

FCC Radio Test Report

FCC ID : BEJSP-PEW7
Equipment : Stylus Pen
Brand Name : LGE
Model Name : PEW7
Applicant : LG Electronics USA, Inc
111 Sylvan Avenue North Building Englewood Cliffs,
NJ 07632 United States
Manufacturer : Solid Year Co., Ltd.
18F-11, No.97, Sec.1, Xintai 5th Rd., Xizhi Dist.,
New Taipei City,R.O.C
Standard : 47 CFR FCC Part 15, Subpart C

The product was received on Jul. 05, 2023, and testing was started from Oct. 22, 2023 and completed on Nov. 16, 2023. 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.)



Table of Contents

HISTORY OF THIS TEST REPORT3

SUMMARY OF TEST RESULT4

1 GENERAL DESCRIPTION5

1.1 Information.....5

1.2 Testing Applied Standards6

1.3 Testing Location Information6

1.4 Measurement Uncertainty6

2 TEST CONFIGURATION OF EUT.....7

2.1 Test Channel Mode7

2.2 The Worst Case Configuration7

2.3 The Worst Case Measurement Configuration8

2.4 Accessories9

2.5 Support Equipment.....9

2.6 Test Setup Diagram10

3 TRANSMITTER TEST RESULT12

3.1 AC Power-line Conducted Emissions12

3.2 Transmitter Radiated Emissions14

3.3 Emission Bandwidth17

4 TEST EQUIPMENT AND CALIBRATION DATA.....18

APPENDIX A. TEST RESULT OF AC POWER-LINE CONDUCTED EMISSIONS

APPENDIX B. TEST RESULT OF TRANSMITTER RADIATED EMISSIONS

APPENDIX C. TEST RESULT OF EMISSION BANDWIDTH

APPENDIX D. TEST PHOTOS

PHOTOGRAPHS OF EUT v01



History of this test report

Report No.	Version	Description	Issued Date
FR362703AW	01	Initial issue of report	Dec. 06, 2023



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 General Information

Wireless Power Transfer General Information			
Frequency Range	Modulation	Operating Freq. (MHz)	Field Strength (dBuV/m)
13.56 MHz	ASK	13.56	54.32
Power Transfer Method	Output power from each primary coil	That may have multiple primary coils	Operating Method
Magnetic induction and only single primary coil	≤ 15W	No	TX source directly contact

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	INPAQ	RFNFC190400NNFB001	FPC antenna	N/A

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From Battery / Test fixture
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 normally 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%

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 680106 D01 Wireless Power Transfer v04
- ◆ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)		
		TEL: 886-3-327-3456	FAX: 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	21.9~22.3°C / 53~56%	16/Nov/2023
RF Conducted	TH01-HY	Vivi Jiang	22.2~23.4°C / 50~55%	22/Oct/2023
Radiated	03CH02-HY	Vasari Huang	21.5~23.1°C / 55~59%	13/Nov/2023
<input type="checkbox"/>	Wen 33rd. St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)		
		TEL: 886-3-318-0787	FAX: 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
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Transmitter Radiated Emissions	4.8 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	2.30 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	N/A
-----------------------	-----

Note: The EUT transmits RF Signal continuously by itself.

Mode	Power Setting
NFC	-
13.56MHz	default

2.2 The Worst Case Configuration


Mode	Field Strength (dBuV/m at 3 m)	Charger Frequencies (MHz)
NFC	54.32	13.56

Note.1: Wireless charger were performed all charging conditions including variable loading and non-charging operation, the worst mode is full charging loading.

Note.2: Wireless charger frequencies are variable frequency range (13.56 MHz) and depend on charging loading.

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 Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
	1. Charging Fixture Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	Transmitter Radiated Emissions, Emission Bandwidth
Test Condition	Radiated measurement
Operating Mode	CTX
	1. Charging Fixture Mode
Orthogonal Planes of EUT	Z Plane
	

2.4 Accessories

Accessories				
Battery	Brand Name	Miyear	Model Name	M60340
	Manufacturer	Dongguan Miyear Battery Co.,Ltd.	SN	-
	Power Rating	3.85Vdc, 80 mAh	Type	Li-ion, Yes

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

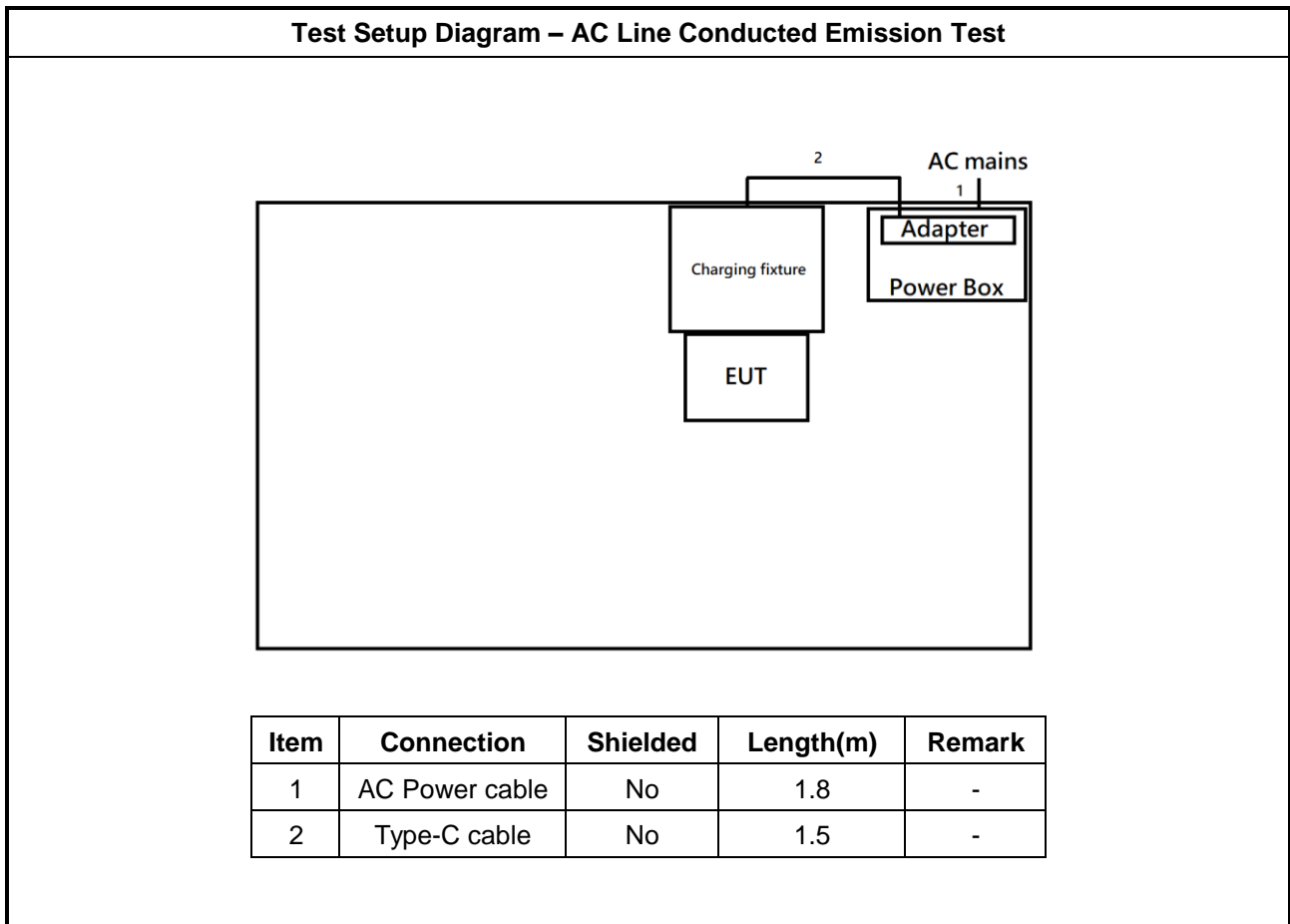
2.5 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Type-C Cable	UGREEN	US288	-	-
2	Adapter	LG	LP65WGC20P-EK B	-	Provided by Customer
3	Charging fixture	solidyear	MPP-S08 charge fixture	-	Provided by Customer

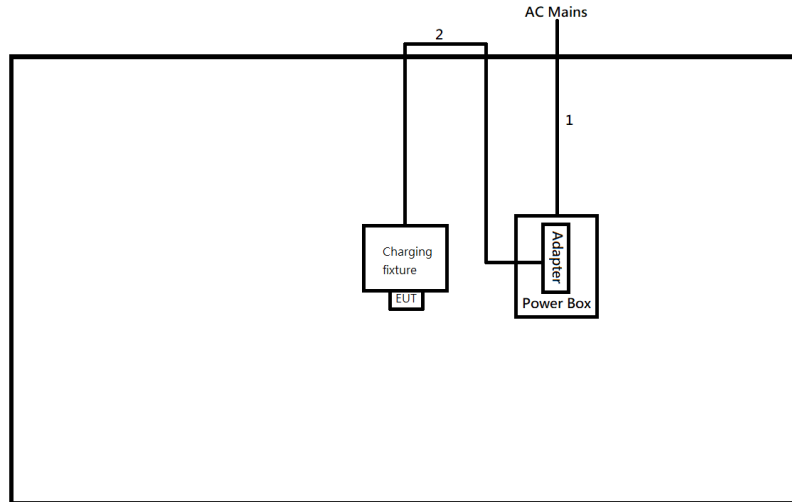
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Type-C Cable	UGREEN	US288	-	-
2	Adapter	Xiaomi	MDY-12-EJ	-	Provided by Customer

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Type-C Cable	UGREEN	US288	-	-
2	Adapter	LG	LP65WGC20P-EK B	-	Provided by Customer
3	Charging fixture	solidyear	MPP-S08 charge fixture	-	Provided by Customer

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	Type-C cable	No	1.5	-

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

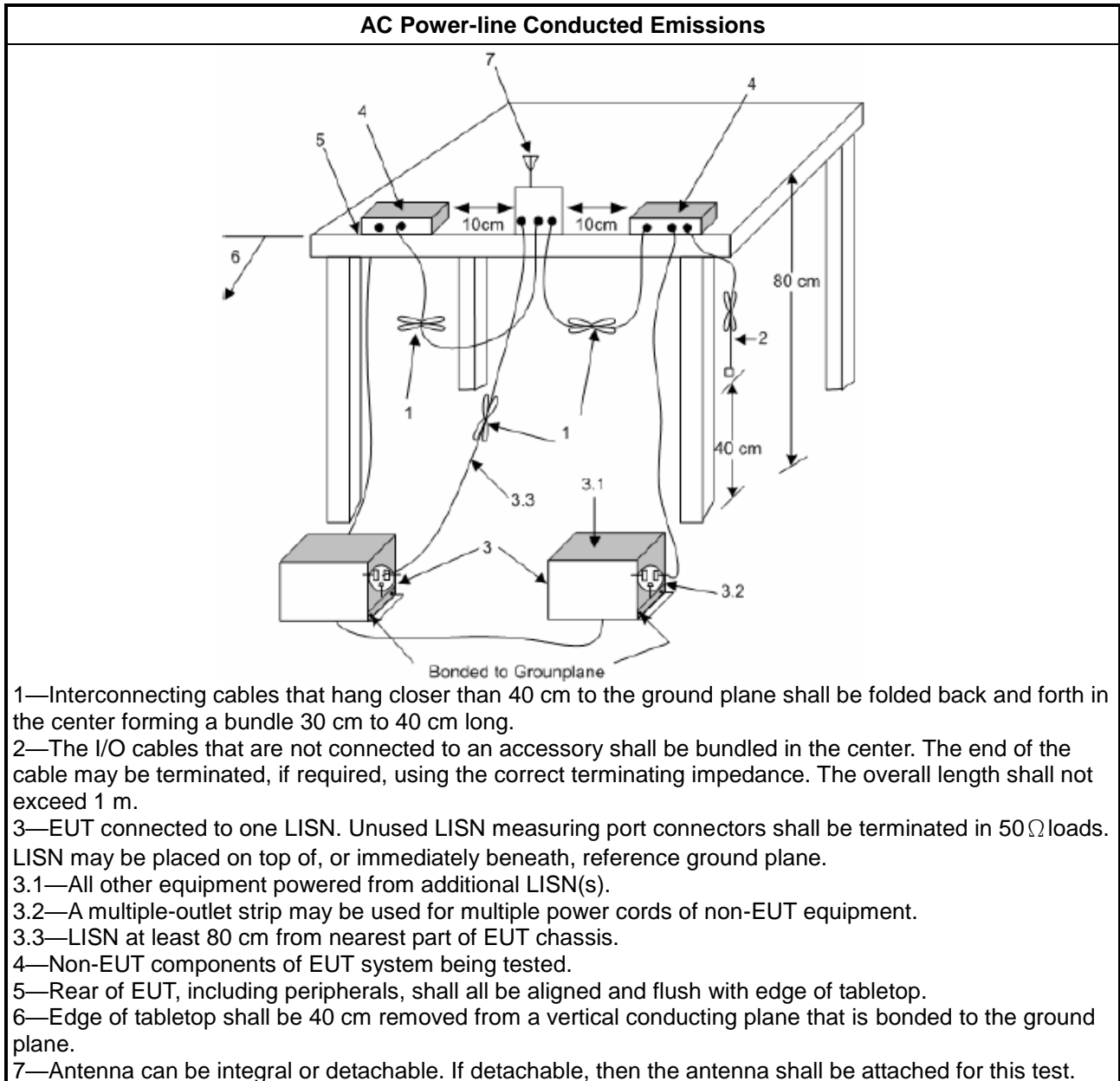
Test Method	
<input checked="" type="checkbox"/>	Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.
<input checked="" type="checkbox"/>	If AC conducted emissions fall in operating band, then following below test method confirm final result.
<input type="checkbox"/>	Accept measurements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

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



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

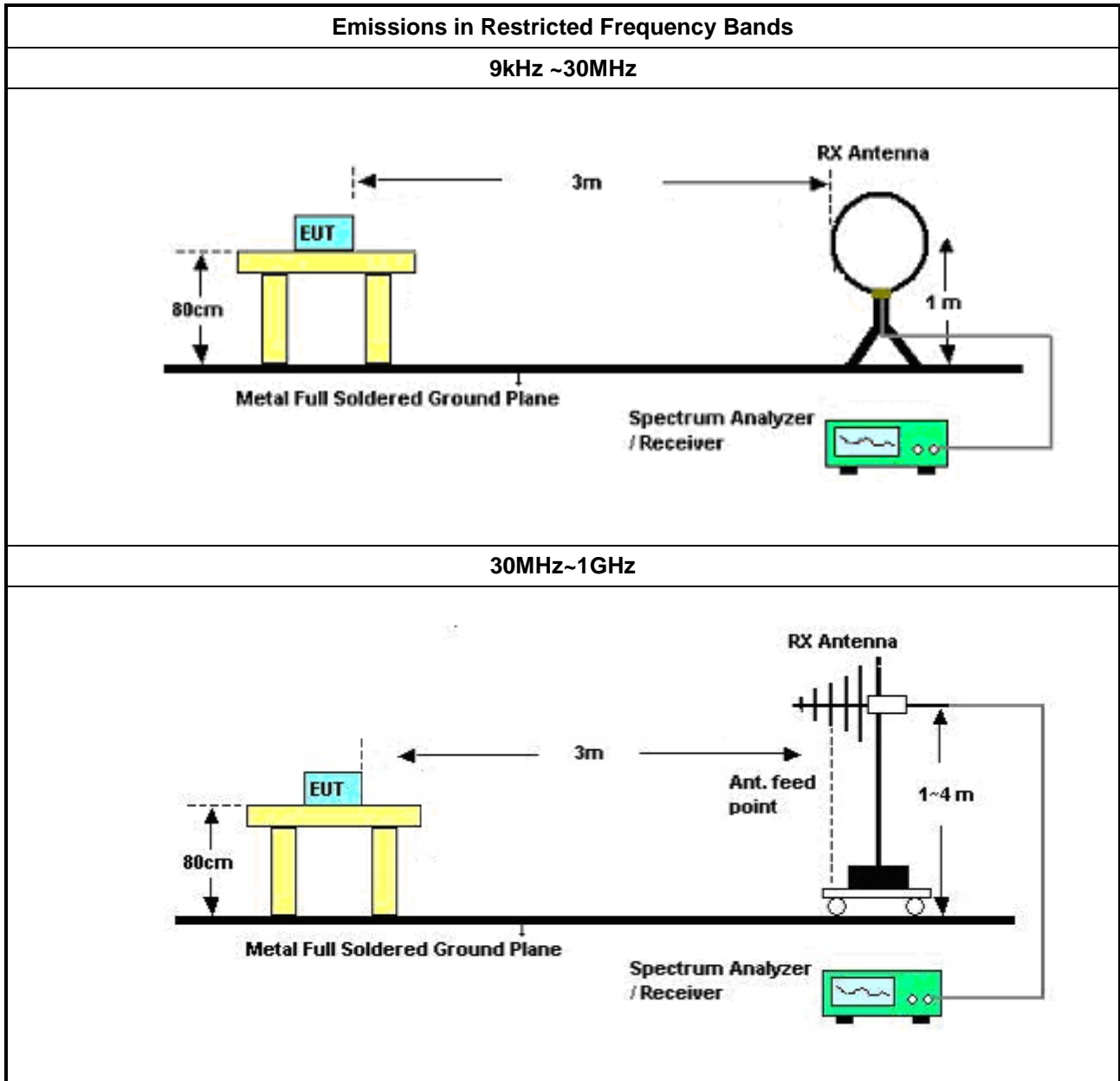
Test Method	
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1 GHz and test distance is 3m.
<input checked="" type="checkbox"/>	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz the frequency bands 9-90 kHz, 110-490 kHz measurements employing an average detector and other below 30MHz measurements employing a CISPR quasi-peak detector. Test distance is 3 m.
<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.
<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 checked="" 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 checked="" 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(Preamplifier Factor)

3.2.5 Test Setup



3.2.6 Transmitter Radiated Emissions (Below 30MHz)

Refer as Appendix B

3.2.7 Transmitter Radiated Emissions (Above 30MHz)

Refer as Appendix B

3.3 Emission Bandwidth

3.3.1 Emission Bandwidth Limit

Emission Bandwidth Limit
N/A

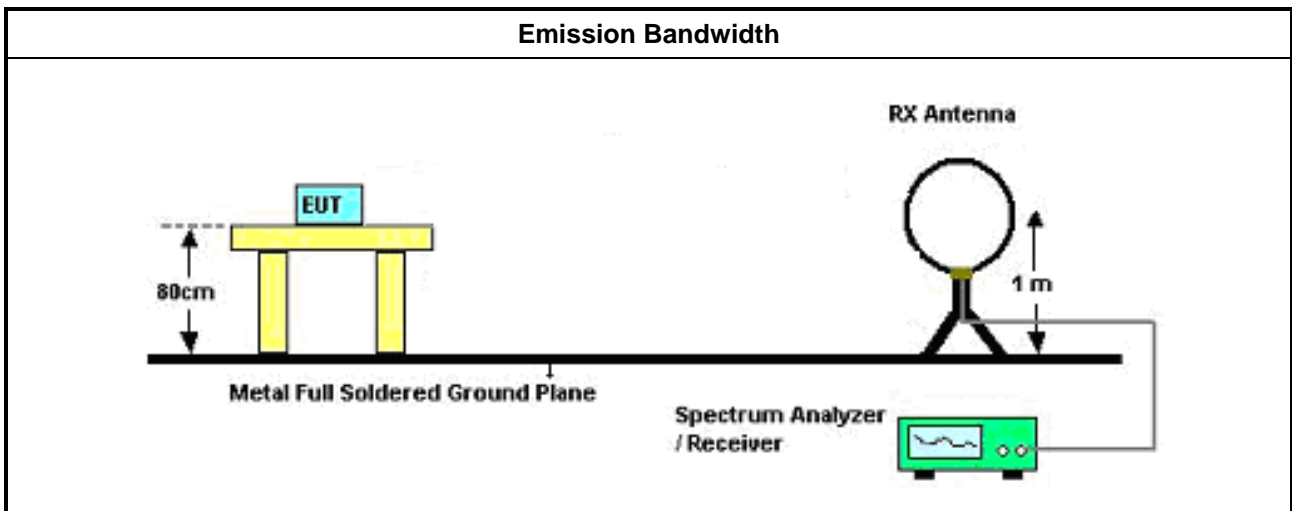
3.3.2 Measuring Instruments

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.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	16/May/2023	15/May/2024
Two-Line V-Network	R&S	ENV 216	101295	150kHz~30MHz	31/Jan/2023	30/Jan/2024
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	28/Feb/2023	27/Feb/2024
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.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	10/Apr/2023	09/Apr/2024
Programmable Temp. & Humi. Chamber	Giant Force	GTH-225-20-S P-SD	MAA1112-007	-20~100°C	17/May/2023	16/May/2024
SENSE-NFC	Sporton	V5.11.0	N/A	N/A	N/A	N/A

Instrument for Radiated Test below 30MHz

Instrument	Manufacturer / Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	29/Jul/2023	28/Jul/2024
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	25/Mar/2023	24/Mar/2024
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	9kHz~30MHz	20/Dec/2022	19/Dec/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	23/Mar/2023	22/Mar/2024
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	26/May/2023	25/May/2024
SENSE-NFC	Sporton	V5.11.0.0	NA	NA	NA	NA



Instrument for Radiated Test above 30MHz

Instrument	Manufacturer / Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	29/Jul/2023	28/Jul/2024
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	25/Mar/2023	24/Mar/2024
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723/2	30MHz~1GHz	27/Aug/2023	26/Aug/2024
Amplifier	Aglient	8447D	2944A11149	100kHz~1.3GHz	27/Jun/2023	26/Jun/2024
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	30MHz~1GHz	20/Dec/2022	19/Dec/2023
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	26/May/2023	25/May/2024
SENSE-NFC	Sporton	V5.11.0.0	NA	NA	NA	NA



Summary

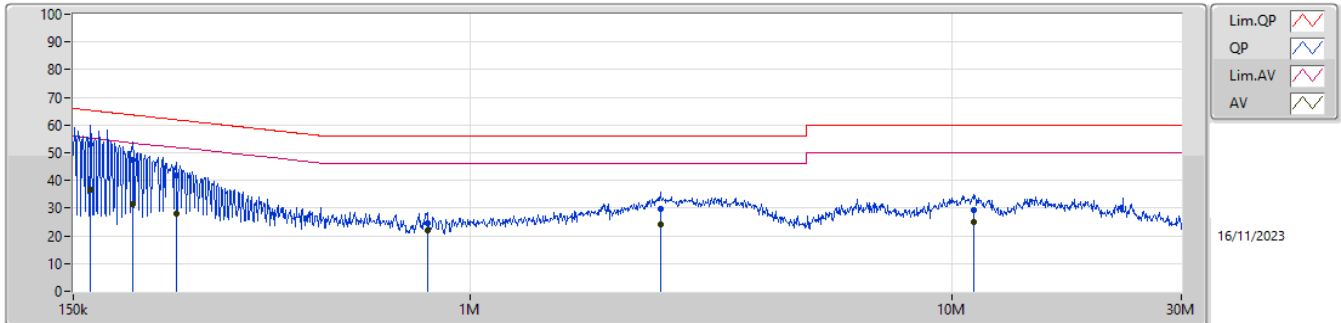
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	163.117k	53.05	65.31	-12.26	Line



Result

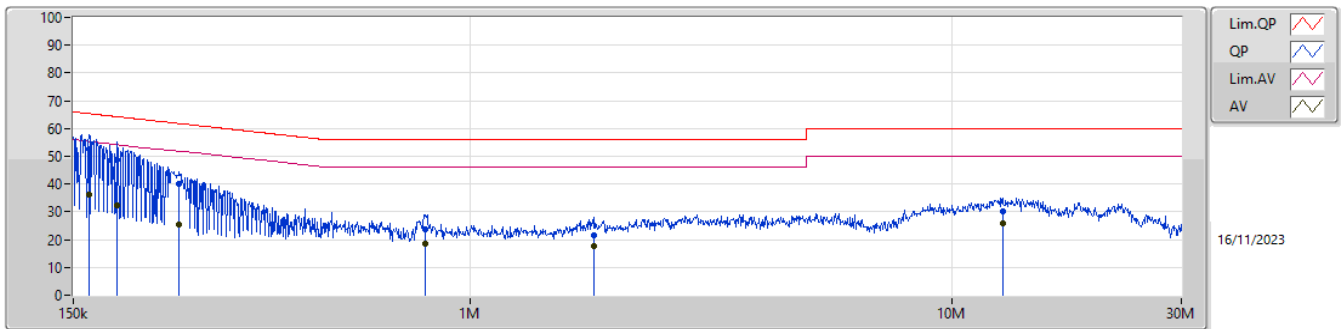
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	163.117k	53.05	65.31	-12.26	Line	-
Mode 1	Pass	AV	163.117k	36.65	55.31	-18.66	Line	-
Mode 1	Pass	QP	199.152k	47.46	63.65	-16.19	Line	-
Mode 1	Pass	AV	199.152k	31.50	53.65	-22.15	Line	-
Mode 1	Pass	QP	245.097k	41.63	61.93	-20.30	Line	-
Mode 1	Pass	AV	245.097k	28.03	51.93	-23.90	Line	-
Mode 1	Pass	QP	815.052k	24.38	56.00	-31.62	Line	-
Mode 1	Pass	AV	815.052k	22.17	46.00	-23.83	Line	-
Mode 1	Pass	QP	2.483M	29.73	56.00	-26.27	Line	-
Mode 1	Pass	AV	2.483M	24.09	46.00	-21.91	Line	-
Mode 1	Pass	QP	11.137M	29.31	60.00	-30.69	Line	-
Mode 1	Pass	AV	11.137M	25.21	50.00	-24.79	Line	-
Mode 1	Pass	QP	161.82k	52.52	65.37	-12.85	Neutral	-
Mode 1	Pass	AV	161.82k	36.34	55.37	-19.03	Neutral	-
Mode 1	Pass	QP	185.344k	48.86	64.24	-15.38	Neutral	-
Mode 1	Pass	AV	185.344k	32.23	54.24	-22.01	Neutral	-
Mode 1	Pass	QP	249.042k	40.11	61.79	-21.68	Neutral	-
Mode 1	Pass	AV	249.042k	25.52	51.79	-26.27	Neutral	-
Mode 1	Pass	QP	805.349k	23.88	56.00	-32.12	Neutral	-
Mode 1	Pass	AV	805.349k	18.54	46.00	-27.46	Neutral	-
Mode 1	Pass	QP	1.811M	21.56	56.00	-34.44	Neutral	-
Mode 1	Pass	AV	1.811M	17.83	46.00	-28.17	Neutral	-
Mode 1	Pass	QP	12.756M	30.35	60.00	-29.65	Neutral	-
Mode 1	Pass	AV	12.756M	26.07	50.00	-23.93	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	163.117k	53.05	65.31	-12.26	19.36	Line	-	33.69	9.59	0.03	9.74
AV	163.117k	36.65	55.31	-18.66	19.36	Line	-	17.29	9.59	0.03	9.74
QP	199.152k	47.46	63.65	-16.19	19.30	Line	-	28.16	9.59	0.03	9.68
AV	199.152k	31.50	53.65	-22.15	19.30	Line	-	12.20	9.59	0.03	9.68
QP	245.097k	41.63	61.93	-20.30	19.32	Line	-	22.31	9.59	0.03	9.70
AV	245.097k	28.03	51.93	-23.90	19.32	Line	-	8.71	9.59	0.03	9.70
QP	815.052k	24.38	56.00	-31.62	19.45	Line	-	4.93	9.61	0.05	9.79
AV	815.052k	22.17	46.00	-23.83	19.45	Line	-	2.72	9.61	0.05	9.79
QP	2.483M	29.73	56.00	-26.27	19.55	Line	-	10.18	9.65	0.10	9.80
AV	2.483M	24.09	46.00	-21.91	19.55	Line	-	4.54	9.65	0.10	9.80
QP	11.137M	29.31	60.00	-30.69	19.72	Line	-	9.59	9.72	0.20	9.80
AV	11.137M	25.21	50.00	-24.79	19.72	Line	-	5.49	9.72	0.20	9.80

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	161.82k	52.52	65.37	-12.85	19.37	Neutral	-	33.15	9.60	0.03	9.74
AV	161.82k	36.34	55.37	-19.03	19.37	Neutral	-	16.97	9.60	0.03	9.74
QP	185.344k	48.86	64.24	-15.38	19.33	Neutral	-	29.53	9.60	0.03	9.70
AV	185.344k	32.23	54.24	-22.01	19.33	Neutral	-	12.90	9.60	0.03	9.70
QP	249.042k	40.11	61.79	-21.68	19.34	Neutral	-	20.77	9.60	0.03	9.71
AV	249.042k	25.52	51.79	-26.27	19.34	Neutral	-	6.18	9.60	0.03	9.71
QP	805.349k	23.88	56.00	-32.12	19.45	Neutral	-	4.43	9.61	0.05	9.79
AV	805.349k	18.54	46.00	-27.46	19.45	Neutral	-	-0.91	9.61	0.05	9.79
QP	1.811M	21.56	56.00	-34.44	19.50	Neutral	-	2.06	9.62	0.08	9.80
AV	1.811M	17.83	46.00	-28.17	19.50	Neutral	-	-1.67	9.62	0.08	9.80
QP	12.756M	30.35	60.00	-29.65	19.74	Neutral	-	10.61	9.71	0.22	9.81
AV	12.756M	26.07	50.00	-23.93	19.74	Neutral	-	6.33	9.71	0.22	9.81



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Azimuth (°)	Height (m)
13.553-13.567MHz	-	-	-	-	-	-	-	-	-
NFC	Pass	PK	13.561M	54.32	69.50	-15.18	3	360	1.00

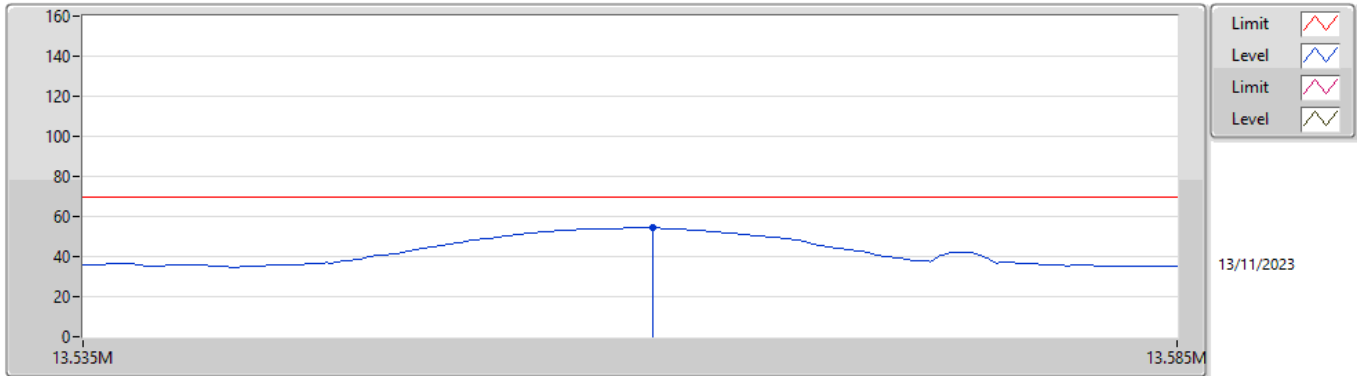


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Azimuth (°)	Height (m)
NFC	-	-	-	-	-	-	-	-	-
13.56MHz_Charging Mode	Pass	PK	13.561M	54.32	69.50	-15.18	3	360	1.00
13.56MHz_Charging Mode	Pass	PK	30.714k	50.34	137.86	-87.52	3	0	1.00
13.56MHz_Charging Mode	Pass	PK	44.814k	48.70	134.58	-85.88	3	0	1.00
13.56MHz_Charging Mode	Pass	PK	98.676k	38.42	107.72	-69.30	3	0	1.00
13.56MHz_Charging Mode	Pass	PK	627.6k	45.31	71.65	-26.34	3	360	1.00
13.56MHz_Charging Mode	Pass	PK	1.881M	54.13	69.50	-15.37	3	360	1.00
13.56MHz_Charging Mode	Pass	PK	2.896M	39.65	69.50	-29.85	3	360	1.00

NFC

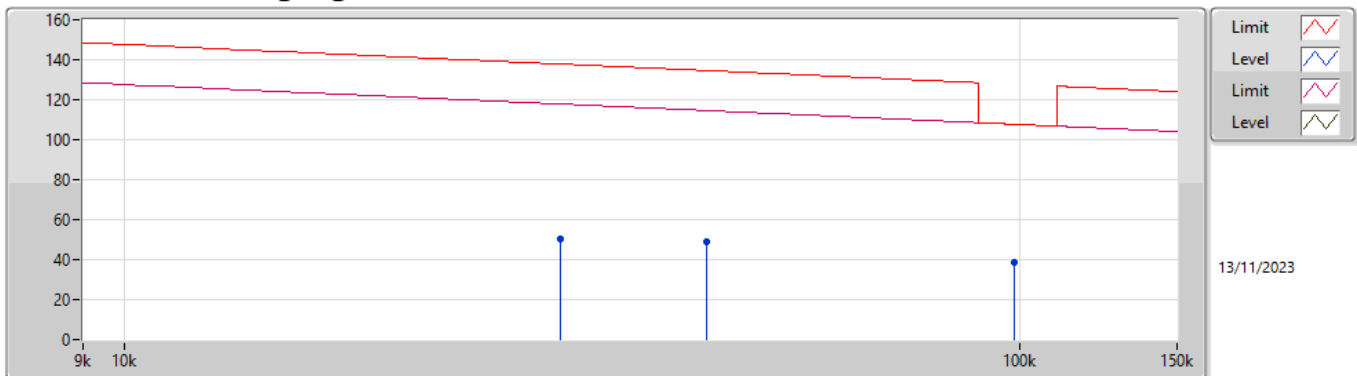
13.56MHz_Charging Mode



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	13.561M	54.32	69.50	-15.18	23.06	3	Horizontal	360	-	31.26	22.20	0.86	-

NFC

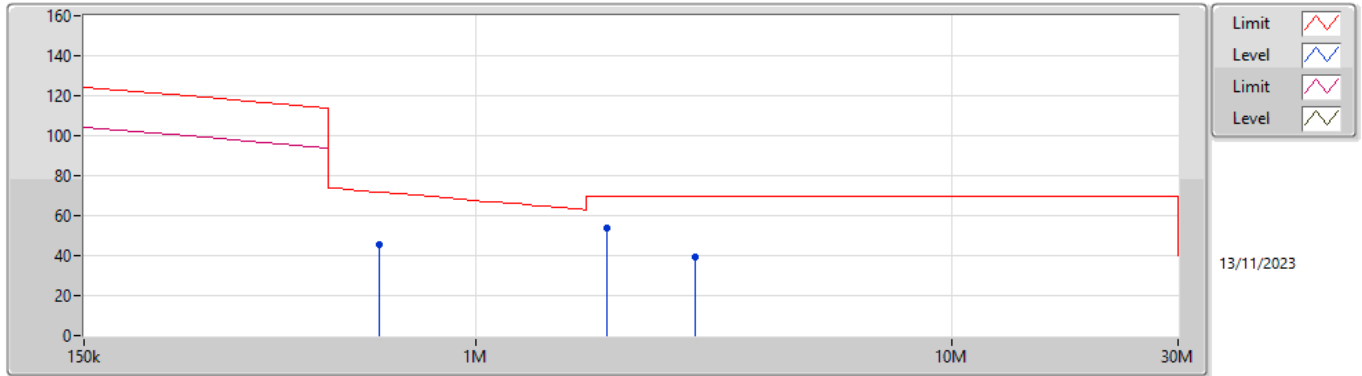
13.56MHz_Charging Mode



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30.714k	50.34	137.86	-87.52	21.14	3	Horizontal	0	-	29.20	21.03	0.11	-
PK	44.814k	48.70	134.58	-85.88	20.52	3	Horizontal	0	-	28.18	20.40	0.12	-
PK	98.676k	38.42	107.72	-69.30	19.71	3	Horizontal	0	-	18.71	19.57	0.14	-

NFC

13.56MHz_Charging Mode



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	627.6k	45.31	71.65	-26.34	20.33	3	Horizontal	360	-	24.98	20.10	0.23	-
PK	1.881M	54.13	69.50	-15.37	20.03	3	Horizontal	360	-	34.10	19.73	0.30	-
PK	2.896M	39.65	69.50	-29.85	20.18	3	Horizontal	360	-	19.47	19.70	0.48	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Azimuth (°)	Height (m)
13.553-13.567MHz	-	-	-	-	-	-	-	-	-
NFC	Pass	QP	37.46M	35.40	40.00	-4.60	3	59	1.00

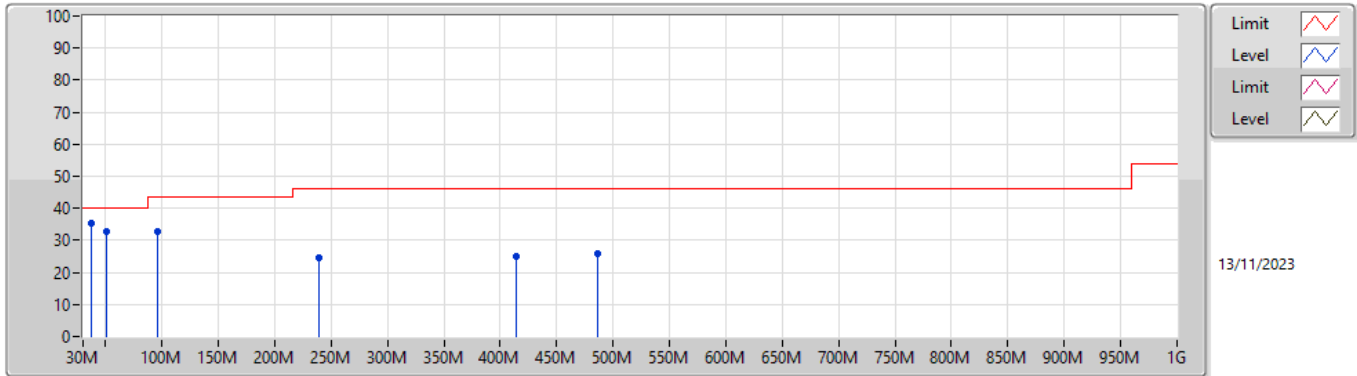


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Azimuth (°)	Height (m)
NFC	-	-	-	-	-	-	-	-	-
13.56MHz_Charging Mode	Pass	PK	51.34M	32.84	40.00	-7.16	3	360	1.00
13.56MHz_Charging Mode	Pass	PK	95.96M	32.92	43.50	-10.58	3	360	1.00
13.56MHz_Charging Mode	Pass	PK	239.52M	24.56	46.00	-21.44	3	360	1.00
13.56MHz_Charging Mode	Pass	PK	414.12M	25.07	46.00	-20.93	3	360	1.00
13.56MHz_Charging Mode	Pass	PK	485.9M	26.06	46.00	-19.94	3	360	1.00
13.56MHz_Charging Mode	Pass	QP	37.46M	35.40	40.00	-4.60	3	59	1.00
13.56MHz_Charging Mode	Pass	PK	148.34M	30.04	43.50	-13.46	3	0	1.00
13.56MHz_Charging Mode	Pass	PK	196.84M	24.96	43.50	-18.54	3	0	1.00
13.56MHz_Charging Mode	Pass	PK	270.56M	26.35	46.00	-19.65	3	0	1.00
13.56MHz_Charging Mode	Pass	PK	414.12M	24.98	46.00	-21.02	3	0	1.00
13.56MHz_Charging Mode	Pass	PK	547.98M	27.32	46.00	-18.68	3	0	1.00
13.56MHz_Charging Mode	Pass	QP	30.68M	33.92	40.00	-6.08	3	29	1.00

NFC

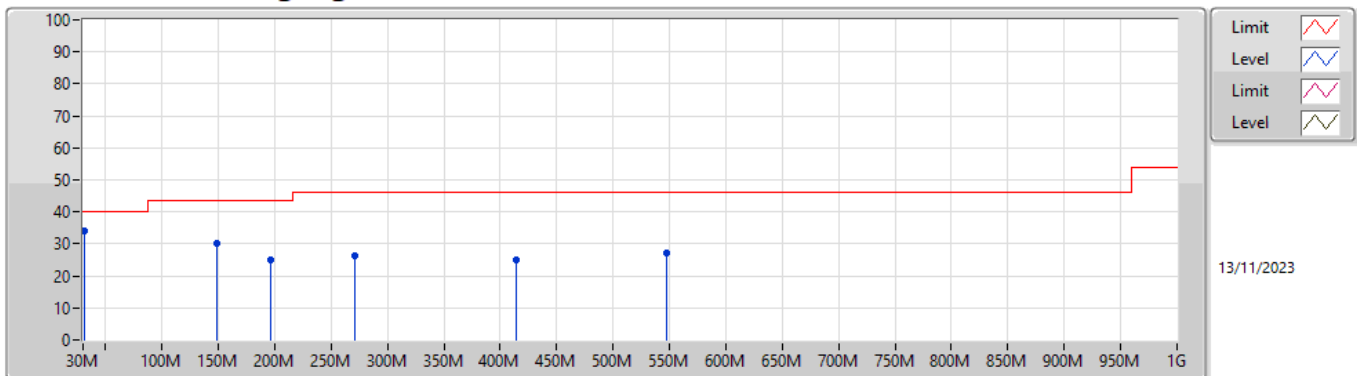
13.56MHz_Charging Mode



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	51.34M	32.84	40.00	-7.16	-12.41	3	Vertical	360	1.00	45.25	13.15	1.42	26.98
PK	95.96M	32.92	43.50	-10.58	-10.61	3	Vertical	360	1.00	43.53	15.29	1.93	27.83
PK	239.52M	24.56	46.00	-21.44	-7.83	3	Vertical	360	1.00	32.39	16.45	2.99	27.27
PK	414.12M	25.07	46.00	-20.93	-2.30	3	Vertical	360	1.00	27.37	21.73	4.01	28.04
PK	485.9M	26.06	46.00	-19.94	-1.39	3	Vertical	360	1.00	27.45	22.63	4.37	28.39
QP	37.46M	35.40	40.00	-4.60	-6.40	3	Vertical	59	1.00	41.80	19.07	1.37	26.84

NFC

13.56MHz_Charging Mode



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	148.34M	30.04	43.50	-13.46	-9.61	3	Horizontal	0	1.00	39.65	15.74	2.39	27.74
PK	196.84M	24.96	43.50	-18.54	-10.33	3	Horizontal	0	1.00	35.29	14.40	2.76	27.49
PK	270.56M	26.35	46.00	-19.65	-6.03	3	Horizontal	0	1.00	32.38	18.07	3.14	27.24
PK	414.12M	24.98	46.00	-21.02	-2.30	3	Horizontal	0	1.00	27.28	21.73	4.01	28.04
PK	547.98M	27.32	46.00	-18.68	-0.24	3	Horizontal	0	1.00	27.56	23.93	4.52	28.69
QP	30.68M	33.92	40.00	-6.08	-3.54	3	Horizontal	29	1.00	37.46	22.57	1.23	27.34



Summary

Mode	20dB (Hz)	FI-20dB (Hz)	Fh-20dB (Hz)	OBW (Hz)	Limit (Range)
13.553-13.567MHz	-	-	-	-	-
NFC	2.59k	13.55864M	13.56123M	2.248k	13.553-13.567

Result

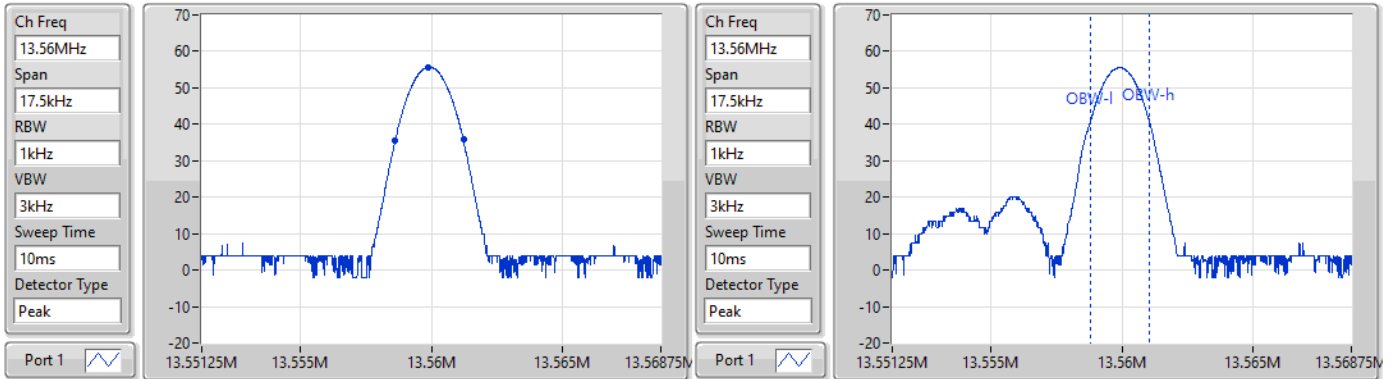
Mode	Result	20dB (Hz)	FI-20dB (Hz)	Fh-20dB (Hz)	OBW (Hz)	FI-OBW (Hz)	Fh-OBW (Hz)	Limit (Range)
NFC	-	-	-	-	-	-	-	-
13.56MHz_TnomVnom	Pass	2.59k	13.55864M	13.56123M	2.248k	13.55878M	13.56103M	13.553-13.567

NFC

EBW

13.56MHz_TnomVnom

22/10/2023



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Range)
2.59k	13.55864M	13.56123M	2.248k	13.55878M	13.56103M	13.553-13.56