



# FCC TEST REPORT

**FCC ID** : HV4DTK168  
**Equipment** : Pen Display  
**Brand Name** : Wacom  
**Model Name** : DTK168, DTK168K0A  
**Applicant** : Wacom Co., Ltd.  
2-510-1 Toyonodai Kazo-shi, Saitama 349-1148 Japan  
**Manufacturer** : Wacom Co., Ltd.  
2-510-1 Toyonodai Kazo-shi, Saitama 349-1148 Japan  
**Standard** : 47 CFR FCC Part 15.209

The product was received on Jan. 24, 2024, and testing was started from Jan. 31, 2024 and completed on Feb. 01, 2024. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.

  
Approved by: Jackson Tsai

***SPORTON INTERNATIONAL INC. Hsinhua Laboratory***

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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## History of this test report



## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.209	Transmitter Radiated Emissions	PASS	-
3.3	15.215(c)	Emission Bandwidth	PASS	-

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

None.

Reviewed by: Barry Hsiao

Report Producer: Amber Chiu



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

RF General Information			
Modulation	Ch. Frequency(kHz)	Channel Number	Field Strength (dBuV)
ASK	667	1	54.36

Note 1: Field strength performed peak level at 3m.

### 1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	-	-	Array Coil Pointing antenna	N/A

Note 1: The EUT has one antenna.

### 1.1.3 Type of EUT

Operational Condition	
EUT Power Type	From AC Adapter
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:

### 1.1.4 Test Signal Duty Cycle

Operated Mode for Worst Duty Cycle	
<input checked="" type="checkbox"/>	Operated normal mode for worst duty cycle
<input type="checkbox"/>	Operated test mode for worst duty cycle
Test Signal Duty Cycle (x)	
<input checked="" type="checkbox"/>	100.00%

### 1.1.5 Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

Brand Name	Model Name	Description
Wacom	DTK168	All the models are identical, the different model served as marketing strategy.
Wacom	DTK168K0A	



### 1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR3D2901AP

Below is the table for the change of the product with respect to the original one.

Sportun Report Number	FR3D2901AP	FR3D2901-02AP
FCC ID	N/A	HV4DTK168
Difference	-	There is some minor change in hardware of main PCBA and SCB PCBA. No modifications were made to existing RF relevant portion.
Performance Checking	-	After evaluation, no RF test validations are required to the hardware changes.



## 1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 414788 D01 v01r01

## 1.3 Testing Location Information

<b>Test Lab. : Sporton International Inc. Hsinhua Laboratory</b>				
<input checked="" type="checkbox"/> Hsinhua (TAF: 3785)	<b>ADD:</b> No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.) <b>TEL:</b> 886-3-327-3456 <b>FAX:</b> 886-3-327-0973			
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Wayne Chiu	22.3~22.7°C / 56~59%	31/Jan/2024
RF Conducted	TH07-HY	Yuna Lin	22.6~23.4°C / 50~53%	01/Feb/2024
Radiated	03CH03-HY	Ivan Chung	22.2~22.6°C / 50~52%	31/Jan/2024
<input type="checkbox"/> Wen 33rd.St. (TAF: 3785)	<b>ADD:</b> No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) <b>TEL:</b> 886-3-318-0787 <b>FAX:</b> 886-3-318-0287			
Test site Designation No. TW0008 with FCC.				

## 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
T <sub>nom</sub> V <sub>nom</sub>	T <sub>nom</sub>	20°C
-	V <sub>nom</sub>	120V

### 2.2 The Worst Case Configuration

Mode	Test Channel Frequencies(kHz)	Field Strength (dBuV/m@3m)
Touch Pen	667	54.36

### 2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	Adapter mode

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emission Bandwidth, Field Strength of Fundamental Emissions Transmitter Radiated Unwanted Emissions		
Test Condition	Radiated measurement		
User Position	<input type="checkbox"/> EUT will be placed in fixed position. <input type="checkbox"/> EUT will be placed in mobile position and operating multiple positions. EUT shall be performed three orthogonal planes. <input checked="" type="checkbox"/> EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions.		
Operating Mode	CTX		
1	Adapter mode		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	



## 2.4 Accessory

Accessories Information					
	<b>Brand Name</b>	LEI	<b>Model Name</b>	IU25-2200125-U	
AC Adapter	<b>Power Rating</b>	I/P: 100 - 240 Vac, 0.7 A, O/P: 5.0 Vdc, 3.0A ,15.0W			
		O/P:9.0 Vdc, 2.77A , 24.93W			
		O/P: 15.0 Vdc, 1.66A , 24.9W			
		O/P:20.0 Vdc, 1.25.0A , 25.0W			
HDMI Cable	<b>Brand Name</b>	Luxshare	<b>Model Name</b>	STJ-A431	
	<b>Signal Line</b>	1.8 meter, shielded cable, w/o ferrite core			
USB Type-C to Type-C	<b>Brand Name</b>	ACON JAPAN Corp.	<b>Model Name</b>	STJ-A419	
	<b>Signal Line</b>	1.8 meter, shielded cable, w/o ferrite core			
USB Type-C to Type-C(Power)	<b>Brand Name</b>	ACON JAPAN Corp.	<b>Model Name</b>	SCD-A194	
	<b>Signal Line</b>	1.8 meter, shielded cable, w/o ferrite core			
USB Type-A to Type-C	<b>Brand Name</b>	ACON JAPAN Corp.	<b>Model Name</b>	STJ-A412	
	<b>Signal Line</b>	1.8 meter, shielded cable, w/o ferrite core			
Pro Pen3	<b>Brand Name</b>	Wacom	<b>Model Name</b>	ACP-500-00	
Enterprise Pen (Black)	<b>Brand Name</b>	Wacom	<b>Model Name</b>	ACP-501E-00	
Pen stand	<b>Brand Name</b>	Wacom	<b>Model Name</b>	PST-A106	
Optional Stand	<b>Brand Name</b>	Wacom	<b>Model Name</b>	MST-A279	

Reminder: Regarding to more detail and other information, please refer to user manual.



## 2.5 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	NB	DELL	Latitude 7290	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	AC Power cable	Power sync	TPCMRN0018	-	-

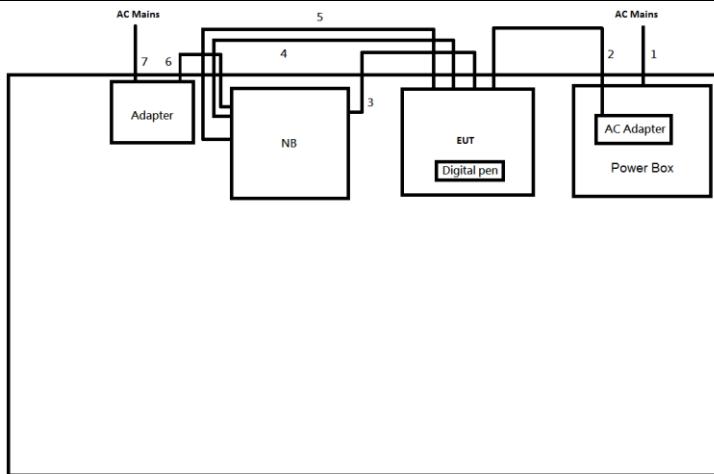
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	Latitude 7290	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	NB	DELL	Latitude 7290	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	AC Power cable	Power sync	TPCMRN0018	-	-



## 2.6 Test Setup Diagram

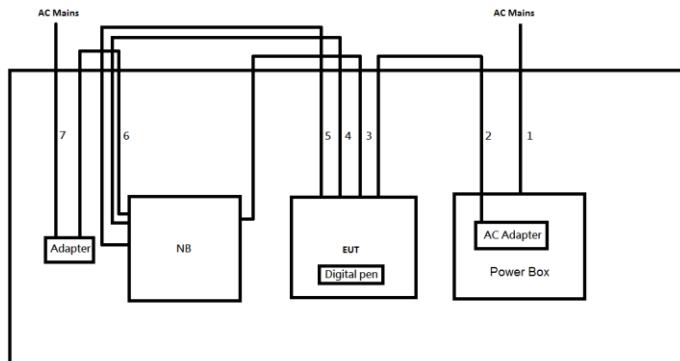
Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.0	-
2	USB Type-C to Type-C(Power)	Yes	1.8	-
3	USB Type-C to Type-C	Yes	1.8	-
4	USB Type-A to Type-C	Yes	1.8	-
5	HDMI cable	Yes	1.8	-
6	DC Power cable	No	1.5	-
7	AC Power cable	No	1.8	-



## Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	USB Type-C to Type-C(Power)	Yes	1.8	-
3	USB Type-C to Type-C	Yes	1.8	-
4	USB Type-A to Type-C	Yes	1.8	-
5	HDMI cable	Yes	1.8	-
6	DC Power cable	No	1.5	-
7	AC Power cable	No	1.8	-



### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

##### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

##### 3.1.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.
<input checked="" type="checkbox"/>	If AC conducted emissions fall in operating band, then following below test method confirm final result.
<input type="checkbox"/>	<p>Accept measurements done with a suitable dummy load replacing the antenna under the following conditions:</p> <p>(1) Perform the AC line conducted tests with the antenna connected to determine compliance with FCC 15.207 limits outside the transmitter's fundamental emission band;</p> <p>(2) Retest with a dummy load to determine compliance with FCC 15.207 limits within the transmitter's fundamental emission band.</p>
<input checked="" type="checkbox"/>	<p>For a device with a permanent antenna operating at or below 30 MHz, accept measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions:</p> <p>(1) Perform the AC line conducted tests with the permanent antenna to determine compliance with the FCC 15.207 limits outside the transmitter's fundamental emission band;</p> <p>(2) Retest with a dummy load in lieu of the permanent antenna to determine compliance with the FCC 15.207 limits within the transmitter's fundamental emission band.</p>

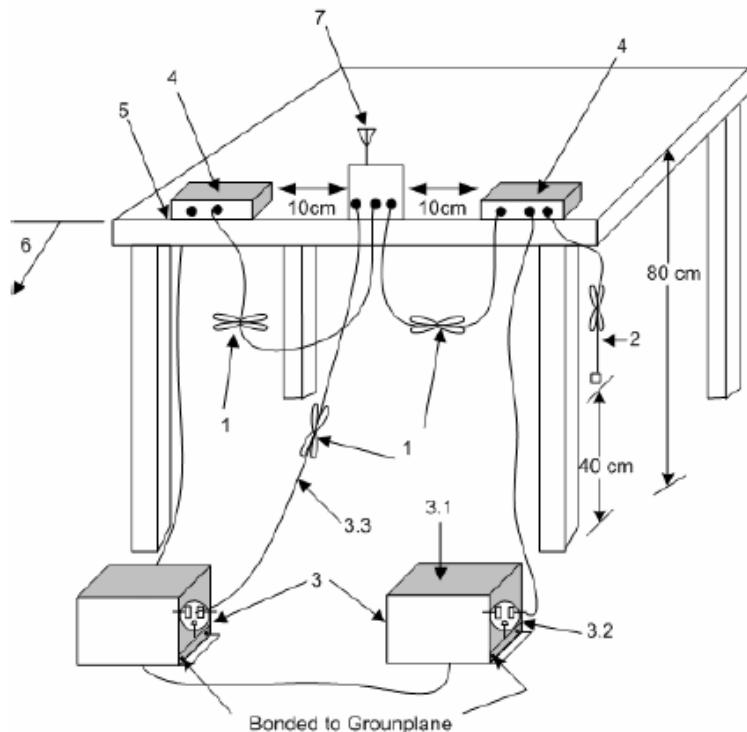
##### 3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) +LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

### 3.1.5 Test Setup

#### AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.

2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in  $50\Omega$  loads. LISN may be placed on top of, or immediately beneath, reference ground plane.

3.1—All other equipment powered from additional LISN(s).

3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.

3.3—LISN at least 80 cm from nearest part of EUT chassis.

4—Non-EUT components of EUT system being tested.

5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.

6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

### 3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A



## 3.2 Transmitter Radiated Emissions

### 3.2.1 Transmitter Radiated Emissions Limit

Transmitter Radiated Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: the frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 1GHz measurements employing a CISPR quasi-peak detector.

### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.



### 3.2.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1 GHz and test distance is 3m.	
<input checked="" type="checkbox"/> Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz. The frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 30MHz measurements employing a CISPR quasi-peak detector. Test distance is 3m.	
<input checked="" type="checkbox"/> At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the requirements; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be following below methods. Note: If fundamental emission level is smaller than noise at 3m , we will change distance to 1m.	
<input type="checkbox"/> The results shall be extrapolated to the specified distance by making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor.	
<input checked="" type="checkbox"/> The results shall be by using the square of an inverse linear distance extrapolation factor (40 dB/decade).	
<input checked="" type="checkbox"/> For radiated measurement. Loop antenna was rotated about the horizontal and vertical axis and the equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted field strength level.	
<input checked="" type="checkbox"/> The any unwanted emissions level shall not exceed the fundamental emission level.	
<input checked="" type="checkbox"/> All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	
<input checked="" type="checkbox"/> KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	<input type="checkbox"/> Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	<input type="checkbox"/> Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

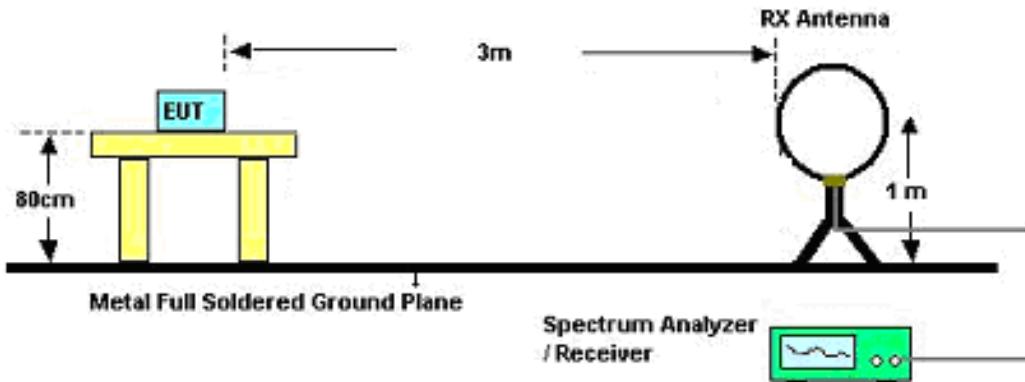
### 3.2.4 Measurement Results Calculation

The measured Level is calculated using:

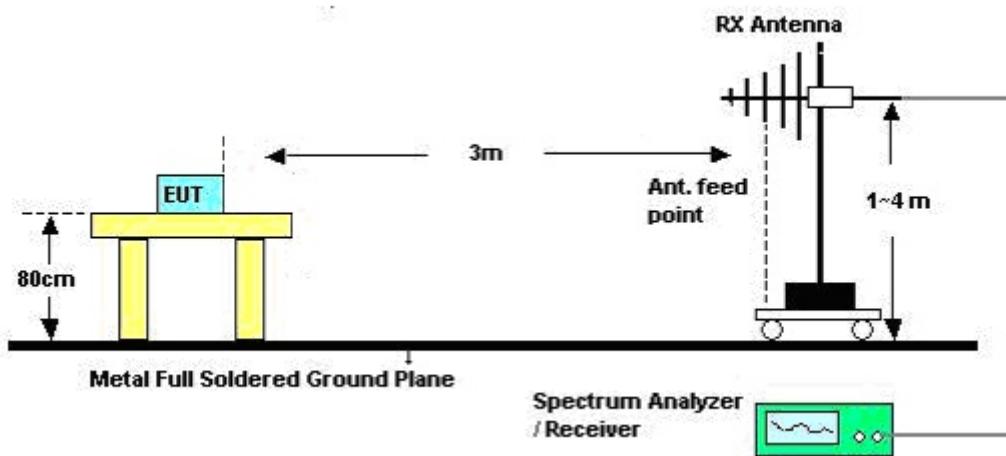
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

### 3.2.5 Test Setup

#### Transmitter Radiated Emissions



Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. The center of the loop shall be 1 m above the ground.



Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna. the antenna height shall be varied from 1 m to 4 m.

### 3.2.6 Test Result of Transmitter Radiated Emissions (Below 30MHz)

Refer as Appendix B

### 3.3 Emission Bandwidth

#### 3.3.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
	N/A

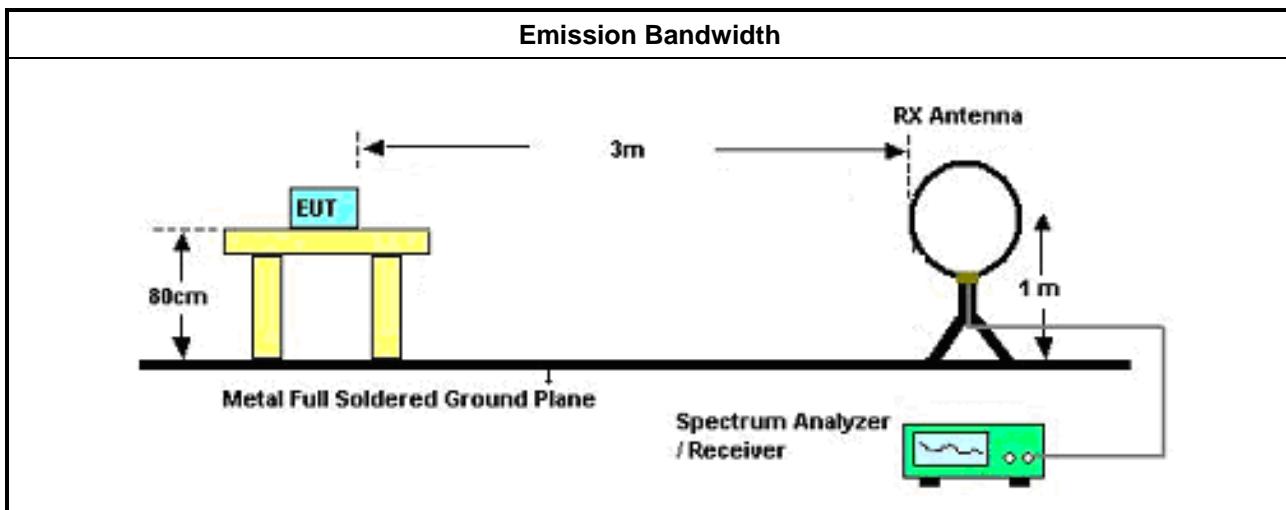
#### 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.3.3 Test Procedures

Test Method	
<input checked="" type="checkbox"/>	Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.
<input checked="" type="checkbox"/>	For radiated measurement. Loop antenna was rotated about the horizontal and vertical axis and the equipment to be measured and the test antenna shall be oriented to obtain the maximum emitted field strength level.

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Emission Bandwidth

Refer as Appendix C



## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

Instrument	Manufacturer / Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	16/May/2023	15/May/2024
LISN(Artificial Mains Network)	SCHWARZBECK	NSLK 8127	8127477	9kHz ~ 30MHz	10/Apr/2023	09/Apr/2024
Two-Line V-Network	SCHWARZBECK	NNB 41	04/10153	9kHz ~ 30MHz	24/Jan/2024	23/Jan/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	28/Feb/2023	27/Feb/2024
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	18/Oct/2023	17/Oct/2024
Software	Sporton	SENSE-EMI	V5.11.3	-	NCR	NCR

NCR: No Calibration Required

### Instrument for Conducted Test

Instrument	Manufacturer / Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	14/Feb/2023	13/Feb/2024
SENSE-NFC	Sporton	V5.11.0	N/A	N/A	N/A	N/A

### Instrument for Radiated Test

Instrument	Manufacturer / Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	30/Jul/2023	29/Jul/2024
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	16/May/2023	15/May/2024
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	26/Oct/2023	25/Oct/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	23/Mar/2023	22/Mar/2024
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	15/Oct/2023	14/Oct/2024
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	13/Jun/2023	12/Jun/2024
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-02	30MHz~1GHz	13/Jun/2023	12/Jun/2024
Amplifier	Agilent	8447D	2944A08033	100kHz~1.3GHz	14/Sep/2023	13/Sep/2024
SENSE-303417	Sporton	V5.10.4	N/A	N/A	N/A	N/A



## Conducted Emissions at Powerline

## Appendix A

### Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.636k	52.78	65.81	-13.03	Line

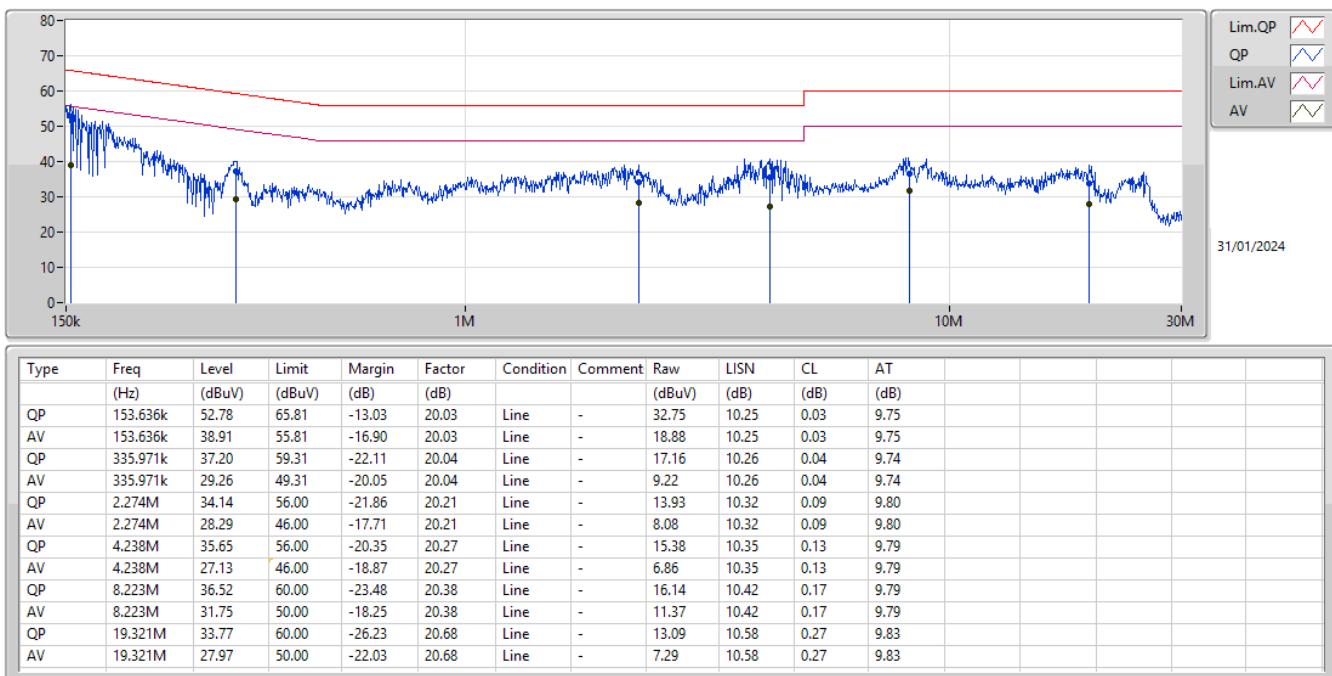
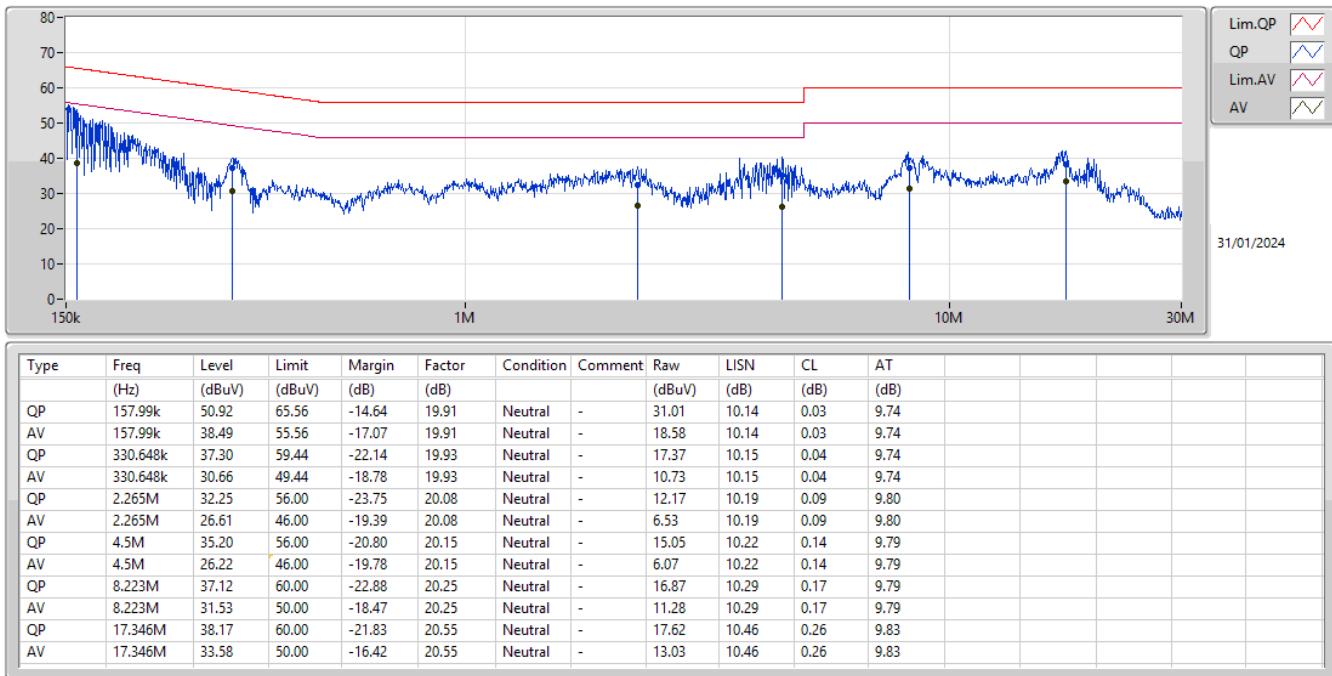


## Conducted Emissions at Powerline

## Appendix A

### Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	153.636k	52.78	65.81	-13.03	Line	-
Mode 1	Pass	AV	153.636k	38.91	55.81	-16.90	Line	-
Mode 1	Pass	QP	335.971k	37.20	59.31	-22.11	Line	-
Mode 1	Pass	AV	335.971k	29.26	49.31	-20.05	Line	-
Mode 1	Pass	QP	2.274M	34.14	56.00	-21.86	Line	-
Mode 1	Pass	AV	2.274M	28.29	46.00	-17.71	Line	-
Mode 1	Pass	QP	4.238M	35.65	56.00	-20.35	Line	-
Mode 1	Pass	AV	4.238M	27.13	46.00	-18.87	Line	-
Mode 1	Pass	QP	8.223M	36.52	60.00	-23.48	Line	-
Mode 1	Pass	AV	8.223M	31.75	50.00	-18.25	Line	-
Mode 1	Pass	QP	19.321M	33.77	60.00	-26.23	Line	-
Mode 1	Pass	AV	19.321M	27.97	50.00	-22.03	Line	-
Mode 1	Pass	QP	157.99k	50.92	65.56	-14.64	Neutral	-
Mode 1	Pass	AV	157.99k	38.49	55.56	-17.07	Neutral	-
Mode 1	Pass	QP	330.648k	37.30	59.44	-22.14	Neutral	-
Mode 1	Pass	AV	330.648k	30.66	49.44	-18.78	Neutral	-
Mode 1	Pass	QP	2.265M	32.25	56.00	-23.75	Neutral	-
Mode 1	Pass	AV	2.265M	26.61	46.00	-19.39	Neutral	-
Mode 1	Pass	QP	4.5M	35.20	56.00	-20.80	Neutral	-
Mode 1	Pass	AV	4.5M	26.22	46.00	-19.78	Neutral	-
Mode 1	Pass	QP	8.223M	37.12	60.00	-22.88	Neutral	-
Mode 1	Pass	AV	8.223M	31.53	50.00	-18.47	Neutral	-
Mode 1	Pass	QP	17.346M	38.17	60.00	-21.83	Neutral	-
Mode 1	Pass	AV	17.346M	33.58	50.00	-16.42	Neutral	-

**Conducted Emissions at Powerline\_Mode 1**

**Conducted Emissions at Powerline\_Mode 1**


**Summary**

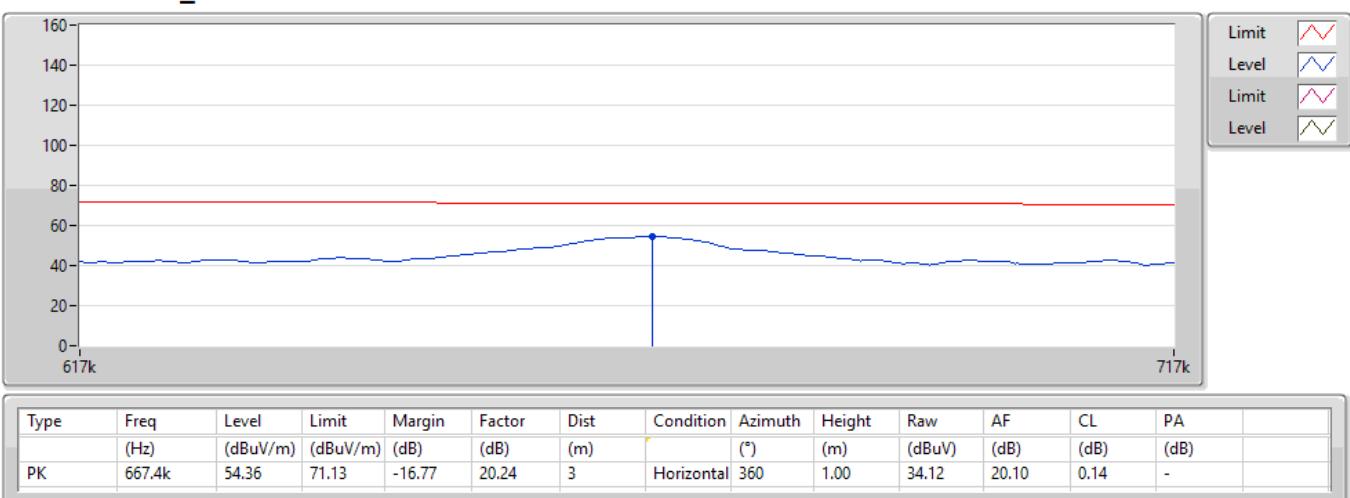
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
SRD	-	-	-	-	-	-	-	-	-	-	-
SRD	Pass	PK	667.4k	54.36	71.13	-16.77	20.24	3	Horizontal	360	1.00

**Result**

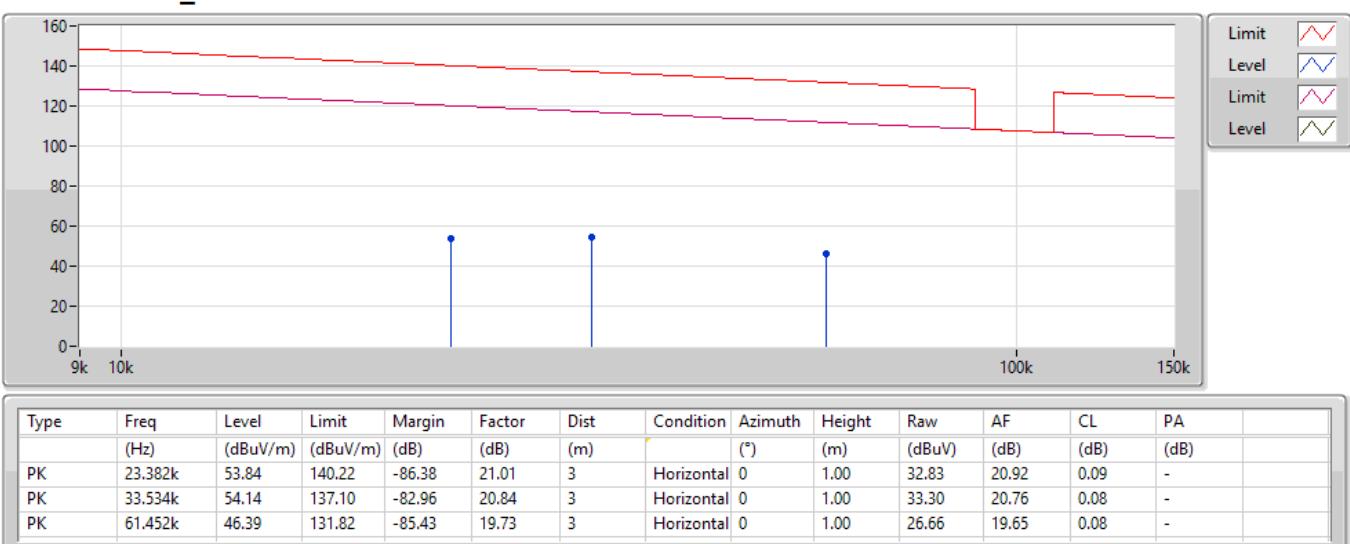
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
SRD	-	-	-	-	-	-	-	-	-	-	-
0.667MHz_TX	Pass	PK	667.4k	54.36	71.13	-16.77	20.24	3	Horizontal	360	1.00
0.667MHz_TX	Pass	PK	23.382k	53.84	140.22	-86.38	21.01	3	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	33.534k	54.14	137.10	-82.96	20.84	3	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	61.452k	46.39	131.82	-85.43	19.73	3	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	150k	53.49	124.08	-70.59	19.92	3	Horizontal	360	1.00
0.667MHz_TX	Pass	PK	627.6k	54.09	71.65	-17.56	20.23	3	Horizontal	360	1.00
0.667MHz_TX	Pass	PK	2.001M	52.50	69.50	-17.00	19.91	3	Horizontal	360	1.00

**SRD**
**0.667MHz\_TX**

31/01/2024

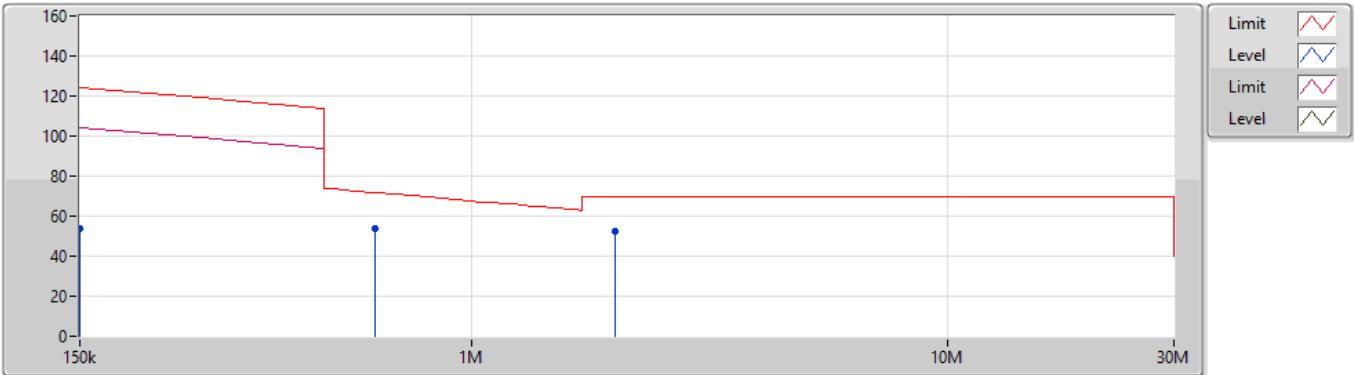

**SRD**
**0.667MHz\_TX**

31/01/2024



**SRD**

31/01/2024

**0.667MHz\_TX**


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)	
PK	150k	53.49	124.08	-70.59	19.92	3	Horizontal	360	1.00	33.57	19.83	0.09	-	
PK	627.6k	54.09	71.65	-17.56	20.23	3	Horizontal	360	1.00	33.86	20.10	0.13	-	
PK	2.001M	52.50	69.50	-17.00	19.91	3	Horizontal	360	1.00	32.59	19.70	0.21	-	

**Summary**

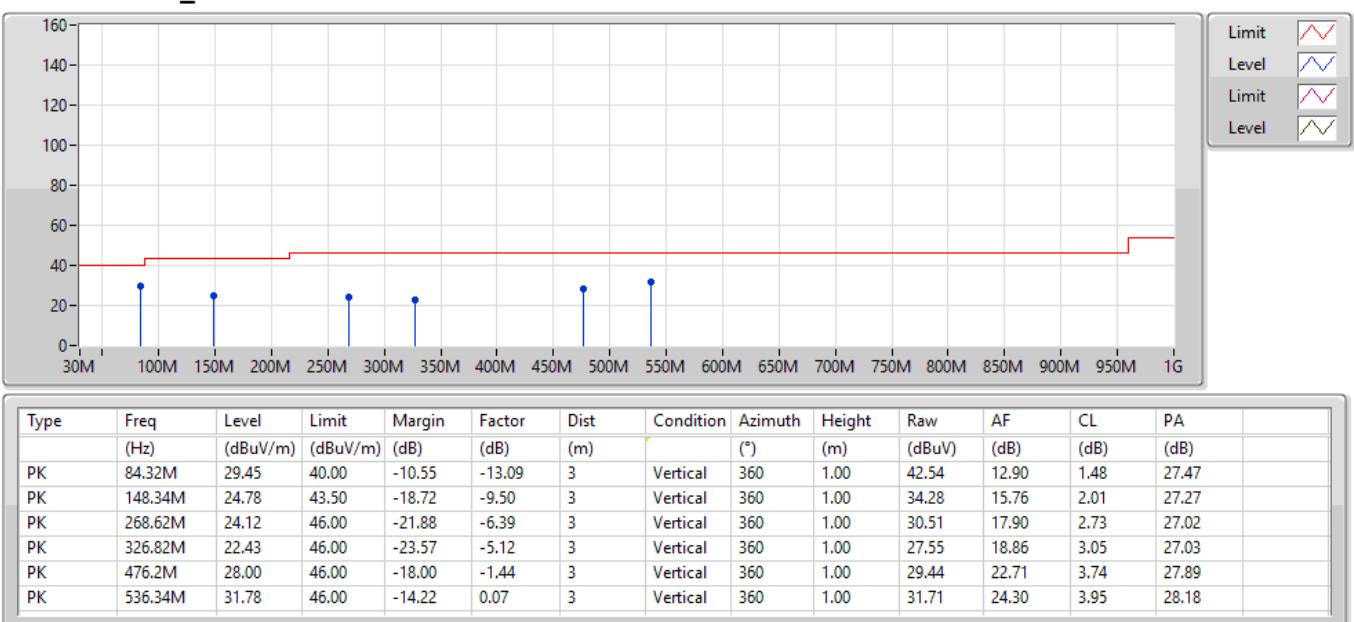
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
SRD	-	-	-	-	-	-	-	-	-	-	-
SRD	Pass	PK	806M	42.91	46.00	-3.09	2.30	3	Horizontal	0	1.00

**Result**

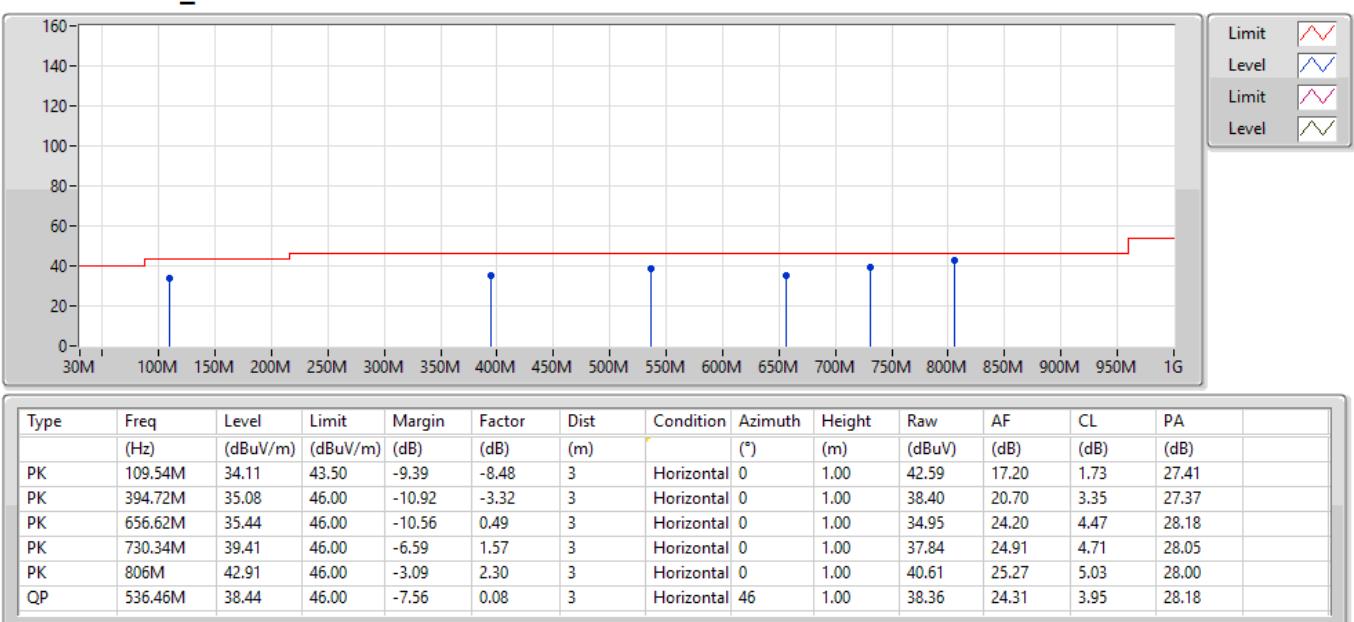
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
SRD	-	-	-	-	-	-	-	-	-	-	-
0.667MHz_TX	Pass	PK	84.32M	29.45	40.00	-10.55	-13.09	3	Vertical	360	1.00
0.667MHz_TX	Pass	PK	148.34M	24.78	43.50	-18.72	-9.50	3	Vertical	360	1.00
0.667MHz_TX	Pass	PK	268.62M	24.12	46.00	-21.88	-6.39	3	Vertical	360	1.00
0.667MHz_TX	Pass	PK	326.82M	22.43	46.00	-23.57	-5.12	3	Vertical	360	1.00
0.667MHz_TX	Pass	PK	476.2M	28.00	46.00	-18.00	-1.44	3	Vertical	360	1.00
0.667MHz_TX	Pass	PK	536.34M	31.78	46.00	-14.22	0.07	3	Vertical	360	1.00
0.667MHz_TX	Pass	PK	109.54M	34.11	43.50	-9.39	-8.48	3	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	394.72M	35.08	46.00	-10.92	-3.32	3	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	656.62M	35.44	46.00	-10.56	0.49	3	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	730.34M	39.41	46.00	-6.59	1.57	3	Horizontal	0	1.00
0.667MHz_TX	Pass	PK	806M	42.91	46.00	-3.09	2.30	3	Horizontal	0	1.00
0.667MHz_TX	Pass	QP	536.46M	38.44	46.00	-7.56	0.08	3	Horizontal	46	1.00

**SRD**
**0.667MHz\_TX**

31/01/2024


**SRD**
**0.667MHz\_TX**

31/01/2024



**Summary**

Mode	20dB (Hz)	Fl-20dB (Hz)	Fh-20dB (Hz)	OBW (Hz)	Limit (Range)
SRD	-	-	-	-	-
0.667MHz	10.47k	662.49250k	672.96250k	11.323k	Inf

**Result**

Mode	Result	20dB (Hz)	Fl-20dB (Hz)	Fh-20dB (Hz)	OBW (Hz)	Fl-OBW (Hz)	Fh-OBW (Hz)	Limit (Range)
SRD	-	-	-	-	-	-	-	-
0.667MHz_TnomVnom	Pass	10.47k	662.49250k	672.96250k	11.323k	661.54788k	672.87115k	Inf

