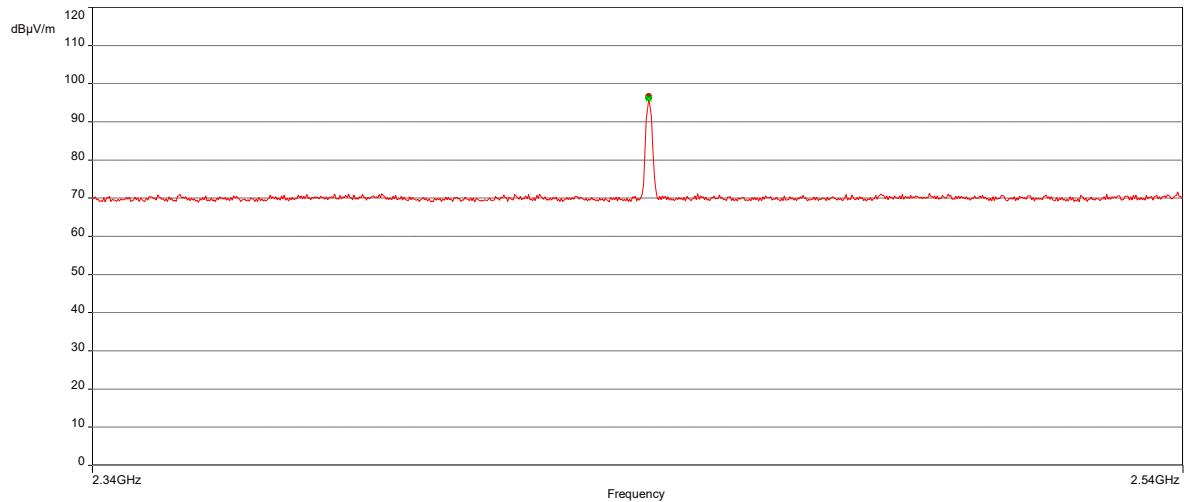
$EIRP\ (dBm) = Level\ (dB\mu V/m) - 95.20\ dB$

Scan 5: NTM623-ACC Touch Screen, BLE Tx Mid, Fundamental

Test Information:

Date and Time	9/19/2026 9:33:17 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	47 %
Atmospheric Pressure	1015 mbars
Comments	Scan 5: NTM623-ACC Touch Screen, BLE Tx Mid, Fundamental

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	EIRP (dBm)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2440.013	96.76	+1.56	201.90	1.07	Vertical	1M	5.00	38.51

AVG (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2440.013	96.24	--	201.90	1.07	Vertical	1M	5.00	38.51

$$\text{EIRP (dBm)} = \text{Level (dBuV/m)} + 20 \cdot \log(\text{distance}) - 104.7$$

$$\text{EIRP (dBm)} = \text{Level (dBuV/m)} + 20 \cdot \log(3) - 104.7$$

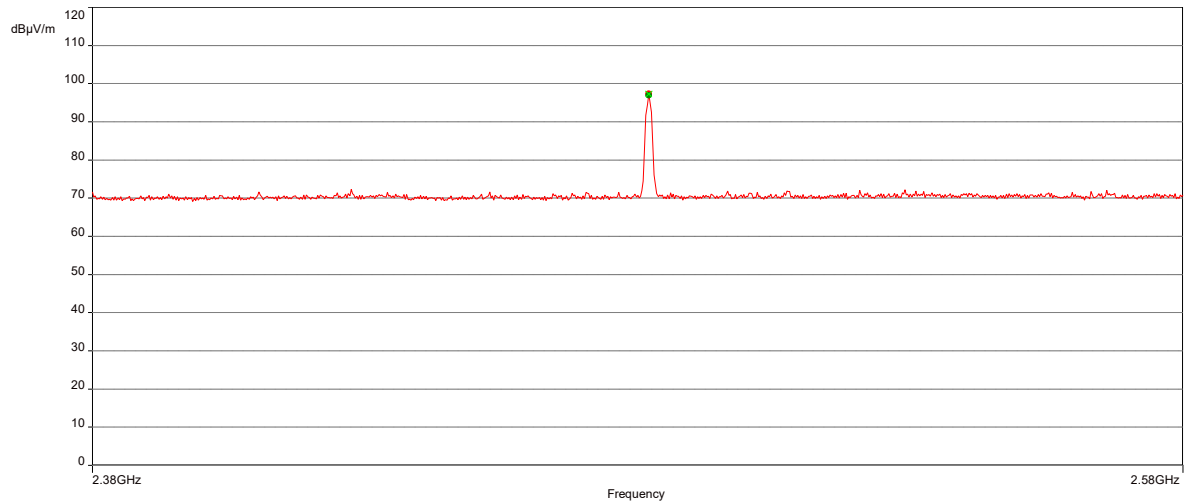
$$\text{EIRP (dBm)} = \text{Level (dBuV/m)} - 95.20 \text{ dB}$$

Scan 6: NTM623-ACC Touch Screen, BLE Tx High, Fundamental

Test Information:

Date and Time	9/19/2026 9:44:29 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	47 %
Atmospheric Pressure	1015 mbars
Comments	Scan 6: NTM623-ACC Touch Screen, BLE Tx High, Fundamental

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	EIRP (dBm)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2480.025	97.38	+2.18	195.60	1.00	Vertical	1M	5.00	38.69

AVG (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Azimuth (°)	Height (m)	Pol.	RBW	Meas.Time (s)	Correction (dB)
2480.025	96.93	--	195.60	1.00	Vertical	1M	5.00	38.69

$EIRP\ (dBm) = Level\ (dBuV/m) + 20 \cdot \log(distance) - 104.7$

$EIRP\ (dBm) = Level\ (dBuV/m) + 20 \cdot \log(3) - 104.7$

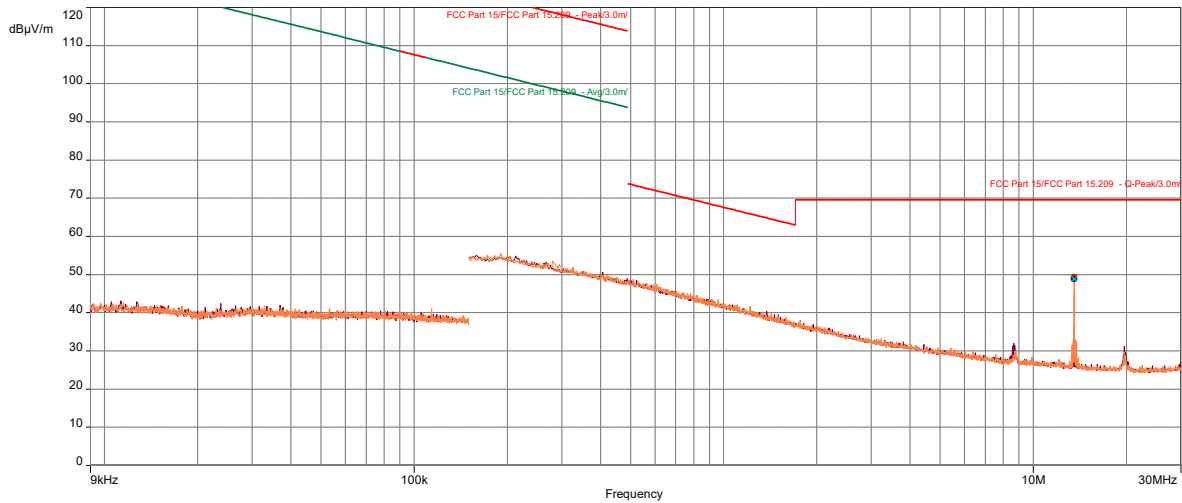
$EIRP\ (dBm) = Level\ (dBuV/m) - 95.20\ dB$

Scan 7: NTM613-ACC Push Button, Tx at 13.56 MHz, RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location

Test Information:

Date and Time	9/19/2026 10:38:56 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	47 %
Atmospheric Pressure	1015 mbars
Comments	Scan 7: NTM613-ACC Push Button, Tx at 13.56 MHz, RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	EIRP (dBm)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time (s)	Correction (dB)
13.55989	49.39	-45.81	-20.15	1.40	Vertical	9k	5.00	11.68

QuasiPeak (PASS) (1)

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time (s)	Correction (dB)
13.55989	48.84	--	-20.70	1.40	Vertical	9k	5.00	11.68

$$\text{EIRP (dBm)} = \text{Level (dBμV/m)} + 20 \cdot \log(\text{distance}) - 104.7$$

$$\text{EIRP (dBm)} = \text{Level (dBμV/m)} + 20 \cdot \log(3) - 104.7$$

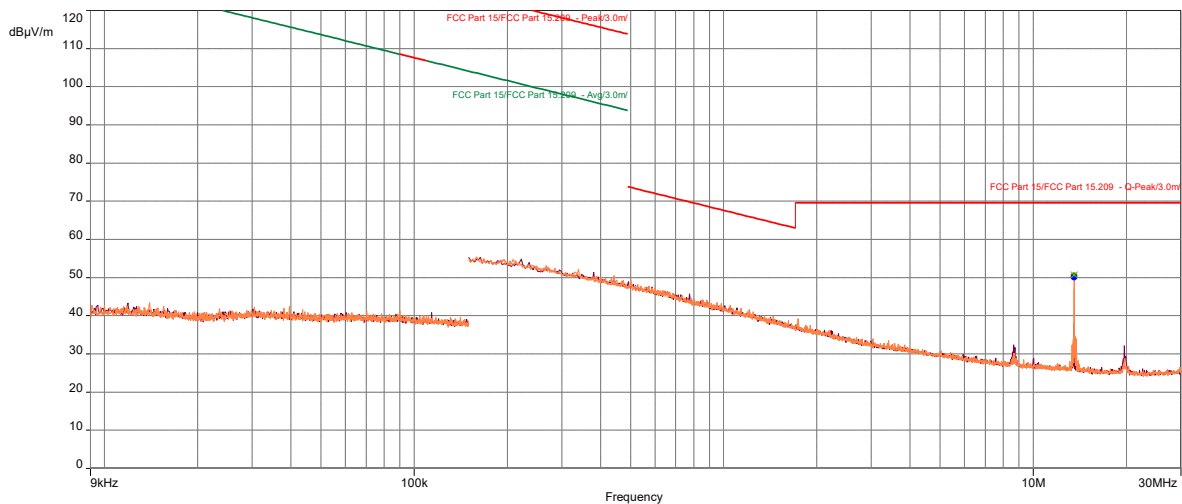
$$\text{EIRP (dBm)} = \text{Level (dBμV/m)} - 95.20 \text{ dB}$$

Scan 8: NTM623-ACC Touch Screen, Tx at 13.56 MHz, RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location

Test Information:

Date and Time	9/19/2026 11:07:21 AM
Client and Project Number	Assa Abloy
Engineer	Kouma Sinn
Temperature	22 deg C
Humidity	47 %
Atmospheric Pressure	1015 mbars
Comments	Scan 8: NTM623-ACC Touch Screen, Tx at 13.56 MHz, RE 9kHz-30MHz Loop antenna, Electric Field, 3M Location

Graph:



Results:

Peak (PASS) (1)

Frequency (MHz)	Level (dBuV/m)	EIRP (dBm)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time	Correction (dB)
13.55978	50.55	-44.65	-18.99	182.50	Vertical	9k	0.10	11.68

QuasiPeak (PASS) (1)

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Azimuth (°)	Pol.	RBW	Meas.Time (s)	Correction (dB)
13.55978	50.07	--	-19.47	182.50	Vertical	9k	5.00	11.68

EIRP (dBm) = Level (dBuV/m) + 20*log(distance) - 104.7

EIRP (dBm) = Level (dBuV/m) + 20*log(3) - 104.7

EIRP (dBm) = Level (dBuV/m) - 95.20 dB

Product Standard: FCC Part 15.225, FCC Part 15.247, RSS-247, RSS-210					Limit applied: N/A Pretest Verification w/BB source: Yes		
Test Date	Test Personnel/ Initials	Supervising Engineer/ Initials	Input Voltage	Mode	Atmospheric Data		
					Temp C°	Relative Humidity %	Atmospheric Pressure mbar
09/19/2026	Kouma Sinn <i>KPS</i>	N/A	Battery Powered	Transmitting	22	47	1015

Deviations, Additions, or Exclusions: None

7 Revision History

Revision Level	Date	Report Number	Prepared By	Reviewed By	Notes
0	09/24/2026	106679509BOX-001	KPS <i>KPS</i>	VFV <i>VFV</i>	Initial Release
1	09/29/2026	106679509BOX-001.1	KPS <i>KPS</i>	VFV <i>VFV</i>	Included variant models Included FCC & IC # on Page 2 and Variant Models on Page 6