



**FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8**

CERTIFICATION TEST REPORT

FOR

APPLE WATCH

MODEL NUMBER: A1803

**FCC ID: BCG-E3103
IC: 579C-E3103**

REPORT NUMBER: 16U23783-E4V3

ISSUE DATE: AUGUST 27, 2016

Prepared for
**APPLE, INC.
1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.**

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	8/15/2016	Initial Issue	Chin Pang
V2	8/26/2016	Revised report to address TCB's questions	Tina Chu
V3	8/27/2016	Revised report to address TCB's question	Tina Chu

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE, INC.
1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.

EUT DESCRIPTION: APPLE WATCH

MODEL: A1803

SERIAL NUMBER: FH7RM02DH91Q

DATE TESTED: JUNE 15 – AUGUST 25, 2016

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Pass
INDUSTRY CANADA RSS-210 Issue 8, Annex 2	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. 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. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Verification Services Inc. By:

Prepared By:



CHIN PANG
SENIOR ENGINEER
UL VERIFICATION SERVICES INC.



TOM CHEN
EMC ENGINEER
UL VERIFICATION SERVICES INC.

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, RSS-GEN Issue 4, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. 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.

47173 Benicia Street	47266 Benicia Street
☐ Chamber A	☐ Chamber D
☐ Chamber B	☒ Chamber E
☐ Chamber C	☐ Chamber F
	☐ Chamber G
	☒ Chamber H

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers A through H are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-8, respectively

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

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

Where relevant, the following sample calculation is provided:

$$\begin{aligned}\text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m}\end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 9KHz to 0.15 MHz	± 3.84 dB
Conducted Disturbance, 0.15 to 30 MHz	± 3.65 dB
Radiated Disturbance, 9KHz to 30 MHz	± 3.15 dB
Radiated Disturbance, 30 to 1000 MHz	± 5.36 dB
Radiated Disturbance, 1000 to 18000 MHz	± 4.32 dB
Radiated Disturbance, 18000 to 26000 MHz	± 4.45 dB
Radiated Disturbance, 26000 to 40000 MHz	± 5.24 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an Apple Watch with WLAN, Bluetooth, and NFC support.

CE mode is NFC Card Emulation Mode

5.2. MAXIMUM OUTPUT POWER

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

EUT WITH AC/DC ADAPTER

Frequency Range (MHz)	Mode	Type	E Field at 30m distance (dBuV/m)
13.56	CE Mode	A	7.91
		B	6.89
		F	7.04
	Reader	A	6.80
		B	7.21
		F	7.21

5.3. SOFTWARE AND FIRMWARE

The test utility software used during testing was 14S310.

5.4. WORST-CASE CONFIGURATION AND MODE

EUT has 1 type of enclosure and various kinds of metallic and non-metallic wristbands. There are 2 types of metallic bands; Metal Links, and Metal Mesh. Worst case configuration was investigated; and it was found that metal mesh wristband was the worst case. All testing are performed on the worst case.

The fundamental of the EUT and radiated emission were investigated in three orthogonal orientations X (Flatbed), Y (Landscape), Z (Portrait). The Y (Landscape) orientation was determined to be the worst-case orientation; therefore, all final fundamental and radiated testing were performed with the EUT in Y (Landscape) orientation.

Fundamental and radiated emissions were investigated with EUT charging with wireless charger and as standalone. EUT charging with wireless charger was determined to be worst case. Therefore all final fundamental and radiated emissions were performed with the EUT charged by wireless charger.

Based on all of the CE mode data rates, no significant difference among the data rates, therefore, all Reader mode 30-1000MHz spurious emission and frequency stability only performed on highest data rate.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test 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 937606.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Apple	Mac Book Pro	W801200UD94	n/a
Laptop AC/DC Adapter	Apple	85W MagSAfe Power adapter	A122	n/a
Wireless Charger AC/DC Adapter	Apple	A1385	D292365B2FQDHLHC7	n/a
Wireless Charger	Apple	A1768	DLC616200ZYHE1Y835	BCGA1768

I/O CABLES (RADIATED TEST)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB	1	USB	Un-Shielded	2	To AC/DC adapter

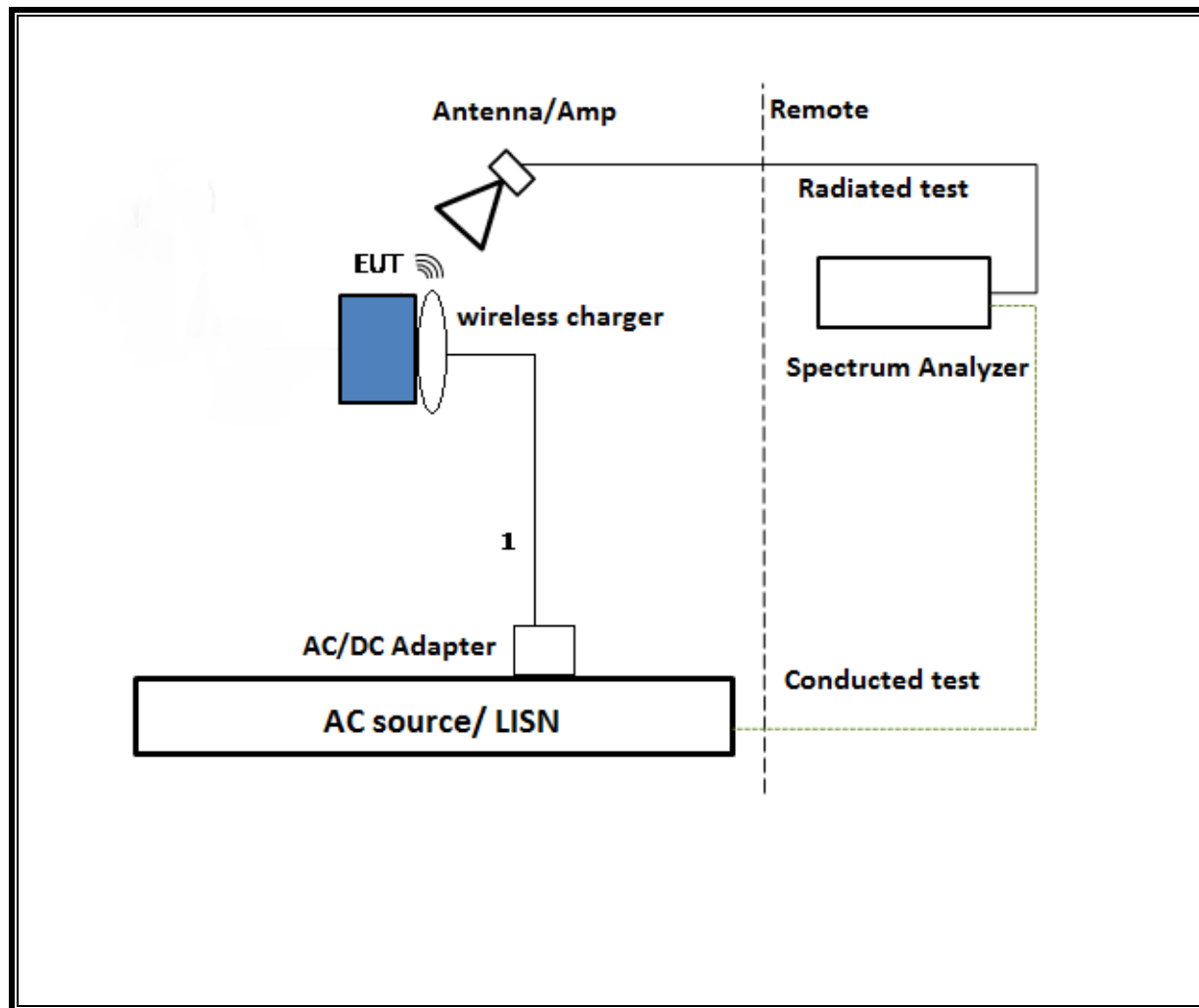
I/O CABLES (CONDUCTED TEST)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
2	USB	1	USB to mini USB	Shielded	1	To laptop and fixture

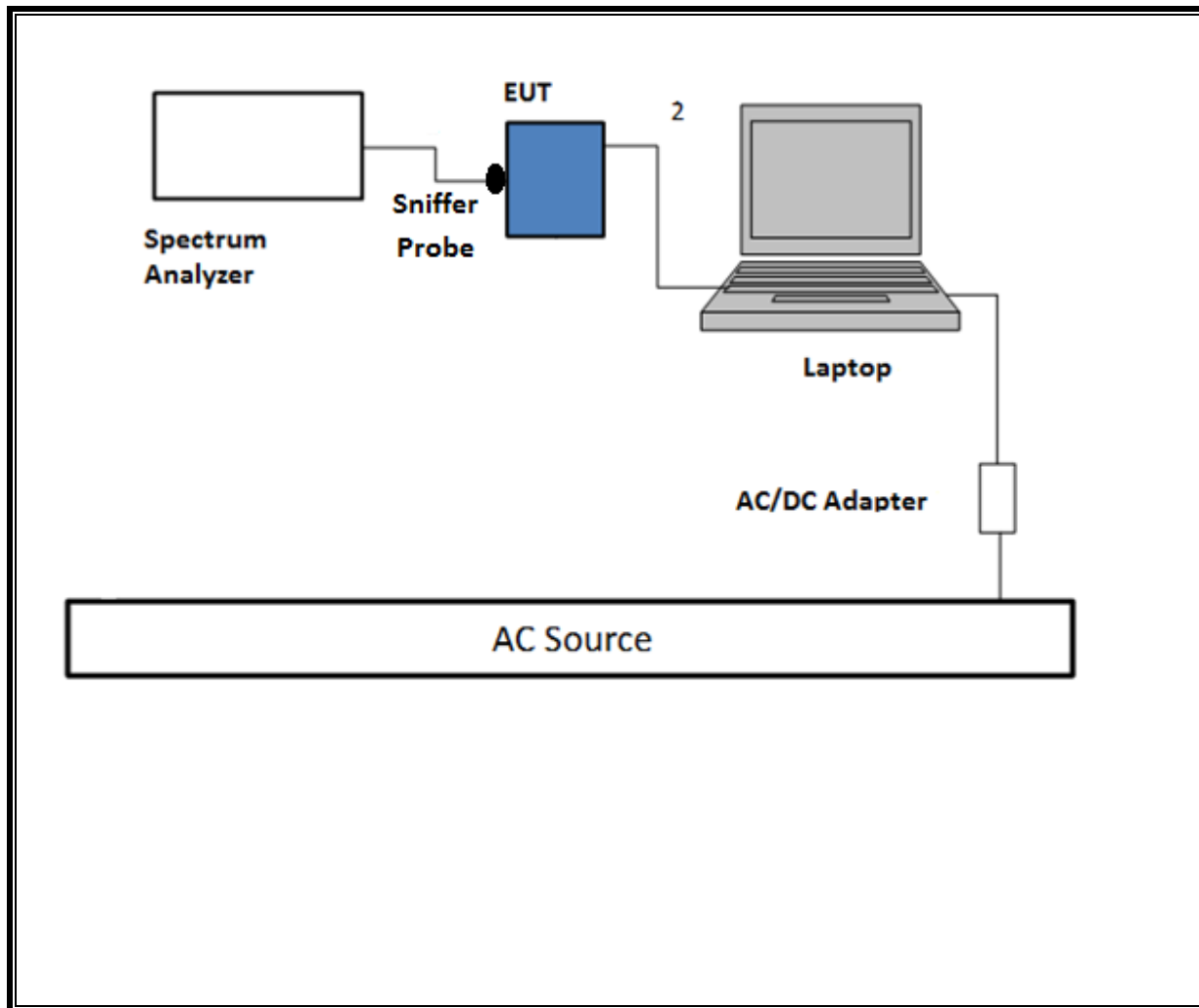
I/O CABLES (TEMPERATURE CHAMBER)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
3	DC	2	Alligator	18 AWG strand	1	Insulated cable

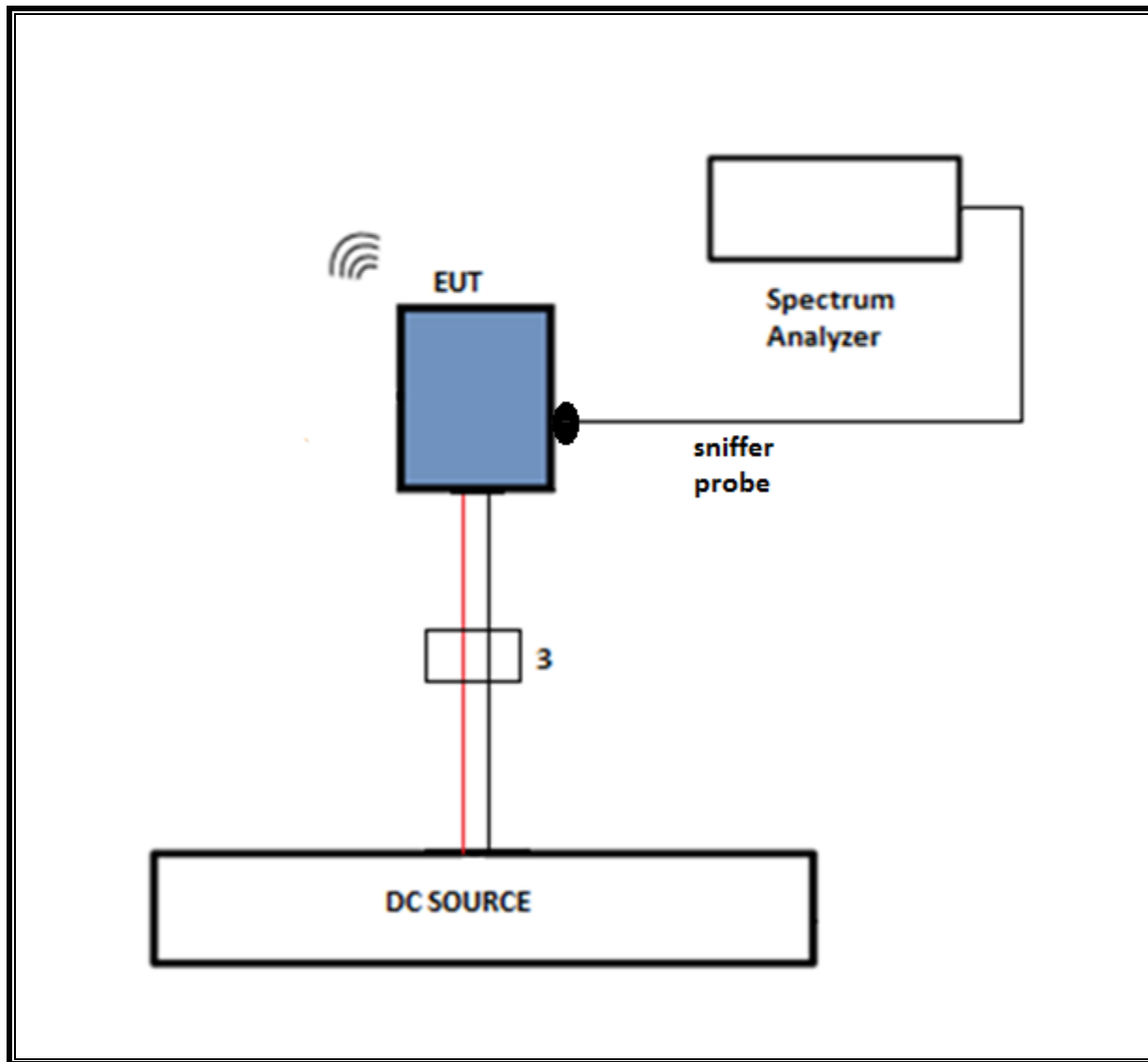
SETUP DIAGRAM RADIATED



SETUP DIAGRAM- CONDUCTED



SETUP DIAGRAM FREQUENCY STABILITY



6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List				
Description	Manufacturer	Model	T No.	Cal Due
Antenna, Broadband Hybrid	Sunol Sciences	JB3	899	05/26/17
**Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	835	06/18/16
***Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	835	06/18/17
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	906	02/03/17
Antenna, Loop, 30 MHz	ETS Lindgren	6502	757	05/31/17
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	754	09/21/16
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	340	11/16/16
UL SOFTWARE				
*Radiated Software	UL	UL EMC	Fundamental mask, 5/7/15	
*Conducted Software	UL	UL EMC	Ver 2.2, March 31, 2015	
*Radiated Software	UL	UL EMC	Below 30Mhz, 6/24/15	
*Radiated Software	UL	UL EMC	Below 1Ghz, 7/15/14	

Note: * indicates automation software version used in the compliance certification testing.

**Equipment was used before calibration due date.

***Equipment was used after calibration.

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 10kHz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

ID:	29435	Date:	7/19/16
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99% and 20dB BW

CE Mode

Moduation	Frequency (MHz)	Data Rate (Kbps)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
Type A	13.56	848	21.309	25.03
		424	21.431	24.96
		212	21.279	25.24
		106	21.883	25.08

Moduation	Frequency (MHz)	Data Rate (Kbps)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
Type B	13.56	848	21.337	25.46
		424	21.238	25.07
		212	21.344	25.21
		106	21.375	25.19

Moduation	Frequency (MHz)	Data Rate (Kbps)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
Type F	13.56	424	21.656	25.34
		212	22.453	25.49

READER Mode

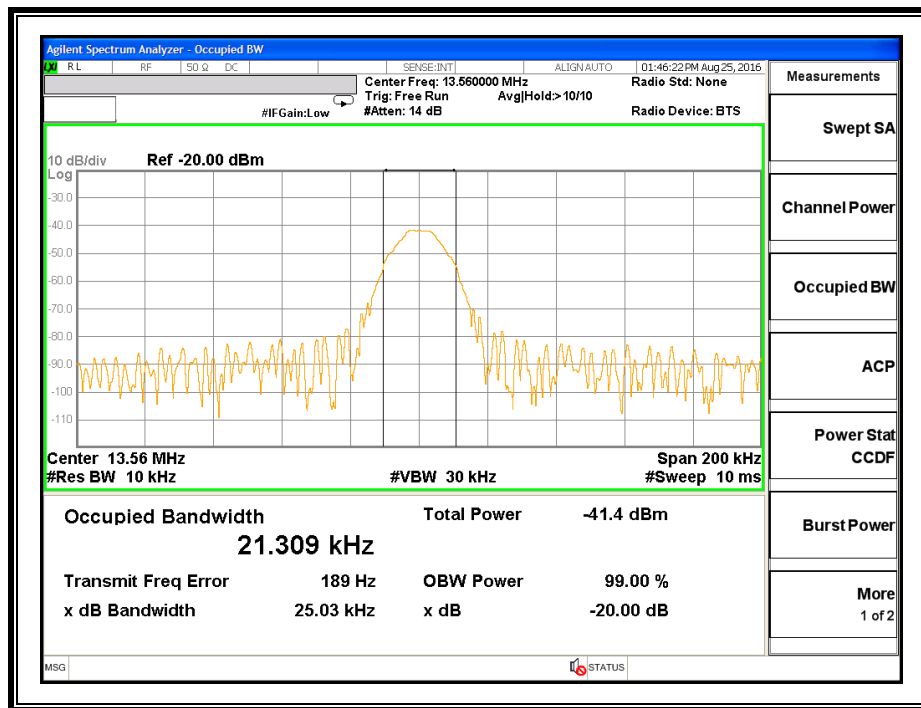
Moduation	Frequency (MHz)	Data Rate (Kbps)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
Type A	13.56	848	21.548	25.33
		424	21.803	25.54
		212	22.261	25.07
		106	22.401	25.04

Moduation	Frequency (MHz)	Data Rate (Kbps)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
Type B	13.56	848	21.996	25.24
		424	22.581	25.45
		212	22.473	25.93
		106	22.494	26.01

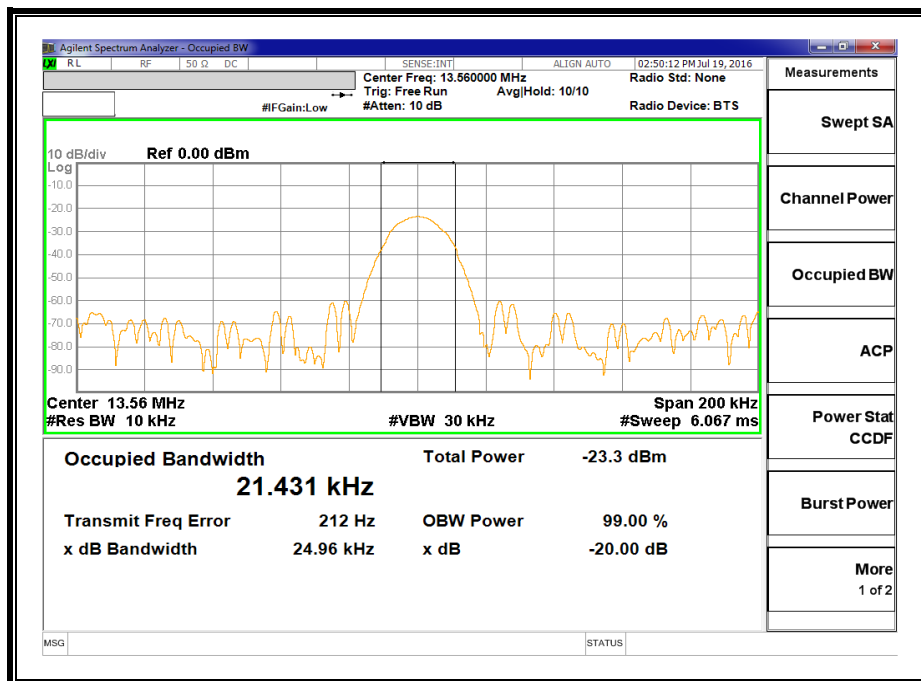
Moduation	Frequency (MHz)	Data Rate (Kbps)	99% Bandwidth (KHz)	20dB Bandwidth (KHz)
Type F	13.56	424	21.609	24.85
		212	21.277	24.38

7.1. CE MODE

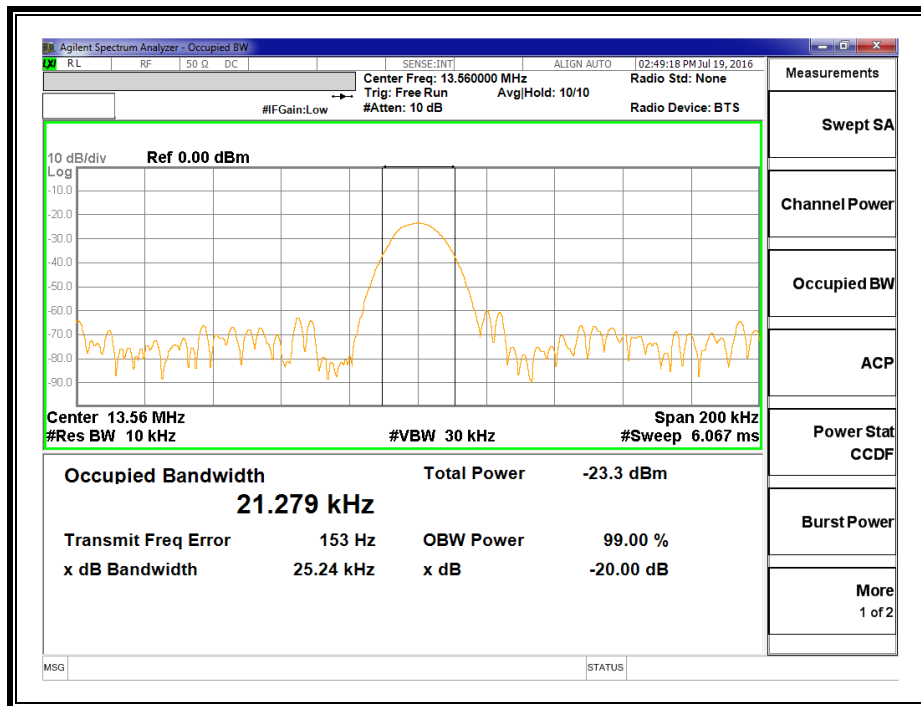
Type A, 848Kbps



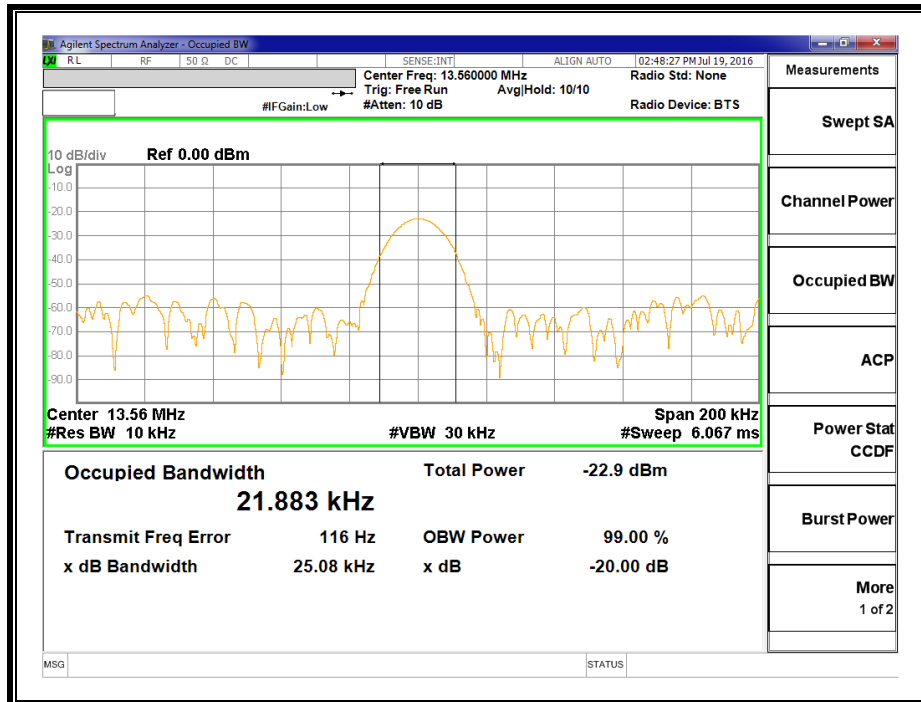
424Kbps



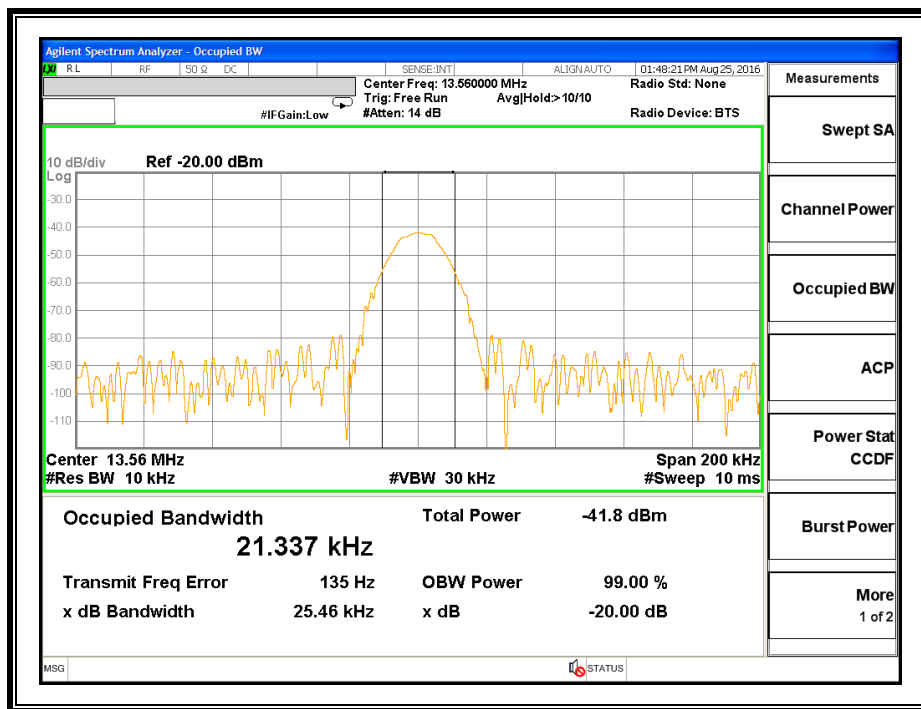
212Kbps



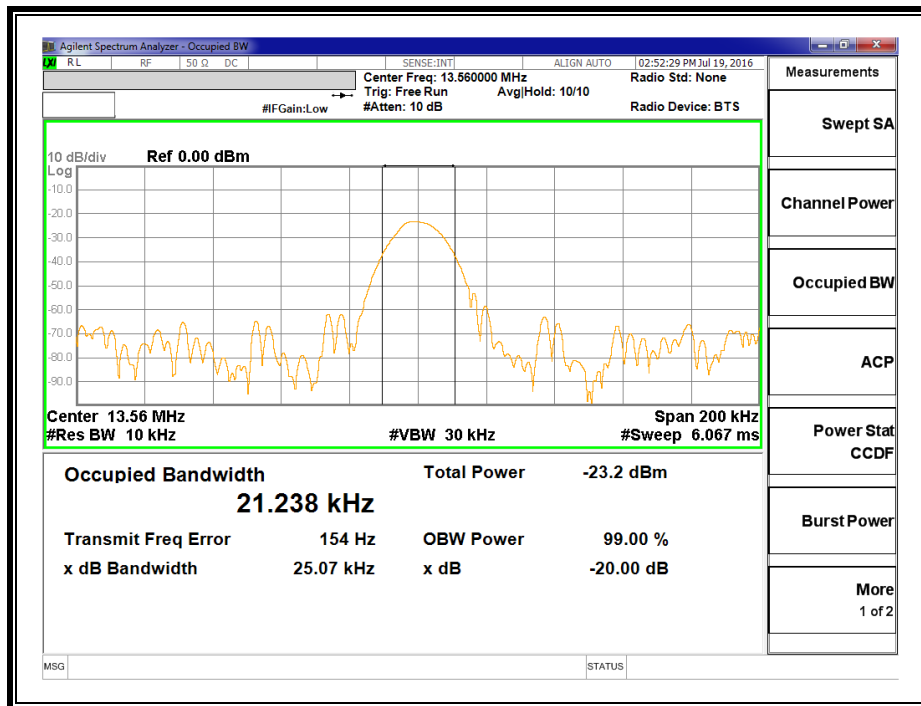
106Kbps



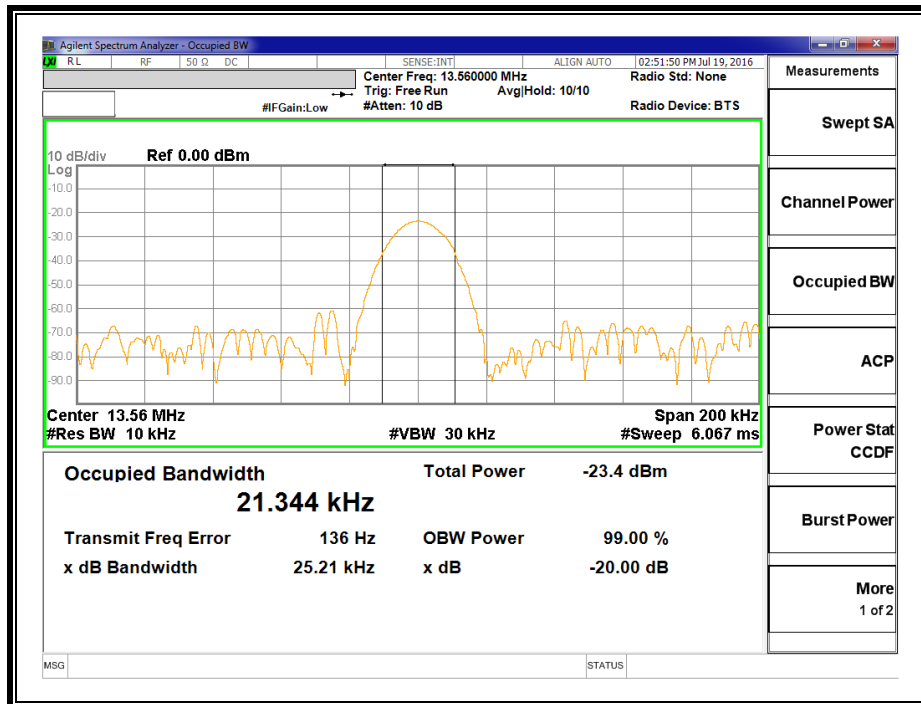
Type B, 848Kbps



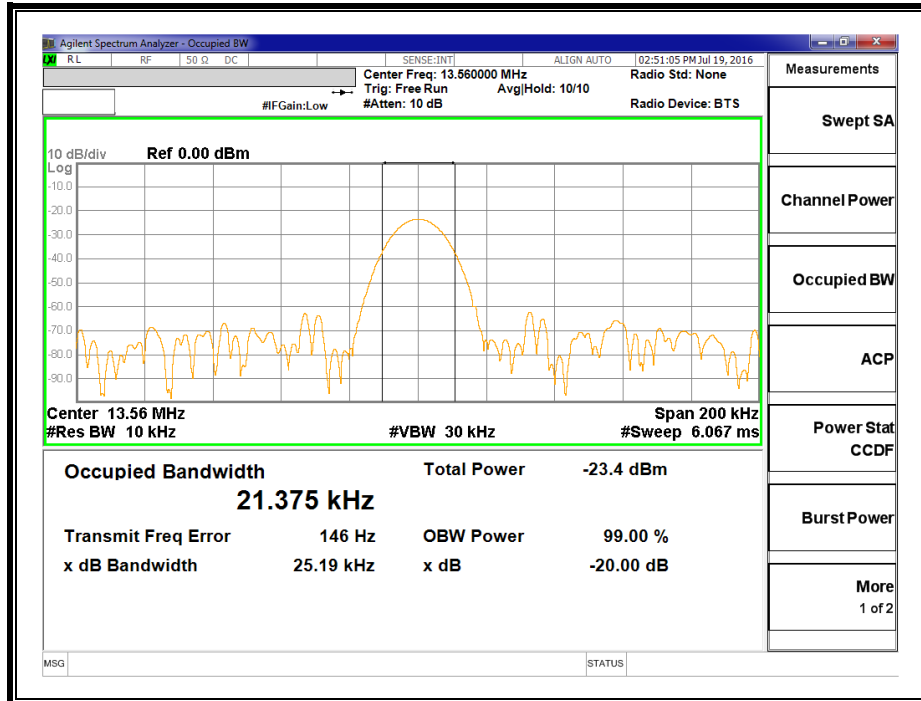
424Kbps



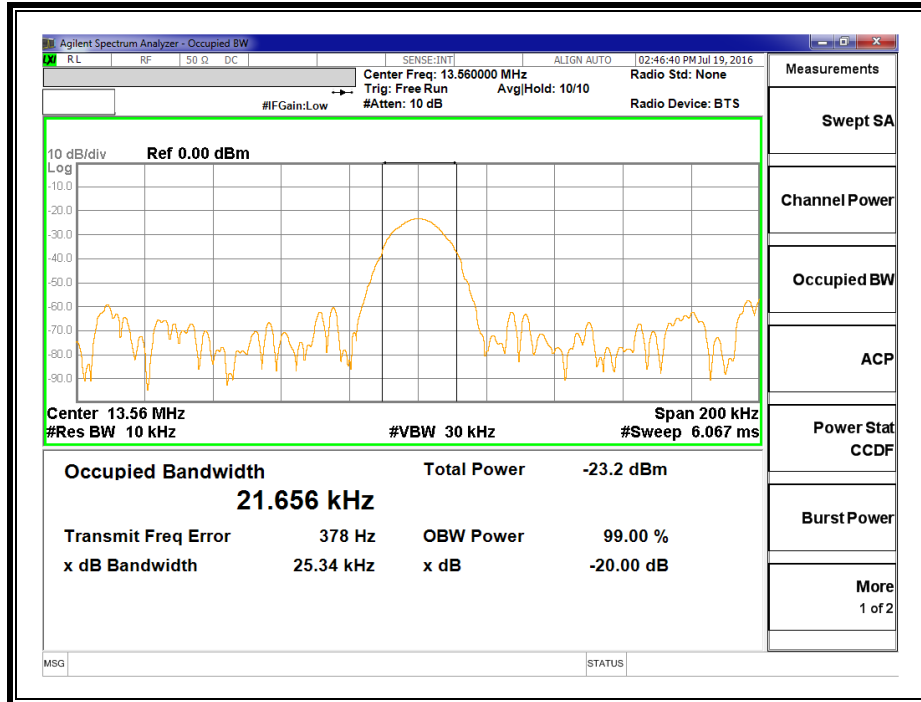
212Kbps



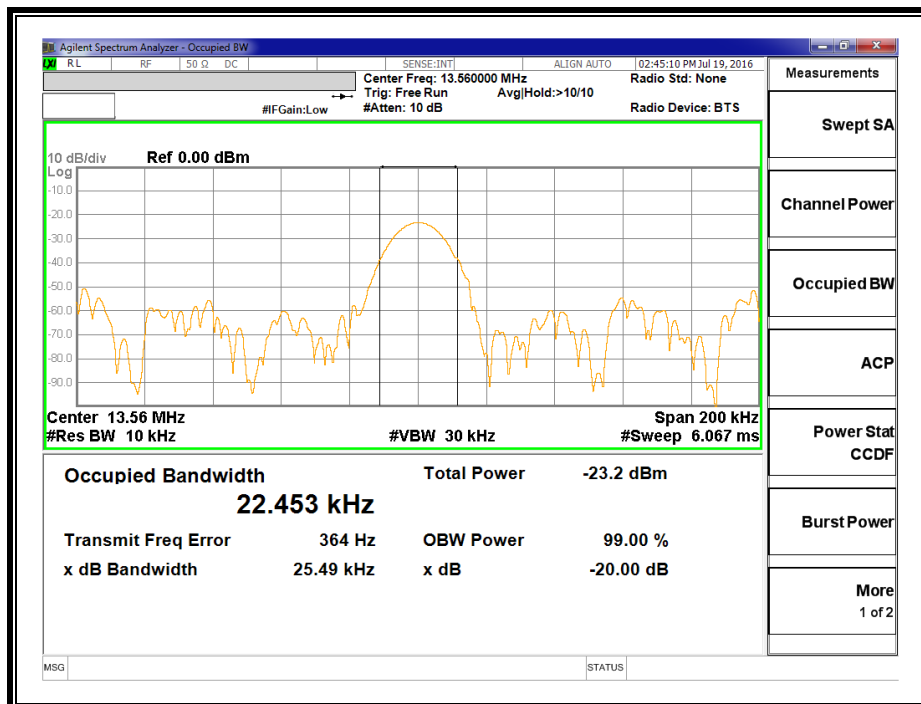
106Kbps



TYPE F, 424Kbps

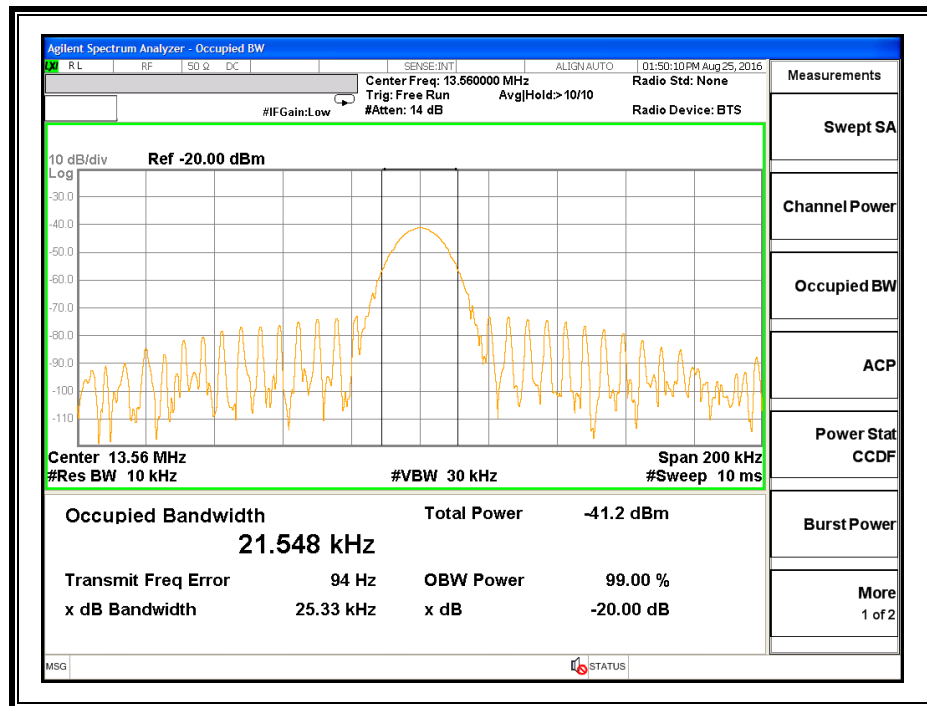


212Kbps

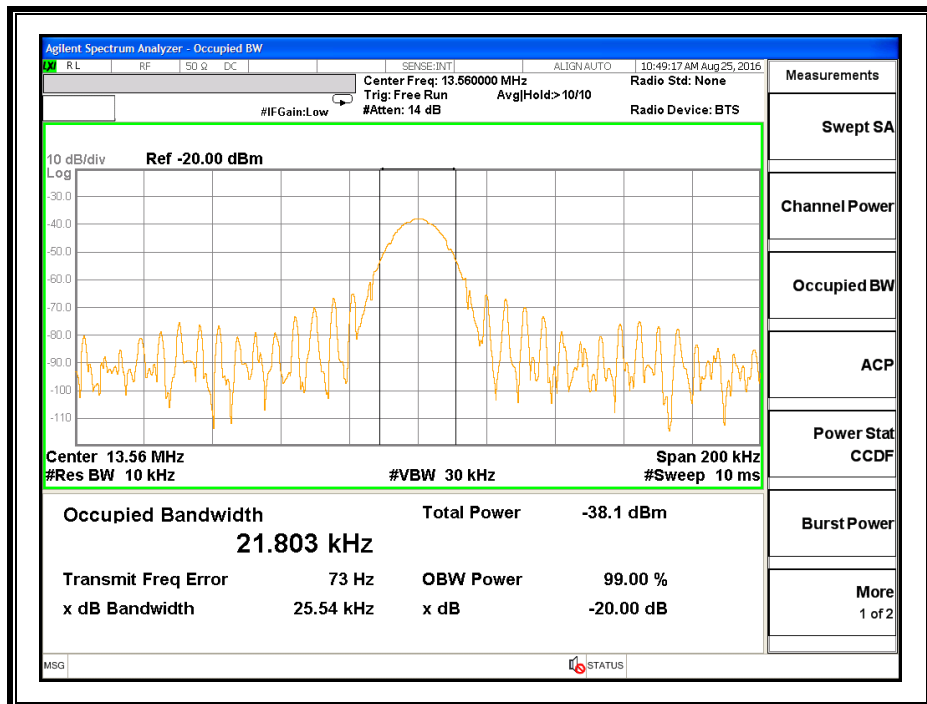


7.2. READER MODE

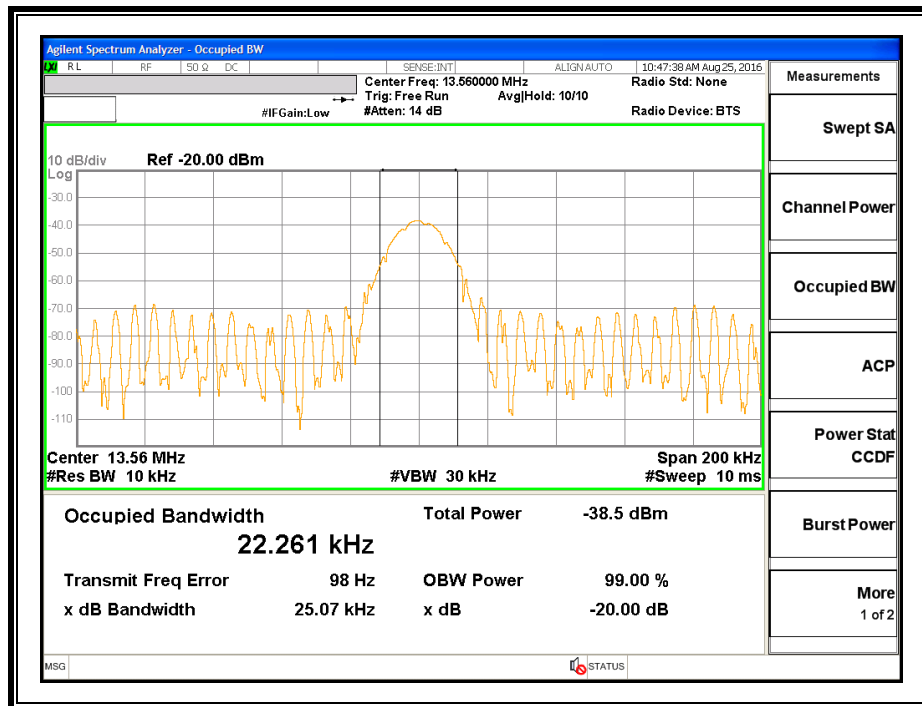
Type A, 848Kbps



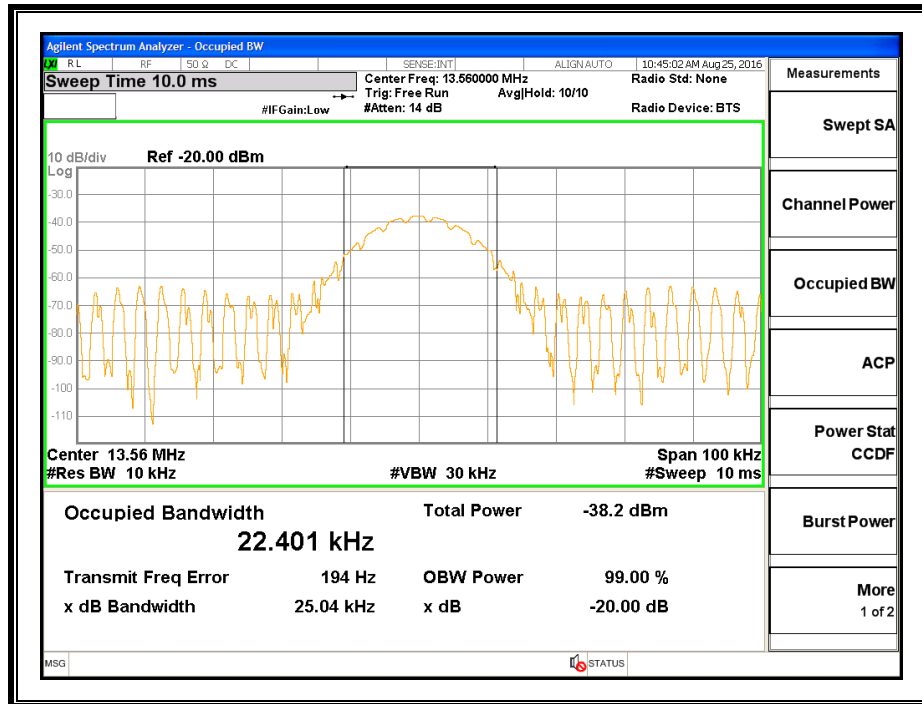
424Kbps



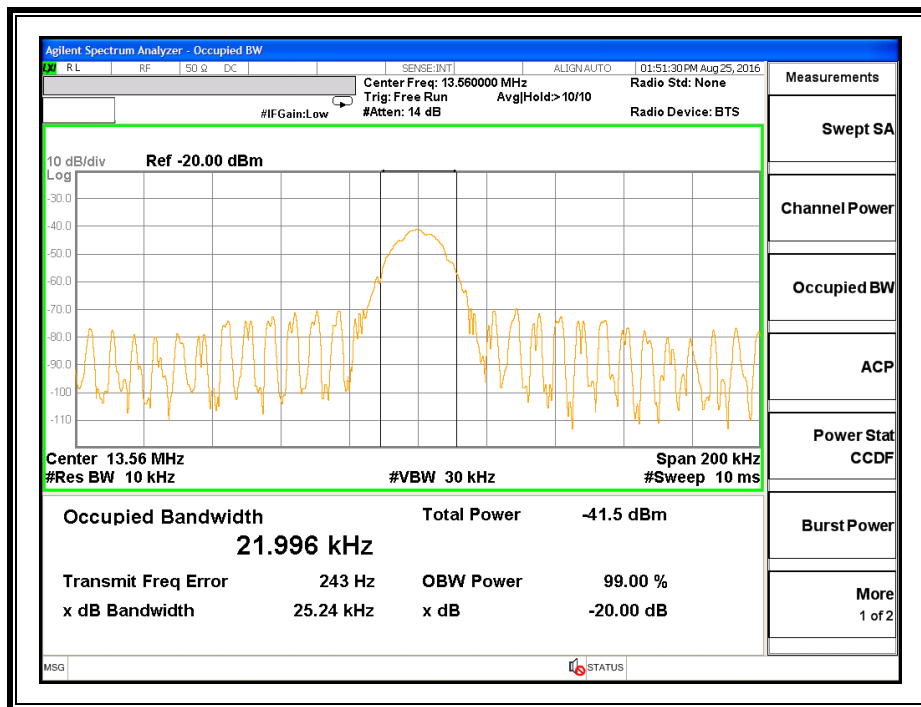
212Kbps



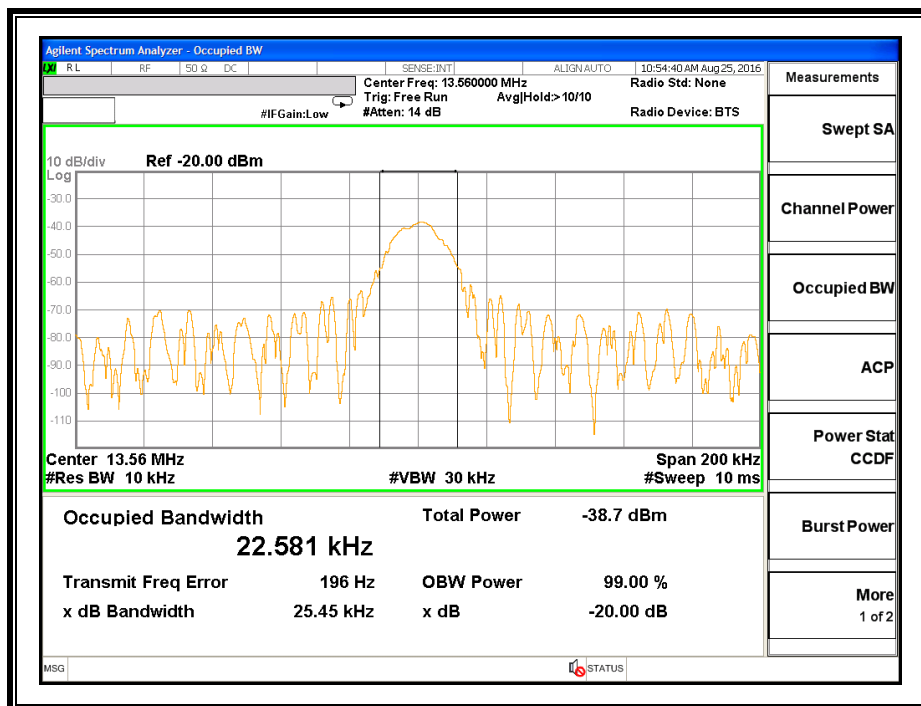
106Kbps



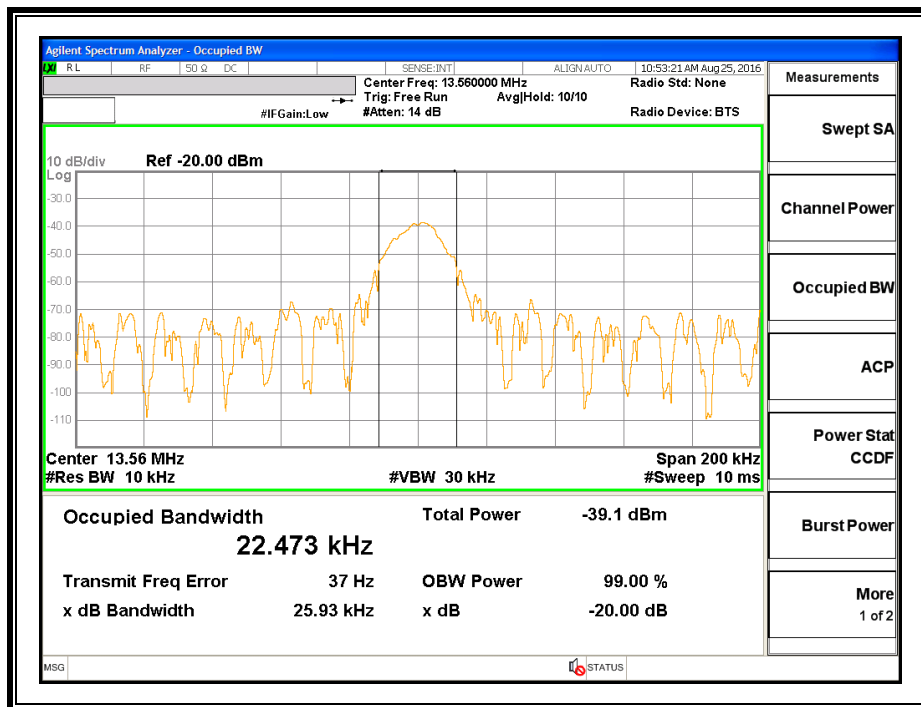
Type B, 848Kbps



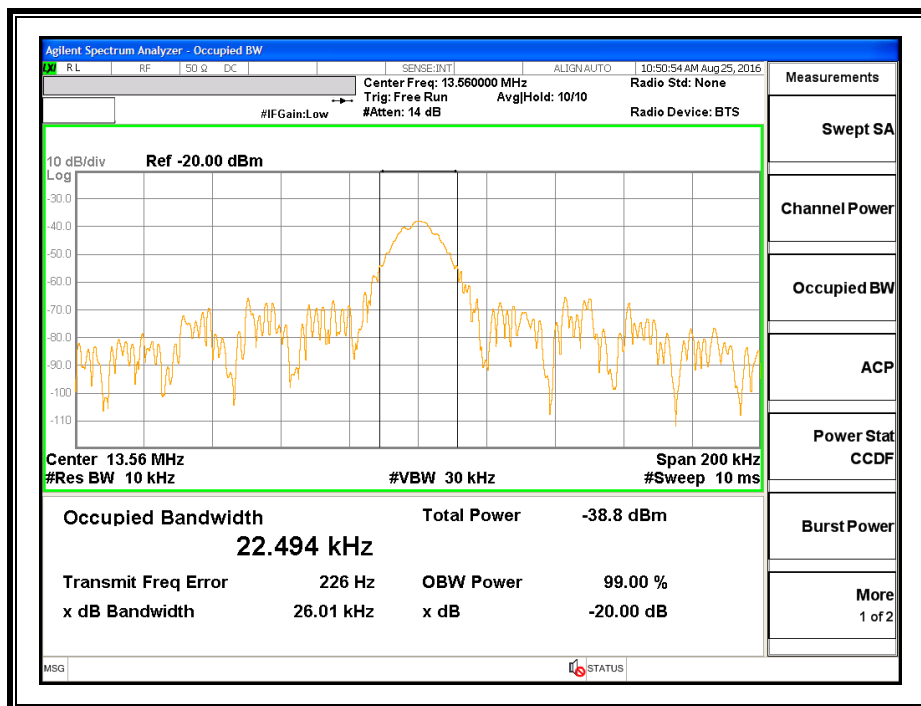
424Kbps



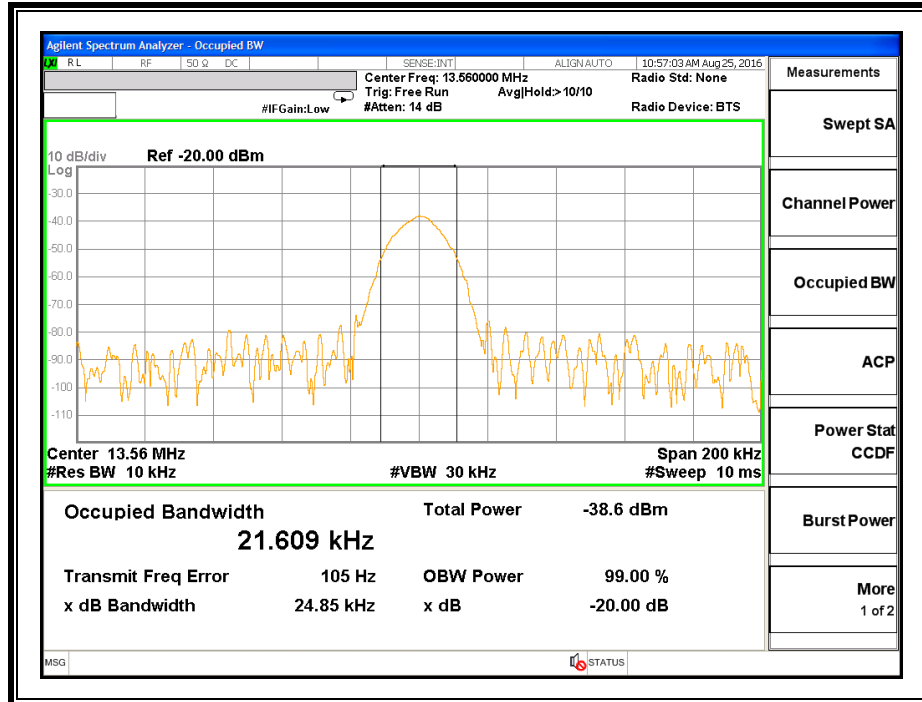
212Kbps



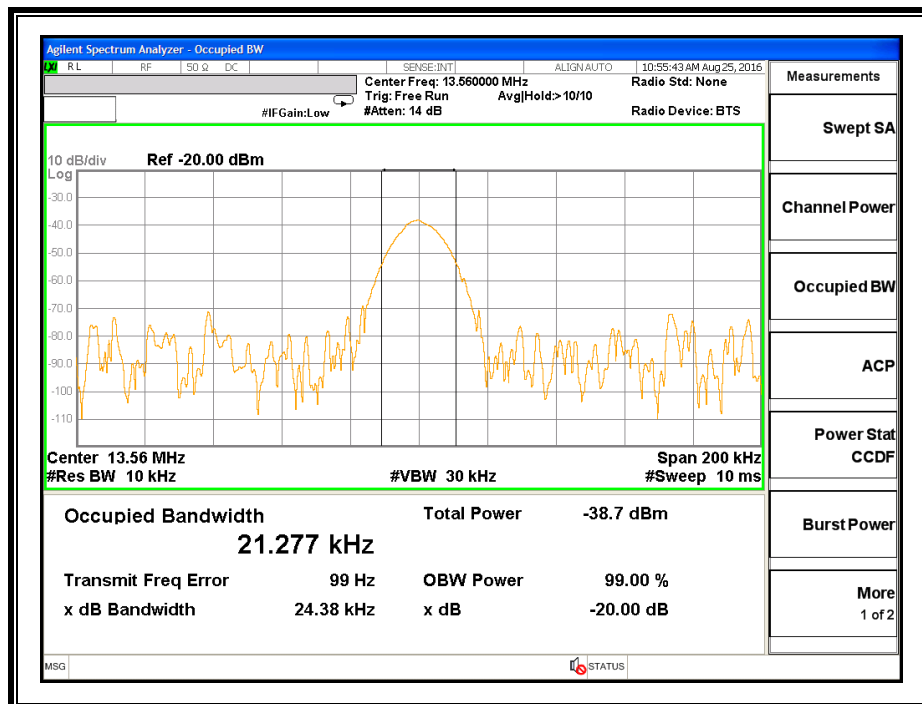
106Kbps



TYPE F, 424Kbps



212Kbps



8. RADIATED EMISSION TEST RESULTS

LIMITS AND PROCEDURE

LIMIT

§15.225

IC RSS-210, A2.6

IC RSS-GEN, Section 8.9 (Transmitter)

IC RSS-GEN, Section 7.1.2 (Receiver)

(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.

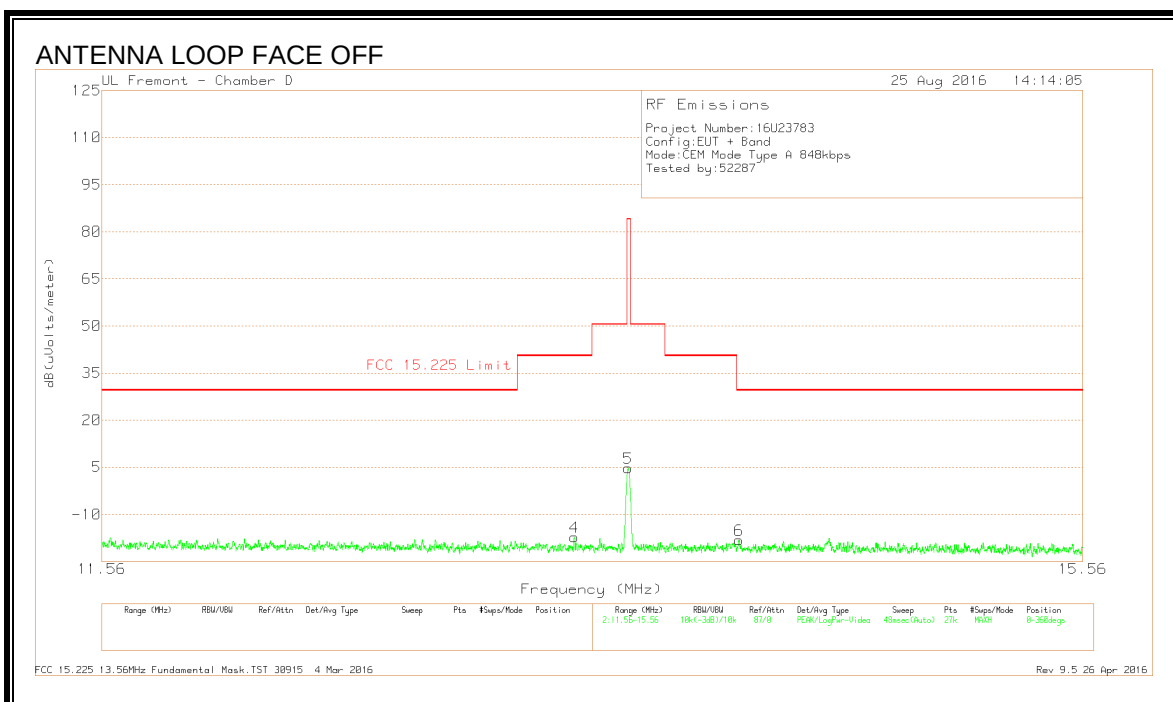
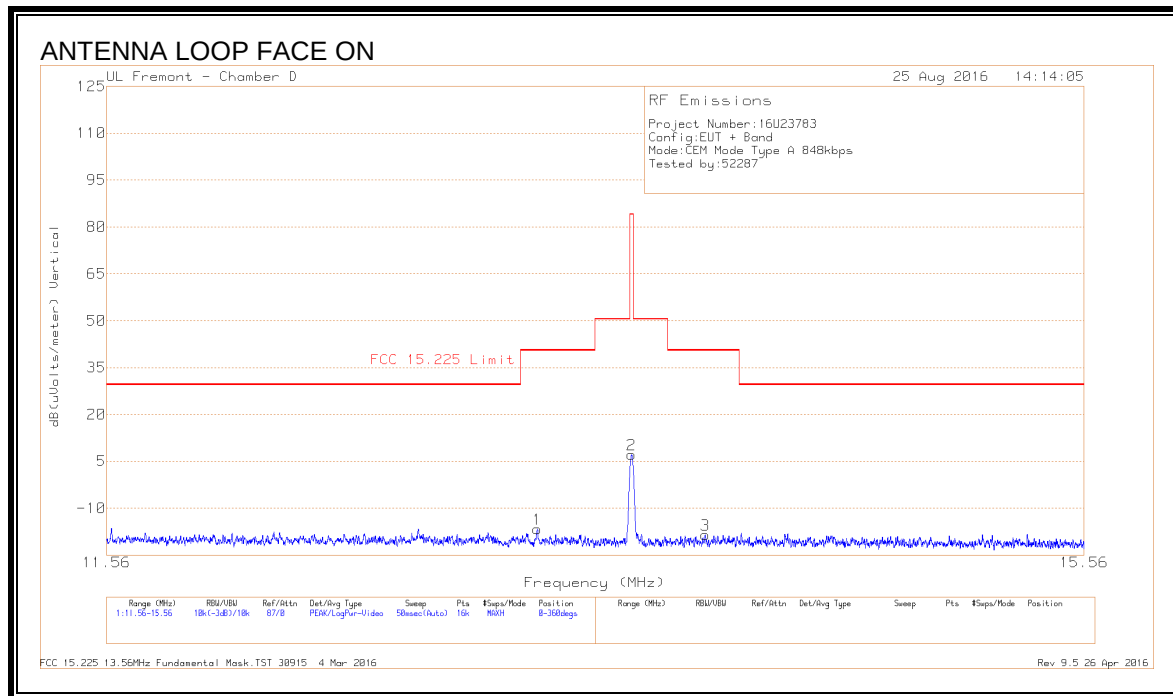
RESULTS

8.1. FUNDAMENTAL AND SPURIOUS EMISSIONS (0.15 – 30 MHz), EUT WITH AC/DC ADAPTER

8.1.1. CE MODE

TYPE A

848Kbps FUNDAMENTAL

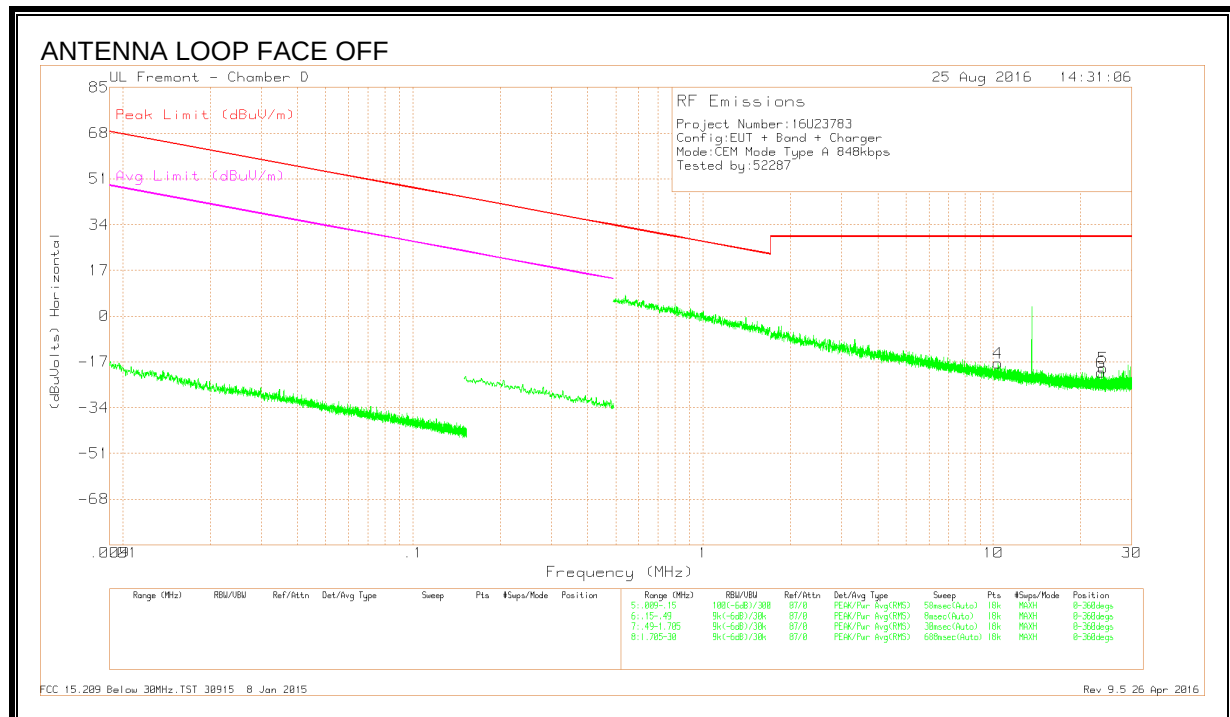
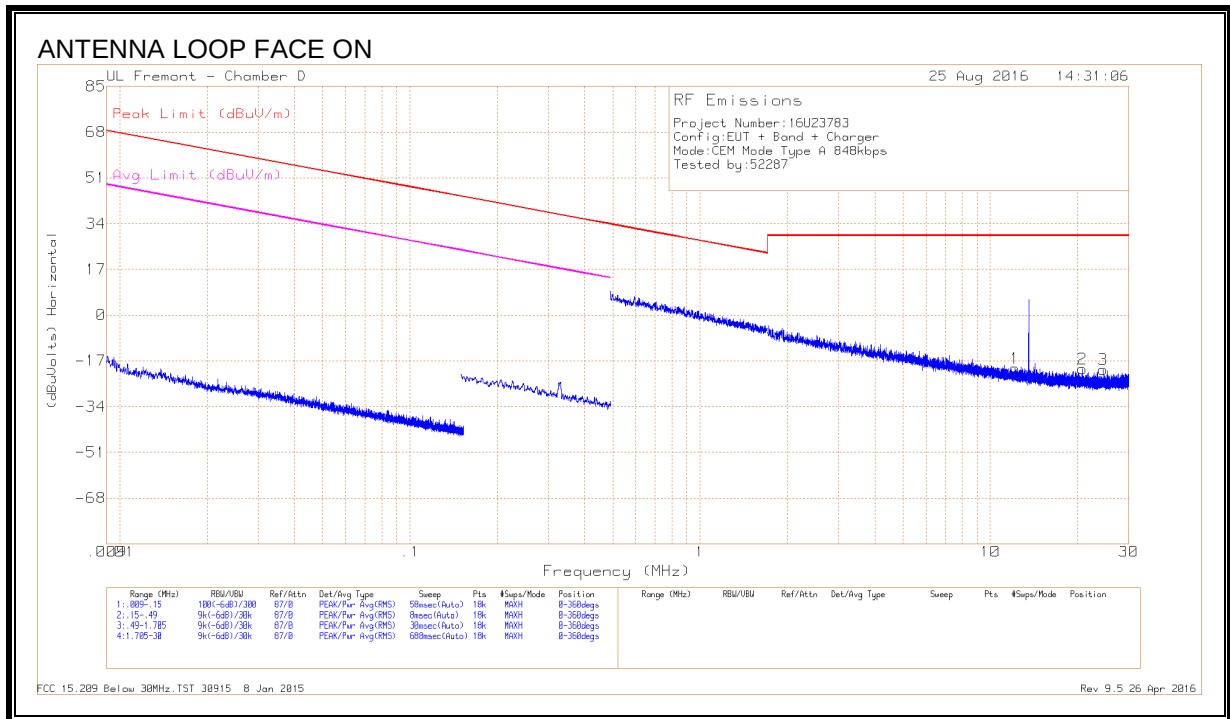


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Amp/Cbl (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
1	13.17763	12.17	Pk	10.7	.4	-40	-16.73	40.51	-57.24	0-360
4	13.33903	11.7	Pk	10.7	.4	-40	-17.2	40.51	-57.71	0-360
5	13.55837	33.67	Pk	10.6	.4	-40	4.67	84	-79.33	0-360
2	13.56063	36.08	Pk	10.6	.4	-40	7.08	84	-76.92	0-360
3	13.86763	10.38	Pk	10.6	.4	-40	-18.62	40.51	-59.13	0-360
6	14.0222	10.78	Pk	10.6	.4	-40	-18.22	29.54	-47.76	0-360

Pk - Peak detector

SPURIOUS EMISSION

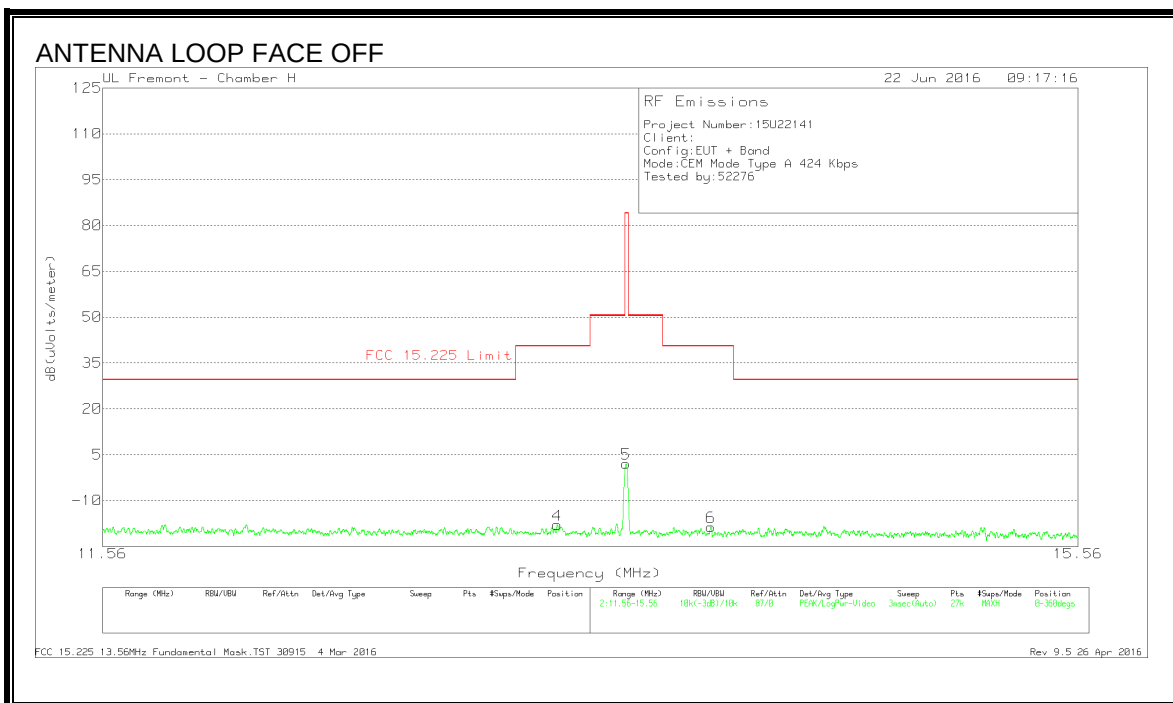
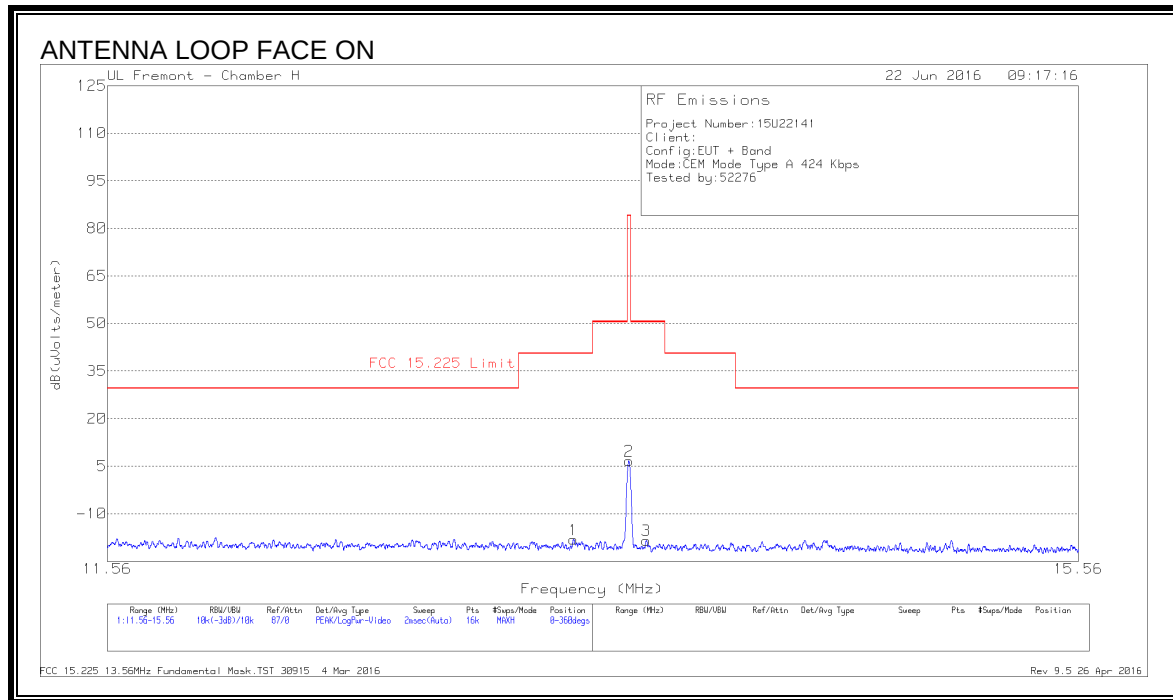


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Amp/Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	10.35572	11.12	Pk	11	.3	-40	-17.58	29.54	-47.12	-	-	0-360
1	12.14308	8.99	Pk	10.8	.4	-40	-19.81	29.54	-49.35	-	-	0-360
2	20.74664	9.74	Pk	9.7	.5	-40	-20.06	29.54	-49.6	-	-	0-360
6	23.51021	9.3	Pk	9.3	.6	-40	-20.8	29.54	-50.34	-	-	0-360
5	23.84033	10.84	Pk	9.3	.6	-40	-19.26	29.54	-48.8	-	-	0-360
3	24.4487	9.91	Pk	9.2	.6	-40	-20.29	29.54	-49.83	-	-	0-360

Pk - Peak detector

424Kbps FUNDAMENTAL

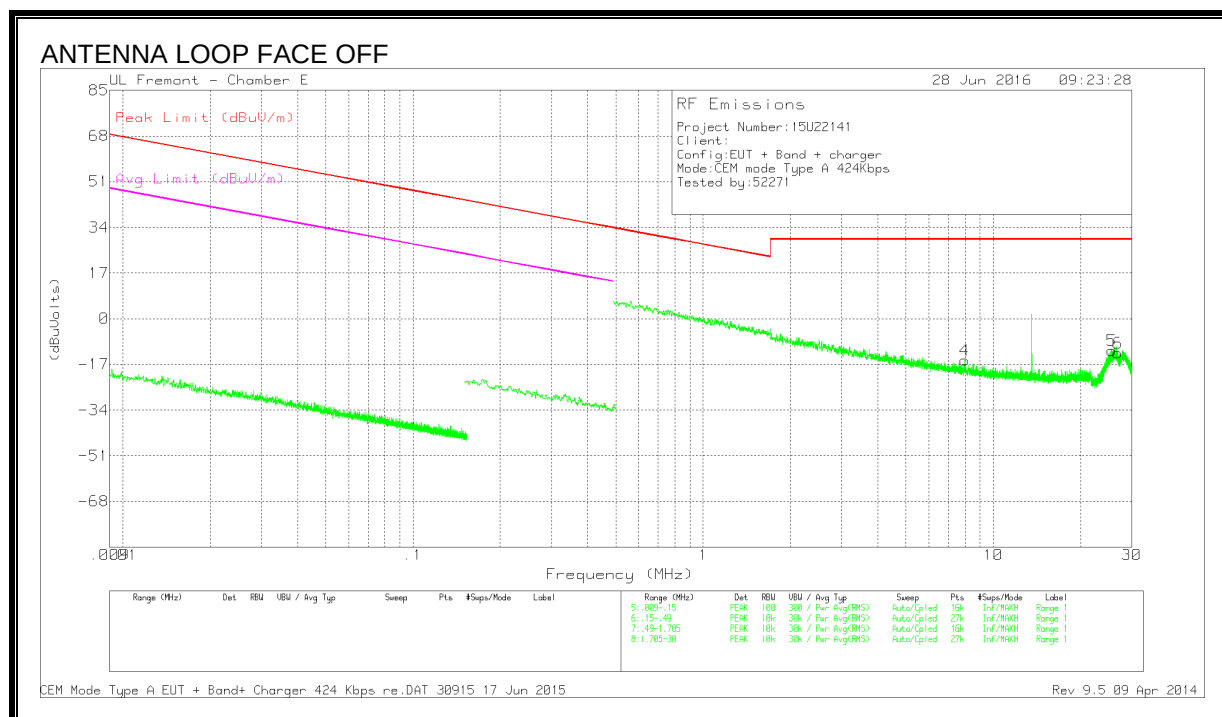
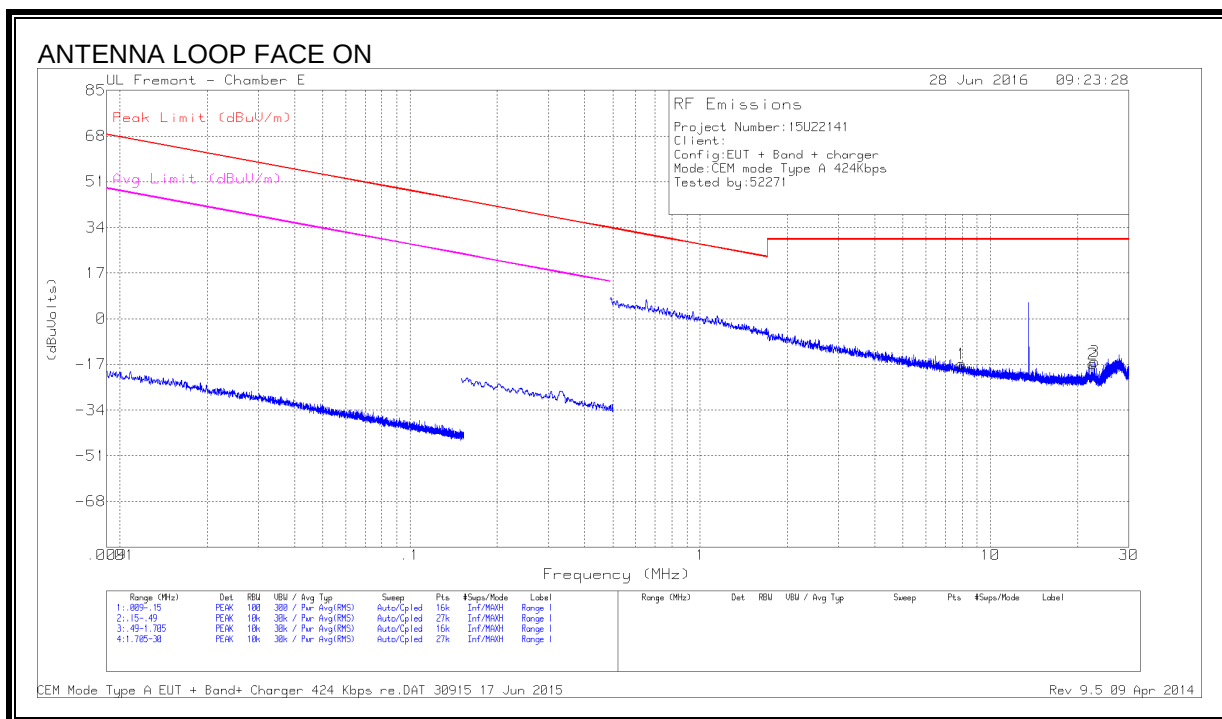


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
4	13.27724	10.72	Pk	10.7	.6	-40	-17.98	40.51	-58.49	0-360
1	13.33338	10.56	Pk	10.7	.6	-40	-18.14	40.51	-58.65	0-360
5	13.5583	30.88	Pk	10.6	.6	-40	2.08	84	-81.92	0-360
2	13.56038	35.47	Pk	10.6	.6	-40	6.67	84	-77.33	0-360
3	13.63388	10.39	Pk	10.6	.6	-40	-18.41	50.5	-68.91	0-360
6	13.91327	10.27	Pk	10.6	.5	-40	-18.63	40.51	-59.14	0-360

Pk - Peak detector

SPURIOUS EMISSION

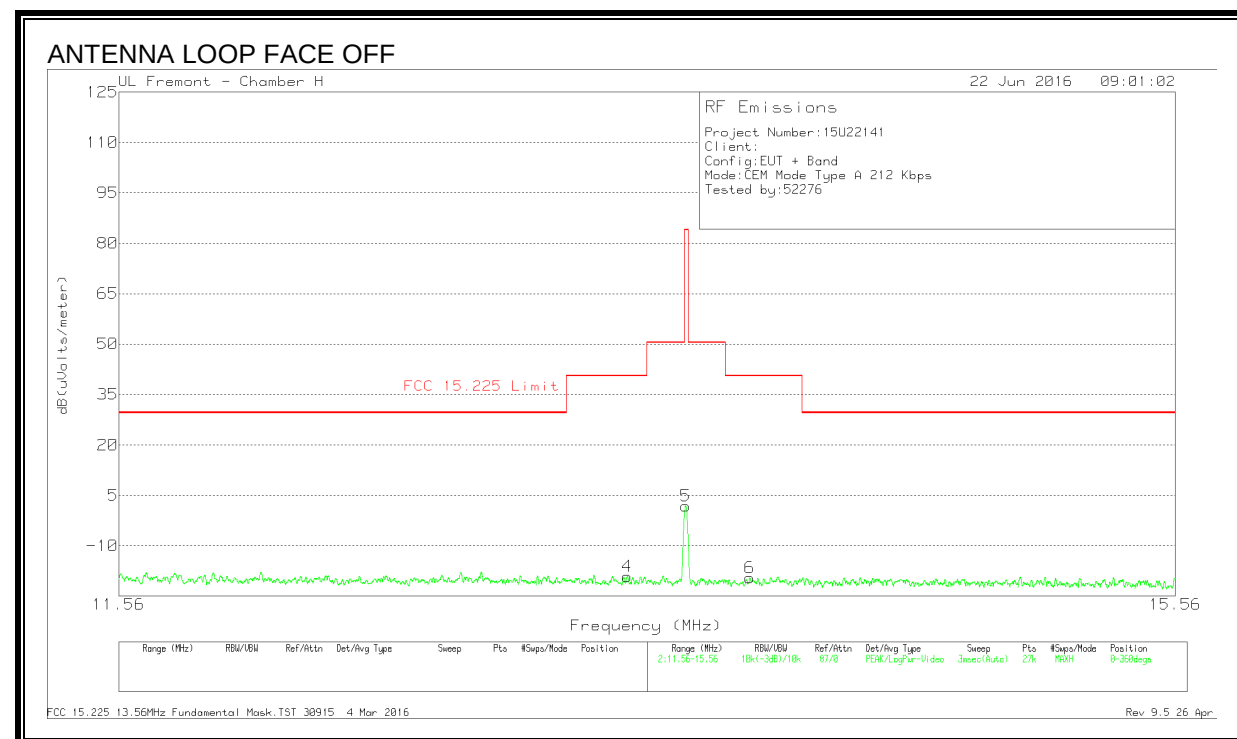
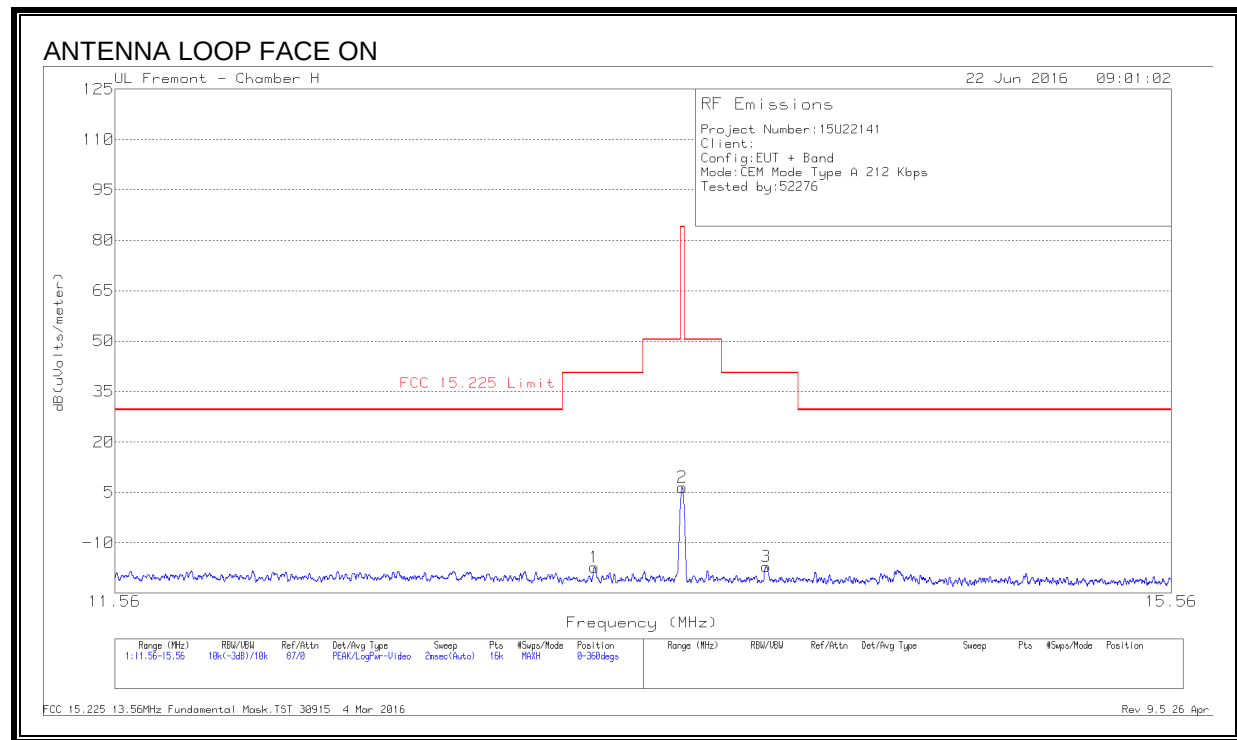


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	7.95422	13.28	PK	10.8	.4	-40	-15.52	29.54	-45.06	-	-	0-360
1	7.97833	11.94	PK	10.8	.4	-40	-16.86	29.54	-46.4	-	-	0-360
2	22.5361	12.93	PK	9.6	.7	-40	-16.77	29.54	-46.31	-	-	0-360
3	22.85678	13.73	PK	9.6	.7	-40	-15.97	29.54	-45.51	-	-	0-360
5	25.60464	18.39	PK	9.1	.7	-40	-11.81	29.54	-41.35	-	-	0-360
6	26.8591	17.64	PK	8.8	.8	-40	-12.76	29.54	-42.3	-	-	0-360

PK - Peak detector

212Kbps FUNDAMENTAL

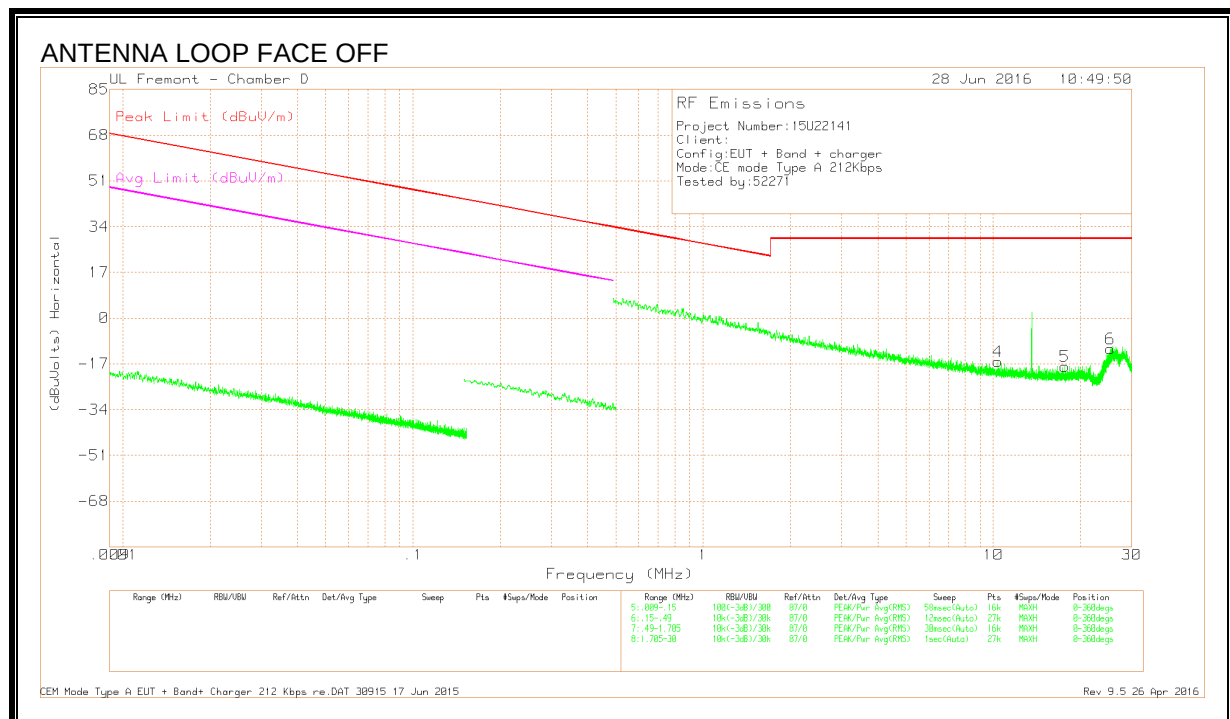
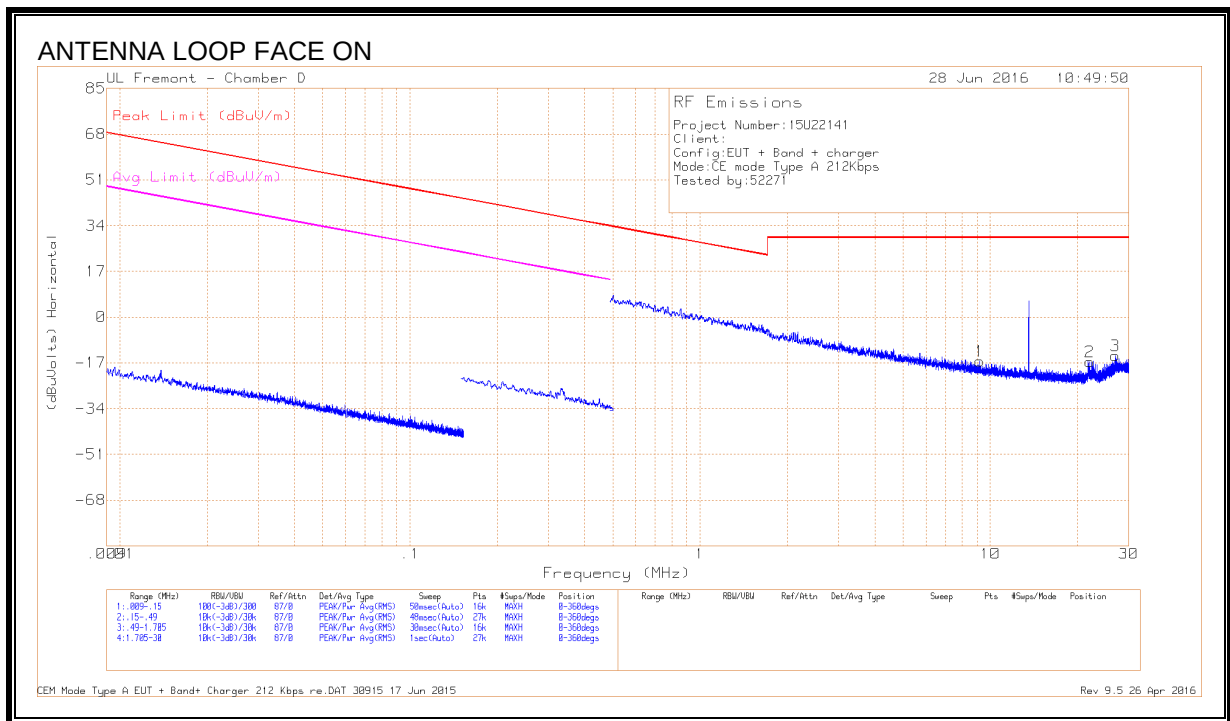


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
1	13.23038	11.51	Pk	10.7	.6	-40	-17.19	40.51	-57.7	0-360
4	13.33844	9.66	Pk	10.7	.6	-40	-19.04	40.51	-59.55	0-360
5	13.55837	30.72	Pk	10.6	.6	-40	1.92	84	-82.08	0-360
2	13.56013	35.34	Pk	10.6	.6	-40	6.54	84	-77.46	0-360
6	13.80553	9.39	Pk	10.6	.5	-40	-19.51	40.51	-60.02	0-360
3	13.88463	11.85	Pk	10.6	.5	-40	-17.05	40.51	-57.56	0-360

Pk - Peak detector

SPURIOUS EMISSION

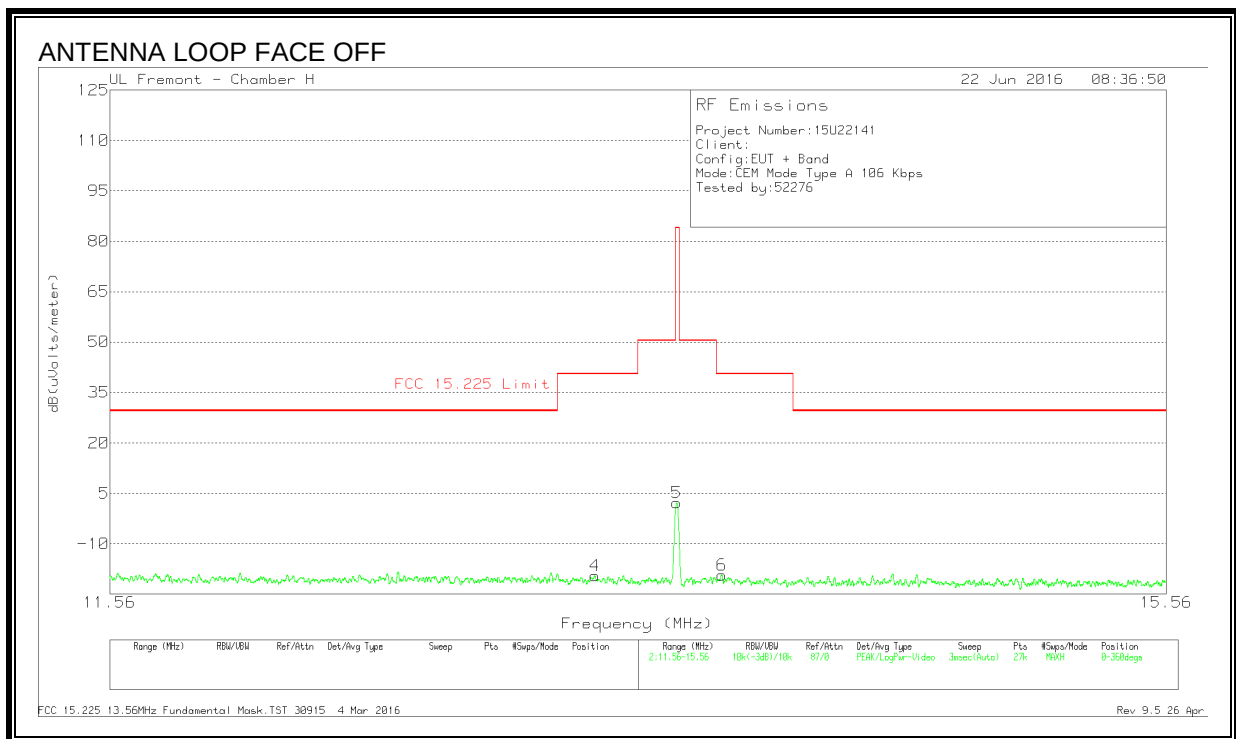
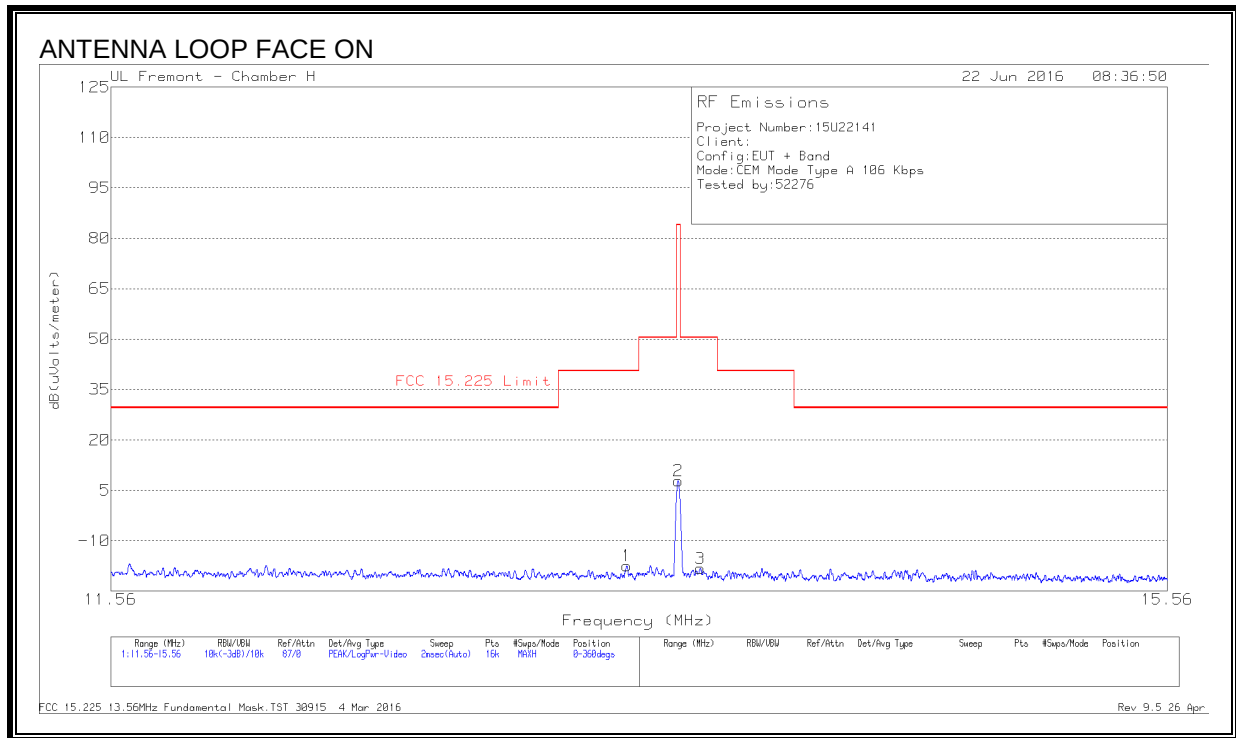


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	9.17462	12.32	Pk	10.8	.5	-40	-16.38	29.54	-45.92	-	-	0-360
4	10.36358	12.48	Pk	10.8	.5	-40	-16.22	29.54	-45.76	-	-	0-360
5	17.63617	11.2	Pk	10.3	.6	-40	-17.9	29.54	-47.44	-	-	0-360
2	22.04406	13.01	Pk	9.7	.7	-40	-16.59	29.54	-46.13	-	-	0-360
6	25.34212	18.87	Pk	9.1	.7	-40	-11.33	29.54	-40.87	-	-	0-360
3	26.96756	16.17	Pk	8.7	.8	-40	-14.33	29.54	-43.87	-	-	0-360

Pk - Peak detector

106Kbps FUNDAMENTAL

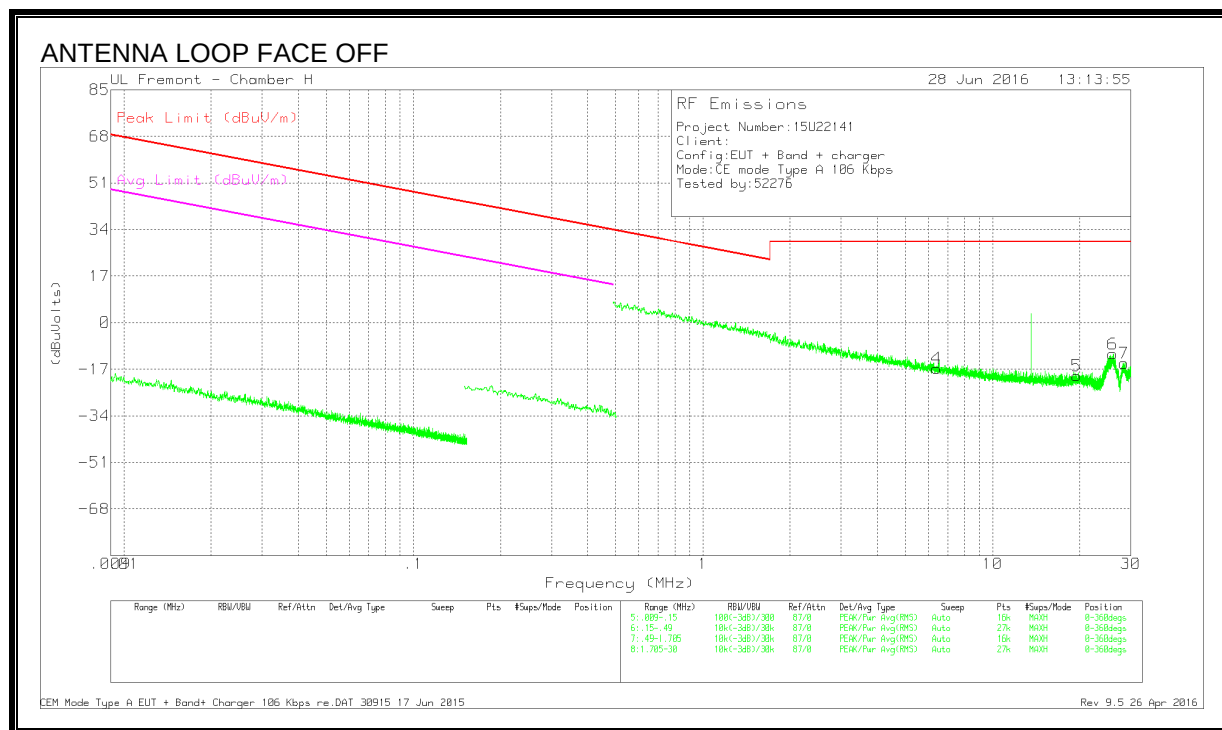
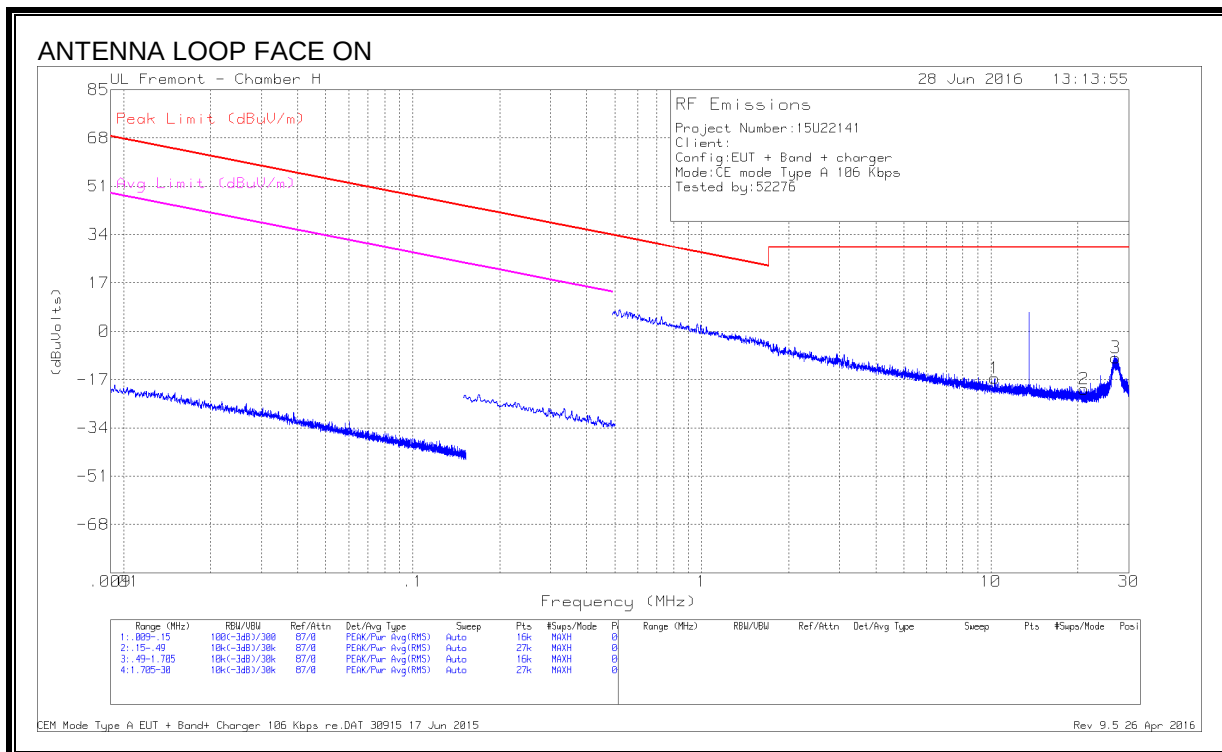


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
4	13.24979	9.26	Pk	10.7	.6	-40	-19.44	40.51	-59.95	0-360
1	13.36563	11.21	Pk	10.7	.6	-40	-17.49	40.51	-58	0-360
5	13.55837	31.01	Pk	10.6	.6	-40	2.21	84	-81.79	0-360
2	13.56	36.71	Pk	10.6	.6	-40	7.91	84	-76.09	0-360
3	13.64488	10.54	Pk	10.6	.6	-40	-18.26	50.5	-68.76	0-360
6	13.73138	9.54	Pk	10.6	.6	-40	-19.26	40.51	-59.77	0-360

Pk - Peak detector

SPURIOUS EMISSION



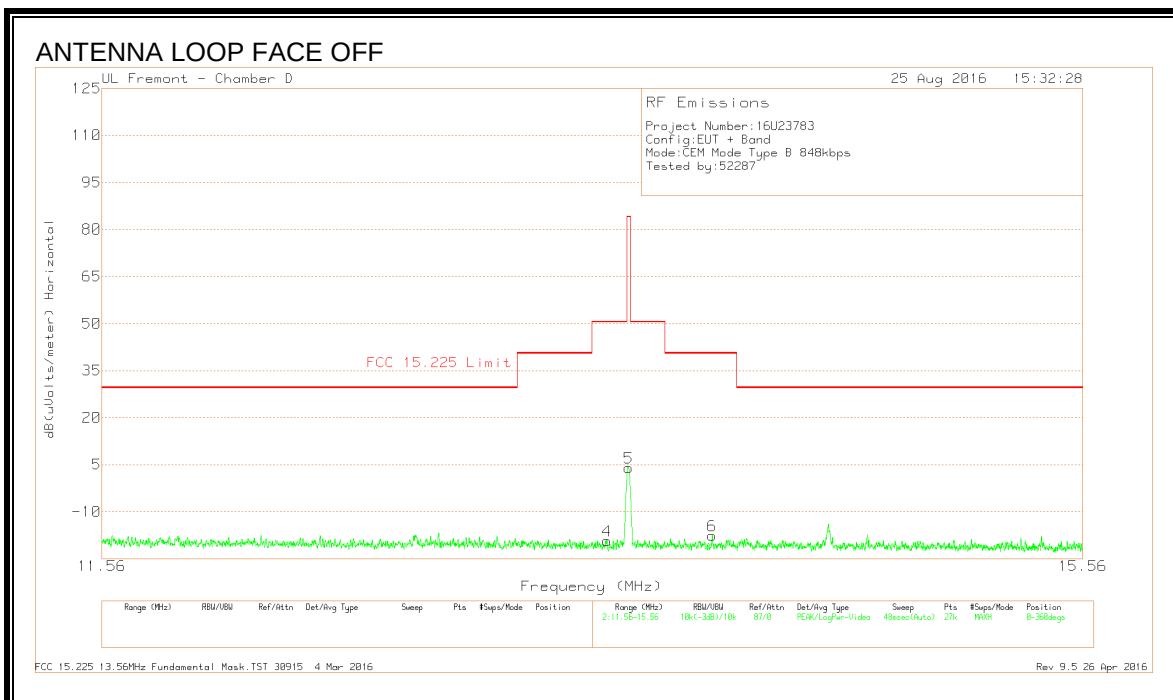
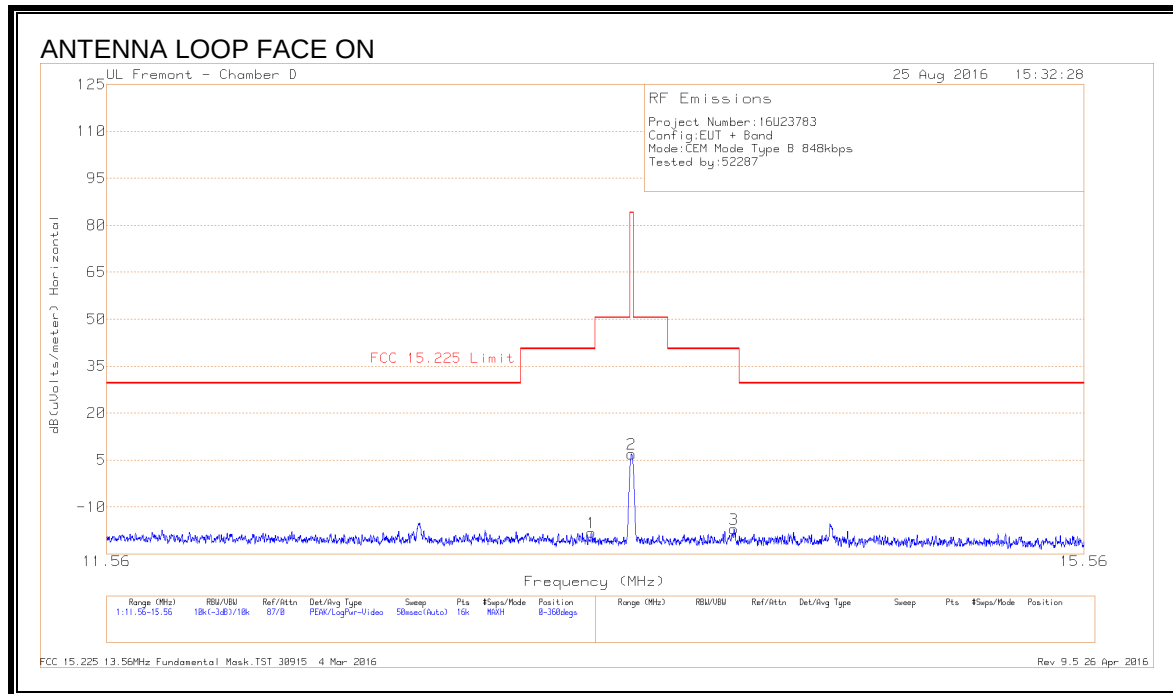
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	6.40947	12.03	Pk	10.9	.4	-40	-16.67	29.54	-46.21	-	-	0-360
1	10.30856	12.16	Pk	10.8	.5	-40	-16.54	29.54	-46.08	-	-	0-360
5	19.48222	9.74	Pk	10.2	.7	-40	-19.36	29.54	-48.9	-	-	0-360
2	21.01859	9.02	Pk	9.9	.7	-40	-20.38	29.54	-49.92	-	-	0-360
6	26.00864	18.77	Pk	9	.8	-40	-11.43	29.54	-40.97	-	-	0-360
3	27.07498	21.16	Pk	8.7	.8	-40	-9.34	29.54	-38.88	-	-	0-360
7	28.42533	15.99	Pk	8.4	.8	-40	-14.81	29.54	-44.35	-	-	0-360

Pk - Peak detector

TYPE B

848Kbps FUNDAMENTAL

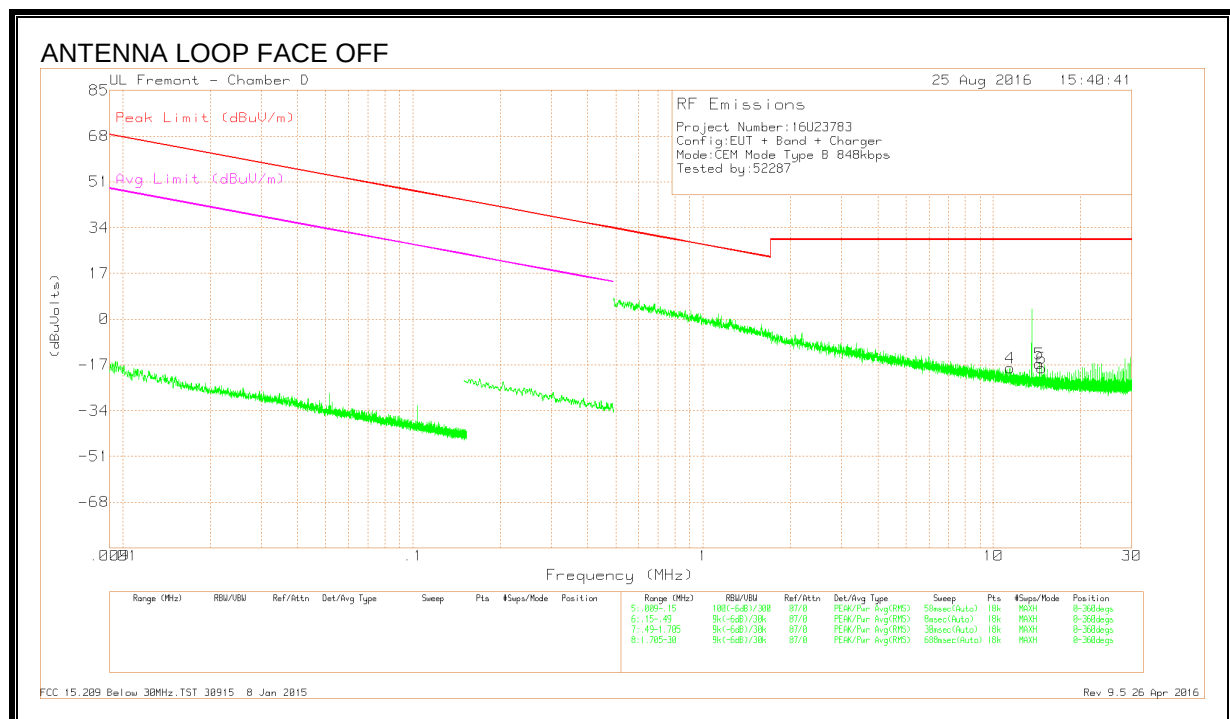
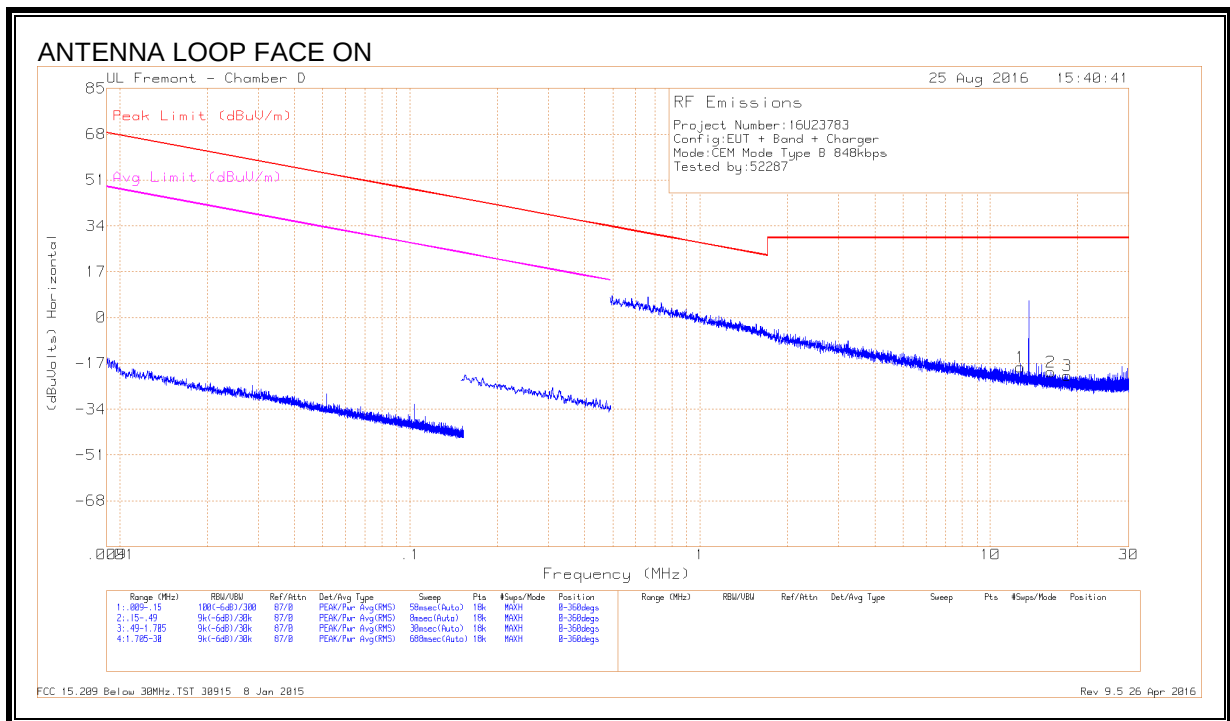


DATA

Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Amp/Cbl (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/m eter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
1	13.396	10.73	Pk	10.7	.4	-40	-18.17	40.51	-58.68	0-360
4	13.4729	9.61	Pk	10.7	.4	-40	-19.29	50.5	-69.79	0-360
2	13.56	35.89	Pk	10.6	.4	-40	6.89	84	-77.11	0-360
5	13.56052	33.04	Pk	10.6	.4	-40	4.04	84	-79.96	0-360
6	13.90854	11.4	Pk	10.6	.4	-40	-17.6	40.51	-58.11	0-360
3	13.98938	11.97	Pk	10.6	.4	-40	-17.03	40.51	-57.54	0-360

Pk - Peak detector

SPURIOUS EMISSION

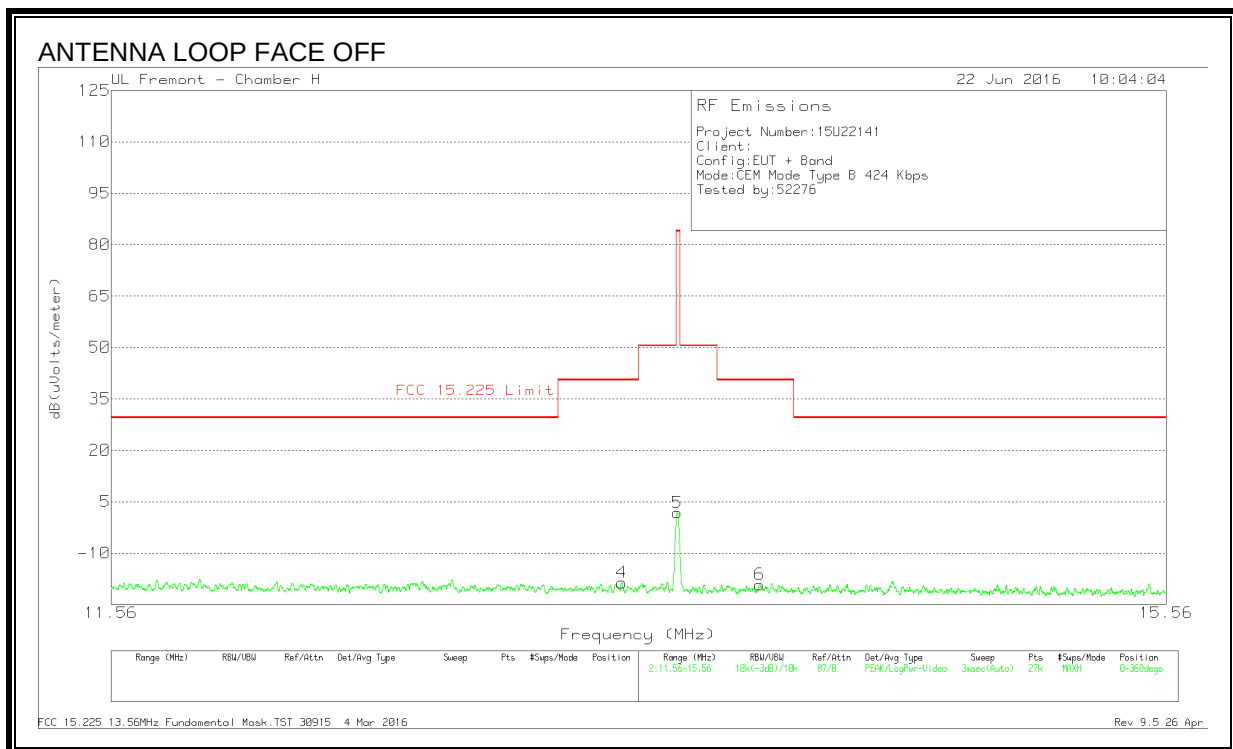
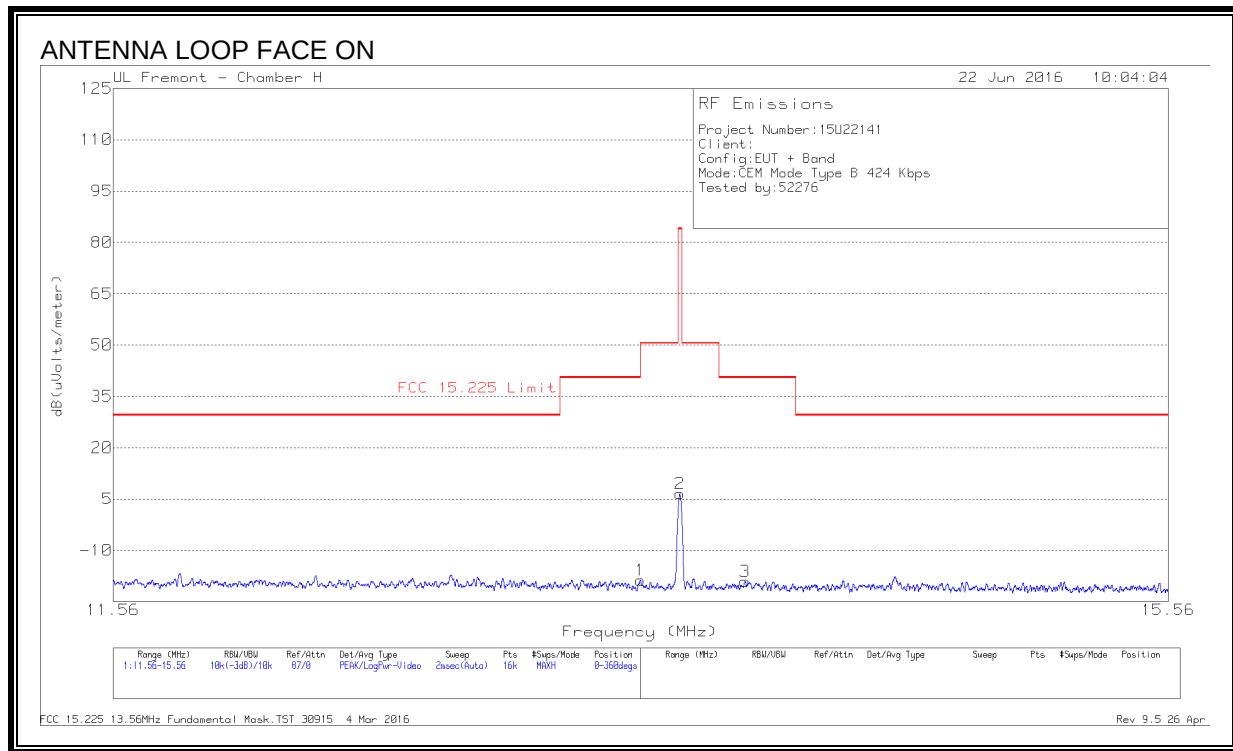


DATA

Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	Loop Antenna (dB/m)	Amp/Cbl (dB)	Dist Corr 30m	Corrected Reading (dBUVolts)	Peak Limit (dBUV/m)	Margin (dB)	Avg Limit (dBUV/m)	Margin (dB)	Azimuth (Degs)
4	11.42939	10.64	Pk	10.9	.3	-40	-18.16	29.54	-47.7	-	-	0-360
1	12.71529	10.44	Pk	10.7	.4	-40	-18.46	29.54	-48	-	-	0-360
5	14.40676	12.45	Pk	10.6	.4	-40	-16.55	29.54	-46.09	-	-	0-360
6	14.69601	11.01	Pk	10.5	.4	-40	-18.09	29.54	-47.63	-	-	0-360
2	16.14068	9.16	Pk	10.3	.4	-40	-20.14	29.54	-49.68	-	-	0-360
3	18.4075	7.93	Pk	10	.5	-40	-21.57	29.54	-51.11	-	-	0-360

Pk - Peak detector

424Kbps FUNDAMENTAL

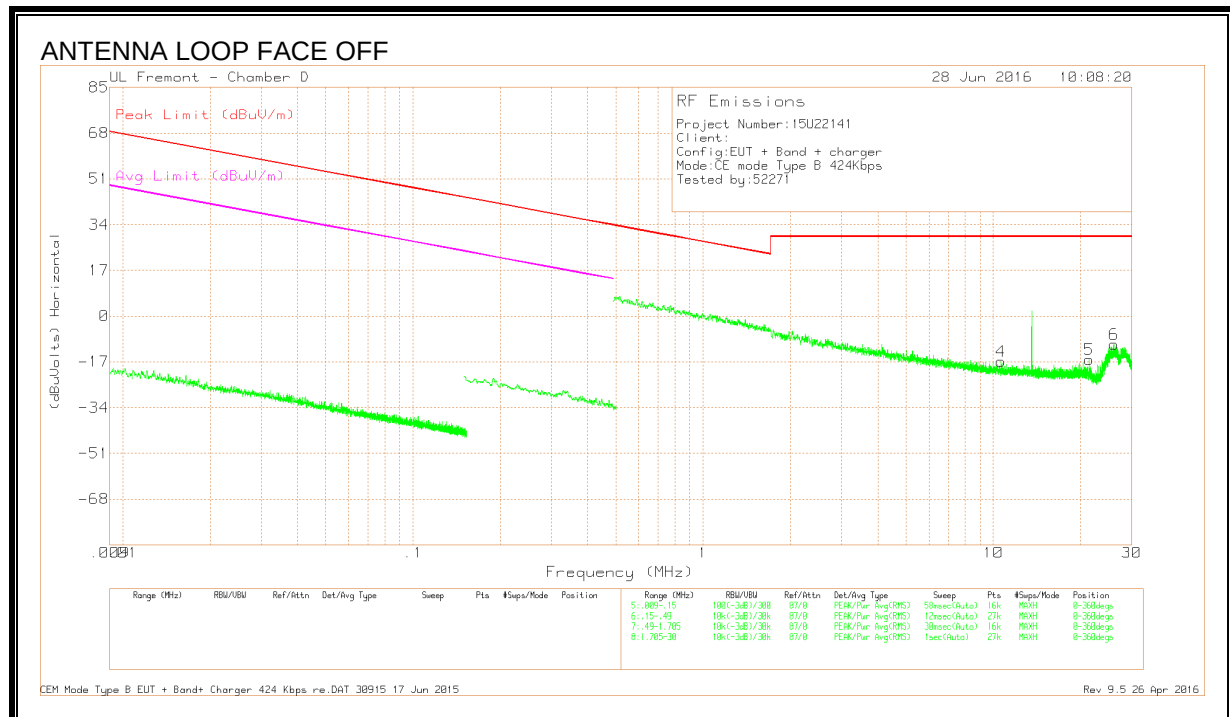
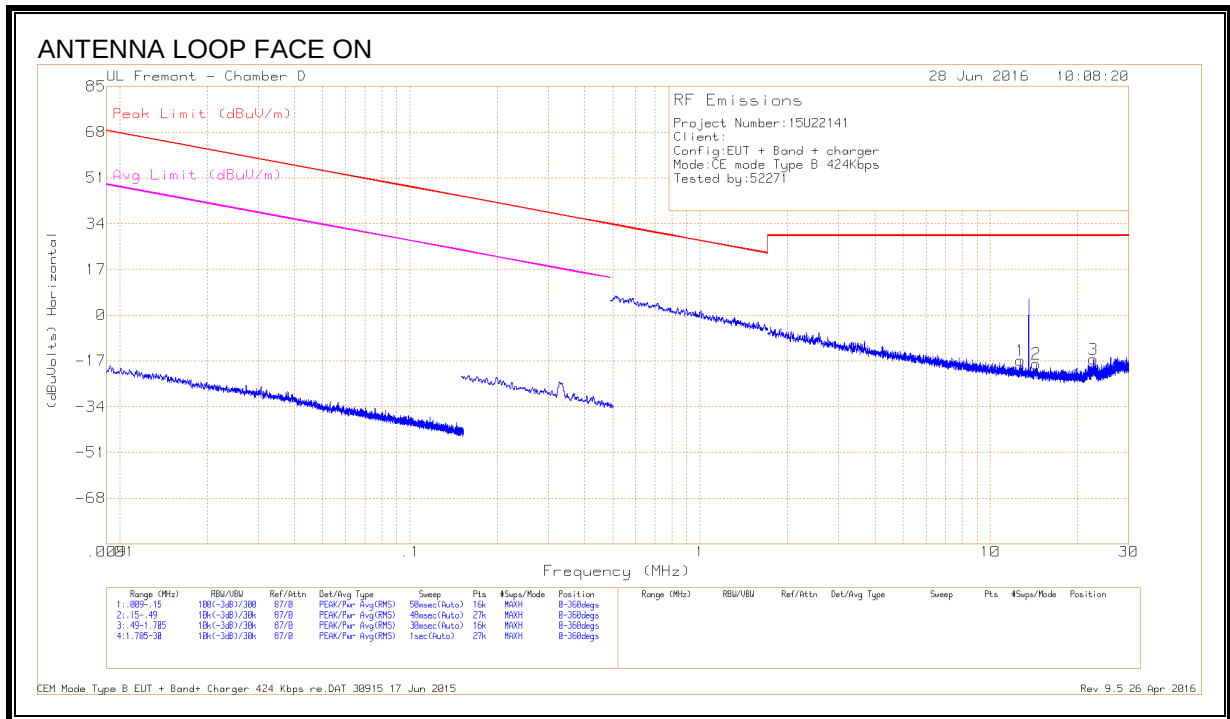


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
4	13.34806	10.09	Pk	10.7	.6	-40	-18.61	40.51	-59.12	0-360
1	13.41063	9.98	Pk	10.7	.6	-40	-18.72	50.5	-69.22	0-360
5	13.55837	30.56	Pk	10.6	.6	-40	1.76	84	-82.24	0-360
2	13.56	35.36	Pk	10.6	.6	-40	6.56	84	-77.44	0-360
3	13.81163	9.8	Pk	10.6	.5	-40	-19.1	40.51	-59.61	0-360
6	13.87672	9.72	Pk	10.6	.5	-40	-19.18	40.51	-59.69	0-360

Pk - Peak detector

SPURIOUS EMISSION

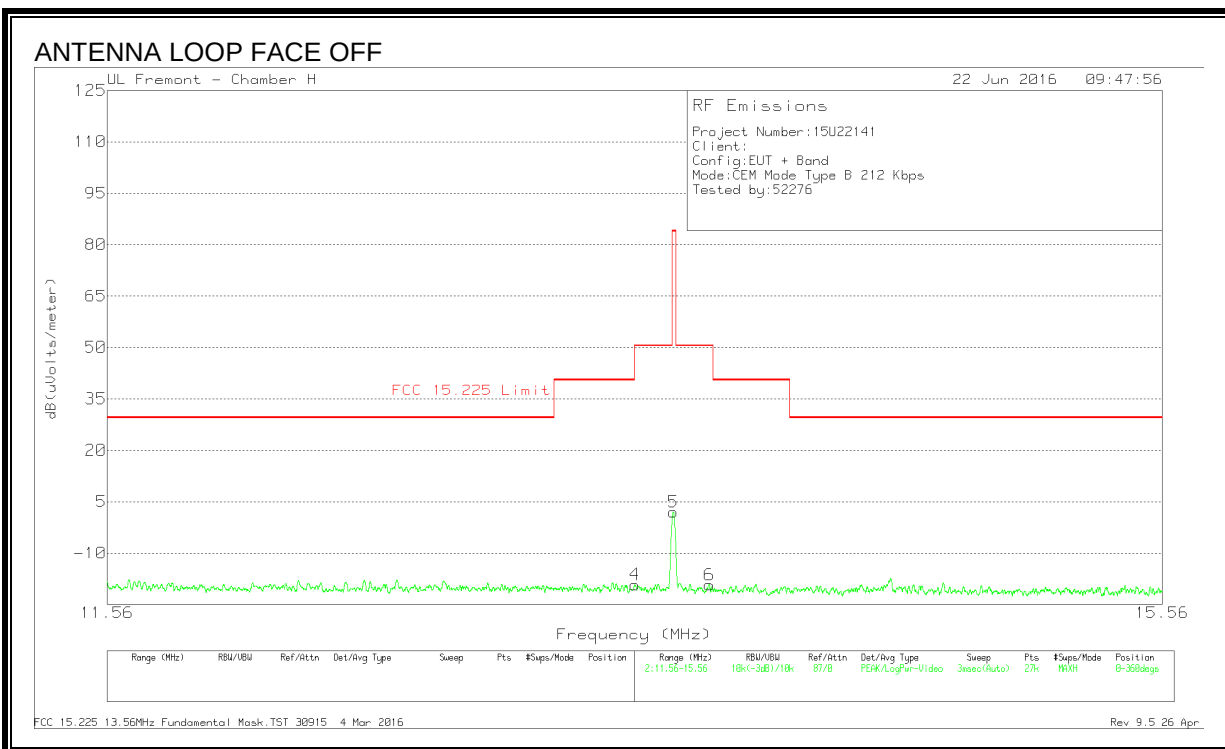
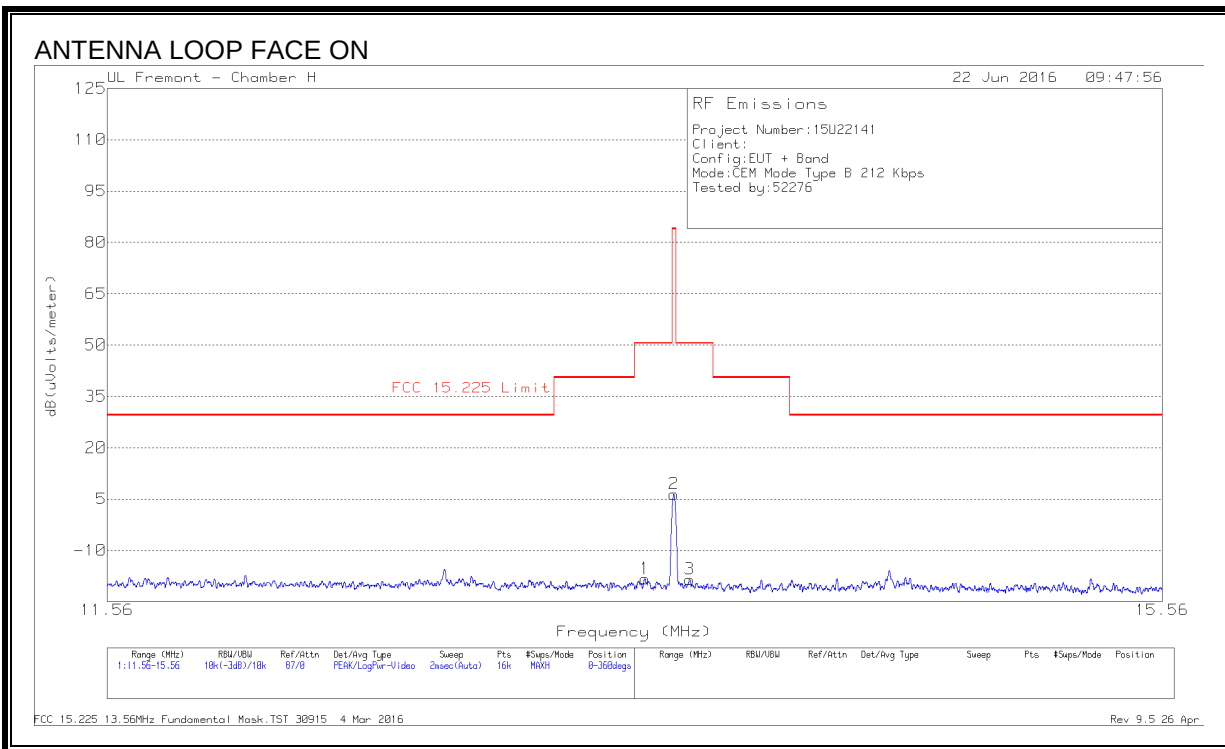


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	10.60986	11.86	Pk	10.8	.5	-40	-16.84	29.54	-46.38	-	-	0-360
1	12.71267	11.85	Pk	10.7	.6	-40	-16.85	29.54	-46.39	-	-	0-360
2	14.40676	10.83	Pk	10.6	.5	-40	-18.07	29.54	-47.61	-	-	0-360
5	21.39168	13.26	Pk	9.8	.7	-40	-16.24	29.54	-45.78	-	-	0-360
3	22.66186	13.37	Pk	9.6	.7	-40	-16.33	29.54	-45.87	-	-	0-360
6	26.11187	19.9	Pk	8.9	.8	-40	-10.4	29.54	-39.94	-	-	0-360

Pk - Peak detector

212Kbps FUNDAMENTAL

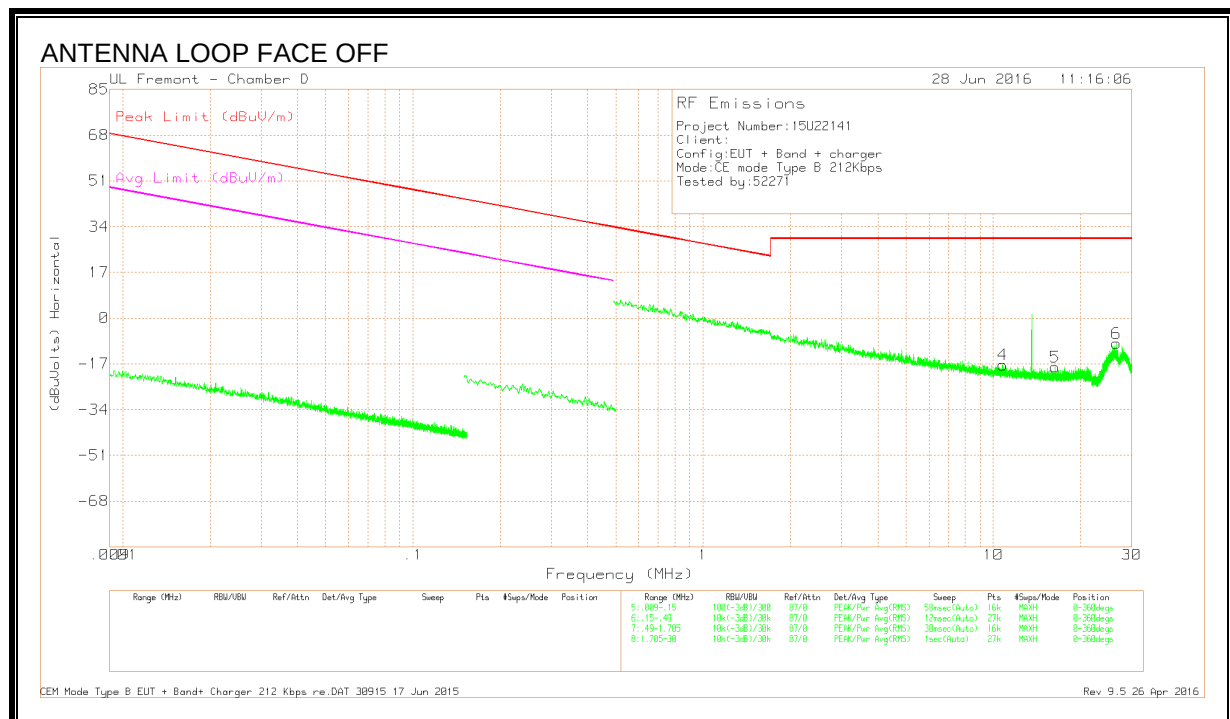
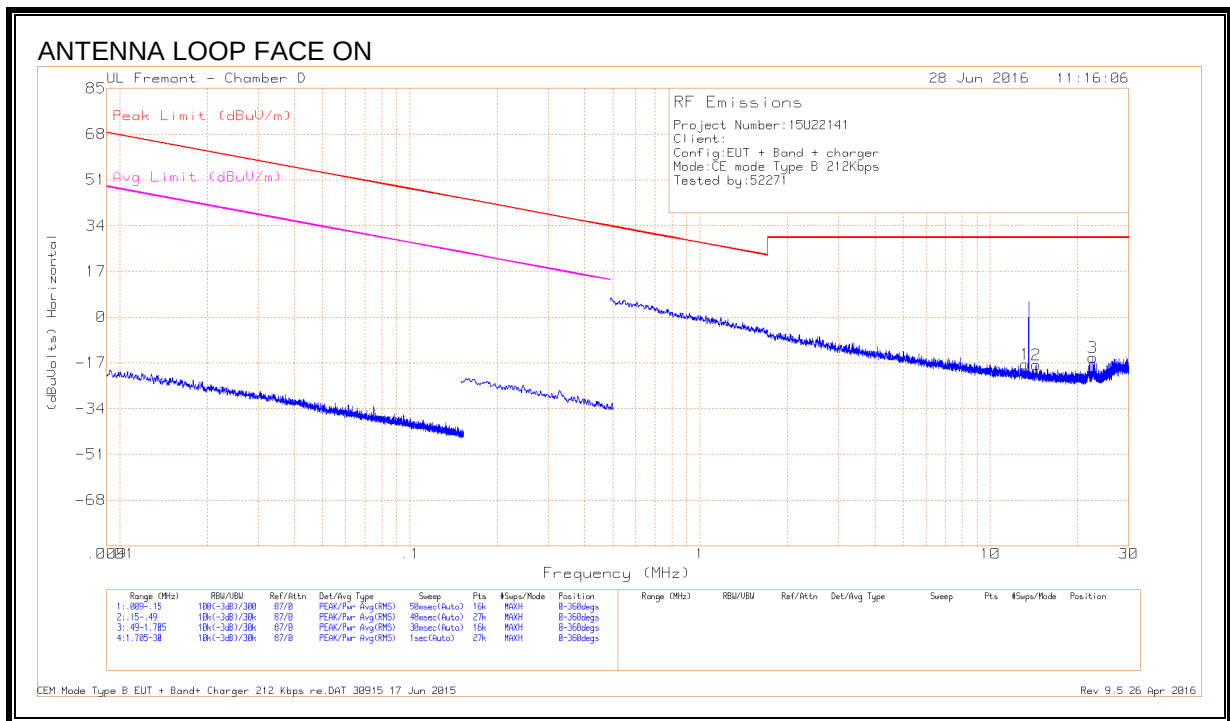


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
4	13.41229	9.51	Pk	10.7	.6	-40	-19.19	50.5	-69.69	0-360
1	13.45038	10.4	Pk	10.7	.6	-40	-18.3	50.5	-68.8	0-360
5	13.55793	30.81	Pk	10.6	.6	-40	2.01	84	-81.99	0-360
2	13.56038	35.29	Pk	10.6	.6	-40	6.49	84	-77.51	0-360
3	13.62063	10.36	Pk	10.6	.6	-40	-18.44	50.5	-68.94	0-360
6	13.69697	9.52	Pk	10.6	.6	-40	-19.28	50.5	-69.78	0-360

Pk - Peak detector

SPURIOUS EMISSION

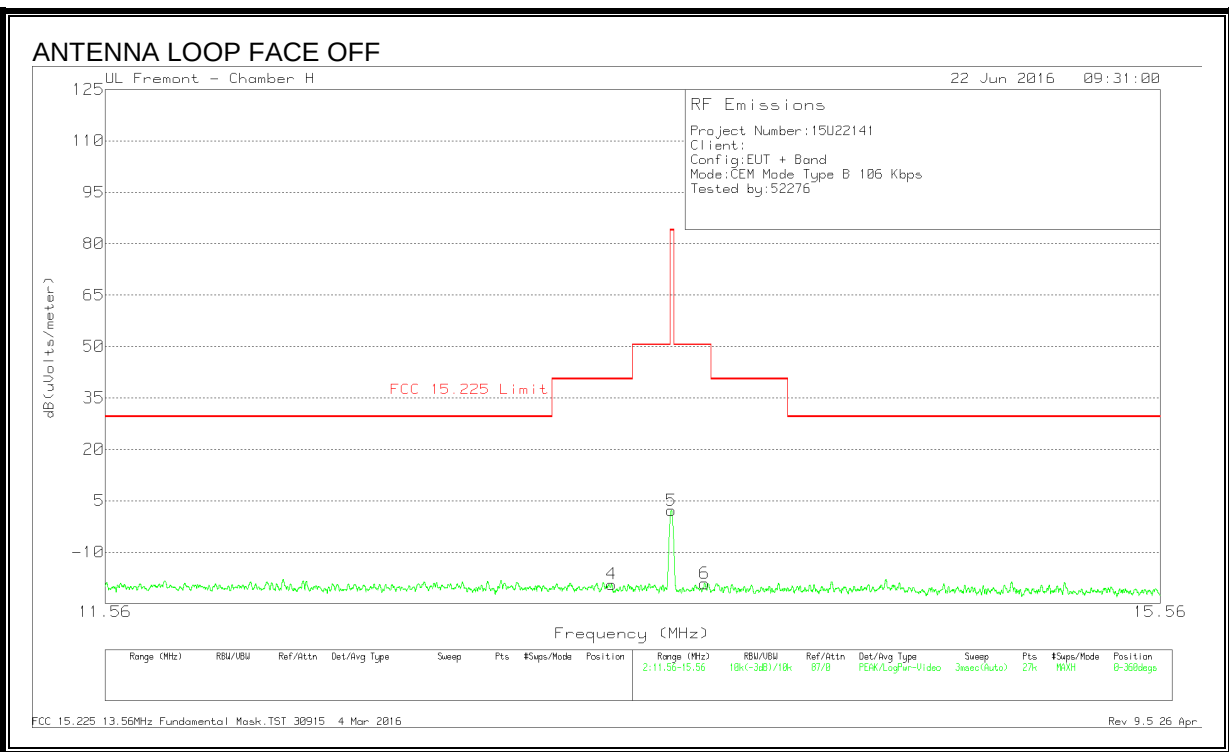
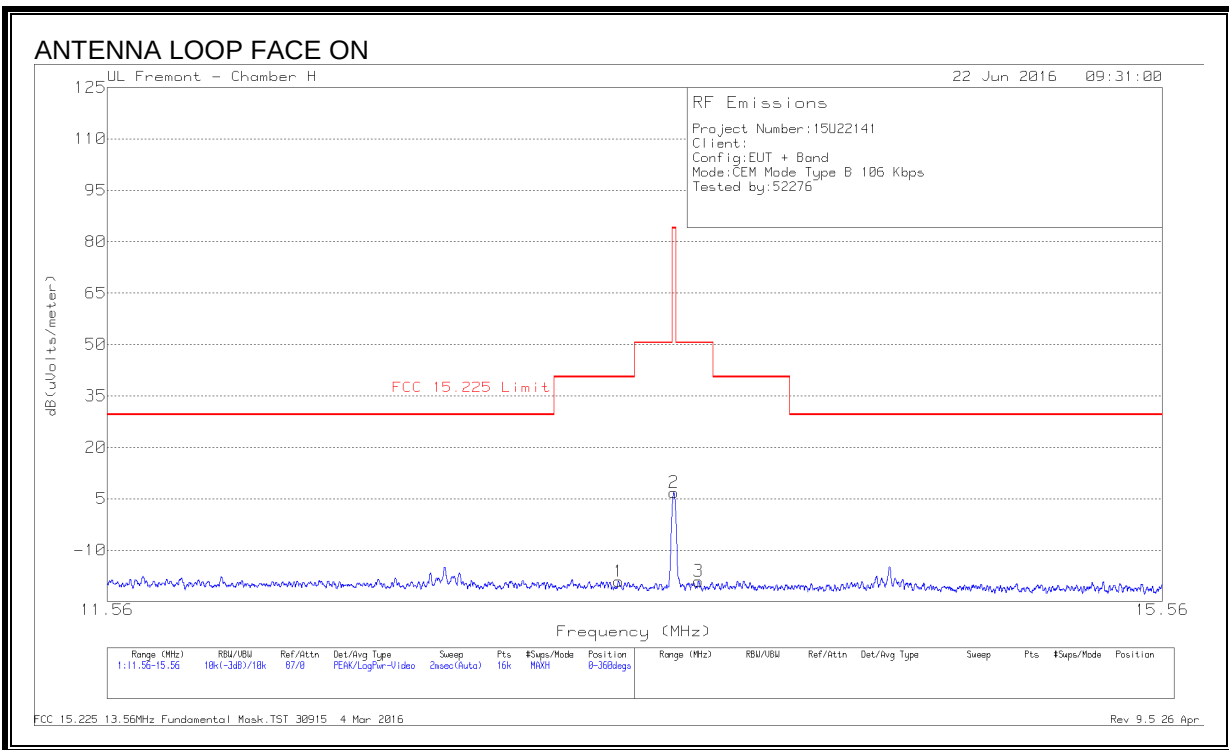


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	10.7723	11.32	Pk	10.8	.5	-40	-17.38	29.54	-46.92	-	-	0-360
1	13.21099	11.27	Pk	10.7	.6	-40	-17.43	29.54	-46.97	-	-	0-360
2	14.3989	11.11	Pk	10.6	.5	-40	-17.79	29.54	-47.33	-	-	0-360
5	16.32827	10.8	Pk	10.5	.6	-40	-18.1	29.54	-47.64	-	-	0-360
3	22.53086	14.73	Pk	9.6	.7	-40	-14.97	29.54	-44.51	-	-	0-360
6	26.53526	21.09	Pk	8.8	.8	-40	-9.31	29.54	-38.85	-	-	0-360

Pk - Peak detector

106Kbps FUNDAMENTAL

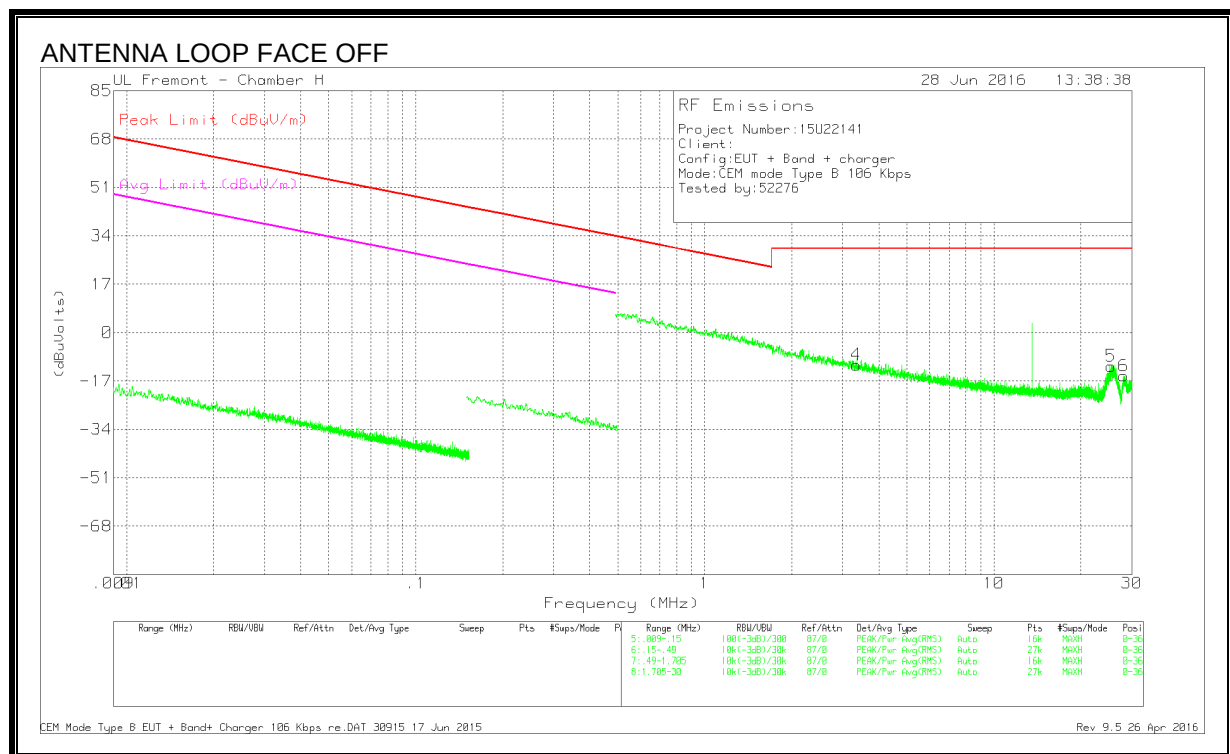
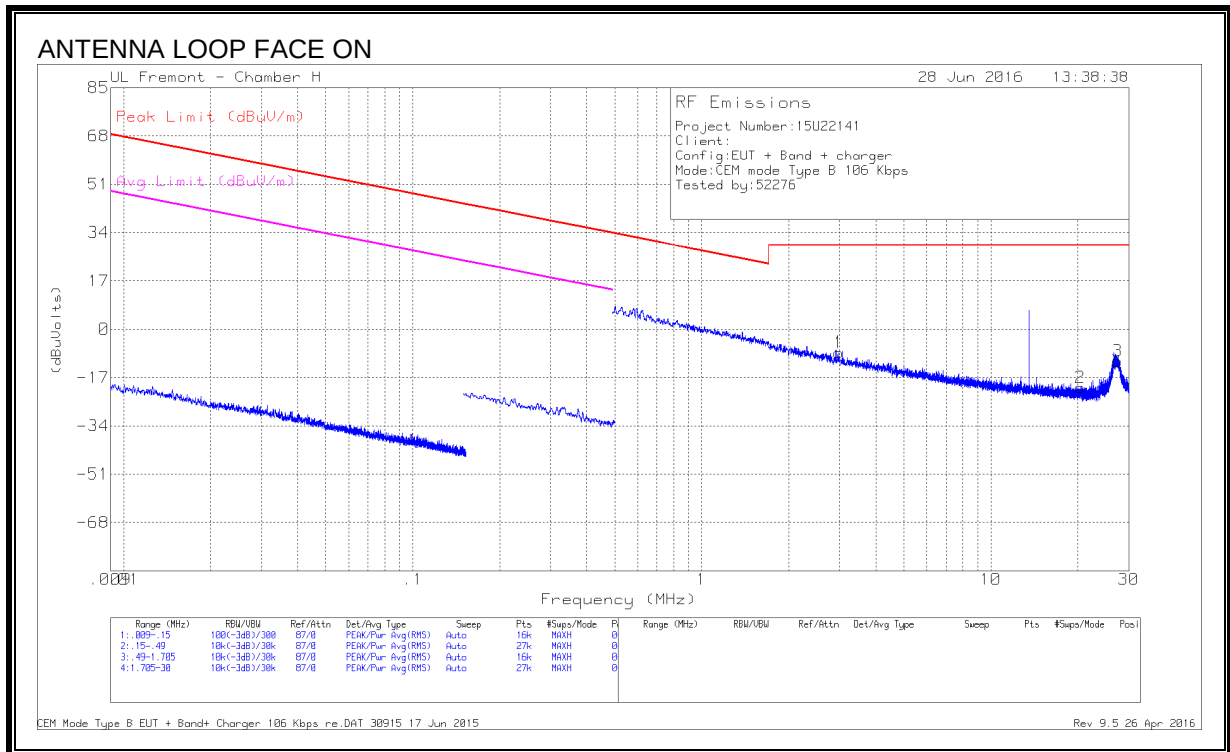


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
4	13.33215	9.35	Pk	10.7	.6	-40	-19.35	40.51	-59.86	0-360
1	13.3505	9.6	Pk	10.7	.6	-40	-19.1	40.51	-59.61	0-360
5	13.55822	30.93	Pk	10.6	.6	-40	2.13	84	-81.87	0-360
2	13.56	35.62	Pk	10.6	.6	-40	6.82	84	-77.18	0-360
3	13.65525	9.79	Pk	10.6	.6	-40	-19.01	50.5	-69.51	0-360
6	13.68669	9.66	Pk	10.6	.6	-40	-19.14	50.5	-69.64	0-360

Pk - Peak detector

SPURIOUS EMISSION



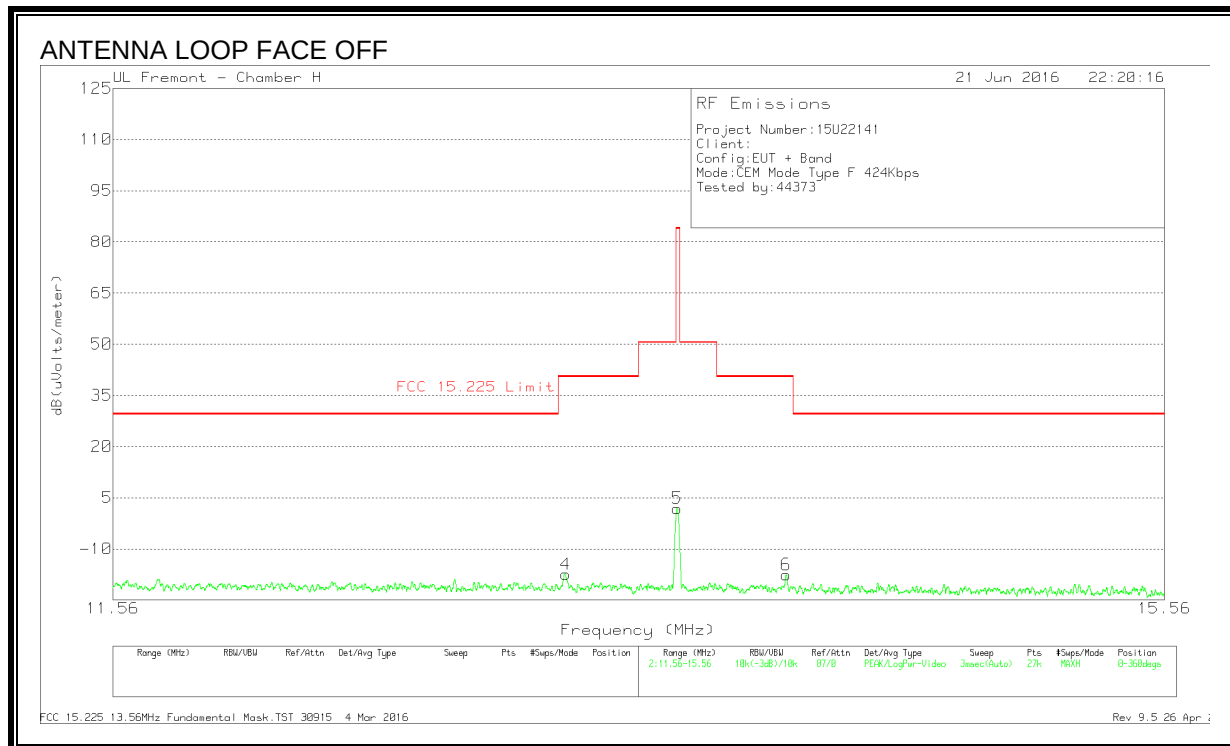
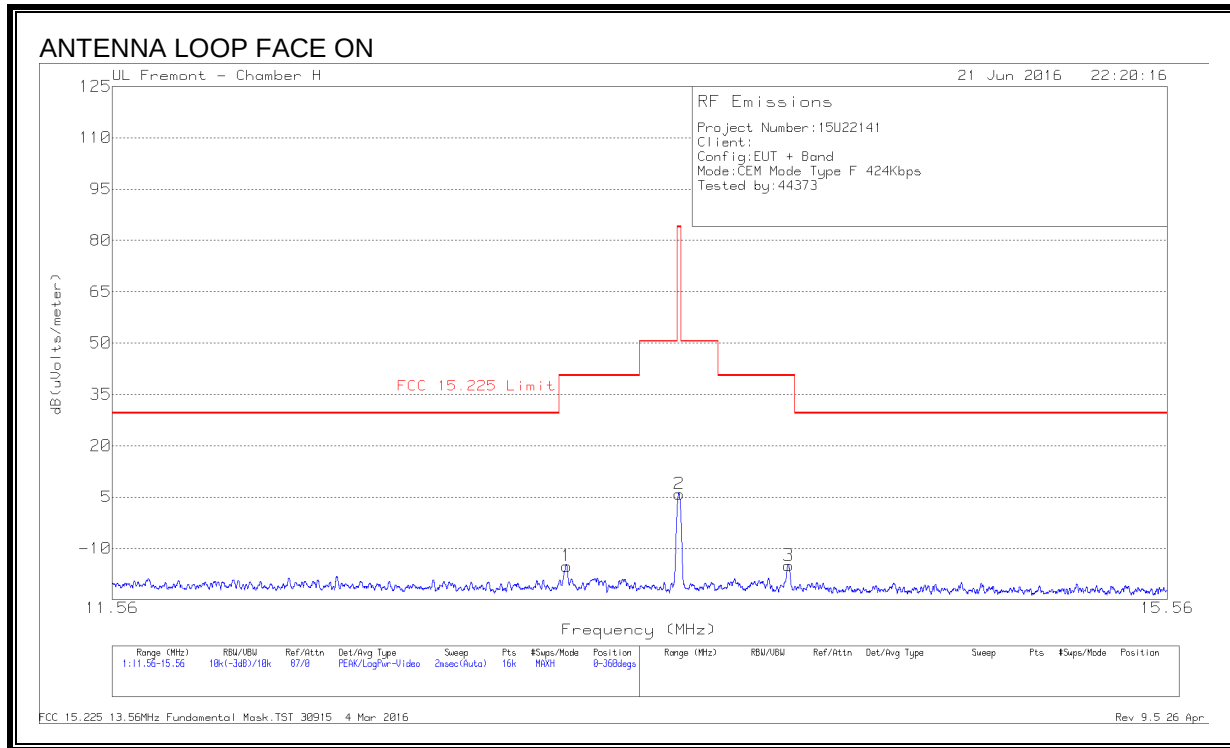
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	2.98199	20.66	Pk	10.8	.3	-40	-8.24	29.54	-37.78	-	-	0-360
4	3.35036	17.57	Pk	10.8	.3	-40	-11.33	29.54	-40.87	-	-	0-360
2	20.39189	8.76	Pk	10	.7	-40	-20.54	29.54	-50.08	-	-	0-360
5	25.45058	18.39	Pk	9.1	.7	-40	-11.81	29.54	-41.35	-	-	0-360
3	27.44283	19.35	Pk	8.6	.8	-40	-11.25	29.54	-40.79	-	-	0-360
6	28.1429	15.64	Pk	8.4	.8	-40	-15.16	29.54	-44.7	-	-	0-360

Pk - Peak detector

TYPE F

424Kbps FUNDAMENTAL

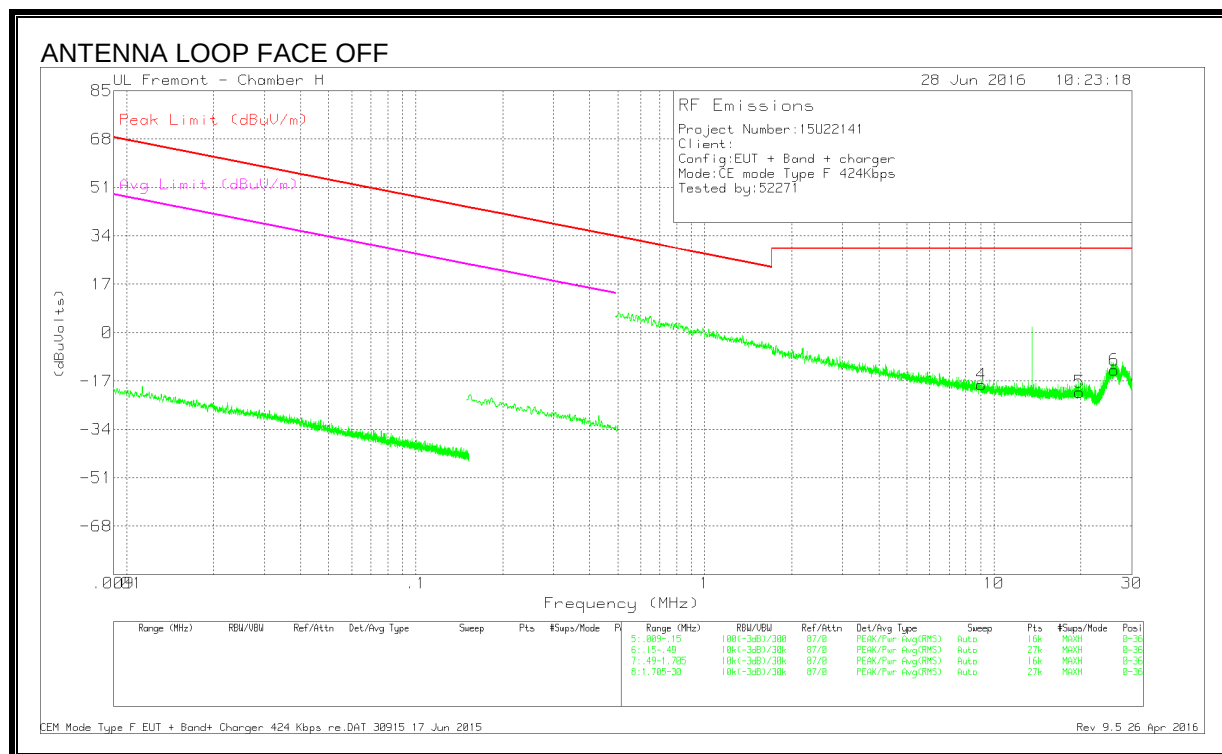
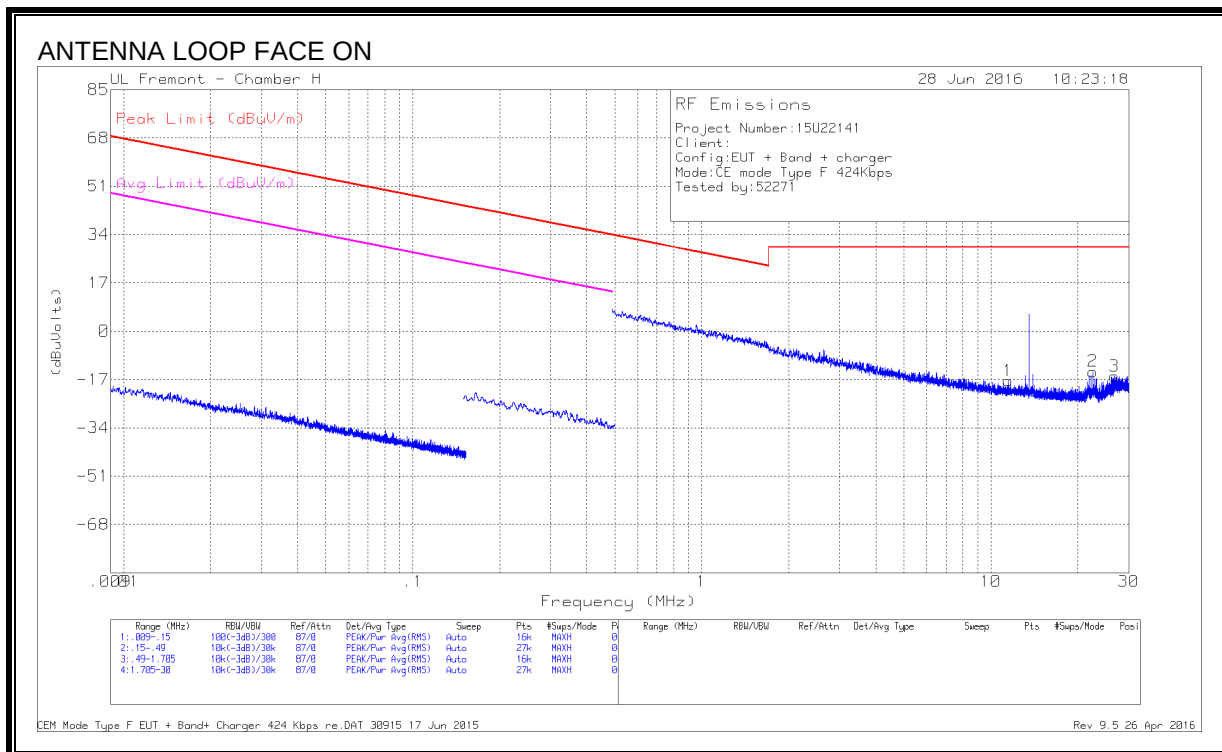


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
4	13.13738	11.23	Pk	10.7	.6	-40	-17.47	40.51	-57.98	0-360
1	13.13925	13.55	Pk	10.7	.6	-40	-15.15	40.51	-55.66	0-360
5	13.55837	30.68	Pk	10.6	.6	-40	1.88	84	-82.12	0-360
2	13.562	34.73	Pk	10.6	.6	-40	5.93	84	-78.07	0-360
6	13.98298	11.33	Pk	10.6	.5	-40	-17.57	40.51	-58.08	0-360
3	13.98625	13.9	Pk	10.6	.5	-40	-15	40.51	-55.51	0-360

Pk - Peak detector

SPURIOUS EMISSION

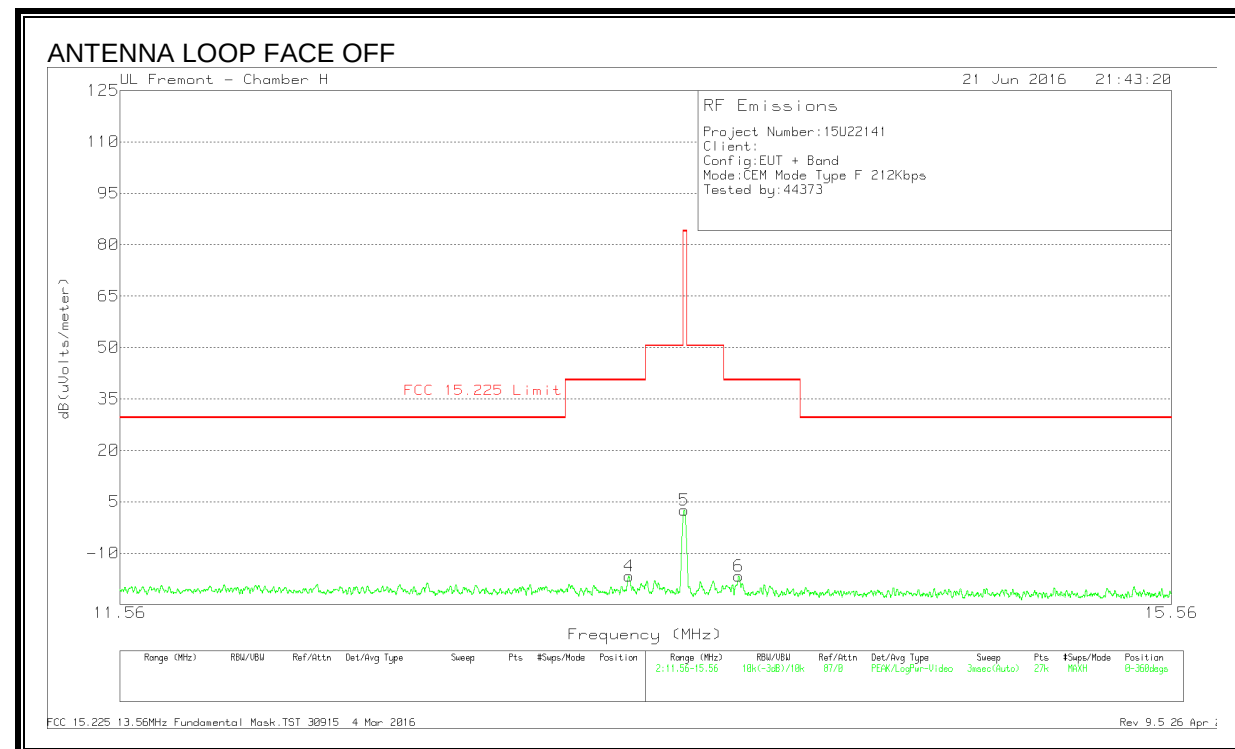
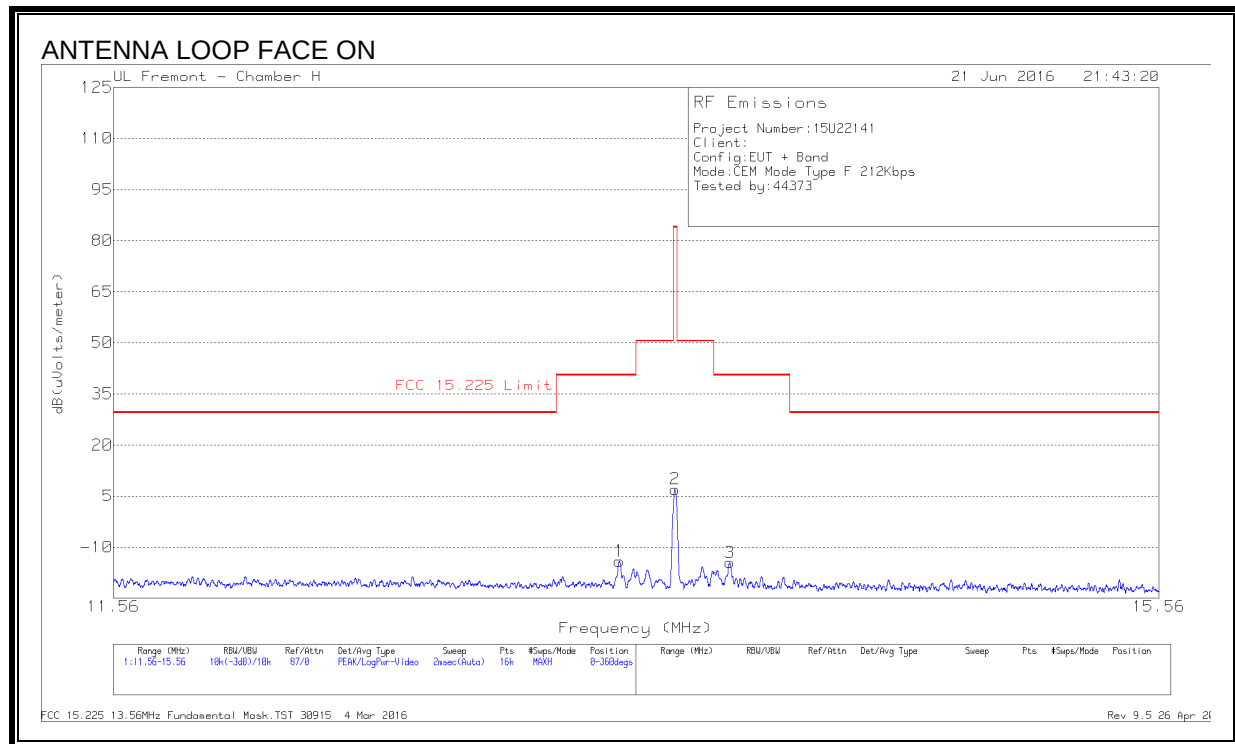


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	9.07034	10.35	Pk	10.8	.5	-40	-18.35	29.54	-47.89	-	-	0-360
1	11.50956	11.33	Pk	10.7	.5	-40	-17.47	29.54	-47.01	-	-	0-360
5	19.78614	8.3	Pk	10.1	.7	-40	-20.9	29.54	-50.44	-	-	0-360
2	22.53243	15.52	Pk	9.6	.7	-40	-14.18	29.54	-43.72	-	-	0-360
6	26.09877	17.15	Pk	8.9	.8	-40	-13.15	29.54	-42.69	-	-	0-360
3	26.77945	14.56	Pk	8.8	.8	-40	-15.84	29.54	-45.38	-	-	0-360

Pk - Peak detector

212Kbps FUNDAMENTAL

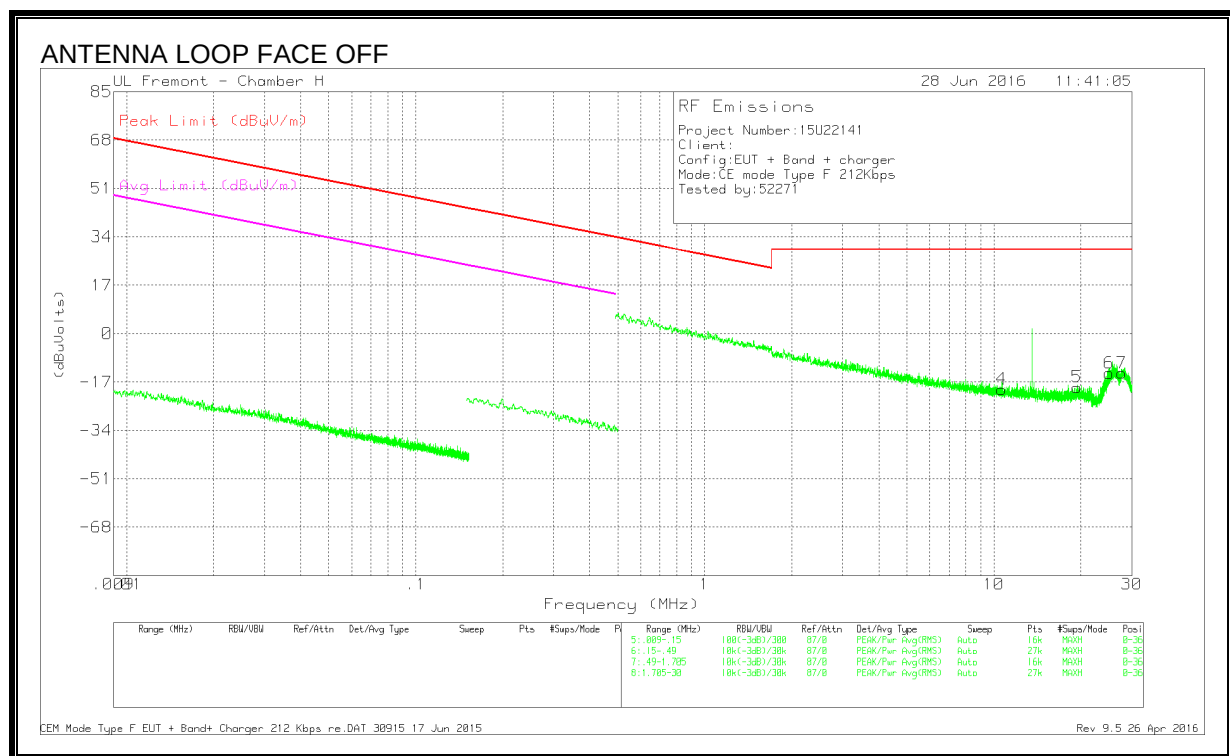
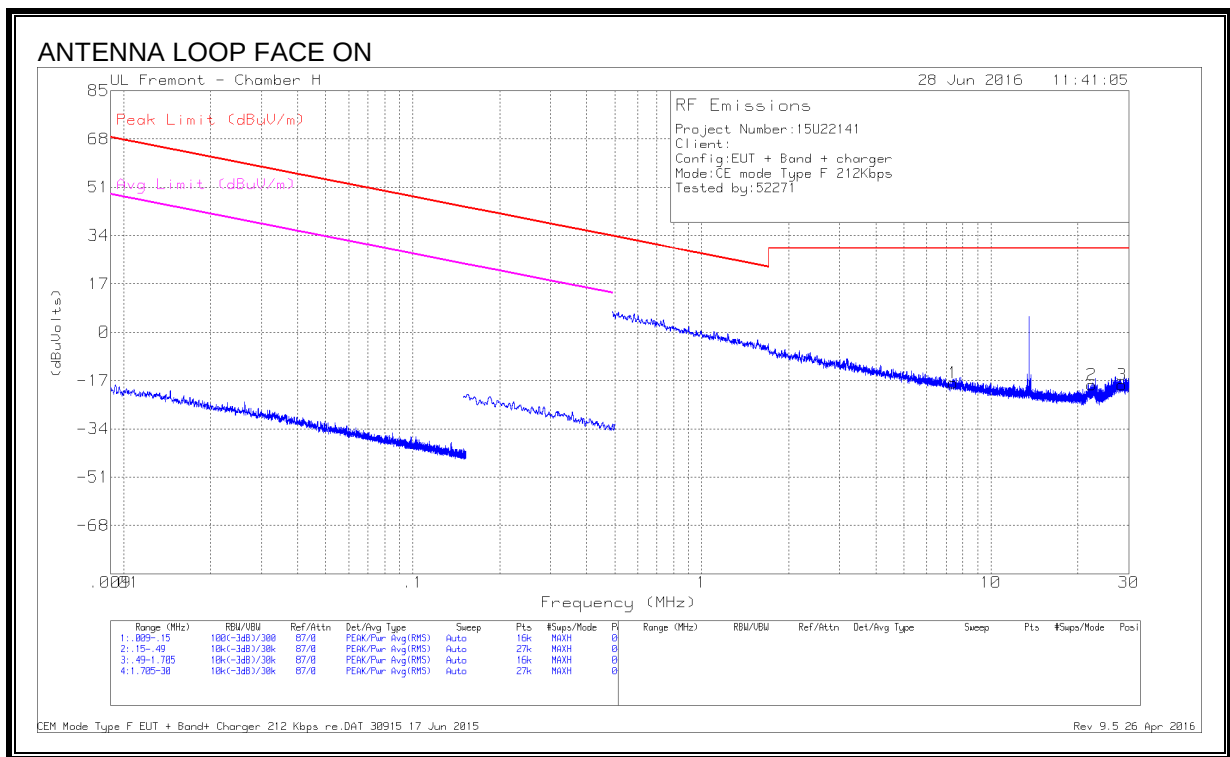


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
1	13.34788	14.6	Pk	10.7	.6	-40	-14.1	40.51	-54.61	0-360
4	13.34821	11.95	Pk	10.7	.6	-40	-16.75	40.51	-57.26	0-360
5	13.55837	31.32	Pk	10.6	.6	-40	2.52	84	-81.48	0-360
2	13.56038	35.84	Pk	10.6	.6	-40	7.04	84	-76.96	0-360
6	13.76897	12.2	Pk	10.6	.5	-40	-16.7	40.51	-57.21	0-360
3	13.77325	14.38	Pk	10.6	.5	-40	-14.52	40.51	-55.03	0-360

Pk - Peak detector

SPURIOUS EMISSION



DATA

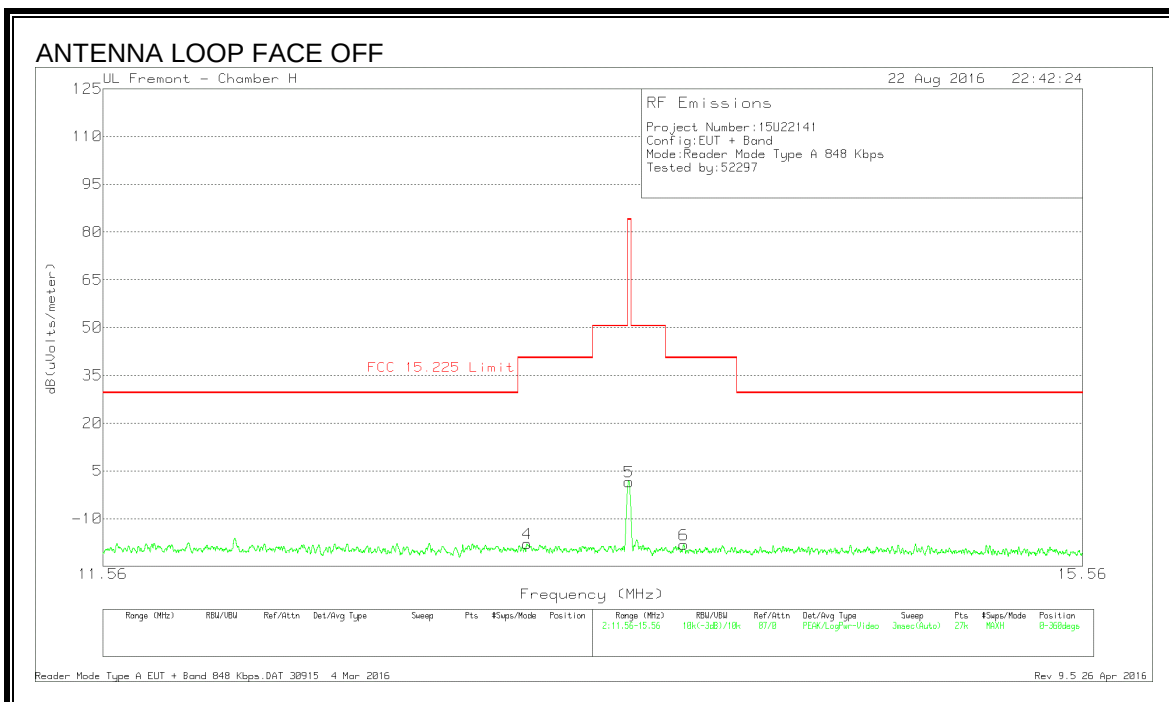
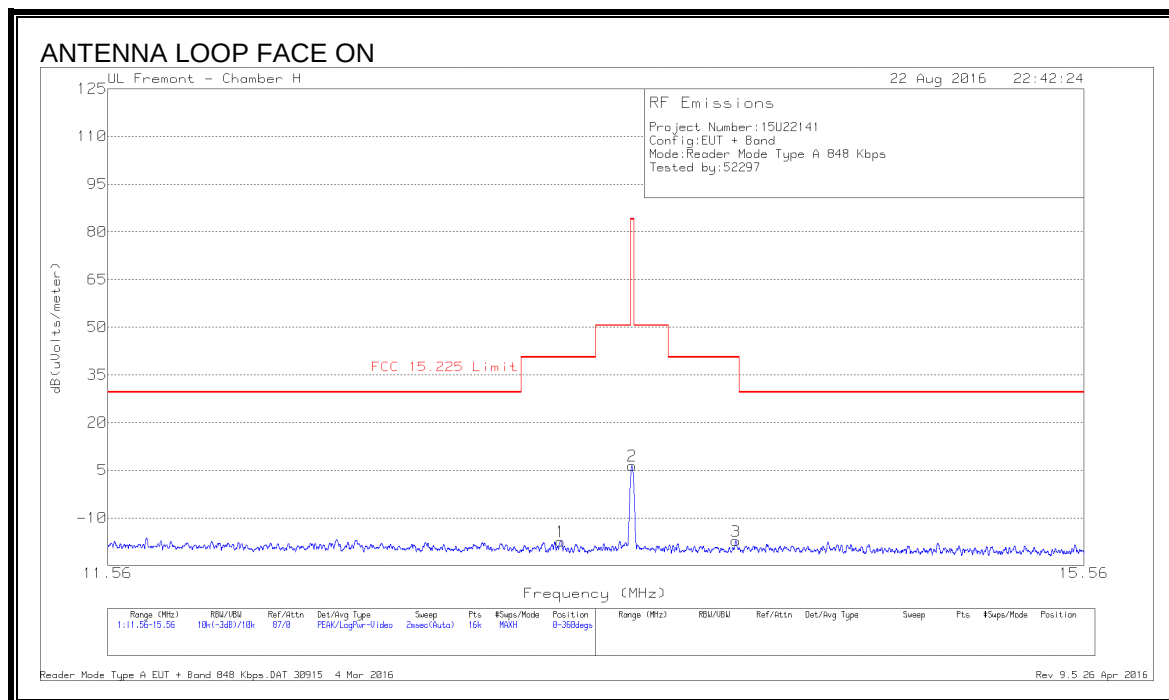
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	7.41608	10.87	Pk	10.9	.4	-40	-17.83	29.54	-47.37	-	-	0-360
4	10.64444	9.15	Pk	10.8	.5	-40	-19.55	29.54	-49.09	-	-	0-360
5	19.39524	10.24	Pk	10.2	.7	-40	-18.86	29.54	-48.4	-	-	0-360
2	22.32021	11.02	Pk	9.7	.7	-40	-18.58	29.54	-48.12	-	-	0-360
6	25.07226	16.18	Pk	9.2	.7	-40	-13.92	29.54	-43.46	-	-	0-360
7	27.71741	16.85	Pk	8.5	.8	-40	-13.85	29.54	-43.39	-	-	0-360
3	28.42533	12.25	Pk	8.4	.8	-40	-18.55	29.54	-48.09	-	-	0-360

Pk - Peak detector

8.1.2. READER MODE

TYPE A

848Kbps FUNDAMENTAL

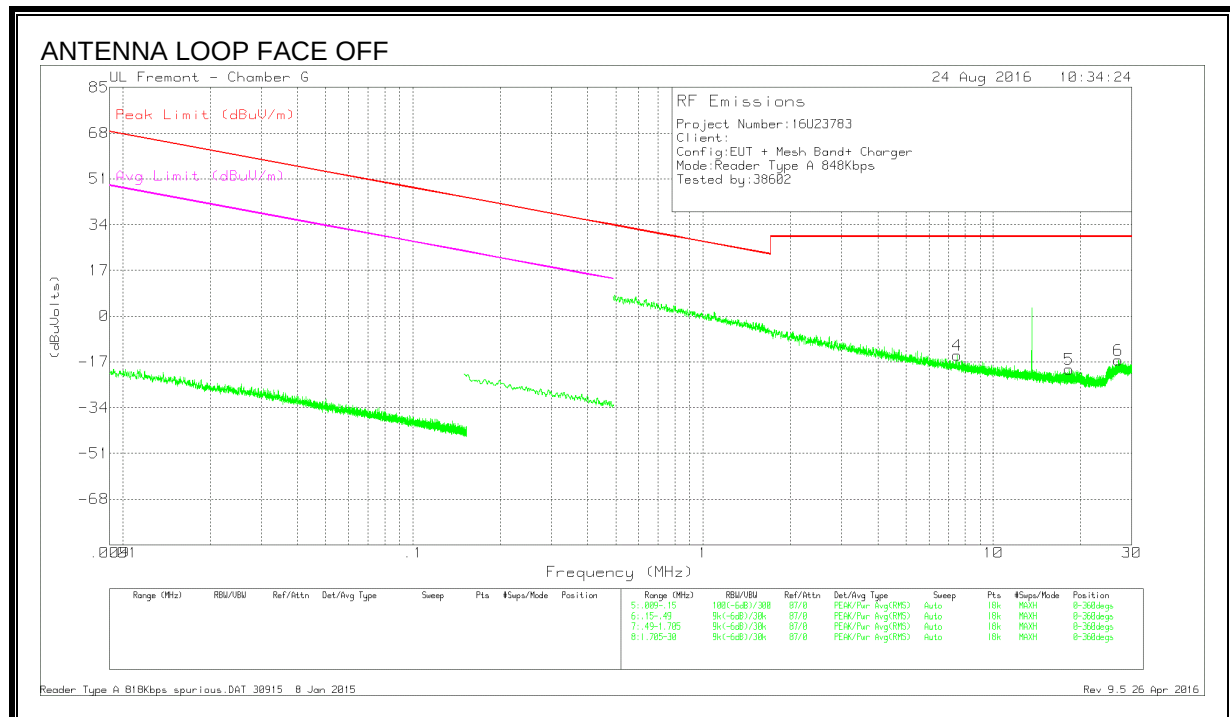
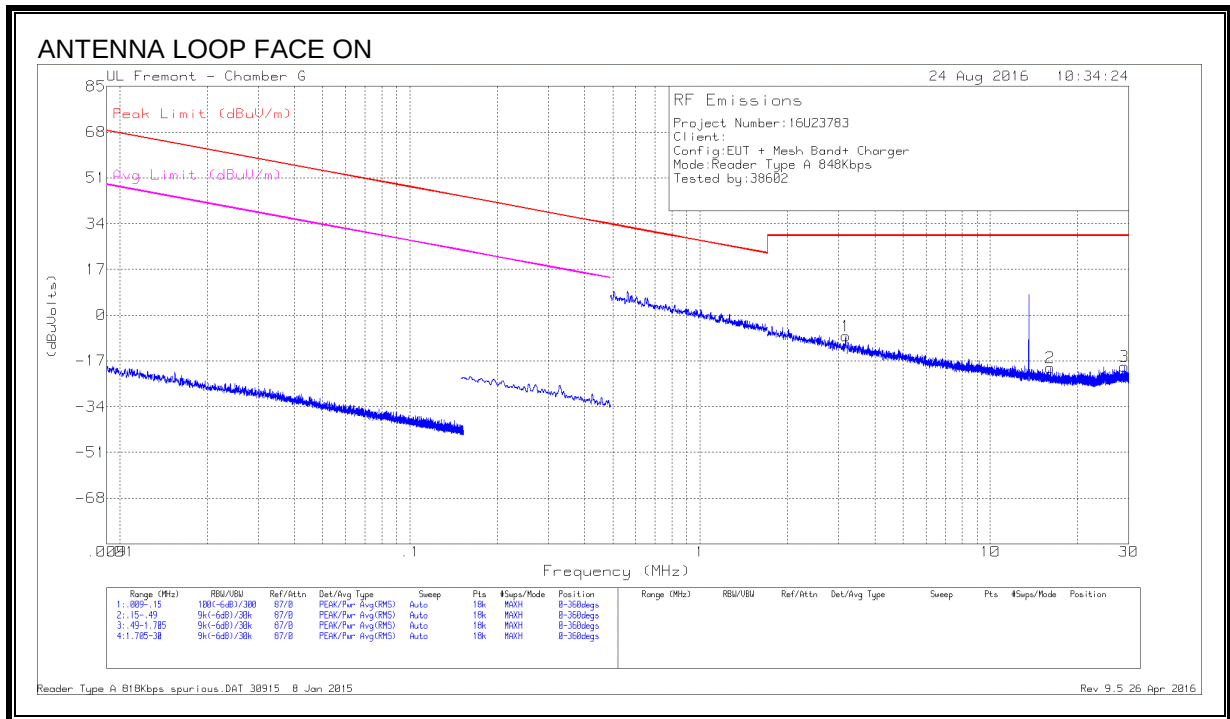


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
4	13.14693	10.82	Pk	10.7	.6	-40	-17.88	40.51	-58.39	0-360
1	13.26863	11.32	Pk	10.7	.6	-40	-17.38	40.51	-57.89	0-360
5	13.55978	30.36	Pk	10.6	.6	-40	1.56	84	-82.44	0-360
2	13.56	35.23	Pk	10.6	.6	-40	6.43	84	-77.57	0-360
6	13.78703	10.61	Pk	10.6	.6	-40	-18.19	40.51	-58.7	0-360
3	13.99588	11.57	Pk	10.6	.6	-40	-17.23	40.51	-57.74	0-360

Pk - Peak detector

SPURIOUS EMISSION

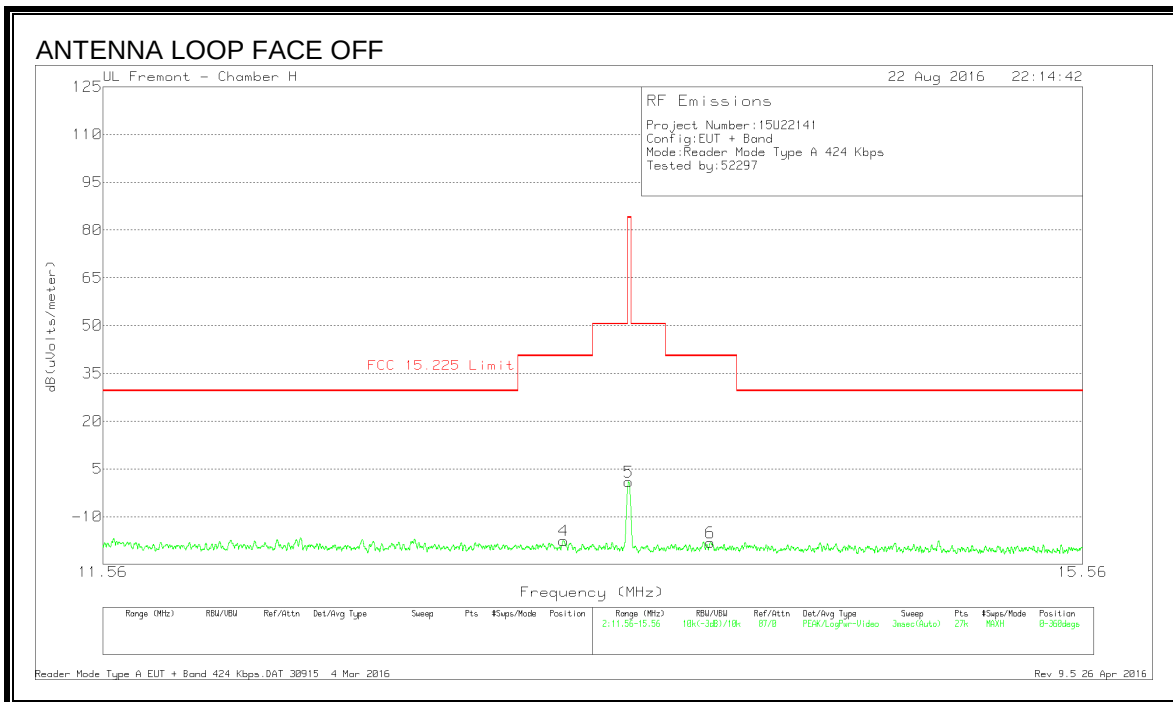
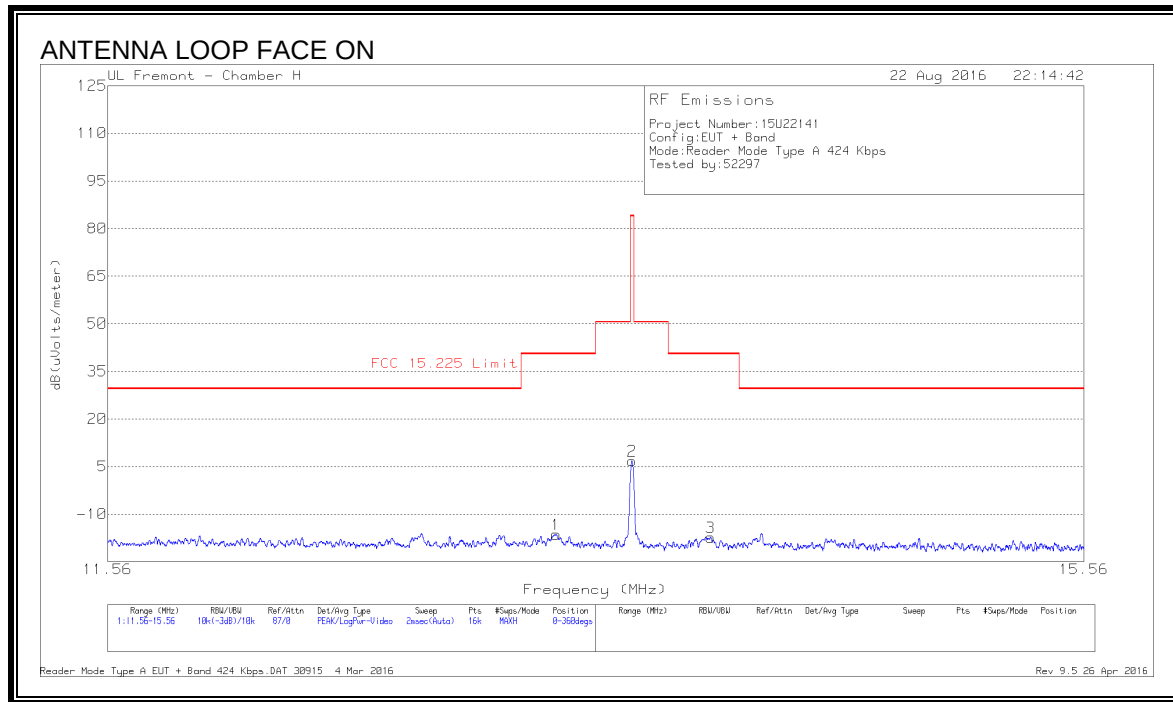


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	3.17325	20.08	Pk	11.8	.3	-40	-7.82	29.54	-37.36	-	-	0-360
4	7.51197	13.67	Pk	11.2	.5	-40	-14.63	29.54	-44.17	-	-	0-360
2	16.06994	9.43	Pk	10.4	.7	-40	-19.47	29.54	-49.01	-	-	0-360
5	18.20157	9.48	Pk	10.1	.7	-40	-19.72	29.54	-49.26	-	-	0-360
6	26.95368	13.84	Pk	8.8	.9	-40	-16.46	29.54	-46	-	-	0-360
3	28.97763	11.59	Pk	8.5	.9	-40	-19.01	29.54	-48.55	-	-	0-360

Pk - Peak detector

424Kbps FUNDAMENTAL

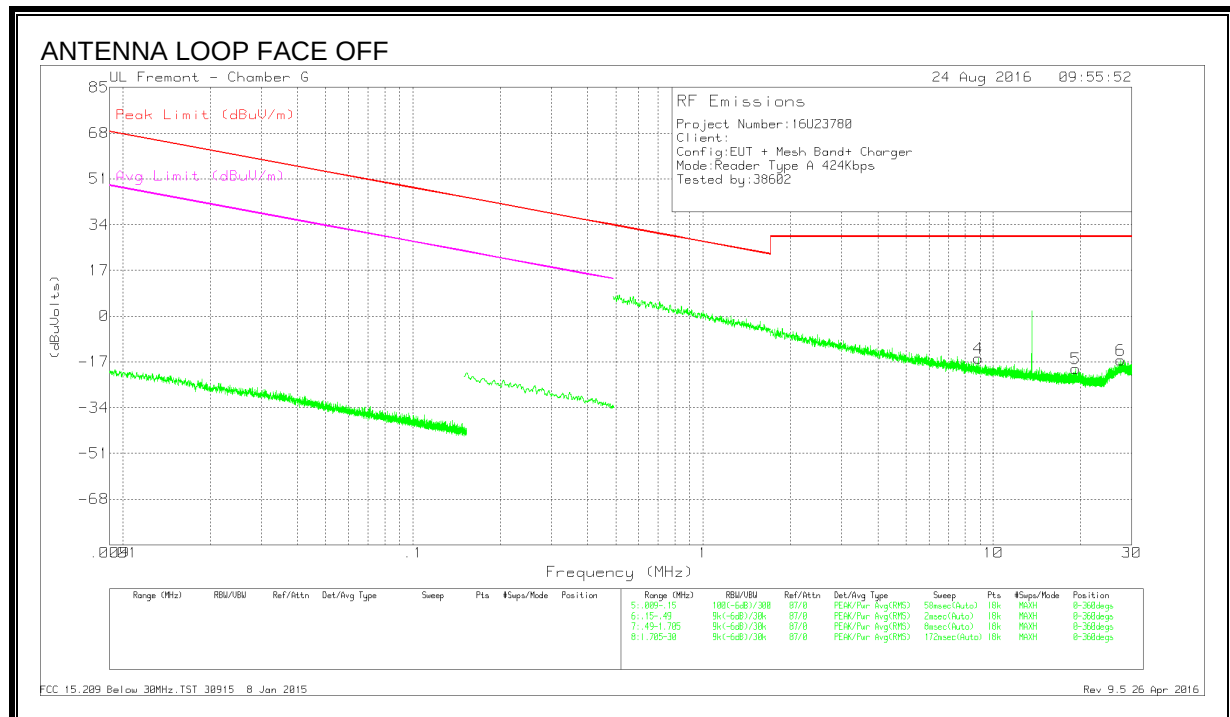
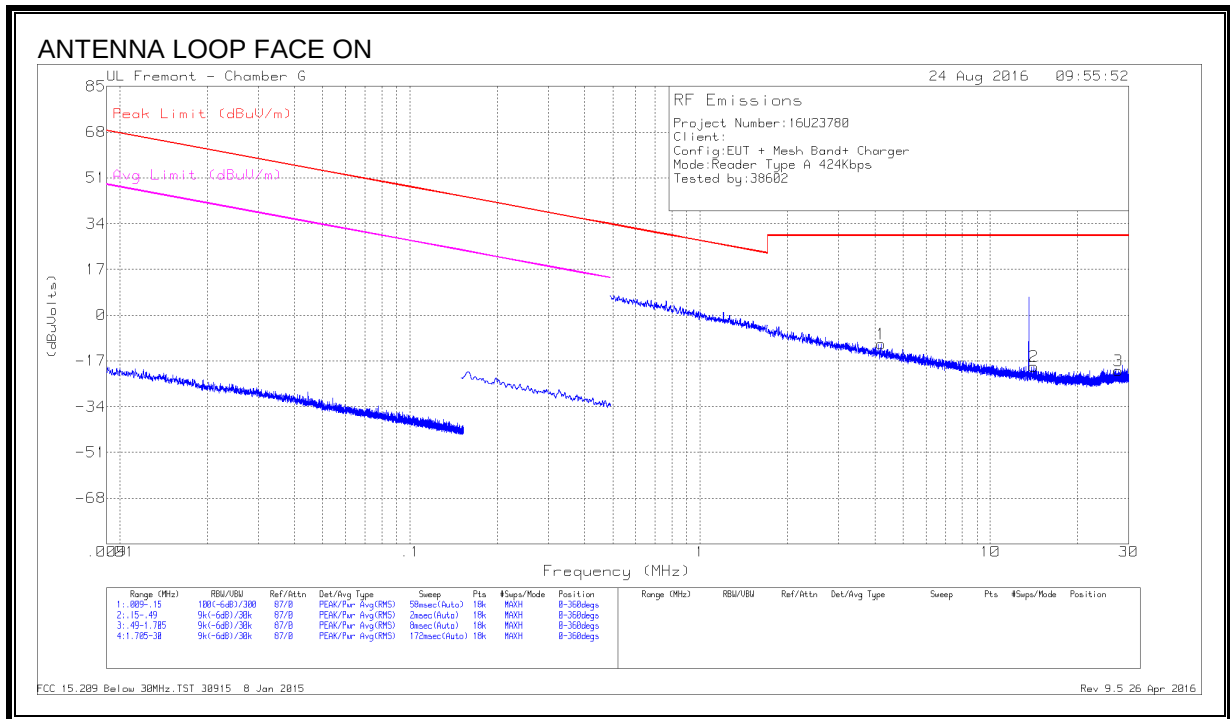


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
1	13.25113	12.31	Pk	10.7	.6	-40	-16.39	40.51	-56.9	0-360
4	13.29345	11.17	Pk	10.7	.6	-40	-17.53	40.51	-58.04	0-360
5	13.55859	29.75	Pk	10.6	.6	-40	.95	84	-83.05	0-360
2	13.56	35.6	Pk	10.6	.6	-40	6.8	84	-77.2	0-360
3	13.889	11.5	Pk	10.6	.6	-40	-17.3	40.51	-57.81	0-360
6	13.89936	10.7	Pk	10.6	.6	-40	-18.1	40.51	-58.61	0-360

Pk - Peak detector

SPURIOUS EMISSION

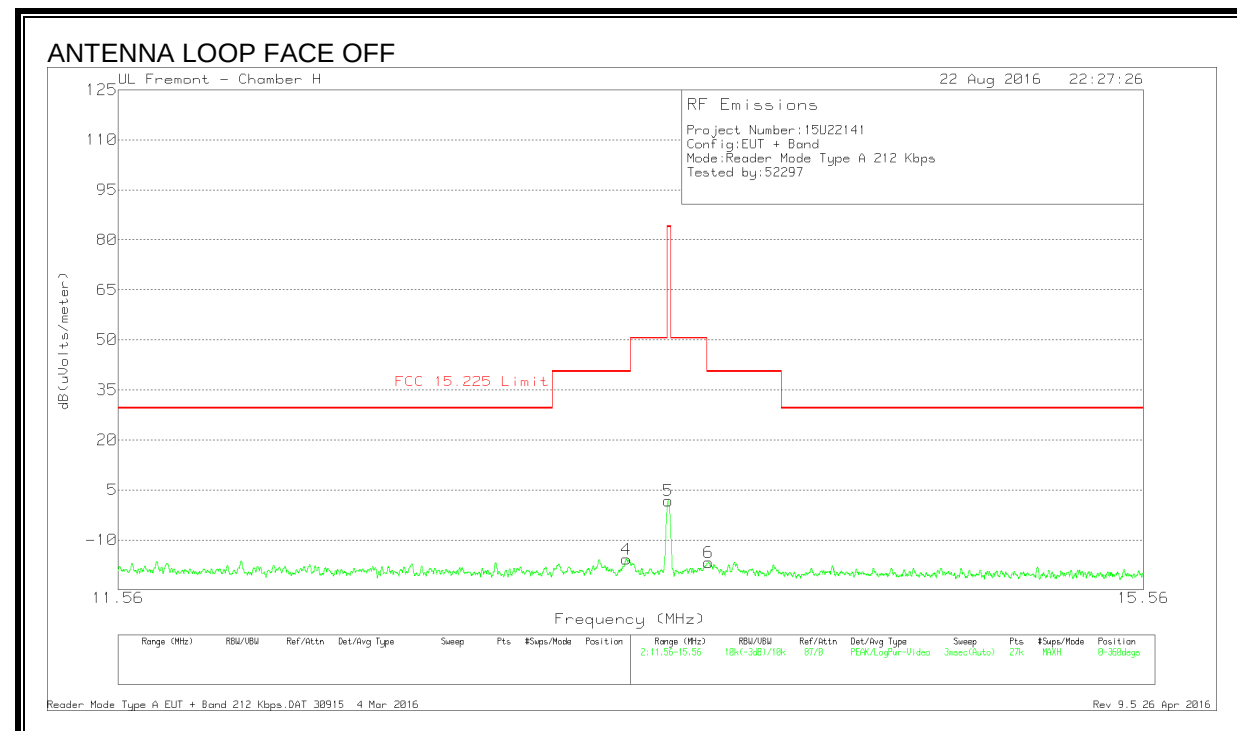
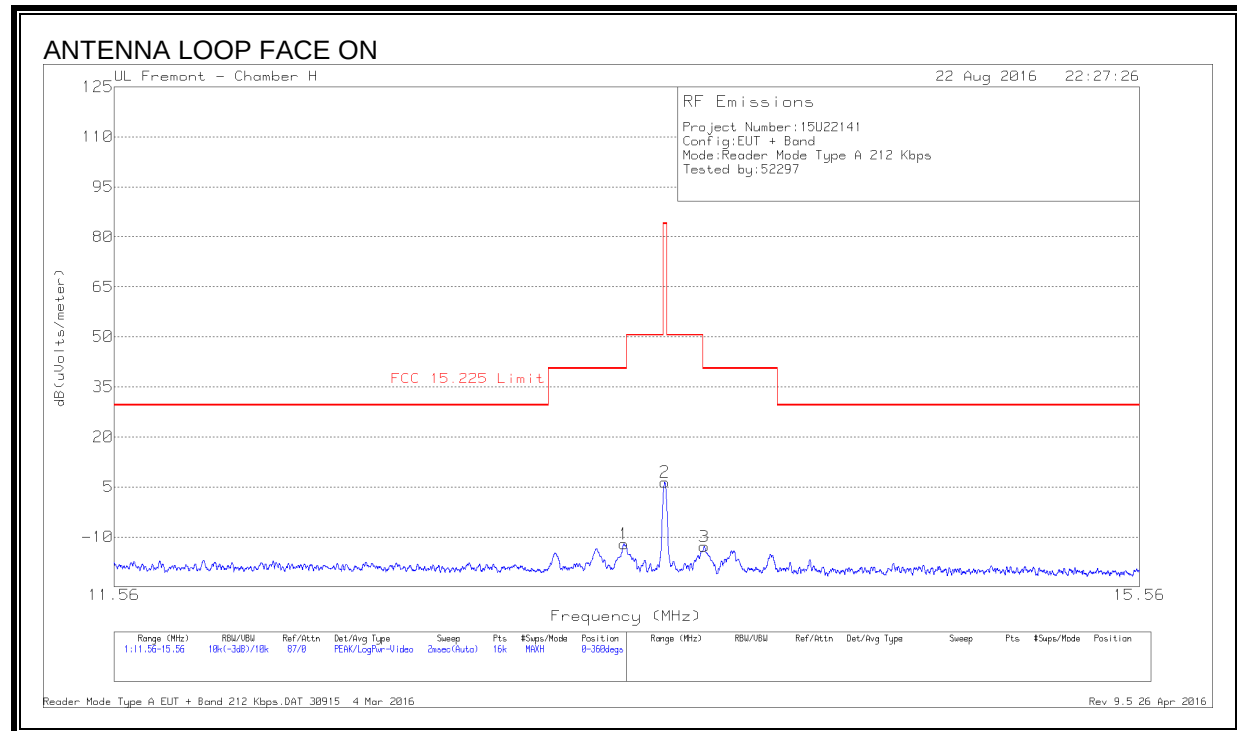


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuV olts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	4.20605	17.29	Pk	11.6	.3	-40	-10.81	29.54	-40.35	-	-	0-360
4	8.88118	12.71	Pk	11.1	.5	-40	-15.69	29.54	-45.23	-	-	0-360
2	14.09393	9.76	Pk	10.6	.6	-40	-19.04	29.54	-48.58	-	-	0-360
5	19.26738	9.86	Pk	9.9	.7	-40	-19.54	29.54	-49.08	-	-	0-360
6	27.45593	13.93	Pk	8.8	.9	-40	-16.37	29.54	-45.91	-	-	0-360
3	27.56912	9.78	Pk	8.7	.9	-40	-20.62	29.54	-50.16	-	-	0-360

Pk - Peak detector

212Kbps FUNDAMENTAL

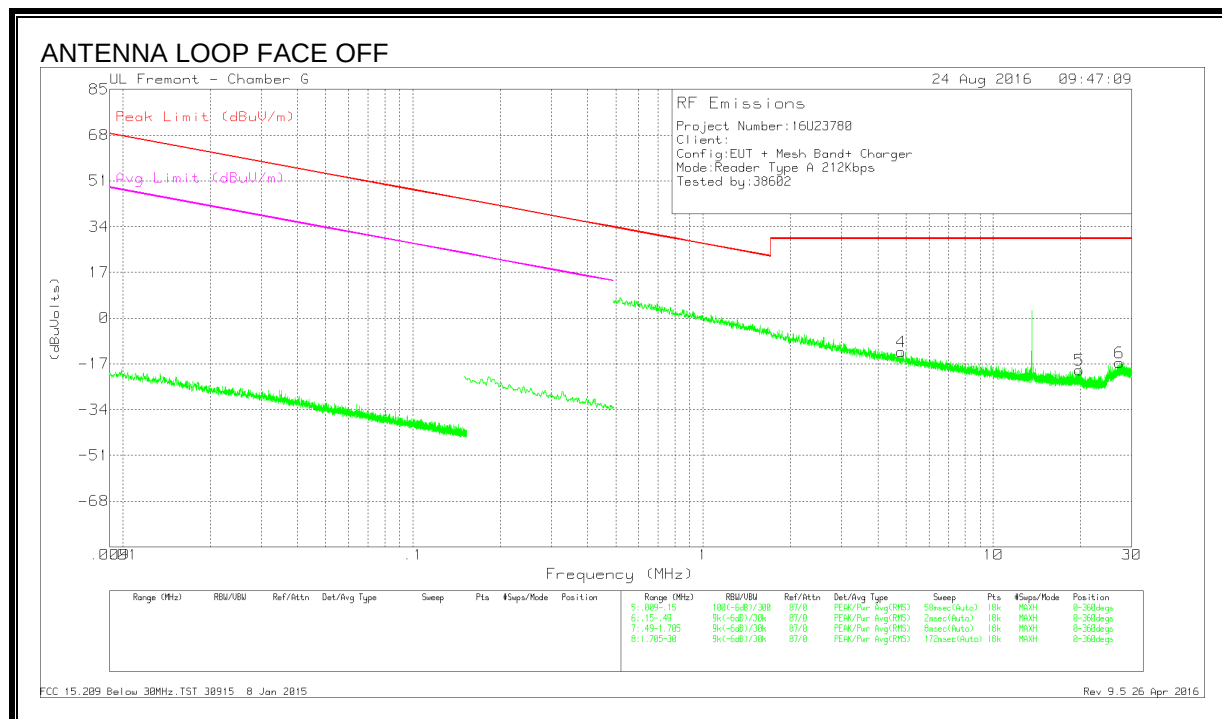
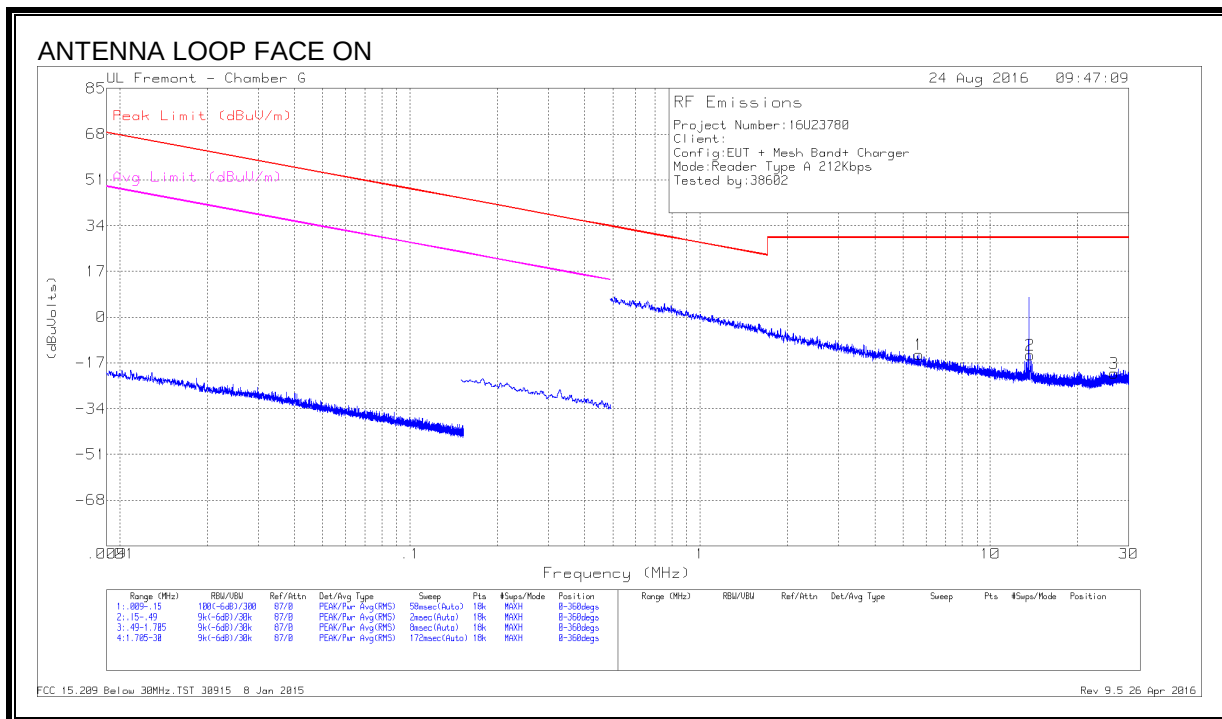


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
4	13.39498	12.88	Pk	10.7	.6	-40	-15.82	40.51	-56.33	0-360
1	13.40113	16.61	Pk	10.7	.6	-40	-12.09	40.51	-52.6	0-360
5	13.55837	30.54	Pk	10.6	.6	-40	1.74	84	-82.26	0-360
2	13.56025	35.25	Pk	10.6	.6	-40	6.45	84	-77.55	0-360
3	13.71638	15.95	Pk	10.6	.6	-40	-12.85	40.51	-53.36	0-360
6	13.71851	12.03	Pk	10.6	.6	-40	-16.77	40.51	-57.28	0-360

Pk - Peak detector

SPURIOUS EMISSION

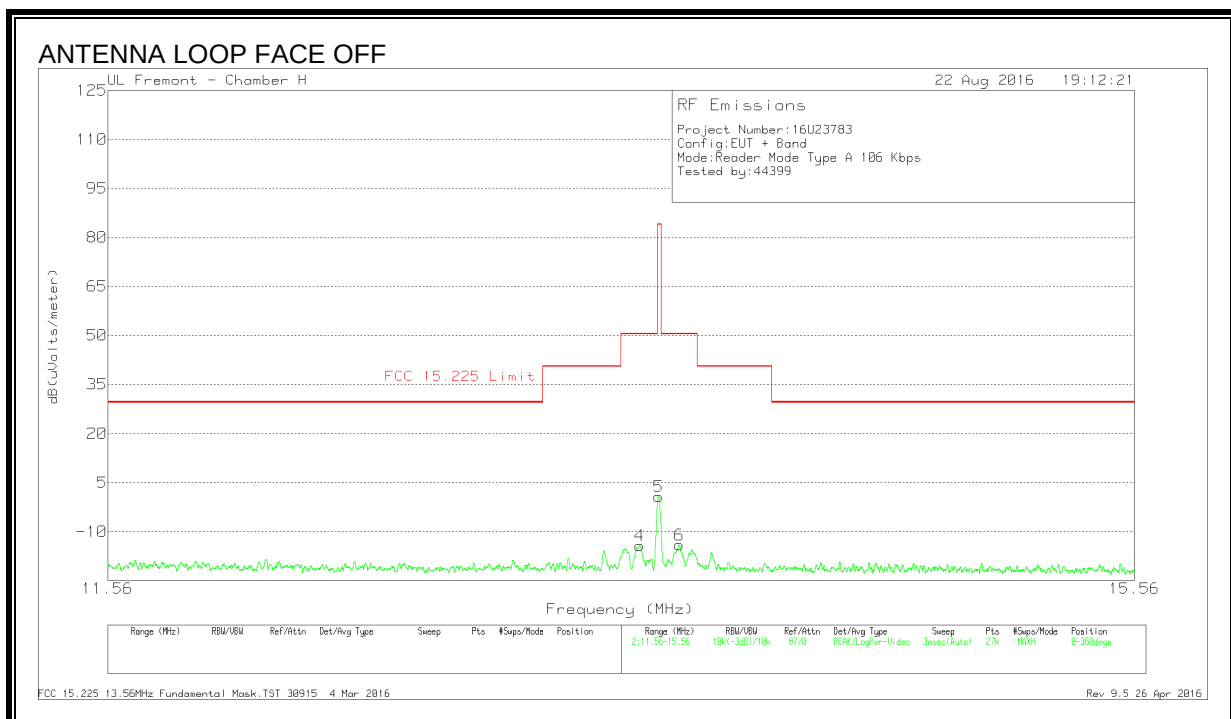
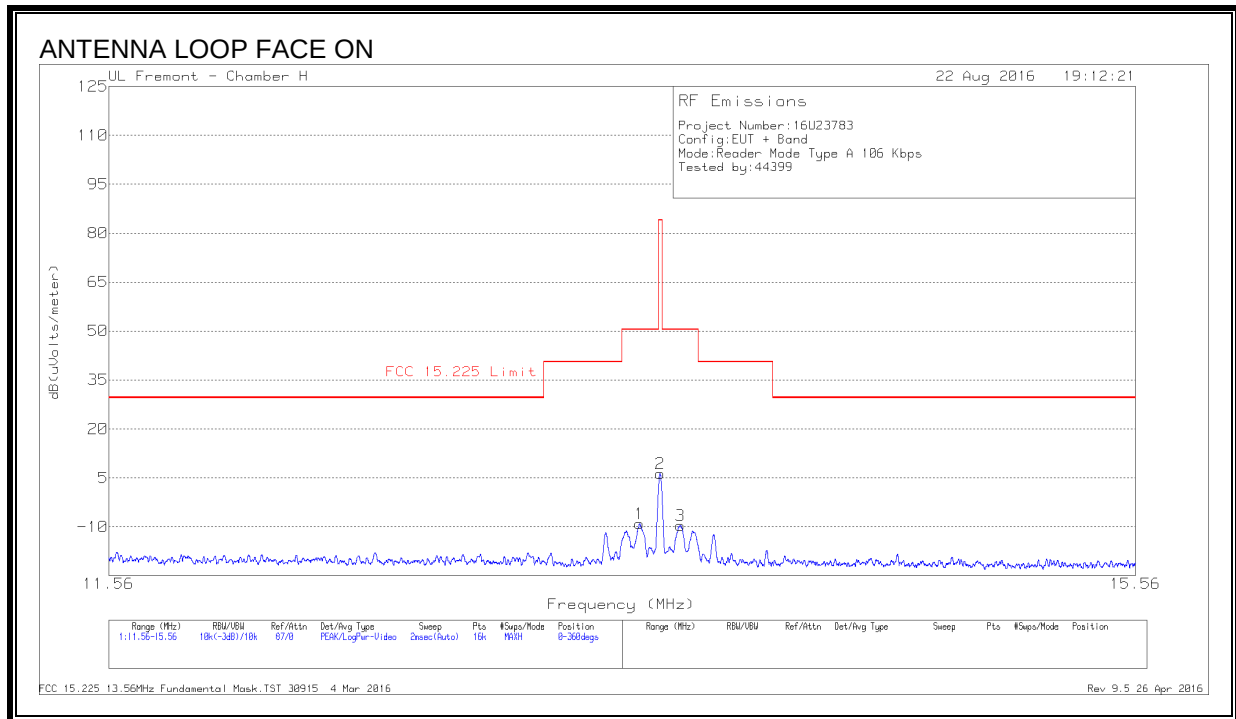


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	4.80813	15.62	Pk	11.5	.3	-40	-12.58	29.54	-42.12	-	-	0-360
1	5.67116	14.42	Pk	11.4	.4	-40	-13.78	29.54	-43.32	-	-	0-360
2	13.72294	14.71	Pk	10.6	.6	-40	-14.09	29.54	-43.63	-	-	0-360
5	19.75628	10.1	Pk	9.8	.7	-40	-19.4	29.54	-48.94	-	-	0-360
3	26.67465	9.32	Pk	8.9	.9	-40	-20.88	29.54	-50.42	-	-	0-360
6	27.25314	13.74	Pk	8.8	.9	-40	-16.56	29.54	-46.1	-	-	0-360

Pk - Peak detector

106Kbps FUNDAMENTAL

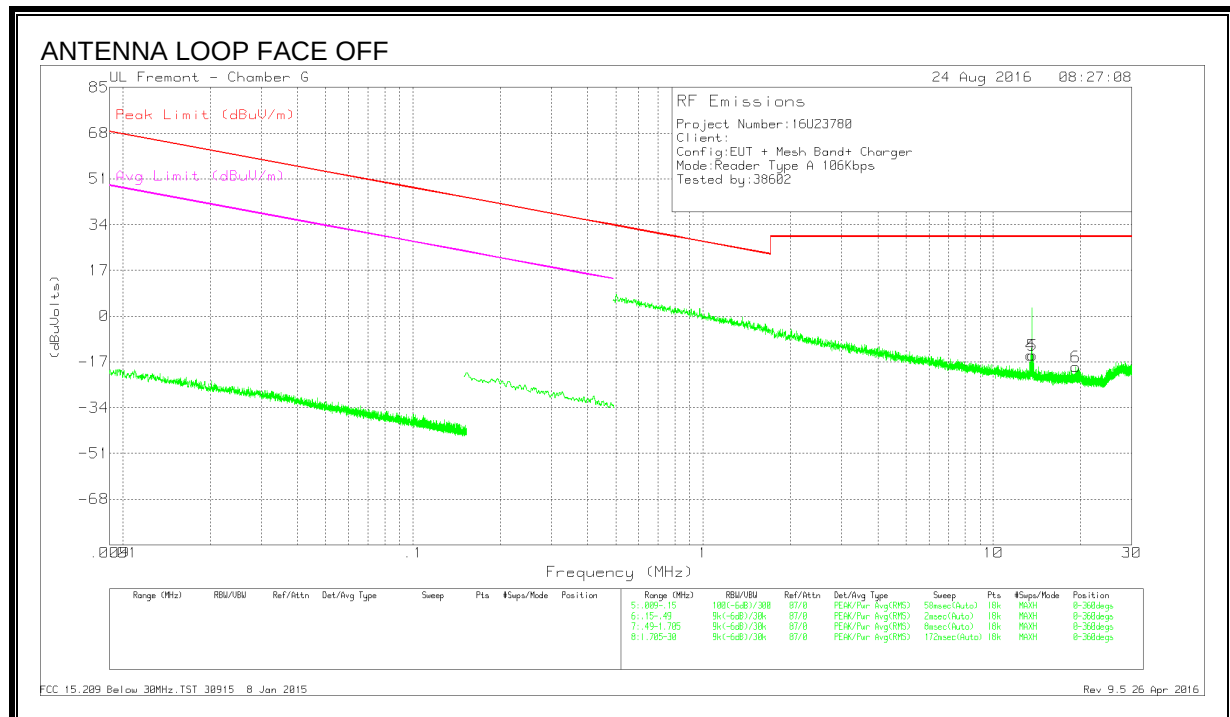
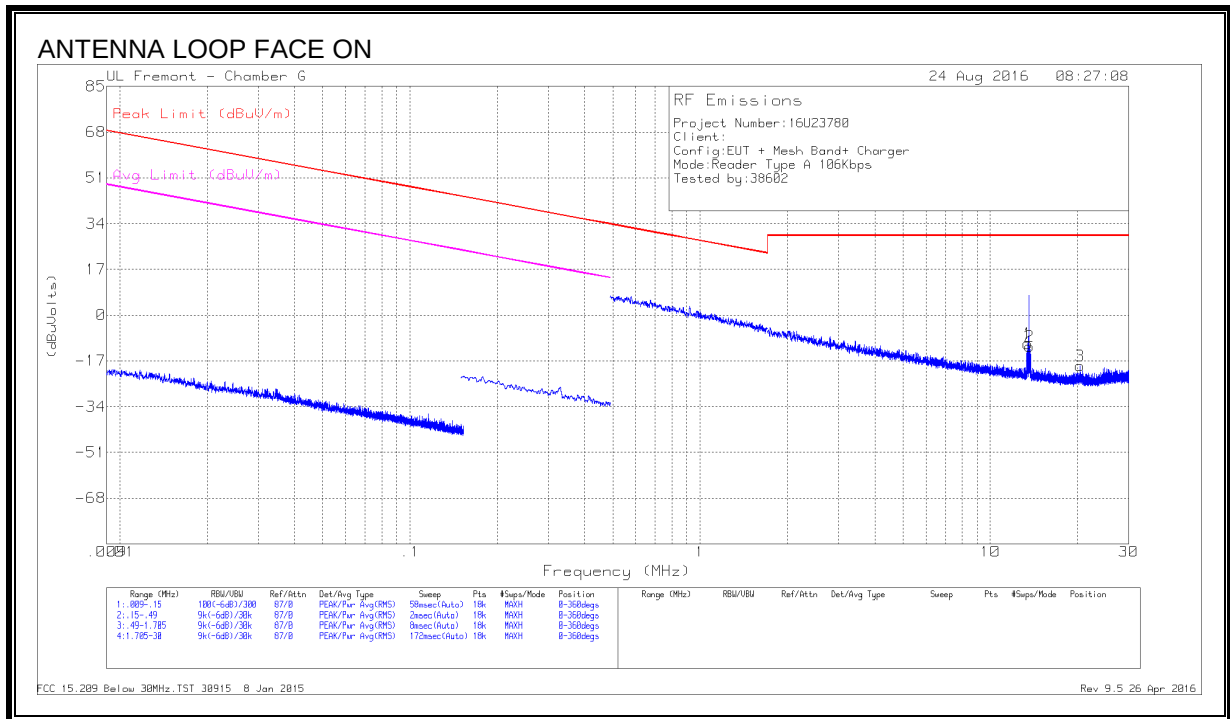


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr (dB) 40Log	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
1	13.48063	19.65	Pk	10.7	.6	-40	-9.05	50.5	-59.55	0-360
4	13.48467	14.52	Pk	10.7	.6	-40	-14.18	50.5	-64.68	0-360
5	13.55793	29.59	Pk	10.6	.6	-40	.79	84	-83.21	0-360
2	13.56	35.12	Pk	10.6	.6	-40	6.32	84	-77.68	0-360
3	13.64013	19.3	Pk	10.6	.6	-40	-9.5	50.5	-60	0-360
6	13.64051	14.71	Pk	10.6	.6	-40	-14.09	50.5	-64.59	0-360

Pk - Peak detector

SPURIOUS EMISSION



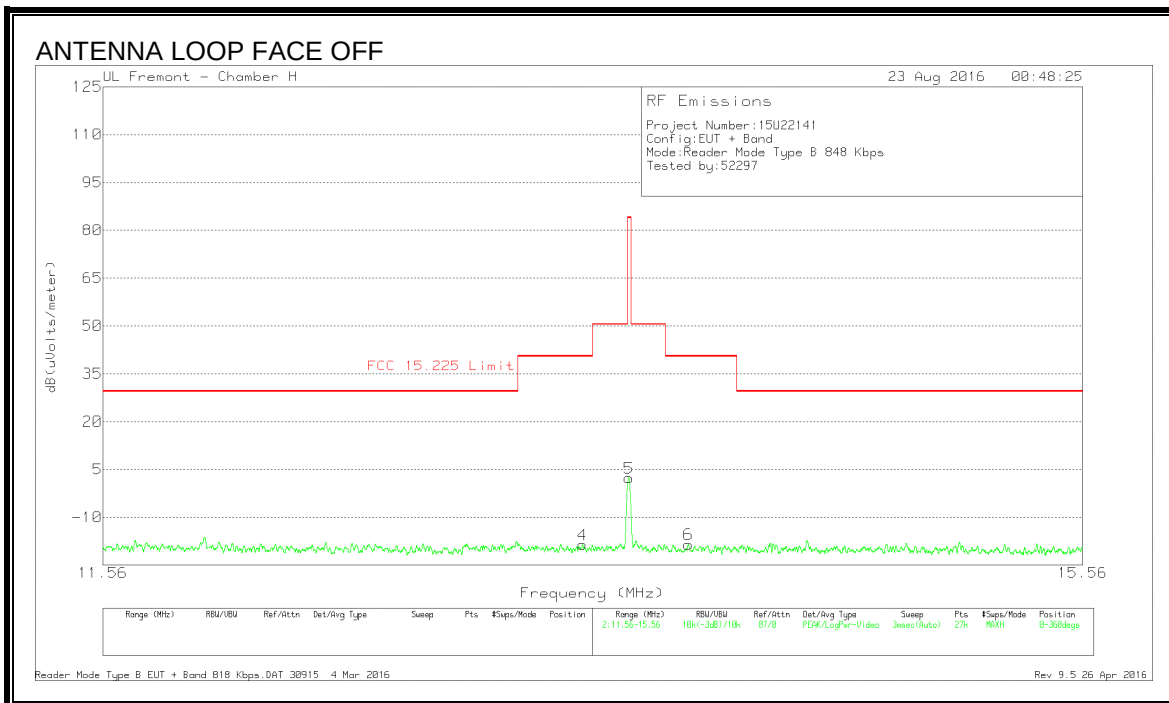
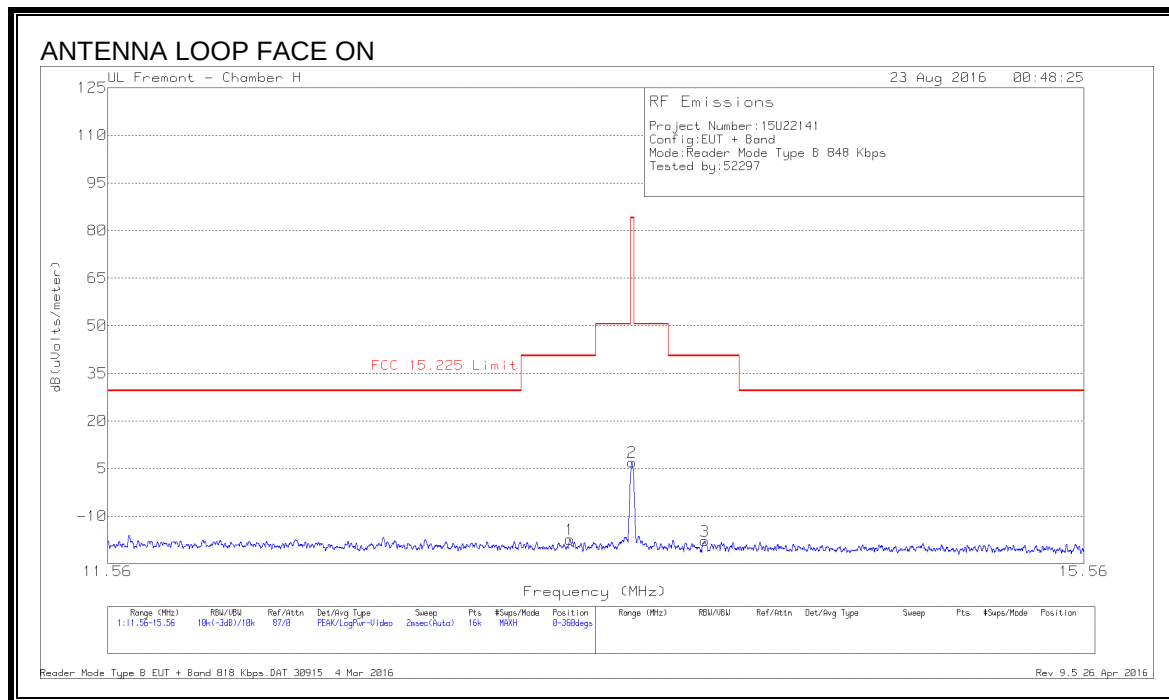
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuV olts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	13.47928	14.12	Pk	10.7	.6	-40	-14.58	29.54	-44.12	-	-	0-360
1	13.48085	18.1	Pk	10.7	.6	-40	-10.6	29.54	-40.14	-	-	0-360
2	13.63805	17.24	Pk	10.6	.6	-40	-11.56	29.54	-41.1	-	-	0-360
5	13.63805	14.23	Pk	10.6	.6	-40	-14.57	29.54	-44.11	-	-	0-360
6	19.26581	10.46	Pk	9.9	.7	-40	-18.94	29.54	-48.48	-	-	0-360
3	20.40944	10.63	Pk	9.7	.8	-40	-18.87	29.54	-48.41	-	-	0-360

Pk - Peak detector

TYPE B

848Kbps FUNDAMENTAL

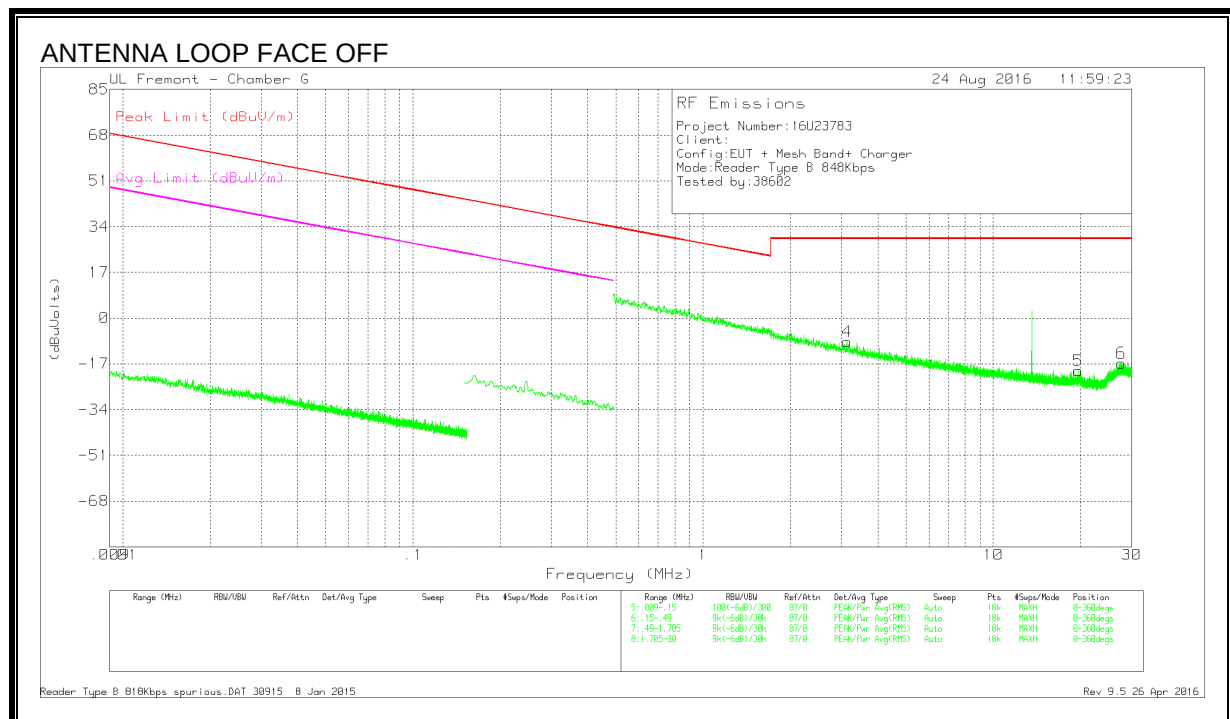
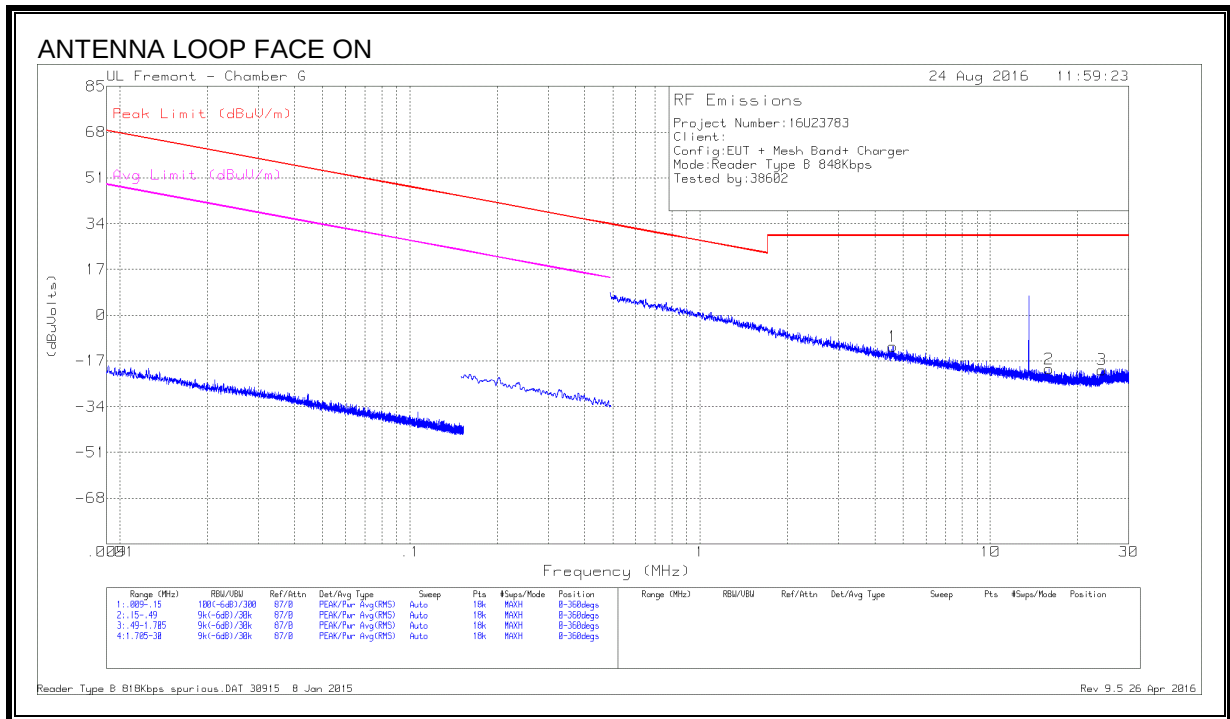


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
1	13.30688	11.38	Pk	10.7	.6	-40	-17.32	40.51	-57.83	0-360
4	13.37041	10.13	Pk	10.7	.6	-40	-18.57	40.51	-59.08	0-360
5	13.55948	31.12	Pk	10.6	.6	-40	2.32	84	-81.68	0-360
2	13.56	35.82	Pk	10.6	.6	-40	7.02	84	-76.98	0-360
6	13.80649	10.35	Pk	10.6	.6	-40	-18.45	40.51	-58.96	0-360
3	13.86413	10.96	Pk	10.6	.6	-40	-17.84	40.51	-58.35	0-360

Pk - Peak detector

SPURIOUS EMISSION

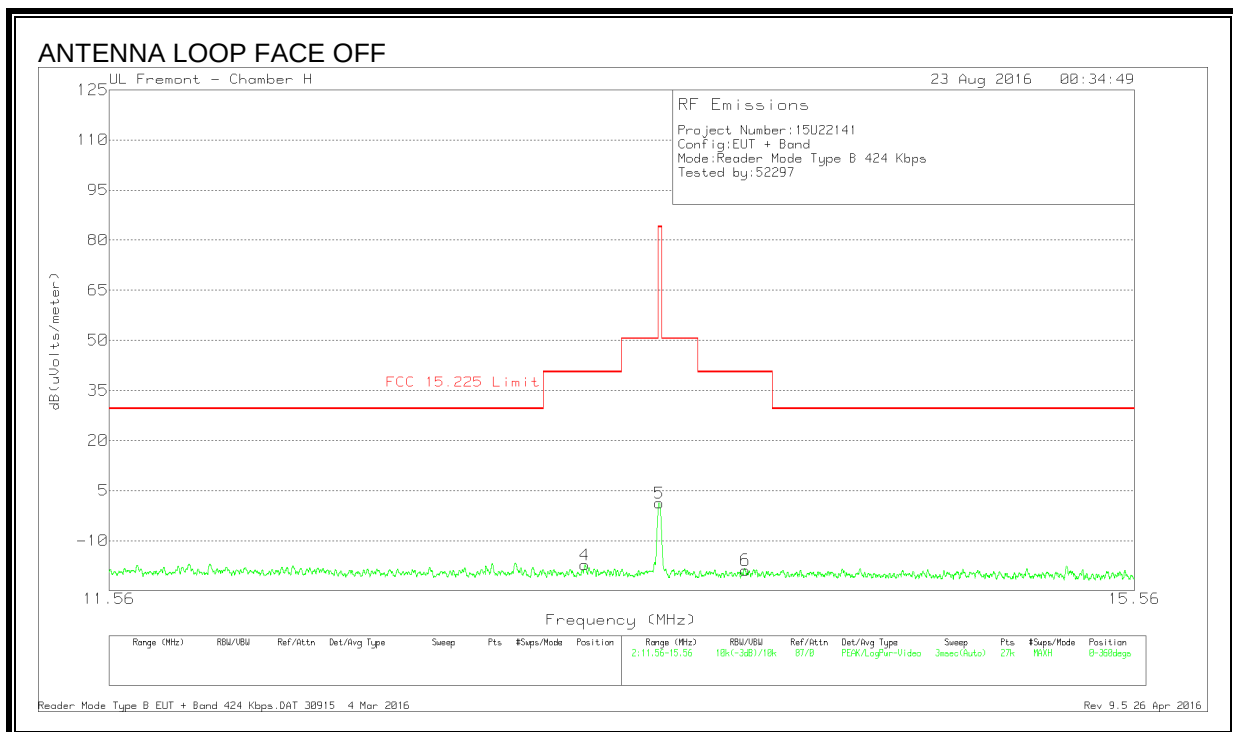
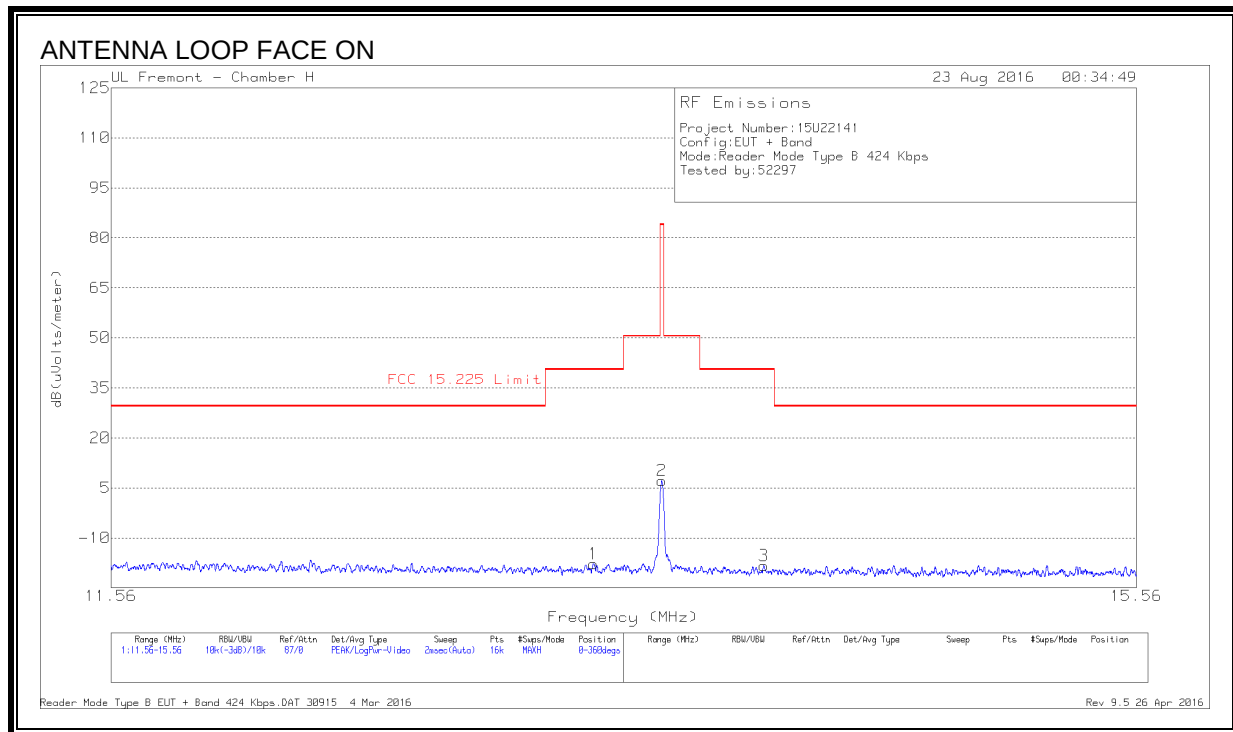


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	3.12766	19.12	Pk	11.8	.3	-40	-8.78	29.54	-38.32	-	-	0-360
1	4.61949	16.65	Pk	11.5	.3	-40	-11.55	29.54	-41.09	-	-	0-360
2	15.96304	8.9	Pk	10.4	.7	-40	-20	29.54	-49.54	-	-	0-360
5	19.59436	9.86	Pk	9.9	.7	-40	-19.54	29.54	-49.08	-	-	0-360
3	24.23019	9.68	Pk	9.2	.8	-40	-20.32	29.54	-49.86	-	-	0-360
6	27.5644	13.69	Pk	8.7	.9	-40	-16.71	29.54	-46.25	-	-	0-360

Pk - Peak detector

424Kbps FUNDAMENTAL

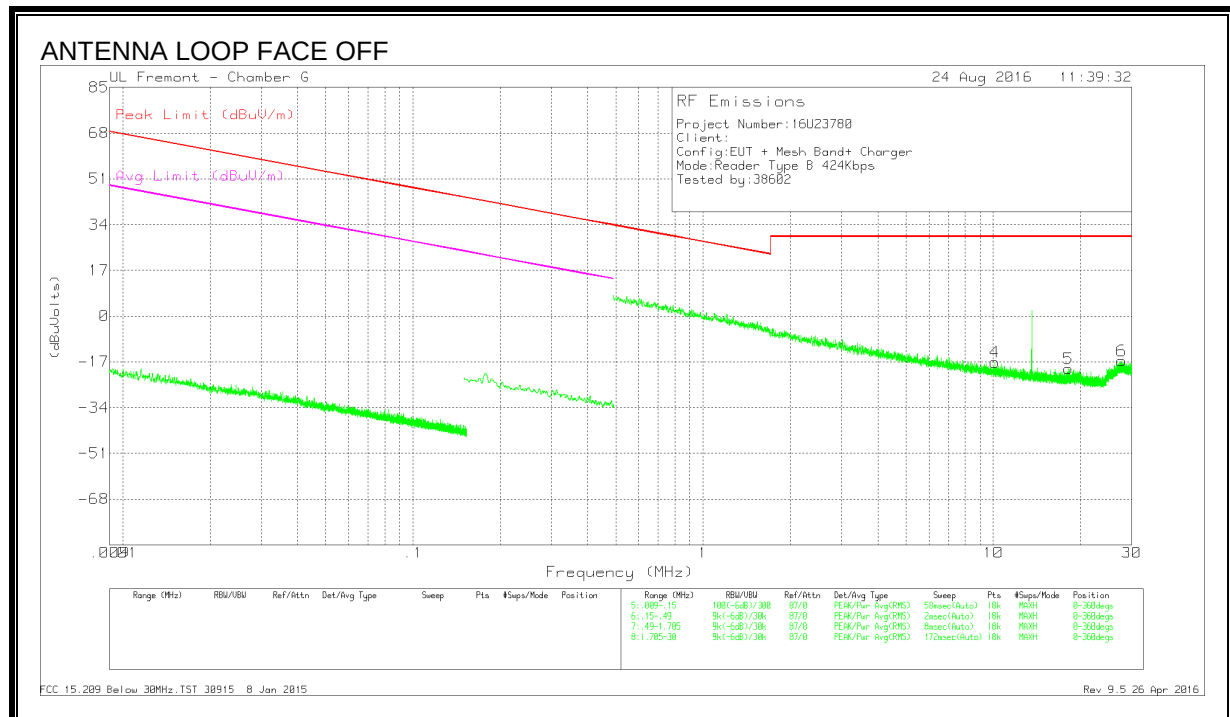
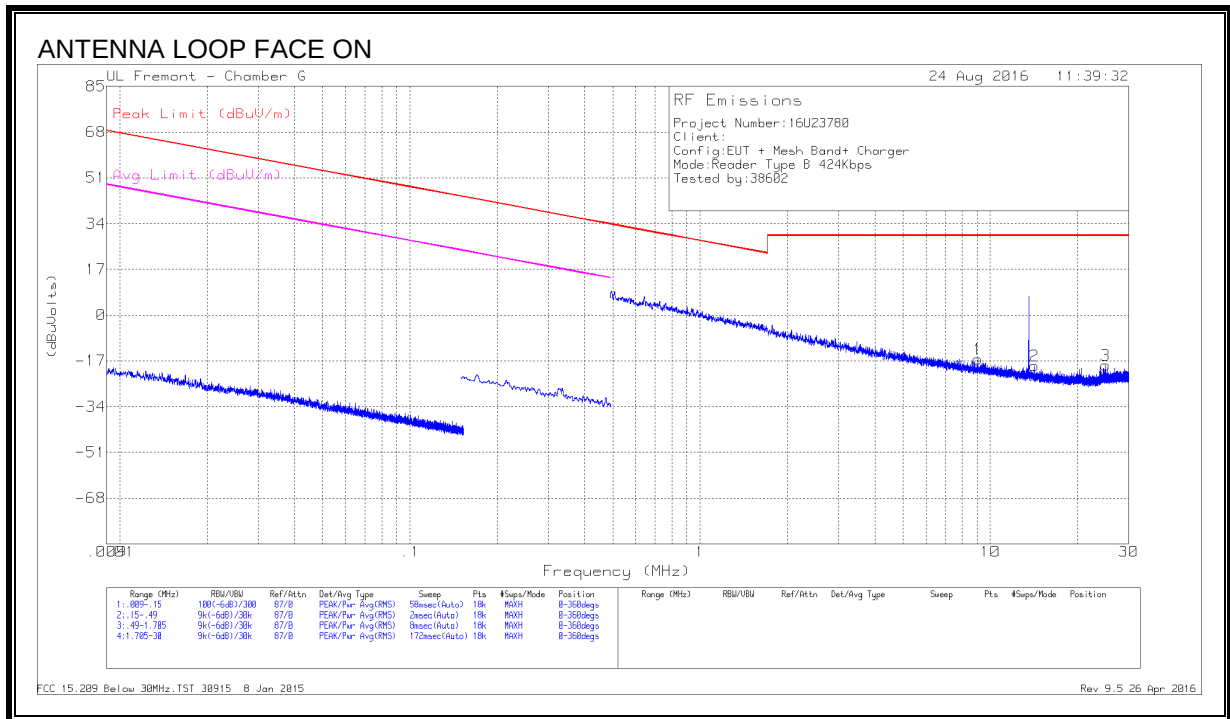


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
4	13.26977	11.45	Pk	10.7	.6	-40	-17.25	40.51	-57.76	0-360
1	13.29488	10.98	Pk	10.7	.6	-40	-17.72	40.51	-58.23	0-360
5	13.55933	30.04	Pk	10.6	.6	-40	1.24	84	-82.76	0-360
2	13.56025	36.01	Pk	10.6	.6	-40	7.21	84	-76.79	0-360
6	13.90106	9.95	Pk	10.6	.6	-40	-18.85	40.51	-59.36	0-360
3	13.96763	10.5	Pk	10.6	.6	-40	-18.3	40.51	-58.81	0-360

Pk - Peak detector

SPURIOUS EMISSION

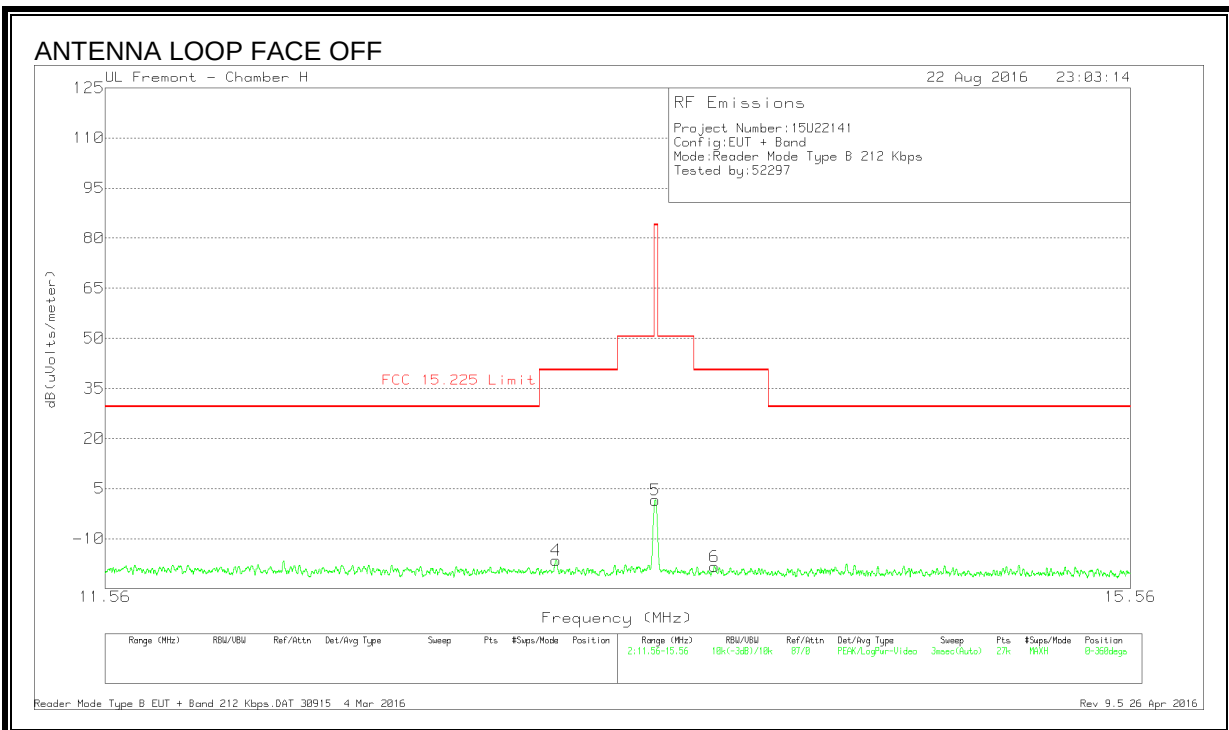
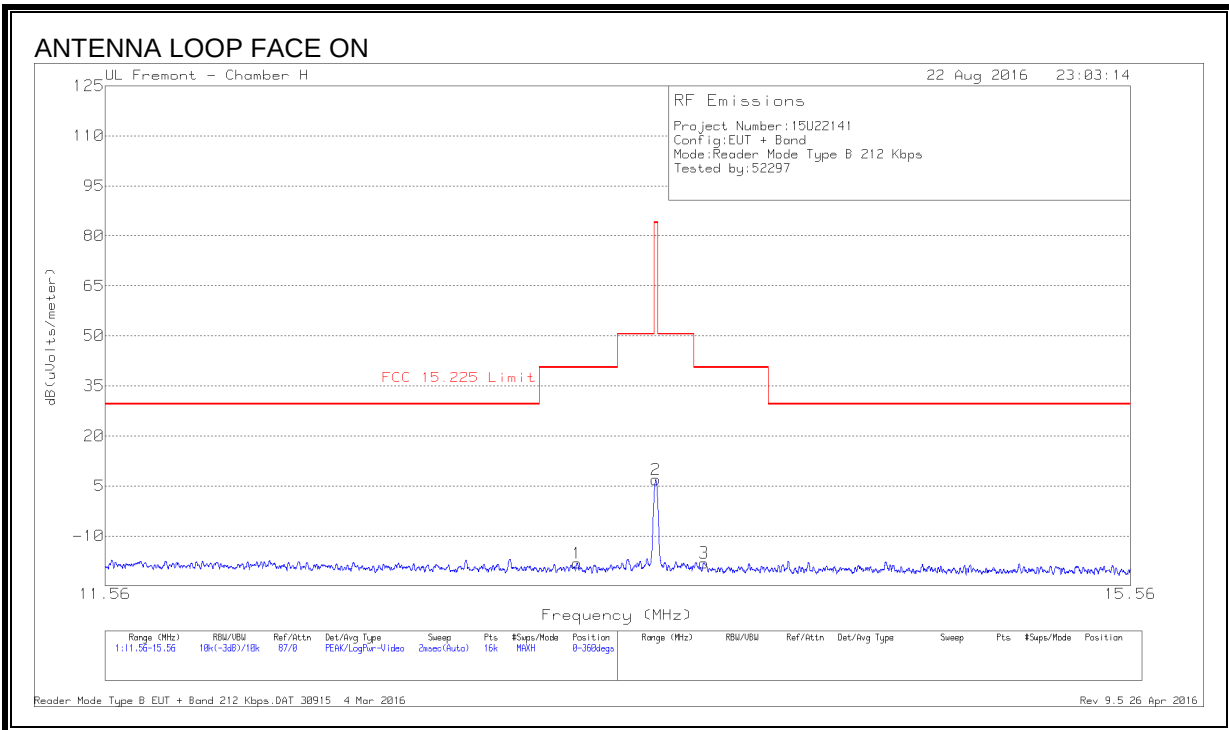


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	9.04781	12.08	Pk	11.1	.5	-40	-16.32	29.54	-45.86	-	-	0-360
4	10.1042	11.35	Pk	11	.5	-40	-17.15	29.54	-46.69	-	-	0-360
2	14.19297	10.03	Pk	10.6	.6	-40	-18.77	29.54	-48.31	-	-	0-360
5	18.18899	9.61	Pk	10.1	.7	-40	-19.59	29.54	-49.13	-	-	0-360
3	24.94388	11.43	Pk	9.1	.8	-40	-18.67	29.54	-48.21	-	-	0-360
6	27.68387	13.76	Pk	8.7	.9	-40	-16.64	29.54	-46.18	-	-	0-360

Pk - Peak detector

212Kbps FUNDAMENTAL

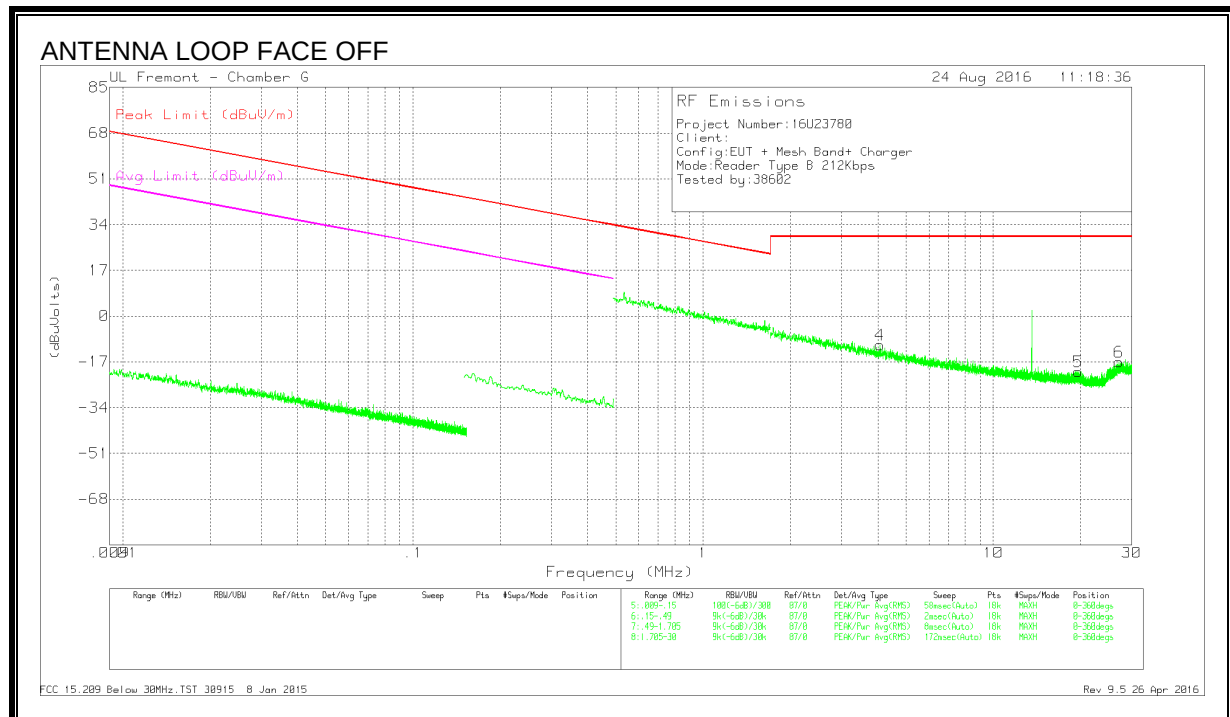
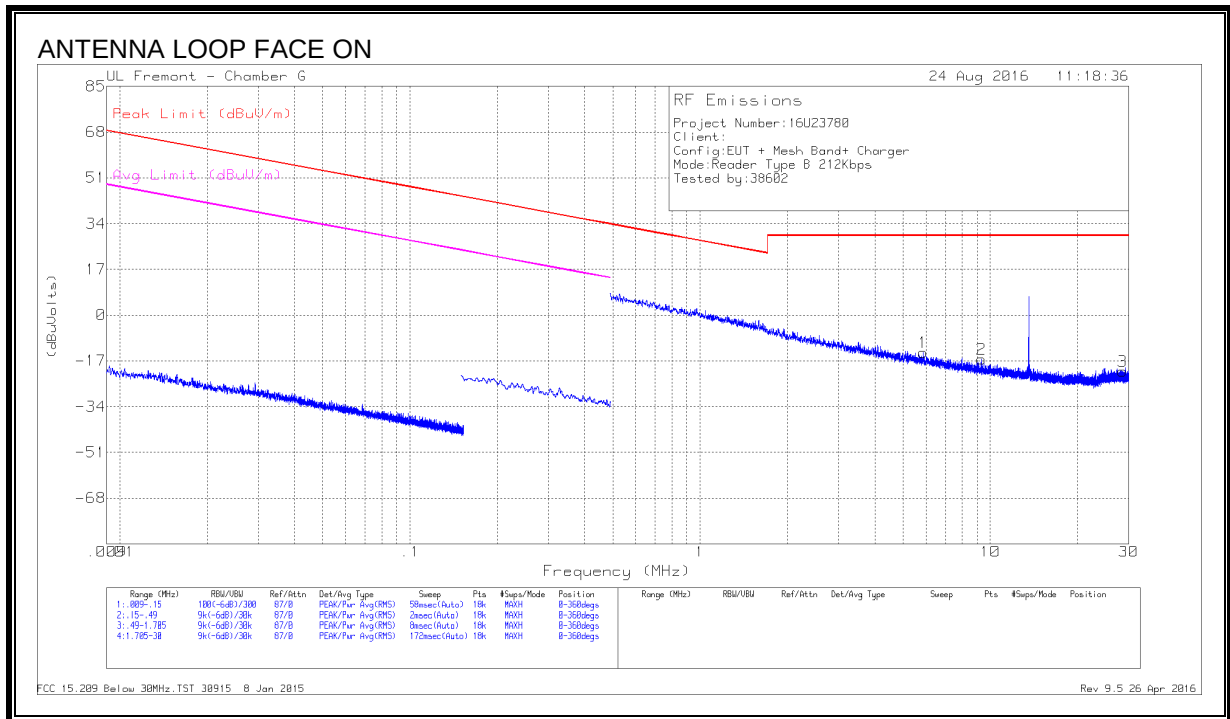


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/meter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
4	13.17431	12.22	Pk	10.7	.6	-40	-16.48	40.51	-56.99	0-360
1	13.25538	10.55	Pk	10.7	.6	-40	-18.15	40.51	-58.66	0-360
5	13.55837	30.36	Pk	10.6	.6	-40	1.56	84	-82.44	0-360
2	13.56025	35.69	Pk	10.6	.6	-40	6.89	84	-77.11	0-360
3	13.75163	10.68	Pk	10.6	.6	-40	-18.12	40.51	-58.63	0-360
6	13.7931	10.46	Pk	10.6	.6	-40	-18.34	40.51	-58.85	0-360

Pk - Peak detector

SPURIOUS EMISSION

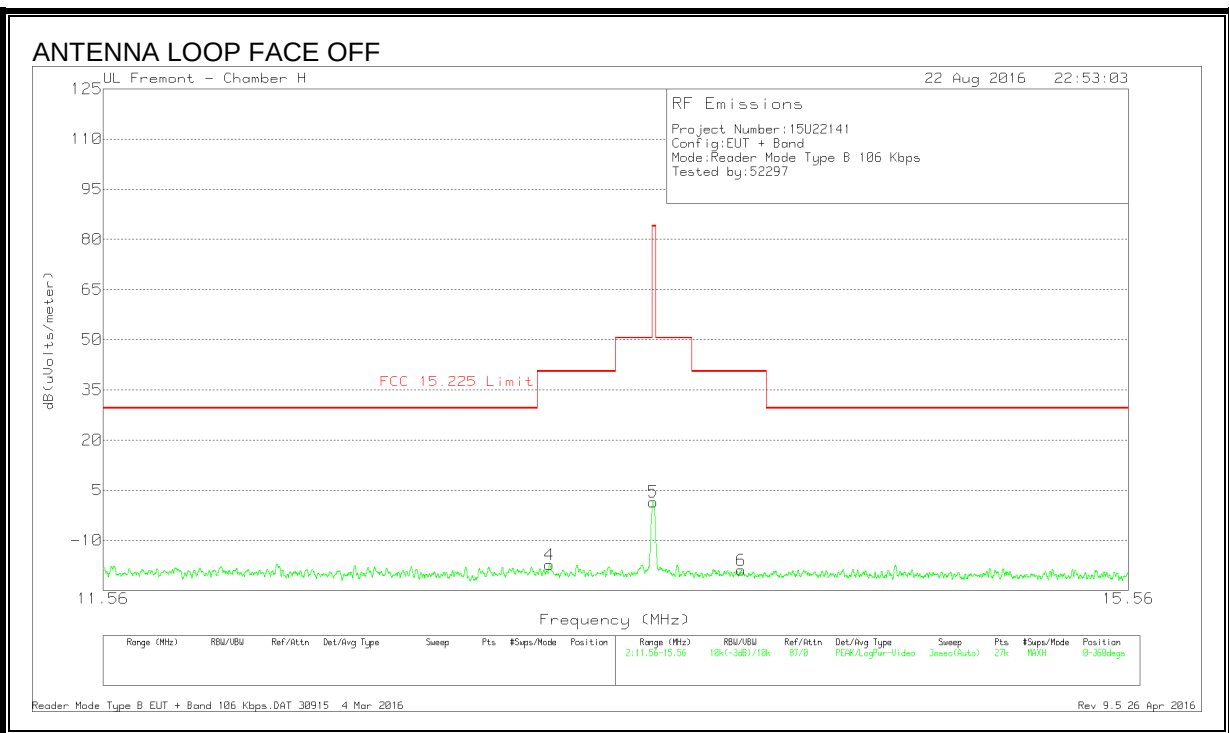
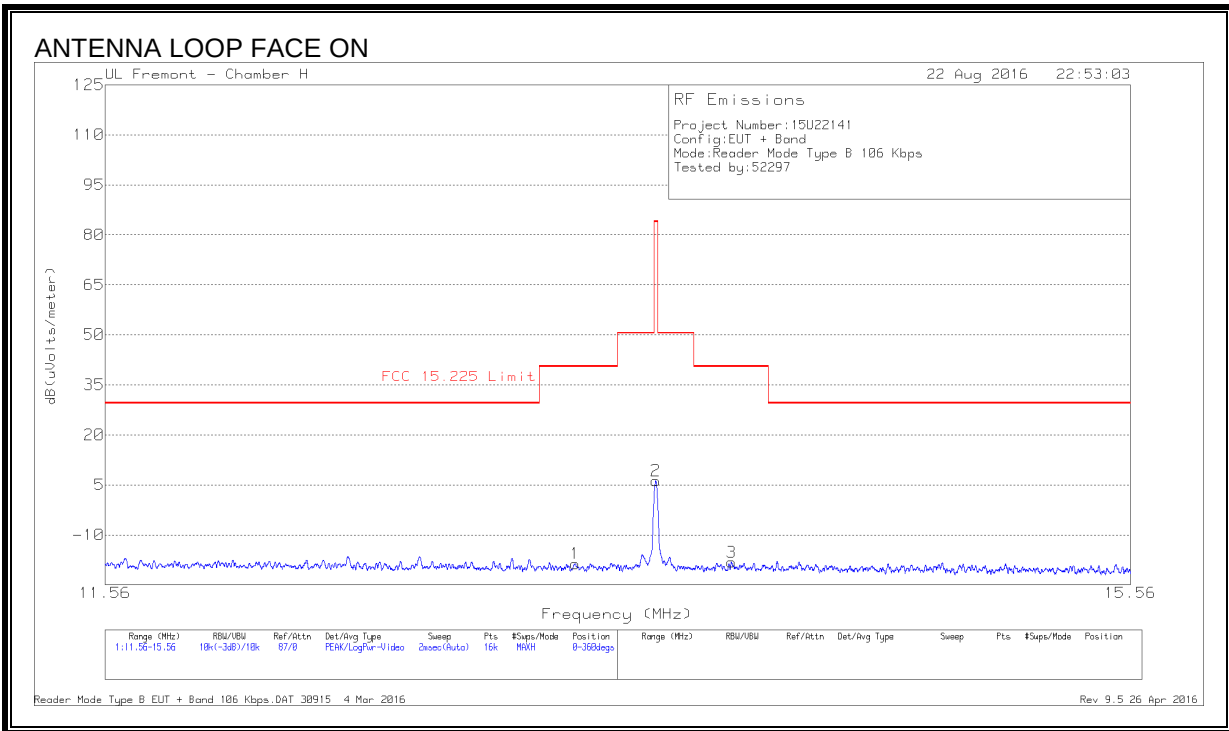


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	4.05986	17.34	Pk	11.6	.3	-40	-10.76	29.54	-40.3	-	-	0-360
1	5.86058	14.36	Pk	11.4	.4	-40	-13.84	29.54	-43.38	-	-	0-360
2	9.31977	12.04	Pk	11.1	.5	-40	-16.36	29.54	-45.9	-	-	0-360
5	19.59436	8.79	Pk	9.9	.7	-40	-20.61	29.54	-50.15	-	-	0-360
6	27.10066	13.27	Pk	8.8	.9	-40	-17.03	29.54	-46.57	-	-	0-360
3	28.51703	9.7	Pk	8.6	.9	-40	-20.8	29.54	-50.34	-	-	0-360

Pk - Peak detector

106Kbps FUNDAMENTAL

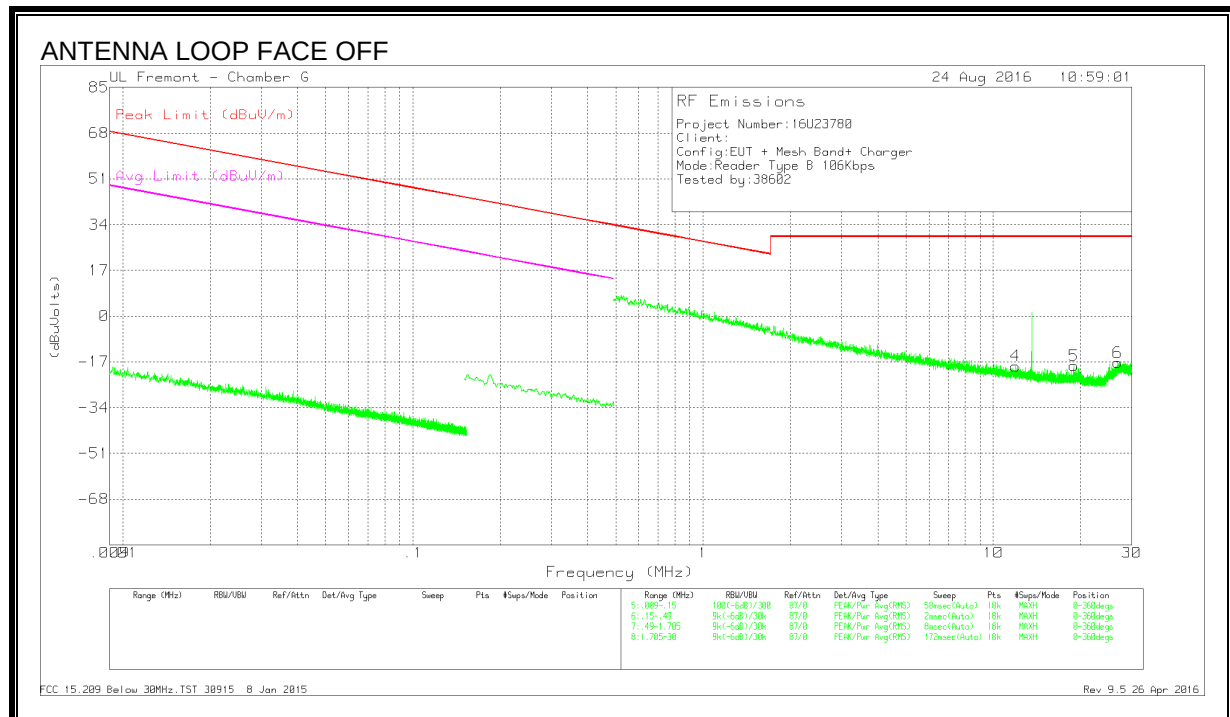
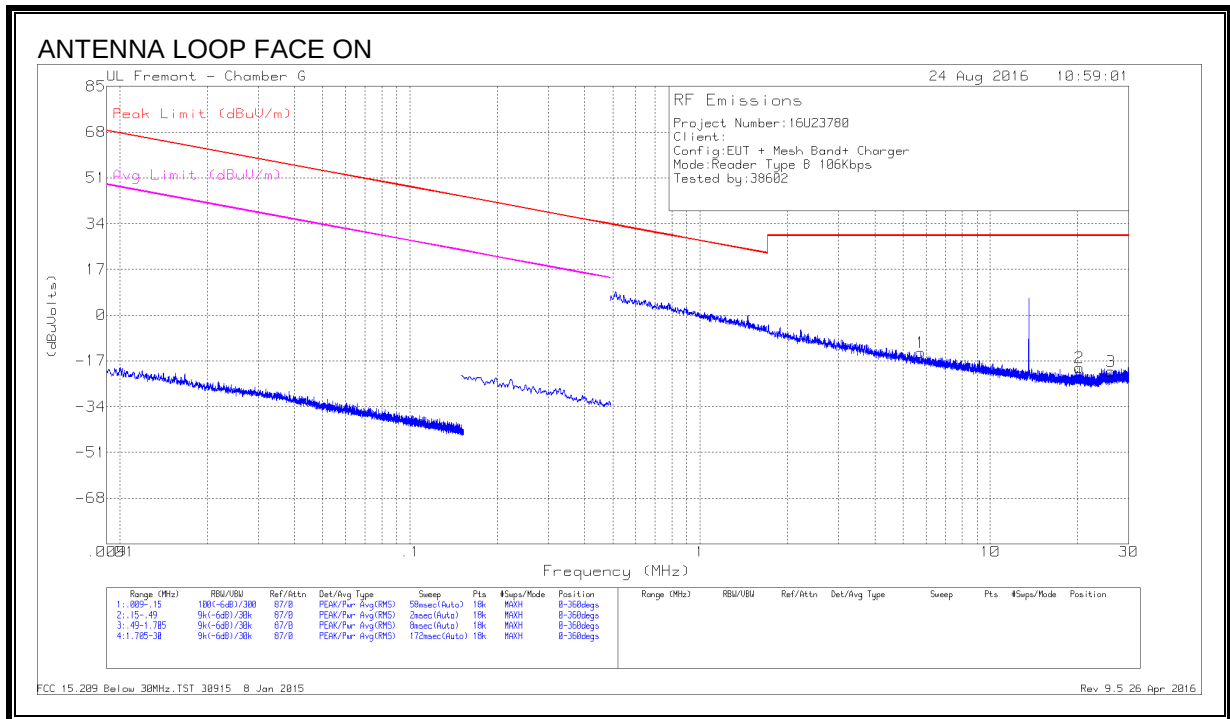


DATA

Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/m eter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
4	13.15744	11.42	Pk	10.7	.6	-40	-17.28	40.51	-57.79	0-360
1	13.24763	10.08	Pk	10.7	.6	-40	-18.62	40.51	-59.13	0-360
5	13.55837	30.32	Pk	10.6	.6	-40	1.52	84	-82.48	0-360
2	13.56013	35.08	Pk	10.6	.6	-40	6.28	84	-77.72	0-360
3	13.86088	10.65	Pk	10.6	.6	-40	-18.15	40.51	-58.66	0-360
6	13.90913	9.87	Pk	10.6	.6	-40	-18.93	40.51	-59.44	0-360

Pk - Peak detector

SPURIOUS EMISSION



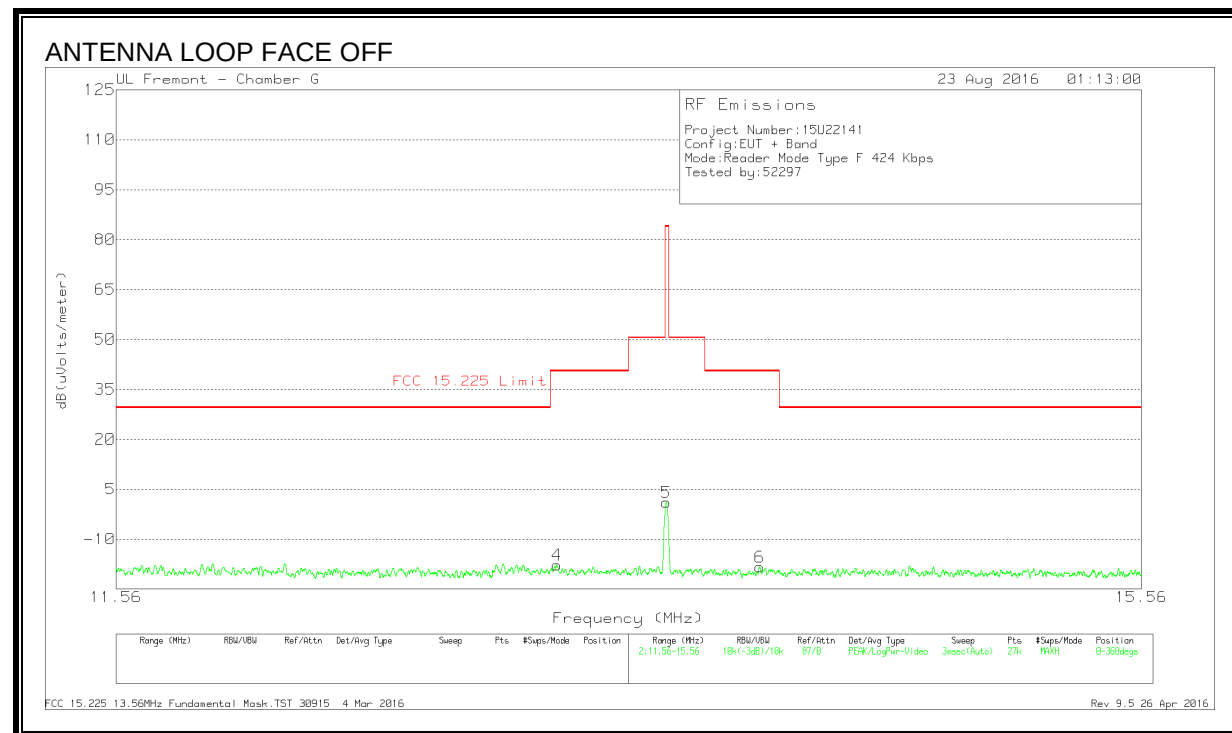
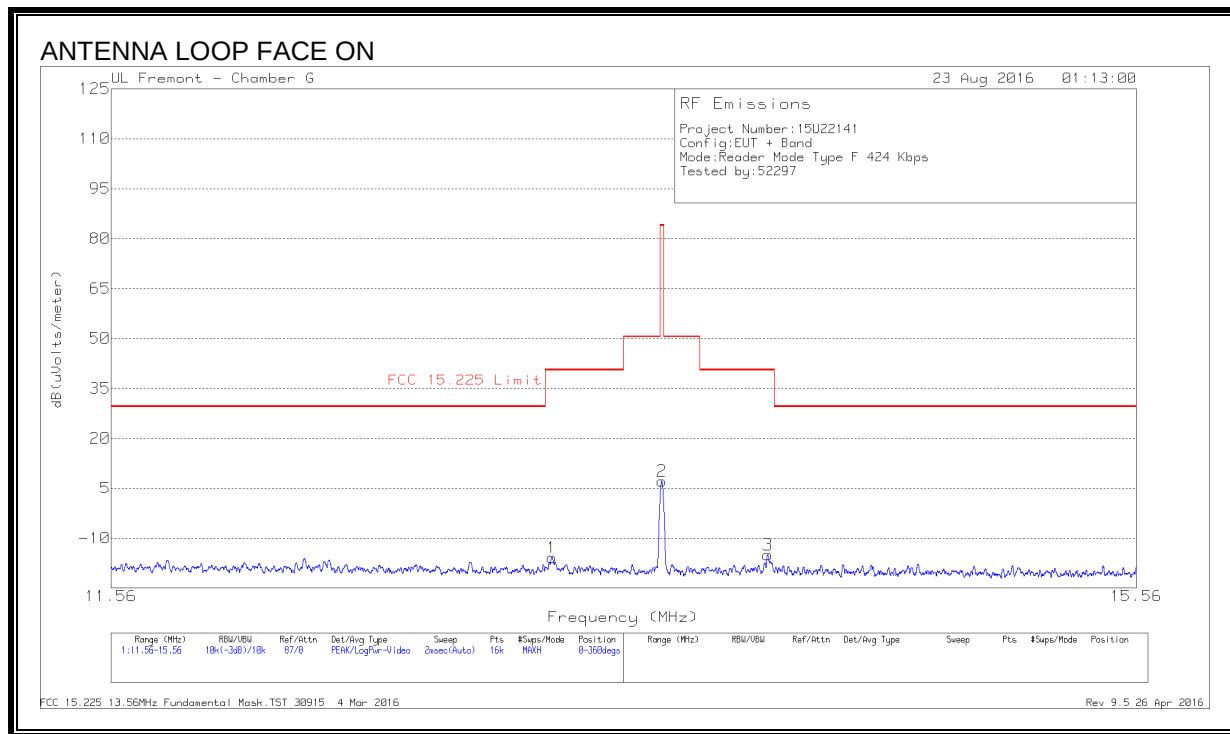
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	5.7529	14.39	Pk	11.4	.4	-40	-13.81	29.54	-43.35	-	-	0-360
4	11.92143	10.09	Pk	10.8	.6	-40	-18.51	29.54	-48.05	-	-	0-360
5	18.94041	11.05	Pk	9.9	.7	-40	-18.35	29.54	-47.89	-	-	0-360
2	20.24595	9.97	Pk	9.8	.8	-40	-19.43	29.54	-48.97	-	-	0-360
3	26.02698	9.27	Pk	9	.9	-40	-20.83	29.54	-50.37	-	-	0-360
6	26.79255	12.96	Pk	8.8	.9	-40	-17.34	29.54	-46.88	-	-	0-360

Pk - Peak detector

TYPE F

424Kbps FUNDAMENTAL

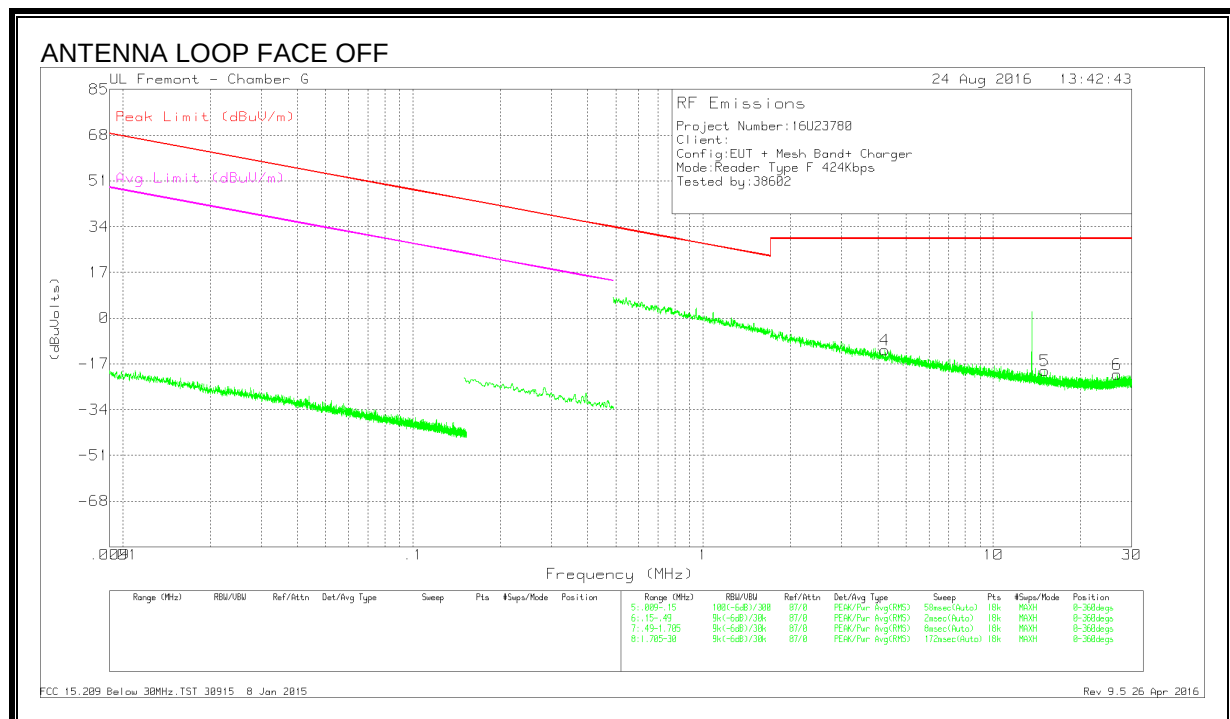
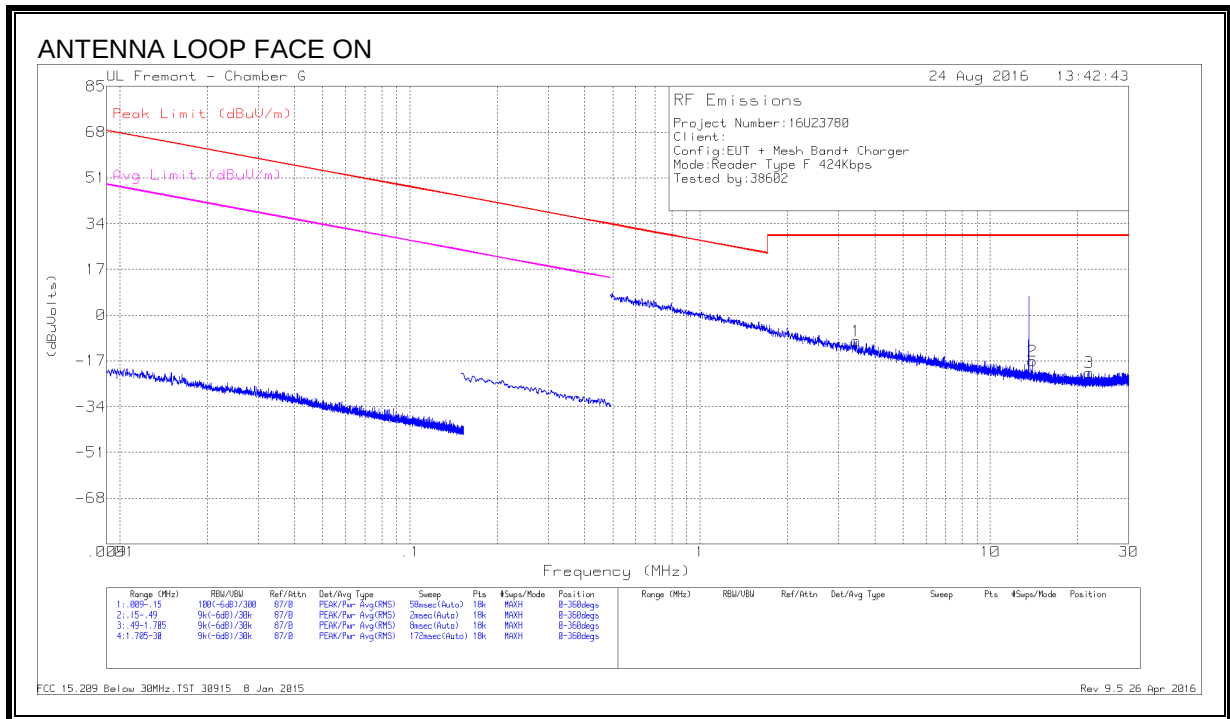


DATA

Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/m eter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
4	13.13494	10.94	Pk	10.7	.6	-40	-17.76	40.51	-58.27	0-360
1	13.13563	12.92	Pk	10.7	.6	-40	-15.78	40.51	-56.29	0-360
5	13.55837	29.87	Pk	10.6	.6	-40	1.07	84	-82.93	0-360
2	13.56	35.96	Pk	10.6	.6	-40	7.16	84	-76.84	0-360
6	13.93015	10.45	Pk	10.6	.6	-40	-18.35	40.51	-58.86	0-360
3	13.98388	13.82	Pk	10.6	.6	-40	-14.98	40.51	-55.49	0-360

Pk - Peak detector

SPURIOUS EMISSION

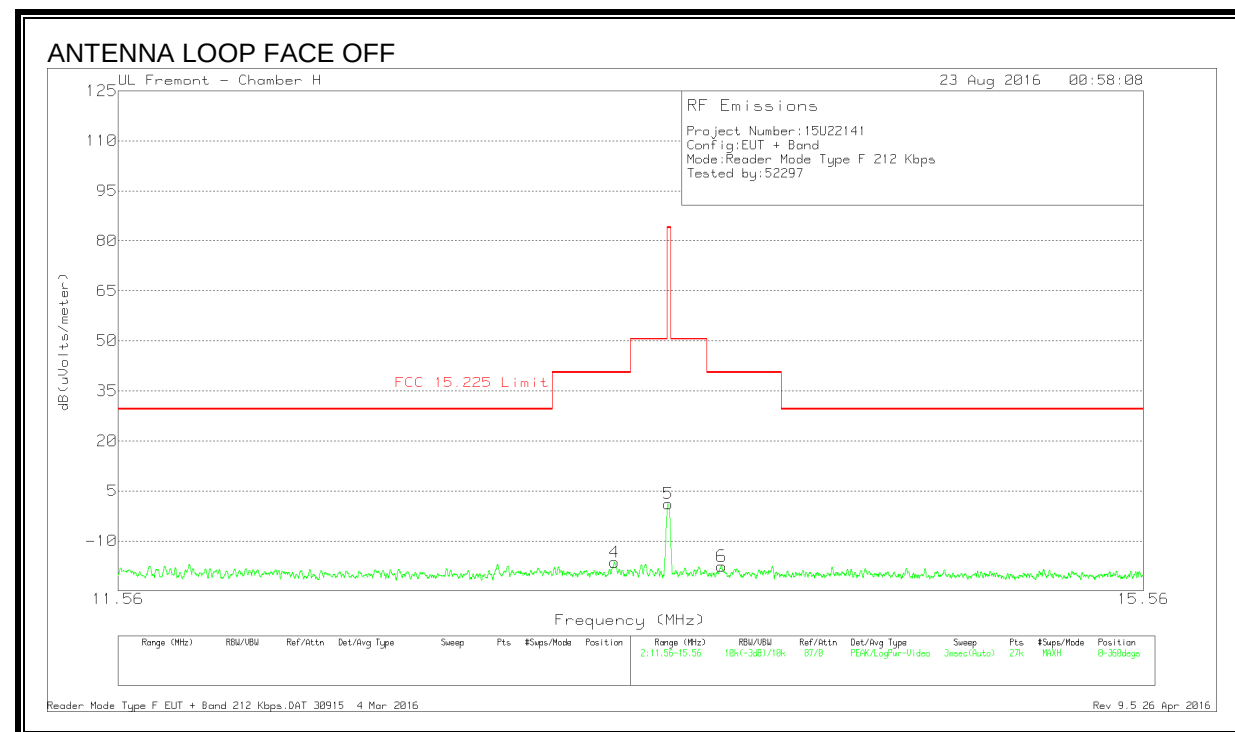
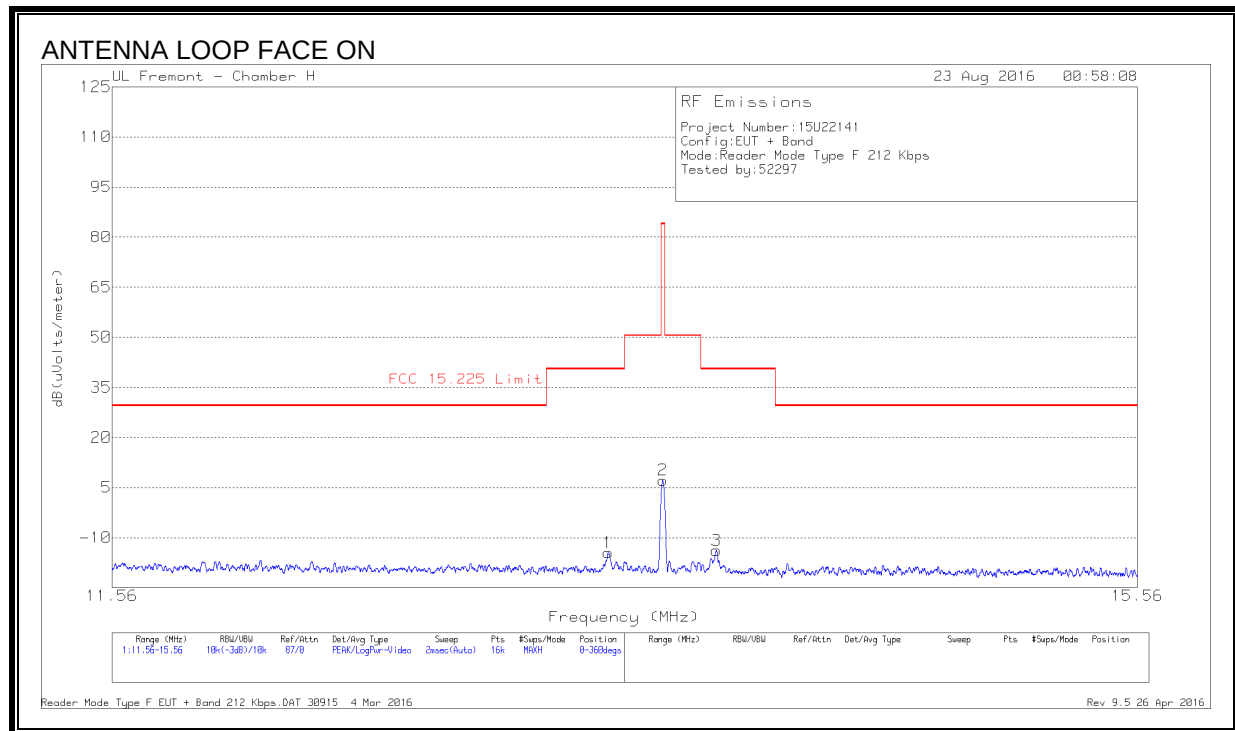


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	3.44992	18.42	Pk	11.7	.3	-40	-9.58	29.54	-39.12	-	-	0-360
4	4.23278	16.34	Pk	11.6	.3	-40	-11.76	29.54	-41.3	-	-	0-360
2	13.98389	11.81	Pk	10.6	.6	-40	-16.99	29.54	-46.53	-	-	0-360
5	15.03556	9.37	Pk	10.5	.6	-40	-19.53	29.54	-49.07	-	-	0-360
3	21.92799	8.31	Pk	9.5	.8	-40	-21.39	29.54	-50.93	-	-	0-360
6	26.73831	9.32	Pk	8.9	.9	-40	-20.88	29.54	-50.42	-	-	0-360

Pk - Peak detector

212Kbps FUNDAMENTAL

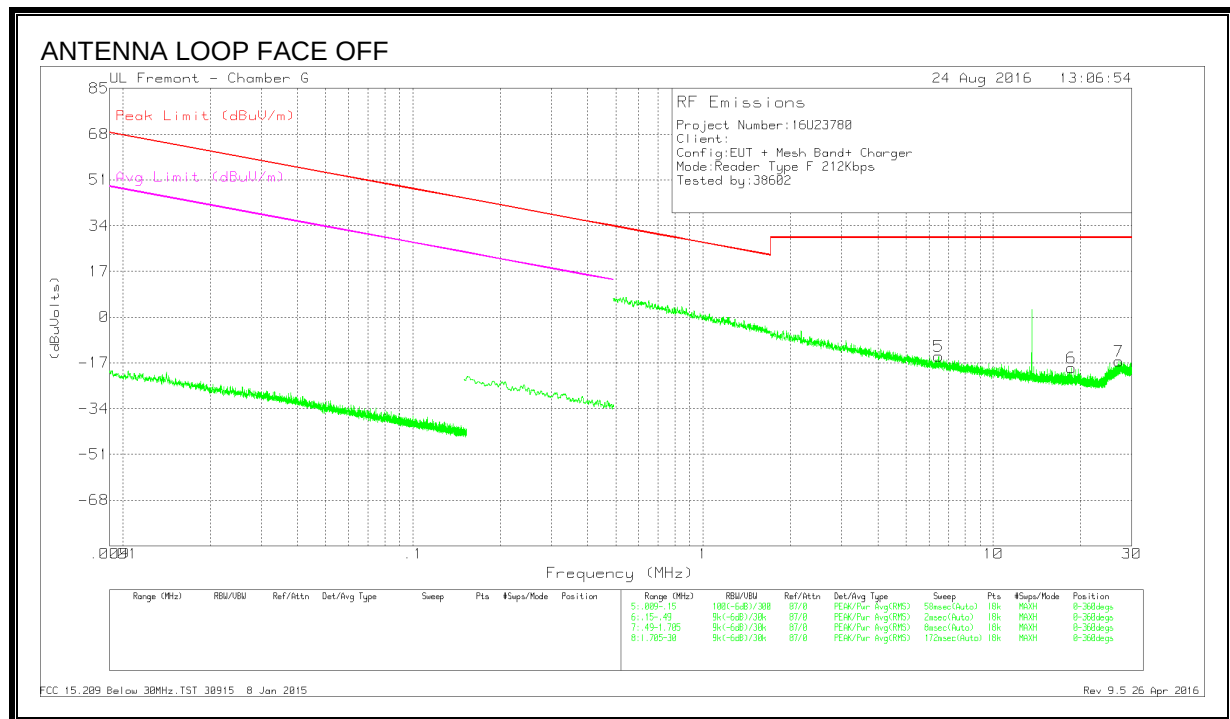
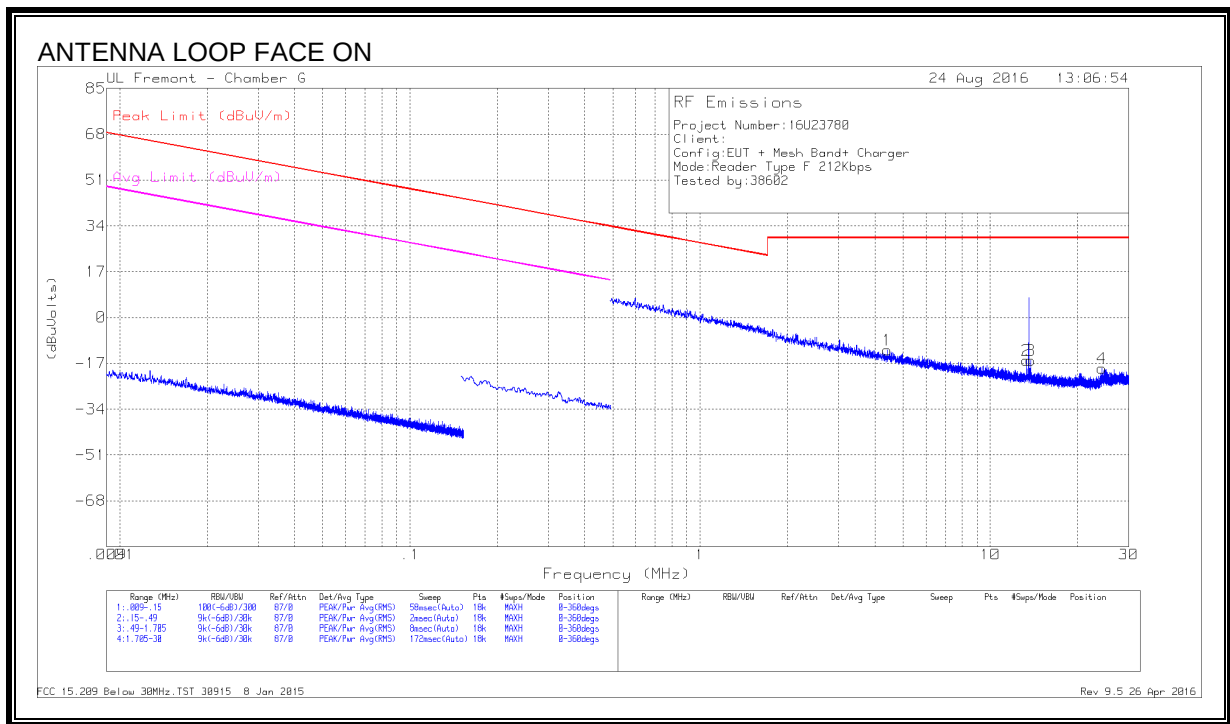


DATA

Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading dB(uVolts/me ter)	FCC 15.225 Limit	PK Margin (dB)	Azimuth (Degs)
1	13.34775	14.23	Pk	10.7	.6	-40	-14.47	40.51	-54.98	0-360
4	13.34851	12.31	Pk	10.7	.6	-40	-16.39	40.51	-56.9	0-360
5	13.55822	29.96	Pk	10.6	.6	-40	1.16	84	-82.84	0-360
2	13.56025	36.01	Pk	10.6	.6	-40	7.21	84	-76.79	0-360
6	13.77008	11.22	Pk	10.6	.6	-40	-17.58	40.51	-58.09	0-360
3	13.77275	14.97	Pk	10.6	.6	-40	-13.83	40.51	-54.34	0-360

Pk - Peak detector

SPURIOUS EMISSION



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	4.41984	16.02	Pk	11.6	.3	-40	-12.08	29.54	-41.62	-	-	0-360
5	6.47759	13.57	Pk	11.4	.4	-40	-14.63	29.54	-44.17	-	-	0-360
2	13.34802	12.8	Pk	10.7	.6	-40	-15.9	29.54	-45.44	-	-	0-360
3	13.77246	12.83	Pk	10.6	.6	-40	-15.97	29.54	-45.51	-	-	0-360
6	18.61265	10.42	Pk	10	.7	-40	-18.88	29.54	-48.42	-	-	0-360
4	24.24669	11.06	Pk	9.2	.8	-40	-18.94	29.54	-48.48	-	-	0-360
7	27.10538	13.88	Pk	8.8	.9	-40	-16.42	29.54	-45.96	-	-	0-360

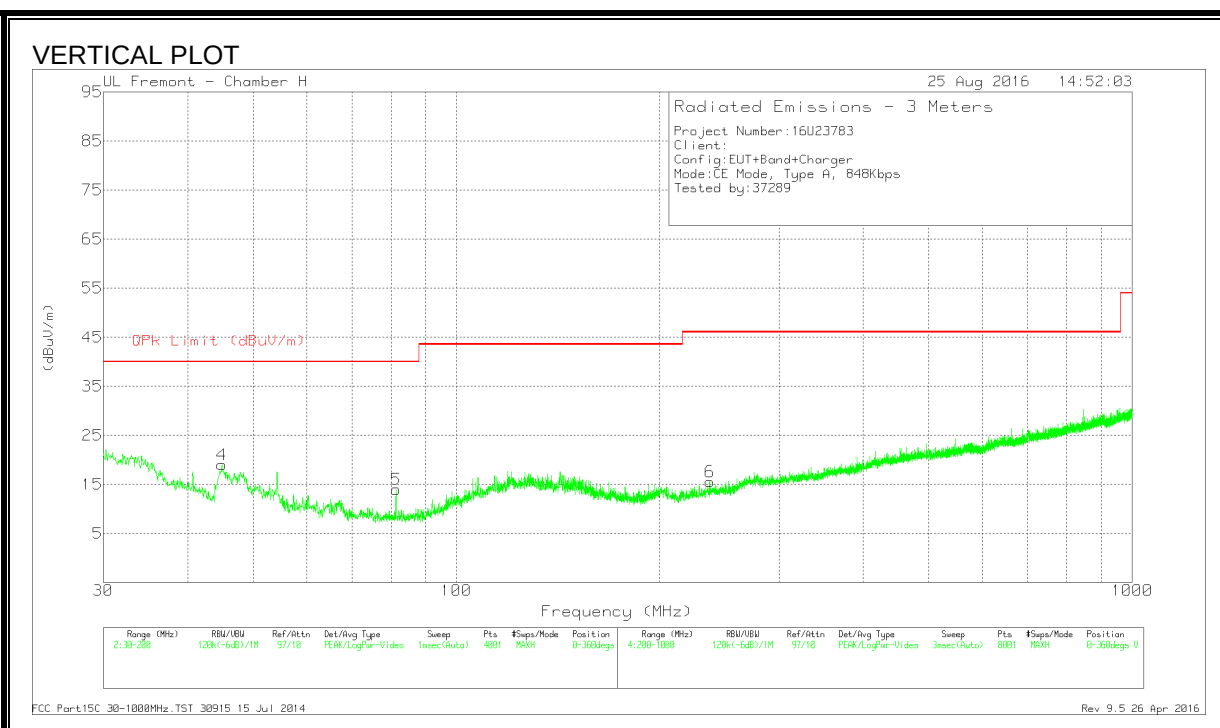
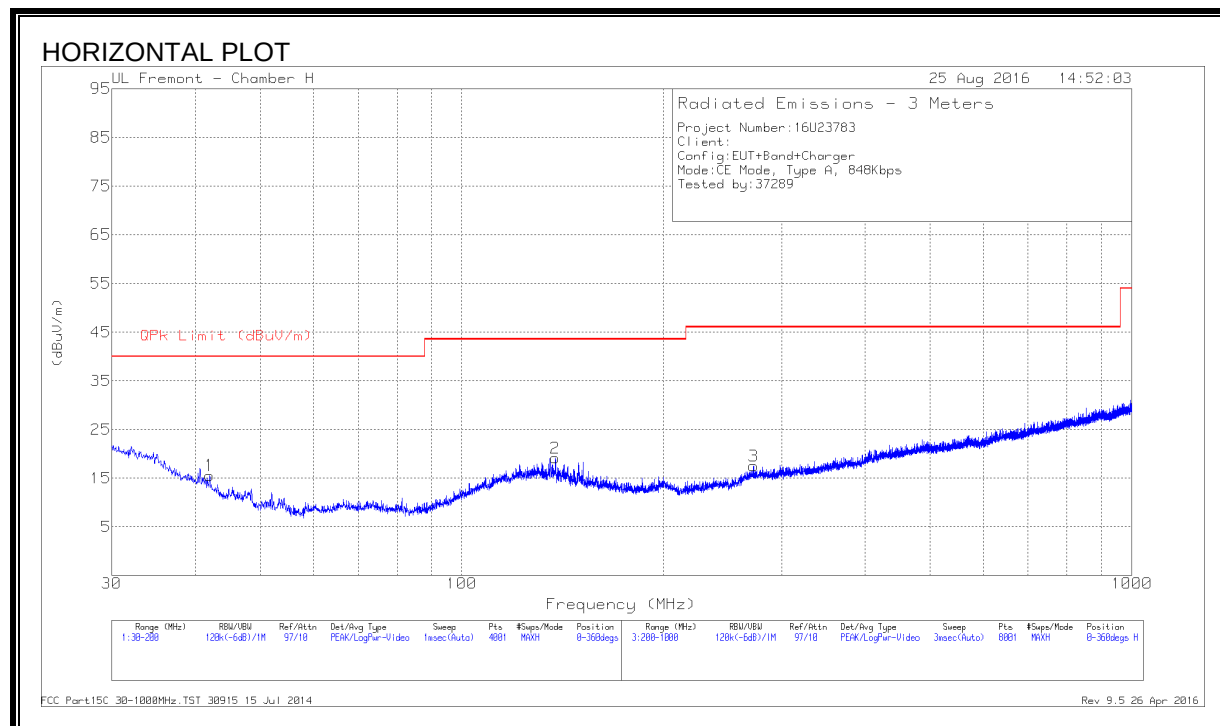
Pk - Peak detector

8.2. TX SPURIOUS EMISSION 30 TO 1000 MHz, EUT WITH AC/DC ADAPTER

8.2.1. CE MODE

TYPE A

848Kbps

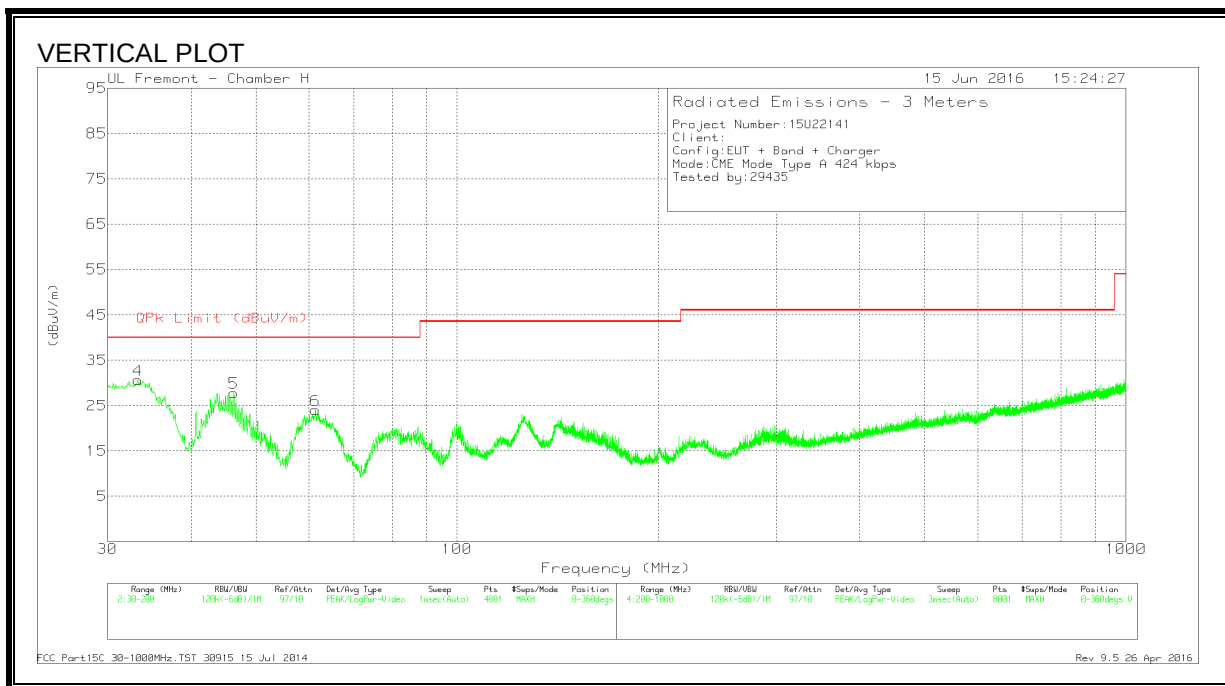
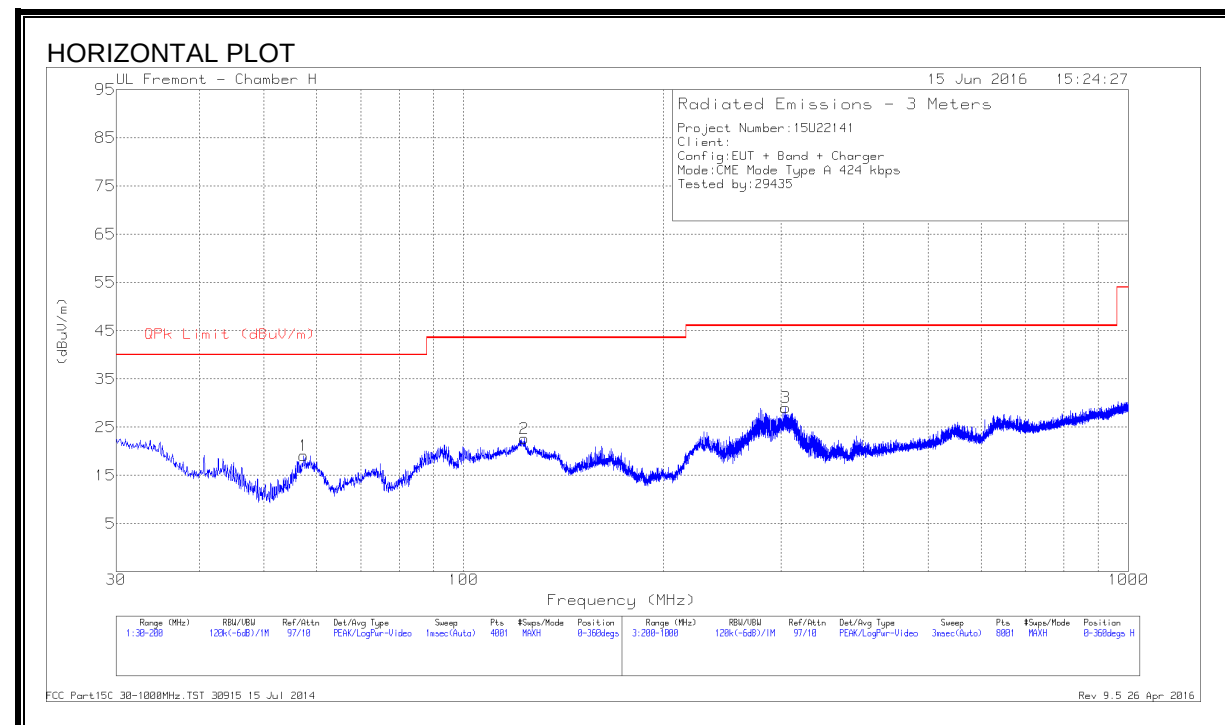


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 137.9075	32.23	Pk	17	-30.1	19.13	43.52	-24.39	0-360	199	H
3	* 272.5	29.53	Pk	17.3	-29.3	17.53	46.02	-28.49	0-360	199	H
1	42.0275	30.47	Pk	16.3	-31.2	15.57	40	-24.43	0-360	399	H
4	44.96	35.84	Pk	14.3	-31.1	19.04	40	-20.96	0-360	100	V
5	81.3825	33.28	Pk	11.4	-30.7	13.98	40	-26.02	0-360	100	V
6	237	29.65	Pk	15.4	-29.5	15.55	46.02	-30.47	0-360	301	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

424Kbps



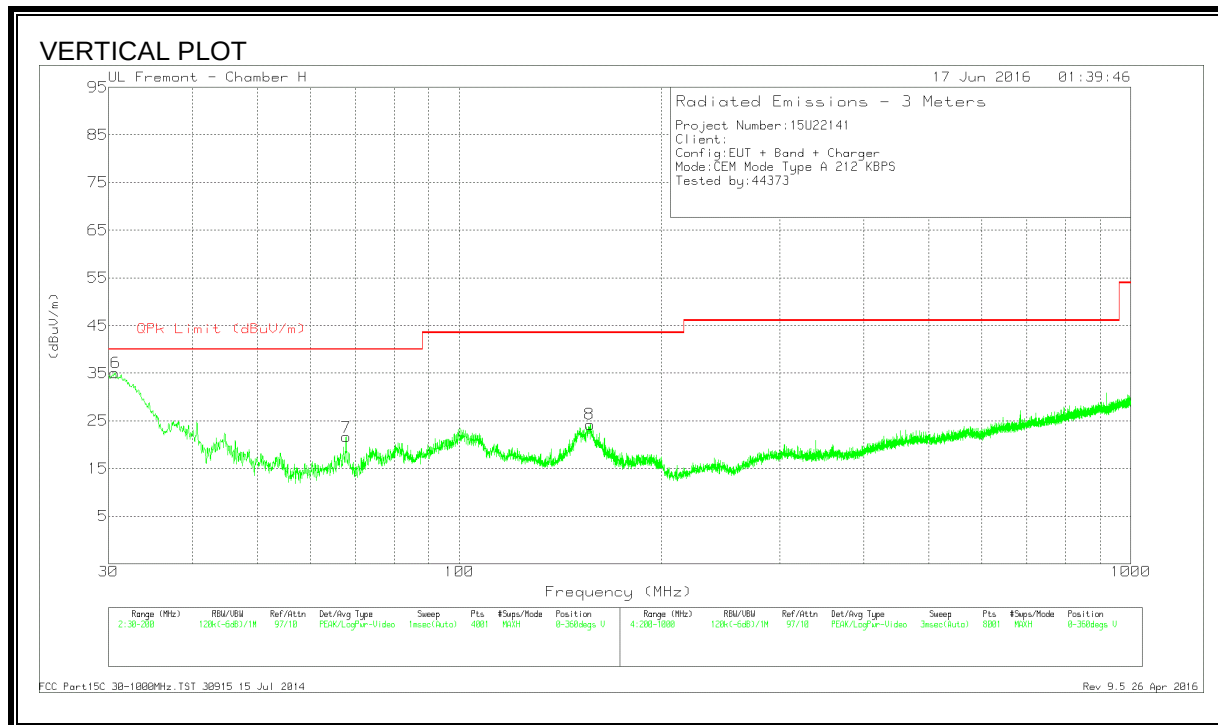
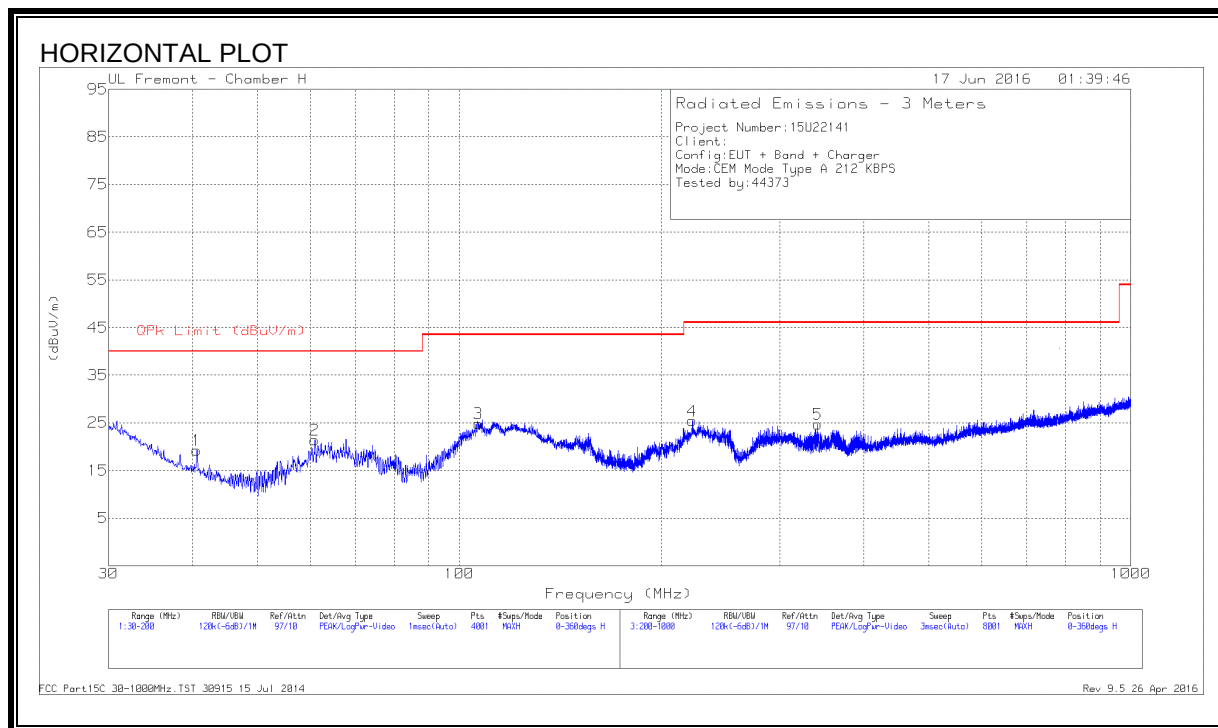
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 123.415	35.13	Pk	17.8	-30.3	22.63	43.52	-20.89	0-360	199	H
4	33.315	39.12	Pk	22.8	-31.3	30.62	40	-9.38	0-360	100	V
5	46.3625	45.3	Pk	13.5	-31	27.8	40	-12.2	0-360	100	V
1	57.4975	38.8	Pk	11.2	-30.9	19.1	40	-20.9	0-360	399	H
6	61.365	43.43	Pk	11.5	-30.9	24.03	40	-15.97	0-360	100	V
3	305	40.58	Pk	17.5	-29	29.08	46.02	-16.94	0-360	100	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

212Kbps



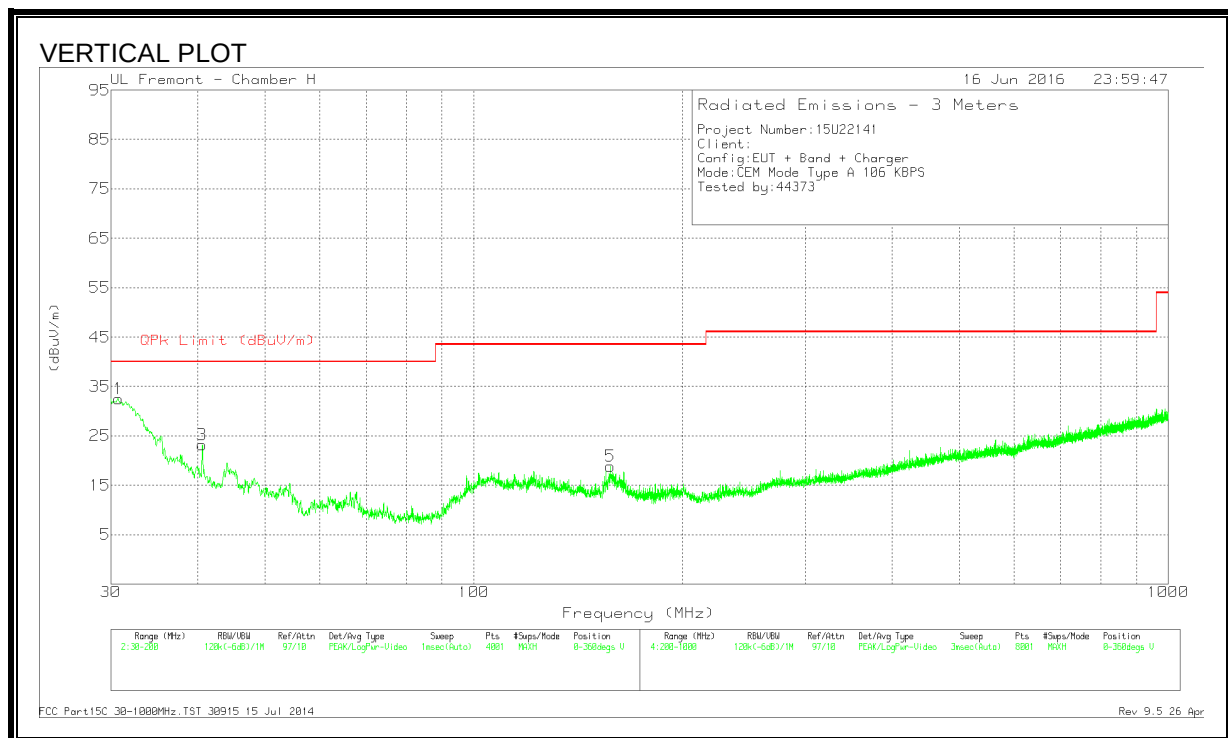
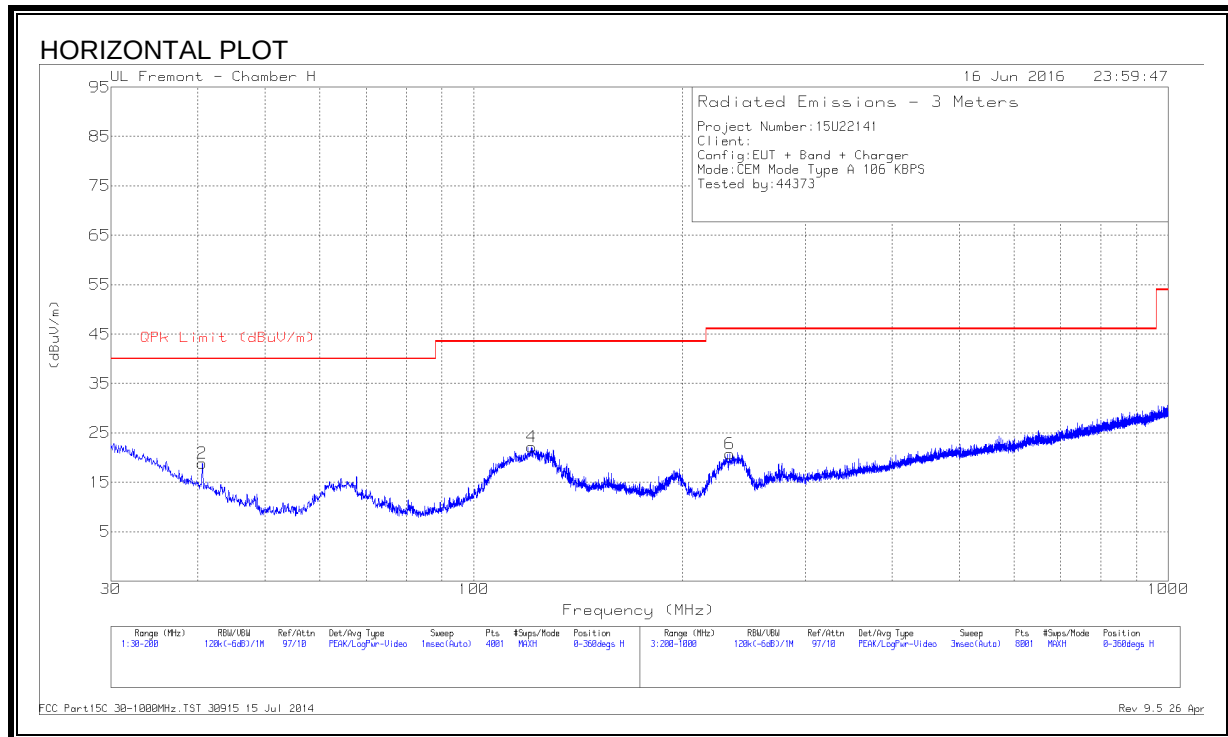
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	* 156.735	38.03	Pk	16.2	-30	24.23	43.52	-19.29	0-360	100	V
6	30.68	41.64	Pk	24.7	-31.3	35.04	40	-4.96	0-360	100	V
	30.69	32.41	Qp	21.8	-31.2	23.01	40	-16.99	77	109	V
1	40.6675	33.17	Pk	17.3	-31.2	19.27	40	-20.73	0-360	299	H
2	60.94	40.9	Pk	11.5	-31	21.4	40	-18.6	0-360	399	H
7	67.825	40.51	Pk	12	-30.8	21.71	40	-18.29	0-360	100	V
3	106.7975	39.43	Pk	15.9	-30.5	24.83	43.52	-18.69	0-360	299	H
4	222.5	40.22	Pk	14.7	-29.5	25.42	46.02	-20.6	0-360	100	H
5	341.9	35.58	Pk	18	-28.9	24.68	46.02	-21.34	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

pk - Peak detector

106Kbps



DATA

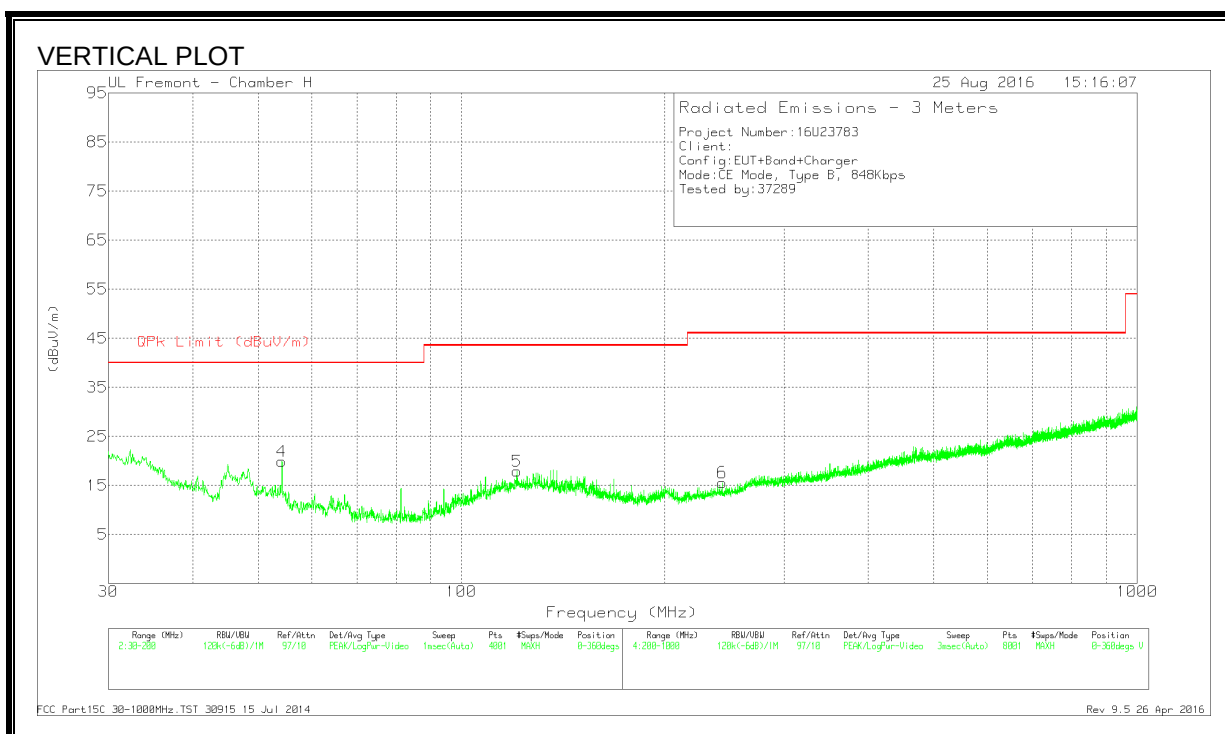
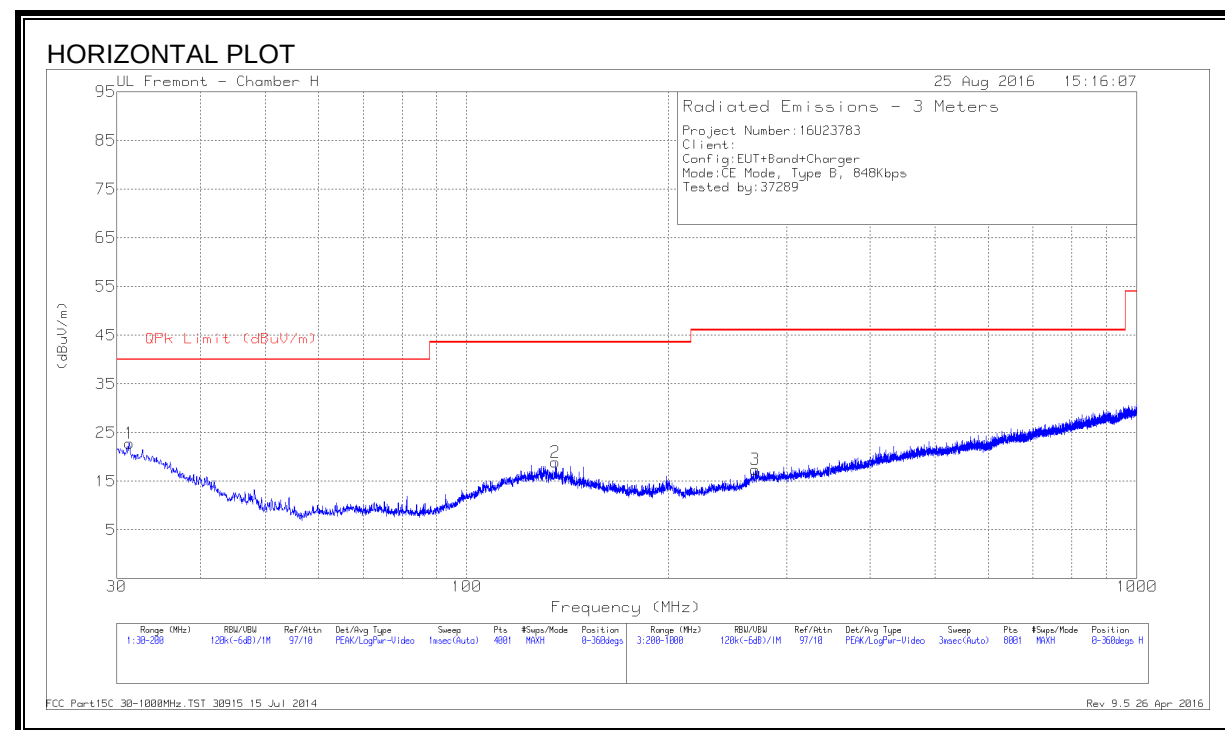
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 121.205	34.7	Pk	17.8	-30.3	22.2	43.52	-21.32	0-360	199	H
1	30.765	39.08	Pk	24.7	-31.3	32.48	40	-7.52	0-360	100	V
2	40.6675	32.72	Pk	17.3	-31.2	18.82	40	-21.18	0-360	299	H
3	40.6675	37.07	Pk	17.3	-31.2	23.17	40	-16.83	0-360	100	V
5	157.2025	32.69	Pk	16.2	-30	18.89	43.52	-24.63	0-360	100	V
6	233.6	35.1	Pk	15.2	-29.5	20.8	46.02	-25.22	0-360	100	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

TYPE B

848Kbps



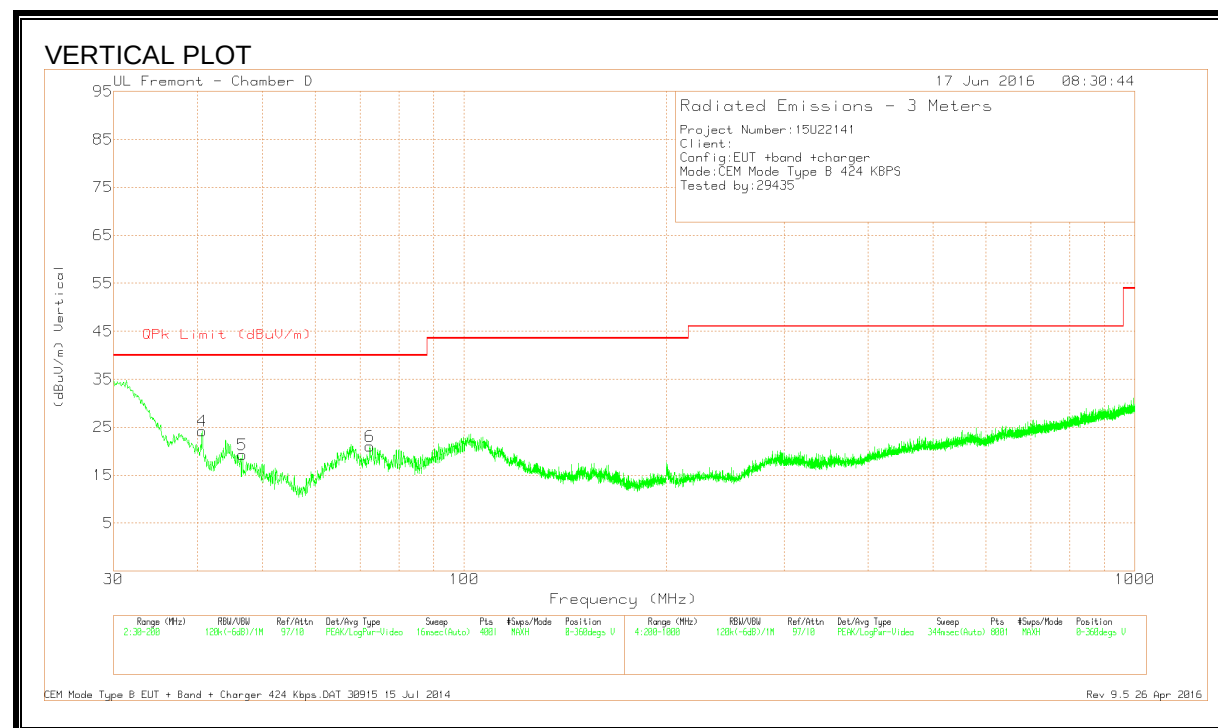
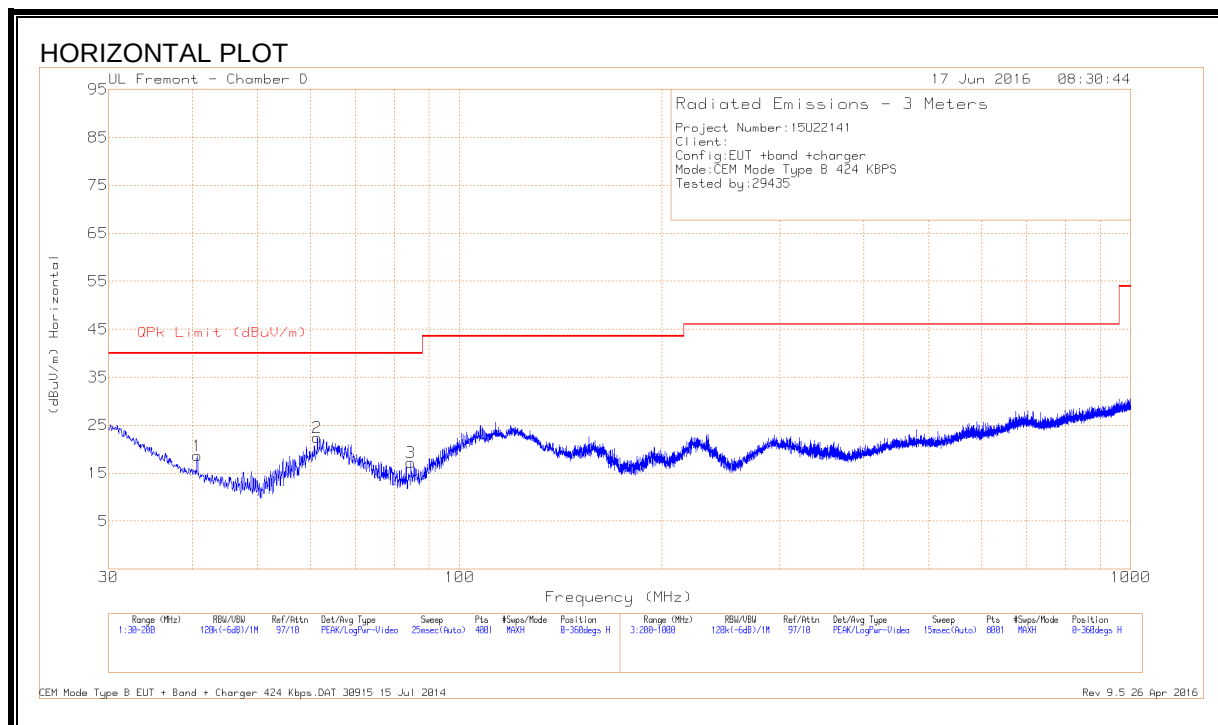
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 135.6125	31.93	Pk	17.2	-30.2	18.93	43.52	-24.59	0-360	399	H
5	* 120.8225	30.42	Pk	17.8	-30.3	17.92	43.52	-25.6	0-360	101	V
3	* 269.3	29.46	Pk	17.2	-29.2	17.46	46.02	-28.56	0-360	399	H
6	* 243.2	29.47	Pk	15.5	-29.4	15.57	46.02	-30.45	0-360	301	V
1	31.36	29.82	Pk	24.3	-31.3	22.82	40	-17.18	0-360	98	H
4	54.225	39.58	Pk	11.2	-30.9	19.88	40	-20.12	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

424Kbps

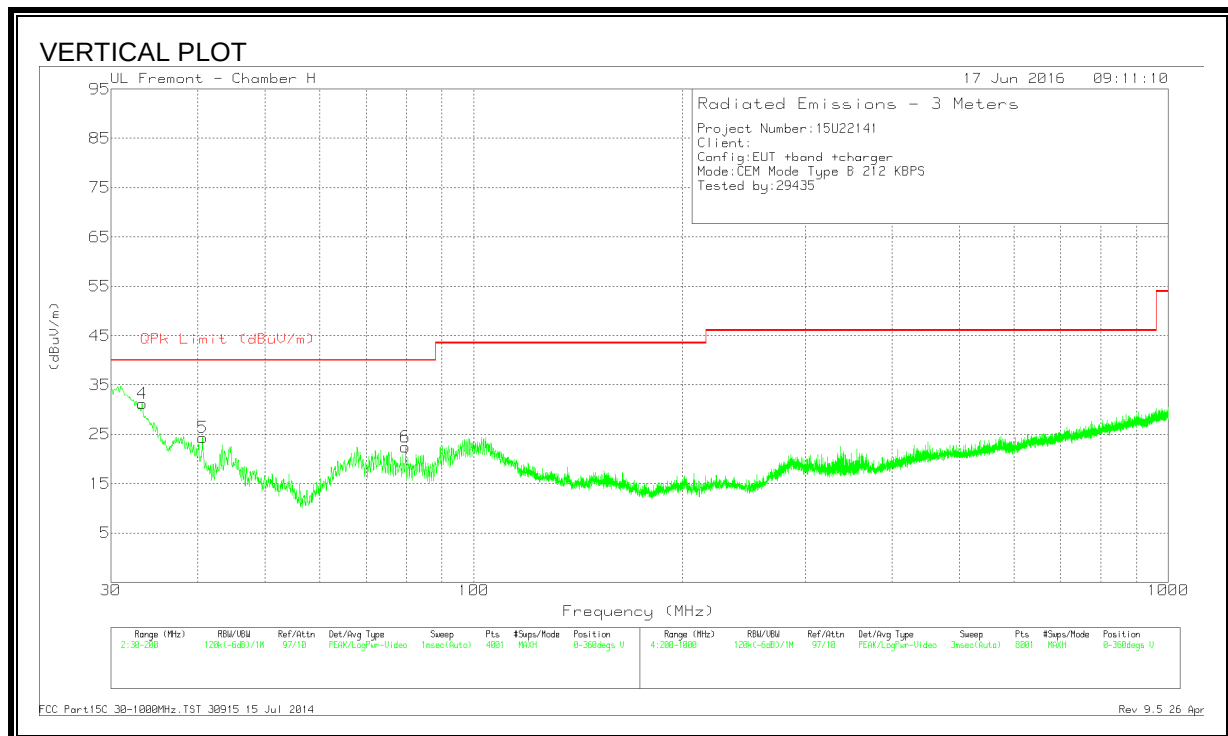
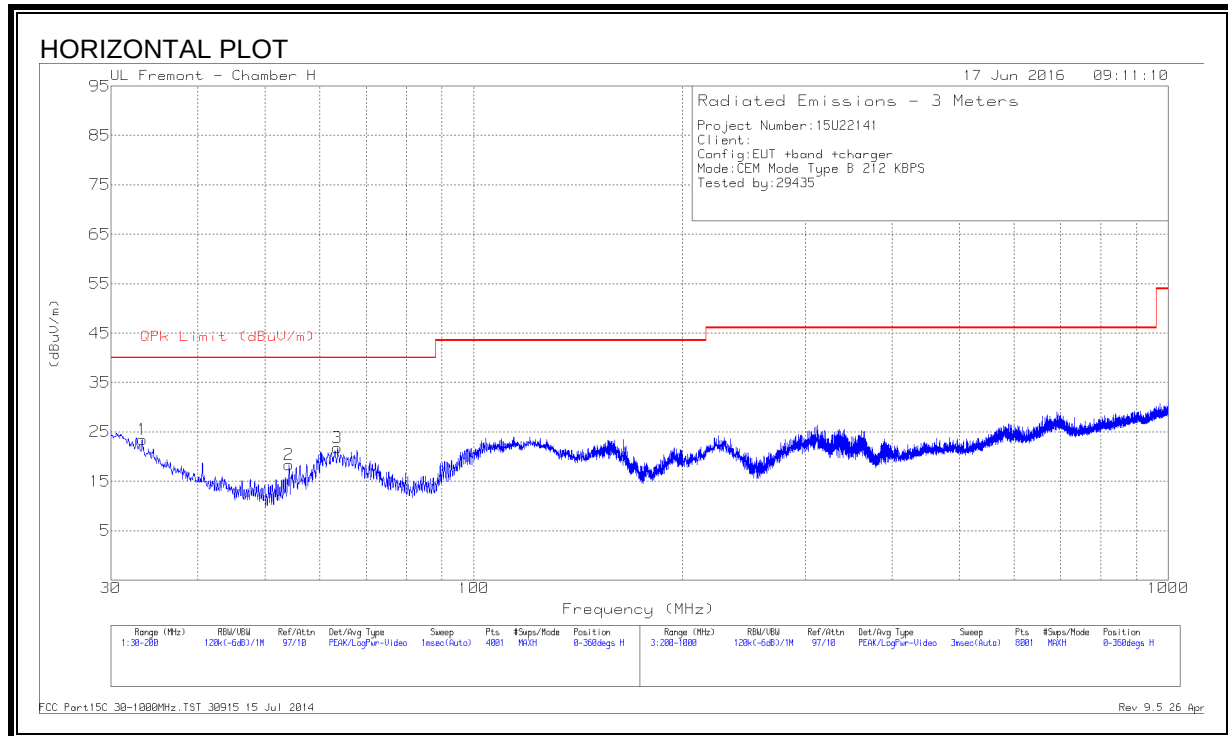


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	40.6675	38.09	Pk	17.3	-31.2	24.19	40	-15.81	0-360	100	V
1	40.71	32.66	Pk	17.2	-31.2	18.66	40	-21.34	0-360	299	H
5	46.7025	36.98	Pk	13.3	-31	19.28	40	-20.72	0-360	100	V
2	61.365	41.83	Pk	11.5	-30.9	22.43	40	-17.57	0-360	399	H
6	72.2875	39.74	Pk	12.1	-30.8	21.04	40	-18.96	0-360	100	V
3	84.6125	36.6	Pk	11.2	-30.6	17.2	40	-22.8	0-360	199	H

Pk - Peak detector

212Kbps

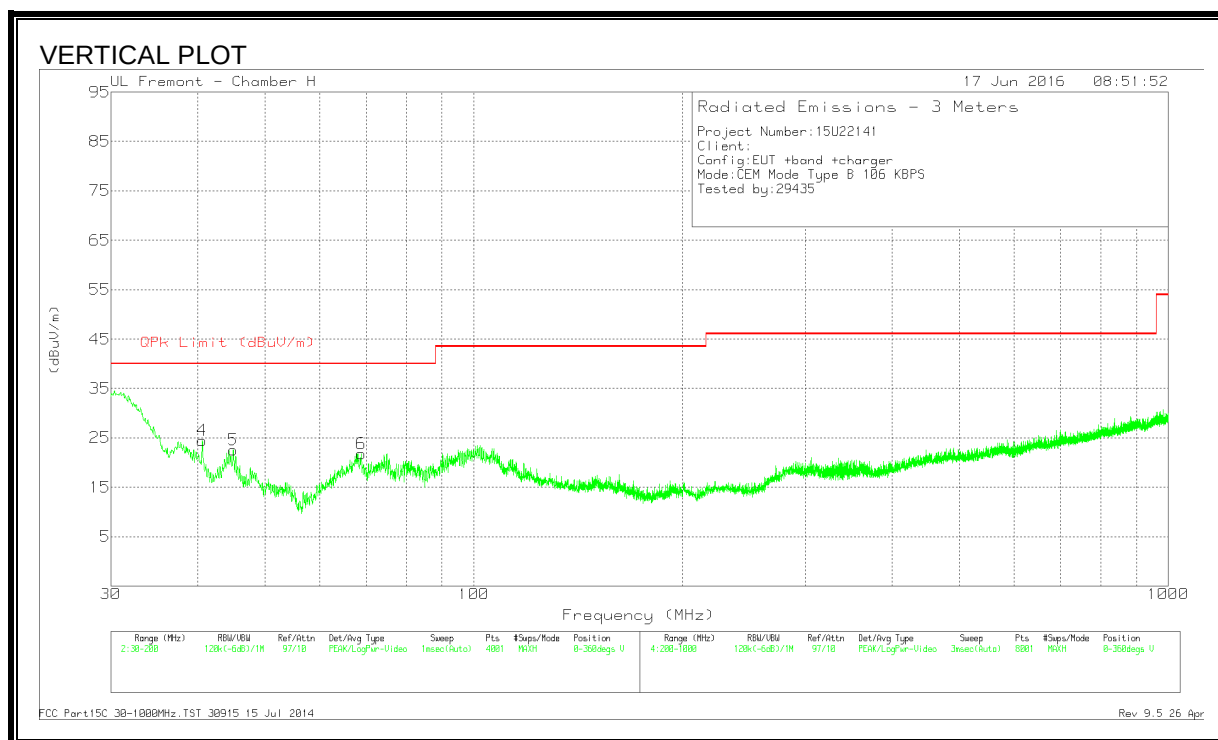
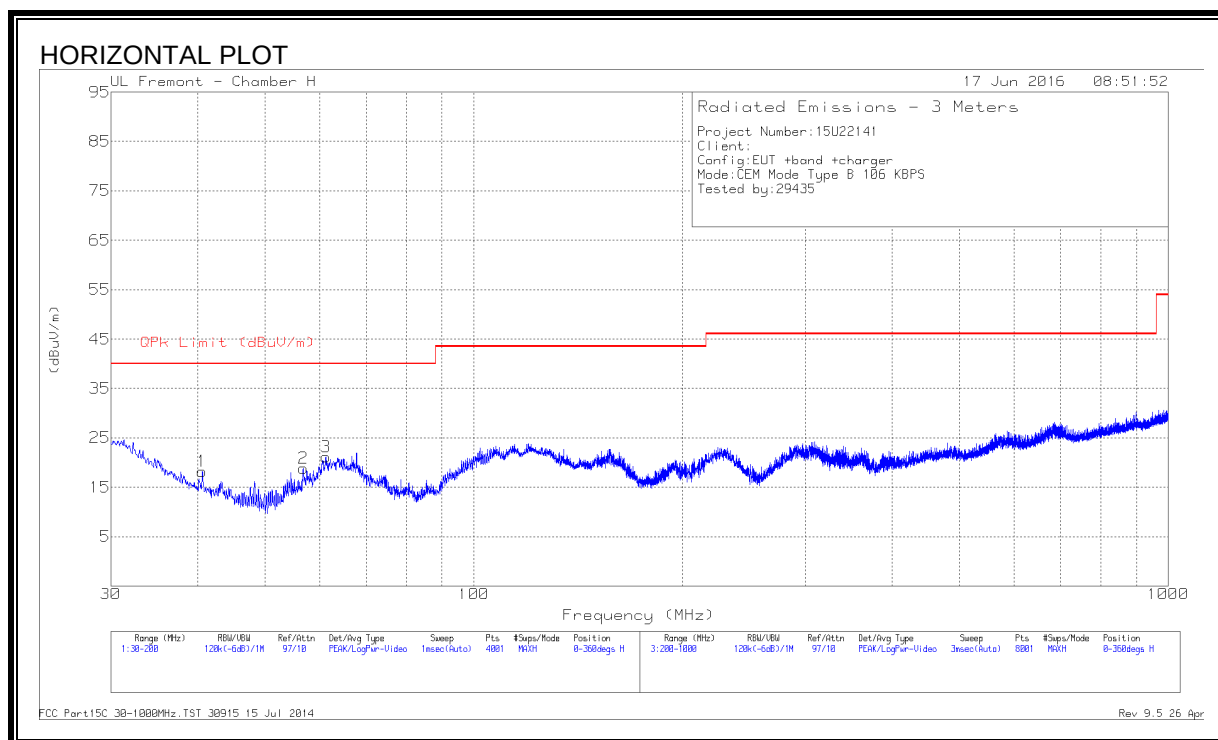


DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.315	31.94	Pk	22.8	-31.3	23.44	40	-16.56	0-360	199	H
4	33.315	39.72	Pk	22.8	-31.3	31.22	40	-8.78	0-360	100	V
5	40.71	38.32	Pk	17.2	-31.2	24.32	40	-15.68	0-360	100	V
2	54.225	38.06	Pk	11.2	-30.9	18.36	40	-21.64	0-360	399	H
3	63.66	40.91	Pk	11.8	-30.9	21.81	40	-18.19	0-360	399	H
6	79.6825	41.62	Pk	11.5	-30.7	22.42	40	-17.58	0-360	100	V

Pk - Peak detector

106Kbps



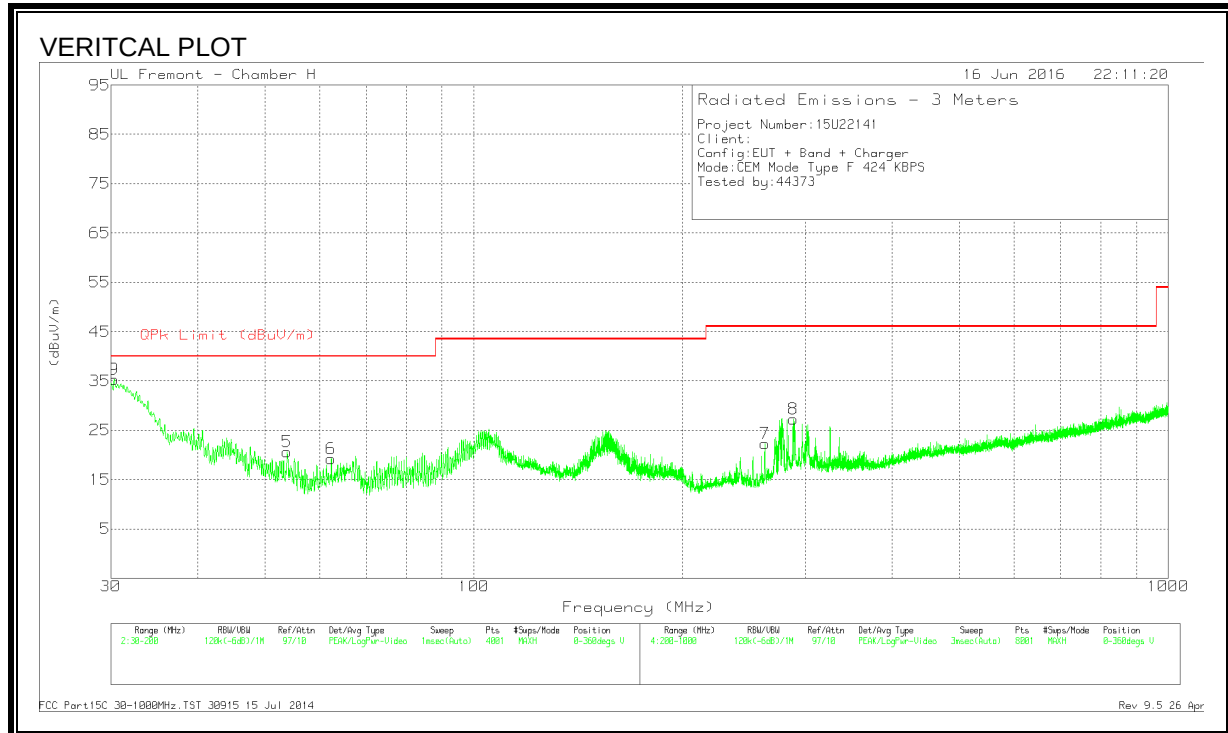
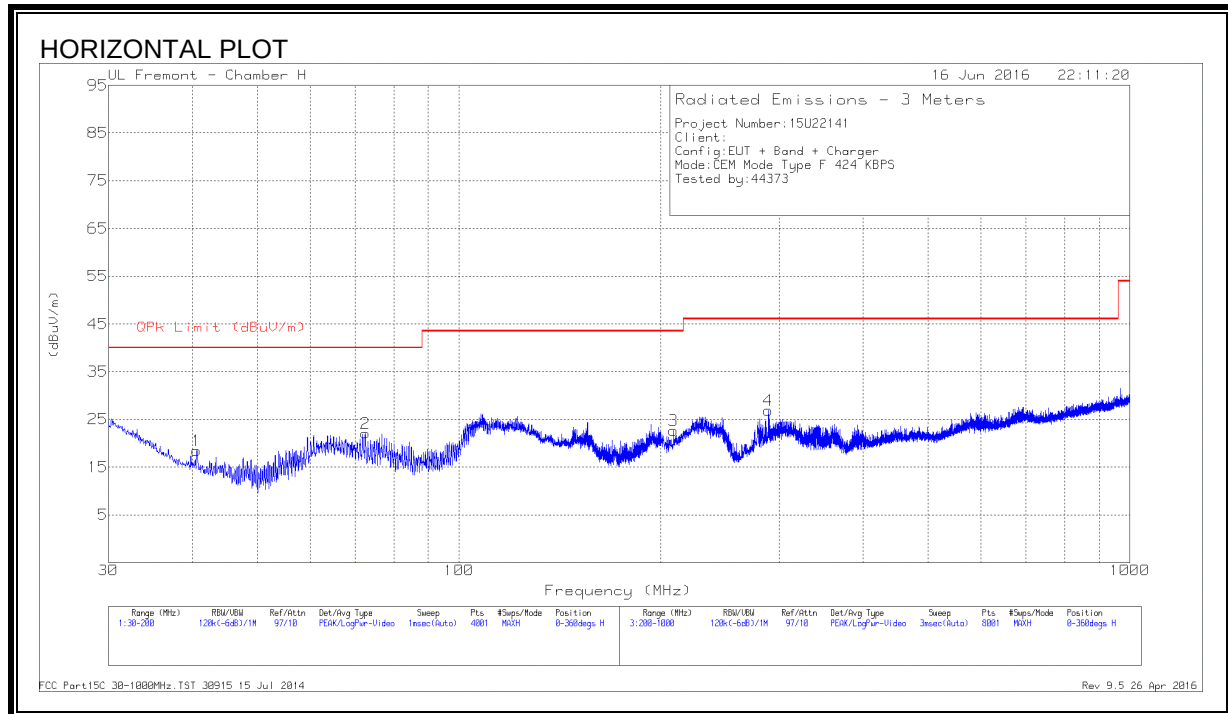
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	40.6675	32.16	Pk	17.3	-31.2	18.26	40	-21.74	0-360	399	H
4	40.6675	38.36	Pk	17.3	-31.2	24.46	40	-15.54	0-360	100	V
5	45.045	39.39	Pk	14.3	-31.1	22.59	40	-17.41	0-360	100	V
2	56.8175	38.51	Pk	11.2	-30.9	18.81	40	-21.19	0-360	399	H
3	61.2375	40.67	Pk	11.5	-31	21.17	40	-18.83	0-360	399	H
6	68.845	40.57	Pk	12	-30.8	21.77	40	-18.23	0-360	100	V

Pk - Peak detector

TYPE F

424Kbps



DATA

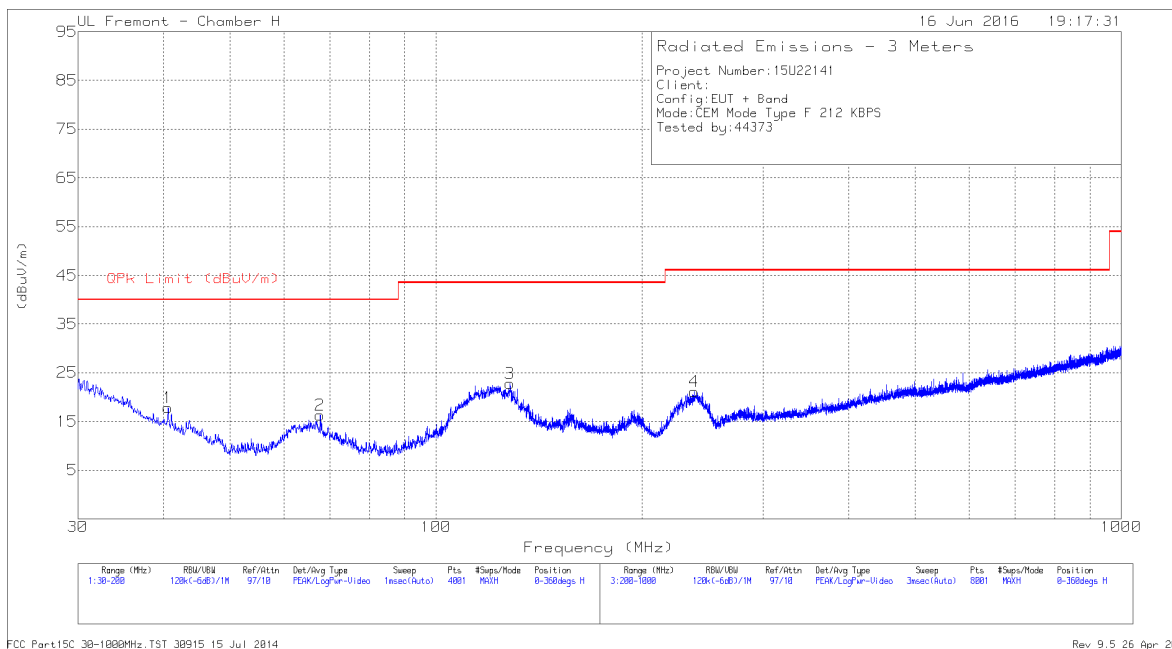
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 288.5	37.33	Pk	17.2	-29.3	25.23	46.02	-20.79	0-360	299	H
7	* 262.4	35.08	Pk	16.5	-29.3	22.28	46.02	-23.74	0-360	201	V
9	30.34	41.7	Pk	24.9	-31.3	35.3	40	-4.7	0-360	100	V
1	40.6675	32.36	Pk	17.3	-31.2	18.46	40	-21.54	0-360	299	H
5	53.885	40.31	Pk	11.2	-30.9	20.61	40	-19.39	0-360	100	V
6	62.3425	38.52	Pk	11.6	-30.9	19.22	40	-20.78	0-360	100	V
2	72.5	40.8	Pk	12.1	-30.8	22.1	40	-17.9	0-360	299	H
3	208.9	38	Pk	14.4	-29.7	22.7	43.52	-20.82	0-360	100	H
8	288.3	39.2	Pk	17.2	-29.1	27.3	46.02	-18.72	0-360	201	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

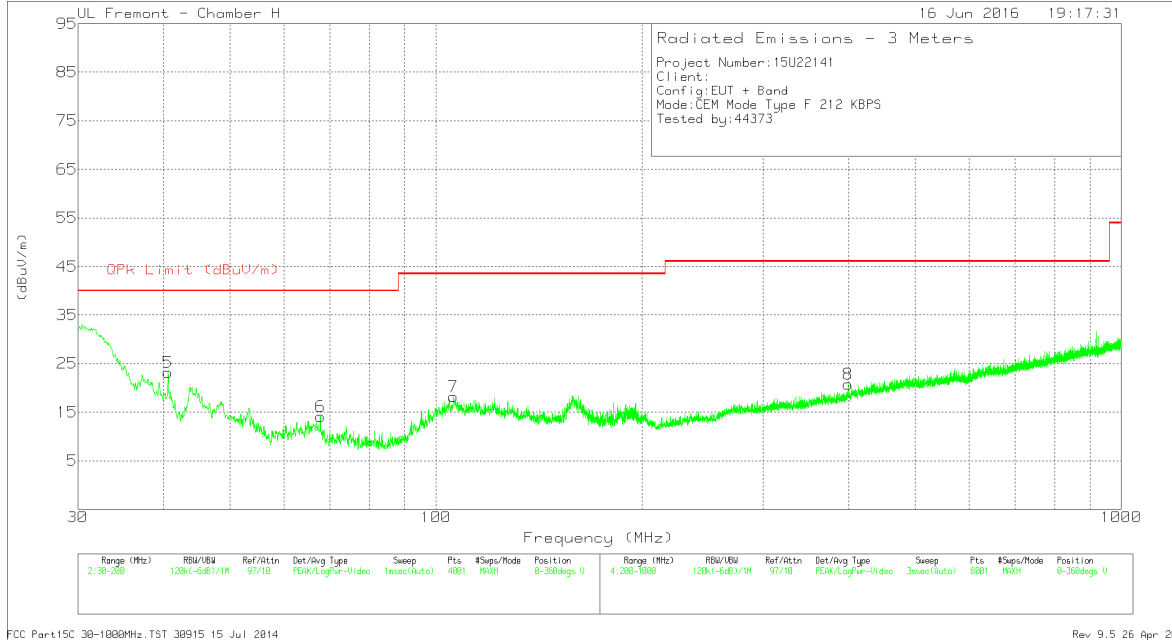
Pk - Peak detector

212Kbps

HORIZONTAL PLOT



VERTICAL PLOT



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 128.26	35.32	Pk	17.7	-30.2	22.82	43.52	-20.7	0-360	199	H
1	40.6675	31.71	Pk	17.3	-31.2	17.81	40	-22.19	0-360	399	H
5	40.6675	37.08	Pk	17.3	-31.2	23.18	40	-16.82	0-360	100	V
2	67.7825	35.15	Pk	12	-30.8	16.35	40	-23.65	0-360	199	H
6	67.825	32.94	Pk	12	-30.8	14.14	40	-25.86	0-360	100	V
7	106.075	33.02	Pk	15.7	-30.5	18.22	43.52	-25.3	0-360	100	V
4	238	35.24	Pk	15.4	-29.5	21.14	46.02	-24.88	0-360	100	H
8	399.7	29.87	Pk	19.5	-28.6	20.77	46.02	-25.25	0-360	399	V

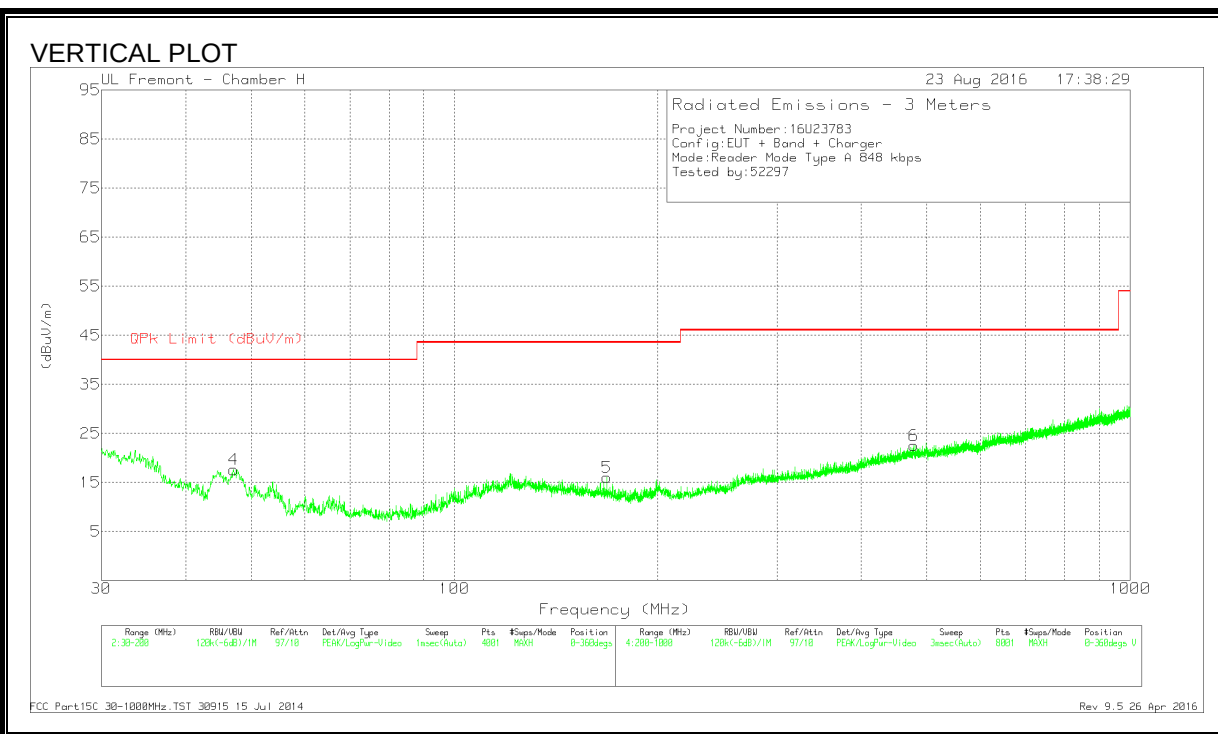
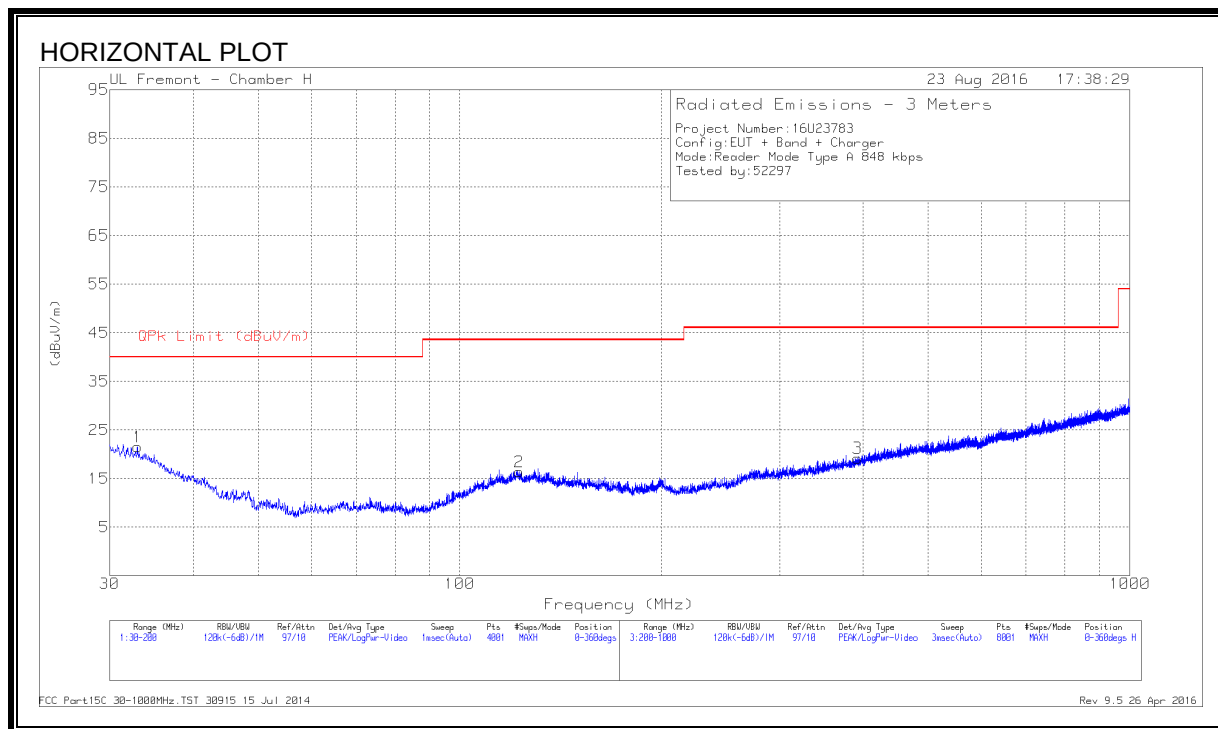
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

8.2.2. READER MODE

TYPE A

848Kbps



DATA

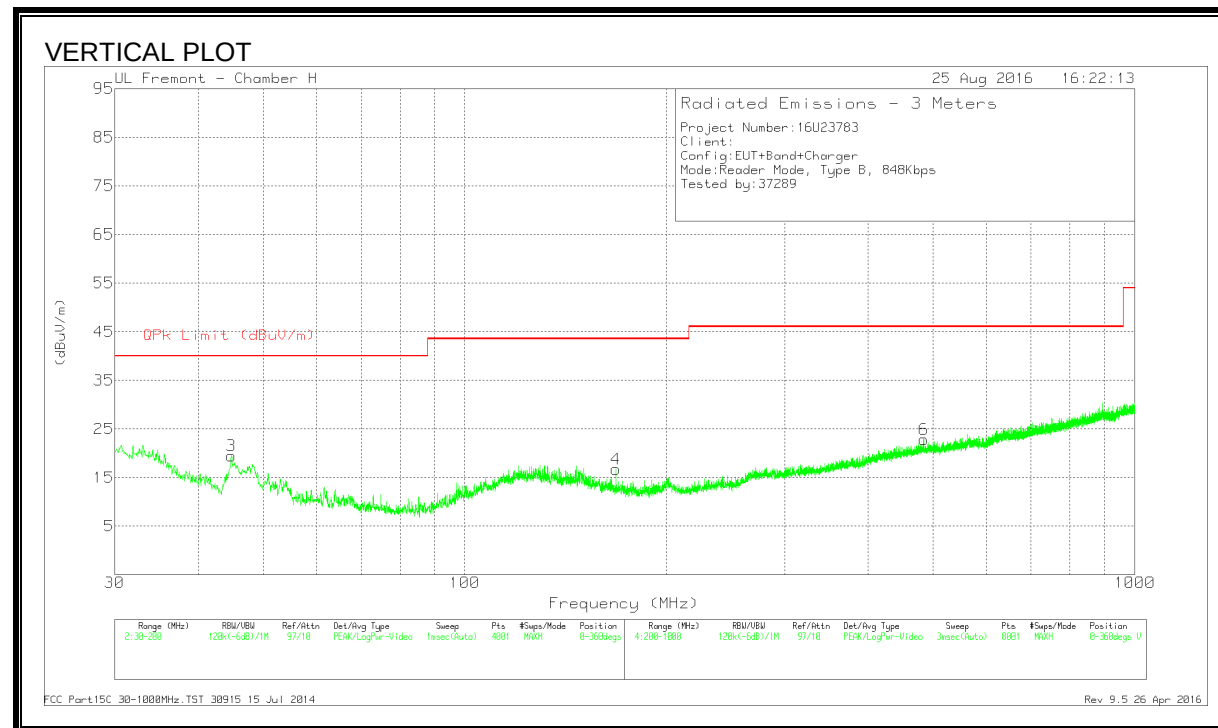
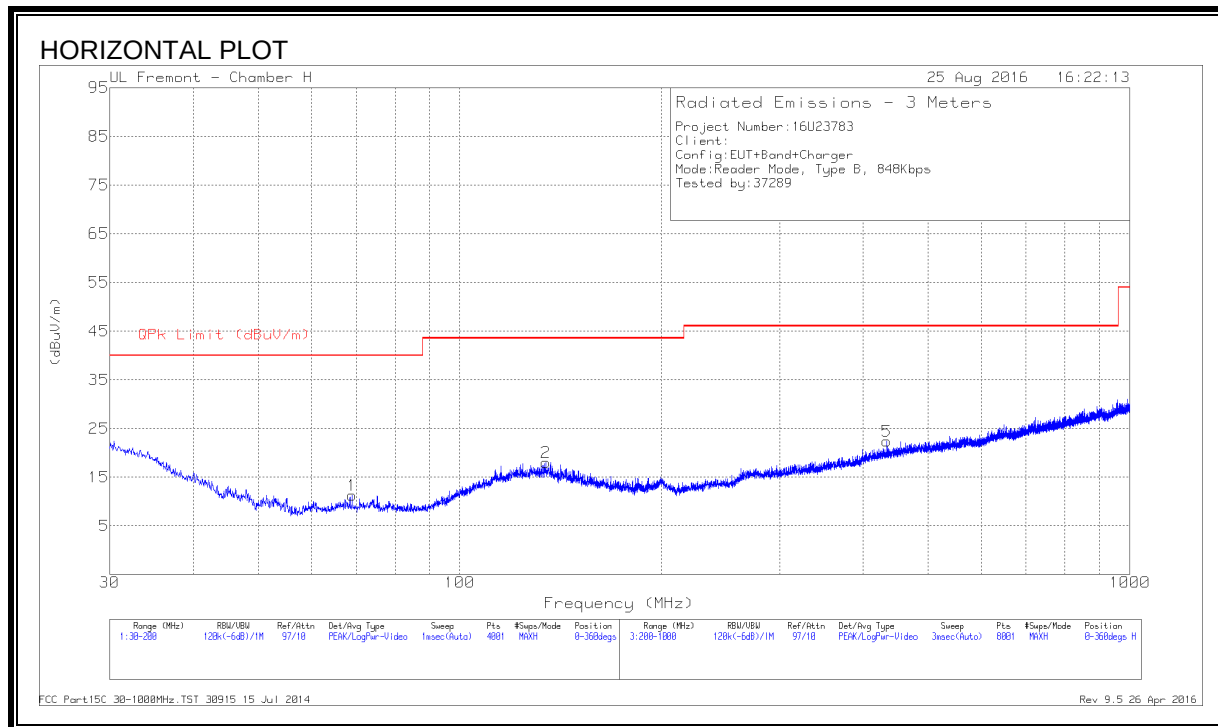
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.0175	29.72	Pk	23.1	-31.3	21.52	40	-18.48	0-360	98	H
2	* 122.6925	28.91	Pk	17.8	-30.3	16.41	43.52	-27.11	0-360	98	H
3	392.1	28.8	Pk	19.1	-28.7	19.2	46.02	-26.82	0-360	299	H
4	47.085	35.51	Pk	13.1	-31	17.61	40	-22.39	0-360	101	V
5	* 167.9975	30.31	Pk	15.6	-29.9	16.01	43.52	-27.51	0-360	101	V
6	478	29.44	Pk	21.5	-28.4	22.54	46.02	-23.48	0-360	201	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

TYPE B

848Kbps



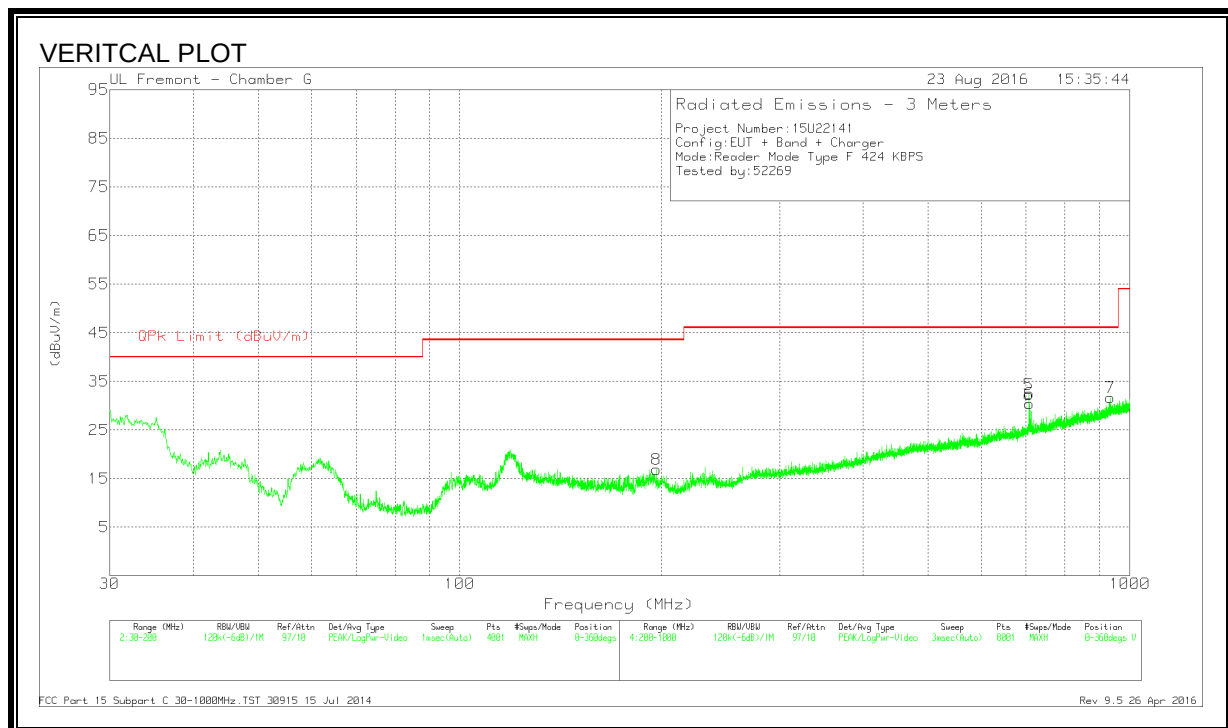
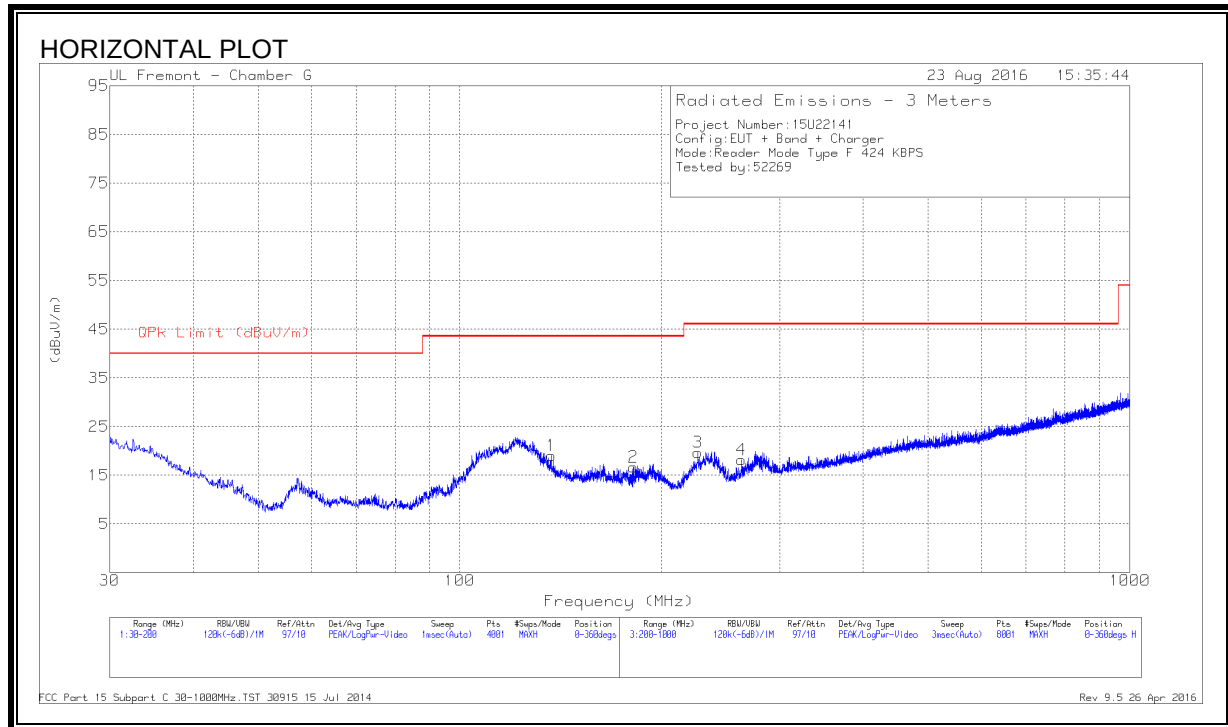
DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T407 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 134.3375	31.04	Pk	17.3	-30.3	18.04	43.52	-25.48	0-360	199	H
4	* 167.9975	31.03	Pk	15.6	-29.9	16.73	43.52	-26.79	0-360	100	V
3	44.8325	36.19	Pk	14.4	-31.1	19.49	40	-20.51	0-360	100	V
1	69.0575	30.16	Pk	12	-30.9	11.26	40	-28.74	0-360	299	H
5	433.9	30.41	Pk	20.5	-28.5	22.41	46.02	-23.61	0-360	199	H
6	484.6	29.65	Pk	21.6	-28.4	22.85	46.02	-23.17	0-360	201	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

TYPE F

424Kbps



RESULTS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T900 (dB/m)	Amp Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 136.8875	31.68	Pk	17.5	-30.1	19.08	43.52	-24.44	0-360	300	H
4	* 263.1	30.91	Pk	16.5	-29.2	18.21	46.02	-27.81	0-360	100	H
2	181.6825	31.41	Pk	15.1	-29.8	16.71	43.52	-26.81	0-360	200	H
8	196.5363	30.57	Pk	15.9	-29.6	16.87	43.52	-26.65	0-360	100	V
3	226.6	34.41	Pk	14.8	-29.5	19.71	46.02	-26.31	0-360	100	H
5	706.6	35.17	Pk	24.3	-27.2	32.27	46.02	-13.75	0-360	300	V
6	708.6	33.25	Pk	24.3	-27.1	30.45	46.02	-15.57	0-360	300	V
7	934.9	30.26	Pk	26.9	-25.5	31.66	46.02	-14.36	0-360	300	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - 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 Clause 6.8

RESULTS

9.1. CE MODE

ID:	52275	Date:	6/20/16
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TYPE A

848Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600363	1.856	13.5600390	1.656	13.5600382	1.712	13.5600375	1.761	± 100
3.80	40	13.5600381	1.724	13.5600386	1.686	13.5600386	1.686	13.5600381	1.721	± 100
3.80	30	13.5600315	2.209	13.5600309	2.253	13.5600308	2.256	13.5600388	1.668	± 100
3.80	20	13.5600614	0.000	13.5600591	0.172	13.5600587	0.199	13.5600584	0.227	± 100
3.80	10	13.5601133	-3.827	13.5601014	-2.950	13.5601014	-2.945	13.5601004	-2.871	± 100
3.80	0	13.5601221	-4.473	13.5601224	-4.499	13.5601233	-4.560	13.5601239	-4.610	± 100
3.80	-10	13.5601552	-6.917	13.5601510	-6.608	13.5601507	-6.582	13.5601493	-6.478	± 100
3.80	-20	13.5601671	-7.791	13.5601676	-7.828	13.5601681	-7.864	13.5601686	-7.904	± 100
3.23	20	13.5600636	-0.157	13.5600530	0.623	13.5600518	0.711	13.5600500	0.840	± 100
4.37	20	13.5600597	0.126	13.5600599	0.113	13.5600598	0.118	13.5600594	0.148	± 100

424Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600308	1.908	13.5600316	1.848	13.5600326	1.778	13.5600307	1.919	± 100
3.80	40	13.5600265	2.225	13.5600266	2.222	13.5600266	2.221	13.5600266	2.217	± 100
3.80	30	13.5600371	1.445	13.5600367	1.475	13.5600363	1.504	13.5600360	1.527	± 100
3.80	20	13.5600567	0.000	13.5600567	0.000	13.5600567	0.000	13.5600567	0.000	± 100
3.80	10	13.5600792	-1.659	13.5600791	-1.652	13.5600793	-1.667	13.5600797	-1.696	± 100
3.80	0	13.5601058	-3.621	13.5601055	-3.599	13.5601053	-3.584	13.5601052	-3.577	± 100
3.80	-10	13.5601212	-4.758	13.5601213	-4.762	13.5601214	-4.771	13.5601215	-4.780	± 100
3.80	-20	13.5601215	-4.779	13.5601216	-4.786	13.5601215	-4.779	13.5601213	-4.764	± 100
3.23	20	13.5600511	0.416	13.5600512	0.404	13.5600612	-0.335	13.5600613	-0.337	± 100
4.37	20	13.5600611	-0.321	13.5600612	-0.334	13.5600537	0.222	13.5600512	0.404	± 100

212Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600286	2.079	13.5600268	2.215	13.5600266	2.227	13.5600284	2.097	± 100
3.80	40	13.5600265	2.233	13.5600266	2.229	13.5600266	2.228	13.5600267	2.216	± 100
3.80	30	13.5600378	1.401	13.5600369	1.468	13.5600362	1.519	13.5600358	1.549	± 100
3.80	20	13.5600568	0.000	13.5600567	0.007	13.5600566	0.015	13.5600567	0.007	± 100
3.80	10	13.5600805	-1.748	13.5600803	-1.733	13.5600804	-1.740	13.5600805	-1.748	± 100
3.80	0	13.5601051	-3.562	13.5601050	-3.555	13.5601051	-3.562	13.5601051	-3.562	± 100
3.80	-10	13.5601218	-4.792	13.5601217	-4.790	13.5601217	-4.789	13.5601218	-4.792	± 100
3.80	-20	13.5601209	-4.727	13.5601210	-4.735	13.5601210	-4.735	13.5601209	-4.727	± 100
3.23	20	13.5600631	-0.466	13.5600512	0.411	13.5600612	-0.326	13.5600612	-0.326	± 100
4.37	20	13.5600614	-0.337	13.5600511	0.421	13.5600610	-0.312	13.5600514	0.399	± 100

106Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600286	2.234	13.5600268	2.370	13.5600266	2.382	13.5600284	2.252	± 100
3.80	40	13.5600266	2.385	13.5600266	2.383	13.5600266	2.381	13.5600266	2.381	± 100
3.80	30	13.5600360	1.689	13.5600357	1.711	13.5600354	1.733	13.5600352	1.748	± 100
3.80	20	13.5600589	0.000	13.5600578	0.081	13.5600570	0.140	13.5600564	0.184	± 100
3.80	10	13.5600817	-1.681	13.5600811	-1.637	13.5600807	-1.608	13.5600804	-1.586	± 100
3.80	0	13.5601059	-3.468	13.5601054	-3.429	13.5601050	-3.400	13.5601048	-3.385	± 100
3.80	-10	13.5601223	-4.676	13.5601221	-4.659	13.5601219	-4.645	13.5601218	-4.640	± 100
3.80	-20	13.5601176	-4.329	13.5601213	-4.602	13.5601231	-4.735	13.5601220	-4.653	± 100
3.23	20	13.5600522	0.492	13.5600512	0.565	13.5600512	0.565	13.5600512	0.565	± 100
4.37	20	13.5600416	1.278	13.5600532	0.423	13.5600510	0.581	13.5600615	-0.195	± 100

TYPE B

848Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600348	1.754	13.5600337	1.839	13.5600346	1.770	13.5600354	1.713	± 100
3.80	40	13.5600357	1.689	13.5600303	2.086	13.5600307	2.054	13.5600309	2.042	± 100
3.80	30	13.5600313	2.011	13.5600314	2.006	13.5600311	2.024	13.5600581	0.037	± 100
3.80	20	13.5600586	0.000	13.5600586	-0.004	13.5600584	0.012	13.5600582	0.026	± 100
3.80	10	13.5600931	-2.543	13.5600955	-2.720	13.5600979	-2.897	13.5601004	-3.080	± 100
3.80	0	13.5601300	-5.264	13.5601244	-4.850	13.5601245	-4.862	13.5601239	-4.819	± 100
3.80	-10	13.5601477	-6.569	13.5601487	-6.644	13.5601496	-6.712	13.5601493	-6.687	± 100
3.80	-20	13.5601711	-8.294	13.5601695	-8.179	13.5601695	-8.182	13.5601689	-8.135	± 100
3.23	20	13.5600829	-1.790	13.5600795	-1.542	13.5600790	-1.509	13.5600794	-1.536	± 100
4.37	20	13.5600787	-1.483	13.5600786	-1.478	13.5600783	-1.455	13.5600788	-1.491	± 100

424Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600334	1.760	13.5600340	1.720	13.5600345	1.681	13.5600351	1.637	± 100
3.80	40	13.5600265	2.271	13.5600265	2.269	13.5600266	2.267	13.5600266	2.268	± 100
3.80	30	13.5600357	1.593	13.5600354	1.615	13.5600353	1.622	13.5600352	1.630	± 100
3.80	20	13.5600573	0.000	13.5600569	0.029	13.5600566	0.052	13.5600564	0.066	± 100
3.80	10	13.5600815	-1.785	13.5600811	-1.755	13.5600810	-1.748	13.5600809	-1.740	± 100
3.80	0	13.5601059	-3.584	13.5601054	-3.547	13.5601052	-3.532	13.5601051	-3.525	± 100
3.80	-10	13.5601222	-4.787	13.5601221	-4.777	13.5601220	-4.771	13.5601219	-4.767	± 100
3.80	-20	13.5601184	-4.503	13.5601187	-4.526	13.5601189	-4.540	13.5601190	-4.547	± 100
3.23	20	13.5600525	0.351	13.5600522	0.376	13.5600436	1.011	13.5600124	3.314	± 100
4.37	20	13.5600501	0.527	13.5600412	1.187	13.5600537	0.269	13.5600514	0.438	± 100

212Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600347	1.621	13.5600351	1.594	13.5600354	1.570	13.5600358	1.540	± 100
3.80	40	13.5600265	2.226	13.5600266	2.223	13.5600266	2.223	13.5600265	2.224	± 100
3.80	30	13.5600357	1.549	13.5600354	1.571	13.5600353	1.578	13.5600353	1.578	± 100
3.80	20	13.5600567	0.000	13.5600563	0.029	13.5600562	0.037	13.5600563	0.029	± 100
3.80	10	13.5600782	-1.586	13.5600786	-1.615	13.5600792	-1.659	13.5600799	-1.711	± 100
3.80	0	13.5601056	-3.606	13.5601052	-3.577	13.5601050	-3.562	13.5601049	-3.555	± 100
3.80	-10	13.5601222	-4.828	13.5601221	-4.821	13.5601220	-4.816	13.5601220	-4.812	± 100
3.80	-20	13.5601185	-4.555	13.5601188	-4.578	13.5601189	-4.590	13.5601190	-4.595	± 100
3.23	20	13.5600559	0.061	13.5600533	0.254	13.5600587	-0.151	13.5600522	0.331	± 100
4.37	20	13.5600470	0.718	13.5600574	-0.053	13.5600536	0.226	13.5600487	0.590	± 100

106Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600355	1.493	13.5600358	1.468	13.5600360	1.452	13.5600364	1.426	± 100
3.80	40	13.5600269	2.123	13.5600269	2.126	13.5600268	2.132	13.5600267	2.138	± 100
3.80	30	13.5600398	1.173	13.5600382	1.291	13.5600370	1.379	13.5600363	1.431	± 100
3.80	20	13.5600557	0.000	13.5600555	0.015	13.5600556	0.007	13.5600558	-0.007	± 100
3.80	10	13.5600810	-1.866	13.5600807	-1.844	13.5600807	-1.844	13.5600808	-1.851	± 100
3.80	0	13.5601038	-3.547	13.5601039	-3.555	13.5601041	-3.569	13.5601044	-3.591	± 100
3.80	-10	13.5601223	-4.908	13.5601221	-4.897	13.5601220	-4.891	13.5601220	-4.888	± 100
3.80	-20	13.5601186	-4.639	13.5601189	-4.663	13.5601191	-4.674	13.5601191	-4.676	± 100
3.23	20	13.5600588	-0.231	13.5600464	0.690	13.5600623	-0.489	13.5600587	-0.224	± 100
4.37	20	13.5600687	-0.958	13.5600636	-0.581	13.5600363	1.434	13.5600636	-0.581	± 100

TYPE F

424Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600358	1.276	13.5600362	1.248	13.5600365	1.227	13.5600367	1.211	± 100
3.80	40	13.5600321	1.547	13.5600305	1.665	13.5600290	1.777	13.5600277	1.872	± 100
3.80	30	13.5600370	1.187	13.5600365	1.224	13.5600362	1.246	13.5600360	1.261	± 100
3.80	20	13.5600531	0.000	13.5600533	-0.015	13.5600539	-0.059	13.5600547	-0.118	± 100
3.80	10	13.5600815	-2.094	13.5600812	-2.072	13.5600811	-2.065	13.5600810	-2.058	± 100
3.80	0	13.5600990	-3.385	13.5600999	-3.451	13.5601011	-3.540	13.5601024	-3.636	± 100
3.80	-10	13.5601224	-5.113	13.5601223	-5.100	13.5601221	-5.090	13.5601221	-5.087	± 100
3.80	-20	13.5601204	-4.959	13.5601202	-4.952	13.5601200	-4.937	13.5601198	-4.916	± 100
3.23	20	13.5600558	-0.196	13.5600511	0.145	13.5600587	-0.416	13.5600504	0.202	± 100
4.37	20	13.5600459	0.533	13.5600524	0.055	13.5600503	0.210	13.5600534	-0.019	± 100

212Kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600363	0.426	13.5600366	0.402	13.5600369	0.386	13.5600371	0.371	± 100
3.80	40	13.5600321	0.736	13.5600305	0.854	13.5600290	0.966	13.5600277	1.061	± 100
3.80	30	13.5600364	0.420	13.5600362	0.435	13.5600361	0.442	13.5600359	0.457	± 100
3.80	20	13.5600421	0.000	13.5600447	-0.192	13.5600477	-0.413	13.5600510	-0.656	± 100
3.80	10	13.5600815	-2.906	13.5600813	-2.891	13.5600812	-2.883	13.5600811	-2.876	± 100
3.80	0	13.5600769	-2.566	13.5600839	-3.083	13.5600907	-3.584	13.5600971	-4.056	± 100
3.80	-10	13.5601224	-5.919	13.5601223	-5.914	13.5601222	-5.907	13.5601221	-5.902	± 100
3.80	-20	13.5601233	-5.988	13.5601228	-5.954	13.5601220	-5.893	13.5601209	-5.811	± 100
3.23	20	13.5600653	-1.711	13.5600657	-1.742	13.5600753	-2.449	13.5600437	-0.116	± 100
4.37	20	13.5600574	-1.128	13.5600426	-0.034	13.5600657	-1.741	13.5600547	-0.929	± 100

9.2. READER MODE

ID:	50820	Date:	8/23/16
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Type A

848kbps

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600233	2.528	13.5600240	2.478	13.5600253	2.382	13.5600274	2.230	± 100
3.80	40	13.5600244	2.447	13.5600237	2.499	13.5600232	2.535	13.5600230	2.548	± 100
3.80	30	13.5600251	2.393	13.5600265	2.292	13.5600281	2.173	13.5601179	-4.444	± 100
3.80	20	13.5600576	0.000	13.5600566	0.071	13.5600556	0.144	13.5600549	0.199	± 100
3.80	10	13.5600668	-0.675	13.5600706	-0.961	13.5600743	-1.235	13.5600774	-1.464	± 100
3.80	0	13.5600908	-2.448	13.5600950	-2.756	13.5600988	-3.042	13.5601020	-3.273	± 100
3.80	-10	13.5601132	-4.099	13.5601151	-4.241	13.5601167	-4.358	13.5601179	-4.444	± 100
3.80	-20	13.5601132	-4.099	13.5601151	-4.241	13.5601167	-4.358	13.5601179	-4.444	± 100
3.23	20	13.5600641	-0.477	13.5600615	-0.292	13.5600606	-0.223	13.5600582	-0.046	± 100
4.37	20	13.5600313	1.939	13.5600316	1.916	13.5600320	1.887	13.5600324	1.860	± 100

Type B

848kbps

ID:	30606	Date:	8/24/16
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Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600233	3.163	13.5600241	3.106	13.5600254	3.008	13.5600273	2.865	± 100
3.80	40	13.5600241	3.102	13.5600235	3.151	13.5600230	3.182	13.5600229	3.193	± 100
3.80	30	13.5600253	3.013	13.5600267	2.908	13.5600284	2.786	13.5600302	2.654	± 100
3.80	20	13.5600662	0.000	13.5600631	0.230	13.5600601	0.446	13.5600578	0.622	± 100
3.80	10	13.5600682	-0.151	13.5600720	-0.431	13.5600756	-0.695	13.5600786	-0.919	± 100
3.80	0	13.5600927	-1.955	13.5600963	-2.222	13.5600997	-2.469	13.5601023	-2.661	± 100
3.80	-10	13.5601136	-3.499	13.5601154	-3.627	13.5601168	-3.733	13.5601179	-3.812	± 100
3.80	-20	13.5601201	-3.976	13.5601195	-3.935	13.5601188	-3.881	13.5601179	-3.812	± 100
3.23	20	13.5600418	1.796	13.5600449	1.569	13.5600482	1.328	13.5600512	1.104	± 100
4.37	20	13.5600651	0.083	13.5600693	-0.228	13.5600734	-0.535	13.5600773	-0.819	± 100

Type F

424kbps

ID:	50820	Date:	8/24/16
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Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.80	50	13.5600230	1.616	13.5600231	1.613	13.5600238	1.557	13.5600258	1.413	± 100
3.80	40	13.5600247	1.496	13.5600242	1.532	13.5600237	1.569	13.5600233	1.597	± 100
3.80	30	13.5600232	1.606	13.5600237	1.569	13.5600246	1.504	13.5600260	1.400	± 100
3.80	20	13.5600450	0.000	13.5600454	-0.035	13.5600459	-0.073	13.5600465	-0.115	± 100
3.80	10	13.5600560	-0.811	13.5600592	-1.049	13.5600629	-1.326	13.5600664	-1.585	± 100
3.80	0	13.5600805	-2.620	13.5600839	-2.871	13.5600876	-3.141	13.5600915	-3.435	± 100
3.80	-10	13.5601055	-4.463	13.5601078	-4.631	13.5601102	-4.809	13.5601125	-4.982	± 100
3.80	-20	13.5601197	-5.513	13.5601202	-5.546	13.5601204	-5.566	13.5601204	-5.568	± 100
3.23	20	13.5600431	0.137	13.5600435	0.107	13.5600441	0.063	13.5600449	0.004	± 100
4.37	20	13.5600538	-0.652	13.5600542	-0.682	13.5600549	-0.734	13.5600557	-0.793	± 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

RESULTS

EUT is powered by battery. AC line conducted emission is not applicable.