

FCC 47 CFR PART 15 SUBPART C CLASS II PERMISSIVE CHANGE

FOR

BLUETOOTH MODULE

MODEL NUMBER: BT301

FCC ID: YRWDATECSBT301

REPORT NUMBER: 11477761-E2V3

ISSUE DATE: 03/15/2017

Prepared for DATECS Ltd.

DEPARTMENT OF INNOVATIVE TECHNOLOGIES 4 "Datecs" Str.

1592 SOFIA, BULGARIA

Prepared by

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	02/23/17	Initial Issue	D. Coronia
V2	02/24/17	Added Section 8.4 composite system radiated emissions	D. Coronia
V3	03/15/17	Updated Section 8.3	D. Coronia

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: DATECS Ltd.

DEPARTMENT OF INNOVATIVE TECHNOLOGIES

4 "Datecs" Str.

1592 SOFIA, BULGARIA

EUT DESCRIPTION: Bluetooth Module

MODEL: BT301

SERIAL NUMBER: MAR000081UN1116

DATE TESTED: January 3, 2017 to February 22, 2017

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC PART 15 SUBPART C **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, or any agency of the U.S. Government.

Approved & Released For

UL Verification Services Inc. By:

Prepared By:

DAN CORONIA PROJECT LEAD

UL Verification Services Inc.

LIONEL LARA

WISE LAB ENGINEER **UL Verification Services Inc**

Sionel Lara

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.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

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 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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB - 26.9 dB = 28.9 dBuV/m

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 a Bluetooth module. Voice capability is supported.

5.2. MAXIMUM OUTPUT POWER

Please refer to report no.: JQA Report no. 400-140056 FCCID YRWDATECSBT301 for output power results.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a chip antenna, with a maximum gain of - 2.0 dBi.

5.4. SOFTWARE AND FIRMWARE

The EUT driver software installed during testing was FTDI, rev. 2.8.28.0. The test utility software used during testing was RF Test Tool, rev. 1.2.2.

5.5. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

Original Filing was for Limited Modular Approval. Only worst-case mode was tested based on original *Report no. 400-140056* installed in new host sleeve (Model: InfineaX-M).

The GFSK mode was considered as worst-case mode and only radiated emission was performed. Please see section 8 for Radiated Test Results.

5.6. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that the Y-orientation was the worst-case orientation, therefore, all final radiated testing was performed with the EUT in the Y-orientation while generating continuous emissions.

DESCRIPTION OF TEST SETUP 5.7.

SUPPORT EQUIPMENT

Support Equipment List									
Description Manufacturer Model Serial Number FCC ID									
Laptop	Lenovo	T420	PB-FBKHK 12/07	-					
AC/DC Adapter	Lenovo	ADLX65NCC2A	-	-					

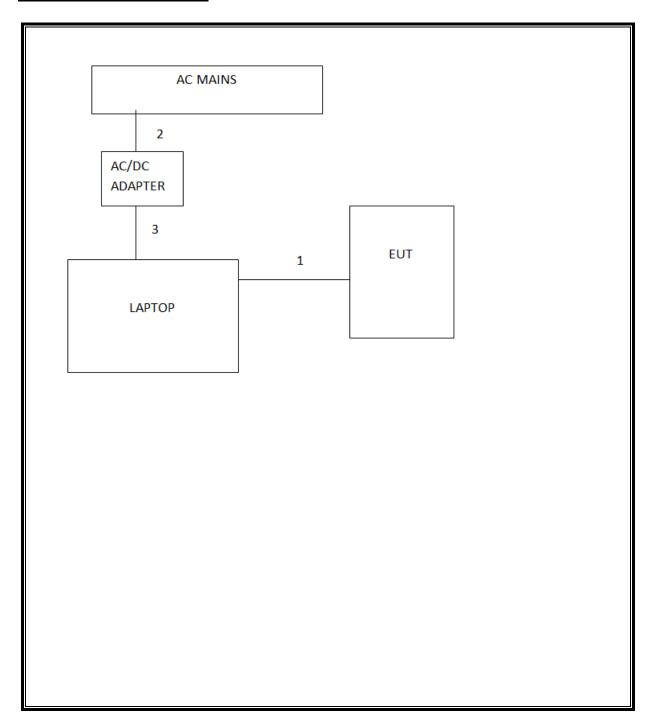
I/O CABLES

	I/O Cable List										
C	able	Port	Cable Length	Remarks							
٨	lo ports		ports	Туре		(m)					
	1	USB	1	USB	Unshielded	1	EUT to Laptop				
	2	AC Power	1	AC	Unshielded	1					
3		DC Power	1	DC	Unshielded	1					

TEST SETUP

The EUT is connected to the laptop through USB cable. Test software exercised the EUT.

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 E	quipment List			
Description	Manufacturer	Model	T No.	Cal Date	Cal Due
Spectrum Analzer 44GHz	Agilent	N9030A	908	04/13/16	04/13/17
Loop Antenna	EMCO	6502	35	03/24/16	03/24/17
Bilog Antenna 30-1000MHz	Sunol	JB1	899	05/26/16	05/26/17
Horn Antenna 1-18GHz	ETS Lindgren	3117	345	03/07/16	03/07/17
Horn Antenna 18-26GHz	ARA	MWH-1826/B	449	05/26/16	05/26/17
Preamp 10kHz-1000MHz	Sonoma	310	300	11/10/16	11/10/17
Amplifier, 1 to 18 GHz	Miteq	AFS43-00101800-25-S-42	493	03/09/16	03/09/17
Preamp 1-26.5GHz	Agilent	8449B	404	07/05/16	07/05/17
Radiated Software					

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7. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

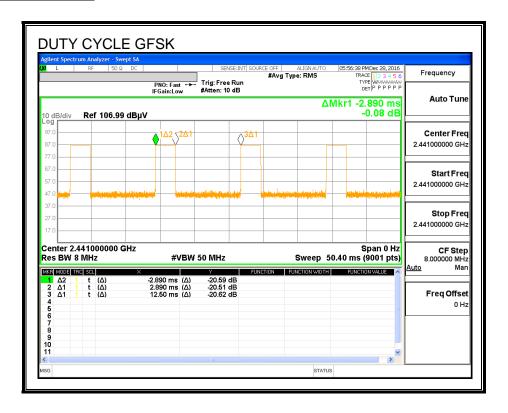
PROCEDURE

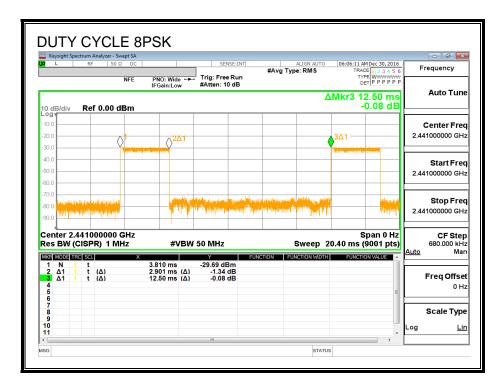
KDB 558074 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time	Period	Duty Cycle	Duty	Duty Cycle	1/B
	В		х	Cycle	Correction Factor	Minimum VBW
	(msec)	(msec)	(linear)	(%)	(dB)	(kHz)
GFSK	2.890	12.500	0.231	23.12%	6.36	0.346
8PSK	2.901	12.500	0.232	23.21%	6.34	0.345

DUTY CYCLE PLOTS





8. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300m	2400/F(kHz) @ 300m
0.490-1.705	24000/F(kHz) @ 30m	24000/F(kHz) @ 30m
1.705-30.0	30 @ 30m	30 @ 30m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

NOTE: KDB 937606 OATS and Chamber Correlation Justification

- Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T (10 Hz) video bandwidth with peak detector for average measurements.

Note: The pre-scan measurements above 1GHz the VBW is set to 30 kHz

The spectrum from 9 kHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

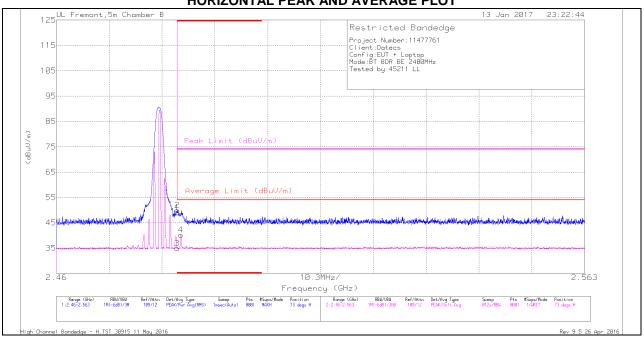
RESULTS

8.1. TRANSMITTER ABOVE 1 GHz

8.1.1. BASIC DATA RATE GFSK MODULATION

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

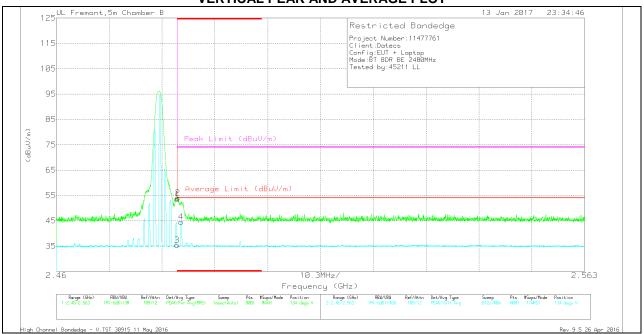
Marker	Frequency	Meter	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pa	Corrected	Average Limit	Margin	Peak Limit	PK Margin	Azimuth	Height	Polarity
	(GHz)	Reading			d (dB)	Reading	(dBuV/m)	(dB)	(dBuV/m)	(dB)	(Degs)	(cm)	
		(dBuV)				(dBuV/m)							
1	* 2.484	39.02	Pk	32.3	-22.3	49.02	-	-	74	-24.98	73	102	Н
2	* 2.484	39.96	Pk	32.3	-22.3	49.96	-	-	74	-24.04	73	102	Н
3	* 2.484	24.93	VA1T	32.3	-22.3	34.93	54	-19.07	-	-	73	102	Н
4	* 2.484	30.29	VA1T	32.3	-22.3	40.29	54	-13.71	-	-	73	102	Н

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

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency	Meter	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pa	Corrected	Average Limit	Margin	Peak Limit	PK Margin	Azimuth	Height	Polarity
	(GHz)	Reading			d (dB)	Reading	(dBuV/m)	(dB)	(dBuV/m)	(dB)	(Degs)	(cm)	
		(dBuV)				(dBuV/m)							
1	* 2.484	43.54	Pk	32.3	-22.3	53.54	-	-	74	-20.46	134	160	٧
2	* 2.484	44.01	Pk	32.3	-22.3	54.01	-	-	74	-19.99	134	160	V
3	* 2.484	25.35	VA1T	32.3	-22.3	35.35	54	-18.65	-	-	134	160	V
4	* 2.484	34.54	VA1T	32.3	-22.3	44.54	54	-9.46	-		134	160	V

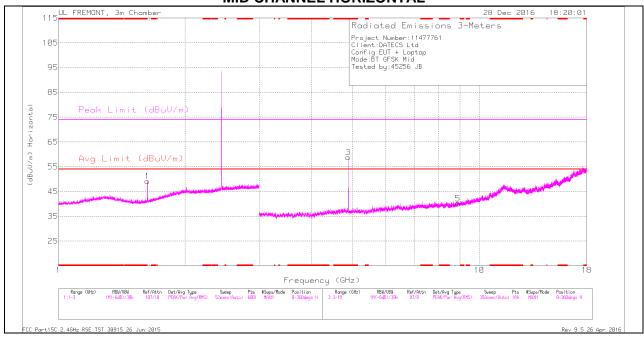
^{* -} indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

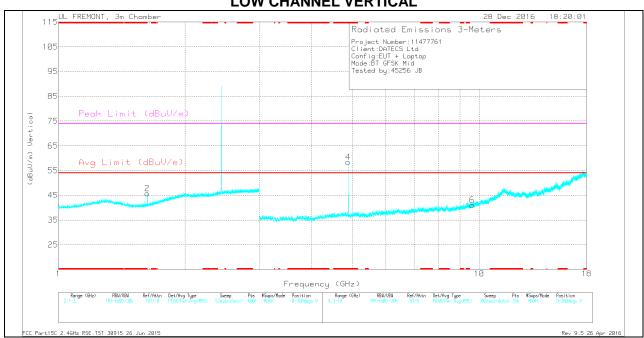
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL

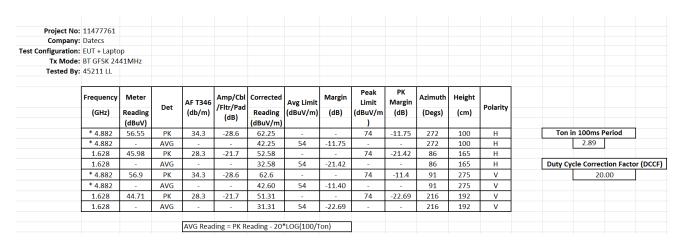


LOW CHANNEL VERTICAL



DATE: 03/15/2017

MID CHANNEL DATA

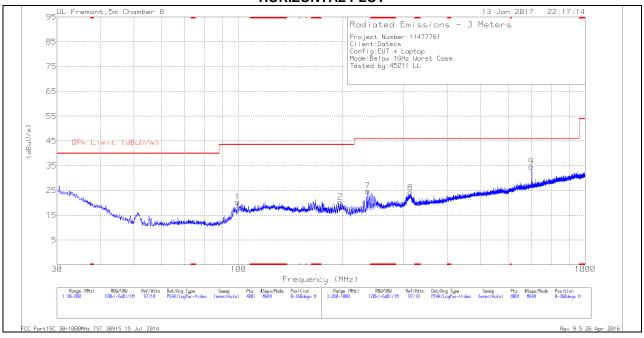


Note: All other emissions up to 26GHz were at noise floor level.

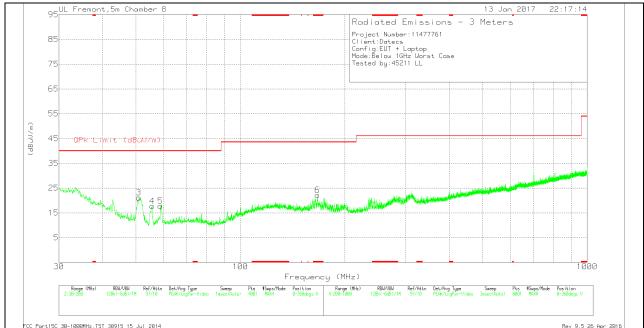
8.2. WORST-CASE BELOW 1 GHz

GFSK SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)





VERTICAL PLOT



REPORT NO: 11477761-E2V3 FCC ID: YRWDATECSBT301

BELOW 1 GHz TABLE

Trace Markers

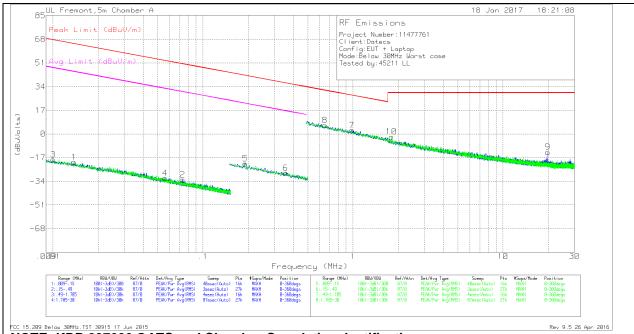
Marker	Frequency	Meter	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Corrected	QPk Limit (dBuV/m)	Margin	Azimuth	Height	Polarity
	(MHz)	Reading				Reading		(dB)	(Degs)	(cm)	
		(dBuV)				(dBuV/m)					
6	* 166.9775	33.72	Pk	15.9	-27.4	22.22	43.52	-21.3	0-360	100	V
3	50.9525	38	Pk	11.7	-28.6	21.1	40	-18.9	0-360	100	V
4	55.7125	35.09	Pk	11.2	-28.6	17.69	40	-22.31	0-360	100	V
5	58.815	34.99	Pk	11.3	-28.6	17.69	40	-22.31	0-360	100	V
1	99.53	34.38	Pk	14.2	-28.2	20.38	43.52	-23.14	0-360	300	Н
2	196.9825	31.36	Pk	16.2	-27.1	20.46	43.52	-23.06	0-360	100	Н
7	236.2	36.18	Pk	15.3	-26.7	24.78	46.02	-21.24	0-360	100	Н
8	313.3	32.6	Pk	17.7	-26.1	24.2	46.02	-21.82	0-360	100	Н
9	699.8	35.86	Pk	24.1	-25.4	34.56	46.02	-11.46	0-360	400	Н

 $^{^{\}star}$ - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

DATE: 03/15/2017

WORST-CASE BELOW 30 MHz 8.3.

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



NOTE: KDB 937606 OATS and Chamber Correlation Justification

- Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.01004	43.4	Pk	18	.1	-80	-18.5	67.57	-86.07	47.57	-66.07	0-360
1	.01383	43.32	Pk	16.4	.1	-80	-20.18	64.79	-84.97	44.79	-64.97	0-360
4	.05594	36.91	Pk	11.2	.1	-80	-31.79	52.65	-84.44	32.65	-64.44	0-360
2	.07321	36.22	Pk	10.9	.1	-80	-32.78	50.31	-83.09	30.31	-63.09	0-360
5	.19208	47.87	Pk	10.8	.1	-80	-21.23	41.93	-63.16	21.93	-43.16	0-360
6	.35558	41.14	Pk	10.7	.1	-80	-28.06	36.59	-64.65	16.59	-44.65	0-360
8	.65085	35.53	Pk	10.6	.1	-40	6.23	31.33	-25.1	-	-	0-360
7	.98613	31.71	Pk	10.7	.2	-40	2.61	27.73	-25.12	-	-	0-360
10	1.80351	26.98	Pk	10.8	.2	-40	-2.02	29.54	-31.56	-	-	0-360
9	19.85217	16.11	Pk	10.1	.7	-40	-13.09	29.54	-42.63	-	-	0-360

Pk - Peak detector

FORM NO: CCSUP4701I

8.4. SPURIOUS RADIATED EMISSION OF COMPOSITE SYSTEM

LIMITS

FCC: §15.209

Section CFR 47 15.31 (h)

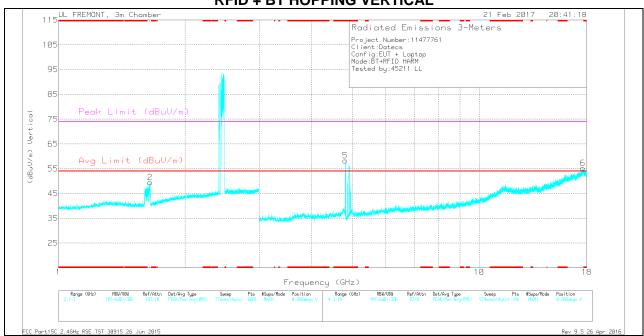
RESULTS

HARMONICS AND SPURIOUS EMISSIONS

RFID + BT HOPPING HORIZONTAL



RFID + BT HOPPING VERTICAL



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REPORT NO: 11477761-E2V3 FCC ID: YRWDATECSBT301

RFID + BT HOPPING DATA

Trace Markers

Marker	Frequency	Meter	Det	AF T712 (dB/m)	Amp/Cbl/Fltr/Pad	Corrected	Avg Limit	Margin	Peak Limit	PK Margin	Azimuth	Height	Polarity
	(GHz)	Reading			(dB)	Reading	(dBuV/m)	(dB)	(dBuV/m)	(dB)	(Degs)	(cm)	
		(dBuV)				(dBuV/m)							
3	* 4.902	52.63	Pk	34	-27.9	58.73		-	74	-15.27	0-360	200	Н
5	* 4.808	51.74	Pk	34	-27.5	58.24		-	74	-15.76	0-360	200	V
2	1.652	42.69	Pk	28.6	-21.7	49.59		-	-		0-360	100	V
1	1.653	40.45	Pk	28.6	-21.7	47.35		-	-		0-360	100	Н
6	17.638	25.2	Pk	41.4	-11.3	55.3	-	-	-	-	0-360	200	V
4	17.688	25.01	Pk	41.4	-11.2	55.21	-	-	-	-	0-360	100	Н

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

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
	(dBuV)				(dBuV/m)							
* 1.626	36.44	VA1T	28.4	-21.7	43.14	54	-10.86	-	-	85	145	٧
* 4.808	57.72	PKFH	34	-27.5	64.22	-	-	74	-9.78	169	101	Н
* 4.926	42.83	VA1T	34	-28	48.83	54	-5.17	-	-	169	101	Н
* 4.804	56.47	PKFH	34	-27.6	62.87	-	-	74	-11.13	312	100	V
* 4.816	41.56	VA1T	34	-27.6	47.96	54	-6.04	-	-	312	100	V
1.627	34.83	VA1T	28.5	-21.7	41.63	-	-	-	-	337	127	Н
1.631	45.37	PKFH	28.5	-21.7	52.17	-	-	-	-	85	145	V
1.635	43.97	PKFH	28.5	-21.7	50.77	-	-	-	-	337	127	Н
17.637	19.12	VA1T	41.4	-11.3	49.22	-	-	-	-	21	174	V
17.639	31.6	PKFH	41.4	-11.3	61.7	-	-	-	-	21	174	V
17.689	18.95	VA1T	41.4	-11.2	49.15	-	-	-	-	227	140	Н
17.69	30.86	PKFH	41.4	-11.2	61.06	-	-	-	-	227	140	Н

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

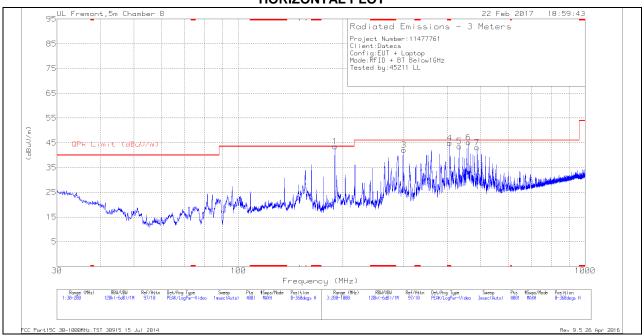
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

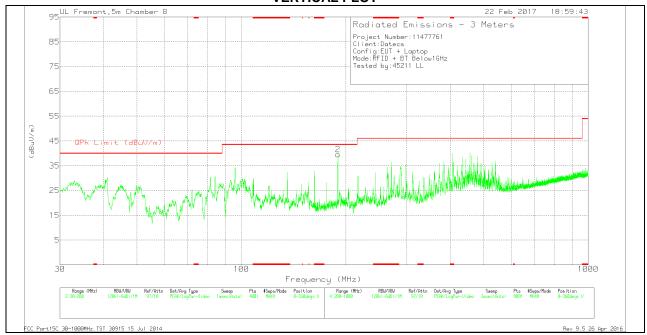
DATE: 03/15/2017

RFID + BT HOPPING SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)

HORIZONTAL PLOT



VERTICAL PLOT



BELOW 1 GHz TABLE

Trace Markers

Marker	Frequency	Meter	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Corrected	QPk Limit (dBuV/m)	Margin	Azimuth	Height	Polarity
	(MHz)	Reading				Reading		(dB)	(Degs)	(cm)	
		(dBuV)				(dBuV/m)					
4	* 406.8	50.99	Pk	19.8	-25.9	44.89	46.02	-1.13	0-360	100	Н
1	189.8425	55.08	Pk	15.3	-26.9	43.48	43.52	04	0-360	100	Н
2	189.8425	51.15	Pk	15.3	-26.9	39.55	43.52	-3.97	0-360	100	V
3	300.1	50.66	Pk	17.4	-25.9	42.16	46.02	-3.86	0-360	100	Н
5	433.9	48.96	Pk	20.6	-26	43.56	46.02	-2.46	0-360	100	Н
6	461	49.92	Pk	21	-25.8	45.12	46.02	9	0-360	200	Н
7	488.2	47.22	Pk	21.7	-25.8	43.12	46.02	-2.9	0-360	200	Н

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

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 406.823	46.75	Qp	19.8	-25.9	40.65	46.02	-5.37	314	101	Н
189.8463	50.42	Qp	15.3	-26.9	38.82	43.52	-4.7	9	102	V
189.8511	54.38	Qp	15.3	-26.9	42.78	43.52	74	195	111	Н
300.2622	36.39	Qp	17.4	-25.9	27.89	46.02	-18.13	345	140	Н
433.9547	47.61	Qp	20.6	-26	42.21	46.02	-3.81	125	235	Н
461.0586	46.91	Qp	21	-25.8	42.11	46.02	-3.91	300	208	Н
488.1856	44.92	Qp	21.7	-25.8	40.82	46.02	-5.2	101	180	Н

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

Qp - Quasi-Peak detector

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