



CERTIFICATION TEST REPORT

Report Number: R13057024-E1

Applicant : Elinta Charge, UAB
Terminalo g. 3, Biruliškių k.
LT-54469 Kauno r.

Model : CC-V2-22-COM

FCC ID : 2AVJZ-CCV222COM

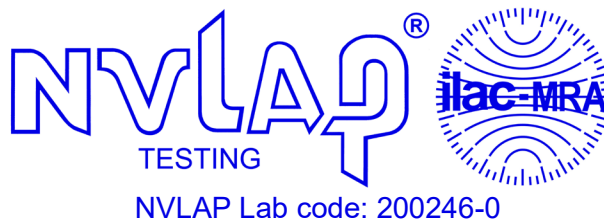
IC : 25774-CCV222COM

EUT Description : Electric vehicle charging station

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED CANADA RSS-210 ISSUE 10

Date Of Issue:
2020-03-31

Prepared by:
UL LLC
12 Laboratory Dr.
Research Triangle Park, NC 27709 U.S.A.
TEL: (919) 549-1400



REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
1	2020-03-31	Initial Revision	Brian T. Kiewra

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Elinta Charge, UAB
Terminalo g. 3, Biruliškių k.
LT-54469 Kauno r.

EUT DESCRIPTION: Electric vehicle charging station

MODEL: CC-V2-22-COM

SERIAL NUMBER: 19v2-17-08

DATE TESTED: 2019-12-12 to 2020-03-30

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Complies
ISED RSS-210 Issue 10, Annex B.6	Complies
ISED RSS-GEN Issue 5	Complies

UL LLC 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 LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. government.

Approved & Released
For UL LLC By:



Jeffrey Moser
Operations Manager
Consumer Technology Division
UL LLC

Prepared By:



Brian T. Kiewra
Project Engineer
Consumer Technology Division
UL LLC

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15, KDB 174176 D01 Line Conducted FAQ v01r01, RSS-GEN Issue 5, and RSS-210 Issue 10.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 12 Laboratory Drive, Research Triangle Park, NC 27709, USA and 2800 Perimeter Park Dr., Suite B, Morrisville, NC 27560, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

12 Laboratory Dr.	2800 Perimeter Park Dr.
☐ Chamber A RTP	☒ North Chamber
☐ Chamber C RTP	☒ South Chamber

UL LLC (RTP) is accredited by NVLAP, Laboratory Code 200246-0

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. 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)
 $36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

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.
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Worst Case Conducted Disturbance	$\pm 3.07 \text{ dB}$
Worst Case Radiated Disturbance	$\pm 4.88 \text{ dB}$

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT, Model CC-V2-22-COM is an Electric vehicle charging station with an RFID radio.

The EUT operates under ISO14443A only.

5.2. MAXIMUM ELECTRIC FIELD STRENGTH

The transmitter has a maximum peak radiated magnetic field strength as follows:

Frequency Range (MHz)	Mode	E Field at 30m distance (dBuV/m)
13.56	Without Tag	18.25
	With Tag	18.36

5.3. SOFTWARE AND FIRMWARE

The firmware installed during testing was CC Bootloader [CHIP v55, SOFT v62] and CC Firmware [CHIP v55, SOFT v63].

5.4. WORST-CASE CONFIGURATION AND MODE

The EUT is only intended to be installed and operated in one orientation. Therefore all radiated testing performed with the EUT installed in the intended orientation.

Although these tests were performed other than open area field site, adequate comparison measurements were confirmed against 30 m open area field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
EVSE Adapter	Metrel	A 1532	NA	NA

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Mains	1	Hardwired	3 Wire	<3m	Provides AC mains
2	EV Charging Port	2	EV Charger	3 Wire	<3m	Connected to EVSE adapter

TEST SETUP

The EUT is setup as a standalone device.

SETUP DIAGRAM FOR TESTS

Please refer to R13057024-EP1 for setup photos

6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville - North Chamber)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
0.009-30MHz (Loop Ant.)					
AT0079	Active Loop Antenna	ETS-Lindgren	6502	2019-08-08	2020-08-08
Gain-Loss Chains					
N-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2019-05-02	2020-05-02
Receiver & Software					
SA0026	Spectrum Analyzer	Agilent	N9030A	2019-03-19	2020-03-19
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
Additional Equipment used					
s/n 181474341	Environmental Meter	Fisher Scientific	15-077-963	2018-07-27	2020-07-27
PS215	AC Power Source	Elgar	CW2501M (s/n 1523A02397)	NA	NA

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville - South Chamber)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
30-1000 MHz					
AT0074	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2019-07-16	2020-07-16
Gain-Loss Chains					
S-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2019-05-02	2020-05-02
Receiver & Software					
SA0025	Spectrum Analyzer	Agilent	N9030A	2019-02-28	2020-02-28
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
Additional Equipment used					
s/n 181474409	Environmental Meter	Fisher Scientific	15-077-963	2018-07-27	2020-07-27
PS215	AC Power Source	Elgar	CW2501M (s/n 1523A02397)	NA	NA

Test Equipment Used - Conducted Disturbance Emissions – Voltage

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
Equipment – Ground Plane E					
85496	EMI Test Receiver 9kHz-3.6GHz	Rohde & Schwarz	ESR3	2019-08-20	2020-08-20
ATA011	Coaxial cable, 20 ft., BNC -male to BNC-male	UL	RG-223	2019-07-01	2020-07-01
HI0085	Temp/Humid/Pressure Meter	Extech	SD700	2019-04-08	2020-04-08
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
Transient Limiter					
ATA222	Transient Limiter, 0.009 to 100 MHz	Electro-Metrics	EM-7600	2019-07-01	2020-07-01
LISN (FCC & CISPR testing)					
LISN002	LISN, 50-ohm/50-uH, 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50-25-2-01-550V	2019-08-20	2020-08-20

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
T177 (PRE0079253)	Spectrum Analyzer	Agilent Technologies	E4446A	2019-04-22	2020-04-22
EC0226	Environmental Chamber	Thermotron	WP-867-THCM3	2019-10-01	2020-10-01
MM0150	MultiMeter	Agilent	U1252A	2019-10-31	2020-10-31
SOFTEMI	EMC Software	UL	Version 2019.11.13		

7. OCCUPIED BANDWIDTH

LIMITS

None; for reporting purposes only.

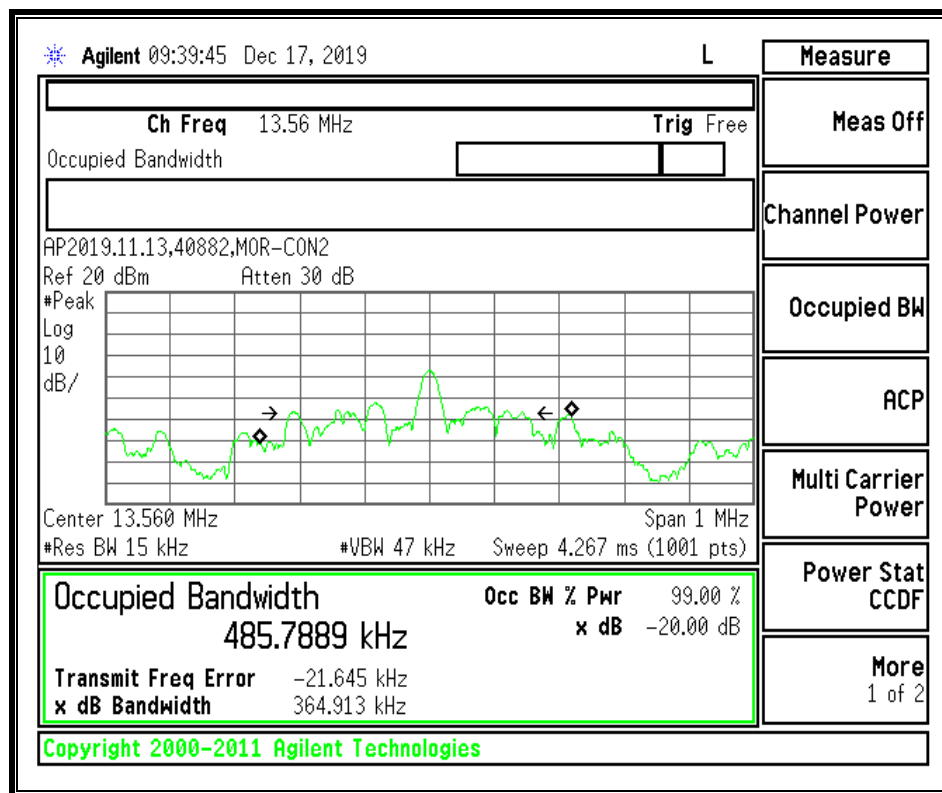
TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1-5% of OBW. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

99% AND 20dB BW

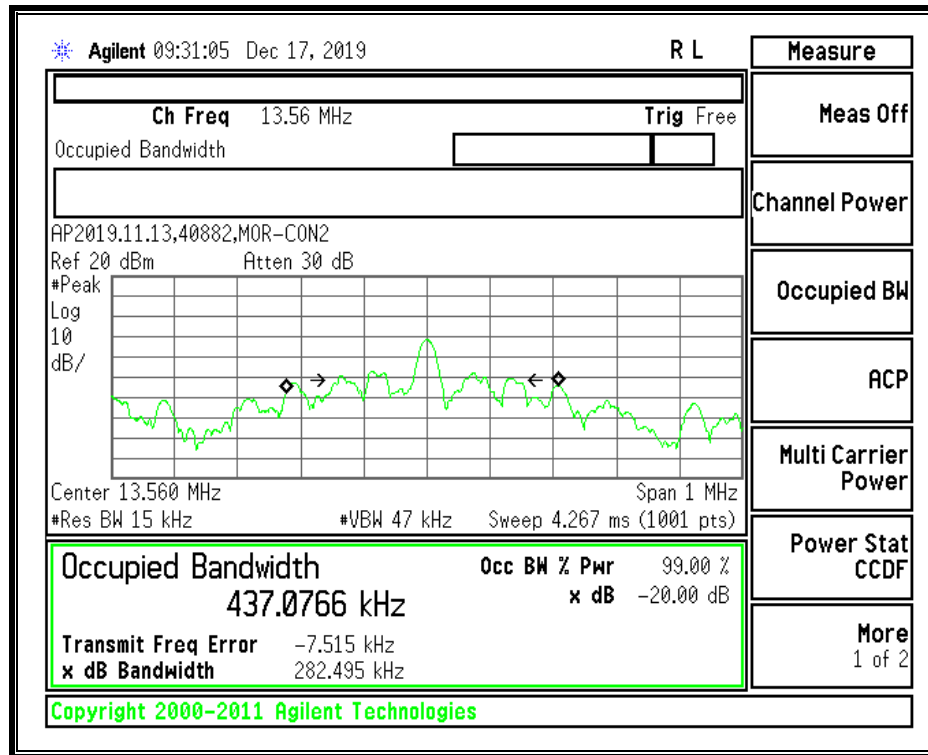
WITHOUT TAG

Frequency (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
13.56	485.7889	364.913



WITH TAG

Frequency (MHz)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
13.56	437.0766	282.495



8. RADIATED EMISSION TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMIT

§15.225

IC RSS-210, Annex B.6

IC RSS-GEN, Section 8.9 (Transmitter)

(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 (µV/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 field strength from uV/m to dBuV/m is:

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

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

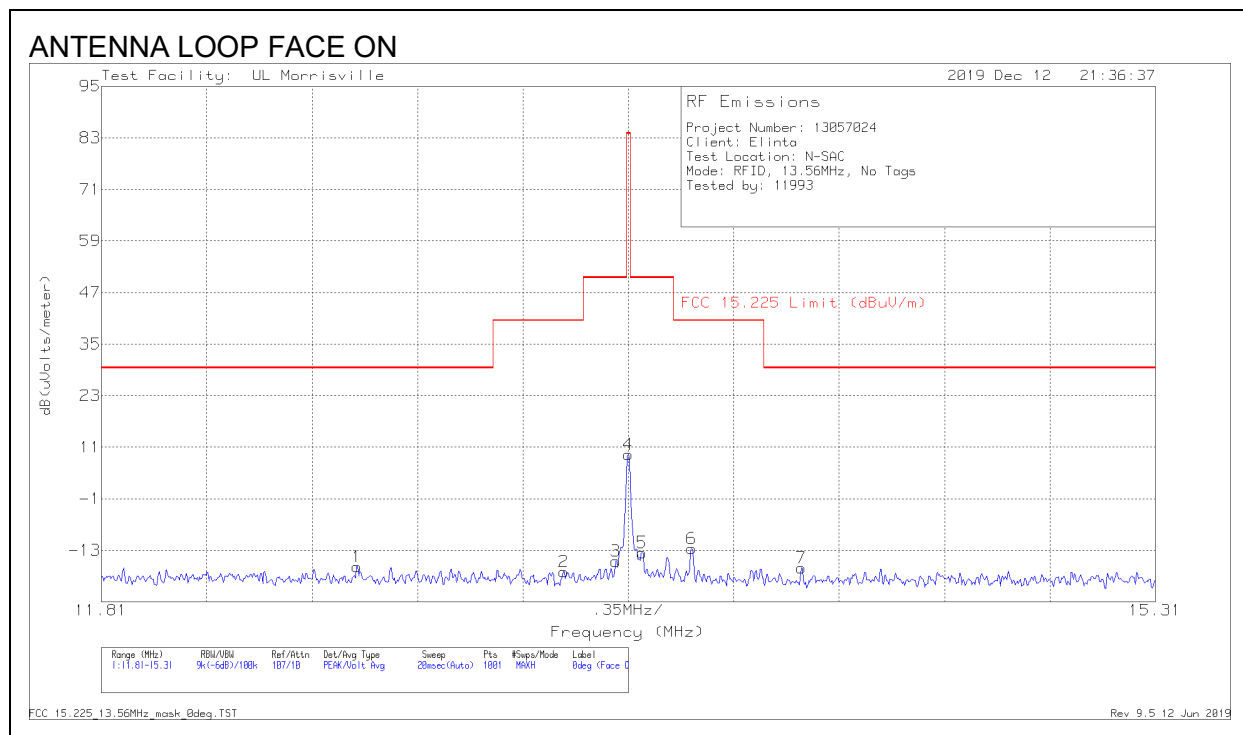
ANSI C63.10, 2013

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.

8.2. FUNDAMENTAL AND SPURIOUS EMISSIONS (0.15 - 30 MHz)

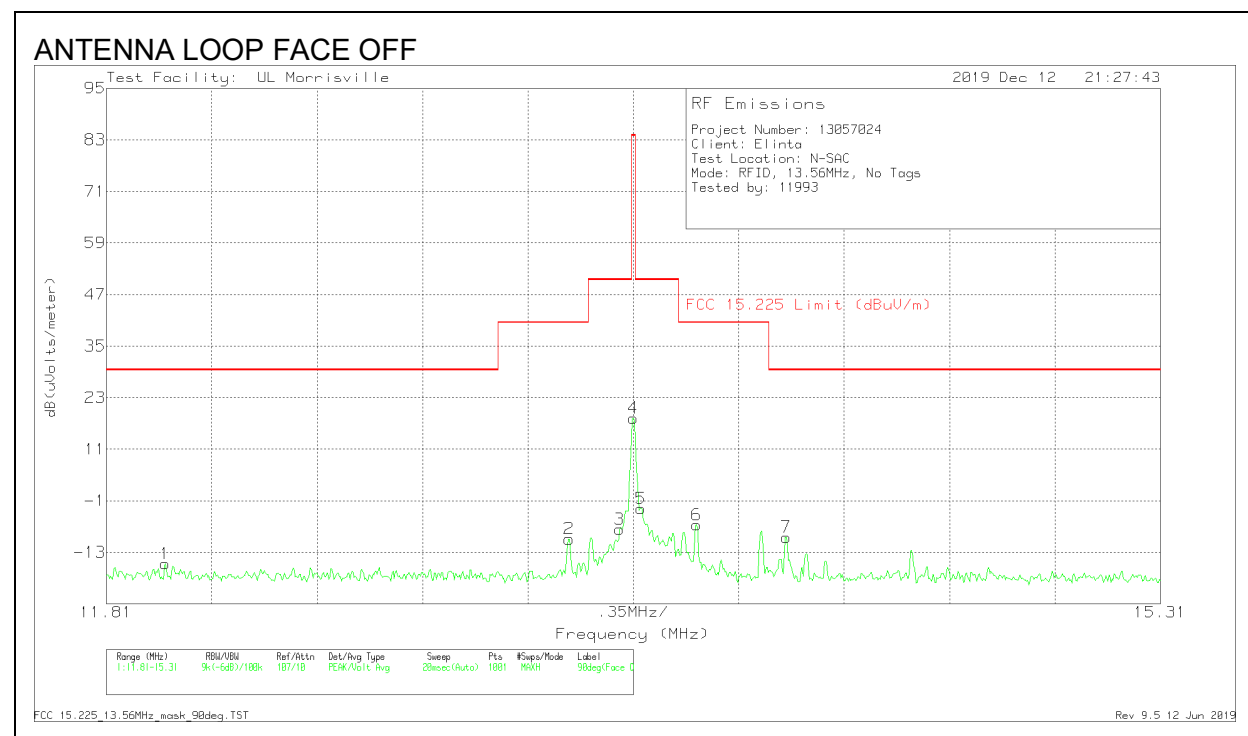
8.2.1. WITHOUT TAG

FUNDAMENTAL



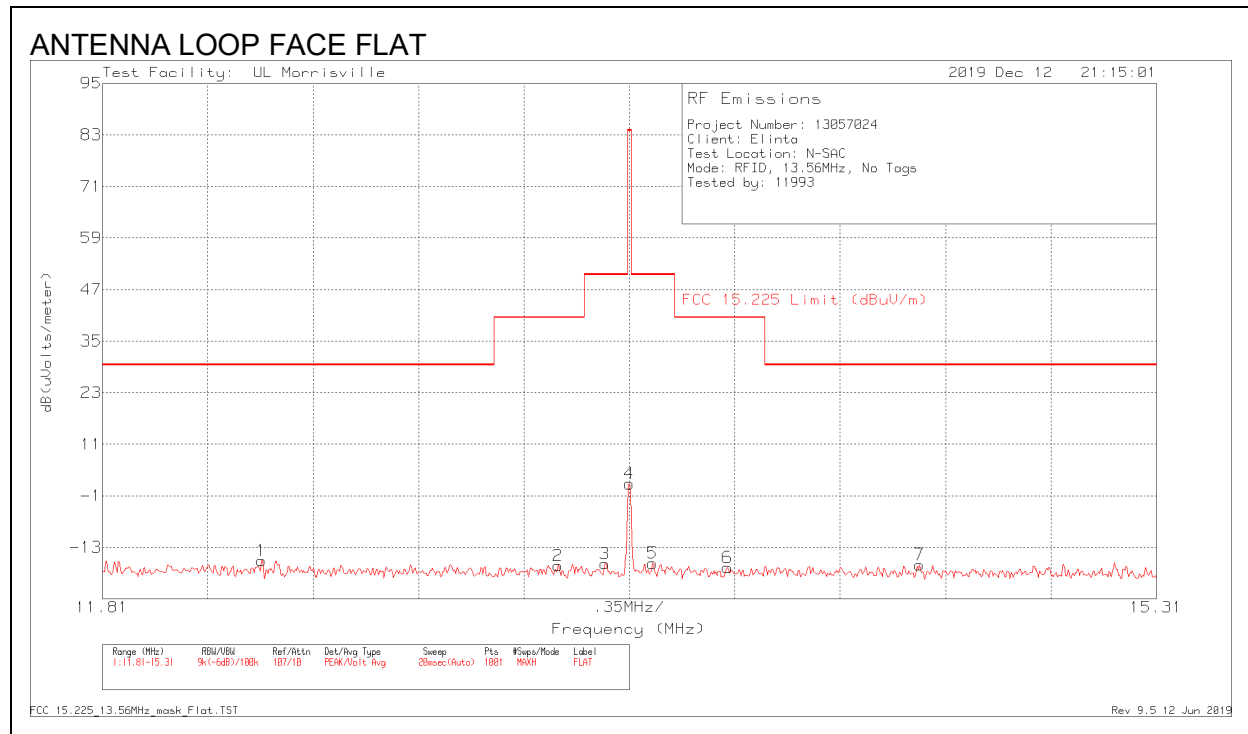
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 AF (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	12.65875	12.6	Pk	10	.6	-40	-16.8	29.5	-46.3	189
2	13.34475	11.42	Pk	10	.6	-40	-17.98	40.5	-58.48	189
3	13.518	13.84	Pk	10	.6	-40	-15.56	50.5	-66.06	189
4	13.56	38.73	Pk	10	.6	-40	9.33	84	-74.67	189
5	13.6055	15.94	Pk	9.9	.6	-40	-13.56	50.5	-64.06	189
6	13.77	16.88	Pk	9.9	.6	-40	-12.62	40.5	-53.12	189
7	14.134	12.35	Pk	9.9	.6	-40	-17.15	29.5	-46.65	189

Pk - Peak detector



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 AF (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	12.006	13.65	Pk	10.1	.6	-40	-15.65	29.5	-45.15	111
2	13.3465	19.52	Pk	10	.6	-40	-9.88	40.5	-50.38	111
3	13.5145	21.73	Pk	10	.6	-40	-7.67	50.5	-58.17	111
4	13.56	47.65	Pk	10	.6	-40	18.25	84	-65.75	111
5	13.5845	26.55	Pk	10	.6	-40	-2.85	50.5	-53.35	111
6	13.77	22.92	Pk	9.9	.6	-40	-6.58	40.5	-47.08	111
7	14.0675	20.02	Pk	9.9	.6	-40	-9.48	29.5	-38.98	111

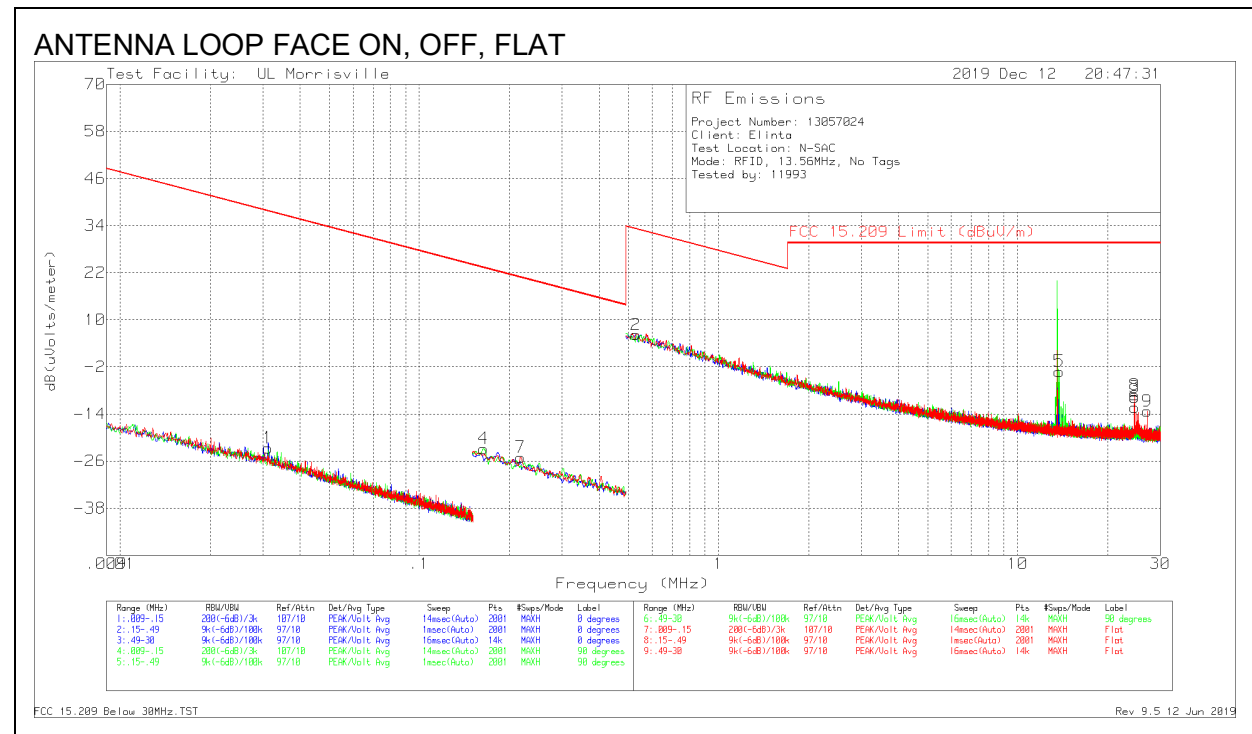
Pk - Peak detector



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 AF (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	12.3385	13.22	Pk	10.1	.6	-40	-16.08	29.5	-45.58	26
2	13.322	12.18	Pk	10	.6	-40	-17.22	40.5	-57.72	26
3	13.4795	12.6	Pk	10	.6	-40	-16.8	50.5	-67.3	26
4	13.56	31.2	Pk	10	.6	-40	1.8	84	-82.2	26
5	13.637	12.77	Pk	9.9	.6	-40	-16.73	50.5	-67.23	26
6	13.8855	11.79	Pk	9.9	.6	-40	-17.71	40.5	-58.21	26
7	14.5225	12.45	Pk	9.9	.6	-40	-17.05	29.5	-46.55	26

Pk - Peak detector

SPURIOUS EMISSION

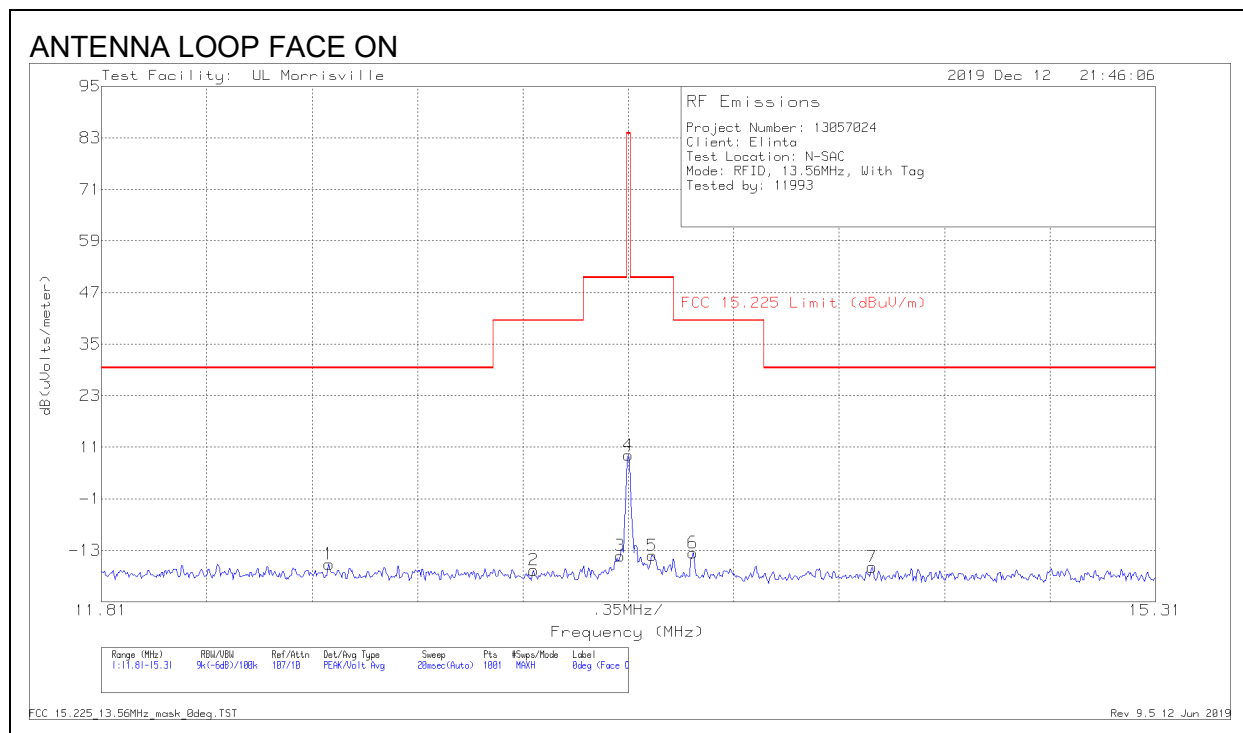


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 AF (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uV/m)	FCC 15.209 QP/AV Limit (dBuV/m)	FCC 15.209 PK Limit (dBuV/m)	Worst-Case Margin (dB)	Azimuth (Degs)
1	.03115	44.15	Pk	13.1	.1	-80	-22.65	37.73	57.73	-60.38	0-360
4	.1642	46.1	Pk	11	.1	-80	-22.8	23.3	43.3	-46.1	0-360
7	.21826	43.84	Pk	11	.1	-80	-25.06	20.82	40.82	-45.88	0-360
2	.53005	35.14	Pk	11	.1	-40	6.24	33.12	-	-26.88	0-360
5	13.7704	26.35	Pk	9.9	.6	-40	-3.15	29.54	-	-32.69	0-360
6	24.57812	18.05	Pk	8.9	.8	-40	-12.25	29.54	-	-41.79	0-360
8	24.58022	21.21	Pk	8.9	.8	-40	-9.09	29.54	-	-38.63	0-360
3	24.58866	20.59	Pk	8.9	.8	-40	-9.71	29.54	-	-39.25	0-360
9	27.12458	17.32	Pk	8.5	.9	-40	-13.28	29.54	-	-42.82	0-360

Pk - Peak detector

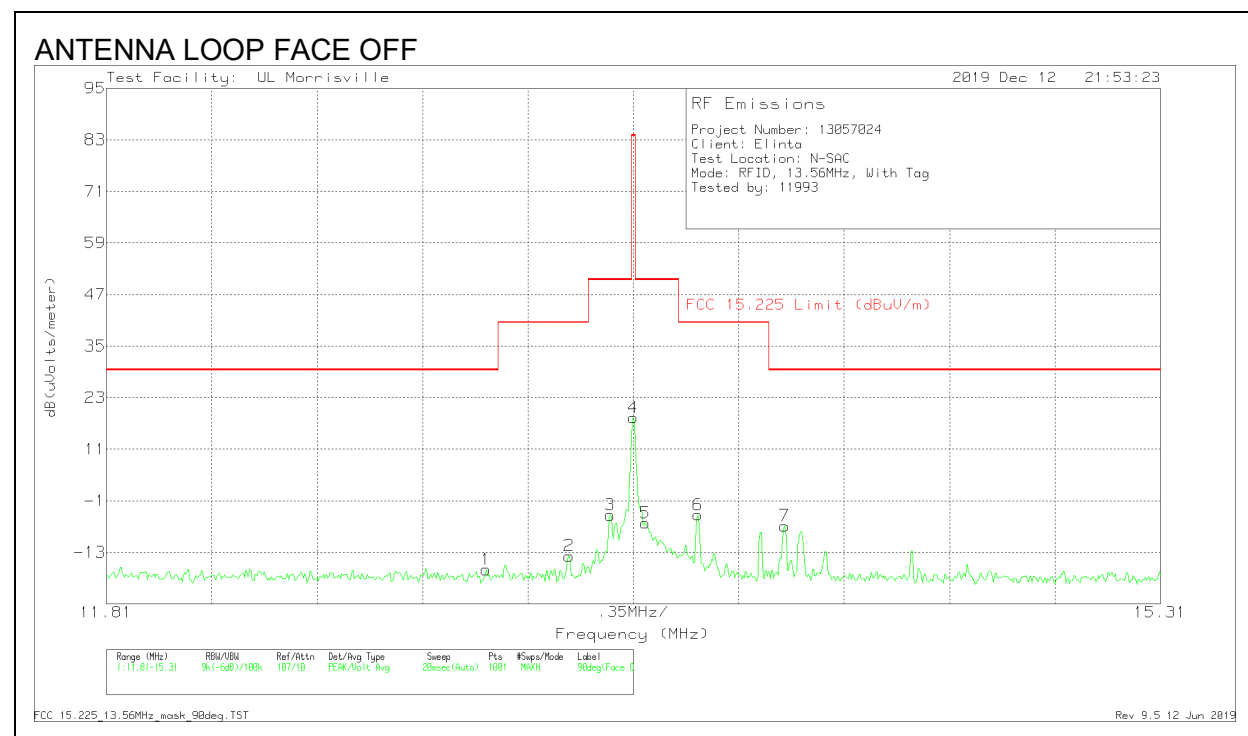
8.2.2. WITH TAG

FUNDAMENTAL



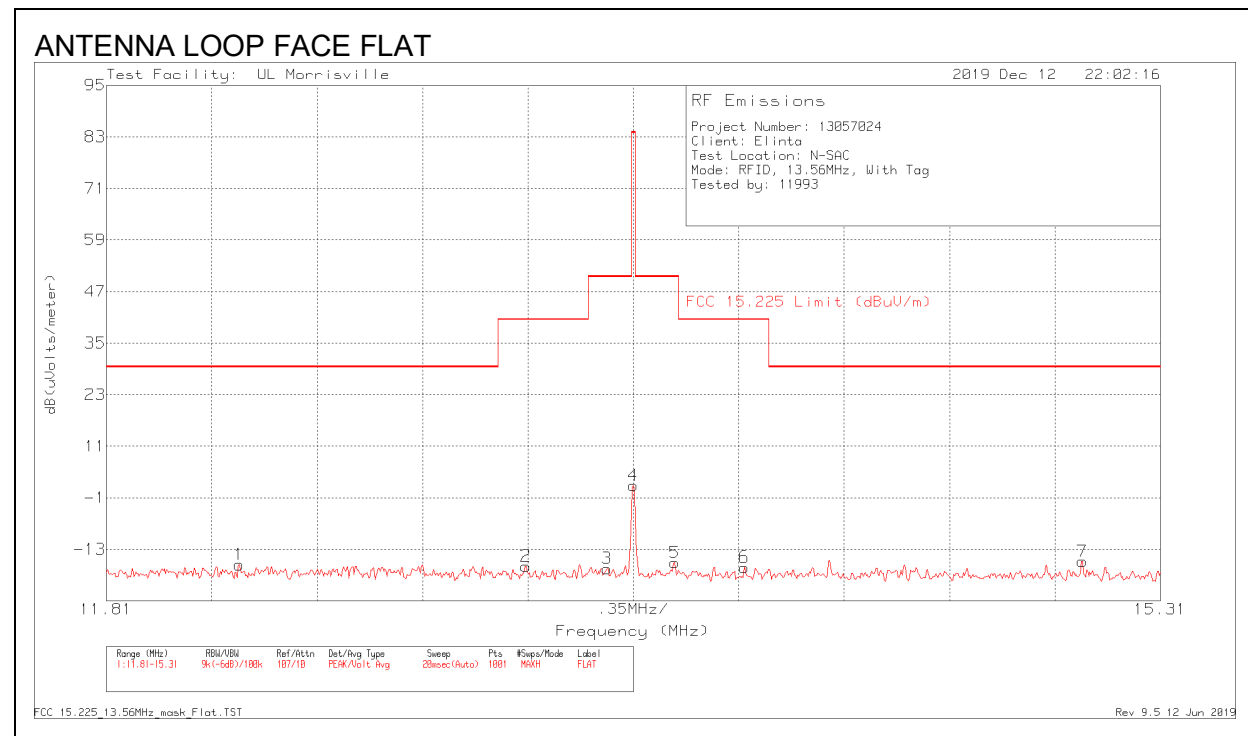
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 AF (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	12.566	13.13	Pk	10.1	.6	-40	-16.17	29.5	-45.67	199
2	13.245	11.79	Pk	10	.6	-40	-17.61	40.5	-58.11	199
3	13.532	15.14	Pk	10	.6	-40	-14.26	50.5	-64.76	199
4	13.56	38.51	Pk	10	.6	-40	9.11	84	-74.89	199
5	13.63875	15.33	Pk	9.9	.6	-40	-14.17	50.5	-64.67	199
6	13.7735	15.93	Pk	9.9	.6	-40	-13.57	40.5	-54.07	199
7	14.3685	12.63	Pk	9.9	.6	-40	-16.87	29.5	-46.37	199

Pk - Peak detector



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 AF (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	13.07	12.38	Pk	10	.6	-40	-17.02	29.5	-46.52	111
2	13.3465	15.58	Pk	10	.6	-40	-13.82	40.5	-54.32	111
3	13.483	25.08	Pk	10	.6	-40	-4.32	50.5	-54.82	111
4	13.56	47.76	Pk	10	.6	-40	18.36	84	-65.64	111
5	13.5985	23.26	Pk	10	.6	-40	-6.14	50.5	-56.64	111
6	13.7735	25.22	Pk	9.9	.6	-40	-4.28	40.5	-44.78	111
7	14.06225	22.66	Pk	9.9	.6	-40	-6.84	29.5	-36.34	111

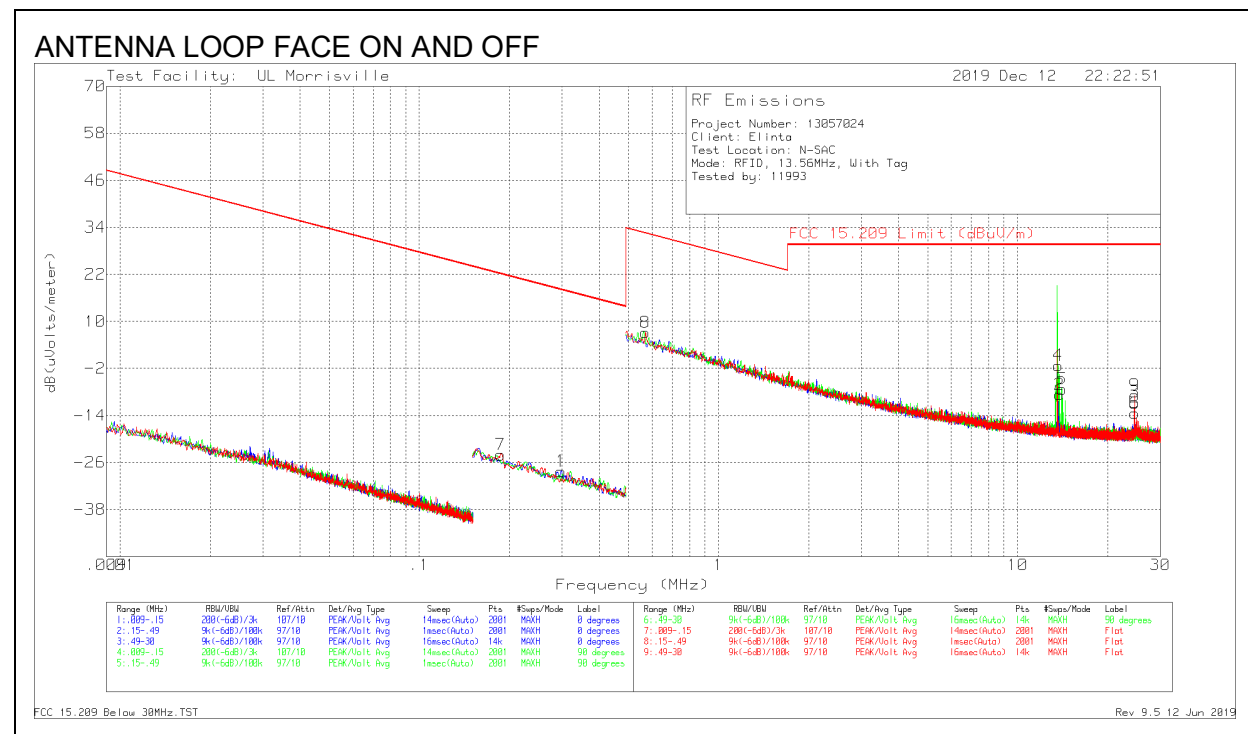
Pk - Peak detector



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 AF (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	12.251	12.72	Pk	10.1	.6	-40	-16.58	29.5	-46.08	23
2	13.203	12.5	Pk	10	.6	-40	-16.9	40.5	-57.4	23
3	13.4725	11.93	Pk	10	.6	-40	-17.47	50.5	-67.97	23
4	13.56	31.26	Pk	10	.6	-40	1.86	84	-82.14	23
5	13.6965	13.37	Pk	9.9	.6	-40	-16.13	50.5	-66.63	23
6	13.9275	12.31	Pk	9.9	.6	-40	-17.19	40.5	-57.69	23
7	15.051	13.68	Pk	9.8	.7	-40	-15.82	29.5	-45.32	23

Pk - Peak detector

SPURIOUS EMISSION



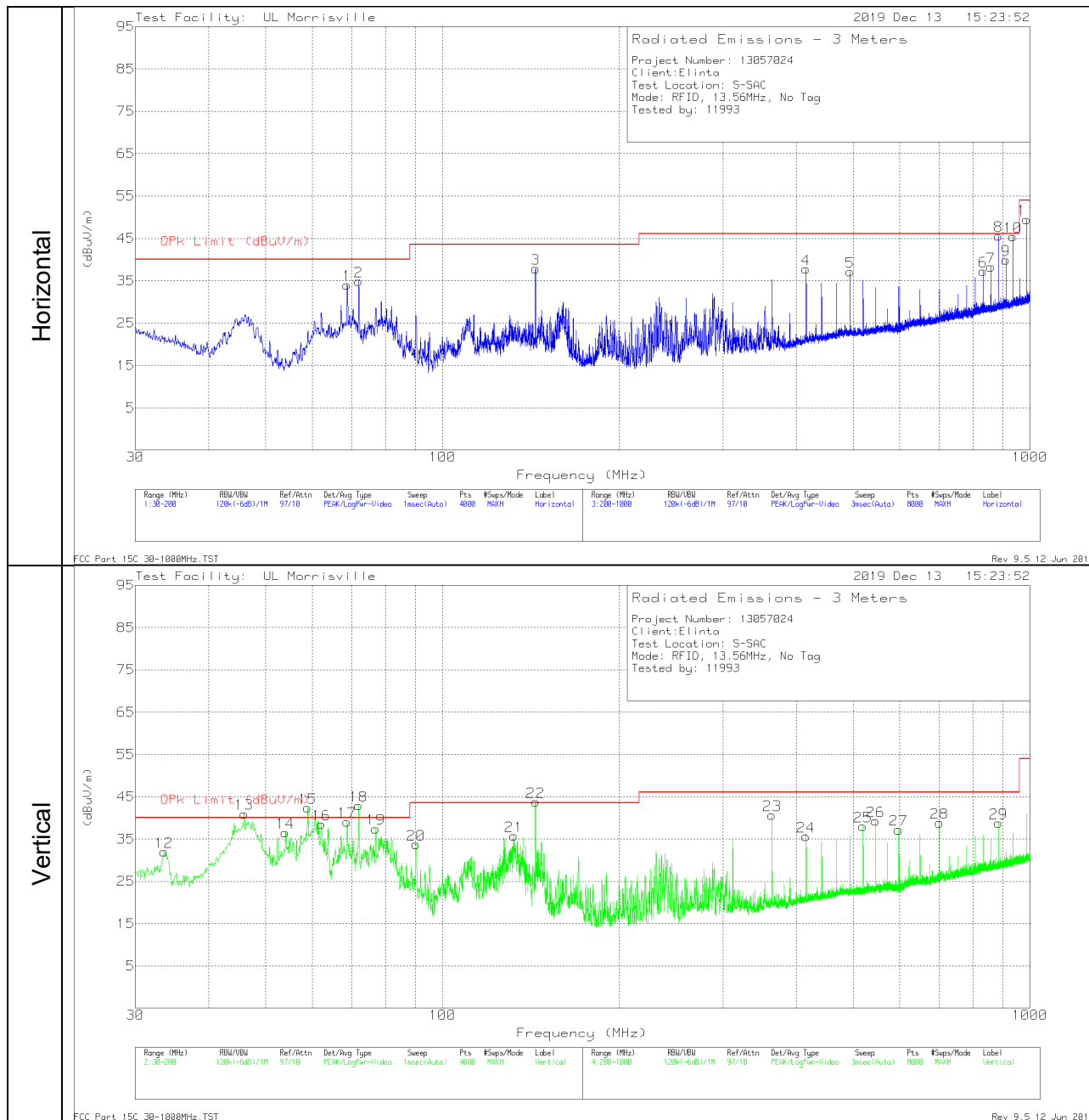
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 AF (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 QP/AV Limit (dBuV/m)	FCC 15.209 PK Limit (dBuV/m)	Worst-Case Margin (dB)	Azimuth (Degs)
7	.18672	44.86	Pk	11	.1	-80	-24.04	22.18	42.18	-46.22	0-360
1	.29756	40.66	Pk	11	.1	-80	-28.24	18.13	38.13	-46.37	0-360
8	.5701	36.01	Pk	11	.1	-40	7.11	32.48	-	-25.37	0-360
4	13.69135	28.27	Pk	9.9	.6	-40	-1.23	29.54	-	-30.77	0-360
2	13.77251	20.84	Pk	9.9	.6	-40	-8.66	29.54	-	-38.2	0-360
5	14.0613	22.23	Pk	9.9	.6	-40	-7.27	29.54	-	-36.81	0-360
6	24.57601	16.87	Pk	8.9	.8	-40	-13.43	29.54	-	-42.97	0-360
3	24.58022	19.68	Pk	8.9	.8	-40	-10.62	29.54	-	-40.16	0-360
9	24.59498	21.42	Pk	8.9	.8	-40	-8.88	29.54	-	-38.42	0-360

Pk - Peak detector

8.3. TX SPURIOUS EMISSION 30 TO 1000 MHz

8.3.1. WITHOUT TAG

SPURIOUS EMISSION



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0074 AF (dB/m)	Cbl/Amp	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	68.8322	50.37	Qp	14.1	-31.3	33.17	40	-6.83	310	239	H
2	71.9855	50.78	Qp	14.1	-31.2	33.68	40	-6.32	146	233	H
3	144.0116	48.87	Qp	18.9	-30.7	37.07	43.52	-6.45	324	174	H
4	416.0281	44.59	Pk	22.2	-29	37.79	46.02	-8.23	0-360	298	H
5	494.0382	42.21	Pk	23.8	-28.9	37.11	46.02	-8.91	0-360	198	H
6	831.9821	37.05	Pk	27.9	-27.7	37.25	46.02	-8.77	0-360	198	H
7	857.9855	37.87	Pk	27.9	-27.5	38.27	46.02	-7.75	0-360	102	H
8	883.9889	44.71	Pk	28.2	-27.3	45.61	46.02	-.41	0-360	102	H
29	883.9831	45.07	Qp	28.2	-27.3	45.97	46.02	-.05	9	110	H
9	909.9923	38.45	Pk	28.4	-26.9	39.95	46.02	-6.07	0-360	102	H
10	935.9871	43.51	Qp	28.7	-26.6	45.61	46.02	-.41	307	107	H
11	987.9933	45.99	Qp	29.3	-25.9	49.39	53.97	-4.58	321	101	H
12	33.5709	39.28	Pk	24.4	-31.7	31.98	40	-8.02	0-360	102	V
13	45.7938	49.19	Qp	15.8	-31.6	33.39	40	-6.61	234	102	V
14	54.0365	50.92	Qp	13.4	-31.5	32.82	40	-7.18	230	115	V
15	59.0321	55.87	Qp	13.5	-31.4	37.97	40	-2.03	350	107	V
16	62.3035	52.33	Qp	13.7	-31.4	34.63	40	-5.37	12	114	V
17	68.8144	53.54	Qp	14.1	-31.3	36.34	40	-3.66	226	112	V
18	72.0095	59.03	Qp	14.1	-31.2	41.93	40	1.93	232	105	V
19	77.0206	52.99	Qp	13.8	-31.3	35.49	40	-4.51	216	148	V
20	90.1531	51.18	Pk	13.7	-31.1	33.78	43.52	-9.74	0-360	102	V
21	132.3665	46.89	Pk	19.7	-30.8	35.79	43.52	-7.73	0-360	102	V
22	144.0135	55.17	Qp	18.9	-30.7	43.37	43.52	-.15	213	103	V
23	363.9939	48.64	Qp	21	-29.2	40.44	46.02	-5.58	273	103	V
24	415.9281	42.44	Pk	22.2	-29	35.64	46.02	-10.38	0-360	101	V
25	520.0416	43.04	Pk	23.8	-28.8	38.04	46.02	-7.98	0-360	199	V
26	545.945	43.85	Pk	24.2	-28.8	39.25	46.02	-6.77	0-360	199	V
27	597.9517	41.62	Pk	24.3	-28.7	37.22	46.02	-8.8	0-360	199	V
28	701.9652	41.06	Pk	26.3	-28.5	38.86	46.02	-7.16	0-360	101	V

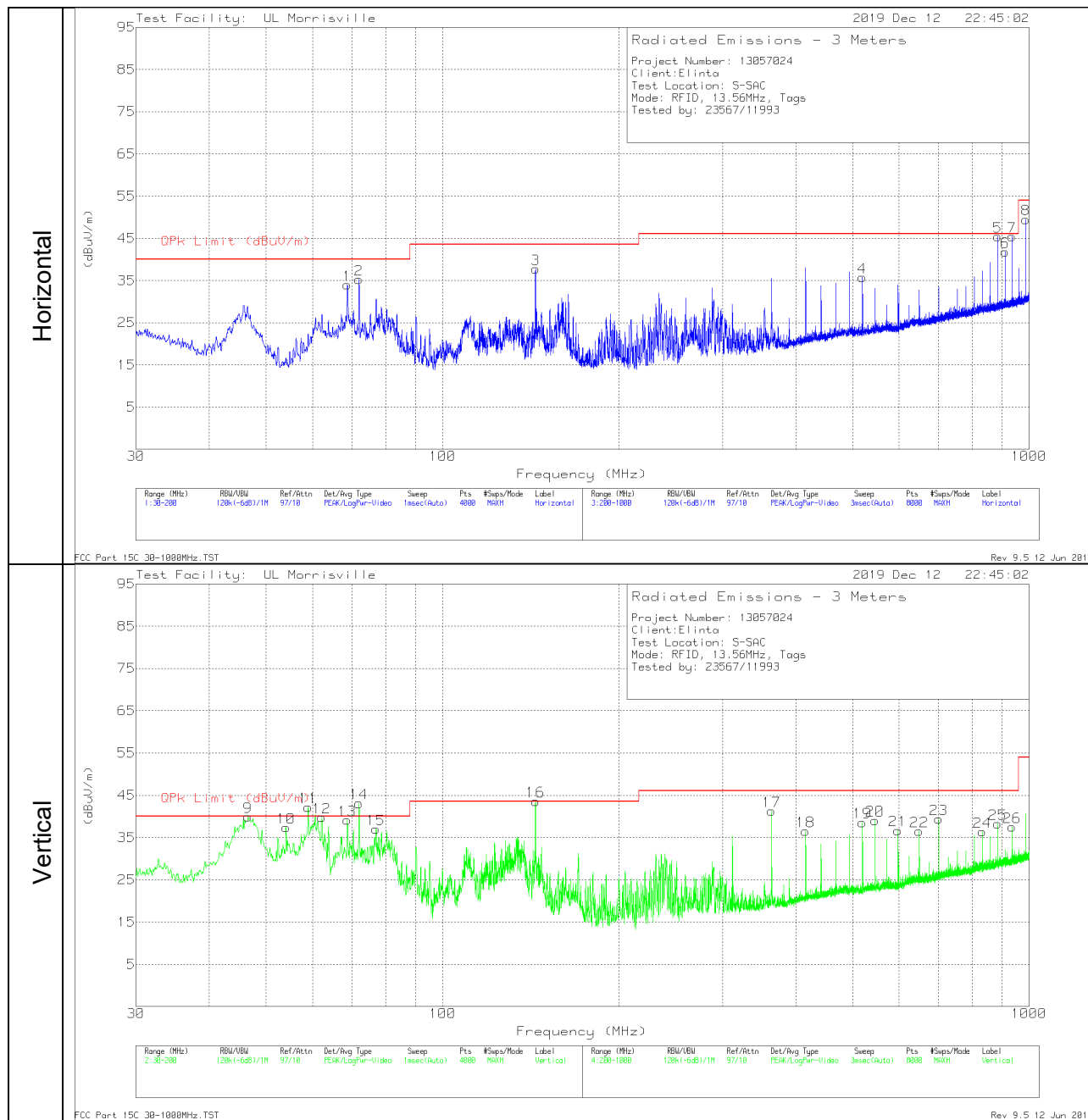
Pk - Peak detector

Qp - Quasi-Peak detector

Note: Failing points not related to the radio. See below plots in Section 8.3.3.

8.3.2. WITH TAG

SPURIOUS EMISSION



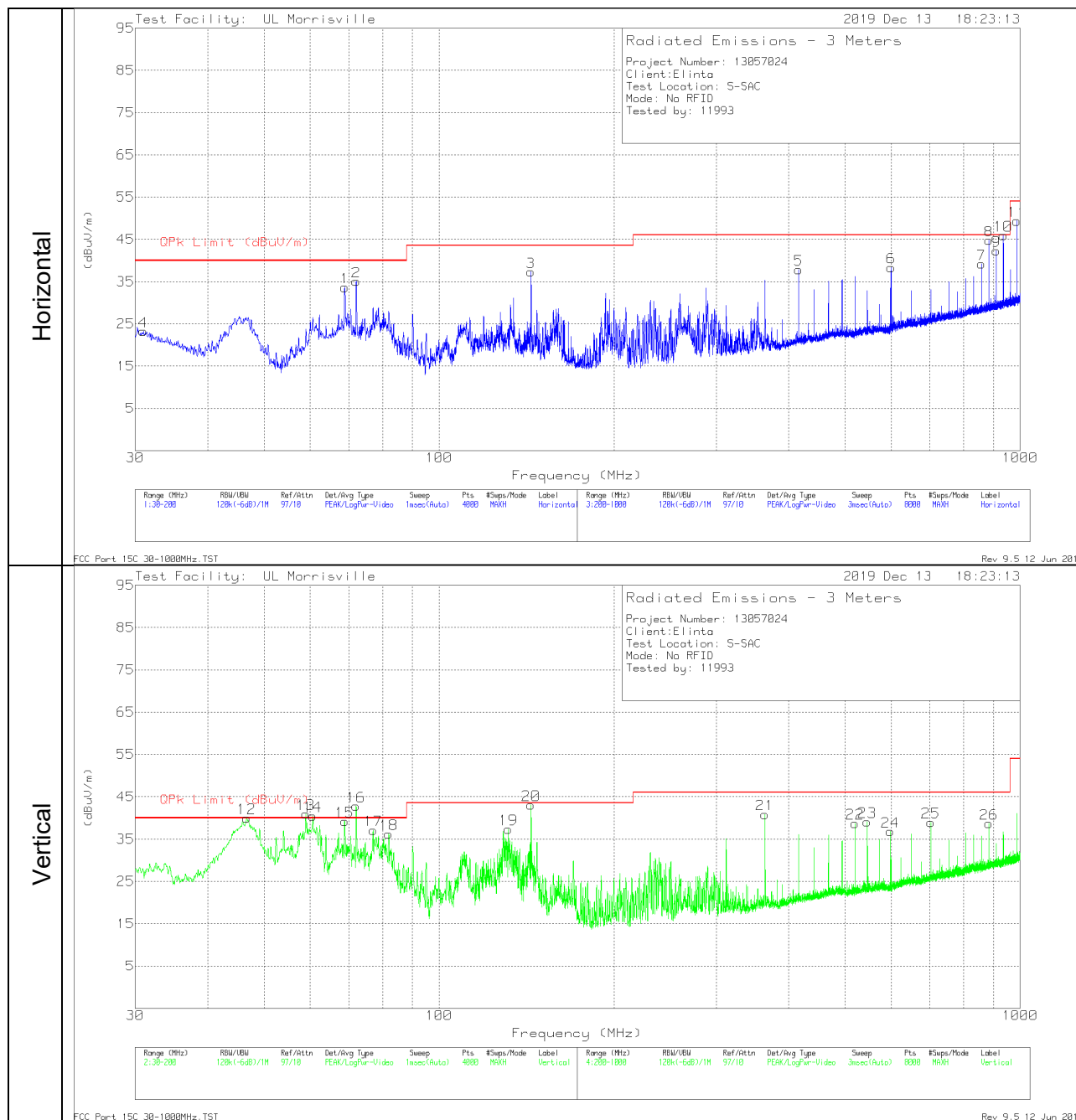
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0074 AF (dB/m)	Cbl/Amp	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9	46.6369	50.75	Qp	15.4	-31.5	34.65	40	-5.35	217	109	V
10	54.0593	51.34	Qp	13.4	-31.5	33.24	40	-6.76	55	117	V
11	59.0045	55.68	Qp	13.5	-31.4	37.78	40	-2.22	296	142	V
12	62.2732	52.4	Qp	13.7	-31.4	34.7	40	-5.3	312	137	V
13	68.8559	52.68	Qp	14.1	-31.3	35.48	40	-4.52	197	103	V
1	68.8231	50.36	Qp	14.1	-31.3	33.16	40	-6.84	302	258	H
2	72.0134	51.88	Qp	14.1	-31.2	34.78	40	-5.22	147	215	H
14	72.0287	58.35	Qp	14.1	-31.2	41.25	40	1.25	223	117	V
15	76.993	51.8	Qp	13.8	-31.3	34.3	40	-5.7	229	197	V
3	144.0155	49.02	Qp	18.9	-30.7	37.22	43.52	-6.3	300	196	H
16	144.0131	53.86	Qp	18.9	-30.7	42.06	43.52	-1.46	245	119	V
17	363.9906	49.01	Qp	21	-29.2	40.81	46.02	-5.21	287	103	V
18	416.0281	43.35	Pk	22.2	-29	36.55	46.02	-9.47	0-360	102	V
4	520.0416	40.77	Pk	23.8	-28.8	35.77	46.02	-10.25	0-360	101	H
19	520.0416	43.59	Pk	23.8	-28.8	38.59	46.02	-7.43	0-360	199	V
20	545.945	43.68	Pk	24.2	-28.8	39.08	46.02	-6.94	0-360	199	V
21	597.9517	41.11	Pk	24.3	-28.7	36.71	46.02	-9.31	0-360	199	V
22	649.9585	39.29	Pk	25.8	-28.6	36.49	46.02	-9.53	0-360	102	V
23	701.9652	41.62	Pk	26.3	-28.5	39.42	46.02	-6.6	0-360	102	V
24	831.9821	36.18	Pk	27.9	-27.7	36.38	46.02	-9.64	0-360	199	V
5	883.9865	45.5	Qp	28.2	-27.3	46.4	46.02	.38	4	110	H
25	883.9889	37.38	Pk	28.2	-27.3	38.28	46.02	-7.74	0-360	199	V
6	909.9889	37.77	Qp	28.4	-26.9	39.27	46.02	-6.75	1	103	H
7	935.9813	43.15	Qp	28.7	-26.6	45.25	46.02	-.77	303	103	H
26	935.9957	35.41	Pk	28.7	-26.6	37.51	46.02	-8.51	0-360	102	V
8	987.987	45.92	Qp	29.3	-25.9	49.32	53.97	-4.65	316	101	H

Pk - Peak detector

Qp - Quasi-Peak detector

Note: Failing points not related to the radio. See below plots in Section 8.3.3.

8.3.3. NO RADIO ON



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0074 AF (dB/m)	Cbl/Amp	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	30.9778	28.66	Pk	26.4	-31.8	23.26	40	-16.74	0-360	298	H
12	46.6643	56.07	Pk	15.4	-31.5	39.97	40	-.03	0-360	101	V
13	58.9925	58.85	Pk	13.5	-31.4	40.95	40	.95	0-360	101	V
14	60.6504	58.19	Pk	13.7	-31.4	40.49	40	.49	0-360	101	V
15	68.8125	56.41	Pk	14.1	-31.3	39.21	40	-.79	0-360	101	V
1	68.8551	50.87	Pk	14.1	-31.3	33.67	40	-6.33	0-360	198	H
16	72.0009	59.88	Pk	14.1	-31.2	42.78	40	2.78	0-360	101	V
2	72.0434	52.18	Pk	14.1	-31.2	35.08	40	-4.92	0-360	198	H
17	77.0597	54.64	Pk	13.8	-31.3	37.14	40	-2.86	0-360	101	V
18	81.9484	54.02	Pk	13.4	-31.2	36.22	40	-3.78	0-360	101	V
19	131.6438	48.47	Pk	19.7	-30.8	37.37	43.52	-6.15	0-360	101	V
3	144.0145	49.11	Pk	18.9	-30.7	37.31	43.52	-6.21	0-360	198	H
20	144.0145	54.88	Pk	18.9	-30.7	43.08	43.52	-.44	0-360	101	V
21	364.0213	49.08	Pk	21	-29.2	40.88	46.02	-5.14	0-360	101	V
5	416.0281	44.67	Pk	22.2	-29	37.87	46.02	-8.15	0-360	299	H
22	519.9416	43.74	Pk	23.8	-28.8	38.74	46.02	-7.28	0-360	199	V
23	545.945	43.7	Pk	24.2	-28.8	39.1	46.02	-6.92	0-360	199	V
24	597.9517	41.23	Pk	24.3	-28.7	36.83	46.02	-9.19	0-360	199	V
6	599.952	42.68	Pk	24.4	-28.7	38.38	46.02	-7.64	0-360	101	H
25	701.9652	41.19	Pk	26.3	-28.5	38.99	46.02	-7.03	0-360	101	V
7	857.9855	38.79	Pk	27.9	-27.5	39.19	46.02	-6.83	0-360	101	H
8	883.9889	43.9	Pk	28.2	-27.3	44.8	46.02	-1.22	0-360	101	H
26	883.9889	37.78	Pk	28.2	-27.3	38.68	46.02	-7.34	0-360	199	V
9	909.9923	40.83	Pk	28.4	-26.9	42.33	46.02	-3.69	0-360	101	H
10	935.9957	43.84	Pk	28.7	-26.6	45.94	46.02	-.08	0-360	101	H
11	988.0024	45.97	Pk	29.3	-25.9	49.37	53.97	-4.6	0-360	101	H

Pk - Peak detector

Note: With radio off, the failing emissions profile is the same.

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.

IC RSS-210, Annex B.6

Carrier frequency stability shall be maintained to $\pm 0.01\%$ (± 100 ppm).

TEST PROCEDURE

ANSI C63.10-2013 Clause 6.8

TEST INFORMATION

Date: 2019-12-17

Project No: 13057024

Tester: 40882

9.1. WITHOUT TAG

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 13.560 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(VAC or VDC)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
230.00	50	13.5596930	0.015	13.5596930	0.015	13.5596920	0.022	13.5596930	0.015	± 100
230.00	40	13.5596960	-0.007	13.5596980	-0.022	13.5596990	-0.029	13.5597000	-0.037	± 100
230.00	30	13.5597020	-0.052	13.5597010	-0.044	13.5596990	-0.029	13.5596980	-0.022	± 100
230.00	20	13.5596950	0.000	13.5596930	0.015	13.5596920	0.022	13.5596930	0.015	± 100
230.00	10	13.5596940	0.007	13.5596950	0.000	13.5596970	-0.015	13.5596990	-0.029	± 100
230.00	0	13.5597000	-0.037	13.5597010	-0.044	13.5597010	-0.044	13.5597020	-0.052	± 100
230.00	-10	13.5596100	0.627	13.5596100	0.627	13.5596100	0.627	13.5596100	0.627	± 100
230.00	-20	13.5594310	1.947	13.5594310	1.947	13.5594309	1.948	13.5594309	1.948	± 100
195.50	20	13.5599010	-1.519	13.5599010	-1.519	13.5599110	-1.593	13.5599100	-1.586	± 100
264.50	20	13.5597050	-0.074	13.5597050	-0.074	13.5597050	-0.074	13.5597050	-0.074	± 100

9.2. WITH TAG

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 13.560 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(VAC or VDC)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
230.00	50	13.5596920	0.288	13.5596910	0.295	13.5596910	0.295	13.5596910	0.295	± 100
230.00	40	13.5596930	0.280	13.5596930	0.280	13.5596930	0.280	13.5596930	0.280	± 100
230.00	30	13.5597070	0.177	13.5597000	0.229	13.5596970	0.251	13.5596950	0.265	± 100
230.00	20	13.5597310	0.000	13.5597240	0.052	13.5597210	0.074	13.5597180	0.096	± 100
230.00	10	13.5597600	-0.214	13.5597470	-0.118	13.5597440	-0.096	13.5597390	-0.059	± 100
230.00	0	13.5597610	-0.221	13.5597600	-0.214	13.5597580	-0.199	13.5597510	-0.147	± 100
230.00	-10	13.5597550	-0.177	13.5597560	-0.184	13.5597580	-0.199	13.5597600	-0.214	± 100
230.00	-20	13.5597270	0.029	13.5597290	0.015	13.5597370	-0.044	13.5597380	-0.052	± 100
195.50	20	13.5596920	0.288	13.5596920	0.288	13.5596920	0.288	13.5596920	0.288	± 100
264.50	20	13.5596920	0.288	13.5596920	0.288	13.5596920	0.288	13.5596920	0.288	± 100

10. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207

IC RSS-GEN, Section 8.8

(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.		

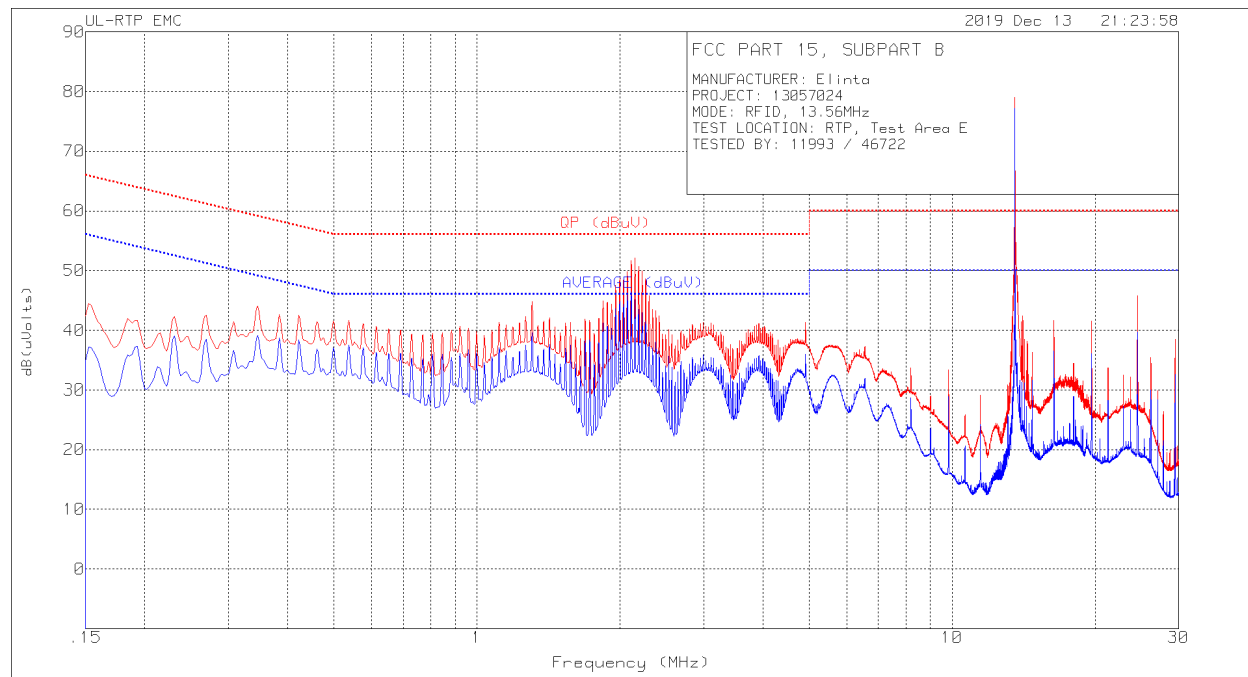
TEST PROCEDURE

ANSI C63.10:2013

10.1. WITHOUT TAG

10.1.1. NORMAL OPERATION

LINE 1 RESULTS



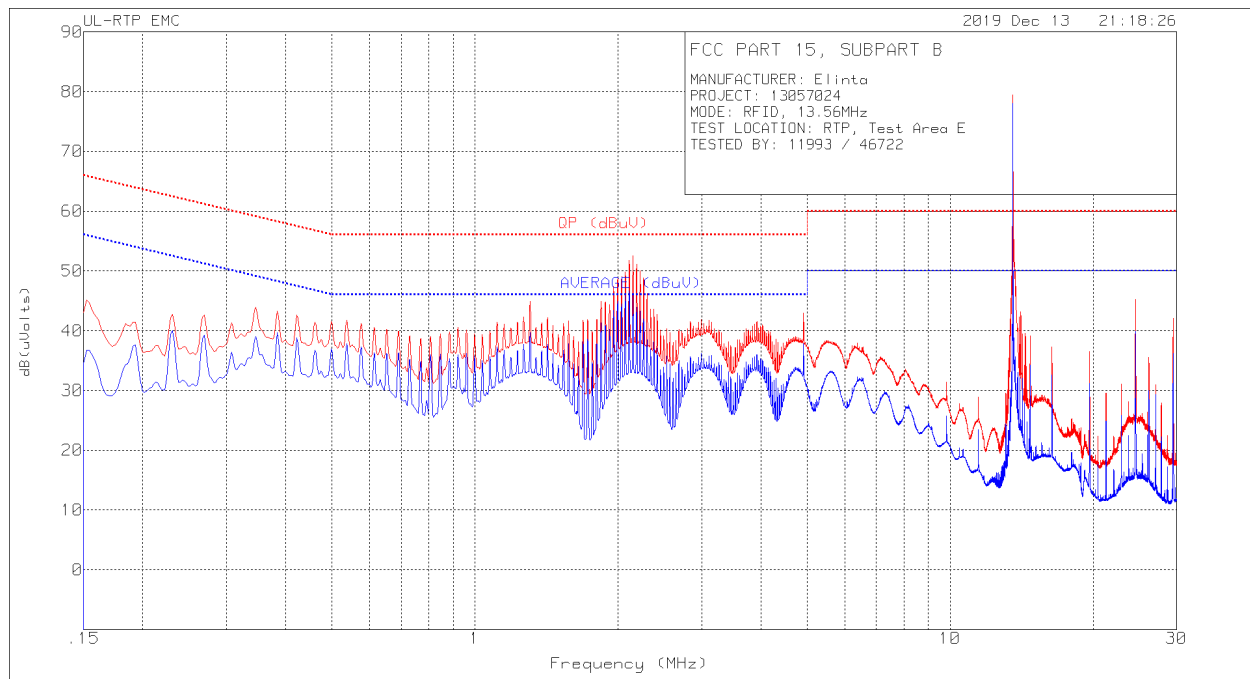
Frequency (MHz)	Meter Reading (dBuV)	Det	LISN002 (dB)	ATA011_AT A508 (dB)	Corrected Reading dB(uVolts)	FCC QP Limit (dBuV)	Margin (dB)	FCC AV Limit (dBuV)	Margin (dB)
1.3065	30.19	Ca	0	9.4	39.59	-	-	46	-6.41
2.15025	35.77	Ca	0	9.4	45.17	-	-	46	-8.3
4.9155	26.44	Ca	.1	9.5	36.04	-	-	46	-9.96
16.38375	26.7	Ca	.1	9.7	36.5	-	-	50	-13.5
19.65975	26.24	Ca	.2	9.7	36.14	-	-	50	-13.86
24.576	29.84	Ca	.2	9.7	39.74	-	-	50	-10.26
29.49113	22.66	Ca	.3	9.7	32.66	-	-	50	-17.34
1.3065	35.46	Qp	0	9.4	44.86	56	-11.14	-	-
2.15025	42.74	Qp	0	9.4	52.14	56	-3.86	-	-
4.9155	31.76	Qp	.1	9.5	41.36	56	-14.64	-	-
16.38375	31.9	Qp	.1	9.7	41.7	60	-18.3	-	-
19.65975	31.63	Qp	.2	9.7	41.53	60	-18.47	-	-
24.576	35.88	Qp	.2	9.7	45.78	60	-14.22	-	-
29.49	28.52	Qp	.3	9.7	38.52	60	-21.48	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section indicate that when the antenna terminal is terminated the fundamental amplitude is lowering below the limit line.

LINE 2 RESULTS



Frequency (MHz)	Meter Reading (dBuV)	Det	LISN002 (dB)	ATA011_AT A508 (dB)	Corrected Reading dB(uVolts)	FCC QP Limit (dBuV)	Margin (dB)	FCC AV Limit (dBuV)	Margin (dB)
.34575	29.61	Ca	.1	9.3	39.01	-	-	49.06	-10.05
1.3065	30.29	Ca	0	9.4	39.69	-	-	46	-6.31
2.15025	36.5	Ca	0	9.4	45.9	-	-	46	-.1
4.9155	28.23	Ca	.1	9.5	37.83	-	-	46	-8.17
14.74575	24.4	Ca	.1	9.7	34.2	-	-	50	-15.8
16.38375	22.77	Ca	.1	9.7	32.57	-	-	50	-17.43
24.576	30.01	Ca	.2	9.7	39.91	-	-	50	-10.09
29.49225	26.21	Ca	.3	9.7	36.21	-	-	50	-13.79
.34575	34.53	Qp	.1	9.3	43.93	59.06	-15.13	-	-
1.3065	35.56	Qp	0	9.4	44.96	56	-11.04	-	-
2.15025	43.11	Qp	0	9.4	52.51	56	-3.49	-	-
4.9155	33.37	Qp	.1	9.5	42.97	56	-13.03	-	-
14.74575	29.3	Qp	.1	9.7	39.1	60	-20.9	-	-
16.38375	27.48	Qp	.1	9.7	37.28	60	-22.72	-	-
24.57375	35.38	Qp	.2	9.7	45.28	60	-14.72	-	-
29.49225	32.11	Qp	.3	9.7	42.11	60	-17.89	-	-

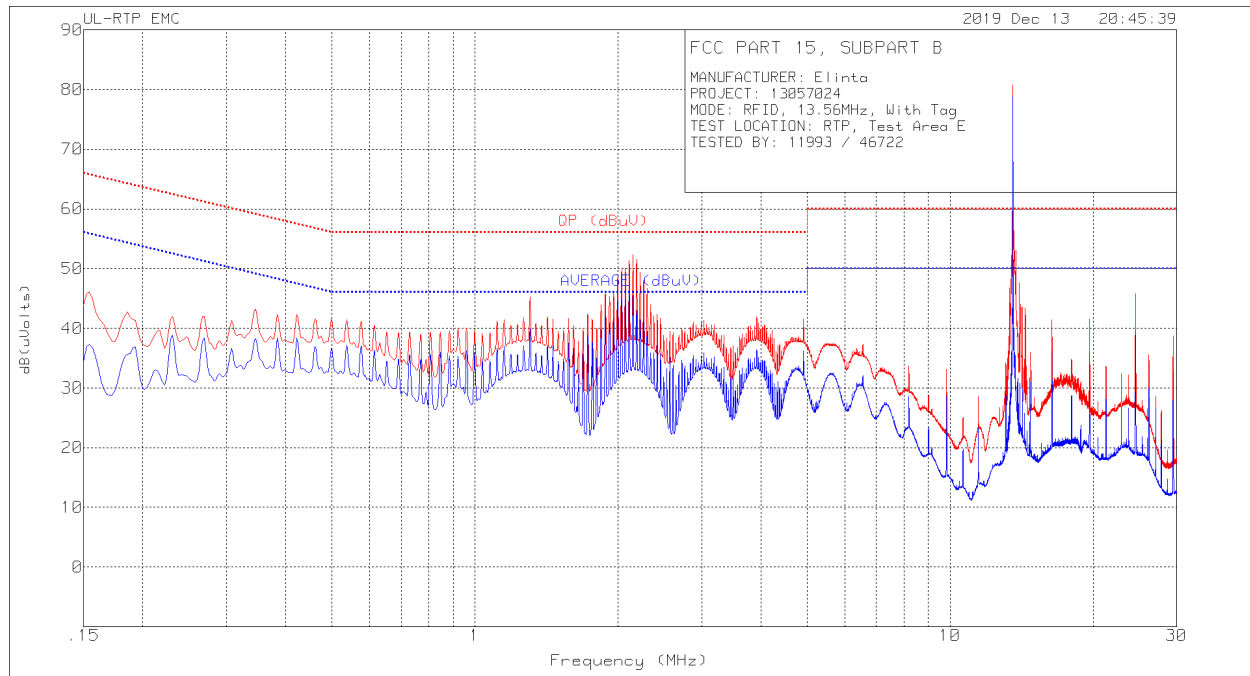
Qp - Quasi-Peak detector
Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section indicate that when the antenna terminal is terminated the fundamental amplitude is lowering below the limit line.

10.2. WITH TAG

10.2.1. NORMAL OPERATION

LINE 1 RESULTS



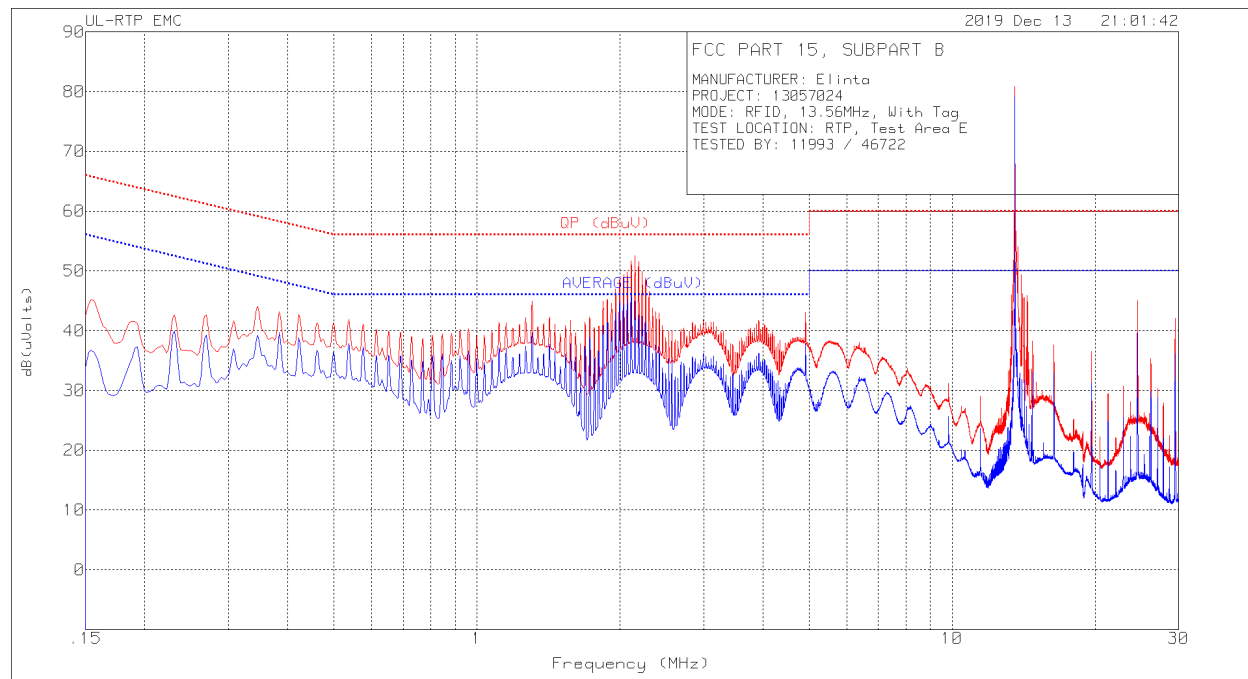
Frequency (MHz)	Meter Reading (dBuV)	Det	LISN004-007 (dB)	ATA011_AT A508 (dB)	Corrected Reading dB(uVolts)	FCC QP Limit (dBuV)	Margin (dB)	FCC AV Limit (dBuV)	Margin (dB)
.1545	27.84	Ca	.2	9.3	37.34	-	-	55.75	-18.41
.34575	28.9	Ca	.1	9.3	38.3	-	-	49.06	-10.76
1.3065	30.51	Ca	0	9.4	39.91	-	-	46	-6.09
2.1525	34.98	Ca	0	9.4	44.38	-	-	46	-1.62
16.38375	26.3	Ca	.1	9.7	36.1	-	-	50	-13.9
19.65975	26.12	Ca	.2	9.7	36.02	-	-	50	-13.98
24.576	29.82	Ca	.2	9.7	39.72	-	-	50	-10.28
29.49	22.76	Ca	.3	9.7	32.76	-	-	50	-17.24
.1545	36.64	Qp	.2	9.3	46.14	65.75	-19.61	-	-
.34575	33.82	Qp	.1	9.3	43.22	59.06	-15.84	-	-
1.3065	35.84	Qp	0	9.4	45.24	56	-10.76	-	-
2.1525	41.94	Qp	0	9.4	51.34	56	-4.66	-	-
16.38375	31.6	Qp	.1	9.7	41.4	60	-18.6	-	-
19.65975	31.64	Qp	.2	9.7	41.54	60	-18.46	-	-
24.576	35.85	Qp	.2	9.7	45.75	60	-14.25	-	-
29.49	28.69	Qp	.3	9.7	38.69	60	-21.31	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section indicate that when the antenna terminal is terminated the fundamental amplitude is lowering below the limit line.

LINE 2 RESULTS



Frequency (MHz)	Meter Reading (dBuV)	Det	LISN004-007 (dB)	ATA011_AT A508 (dB)	Corrected Reading dB(uVolts)	FCC QP Limit (dBuV)	Margin (dB)	FCC AV Limit (dBuV)	Margin (dB)
.1545	27.3	Ca	.2	9.3	36.8	-	-	55.75	-18.95
1.3065	30.26	Ca	0	9.4	39.66	-	-	46	-6.34
2.15025	35.51	Ca	0	9.4	44.91	-	-	46	-1.09
4.9155	28.33	Ca	0	9.5	37.83	-	-	46	-8.17
16.38375	23.15	Ca	.1	9.7	32.95	-	-	50	-17.05
24.576	29.81	Ca	.2	9.7	39.71	-	-	50	-10.29
29.49225	26.22	Ca	.3	9.7	36.22	-	-	50	-13.78
.1545	35.73	Qp	.2	9.3	45.23	65.75	-20.52	-	-
1.3065	35.51	Qp	0	9.4	44.91	56	-11.09	-	-
2.15025	43.11	Qp	0	9.4	52.51	56	-3.49	-	-
4.9155	33.54	Qp	0	9.5	43.04	56	-12.96	-	-
16.38375	27.79	Qp	.1	9.7	37.59	60	-22.41	-	-
24.57375	35.17	Qp	.2	9.7	45.07	60	-14.93	-	-
29.49	32.09	Qp	.3	9.7	42.09	60	-17.91	-	-

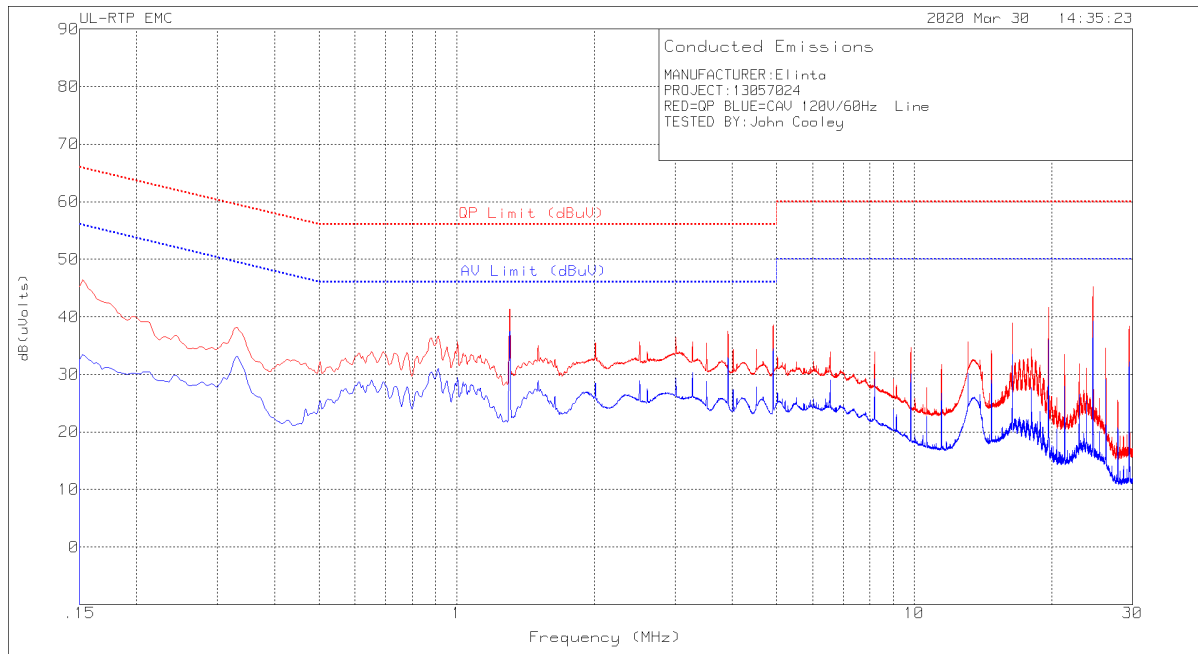
Qp - Quasi-Peak detector

Ca - CISPR average detection

Note: 13.56MHz is a fundamental frequency of the EUT. Data under the following section indicate that when the antenna terminal is terminated the fundamental amplitude is lowering below the limit line.

10.3. ANTENNA PORT TERMINATED WITH DUMMY LOAD

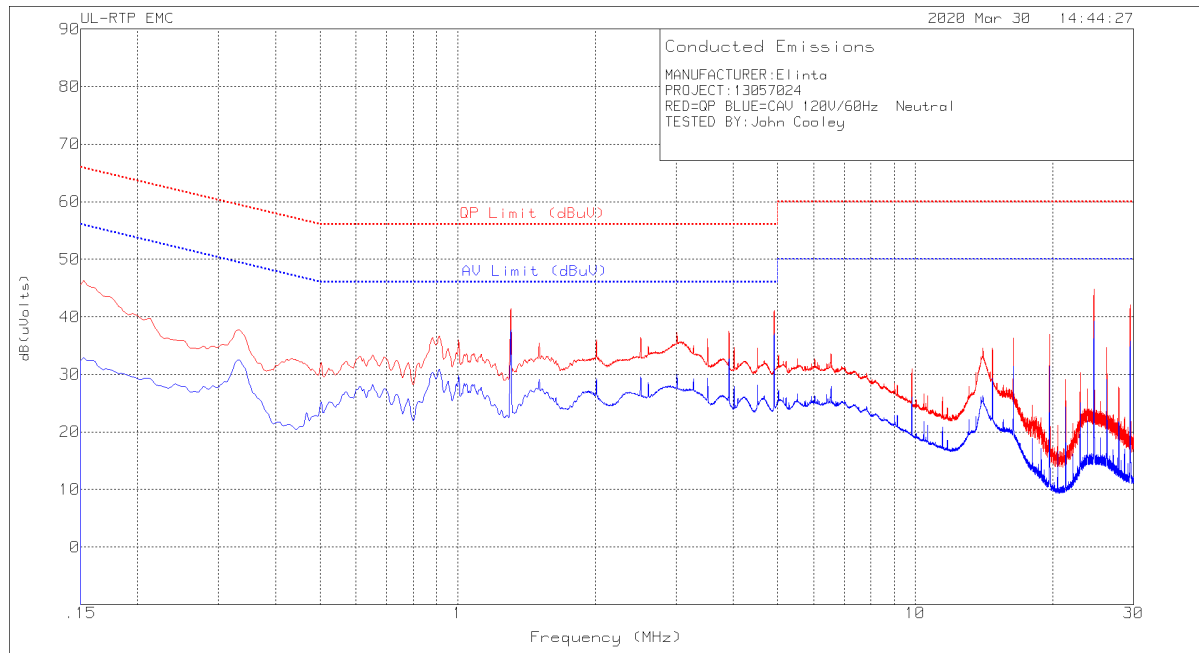
LINE 1 RESULTS



Frequency (MHz)	Meter Reading (dBuV)	Det	LISN002 (dB)	ATA011_ATA508 (dB)	Corrected Reading dB(uVolts)	QP Limit (dBuV)	Margin (dB)	AV Limit (dBuV)	Margin (dB)
1.3065	28.06	Ca	0	9.4	37.46	-	-	46	-8.54
3.9165	23.57	Ca	0	9.4	32.97	-	-	46	-13.03
4.9155	24.83	Ca	.1	9.5	34.43	-	-	46	-11.57
16.38375	23.67	Ca	.1	9.7	33.47	-	-	50	-16.53
19.65975	26.13	Ca	.2	9.7	36.03	-	-	50	-13.97
24.576	29.36	Ca	.2	9.7	39.26	-	-	50	-10.74
1.3065	31.93	Qp	0	9.4	41.33	56	-14.67	-	-
3.9165	28.09	Qp	0	9.4	37.49	56	-18.51	-	-
4.9155	28.99	Qp	.1	9.5	38.59	56	-17.41	-	-
16.38375	29.14	Qp	.1	9.7	38.94	60	-21.06	-	-
19.6575	31.73	Qp	.2	9.7	41.63	60	-18.37	-	-
24.576	35.39	Qp	.2	9.7	45.29	60	-14.71	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



Frequency (MHz)	Meter Reading (dBuV)	Det	LISN002 (dB)	ATA011_ATA508 (dB)	Corrected Reading dB(uVolts)	QP Limit (dBuV)	Margin (dB)	AV Limit (dBuV)	Margin (dB)
1.3065	28.29	Ca	0	9.4	37.69	-	-	46	-8.31
3.0165	20.62	Ca	0	9.4	30.02	-	-	46	-15.98
3.91875	23.32	Ca	0	9.4	32.72	-	-	46	-13.28
4.9155	27.53	Ca	.1	9.5	37.13	-	-	46	-8.87
24.576	29.32	Ca	.2	9.7	39.22	-	-	50	-10.78
29.49225	25.72	Ca	.3	9.7	35.72	-	-	50	-14.28
1.3065	32.06	Qp	0	9.4	41.46	56	-14.54	-	-
3.0165	27.88	Qp	0	9.4	37.28	56	-18.72	-	-
3.9165	28.09	Qp	0	9.4	37.49	56	-18.51	-	-
4.9155	31.52	Qp	.1	9.5	41.12	56	-14.88	-	-
24.57375	34.96	Qp	.2	9.7	44.86	60	-15.14	-	-
29.49	32.08	Qp	.3	9.7	42.08	60	-17.92	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11. SETUP PHOTOS

Please refer to R13057024-EP1 for setup photos

END OF TEST REPORT