

TEST REPORT

Report Number: 15107858-E14V2

Applicant: Google LLC
1600 Amphitheatre Parkway
Mountain View, CA 94043 U.S.A.

Model: GGX8B

FCC ID: A4RGGX8B

EUT Description: Phone

Test Standard(s): FCC 47 CFR PART 15 SUBPART C

Date Of Issue:
2024-04-23

Prepared by:
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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2024-04-16	Initial Issue	---
V2	2024-04-23	Revised Section 5.4, 7, Page 12 to address TCB's questions.	Tina Chu

TABLE OF CONTENTS

REPORT REVISION HISTORY	2
1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	6
3. FACILITIES AND ACCREDITATION	6
4. DECISION RULES AND MEASUREMENT UNCERTAINTY	7
4.1. <i>METROLOGICAL TRACEABILITY</i>	7
4.2. <i>DECISION RULES</i>	7
4.3. <i>MEASUREMENT UNCERTAINTY</i>	7
4.4. <i>SAMPLE CALCULATION</i>	7
5. EQUIPMENT UNDER TEST	8
5.1. <i>DESCRIPTION OF EUT</i>	8
5.2. <i>MAXIMUM E-FIELD STRENGTH</i>	8
5.3. <i>DESCRIPTION OF AVAILABLE ANTENNAS</i>	8
5.4. <i>WORST-CASE CONFIGURATION AND MODE</i>	8
6. TEST AND MEASUREMENT EQUIPMENT	9
7. 99% BANDWIDTH AND 20dB BANDWIDTH	10
8. RADIATED EMISSION TEST RESULTS	11
8.1. <i>LIMITS AND PROCEDURE</i>	11
8.2. <i>FUNDAMENTAL EMISSION MASK</i>	13
8.3. <i>SPURIOUS EMISSION 0.15-30 MHz</i>	14
8.4. <i>SPURIOUS EMISSION 30-1000 MHz</i>	15
9. FREQUENCY STABILITY	17
10. AC MAINS LINE CONDUCTED EMISSIONS	18
10.1. <i>NFC NON-TERMINATED</i>	19
10.2. <i>NFC TERMINATED</i>	21
11. DESCRIPTION OF TEST SETUP AND SETUP PHOTOS	23

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Google LLC
1600 Amphitheatre Parkway
Mountain View, CA 94043 U.S.A.

EUT DESCRIPTION: Phone

MODEL NUMBER: GGX8B

SERIAL NUMBER: 41031FDAS0002T, 3B061FDAS00028,
41121FDAS000BS (NFC terminated)

SAMPLE RECEIPT DATE: 2024-01-23

DATE TESTED: 2024-02-15 TO 2024-04-23

APPLICABLE STANDARDS

STANDARD

TEST RESULTS

FCC PART 15 SUBPART C

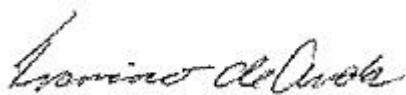
Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

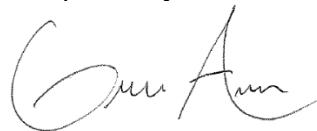
This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

Approved & Released For
UL Verification Services Inc. By:



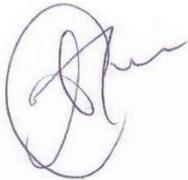
Francisco de Anda
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Senior Test Engineer
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Reviewed By:



Tina Chu
Senior Project Engineer
Consumer Technology Division
UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15
- ANSI C63.10-2013
- KDB 414788 D01 Radiated Test Site

3. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
<input type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA			
<input type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
<input type="checkbox"/>	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA	US0104	2324A	550739
<input type="checkbox"/>	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

4.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.).

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U_{Lab}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Temperature	0.57 %
Relative Humidity	3.39 %
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB

Uncertainty figures are valid to a confidence level of 95%.

4.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB)

– Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

36.5 dBuV + 0 dB +10.1 dB+ 0 dB = 46.6 dBuV

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a phone.

5.2. MAXIMUM E-FIELD STRENGTH

The transmitter has maximum peak radiated electric field strength as follows:

Fundamental Frequency (MHz)	E field (30m distance) (dBuV/m)
13.56	30.32

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a loop antenna.

5.4. WORST-CASE CONFIGURATION AND MODE

The EUT supports:

Type A 106kbps

Type B 106kbps

Type F 212kbps, 424kbps

Type V 106kbps

Fundamental of each data rate has been investigated with command set at max power transmit as worse case with/without NFC tag, it was determined that Type A 106kbps without NFC tag is the worst case and was selected for all final tests.

The fundamental of the EUT was investigated under three orthogonal orientations X (Flatbed), Y (Landscape), and Z (Portrait), with/without adapter/earphone. The Y (Landscape) orientation with adapter was determined to be the worst-case configuration.

6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment were utilized for the tests documented in this report:

Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO METRICS	EM-6871	219908	2024-09-30	2023-09-13
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO METRICS	EM-6872	219910	2024-05-31	2023-05-31
Antenna, Broadband Hybrid, 30MHz to 3GHz	Sunol Sciences Corp.	JB3	80293	2024-04-30	2023-04-11
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	230547	2025-02-28	2024-02-11
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	213877	2024-12-31	2023-12-27
PXA Signal Analyzer	Keysight Technologies Inc	N9030B	245120	2025-02-07	2024-02-07
Environmental Chamber	Thermotron Industries	SM-16C Mini-Max	89097	2024-06-30	2023-12-15
AC MAINS LINE CONDUCTED EMISSIONS TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
LISN	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2-01-480V	175765	2025-01-31	2024-01-26
EMI TEST RECEIVER	Rohde & Schwarz	ESR	171646	2024-08-31	2023-08-10
Transient Limiter	TE	TBFL1	207996	2024-08-31	2023-08-10
UL AUTOMATION SOFTWARE					
Radiated Software	UL	UL EMC		Rev 9.5, 2023-01-05	
AC Line Conducted Software	UL	UL EMC		Rev 9.5, 2023-03-03	

7. 99% BANDWIDTH AND 20dB BANDWIDTH

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 10kHz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal occupied bandwidth function is utilized to measure 99% bandwidth and 20dB bandwidth.

Note: 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.

RESULTS

ID:	32933 LM
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Mode Kbps	Frequency (MHz)	99% Bandwidth (kHz)	20dB Bandwidth (kHz)
106	13.56	21.15	24.96



8. RADIATED EMISSION TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMIT

§15.225

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/ meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110– 14.010 MHz and shall not exceed the general radiated emission limits in § 15.209 as follows:

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (μ V/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

Formula for converting the filed strength from uV/m to dBuV/m is:

Limit (dBuV/m) = 20 log limit (uV/m)

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 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 report in the table) using free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y - 51.5 = Z$ dBuA/m, which has the same margin, W dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

In addition:

§15.209 (d) The emission limits shown the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

§15.209 (d) The provisions in §§ 15.225, measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this part.

TEST PROCEDURE

ANSI C63.10, 2013

The EUT is an intentional radiator that incorporates a digital device, the highest fundamental frequency generated or used in the device is 13.56 MHz; therefore, the frequency range was investigated from 0.15 MHz to the 10th harmonic of the highest fundamental frequency, or 1000 MHz, whichever is greater.

For measurements below 30MHz, the resolution bandwidth 9kHz to 150kHz is set to 300Hz, video bandwidth is set to 1kHz. 150kHz to 30MHz, the resolution bandwidth is set to 10kHz, video bandwidth is set to 30kHz.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only. Blue color trace on plots: Parallel orientation (face on). Green color trace on plots: Perpendicular orientation (face off).

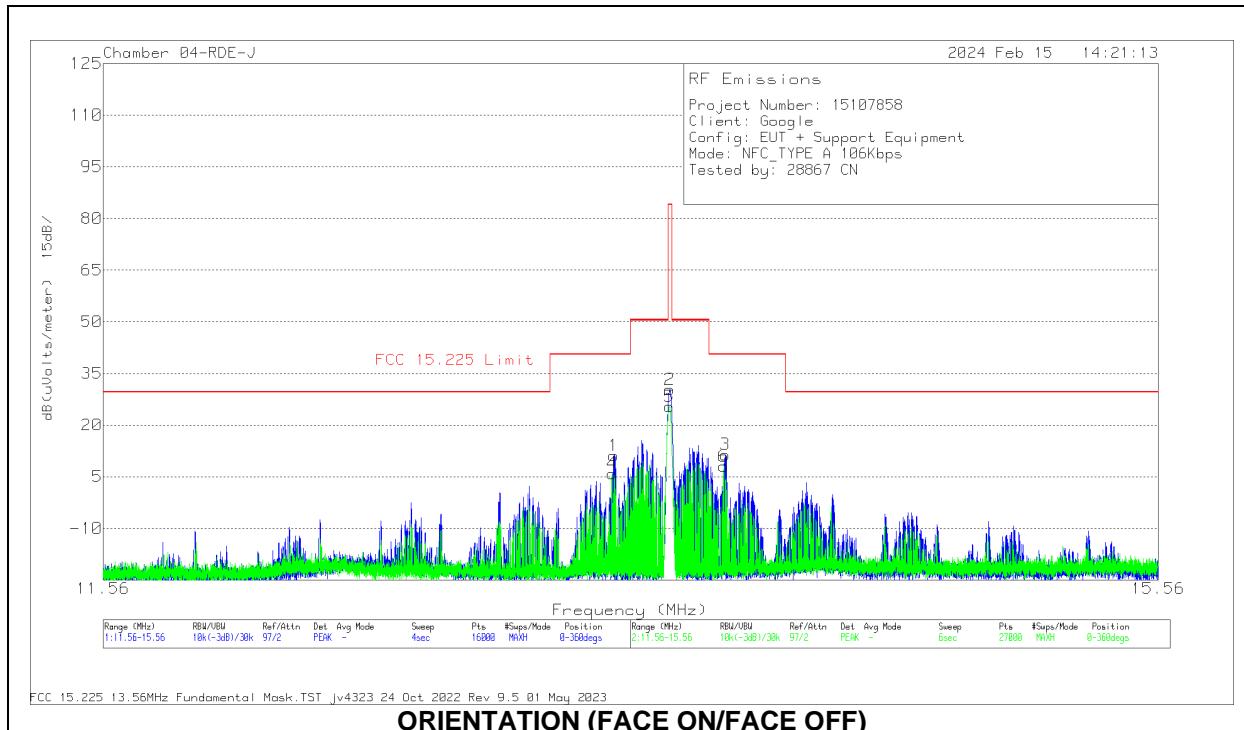
KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

RESULTS

8.2. FUNDAMENTAL EMISSION MASK

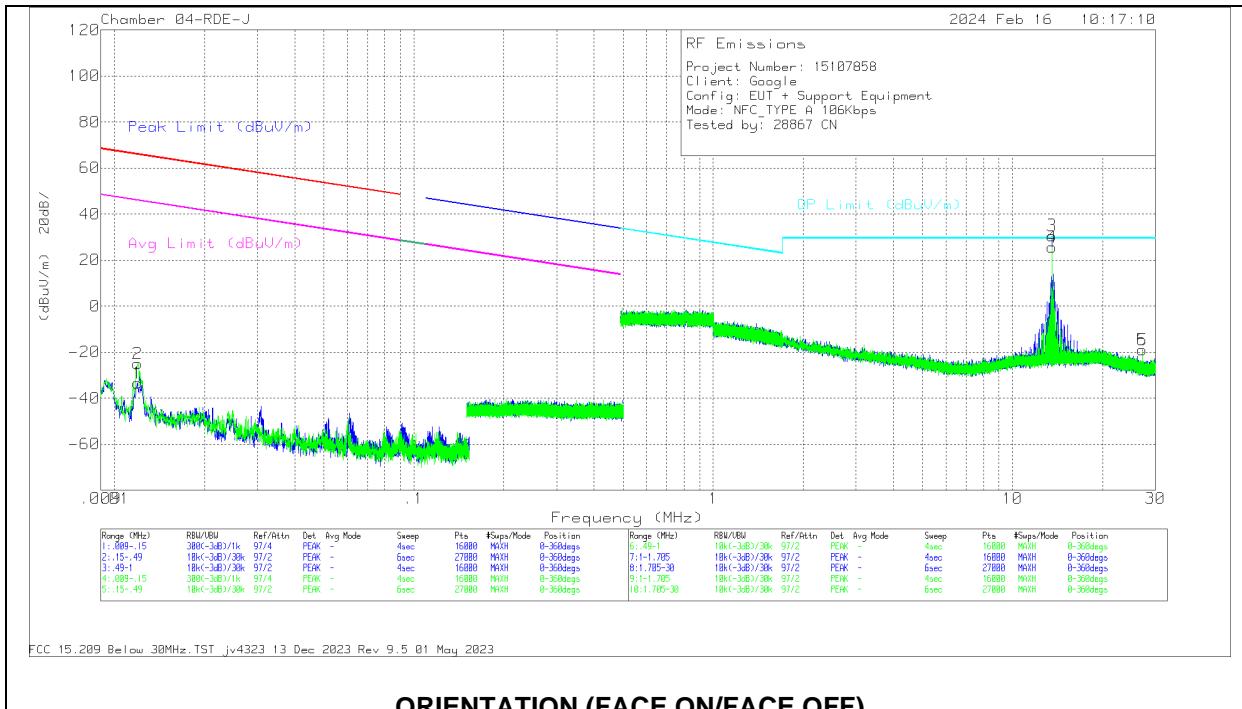


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) (dB/m)	CBL/AMP (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading dB(uV/m)	FCC 15.225 Limit dB(uV/m)	PK Margin (dB)	Azimuth (Degs)	Antenna orientation
4	13.3422	43.28	Pk	34.3	-31.7	-40	5.88	40.51	-34.63	0-360	Face off
1	13.3475	48.52	Pk	34.3	-31.7	-40	11.12	40.51	-29.39	0-360	Face on
5	13.558	63.09	Pk	34.3	-32	-40	25.39	84	-58.61	0-360	Face off
2	13.5595	68.02	Pk	34.3	-32	-40	30.32	84	-53.68	0-360	Face on
6	13.7676	45.56	Pk	34.2	-31.7	-40	8.06	40.51	-32.45	0-360	Face off
3	13.7743	48.93	Pk	34.2	-31.7	-40	11.43	40.51	-29.08	0-360	Face on

Pk - Peak detector

8.3. SPURIOUS EMISSION 0.15-30 MHz



ORIENTATION (FACE ON/FACE OFF)

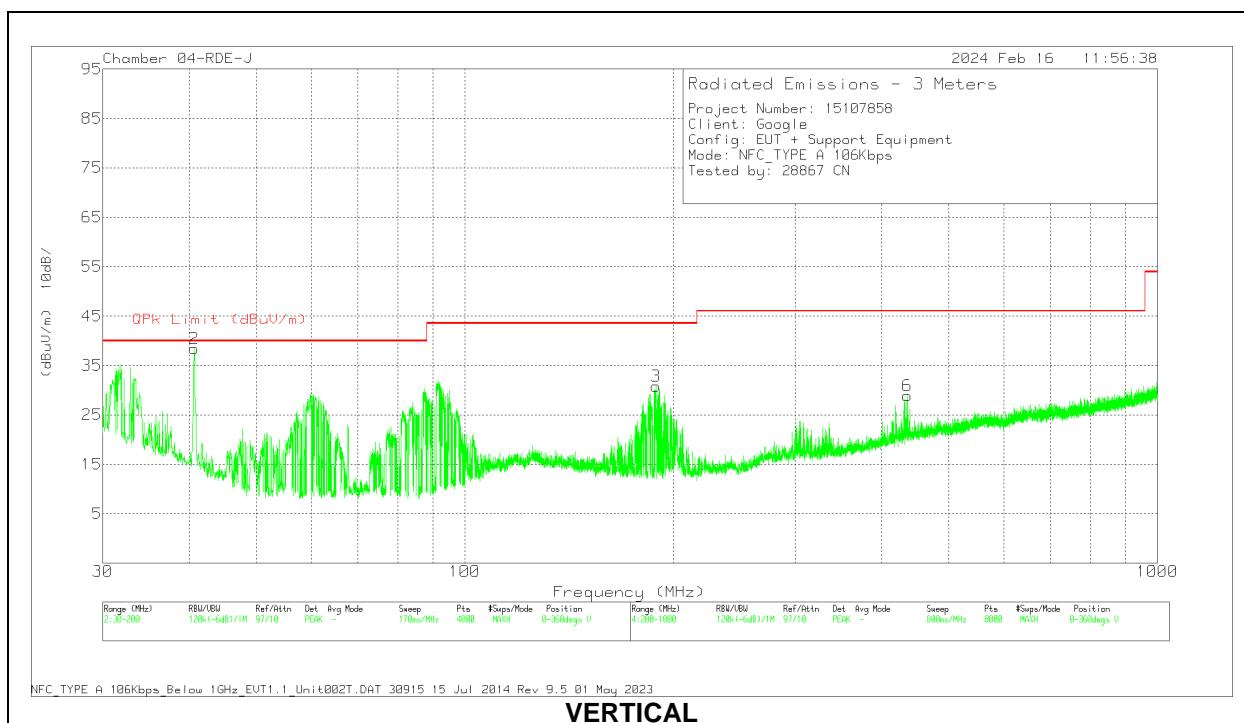
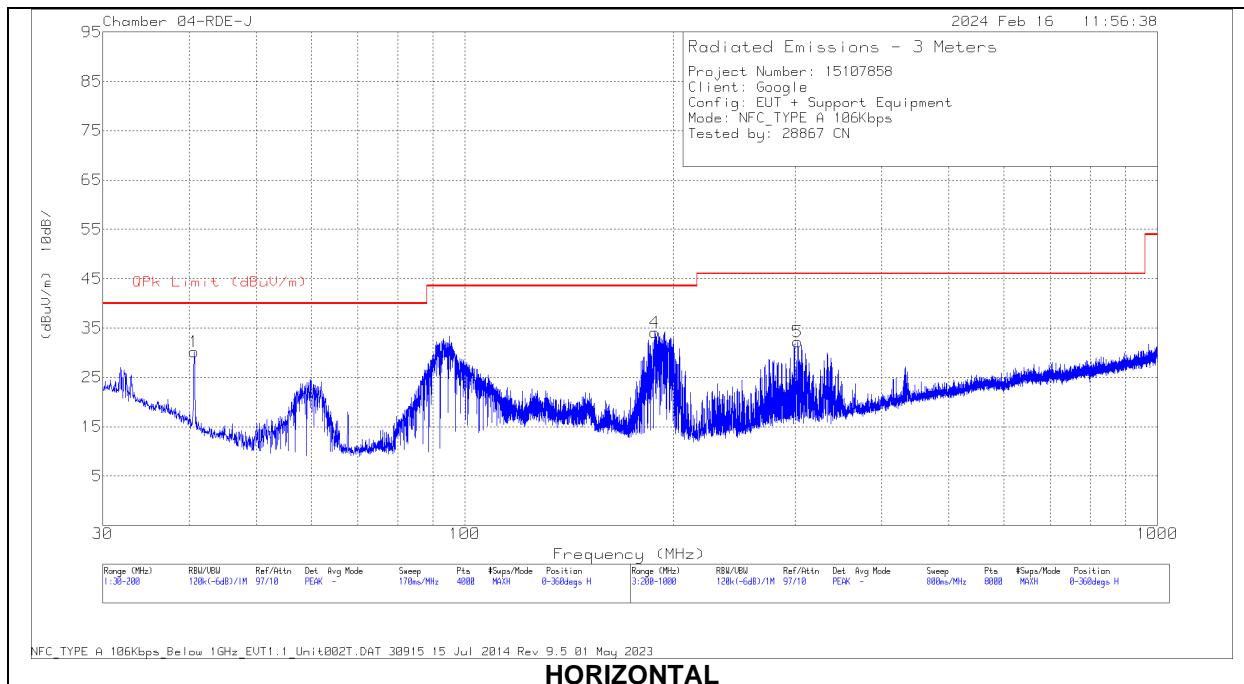
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna E(ACF) (dB/m)	CBL/AMP (dB)	Dist Corr 300m (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna orientation
1	.0119	16.94	Pk	60.1	-30.4	-80	-33.36	66.05	-99.41	46.05	-79.41	0-360	Face on
2	.012	25.25	Pk	60.1	-30.4	-80	-25.05	66.02	-91.07	46.02	-71.07	0-360	Face off

Pk - Peak detector

Note 1: The Markers 3 and 4 are the fundamental Transmit signal. Please refer to 8.2 for Fundamental level.

8.4. SPURIOUS EMISSION 30-1000 MHz



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80293 ACF (dB/m)	CBL/AMP (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	40.6703	42.48	Pk	19.2	-31.5	30.18	40	-9.82	0-360	399	H
2	40.6816	50.06	Qp	19.2	-31.5	37.76	40	-2.24	107	106	V
4	188.183	47.37	Pk	17.1	-30.4	34.07	43.52	-9.45	0-360	99	H
3	188.779	44.27	Pk	17.1	-30.6	30.77	43.52	-12.75	0-360	100	V
5	302.313	42.85	Pk	19.4	-30	32.25	46.02	-13.77	0-360	99	H
6	435.831	36.12	Pk	22.5	-29.7	28.92	46.02	-17.1	0-360	101	V

Pk - Peak detector

Qp - Quasi-Peak detector

9. FREQUENCY STABILITY

LIMIT

§15.225 (e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency, over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

TEST PROCEDURE

ANSI C63.10-2013 Clause 6.8

RESULTS

No non-compliance noted.

ID:	45256 JB	Date:	2024-03-06
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Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply (Vdc)	Envir. Temp (°C)	Frequency Deviation Measured with Time Elapse								
		Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.89	50	13.5599792	0.692	13.5599779	0.783	13.5599771	0.846	13.5599758	0.941	± 100
3.89	40	13.5599755	0.965	13.5599754	0.971	13.5599737	1.098	13.5599729	1.155	± 100
3.89	30	13.5599723	1.196	13.5599714	1.263	13.5599721	1.215	13.5599715	1.257	± 100
3.89	20	13.5599886	0.000	13.5599860	0.192	13.5599832	0.393	13.5599803	0.612	± 100
3.89	10	13.5599713	1.276	13.5599701	1.361	13.5599701	1.363	13.5599700	1.367	± 100
3.89	0	13.5599695	1.409	13.5599689	1.448	13.5599691	1.438	13.5599711	1.291	± 100
3.89	-10	13.5599704	1.337	13.5599706	1.326	13.5599700	1.368	13.5599707	1.318	± 100
3.89	-20	13.5599699	1.377	13.5599707	1.320	13.5599711	1.289	13.5599704	1.338	± 100
3.31	20	13.5600065	-1.323	13.5600084	-1.463	13.5600095	-1.544	13.5600110	-1.654	± 100
4.47	20	13.5600101	-1.585	13.5600075	-1.400	13.5600067	-1.340	13.5600047	-1.190	± 100

10. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Notes:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

TEST PROCEDURE

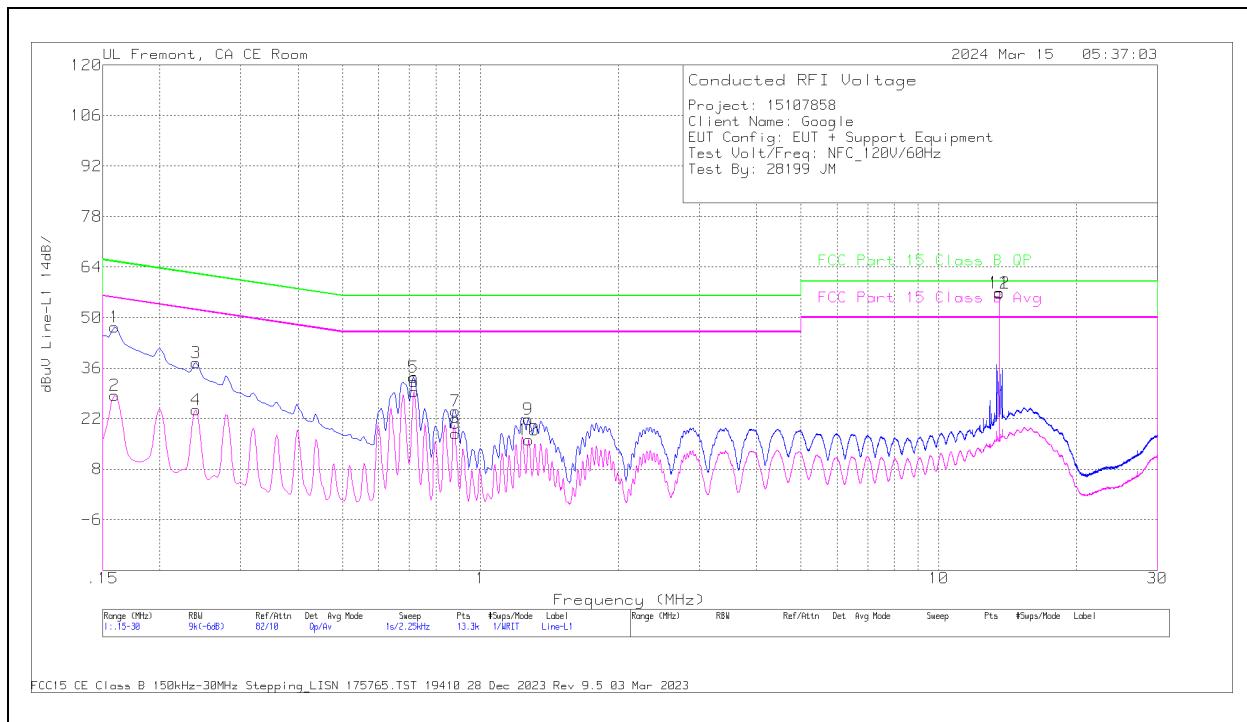
ANSI C63.10:2013

RESULTS

No non-compliance noted:

10.1. NFC NON-TERMINATED

LINE 1 RESULTS



DATA

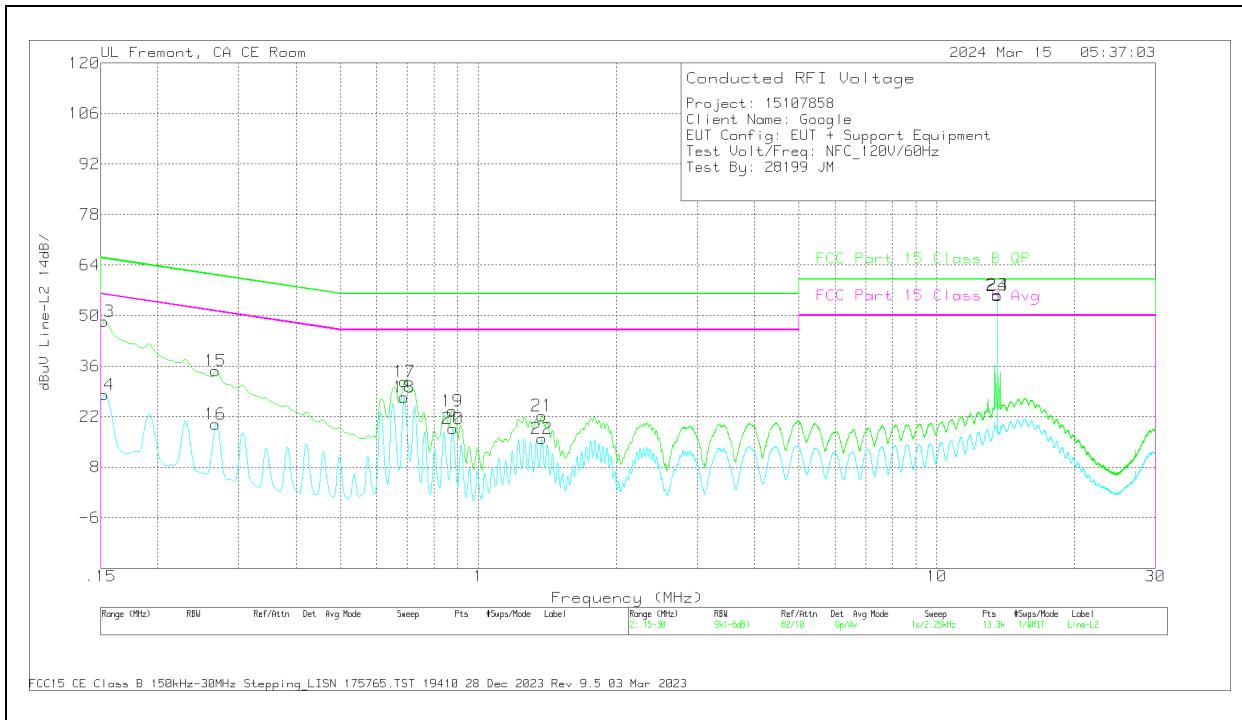
Range 1: Line-L1 1.15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	Corrected Reading dBuV	FCC Part 15C QP Limit (dBuV)	QP Margin (dB)	FCC Part 15C Avg Limit (dBuV)	Av Margin (dB)	
2	.159	19.01	Av	0	0	9.5	28.51	-	-	55.52	-27.01	
4	.24	15.08	Av	0	0	9.4	24.48	-	-	52.1	-27.62	
6	.717	20.16	Av	0	.1	9.3	29.56	-	-	46	-16.44	
8	.8813	8.32	Av	0	.1	9.4	17.82	-	-	46	-28.18	
10	1.275	6.78	Av	0	0	9.4	16.18	-	-	46	-29.82	
*12	13.56	46.95	Av	.1	.3	9.5	56.85	-	-	-	-	
1	.159	37.95	Qp	0	0	9.5	47.45	65.52	-18.07	-	-	
3	.24	28.15	Qp	0	0	9.4	37.55	62.1	-24.55	-	-	
5	.7148	24.09	Qp	0	.1	9.3	33.49	56	-22.51	-	-	
7	.8813	14.59	Qp	0	.1	9.4	24.09	56	-31.91	-	-	
9	1.2728	12.41	Qp	0	0	9.4	21.81	56	-34.19	-	-	
*11	13.56	47.07	Qp	.1	.3	9.5	56.97	-	-	-	-	

Qp - Quasi-Peak detector

Av - Average detection

*markers 11, 12 signal is NFC transmit frequency.

LINE 2 RESULTS



DATA

Range 2: Line-L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	Corrected Reading dBuV	FCC Part 15C QP Limit (dBuV)	QP Margin (dB)	FCC Part 15C Avg Limit (dBuV)	Av Margin (dB)	
14	.1523	18.67	Av	0	0	9.5	28.17	-	-	55.88	-27.71	
16	.267	10.58	Av	0	0	9.4	19.98	-	-	51.21	-31.23	
18	.6878	18.14	Av	0	0	9.3	27.44	-	-	46	-18.56	
20	.879	9.34	Av	0	0	9.4	18.74	-	-	46	-27.26	
22	1.3763	6.44	Av	0	.1	9.4	15.94	-	-	46	-30.06	
*24	13.56	45.81	Av	.1	.2	9.5	55.61	-	-	-	-	
13	.1523	38.94	Qp	0	0	9.5	48.44	65.88	-17.44	-	-	
15	.267	25.23	Qp	0	0	9.4	34.63	61.21	-26.58	-	-	
17	.69	22.4	Qp	0	0	9.3	31.7	56	-24.3	-	-	
19	.8768	14.24	Qp	0	0	9.4	23.64	56	-32.36	-	-	
21	1.3751	12.77	Qp	0	.1	9.4	22.27	56	-33.73	-	-	
*23	13.56	45.99	Qp	.1	.2	9.5	55.79	-	-	-	-	

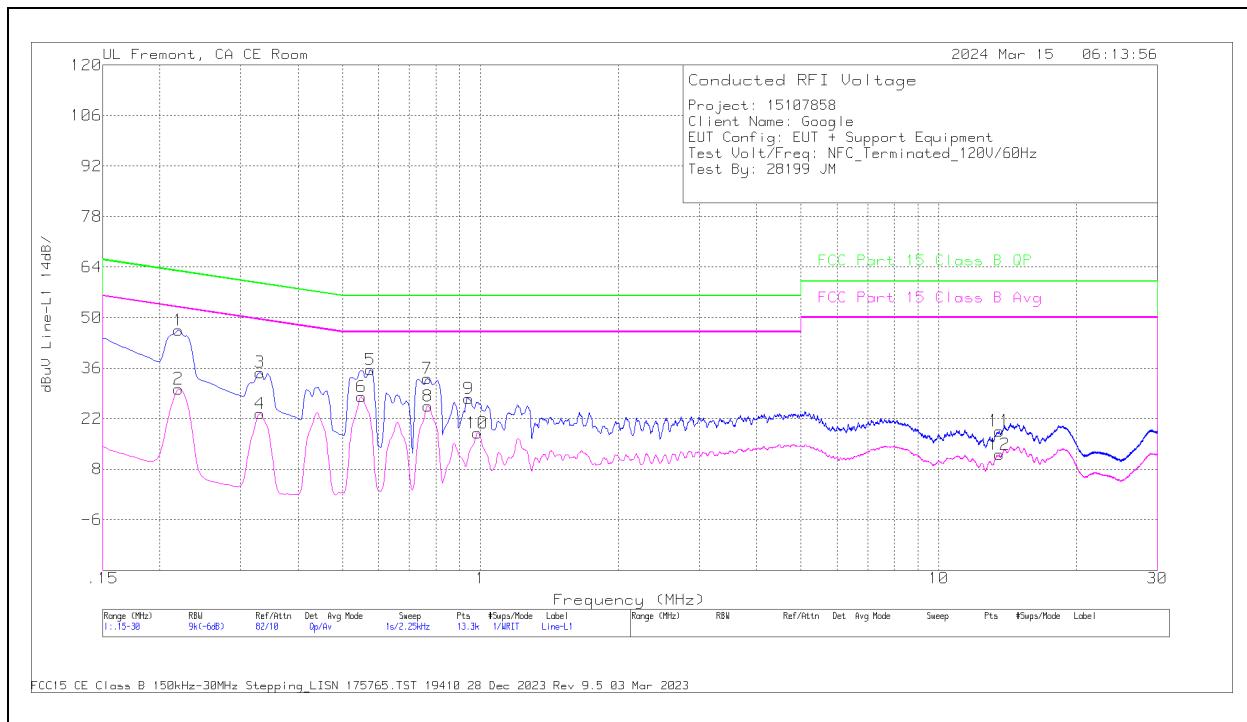
Qp - Quasi-Peak detector

Av - Average detection

*markers 23, 24 signal is NFC transmit frequency.

10.2. NFC TERMINATED

LINE 1 RESULTS



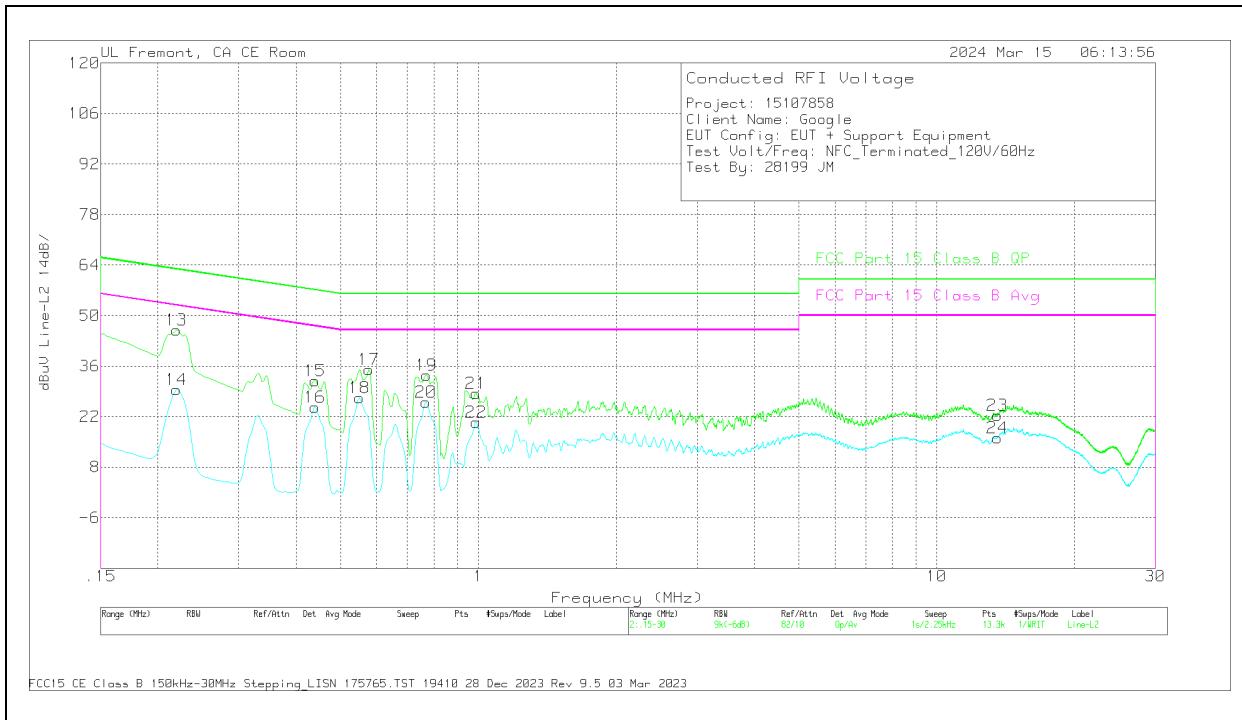
DATA

Range 1: Line-L1 15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	Corrected Reading (dBuV)	FCC Part 15C QP Limit (dBuV)	QP Margin (dB)	FCC Part 15C Avg Limit (dBuV)	Av Margin (dB)	
2	.2198	20.77	Av	0	.1	9.4	30.27	-	-	52.83	-22.56	
4	.33	13.96	Av	0	0	9.4	23.36	-	-	49.45	-26.09	
6	.5505	18.65	Av	0	.1	9.3	28.05	-	-	46	-17.95	
8	.7688	15.96	Av	0	.1	9.4	25.46	-	-	46	-20.54	
10	.9859	8.63	Av	0	0	9.4	18.03	-	-	46	-27.97	
12	13.56	2.21	Av	.1	.3	9.5	12.11	-	-	50	-37.89	
1	.2198	37	Qp	0	.1	9.4	46.5	62.83	-16.33	-	-	
3	.33	25.39	Qp	0	0	9.4	34.79	59.45	-24.66	-	-	
5	.5753	26.12	Qp	0	0	9.4	35.52	56	-20.48	-	-	
7	.7665	23.66	Qp	0	.1	9.4	33.16	56	-22.84	-	-	
9	.942	18.16	Qp	0	.1	9.3	27.56	56	-28.44	-	-	
11	13.56	8.72	Qp	.1	.3	9.5	18.62	60	-41.38	-	-	

Qp - Quasi-Peak detector

Av - Average detection

LINE 2 RESULTS



DATA

Range 2: Line-L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN (dB)	Cbl (dB)	Trns Limiter (dB)	Corrected Reading dBuV	FCC Part 15C QP Limit (dBuV)	QP Margin (dB)	FCC Part 15C Avg Limit (dBuV)	Av Margin (dB)	
14	.2198	19.97	Av	0	.1	9.4	29.47	-	-	52.83	-23.36	
16	.4403	15.28	Av	0	0	9.3	24.58	-	-	47.06	-22.48	
18	.5505	17.87	Av	0	0	9.3	27.17	-	-	46	-18.83	
20	.7688	16.58	Av	0	0	9.4	25.98	-	-	46	-20.02	
22	.987	11.1	Av	0	0	9.4	20.5	-	-	46	-25.5	
24	13.56	6.37	Av	.1	.2	9.5	16.17	-	-	50	-33.83	
13	.2198	36.5	Qp	0	.1	9.4	46	62.83	-16.83	-	-	
15	.4403	22.68	Qp	0	0	9.3	31.98	57.06	-25.08	-	-	
17	.5775	25.56	Qp	0	.1	9.4	35.06	56	-20.94	-	-	
19	.771	24.15	Qp	0	0	9.4	33.55	56	-22.45	-	-	
21	.9893	18.98	Qp	0	0	9.4	28.38	56	-27.62	-	-	
23	13.56	12.49	Qp	.1	.2	9.5	22.29	60	-37.71	-	-	

Qp - Quasi-Peak detector

Av - Average detection

11. DESCRIPTION OF TEST SETUP AND SETUP PHOTOS

Please refer to 15107858-EP1 for description of test up and setup photo.

END OF TEST REPORT