



FCC 47 CFR PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

Dyvert Module with BT LE Transceiver

MODEL NUMBER: 6131

FCC ID: 2AHUPDV

REPORT NUMBER: 11162668C

ISSUE DATE: August 2, 2016

Prepared for

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Prepared by

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NVLAP Lab code: 100414-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	August 2, 2016	Initial Issue	BM

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY	5
4.1. <i>MEASURING INSTRUMENT CALIBRATION</i>	5
4.2. <i>SAMPLE CALCULATION</i>	5
4.3. <i>MEASUREMENT UNCERTAINTY</i>	6
5.6. <i>DESCRIPTION OF TEST SETUP</i>	8
6. TEST AND MEASUREMENT EQUIPMENT	9
7. TEST RESULTS FOR DYVERT	10
7.1.1. 99% BANDWIDTH and 20dB Bandwidth.....	10
7.2. <i>RADIATED EMISSIONS</i>	14
7.2.1. Duty Cycle Measurements	15
7.2.2. FUNDAMENTAL FREQUENCY RADIATED EMISSION	16
7.2.3. TRANSMITTER RESTRICTED BAND EDGES	17
7.2.4. HARMONICS AND SPURIOUS EMISSIONS ABOVE 1GHz	21
7.2.5. WORST-CASE BELOW 1 GHz	27
8. SETUP PHOTOS	30

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Osprey Medical Inc.
5600 Rowland Road, Suite 250
Minnetonka, MN 55343

EUT DESCRIPTION: Dyvert module with BT LE Transceiver

MODEL: 6131

SERIAL NUMBER: non-serilized

DATE TESTED: March 2016 – August 2016

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass

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

Approved & Released For
UL LLC By:



Michael Ferrer
Program Manager
UL LLC

Tested By:



Bart Mucha
Staff Engineer
UL LLC

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR 47 Part 2, FCC CFR 47 Part 15, 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 333 Pfingsten Road, Northbrook, IL 60062 USA.

UL NBK is accredited by NVLAP, Laboratory Code 100414-0. The full scope of accreditation can be viewed at <http://ts.nist.gov>

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

Sample Calculations

Radiated Field Strength and Conducted Emissions data contained within this report is calculated on the following basis:

Field Strength (dBuV/m) = Meter Reading (dBuV) + AF (dB/m) - Gain (dB) + Cable Loss (dB)

Conducted Voltage (dBuV) = Meter Reading (dBuV) + Cable Loss (dB) + LISN IL (dB)

Conducted Current (dBuA) = Meter Reading (dBuV) + Cable Loss (dB) - Transducer Factor (dBohms)

4.3. MEASUREMENT UNCERTAINTY

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

Test	Range	Equipment	Uncertainty k=2
Radiated Emissions	30-200MHz	Bicon 10m Horz	4.27dB
Radiated Emissions	30-200MHz	Bicon 10m Vert	4.28dB
Radiated Emissions	200-1000MHz	LogP 10m Horz	3.33dB
Radiated Emissions	200-1000MHz	LogP 10m Vert	3.39dB
Radiated Emissions	30-200MHz	Bicon 3m Horz	3.30dB
Radiated Emissions	30-130MHz	Bicon 3m Vert	4.84dB
Radiated Emissions	130-200MHz	Bicon 3m Vert	4.94dB
Radiated Emissions	200-1000MHz	LogP 3m Horz	3.46dB
Radiated Emissions	200-1000MHz	LogP 3m Vert	4.98dB
Radiated Emissions	1-6GHz	Horn	5.02dB
Radiated Emissions	6-18GHz	Horn	5.34dB
Radiated Emissions	18-26GHz	Horn	6.60dB
Conducted Ant Port	30MHz-26GHz	Spectrum Analyzer	2.94

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a BLE transceiver used in a dyvert module.

5.2. MAXIMUM OUTPUT E-FIELD STRENGTH

The transmitter has a maximum output peak E-field as follows:

Frequency Range (MHz)	Mode	Output Power Peak E-field Strength (dBuV/m)
2402-2480	BT LE (dyvert)	79.18*
* for fundamental measurements the final AV data shows levels higher then the peak. This is a result of adding in the DC correction factor.		

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna is incorporated into the circuit board.

5.4. SOFTWARE AND FIRMWARE

The PC software utility was Texas Instruments (TI) HCI Tester ver 2.3.5.0 in the TI Bluetooth Tools 5.2.0 utility pack running on a Windows 10 laptop.

The firmware and BLE stack was TI ver. 1.4.0 set in "Production Test Mode" to create a worst case transmission scenario (see Section 5.5).

5.5. WORST-CASE CONFIGURATION AND MODE

For dyvert module it was determined that worst case was when EUT was oriented in Y-Axis

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

None

I/O CABLES

None

TEST SETUP

The EUT is standalone device powered by a single AAA battery.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESU	EMC4323	20160102	20170131
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC4328	20151118	20161118
Bicon Antenna	Chase	VBA6106A	EMC4078	20151228	20161231
Log-P Antenna	Chase	UPA6109	EMC4313	20160122	20170131
Antenna Array	UL	BOMS	EMC4276	20151115	20161115
Spectrum Analyzer	Agilent	N9030A (PXA)	EMC4360	20160108	20170131

7. TEST RESULTS FOR DYVERT

7.1.1. 99% BANDWIDTH and 20dB Bandwidth

LIMITS

None; for reporting purposes only.

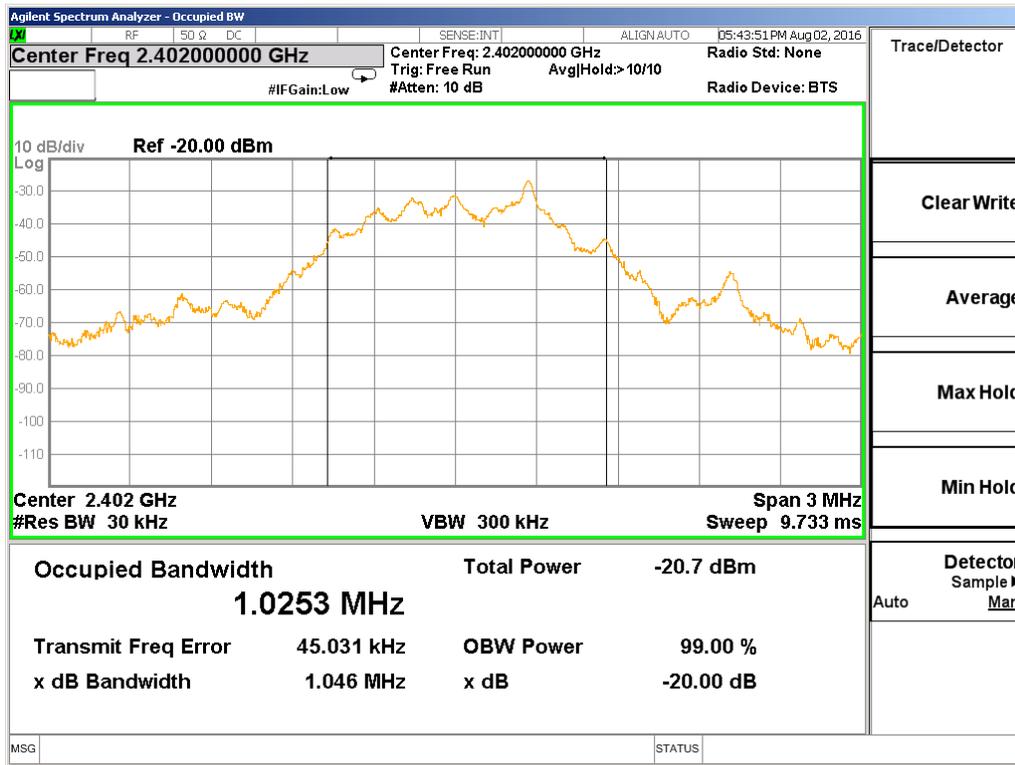
TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 5% 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.

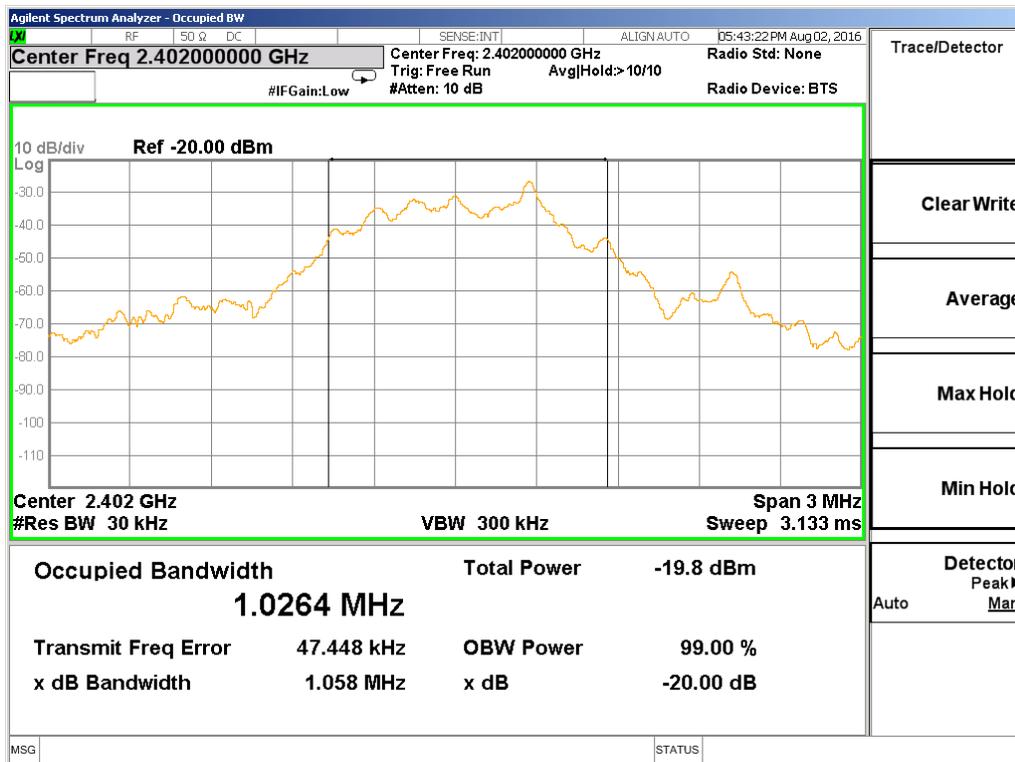
RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)	20dB Bandwidth (MHz)
Low	2402	1.0253	1.0580
Middle	2440	1.0215	1.0630
High	2480	1.0265	1.0580

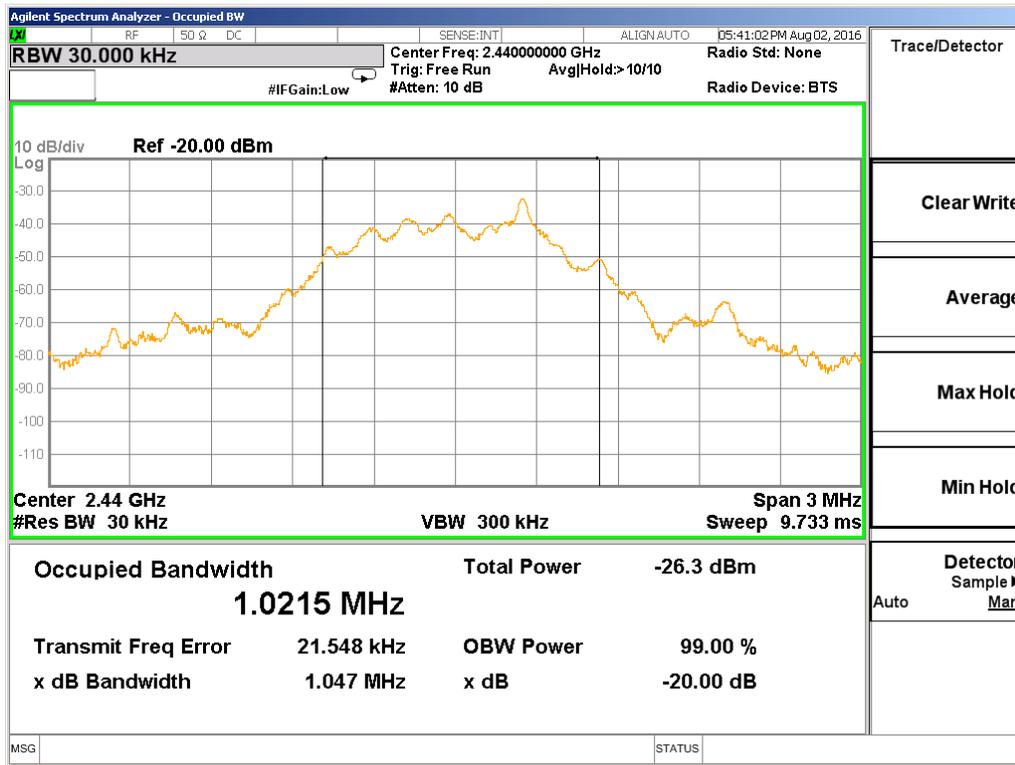
Low Channel 99% BANDWIDTH



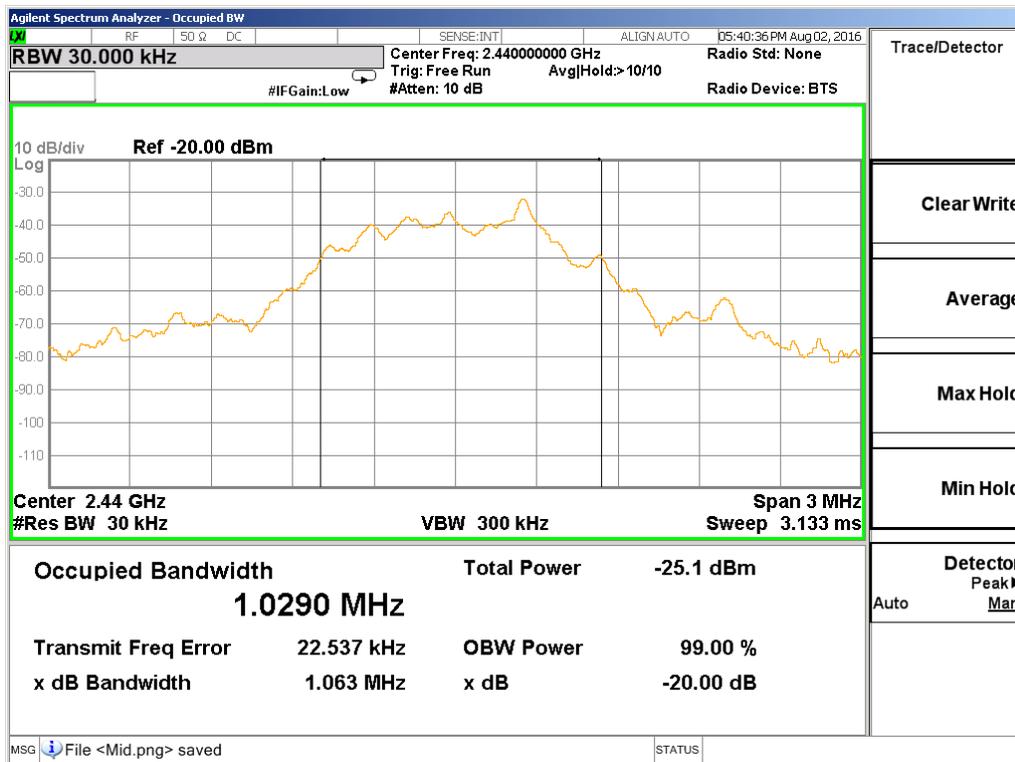
Low Channel 20dB Bandwidth



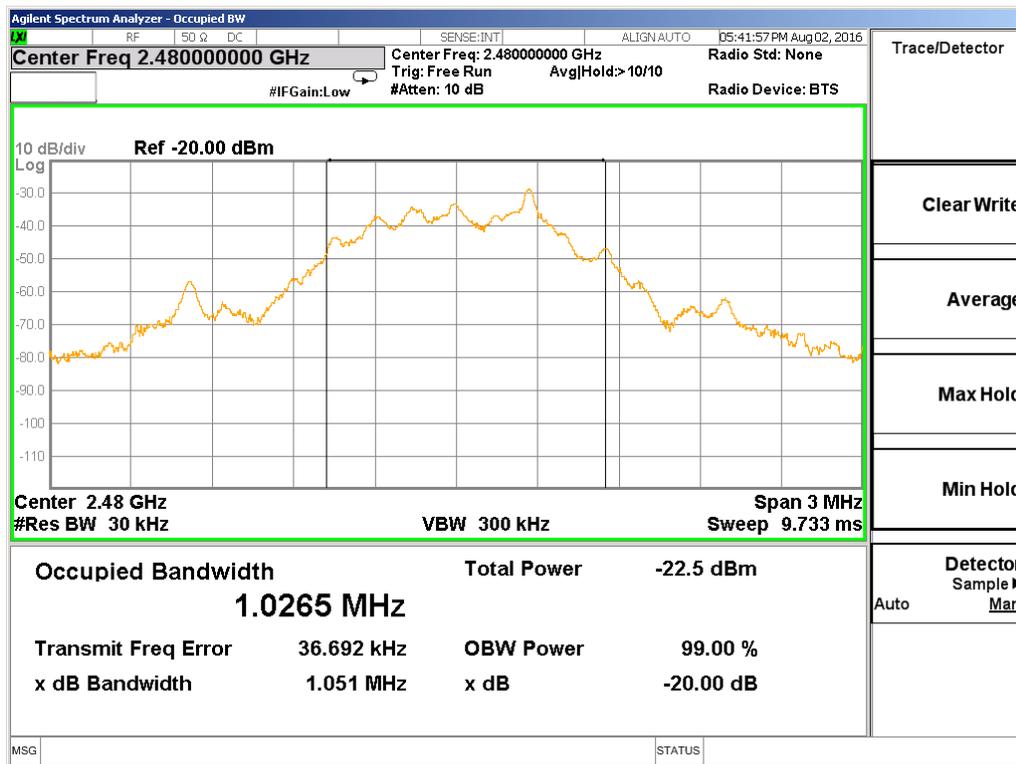
Middle Channel 99% BANDWIDTH



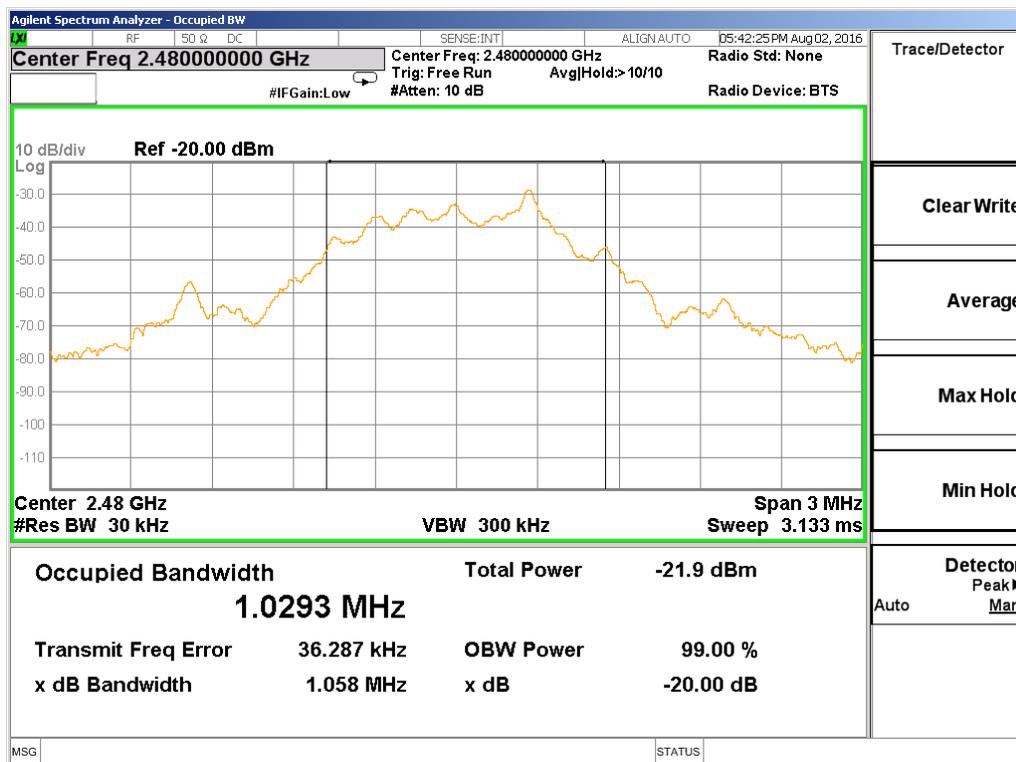
Middle Channel 20dB Bandwidth



High Channel 99% BANDWIDTH



High Channel 20dB Bandwidth



7.2. RADIATED EMISSIONS

MEASUREMENT METHODS

Since there is no specific measurement guidance defined for the below referenced standards therefore measurements were conducted per FCC KDB: 558074 D01 DTS Meas Guidance v03r04, Power RMS with trace averaging and duty cycle correction.

LIMIT

FCC 15.249

Operation within the bands 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHz, and 24.0–24.25 GHz.

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

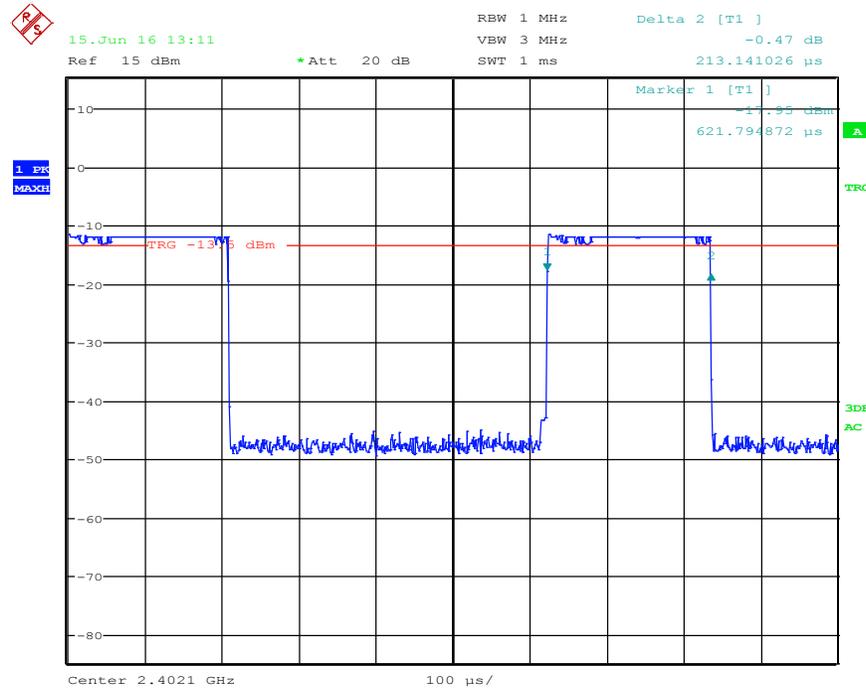
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100 **	3
88–216	150 **	3
216–960	200 **	3
Above 960	500	3

** 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.

RESULTS

7.2.1. Duty Cycle Measurements

TX On Time

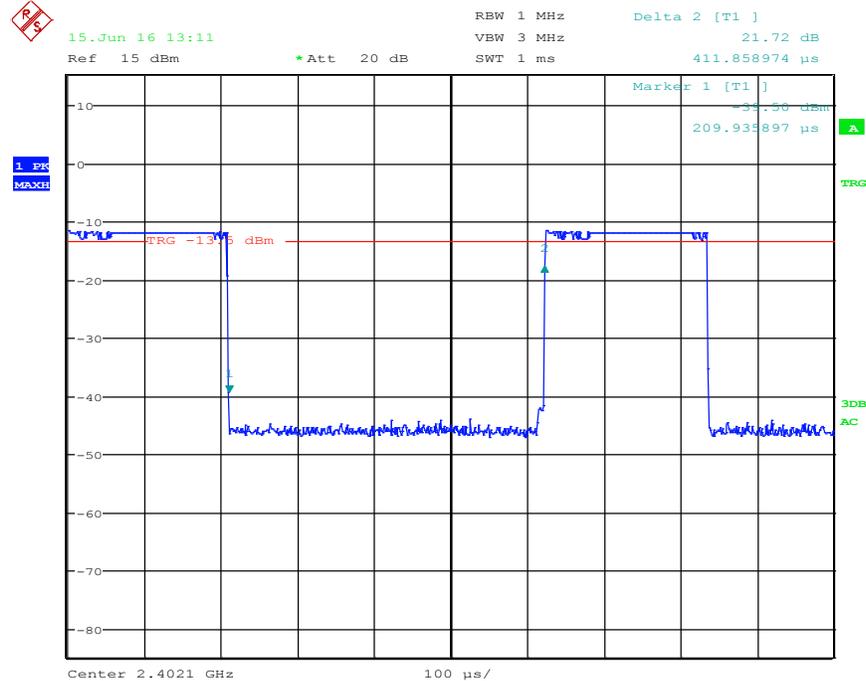


TX ON Time: 213.14uS
TX Period Time: 624.99uS

Power RMS
DC = $10 \cdot \log(\text{TX})$
On/TXPeriod) = 4.67dB

Voltage AV
DC = $20 \cdot \log(\text{TX})$
On/TXPeriod) = 9.34dB

TX Off Time



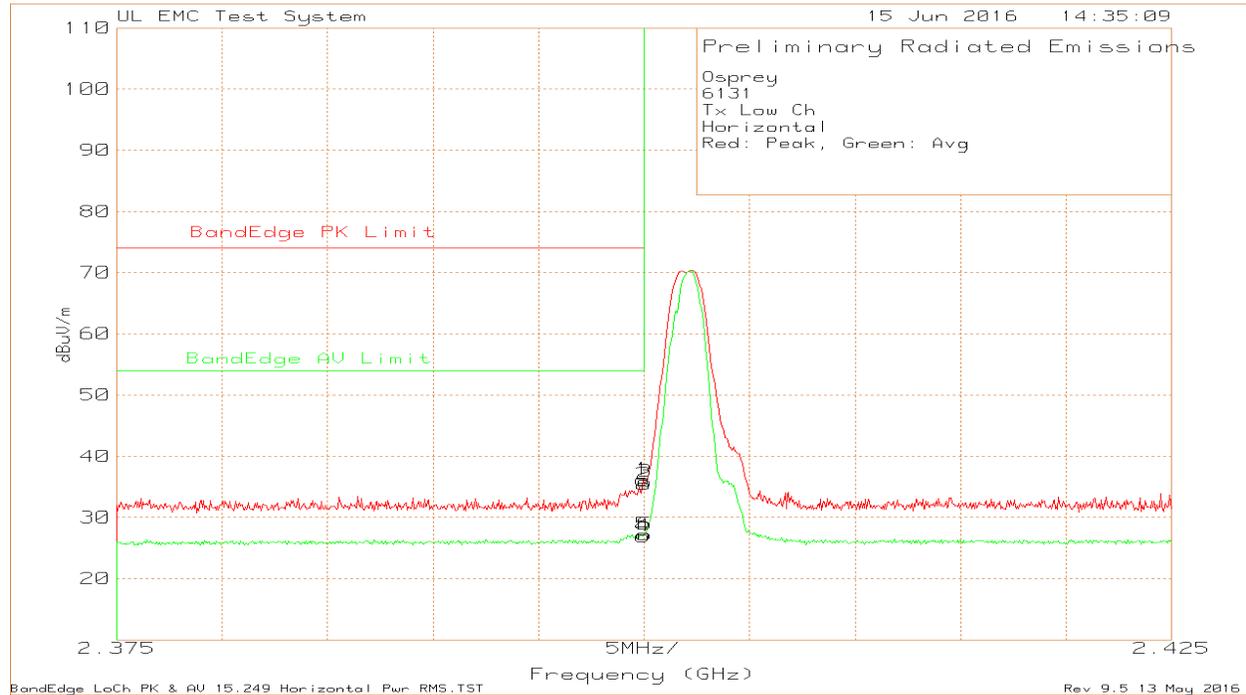
7.2.2. FUNDAMENTAL FREQUENCY RADIATED EMISSION

Worst Case Fundamental Emissions

Osprey											
6131 - Dyvert											
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Duty Cycle dB	Level dBuV/m	Limit dBuV/m	Margin dB	Azimuth [Degs]	Height [cm]	Polarity
2.4022	99.78	Pk	21.8	-51.11	-	70.47	114	-43.53	314	119	H
2.4022	95.76	RMS	21.8	-51.11	4.67	71.12	94	-22.88	314	119	H
2.4023	106.12	Pk	21.8	-51.11	-	76.81	114	-37.19	224	215	V
2.4021	101.49	RMS	21.8	-51.11	4.67	76.85	94	-17.15	224	215	V
2.4401	47	Pk	21.9	4.72	-	73.62	114	-40.38	237	149	H
2.4401	41.73	RMS	21.9	4.72	4.67	73.02	94	-20.98	237	149	H
2.4402	52.56	Pk	21.9	4.72	-	79.18	114	-34.82	149	263	V
2.4402	48.2	RMS	21.9	4.72	4.67	79.49	94	-14.51	149	263	V
2.4802	101.16	Pk	22	-51.37	-	71.79	114	-42.21	322	139	H
2.4802	97.27	RMS	22	-51.37	4.67	72.57	94	-21.43	322	139	H
2.4801	107.2	Pk	22	-51.37	-	77.83	114	-36.17	198	229	V
2.4801	103.92	RMS	22	-51.37	4.67	79.22	94	-14.78	198	229	V
PK - Peak Detector											
RMS - Power RMS Detector											
* All measurements are conducted with the sample in Y-Axis. This was established as worst case based on preliminary measurements.											

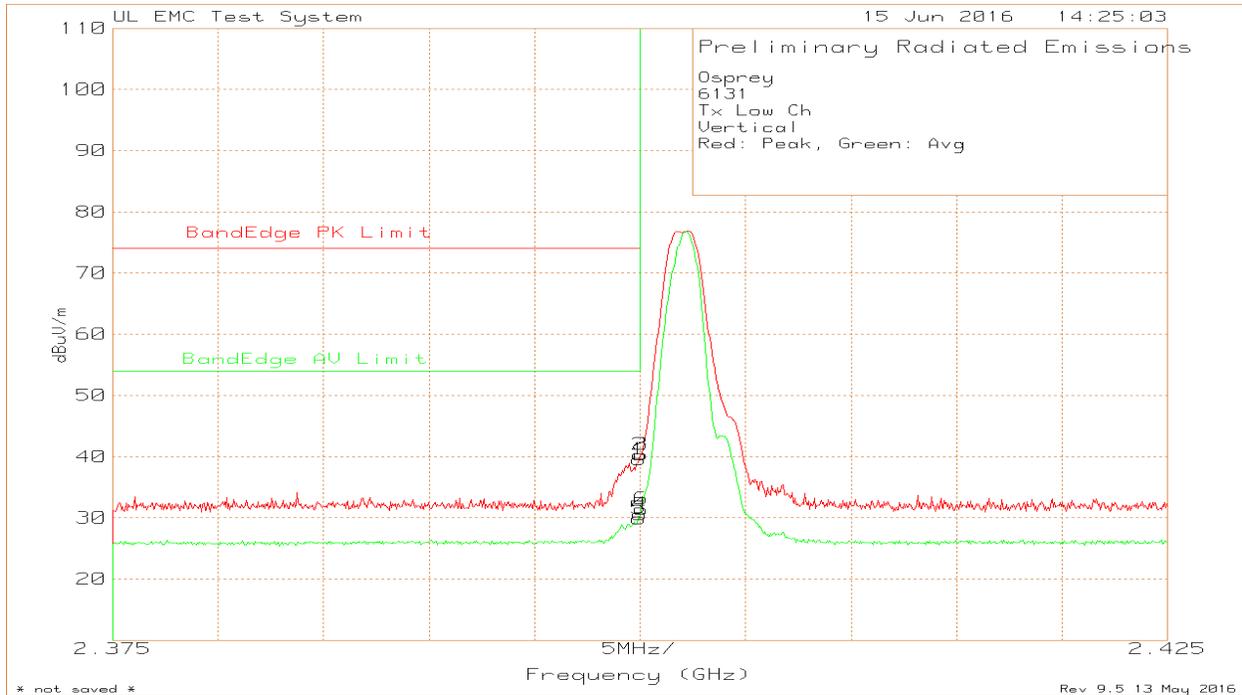
7.2.3. TRANSMITTER RESTRICTED BAND EDGES

BANDEDGE (LOW CHANNEL, HORIZONTAL)



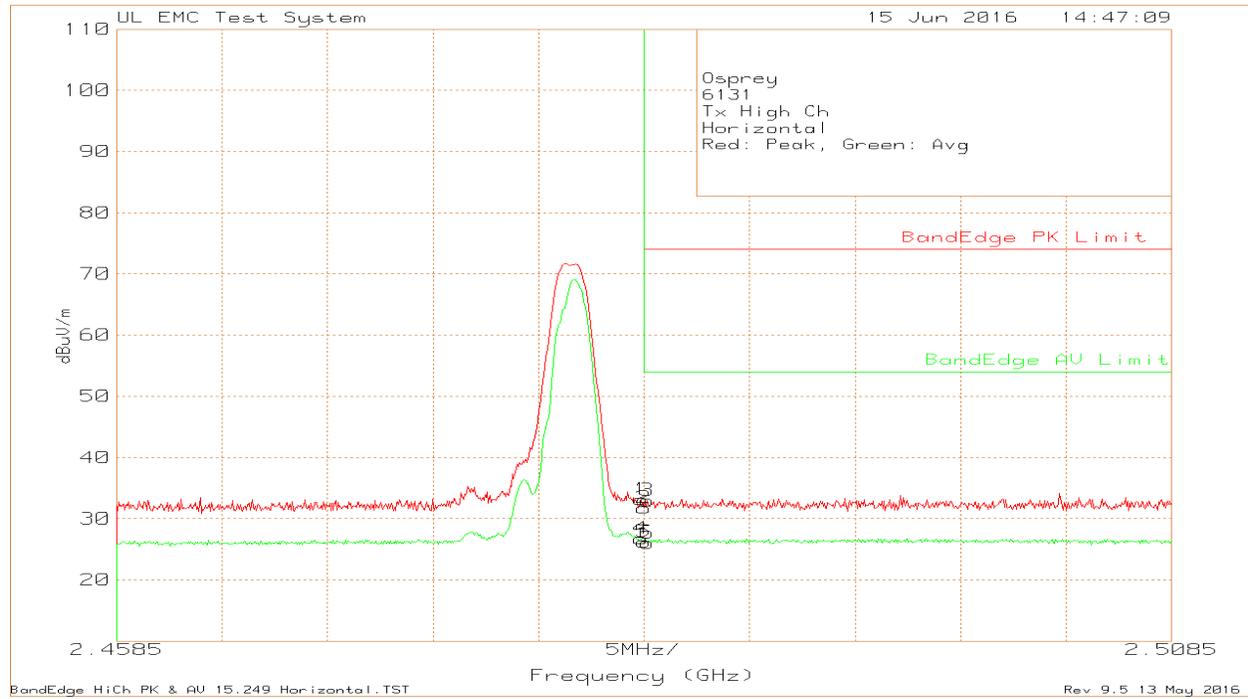
Osprey												
6131 - Dyvert												
Tx Low Ch												
Horizontal												
Trace Markers												
Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Duty Cycle Factor dB	Path Factor dB	Level dBuV/m	Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	2.4	65.45	Pk	21.8	-	-51.1	36.15	74	-37.85	314	119	H
2	2.4	64.72	Pk	21.8	-	-51.1	35.42	74	-38.58	314	119	H
3	2.4001	65.17	Pk	21.8	-	-51.1	35.87	-	-	314	119	H
4	2.4	51.55	RMS	21.8	4.7	-51.1	26.95	54	-27.05	314	119	H
5	2.4	51.84	RMS	21.8	4.7	-51.1	27.24	54	-26.76	314	119	H
6	2.4001	51.84	RMS	21.8	4.7	-51.1	27.24	-	-	314	119	H
Pk - Peak detector												
RMS - RMS detection												

BANDEDGE (LOW CHANNEL, VERTICAL)



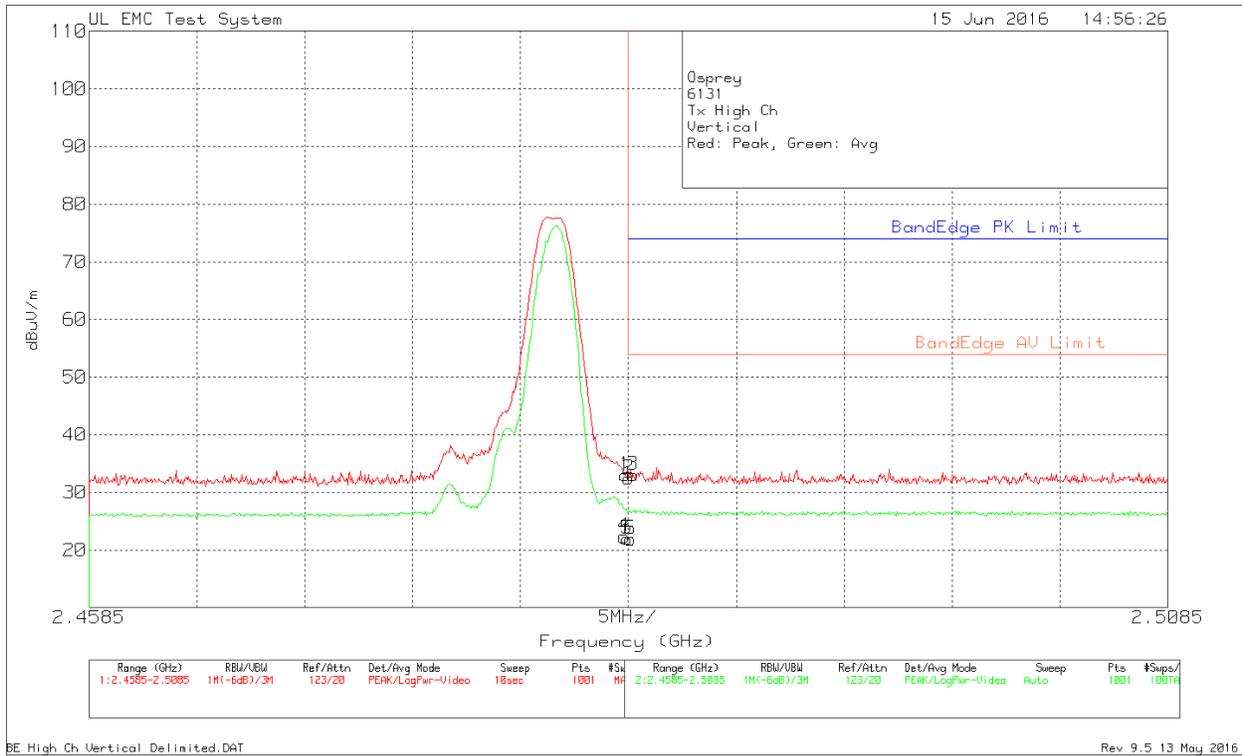
Osprey												
6131 - Dyvert												
Tx Low Ch												
Vertical												
Trace Markers												
Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Duty Cycle Factor dB	Path Factor dB	Level dBuV/m	Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	2.4	68.84	Pk	21.8		-51.1	39.54	74	-34.46	224	215	V
2	2.4	69.65	Pk	21.8		-51.1	40.35	74	-33.65	224	215	V
3	2.4001	69.64	Pk	21.8		-51.1	40.34	-	-	224	215	V
4	2.4	55.2	Pk	21.8	4.7	-51.1	30.6	54	-23.4	224	215	V
5	2.4	54.49	Pk	21.8	4.7	-51.1	29.89	54	-24.11	224	215	V
6	2.4001	56.03	Pk	21.8	4.7	-51.1	31.43	-	-	224	215	V
PK - Peak detector												
RMS - RMS detection												

BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Osprey												
6131 - Dyvert												
Tx High Ch												
Horizontal												
Trace Markers												
Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Duty Cycle Factor dB	Path Factor dB	Level dBuV/m	Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	2.4834	62.39	Pk	22.1	-	-51.34	33.15	-	-	322	139	H
2	2.4835	61.01	Pk	22.1	-	-51.34	31.77	74	-42.23	322	139	H
3	2.4837	62.21	Pk	22.1	-	-51.34	32.97	74	-41.03	322	139	H
4	2.4834	51.29	RMS	22.1	4.7	-51.34	26.75	-	-	322	139	H
5	2.4835	50.74	RMS	22.1	4.7	-51.34	26.2	54	-27.8	322	139	H
6	2.4837	50.56	RMS	22.1	4.7	-51.34	26.02	54	-27.98	322	139	H
Pk - Peak detector												
RMS - RMS detection												

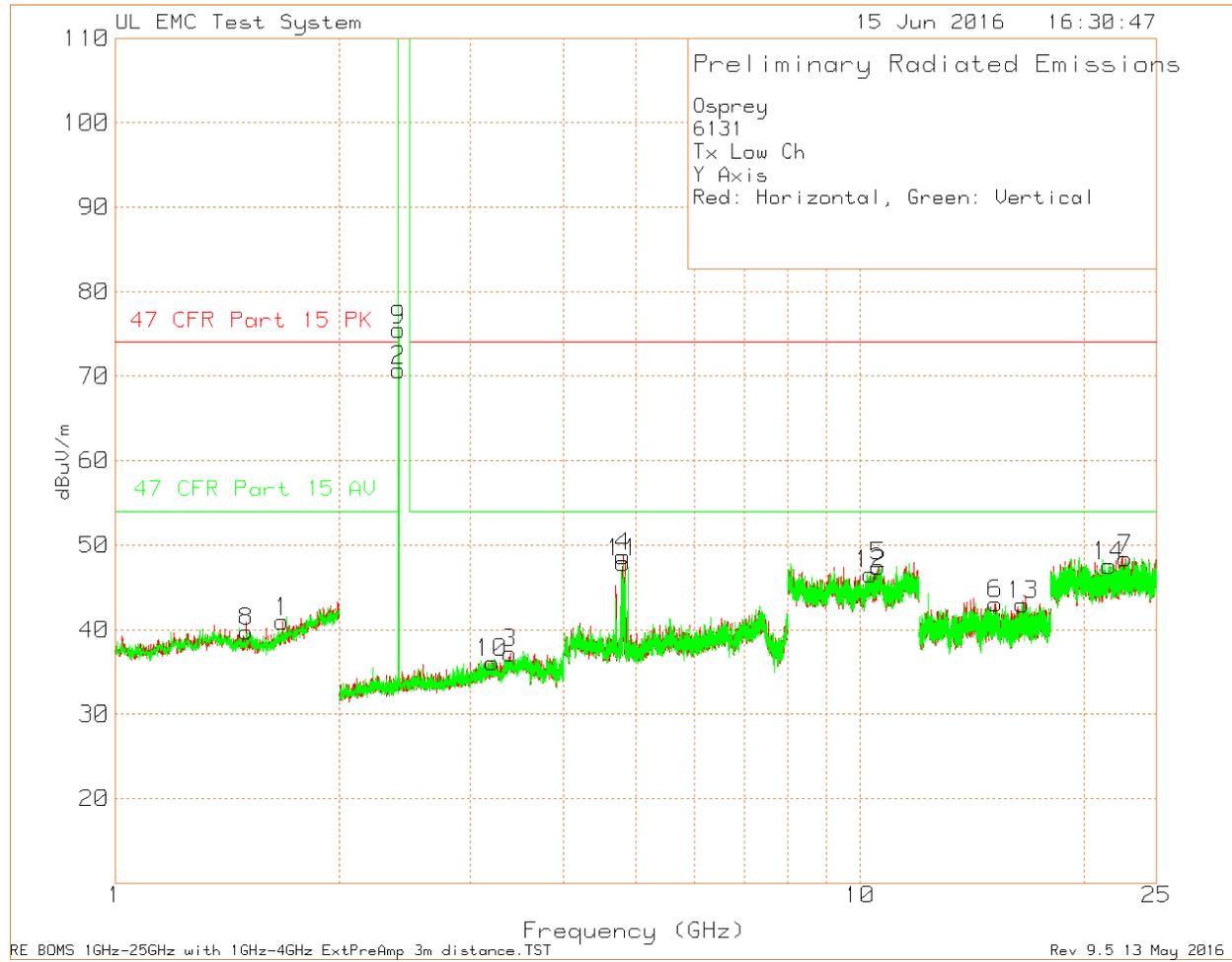
BANDEDGE (HIGH CHANNEL, VERTICAL)



Osprey												
6131 - Dyvert												
Tx High Ch												
Vertical												
Trace Markers												
Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Duty Cycle Factor dB	Path Factor dB	Level dBuV/m	Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	2.4834	62.28	Pk	22.1	-	-51.34	33.04	-	-	198	229	V
2	2.4835	61.7	Pk	22.1	-	-51.34	32.46	74	-41.54	198	229	V
3	2.4837	62.3	Pk	22.1	-	-51.34	33.06	74	-40.94	198	229	V
4	2.4833	51.71	RMS	22	4.7	-51.34	27.07	-	-	198	229	V
5	2.4835	51.19	RMS	22.1	4.7	-51.34	26.65	54	-27.35	198	229	V
6	2.4836	51.12	RMS	22.1	4.7	-51.34	26.58	54	-27.42	198	229	V
Pk - Peak detector												
RMS - RMS detection												

7.2.4. HARMONICS AND SPURIOUS EMISSIONS ABOVE 1GHz

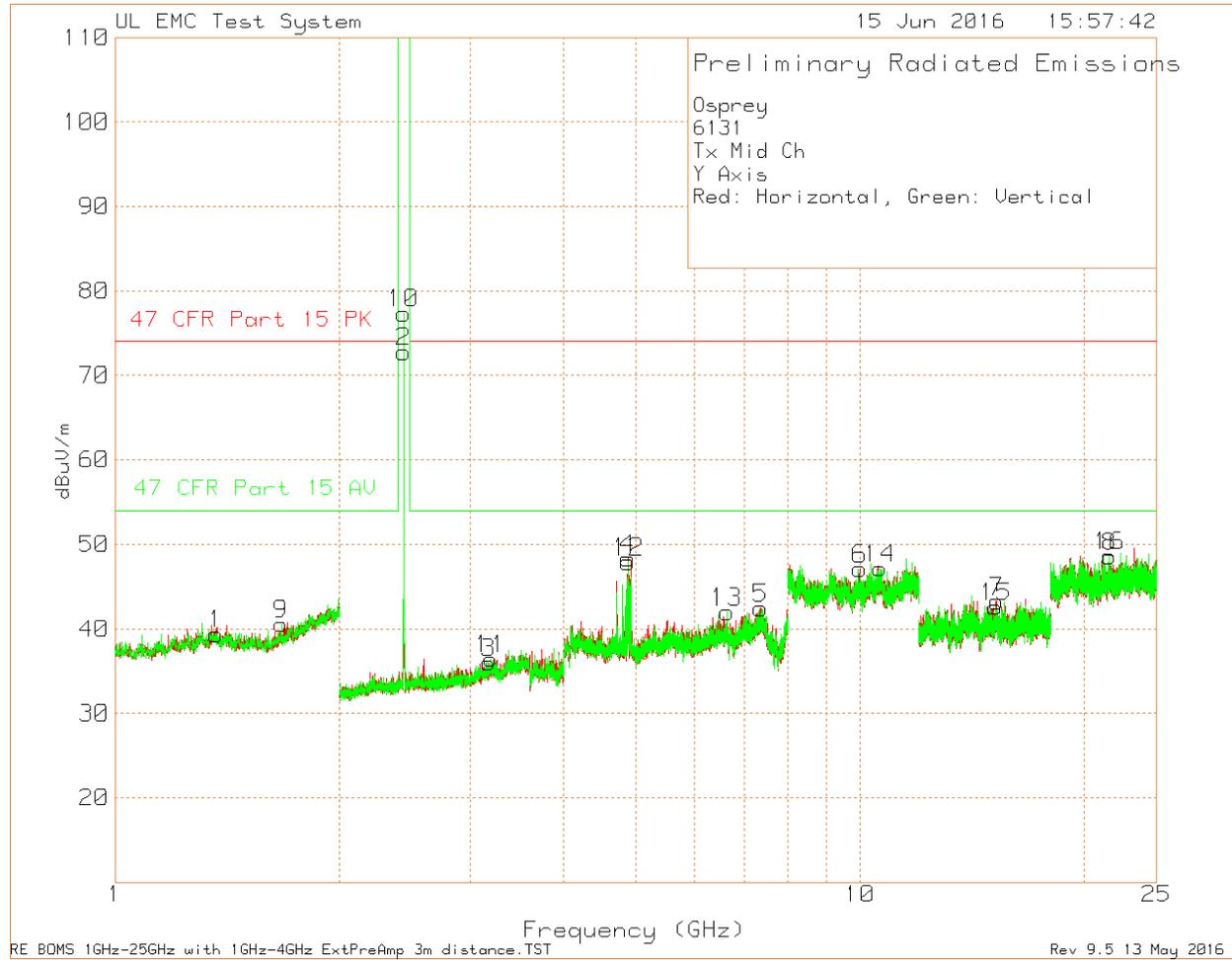
Low Channel – Plot



Low Channel - Data

Osprey													
6131 - Dyvert													
Tx Low Ch													
Y Axis													
Trace Markers													
Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Peak Limit dBuV/m	Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	1.676	67.4	Pk	29	-55.45	40.95	74	-33.05	54	-13.05	0-360	150	H
2	2.402	100.02	Pk	21.8	-51.11	70.71	-	-	-	-	0-360	150	H
3	3.391	63.99	Pk	23.4	-50.17	37.22	74	-36.78	54	-16.78	0-360	150	H
4	4.806	72.46	Pk	27.7	-51.48	48.68	74	-25.32	54	-5.32	0-360	148	H
5	10.571	58.31	Pk	36.3	-47.13	47.48	74	-26.52	54	-6.52	0-360	150	H
6	15.191	44.03	Pk	39.9	-40.84	43.09	74	-30.91	54	-10.91	0-360	100	H
7	22.716	53.17	Pk	40.4	-45.13	48.44	74	-25.56	54	-5.56	0-360	100	H
8	1.501	67.58	Pk	28	-55.8	39.78	74	-34.22	54	-14.22	0-360	100	V
9	2.402	104.82	Pk	21.8	-51.11	75.51	-	-	-	-	0-360	150	V
10	3.206	63.01	Pk	23.2	-50.1	36.11	74	-37.89	54	-17.89	0-360	100	V
11	4.806	71.72	Pk	27.7	-51.48	47.94	74	-26.06	54	-6.06	0-360	99	V
12	10.33	57.5	Pk	36.2	-47.14	46.56	74	-27.44	54	-7.44	0-360	150	V
13	16.529	43.89	Pk	39.7	-40.61	42.98	74	-31.02	54	-11.02	0-360	150	V
14	21.589	53.21	Pk	40.3	-45.95	47.56	74	-26.44	54	-6.44	0-360	100	V
Radiated Emission Data													
Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Peak Limit dBuV/m	Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity	
4.806	73.79	Pk	27.7	-51.48	50.01	74	-23.99	54	-3.99	197	240	H	
4.806	73.18	Pk	27.7	-51.48	49.4	74	-24.6	54	-4.6	270	100	V	
Pk - Peak detector													

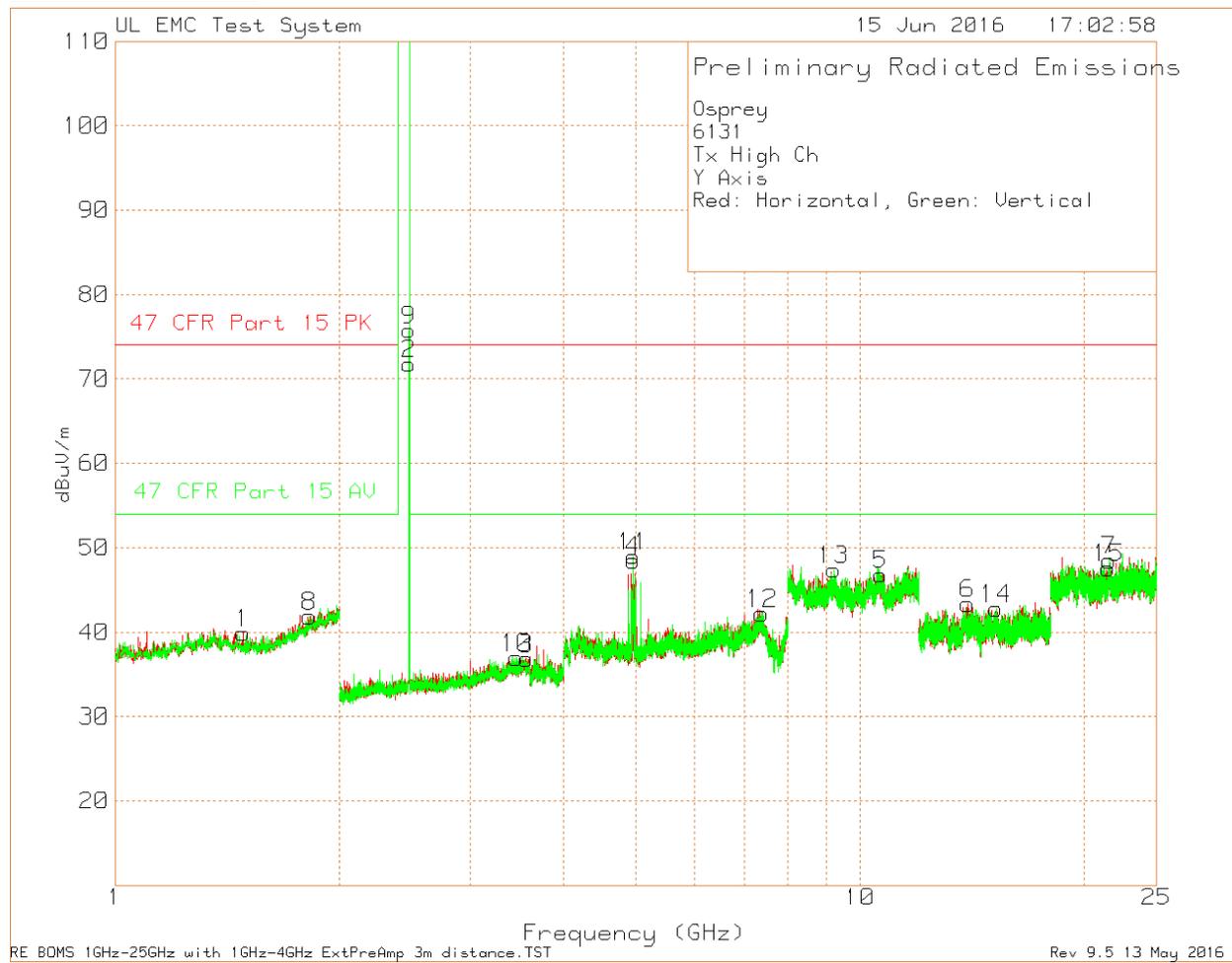
Middle Channel – Plot



Middle Channel Data

Osprey													
6131 - Dyvert													
Tx Mid Ch													
Y Axis													
Trace Markers													
Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Peak Limit dBuV/m	Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	1.366	66.88	Pk	29	-56.5	39.38	74	-34.62	54	-14.62	0-360	213	H
2	2.439	102.29	Pk	21.9	-51.4	72.78	-	-	-	-	0-360	100	H
3	3.173	63.37	Pk	23	-50.4	36.02	74	-37.98	54	-17.98	0-360	213	H
4	4.882	71.41	Pk	27.7	-50.8	48.34	74	-25.66	54	-5.66	0-360	211	H
5	7.351	57.89	Pk	30.8	-46.3	42.42	74	-31.58	54	-11.58	0-360	211	H
6	9.989	58.48	Pk	36.4	-47.8	47.11	74	-26.89	54	-6.89	0-360	100	H
7	15.259	44.12	Pk	40	-40.9	43.22	74	-30.78	54	-10.78	0-360	100	H
8	21.621	54.41	Pk	40.3	-46.2	48.56	74	-25.44	54	-5.44	0-360	100	H
9	1.671	67.02	Pk	29	-55.5	40.57	74	-33.43	54	-13.43	0-360	100	V
10	2.44	106.89	Pk	21.9	-51.4	77.37	-	-	-	-	0-360	150	V
11	3.194	63.41	Pk	23.2	-50.2	36.46	74	-37.54	54	-17.54	0-360	100	V
12	4.882	70.97	Pk	27.7	-50.8	47.9	74	-26.1	54	-6.1	0-360	100	V
13	6.624	60	Pk	28.9	-46.9	41.97	74	-32.03	54	-12.03	0-360	100	V
14	10.64	57.81	Pk	36.4	-47	47.19	74	-26.81	54	-6.81	0-360	99	V
15	15.21	43.71	Pk	39.9	-41	42.6	74	-31.4	54	-11.4	0-360	100	V
16	21.609	54.42	Pk	40.3	-46.1	48.61	74	-25.39	54	-5.39	0-360	100	V
Radiated Emission Data													
	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Peak Limit dBuV/m	Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
	4.882	73.06	Pk	27.7	-50.8	49.99	74	-24.01	54	-4.01	186	210	H
	4.8821	71.65	Pk	27.7	-50.8	48.58	74	-25.42	54	-5.42	260	100	V
Pk - Peak detector													

High Channel – Plot

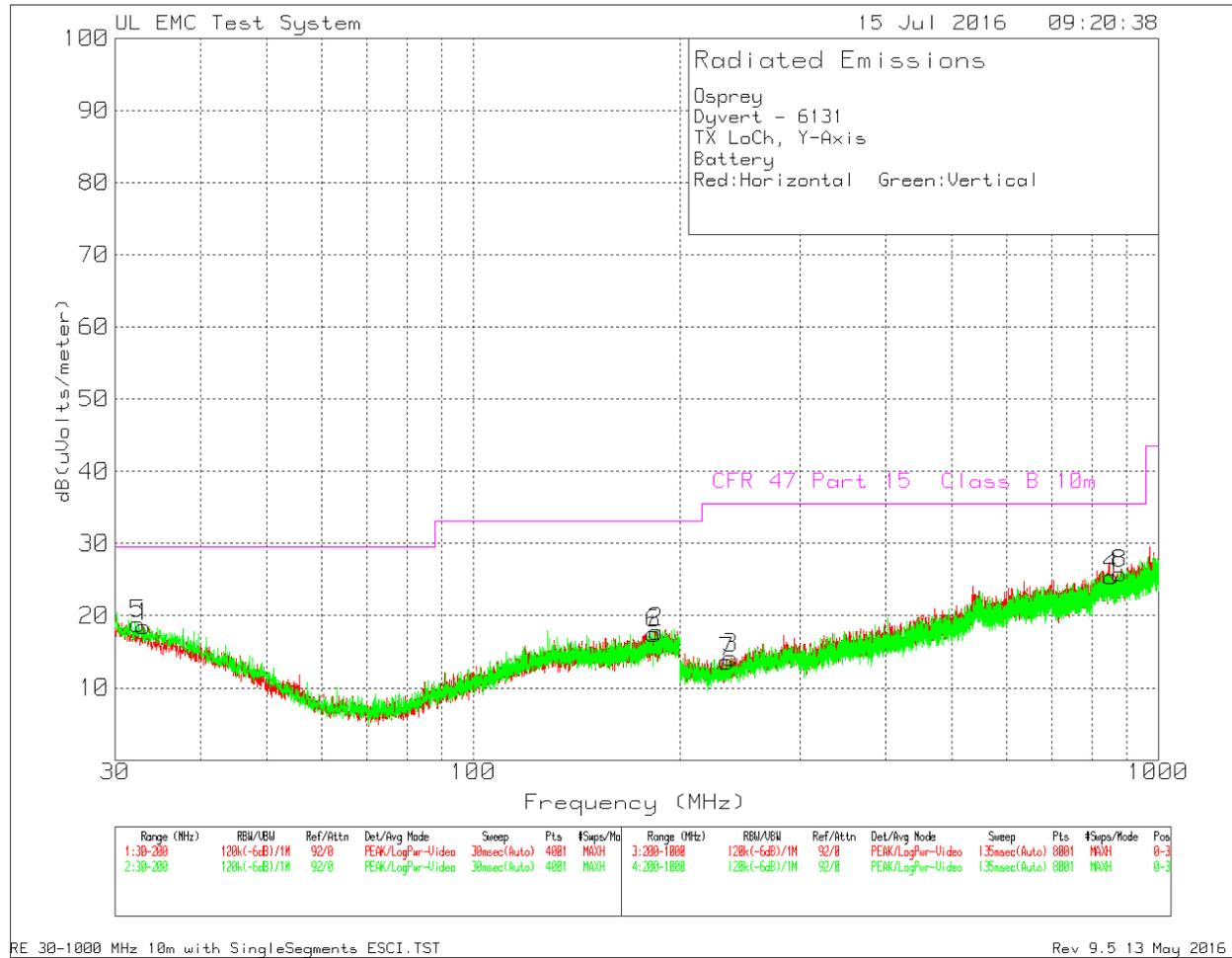


High Channel - Data

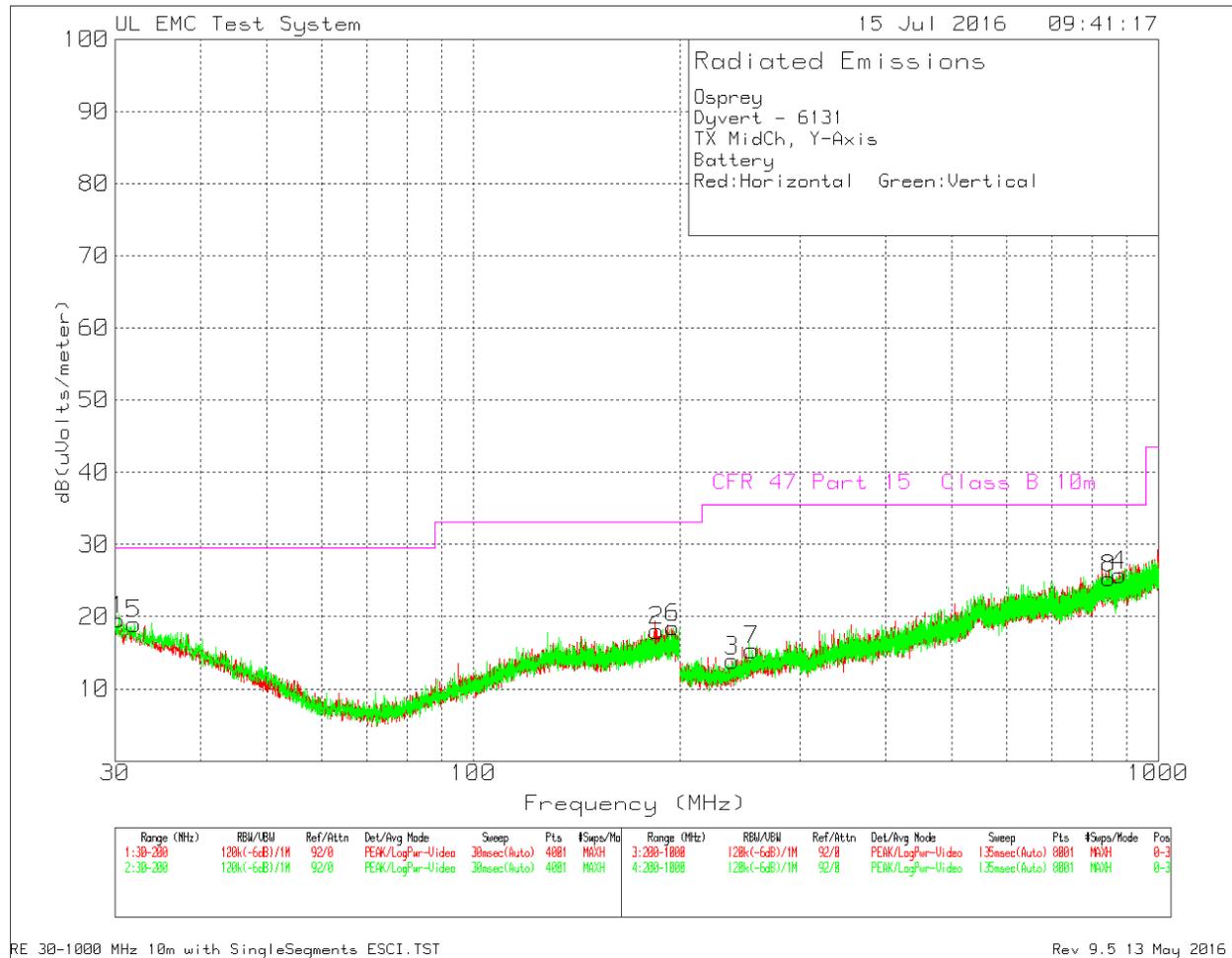
Osprey													
6131 - Dyvert													
Tx High Ch													
Y Axis													
Trace Markers													
Marker No.	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Peak Limit dBuV/m	Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
1	1.485	67.72	Pk	28.2	-56.02	39.9	74	-34.1	54	-14.1	0-360	100	H
2	2.48	101.16	Pk	22	-51.37	71.79	-	-	-	-	0-360	100	H
3	3.564	64.02	Pk	23.3	-50.47	36.85	74	-37.15	54	-17.15	0-360	150	H
4	4.958	70.66	Pk	27.8	-49.98	48.48	74	-25.52	54	-5.52	0-360	148	H
5	10.655	57.29	Pk	36.4	-46.87	46.82	74	-27.18	54	-7.18	0-360	150	H
6	13.939	46.36	Pk	39.9	-42.89	43.37	74	-30.63	54	-10.63	0-360	150	H
7	21.597	54.07	Pk	40.3	-45.86	48.51	74	-25.49	54	-5.49	0-360	100	H
8	1.823	66.16	Pk	30.4	-54.69	41.87	74	-32.13	54	-12.13	0-360	150	V
9	2.479	105.17	Pk	22	-51.37	75.8	-	-	-	-	0-360	150	V
10	3.458	64.12	Pk	23.5	-50.65	36.97	74	-37.03	54	-17.03	0-360	150	V
11	4.958	71.18	Pk	27.8	-49.98	49	74	-25	54	-5	0-360	100	V
12	7.383	57.81	Pk	31.1	-46.71	42.2	74	-31.8	54	-11.8	0-360	100	V
13	9.223	58.83	Pk	36.4	-47.83	47.4	74	-26.6	54	-6.6	0-360	150	V
14	15.231	43.82	Pk	39.9	-40.95	42.77	74	-31.23	54	-11.23	0-360	150	V
15	21.538	53.41	Pk	40.3	-46.12	47.59	74	-26.41	54	-6.41	0-360	100	V
Pk - Peak detector													
Radiated Emission Data													
	Test Frequency (GHz)	Meter Reading (dBuV)	Detector	Antenna Factor dB/m	Path Factor dB	Level dBuV/m	Peak Limit dBuV/m	Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth [Degs]	Height [cm]	Polarity
	4.9578	72.13	Pk	27.8	-49.98	49.95	74	-24.05	54	-4.05	201	233	H
	4.9579	72.06	Pk	27.8	-49.98	49.88	74	-24.12	54	-4.12	274	100	V
Pk - Peak detector													

7.2.5. WORST-CASE BELOW 1 GHz

Radiated Emissions 30MHz – 1GHz Low Channel



Radiated Emissions 30MHz – 1GHz Middle Channel



Radiated Emissions 30MHz – 1GHz High Channel

