



**FCC CFR47 PART 15 SUBPART C
ISED CANADA RSS-210 ISSUE 10**

CERTIFICATION TEST REPORT

FOR

SMOKE DETECTOR

MODEL NUMBER: 5800CMBOV / 5800CMBOVC

**FCC ID: CFS8DL5800CMBOV
IC: 573F-5800CMBOVC**

REPORT NUMBER: R13672583-E1

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REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
1	2021-08-06	Initial Issue	Brian T. Kiewra
2	2021-08-19	Revised FCC ID.	Brian T. Kiewra

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Ademco, Inc.
2 Corporate Center
Melville, NY 11747, USA

EUT DESCRIPTION: Smoke and CO Detector

MODEL: 5800CMBOV / 5800CMBOVC

SERIAL NUMBER: 555040

SAMPLE RECEIPT DATE: 2021-06-21

DATE TESTED: 2021-07-12 to 2021-07-14

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	Complies
ISED CANADA RSS-210 Issue 10, Annex A	Complies
ISED CANADA RSS-GEN Issue 5 + A2	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.

Approved & Released
For UL LLC By:

Prepared By:



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Staff Engineer
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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 5+A2, and RSS-210 Issue 10.

3. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification # 0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
<input type="checkbox"/>	Building: 12 Laboratory Dr RTP, NC 27709, U.S.A	US0067	2180C	703469
<input checked="" type="checkbox"/>	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. METROLOGICAL TRACEABILITY

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

4.2. DECISION RULES

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	U _{Lab}
Worst Case Radiated Disturbance, 9 kHz to 30 MHz	2.84 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Occupied Bandwidth	2.75%

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

4.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

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

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Final Voltage (dBuV)} &= \text{Measured Voltage (dBuV)} + \text{Cable Loss (dB)} + \text{Limiter Factor} \\ &\text{(dB)} + \text{LISN Insertion Loss.} \\ 36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} &= 46.6 \text{ dBuV} \end{aligned}$$

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a 344.94MHz periodic operated transmitter intended for operation in a wireless smoke detector unit. The device is powered from four (4) CR123A-type batteries.

Models 5800CMBOV and 5800CMBOVC are exactly the same. The 5800CMBOV is for sale in the US and the 5800CMBOVC is for sale in Canada.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna(s) gain and type, as provided by the manufacturer' are as follows:

The radio utilizes an PCB trace antenna, with a maximum gain of -7 dBi.

5.3. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was v1.1.8.

5.4. WORST-CASE CONFIGURATION AND MODE

The EUT operates only at a single channel. As such, all testing performed at this channel while operating at its highest intended power setting.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

5.5. MODIFICATIONS

No modifications were made during testing.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
None				

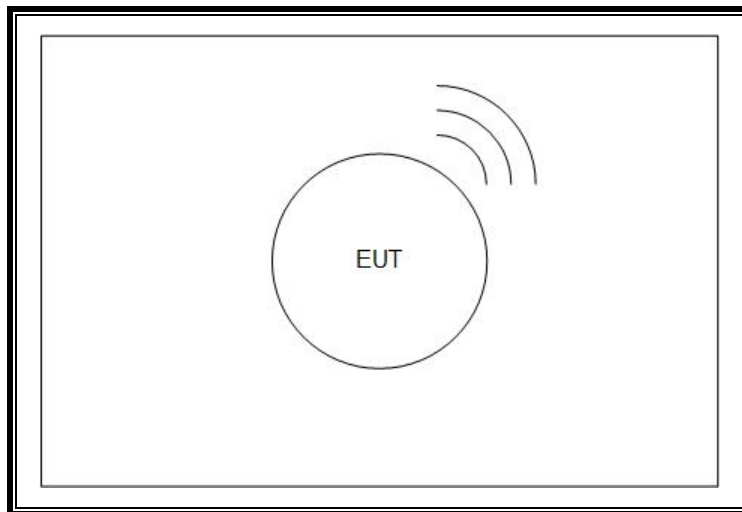
I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
None						

TEST SETUP

The EUT is configured and tested as a standalone device.

SETUP DIAGRAM FOR TESTS



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 – Chamber 4)

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
0.009-30MHz					
AT0059	Active Loop Antenna	EMCO	6502	2020-08-06	2021-08-06
1-18 GHz					
206211	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2021-03-11	2022-03-11
Gain-Loss Chains					
C4-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2021-05-07	2022-05-07
C4-SAC03	Gain-loss string: 1-18GHz	Various	Various	2021-05-07	2022-05-07
Receiver & Software					
206496	Spectrum Analyzer	Rohde & Schwarz	ESW44	2021-03-09	2022-03-09
SOFTEMI	EMI Software	UL	Version 9.5 (28 Jun 2021)		
Additional Equipment used					
s/n 200037635	Environmental Meter	Fisher Scientific	06-662-4	2020-01-21	2022-01-21
207639	10dB, DC-18GHz, 5W	Mini-Circuits	BW-N10W5	2021-05-06	2022-05-06
HPF012	1GHz high-pass filter, 2W, $F_{high} = 18GHz$	Micro-Tronics	HPM18129	2021-02-15	2022-02-15

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

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
30-1000 MHz					
AT0075	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2020-10-27	2021-10-27
Gain-Loss Chains					
S-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2021-07-09	2022-07-31
Receiver & Software					
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2021-03-10	2022-03-10
SOFTEMI	EMI Software	UL	Version 9.5 (24 Jun 2021)		
Additional Equipment used					
s/n 200037635	Environmental Meter	Fisher Scientific	06-662-4	2020-01-22	2022-01-22
ATA176	10dB, DC-18GHz, 5W	Mini-Circuits	BW-N10W5	2020-08-29	2021-08-29

7. ANTENNA PORT TEST RESULTS

7.1. 20 dB AND 99% BW

LIMITS

FCC §15.231 (c)

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

RSS-210 A1.3

For the purpose of Section A1.1, the 99% Bandwidth shall be no wider than 0.25% of the center frequency for devices operating between 70-900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.

TEST PROCEDURE

ANSI C63.10

The transmitter output is connected to the spectrum analyzer.

20dB Bandwidth: The RBW is set to 100 KHz. The VBW is set to 300 KHz. The sweep time is coupled. Bandwidth is determined at the points 20 dB down from the modulated carrier.

99% Bandwidth: The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

Note: Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since the measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

RESULTS

No non-compliance noted:

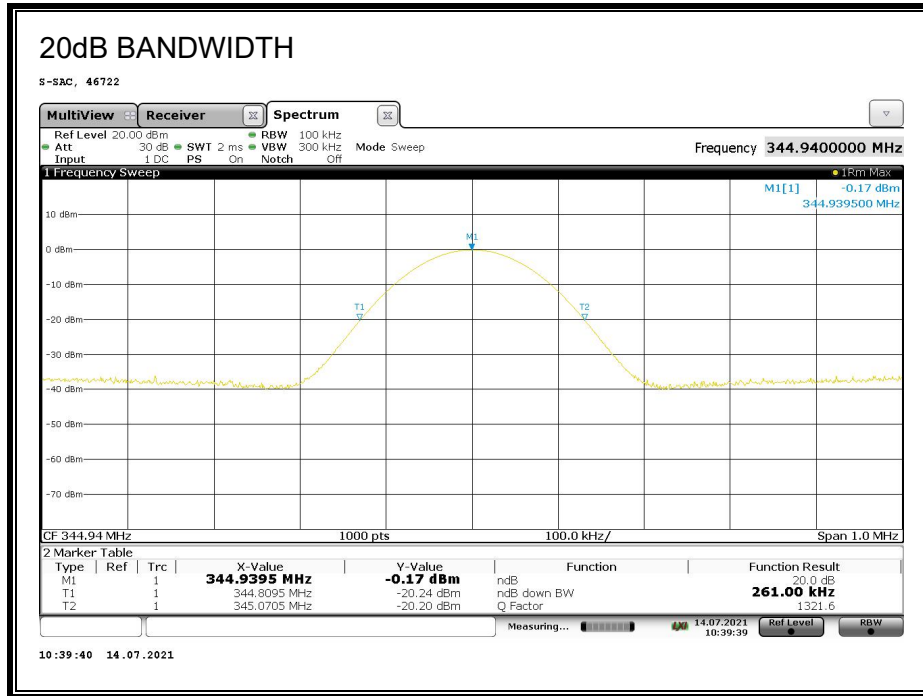
20dB Bandwidth

Frequency (MHz)	20dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
344.94	261.00	862.35	-601.35

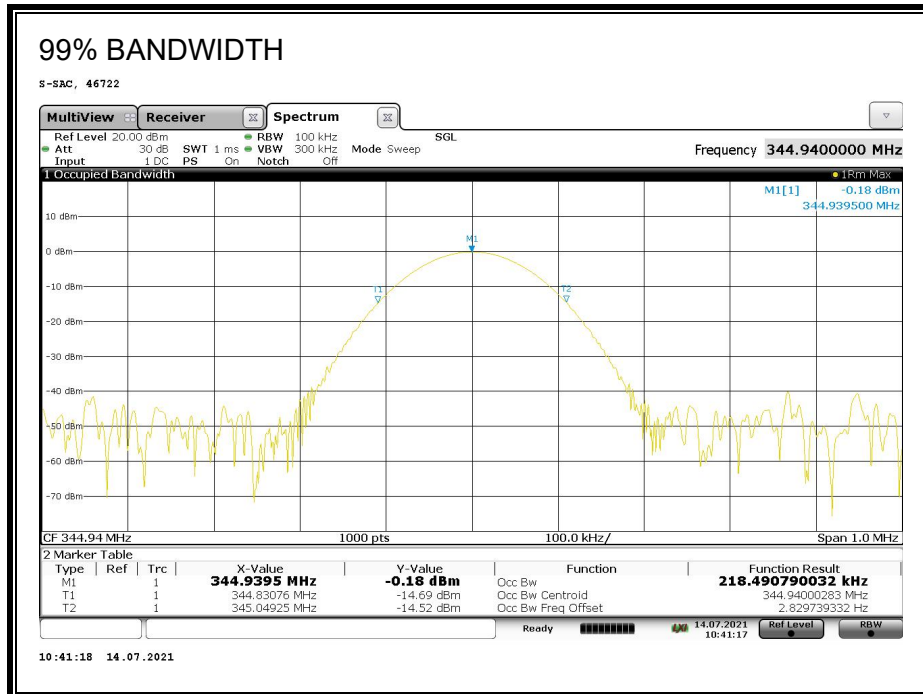
99% Bandwidth

Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
344.94	218.49	862.35	-643.86

20dB BANDWIDTH



99% BANDWIDTH



7.2. DUTY CYCLE

LIMITS

FCC §15.35 (c)

The measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 100 kHz and the VBW is set to 100 kHz. The sweep time is coupled and the span is set to 0 Hz. The number of pulses is measured and calculated in a 110ms scan.

CALCULATION

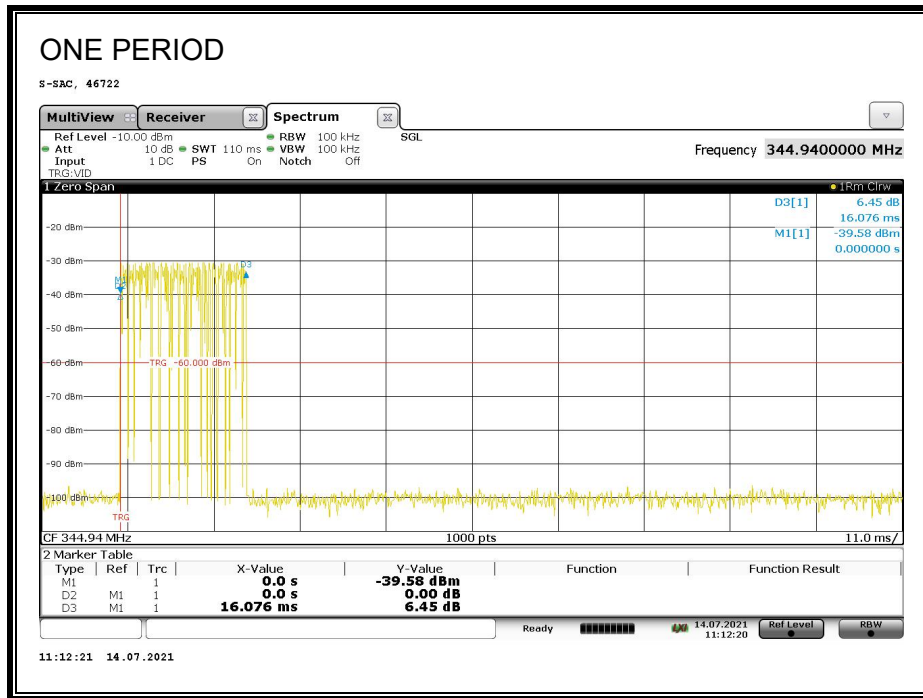
Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle), Where Duty Cycle is (# of long pulses * long pulse width) + (# of short pulses * short pulse width) / 100 or T

RESULTS

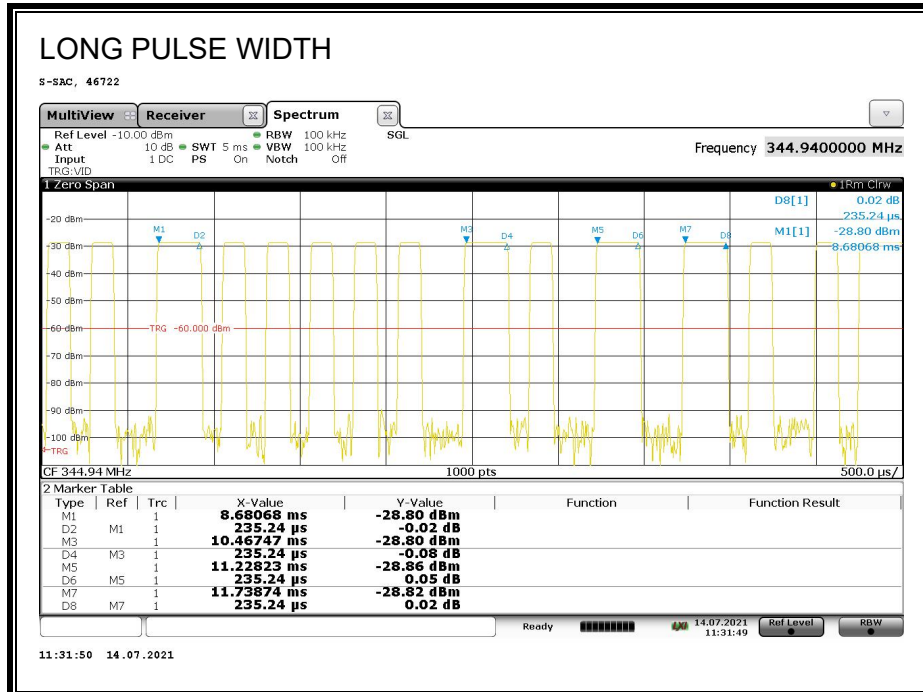
No non-compliance noted:

One Period (ms)	Long Pulse Width (ms)	# of Long Pulses	Short Width (ms)	# of Short Pulses	Duty Cycle	20*Log Duty Cycle (dB)
100	0.23524	10	0.11011	44	0.0719724	-22.85

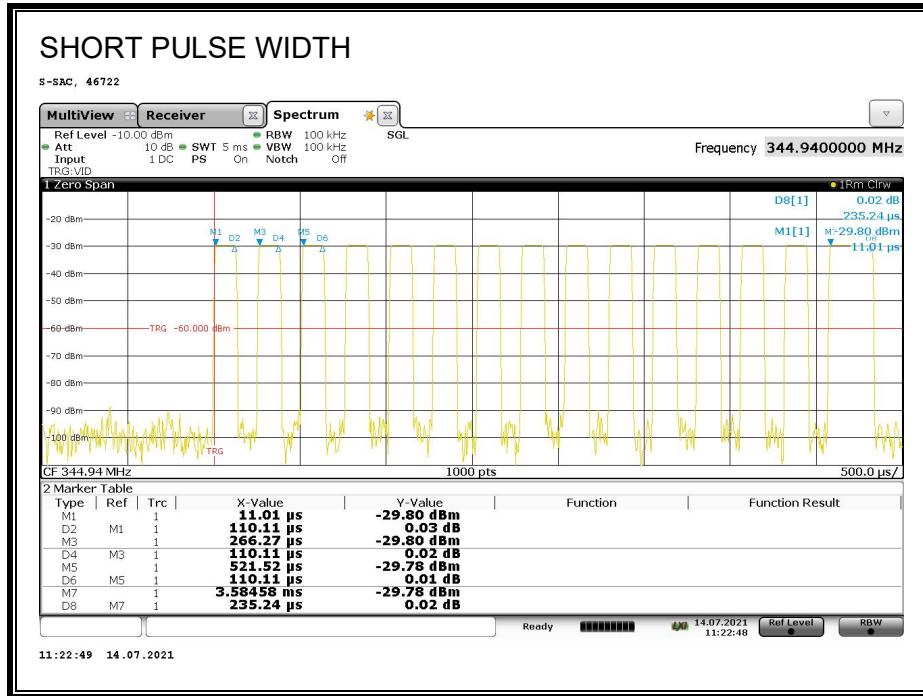
ONE PERIOD



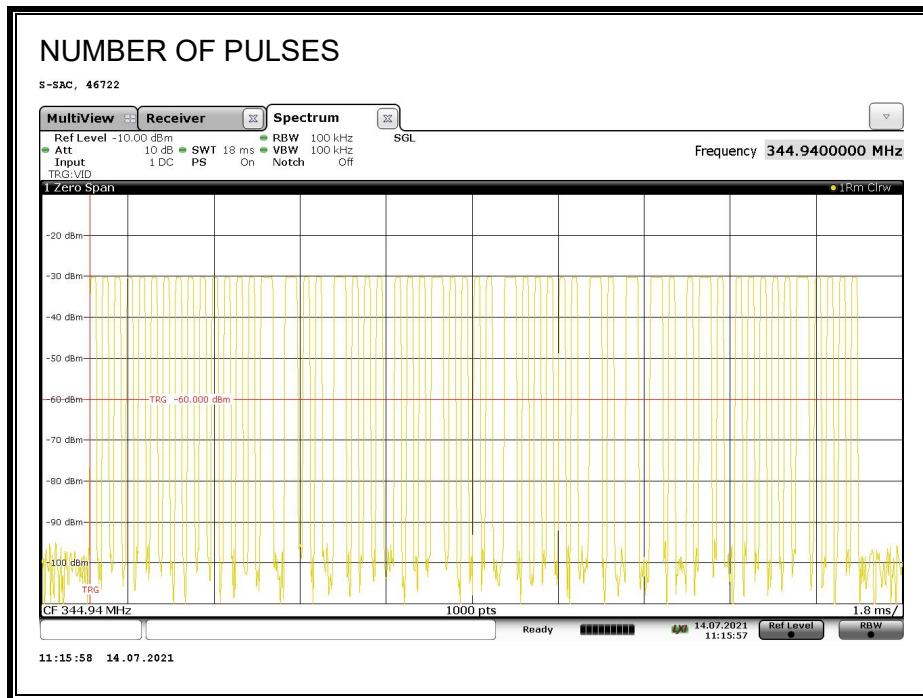
LONG PULSE WIDTH



SHORT PULSE WIDTH



NUMBER OF PULSES



7.3. TRANSMISSION TIME

LIMITS

FCC §15.231 (a) (2)

RSS-210 A1.1 (b)

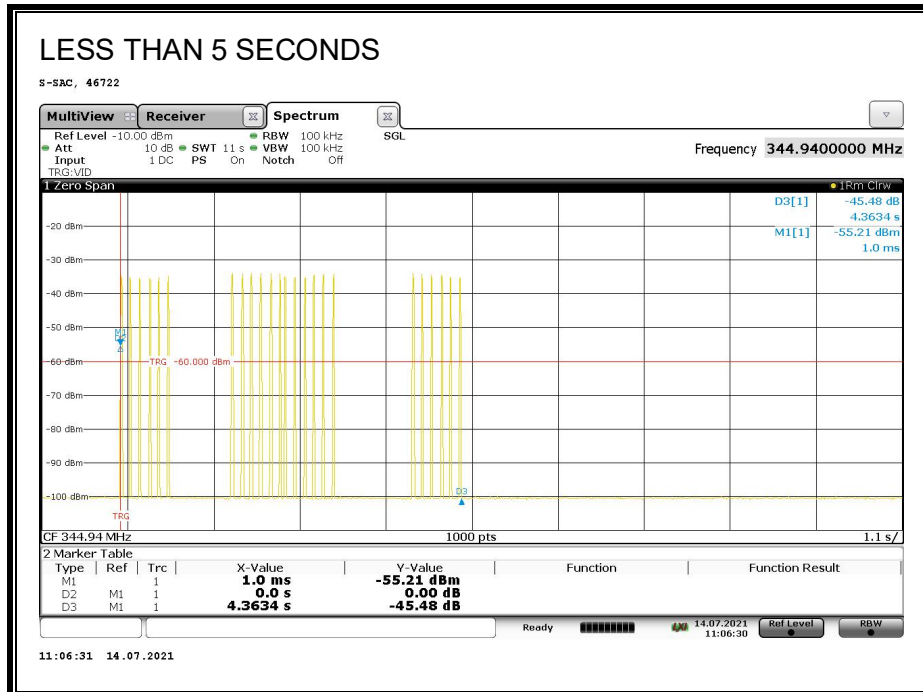
A transmitter activated automatically shall cease transmission within 5 seconds after activation.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 100 kHz and the VBW is set to 100 kHz. The sweep time is set to 11 seconds and the span is set to 0 Hz.

RESULTS

No non-compliance noted:



7.4. SUPERVISION TRANSMISSIONS

LIMITS

FCC §15.231 (a) (3)

Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour

RESULTS

Tester:	37903
Date:	2021-07-29

1. According to manufacturer manual, the interval of supervisory signal transmission is once every 60-70 minutes.
2. Total transmission time:

Short Pulse Width (ms)	Number of Short Pulse	Long Pulse Width (ms)	Number of Long Pulse	One Pulse Stream (ms)	Total Pulse Streams per hour	Total Transmission Time per hour (ms)
0.11	44	0.24	10	7.240	1.00	7.24

8. RADIATED EMISSION TEST RESULTS

8.1. TX RADIATED SPURIOUS EMISSION

LIMITS

FCC §15.231 (b)
 RSS-210 A 1.2

In addition to the provisions of § 15.205, the field strength of emissions from Intentional radiators operated under this section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental Frequency (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,750 ¹	125 to 375 ¹
174 - 260	3,750	375
260 - 470	3,750 to 12,500 ¹	375 to 1,250 ¹
Above 470	12,500	1,250

¹ Linear interpolation

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
2 Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§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:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 88	100 **	3
88 216	150 **	3
216 960	200 **	3
Above 960	500	3

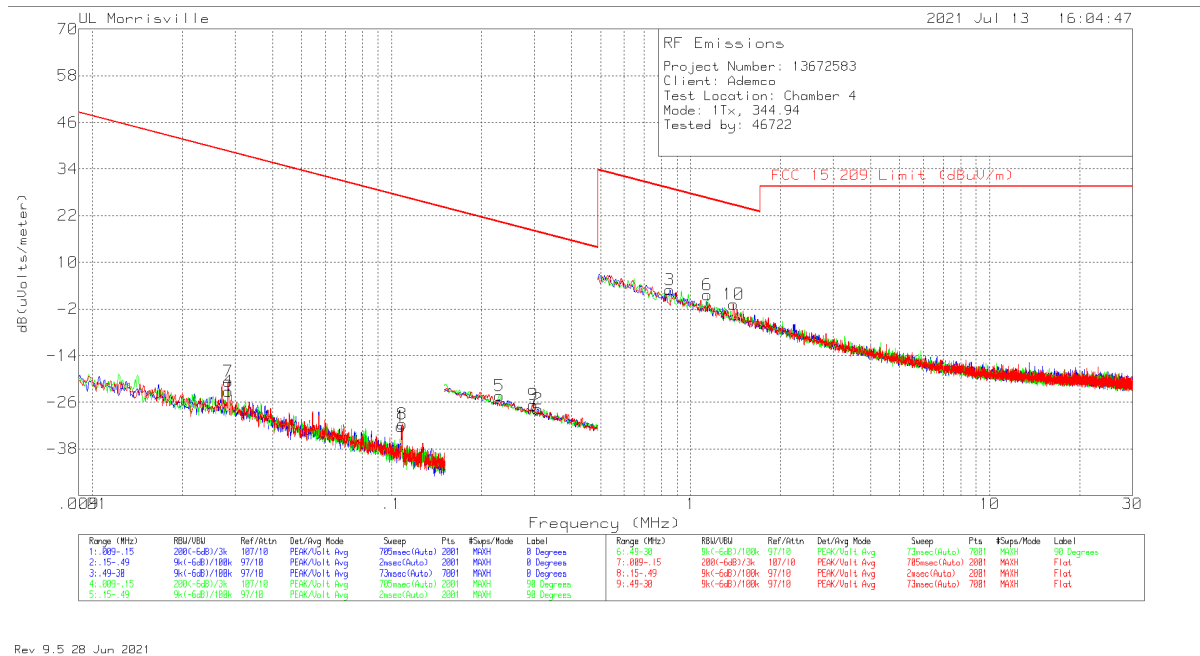
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 72 MHz, 76 88 MHz, 174 216 MHz or 470 806 MHz. However, operation within these frequency bands is permitted under other sections of this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

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

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as report in the table) using free space impedance of 377 Ohms. For example, the measurement at frequency 107.76 kHz resulted in a level of 26.96 dBuV/m, which is equivalent to $-32.25 - 51.5 = -83.75$ dBuA/m, which has the same margin, -59.21 dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

RESULTS

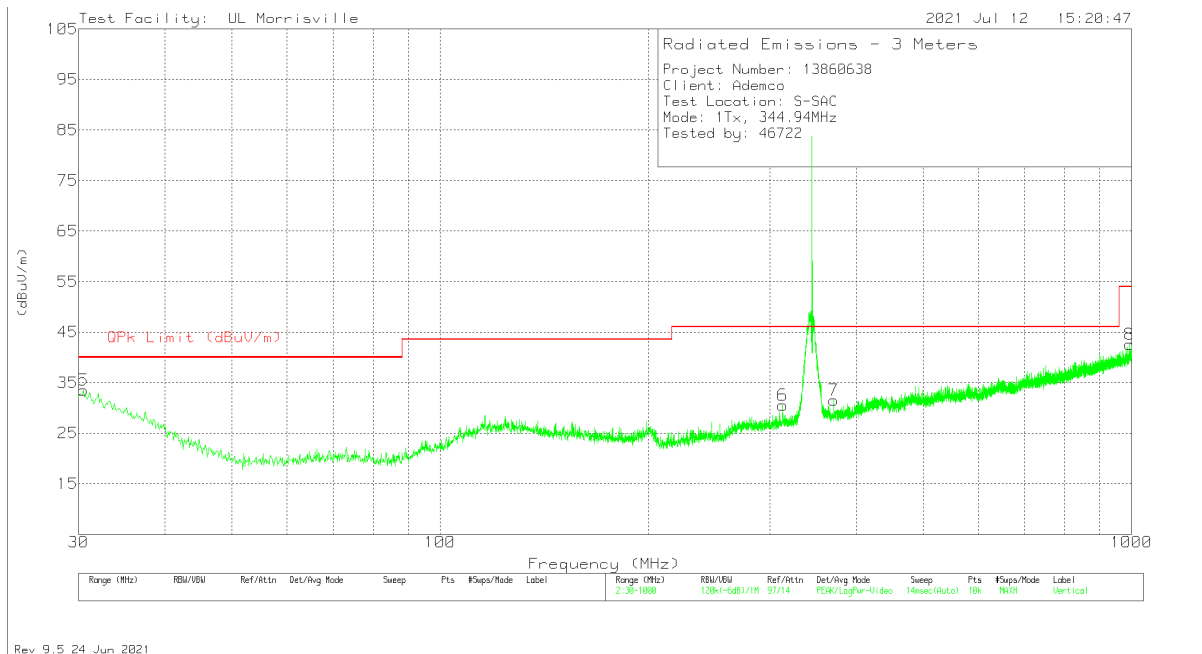
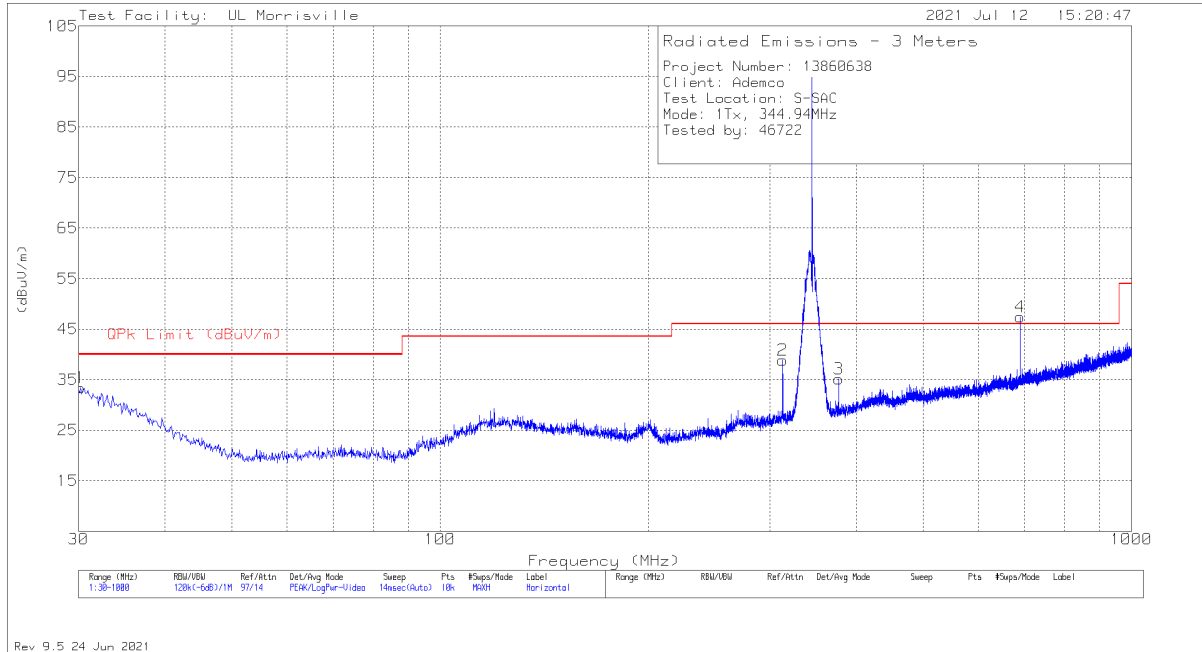
HARMONICS AND TX SPURIOUS EMISSION (0.009 - 30 MHz)



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0059 (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)	Loop Angle
1	.10776	37.15	Pk	10.5	.1	-80	-32.25	26.96	-	-59.21	0-360	0 degs
2	.30861	41.99	Pk	10.2	.1	-80	-27.71	17.82	17.82	-45.53	0-360	0 degs
3	.85258	32.3	Pk	10.4	.2	-40	2.9	28.99	-	-26.09	0-360	0 degs
4	.02845	43.18	Pk	13.5	.1	-80	-23.22	38.52	38.52	-61.74	0-360	90 degs
5	.22973	45.22	Pk	10.3	.1	-80	-24.38	20.38	20.38	-44.76	0-360	90 degs
6	1.13926	30.82	Pk	10.6	.2	-40	1.62	26.47	-	-24.85	0-360	90 degs
7	.02845	45.78	Pk	13.5	.1	-80	-20.62	38.52	38.52	-59.14	0-360	Flat
8	.10854	37.77	Pk	10.5	.1	-80	-31.63	26.89	-	-58.52	0-360	Flat
9	.29833	43.02	Pk	10.2	.1	-80	-26.68	18.11	18.11	-44.79	0-360	Flat
10	1.39222	28.28	Pk	10.6	.3	-40	-.82	24.73	-	-25.55	0-360	Flat

Pk - Peak detector

FUNDAMENTAL, HARMONICS AND TX SPURIOUS EMISSION (30 – 1000 MHz)



Project Number: 13672583
 Client: Ademco
 Test Location: S-SAC
 Mode: Fundamental
 Tested by: 46722
 Date Tested: 2021-07-08

Frequency (MHz)	Meter Reading (dBuV)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	FCC 15.231 Peak Limit [dBuV/m]	Peak Margin [dB]	DCCF (dB)	Average Field Strength [dBuV/m]	FCC 15.231 Average Limit [dBuV/m]	Average Margin [dB]	Azimuth (Degs)	Height (cm)	Polarity
344.94	70.48	Pk	20.3	3.8	94.58	97.25	-2.67	-22.85	71.73	77.25	-5.52	195	101	H
344.94	59.24	Pk	20.3	3.8	83.34	97.25	-13.91	-22.85	60.49	77.25	-16.76	293	304	V

Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0075 AF (dB/m)	Amp/Cbl (dB)	Pad (dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dB)	FCC 15.231 Peak Limit [dBuV/m]	FCC 15.231 Peak Margin [dB]	DCCF (dB)	Average Field Strength [dBuV/m]	FCC 15.231 Average Limit [dBuV/m]	FCC 15.231 Average Margin [dB]	Azimuth (Degs)	Height (cm)	Polarity
1	30.194	28.22	Pk	26.8	-31.5	9.9	33.42	40	-6.58	-	-	-	-	-	-	0-360	299	H
2	312.949	37.18	Pk	20	-28.4	10.1	38.88	46.02	-7.14	-	-	-	-	-	-	0-360	101	H
3	376.969	32.05	Pk	21.1	-28.1	10.1	35.15	46.02	-10.87	-	-	-	-	-	-	0-360	101	H
4	689.8886	38.61	Pk	26.1	-26.8	10.2	48.11	-	-	77.25	-29.14	-22.85	25.26	57.25	-31.99	11	102	H
5	30.485	28.29	Pk	26.7	-31.4	9.9	33.49	40	-6.51	-	-	-	-	-	-	0-360	299	V
6	312.949	28.84	Pk	20	-28.4	10.1	30.54	46.02	-15.48	-	-	-	-	-	-	0-360	299	V
7	370.955	28.41	Pk	21	-28	10.1	31.51	46.02	-14.51	-	-	-	-	-	-	0-360	199	V
8	* 992.919	26.25	Pk	29.4	-23.4	10.3	42.55	53.97	-11.42	-	-	-	-	-	-	0-360	299	V

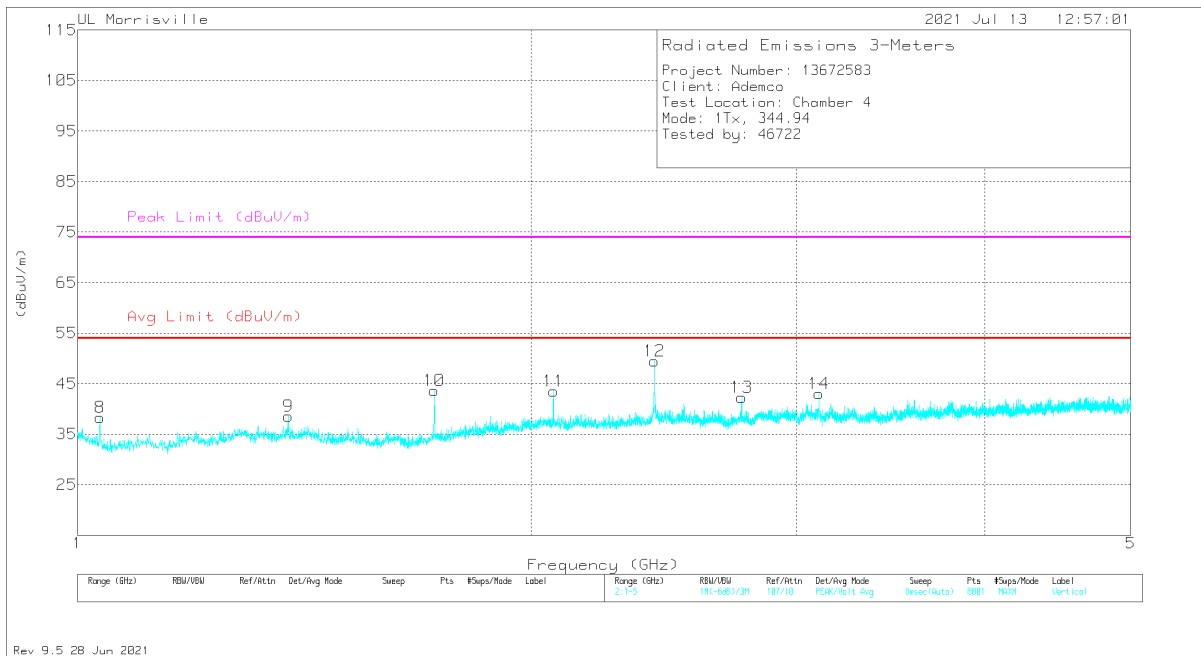
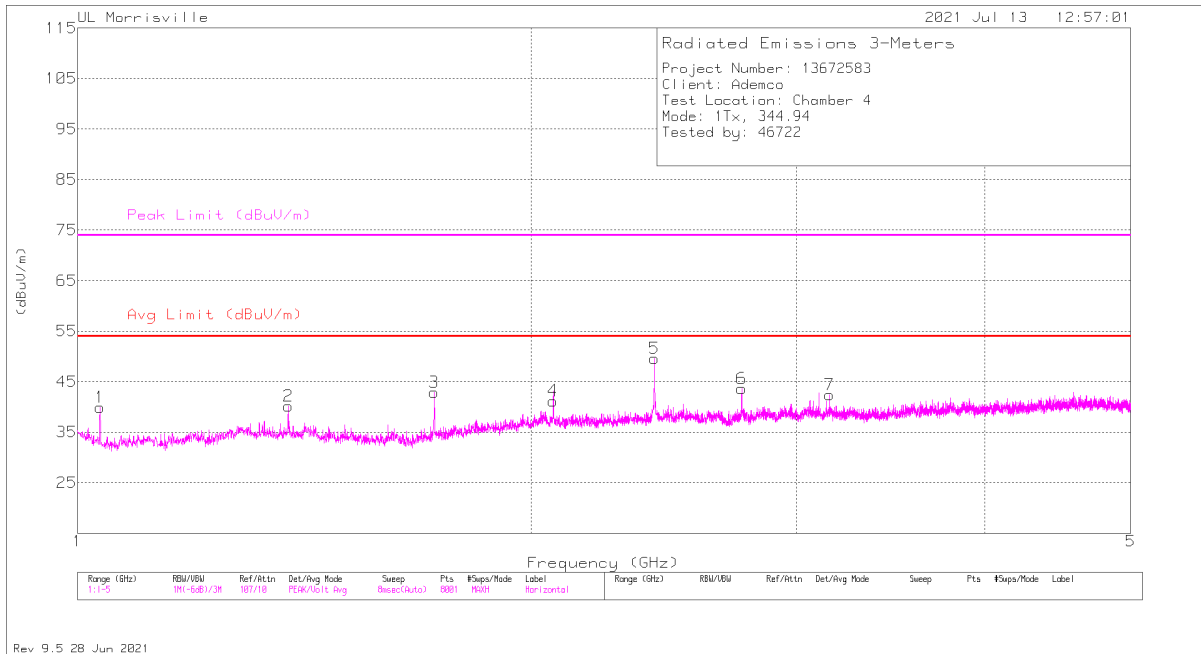
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

NOTE: Av = Pk + DC Corr (Duty Cycle Correction Factor)

HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 1GHZ



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	Corrected Reading (dBuV/m)	FCC Peak Limit (dBuV/m)	Peak Margin [dB]	DCCF (dB)	Average Field Strength [dBuV/m]	FCC Average Limit [dBuV/m]	Average Margin [dB]	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.0345	47.59	Pk	26.8	-35.9	1.4	39.89	74.0	-34.11	-22.85	17.04	54.0	-36.96	0-360	100	H
2	* 1.38	46.63	Pk	28.9	-36.5	1.1	40.13	74.0	-33.87	-22.85	17.28	54.0	-36.72	0-360	100	H
6	* 2.7595	47.64	Pk	32.0	-36.5	0.5	43.64	74.0	-30.36	-22.85	20.79	54.0	-33.21	0-360	300	H
8	* 1.0345	45.96	Pk	26.8	-35.9	1.4	38.26	74.0	-35.74	-22.85	15.41	54.0	-38.59	0-360	300	V
9	* 1.3795	45.02	Pk	28.9	-36.5	1.1	38.52	74.0	-35.48	-22.85	15.67	54.0	-38.33	0-360	400	V
13	* 2.7595	46.29	Pk	32.0	-36.5	0.5	42.29	74.0	-31.71	-22.85	19.44	54.0	-34.56	0-360	400	V
3	1.725	50.06	Pk	28.9	-36.6	0.5	42.86	77.3	-34.39	-22.85	20.01	57.3	-37.24	0-360	100	H
10	1.725	50.86	Pk	28.9	-36.6	0.5	43.66	77.3	-33.59	-22.85	20.81	57.3	-36.44	0-360	400	V
4	2.069	45.82	Pk	31.7	-36.7	0.4	41.22	77.3	-36.03	-22.85	18.37	57.3	-38.88	0-360	200	H
11	2.070	48.16	Pk	31.7	-36.7	0.4	43.56	77.3	-33.69	-22.85	20.71	57.3	-36.54	0-360	400	V
5	2.415	53.52	Pk	32.2	-36.6	0.5	49.62	77.3	-27.63	-22.85	26.77	57.3	-30.48	0-360	100	H
12	2.415	55.83	Pk	32.2	-36.6	0.5	51.93	77.3	-25.32	-22.85	29.08	57.3	-28.17	85	328	V
14	3.105	45.49	Pk	32.9	-36.0	0.6	42.99	77.3	-34.26	-22.85	20.14	57.3	-37.11	0-360	400	V
7	3.156	44.95	Pk	32.8	-35.9	0.5	42.35	77.3	-34.90	-22.85	19.50	57.3	-37.75	0-360	100	H

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

NOTE: Av = Pk + DC Corr (Duty Cycle Correction Factor)