

TEST REPORT

Test Report No.: UL-RPT-RP11056025JD01A V2.0

Manufacturer : Drayson Technologies (Europe) Limited

Model No. : CS_Tag1

FCC ID : 2AG7Q-CS-TAG1

Technology : Bluetooth – Low Energy

Test Standard(s) : FCC Parts 15.207, 15.209(a) & 15.247

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- 2. The results in this report apply only to the sample(s) tested.
- 3. The sample tested is in compliance with the above standard(s).
- 4. The test results in this report are traceable to the national or international standards.

5. Version 2.0 supersedes all previous versions.

Date of Issue: 29 January 2016

Checked by:

Sarah Williams

Engineer, Radio Laboratory

Company Signatory:

Steven White Service Lead, Radio Laboratory

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1. Customer Information

Company Name:	Drayson Technologies (Europe) Limited
Address:	2 Queen Caroline Street London W6 9DX United Kingdom

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2. Summary of Testing

2.1. General Information

Specification Reference:	47CFR15.247	
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) – Section 15.247	
Specification Reference:	47CFR15.209	
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications): Part 15 Subpart C (Intentional Radiators) – Section 15.209	
Site Registration:	209735	
Location of Testing:	UL VS LTD, Unit 3 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom	
Test Dates:	04 January 2016 to 15 January 2016	

2.2. Summary of Test Results

FCC Reference (47CFR)	Measurement	Result
Part 15.247(a)(2)	Transmitter Minimum 6 dB Bandwidth	②
Part 15.247(e)	Transmitter Power Spectral Density	Note 1
Part 15.247(b)(3)	Transmitter Maximum Peak Output Power	Ø
Part 15.247(d)/15.209(a)	Transmitter Radiated Emissions	②
Part 15.247(d)/15.209(a) Transmitter Band Edge Radiated Emissions		②
Key to Results		•
= Complied = Did no	ot comply	

Note(s):

1. In accordance with FCC KDB 558074 Section 10.1, PSD is not required if the maximum conducted output power is less than the PSD limit of 8 dBm / 3 kHz. The PSD level is therefore deemed to be equal to the measured total output power.

2.3. Methods and Procedures

Reference:	ANSI C63.10-2013
Title:	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Reference:	KDB 558074 D01 v03r04 January 7, 2016
Title:	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

2.4. Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

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3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

Brand Name:	CleanSpace Tag
Model Name or Number:	CS_Tag1
Test Sample Serial Number:	CS_Tag0000042C (Radiated sample)
Hardware Version:	GPH-15-0029-04
Software Version:	1.6
FCC ID:	2AG7Q-CS-TAG1

Brand Name:	CleanSpace Tag
Model Name or Number:	CS_Tag1
Test Sample Serial Number:	CS_Tag0000042D (Conducted sample with RF port)
Hardware Version:	GPH-15-0029-04
Software Version:	1.6
FCC ID:	2AG7Q-CS-TAG1

3.2. Description of EUT

The equipment under test was a Personal Air Quality Sensor, which incorporated a *Bluetooth* Low Energy module.

3.3. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

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3.4. Additional Information Related to Testing

Technology Tested:	Bluetooth Low Energy (Digital Transmission System)		
Type of Unit:	Transceiver		
Channel Spacing:	2 MHz		
Modulation:	GFSK		
Data Rate:	1 Mbps		
Power Supply Requirement(s):	Nominal	3.7 VDC	
Maximum Conducted Output Power:	-9.2 dBm		
Antenna Gain:	3.0 dBi		
Transmit Frequency Range:	2402 MHz to 2480 MHz		
Transmit Channels Tested:	Channel ID	RF Channel	Channel Frequency (MHz)
	Bottom	0	2402
	Middle	19	2440
	Тор	39	2480

3.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	uEnergy USB SPI programmer
Brand Name:	CSR
Model Name or Number:	DK-USB-SPI-10225-1A
Serial Number:	334221

Description:	Ribbon cable
Brand Name:	Not marked or stated
Model Name or Number:	Not marked or stated
Serial Number:	Not marked or stated

Description:	USB cable
Brand Name:	Not marked or stated
Model Name or Number:	Not marked or stated
Serial Number:	Not marked or stated

Description:	Laptop PC
Brand Name:	Lenovo
Model Name or Number:	L440
Serial Number:	R9-019E9Z 14/04

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4. Operation and Monitoring of the EUT during Testing

4.1. Operating Modes

The EUT was tested in the following operating mode(s):

• Transmitting at maximum power in *Bluetooth* LE mode with modulation, maximum possible data length available and Pseudorandom Bit Sequence 9.

4.2. Configuration and Peripherals

The EUT was tested in the following configuration(s):

- Controlled using a CSR uEnergy software application on a UL laptop PC provided by the customer.
 The instructions on how to operate the EUT were provided and are in CS_Tag1-uEnergy_Test_App-Guideline_20160108.pptx. The application was used to enable continuous transmission and to select the test channels as required.
- The TX POWER setting was set to 2 on the test application.
- A test computer with the above mentioned software application was used to place the EUT into Bluetooth LE mode. The test computer was connected to an SPI programmer board via a USB cable. The SPI programmer board was connected to the EUT via a ribbon cable.
- The EUT was powered via the USB cable connected to the SPI programmer board.
- The test sample with serial number CS_Tag0000042D was used for 6 dB bandwidth and maximum peak output power tests.
- The test sample with serial number CS_Tag0000042C was used for all other tests.
- · For radiated measurements all active ports were terminated

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5. Measurements, Examinations and Derived Results

5.1. General Comments

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 6. Measurement Uncertainty for details.

In accordance with UKAS requirements all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

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5.2. Test Results

5.2.1. Transmitter Minimum 6 dB Bandwidth

Test Summary:

Test Engineer:	t Engineer: Georgios Vrezas		14 January 2016
Test Sample Serial Number:	CS_Tag0000042D		

FCC Reference:	Part 15.247(a)(2)
Test Method Used:	FCC KDB 558074 Section 8.1 Option 1

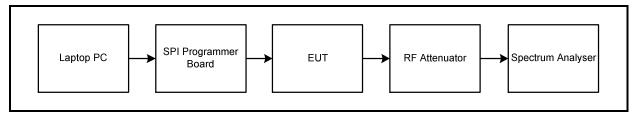
Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	33

Note(s):

- 1. 6 dB DTS bandwidth tests were performed using a spectrum analyser in accordance with KDB 558074 Section 8.1 Option 1 measurement procedure. The spectrum analyser resolution bandwidth was set to 100 kHz and video bandwidth 300 kHz. A peak detector was used, sweep time was set to auto and the trace mode was Max Hold. The DTS bandwidth was measured at 6 dB down from the peak of the signal.
- The spectrum analyser was connected to the RF port on the EUT using suitable attenuation and RF cable.

Test setup:

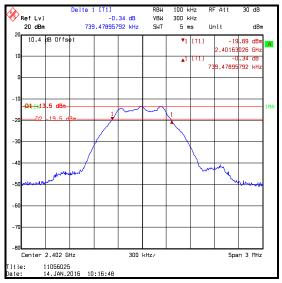


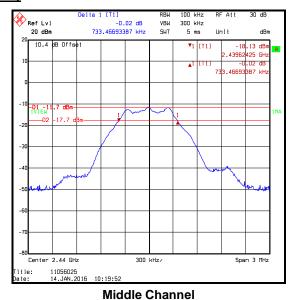
Results:

Channel	6 dB Bandwidth (kHz)	Limit (kHz)	Margin (kHz)	Result
Bottom	739.479	≥500	239.479	Complied
Middle	733.467	≥500	233.467	Complied
Тор	739.479	≥500	239.479	Complied

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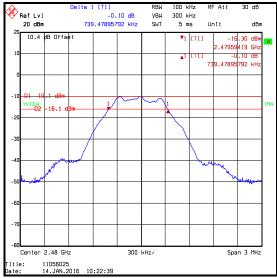
Transmitter Minimum 6 dB Bandwidth (continued)





Bottom Channel





Top Channel

Test Equipment Used:

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1659	Thermohygrometer	JM Handelspunkt	30.5015.13	None stated	23 Apr 2016	12
M127	Spectrum Analyser	Rohde & Schwarz	FSEB30	842659/016	11 Aug 2016	12
A1997	Attenuator	Huber + Suhner AG	6810.17.B	301749	Calibrated before use	-

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5.2.2. Transmitter Maximum Peak Output Power

Test Summary:

Test Engineer:	Georgios Vrezas	Test Date:	14 January 2016
Test Sample Serial Number:	CS_Tag0000042D		

FCC Reference:	Part 15.247(b)(3)
Test Method Used:	FCC KDB 558074 Section 9.1.1

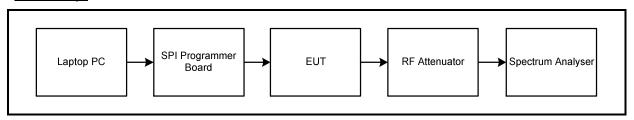
Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	33

Note(s):

- 1. Conducted power tests were performed using a spectrum analyser in accordance with KDB 558074 Section 9.1.1, *RBW* ≥ *DTS* bandwidth procedure.
- 2. The spectrum analyser resolution bandwidth was set to 1 MHz and video bandwidth of 3 MHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold. The span was set to 5 MHz. A marker was placed at the peak of the signal and the results recorded in the table below.
- 3. The spectrum analyser was connected to the RF port on the EUT using suitable attenuation and RF cable. An RF level offset was entered on the spectrum analyser to compensate for the loss of the attenuator and RF cable.
- 4. The conducted power was added to the declared antenna gain to obtain the EIRP.

Test setup:



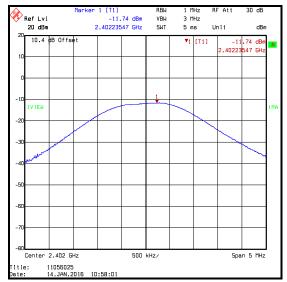
Results:

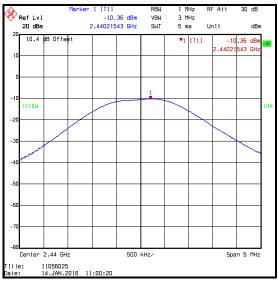
Channel	Conducted Peak Power (dBm)	Conducted Peak Power Limit (dBm)	Margin (dB)	Result
Bottom	-11.7	30.0	41.7	Complied
Middle	-10.4	30.0	40.4	Complied
Тор	-9.2	30.0	39.2	Complied

Channel	Conducted Peak Power (dBm)	Declared Antenna Gain (dBi)	EIRP (dBm)	De Facto EIRP Limit (dBm)	Margin (dB)	Result
Bottom	-11.7	3.0	-8.7	36.0	44.7	Complied
Middle	-10.4	3.0	-7.4	36.0	43.4	Complied
Тор	-9.2	3.0	-6.2	36.0	42.2	Complied

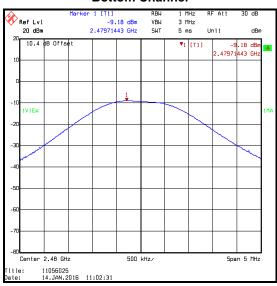
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Transmitter Maximum Peak Output Power (continued)





Bottom Channel



Middle Channel

Top Channel

Test Equipment Used:

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1659	Thermohygrometer	JM Handelspunkt	30.5015.13	None stated	23 Apr 2016	12
M127	Spectrum Analyser	Rohde & Schwarz	FSEB30	842659/016	11 Aug 2016	12
G085	Signal Generator	Hewlett Packard	83650L	3614A00104	11 Nov 2016	24
M1145	Power Meter	Hewlett Packard	437B	3737U26557	11 Aug 2016	12
M1175	Power Sensor	Hewlett Packard	8485A	2942A10299	11 Feb 2016	12
A1997	Attenuator	Huber + Suhner AG	6810.17.B	301749	Calibrated before use	-

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5.2.3. Transmitter Radiated Emissions

Test Summary:

Test Engineer:	Andrew Edwards	Test Date:	04 January 2016
Test Sample Serial Number:	nple Serial Number: CS_Tag0000042C		

FCC Reference: Parts 15.247(d) & 15.209(a)		
Test Method Used:	ANSI C63.10 Sections 6.3 and 6.5	
Frequency Range	30 MHz to 1000 MHz	

Environmental Conditions:

Temperature (°C):	22
Relative Humidity (%):	42

Note(s):

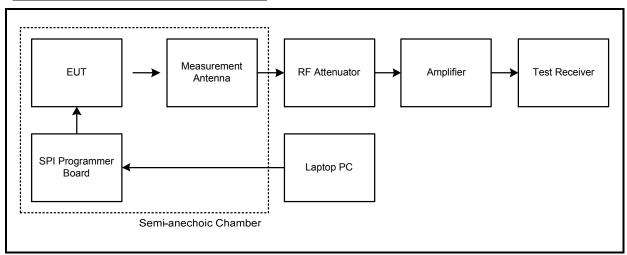
- 1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
- 2. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to the middle channel only.
- 3. All emissions shown on the pre-scans were investigated and found to be ambient, or > 20 dB below the appropriate limit, therefore the highest peak noise floor reading of the measuring receiver was recorded as shown in the table below.
- 4. Measurements below 1 GHz were performed in a semi-anechoic chamber (Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
- 5. Pre-scans were performed and markers placed on the highest measured levels. The test receiver resolution bandwidth was set to 100 kHz and video bandwidth 300 kHz. A peak detector was used, sweep time was set to auto and trace mode was Max Hold.
- 6. Final measurements were performed on the marker frequencies and the results entered into the table below. The test receiver resolution bandwidth was set to 120 kHz, using a CISPR quasi-peak detector and span big enough to see the whole emission.

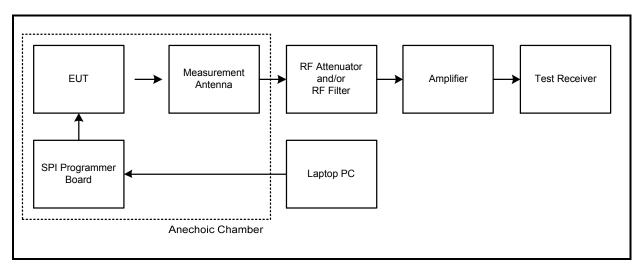
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Transmitter Radiated Emissions (continued)

Test setup for radiated measurements:



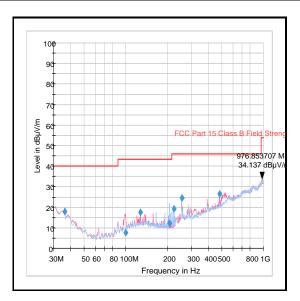


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Transmitter Radiated Emissions (continued)

Results: Middle Channel

Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBμV/m)	(dB)	
976.854	Vertical	34.1	54.0	19.9	Complied



Test Equipment Used:

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1945	Thermohygrometer	JM Handelspunkt	30.5015.01	0112	23 Apr 2016	12
K0001	5m RSE Chamber	Rainford EMC	N/A	N/A	19 Mar 2016	12
G0543	Amplifier	Sonoma	310N	230801	10 Feb 2016	3
M1273	Test Receiver	Rohde & Schwarz	ESIB26	100275	19 Mar 2016	12
A490	Antenna	Chase	CBL6111A	1590	30 Apr 2016	12
A1834	Attenuator	Hewlett Packard	8491B	10444	05 Mar 2016	12

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Transmitter Radiated Emissions (continued)

Test Summary:

Test Engineer:	Andrew Edwards	Test Date:	15 January 2016
Test Sample Serial Number:	CS_Tag0000042C		

FCC Reference:	Parts 15.247(d) & 15.209(a)
Test Method Used:	FCC KDB 558074 Sections 11 & 12 referencing ANSI C63.10 Sections 6.3 and 6.6
Frequency Range	1 GHz to 25 GHz

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	31

Note(s):

- 1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
- 2. All other emissions shown on the pre-scan plot were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
- 3. The emission shown on the 1 GHz to 4 GHz plot is the EUT fundamental.
- 4. Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number K0002) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 1.5 m above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
- 5. Pre-scans were performed and a marker placed on the highest measured level of the appropriate plot. The test receiver resolution bandwidth was set to 1 MHz and video bandwidth 3 MHz. The sweep time was set to auto.
- 6. *Emissions in restricted bands: In accordance with C63.10 section 6.6.4.3, Note 1, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

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Transmitter Radiated Emissions (continued)

Results: Peak / Bottom Channel

Frequency	Antenna	Peak Level	Average Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBμV/m)	(dB)	
4804.365	Horizontal	43.8*	54.0	10.2	Complied

Results: Peak / Middle Channel

Frequency (MHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
2487.925	Vertical	52.3*	54.0	1.7	Complied
4880.702	Vertical	45.9*	54.0	8.1	Complied
7320.925	Vertical	55.5	74.0	18.5	Complied

Results: Average / Middle Channel

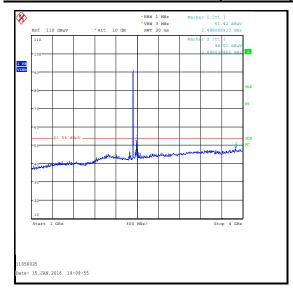
Frequency	Antenna	Level	Limit	Margin	Result
(MHz)	Polarity	(dBμV/m)	(dBμV/m)	(dB)	
7320.000	Vertical	50.8	54.0	3.2	Complied

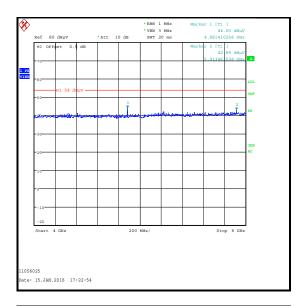
Results: Peak / Top Channel

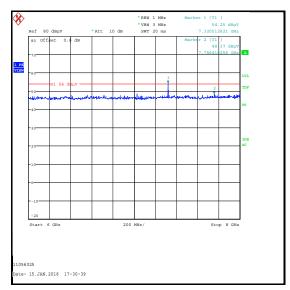
Frequency (MHz)	Antenna Polarity	Peak Level (dBμV/m)	Average Limit (dBμV/m)	Margin (dB)	Result
4959.279	Vertical	44.9*	54.0	9.1	Complied
7439.055	Horizontal	51.9*	54.0	2.1	Complied

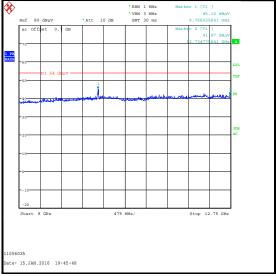
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Transmitter Radiated Emissions (continued)



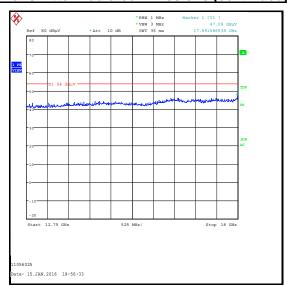


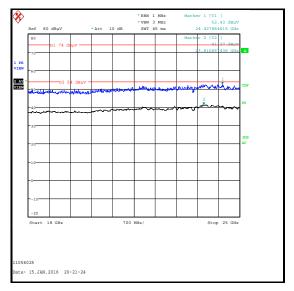




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Transmitter Radiated Emissions (continued)





Note: The above plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Test Equipment Used:

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1656	Thermohygrometer	JM Handelspunkt	30.5015.13	None stated	23 Apr 2016	12
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	21 Dec 2016	12
M1874	Test Receiver	Rohde & Schwarz	ESU26	100553	12 Jun 2016	12
A1534	Pre Amplifier	Hewlett Packard	8449B	3008A00405	19 Dec 2016	12
A1818	Antenna	EMCO	3115	00075692	17 Dec 2016	12
A253	Antenna	Flann Microwave	12240/20	128	17 Dec 2016	12
A254	Antenna	Flann Microwave	14240-20	139	17 Dec 2016	12
A255	Antenna	Flann Microwave	16240-20	519	17 Dec 2016	12
A256	Antenna	Flann Microwave	18240-20	400	17 Dec 2016	12
A436	Antenna	Flann Microwave	20240-20	330	19 Dec 2016	12
A1975	High Pass Filter	AtlanTecRF	AFH-03000	090424010	17 Apr 2016	12

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5.2.4. Transmitter Band Edge Radiated Emissions

Test Summary:

Test Engineer:	Andrew Edwards	Test Date:	15 January 2016
Test Sample Serial Number:	CS_Tag0000042C		

FCC Reference:	Parts 15.247(d) & 15.209(a)
Test Method Used:	ANSI C63.10 Section 6.10.4, 6.10.5 & KDB 558074 Section 11

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	30

Note(s):

- 1. The final measured value, for the given emission, in the table below incorporates the calibrated antenna factor and cable loss.
- 2. The maximum peak conducted output power was previously measured. In accordance with FCC KDB 558074 Section 11.1(a), the lower band edge measurement was performed with a peak detector and the -20 dBc limit applied.
- 3. There is a restricted band 10 MHz below the lower band edge. The test receiver was set up as follows: the RBW set to 1 MHz, the VBW set to 3 MHz, with the sweep time set to auto couple. Peak and average measurements were performed with their respective detectors. Markers were placed on the highest point on each trace.
- 4. * -20 dBc limit.

Results: Peak

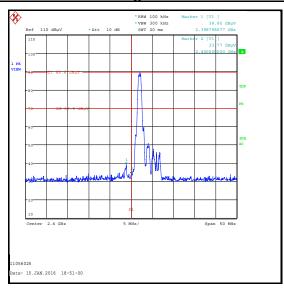
Frequency (MHz)	Level (dB _µ V/m)	Limit (dBμV/m)	Margin (dB)	Result
2354.103	46.1	74.0	27.9	Complied
2398.798	38.9	69.6*	30.7	Complied
2400.0	33.8	69.6*	35.8	Complied
2483.5	52.4	74.0	21.6	Complied

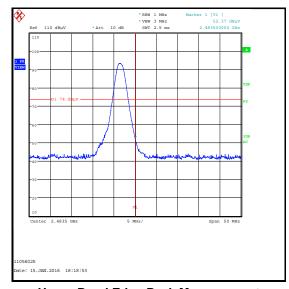
Results: Average

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
2354.103	39.6	54.0	14.4	Complied
2483.5	50.0	54.0	4.0	Complied

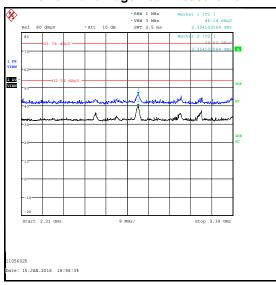
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Transmitter Band Edge Radiated Emissions (continued)

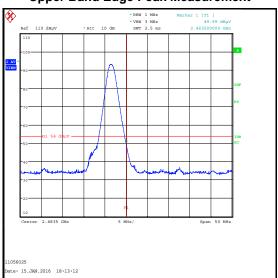




Lower Band Edge Peak Measurement



Upper Band Edge Peak Measurement



2310 MHz to 2390 MHz Restricted Band Plot

Upper Band Edge Average Measurement

Test Equipment Used:

Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1656	Thermohygrometer	JM Handelspunkt	30.5015.13	None stated	23 Apr 2016	12
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	21 Dec 2016	12
A1534	Pre Amplifier	Hewlett Packard	8449B	3008A00405	19 Dec 2016	12
M1874	Test Receiver	Rohde & Schwarz	ESU26	100553	12 Jun 2016	12
A1818	Antenna	EMCO	3115	00075692	17 Dec 2016	12

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6. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value measured (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
Conducted Maximum Peak Output Power	2.4 GHz to 2.4835 GHz	95%	±1.13 dB
Minimum 6 dB Bandwidth	2.4 GHz to 2.4835 GHz	95%	±3.92 %
Radiated Spurious Emissions	30 MHz to 1 GHz	95%	±5.65 dB
Radiated Spurious Emissions	1 GHz to 26.5 GHz	95%	±2.94 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

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7. Report Revision History

Version	Revision Details		
Number	Page No(s)	Clause	Details
1.0	-	-	Initial Version
2.0	-	-	Section 3.1 updated

⁻⁻⁻ END OF REPORT ---

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